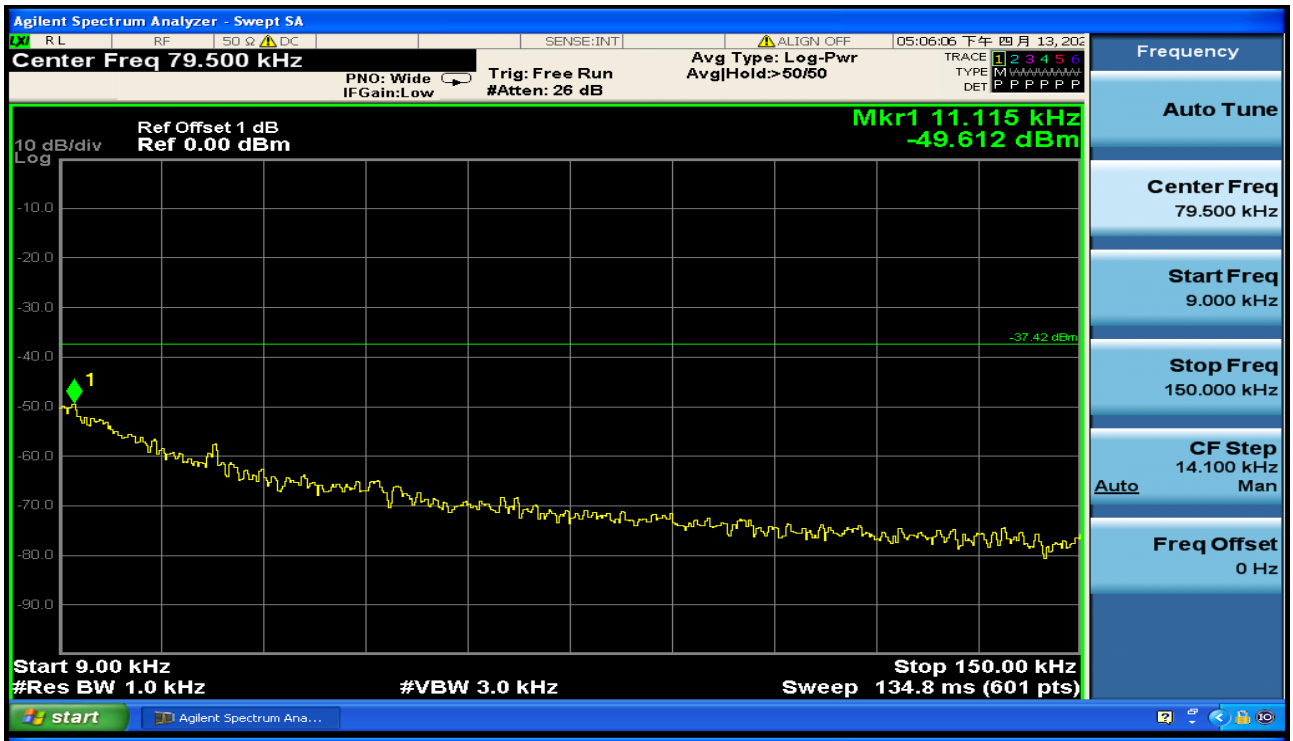

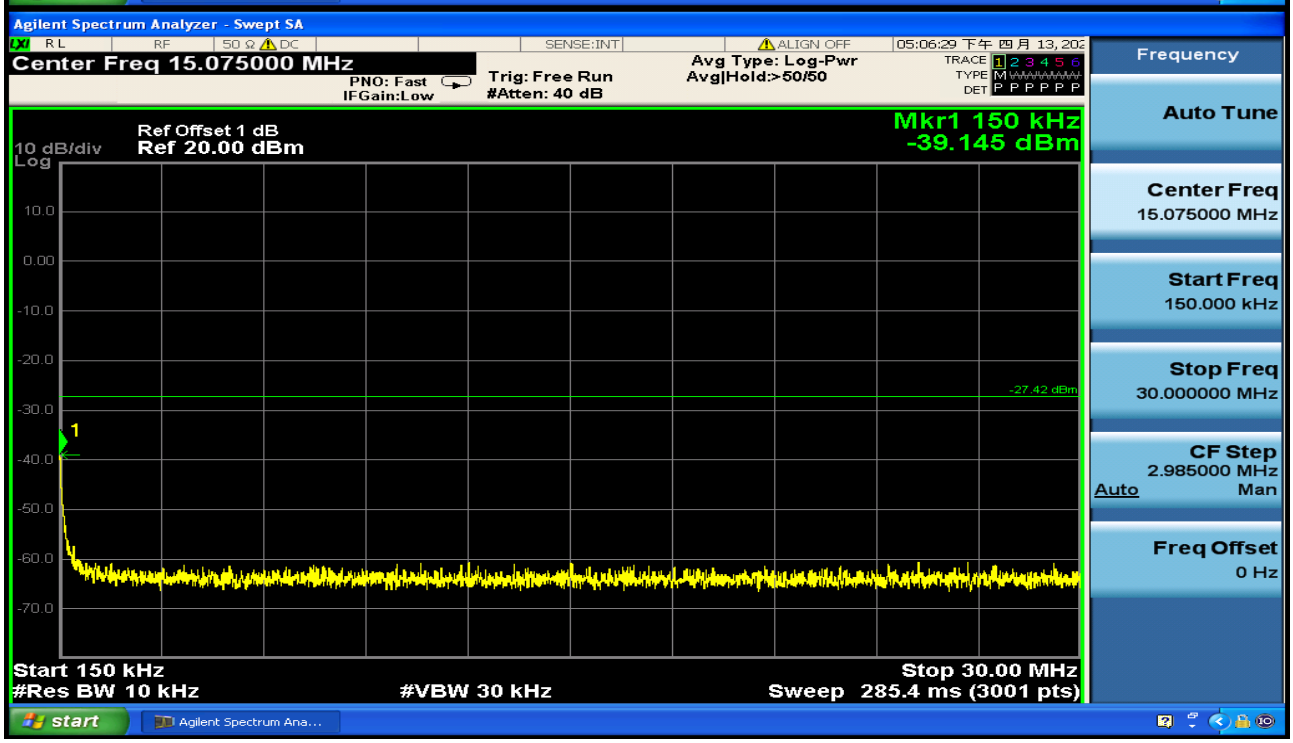

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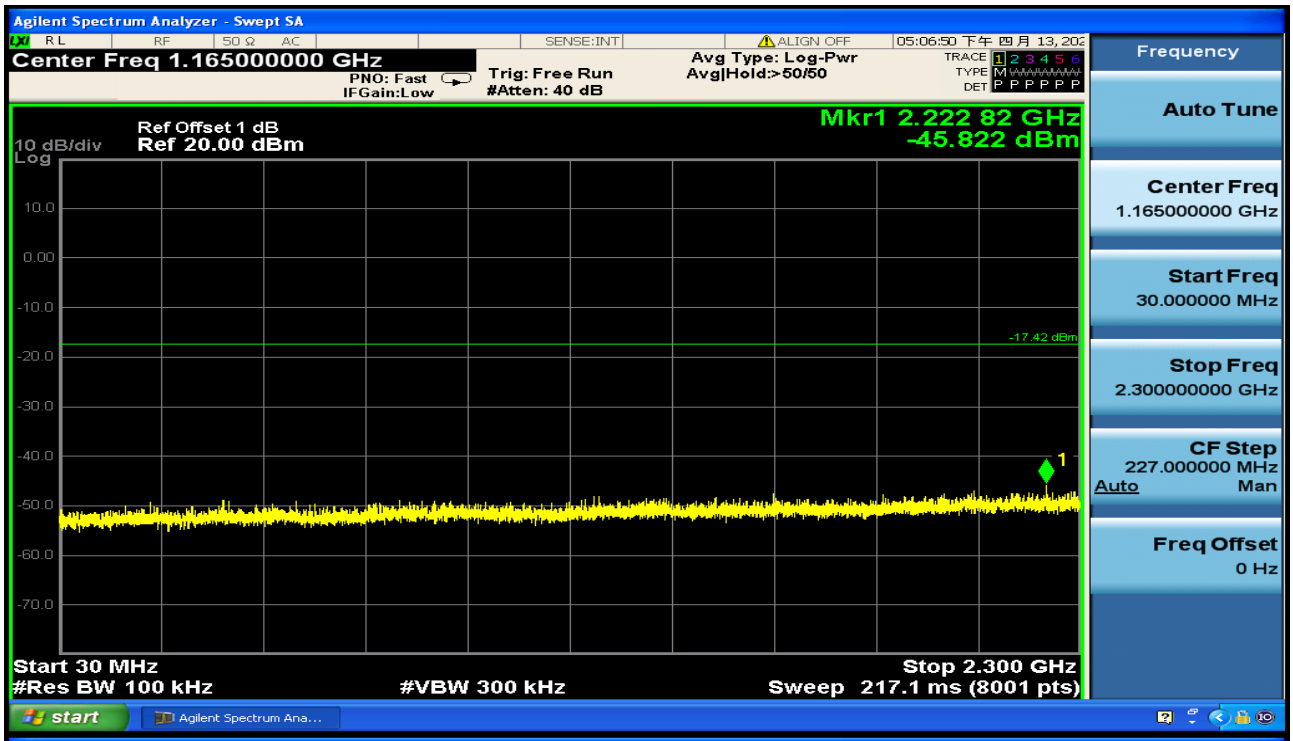

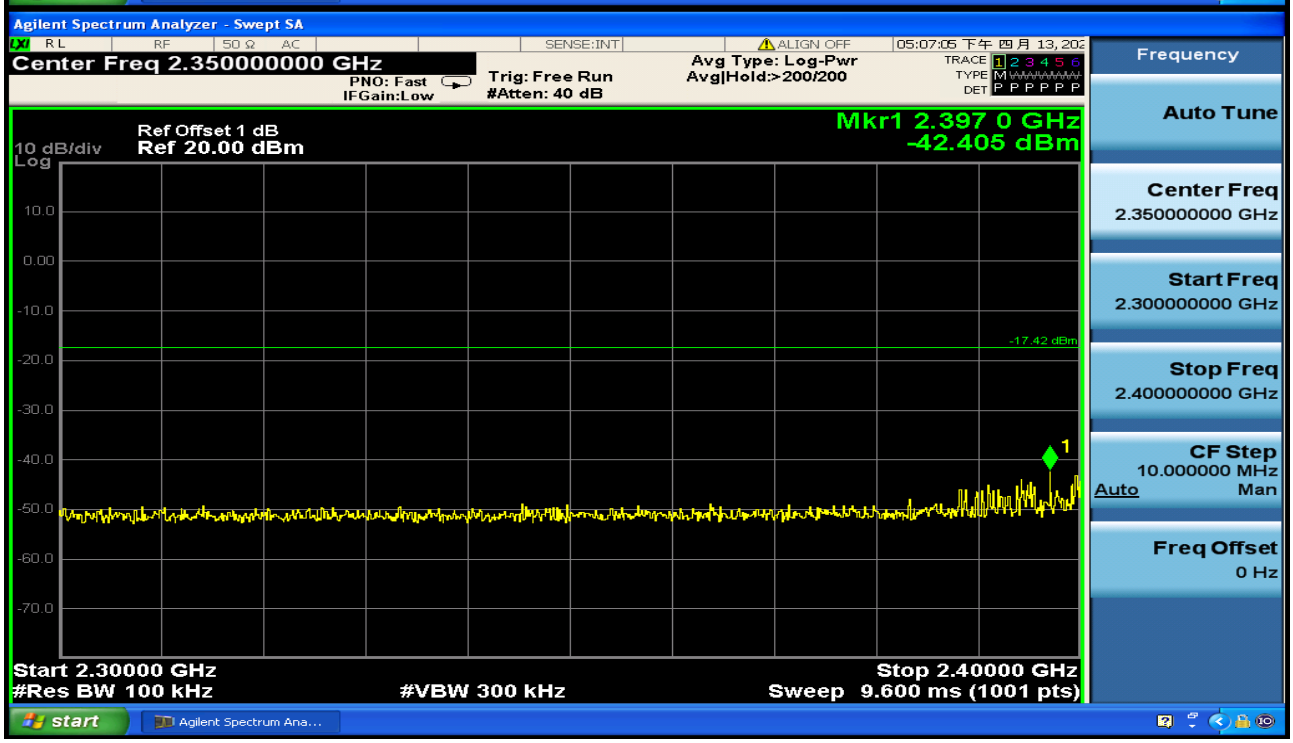

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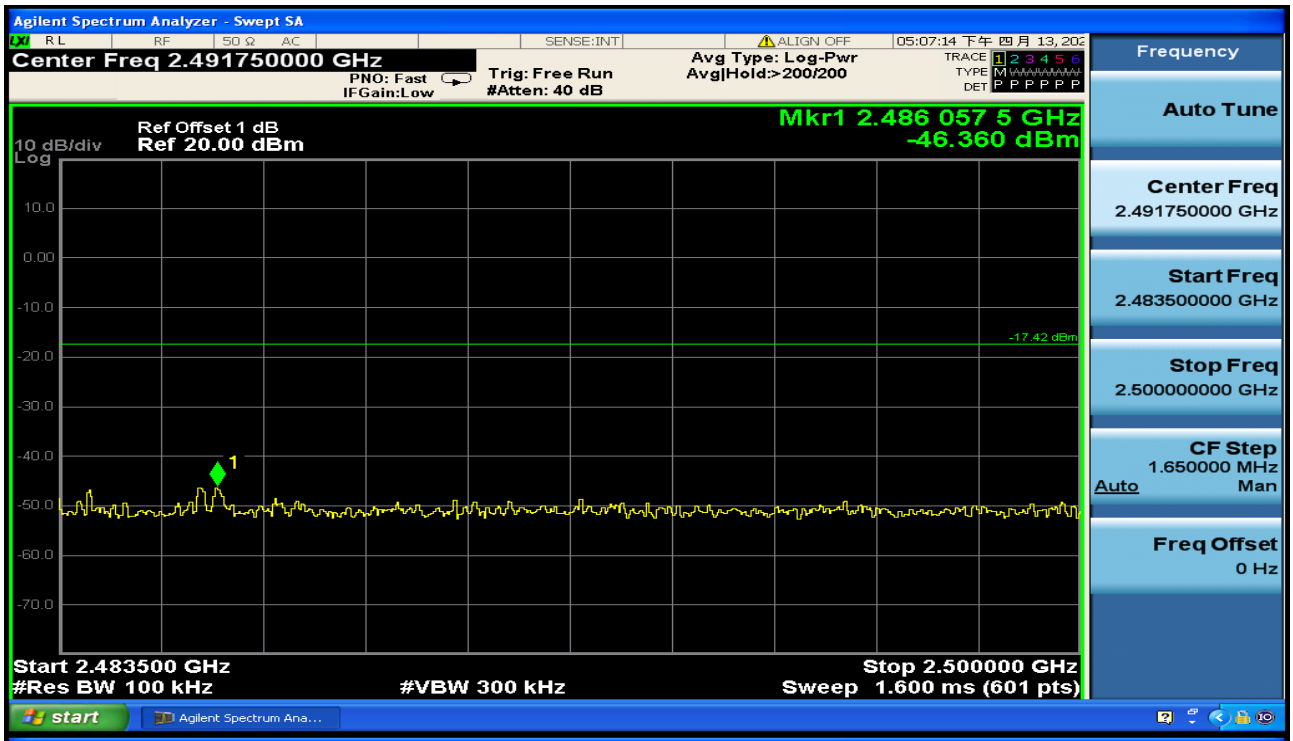

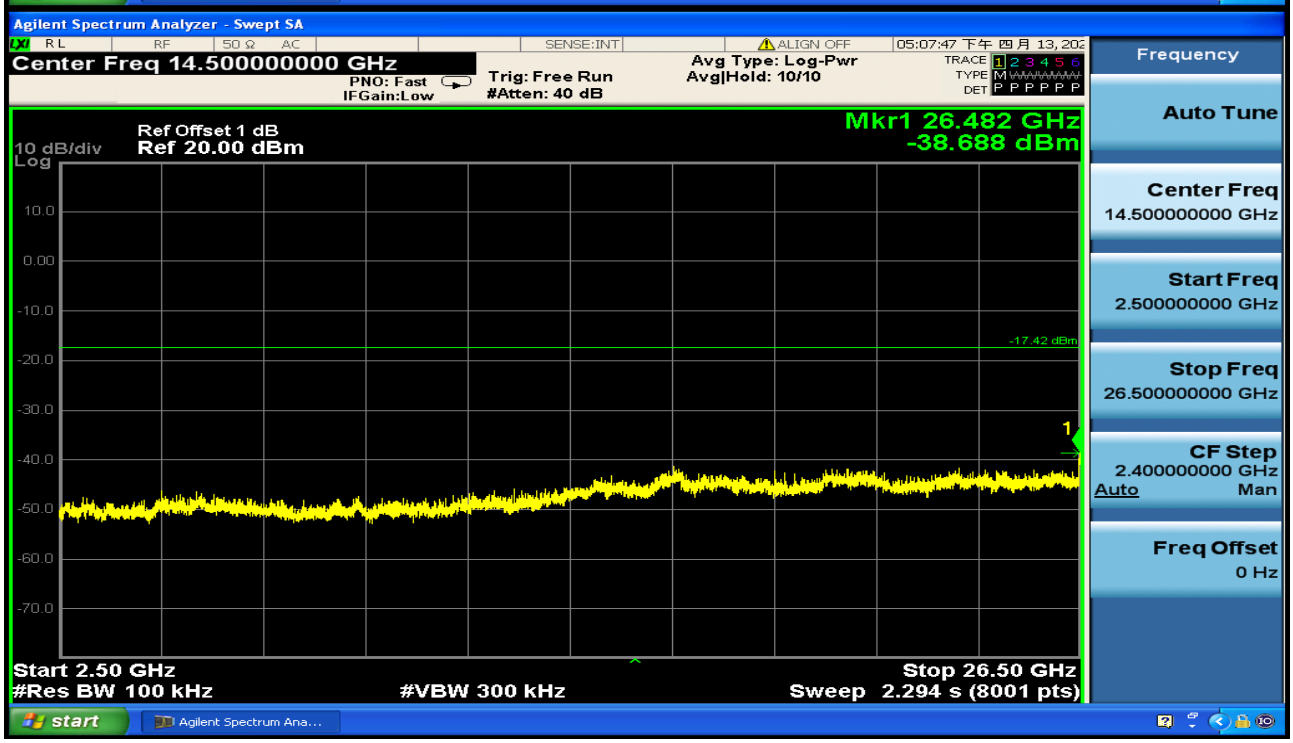

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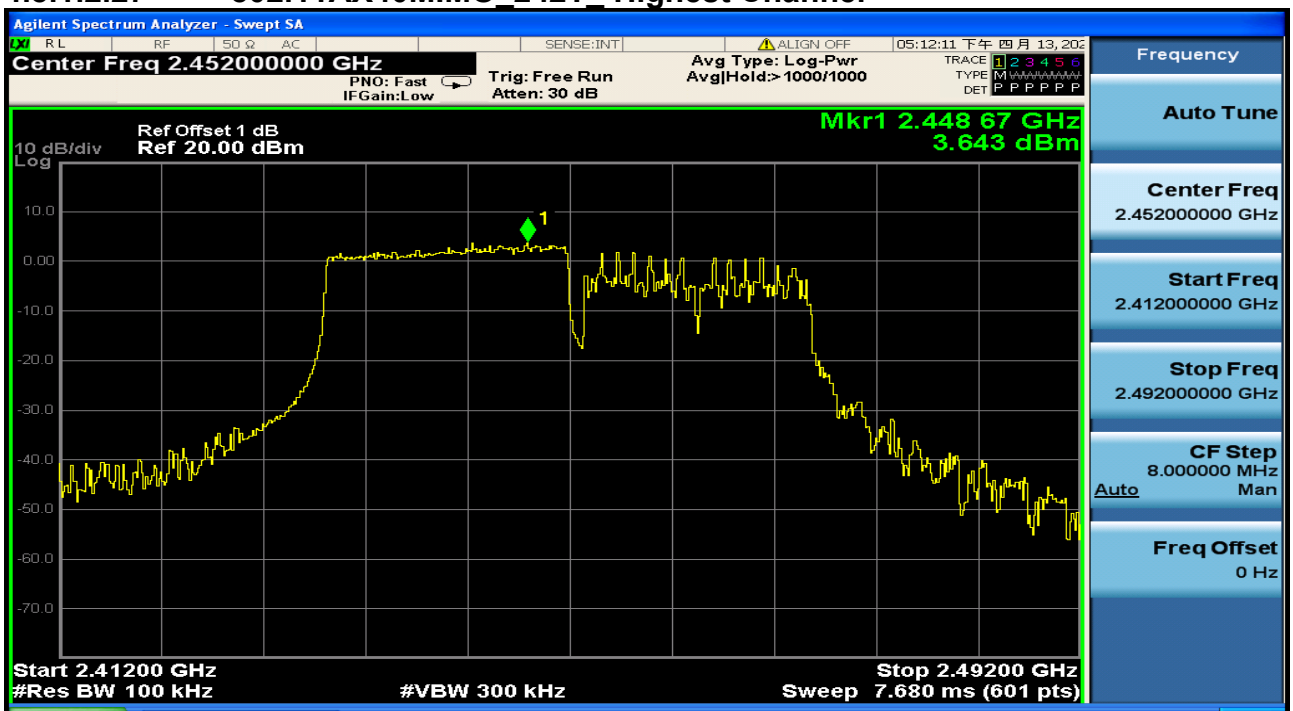
4.8.1.2.27 802.11AX40MIMO_242T_ Highest Channel



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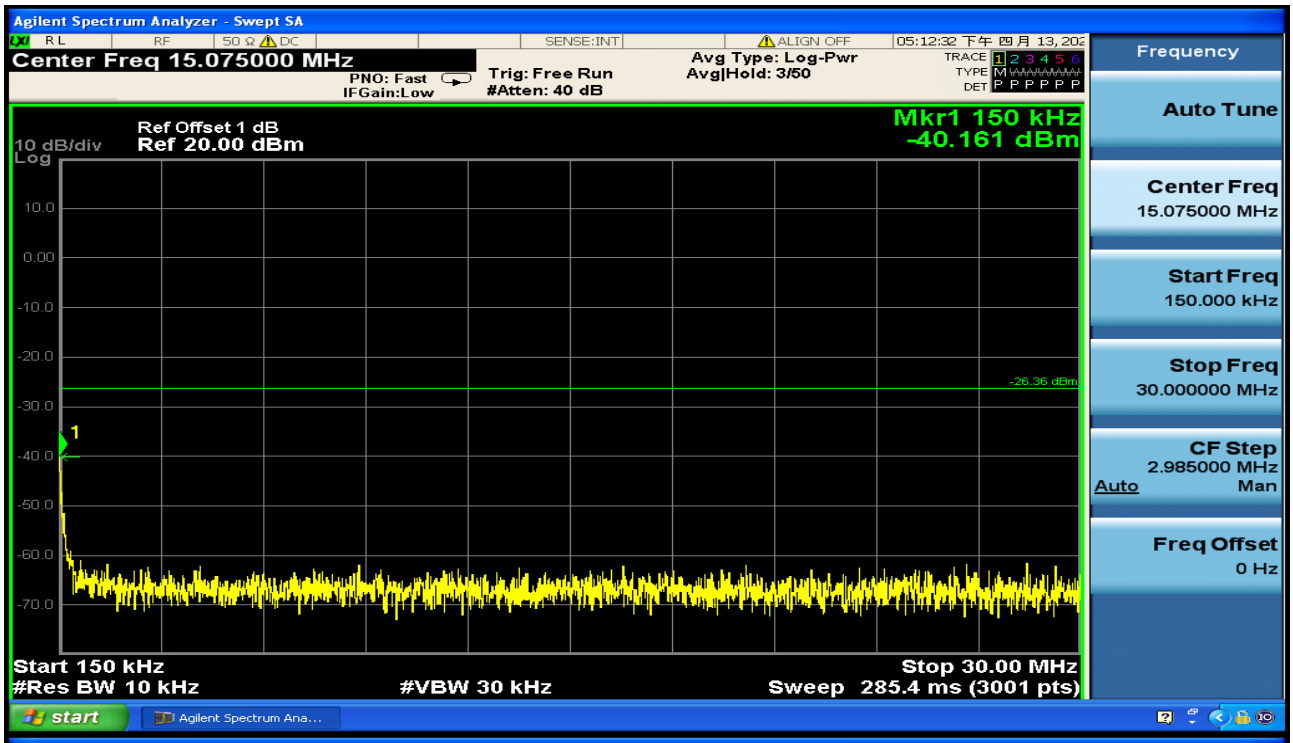

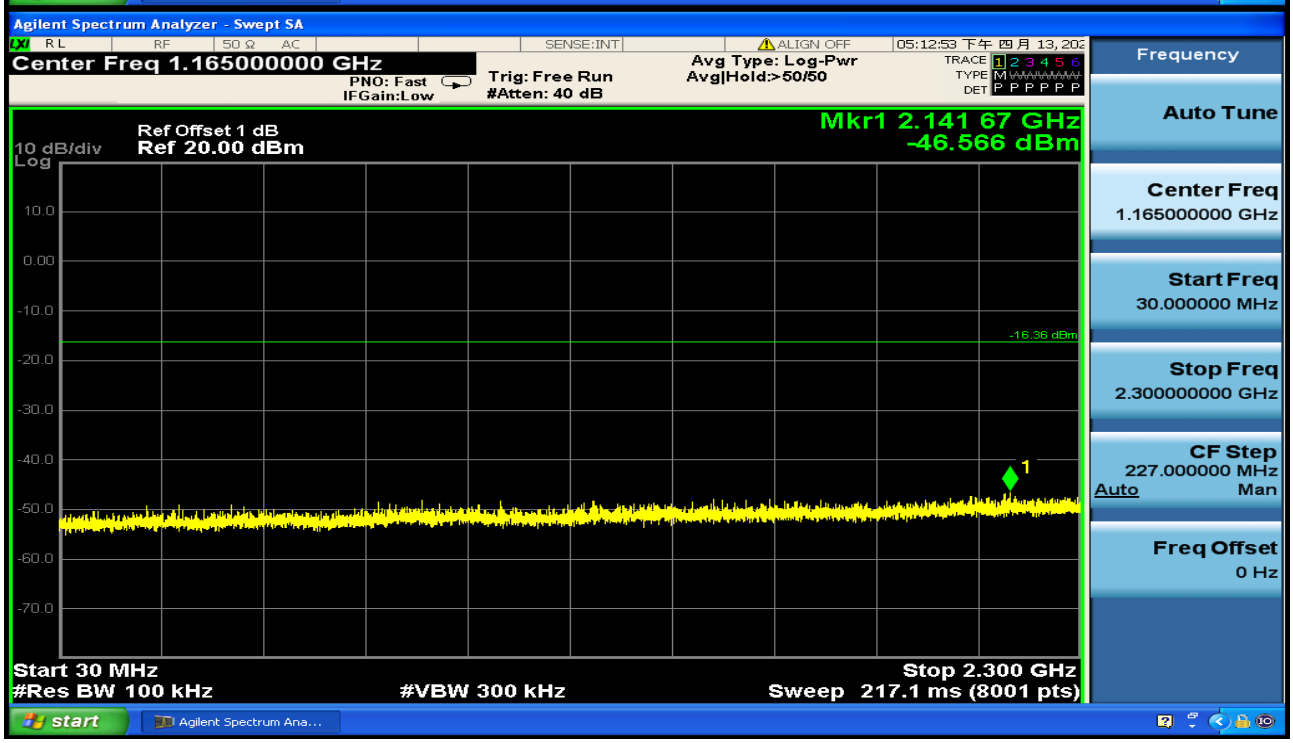

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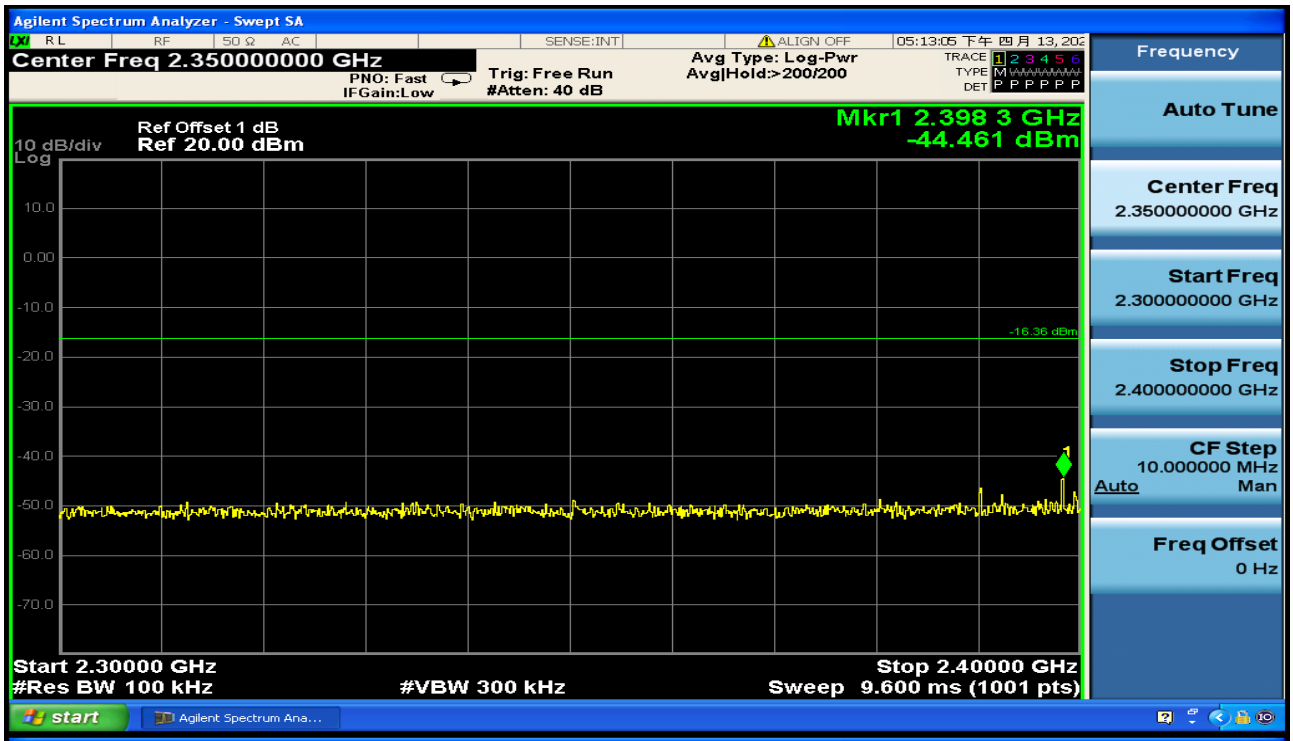

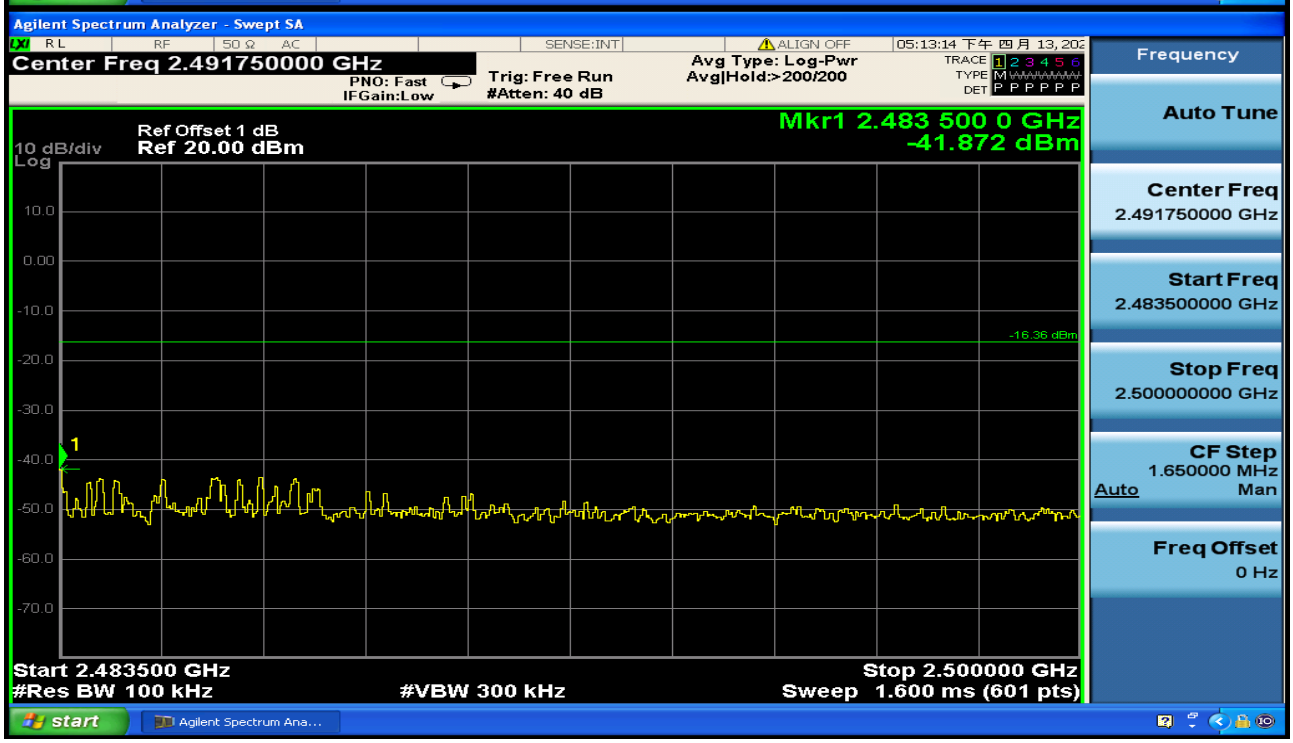

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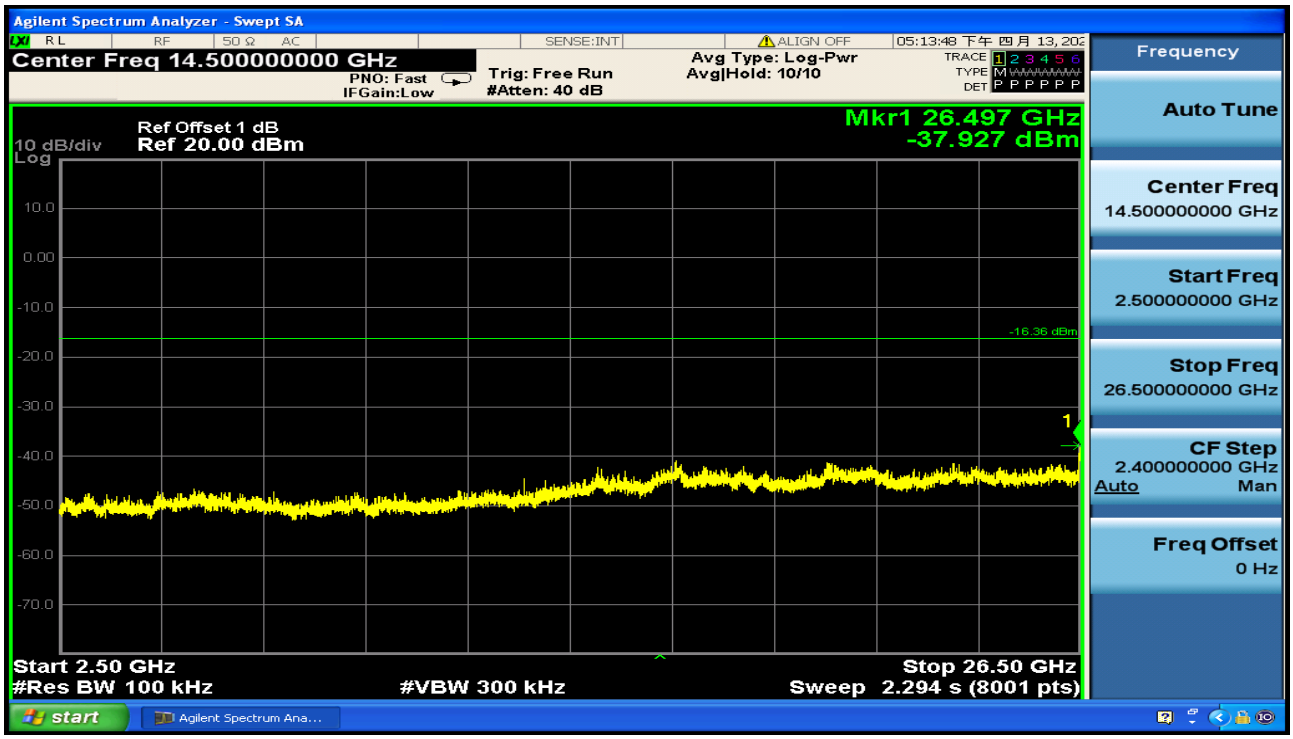
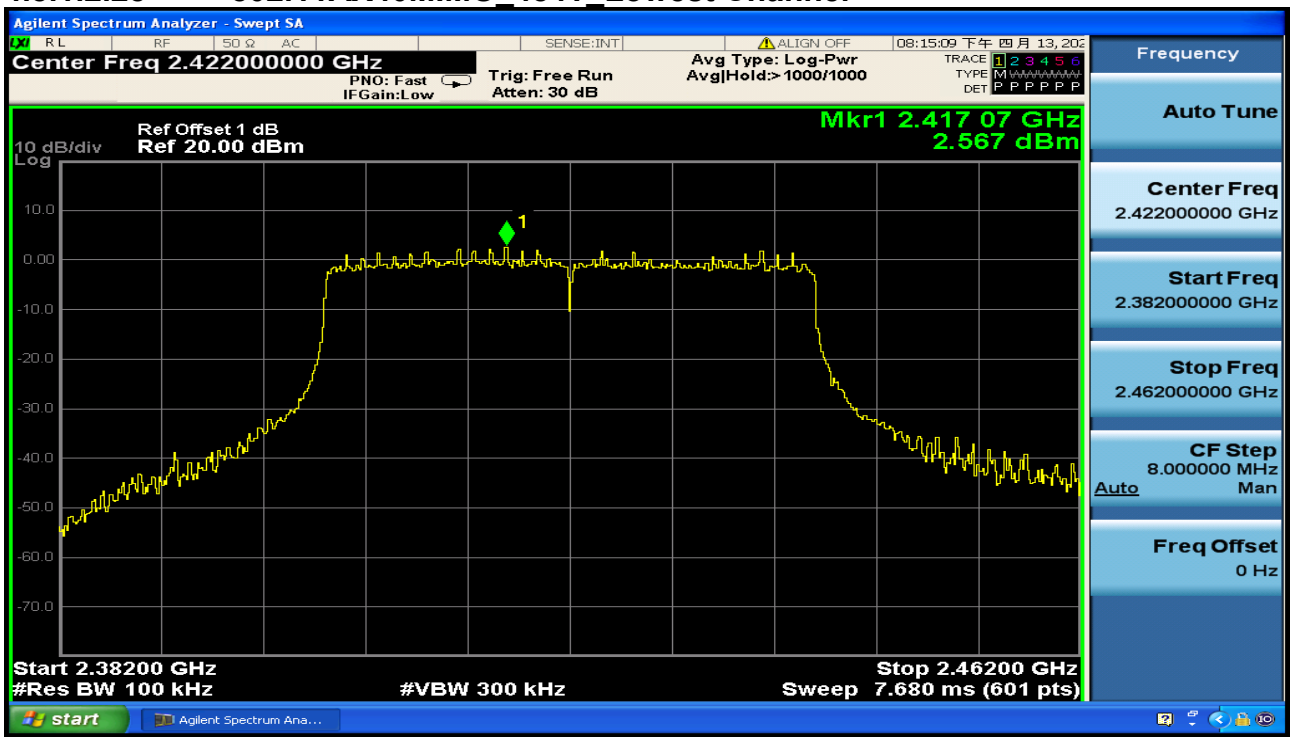


4.8.1.2.28 802.11AX40MIMO_484T_Lowest Channel



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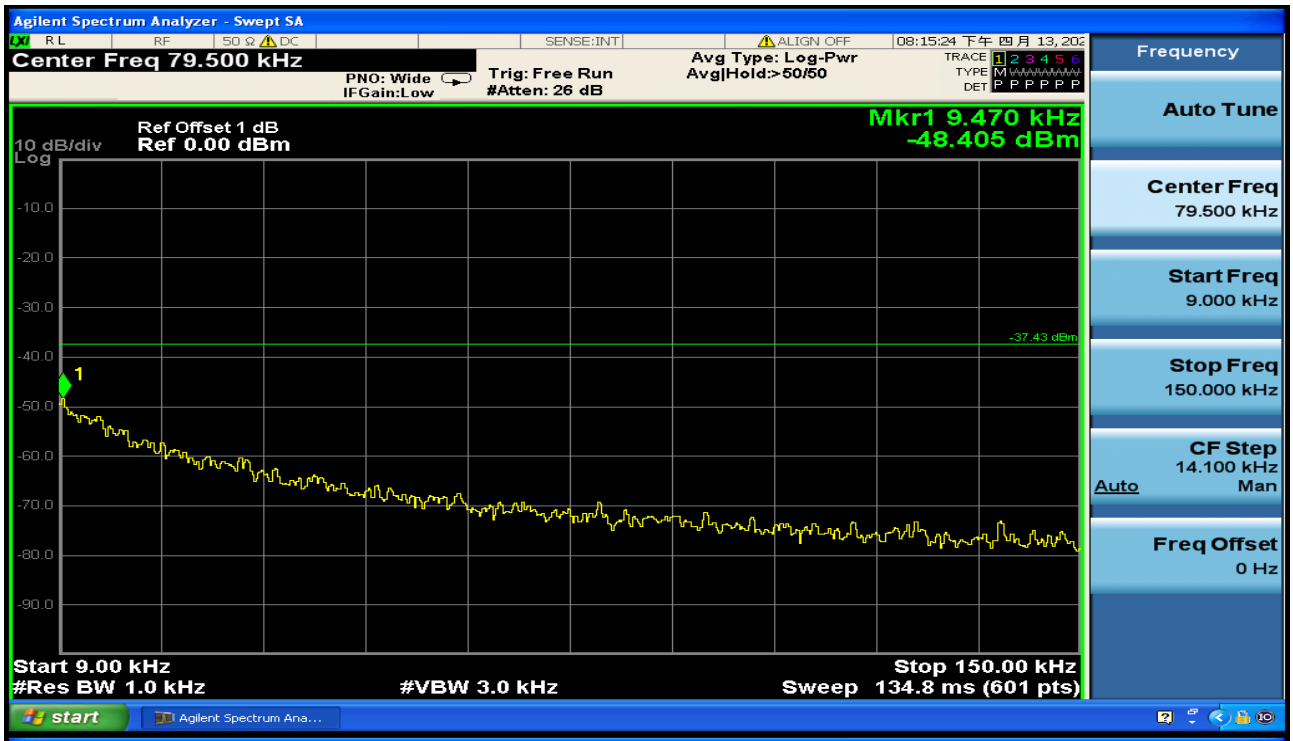

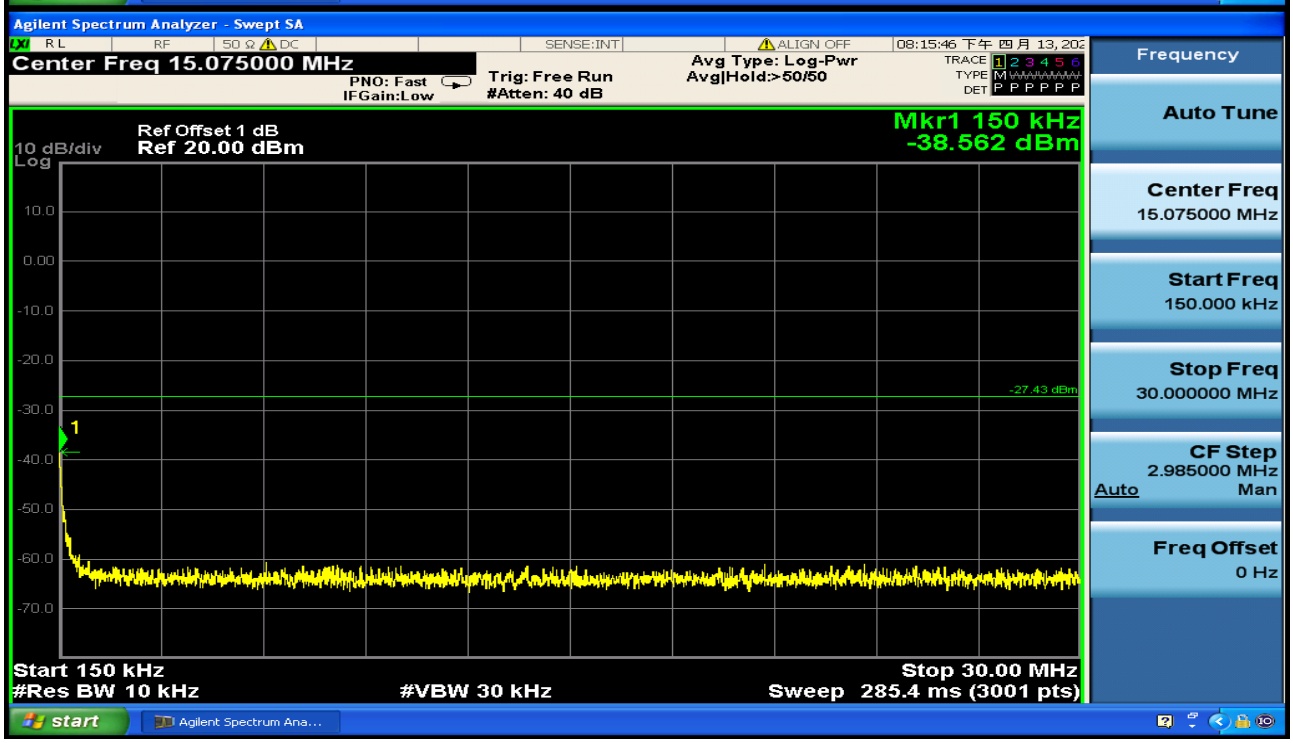

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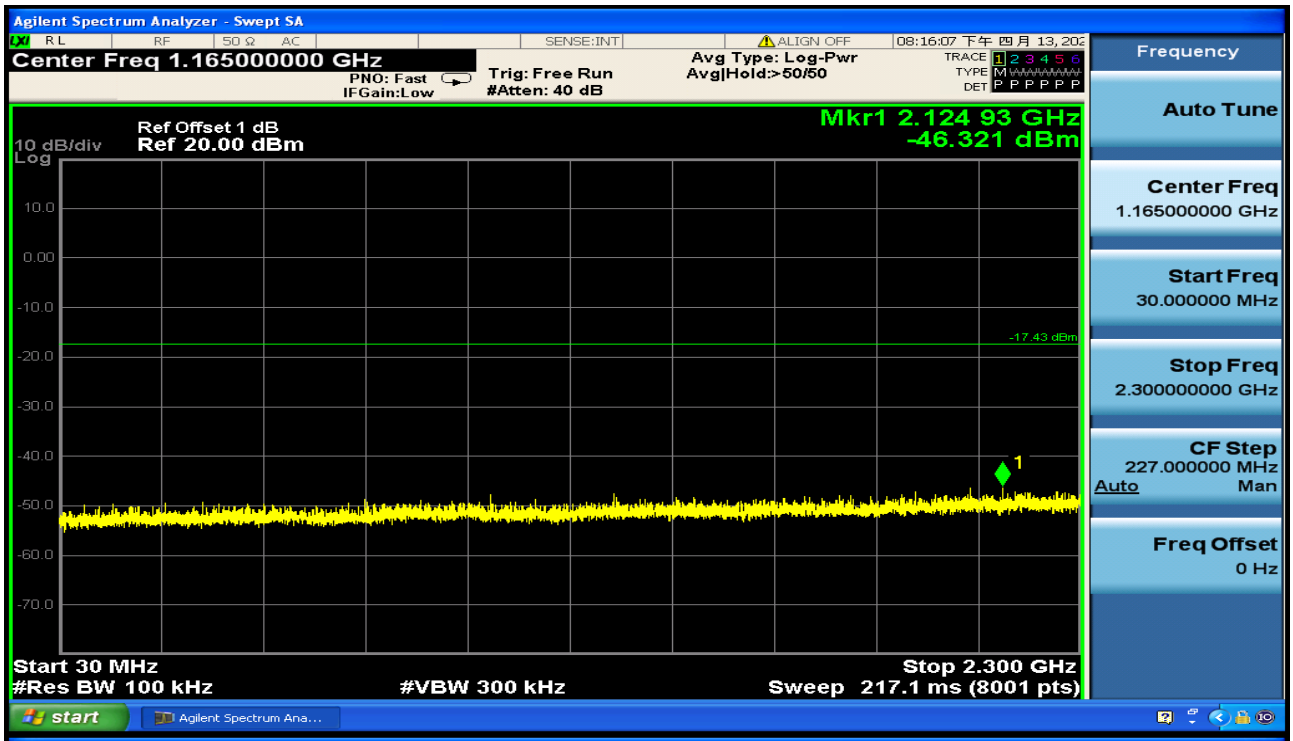

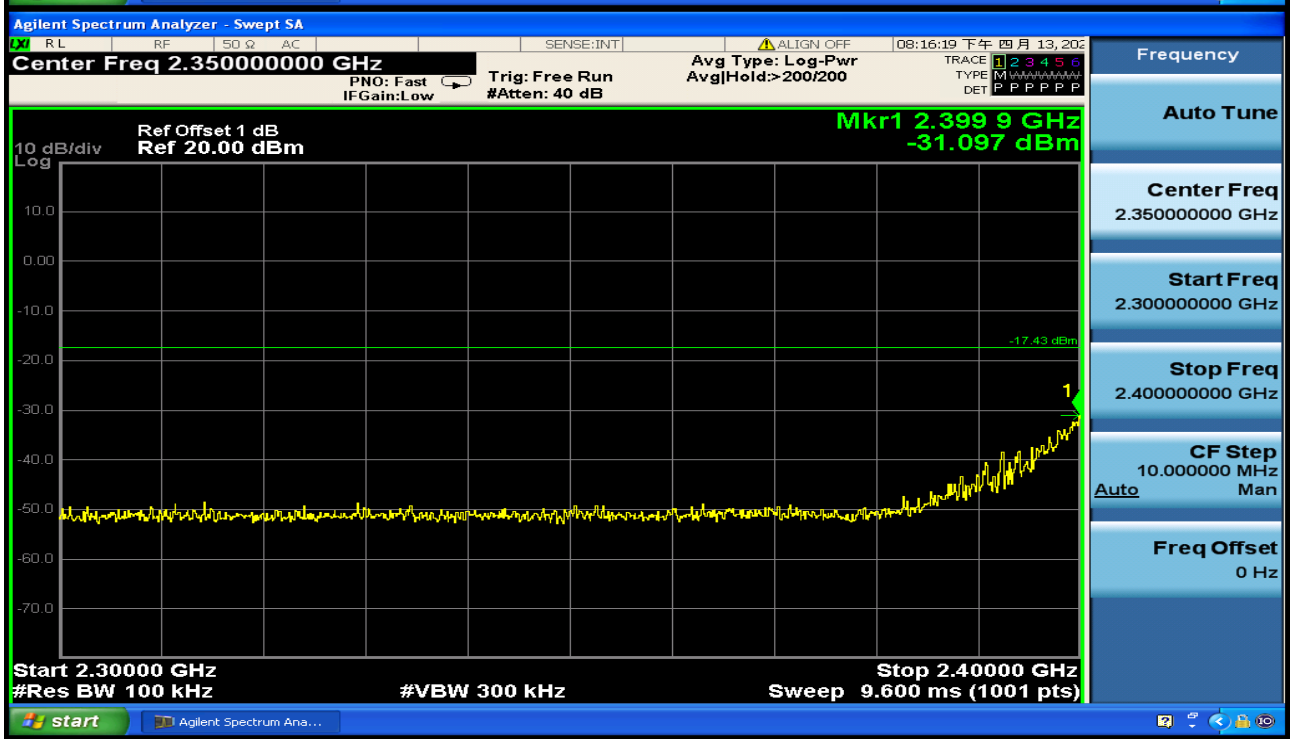

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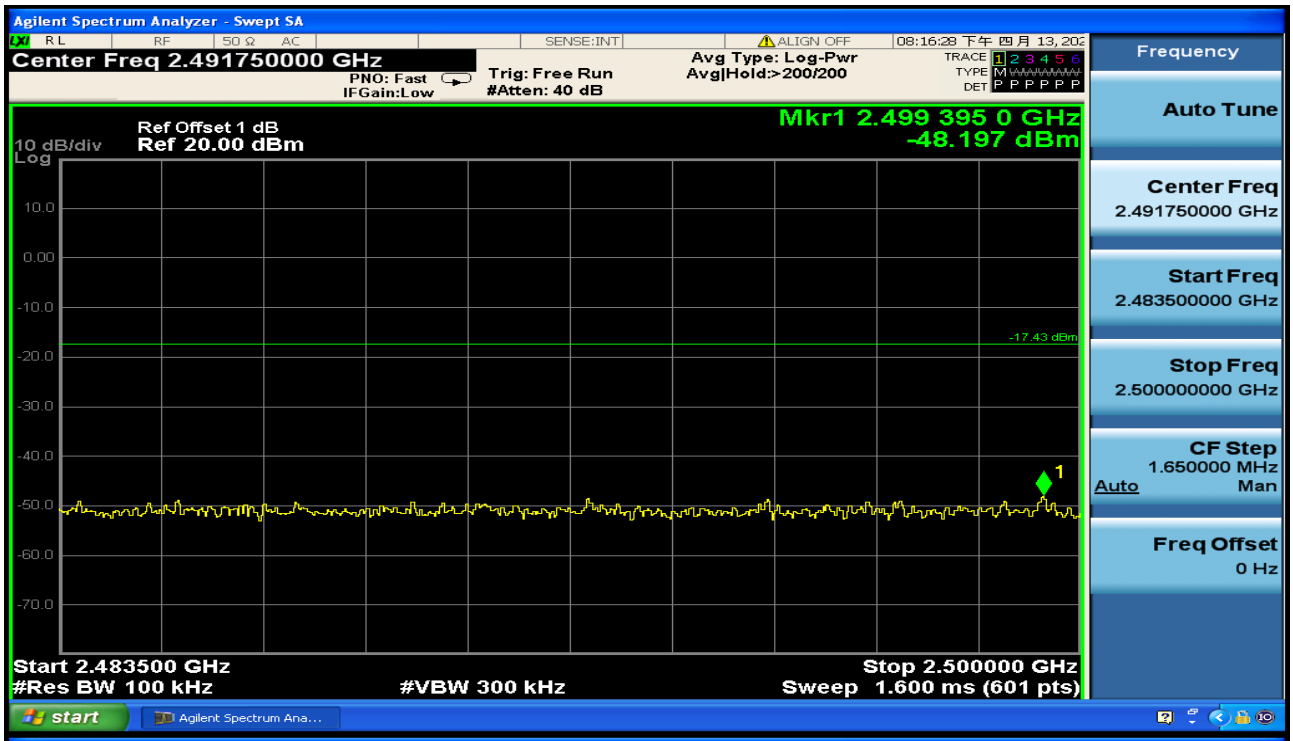

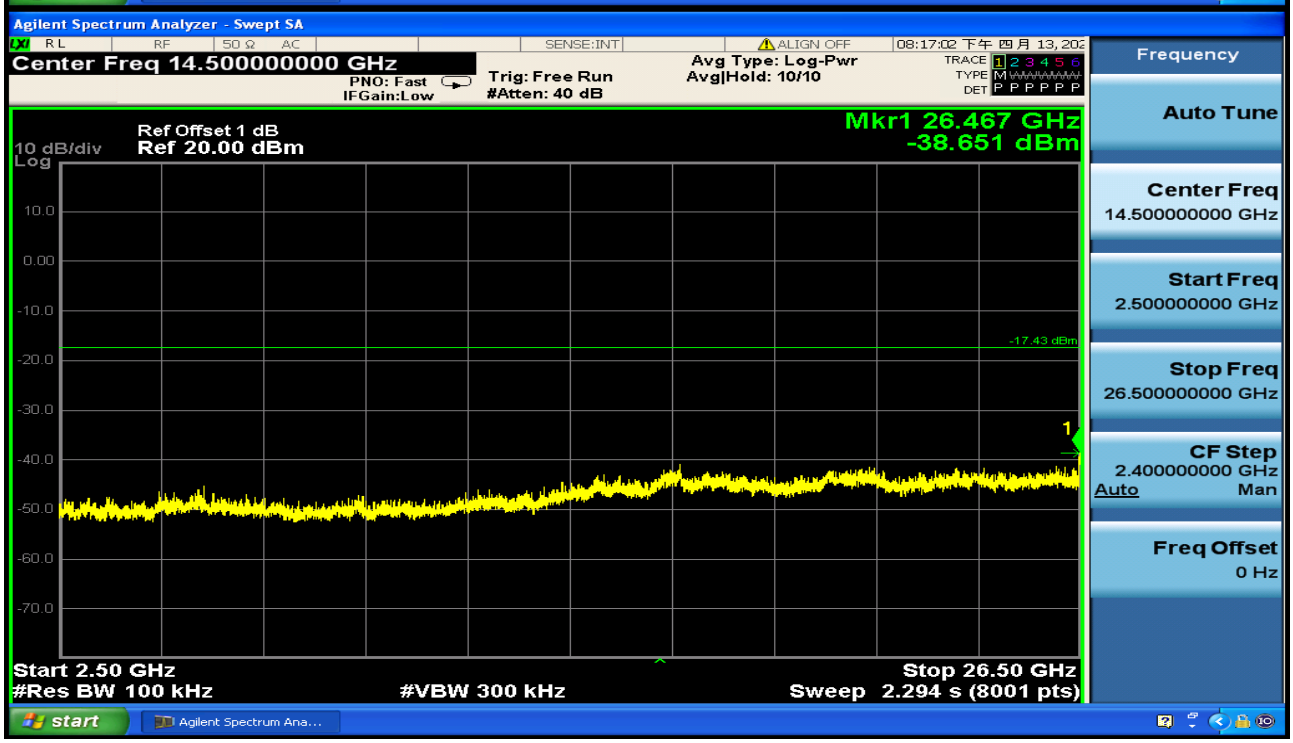

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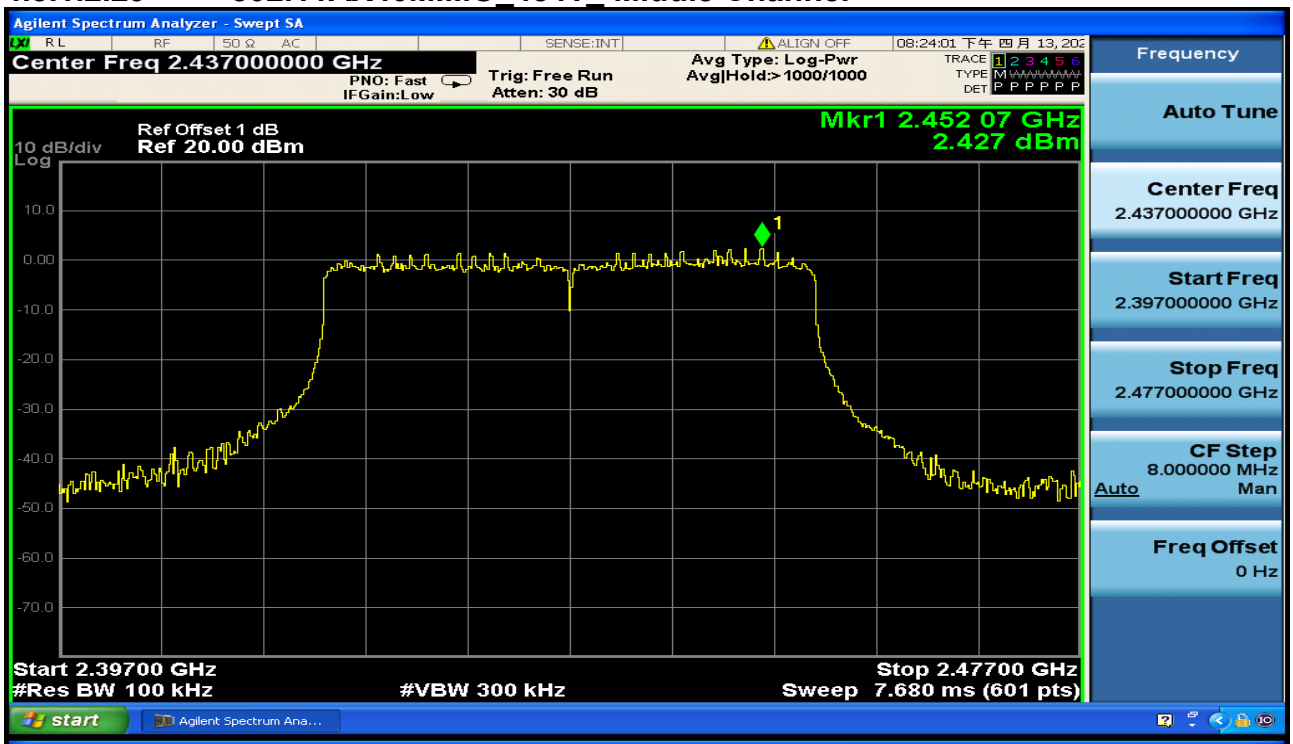
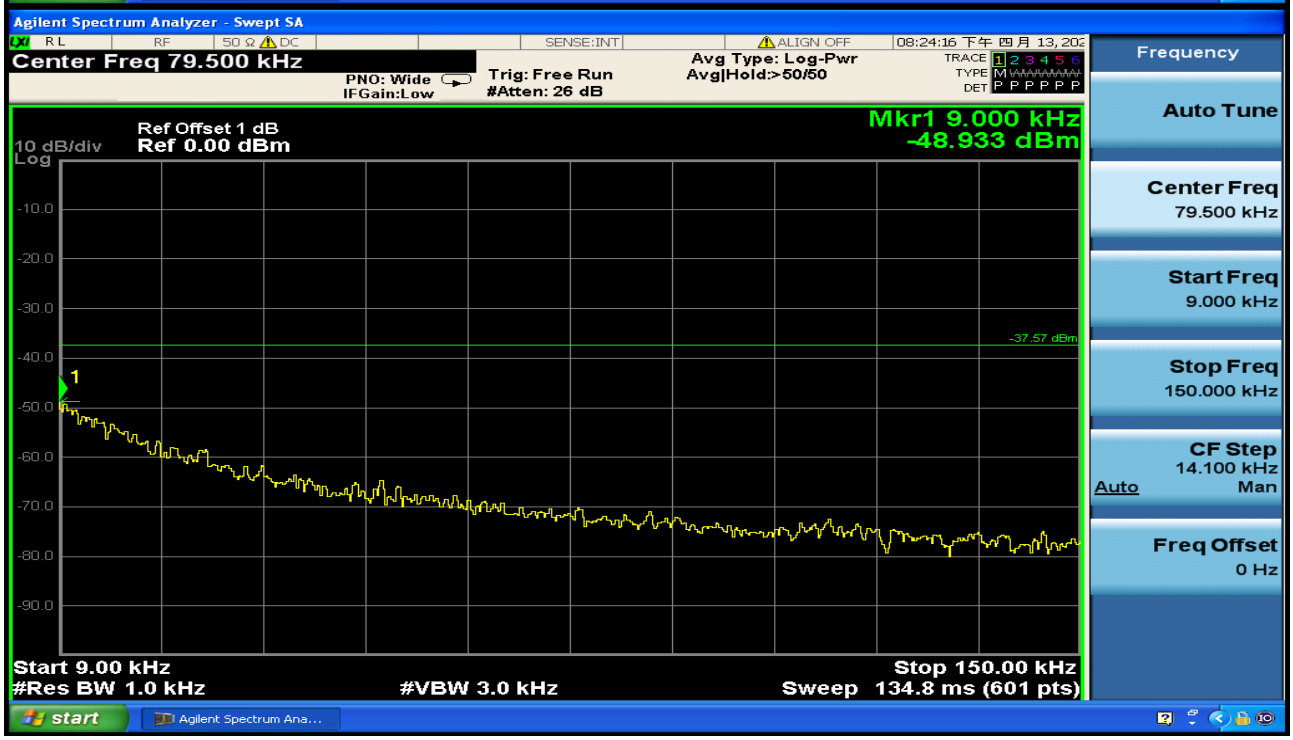
4.8.1.2.29 802.11AX40MIMO_484T_ Middle Channel





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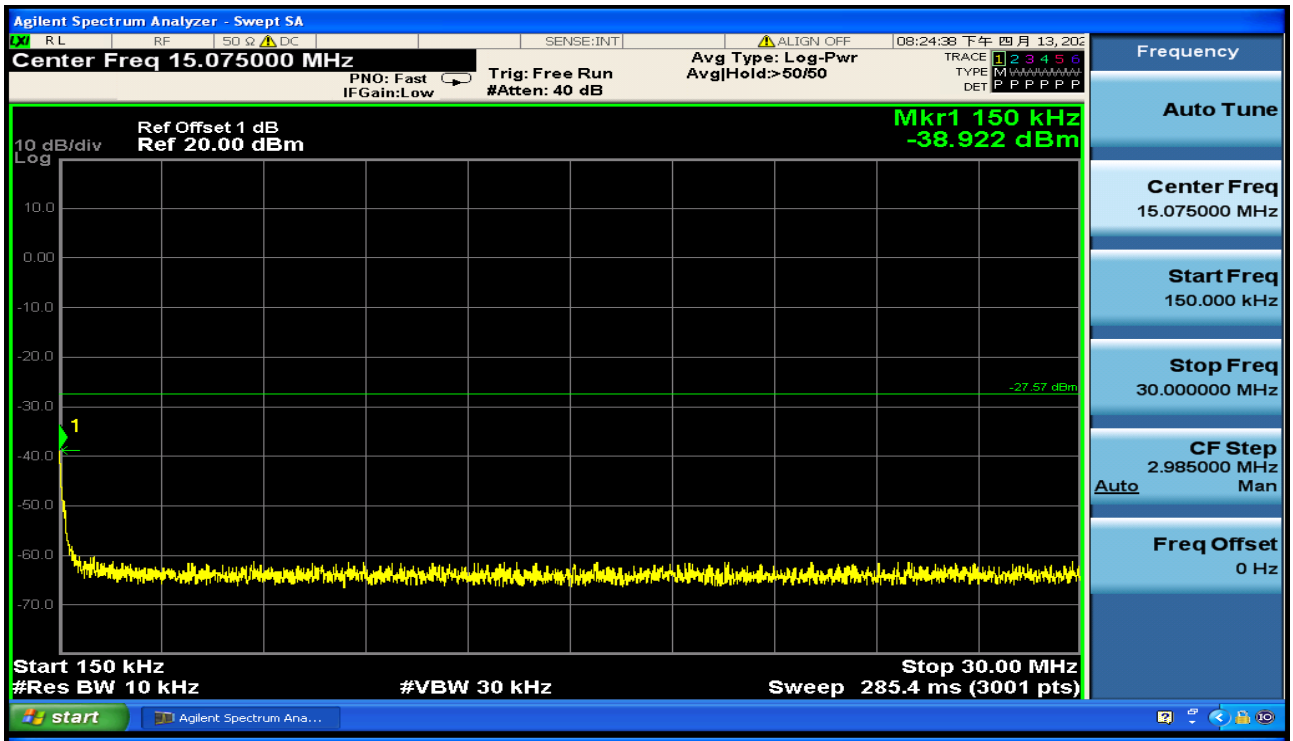

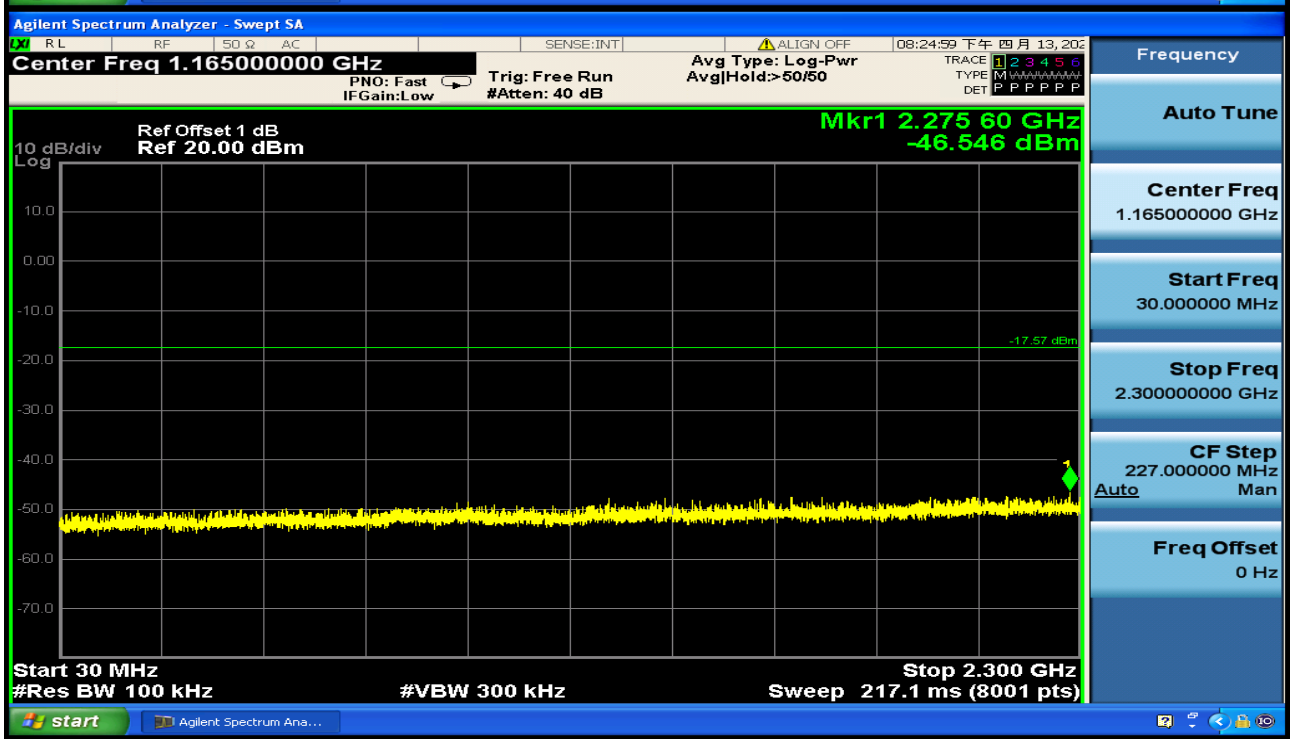

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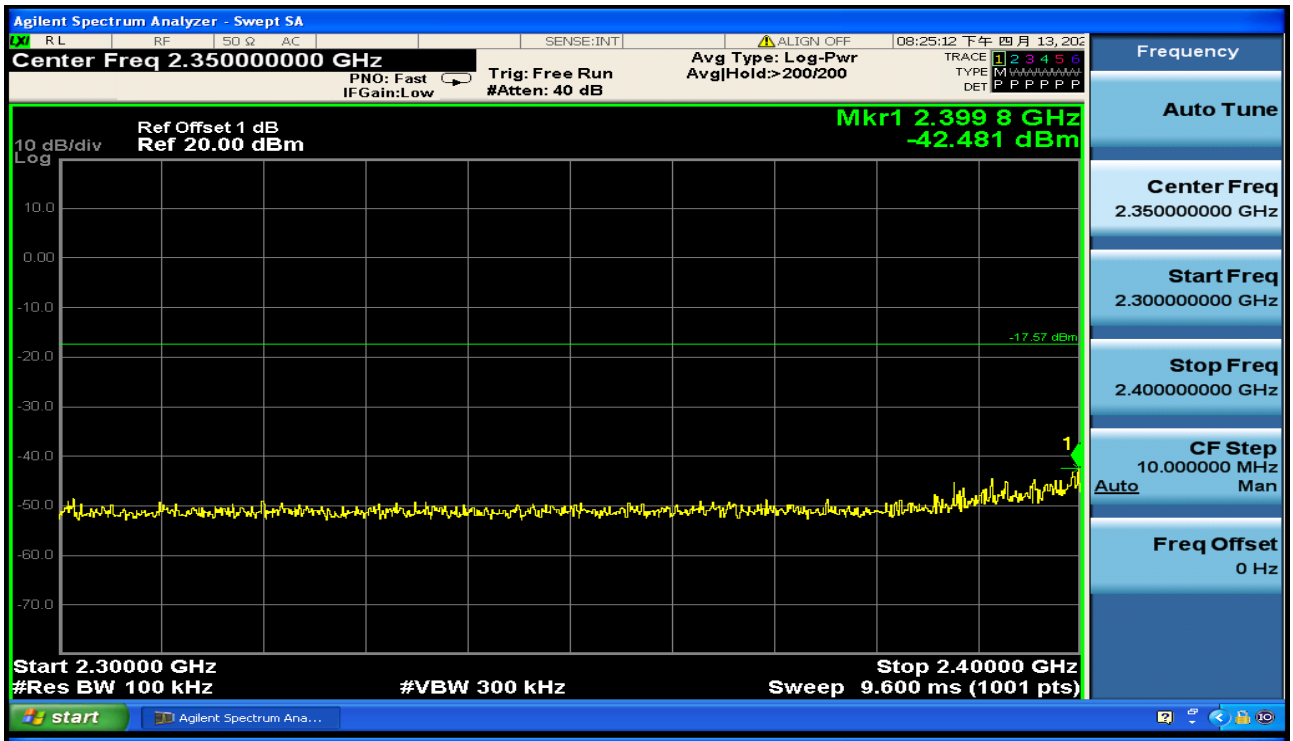

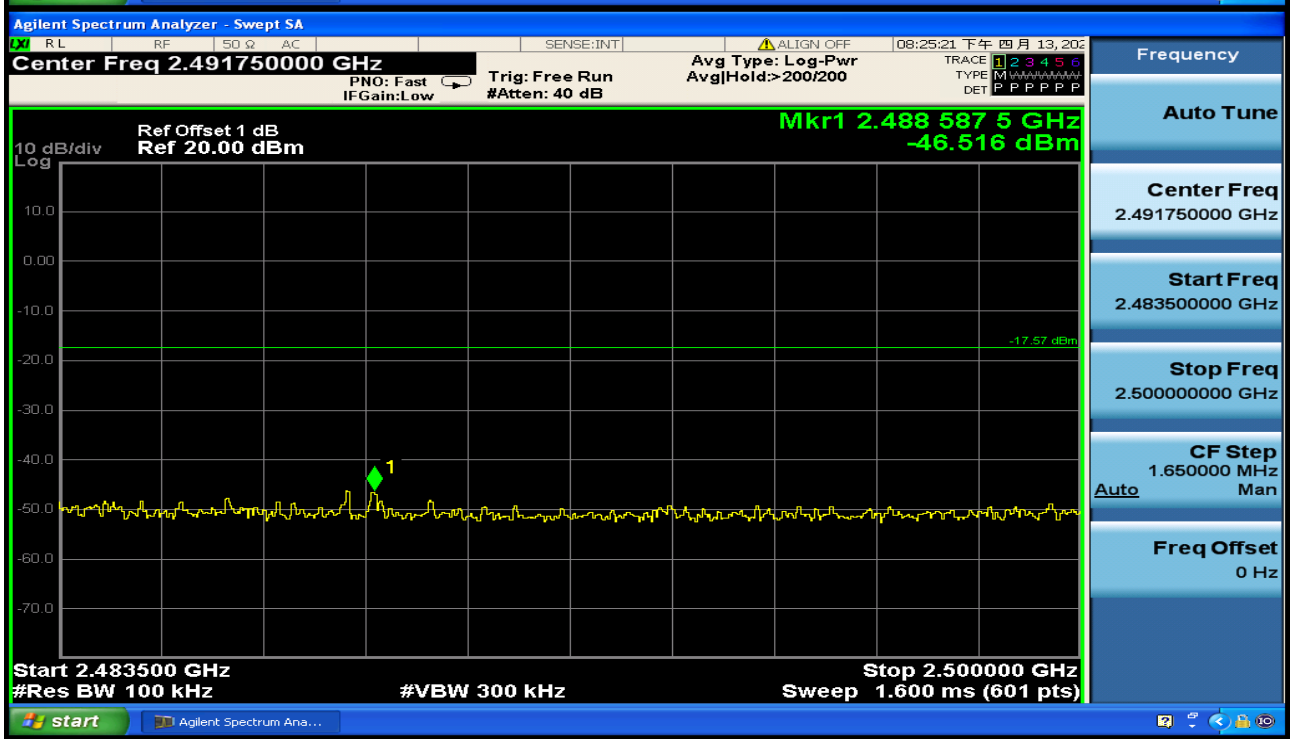

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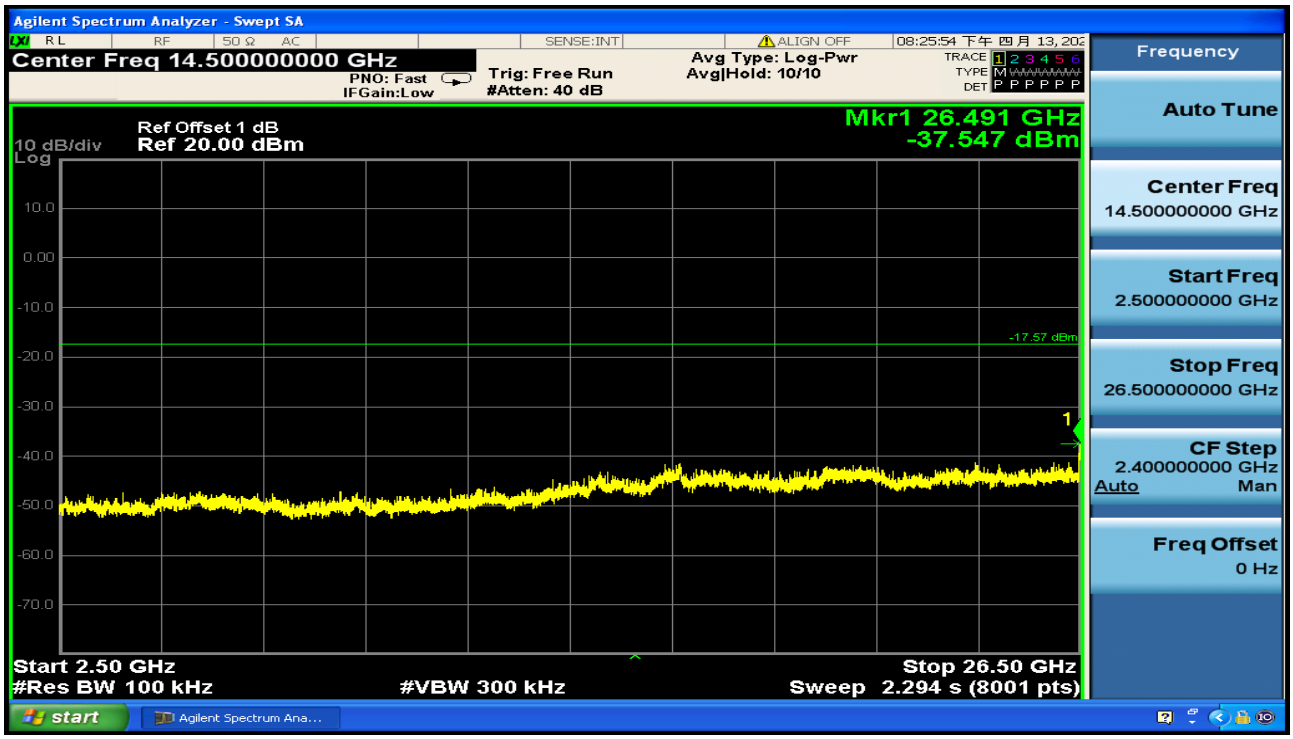

4.8.1.2.30 802.11AX40MIMO_484T_ Highest Channel

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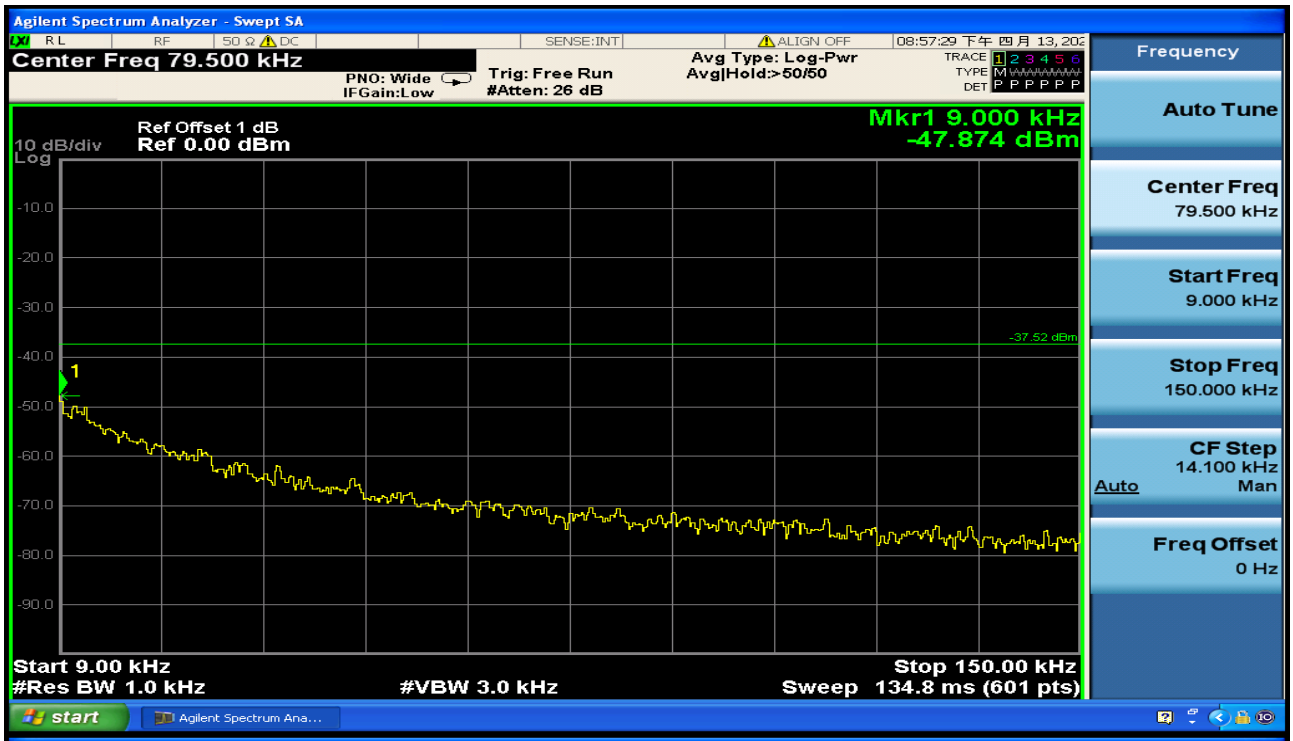

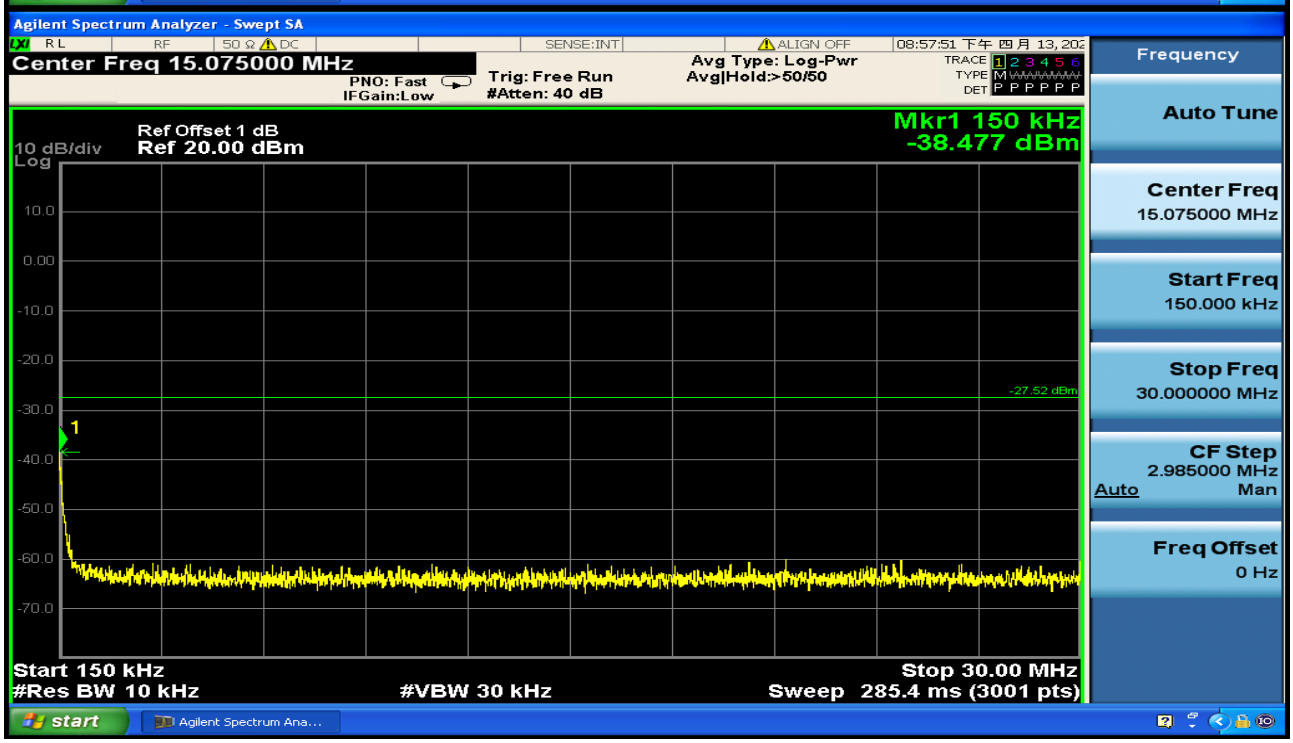

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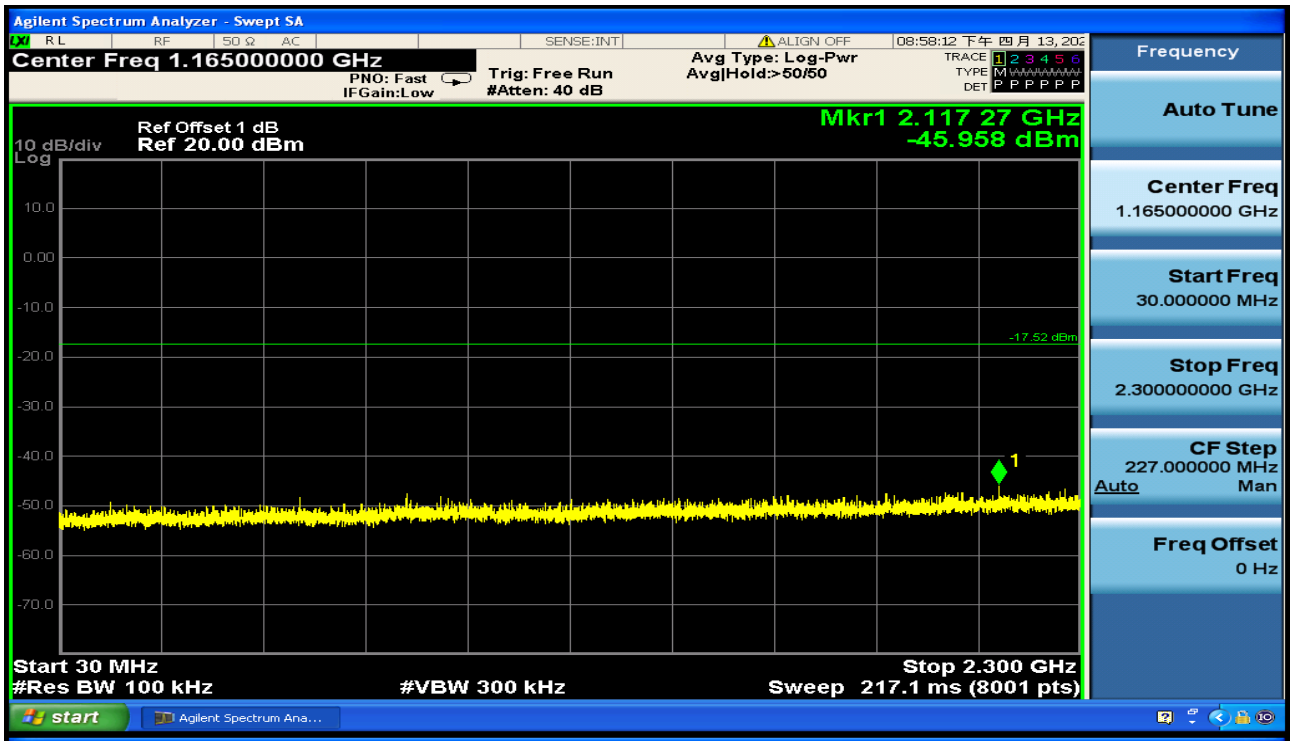

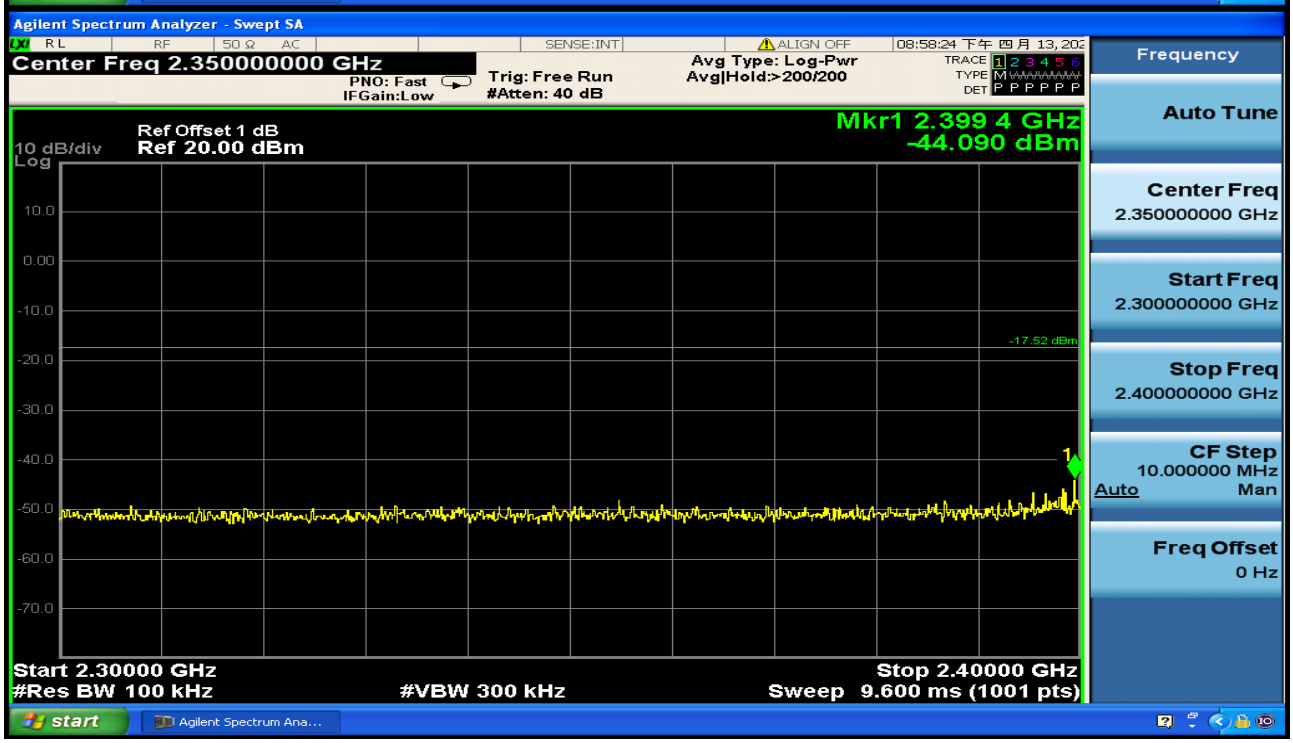

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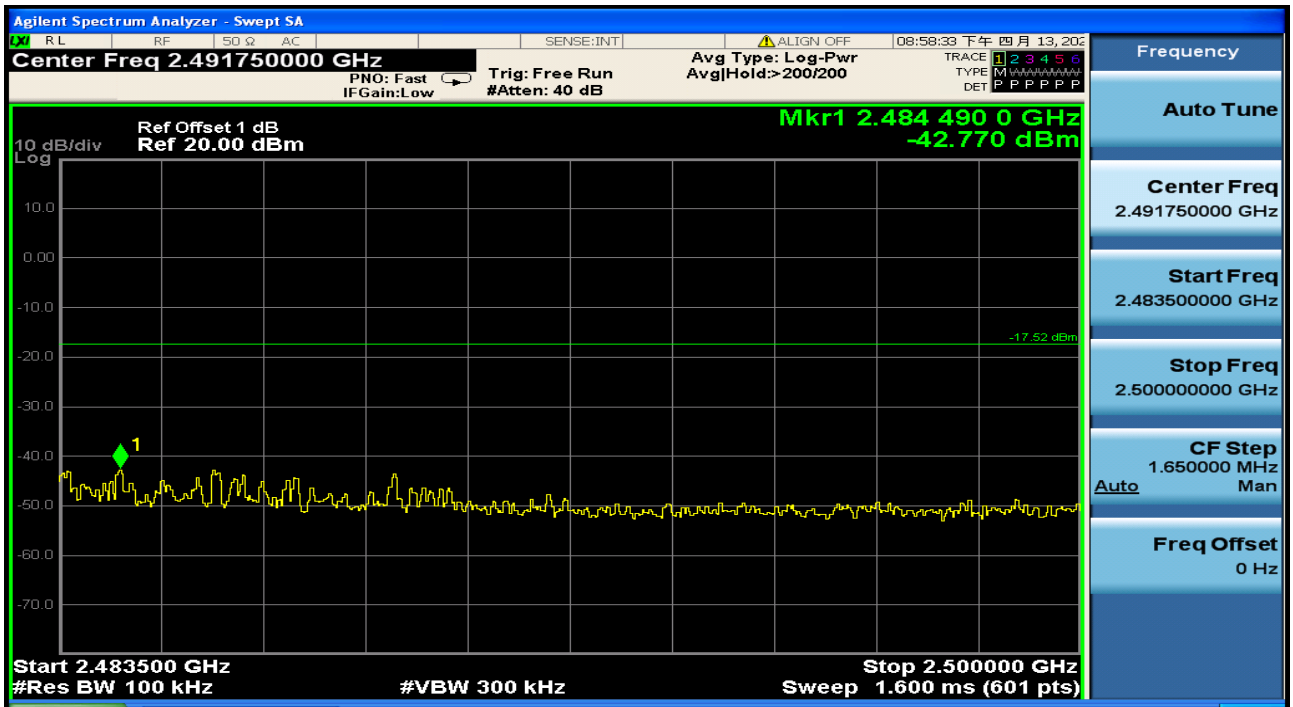

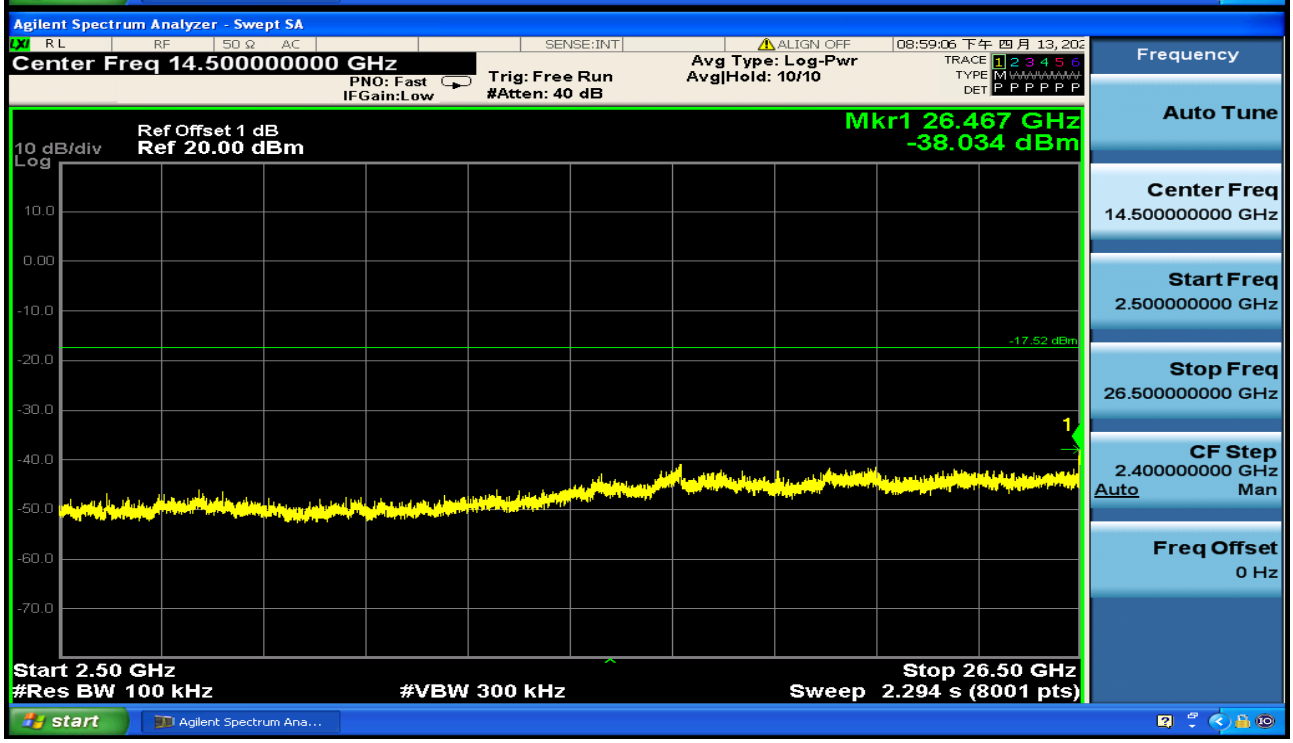

Remark:

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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4.9 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 or 10m (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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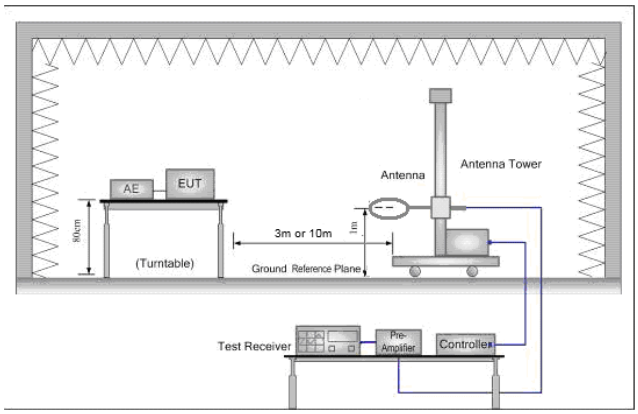

Figure 1. Below 30MHz

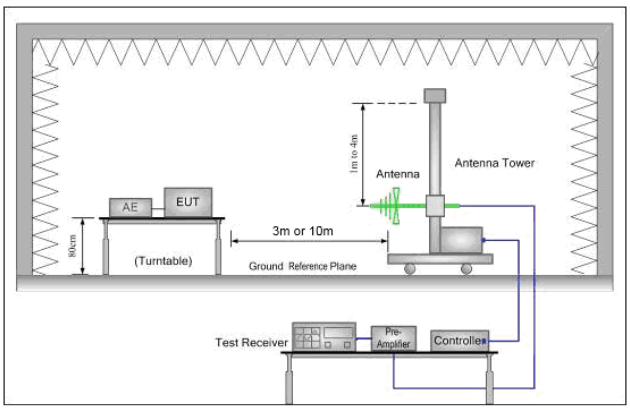

Figure 2. 30MHz to 1GHz

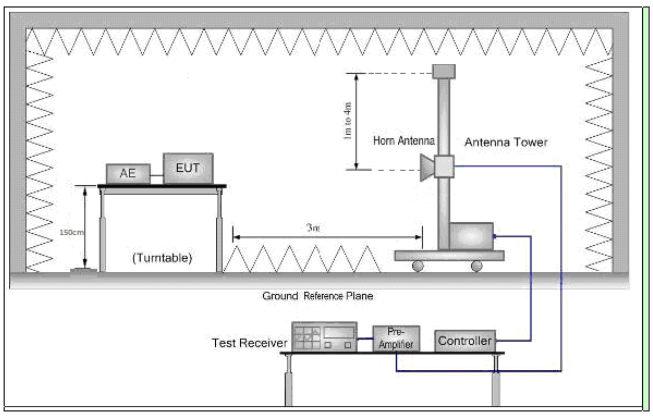

Figure 3. Above 1 GHz

Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees todetermine 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 groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, whichwas 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. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW ⩾ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time = N 1 *L 1 +N 2 *L 2 +...+N n-1 *LN n-1 +N n *L n

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	Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle) f. For each suspected emission, the EUT was arranged to its worst case and thenthe 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 rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading. g. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. h. 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 re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. i. Test the EUT in the lowest channel,the middle channel ,the Highest channel j. 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. k. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; MCS0 of rate is the worst case of 802.11N(HT20); MCS0 of rate is the worst case of 802.11N(HT40) MCS0 of rate is the worst case of 802.11AX(HT20). MCS0 of rate is the worst case of 802.11AX(HT40). 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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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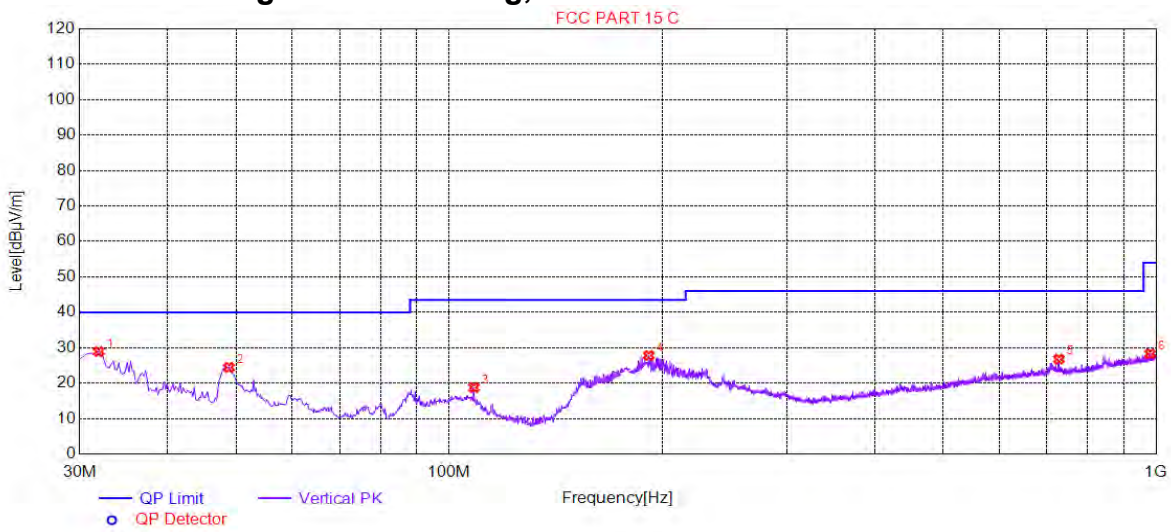
4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.9404	28.92	-30.03	40.00	11.08	100	14	Vertical
2	48.8218	24.43	-30.38	40.00	15.57	100	14	Vertical
3	108.3917	18.76	-32.00	43.50	24.74	100	137	Vertical
4	191.6343	27.82	-32.08	43.50	15.68	100	19	Vertical
5	728.5397	26.79	-18.84	46.00	19.21	200	37	Vertical
6	980.7902	28.32	-15.06	54.00	25.68	200	220	Vertical

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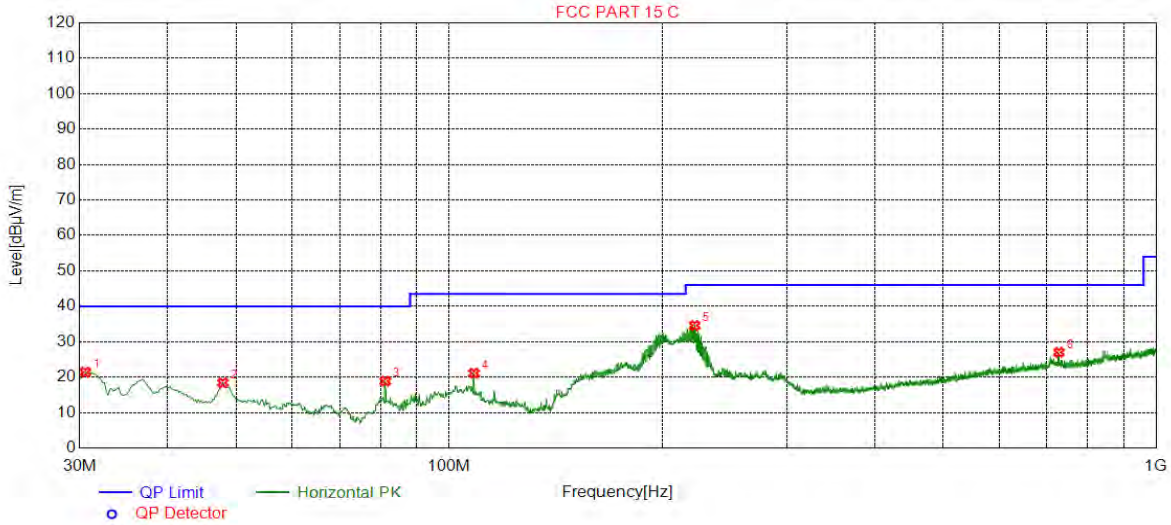
4.9.1.2 Charge + Transmitting, Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.5821	21.39	-30.07	40.00	18.61	200	249	Horizontal
2	47.8516	18.40	-30.39	40.00	21.60	200	258	Horizontal
3	81.2262	18.85	-35.85	40.00	21.15	200	252	Horizontal
4	108.3917	21.11	-32.00	43.50	22.39	200	252	Horizontal
5	222.4865	34.57	-30.64	46.00	11.43	100	288	Horizontal
6	728.7337	27.00	-18.83	46.00	19.00	200	255	Horizontal

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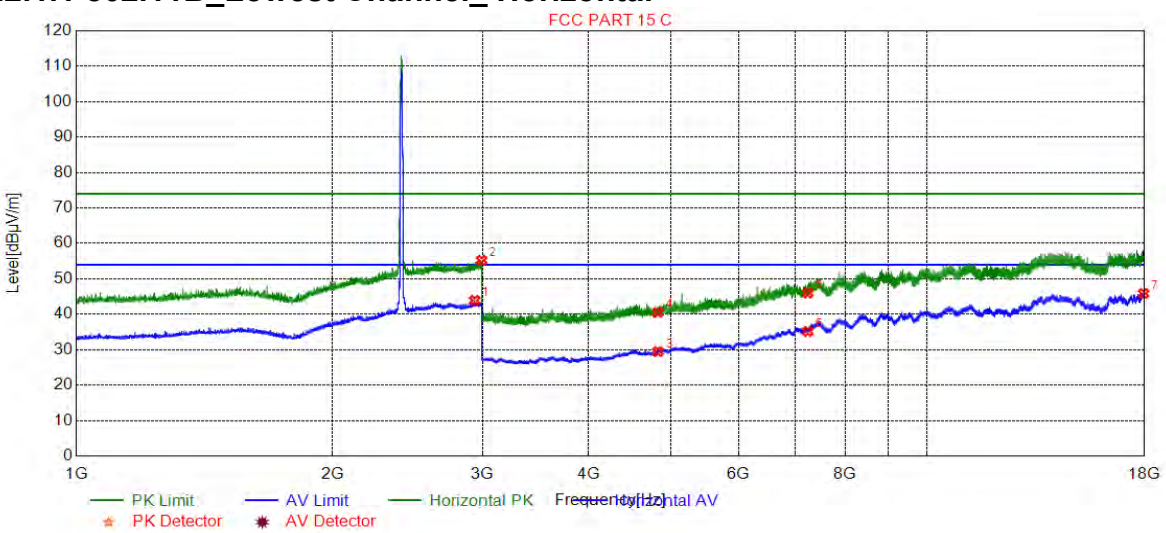
4.9.2 Transmitter emission above 1GHz

4.9.2.1 CDD & MIMO

4.9.2.1.1 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.4844	43.91	9.54	54.00	10.09	150	302	Horizontal
2	2993.4984	55.25	9.48	74.00	18.75	150	342	Horizontal
3	4824.0000	29.48	-18.21	54.00	24.52	150	209	Horizontal
4	4824.0000	40.55	-18.21	74.00	33.45	150	344	Horizontal
5	7236.0000	46.04	-9.99	74.00	27.96	150	342	Horizontal
6	7236.0000	35.17	-9.99	54.00	18.83	150	292	Horizontal
7	17947.7474	45.88	0.70	54.00	8.12	150	292	Horizontal

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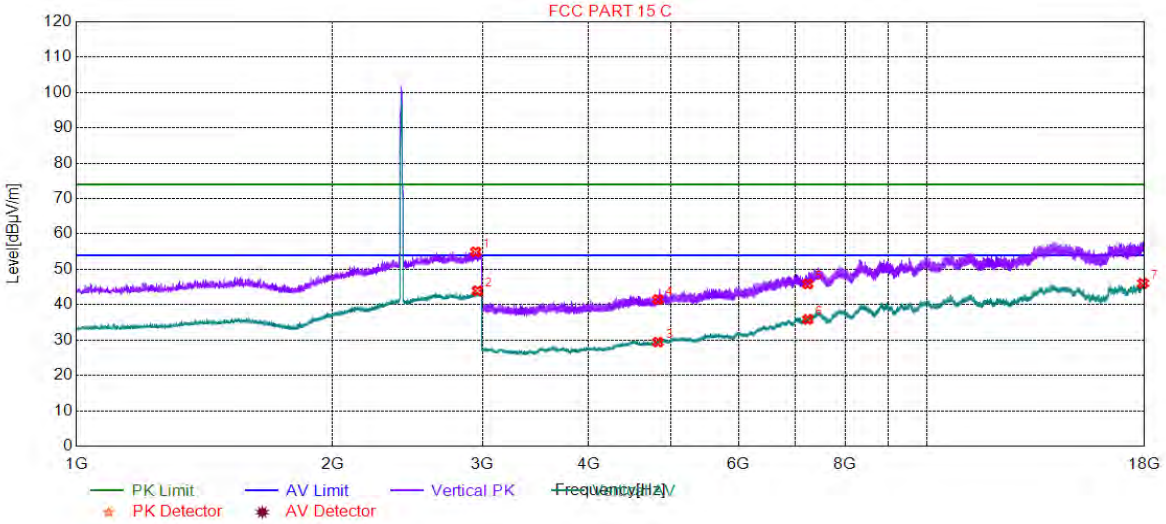
4.9.2.1.2 802.11B_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.4866	54.95	9.64	74.00	19.05	150	280	Vertical
2	2960.4901	43.93	9.63	54.00	10.07	150	294	Vertical
3	4824.0000	29.42	-18.21	54.00	24.58	150	18	Vertical
4	4824.0000	41.48	-18.21	74.00	32.52	150	340	Vertical
5	7236.0000	45.87	-9.99	74.00	28.13	150	0	Vertical
6	7236.0000	35.85	-9.99	54.00	18.15	150	141	Vertical
7	17921.3461	46.06	0.70	54.00	7.94	150	190	Vertical

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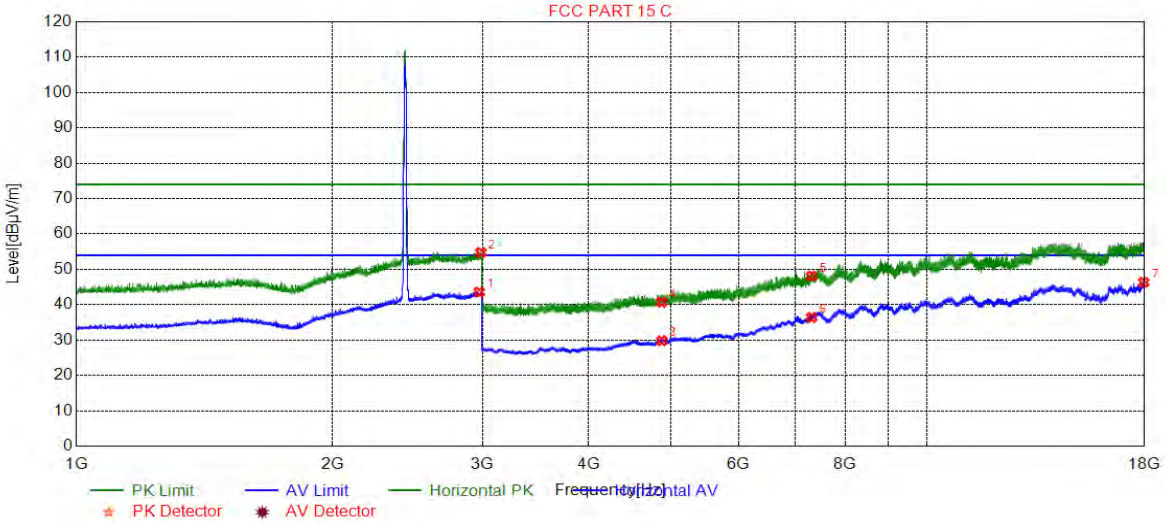
4.9.2.1.3 802.11B_Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.9935	43.57	9.57	54.00	10.43	150	2	Horizontal
2	2987.9970	54.76	9.51	74.00	19.24	150	40	Horizontal
3	4874.0000	29.81	-17.99	54.00	24.19	150	241	Horizontal
4	4874.0000	40.72	-17.99	74.00	33.28	150	72	Horizontal
5	7311.0000	48.12	-9.74	74.00	25.88	150	94	Horizontal
6	7311.0000	36.40	-9.74	54.00	17.60	150	243	Horizontal
7	17958.7479	46.33	0.71	54.00	7.67	150	243	Horizontal

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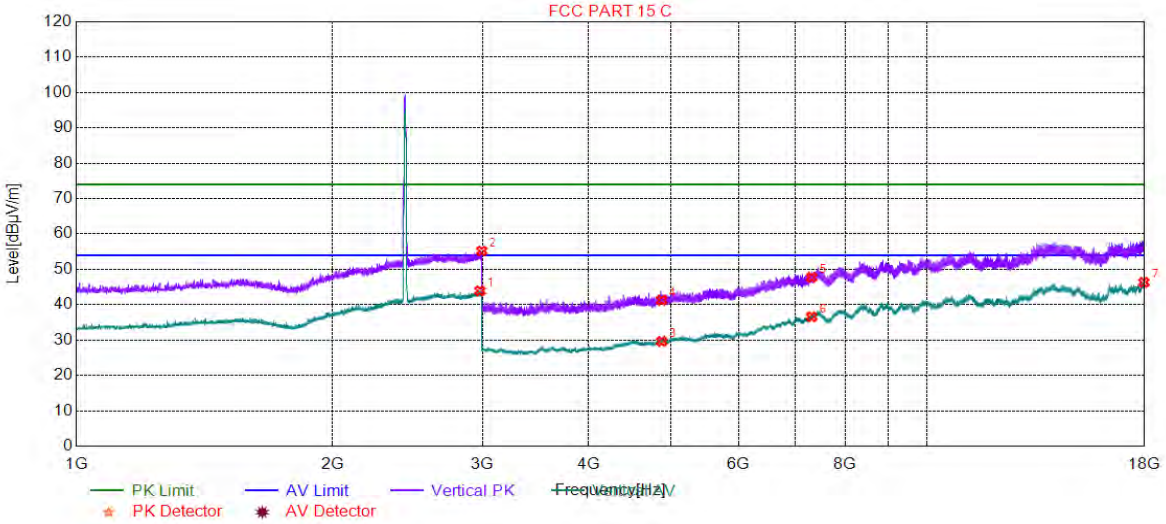
4.9.2.1.4 802.11B_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.4951	43.92	9.54	54.00	10.08	150	291	Vertical
2	2994.9988	55.22	9.47	74.00	18.78	150	333	Vertical
3	4874.0000	29.64	-17.99	54.00	24.36	150	263	Vertical
4	4874.0000	41.28	-17.99	74.00	32.72	150	263	Vertical
5	7311.0000	47.73	-9.74	74.00	26.27	150	143	Vertical
6	7311.0000	36.59	-9.74	54.00	17.41	150	44	Vertical
7	17961.4981	46.31	0.71	54.00	7.69	150	292	Vertical

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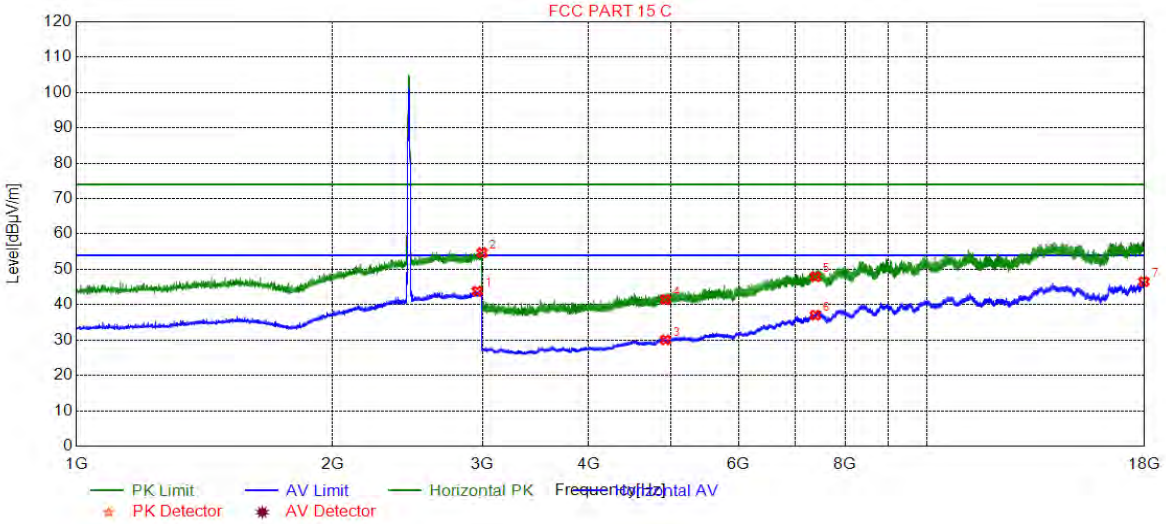
4.9.2.1.5 802.11B_Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2958.9897	43.82	9.64	54.00	10.18	150	328	Horizontal
2	2997.9995	54.70	9.46	74.00	19.30	150	0	Horizontal
3	4924.0000	30.05	-17.72	54.00	23.95	150	18	Horizontal
4	4924.0000	41.46	-17.72	74.00	32.54	150	288	Horizontal
5	7386.0000	47.91	-9.55	74.00	26.09	150	342	Horizontal
6	7386.0000	37.04	-9.55	54.00	16.96	150	193	Horizontal
7	17965.8983	46.54	0.71	54.00	7.46	150	46	Horizontal

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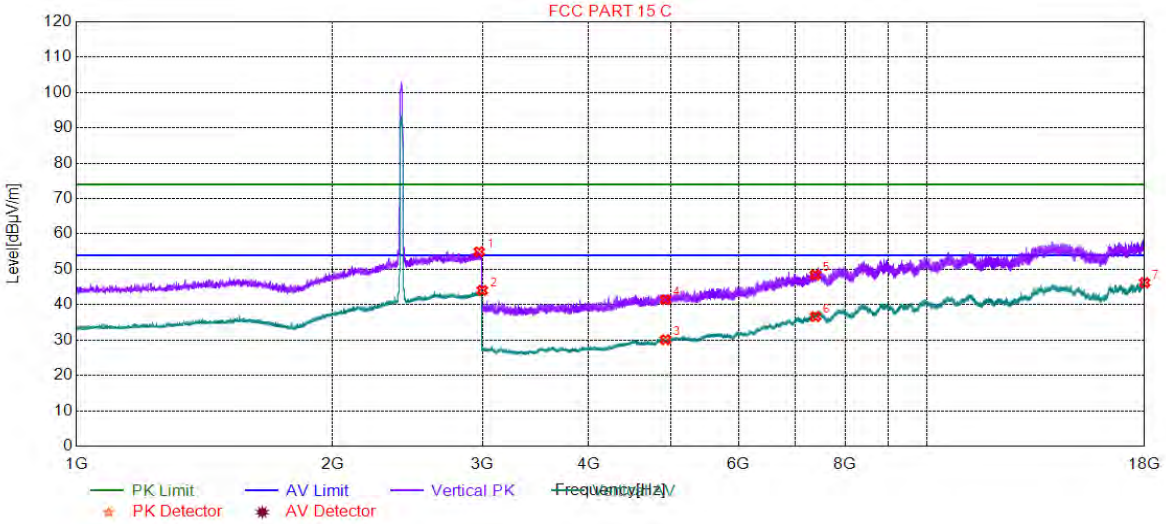
4.9.2.1.6 802.11B_Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.4934	54.99	9.57	74.00	19.01	150	32	Vertical
2	2998.9998	44.06	9.45	54.00	9.94	150	100	Vertical
3	4924.0000	30.09	-17.72	54.00	23.91	150	18	Vertical
4	4924.0000	41.40	-17.72	74.00	32.60	150	360	Vertical
5	7386.0000	48.42	-9.55	74.00	25.58	150	292	Vertical
6	7386.0000	36.65	-9.55	54.00	17.35	150	242	Vertical
7	17997.7999	46.23	0.72	54.00	7.77	150	242	Vertical

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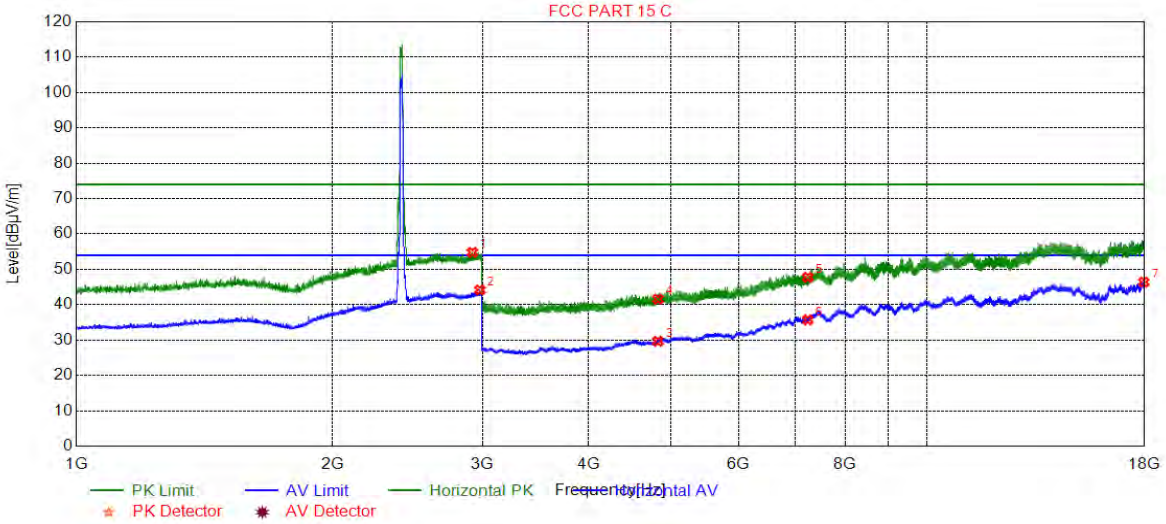
4.9.2.1.7 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2919.4799	54.82	9.35	74.00	19.18	150	66	Horizontal
2	2980.4951	44.19	9.54	54.00	9.81	150	122	Horizontal
3	4824.0000	29.67	-18.21	54.00	24.33	150	181	Horizontal
4	4824.0000	41.60	-18.21	74.00	32.40	150	127	Horizontal
5	7236.0000	47.75	-9.99	74.00	26.25	150	194	Horizontal
6	7236.0000	35.73	-9.99	54.00	18.27	150	194	Horizontal
7	17959.8480	46.38	0.71	54.00	7.62	150	342	Horizontal

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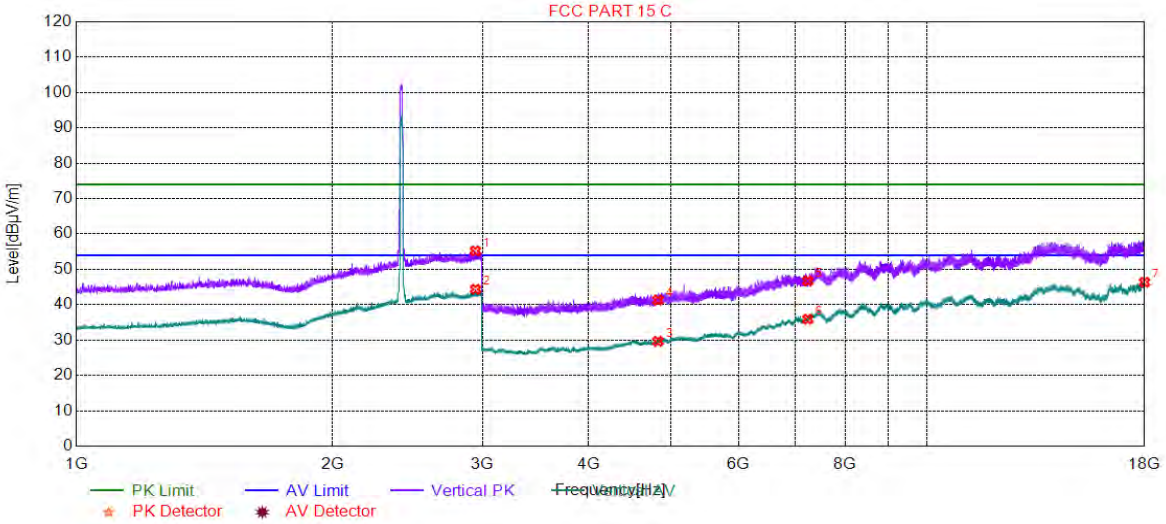
4.9.2.1.8 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.9860	55.21	9.62	74.00	18.79	150	73	Vertical
2	2944.9862	44.38	9.63	54.00	9.62	150	18	Vertical
3	4824.0000	29.66	-18.21	54.00	24.34	150	290	Vertical
4	4824.0000	41.29	-18.21	74.00	32.71	150	72	Vertical
5	7236.0000	46.72	-9.99	74.00	27.28	150	243	Vertical
6	7236.0000	35.91	-9.99	54.00	18.09	150	44	Vertical
7	17992.8496	46.35	0.72	54.00	7.65	150	243	Vertical

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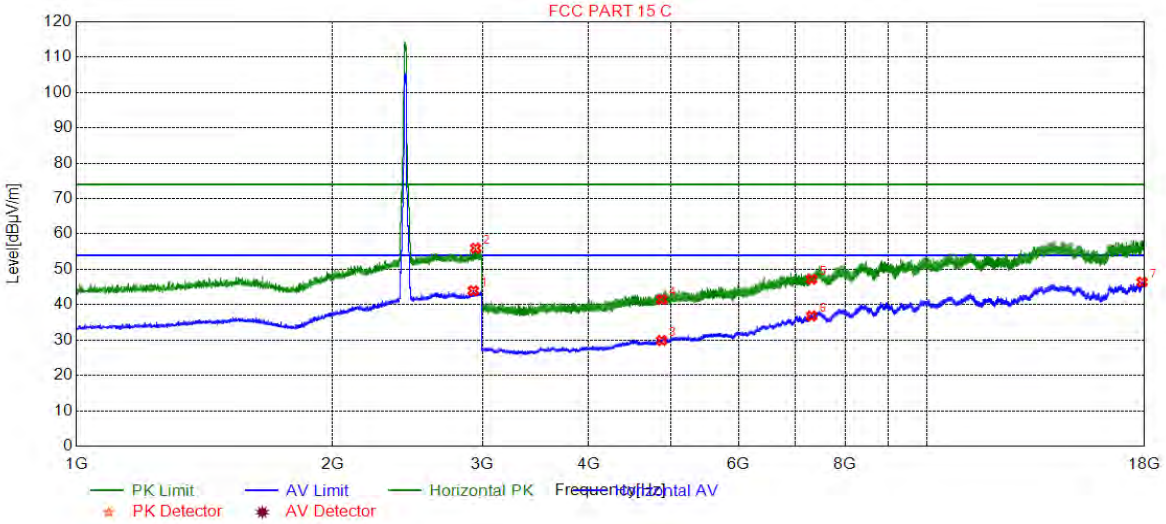
4.9.2.1.9 802.11G_Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.4819	43.94	9.44	54.00	10.06	150	3	Horizontal
2	2945.4864	56.00	9.63	74.00	18.00	150	40	Horizontal
3	4874.0000	29.88	-17.99	54.00	24.12	150	318	Horizontal
4	4874.0000	41.49	-17.99	74.00	32.51	150	345	Horizontal
5	7311.0000	47.19	-9.74	74.00	26.81	150	94	Horizontal
6	7311.0000	36.80	-9.74	54.00	17.20	150	1	Horizontal
7	17877.8939	46.41	0.40	54.00	7.59	150	45	Horizontal

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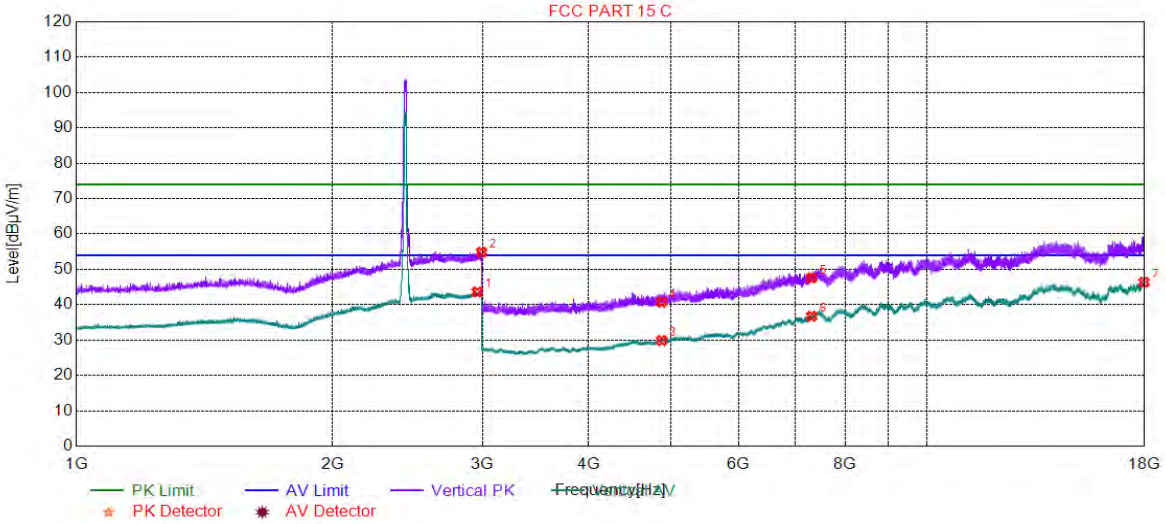
4.9.2.1.10 802.11G_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2957.9895	43.61	9.64	54.00	10.39	150	114	Vertical
2	2994.4986	54.86	9.48	74.00	19.14	150	318	Vertical
3	4874.0000	29.87	-17.99	54.00	24.13	150	153	Vertical
4	4874.0000	40.71	-17.99	74.00	33.29	150	99	Vertical
5	7311.0000	47.58	-9.74	74.00	26.42	150	194	Vertical
6	7311.0000	36.75	-9.74	54.00	17.25	150	194	Vertical
7	17968.0984	46.34	0.71	54.00	7.66	150	243	Vertical

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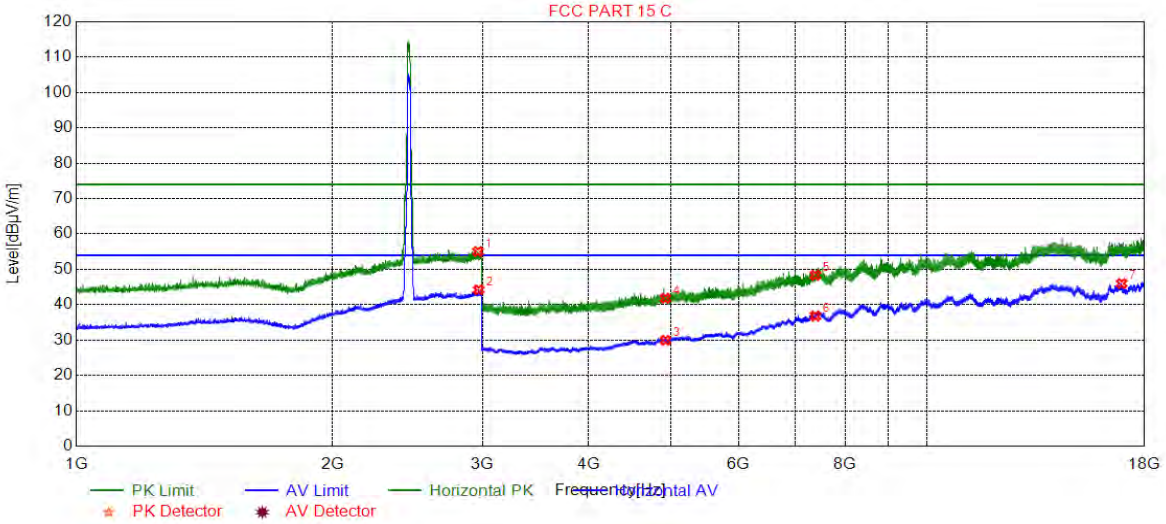
4.9.2.1.11 802.11G_Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.4911	55.03	9.61	74.00	18.97	150	55	Horizontal
2	2970.4926	44.22	9.59	54.00	9.78	150	28	Horizontal
3	4924.0000	29.93	-17.72	54.00	24.07	150	360	Horizontal
4	4924.0000	41.82	-17.72	74.00	32.18	150	318	Horizontal
5	7386.0000	48.35	-9.55	74.00	25.65	150	143	Horizontal
6	7386.0000	36.78	-9.55	54.00	17.22	150	143	Horizontal
7	16914.2457	45.99	1.04	54.00	8.01	150	143	Horizontal

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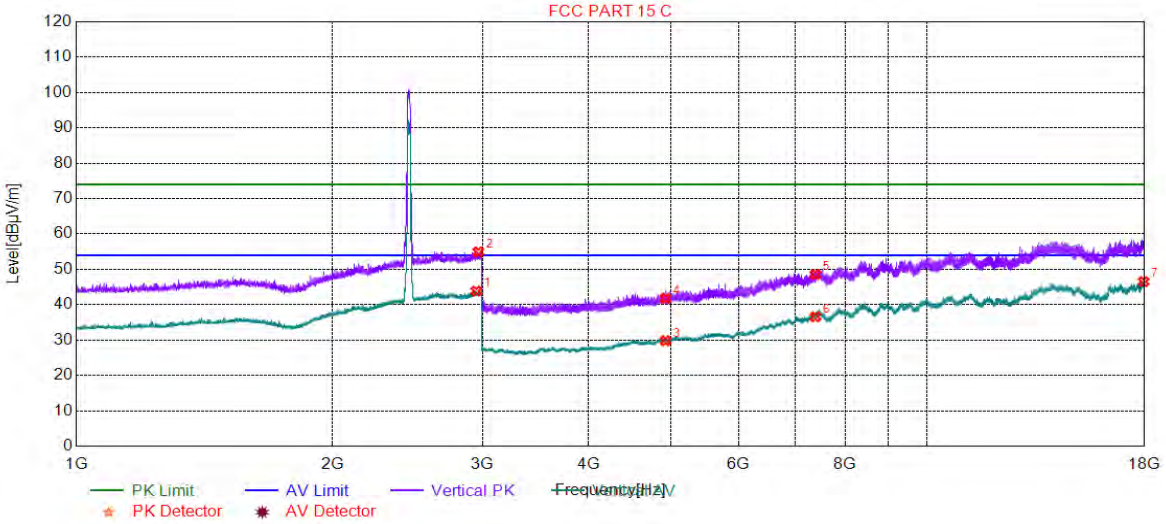
4.9.2.1.12 802.11G_Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.4876	43.87	9.68	54.00	10.13	150	239	Vertical
2	2966.9917	54.95	9.60	74.00	19.05	150	198	Vertical
3	4924.0000	29.79	-17.72	54.00	24.21	150	262	Vertical
4	4924.0000	41.79	-17.72	74.00	32.21	150	18	Vertical
5	7386.0000	48.55	-9.55	74.00	25.45	150	292	Vertical
6	7386.0000	36.59	-9.55	54.00	17.41	150	143	Vertical
7	17952.1476	46.54	0.71	54.00	7.46	150	292	Vertical

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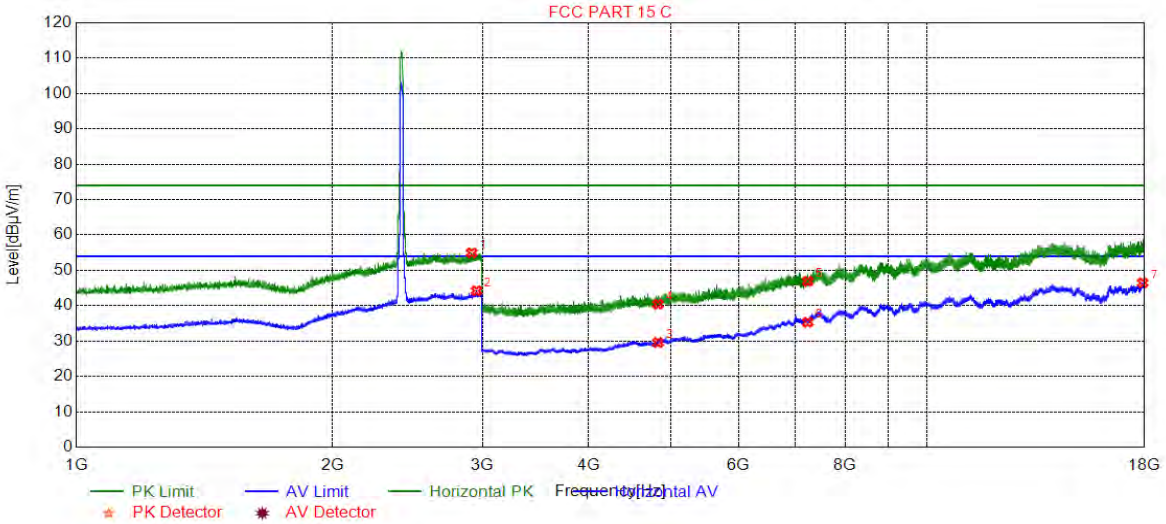
4.9.2.1.13 802.11N20MIMO_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2914.9787	54.95	9.30	74.00	19.05	150	246	Horizontal
2	2952.9882	44.22	9.67	54.00	9.78	150	39	Horizontal
3	4824.0000	29.61	-18.21	54.00	24.39	150	126	Horizontal
4	4824.0000	40.40	-18.21	74.00	33.60	150	181	Horizontal
5	7236.0000	46.87	-9.99	74.00	27.13	150	193	Horizontal
6	7236.0000	35.32	-9.99	54.00	18.68	150	242	Horizontal
7	17907.5954	46.48	0.69	54.00	7.52	150	292	Horizontal

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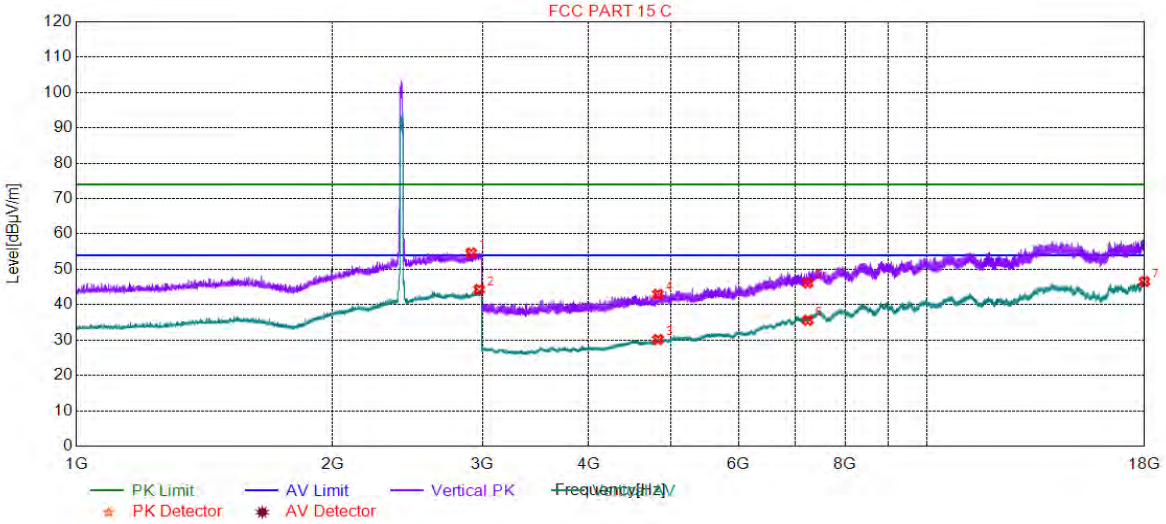
4.9.2.1.14 802.11N20MIMO_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2909.4774	54.64	9.24	74.00	19.36	150	169	Vertical
2	2973.4934	44.32	9.57	54.00	9.68	150	292	Vertical
3	4824.0000	30.17	-18.21	54.00	23.83	150	98	Vertical
4	4824.0000	42.96	-18.21	74.00	31.04	150	181	Vertical
5	7236.0000	46.15	-9.99	74.00	27.85	150	242	Vertical
6	7236.0000	35.60	-9.99	54.00	18.40	150	143	Vertical
7	17988.4494	46.53	0.72	54.00	7.47	150	292	Vertical

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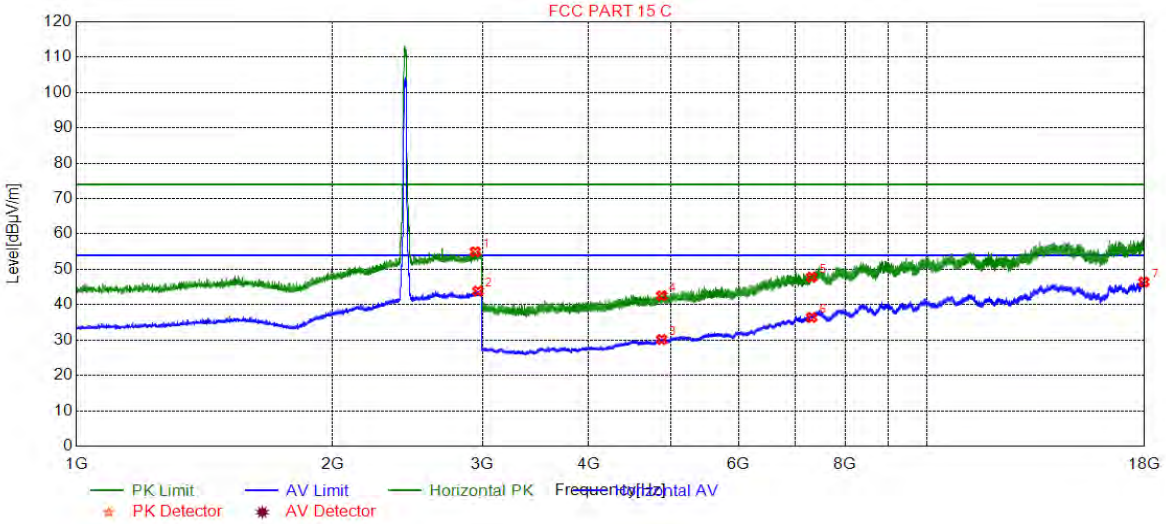
4.9.2.1.15 802.11N20MIMO_Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.4856	55.00	9.60	74.00	19.00	150	274	Horizontal
2	2964.4911	43.86	9.61	54.00	10.14	150	139	Horizontal
3	4874.0000	30.15	-17.99	54.00	23.85	150	345	Horizontal
4	4874.0000	42.52	-17.99	74.00	31.48	150	100	Horizontal
5	7311.0000	47.78	-9.74	74.00	26.22	150	94	Horizontal
6	7311.0000	36.38	-9.74	54.00	17.62	150	142	Horizontal
7	17959.8480	46.42	0.71	54.00	7.58	150	292	Horizontal

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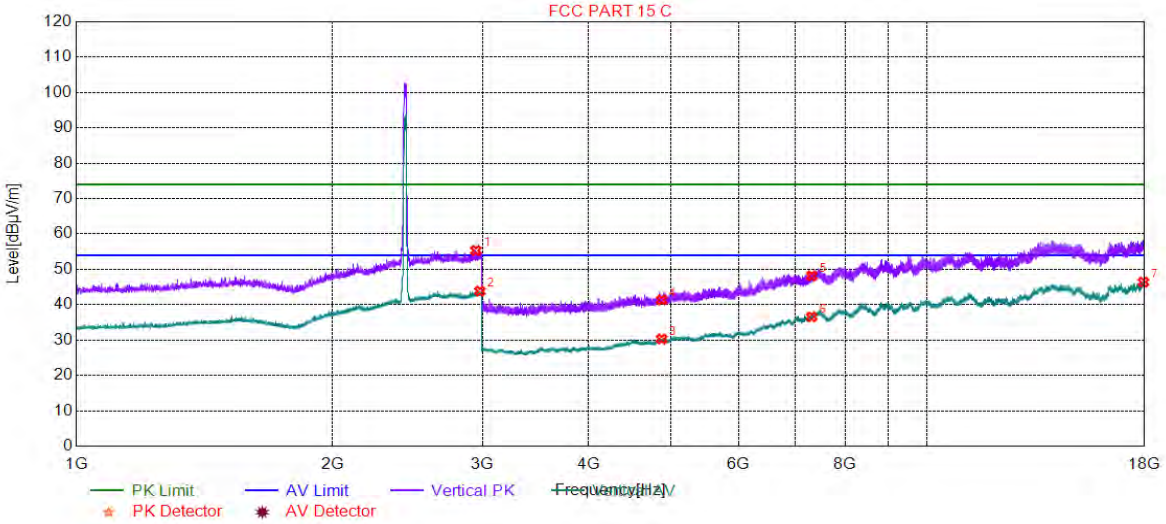
4.9.2.1.16 802.11N20MIMO_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2947.9870	55.33	9.66	74.00	18.67	150	210	Vertical
2	2979.9950	43.84	9.54	54.00	10.16	150	318	Vertical
3	4874.0000	30.31	-17.99	54.00	23.69	150	360	Vertical
4	4874.0000	41.32	-17.99	74.00	32.68	150	182	Vertical
5	7311.0000	48.16	-9.74	74.00	25.84	150	292	Vertical
6	7311.0000	36.57	-9.74	54.00	17.43	150	43	Vertical
7	17943.3472	46.41	0.70	54.00	7.59	150	1	Vertical

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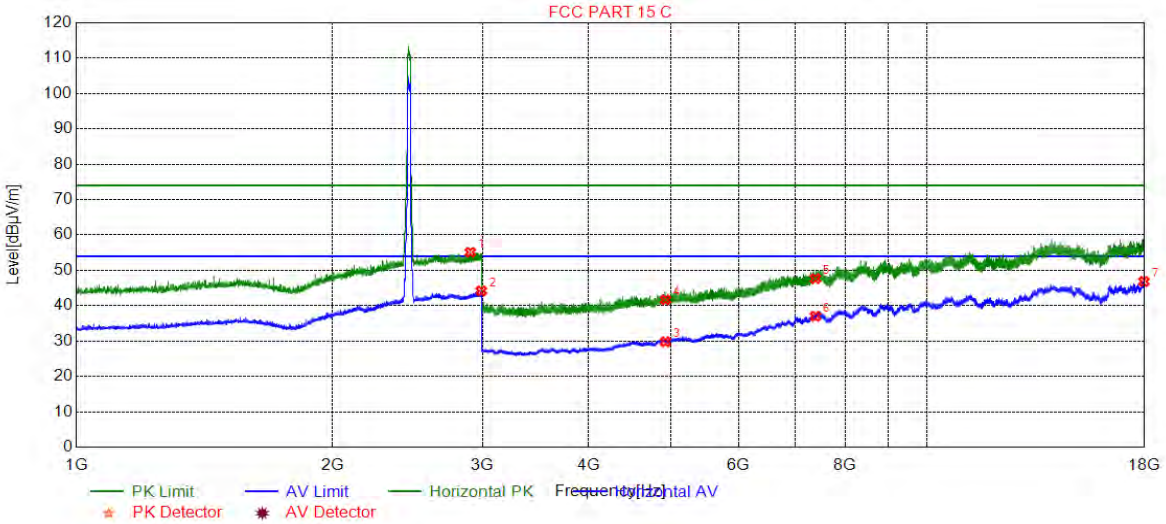
4.9.2.1.17 802.11N20MIMO_Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2903.4759	55.13	9.18	74.00	18.87	150	246	Horizontal
2	2990.9977	44.18	9.49	54.00	9.82	150	97	Horizontal
3	4924.0000	29.80	-17.72	54.00	24.20	150	290	Horizontal
4	4924.0000	41.68	-17.72	74.00	32.32	150	127	Horizontal
5	7386.0000	47.67	-9.55	74.00	26.33	150	44	Horizontal
6	7386.0000	37.00	-9.55	54.00	17.00	150	342	Horizontal
7	17964.7982	46.82	0.71	54.00	7.18	150	44	Horizontal

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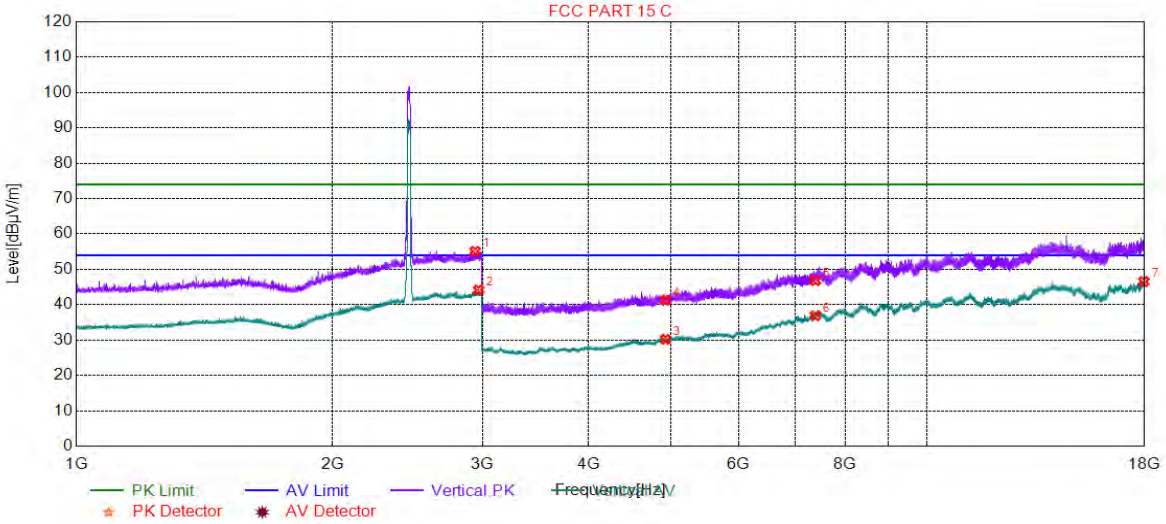
4.9.2.1.18 802.11N20MIMO_Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2940.9852	55.11	9.58	74.00	18.89	150	251	Vertical
2	2969.9925	44.20	9.59	54.00	9.80	150	115	Vertical
3	4924.0000	30.19	-17.72	54.00	23.81	150	181	Vertical
4	4924.0000	41.25	-17.72	74.00	32.75	150	263	Vertical
5	7386.0000	46.81	-9.55	74.00	27.19	150	342	Vertical
6	7386.0000	36.89	-9.55	54.00	17.11	150	31	Vertical
7	17959.8480	46.56	0.71	54.00	7.44	150	238	Vertical

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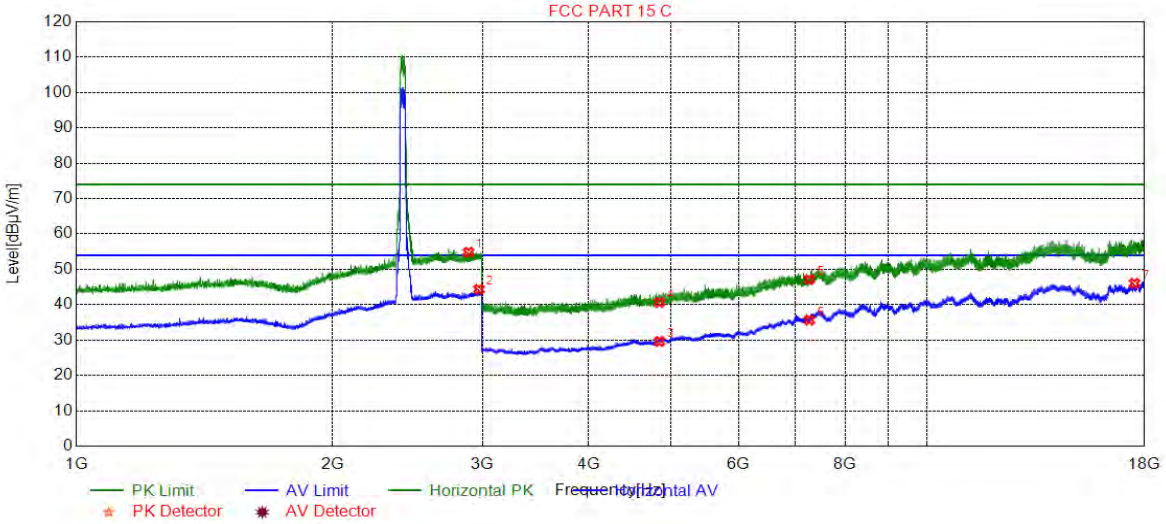
4.9.2.1.19 802.11N40MIMO_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2889.4724	54.83	9.16	74.00	19.17	150	300	Horizontal
2	2972.4931	44.36	9.58	54.00	9.64	150	204	Horizontal
3	4844.0000	29.63	-18.13	54.00	24.37	150	72	Horizontal
4	4844.0000	40.66	-18.13	74.00	33.34	150	357	Horizontal
5	7266.0000	47.11	-9.88	74.00	26.89	150	241	Horizontal
6	7266.0000	35.68	-9.88	54.00	18.32	150	34	Horizontal
7	17515.9758	46.06	0.98	54.00	7.94	150	34	Horizontal

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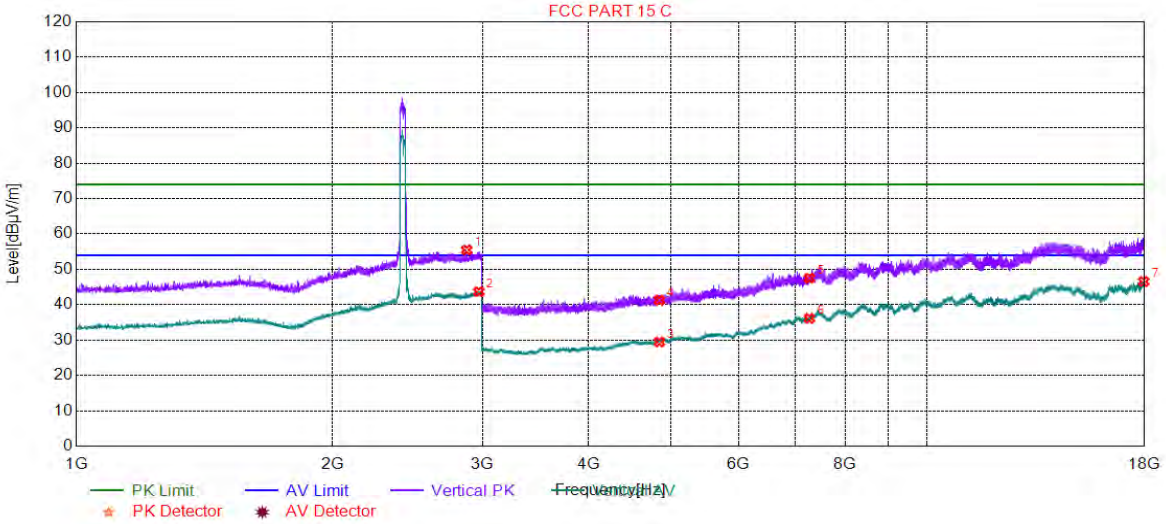
4.9.2.1.20 802.11N40MIMO_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2874.9687	55.49	9.19	74.00	18.51	150	74	Vertical
2	2971.4929	43.69	9.58	54.00	10.31	150	141	Vertical
3	4844.0000	29.49	-18.13	54.00	24.51	150	18	Vertical
4	4844.0000	41.28	-18.13	74.00	32.72	150	46	Vertical
5	7266.0000	47.51	-9.88	74.00	26.49	150	242	Vertical
6	7266.0000	36.13	-9.88	54.00	17.87	150	242	Vertical
7	17955.9978	46.56	0.71	54.00	7.44	150	138	Vertical

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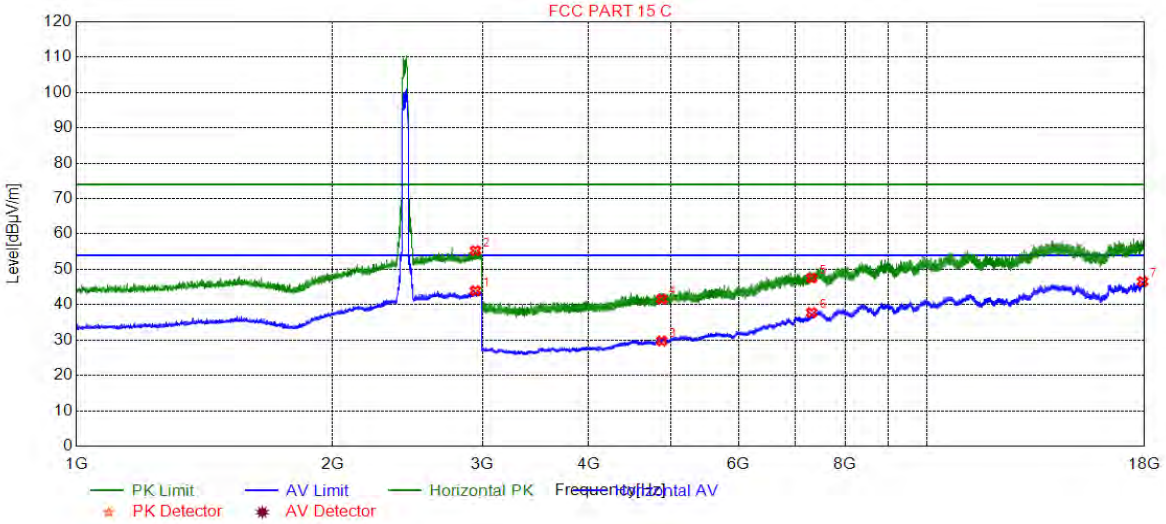
4.9.2.1.21 802.11N40MIMO_Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.9857	43.94	9.60	54.00	10.06	150	68	Horizontal
2	2944.4861	55.31	9.62	74.00	18.69	150	82	Horizontal
3	4874.0000	29.76	-17.99	54.00	24.24	150	18	Horizontal
4	4874.0000	41.60	-17.99	74.00	32.40	150	236	Horizontal
5	7311.0000	47.51	-9.74	74.00	26.49	150	342	Horizontal
6	7311.0000	37.76	-9.74	54.00	16.24	150	143	Horizontal
7	17903.7452	46.56	0.69	54.00	7.44	150	44	Horizontal

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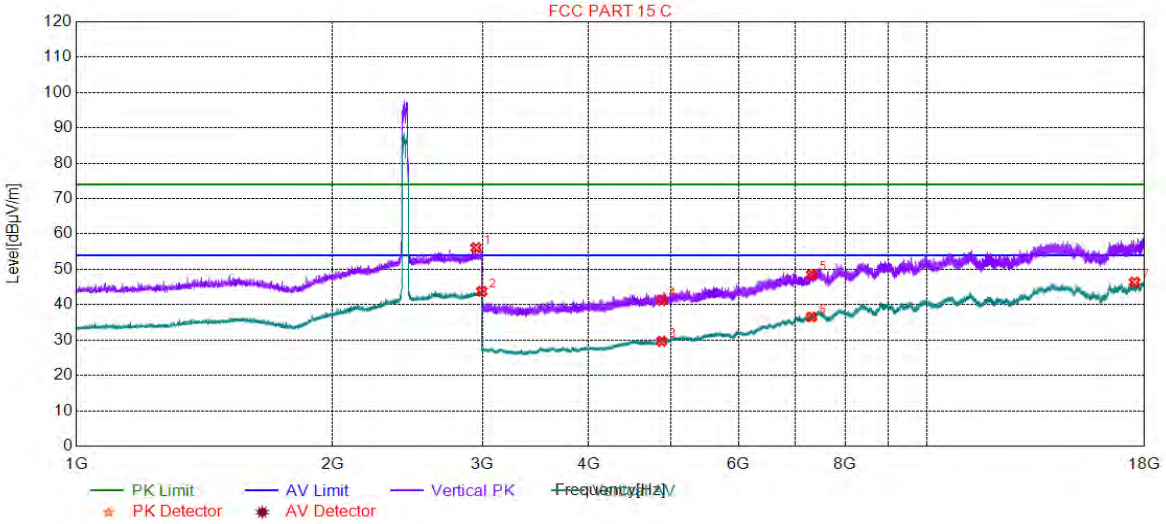
4.9.2.1.22 802.11N40MIMO_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2949.9875	56.12	9.68	74.00	17.88	150	45	Vertical
2	2995.9990	43.79	9.47	54.00	10.21	150	157	Vertical
3	4874.0000	29.67	-17.99	54.00	24.33	150	154	Vertical
4	4874.0000	41.22	-17.99	74.00	32.78	150	45	Vertical
5	7311.0000	48.51	-9.74	74.00	25.49	150	244	Vertical
6	7311.0000	36.55	-9.74	54.00	17.45	150	342	Vertical
7	17517.6259	46.37	0.99	54.00	7.63	150	342	Vertical

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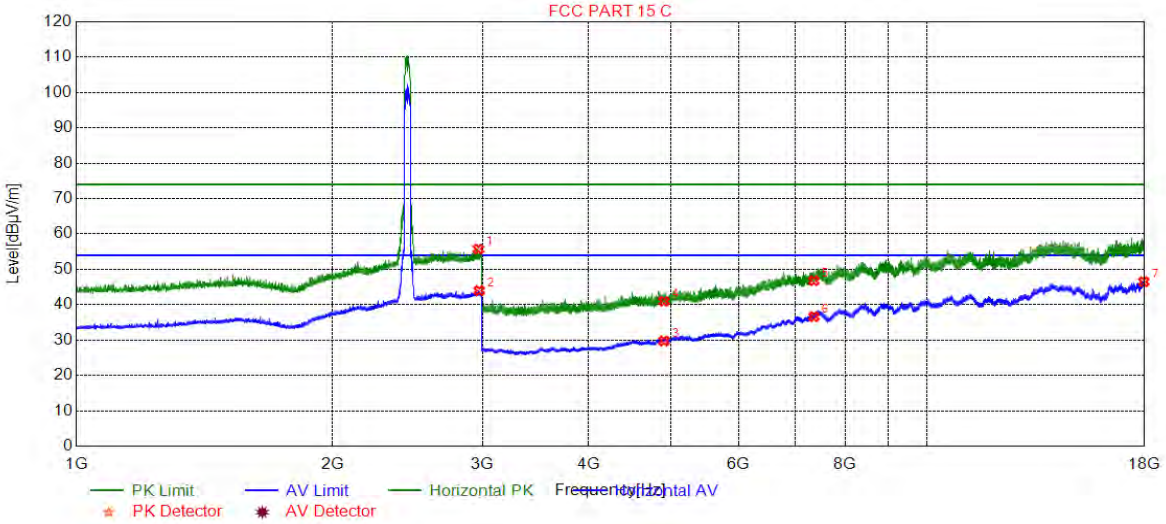
4.9.2.1.23 802.11N40MIMO_Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2967.9920	55.75	9.60	74.00	18.25	150	178	Horizontal
2	2973.9935	43.97	9.57	54.00	10.03	150	2	Horizontal
3	4904.0000	29.74	-17.85	54.00	24.26	150	343	Horizontal
4	4904.0000	40.98	-17.85	74.00	33.02	150	44	Horizontal
5	7356.0000	46.76	-9.62	74.00	27.24	150	94	Horizontal
6	7356.0000	36.62	-9.62	54.00	17.38	150	94	Horizontal
7	17959.2980	46.52	0.71	54.00	7.48	150	45	Horizontal

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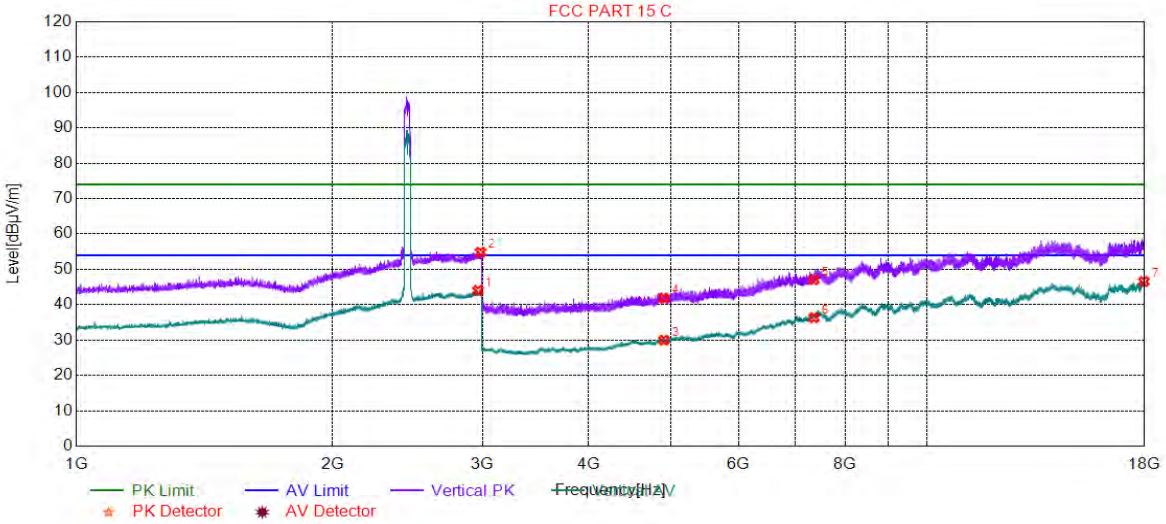
4.9.2.1.24 802.11N40MIMO_Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.4911	44.02	9.61	54.00	9.98	150	170	Vertical
2	2984.9962	54.84	9.52	74.00	19.16	150	60	Vertical
3	4904.0000	29.96	-17.85	54.00	24.04	150	18	Vertical
4	4904.0000	41.87	-17.85	74.00	32.13	150	55	Vertical
5	7356.0000	47.06	-9.62	74.00	26.94	150	193	Vertical
6	7356.0000	36.35	-9.62	54.00	17.65	150	0	Vertical
7	17964.7982	46.56	0.71	54.00	7.44	150	93	Vertical

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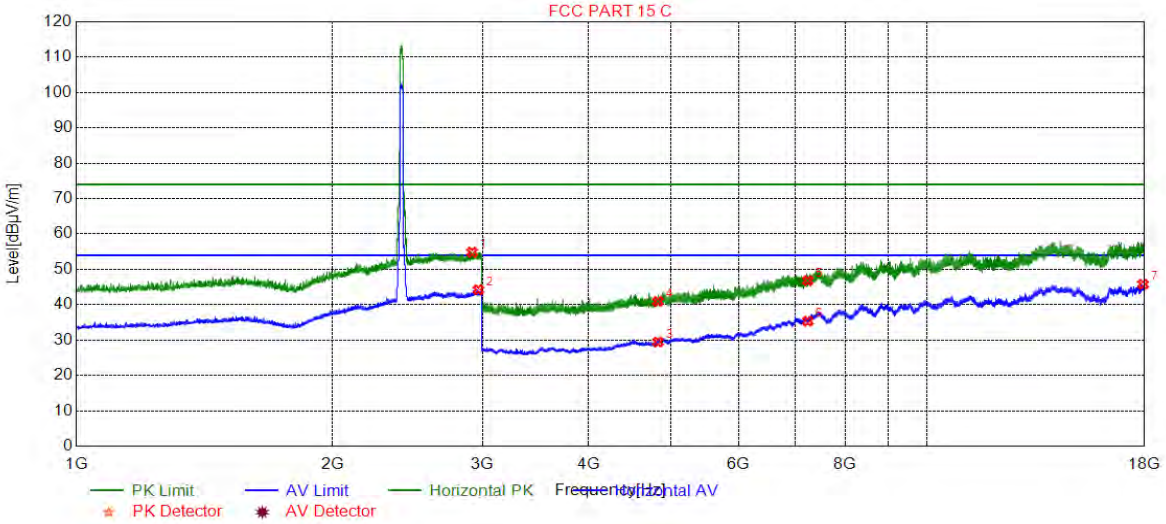
4.9.2.1.25 802.11AX20MIMO_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2917.4794	54.85	9.33	74.00	19.15	150	18	Horizontal
2	2967.4919	44.22	9.60	54.00	9.78	150	32	Horizontal
3	4824.0000	29.46	-18.21	54.00	24.54	150	94	Horizontal
4	4824.0000	40.92	-18.21	74.00	33.08	150	12	Horizontal
5	7236.0000	46.79	-9.99	74.00	27.21	150	169	Horizontal
6	7236.0000	35.35	-9.99	54.00	18.65	150	119	Horizontal
7	17920.246	45.78	0.70	54.00	8.22	150	18	Horizontal

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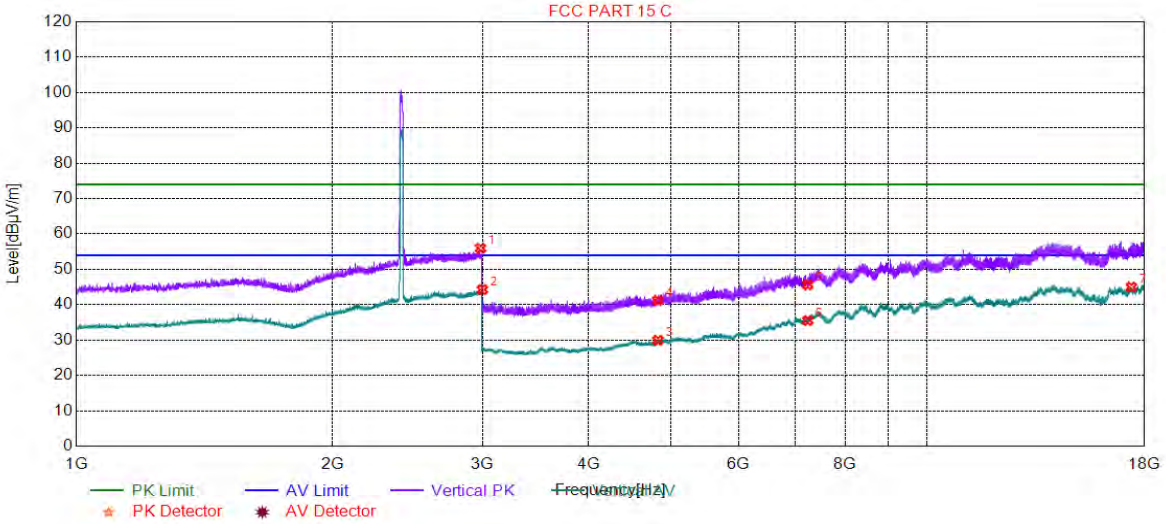
4.9.2.1.26 802.11AX20MIMO_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2984.9962	55.97	9.52	74.00	18.03	150	81	Vertical
2	3000.0000	44.27	9.45	54.00	9.73	150	9	Vertical
3	4824.0000	29.93	-18.21	54.00	24.07	150	41	Vertical
4	4824.0000	41.20	-18.21	74.00	32.80	150	123	Vertical
5	7236.0000	45.62	-9.99	74.00	28.38	150	360	Vertical
6	7236.0000	35.52	-9.99	54.00	18.48	150	168	Vertical
7	17366.368	44.99	0.12	54.00	9.01	150	319	Vertical

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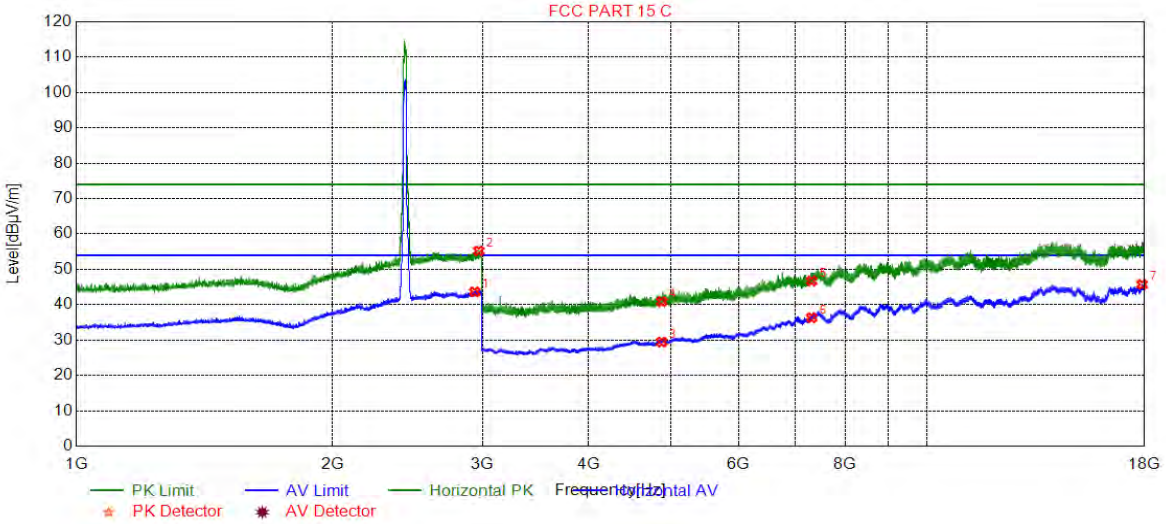
4.9.2.1.27 802.11AX20MIMO_Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.9845	43.64	9.55	54.00	10.36	150	238	Horizontal
2	2970.9927	55.23	9.58	74.00	18.77	150	114	Horizontal
3	4874.0000	29.44	-17.99	54.00	24.56	150	314	Horizontal
4	4874.0000	40.86	-17.99	74.00	33.14	150	95	Horizontal
5	7311.0000	46.71	-9.74	74.00	27.29	150	68	Horizontal
6	7311.0000	36.32	-9.74	54.00	17.68	150	268	Horizontal
7	17875.693	45.72	0.37	54.00	8.28	150	268	Horizontal

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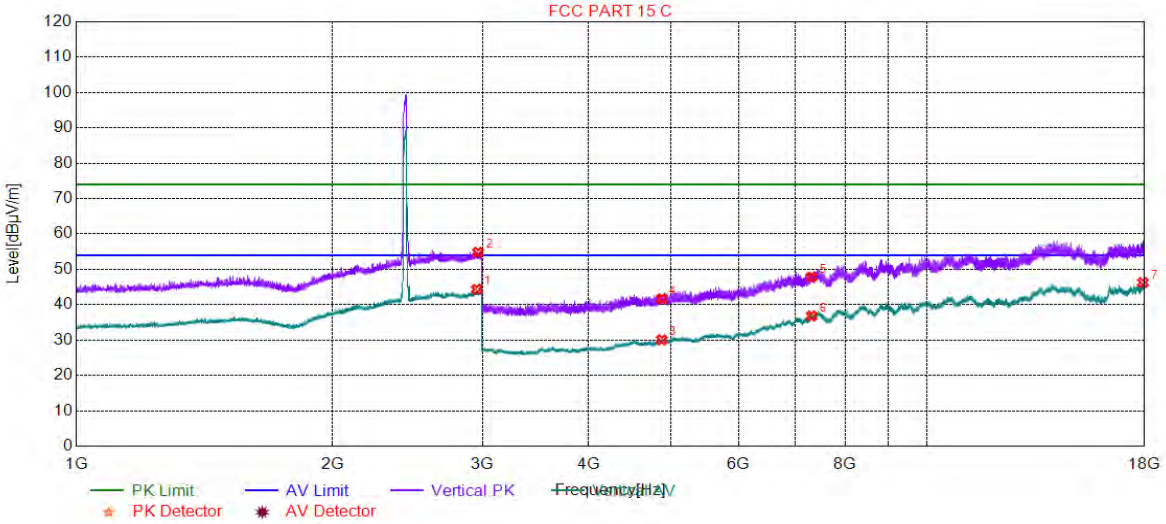
4.9.2.1.28 802.11AX20MIMO_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.4886	44.35	9.66	54.00	9.65	150	342	Vertical
2	2964.9912	54.81	9.61	74.00	19.19	150	247	Vertical
3	4874.0000	30.07	-17.99	54.00	23.93	150	150	Vertical
4	4874.0000	41.69	-17.99	74.00	32.31	150	95	Vertical
5	7311.0000	47.87	-9.74	74.00	26.13	150	268	Vertical
6	7311.0000	36.81	-9.74	54.00	17.19	150	360	Vertical
7	17917.495	46.25	0.70	54.00	7.75	150	268	Vertical

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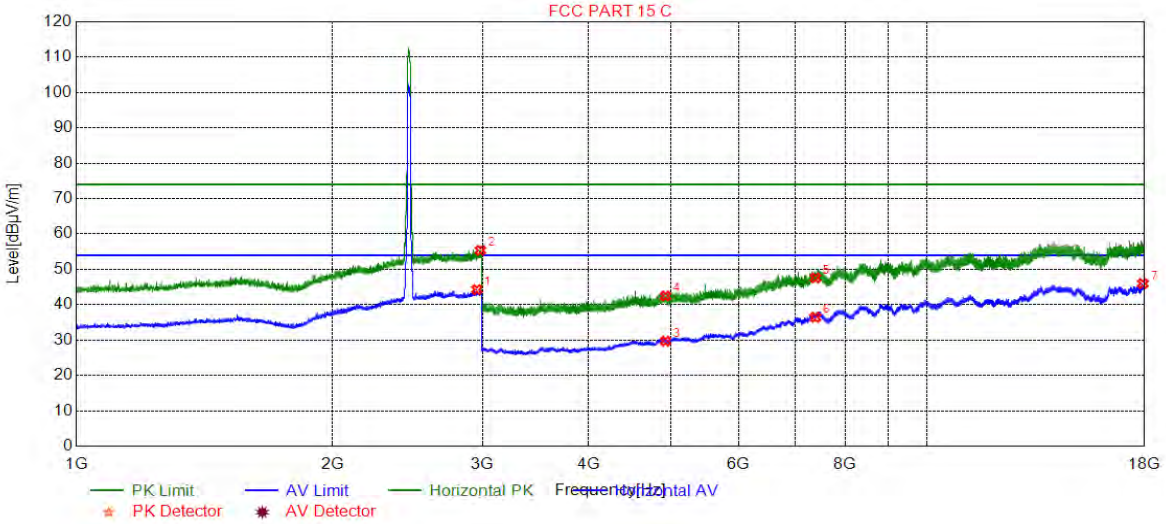
4.9.2.1.29 802.11AX20MIMO_Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.4889	44.29	9.65	54.00	9.71	150	281	Horizontal
2	2983.9960	55.38	9.52	74.00	18.62	150	253	Horizontal
3	4924.0000	29.69	-17.72	54.00	24.31	150	233	Horizontal
4	4924.0000	42.47	-17.72	74.00	31.53	150	342	Horizontal
5	7386.0000	47.58	-9.55	74.00	26.42	150	320	Horizontal
6	7386.0000	36.44	-9.55	54.00	17.56	150	169	Horizontal
7	17910.895	45.98	0.69	54.00	8.02	150	220	Horizontal

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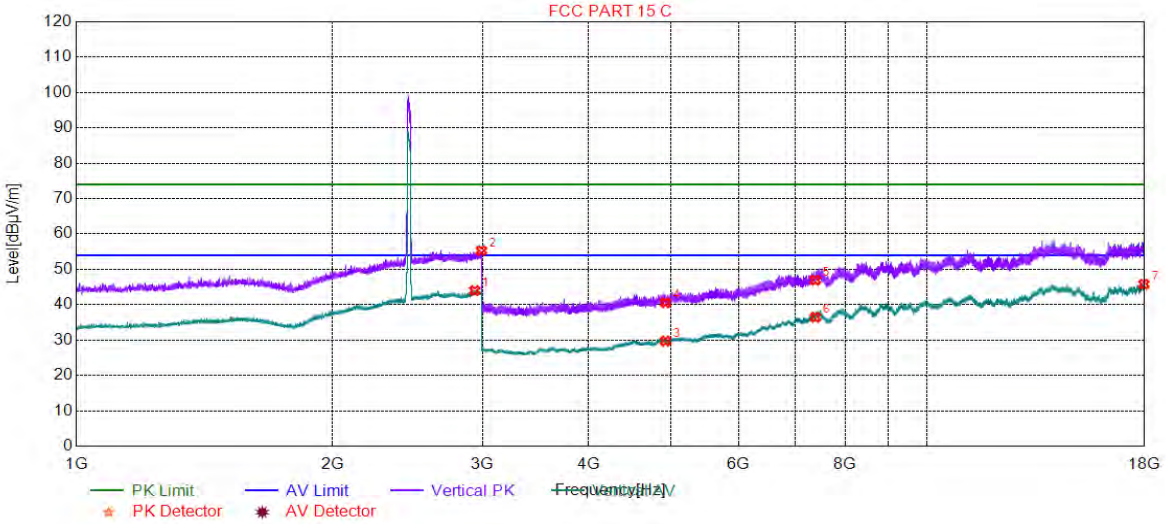
4.9.2.1.30 802.11AX20MIMO_Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.9845	44.00	9.55	54.00	10.00	150	54	Vertical
2	2991.9980	55.31	9.49	74.00	18.69	150	68	Vertical
3	4924.0000	29.73	-17.72	54.00	24.27	150	42	Vertical
4	4924.0000	40.57	-17.72	74.00	33.43	150	342	Vertical
5	7386.0000	46.94	-9.55	74.00	27.06	150	360	Vertical
6	7386.0000	36.46	-9.55	54.00	17.54	150	18	Vertical
7	17964.798	45.79	0.71	54.00	8.21	150	169	Vertical

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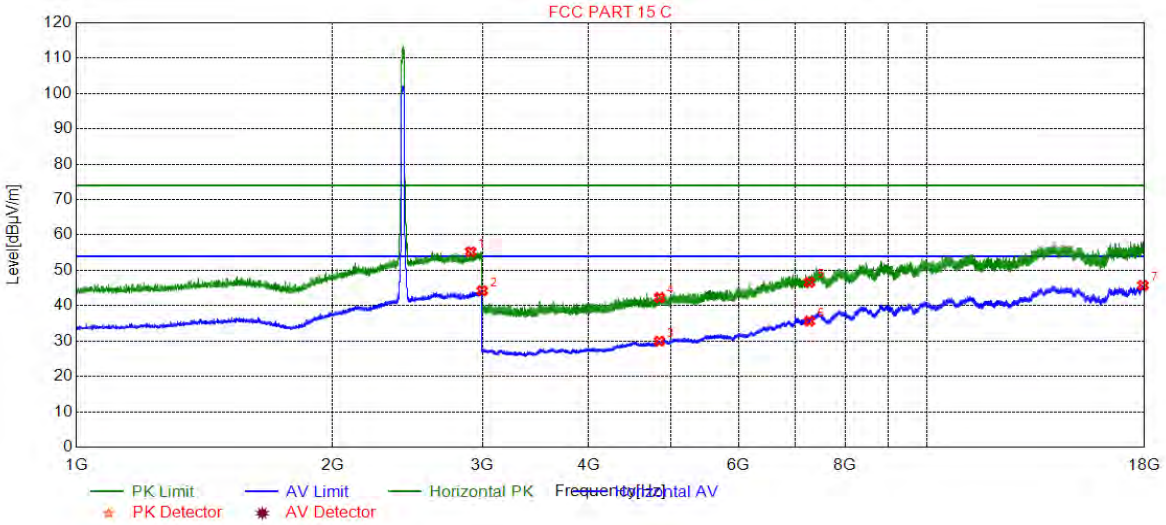
4.9.2.1.31 802.11AX40MIMO_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2906.4766	55.29	9.21	74.00	18.71	150	358	Horizontal
2	2998.4996	44.22	9.46	54.00	9.78	150	142	Horizontal
3	4844.0000	29.98	-18.13	54.00	24.02	150	39	Horizontal
4	4844.0000	42.29	-18.13	74.00	31.71	150	259	Horizontal
5	7266.0000	46.60	-9.88	74.00	27.40	150	118	Horizontal
6	7266.0000	35.66	-9.88	54.00	18.34	150	270	Horizontal
7	17920.246	45.74	0.70	54.00	8.26	150	270	Horizontal

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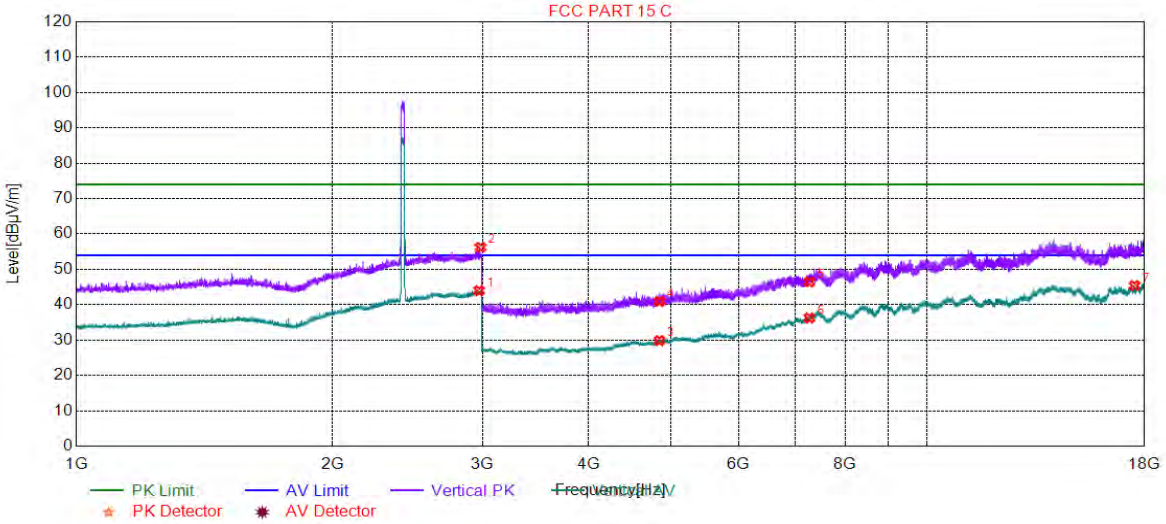
4.9.2.1.32 802.11AX40MIMO_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.4934	43.98	9.57	54.00	10.02	150	18	Vertical
2	2985.4964	56.24	9.52	74.00	17.76	150	252	Vertical
3	4844.0000	29.85	-18.13	54.00	24.15	150	40	Vertical
4	4844.0000	40.93	-18.13	74.00	33.07	150	14	Vertical
5	7266.0000	46.43	-9.88	74.00	27.57	150	269	Vertical
6	7266.0000	36.26	-9.88	54.00	17.74	150	118	Vertical
7	17516.525	45.42	0.98	54.00	8.58	150	360	Vertical

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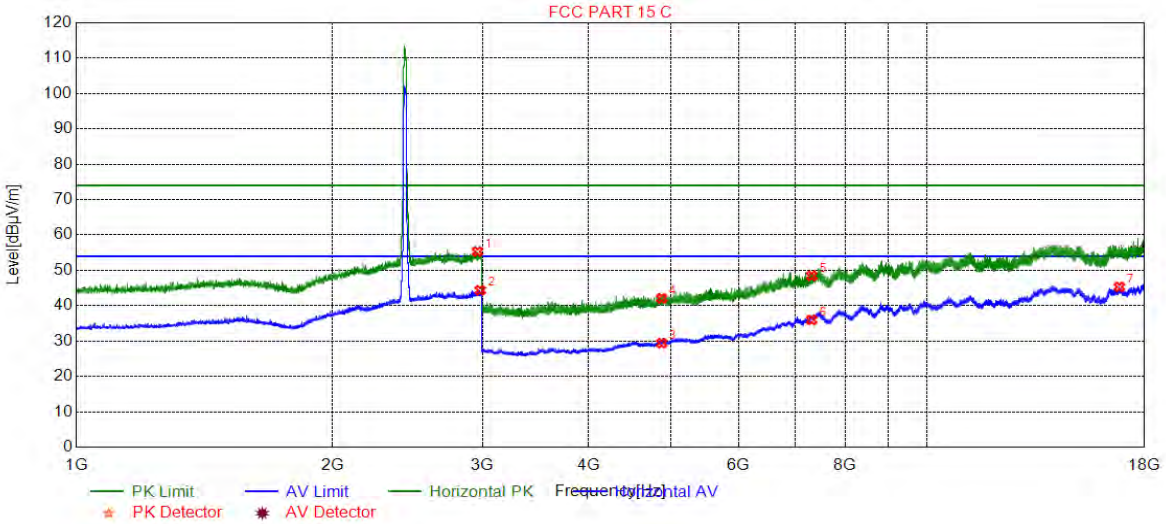
4.9.2.1.33 802.11AX40MIMO_Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.4901	55.32	9.63	74.00	18.68	150	54	Horizontal
2	2982.9957	44.36	9.53	54.00	9.64	150	150	Horizontal
3	4874.0000	29.40	-17.99	54.00	24.60	150	68	Horizontal
4	4874.0000	42.09	-17.99	74.00	31.91	150	205	Horizontal
5	7311.0000	48.44	-9.74	74.00	25.56	150	119	Horizontal
6	7311.0000	35.97	-9.74	54.00	18.03	150	270	Horizontal
7	16811.390	45.32	0.90	54.00	8.68	150	170	Horizontal

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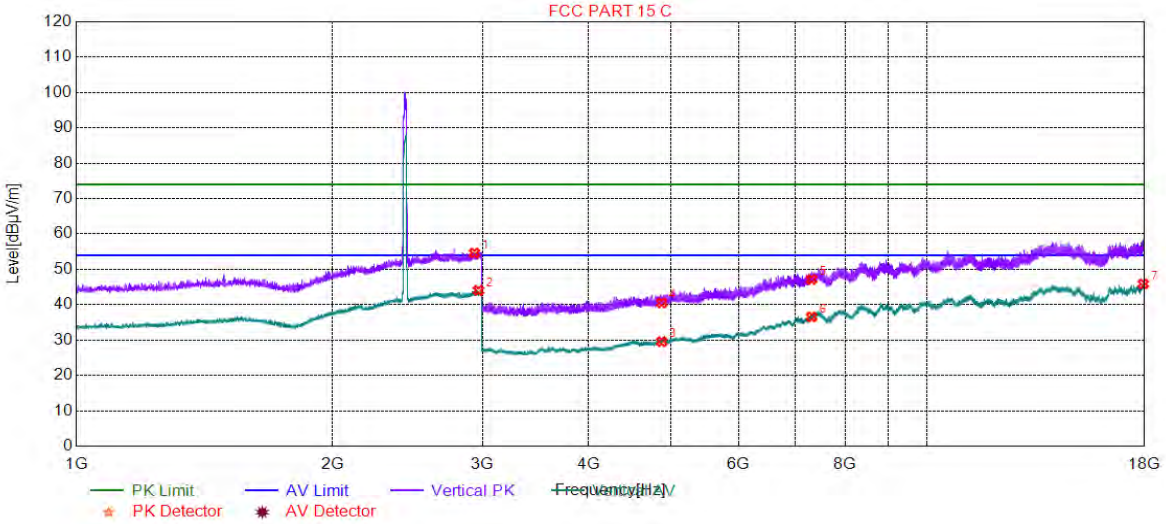
4.9.2.1.34 802.11AX40MIMO_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2936.4841	54.63	9.53	74.00	19.37	150	224	Vertical
2	2968.4921	44.03	9.59	54.00	9.97	150	18	Vertical
3	4874.0000	29.56	-17.99	54.00	24.44	150	315	Vertical
4	4874.0000	40.53	-17.99	74.00	33.47	150	180	Vertical
5	7311.0000	47.15	-9.74	74.00	26.85	150	360	Vertical
6	7311.0000	36.55	-9.74	54.00	17.45	150	170	Vertical
7	17935.096	45.90	0.70	54.00	8.10	150	170	Vertical

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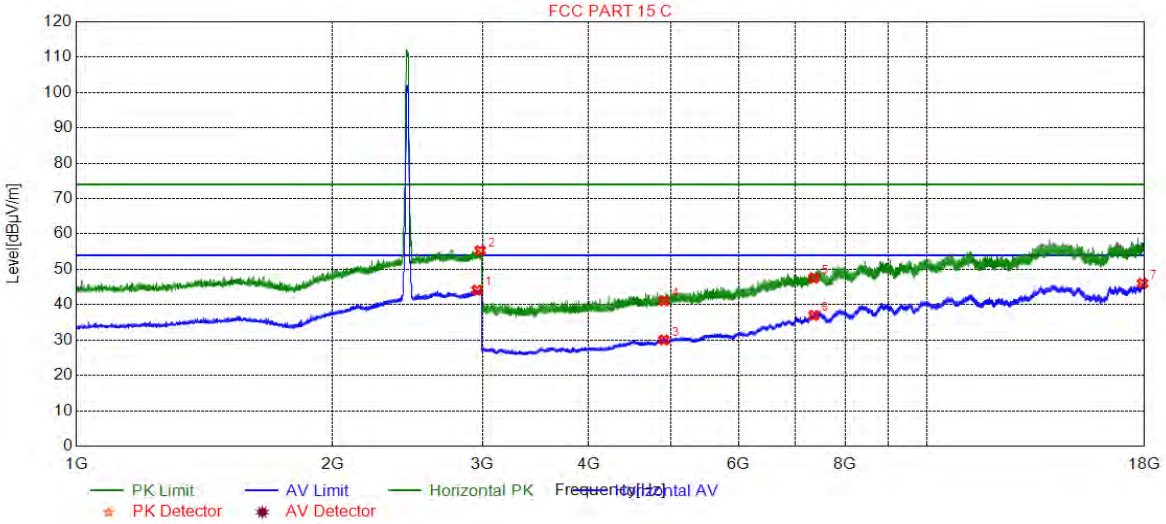
4.9.2.1.35 802.11AX40MIMO_Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2956.9892	44.12	9.65	54.00	9.88	150	287	Horizontal
2	2981.9955	55.31	9.53	74.00	18.69	150	329	Horizontal
3	4904.0000	30.05	-17.85	54.00	23.95	150	342	Horizontal
4	4904.0000	41.09	-17.85	74.00	32.91	150	288	Horizontal
5	7356.0000	47.50	-9.62	74.00	26.50	150	68	Horizontal
6	7356.0000	36.98	-9.62	54.00	17.02	150	18	Horizontal
7	17899.345	46.04	0.68	54.00	7.96	150	318	Horizontal

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