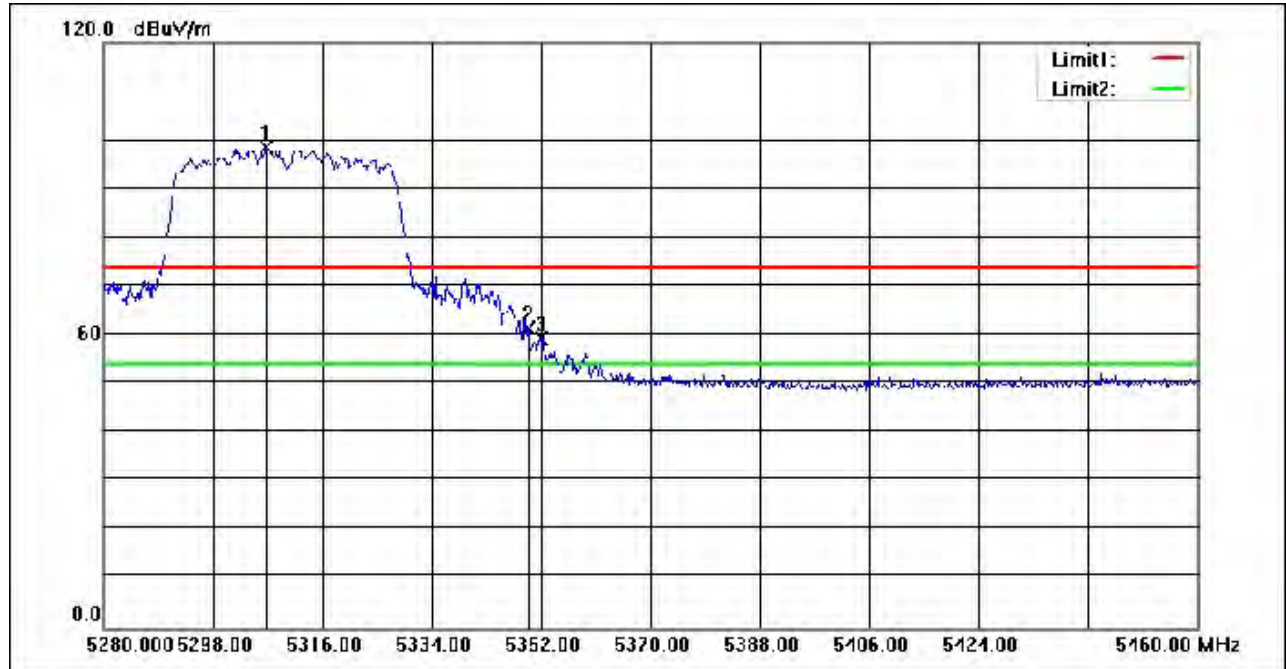


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Report No.: KSCR221000189402

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5306.820	108.60	-10.14	98.46	74.00	24.46	peak
2	5350.000	71.23	-9.94	61.29	74.00	-12.71	peak
3	5352.180	69.08	-9.93	59.15	74.00	-14.85	peak



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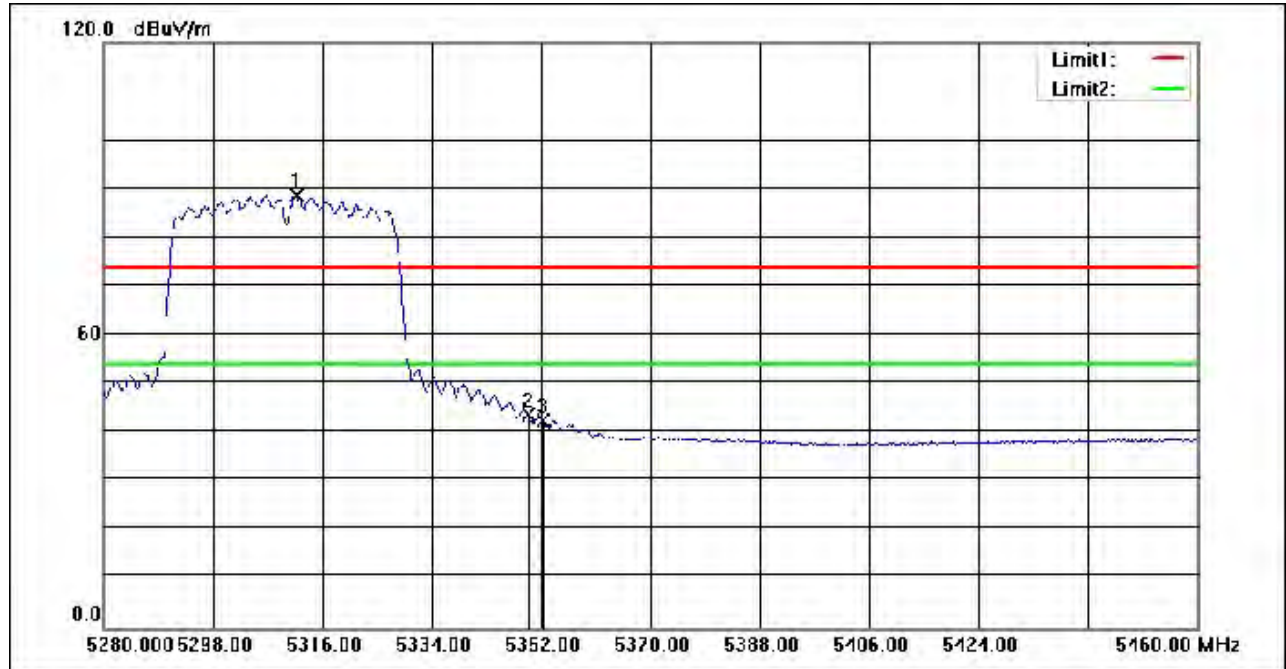
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5311.680	98.86	-10.12	88.74	54.00	34.74	AVG
2	5350.000	53.50	-9.94	43.56	54.00	-10.44	AVG
3	5352.360	52.44	-9.93	42.51	54.00	-11.49	AVG



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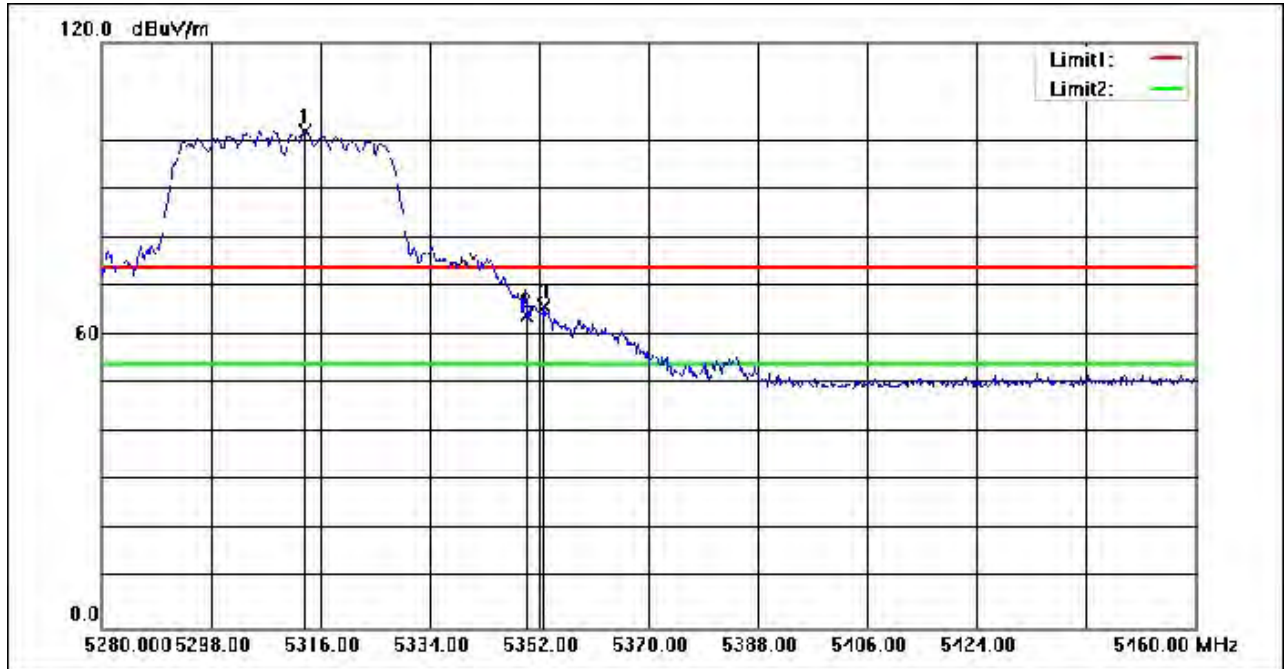
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5313.480	111.86	-10.11	101.75	74.00	27.75	peak
2	5350.000	73.98	-9.94	64.04	74.00	-9.96	peak
3	5352.720	75.76	-9.93	65.83	74.00	-8.17	peak



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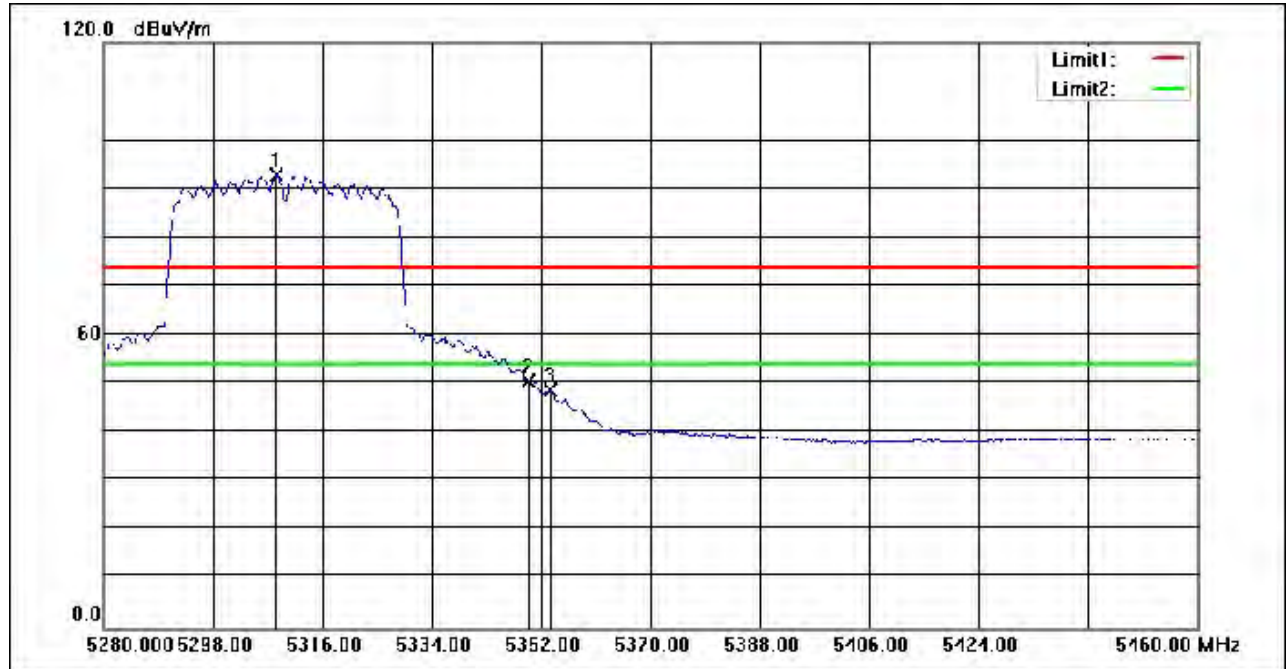
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5308.440	103.02	-10.13	92.89	54.00	38.89	AVG
2	5350.000	60.62	-9.94	50.68	54.00	-3.32	AVG
3	5353.440	58.61	-9.92	48.69	54.00	-5.31	AVG



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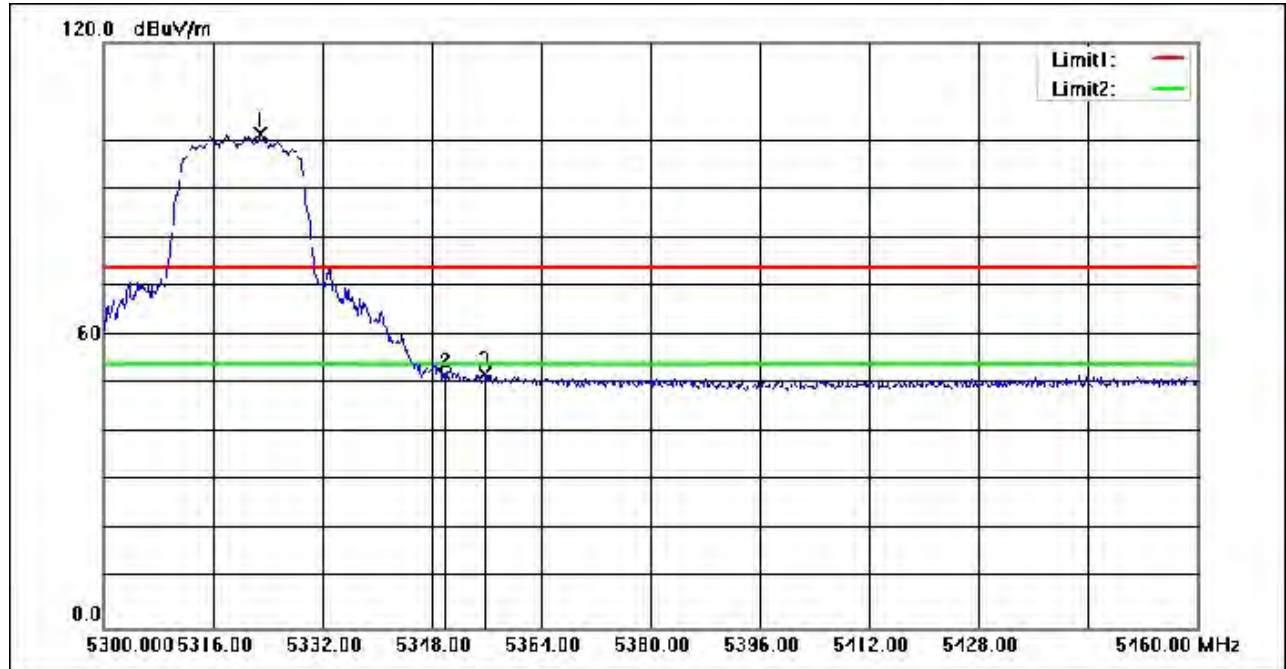
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5322.880	111.35	-10.07	101.28	74.00	27.28	peak
2	5350.000	61.83	-9.94	51.89	74.00	-22.11	peak
3	5355.840	61.99	-9.91	52.08	74.00	-21.92	peak



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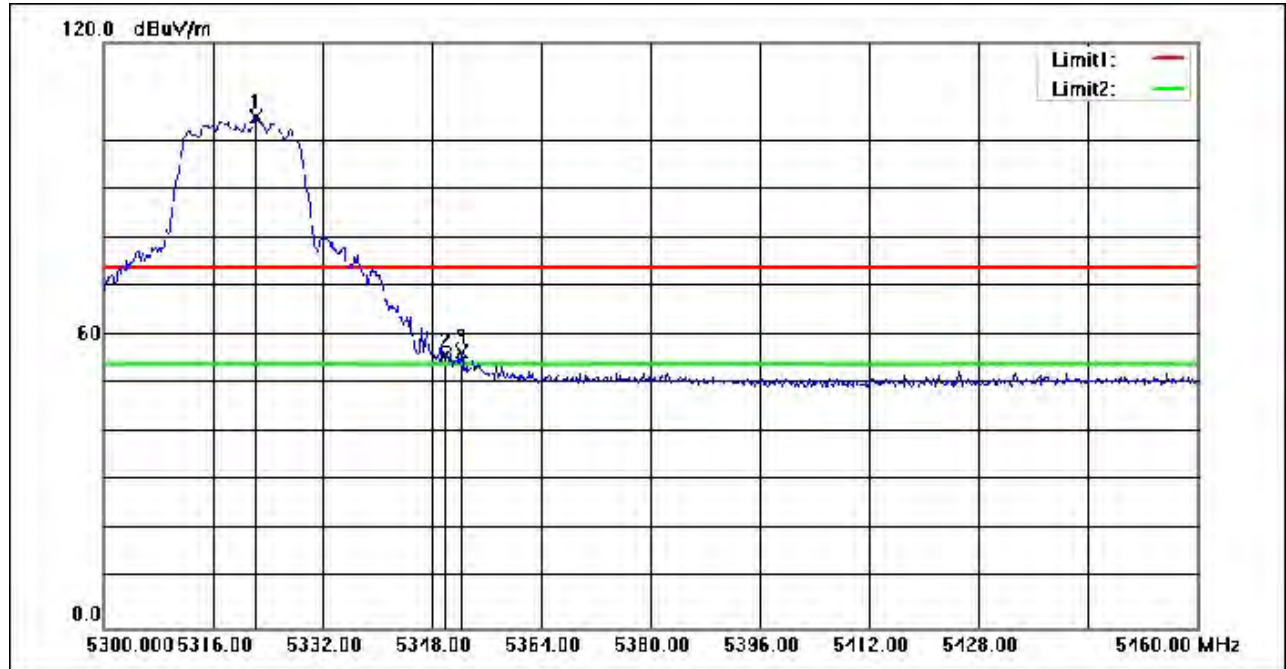
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5322.240	114.93	-10.07	104.86	74.00	30.86	peak
2	5350.000	65.98	-9.94	56.04	74.00	-17.96	peak
3	5352.320	66.48	-9.93	56.55	74.00	-17.45	peak



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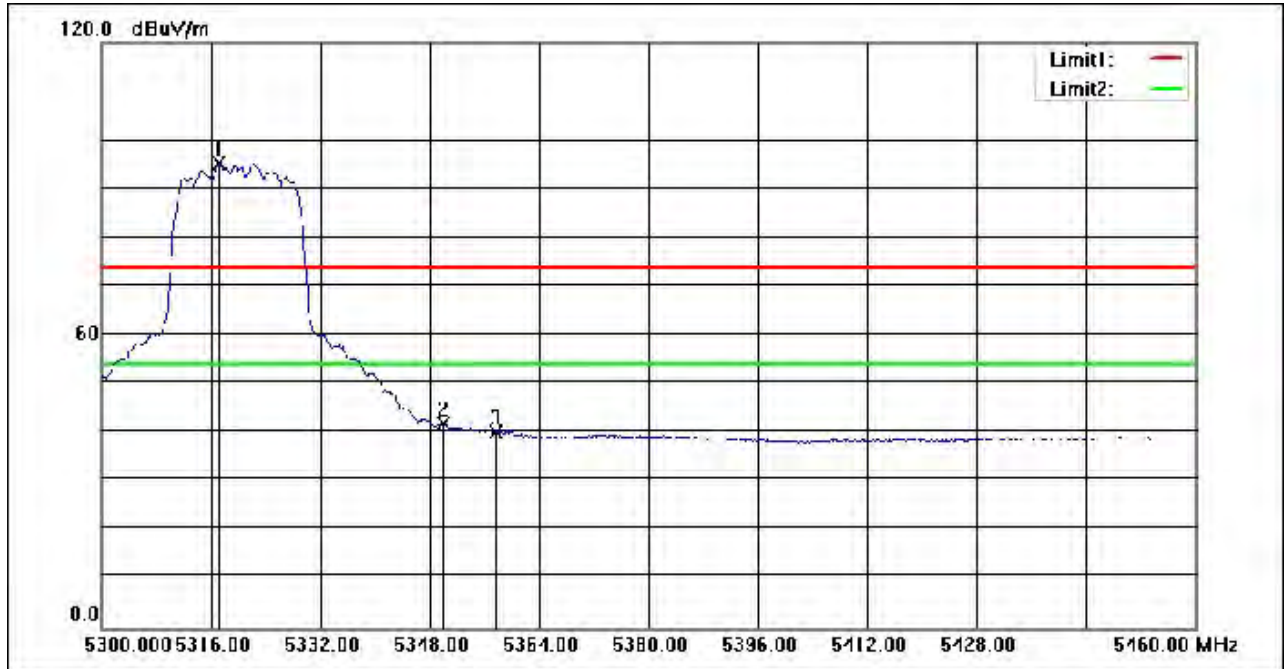
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.120	105.31	-10.09	95.22	54.00	41.22	AVG
2	5350.000	51.65	-9.94	41.71	54.00	-12.29	AVG
3	5357.760	49.97	-9.90	40.07	54.00	-13.93	AVG



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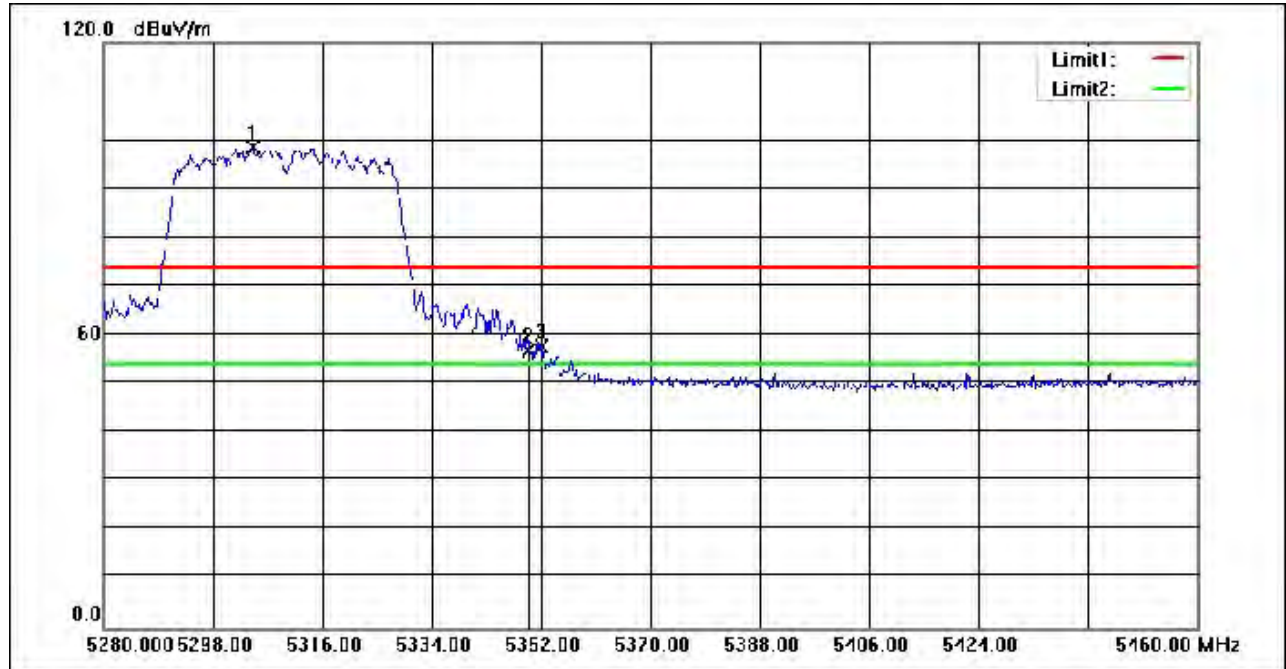
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5304.480	108.81	-10.15	98.66	74.00	24.66	peak
2	5350.000	66.83	-9.94	56.89	74.00	-17.11	peak
3	5352.180	67.55	-9.93	57.62	74.00	-16.38	peak



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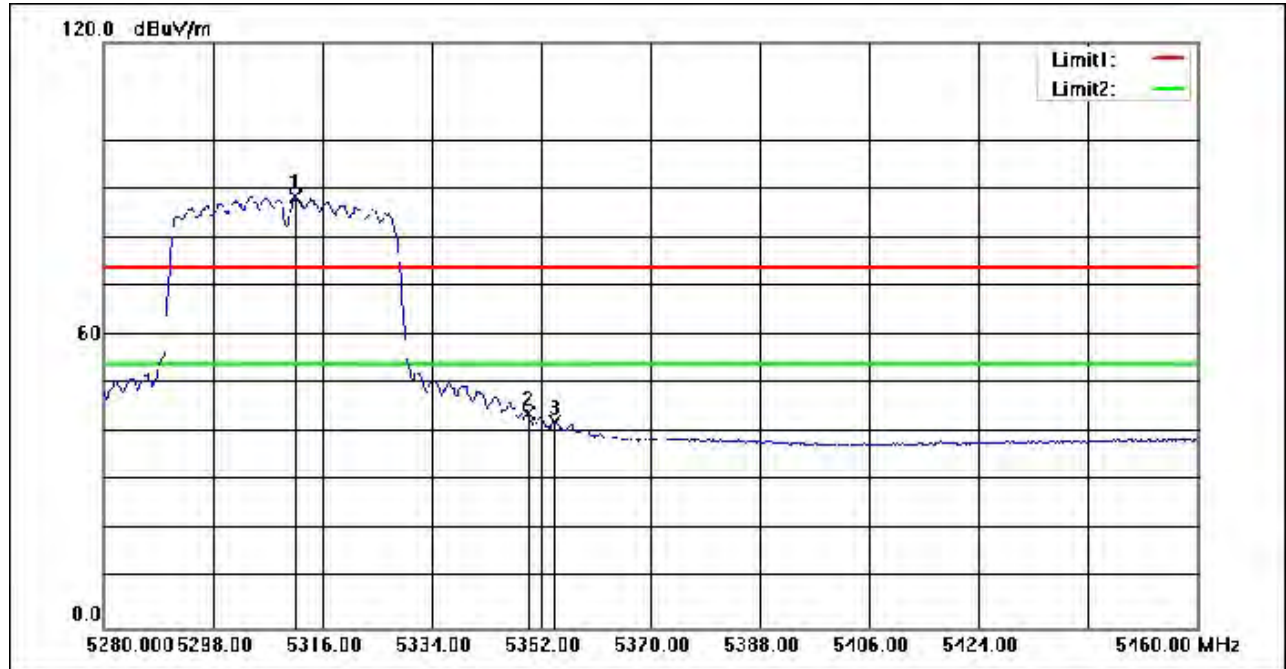
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5311.500	98.62	-10.12	88.50	54.00	34.50	AVG
2	5350.000	53.85	-9.94	43.91	54.00	-10.09	AVG
3	5354.160	52.13	-9.92	42.21	54.00	-11.79	AVG



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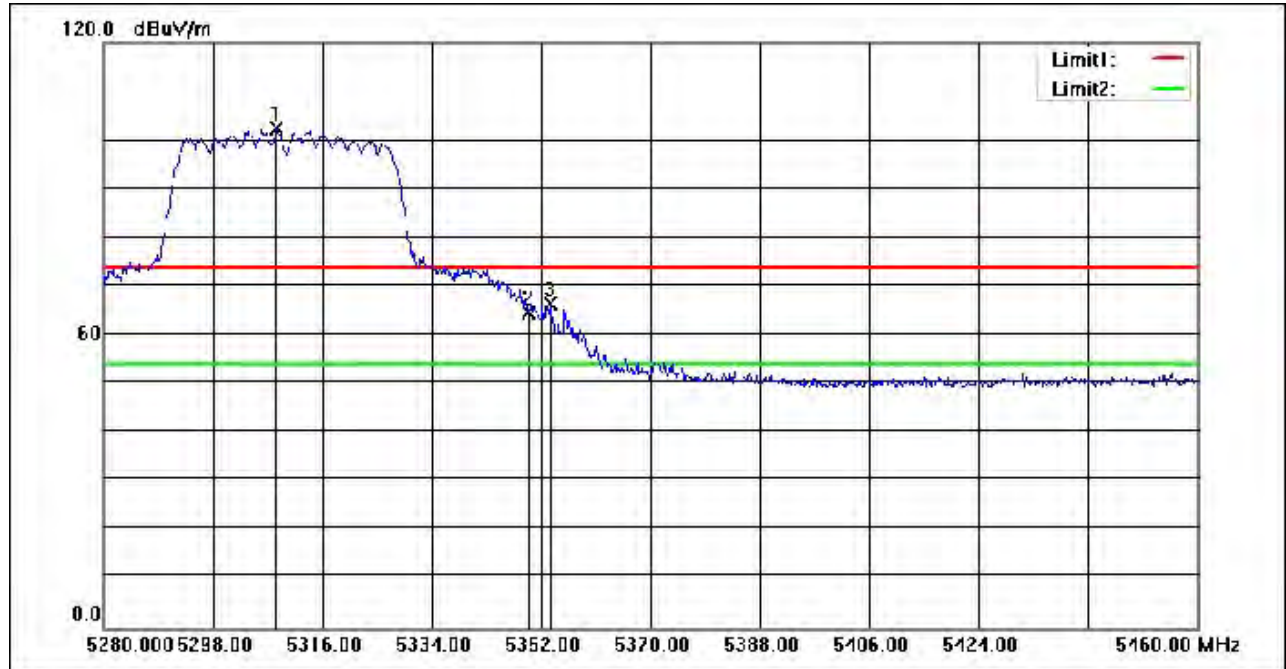
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5308.440	112.45	-10.13	102.32	74.00	28.32	peak
2	5350.000	74.60	-9.94	64.66	74.00	-9.34	peak
3	5353.620	76.26	-9.92	66.34	74.00	-7.66	peak



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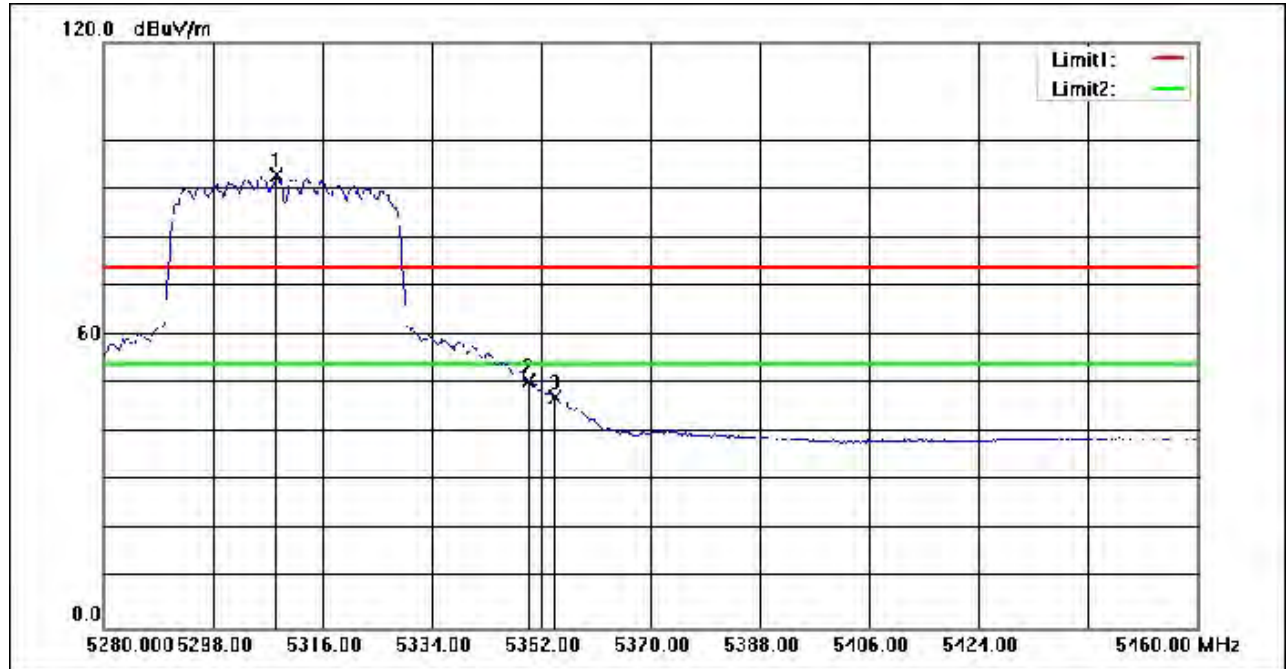
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5308.440	102.92	-10.13	92.79	54.00	38.79	AVG
2	5350.000	60.46	-9.94	50.52	54.00	-3.48	AVG
3	5354.340	57.17	-9.92	47.25	54.00	-6.75	AVG



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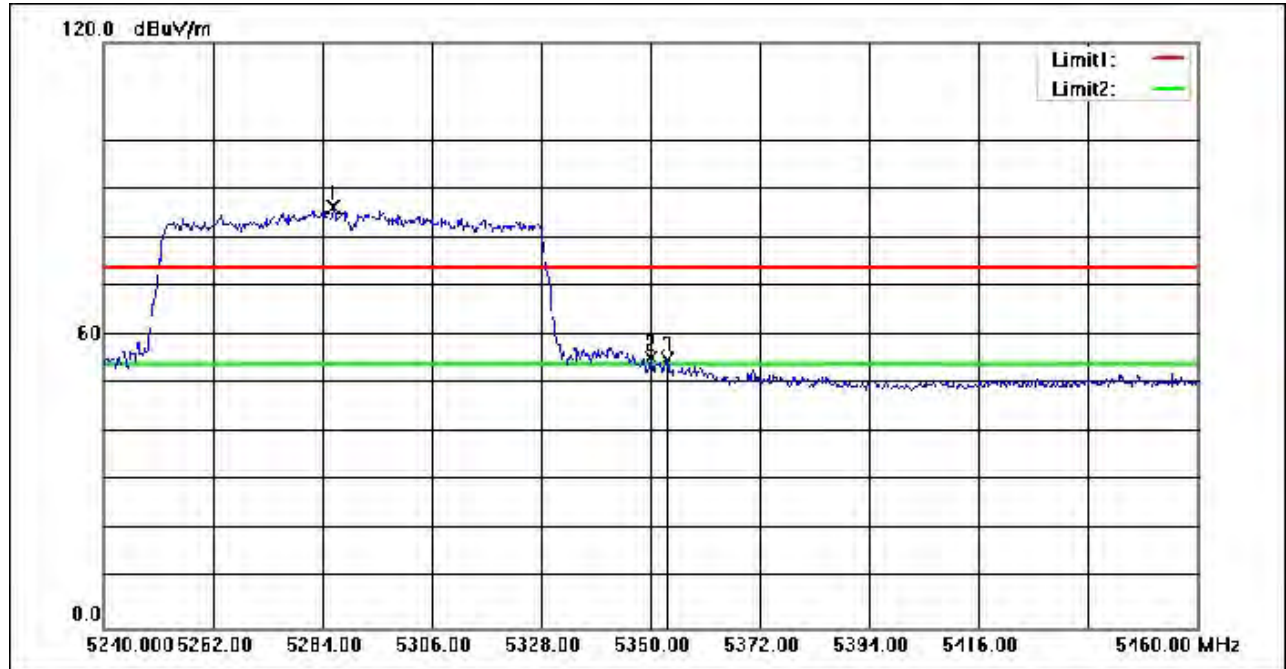
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5286.200	96.41	-10.24	86.17	74.00	12.17	peak
2	5350.000	65.19	-9.94	55.25	74.00	-18.75	peak
3	5353.300	65.09	-9.92	55.17	74.00	-18.83	peak



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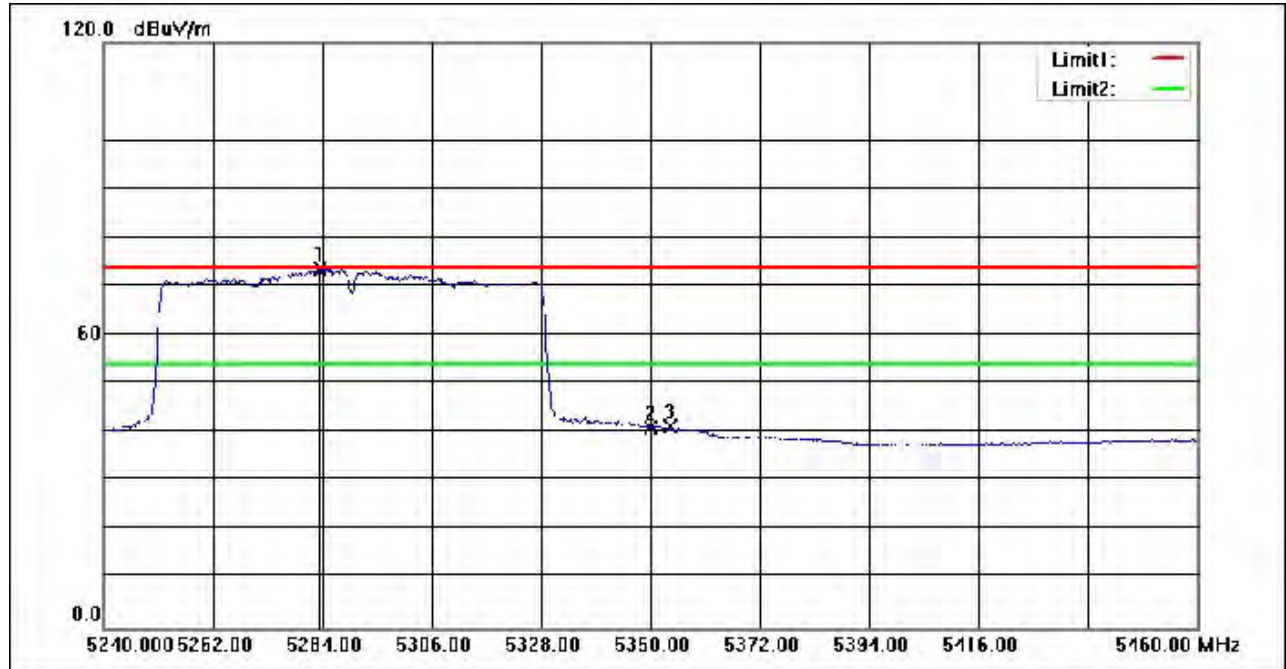
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5283.560	83.88	-10.26	73.62	54.00	19.62	AVG
2	5350.000	51.04	-9.94	41.10	54.00	-12.90	AVG
3	5353.960	51.03	-9.92	41.11	54.00	-12.89	AVG



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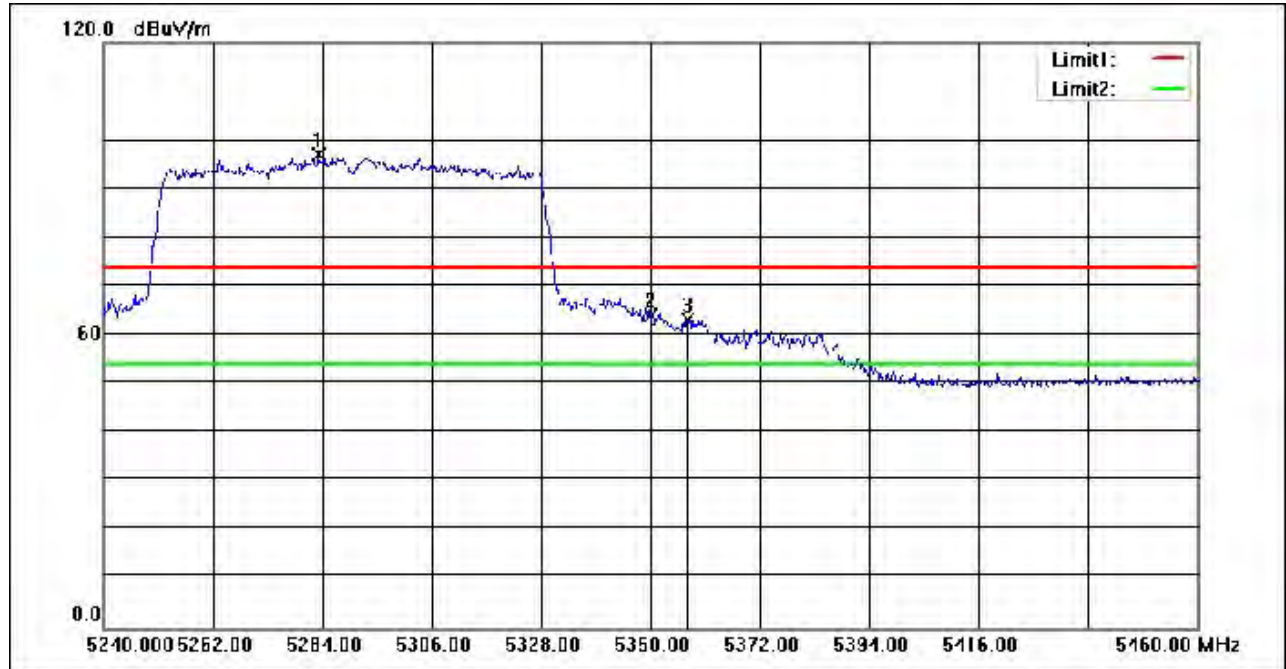
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5283.120	107.34	-10.26	97.08	74.00	23.08	peak
2	5350.000	74.11	-9.94	64.17	74.00	-9.83	peak
3	5357.480	73.04	-9.90	63.14	74.00	-10.86	peak



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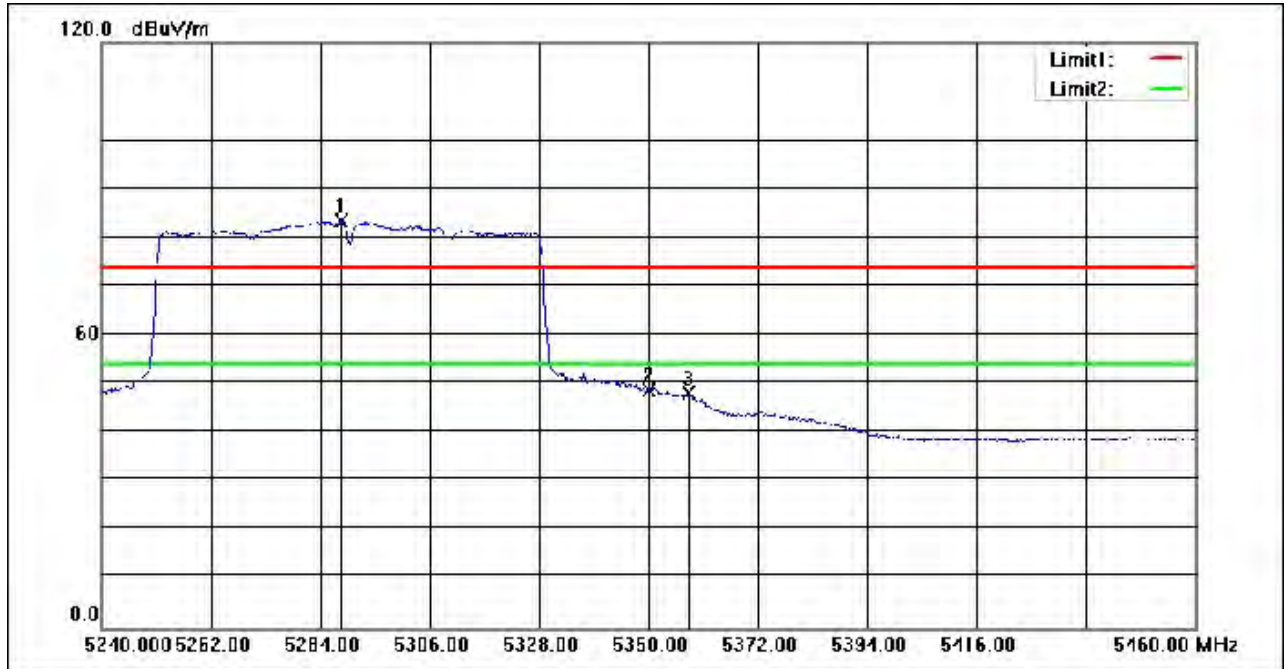
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5288.180	93.63	-10.23	83.40	54.00	29.40	AVG
2	5350.000	58.63	-9.94	48.69	54.00	-5.31	AVG
3	5358.140	57.95	-9.90	48.05	54.00	-5.95	AVG



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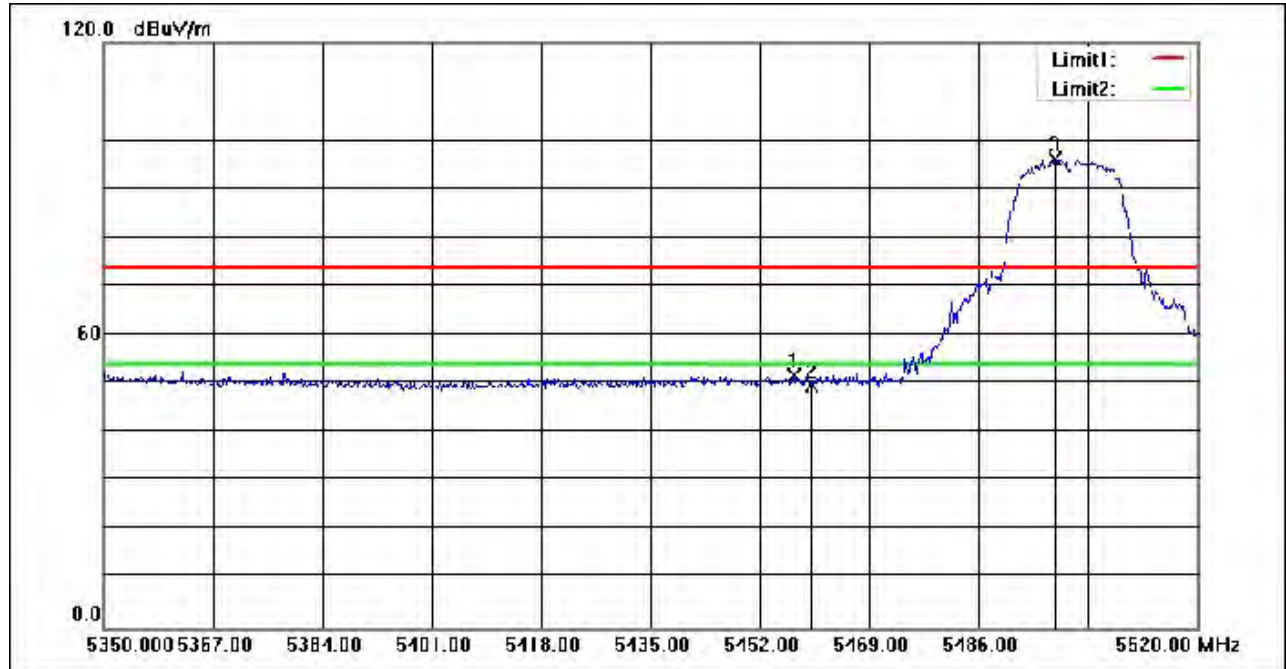
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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.270	61.49	-9.59	51.90	74.00	-22.10	peak
2	5460.000	59.34	-9.59	49.75	74.00	-24.25	peak
3	5497.900	105.69	-9.51	96.18	74.00	22.18	peak



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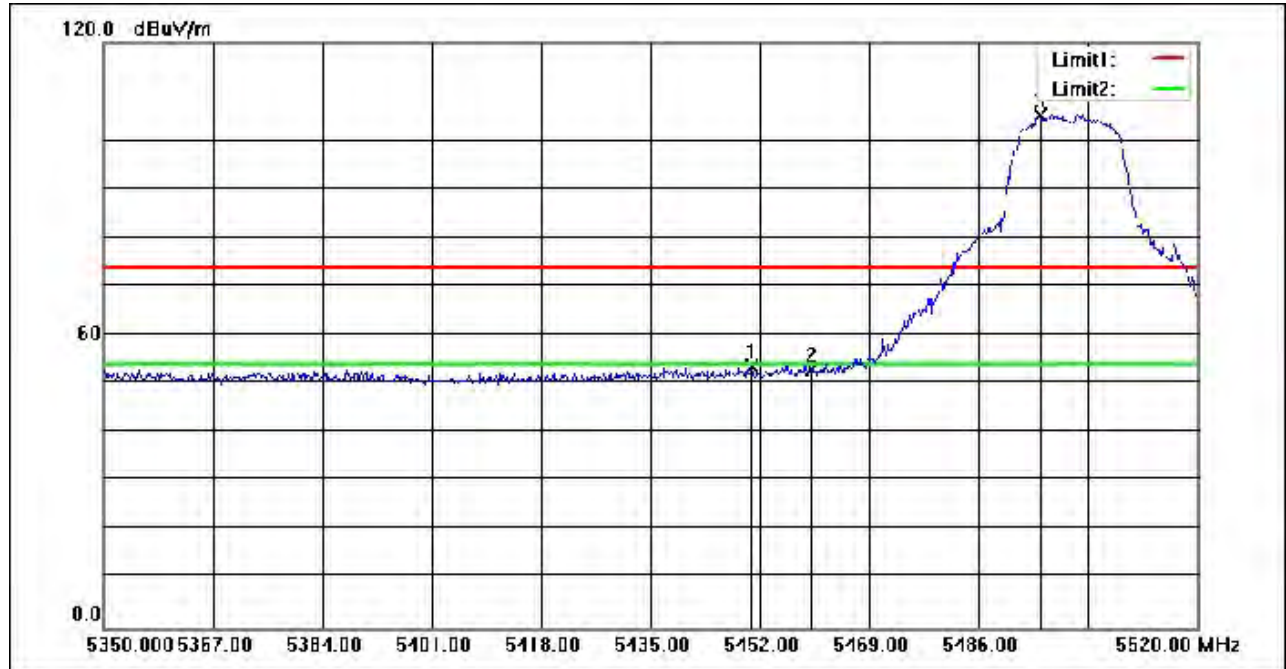
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5450.810	63.27	-9.61	53.66	74.00	-20.34	peak
2	5460.000	62.43	-9.59	52.84	74.00	-21.16	peak
3	5495.520	114.79	-9.52	105.27	74.00	31.27	peak



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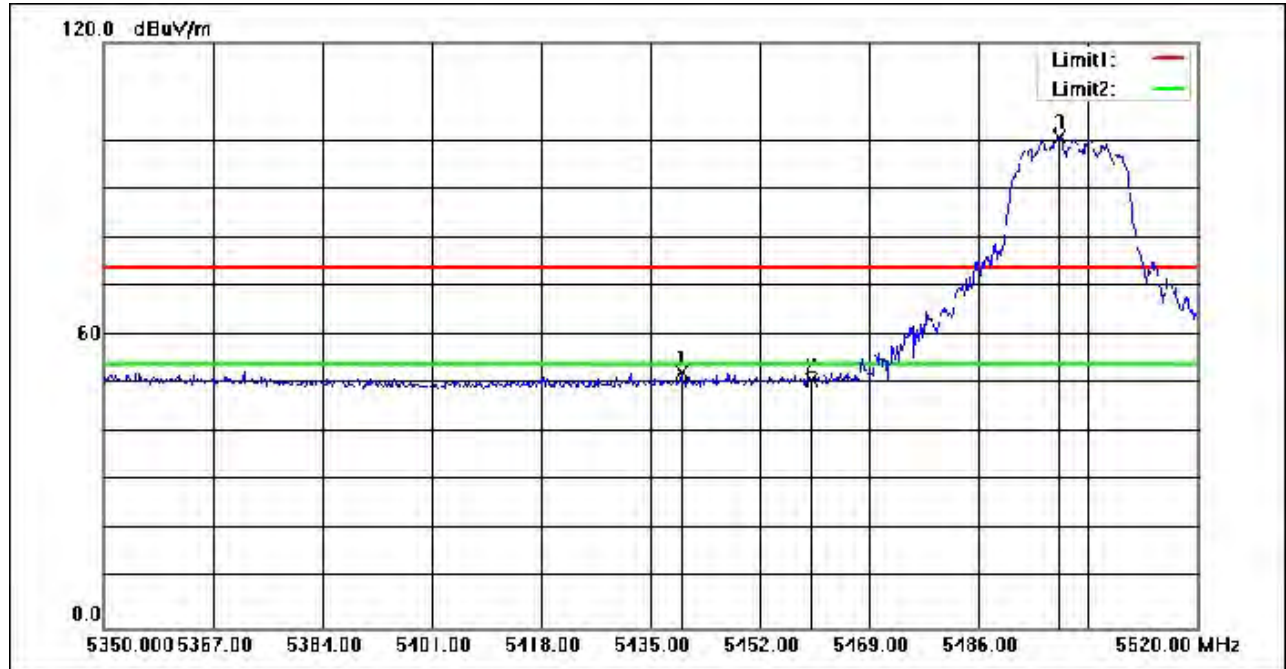
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5439.760	61.84	-9.62	52.22	74.00	-21.78	peak
2	5460.000	60.37	-9.59	50.78	74.00	-23.22	peak
3	5498.580	110.13	-9.51	100.62	74.00	26.62	peak



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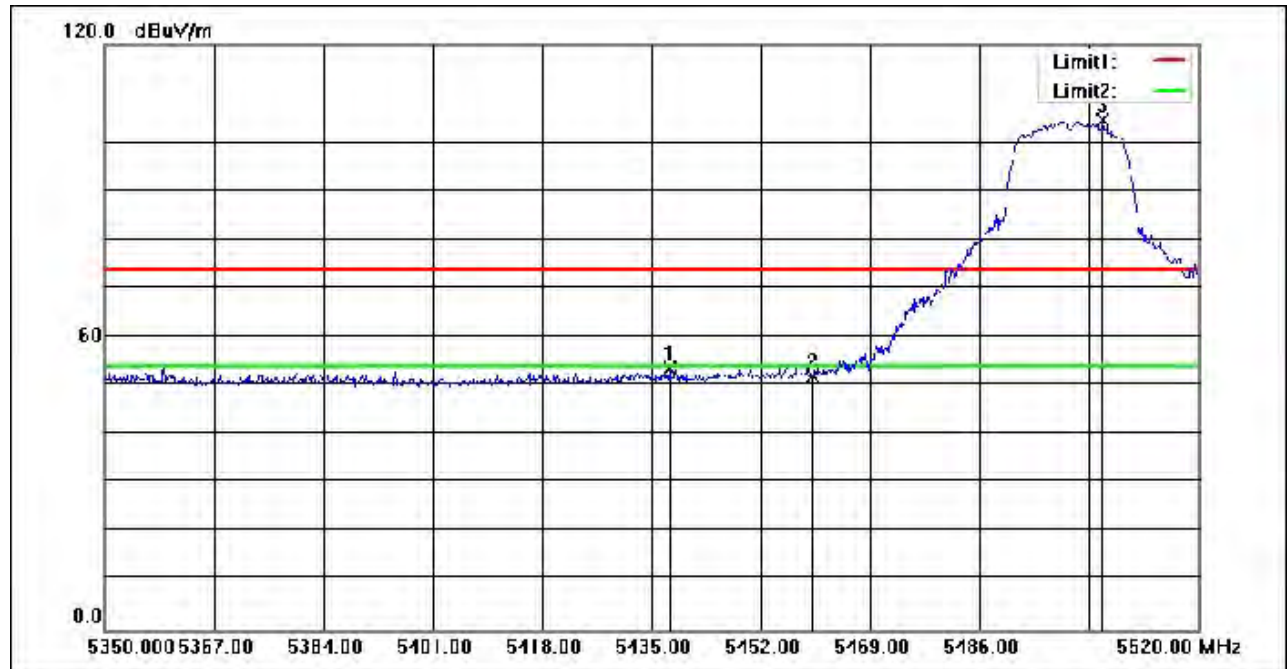
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5437.720	63.14	-9.63	53.51	74.00	-20.49	peak
2	5460.000	61.74	-9.59	52.15	74.00	-21.85	peak
3	5505.210	114.02	-9.51	104.51	74.00	30.51	peak



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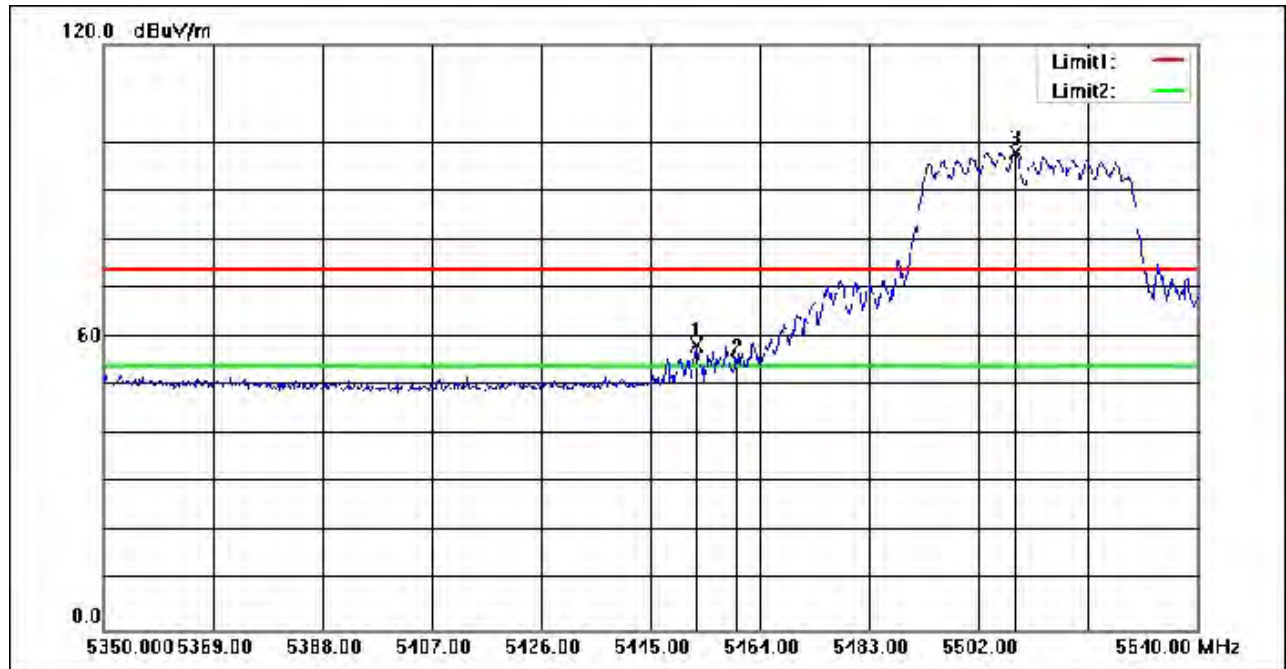
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5452.980	67.80	-9.60	58.20	74.00	-15.80	peak
2	5460.000	64.69	-9.59	55.10	74.00	-18.90	peak
3	5508.460	107.41	-9.50	97.91	74.00	23.91	peak



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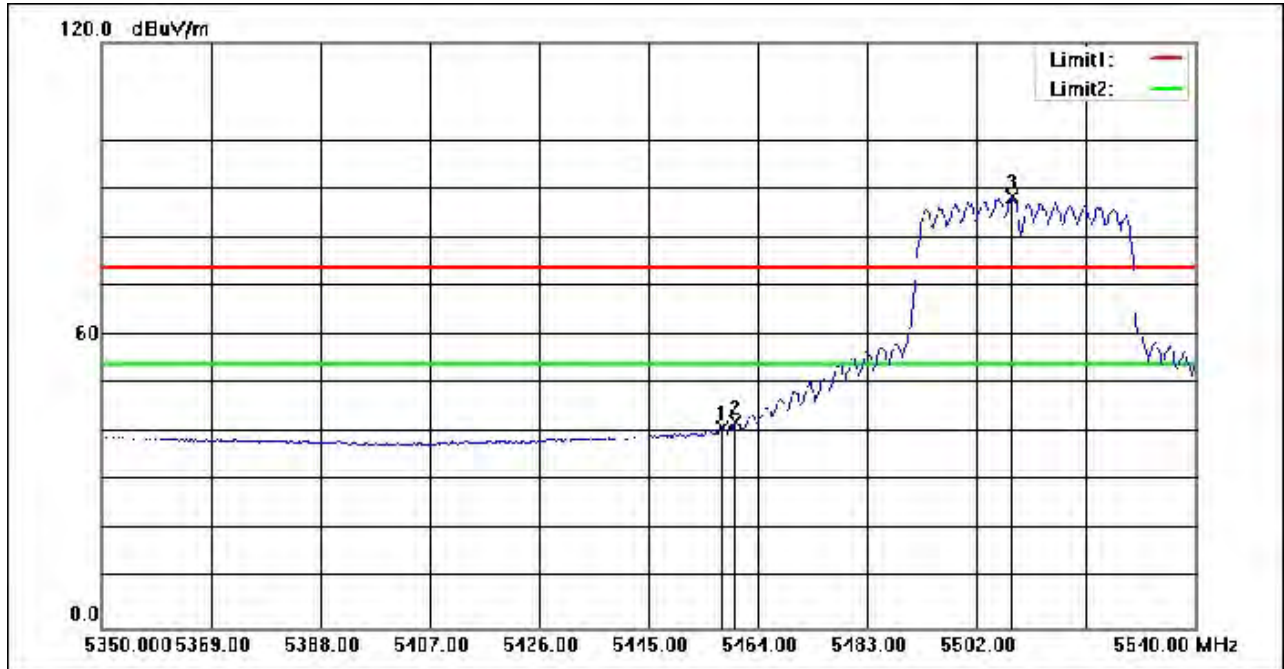
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.730	50.47	-9.59	40.88	54.00	-13.12	AVG
2	5460.000	51.77	-9.59	42.18	54.00	-11.82	AVG
3	5508.270	98.00	-9.50	88.50	54.00	34.50	AVG



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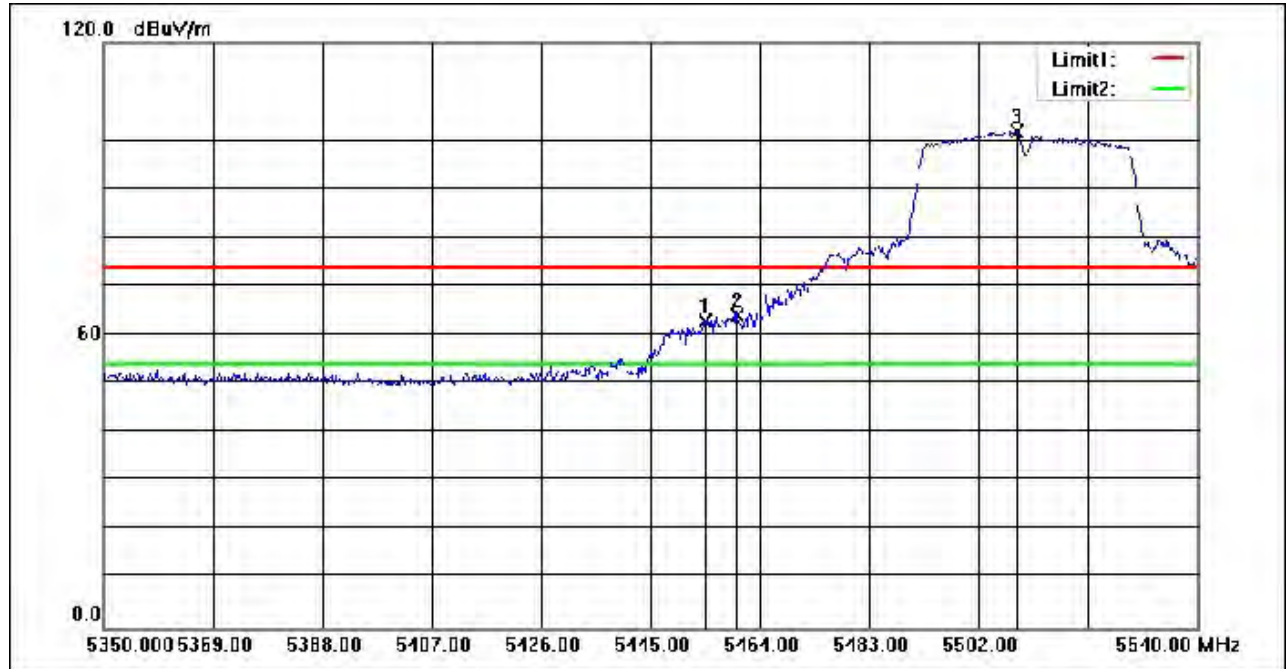
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5454.500	72.57	-9.60	62.97	74.00	-11.03	peak
2	5460.000	73.58	-9.59	63.99	74.00	-10.01	peak
3	5508.650	111.28	-9.50	101.78	74.00	27.78	peak



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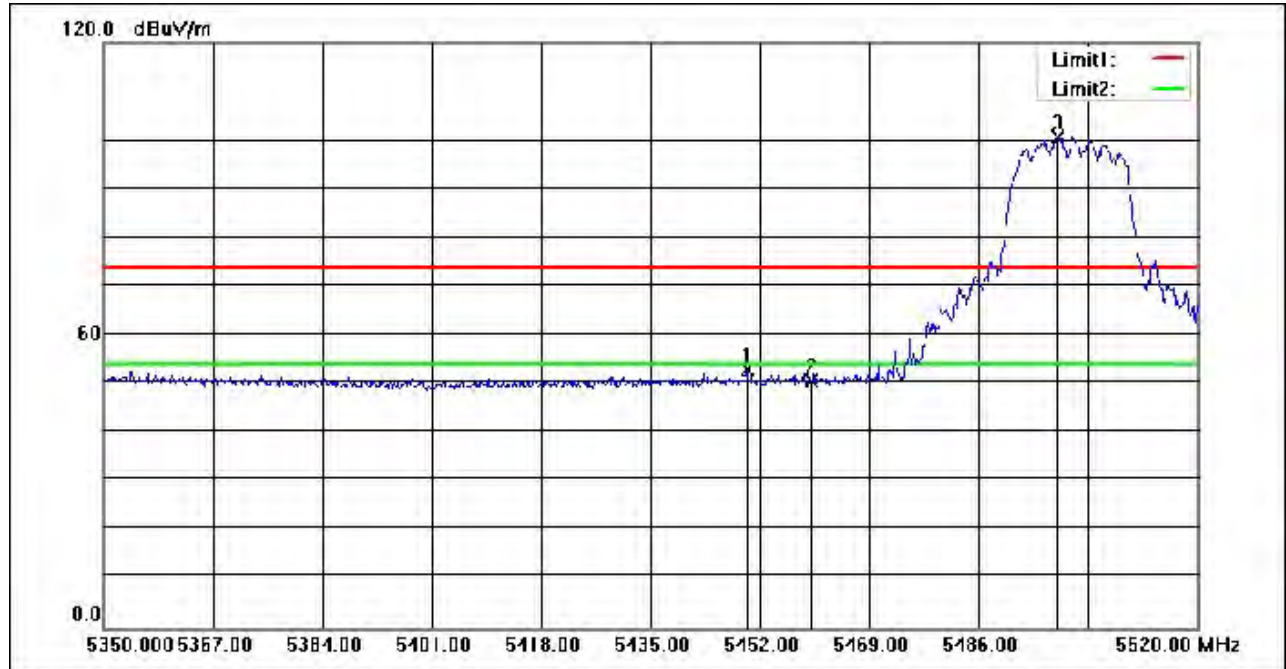
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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5449.960	62.42	-9.61	52.81	74.00	-21.19	peak
2	5460.000	60.14	-9.59	50.55	74.00	-23.45	peak
3	5498.410	110.24	-9.51	100.73	74.00	26.73	peak



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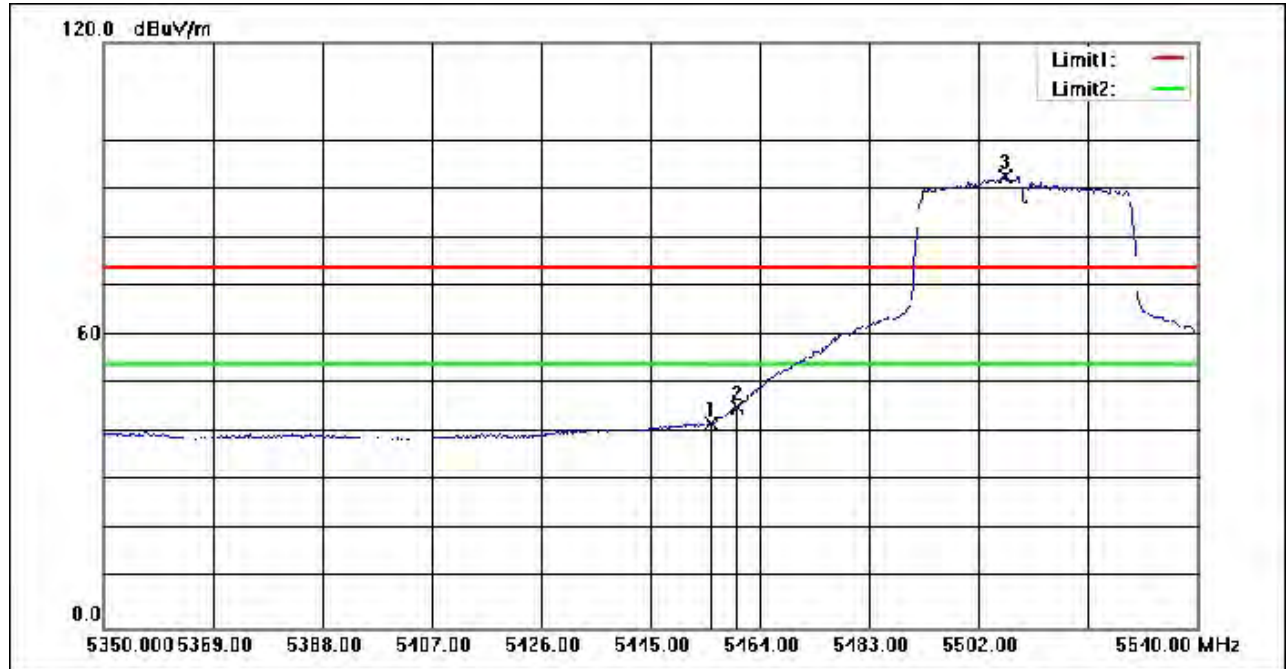
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.450	51.58	-9.60	41.98	54.00	-12.02	AVG
2	5460.000	54.89	-9.59	45.30	54.00	-8.70	AVG
3	5506.560	102.02	-9.51	92.51	54.00	38.51	AVG



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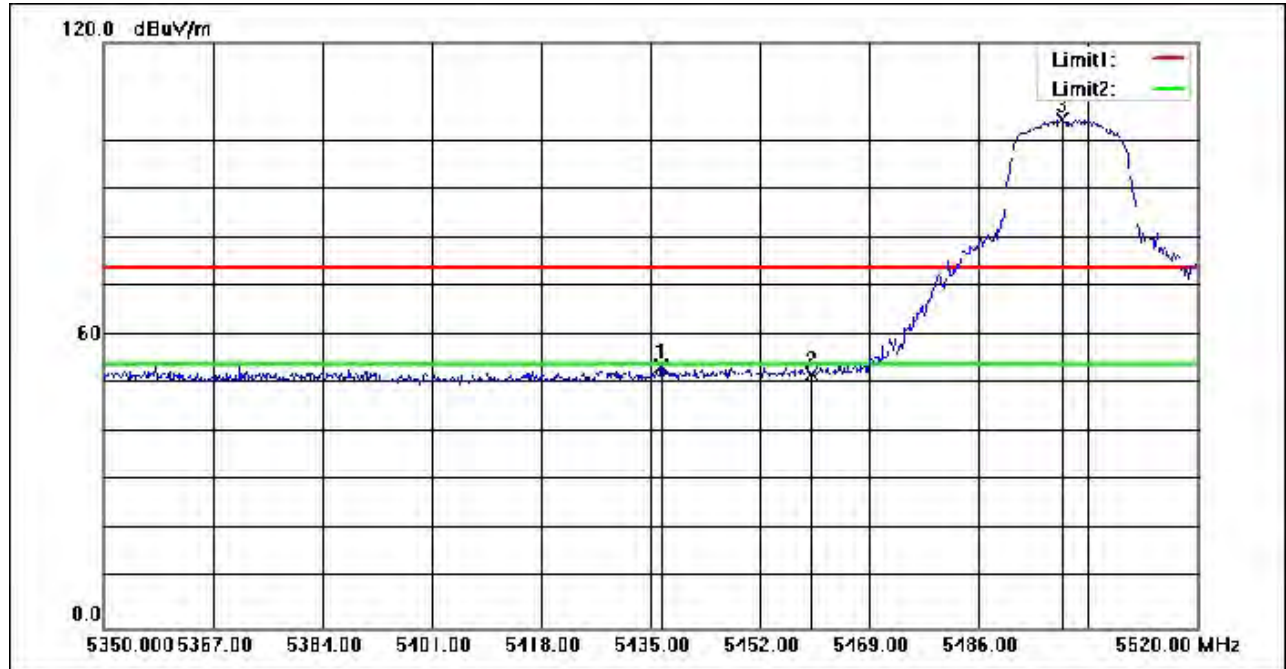
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5436.700	63.30	-9.63	53.67	74.00	-20.33	peak
2	5460.000	61.51	-9.59	51.92	74.00	-22.08	peak
3	5498.920	113.90	-9.51	104.39	74.00	30.39	peak



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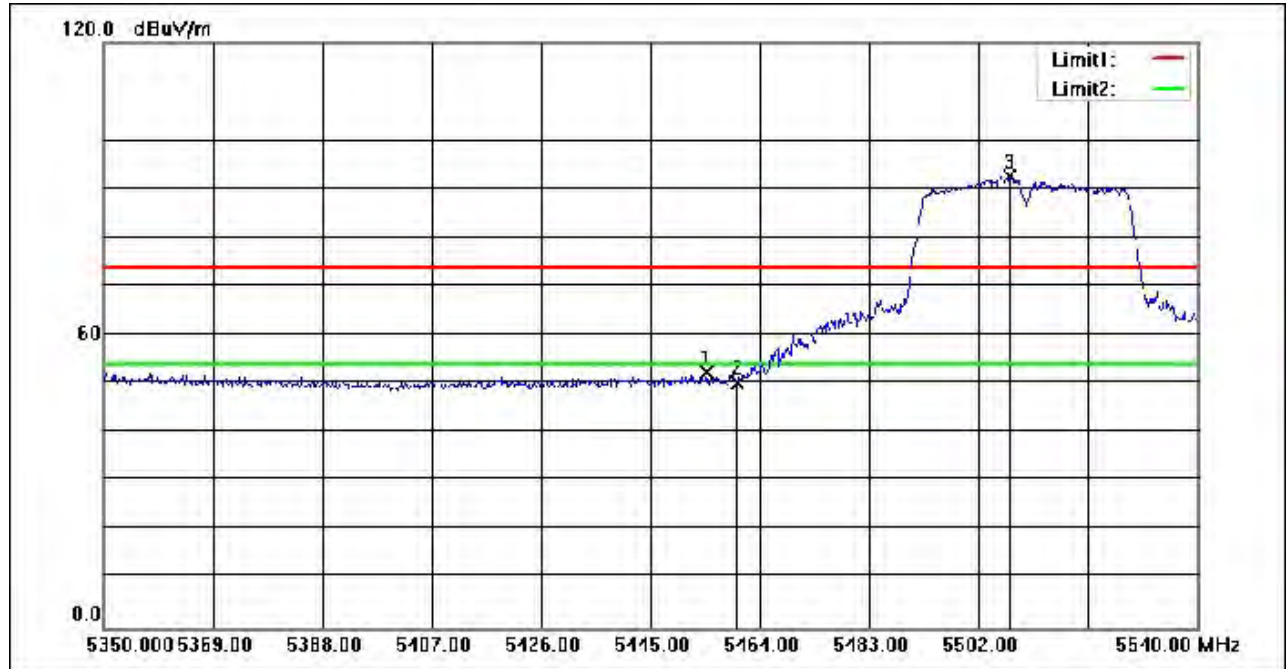
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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5454.690	61.90	-9.60	52.30	74.00	-21.70	peak
2	5460.000	59.90	-9.59	50.31	74.00	-23.69	peak
3	5507.320	102.04	-9.50	92.54	74.00	18.54	peak



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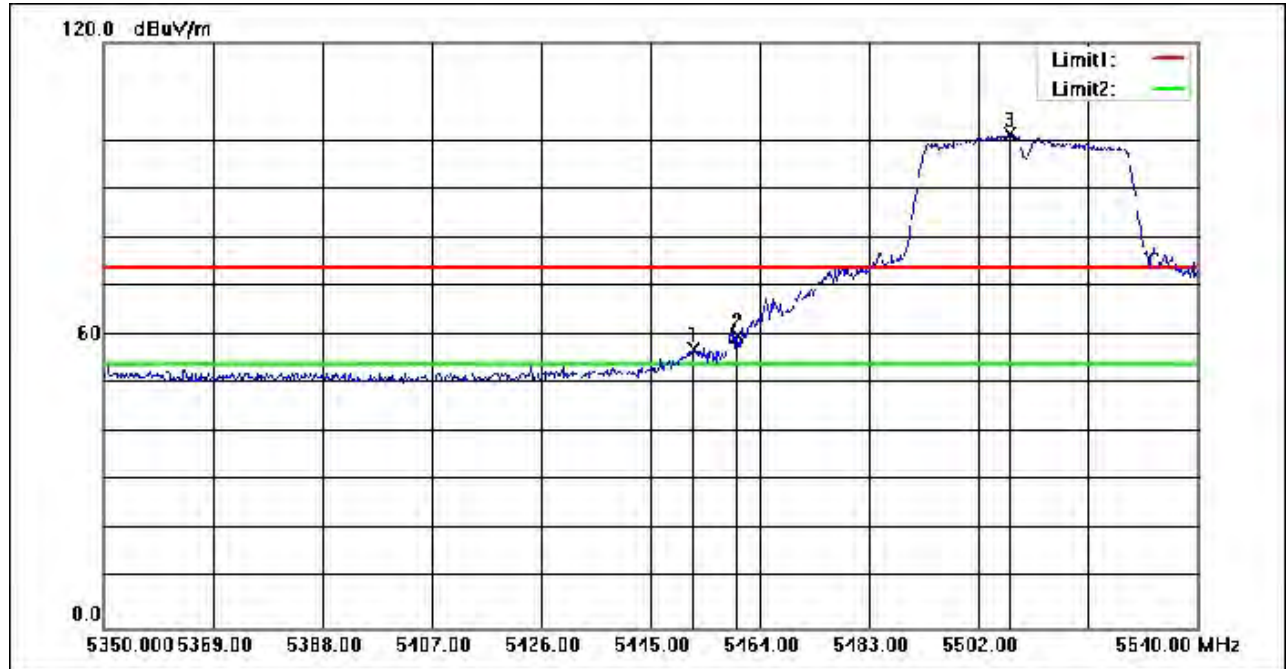
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5452.410	66.70	-9.60	57.10	74.00	-16.90	peak
2	5460.000	69.43	-9.59	59.84	74.00	-14.16	peak
3	5507.320	110.63	-9.50	101.13	74.00	27.13	peak



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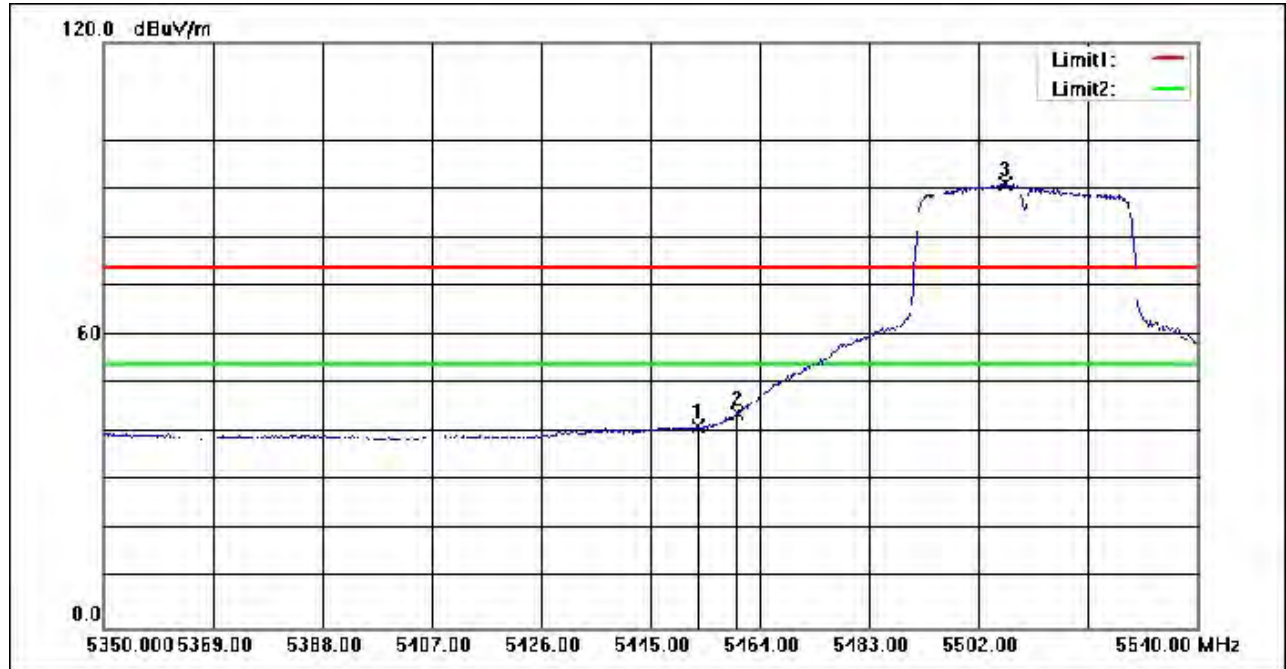
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5453.170	50.76	-9.60	41.16	54.00	-12.84	AVG
2	5460.000	53.61	-9.59	44.02	54.00	-9.98	AVG
3	5506.560	100.66	-9.51	91.15	54.00	37.15	AVG



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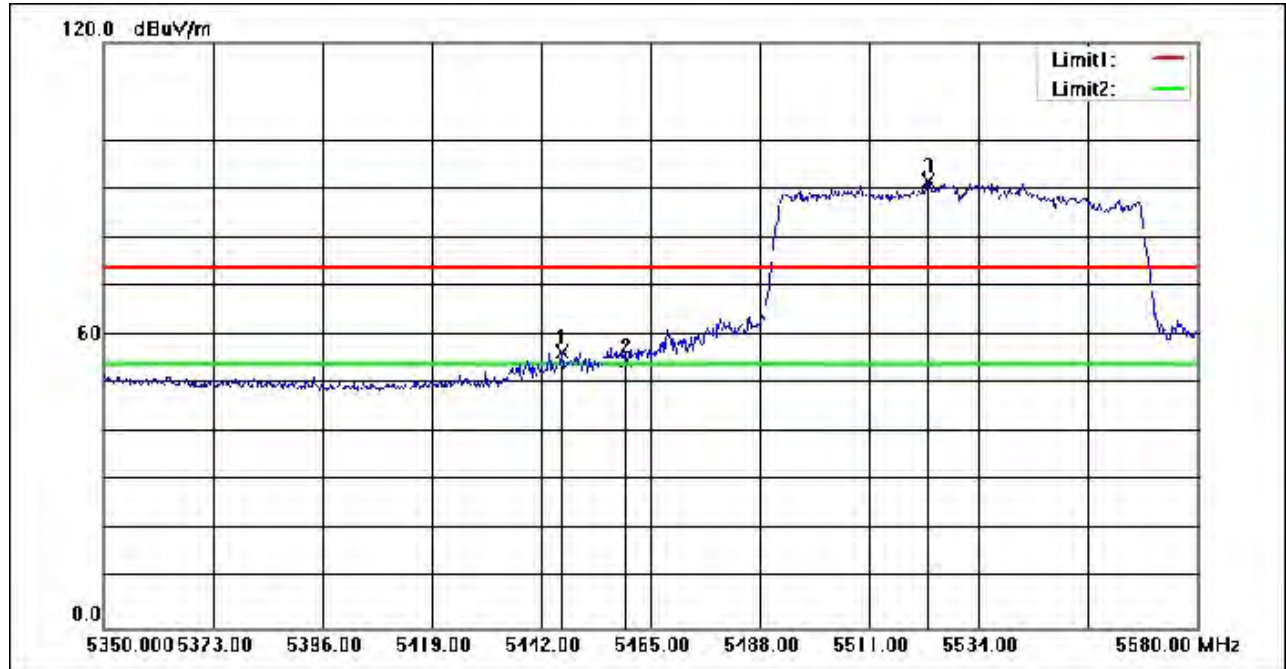
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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5446.370	66.15	-9.62	56.53	74.00	-17.47	peak
2	5460.000	64.48	-9.59	54.89	74.00	-19.11	peak
3	5523.420	101.00	-9.47	91.53	74.00	17.53	peak



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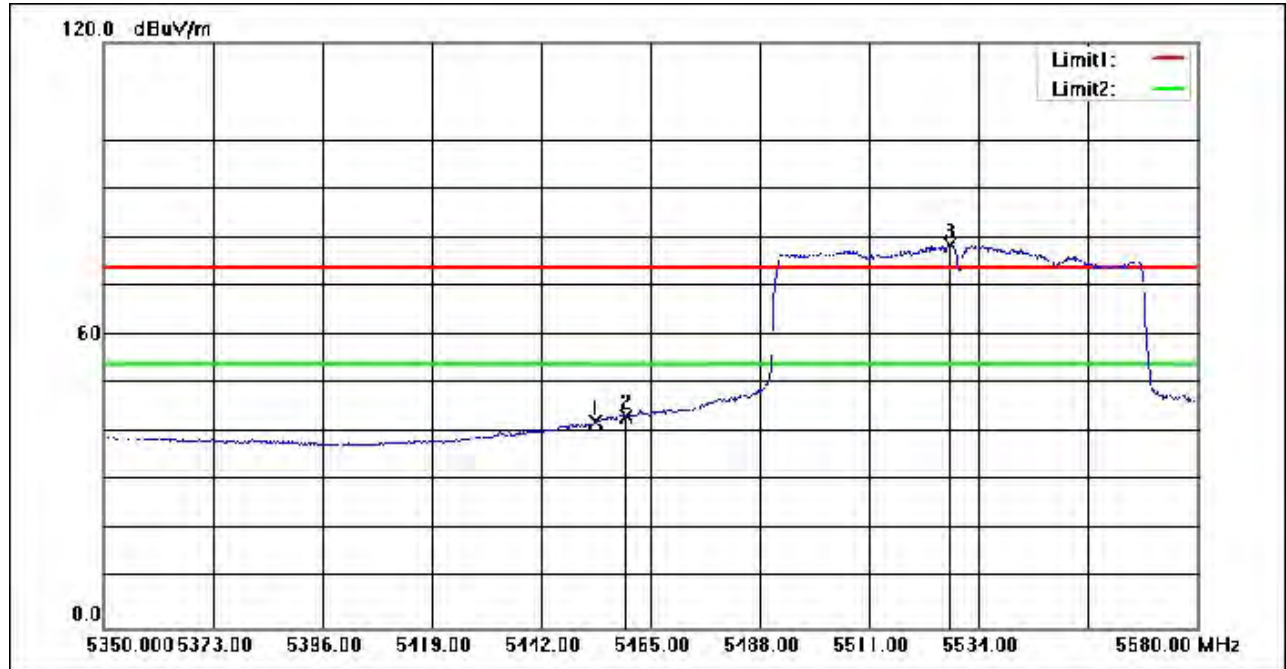
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5453.500	51.71	-9.60	42.11	54.00	-11.89	AVG
2	5460.000	52.94	-9.59	43.35	54.00	-10.65	AVG
3	5528.020	88.01	-9.46	78.55	54.00	24.55	AVG



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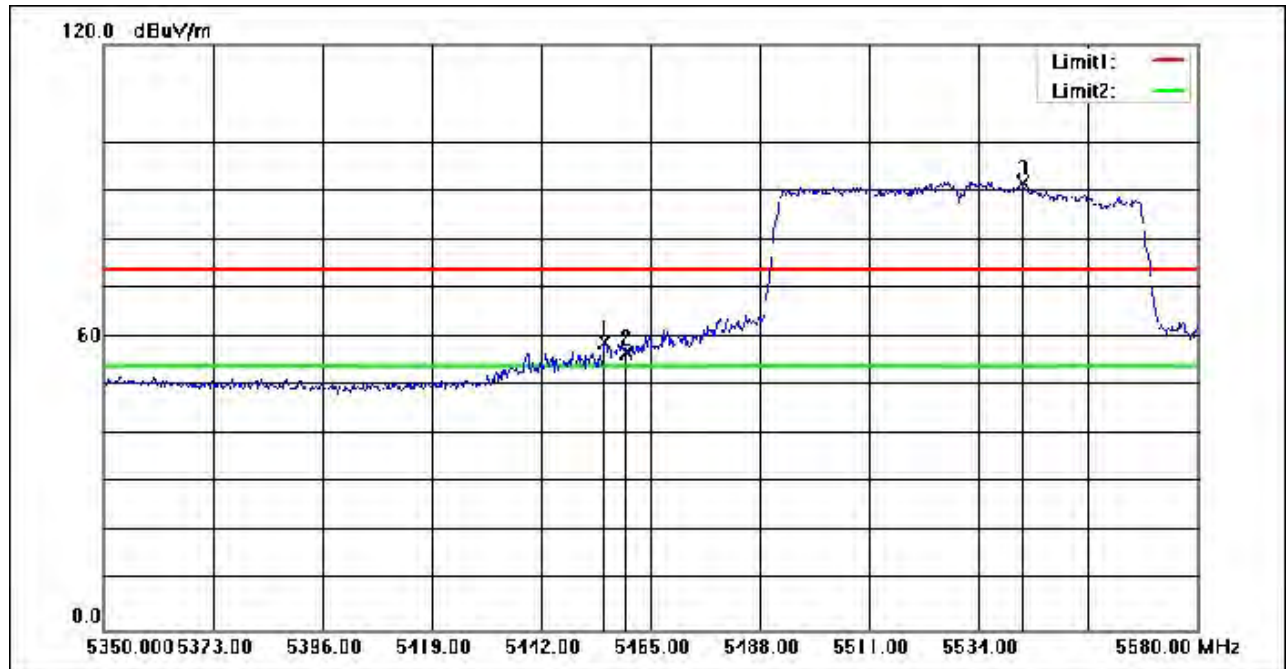
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.340	68.51	-9.60	58.91	74.00	-15.09	peak
2	5460.000	66.55	-9.59	56.96	74.00	-17.04	peak
3	5543.430	101.23	-9.43	91.80	74.00	17.80	peak



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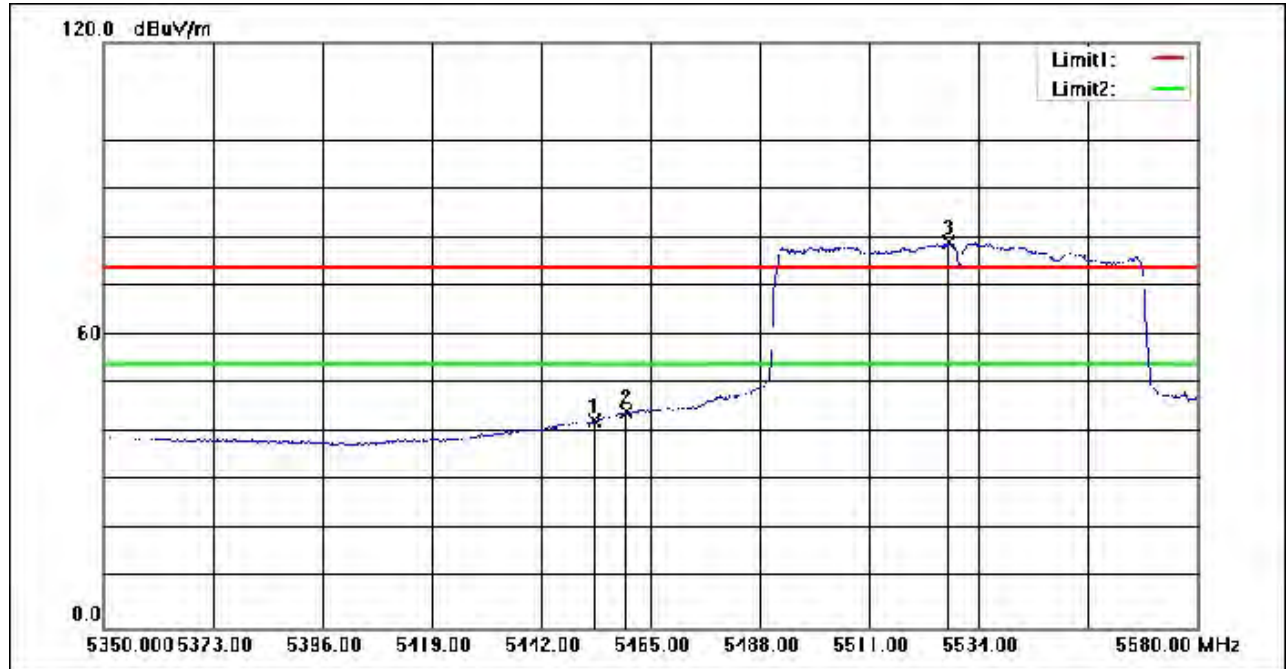
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5453.040	52.04	-9.60	42.44	54.00	-11.56	AVG
2	5460.000	53.89	-9.59	44.30	54.00	-9.70	AVG
3	5527.560	88.44	-9.46	78.98	54.00	24.98	AVG



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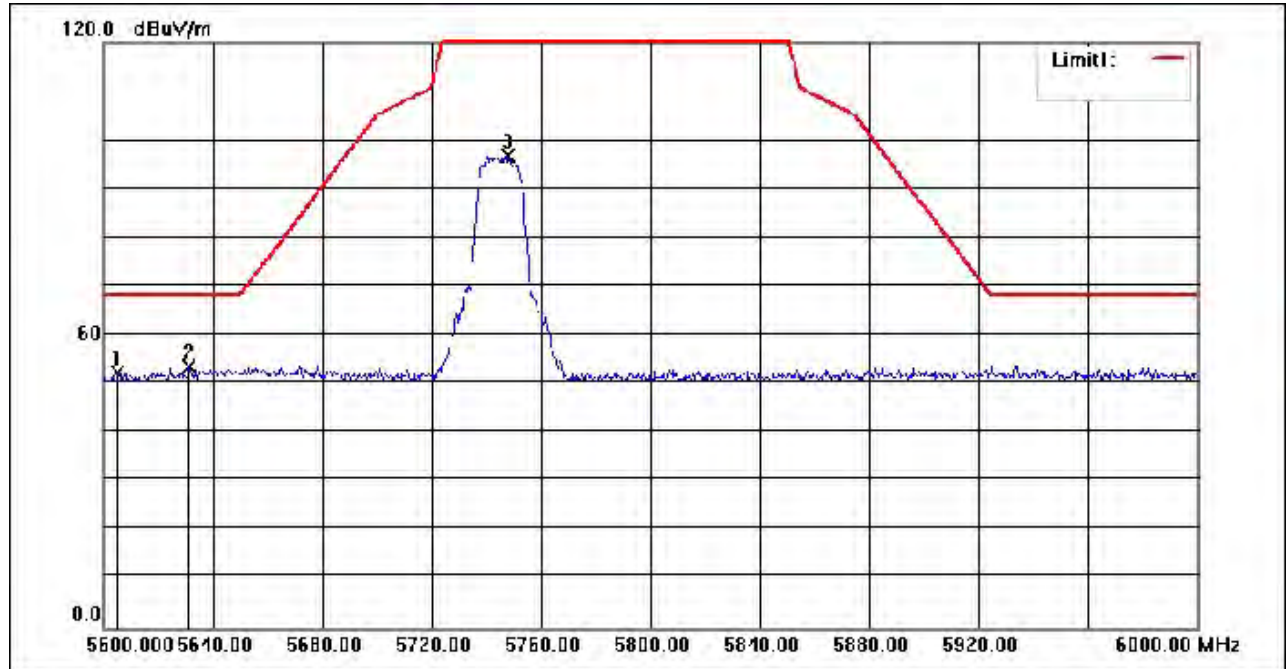
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5605.200	61.74	-9.31	52.43	68.20	-15.77	peak
2	5631.200	62.82	-9.23	53.59	68.20	-14.61	peak
3	5748.000	105.63	-8.85	96.78	135.00	-38.22	peak



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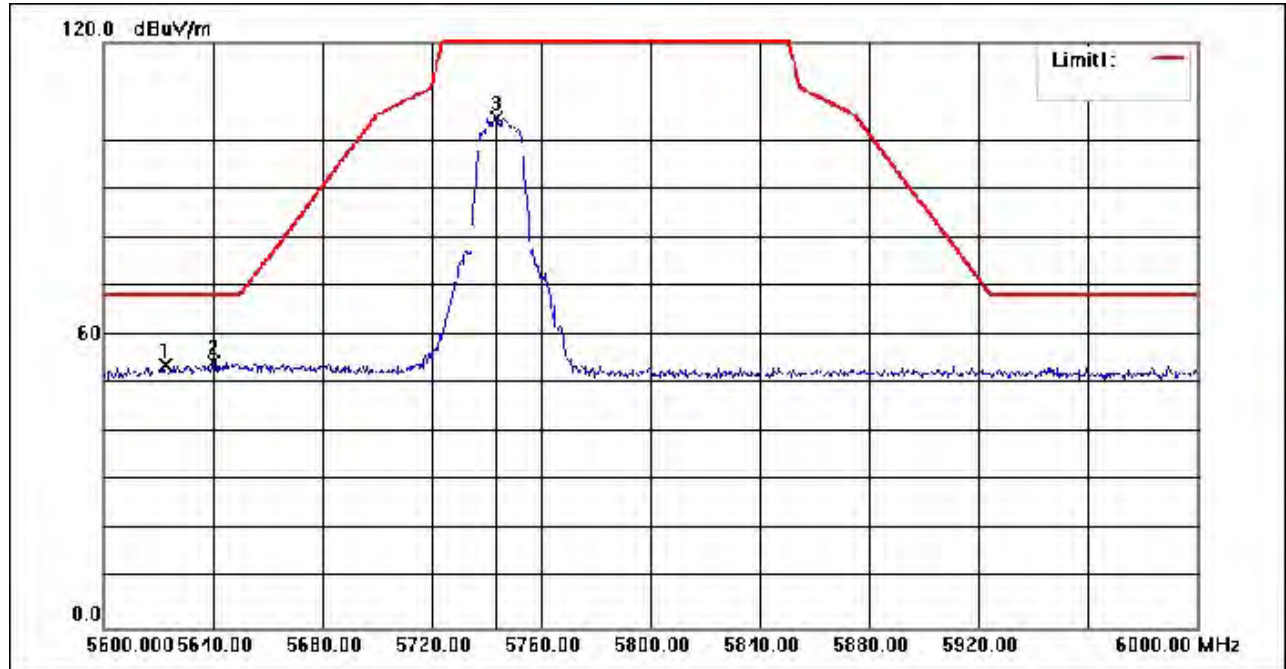
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5622.400	63.20	-9.26	53.94	68.20	-14.26	peak
2	5640.400	63.56	-9.20	54.36	68.20	-13.84	peak
3	5743.600	113.42	-8.87	104.55	135.00	-30.45	peak



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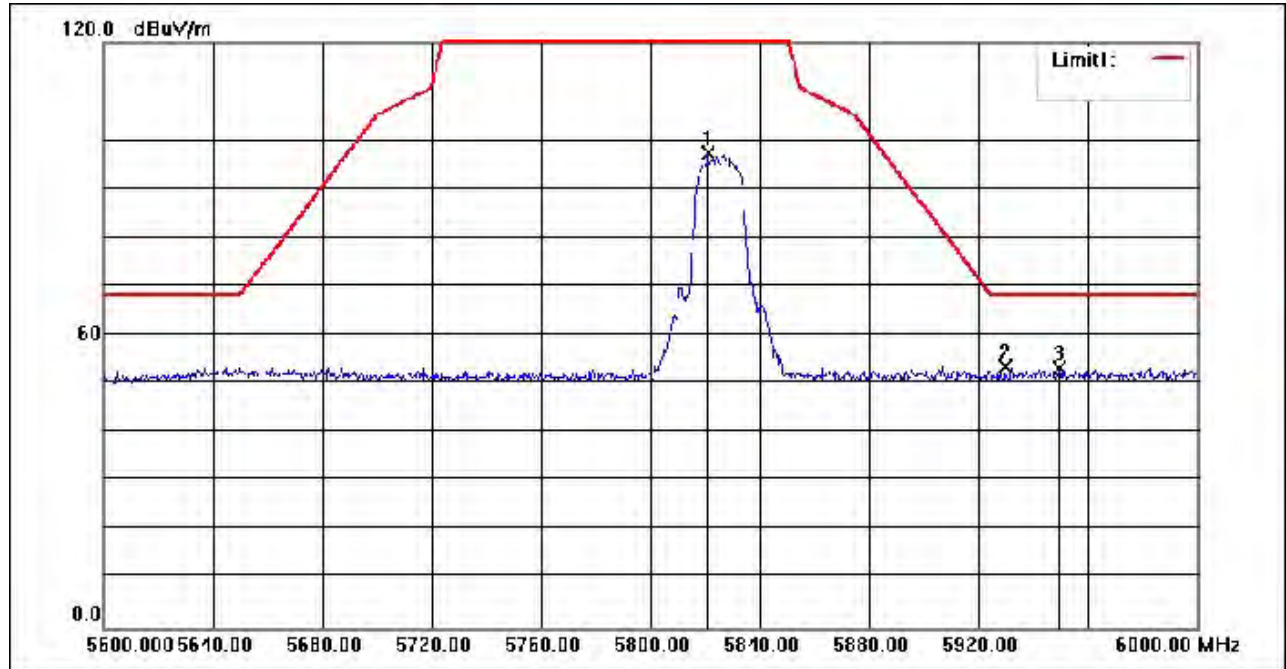
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189402

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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.800	105.93	-8.60	97.33	135.00	-37.67	peak
2	5929.600	61.55	-8.11	53.44	68.20	-14.76	peak
3	5949.600	61.20	-8.03	53.17	68.20	-15.03	peak



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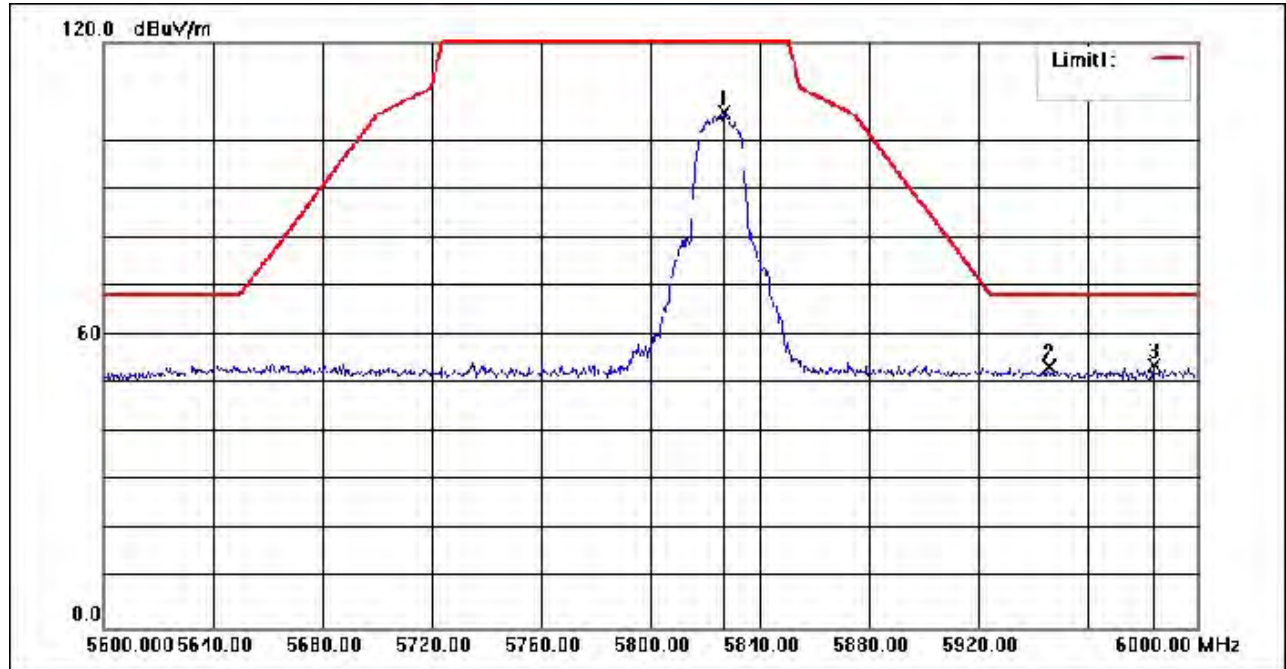
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	114.33	-8.57	105.76	135.00	-29.24	peak
2	5946.000	61.49	-8.04	53.45	68.20	-14.75	peak
3	5984.000	61.63	-7.87	53.76	68.20	-14.44	peak



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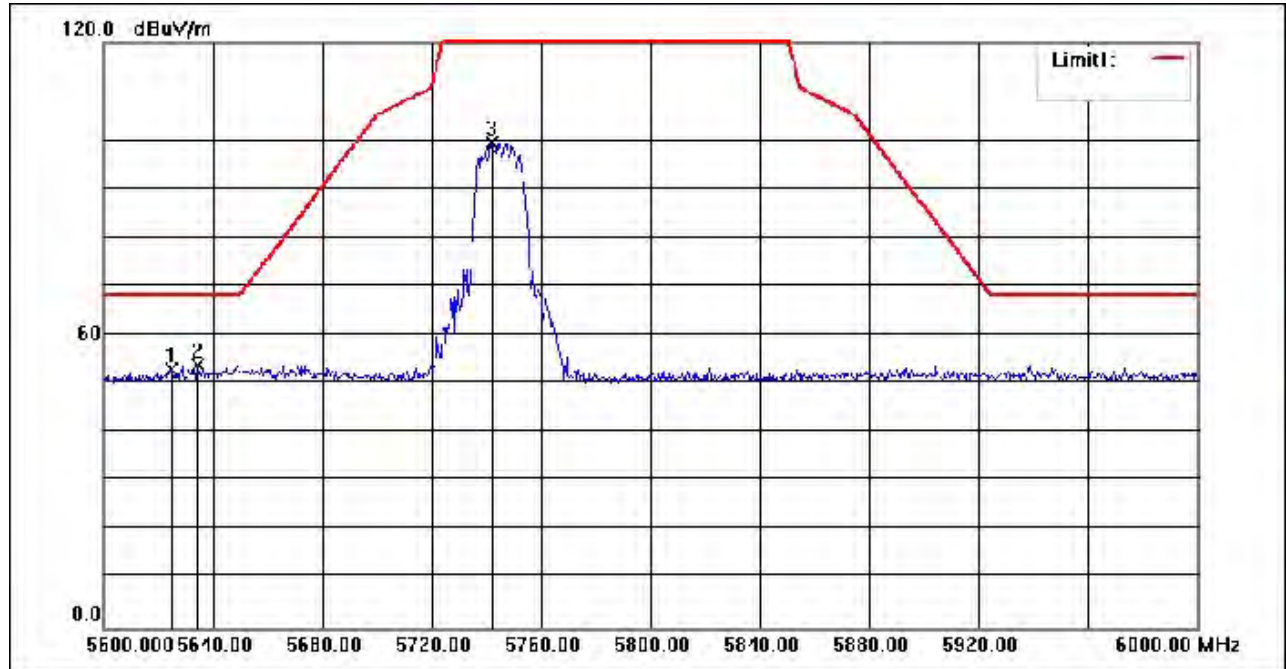
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.800	62.23	-9.25	52.98	68.20	-15.22	peak
2	5634.400	63.10	-9.22	53.88	68.20	-14.32	peak
3	5742.000	108.37	-8.87	99.50	135.00	-35.50	peak



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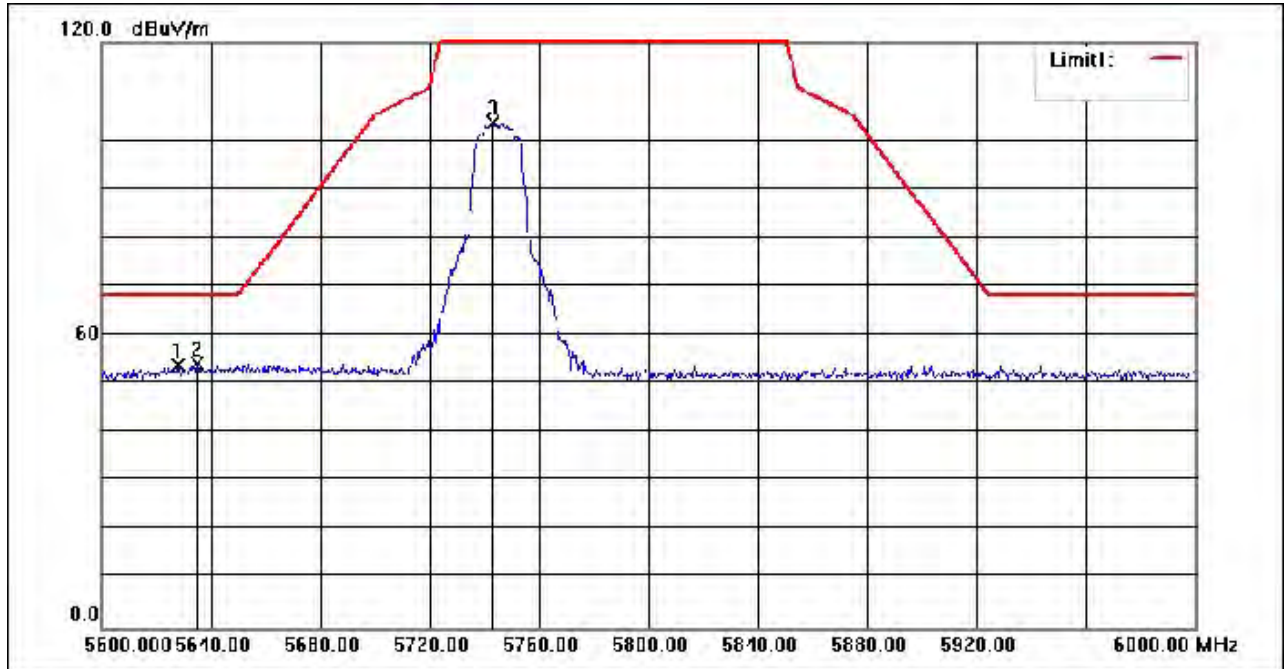
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.000	63.05	-9.24	53.81	68.20	-14.39	peak
2	5634.800	63.40	-9.22	54.18	68.20	-14.02	peak
3	5743.200	112.51	-8.87	103.64	135.00	-31.36	peak



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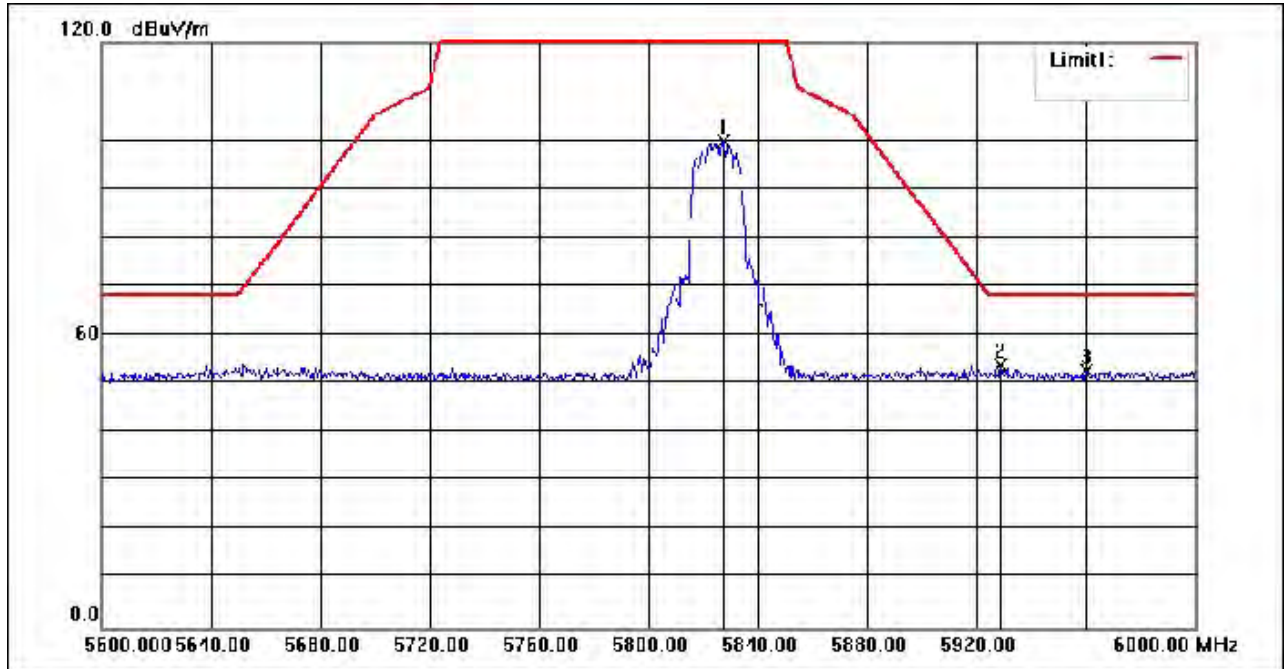
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5827.200	108.18	-8.57	99.61	135.00	-35.39	peak
2	5928.800	61.97	-8.12	53.85	68.20	-14.35	peak
3	5960.400	60.75	-7.98	52.77	68.20	-15.43	peak



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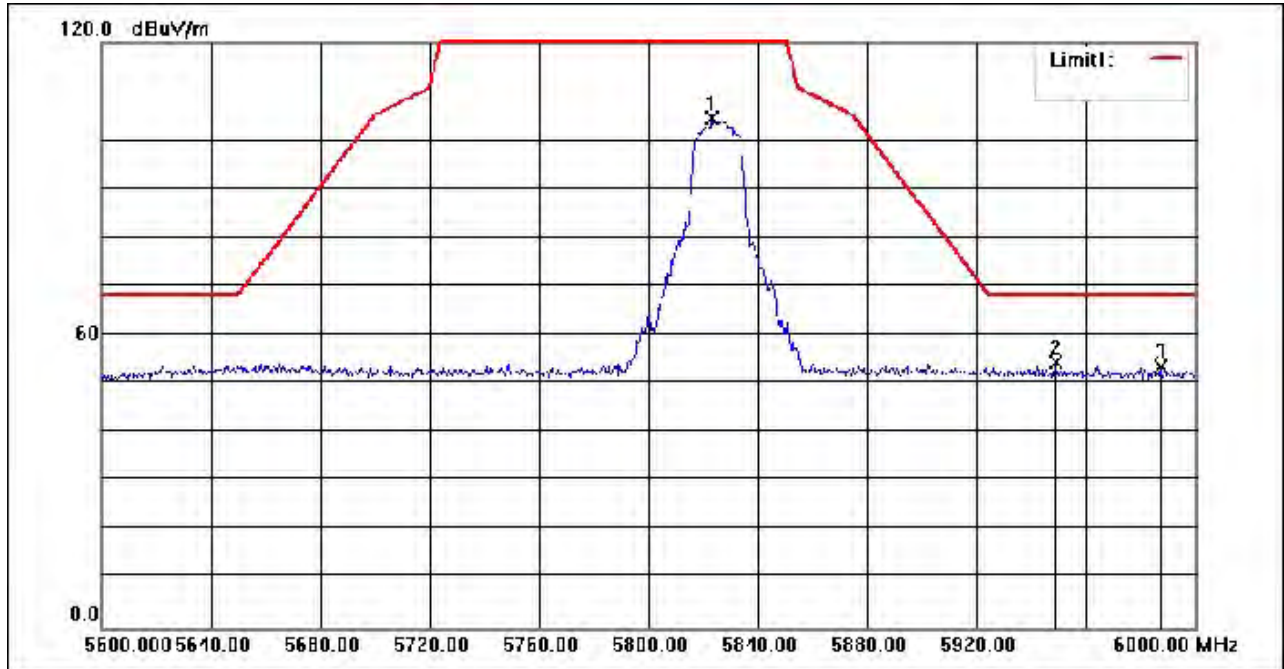
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.200	112.99	-8.58	104.41	135.00	-30.59	peak
2	5948.800	62.60	-8.03	54.57	68.20	-13.63	peak
3	5987.200	61.35	-7.86	53.49	68.20	-14.71	peak



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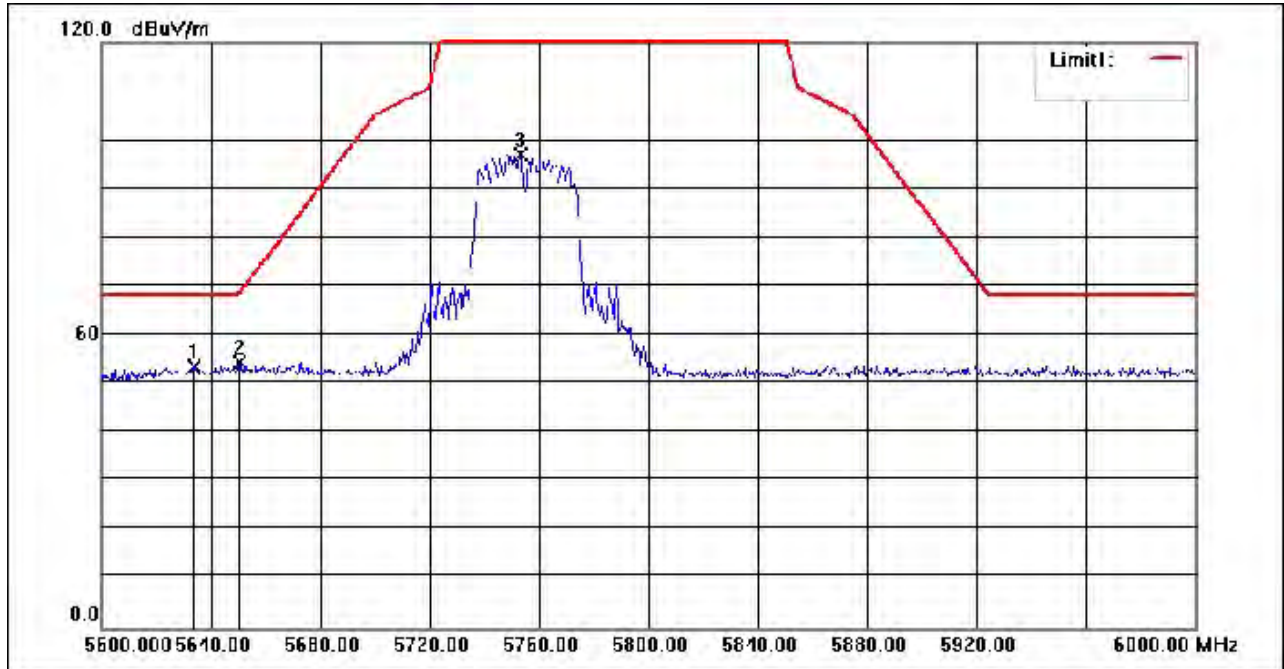
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Compliance Certification Services (Kunshan) Inc.

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5634.000	62.71	-9.22	53.49	68.20	-14.71	peak
2	5650.400	63.68	-9.17	54.51	68.50	-13.99	peak
3	5753.200	106.00	-8.84	97.16	135.00	-37.84	peak



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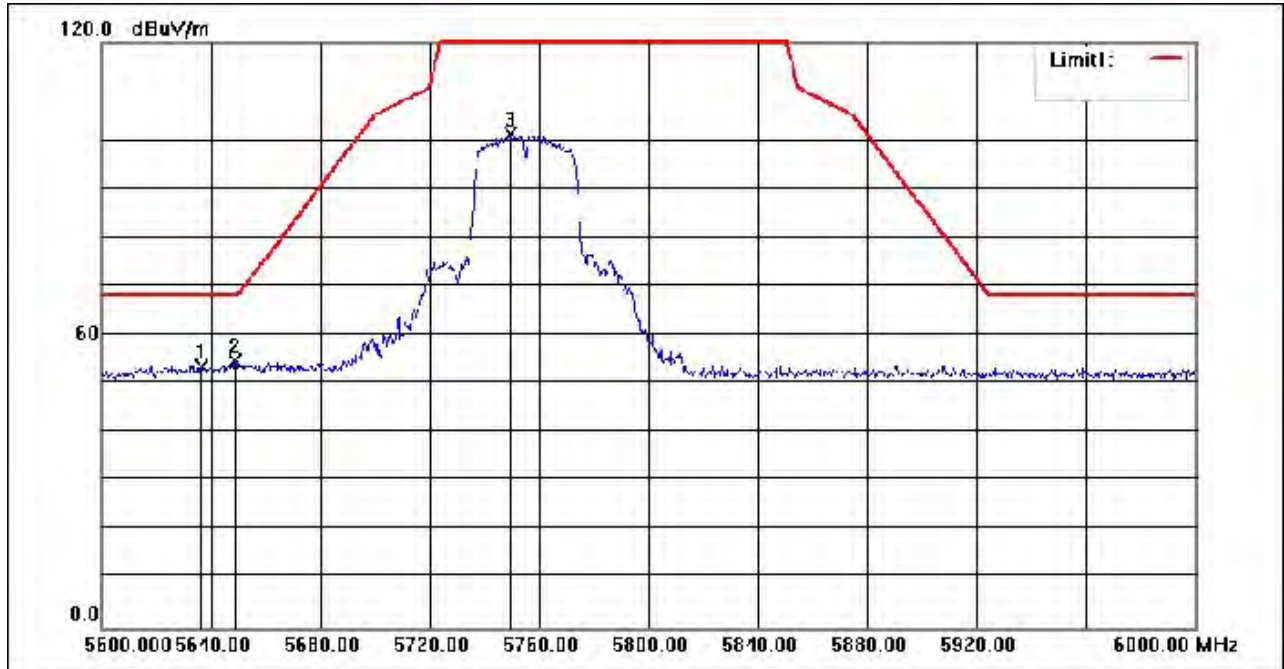
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5636.400	62.89	-9.21	53.68	68.20	-14.52	peak
2	5648.800	63.85	-9.18	54.67	68.20	-13.53	peak
3	5749.600	110.00	-8.85	101.15	135.00	-33.85	peak



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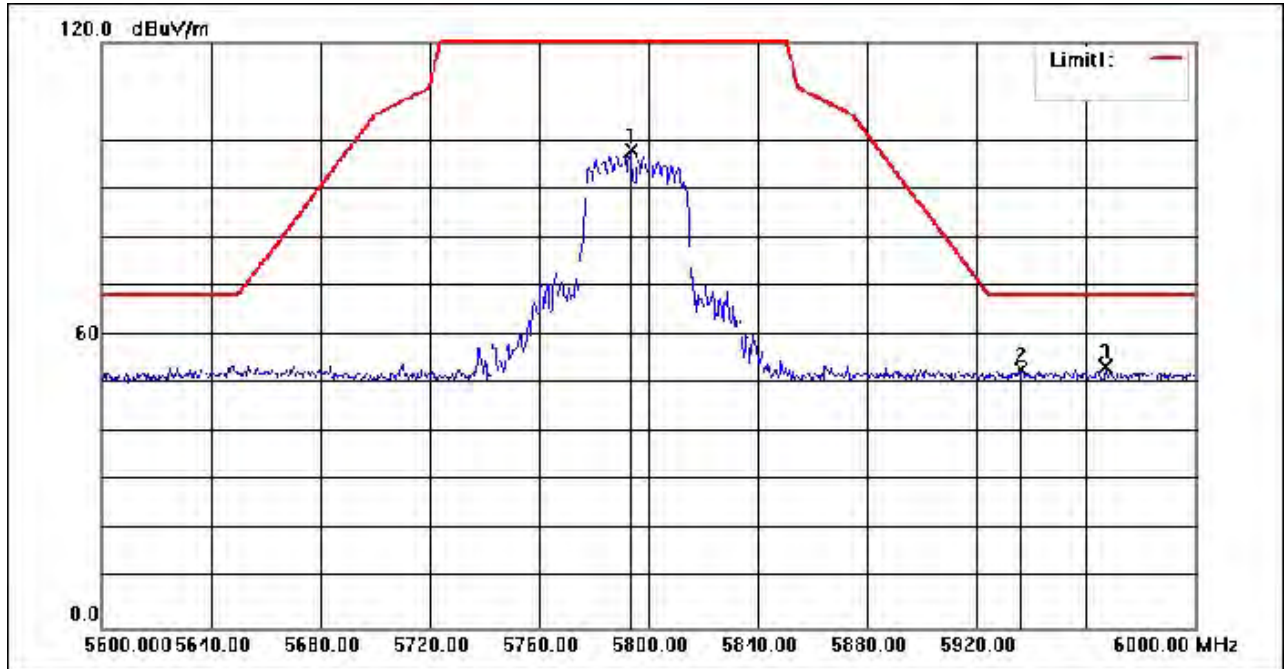
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5793.600	106.64	-8.71	97.93	135.00	-37.07	peak
2	5936.400	61.16	-8.08	53.08	68.20	-15.12	peak
3	5967.200	61.49	-7.95	53.54	68.20	-14.66	peak



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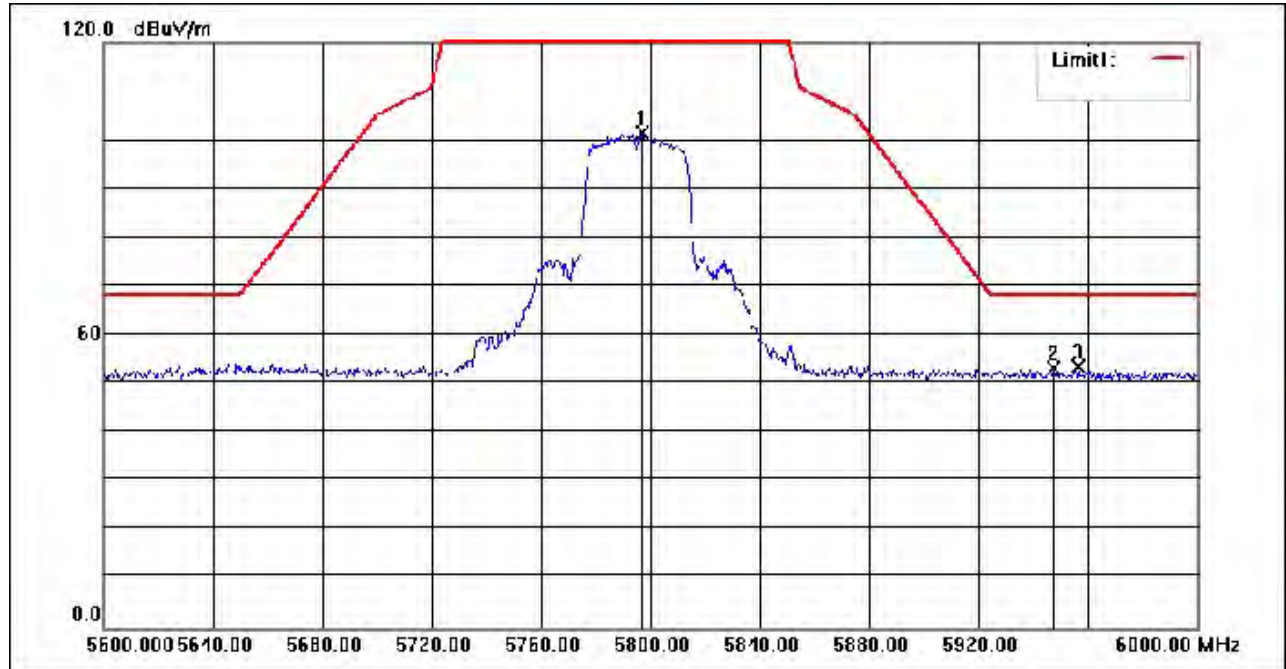
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.200	110.17	-8.70	101.47	135.00	-33.53	peak
2	5947.600	61.19	-8.03	53.16	68.20	-15.04	peak
3	5956.400	61.51	-7.99	53.52	68.20	-14.68	peak



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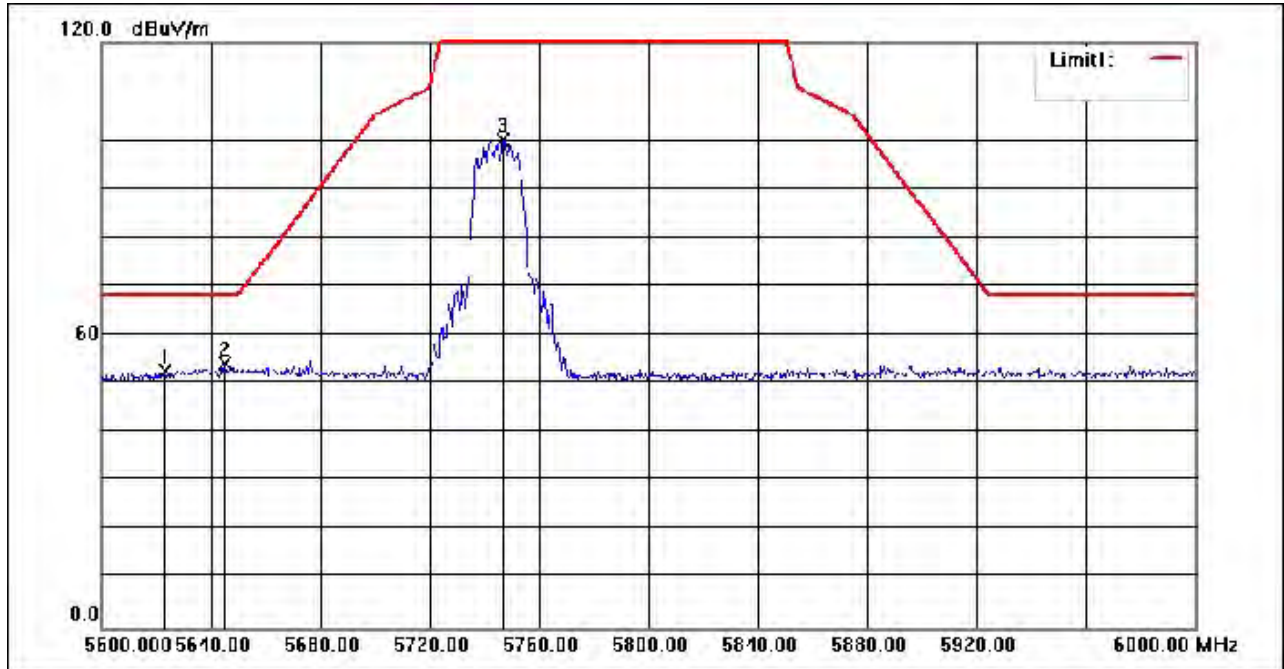
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5623.200	61.90	-9.26	52.64	68.20	-15.56	peak
2	5644.800	63.24	-9.18	54.06	68.20	-14.14	peak
3	5746.800	108.82	-8.86	99.96	135.00	-35.04	peak



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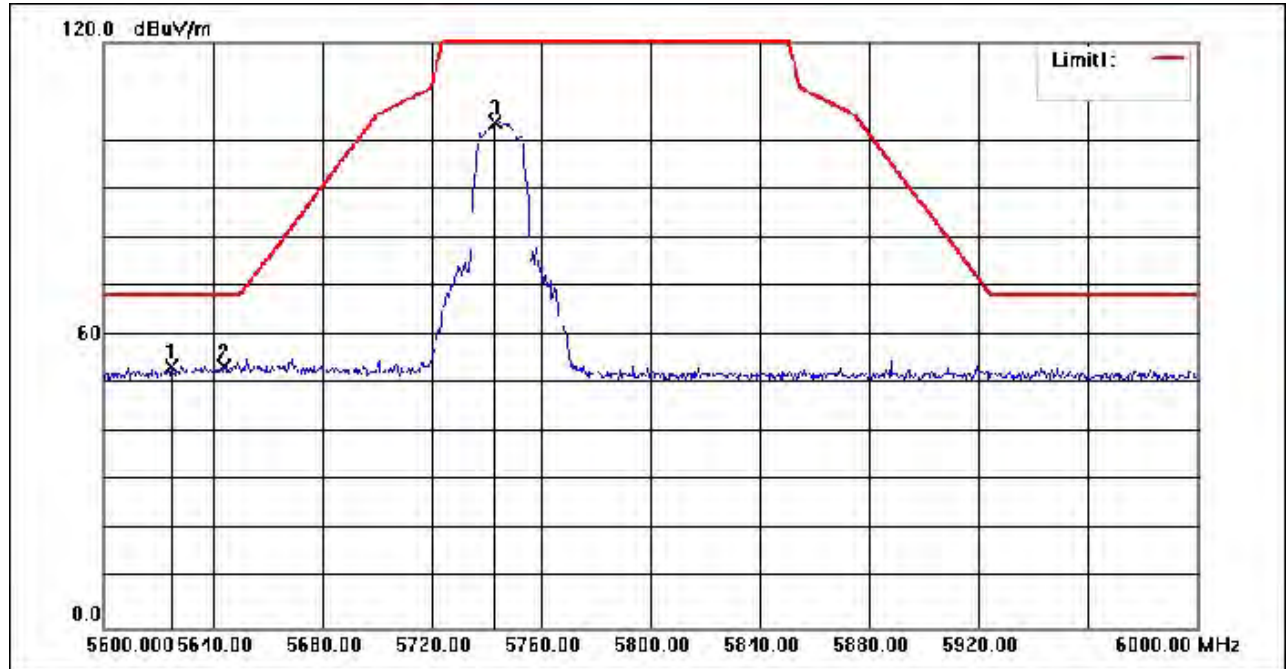
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.800	62.85	-9.25	53.60	68.20	-14.60	peak
2	5644.000	62.87	-9.19	53.68	68.20	-14.52	peak
3	5743.200	112.65	-8.87	103.78	135.00	-31.22	peak



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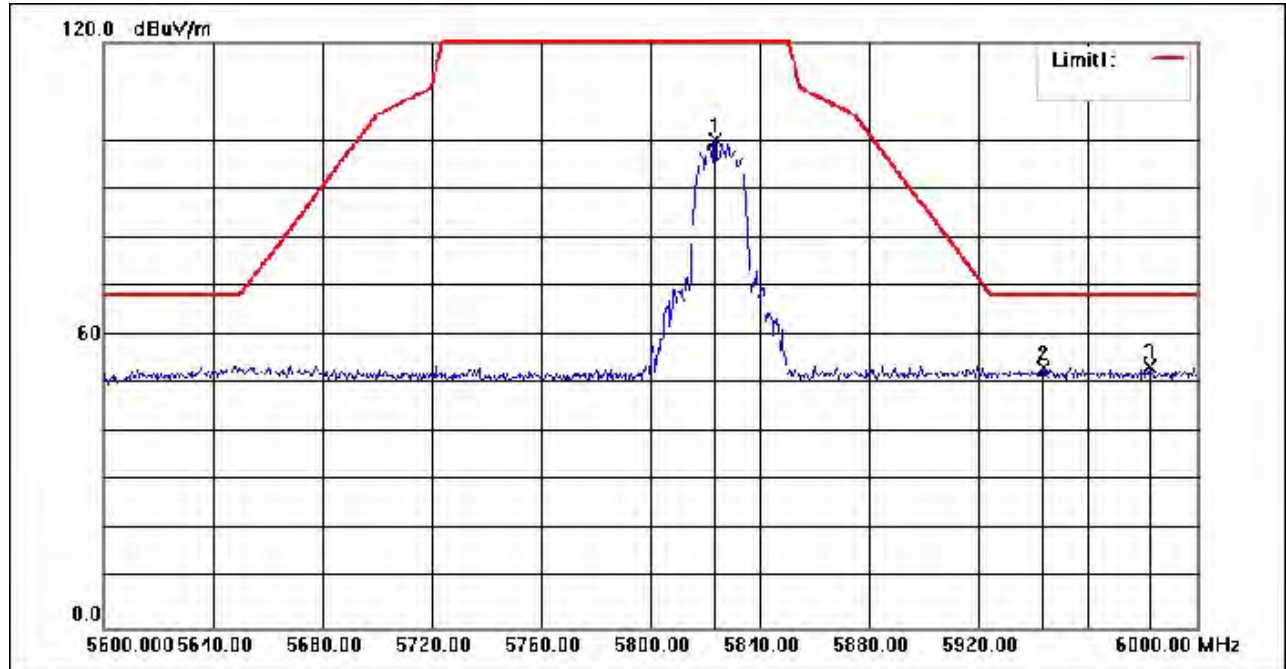
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.600	108.50	-8.58	99.92	135.00	-35.08	peak
2	5943.600	61.34	-8.06	53.28	68.20	-14.92	peak
3	5982.400	61.48	-7.88	53.60	68.20	-14.60	peak



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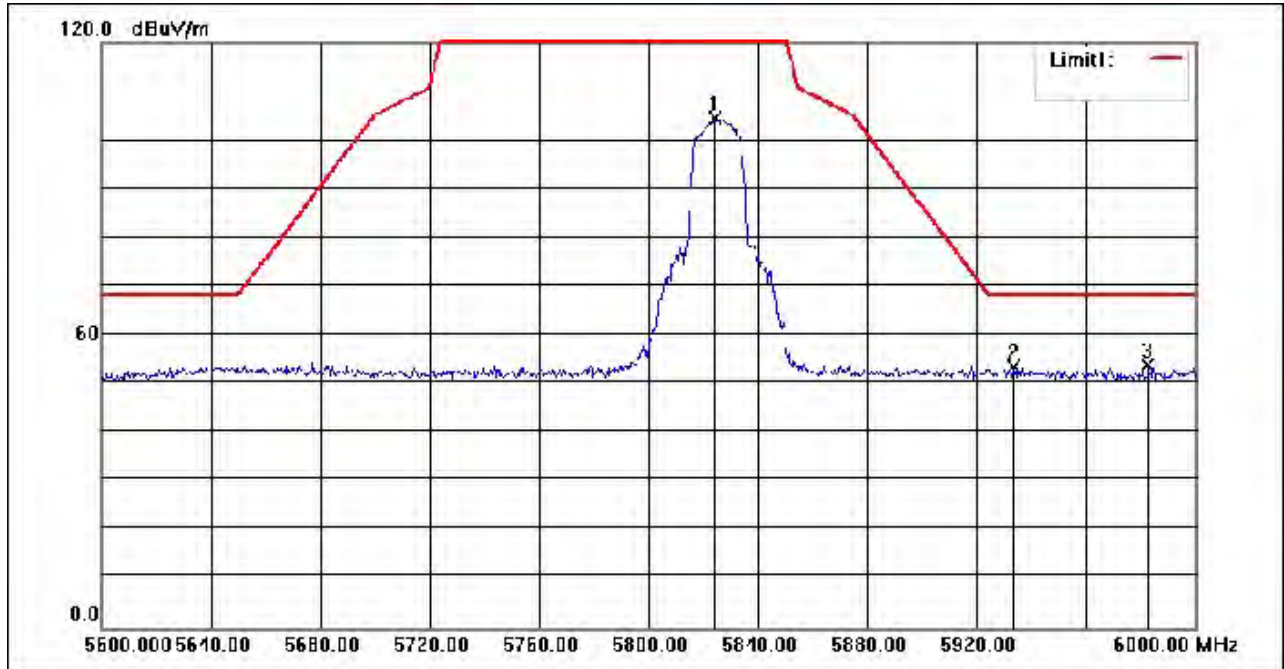
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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5824.400	113.29	-8.59	104.70	135.00	-30.30	peak
2	5933.600	61.56	-8.10	53.46	68.20	-14.74	peak
3	5982.800	61.73	-7.88	53.85	68.20	-14.35	peak



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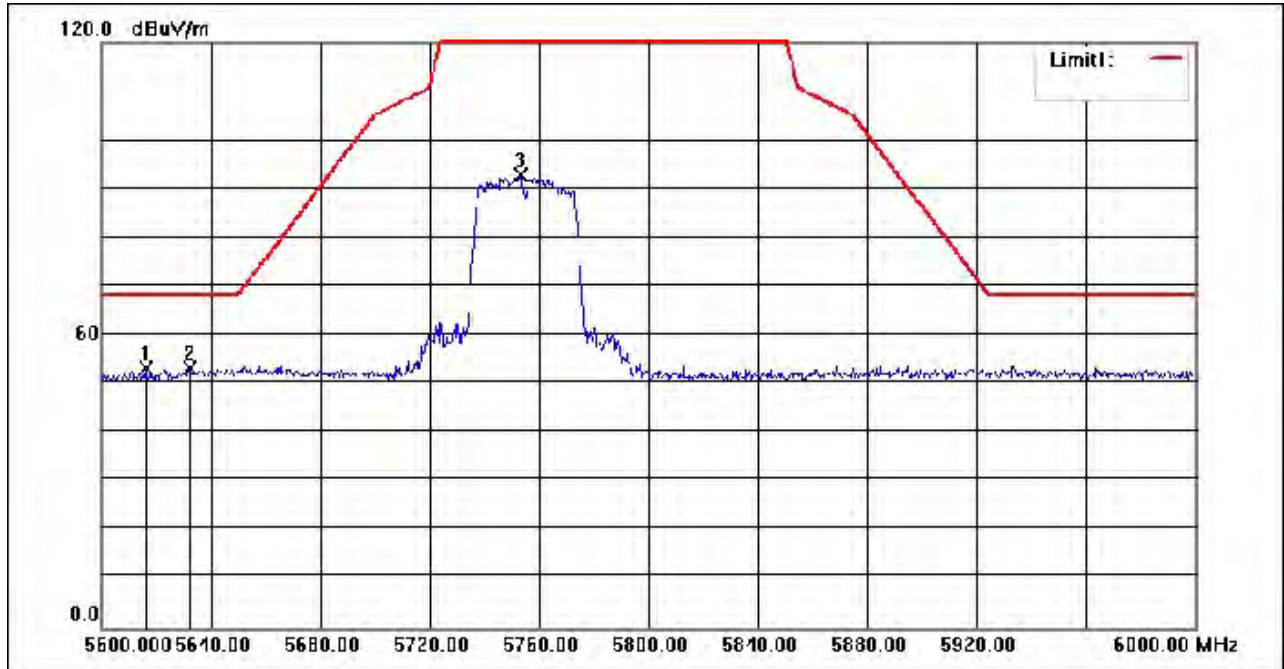
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.000	62.47	-9.28	53.19	68.20	-15.01	peak
2	5632.000	62.40	-9.23	53.17	68.20	-15.03	peak
3	5753.200	101.72	-8.84	92.88	135.00	-42.12	peak



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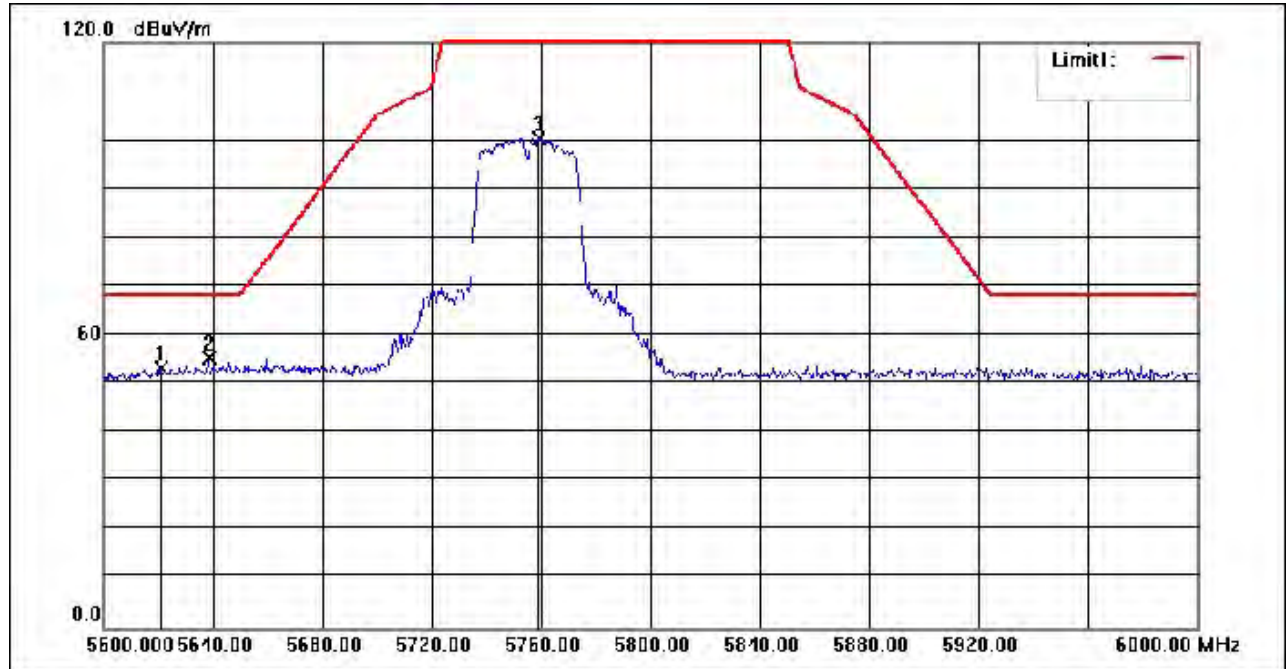
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5620.800	62.50	-9.27	53.23	68.20	-14.97	peak
2	5638.400	64.57	-9.21	55.36	68.20	-12.84	peak
3	5759.200	109.23	-8.82	100.41	135.00	-34.59	peak



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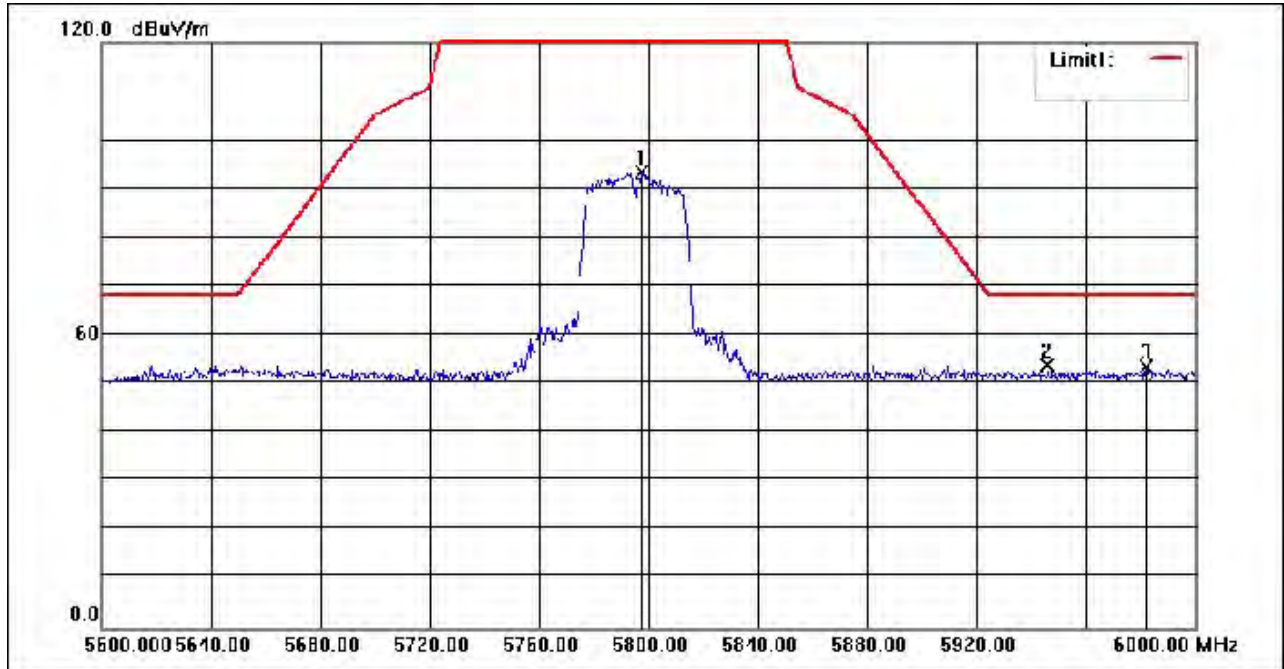
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.600	102.11	-8.70	93.41	135.00	-41.59	peak
2	5946.000	61.95	-8.04	53.91	68.20	-14.29	peak
3	5982.000	61.31	-7.88	53.43	68.20	-14.77	peak



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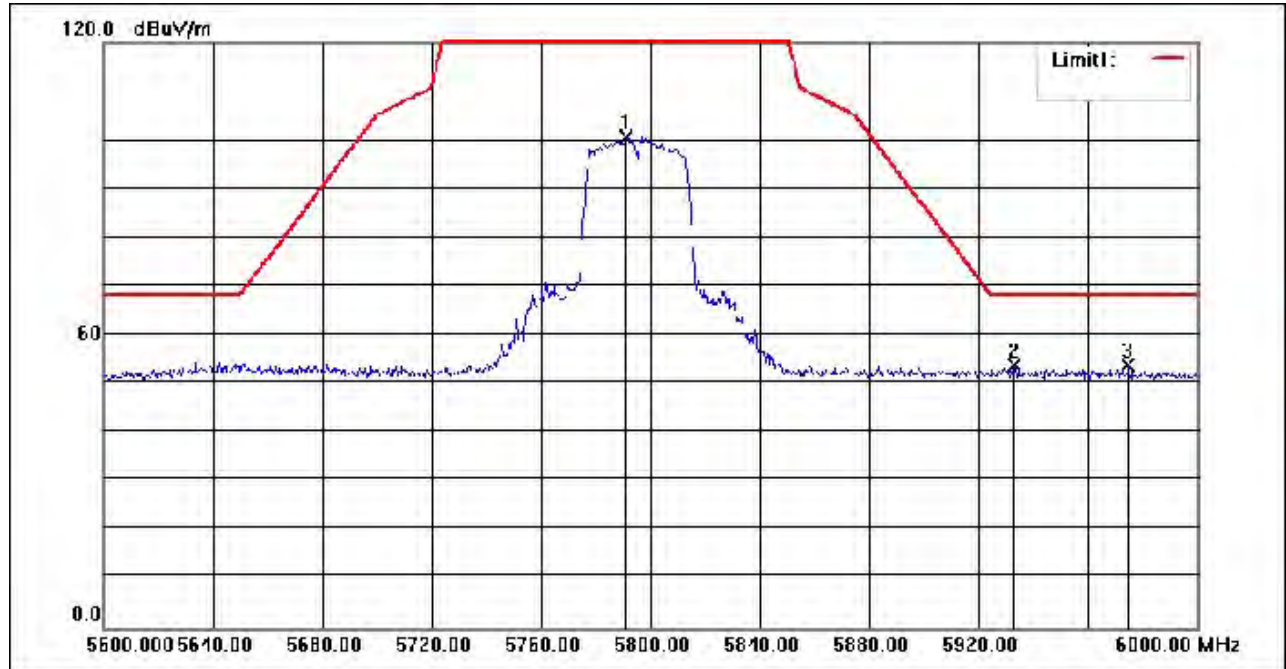
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5791.200	109.34	-8.72	100.62	135.00	-34.38	peak
2	5932.800	62.04	-8.10	53.94	68.20	-14.26	peak
3	5974.800	61.79	-7.91	53.88	68.20	-14.32	peak



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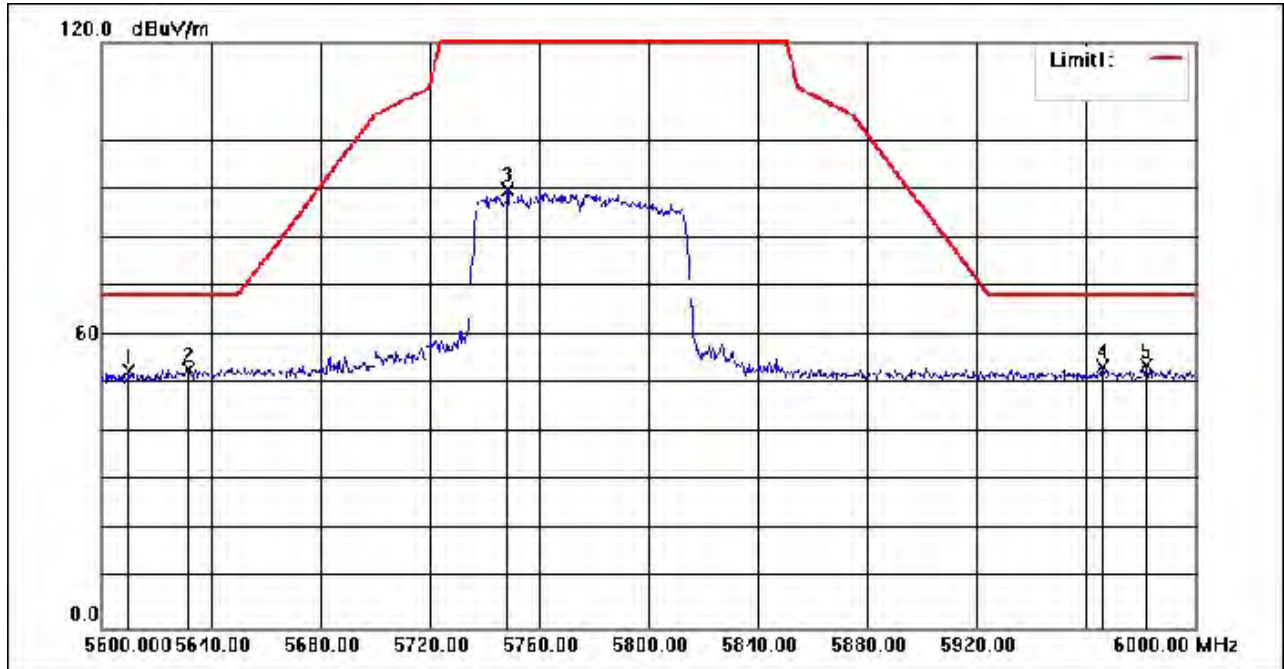
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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5609.600	61.97	-9.30	52.67	68.20	-15.53	peak
2	5631.600	62.26	-9.23	53.03	68.20	-15.17	peak
3	5748.400	98.70	-8.85	89.85	135.00	-45.15	peak
4	5966.000	61.55	-7.95	53.60	68.20	-14.60	peak
5	5982.000	61.70	-7.88	53.82	68.20	-14.38	peak



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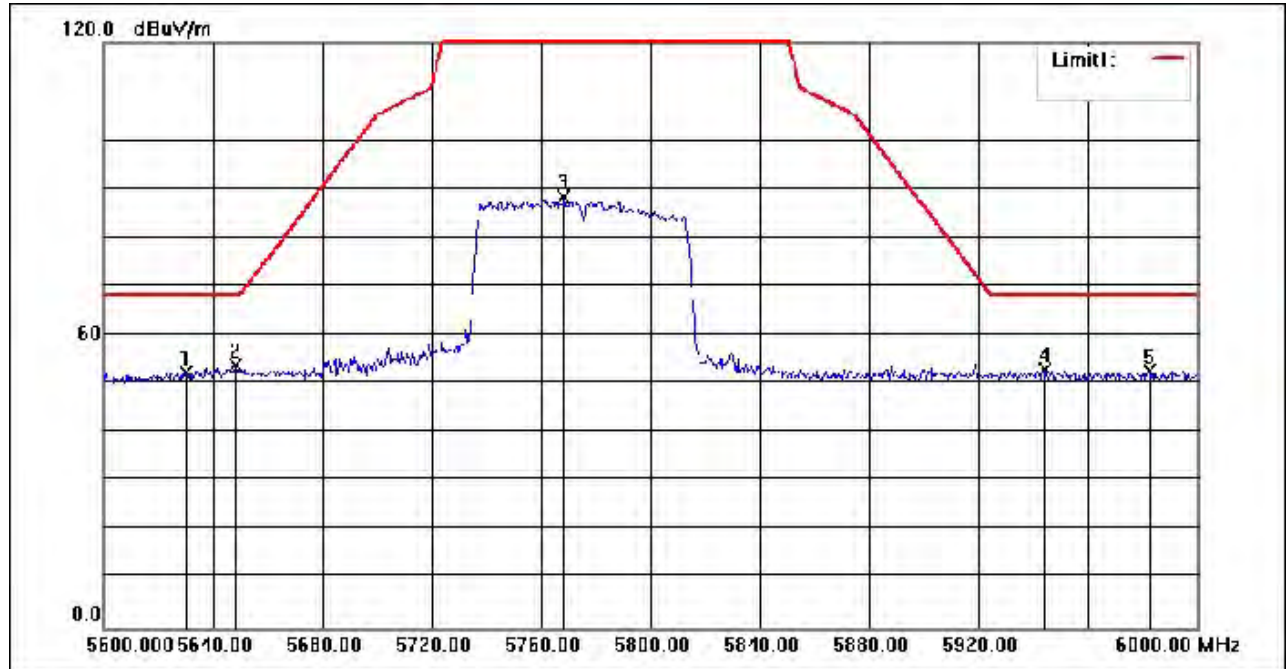
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5630.000	61.73	-9.24	52.49	68.20	-15.71	peak
2	5648.400	62.91	-9.18	53.73	68.20	-14.47	peak
3	5768.400	97.13	-8.79	88.34	135.00	-46.66	peak
4	5944.000	60.88	-8.05	52.83	68.20	-15.37	peak
5	5982.400	60.53	-7.88	52.65	68.20	-15.55	peak



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7.10 Frequency Stability

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

RSS-Gen Section 8.11

Test Method: ANSI C63.10 (2013) Section 6.8

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 30.3 % RH Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	02	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	03	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	04	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.



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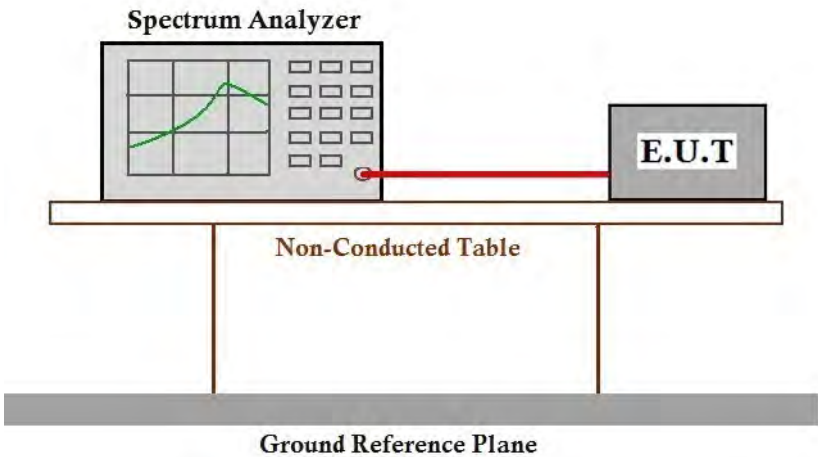
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.11 Channel Move Time

Test Requirement 47CFR Part 15, Subpart E 15.407

RSS-247 Issue 2, February 2017

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

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

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

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

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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C

Humidity: 30.1 % RH

Atmospheric Pressure: 1010 mbar



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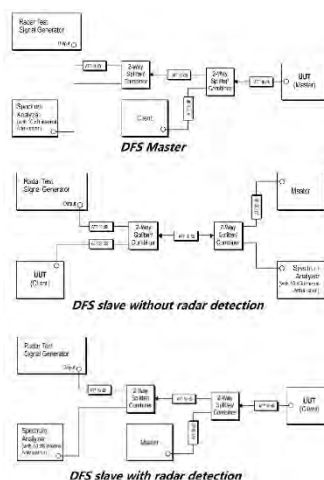
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7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-2A) Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	03	Charge + TX mode (U-NII-2C) Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



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7.11.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.12 Channel Closing Transmission Time

Test Requirement 47CFR Part 15, Subpart E 15.407

RSS-247 Issue 2, February 2017

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: 25.8 °C

Humidity: 30.1 % RH

Atmospheric Pressure: 1010 mbar



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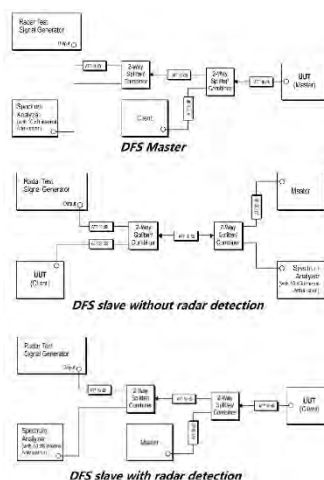
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7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-2A) Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	03	Charge + TX mode (U-NII-2C) Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram



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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 Radiated Emissions (Below 1GHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
RSS-247 Section 3.3 & RSS-Gen Section 8.9

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 58.6 % RH Atmospheric Pressure: 1010 mbar

7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Pre test	02	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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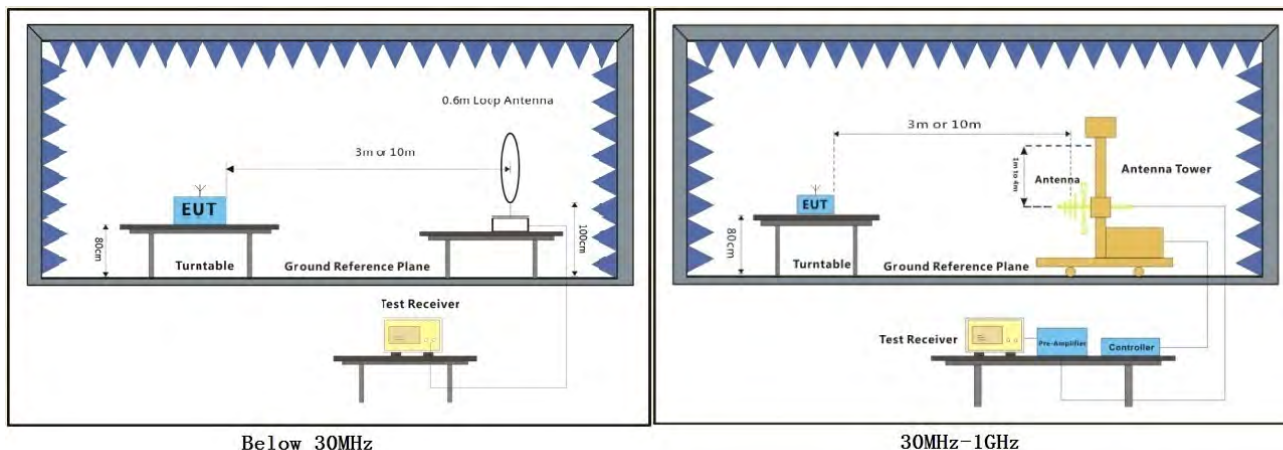
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Pre test	03	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Pre test	04	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.13.3 Test Setup Diagram



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7.13.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 01; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.5306	1.76	25.18	26.94	40.00	-13.06	100	26	QP
2	164.9075	8.64	17.23	25.87	43.50	-17.63	201	2	QP
3	226.0994	9.72	17.15	26.87	46.00	-19.13	101	26	QP
4	336.0352	15.18	21.36	36.54	46.00	-9.46	100	206	QP
5	383.9318	20.26	22.60	42.86	46.00	-3.14	200	252	QP
6	768.7482	9.36	28.09	37.45	46.00	-8.55	200	98	QP



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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	34.3964	1.34	24.80	26.14	40.00	-13.86	100	30	QP
2	56.5929	13.01	15.63	28.64	40.00	-11.36	100	360	QP
3	114.9169	9.62	19.02	28.64	43.50	-14.86	100	53	QP
4	224.5193	8.39	16.98	25.37	46.00	-20.63	200	29	QP
5	279.0436	8.41	20.33	28.74	46.00	-17.26	131	102	QP
6	383.9318	11.55	22.60	34.15	46.00	-11.85	201	335	QP



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7.14 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

7.14.1 E.U.T. Operation

Operating Environment:
Temperature: 21.8 °C Humidity: 58.7 % RH Atmospheric Pressure: 1010 mbar

7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	02	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	04	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.



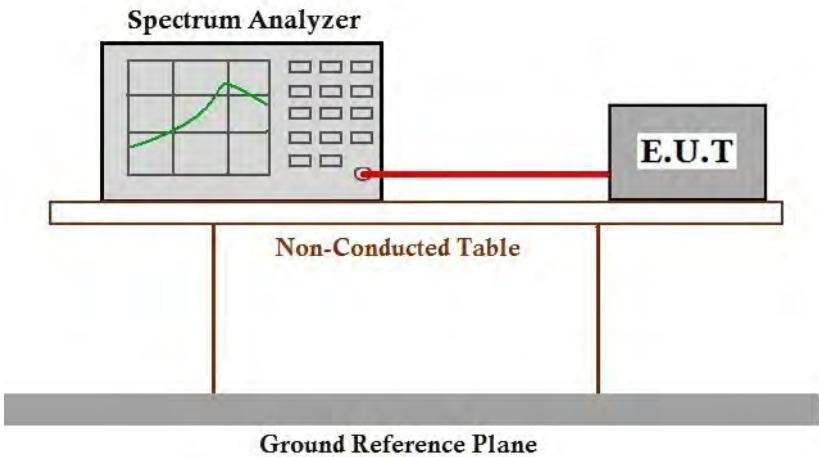
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7.14.3 Test Setup Diagram



7.14.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2210001894AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2210001894AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.394	1.455	95.81	0.19	0.03
		5200	1.393	1.455	95.74	0.19	0.03
		5240	1.393	1.455	95.74	0.19	0.03
		5260	1.393	1.454	95.80	0.19	0.03
		5300	1.393	1.455	95.74	0.19	0.03
		5320	1.393	1.455	95.74	0.19	0.03
		5500	1.392	1.454	95.74	0.19	0.07
		5580	1.393	1.455	95.74	0.19	0.03
		5700	1.393	1.454	95.80	0.19	0.03
		5745	1.393	1.454	95.80	0.19	0.03
		5785	1.393	1.454	95.80	0.19	0.03
		5825	1.392	1.454	95.74	0.19	0.07
802.11n (HT20)	MIMO	5180	1.301	1.399	92.99	0.32	0.03
		5200	1.301	1.398	93.06	0.31	0.03
		5240	1.301	1.399	92.99	0.32	0.03
		5260	1.301	1.398	93.06	0.31	0.03
		5300	1.301	1.399	92.99	0.32	0.03
		5320	1.301	1.399	92.99	0.32	0.03
		5500	1.301	1.399	92.99	0.32	0.06
		5580	1.300	1.398	92.99	0.32	0.03
		5700	1.301	1.399	92.99	0.32	0.03
		5745	1.301	1.398	93.06	0.31	0.03
		5785	1.300	1.398	92.99	0.32	0.03
		5825	1.300	1.398	92.99	0.32	0.04
802.11n (HT40)	MIMO	5190	0.649	0.747	86.88	0.61	0.04
		5230	0.649	0.746	87.00	0.60	0.04
		5270	0.649	0.746	87.00	0.60	0.04



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		5310	0.649	0.746	87.00	0.60	0.03
		5510	0.648	0.746	86.86	0.61	0.04
		5550	0.649	0.747	86.88	0.61	0.04
		5670	0.649	0.746	87.00	0.60	0.04
		5755	0.649	0.746	87.00	0.60	0.04
		5795	0.648	0.746	86.86	0.61	0.04
802.11ac (VHT20)	MIMO	5180	1.313	1.410	93.12	0.31	0.03
		5200	1.312	1.410	93.05	0.31	0.03
		5240	1.313	1.410	93.12	0.31	0.03
		5260	1.313	1.411	93.05	0.31	0.03
		5300	1.312	1.410	93.05	0.31	0.03
		5320	1.313	1.411	93.05	0.31	0.03
		5500	1.313	1.410	93.12	0.31	0.03
		5580	1.314	1.411	93.13	0.31	0.03
		5700	1.313	1.410	93.12	0.31	0.03
		5745	1.313	1.411	93.05	0.31	0.03
		5785	1.313	1.410	93.12	0.31	0.03
		5825	1.313	1.411	93.05	0.31	0.03
802.11ac (VHT40)	MIMO	5190	0.653	0.750	87.07	0.60	0.04
		5230	0.653	0.750	87.07	0.60	0.04
		5270	0.653	0.751	86.95	0.61	0.03
		5310	0.653	0.750	87.07	0.60	0.03
		5510	0.653	0.750	87.07	0.60	0.04
		5550	0.653	0.751	86.95	0.61	0.04
		5670	0.653	0.750	87.07	0.60	0.03
		5755	0.653	0.750	87.07	0.60	0.04
		5795	0.653	0.750	87.07	0.60	0.04
802.11ac (VHT80)	MIMO	5210	0.325	0.422	77.01	1.13	0.06
		5290	0.325	0.422	77.01	1.13	0.03
		5530	0.326	0.423	77.07	1.13	0.03
		5610	0.325	0.422	77.01	1.13	0.01
		5775	0.325	0.422	77.01	1.13	0.03



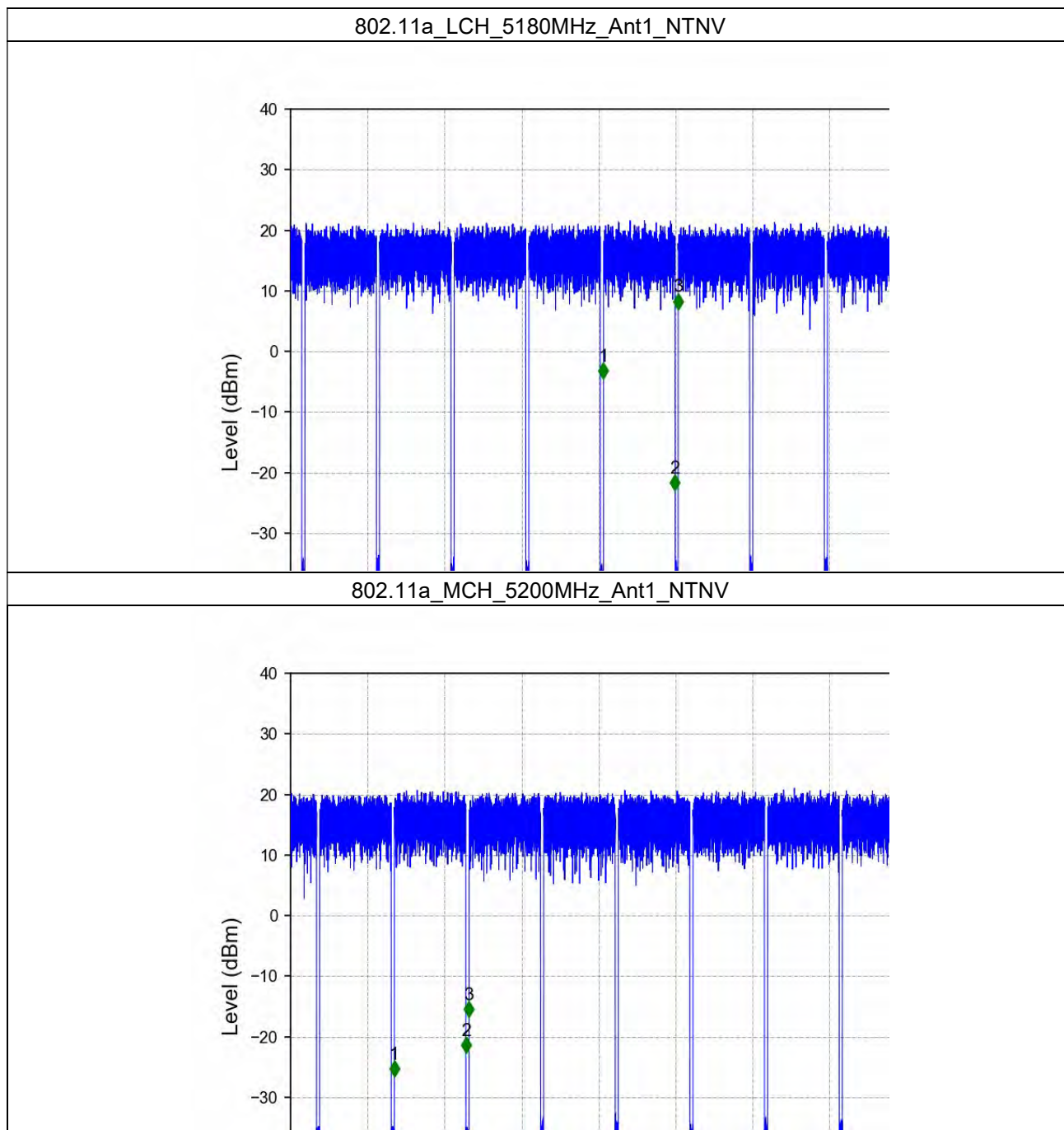
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1.1.2 Test Graph



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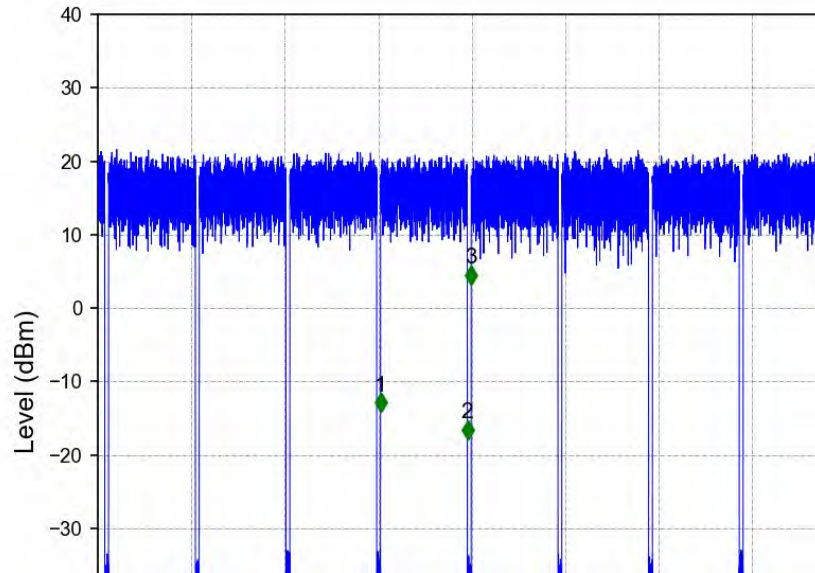
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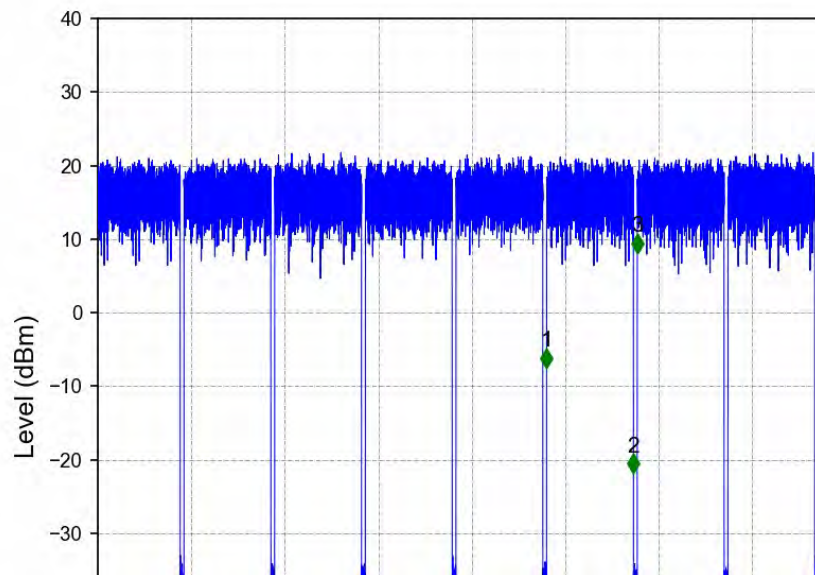
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



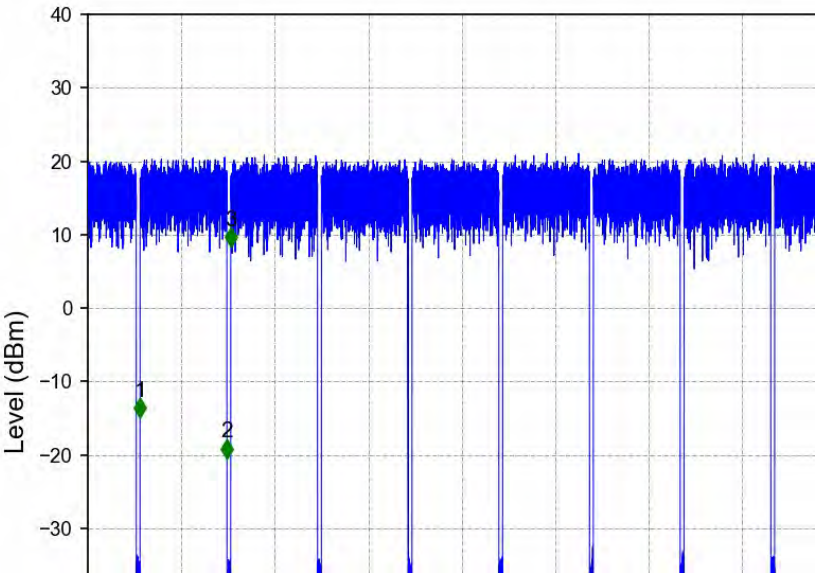
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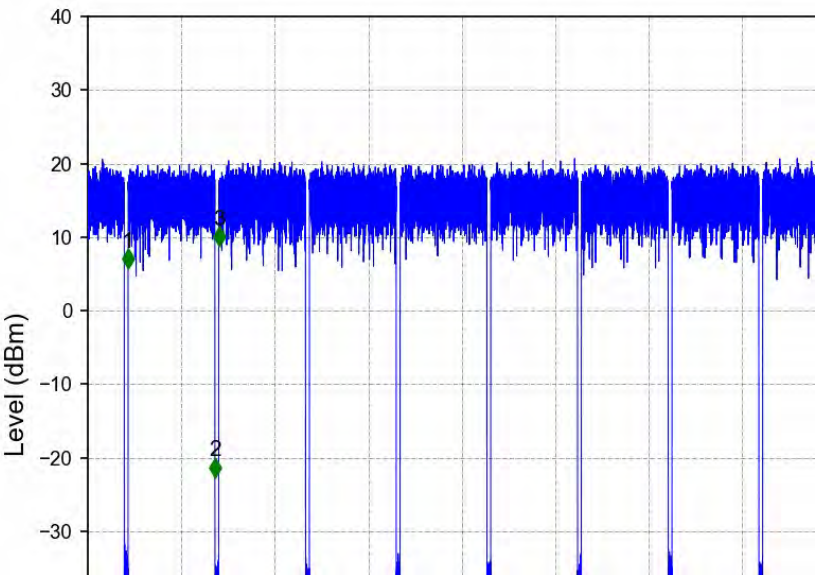
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802.11a_MCH_5300MHz_Ant1_NTNV

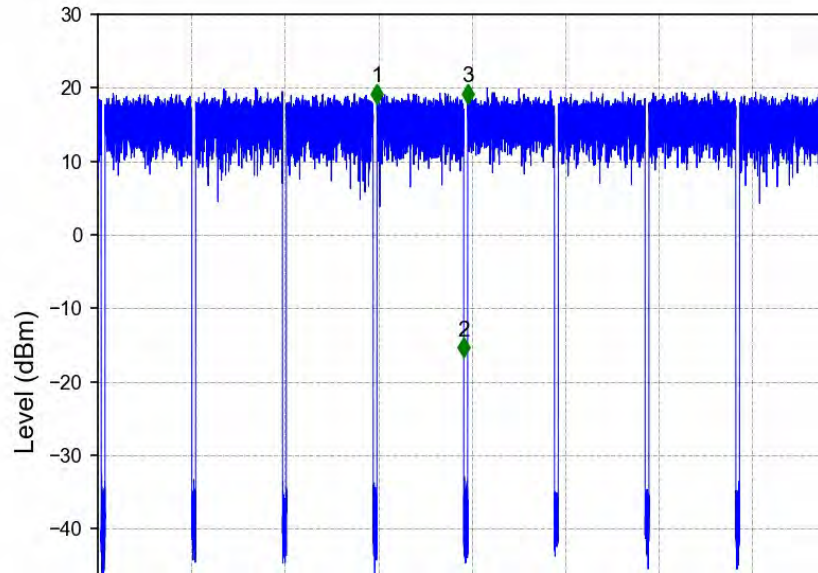


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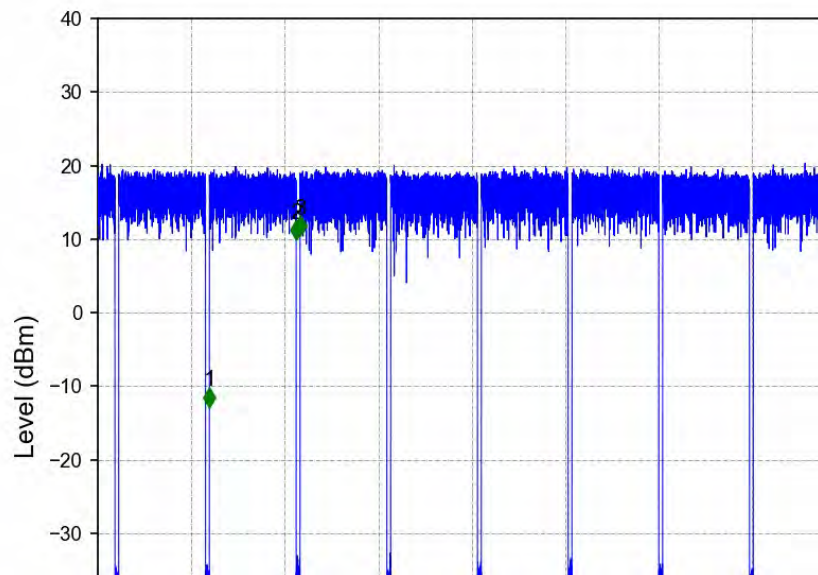


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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



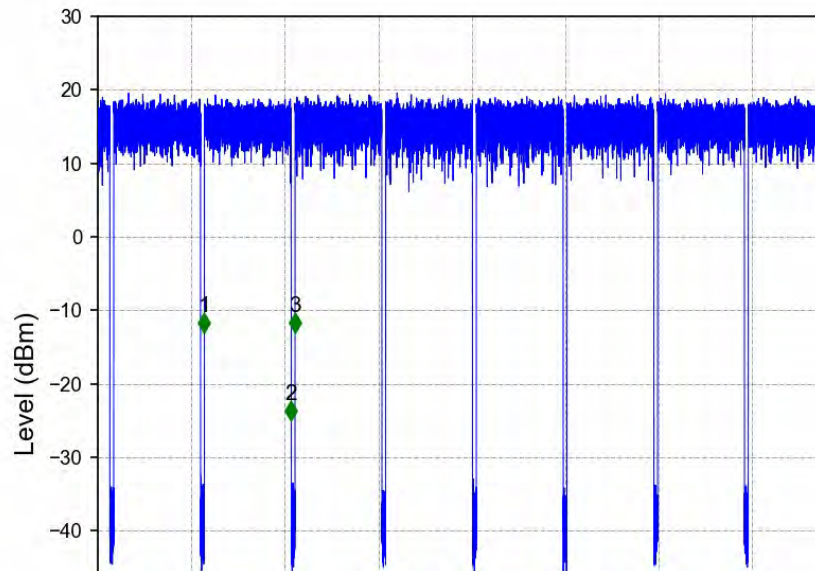
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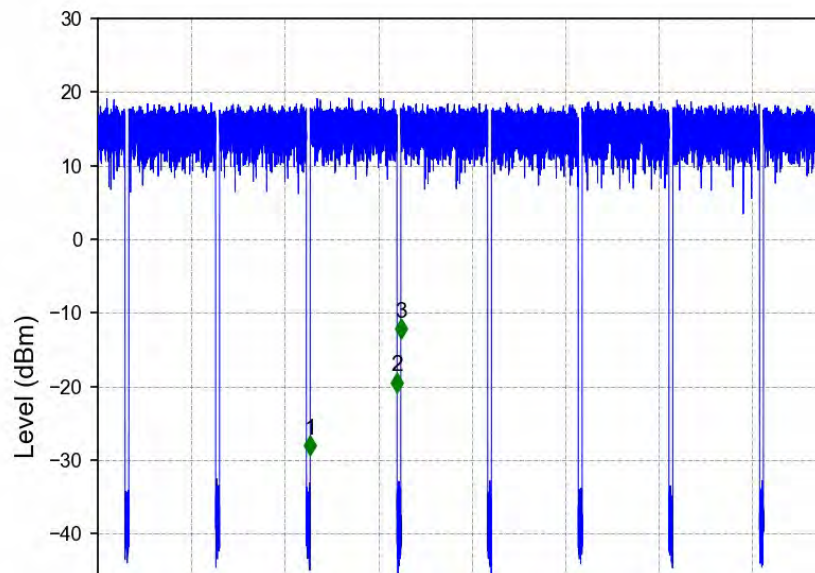
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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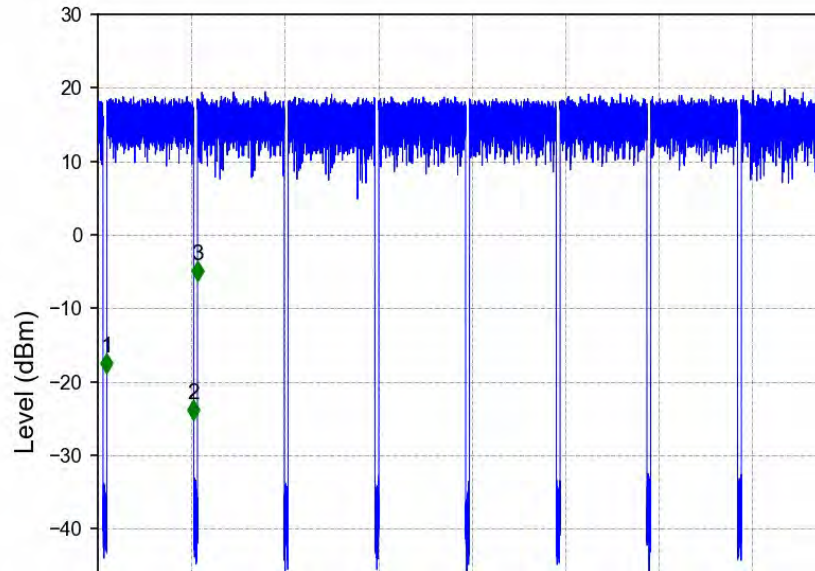
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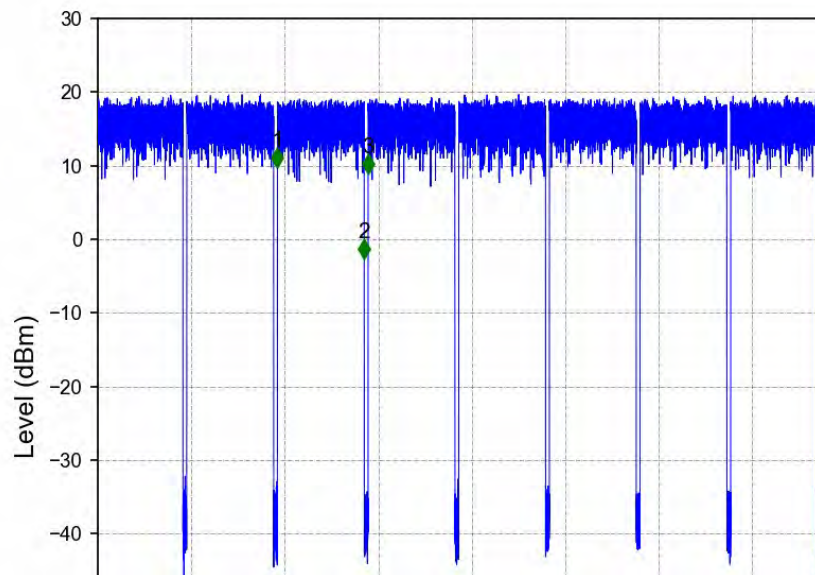
Report No.: KSCR221000189402

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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



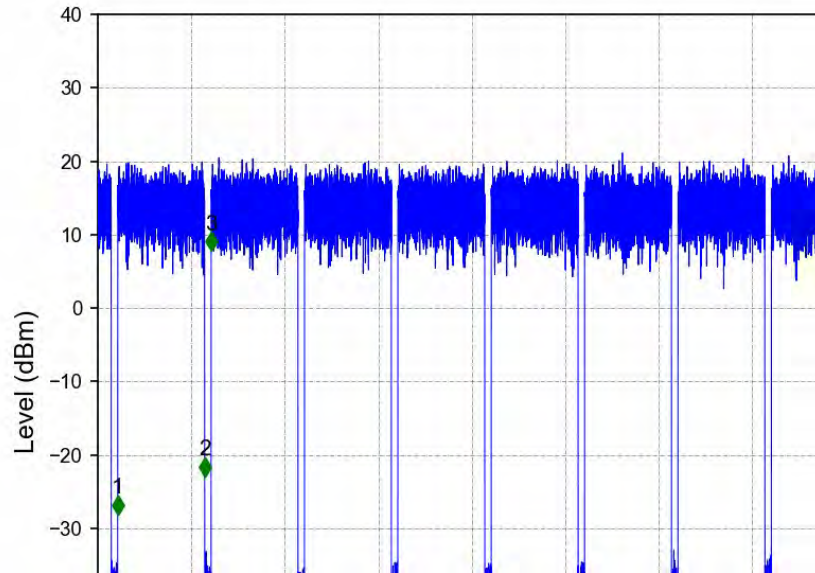
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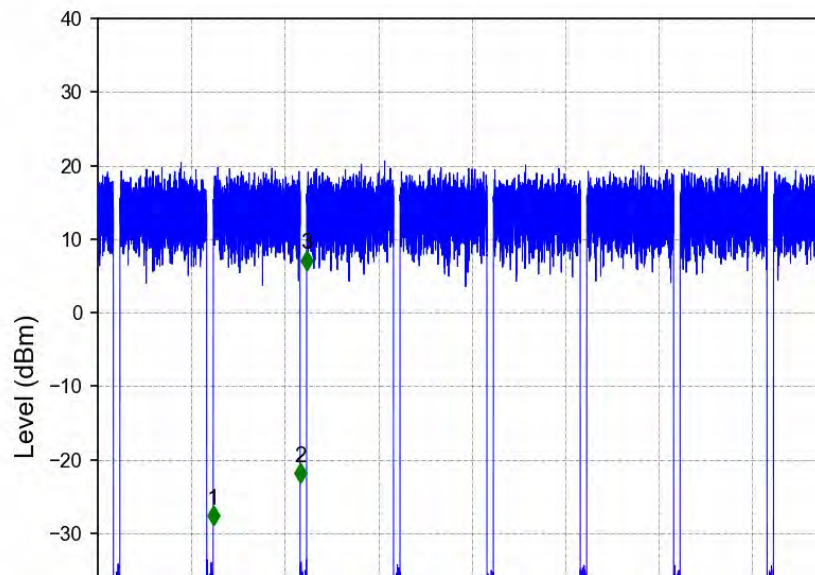
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



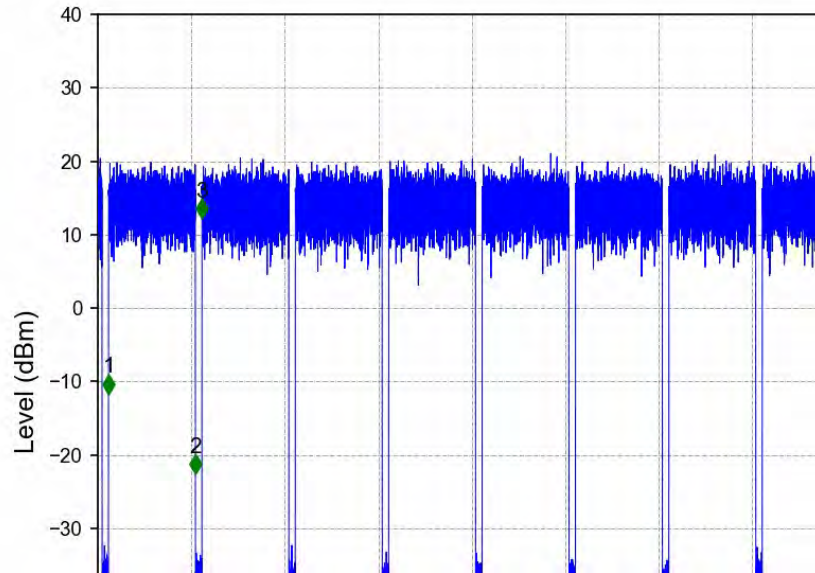
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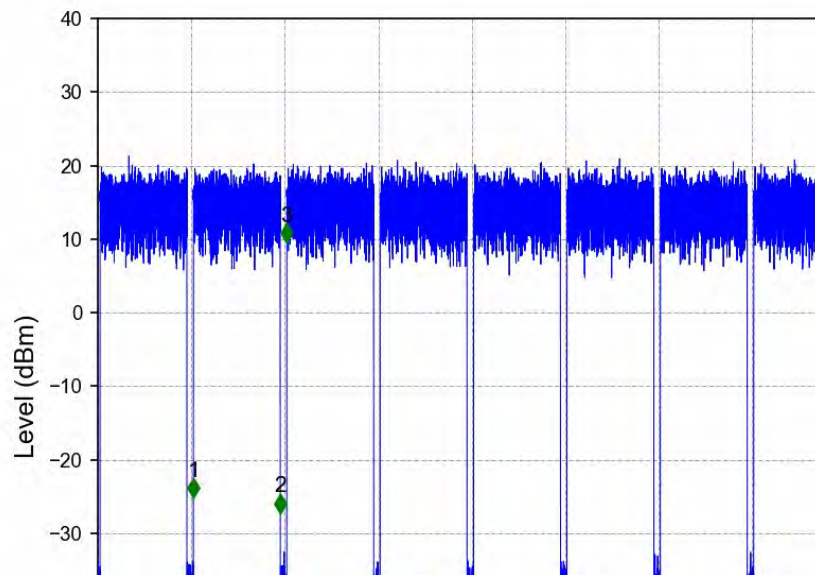
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



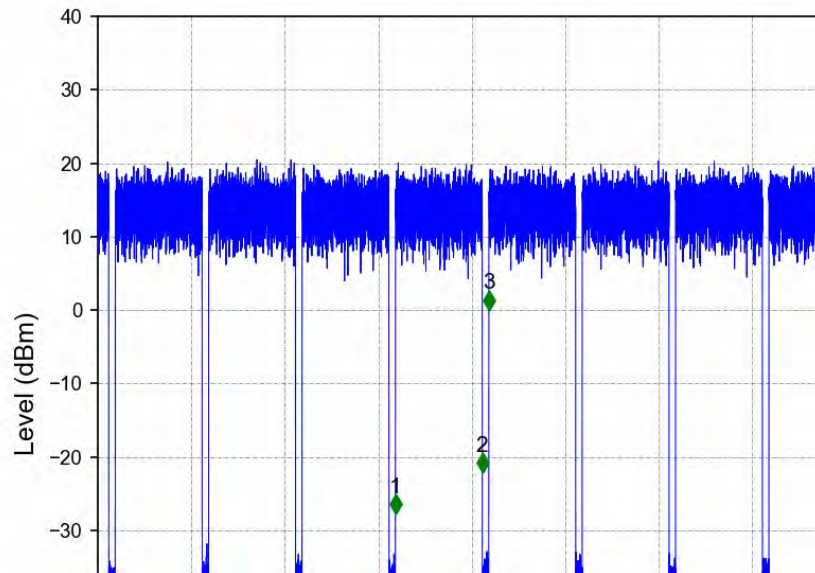
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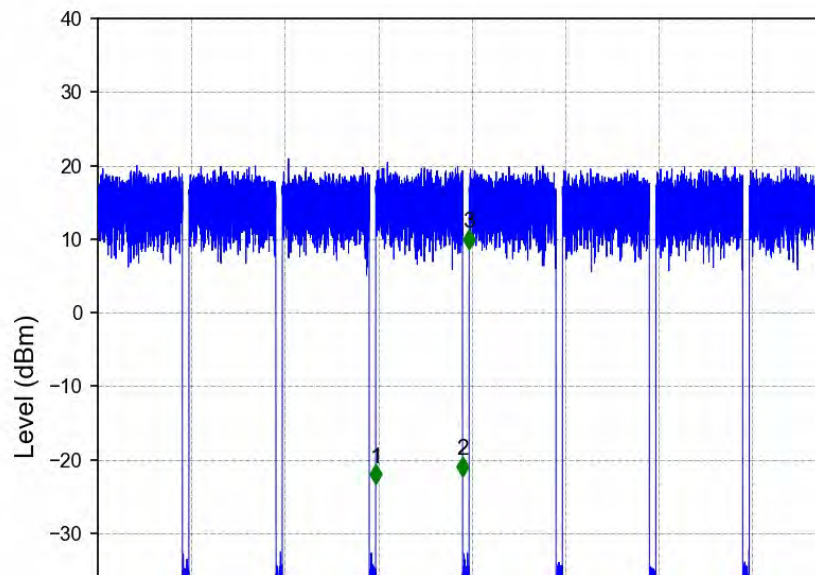
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



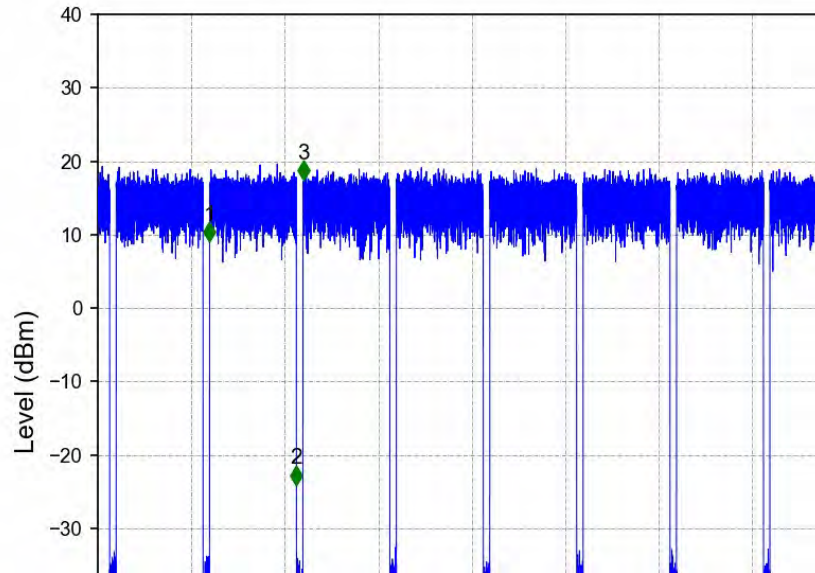
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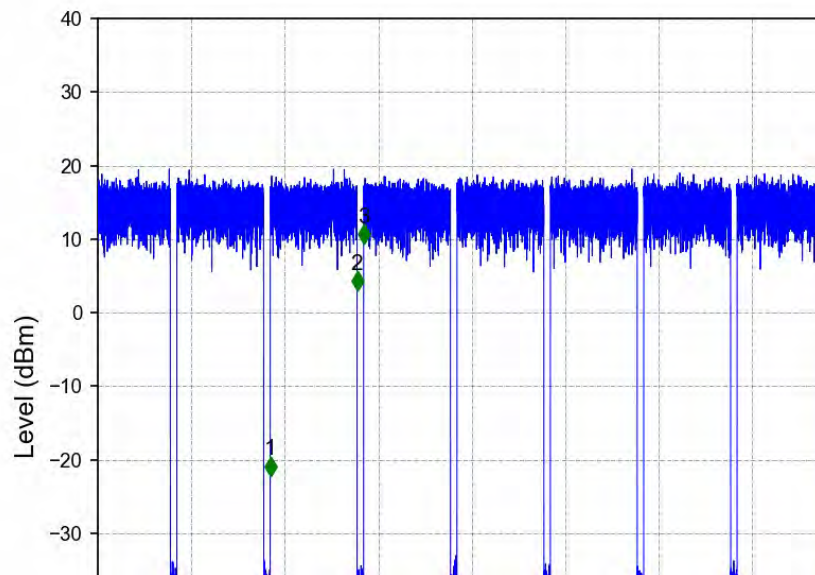
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



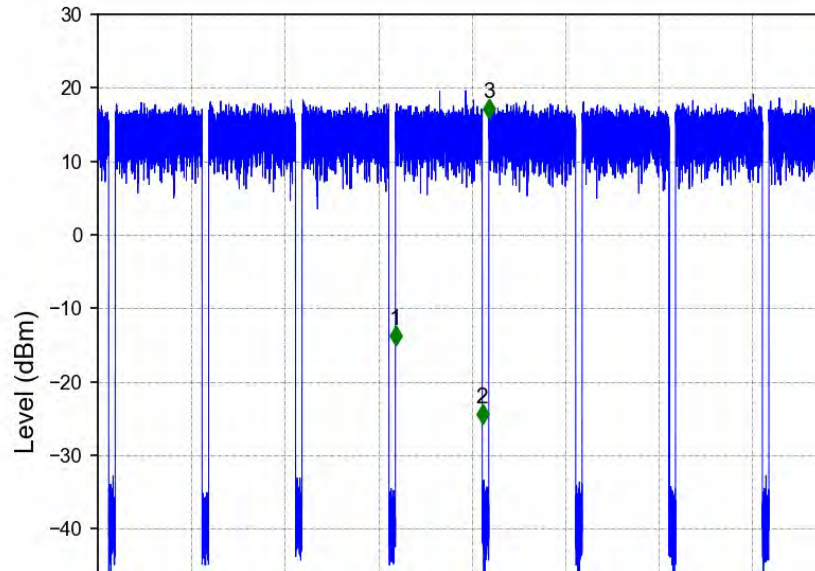
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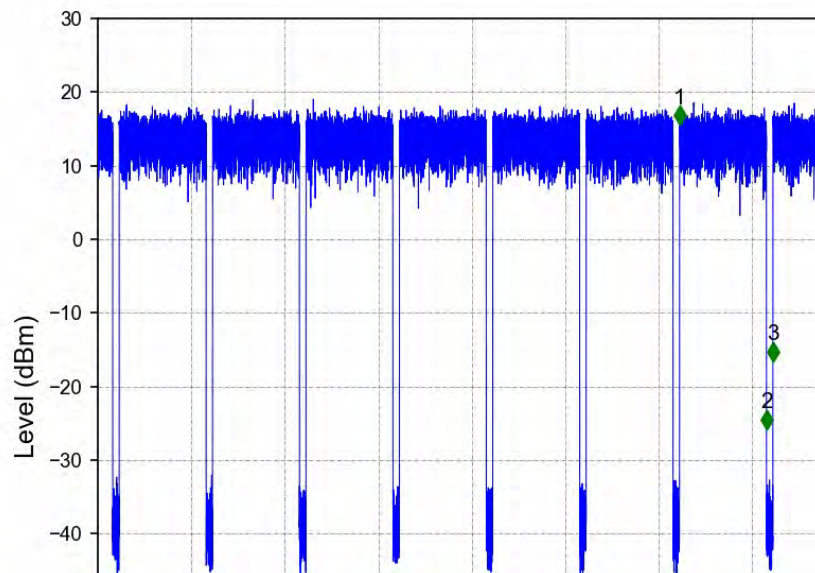
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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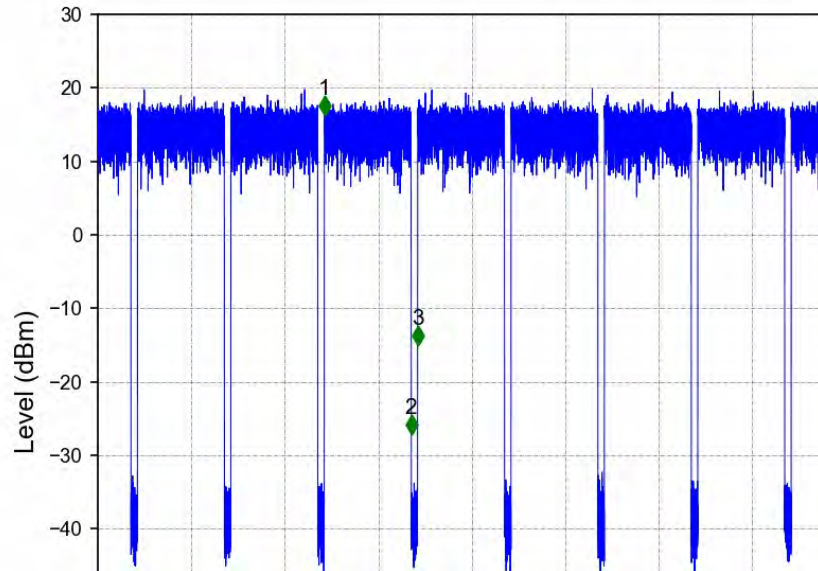
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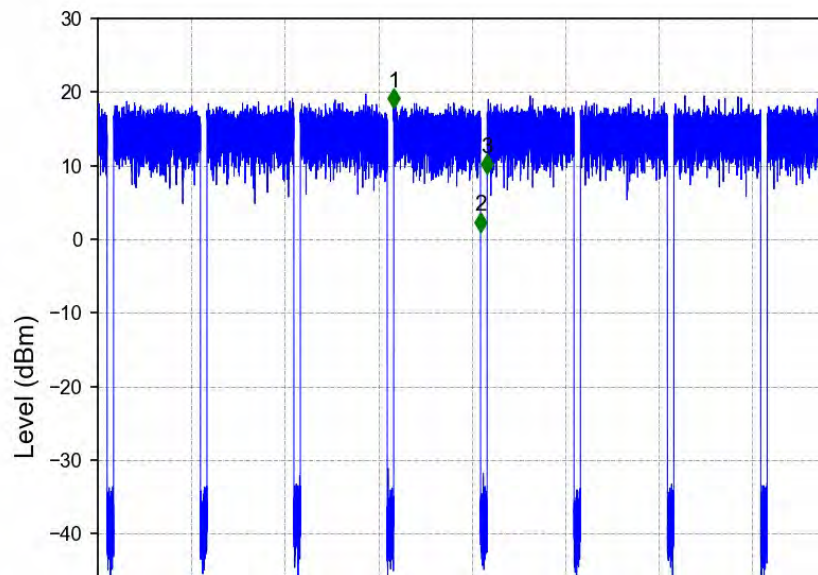
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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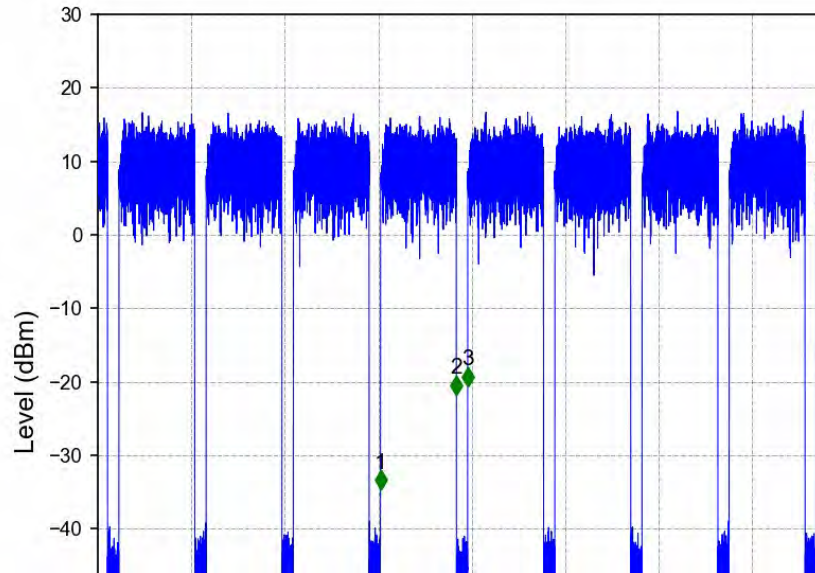
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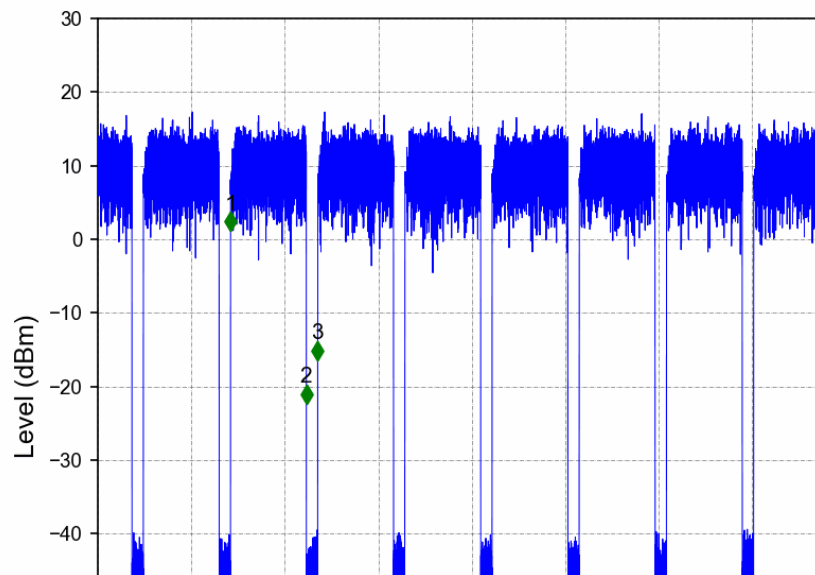
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



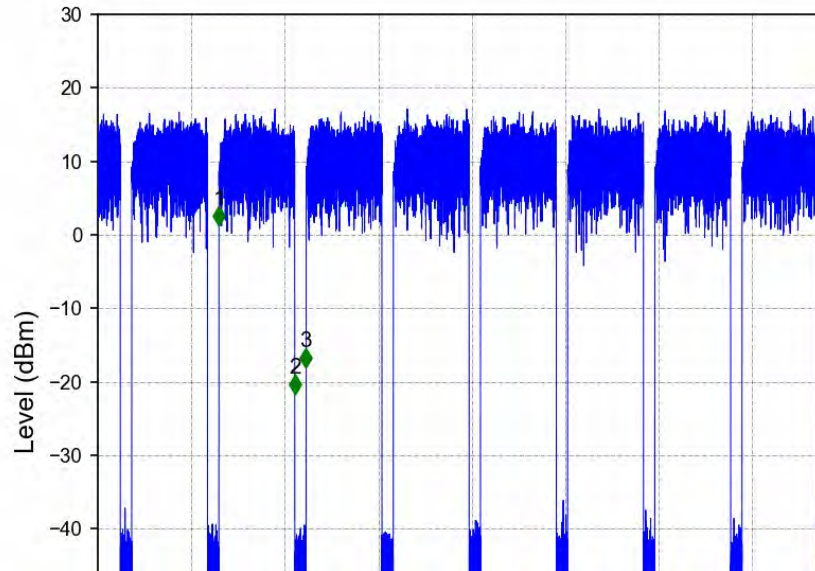
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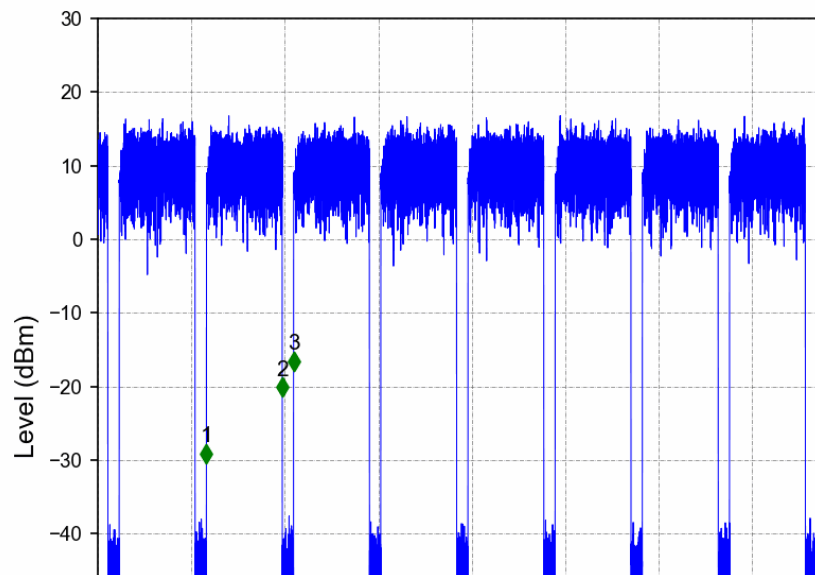
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



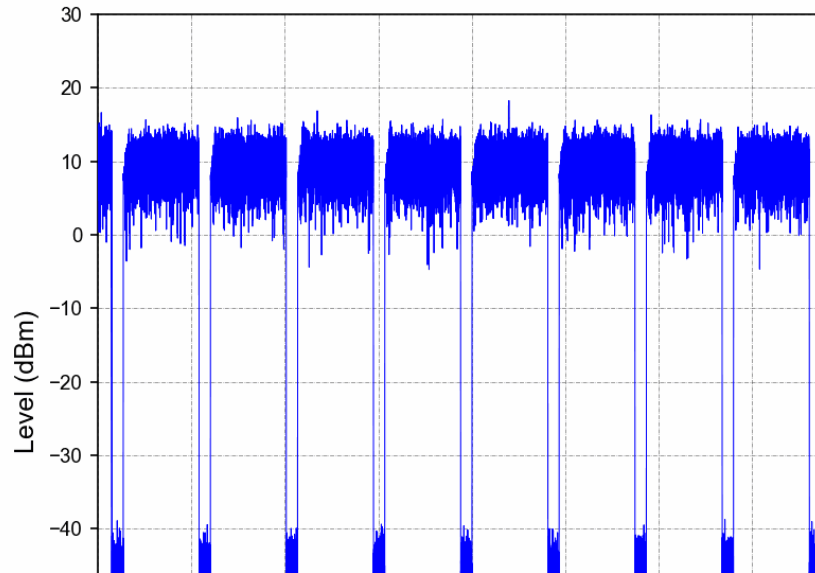
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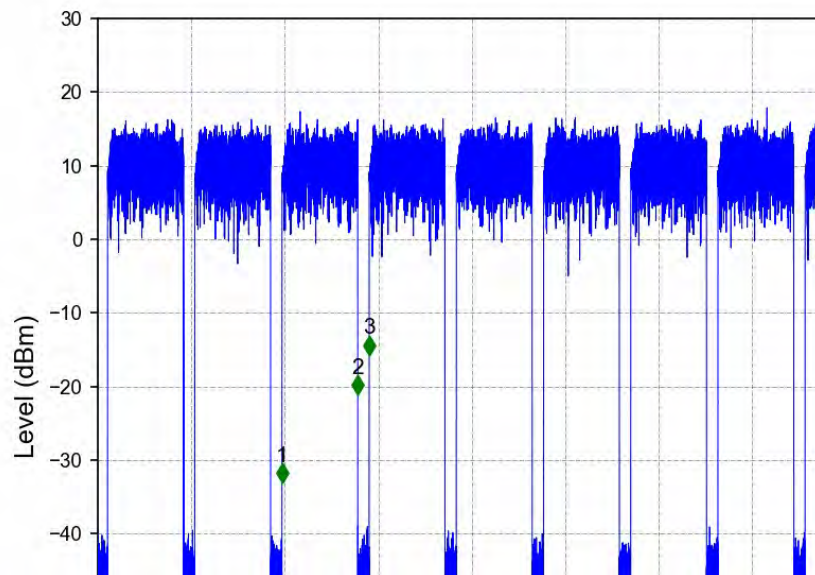
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



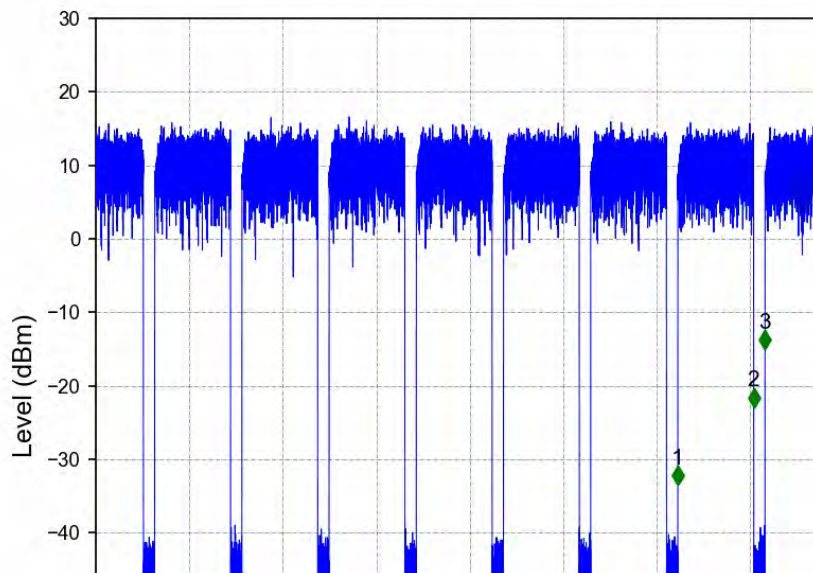
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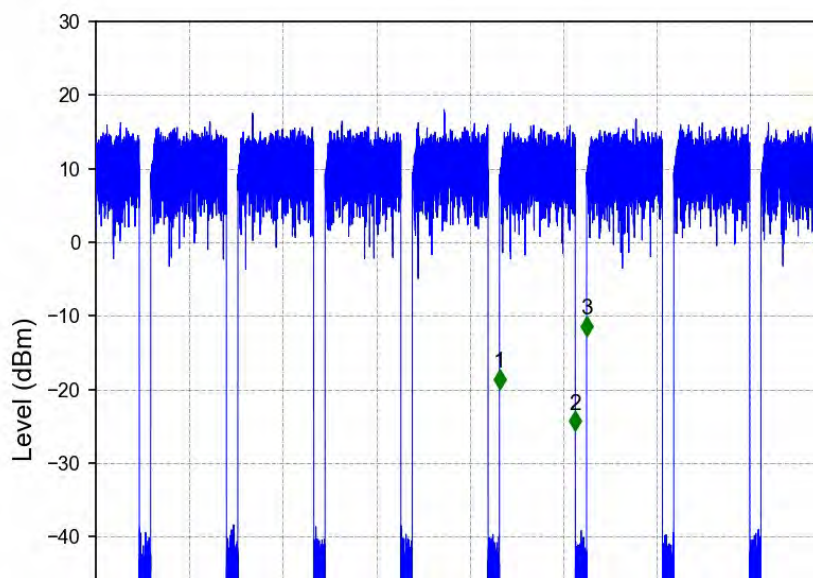
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



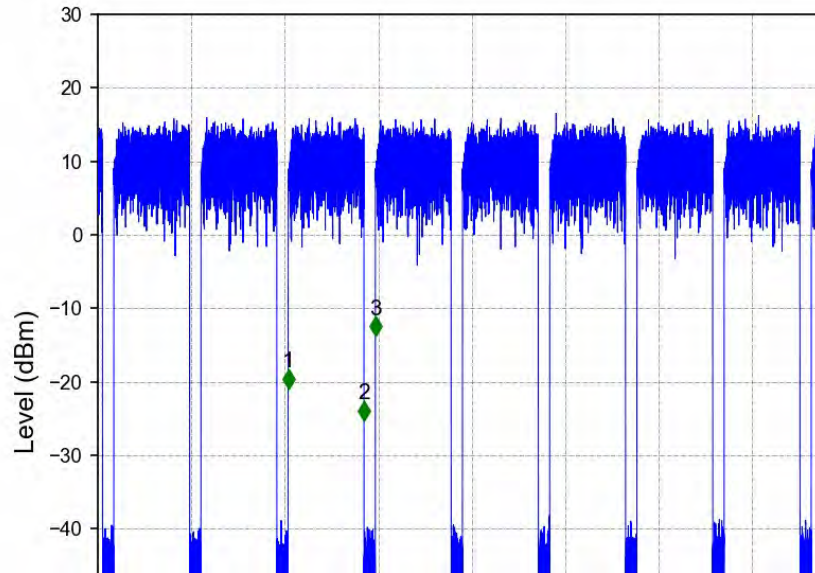
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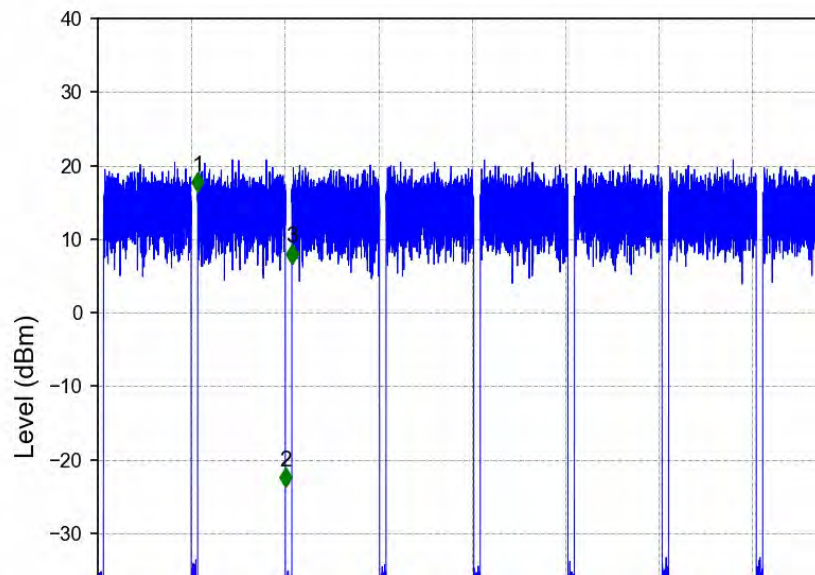
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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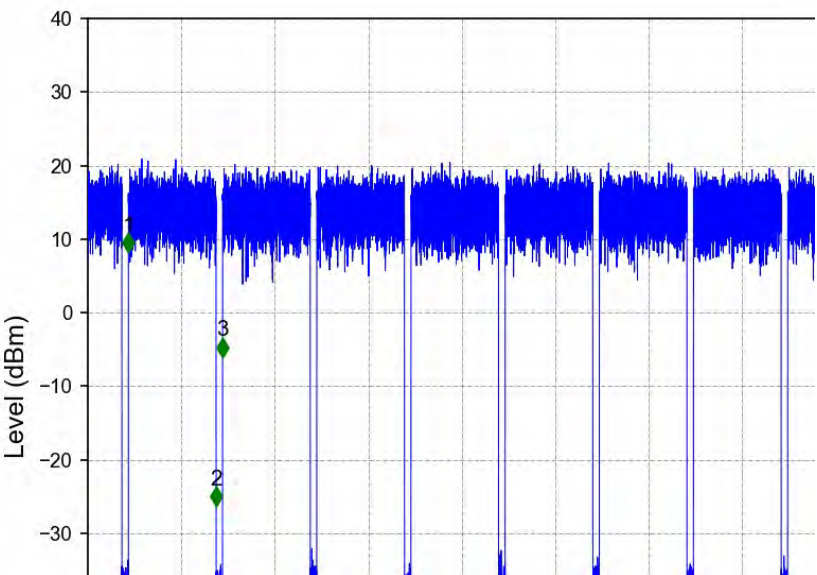
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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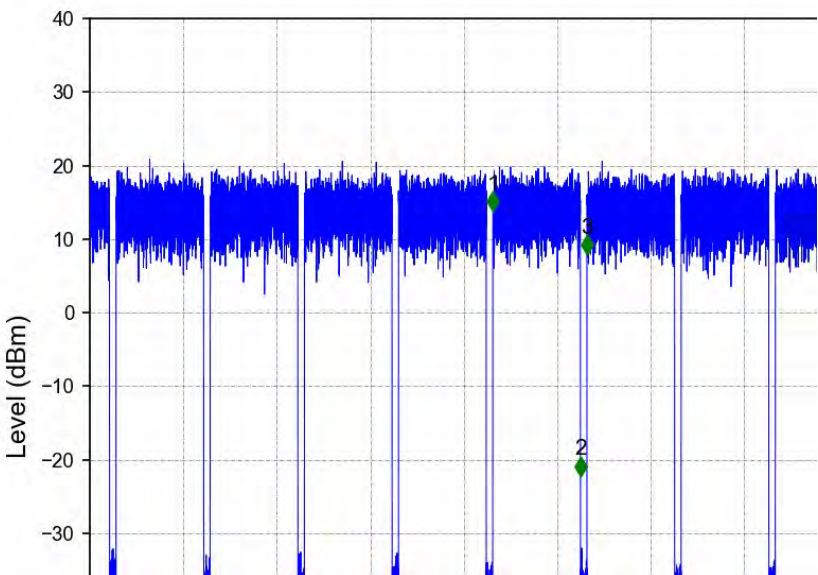
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



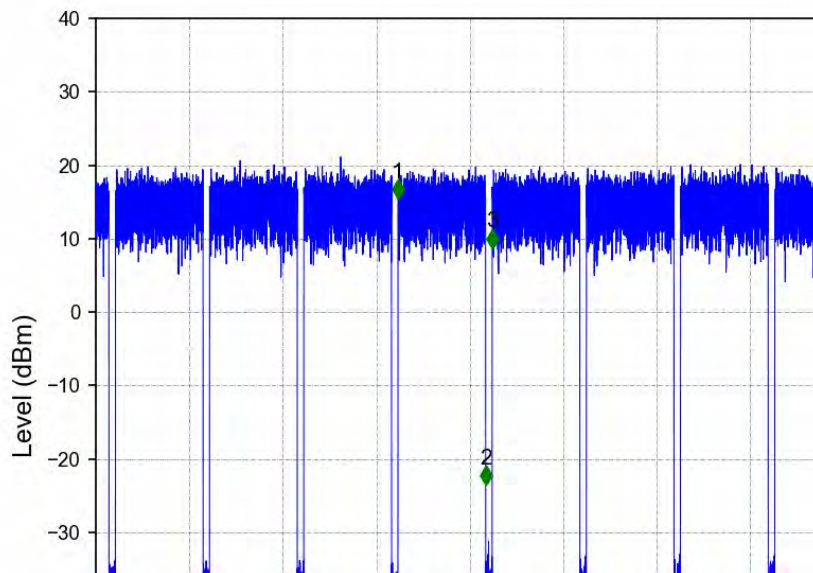
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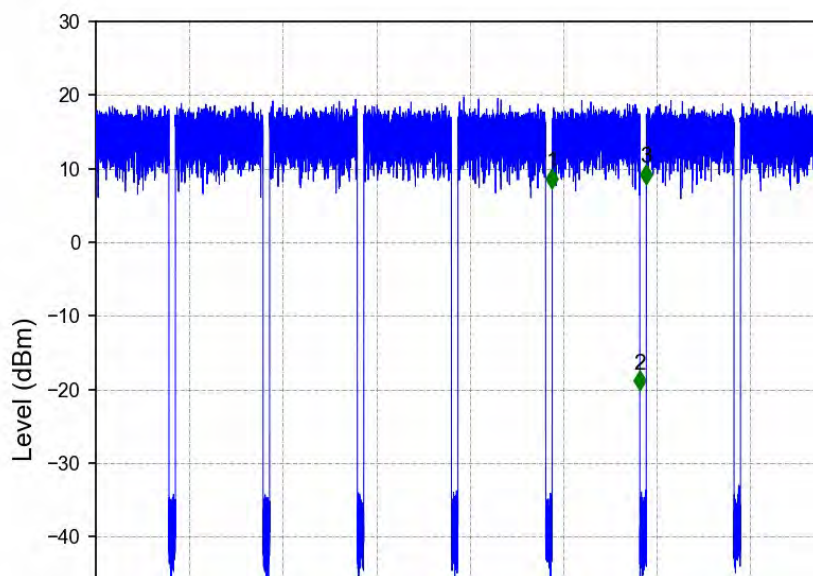
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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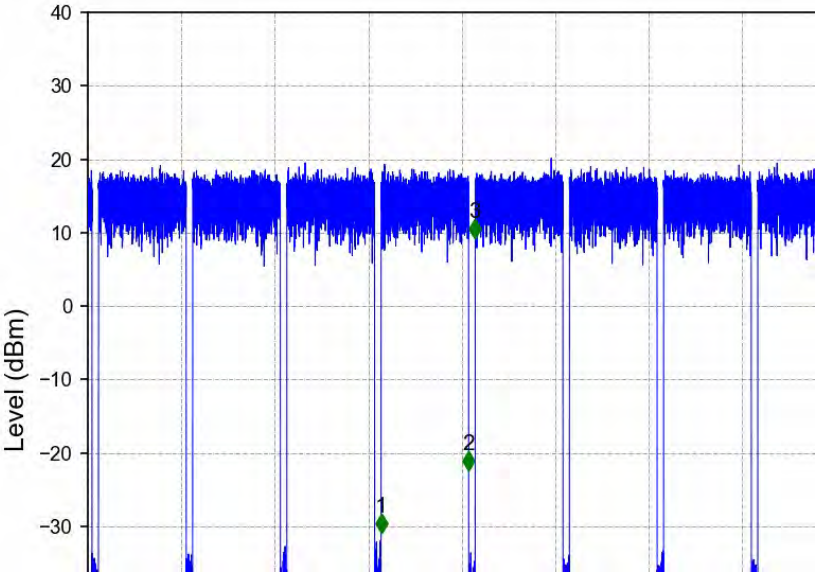
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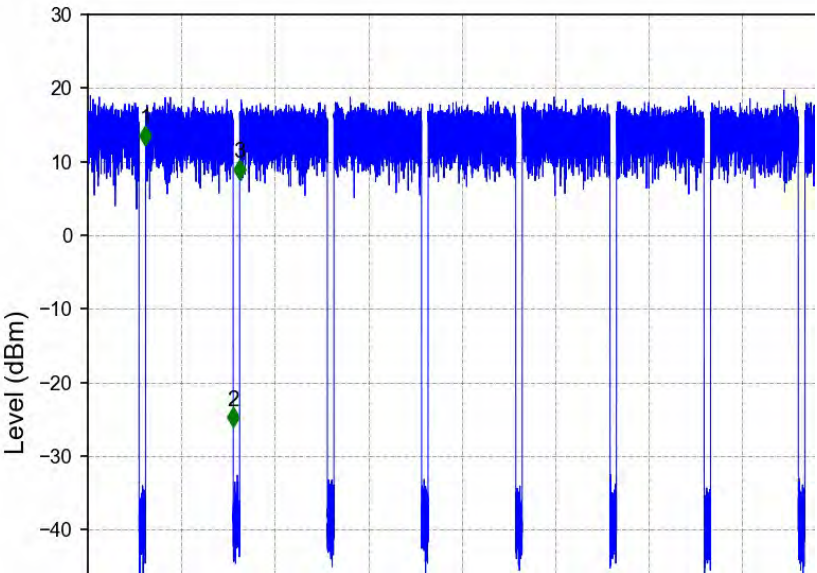
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

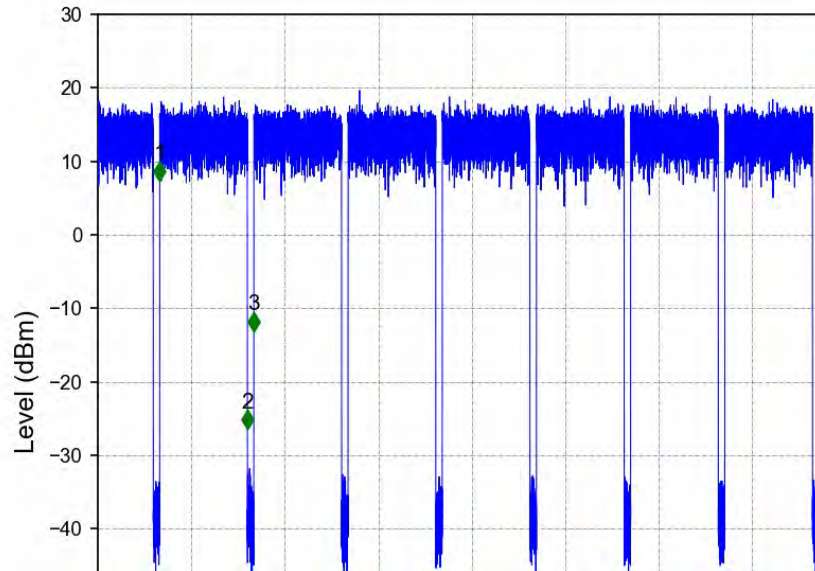


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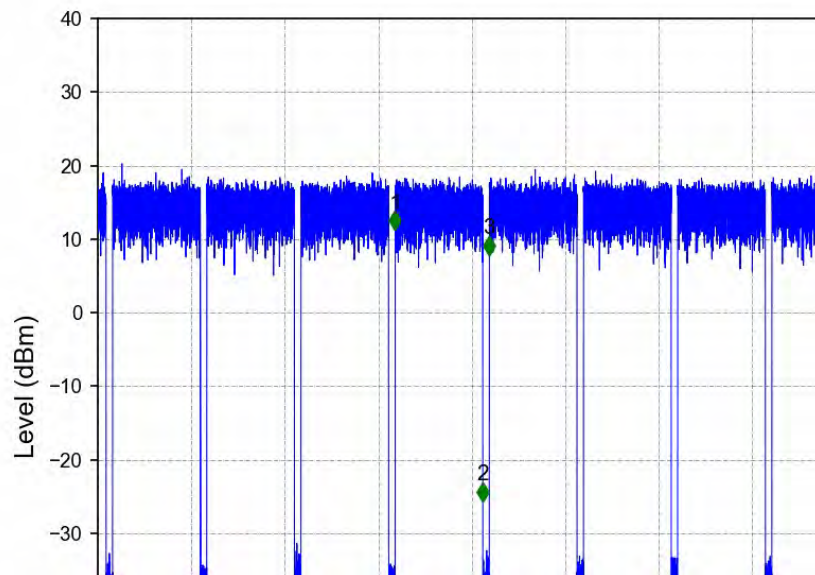


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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



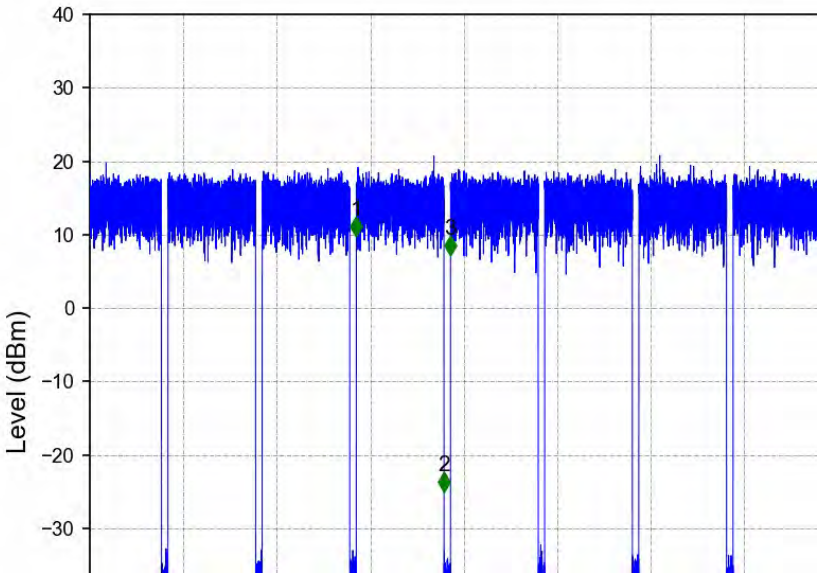
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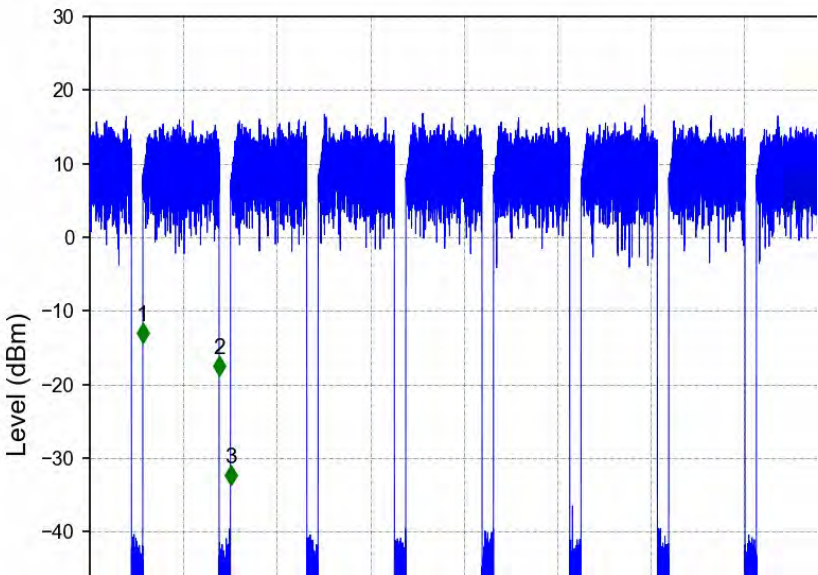
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



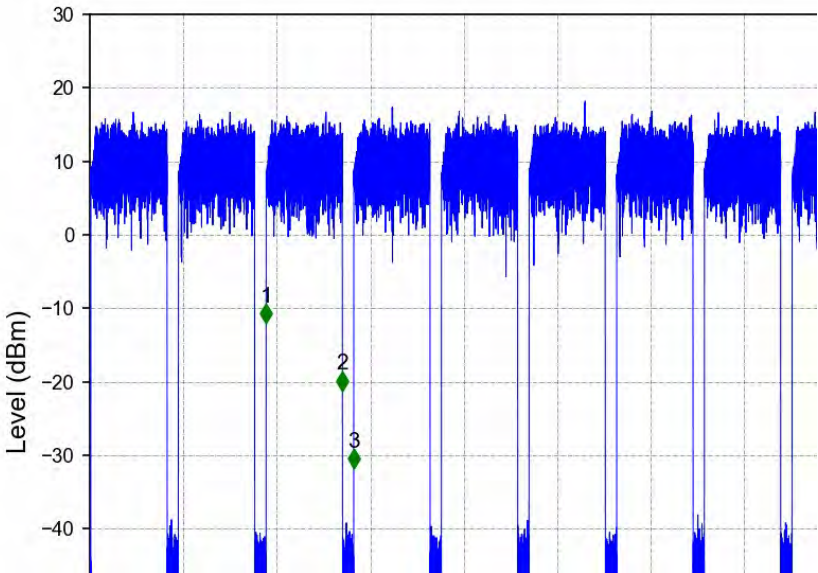
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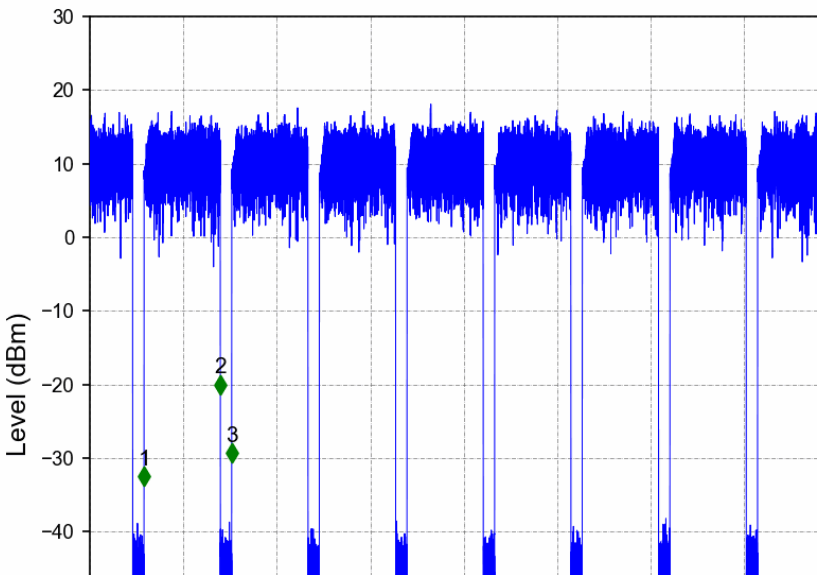
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



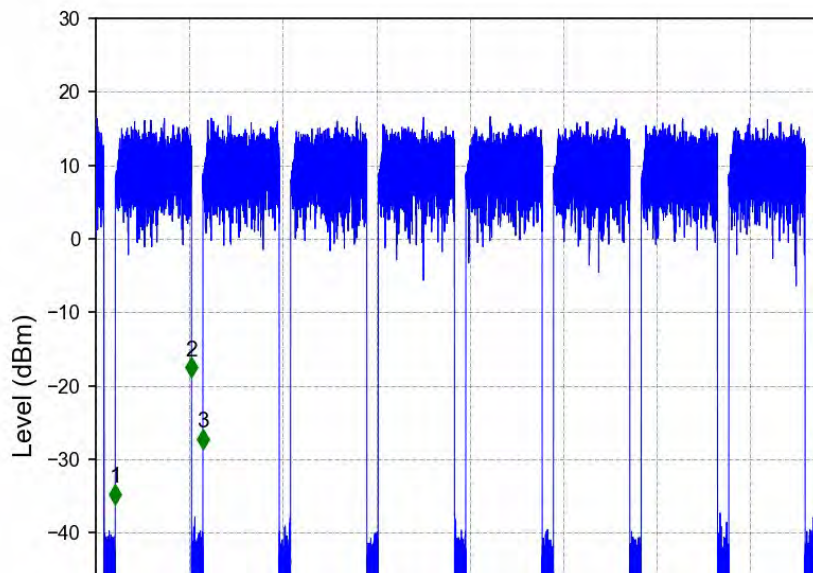
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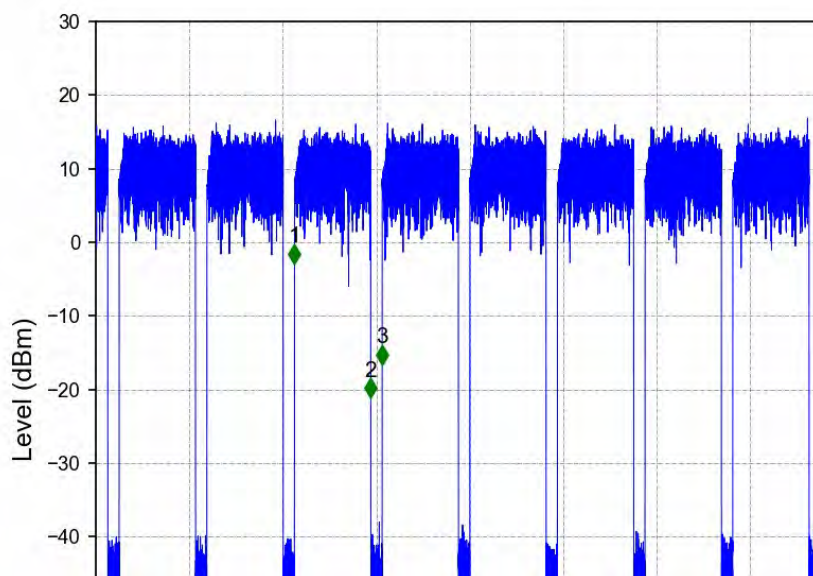
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



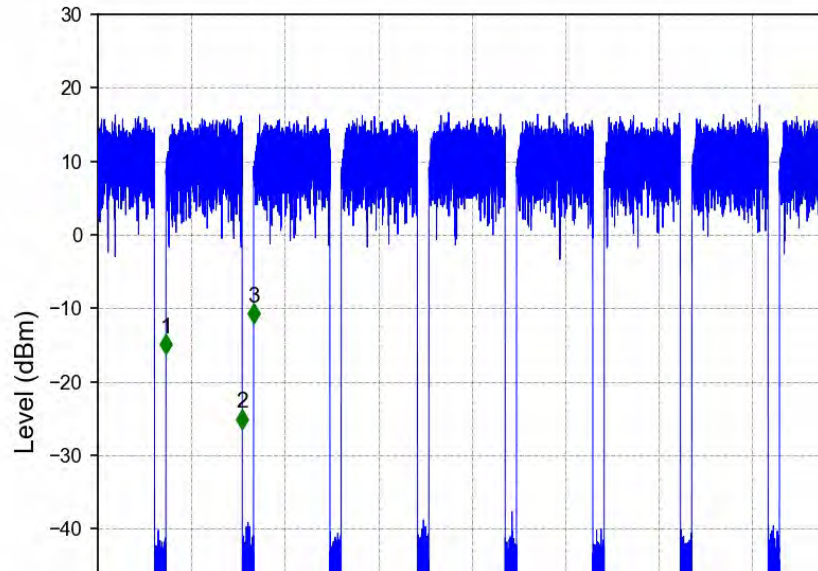
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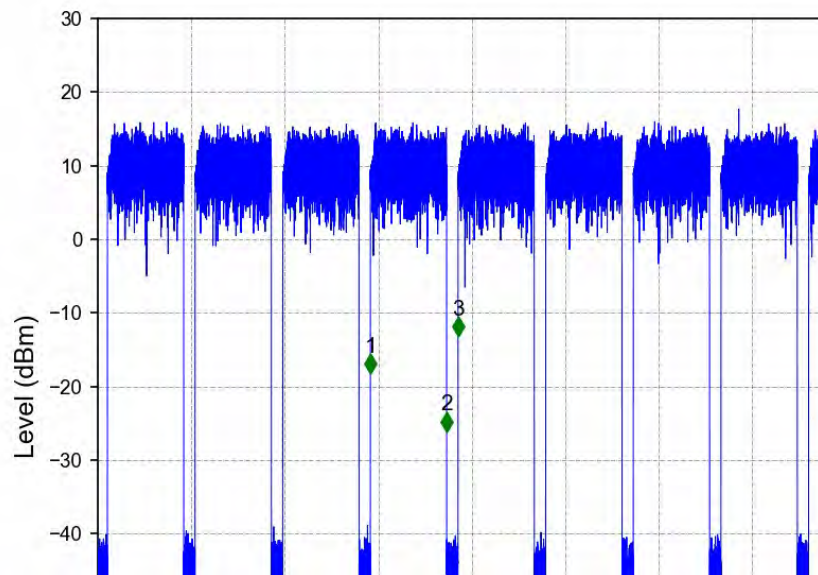
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



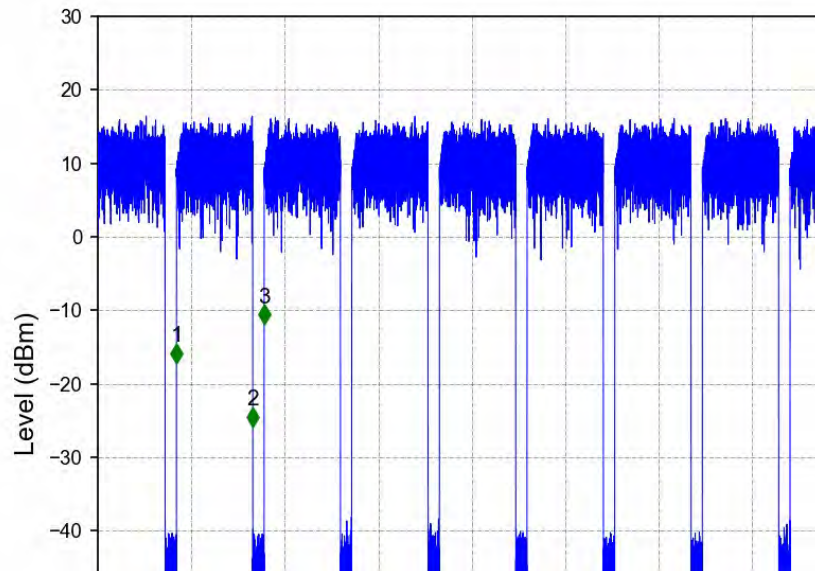
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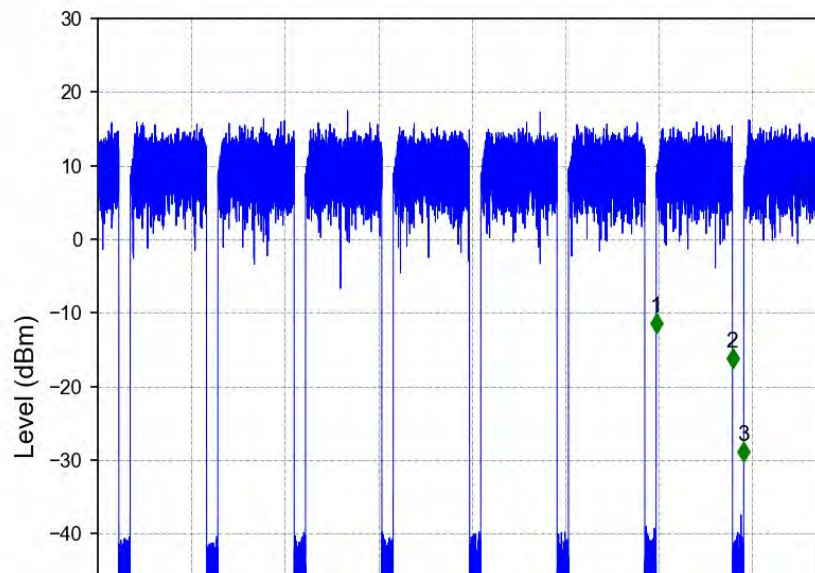
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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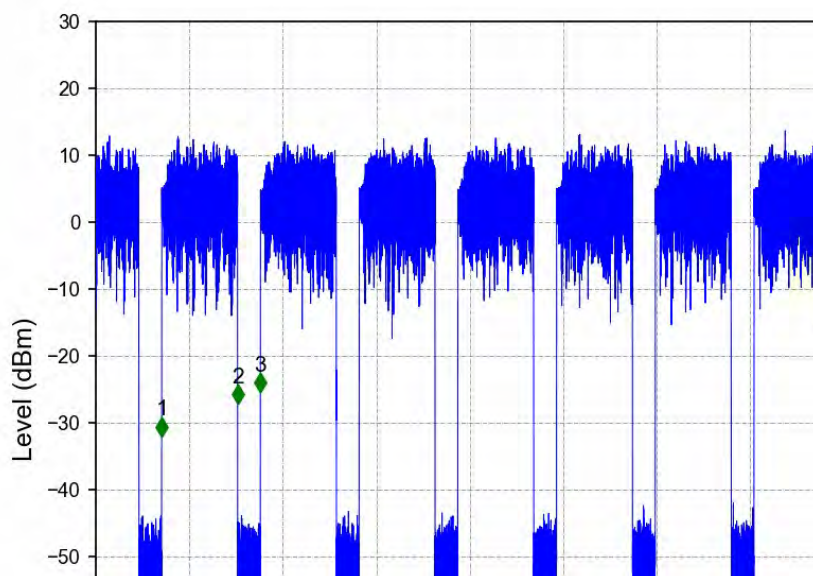
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



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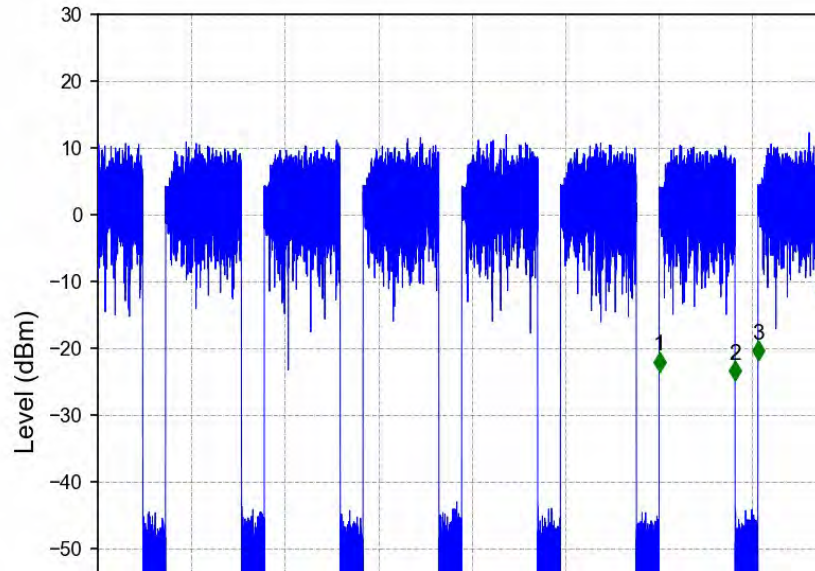
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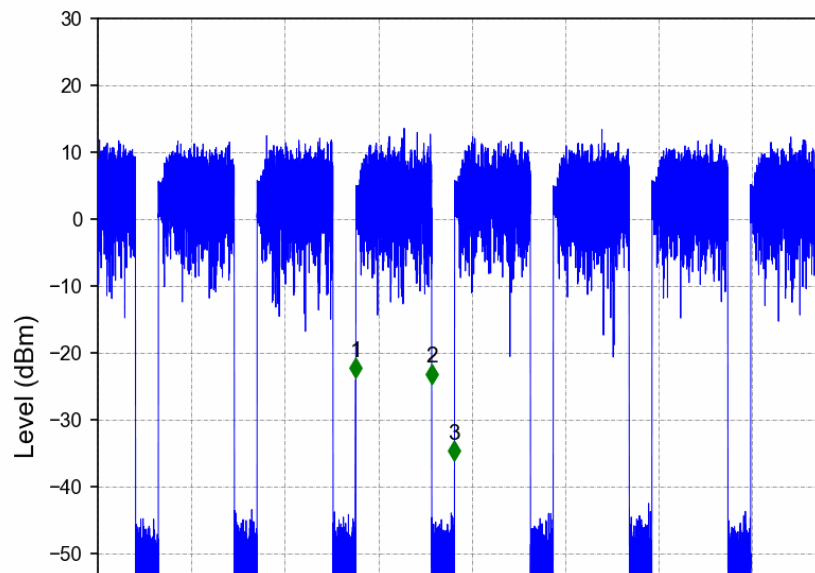
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



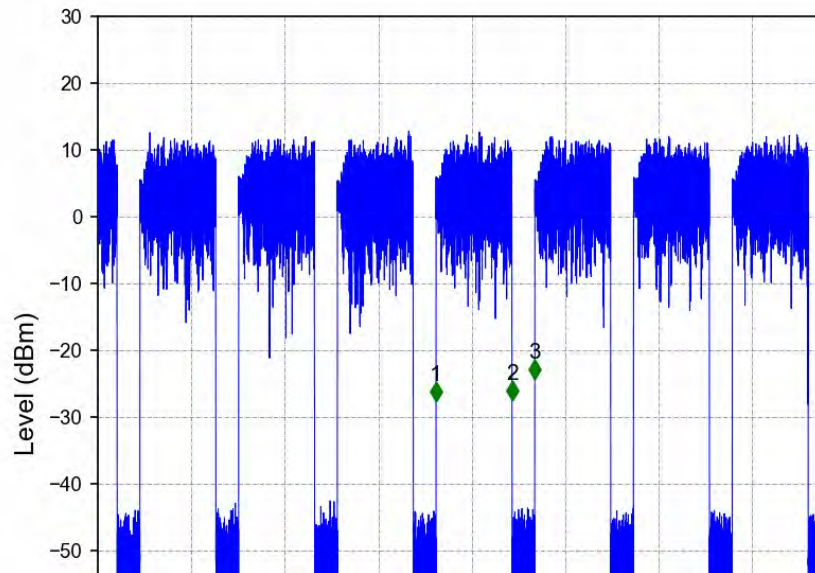
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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Report No.: KSCR221000189402

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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.838	Pass
			2	17.940	Pass
		5200	1	18.120	Pass
			2	18.214	Pass
		5240	1	18.325	Pass
			2	18.189	Pass
		5260	1	18.516	Pass
			2	17.973	Pass
		5300	1	18.867	Pass
			2	18.292	Pass
		5320	1	19.765	Pass
			2	18.790	Pass
		5500	1	22.412	Pass
			2	18.053	Pass
		5580	1	26.083	Pass
			2	18.078	Pass
		5700	1	24.978	Pass
			2	17.731	Pass
		5745	1	25.496	Pass
			2	17.965	Pass
		5785	1	25.062	Pass
			2	17.872	Pass
		5825	1	25.185	Pass
			2	17.964	Pass
802.11n (HT20)	MIMO	5180	1	18.715	Pass
			2	18.731	Pass
		5200	1	18.940	Pass
			2	18.900	Pass
		5240	1	19.221	Pass
			2	18.899	Pass
		5260	1	19.423	Pass
			2	19.423	Pass



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		5300	2	18.828	Pass
			1	19.925	Pass
			2	19.353	Pass
		5320	1	23.035	Pass
			2	19.840	Pass
		5500	1	24.266	Pass
			2	19.385	Pass
		5580	1	24.972	Pass
			2	18.833	Pass
		5700	1	23.826	Pass
			2	18.638	Pass
		5745	1	25.309	Pass
			2	18.689	Pass
		5785	1	25.769	Pass
			2	18.743	Pass
		5825	1	25.284	Pass
			2	18.504	Pass
802.11n (HT40)	MIMO	5190	1	37.437	Pass
			2	37.568	Pass
		5230	1	37.765	Pass
			2	37.536	Pass
		5270	1	37.480	Pass
			2	37.400	Pass
		5310	1	38.244	Pass
			2	37.877	Pass
		5510	1	44.227	Pass
			2	37.674	Pass
		5550	1	48.231	Pass
			2	37.606	Pass
		5670	1	54.174	Pass
			2	37.736	Pass
		5755	1	51.434	Pass
			2	37.514	Pass
		5795	1	45.514	Pass
			2	37.218	Pass
802.11ac (VHT20)	MIMO	5180	1	18.604	Pass
			2	18.531	Pass
		5200	1	18.720	Pass
			2	18.858	Pass



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		5240	1	19.009	Pass
			2	18.968	Pass
		5260	1	19.134	Pass
			2	18.842	Pass
		5300	1	19.340	Pass
			2	19.066	Pass
		5320	1	23.283	Pass
			2	19.318	Pass
		5500	1	25.047	Pass
			2	19.296	Pass
		5580	1	24.285	Pass
			2	18.823	Pass
		5700	1	23.609	Pass
			2	18.473	Pass
		5745	1	25.055	Pass
			2	18.680	Pass
		5785	1	25.849	Pass
			2	18.622	Pass
		5825	1	24.254	Pass
			2	18.392	Pass
802.11ac (VHT40)	MIMO	5190	1	36.881	Pass
			2	36.954	Pass
		5230	1	37.015	Pass
			2	37.076	Pass
		5270	1	37.168	Pass
			2	36.967	Pass
		5310	1	37.709	Pass
			2	37.319	Pass
		5510	1	43.962	Pass
			2	37.374	Pass
		5550	1	48.347	Pass
			2	37.395	Pass
		5670	1	52.743	Pass
			2	37.423	Pass
		5755	1	52.272	Pass
			2	36.997	Pass
		5795	1	45.535	Pass
			2	36.759	Pass
802.11ac	MIMO	5210	1	77.330	Pass



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(VHT80)		5290	2	77.099	Pass
			1	77.501	Pass
		5530	2	77.223	Pass
			1	83.968	Pass
		5610	2	77.416	Pass
			1	86.692	Pass
		5775	2	76.938	Pass
			1	86.042	Pass
			2	76.965	Pass
			1		
			2		
			1		



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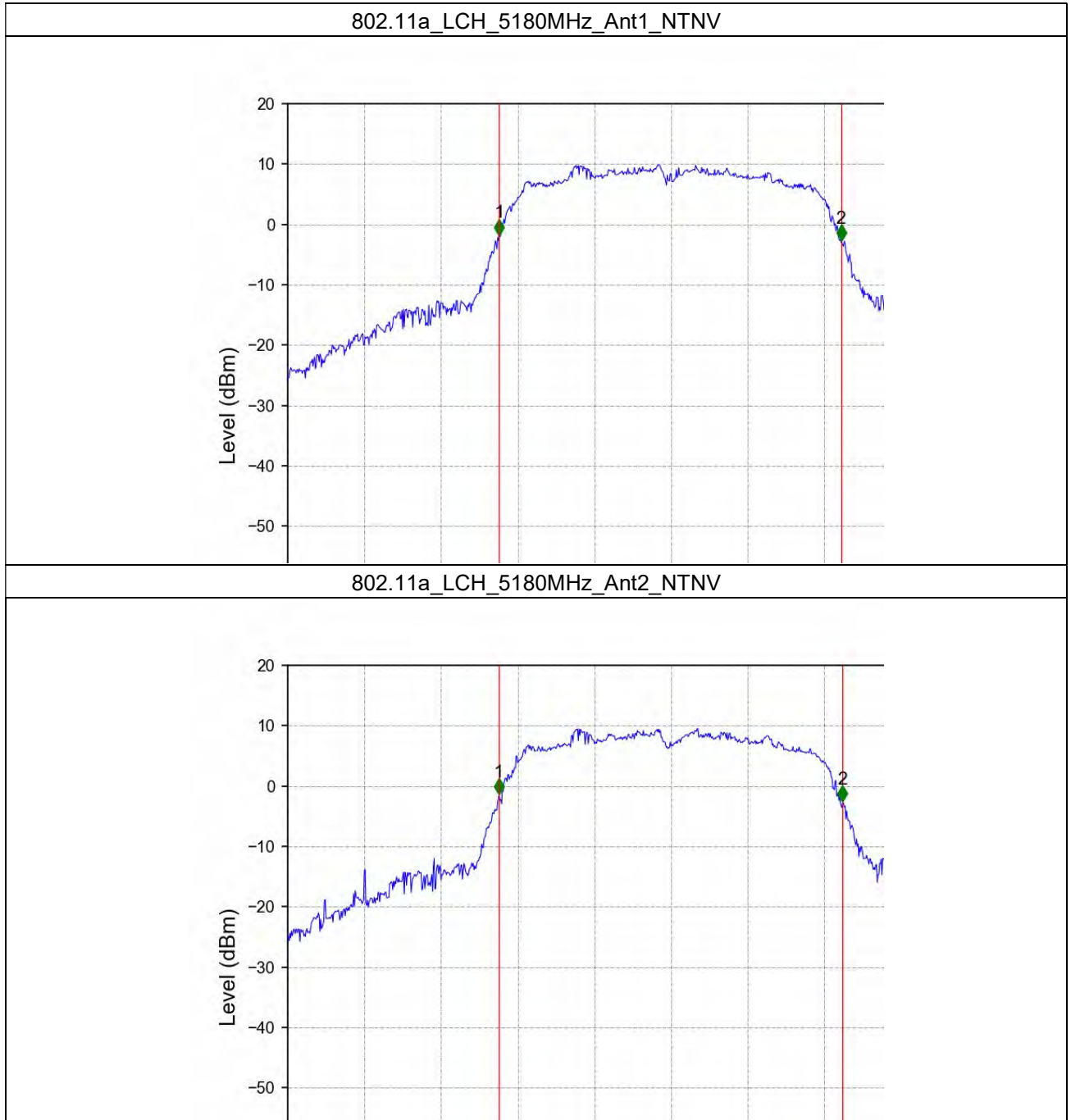
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2.1.2 Test Graph



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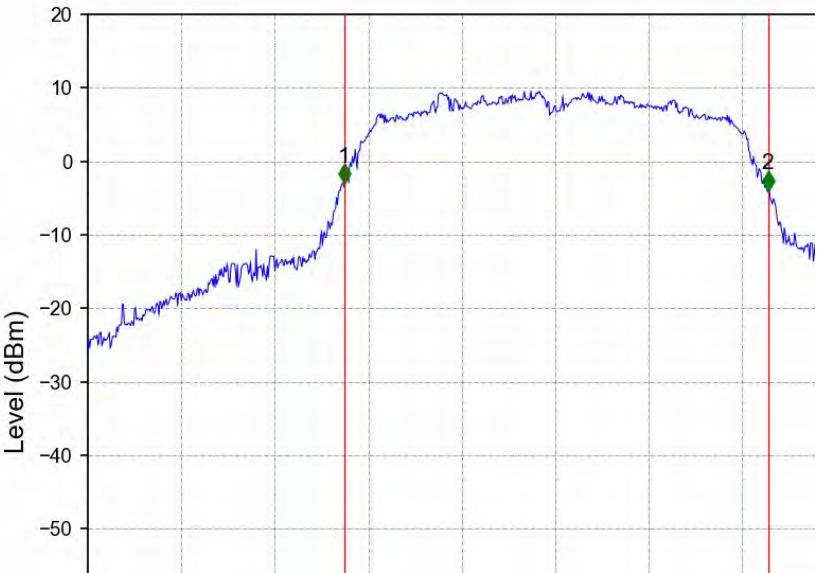
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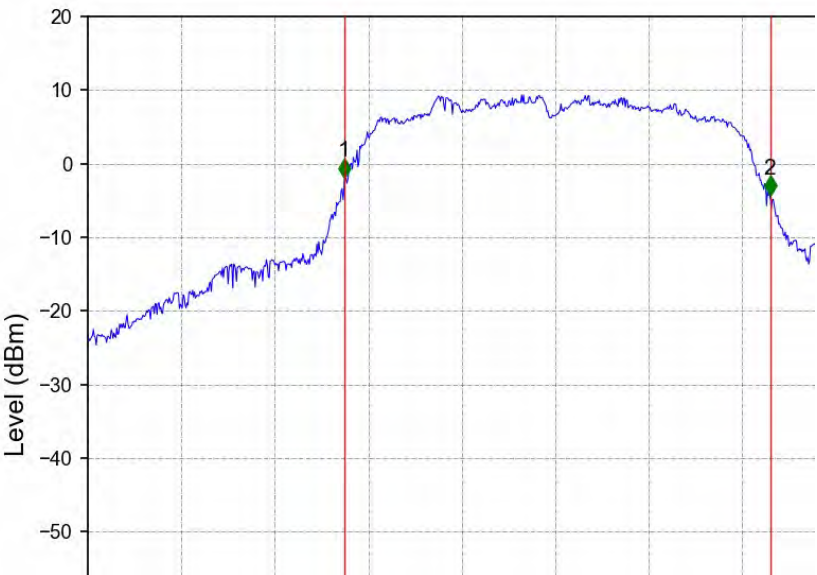
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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



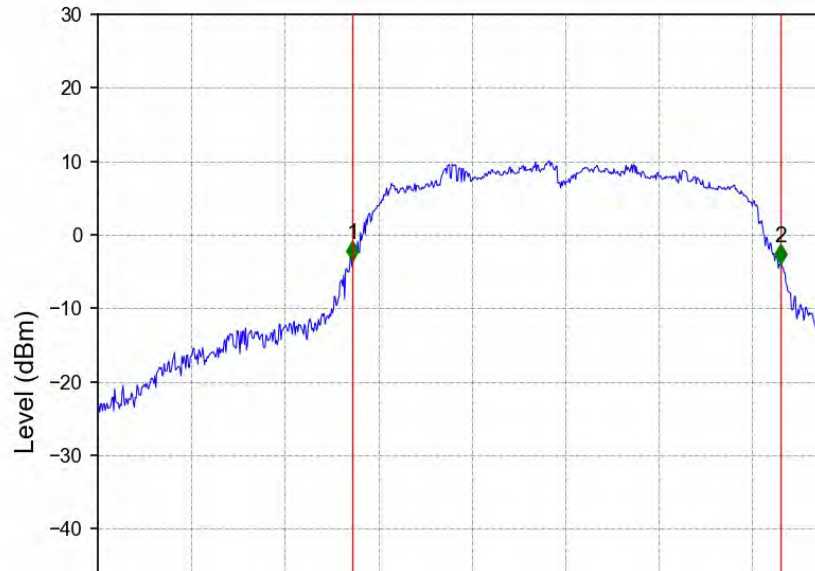
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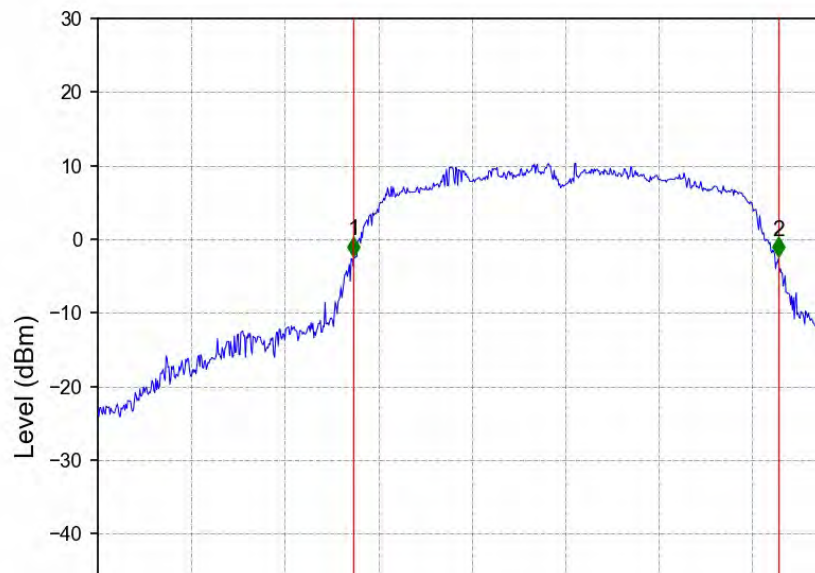
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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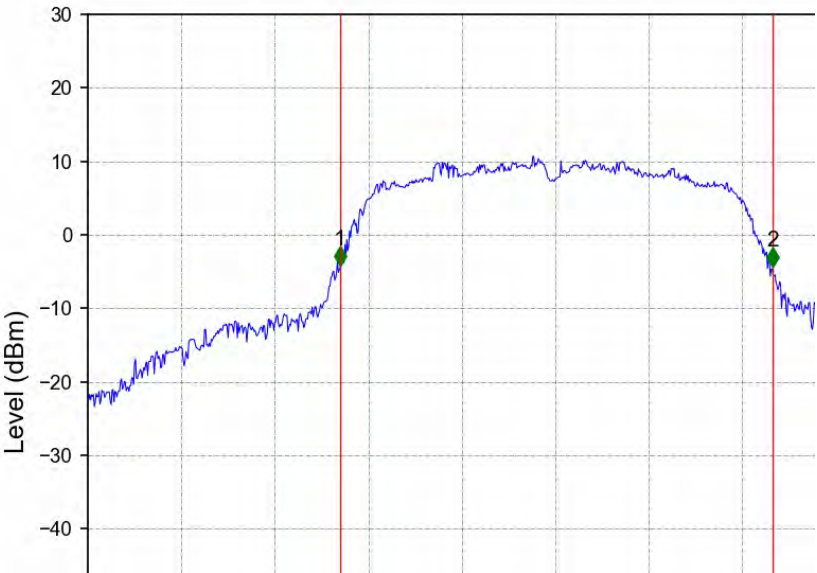
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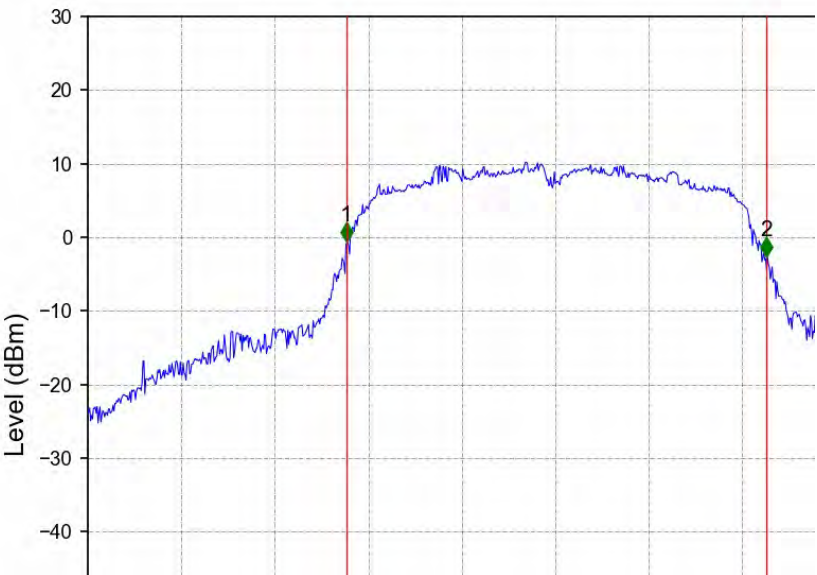
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802.11a_LCH_5260MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant2_NTNV



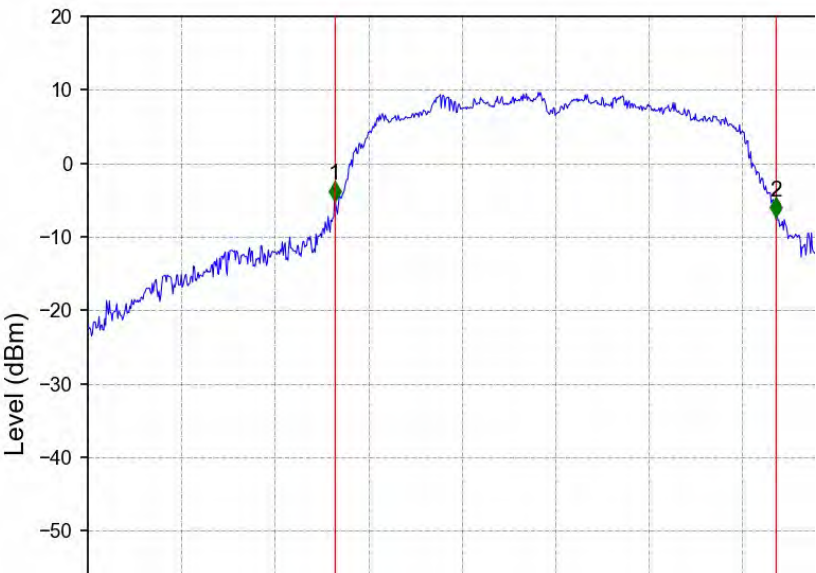
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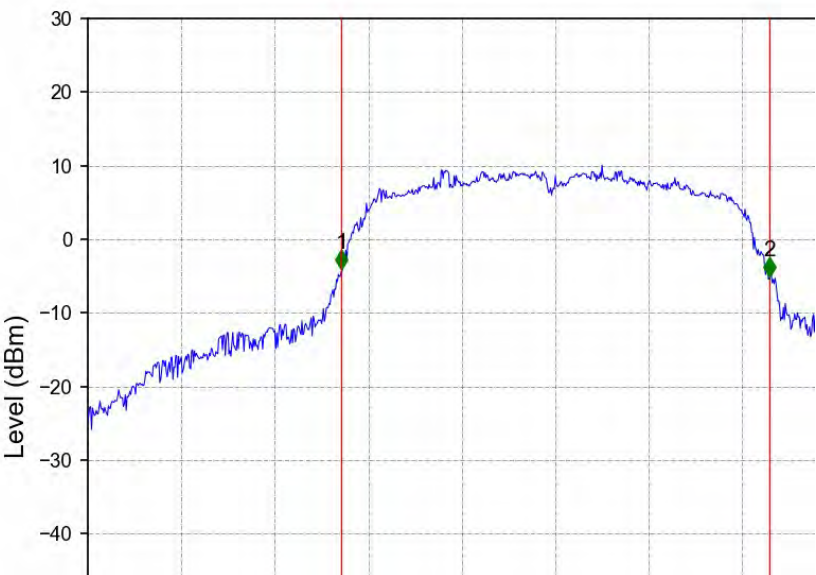
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_MCH_5300MHz_Ant2_NTNV



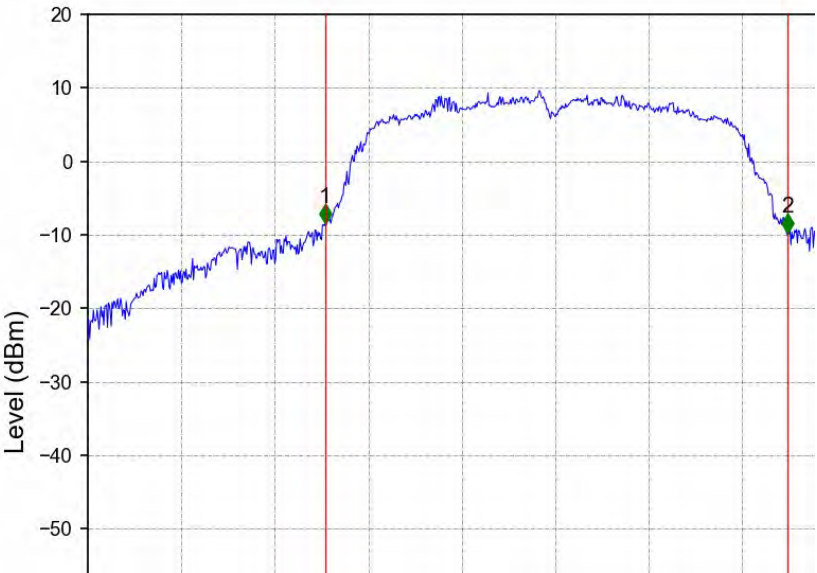
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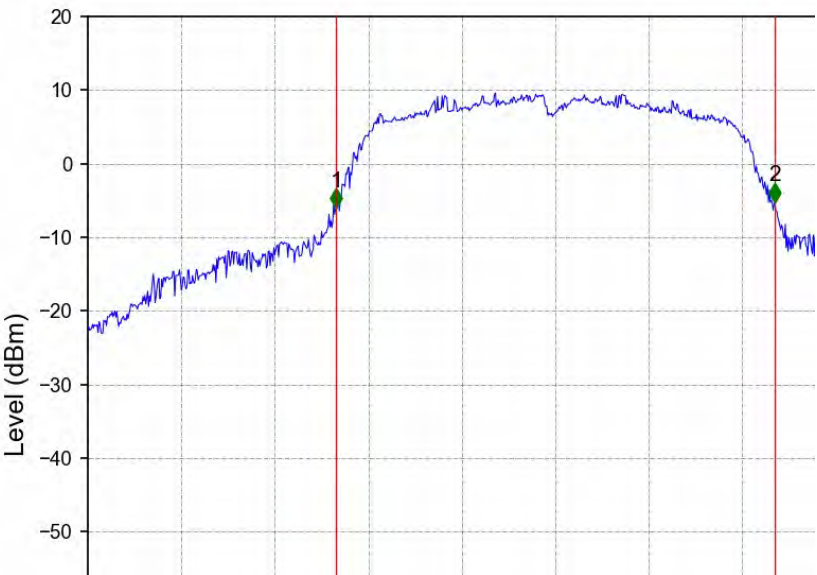
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802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant2_NTNV



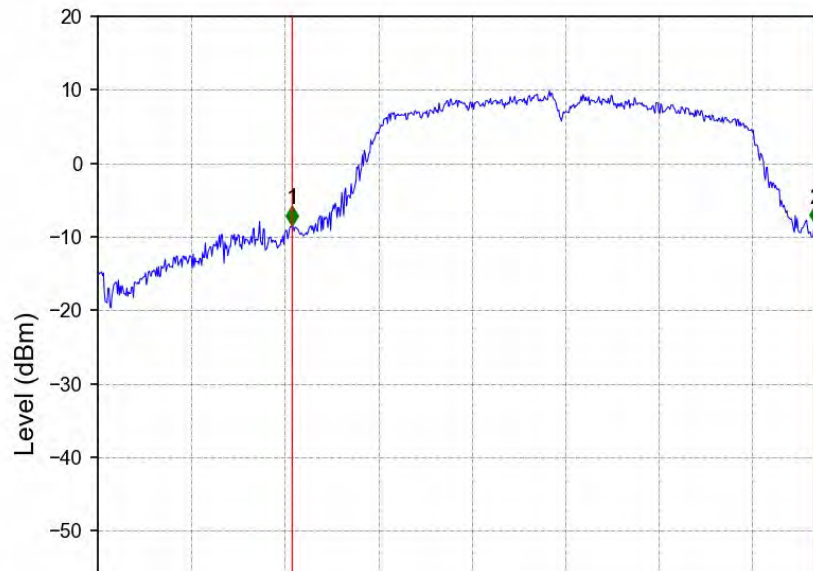
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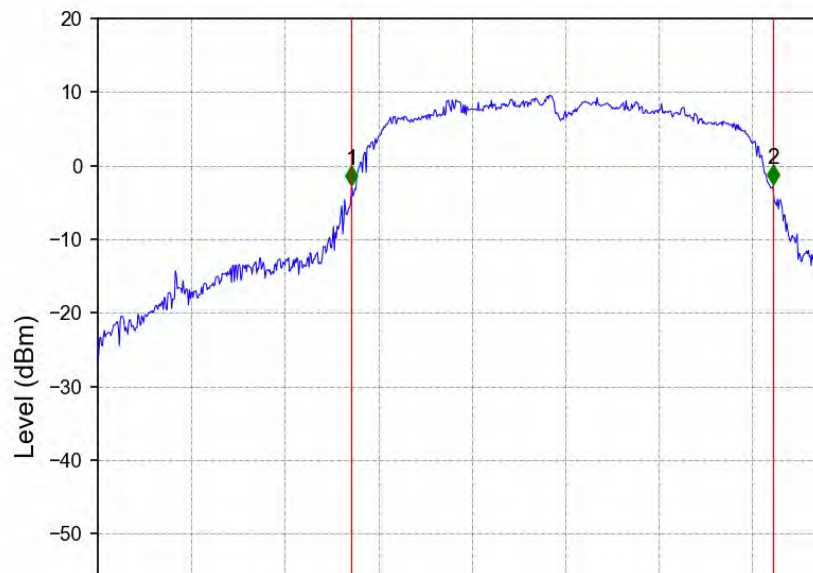
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant2_NTNV



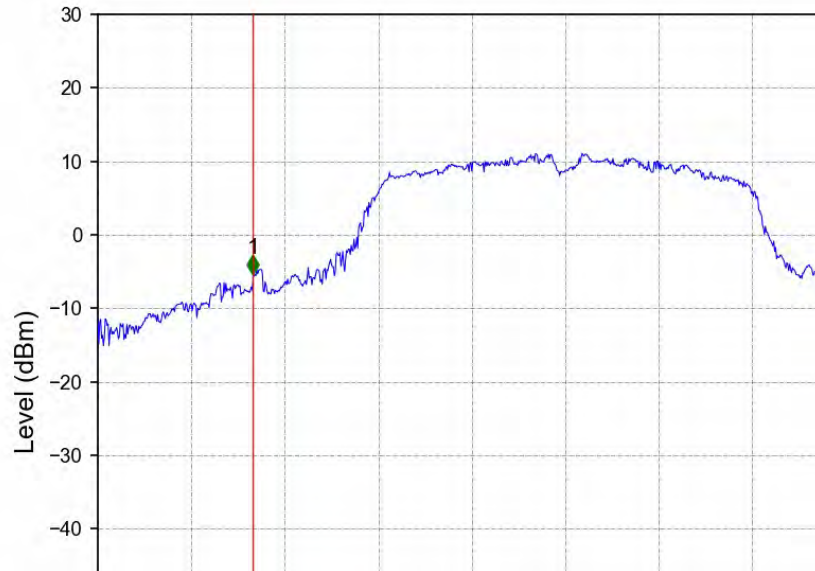
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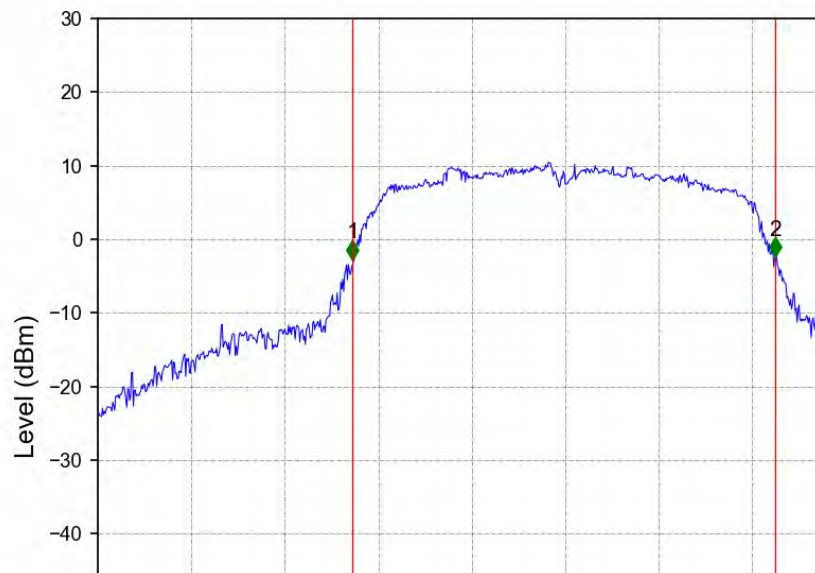
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802.11a_MCH_5580MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant2_NTNV



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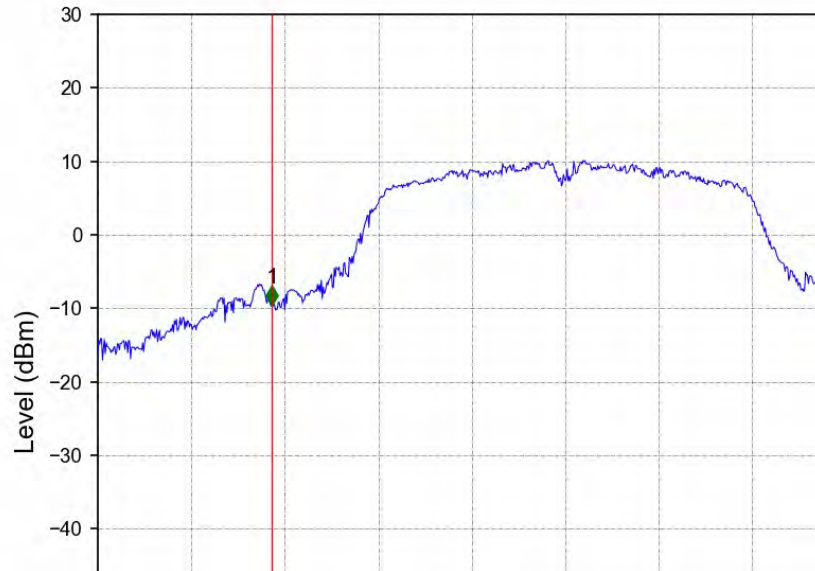
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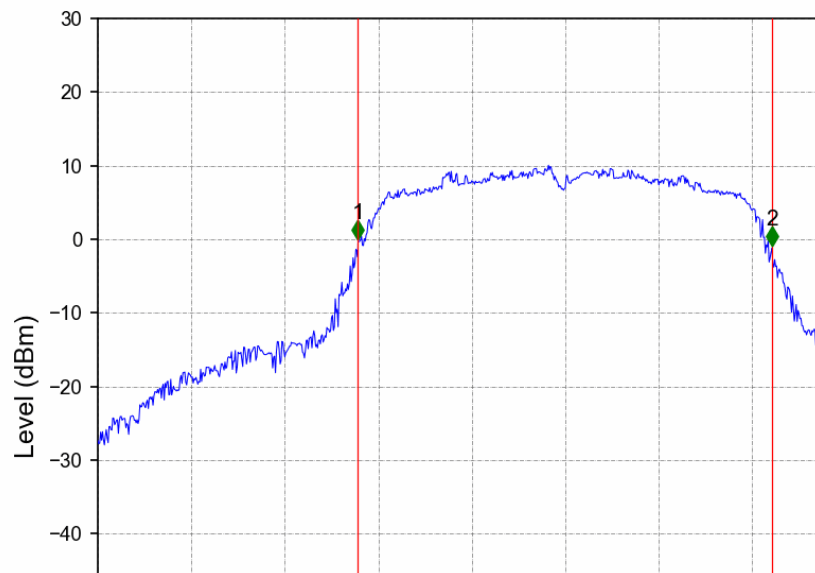
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_HCH_5700MHz_Ant2_NTNV



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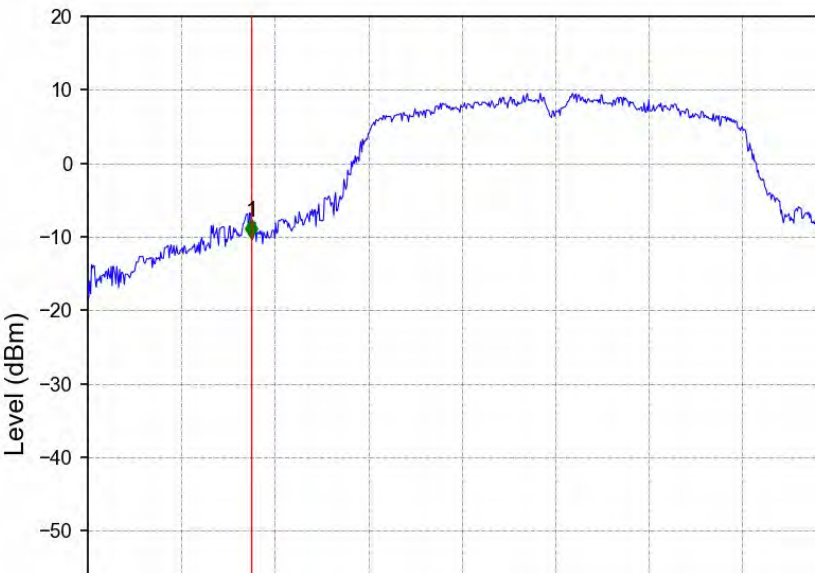
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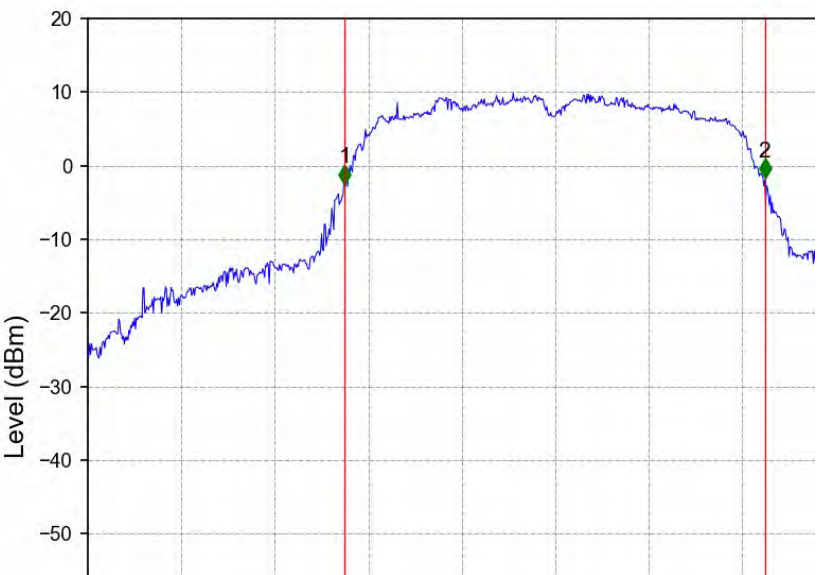
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802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant2_NTNV



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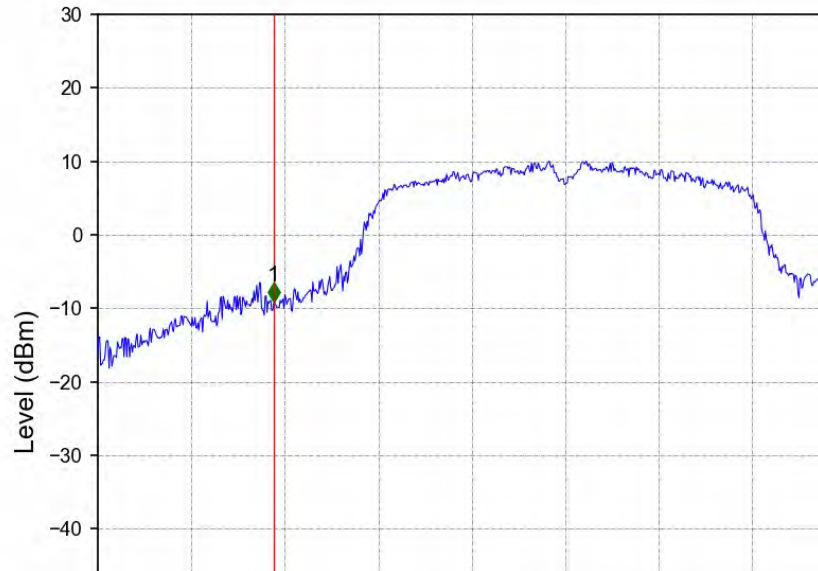
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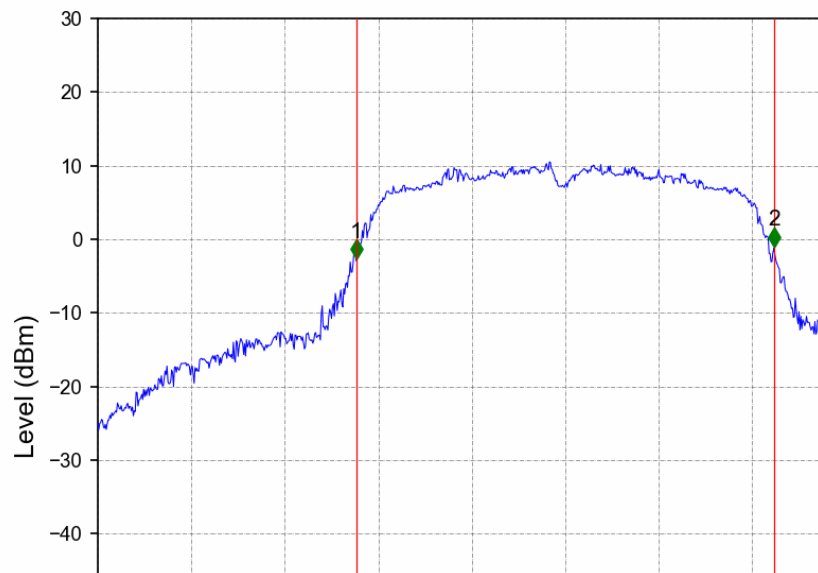
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



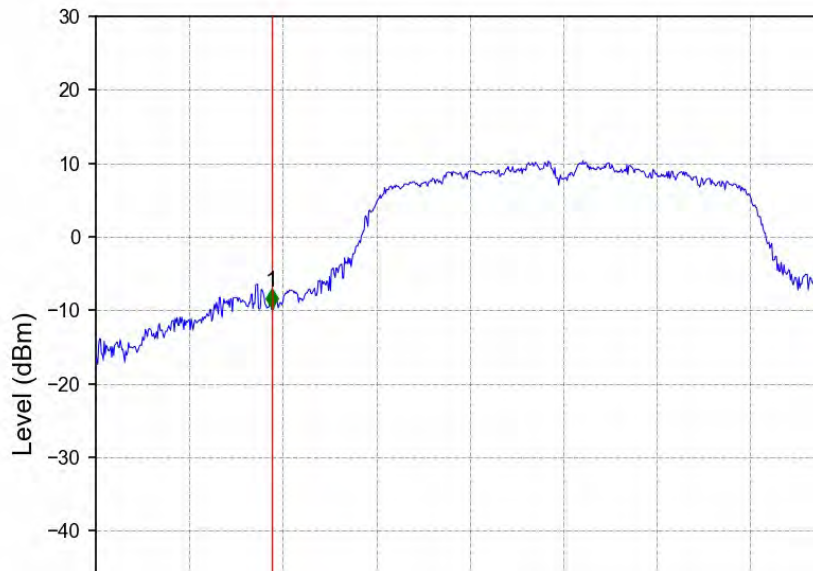
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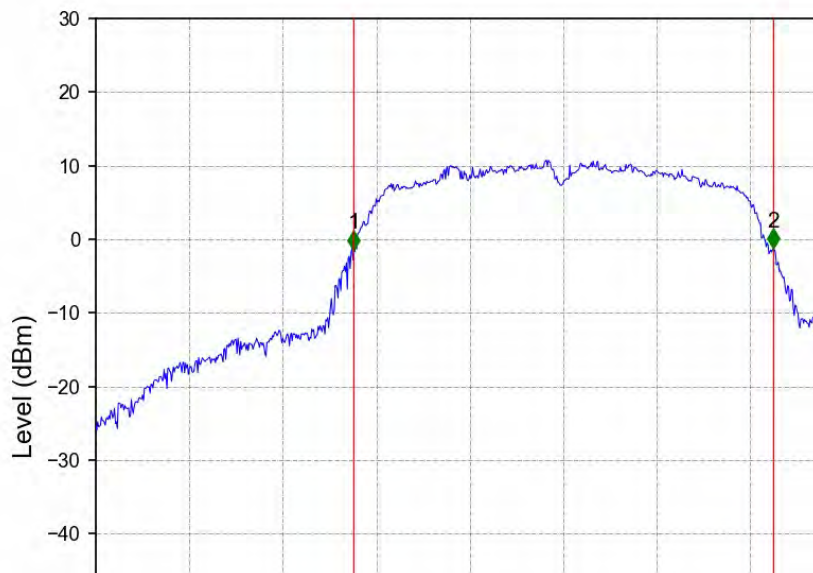
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant2_NTNV



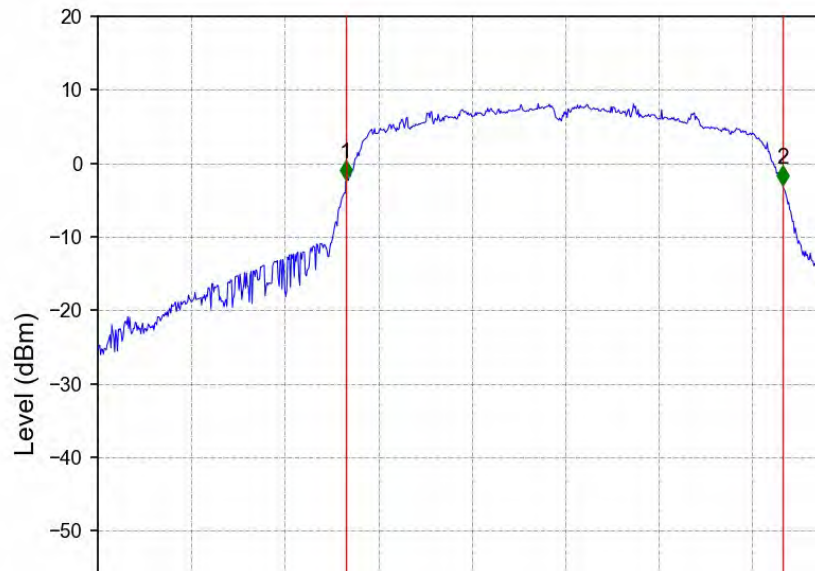
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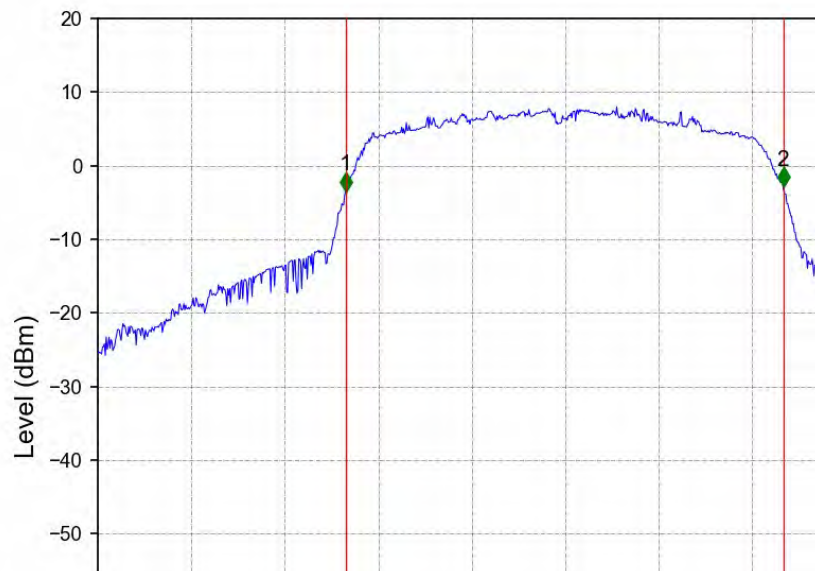
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



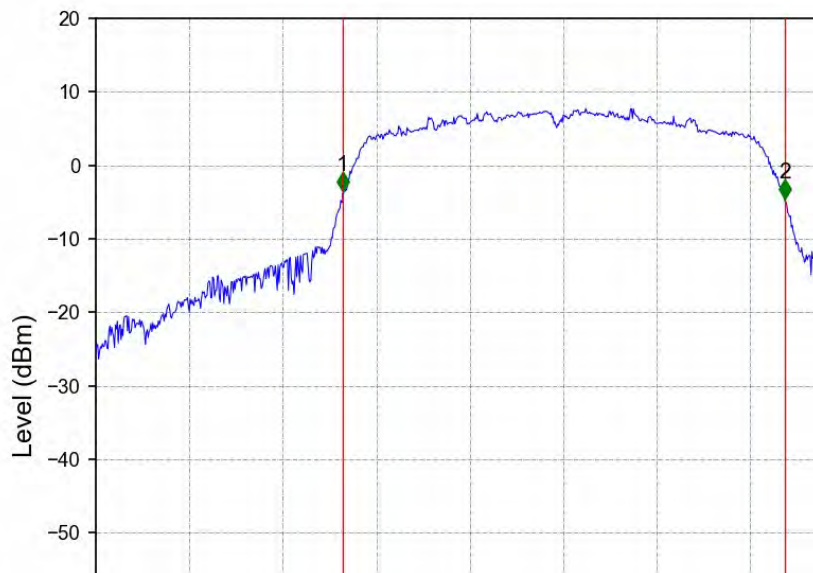
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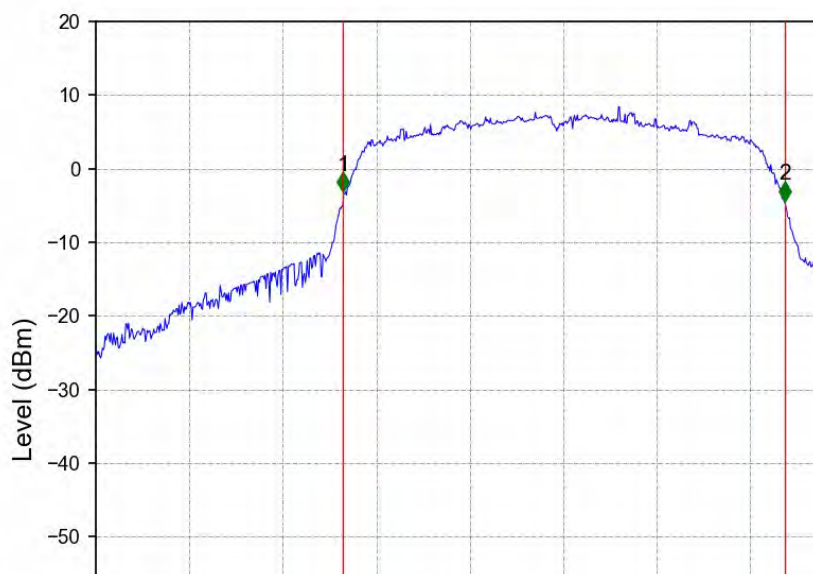
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



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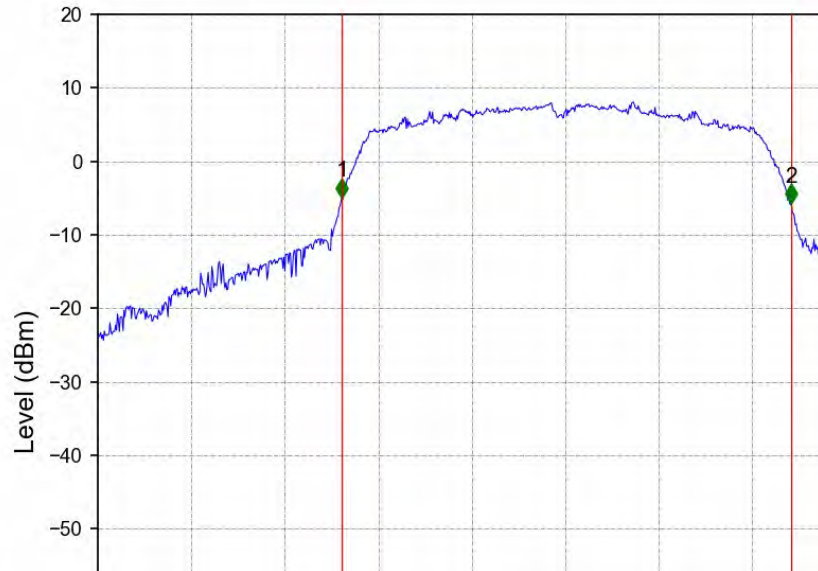
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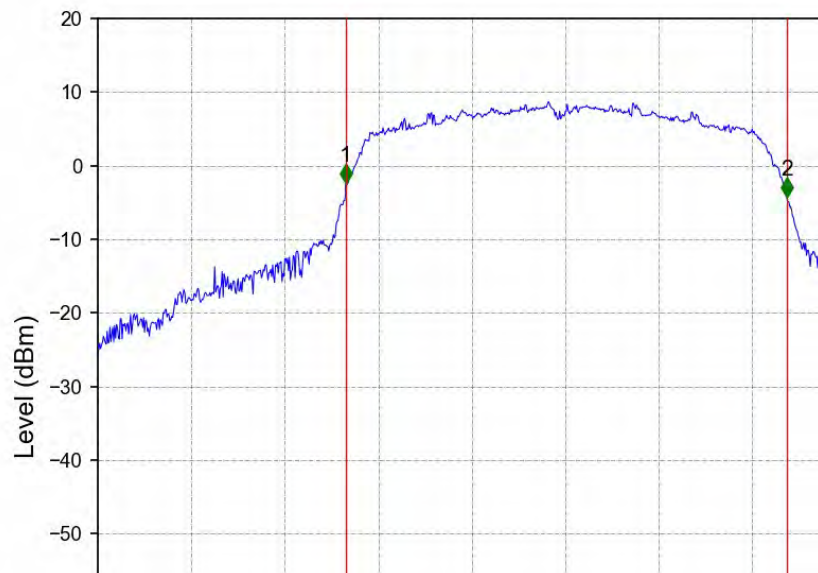
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



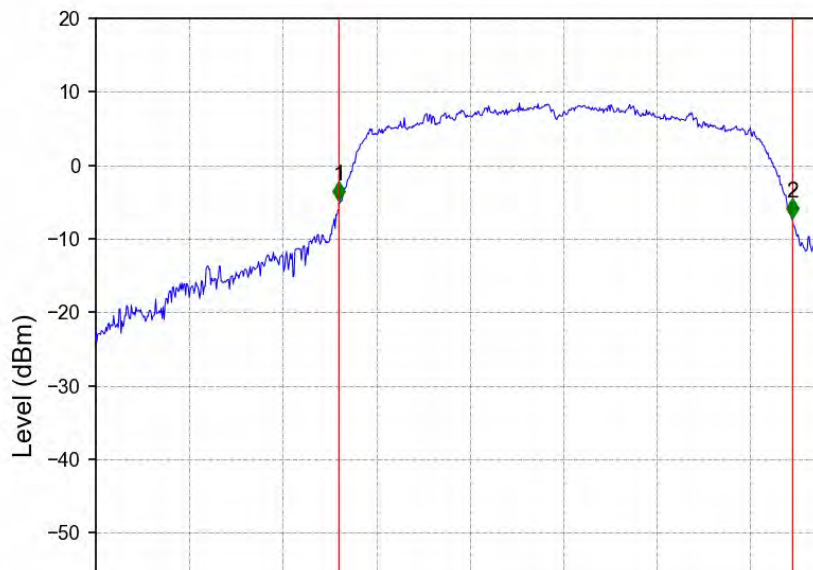
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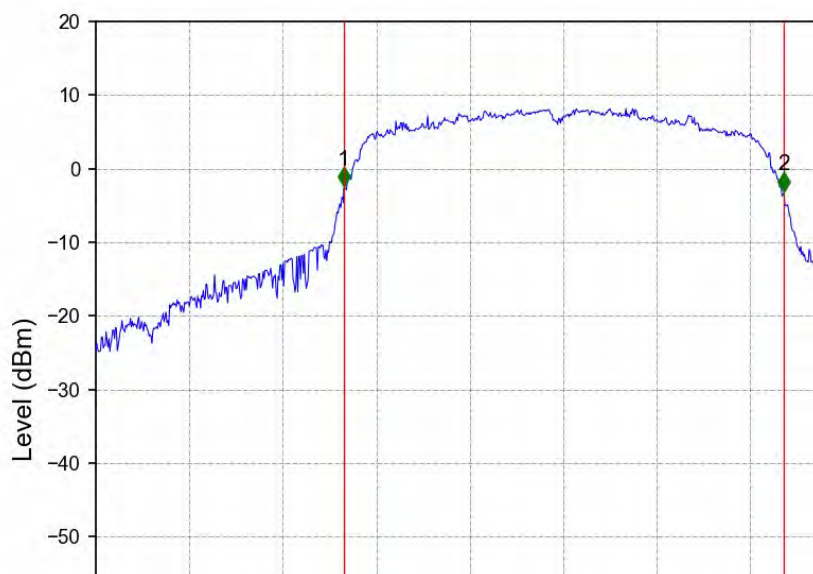
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant2_NTNV



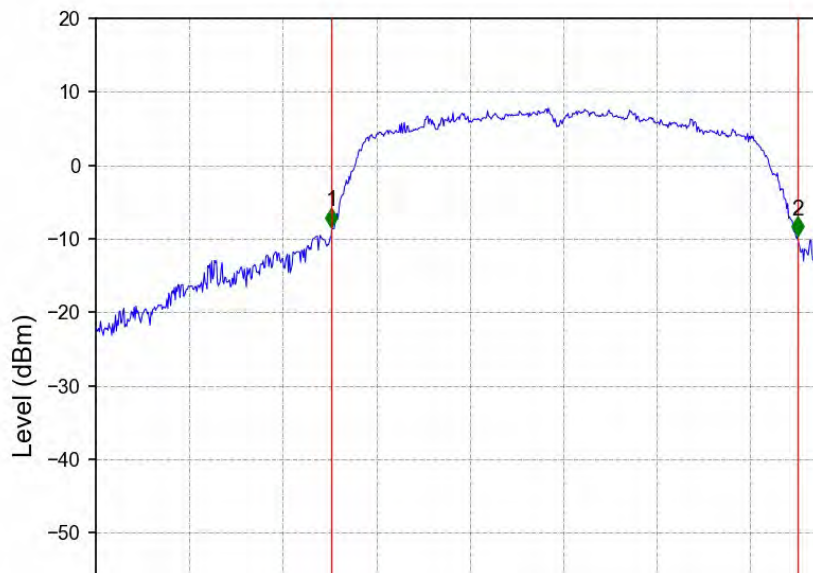
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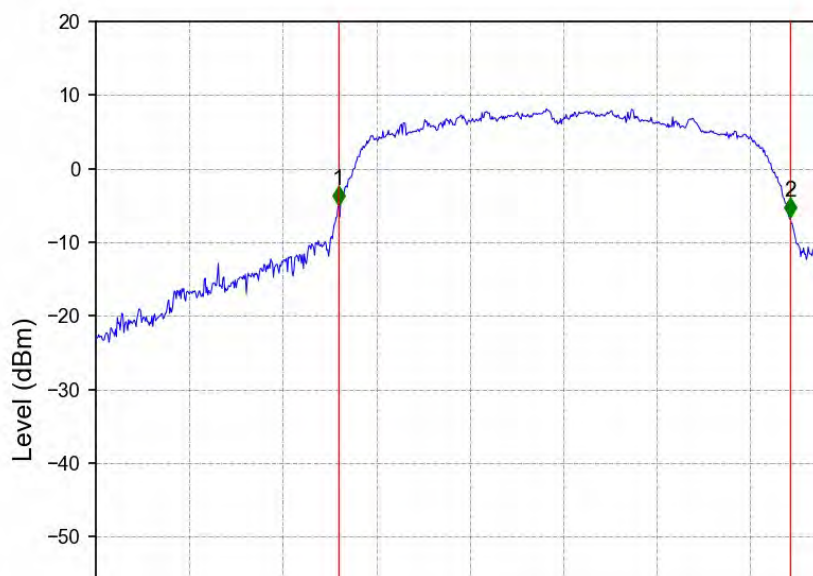
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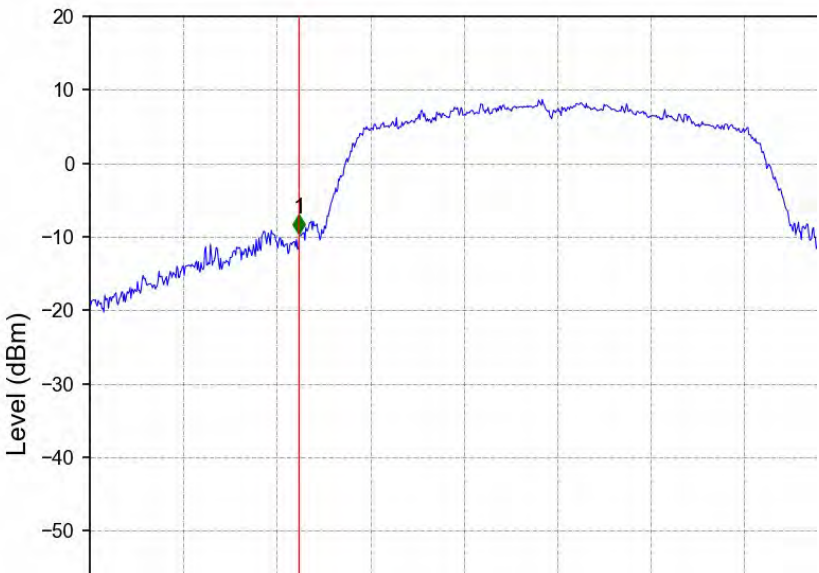
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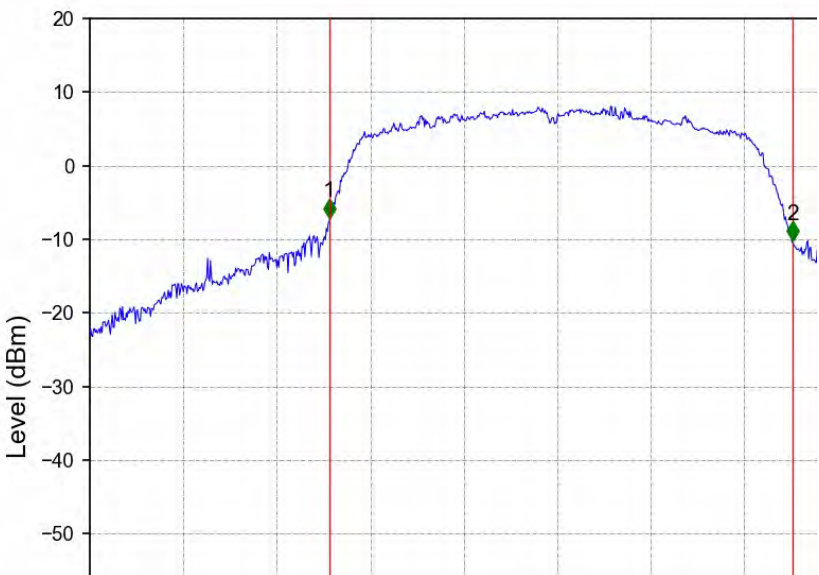
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