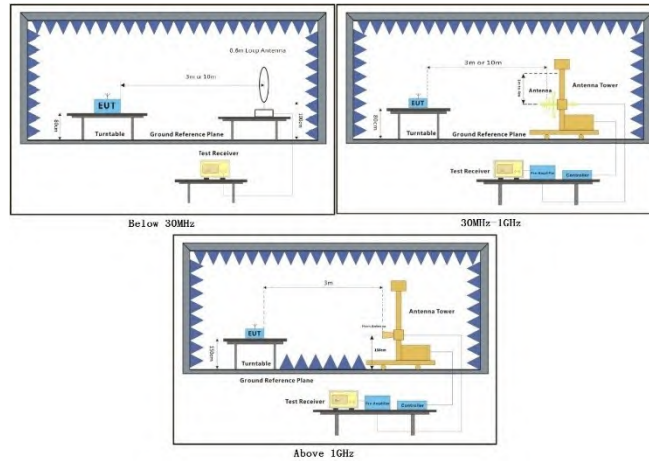


	Code	
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

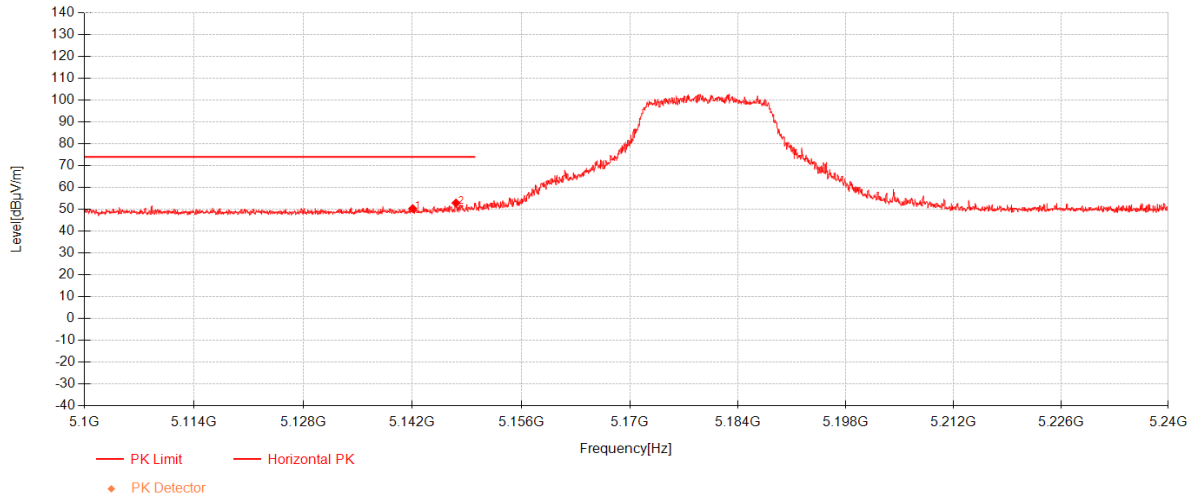
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

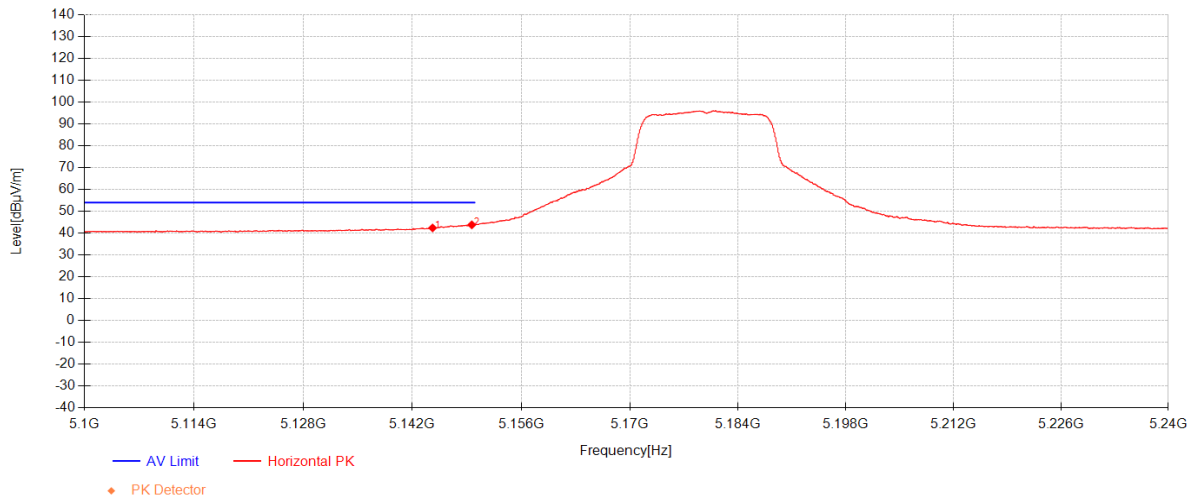
Remark 3: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11a_TX_CH_36_Horizontal_Peak



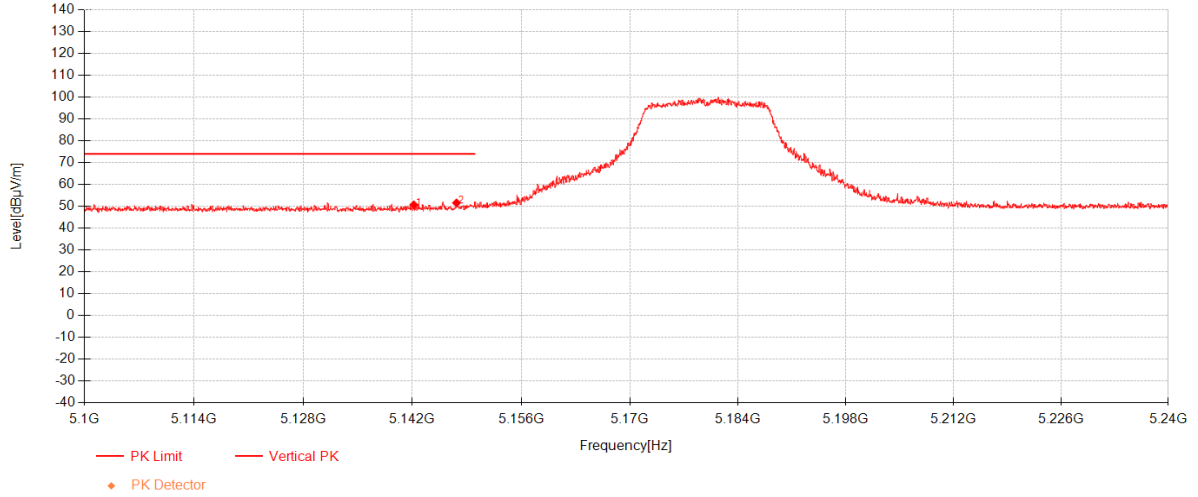
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5142.035	39.04	31.60	-20.25	50.39	74.00	23.61	Horizontal
2	5147.6	41.54	31.61	-20.23	52.92	74.00	21.08	Horizontal

11a_TX_CH_36_Horizontal_Average



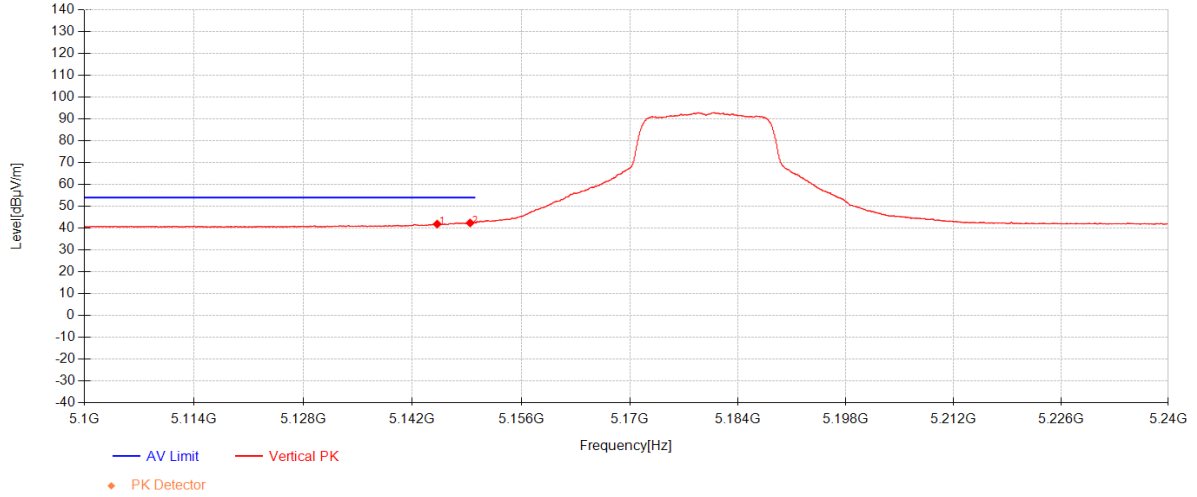
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5144.59	28.56	31.60	-17.76	42.40	54.00	11.60	Horizontal
2	5149.63	29.95	31.62	-17.76	43.81	54.00	10.19	Horizontal

11a_TX_CH_36_Vertical_Peak



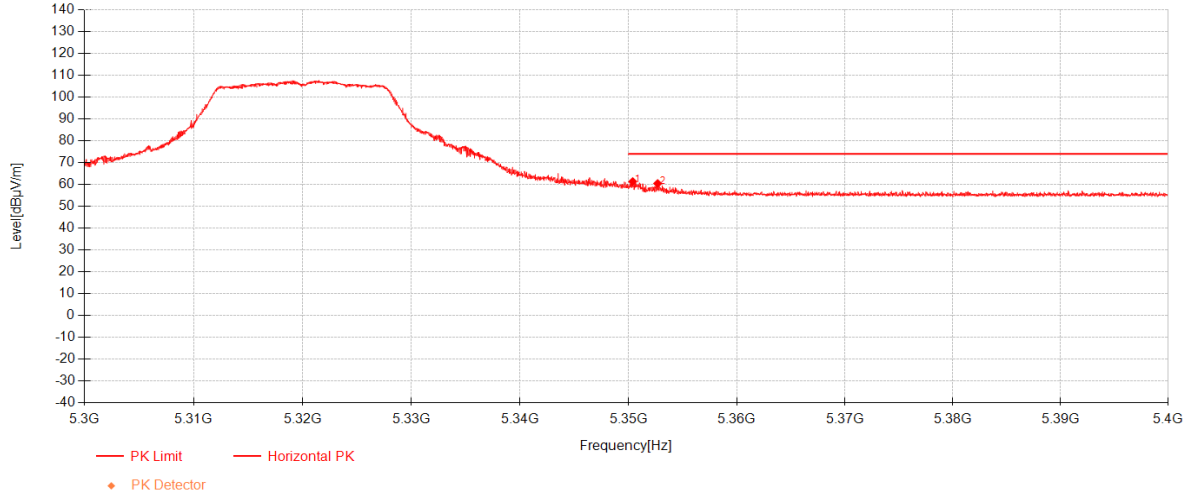
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5142.175	39.34	31.60	-20.25	50.69	74.00	23.31	Vertical
2	5147.67	40.21	31.61	-20.23	51.59	74.00	22.41	Vertical

11a_TX_CH_36_Vertical_Average



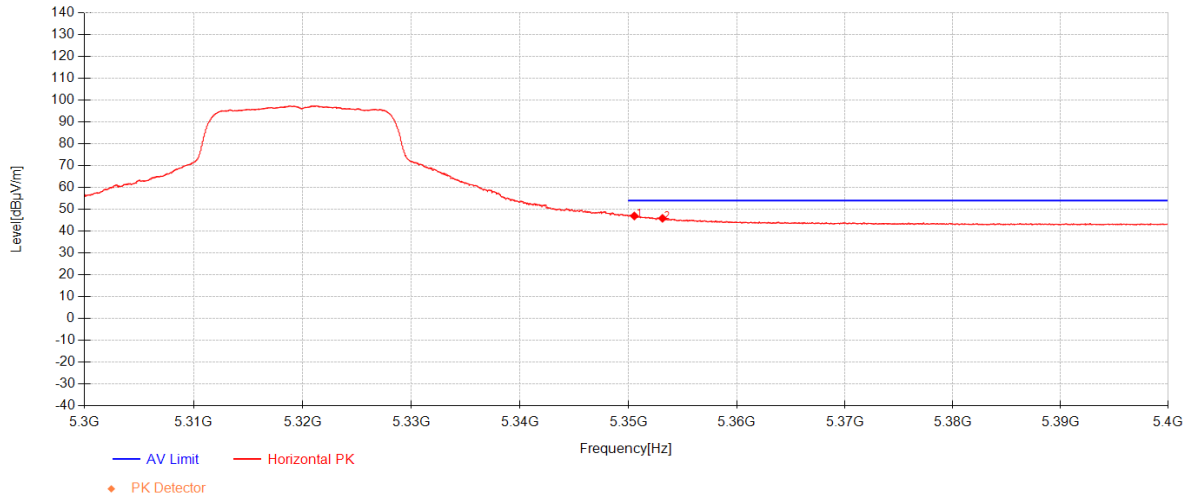
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5145.185	28.03	31.61	-17.76	41.87	54.00	12.13	Vertical
2	5149.42	28.53	31.62	-17.76	42.39	54.00	11.61	Vertical

11a_TX_CH_64_Horizontal_Peak



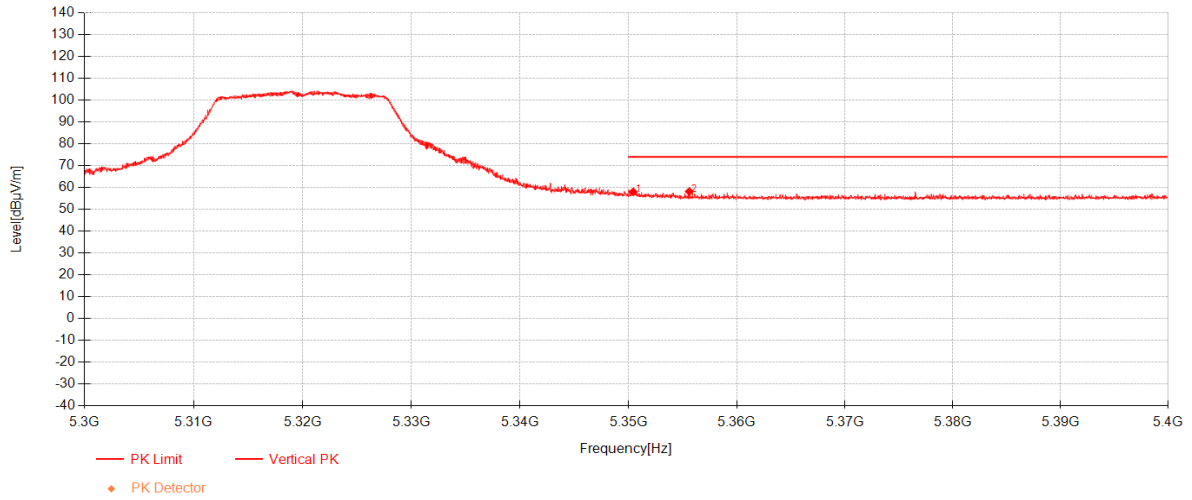
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.375	46.11	32.18	-16.93	61.36	74.00	12.64	Horizontal
2	5352.675	45.19	32.19	-16.92	60.46	74.00	13.54	Horizontal

11a_TX_CH_64_Horizontal_Average



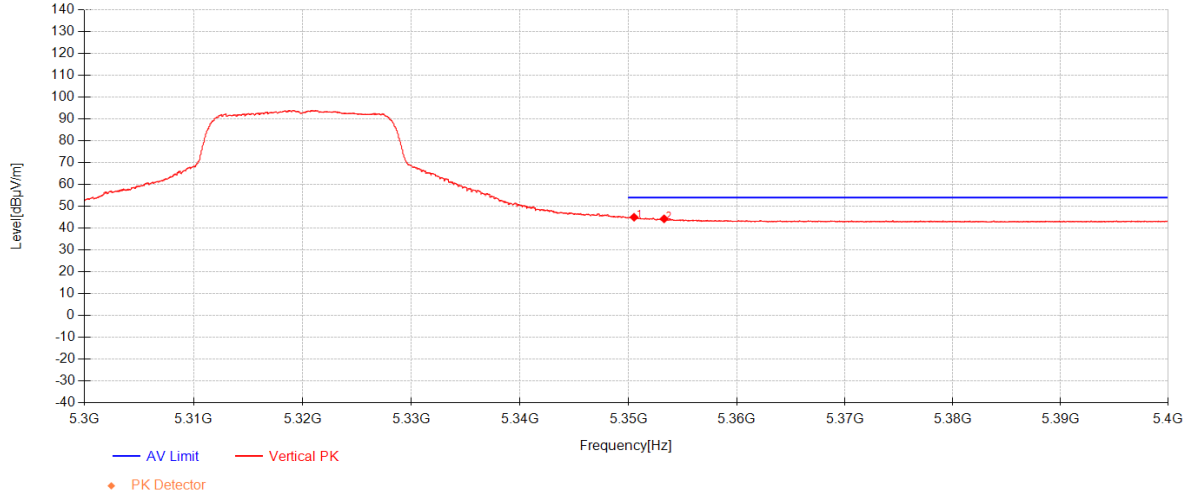
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.525	31.70	32.18	-16.93	46.95	54.00	7.05	Horizontal
2	5353.125	30.60	32.19	-16.91	45.87	54.00	8.13	Horizontal

11a_TX_CH_64_Vertical_Peak



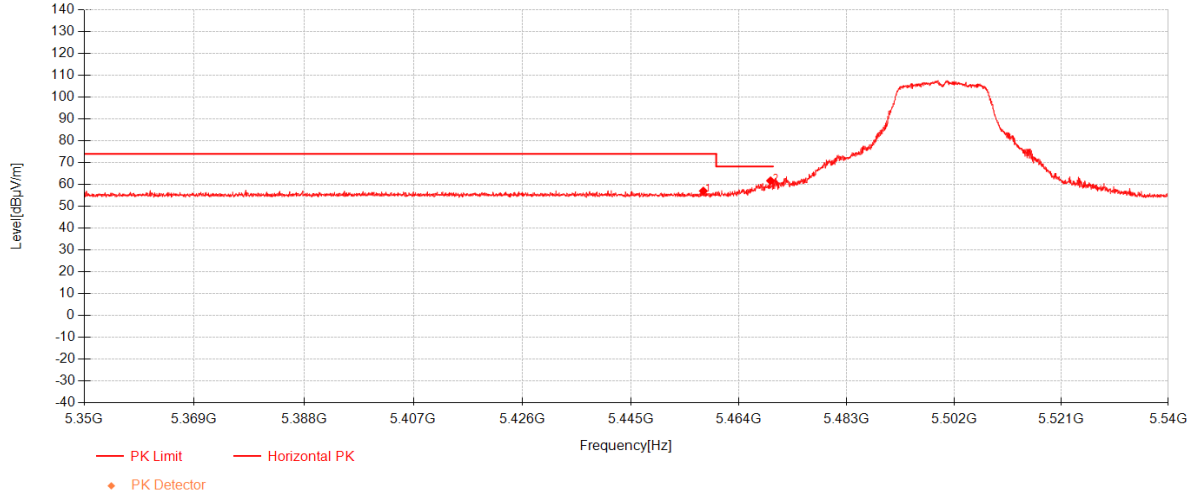
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.425	42.77	32.18	-16.93	58.02	74.00	15.98	Vertical
2	5355.6	42.87	32.20	-16.90	58.16	74.00	15.84	Vertical

11a_TX_CH_64_Vertical_Average



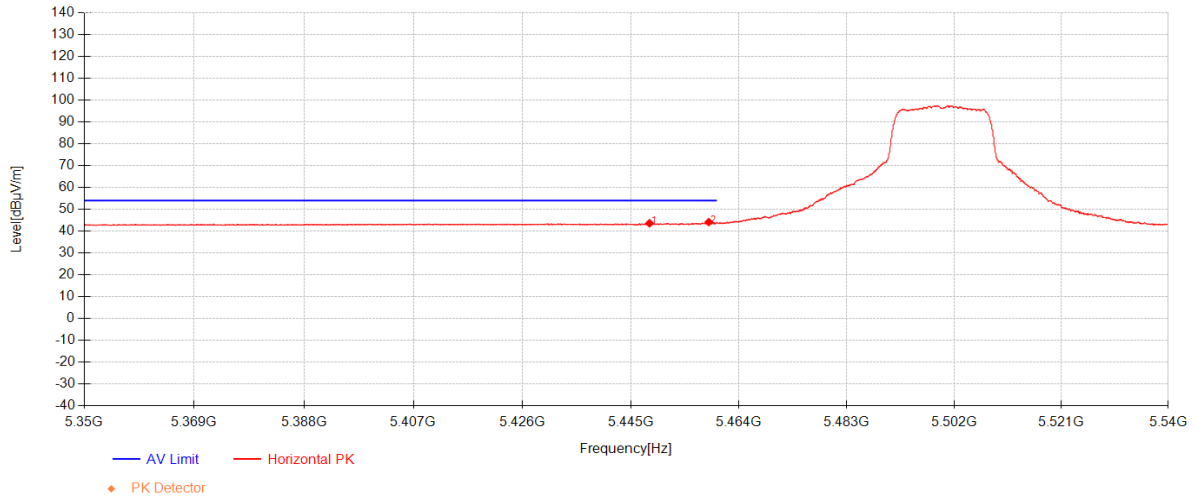
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.5	29.75	32.18	-16.93	45.00	54.00	9.00	Vertical
2	5353.275	28.98	32.19	-16.91	44.26	54.00	9.74	Vertical

11a_TX_CH_100_Horizontal_Peak



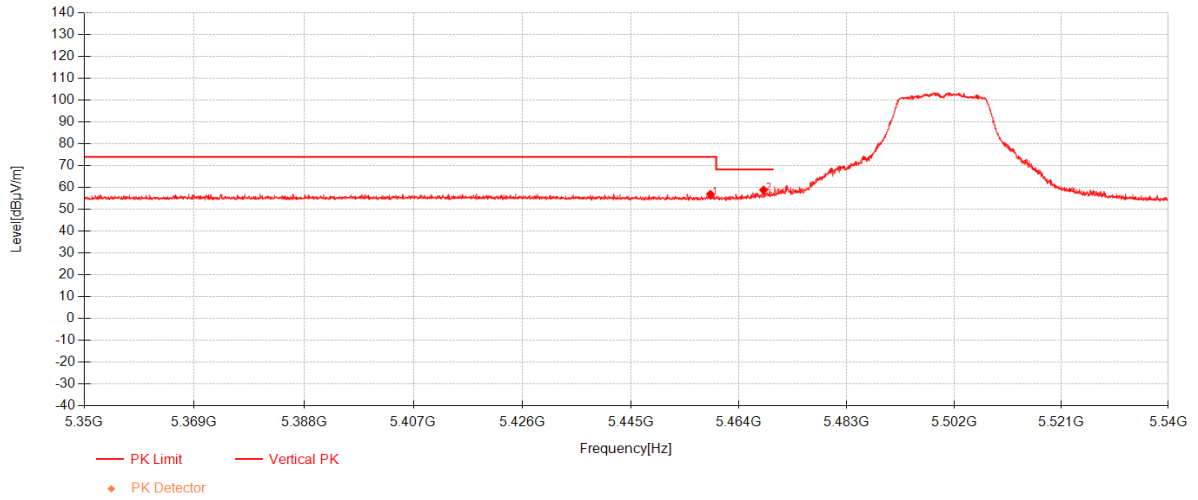
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5457.73	41.54	32.48	-16.99	57.03	74.00	16.97	Horizontal
2	5469.5575	46.26	32.51	-17.06	61.72	68.30	6.58	Horizontal

11a_TX_CH_100_Horizontal_Average



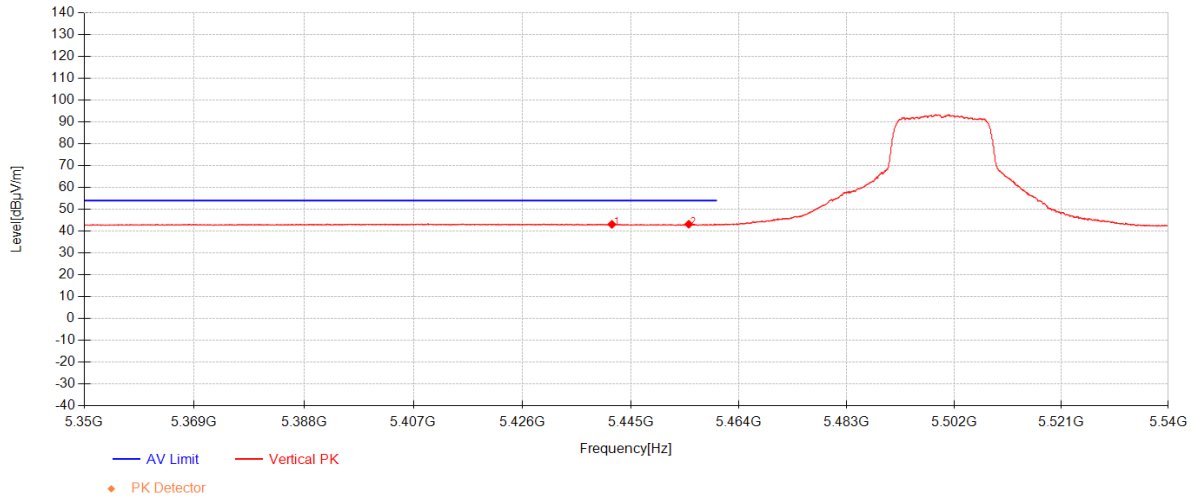
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5448.2775	28.12	32.46	-16.94	43.63	54.00	10.37	Horizontal
2	5458.68	28.65	32.48	-17.00	44.14	54.00	9.86	Horizontal

11a_TX_CH_100_Vertical_Peak



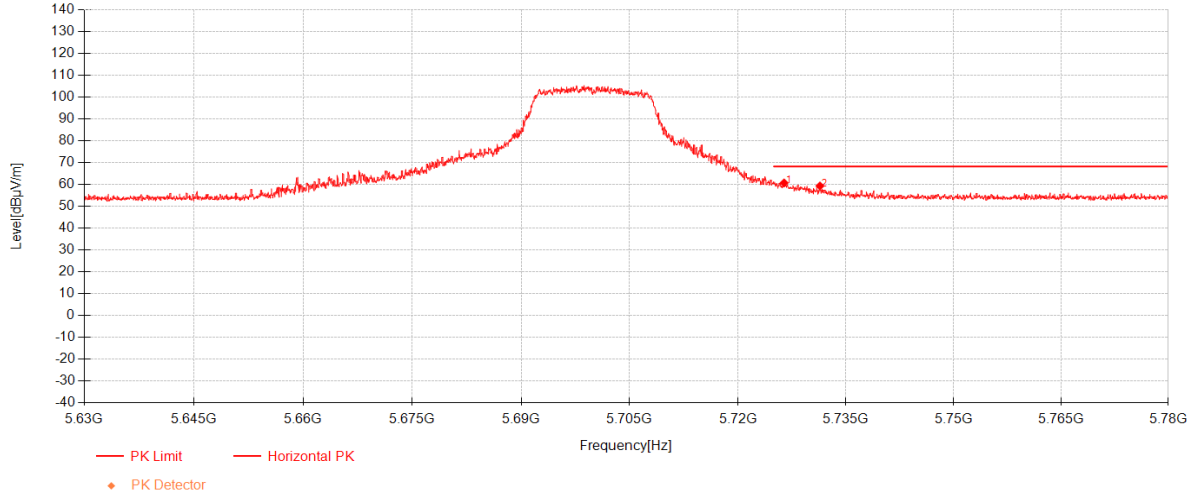
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5458.965	41.44	32.49	-17.00	56.93	74.00	17.07	Vertical
2	5468.3225	43.41	32.51	-17.05	58.87	68.30	9.43	Vertical

11a_TX_CH_100_Veritical_Average



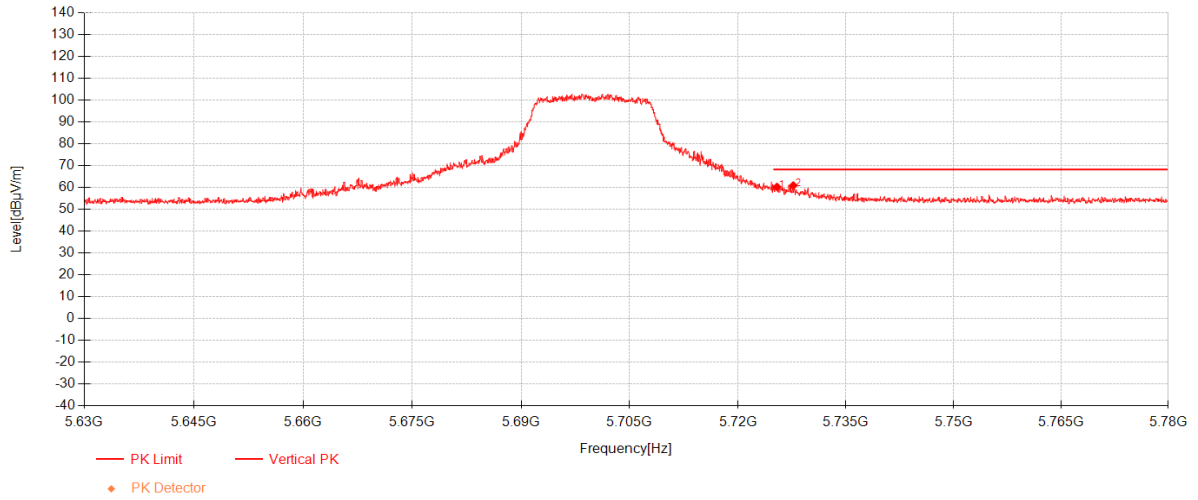
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5441.675	27.59	32.44	-16.91	43.12	54.00	10.88	Vertical
2	5455.165	27.68	32.47	-16.98	43.18	54.00	10.82	Vertical

11a_TX_CH_140_Horizontal_Peak



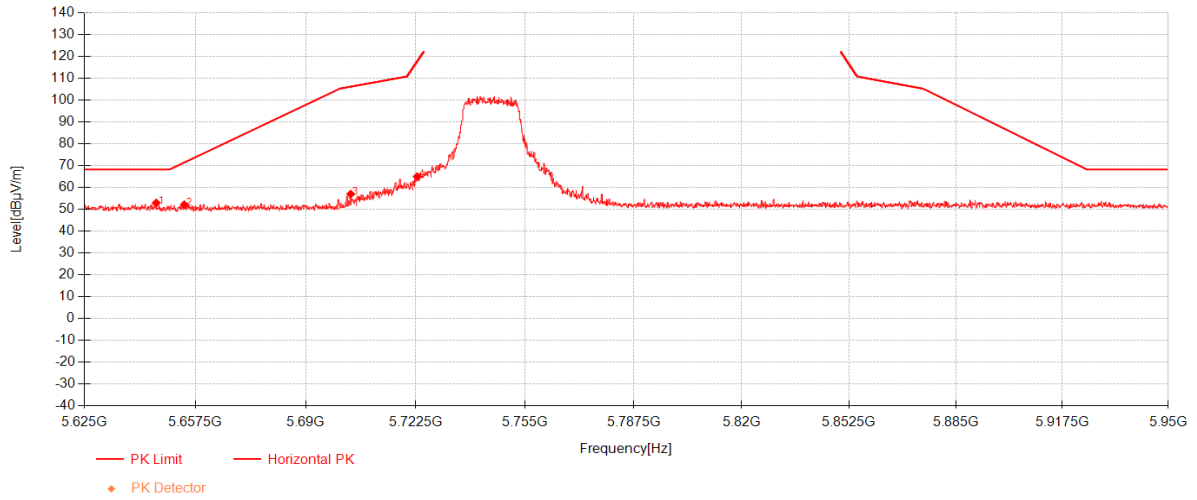
Data List								
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1	5726.4125	44.90	32.69	-16.85	60.74	68.30	7.56	Horizontal
2	5731.4	43.51	32.69	-16.83	59.37	68.30	8.93	Horizontal

11a_TX_CH_140_Veritical_Peak



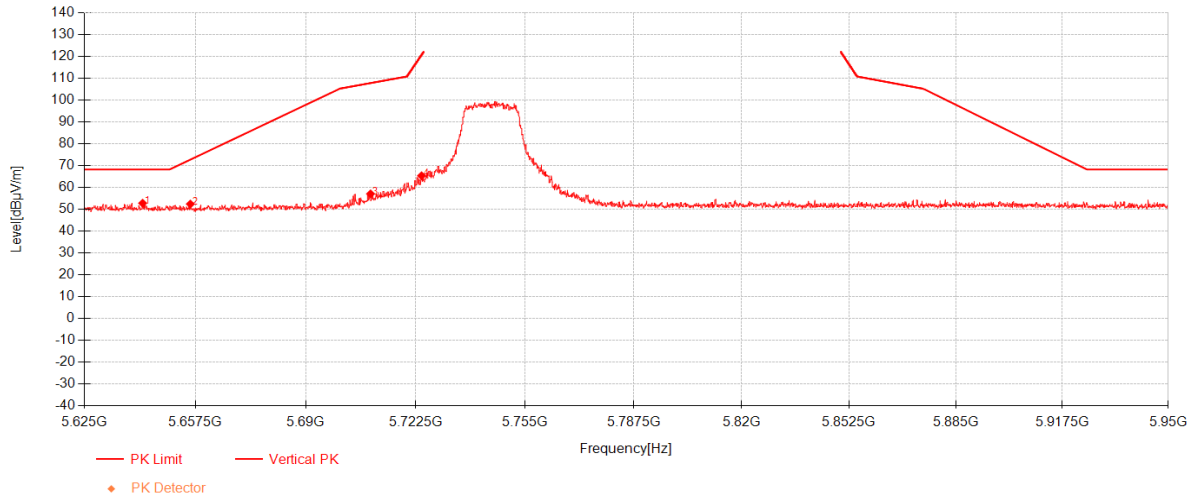
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5725.4375	44.45	32.69	-16.86	60.28	68.30	8.02	Vertical
2	5727.6875	45.07	32.69	-16.85	60.91	68.30	7.39	Vertical

11a_TX_CH_149_Horizontal_Peak



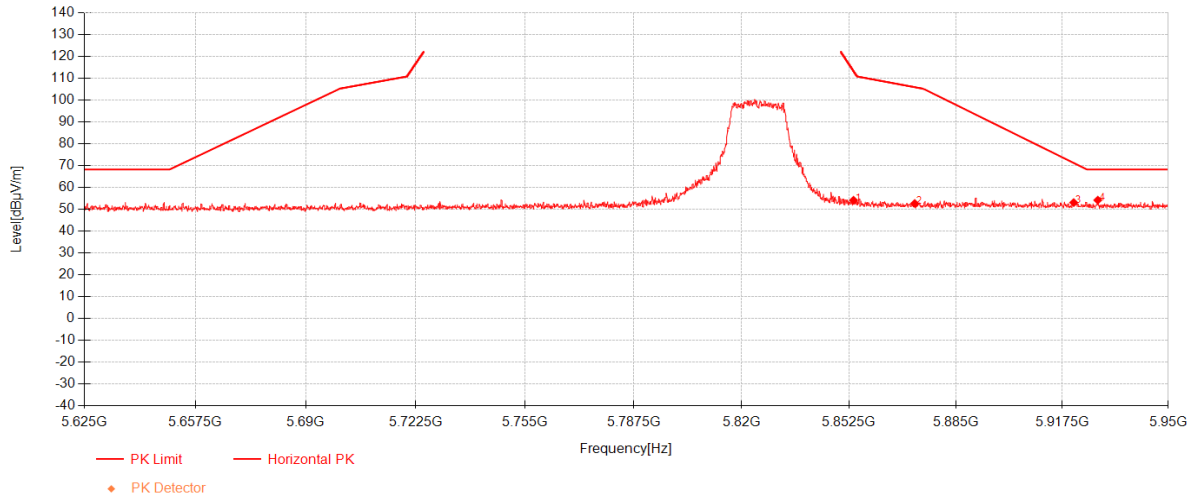
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5646.0438	39.76	32.66	-19.46	52.96	68.30	15.34	Horizontal
2	5654.25	38.97	32.66	-19.46	52.17	71.46	19.29	Horizontal
3	5703.2438	43.76	32.68	-19.45	56.99	106.21	49.22	Horizontal
4	5722.9062	51.64	32.69	-19.32	65.01	117.53	52.52	Horizontal

11a_TX_CH_149_Vertical_Peak



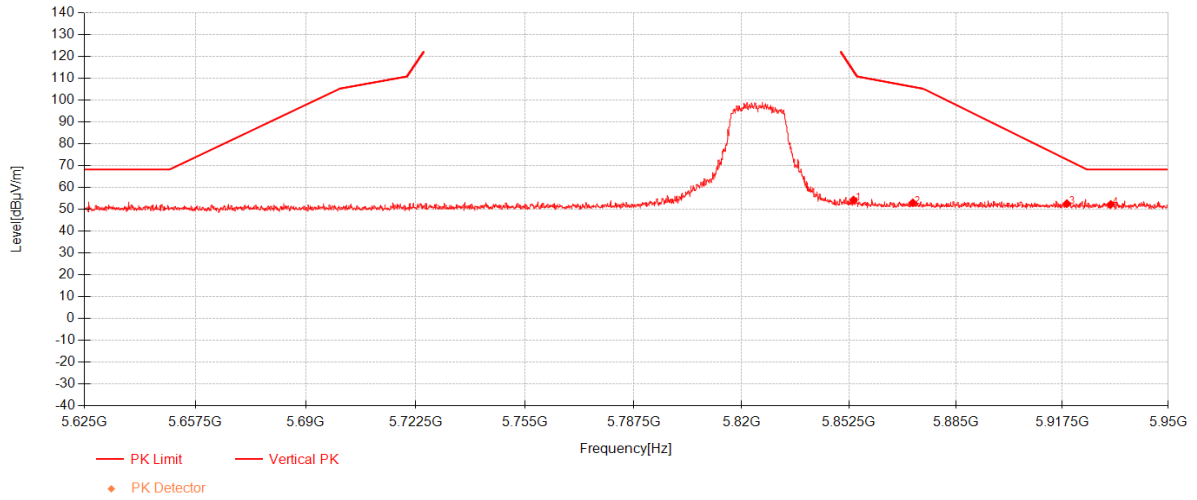
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5642.0625	39.61	32.66	-19.46	52.81	68.30	15.49	Vertical
2	5656.0375	39.23	32.66	-19.46	52.43	72.79	20.36	Vertical
3	5709.0938	43.84	32.68	-19.41	57.11	107.85	50.74	Vertical
4	5724.2062	52.03	32.69	-19.32	65.40	120.49	55.09	Vertical

11a_TX_CH_165_Horizontal_Peak



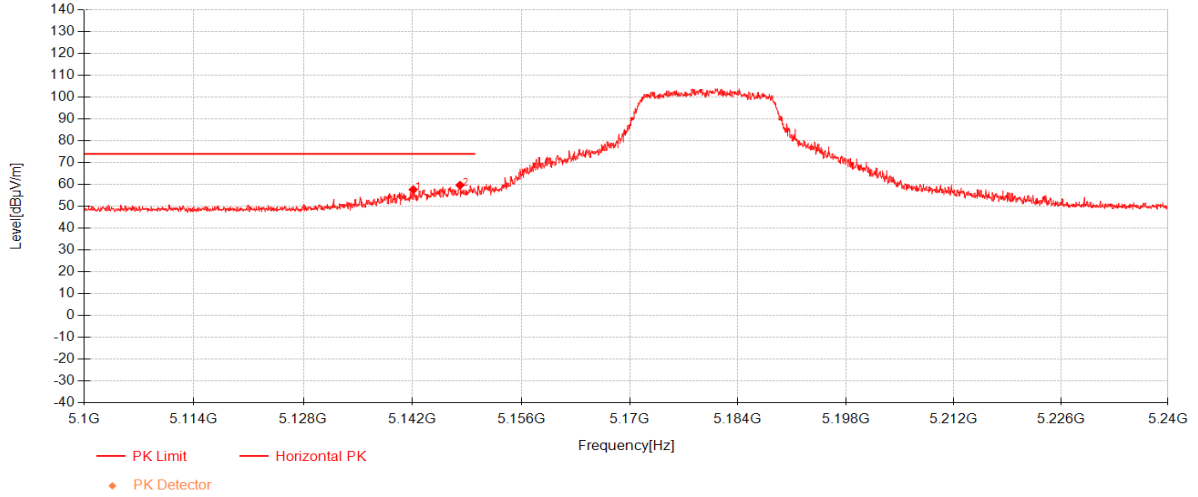
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5853.8	40.23	32.74	-18.81	54.16	113.64	59.48	Horizontal
2	5872.4062	38.75	32.75	-18.80	52.70	106.03	53.33	Horizontal
3	5920.9938	39.27	32.77	-18.93	53.10	71.25	18.15	Horizontal
4	5928.3875	40.43	32.77	-18.99	54.22	68.30	14.08	Horizontal

11a_TX_CH_165_Vertical_Peak



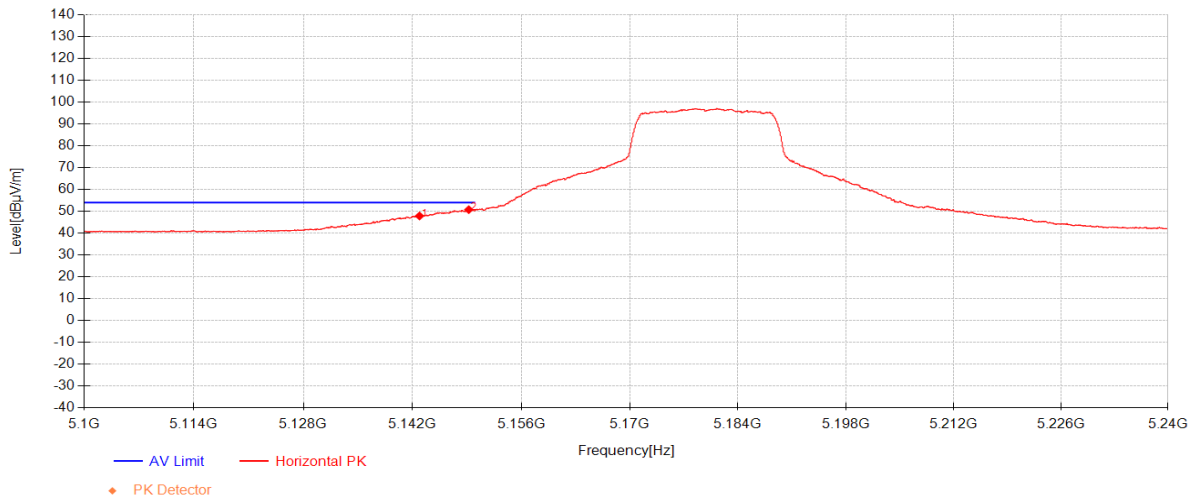
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5853.8	40.35	32.74	-18.81	54.28	113.64	59.36	Vertical
2	5871.8375	39.05	32.75	-18.80	53.00	106.18	53.18	Vertical
3	5918.8812	38.78	32.77	-18.92	52.63	72.81	20.18	Vertical
4	5932.3688	38.51	32.77	-19.01	52.27	68.30	16.03	Vertical

11ac(VHT20)_TX_CH_36_Horizontal_Peak



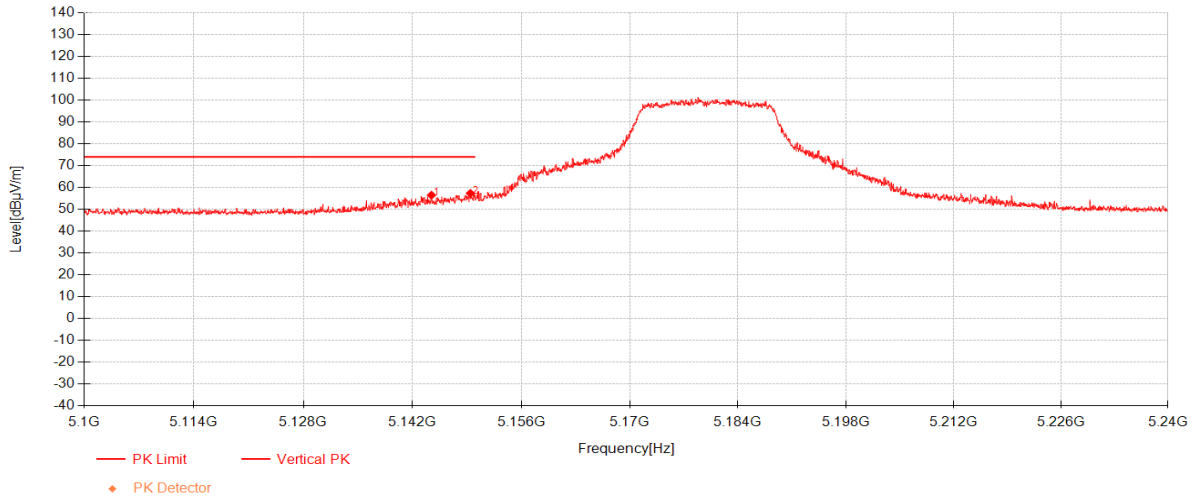
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5142.105	46.29	31.60	-20.25	57.64	74.00	16.36	Horizontal
2	5148.125	48.33	31.61	-20.23	59.71	74.00	14.29	Horizontal

11ac(VHT20)_TX_CH_36_Horizontal_Average



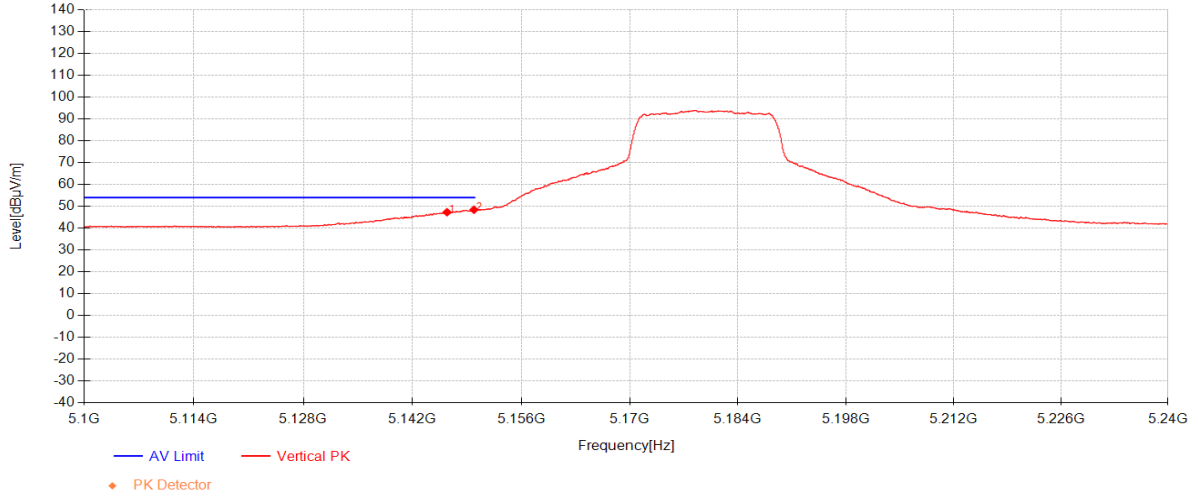
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5142.91	34.04	31.60	-17.77	47.87	54.00	6.13	Horizontal
2	5149.245	36.91	31.62	-17.76	50.77	54.00	3.23	Horizontal

11ac(VHT20)_TX_CH_36_Vetical_Peak



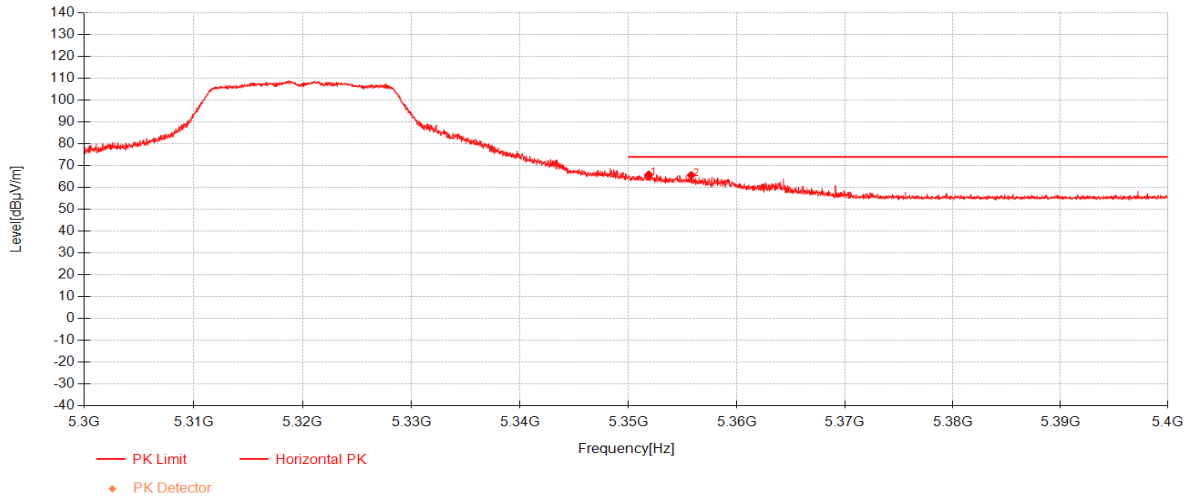
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5144.45	45.13	31.60	-20.24	56.49	74.00	17.51	Vertical
2	5149.455	45.95	31.62	-20.23	57.34	74.00	16.66	Vertical

11ac(VHT20)_TX_CH_36_Verical_Average



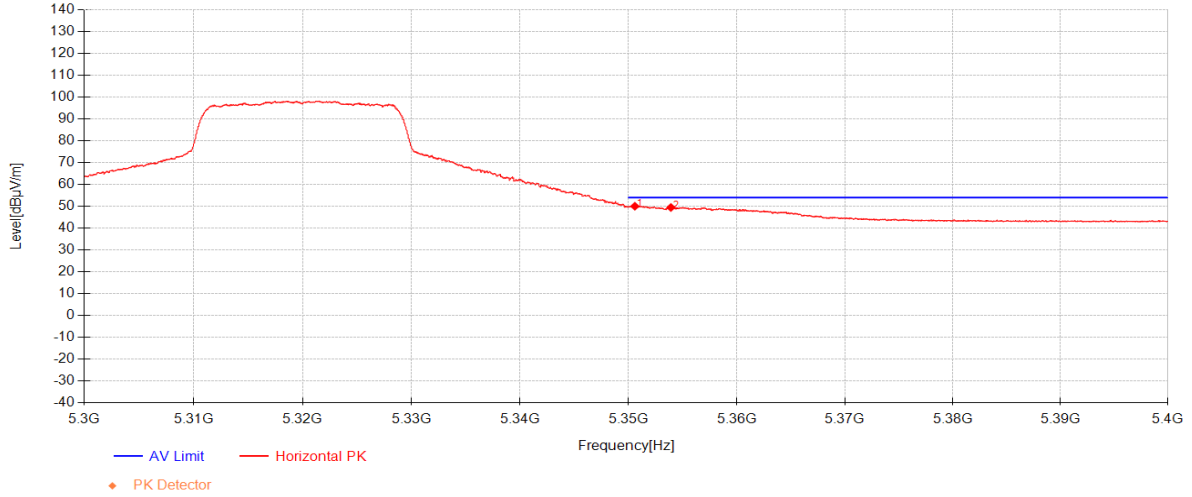
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5146.445	33.46	31.61	-17.76	47.31	54.00	6.69	Vertical
2	5149.91	34.56	31.62	-17.76	48.42	54.00	5.58	Vertical

11ac(VHT20)_TX_CH_64_Horizontal_Peak



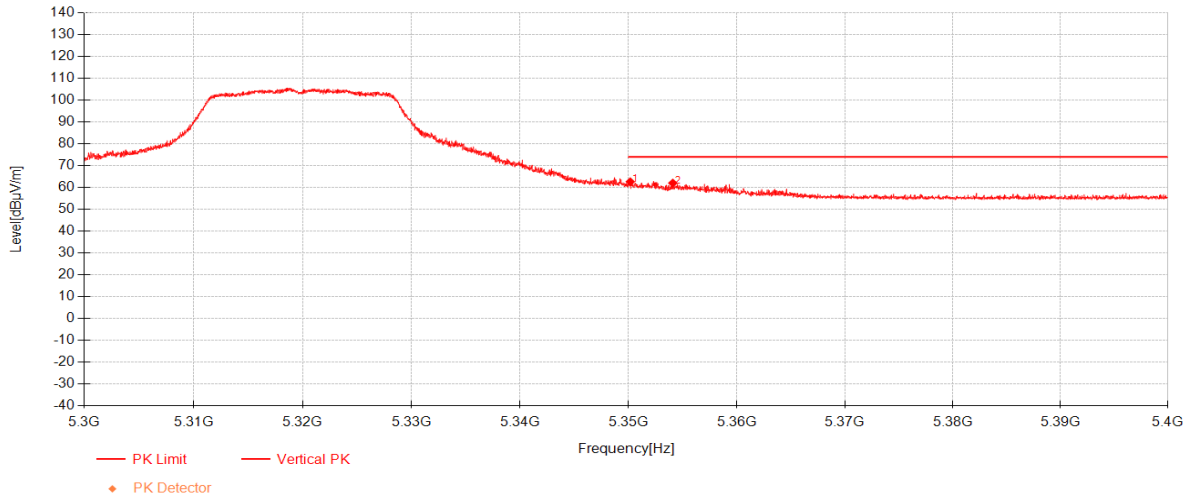
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5351.85	50.56	32.19	-16.92	65.82	74.00	8.18	Horizontal
2	5355.775	50.30	32.20	-16.90	65.60	74.00	8.40	Horizontal

11ac(VHT20)_TX_CH_64_Horizontal_Average



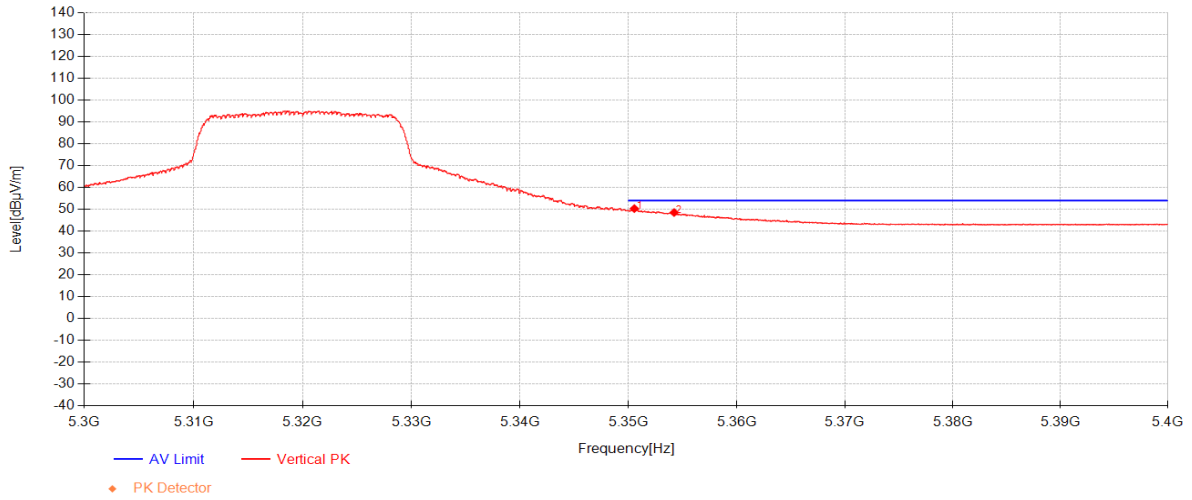
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.575	34.78	32.18	-16.93	50.03	54.00	3.97	Horizontal
2	5353.9	34.20	32.19	-16.91	49.48	54.00	4.52	Horizontal

11ac(VHT20)_TX_CH_64_Vetical_Peak



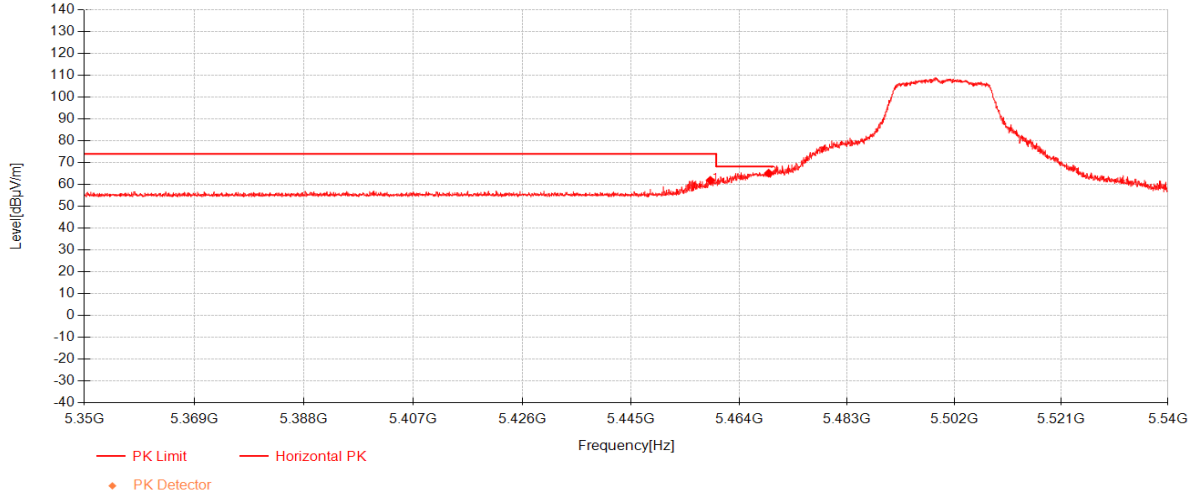
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.15	47.43	32.18	-16.93	62.68	74.00	11.32	Vertical
2	5354.075	46.76	32.19	-16.91	62.04	74.00	11.96	Vertical

11ac(VHT20)_TX_CH_64_Vetical_Average



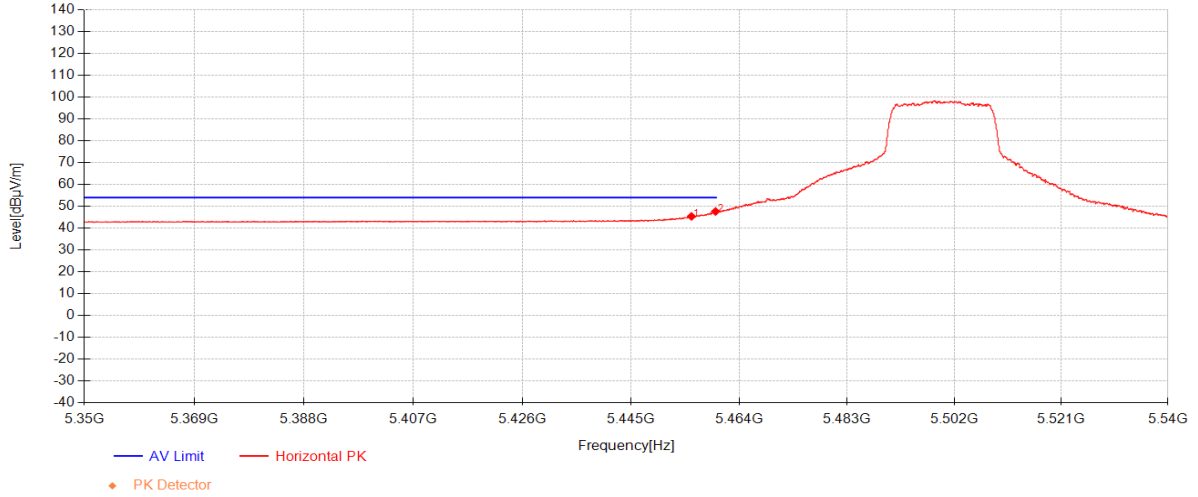
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.525	35.10	32.18	-16.93	50.35	54.00	3.65	Vertical
2	5354.2	33.25	32.19	-16.91	48.53	54.00	5.47	Vertical

11ac(VHT20)_TX_CH_100_Horizontal_Peak



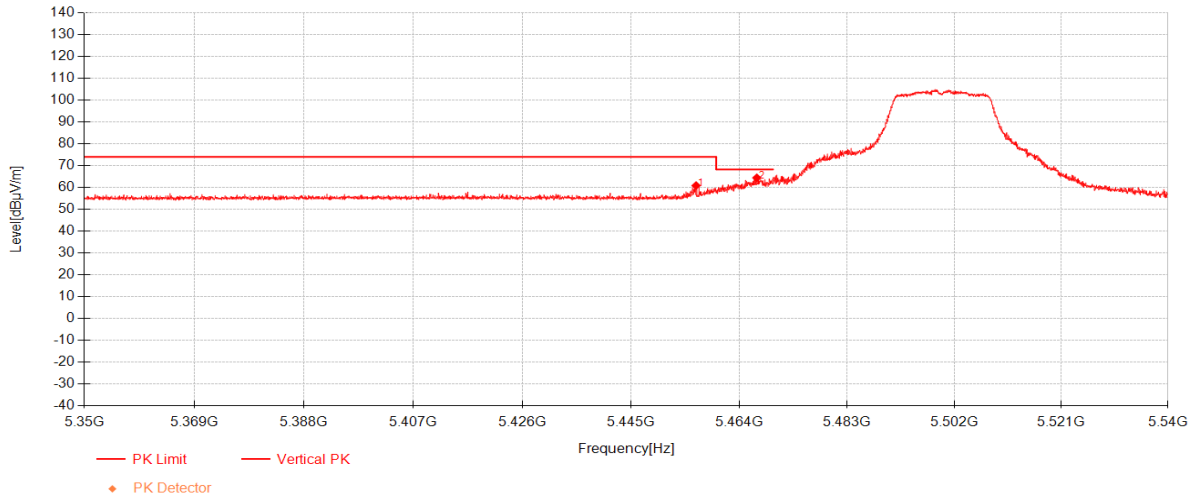
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5458.965	46.44	32.49	-17.00	61.93	74.00	12.07	Horizontal
2	5469.225	49.75	32.51	-17.05	65.21	68.30	3.09	Horizontal

11ac(VHT20)_TX_CH_100_Horizontal_Average



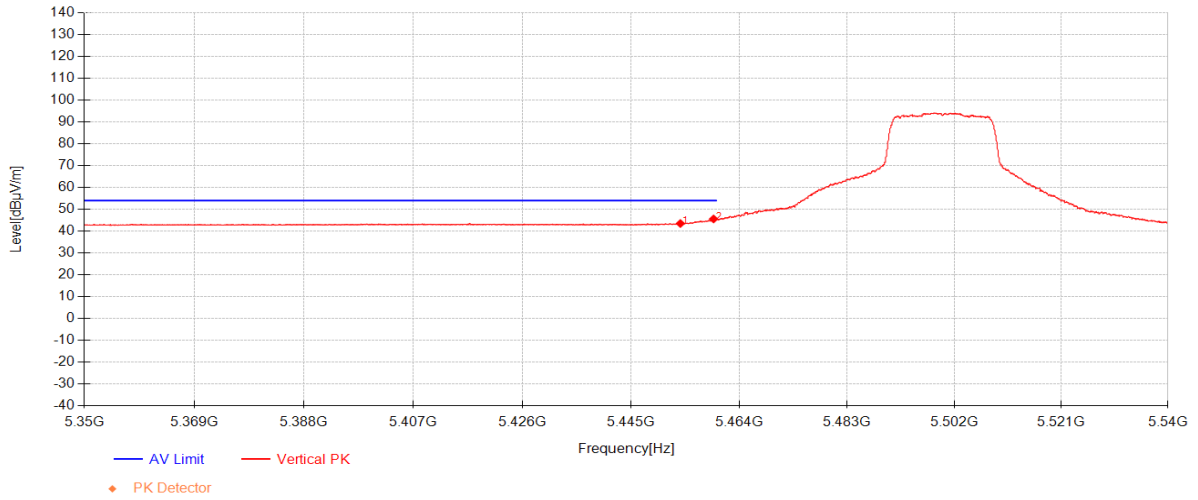
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5455.64	29.89	32.48	-16.98	45.39	54.00	8.61	Horizontal
2	5459.8675	32.15	32.49	-17.00	47.63	54.00	6.37	Horizontal

11ac(VHT20)_TX_CH_100_Veritical_Peak



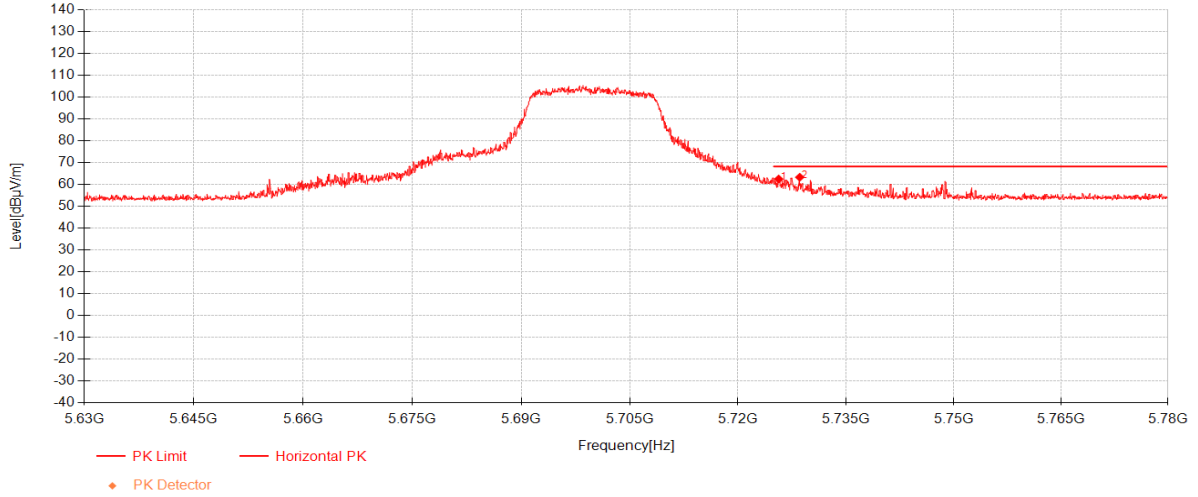
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5456.4475	45.39	32.48	-16.98	60.88	74.00	13.12	Vertical
2	5467.135	48.99	32.51	-17.04	64.46	68.30	3.84	Vertical

11ac(VHT20)_TX_CH_100_Veritical_Average



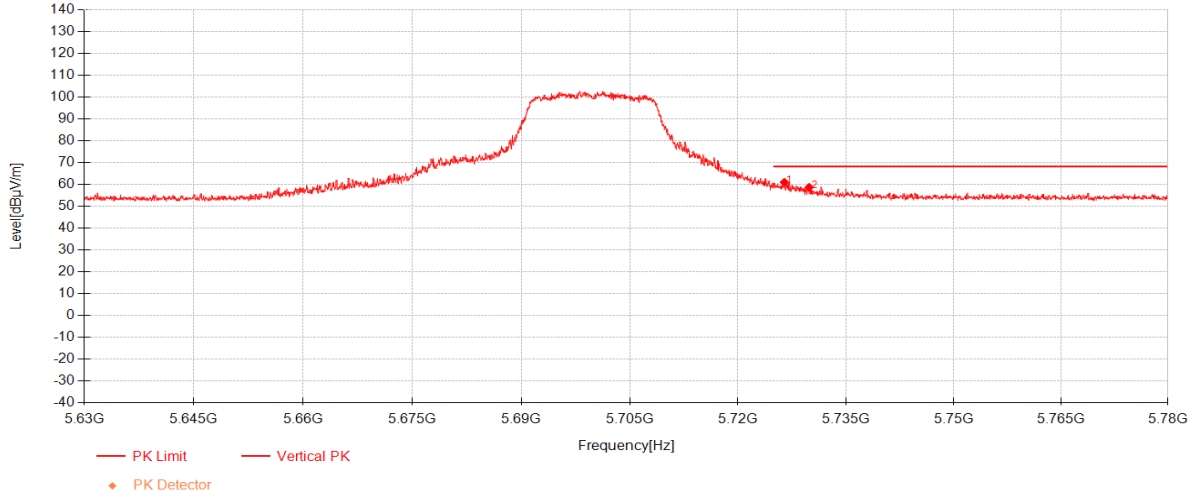
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5453.6925	27.99	32.47	-16.97	43.49	54.00	10.51	Vertical
2	5459.535	30.10	32.49	-17.00	45.59	54.00	8.41	Vertical

11ac(VHT20)_TX_CH_140_Horizontal_Peak



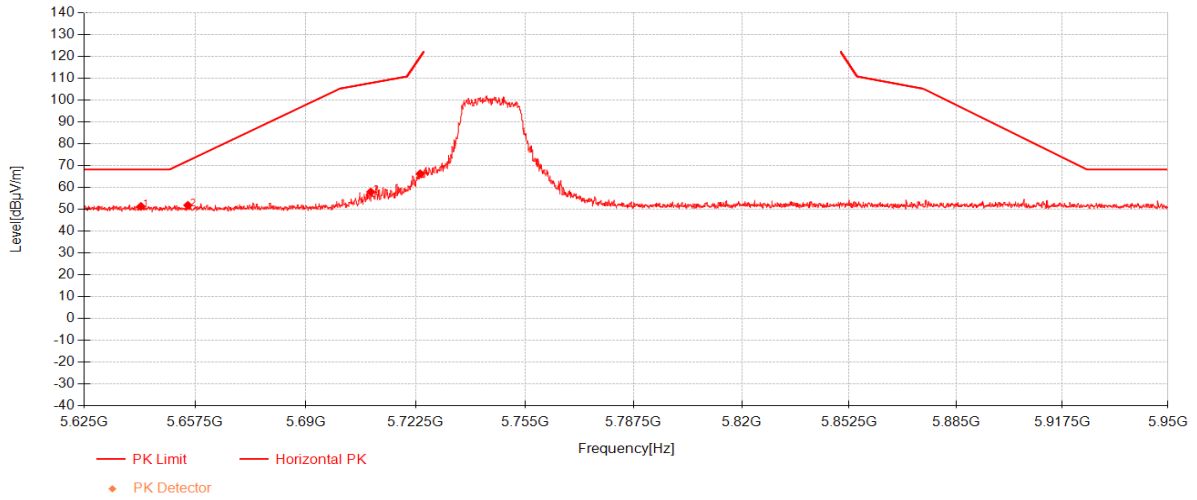
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5725.6625	46.67	32.69	-16.86	62.50	68.30	5.80	Horizontal
2	5728.5875	47.48	32.69	-16.85	63.33	68.30	4.97	Horizontal

11ac(VHT20)_TX_CH_140_Veritical_Peak



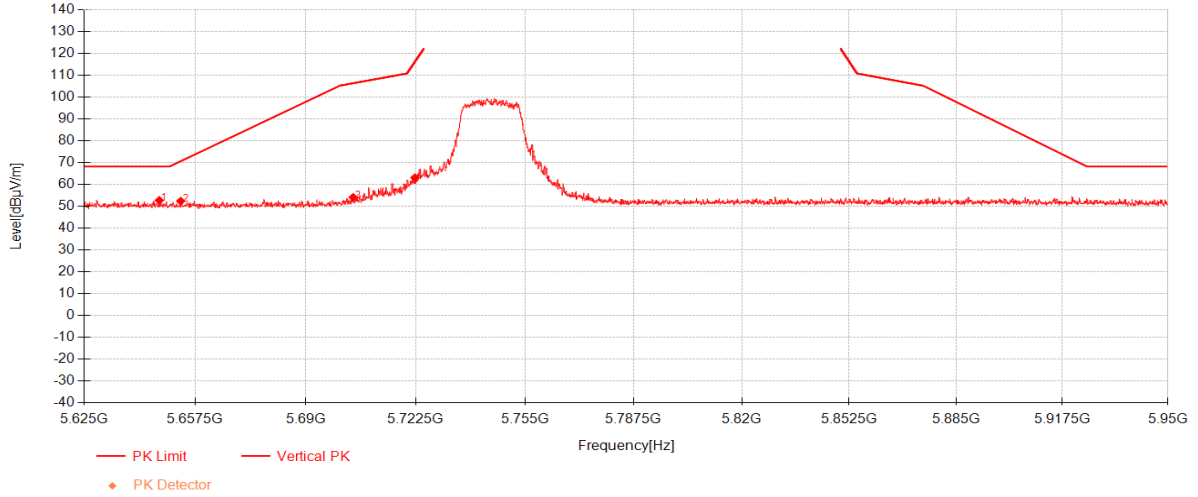
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5726.45	45.22	32.69	-16.85	61.06	68.30	7.24	Vertical
2	5729.9	42.88	32.69	-16.84	58.73	68.30	9.57	Vertical

11ac(VHT20)_TX_CH_149_Horizontal_Peak



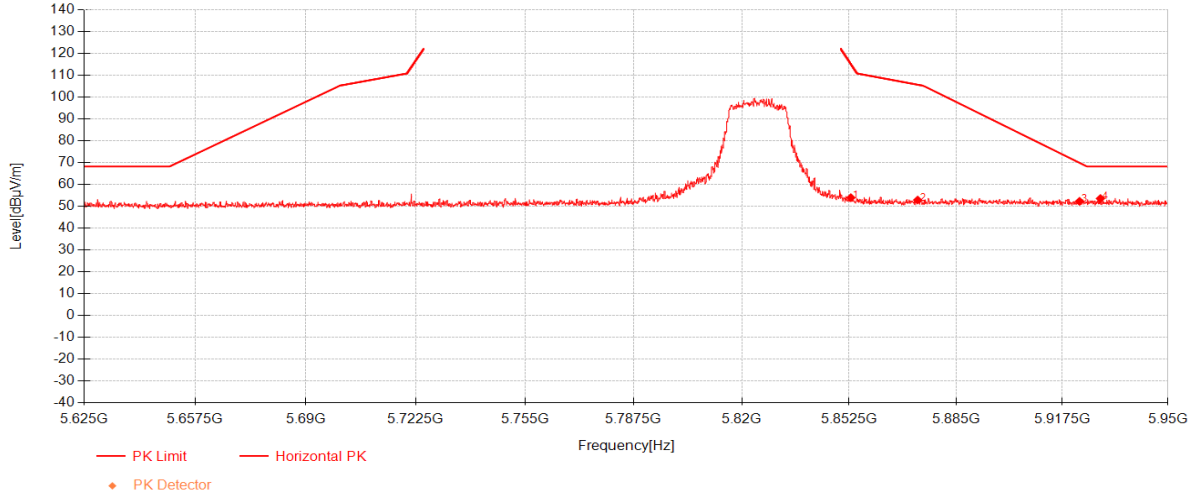
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5641.575	38.13	32.66	-19.46	51.33	68.30	16.97	Horizontal
2	5655.3062	38.65	32.66	-19.46	51.85	72.24	20.39	Horizontal
3	5709.175	44.70	32.68	-19.41	57.97	107.87	49.90	Horizontal
4	5723.8	52.95	32.69	-19.32	66.32	119.56	53.24	Horizontal

11ac(VHT20)_TX_CH_149_Veritical_Peak



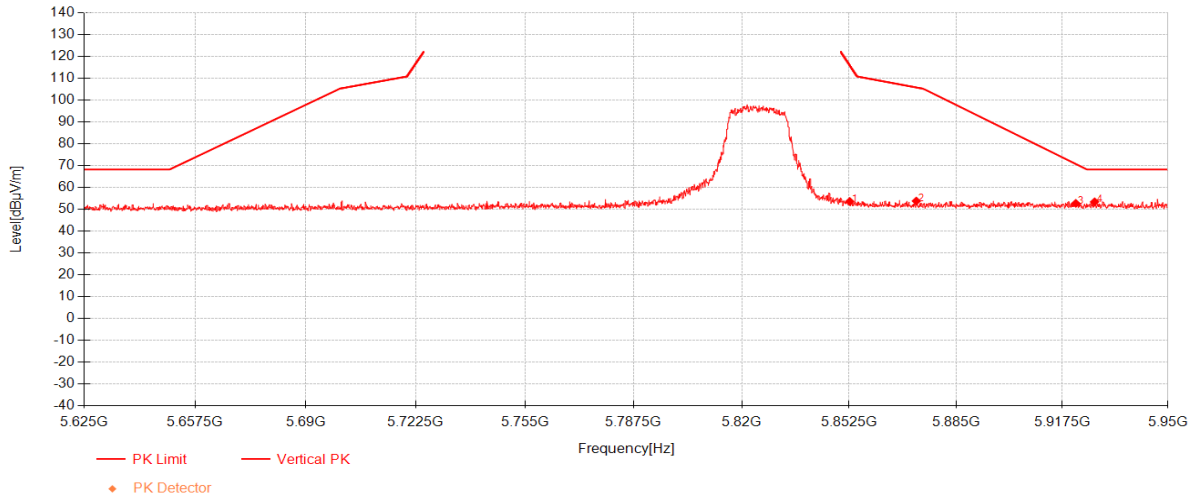
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5646.9375	39.53	32.66	-19.46	52.73	68.30	15.57	Vertical
2	5653.1938	39.21	32.66	-19.46	52.41	70.67	18.26	Vertical
3	5703.975	40.89	32.68	-19.44	54.13	106.41	52.28	Vertical
4	5722.2562	49.76	32.69	-19.33	63.12	116.05	52.93	Vertical

11ac(VHT20)_TX_CH_165_Horizontal_Peak



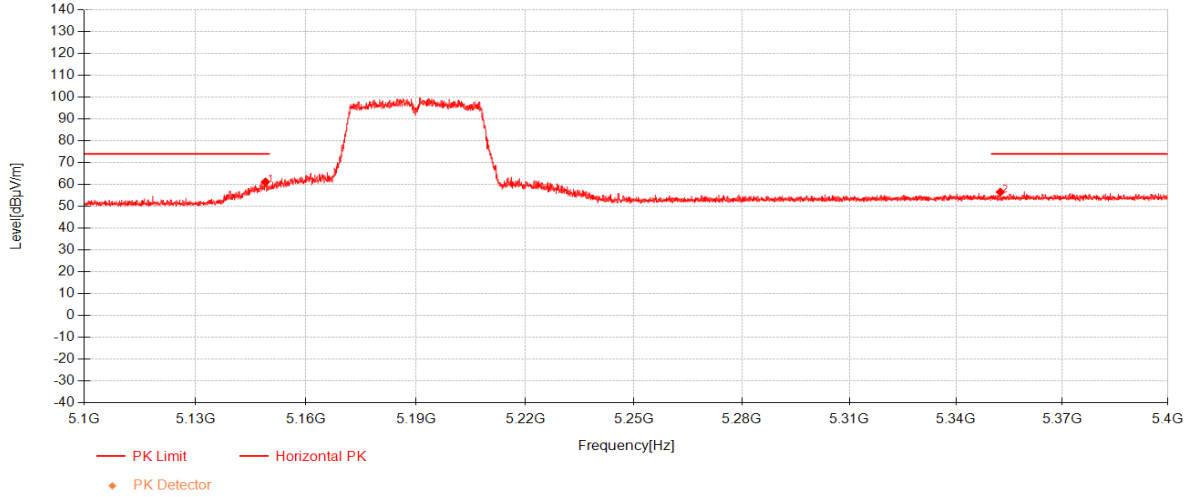
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5852.9875	40.03	32.74	-18.81	53.96	115.49	61.53	Horizontal
2	5873.3	38.96	32.75	-18.80	52.91	105.78	52.87	Horizontal
3	5922.7812	38.49	32.77	-18.95	52.31	69.94	17.63	Horizontal
4	5929.2	39.79	32.77	-18.99	53.57	68.30	14.73	Horizontal

11ac(VHT20)_TX_CH_165_Vertical_Peak



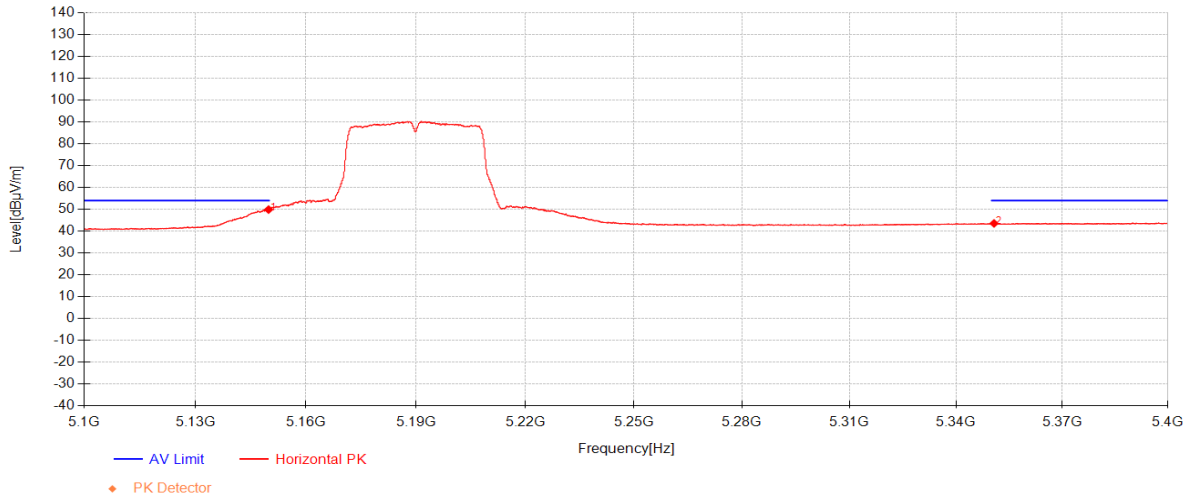
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5852.6625	39.69	32.74	-18.81	53.62	116.23	62.61	Vertical
2	5872.8938	39.86	32.75	-18.80	53.81	105.89	52.08	Vertical
3	5921.6438	38.91	32.77	-18.94	52.74	70.77	18.03	Vertical
4	5927.4125	39.66	32.77	-18.98	53.45	68.30	14.85	Vertical

11ac(VHT40)_TX_CH_38_Horizontal_Peak



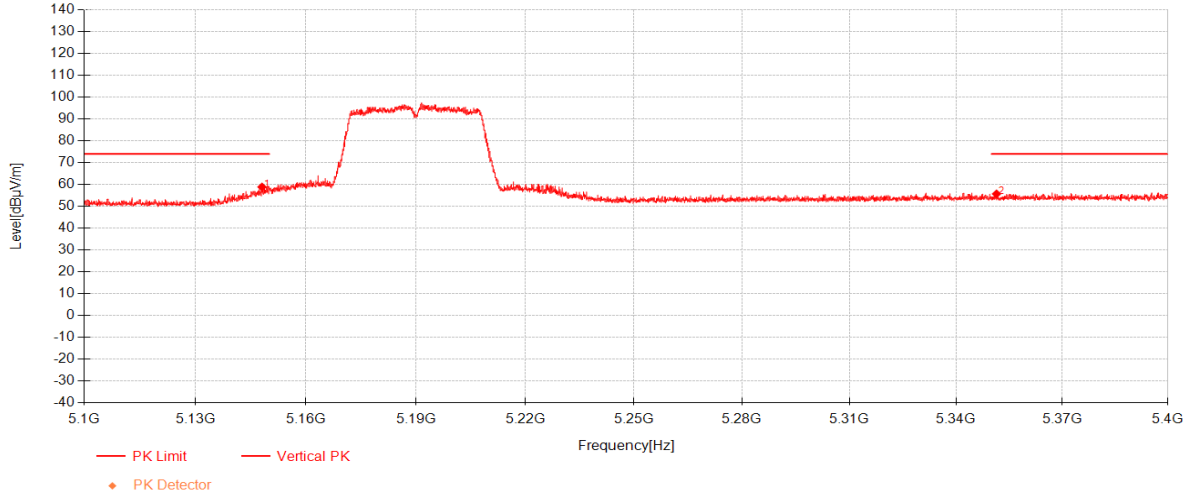
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5149	47.34	31.62	-17.76	61.20	74.00	12.80	Horizontal
2	5352.47	41.28	32.19	-16.92	56.55	74.00	17.45	Horizontal

11ac(VHT40)_TX_CH_38_Horizontal_Average



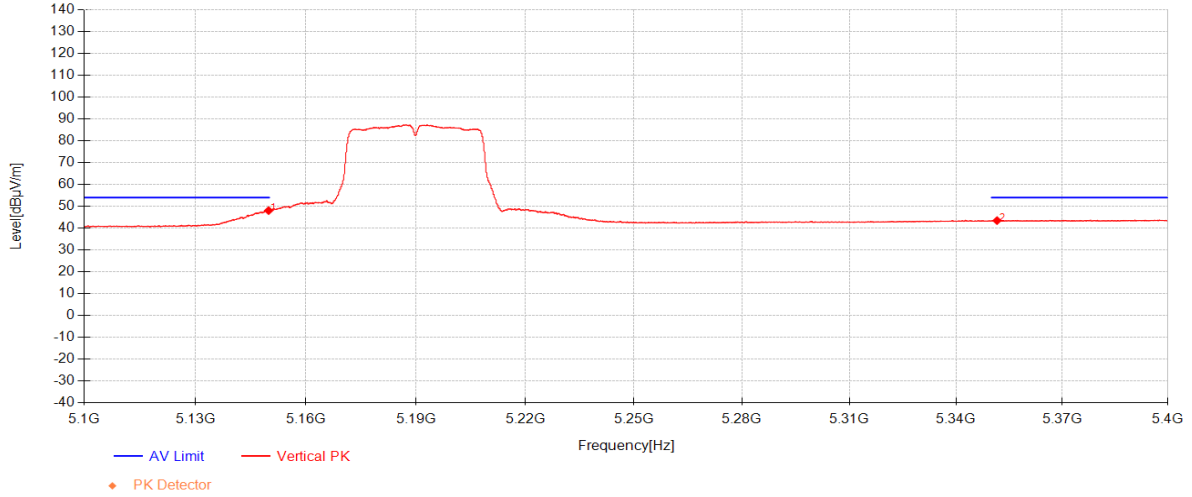
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5149.84	36.03	31.62	-17.76	49.89	54.00	4.11	Horizontal
2	5350.685	28.28	32.18	-16.93	43.54	54.00	10.46	Horizontal

11ac(VHT40)_TX_CH_38_Vetical_Peak



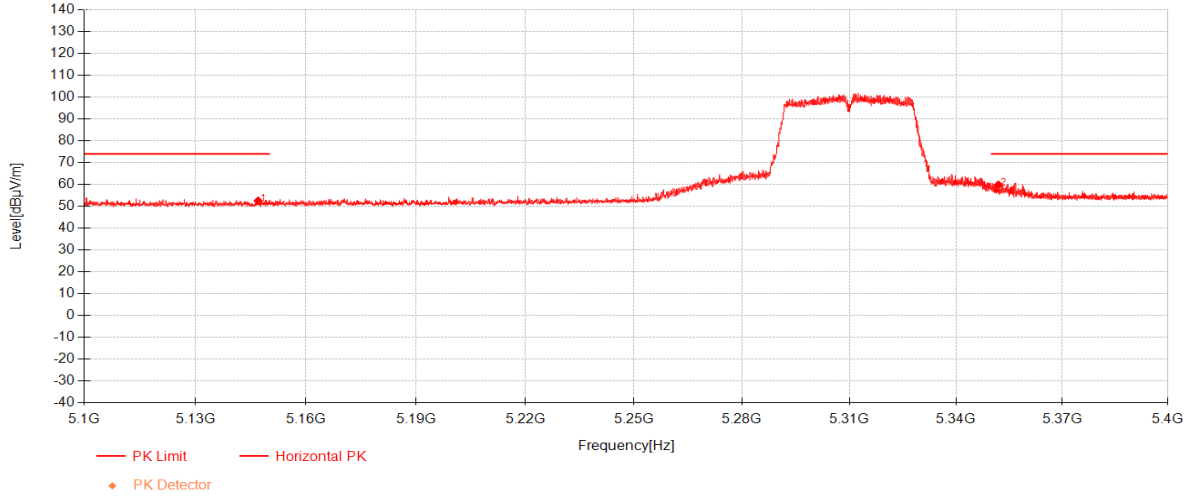
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5148.04	45.02	31.61	-17.76	58.88	74.00	15.12	Vertical
2	5351.385	40.45	32.18	-16.92	55.71	74.00	18.29	Vertical

11ac(VHT40)_TX_CH_38_Vetical_Average



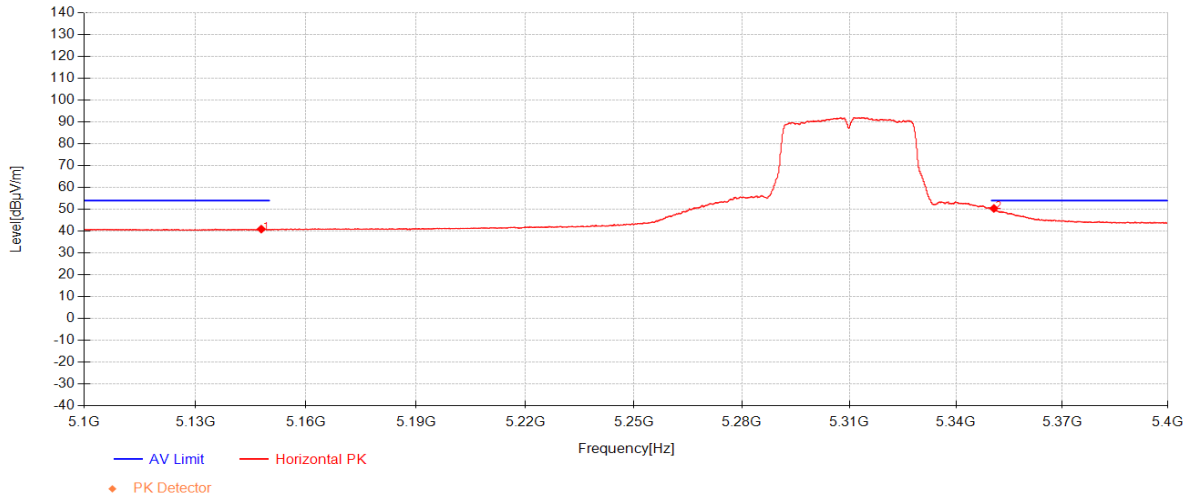
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5149.84	34.19	31.62	-17.76	48.05	54.00	5.95	Vertical
2	5351.525	28.20	32.18	-16.92	43.46	54.00	10.54	Vertical

11ac(VHT40)_TX_CH_62_Horizontal_Peak



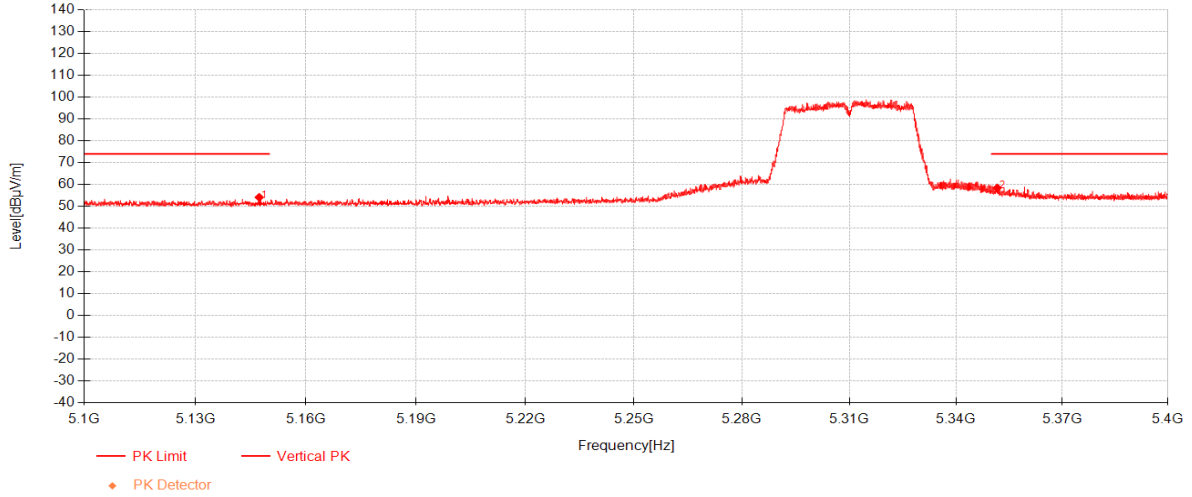
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147	38.68	31.61	-17.76	52.53	74.00	21.47	Horizontal
2	5351.925	44.60	32.19	-16.92	59.87	74.00	14.13	Horizontal

11ac(VHT40)_TX_CH_62_Horizontal_Average



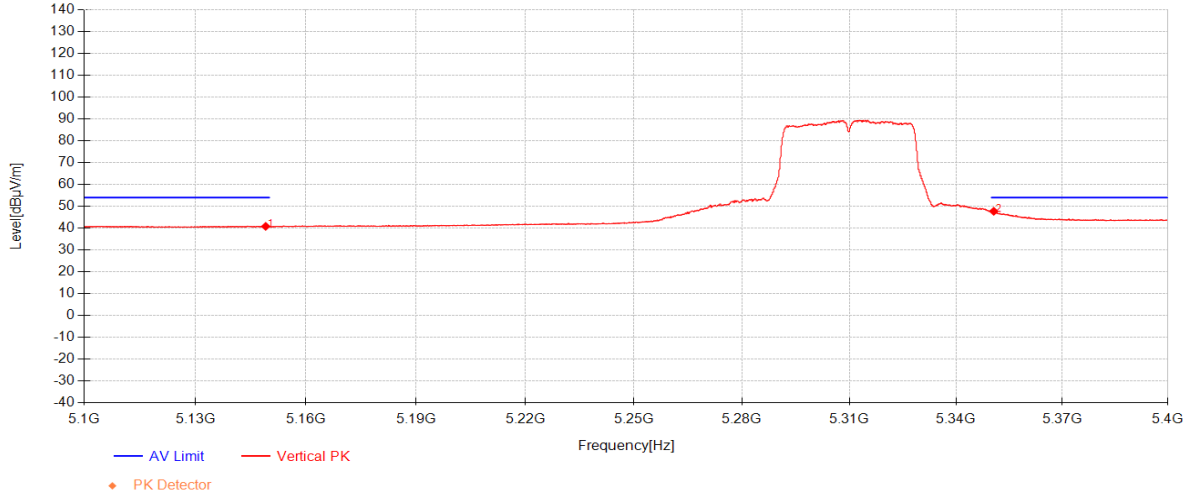
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.85	27.06	31.61	-17.76	40.92	54.00	13.08	Horizontal
2	5350.65	35.16	32.18	-16.93	50.42	54.00	3.58	Horizontal

11ac(VHT40)_TX_CH_62_Vertical_Peak



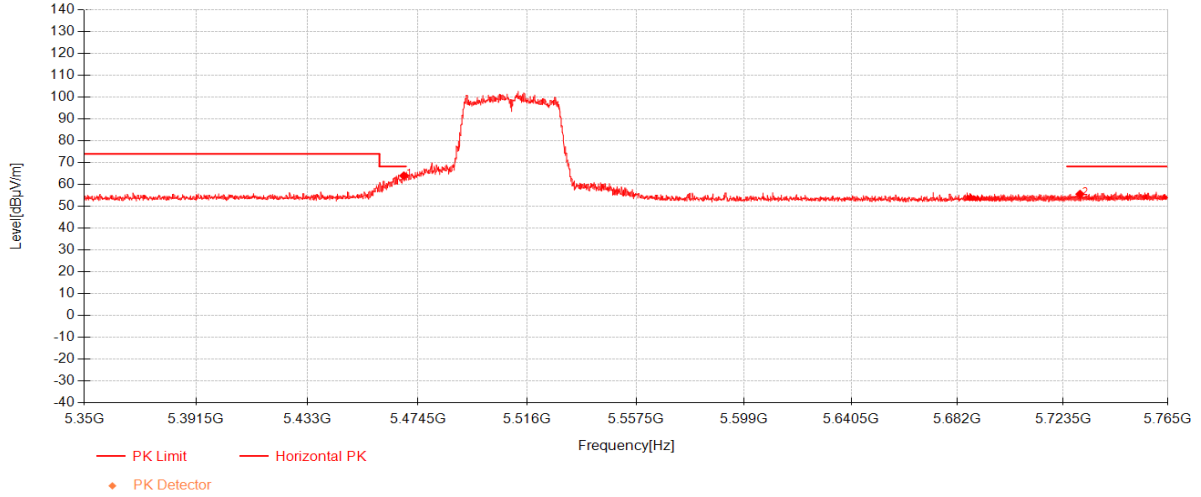
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.3	40.28	31.61	-17.76	54.13	74.00	19.87	Vertical
2	5351.575	43.18	32.18	-16.92	58.44	74.00	15.56	Vertical

11ac(VHT40)_TX_CH_62_Vertical_Average



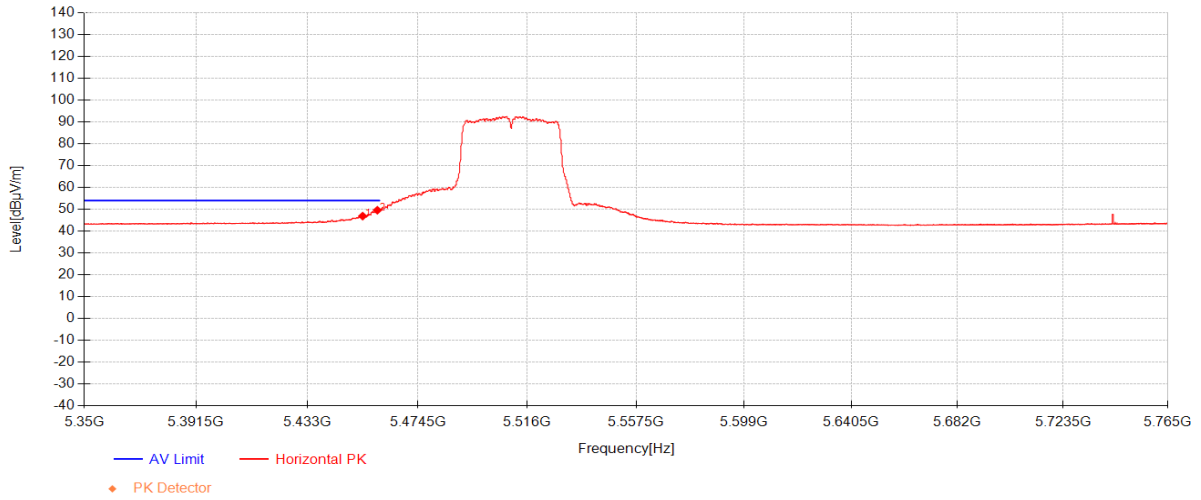
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5149.05	26.95	31.62	-17.76	40.81	54.00	13.19	Vertical
2	5350.6	32.49	32.18	-16.93	47.74	54.00	6.26	Vertical

11ac(VHT40)_TX_CH_102_Horizontal_Peak



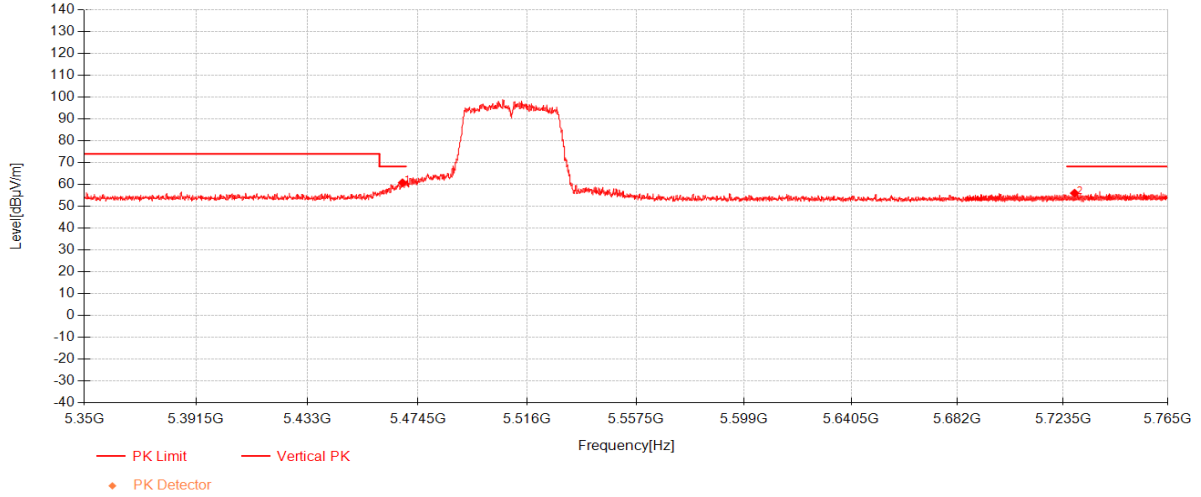
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5469.1763	48.56	32.51	-17.05	64.02	68.30	4.28	Horizontal
2	5730.14	39.75	32.69	-16.84	55.60	68.30	12.70	Horizontal

11ac(VHT40)_TX_CH_102_Horizontal_Average



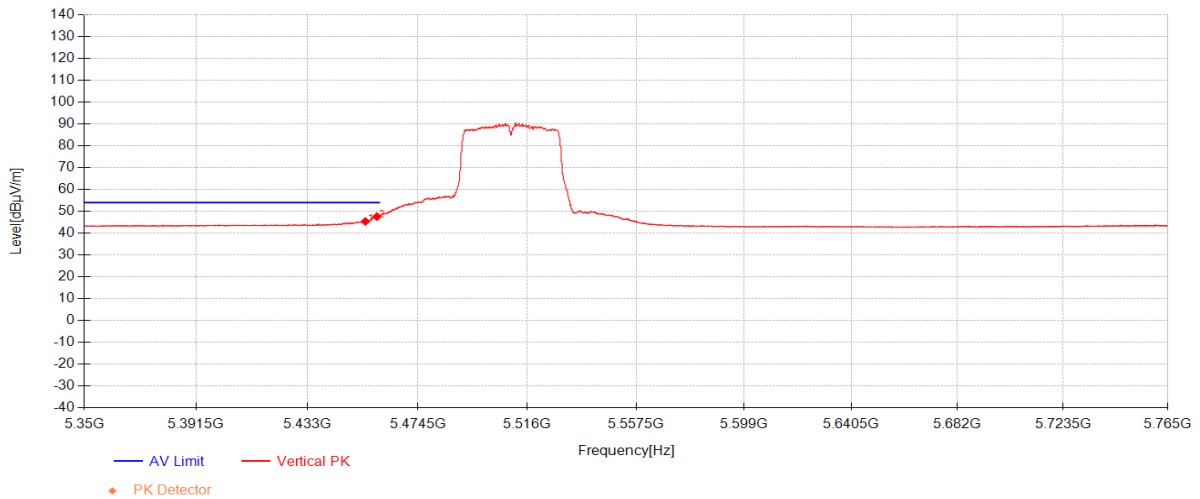
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5453.6825	31.40	32.47	-16.97	46.90	54.00	7.10	Horizontal
2	5459.21	34.10	32.49	-17.00	49.59	54.00	4.41	Horizontal

11ac(VHT40)_TX_CH_102_Vertical_Peak



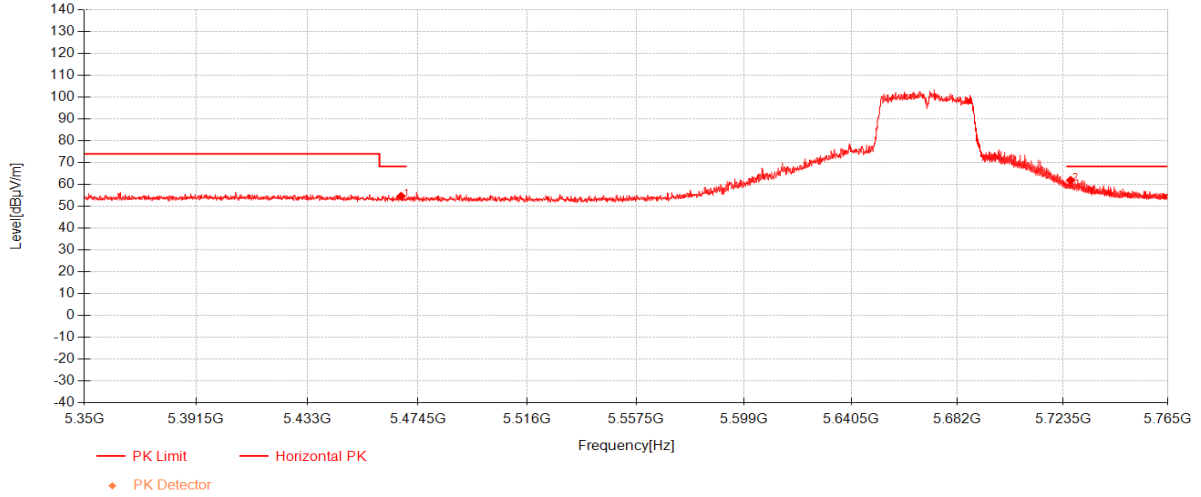
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5468.6738	45.36	32.51	-17.05	60.82	68.30	7.48	Vertical
2	5728	40.18	32.69	-16.85	56.02	68.30	12.28	Vertical

11ac(VHT40)_TX_CH_102_Vertical_Average



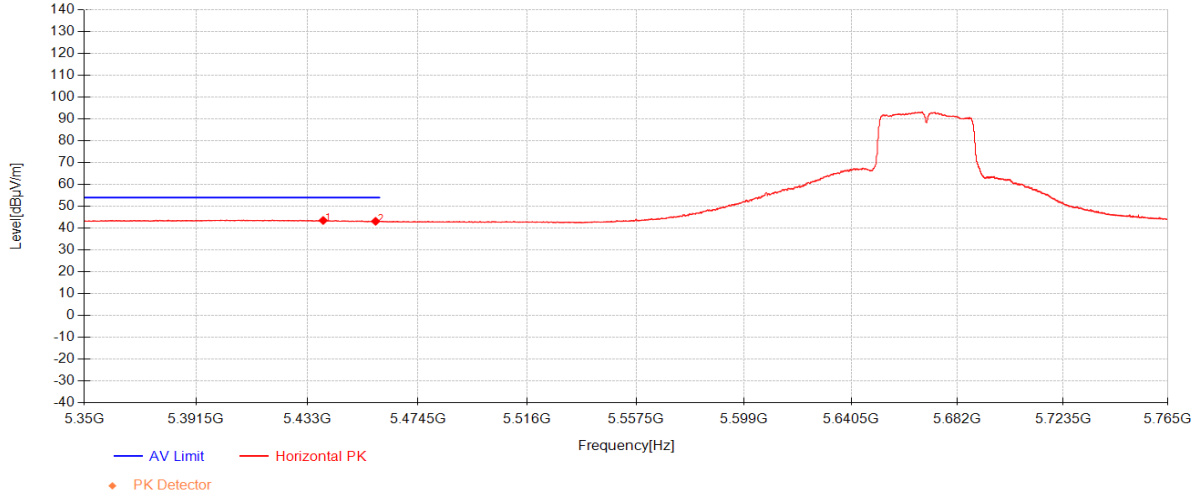
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5454.6875	29.88	32.47	-16.98	45.38	54.00	8.62	Vertical
2	5459.0425	32.10	32.49	-17.00	47.59	54.00	6.41	Vertical

11ac(VHT40)_TX_CH_134_Horizontal_Peak



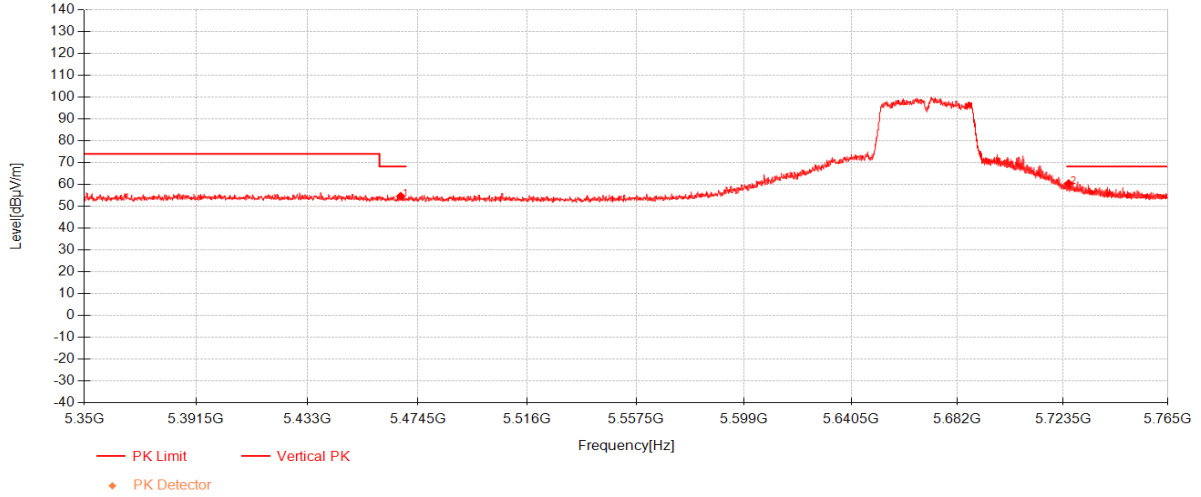
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5468.1712	39.21	32.51	-17.05	54.67	68.30	13.63	Horizontal
2	5726.42	46.11	32.69	-16.85	61.95	68.30	6.35	Horizontal

11ac(VHT40)_TX_CH_134_Horizontal_Average



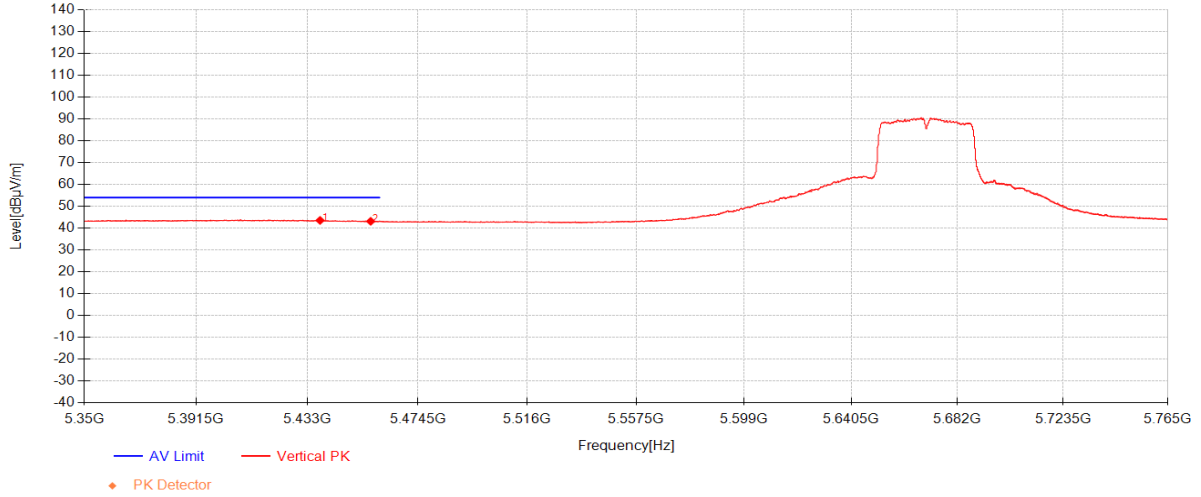
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5438.8588	27.98	32.43	-16.89	43.52	54.00	10.48	Horizontal
2	5458.54	27.66	32.48	-17.00	43.15	54.00	10.85	Horizontal

11ac(VHT40)_TX_CH_134_Vertical_Peak



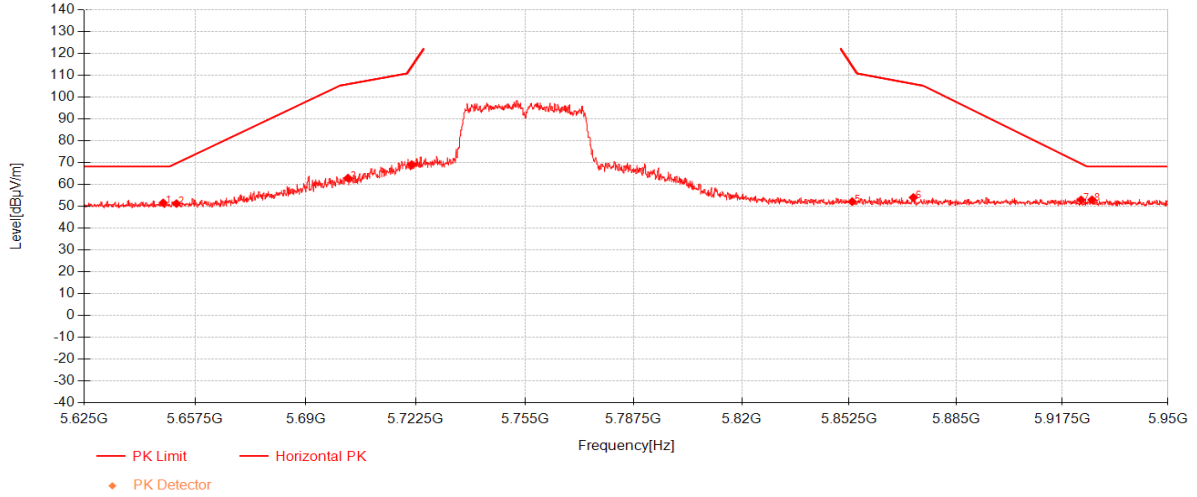
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5468.0038	39.15	32.51	-17.05	54.61	68.30	13.69	Vertical
2	5725.66	44.61	32.69	-16.86	60.44	68.30	7.86	Vertical

11ac(VHT40)_TX_CH_134_Veritical_Average



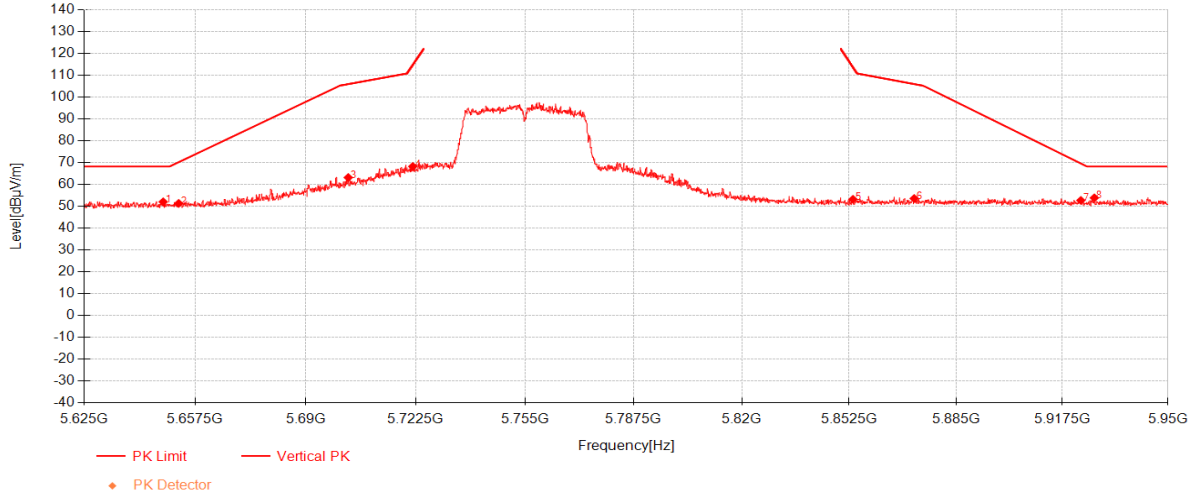
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5437.6862	28.00	32.43	-16.88	43.54	54.00	10.46	Vertical
2	5456.6975	27.66	32.48	-16.99	43.15	54.00	10.85	Vertical

11ac(VHT40)_TX_CH_151_Horizontal_Peak



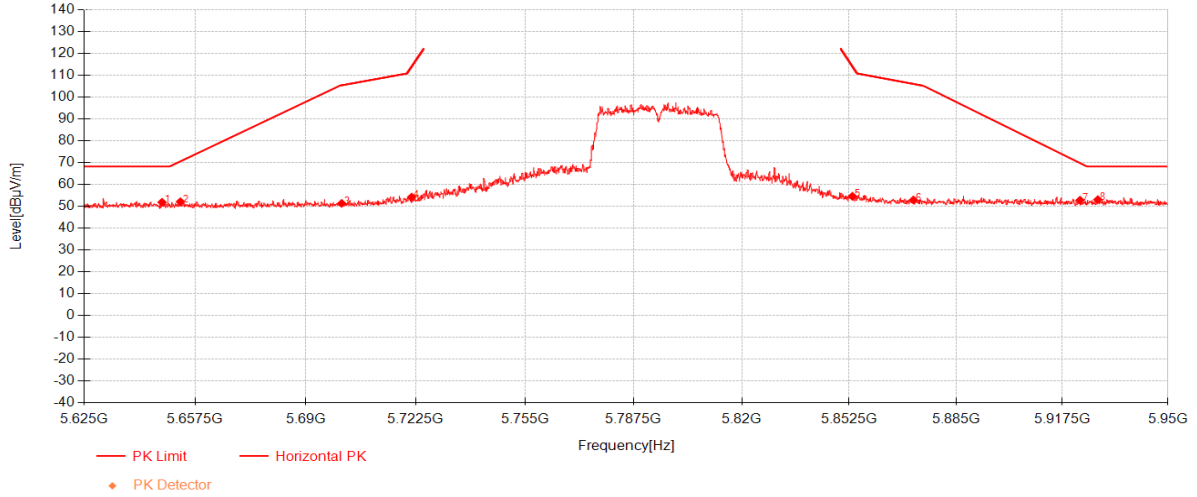
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5648.075	38.41	32.66	-19.46	51.61	68.30	16.69	Horizontal
2	5651.975	38.06	32.66	-19.46	51.26	69.77	18.51	Horizontal
3	5702.4312	49.74	32.68	-19.45	62.97	105.98	43.01	Horizontal
4	5721.2812	55.82	32.69	-19.33	69.17	113.82	44.65	Horizontal
5	5853.3938	38.24	32.74	-18.81	52.17	114.56	62.39	Horizontal
6	5872	40.11	32.75	-18.80	54.06	106.14	52.08	Horizontal
7	5923.2688	39.14	32.77	-18.95	52.96	69.58	16.62	Horizontal
8	5926.6	39.21	32.77	-18.97	53.01	68.30	15.29	Horizontal

11ac(VHT40)_TX_CH_151_Vertical_Peak



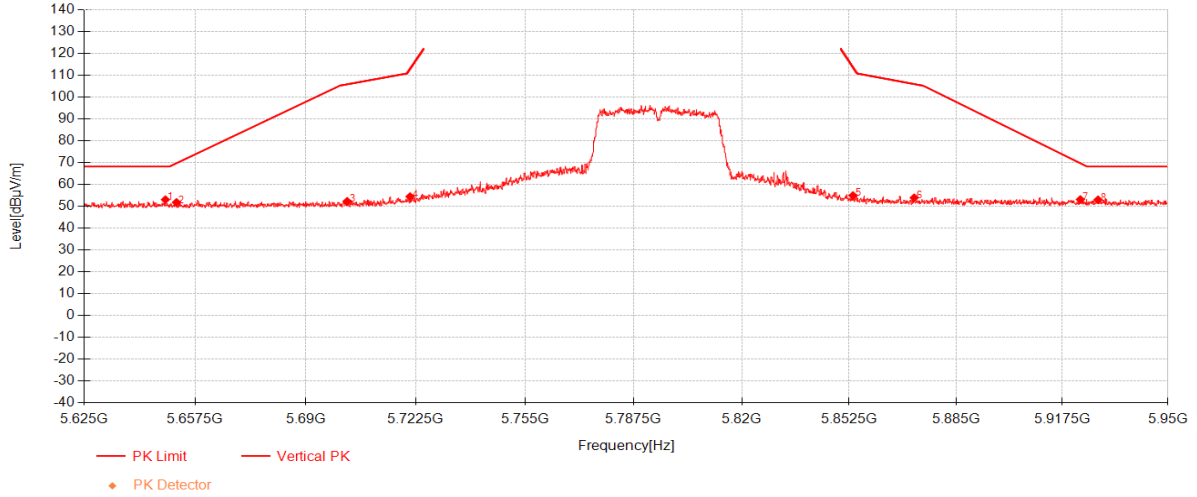
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5648.075	38.86	32.66	-19.46	52.06	68.30	16.24	Vertical
2	5652.625	38.14	32.66	-19.46	51.34	70.25	18.91	Vertical
3	5702.5125	49.97	32.68	-19.45	63.20	106.00	42.80	Vertical
4	5721.6062	54.92	32.69	-19.33	68.28	114.56	46.28	Vertical
5	5853.6375	39.28	32.74	-18.81	53.21	114.01	60.80	Vertical
6	5872.2438	39.65	32.75	-18.80	53.60	106.07	52.47	Vertical
7	5923.1875	38.91	32.77	-18.95	52.73	69.64	16.91	Vertical
8	5927.3312	40.10	32.77	-18.98	53.89	68.30	14.41	Vertical

11ac(VHT40)_TX_CH_159_Horizontal_Peak



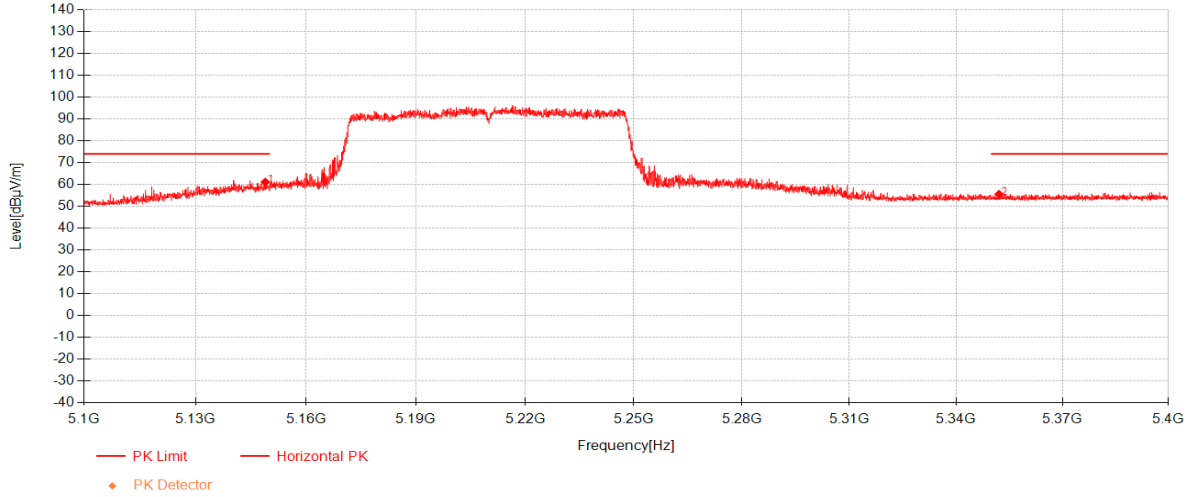
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5647.75	38.67	32.66	-19.46	51.87	68.30	16.43	Horizontal
2	5653.1125	38.92	32.66	-19.46	52.12	70.61	18.49	Horizontal
3	5700.5625	38.14	32.68	-19.47	51.35	105.46	54.11	Horizontal
4	5721.2812	40.92	32.69	-19.33	54.27	113.82	59.55	Horizontal
5	5853.475	40.69	32.74	-18.81	54.62	114.38	59.76	Horizontal
6	5872	38.98	32.75	-18.80	52.93	106.14	53.21	Horizontal
7	5922.9438	39.02	32.77	-18.95	52.84	69.82	16.98	Horizontal
8	5928.3875	39.27	32.77	-18.99	53.06	68.30	15.24	Horizontal

11ac(VHT40)_TX_CH_159_Vertical_Peak



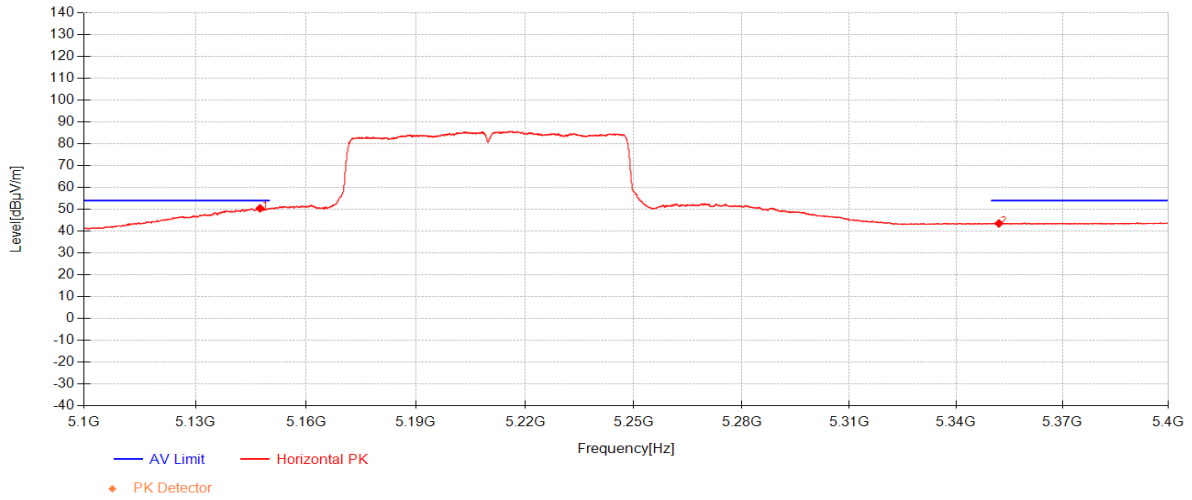
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5648.725	39.88	32.66	-19.46	53.08	68.30	15.22	Vertical
2	5651.975	38.61	32.66	-19.46	51.81	69.77	17.96	Vertical
3	5702.1875	39.08	32.68	-19.46	52.30	105.91	53.61	Vertical
4	5720.7938	41.13	32.69	-19.34	54.48	112.71	58.23	Vertical
5	5853.6375	41.04	32.74	-18.81	54.97	114.01	59.04	Vertical
6	5872.2438	39.98	32.75	-18.80	53.93	106.07	52.14	Vertical
7	5923.025	39.32	32.77	-18.95	53.14	69.76	16.62	Vertical
8	5928.4688	39.21	32.77	-18.99	52.99	68.30	15.31	Vertical

11ac(VHT80)_TX_CH_42_Horizontal_Peak



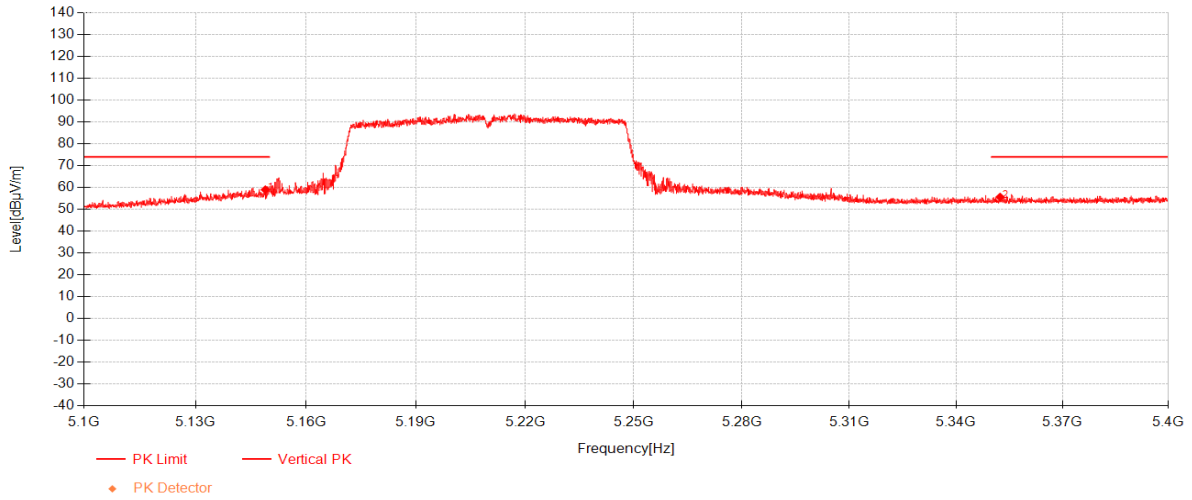
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5148.92	47.27	31.62	-17.76	61.13	74.00	12.87	Horizontal
2	5352.085	40.28	32.19	-16.92	55.55	74.00	18.45	Horizontal

11ac(VHT80)_TX_CH_42_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.52	36.61	31.61	-17.76	50.46	54.00	3.54	Horizontal
2	5352.05	28.27	32.19	-16.92	43.54	54.00	10.46	Horizontal

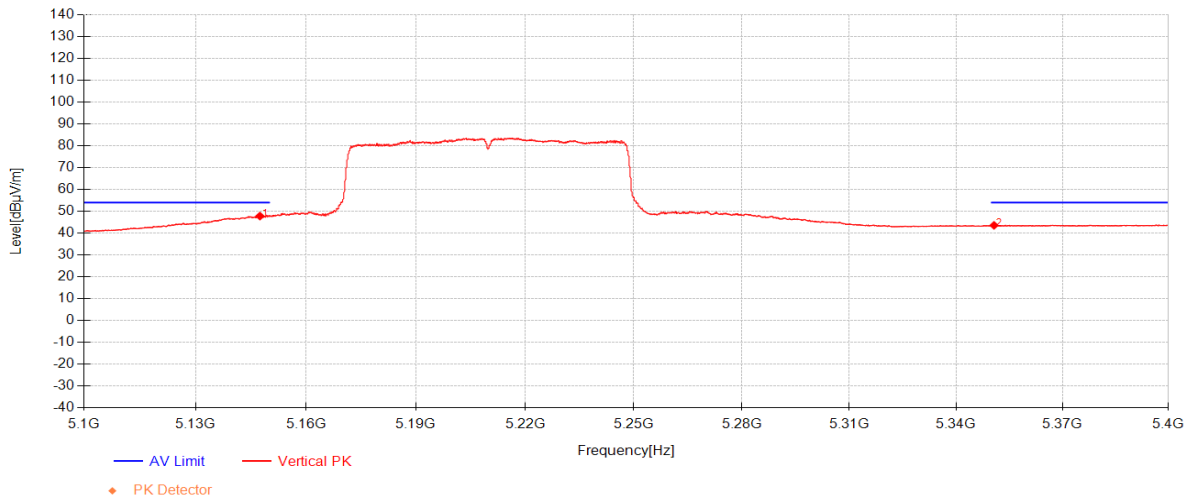
11ac(VHT80)_TX_CH_42_Vetical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5148.96	45.14	31.62	-17.76	59.00	74.00	15.00	Vertical
2	5352.4	40.35	32.19	-16.92	55.62	74.00	18.38	Vertical

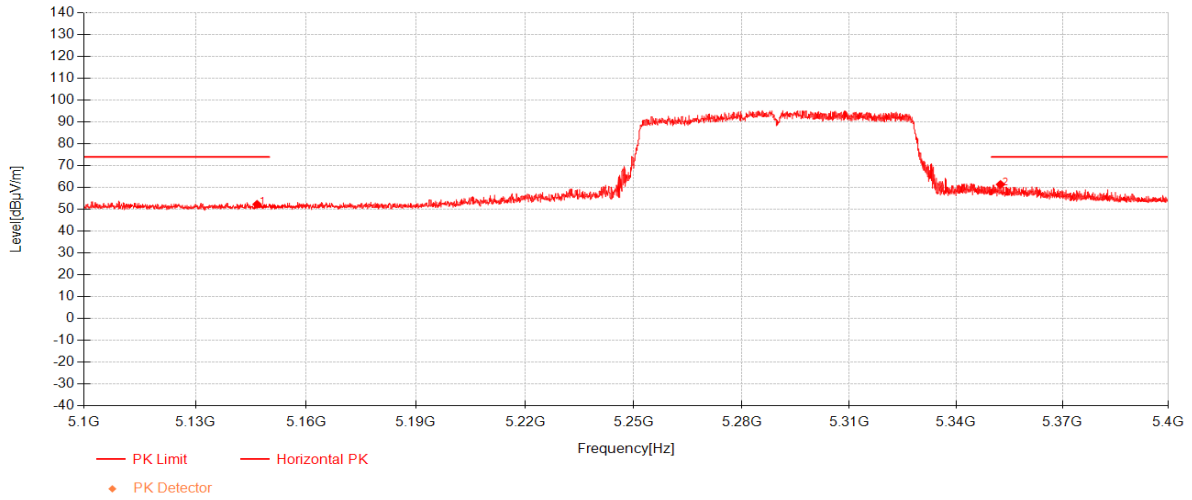


11ac(VHT80)_TX_CH_42_Vertical_Average



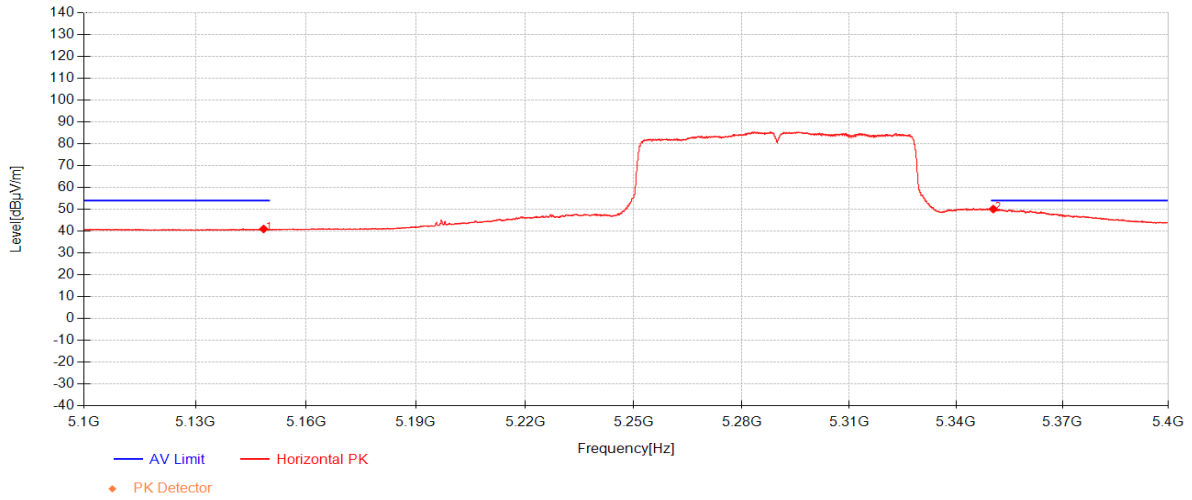
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.48	33.98	31.61	-17.76	47.83	54.00	6.17	Vertical
2	5350.685	28.30	32.18	-16.93	43.56	54.00	10.44	Vertical

11ac(VHT80)_TX_CH_58_Horizontal_Peak



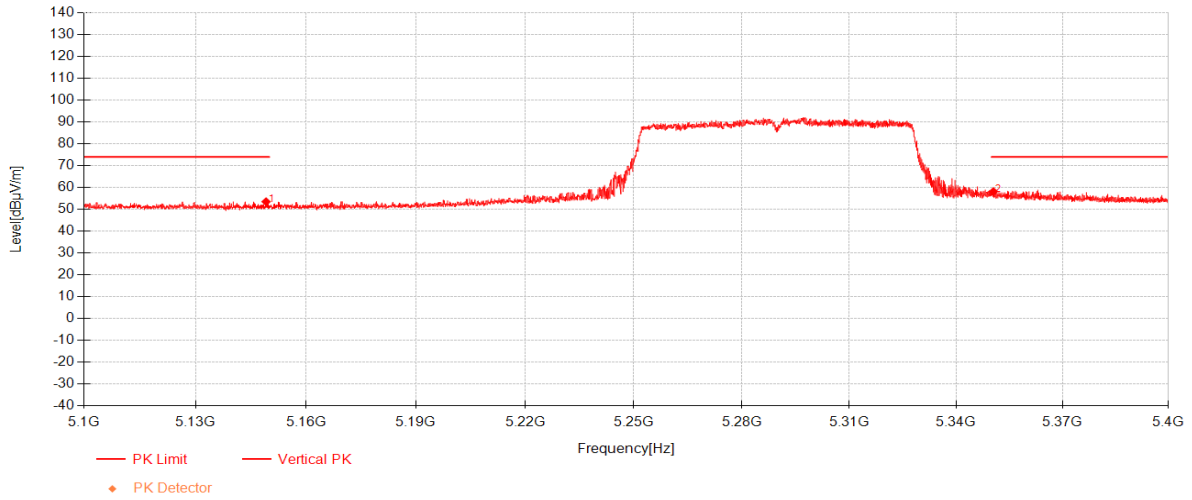
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5146.7	38.47	31.61	-17.76	52.32	74.00	21.68	Horizontal
2	5352.5	46.15	32.19	-16.92	61.42	74.00	12.58	Horizontal

11ac(VHT80)_TX_CH_58_Horizontal_Average



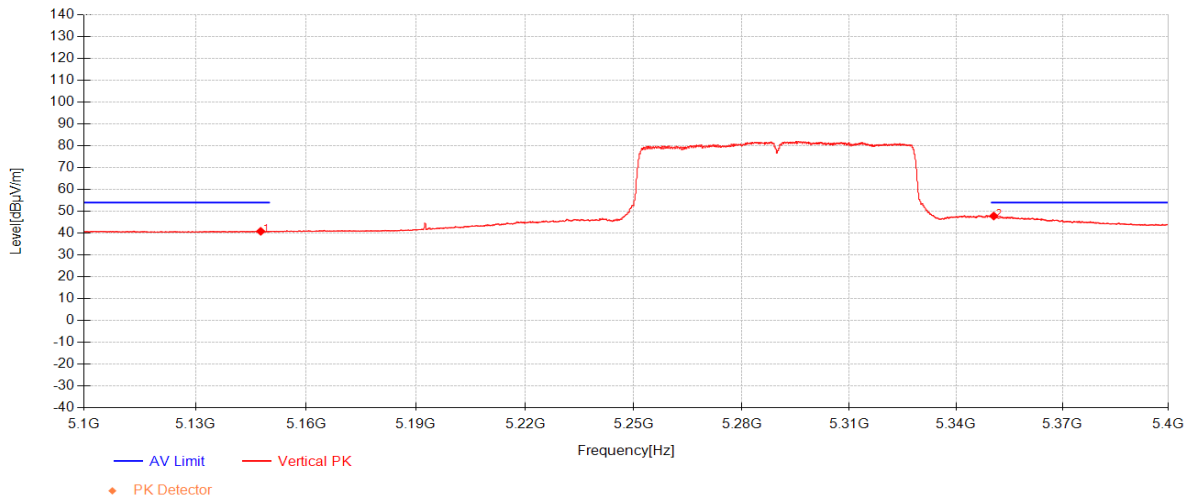
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5148.5	27.14	31.62	-17.76	41.00	54.00	13.00	Horizontal
2	5350.475	34.86	32.18	-16.93	50.11	54.00	3.89	Horizontal

11ac(VHT80)_TX_CH_58_Vetical_Peak



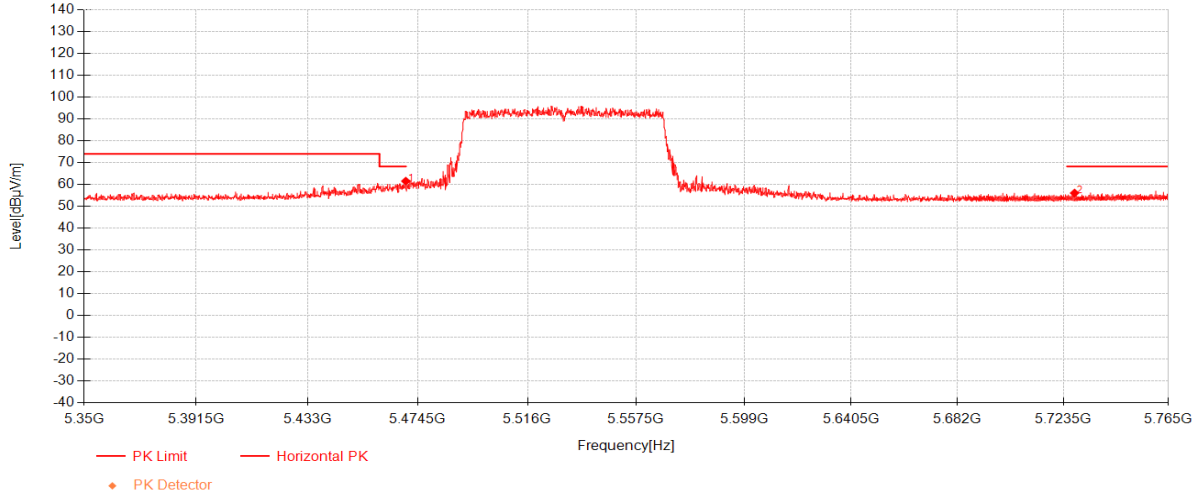
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5149.15	39.64	31.62	-17.76	53.50	74.00	20.50	Vertical
2	5350.5	42.91	32.18	-16.93	58.16	74.00	15.84	Vertical

11ac(VHT80)_TX_CH_58_Vertical_Average



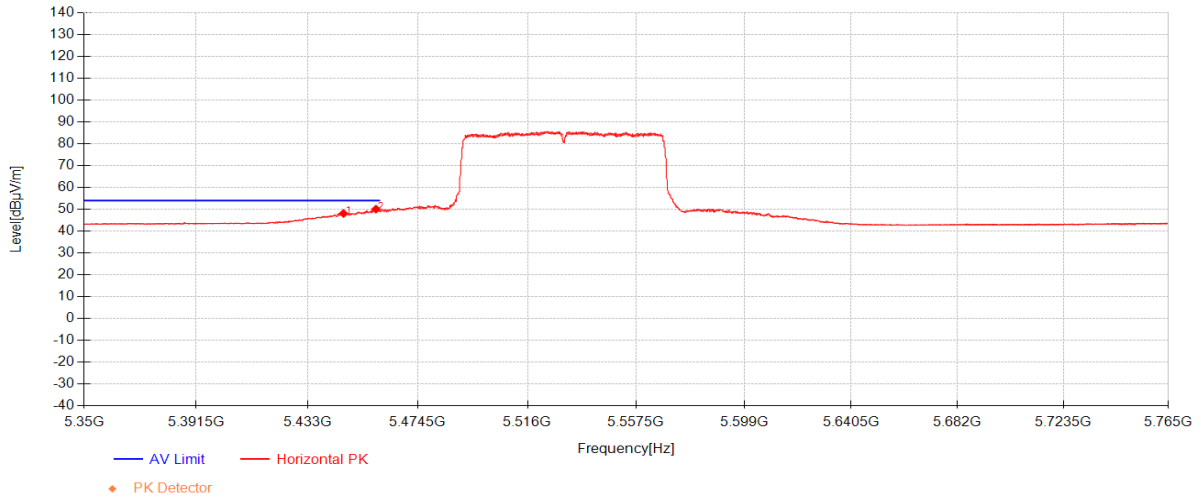
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.7	26.99	31.61	-17.76	40.84	54.00	13.16	Vertical
2	5350.6	32.60	32.18	-16.93	47.85	54.00	6.15	Vertical

11ac(VHT80)_TX_CH_106_Horizontal_Peak



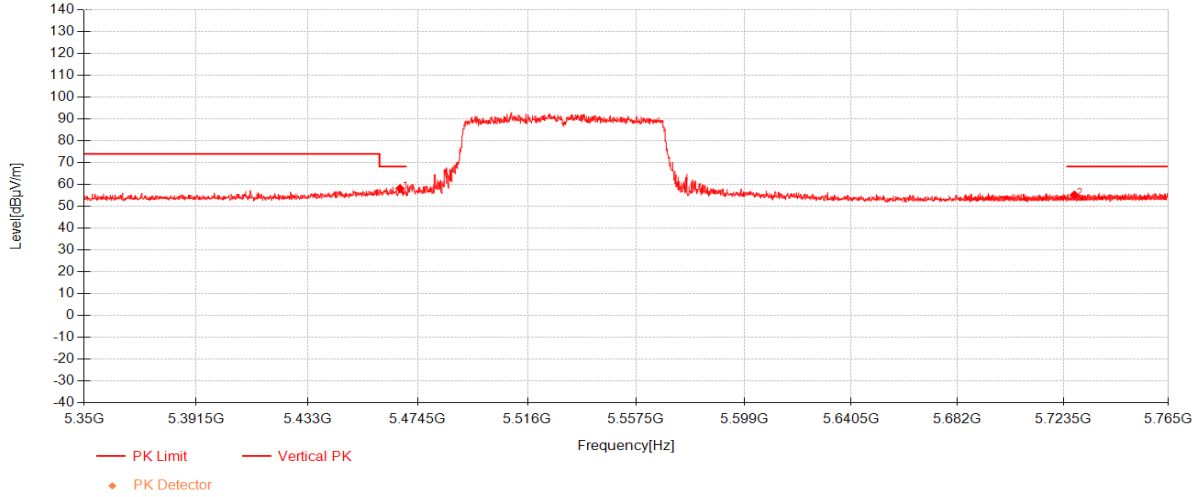
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5469.93	46.08	32.52	-17.06	61.54	68.30	6.76	Horizontal
2	5727.98	40.26	32.69	-16.85	56.10	68.30	12.20	Horizontal

11ac(VHT80)_TX_CH_106_Horizontal_Average



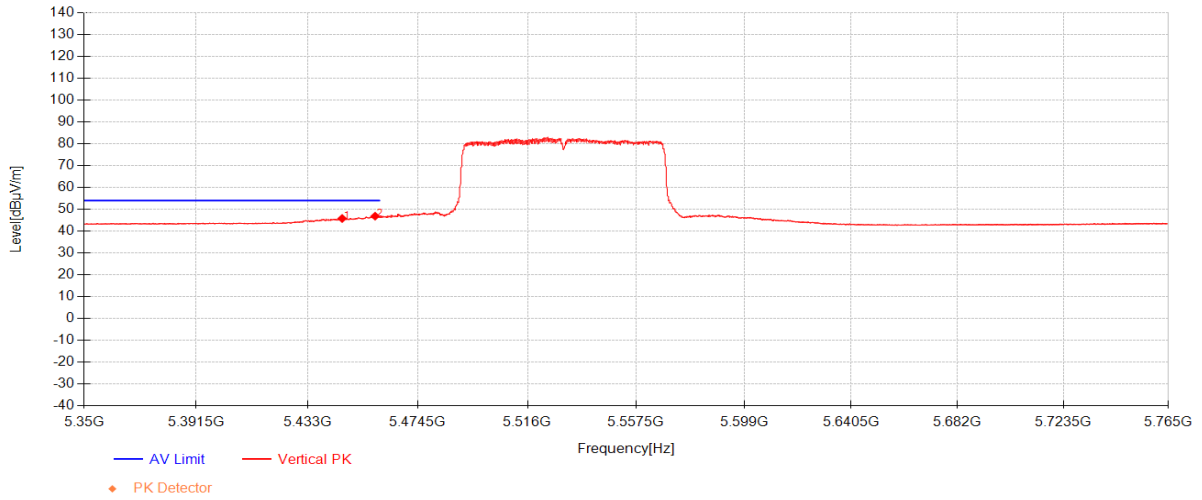
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5446.48	32.59	32.45	-16.93	48.11	54.00	5.89	Horizontal
2	5458.7075	34.60	32.48	-17.00	50.09	54.00	3.91	Horizontal

11ac(VHT80)_TX_CH_106_Vertical_Peak



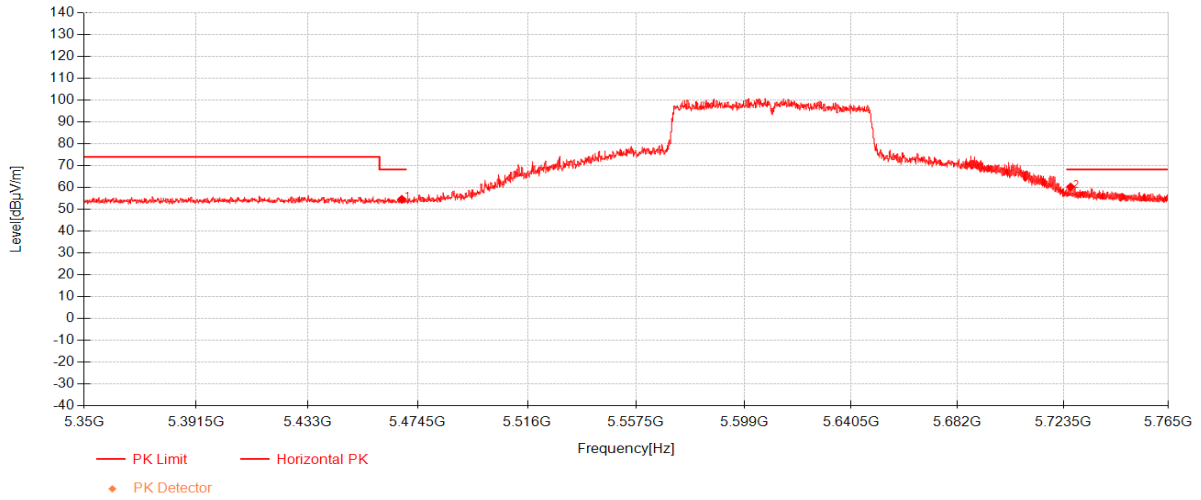
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5467.7525	42.71	32.51	-17.05	58.17	68.30	10.13	Vertical
2	5727.9	39.38	32.69	-16.85	55.22	68.30	13.08	Vertical

11ac(VHT80)_TX_CH_106_Vertical_Average



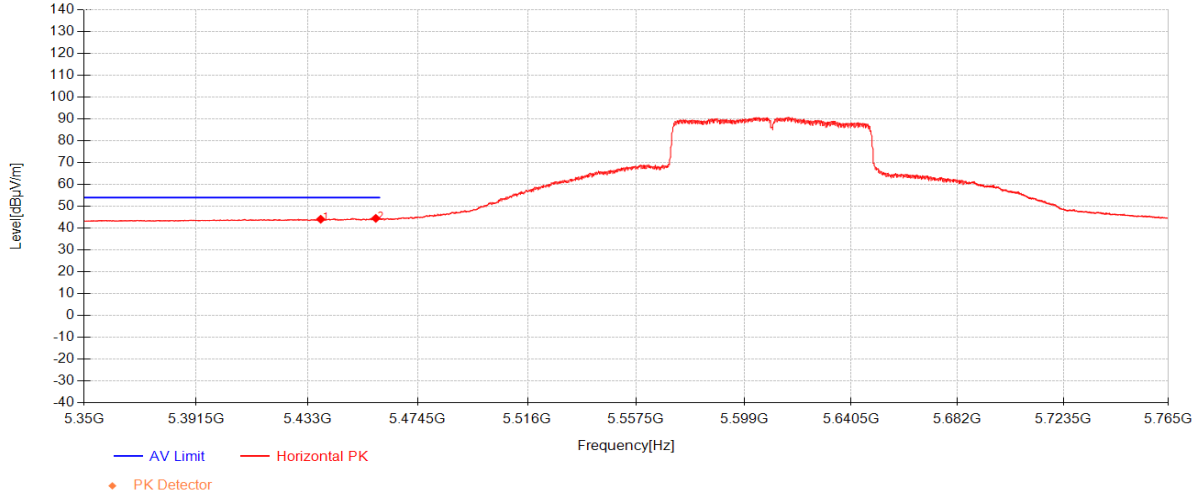
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5445.9775	30.30	32.45	-16.93	45.82	54.00	8.18	Vertical
2	5458.3725	31.37	32.48	-17.00	46.86	54.00	7.14	Vertical

11ac(VHT80)_TX_CH_122_Horizontal_Peak



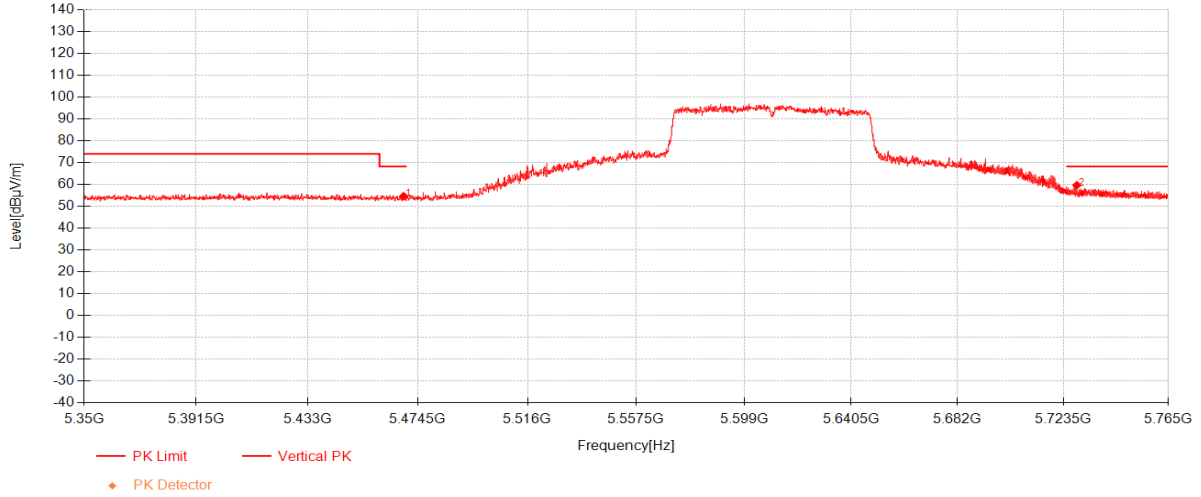
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5468.4225	39.16	32.51	-17.05	54.62	68.30	13.68	Horizontal
2	5726.42	44.41	32.69	-16.85	60.25	68.30	8.05	Horizontal

11ac(VHT80)_TX_CH_122_Horizontal_Average



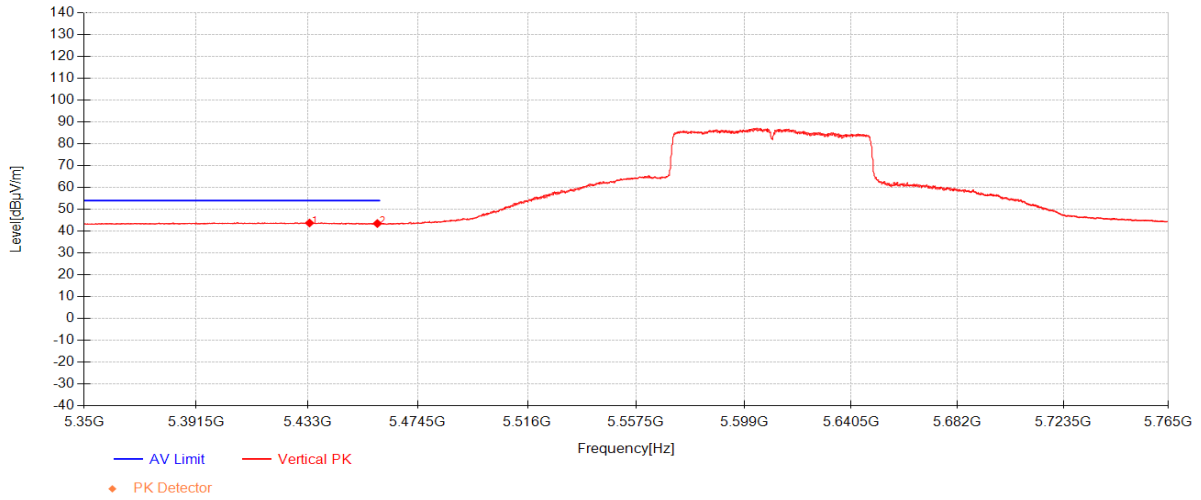
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5437.9375	28.54	32.43	-16.88	44.08	54.00	9.92	Horizontal
2	5458.6238	28.99	32.48	-17.00	44.48	54.00	9.52	Horizontal

11ac(VHT80)_TX_CH_122_Veritical_Peak



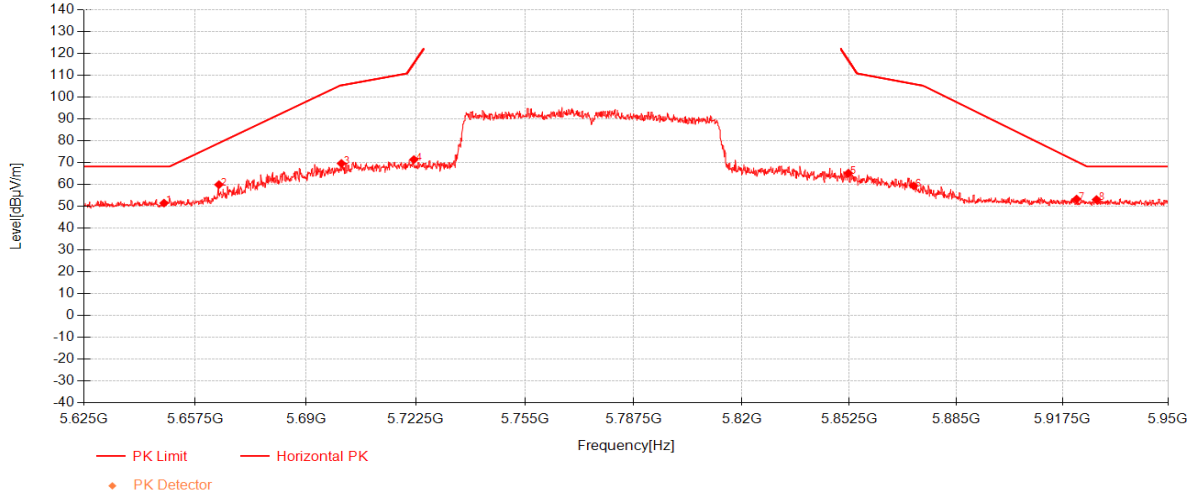
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5469.0925	39.17	32.51	-17.05	54.63	68.30	13.67	Vertical
2	5728.88	43.83	32.69	-16.84	59.68	68.30	8.62	Vertical

11ac(VHT80)_TX_CH_122_Veritical_Average



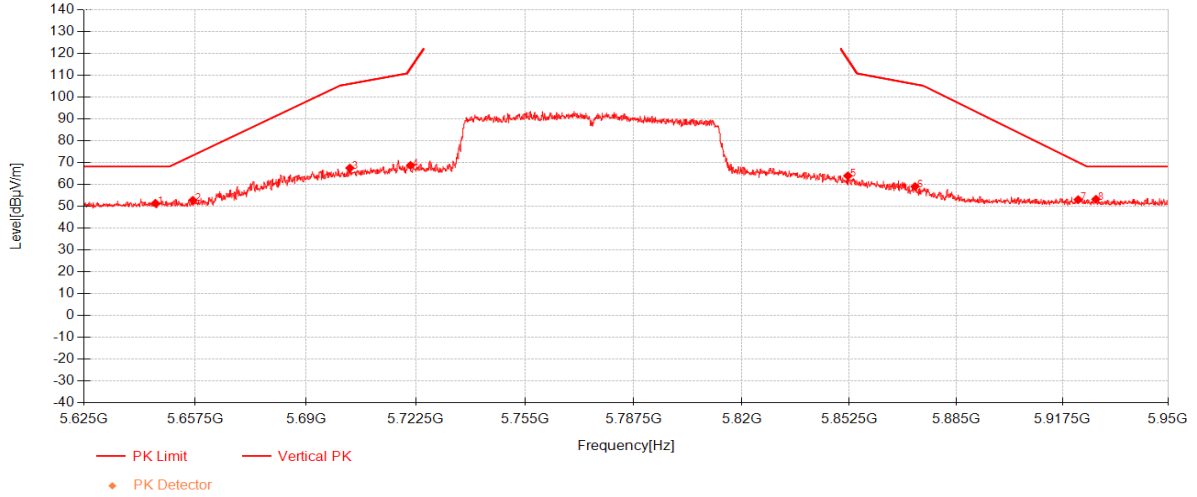
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5433.75	28.18	32.41	-16.86	43.73	54.00	10.27	Vertical
2	5459.21	28.01	32.49	-17.00	43.50	54.00	10.50	Vertical

11ac(VHT80)_TX_CH_155_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5648.3188	38.29	32.66	-19.46	51.49	68.30	16.81	Horizontal
2	5664.4062	46.74	32.67	-19.46	59.94	78.99	19.05	Horizontal
3	5700.4812	56.47	32.68	-19.47	69.68	105.43	35.75	Horizontal
4	5721.9312	58.07	32.69	-19.33	71.43	115.30	43.87	Horizontal
5	5852.2562	51.28	32.74	-18.81	65.21	117.15	51.94	Horizontal
6	5872.0812	45.45	32.75	-18.80	59.40	106.12	46.72	Horizontal
7	5921.8875	39.49	32.77	-18.94	53.32	70.59	17.27	Horizontal
8	5927.9812	39.30	32.77	-18.98	53.09	68.30	15.21	Horizontal

11ac(VHT80)_TX_CH_155_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5645.8	38.22	32.66	-19.46	51.42	68.30	16.88	Vertical
2	5656.7688	39.59	32.66	-19.46	52.79	73.33	20.54	Vertical
3	5703	54.34	32.68	-19.45	67.57	106.14	38.57	Vertical
4	5720.9562	55.44	32.69	-19.34	68.79	113.08	44.29	Vertical
5	5852.0938	50.06	32.74	-18.81	63.99	117.53	53.54	Vertical
6	5872.4875	45.14	32.75	-18.80	59.09	106.00	46.91	Vertical
7	5922.375	39.26	32.77	-18.94	53.08	70.23	17.15	Vertical
8	5927.8188	39.48	32.77	-18.98	53.27	68.30	15.03	Vertical

7.5 Duty Cycle

Test Requirement ANSI C63.10-2020+Cor.1-2023 Section 12.2

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.2

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C

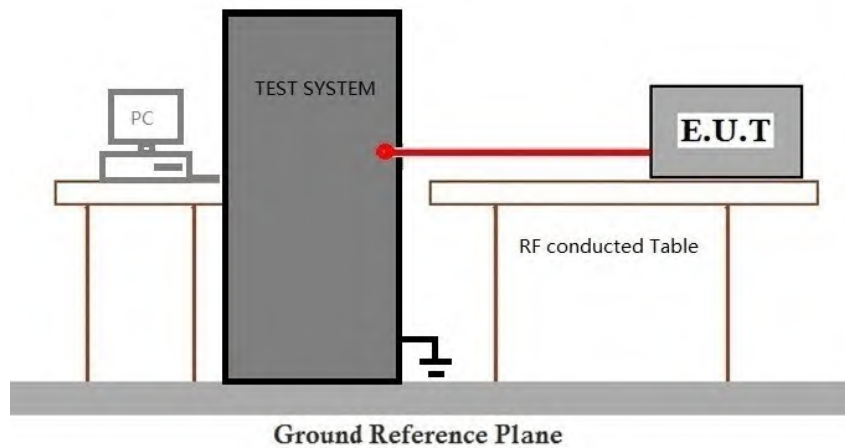
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 99% Bandwidth

Test Requirement ANSI C63.10-2020+Cor.1-2023 Section 12.5.3

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.9.3

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

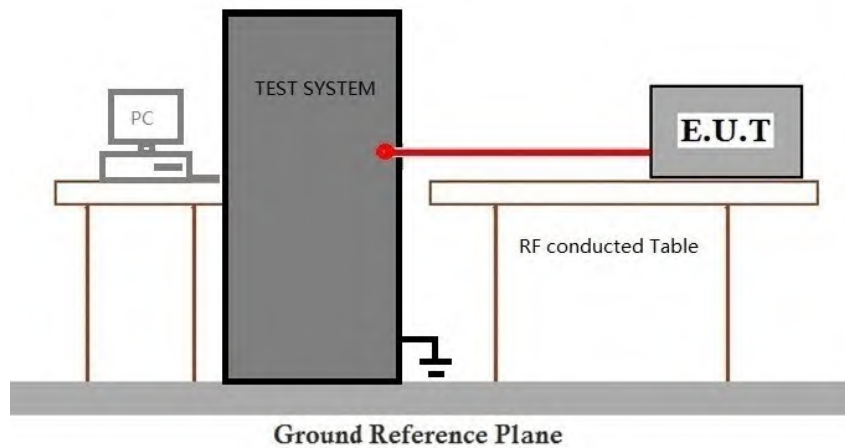
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 26dB Emission Bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.5.2

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

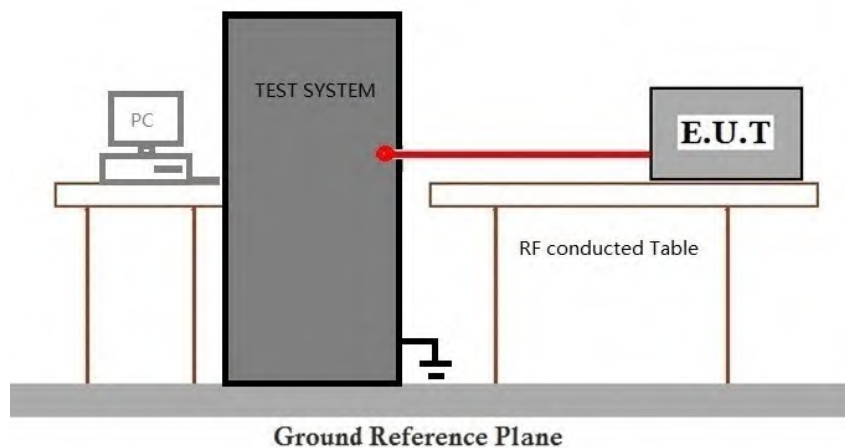
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Minimum 6 dB Bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.5.1

Limit:

Frequency band(MHz)	Limit
5725-5850	≥ 500 kHz

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

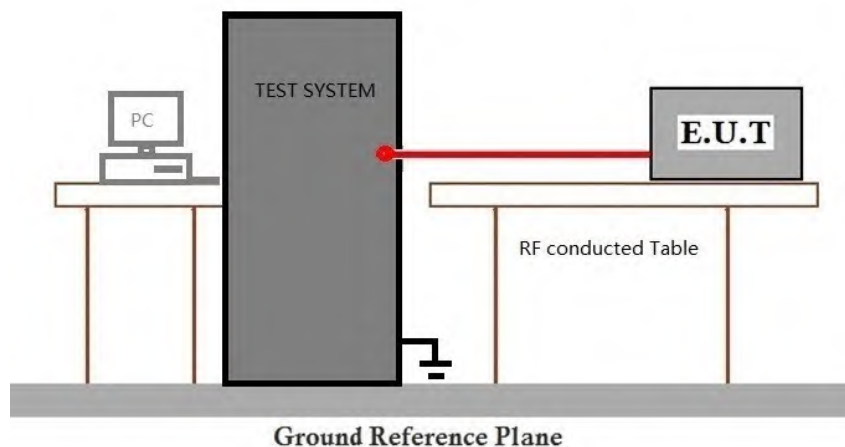
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.4

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

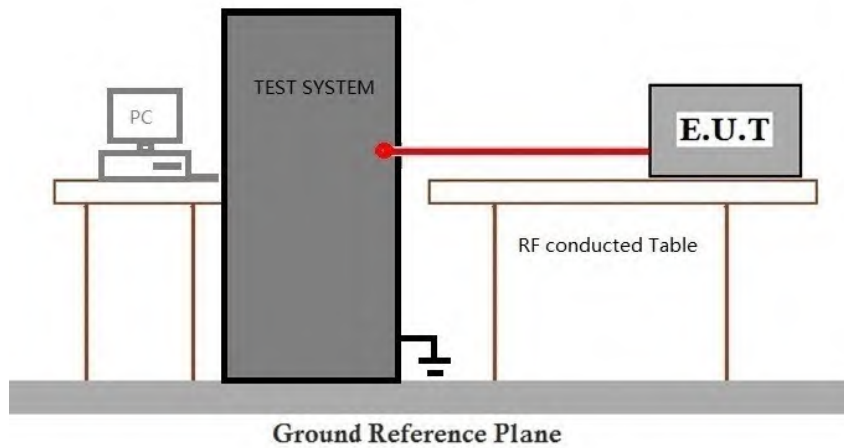
Humidity: 44 % RH

Atmospheric Pressure: 1001 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details

7.10 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.6

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.10.1 E.U.T. Operation

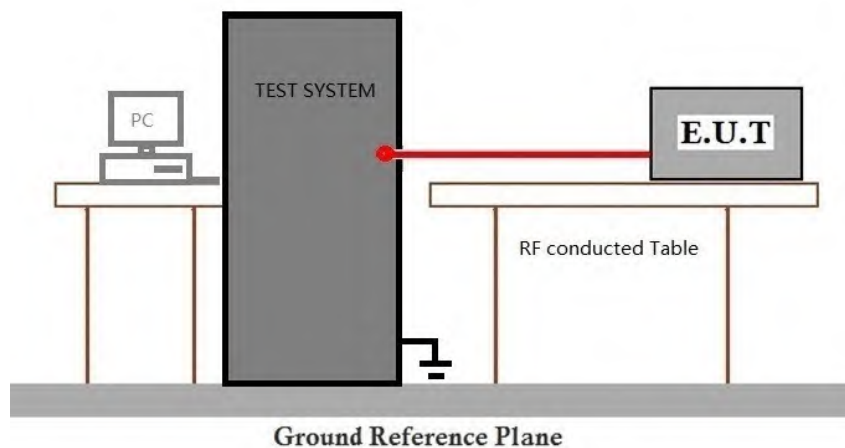
Operating Environment:

Temperature: 23 °C Humidity: 44 % RH Atmospheric Pressure: 1001 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram





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7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.11 Non-occupancy Period

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.11.1 E.U.T. Operation

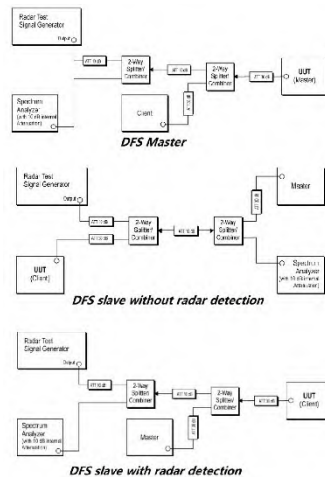
Operating Environment:

Temperature: 23 °C Humidity: 43 % RH Atmospheric Pressure: 1001 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Normal operating_Keep the EUT communication with the companion device.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T₀ the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.12 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.12.1 E.U.T. Operation

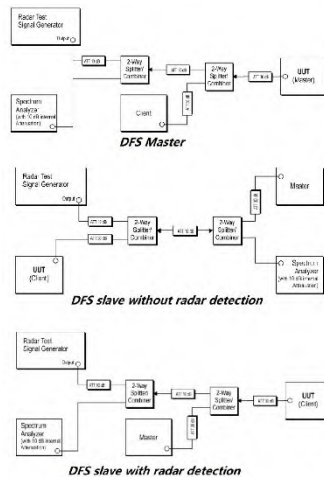
Operating Environment:

Temperature: 22 °C Humidity: 43 % RH Atmospheric Pressure: 1001 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Normal operating_Keep the EUT communication with the companion device.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T₀ the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.13 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.			

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 43 % RH Atmospheric Pressure: 1001 mbar

7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Normal operating_Keep the EUT communication with the companion device.

DFS Master

DFS slave without radar detection

DFS slave with radar detection

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

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8 Test Setup Photo

Refer to Appendix C.3 - Test Setup Photo for SUCR2607000642TL

9 EUT Constructional Details (EUT Photos)

Refer to Appendix C.1_External Photos for SUCR2607000642TL and Appendix C.2_Internal Photos for SUCR2607000642TL

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.067	2.102	98.33	0.07	0.03
802.11n (HT20)	SISO	5180	1.927	1.962	98.22	0.08	0.03
802.11n (HT40)	SISO	5190	0.949	0.984	96.44	0.16	0.00
802.11ac (VHT20)	SISO	5180	1.927	1.963	98.17	0.08	0.03
802.11ac (VHT40)	SISO	5190	0.953	0.988	96.46	0.16	0.03
802.11ac (VHT80)	SISO	5210	0.465	0.501	92.81	0.32	0.07

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.647	/	Pass
		5200	1	16.560	/	Pass
		5240	1	16.545	/	Pass
		5260	1	16.558	/	Pass
		5300	1	16.640	/	Pass
		5320	1	16.568	/	Pass
		5500	1	16.547	/	Pass
		5600	1	16.519	/	Pass
		5700	1	16.535	/	Pass
		5745	1	16.522	/	Pass
		5785	1	16.521	/	Pass
		5825	1	16.548	/	Pass
802.11n (HT20)	SISO	5180	1	17.754	/	Pass
		5200	1	17.777	/	Pass
		5240	1	17.764	/	Pass
		5260	1	17.800	/	Pass
		5300	1	17.755	/	Pass
		5320	1	17.760	/	Pass
		5500	1	17.752	/	Pass
		5600	1	17.752	/	Pass
		5700	1	17.743	/	Pass
		5745	1	17.744	/	Pass
		5785	1	17.723	/	Pass
		5825	1	17.731	/	Pass
802.11n (HT40)	SISO	5190	1	36.510	/	Pass
		5230	1	36.541	/	Pass
		5270	1	36.513	/	Pass
		5310	1	36.543	/	Pass
		5510	1	36.538	/	Pass
		5590	1	36.526	/	Pass
		5670	1	36.553	/	Pass
		5755	1	36.519	/	Pass
		5795	1	36.413	/	Pass
802.11ac (VHT20)	SISO	5180	1	17.793	/	Pass
		5200	1	17.789	/	Pass
		5240	1	17.721	/	Pass
		5260	1	17.732	/	Pass
		5300	1	17.753	/	Pass
		5320	1	17.747	/	Pass
		5500	1	17.775	/	Pass
		5600	1	17.737	/	Pass

		5700	1	17.737	/	Pass
		5745	1	17.746	/	Pass
		5785	1	17.731	/	Pass
		5825	1	17.729	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.530	/	Pass
		5230	1	36.477	/	Pass
		5270	1	36.449	/	Pass
		5310	1	36.536	/	Pass
		5510	1	36.492	/	Pass
		5590	1	36.509	/	Pass
		5670	1	36.582	/	Pass
		5755	1	36.428	/	Pass
802.11ac (VHT80)	SISO	5795	1	36.372	/	Pass
		5210	1	76.056	/	Pass
		5290	1	75.885	/	Pass
		5530	1	75.892	/	Pass
		5610	1	76.013	/	Pass
		5775	1	75.567	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	23.974	/	Pass
		5200	1	24.221	/	Pass
		5240	1	23.986	/	Pass
		5260	1	23.466	/	Pass
		5300	1	22.303	/	Pass
		5320	1	23.794	/	Pass
		5500	1	22.090	/	Pass
		5600	1	22.984	/	Pass
802.11n (HT20)	SISO	5700	1	23.180	/	Pass
		5180	1	24.295	/	Pass
		5200	1	23.972	/	Pass
		5240	1	24.289	/	Pass
		5260	1	25.417	/	Pass
		5300	1	23.339	/	Pass
		5320	1	23.295	/	Pass
		5500	1	23.357	/	Pass
802.11n (HT40)	SISO	5600	1	23.003	/	Pass
		5700	1	22.884	/	Pass
		5190	1	41.003	/	Pass
		5230	1	41.511	/	Pass
		5270	1	41.572	/	Pass
		5310	1	41.336	/	Pass
		5510	1	41.162	/	Pass
		5590	1	41.349	/	Pass
802.11ac (VHT20)	SISO	5670	1	41.838	/	Pass
		5180	1	24.121	/	Pass
		5200	1	23.325	/	Pass

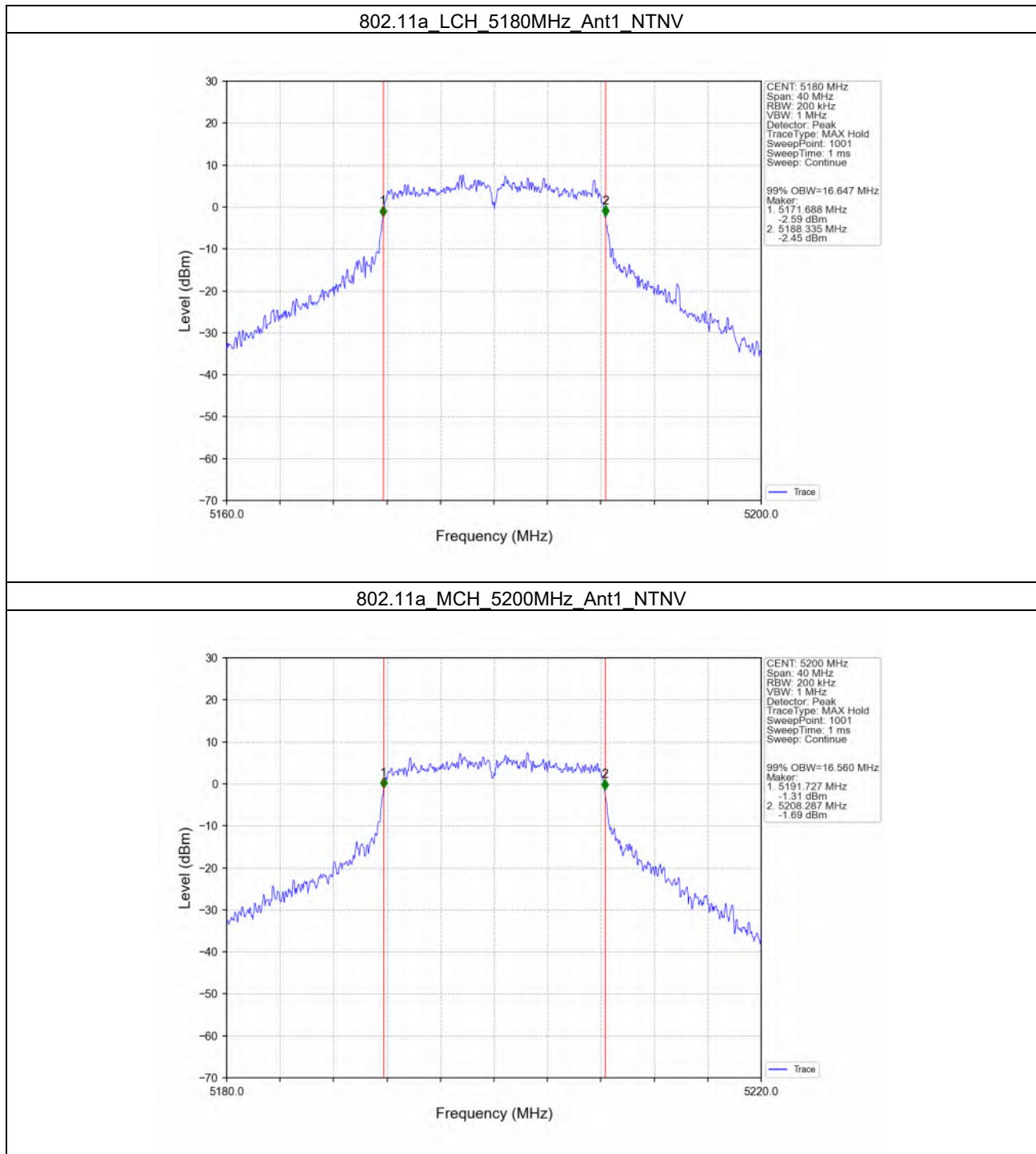
		5240	1	24.571	/	Pass
		5260	1	24.498	/	Pass
		5300	1	23.257	/	Pass
		5320	1	24.385	/	Pass
		5500	1	23.250	/	Pass
		5600	1	23.137	/	Pass
		5700	1	23.133	/	Pass
802.11ac (VHT40)	SISO	5190	1	41.453	/	Pass
		5230	1	41.387	/	Pass
		5270	1	41.723	/	Pass
		5310	1	41.236	/	Pass
		5510	1	41.058	/	Pass
		5590	1	41.603	/	Pass
		5670	1	41.919	/	Pass
802.11ac (VHT80)	SISO	5210	1	111.039	/	Pass
		5290	1	110.400	/	Pass
		5530	1	102.656	/	Pass
		5610	1	104.802	/	Pass

2.1.3 6dB BW

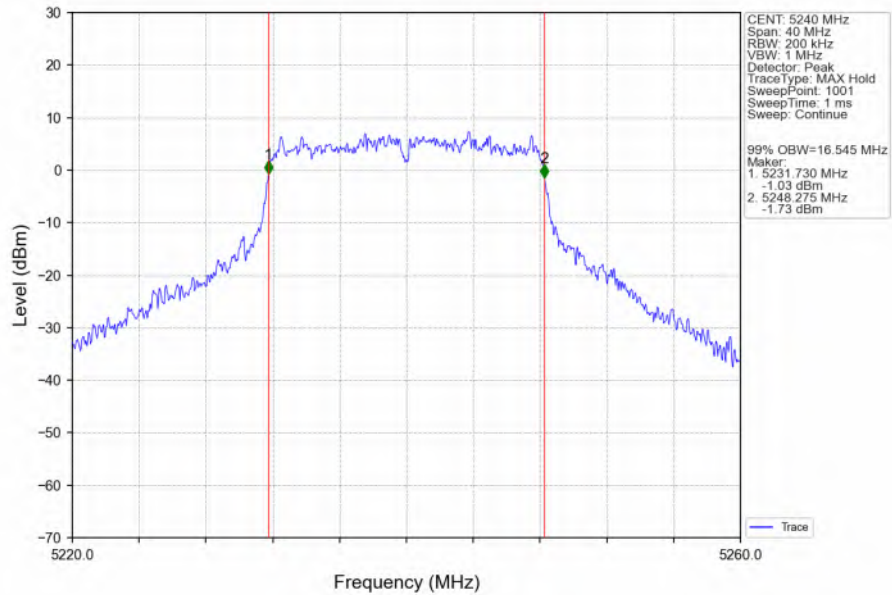
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.077	≥ 0.5	Pass
		5785	1	14.244	≥ 0.5	Pass
		5825	1	16.063	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	16.301	≥ 0.5	Pass
		5785	1	15.118	≥ 0.5	Pass
		5825	1	15.874	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.696	≥ 0.5	Pass
		5795	1	35.358	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	16.885	≥ 0.5	Pass
		5785	1	13.837	≥ 0.5	Pass
		5825	1	13.858	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.981	≥ 0.5	Pass
		5795	1	35.658	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.191	≥ 0.5	Pass

2.2 Test Graph

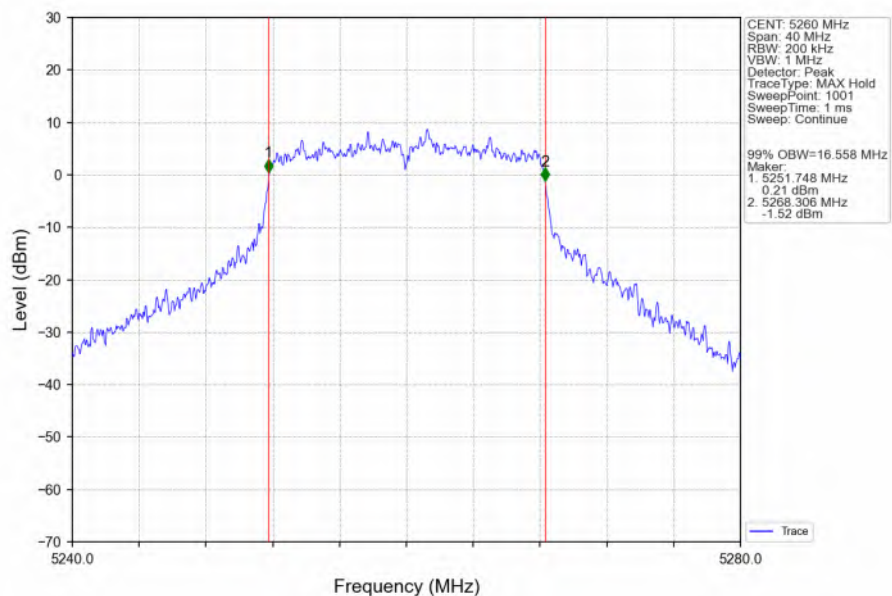
2.2.1 OBW



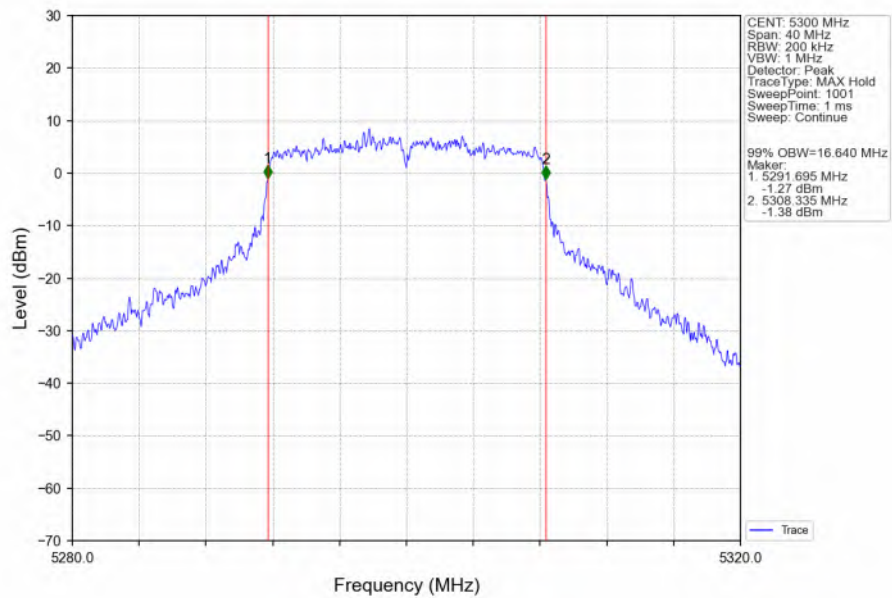
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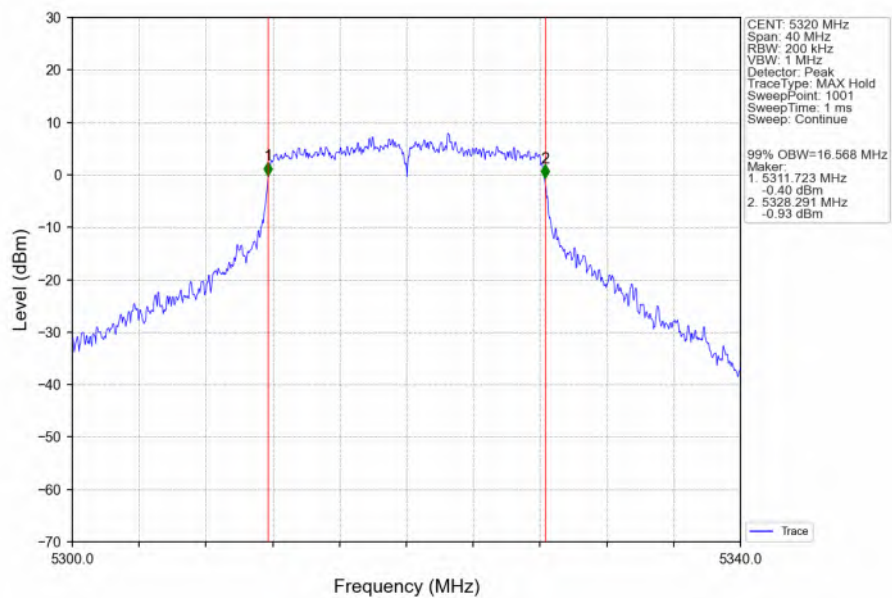
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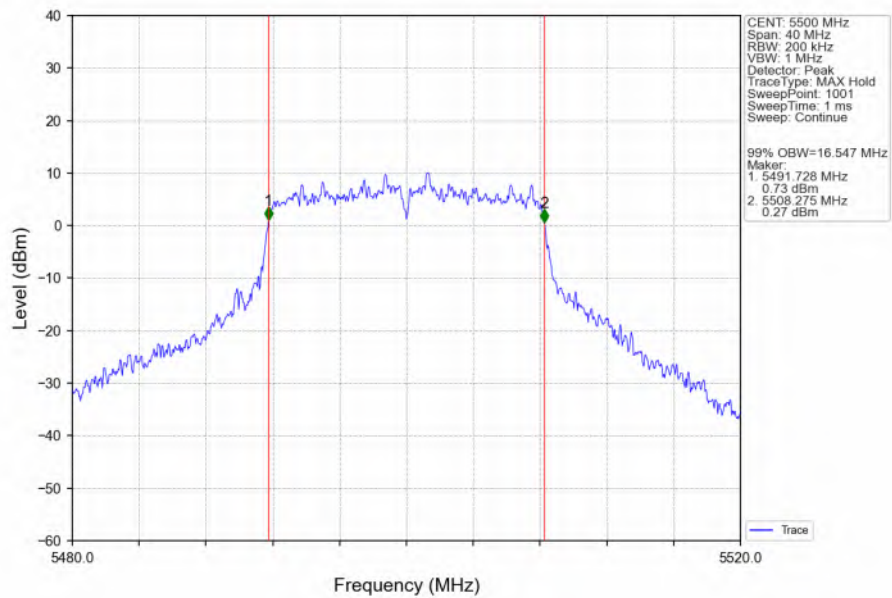
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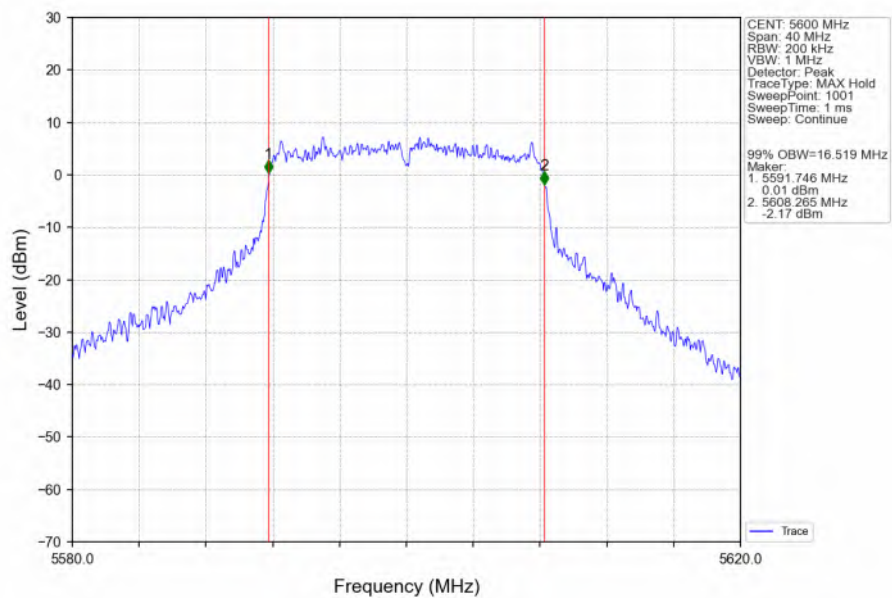
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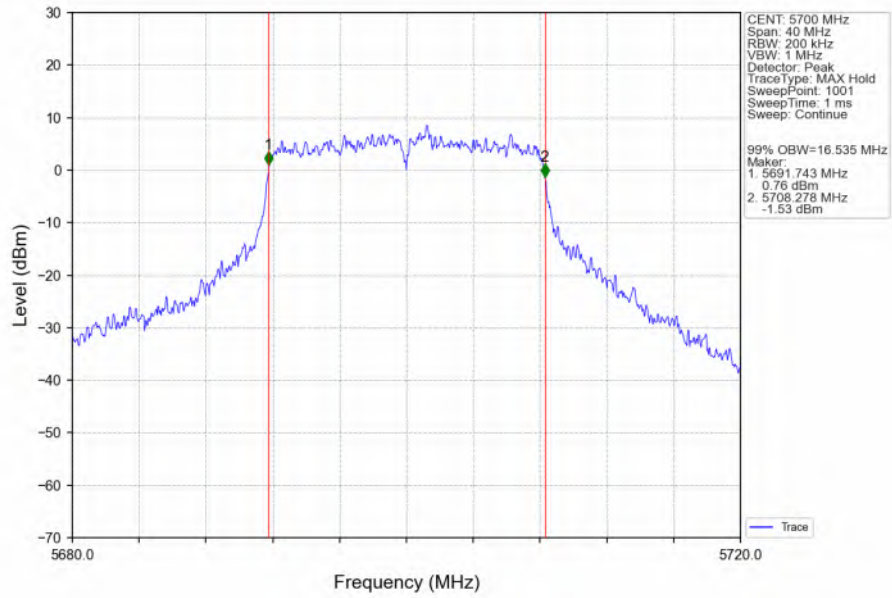
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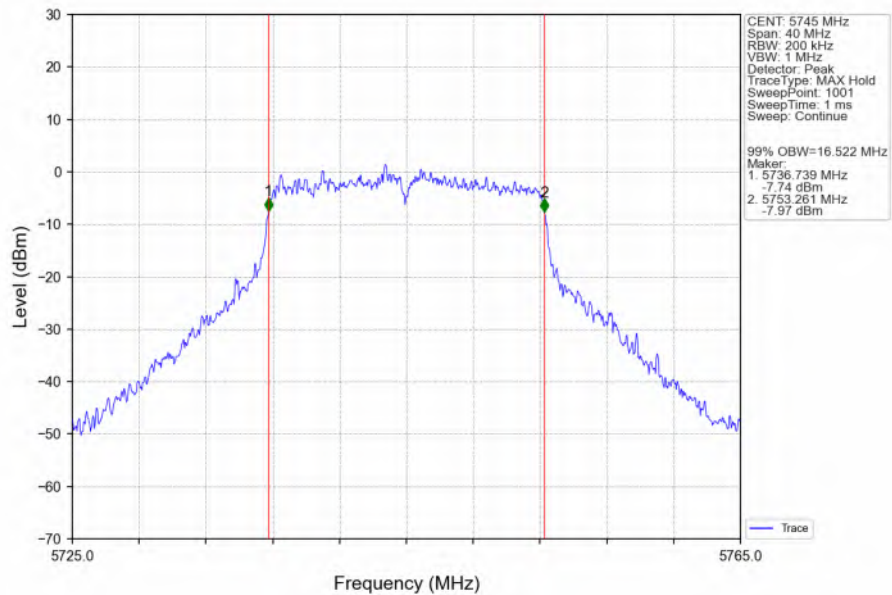
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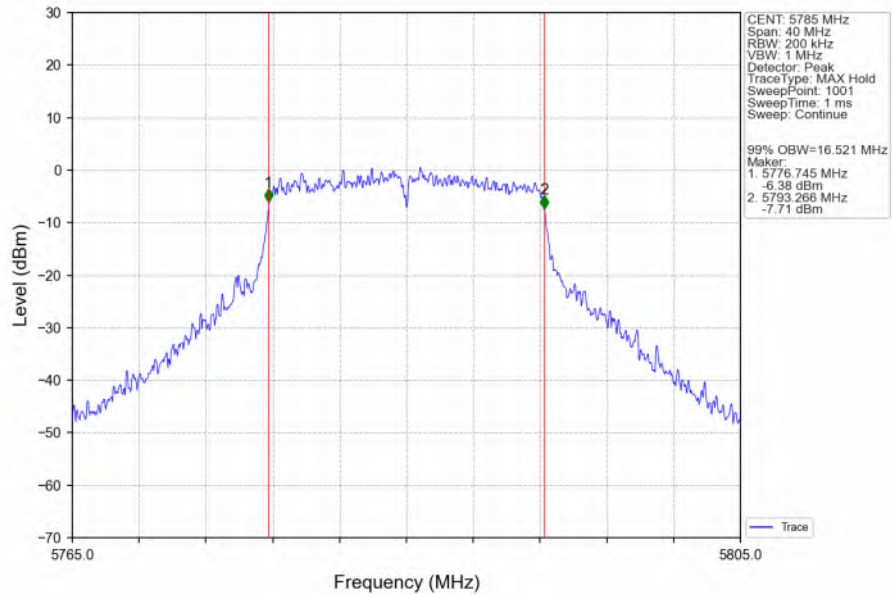
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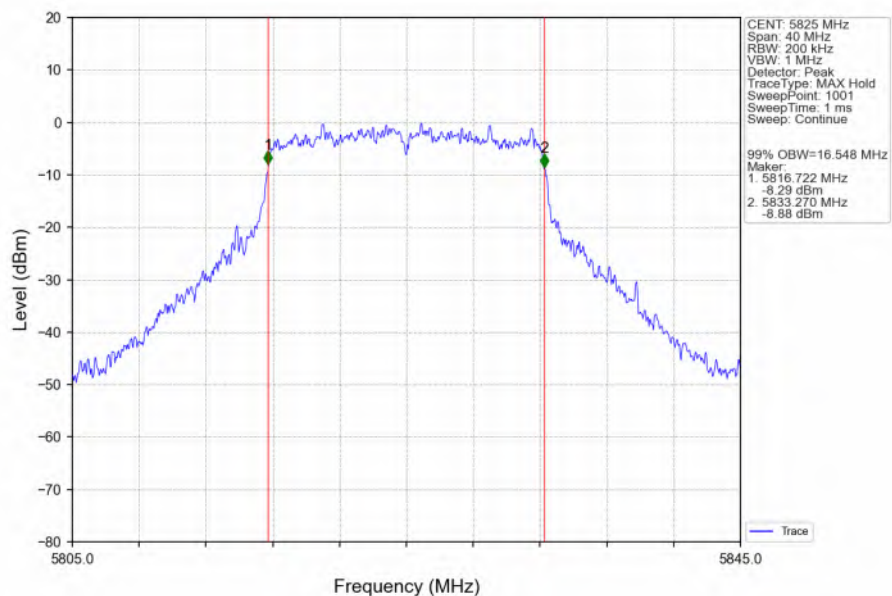
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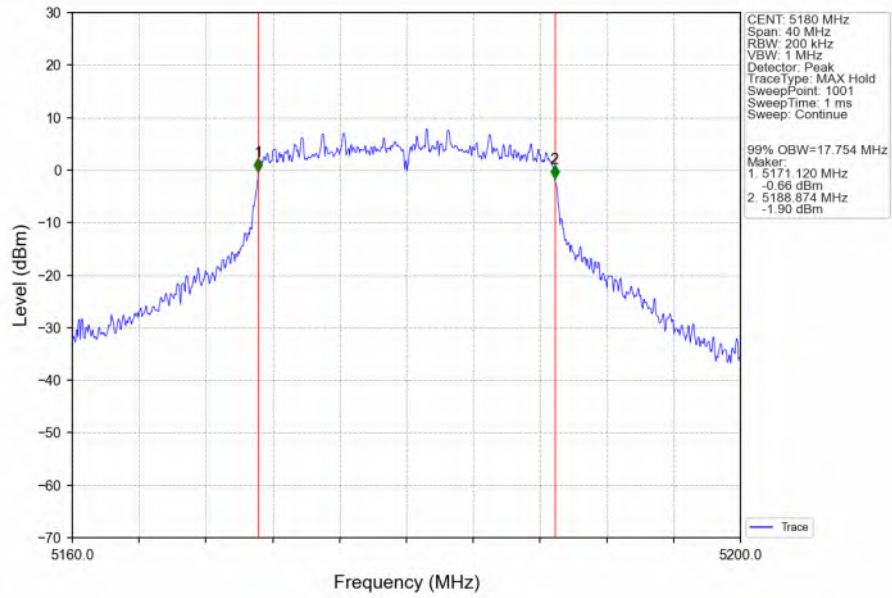
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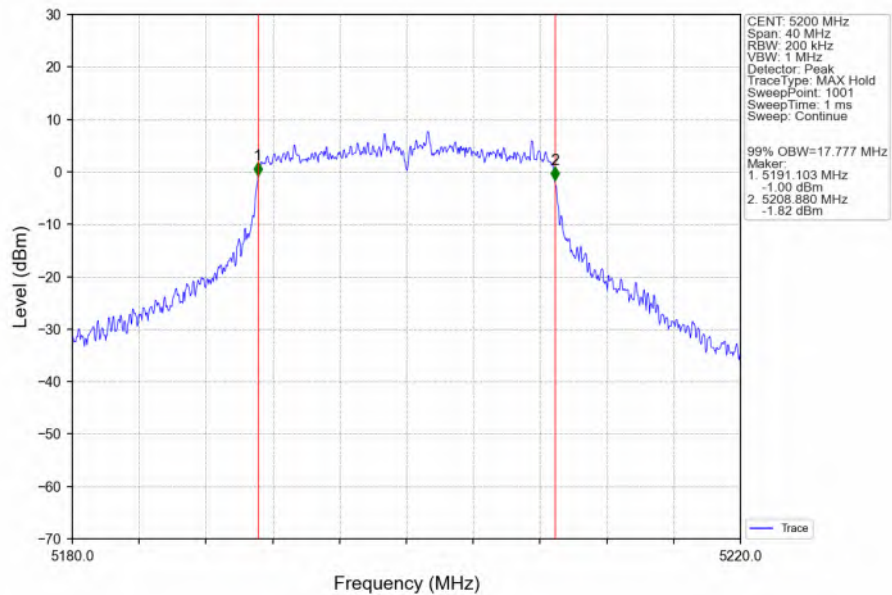
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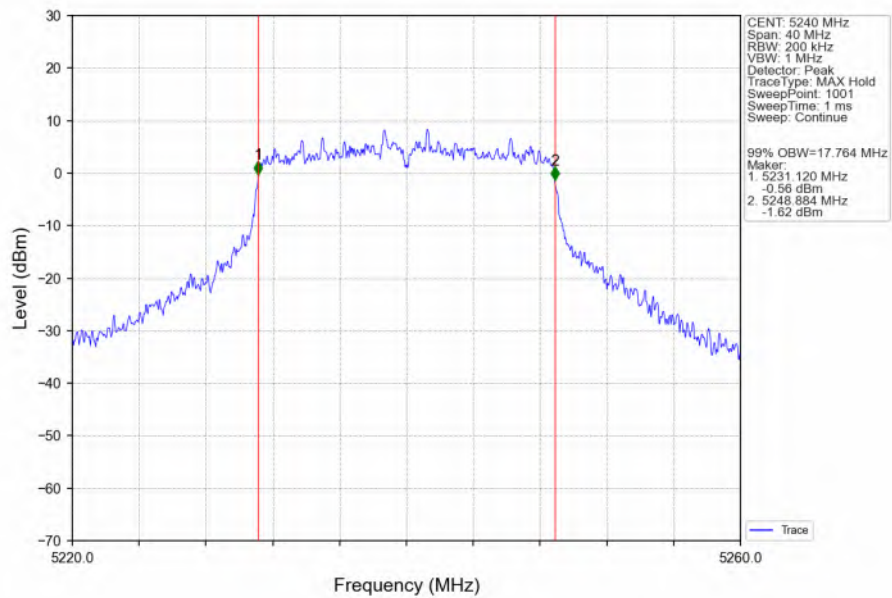
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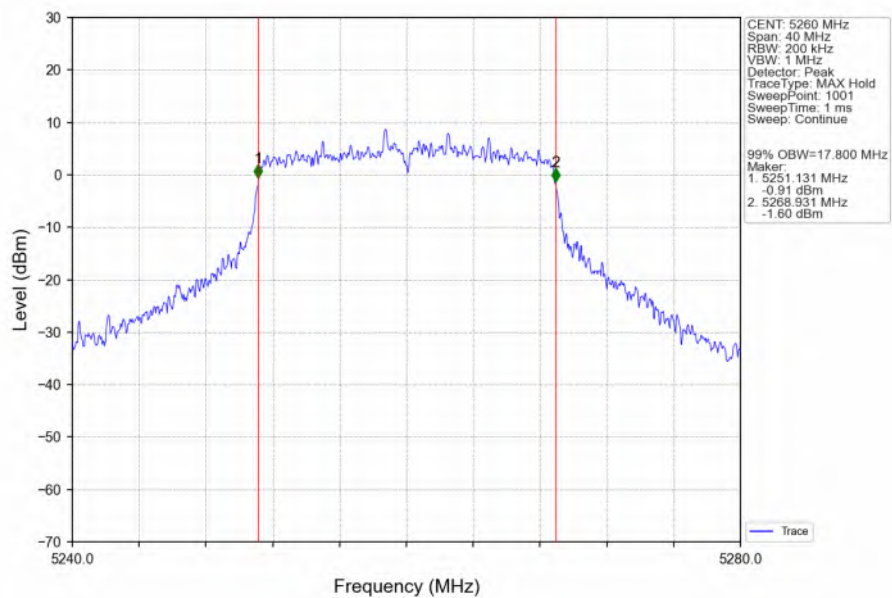
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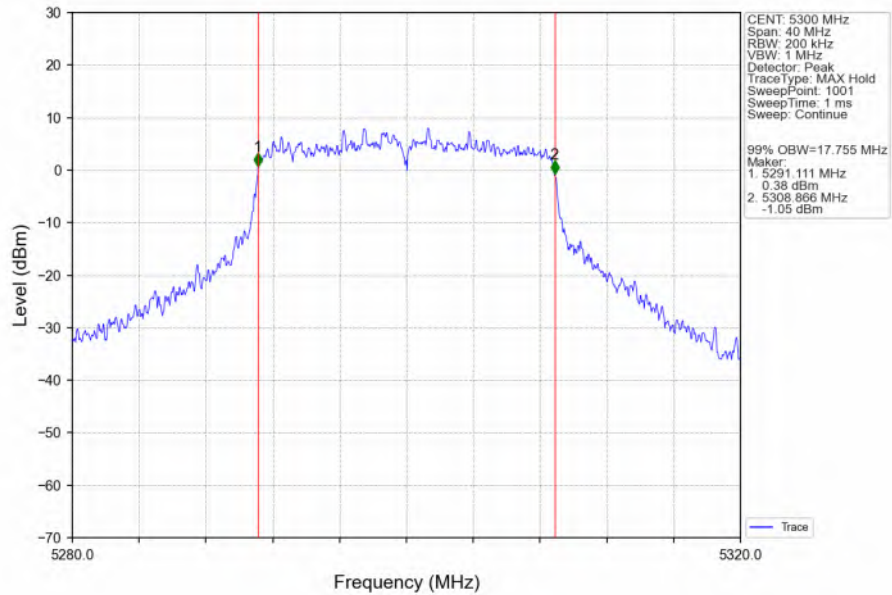
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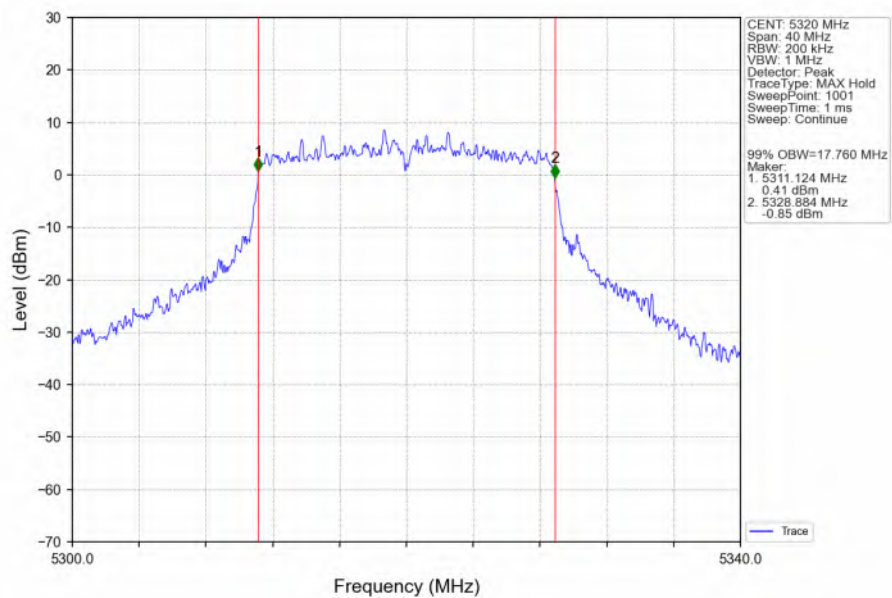
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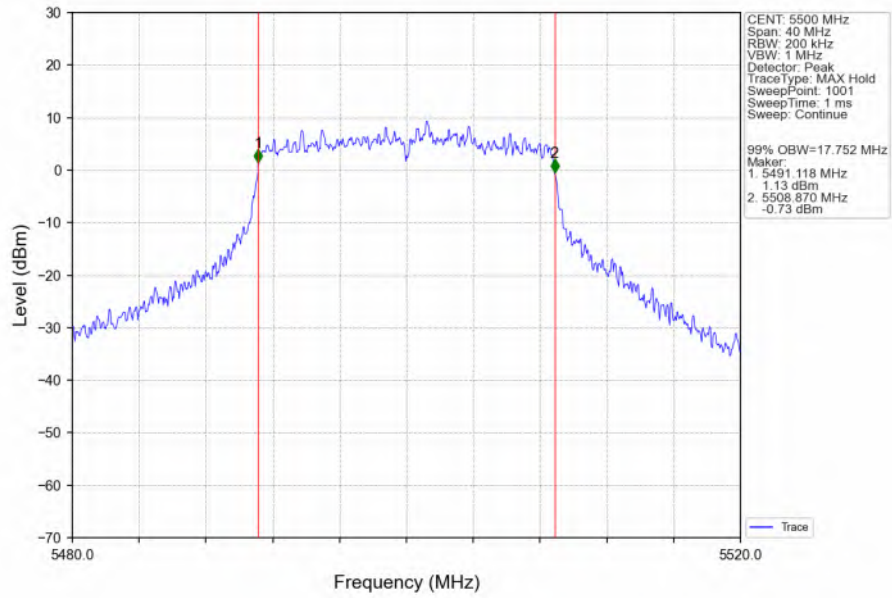
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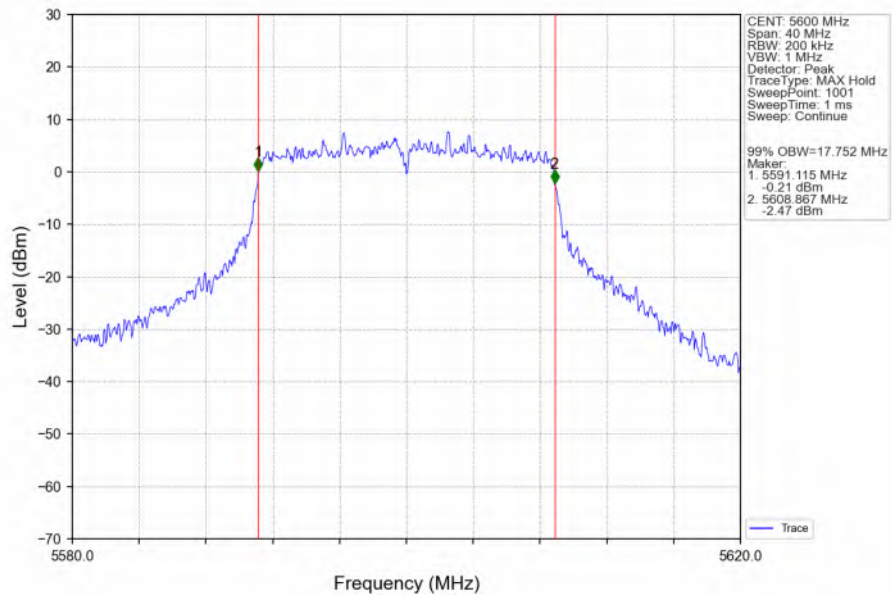
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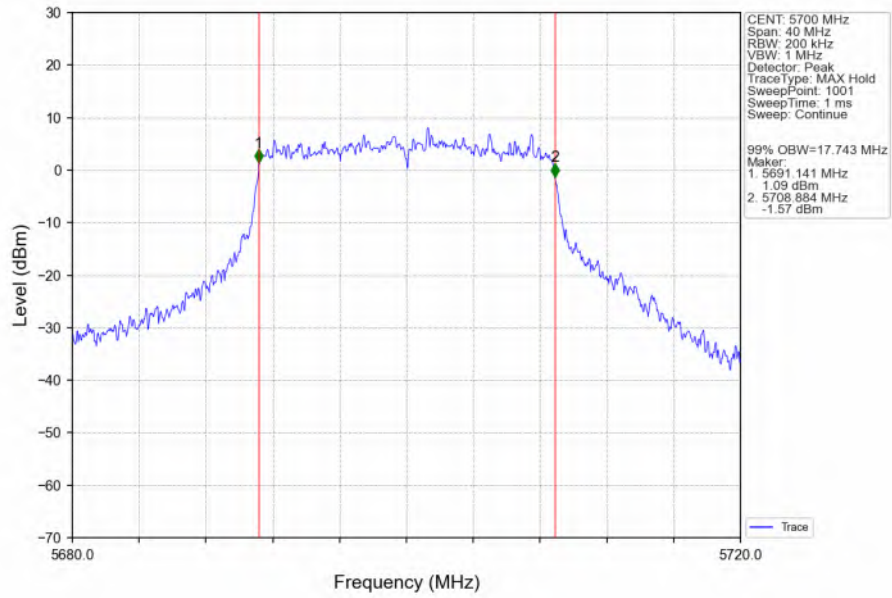
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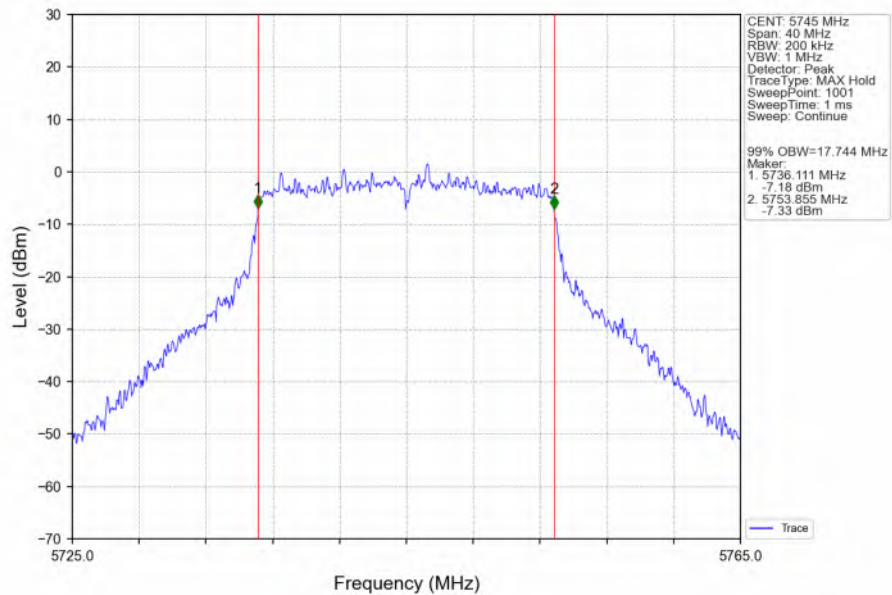
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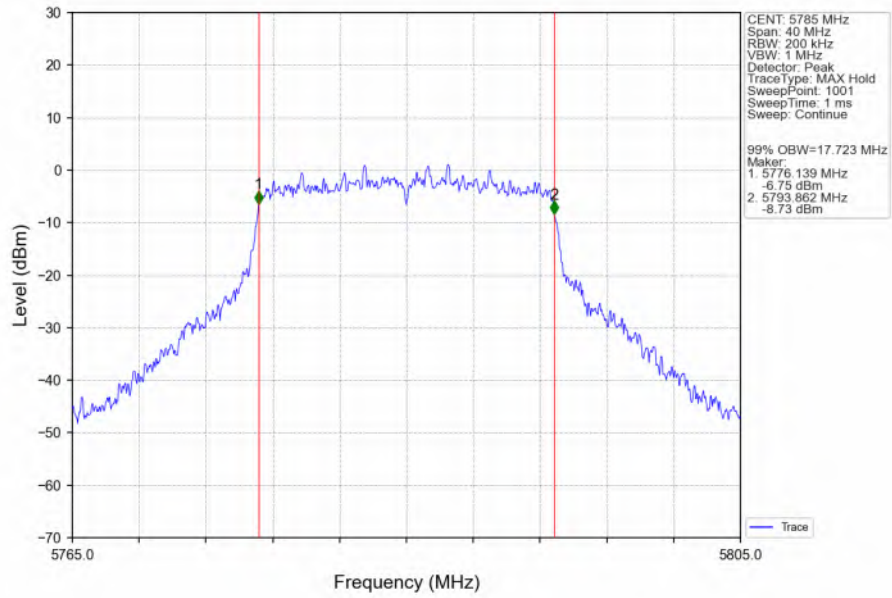
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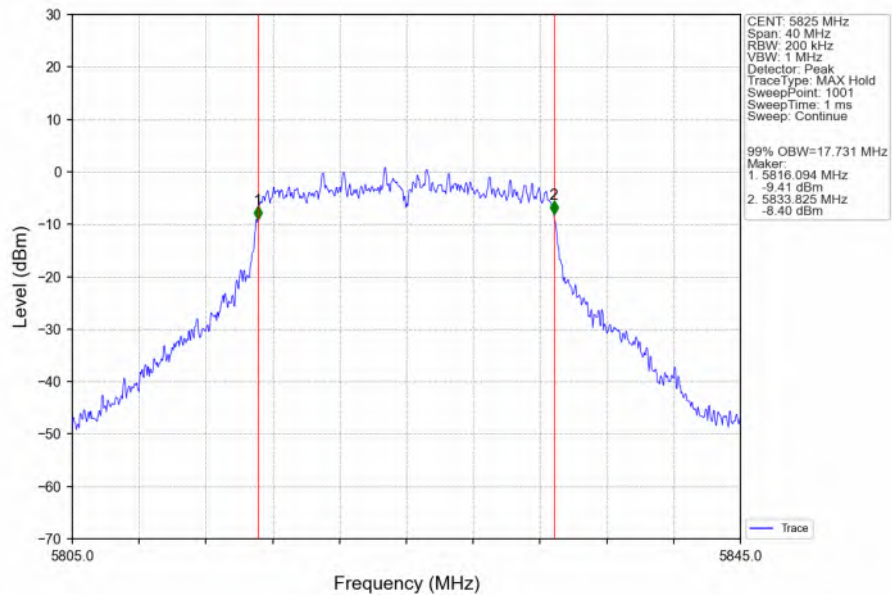
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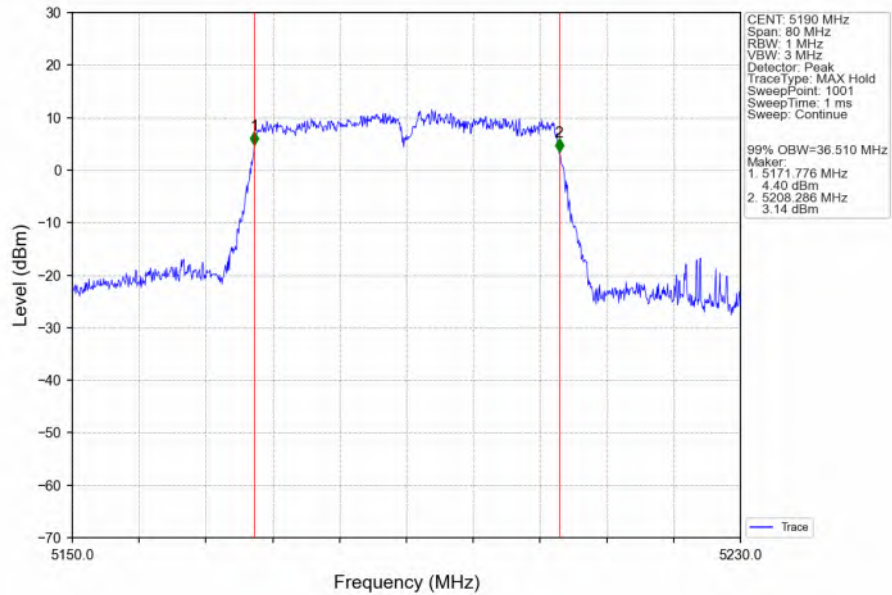
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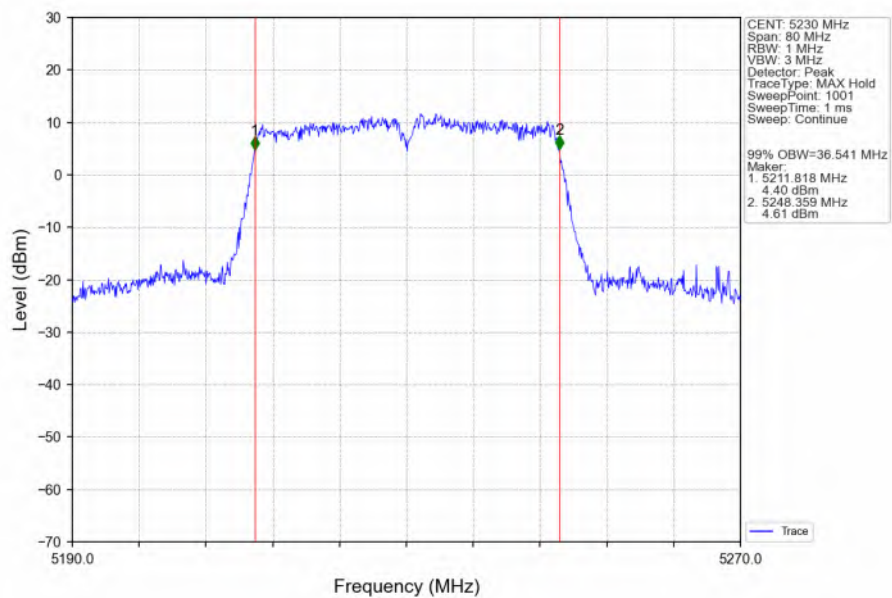
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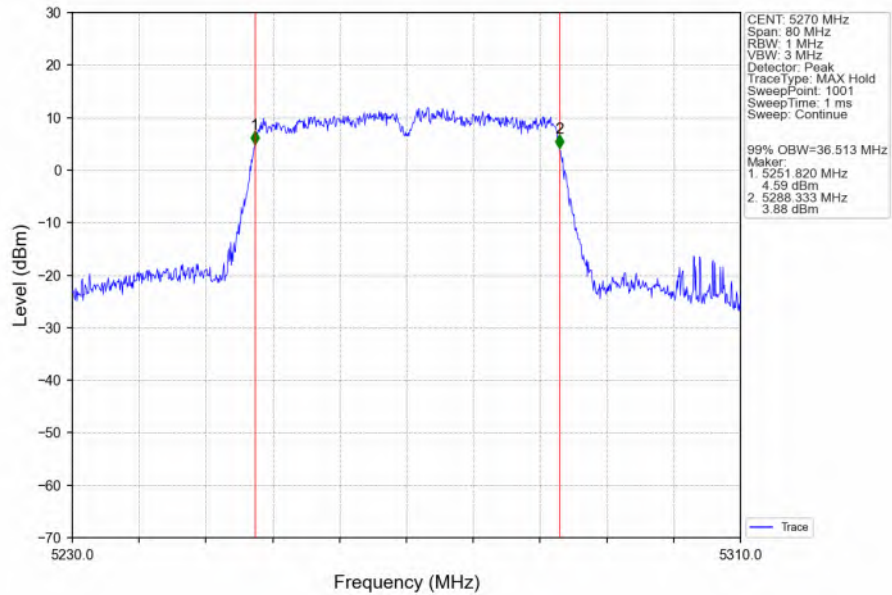
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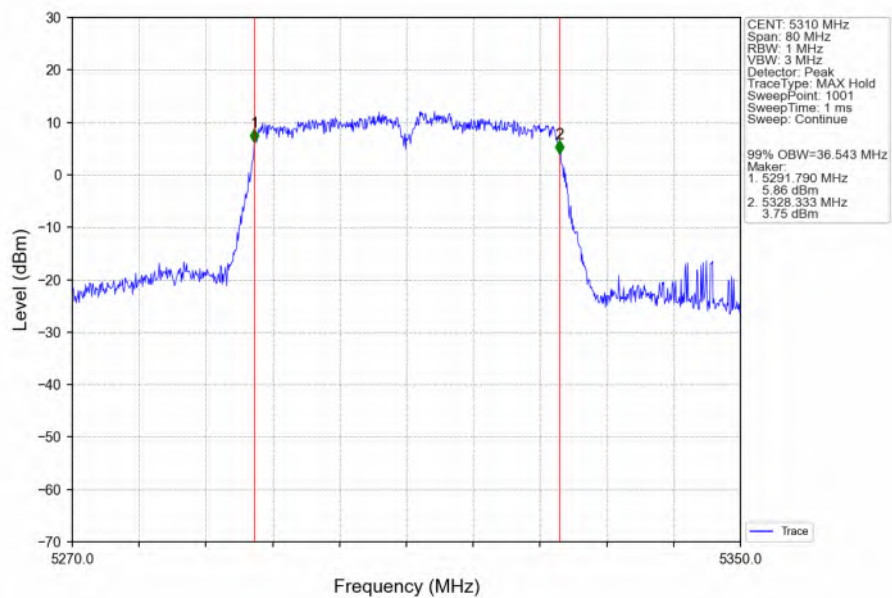
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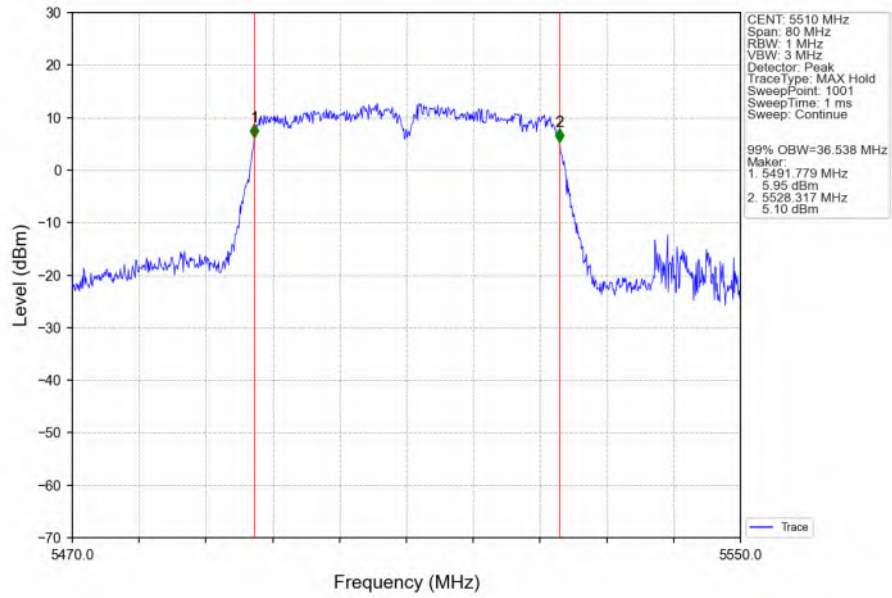
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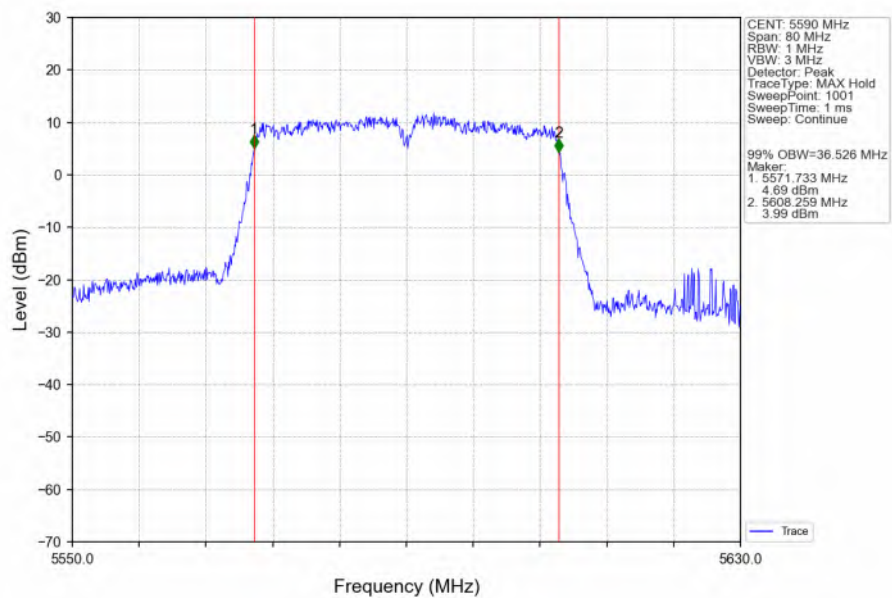
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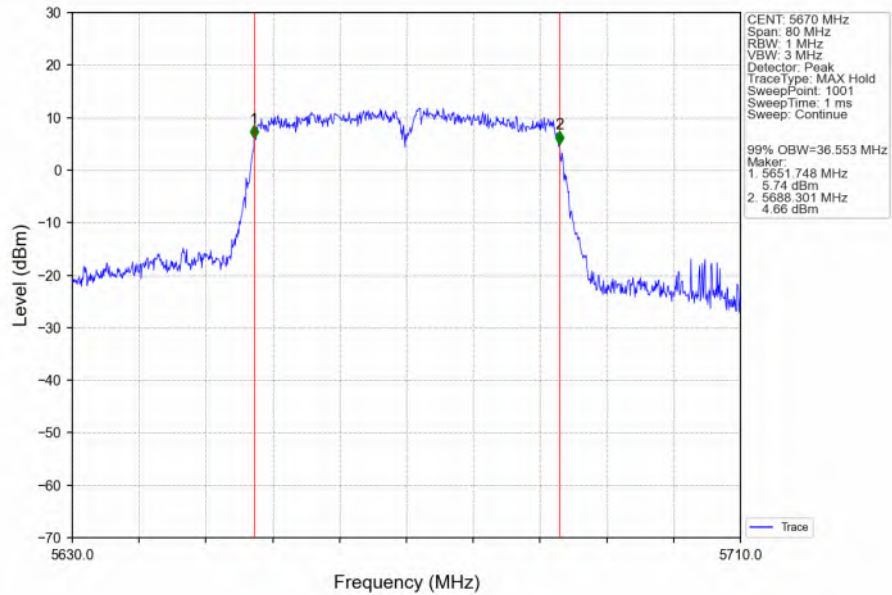
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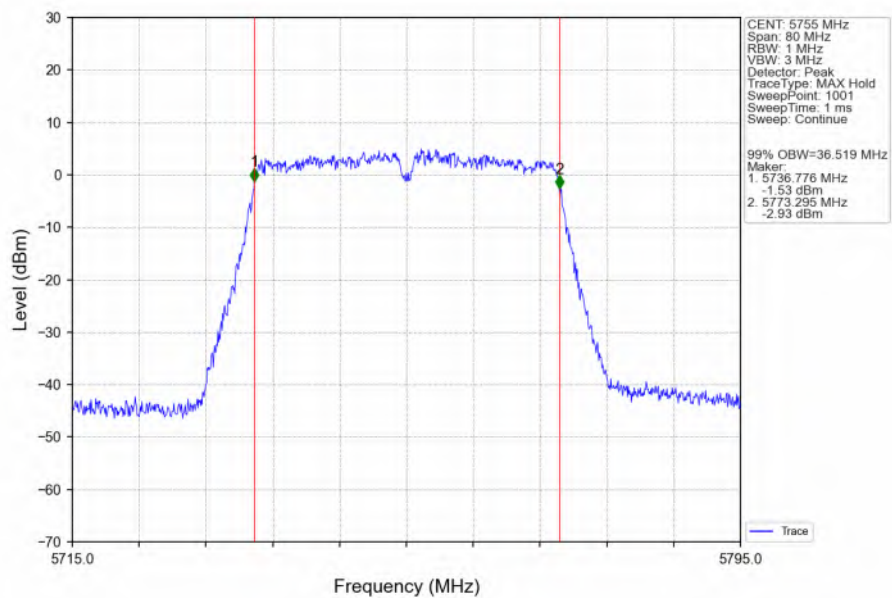
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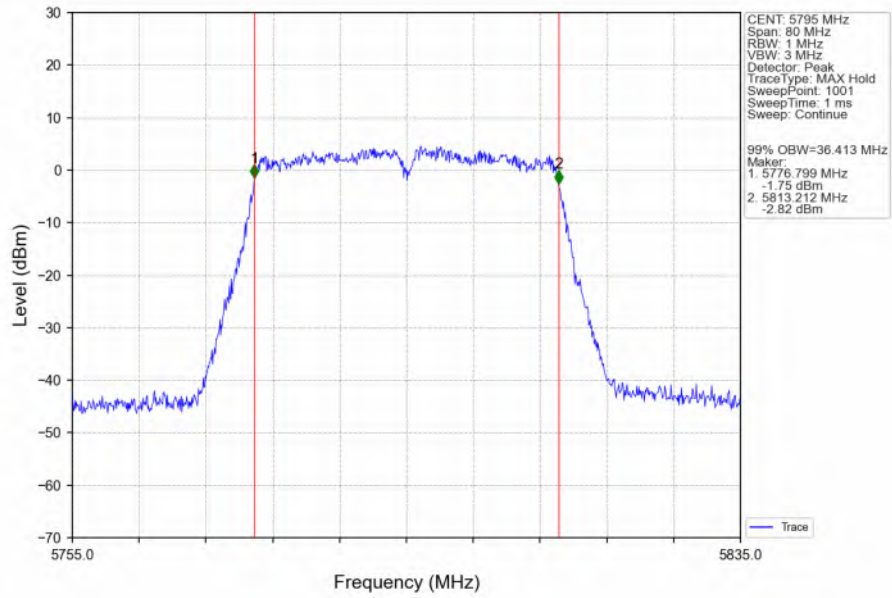
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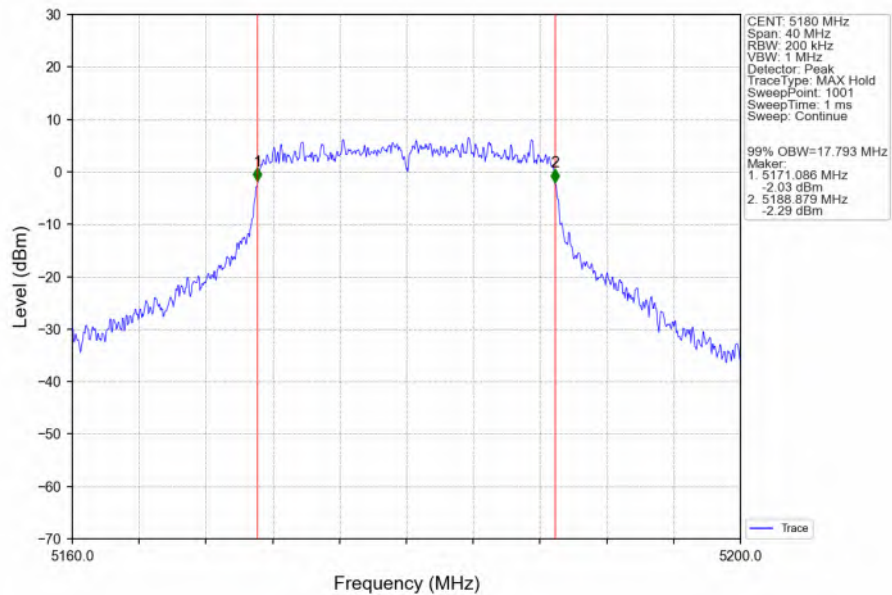
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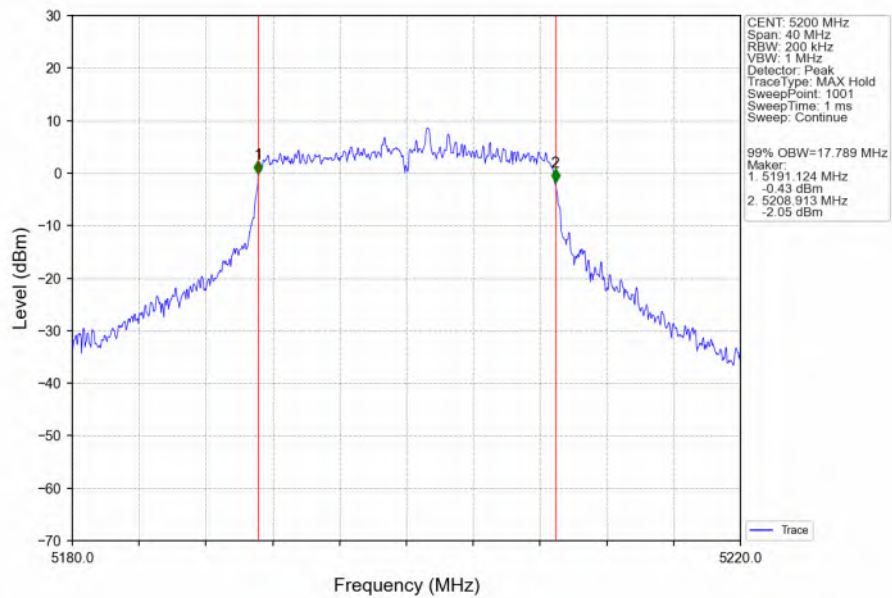
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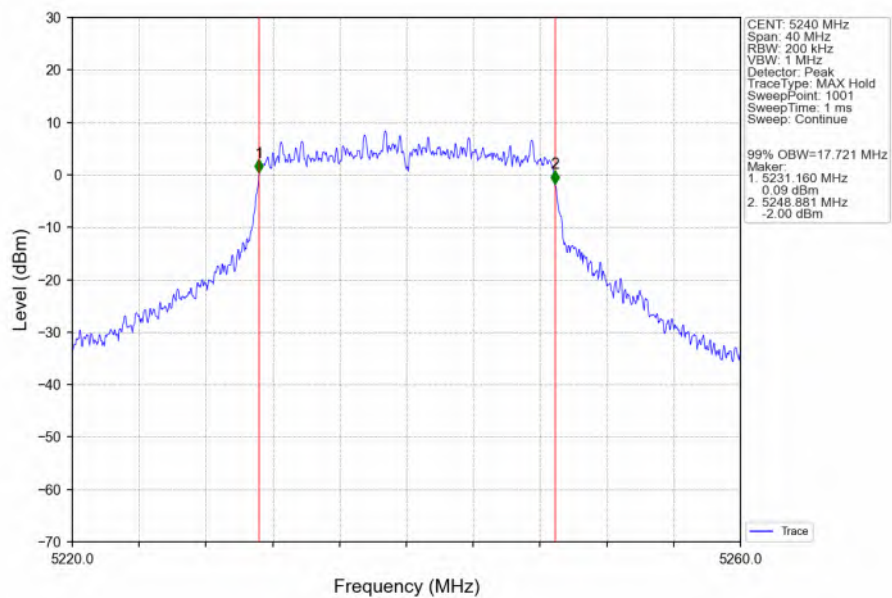
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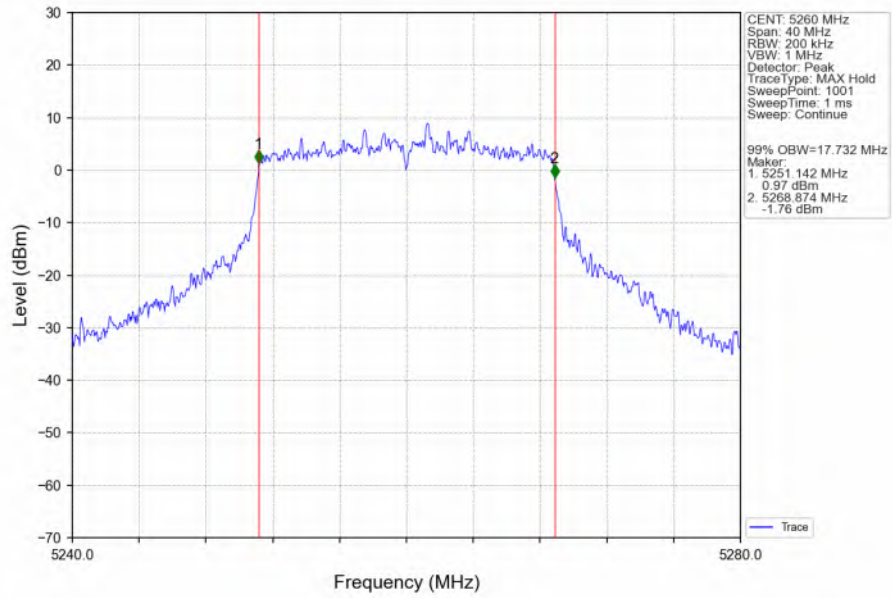
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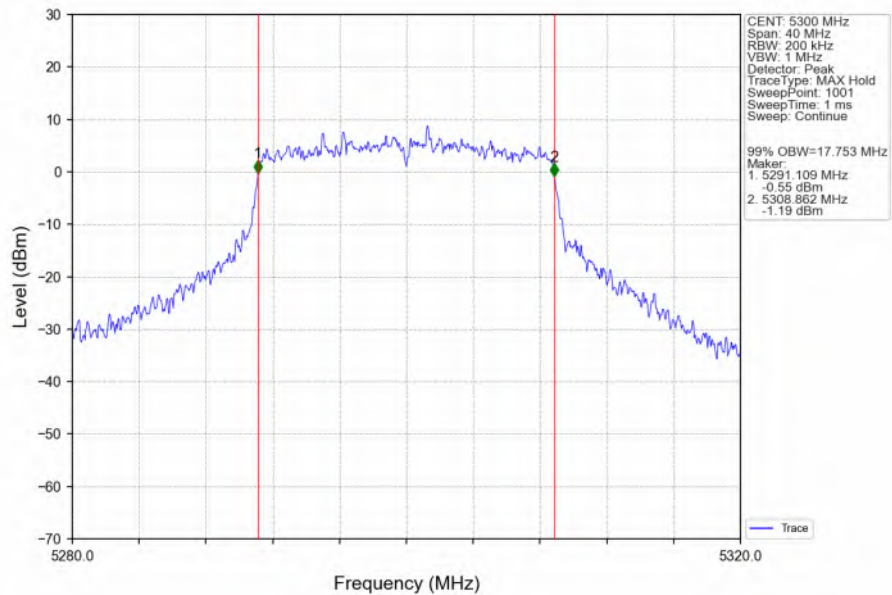
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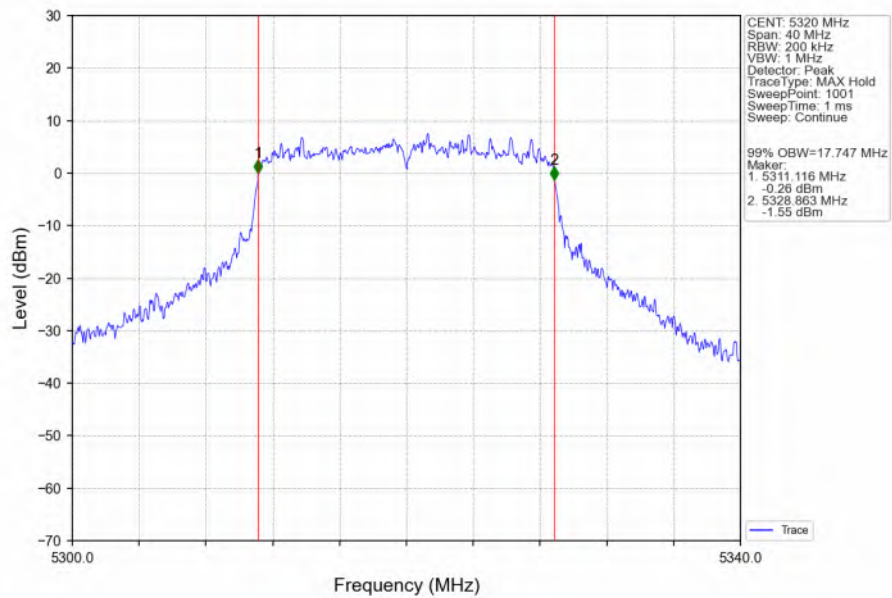
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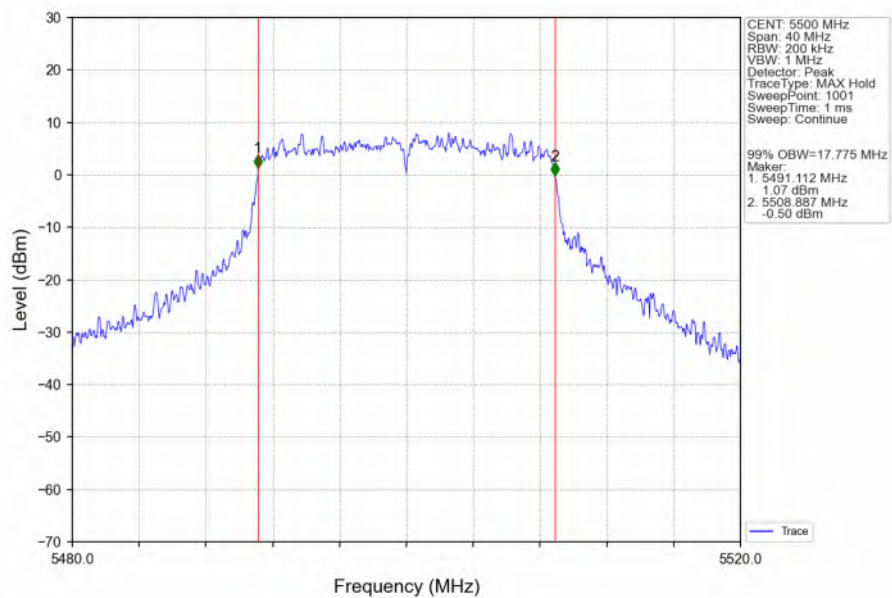
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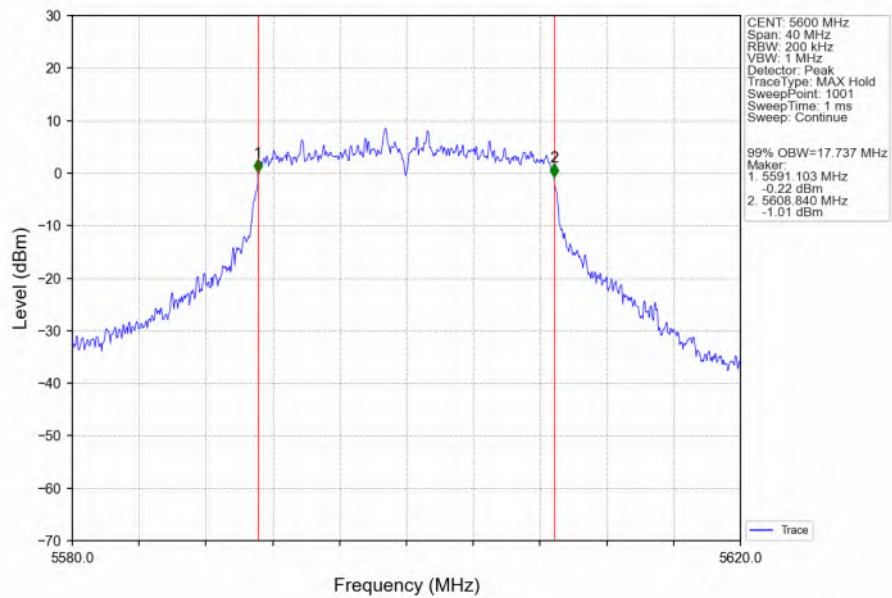
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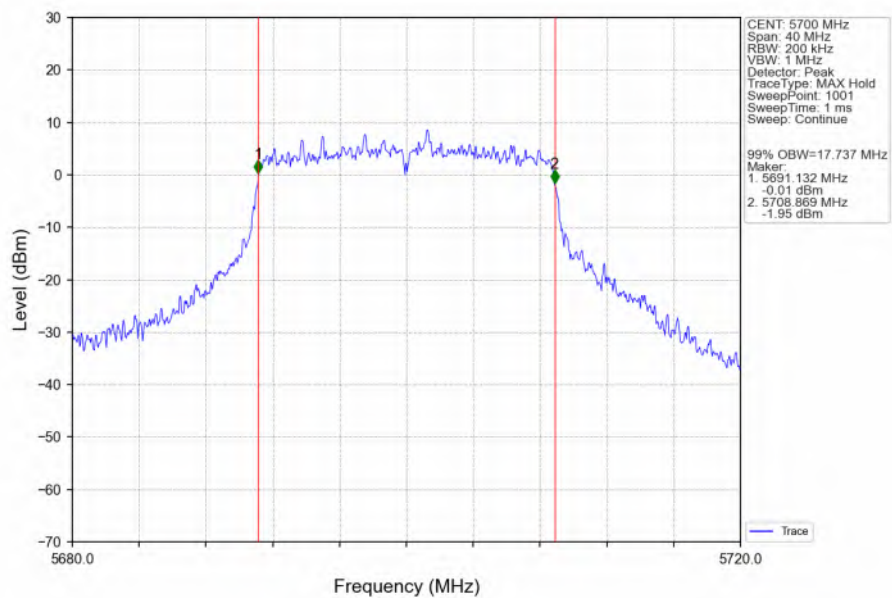
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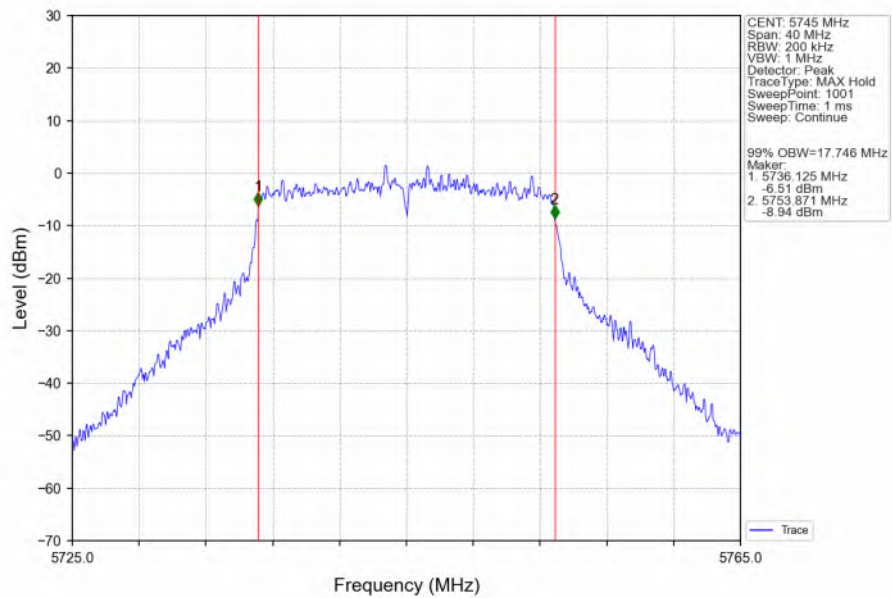
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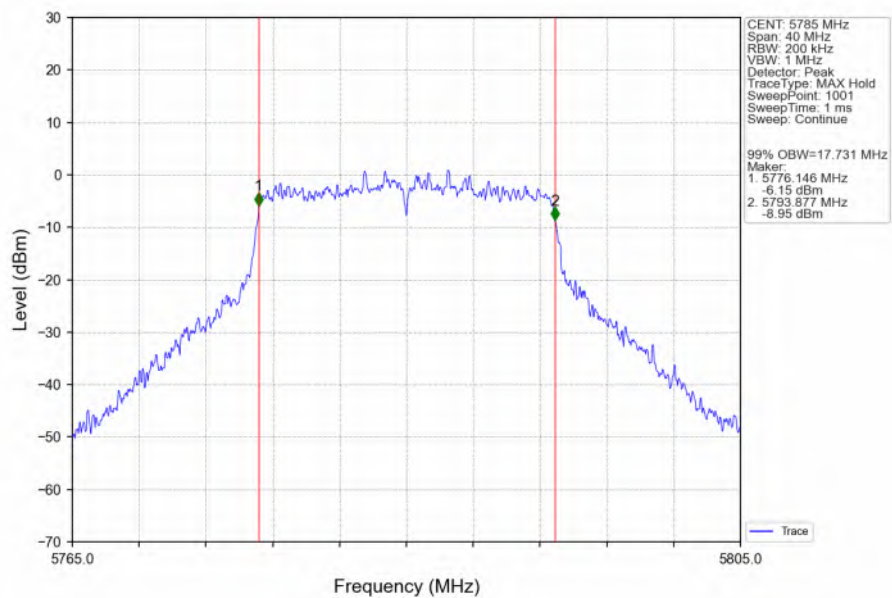
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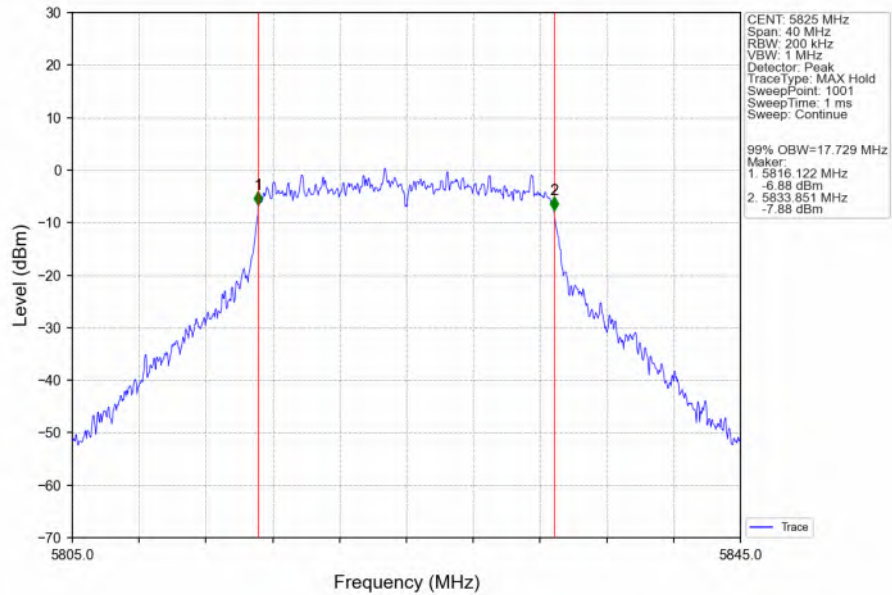
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



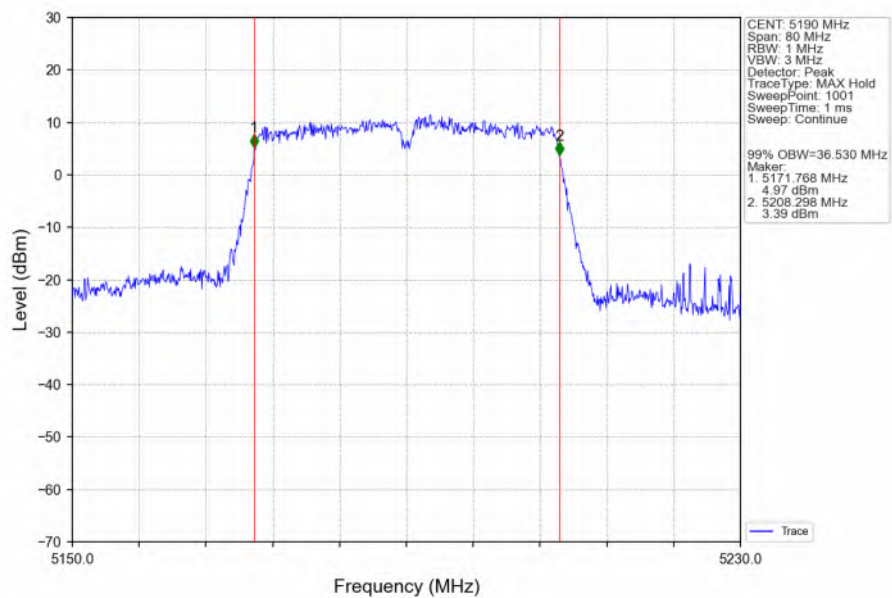
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



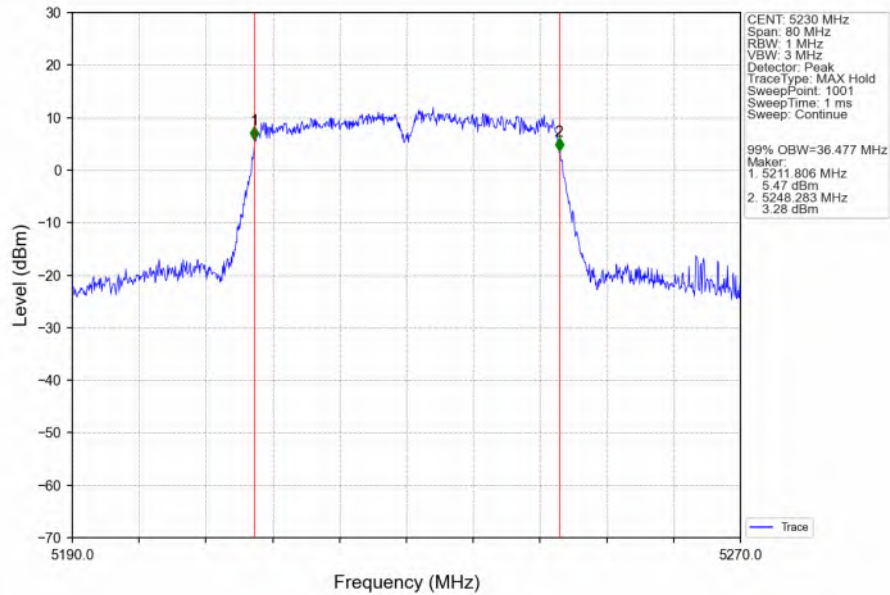
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



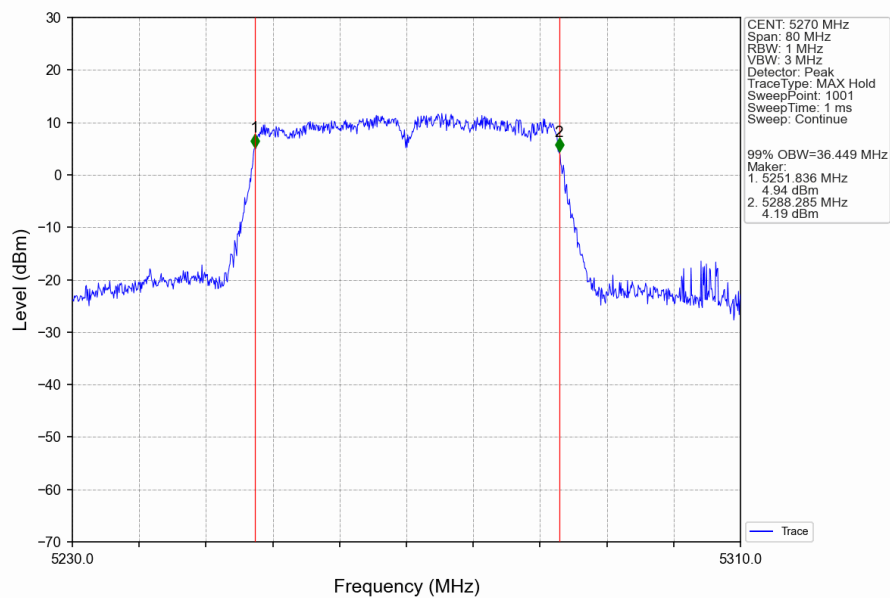
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



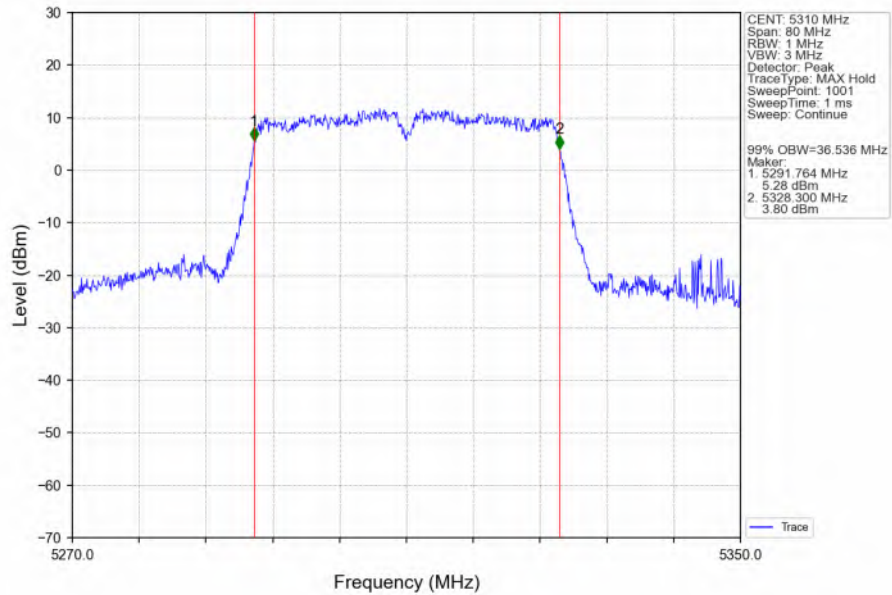
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV

