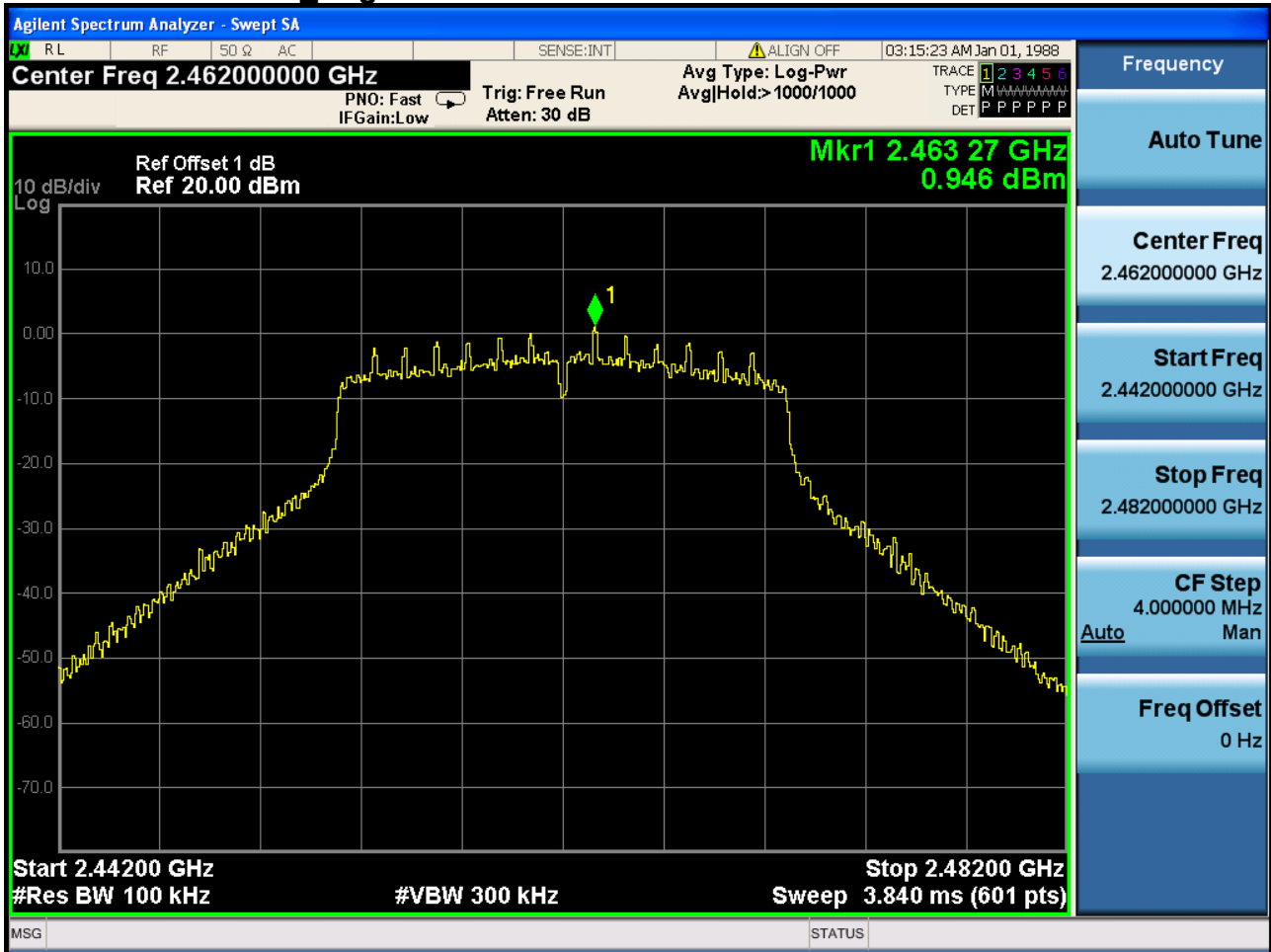


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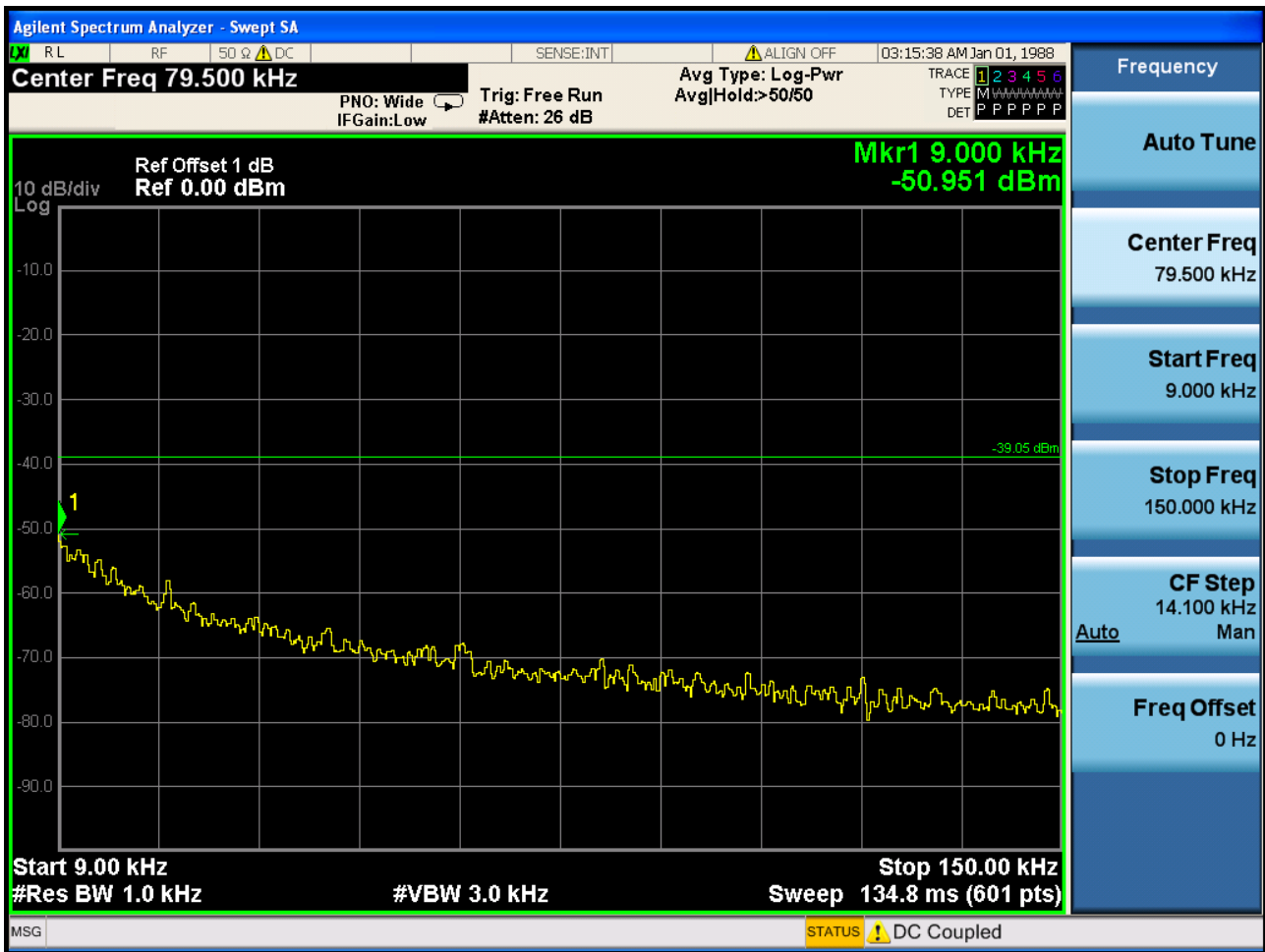
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4.8.1.2.9 802.11 N20\_Highest Channel



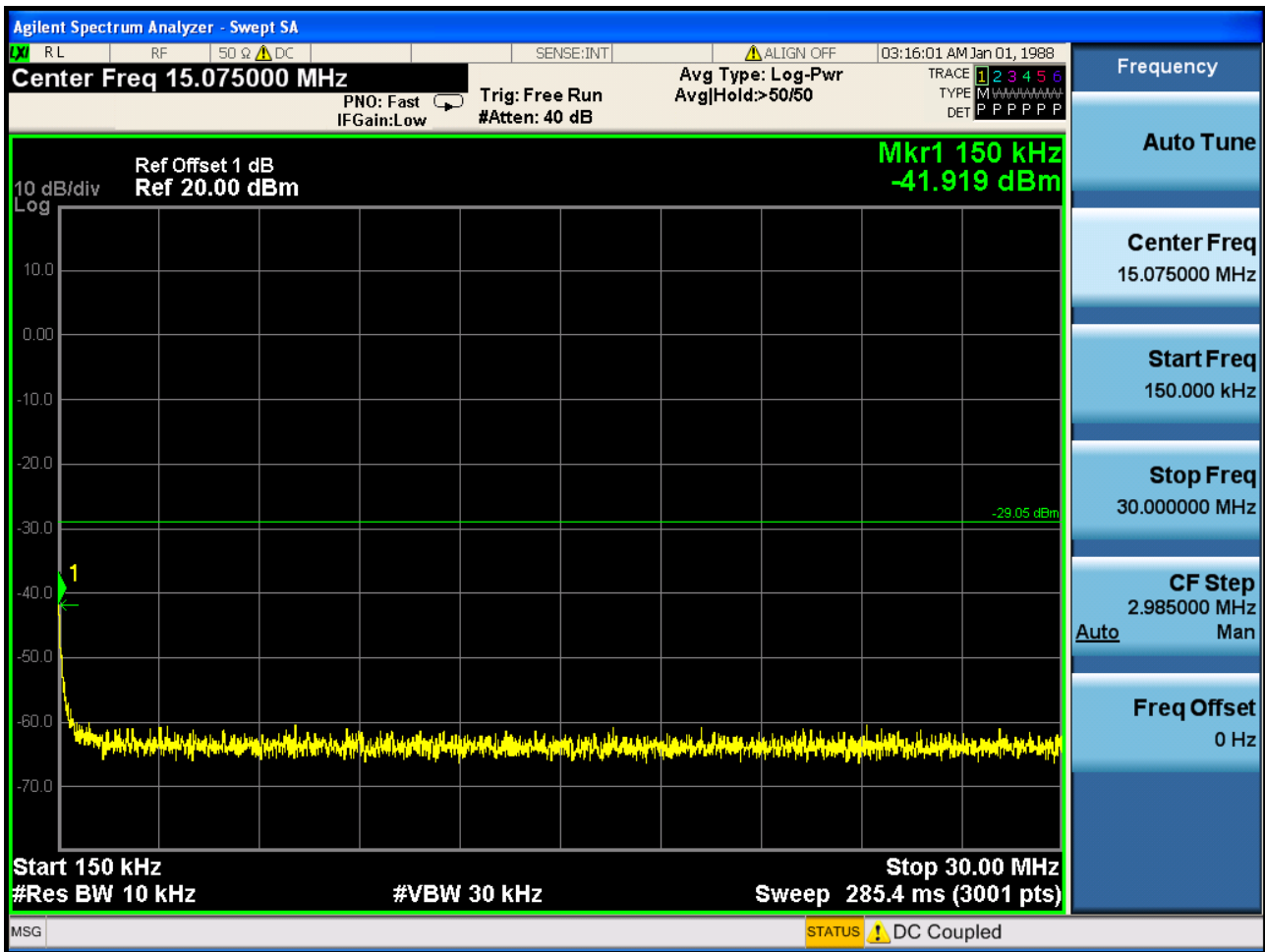
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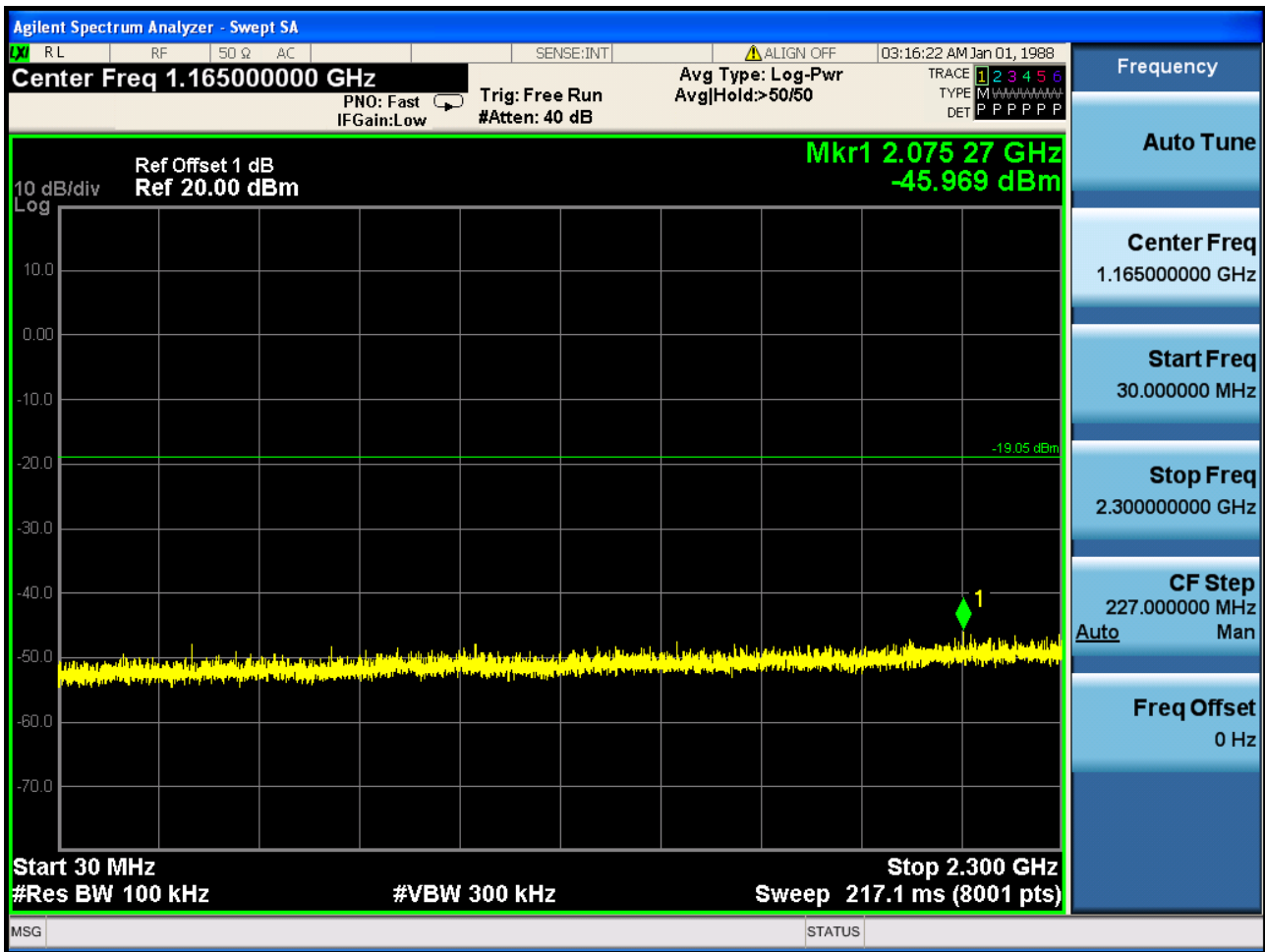
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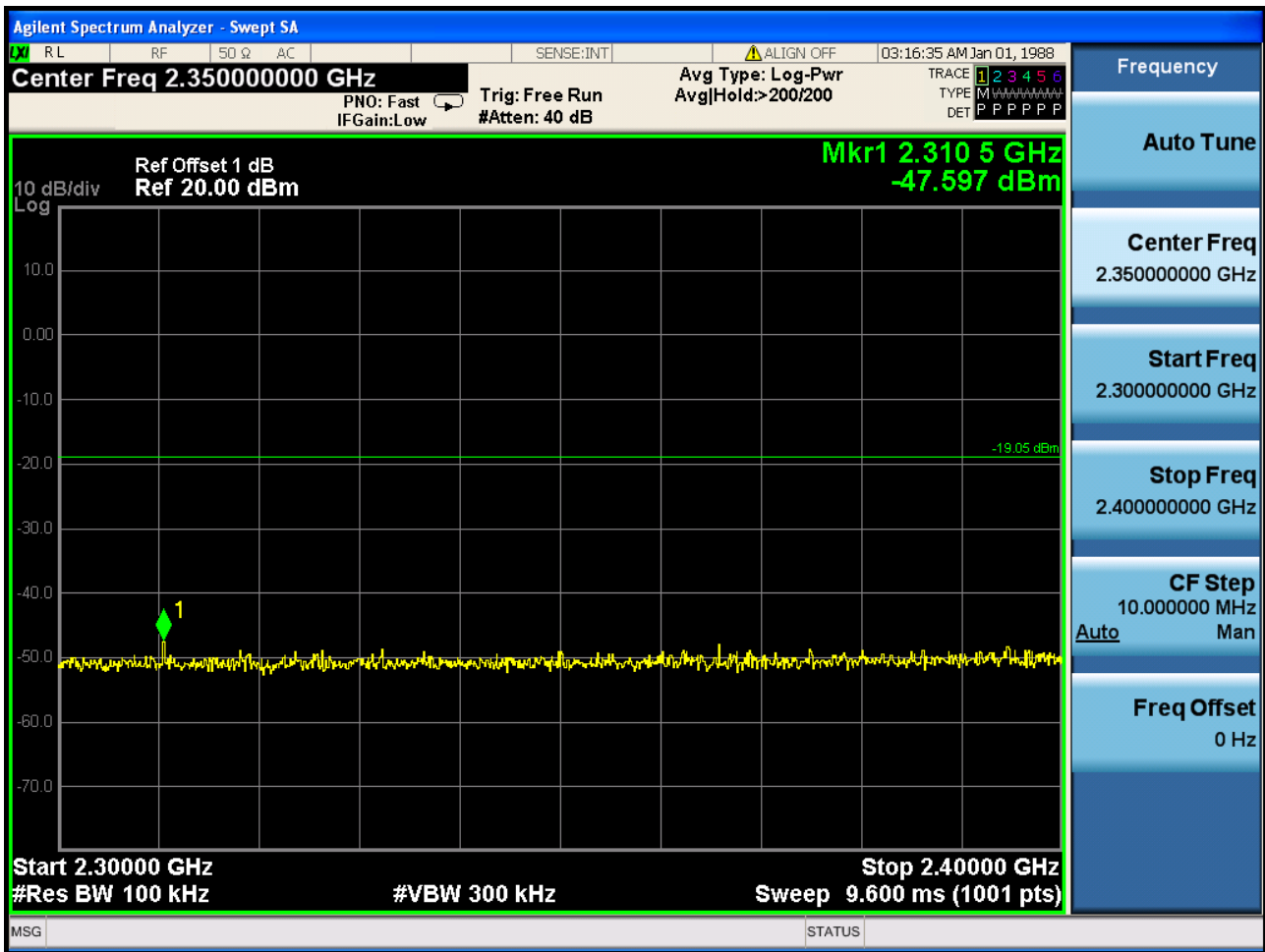
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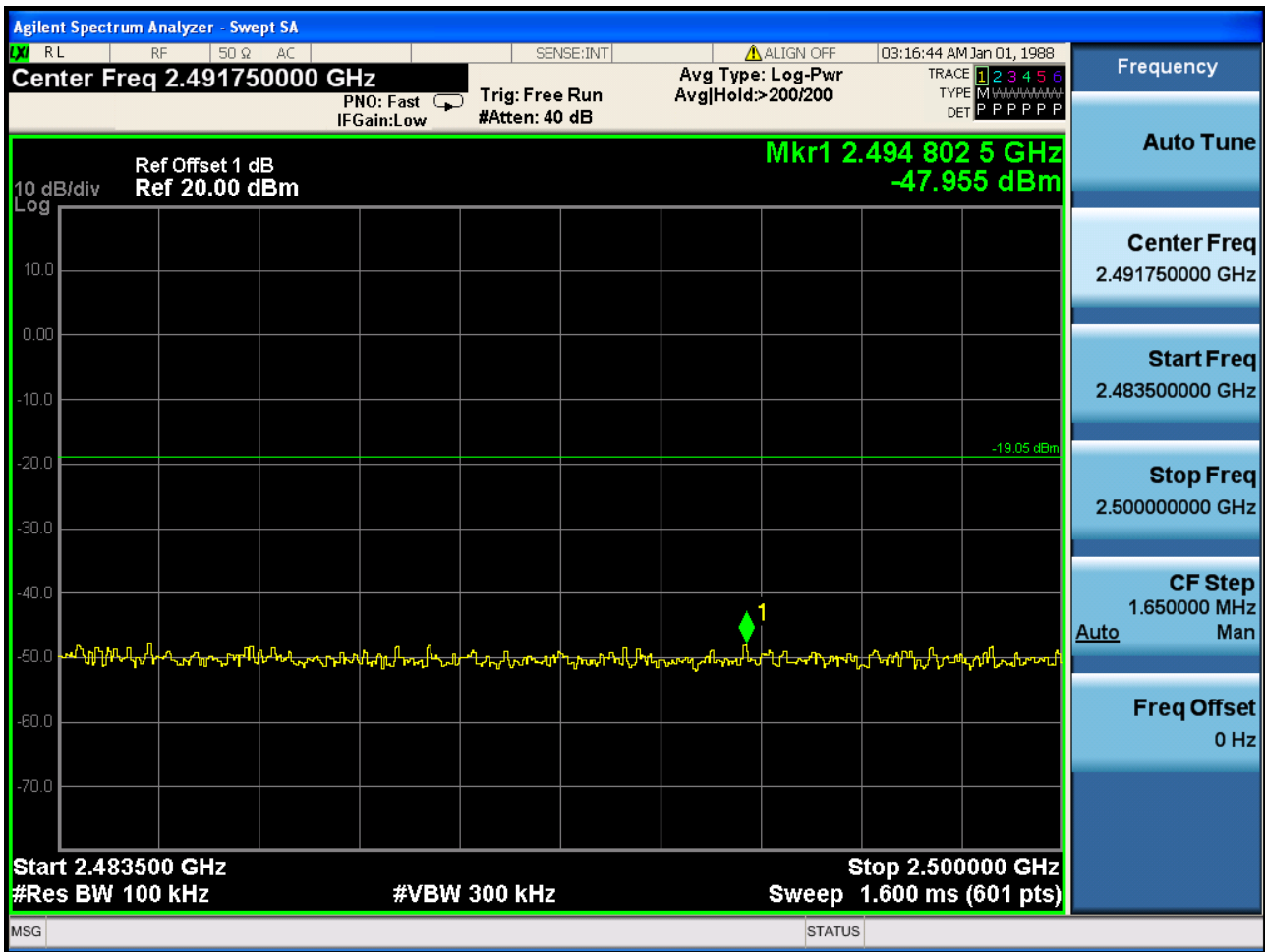
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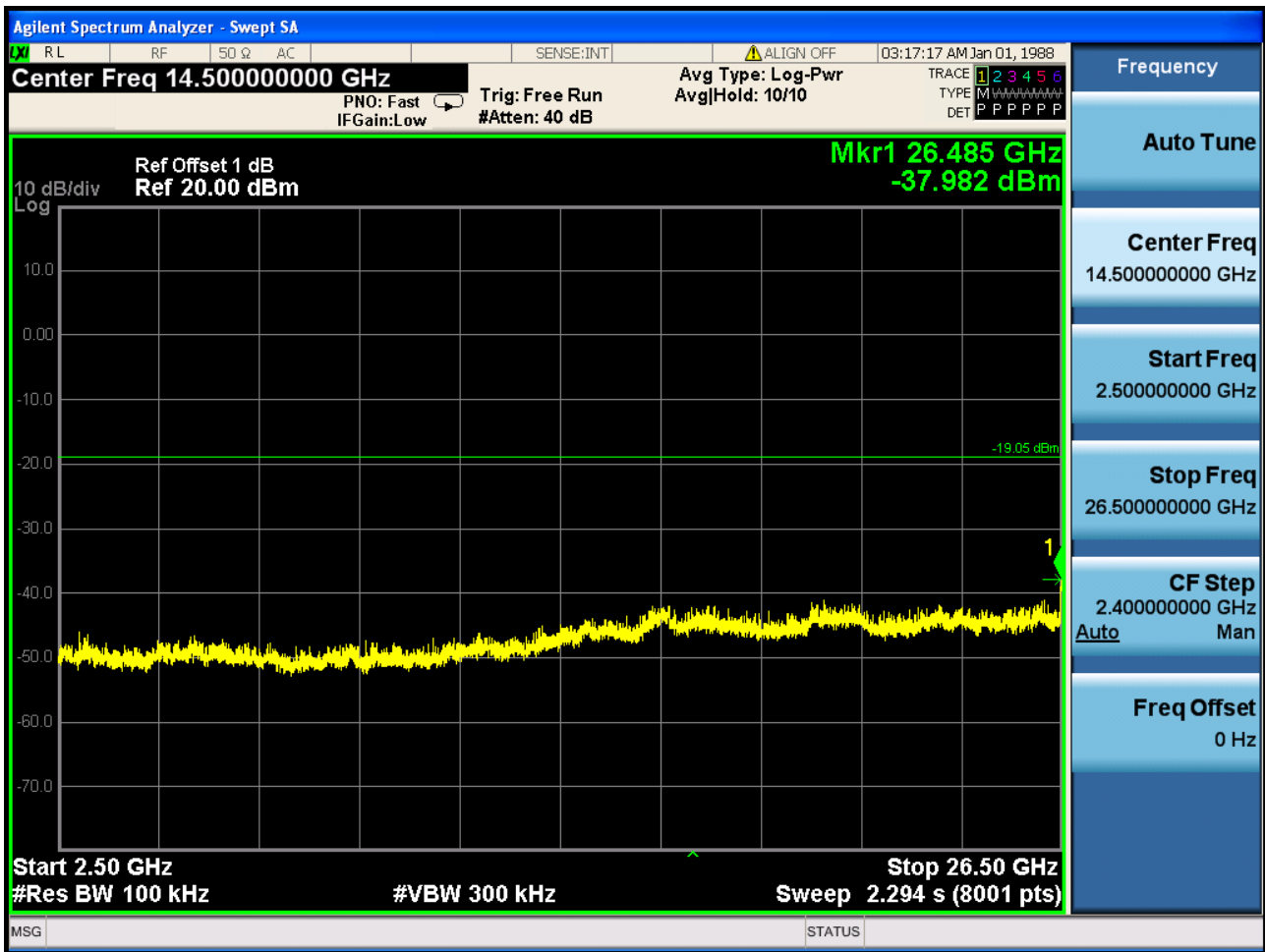
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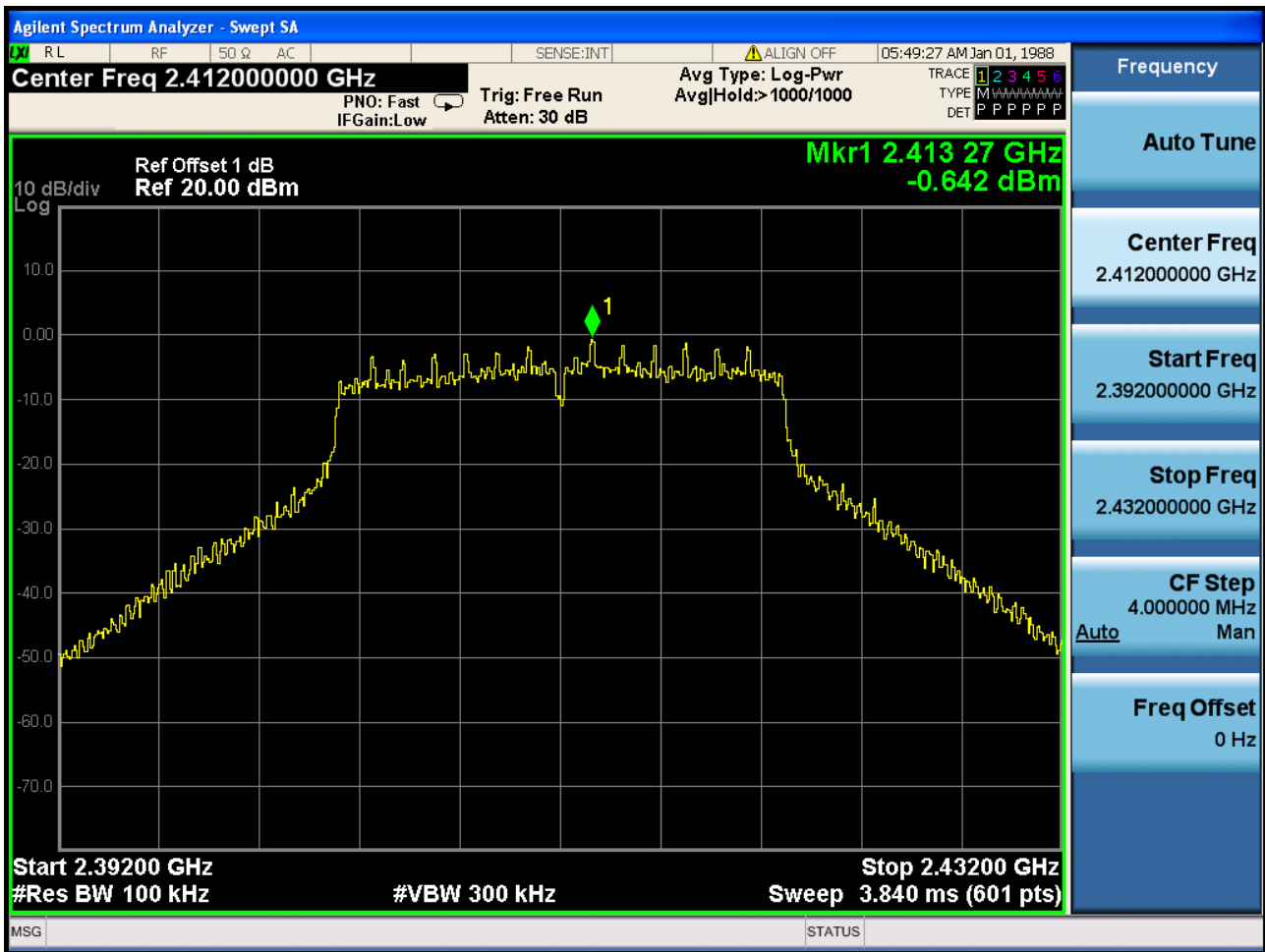
4.8.1.2.10 802.11N20MIMO\_Lowest Channel



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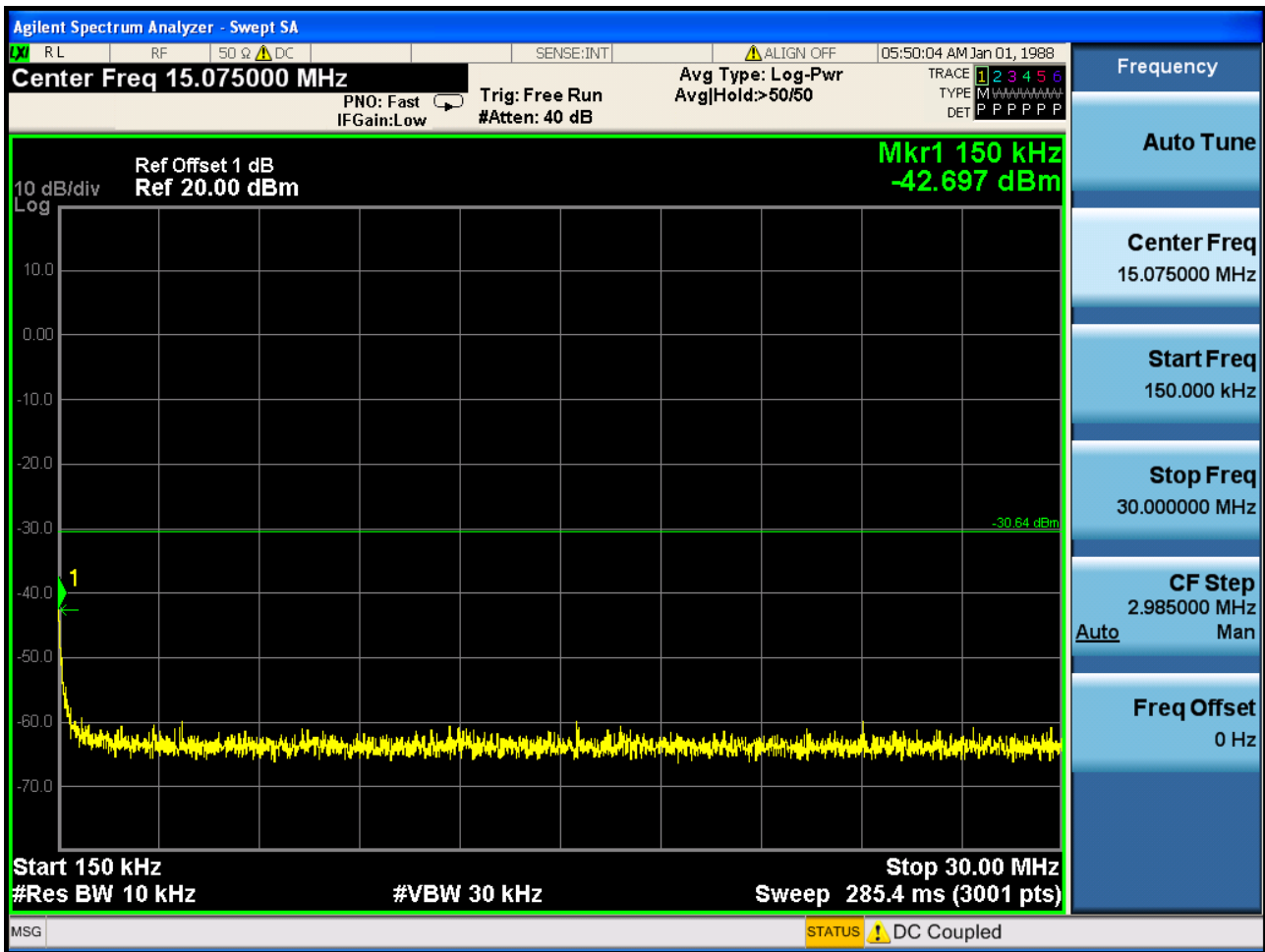
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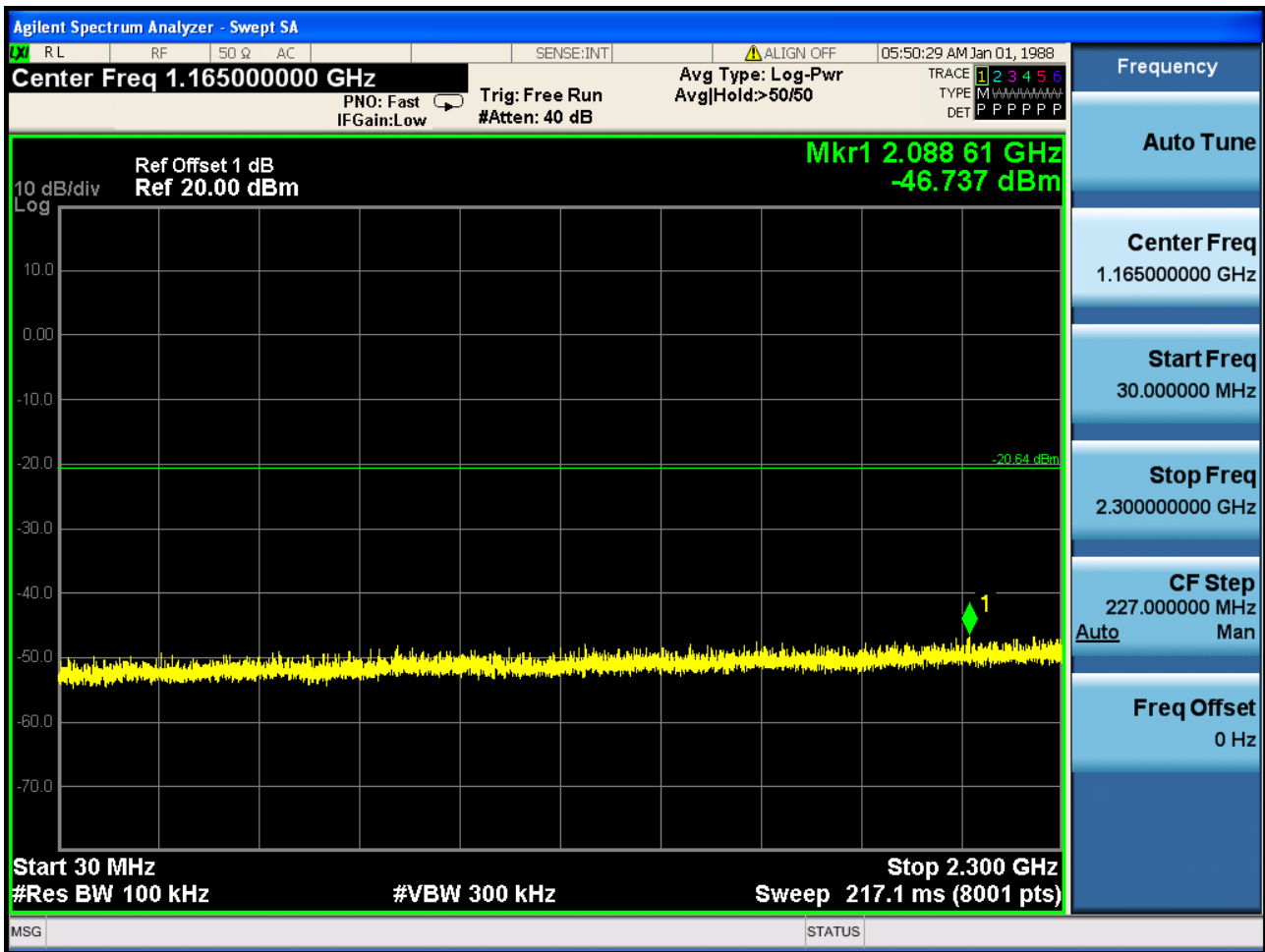
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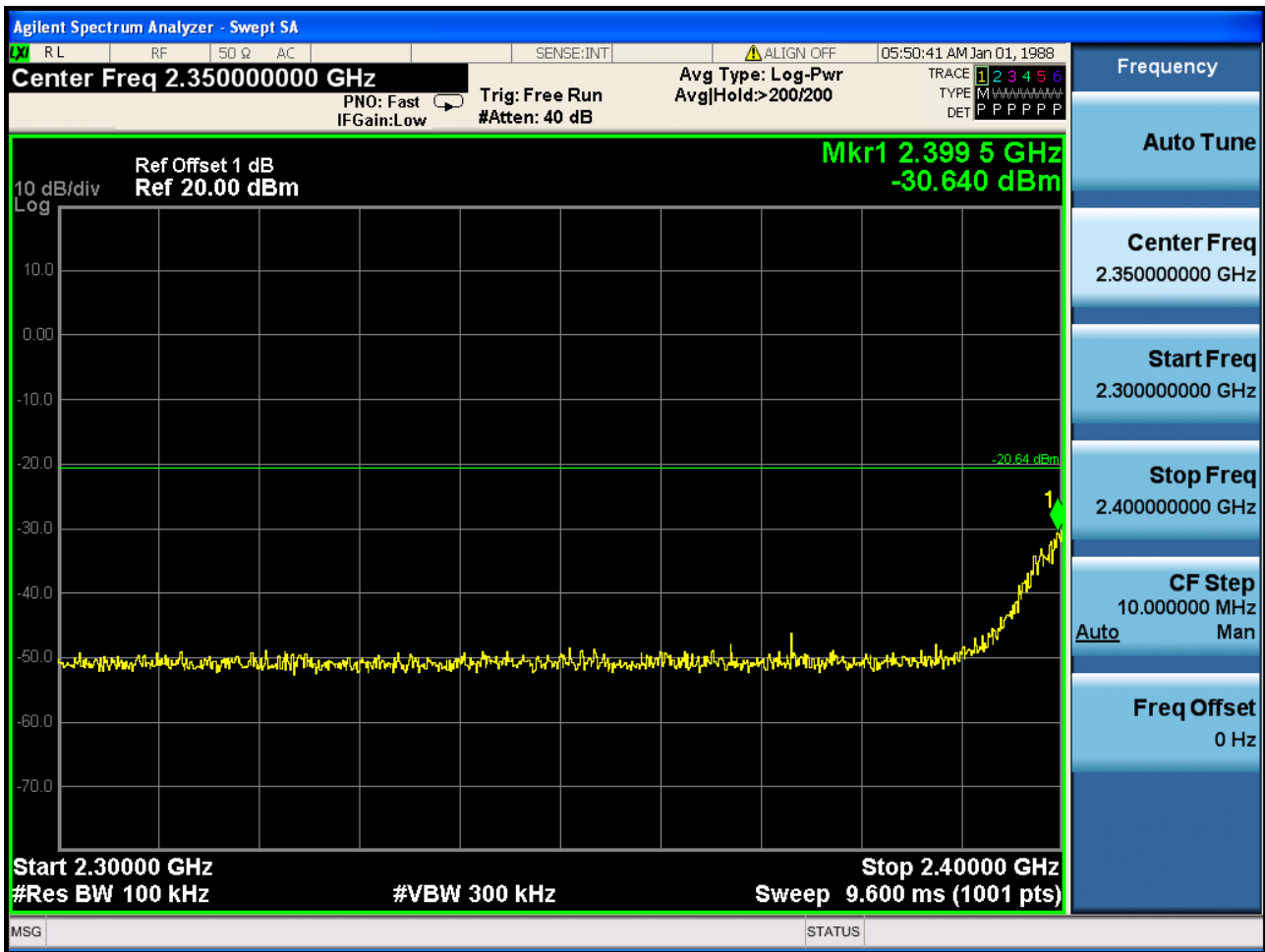
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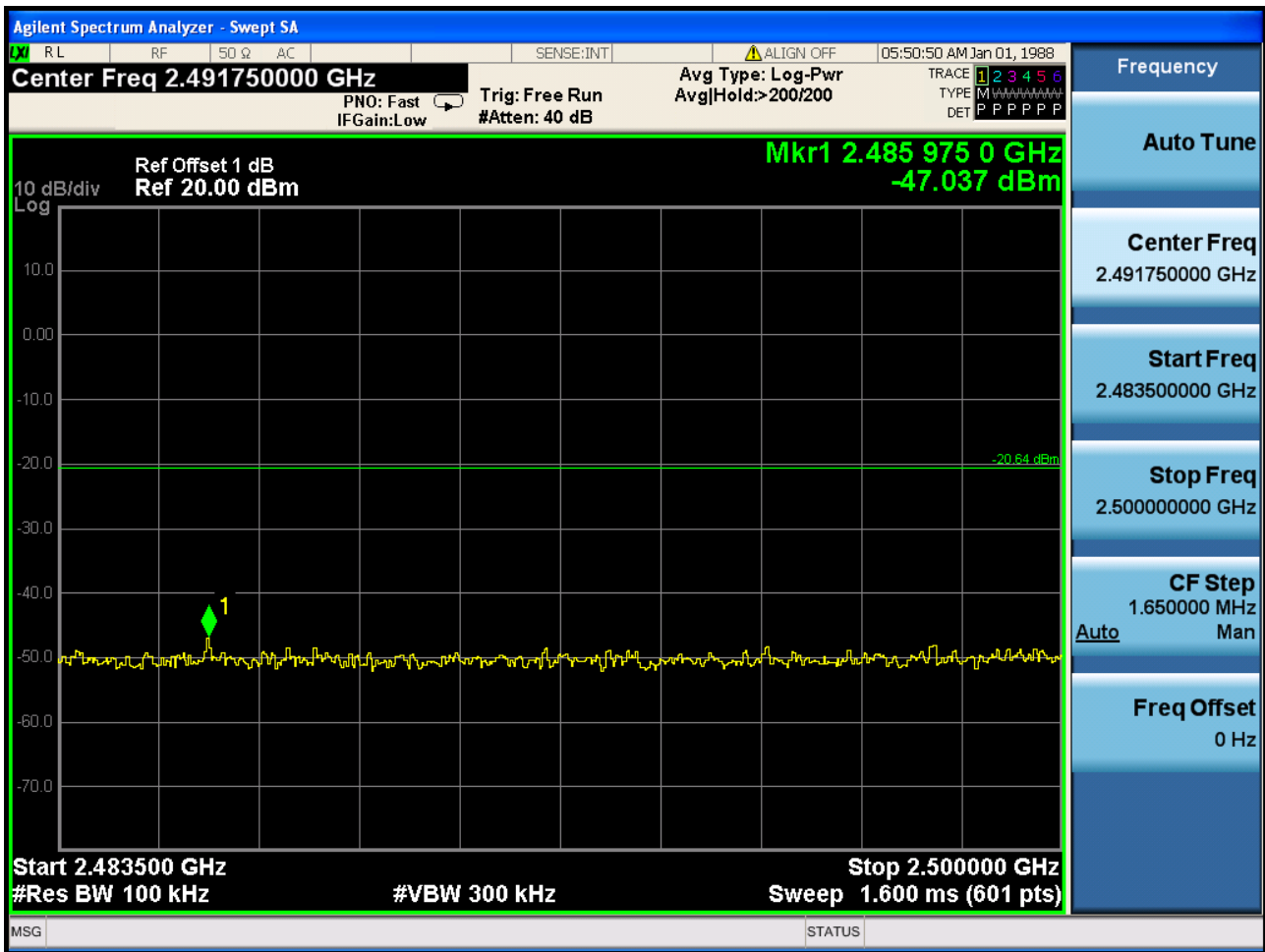
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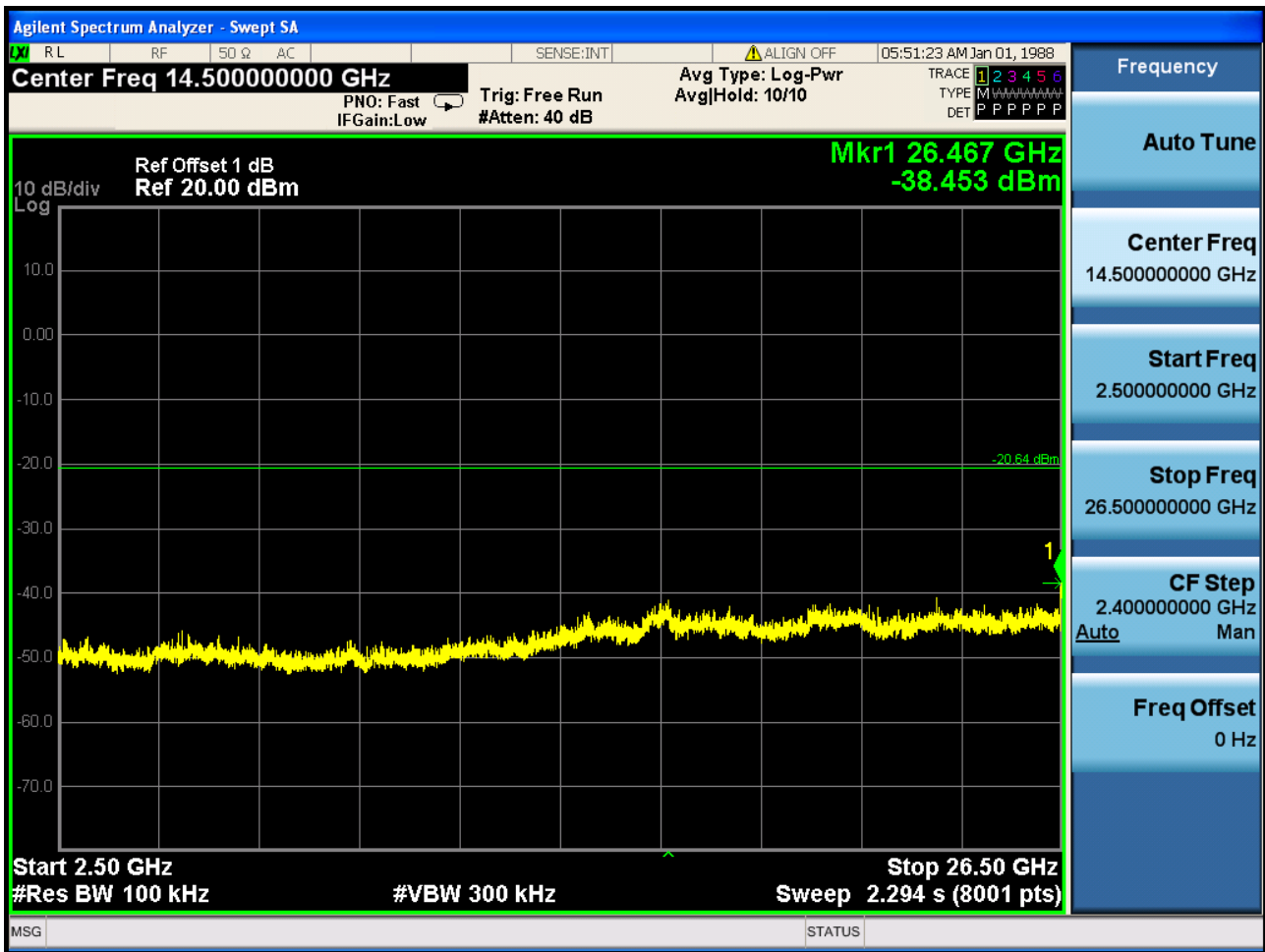
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**4.8.1.2.11 802.11 N20MIMO Middle Channel**



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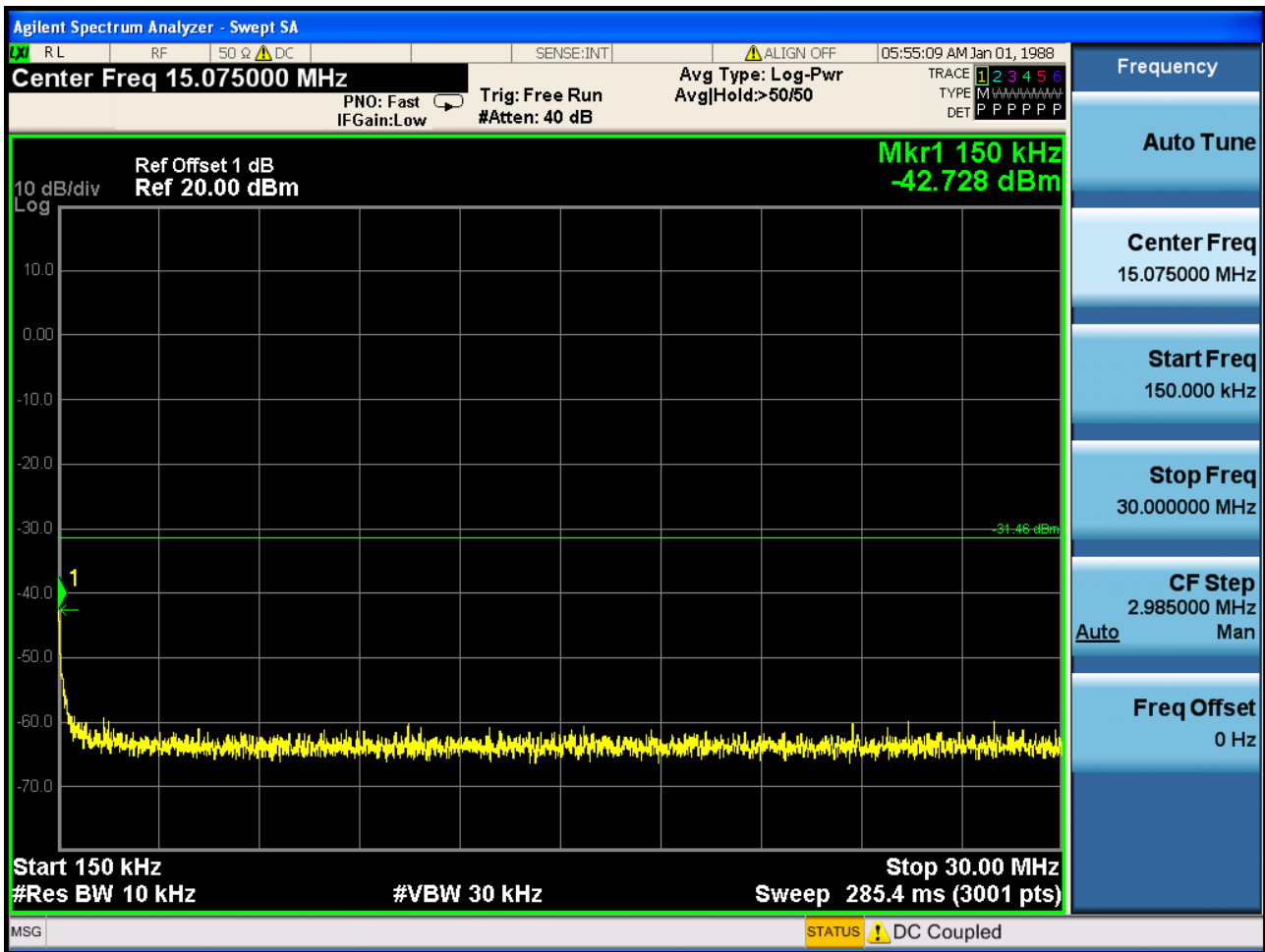
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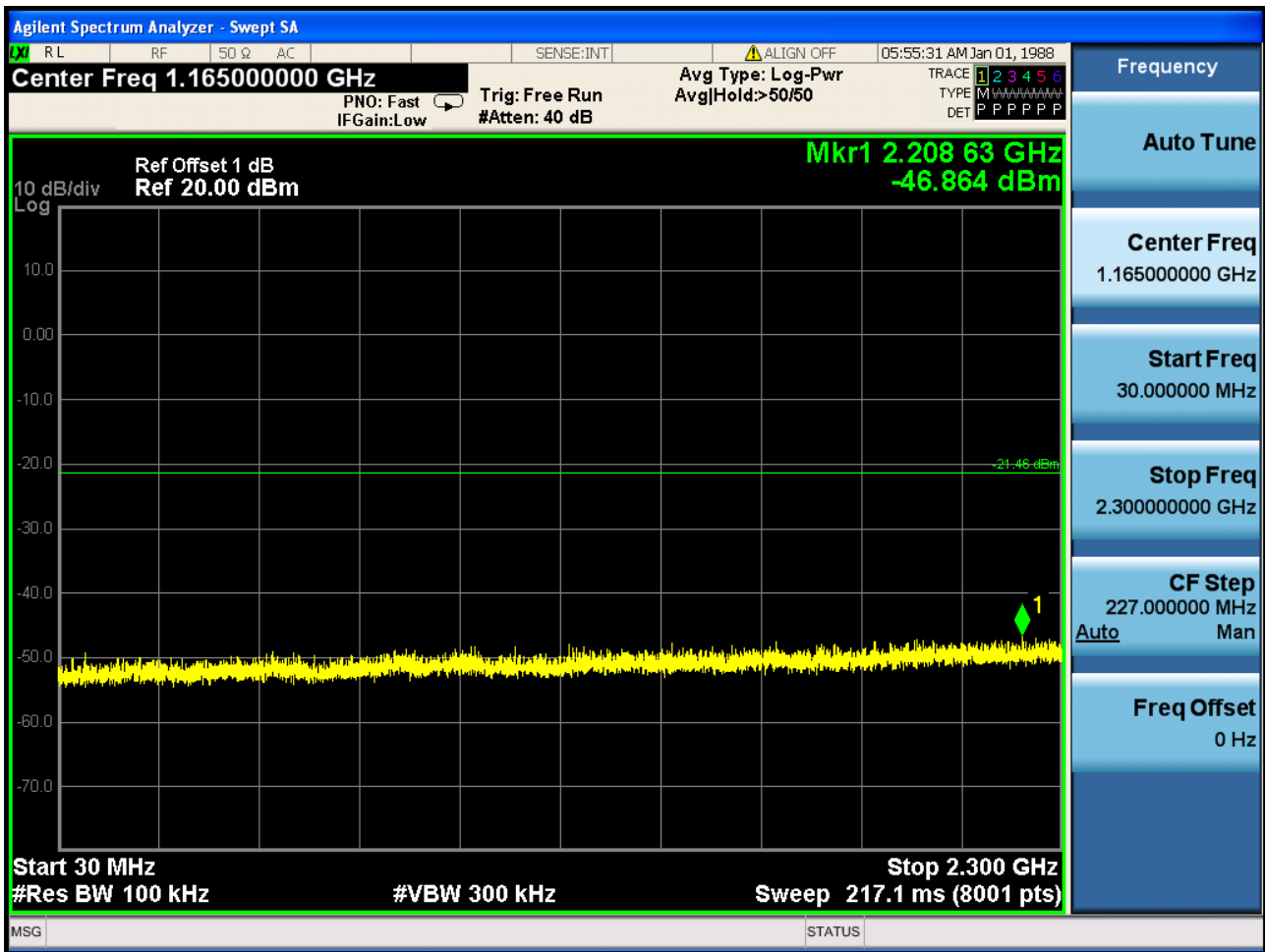
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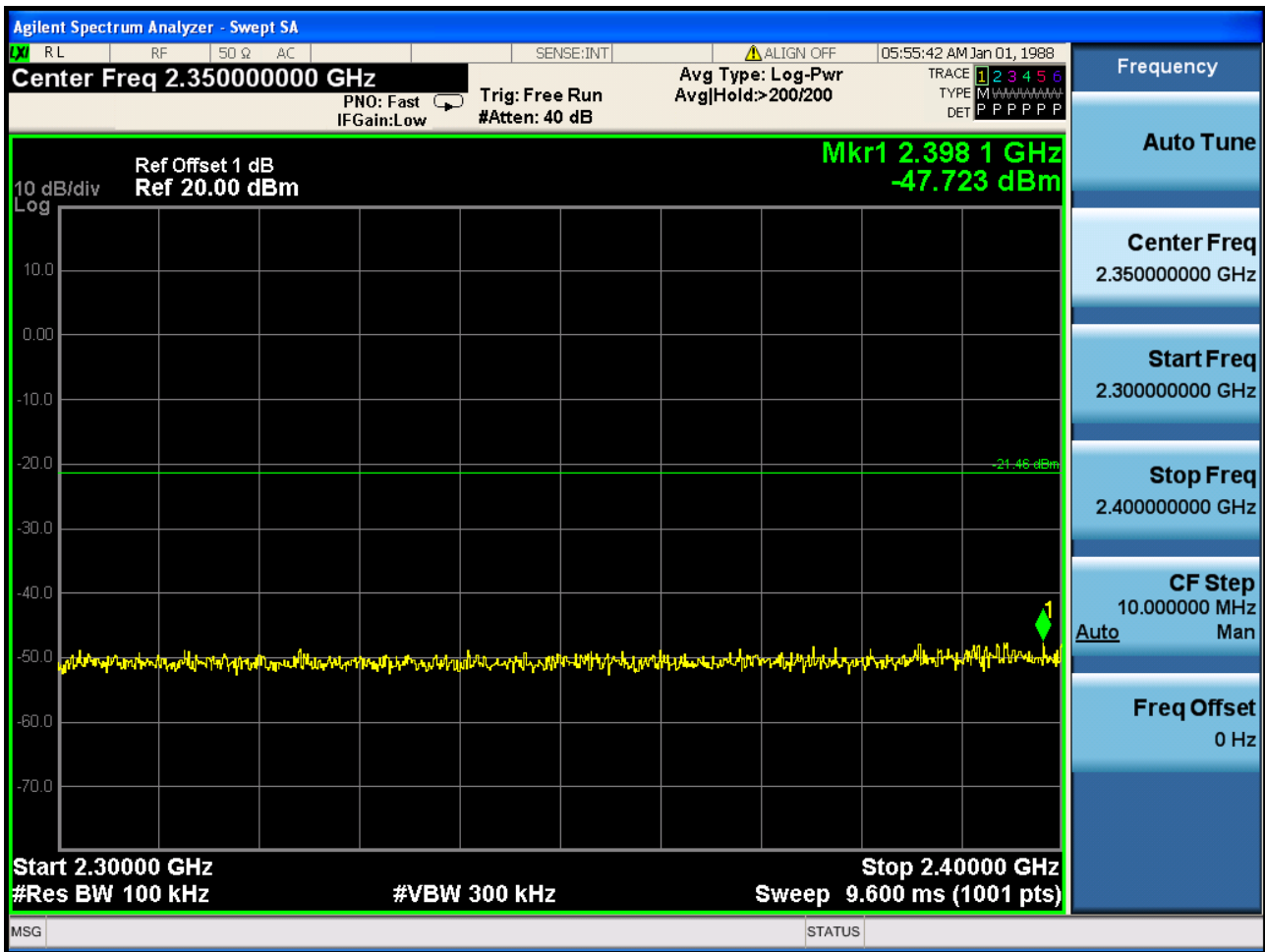
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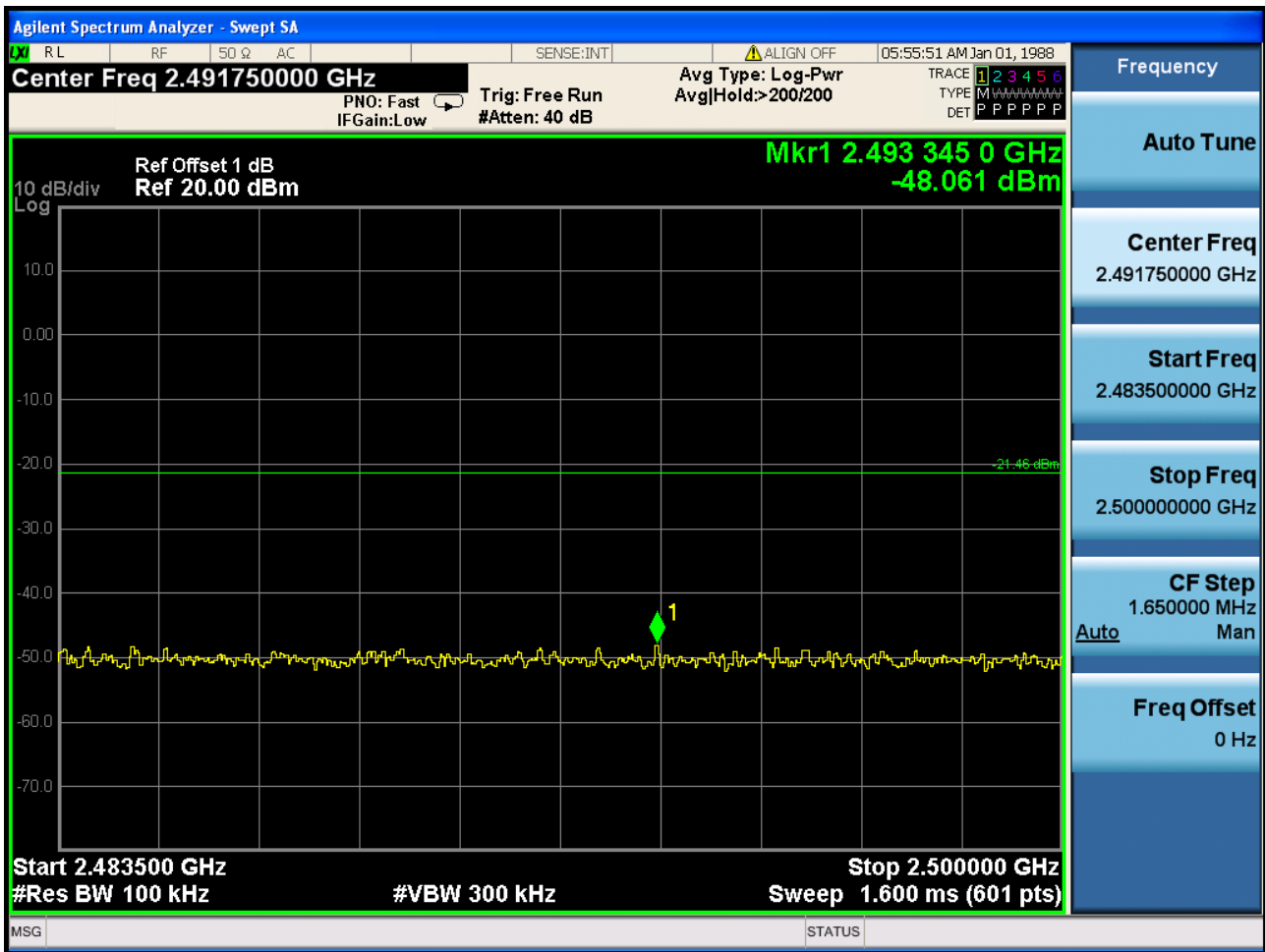
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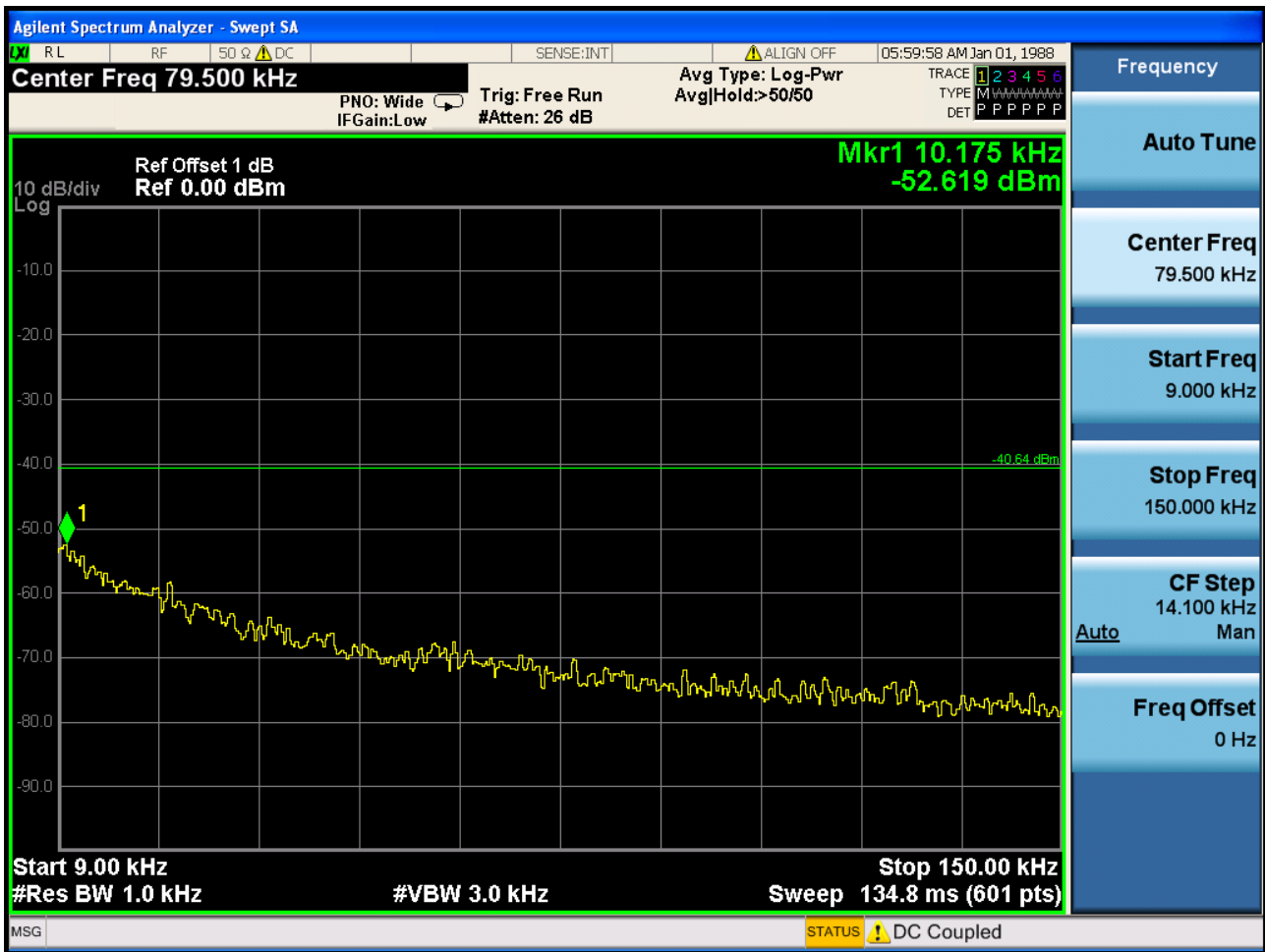
**4.8.1.2.12 802.11 N20MIMO\_Highest Channel**



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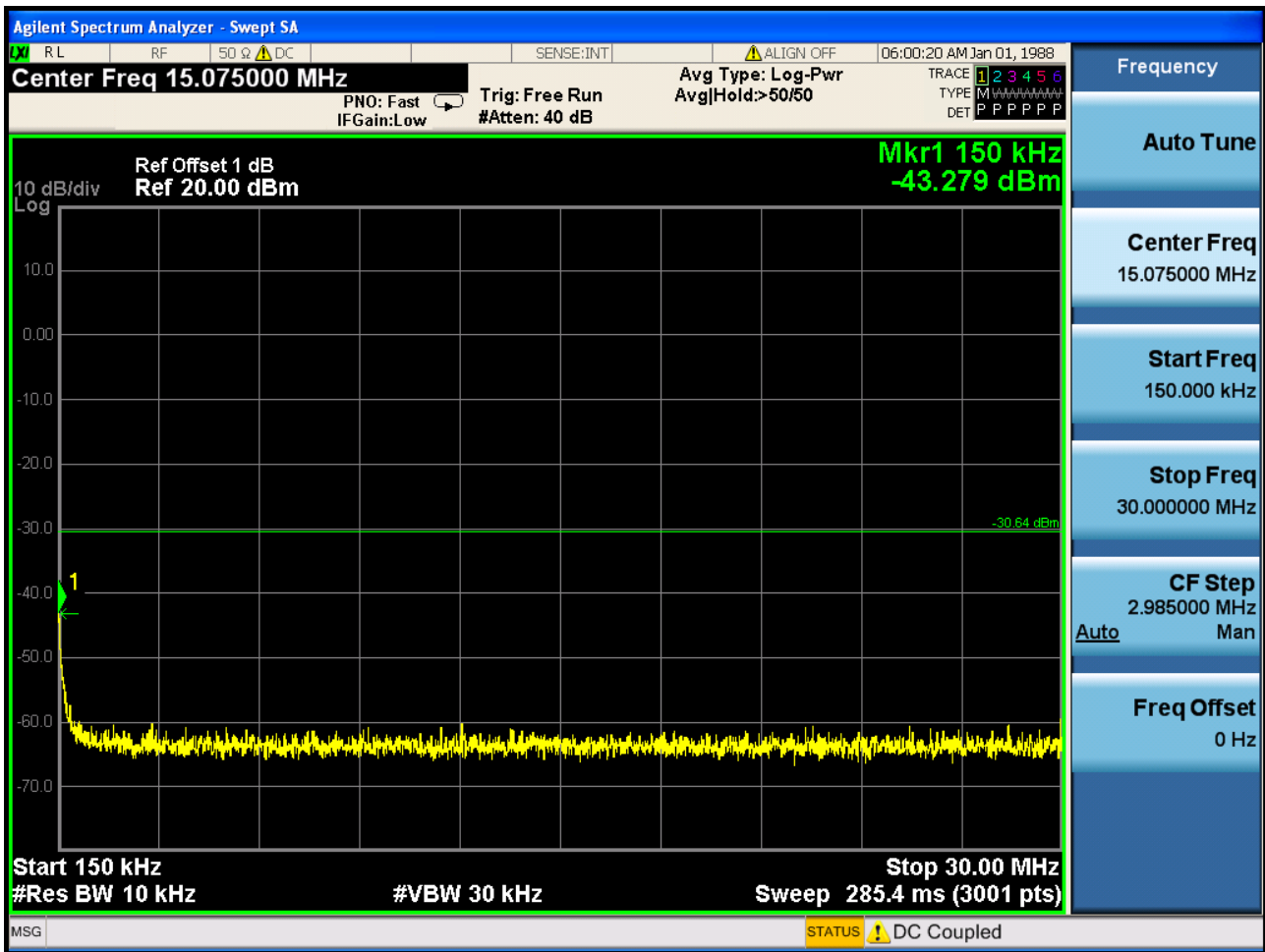
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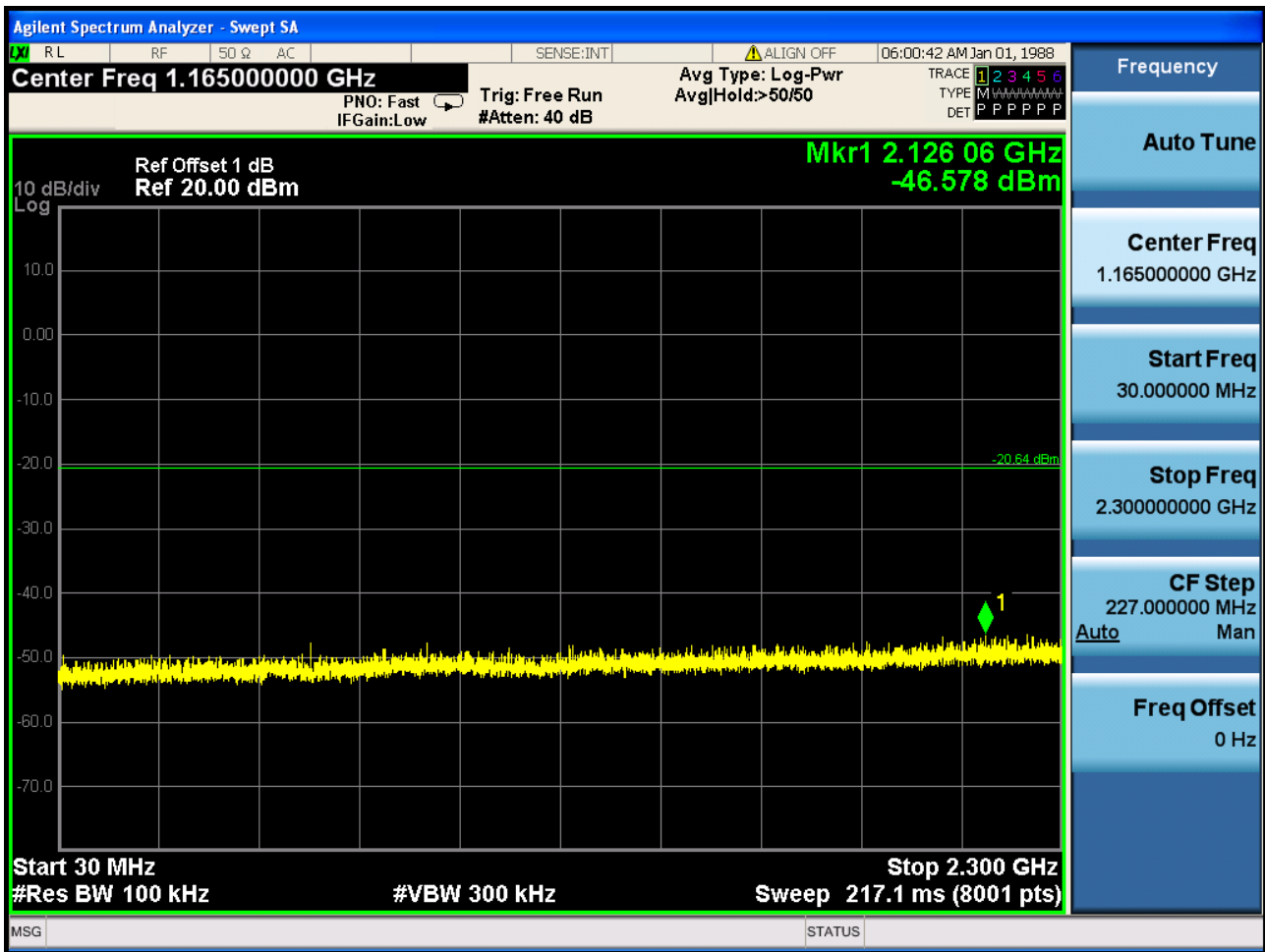
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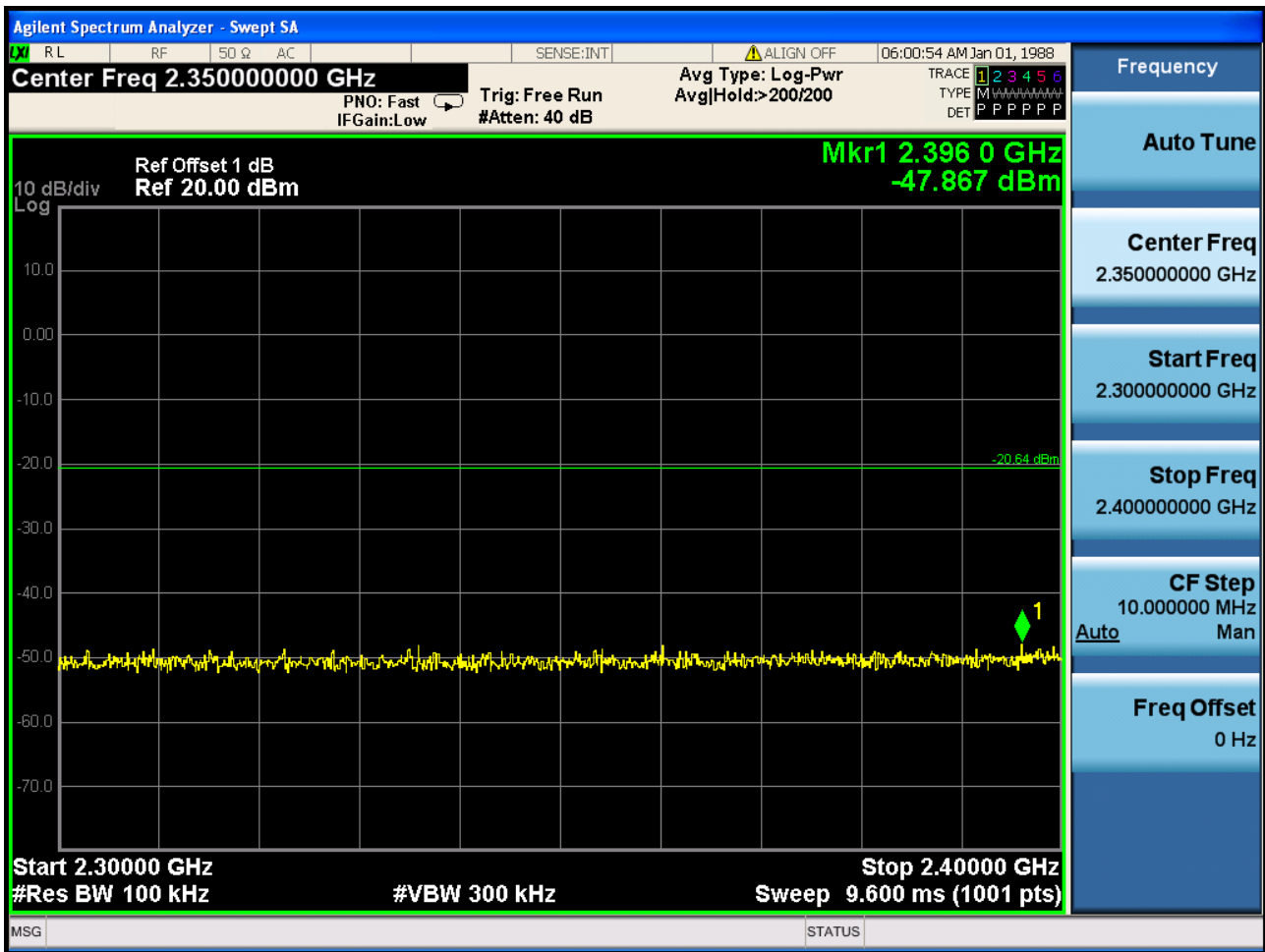
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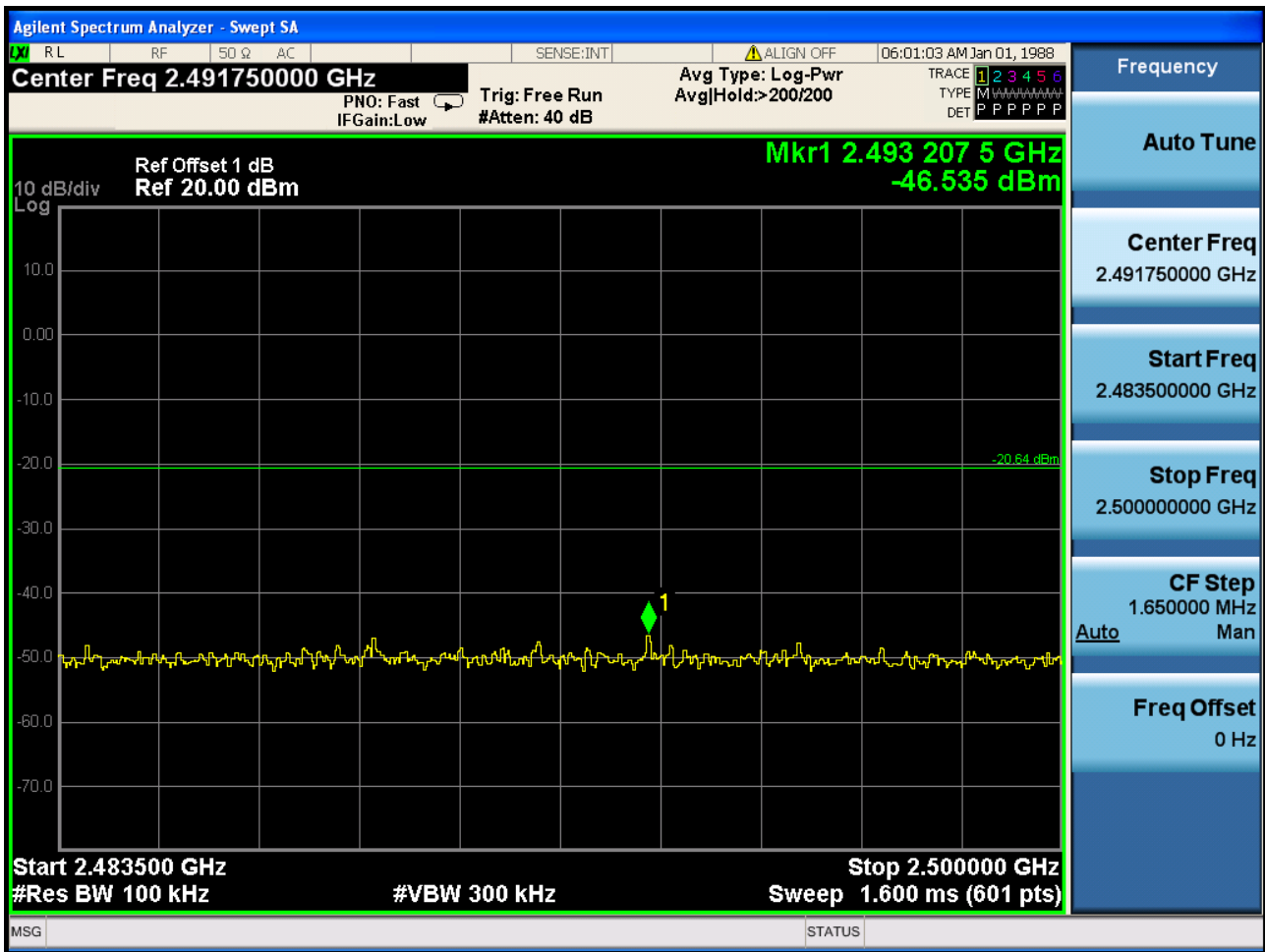
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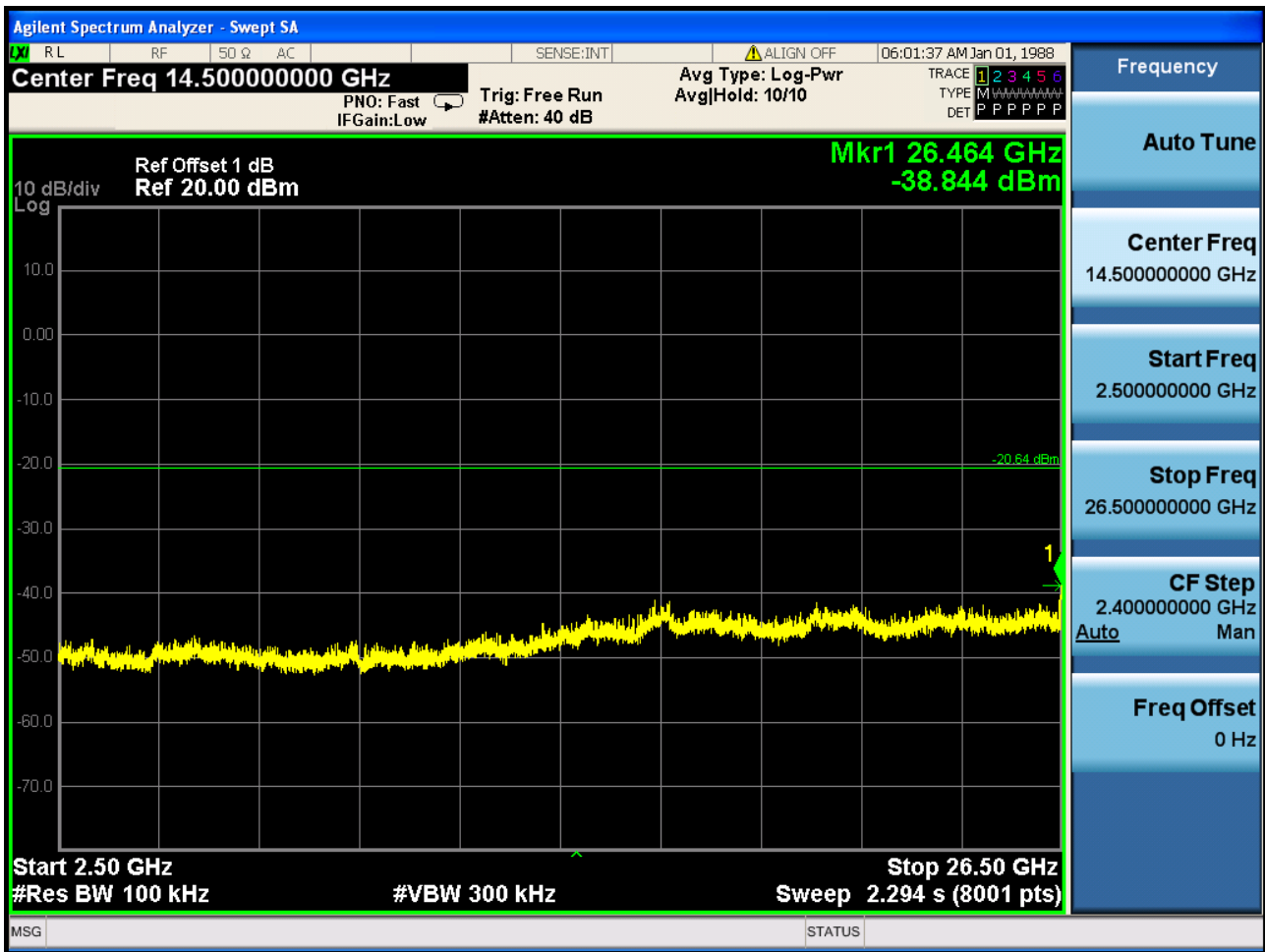


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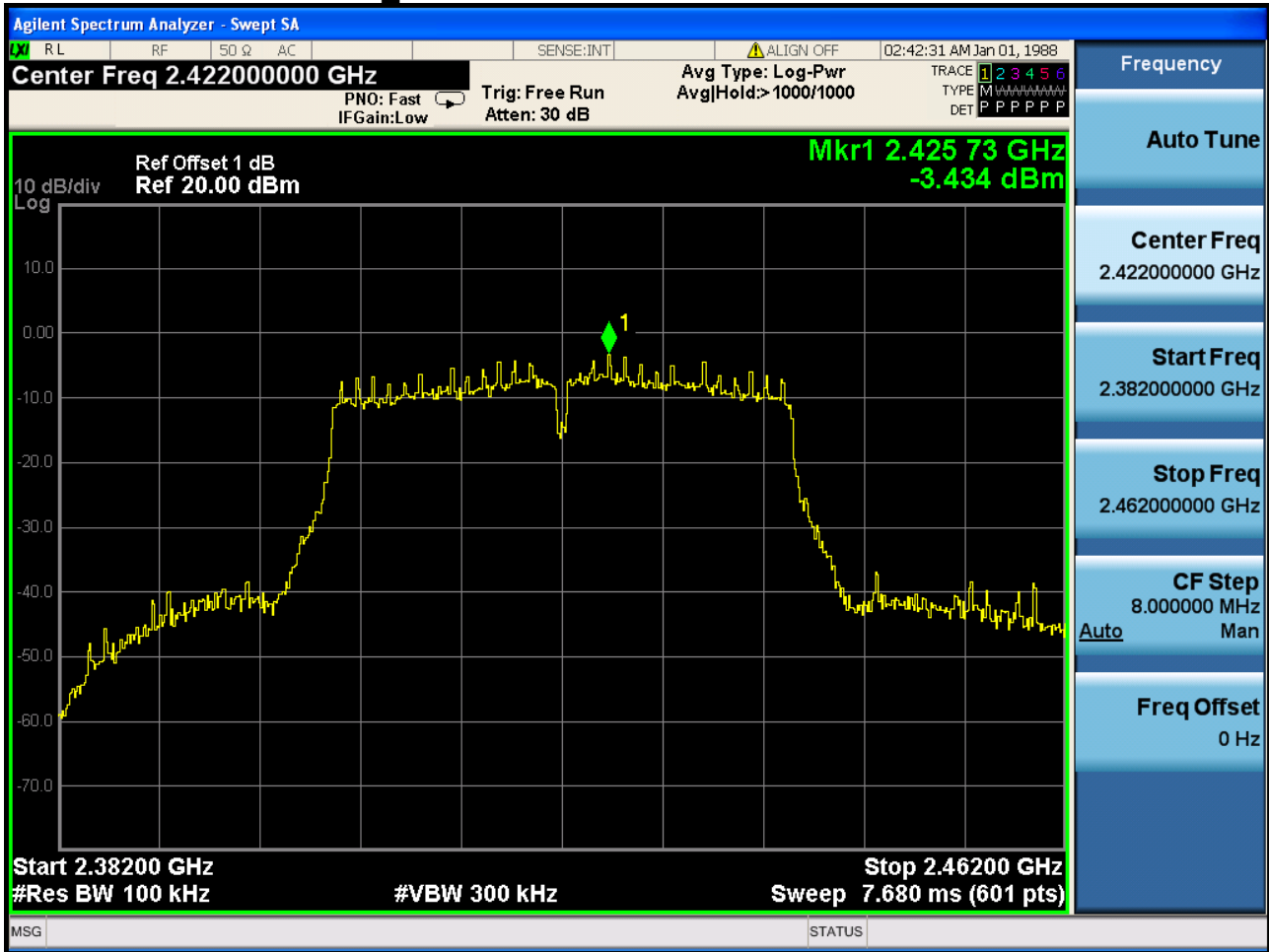




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**4.8.1.2.13 802.11N40 Lowest Channel**



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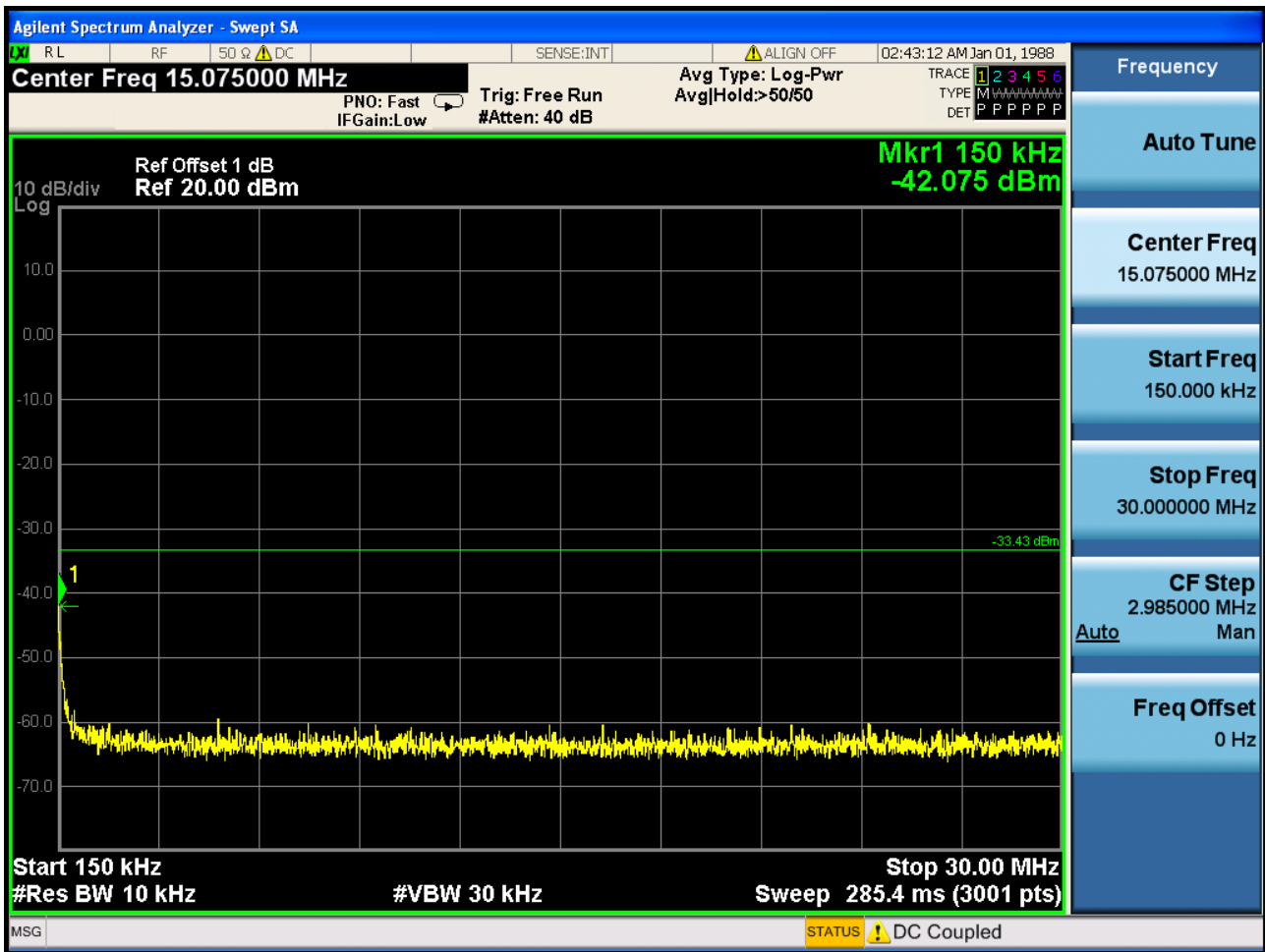
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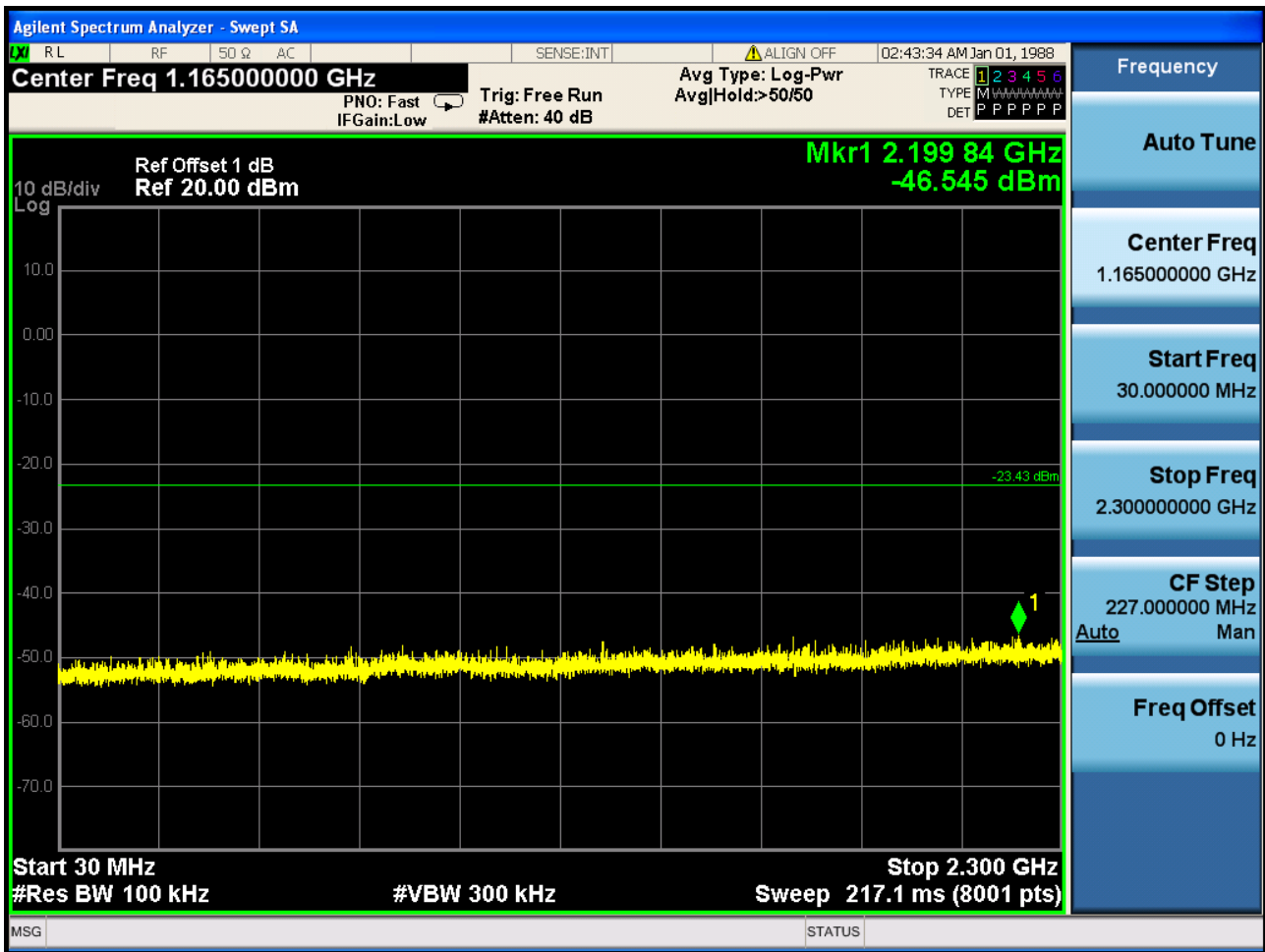
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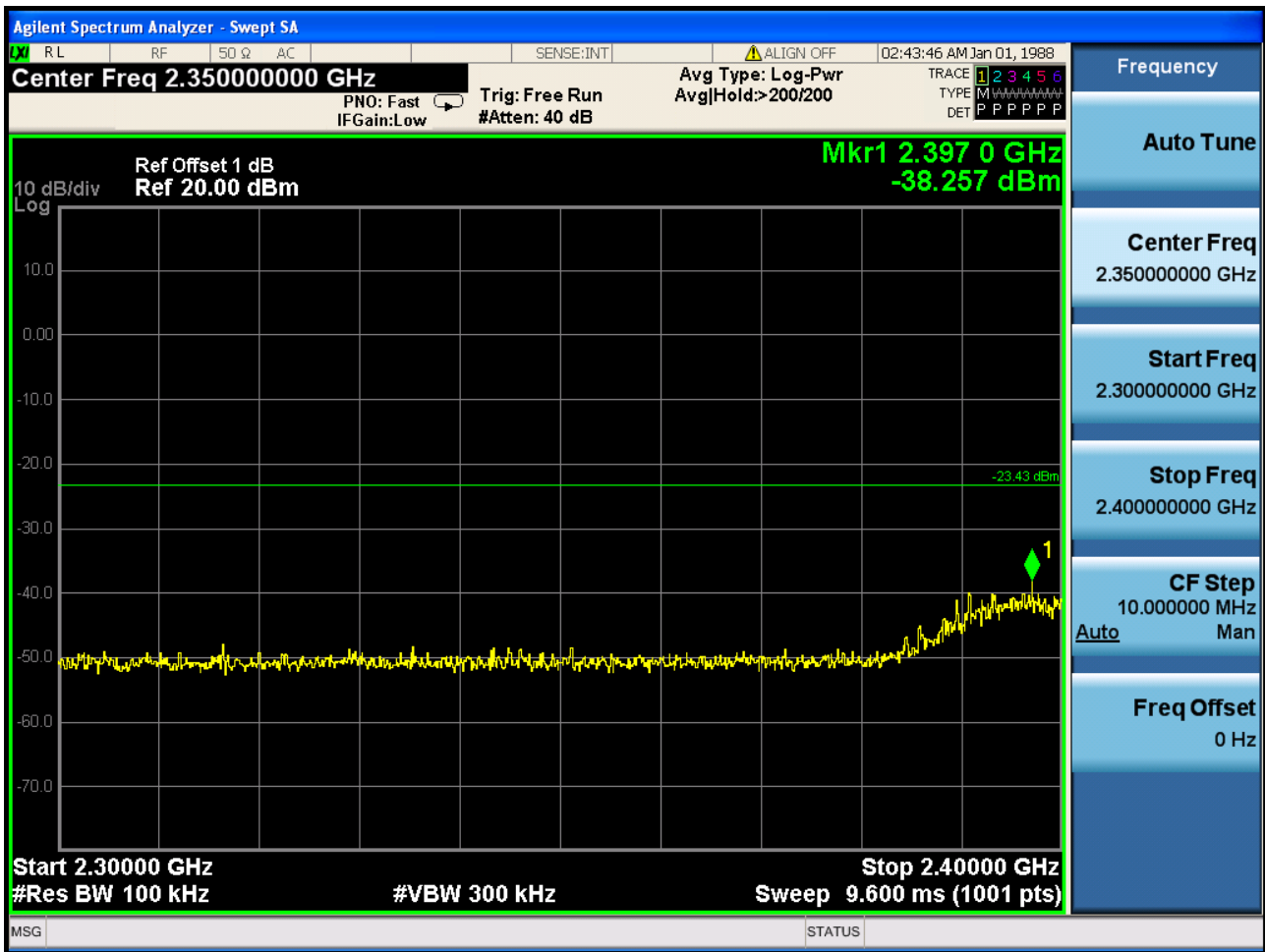
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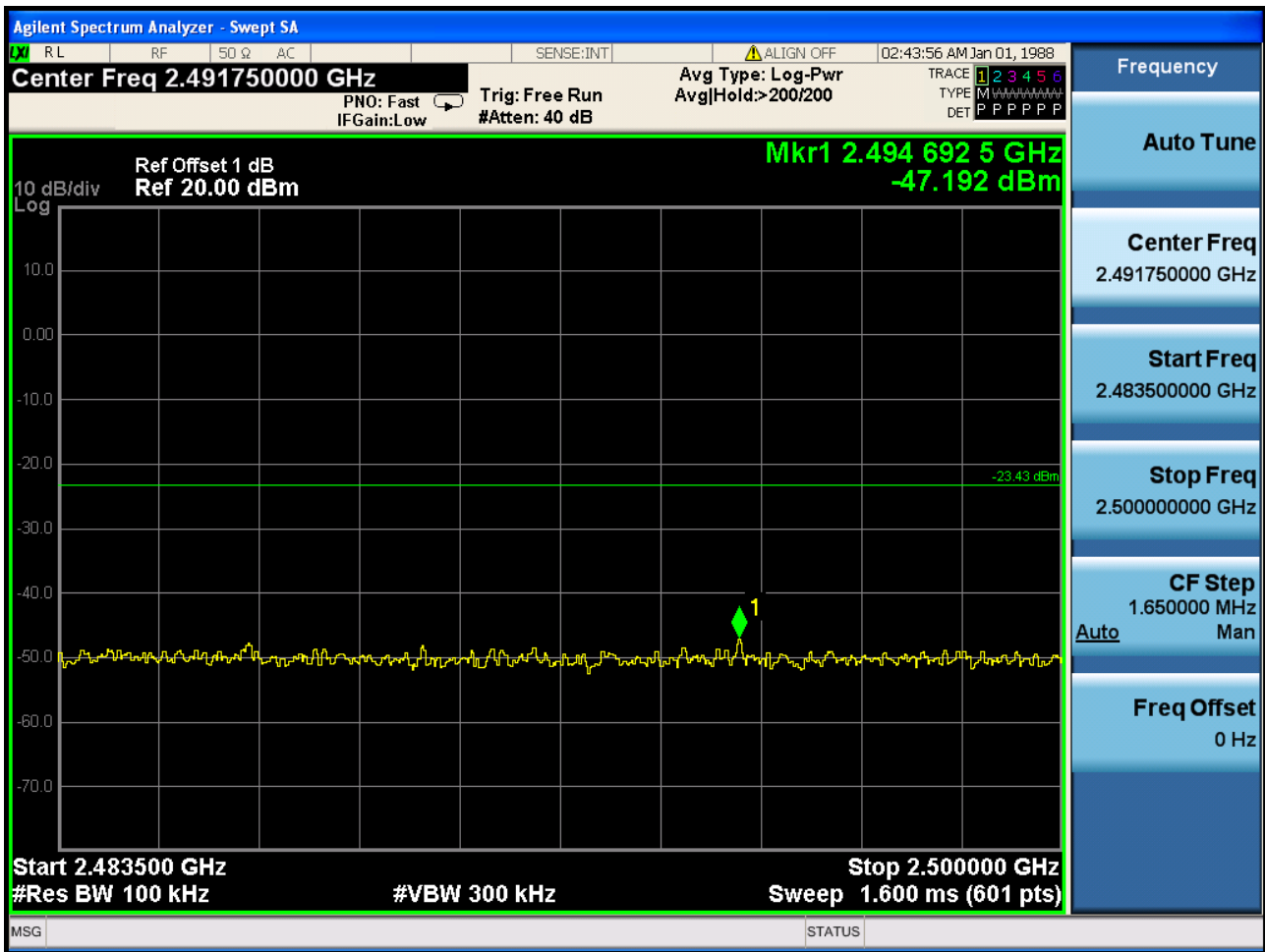
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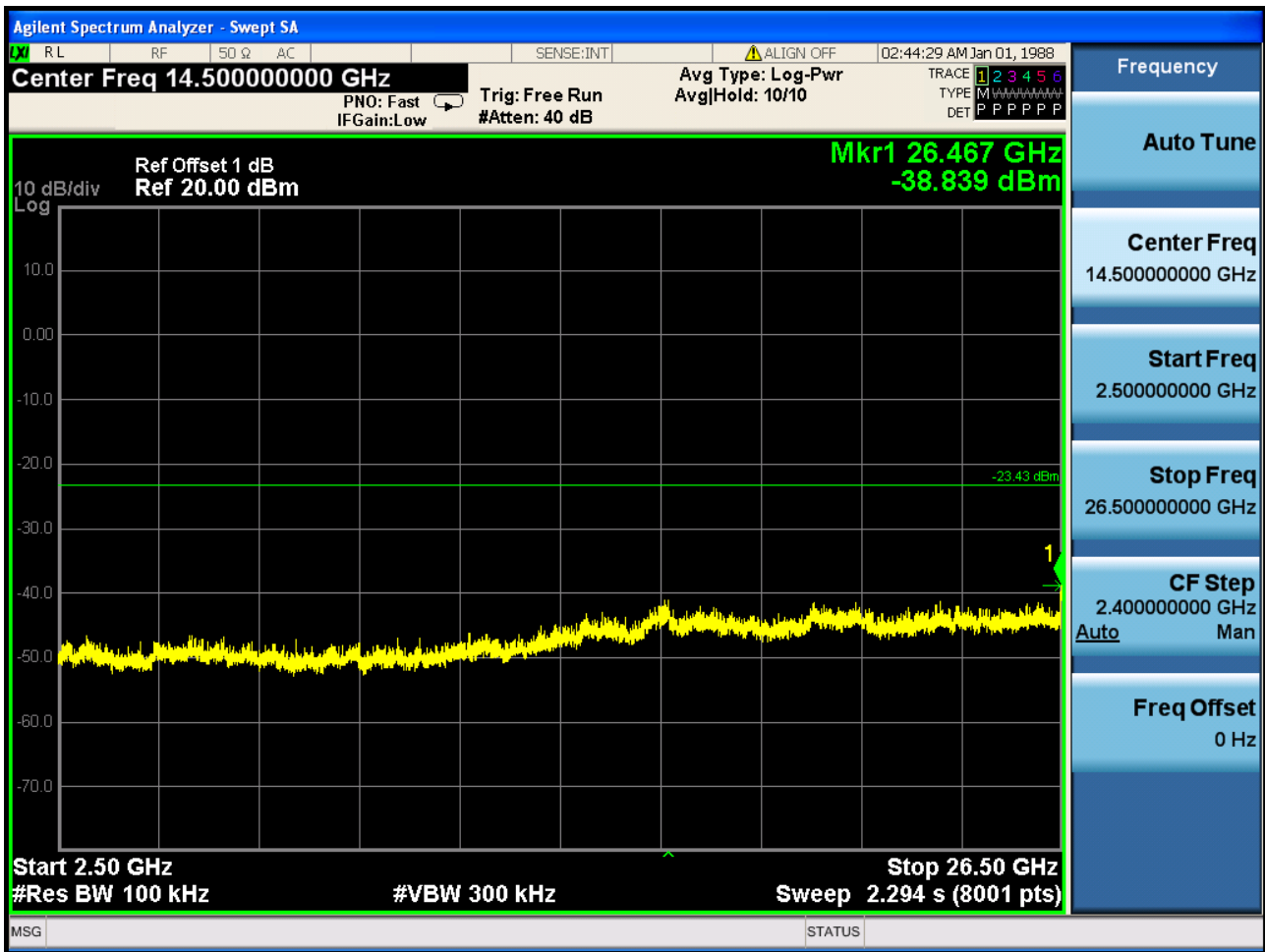
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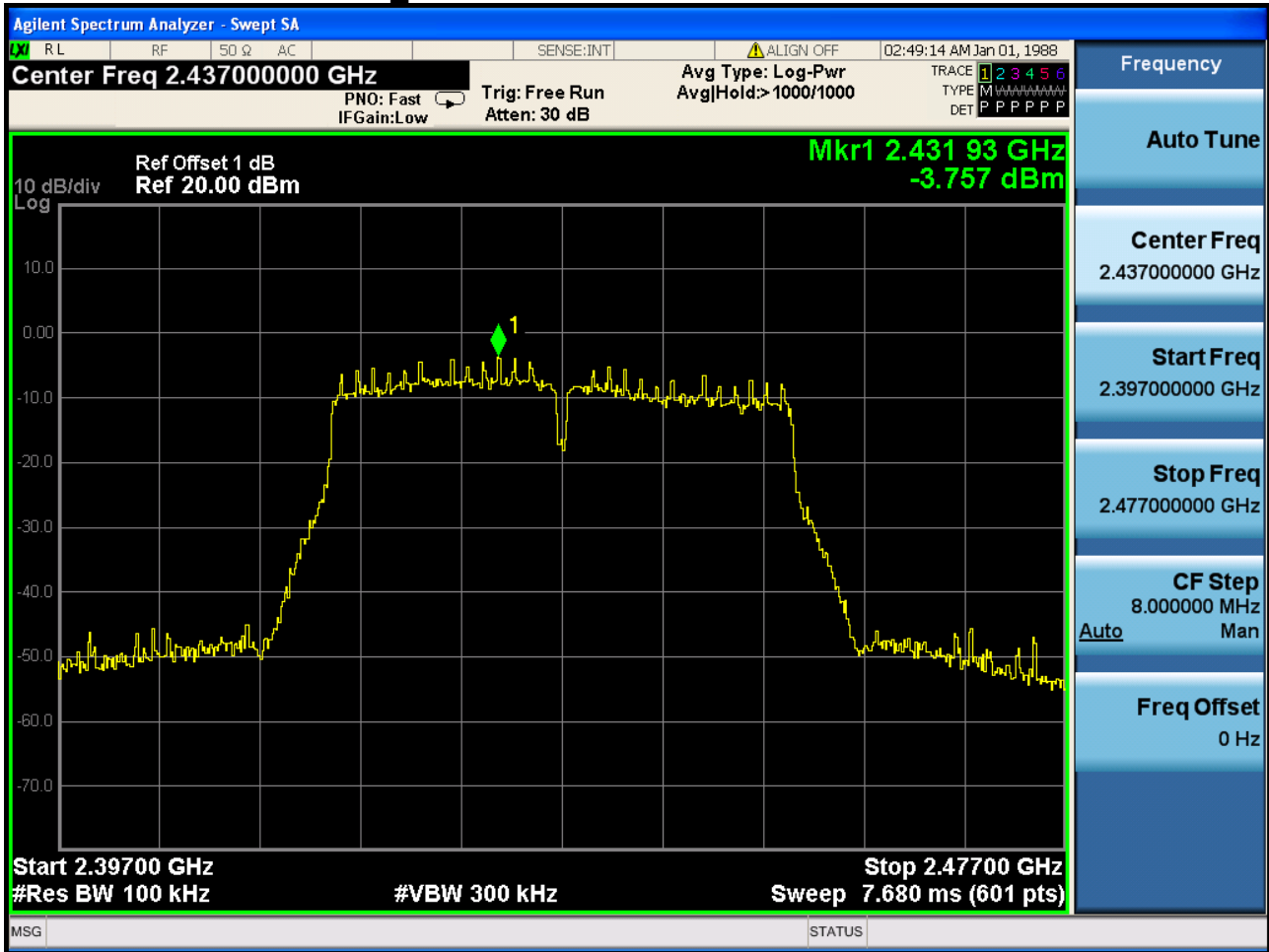


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**4.8.1.2.14 802.11 N40 Middle Channel**



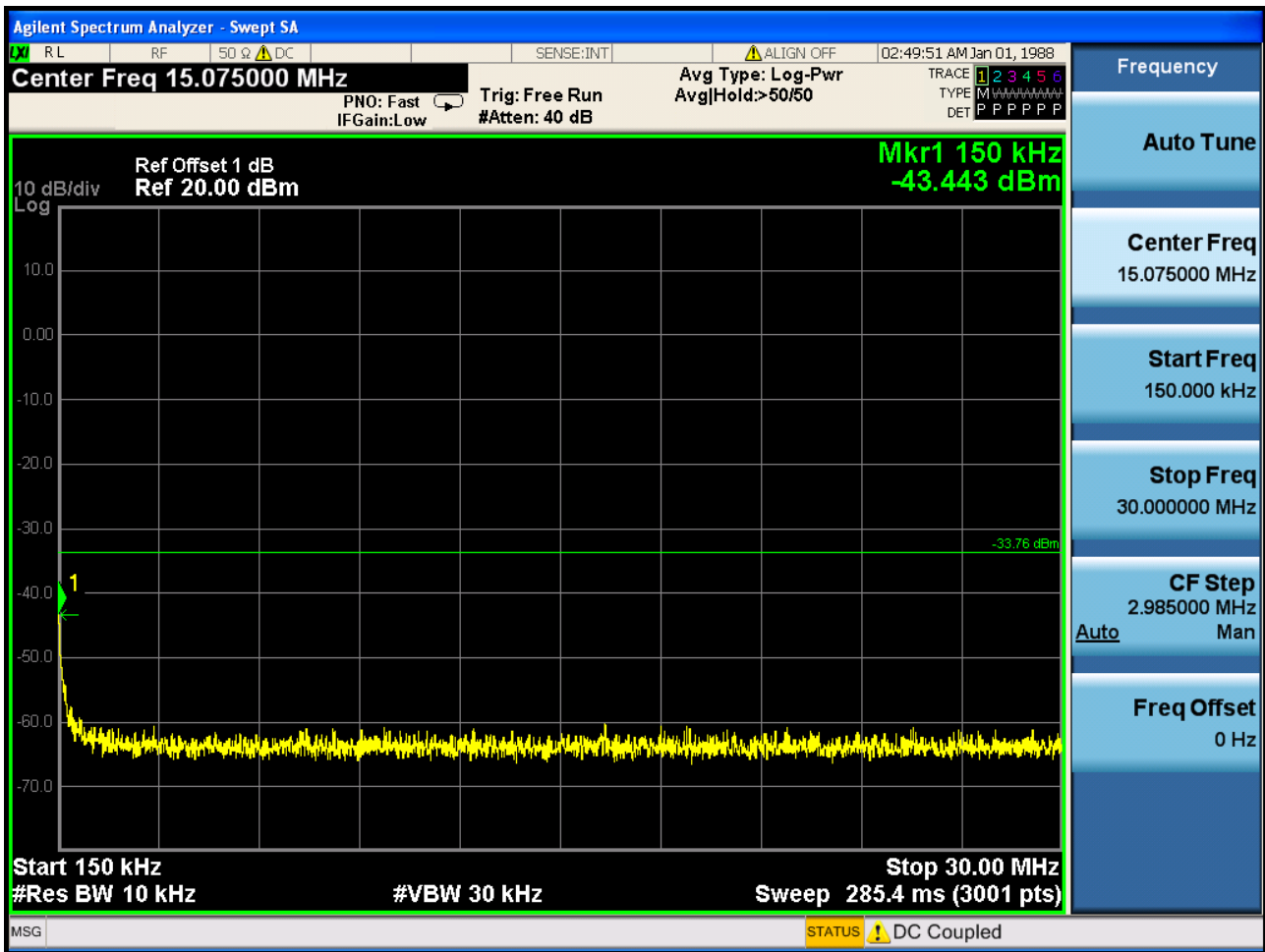
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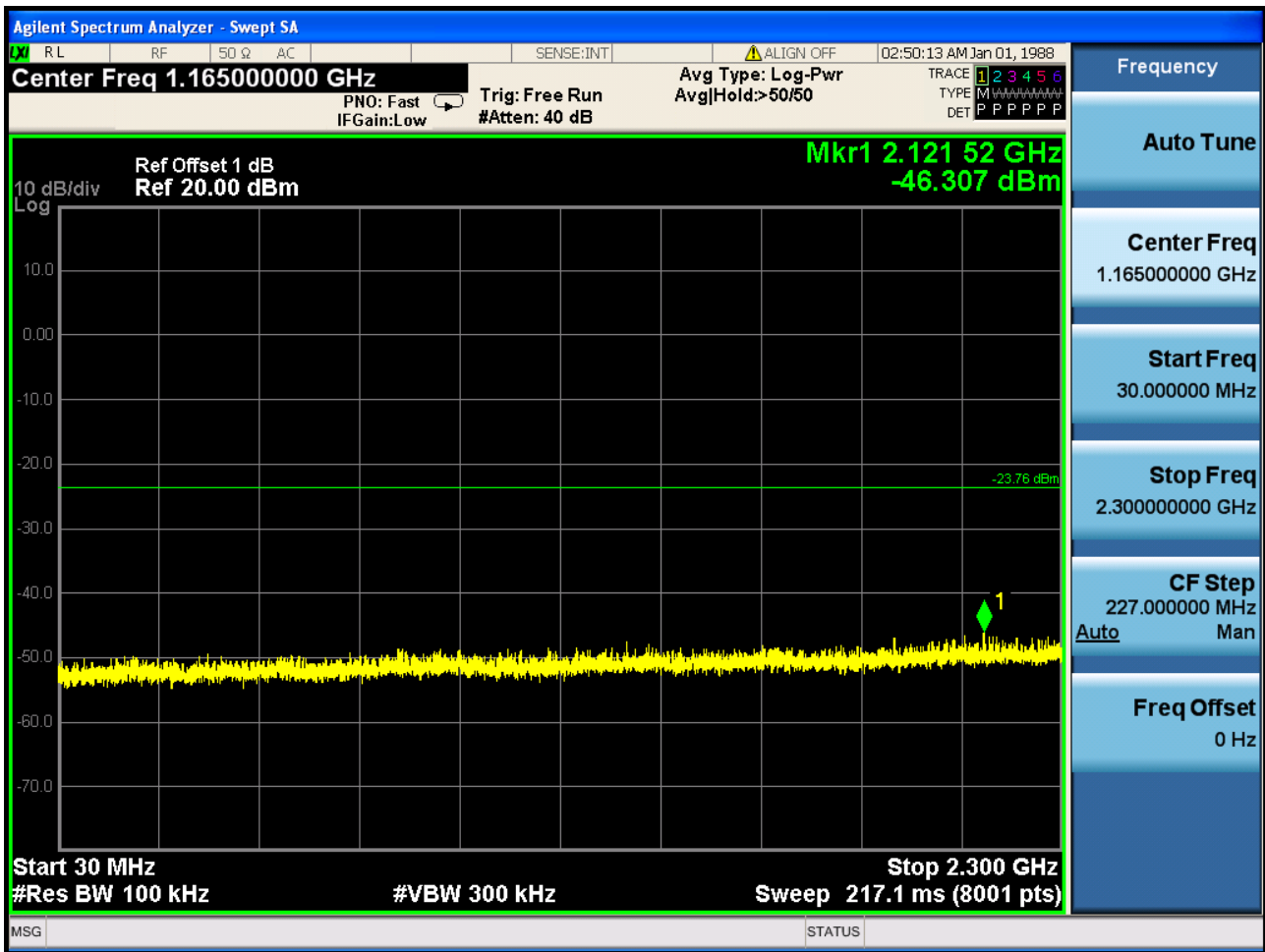
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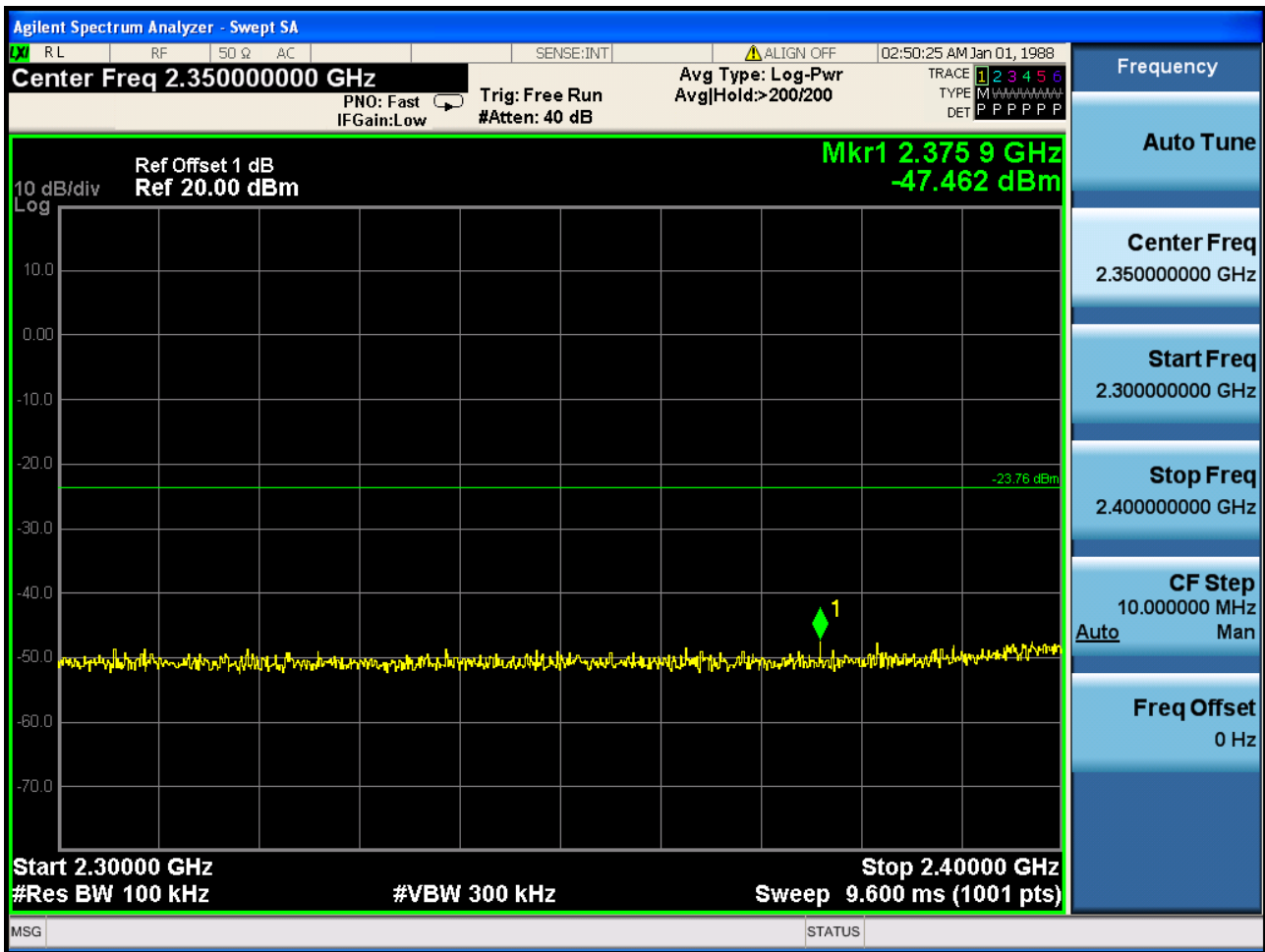
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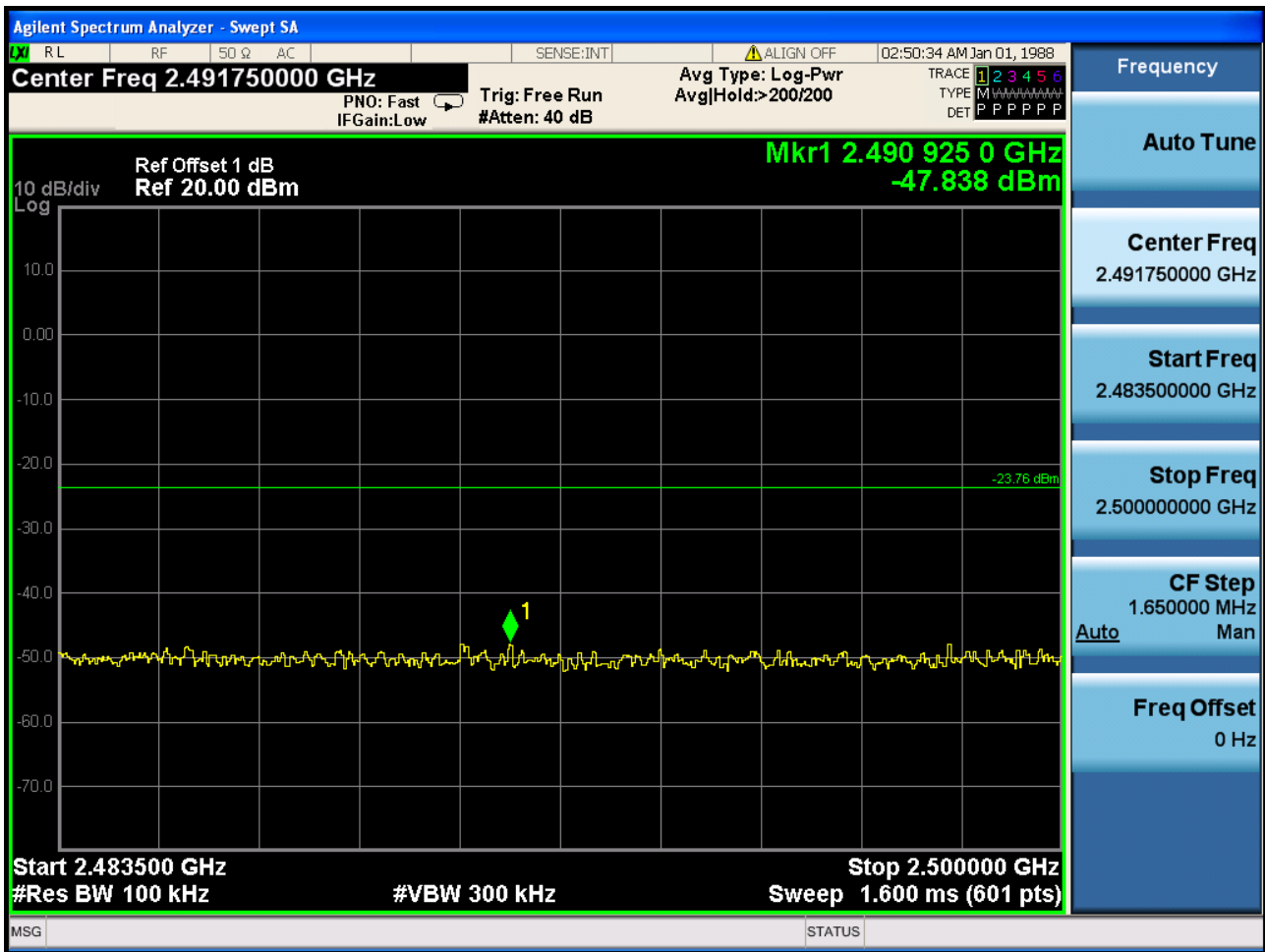
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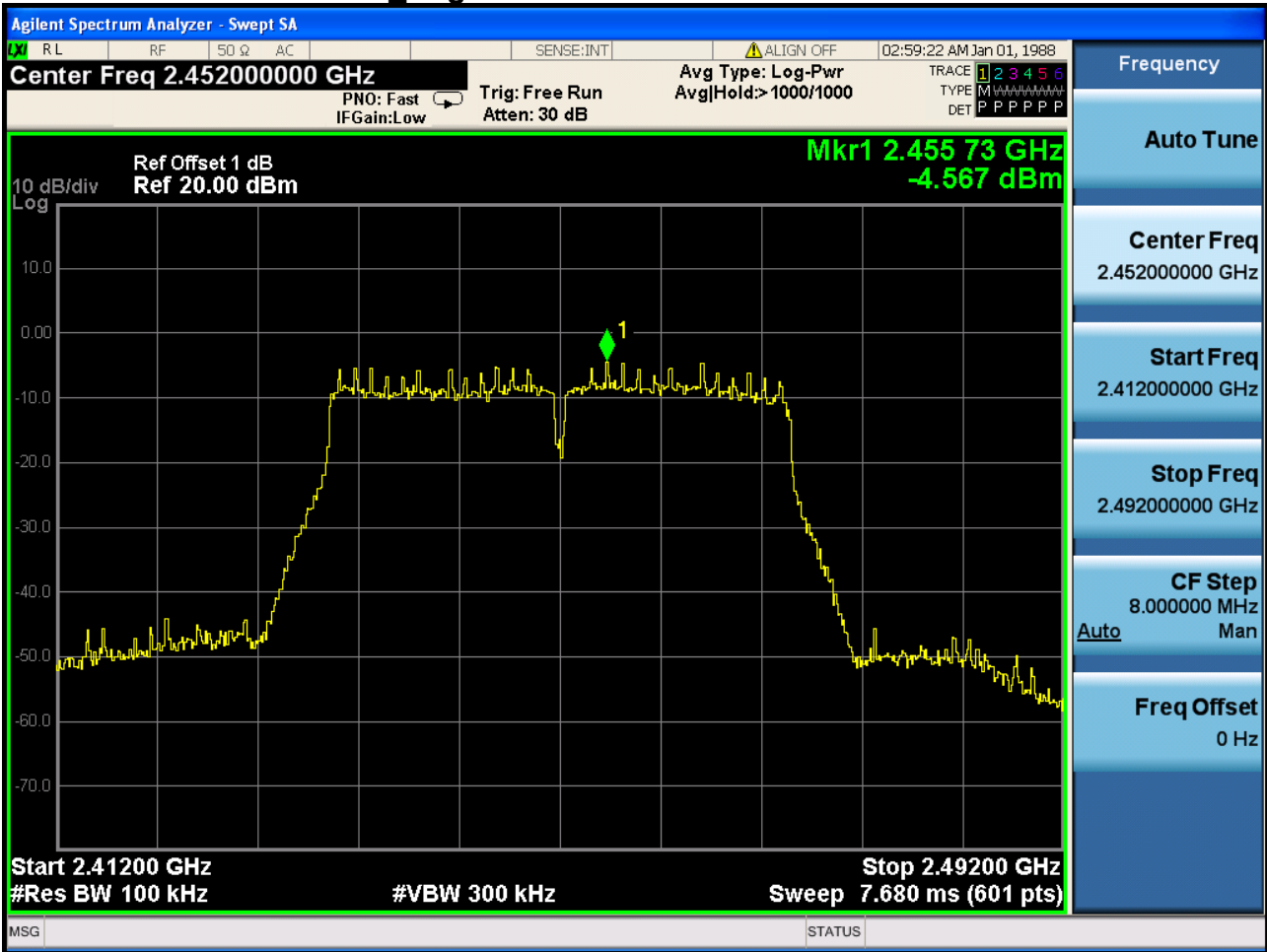


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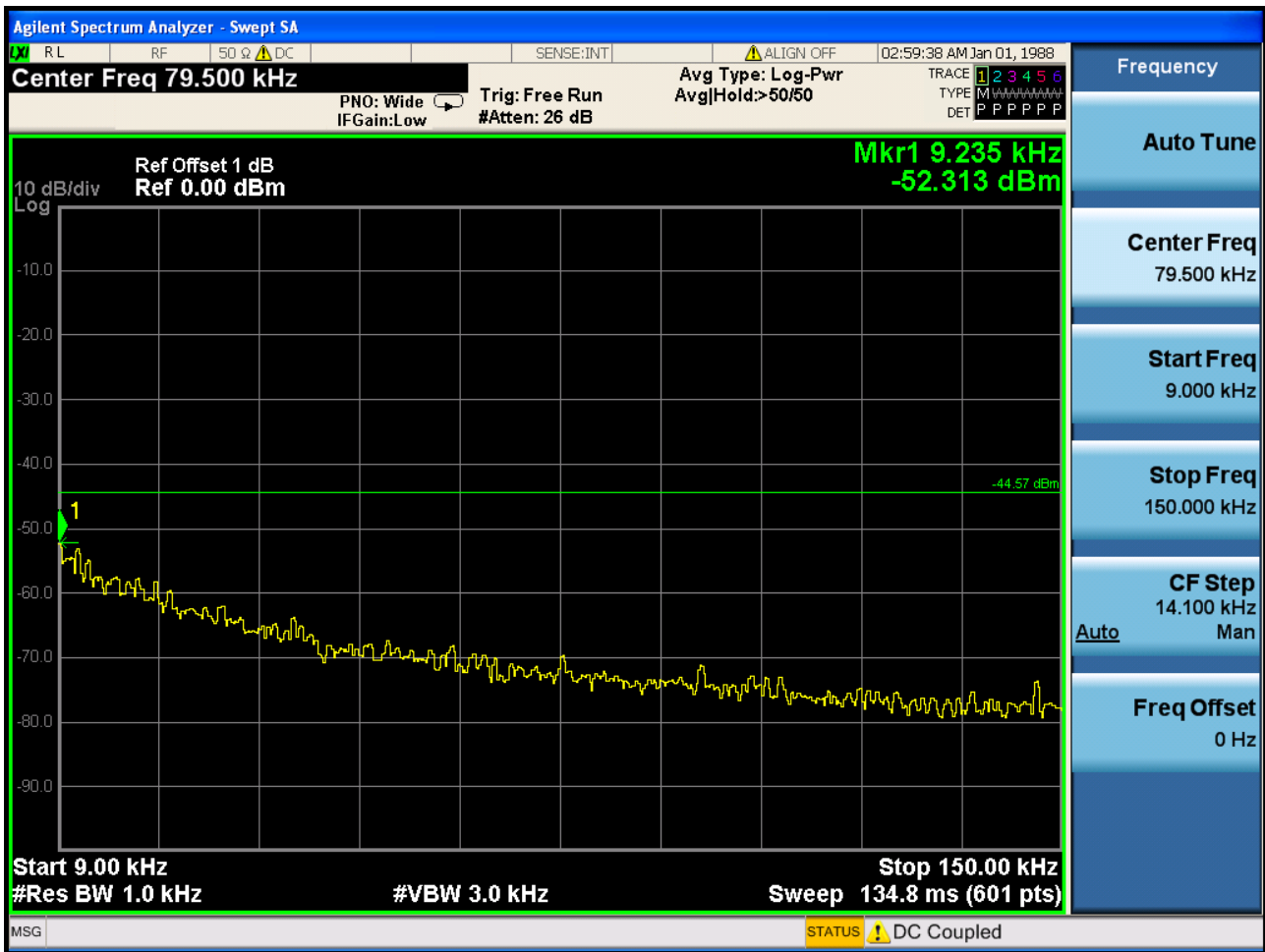
4.8.1.2.15 802.11 N40\_Highest Channel



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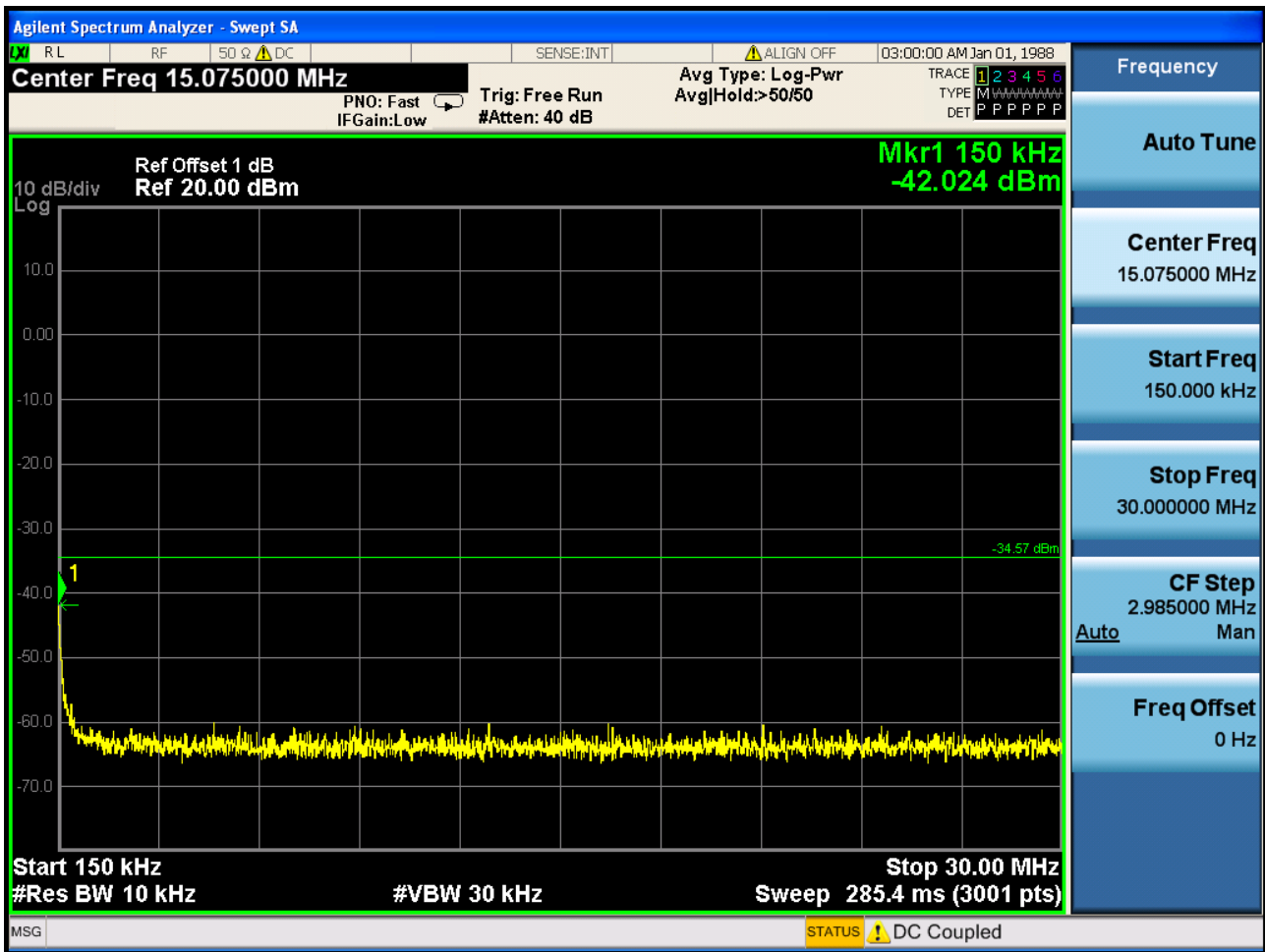
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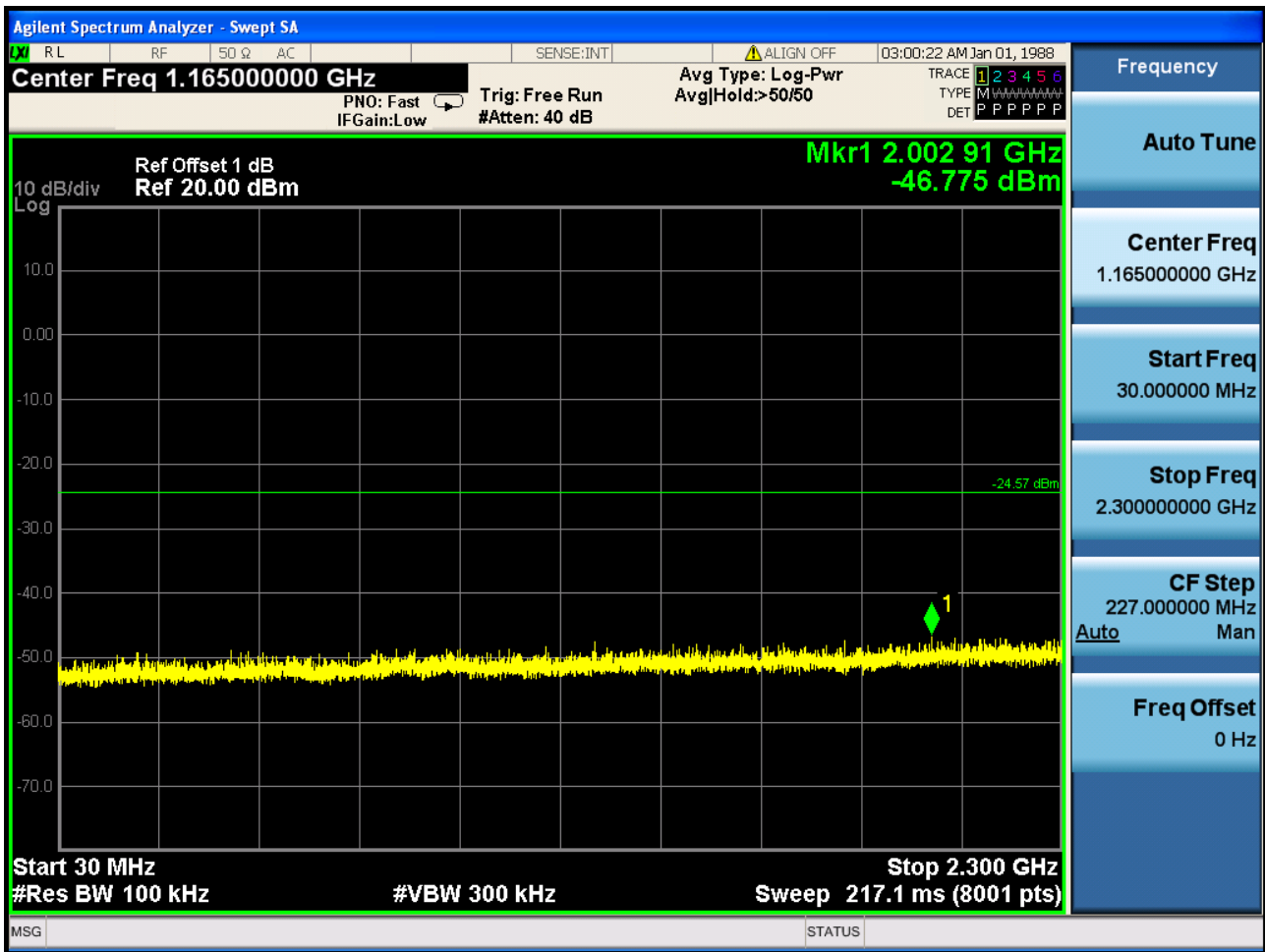
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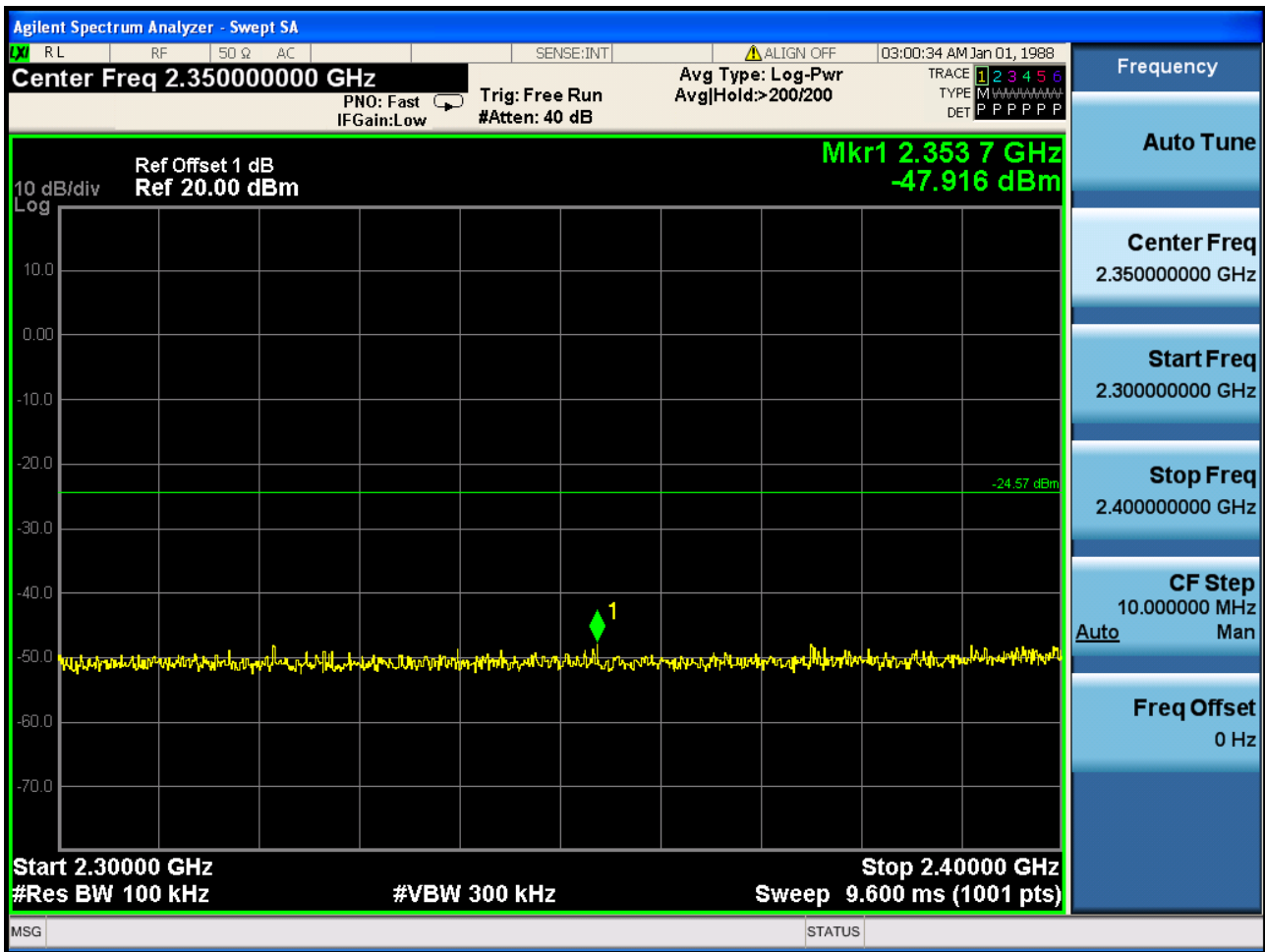
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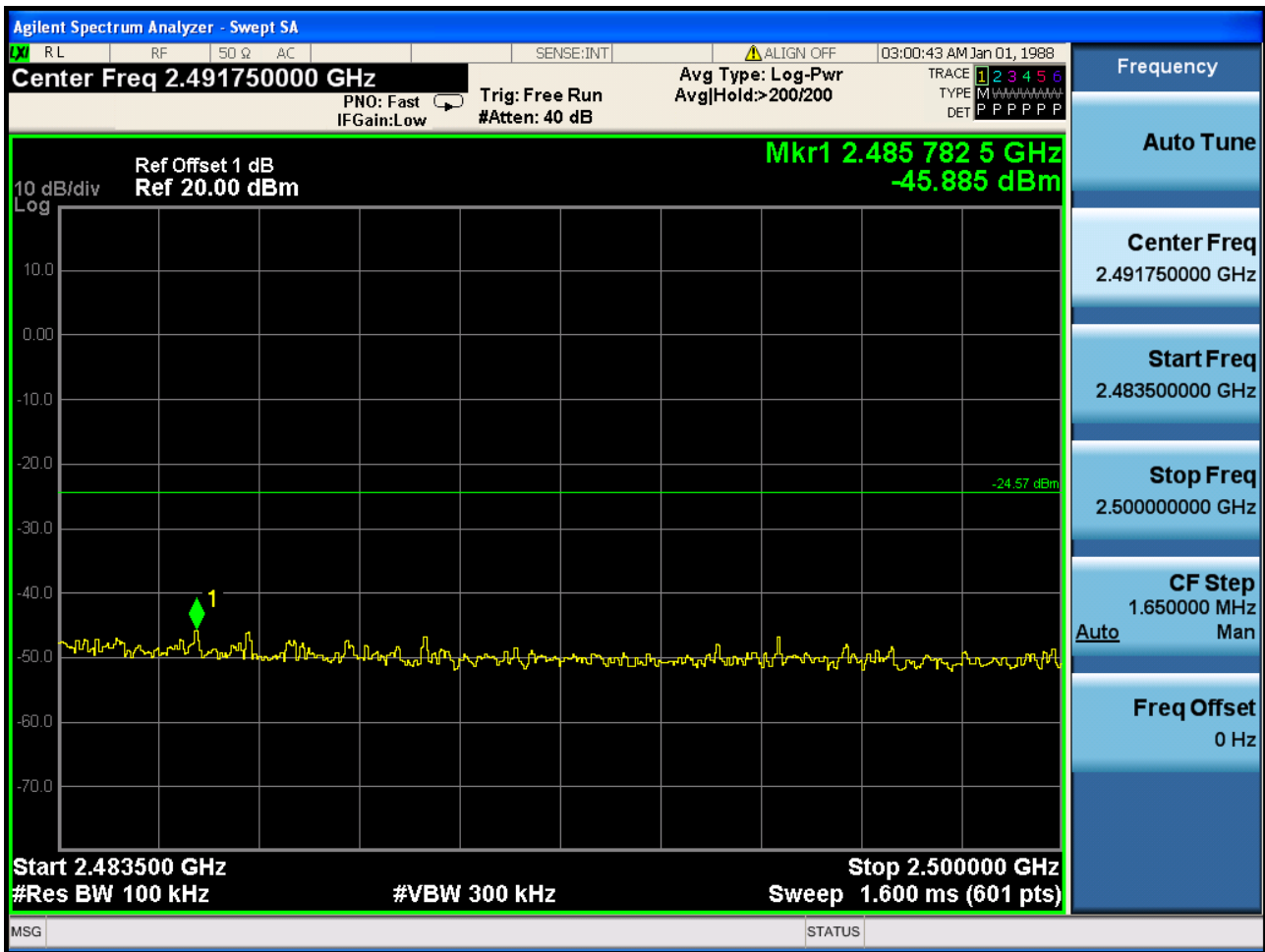
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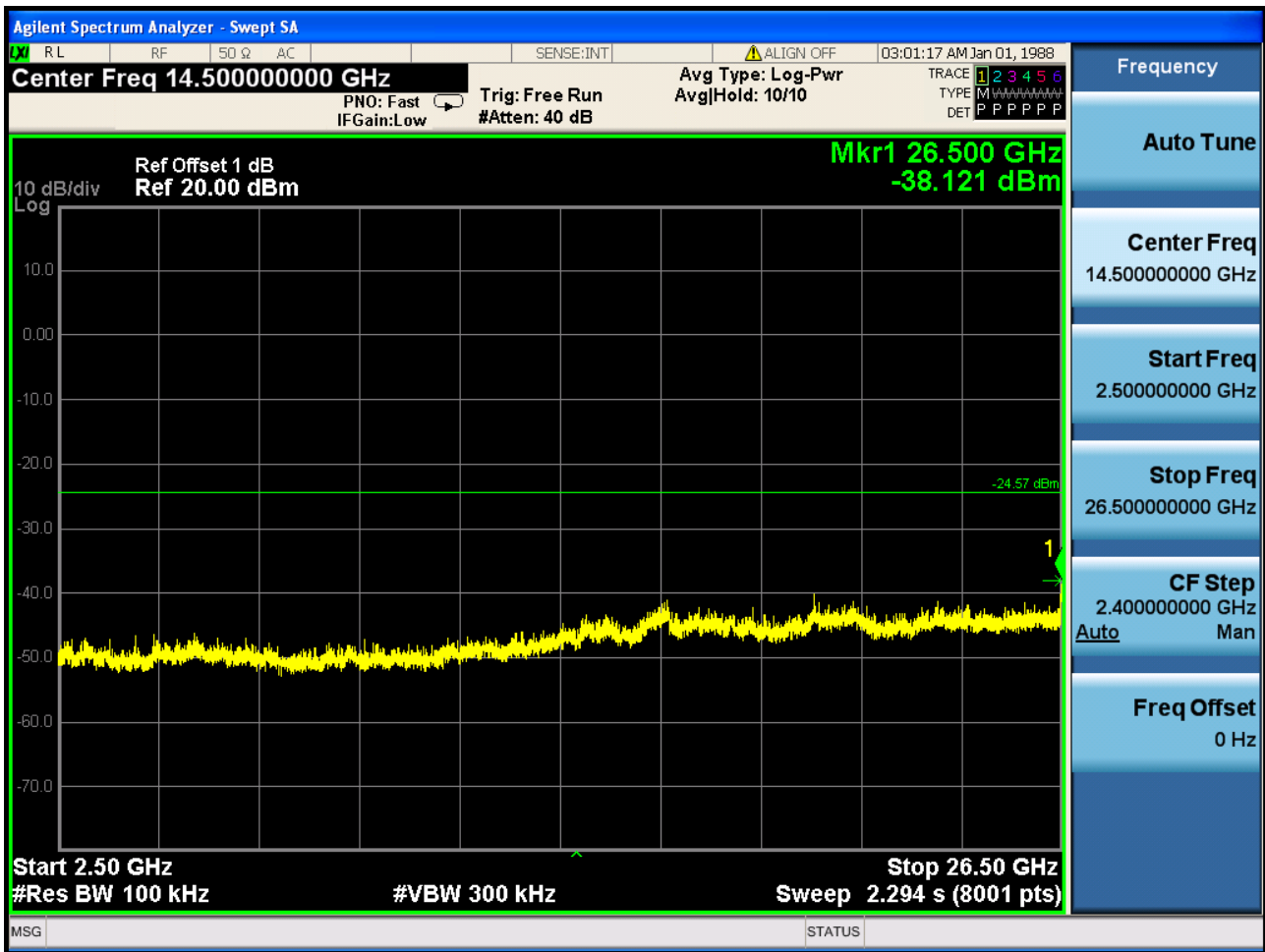
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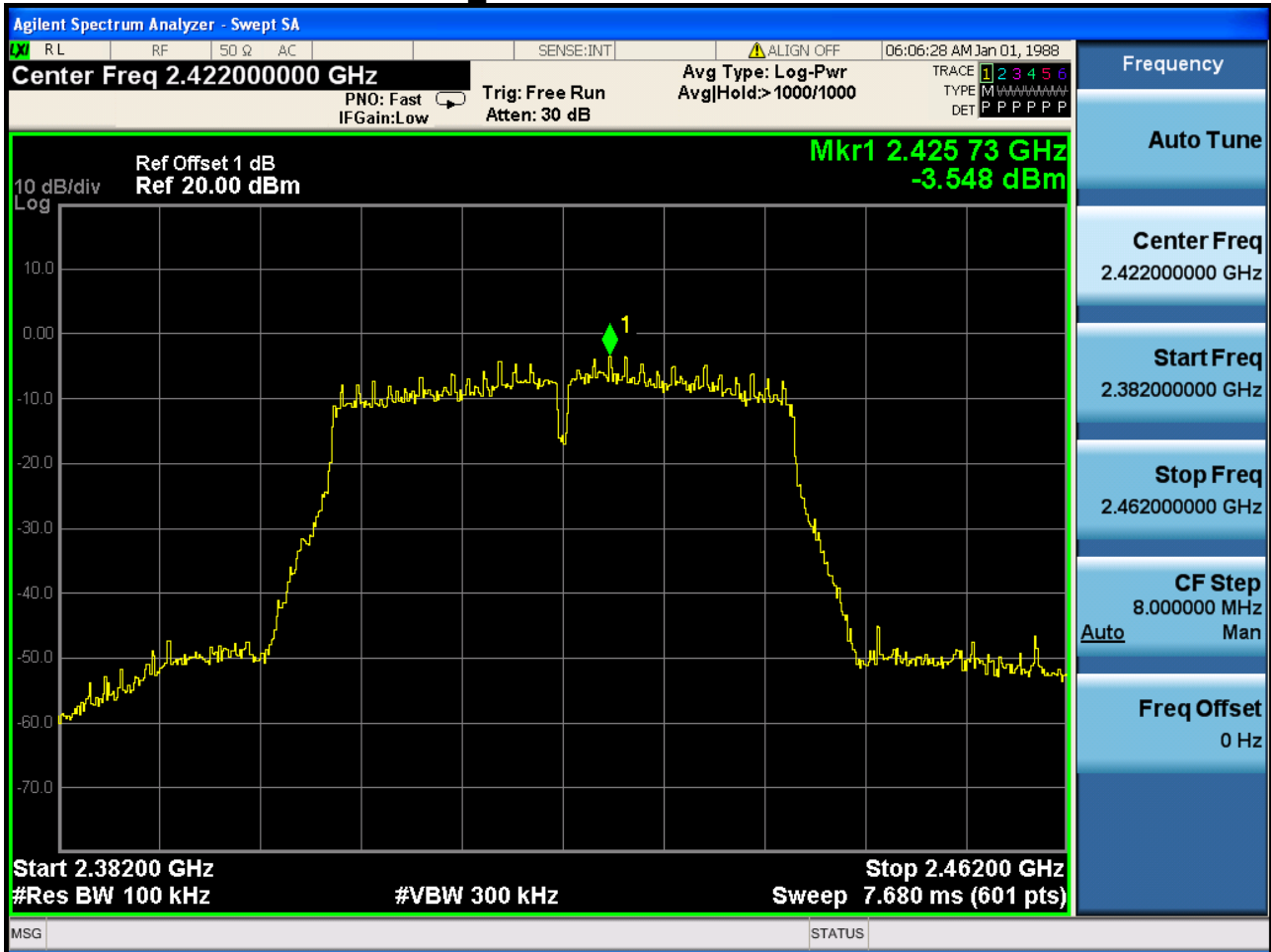
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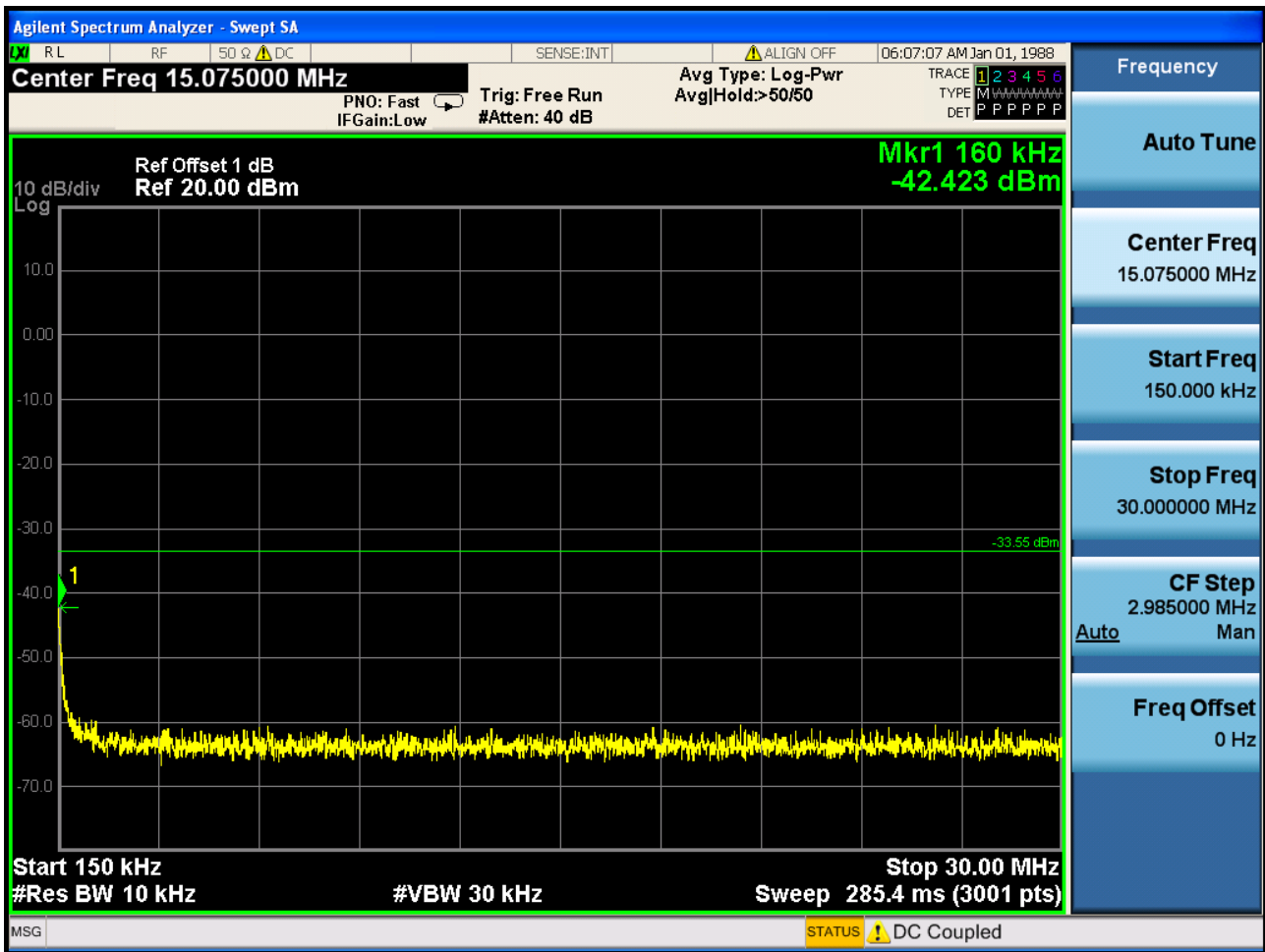


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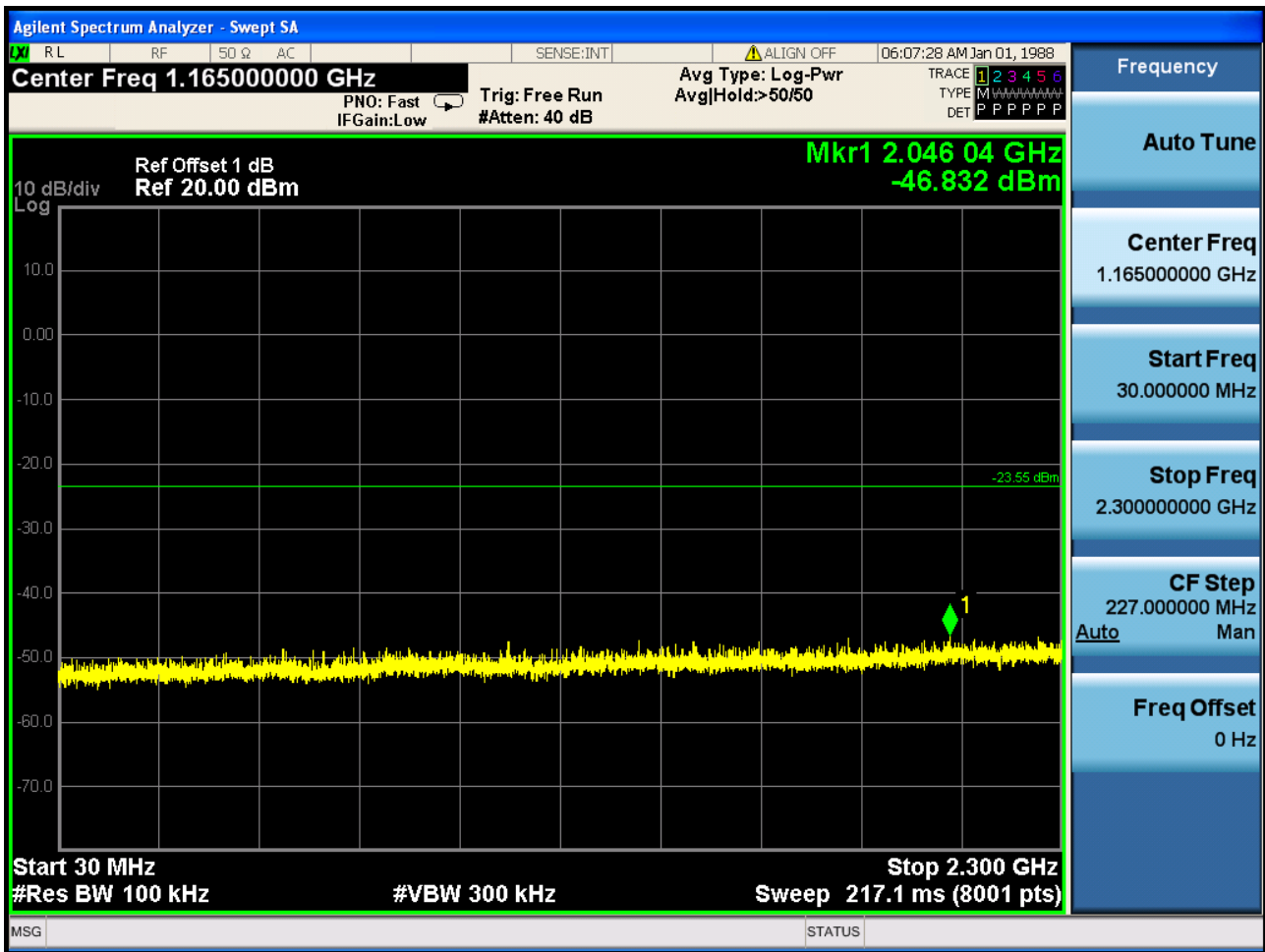
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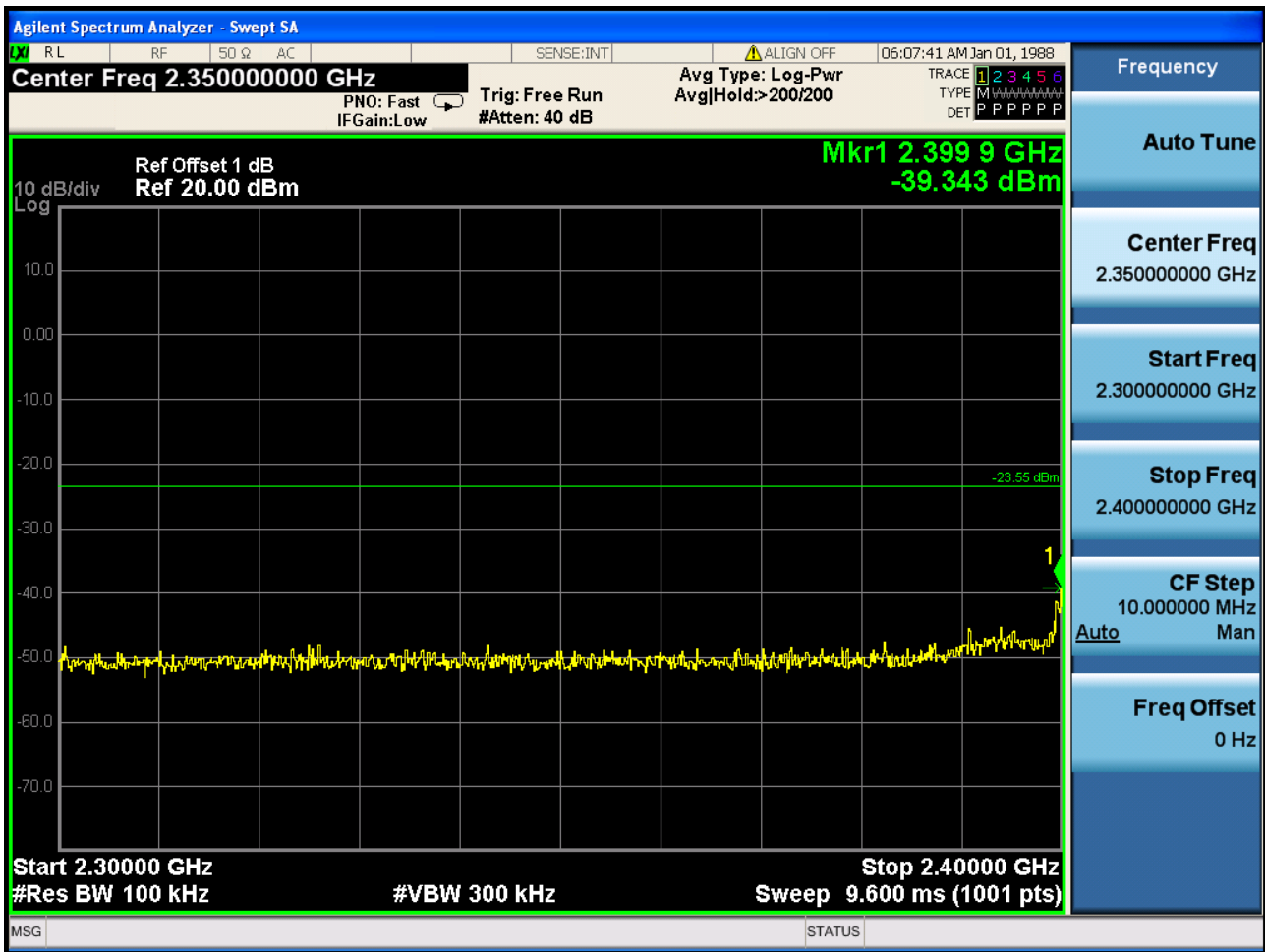
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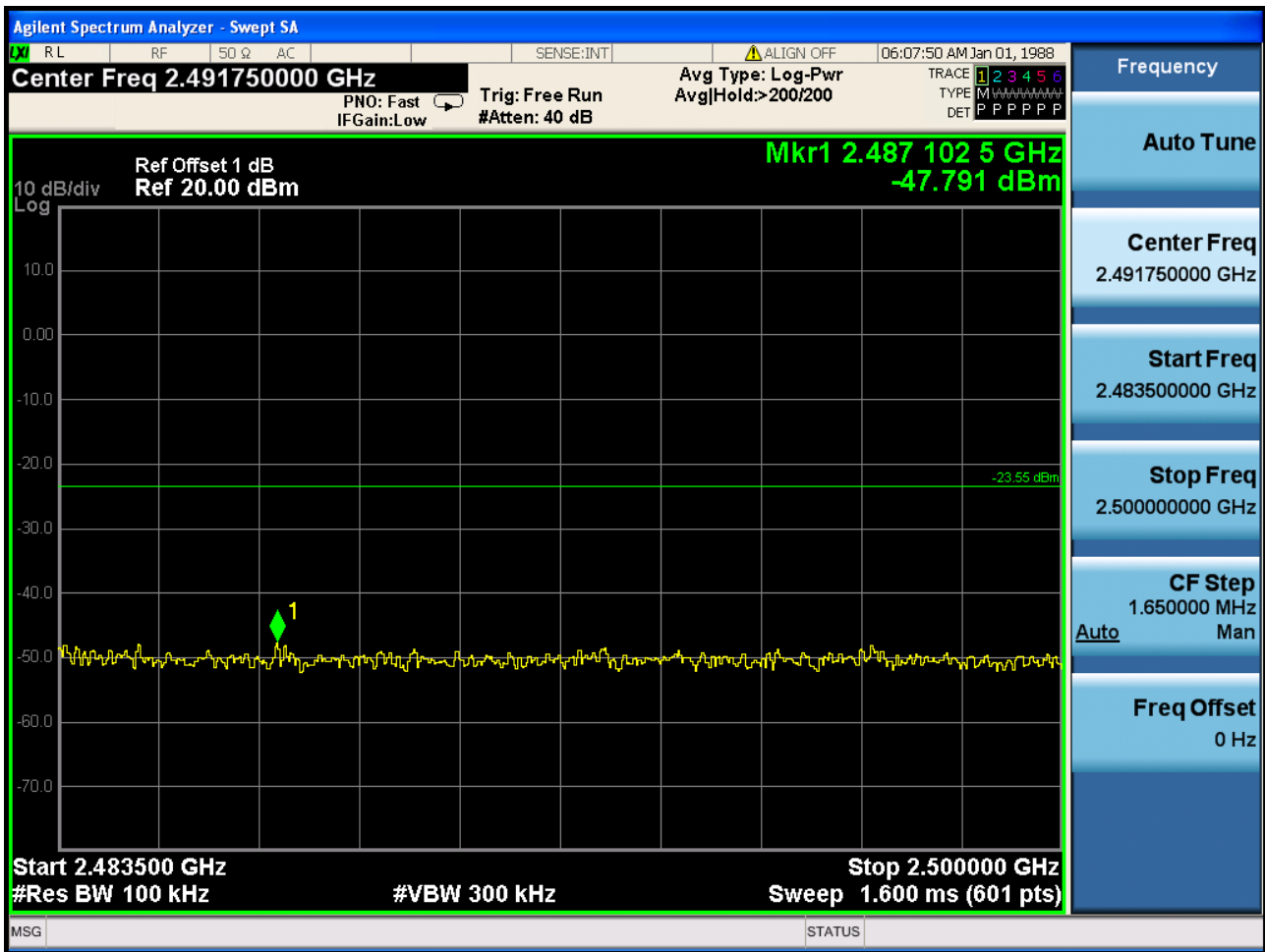
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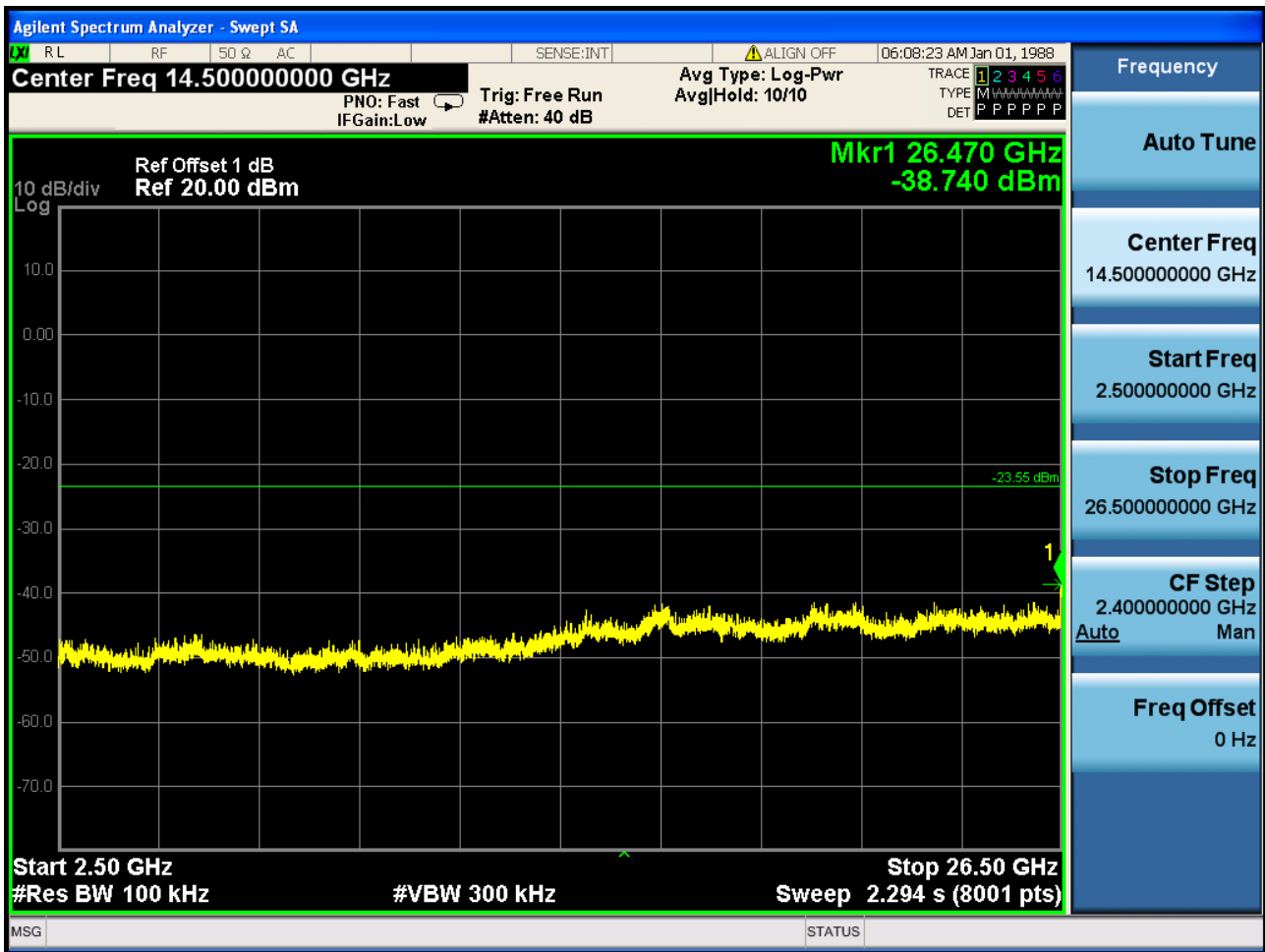
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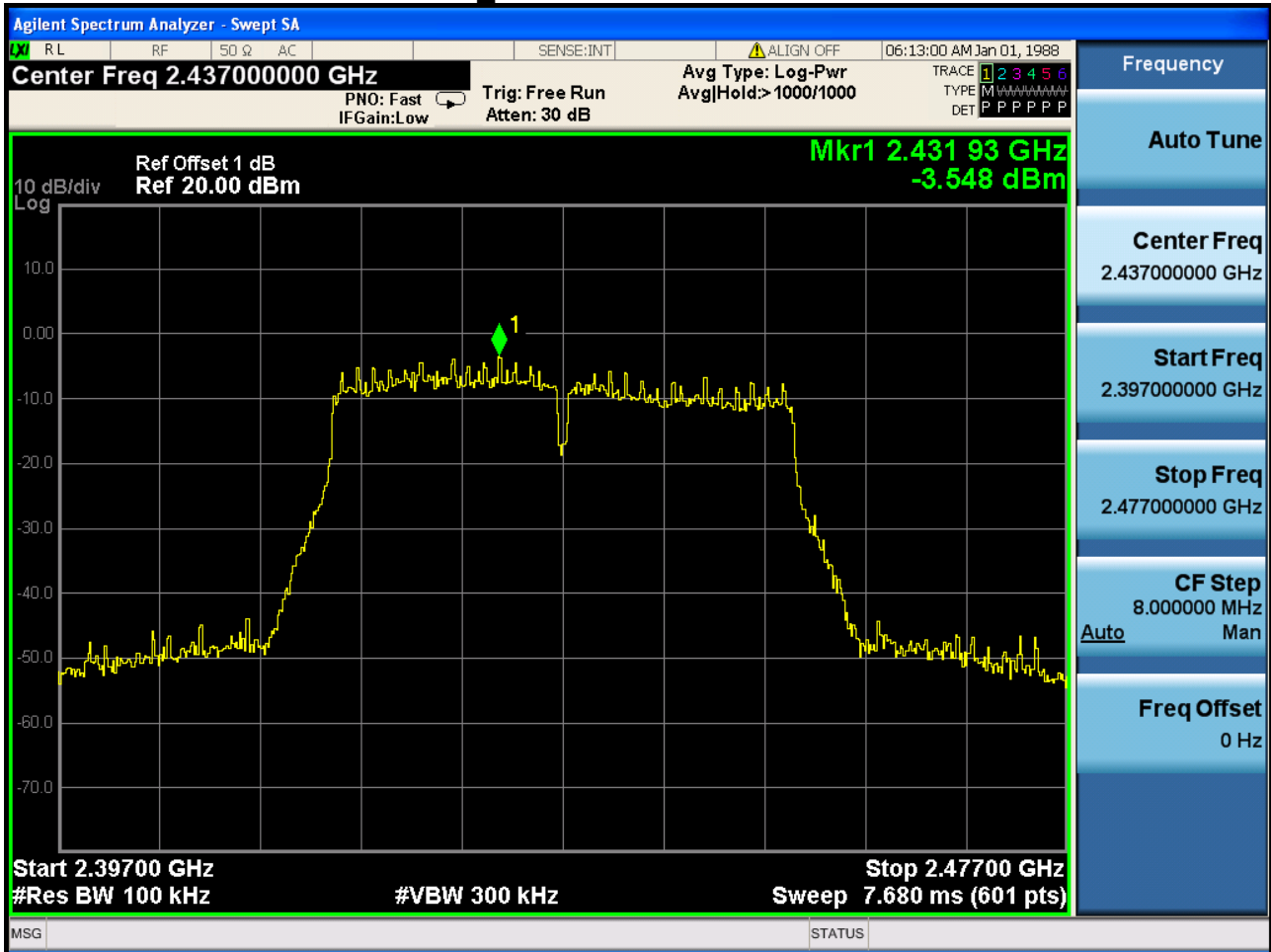




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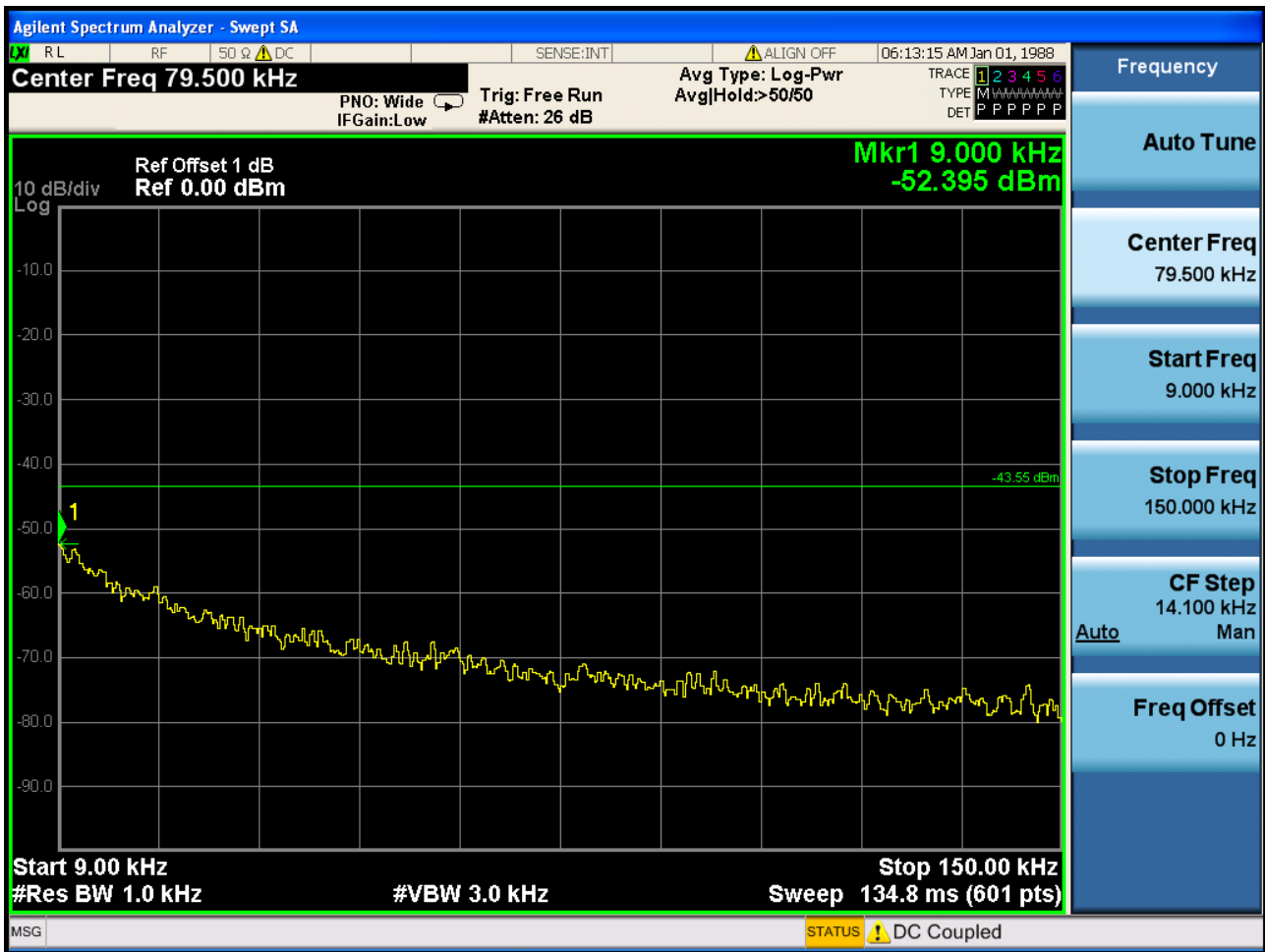
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**4.8.1.2.17 802.11 N40MIMO Middle Channel**



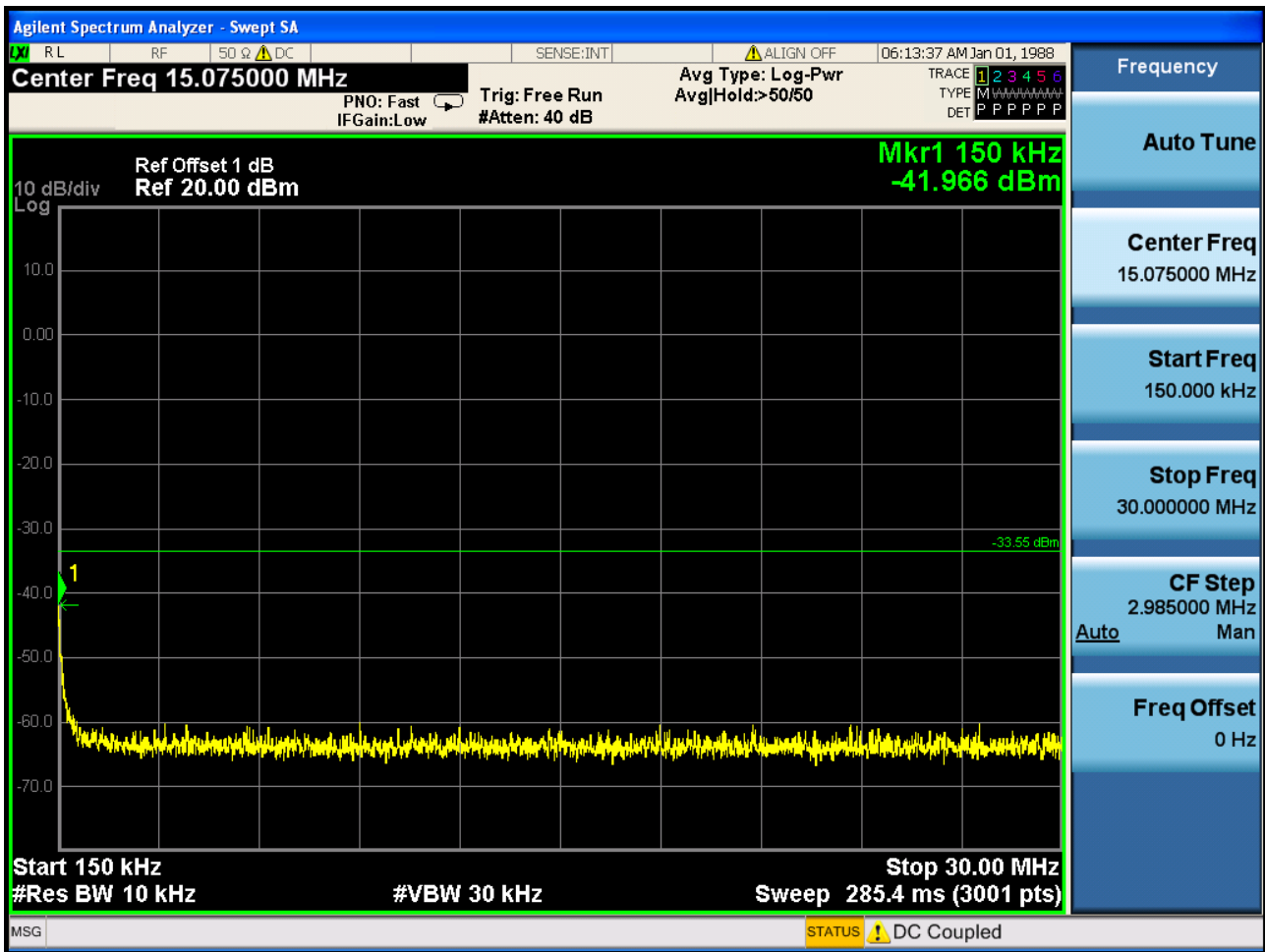
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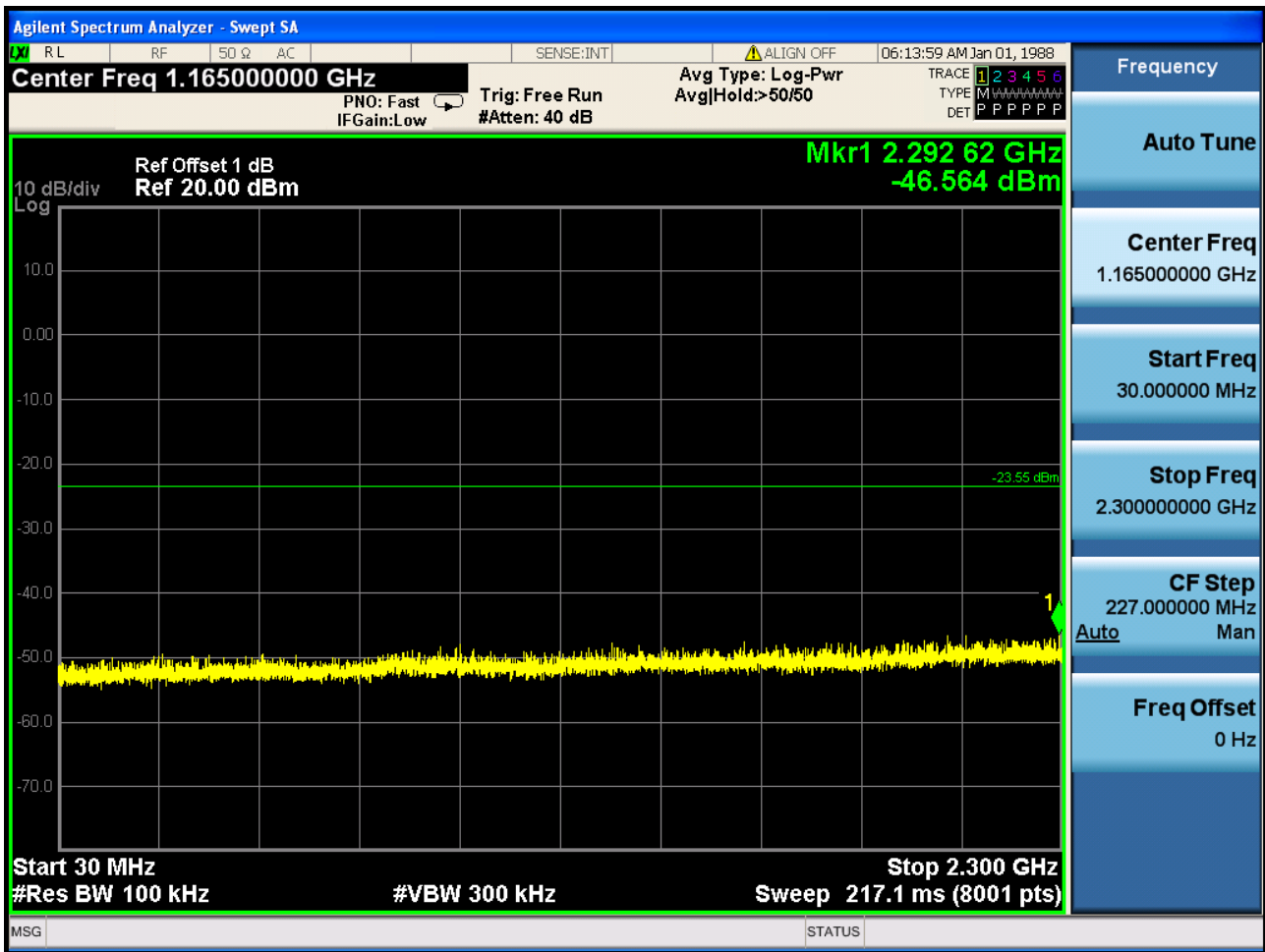
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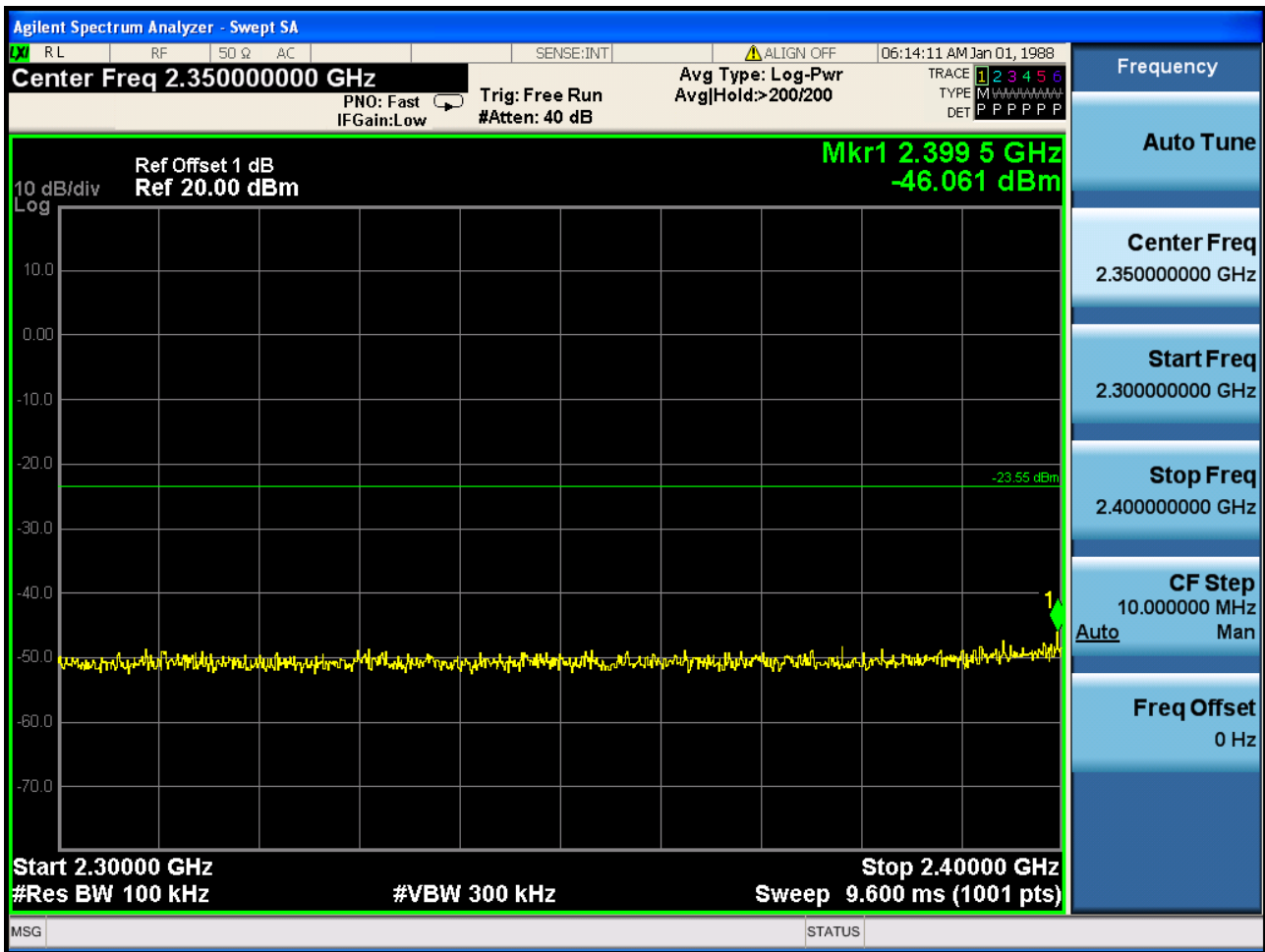
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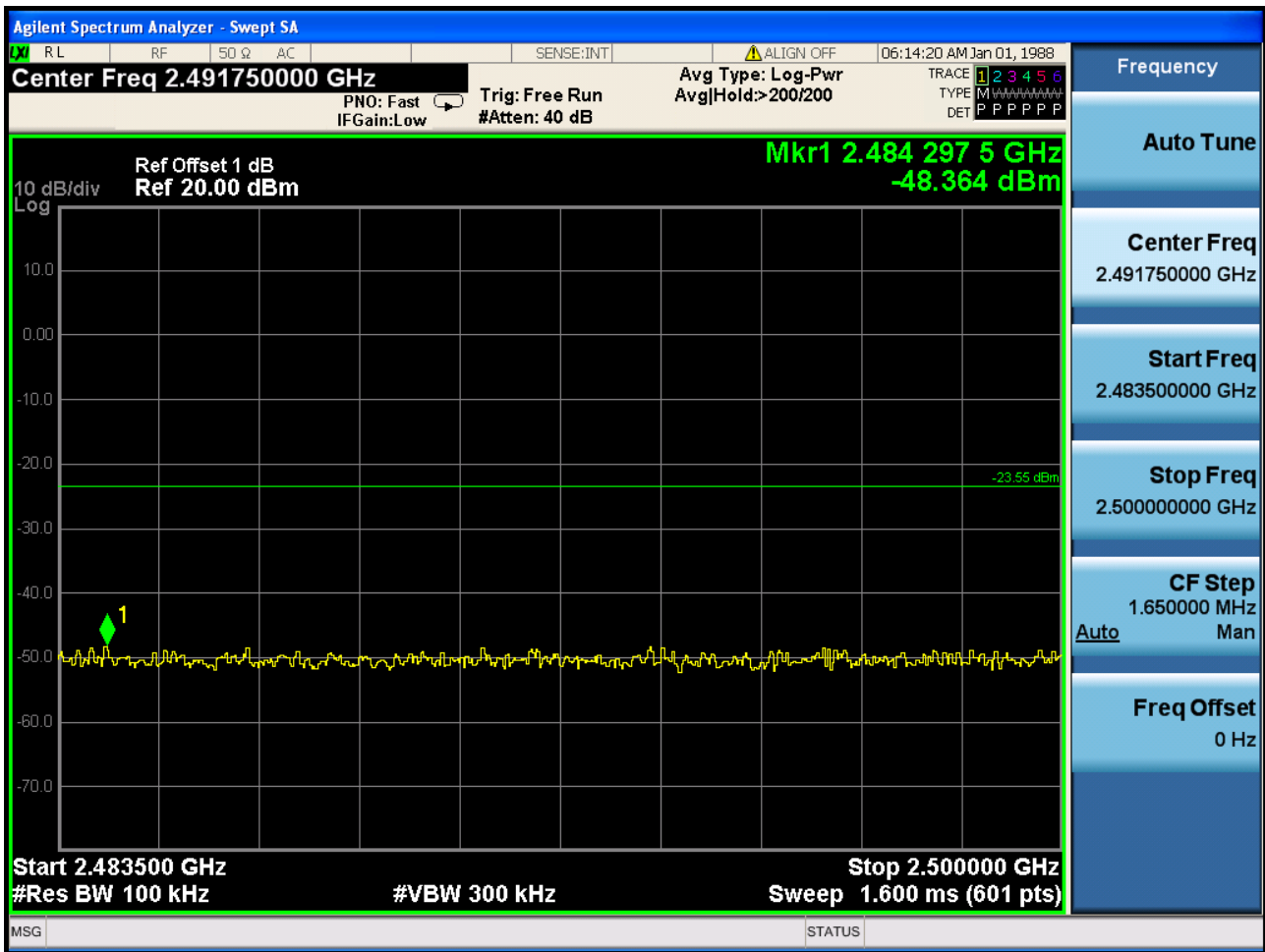
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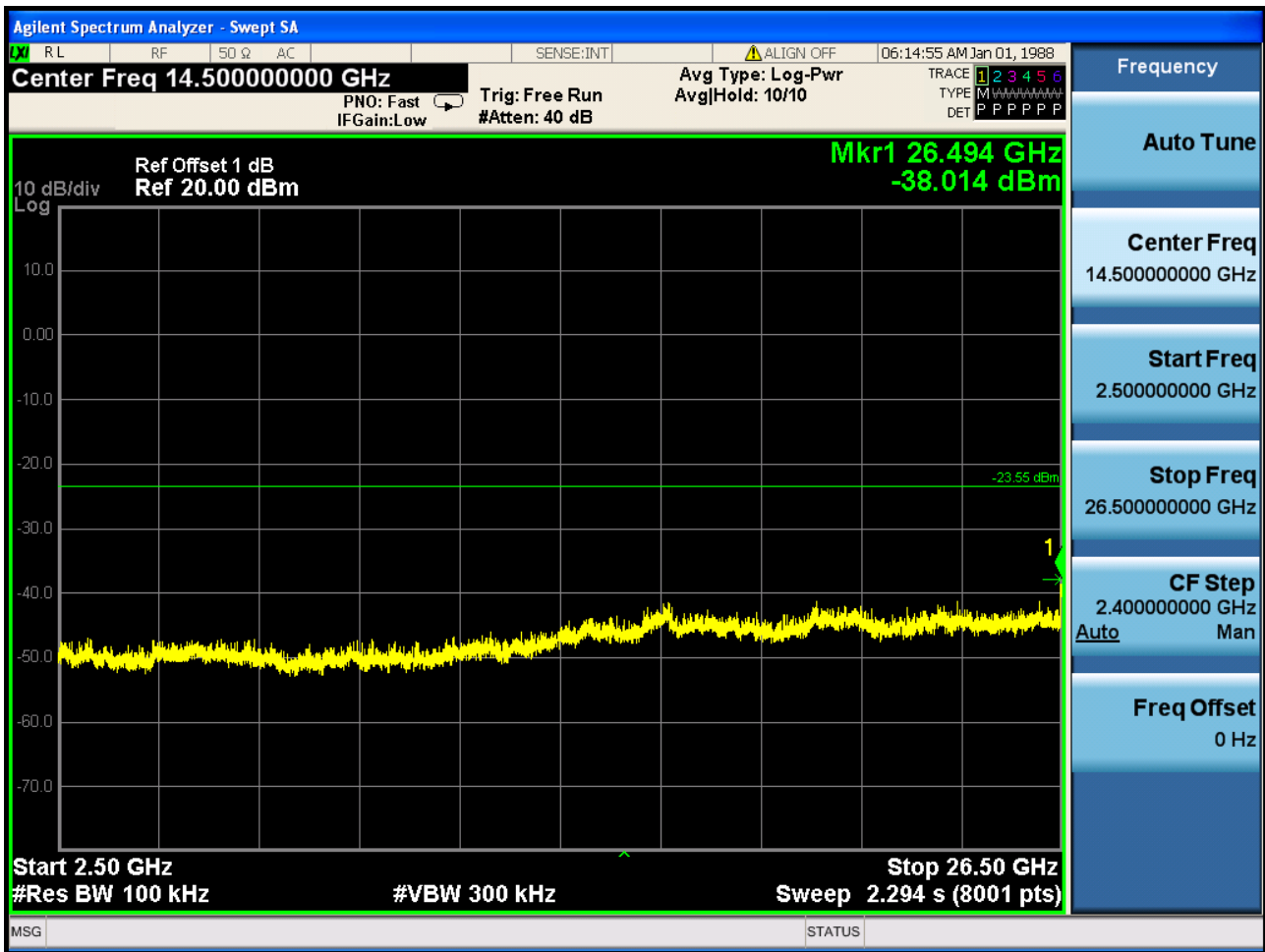
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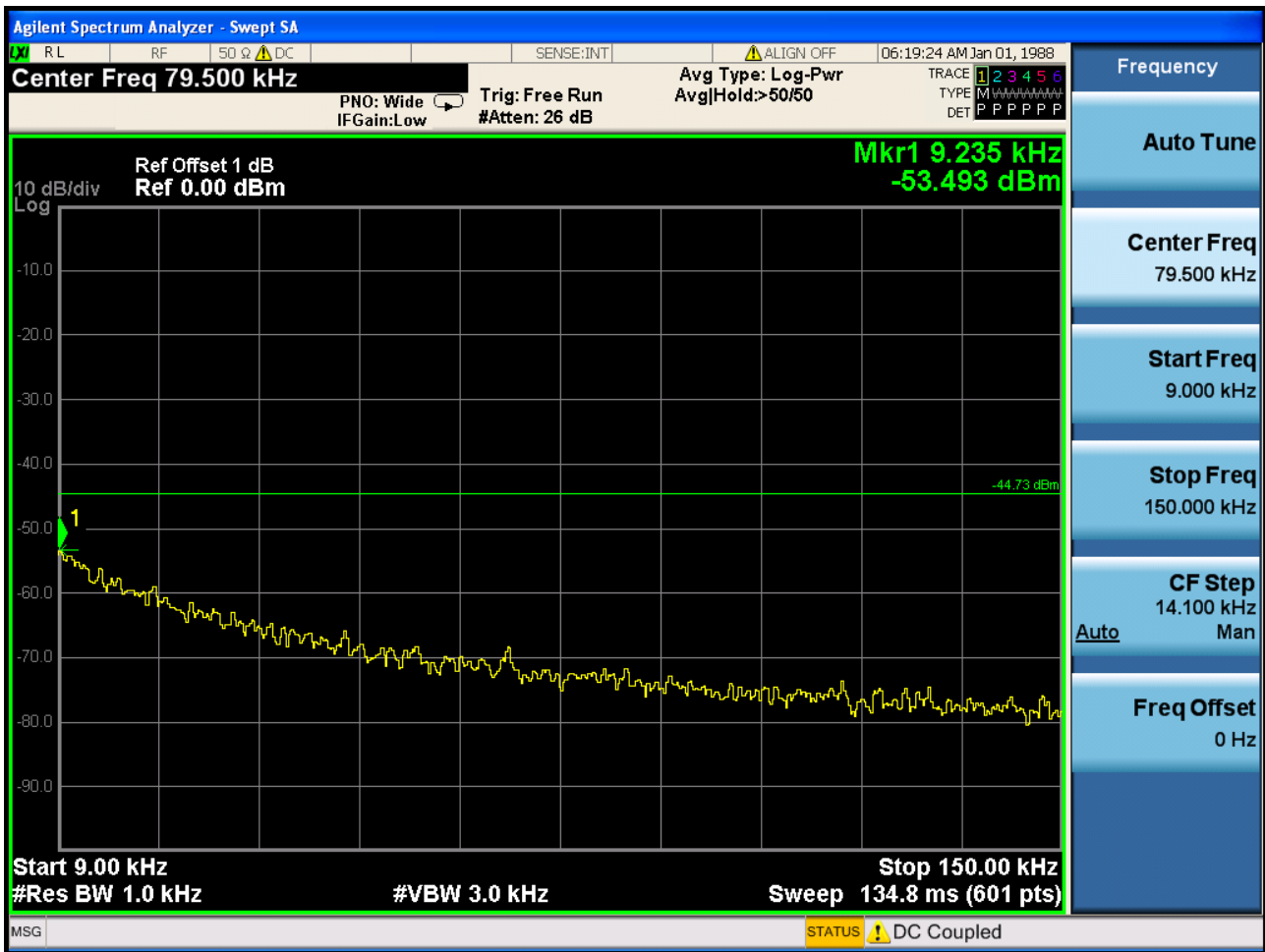


**4.8.1.2.18 802.11 N40MIMO\_Highest Channel**



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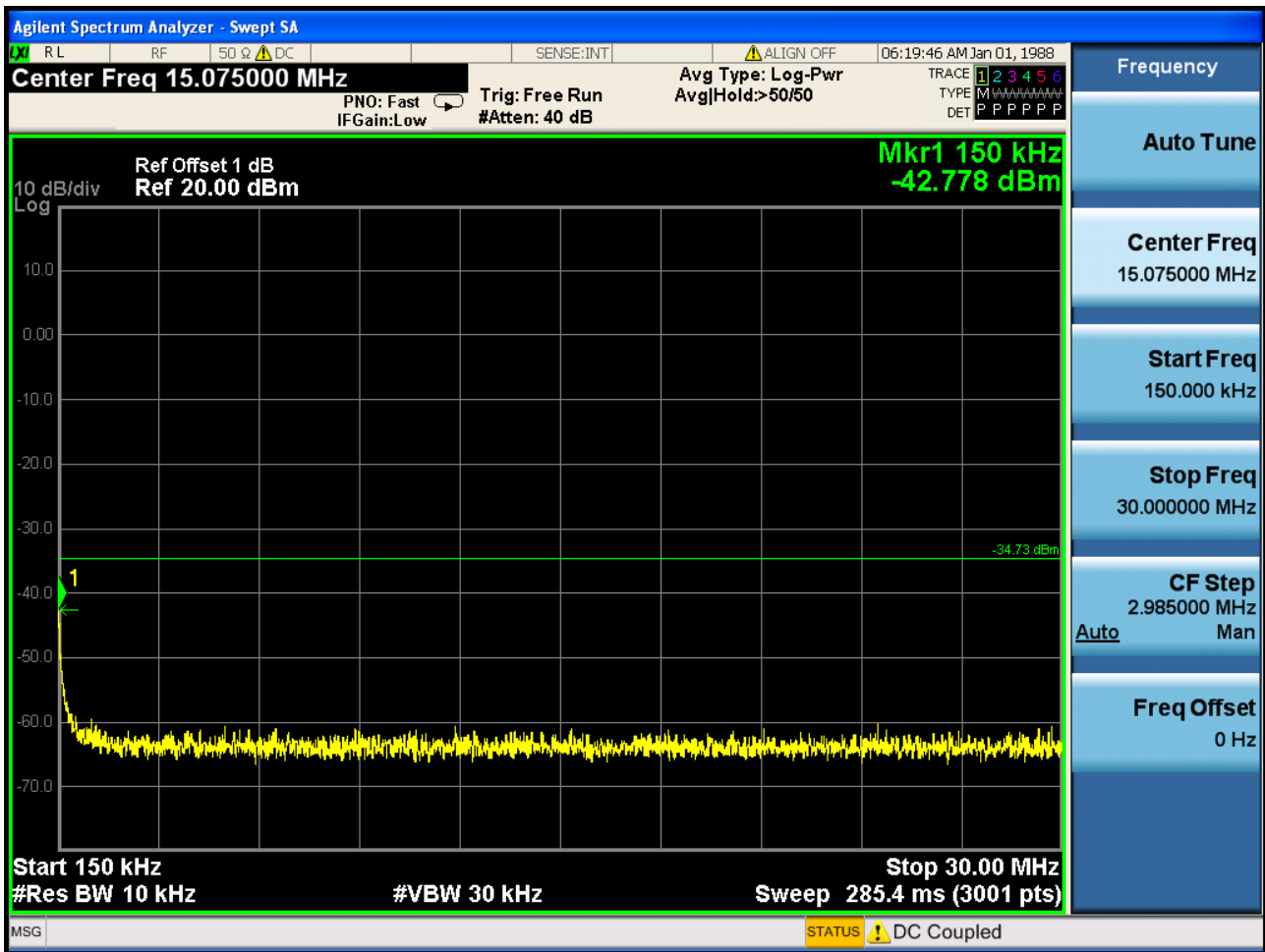
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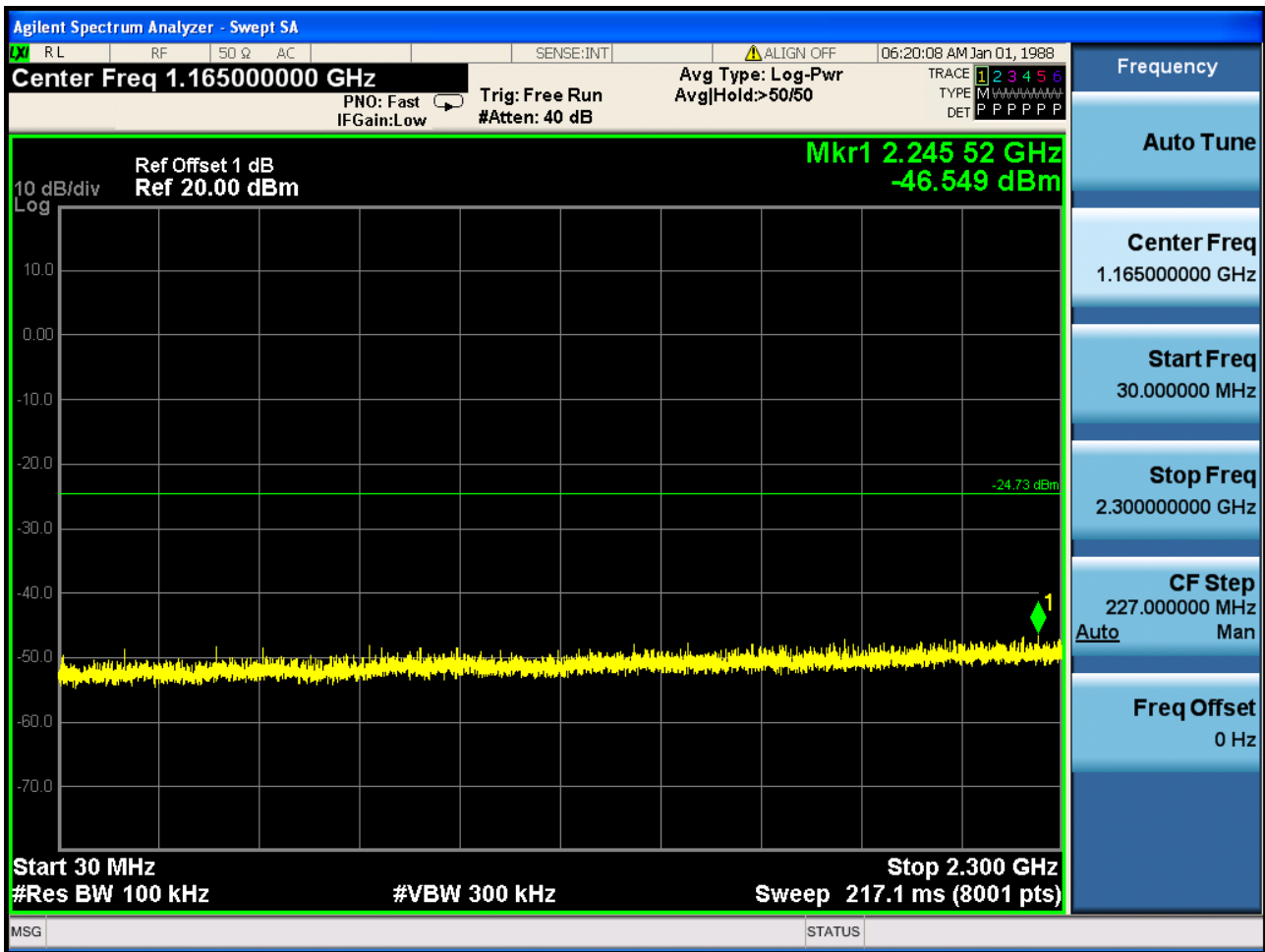
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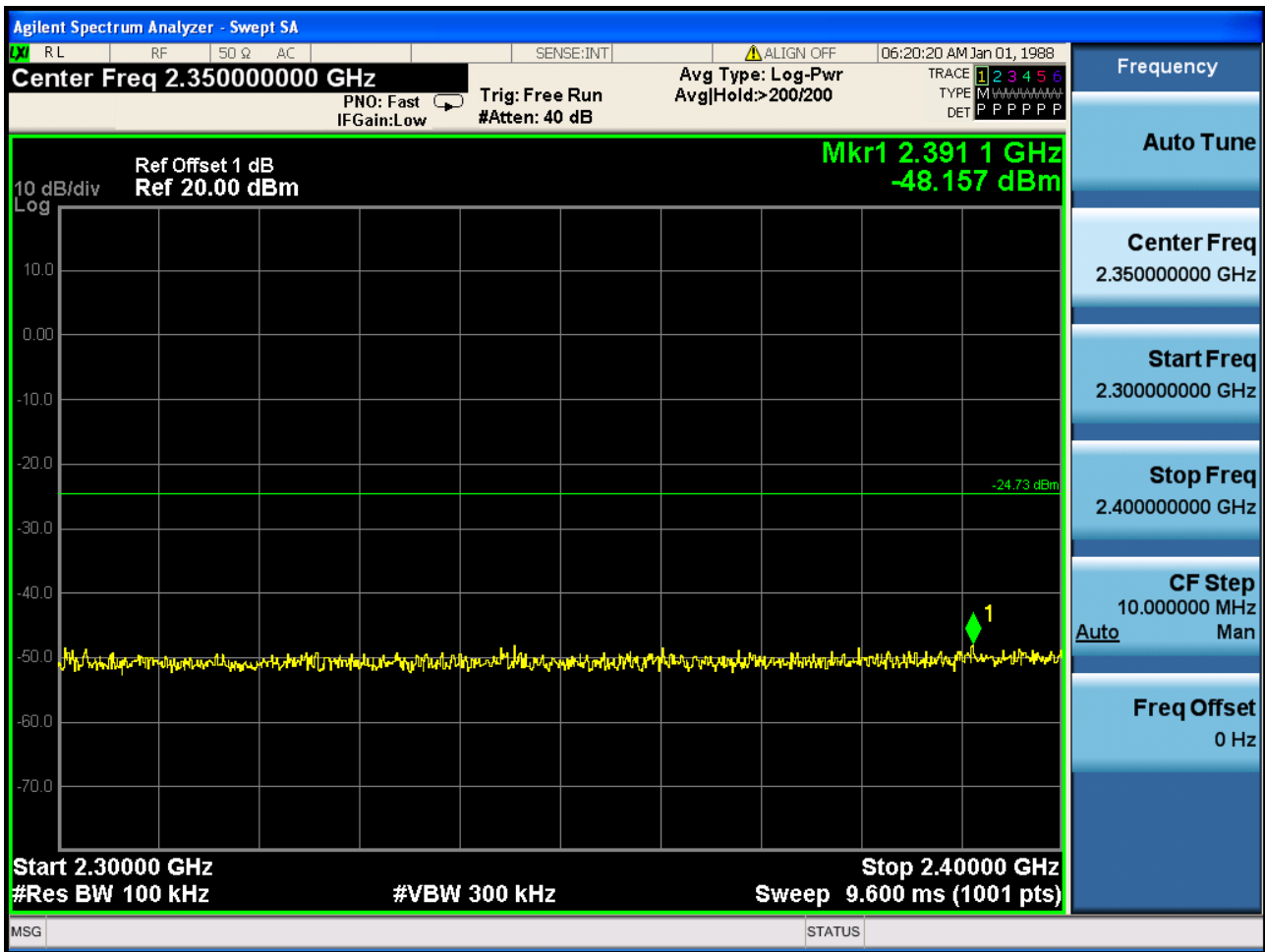
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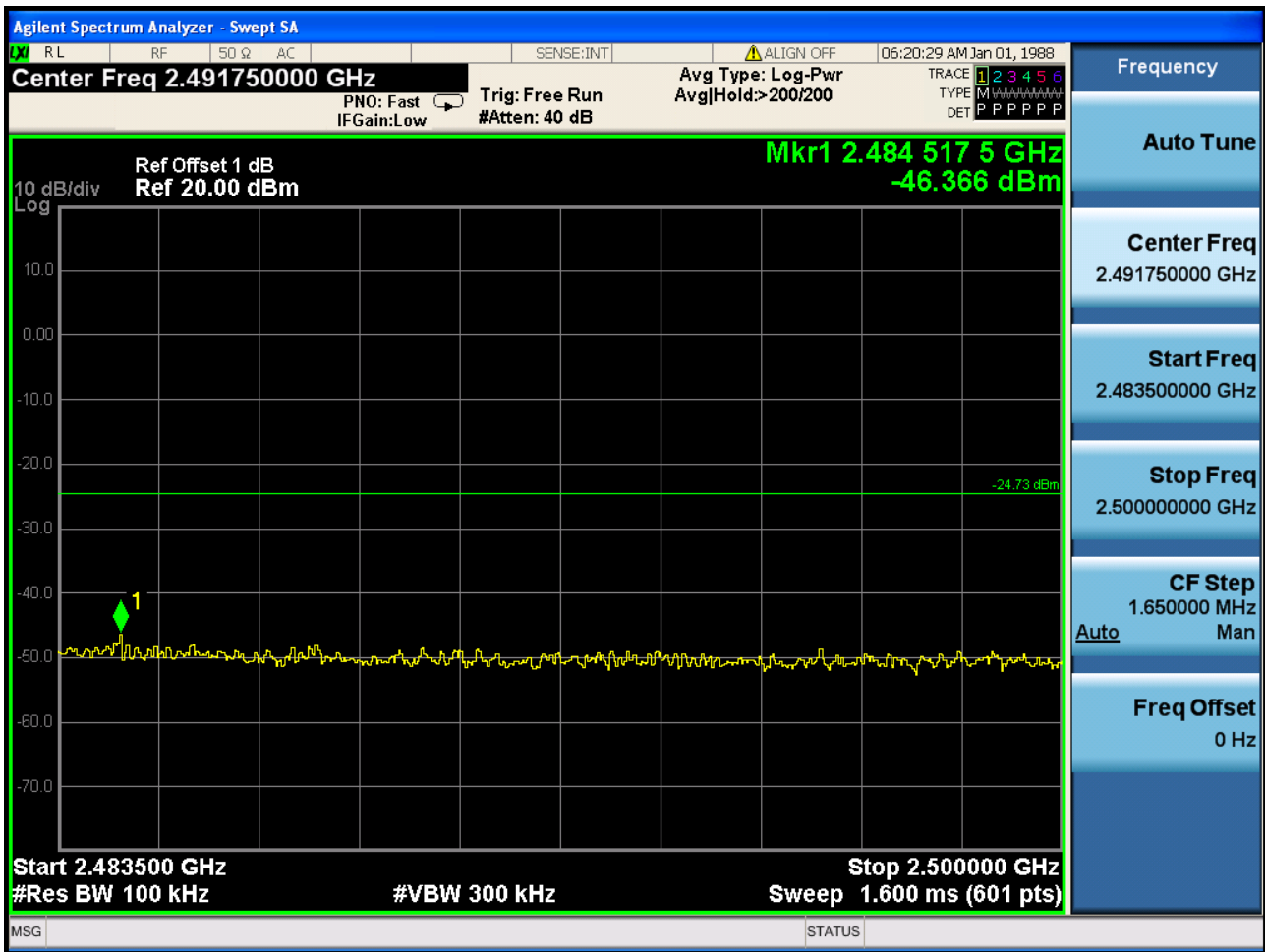
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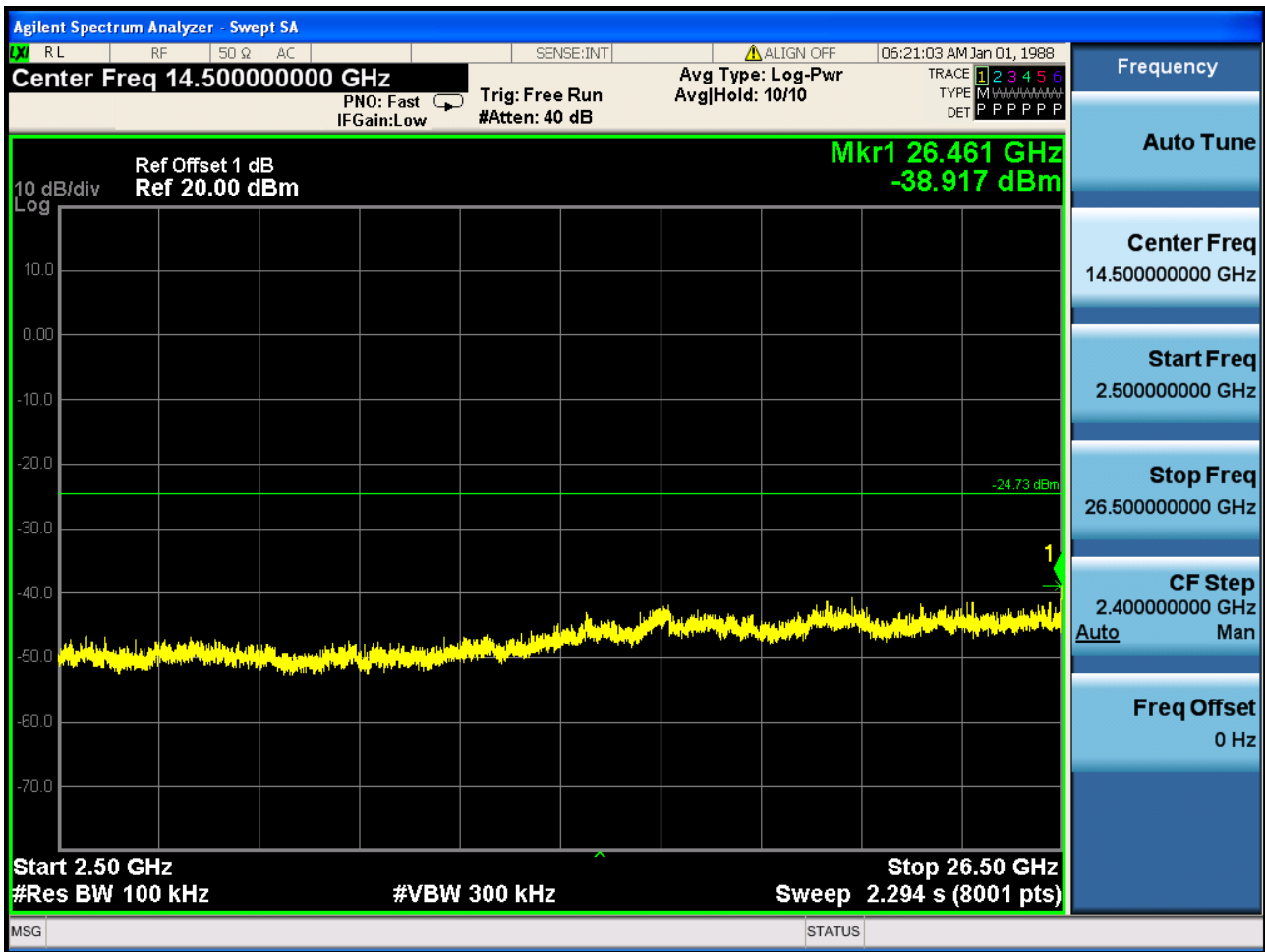
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**Remark:**

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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### 4.1 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:	
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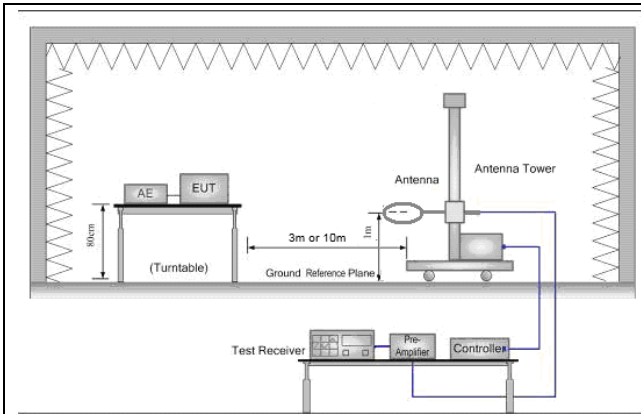


Figure 1. Below 30MHz

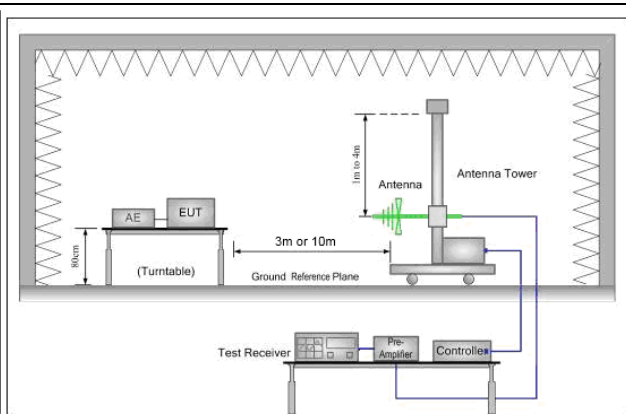


Figure 2. 30MHz to 1GHz

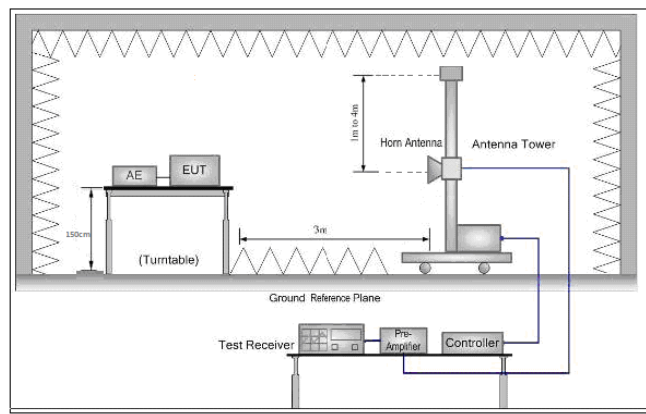


Figure 3. Above 1 GHz

**Test Procedure:**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be



	<p>re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G;</p> <p>6.5Mbps of rate is the worst case of 802.11N(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11N(HT40)</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



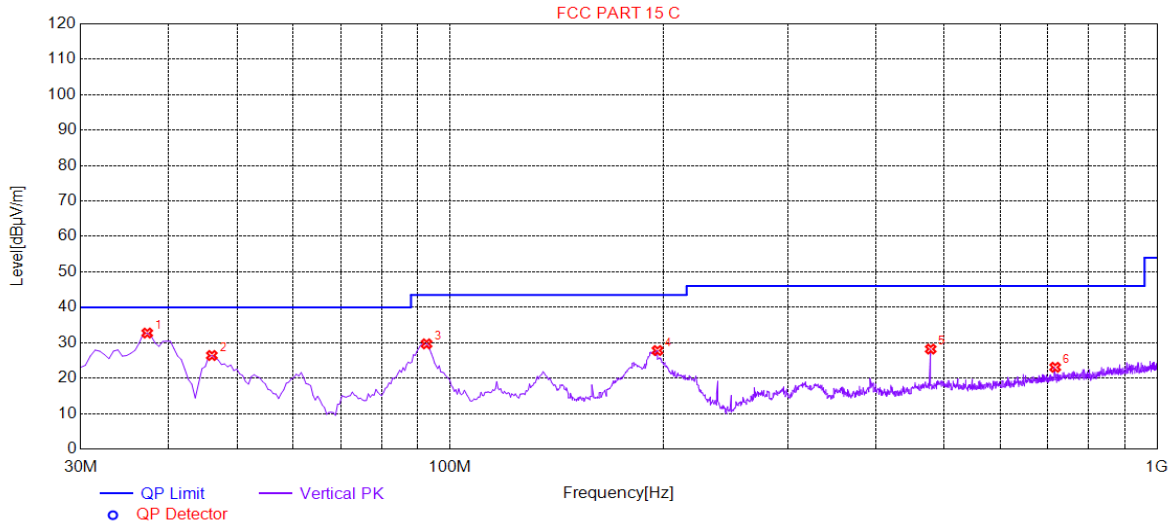
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**4.1.1 Radiated emission below 1GHz**

**4.1.1.1 Charge + Transmitting, Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	32.73	-32.03	40.00	7.27	100	190	Vertical
2	46.0130	26.40	-30.20	40.00	13.60	100	249	Vertical
3	92.5963	29.68	-32.98	43.50	13.82	100	90	Vertical
4	196.4382	27.80	-31.19	43.50	15.70	100	115	Vertical
5	478.3642	28.21	-23.25	46.00	17.79	100	249	Vertical
6	717.5888	23.07	-18.32	46.00	22.93	100	252	Vertical

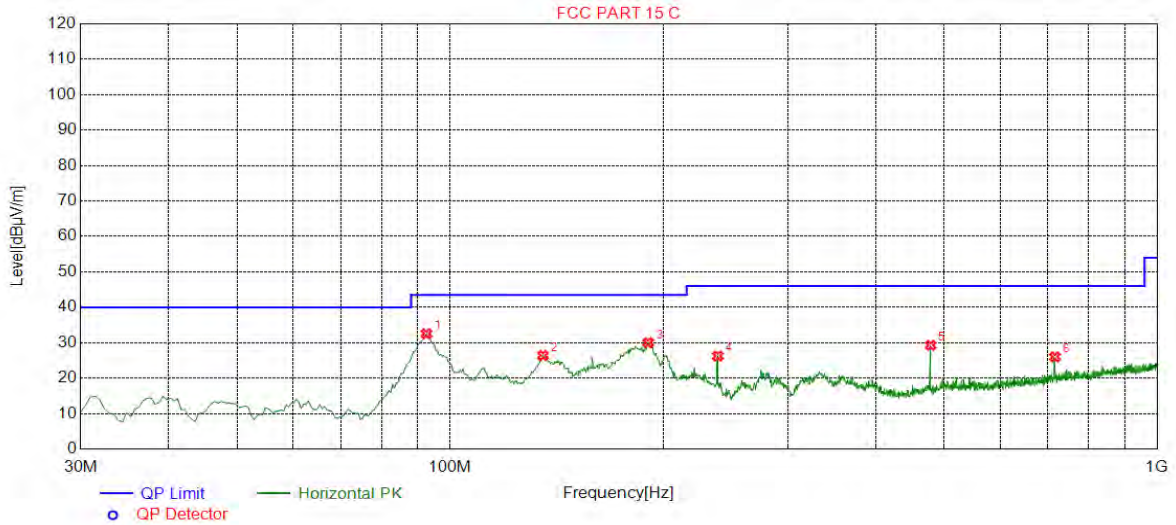


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**4.1.1.2 Charge + Transmitting, Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	92.5963	32.54	-32.98	43.50	10.96	200	275	Horizontal
2	135.2976	26.40	-35.01	43.50	17.10	200	70	Horizontal
3	190.6153	30.03	-31.81	43.50	13.47	100	78	Horizontal
4	239.1396	26.27	-29.63	46.00	19.73	100	109	Horizontal
5	478.3642	29.26	-23.25	46.00	16.74	200	235	Horizontal
6	717.1036	26.01	-18.33	46.00	19.99	100	291	Horizontal



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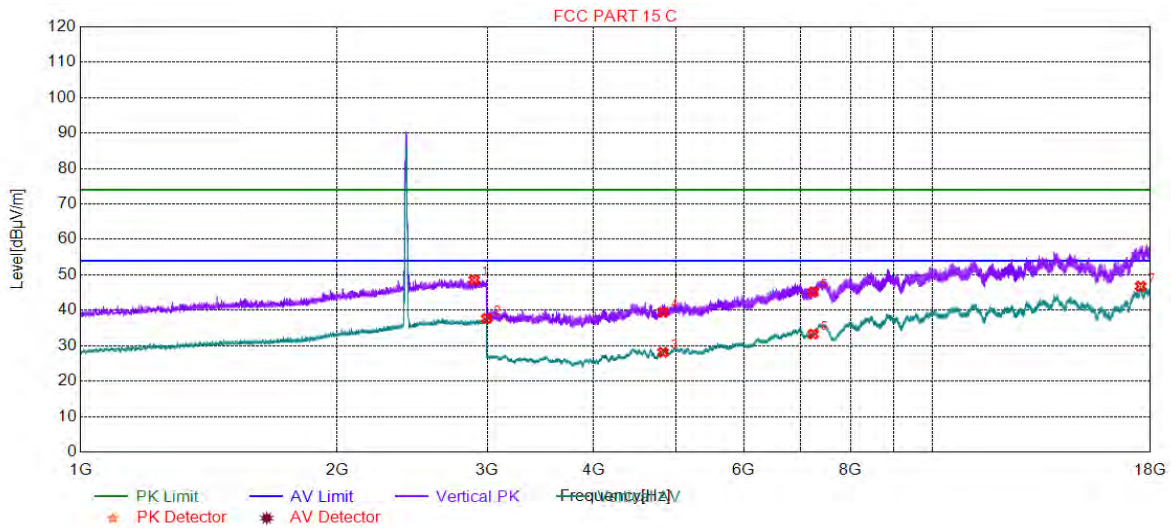
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**4.1.2 Transmitter emission above 1GHz**

**4.1.2.1 ANT1**

**4.1.2.1.1 802.11B\_Lowest Channel\_ Vertical**



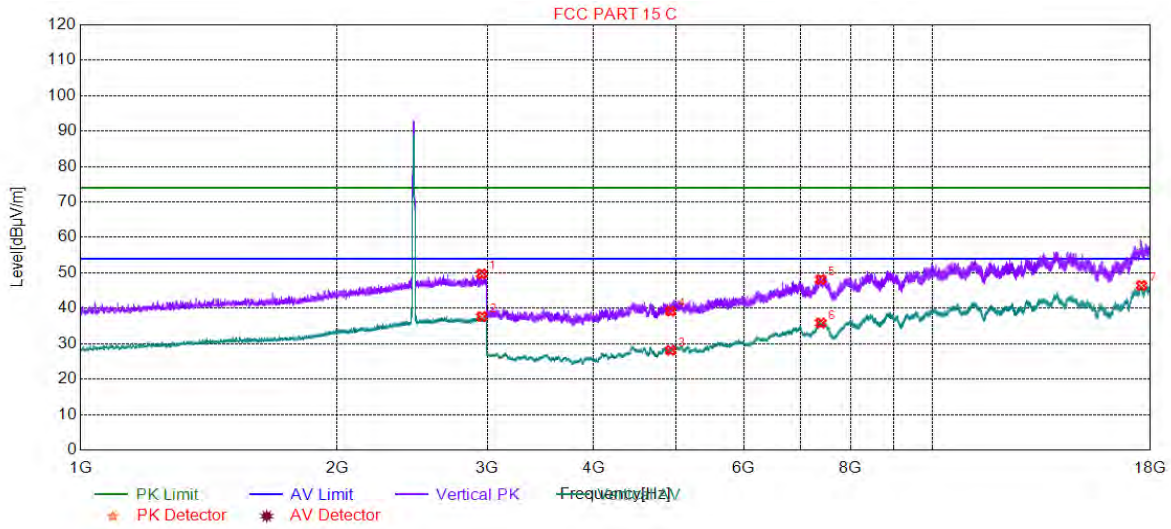
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2896.4741	48.56	2.26	74.00	25.44	150	200	Vertical
2	2996.9993	37.69	2.33	54.00	16.31	150	272	Vertical
3	4824.0000	28.14	-20.09	54.00	25.86	150	327	Vertical
4	4824.0000	39.45	-20.09	74.00	34.55	150	262	Vertical
5	7236.0000	45.14	-12.40	74.00	28.86	150	100	Vertical
6	7236.0000	33.31	-12.40	54.00	20.69	150	100	Vertical
7	17526.976	46.75	0.70	54.00	7.25	150	25	Vertical



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**4.1.2.1.2 802.11B\_ Middle Channel\_ Vertical**



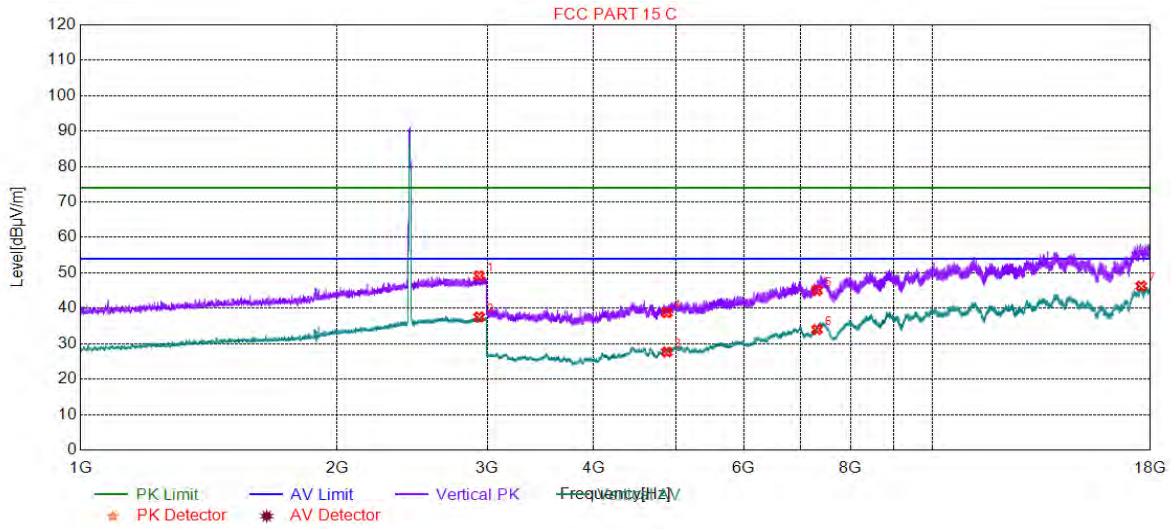
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.4889	49.69	2.30	74.00	24.31	150	183	Vertical
2	2956.9892	37.67	2.30	54.00	16.33	150	175	Vertical
3	4924.0000	28.14	-18.87	54.00	25.86	150	229	Vertical
4	4924.0000	39.18	-18.87	74.00	34.82	150	99	Vertical
5	7386.0000	48.16	-10.72	74.00	25.84	150	148	Vertical
6	7386.0000	35.82	-10.72	54.00	18.18	150	262	Vertical
7	17562.978	46.44	1.16	54.00	7.56	150	100	Vertical



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**4.1.2.1.3 802.11B\_ Highest Channel\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.4836	49.20	2.28	74.00	24.80	150	359	Vertical
2	2935.4839	37.56	2.28	54.00	16.44	150	245	Vertical
3	4874.0000	27.67	-19.37	54.00	26.33	150	357	Vertical
4	4874.0000	38.72	-19.37	74.00	35.28	150	197	Vertical
5	7311.0000	45.05	-11.50	74.00	28.95	150	99	Vertical
6	7311.0000	34.00	-11.50	54.00	20.00	150	229	Vertical
7	17552.477	46.27	1.02	54.00	7.73	150	169	Vertical

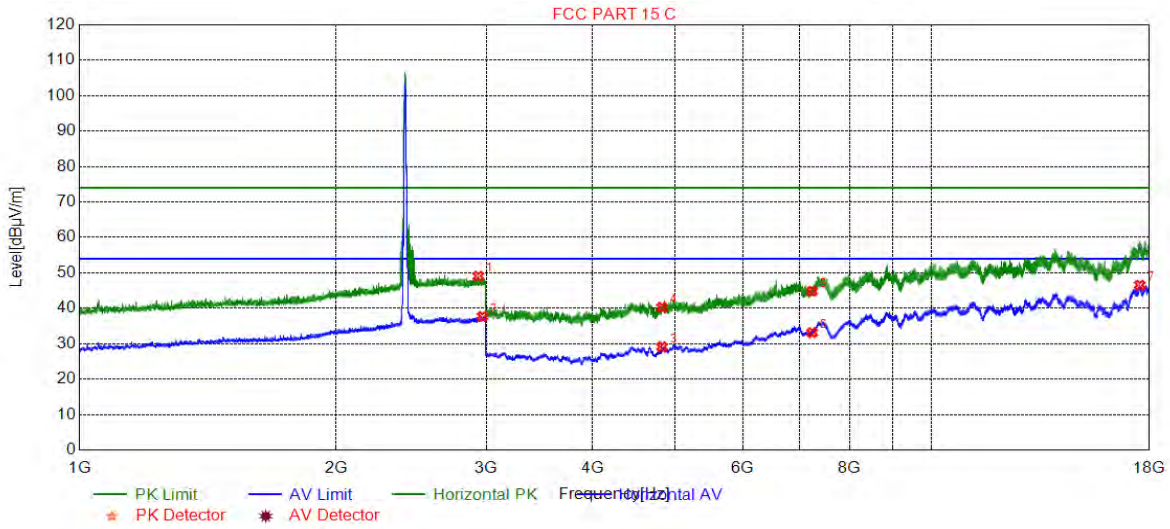


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**4.1.2.1.4 802.11B\_Lowest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2936.9842	49.07	2.29	74.00	24.93	150	17	Horizontal
2	2969.4924	37.72	2.31	54.00	16.28	150	152	Horizontal
3	4824.0000	29.13	-20.09	54.00	24.87	150	18	Horizontal
4	4824.0000	40.25	-20.09	74.00	33.75	150	34	Horizontal
5	7236.0000	44.84	-12.40	74.00	29.16	150	245	Horizontal
6	7236.0000	33.14	-12.40	54.00	20.86	150	131	Horizontal
7	17533.476	46.54	0.78	54.00	7.46	150	111	Horizontal

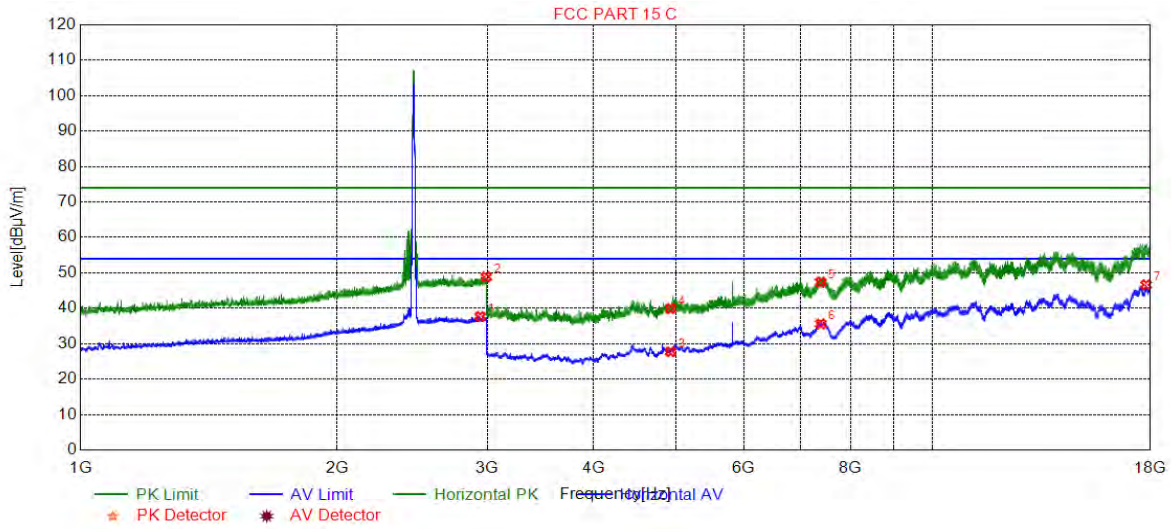


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**4.1.2.1.5 802.11B\_ Middle Channel\_ Horizontal**



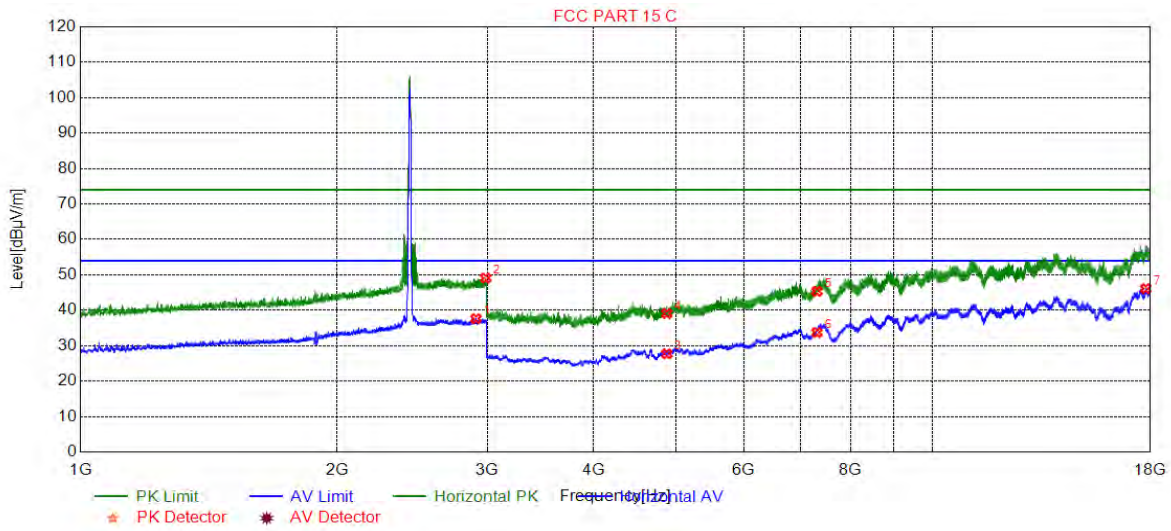
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.9860	37.72	2.29	54.00	16.28	150	112	Horizontal
2	2991.9980	48.87	2.32	74.00	25.13	150	208	Horizontal
3	4924.0000	27.75	-18.87	54.00	26.25	150	294	Horizontal
4	4924.0000	39.94	-18.87	74.00	34.06	150	18	Horizontal
5	7386.0000	47.35	-10.72	74.00	26.65	150	34	Horizontal
6	7386.0000	35.60	-10.72	54.00	18.40	150	34	Horizontal
7	17787.989	46.61	-0.79	54.00	7.39	150	255	Horizontal



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**4.1.2.1.6 802.11B\_ Highest Channel\_ Horizontal**



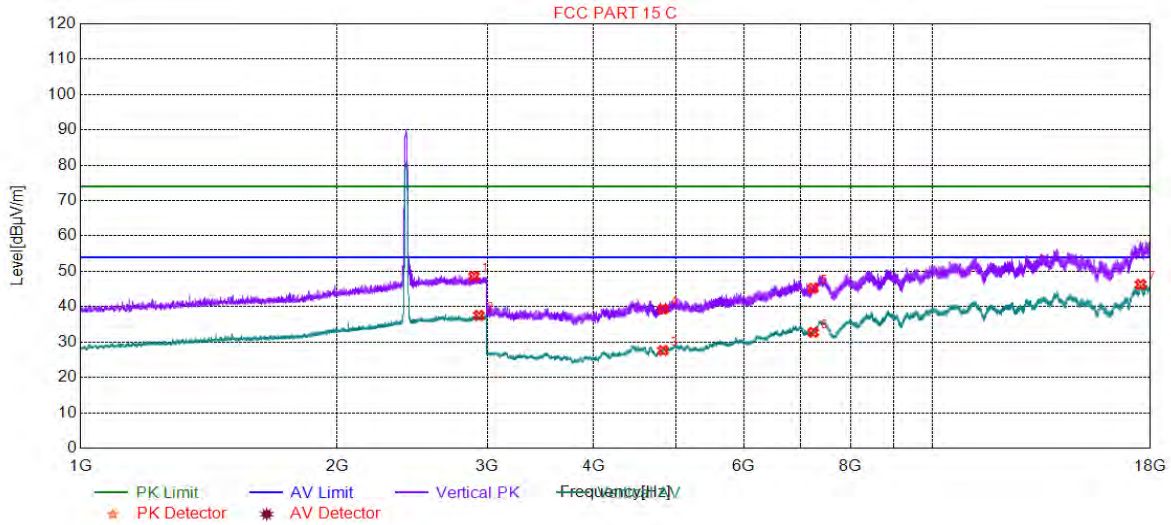
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2910.4776	37.62	2.27	54.00	16.38	150	1	Horizontal
2	2987.9970	49.10	2.32	74.00	24.90	150	76	Horizontal
3	4874.0000	27.73	-19.37	54.00	26.27	150	148	Horizontal
4	4874.0000	39.09	-19.37	74.00	34.91	150	164	Horizontal
5	7311.0000	45.36	-11.50	74.00	28.64	150	230	Horizontal
6	7311.0000	33.71	-11.50	54.00	20.29	150	214	Horizontal
7	17769.488	46.11	-0.83	54.00	7.89	150	168	Horizontal



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**4.1.2.1.7 802.11G\_Lowest Channel\_Vertical**



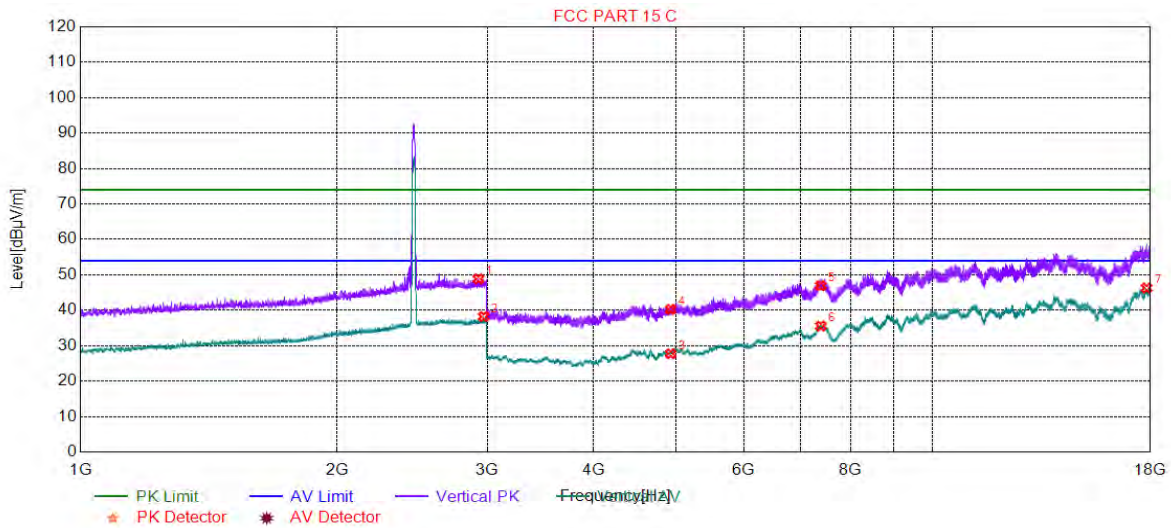
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2895.4739	48.58	2.25	74.00	25.42	150	161	Vertical
2	2933.4834	37.53	2.28	54.00	16.47	150	161	Vertical
3	4824.0000	27.60	-20.09	54.00	26.40	150	164	Vertical
4	4824.0000	39.35	-20.09	74.00	34.65	150	18	Vertical
5	7236.0000	45.22	-12.40	74.00	28.78	150	312	Vertical
6	7236.0000	32.75	-12.40	54.00	21.25	150	99	Vertical
7	17528.476	46.27	0.71	54.00	7.73	150	1	Vertical



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**4.1.2.1.8 802.11G\_Middle Channel\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2929.9825	48.86	2.28	74.00	25.14	150	67	Vertical
2	2970.9927	38.24	2.31	54.00	15.76	150	138	Vertical
3	4924.0000	27.74	-18.87	54.00	26.26	150	132	Vertical
4	4924.0000	40.27	-18.87	74.00	33.73	150	164	Vertical
5	7386.0000	46.96	-10.72	74.00	27.04	150	278	Vertical
6	7386.0000	35.56	-10.72	54.00	18.44	150	295	Vertical
7	17812.990	46.29	-0.81	54.00	7.71	150	342	Vertical

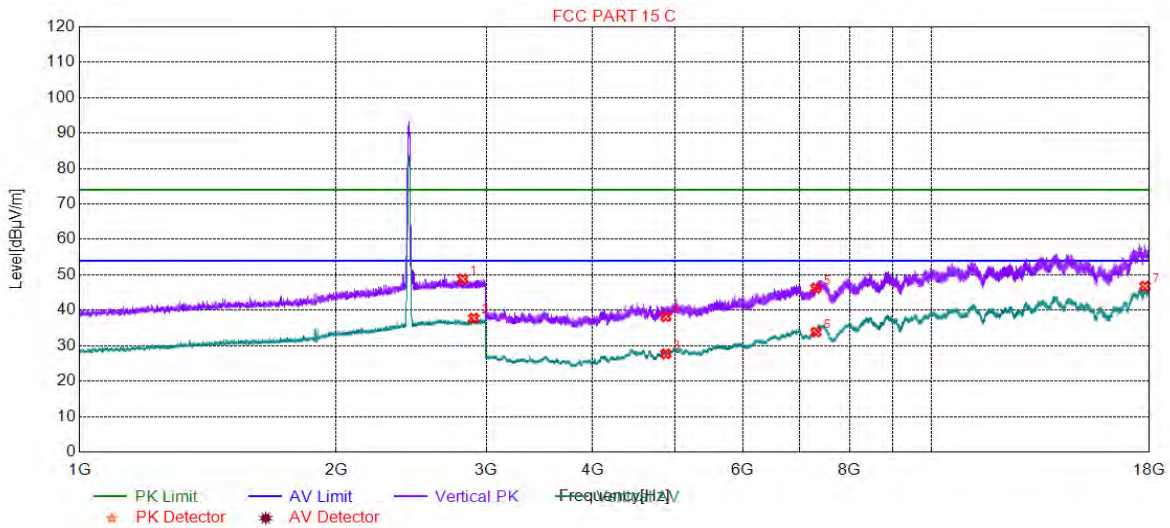


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**4.1.2.1.9 802.11G\_ Highest Channel\_ Vertical**

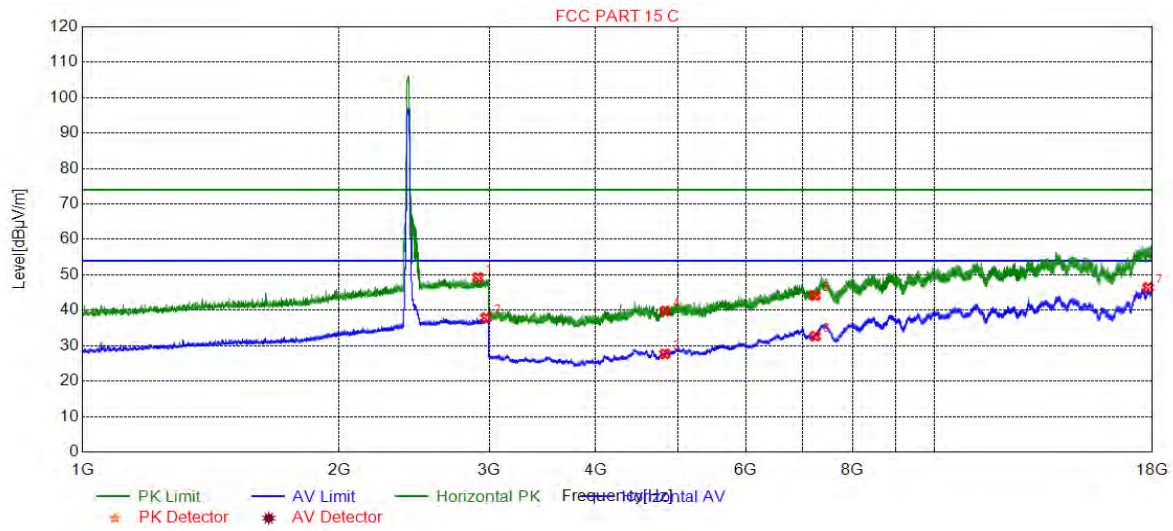


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2815.4539	48.81	2.16	74.00	25.19	150	206	Vertical
2	2900.9752	37.76	2.26	54.00	16.24	150	17	Vertical
3	4874.0000	27.72	-19.37	54.00	26.28	150	50	Vertical
4	4874.0000	38.20	-19.37	74.00	35.80	150	196	Vertical
5	7311.0000	46.23	-11.50	74.00	27.77	150	164	Vertical
6	7311.0000	33.86	-11.50	54.00	20.14	150	116	Vertical
7	17784.989	46.78	-0.80	54.00	7.22	150	54	Vertical



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**4.1.2.1.10 802.11G\_Lowest Channel\_Horizontal**



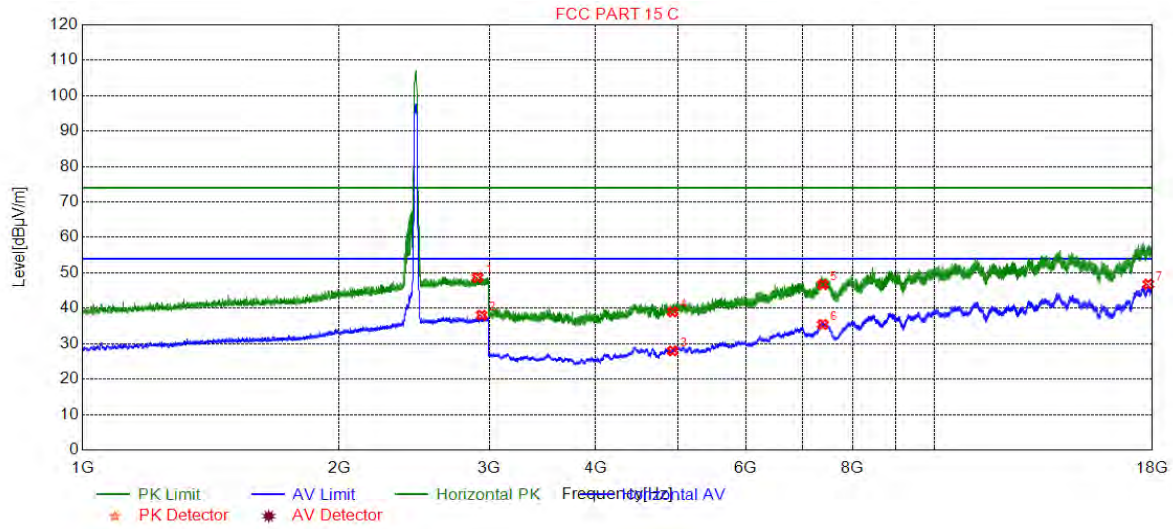
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2909.9775	49.26	2.27	74.00	24.74	150	167	Horizontal
2	2973.9935	37.89	2.31	54.00	16.11	150	17	Horizontal
3	4824.0000	27.67	-20.09	54.00	26.33	150	212	Horizontal
4	4824.0000	39.82	-20.09	74.00	34.18	150	326	Horizontal
5	7236.0000	44.14	-12.40	74.00	29.86	150	18	Horizontal
6	7236.0000	32.68	-12.40	54.00	21.32	150	293	Horizontal
7	17786.489	46.42	-0.80	54.00	7.58	150	198	Horizontal



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**4.1.2.1.11 802.11G\_ Middle Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2907.4769	48.70	2.27	74.00	25.30	150	128	Horizontal
2	2939.4849	38.04	2.29	54.00	15.96	150	192	Horizontal
3	4924.0000	27.98	-18.87	54.00	26.02	150	73	Horizontal
4	4924.0000	38.96	-18.87	74.00	35.04	150	320	Horizontal
5	7386.0000	46.71	-10.72	74.00	27.29	150	18	Horizontal
6	7386.0000	35.46	-10.72	54.00	18.54	150	270	Horizontal
7	17800.490	46.81	-0.77	54.00	7.19	150	314	Horizontal

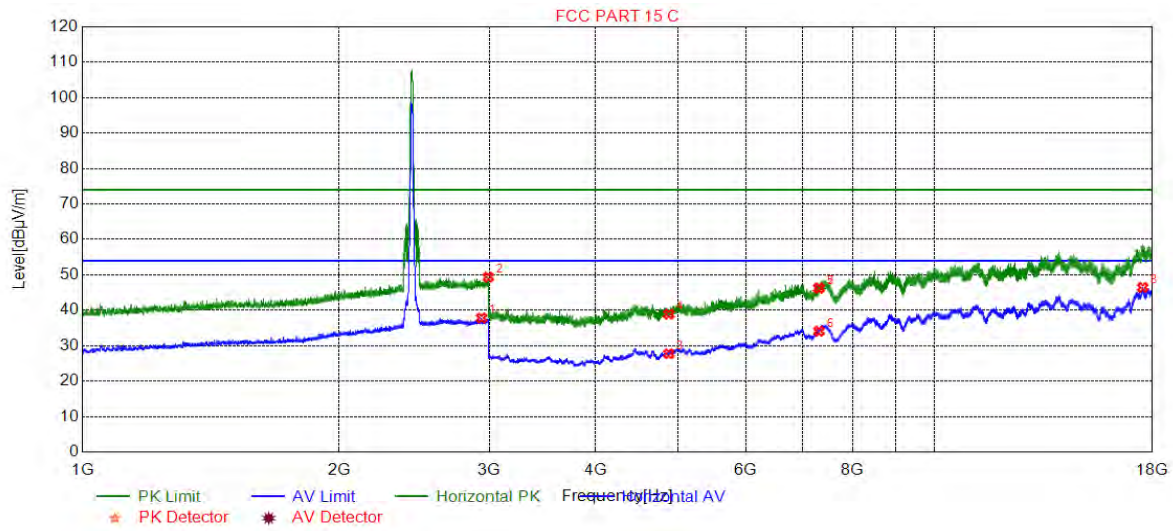


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**4.1.2.1.12 802.11G\_ Highest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.4846	37.82	2.29	54.00	16.18	150	183	Horizontal
2	2992.4981	49.37	2.32	74.00	24.63	150	175	Horizontal
3	4874.0000	27.75	-19.37	54.00	26.25	150	115	Horizontal
4	4874.0000	38.92	-19.37	74.00	35.08	150	293	Horizontal
5	7311.0000	46.25	-11.50	74.00	27.75	150	356	Horizontal
6	7311.0000	34.10	-11.50	54.00	19.90	150	360	Horizontal
7	7311.0000	46.25	-11.50	74.00	27.75	150	356	Horizontal
8	17531.476	46.45	0.75	54.00	7.55	150	197	Horizontal



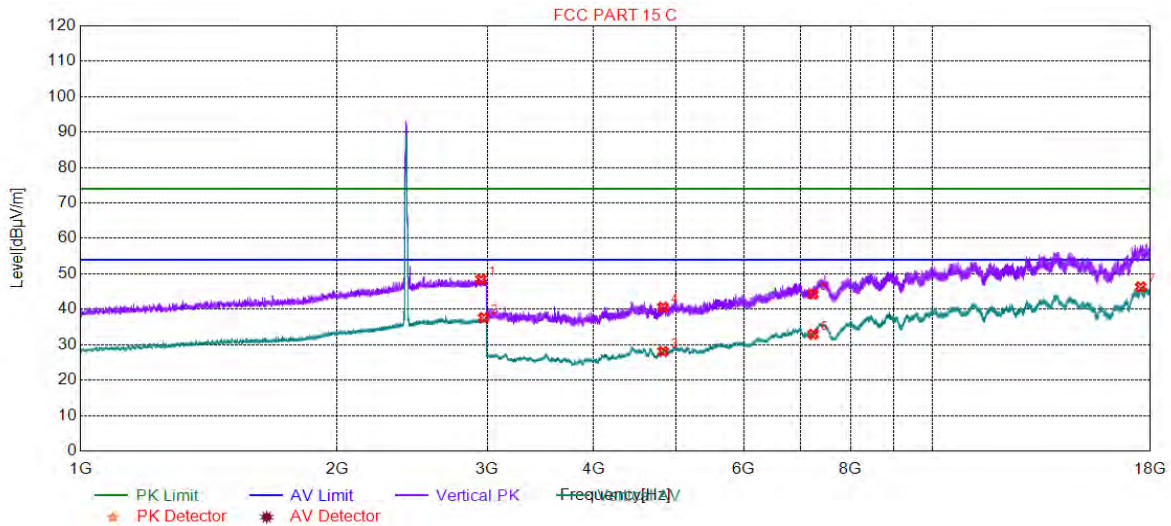
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**4.1.2.2 ANT2**

**4.1.2.2.1 802.11B\_Lowest Channel\_ Vertical**

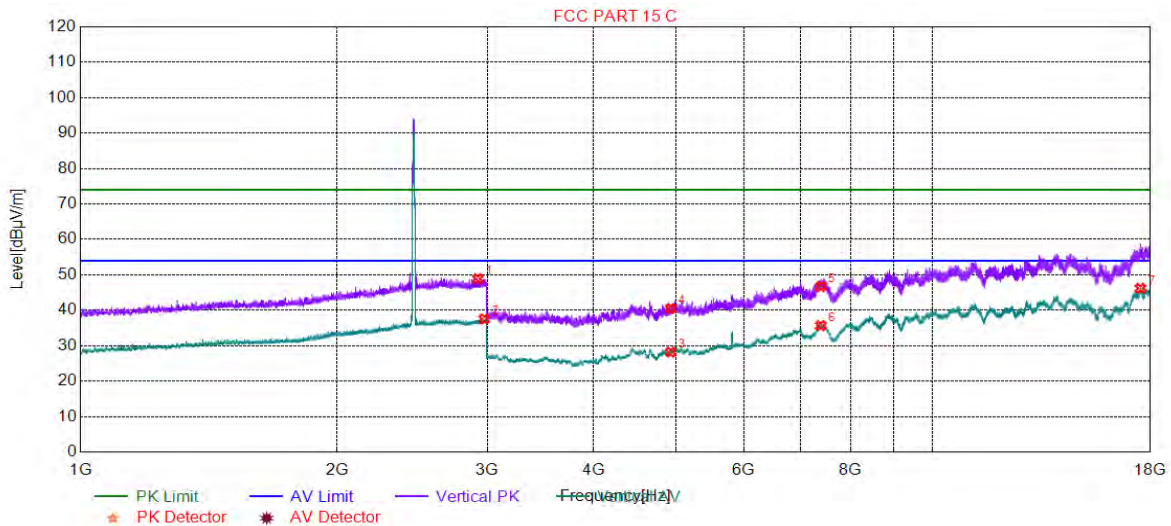


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.4876	48.44	2.30	74.00	25.56	150	35	Vertical
2	2971.9930	37.66	2.31	54.00	16.34	150	248	Vertical
3	4824.0000	28.11	-20.09	54.00	25.89	150	332	Vertical
4	4824.0000	40.60	-20.09	74.00	33.40	150	332	Vertical
5	7236.0000	44.25	-12.40	74.00	29.75	150	315	Vertical
6	7236.0000	32.97	-12.40	54.00	21.03	150	211	Vertical
7	17531.476	46.32	0.75	54.00	7.68	150	218	Vertical



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**4.1.2.2.2 802.11B\_ Middle Channel\_ Vertical**



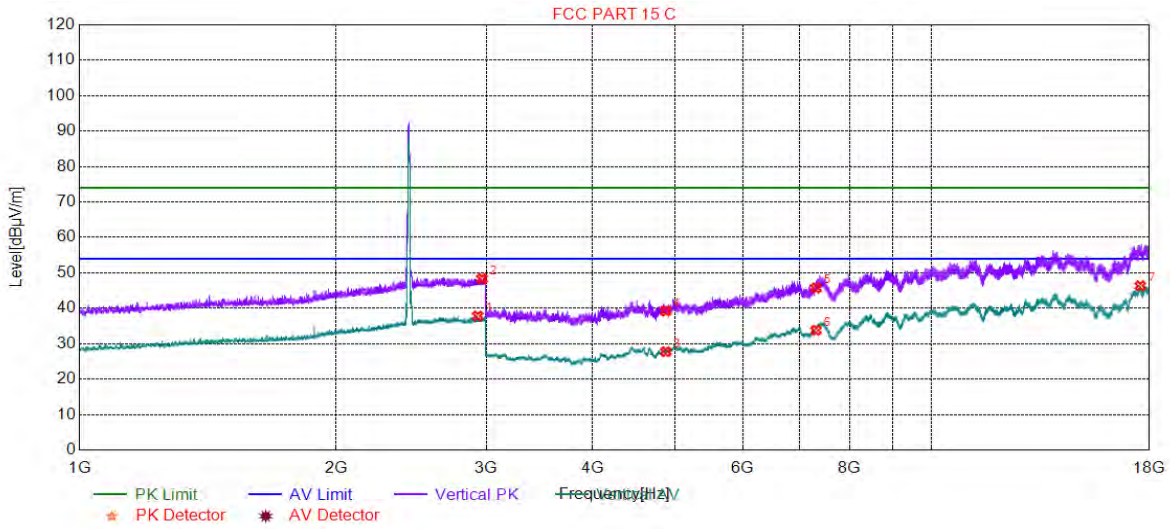
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2924.9812	48.89	2.28	74.00	25.11	150	202	Vertical
2	2975.9940	37.54	2.31	54.00	16.46	150	217	Vertical
3	4924.0000	28.18	-18.87	54.00	25.82	150	224	Vertical
4	4924.0000	40.51	-18.87	74.00	33.49	150	241	Vertical
5	7386.0000	46.70	-10.72	74.00	27.30	150	73	Vertical
6	7386.0000	35.67	-10.72	54.00	18.33	150	355	Vertical
7	17517.975	46.18	0.58	54.00	7.82	150	2	Vertical



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**4.1.2.2.3 802.11B\_ Highest Channel\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2931.9830	37.82	2.28	54.00	16.18	150	25	Vertical
2	2965.9915	48.35	2.31	74.00	25.65	150	25	Vertical
3	4874.0000	27.76	-19.37	54.00	26.24	150	359	Vertical
4	4874.0000	39.23	-19.37	74.00	34.77	150	121	Vertical
5	7311.0000	45.73	-11.50	74.00	28.27	150	333	Vertical
6	7311.0000	33.78	-11.50	54.00	20.22	150	72	Vertical
7	17558.477	46.33	1.10	54.00	7.67	150	342	Vertical

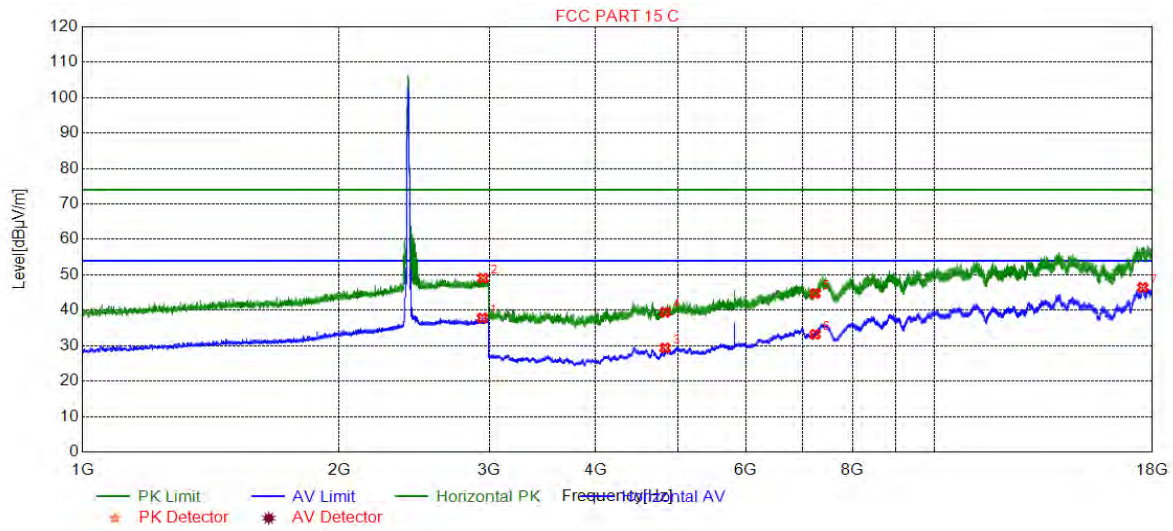


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**4.1.2.2.4 802.11B\_Lowest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.9862	37.80	2.29	54.00	16.20	150	25	Horizontal
2	2950.4876	49.06	2.30	74.00	24.94	150	245	Horizontal
3	4824.0000	29.37	-20.09	54.00	24.63	150	55	Horizontal
4	4824.0000	39.46	-20.09	74.00	34.54	150	359	Horizontal
5	7236.0000	44.73	-12.40	74.00	29.27	150	240	Horizontal
6	7236.0000	33.20	-12.40	54.00	20.80	150	359	Horizontal
7	17534.476	46.46	0.79	54.00	7.54	150	189	Horizontal

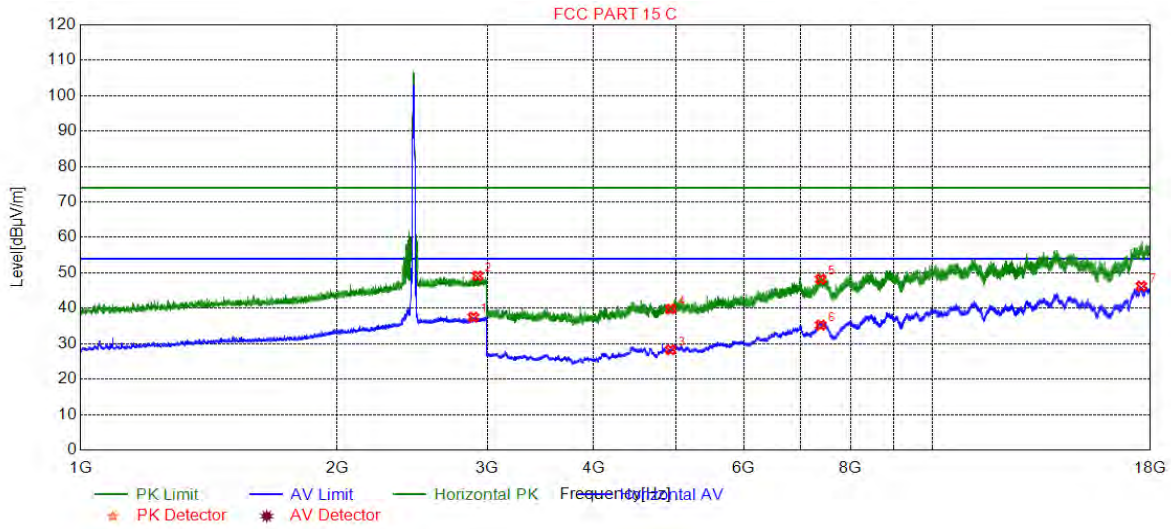


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**4.1.2.2.5 802.11B\_ Middle Channel\_ Horizontal**



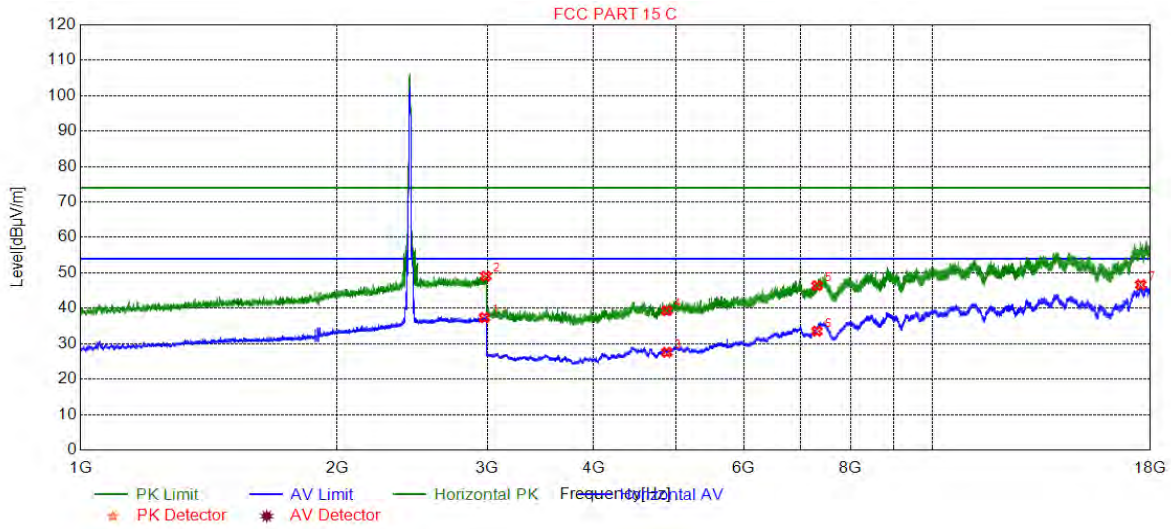
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2889.9725	37.49	2.25	54.00	16.51	150	356	Horizontal
2	2922.9807	49.13	2.28	74.00	24.87	150	33	Horizontal
3	4924.0000	28.29	-18.87	54.00	25.71	150	148	Horizontal
4	4924.0000	39.79	-18.87	74.00	34.21	150	295	Horizontal
5	7386.0000	48.21	-10.72	74.00	25.79	150	181	Horizontal
6	7386.0000	35.24	-10.72	54.00	18.76	150	357	Horizontal
7	17557.477	46.24	1.09	54.00	7.76	150	199	Horizontal



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**4.1.2.2.6 802.11B\_ Highest Channel\_ Horizontal**



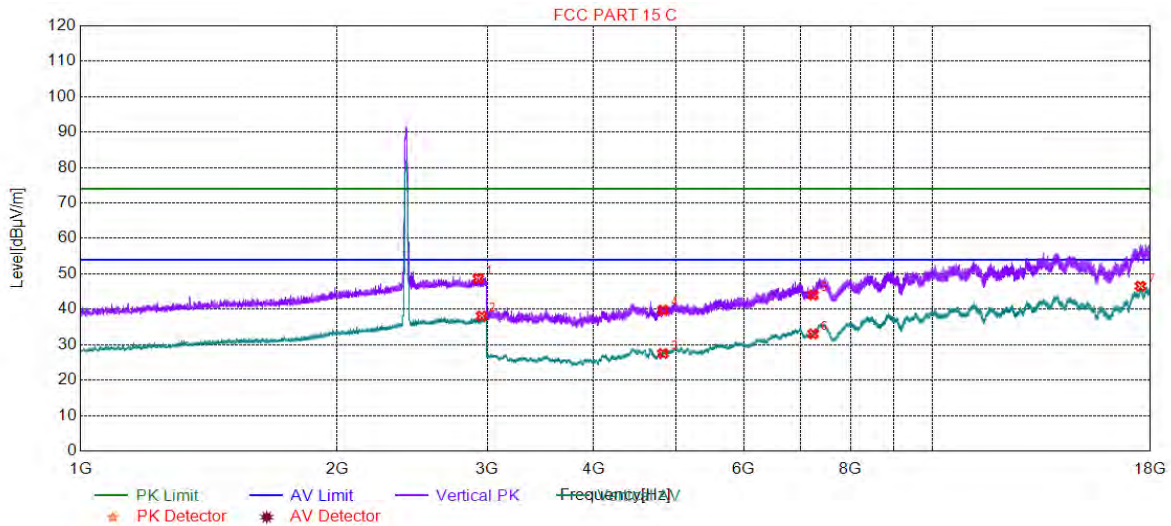
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2976.9942	37.38	2.31	54.00	16.62	150	129	Horizontal
2	2989.4974	49.04	2.32	74.00	24.96	150	98	Horizontal
3	4874.0000	27.58	-19.37	54.00	26.42	150	244	Horizontal
4	4874.0000	39.32	-19.37	74.00	34.68	150	360	Horizontal
5	7311.0000	46.37	-11.50	74.00	27.63	150	228	Horizontal
6	7311.0000	33.53	-11.50	54.00	20.47	150	341	Horizontal
7	17531.976	46.62	0.76	54.00	7.38	150	255	Horizontal



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### 4.1.2.2.7 802.11G\_Lowest Channel\_Vertical



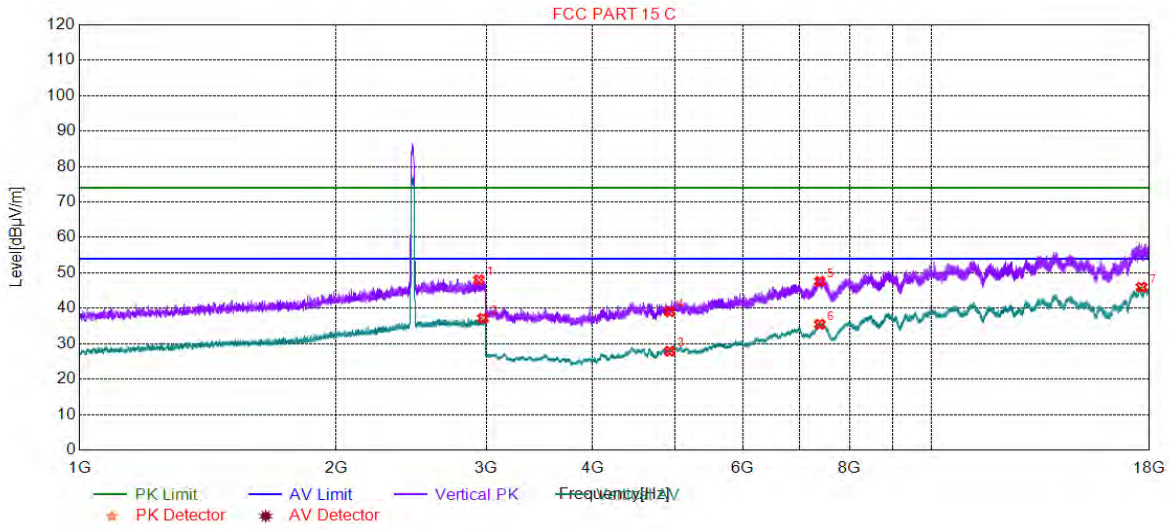
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.4819	48.71	2.28	74.00	25.29	150	115	Vertical
2	2954.9887	38.09	2.30	54.00	15.91	150	21	Vertical
3	4824.0000	27.50	-20.09	54.00	26.50	150	310	Vertical
4	4824.0000	39.75	-20.09	74.00	34.25	150	196	Vertical
5	7236.0000	44.01	-12.40	74.00	29.99	150	212	Vertical
6	7236.0000	33.06	-12.40	54.00	20.94	150	360	Vertical
7	17519.476	46.51	0.60	54.00	7.49	150	56	Vertical



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**4.1.2.2.8 802.11G\_Middle Channel\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2940.4851	48.01	2.29	74.00	25.99	150	360	Vertical
2	2974.4936	37.18	2.31	54.00	16.82	150	360	Vertical
3	4924.0000	27.87	-18.87	54.00	26.13	150	115	Vertical
4	4924.0000	39.03	-18.87	74.00	34.97	150	278	Vertical
5	7386.0000	47.60	-10.72	74.00	26.40	150	131	Vertical
6	7386.0000	35.48	-10.72	54.00	18.52	150	131	Vertical
7	17620.481	45.96	1.10	54.00	8.04	150	199	Vertical

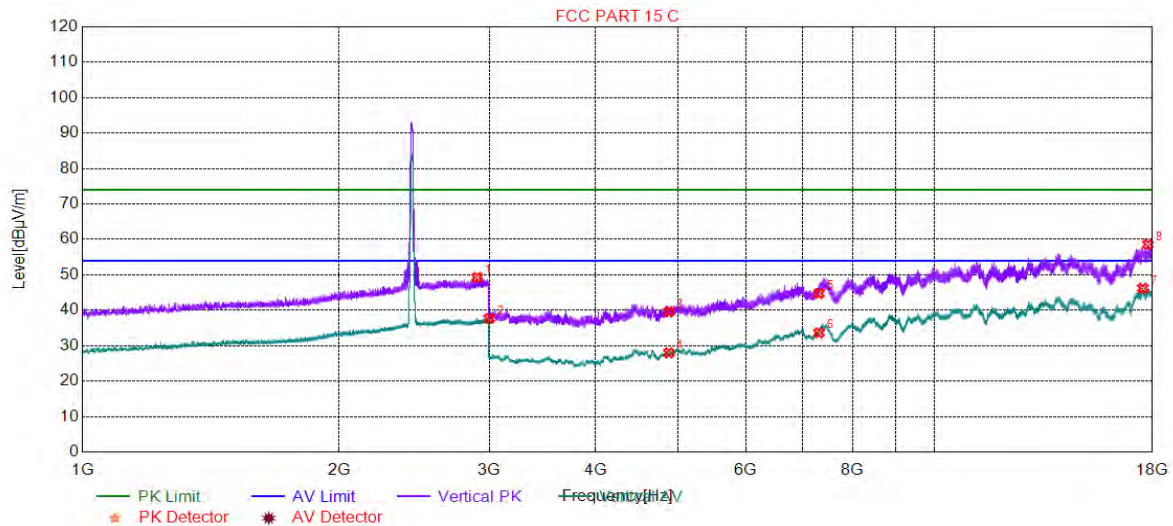


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**4.1.2.2.9 802.11G\_ Highest Channel\_ Vertical**



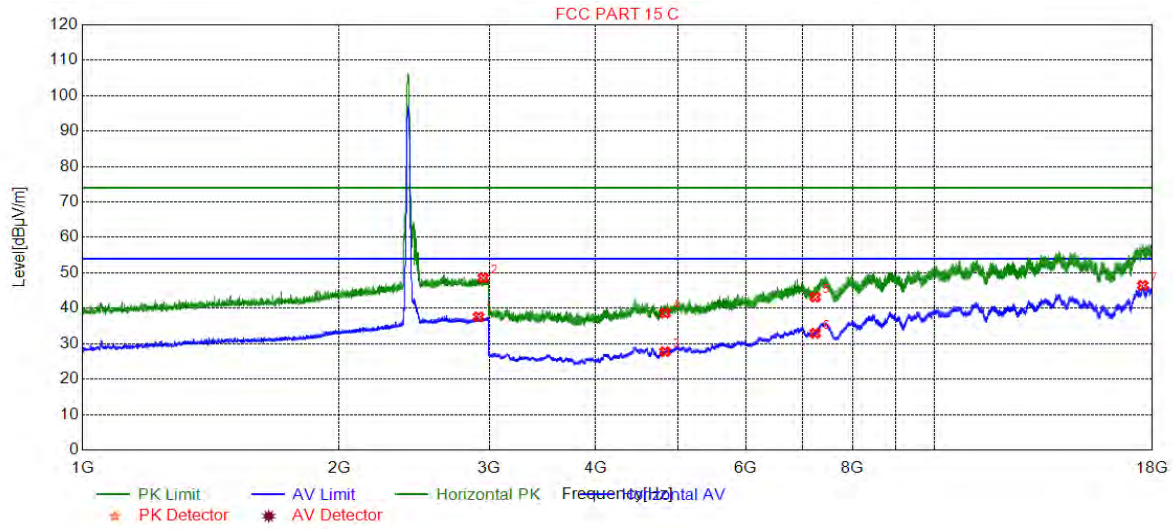
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2903.4759	49.27	2.26	74.00	24.73	150	284	Vertical
2	3000.0000	37.70	2.33	54.00	16.30	150	206	Vertical
3	4874.0000	39.57	-19.37	74.00	34.43	150	360	Vertical
4	4874.0000	27.98	-19.37	54.00	26.02	150	148	Vertical
5	7311.0000	44.74	-11.50	74.00	29.26	150	245	Vertical
6	7311.0000	33.66	-11.50	54.00	20.34	150	245	Vertical
7	17536.976	46.21	0.82	54.00	7.79	150	342	Vertical
8	17782.989	58.58	-0.80	74.00	15.42	150	26	Vertical



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**4.1.2.2.10 802.11G\_Lowest Channel\_Horizontal**



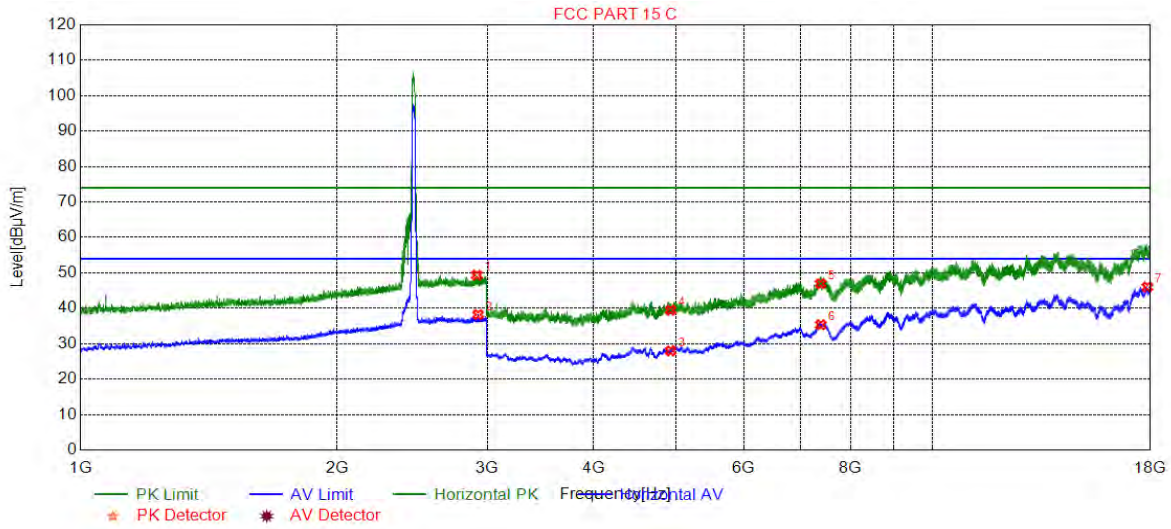
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2914.4786	37.60	2.27	54.00	16.40	150	128	Horizontal
2	2951.4879	48.57	2.30	74.00	25.43	150	230	Horizontal
3	4824.0000	27.75	-20.09	54.00	26.25	150	73	Horizontal
4	4824.0000	38.63	-20.09	74.00	35.37	150	353	Horizontal
5	7236.0000	43.16	-12.40	74.00	30.84	150	56	Horizontal
6	7236.0000	32.96	-12.40	54.00	21.04	150	93	Horizontal
7	17534.976	46.47	0.80	54.00	7.53	150	256	Horizontal



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**4.1.2.2.11 802.11G\_ Middle Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2917.4794	49.37	2.27	74.00	24.63	150	104	Horizontal
2	2927.4819	38.23	2.28	54.00	15.77	150	198	Horizontal
3	4924.0000	27.98	-18.87	54.00	26.02	150	85	Horizontal
4	4924.0000	39.47	-18.87	74.00	34.53	150	328	Horizontal
5	7386.0000	46.95	-10.72	74.00	27.05	150	280	Horizontal
6	7386.0000	35.35	-10.72	54.00	18.65	150	118	Horizontal
7	17849.492	46.01	-0.94	54.00	7.99	150	313	Horizontal

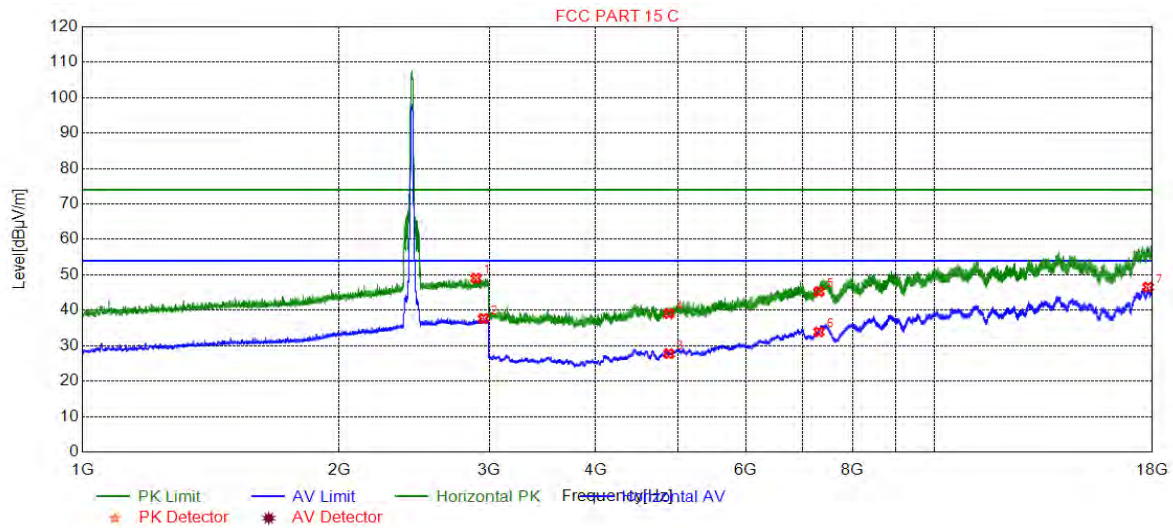


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**4.1.2.2.12 802.11G\_ Highest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2894.9737	49.03	2.25	74.00	24.97	150	170	Horizontal
2	2954.4886	37.69	2.30	54.00	16.31	150	61	Horizontal
3	4874.0000	27.74	-19.37	54.00	26.26	150	104	Horizontal
4	4874.0000	39.07	-19.37	74.00	34.93	150	56	Horizontal
5	7311.0000	45.28	-11.50	74.00	28.72	150	226	Horizontal
6	7311.0000	33.91	-11.50	54.00	20.09	150	120	Horizontal
7	17788.489	46.53	-0.79	54.00	7.47	150	199	Horizontal



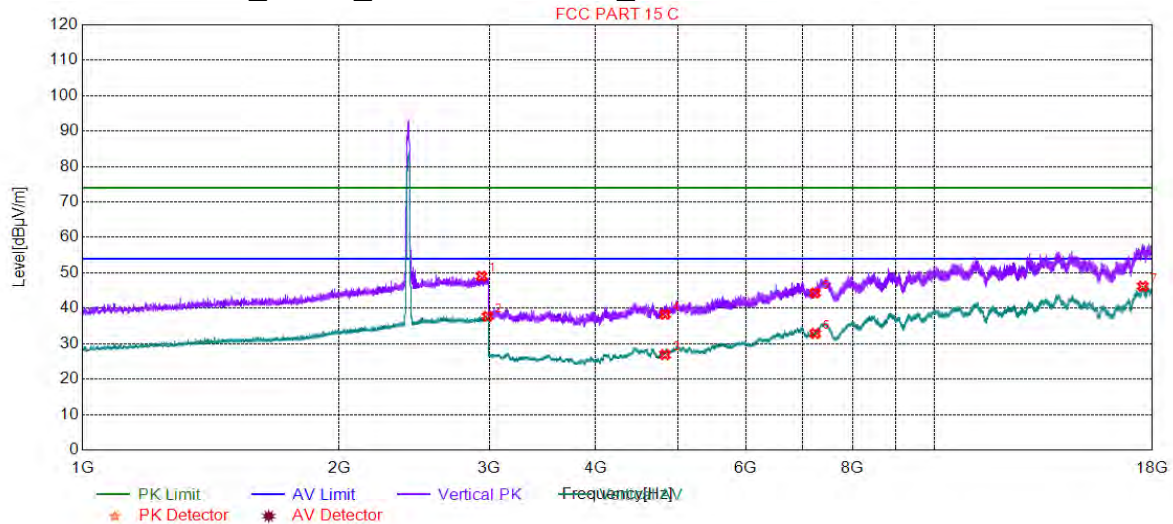
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**4.1.2.3 MIMO**

**4.1.2.3.1 802.11N20\_MIMO\_Lowest Channel\_Vertical**



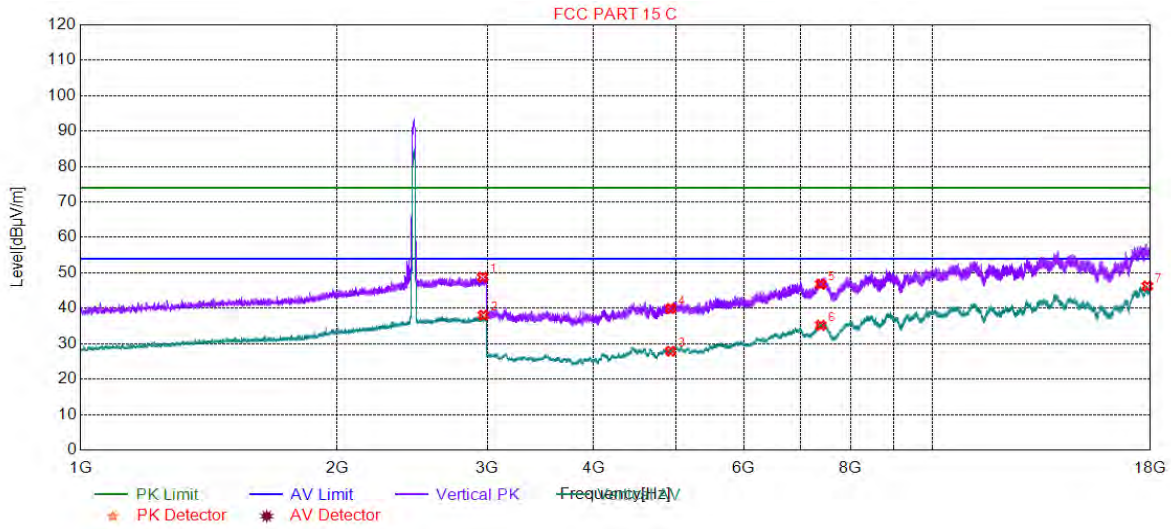
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.9847	49.05	2.29	74.00	24.95	150	226	Vertical
2	2986.4966	37.72	2.32	54.00	16.28	150	96	Vertical
3	4824.0000	26.91	-20.09	54.00	27.09	150	157	Vertical
4	4824.0000	38.28	-20.09	74.00	35.72	150	350	Vertical
5	7236.0000	44.33	-12.40	74.00	29.67	150	269	Vertical
6	7236.0000	32.89	-12.40	54.00	21.11	150	92	Vertical
7	17534.976	46.19	0.80	54.00	7.81	150	285	Vertical



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**4.1.2.3.2 802.11N20\_MIMO\_Middle Channel\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2963.4909	48.77	2.30	74.00	25.23	150	136	Vertical
2	2969.4924	38.04	2.31	54.00	15.96	150	96	Vertical
3	4924.0000	27.89	-18.87	54.00	26.11	150	116	Vertical
4	4924.0000	39.93	-18.87	74.00	34.07	150	294	Vertical
5	7386.0000	46.79	-10.72	74.00	27.21	150	326	Vertical
6	7386.0000	35.18	-10.72	54.00	18.82	150	213	Vertical
7	17845.492	46.26	-0.92	54.00	7.74	150	198	Vertical



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