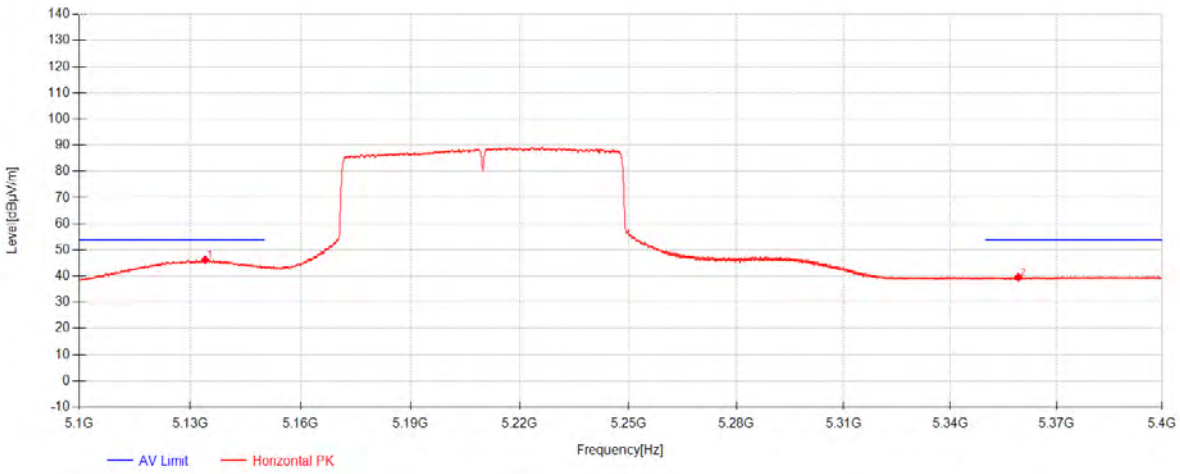
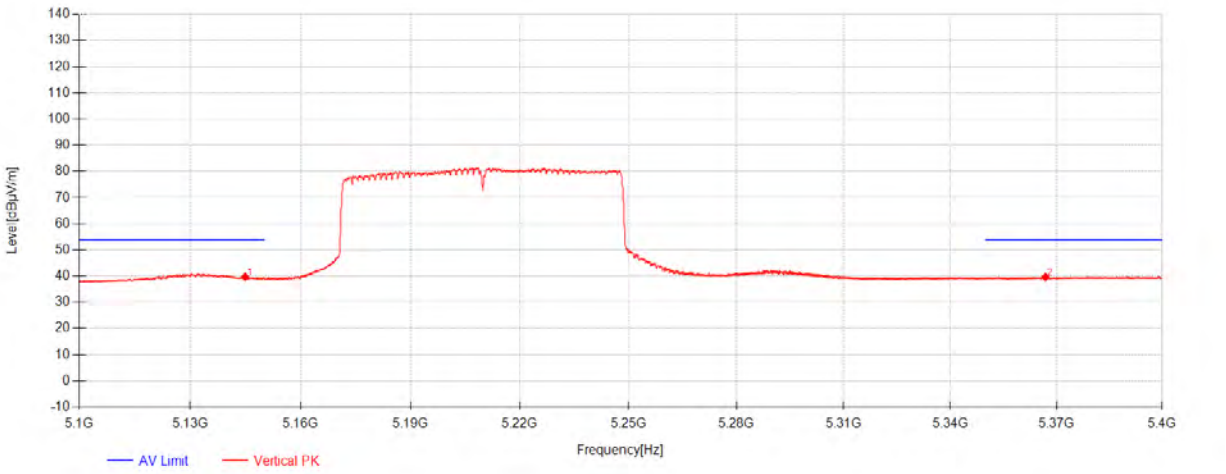
802.11ac80_Channel 42



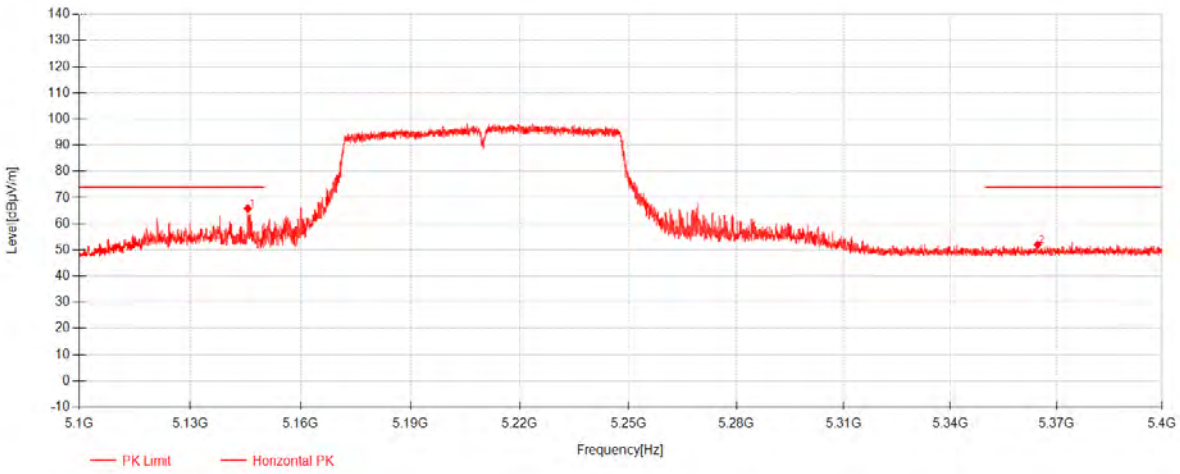
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5134.08	33.82	31.64	-19.18	46.28	54.00	7.72	Horizontal
2	5359.19	26.43	32.05	-18.92	39.55	54.00	14.45	Horizontal

802.11ac80_Channel 42



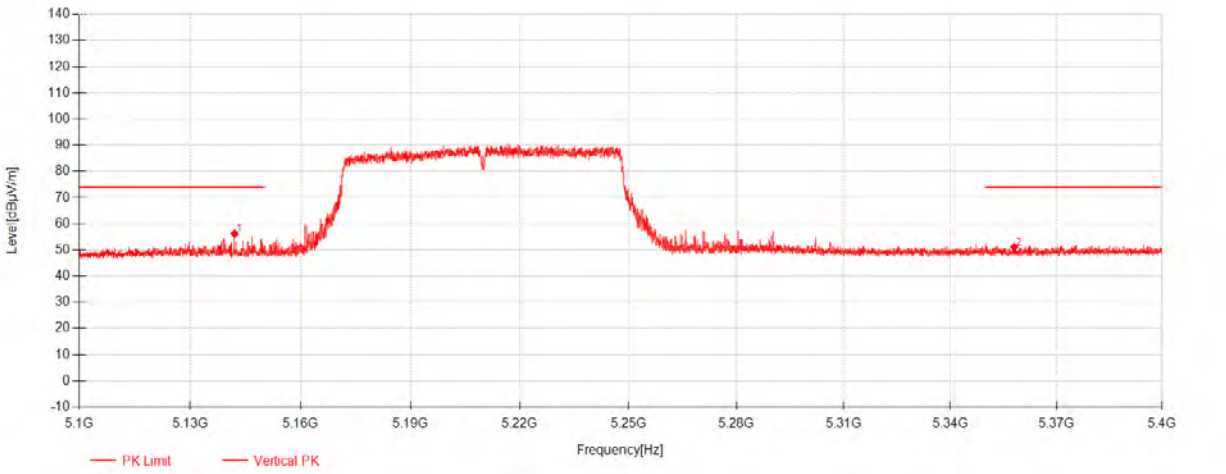
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5144.9067	27.20	31.66	-19.15	39.71	54.00	14.29	Vertical
2	5366.8725	26.52	32.06	-18.94	39.64	54.00	14.36	Vertical

802.11ac80_Channel 42



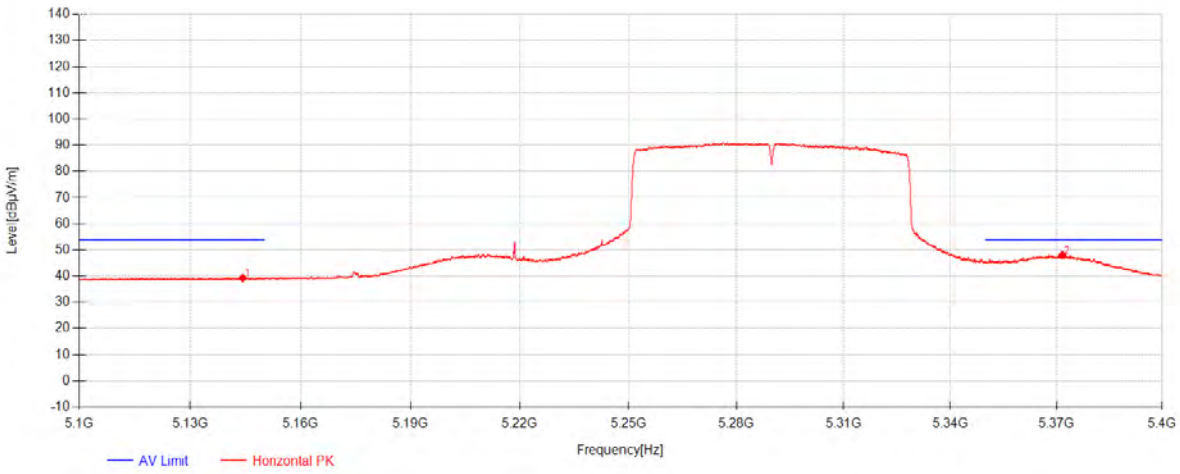
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5145.62	53.35	31.66	-19.15	65.86	74.00	8.14	Horizontal
2	5364.65	38.90	32.06	-18.94	52.02	74.00	21.98	Horizontal

802.11ac80_Channel 42



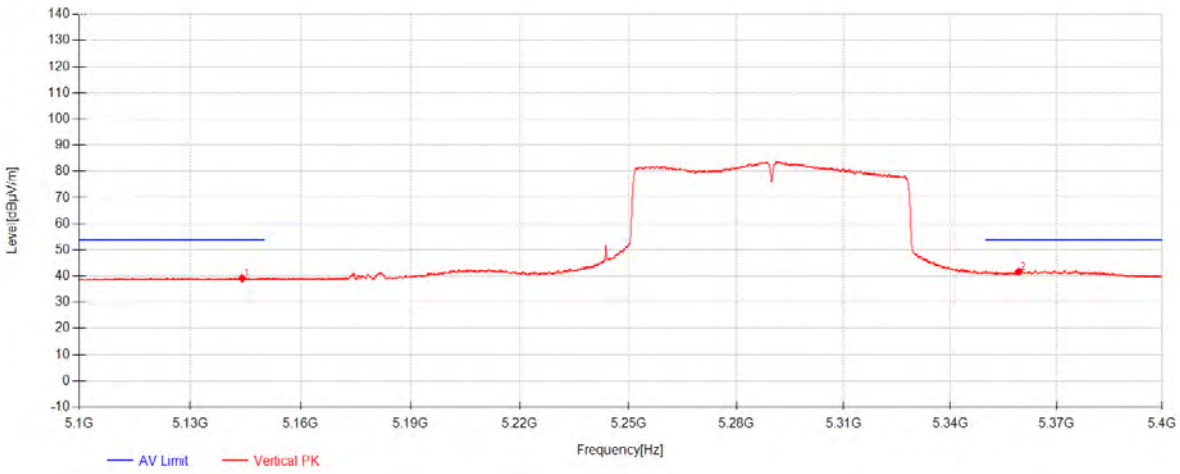
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5142.04	43.72	31.66	-19.16	56.22	74.00	17.78	Vertical
2	5358.0525	38.02	32.04	-18.92	51.15	74.00	22.85	Vertical

802.11ac80_Channel 58



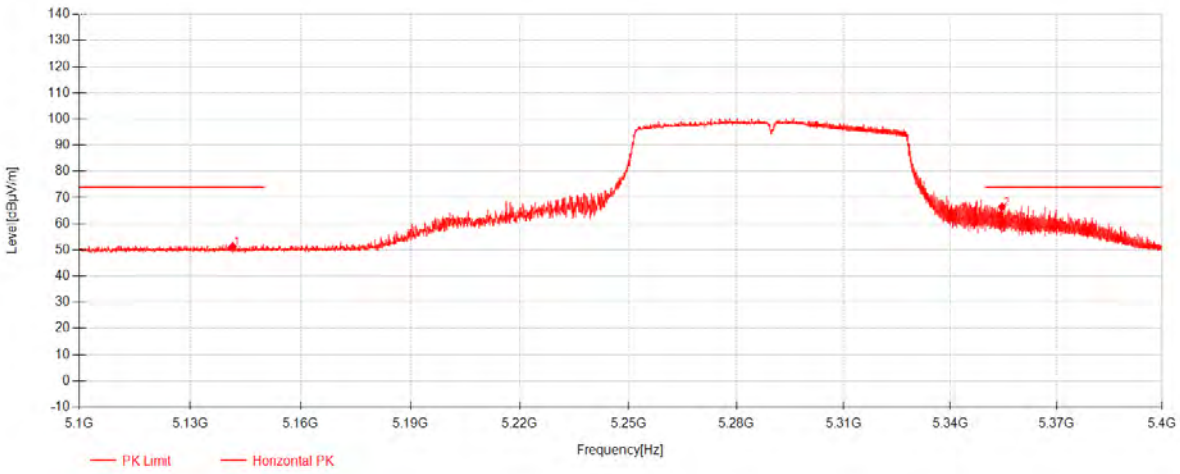
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5144.25	26.78	31.66	-19.15	39.29	54.00	14.71	Horizontal
2	5371.65	34.94	32.07	-18.95	48.06	54.00	5.94	Horizontal

802.11ac80_Channel 58



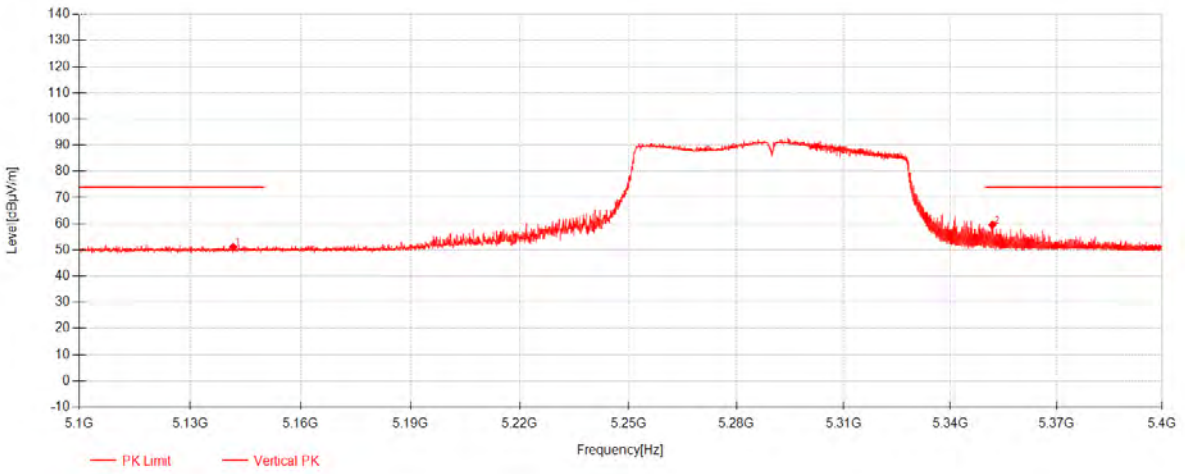
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5144.1	26.66	31.66	-19.15	39.17	54.00	14.83	Vertical
2	5359.35	28.68	32.05	-18.92	41.80	54.00	12.20	Vertical

802.11ac80_Channel 58



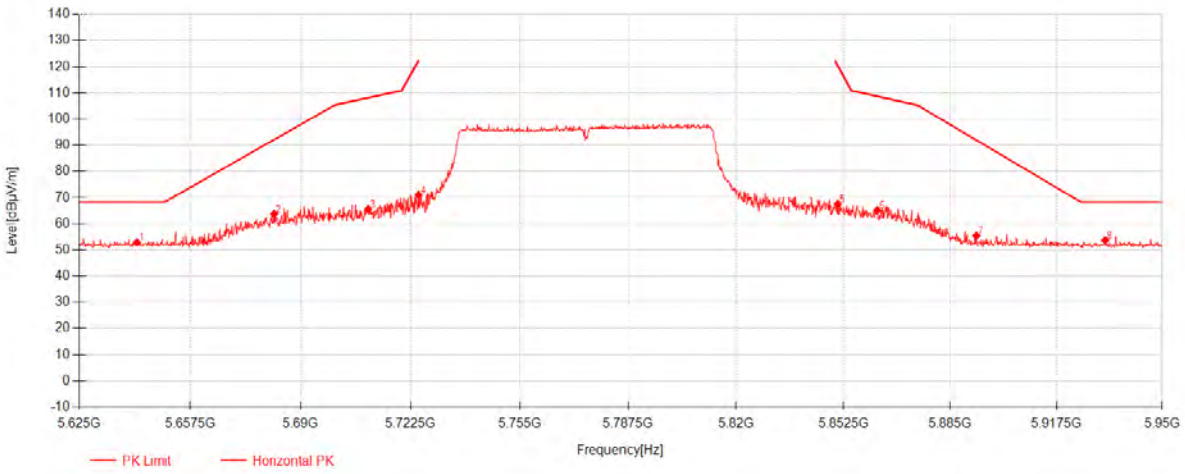
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5141.5333	38.92	31.65	-19.16	51.41	74.00	22.59	Horizontal
2	5354.5625	53.31	32.04	-18.91	66.44	74.00	7.56	Horizontal

802.11ac80_Channel 58



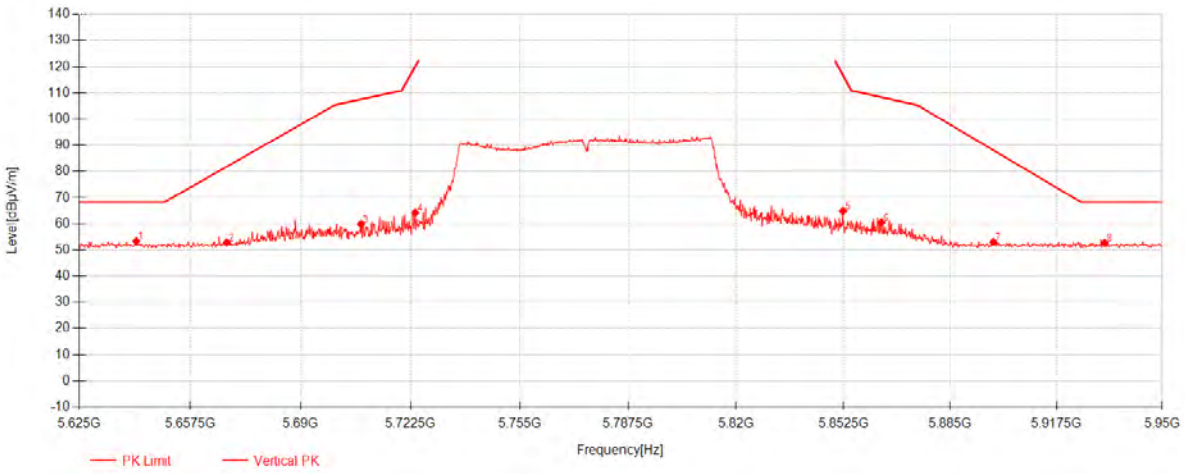
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5141.6667	38.66	31.66	-19.16	51.16	74.00	22.84	Vertical
2	5351.85	46.43	32.03	-18.90	59.56	74.00	14.44	Vertical

802.11ac80_Channel 155



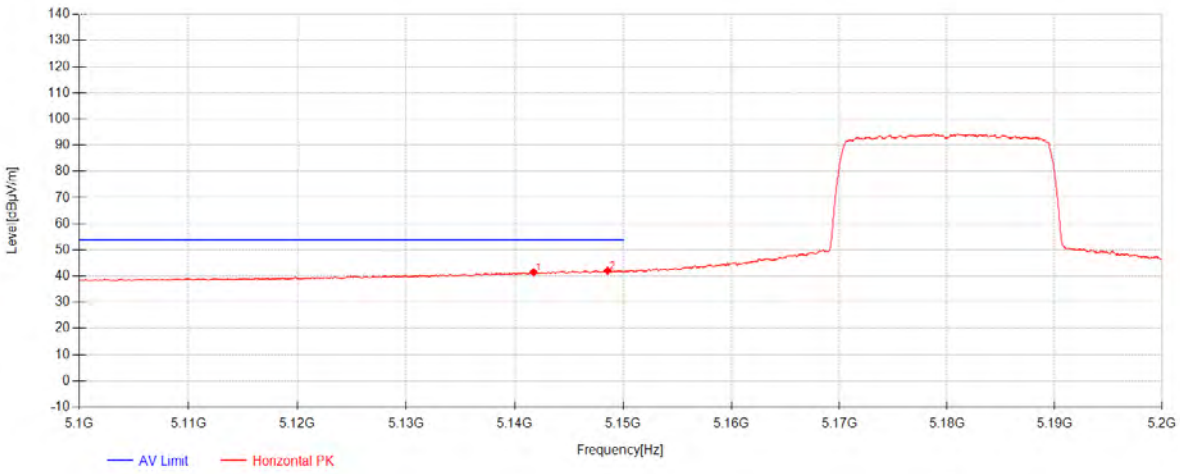
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5641.9	39.32	32.33	-18.72	52.92	68.30	15.38	Horizontal
2	5682.2	50.18	32.34	-18.73	63.79	92.17	28.38	Horizontal
3	5709.9875	51.98	32.34	-18.76	65.56	108.10	42.54	Horizontal
4	5724.9375	57.47	32.34	-18.80	71.01	122.16	51.15	Horizontal
5	5850.7125	54.00	32.37	-18.88	67.49	120.67	53.18	Horizontal
6	5862.7375	51.68	32.37	-18.85	65.20	108.73	43.53	Horizontal
7	5892.9625	41.85	32.38	-18.76	55.47	91.97	36.50	Horizontal
8	5932.45	40.15	32.39	-18.81	53.73	68.30	14.57	Horizontal

802.11ac80_Channel 155



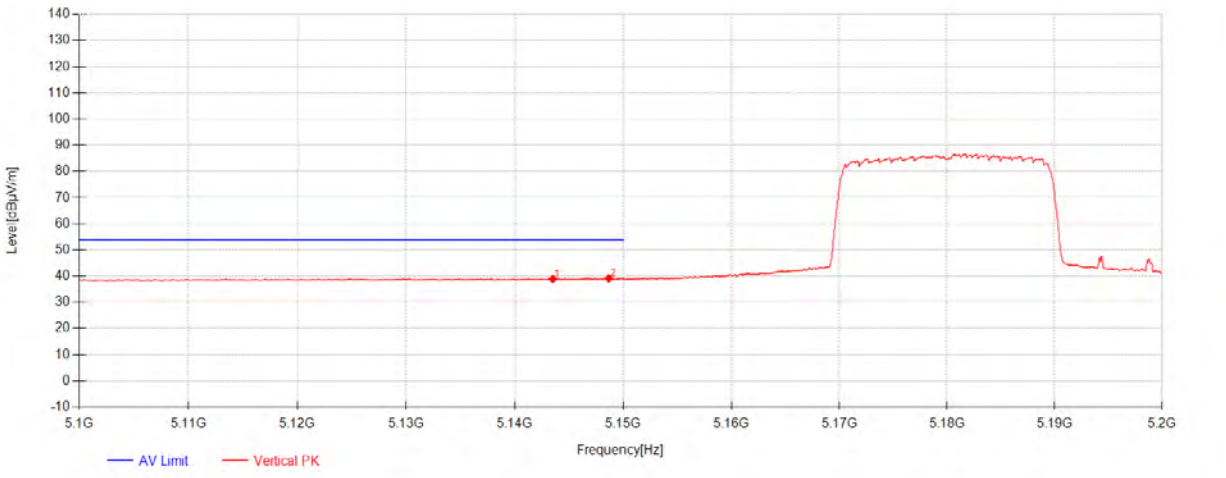
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5641.7375	39.76	32.33	-18.72	53.36	68.30	14.94	Vertical
2	5668.225	39.26	32.33	-18.73	52.87	81.82	28.95	Vertical
3	5707.875	46.25	32.34	-18.75	59.84	107.51	47.67	Vertical
4	5723.9625	50.79	32.34	-18.80	64.33	119.94	55.61	Vertical
5	5852.3375	51.42	32.37	-18.88	64.91	116.97	52.06	Vertical
6	5864.0375	46.94	32.37	-18.84	60.47	108.37	47.90	Vertical
7	5898.1625	39.48	32.38	-18.75	53.11	88.12	35.01	Vertical
8	5932.2875	39.20	32.39	-18.81	52.78	68.30	15.52	Vertical

802.11ax20_Channel 36



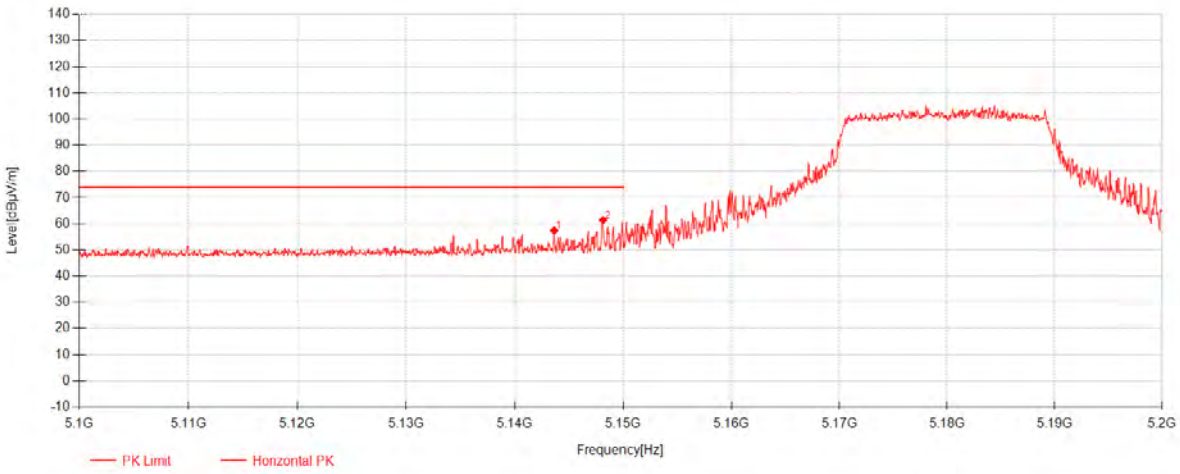
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5141.7333	28.98	31.66	-19.16	41.48	54.00	12.52	Horizontal
2	5148.5667	29.56	31.67	-19.14	42.08	54.00	11.92	Horizontal

802.11ax20_Channel 36



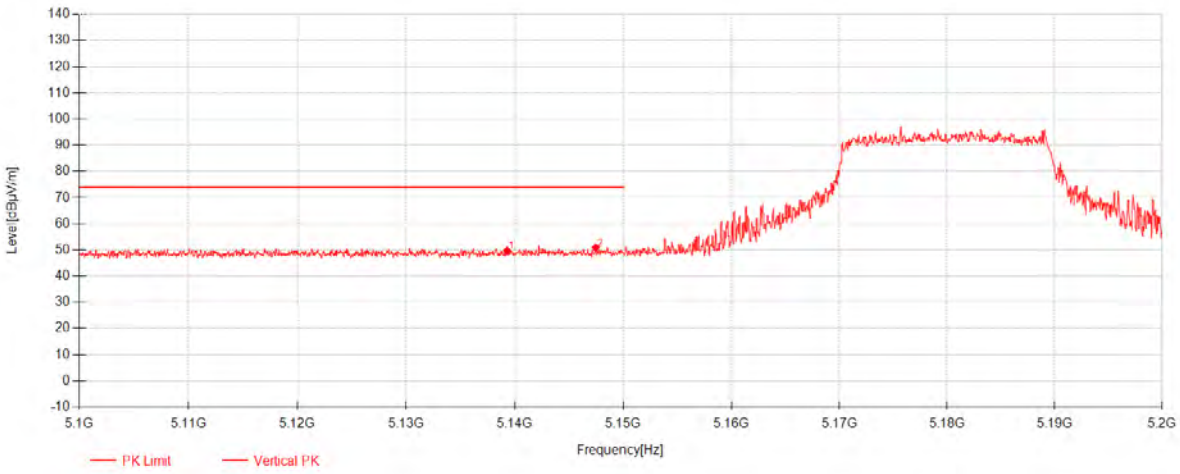
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5143.5	26.42	31.66	-19.16	38.92	54.00	15.08	Vertical
2	5148.6667	26.64	31.67	-19.14	39.16	54.00	14.84	Vertical

802.11ax20_Channel 36



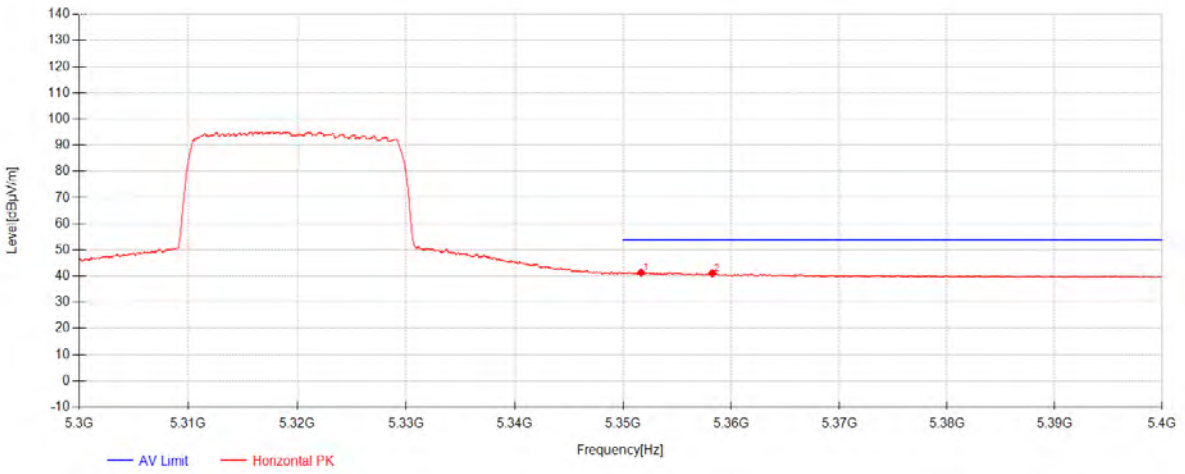
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5143.6333	44.91	31.66	-19.16	57.41	74.00	16.59	Horizontal
2	5148.1333	48.86	31.67	-19.14	61.38	74.00	12.62	Horizontal

802.11ax20_Channel 36



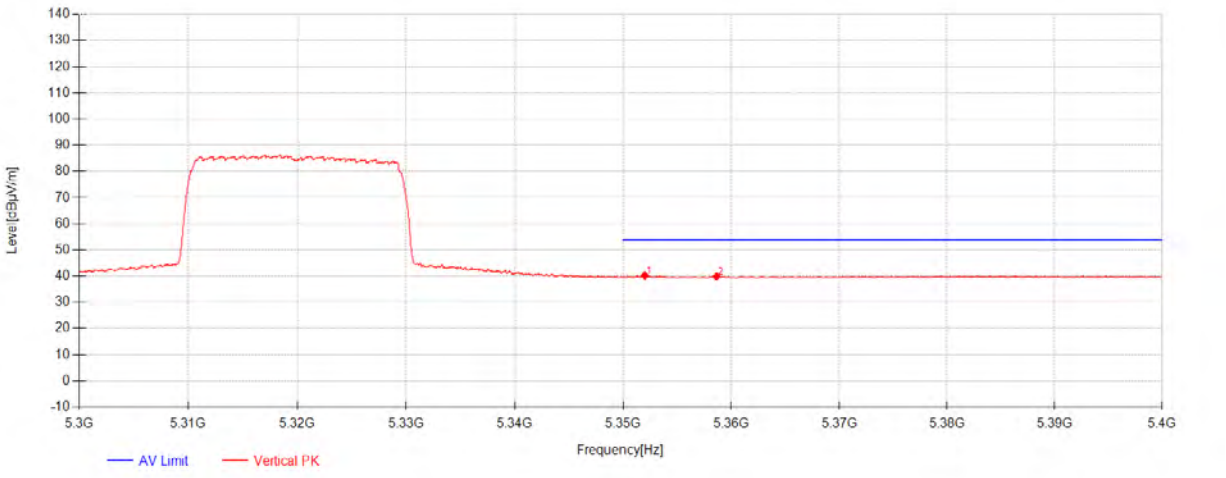
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5139.3	37.22	31.65	-19.17	49.71	74.00	24.29	Vertical
2	5147.4667	38.39	31.67	-19.15	50.91	74.00	23.09	Vertical

802.11ax20_Channel 64



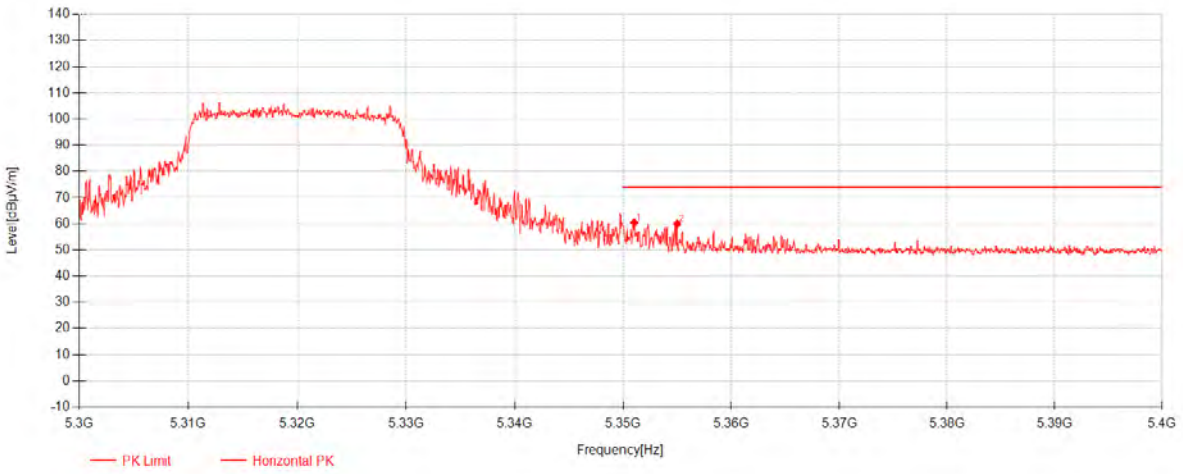
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5351.6667	28.22	32.03	-18.90	41.35	54.00	12.65	Horizontal
2	5358.2333	27.95	32.04	-18.92	41.08	54.00	12.92	Horizontal

802.11ax20_Channel 64



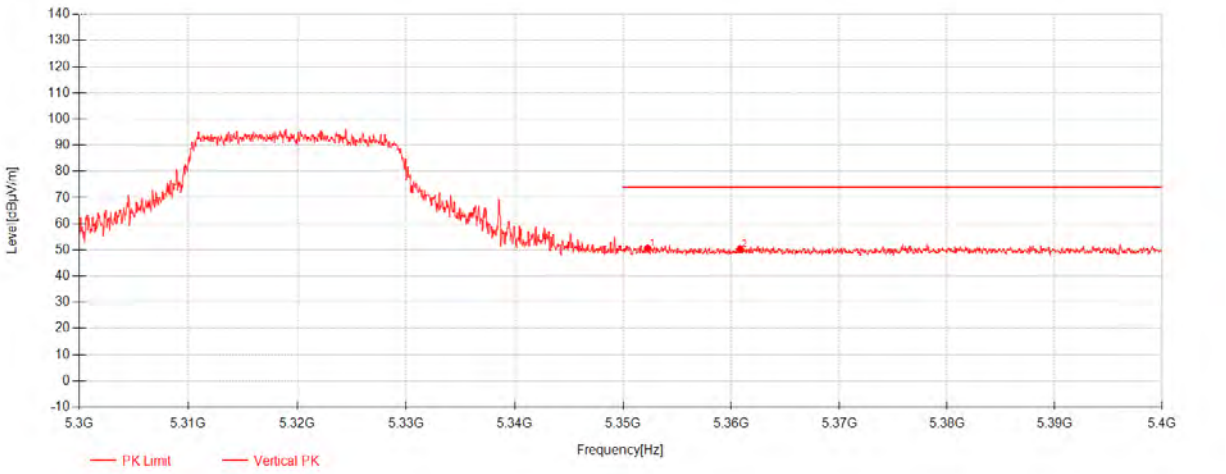
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5352	27.09	32.03	-18.90	40.22	54.00	13.78	Vertical
2	5358.6333	26.73	32.05	-18.92	39.85	54.00	14.15	Vertical

802.11ax20_Channel 64



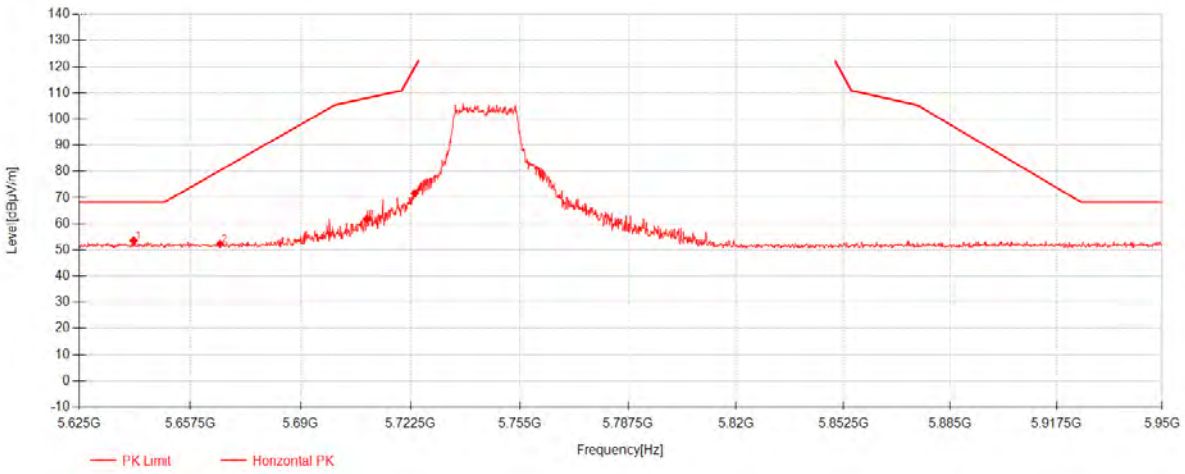
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5351.0333	47.27	32.03	-18.90	60.40	74.00	13.60	Horizontal
2	5355	46.83	32.04	-18.91	59.96	74.00	14.04	Horizontal

802.11ax20_Channel 64



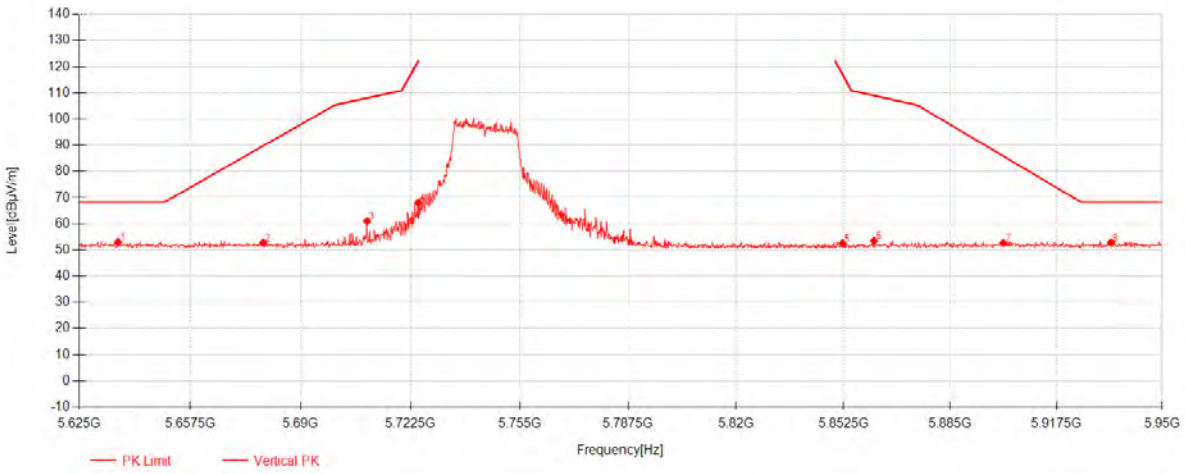
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5352.2667	37.55	32.03	-18.91	50.68	74.00	23.32	Vertical
2	5360.8	37.23	32.05	-18.93	50.35	74.00	23.65	Vertical

802.11ax20_Channel 149



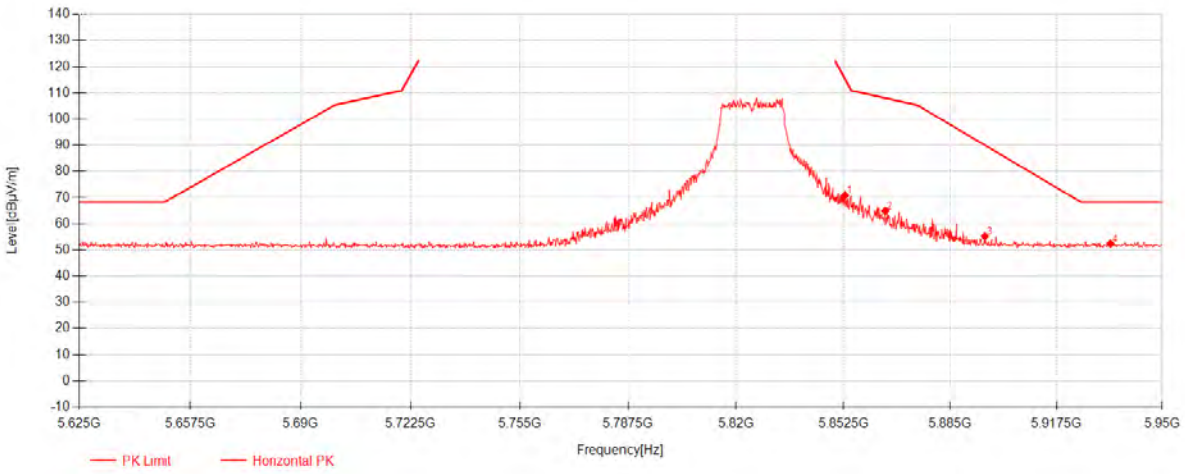
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5640.925	40.03	32.33	-18.72	53.63	68.30	14.67	Horizontal
2	5666.275	38.71	32.33	-18.73	52.32	80.38	28.06	Horizontal
3	5709.5	48.24	32.34	-18.76	61.82	107.96	46.14	Horizontal
4	5723.8	58.13	32.34	-18.80	71.67	119.56	47.89	Horizontal

802.11ax20_Channel 149



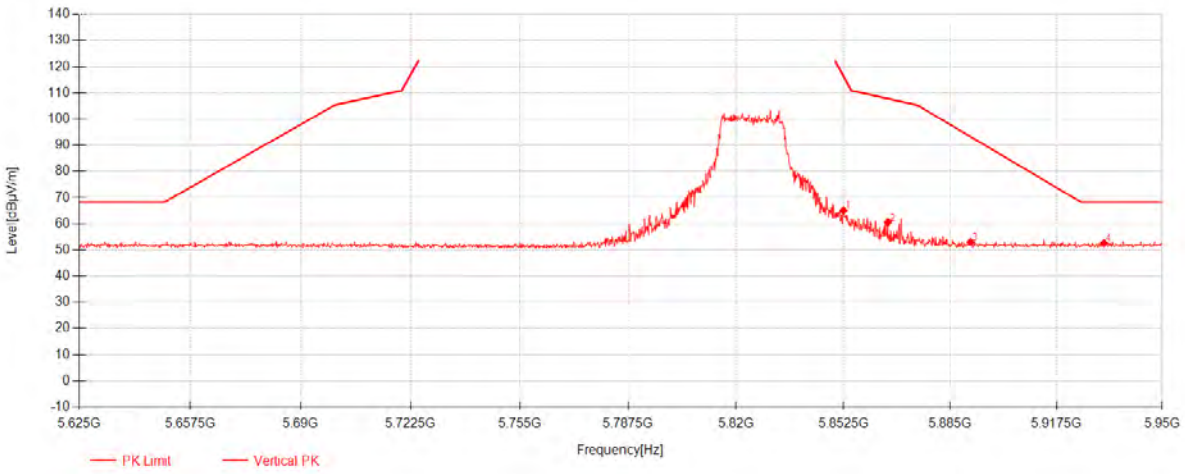
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5636.375	39.47	32.33	-18.72	53.07	68.30	15.23	Vertical
2	5678.95	39.18	32.34	-18.73	52.79	89.76	36.97	Vertical
3	5709.6625	47.37	32.34	-18.76	60.95	108.01	47.06	Vertical
4	5724.775	54.47	32.34	-18.80	68.01	121.79	53.78	Vertical
5	5852.175	39.06	32.37	-18.88	52.55	117.34	64.79	Vertical
6	5861.7625	40.02	32.37	-18.85	53.54	109.00	55.46	Vertical
7	5901.25	39.07	32.38	-18.74	52.71	85.84	33.13	Vertical
8	5934.2375	39.31	32.39	-18.81	52.88	68.30	15.42	Vertical

802.11ax20_Channel 165



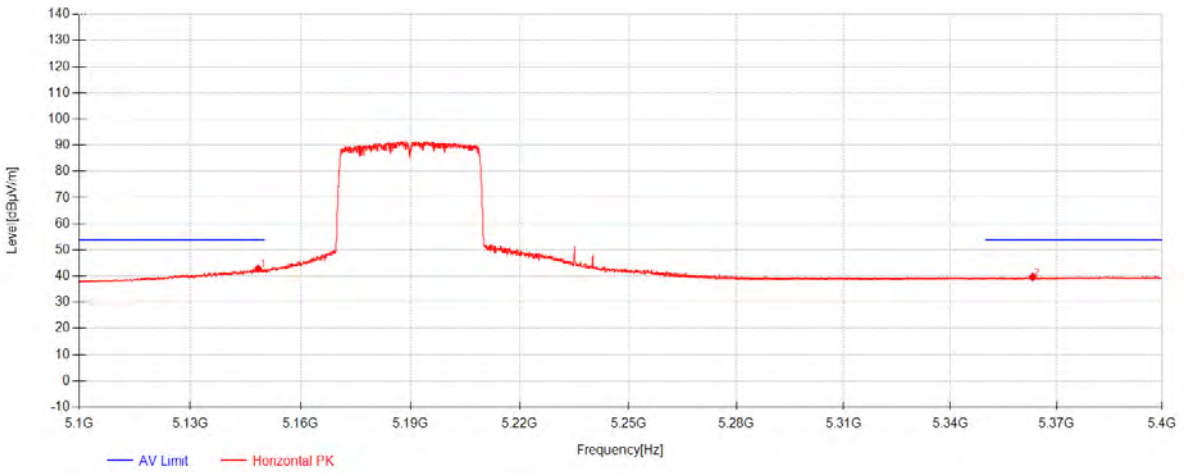
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5852.9875	57.40	32.37	-18.88	70.89	115.49	44.60	Horizontal
2	5865.175	51.46	32.37	-18.84	64.99	108.05	43.06	Horizontal
3	5895.5625	41.62	32.38	-18.75	55.25	90.05	34.80	Horizontal
4	5934.075	38.85	32.39	-18.81	52.43	68.30	15.87	Horizontal

802.11ax20_Channel 165



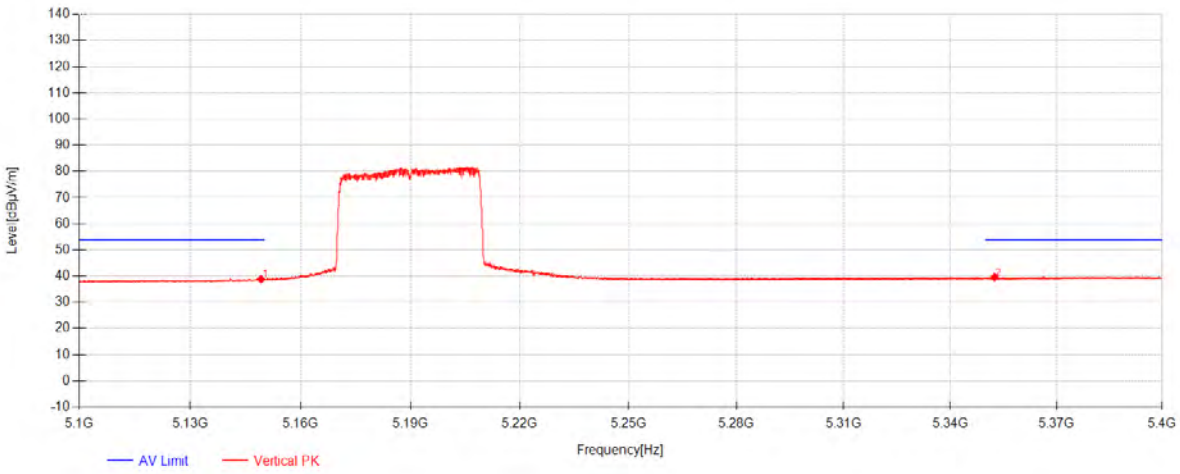
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5852.5	51.62	32.37	-18.88	65.11	116.60	51.49	Vertical
2	5865.9875	47.03	32.37	-18.84	60.56	107.82	47.26	Vertical
3	5891.175	39.46	32.38	-18.77	53.07	93.30	40.23	Vertical
4	5932.125	39.04	32.39	-18.81	52.62	68.30	15.68	Vertical

802.11ax40_Channel 38



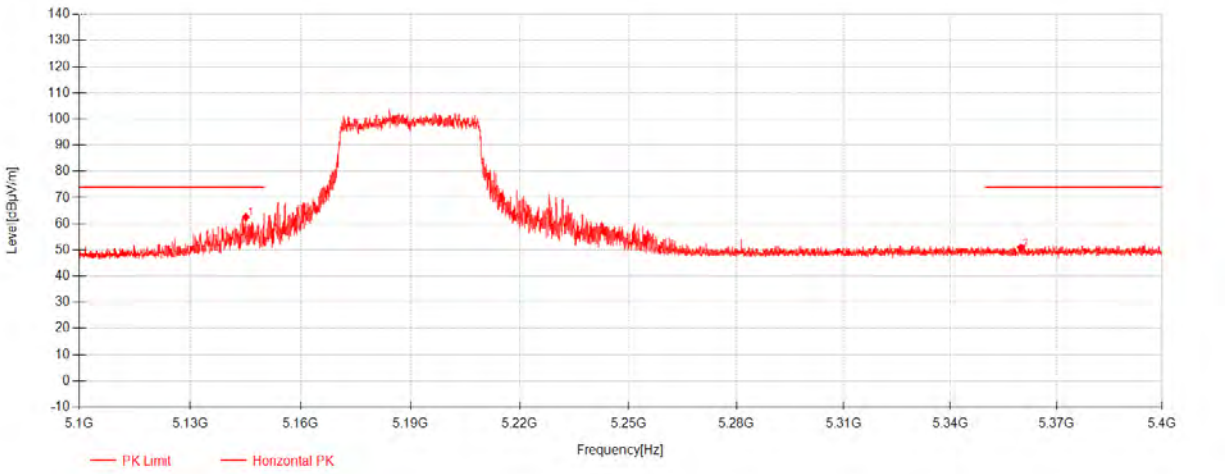
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5148.4267	30.34	31.67	-19.14	42.86	54.00	11.14	Horizontal
2	5363.25	26.51	32.05	-18.93	39.63	54.00	14.37	Horizontal

802.11ax40_Channel 38



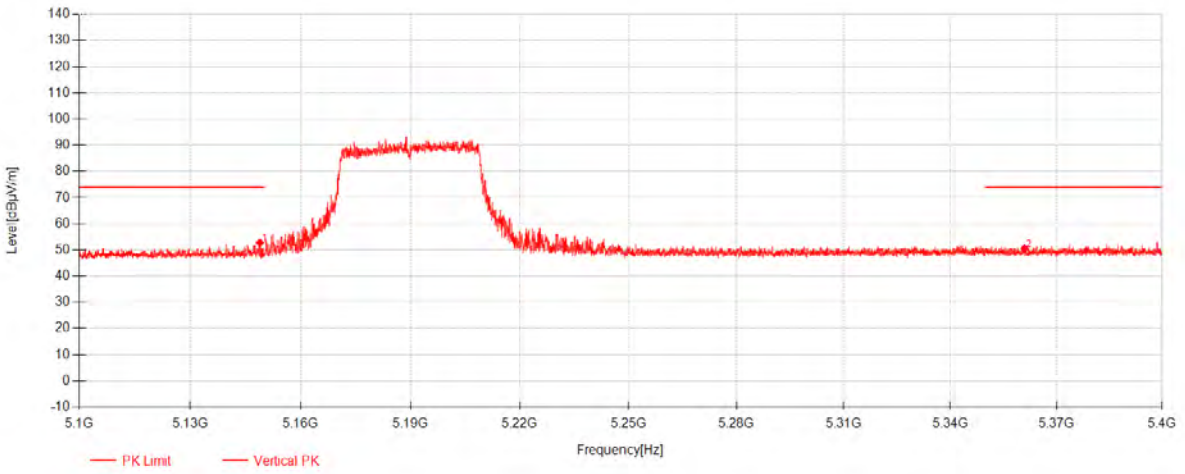
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5149.2267	26.25	31.67	-19.14	38.78	54.00	15.22	Vertical
2	5352.435	26.45	32.03	-18.91	39.58	54.00	14.42	Vertical

802.11ax40_Channel 38



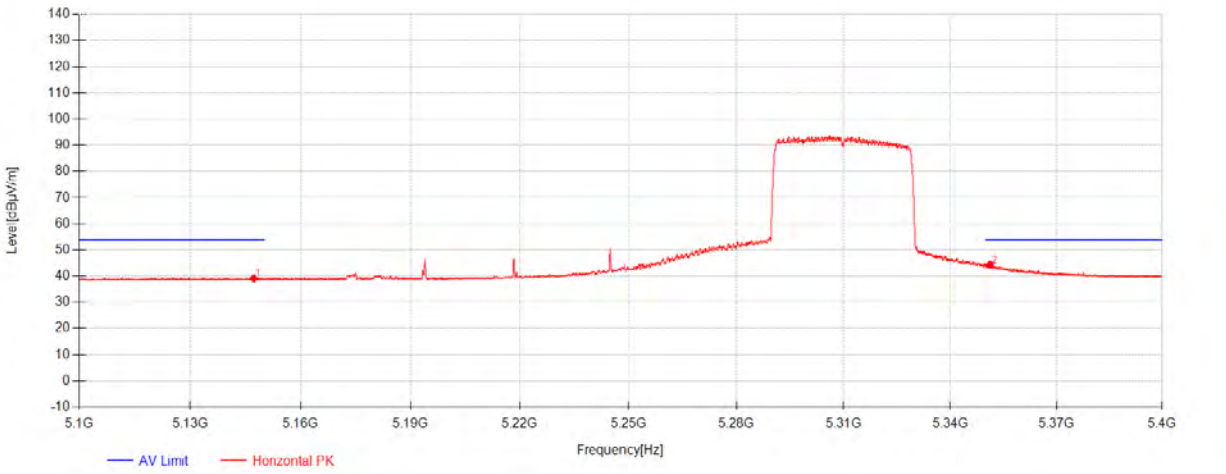
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5145.1	50.04	31.66	-19.15	62.55	74.00	11.45	Horizontal
2	5359.925	37.82	32.05	-18.92	50.94	74.00	23.06	Horizontal

802.11ax40_Channel 38



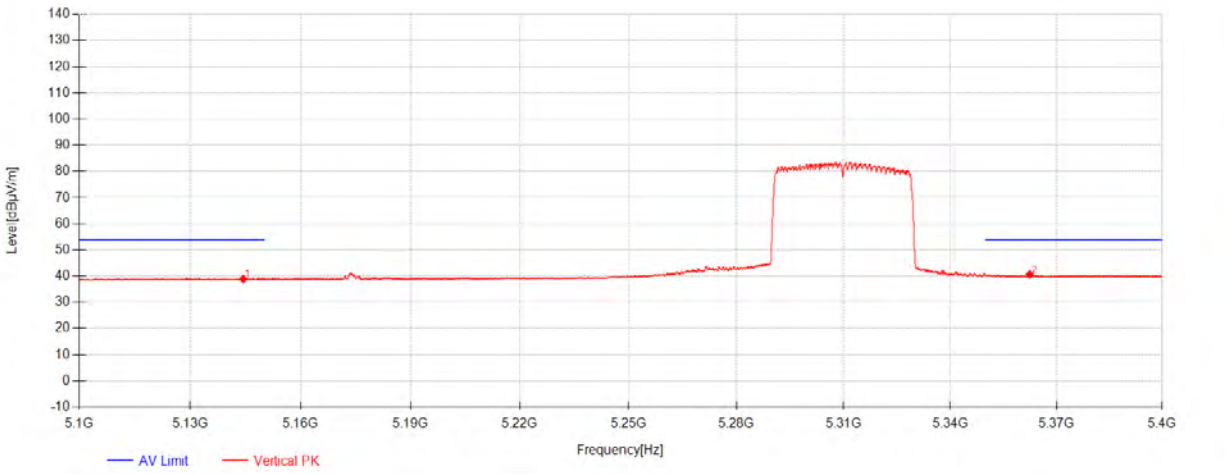
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5148.92	40.33	31.67	-19.14	52.86	74.00	21.14	Vertical
2	5360.9225	37.43	32.05	-18.93	50.55	74.00	23.45	Vertical

802.11ax40_Channel 62



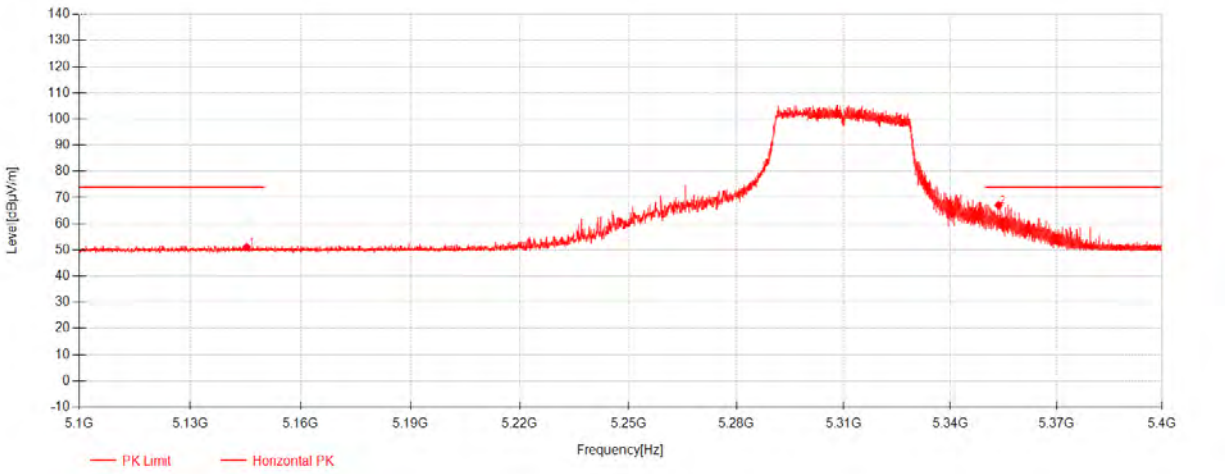
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5147.2	26.62	31.66	-19.15	39.14	54.00	14.86	Horizontal
2	5351.175	31.36	32.03	-18.90	44.49	54.00	9.51	Horizontal

802.11ax40_Channel 62



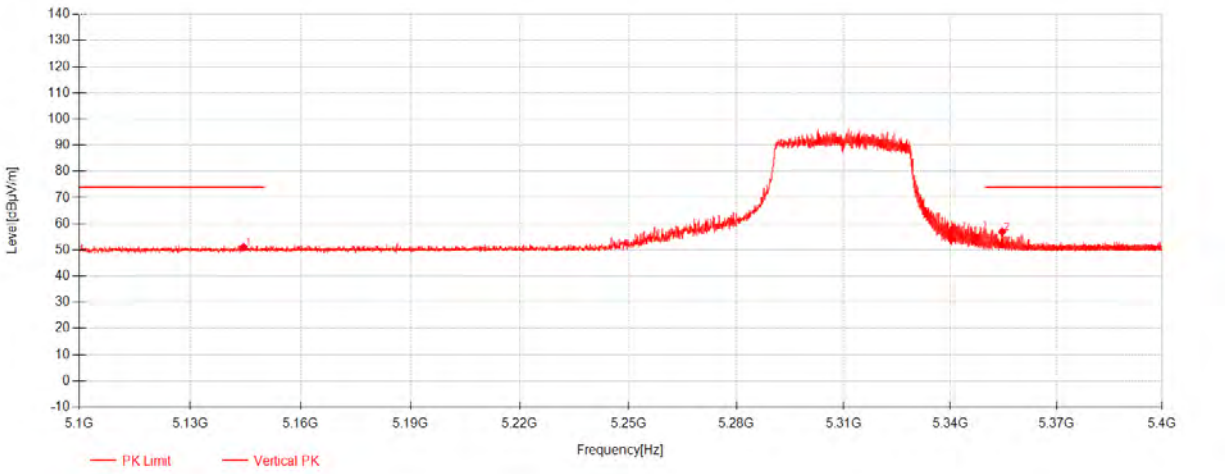
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5144.4	26.37	31.66	-19.15	38.88	54.00	15.12	Vertical
2	5362.425	27.48	32.05	-18.93	40.60	54.00	13.40	Vertical

802.11ax40_Channel 62



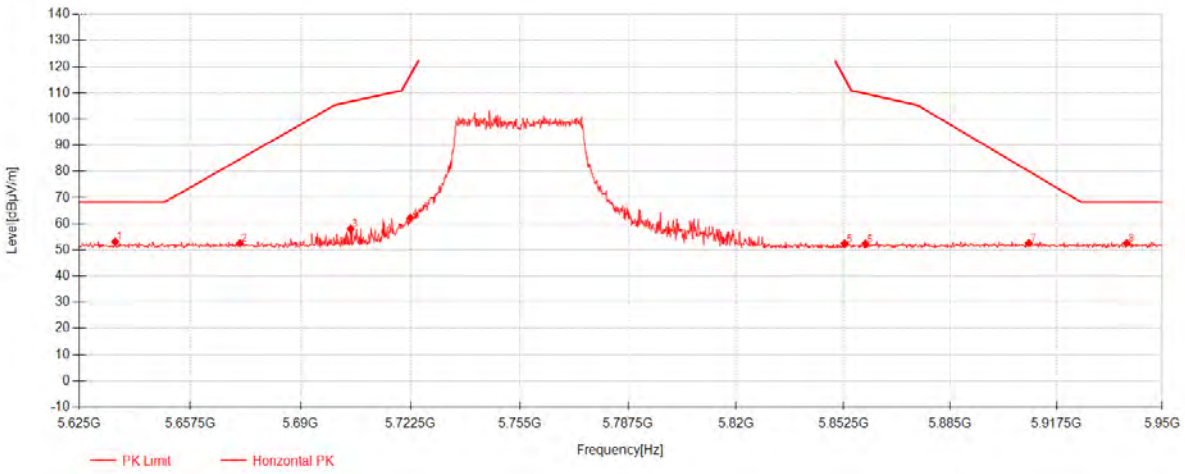
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5145.3333	38.67	31.66	-19.15	51.18	74.00	22.82	Horizontal
2	5353.5875	53.99	32.04	-18.91	67.12	74.00	6.88	Horizontal

802.11ax40_Channel 62



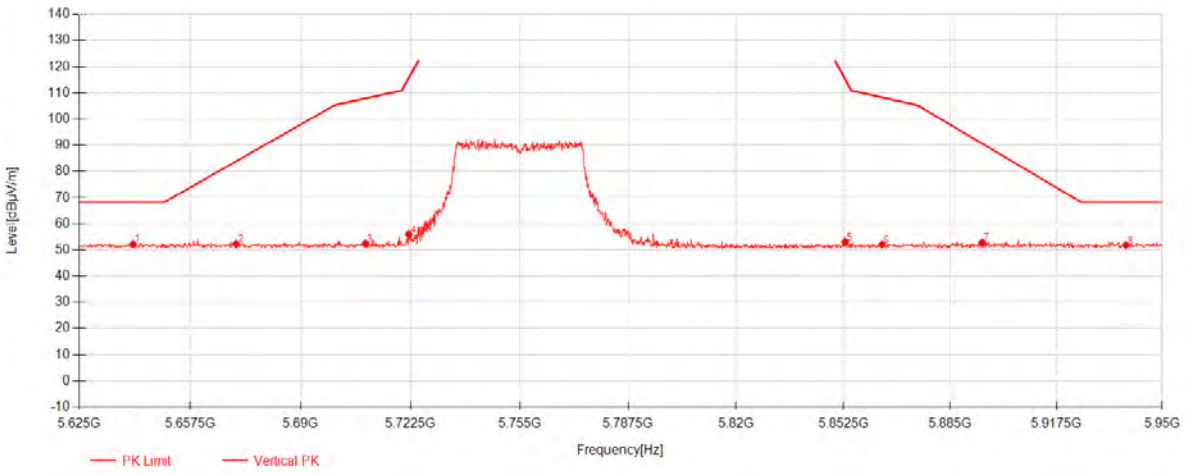
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5144.4667	38.68	31.66	-19.15	51.19	74.00	22.81	Vertical
2	5354.6125	43.83	32.04	-18.91	56.96	74.00	17.04	Vertical

802.11ax40_Channel 151



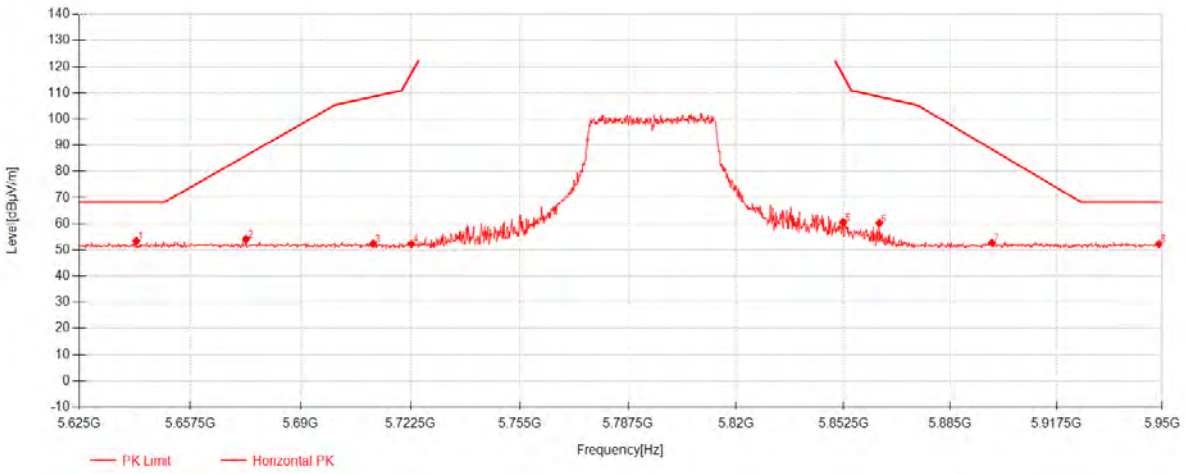
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5635.5625	39.61	32.33	-18.72	53.21	68.30	15.09	Horizontal
2	5672.125	38.96	32.33	-18.73	52.57	84.71	32.14	Horizontal
3	5704.7875	44.43	32.34	-18.74	58.03	106.64	48.61	Horizontal
4	5722.5	48.74	32.34	-18.80	62.29	116.60	54.31	Horizontal
5	5852.825	39.02	32.37	-18.88	52.51	115.86	63.35	Horizontal
6	5859.1625	38.90	32.37	-18.86	52.41	109.73	57.32	Horizontal
7	5909.05	39.01	32.38	-18.76	52.63	80.07	27.44	Horizontal
8	5939.1125	39.10	32.39	-18.82	52.67	68.30	15.63	Horizontal

802.11ax40_Channel 151



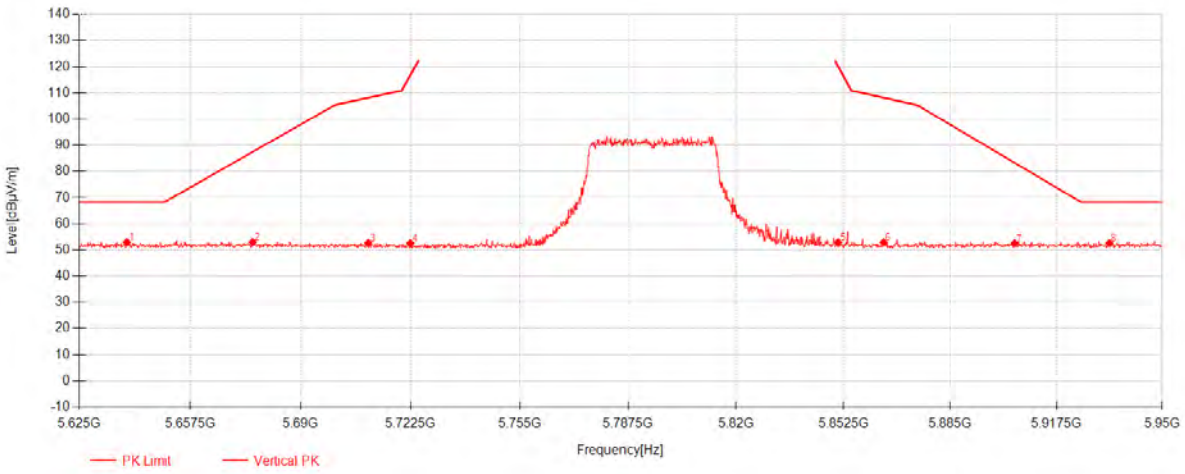
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5640.7625	38.69	32.33	-18.72	52.29	68.30	16.01	Vertical
2	5670.9875	38.70	32.33	-18.73	52.31	83.87	31.56	Vertical
3	5709.175	38.87	32.34	-18.76	52.45	107.87	55.42	Vertical
4	5722.0125	42.49	32.34	-18.80	56.04	115.49	59.45	Vertical
5	5852.9875	39.70	32.37	-18.88	53.19	115.49	62.30	Vertical
6	5864.2	38.60	32.37	-18.84	52.13	108.32	56.19	Vertical
7	5894.75	39.31	32.38	-18.76	52.93	90.65	37.72	Vertical
8	5938.7875	38.32	32.39	-18.82	51.89	68.30	16.41	Vertical

802.11ax40_Channel 159



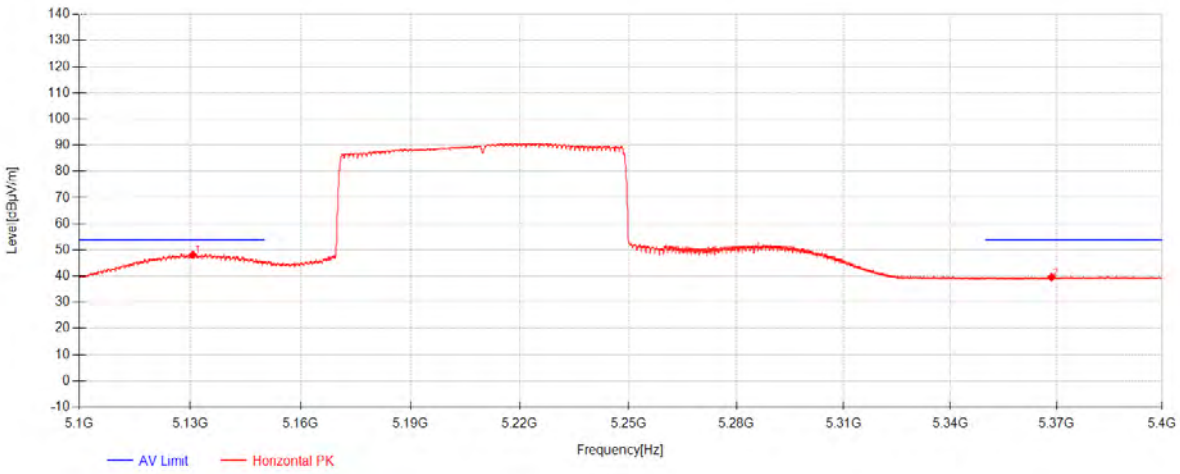
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5641.7375	39.86	32.33	-18.72	53.46	68.30	14.84	Horizontal
2	5673.9125	40.53	32.33	-18.73	54.14	86.04	31.90	Horizontal
3	5711.45	38.88	32.34	-18.76	52.46	108.51	56.05	Horizontal
4	5722.825	38.73	32.34	-18.80	52.28	117.34	65.06	Horizontal
5	5852.3375	47.08	32.37	-18.88	60.57	116.97	56.40	Horizontal
6	5863.3875	46.66	32.37	-18.85	60.19	108.55	48.36	Horizontal
7	5897.675	39.14	32.38	-18.75	52.77	88.48	35.71	Horizontal
8	5949.025	38.70	32.39	-18.84	52.25	68.30	16.05	Horizontal

802.11ax40_Channel 159



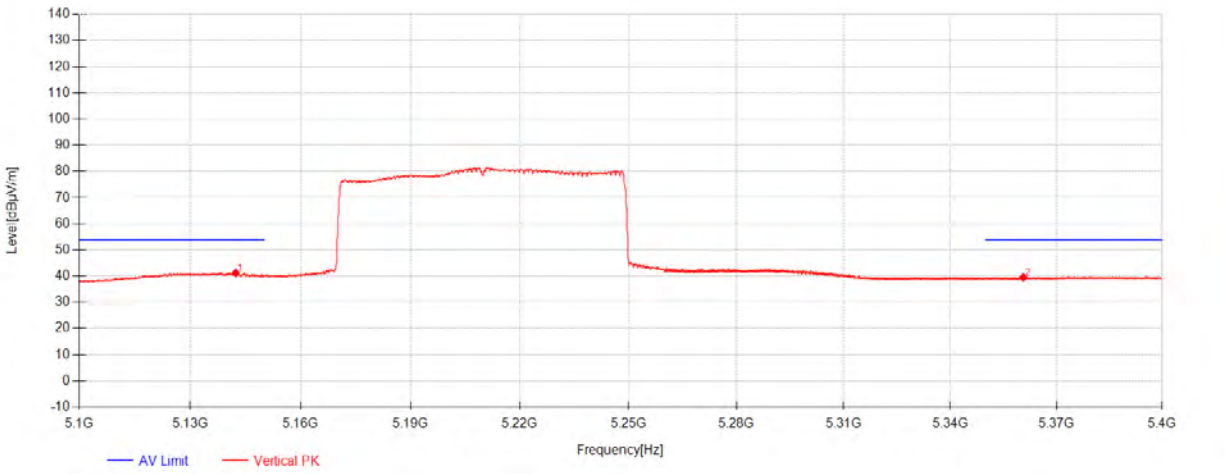
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5638.975	39.43	32.33	-18.72	53.03	68.30	15.27	Vertical
2	5675.8625	39.45	32.34	-18.73	53.06	87.48	34.42	Vertical
3	5709.9875	39.14	32.34	-18.76	52.72	108.10	55.38	Vertical
4	5722.5	39.10	32.34	-18.80	52.65	116.60	63.95	Vertical
5	5850.875	39.50	32.37	-18.88	52.99	120.30	67.31	Vertical
6	5864.6875	39.41	32.37	-18.84	52.94	108.19	55.25	Vertical
7	5904.6625	38.93	32.38	-18.75	52.56	83.31	30.75	Vertical
8	5933.75	39.05	32.39	-18.81	52.63	68.30	15.67	Vertical

802.11ax80_Channel 42



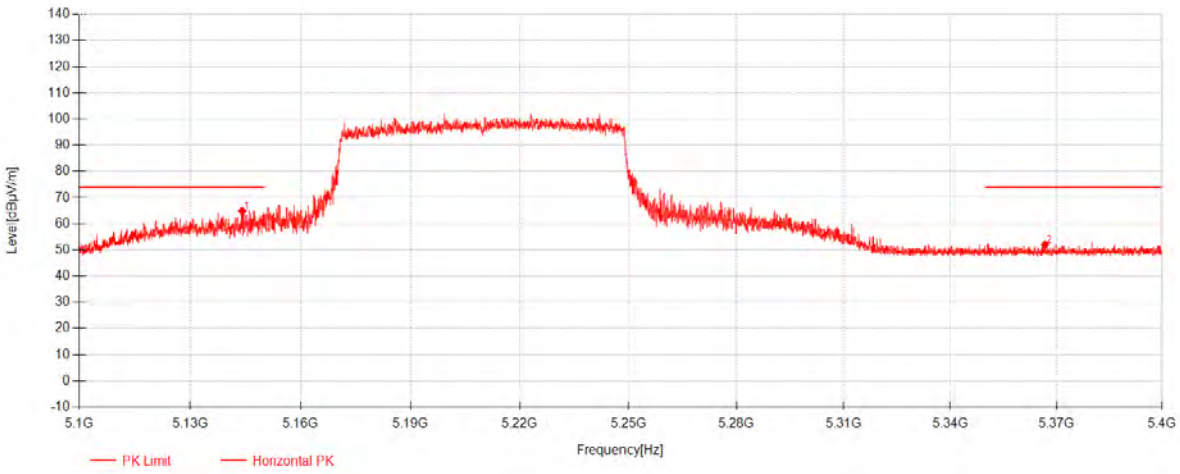
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5130.72	35.69	31.64	-19.19	48.14	54.00	5.86	Horizontal
2	5368.57	26.46	32.06	-18.94	39.58	54.00	14.42	Horizontal

802.11ax80_Channel 42



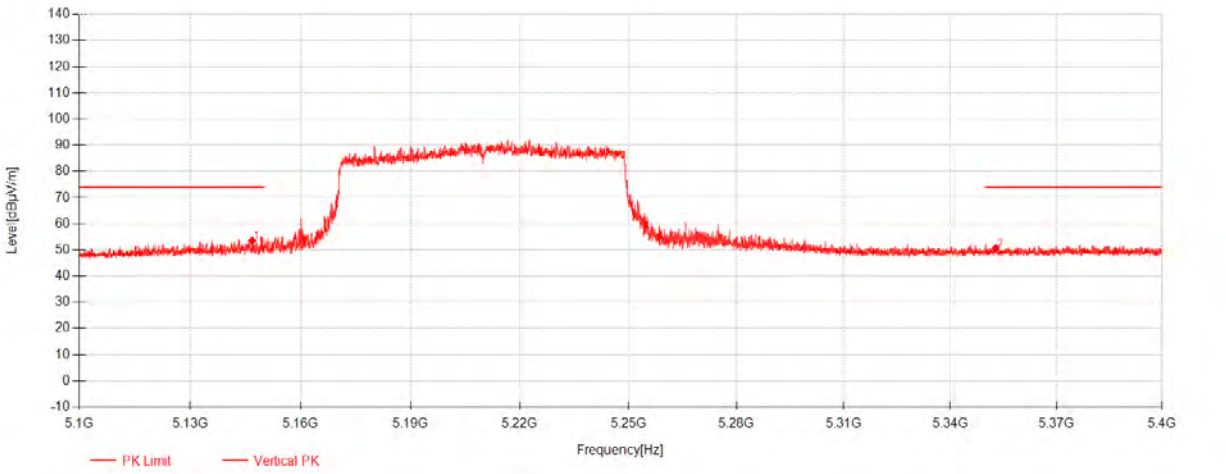
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5142.3467	28.70	31.66	-19.16	41.20	54.00	12.80	Vertical
2	5360.59	26.41	32.05	-18.93	39.53	54.00	14.47	Vertical

802.11ax80_Channel 42



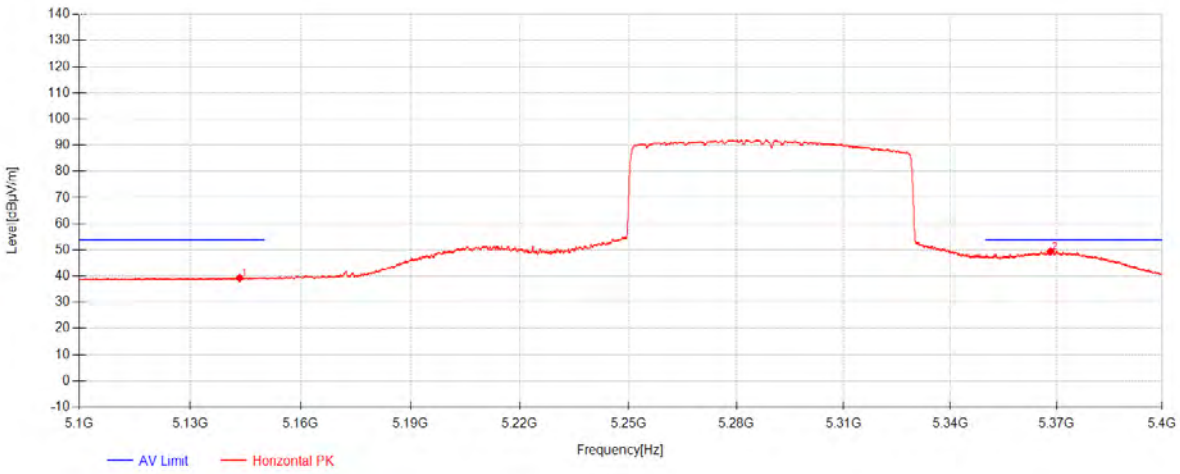
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5144.1	52.45	31.66	-19.15	64.96	74.00	9.04	Horizontal
2	5366.7325	38.96	32.06	-18.94	52.08	74.00	21.92	Horizontal

802.11ax80_Channel 42



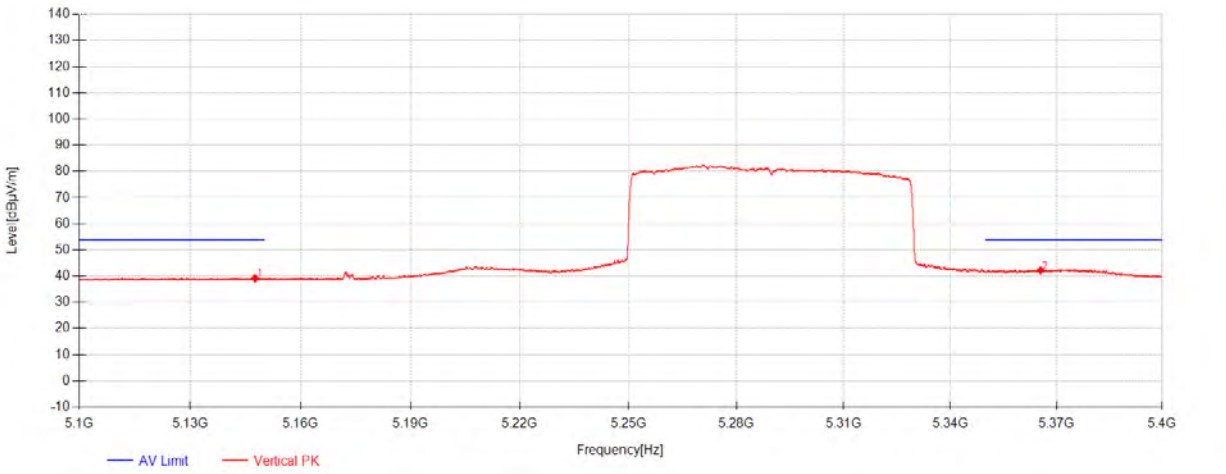
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5146.82	41.06	31.66	-19.15	53.58	74.00	20.42	Vertical
2	5352.8375	37.55	32.04	-18.91	50.68	74.00	23.32	Vertical

802.11ax80_Channel 58



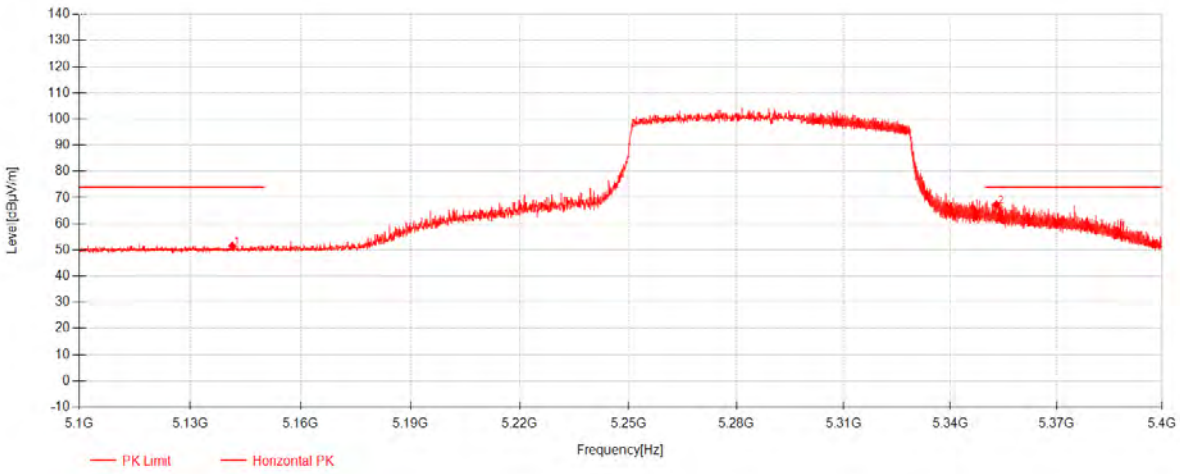
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5143.4	26.79	31.66	-19.16	39.29	54.00	14.71	Horizontal
2	5368.3	36.29	32.06	-18.94	49.41	54.00	4.59	Horizontal

802.11ax80_Channel 58



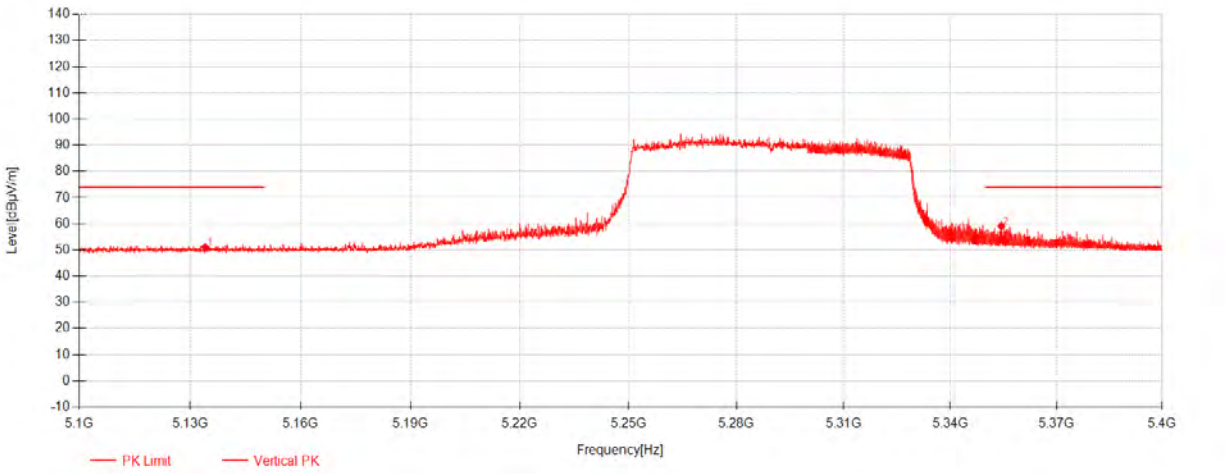
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5147.6	26.65	31.67	-19.15	39.17	54.00	14.83	Vertical
2	5365.475	29.10	32.06	-18.94	42.22	54.00	11.78	Vertical

802.11ax80_Channel 58



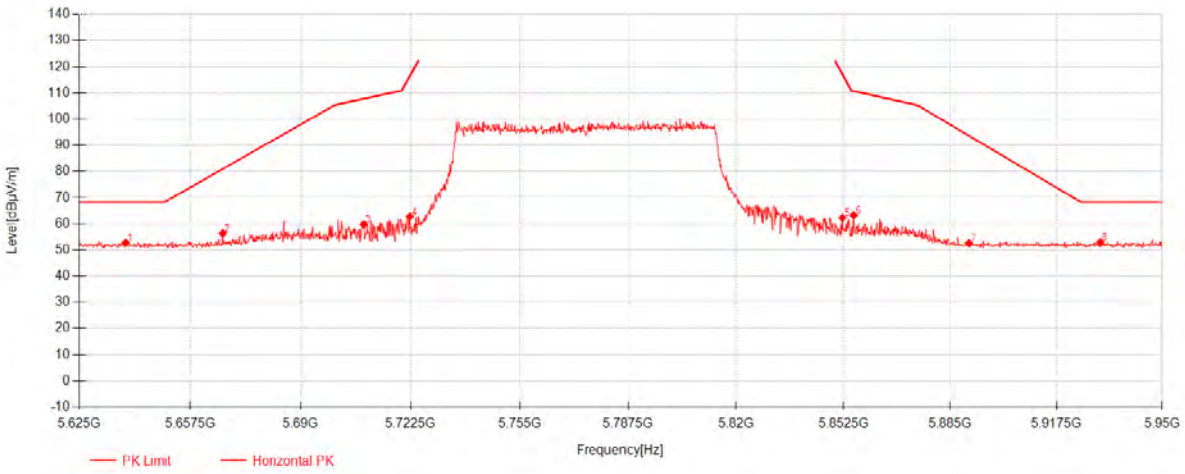
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5141.4	39.06	31.65	-19.16	51.55	74.00	22.45	Horizontal
2	5353	54.13	32.04	-18.91	67.26	74.00	6.74	Horizontal

802.11ax80_Channel 58



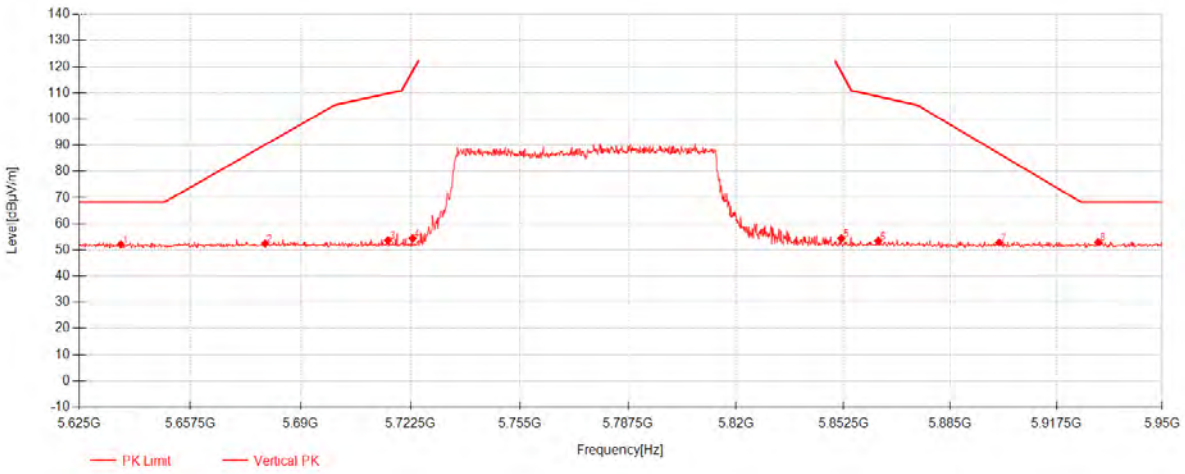
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5134.0667	38.65	31.64	-19.18	51.11	74.00	22.89	Vertical
2	5354.4125	45.93	32.04	-18.91	59.06	74.00	14.94	Vertical

802.11ax80_Channel 155



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5638.65	39.23	32.33	-18.72	52.83	68.30	15.47	Horizontal
2	5667.0875	42.73	32.33	-18.73	56.34	80.98	24.64	Horizontal
3	5708.6875	46.15	32.34	-18.76	59.74	107.73	47.99	Horizontal
4	5722.3375	49.22	32.34	-18.80	62.77	116.23	53.46	Horizontal
5	5852.175	48.79	32.37	-18.88	62.28	117.34	55.06	Horizontal
6	5855.5875	49.82	32.37	-18.87	63.32	110.74	47.42	Horizontal
7	5890.6875	39.03	32.38	-18.77	52.64	93.66	41.02	Horizontal
8	5930.9875	39.43	32.39	-18.81	53.01	68.30	15.29	Horizontal

802.11ax80_Channel 155



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5637.1875	38.53	32.33	-18.72	52.13	68.30	16.17	Vertical
2	5679.6	38.86	32.34	-18.73	52.47	90.24	37.77	Vertical
3	5715.8375	40.14	32.34	-18.78	53.71	109.74	56.03	Vertical
4	5723.15	40.93	32.34	-18.80	54.48	118.08	63.60	Vertical
5	5851.85	40.90	32.37	-18.88	54.39	118.08	63.69	Vertical
6	5863.0625	39.95	32.37	-18.85	53.48	108.64	55.16	Vertical
7	5899.95	39.20	32.38	-18.74	52.84	86.80	33.96	Vertical
8	5930.3375	39.43	32.39	-18.80	53.01	68.30	15.29	Vertical

7.6 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

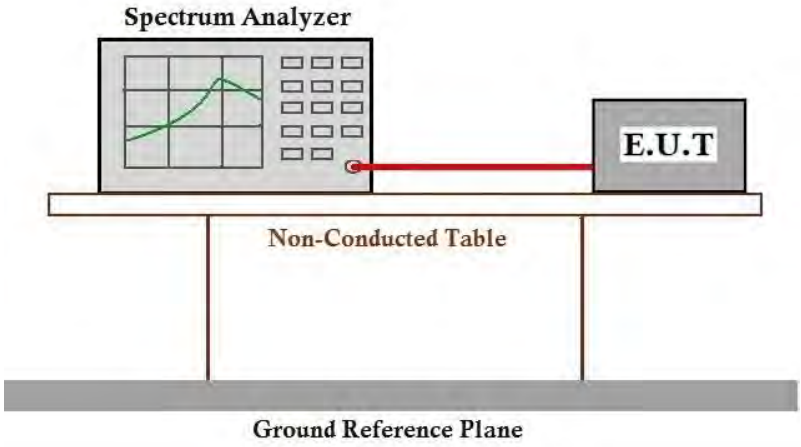
7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3) _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/ax 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 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

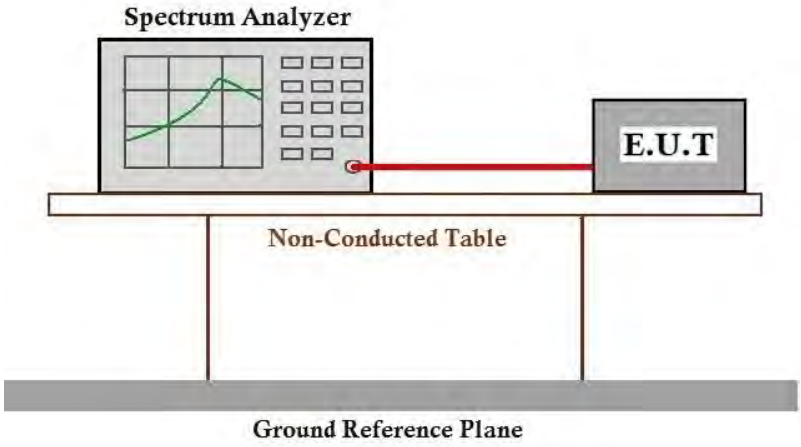
7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3) _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/ax 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 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II C 1

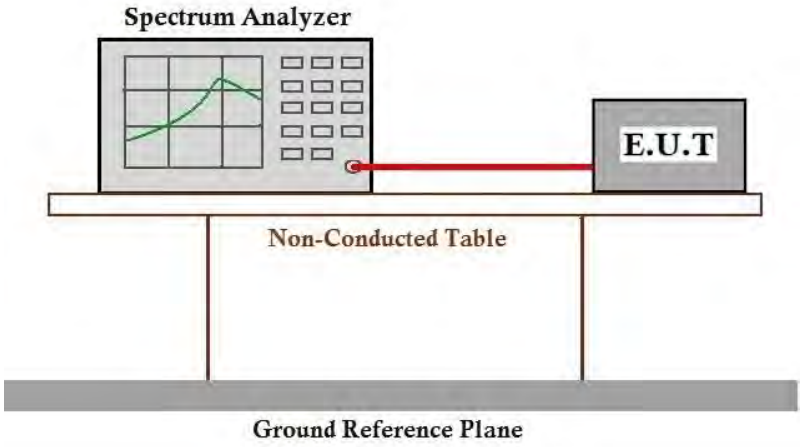
7.8.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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/ax 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 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)
Test Method: KDB 789033 D02 II C 2

Limit:

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

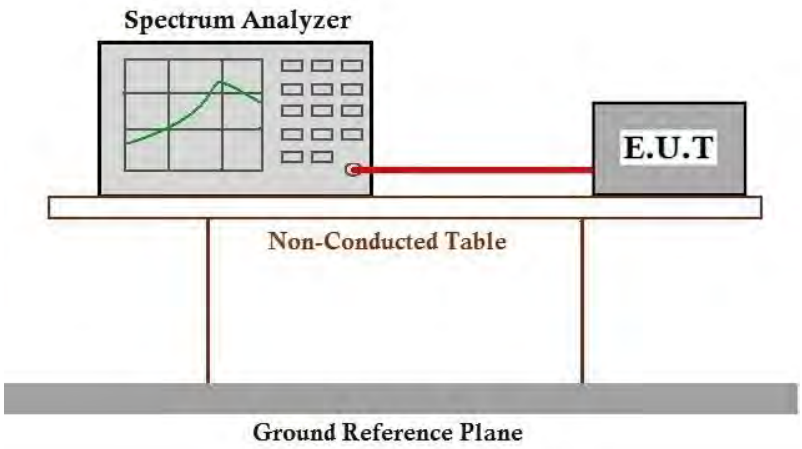
7.9.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-3) _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/ax 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

Please Refer to Appendix for Details

7.10 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II F

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.

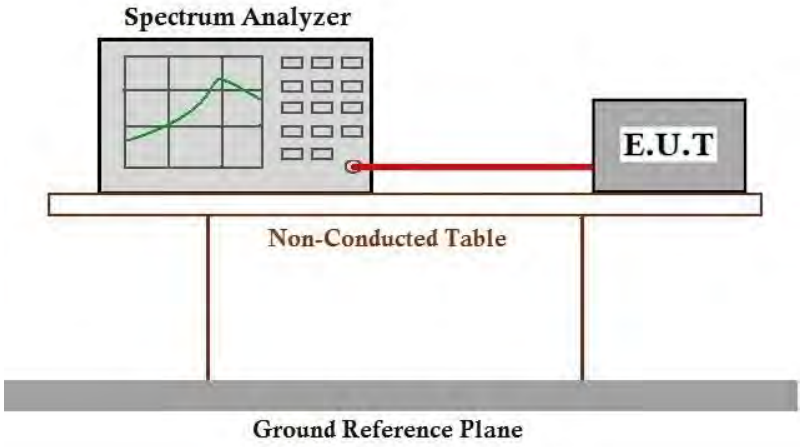
7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3) _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/ax 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)
Test Method: ANSI C63.10 (2013) Section 6.8

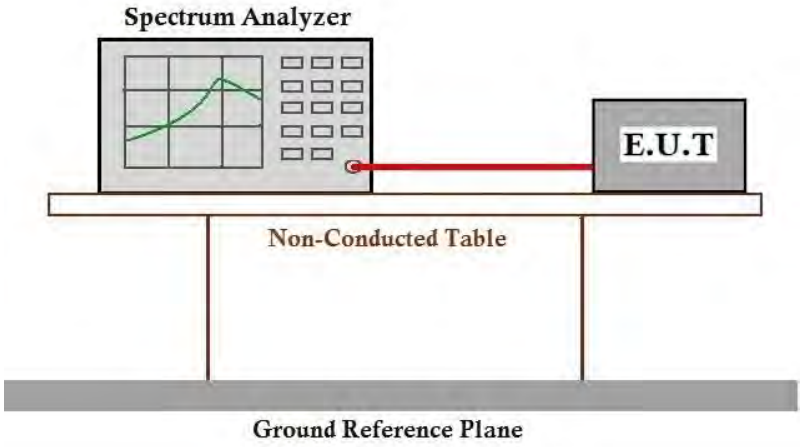
7.11.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3) _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/ax 20/40/80, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

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

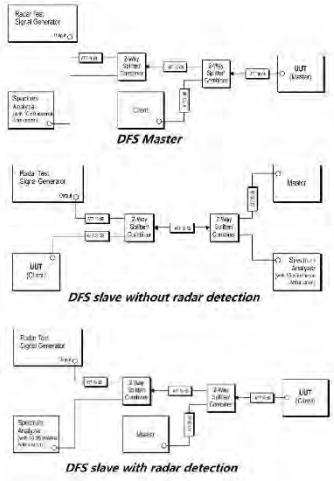
Operating Environment:

Temperature: 24.3 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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 X 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

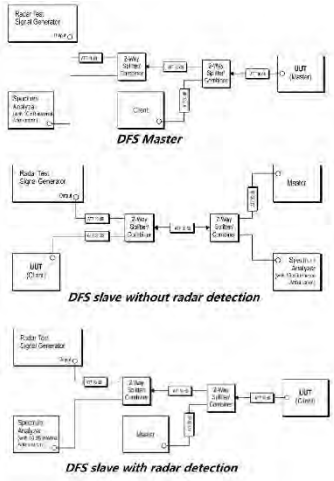
Operating Environment:

Temperature: 24.3 °C Humidity: 43.2 % RH Atmospheric Pressure: 1010 mbar

7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



7.13.4 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 X 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

7.14 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.

7.14.1 E.U.T. Operation

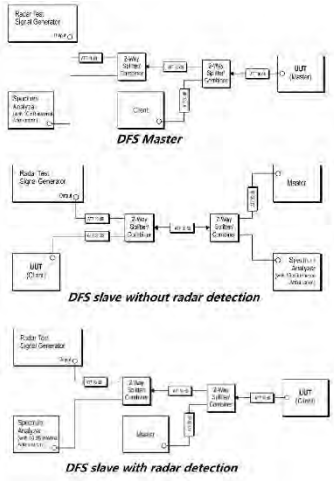
Operating Environment:

Temperature: 20.8 °C Humidity: 54.0 % RH Atmospheric Pressure: 1010 mbar

7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



7.14.4 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 X 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

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2408001624AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2408001624AT

10 Appendix

1. Duty Cycle

1.1 Test Result

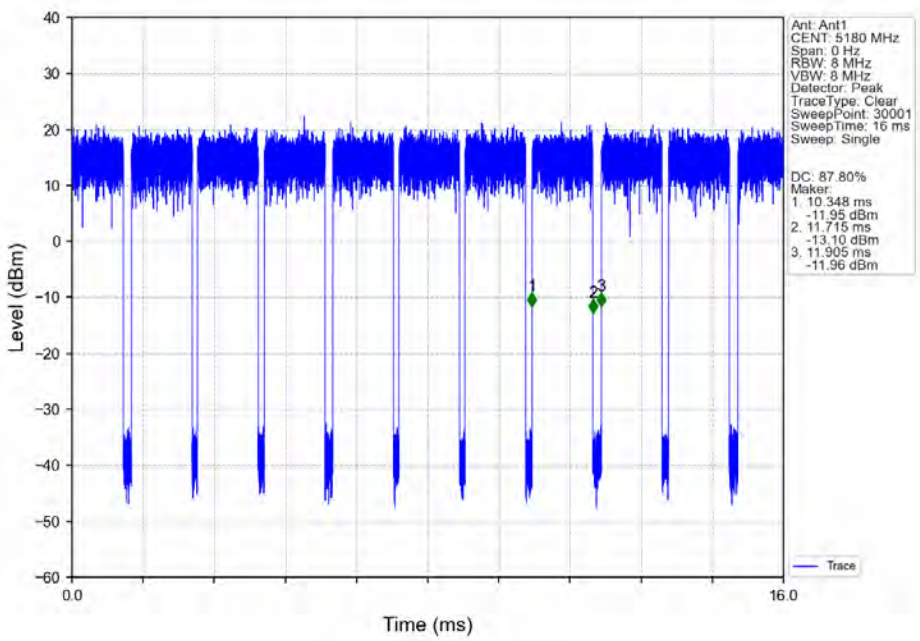
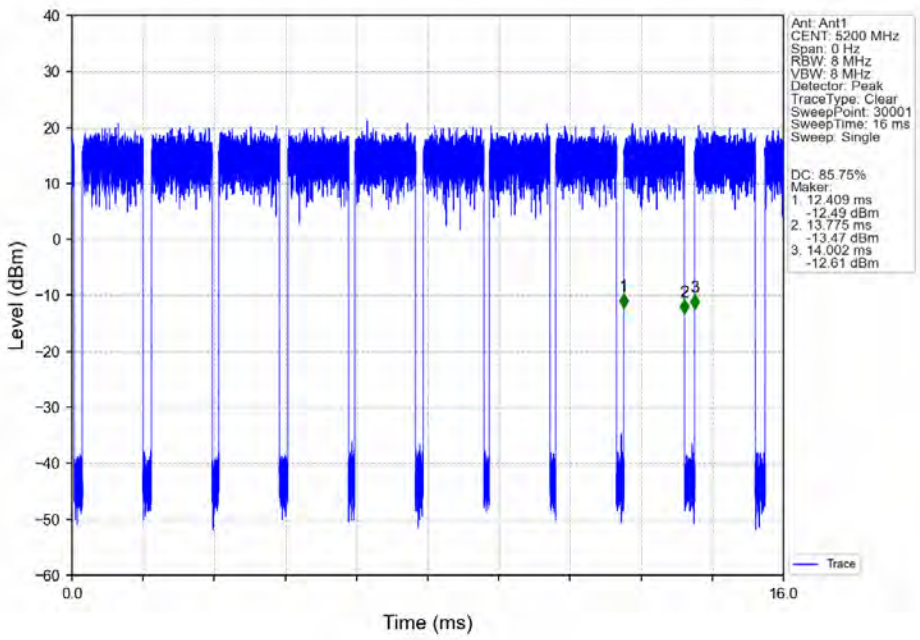
1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.367	1.557	87.80	0.57	4.26
		5200	/	/	1.366	1.593	85.75	0.67	6.22
		5240	/	/	1.366	1.539	88.76	0.52	3.26
		5260	/	/	1.366	1.602	85.27	0.69	6.74
		5300	/	/	1.366	1.602	85.27	0.69	6.75
		5320	/	/	1.367	1.603	85.28	0.69	6.74
		5745	/	/	1.366	2.712	50.37	2.98	41.92
		5785	/	/	1.366	1.544	88.47	0.53	3.76
		5825	/	/	1.366	1.593	85.75	0.67	6.26
802.11ac (VHT20)	SISO	5180	/	/	1.286	1.486	86.54	0.63	4.99
		5200	/	/	1.286	1.495	86.02	0.65	5.51
		5240	/	/	1.286	1.523	84.44	0.73	6.45
		5260	/	/	1.287	1.514	85.01	0.71	6.57
		5300	/	/	1.286	1.722	74.68	1.27	3.24
		5320	/	/	1.287	1.495	86.09	0.65	5.51
		5745	/	/	1.287	1.455	88.45	0.53	3.42
		5785	/	/	1.287	2.375	54.19	2.66	37.67
		5825	/	/	1.286	1.766	72.82	1.38	4.32
802.11ac (VHT40)	SISO	5190	/	/	0.937	1.146	81.76	0.87	6.99
		5230	/	/	0.936	1.097	85.32	0.69	3.73
		5270	/	/	0.938	1.165	80.52	0.94	8.25
		5310	/	/	0.938	1.164	80.58	0.94	7.49
		5755	/	/	0.938	1.089	86.13	0.65	2.97
		5795	/	/	0.938	1.097	85.51	0.68	3.63
802.11ac (VHT80)	SISO	5210	/	/	4.525	4.703	96.22	0.17	1.33
		5290	/	/	4.525	4.685	96.58	0.15	0.97
		5775	/	/	4.539	4.667	97.26	0.12	0.57
802.11ax (HE20)	SISO	5180	RU242	Left	0.999	1.216	82.15	0.85	7.26
		5200	RU242	Left	0.999	1.190	83.95	0.76	5.47
		5240	RU242	Left	0.998	1.171	85.23	0.69	4.15
		5260	RU242	Left	0.998	1.319	75.66	1.21	12.99
		5300	RU242	Left	0.999	1.207	82.77	0.82	6.67
		5320	RU242	Left	0.999	1.216	82.15	0.85	7.30

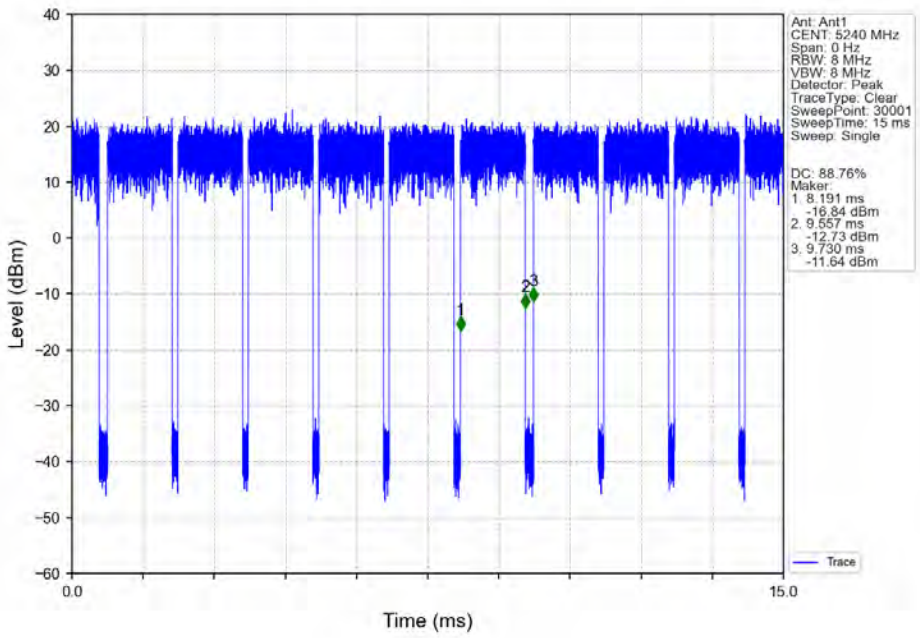
		5745	RU242	Left	0.999	1.150	86.87	0.61	2.84
		5785	RU242	Left	0.998	1.146	87.09	0.60	2.63
		5825	RU242	Left	0.999	1.462	68.33	1.65	4.98
802.11ax (HE40)	SISO	5190	RU484	Left	0.530	0.681	77.83	1.09	4.38
		5230	RU484	Left	0.530	1.010	52.48	2.80	5.14
		5270	RU484	Left	0.530	0.956	55.44	2.56	3.92
		5310	RU484	Left	0.530	0.757	70.01	1.55	11.71
		5755	RU484	Left	0.530	1.050	50.48	2.97	31.31
		5795	RU484	Left	0.529	0.707	74.82	1.26	7.35
802.11ax (HE80)	SISO	5210	RU996	Left	3.698	3.876	95.41	0.20	1.60
		5290	RU996	Left	3.699	4.143	89.28	0.49	1.81
		5775	RU996	Left	3.697	3.866	95.63	0.19	1.41

1.2 Test Graph

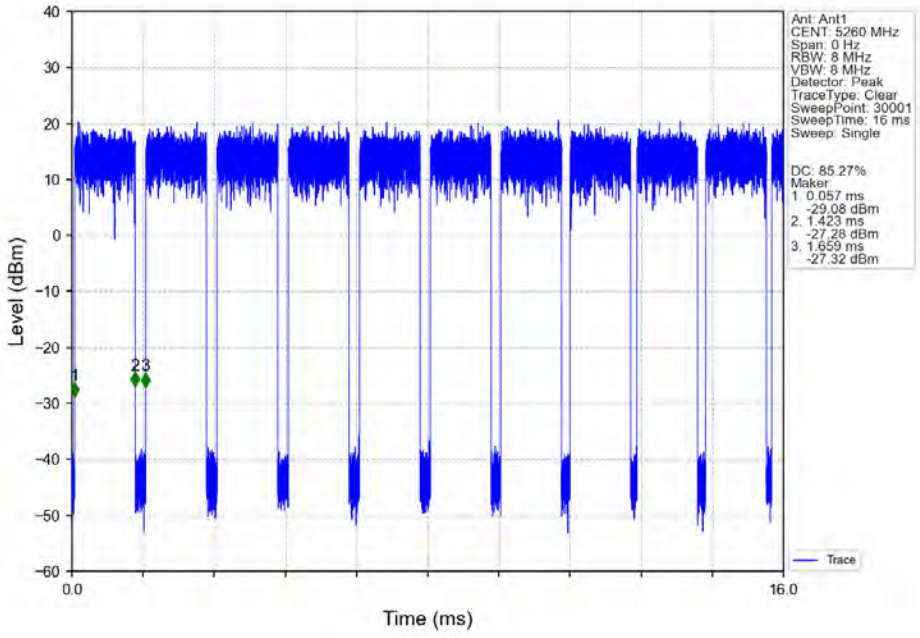
1.2.1 Ant1

802.11a_LCH_5180MHz_Ant1_NTNV

802.11a_MCH_5200MHz_Ant1_NTNV


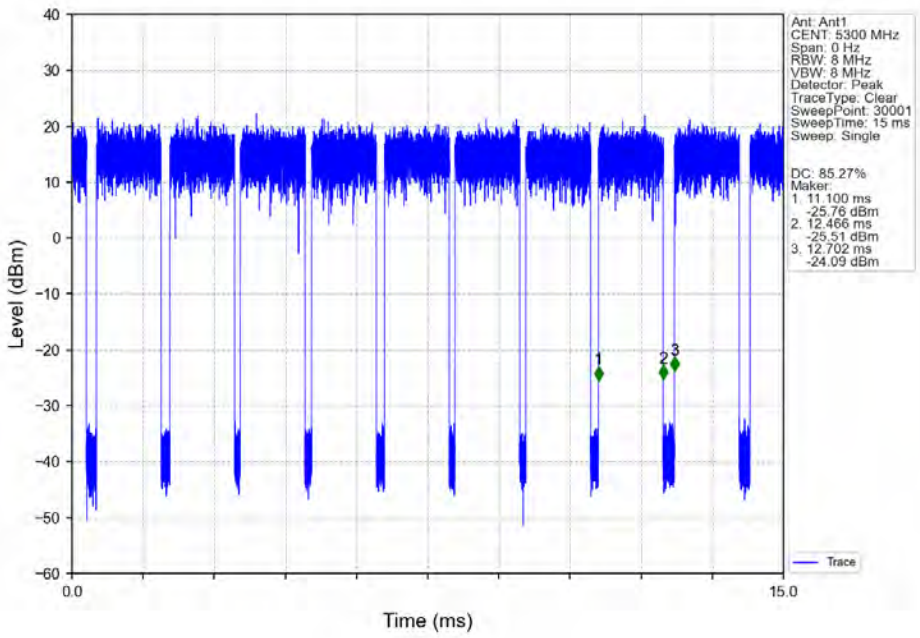
802.11a_HCH_5240MHz_Ant1_NTNV



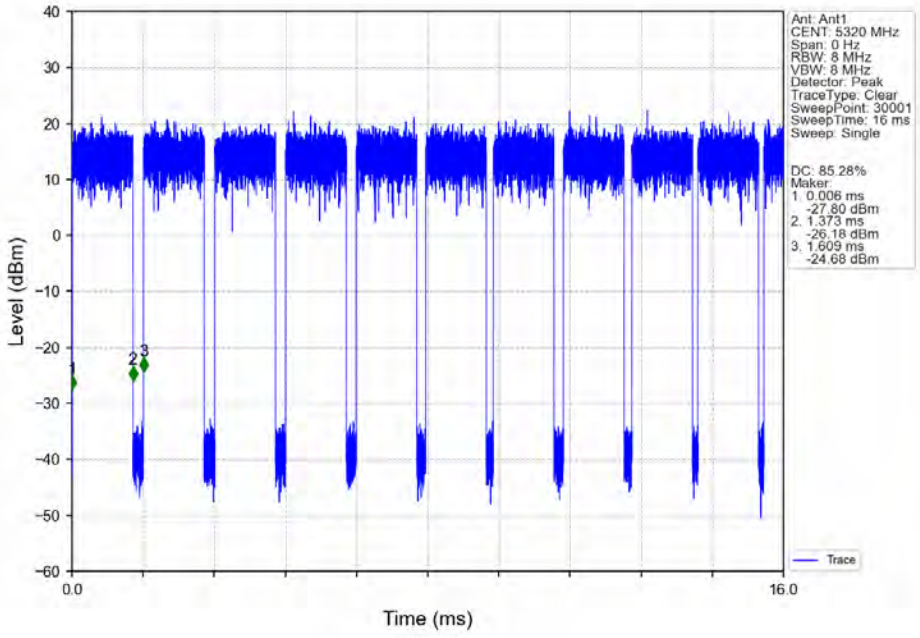
802.11a_LCH_5260MHz_Ant1_NTNV



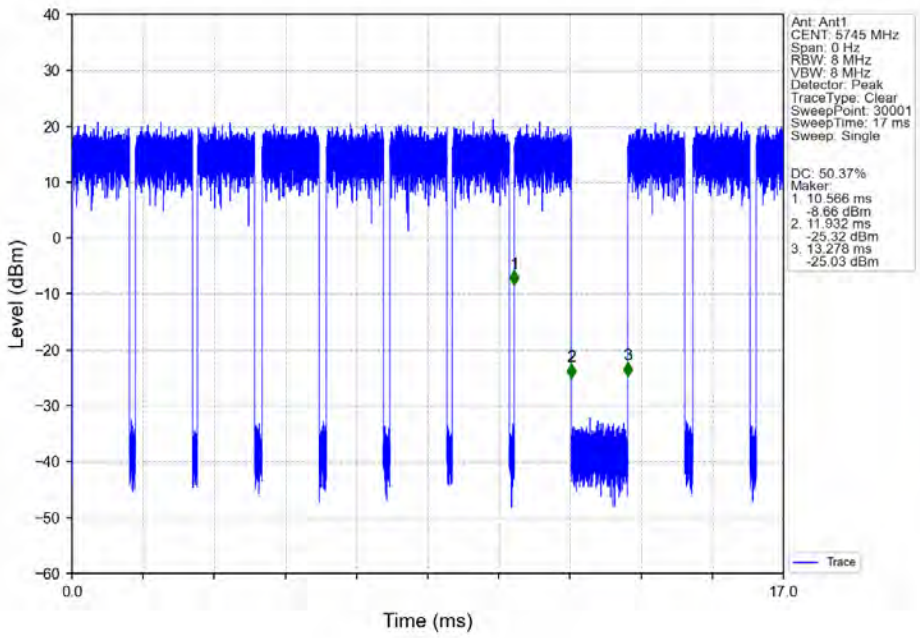
802.11a_MCH_5300MHz_Ant1_NTNV



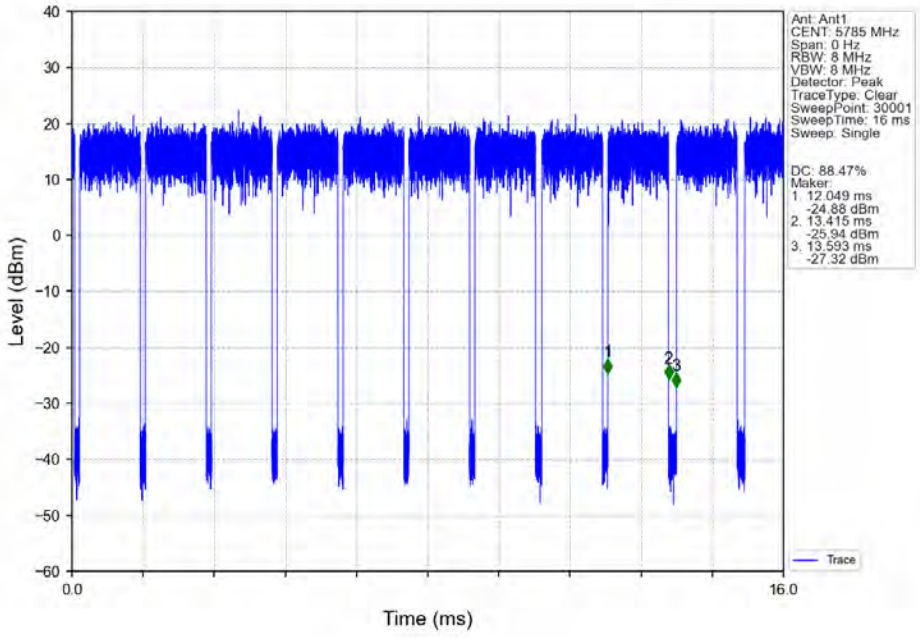
802.11a_HCH_5320MHz_Ant1_NTNV



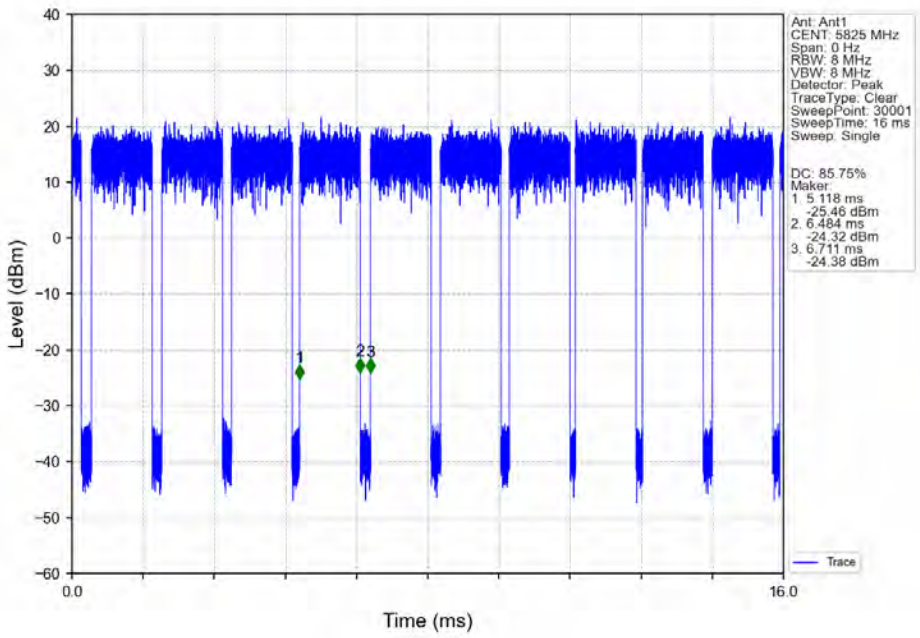
802.11a_LCH_5745MHz_Ant1_NTNV



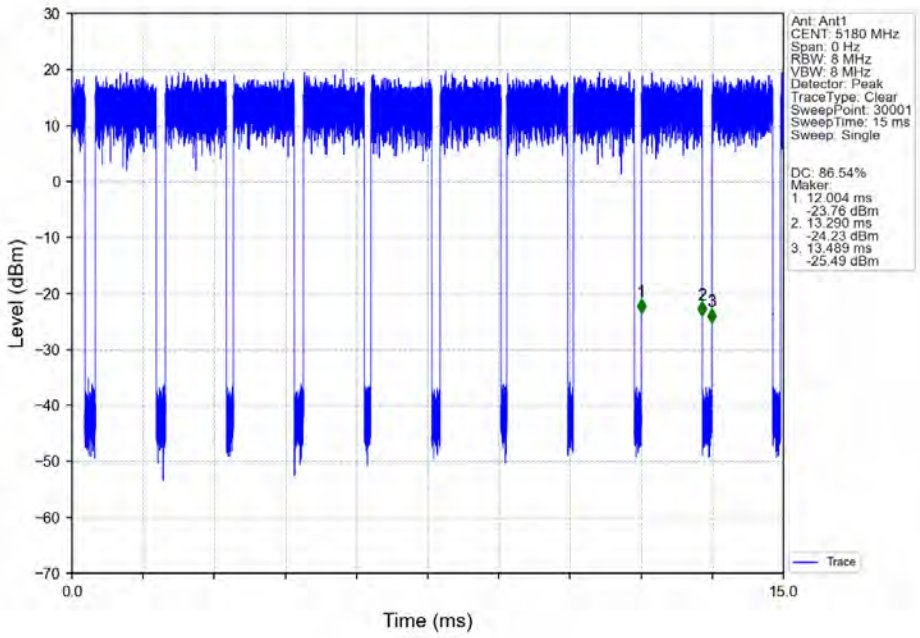
802.11a_MCH_5785MHz_Ant1_NTNV



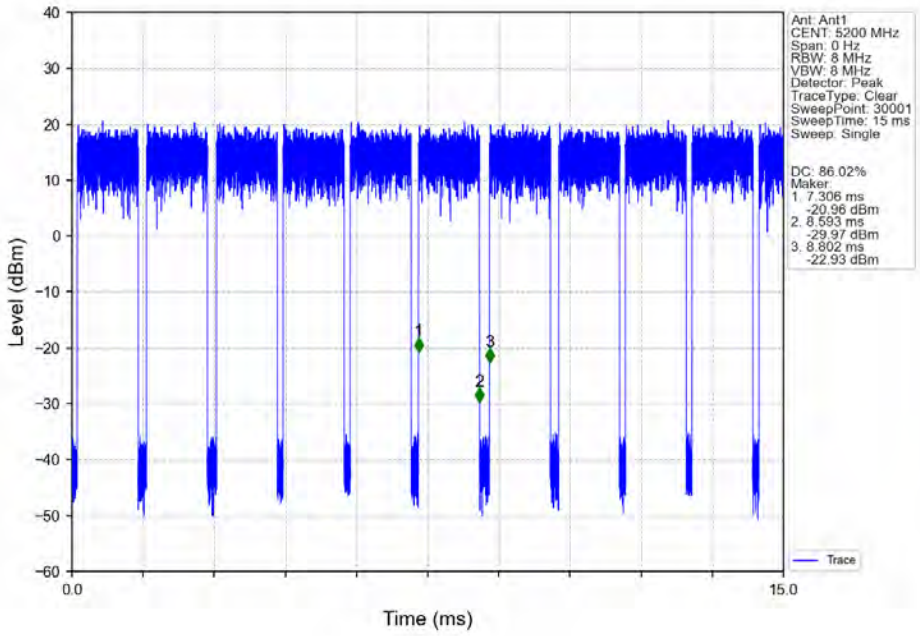
802.11a_HCH_5825MHz_Ant1_NTNV



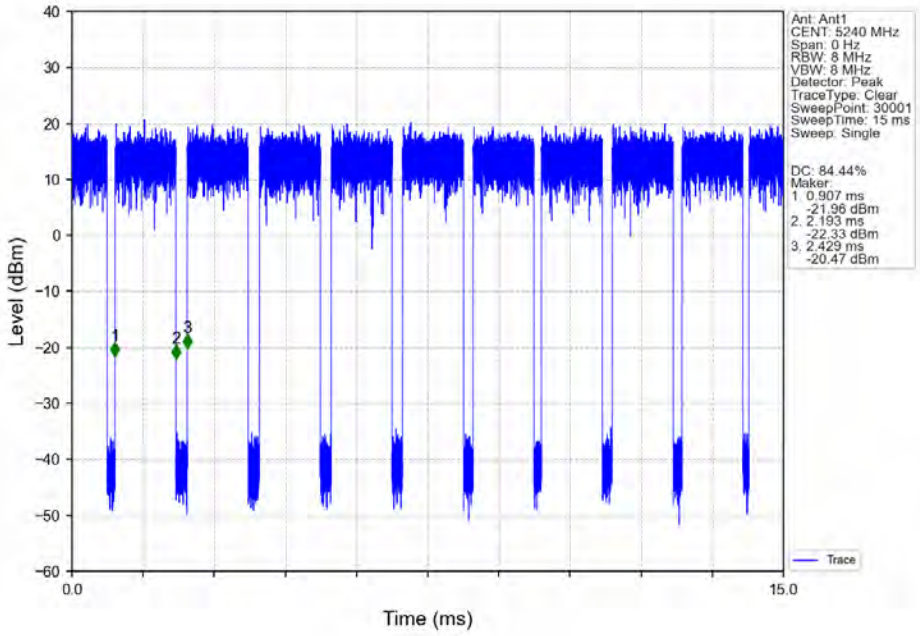
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



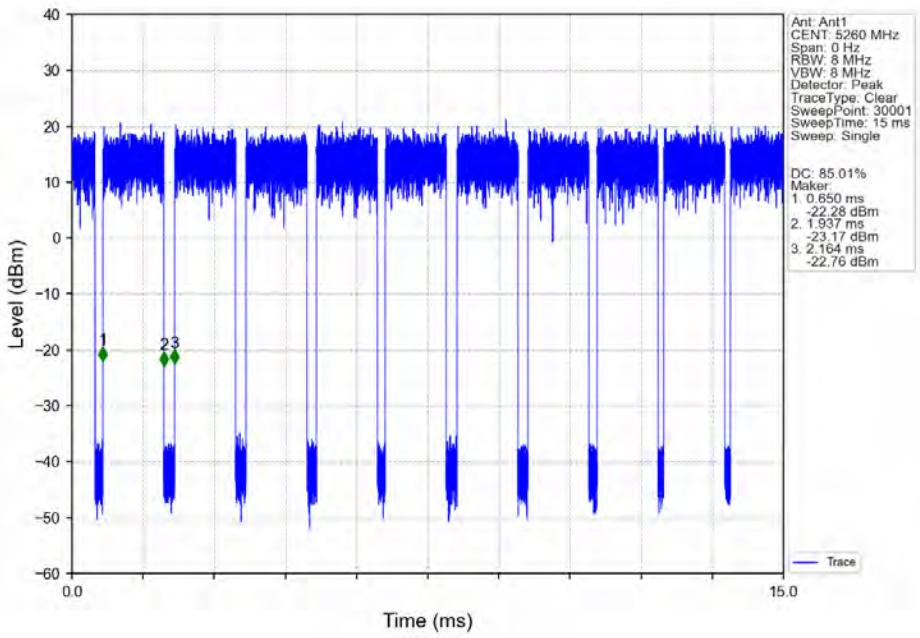
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



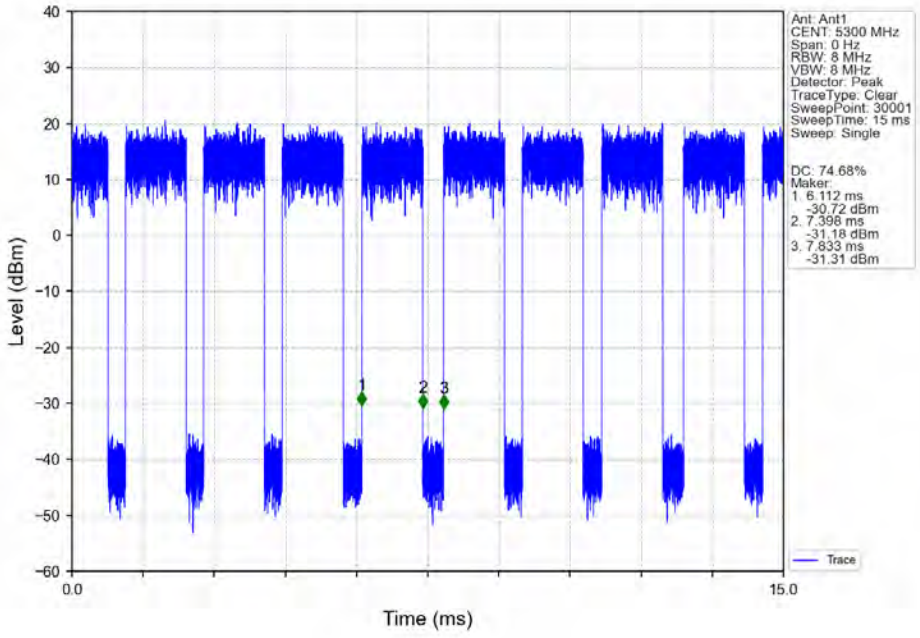
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



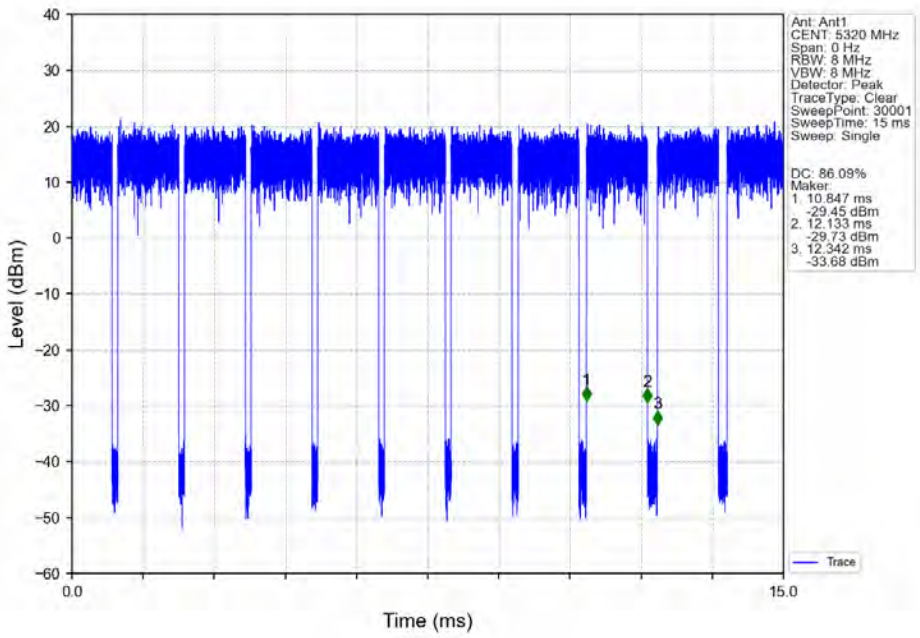
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



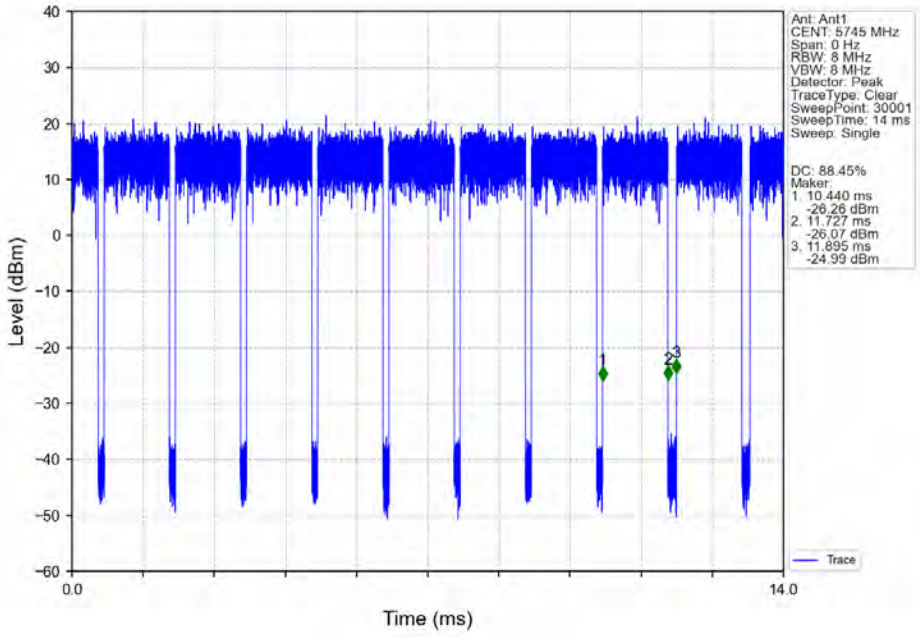
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



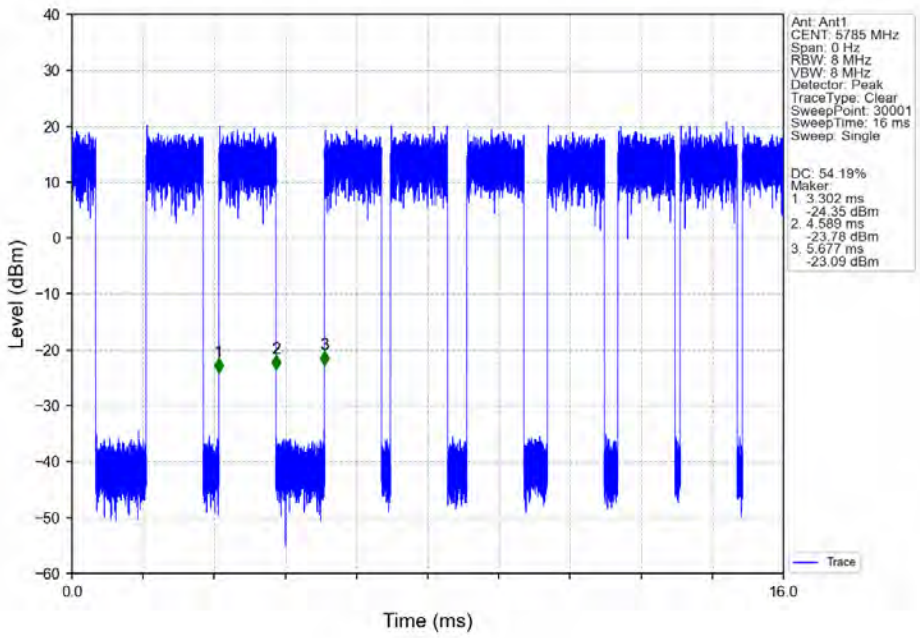
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



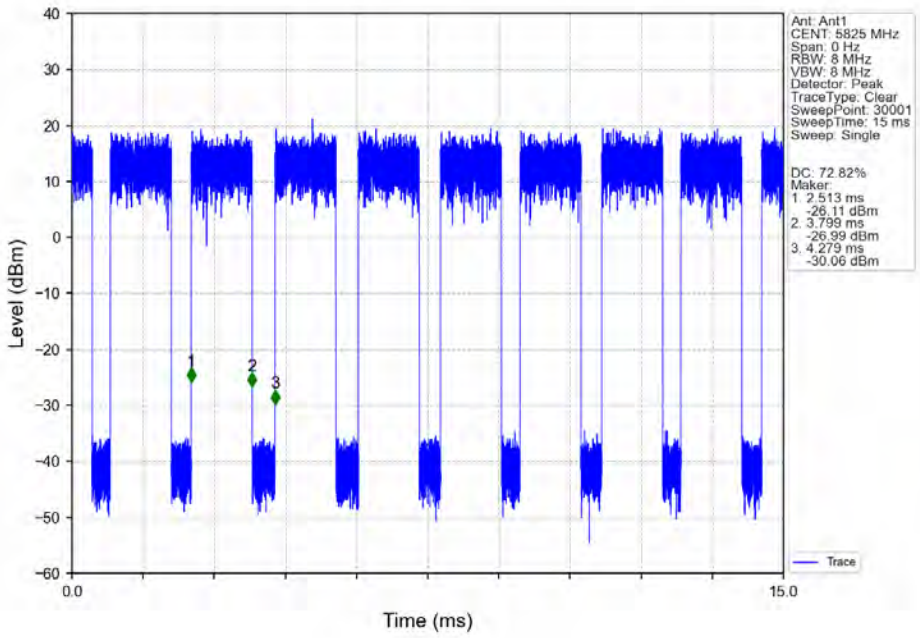
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



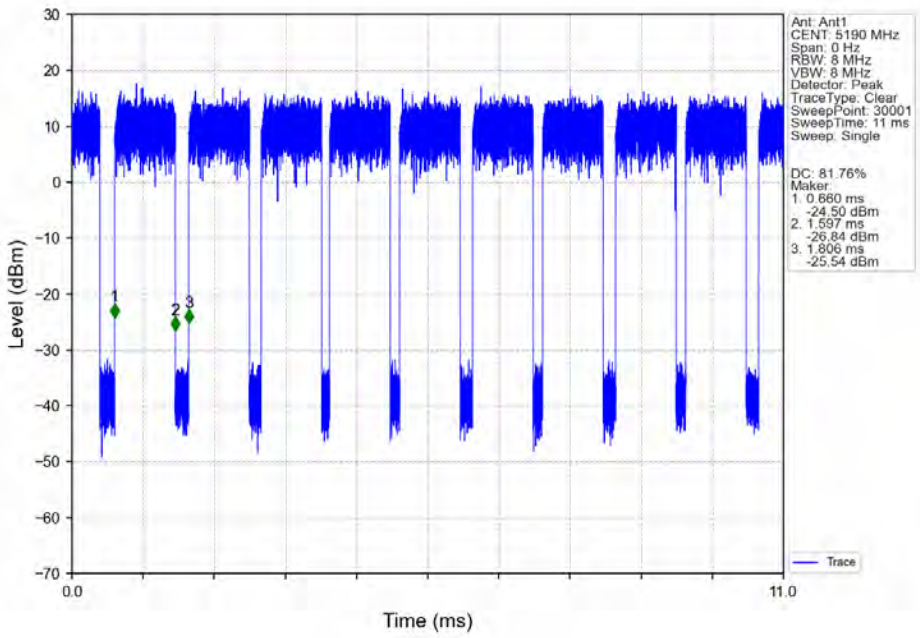
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



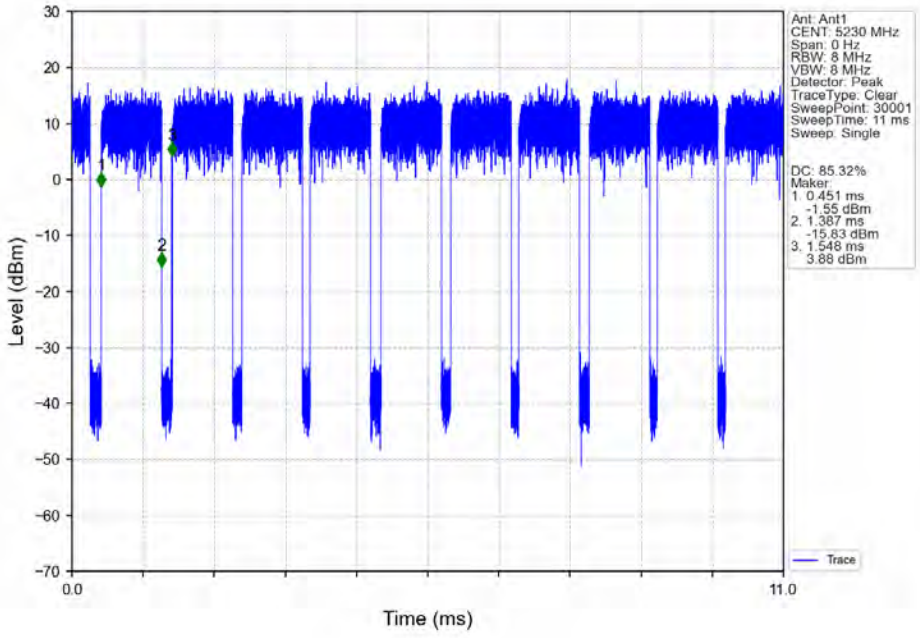
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



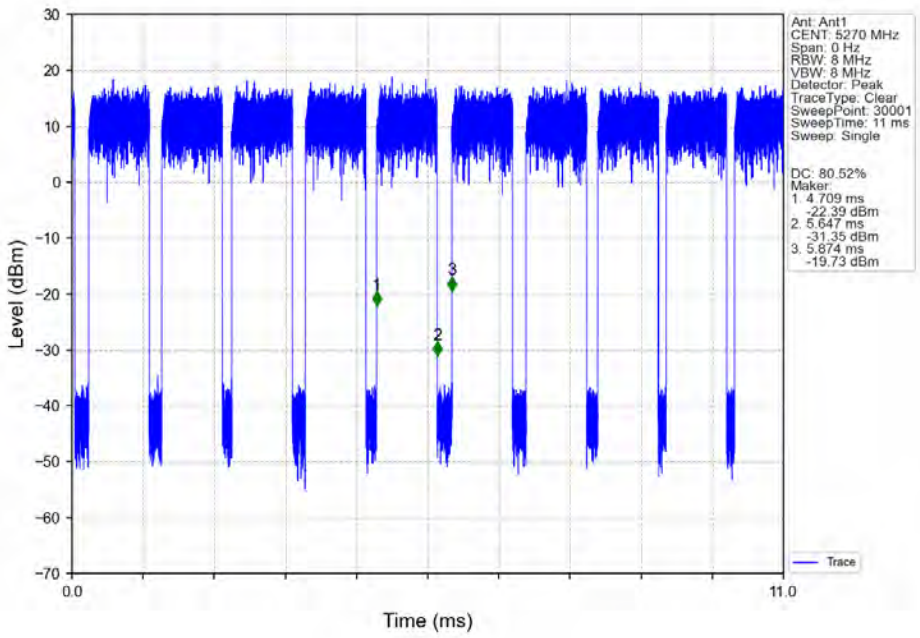
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



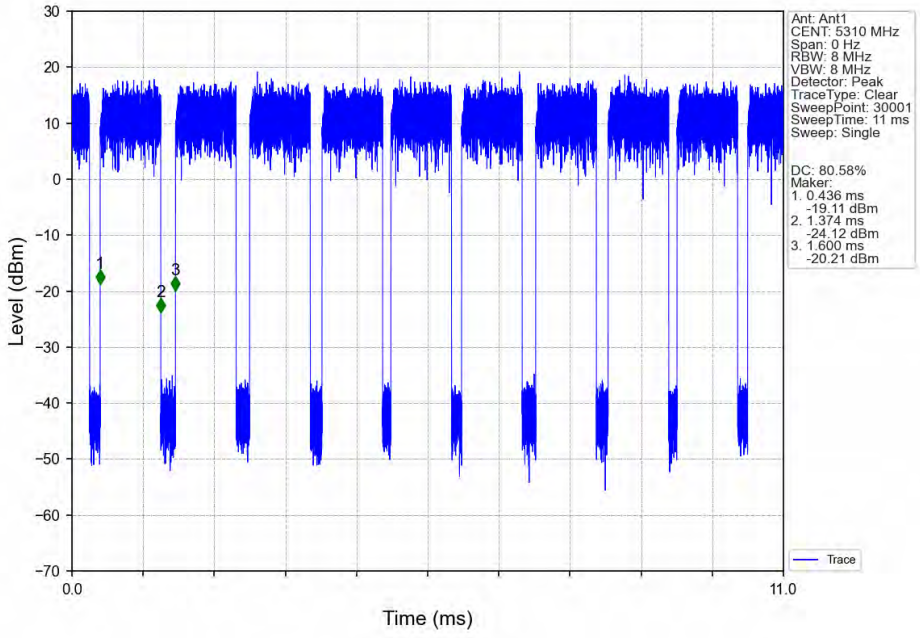
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



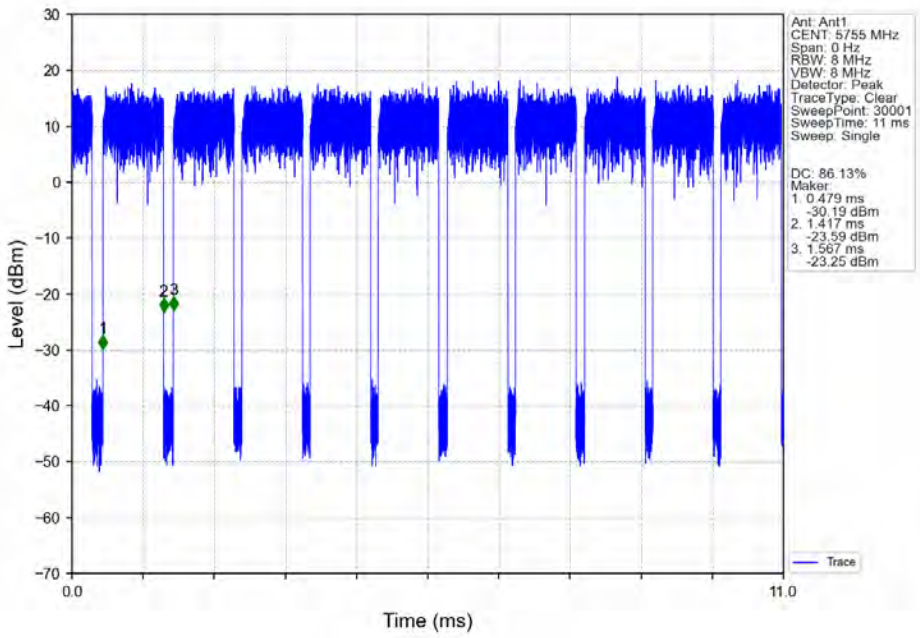
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



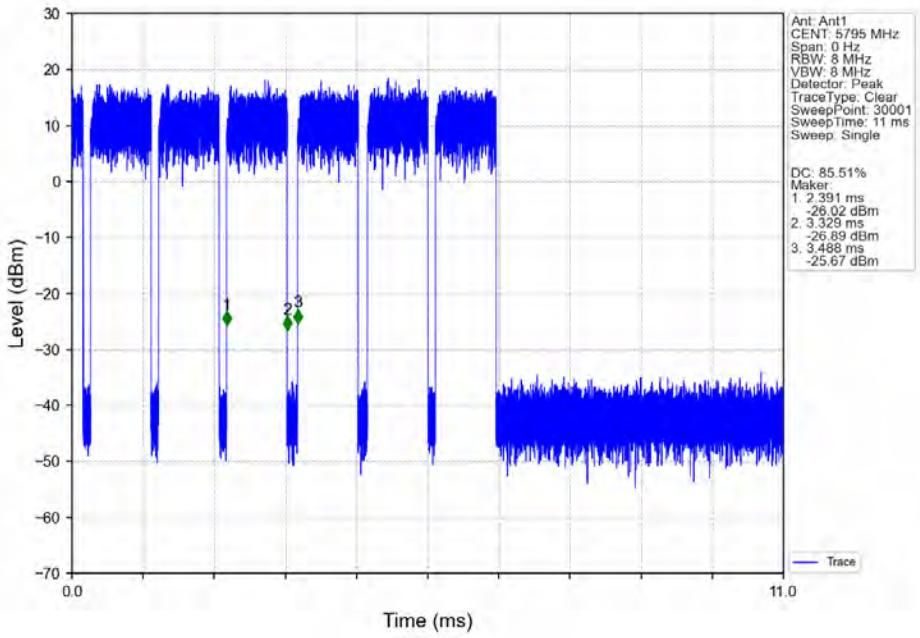
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



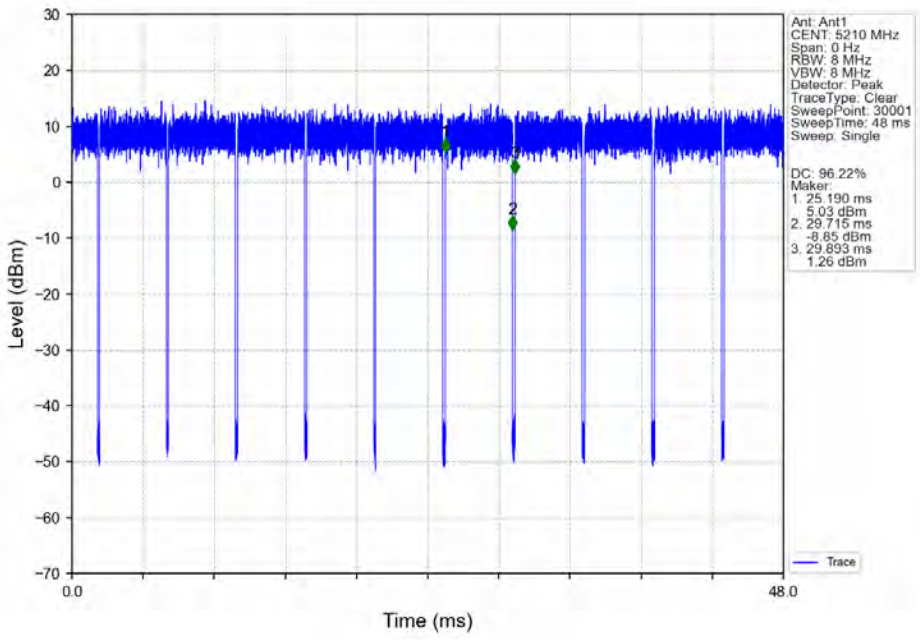
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



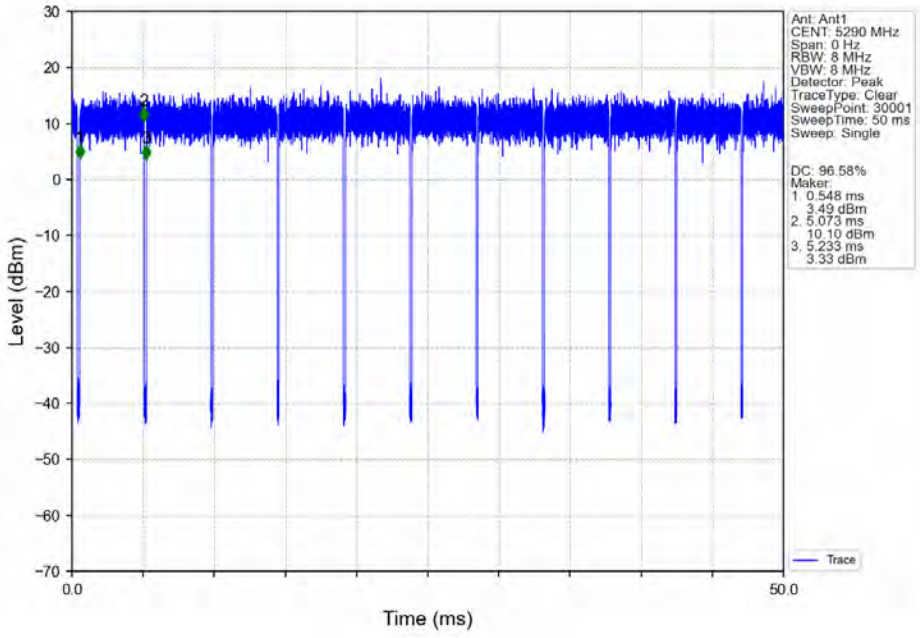
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



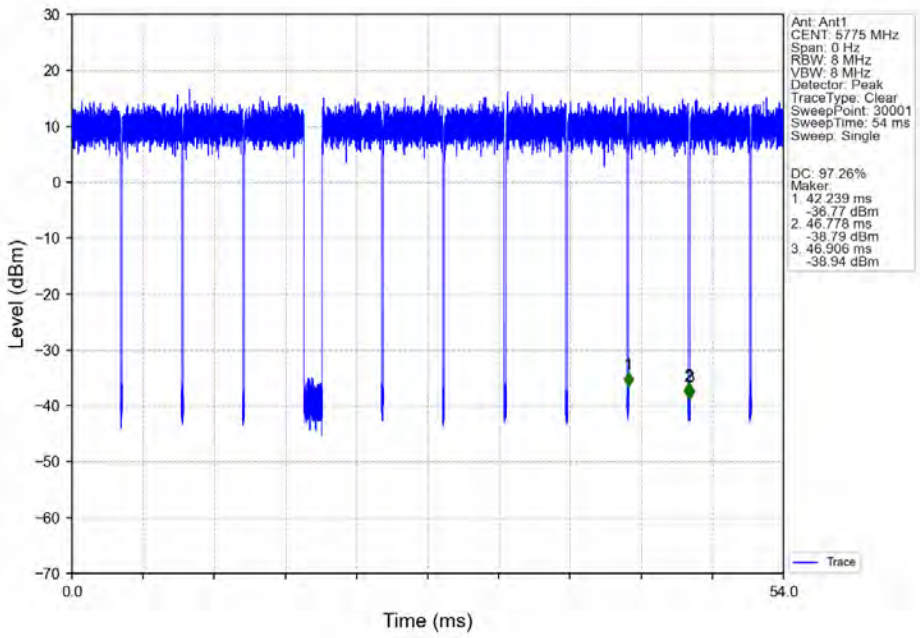
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



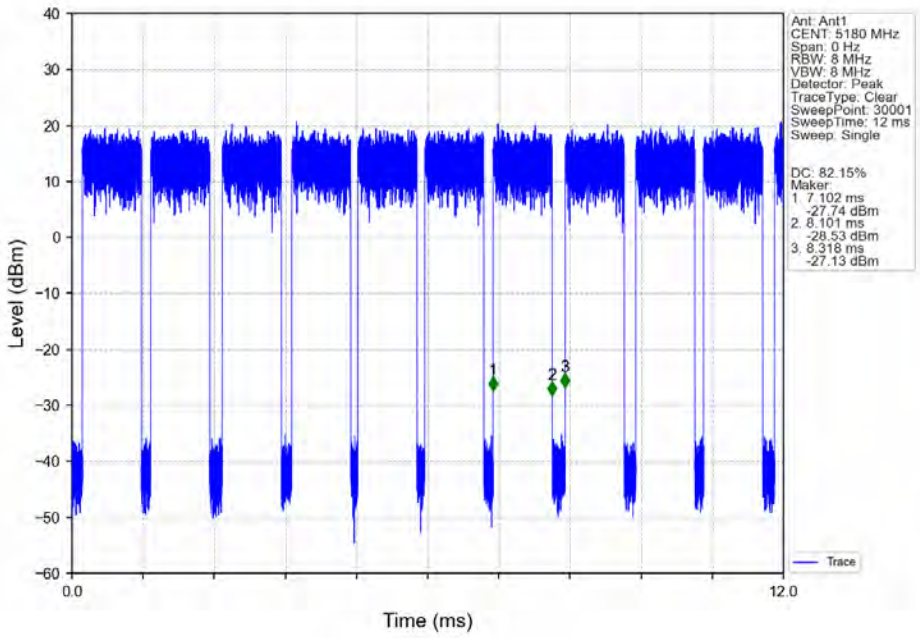
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



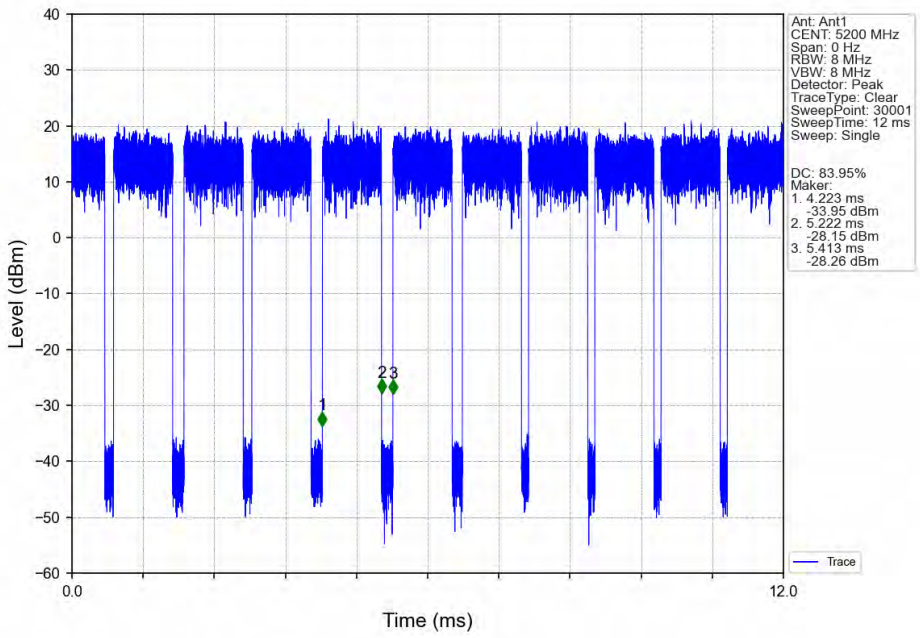
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



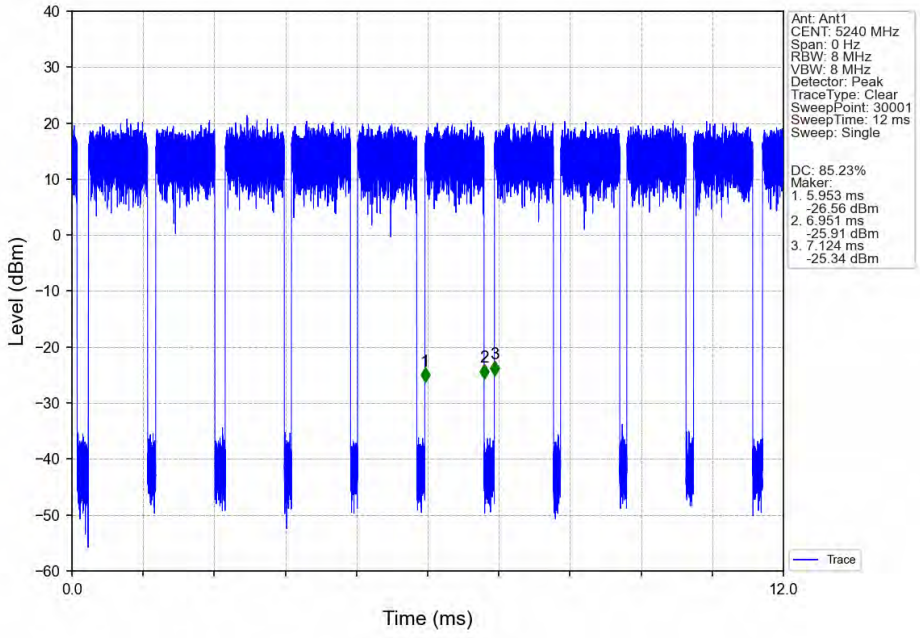
802.11ax(HE20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



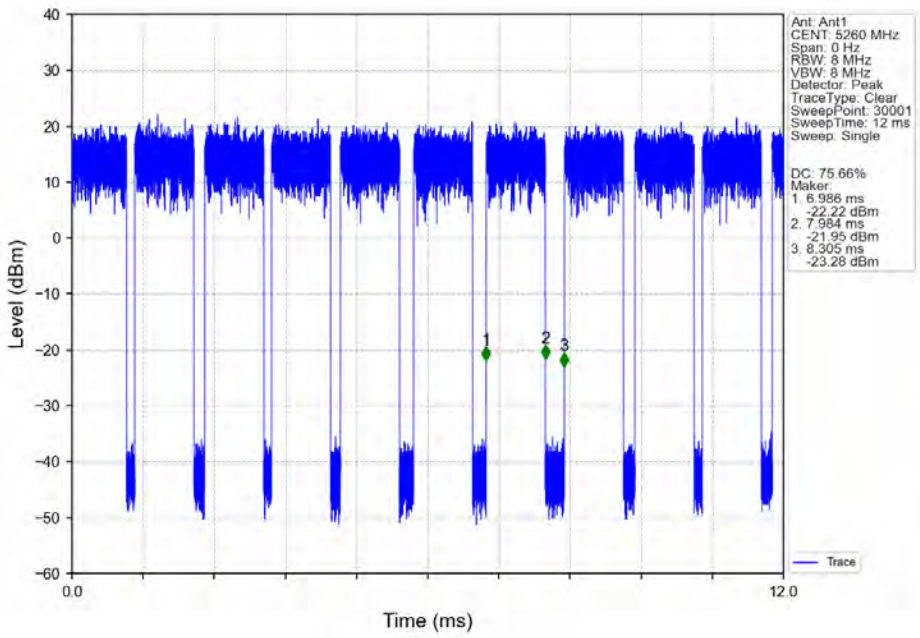
802.11ax(HE20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



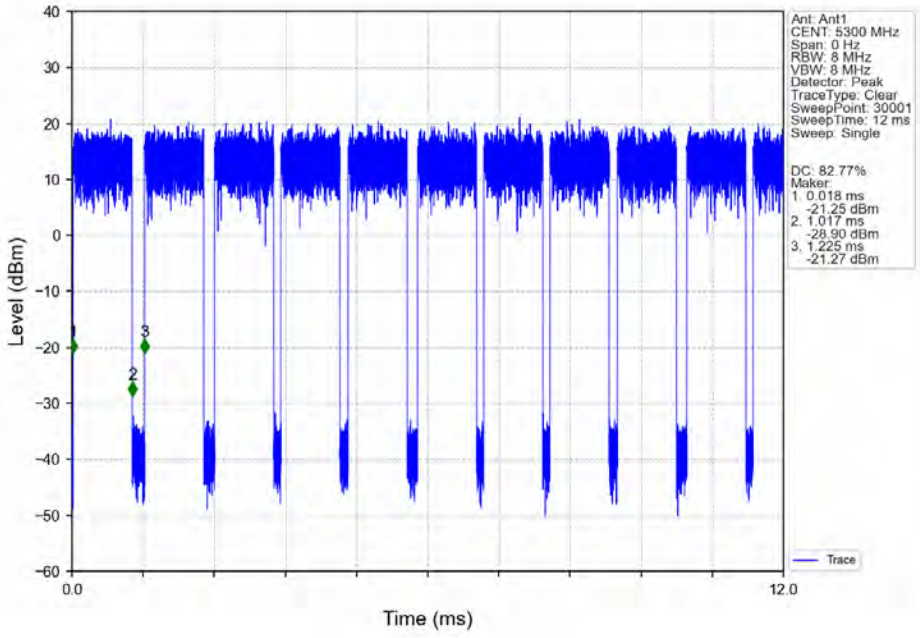
802.11ax(HE20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



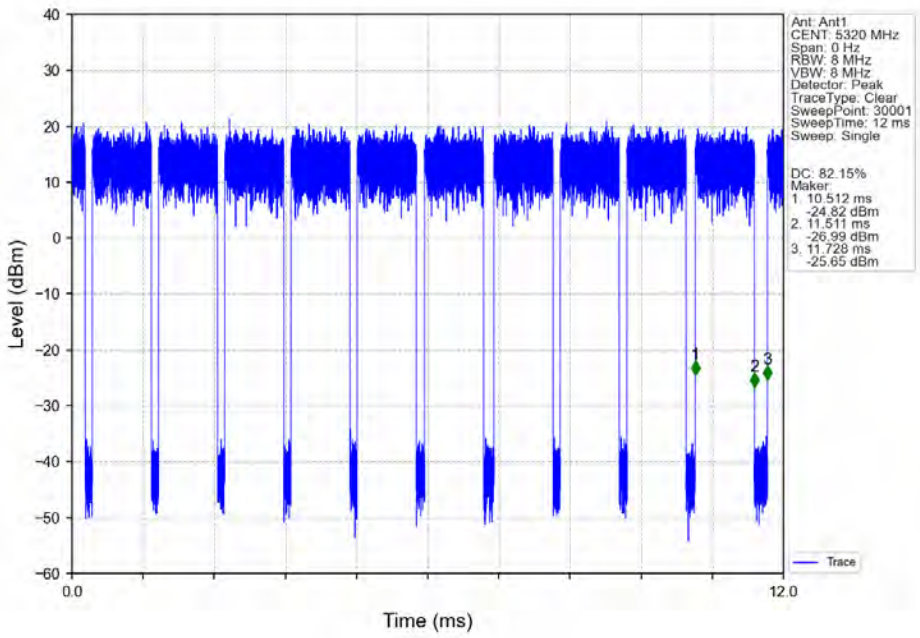
802.11ax(HE20)_LCH_5260MHz_RU242_Left_Ant1_NTNV



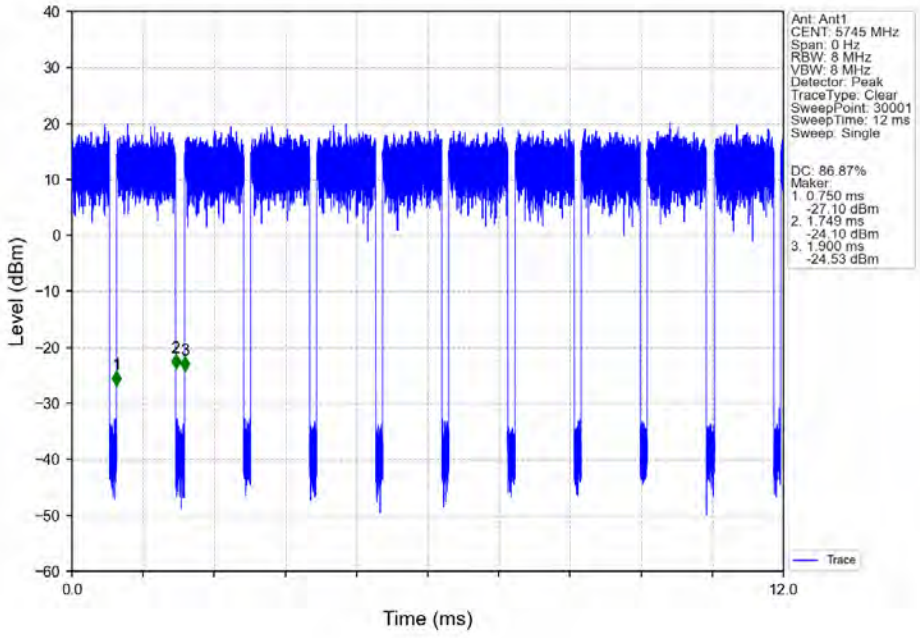
802.11ax(HE20)_MCH_5300MHz_RU242_Left_Ant1_NTNV



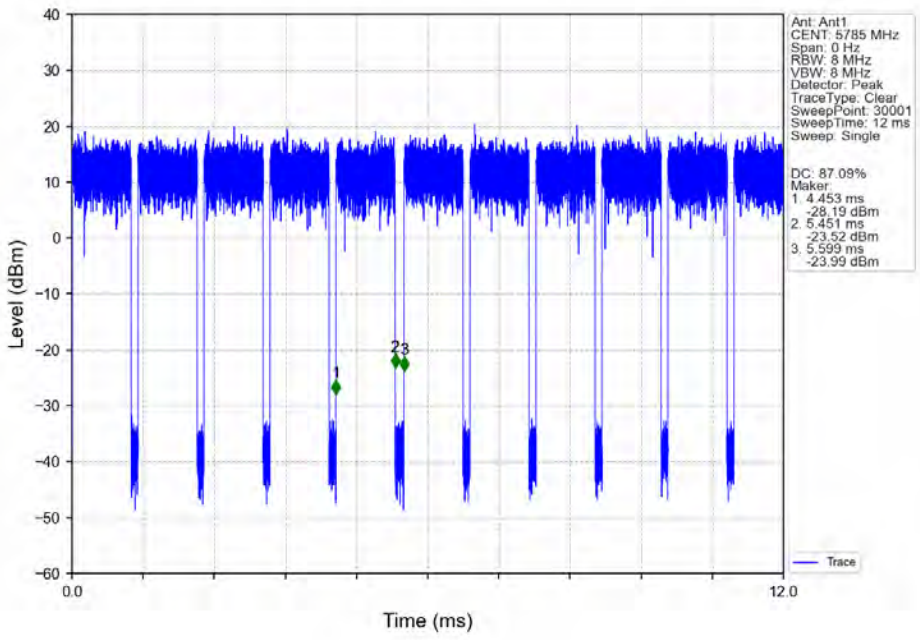
802.11ax(HE20)_HCH_5320MHz_RU242_Left_Ant1_NTNV



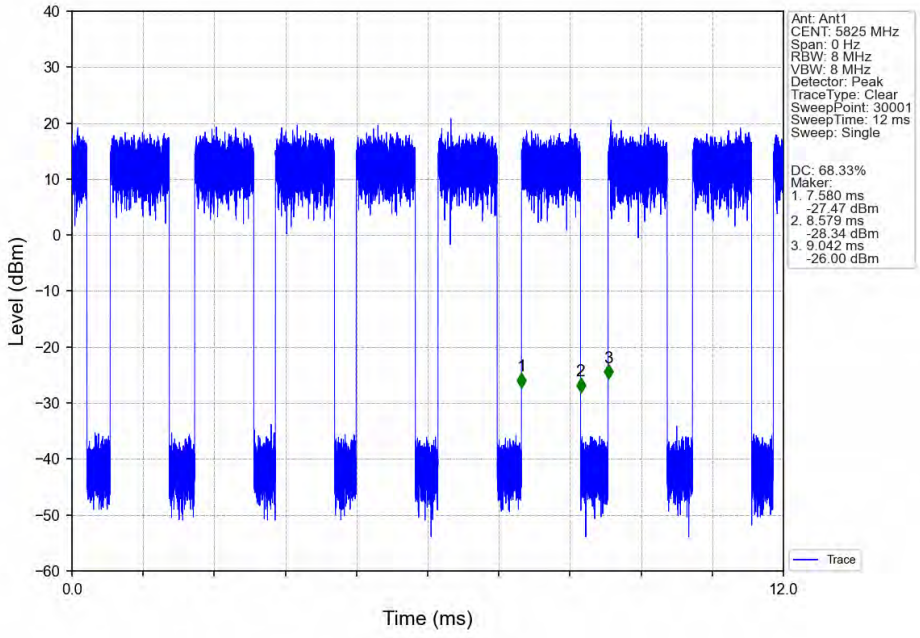
802.11ax(HE20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



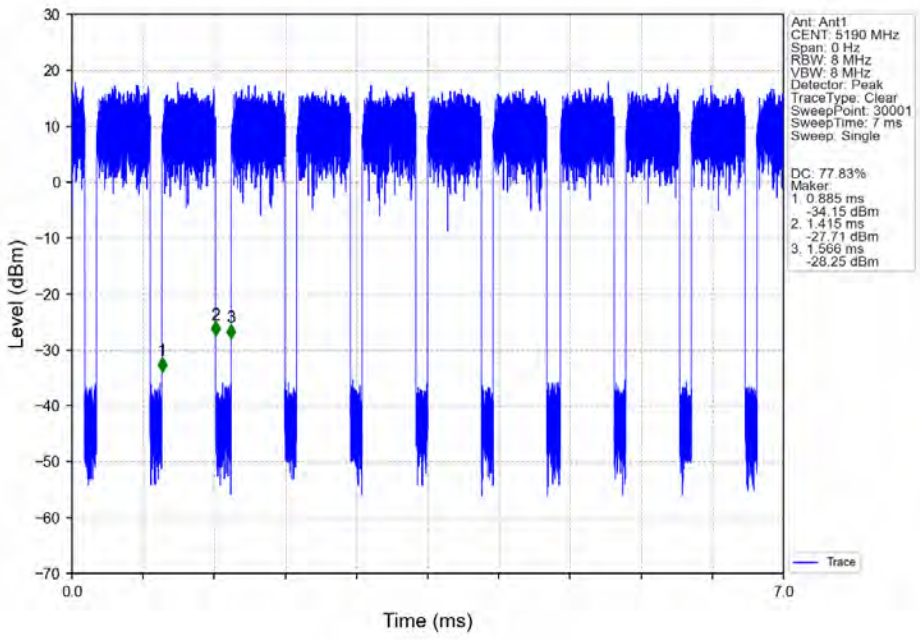
802.11ax(HE20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



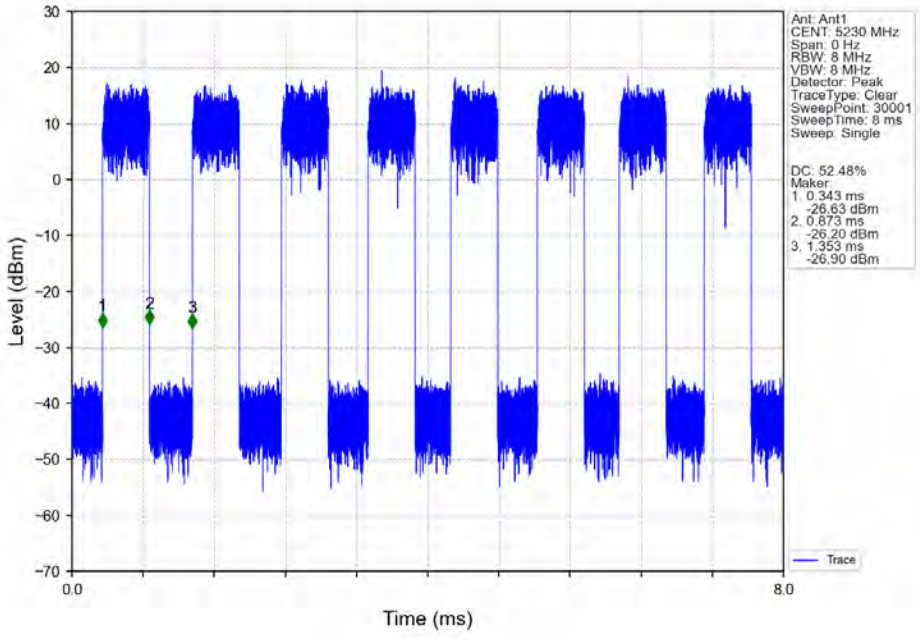
802.11ax(HE20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



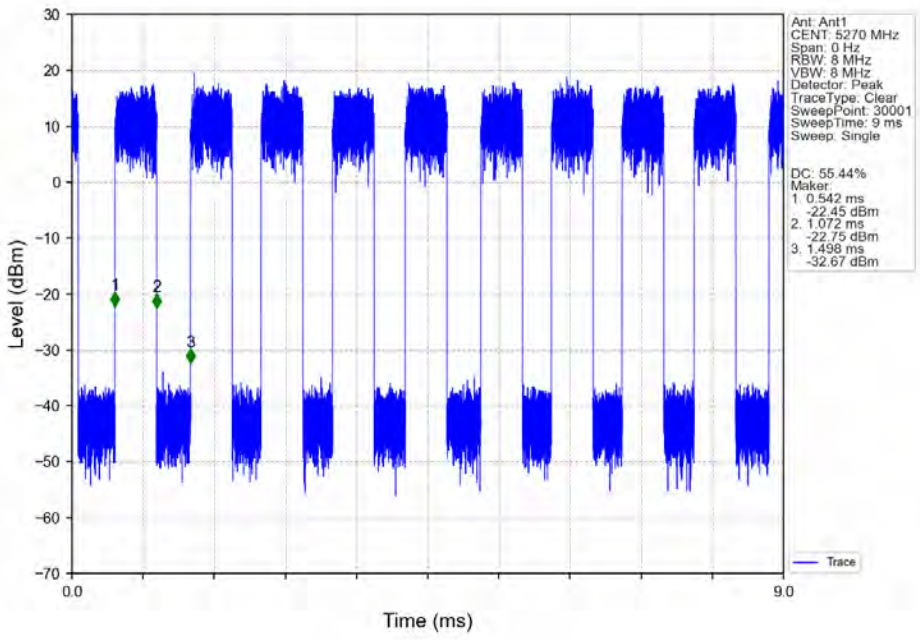
802.11ax(HE40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



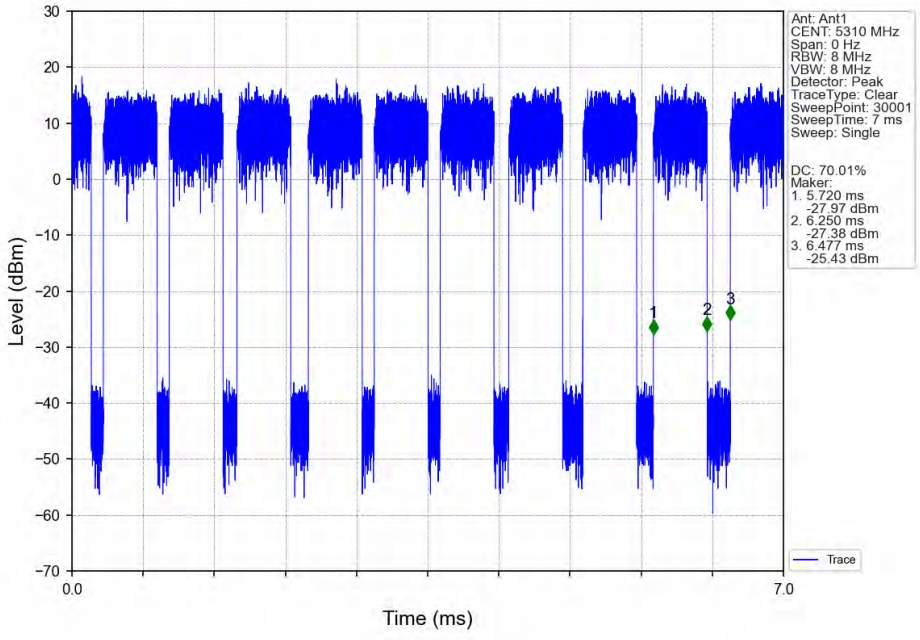
802.11ax(HE40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



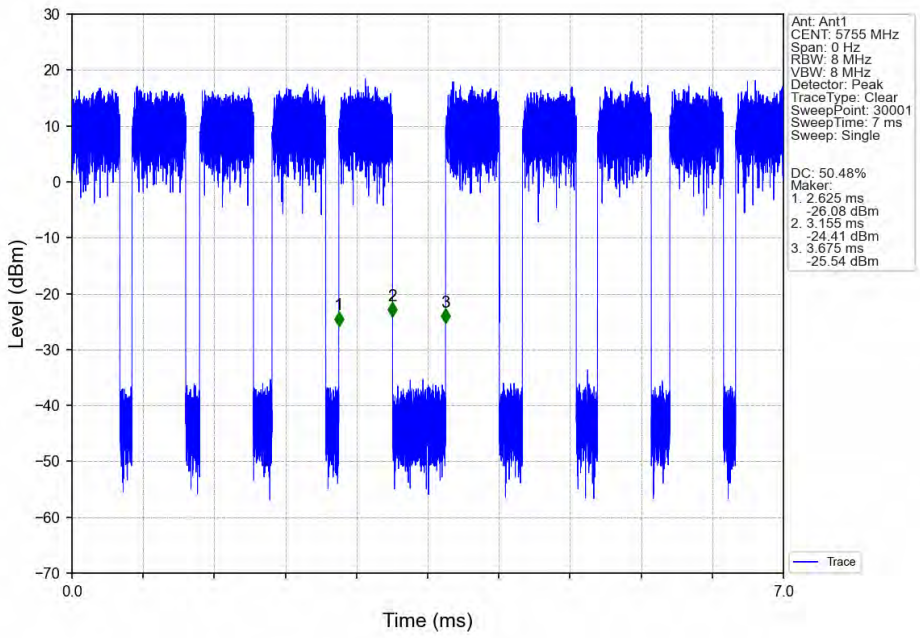
802.11ax(HE40)_LCH_5270MHz_RU484_Left_Ant1_NTNV



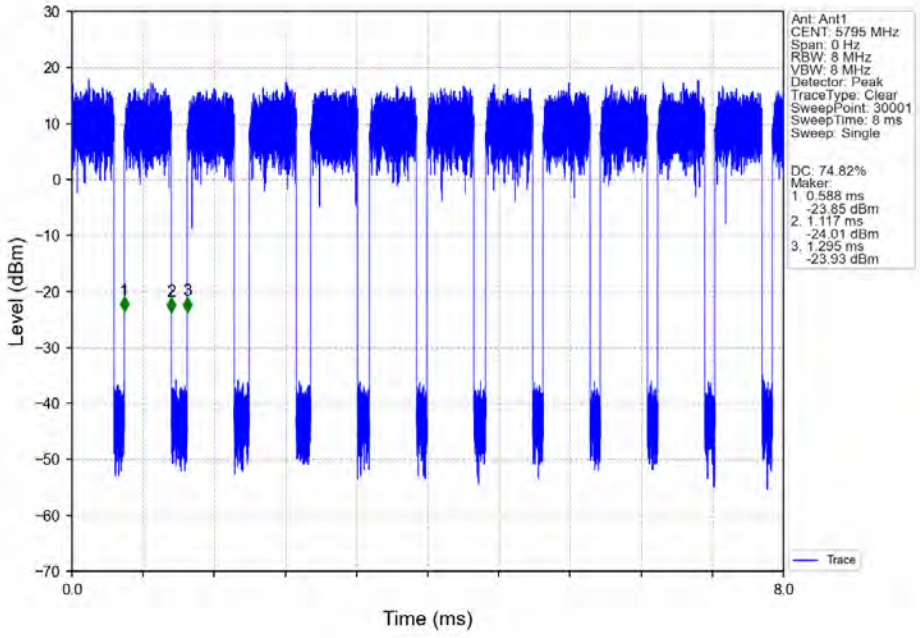
802.11ax(HE40)_HCH_5310MHz_RU484_Left_Ant1_NTNV



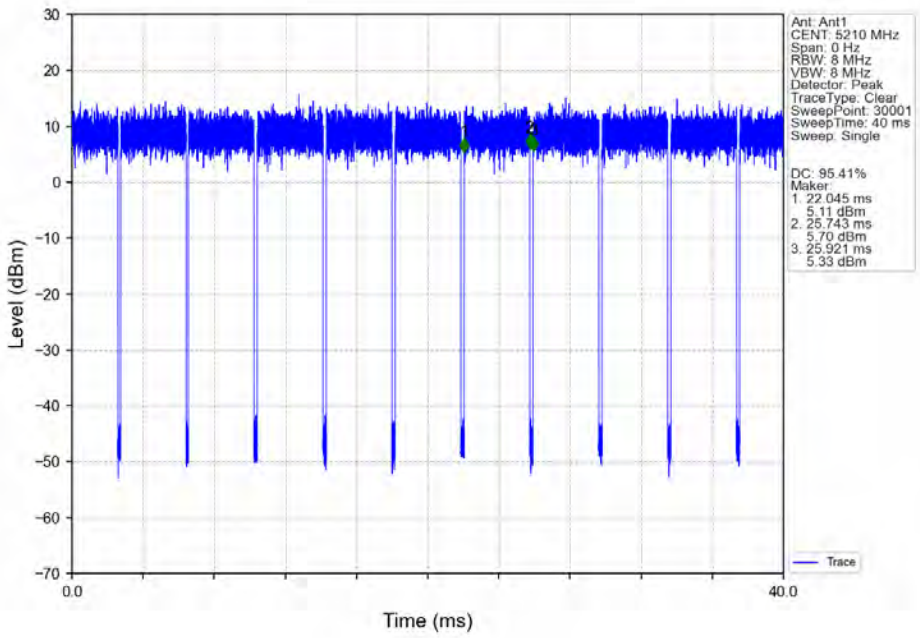
802.11ax(HE40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



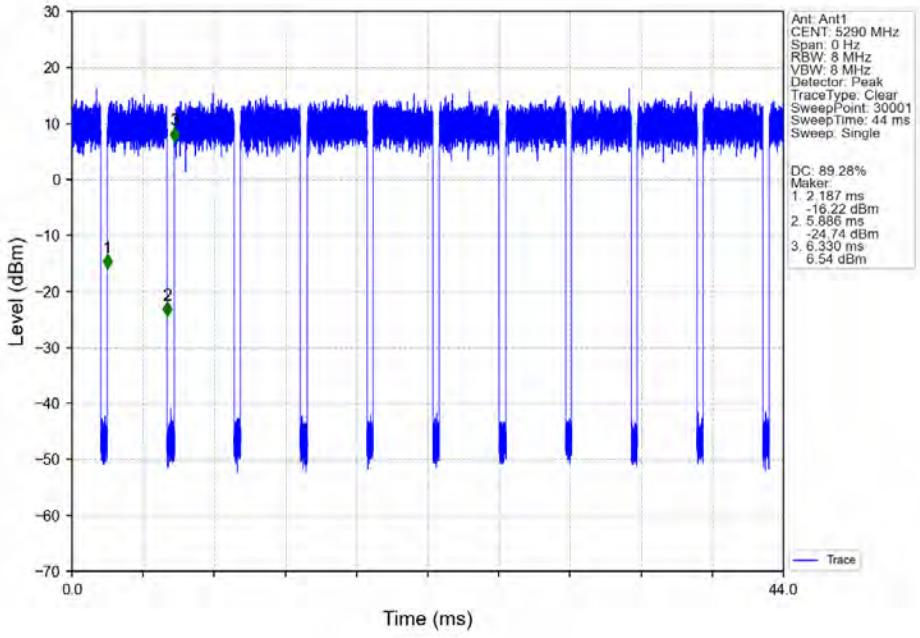
802.11ax(HE40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



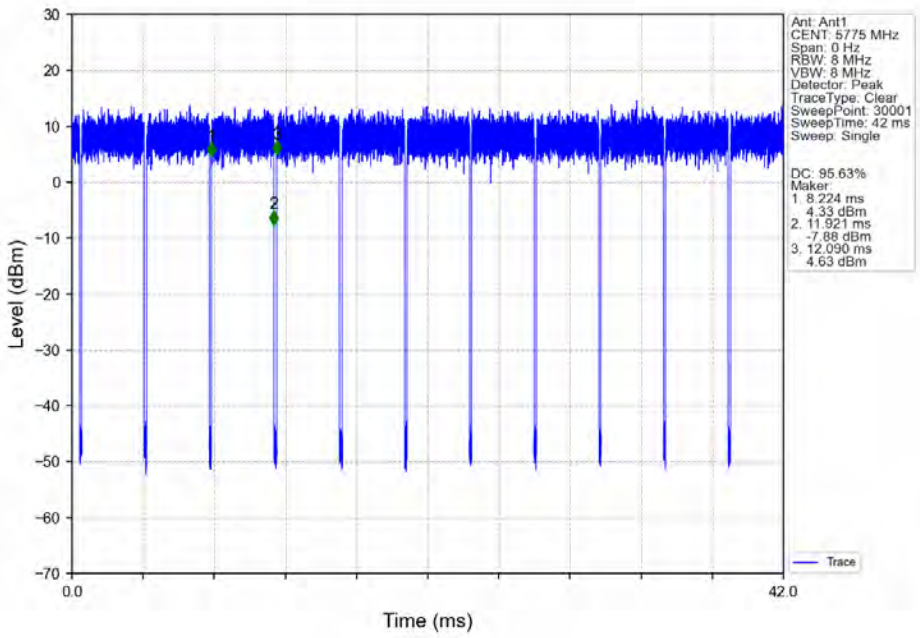
802.11ax(HE80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



802.11ax(HE80)_MCH_5290MHz_RU996_Left_Ant1_NTNV



802.11ax(HE80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	19.116	/	Pass
		5200	/	/	1	18.879	/	Pass
		5240	/	/	1	18.941	/	Pass
		5260	/	/	1	18.900	/	Pass
		5300	/	/	1	18.720	/	Pass
		5320	/	/	1	18.611	/	Pass
		5745	/	/	1	19.533	/	Pass
		5785	/	/	1	19.726	/	Pass
		5825	/	/	1	19.243	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	19.729	/	Pass
		5200	/	/	1	19.587	/	Pass
		5240	/	/	1	19.747	/	Pass
		5260	/	/	1	19.760	/	Pass
		5300	/	/	1	19.729	/	Pass
		5320	/	/	1	19.734	/	Pass
		5745	/	/	1	20.276	/	Pass
		5785	/	/	1	20.112	/	Pass
		5825	/	/	1	20.206	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	37.457	/	Pass
		5230	/	/	1	37.501	/	Pass
		5270	/	/	1	37.836	/	Pass
		5310	/	/	1	37.849	/	Pass
		5755	/	/	1	38.516	/	Pass
		5795	/	/	1	38.529	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	77.645	/	Pass
		5290	/	/	1	77.535	/	Pass
		5775	/	/	1	78.777	/	Pass
802.11ax (HE20)	SISO	5180	RU242	Left	1	20.112	/	Pass
		5200	RU242	Left	1	20.098	/	Pass
		5240	RU242	Left	1	20.144	/	Pass
		5260	RU242	Left	1	20.065	/	Pass
		5300	RU242	Left	1	20.117	/	Pass
		5320	RU242	Left	1	20.058	/	Pass
		5745	RU242	Left	1	20.323	/	Pass
		5785	RU242	Left	1	20.354	/	Pass

		5825	RU242	Left	1	20.351	/	Pass
802.11ax (HE40)	SISO	5190	RU484	Left	1	39.405	/	Pass
		5230	RU484	Left	1	39.263	/	Pass
		5270	RU484	Left	1	39.231	/	Pass
		5310	RU484	Left	1	38.877	/	Pass
		5755	RU484	Left	1	39.803	/	Pass
		5795	RU484	Left	1	39.790	/	Pass
802.11ax (HE80)	SISO	5210	RU996	Left	1	78.870	/	Pass
		5290	RU996	Left	1	78.522	/	Pass
		5775	RU996	Left	1	79.363	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.418	>=0.5	Pass
		5785	/	/	1	16.410	>=0.5	Pass
		5825	/	/	1	16.413	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.653	>=0.5	Pass
		5785	/	/	1	17.669	>=0.5	Pass
		5825	/	/	1	17.646	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.413	>=0.5	Pass
		5795	/	/	1	36.390	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	76.359	>=0.5	Pass
802.11ax (HE20)	SISO	5745	RU242	Left	1	19.068	>=0.5	Pass
		5785	RU242	Left	1	19.026	>=0.5	Pass
		5825	RU242	Left	1	19.021	>=0.5	Pass
802.11ax (HE40)	SISO	5755	RU484	Left	1	38.114	>=0.5	Pass
		5795	RU484	Left	1	38.110	>=0.5	Pass
802.11ax (HE80)	SISO	5775	RU996	Left	1	78.033	>=0.5	Pass

2.1.3 26dB BW

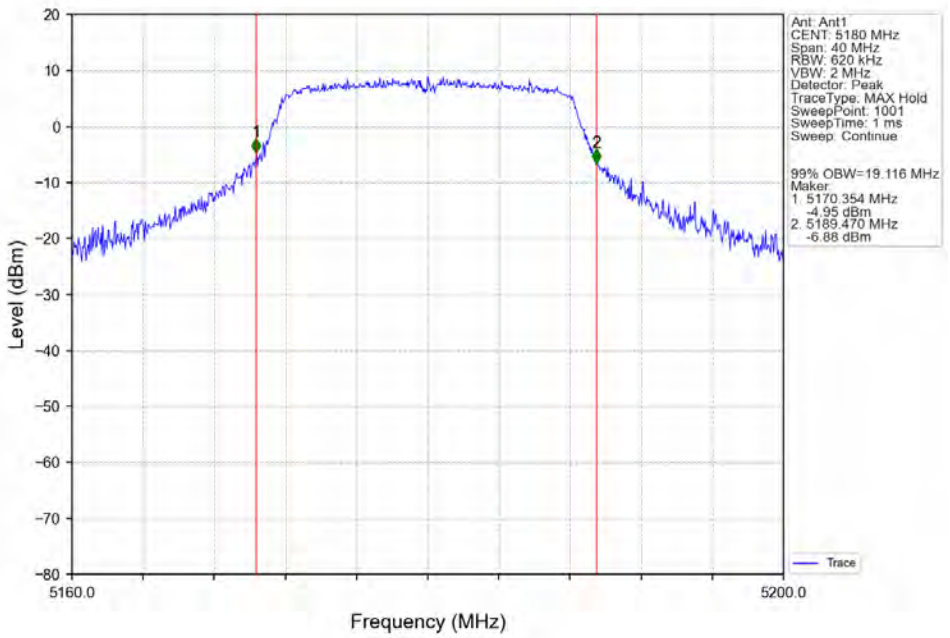
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	25.895	/	Pass
		5200	/	/	1	27.946	/	Pass
		5240	/	/	1	28.156	/	Pass
		5260	/	/	1	26.972	/	Pass
		5300	/	/	1	24.619	/	Pass
		5320	/	/	1	24.273	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	24.998	/	Pass
		5200	/	/	1	26.390	/	Pass

		5240	/	/	1	24.998	/	Pass
		5260	/	/	1	24.976	/	Pass
		5300	/	/	1	24.880	/	Pass
		5320	/	/	1	24.959	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	44.632	/	Pass
		5230	/	/	1	45.079	/	Pass
		5270	/	/	1	48.080	/	Pass
		5310	/	/	1	46.344	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	106.991	/	Pass
		5290	/	/	1	88.061	/	Pass
802.11ax (HE20)	SISO	5180	RU242	Left	1	25.173	/	Pass
		5200	RU242	Left	1	26.330	/	Pass
		5240	RU242	Left	1	24.967	/	Pass
		5260	RU242	Left	1	24.220	/	Pass
		5300	RU242	Left	1	24.963	/	Pass
		5320	RU242	Left	1	25.331	/	Pass
802.11ax (HE40)	SISO	5190	RU484	Left	1	53.829	/	Pass
		5230	RU484	Left	1	51.380	/	Pass
		5270	RU484	Left	1	52.253	/	Pass
		5310	RU484	Left	1	44.864	/	Pass
802.11ax (HE80)	SISO	5210	RU996	Left	1	85.829	/	Pass
		5290	RU996	Left	1	86.403	/	Pass

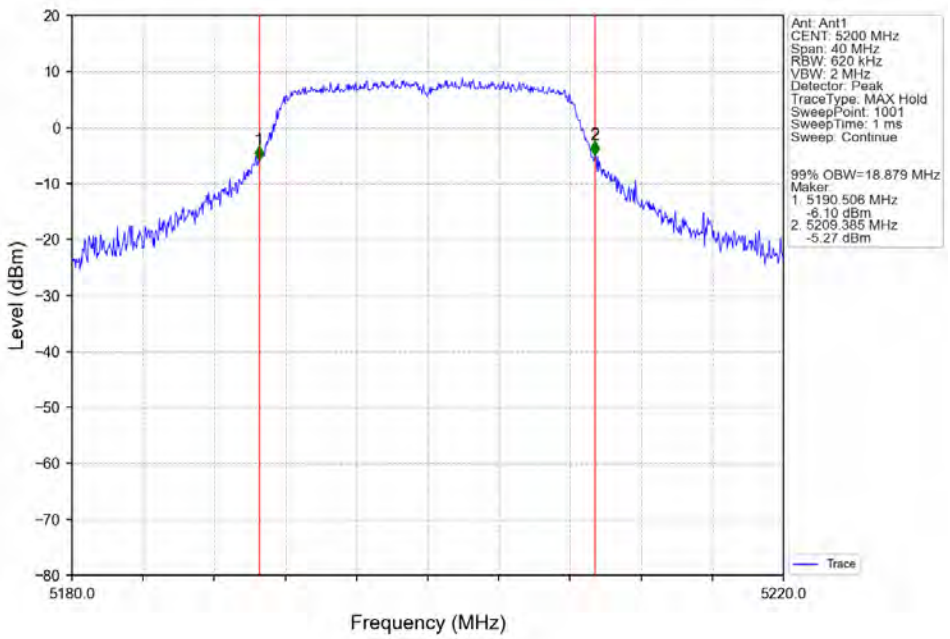
2.2 Test Graph

2.2.1 OBW

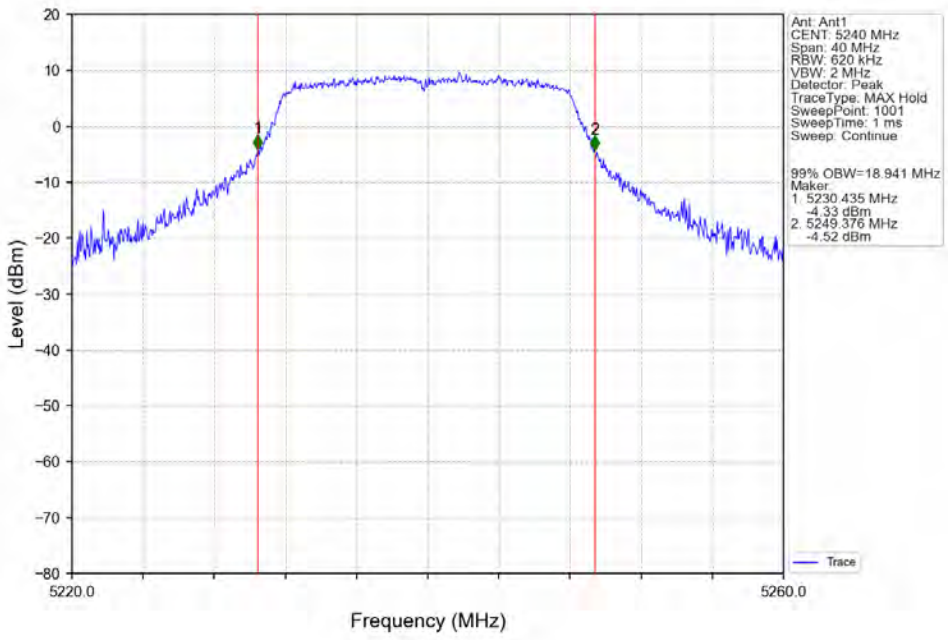
802.11a_LCH_5180MHz_Ant1_NTNV



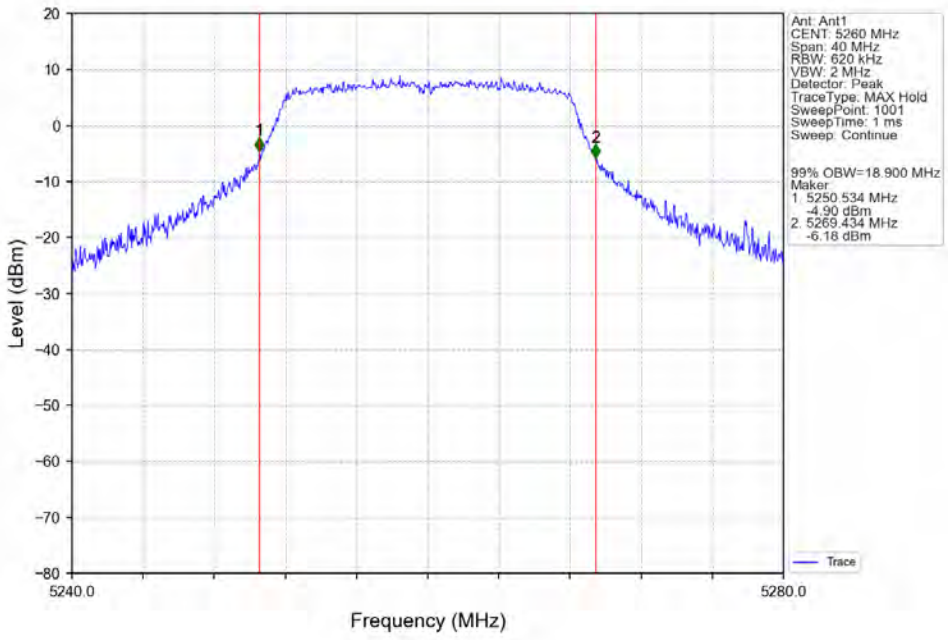
802.11a_MCH_5200MHz_Ant1_NTNV



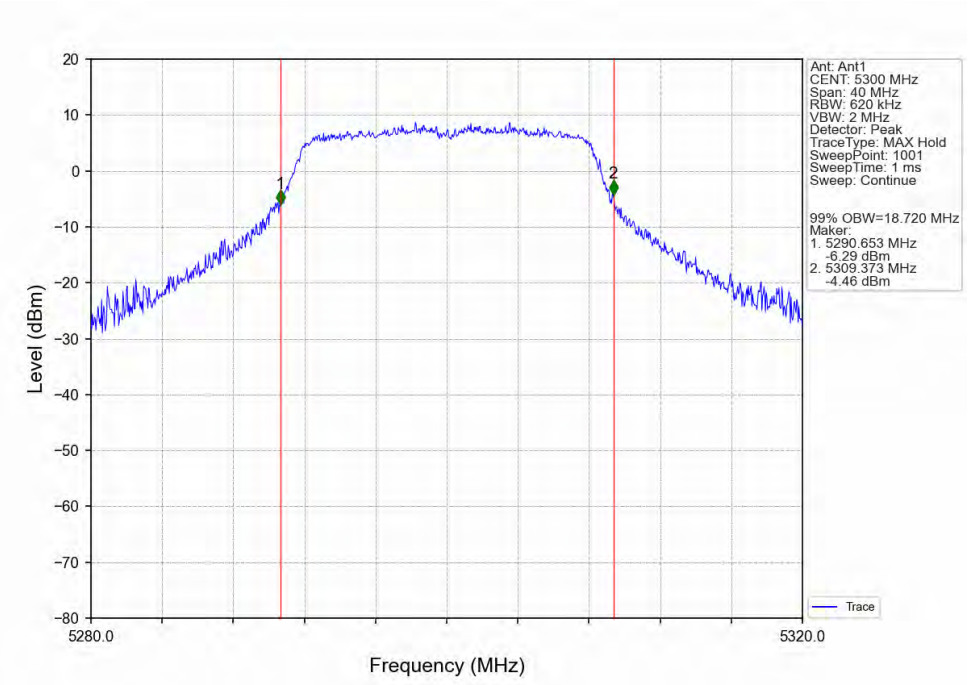
802.11a_HCH_5240MHz_Ant1_NTNV



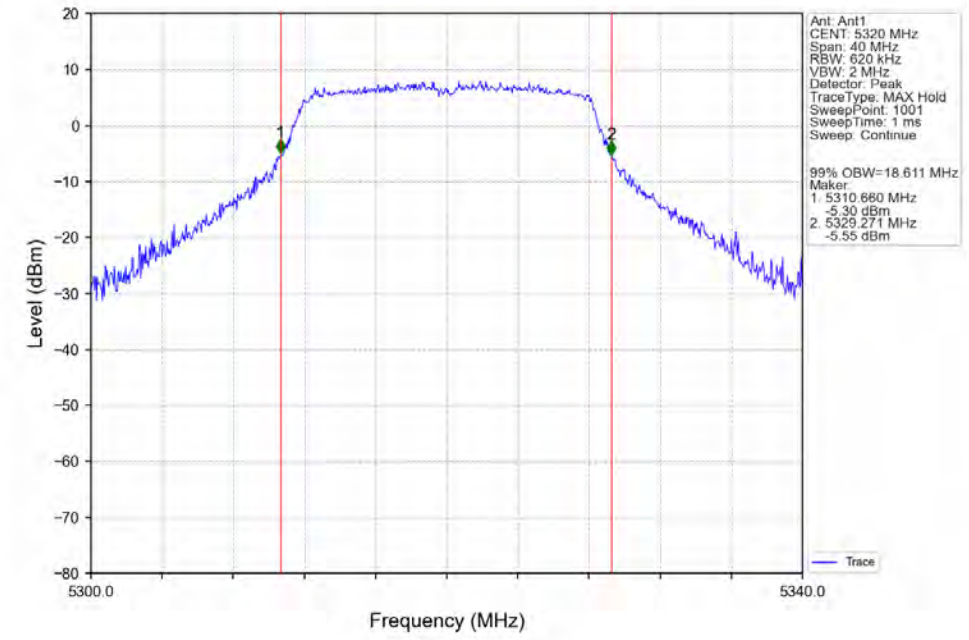
802.11a_LCH_5260MHz_Ant1_NTNV



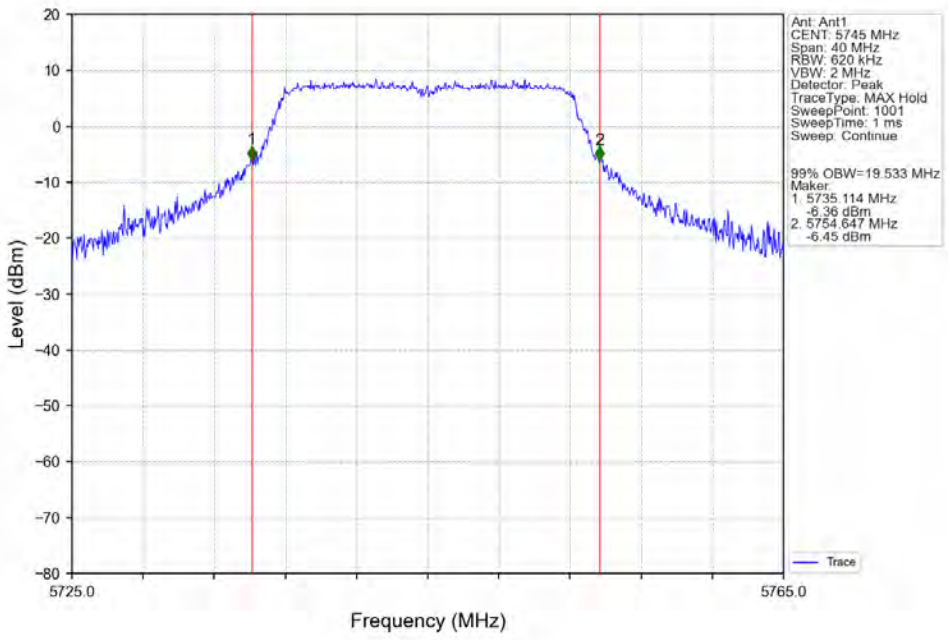
802.11a_MCH_5300MHz_Ant1_NTNV



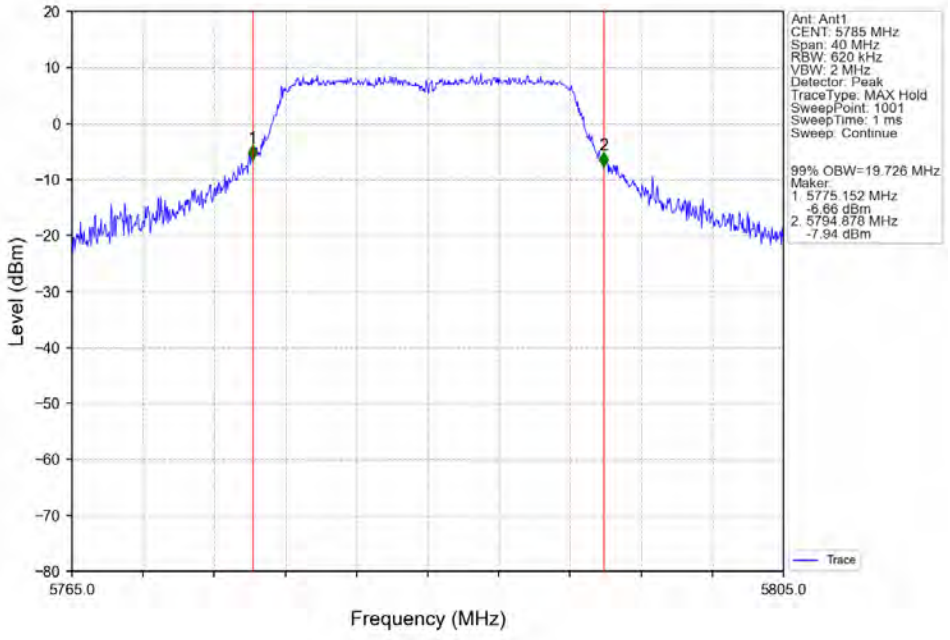
802.11a_HCH_5320MHz_Ant1_NTNV



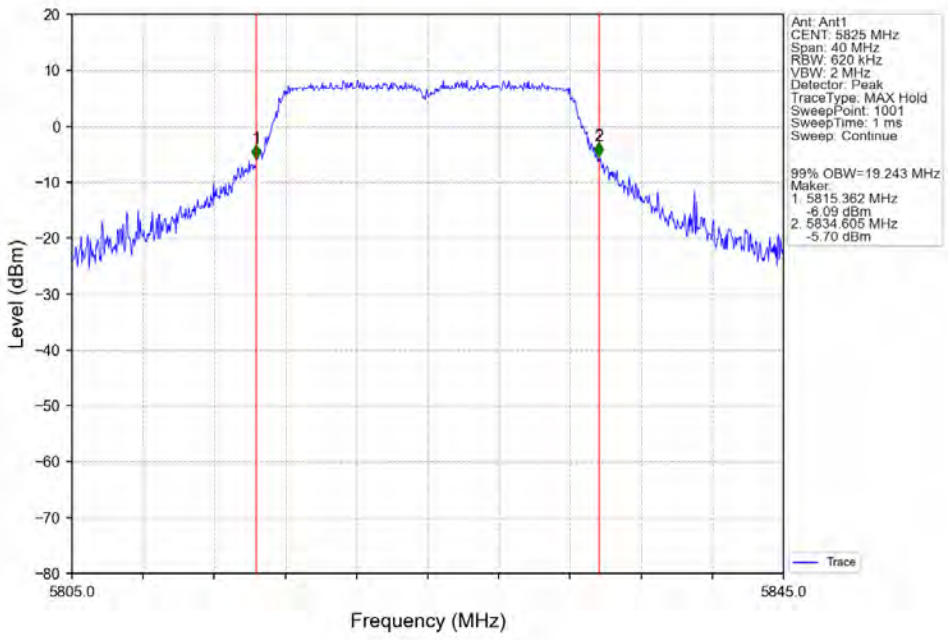
802.11a_LCH_5745MHz_Ant1_NTNV



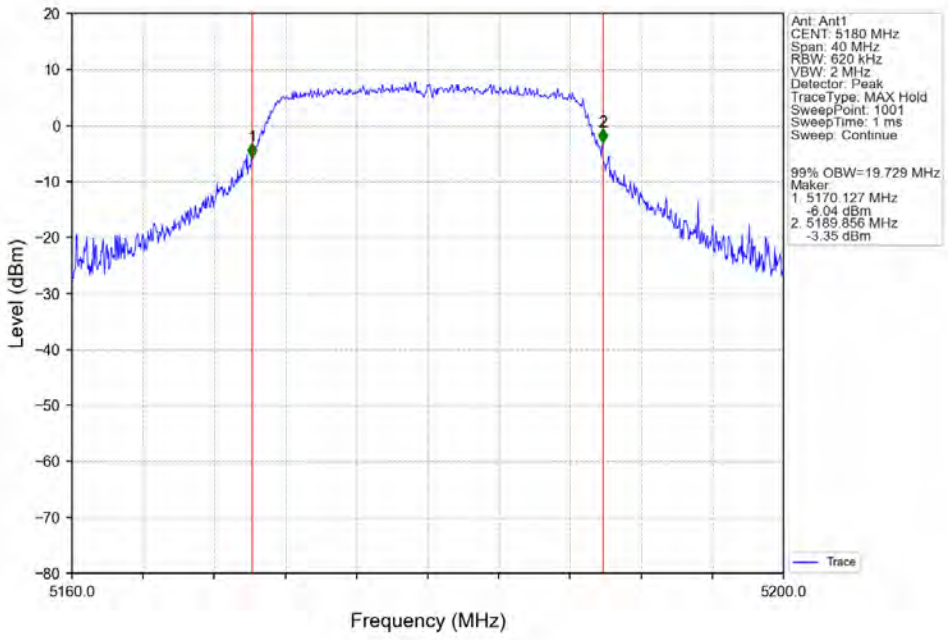
802.11a_MCH_5785MHz_Ant1_NTNV



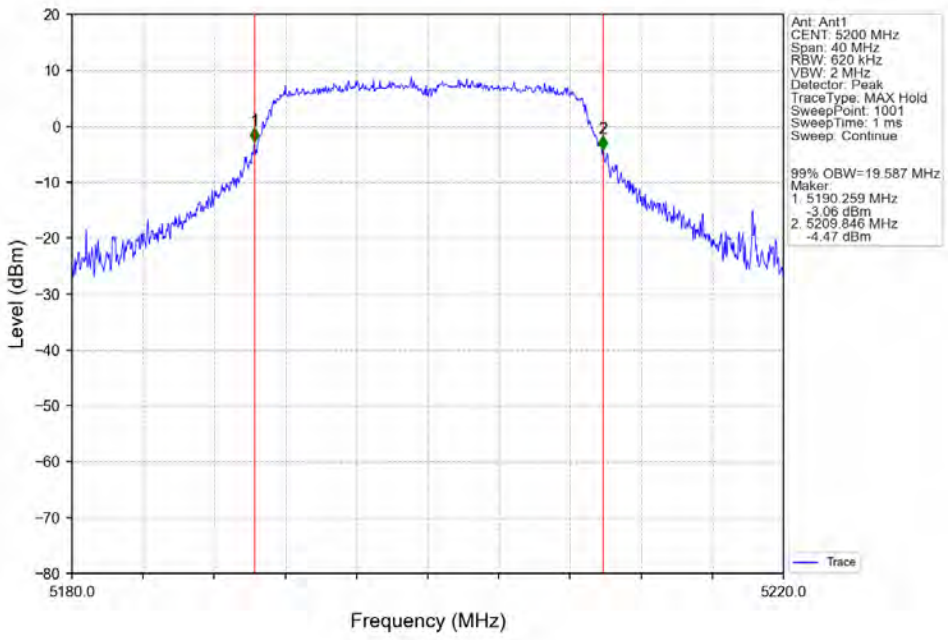
802.11a_HCH_5825MHz_Ant1_NTNV



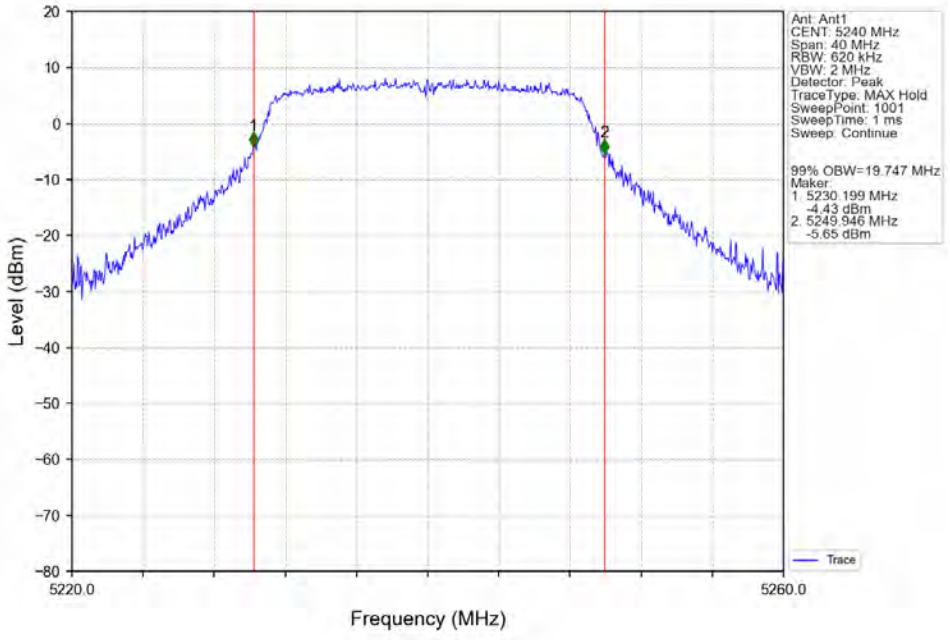
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



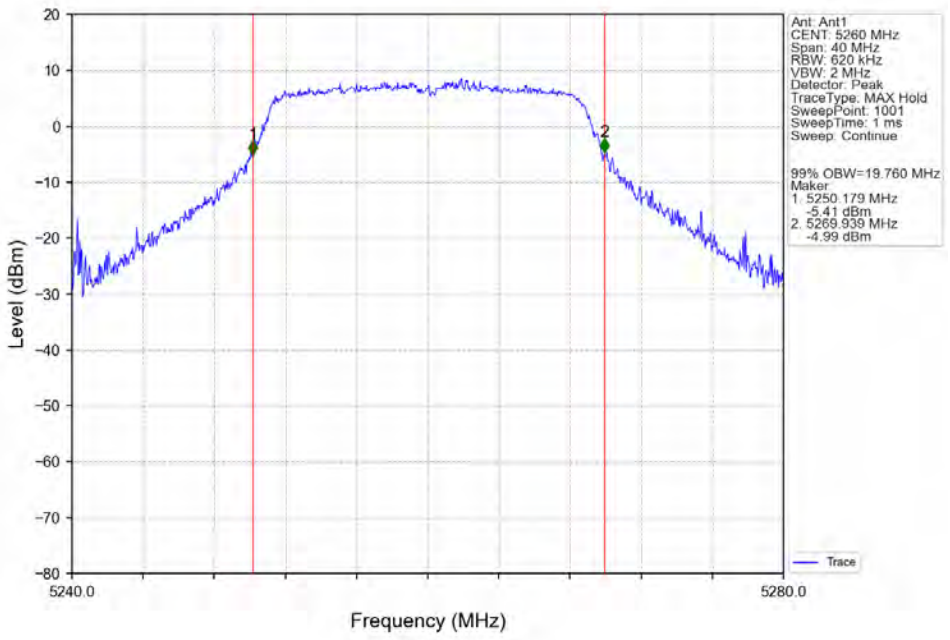
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



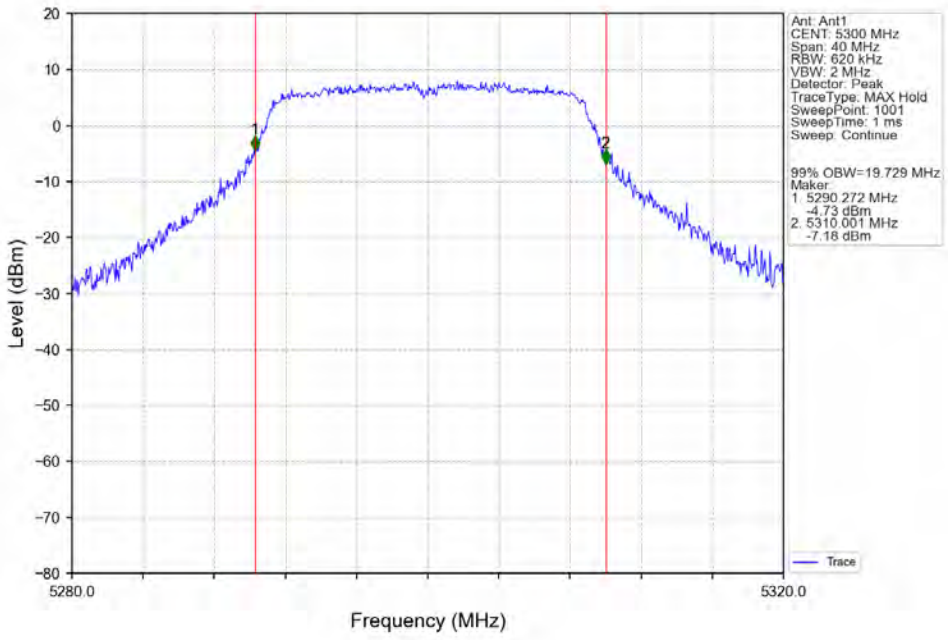
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



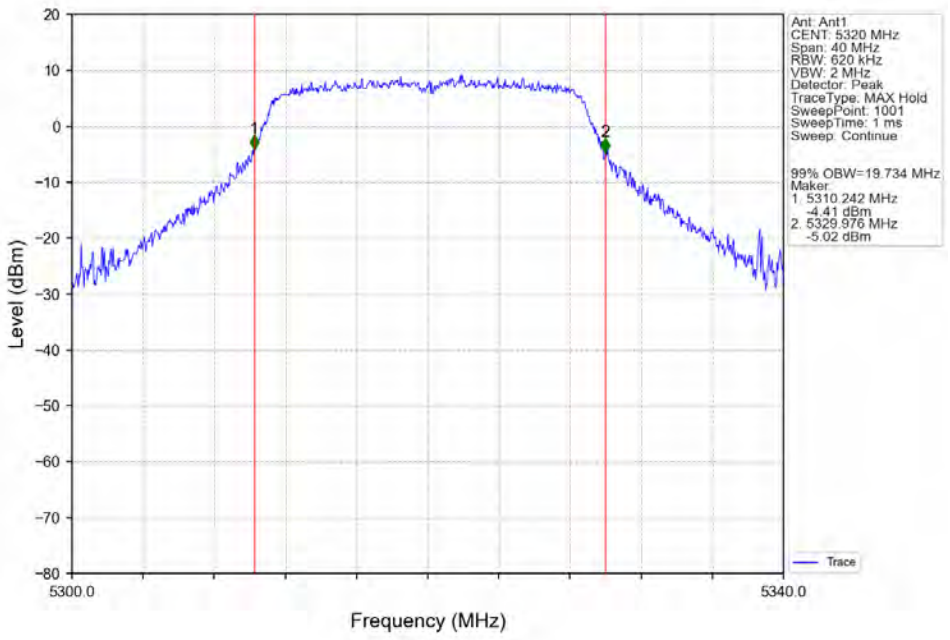
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



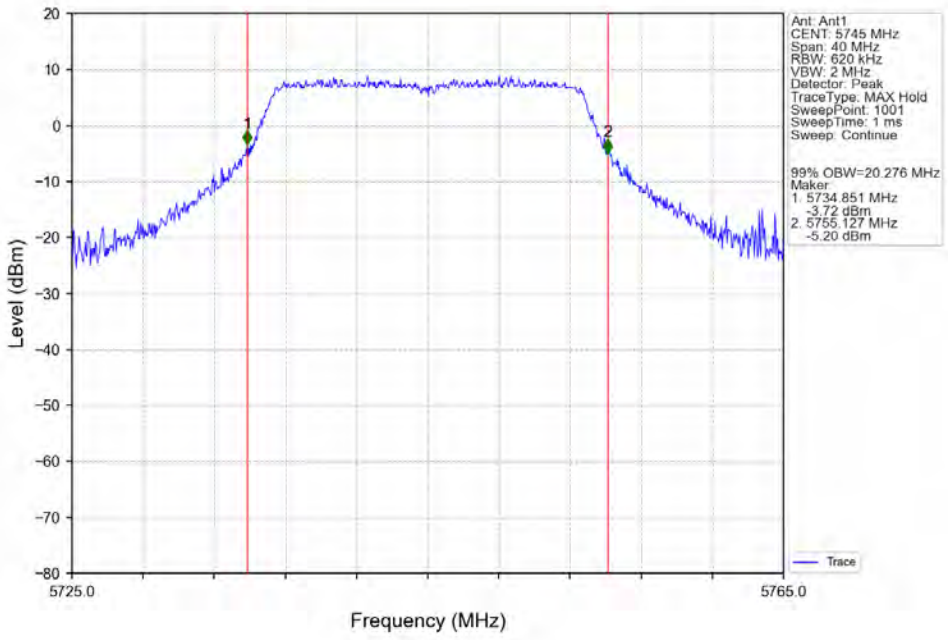
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



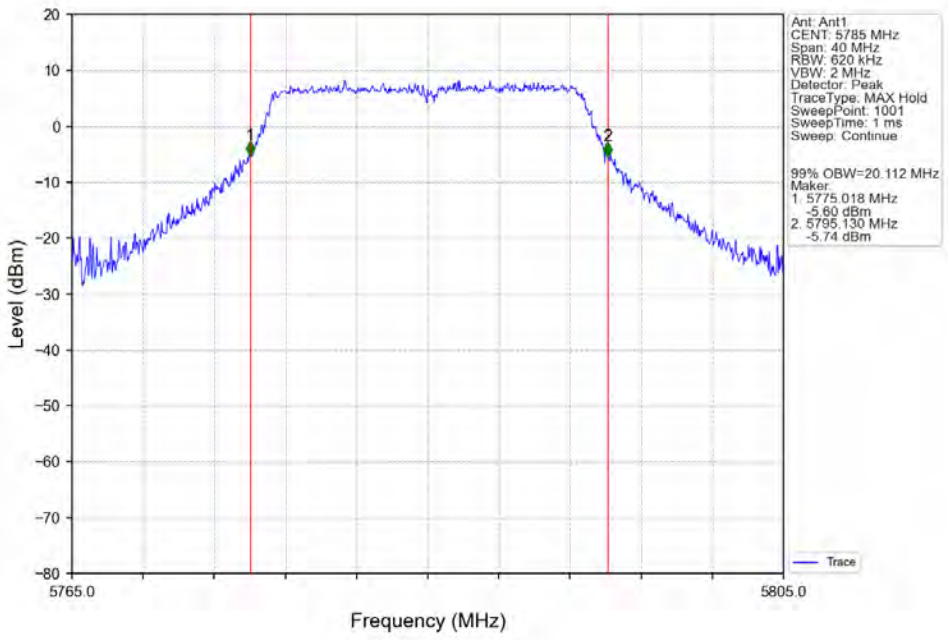
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



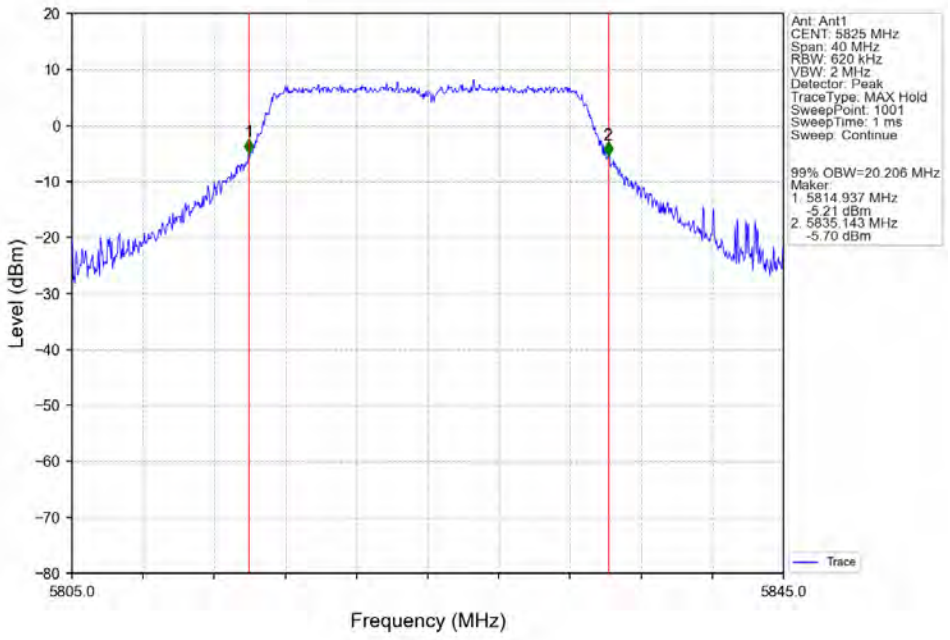
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



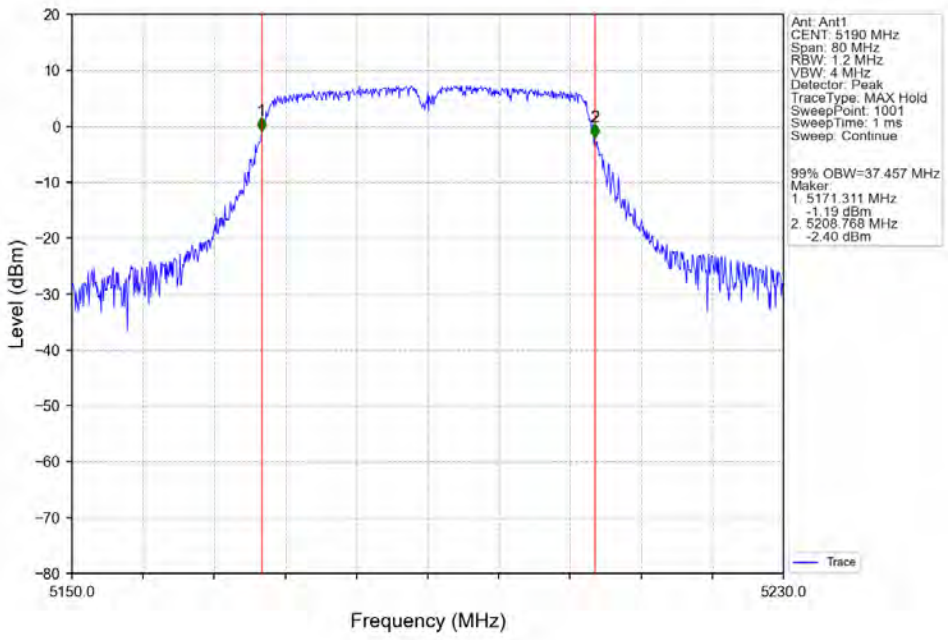
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



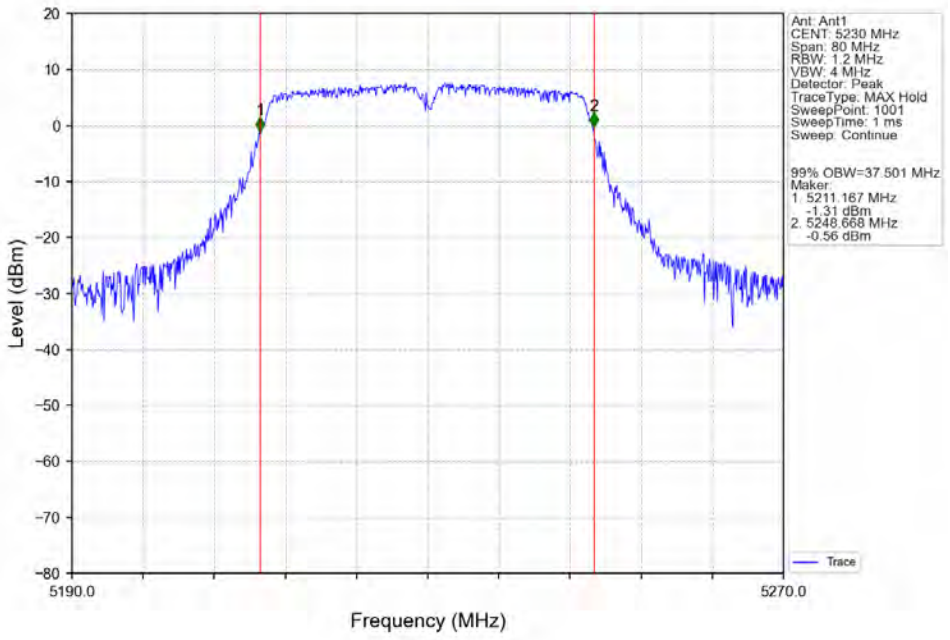
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



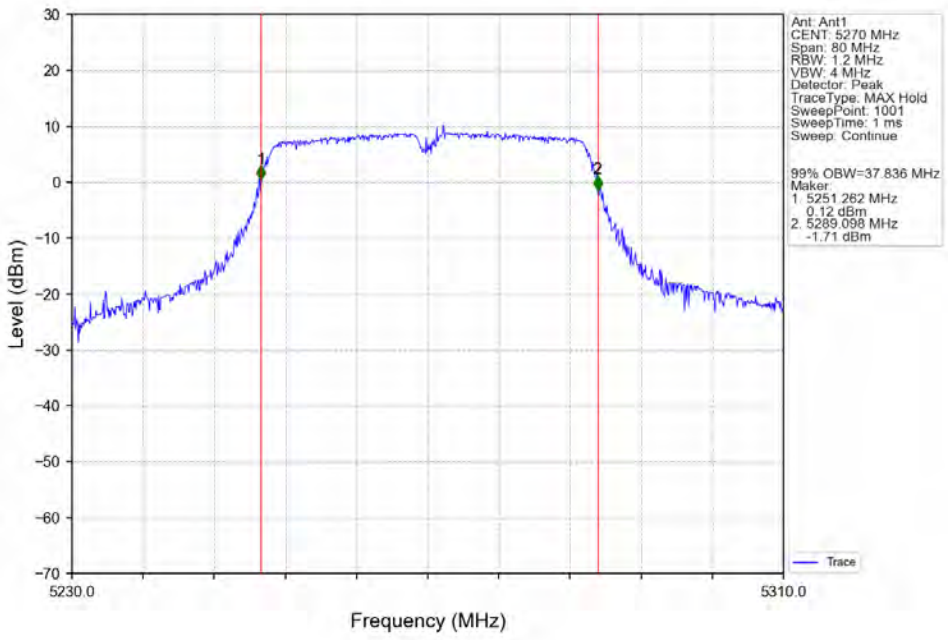
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



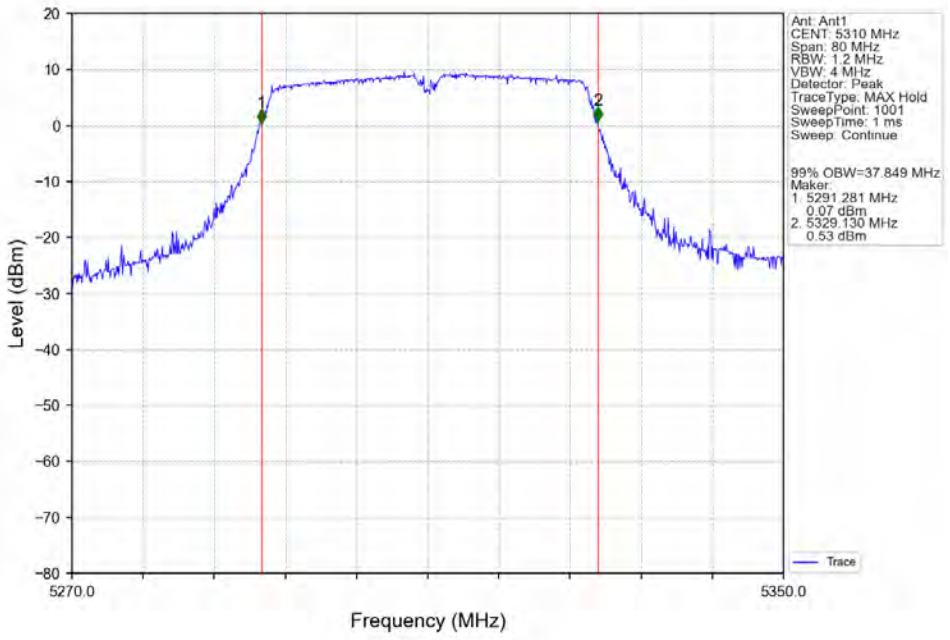
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



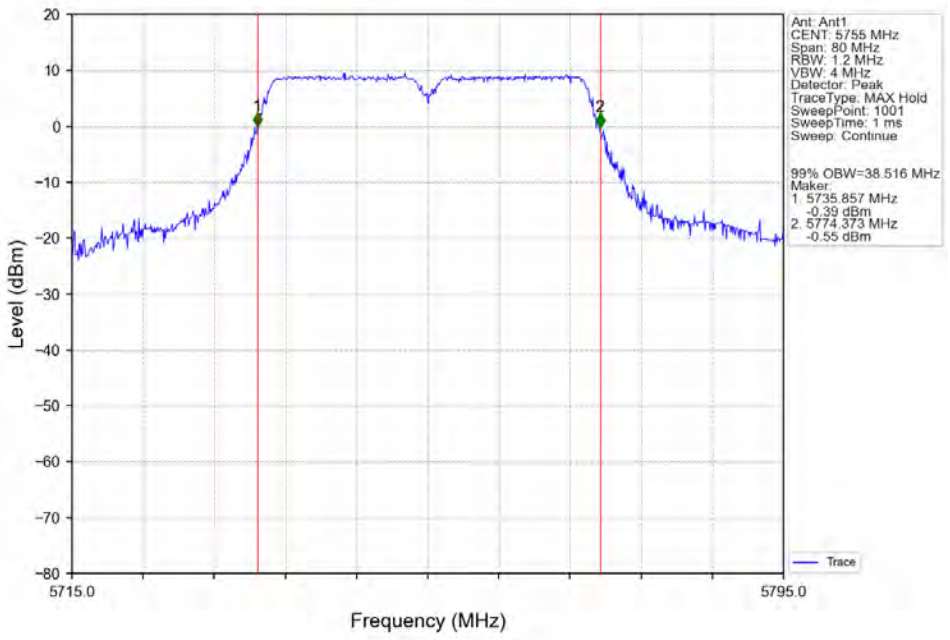
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



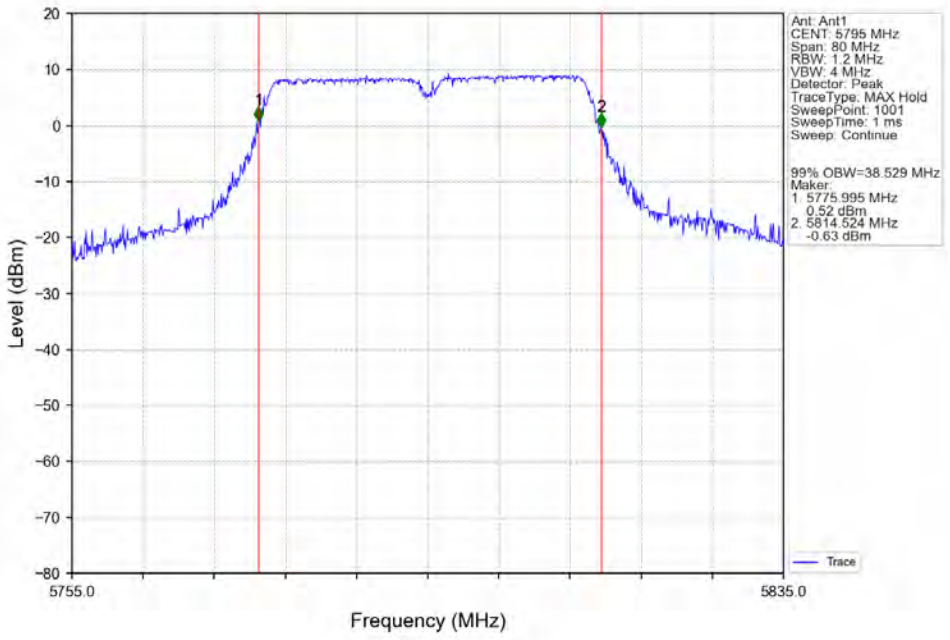
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



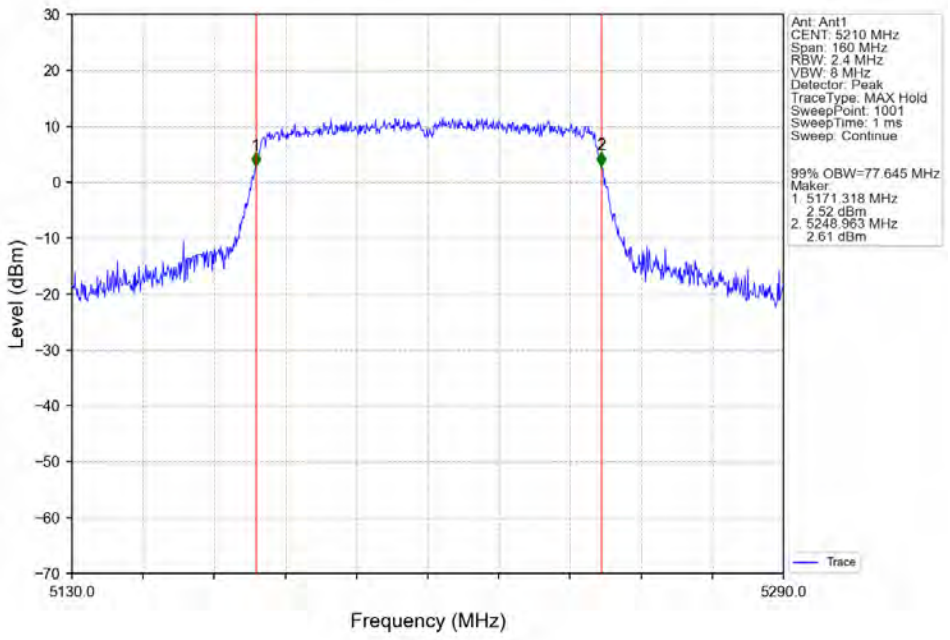
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



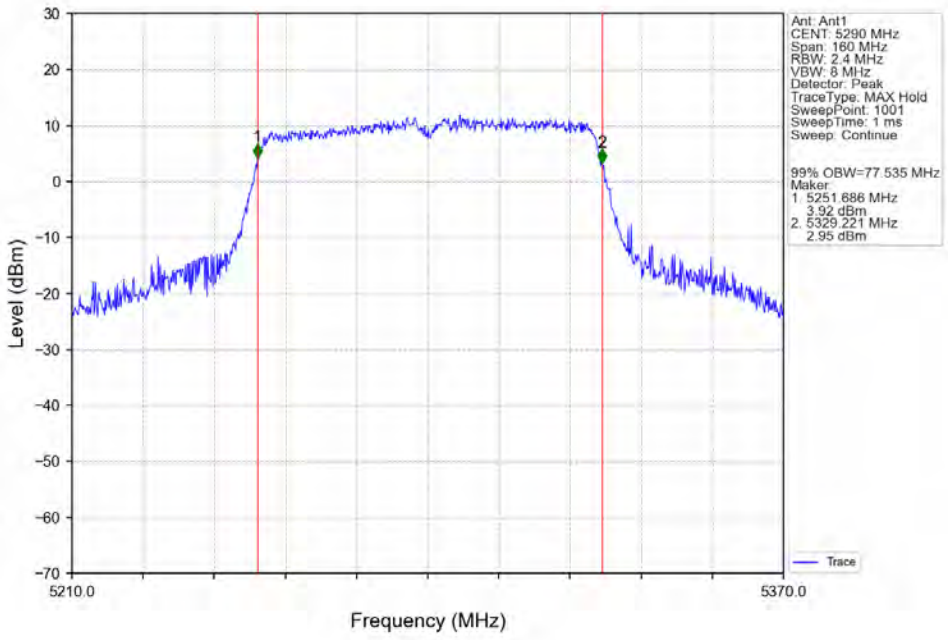
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



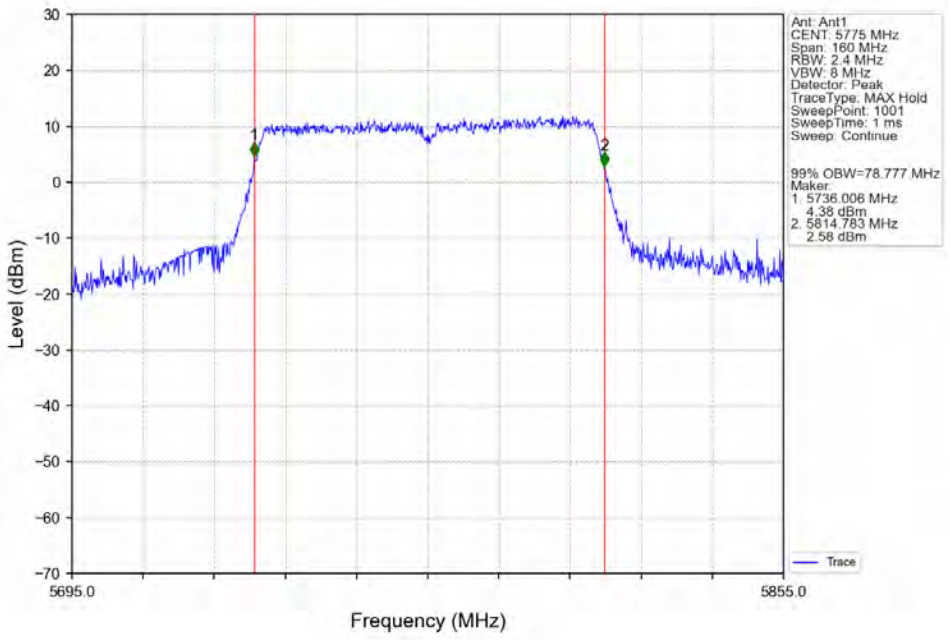
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



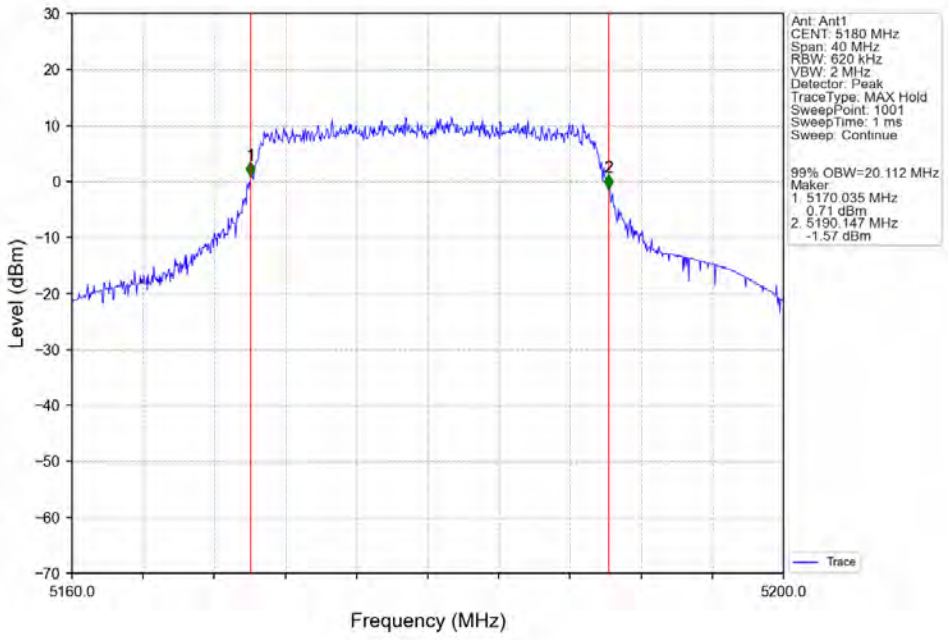
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



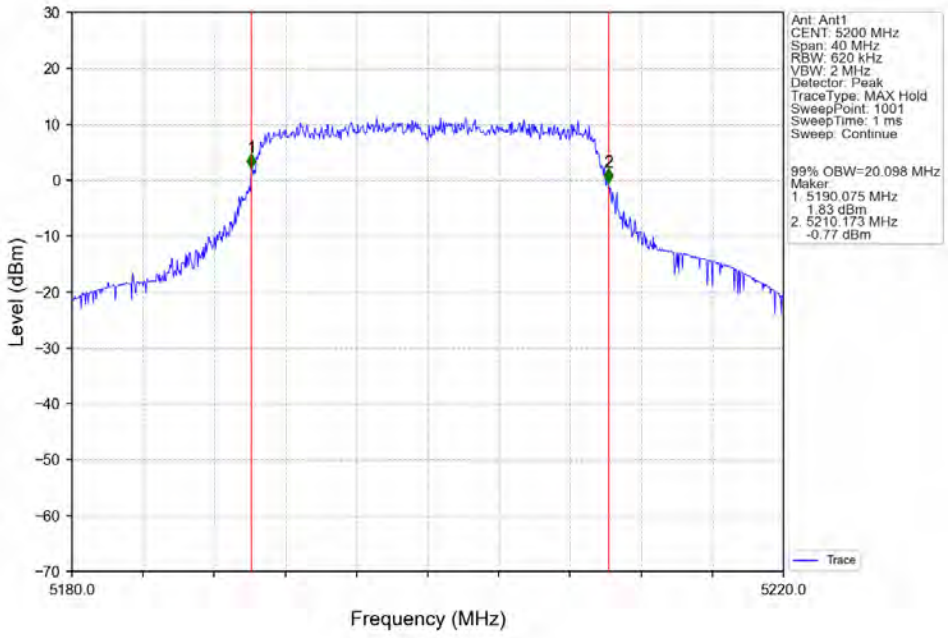
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



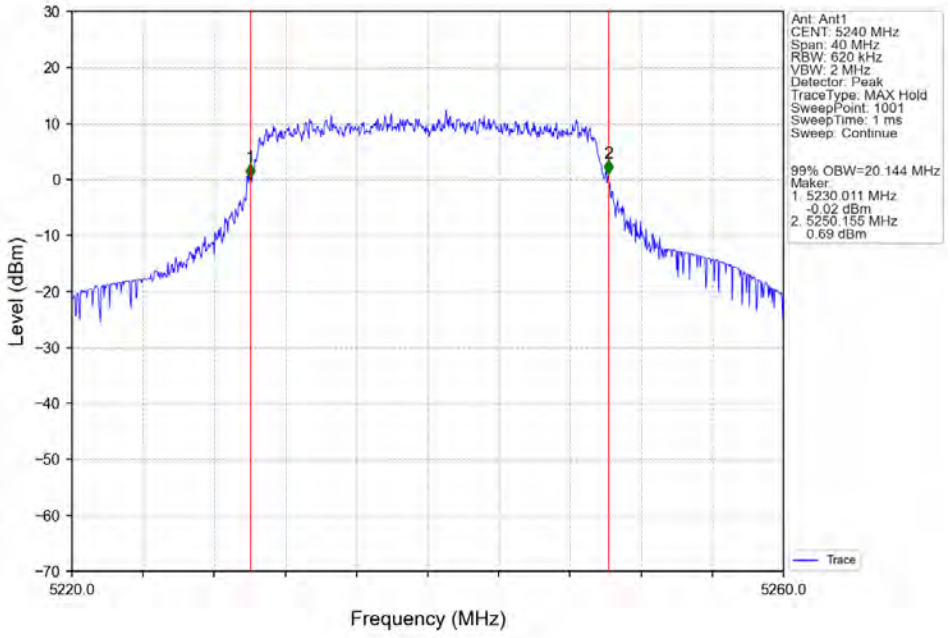
802.11ax(HE20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



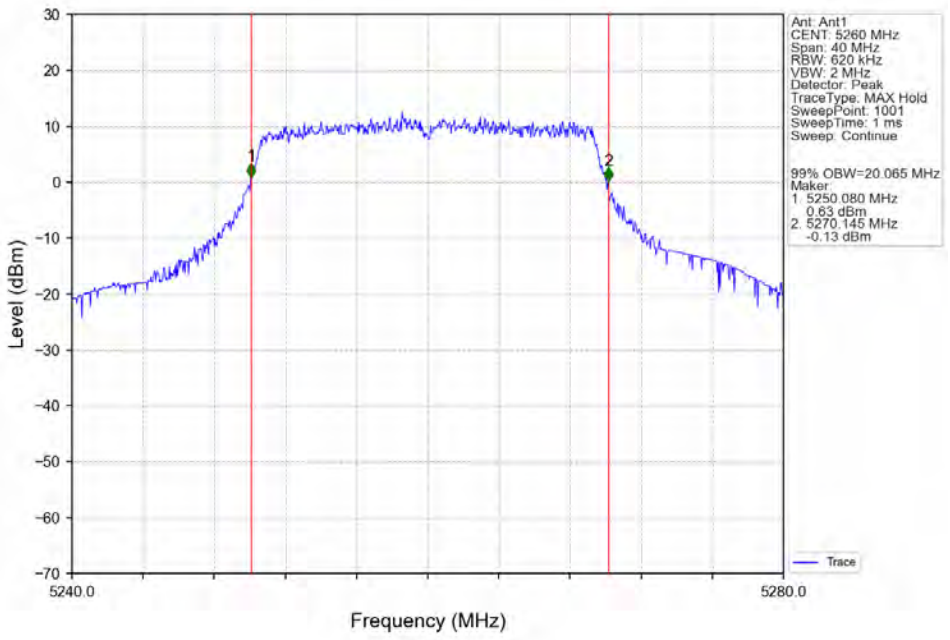
802.11ax(HE20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



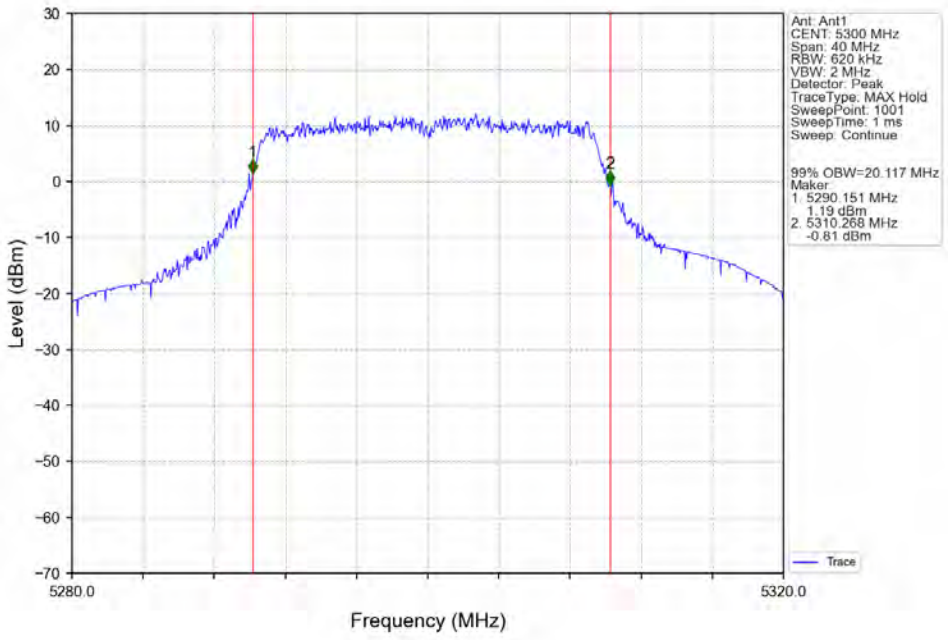
802.11ax(HE20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



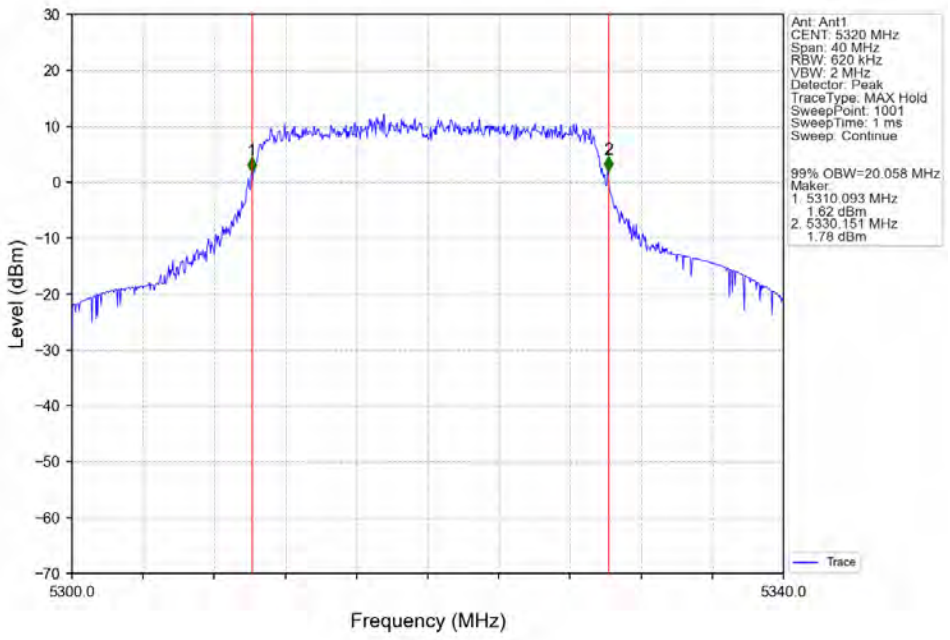
802.11ax(HE20)_LCH_5260MHz_RU242_Left_Ant1_NTNV



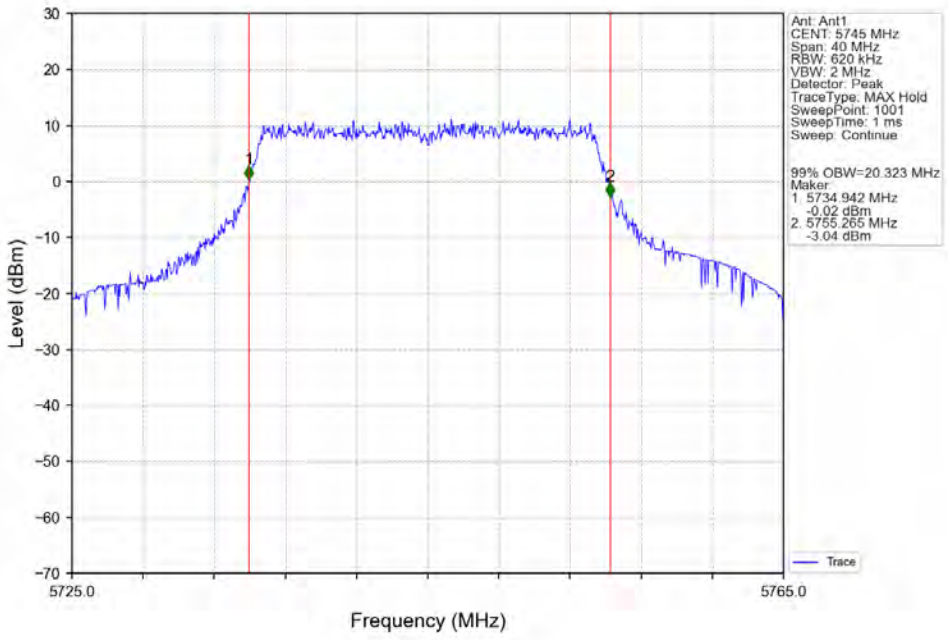
802.11ax(HE20)_MCH_5300MHz_RU242_Left_Ant1_NTNV



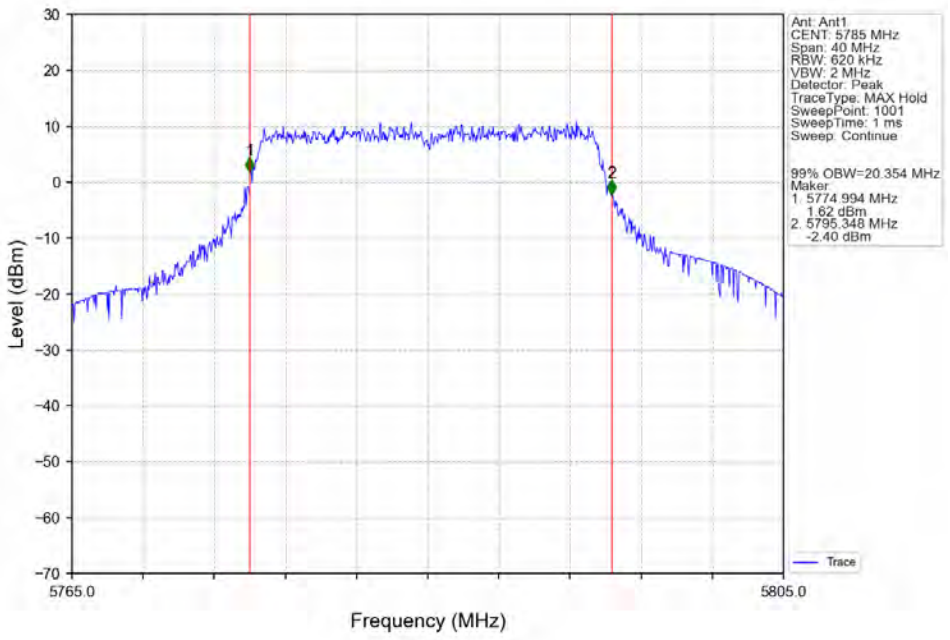
802.11ax(HE20)_HCH_5320MHz_RU242_Left_Ant1_NTNV



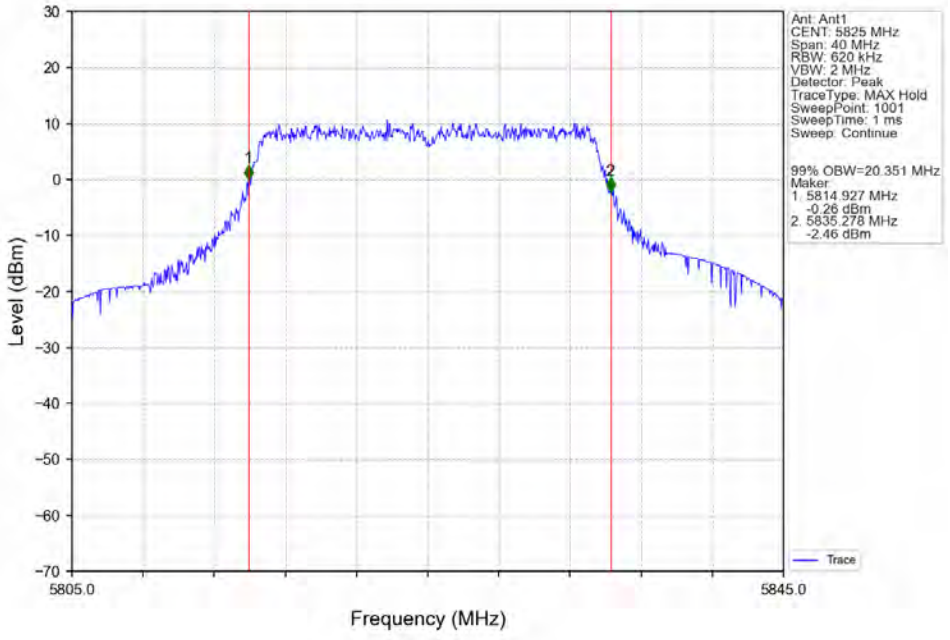
802.11ax(HE20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



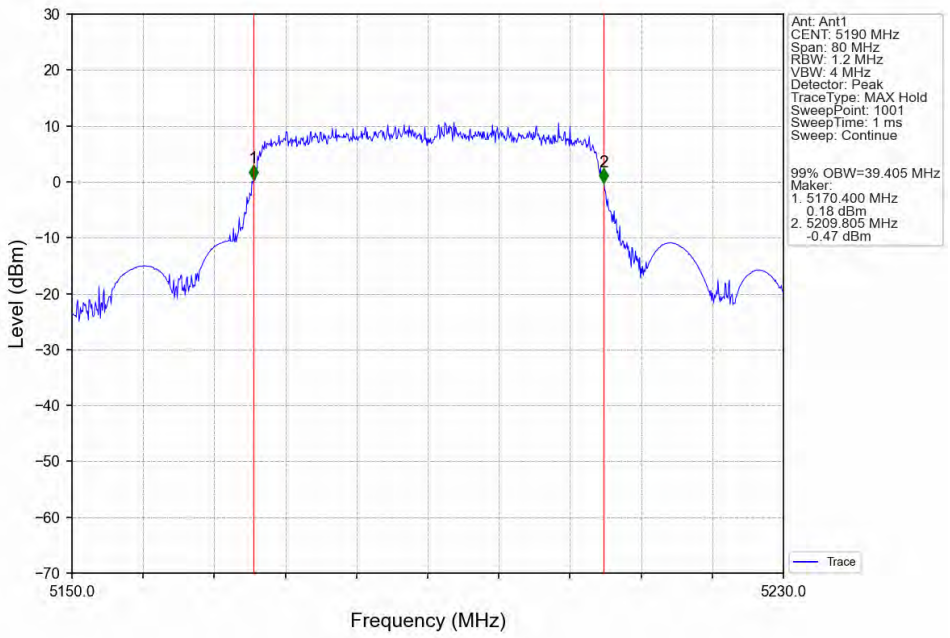
802.11ax(HE20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



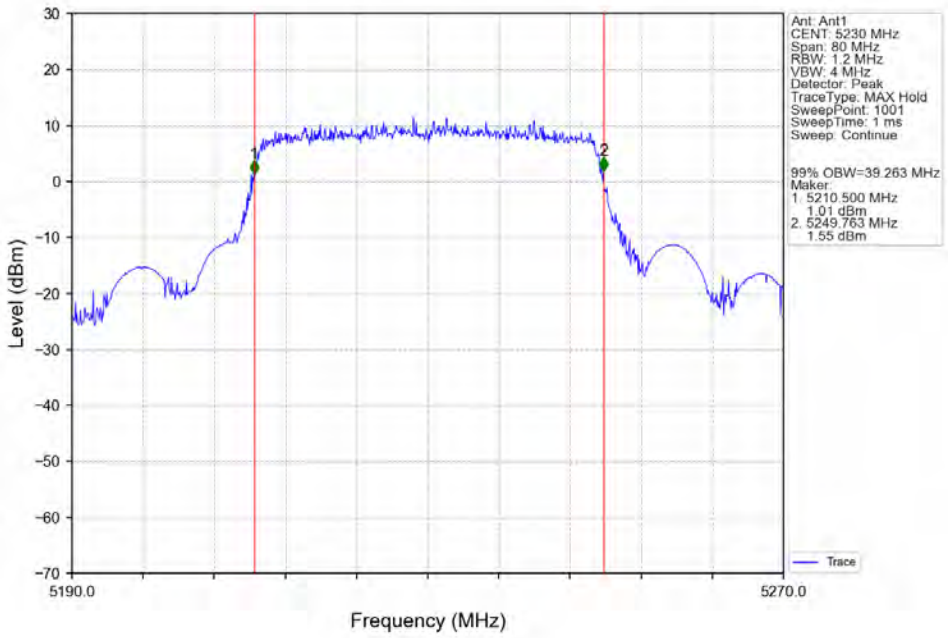
802.11ax(HE20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



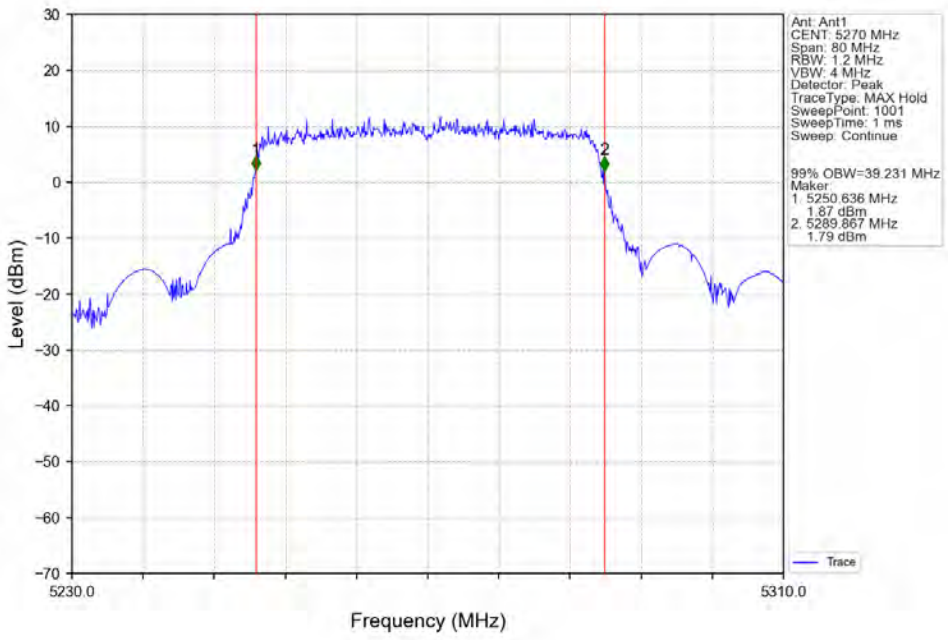
802.11ax(HE40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



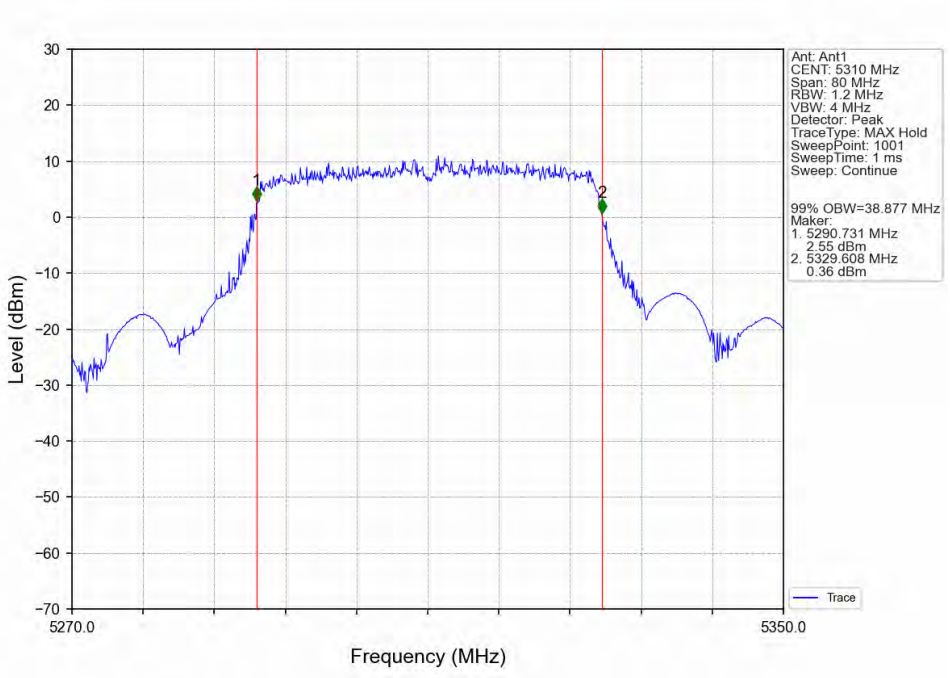
802.11ax(HE40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



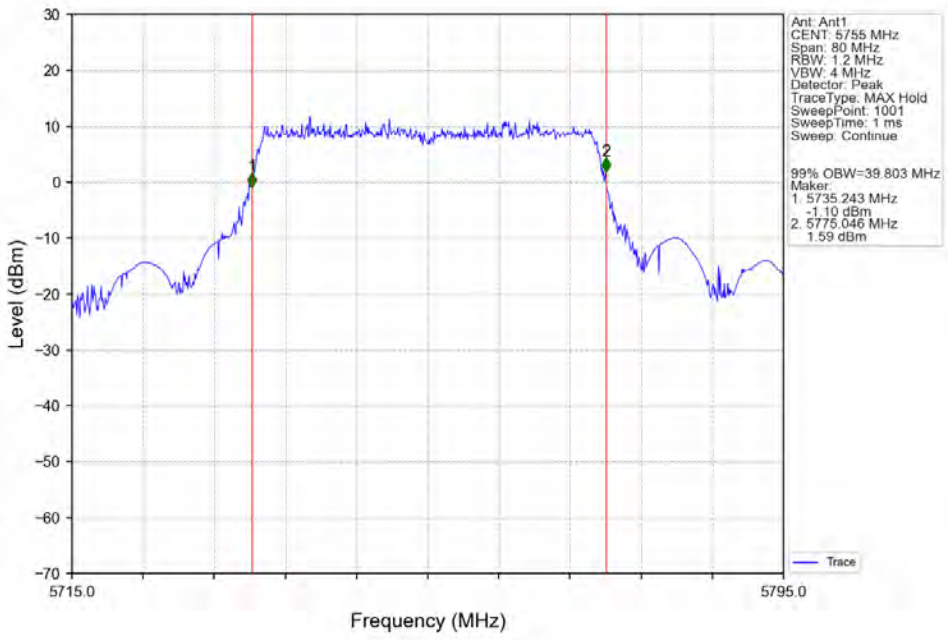
802.11ax(HE40)_LCH_5270MHz_RU484_Left_Ant1_NTNV



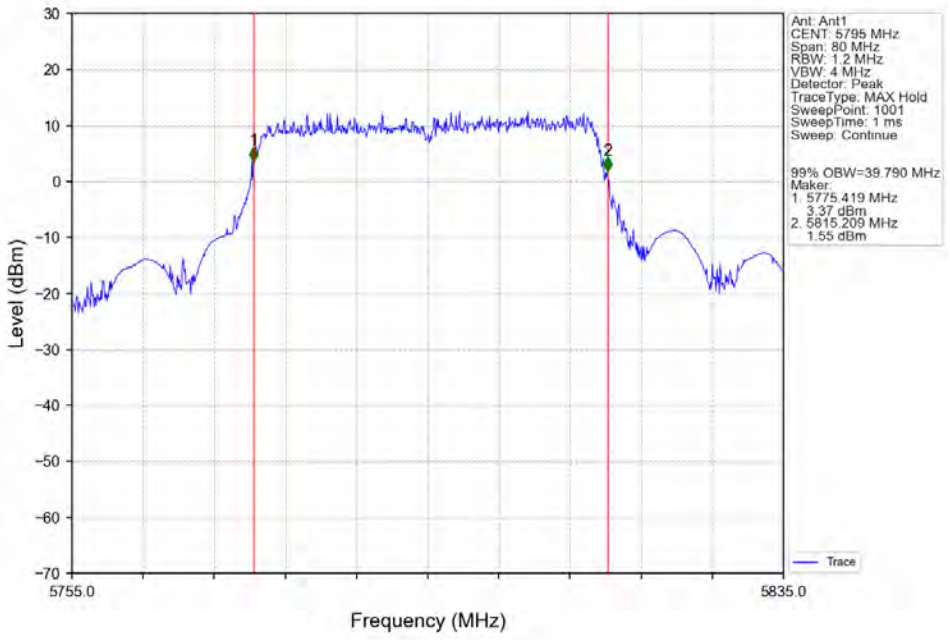
802.11ax(HE40)_HCH_5310MHz_RU484_Left_Ant1_NTNV



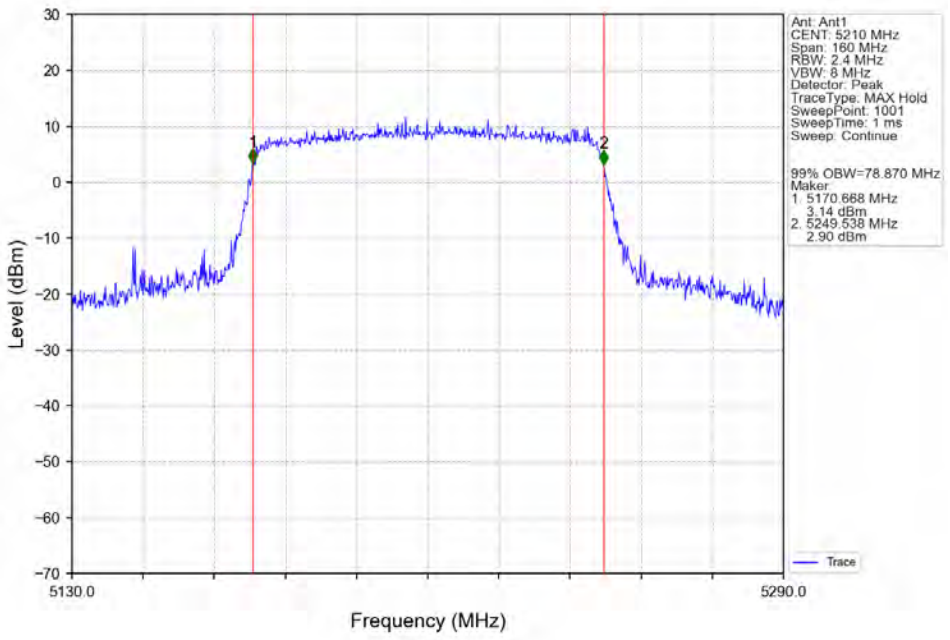
802.11ax(HE40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



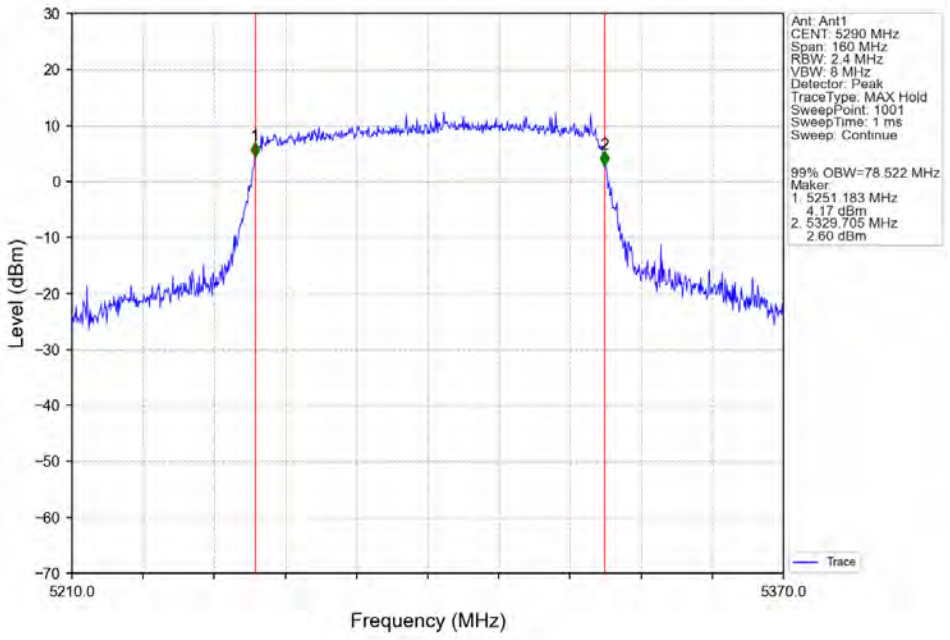
802.11ax(HE40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



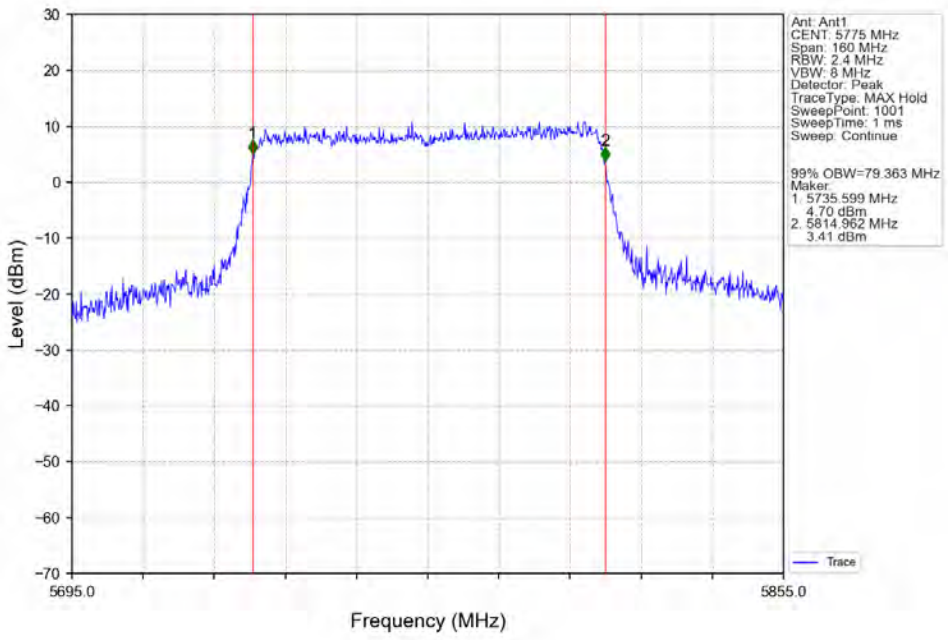
802.11ax(HE80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



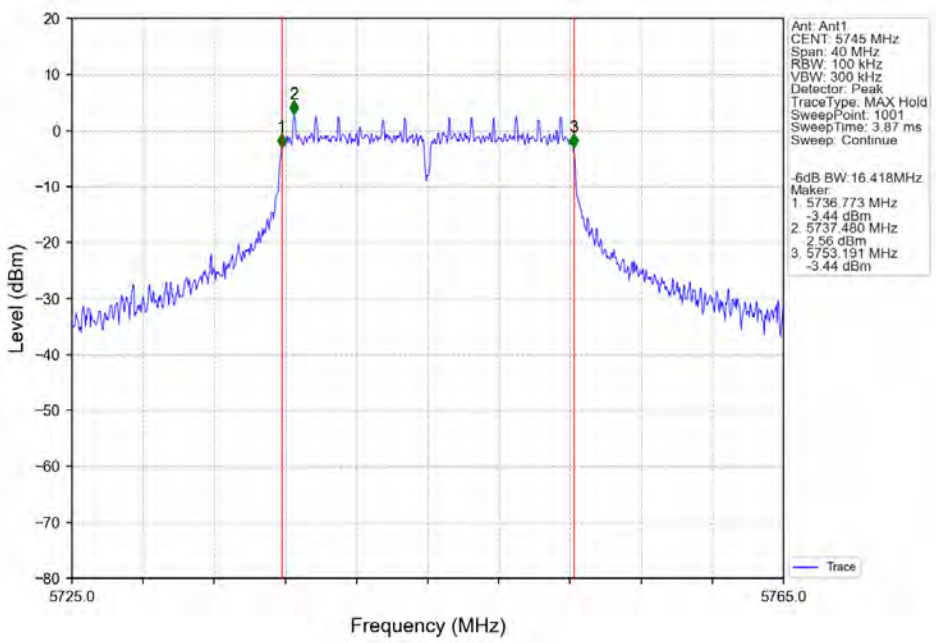
802.11ax(HE80)_MCH_5290MHz_RU996_Left_Ant1_NTNV

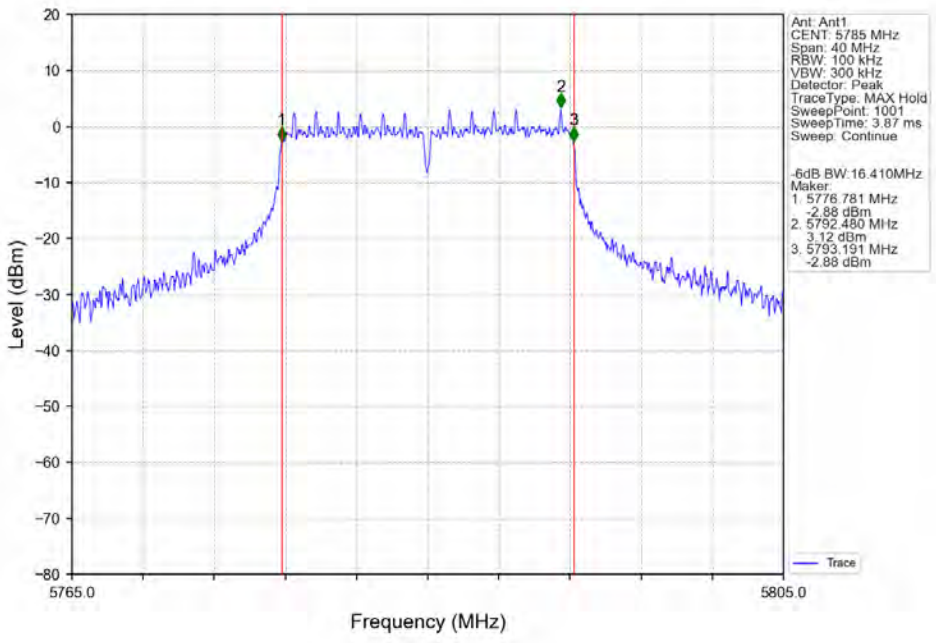


802.11ax(HE80)_MCH_5775MHz_RU996_Left_Ant1_NTNV

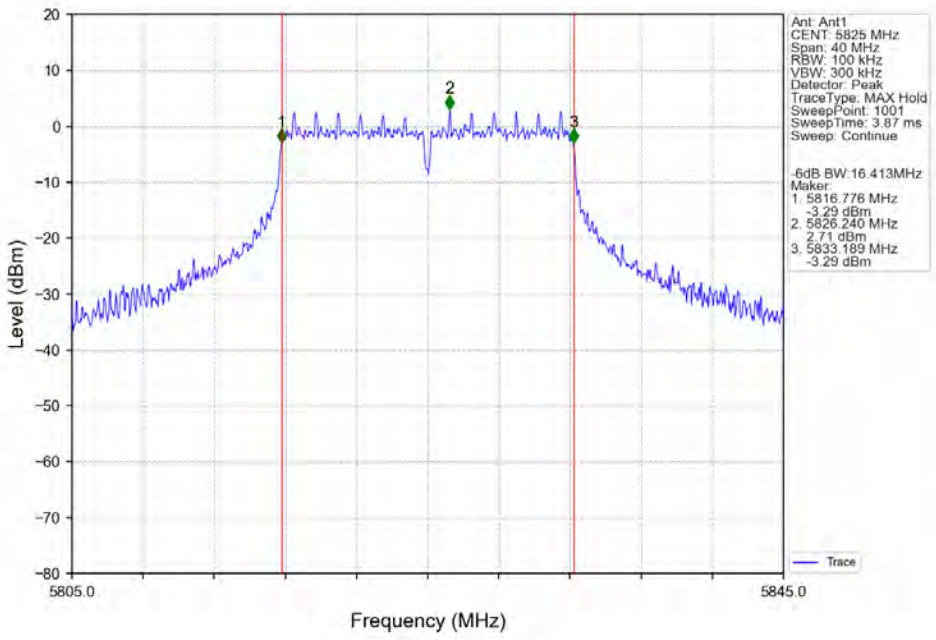


2.2.2 6dB BW

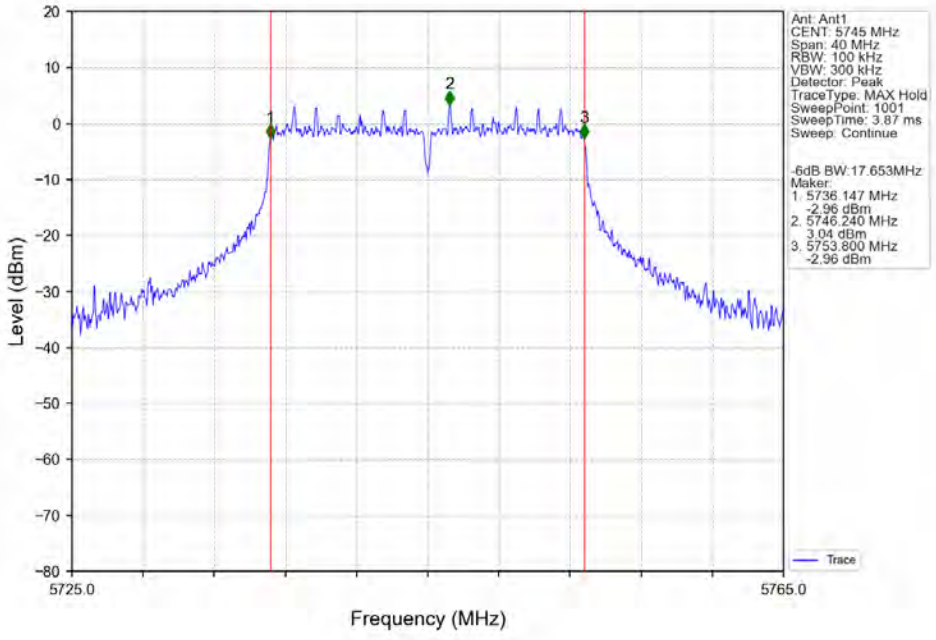
802.11a_LCH_5745MHz_Ant1_NTNV


802.11a_MCH_5785MHz_Ant1_NTNV


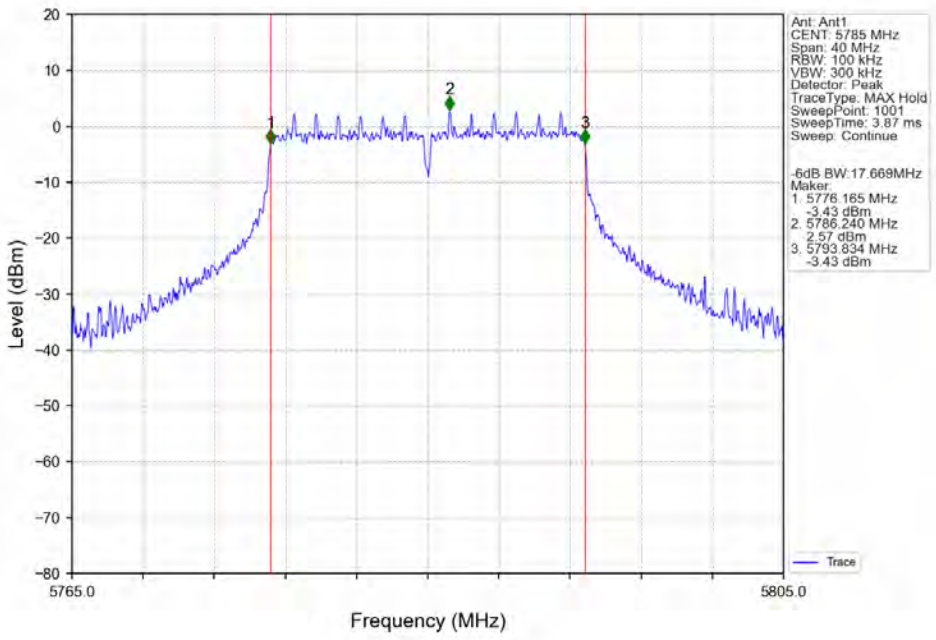
802.11a_HCH_5825MHz_Ant1_NTNV



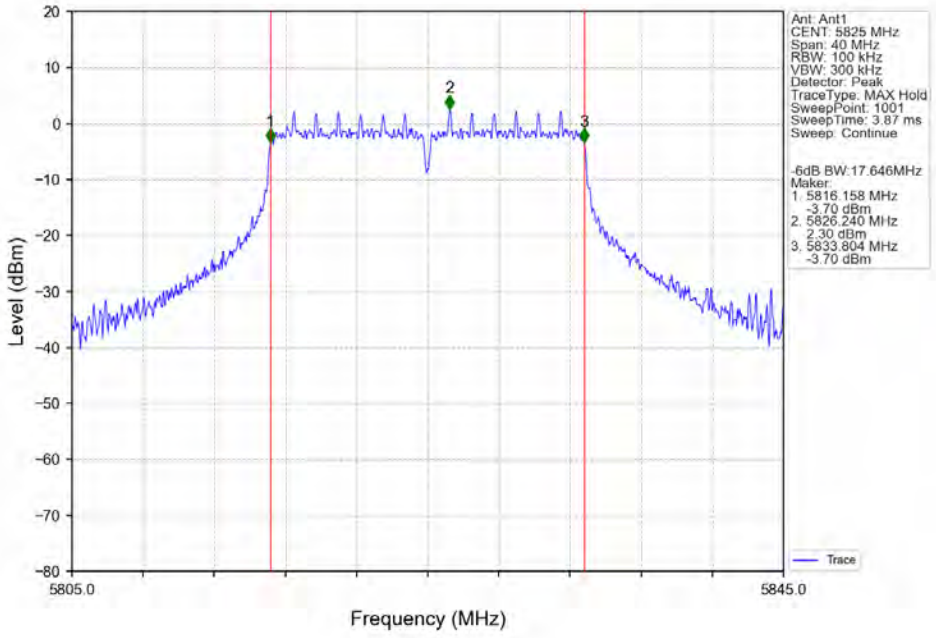
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



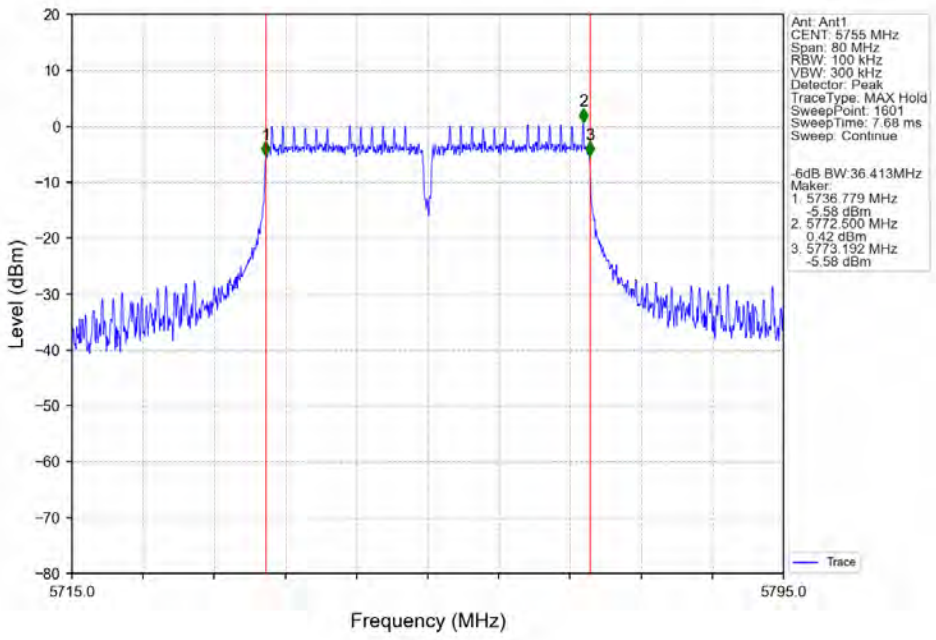
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



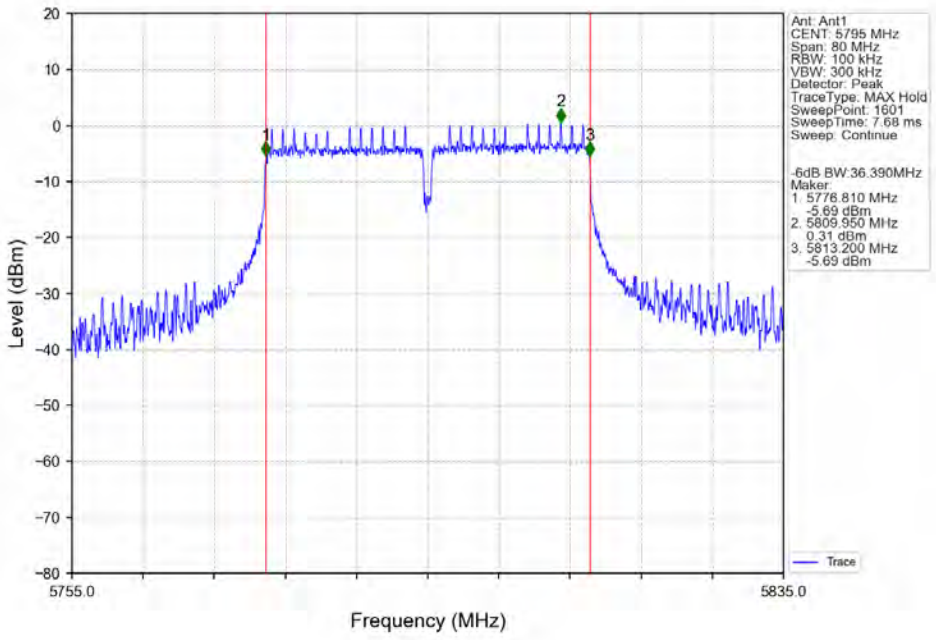
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



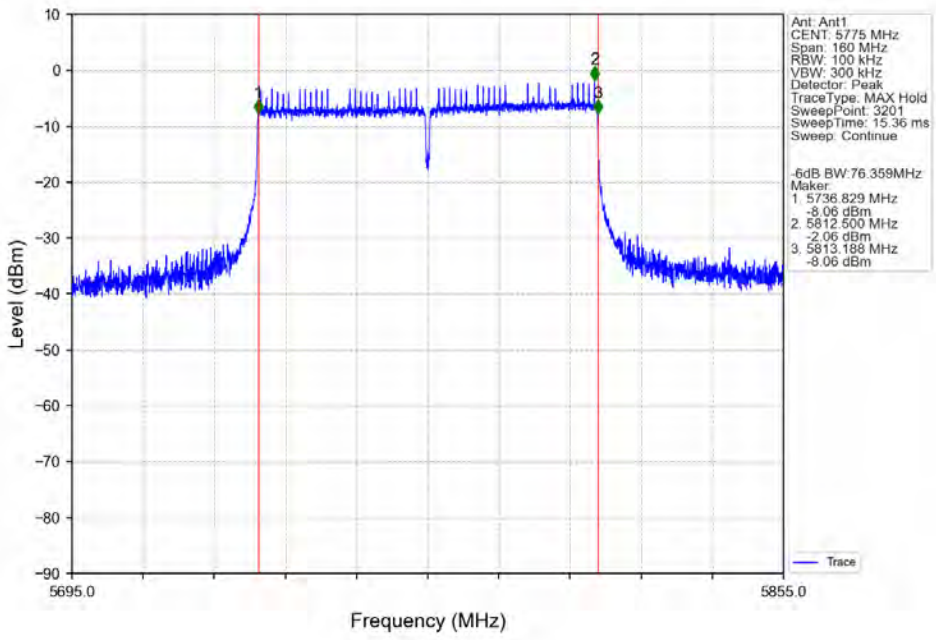
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



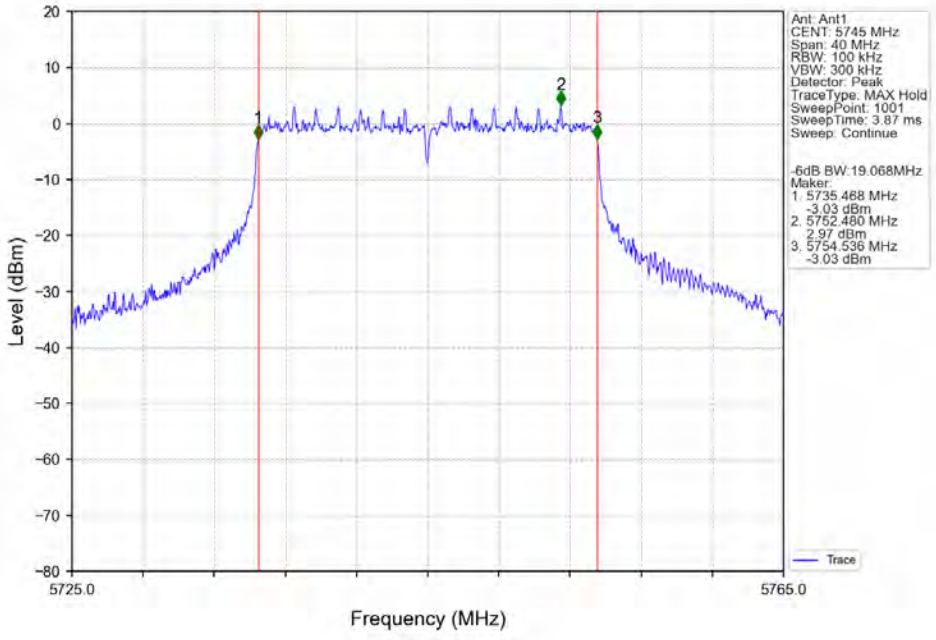
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



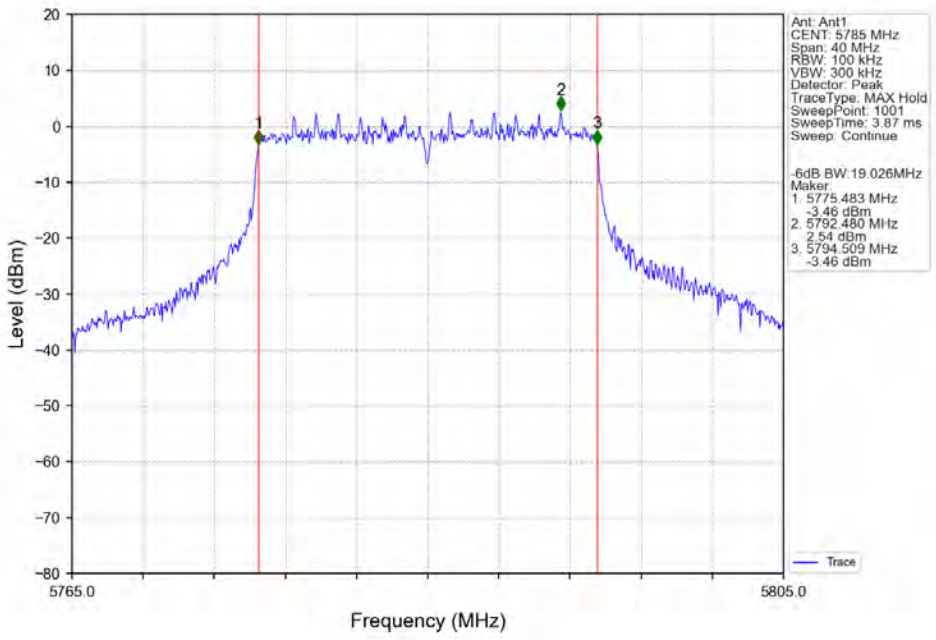
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



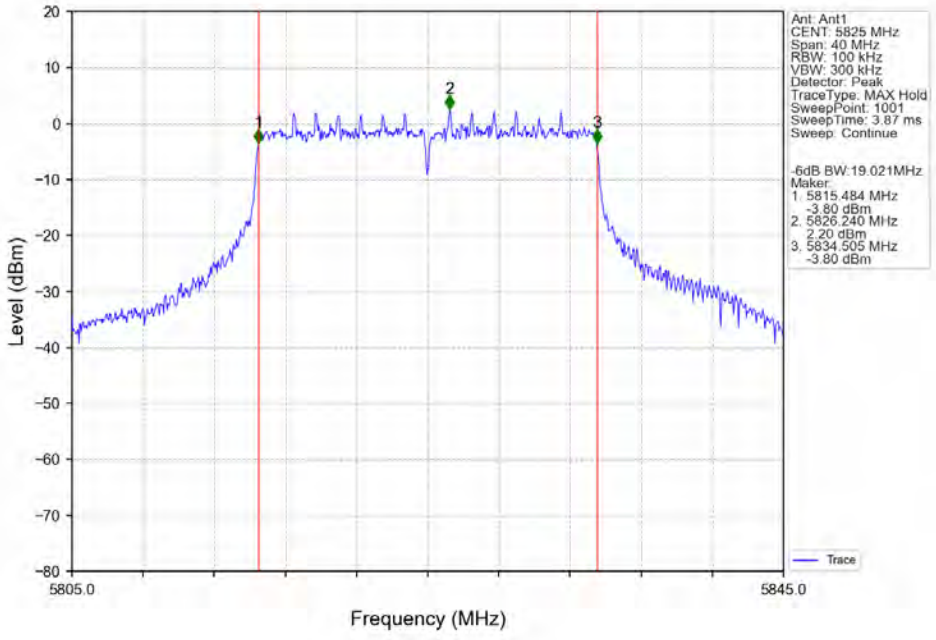
802.11ax(HE20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



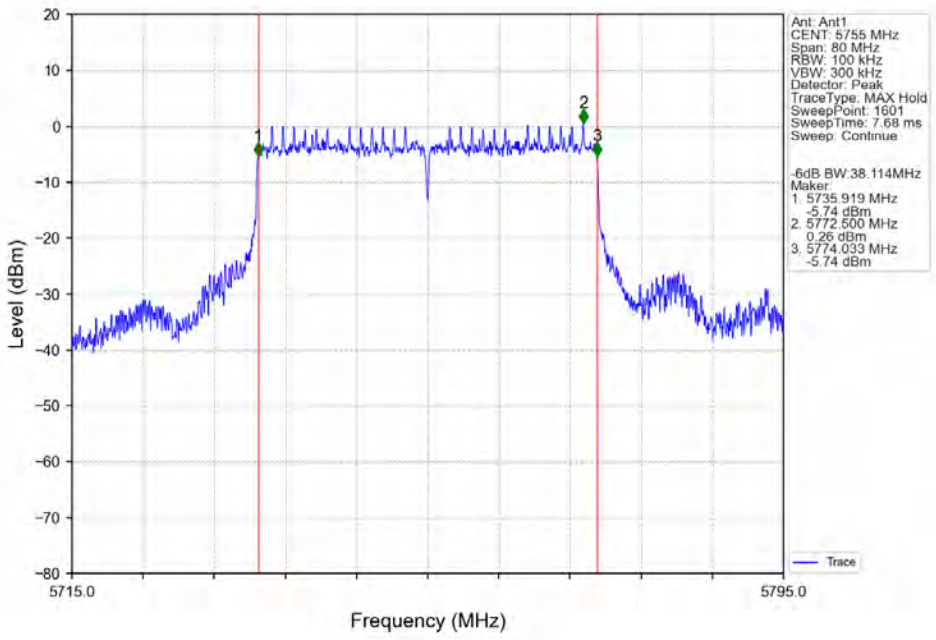
802.11ax(HE20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



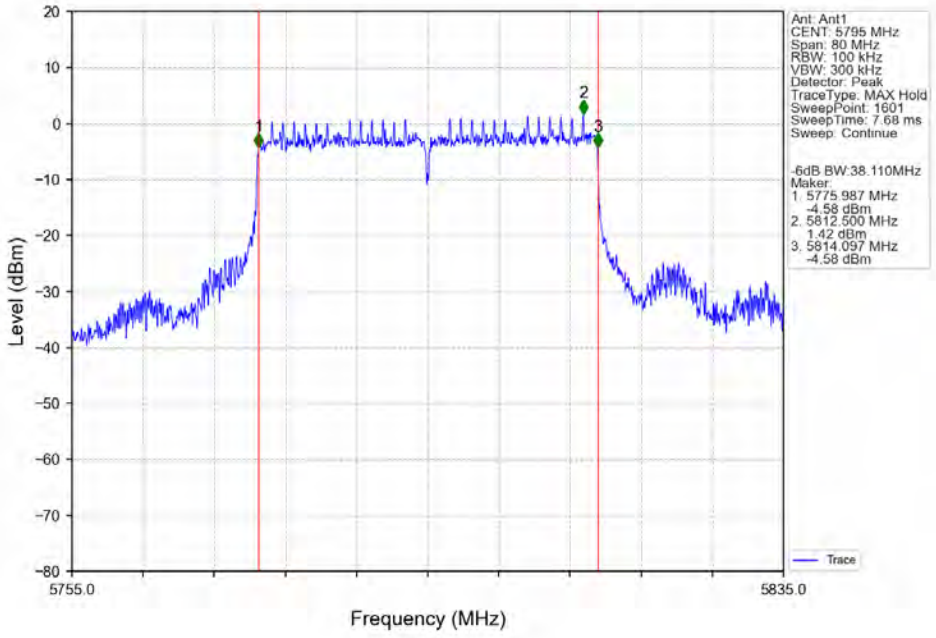
802.11ax(HE20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



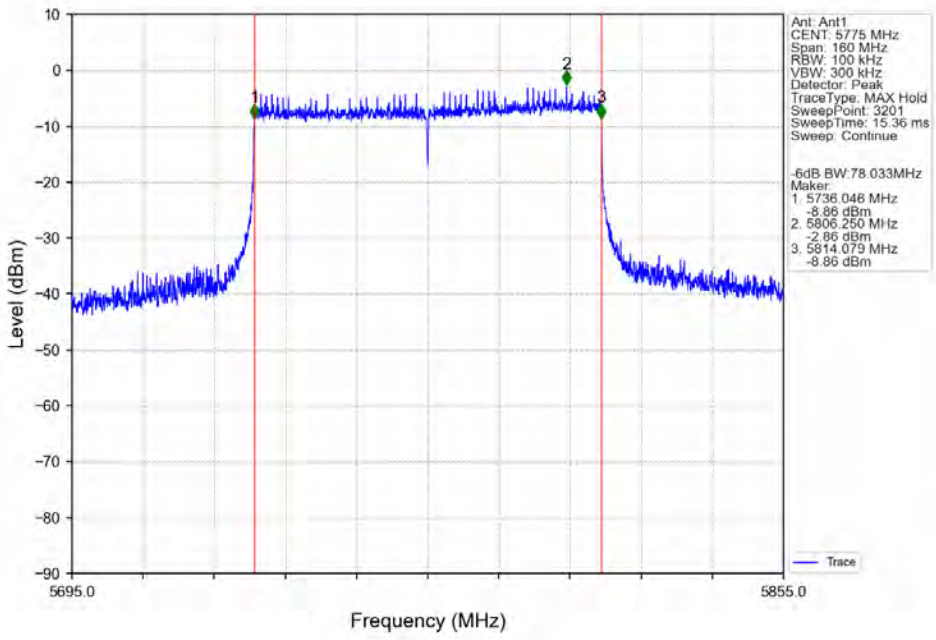
802.11ax(HE40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



802.11ax(HE40)_HCH_5795MHz_RU484_Left_Ant1_NTNV

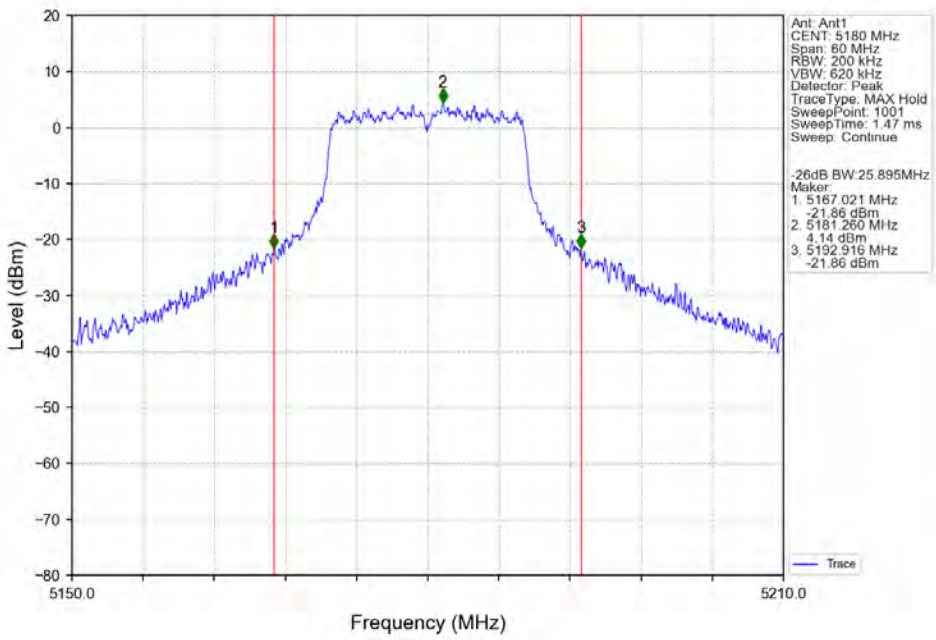


802.11ax(HE80)_MCH_5775MHz_RU996_Left_Ant1_NTNV

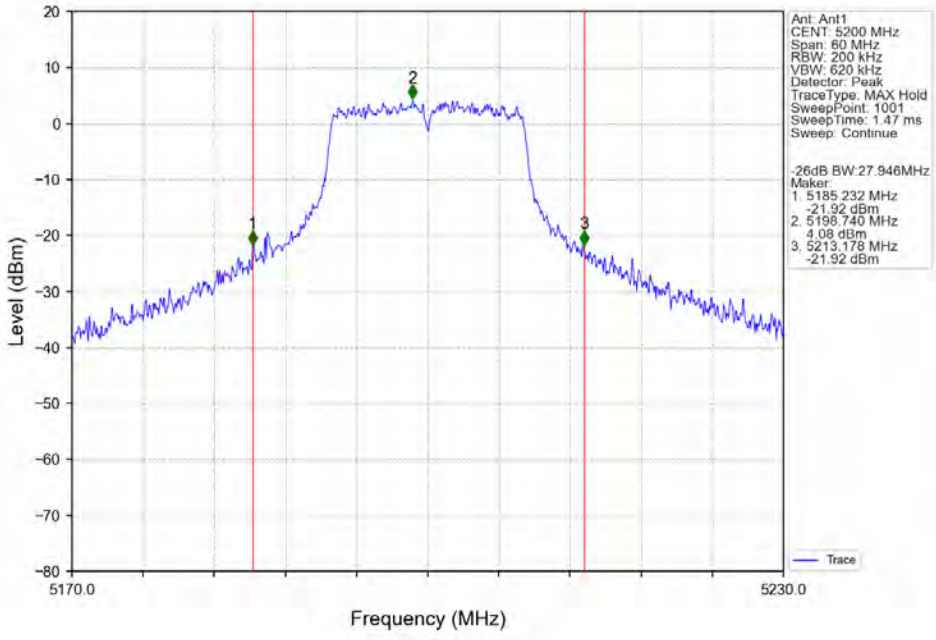


2.2.3 26dB BW

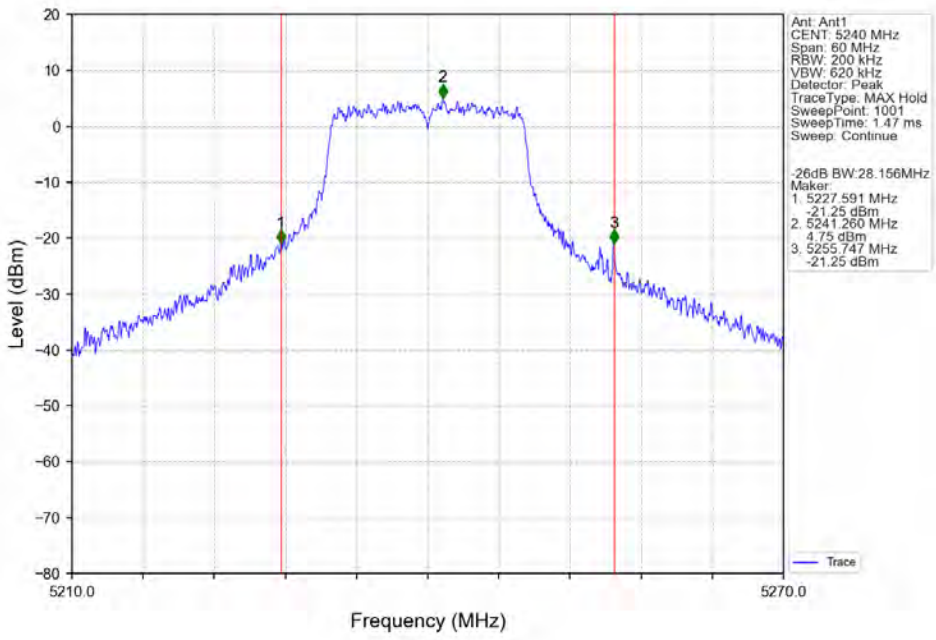
802.11a_LCH_5180MHz_Ant1_NTNV



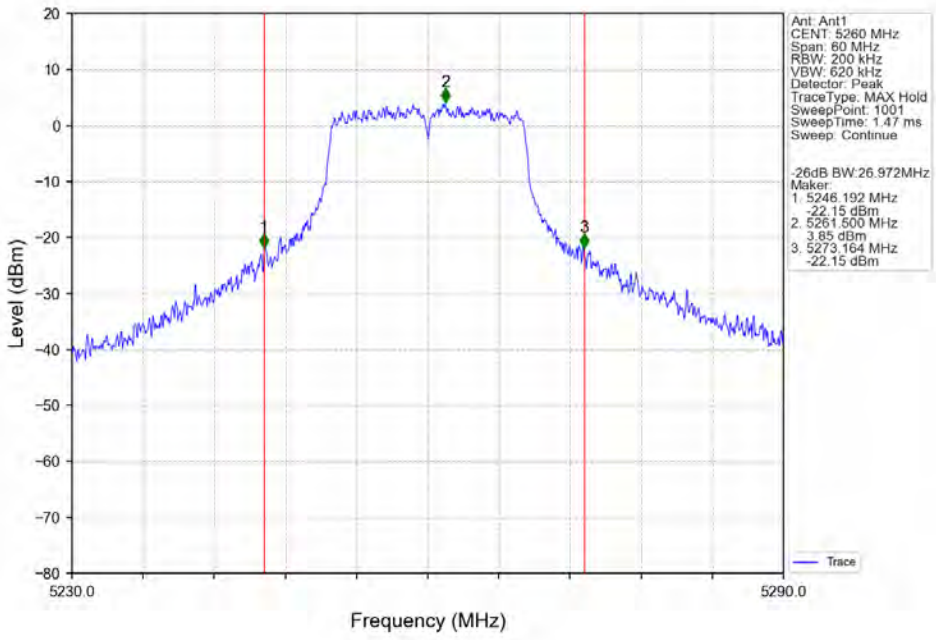
802.11a_MCH_5200MHz_Ant1_NTNV



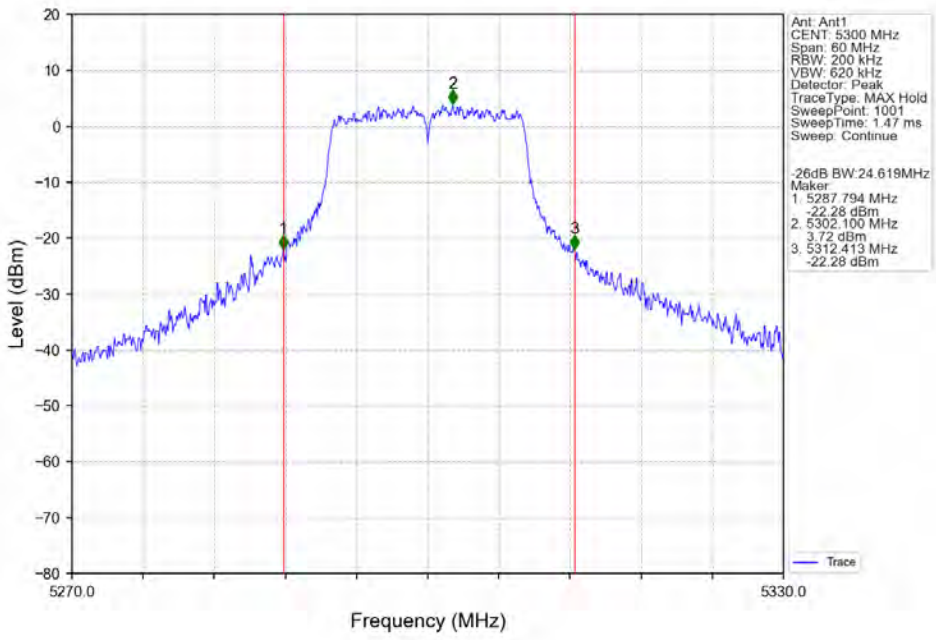
802.11a_HCH_5240MHz_Ant1_NTNV



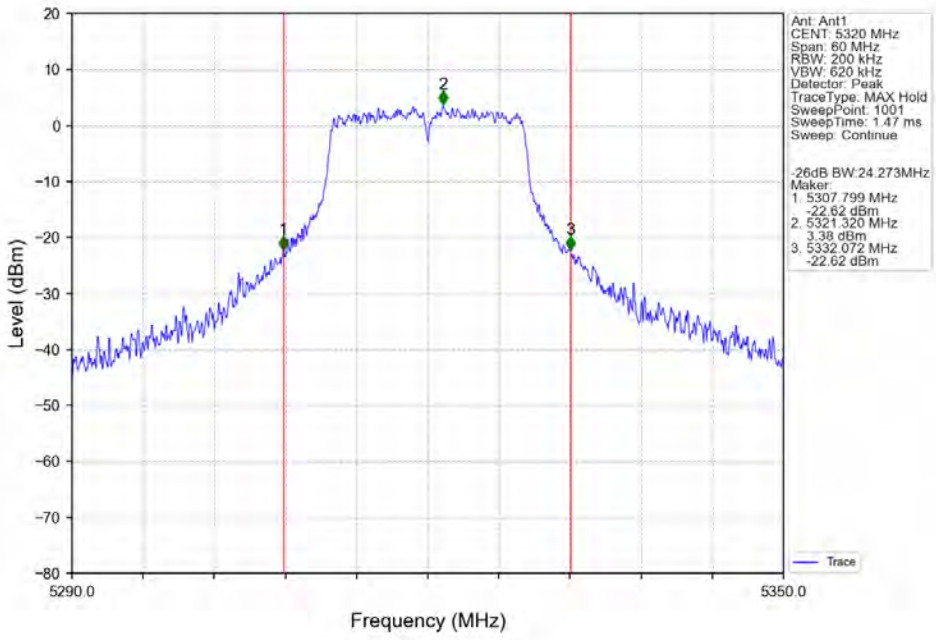
802.11a_LCH_5260MHz_Ant1_NTNV



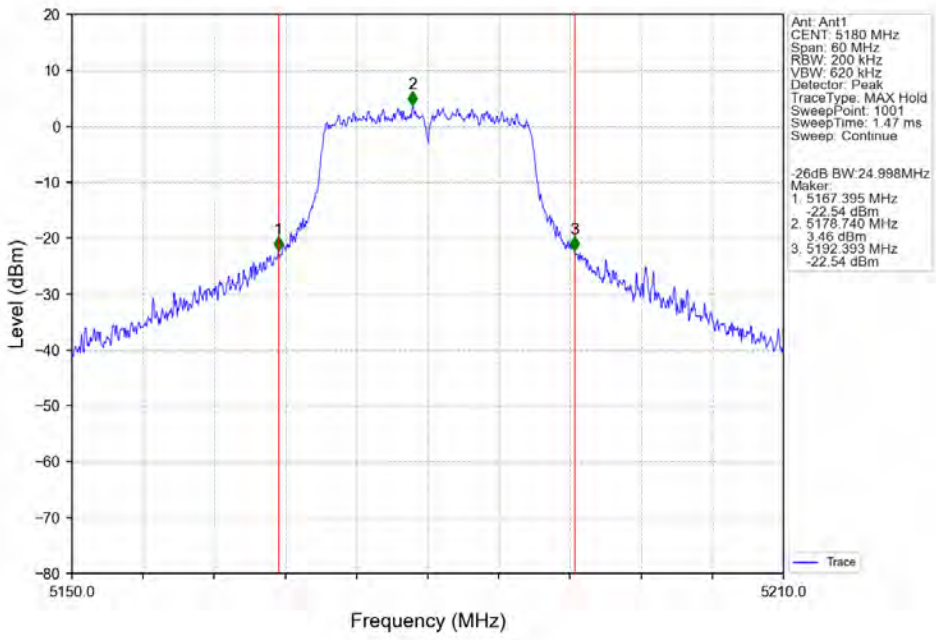
802.11a_MCH_5300MHz_Ant1_NTNV



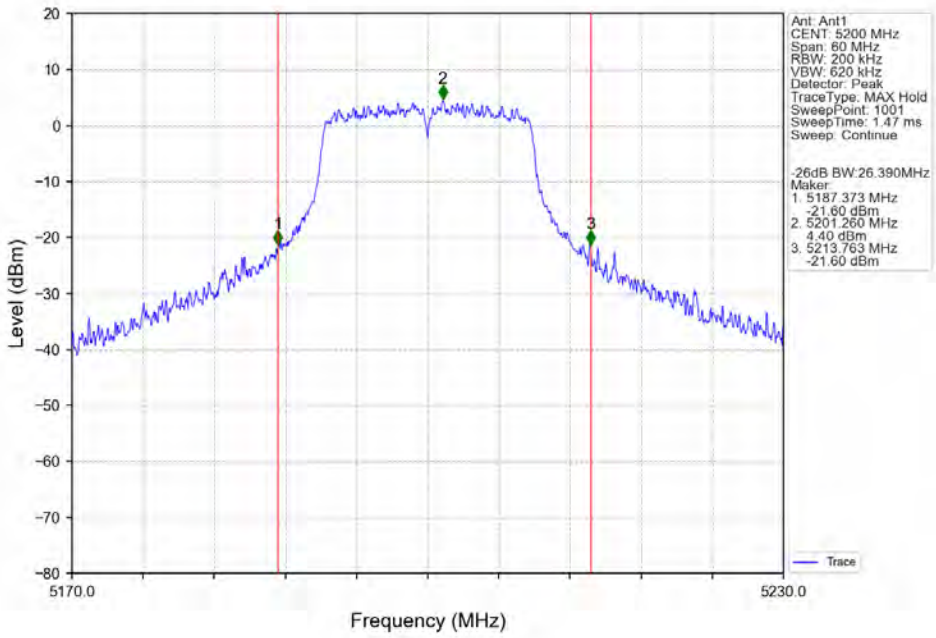
802.11a_HCH_5320MHz_Ant1_NTNV



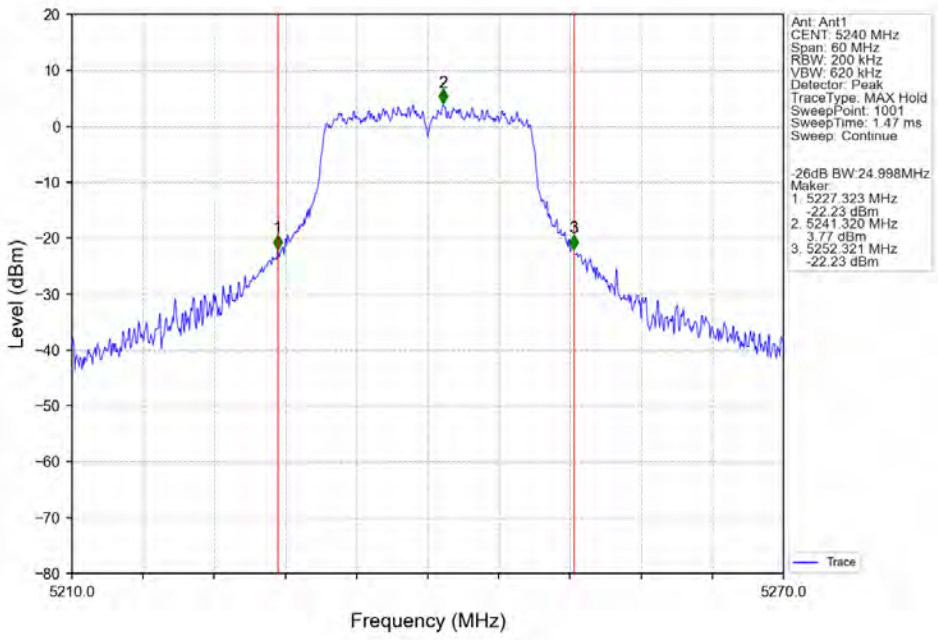
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



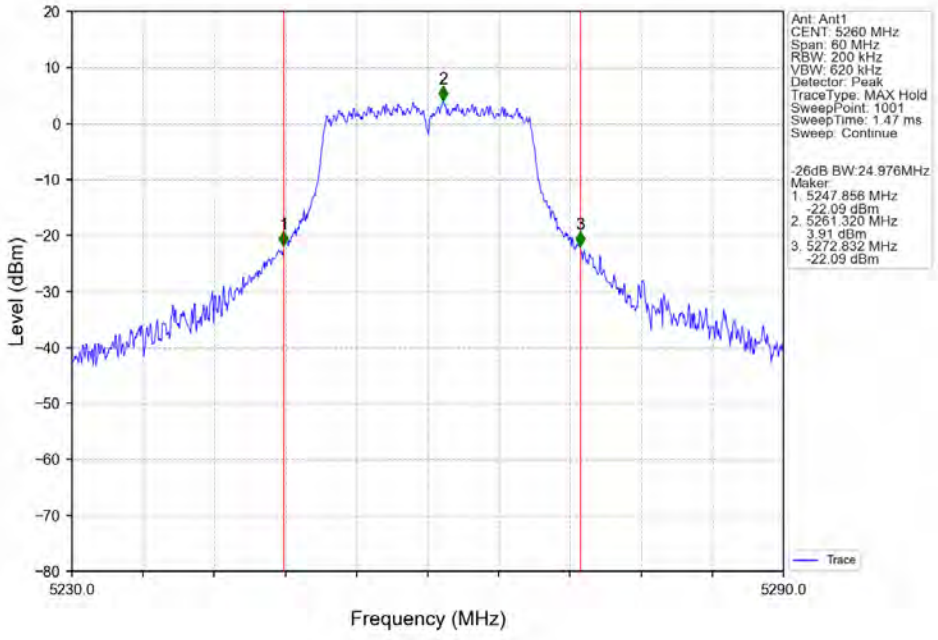
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



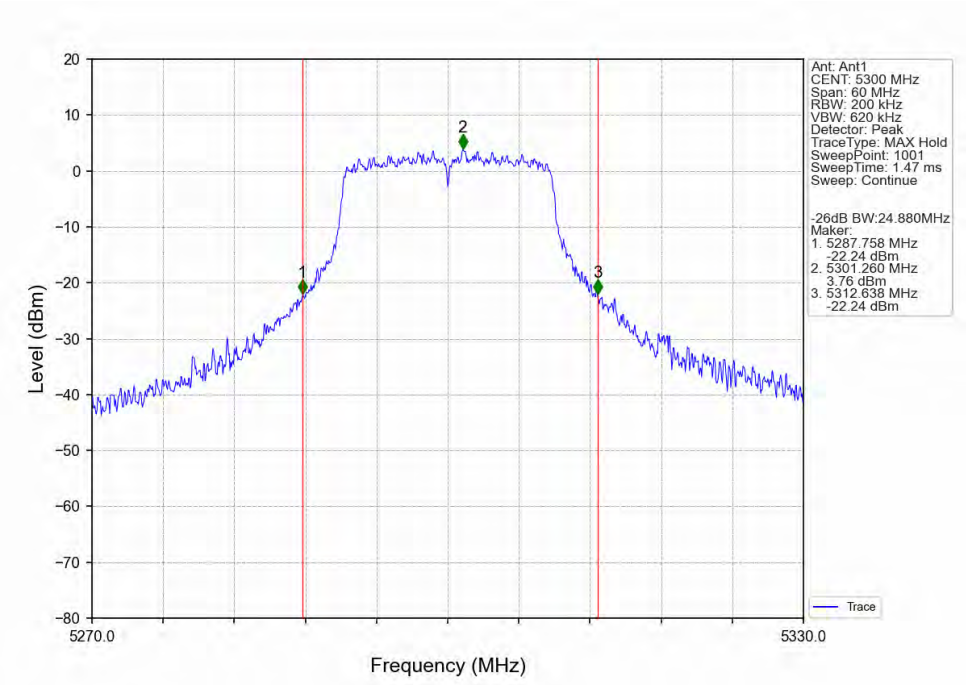
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



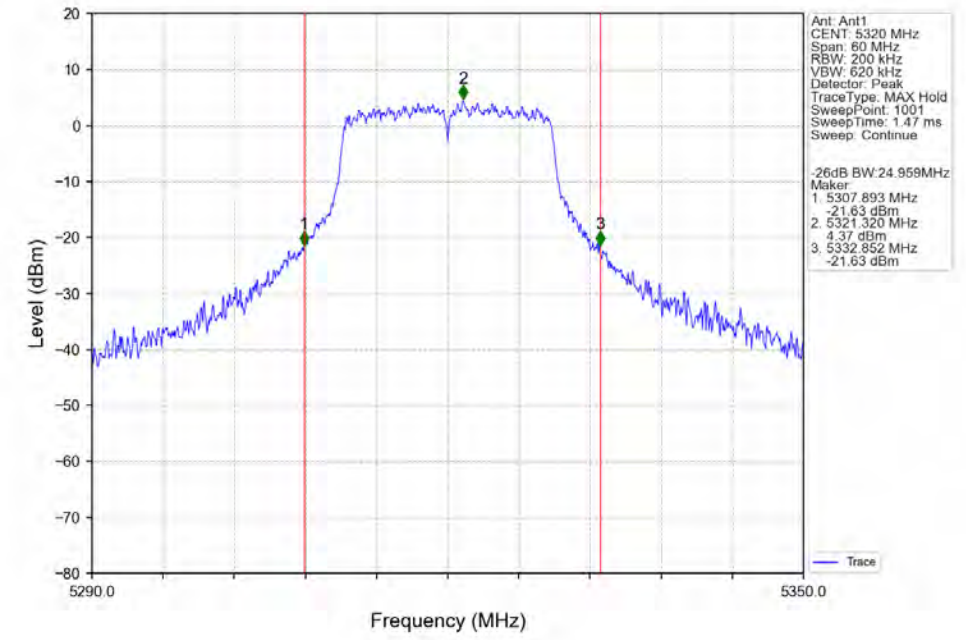
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



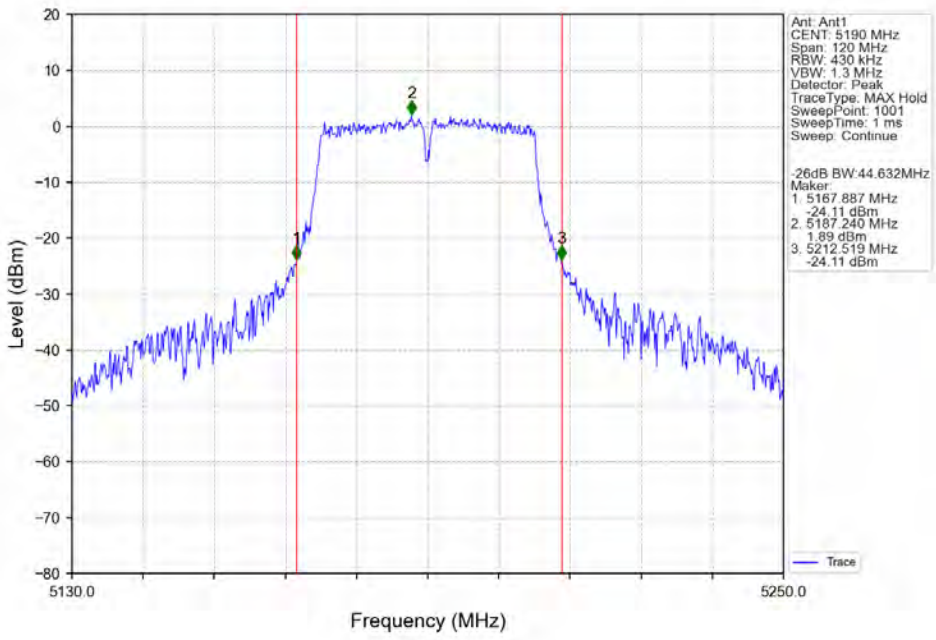
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



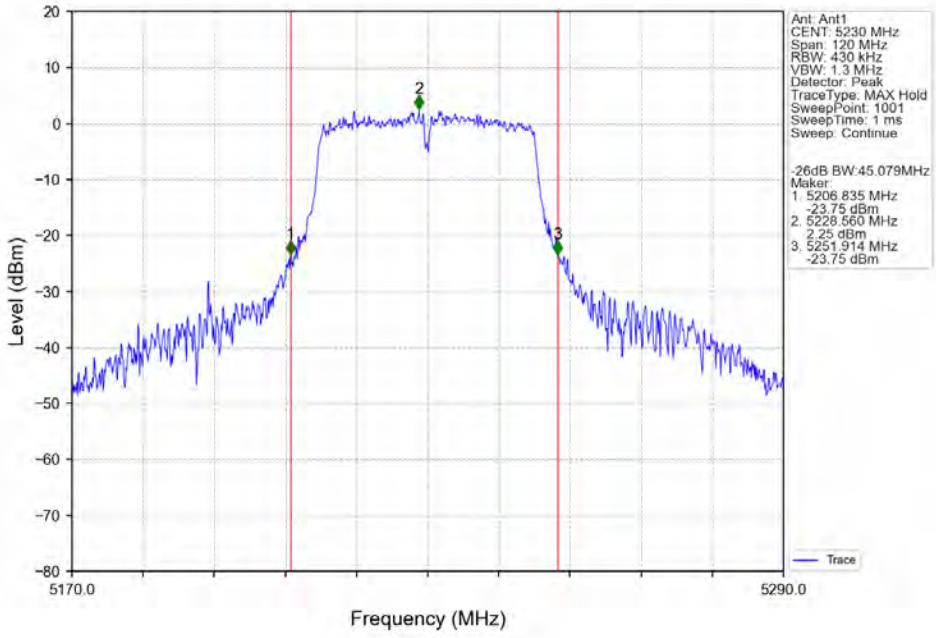
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



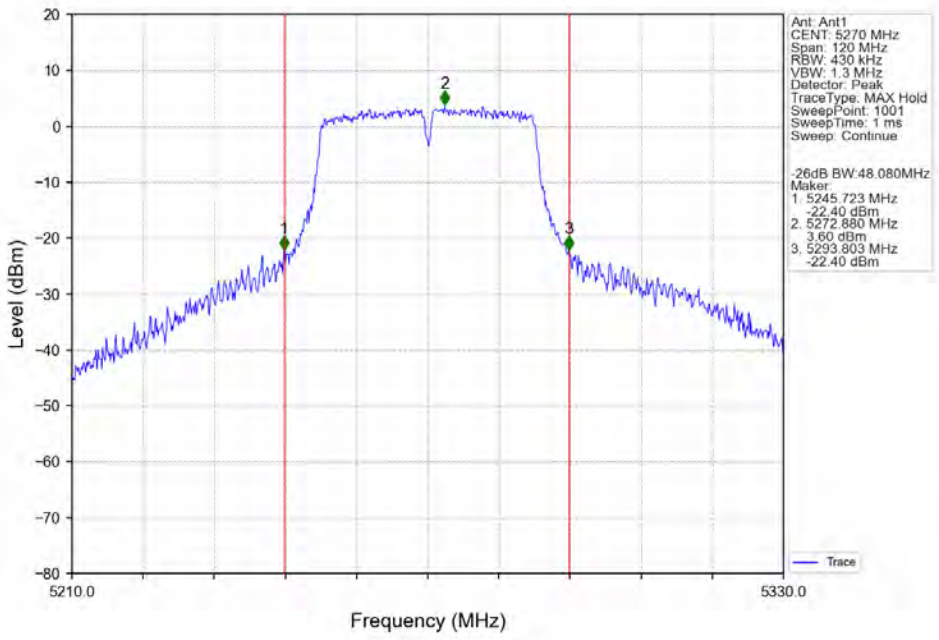
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



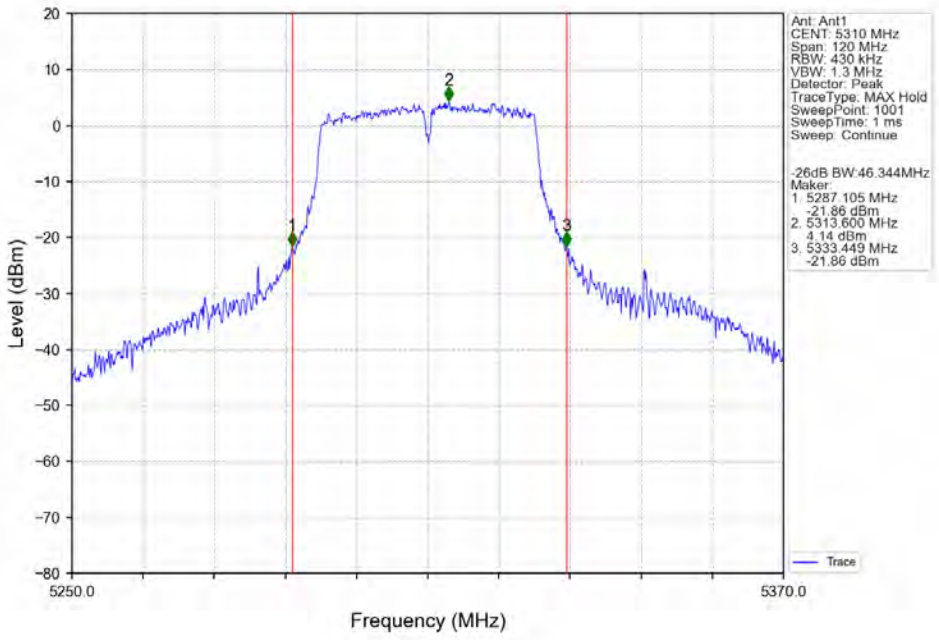
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



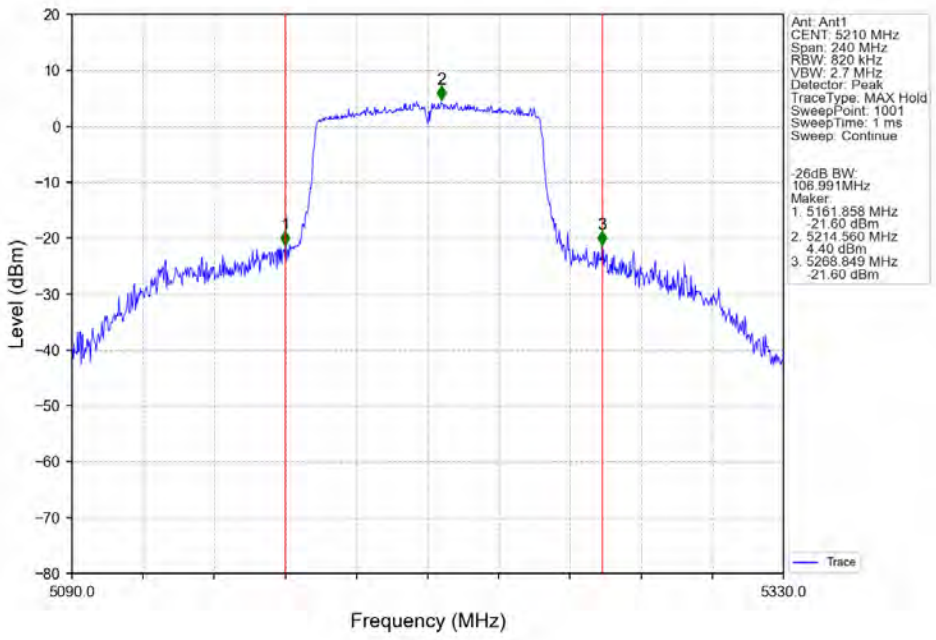
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



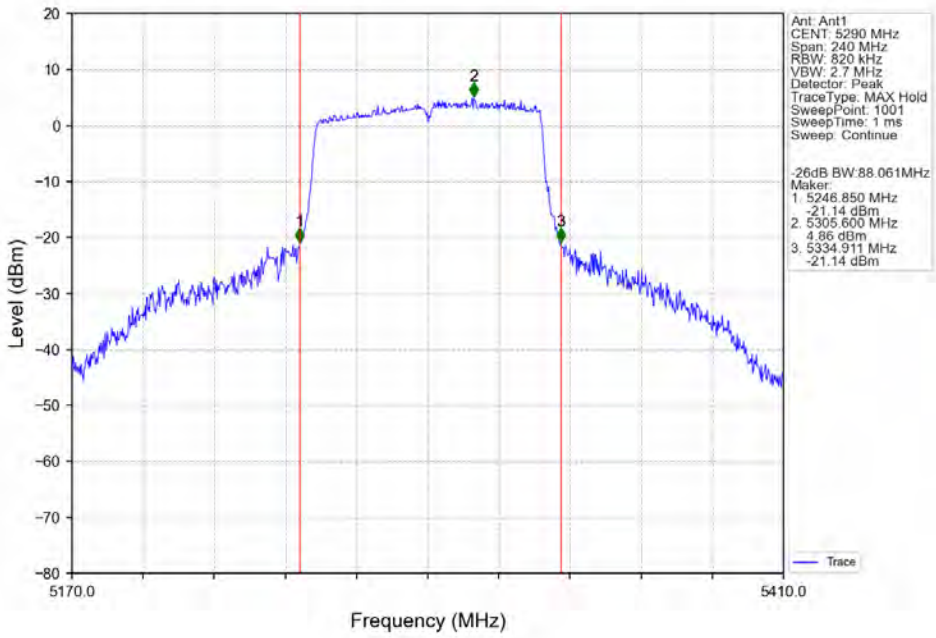
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



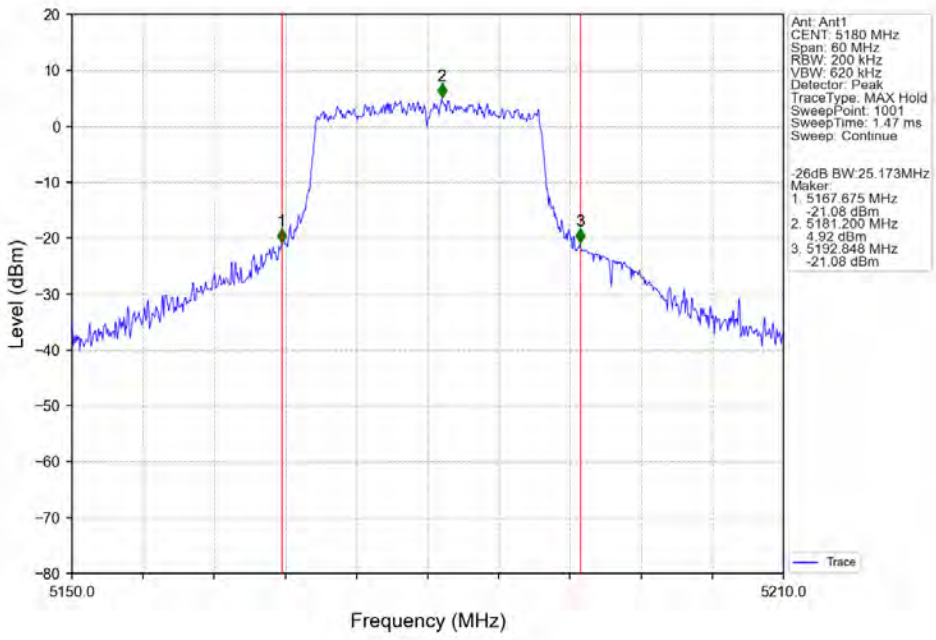
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ax(HE20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



802.11ax(HE20)_MCH_5200MHz_RU242_Left_Ant1_NTNV