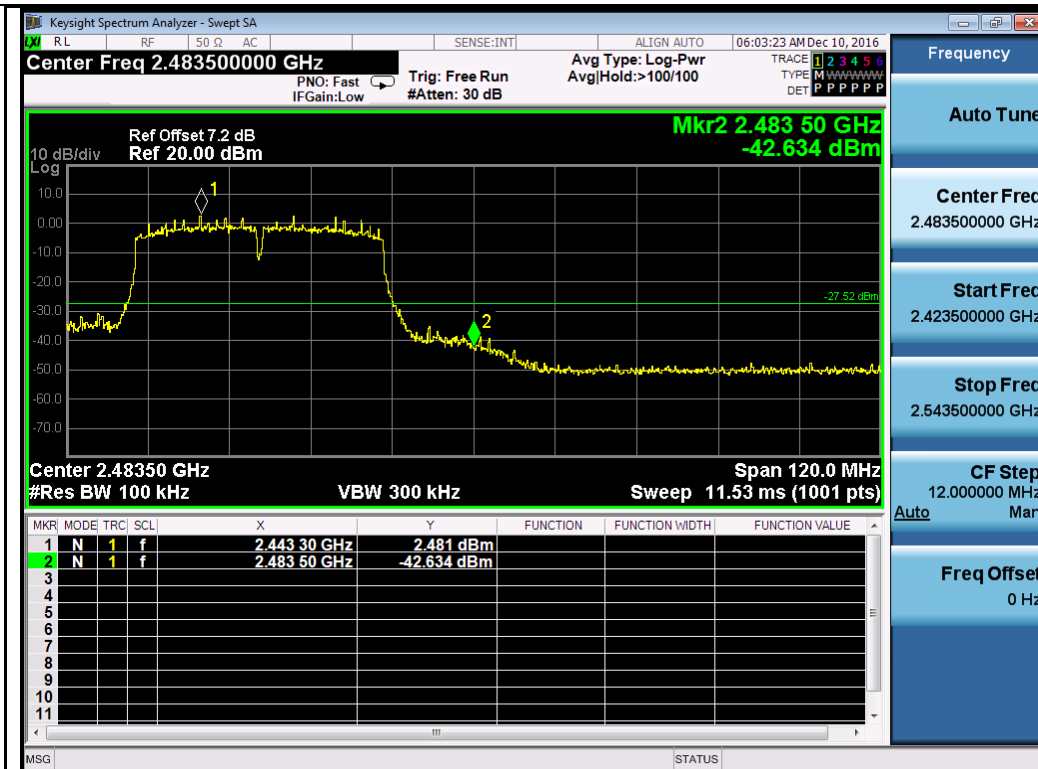
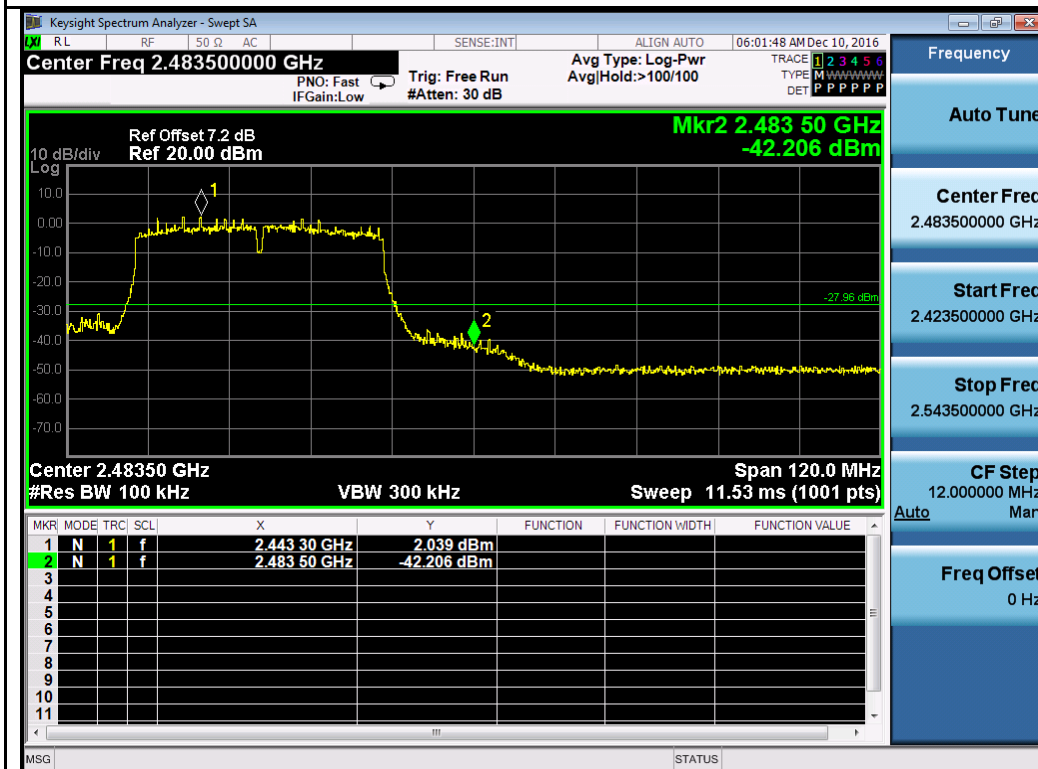
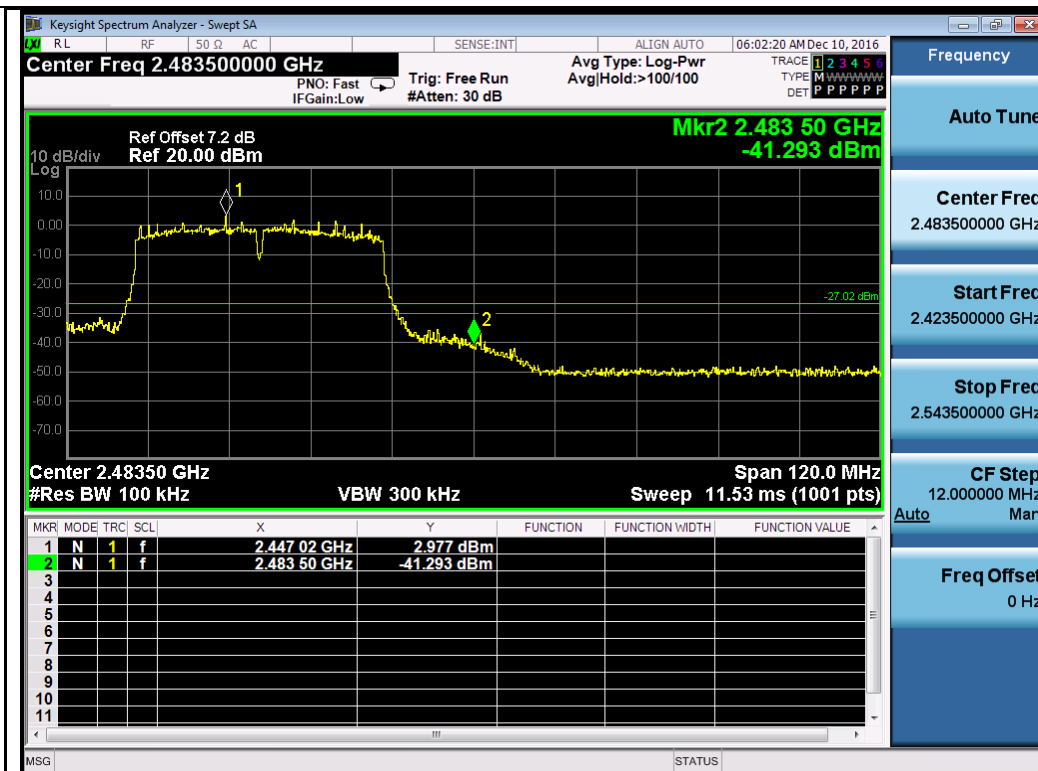




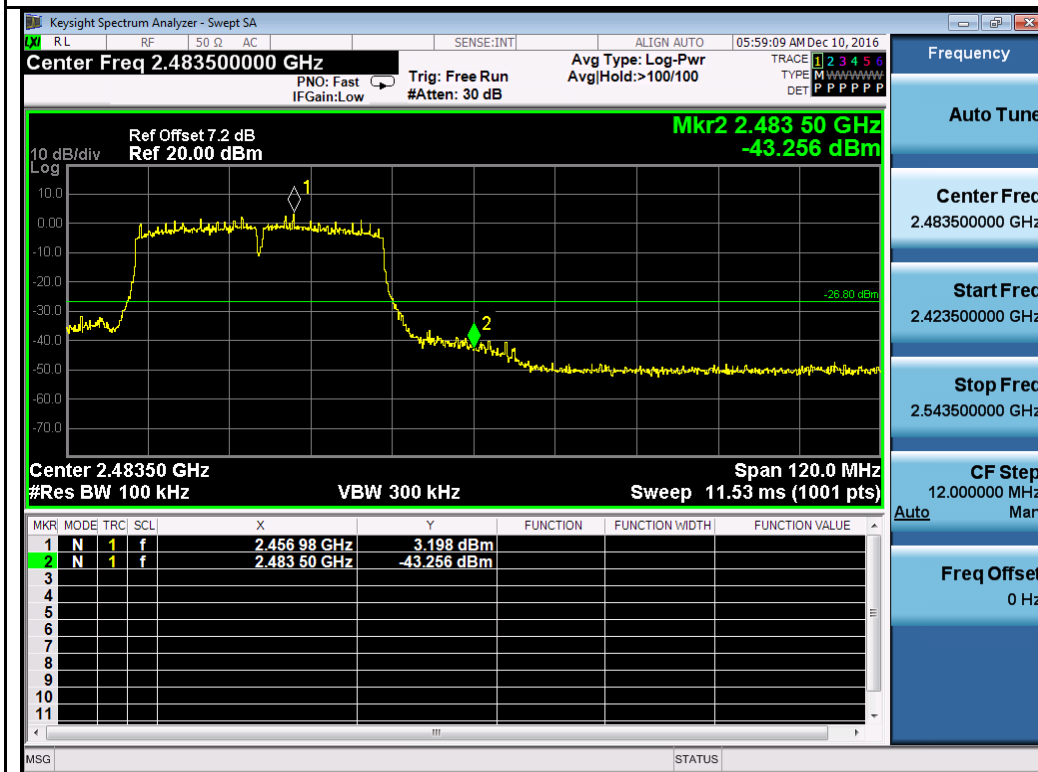
802.11n-HT40-2452MHz Chain 1



802.11n-HT40-2452MHz Chain 2



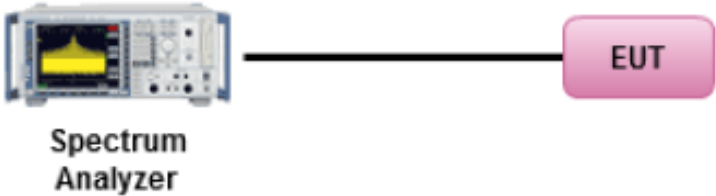
802.11n-HT40-2452MHz Chain 3



802.11n-HT40-2452MHz Chain 4

10.5 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	12/09/2016	Environmental condition	Temperature 22°C Relative Humidity 46% Atmospheric Pressure 1020mbar
Remark	Per KDB 662911 D01 Multiple Transmitter Output v02r01, the direction gain for horizontal polarization and vertical polarization is calculated separately. For 2.4GHz band, peak antenna gain = 2.5 dBi, directional gain = 5.5 dB. Highest of total directional gain is 5.5 dBi. The power limit and PSD limit will be reduced by amount of 0 dB.		
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

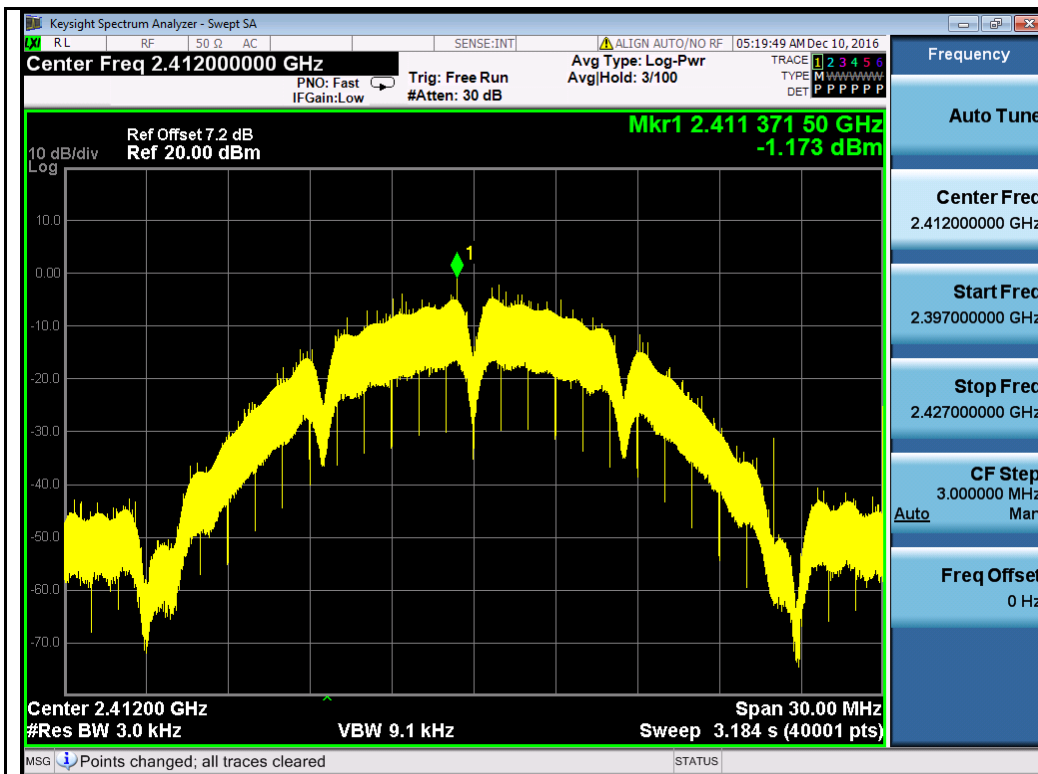
Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Shuo Zhang at RF test site.

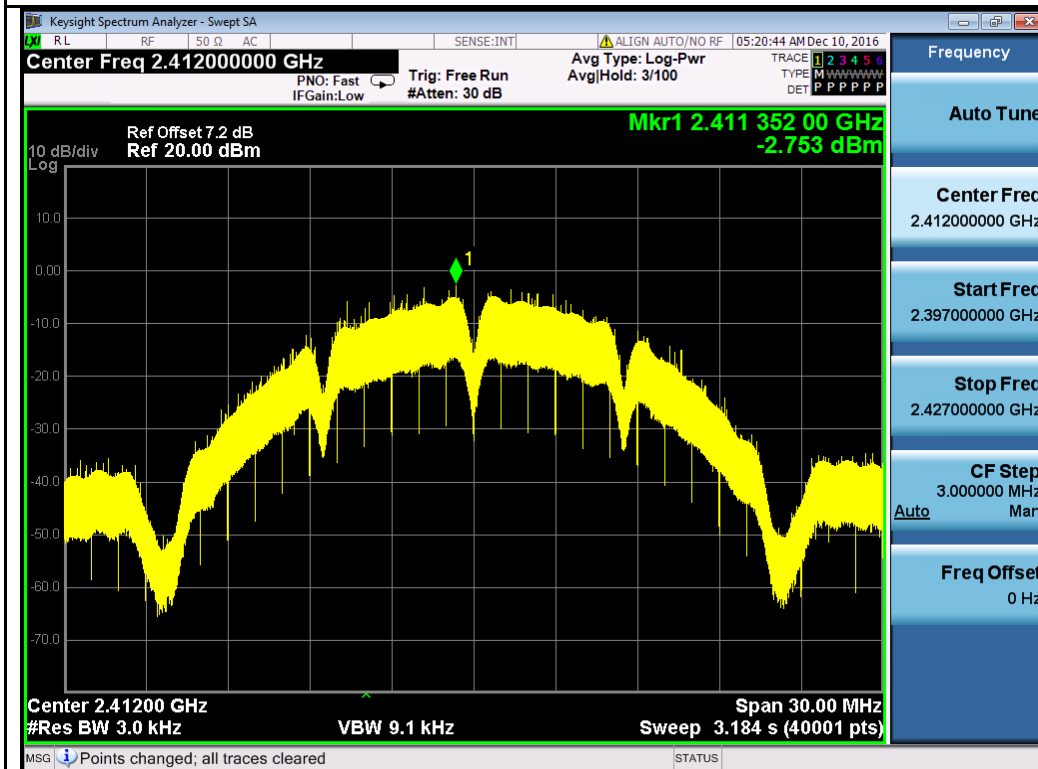
PSD measurement results

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/3KHz)					Limit (dBm/3KHz)	Result
				Chain1	Chain2	Chain3	Chain4	Combine		
PSD	802.11b	2412	Low	-1.17	-2.75	-2.64	-1.87	3.96	≤8	Pass
		2437	Mid	-3.49	-2.45	-1.83	-1.43	3.79	≤8	Pass
		2462	High	-4.13	-4.41	-0.93	-1.65	3.50	≤8	Pass
	802.11g	2412	Low	-5.18	-6.20	-5.88	-6.25	0.16	≤8	Pass
		2437	Mid	-4.92	-5.34	-5.15	-5.04	0.91	≤8	Pass
		2462	High	-8.47	-8.94	-9.48	-8.82	-2.89	≤8	Pass
	802.11n-20M	2412	Low	-6.74	-6.66	-6.38	-6.62	-0.58	≤8	Pass
		2437	Mid	-5.21	-5.27	-3.38	-5.52	1.27	≤8	Pass
		2462	High	-9.43	-9.32	-8.80	-7.85	-2.78	≤8	Pass
	802.11n-40M	2422	Low	-8.38	-8.59	-8.50	-7.63	-2.24	≤8	Pass
		2437	Mid	-6.14	-6.55	-7.21	-6.84	-0.65	≤8	Pass
		2452	High	-13.71	-12.9	-13.58	-12.88	-7.23	≤8	Pass

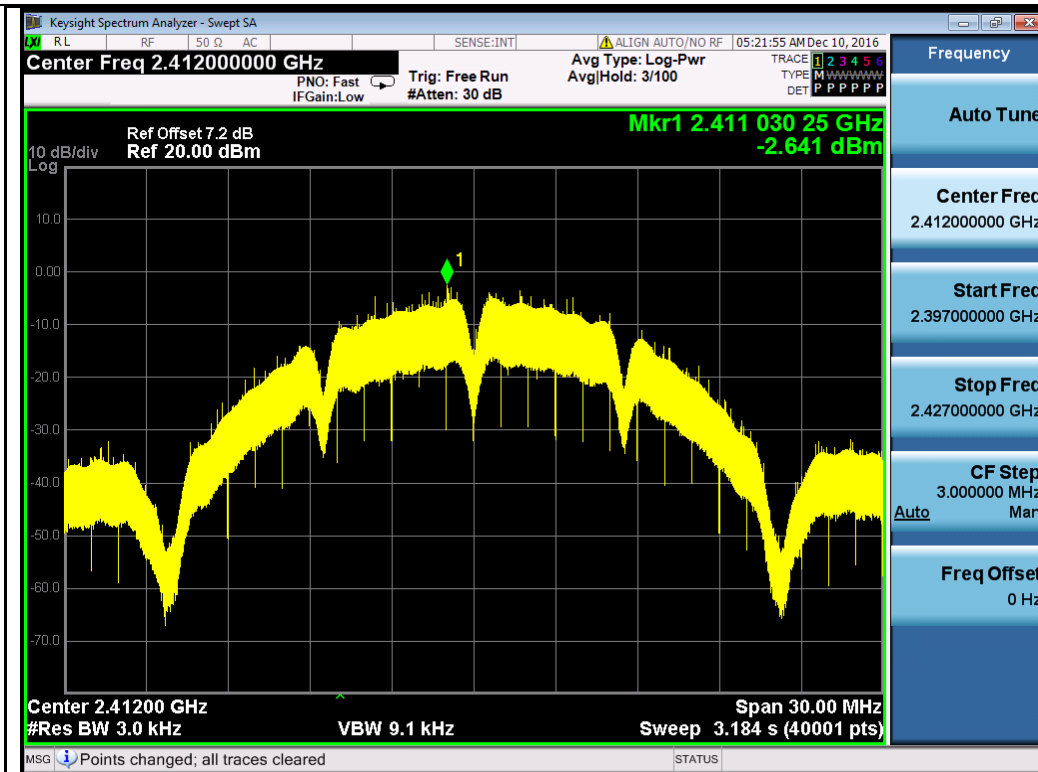
Test Plots



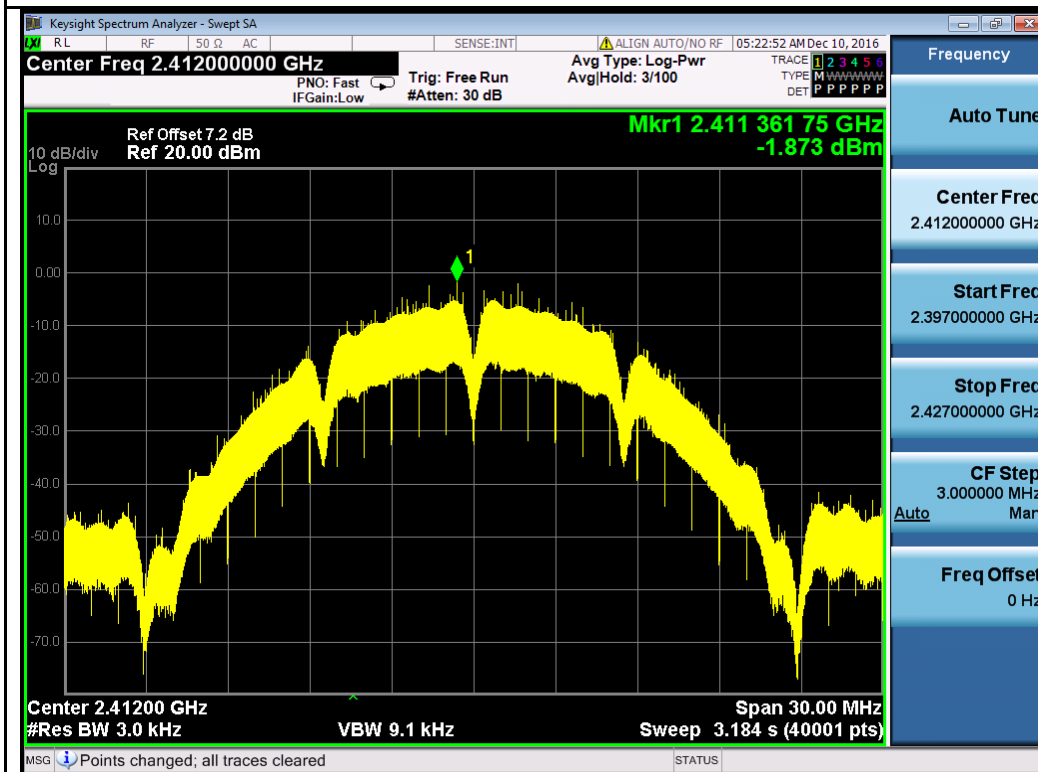
802.11b-2412MHz Chain 1



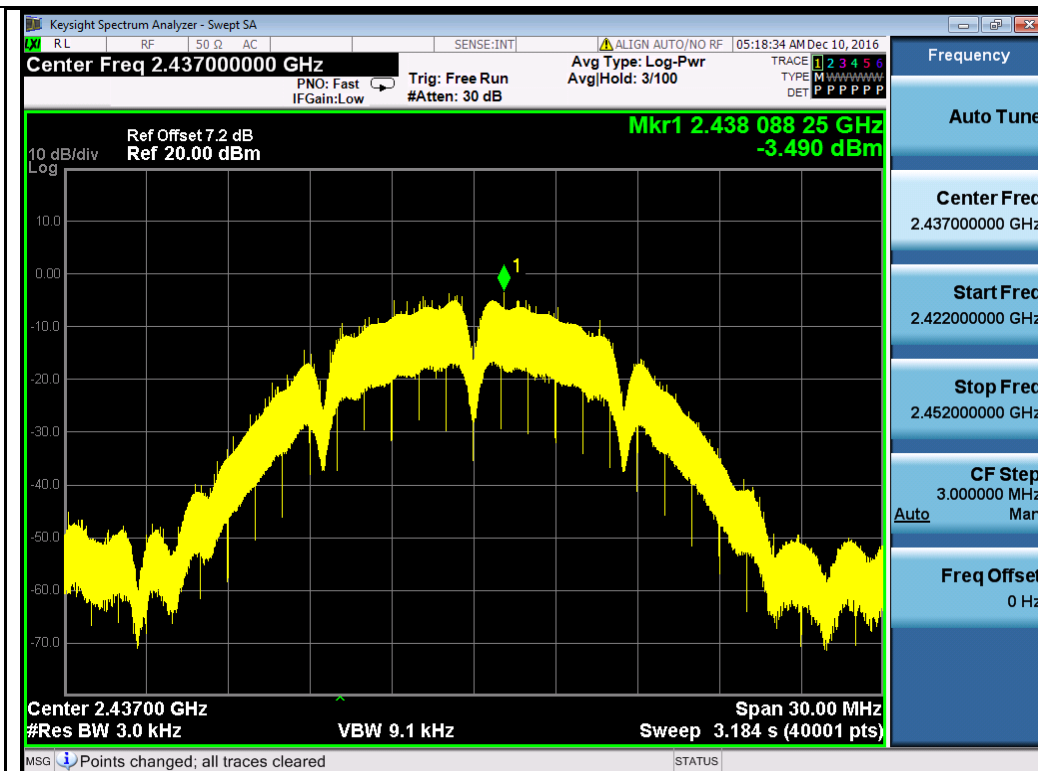
802.11b-2412MHz Chain 2



802.11b-2412MHz Chain 3



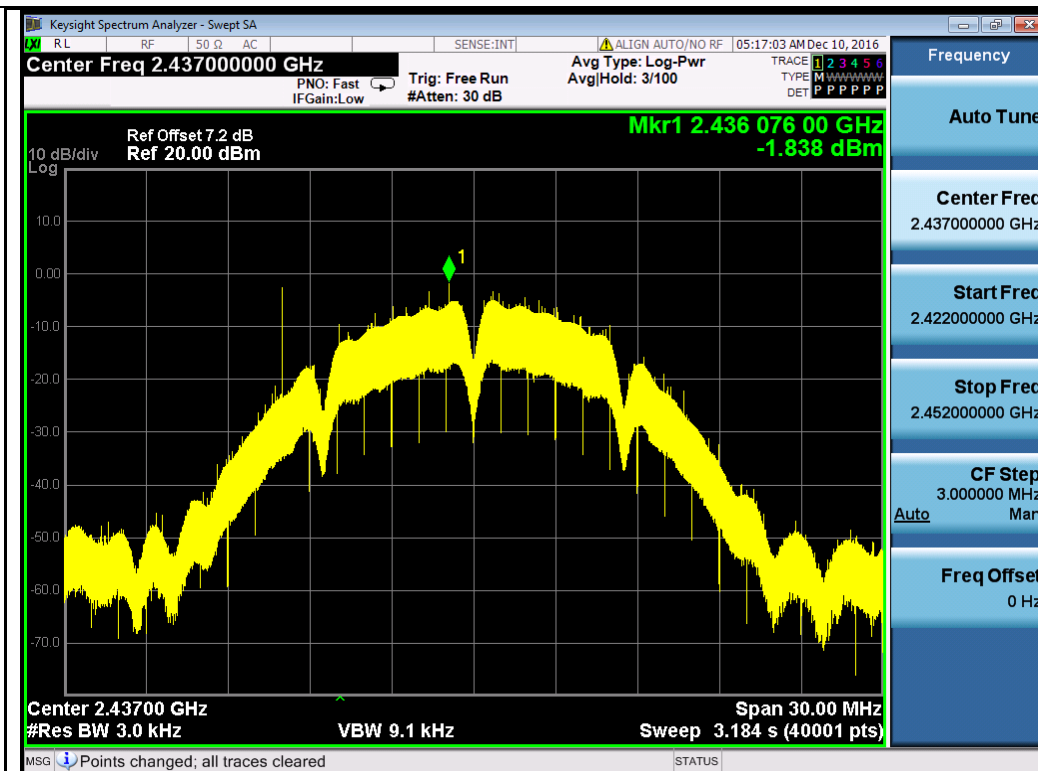
802.11b-2412MHz Chain 4



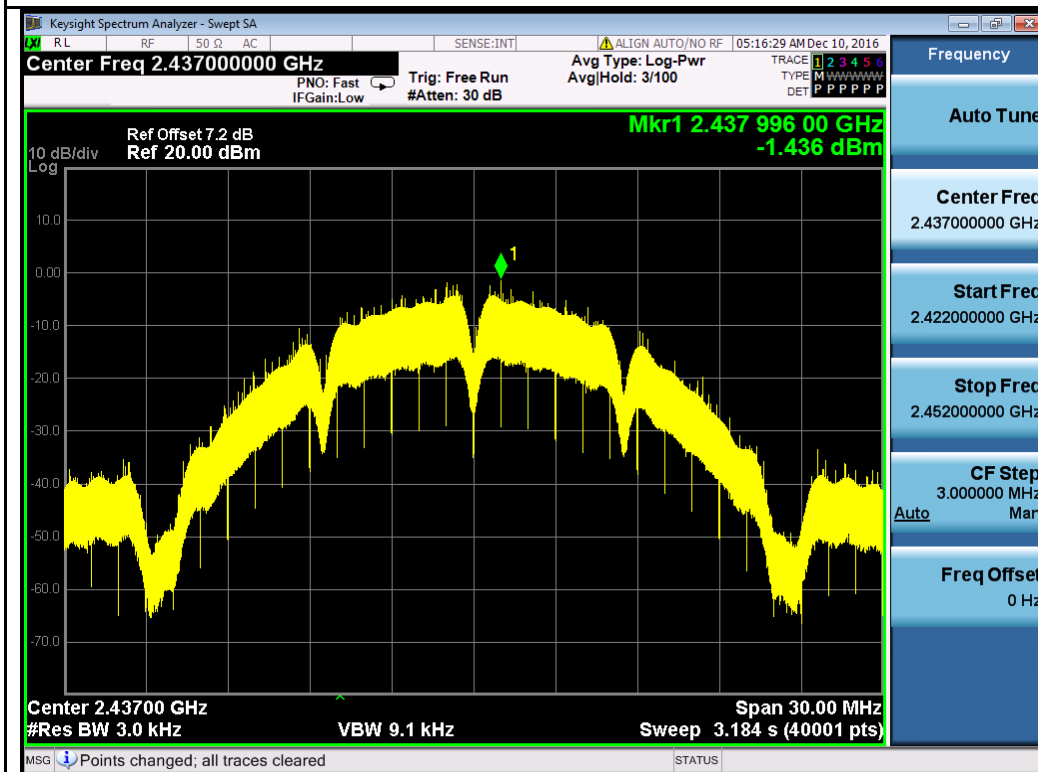
802.11b-2437MHz Chain 1



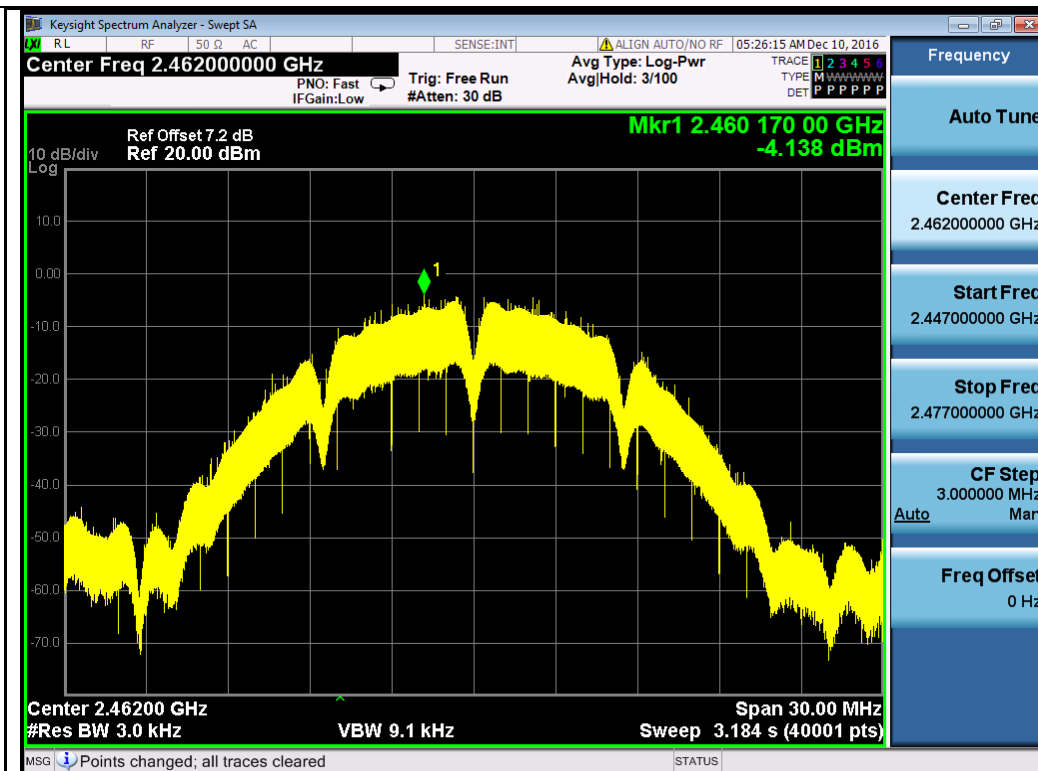
802.11b-2437MHz Chain 2



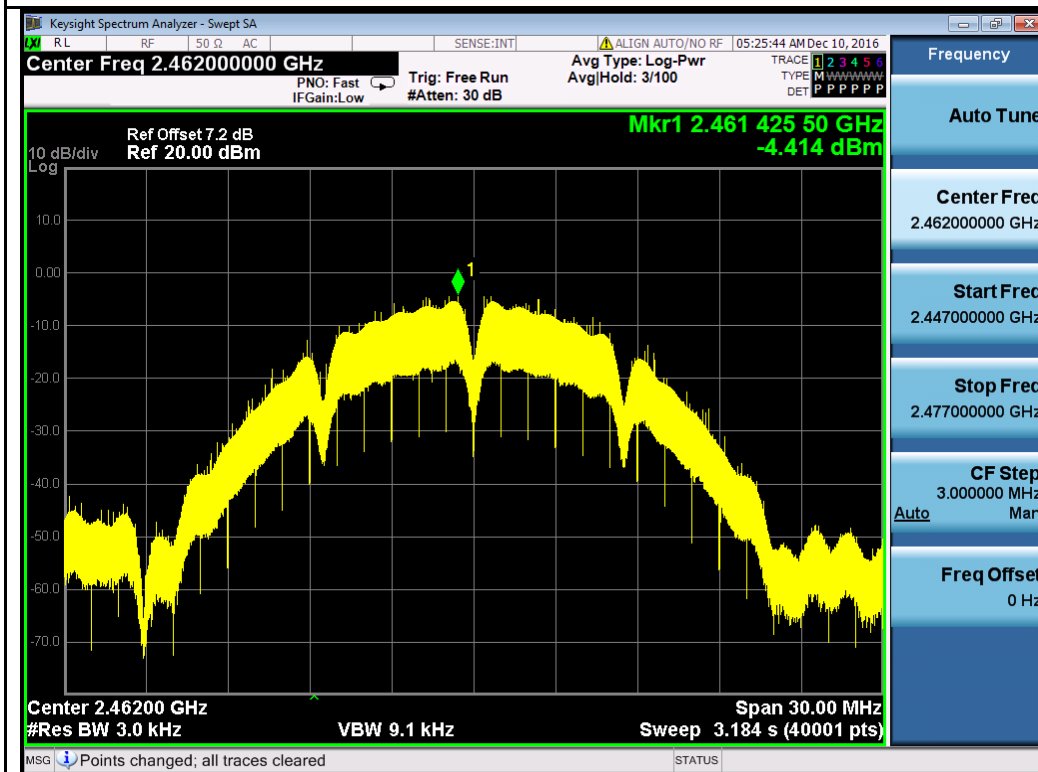
802.11b-2437MHz Chain 3



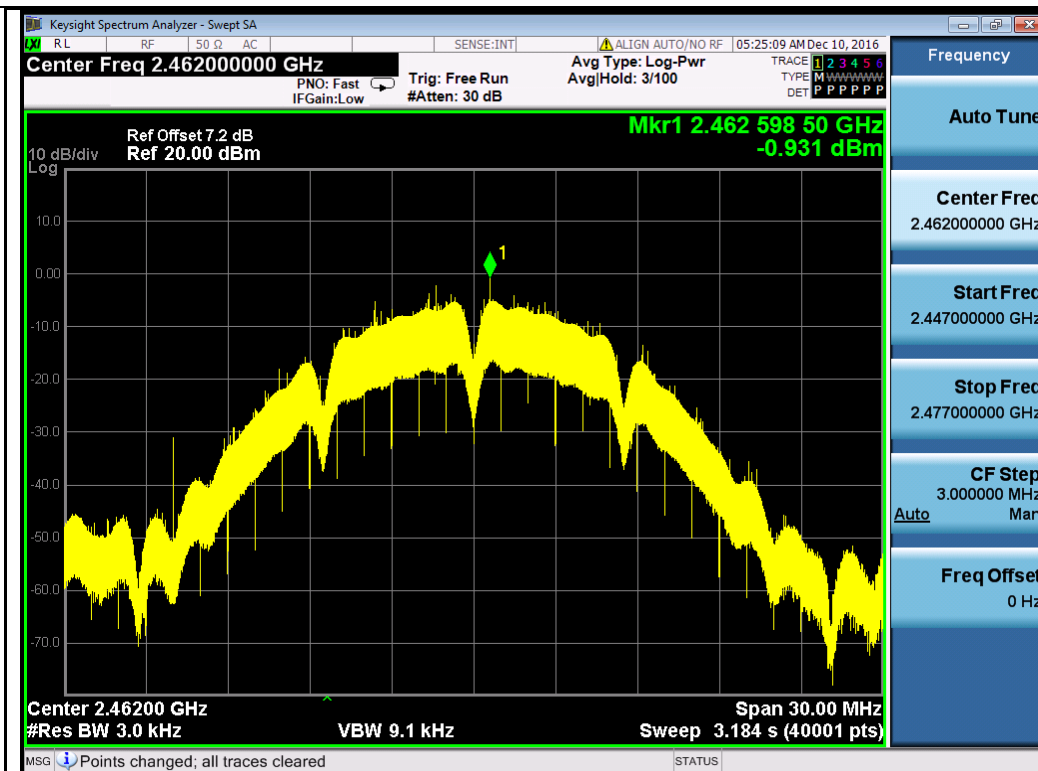
802.11b-2437MHz Chain 4



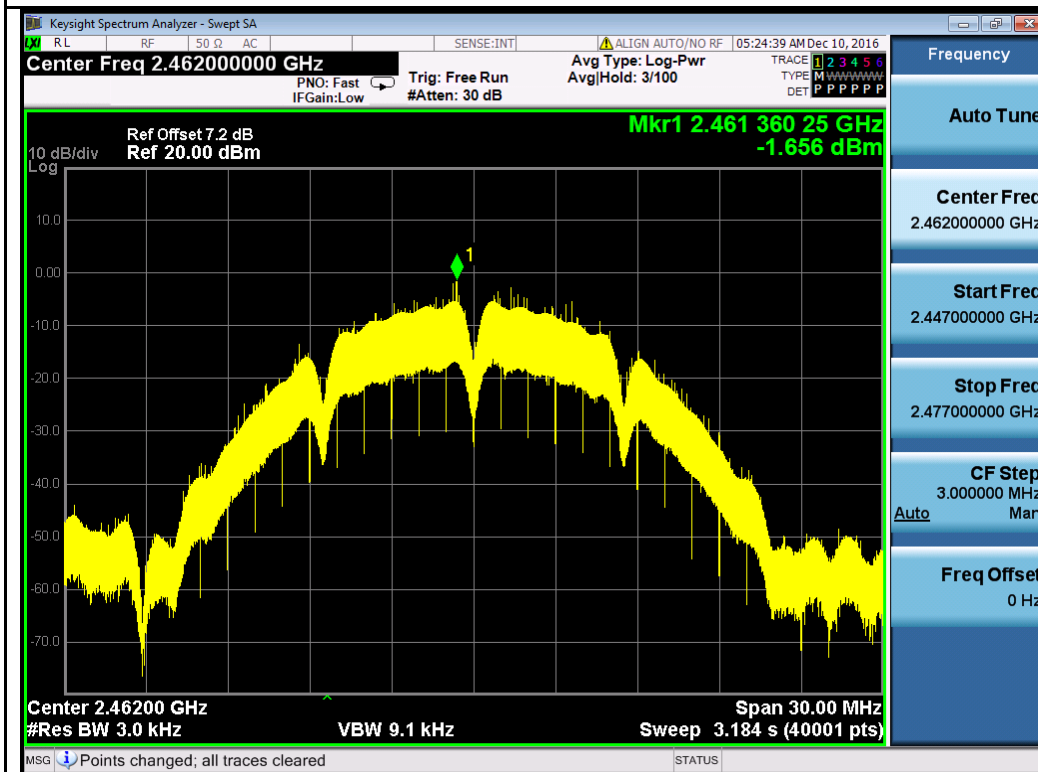
802.11b-2462MHz Chain 1



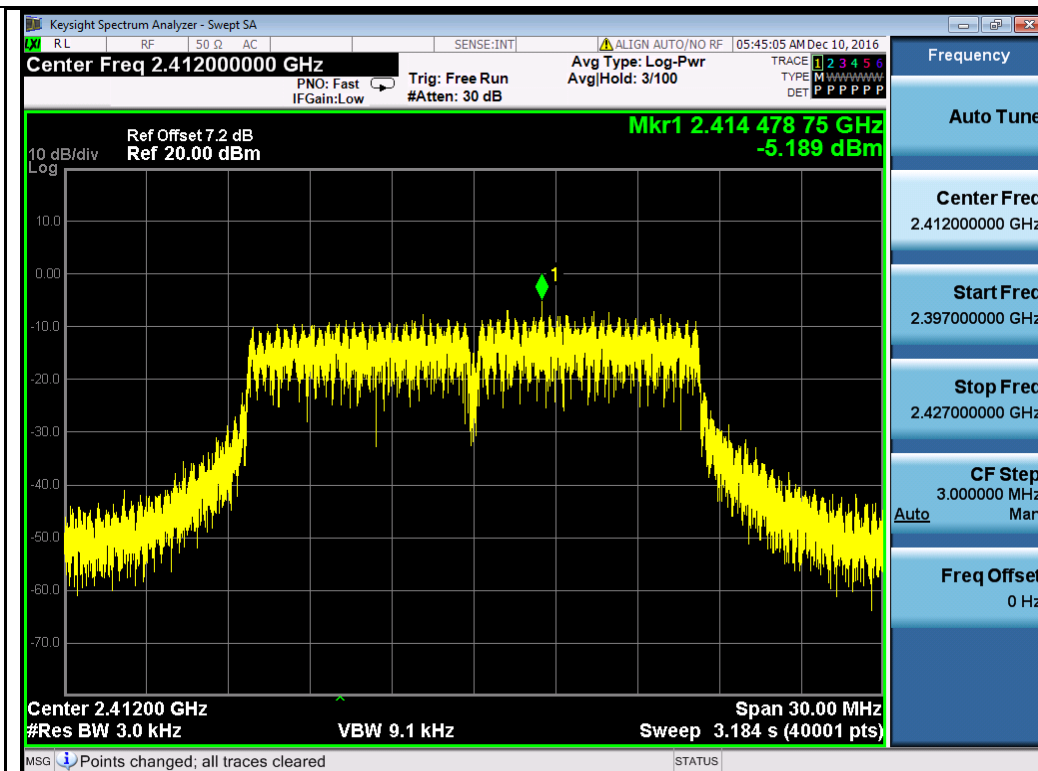
802.11b-2462MHz Chain 2



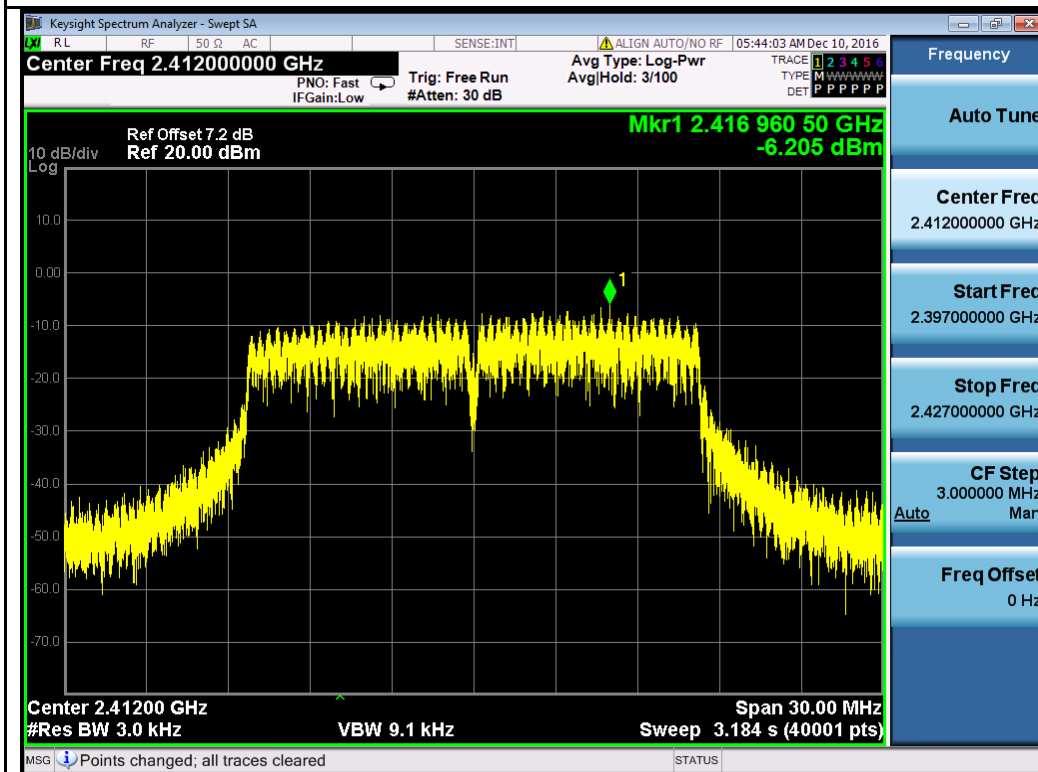
802.11b-2462MHz Chain 3



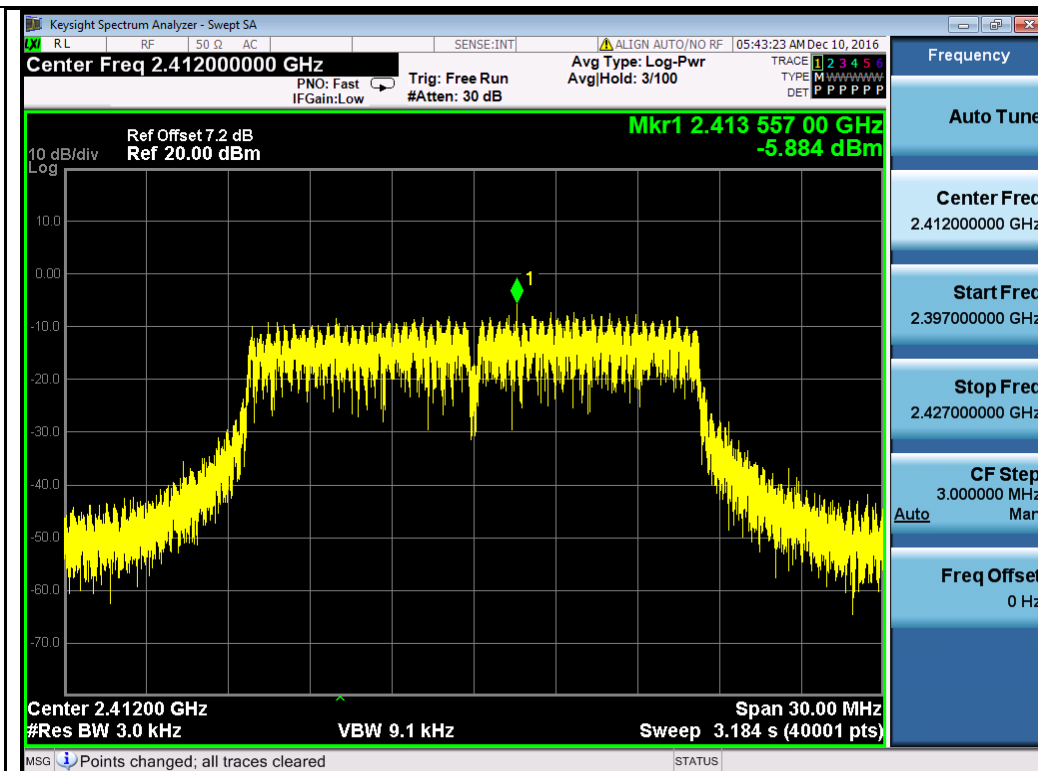
802.11b-2462MHz Chain 4



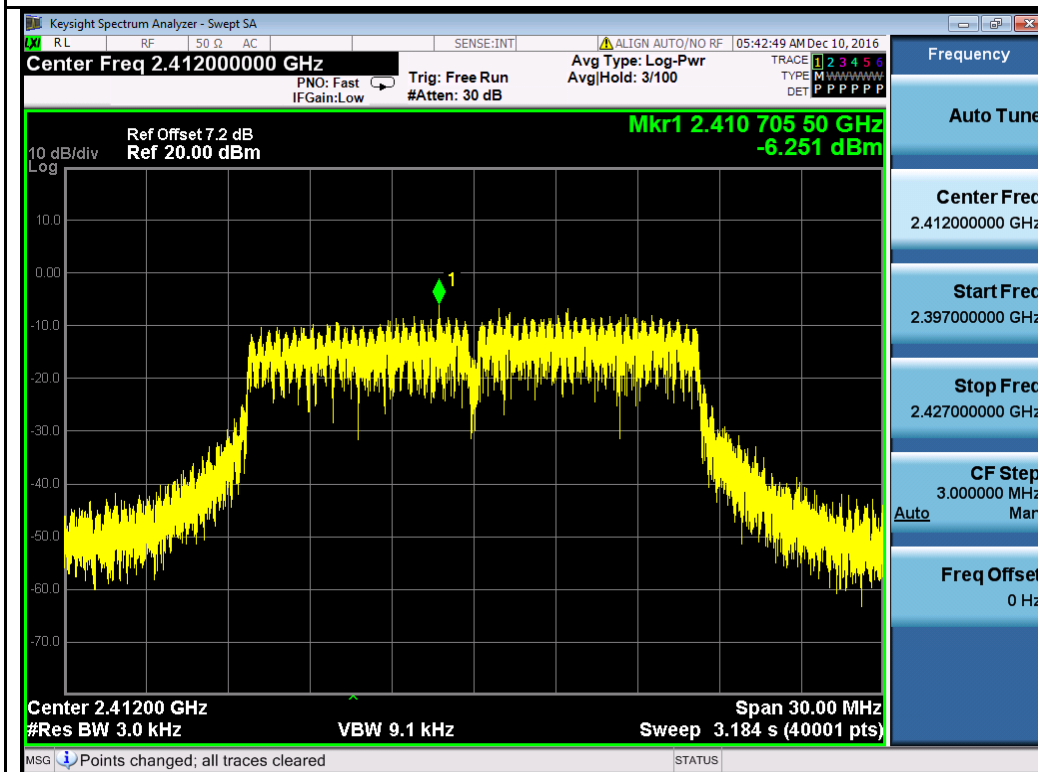
802.11g-2412MHz Chain 1



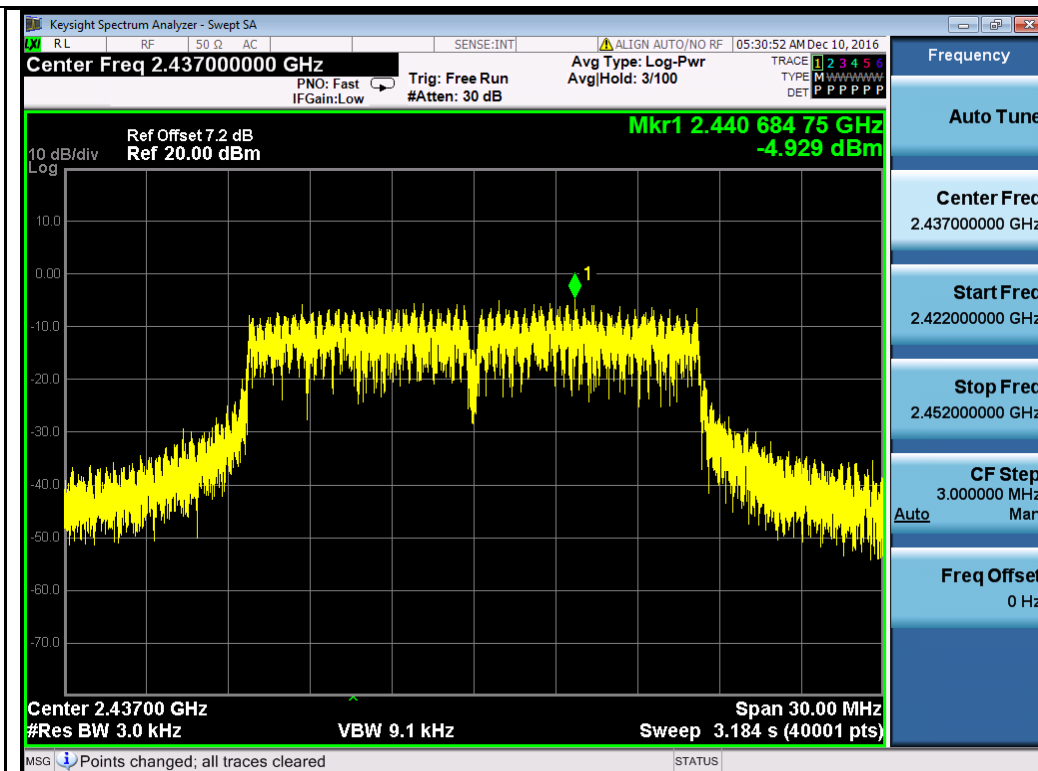
802.11g-2412MHz Chain 2



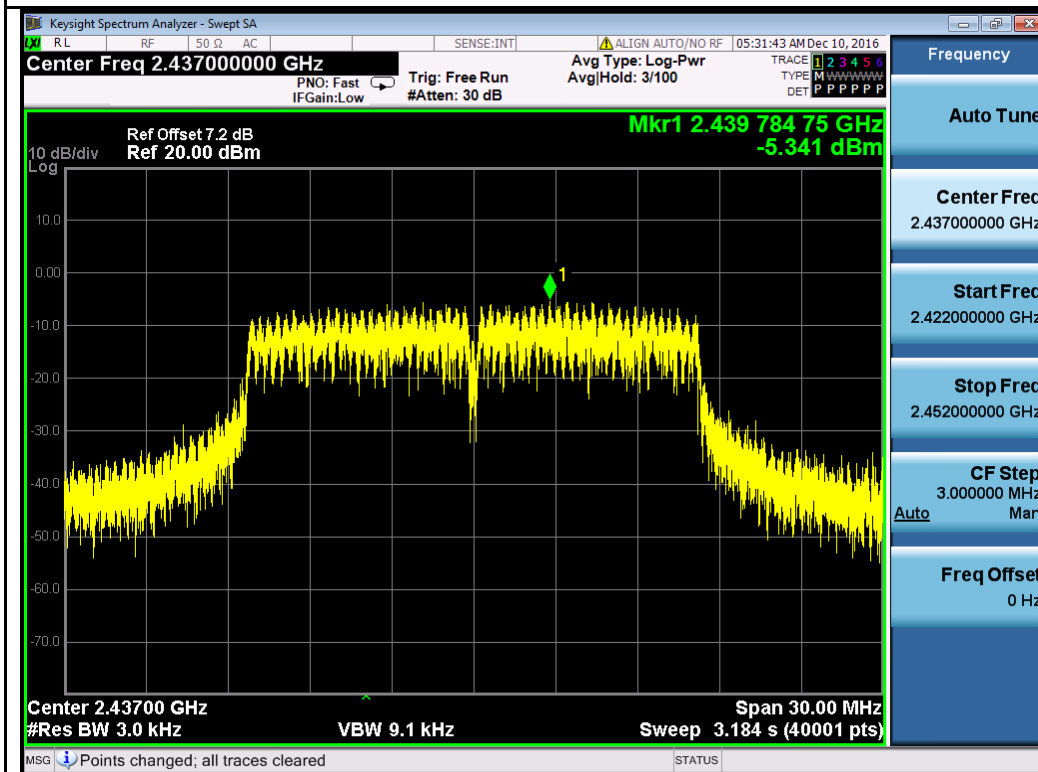
802.11g-2412MHz Chain 3



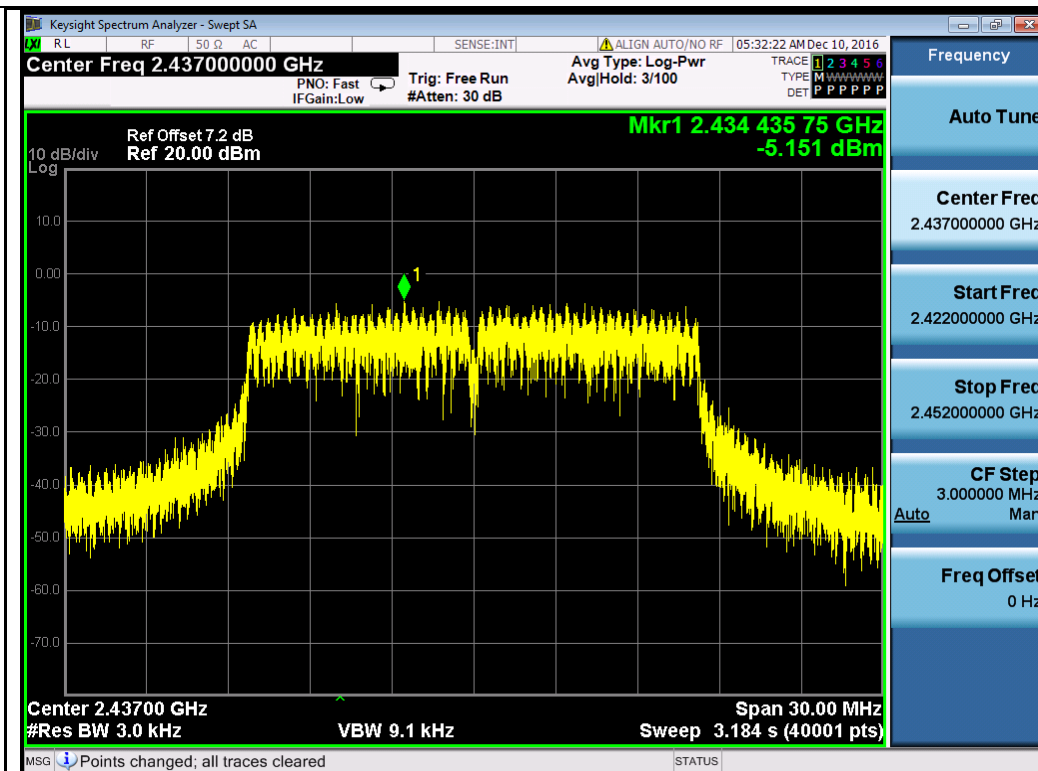
802.11g-2412MHz Chain 4



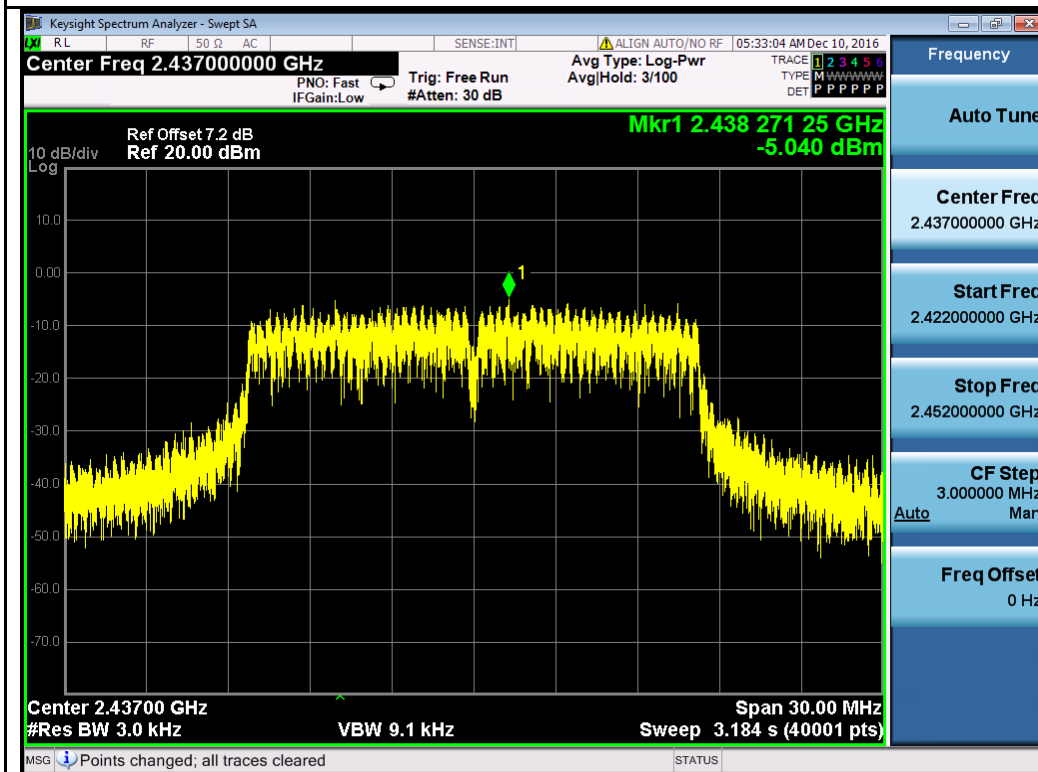
802.11g-2437MHz Chain 1



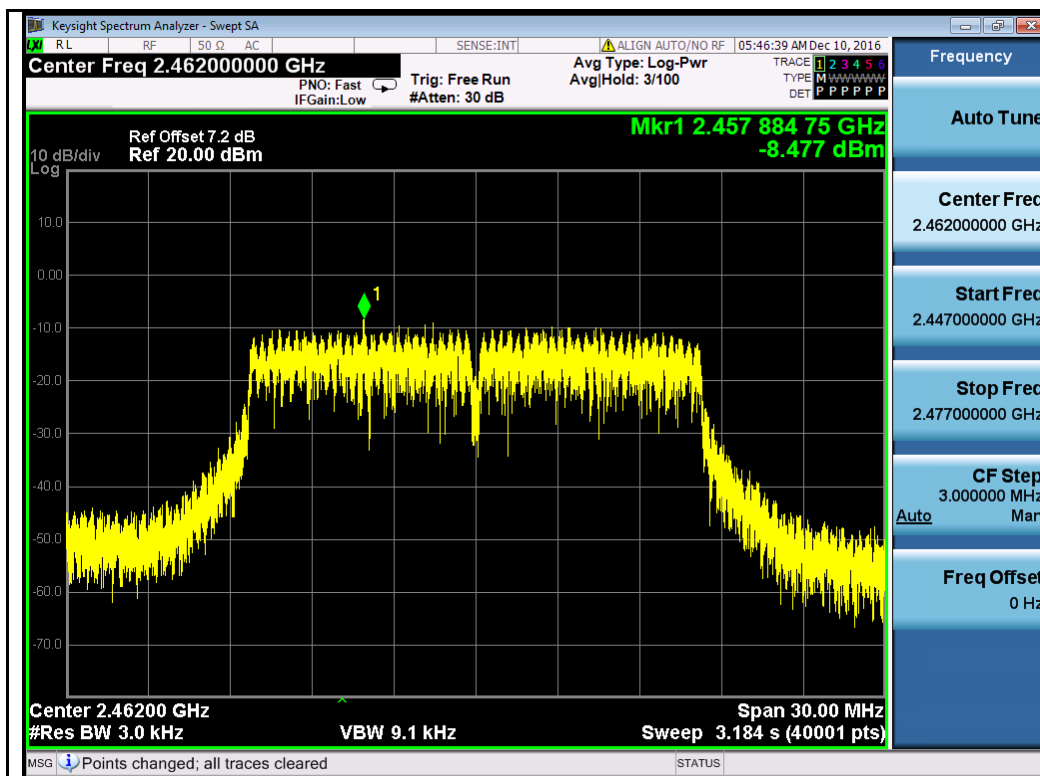
802.11g-2437MHz Chain 2



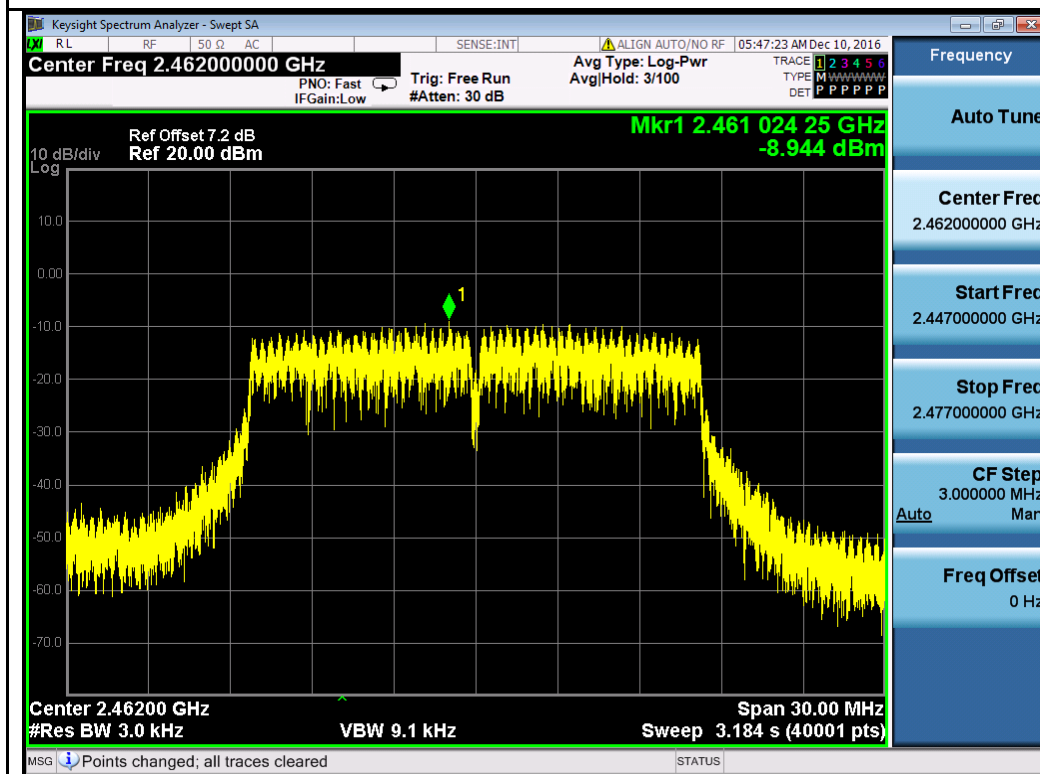
802.11g-2437MHz Chain 3



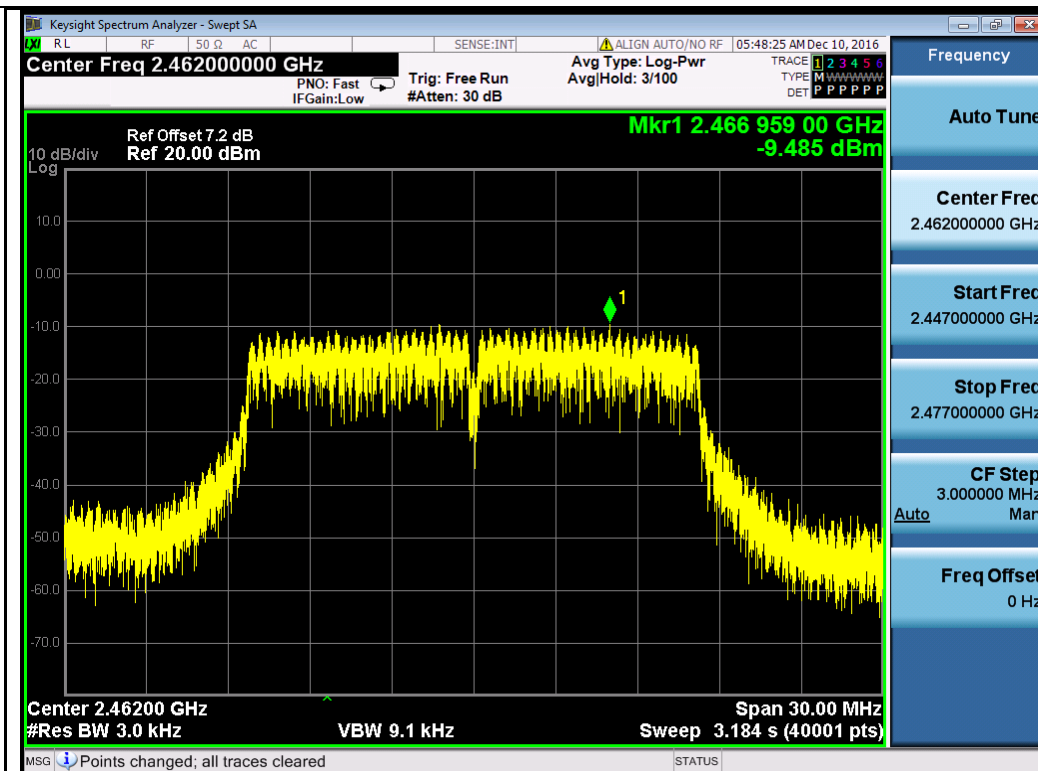
802.11g-2437MHz Chain 4



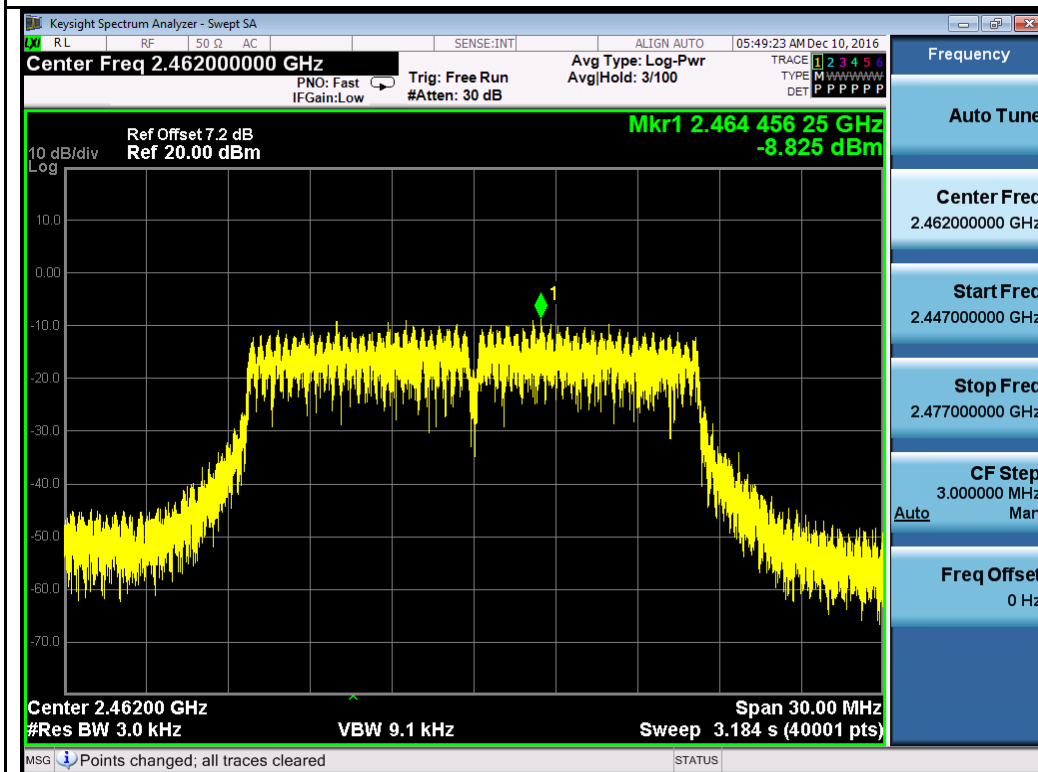
802.11g-2462MHz Chain 1



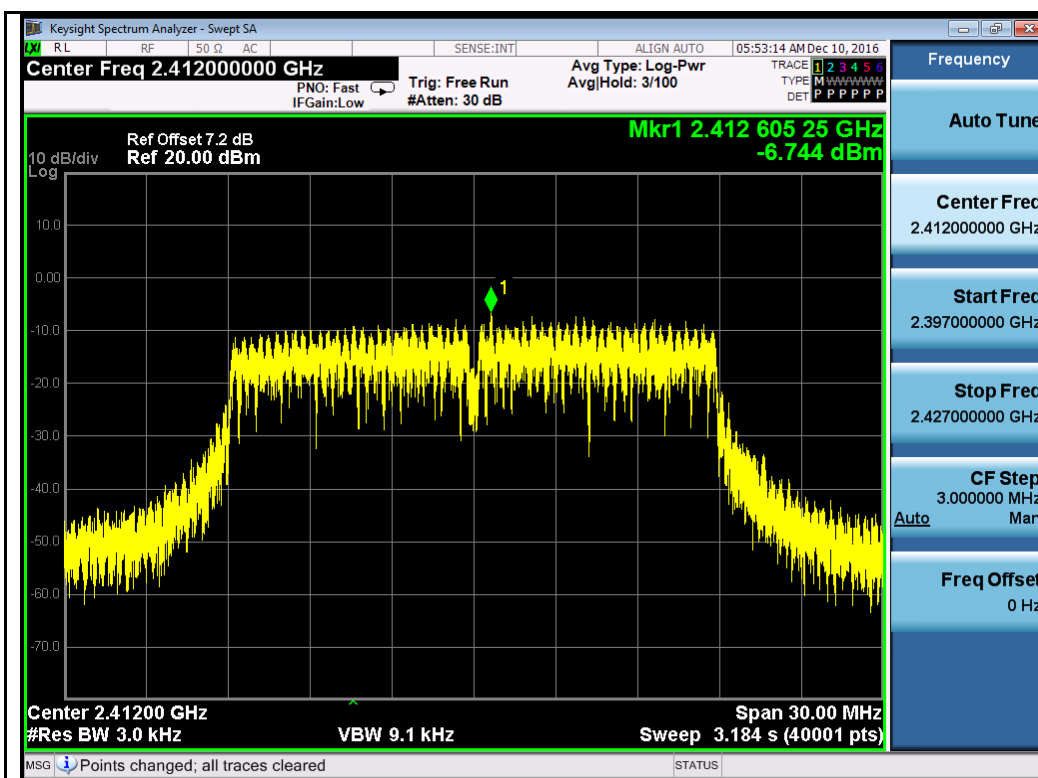
802.11g-2462MHz Chain 2



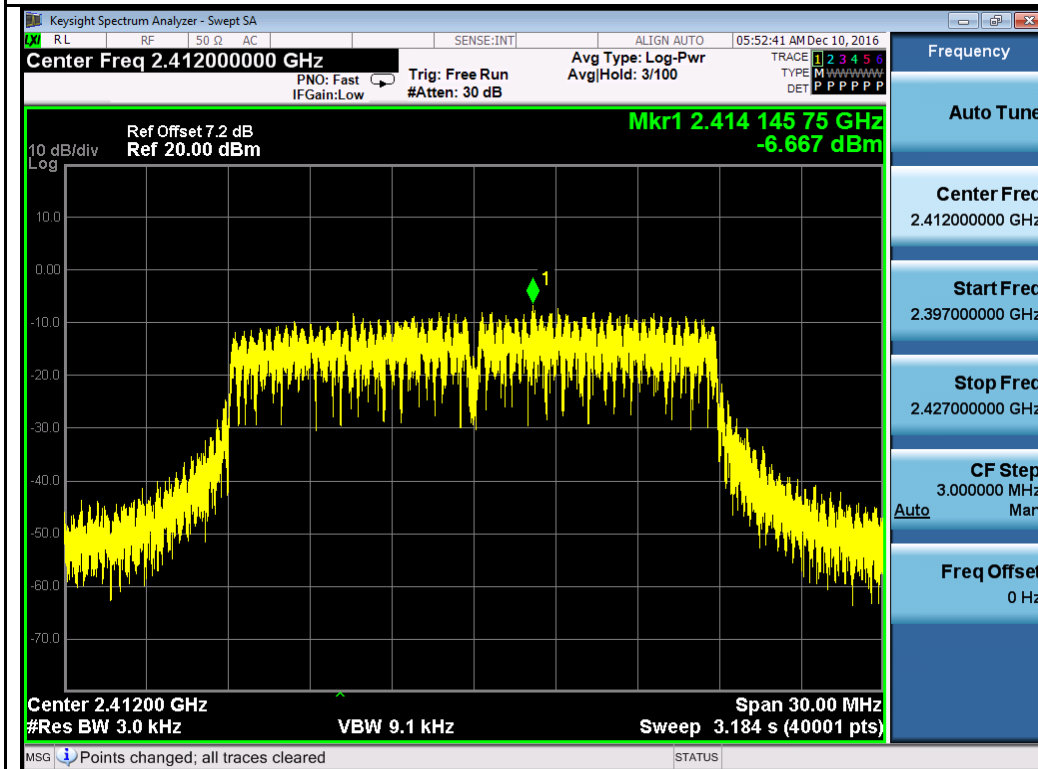
802.11g-2462MHz Chain 3



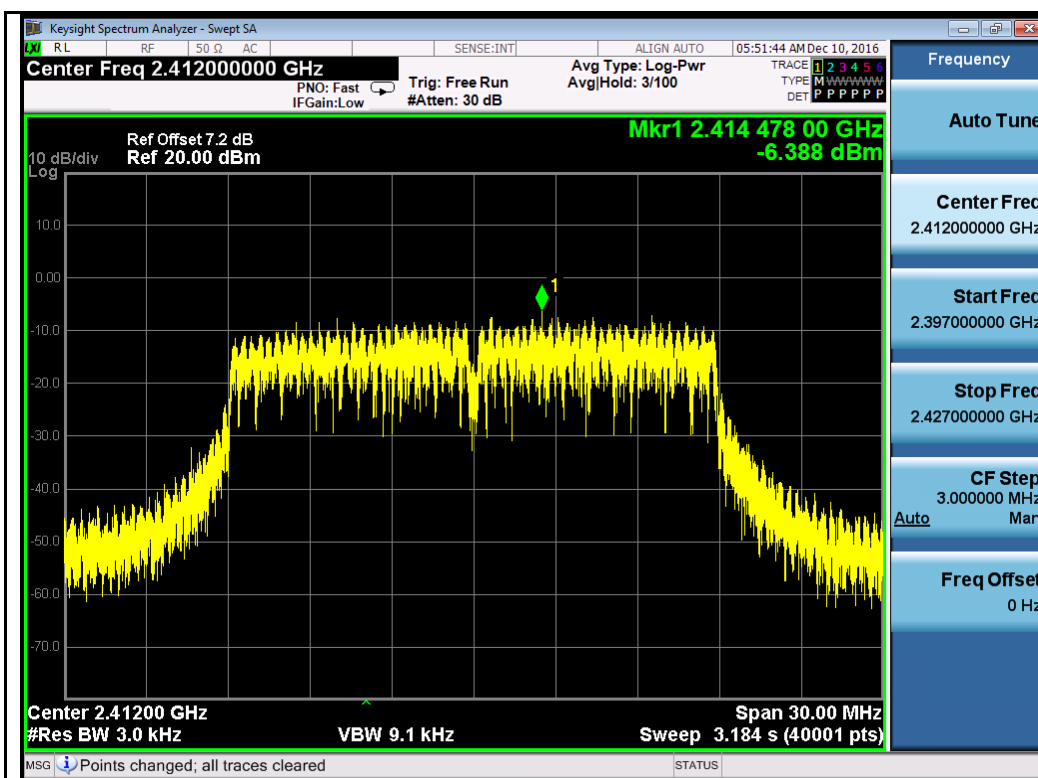
802.11g-2462MHz Chain 4



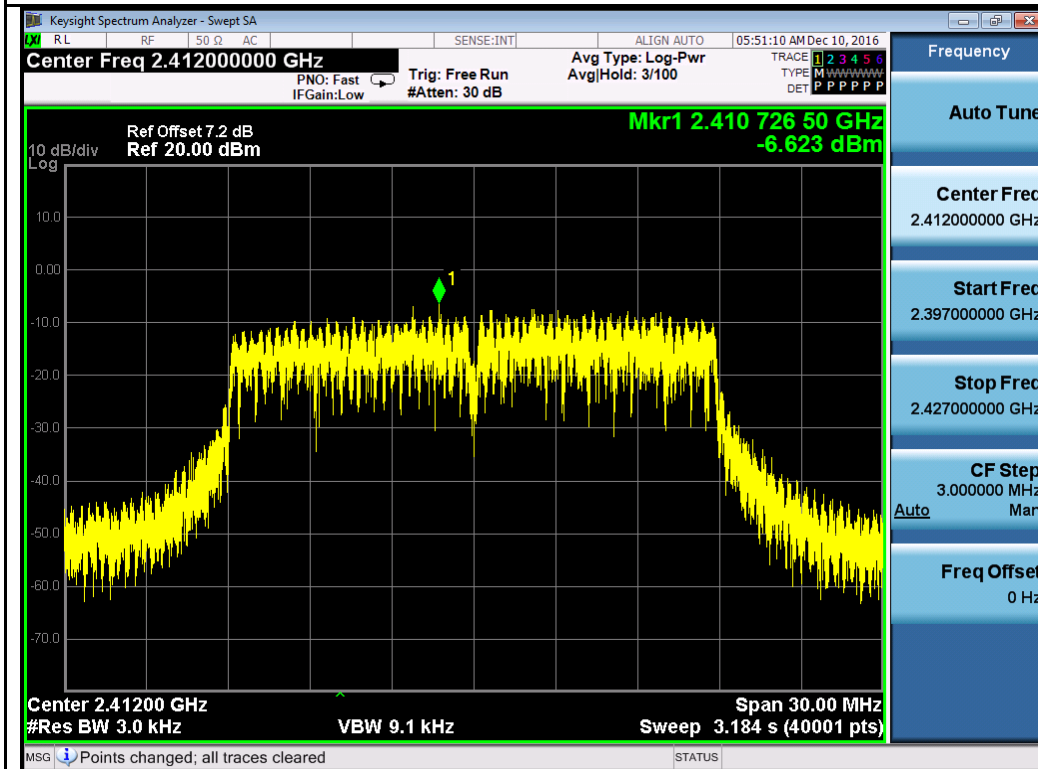
802.11n-HT20 2412MHz Chain 1



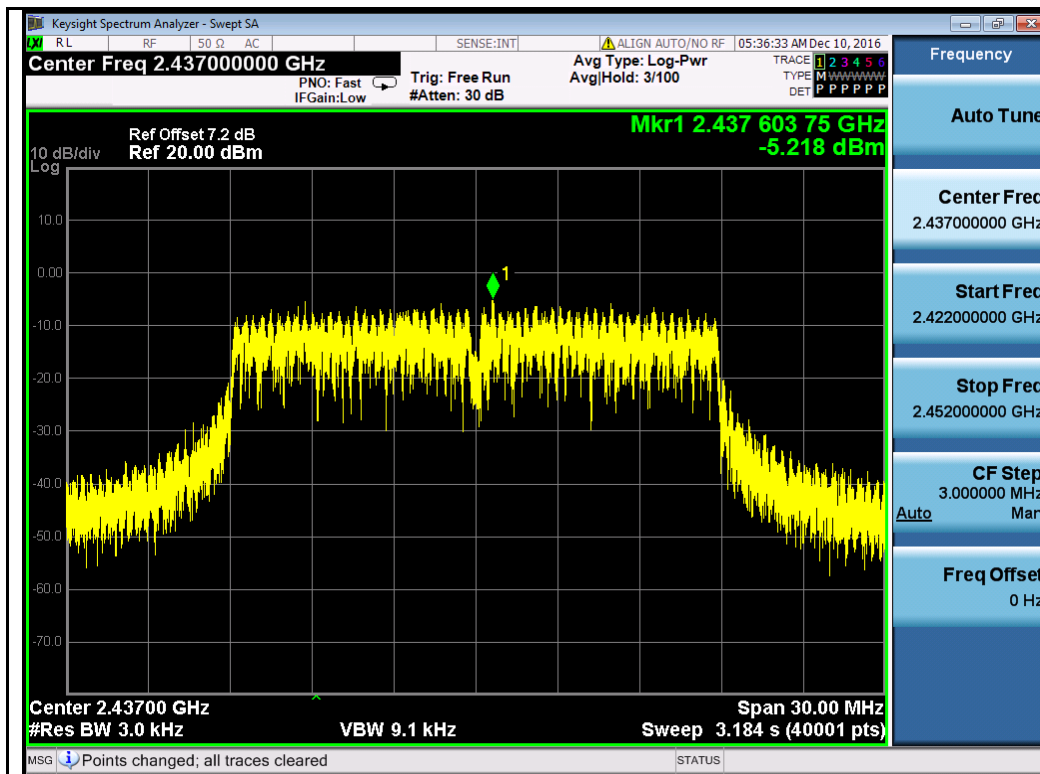
802.11n-HT20 2412MHz Chain 2



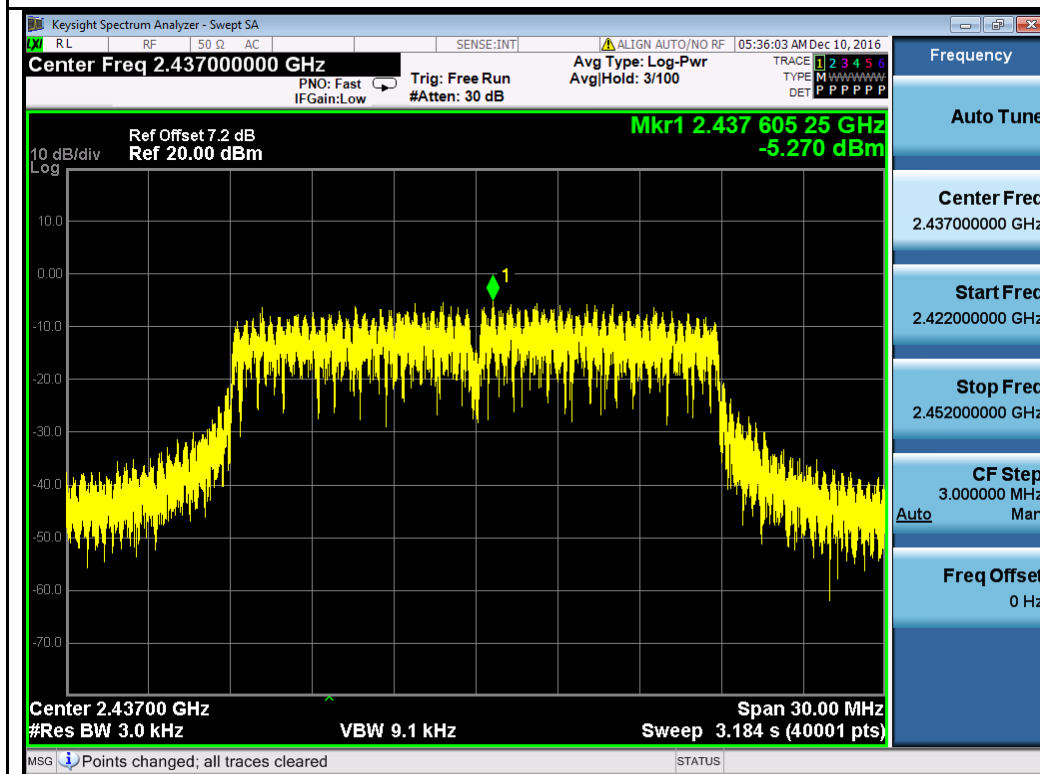
802.11n-HT20 2412MHz Chain 3



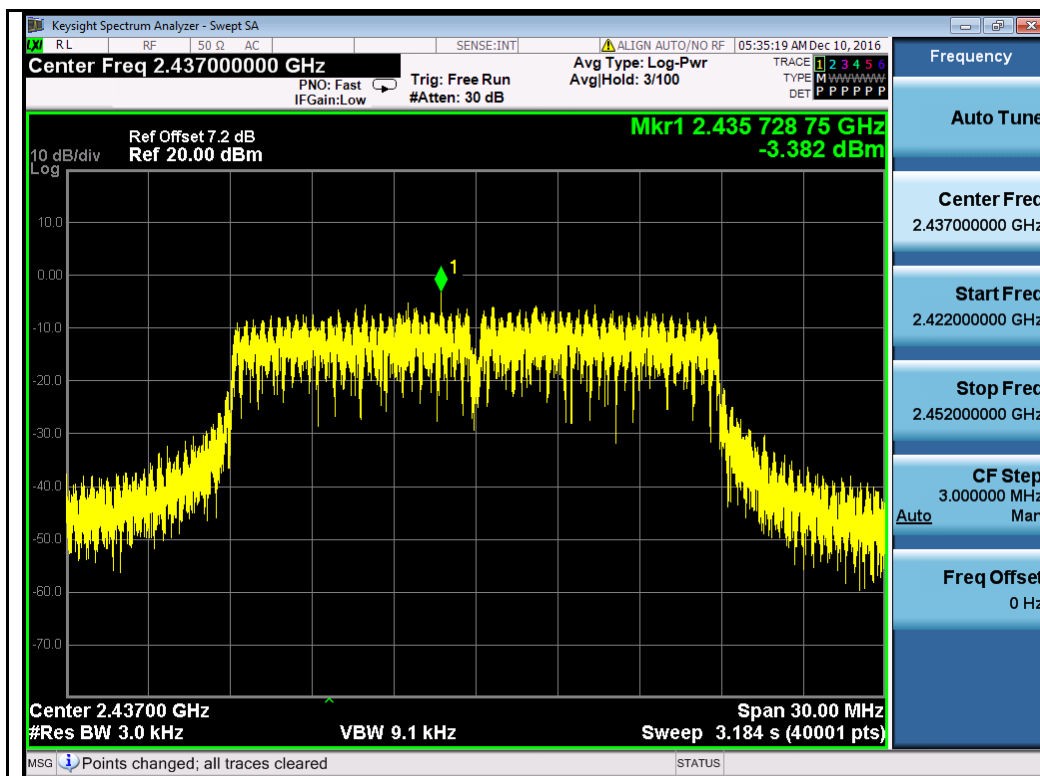
802.11n-HT20 2412MHz Chain 4



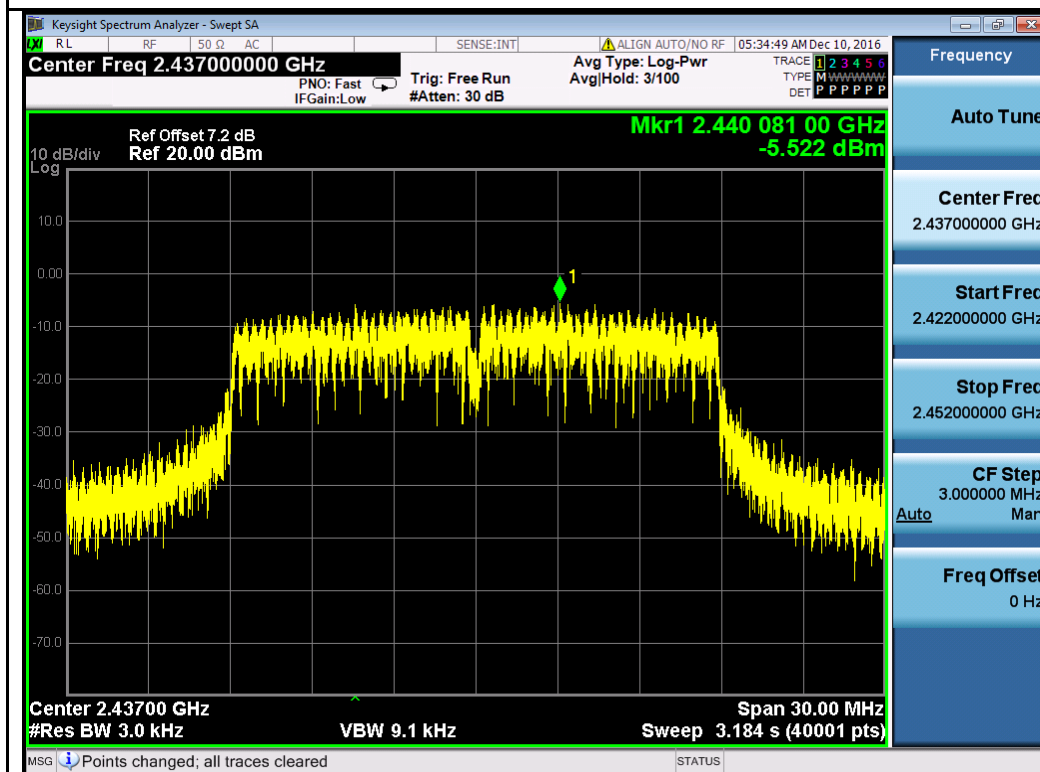
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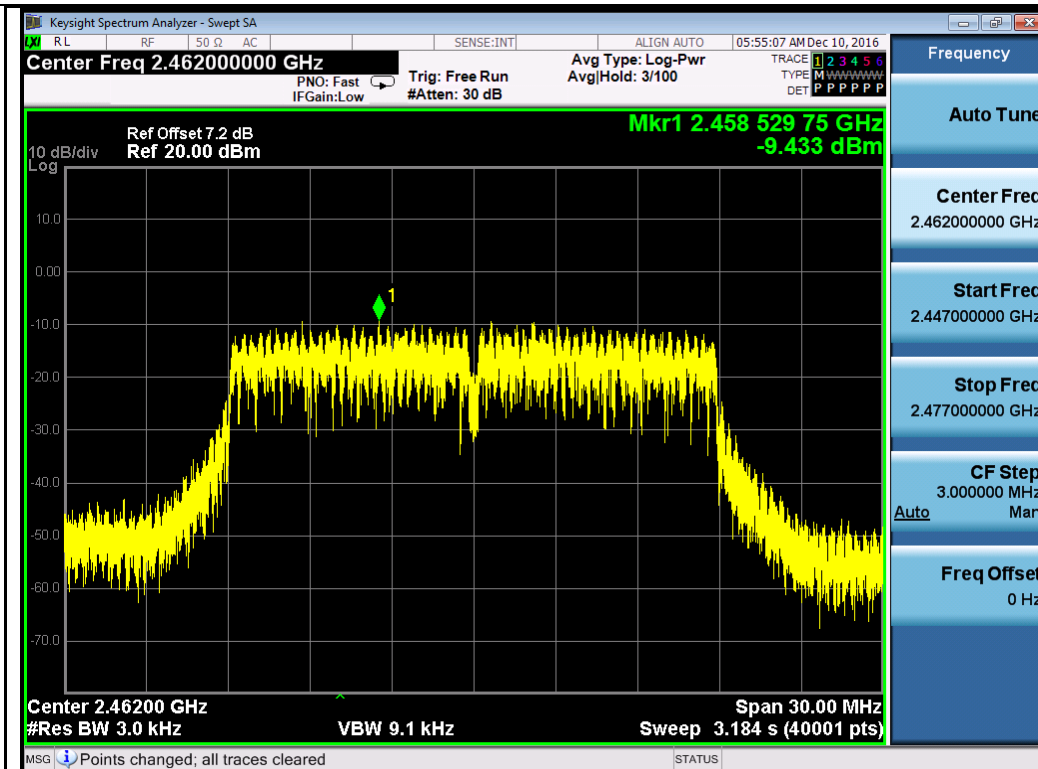
802.11n-HT20 2437MHz Chain 2



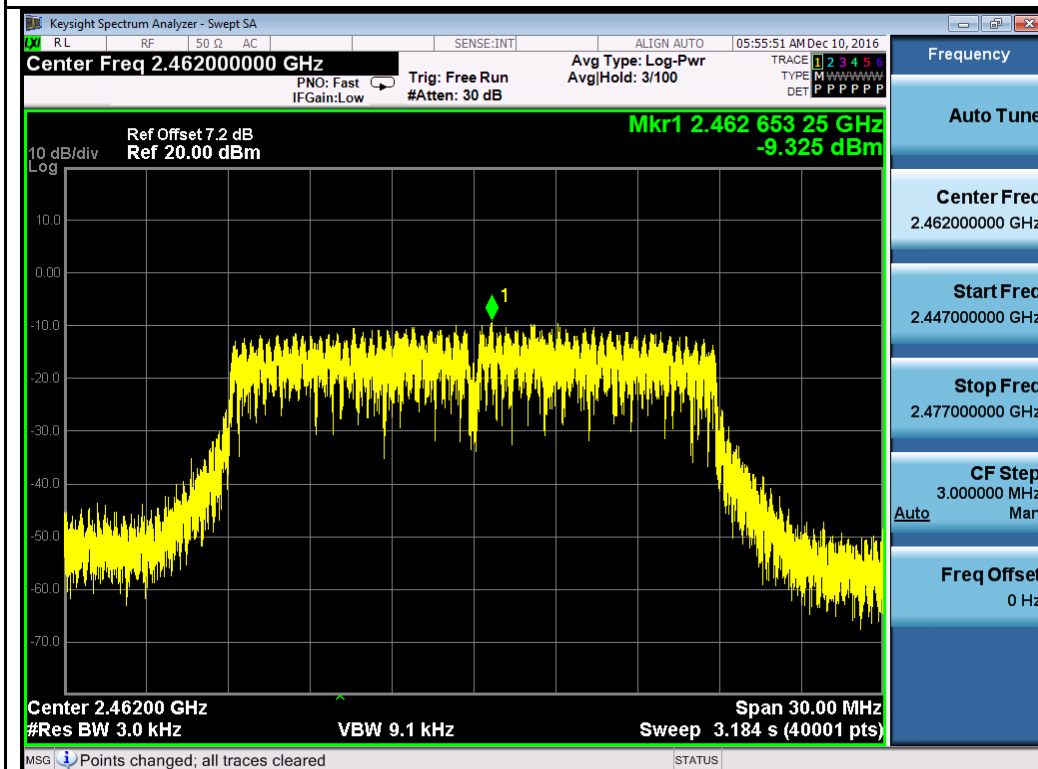
802.11n-HT20 2437MHz Chain 3



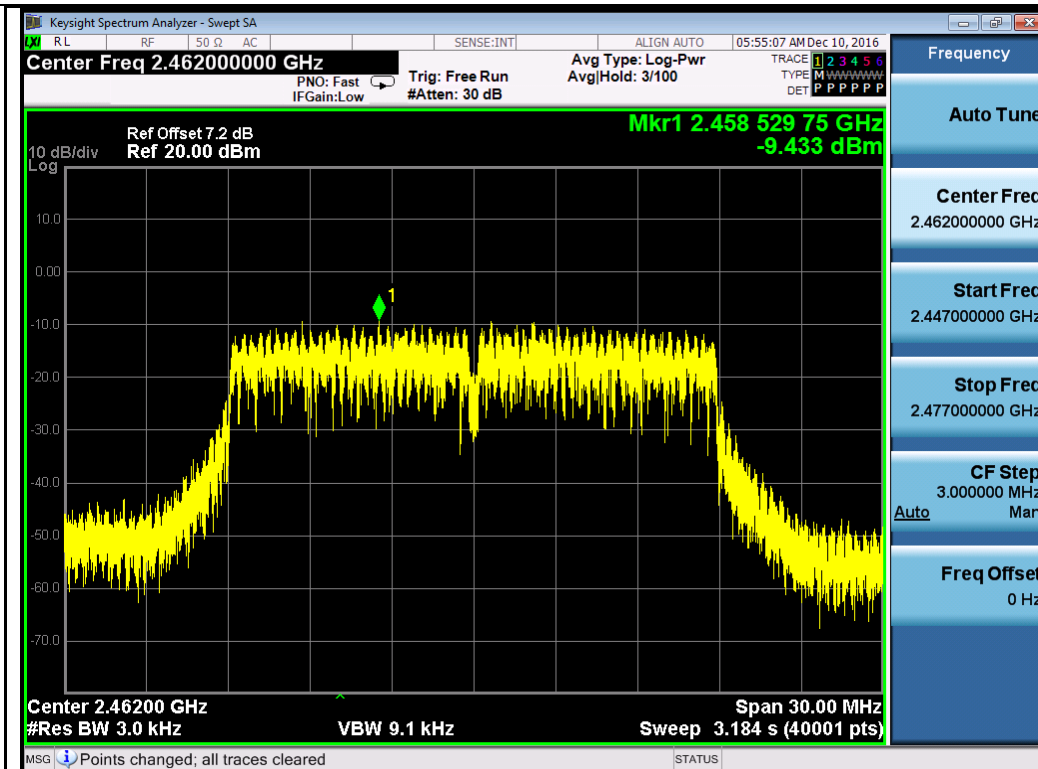
802.11n-HT20 2437MHz Chain 4



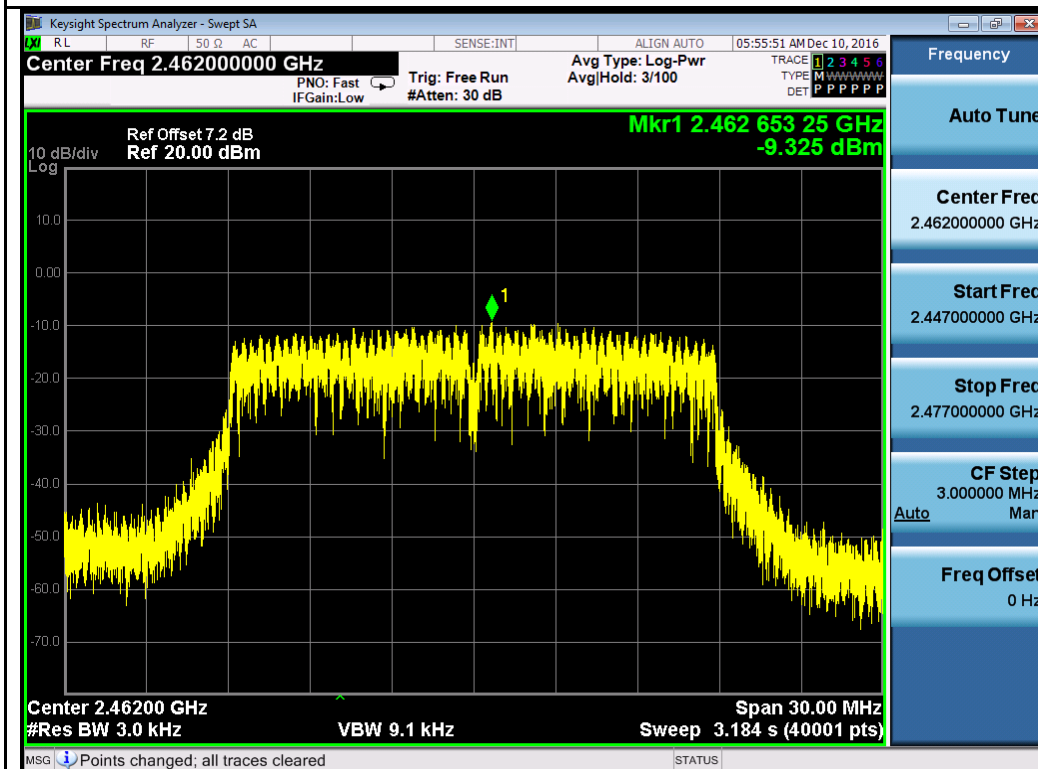
802.11n-HT20 2462MHz Chain 1



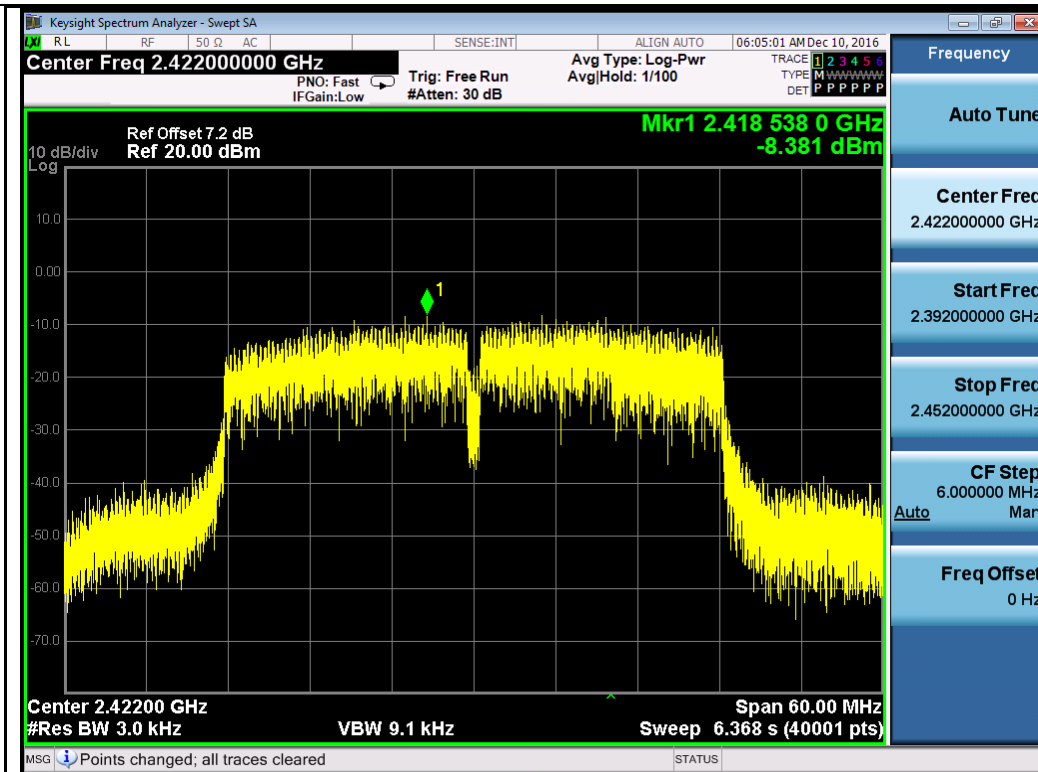
802.11n-HT20 2462MHz Chain 2



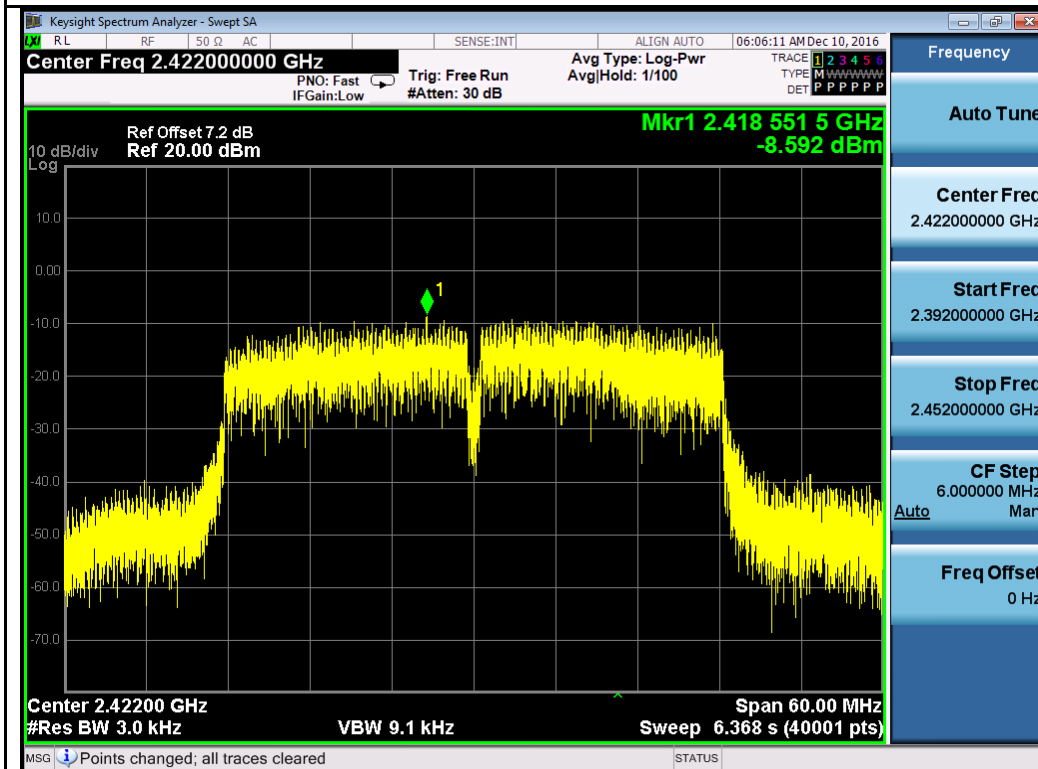
802.11n-HT20 2462MHz Chain 3



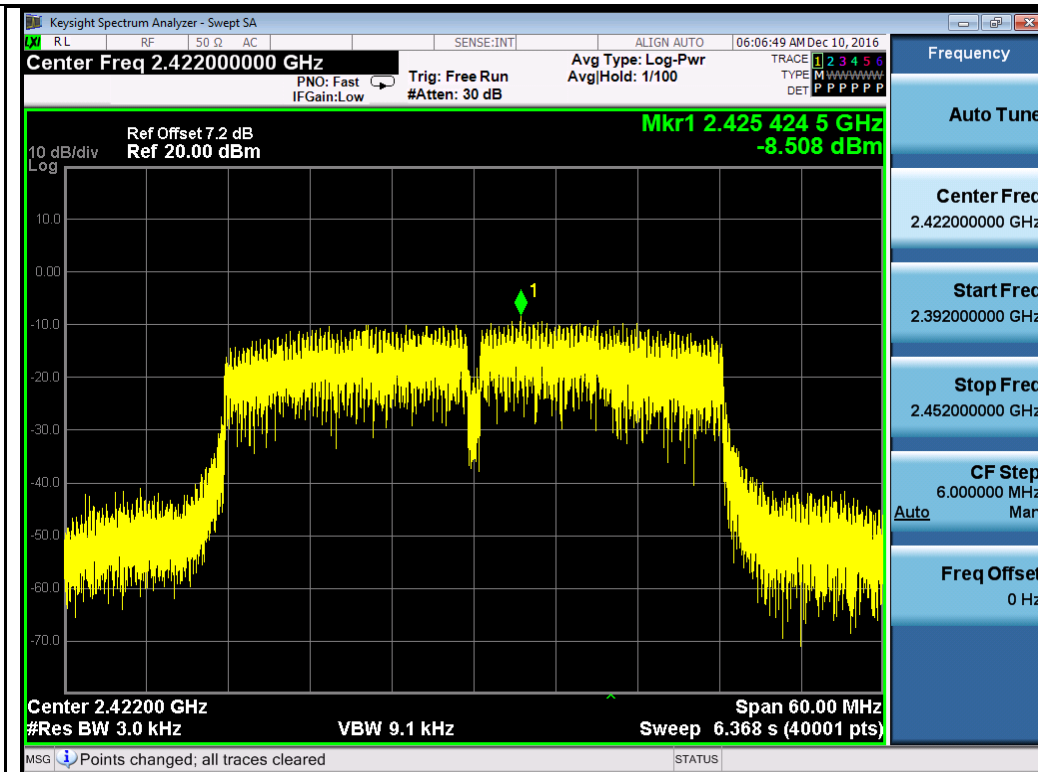
802.11n-HT20 2462MHz Chain 4



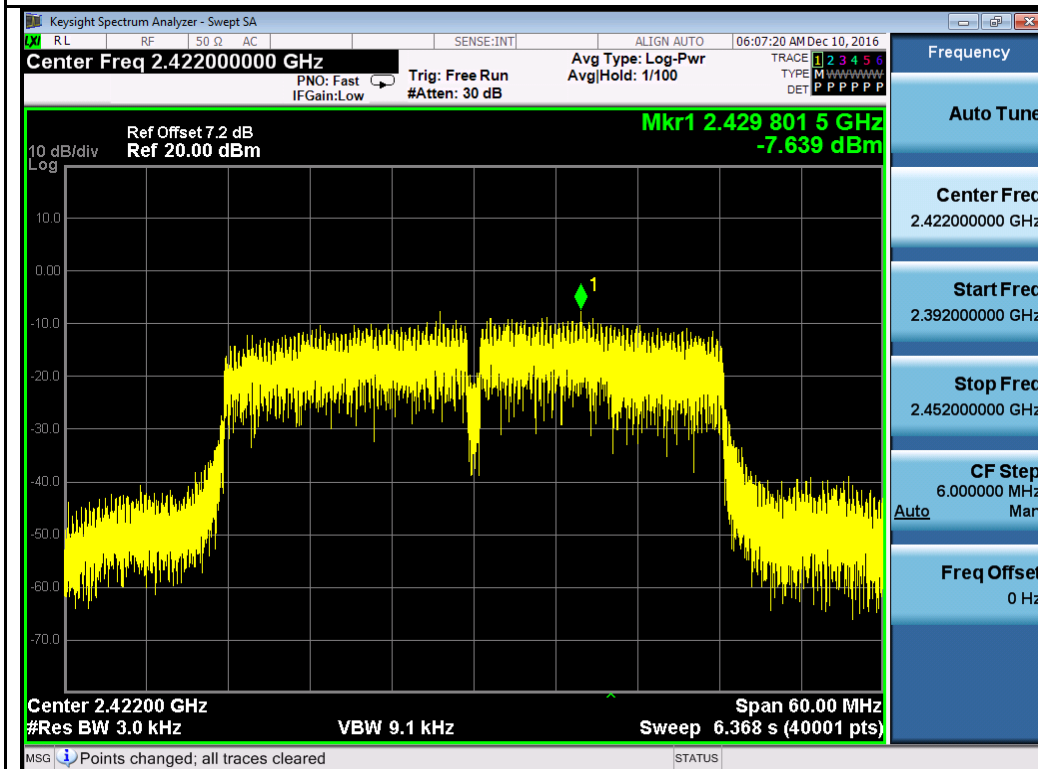
802.11n-HT40 2422MHz Chain 1



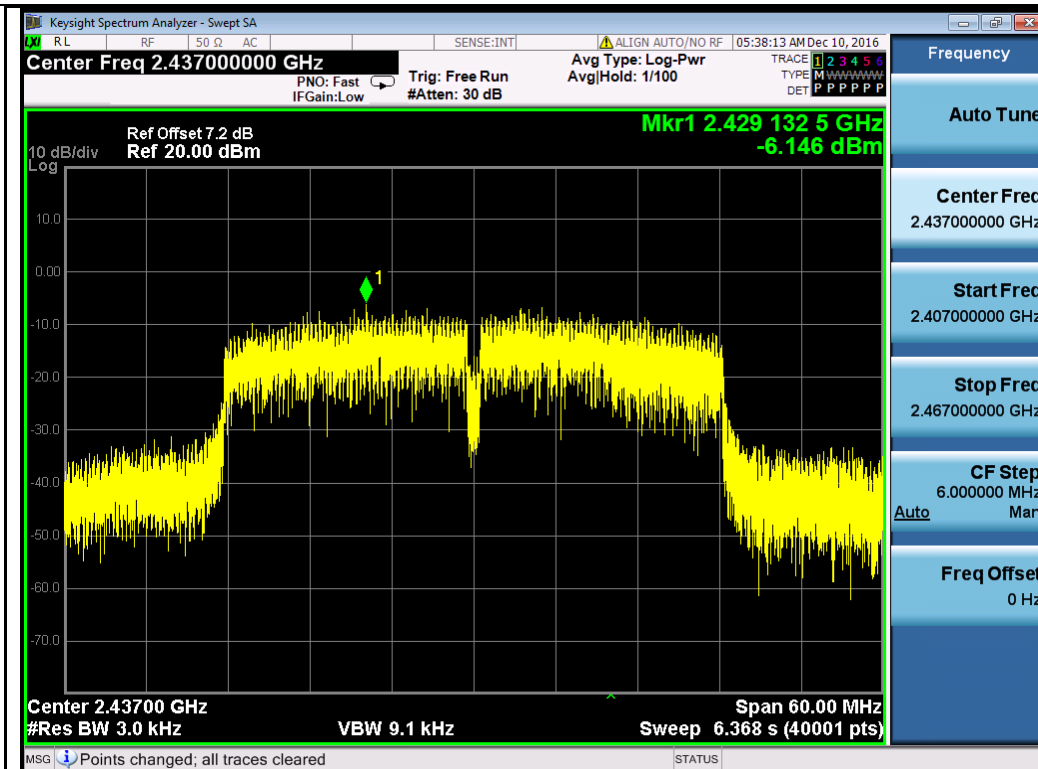
802.11n-HT40 2422MHz Chain 2



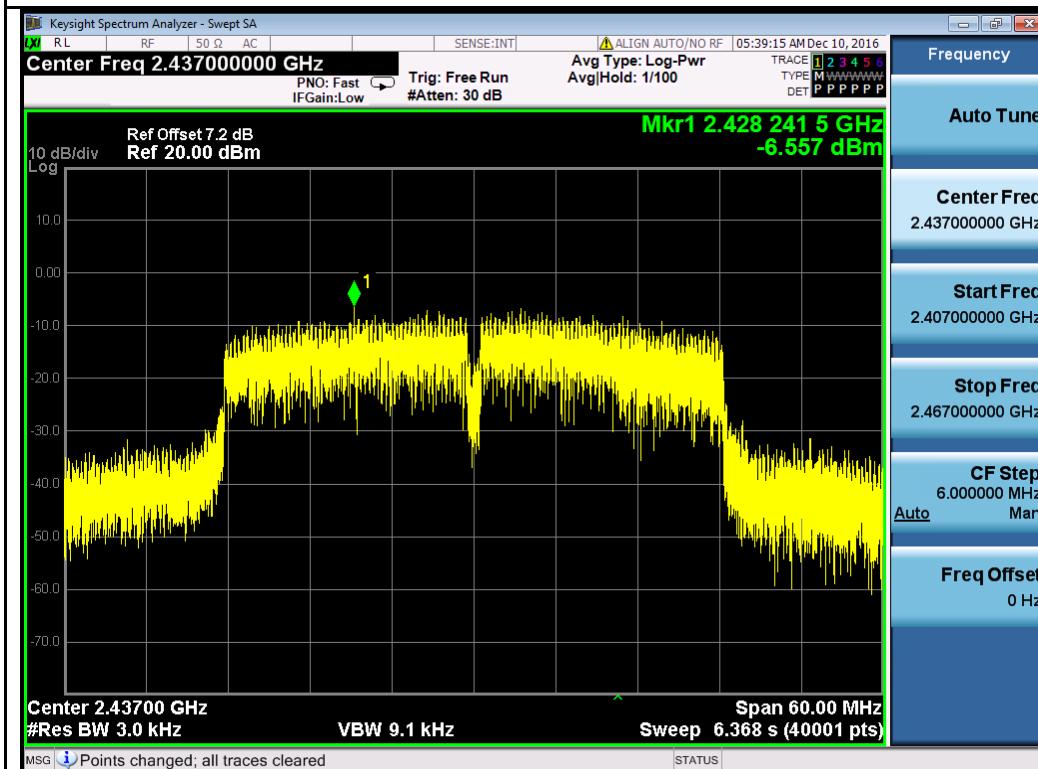
802.11n-HT40 2422MHz Chain 3



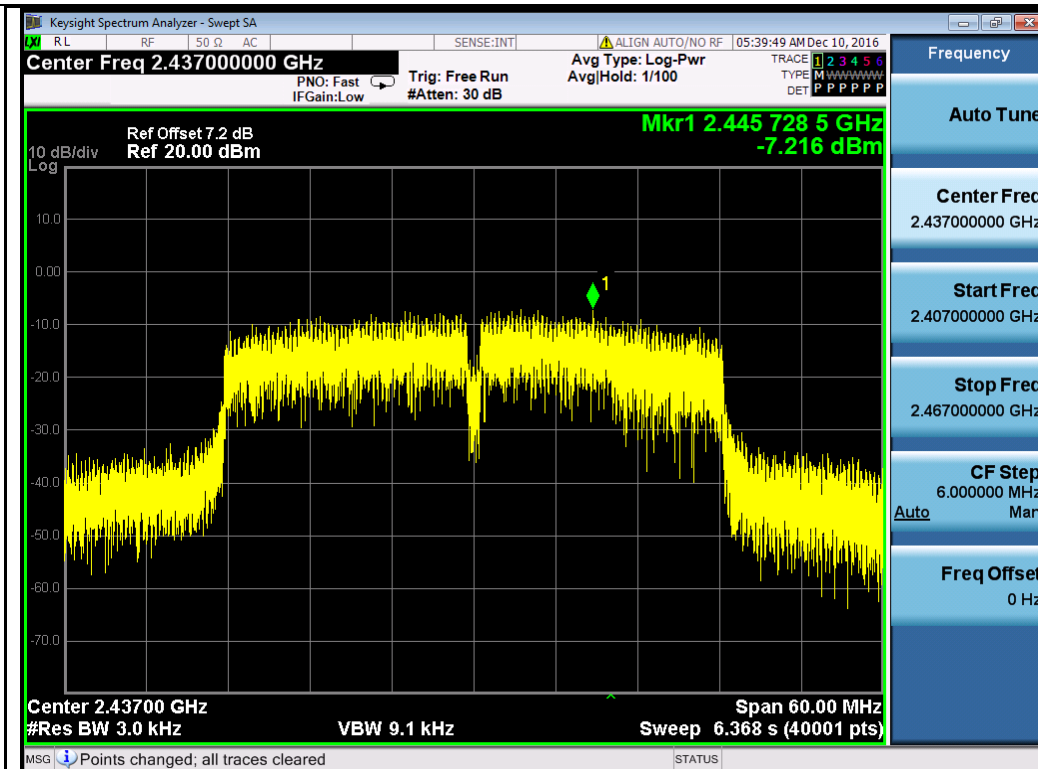
802.11n-HT40 2422MHz Chain 4



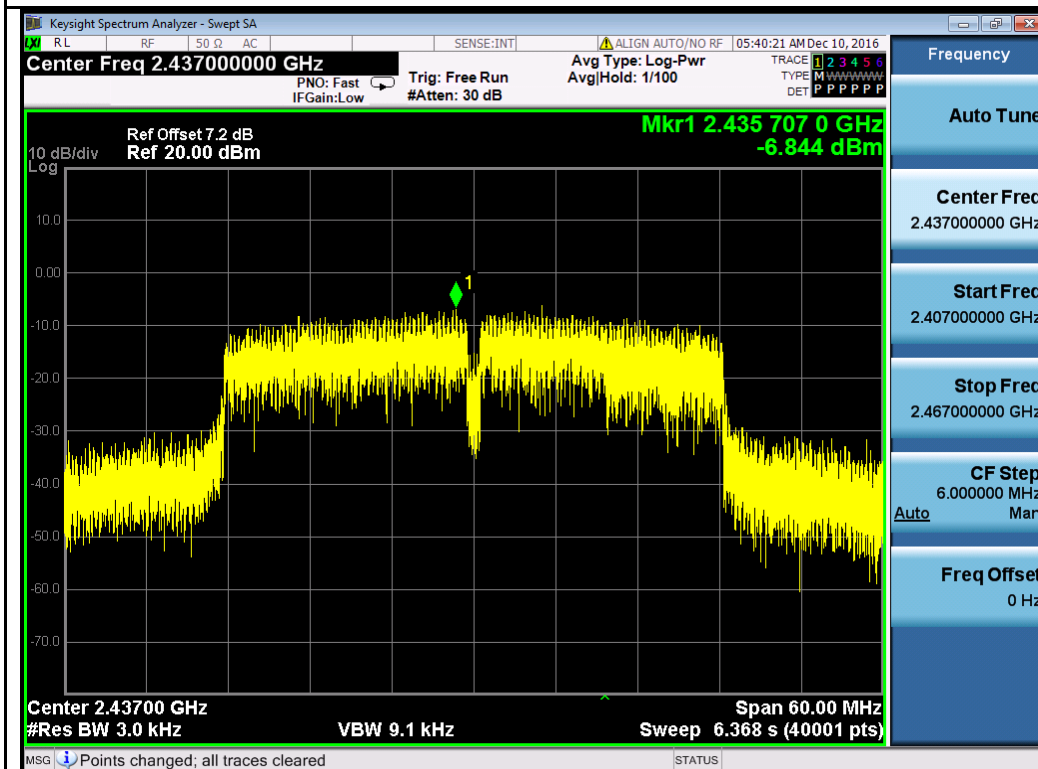
802.11n-HT40 2437MHz Chain 1



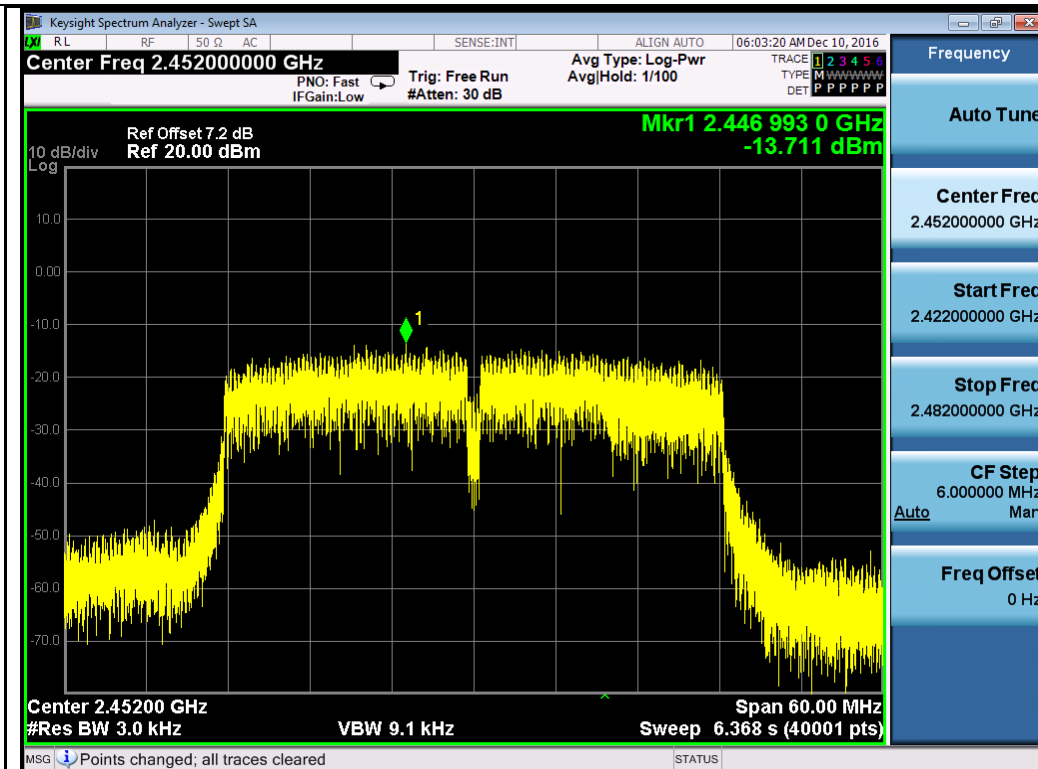
802.11n-HT40 2437MHz Chain 2



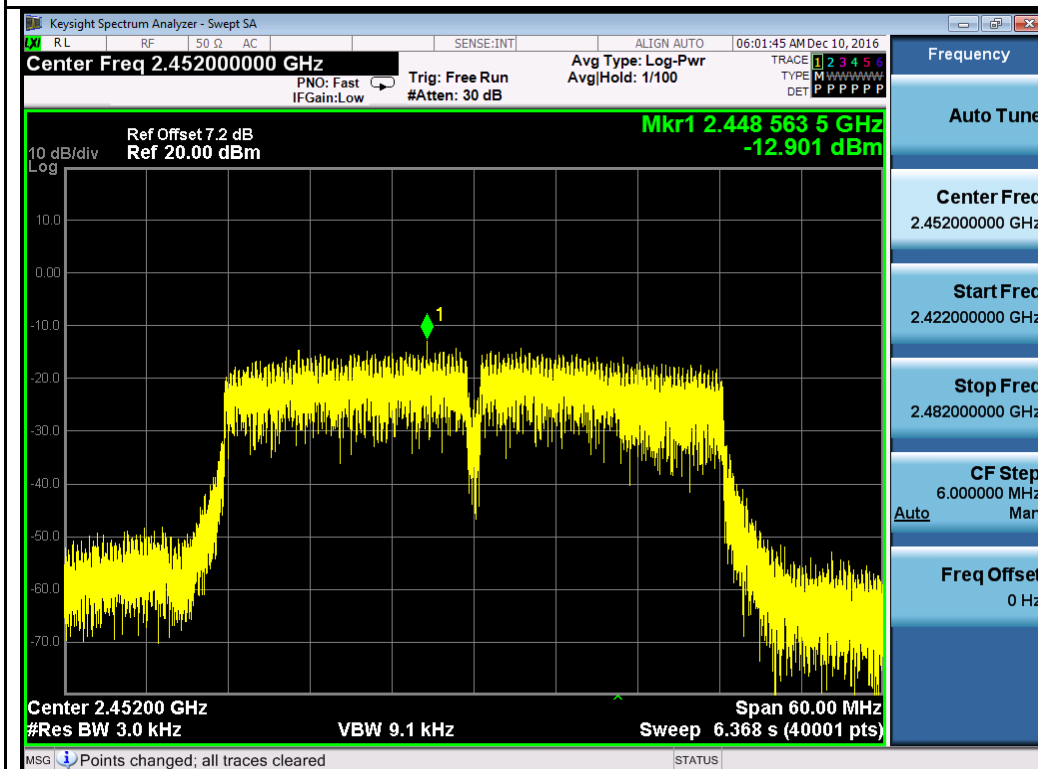
802.11n-HT40 2437MHz Chain 3



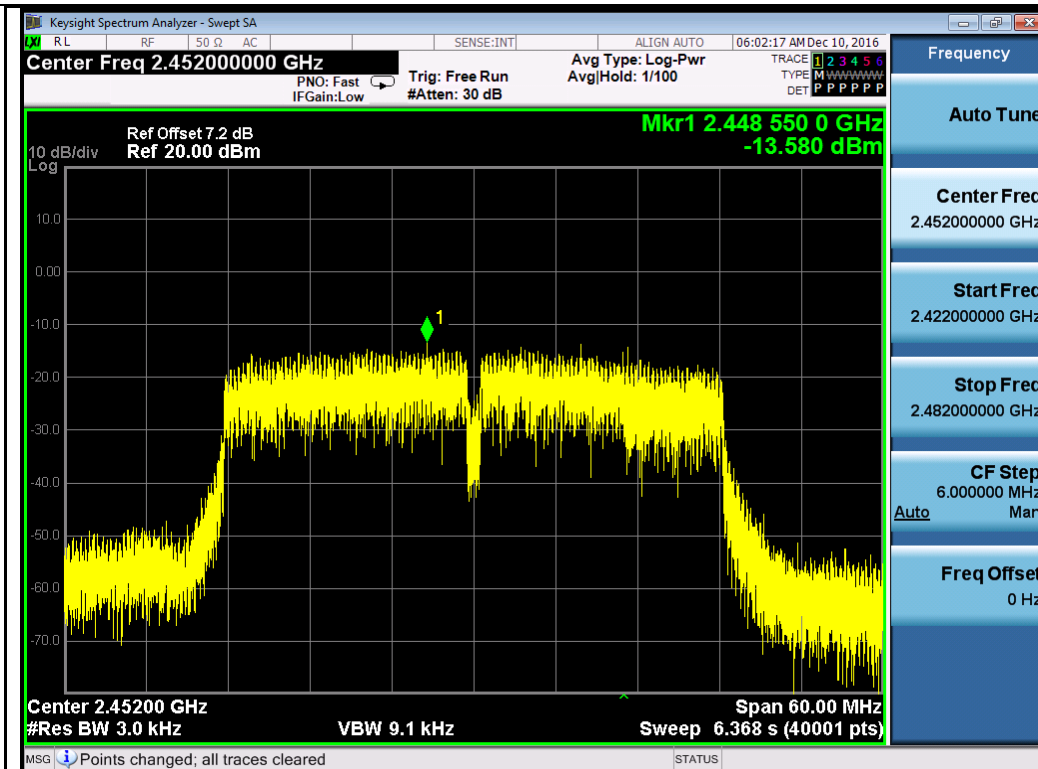
802.11n-HT40 2437MHz Chain 4



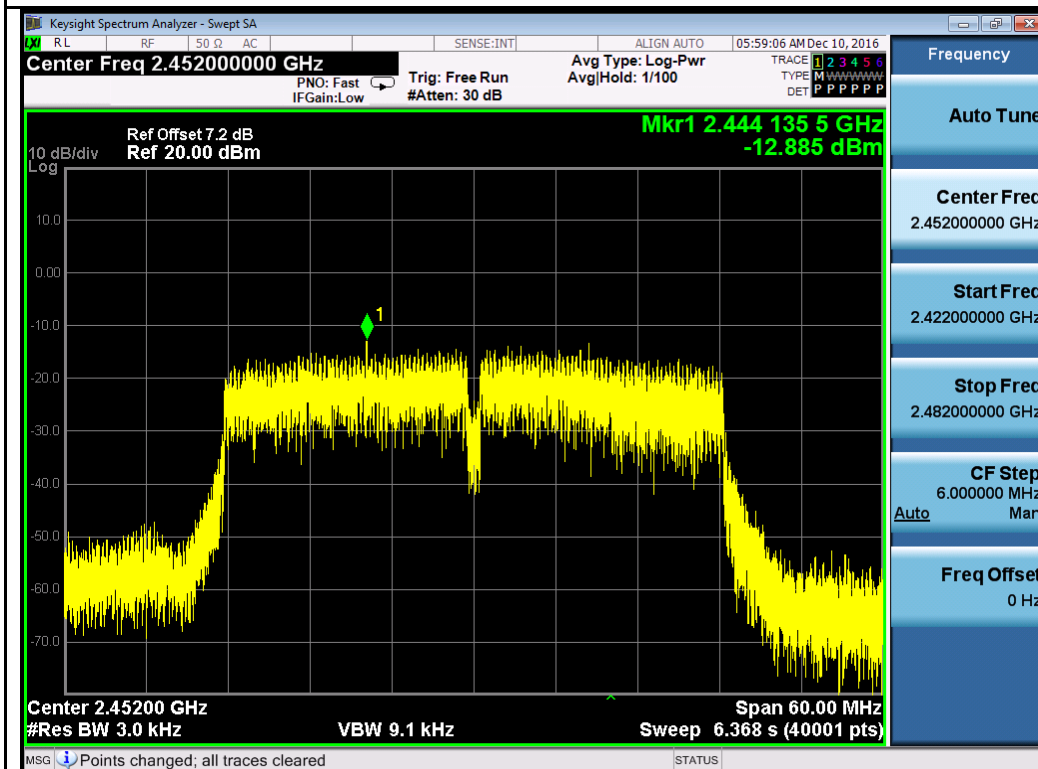
802.11n-HT40 2452MHz Chain 1



802.11n-HT40 2452MHz Chain 2



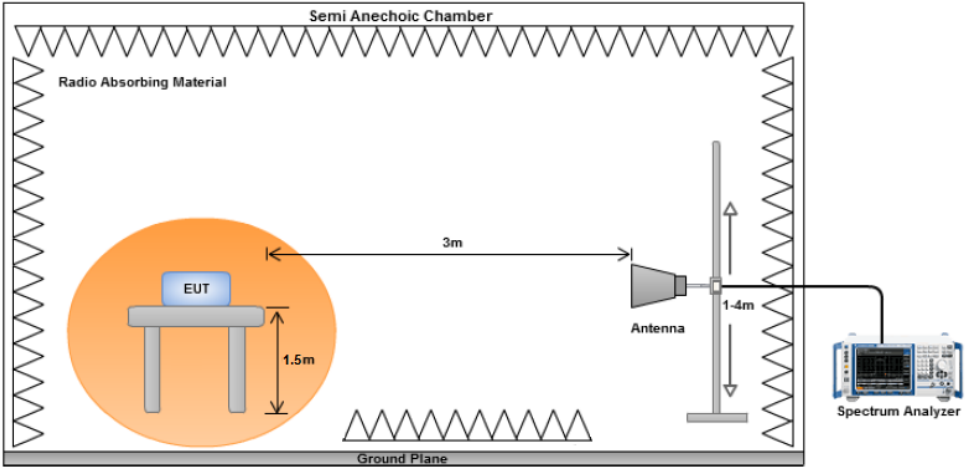
802.11n-HT40 2452MHz Chain 3



802.11n-HT40 2452MHz Chain 4

10.6 Radiated Spurious Emissions in restricted band

Requirement(s):

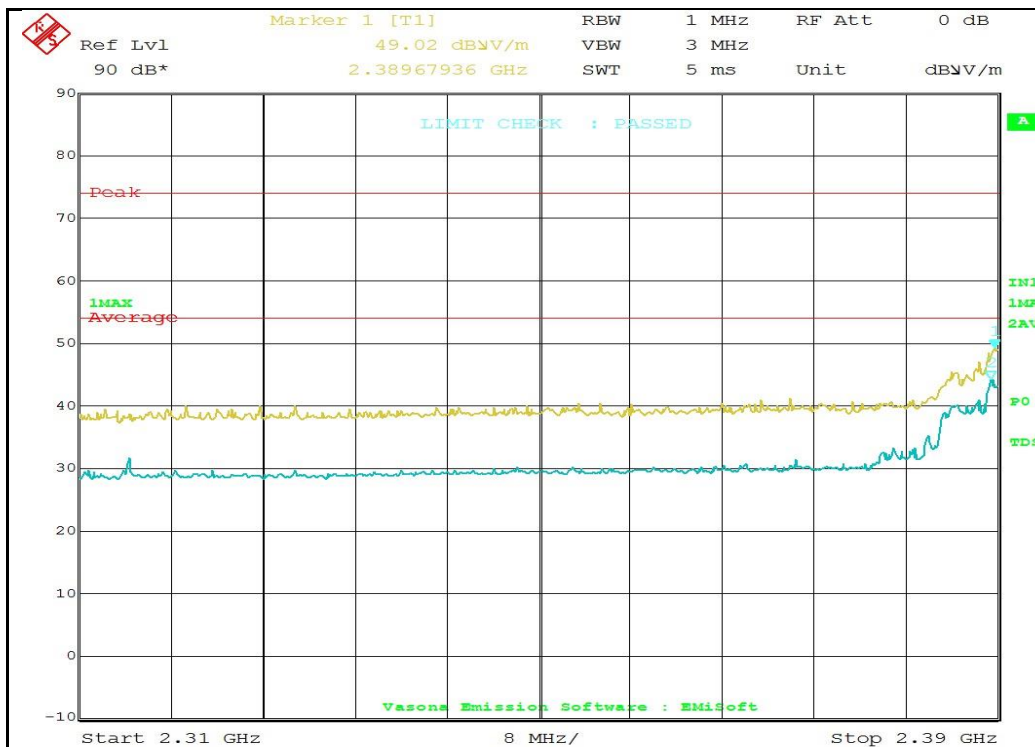
Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(A8.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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

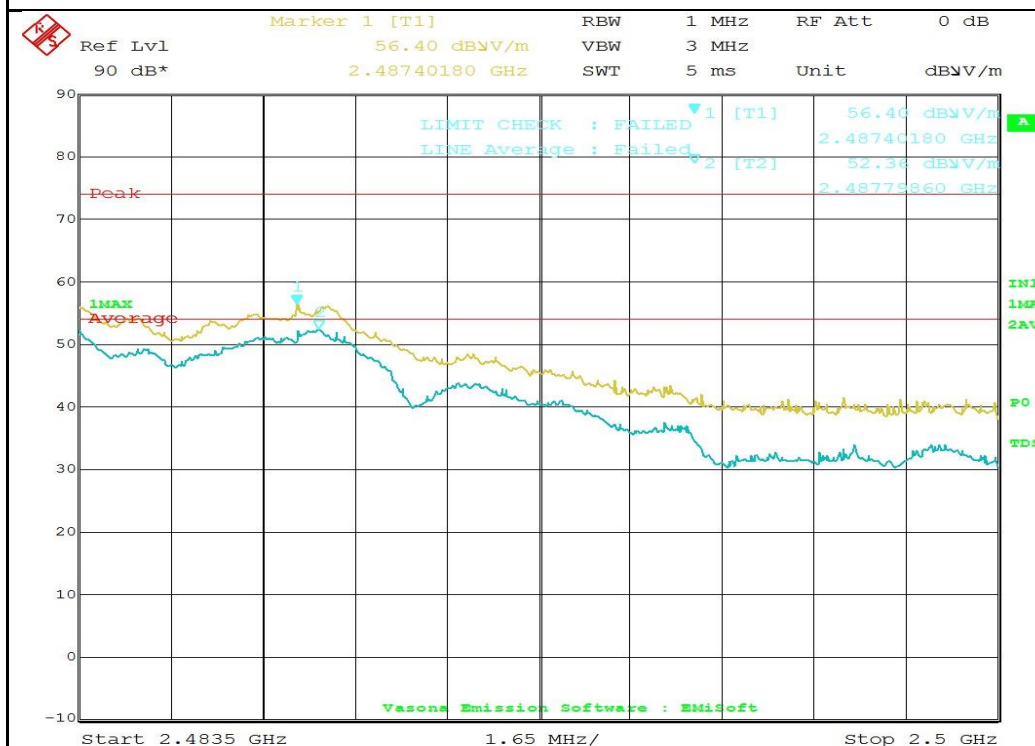
Test was done by Shuo Zhang at 10m chamber.

Restricted Band Measurement Plots:



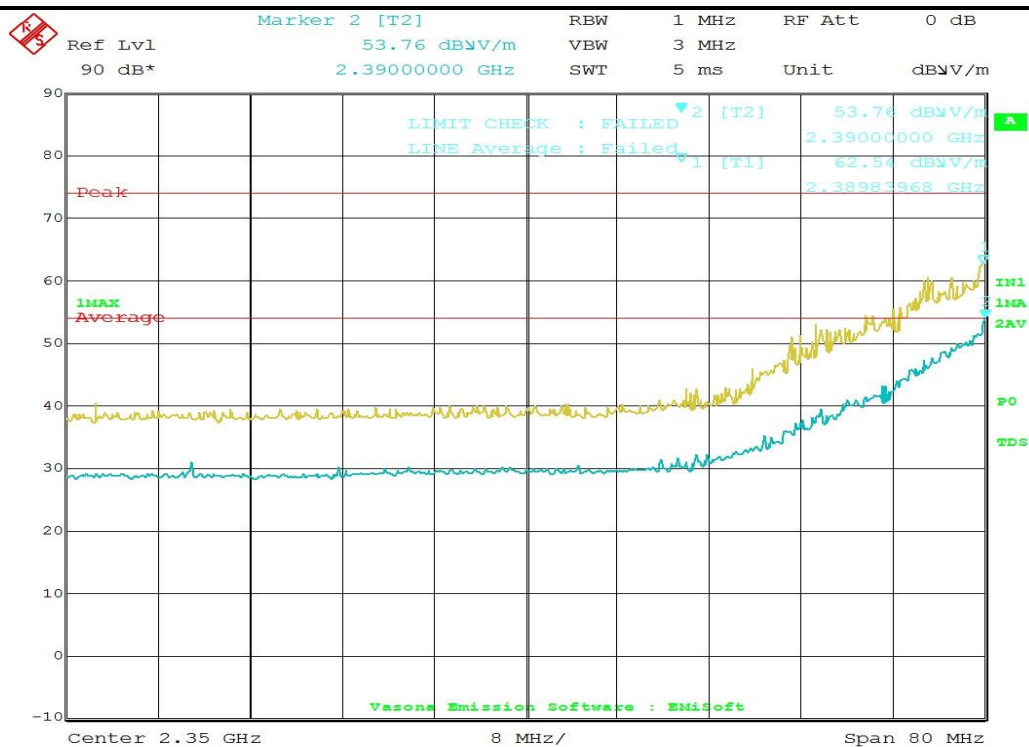
Date: 1.JAN.1997 02:23:36

802.11b-2412MHz



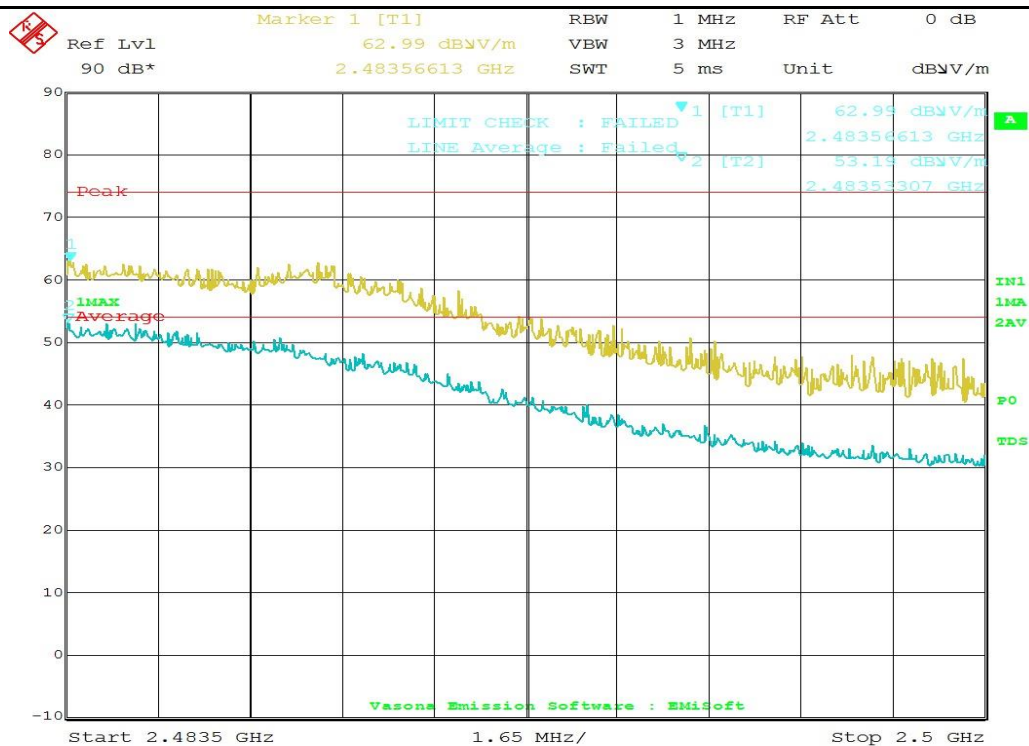
Date: 1.JAN.1997 02:43:21

802.11b-2462MHz



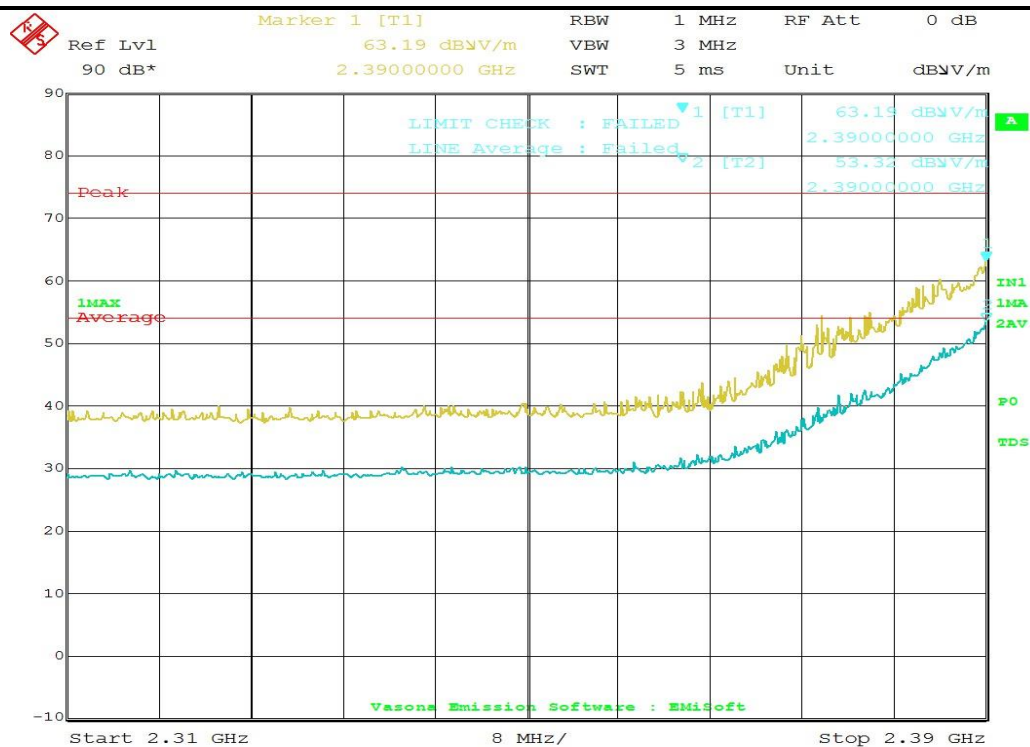
Date: 1.JAN.1997 02:26:42

802.11g-2412MHz



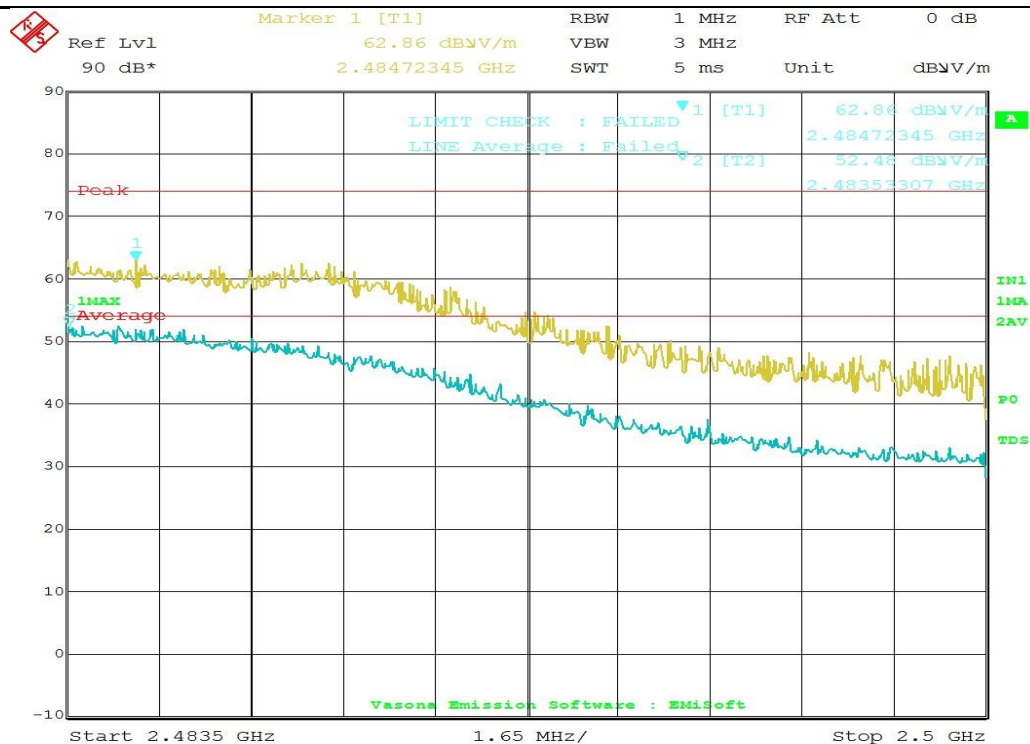
Date: 1.JAN.1997 02:40:20

802.11g-2462MHz



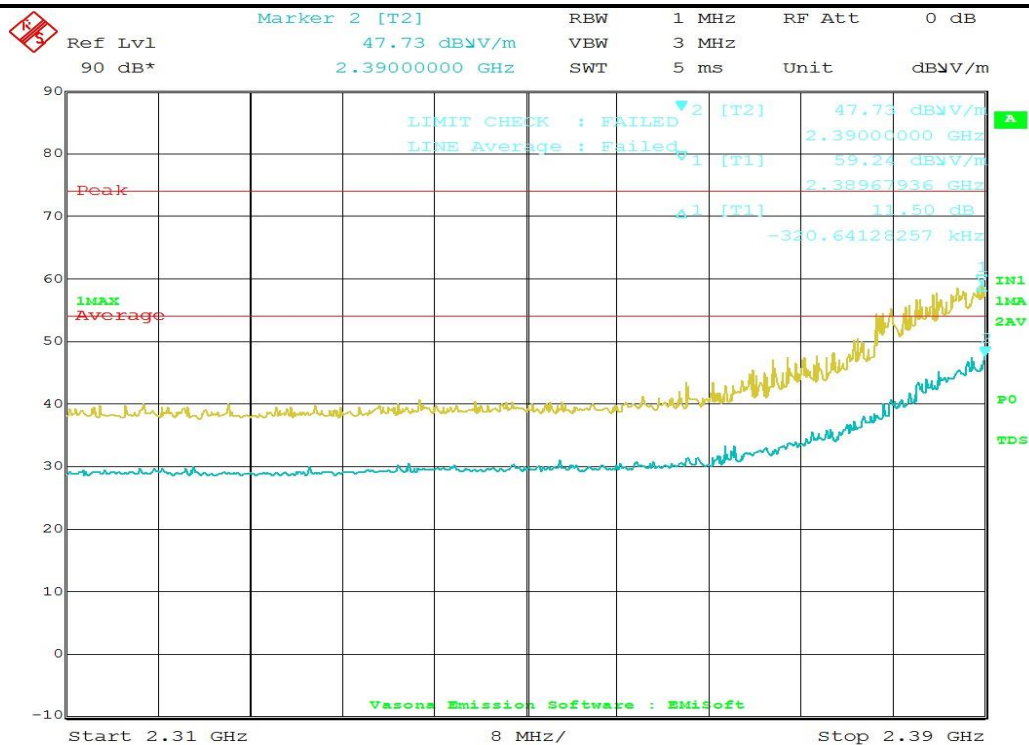
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802.11n-HT20-2412MHz



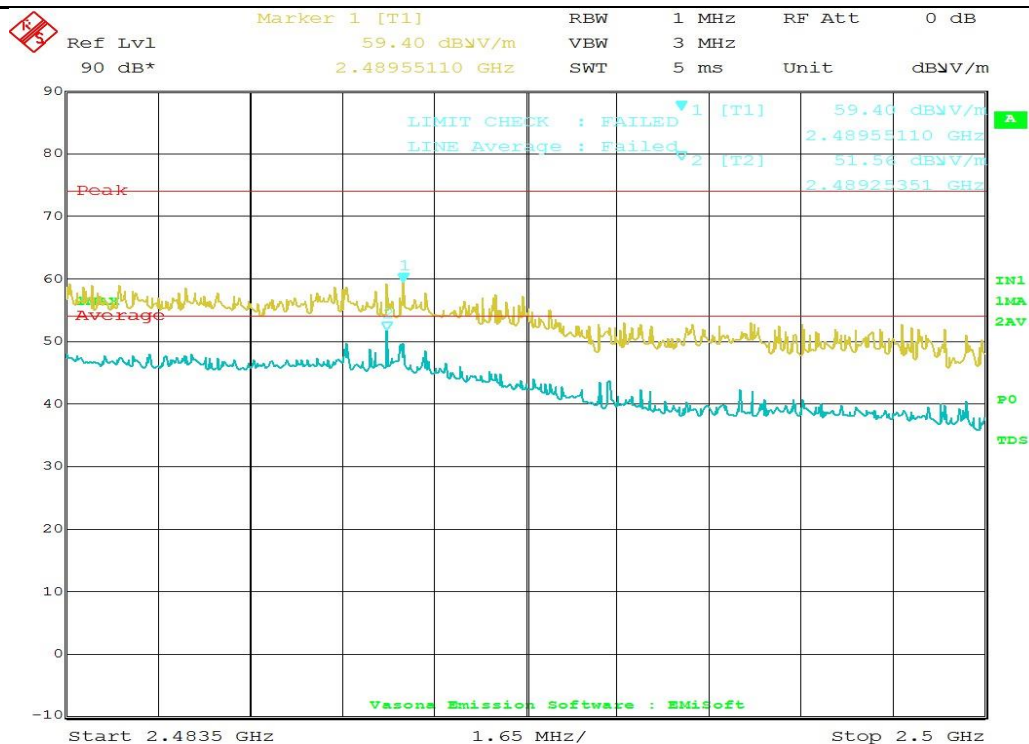
Date: 1.JAN.1997 02:41:20

802.11n-HT20-2462MHz



Date: 1.JAN.1997 02:34:43

802.11n-HT40-2422MHz

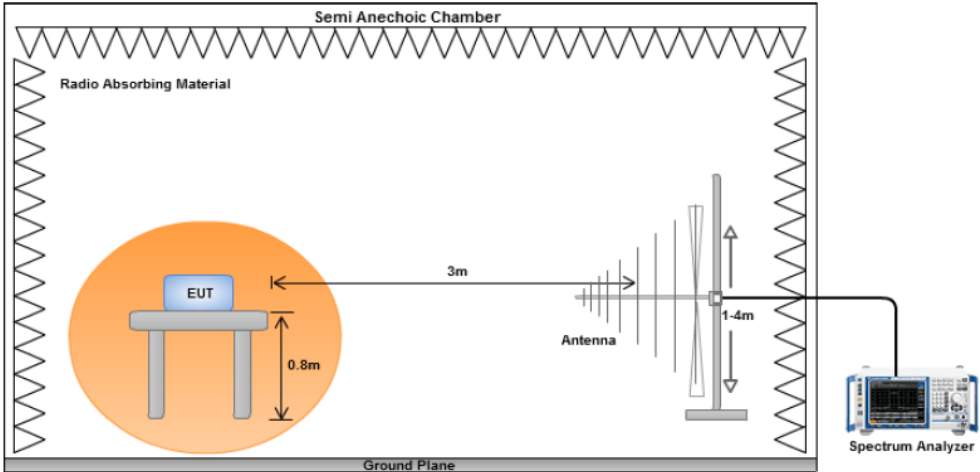


Date: 1.JAN.1997 02:48:36

802.11n-HT40-2452MHz

10.7 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><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
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								

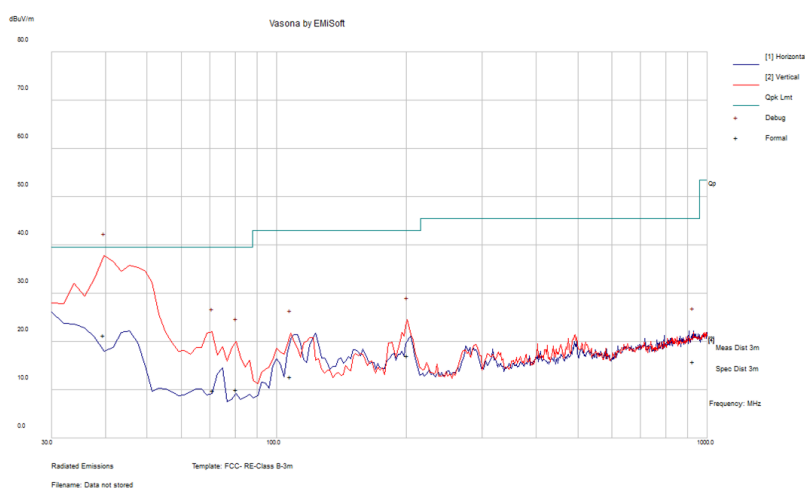
Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Shuo Zhang 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:	Shuo Zhang			
Test Date:	01/11/2017			
Remarks:	802.11n HT40, middle channel			

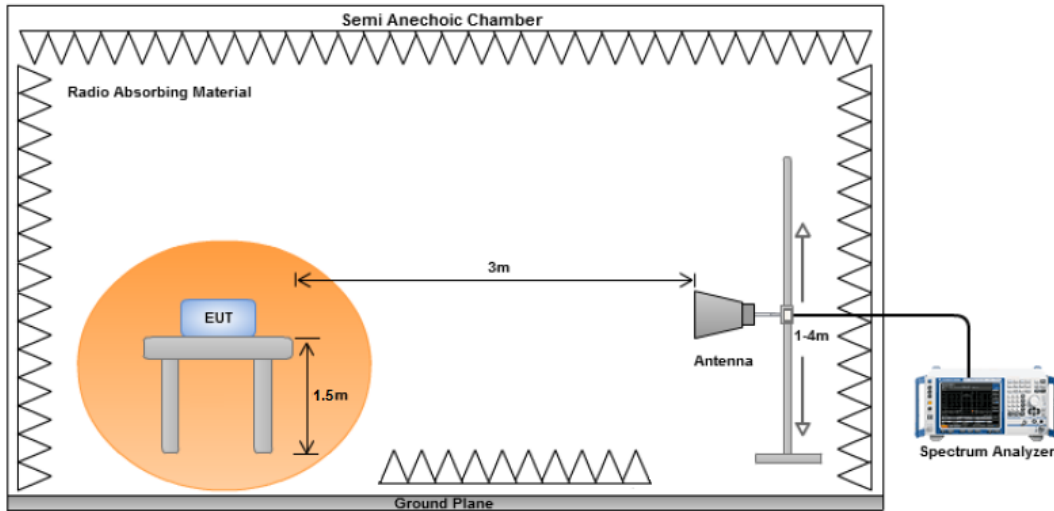


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Polarization	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
39.65	44.58	0.93	-24.15	21.36	Quasi Max	V	133	299	39.5	-18.14	Pass
71.04	39.71	1.26	-31.12	9.85	Quasi Max	V	183	254	39.5	-29.65	Pass
201.06	41.98	2.12	-27.07	17.03	Quasi Max	V	104	240	43	-25.97	Pass
80.55	40.41	1.3	-31.73	9.99	Quasi Max	V	116	168	39.5	-29.51	Pass
107.57	38.91	1.56	-27.79	12.68	Quasi Max	V	124	216	43	-30.32	Pass
927.92	28.18	4.79	-17.13	15.84	Quasi Max	H	171	151	45.5	-29.66	Pass

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

10.8 Radiated Spurious Emissions between 1GHz – 25GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS210(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 Gary Chou 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
1882.58	45.73	3.15	-12.4	36.48	Peak Max	V	113	79	74	-37.52	Pass
4826.09	41.48	4.68	-5.01	41.15	Peak Max	V	100	18	74	-32.85	Pass
7238.15	40.02	5.89	0.02	45.93	Peak Max	V	182	105	74	-28.07	Pass
1882.58	33.41	3.15	-12.4	24.15	Average Max	V	113	79	54	-29.85	Pass
4826.09	28.71	4.68	-5.01	28.39	Average Max	V	100	18	54	-25.61	Pass
7238.15	28.18	5.89	0.02	34.08	Average Max	V	182	105	54	-19.92	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
1885.28	45.6	3.15	-12.38	36.37	Peak Max	V	164	39	74	-37.63	Pass
4874.45	39.72	4.63	-5.09	39.25	Peak Max	V	163	223	74	-34.75	Pass
7310.82	39.33	5.92	0.07	45.31	Peak Max	V	167	134	74	-28.69	Pass
1885.28	33.47	3.15	-12.38	24.23	Average Max	V	164	39	54	-29.77	Pass
4874.45	28.01	4.63	-5.09	27.54	Average Max	V	163	223	54	-26.46	Pass
7310.82	27.98	5.92	0.07	33.96	Average Max	V	167	134	54	-20.04	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
1885.25	44.99	3.15	-12.38	35.75	Peak Max	V	164	338	74	-38.25	Pass
4923.72	38.17	4.57	-5.14	37.6	Peak Max	V	129	158	74	-36.4	Pass
7391.66	40.47	5.95	-0.27	46.15	Peak Max	V	99	176	74	-27.85	Pass
1885.25	33.48	3.15	-12.38	24.24	Average Max	V	164	338	54	-29.76	Pass
4923.72	26.98	4.57	-5.14	26.42	Average Max	V	129	158	54	-27.59	Pass
7391.66	27.83	5.95	-0.27	33.51	Average Max	V	99	176	54	-20.49	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
1884.03	45.45	3.15	-12.39	36.21	Peak Max	V	194	283	74	-37.79	Pass
4822.51	39.56	4.69	-5	39.25	Peak Max	V	182	264	74	-34.76	Pass
7237.63	40.1	5.89	0.02	46	Peak Max	V	155	128	74	-28	Pass
1884.03	33.52	3.15	-12.39	24.27	Average Max	V	194	283	54	-29.73	Pass
4822.51	27.18	4.69	-5	26.87	Average Max	V	182	264	54	-27.13	Pass
7237.63	28.15	5.89	0.02	34.06	Average Max	V	155	128	54	-19.94	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
1869.92	45.17	3.13	-12.49	35.81	Peak Max	V	137	132	74	-38.19	Pass
4880.51	39.54	4.62	-5.1	39.05	Peak Max	V	132	250	74	-34.95	Pass
7312.18	39.9	5.92	0.06	45.88	Peak Max	V	100	159	74	-28.12	Pass
1869.92	33.18	3.13	-12.49	23.82	Average Max	V	137	132	54	-30.18	Pass
4880.51	28.02	4.62	-5.1	27.54	Average Max	V	132	250	54	-26.46	Pass
7312.18	28.13	5.92	0.06	34.11	Average Max	V	100	159	54	-19.89	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
1907.36	45.26	3.17	-12.24	36.19	Peak Max	V	148	104	74	-37.81	Pass
3520.18	43.48	4.29	-7.3	40.47	Peak Max	V	171	154	74	-33.53	Pass
10985.27	41.53	7.57	1.92	51.02	Peak Max	V	135	138	74	-22.98	Pass
1907.36	33.42	3.17	-12.24	24.35	Average Max	V	148	104	54	-29.65	Pass
3520.18	31.38	4.29	-7.3	28.37	Average Max	V	171	154	54	-25.63	Pass
10985.27	28.42	7.57	1.92	37.91	Average Max	V	135	138	54	-16.09	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
1915.66	45.09	3.18	-12.2	36.07	Peak Max	V	175	356	74	-37.93	Pass
4826.50	40.25	4.68	-5.01	39.92	Peak Max	V	110	101	74	-34.08	Pass
7238.66	39.82	5.89	0.02	45.73	Peak Max	V	151	221	74	-28.28	Pass
1915.66	33.17	3.18	-12.2	24.15	Average Max	V	175	356	54	-29.85	Pass
4826.50	28.83	4.68	-5.01	28.5	Average Max	V	110	101	54	-25.5	Pass
7238.66	28.15	5.89	0.02	34.06	Average Max	V	151	221	54	-19.94	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
1918.23	44.16	3.18	-12.19	35.15	Peak Max	V	115	213	74	-38.85	Pass
4881.27	41.67	4.62	-5.1	41.19	Peak Max	V	105	234	74	-32.81	Pass
7239.94	40.08	5.89	0.02	46	Peak Max	V	99	215	74	-28.01	Pass
1918.23	33	3.18	-12.19	24	Average Max	V	115	213	54	-30.01	Pass
4881.27	29.68	4.62	-5.1	29.19	Average Max	V	105	234	54	-24.81	Pass
7239.94	28.33	5.89	0.02	34.24	Average Max	V	99	215	54	-19.76	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
1896.99	45.44	3.16	-12.3	36.29	Peak Max	V	181	163	74	-37.71	Pass
4928.91	40.03	4.56	-5.13	39.45	Peak Max	V	102	251	74	-34.55	Pass
7392.57	39.48	5.95	-0.27	45.16	Peak Max	V	161	141	74	-28.84	Pass
1896.99	33.64	3.16	-12.3	24.5	Average Max	V	181	163	54	-29.5	Pass
4928.91	28.54	4.56	-5.13	27.96	Average Max	V	102	251	54	-26.04	Pass
7392.57	27.87	5.95	-0.27	33.55	Average Max	V	161	141	54	-20.45	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
1896.32	44.83	3.16	-12.31	35.68	Peak Max	V	100	284	74	-38.32	Pass
4828.64	40.89	4.68	-5.01	40.55	Peak Max	V	195	15	74	-33.45	Pass
7311.08	40.59	5.92	0.06	46.57	Peak Max	V	144	89	74	-27.43	Pass
1896.32	33.56	3.16	-12.31	24.41	Average Max	V	100	284	54	-29.59	Pass
4828.64	28.63	4.68	-5.01	28.3	Average Max	V	195	15	54	-25.7	Pass
7311.08	28.05	5.92	0.06	34.03	Average Max	V	144	89	54	-19.97	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
1894.81	45.32	3.16	-12.32	36.16	Peak Max	V	159	21	74	-37.84	Pass
4882.47	41.79	4.62	-5.11	41.3	Peak Max	V	106	211	74	-32.7	Pass
7312.30	39.77	5.92	0.06	45.75	Peak Max	V	147	338	74	-28.25	Pass
1894.81	33.67	3.16	-12.32	24.51	Average Max	V	159	21	54	-29.49	Pass
4882.47	29.8	4.62	-5.11	29.31	Average Max	V	106	211	54	-24.69	Pass
7312.30	28.07	5.92	0.06	34.05	Average Max	V	147	338	54	-19.95	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
1897.33	45.78	3.16	-12.3	36.64	Peak Max	V	146	272	74	-37.36	Pass
4937.79	41.45	4.55	-5.13	40.87	Peak Max	V	107	128	74	-33.13	Pass
7390.66	40.41	5.95	-0.27	46.1	Peak Max	V	155	125	74	-27.9	Pass
1897.33	33.58	3.16	-12.3	24.44	Average Max	V	146	272	54	-29.56	Pass
4937.79	28.63	4.55	-5.13	28.05	Average Max	V	107	128	54	-25.95	Pass
7390.66	27.86	5.95	-0.27	33.54	Average Max	V	155	125	54	-20.46	Pass

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Conducted Emissions						
R & S Receiver	ESIB 40	100179	06/08/2016	1 Year	06/08/2017	☒
CHASE LISN	MN2050B	1018	08/07/2016	1 Year	08/07/2017	☒
Radiated Emissions						
R & S Receiver	ESIB 40	1018	08/07/2016	1 Year	08/07/2017	☒
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	08/12/2016	1 Year	08/12/2017	☒
Horn Antenna (1GHz~26GHz)	3115	100059	08/25/2016	1 Year	08/25/2017	☒
3 Meters SAC	3M	N/A	08/08/2016	1 Year	08/08/2017	☒
10 Meters SAC	10M	N/A	09/05/2016	1 Year	09/05/2017	☒
RF Conducted Measurement						
Spectrum Analyzer	N9010A	10SL0219	08/20/2016	1 Year	08/20/2017	☒
R & S Receiver	ESIB 40	100179	06/08/2016	1 Year	06/08/2017	☒
ETS-Lingren USB RF Power Sensor	7002-006	10SL0190	09/03/2016	1 Year	09/03/2017	☒

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