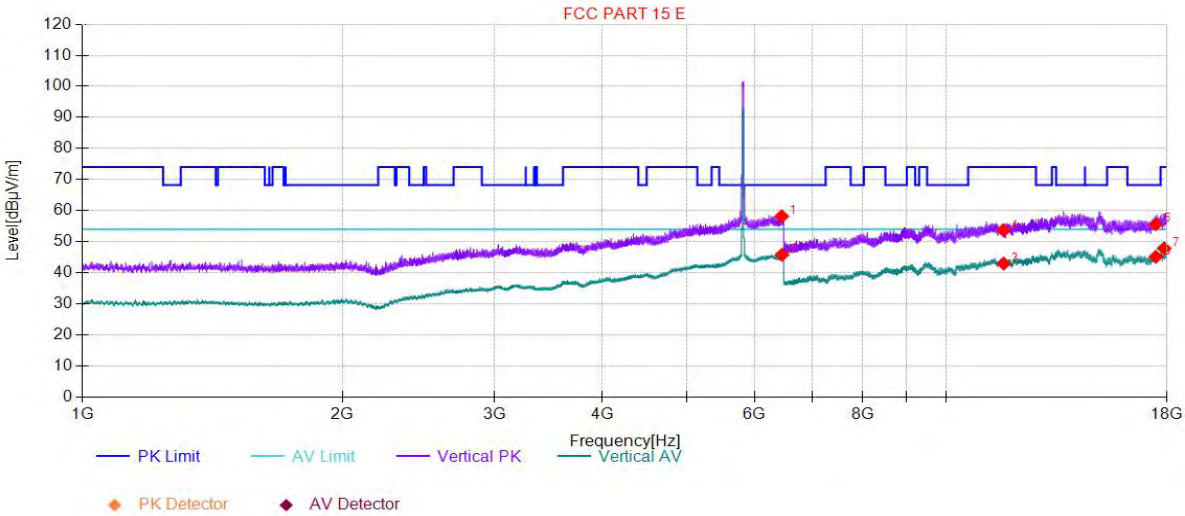
4.9.2.90 802.11AC20_Channel 165 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6449.396	58.16	18.43	68.20	10.04	150	Vertical
2	6452.330	45.75	18.45	54.00	8.25	150	Vertical
3	11650.00	42.94	2.58	54.00	11.06	150	Vertical
4	11650.00	53.67	2.58	74.00	20.33	150	Vertical
5	17475.00	55.60	7.42	68.20	12.60	150	Vertical
6	17475.00	45.12	7.42	54.00	8.88	150	Vertical
7	17873.95	47.82	8.62	54.00	6.18	150	Vertical

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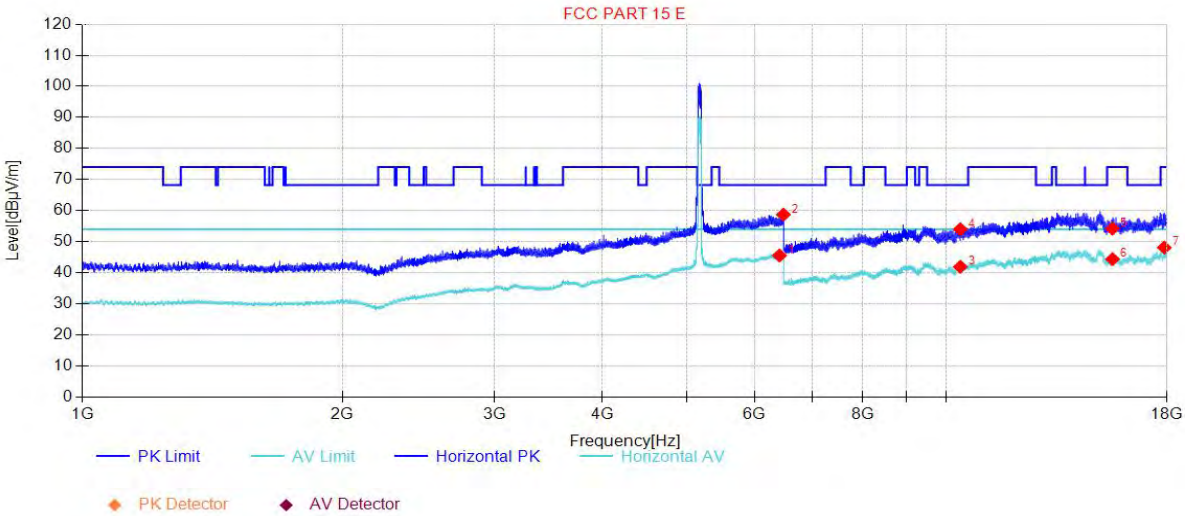
4.9.2.91 802.11AC40_Channel 38 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6410.527	45.55	18.22	54.00	8.45	150	Horizontal
2	6478.731	58.69	18.60	68.20	9.51	150	Horizontal
3	10380.00	41.89	2.40	54.00	12.11	150	Horizontal
4	10380.00	53.97	2.40	68.20	14.23	150	Horizontal
5	15570.00	54.18	6.00	74.00	19.82	150	Horizontal
6	15570.00	44.35	6.00	54.00	9.65	150	Horizontal
7	17876.71	48.08	8.64	54.00	5.92	150	Horizontal

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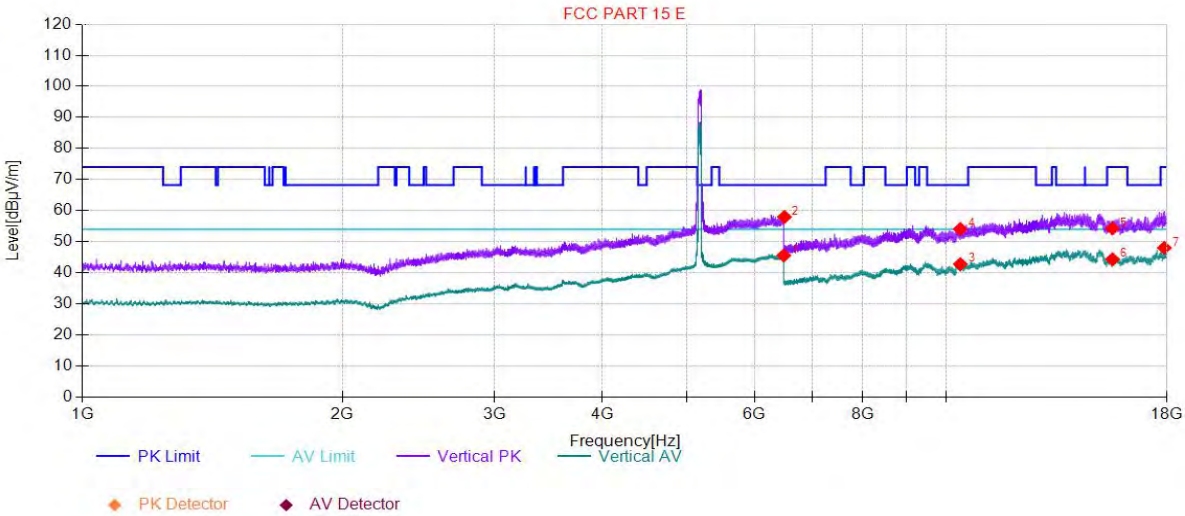
4.9.2.92 802.11AC40_Channel 38 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6485.332	45.54	18.63	54.00	8.46	150	Vertical
2	6496.333	57.97	18.69	68.20	10.23	150	Vertical
3	10380.00	42.75	2.40	54.00	11.25	150	Vertical
4	10380.00	54.07	2.40	68.20	14.13	150	Vertical
5	15570.00	54.27	6.00	74.00	19.73	150	Vertical
6	15570.00	44.31	6.00	54.00	9.69	150	Vertical
7	17883.15	47.99	8.69	54.00	6.01	150	Vertical

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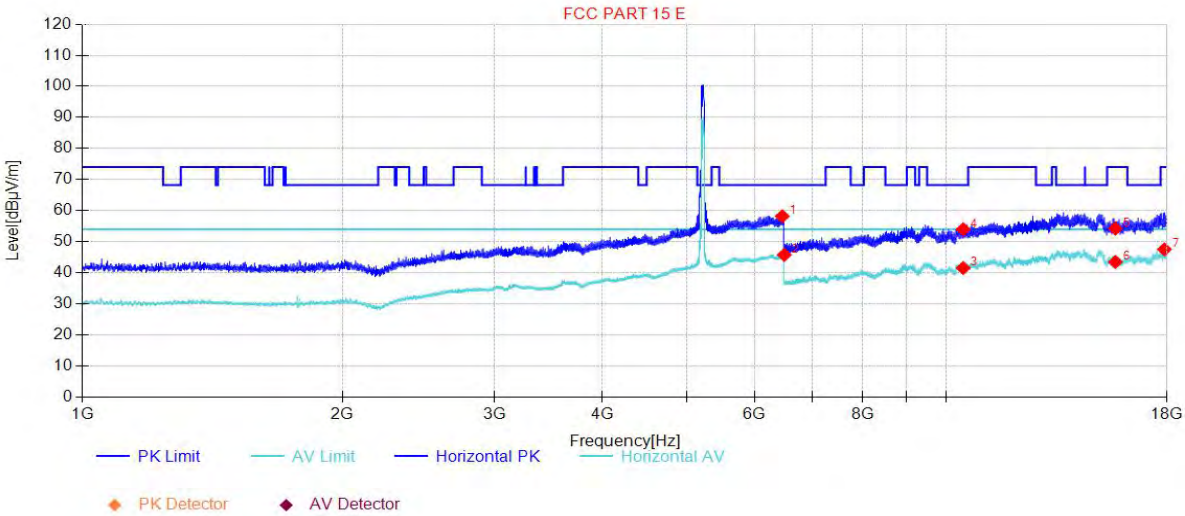
4.9.2.93 802.11AC40_Channel 46 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6458.197	58.17	18.48	68.20	10.03	150	Horizontal
2	6493.399	45.75	18.68	54.00	8.25	150	Horizontal
3	10460.00	41.50	2.47	54.00	12.50	150	Horizontal
4	10460.00	53.97	2.47	68.20	14.23	150	Horizontal
5	15690.00	54.21	6.13	74.00	19.79	150	Horizontal
6	15690.00	43.45	6.13	54.00	10.55	150	Horizontal
7	17882.69	47.51	8.69	54.00	6.49	150	Horizontal

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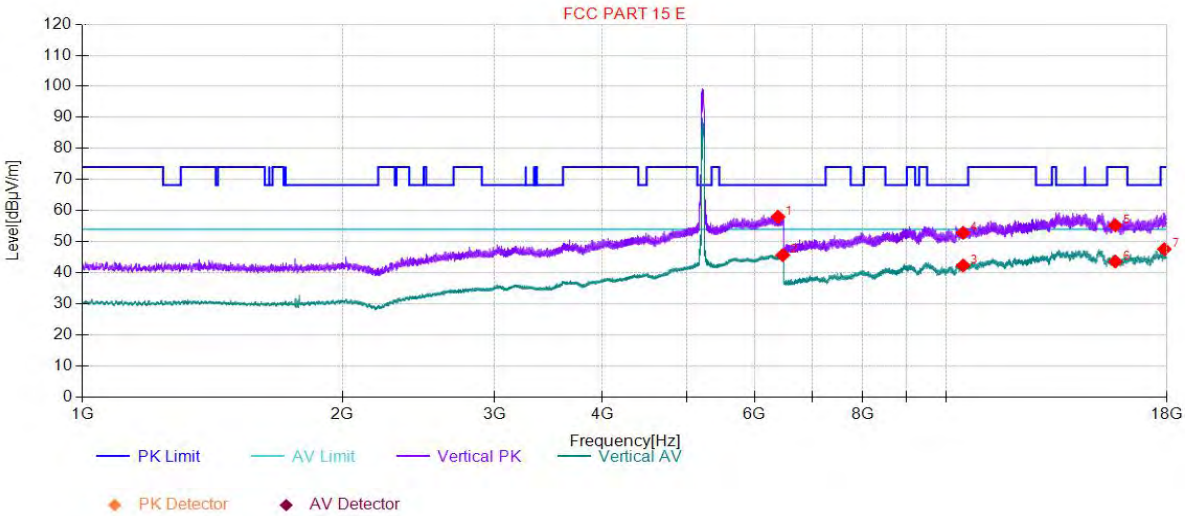
4.9.2.94 802.11AC40_Channel 46 MIMO



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	6385.592	57.99	18.21	68.20	10.21	150	Vertical
2	6465.897	45.66	18.53	54.00	8.34	150	Vertical
3	10460.00	42.32	2.47	54.00	11.68	150	Vertical
4	10460.00	52.83	2.47	68.20	15.37	150	Vertical
5	15690.00	55.25	6.13	74.00	18.75	150	Vertical
6	15690.00	43.57	6.13	54.00	10.43	150	Vertical
7	17879.01	47.58	8.66	54.00	6.42	150	Vertical

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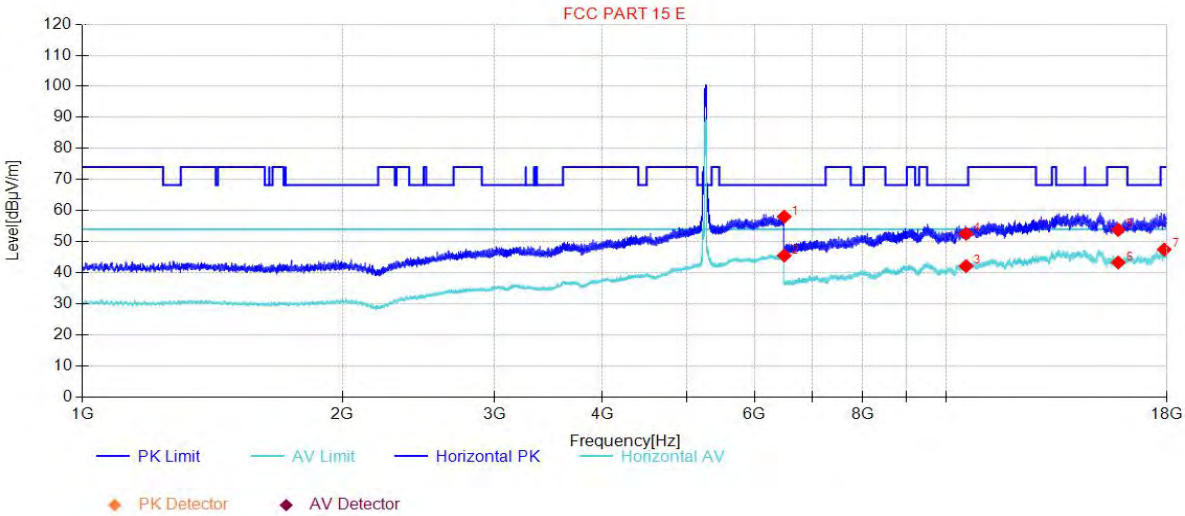
4.9.2.95 802.11AC40_Channel 54 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6491.199	58.04	18.67	68.20	10.16	150	Horizontal
2	6492.299	45.53	18.67	54.00	8.47	150	Horizontal
3	10540.00	42.13	2.39	54.00	11.87	150	Horizontal
4	10540.00	52.52	2.39	68.20	15.68	150	Horizontal
5	15810.00	53.76	5.12	74.00	20.24	150	Horizontal
6	15810.00	43.28	5.12	54.00	10.72	150	Horizontal
7	17871.65	47.47	8.60	54.00	6.53	150	Horizontal

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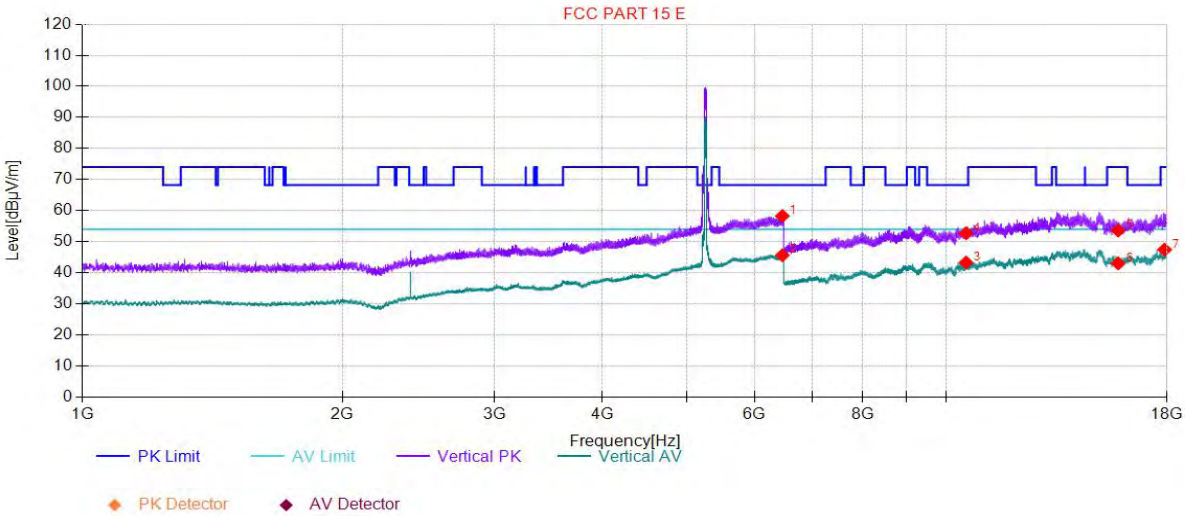
4.9.2.96 802.11AC40_Channel 54 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6459.664	58.24	18.49	68.20	9.96	150	Vertical
2	6459.664	45.60	18.49	54.00	8.40	150	Vertical
3	10540.00	43.24	2.39	54.00	10.76	150	Vertical
4	10540.00	52.70	2.39	68.20	15.50	150	Vertical
5	15810.00	53.56	5.12	74.00	20.44	150	Vertical
6	15810.00	43.00	5.12	54.00	11.00	150	Vertical
7	17892.35	47.42	8.77	54.00	6.58	150	Vertical

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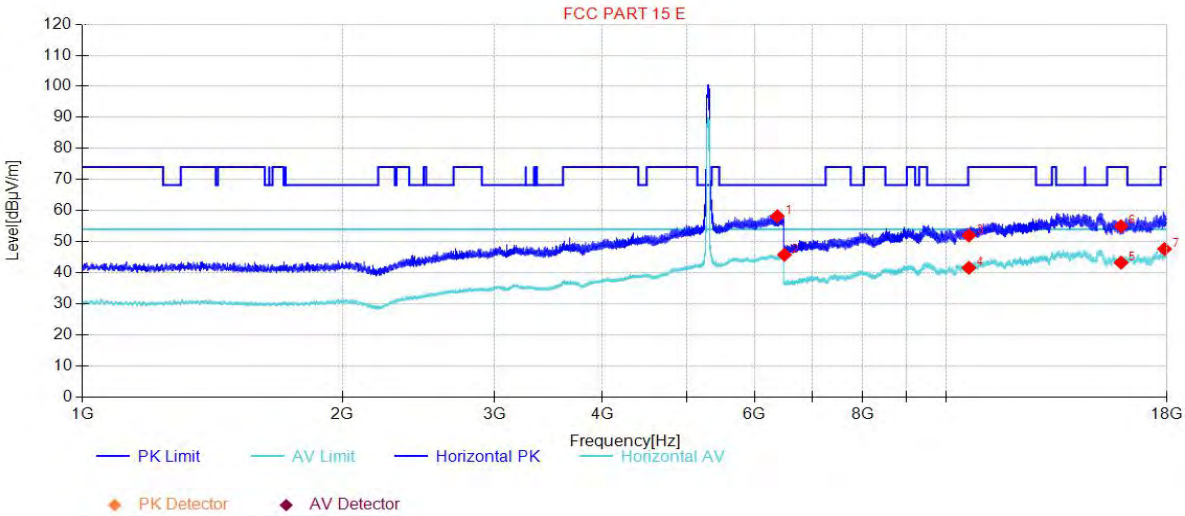
4.9.2.97 802.11AC40_Channel 62 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6373.124	58.18	18.25	68.20	10.02	150	Horizontal
2	6495.599	45.77	18.69	54.00	8.23	150	Horizontal
3	10620.00	51.99	2.23	74.00	22.01	150	Horizontal
4	10620.00	41.57	2.23	54.00	12.43	150	Horizontal
5	15930.00	43.23	5.15	54.00	10.77	150	Horizontal
6	15930.00	54.97	5.15	74.00	19.03	150	Horizontal
7	17886.37	47.63	8.72	54.00	6.37	150	Horizontal

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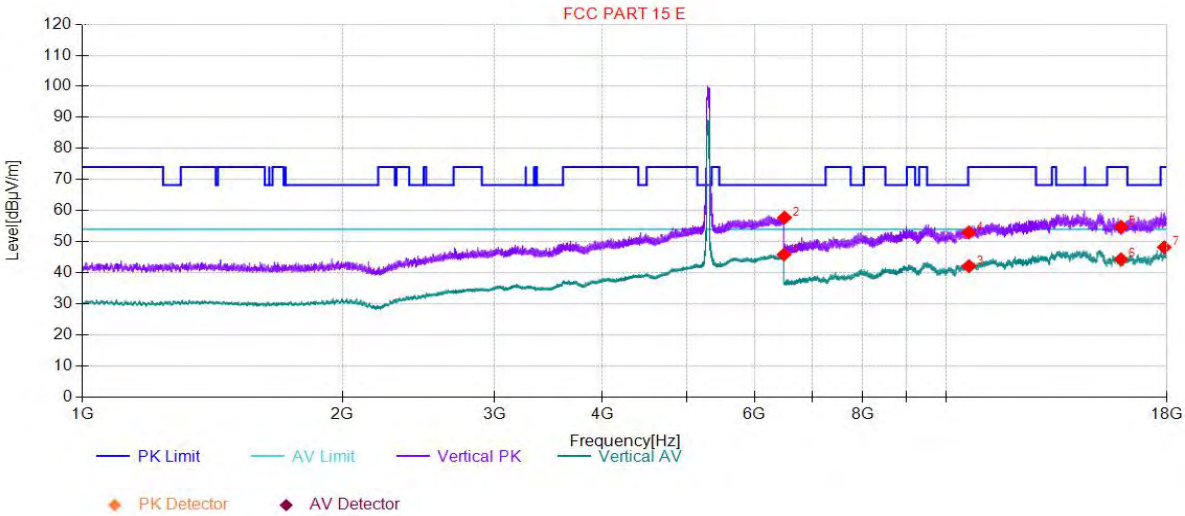
4.9.2.98 802.11AC40_Channel 62 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6488.632	45.87	18.65	54.00	8.13	150	Vertical
2	6497.799	57.74	18.70	68.20	10.46	150	Vertical
3	10620.00	42.09	2.23	54.00	11.91	150	Vertical
4	10620.00	52.94	2.23	74.00	21.06	150	Vertical
5	15930.00	54.78	5.15	74.00	19.22	150	Vertical
6	15930.00	44.31	5.15	54.00	9.69	150	Vertical
7	17876.25	48.17	8.64	54.00	5.83	150	Vertical

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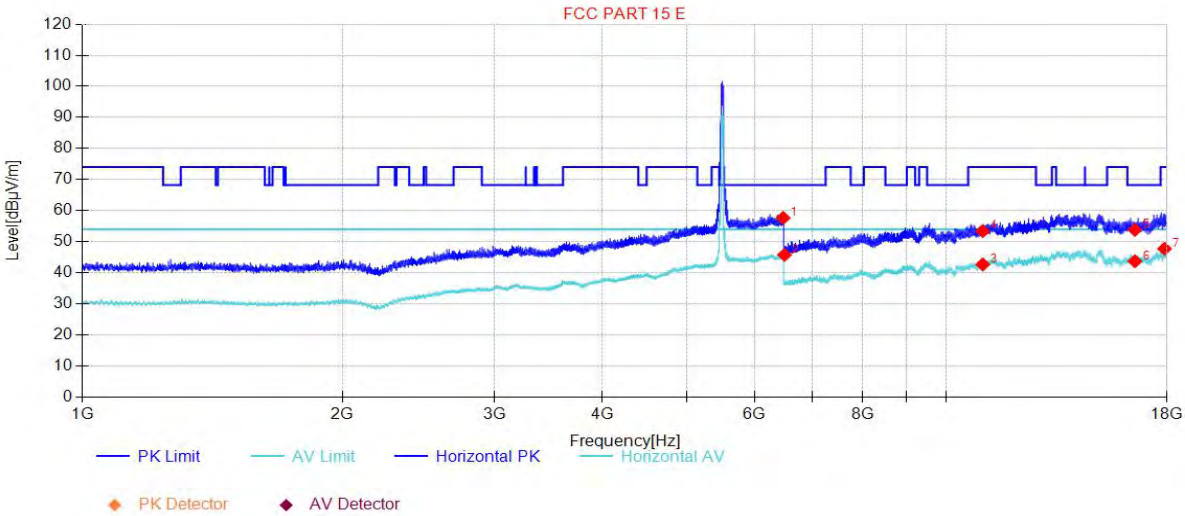
4.9.2.99 802.11AC40_Channel 102 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6473.231	57.64	18.57	68.20	10.56	150	Horizontal
2	6496.333	45.74	18.69	54.00	8.26	150	Horizontal
3	11020.00	42.64	2.69	54.00	11.36	150	Horizontal
4	11020.00	53.40	2.69	74.00	20.60	150	Horizontal
5	16530.00	53.79	5.27	68.20	14.41	150	Horizontal
6	16530.00	43.66	5.27	54.00	10.34	150	Horizontal
7	17888.21	47.69	8.74	54.00	6.31	150	Horizontal

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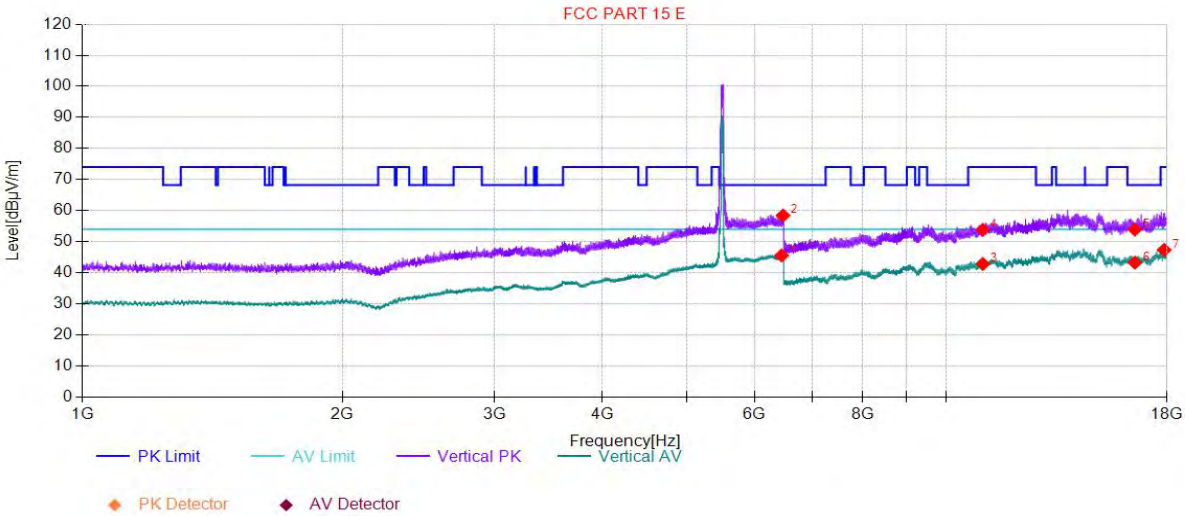
4.9.2.100 802.11AC40_Channel 102 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6446.463	45.55	18.42	54.00	8.45	150	Vertical
2	6471.398	58.42	18.56	68.20	9.78	150	Vertical
3	11020.00	42.80	2.69	54.00	11.20	150	Vertical
4	11020.00	53.78	2.69	74.00	20.22	150	Vertical
5	16530.00	53.90	5.27	68.20	14.30	150	Vertical
6	16530.00	43.23	5.27	54.00	10.77	150	Vertical
7	17868.43	47.32	8.57	54.00	6.68	150	Vertical

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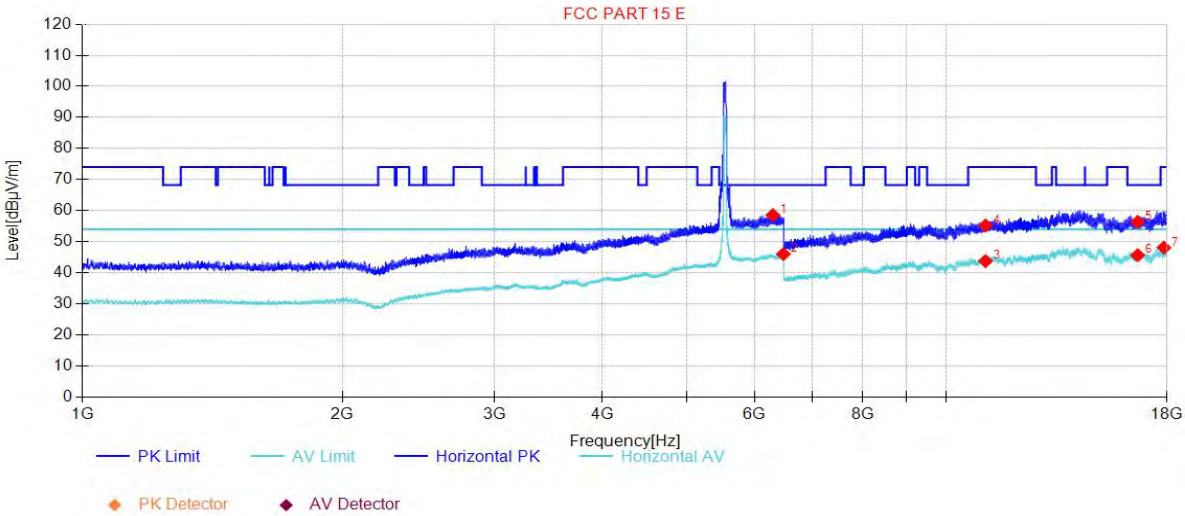
4.9.2.101 802.11AC40_Channel 110 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6298.319	58.52	18.48	68.20	9.68	150	Horizontal
2	6477.998	45.99	18.59	54.00	8.01	150	Horizontal
3	11100.00	43.73	2.49	54.00	10.27	150	Horizontal
4	11100.00	55.17	2.49	74.00	18.83	150	Horizontal
5	16650.00	56.36	5.74	68.20	11.84	150	Horizontal
6	16650.00	45.63	5.74	54.00	8.37	150	Horizontal
7	17855.55	48.05	8.47	54.00	5.95	150	Horizontal

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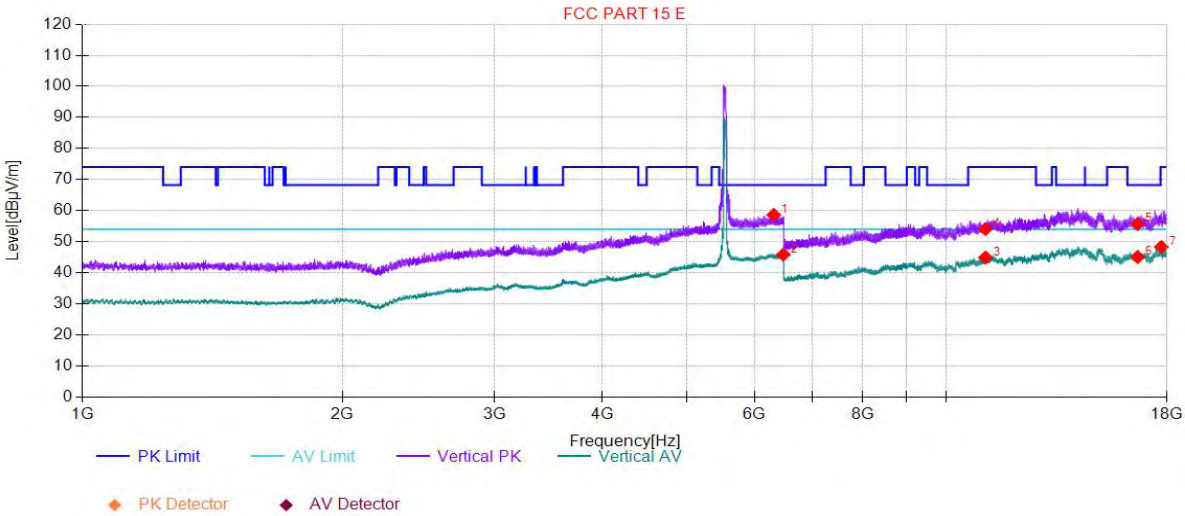
4.9.2.102 802.11AC40_Channel 110 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6314.087	58.60	18.44	68.20	9.60	150	Vertical
2	6476.165	45.81	18.58	54.00	8.19	150	Vertical
3	11100.00	44.88	2.49	54.00	9.12	150	Vertical
4	11100.00	54.05	2.49	74.00	19.95	150	Vertical
5	16650.00	55.64	5.74	68.20	12.56	150	Vertical
6	16650.00	45.07	5.74	54.00	8.93	150	Vertical
7	17737.32	48.29	7.73	54.00	5.71	150	Vertical

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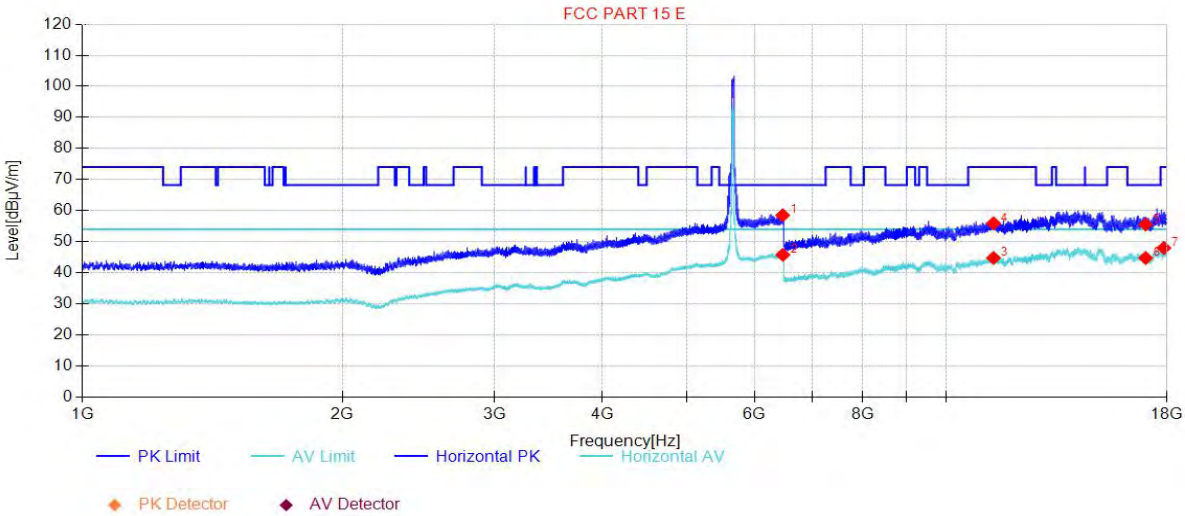
4.9.2.103 802.11AC40_Channel 134 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6465.897	58.48	18.53	68.20	9.72	150	Horizontal
2	6468.097	45.77	18.54	54.00	8.23	150	Horizontal
3	11340.00	44.74	2.55	54.00	9.26	150	Horizontal
4	11340.00	55.88	2.55	74.00	18.12	150	Horizontal
5	17010.00	55.50	6.16	68.20	12.70	150	Horizontal
6	17010.00	44.72	6.16	54.00	9.28	150	Horizontal
7	17854.63	47.95	8.46	54.00	6.05	150	Horizontal

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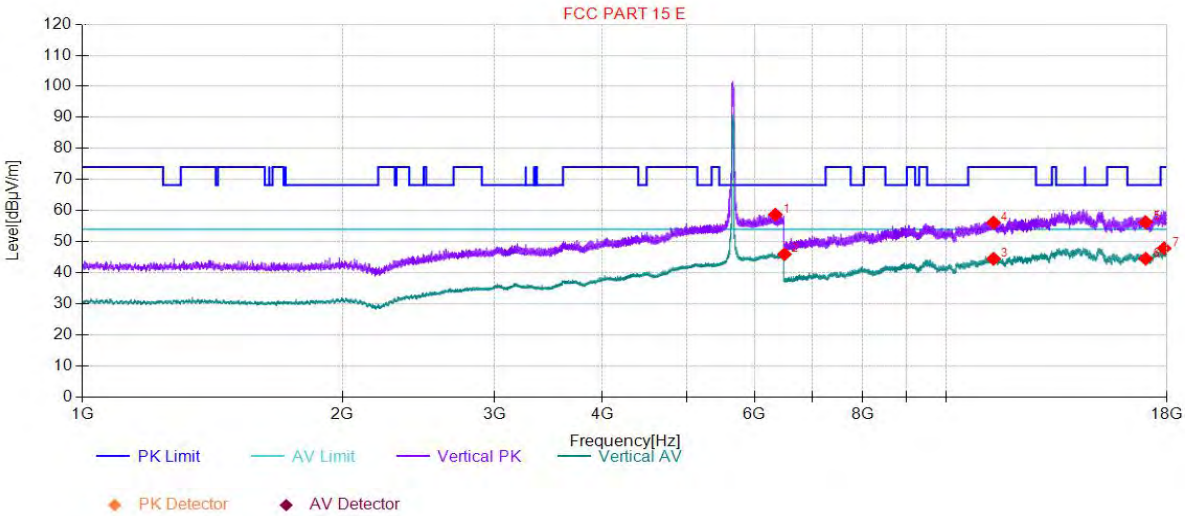
4.9.2.104 802.11AC40_Channel 134 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6340.489	58.69	18.35	68.20	9.51	150	Vertical
2	6495.966	45.96	18.69	54.00	8.04	150	Vertical
3	11340.00	44.47	2.55	54.00	9.53	150	Vertical
4	11340.00	56.13	2.55	74.00	17.87	150	Vertical
5	17010.00	56.24	6.16	68.20	11.96	150	Vertical
6	17010.00	44.51	6.16	54.00	9.49	150	Vertical
7	17871.65	47.83	8.60	54.00	6.17	150	Vertical

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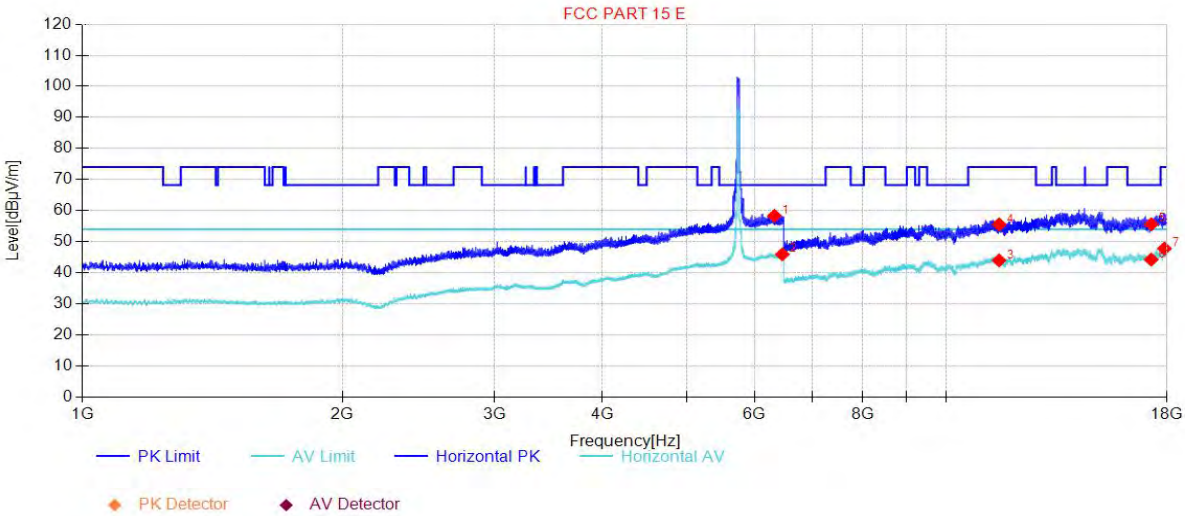
4.9.2.105 802.11AC40_Channel 151 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6324.721	58.30	18.40	68.20	9.90	150	Horizontal
2	6458.930	45.90	18.49	54.00	8.10	150	Horizontal
3	11510.00	43.95	2.17	54.00	10.05	150	Horizontal
4	11510.00	55.52	2.17	74.00	18.48	150	Horizontal
5	17265.00	55.59	6.33	68.20	12.61	150	Horizontal
6	17265.00	44.22	6.33	54.00	9.78	150	Horizontal
7	17884.53	47.78	8.71	54.00	6.22	150	Horizontal

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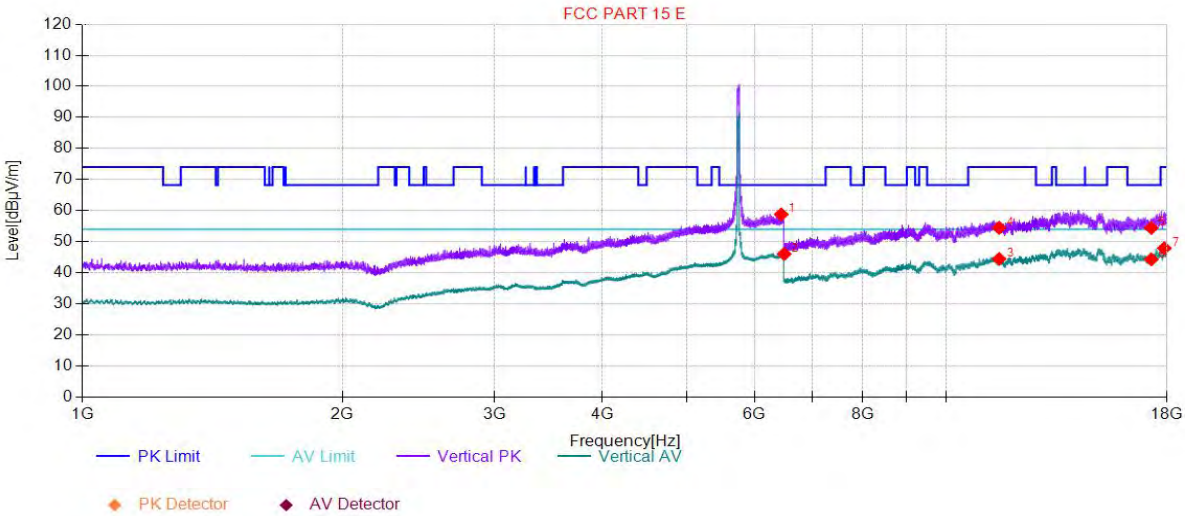
4.9.2.106 802.11AC40_Channel 151 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6440.229	58.77	18.38	68.20	9.43	150	Vertical
2	6491.199	46.02	18.67	54.00	7.98	150	Vertical
3	11510.00	44.43	2.17	54.00	9.57	150	Vertical
4	11510.00	54.47	2.17	74.00	19.53	150	Vertical
5	17265.00	54.42	6.33	68.20	13.78	150	Vertical
6	17265.00	44.28	6.33	54.00	9.72	150	Vertical
7	17877.63	47.88	8.65	54.00	6.12	150	Vertical

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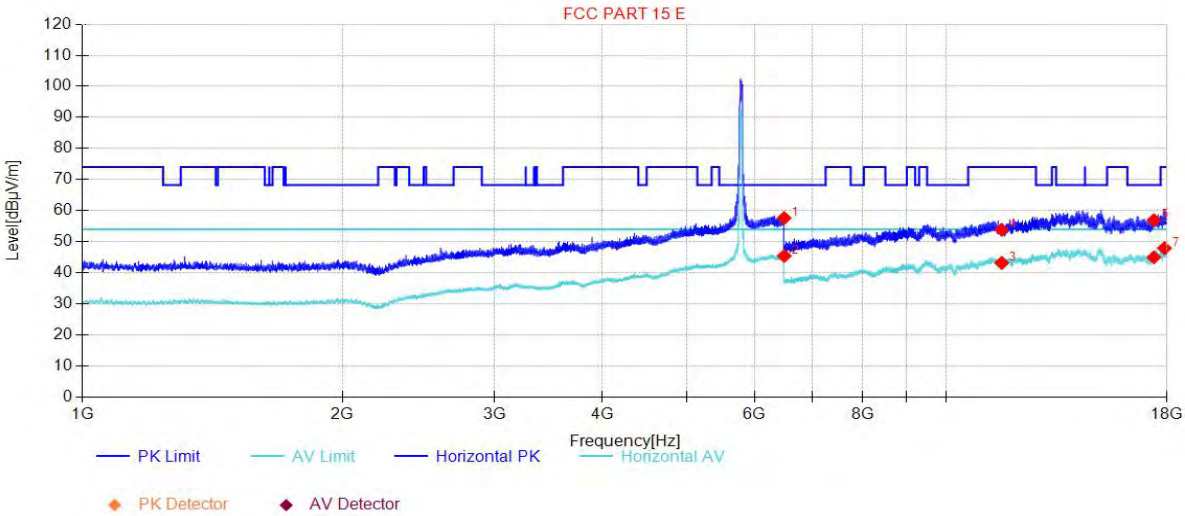
4.9.2.107 802.11AC40_Channel 159 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6490.466	57.59	18.66	68.20	10.61	150	Horizontal
2	6492.666	45.41	18.67	54.00	8.59	150	Horizontal
3	11590.00	43.15	3.16	54.00	10.85	150	Horizontal
4	11590.00	53.82	3.16	74.00	20.18	150	Horizontal
5	17385.00	56.88	6.82	68.20	11.32	150	Horizontal
6	17385.00	44.94	6.82	54.00	9.06	150	Horizontal
7	17884.07	47.90	8.70	54.00	6.10	150	Horizontal

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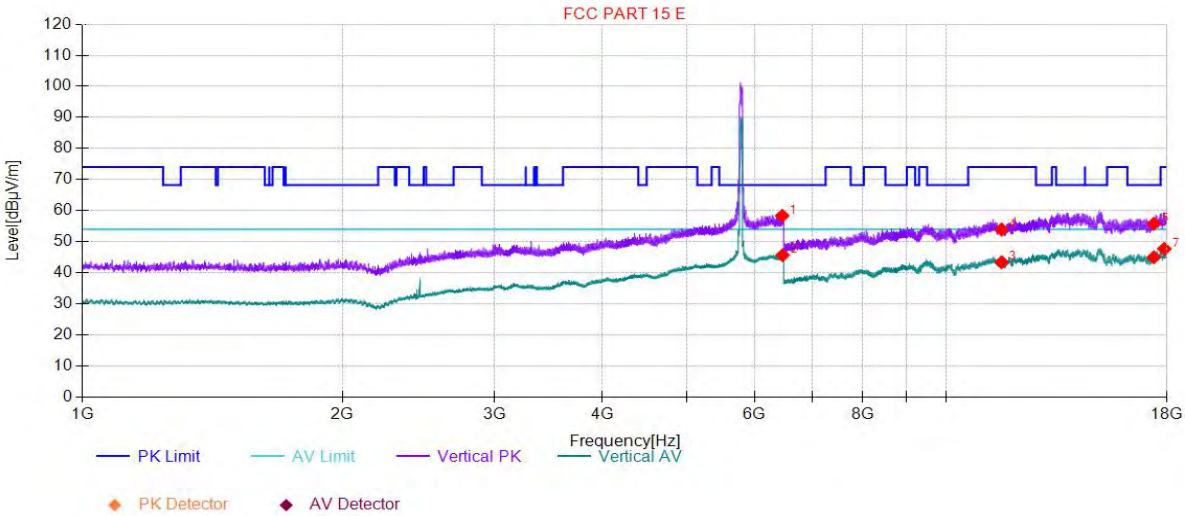
4.9.2.108 802.11AC40_Channel 159 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6456.730	58.31	18.47	68.20	9.89	150	Vertical
2	6465.164	45.65	18.52	54.00	8.35	150	Vertical
3	11590.00	43.37	3.16	54.00	10.63	150	Vertical
4	11590.00	53.90	3.16	74.00	20.10	150	Vertical
5	17385.00	55.77	6.82	68.20	12.43	150	Vertical
6	17385.00	44.96	6.82	54.00	9.04	150	Vertical
7	17878.09	47.70	8.65	54.00	6.30	150	Vertical

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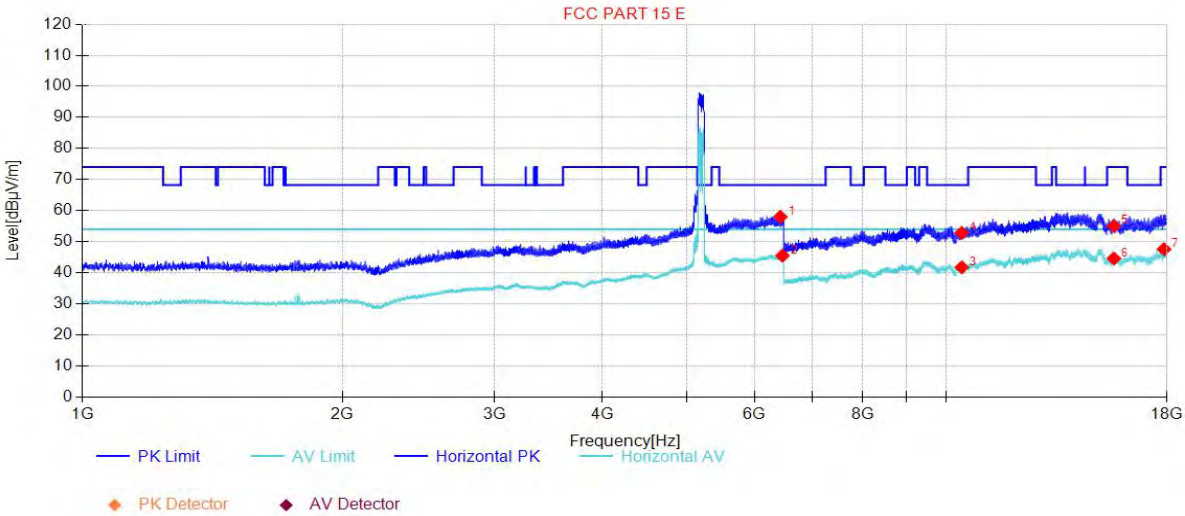
4.9.2.109 802.11AC80_Channel 42 MIMO



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1	6425.561	57.99	18.30	68.20	10.21	150	Horizontal
2	6461.864	45.49	18.50	54.00	8.51	150	Horizontal
3	10420.00	41.72	2.44	54.00	12.28	150	Horizontal
4	10420.00	52.79	2.44	68.20	15.41	150	Horizontal
5	15630.00	55.03	6.12	74.00	18.97	150	Horizontal
6	15630.00	44.57	6.12	54.00	9.43	150	Horizontal
7	17864.29	47.56	8.54	54.00	6.44	150	Horizontal

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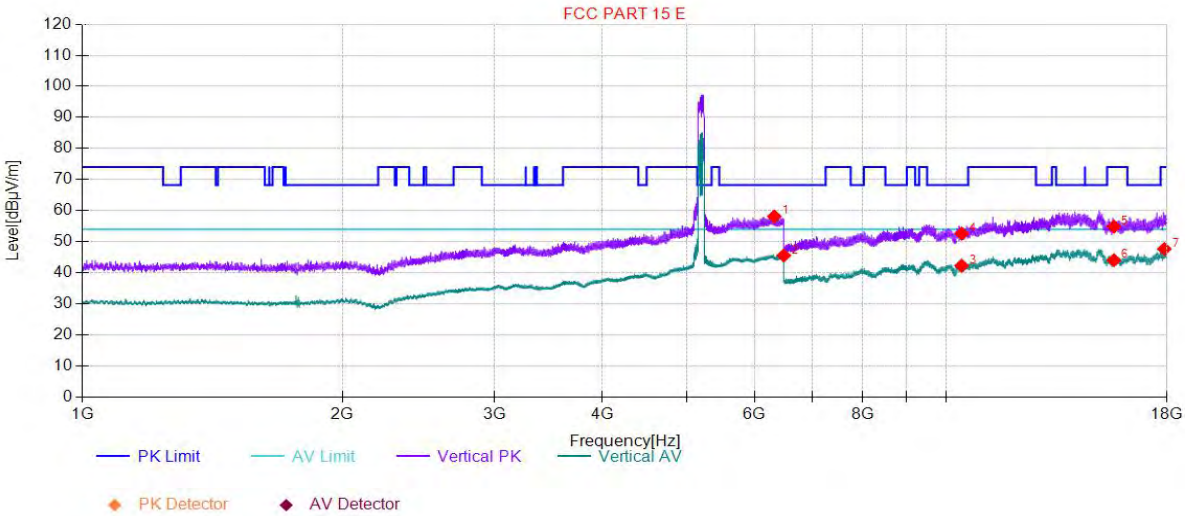
4.9.2.110 802.11AC80_Channel 42 MIMO



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1	6322.888	58.12	18.41	68.20	10.08	150	Vertical
2	6484.599	45.54	18.63	54.00	8.46	150	Vertical
3	10420.00	42.25	2.44	54.00	11.75	150	Vertical
4	10420.00	52.57	2.44	68.20	15.63	150	Vertical
5	15630.00	54.84	6.12	74.00	19.16	150	Vertical
6	15630.00	44.00	6.12	54.00	10.00	150	Vertical
7	17876.71	47.62	8.64	54.00	6.38	150	Vertical

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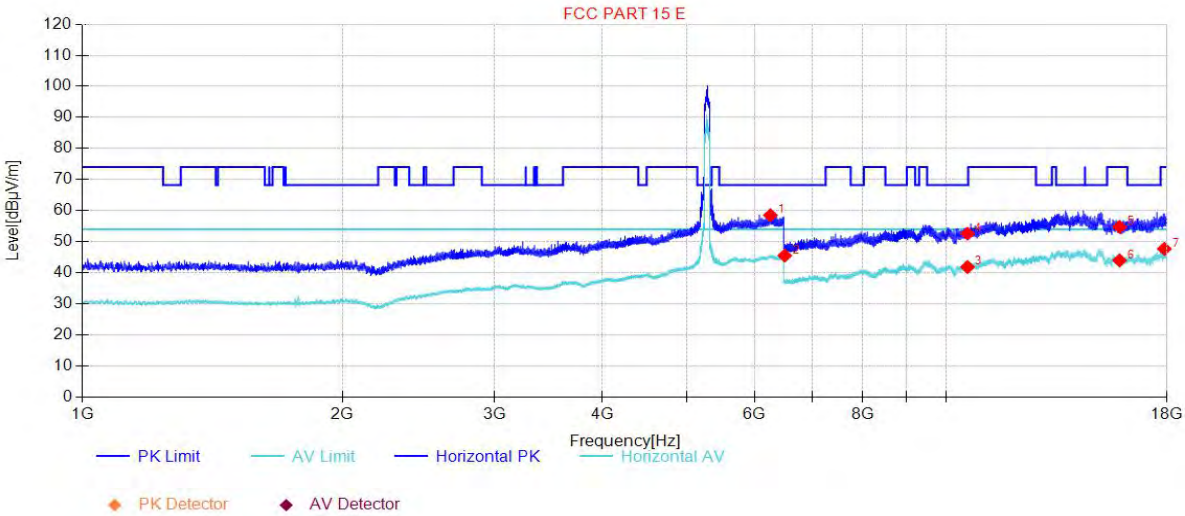
4.9.2.111 802.11AC80_Channel 58 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6257.250	58.51	18.28	68.20	9.69	150	Horizontal
2	6500.000	45.49	18.72	54.00	8.51	150	Horizontal
3	10580.00	41.83	2.29	54.00	12.17	150	Horizontal
4	10580.00	52.56	2.29	68.20	15.64	150	Horizontal
5	15870.00	54.73	5.24	74.00	19.27	150	Horizontal
6	15870.00	43.96	5.24	54.00	10.04	150	Horizontal
7	17878.55	47.66	8.66	54.00	6.34	150	Horizontal

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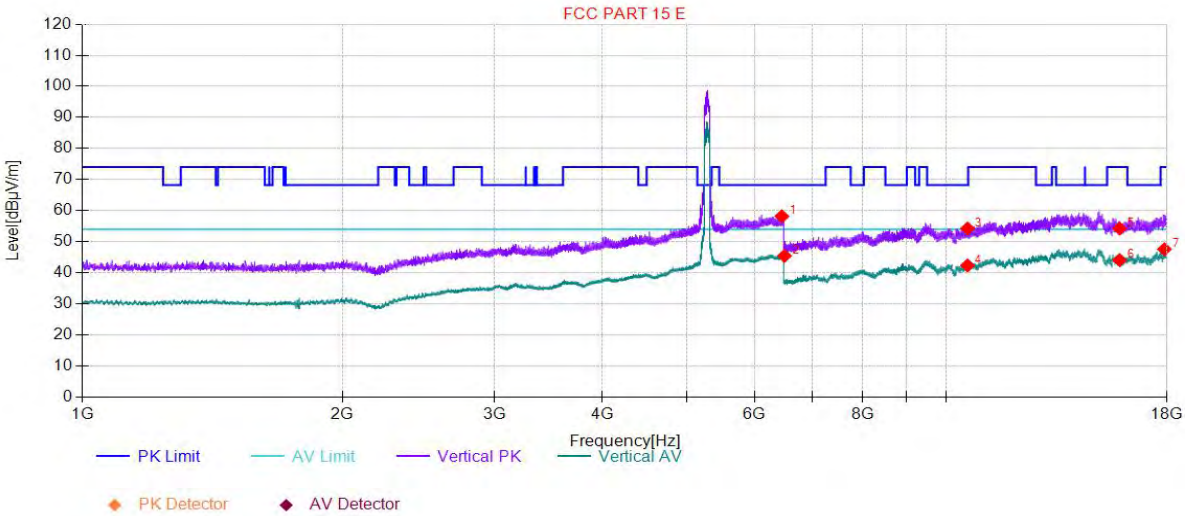
4.9.2.112 802.11AC80_Channel 58 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6451.230	58.16	18.44	68.20	10.04	150	Vertical
2	6496.699	45.42	18.70	54.00	8.58	150	Vertical
3	10580.00	54.23	2.29	68.20	13.97	150	Vertical
4	10580.00	42.31	2.29	54.00	11.69	150	Vertical
5	15870.00	54.22	5.24	74.00	19.78	150	Vertical
6	15870.00	44.06	5.24	54.00	9.94	150	Vertical
7	17883.15	47.55	8.69	54.00	6.45	150	Vertical

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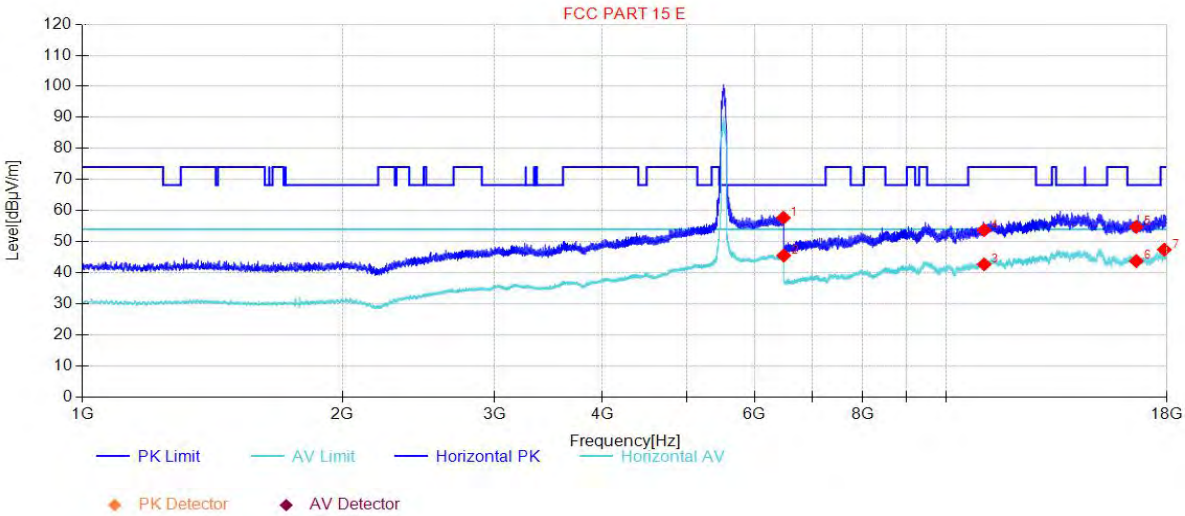
4.9.2.113 802.11AC80_Channel 106 MIMO



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1	6477.998	57.67	18.59	68.20	10.53	150	Horizontal
2	6483.132	45.52	18.62	54.00	8.48	150	Horizontal
3	11060.00	42.69	2.59	54.00	11.31	150	Horizontal
4	11060.00	53.70	2.59	74.00	20.30	150	Horizontal
5	16590.00	54.74	5.64	68.20	13.46	150	Horizontal
6	16590.00	43.74	5.64	54.00	10.26	150	Horizontal
7	17876.71	47.42	8.64	54.00	6.58	150	Horizontal

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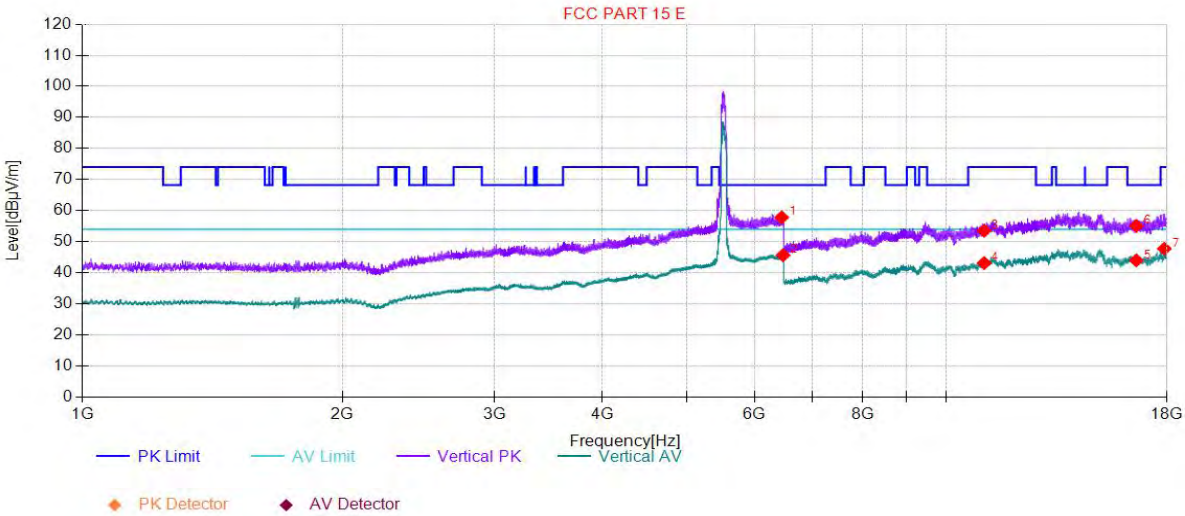
4.9.2.114 802.11AC80_Channel 106 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6448.296	57.81	18.43	68.20	10.39	150	Vertical
2	6472.131	45.63	18.56	54.00	8.37	150	Vertical
3	11060.00	53.50	2.59	74.00	20.50	150	Vertical
4	11060.00	43.09	2.59	54.00	10.91	150	Vertical
5	16590.00	43.96	5.64	54.00	10.04	150	Vertical
6	16590.00	55.06	5.64	68.20	13.14	150	Vertical
7	17878.55	47.71	8.66	54.00	6.29	150	Vertical

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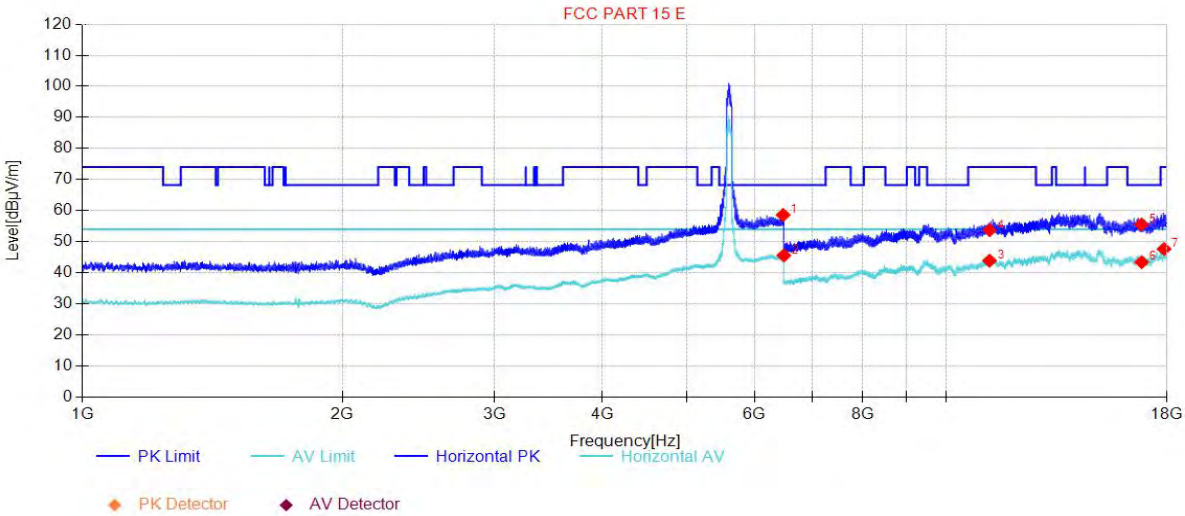
4.9.2.115 802.11AC80_Channel 122 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6473.231	58.59	18.57	68.20	9.61	150	Horizontal
2	6485.332	45.55	18.63	54.00	8.45	150	Horizontal
3	11220.00	43.86	2.57	54.00	10.14	150	Horizontal
4	11220.00	53.67	2.57	74.00	20.33	150	Horizontal
5	16830.00	55.53	5.23	68.20	12.67	150	Horizontal
6	16830.00	43.39	5.23	54.00	10.61	150	Horizontal
7	17864.75	47.63	8.54	54.00	6.37	150	Horizontal

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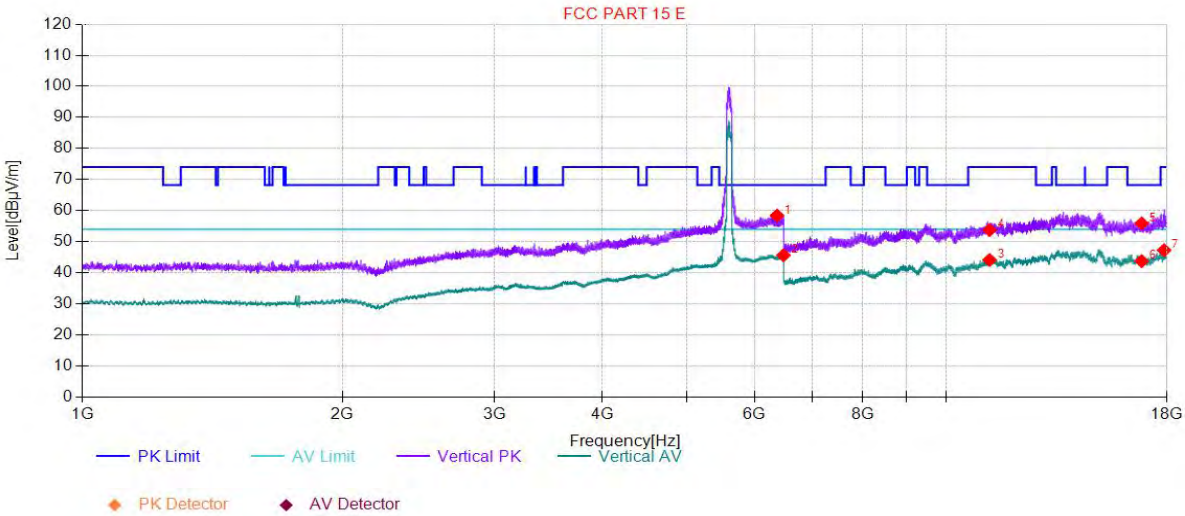
4.9.2.116 802.11AC80_Channel 122 MIMO



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1	6368.724	58.37	18.26	68.20	9.83	150	Vertical
2	6479.098	45.60	18.60	54.00	8.40	150	Vertical
3	11220.00	44.09	2.57	54.00	9.91	150	Vertical
4	11220.00	53.72	2.57	74.00	20.28	150	Vertical
5	16830.00	55.87	5.23	68.20	12.33	150	Vertical
6	16830.00	43.73	5.23	54.00	10.27	150	Vertical
7	17866.59	47.23	8.56	54.00	6.77	150	Vertical

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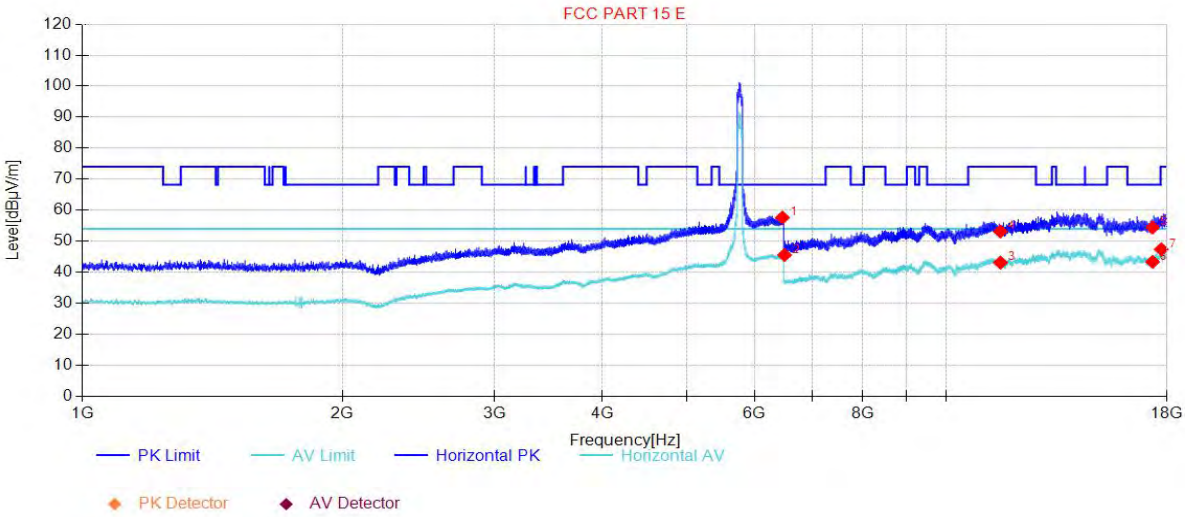
4.9.2.117 802.11AC80_Channel 155 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	6462.597	58.00	18.51	68.20	10.20	150	Vertical
2	6488.265	45.63	18.65	54.00	8.37	150	Vertical
3	11550.00	43.58	2.67	54.00	10.42	150	Vertical
4	11550.00	53.69	2.67	74.00	20.31	150	Vertical
5	17325.00	54.59	6.67	68.20	13.61	150	Vertical
6	17325.00	43.00	6.67	54.00	11.00	150	Vertical
7	17882.23	47.43	8.69	54.00	6.57	150	Vertical

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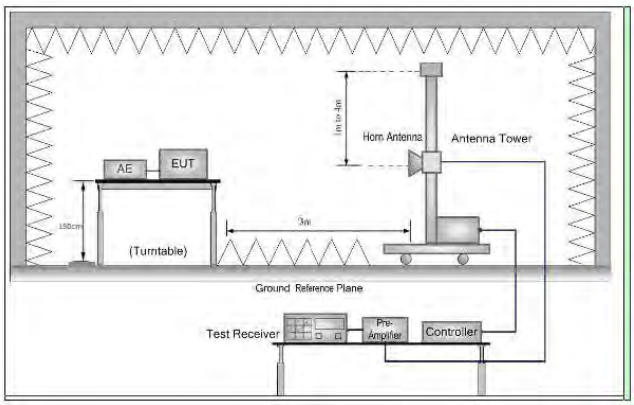
4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			



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Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the outermost channels. h. 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. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; 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 802.11ac(HT20). MCS0 of rate is the worst case of 802.11ac(HT40). MCS0 of rate is the worst case of 802.11ac(HT80). 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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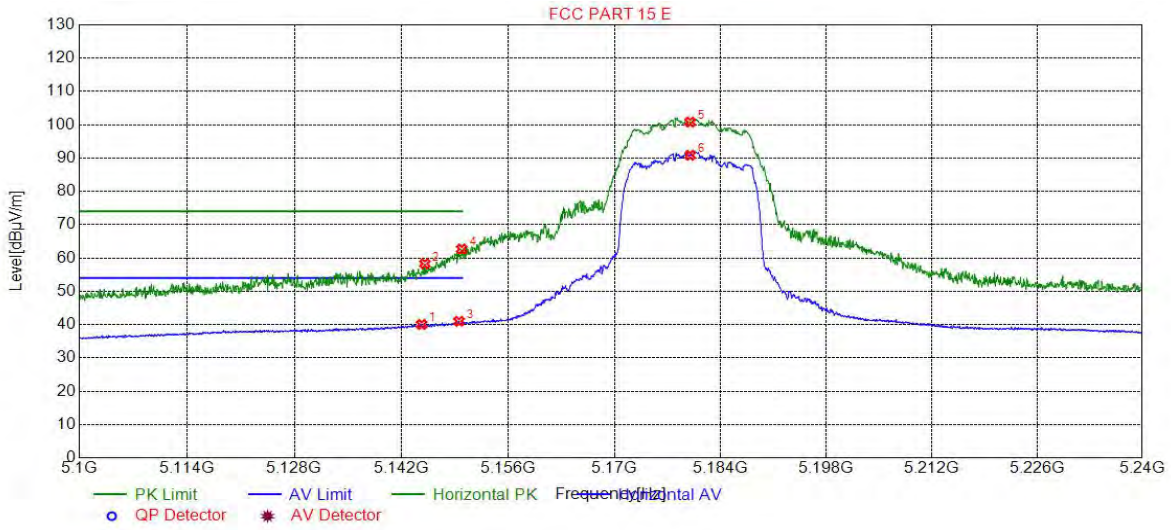
4.10.1 Test Plots

4.10.1.1 802.11A_Channel 36 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.682	40.05	54.00	13.95	150	120	Horizontal
2	5145.102	58.31	74.00	15.69	150	86	Horizontal
3	5149.584	41.01	54.00	12.99	150	113	Horizontal
4	5149.935	62.70	74.00	11.30	150	71	Horizontal
5	5180.000	100.80	0.00	-100.80	150	71	Horizontal
6	5180.000	90.85	0.00	-90.85	150	75	Horizontal

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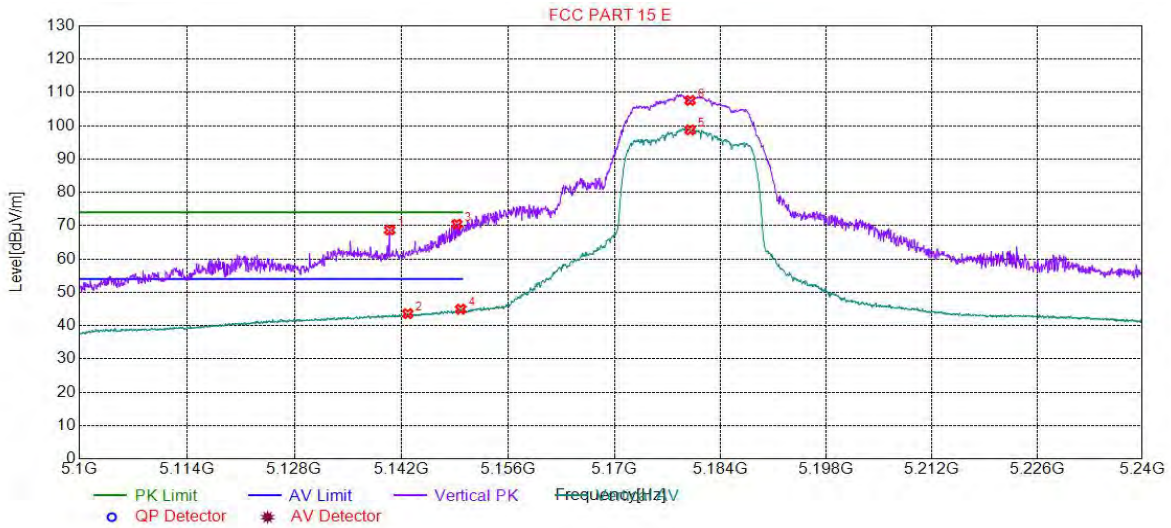
4.10.1.2 802.11A_Channel 36 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5140.480	68.69	74.00	5.31	150	185	Vertical
2	5142.861	43.61	54.00	10.39	150	162	Vertical
3	5149.304	70.48	74.00	3.52	150	166	Vertical
4	5149.794	44.94	54.00	9.06	150	162	Vertical
5	5180.000	98.76	0.00	-98.76	150	166	Vertical
6	5180.000	107.61	0.00	-107.61	150	166	Vertical

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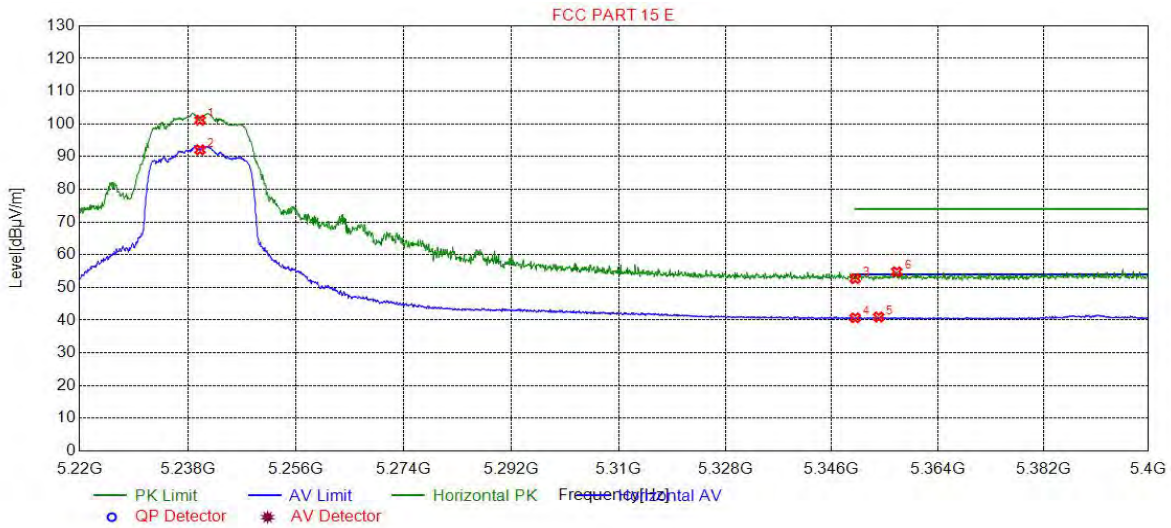
4.10.1.3 802.11A_Channel 48 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.000	101.16	0.00	-101.16	150	250	Horizontal
2	5240.000	92.08	0.00	-92.08	150	126	Horizontal
3	5350.000	52.70	74.00	21.30	150	49	Horizontal
4	5350.000	40.72	54.00	13.28	150	140	Horizontal
5	5353.987	40.97	54.00	13.03	150	287	Horizontal
6	5357.048	54.80	74.00	19.20	150	306	Horizontal

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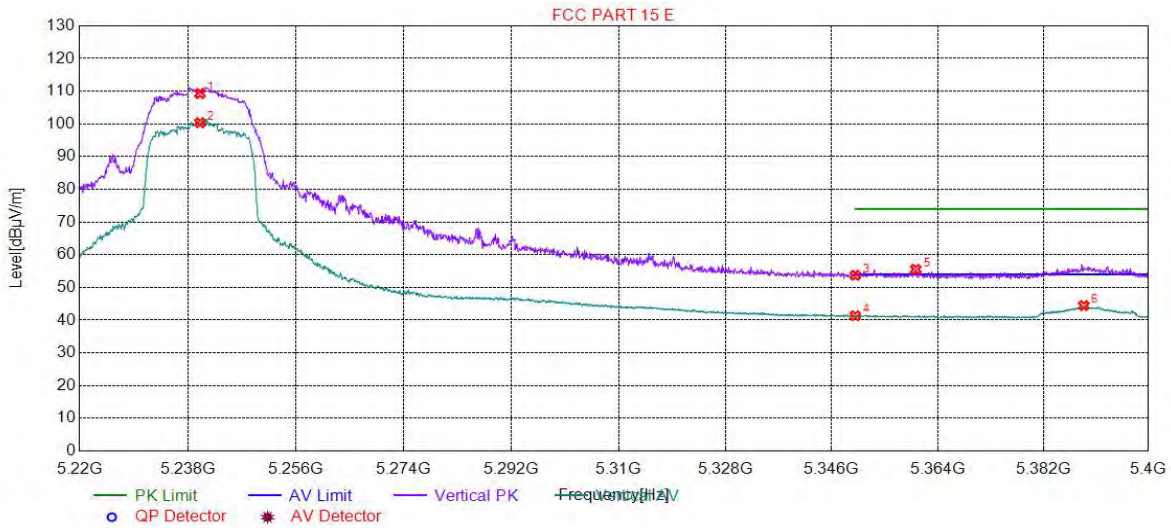
4.10.1.4 802.11A_Channel 48 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.000	109.31	0.00	-109.31	150	160	Vertical
2	5240.000	100.37	0.00	-100.37	150	160	Vertical
3	5350.000	53.75	74.00	20.25	150	92	Vertical
4	5350.000	41.36	54.00	12.64	150	170	Vertical
5	5360.290	55.57	74.00	18.43	150	59	Vertical
6	5388.924	44.46	54.00	9.54	150	146	Vertical

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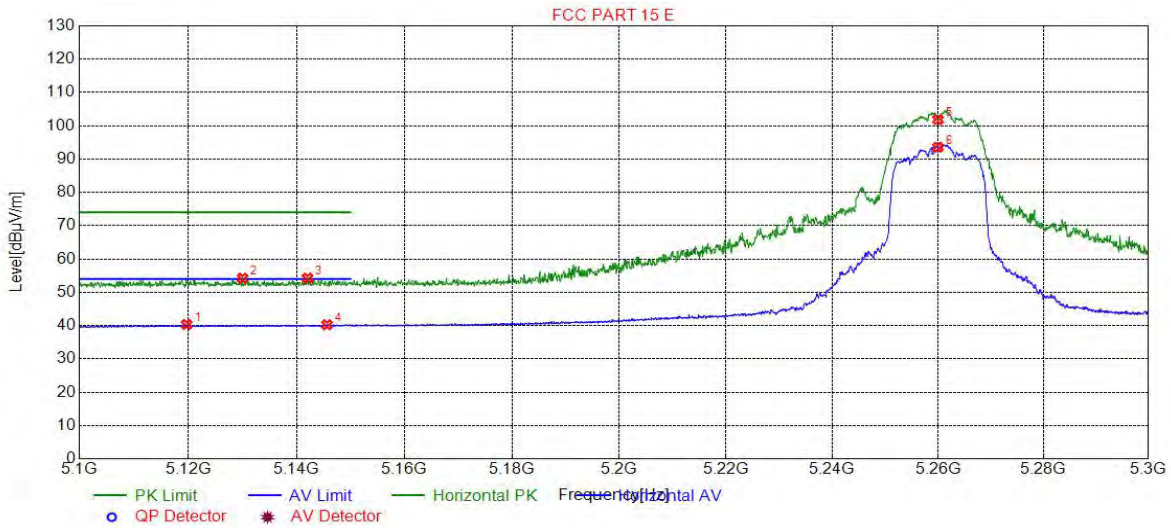
4.10.1.5 802.11A_Channel 52 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5119.709	40.36	54.00	13.64	150	121	Horizontal
2	5130.015	54.24	74.00	19.76	150	126	Horizontal
3	5142.021	54.27	74.00	19.73	150	130	Horizontal
4	5145.622	40.28	54.00	13.72	150	130	Horizontal
5	5260.000	101.85	0.00	-101.85	150	111	Horizontal
6	5260.000	93.56	0.00	-93.56	150	335	Horizontal

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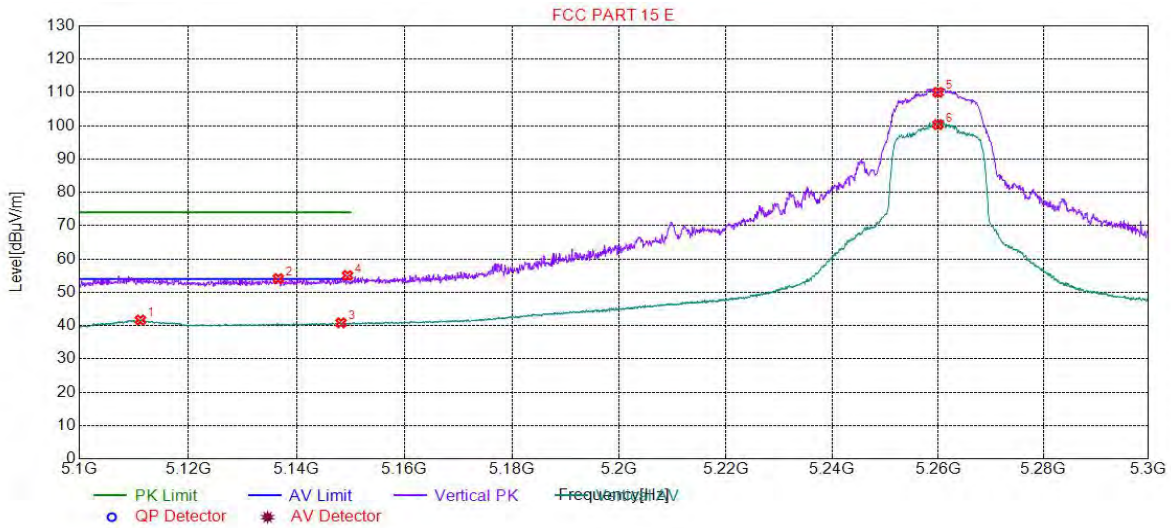
4.10.1.6 802.11A_Channel 52 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5111.205	41.70	54.00	12.30	150	124	Vertical
2	5136.618	54.15	74.00	19.85	150	119	Vertical
3	5148.224	40.86	54.00	13.14	150	360	Vertical
4	5149.424	55.06	74.00	18.94	150	143	Vertical
5	5260.000	110.03	0.00	-110.03	150	162	Vertical
6	5260.000	100.35	0.00	-100.35	150	162	Vertical

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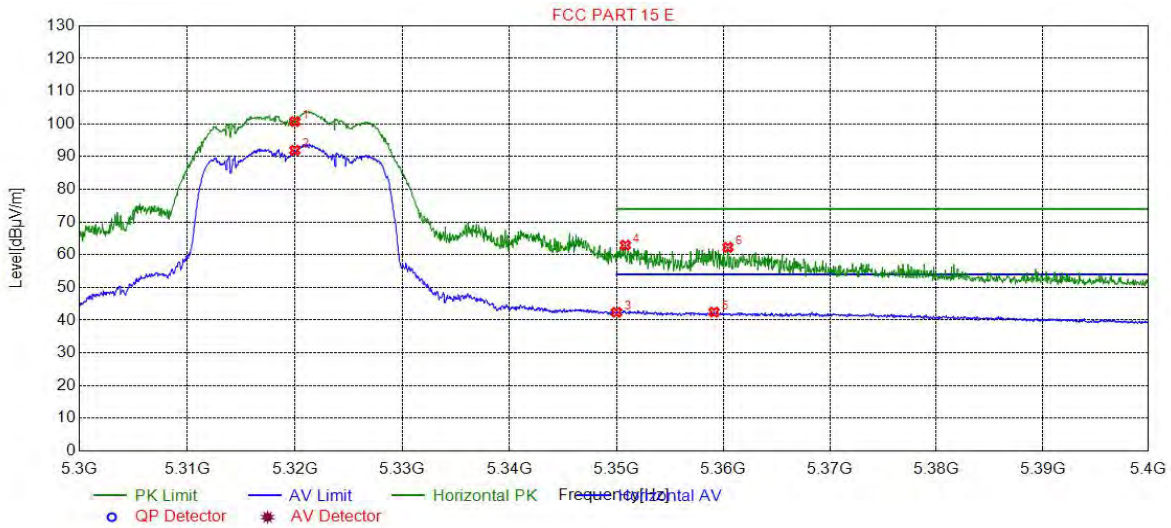
4.10.1.7 802.11A_Channel 64 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.000	100.70	0.00	-100.70	150	287	Horizontal
2	5320.000	91.93	0.00	-91.93	150	297	Horizontal
3	5350.000	42.40	54.00	11.60	150	287	Horizontal
4	5350.825	62.93	74.00	11.07	150	287	Horizontal
5	5359.129	42.48	54.00	11.52	150	292	Horizontal
6	5360.430	62.27	74.00	11.73	150	292	Horizontal

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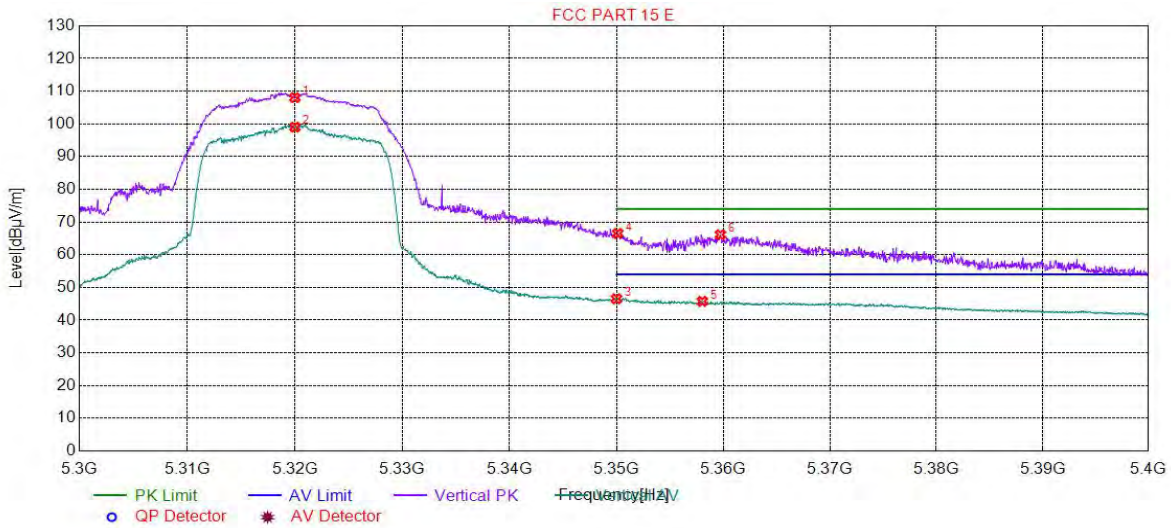
4.10.1.8 802.11A_Channel 64 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.000	108.05	0.00	-108.05	200	183	Vertical
2	5320.000	99.02	0.00	-99.02	200	183	Vertical
3	5350.000	46.54	54.00	7.46	200	183	Vertical
4	5350.125	66.53	74.00	7.47	200	178	Vertical
5	5358.029	45.77	54.00	8.23	200	183	Vertical
6	5359.729	66.16	74.00	7.84	200	178	Vertical

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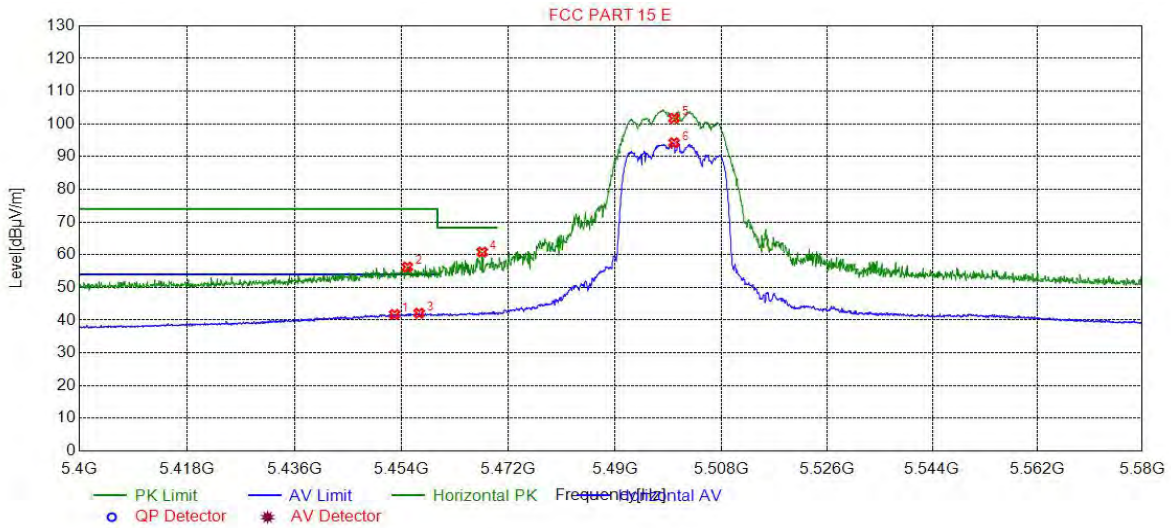
4.10.1.9 802.11A_Channel 100 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5452.766	41.76	54.00	12.24	150	299	Horizontal
2	5454.927	56.26	74.00	17.74	150	299	Horizontal
3	5456.908	42.12	54.00	11.88	150	295	Horizontal
4	5467.533	60.84	68.30	7.46	150	110	Horizontal
5	5500.000	101.74	0.00	-101.74	150	307	Horizontal
6	5500.000	94.23	0.00	-94.23	150	292	Horizontal

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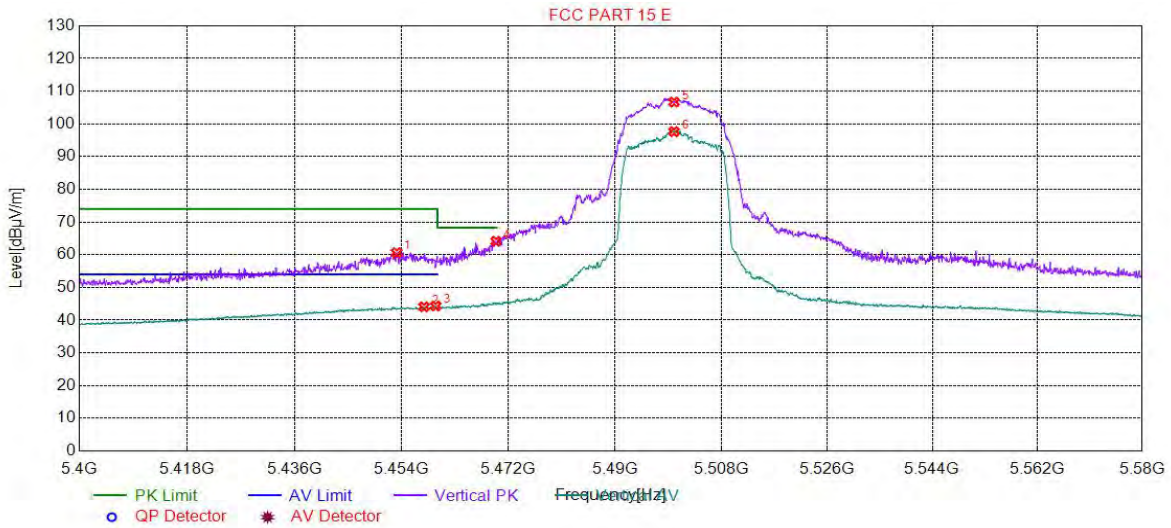
4.10.1.10 802.11A_Channel 100 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5453.126	60.66	74.00	13.34	150	97	Vertical
2	5457.718	44.08	54.00	9.92	150	149	Vertical
3	5459.699	44.34	54.00	9.66	150	183	Vertical
4	5469.874	64.12	68.30	4.18	150	137	Vertical
5	5500.000	106.68	0.00	-106.68	150	149	Vertical
6	5500.000	97.66	0.00	-97.66	150	153	Vertical

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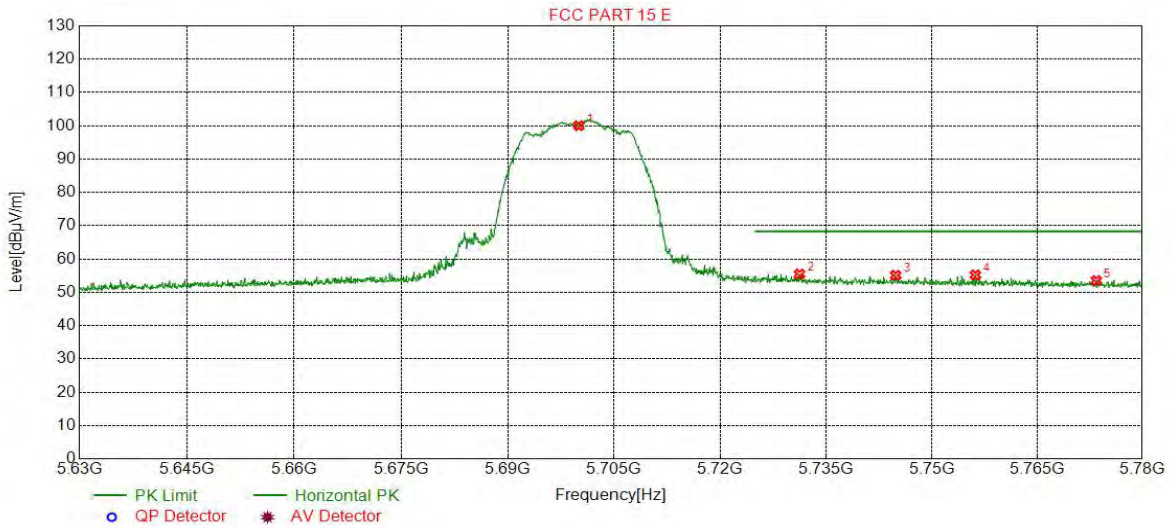
4.10.1.11 802.11A_Channel 140 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	100.02	0.00	-100.02	150	257	Horizontal
2	5731.225	55.51	68.30	12.79	150	327	Horizontal
3	5744.882	55.12	68.30	13.18	150	65	Horizontal
4	5756.213	55.22	68.30	13.08	150	274	Horizontal
5	5773.471	53.55	68.30	14.75	150	281	Horizontal

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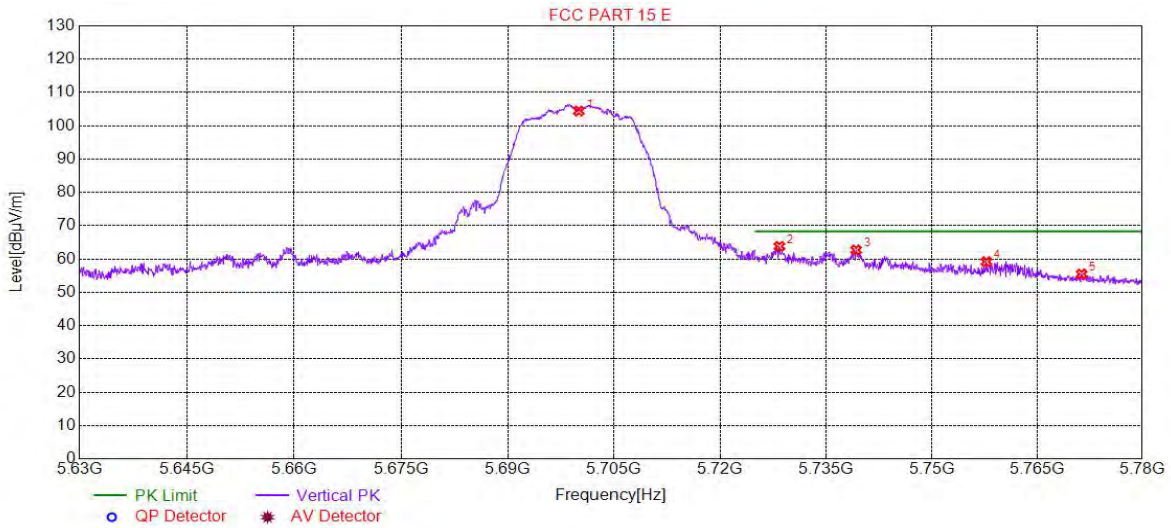
4.10.1.12 802.11A_Channel 140 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	104.42	0.00	-104.42	150	85	Vertical
2	5728.374	63.80	68.30	4.50	150	88	Vertical
3	5739.254	62.74	68.30	5.56	150	99	Vertical
4	5757.788	59.20	68.30	9.10	150	88	Vertical
5	5771.370	55.51	68.30	12.79	150	85	Vertical

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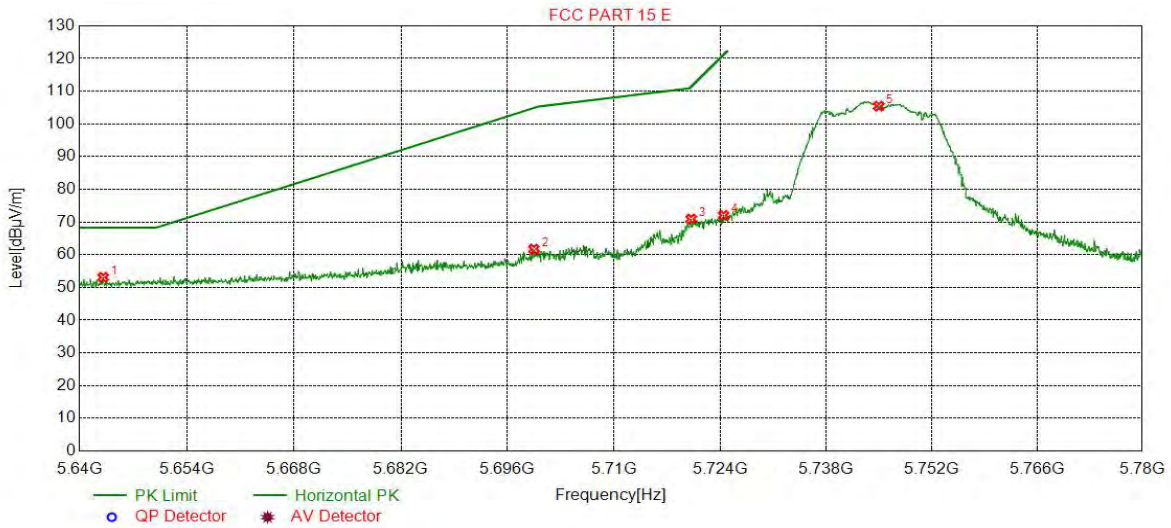
4.10.1.13 802.11A_Channel 149 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.081	53.10	68.30	15.20	150	285	Horizontal
2	5699.459	61.74	104.90	43.16	150	300	Horizontal
3	5720.190	70.93	111.33	40.40	150	332	Horizontal
4	5724.462	72.04	121.07	49.03	150	257	Horizontal
5	5745.000	105.44	0.00	-105.44	150	293	Horizontal

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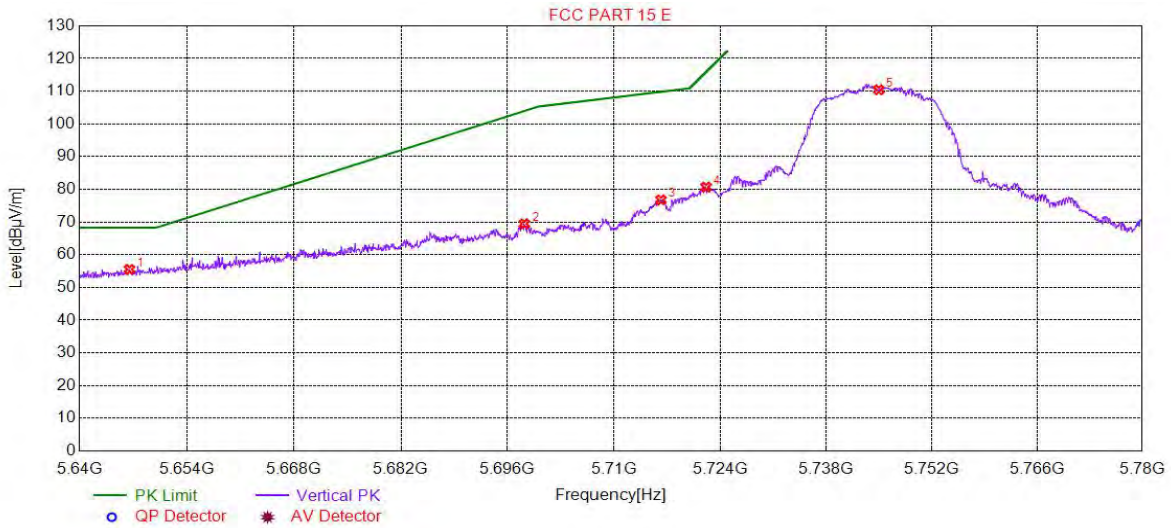
4.10.1.14 802.11A_Channel 149 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.513	55.54	68.30	12.76	150	104	Vertical
2	5698.199	69.48	103.97	34.49	150	75	Vertical
3	5716.198	76.78	109.84	33.06	150	100	Vertical
4	5722.151	80.71	115.80	35.09	150	93	Vertical
5	5745.000	110.45	0.00	-110.45	150	82	Vertical

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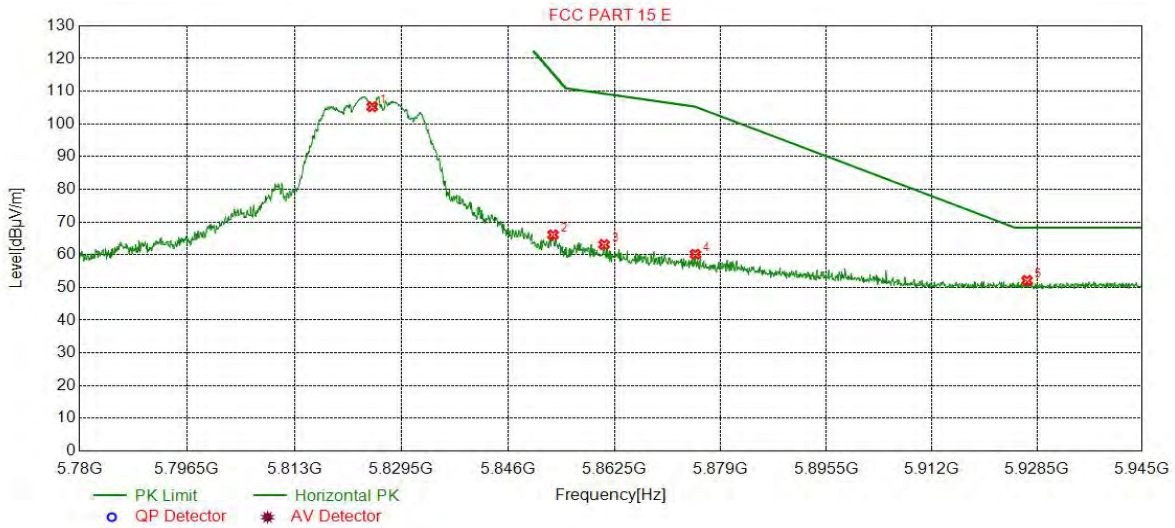
4.10.1.15 802.11A_Channel 165 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.000	105.26	0.00	-105.26	150	262	Horizontal
2	5852.966	66.10	115.54	49.44	150	258	Horizontal
3	5860.890	63.12	109.25	46.13	150	255	Horizontal
4	5875.087	60.17	105.24	45.07	150	255	Horizontal
5	5926.923	52.16	68.30	16.14	150	357	Horizontal

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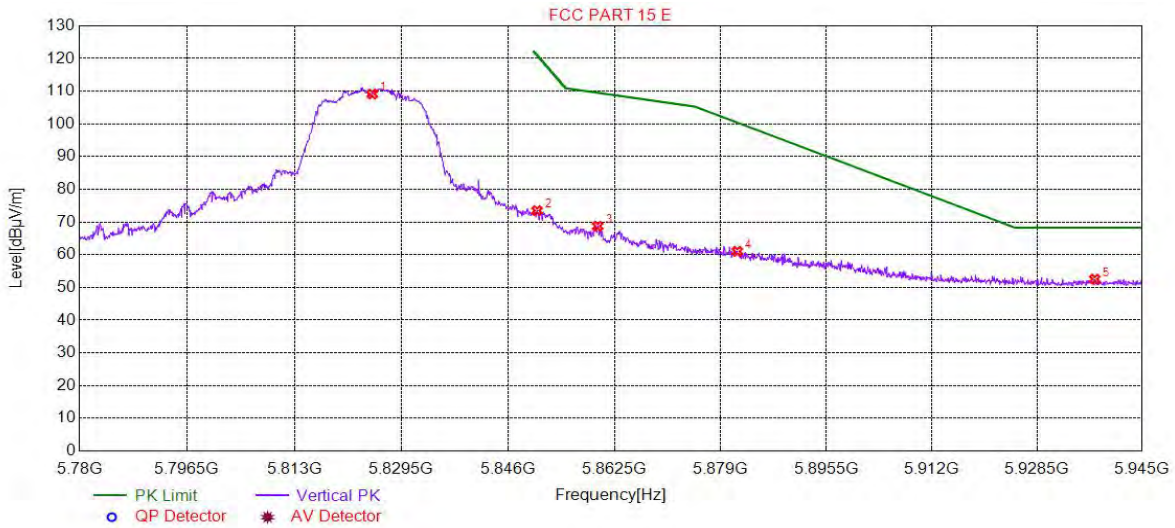
4.10.1.16 802.11A_Channel 165 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.000	109.16	0.00	-109.16	150	96	Vertical
2	5850.490	73.51	121.18	47.67	150	72	Vertical
3	5859.900	68.73	109.53	40.80	150	72	Vertical
4	5881.608	61.03	100.41	39.38	150	86	Vertical
5	5937.571	52.55	68.30	15.75	150	184	Vertical

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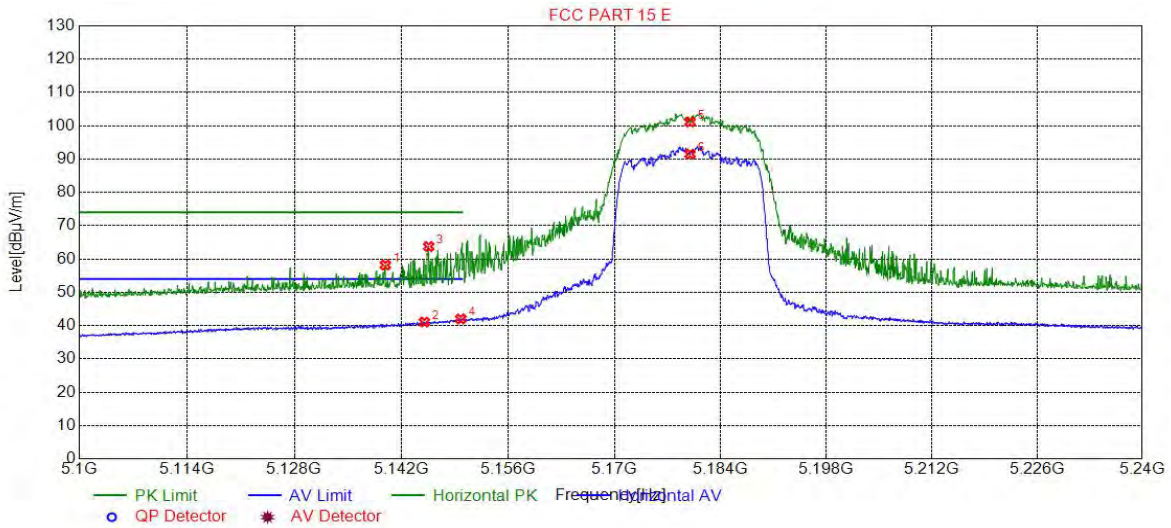
4.10.1.17 802.11N20_Channel 36 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5139.920	58.22	74.00	15.78	150	126	Horizontal
2	5145.032	41.09	54.00	12.91	150	346	Horizontal
3	5145.592	63.75	74.00	10.25	150	346	Horizontal
4	5149.794	42.02	54.00	11.98	150	346	Horizontal
5	5180.000	101.15	0.00	-101.15	150	346	Horizontal
6	5180.000	91.49	0.00	-91.49	150	115	Horizontal

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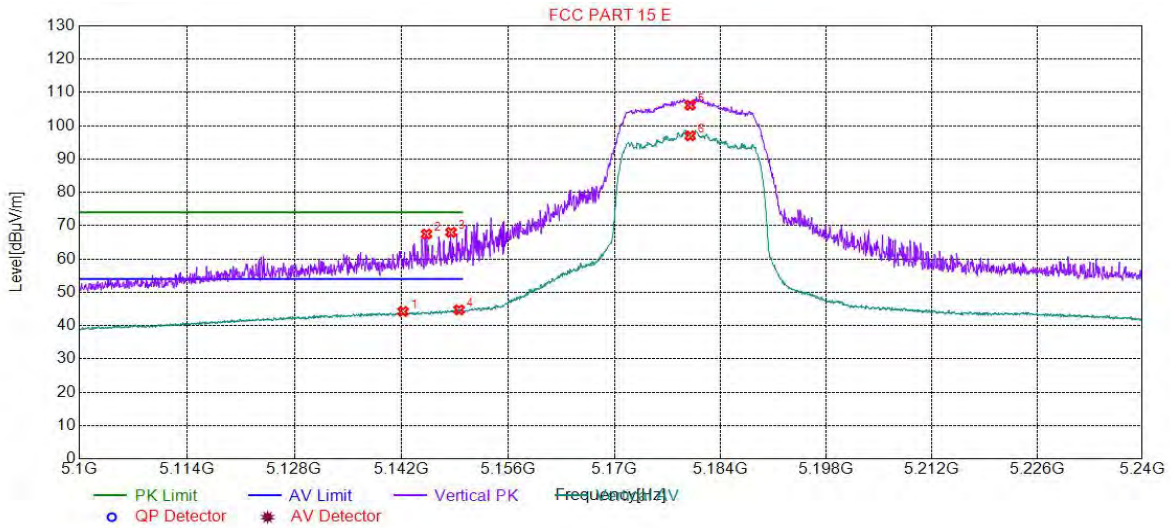
4.10.1.18 802.11N20_Channel 36 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.231	44.26	54.00	9.74	150	164	Vertical
2	5145.312	67.50	74.00	6.50	150	156	Vertical
3	5148.534	68.02	74.00	5.98	150	123	Vertical
4	5149.584	44.76	54.00	9.24	150	168	Vertical
5	5180.000	106.18	0.00	-106.18	150	130	Vertical
6	5180.000	96.98	0.00	-96.98	150	168	Vertical

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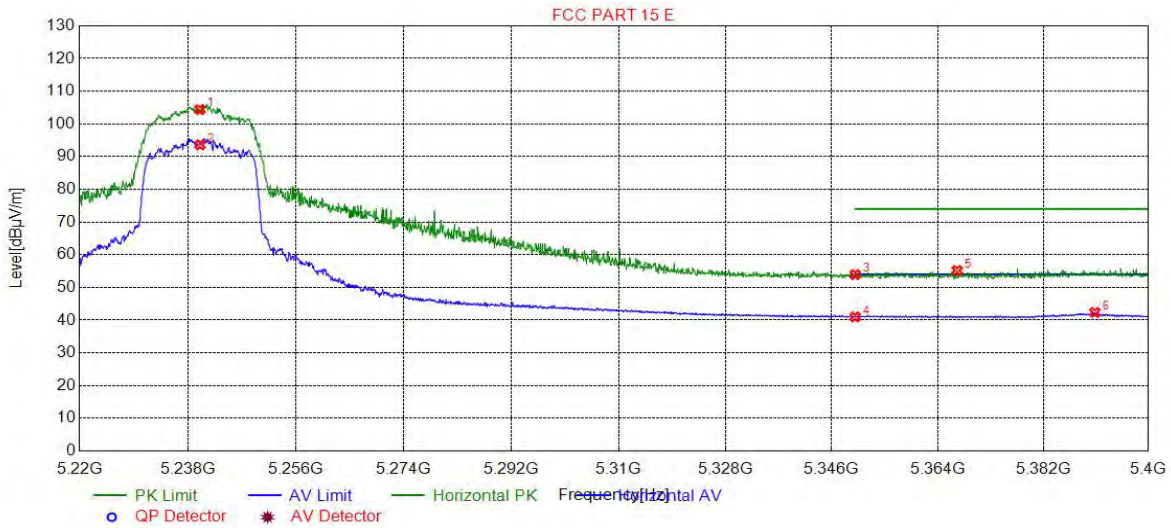
4.10.1.19 802.11N20_Channel 48 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.000	104.41	0.00	-104.41	150	115	Horizontal
2	5240.000	93.58	0.00	-93.58	150	115	Horizontal
3	5350.000	53.95	74.00	20.05	150	213	Horizontal
4	5350.000	41.00	54.00	13.00	150	213	Horizontal
5	5367.313	55.22	74.00	18.78	150	213	Horizontal
6	5390.815	42.38	54.00	11.62	150	120	Horizontal

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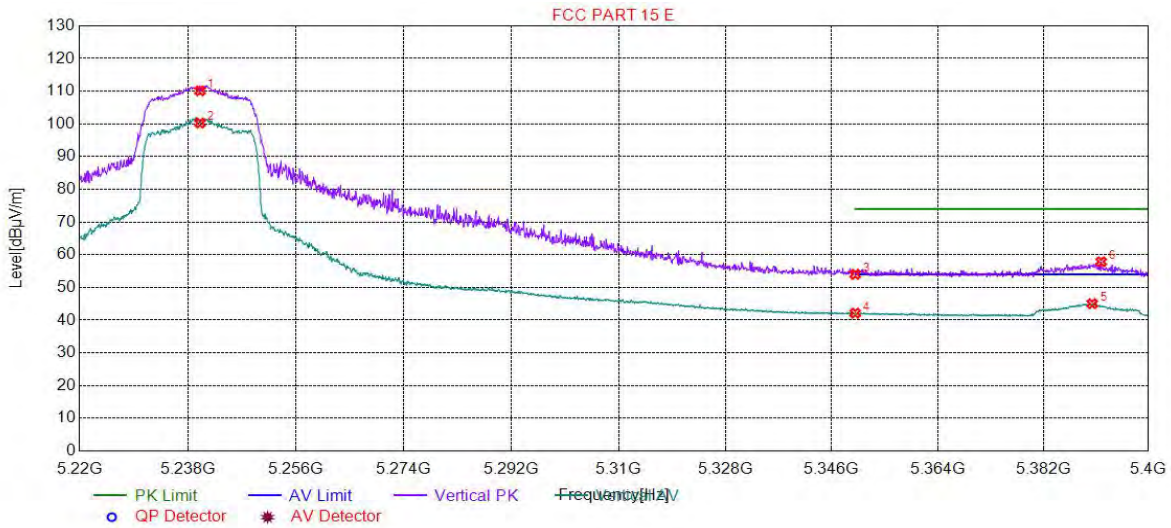
4.10.1.20 802.11N20_Channel 48 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.000	110.12	0.00	-110.12	150	114	Vertical
2	5240.000	100.26	0.00	-100.26	150	193	Vertical
3	5350.000	54.03	74.00	19.97	150	118	Vertical
4	5350.000	42.15	54.00	11.85	150	184	Vertical
5	5390.365	45.06	54.00	8.94	150	179	Vertical
6	5391.895	57.87	74.00	16.13	150	142	Vertical

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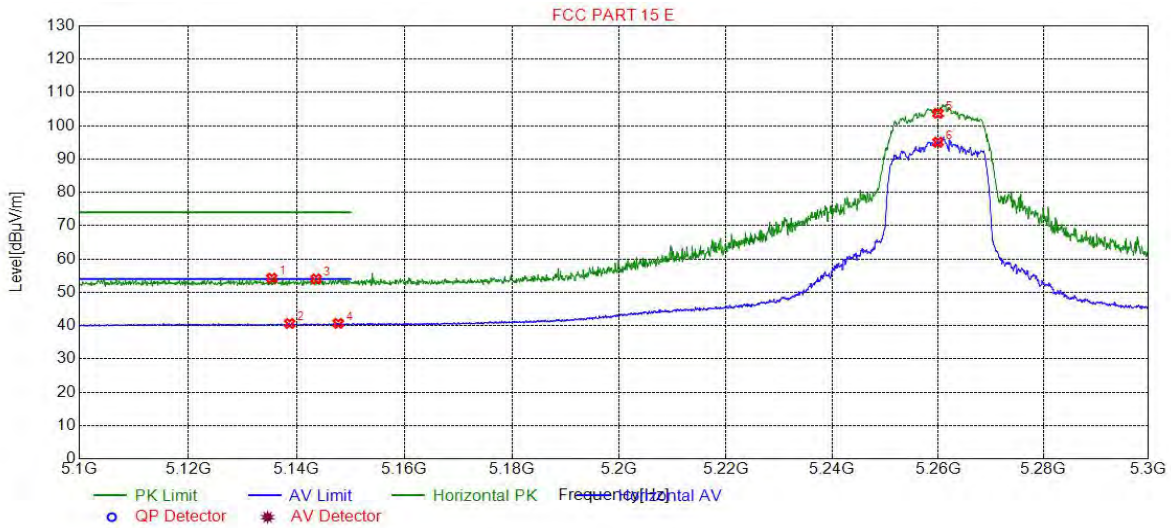
4.10.1.21 802.11N20_Channel 52 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5135.417	54.27	74.00	19.73	150	189	Horizontal
2	5138.719	40.66	54.00	13.34	150	344	Horizontal
3	5143.621	54.03	74.00	19.97	150	250	Horizontal
4	5147.723	40.68	54.00	13.32	150	128	Horizontal
5	5260.000	103.72	0.00	-103.72	150	119	Horizontal
6	5260.000	95.07	0.00	-95.07	150	119	Horizontal

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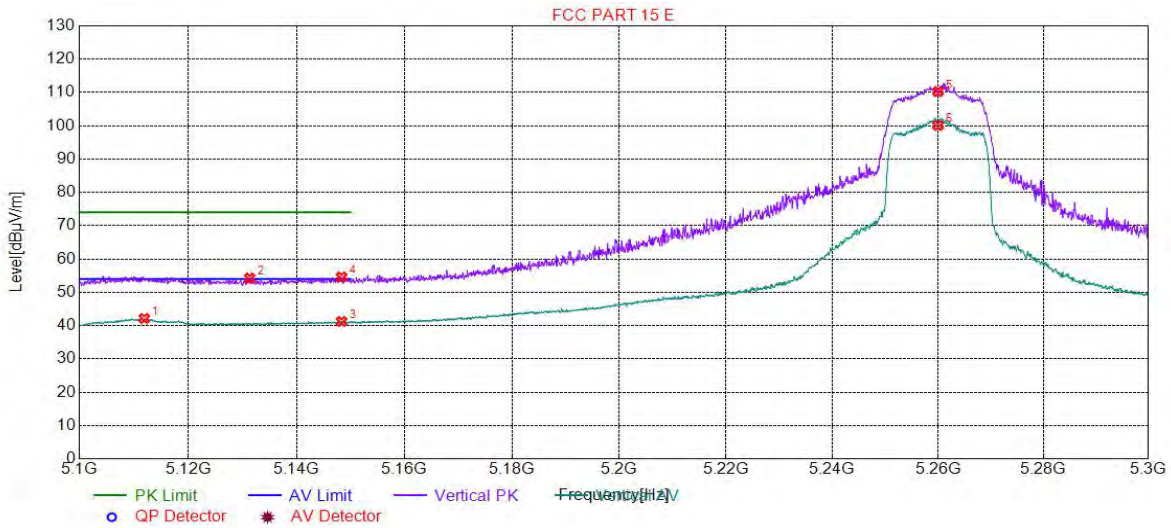
4.10.1.22 802.11N20_Channel 52 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5111.906	42.16	54.00	11.84	150	114	Vertical
2	5131.315	54.28	74.00	19.72	150	180	Vertical
3	5148.324	41.27	54.00	12.73	150	147	Vertical
4	5148.324	54.63	74.00	19.37	150	118	Vertical
5	5260.000	110.26	0.00	-110.26	150	166	Vertical
6	5260.000	100.07	0.00	-100.07	150	156	Vertical

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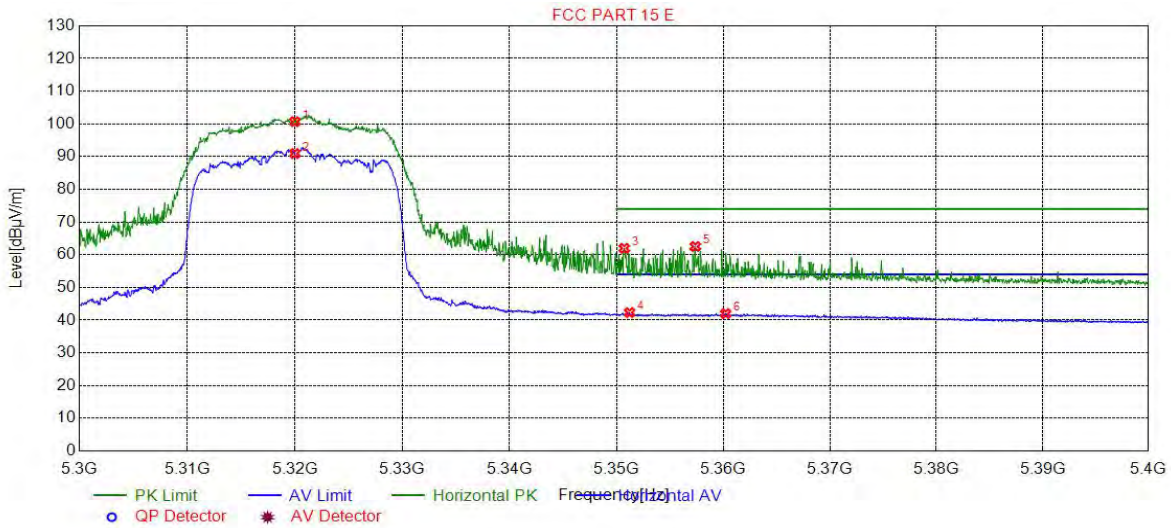
4.10.1.23 802.11N20_Channel 64 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.000	100.68	0.00	-100.68	150	340	Horizontal
2	5320.000	90.94	0.00	-90.94	150	108	Horizontal
3	5350.725	61.98	74.00	12.02	150	103	Horizontal
4	5351.225	42.33	54.00	11.67	150	297	Horizontal
5	5357.378	62.52	74.00	11.48	150	112	Horizontal
6	5360.230	42.01	54.00	11.99	150	288	Horizontal

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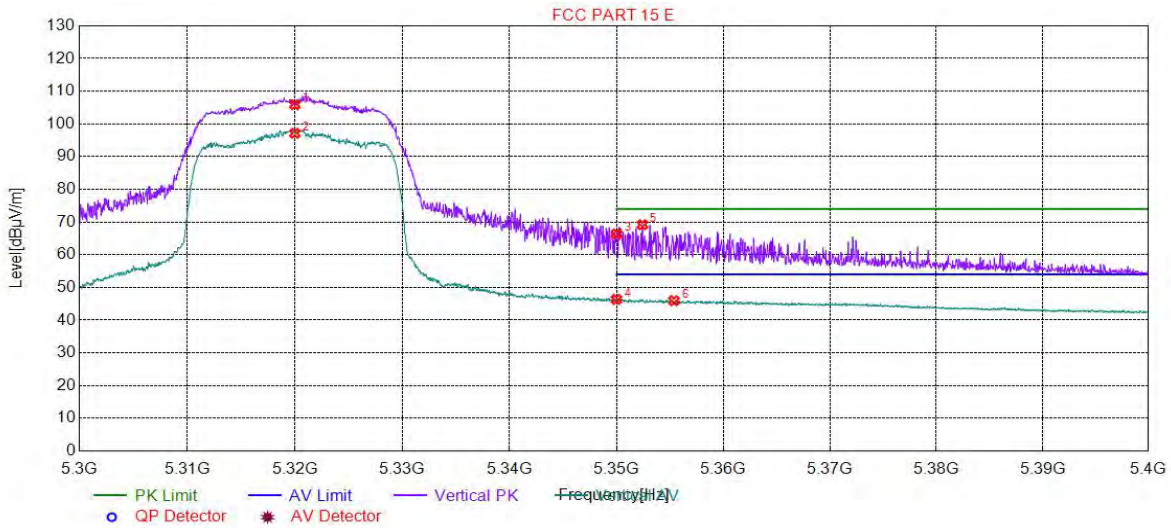
4.10.1.24 802.11N20_Channel 64 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.000	105.89	0.00	-105.89	150	148	Vertical
2	5320.000	97.14	0.00	-97.14	150	186	Vertical
3	5350.000	66.36	74.00	7.64	150	124	Vertical
4	5350.000	46.37	54.00	7.63	150	191	Vertical
5	5352.426	69.18	74.00	4.82	150	186	Vertical
6	5355.377	45.96	54.00	8.04	150	191	Vertical

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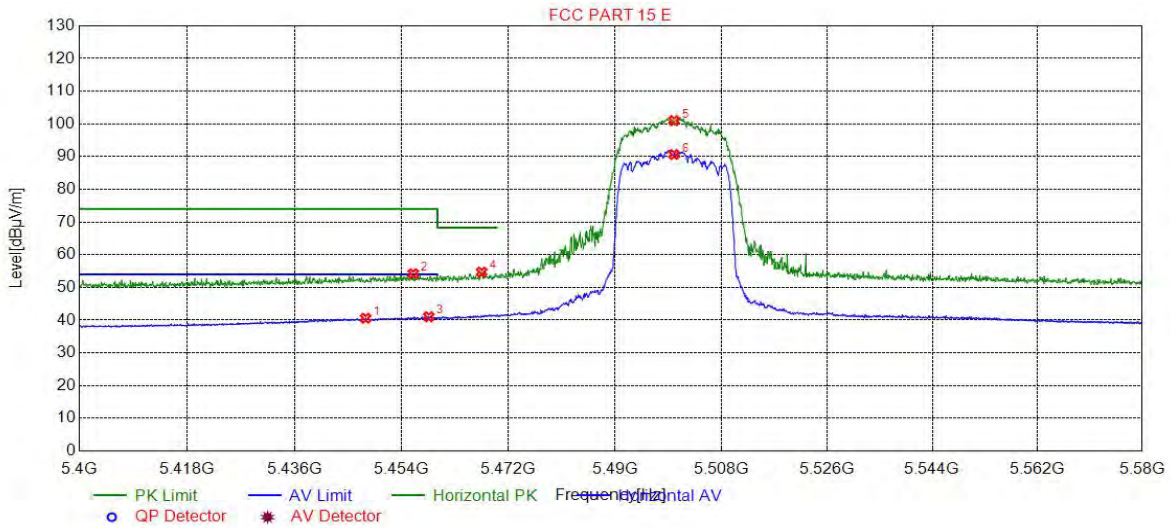
4.10.1.25 802.11N20_Channel 100 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.904	40.61	54.00	13.39	150	286	Horizontal
2	5455.918	54.23	74.00	19.77	150	279	Horizontal
3	5458.529	41.06	54.00	12.94	150	297	Horizontal
4	5467.443	54.72	68.30	13.58	150	297	Horizontal
5	5500.000	101.02	0.00	-101.02	150	286	Horizontal
6	5500.000	90.66	0.00	-90.66	150	297	Horizontal

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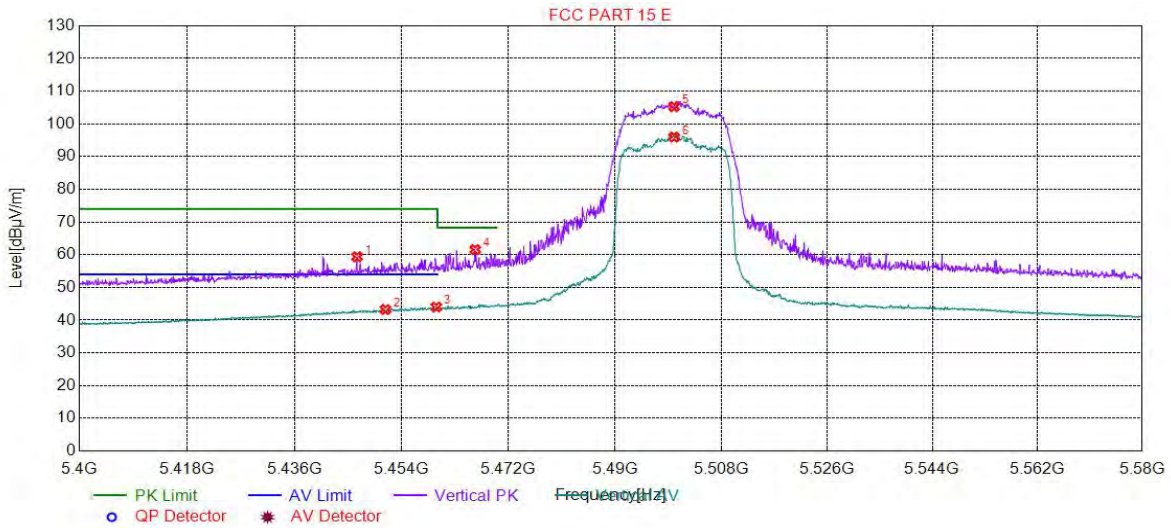
4.10.1.26 802.11N20_Channel 100 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.463	59.40	74.00	14.60	150	131	Vertical
2	5451.235	43.25	54.00	10.75	150	183	Vertical
3	5459.789	44.02	54.00	9.98	150	183	Vertical
4	5466.363	61.58	68.30	6.72	150	89	Vertical
5	5500.000	105.27	0.00	-105.27	150	149	Vertical
6	5500.000	95.99	0.00	-95.99	150	183	Vertical

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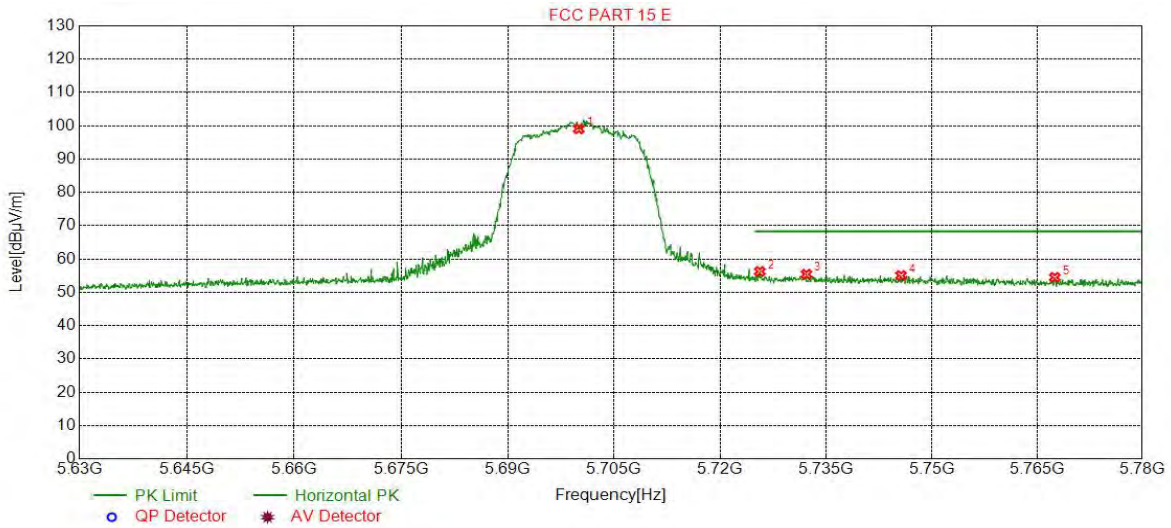
4.10.1.27 802.11N20_Channel 140 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	99.07	0.00	-99.07	150	266	Horizontal
2	5725.597	56.26	68.30	12.04	150	266	Horizontal
3	5732.201	55.44	68.30	12.86	150	277	Horizontal
4	5745.632	55.05	68.30	13.25	150	360	Horizontal
5	5767.543	54.47	68.30	13.83	150	263	Horizontal

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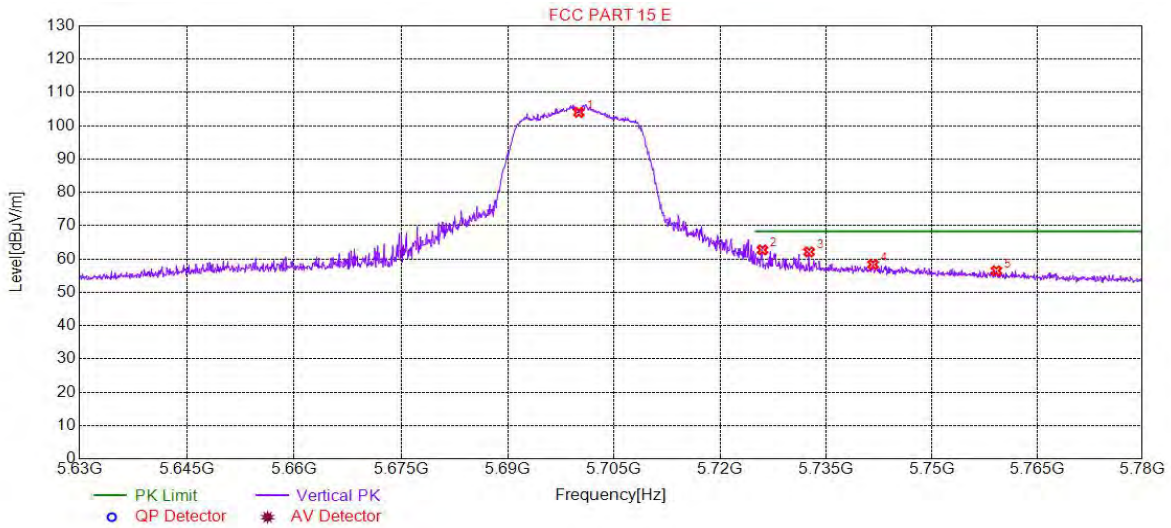
4.10.1.28 802.11N20_Channel 140 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	104.01	0.00	-104.01	150	80	Vertical
2	5725.973	62.75	68.30	5.55	150	165	Vertical
3	5732.576	62.14	68.30	6.16	150	151	Vertical
4	5741.655	58.37	68.30	9.93	150	109	Vertical
5	5759.214	56.49	68.30	11.81	150	172	Vertical

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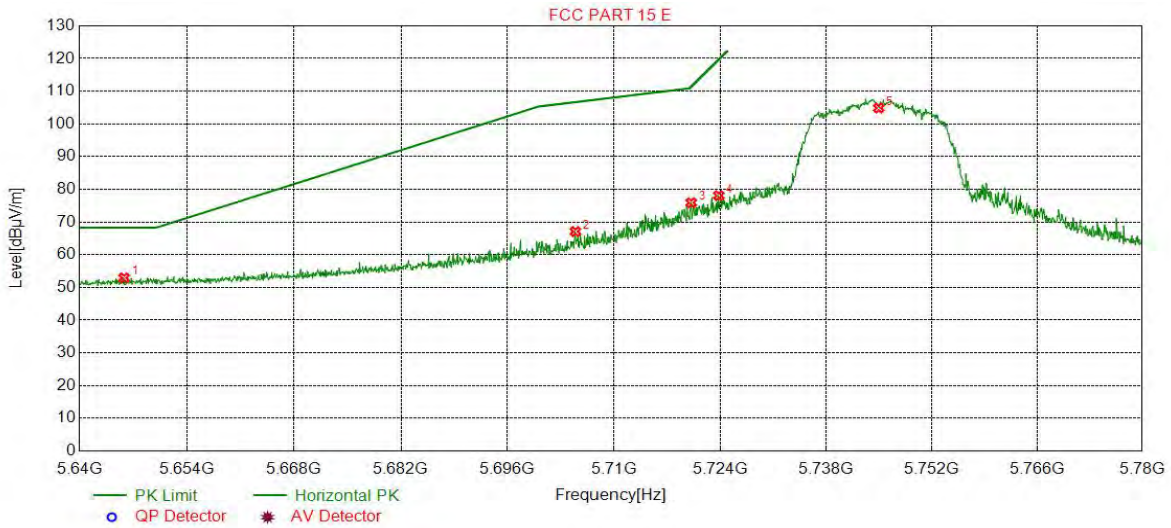
4.10.1.29 802.11N20_Channel 149 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.812	52.93	68.30	15.37	150	259	Horizontal
2	5704.922	67.10	106.68	39.58	150	277	Horizontal
3	5720.190	75.91	111.33	35.42	150	125	Horizontal
4	5723.831	78.08	119.64	41.56	150	298	Horizontal
5	5745.000	104.87	0.00	-104.87	150	273	Horizontal

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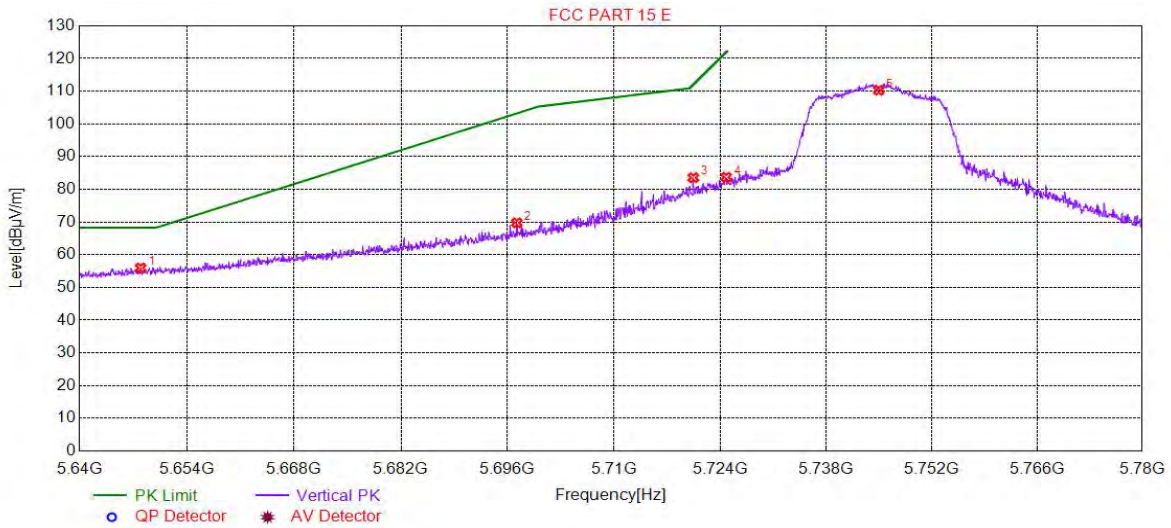
4.10.1.30 802.11N20_Channel 149 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.984	55.96	68.30	12.34	150	117	Vertical
2	5697.218	69.78	103.24	33.46	150	99	Vertical
3	5720.470	83.56	111.97	28.41	150	162	Vertical
4	5724.812	83.71	121.87	38.16	150	159	Vertical
5	5745.000	110.29	0.00	-110.29	150	106	Vertical

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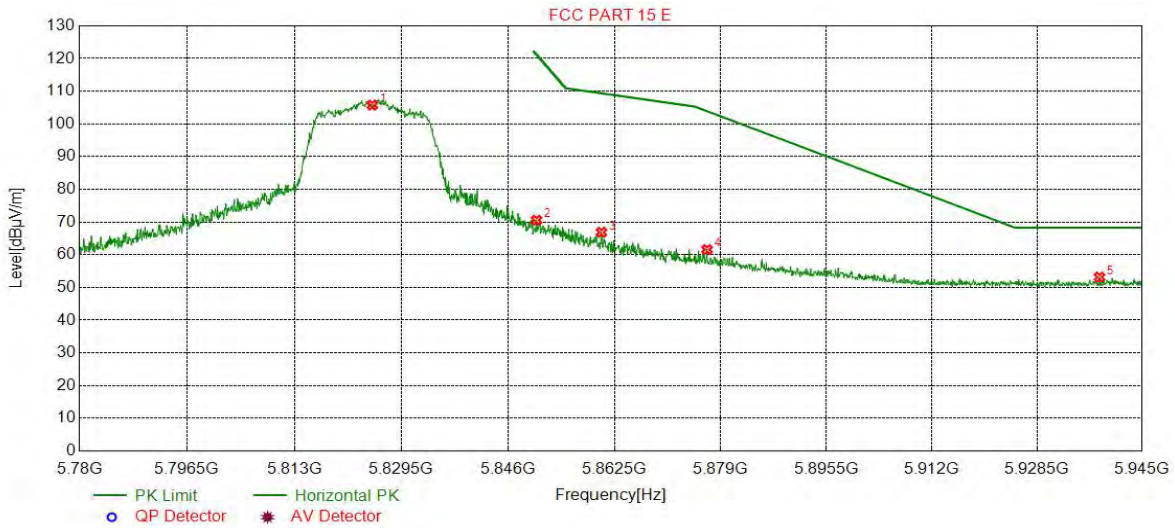
4.10.1.31 802.11N20_Channel 165 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.000	105.76	0.00	-105.76	150	308	Horizontal
2	5850.407	70.56	121.37	50.81	150	251	Horizontal
3	5860.477	66.88	109.37	42.49	150	272	Horizontal
4	5876.903	61.60	103.89	42.29	150	262	Horizontal
5	5938.314	53.17	68.30	15.13	150	30	Horizontal

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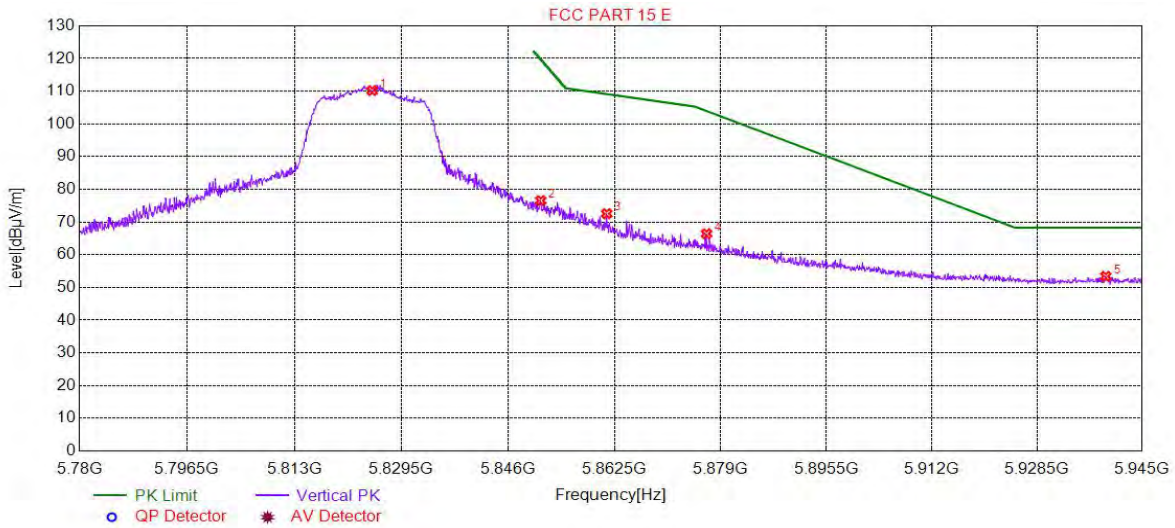
4.10.1.32 802.11N20_Channel 165 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.000	110.21	0.00	-110.21	150	169	Vertical
2	5851.068	76.58	119.86	43.28	150	137	Vertical
3	5861.303	72.56	109.14	36.58	150	130	Vertical
4	5876.820	66.45	103.95	37.50	150	197	Vertical
5	5939.304	53.43	68.30	14.87	150	0	Vertical

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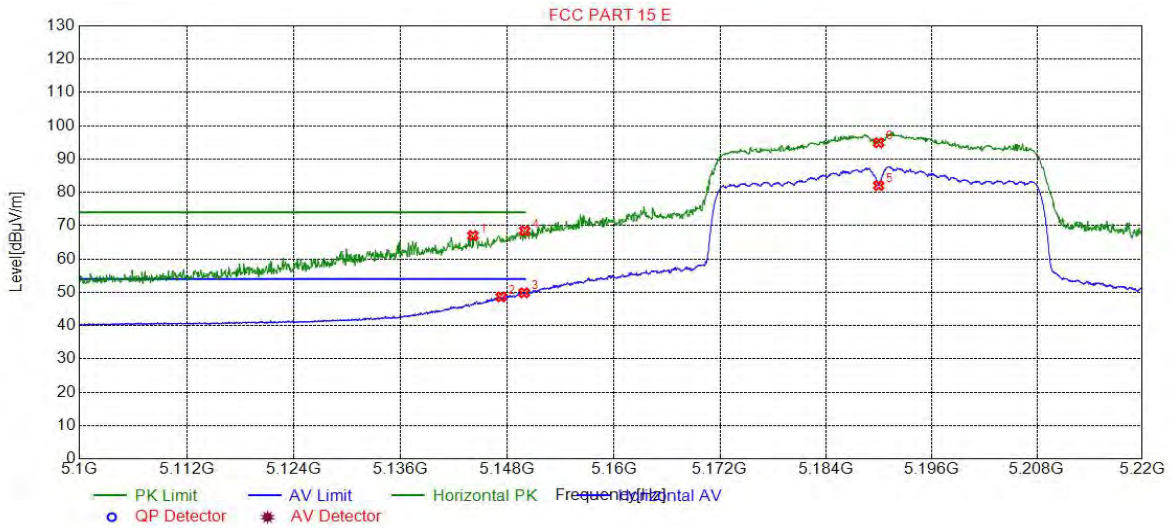
4.10.1.33 802.11N40_Channel 38 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.122	67.04	74.00	6.96	150	160	Horizontal
2	5147.303	48.65	54.00	5.35	150	300	Horizontal
3	5149.884	49.87	54.00	4.13	150	70	Horizontal
4	5149.945	68.47	74.00	5.53	150	80	Horizontal
5	5190.000	82.06	0.00	-82.06	150	160	Horizontal
6	5190.000	94.89	0.00	-94.89	150	220	Horizontal

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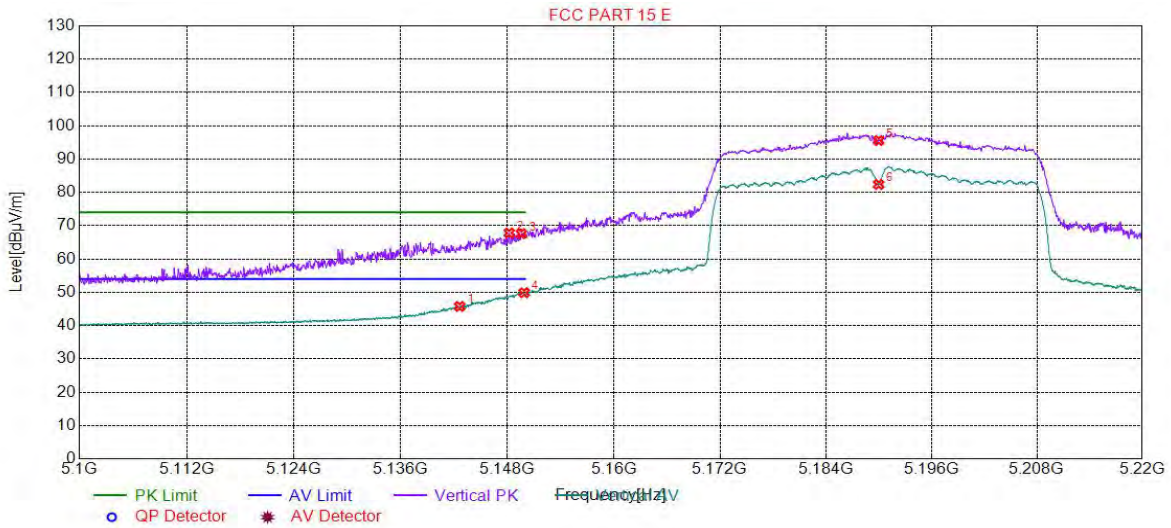
4.10.1.34 802.11N40_Channel 38 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.621	45.78	54.00	8.22	150	0	Vertical
2	5148.204	67.82	74.00	6.18	150	100	Vertical
3	5149.584	67.63	74.00	6.37	150	70	Vertical
4	5149.884	49.90	54.00	4.10	150	90	Vertical
5	5190.000	95.56	0.00	-95.56	150	350	Vertical
6	5190.000	82.39	0.00	-82.39	150	350	Vertical

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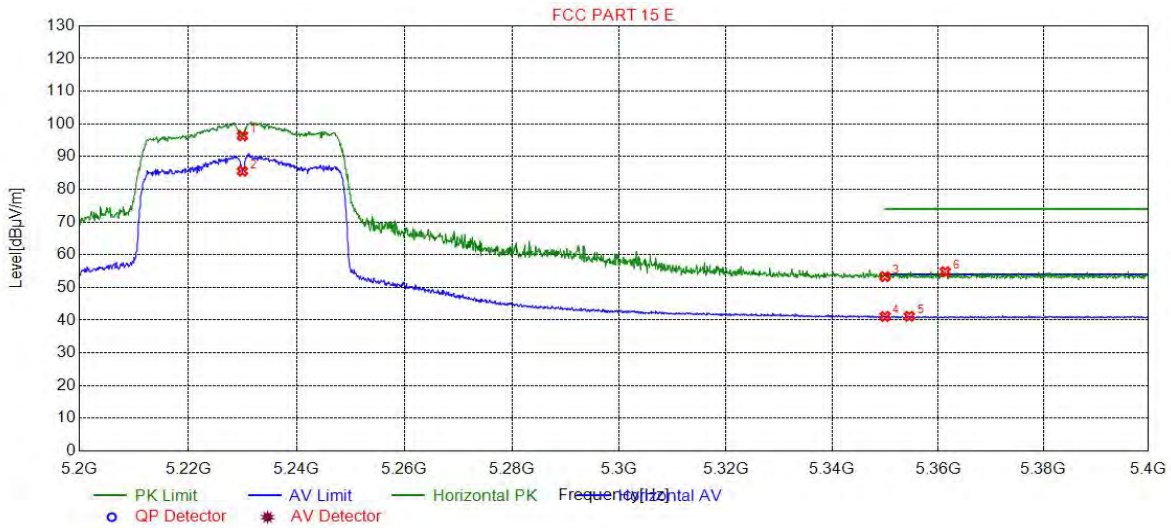
4.10.1.35 802.11N40_Channel 46 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.000	96.39	0.00	-96.39	150	115	Horizontal
2	5230.000	85.56	0.00	-85.56	150	124	Horizontal
3	5350.000	53.33	74.00	20.67	150	267	Horizontal
4	5350.000	41.16	54.00	12.84	150	115	Horizontal
5	5354.577	41.20	54.00	12.80	150	234	Horizontal
6	5361.380	54.82	74.00	19.18	150	310	Horizontal

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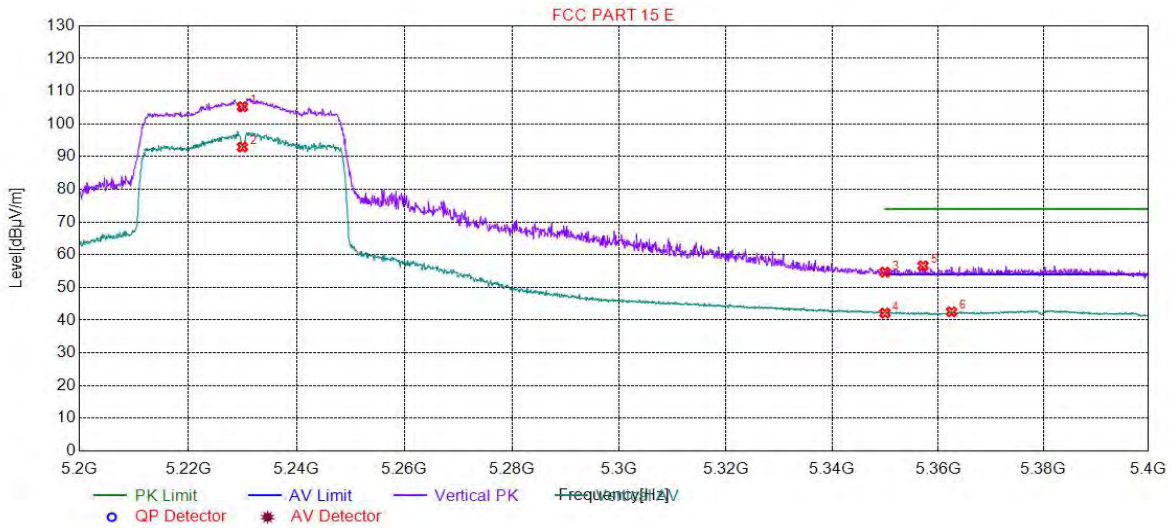
4.10.1.36 802.11N40_Channel 46 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.000	105.26	0.00	-105.26	150	170	Vertical
2	5230.000	92.93	0.00	-92.93	150	161	Vertical
3	5350.000	54.67	74.00	19.33	150	156	Vertical
4	5350.000	42.18	54.00	11.82	150	151	Vertical
5	5357.178	56.64	74.00	17.36	150	151	Vertical
6	5362.581	42.56	54.00	11.44	150	142	Vertical

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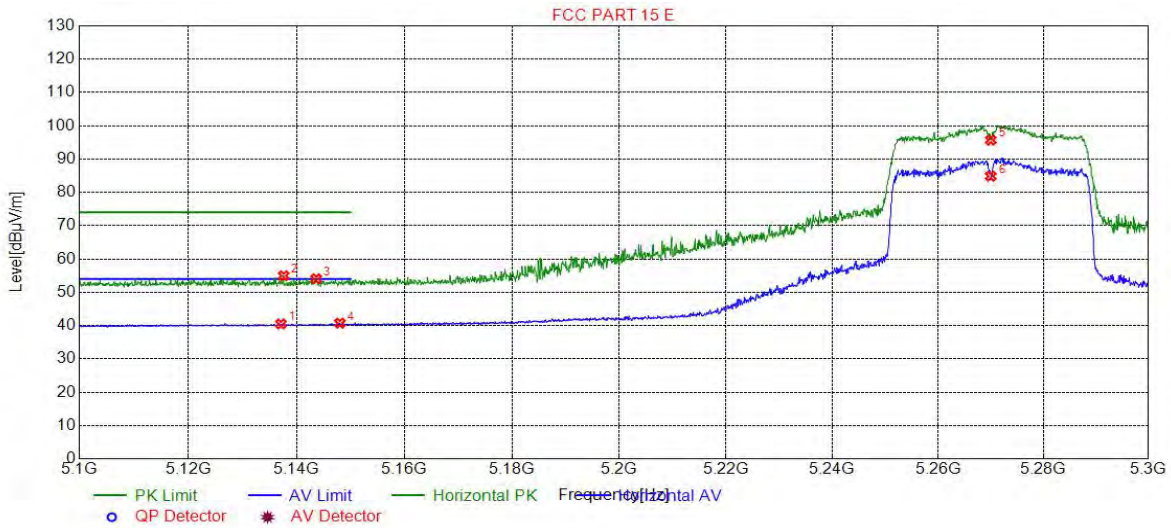
4.10.1.37 802.11N40_Channel 54 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5137.118	40.52	54.00	13.48	150	130	Horizontal
2	5137.618	54.97	74.00	19.03	150	72	Horizontal
3	5143.621	54.09	74.00	19.91	150	291	Horizontal
4	5148.024	40.77	54.00	13.23	150	125	Horizontal
5	5270.000	95.70	0.00	-95.70	150	348	Horizontal
6	5270.000	84.86	0.00	-84.86	150	224	Horizontal

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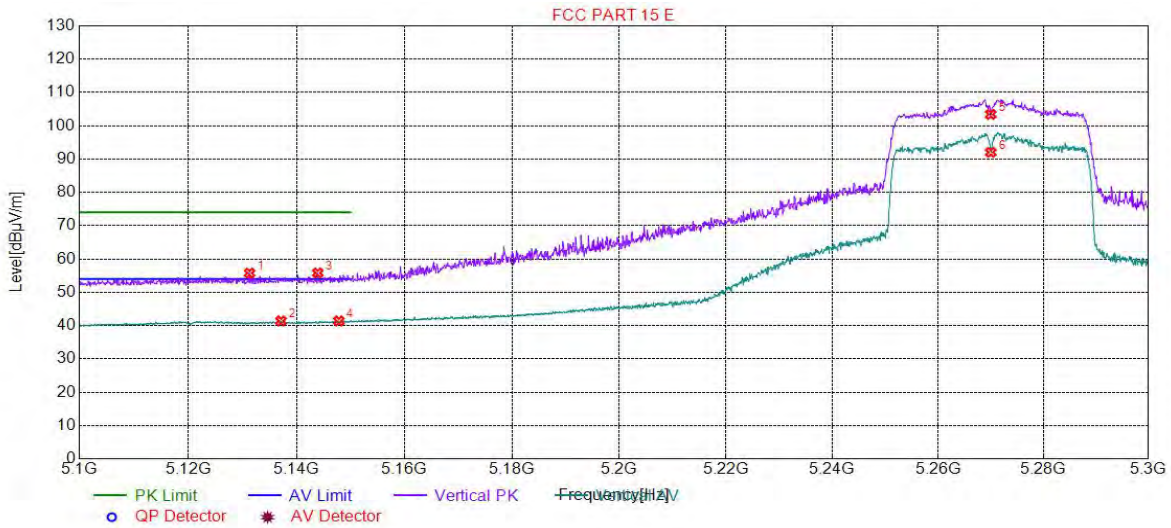
4.10.1.38 802.11N40_Channel 54 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5131.315	55.79	74.00	18.21	150	131	Vertical
2	5137.118	41.41	54.00	12.59	150	94	Vertical
3	5143.922	55.84	74.00	18.16	150	179	Vertical
4	5147.823	41.42	54.00	12.58	150	160	Vertical
5	5270.000	103.42	0.00	-103.42	150	155	Vertical
6	5270.000	92.02	0.00	-92.02	150	165	Vertical

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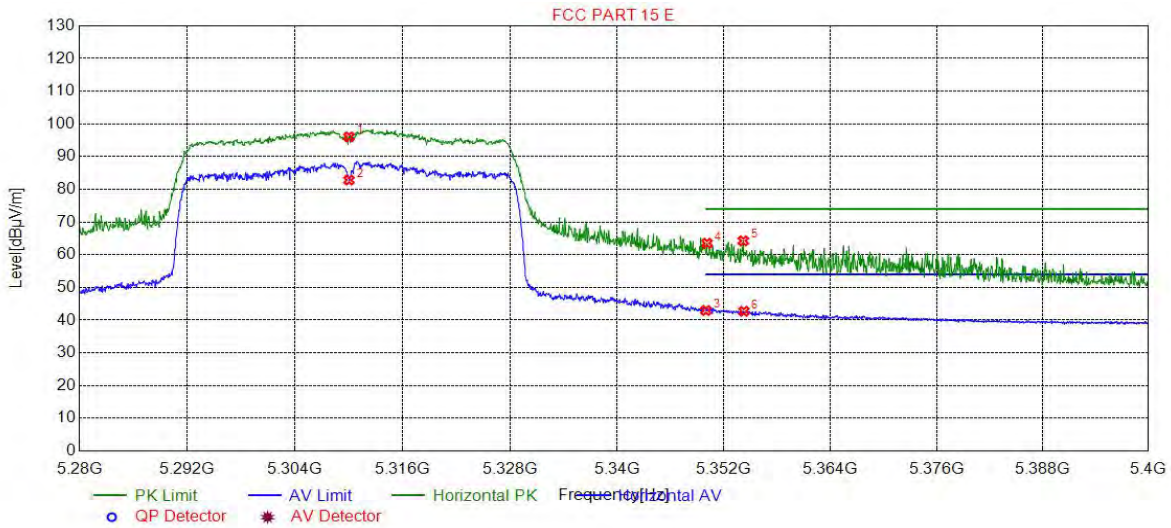
4.10.1.39 802.11N40_Channel 62 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	96.06	0.00	-96.06	150	77	Horizontal
2	5310.000	82.84	0.00	-82.84	150	287	Horizontal
3	5350.000	42.97	54.00	11.03	150	111	Horizontal
4	5350.115	63.54	74.00	10.46	150	121	Horizontal
5	5354.197	64.25	74.00	9.75	150	111	Horizontal
6	5354.257	42.72	54.00	11.28	150	126	Horizontal

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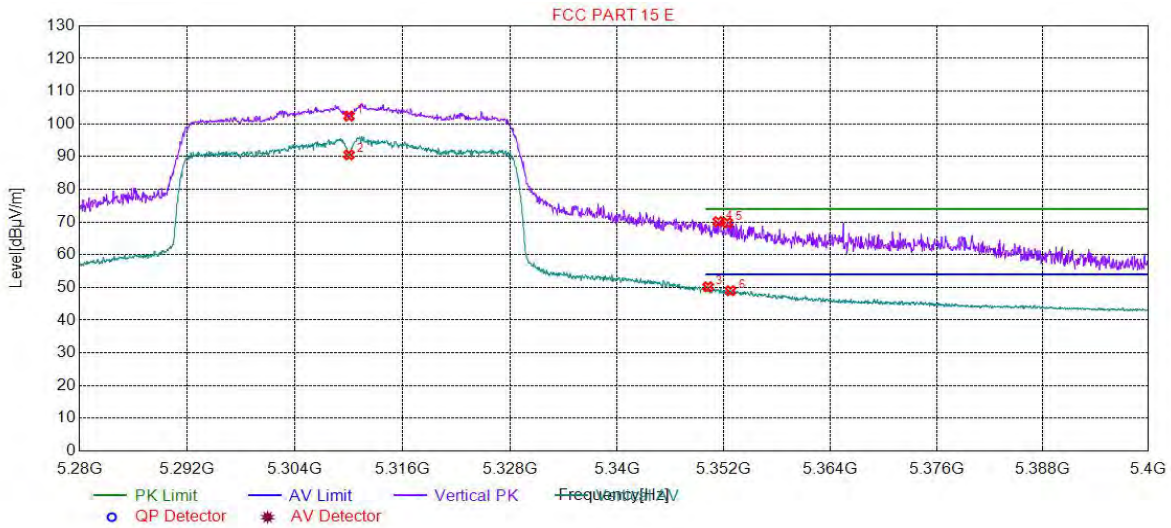
4.10.1.40 802.11N40_Channel 62 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	102.41	0.00	-102.41	150	141	Vertical
2	5310.000	90.55	0.00	-90.55	150	155	Vertical
3	5350.235	50.19	54.00	3.81	150	155	Vertical
4	5351.375	70.16	74.00	3.84	150	93	Vertical
5	5352.396	69.79	74.00	4.21	150	160	Vertical
6	5352.756	49.01	54.00	4.99	150	155	Vertical

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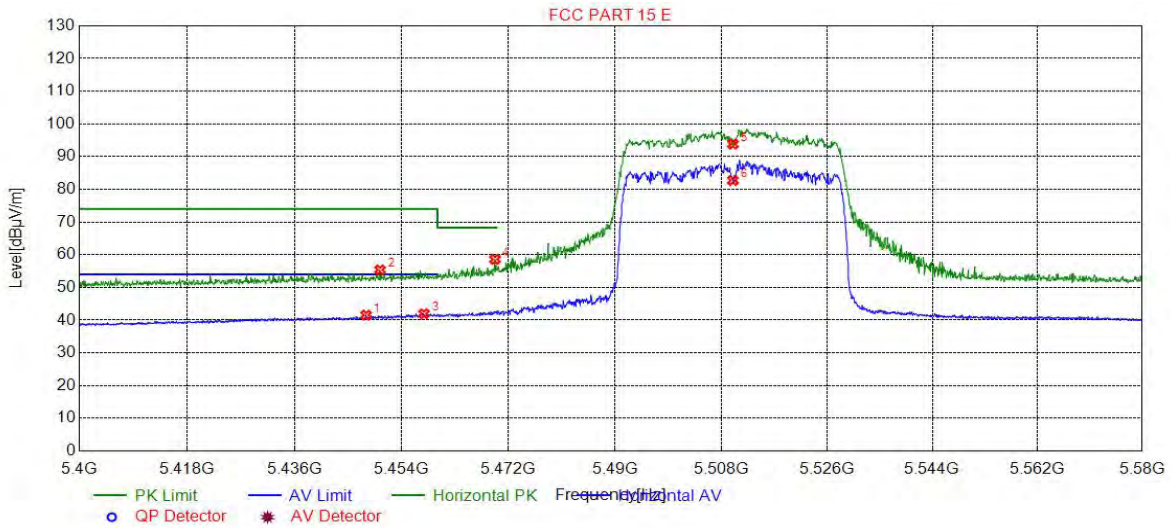
4.10.1.41 802.11N40_Channel 102 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.994	41.56	54.00	12.44	150	297	Horizontal
2	5450.335	55.39	74.00	18.61	150	344	Horizontal
3	5457.718	41.99	54.00	12.01	150	293	Horizontal
4	5469.694	58.62	68.30	9.68	150	279	Horizontal
5	5510.000	93.84	0.00	-93.84	150	274	Horizontal
6	5510.000	82.72	0.00	-82.72	150	288	Horizontal

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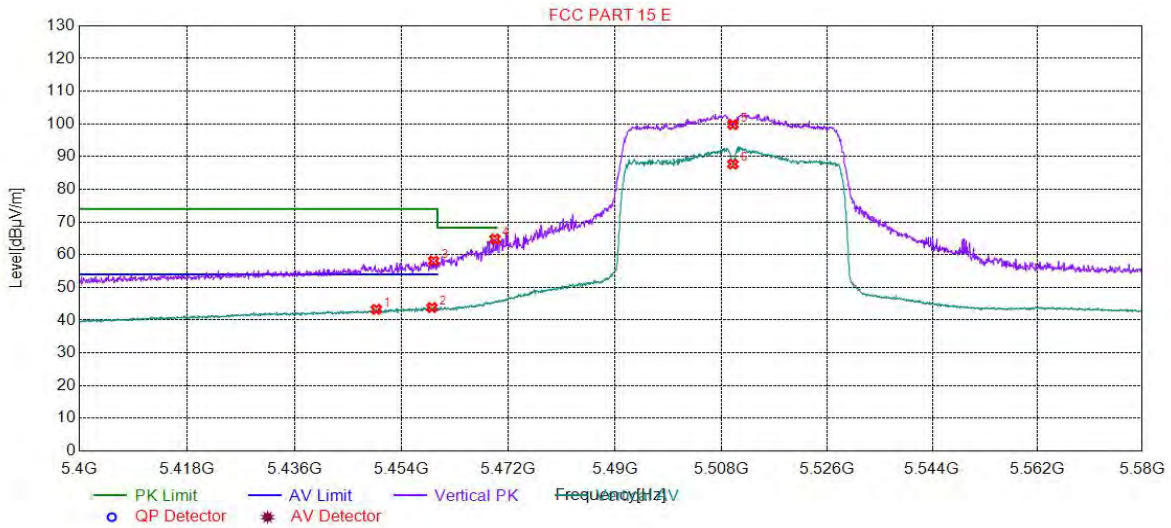
4.10.1.42 802.11N40_Channel 102 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.704	43.32	54.00	10.68	150	151	Vertical
2	5459.069	43.85	54.00	10.15	150	151	Vertical
3	5459.339	58.13	74.00	15.87	150	128	Vertical
4	5469.694	64.82	68.30	3.48	150	123	Vertical
5	5510.000	99.82	0.00	-99.82	150	118	Vertical
6	5510.000	87.74	0.00	-87.74	150	90	Vertical

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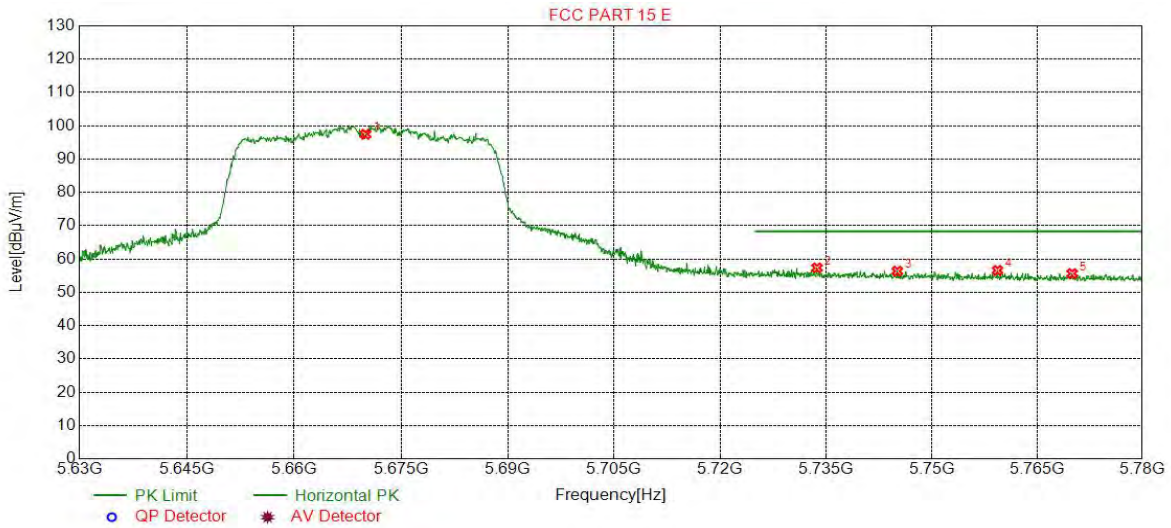
4.10.1.43 802.11N40_Channel 134 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	97.45	0.00	-97.45	150	292	Horizontal
2	5733.701	57.35	68.30	10.95	150	281	Horizontal
3	5745.107	56.37	68.30	11.93	150	263	Horizontal
4	5759.364	56.58	68.30	11.72	150	285	Horizontal
5	5770.020	55.65	68.30	12.65	150	295	Horizontal

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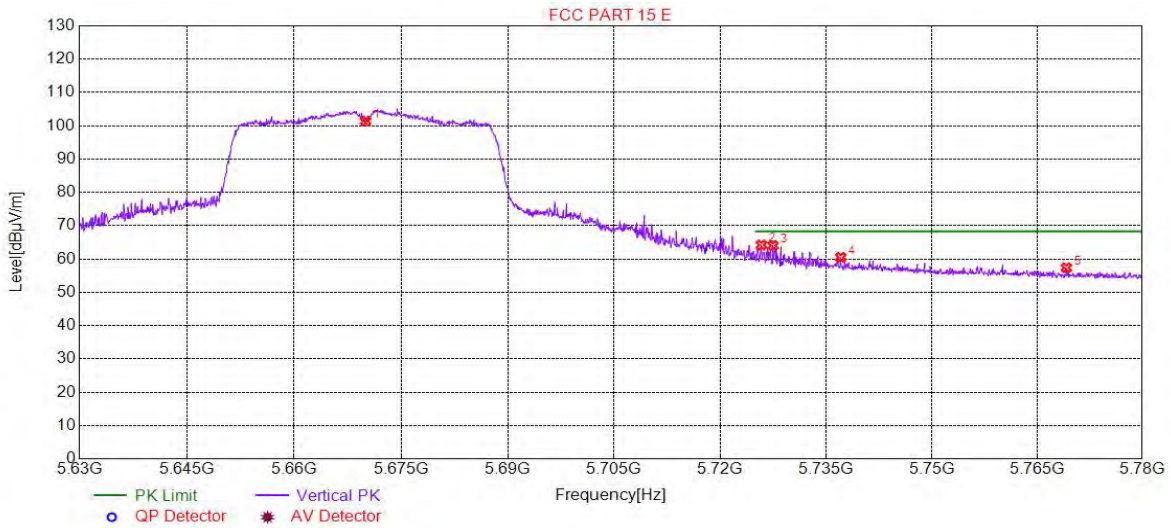
4.10.1.44 802.11N40_Channel 134 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	101.39	0.00	-101.39	150	93	Vertical
2	5725.822	64.24	68.30	4.06	150	96	Vertical
3	5727.473	64.03	68.30	4.27	150	103	Vertical
4	5737.078	60.52	68.30	7.78	150	86	Vertical
5	5769.194	57.38	68.30	10.92	150	86	Vertical

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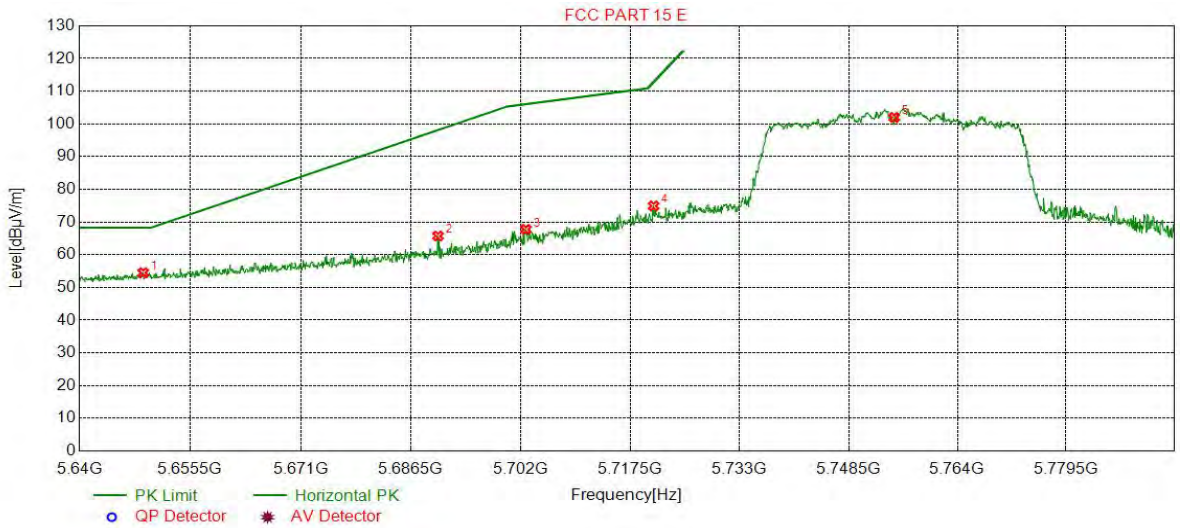
4.10.1.45 802.11N40_Channel 151 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5648.917	54.52	68.30	13.78	150	274	Horizontal
2	5690.322	65.75	98.14	32.39	150	267	Horizontal
3	5702.728	67.77	106.06	38.29	150	256	Horizontal
4	5720.795	74.94	112.71	37.77	150	260	Horizontal
5	5755.000	101.99	0.00	-101.99	150	270	Horizontal

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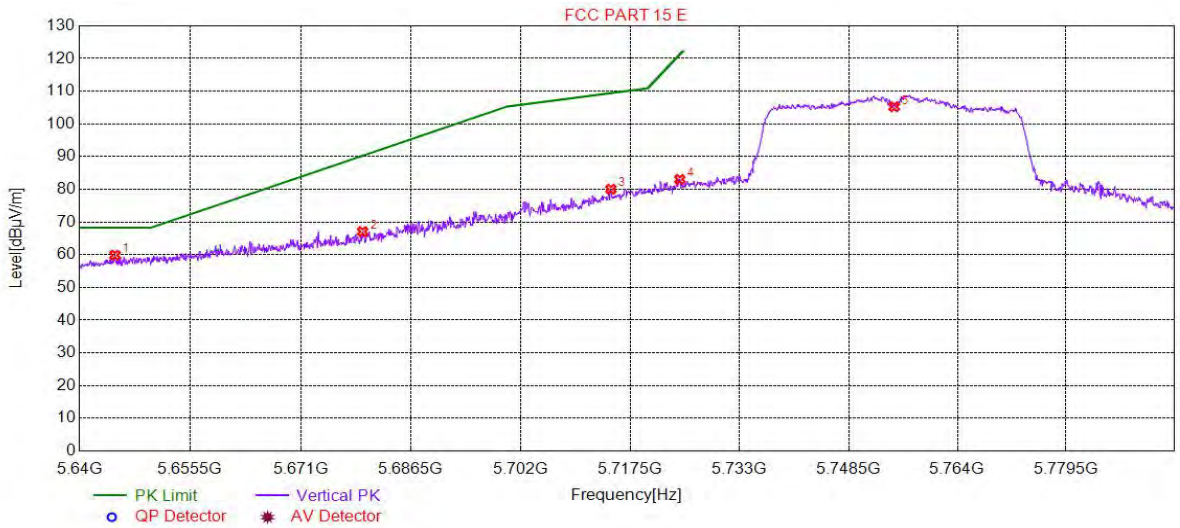
4.10.1.46 802.11N40_Channel 151 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.962	59.92	68.30	8.38	150	100	Vertical
2	5679.699	67.09	90.28	23.19	150	96	Vertical
3	5714.747	80.05	109.43	29.38	150	86	Vertical
4	5724.517	83.06	121.20	38.14	150	104	Vertical
5	5755.000	105.25	0.00	-105.25	150	96	Vertical

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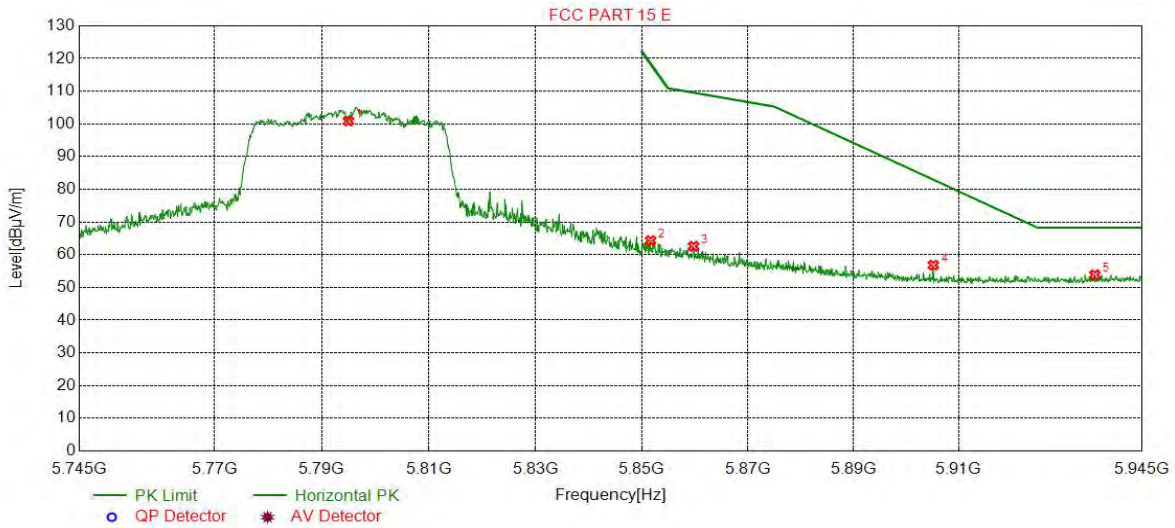
4.10.1.47 802.11N40_Channel 159 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	100.88	0.00	-100.88	150	267	Horizontal
2	5851.653	64.34	118.53	54.19	150	263	Horizontal
3	5859.757	62.58	109.57	46.99	150	256	Horizontal
4	5905.180	56.83	82.97	26.14	150	260	Horizontal
5	5935.995	53.90	68.30	14.40	150	256	Horizontal

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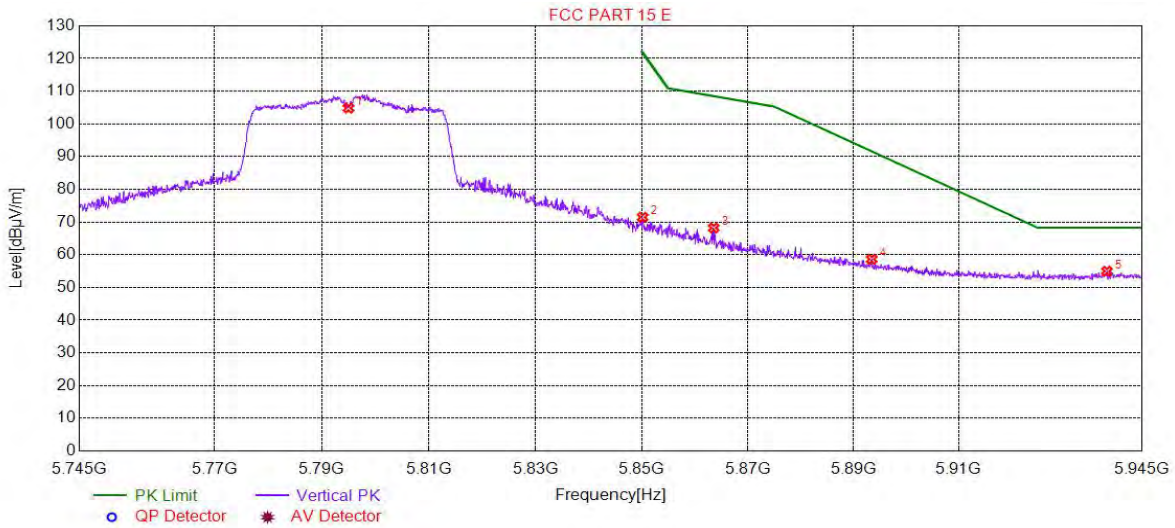
4.10.1.48 802.11N40_Channel 159 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	104.84	0.00	-104.84	150	98	Vertical
2	5850.152	71.49	121.95	50.46	150	80	Vertical
3	5863.559	68.20	108.50	40.30	150	87	Vertical
4	5893.474	58.64	91.63	32.99	150	91	Vertical
5	5938.296	54.96	68.30	13.34	150	136	Vertical

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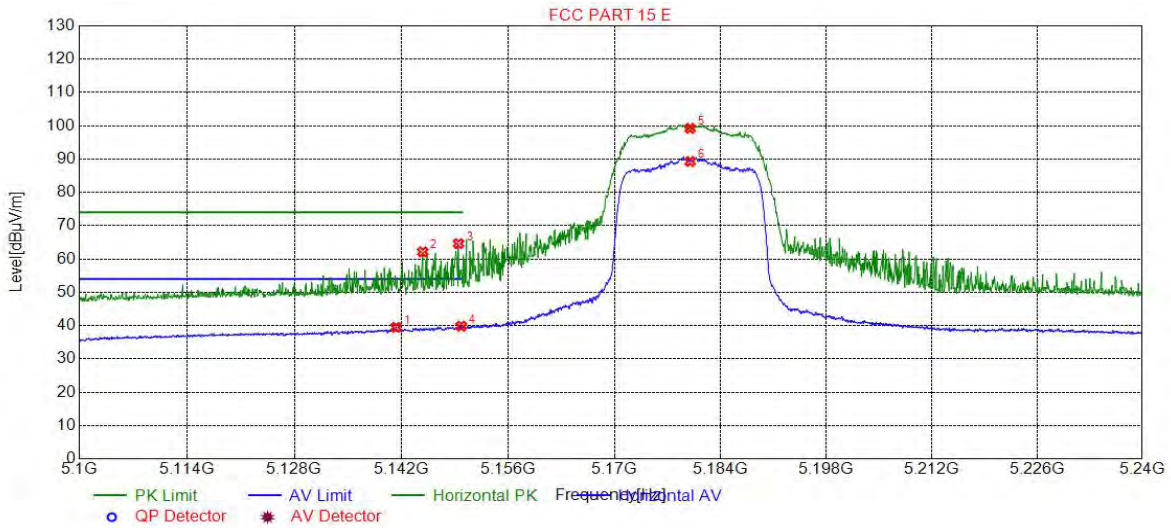
4.10.1.49 802.11AC20_Channel 36 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5141.320	39.50	54.00	14.50	150	122	Horizontal
2	5144.822	62.15	74.00	11.85	150	126	Horizontal
3	5149.514	64.63	74.00	9.37	150	130	Horizontal
4	5149.864	39.87	54.00	14.13	150	118	Horizontal
5	5180.000	99.24	0.00	-99.24	150	130	Horizontal
6	5180.000	89.28	0.00	-89.28	150	118	Horizontal

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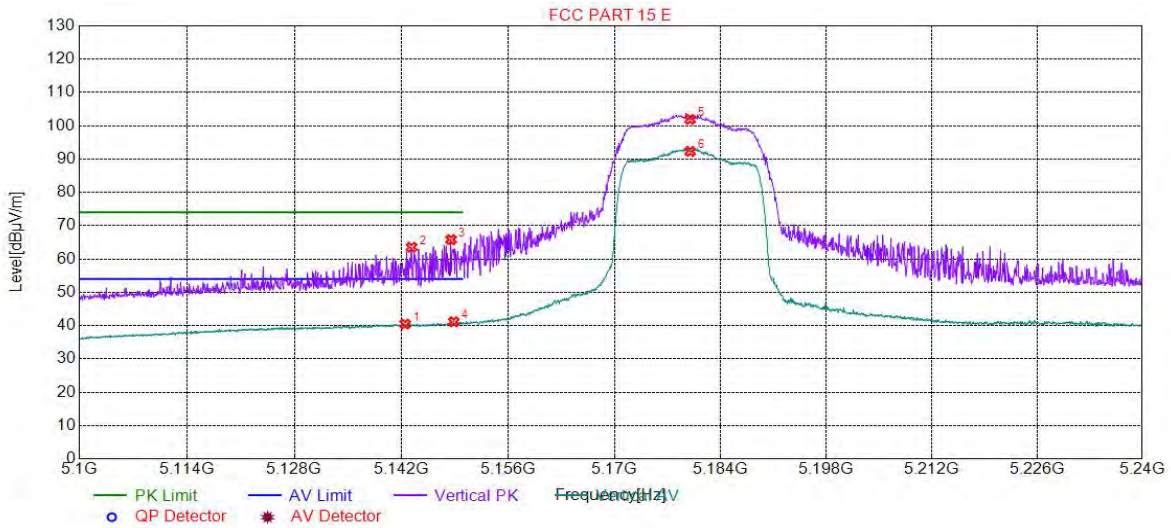
4.10.1.50 802.11AC20_Channel 36 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.511	40.47	54.00	13.53	150	161	Vertical
2	5143.351	63.54	74.00	10.46	150	169	Vertical
3	5148.534	65.83	74.00	8.17	150	200	Vertical
4	5148.884	41.17	54.00	12.83	150	169	Vertical
5	5180.000	101.94	0.00	-101.94	150	161	Vertical
6	5180.000	92.30	0.00	-92.30	150	184	Vertical

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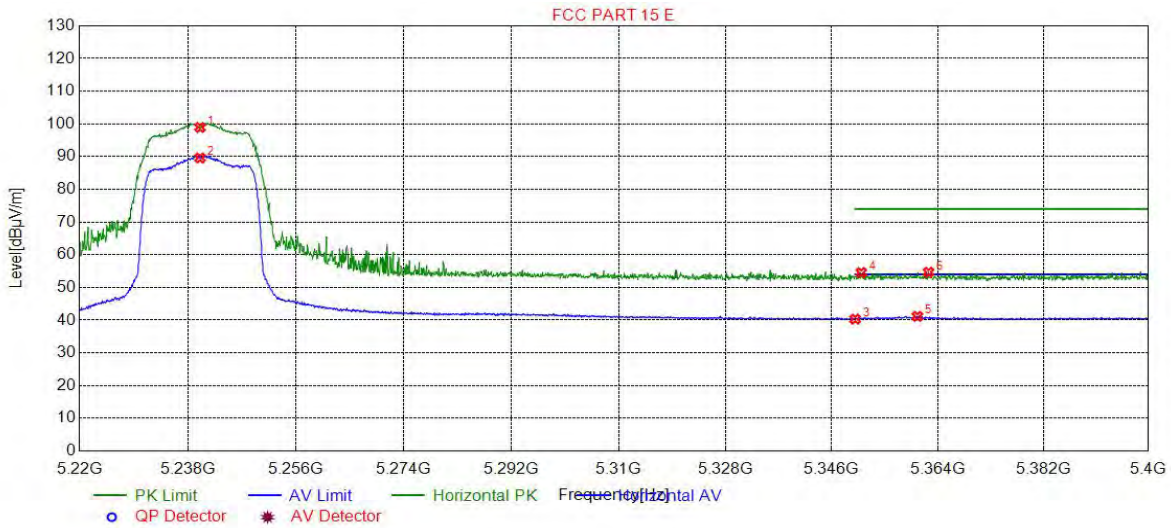
4.10.1.51 802.11AC20_Channel 48 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.000	98.93	0.00	-98.93	150	116	Horizontal
2	5240.000	89.59	0.00	-89.59	150	116	Horizontal
3	5350.000	40.33	54.00	13.67	150	116	Horizontal
4	5351.015	54.56	74.00	19.44	150	152	Horizontal
5	5360.560	41.18	54.00	12.82	150	116	Horizontal
6	5362.451	54.68	74.00	19.32	150	177	Horizontal

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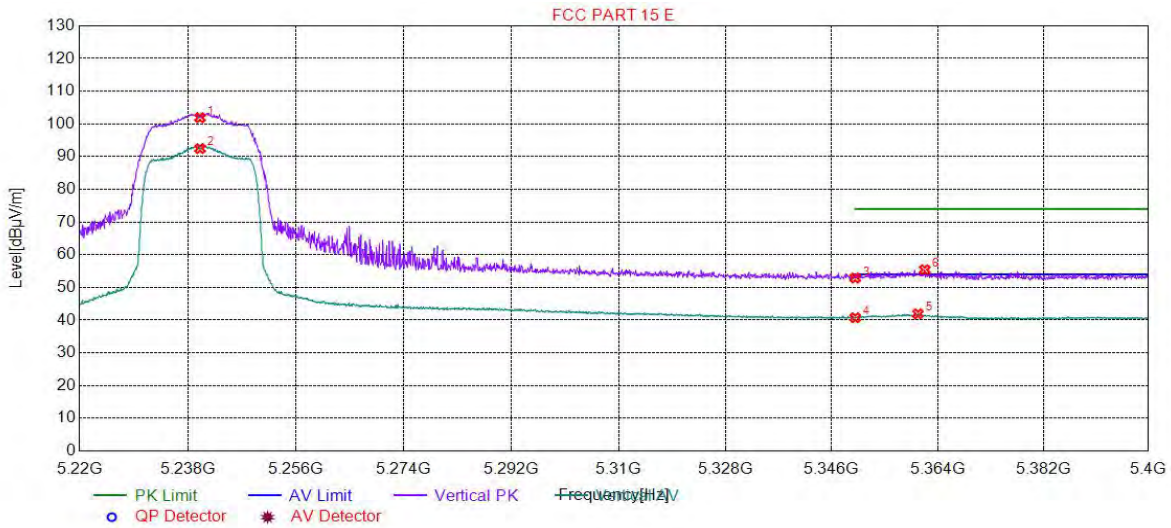
4.10.1.52 802.11AC20_Channel 48 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.000	101.91	0.00	-101.91	150	268	Vertical
2	5240.000	92.47	0.00	-92.47	150	186	Vertical
3	5350.000	52.88	74.00	21.12	150	191	Vertical
4	5350.000	40.76	54.00	13.24	150	244	Vertical
5	5360.650	41.93	54.00	12.07	150	254	Vertical
6	5361.820	55.44	74.00	18.56	150	177	Vertical

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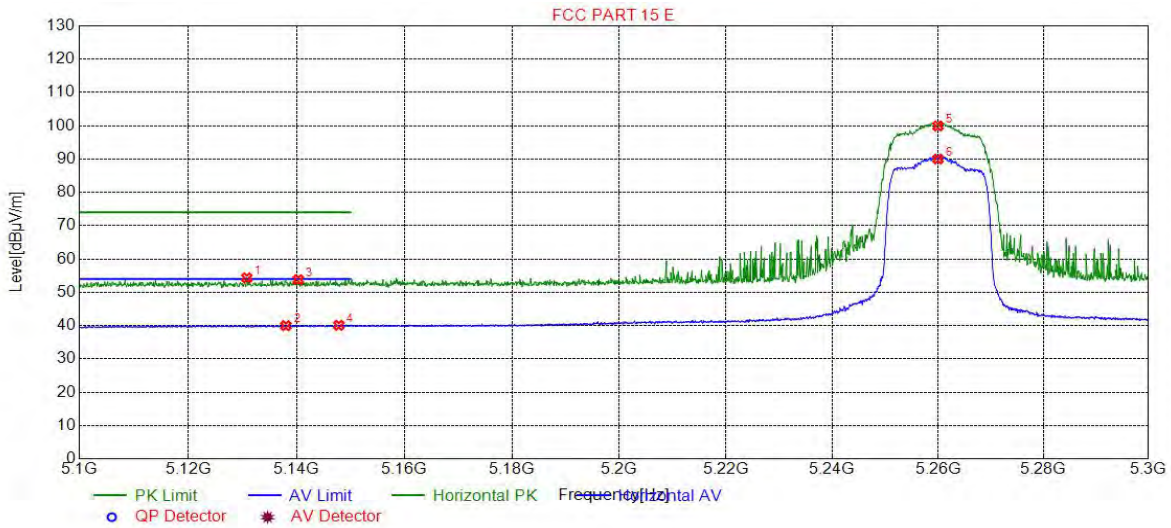
4.10.1.53 802.11AC20_Channel 52 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.815	54.36	74.00	19.64	150	142	Horizontal
2	5138.019	40.00	54.00	14.00	150	118	Horizontal
3	5140.320	53.82	74.00	20.18	150	247	Horizontal
4	5147.823	40.12	54.00	13.88	150	122	Horizontal
5	5260.000	99.95	0.00	-99.95	150	118	Horizontal
6	5260.000	90.03	0.00	-90.03	150	122	Horizontal

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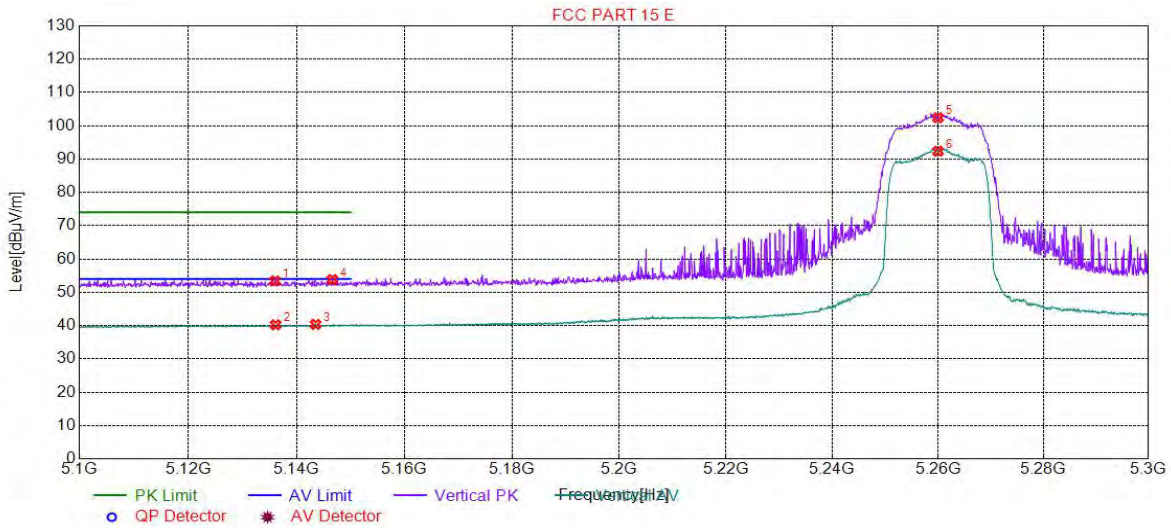
4.10.1.54 802.11AC20_Channel 52 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5136.018	53.47	74.00	20.53	150	126	Vertical
2	5136.118	40.27	54.00	13.73	150	151	Vertical
3	5143.521	40.38	54.00	13.62	150	194	Vertical
4	5146.623	53.83	74.00	20.17	150	295	Vertical
5	5260.000	102.41	0.00	-102.41	150	266	Vertical
6	5260.000	92.38	0.00	-92.38	150	184	Vertical

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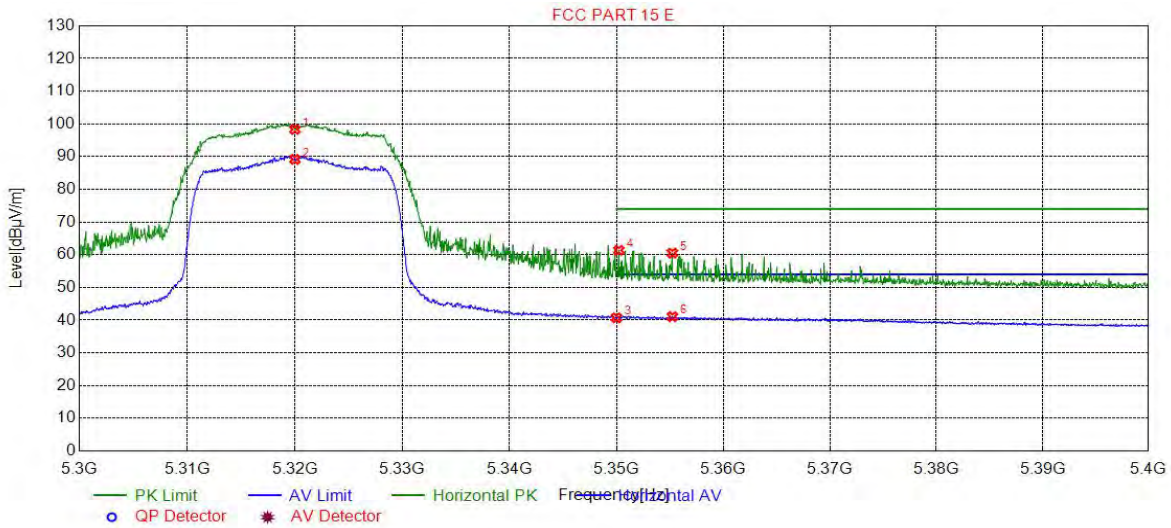
4.10.1.55 802.11AC20_Channel 64 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.000	98.31	0.00	-98.31	150	127	Horizontal
2	5320.000	89.17	0.00	-89.17	150	127	Horizontal
3	5350.000	40.73	54.00	13.27	150	112	Horizontal
4	5350.225	61.38	74.00	12.62	150	127	Horizontal
5	5355.227	60.54	74.00	13.46	150	117	Horizontal
6	5355.227	41.09	54.00	12.91	150	127	Horizontal

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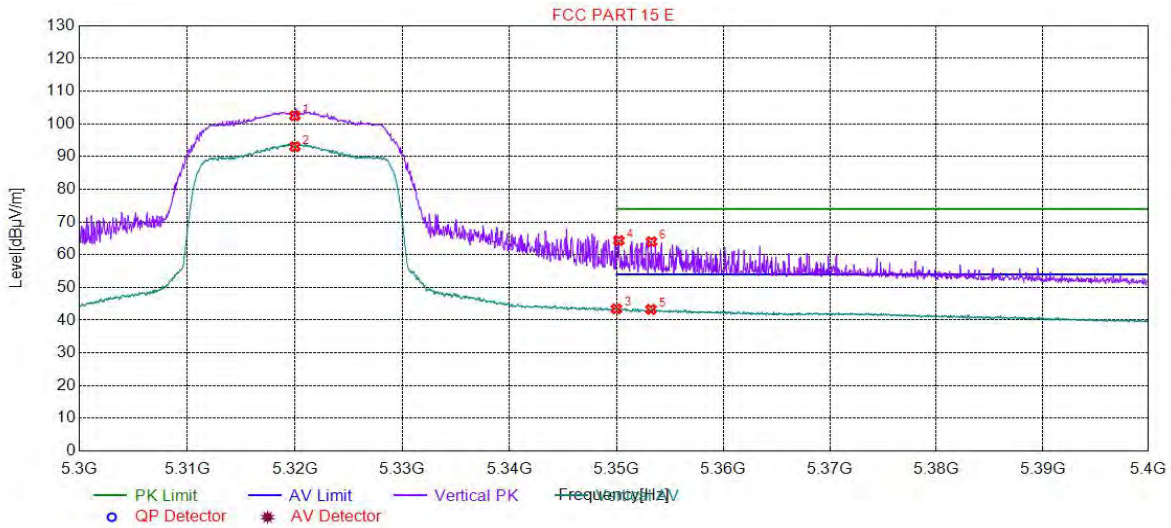
4.10.1.56 802.11AC20_Channel 64 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.000	102.51	0.00	-102.51	150	180	Vertical
2	5320.000	93.06	0.00	-93.06	150	282	Vertical
3	5350.000	43.46	54.00	10.54	150	185	Vertical
4	5350.225	64.37	74.00	9.63	150	180	Vertical
5	5353.226	43.29	54.00	10.71	150	176	Vertical
6	5353.276	64.00	74.00	10.00	150	190	Vertical

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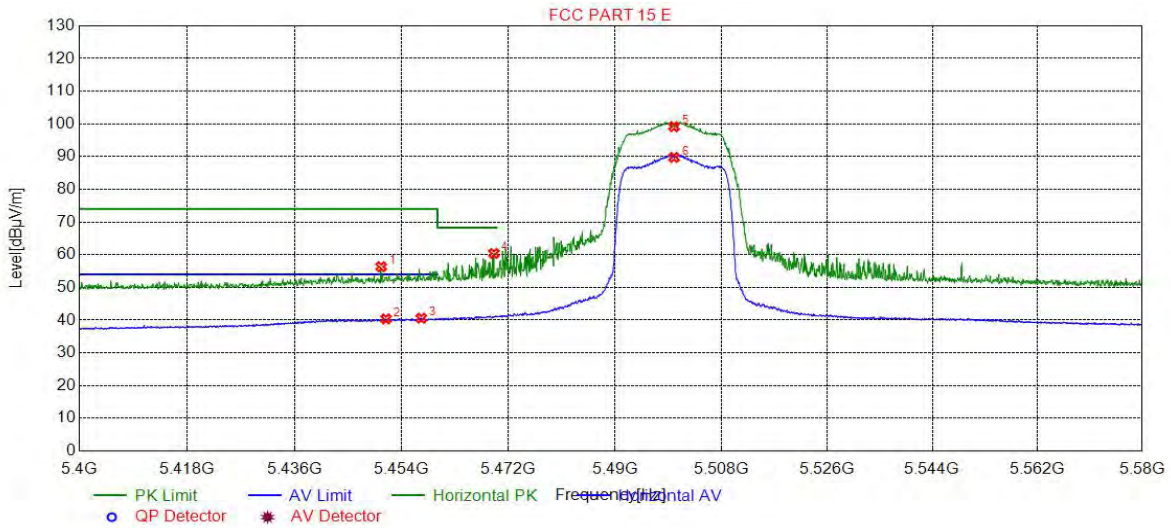
4.10.1.57 802.11AC20_Channel 100 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.515	56.35	74.00	17.65	150	125	Horizontal
2	5451.325	40.40	54.00	13.60	150	125	Horizontal
3	5457.268	40.61	54.00	13.39	150	121	Horizontal
4	5469.514	60.41	68.30	7.89	150	239	Horizontal
5	5500.000	99.18	0.00	-99.18	150	121	Horizontal
6	5500.000	89.76	0.00	-89.76	150	297	Horizontal

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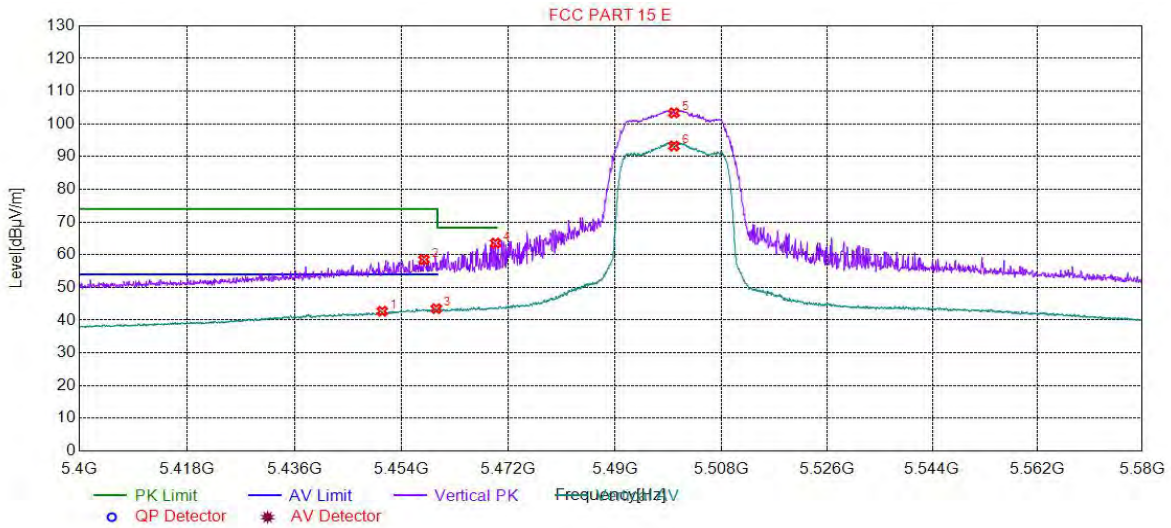
4.10.1.58 802.11AC20_Channel 100 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.695	42.74	54.00	11.26	150	266	Vertical
2	5457.718	58.54	74.00	15.46	150	270	Vertical
3	5459.789	43.53	54.00	10.47	150	266	Vertical
4	5469.784	63.59	68.30	4.71	150	285	Vertical
5	5500.000	103.38	0.00	-103.38	150	273	Vertical
6	5500.000	93.27	0.00	-93.27	150	173	Vertical

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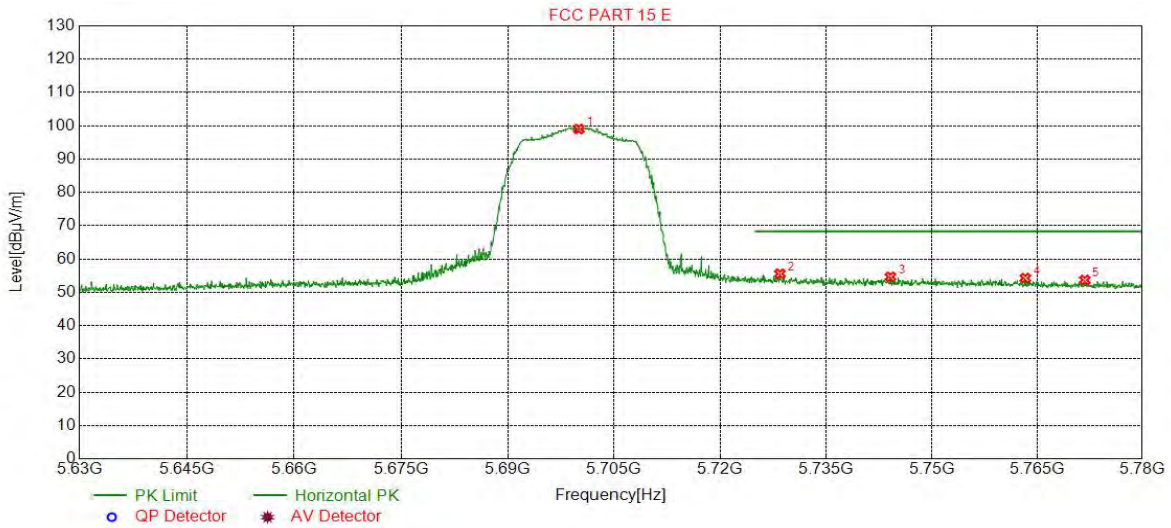
4.10.1.59 802.11AC20_Channel 140 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	99.02	0.00	-99.02	150	276	Horizontal
2	5728.449	55.58	68.30	12.72	150	262	Horizontal
3	5744.132	54.65	68.30	13.65	150	276	Horizontal
4	5763.341	54.25	68.30	14.05	150	122	Horizontal
5	5771.820	53.68	68.30	14.62	150	295	Horizontal

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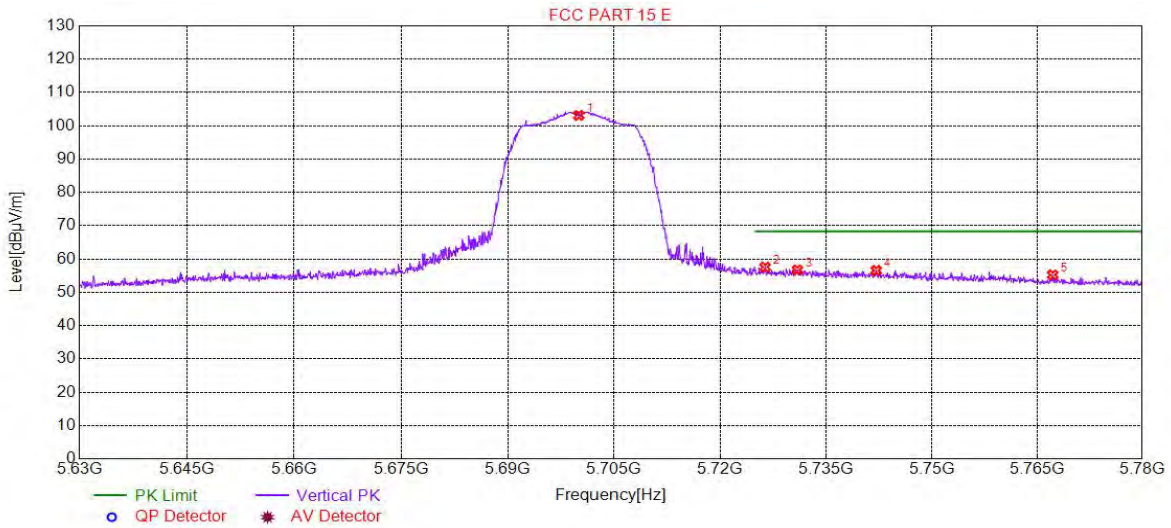
4.10.1.60 802.11AC20_Channel 140 MIMO



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1	5700.000	103.11	0.00	-103.11	150	259	Vertical
2	5726.348	57.58	68.30	10.72	150	252	Vertical
3	5730.925	56.72	68.30	11.58	150	266	Vertical
4	5742.106	56.59	68.30	11.71	150	248	Vertical
5	5767.243	55.26	68.30	13.04	150	273	Vertical

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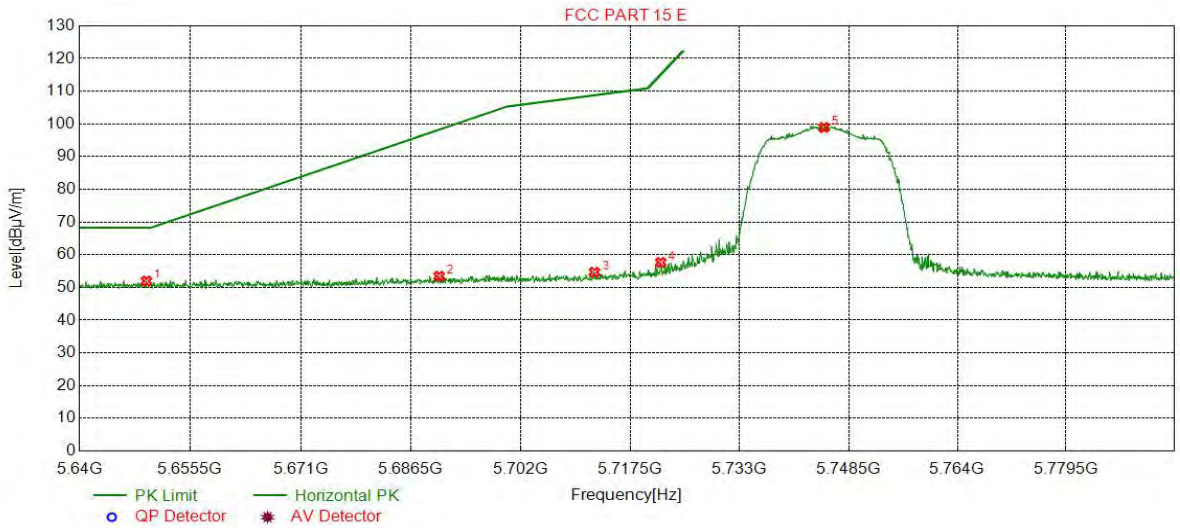
4.10.1.61 802.11AC20_Channel 149 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5649.382	51.97	68.30	16.33	150	166	Horizontal
2	5690.477	53.46	98.25	44.79	150	323	Horizontal
3	5712.421	54.66	108.78	54.12	150	263	Horizontal
4	5721.803	57.67	115.01	57.34	150	274	Horizontal
5	5745.000	98.90	0.00	-98.90	150	288	Horizontal

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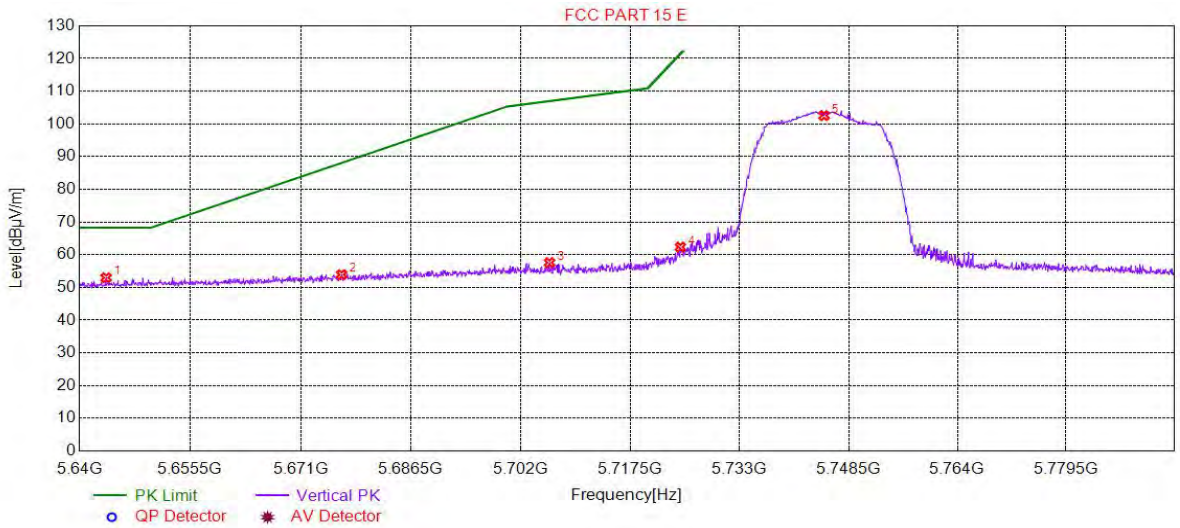
4.10.1.62 802.11AC20_Channel 149 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.721	52.98	68.30	15.32	150	255	Vertical
2	5676.753	53.93	88.10	34.17	150	330	Vertical
3	5706.063	57.60	107.00	49.40	150	244	Vertical
4	5724.594	62.35	121.38	59.03	150	244	Vertical
5	5745.000	102.54	0.00	-102.54	150	262	Vertical

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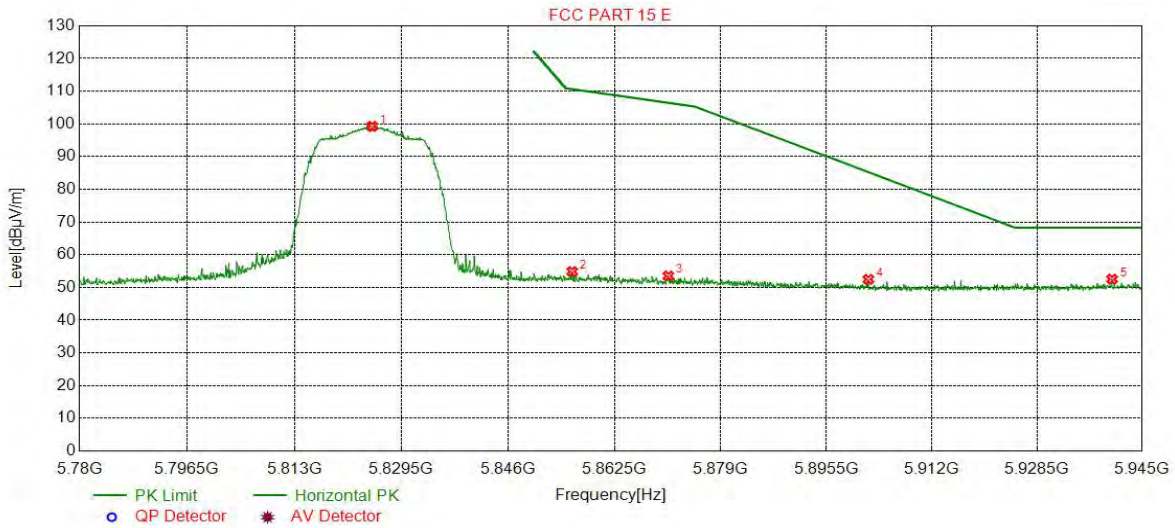
4.10.1.63 802.11AC20_Channel 165 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.000	99.29	0.00	-99.29	150	260	Horizontal
2	5855.938	54.87	110.64	55.77	150	324	Horizontal
3	5870.877	53.54	106.45	52.91	150	321	Horizontal
4	5902.078	52.49	85.26	32.77	150	296	Horizontal
5	5940.295	52.54	68.30	15.76	150	270	Horizontal

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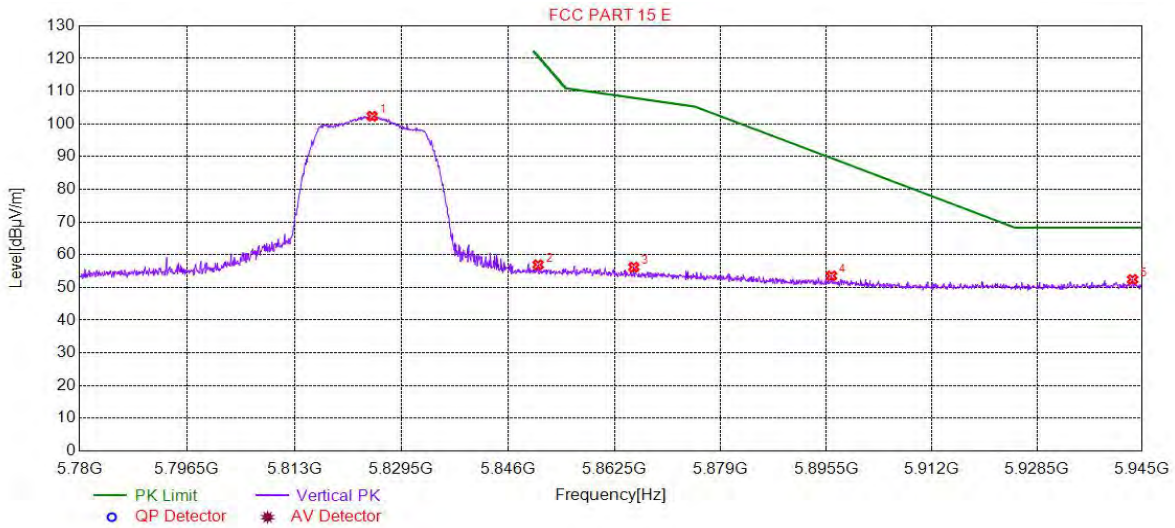
4.10.1.64 802.11AC20_Channel 165 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.000	102.37	0.00	-102.37	150	248	Vertical
2	5850.655	56.95	120.81	63.86	150	341	Vertical
3	5865.512	56.23	107.96	51.73	150	344	Vertical
4	5896.300	53.56	89.54	35.98	150	198	Vertical
5	5943.514	52.46	68.30	15.84	150	344	Vertical

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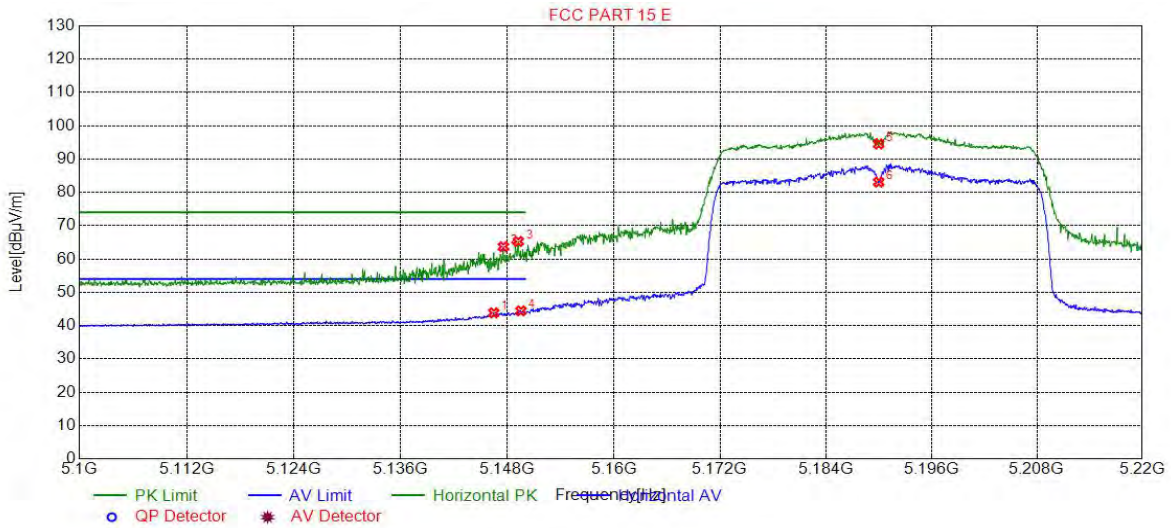
4.10.1.65 802.11AC40_Channel 38 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5146.463	43.86	54.00	10.14	150	118	Horizontal
2	5147.543	63.71	74.00	10.29	150	111	Horizontal
3	5149.224	65.29	74.00	8.71	150	118	Horizontal
4	5149.524	44.44	54.00	9.56	150	114	Horizontal
5	5190.000	94.52	0.00	-94.52	150	114	Horizontal
6	5190.000	83.08	0.00	-83.08	150	111	Horizontal

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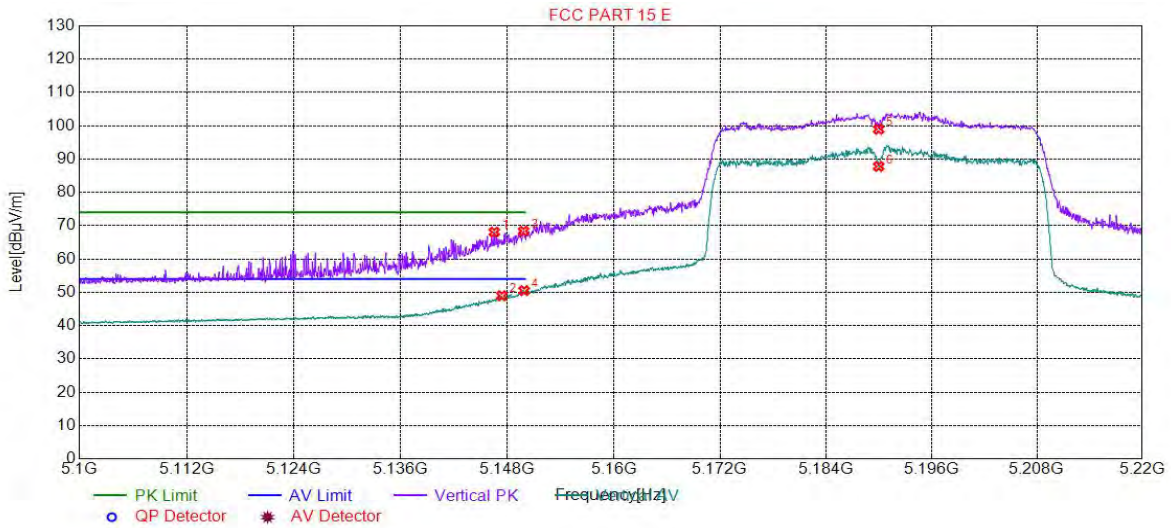
4.10.1.66 802.11AC40_Channel 38 MIMO



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1	5146.523	68.10	74.00	5.90	150	85	Vertical
2	5147.363	48.99	54.00	5.01	150	161	Vertical
3	5149.824	68.37	74.00	5.63	150	97	Vertical
4	5149.884	50.52	54.00	3.48	150	161	Vertical
5	5190.000	98.96	0.00	-98.96	150	138	Vertical
6	5190.000	87.78	0.00	-87.78	150	153	Vertical

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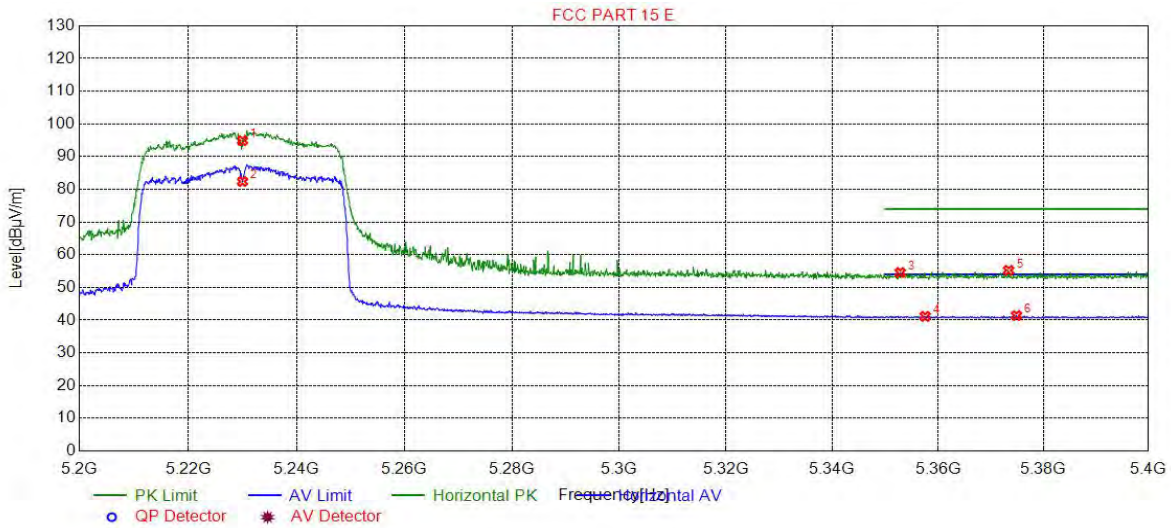
4.10.1.67 802.11AC40_Channel 46 MIMO



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1	5230.000	94.90	0.00	-94.90	150	113	Horizontal
2	5230.000	82.40	0.00	-82.40	150	108	Horizontal
3	5352.876	54.59	74.00	19.41	150	278	Horizontal
4	5357.578	41.18	54.00	12.82	150	288	Horizontal
5	5373.386	55.25	74.00	18.75	150	311	Horizontal
6	5374.887	41.41	54.00	12.59	150	340	Horizontal

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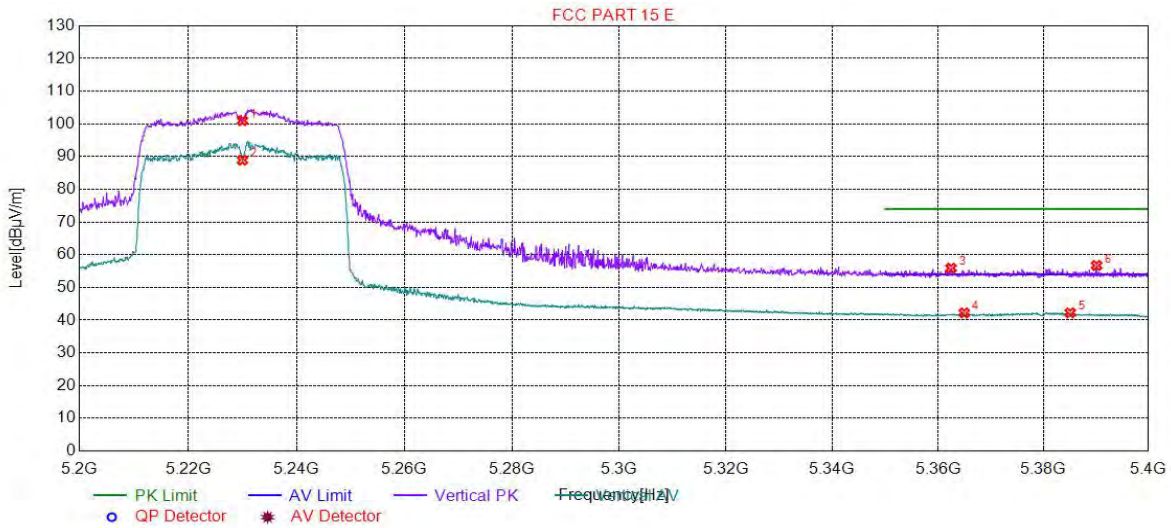
4.10.1.68 802.11AC40_Channel 46 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.000	101.01	0.00	-101.01	150	161	Vertical
2	5230.000	88.92	0.00	-88.92	150	147	Vertical
3	5362.481	55.91	74.00	18.09	150	119	Vertical
4	5364.982	42.23	54.00	11.77	150	147	Vertical
5	5385.092	42.26	54.00	11.74	150	138	Vertical
6	5390.095	56.74	74.00	17.26	150	81	Vertical

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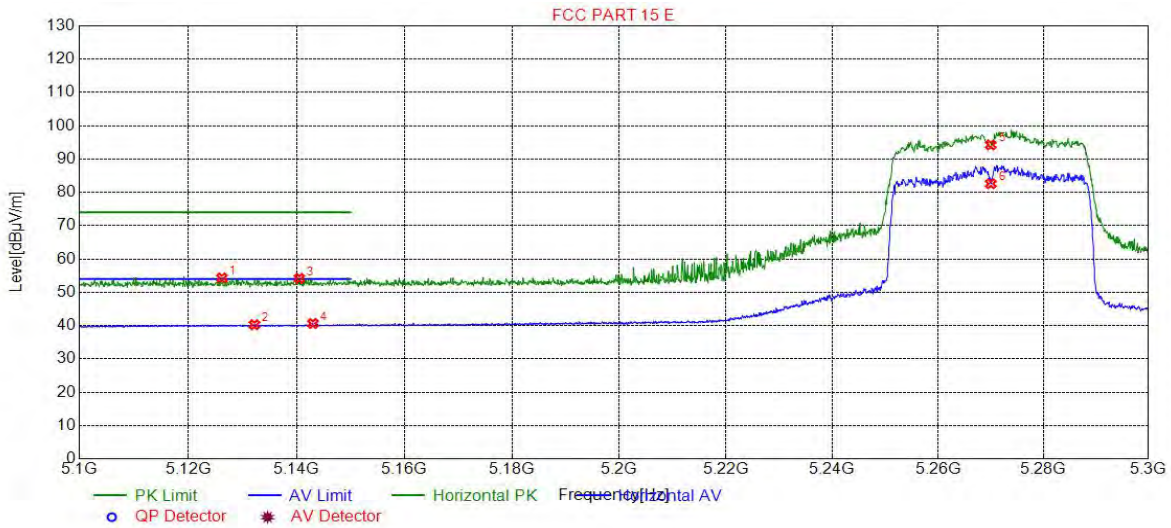
4.10.1.69 802.11AC40_Channel 54 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.213	54.34	74.00	19.66	150	169	Horizontal
2	5132.216	40.29	54.00	13.71	150	117	Horizontal
3	5140.520	54.19	74.00	19.81	150	146	Horizontal
4	5143.021	40.66	54.00	13.34	150	108	Horizontal
5	5270.000	94.26	0.00	-94.26	150	340	Horizontal
6	5270.000	82.60	0.00	-82.60	150	344	Horizontal

Final Data List

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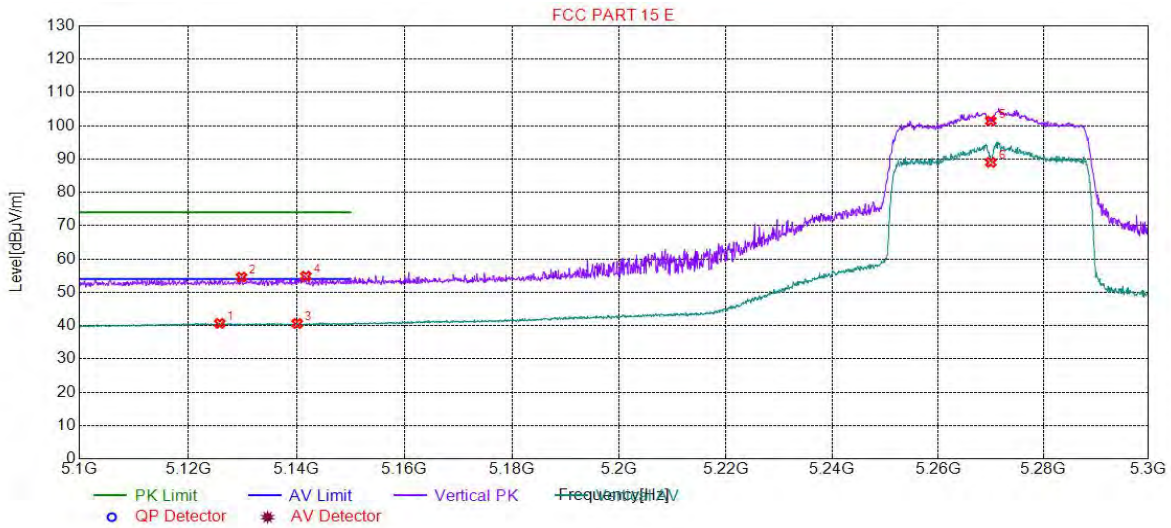
4.10.1.70 802.11AC40_Channel 54 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5125.812	40.68	54.00	13.32	150	157	Vertical
2	5129.814	54.58	74.00	19.42	150	16	Vertical
3	5140.120	40.64	54.00	13.36	150	171	Vertical
4	5141.720	54.84	74.00	19.16	150	105	Vertical
5	5270.000	101.47	0.00	-101.47	150	162	Vertical
6	5270.000	89.00	0.00	-89.00	150	157	Vertical

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