

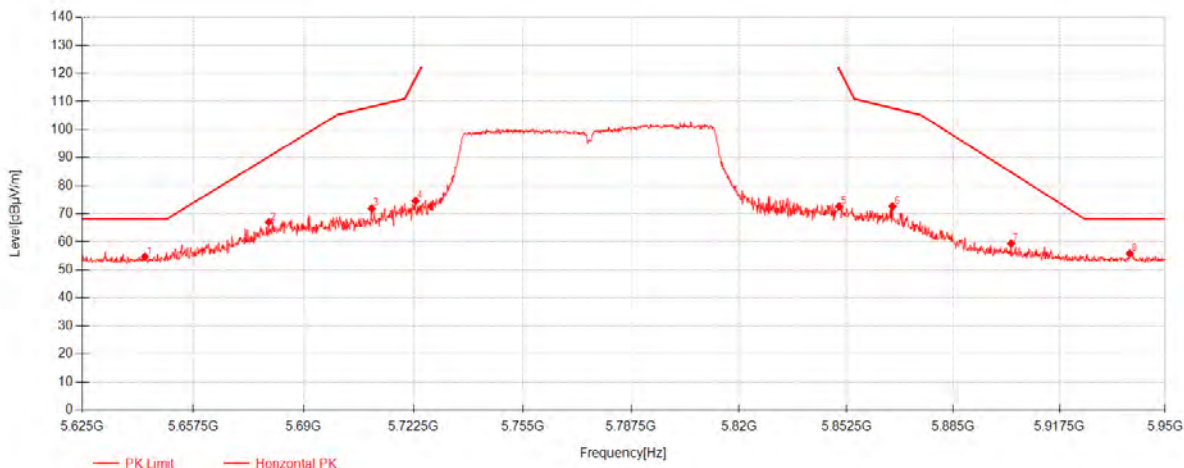
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802.11ac80_Channel 155



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5643.3625	41.07	32.33	-18.72	54.67	68.30	13.63	Horizontal
2	5679.7625	53.42	32.34	-18.73	67.03	90.36	23.33	Horizontal
3	5710.15	58.30	32.34	-18.76	71.88	108.14	36.26	Horizontal
4	5723.15	61.00	32.34	-18.80	74.55	118.08	43.53	Horizontal
5	5850.225	59.11	32.37	-18.88	72.60	121.79	49.19	Horizontal
6	5866.475	59.08	32.37	-18.84	72.62	107.68	35.06	Horizontal
7	5902.7125	45.78	32.38	-18.75	59.41	84.75	25.34	Horizontal
8	5939.1125	42.21	32.39	-18.82	55.78	68.30	12.52	Horizontal

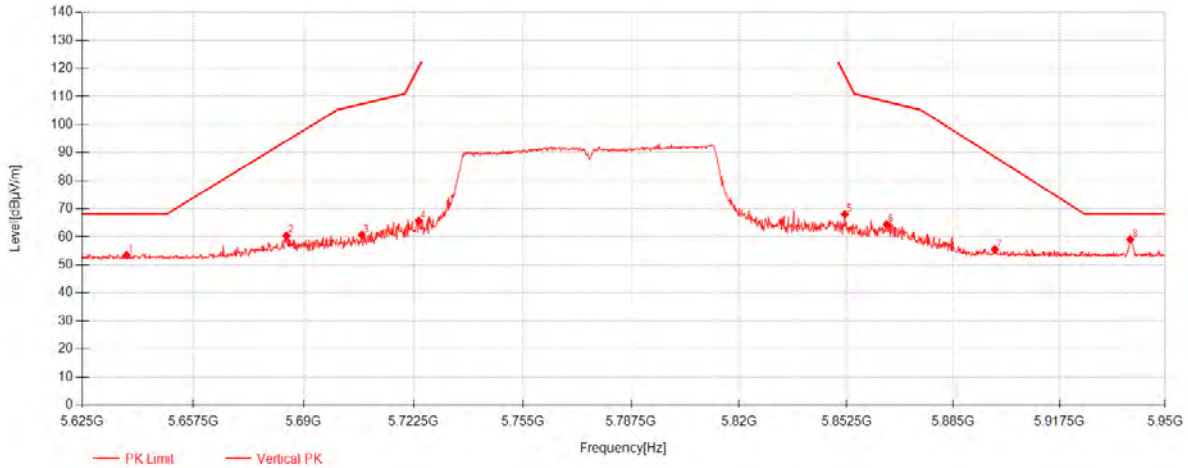
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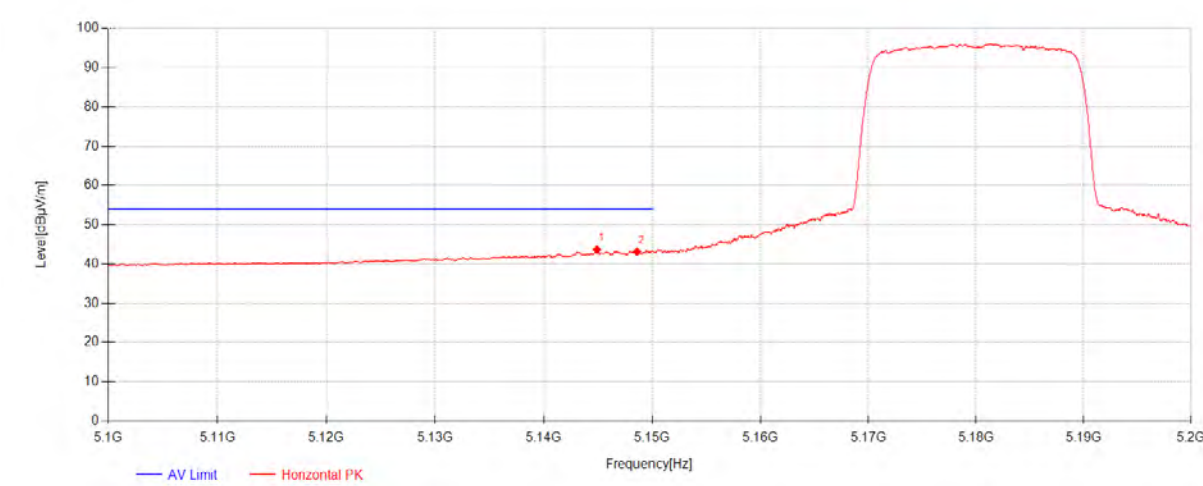


Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638	39.88	32.33	-18.72	53.48	68.30	14.82	Vertical
2	5684.9625	46.85	32.34	-18.73	60.46	94.21	33.75	Vertical
3	5707.225	47.11	32.34	-18.75	60.70	107.33	46.63	Vertical
4	5724.125	52.10	32.34	-18.80	65.64	120.31	54.67	Vertical
5	5852.0125	54.54	32.37	-18.88	68.03	117.71	49.68	Vertical
6	5864.6875	50.83	32.37	-18.84	64.36	108.19	43.83	Vertical
7	5897.675	41.88	32.38	-18.75	55.51	88.48	32.97	Vertical
8	5939.275	45.52	32.39	-18.82	59.09	68.30	9.21	Vertical

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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	5144.9	31.17	31.66	-19.15	43.68	54.00	10.32	Horizontal
2	5148.6	30.65	31.67	-19.14	43.17	54.00	10.83	Horizontal

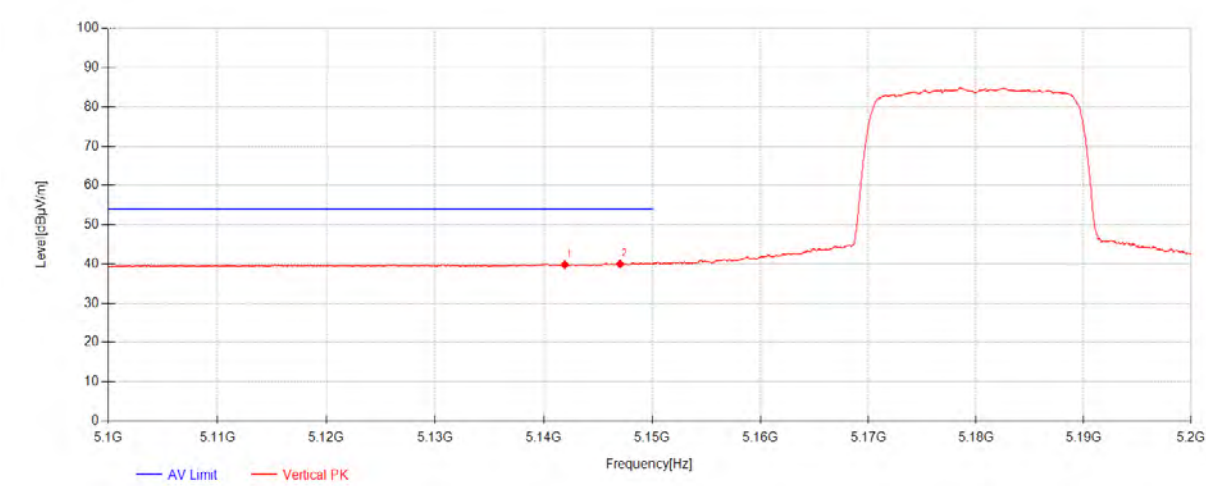
Compliance Certification Services (Kunshan) Inc.

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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	5141.9333	27.30	31.66	-19.16	39.80	54.00	14.20	Vertical
2	5147.0333	27.47	31.66	-19.15	39.99	54.00	14.01	Vertical

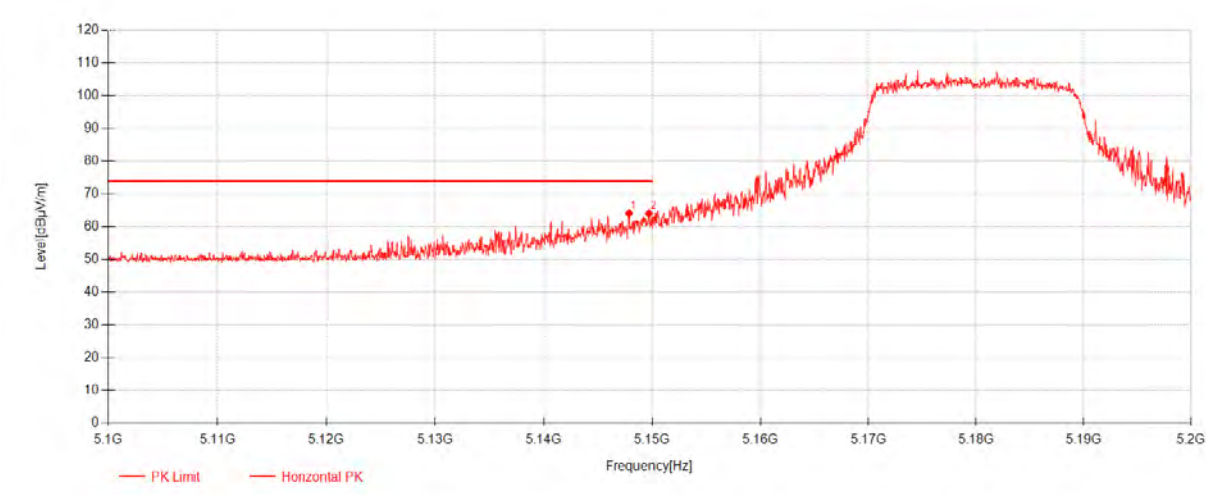
Compliance Certification Services (Kunshan) Inc.

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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	5147.8667	51.55	31.67	-19.15	64.07	74.00	9.93	Horizontal
2	5149.7	51.47	31.67	-19.14	64.00	74.00	10.00	Horizontal

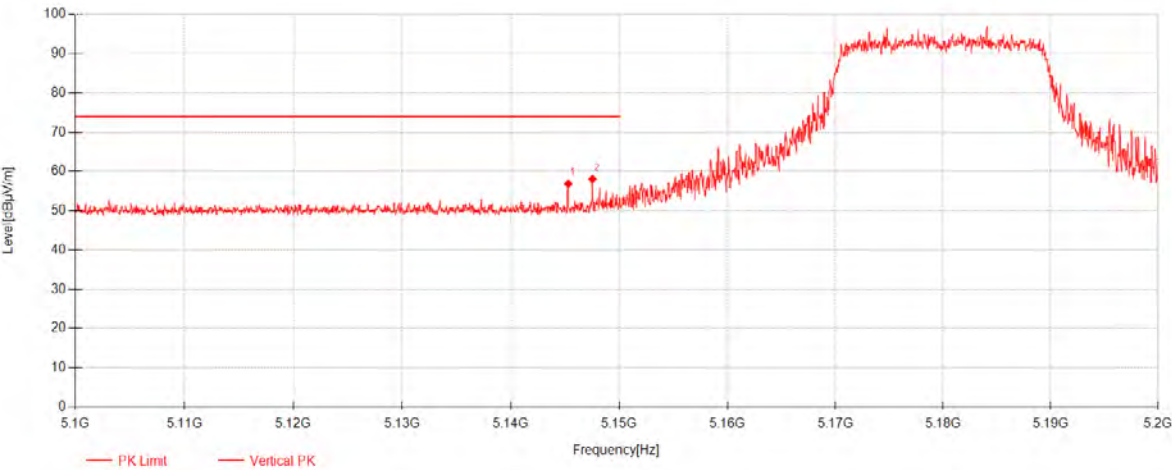
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5145.3	44.36	31.66	-19.15	56.87	74.00	17.13	Vertical
2	5147.5333	45.52	31.67	-19.15	58.04	74.00	15.96	Vertical

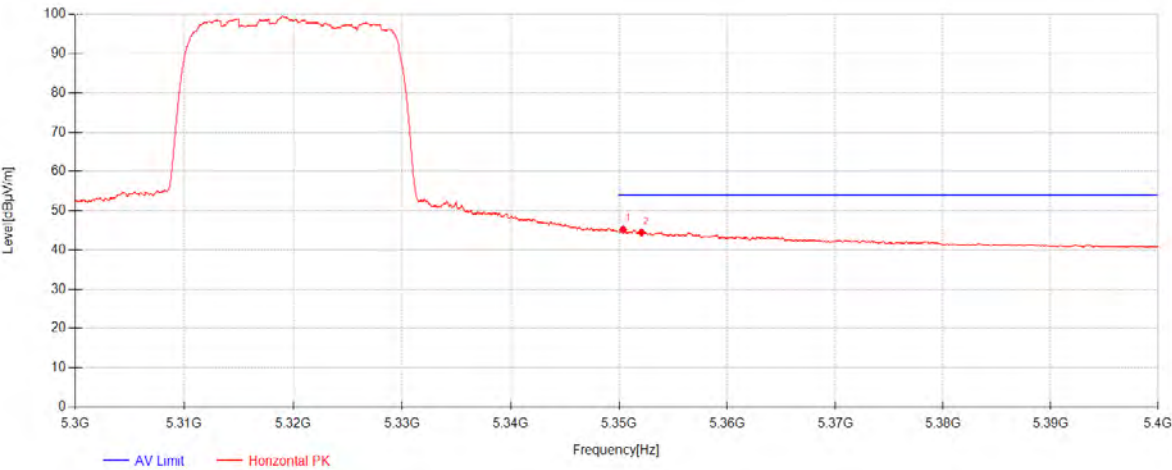
Compliance Certification Services (Kunshan) Inc.

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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	5350.3667	32.06	32.03	-18.90	45.19	54.00	8.81	Horizontal
2	5352.0667	31.35	32.03	-18.90	44.48	54.00	9.52	Horizontal

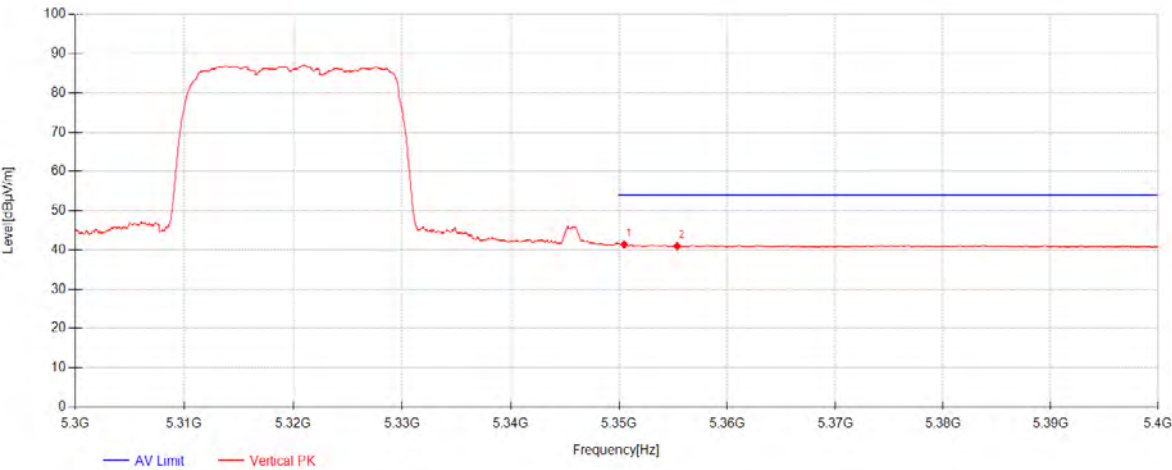
Compliance Certification Services (Kunshan) Inc.

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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	5350.4667	28.29	32.03	-18.90	41.42	54.00	12.58	Vertical
2	5355.3667	27.88	32.04	-18.91	41.01	54.00	12.99	Vertical

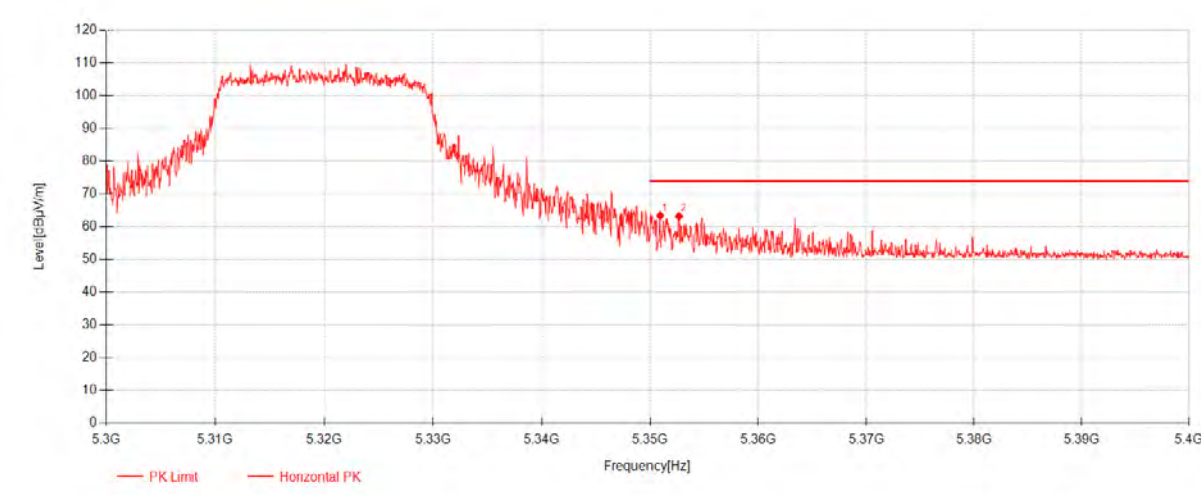
Compliance Certification Services (Kunshan) Inc.

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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	5350.9333	50.23	32.03	-18.90	63.36	74.00	10.64	Horizontal
2	5352.6667	50.06	32.03	-18.91	63.19	74.00	10.81	Horizontal

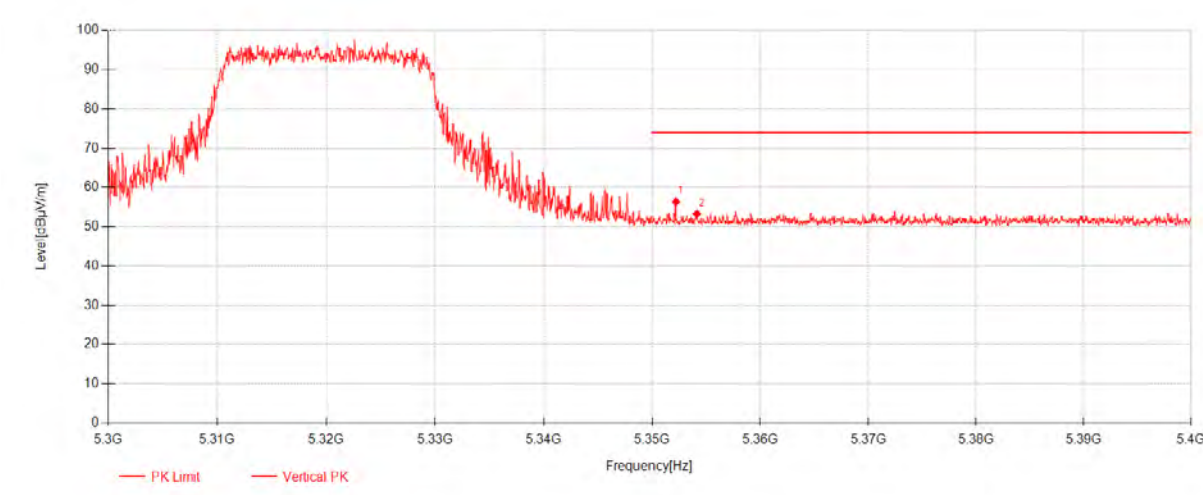
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5352.2	43.25	32.03	-18.91	56.38	74.00	17.62	Vertical
2	5354.1333	40.11	32.04	-18.91	53.24	74.00	20.76	Vertical

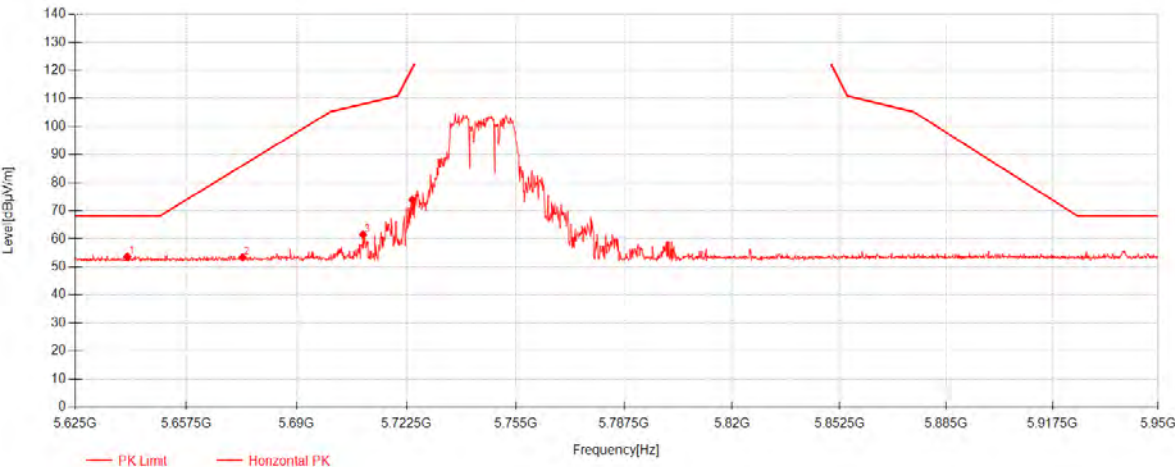
Compliance Certification Services (Kunshan) Inc.

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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	5640.275	40.07	32.33	-18.72	53.67	68.30	14.63	Horizontal
2	5674.075	39.75	32.33	-18.73	53.36	86.16	32.80	Horizontal
3	5709.6625	47.92	32.34	-18.76	61.50	108.01	46.51	Horizontal
4	5724.2875	60.31	32.34	-18.80	73.85	120.68	46.83	Horizontal

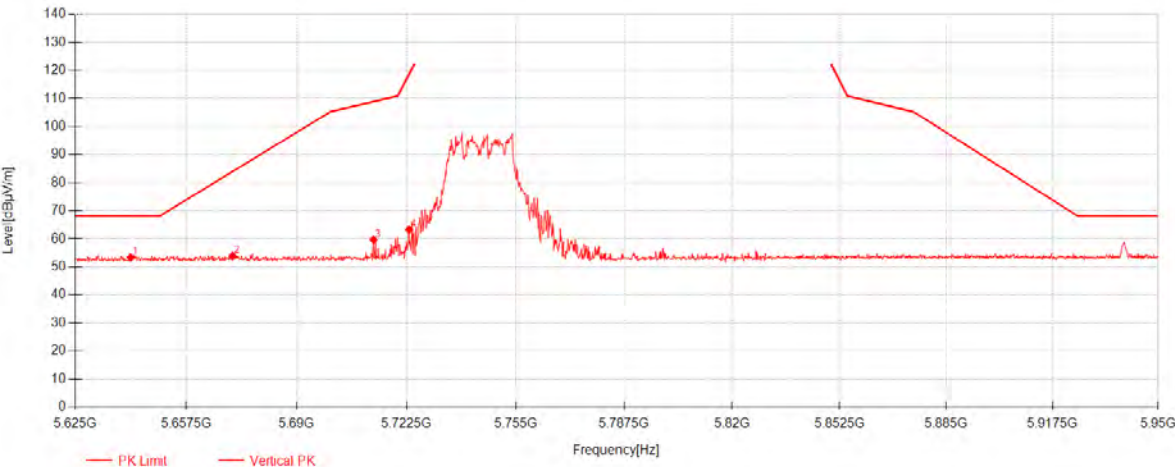
Compliance Certification Services (Kunshan) Inc.

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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	5641.25	39.74	32.33	-18.72	53.34	68.30	14.96	Vertical
2	5671.15	40.32	32.33	-18.73	53.93	83.99	30.06	Vertical
3	5712.75	46.17	32.34	-18.77	59.74	108.87	49.13	Vertical
4	5723.3125	49.71	32.34	-18.80	63.25	118.45	55.20	Vertical

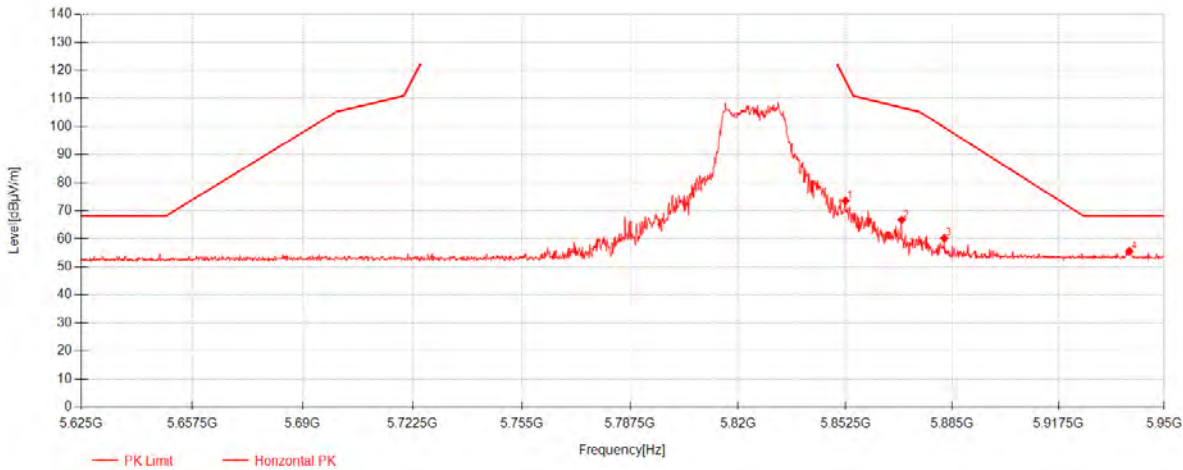
Compliance Certification Services (Kunshan) Inc.

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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	60.06	32.37	-18.88	73.55	116.60	43.05	Horizontal
2	5869.5625	53.19	32.37	-18.83	66.74	106.82	40.08	Horizontal
3	5882.5625	46.62	32.38	-18.79	60.21	99.68	39.47	Horizontal
4	5939.275	42.00	32.39	-18.82	55.57	68.30	12.73	Horizontal

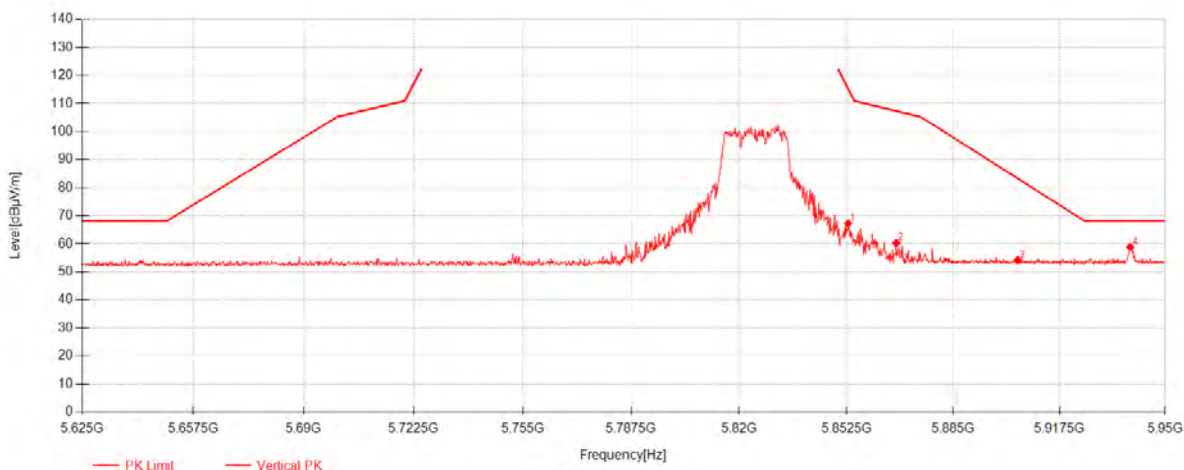
Compliance Certification Services (Kunshan) Inc.

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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	53.79	32.37	-18.88	67.28	115.49	48.21	Vertical
2	5867.6125	46.73	32.37	-18.83	60.27	107.37	47.10	Vertical
3	5904.6625	40.53	32.38	-18.75	54.16	83.31	29.15	Vertical
4	5939.275	45.33	32.39	-18.82	58.90	68.30	9.40	Vertical

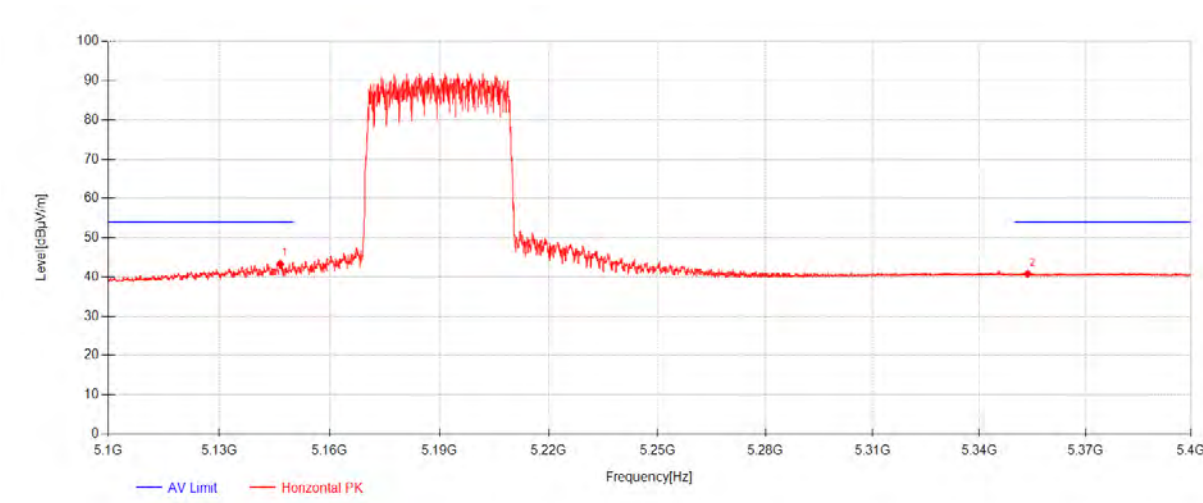
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5146.56	30.81	31.66	-19.15	43.33	54.00	10.67	Horizontal
2	5353.6425	27.66	32.04	-18.91	40.79	54.00	13.21	Horizontal

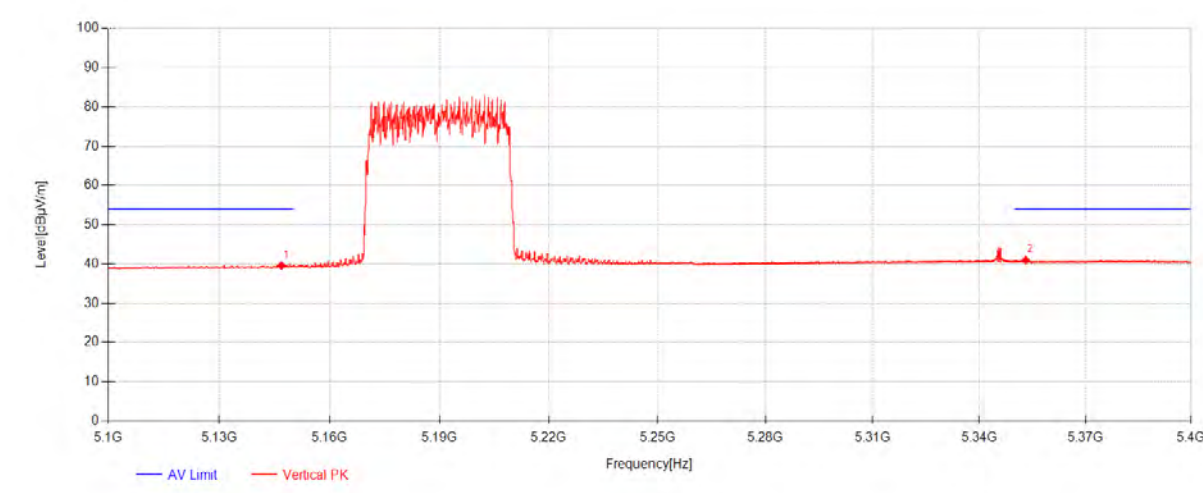
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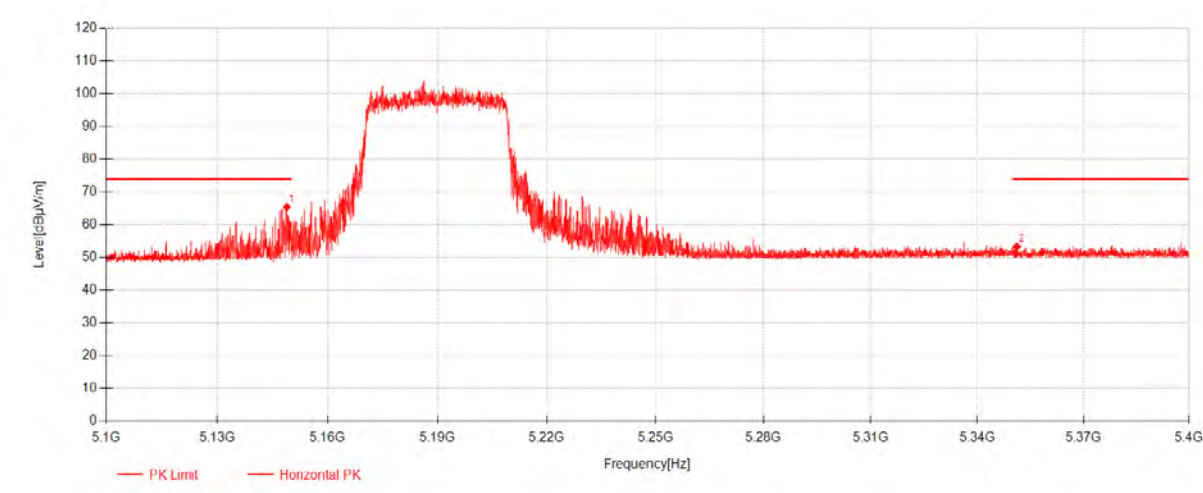


Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5146.88	27.06	31.66	-19.15	39.58	54.00	14.42	Vertical
2	5353.065	27.89	32.04	-18.91	41.02	54.00	12.98	Vertical

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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	5148.88	52.86	31.67	-19.14	65.39	74.00	8.61	Horizontal
2	5351.1575	40.19	32.03	-18.90	53.32	74.00	20.68	Horizontal

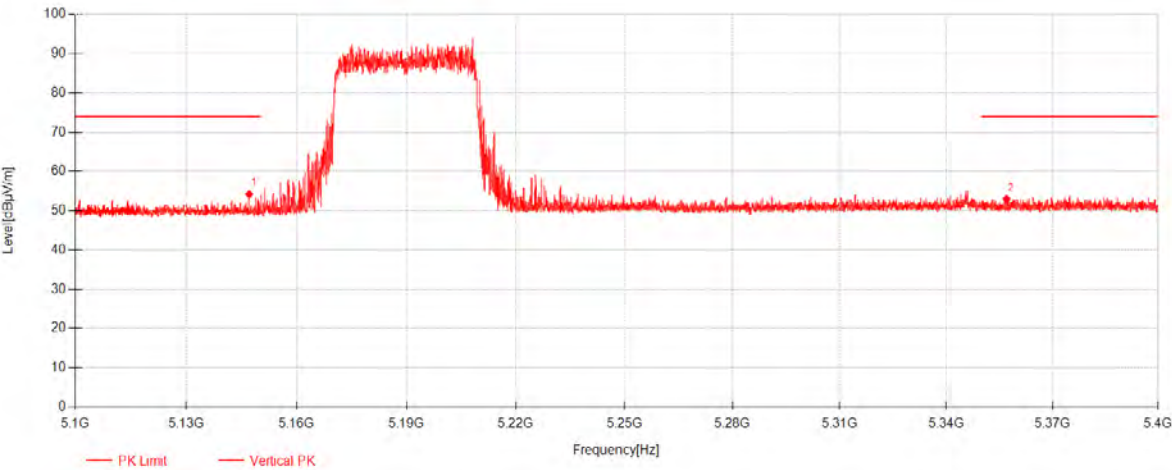
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.08	41.69	31.66	-19.15	54.21	74.00	19.79	Vertical
2	5356.9675	39.80	32.04	-18.92	52.93	74.00	21.07	Vertical

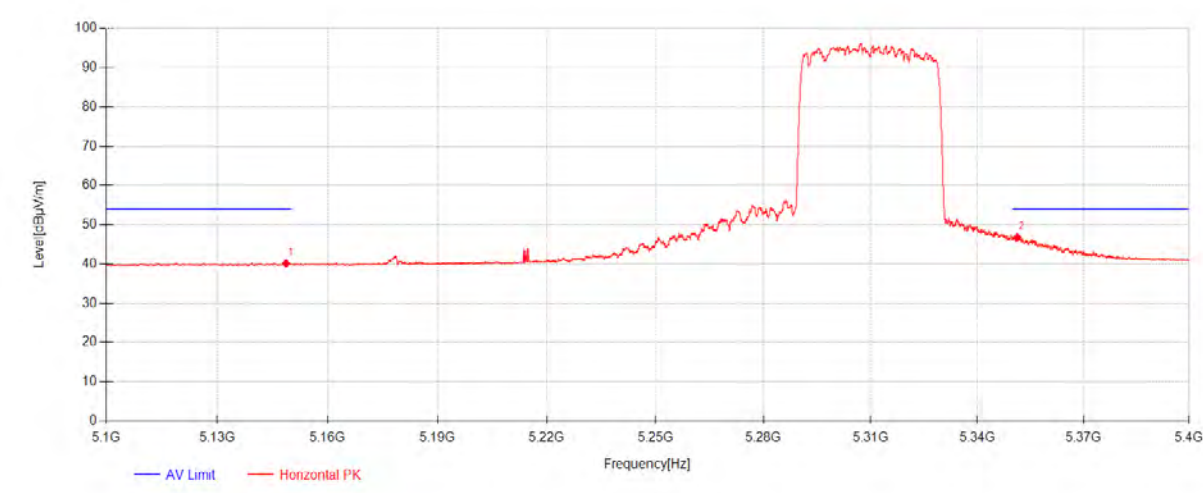
Compliance Certification Services (Kunshan) Inc.

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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	5148.7	27.59	31.67	-19.14	40.11	54.00	13.89	Horizontal
2	5351.275	33.61	32.03	-18.90	46.74	54.00	7.26	Horizontal

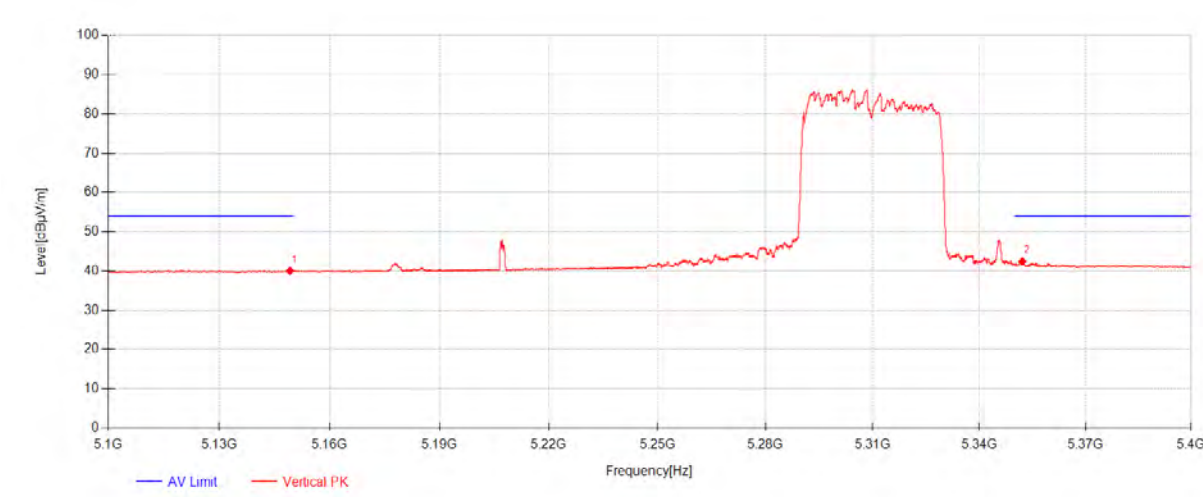
Compliance Certification Services (Kunshan) Inc.

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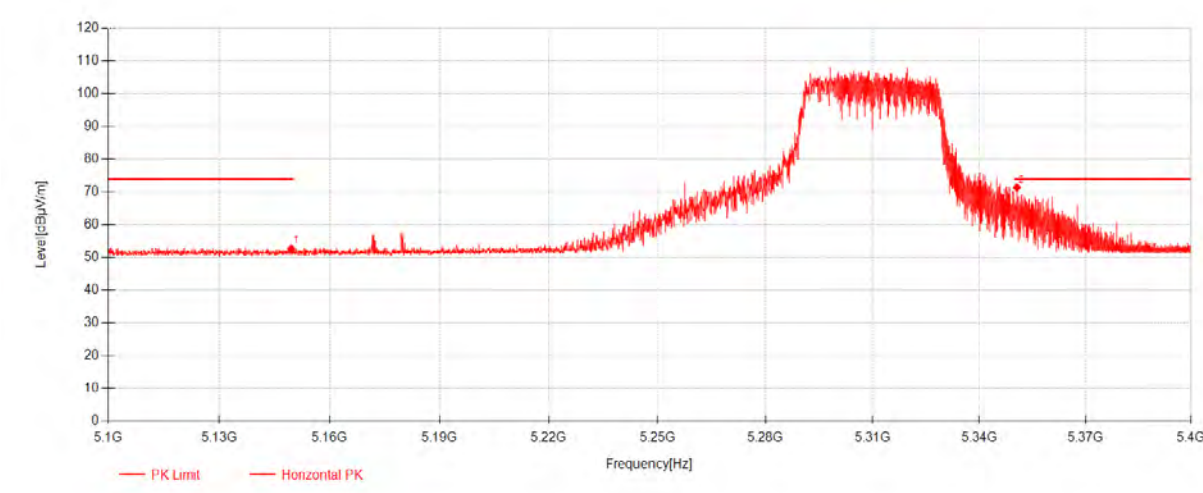


Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5149.2	27.49	31.67	-19.14	40.02	54.00	13.98	Vertical
2	5352.125	29.34	32.03	-18.91	42.47	54.00	11.53	Vertical

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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	5149.5333	40.17	31.67	-19.14	52.70	74.00	21.30	Horizontal
2	5350.6	58.23	32.03	-18.90	71.36	74.00	2.64	Horizontal

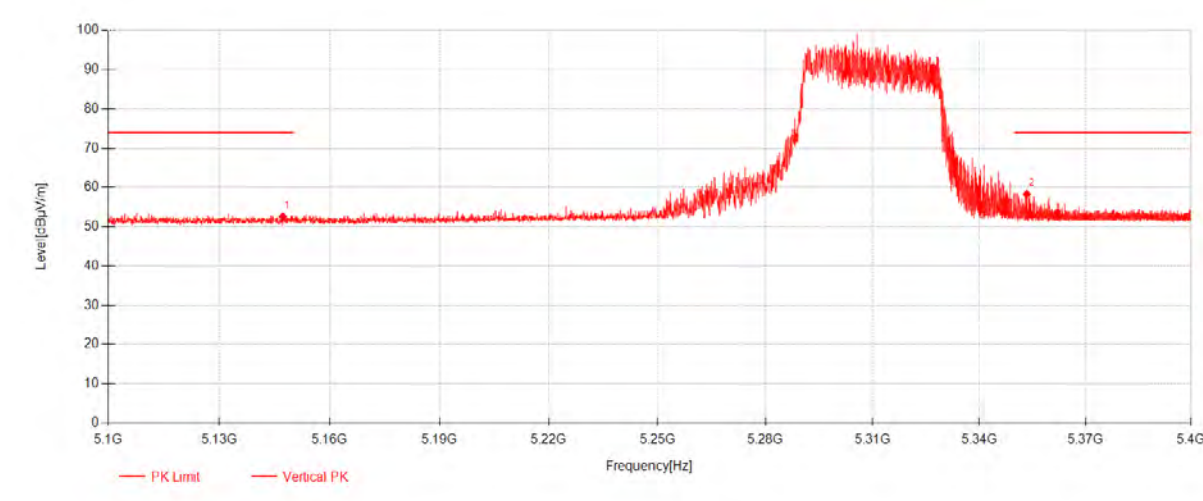
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.2667	40.04	31.67	-19.15	52.56	74.00	21.44	Vertical
2	5353.4	45.15	32.04	-18.91	58.28	74.00	15.72	Vertical

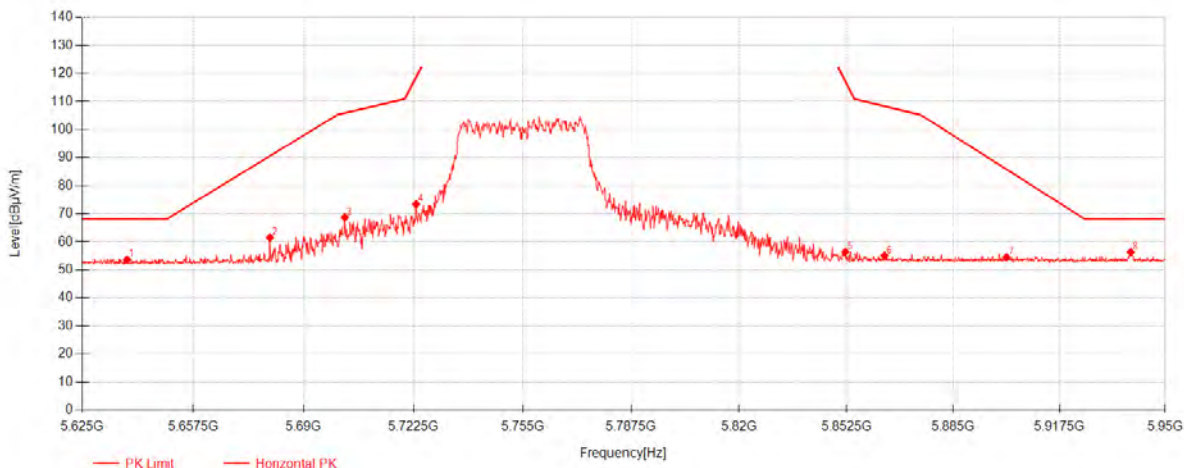
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802.11ax40_Channel 151



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638.1625	40.05	32.33	-18.72	53.65	68.30	14.65	Horizontal
2	5680.0875	47.92	32.34	-18.73	61.53	90.60	29.07	Horizontal
3	5702.1875	55.15	32.34	-18.74	68.75	105.91	37.16	Horizontal
4	5723.3125	59.85	32.34	-18.80	73.39	118.45	45.06	Horizontal
5	5852.175	42.90	32.37	-18.88	56.39	117.34	60.95	Horizontal
6	5864.0375	41.49	32.37	-18.84	55.02	108.37	53.35	Horizontal
7	5901.25	40.86	32.38	-18.74	54.50	85.84	31.34	Horizontal
8	5939.4375	42.73	32.39	-18.82	56.30	68.30	12.00	Horizontal

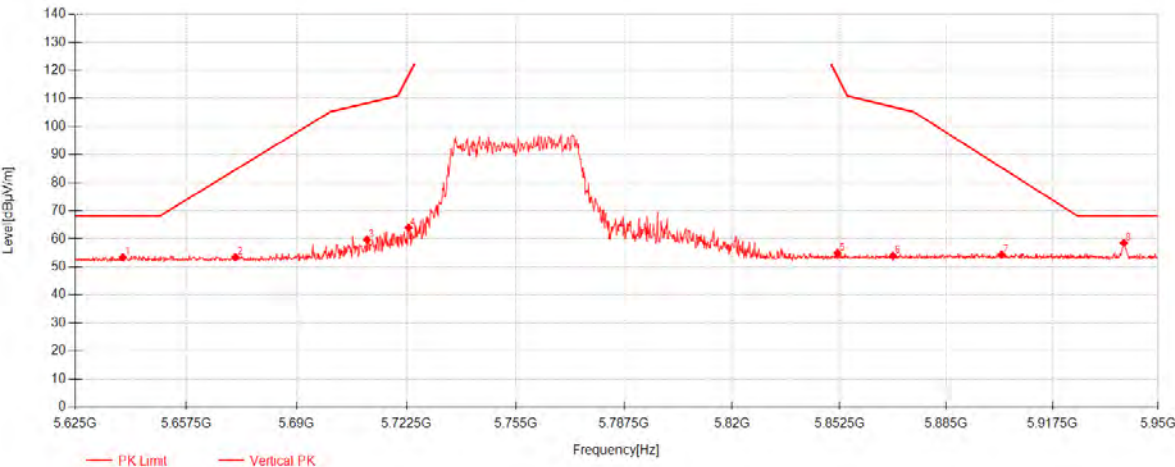
Compliance Certification Services (Kunshan) Inc.

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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	5638.975	39.77	32.33	-18.72	53.37	68.30	14.93	Vertical
2	5671.9625	39.86	32.33	-18.73	53.47	84.59	31.12	Vertical
3	5710.8	46.14	32.34	-18.76	59.72	108.33	48.61	Vertical
4	5723.15	50.36	32.34	-18.80	63.91	118.08	54.17	Vertical
5	5851.85	41.37	32.37	-18.88	54.86	118.08	63.22	Vertical
6	5868.75	40.35	32.37	-18.83	53.89	107.05	53.16	Vertical
7	5901.9	40.73	32.38	-18.74	54.37	85.36	30.99	Vertical
8	5939.4375	44.97	32.39	-18.82	58.54	68.30	9.76	Vertical

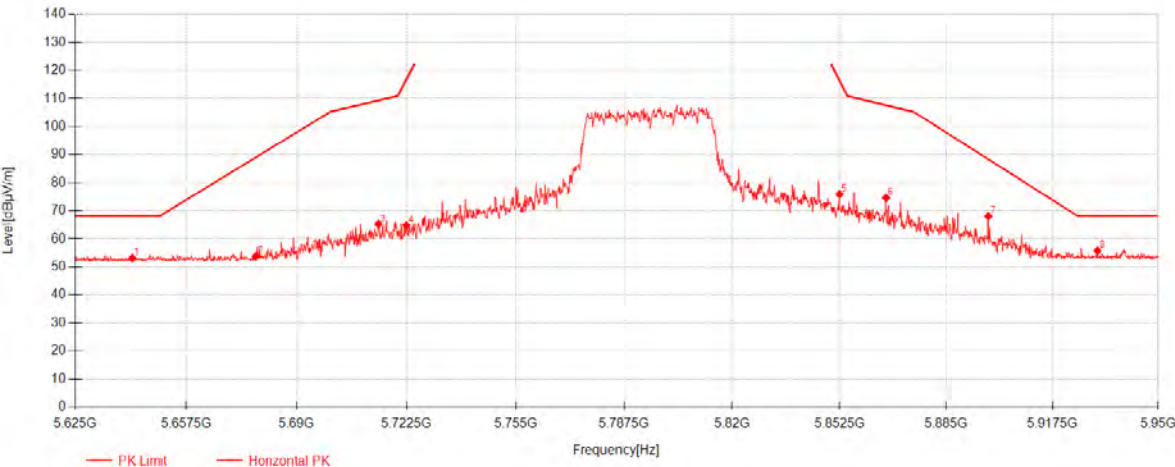
Compliance Certification Services (Kunshan) Inc.

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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	39.50	32.33	-18.72	53.10	68.30	15.20	Horizontal
2	5677.975	40.14	32.34	-18.73	53.75	89.04	35.29	Horizontal
3	5714.2125	51.67	32.34	-18.77	65.24	109.28	44.04	Horizontal
4	5722.5	51.12	32.34	-18.80	64.67	116.60	51.93	Horizontal
5	5852.5	62.38	32.37	-18.88	75.87	116.60	40.73	Horizontal
6	5866.6375	61.04	32.37	-18.84	74.58	107.64	33.06	Horizontal
7	5897.8375	54.41	32.38	-18.75	68.04	88.36	20.32	Horizontal
8	5931.3125	42.13	32.39	-18.81	55.71	68.30	12.59	Horizontal

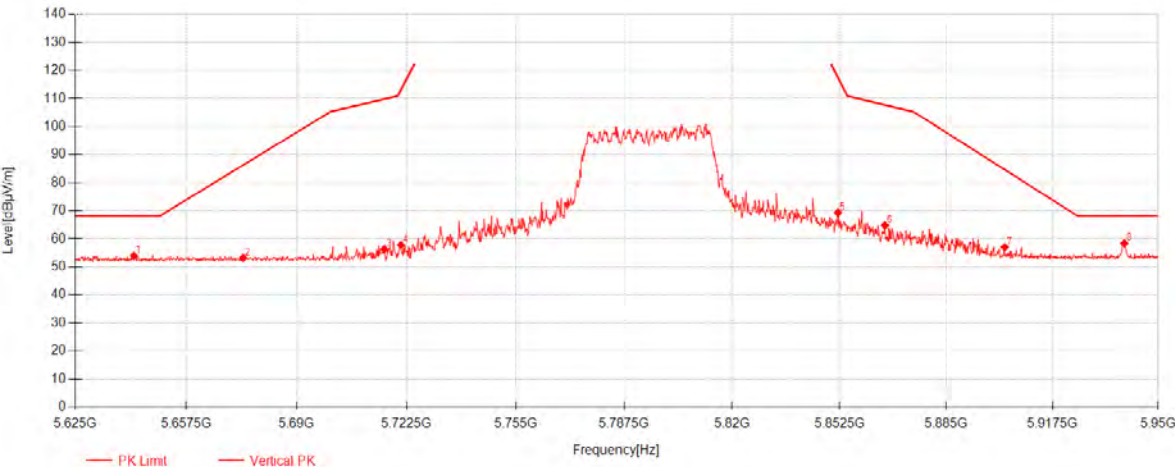
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802.11ax40_Channel 159



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5642.225	40.29	32.33	-18.72	53.89	68.30	14.41	Vertical
2	5674.2375	39.57	32.33	-18.73	53.18	86.28	33.10	Vertical
3	5716	42.73	32.34	-18.78	56.30	109.78	53.48	Vertical
4	5720.875	44.25	32.34	-18.79	57.80	112.90	55.10	Vertical
5	5852.0125	55.86	32.37	-18.88	69.35	117.71	48.36	Vertical
6	5866.3125	51.18	32.37	-18.84	64.72	107.73	43.01	Vertical
7	5902.875	43.38	32.38	-18.75	57.01	84.63	27.62	Vertical
8	5939.6	44.82	32.39	-18.82	58.38	68.30	9.92	Vertical

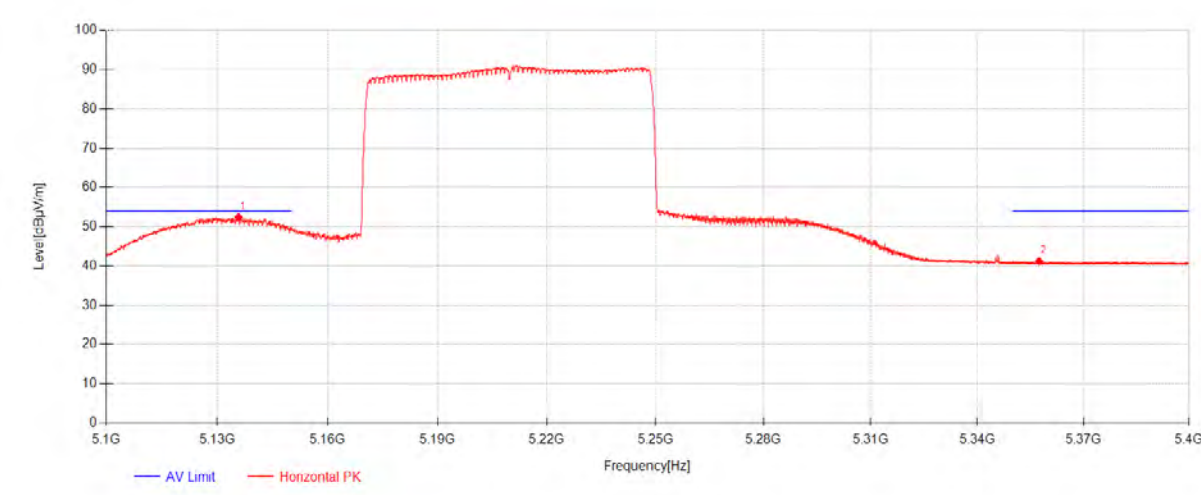
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802.11ax80_Channel 42



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5135.7867	39.93	31.64	-19.17	52.40	54.00	1.60	Horizontal
2	5357.44	28.12	32.04	-18.92	41.25	54.00	12.75	Horizontal

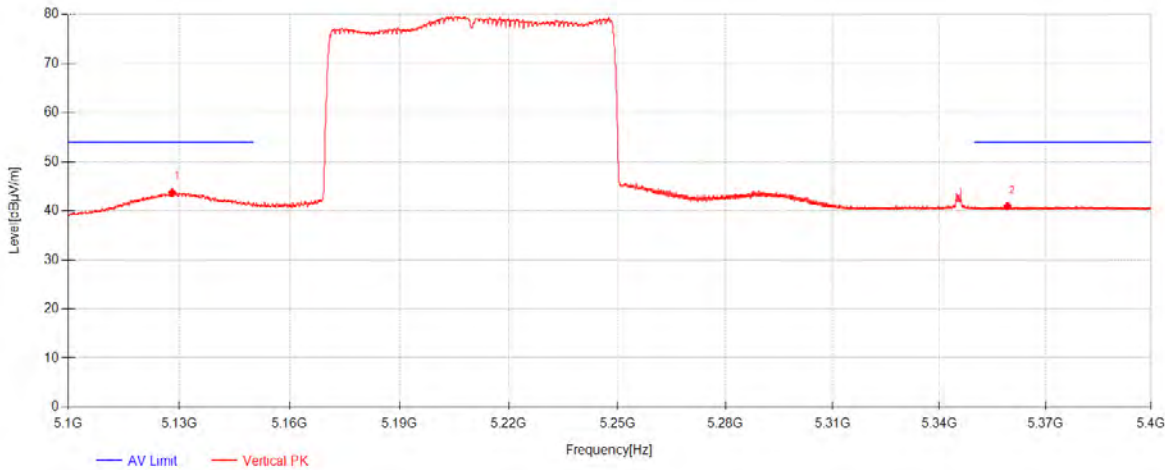
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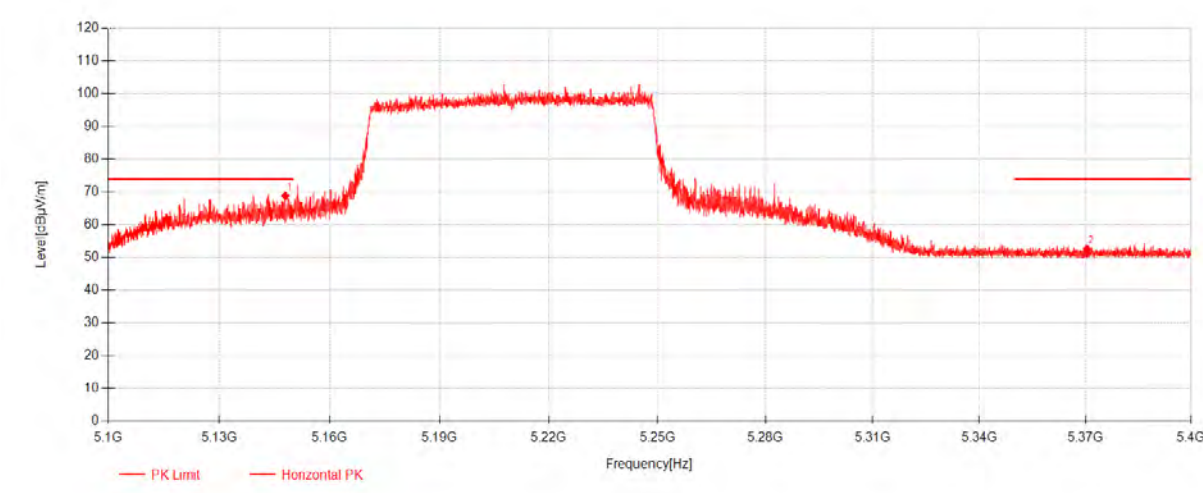
802.11ax80_Channel 42



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5128.1067	31.31	31.63	-19.19	43.75	54.00	10.25	Vertical
2	5359.2425	27.83	32.05	-18.92	40.95	54.00	13.05	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5147.94	56.31	31.67	-19.14	68.83	74.00	5.17	Horizontal
2	5370.4075	39.53	32.07	-18.95	52.65	74.00	21.35	Horizontal

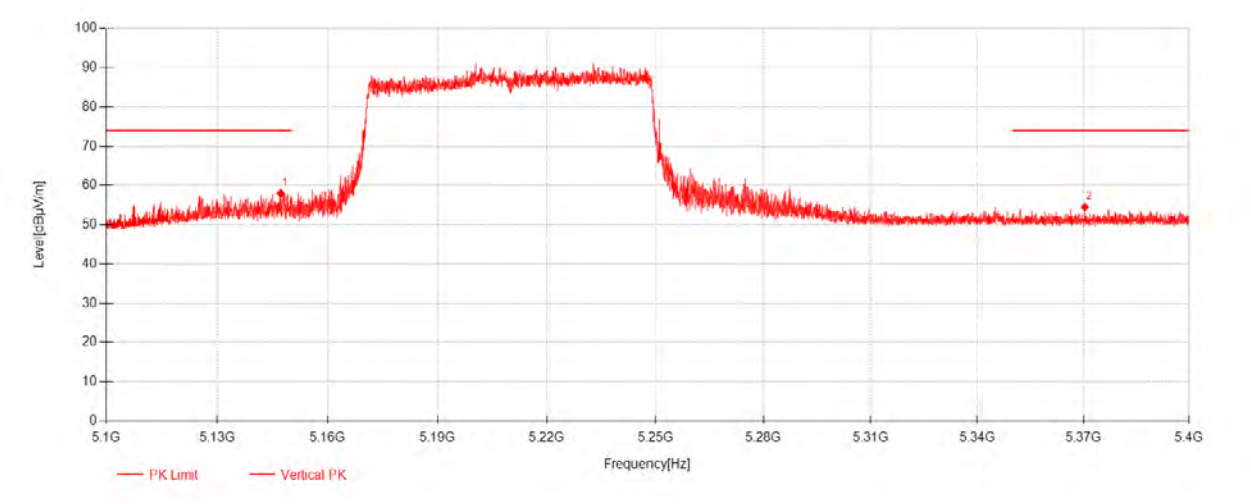
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802.11ax80_Channel 42



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.24	45.43	31.67	-19.15	57.95	74.00	16.05	Vertical
2	5370.3725	41.38	32.07	-18.95	54.50	74.00	19.50	Vertical

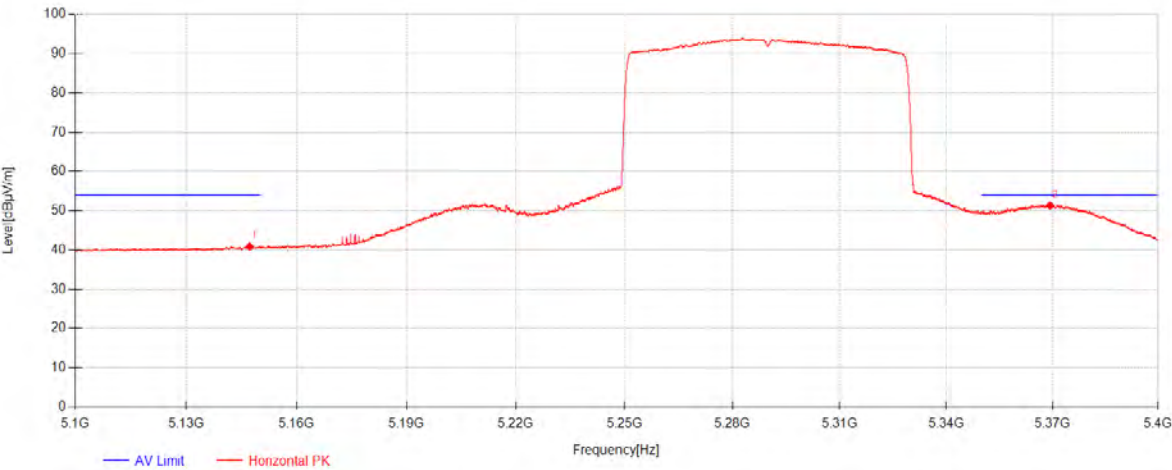
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5147.2	28.39	31.66	-19.15	40.91	54.00	13.09	Horizontal
2	5369.3	38.24	32.06	-18.95	51.36	54.00	2.64	Horizontal

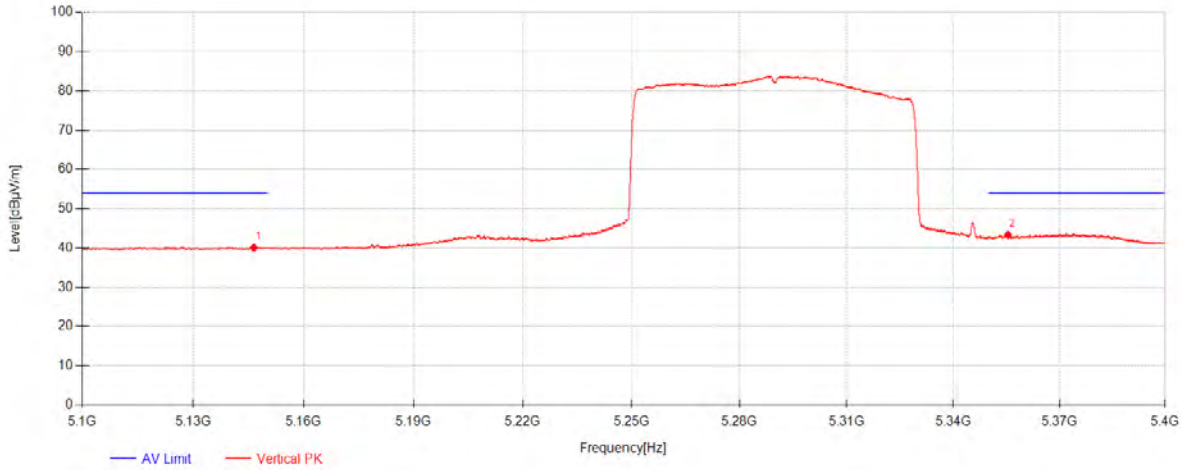
Compliance Certification Services (Kunshan) Inc.

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802.11ax80_Channel 58



Data List

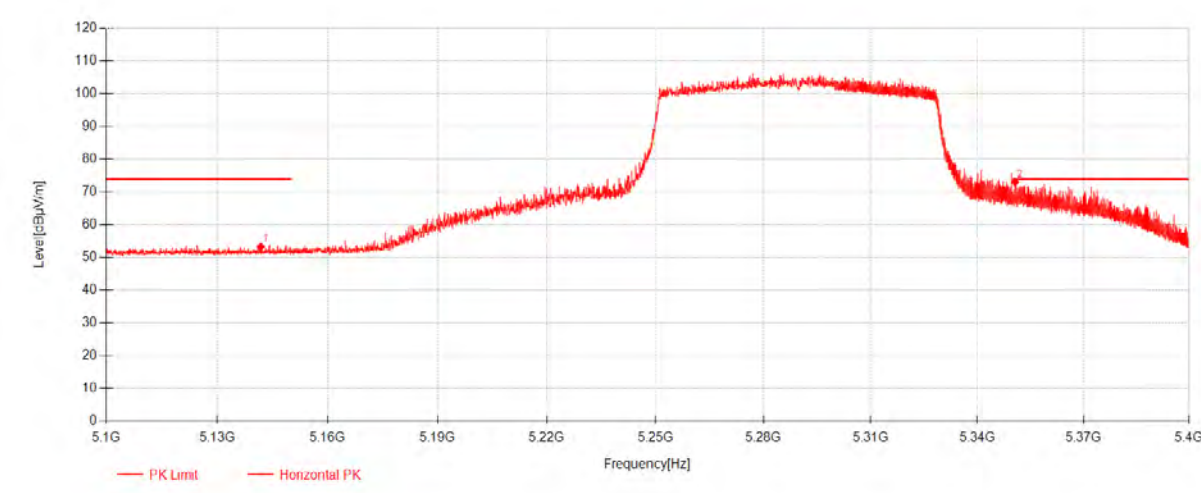
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5146.45	27.54	31.66	-19.15	40.06	54.00	13.94	Vertical
2	5355.425	30.24	32.04	-18.91	43.37	54.00	10.63	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5141.8	40.76	31.66	-19.16	53.26	74.00	20.74	Horizontal
2	5350.65	59.86	32.03	-18.90	72.99	74.00	1.01	Horizontal

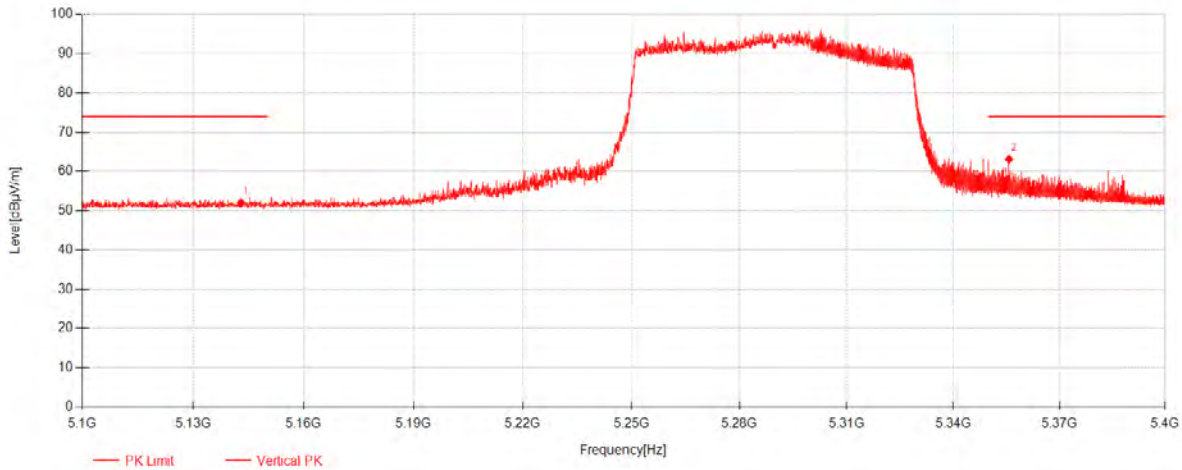
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802.11ax80_Channel 58



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5142.9333	39.54	31.66	-19.16	52.04	74.00	21.96	Vertical
2	5355.7125	50.02	32.04	-18.91	63.15	74.00	10.85	Vertical

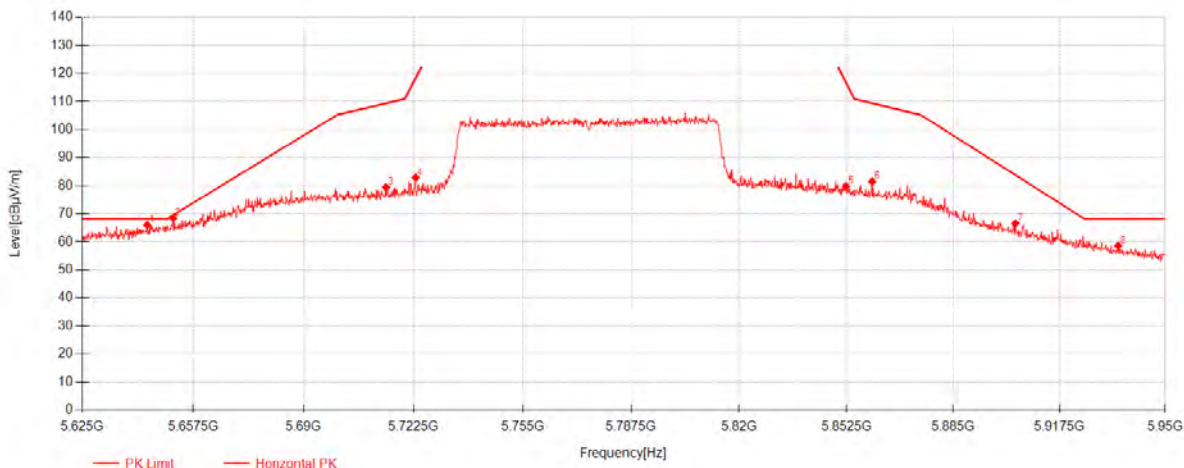
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802.11ax80_Channel 155



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5644.0125	52.36	32.33	-18.72	65.96	68.30	2.34	Horizontal
2	5651.65	54.83	32.33	-18.73	68.44	69.53	1.09	Horizontal
3	5714.375	65.83	32.34	-18.77	79.40	109.33	29.93	Horizontal
4	5723.15	69.27	32.34	-18.80	82.82	118.08	35.26	Horizontal
5	5852.3375	66.31	32.37	-18.88	79.80	116.97	37.17	Horizontal
6	5860.3	67.97	32.37	-18.86	81.49	109.41	27.92	Horizontal
7	5904.0125	52.90	32.38	-18.75	66.53	83.79	17.26	Horizontal
8	5935.5375	45.07	32.39	-18.81	58.64	68.30	9.66	Horizontal

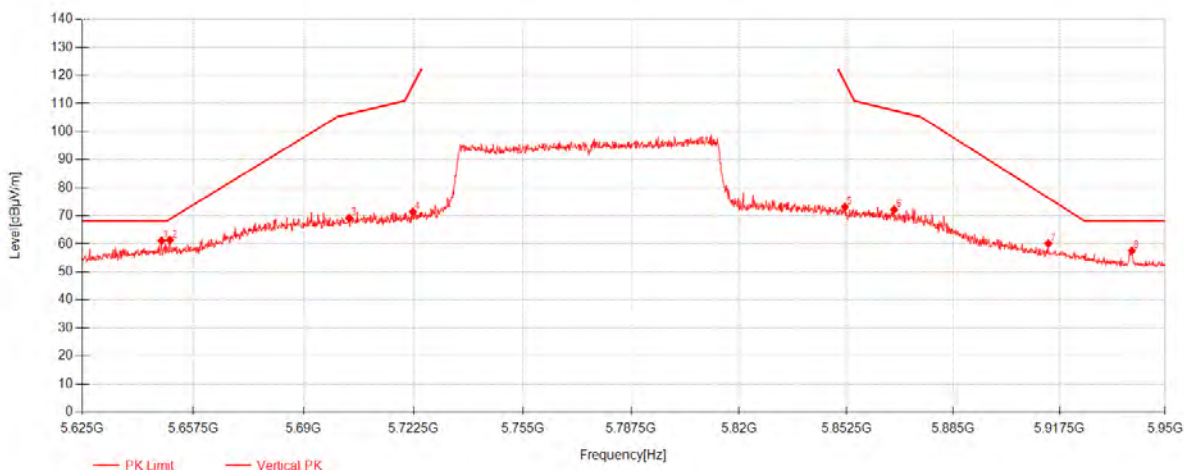
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802.11ax80_Channel 155



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5648.2375	47.50	32.33	-18.72	61.10	68.30	7.20	Vertical
2	5650.675	47.74	32.33	-18.73	61.35	68.80	7.45	Vertical
3	5703.4875	55.62	32.34	-18.74	69.22	106.28	37.06	Vertical
4	5722.3375	57.81	32.34	-18.80	71.36	116.23	44.87	Vertical
5	5852.0125	59.61	32.37	-18.88	73.10	117.71	44.61	Vertical
6	5866.9625	58.63	32.37	-18.84	72.17	107.55	35.38	Vertical
7	5914.0875	46.53	32.38	-18.77	60.14	76.35	16.21	Vertical
8	5939.7625	43.96	32.39	-18.82	57.52	68.30	10.78	Vertical

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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: 23.1 °C

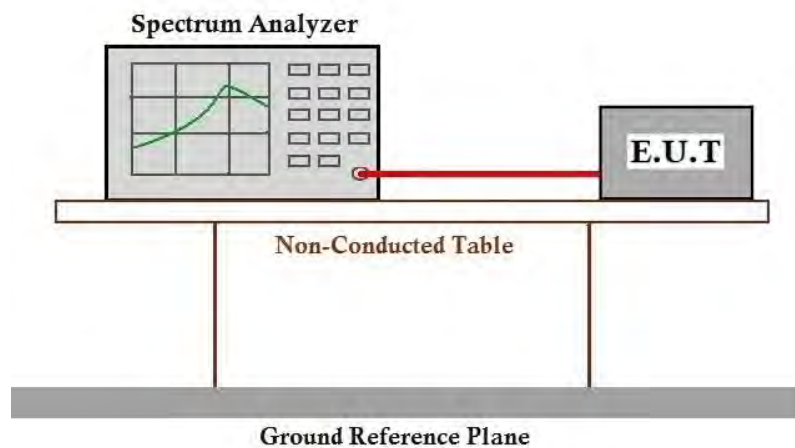
Humidity: 53.3 % RH

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

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7.7 99% Bandwidth

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

7.7.1 E.U.T. Operation

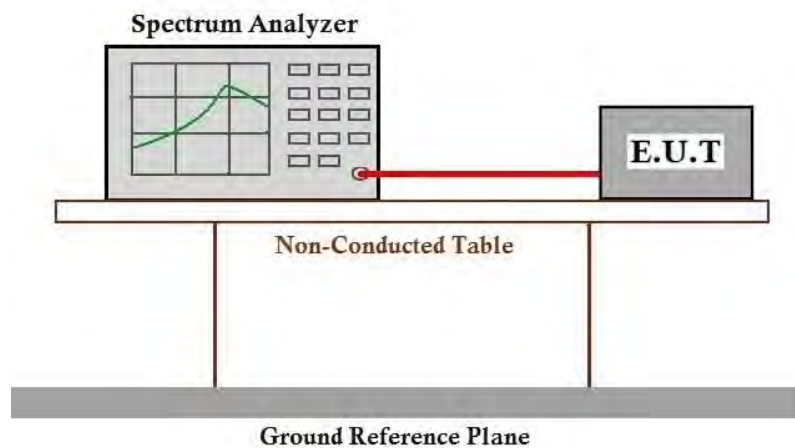
Operating Environment:

Temperature: 23.1 °C Humidity: 53.3 % 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



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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: 23.1 °C

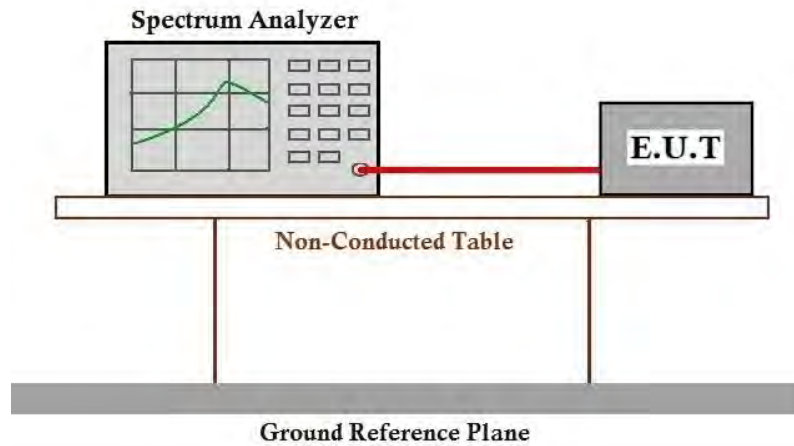
Humidity: 53.3 % RH

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

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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: 23.1 °C

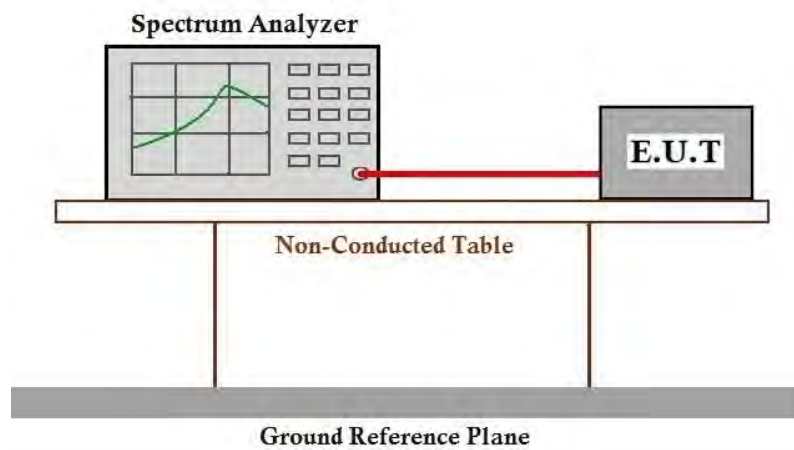
Humidity: 53.3 % RH

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

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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: 23.1 °C

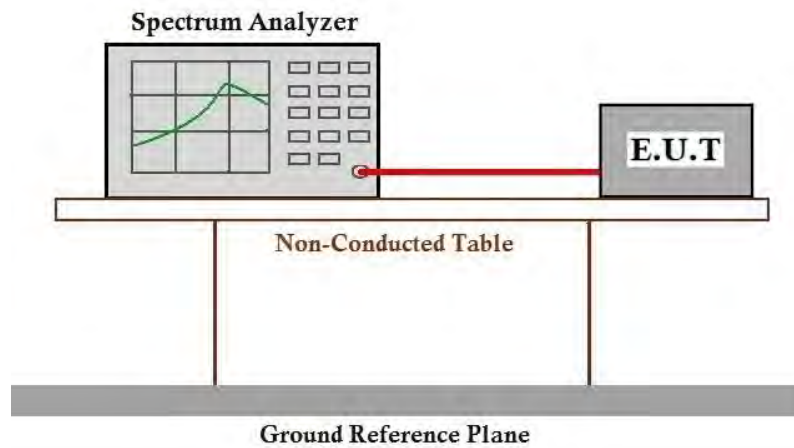
Humidity: 53.3 % RH

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

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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: 23.1 °C

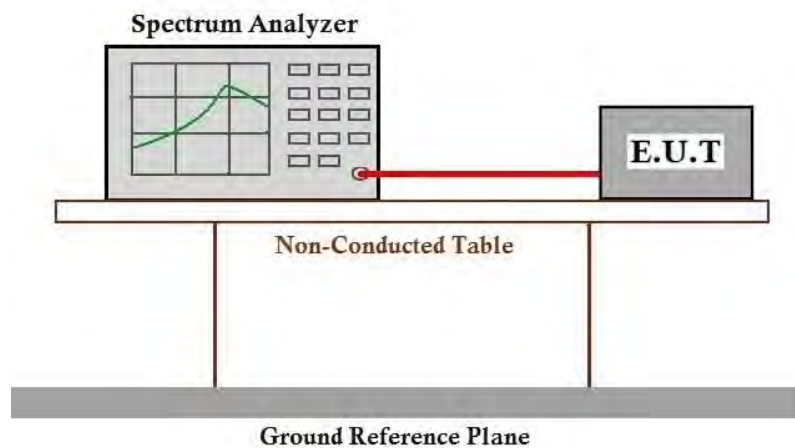
Humidity: 53.3 % RH

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

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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: 23.1 °C

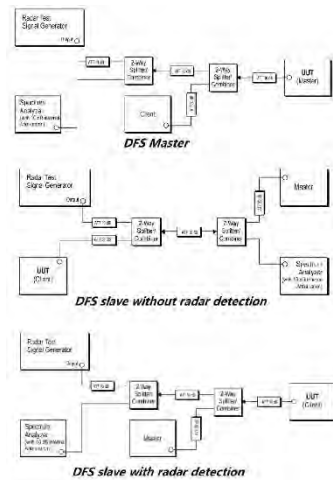
Humidity: 53.3 % RH

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: $C (ms) = N \times Dwell (0.3ms)$; 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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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: 23.1 °C

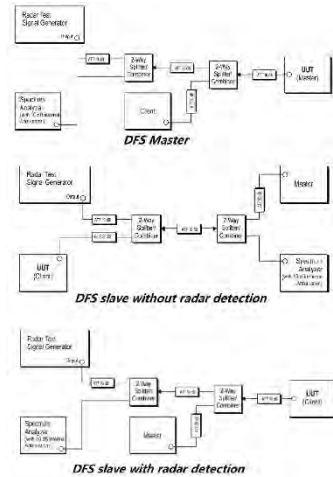
Humidity: 53.3 % RH

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: $C (ms) = N \times Dwell (0.3ms)$; 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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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

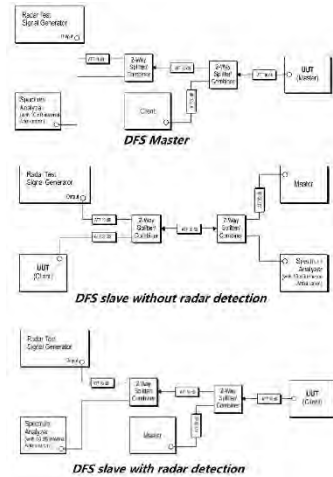
Humidity: 54.0 % RH

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: $C (ms) = N \times Dwell (0.3ms)$; 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 - Test Setup Photo for KSCR2408001626AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2408001626AT

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	/	/	1.366	1.575	86.73	0.62	5.27
		5200	/	/	1.367	1.526	89.58	0.48	2.72
		5240	/	/	1.364	1.575	86.60	0.62	5.25
		5260	/	/	1.367	1.593	85.81	0.66	6.26
		5300	/	/	1.367	1.664	82.15	0.85	6.66
		5320	/	/	1.366	1.810	75.47	1.22	1.93
		5745	/	/	1.367	1.593	85.81	0.66	6.26
		5785	/	/	1.367	1.482	92.24	0.35	0.03
		5825	/	/	1.366	1.575	86.73	0.62	5.30
802.11ac (VHT20)	SISO	5180	/	/	1.286	1.504	85.51	0.68	6.03
		5200	/	/	1.286	1.522	84.49	0.73	6.46
		5240	/	/	1.285	1.523	84.37	0.74	7.06
		5260	/	/	1.286	1.522	84.49	0.73	6.49
		5300	/	/	1.286	1.495	86.02	0.65	5.55
		5320	/	/	1.286	1.521	84.55	0.73	7.04
		5745	/	/	1.286	1.522	84.49	0.73	6.45
		5785	/	/	1.286	1.627	79.04	1.02	12.73
		5825	/	/	1.286	1.513	85.00	0.71	3.70
802.11ac (VHT40)	SISO	5190	/	/	0.938	1.173	79.97	0.97	8.85
		5230	/	/	0.938	1.098	85.43	0.68	3.70
		5270	/	/	0.938	1.419	66.10	1.80	5.95
		5310	/	/	0.937	1.427	65.66	1.83	5.85
		5755	/	/	0.938	1.293	72.54	1.39	16.58
		5795	/	/	0.937	1.177	79.61	0.99	9.51
802.11ac (VHT80)	SISO	5210	/	/	4.525	4.743	95.40	0.20	2.06
		5290	/	/	4.525	4.702	96.24	0.17	1.29
		5775	/	/	4.525	4.702	96.24	0.17	1.28
802.11ax (HE20)	SISO	5180	RU242	Left	0.996	1.421	70.09	1.54	18.36
		5200	RU242	Left	0.996	1.189	83.77	0.77	5.41
		5240	RU242	Left	0.997	1.167	85.43	0.68	4.14
		5260	RU242	Left	0.999	1.226	81.48	0.89	7.20
		5300	RU242	Left	0.999	1.189	84.02	0.76	5.43
		5320	RU242	Left	0.998	1.442	69.21	1.60	4.11



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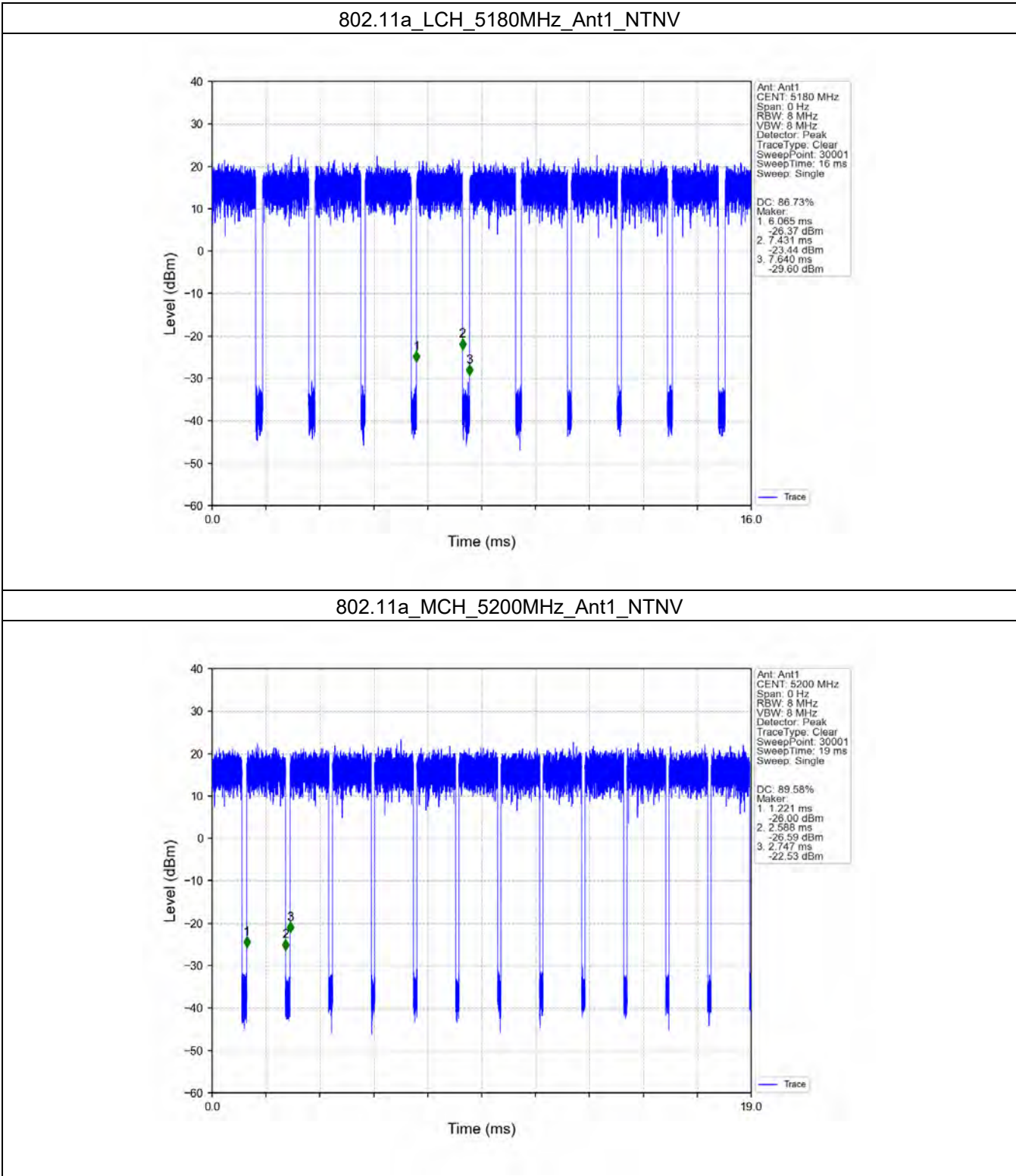
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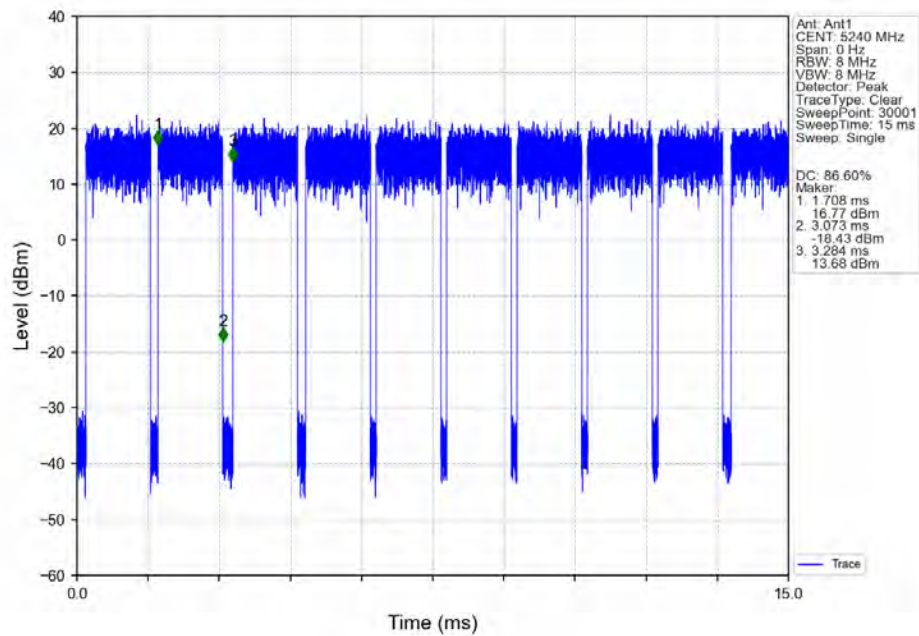
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802.11ax (HE40)	SISO	5190	RU484	Left	0.530	0.699	75.82	1.20	6.38
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		5270	RU484	Left	0.529	0.756	69.97	1.55	11.65
		5310	RU484	Left	0.530	0.756	70.11	1.54	11.70
		5755	RU484	Left	0.760	0.938	81.02	0.91	5.84
		5795	RU484	Left	0.761	0.930	81.83	0.87	5.06
802.11ax (HE80)	SISO	5210	RU996	Left	3.699	3.916	94.46	0.25	2.44
		5290	RU996	Left	3.698	3.831	96.53	0.15	0.47
		5775	RU996	Left	3.715	3.898	95.31	0.21	2.12

1.2 Test Graph

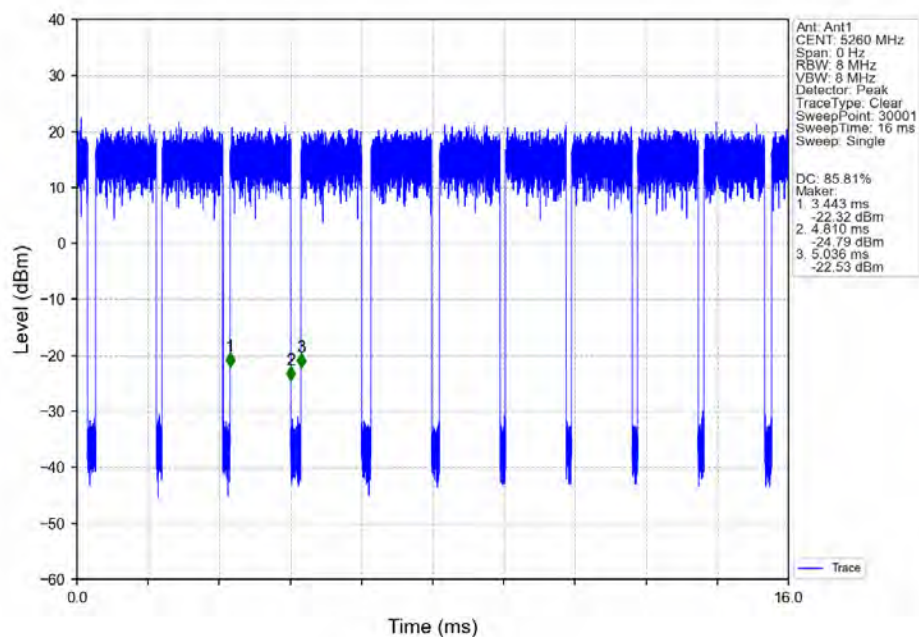
1.2.1 Ant1



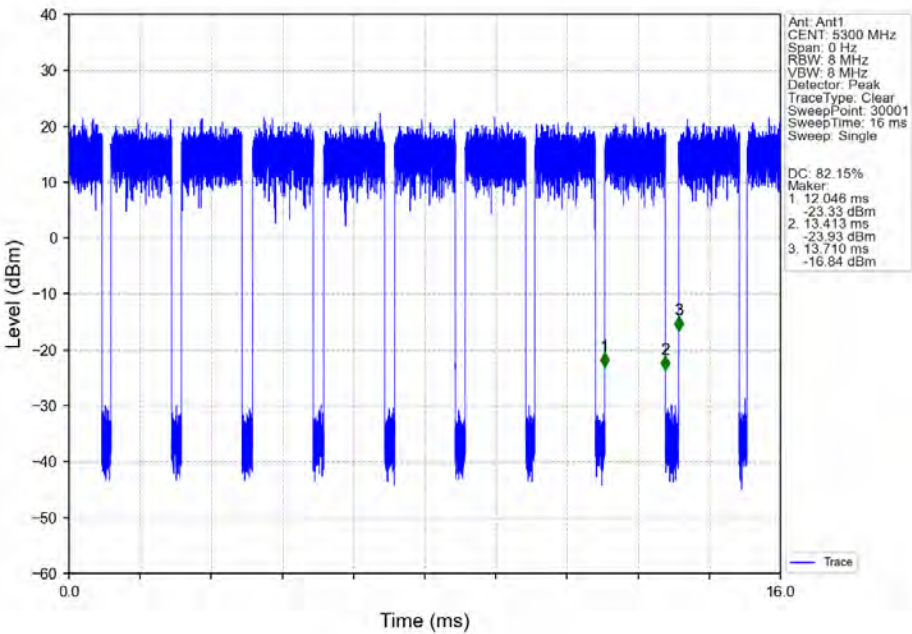
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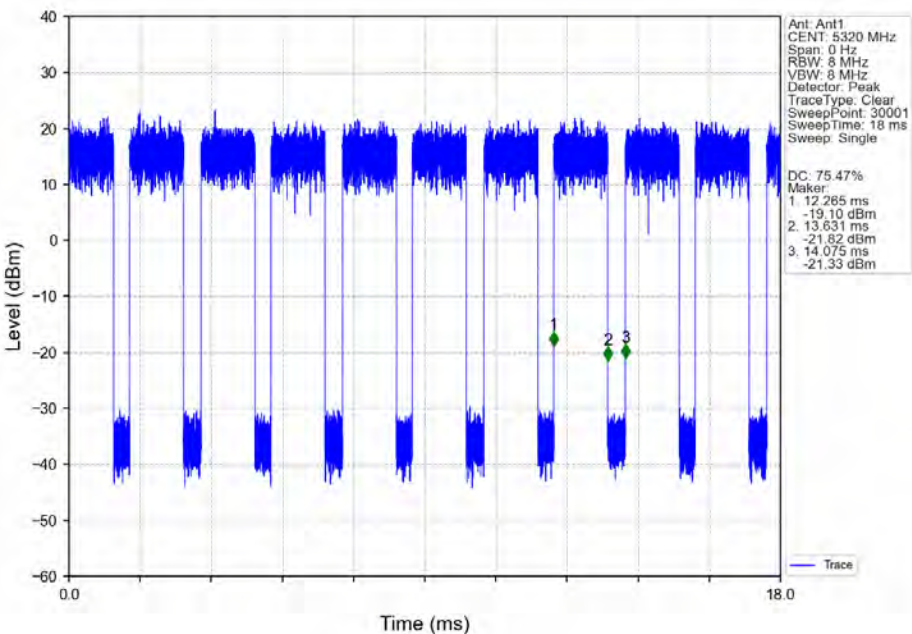
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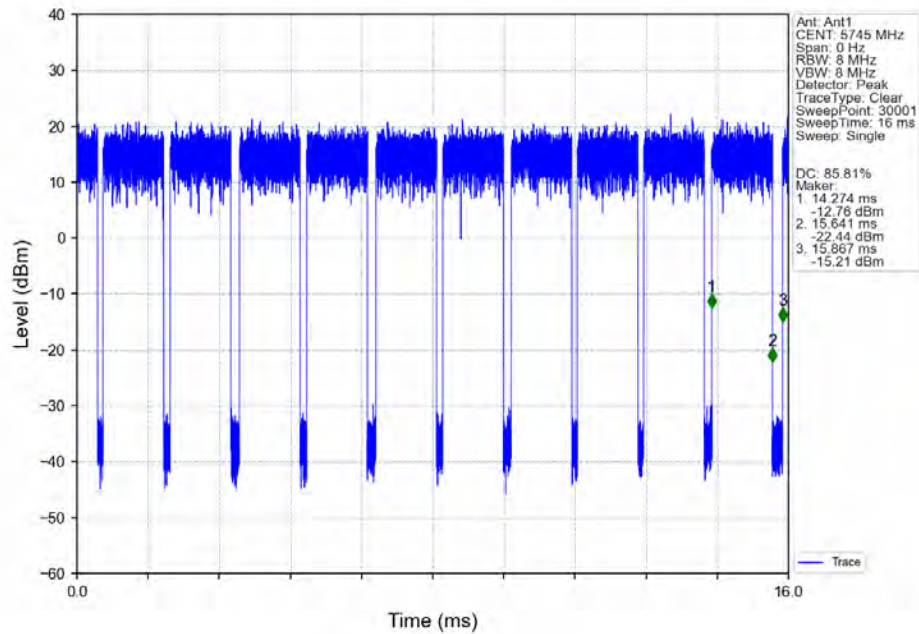
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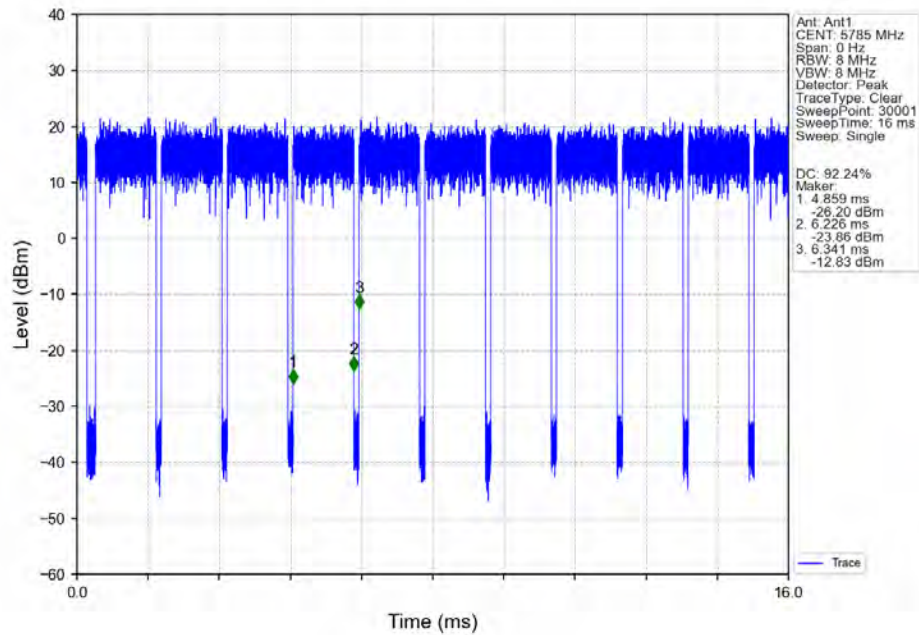
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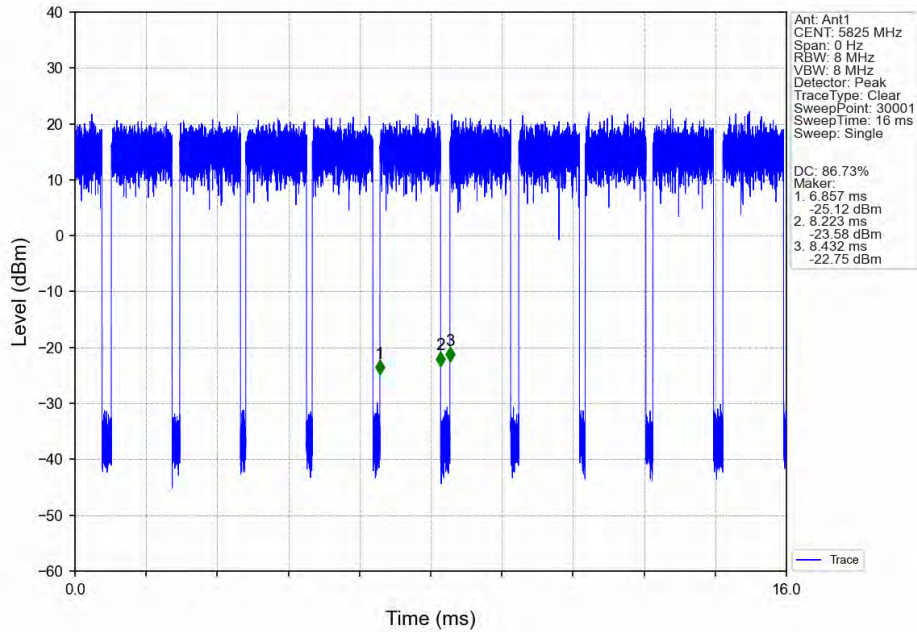
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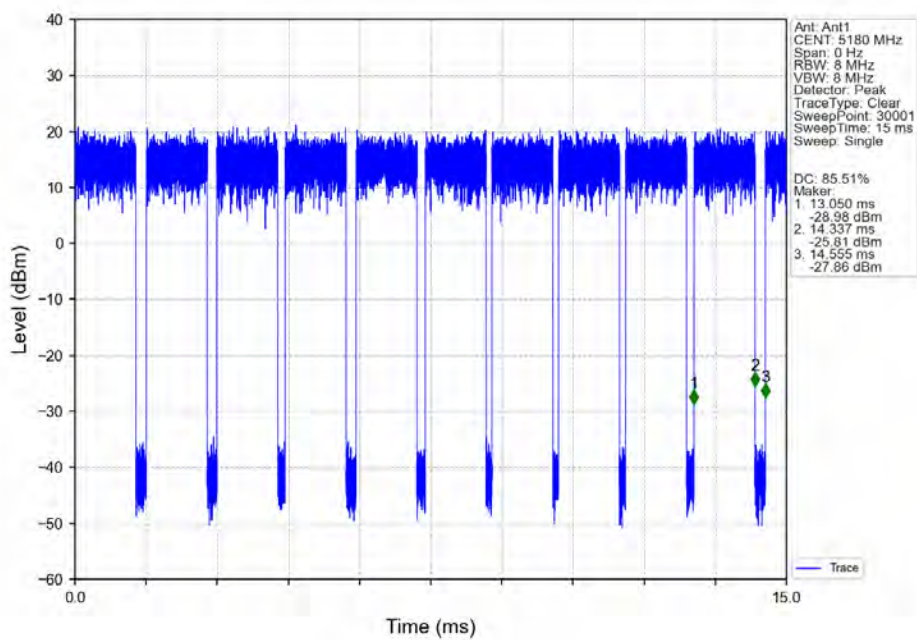
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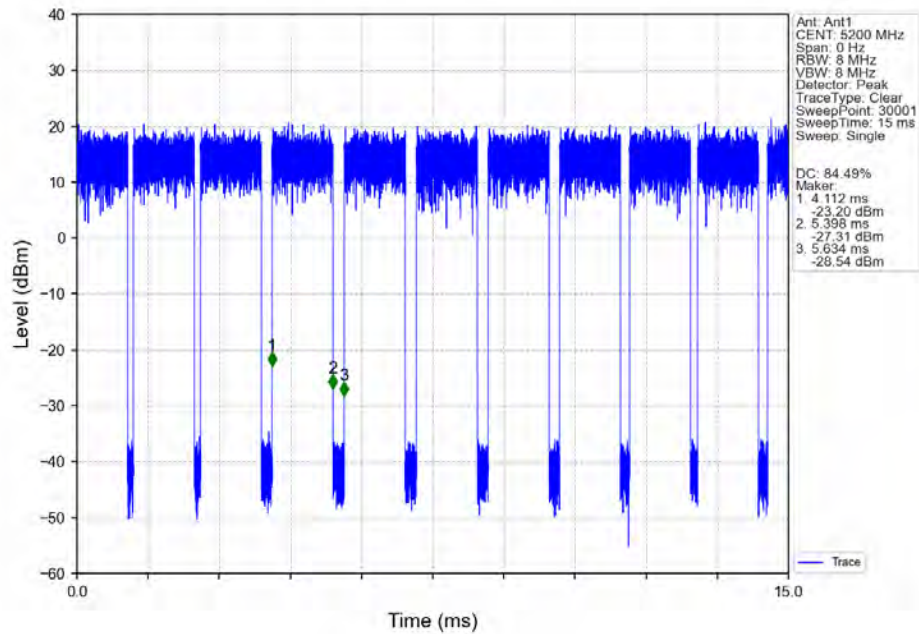
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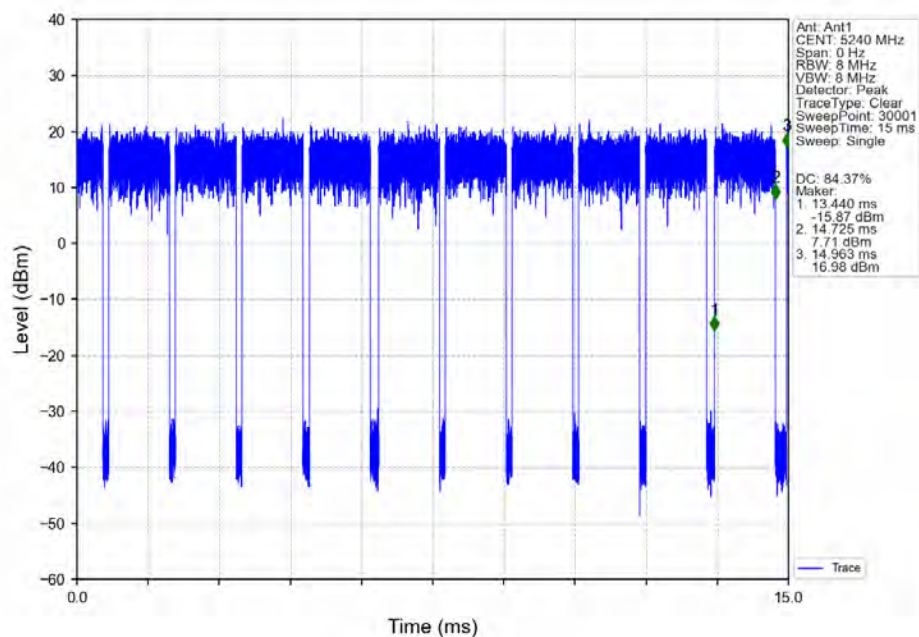
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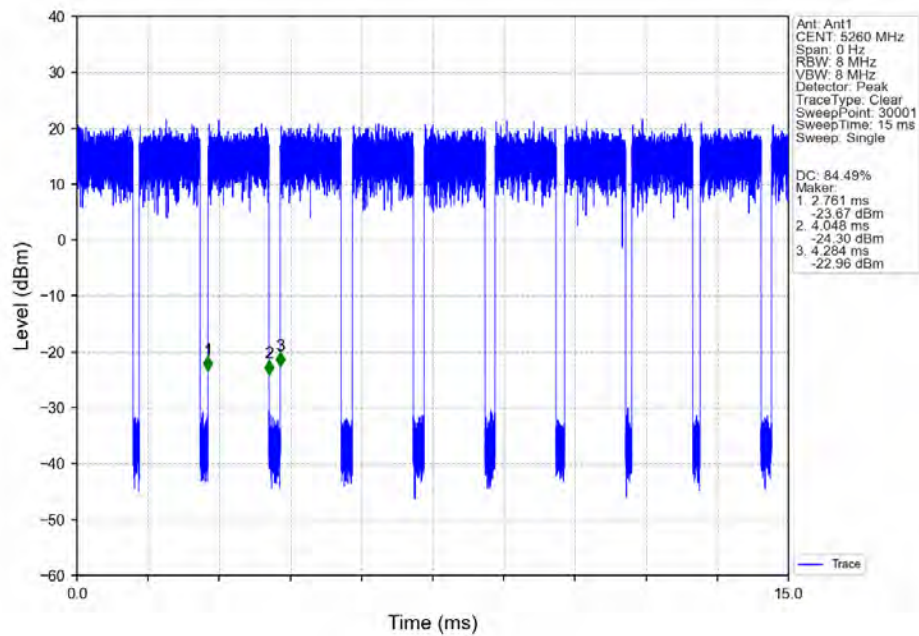
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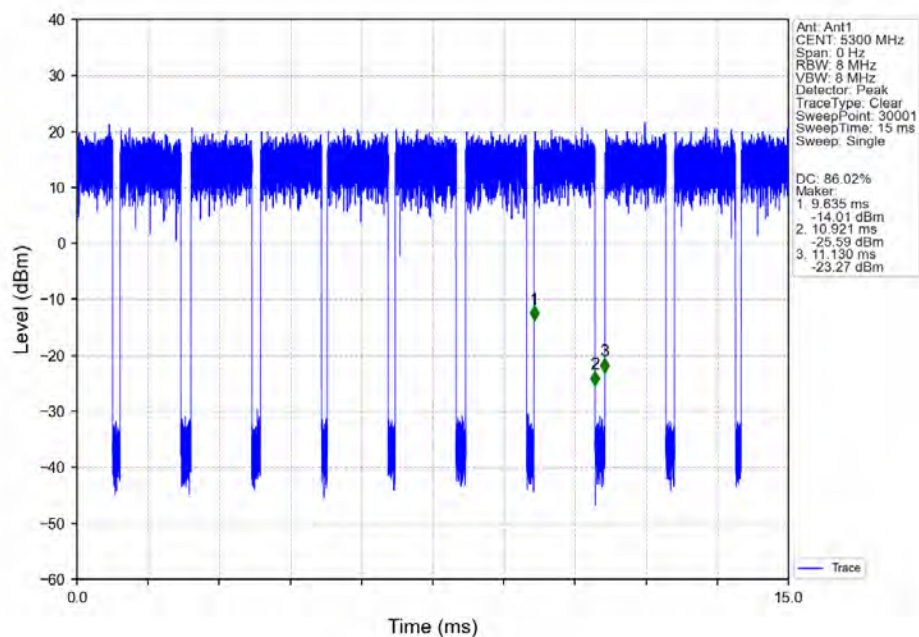
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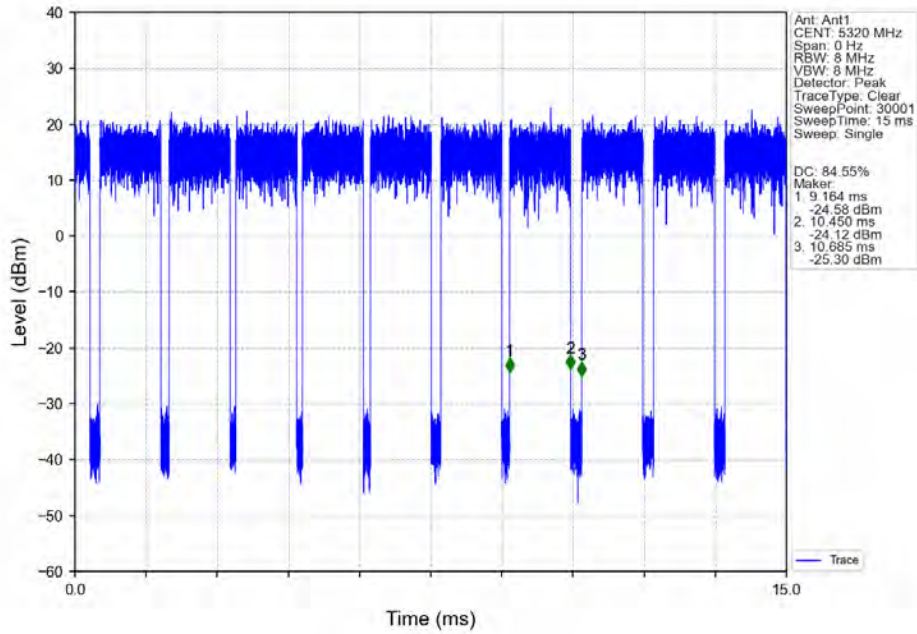
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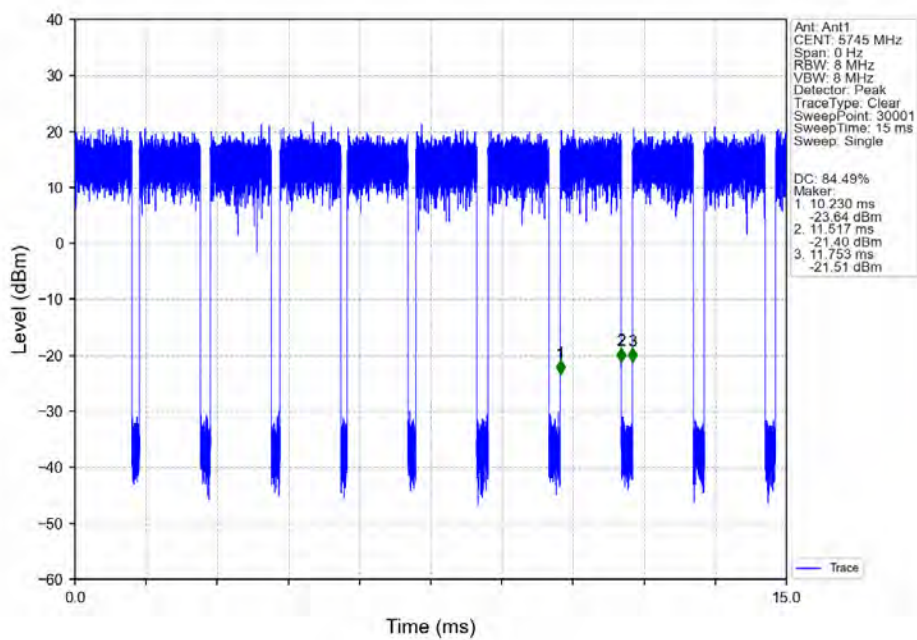
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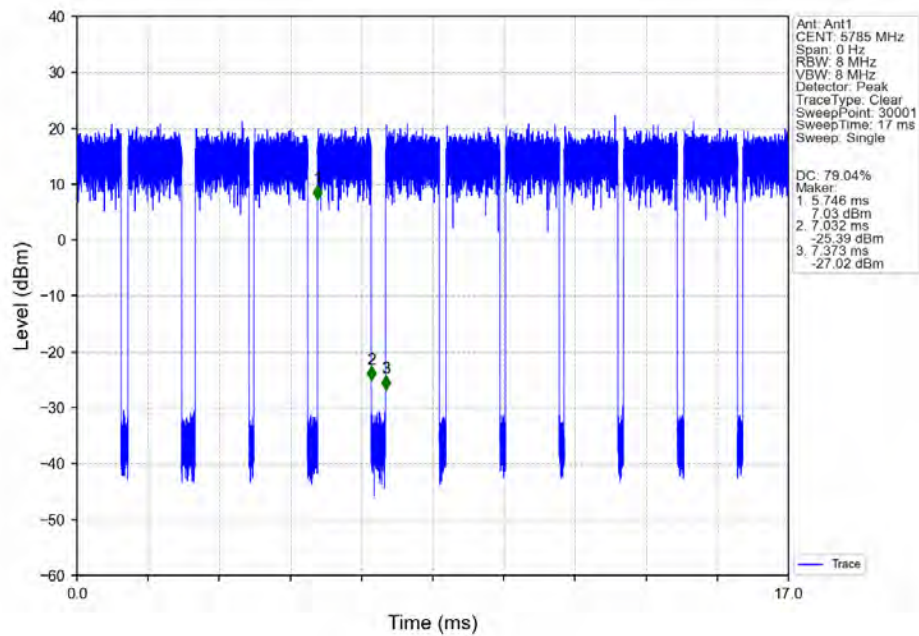
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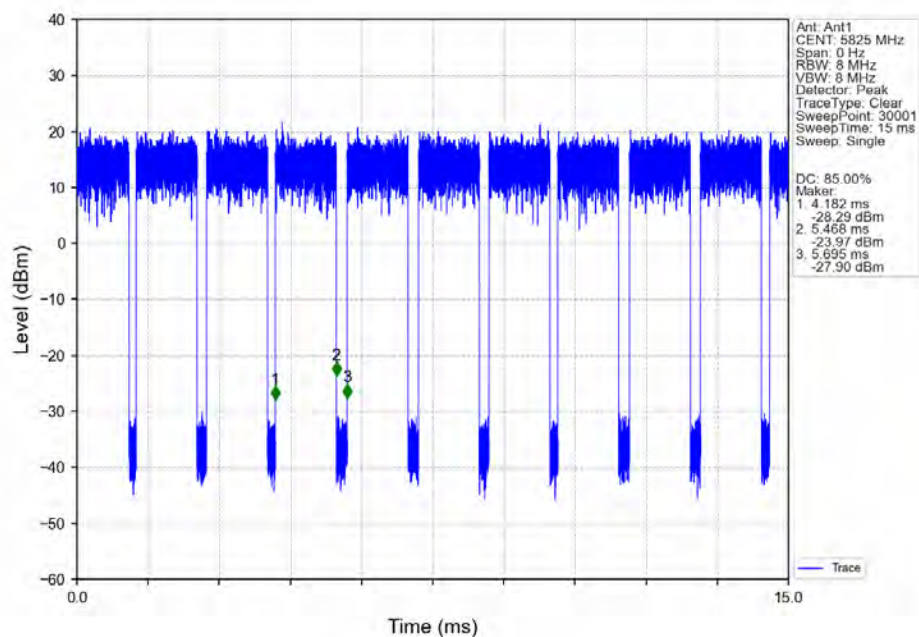
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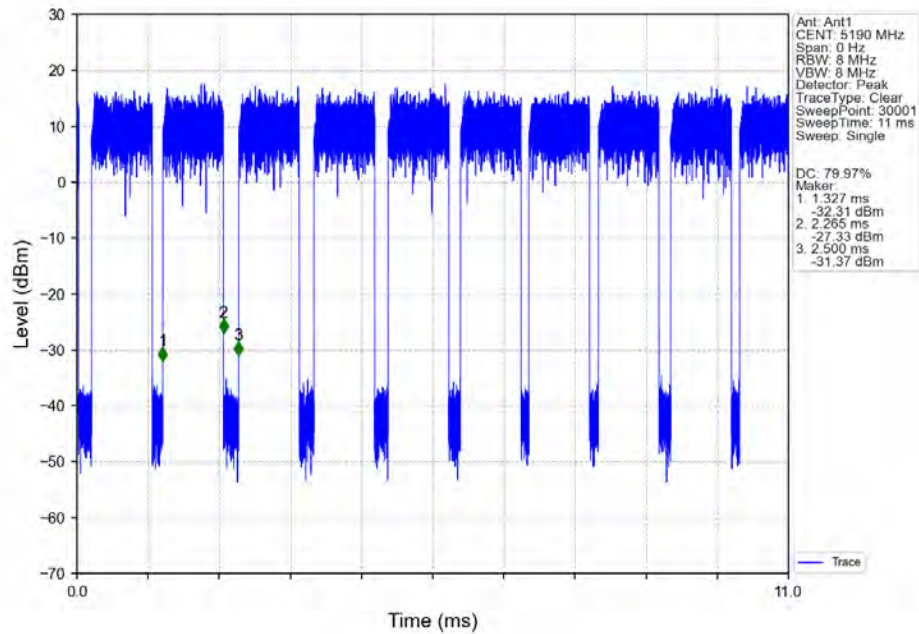
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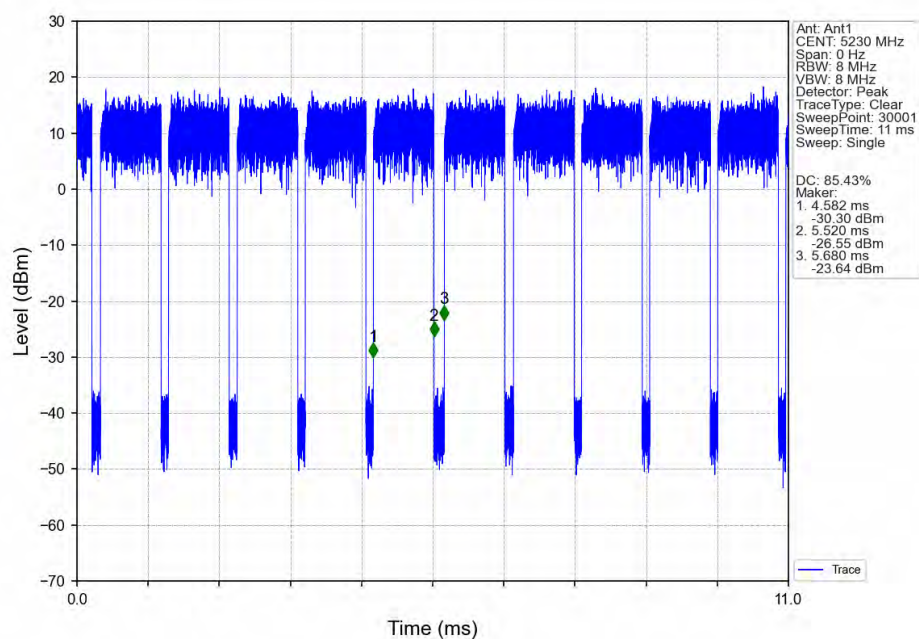
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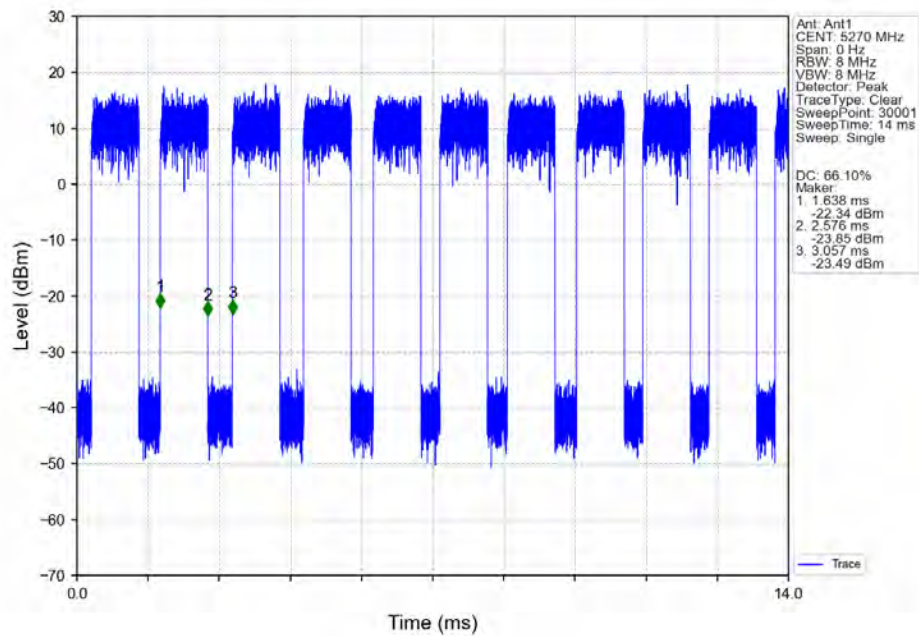
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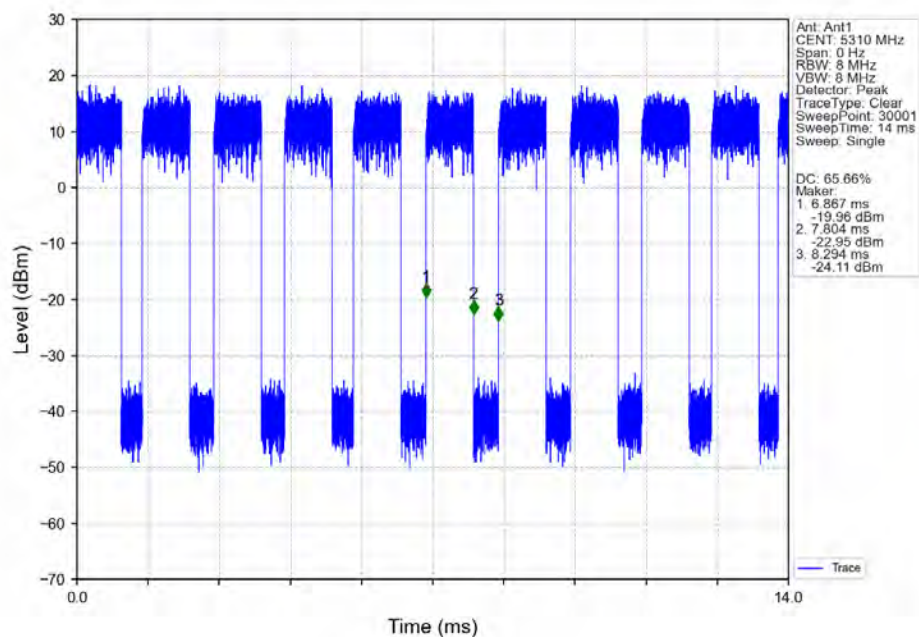
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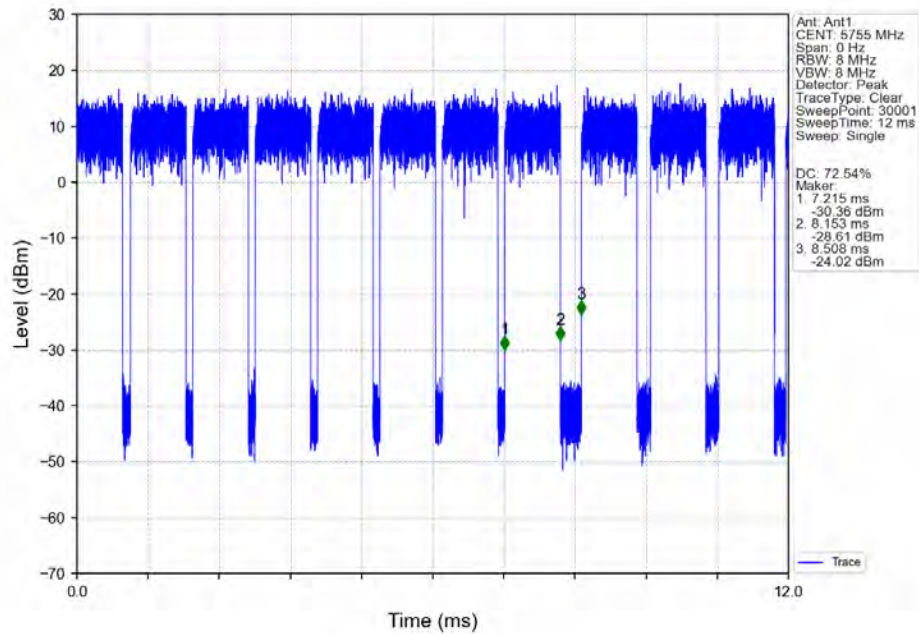
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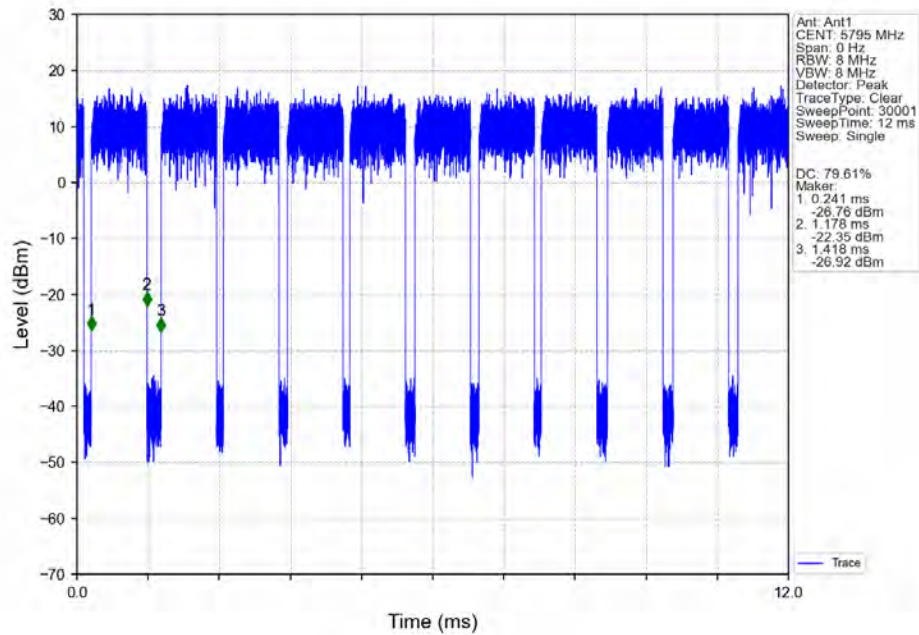
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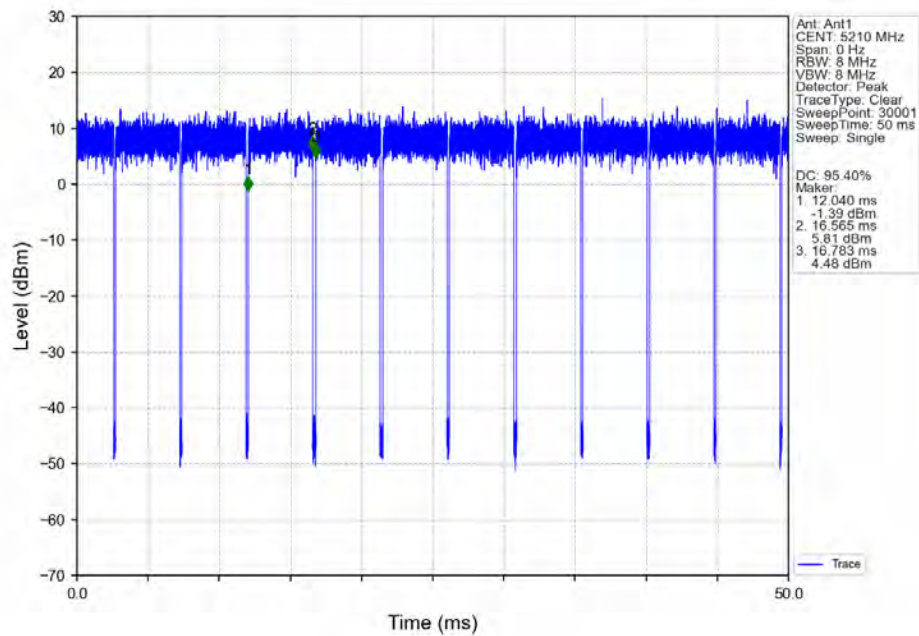
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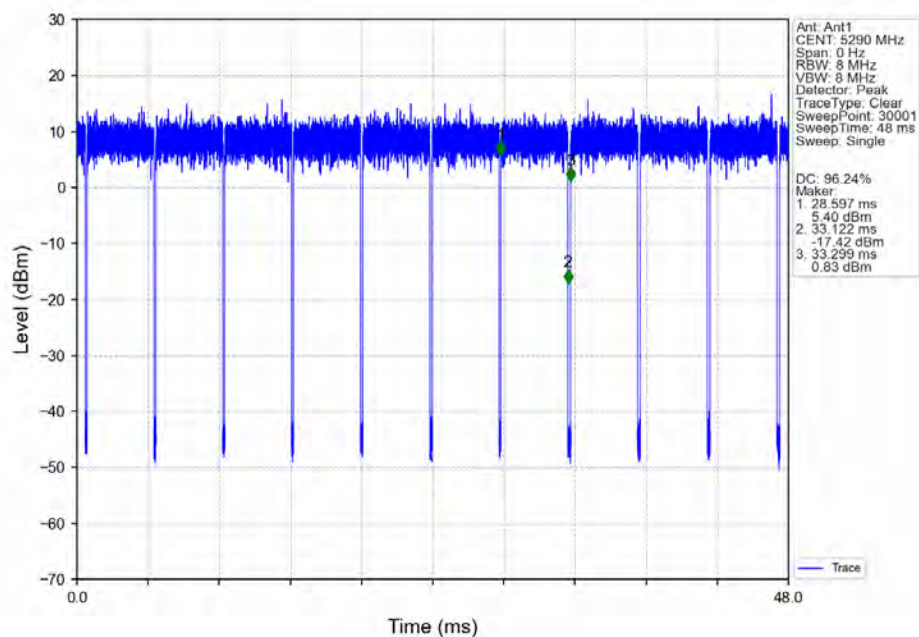
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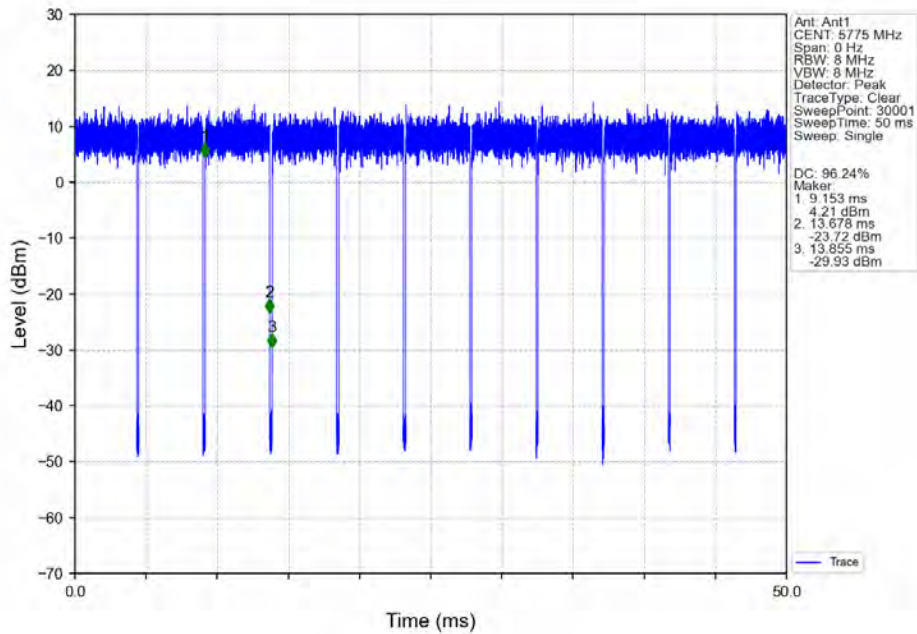
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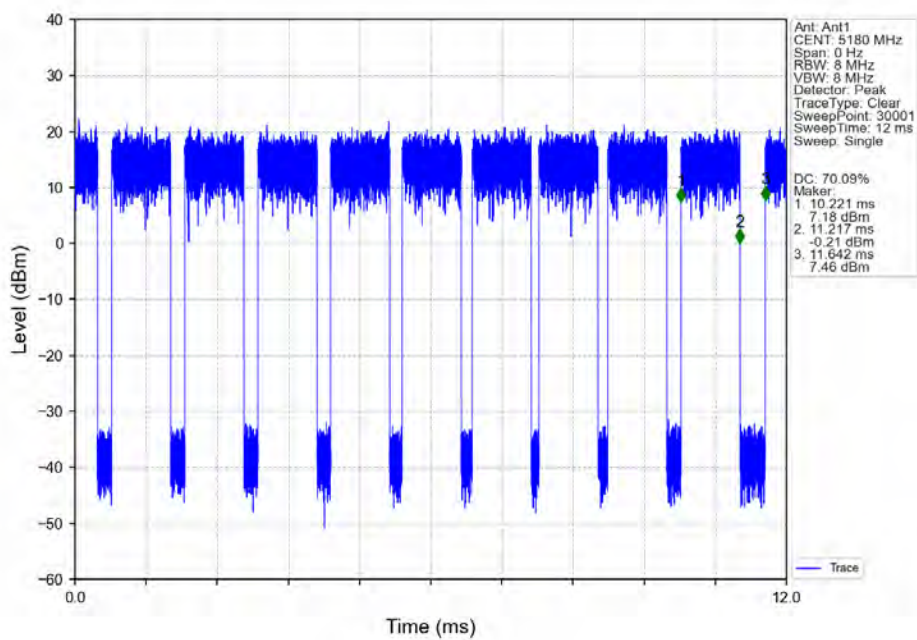
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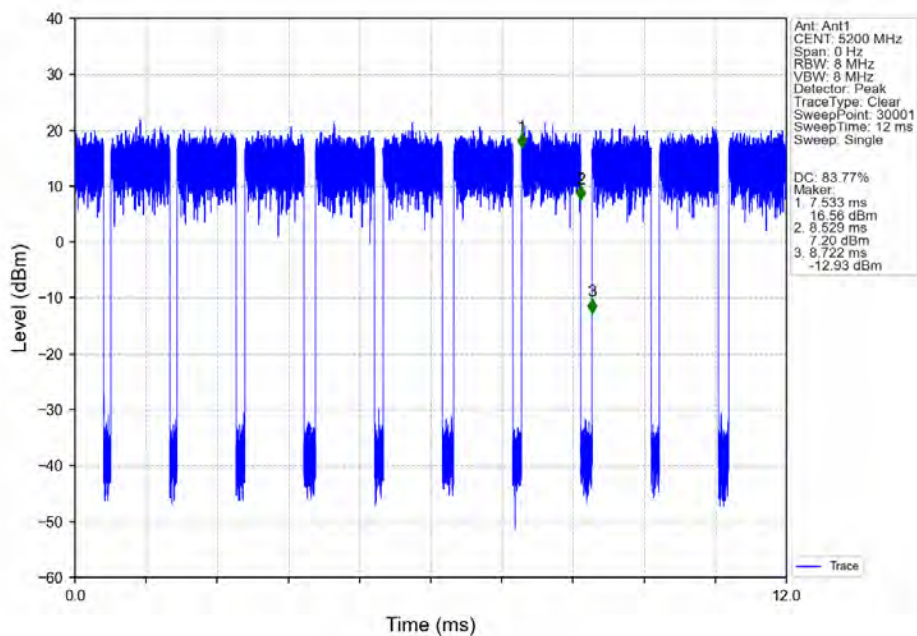
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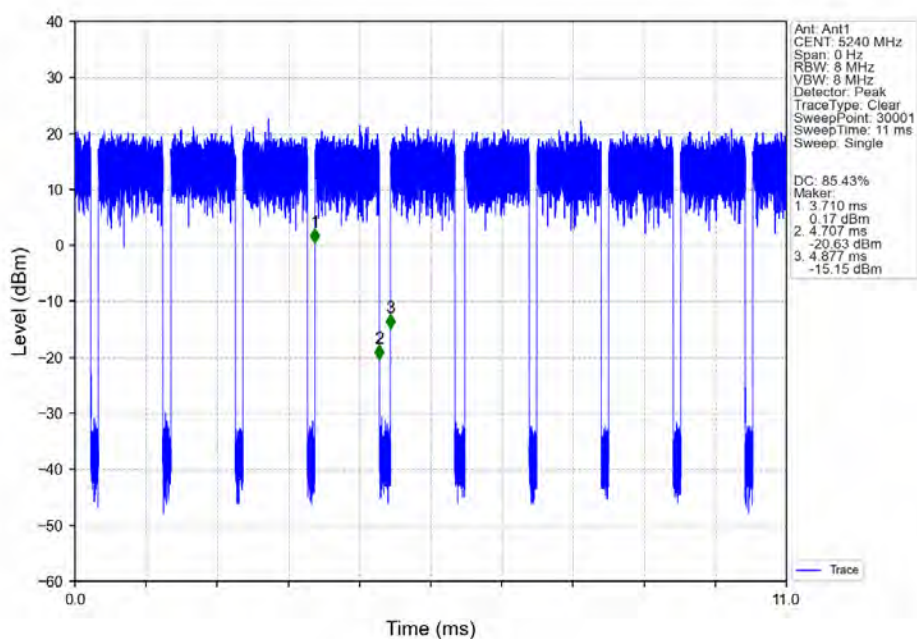
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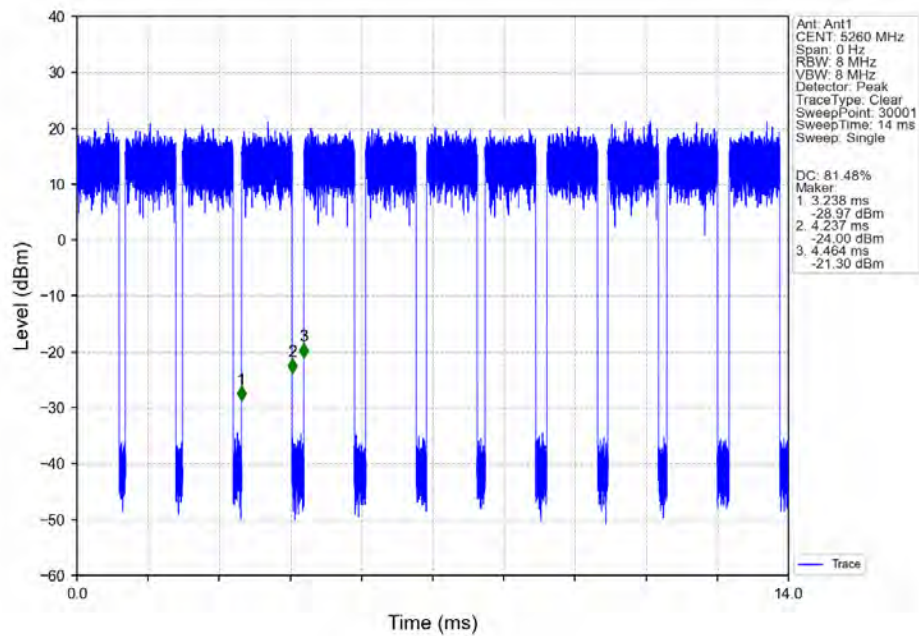
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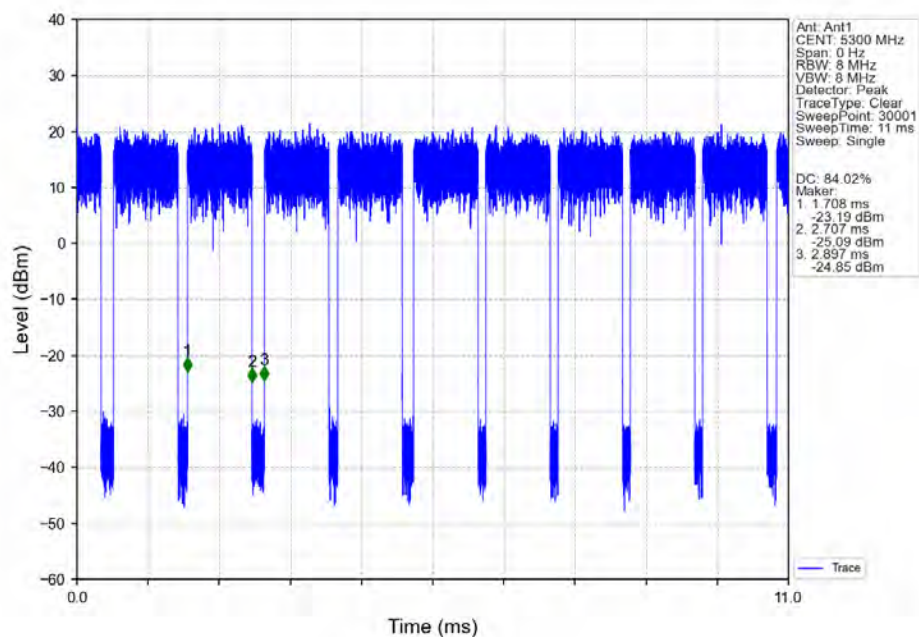
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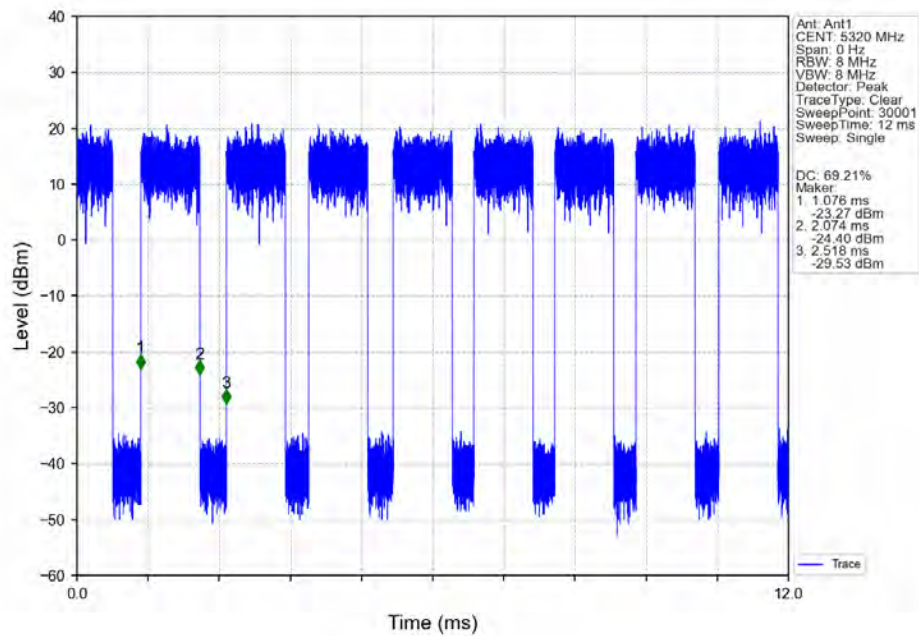
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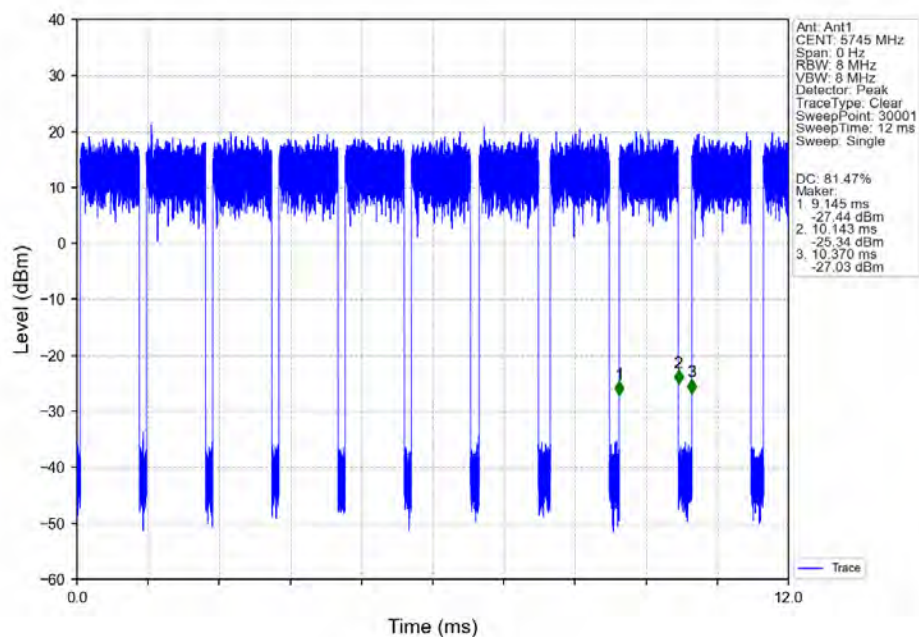
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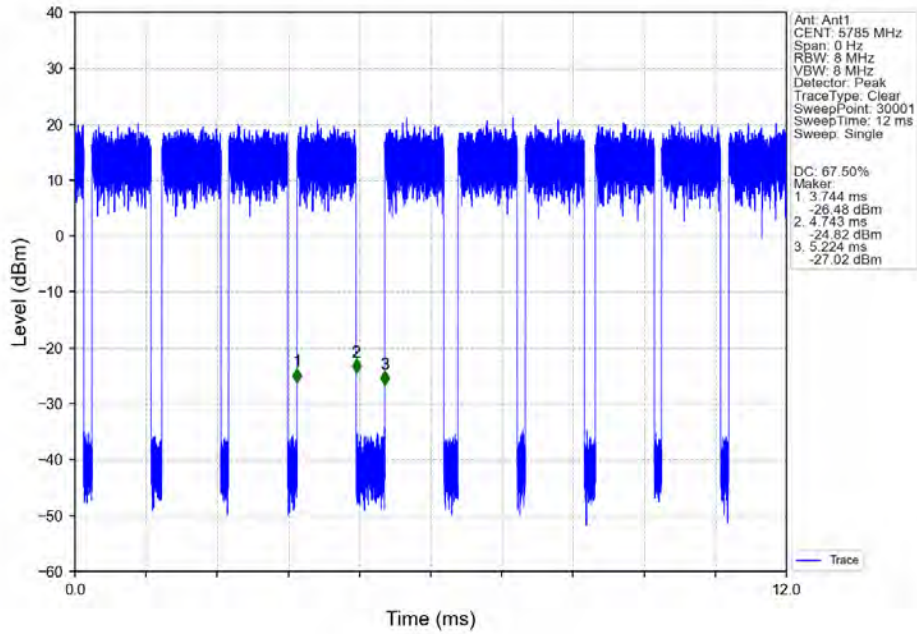
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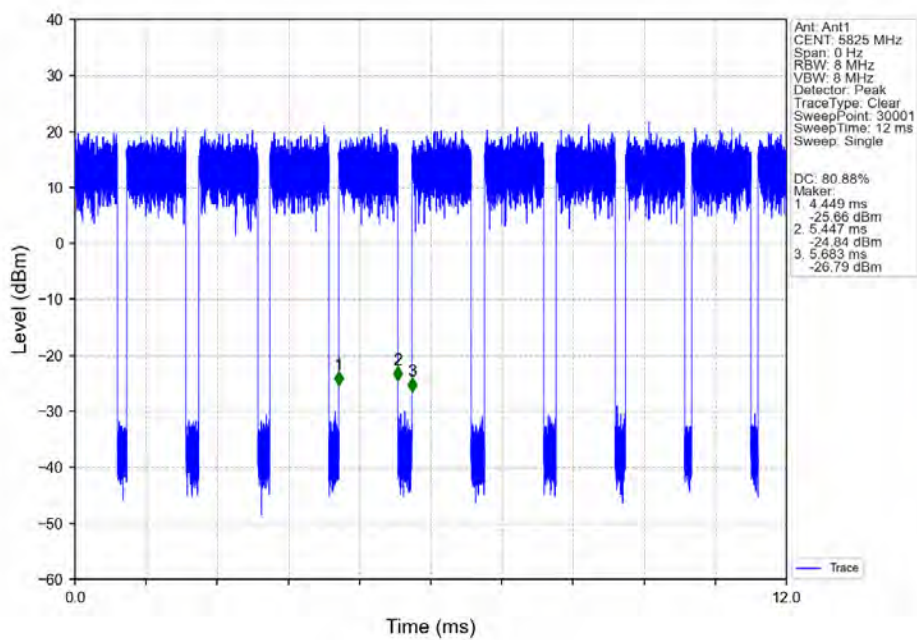
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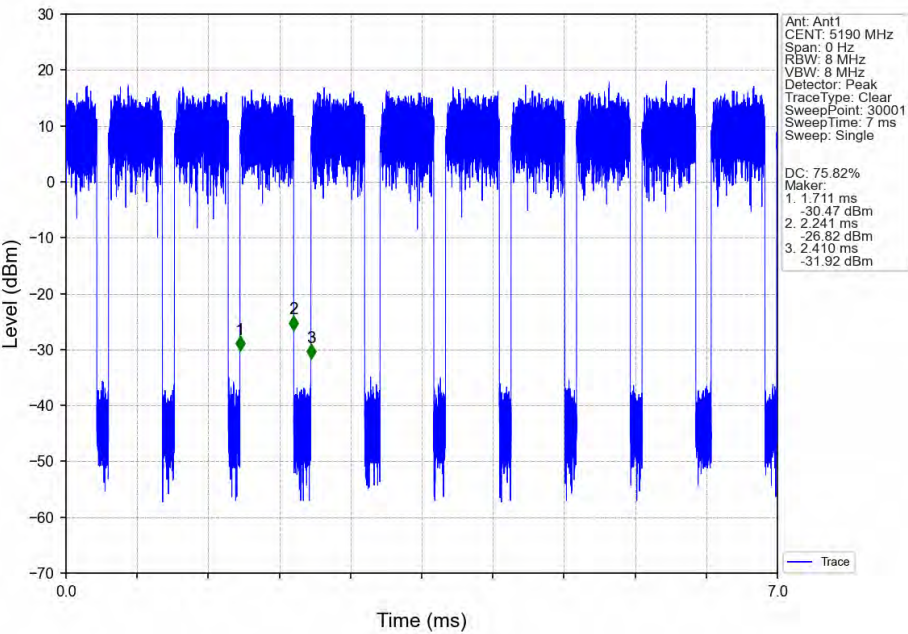
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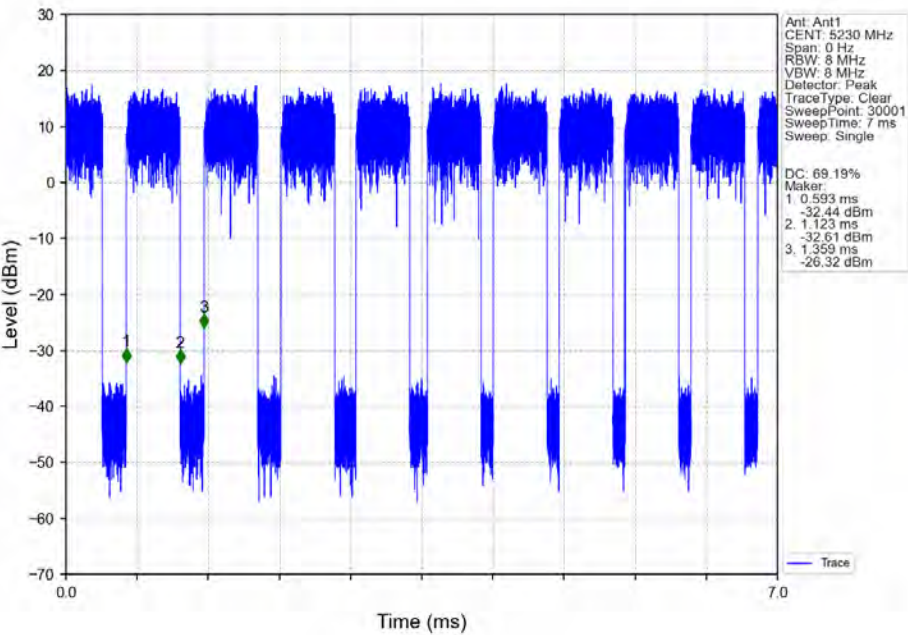
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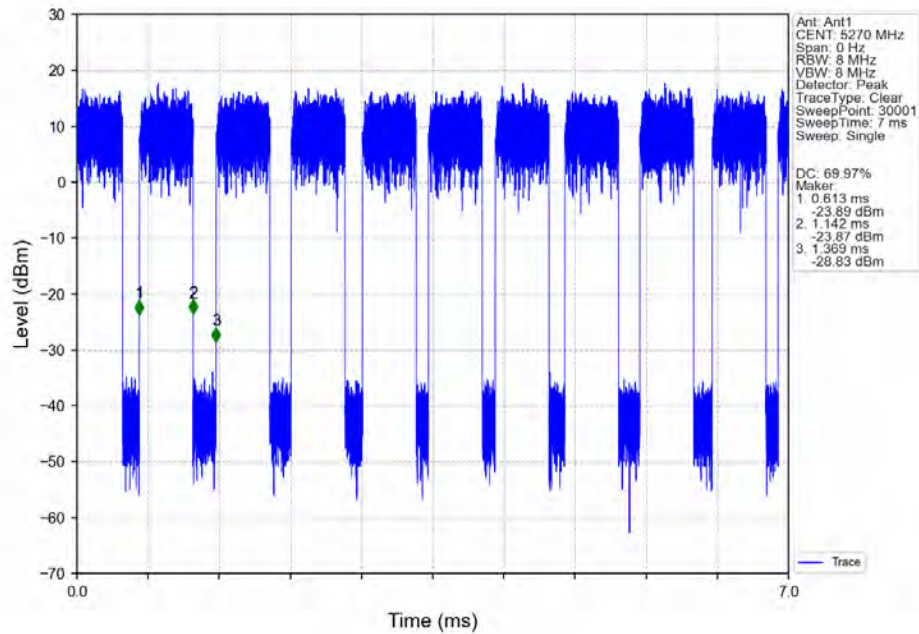
802.11ax(HE40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



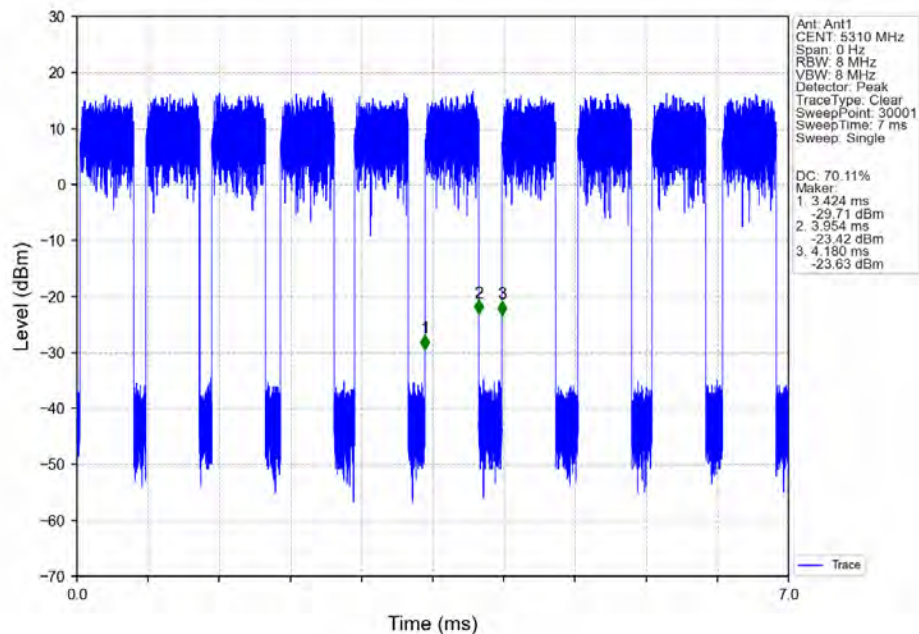
802.11ax(HE40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



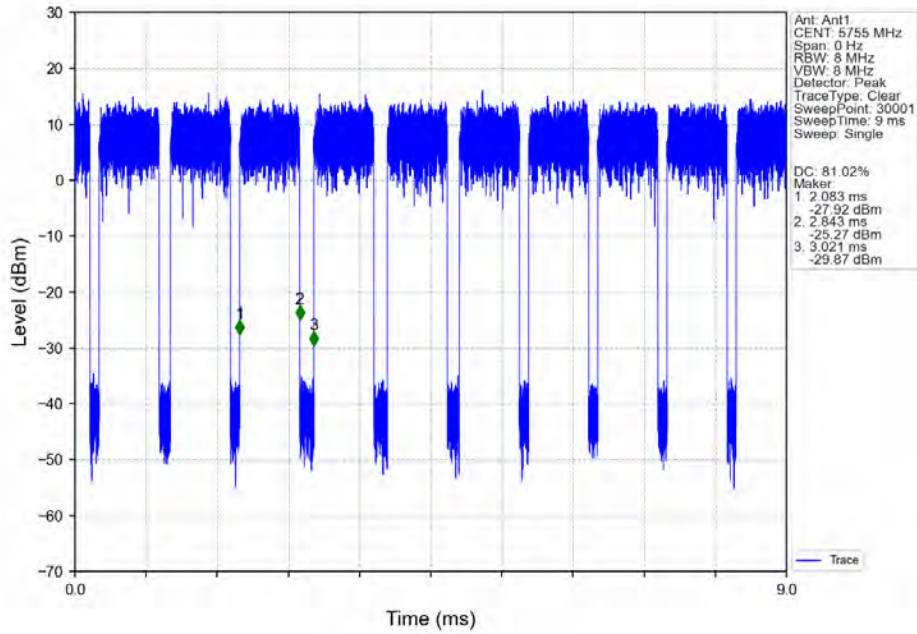
802.11ax(HE40)_LCH_5270MHz_RU484_Left_Ant1_NTNV



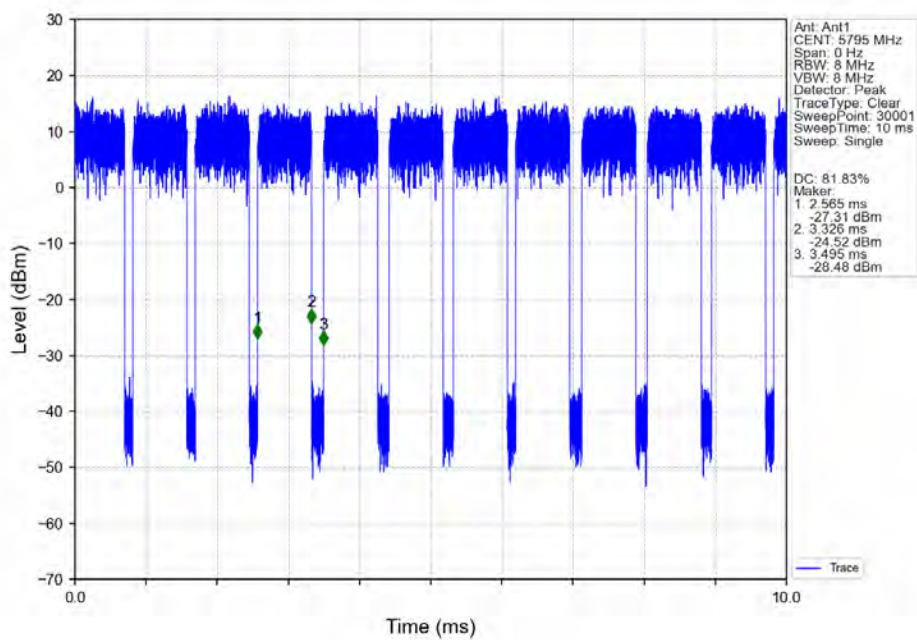
802.11ax(HE40)_HCH_5310MHz_RU484_Left_Ant1_NTNV



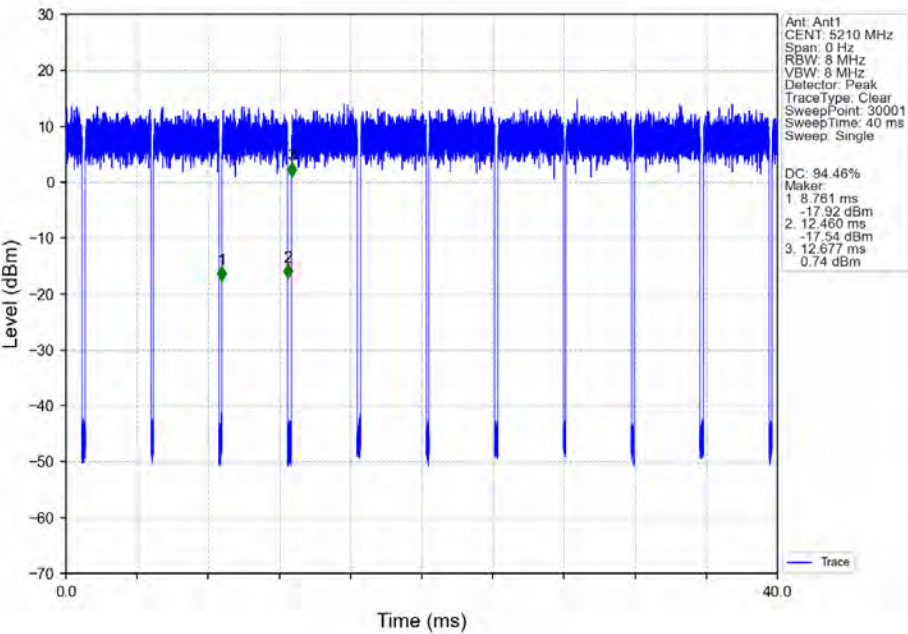
802.11ax(HE40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



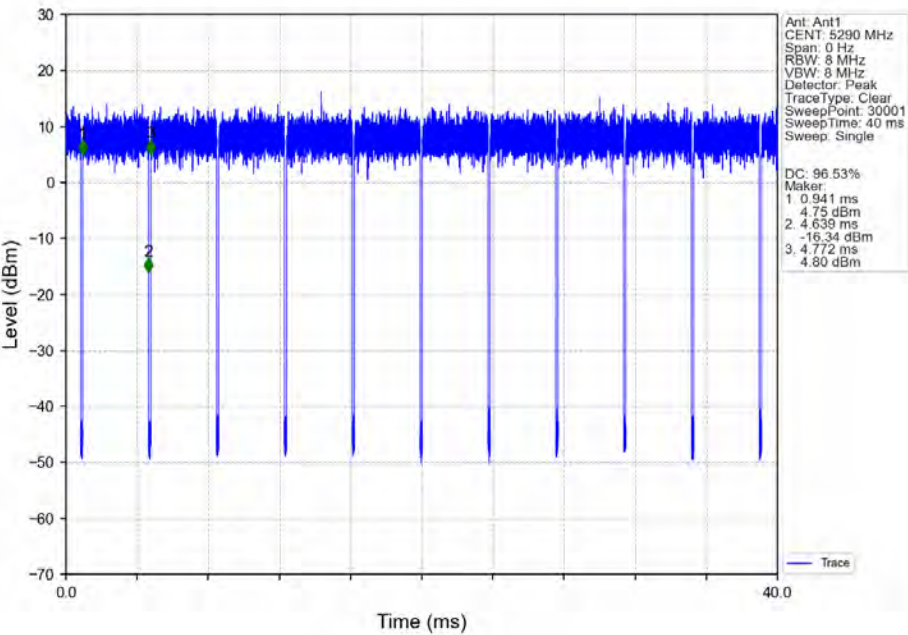
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802.11ax(HE80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



802.11ax(HE80)_MCH_5290MHz_RU996_Left_Ant1_NTNV



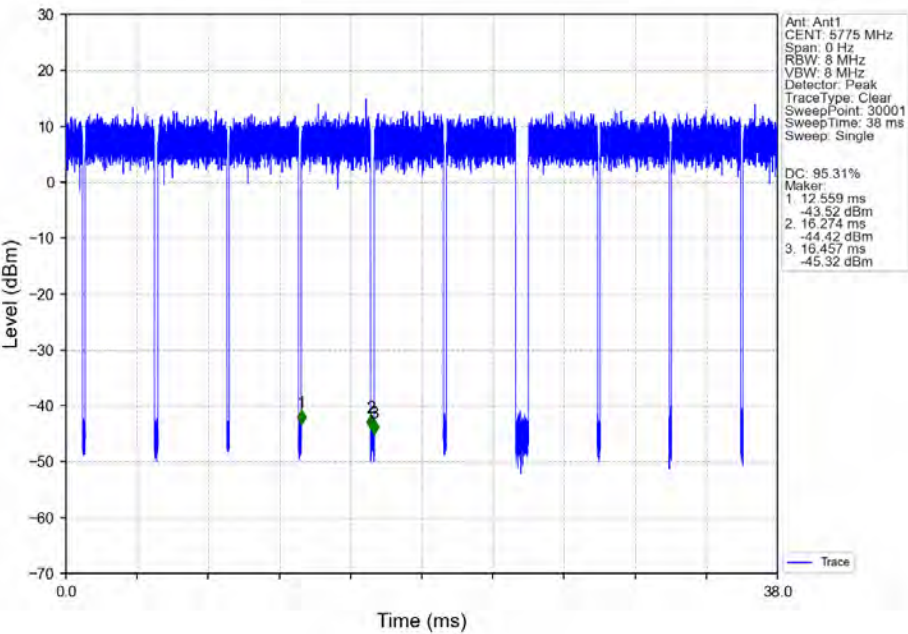
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802.11ax(HE80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



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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	18.824	/	Pass
		5200	/	/	1	18.766	/	Pass
		5240	/	/	1	18.609	/	Pass
		5260	/	/	1	18.830	/	Pass
		5300	/	/	1	18.940	/	Pass
		5320	/	/	1	18.685	/	Pass
		5745	/	/	1	19.467	/	Pass
		5785	/	/	1	19.282	/	Pass
802.11ac (VHT20)	SISO	5825	/	/	1	19.085	/	Pass
		5180	/	/	1	19.828	/	Pass
		5200	/	/	1	19.762	/	Pass
		5240	/	/	1	19.907	/	Pass
		5260	/	/	1	19.706	/	Pass
		5300	/	/	1	19.698	/	Pass
		5320	/	/	1	19.737	/	Pass
		5745	/	/	1	20.244	/	Pass
802.11ac (VHT40)	SISO	5785	/	/	1	20.223	/	Pass
		5825	/	/	1	20.039	/	Pass
		5190	/	/	1	37.887	/	Pass
		5230	/	/	1	37.898	/	Pass
		5270	/	/	1	37.650	/	Pass
		5310	/	/	1	37.959	/	Pass
802.11ac (VHT80)	SISO	5755	/	/	1	38.664	/	Pass
		5795	/	/	1	38.409	/	Pass
		5210	/	/	1	77.994	/	Pass
802.11ax (HE20)	SISO	5290	/	/	1	77.890	/	Pass
		5775	/	/	1	79.067	/	Pass
		5180	RU242	Left	1	20.058	/	Pass
		5200	RU242	Left	1	20.155	/	Pass
		5240	RU242	Left	1	20.070	/	Pass
		5260	RU242	Left	1	20.007	/	Pass
		5300	RU242	Left	1	20.139	/	Pass
		5320	RU242	Left	1	20.235	/	Pass
		5745	RU242	Left	1	20.367	/	Pass
		5785	RU242	Left	1	20.388	/	Pass

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		5825	RU242	Left	1	20.294	/	Pass
802.11ax (HE40)	SISO	5190	RU484	Left	1	39.233	/	Pass
		5230	RU484	Left	1	38.912	/	Pass
		5270	RU484	Left	1	38.857	/	Pass
		5310	RU484	Left	1	38.984	/	Pass
		5755	RU484	Left	1	39.984	/	Pass
		5795	RU484	Left	1	40.029	/	Pass
802.11ax (HE80)	SISO	5210	RU996	Left	1	79.656	/	Pass
		5290	RU996	Left	1	78.753	/	Pass
		5775	RU996	Left	1	80.917	/	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	16.420	≥ 0.5	Pass
		5785	/	/	1	16.408	≥ 0.5	Pass
		5825	/	/	1	16.422	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.649	≥ 0.5	Pass
		5785	/	/	1	17.644	≥ 0.5	Pass
		5825	/	/	1	17.669	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.419	≥ 0.5	Pass
		5795	/	/	1	36.119	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	76.117	≥ 0.5	Pass
802.11ax (HE20)	SISO	5745	RU242	Left	1	19.021	≥ 0.5	Pass
		5785	RU242	Left	1	19.067	≥ 0.5	Pass
		5825	RU242	Left	1	18.994	≥ 0.5	Pass
802.11ax (HE40)	SISO	5755	RU484	Left	1	38.096	≥ 0.5	Pass
		5795	RU484	Left	1	38.073	≥ 0.5	Pass
802.11ax (HE80)	SISO	5775	RU996	Left	1	78.020	≥ 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	25.781	/	Pass
		5200	/	/	1	23.538	/	Pass
		5240	/	/	1	25.237	/	Pass
		5260	/	/	1	24.174	/	Pass
		5300	/	/	1	24.553	/	Pass
		5320	/	/	1	24.400	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	25.319	/	Pass
		5200	/	/	1	25.824	/	Pass

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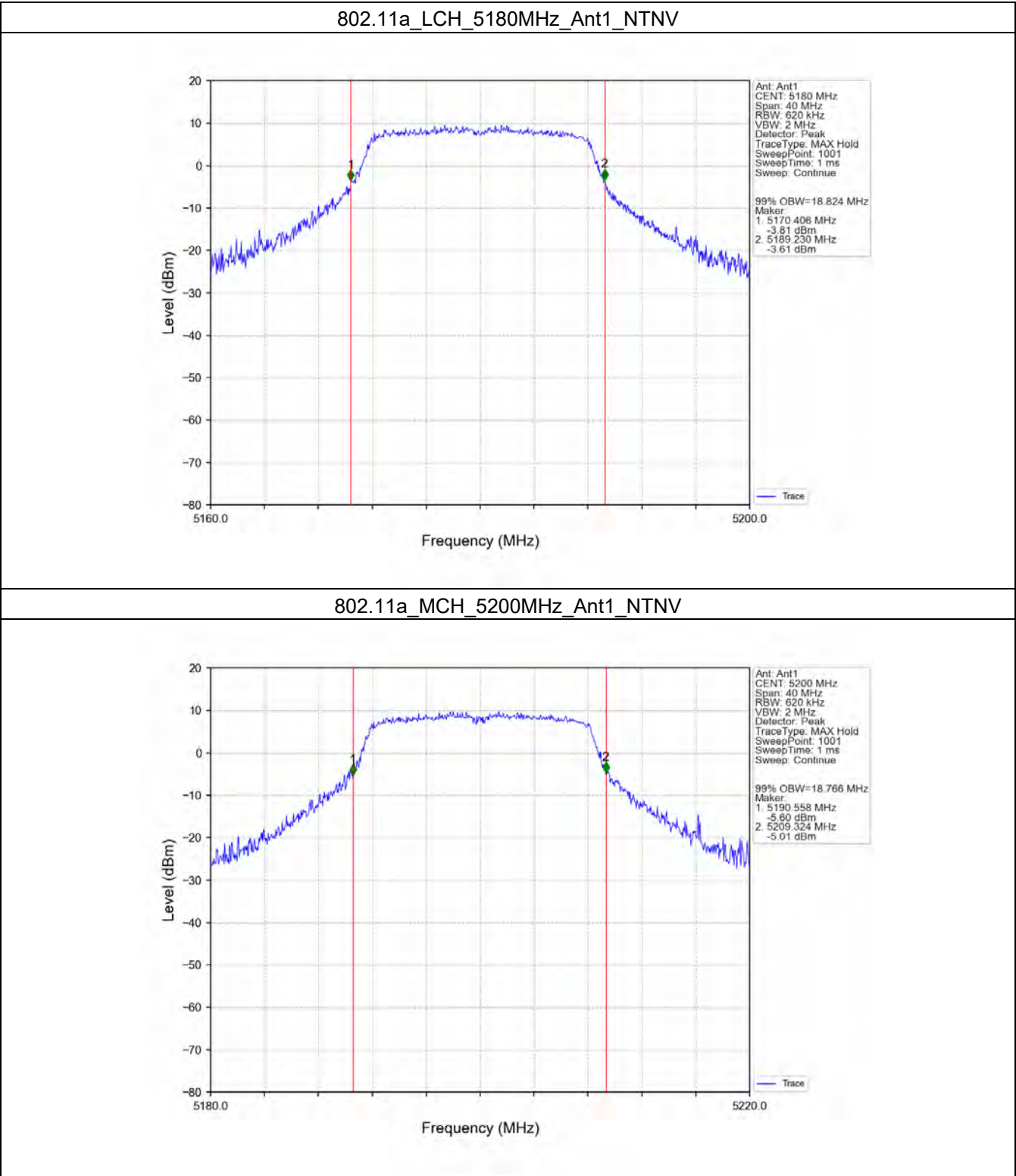
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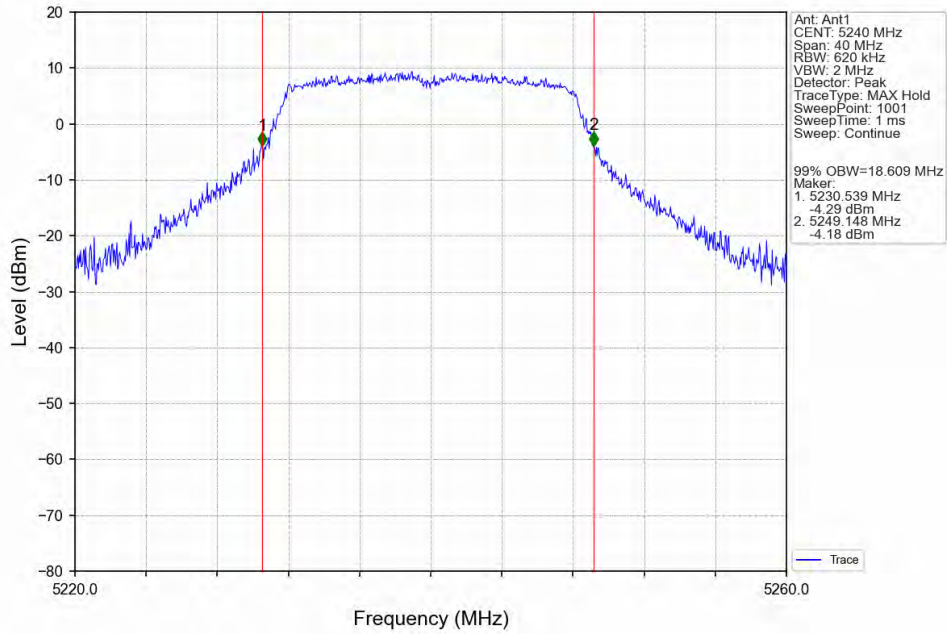
		5240	/	/	1	25.042	/	Pass
		5260	/	/	1	24.696	/	Pass
		5300	/	/	1	25.474	/	Pass
		5320	/	/	1	25.248	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	46.628	/	Pass
		5230	/	/	1	44.915	/	Pass
		5270	/	/	1	45.126	/	Pass
		5310	/	/	1	45.653	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	89.715	/	Pass
		5290	/	/	1	95.170	/	Pass
802.11ax (HE20)	SISO	5180	RU242	Left	1	26.697	/	Pass
		5200	RU242	Left	1	25.490	/	Pass
		5240	RU242	Left	1	24.776	/	Pass
		5260	RU242	Left	1	24.657	/	Pass
		5300	RU242	Left	1	25.150	/	Pass
		5320	RU242	Left	1	25.082	/	Pass
802.11ax (HE40)	SISO	5190	RU484	Left	1	46.592	/	Pass
		5230	RU484	Left	1	45.352	/	Pass
		5270	RU484	Left	1	44.213	/	Pass
		5310	RU484	Left	1	45.776	/	Pass
802.11ax (HE80)	SISO	5210	RU996	Left	1	121.670	/	Pass
		5290	RU996	Left	1	85.958	/	Pass

2.2 Test Graph

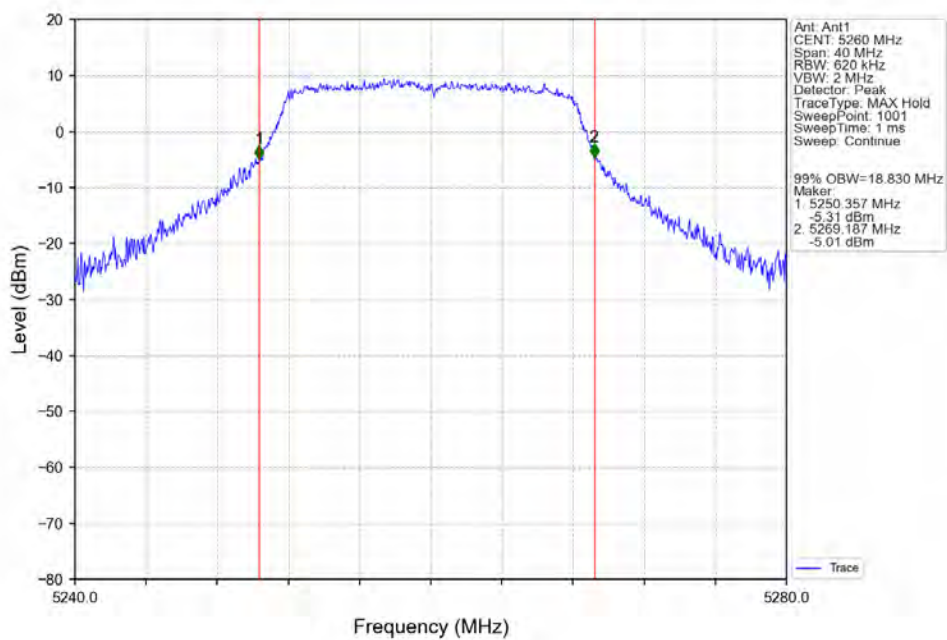
2.2.1 OBW



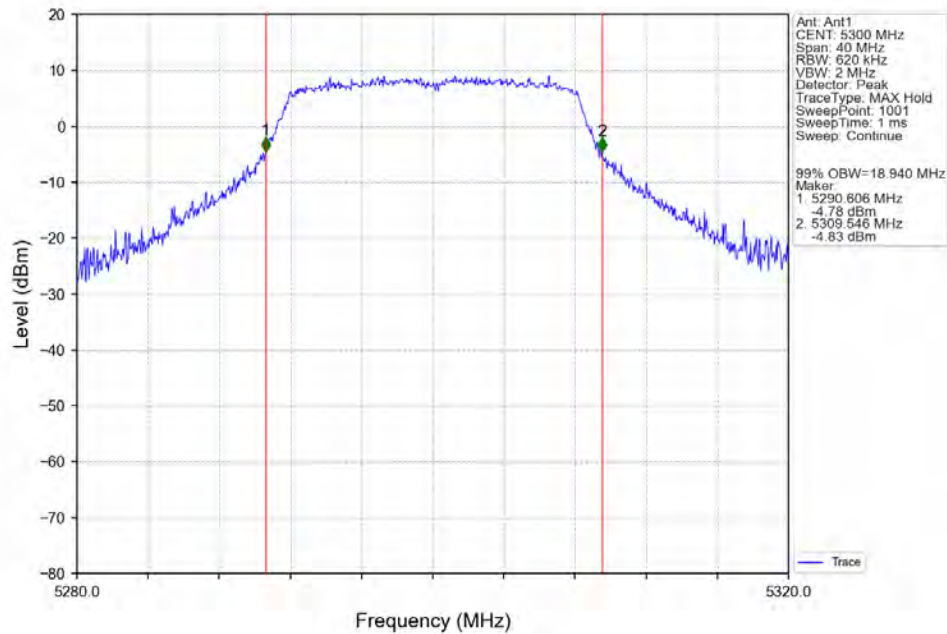
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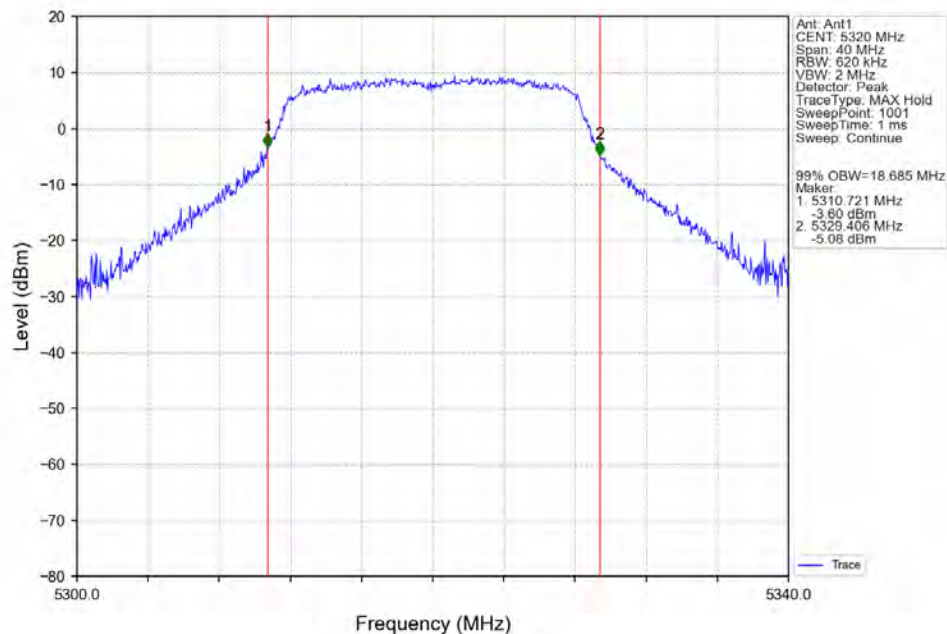
802.11a_LCH_5260MHz_Ant1_NTNV



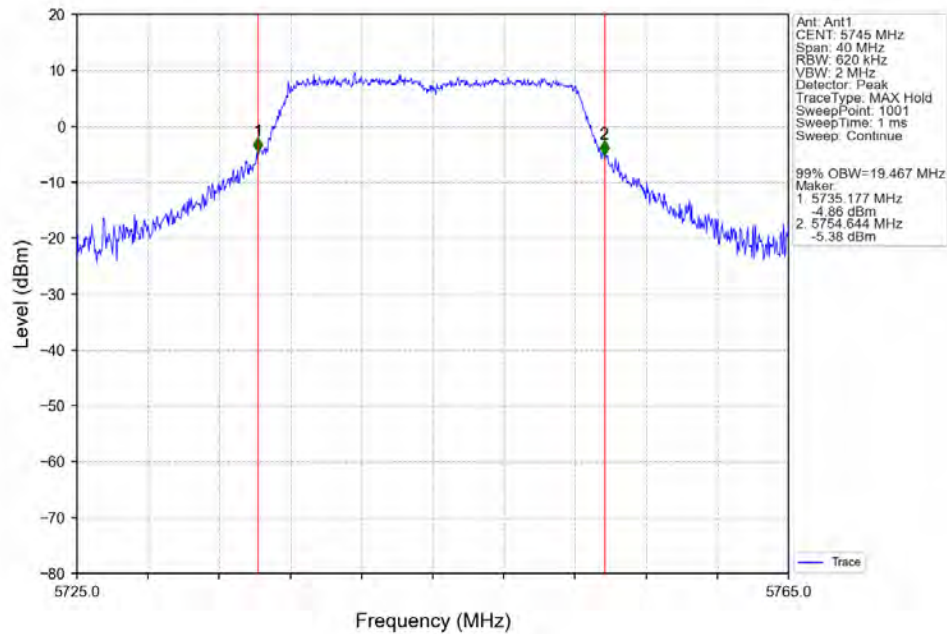
802.11a_MCH_5300MHz_Ant1_NTNV



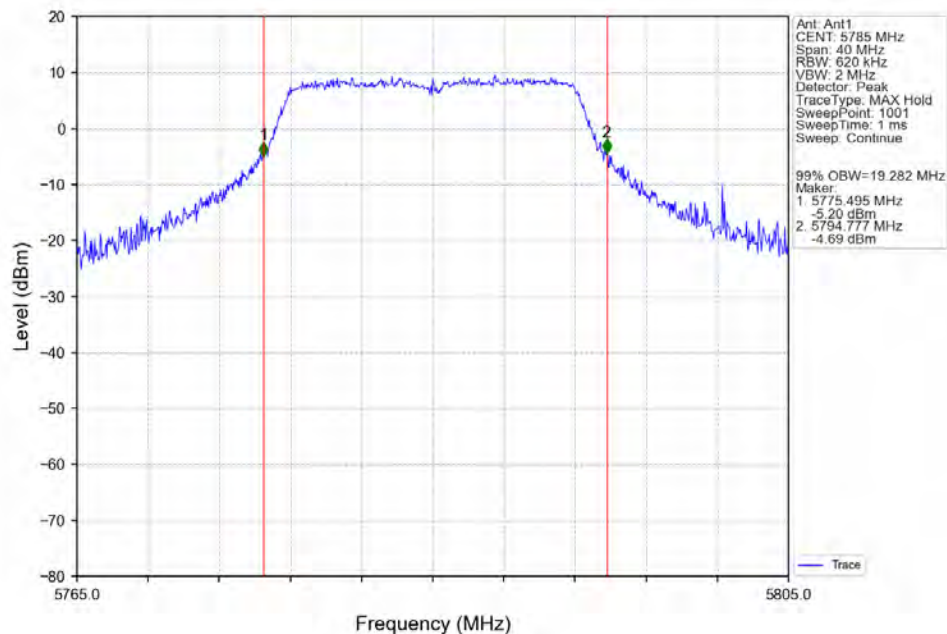
802.11a_HCH_5320MHz_Ant1_NTNV



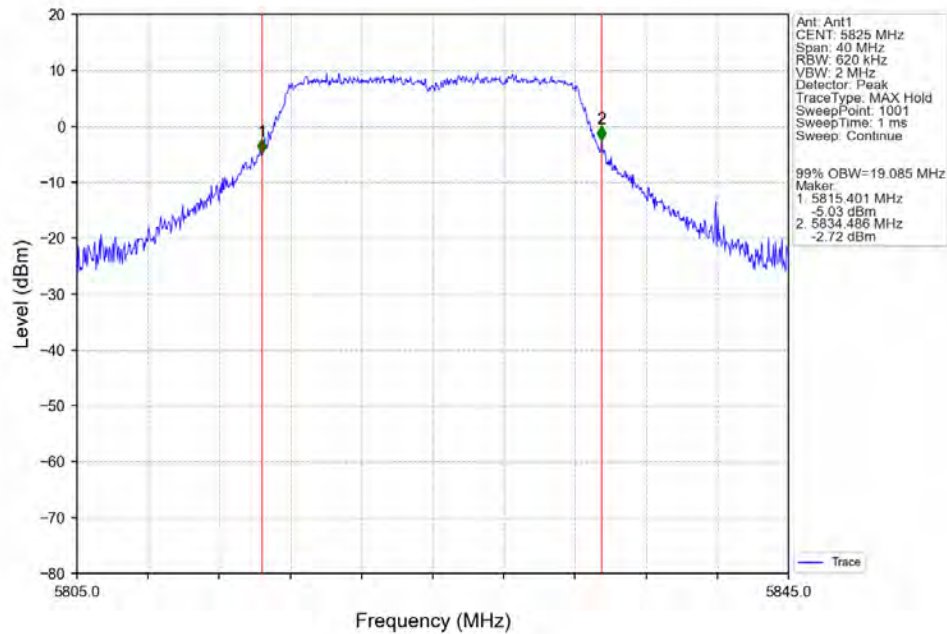
802.11a_LCH_5745MHz_Ant1_NTNV



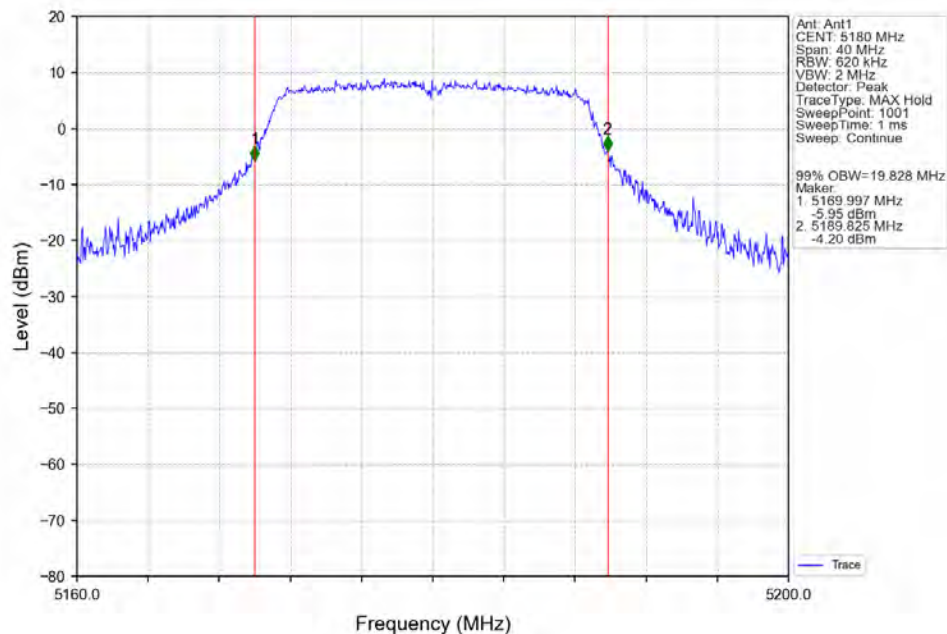
802.11a_MCH_5785MHz_Ant1_NTNV



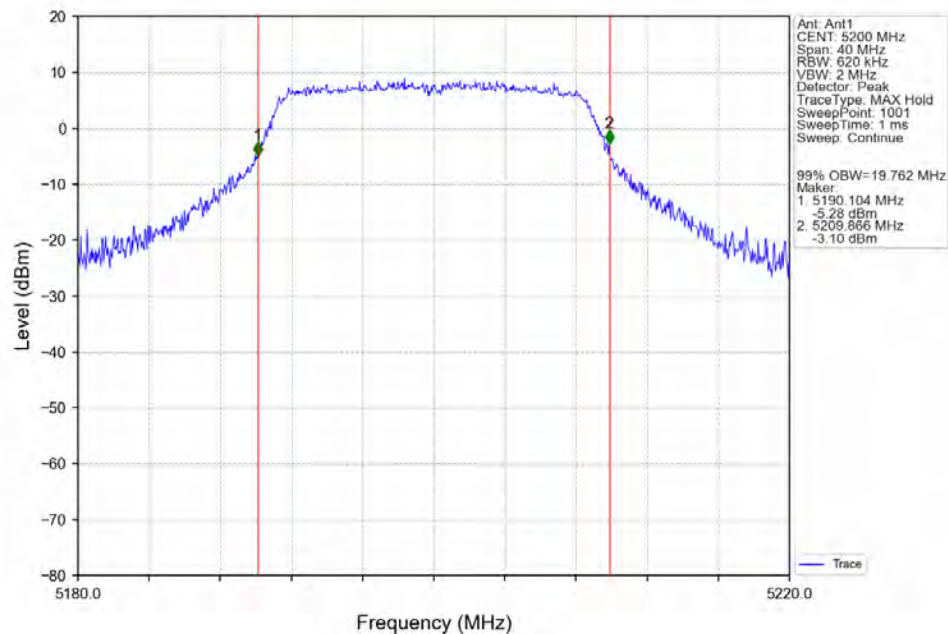
802.11a_HCH_5825MHz_Ant1_NTNV



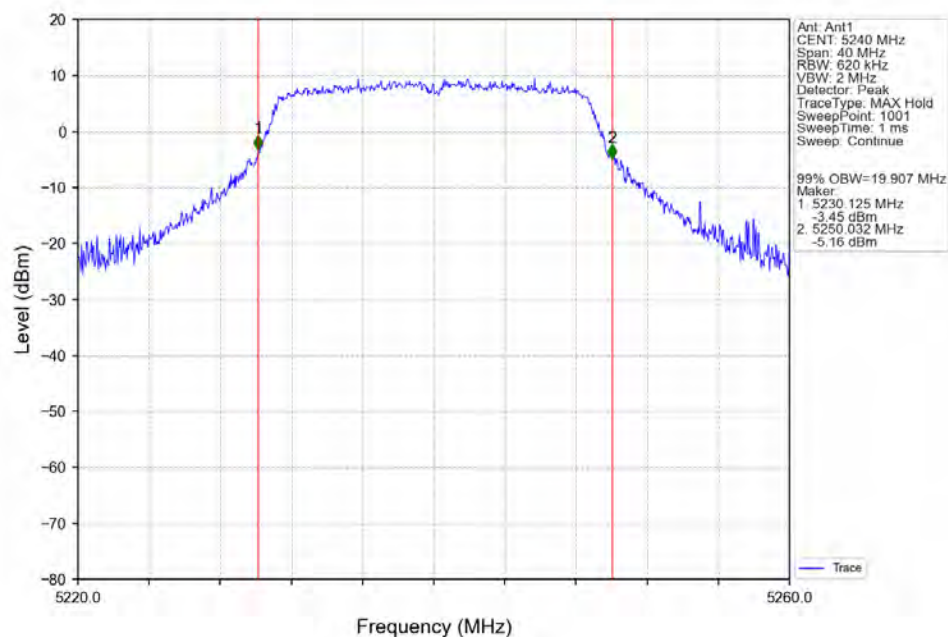
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



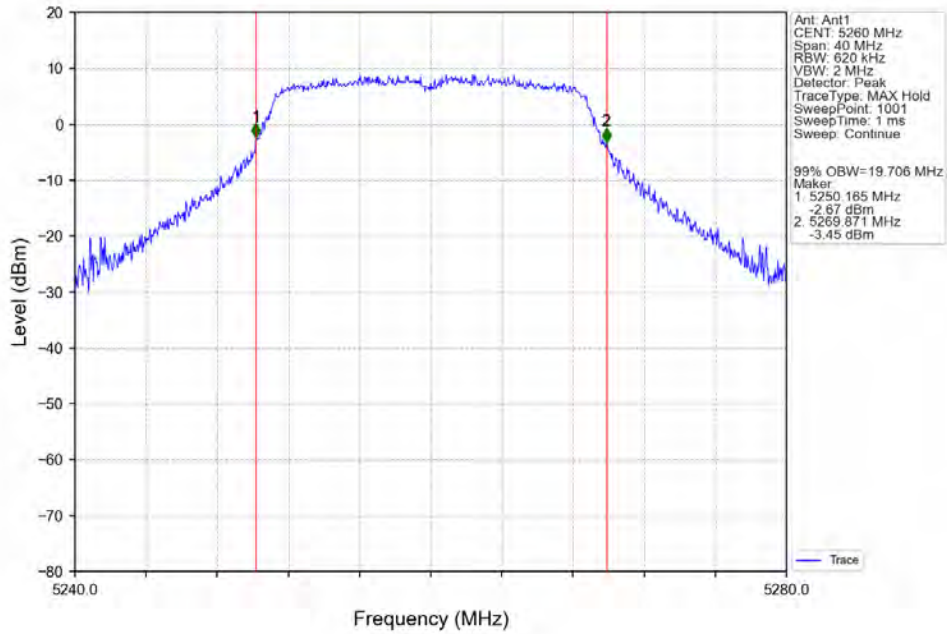
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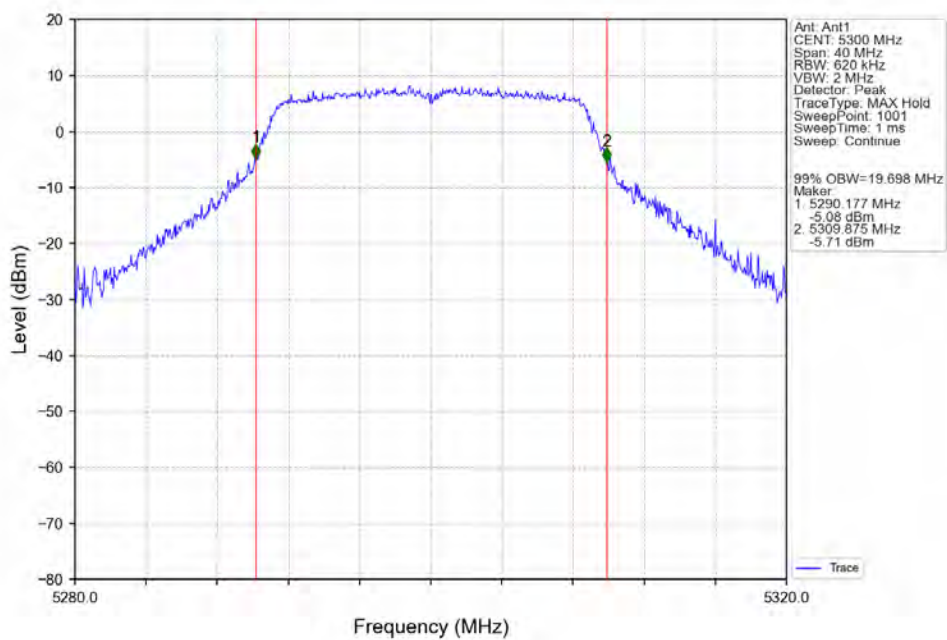
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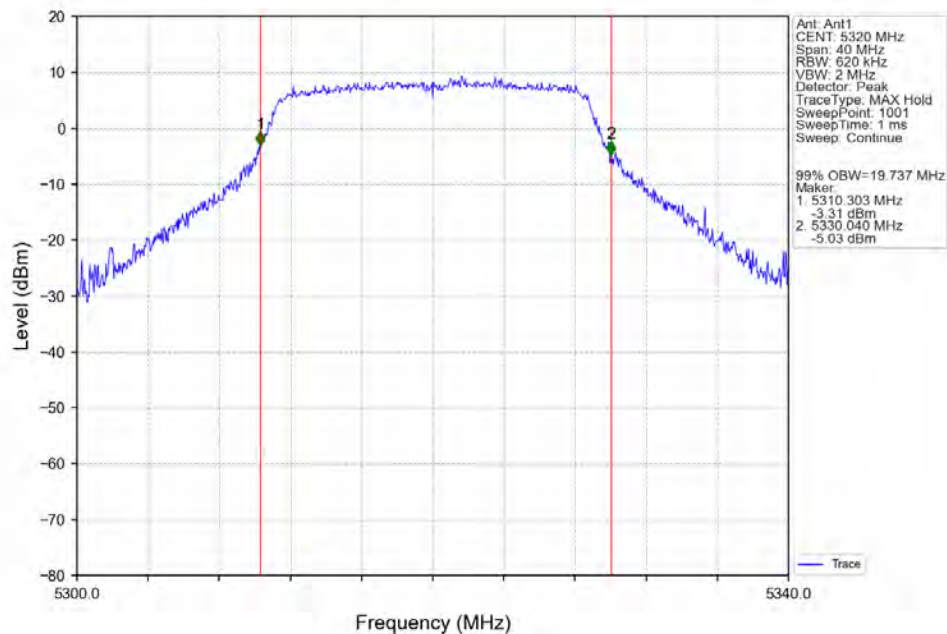
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



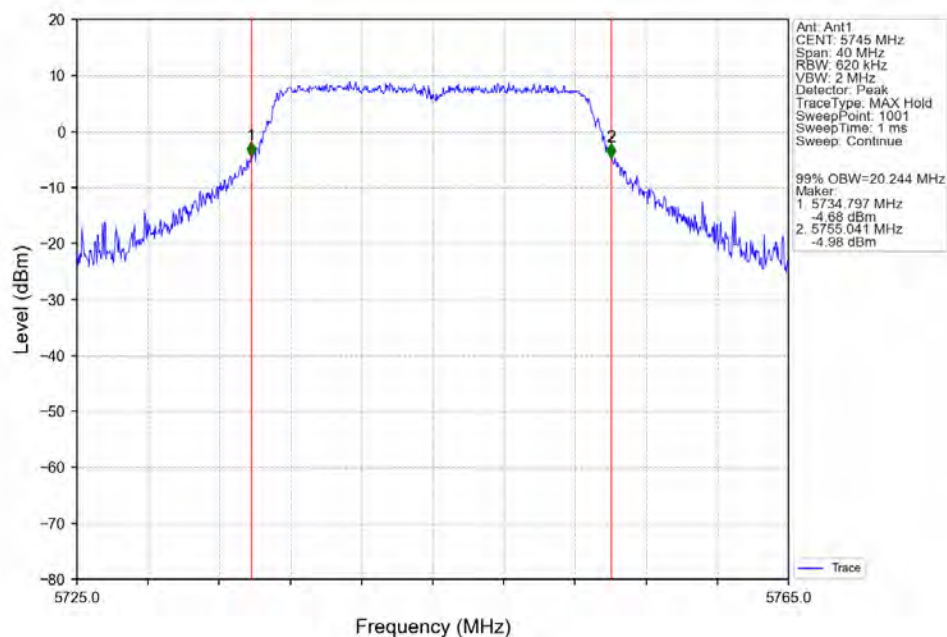
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



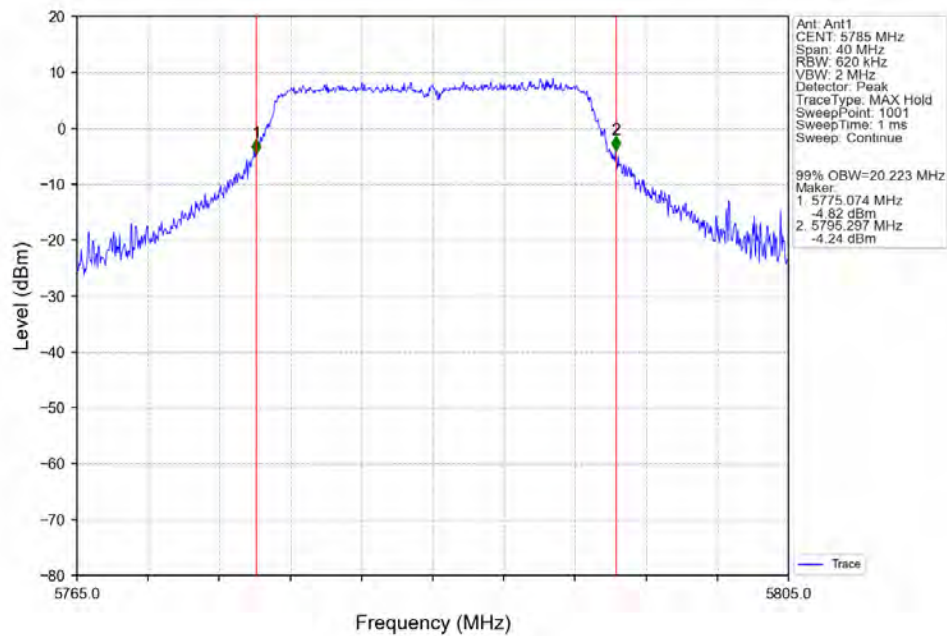
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



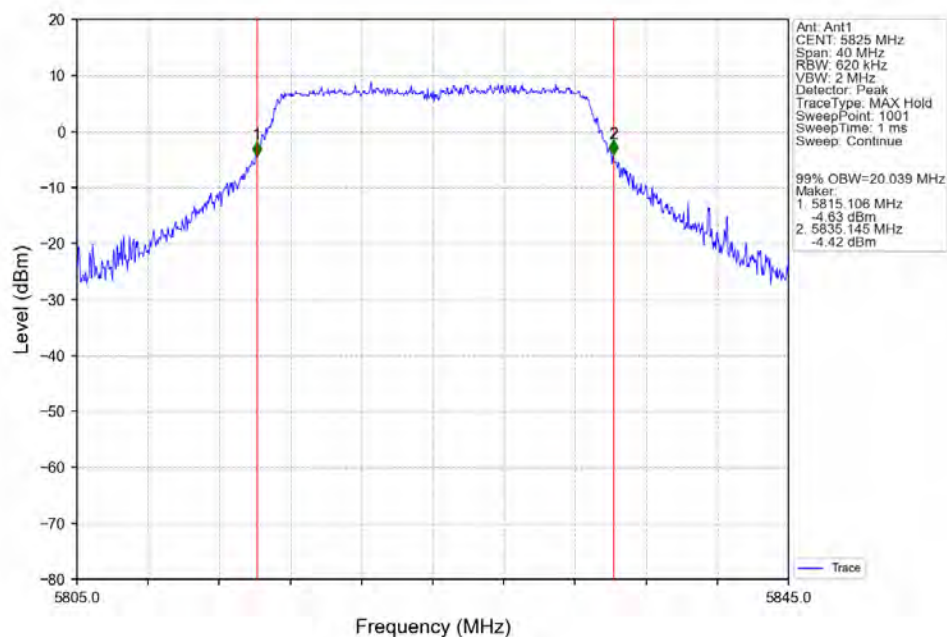
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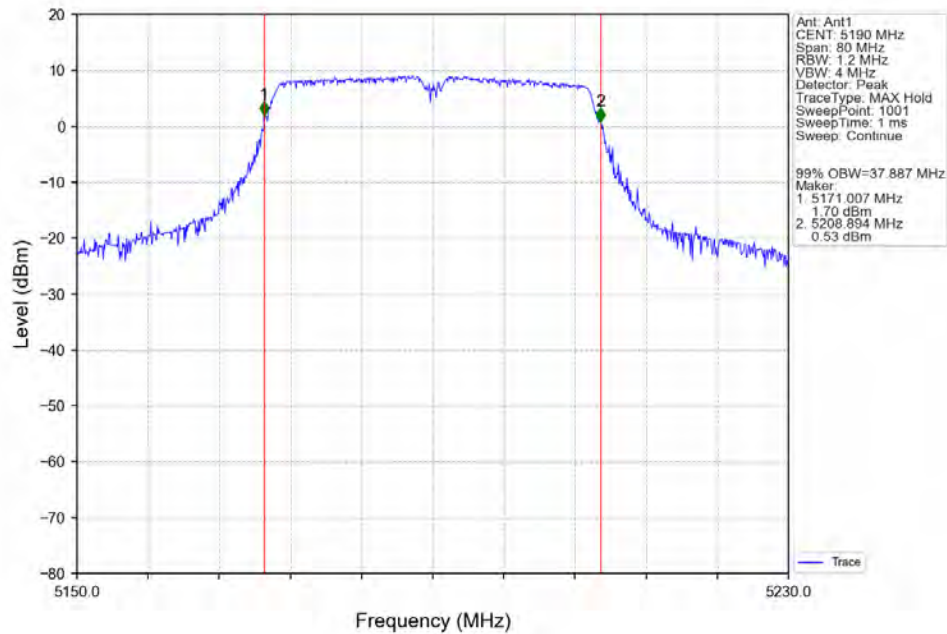
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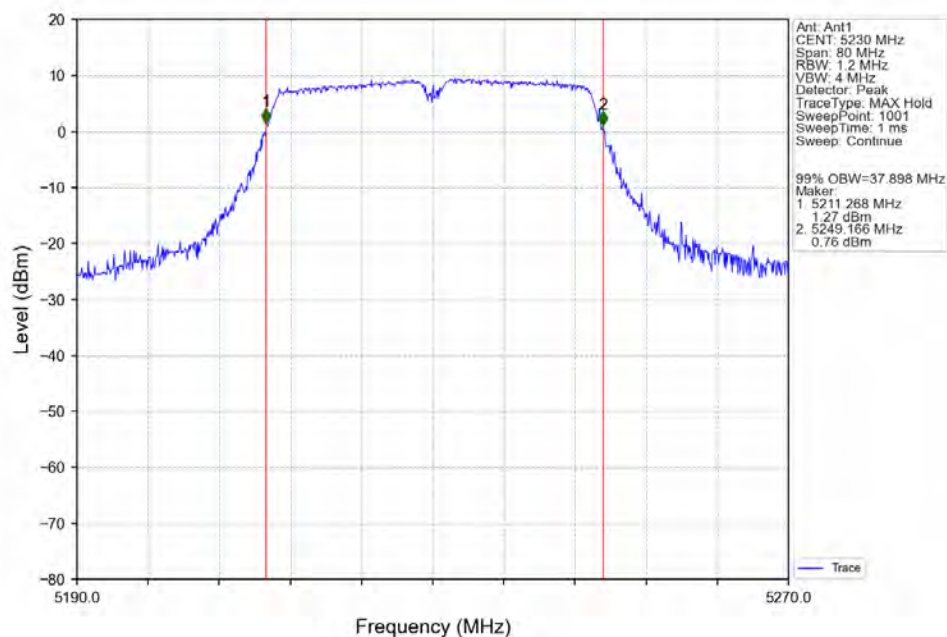
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



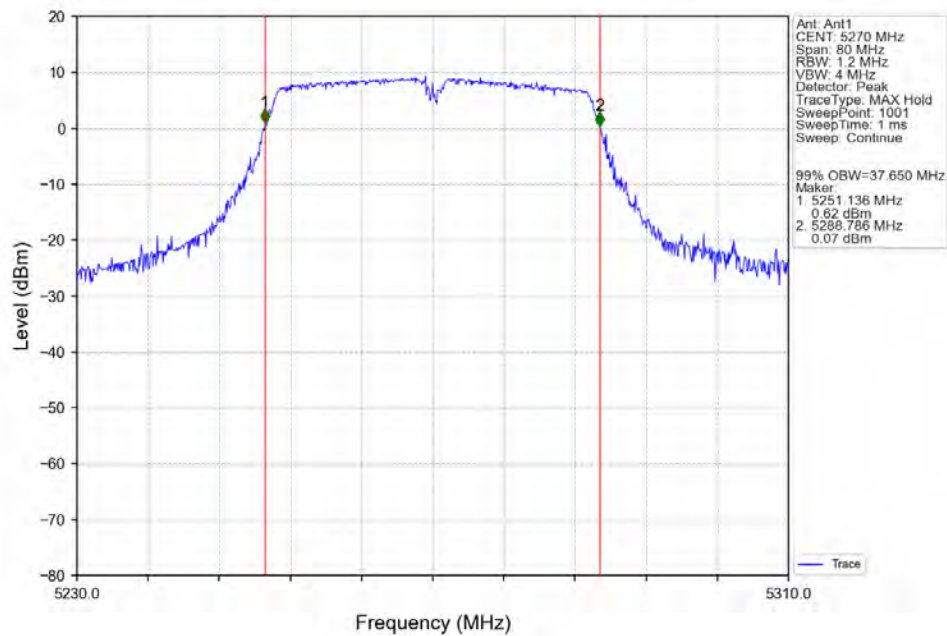
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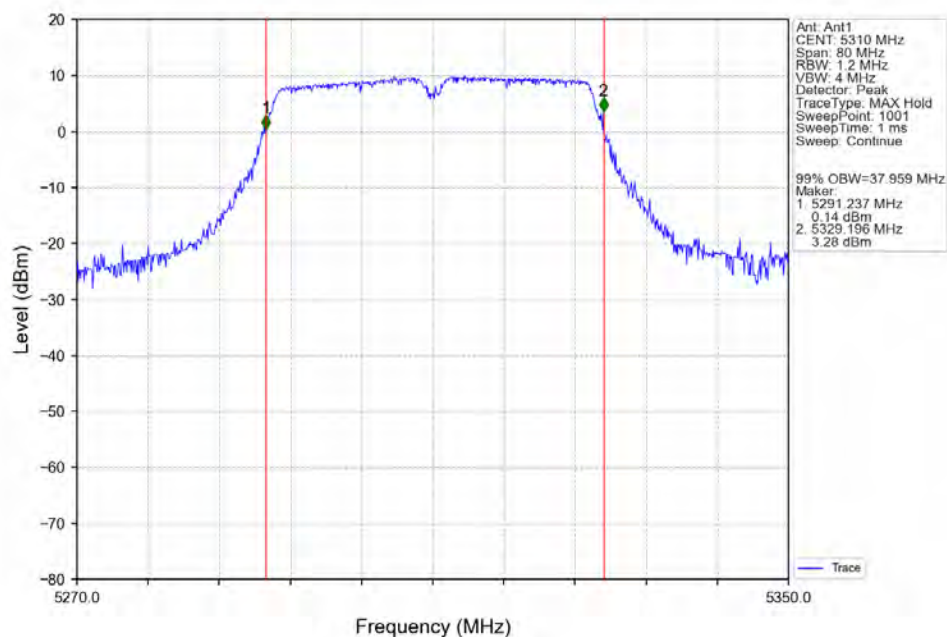
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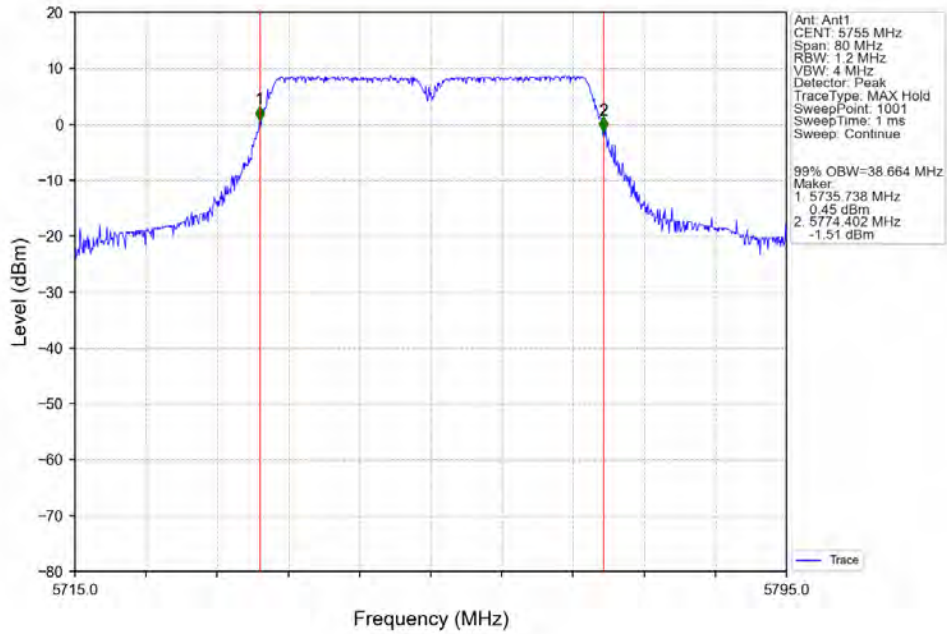
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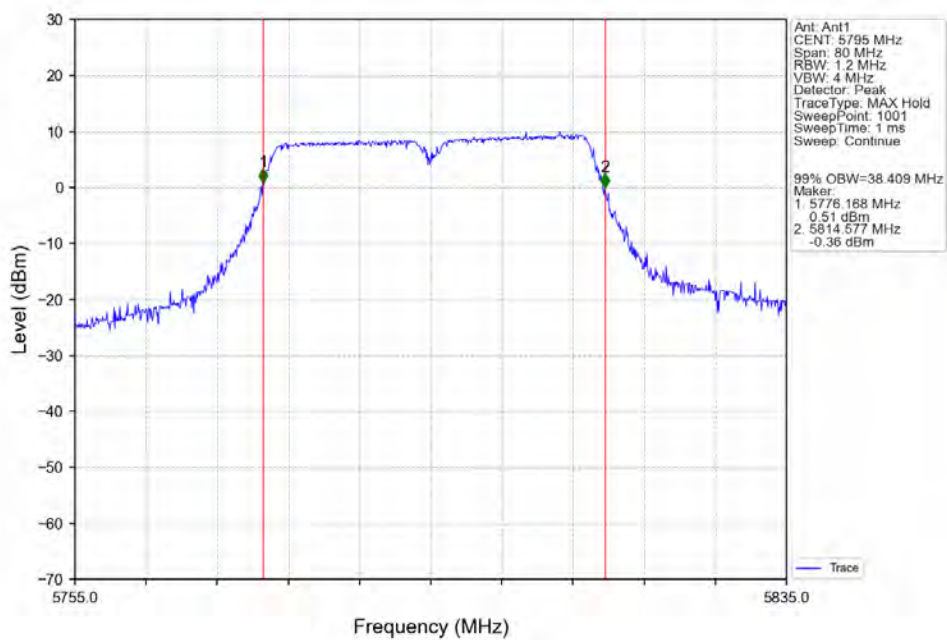
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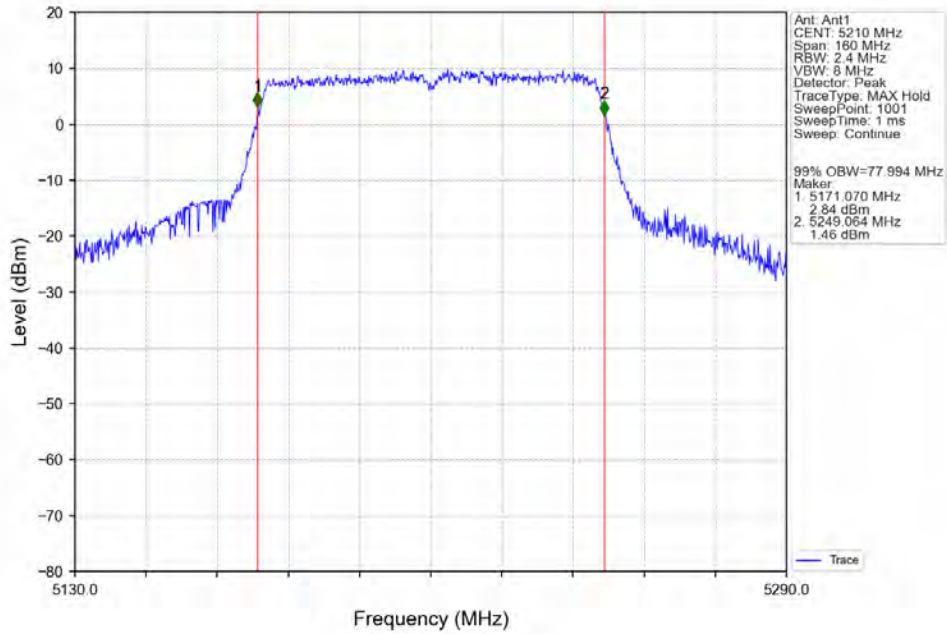
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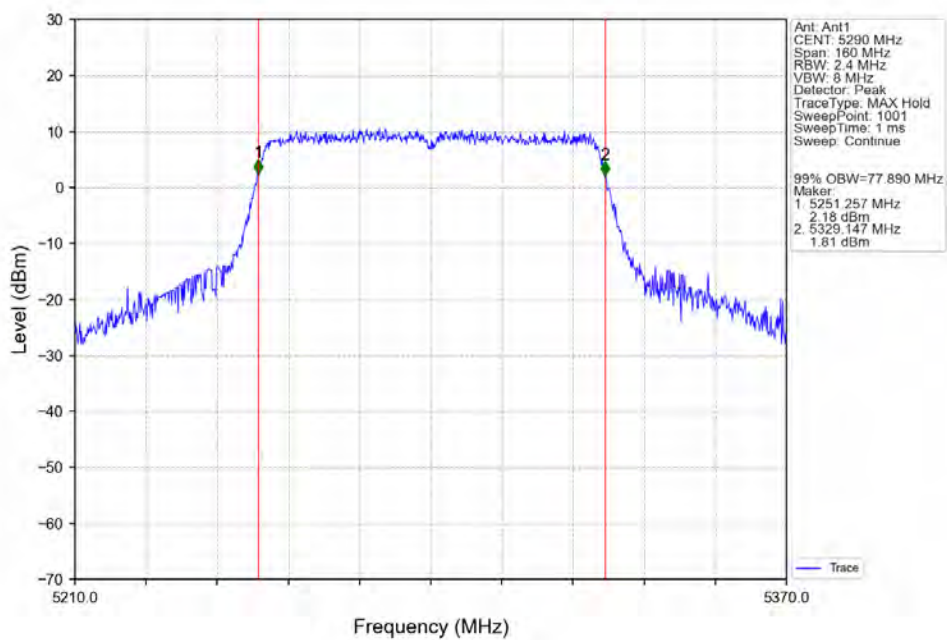
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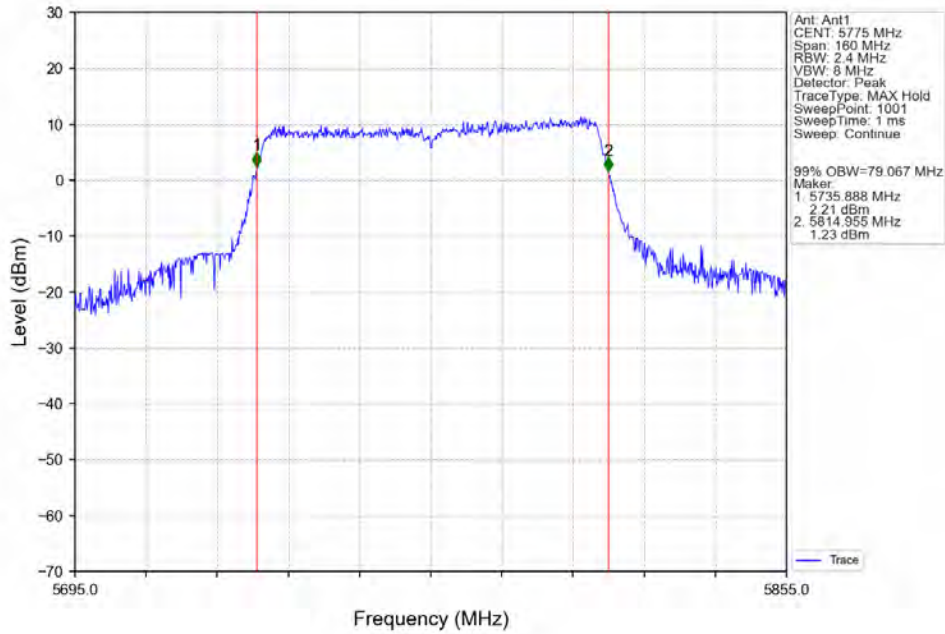
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



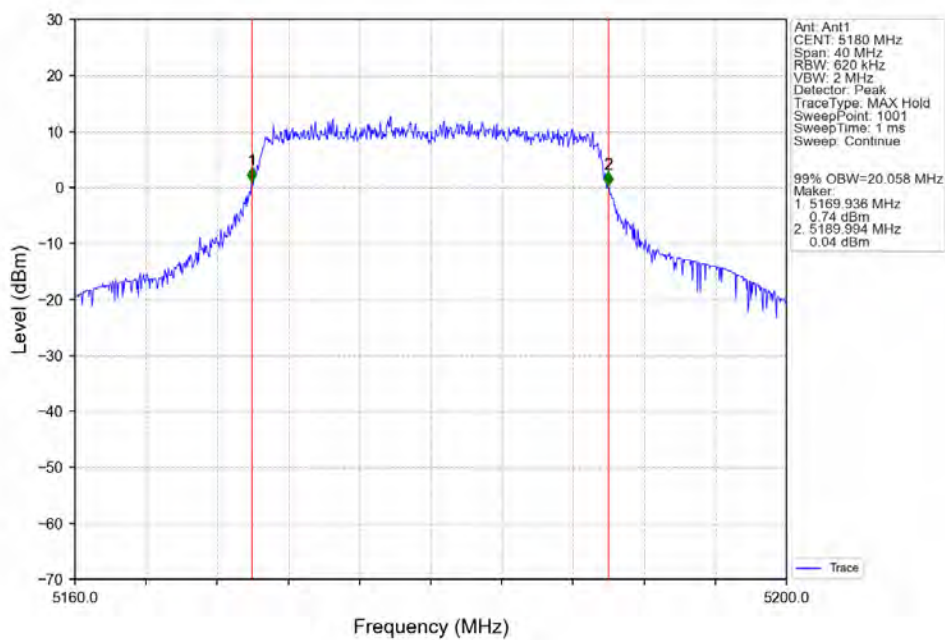
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



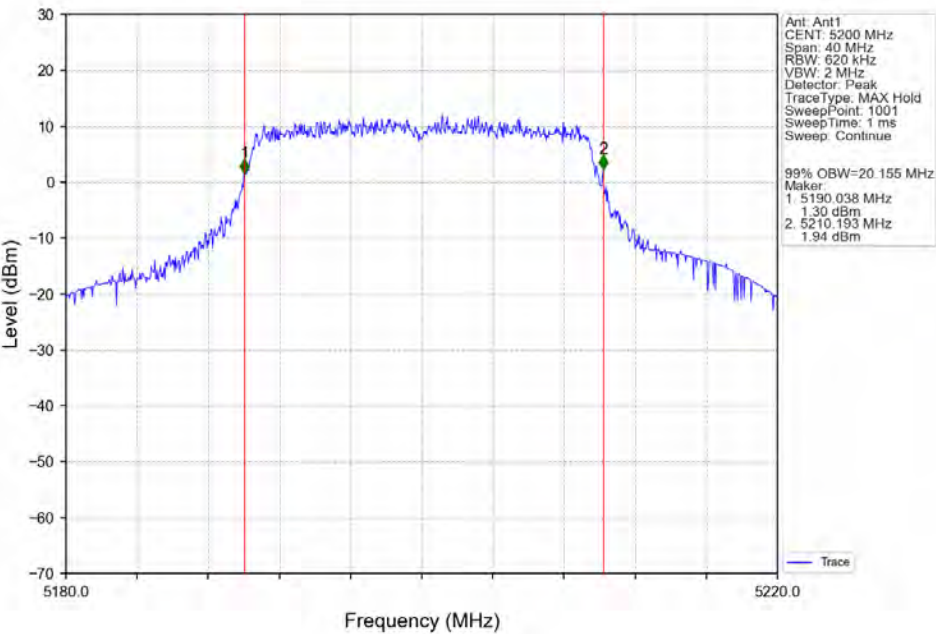
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



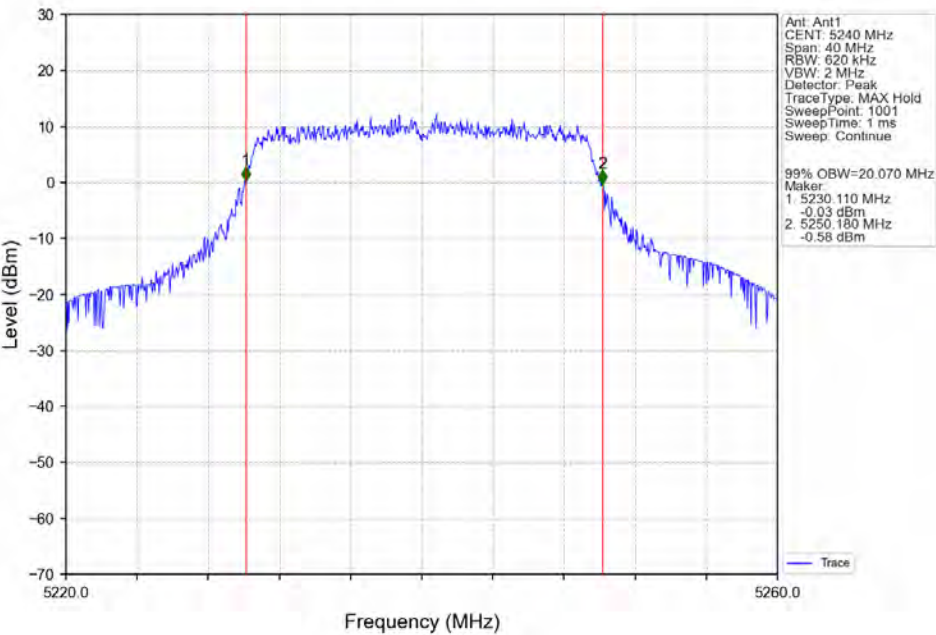
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802.11ax(HE20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



802.11ax(HE20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



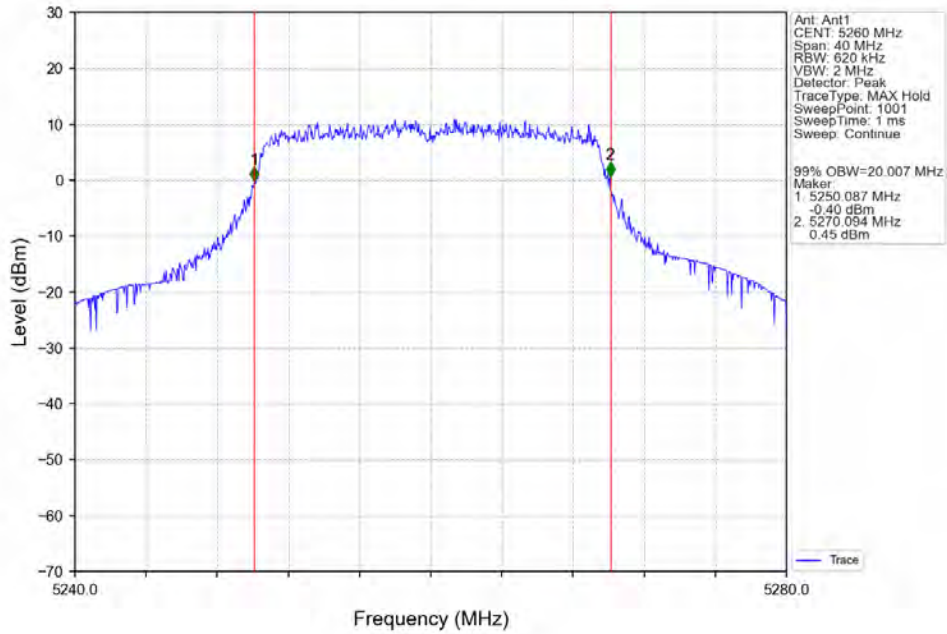
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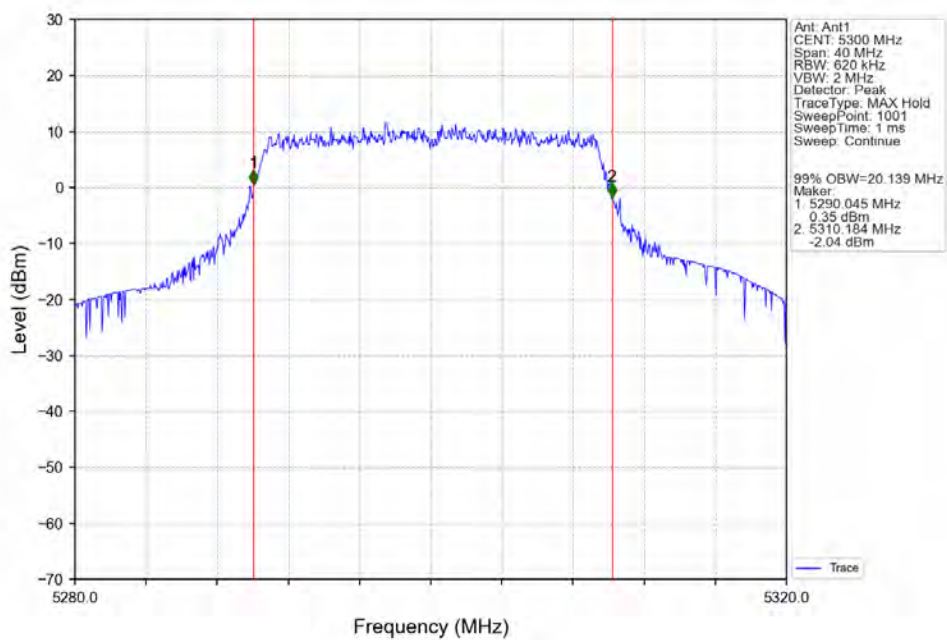
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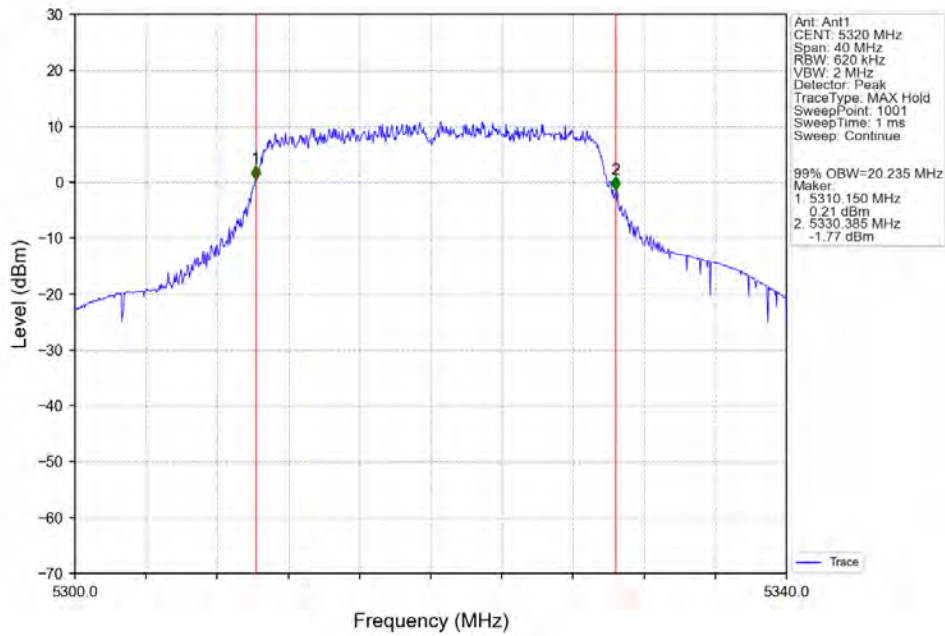
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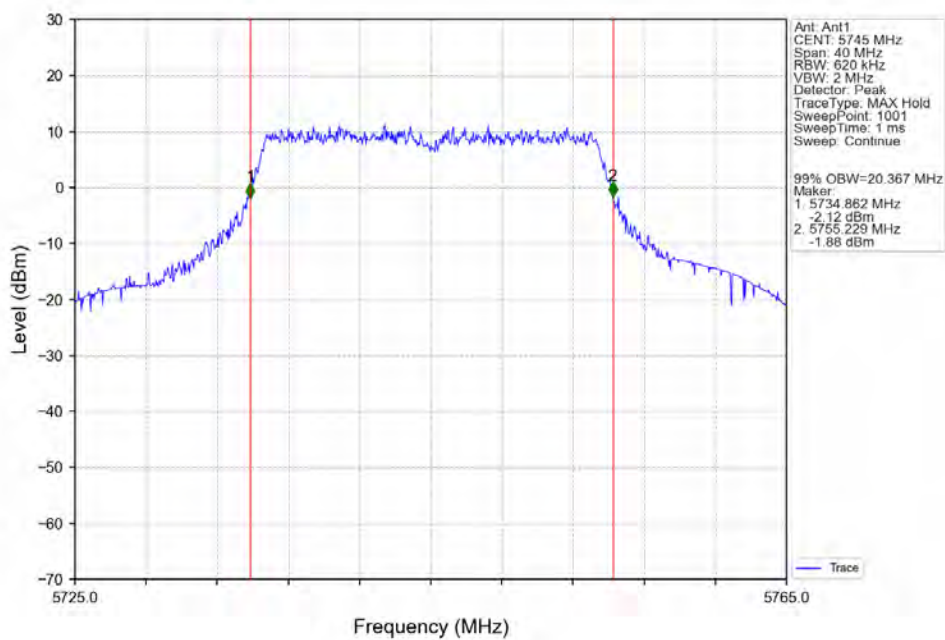
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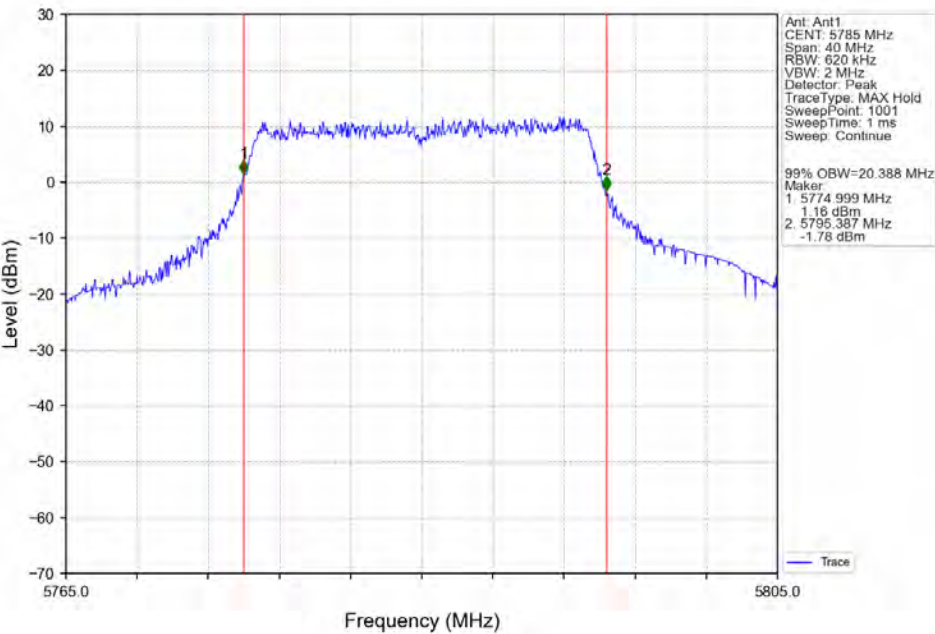
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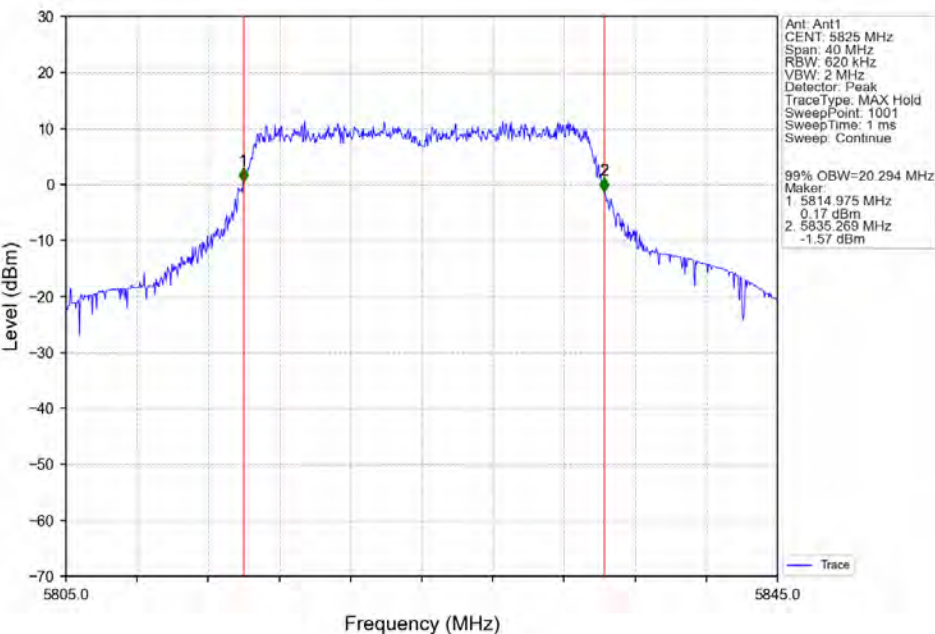
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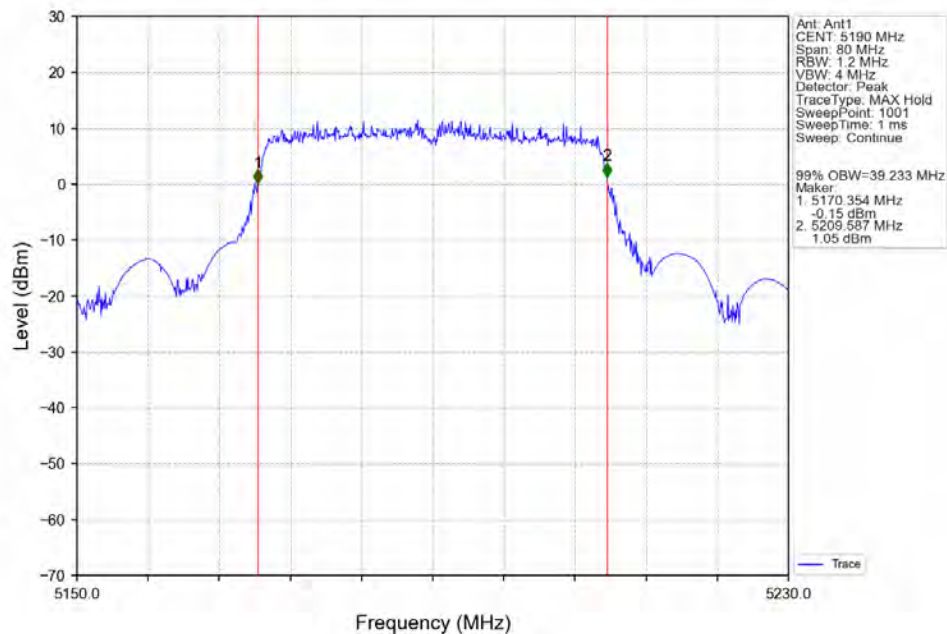
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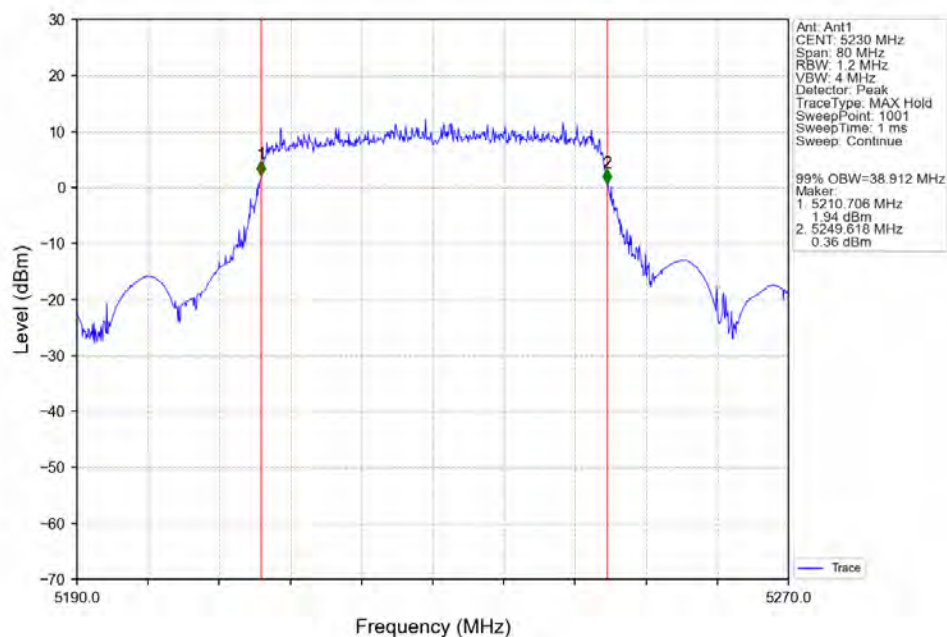
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802.11ax(HE40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HE40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



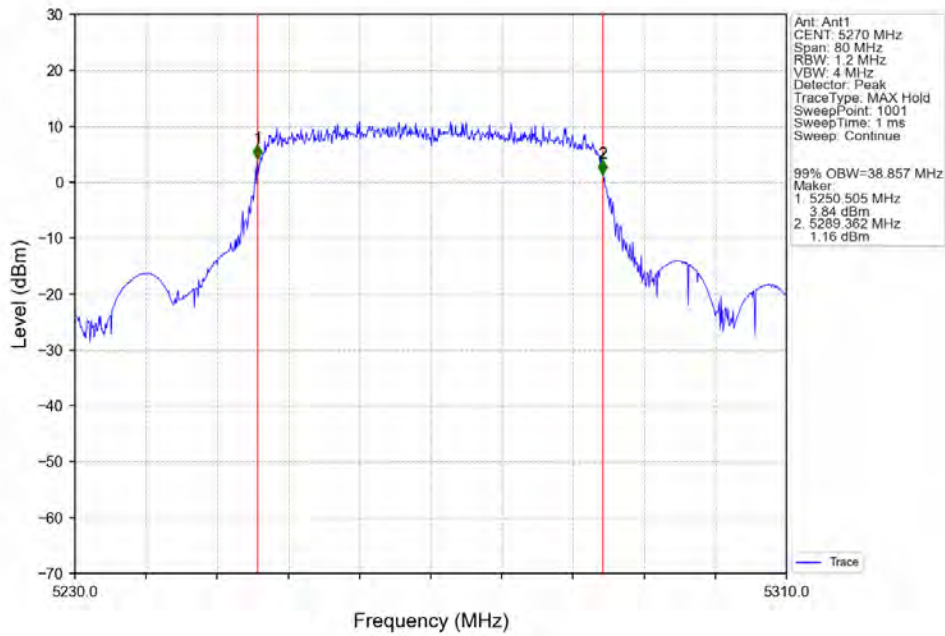
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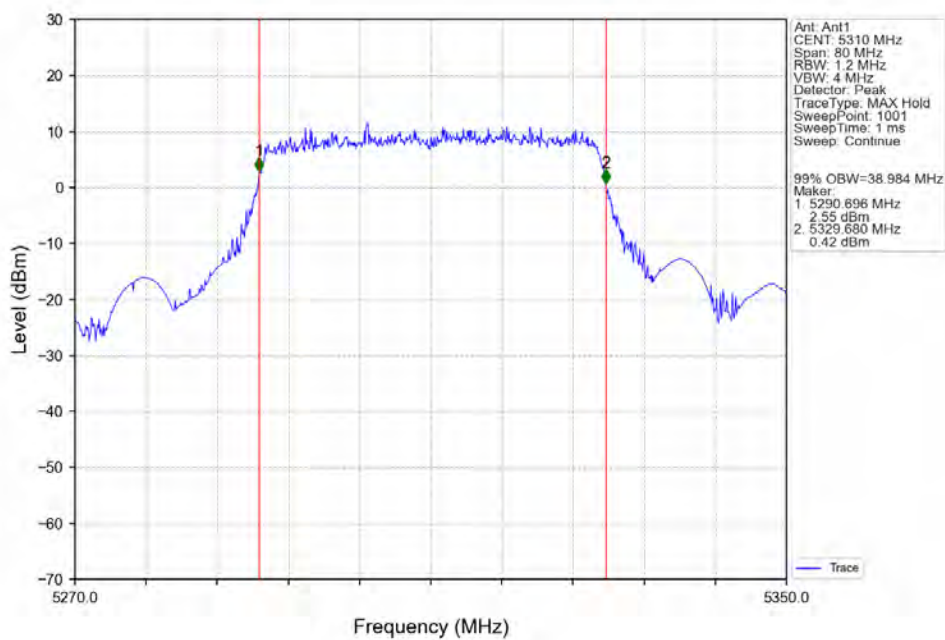
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802.11ax(HE40)_LCH_5270MHz_RU484_Left_Ant1_NTNV



802.11ax(HE40)_HCH_5310MHz_RU484_Left_Ant1_NTNV



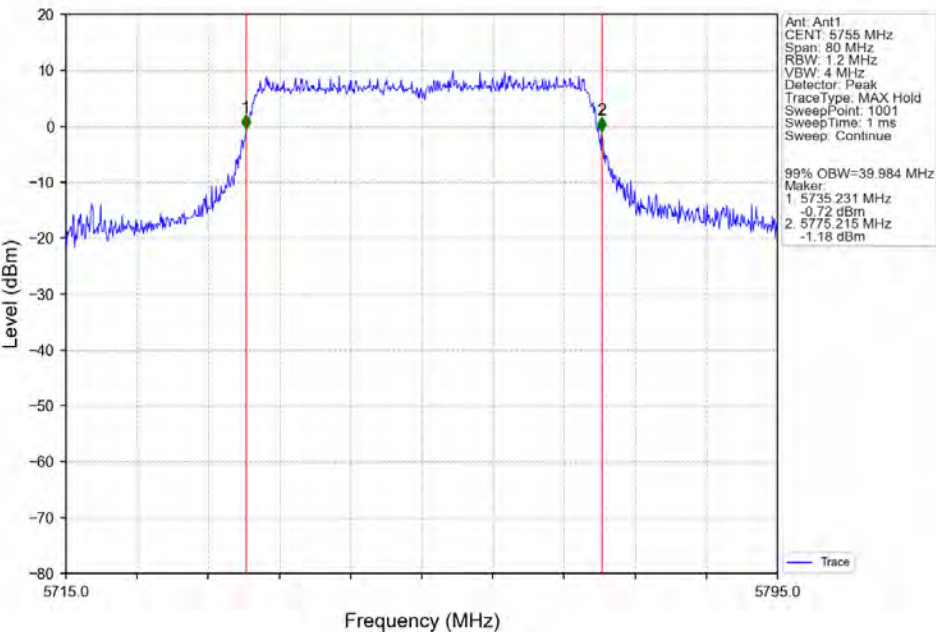
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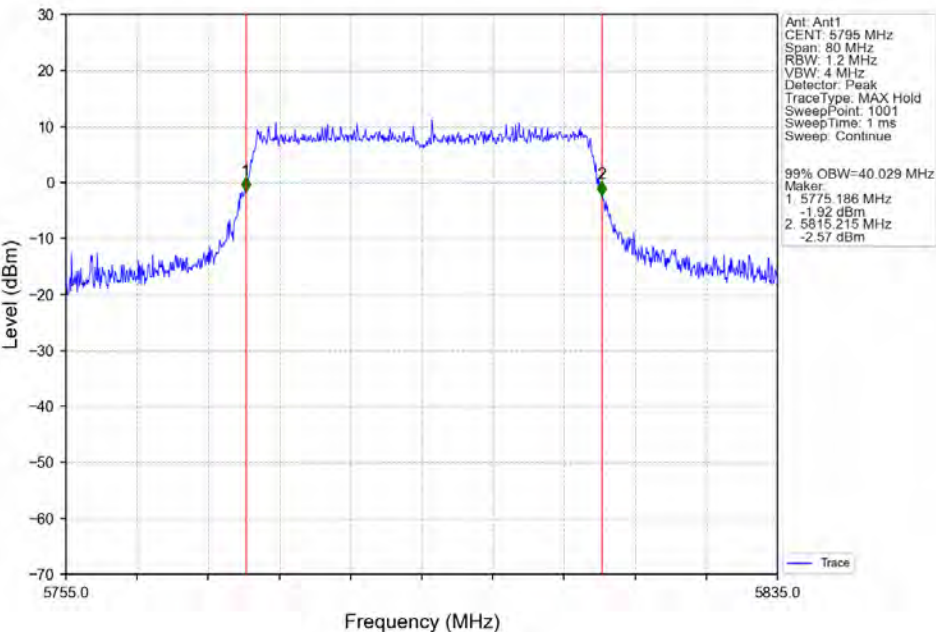
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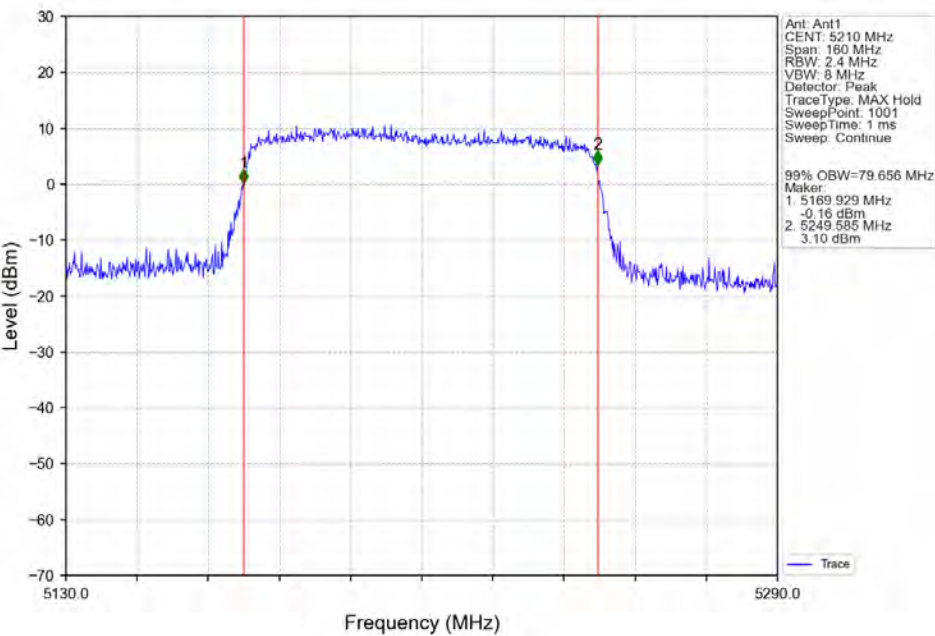
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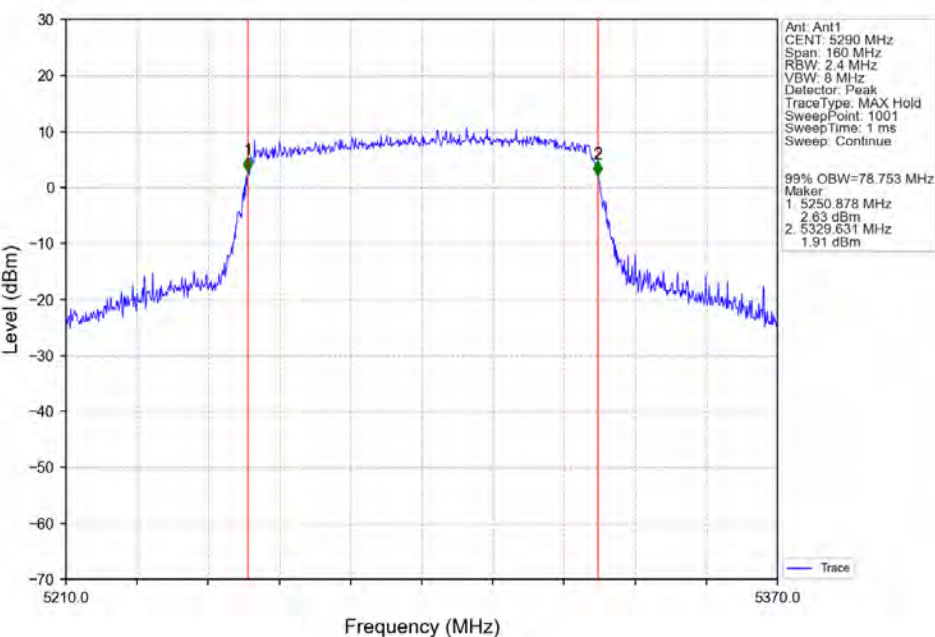
802.11ax(HE40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



802.11ax(HE80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



802.11ax(HE80)_MCH_5290MHz_RU996_Left_Ant1_NTNV



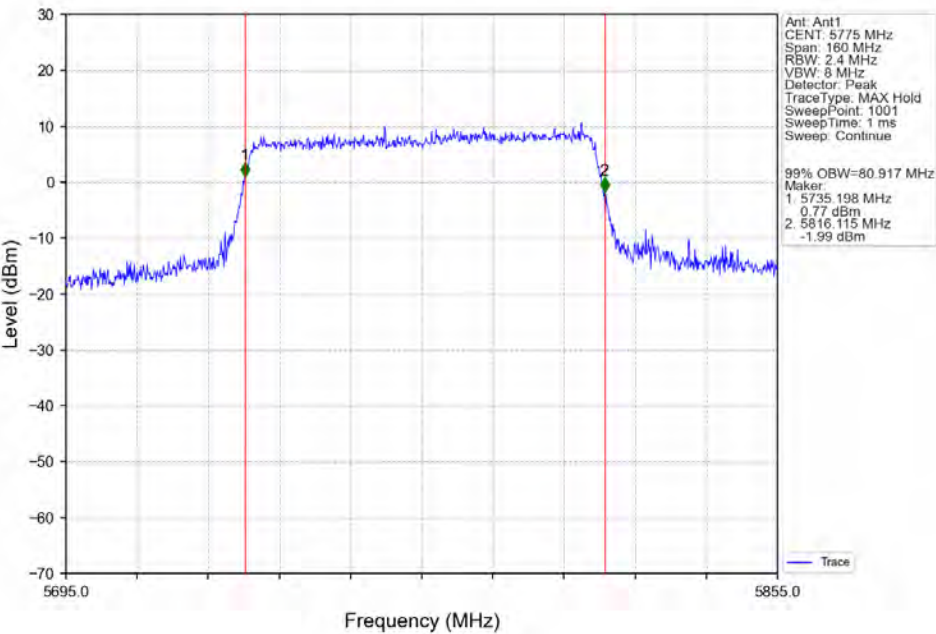
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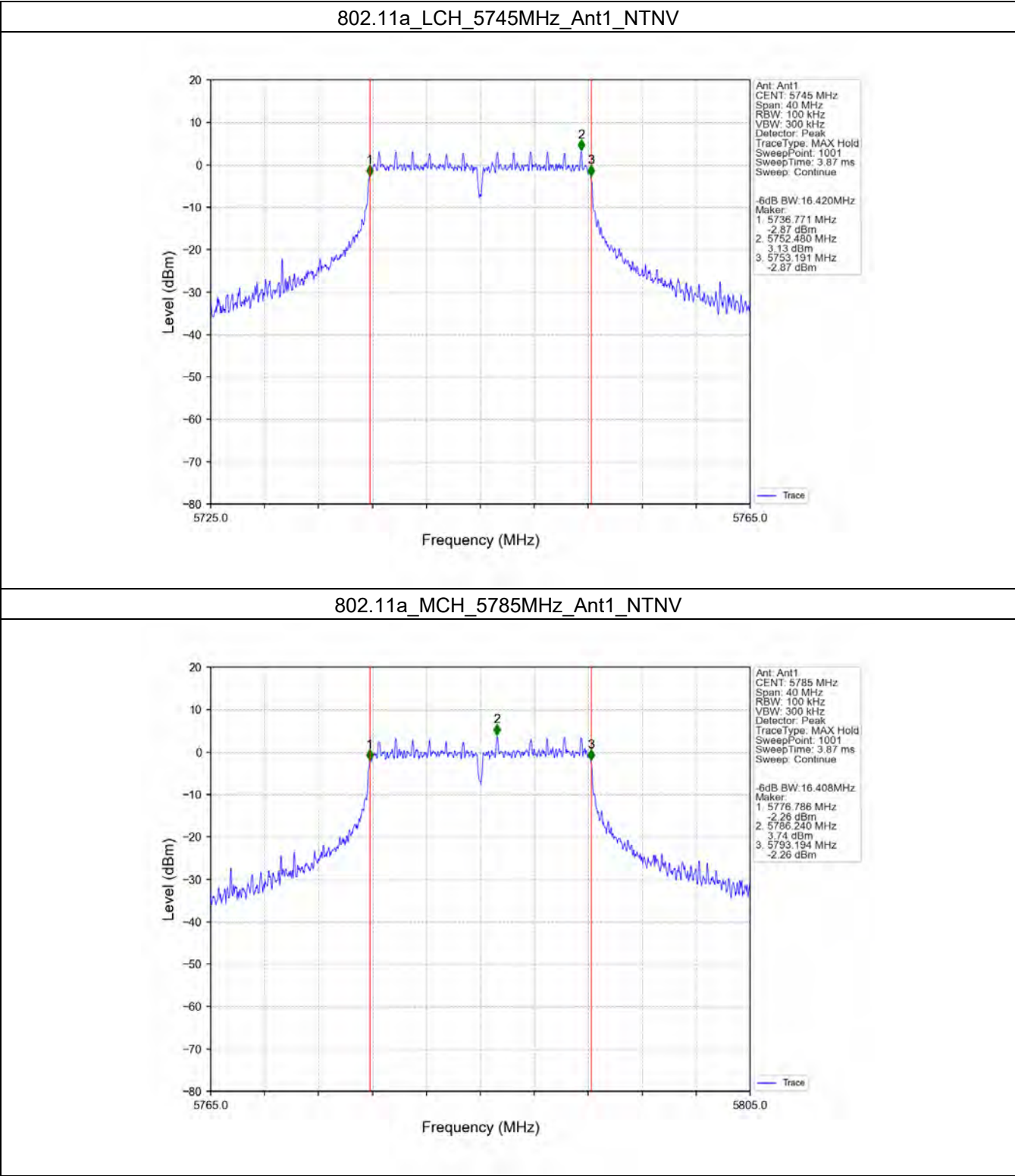
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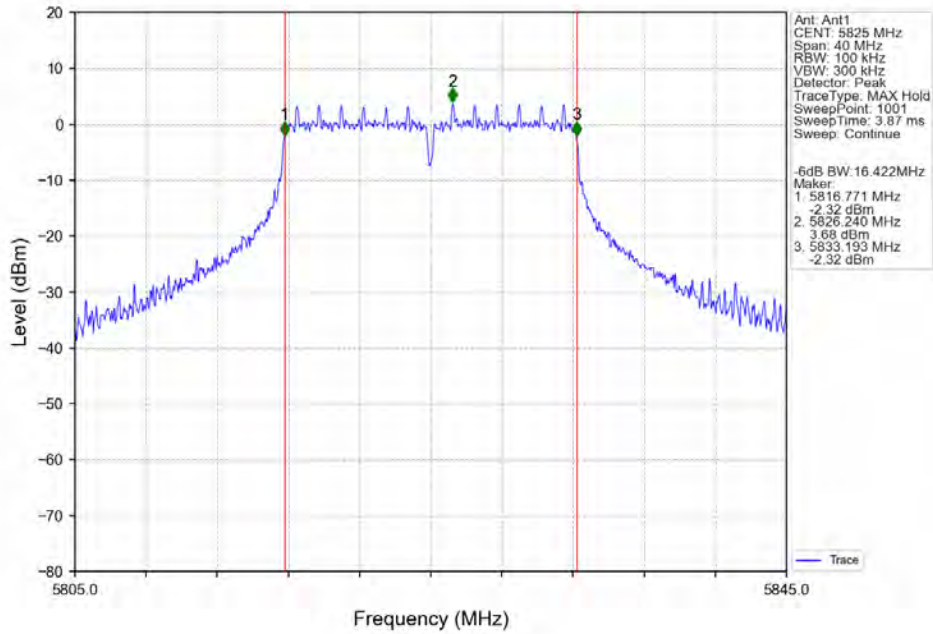
802.11ax(HE80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



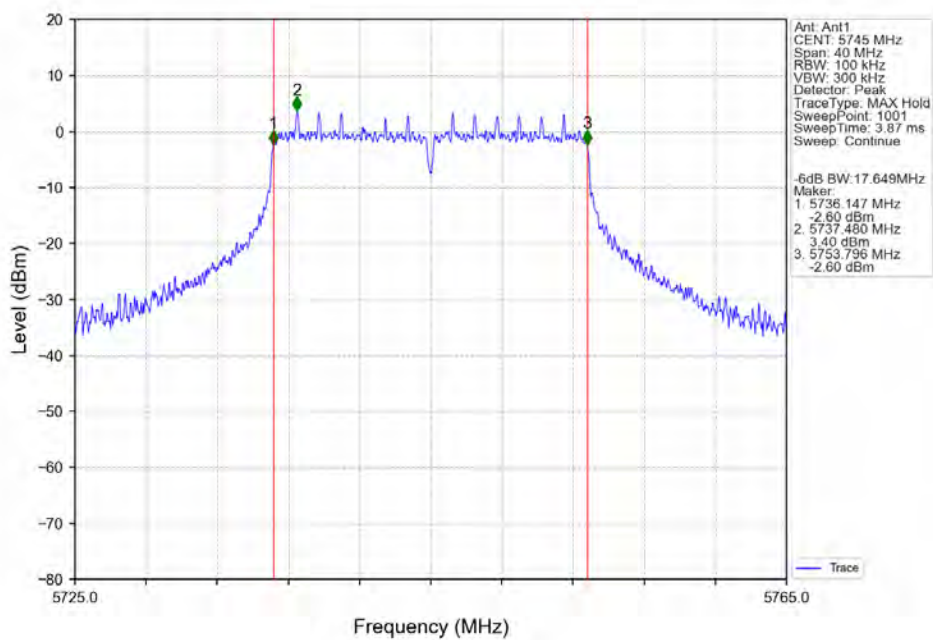
2.2.2 6dB BW



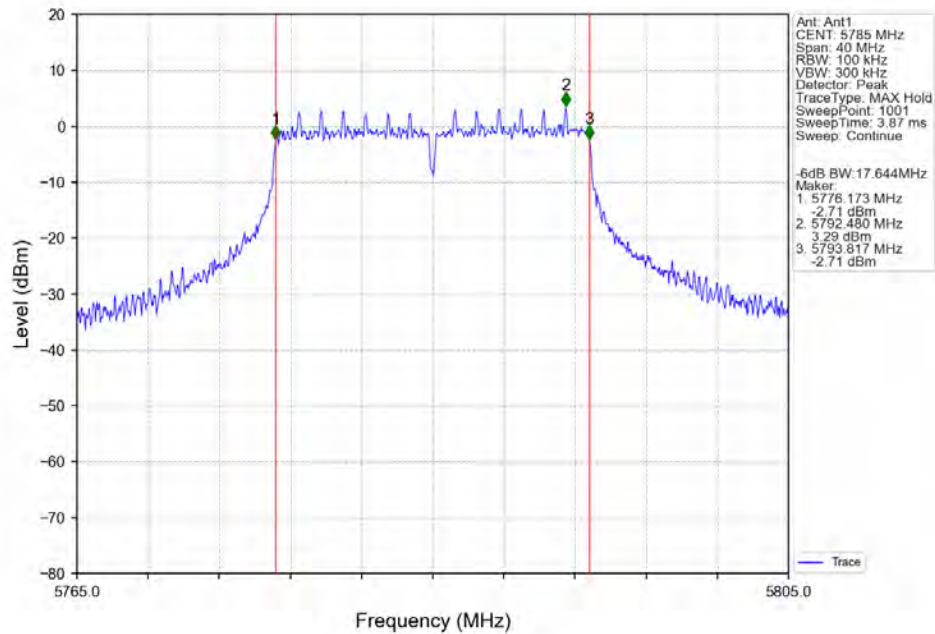
802.11a_HCH_5825MHz_Ant1_NTNV



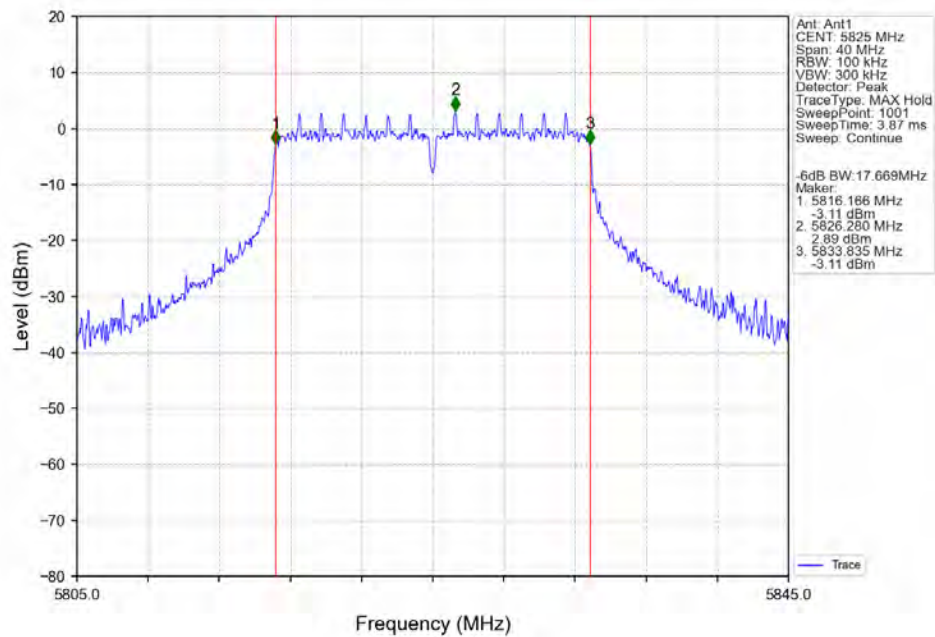
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



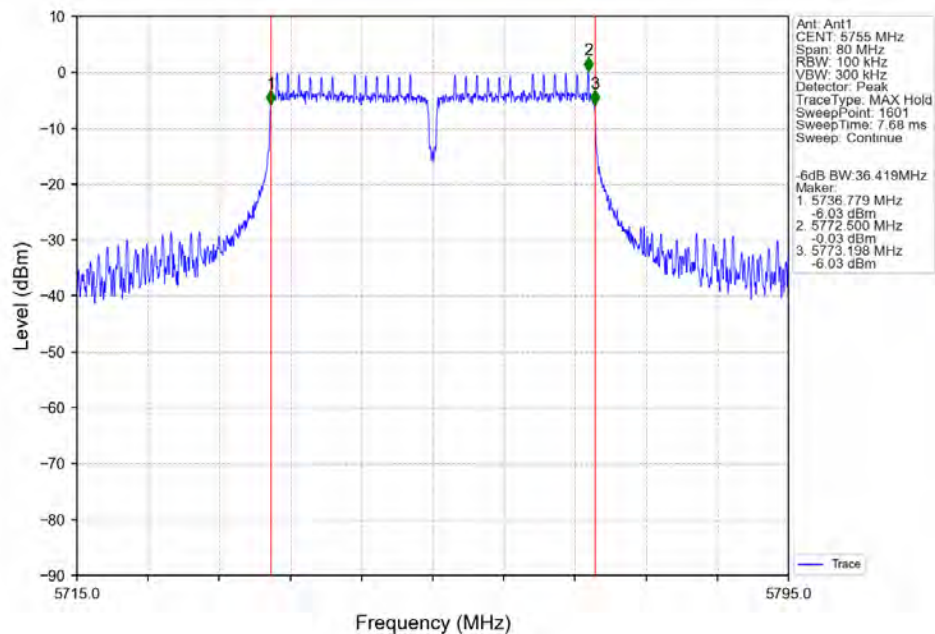
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



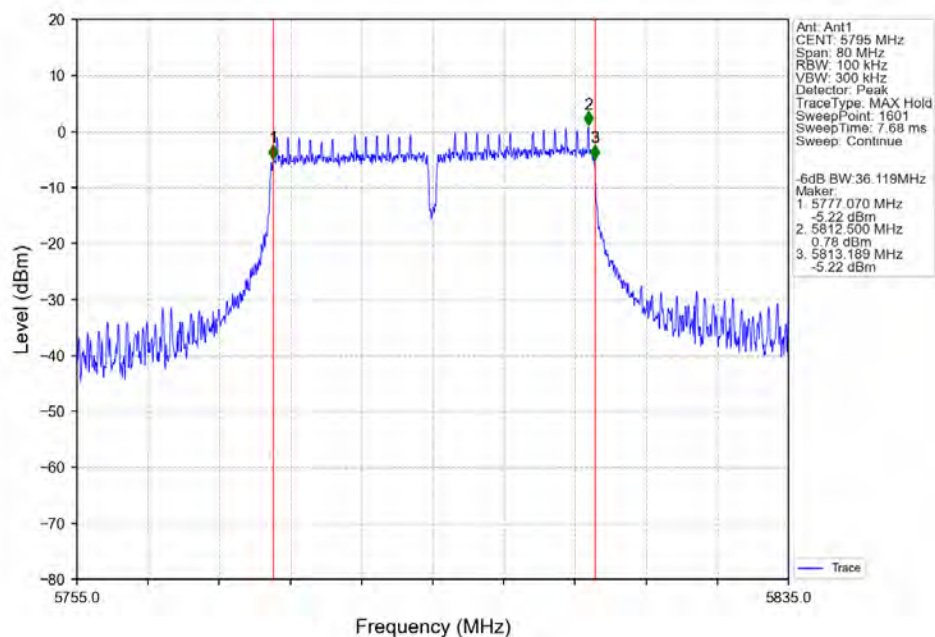
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



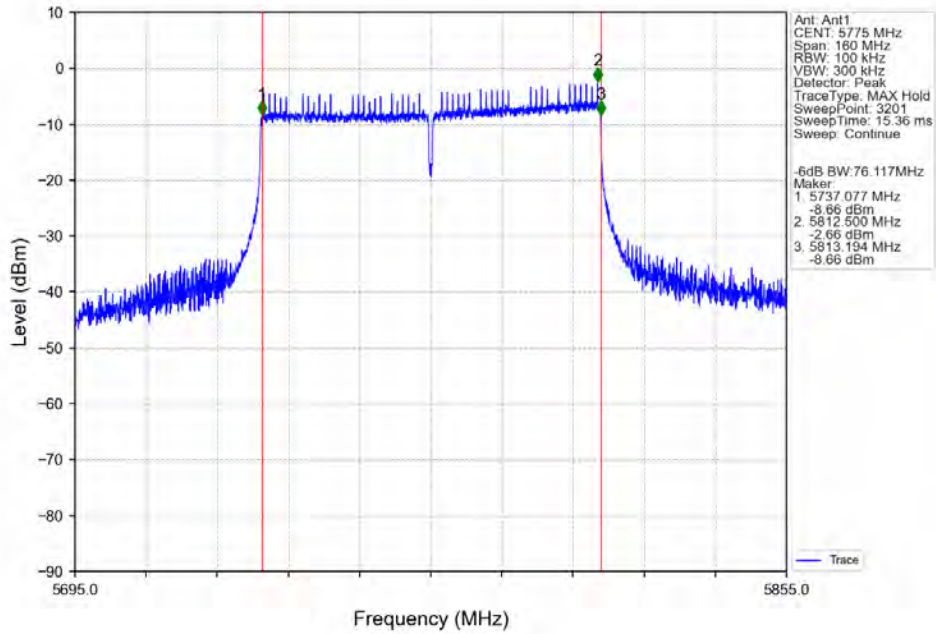
Compliance Certification Services (Kunshan) Inc.

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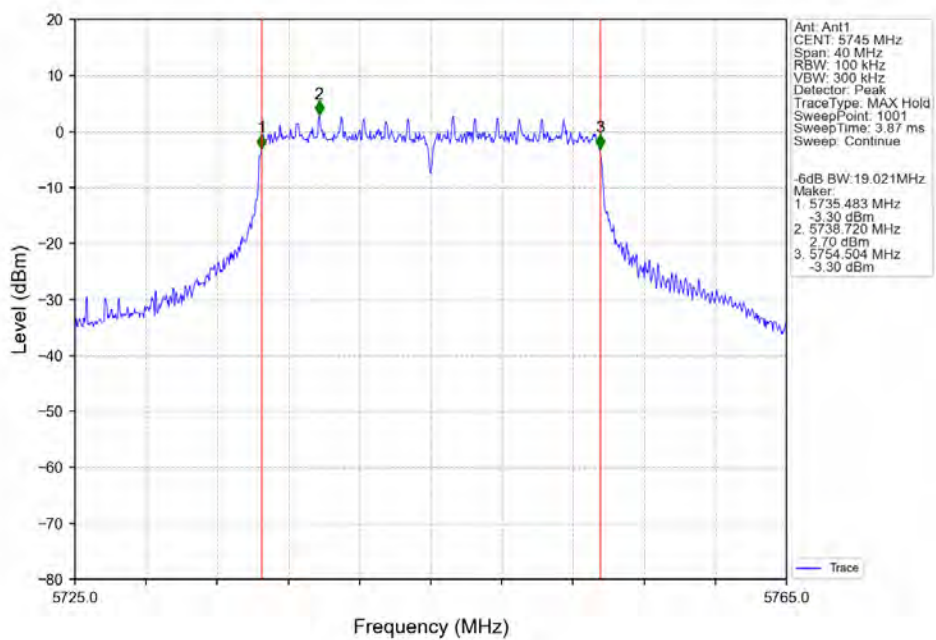
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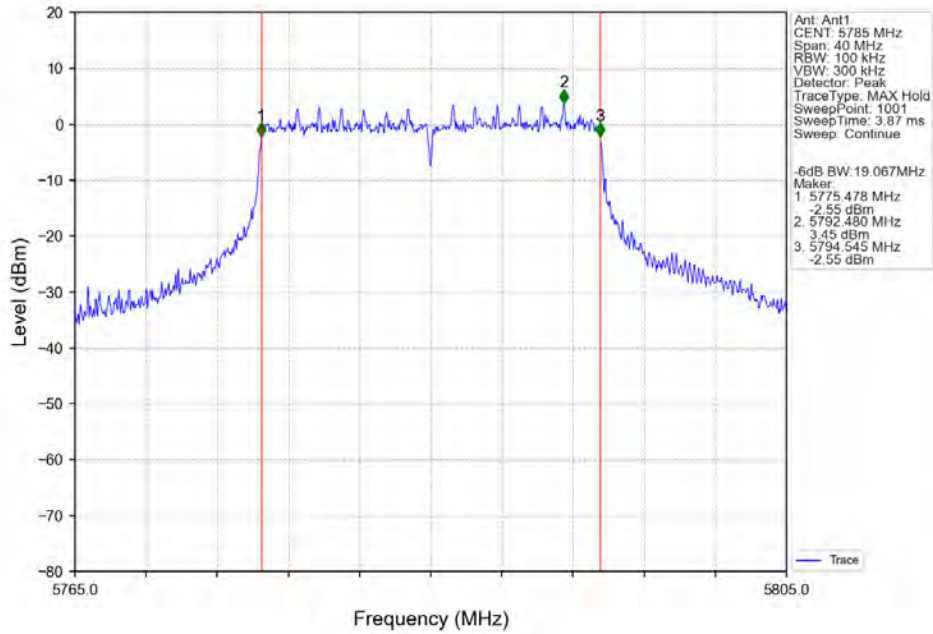
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



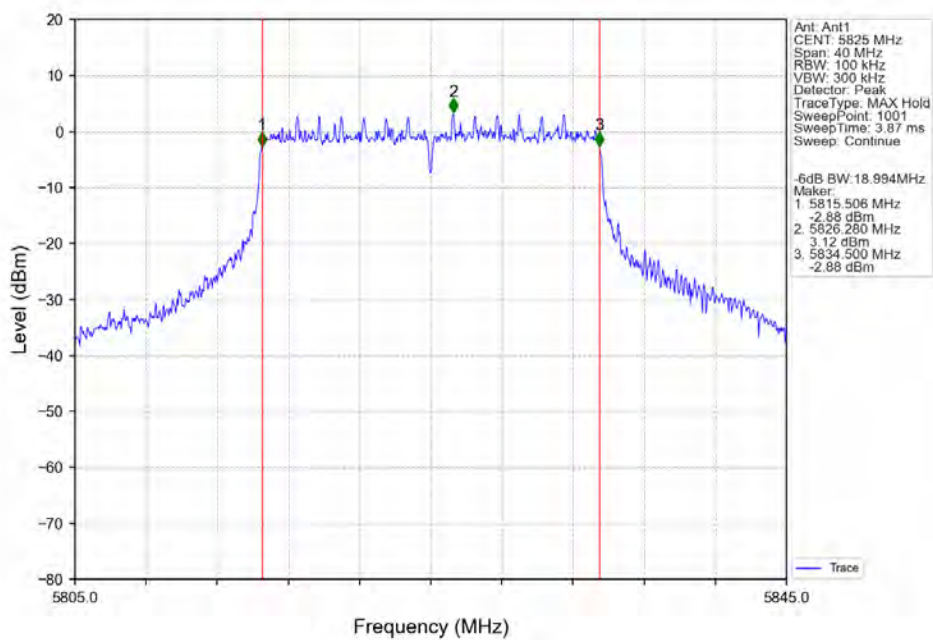
802.11ax(HE20)_LCH_5745MHz_RU242_Left_Ant1_NTNV



802.11ax(HE20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



802.11ax(HE20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



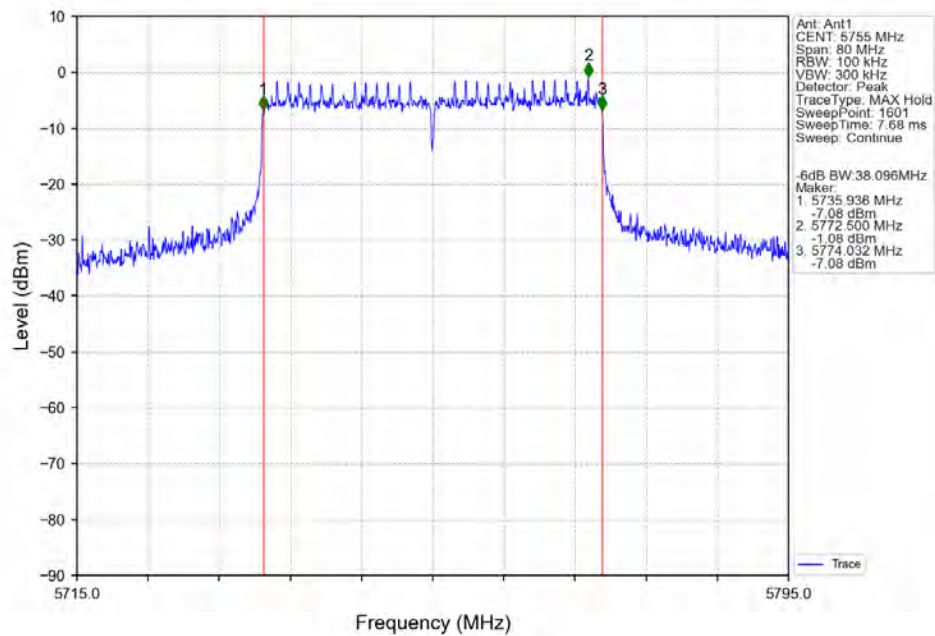
Compliance Certification Services (Kunshan) Inc.

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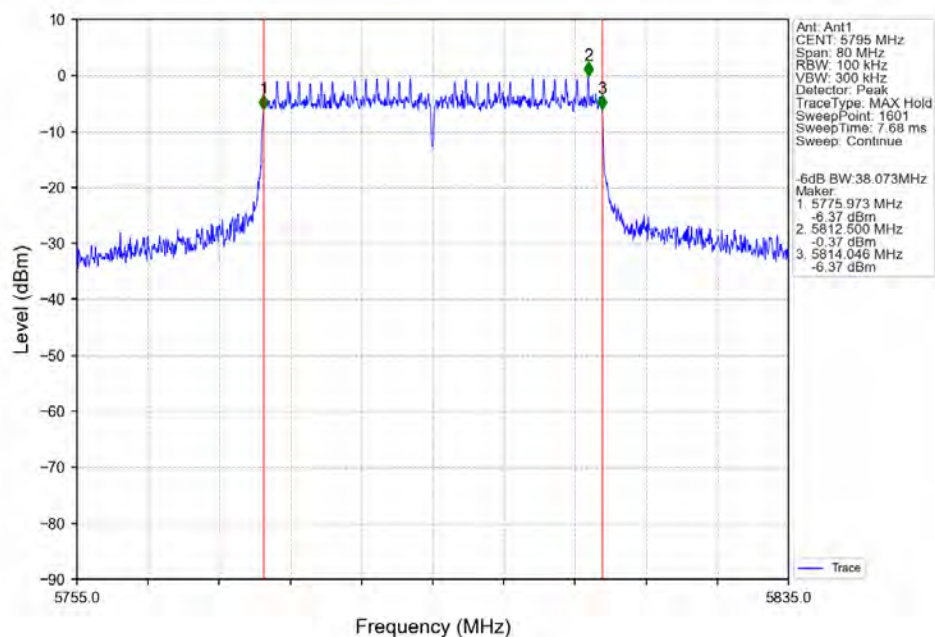
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802.11ax(HE40)_LCH_5755MHz_RU484_Left_Ant1_NTNV



802.11ax(HE40)_HCH_5795MHz_RU484_Left_Ant1_NTNV



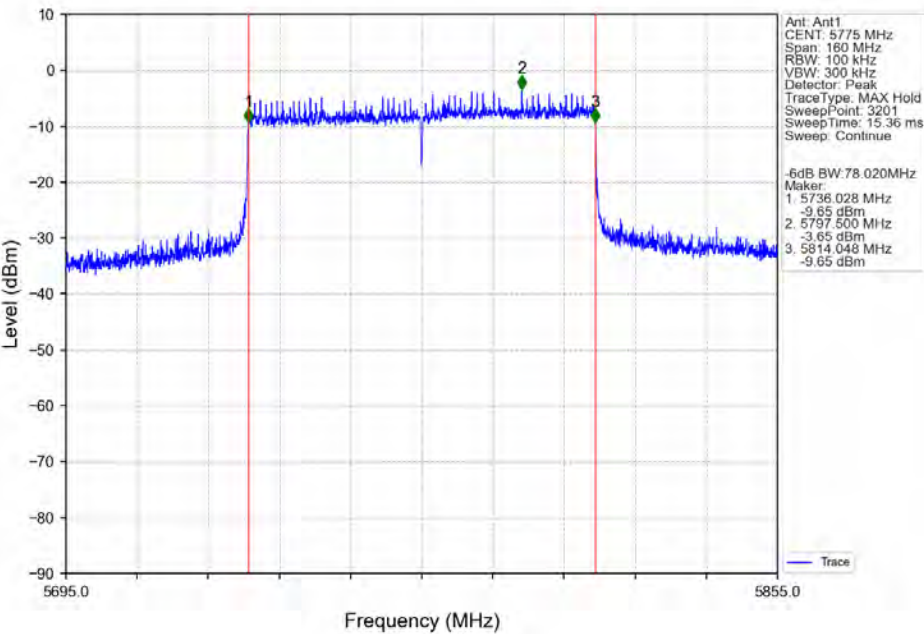
Compliance Certification Services (Kunshan) Inc.

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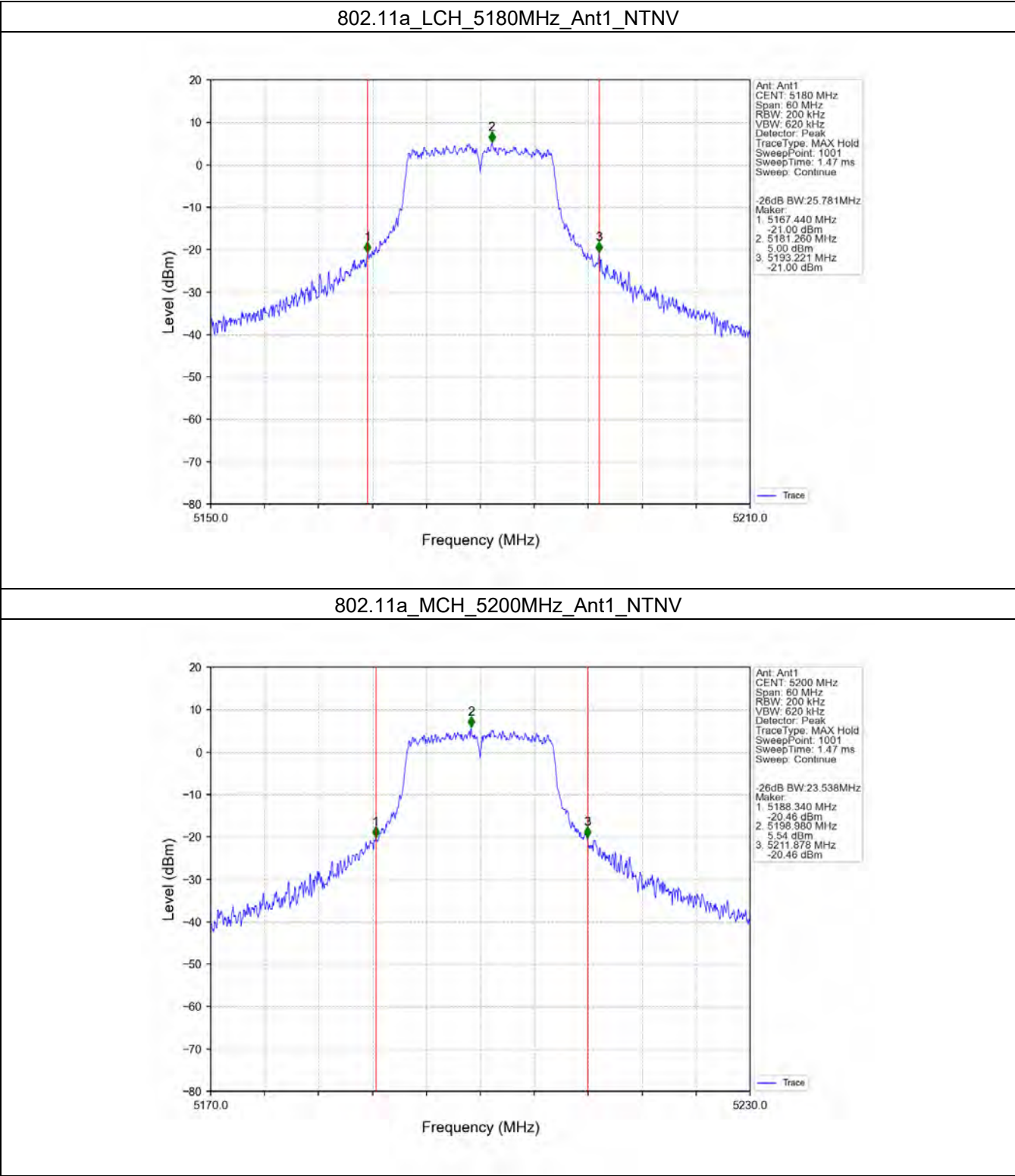
Report No.: KSCR240800162604

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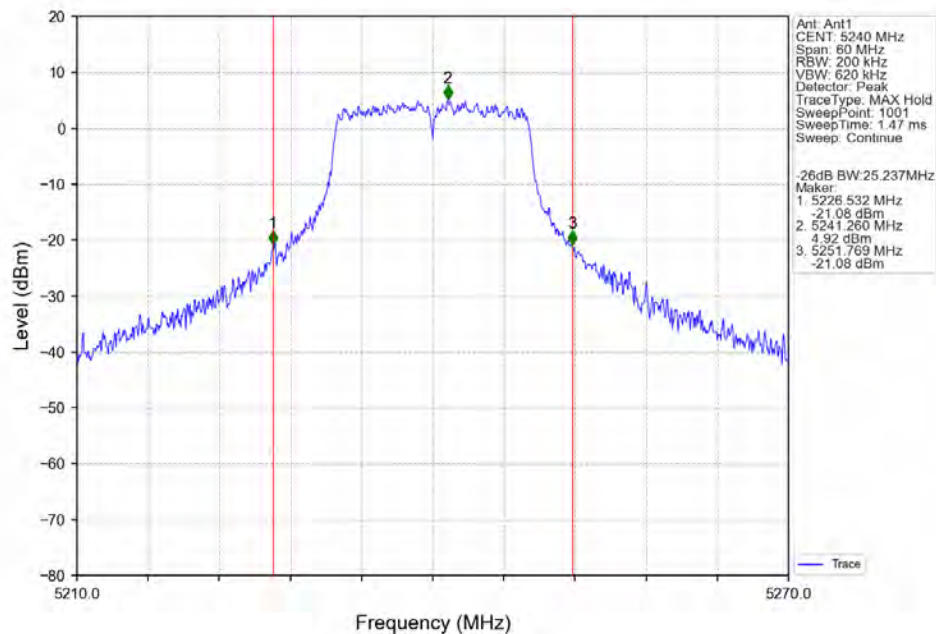
802.11ax(HE80)_MCH_5775MHz_RU996_Left_Ant1_NTNV



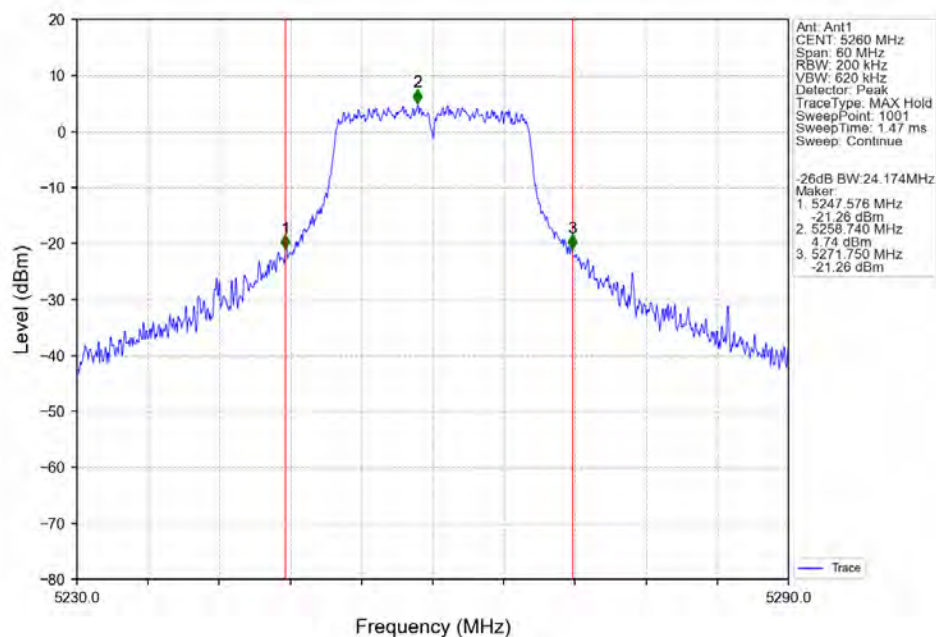
2.2.3 26dB BW



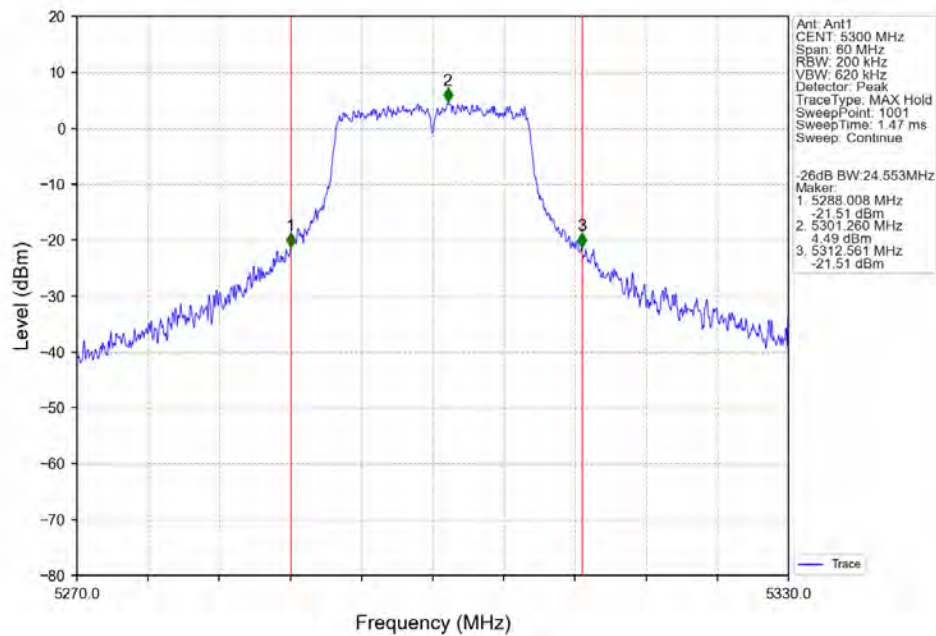
802.11a_HCH_5240MHz_Ant1_NTNV



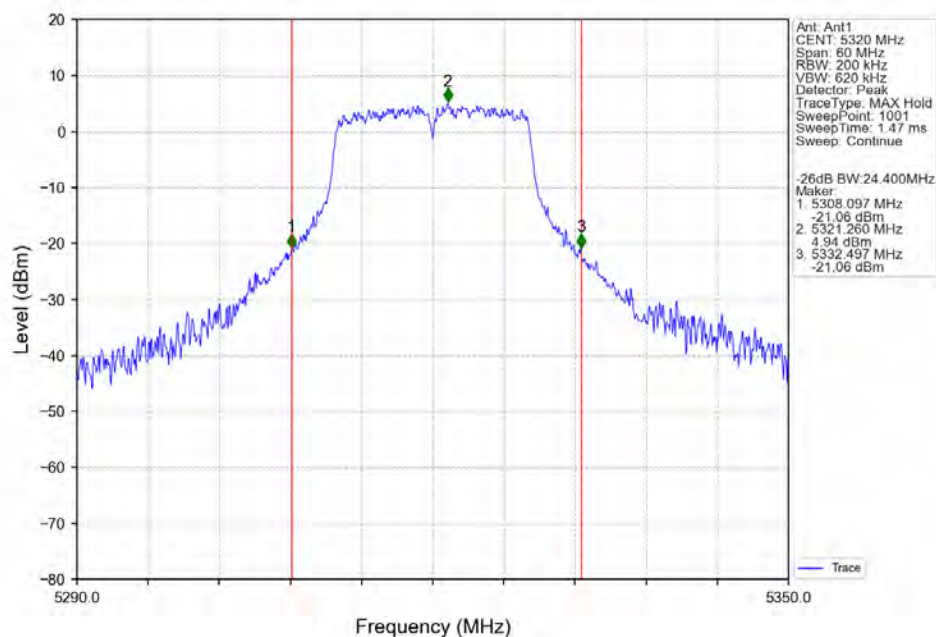
802.11a_LCH_5260MHz_Ant1_NTNV



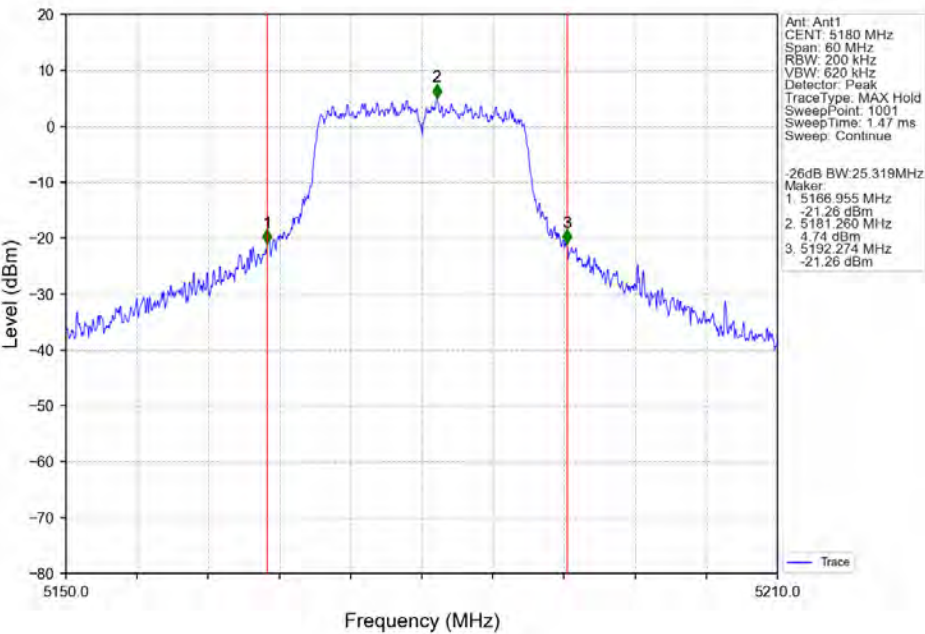
802.11a_MCH_5300MHz_Ant1_NTNV



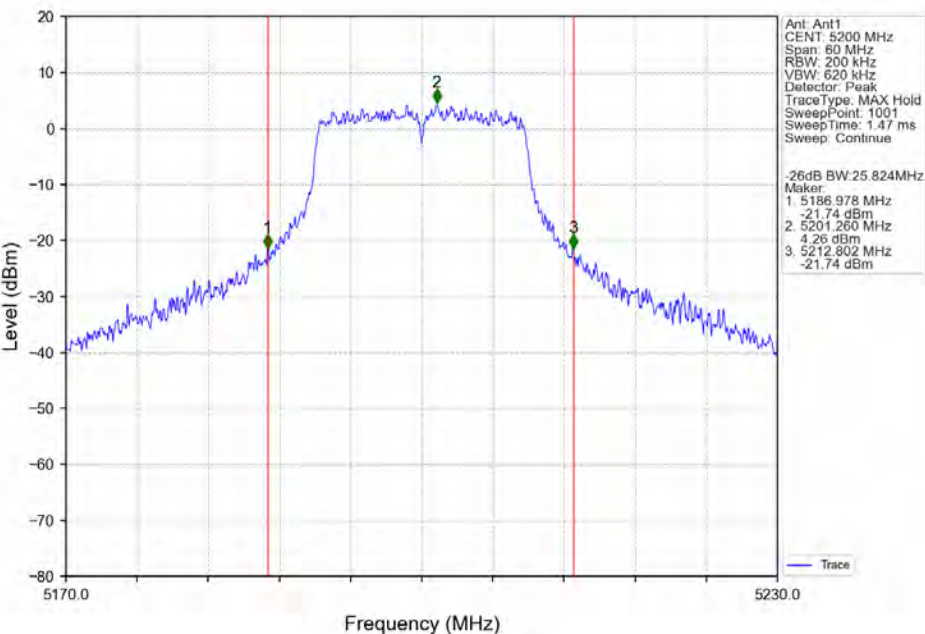
802.11a_HCH_5320MHz_Ant1_NTNV



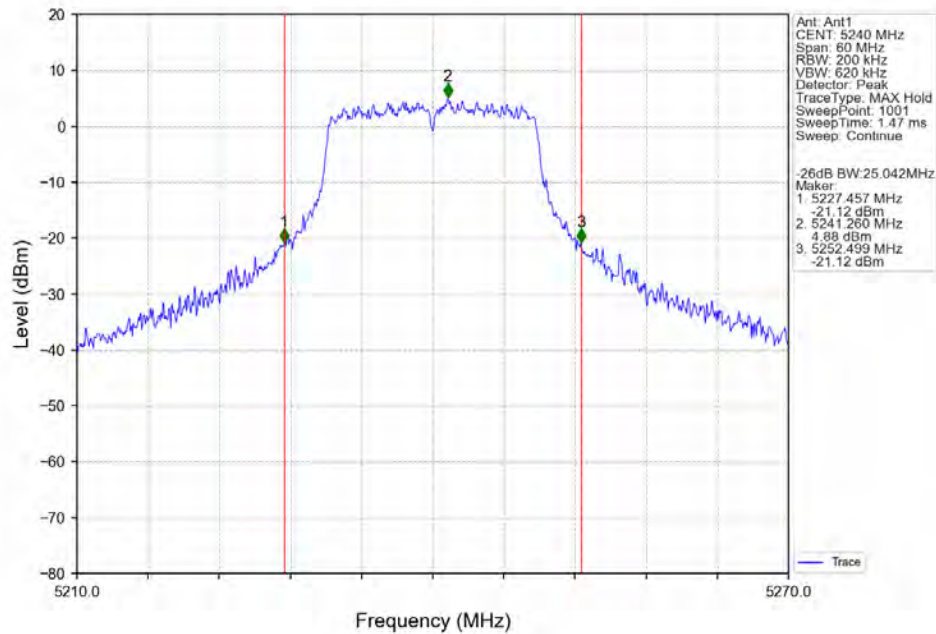
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



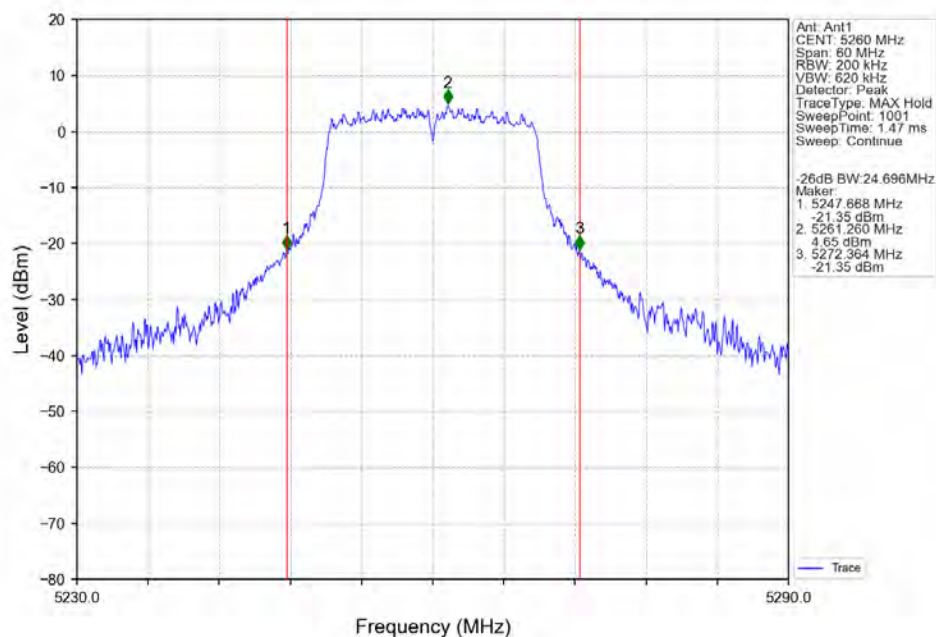
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



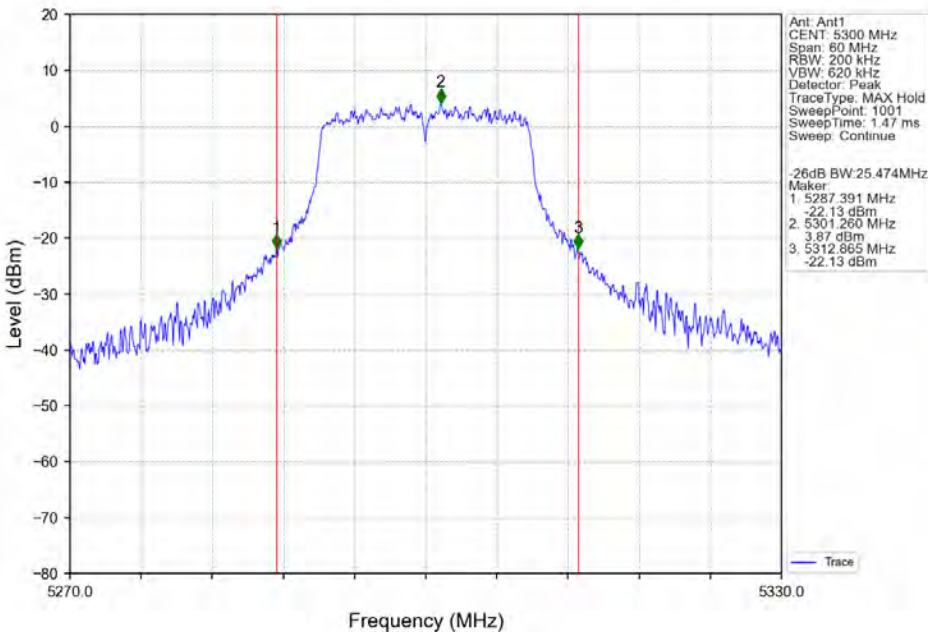
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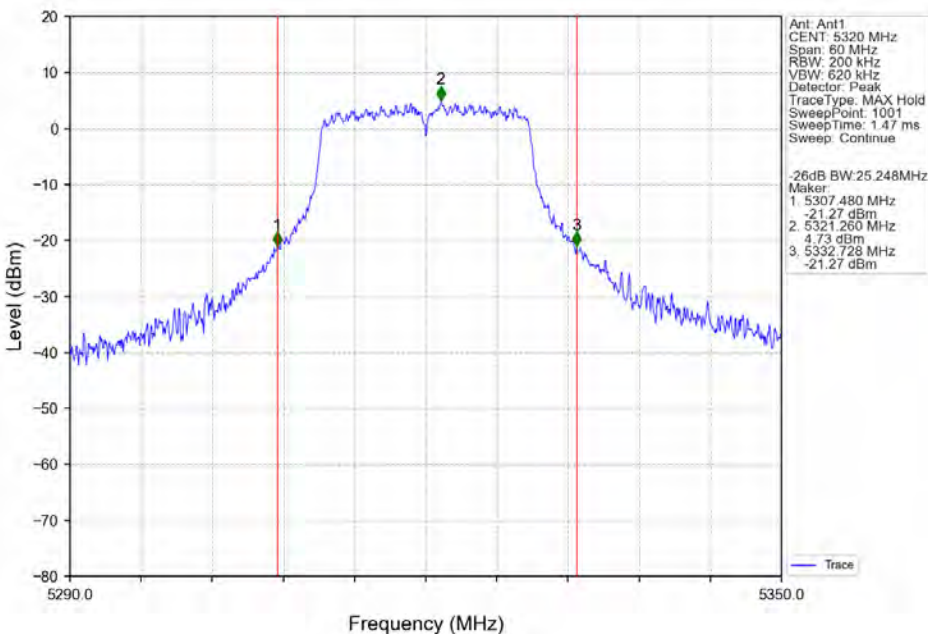
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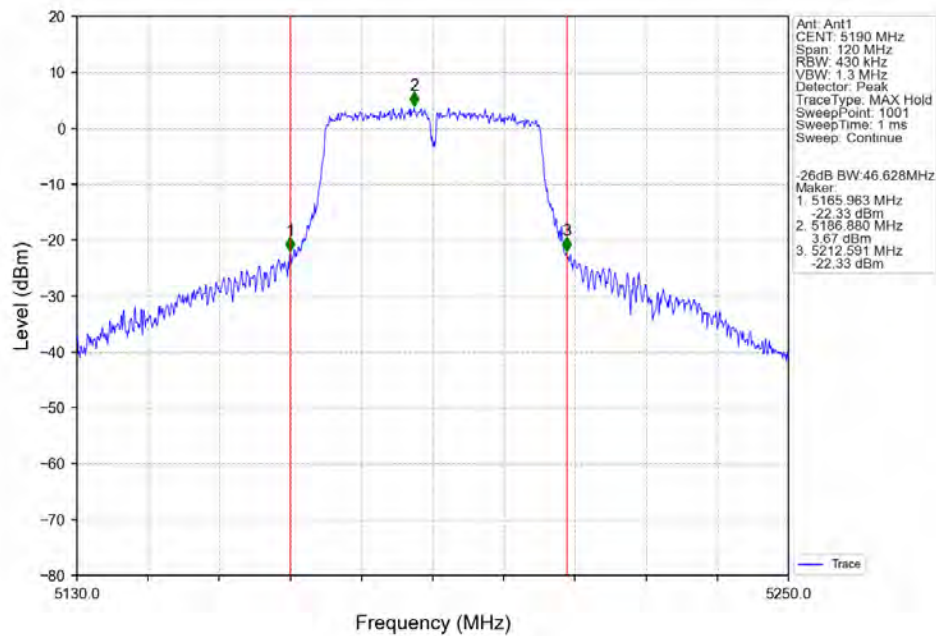
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



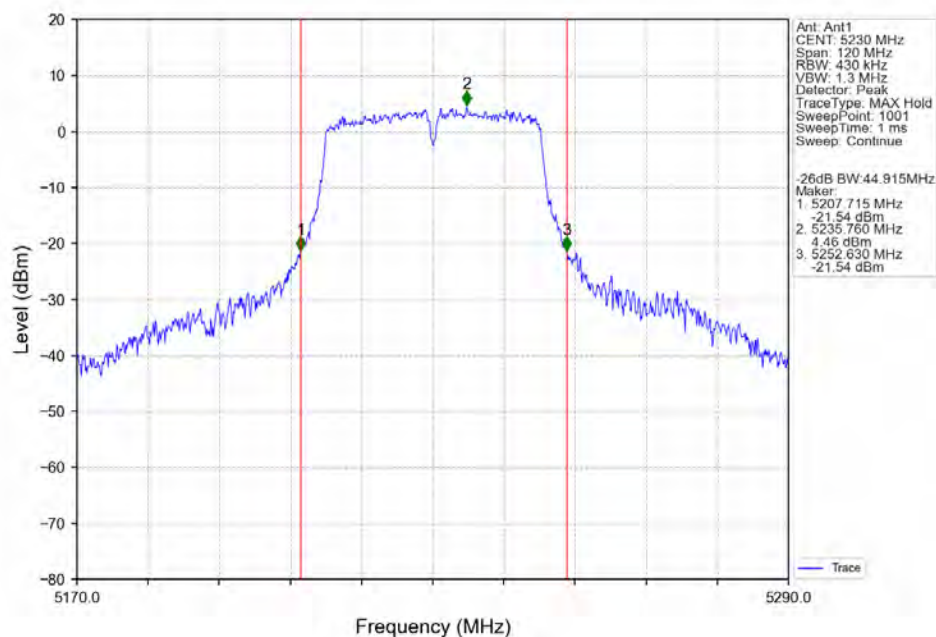
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



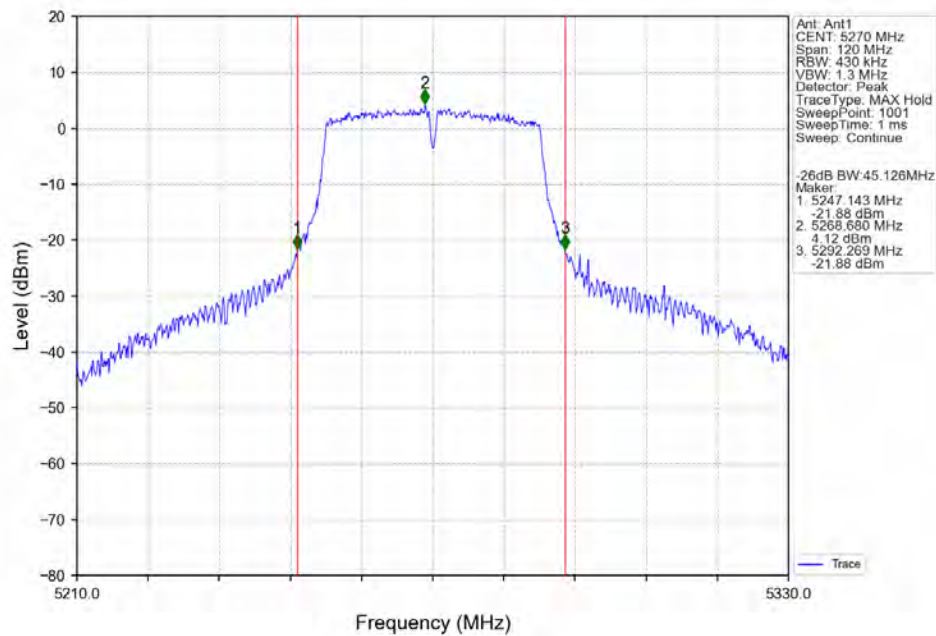
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



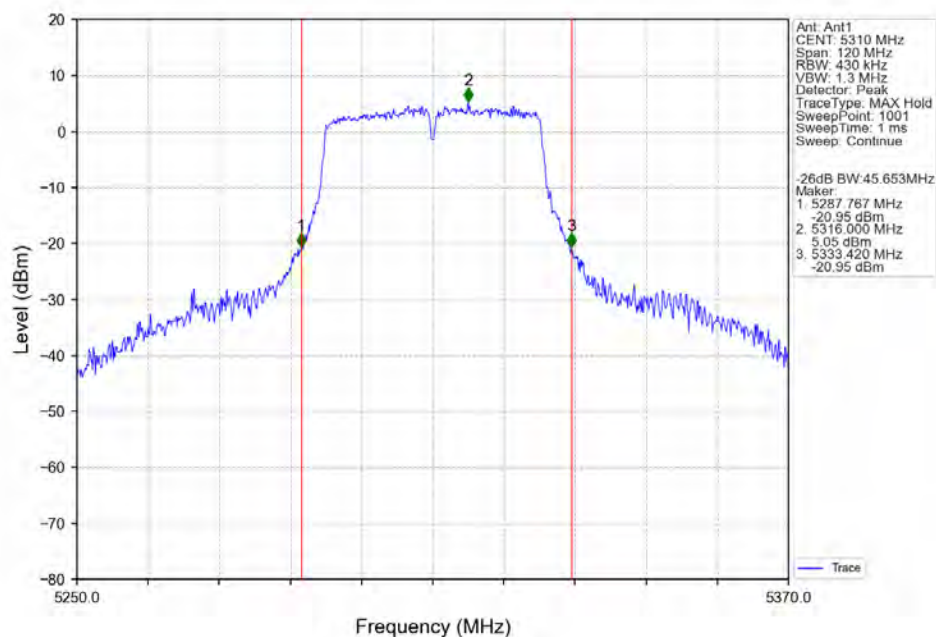
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



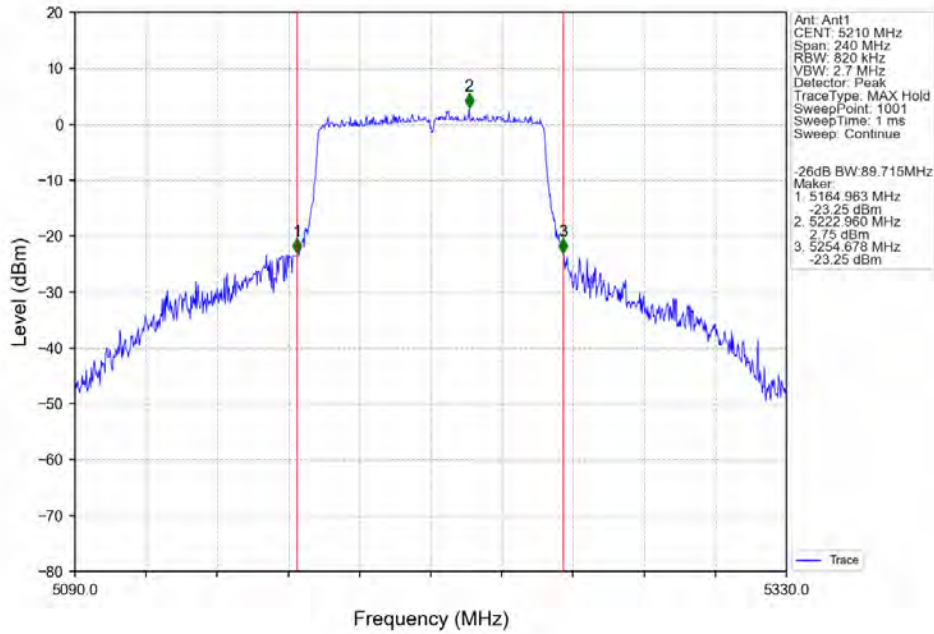
Compliance Certification Services (Kunshan) Inc.

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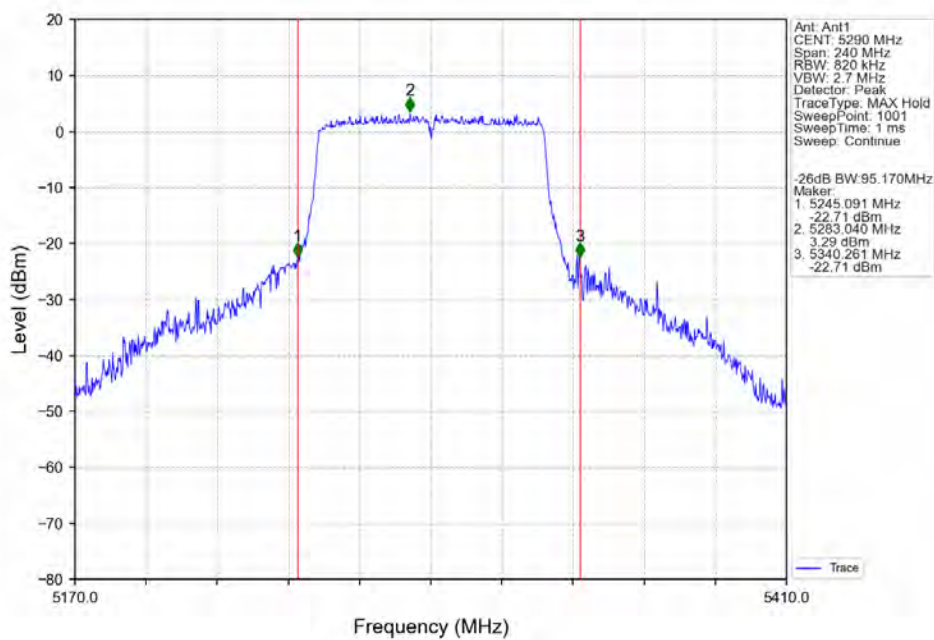
Report No.: KSCR240800162604

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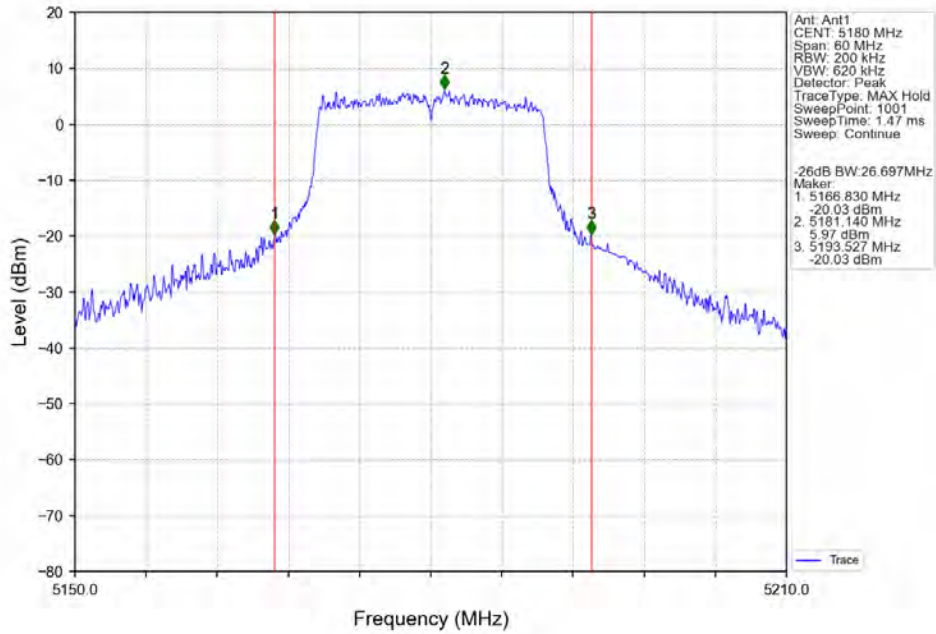
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



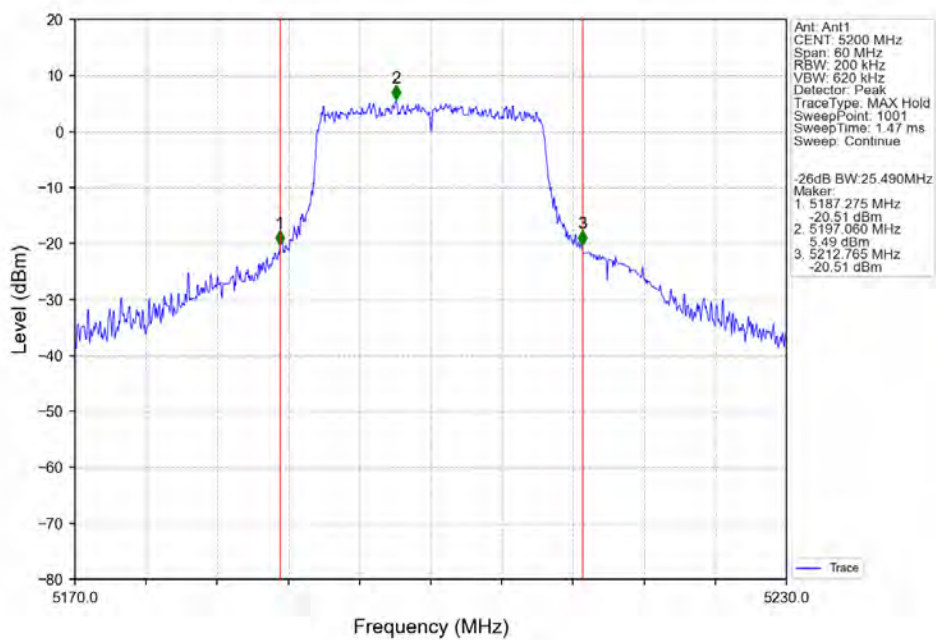
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ax(HE20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



802.11ax(HE20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



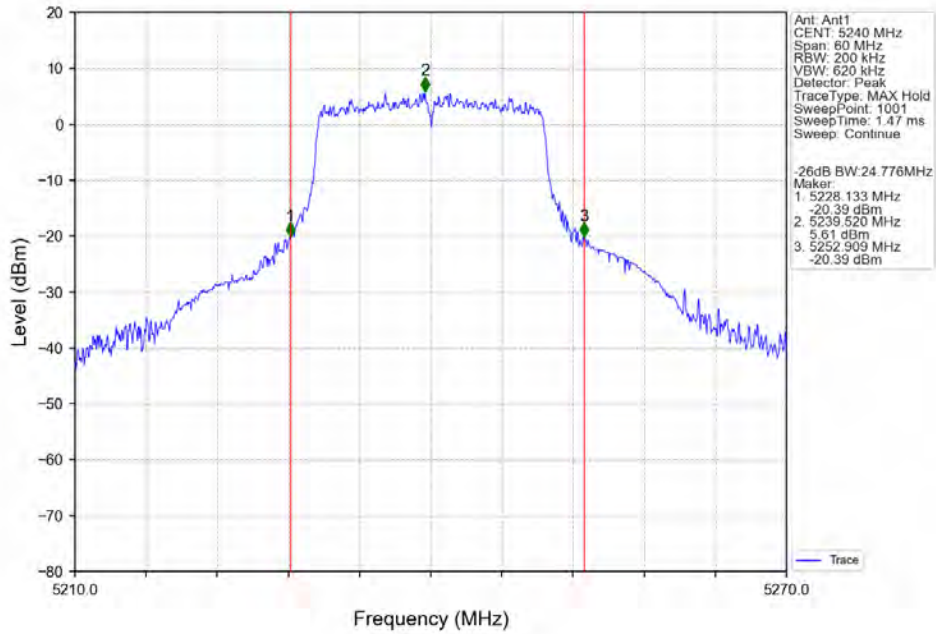
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

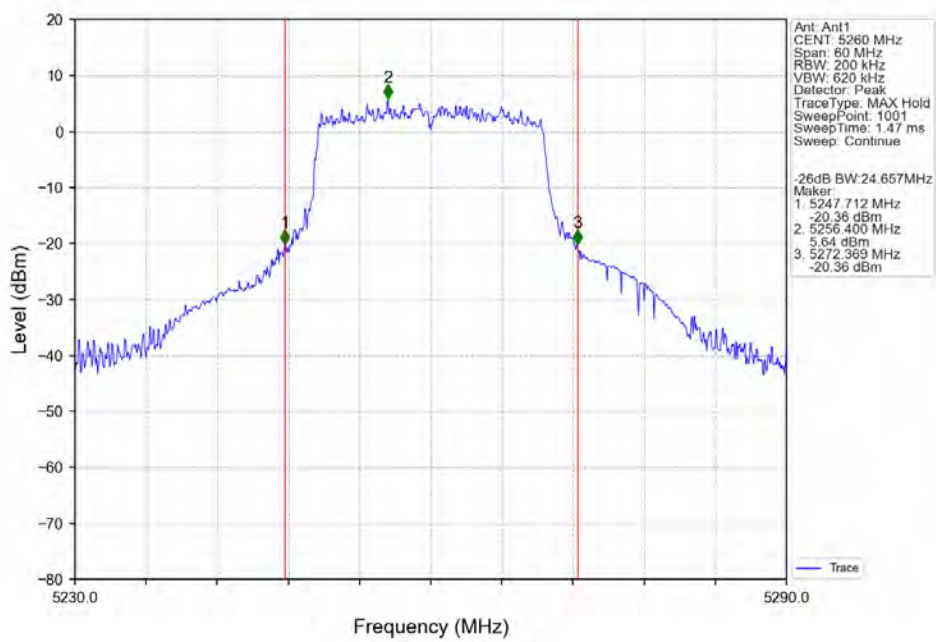
Report No.: KSCR240800162604

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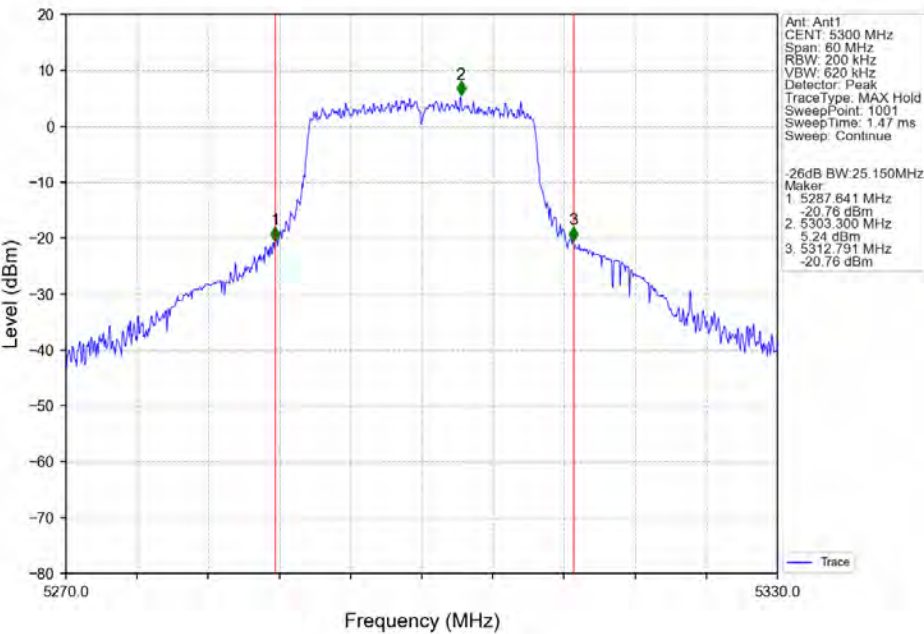
802.11ax(HE20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



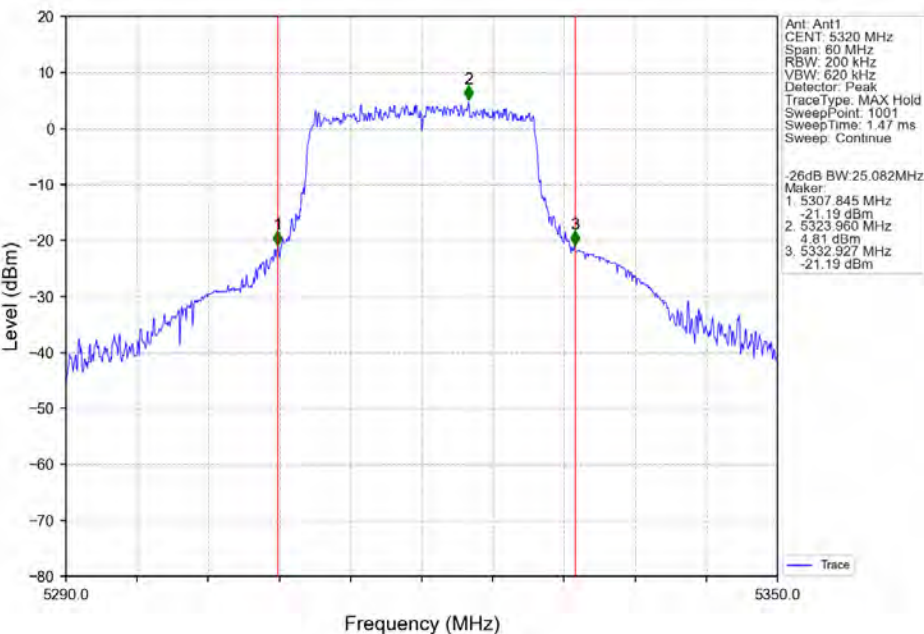
802.11ax(HE20)_LCH_5260MHz_RU242_Left_Ant1_NTNV



802.11ax(HE20)_MCH_5300MHz_RU242_Left_Ant1_NTNV



802.11ax(HE20)_HCH_5320MHz_RU242_Left_Ant1_NTNV



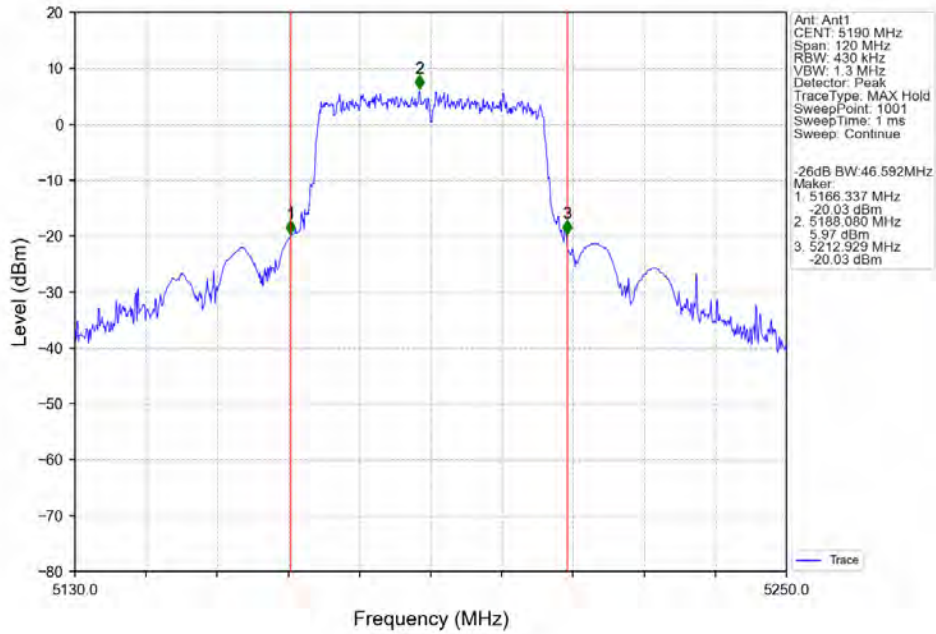
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

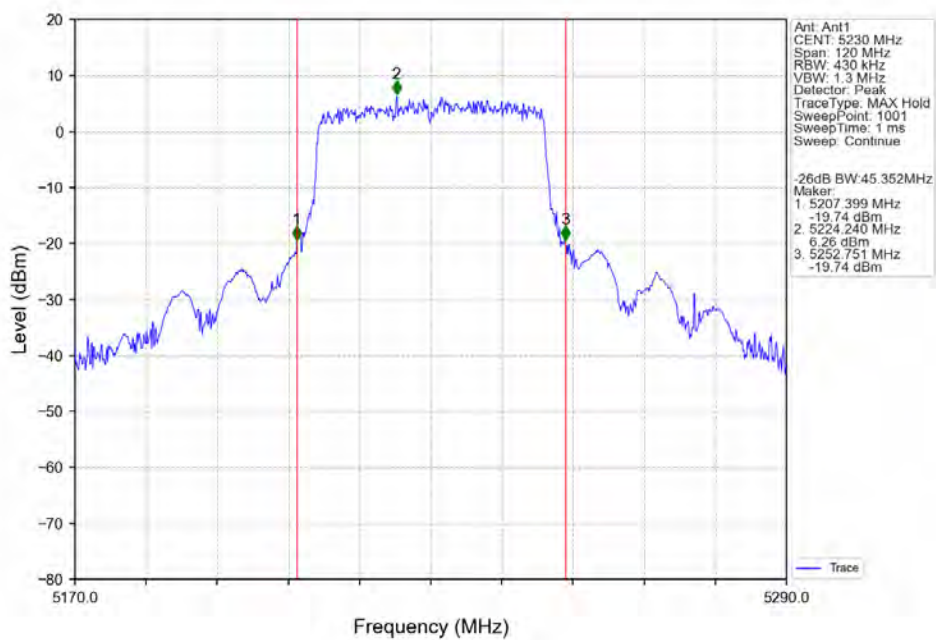
Report No.: KSCR240800162604

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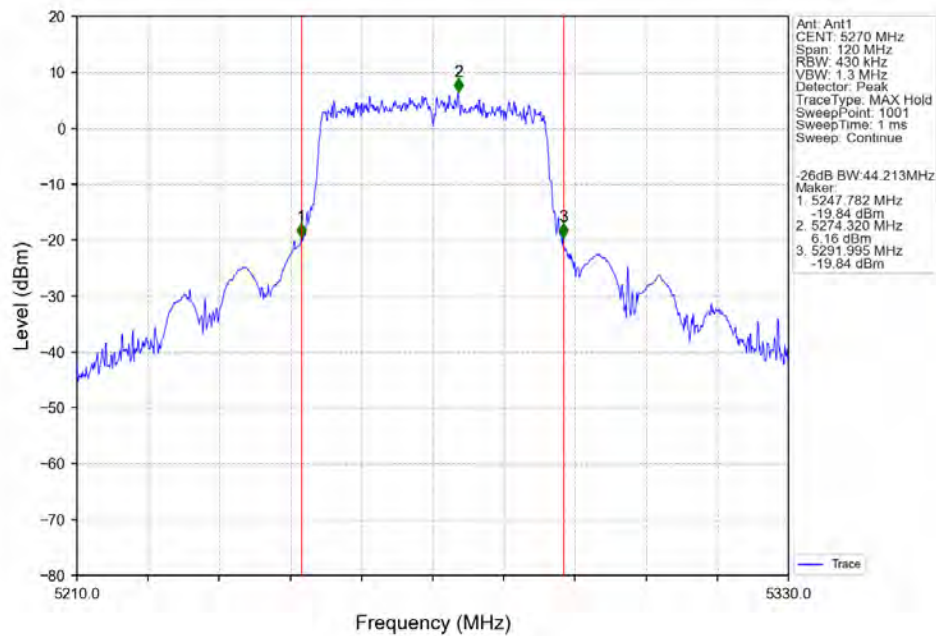
802.11ax(HE40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



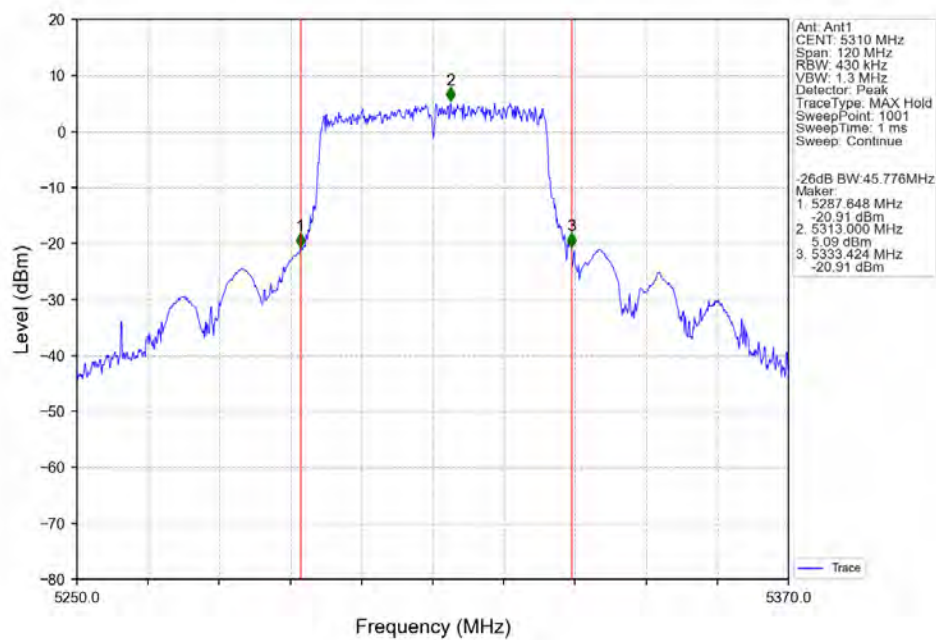
802.11ax(HE40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



802.11ax(HE40)_LCH_5270MHz_RU484_Left_Ant1_NTNV



802.11ax(HE40)_HCH_5310MHz_RU484_Left_Ant1_NTNV



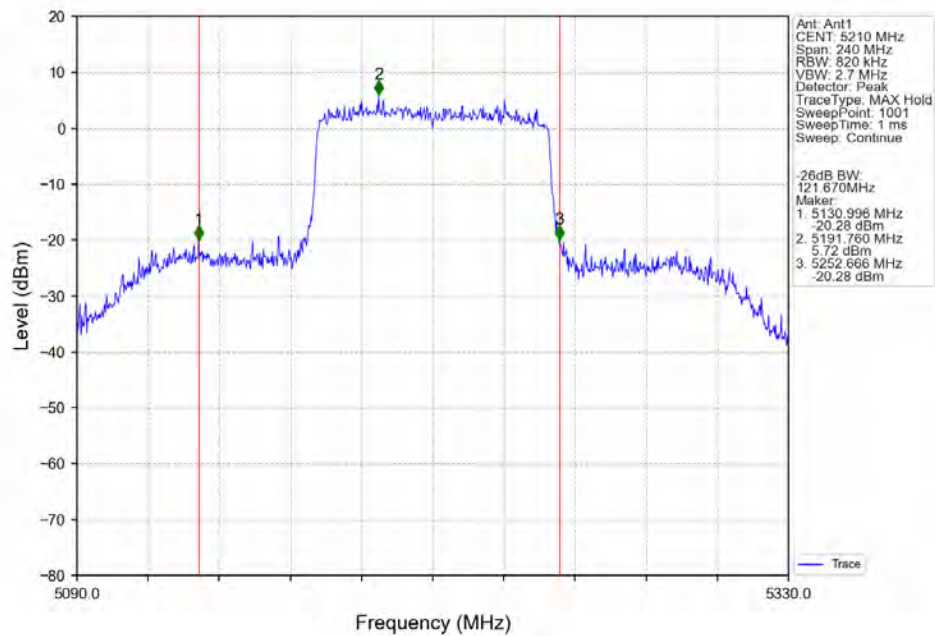
Compliance Certification Services (Kunshan) Inc.

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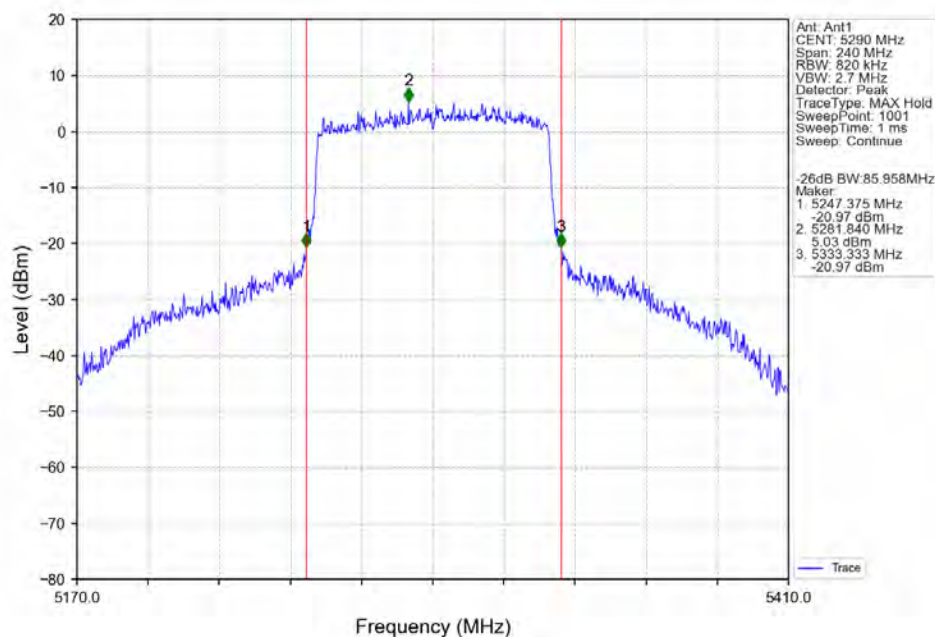
Report No.: KSCR240800162604

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802.11ax(HE80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



802.11ax(HE80)_MCH_5290MHz_RU996_Left_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

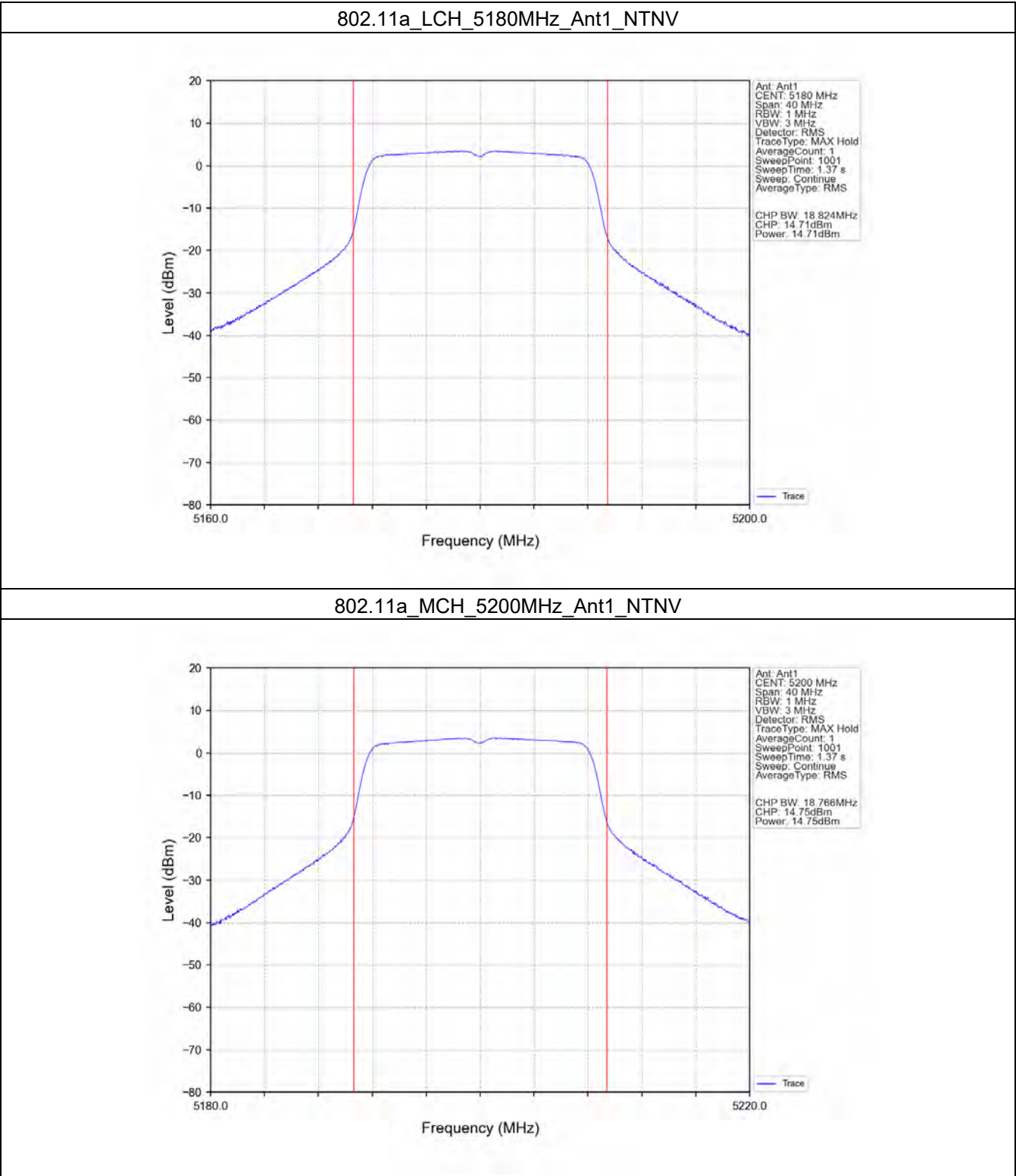
3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11a	SISO	5180	/	/	14.71	<=23.98	Pass
		5200	/	/	14.75	<=23.98	Pass
		5240	/	/	14.56	<=23.98	Pass
		5260	/	/	14.53	<=23.98	Pass
		5300	/	/	14.32	<=23.98	Pass
		5320	/	/	14.84	<=23.98	Pass
		5745	/	/	12.15	<=30	Pass
		5785	/	/	14.09	<=30	Pass
802.11ac (VHT20)	SISO	5825	/	/	14.80	<=30	Pass
		5180	/	/	14.19	<=23.98	Pass
		5200	/	/	13.80	<=23.98	Pass
		5240	/	/	14.66	<=23.98	Pass
		5260	/	/	14.51	<=23.98	Pass
		5300	/	/	13.88	<=23.98	Pass
		5320	/	/	12.85	<=23.98	Pass
		5745	/	/	12.32	<=30	Pass
802.11ac (VHT40)	SISO	5785	/	/	14.10	<=30	Pass
		5825	/	/	14.01	<=30	Pass
		5190	/	/	13.59	<=23.98	Pass
		5230	/	/	14.09	<=23.98	Pass
		5270	/	/	13.67	<=23.98	Pass
		5310	/	/	14.68	<=23.98	Pass
802.11ac (VHT80)	SISO	5755	/	/	13.93	<=30	Pass
		5795	/	/	14.03	<=30	Pass
		5210	/	/	12.43	<=23.98	Pass
802.11ax (HE20)	SISO	5290	/	/	13.34	<=23.98	Pass
		5775	/	/	13.38	<=30	Pass
		5180	RU242	Left	14.71	<=23.98	Pass
		5200	RU242	Left	14.27	<=23.98	Pass
		5240	RU242	Left	14.36	<=23.98	Pass
		5260	RU242	Left	13.88	<=23.98	Pass
		5300	RU242	Left	14.23	<=23.98	Pass
		5320	RU242	Left	13.83	<=23.98	Pass
		5745	RU242	Left	11.38	<=30	Pass

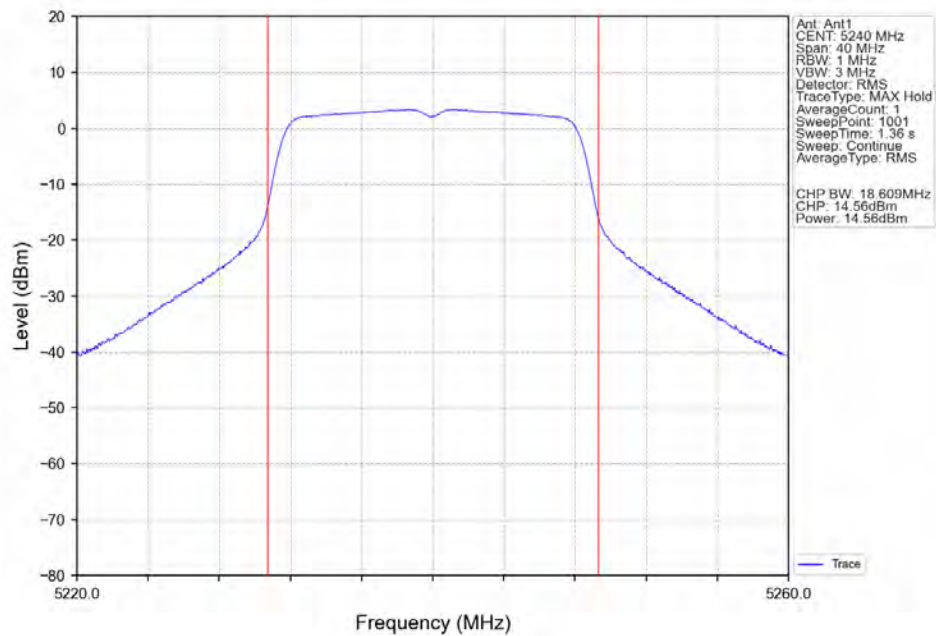
		5785	RU242	Left	14.50	<=30	Pass
		5825	RU242	Left	14.21	<=30	Pass
802.11ax (HE40)	SISO	5190	RU484	Left	13.65	<=23.98	Pass
		5230	RU484	Left	14.16	<=23.98	Pass
		5270	RU484	Left	13.78	<=23.98	Pass
		5310	RU484	Left	13.54	<=23.98	Pass
		5755	RU484	Left	11.34	<=30	Pass
		5795	RU484	Left	12.71	<=30	Pass
802.11ax (HE80)	SISO	5210	RU996	Left	13.24	<=23.98	Pass
		5290	RU996	Left	14.33	<=23.98	Pass
		5775	RU996	Left	12.65	<=30	Pass
Note1: Antenna Gain: Ant1: 3.00dBi;							

3.2 Test Graph

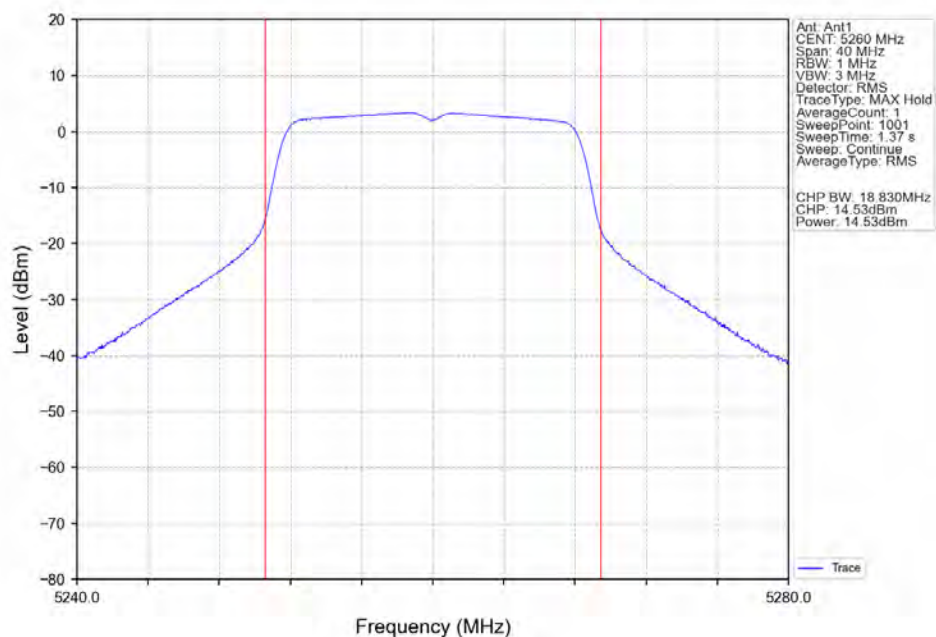
3.2.1 Power



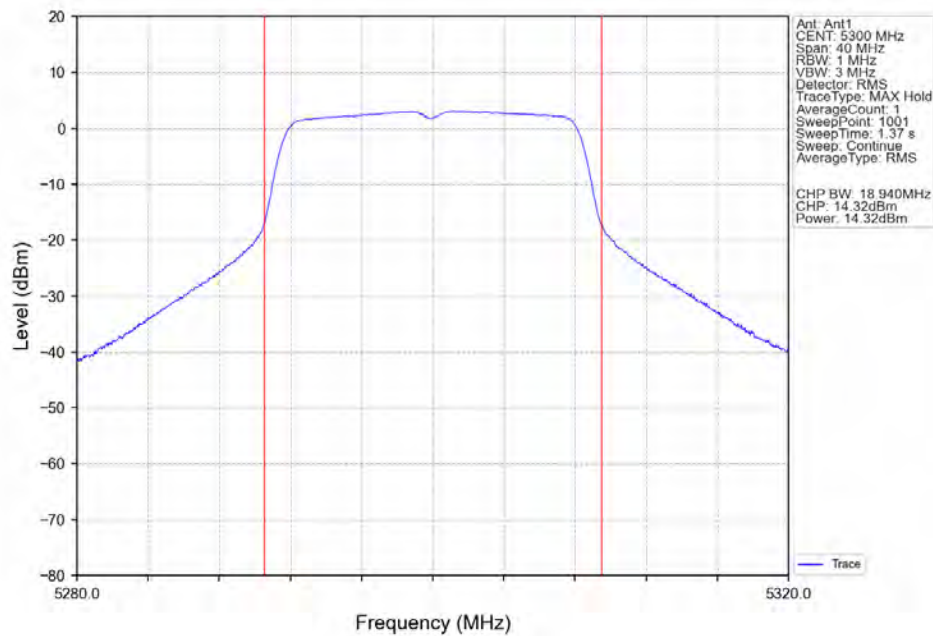
802.11a_HCH_5240MHz_Ant1_NTNV



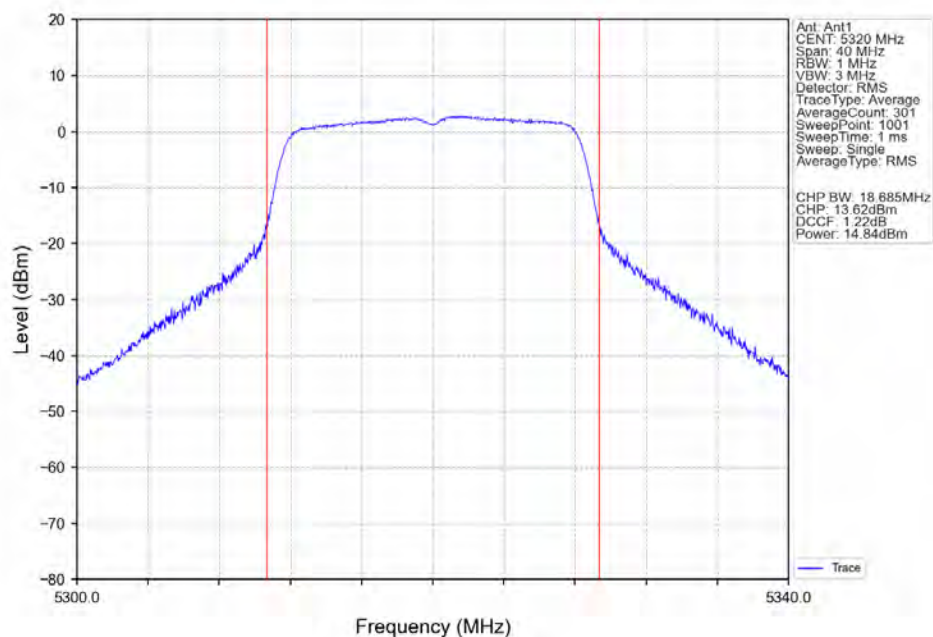
802.11a_LCH_5260MHz_Ant1_NTNV



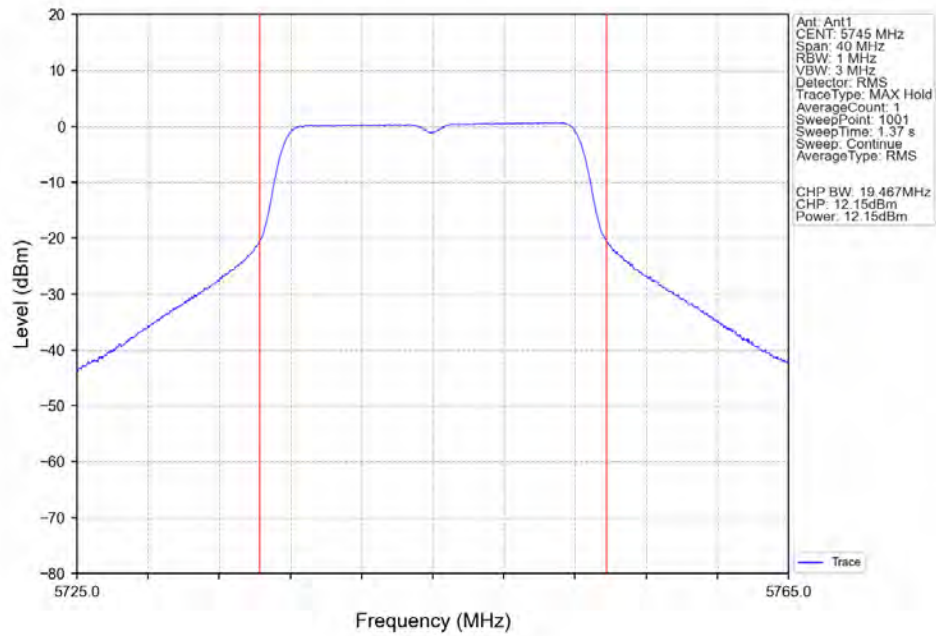
802.11a_MCH_5300MHz_Ant1_NTNV



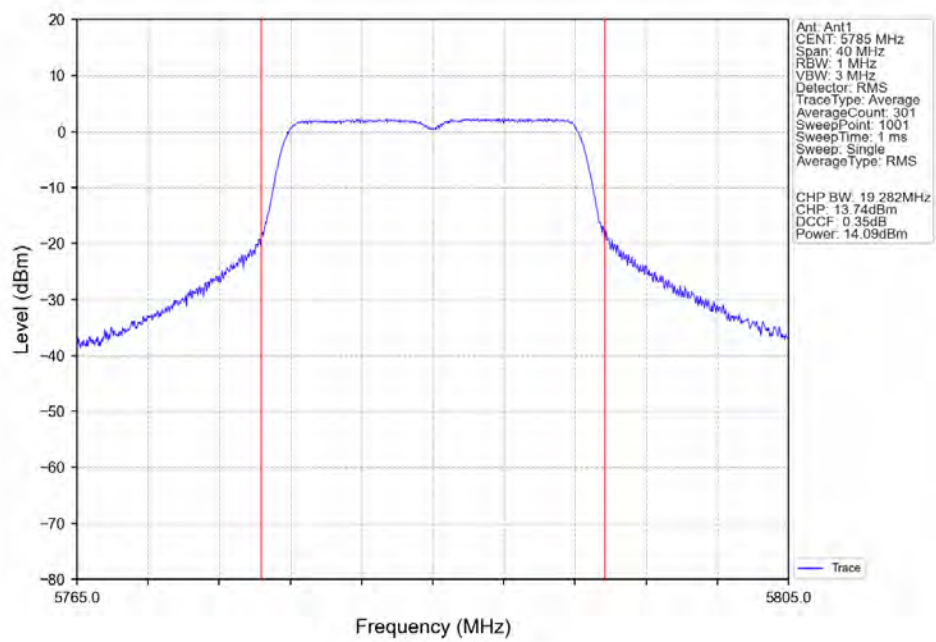
802.11a_HCH_5320MHz_Ant1_NTNV



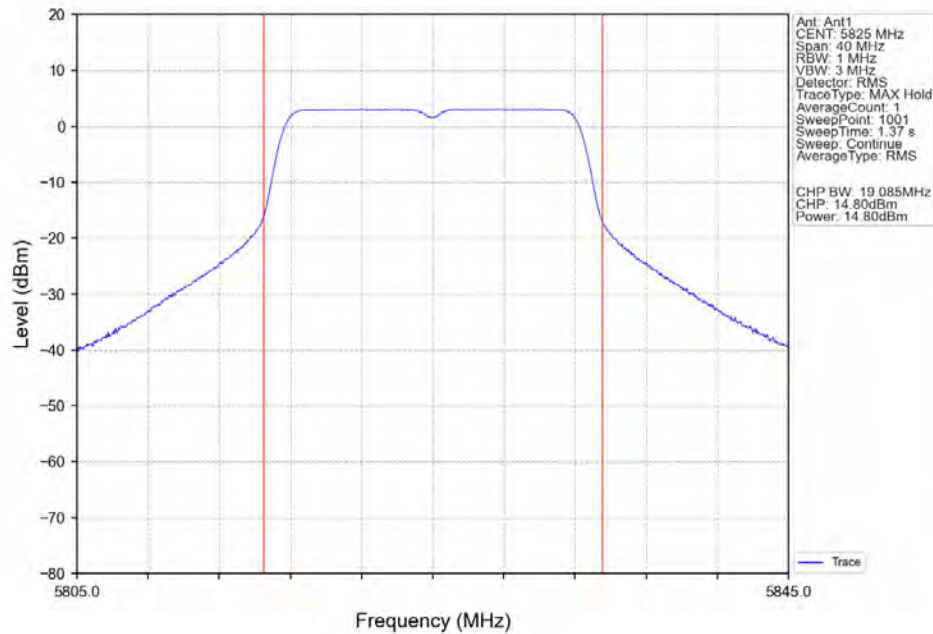
802.11a_LCH_5745MHz_Ant1_NTNV



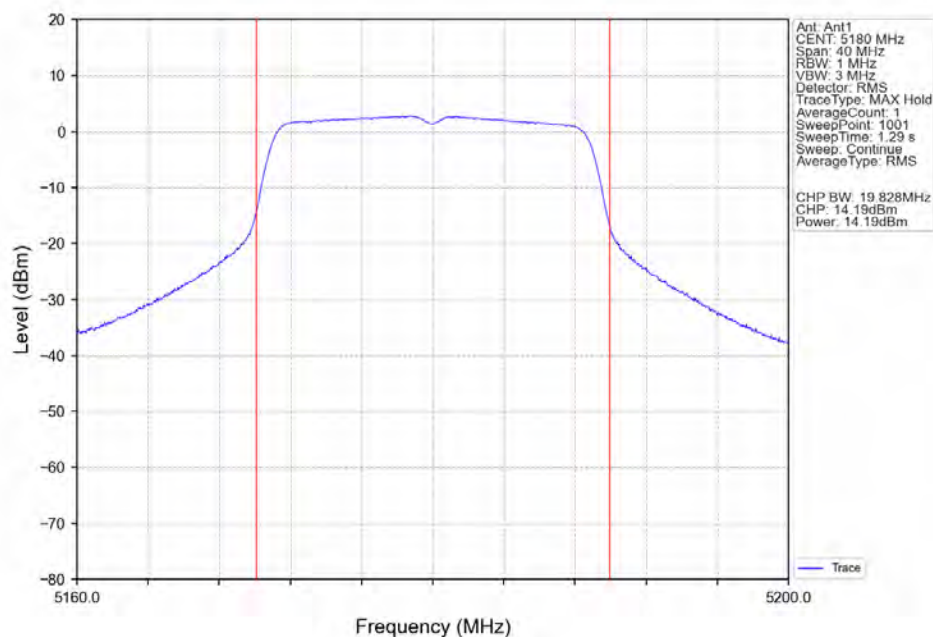
802.11a_MCH_5785MHz_Ant1_NTNV



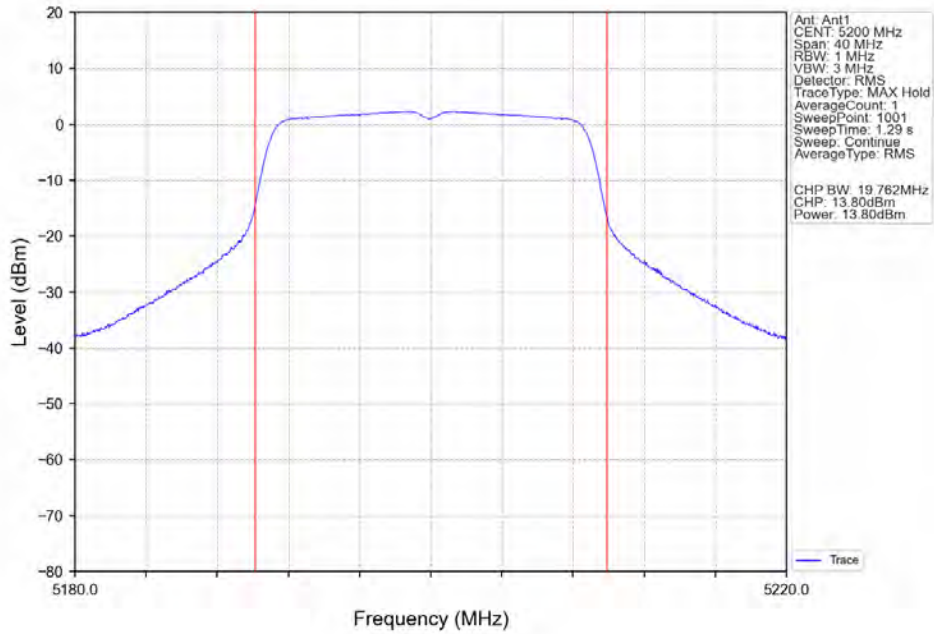
802.11a_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

