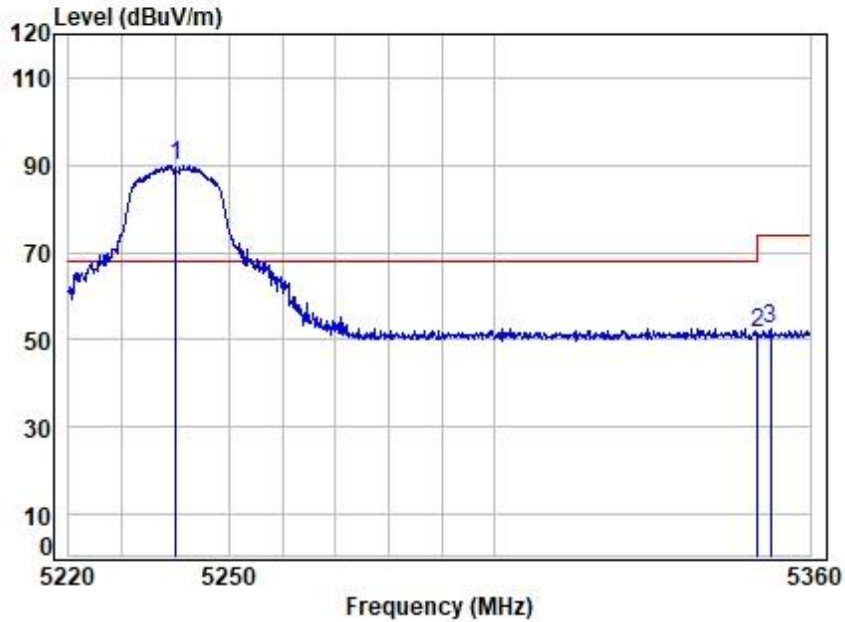


Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



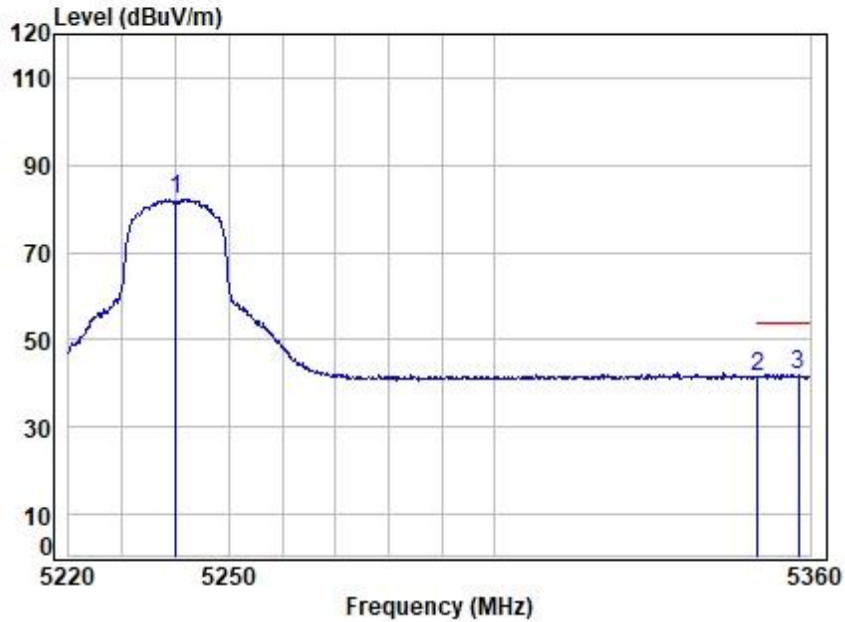
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5240 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.45	34.00	35.00	83.51	89.96	68.20	21.76	peak
2	5350.020	7.56	34.30	35.00	44.62	51.48	74.00	-22.52	peak
3	5352.487	7.56	34.31	35.00	45.41	52.28	74.00	-21.72	peak



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



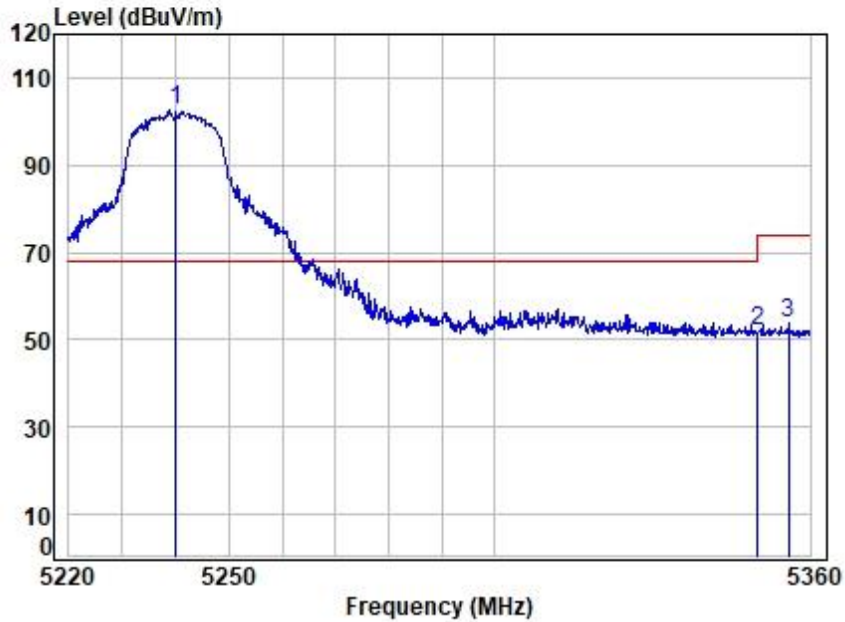
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5240 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.45	34.00	35.00	75.87	82.32	-----	-----	Average
2	5350.020	7.56	34.30	35.00	34.84	41.70	54.00	-12.30	Average
3	5357.873	7.57	34.33	35.00	35.14	42.04	54.00	-11.96	Average



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



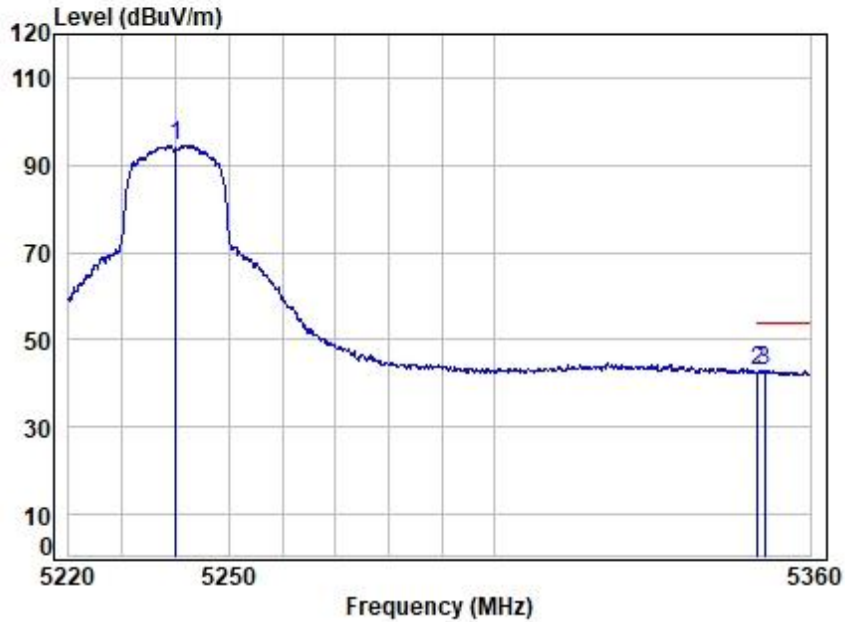
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5240 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.45	34.00	35.00	96.11	102.56	68.20	34.36	Peak
2	5350.020	7.56	34.30	35.00	45.05	51.91	74.00	-22.09	Peak
3	5355.888	7.57	34.32	35.00	46.80	53.69	74.00	-20.31	Peak



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



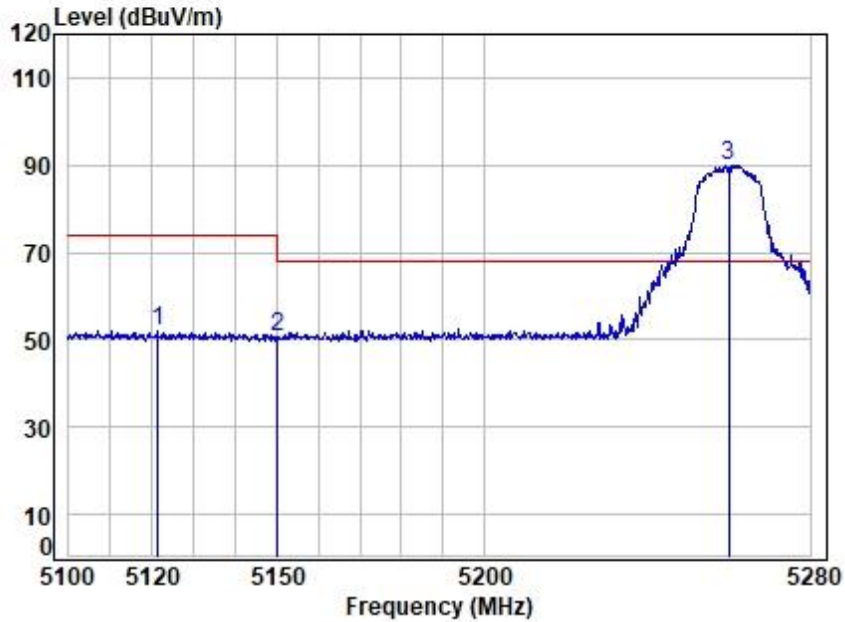
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5240 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.45	34.00	35.00	88.18	94.63	-----	-----	Average
2	5350.020	7.56	34.30	35.00	35.82	42.68	54.00	-11.32	Average
3	5351.354	7.56	34.31	35.00	36.12	42.99	54.00	-11.01	Average



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



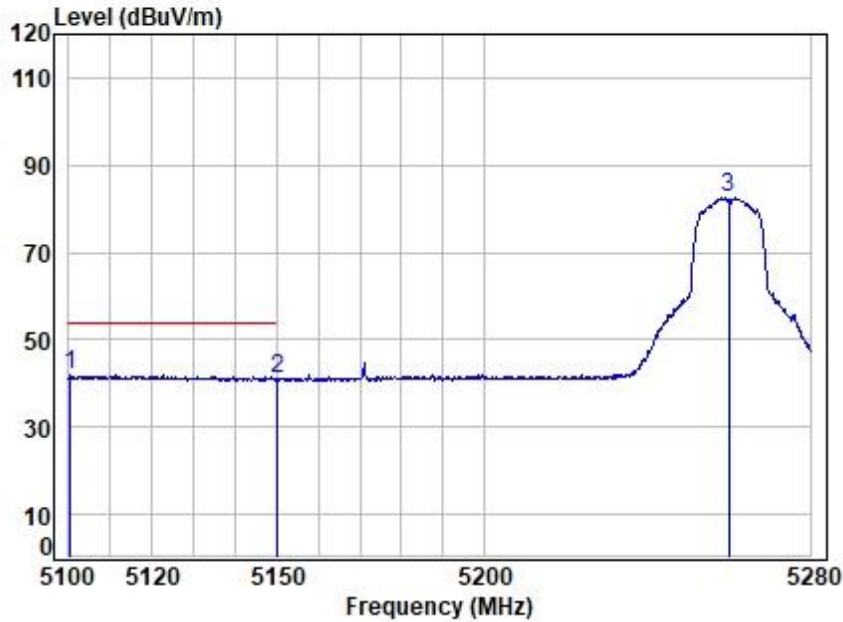
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5260 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5121.272	7.33	34.06	34.99	45.82	52.22	74.00	-21.78	peak
2	5149.980	7.36	34.00	34.99	44.40	50.77	74.00	-23.23	peak
3	5260.000	7.47	34.04	35.00	83.48	89.99	68.20	21.79	peak



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



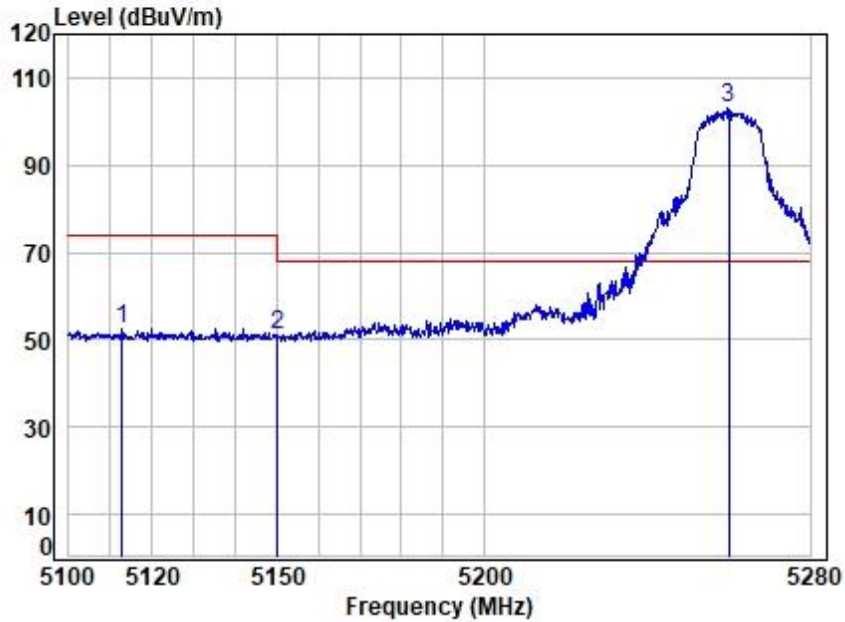
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5260 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5100.354	7.31	34.10	34.99	35.37	41.79	54.00	-12.21	Average
2	5149.980	7.36	34.00	34.99	34.66	41.03	54.00	-12.97	Average
3	5260.000	7.47	34.04	35.00	76.05	82.56	-----	-----	Average



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



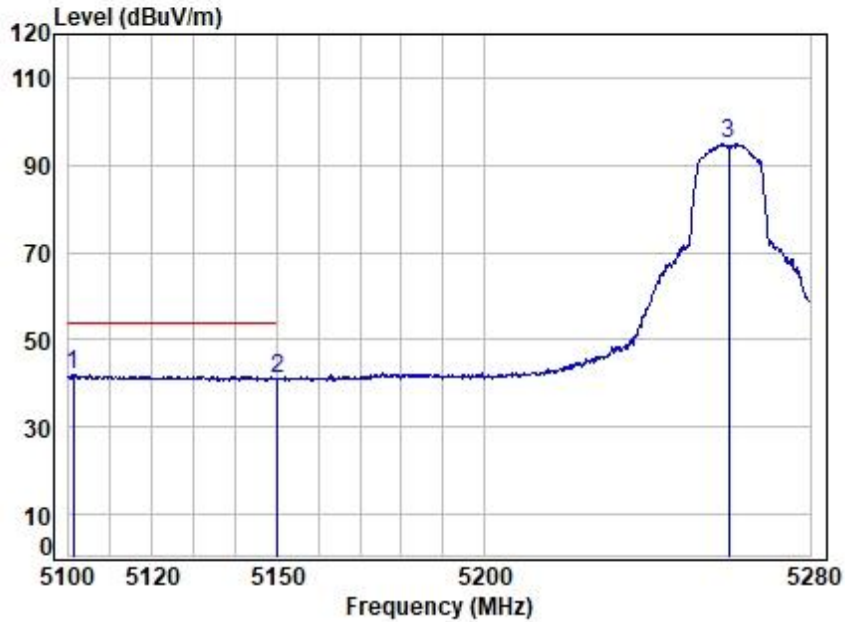
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5260 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5112.752	7.33	34.07	34.99	46.25	52.66	74.00	-21.34	Peak
2	5149.980	7.36	34.00	34.99	44.92	51.29	74.00	-22.71	Peak
3	5260.000	7.47	34.04	35.00	96.82	103.33	68.20	35.13	Peak



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

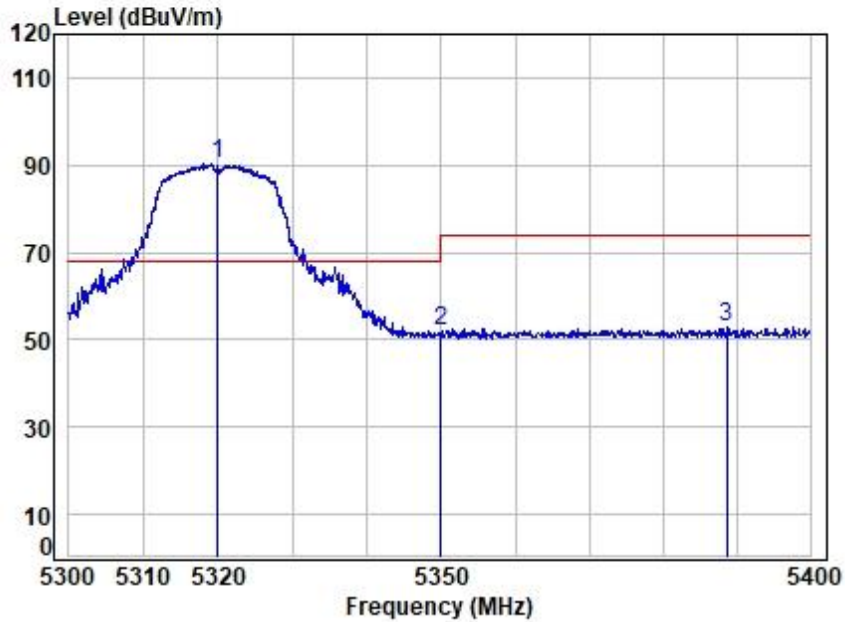


Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5260 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5101.062	7.31	34.10	34.99	35.48	41.90	54.00	-12.10	Average
2	5149.980	7.36	34.00	34.99	34.81	41.18	54.00	-12.82	Average
3	5260.000	7.47	34.04	35.00	88.53	95.04	-----	-----	Average



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



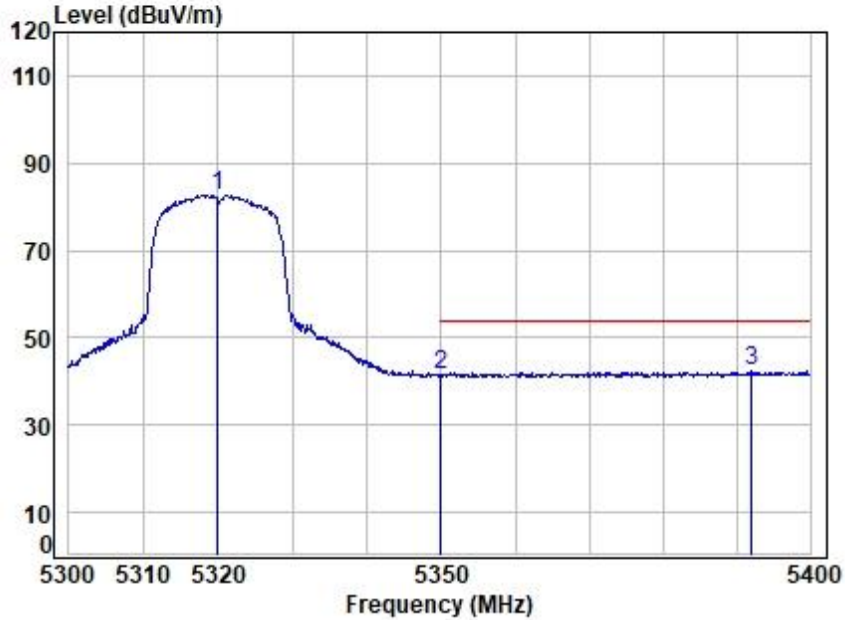
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5320 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.53	34.24	35.00	83.57	90.34	68.20	22.14	peak
2	5350.020	7.56	34.30	35.00	45.36	52.22	74.00	-21.78	peak
3	5388.606	7.60	34.45	35.00	45.93	52.98	74.00	-21.02	peak



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



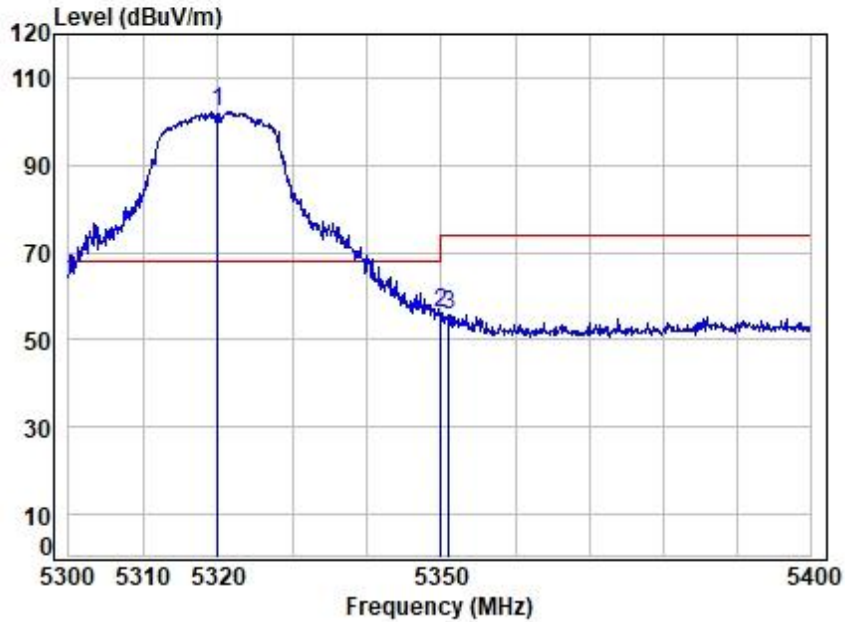
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5320 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.53	34.24	35.00	75.97	82.74	-----	-----	Average
2	5350.020	7.56	34.30	35.00	34.53	41.39	54.00	-12.61	Average
3	5392.032	7.60	34.47	35.00	35.20	42.27	54.00	-11.73	Average



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



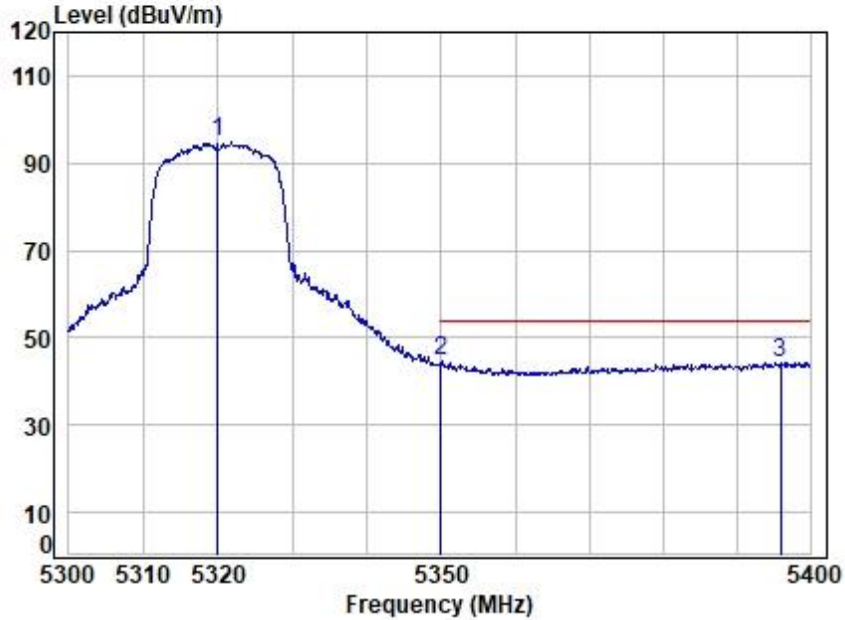
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5320 Band edge
 : 5G WIFI 11A

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5320.000	7.53	34.24	35.00	95.42	102.19	68.20	33.99	Peak
2 5350.020	7.56	34.30	35.00	49.25	56.11	74.00	-17.89	Peak
3 5351.066	7.56	34.30	35.00	48.69	55.55	74.00	-18.45	Peak



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



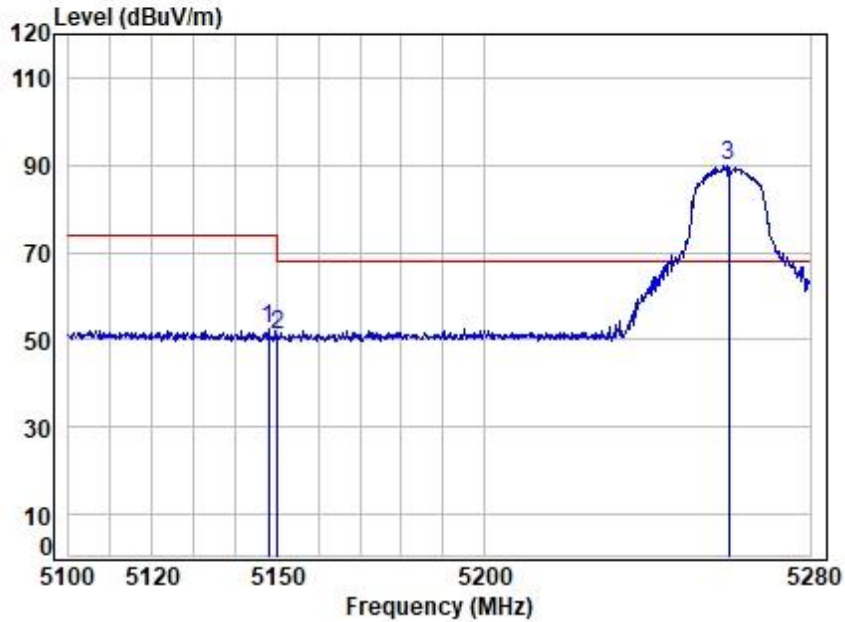
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5320 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.53	34.24	35.00	87.92	94.69	-----	-----	Average
2	5350.020	7.56	34.30	35.00	37.70	44.56	54.00	-9.44	Average
3	5395.964	7.61	34.48	35.01	37.20	44.28	54.00	-9.72	Average



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



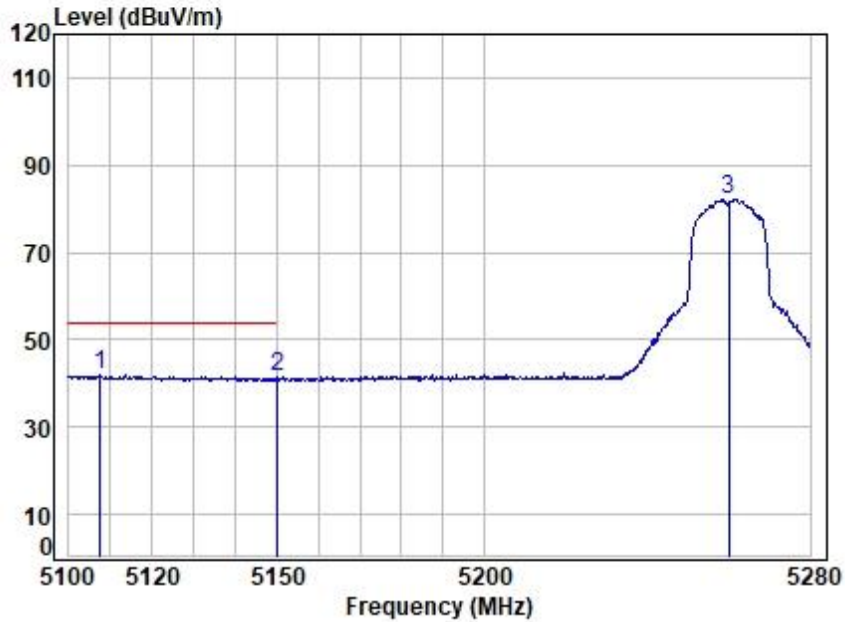
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5260 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.808	7.36	34.00	34.99	46.23	52.60	74.00	-21.40	peak
2	5149.980	7.36	34.00	34.99	44.59	50.96	74.00	-23.04	peak
3	5260.000	7.47	34.04	35.00	83.40	89.91	68.20	21.71	peak



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



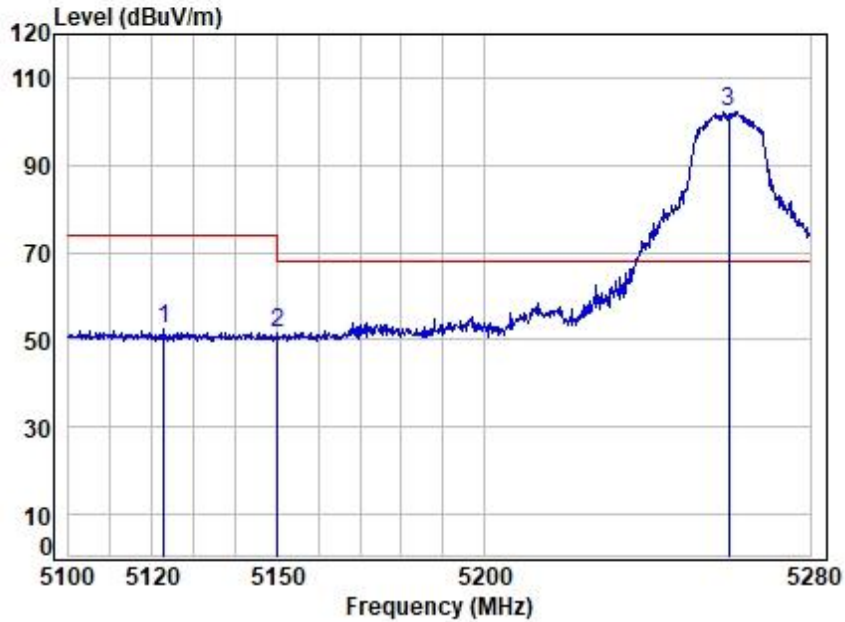
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5260 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5107.612	7.32	34.08	34.99	35.75	42.16	54.00	-11.84	Average
2	5149.980	7.36	34.00	34.99	34.95	41.32	54.00	-12.68	Average
3	5260.000	7.47	34.04	35.00	75.79	82.30	-----	-----	Average



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



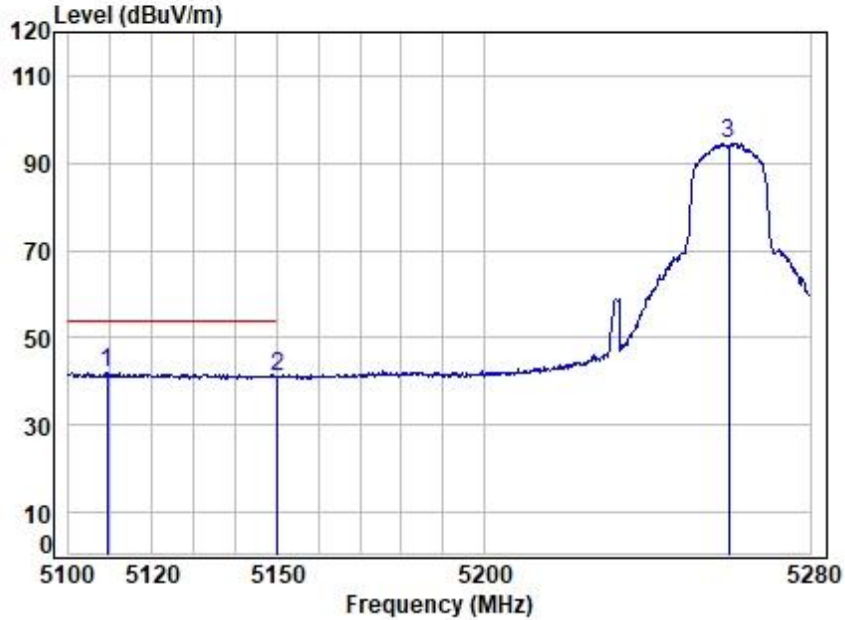
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5260 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5122.871	7.34	34.05	34.99	45.89	52.29	74.00	-21.71	Peak
2	5149.980	7.36	34.00	34.99	45.21	51.58	74.00	-22.42	Peak
3	5260.000	7.47	34.04	35.00	95.90	102.41	68.20	34.21	Peak



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



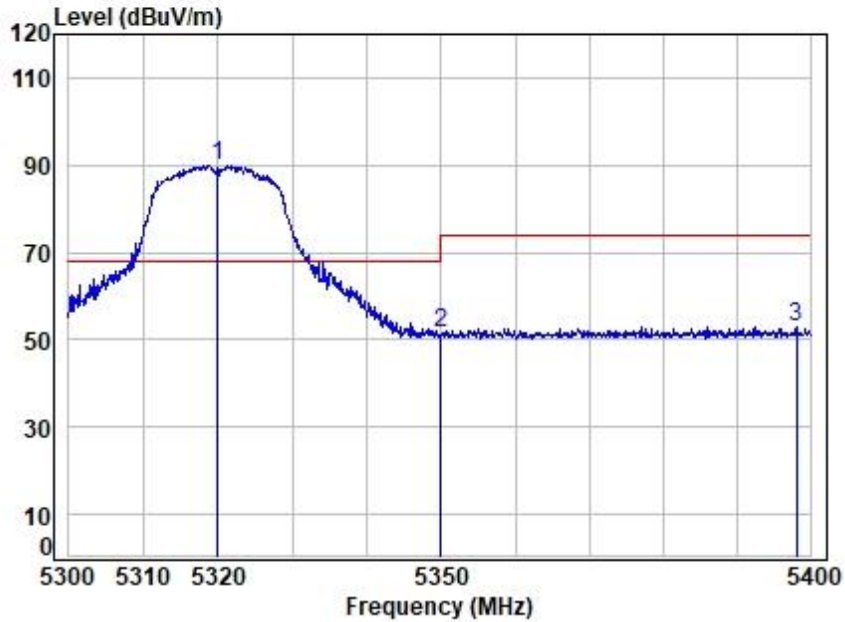
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5260 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5109.207	7.32	34.08	34.99	35.56	41.97	54.00	-12.03	Average
2	5149.980	7.36	34.00	34.99	34.87	41.24	54.00	-12.76	Average
3	5260.000	7.47	34.04	35.00	88.04	94.55	-----	-----	Average



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



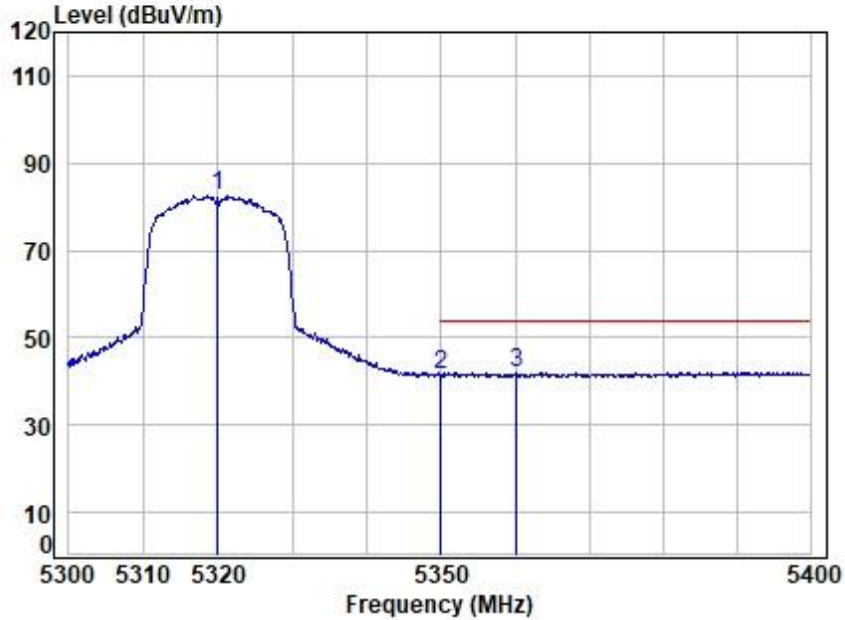
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5320 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.53	34.24	35.00	83.28	90.05	68.20	21.85	peak
2	5350.020	7.56	34.30	35.00	44.51	51.37	74.00	-22.63	peak
3	5398.184	7.61	34.49	35.01	45.95	53.04	74.00	-20.96	peak



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



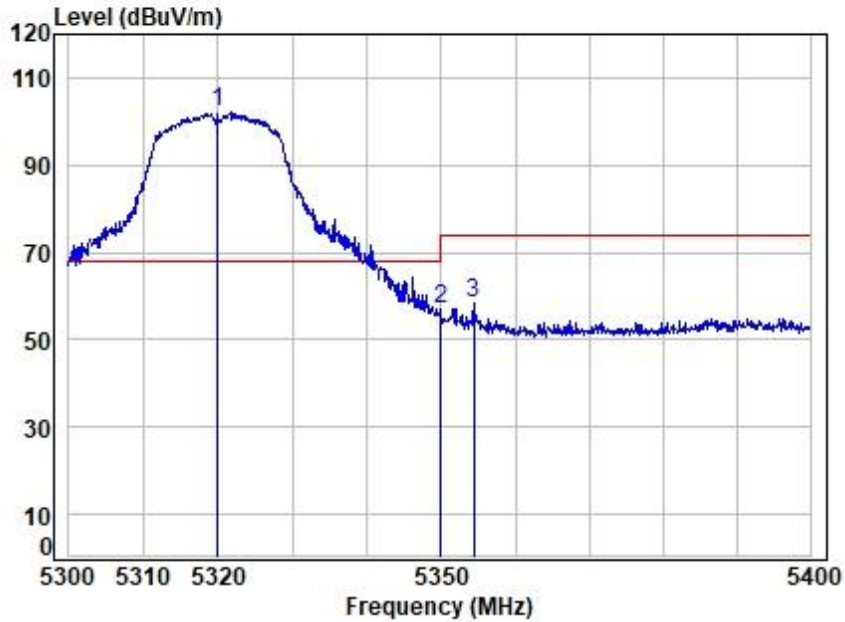
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5320 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.53	34.24	35.00	75.74	82.51	-----	-----	Average
2	5350.020	7.56	34.30	35.00	34.73	41.59	54.00	-12.41	Average
3	5360.176	7.57	34.34	35.00	35.29	42.20	54.00	-11.80	Average



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



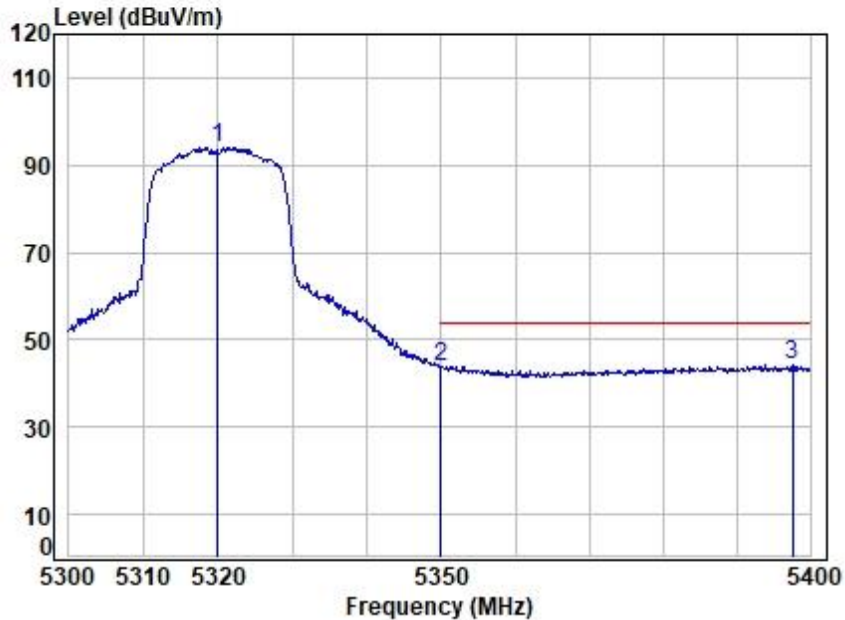
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5320 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.53	34.24	35.00	95.23	102.00	68.20	33.80	Peak
2	5350.020	7.56	34.30	35.00	50.08	56.94	74.00	-17.06	Peak
3	5354.368	7.57	34.32	35.00	51.52	58.41	74.00	-15.59	Peak



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



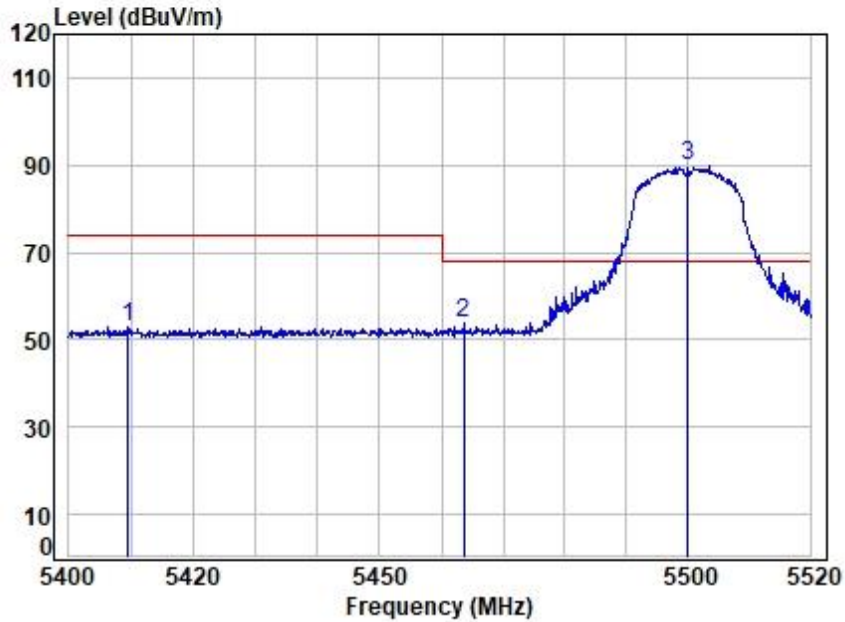
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5320 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.53	34.24	35.00	87.43	94.20	-----	-----	Average
2	5350.020	7.56	34.30	35.00	36.96	43.82	54.00	-10.18	Average
3	5397.679	7.61	34.49	35.01	37.07	44.16	54.00	-9.84	Average



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



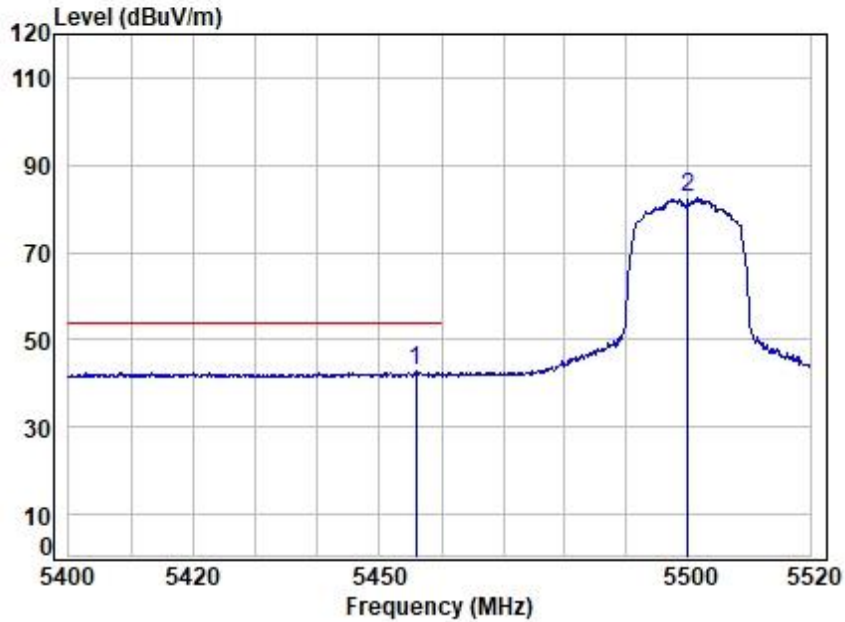
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5500 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5409.503	7.62	34.52	35.01	45.80	52.93	74.00	-21.07	peak
2	5463.632	7.67	34.60	35.01	46.52	53.78	68.20	-14.42	peak
3	5500.000	7.71	34.60	35.01	82.69	89.99	68.20	21.79	peak



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



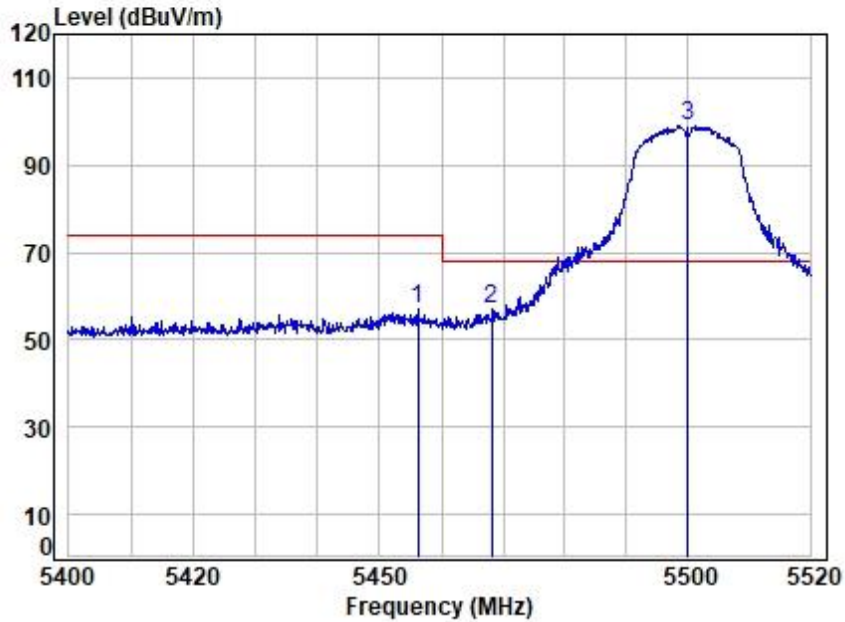
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5500 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5455.952	7.66	34.60	35.01	35.47	42.72	54.00	-11.28	Average
2	5500.000	7.71	34.60	35.01	75.08	82.38	-----	-----	Average



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



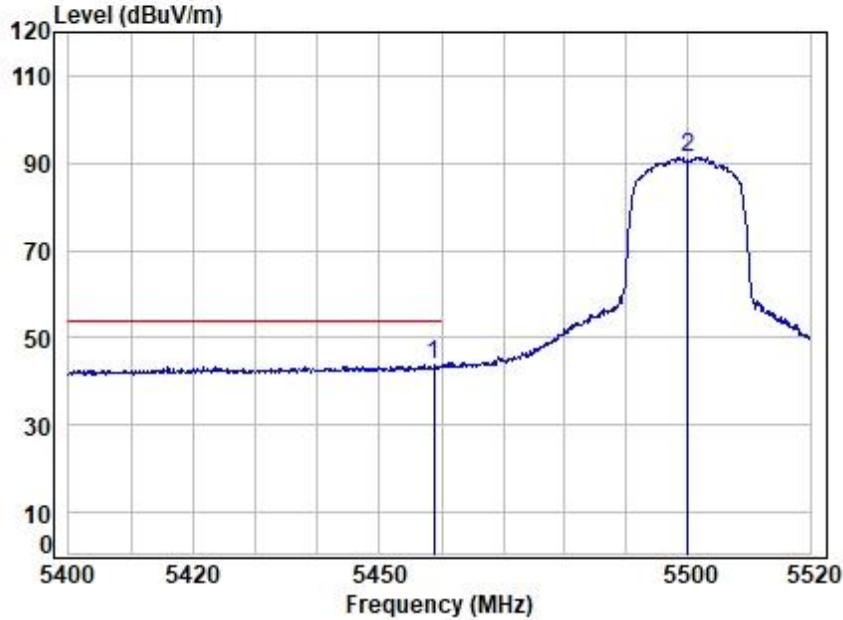
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5500 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5456.191	7.66	34.60	35.01	49.84	57.09	74.00	-16.91	Peak
2	5468.197	7.68	34.60	35.01	49.70	56.97	68.20	-11.23	peak
3	5500.000	7.71	34.60	35.01	91.64	98.94	68.20	30.74	Peak



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



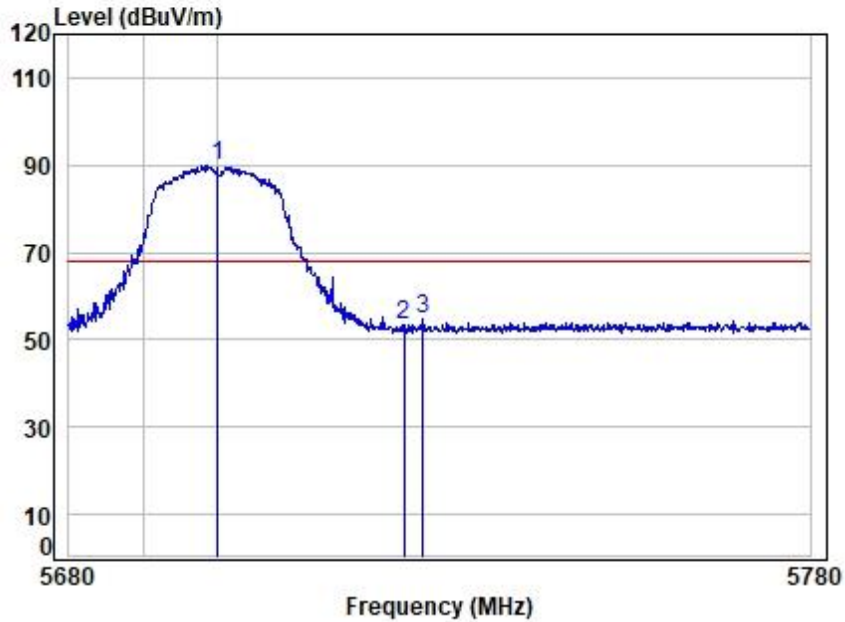
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5500 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5458.831	7.67	34.60	35.01	36.69	43.95	54.00	-10.05	Average
2	5500.000	7.71	34.60	35.01	84.14	91.44	-----	-----	Average



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



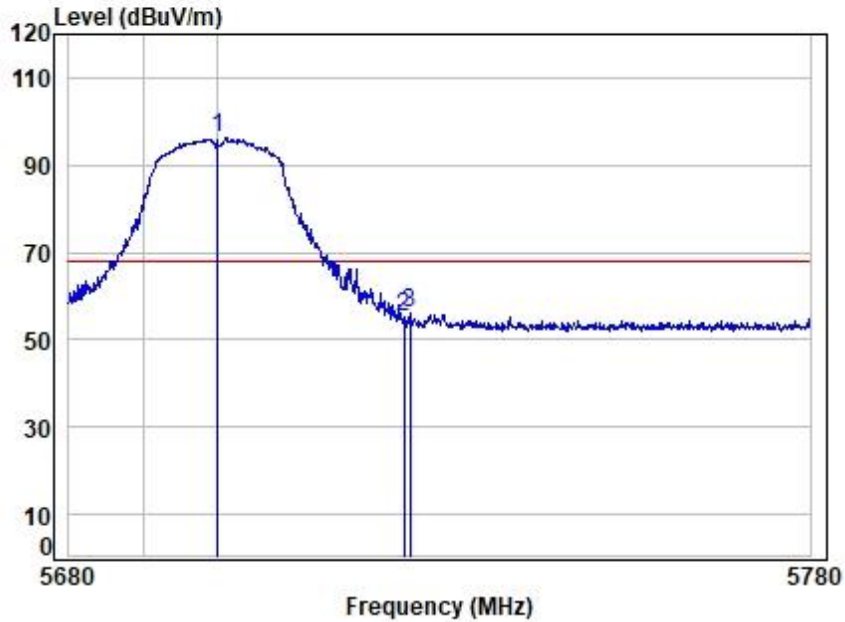
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5700 Band edge
 : 5G WIFI 11A

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5700.000	7.89	34.50	35.02	82.35	89.72	68.20	21.52	peak
2 5725.000	7.92	34.50	35.02	45.96	53.36	68.20	-14.84	peak
3 5727.583	7.92	34.50	35.02	47.18	54.58	68.20	-13.62	peak



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



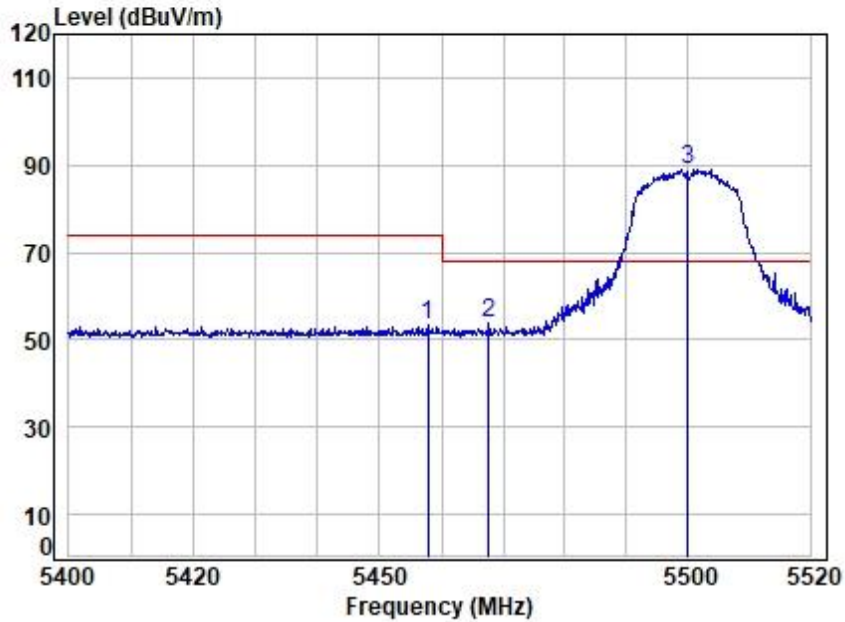
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5700 Band edge
 : 5G WIFI 11A

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5700.000	7.89	34.50	35.02	88.94	96.31	68.20	28.11	Peak
2 5725.000	7.92	34.50	35.02	47.90	55.30	68.20	-12.90	Peak
3 5725.783	7.92	34.50	35.02	48.51	55.91	68.20	-12.29	Peak



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



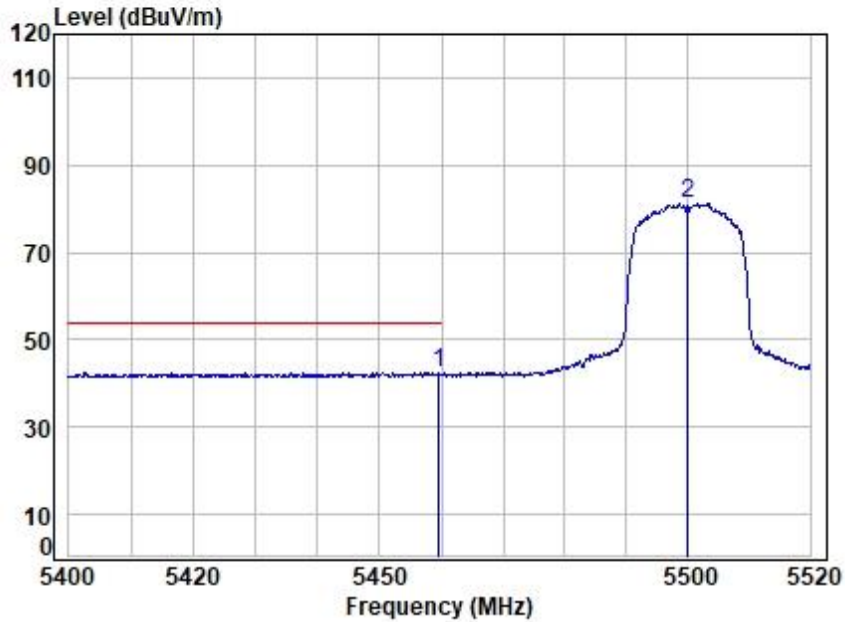
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5500 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5457.750	7.67	34.60	35.01	45.91	53.17	74.00	-20.83	peak
2	5467.596	7.68	34.60	35.01	46.35	53.62	68.20	-14.58	peak
3	5500.000	7.71	34.60	35.01	81.59	88.89	68.20	20.69	peak



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



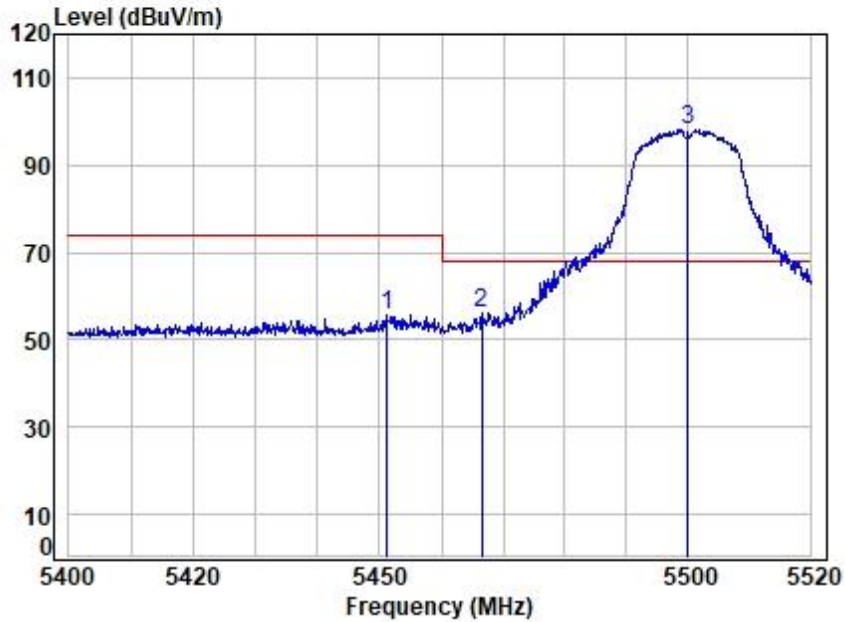
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5500 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.670	7.67	34.60	35.01	35.40	42.66	54.00	-11.34	Average
2	5500.000	7.71	34.60	35.01	73.98	81.28	-----	-----	Average



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



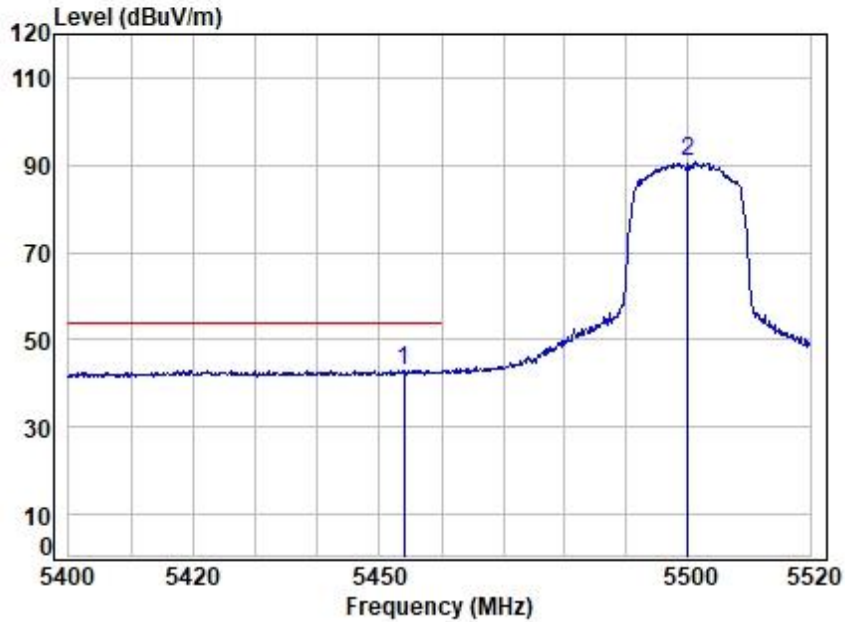
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5500 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5451.157	7.66	34.60	35.01	48.33	55.58	74.00	-18.42	Peak
2	5466.515	7.67	34.60	35.01	48.90	56.16	68.20	-12.04	peak
3	5500.000	7.71	34.60	35.01	90.93	98.23	68.20	30.03	Peak



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



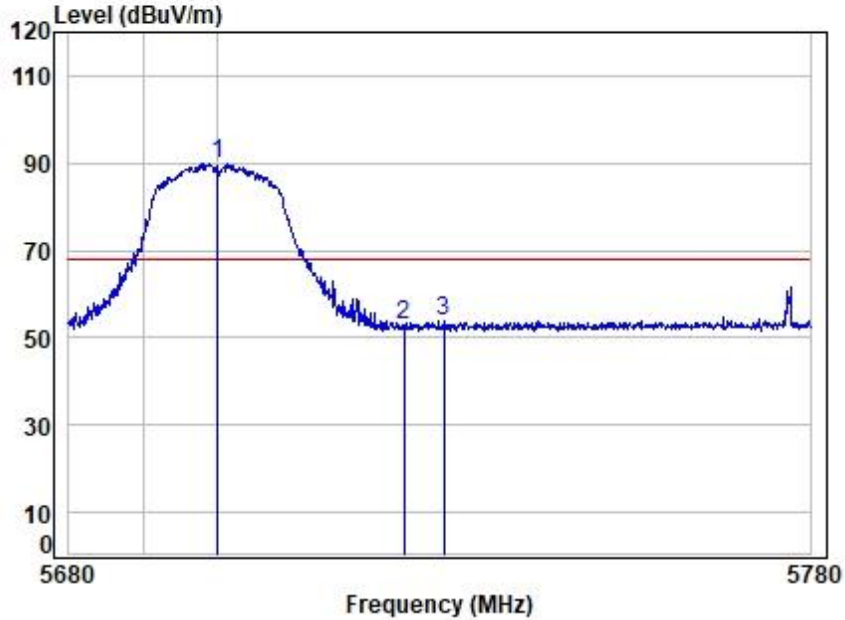
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5500 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5453.914	7.66	34.60	35.01	35.76	43.01	54.00	-10.99	Average
2	5500.000	7.71	34.60	35.01	83.40	90.70	-----	-----	Average



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



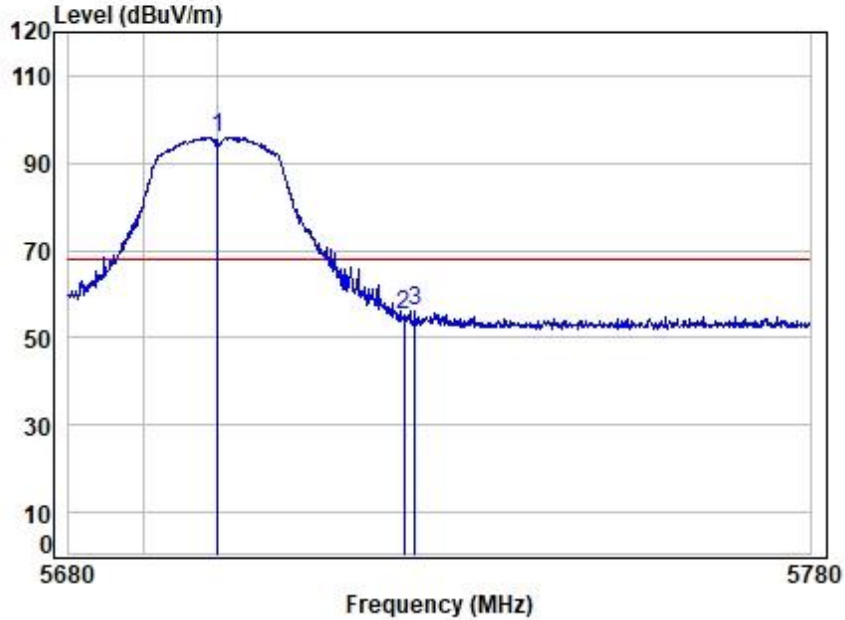
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5700 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5700.000	7.89	34.50	35.02	82.54	89.91	68.20	21.71	peak
2	5725.000	7.92	34.50	35.02	45.68	53.08	68.20	-15.12	peak
3	5730.382	7.92	34.50	35.02	46.44	53.84	68.20	-14.36	peak



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



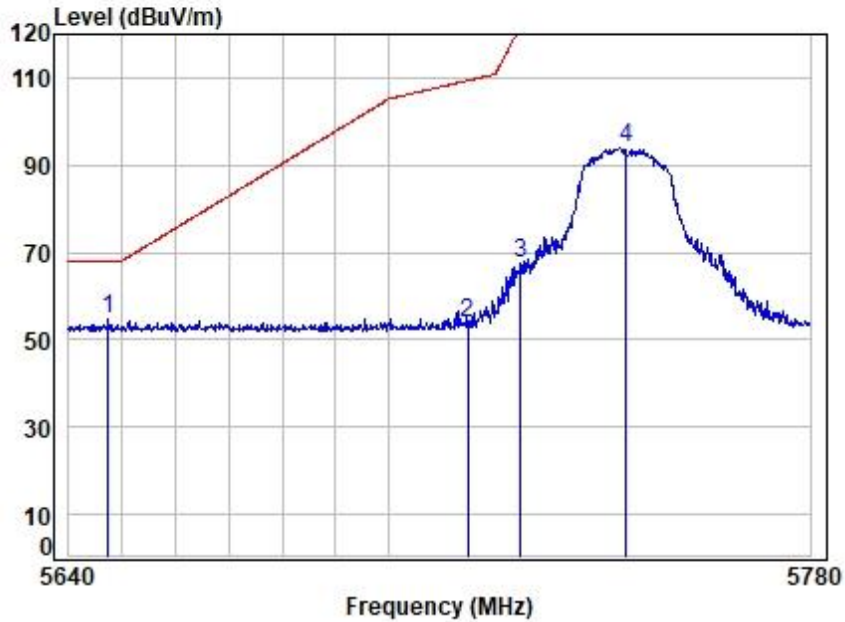
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5700 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5700.000	7.89	34.50	35.02	88.63	96.00	68.20	27.80	Peak
2	5725.000	7.92	34.50	35.02	47.99	55.39	68.20	-12.81	Peak
3	5726.483	7.92	34.50	35.02	48.85	56.25	68.20	-11.95	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



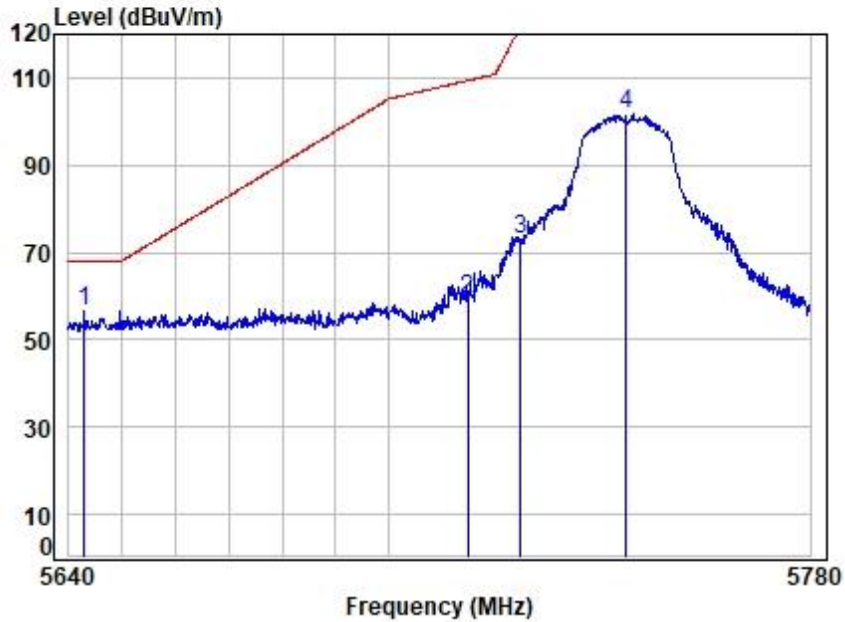
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5745 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5647.334	7.84	34.50	35.02	47.63	54.95	68.20	-13.25 peak
2	5715.000	7.91	34.50	35.02	46.26	53.65	109.40	-55.75 peak
3	5725.000	7.92	34.50	35.02	60.08	67.48	122.20	-54.72 peak
4	5745.000	7.93	34.50	35.03	86.77	94.17	-----	----- peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



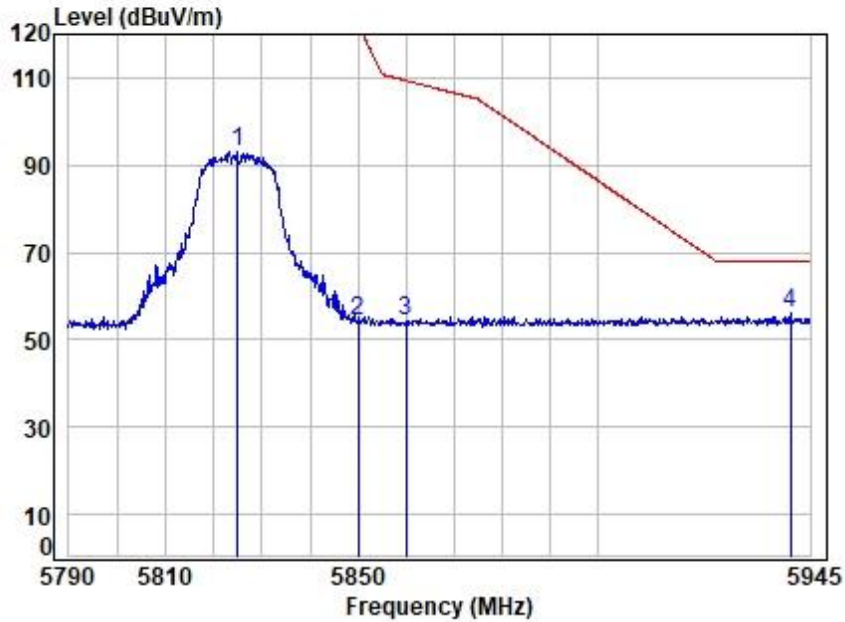
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5745 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5642.905	7.84	34.50	35.02	49.26	56.58	68.20	-11.62 peak
2	5715.000	7.91	34.50	35.02	52.12	59.51	109.40	-49.89 peak
3	5725.000	7.92	34.50	35.02	65.73	73.13	122.20	-49.07 peak
4	5745.000	7.93	34.50	35.03	94.26	101.66	-----	----- peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



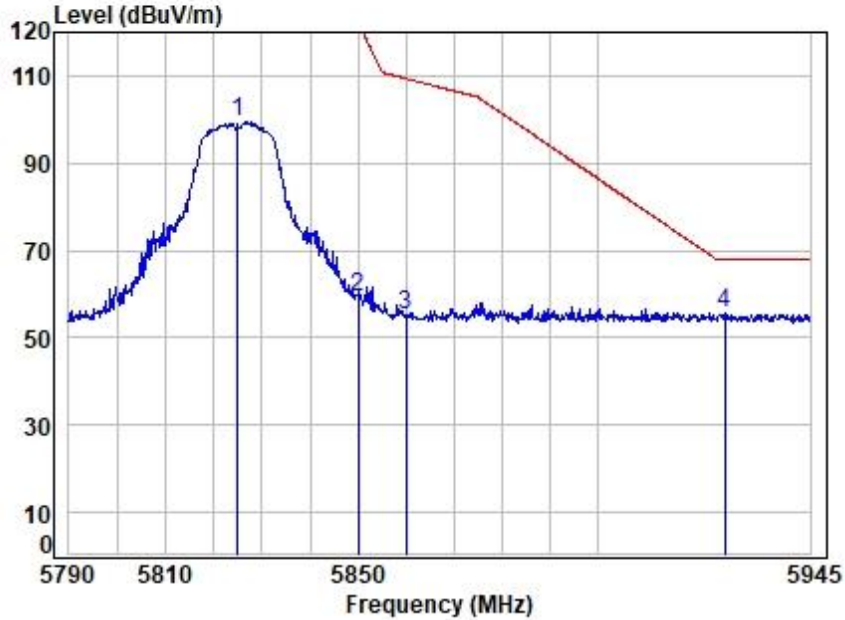
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5825 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.01	34.65	35.03	85.55	93.18	-----	-----	peak
2	5850.000	8.03	34.70	35.03	46.66	54.36	122.20	-67.84	peak
3	5860.000	8.04	34.72	35.03	46.42	54.15	109.40	-55.25	peak
4	5940.761	8.11	34.88	35.04	48.05	56.00	68.20	-12.20	peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



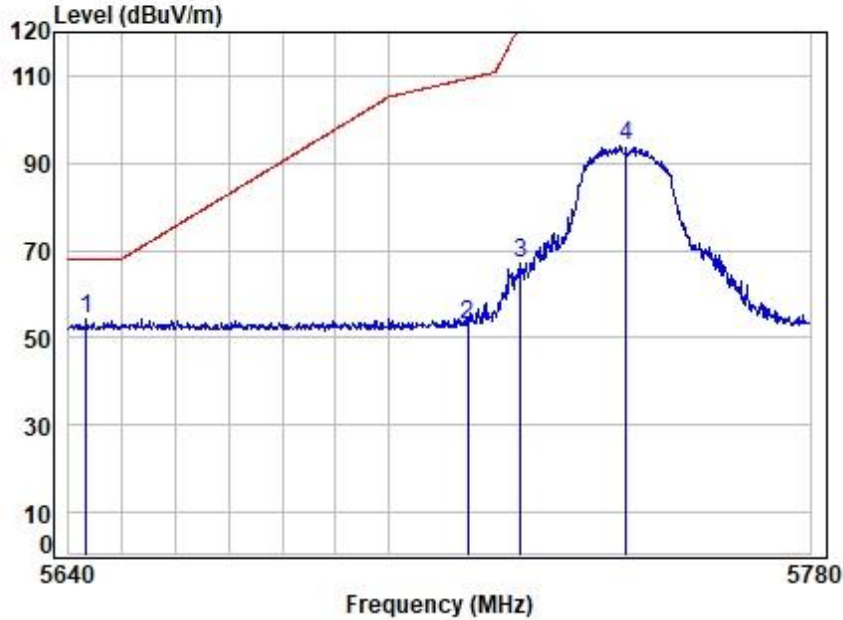
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5825 Band edge
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5825.000	8.01	34.65	35.03	91.72	99.35	-----	peak
2	5850.000	8.03	34.70	35.03	51.56	59.26	122.20	-62.94 peak
3	5860.000	8.04	34.72	35.03	47.53	55.26	109.40	-54.14 peak
4	5926.966	8.10	34.85	35.04	47.98	55.89	68.20	-12.31 peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



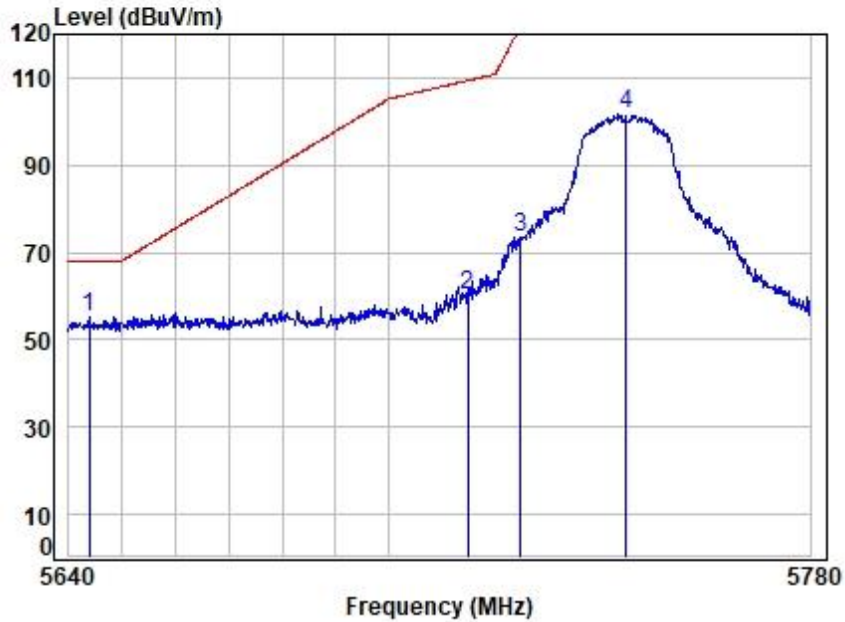
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5745 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5643.182	7.84	34.50	35.02	46.93	54.25	68.20	-13.95 peak
2	5715.000	7.91	34.50	35.02	45.72	53.11	109.40	-56.29 peak
3	5725.000	7.92	34.50	35.02	59.70	67.10	122.20	-55.10 peak
4	5745.000	7.93	34.50	35.03	86.42	93.82	-----	----- peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



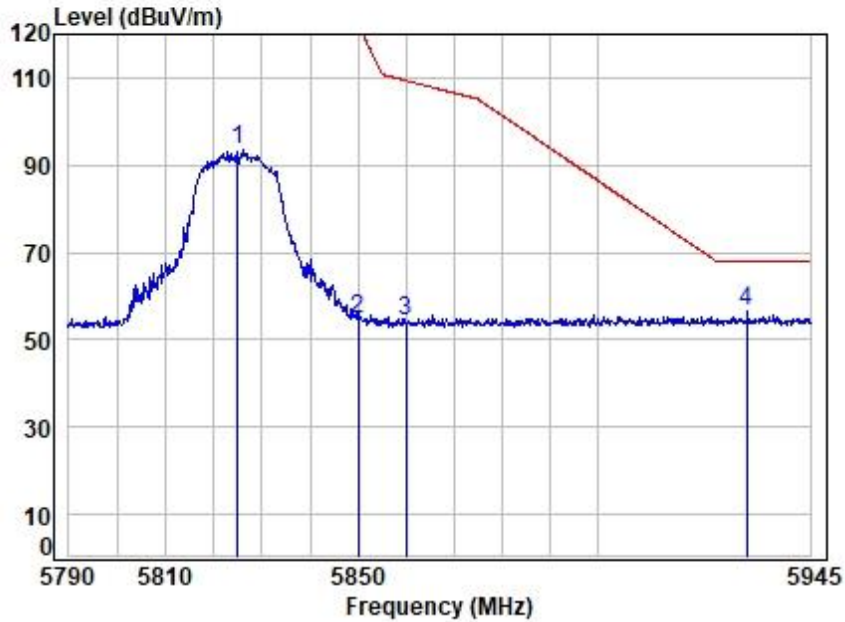
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5745 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5643.874	7.84	34.50	35.02	48.07	55.39	68.20	-12.81 peak
2	5715.000	7.91	34.50	35.02	52.70	60.09	109.40	-49.31 peak
3	5725.000	7.92	34.50	35.02	66.28	73.68	122.20	-48.52 peak
4	5745.000	7.93	34.50	35.03	94.24	101.64	-----	----- peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



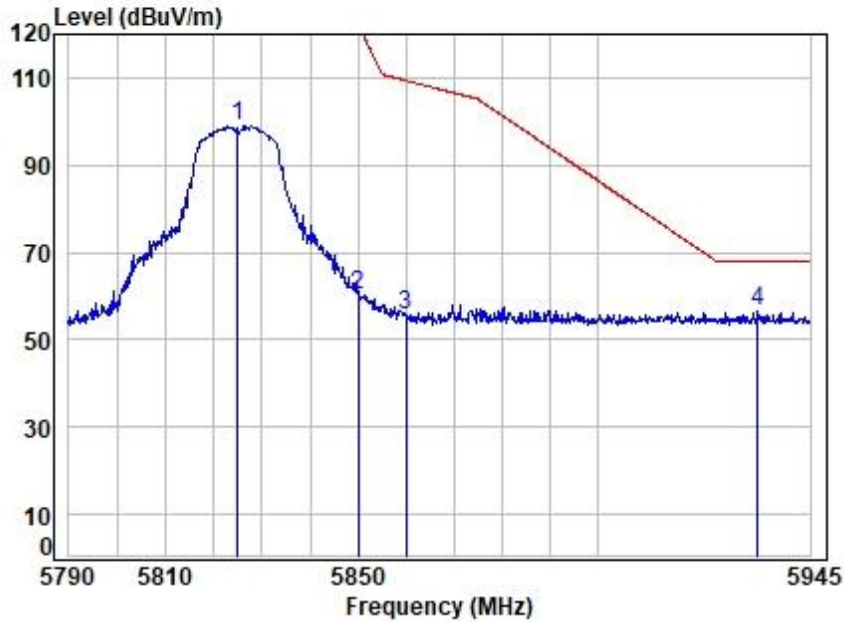
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00611AT/00612AT
 Mode : 5825 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.01	34.65	35.03	85.77	93.40	-----	-----	peak
2	5850.000	8.03	34.70	35.03	47.11	54.81	122.20	-67.39	peak
3	5860.000	8.04	34.72	35.03	46.76	54.49	109.40	-54.91	peak
4	5931.665	8.10	34.86	35.04	48.79	56.71	68.20	-11.49	peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00611AT/00612AT
 Mode : 5825 Band edge
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.01	34.65	35.03	91.35	98.98	-----	-----	peak
2	5850.000	8.03	34.70	35.03	52.63	60.33	122.20	-61.87	peak
3	5860.000	8.04	34.72	35.03	48.11	55.84	109.40	-53.56	peak
4	5933.859	8.10	34.87	35.04	48.46	56.39	68.20	-11.81	peak



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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: 25.1 °C Humidity: 57.2 % RH Atmospheric Pressure: 1015 mbar

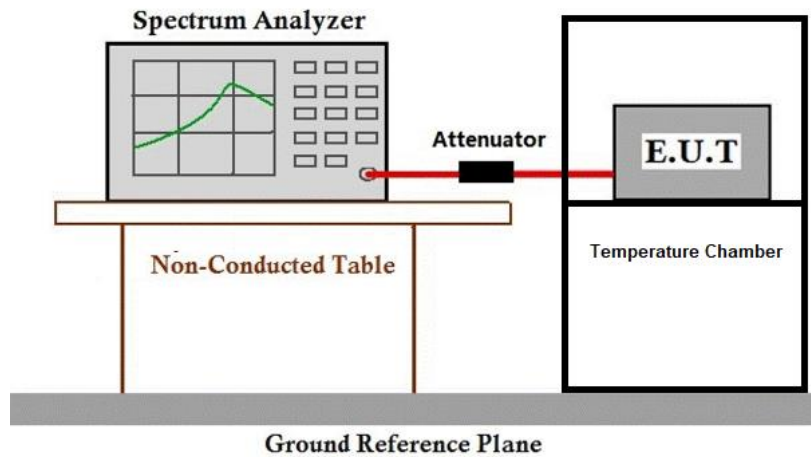
7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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(HT20), 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	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(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-2C)_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(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	05	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(HT20), 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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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.12 Channel Move Time

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

Limit:

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

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

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

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

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 67.9 % RH Atmospheric Pressure: 1015 mbar

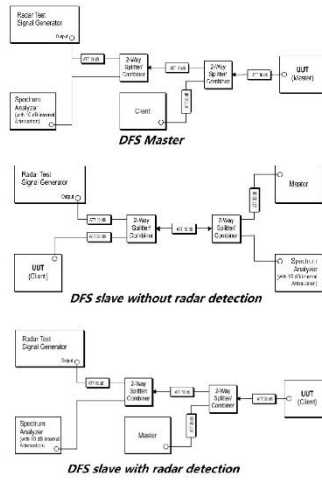


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7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Normal operating_Keep the EUT communication with the companion device.

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.

Please Refer to Appendix for Details



7.13 Channel Closing Transmission Time

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

Limit:

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

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

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

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

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 67.9 % RH Atmospheric Pressure: 1010 mbar

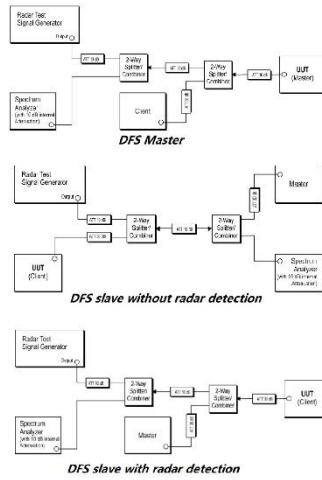


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7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



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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.

Please Refer to Appendix for Details



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2303000611AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2303000611AT



10 Appendix

1. Duty Cycle

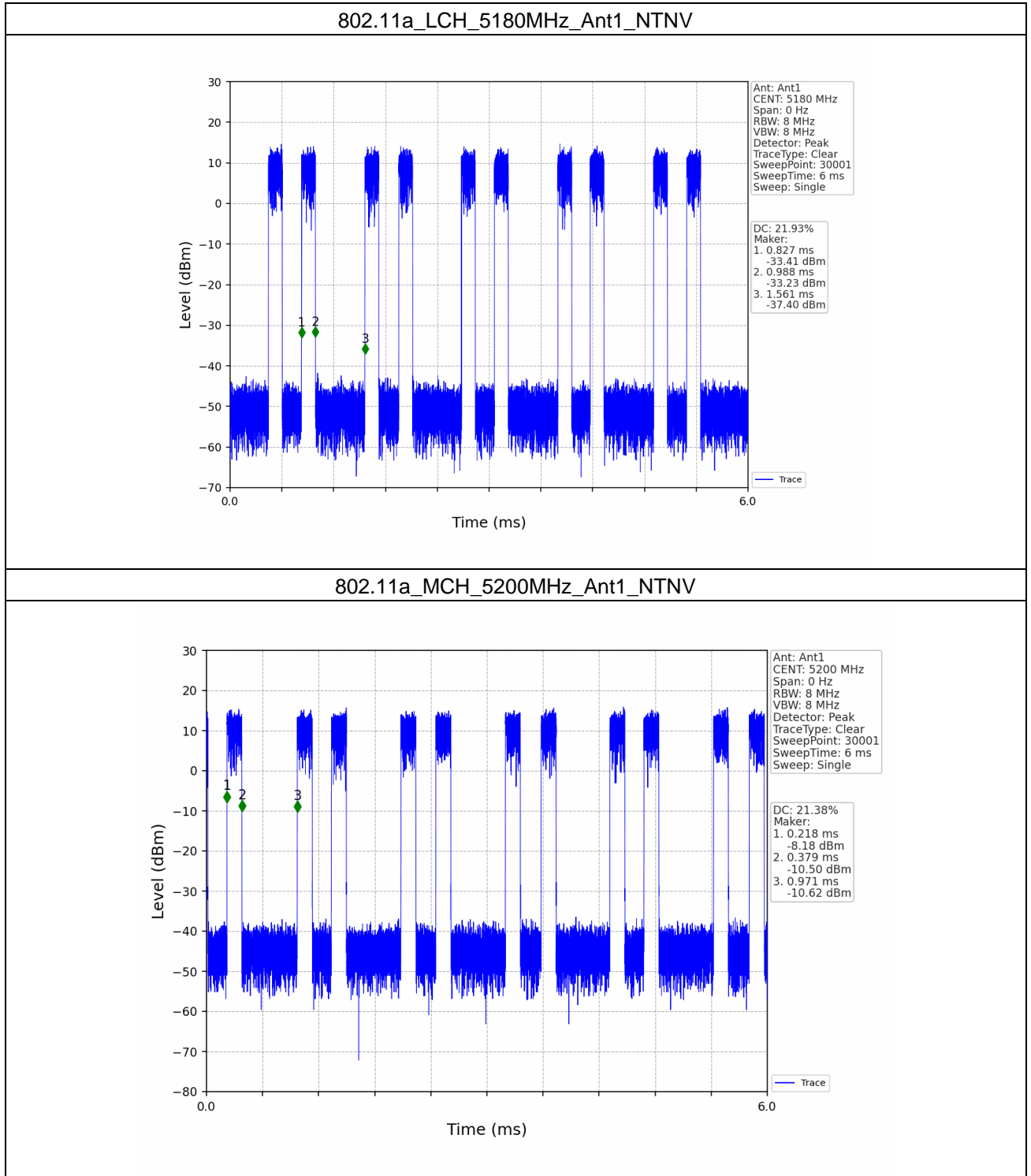
1.1 Ant1

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	0.161	0.734	21.93	6.59	21.21
		5200	0.161	0.753	21.38	6.70	22.72
		5240	0.161	0.735	21.90	6.59	21.19
		5260	0.161	0.744	21.64	6.65	21.48
		5300	0.161	0.744	21.64	6.65	21.40
		5320	0.161	0.735	21.90	6.59	22.25
		5500	0.161	0.744	21.64	6.65	22.52
		5580	0.161	0.744	21.64	6.65	21.40
		5700	0.161	0.744	21.64	6.65	22.44
		5745	0.160	0.743	21.53	6.67	22.52
		5785	0.160	0.735	21.77	6.62	22.14
		5825	0.161	0.735	21.90	6.59	21.16
802.11n (HT20)	SISO	5180	0.161	0.744	21.64	6.65	22.49
		5200	0.160	0.735	21.77	6.62	22.23
		5240	0.161	0.834	19.30	7.14	22.73
		5260	0.161	0.762	21.13	6.75	25.48
		5300	0.161	0.744	21.64	6.65	22.49
		5320	0.161	0.753	21.38	6.70	22.75
		5500	0.160	0.744	21.51	6.67	21.48
		5580	0.160	0.744	21.51	6.67	22.43
		5700	0.161	0.744	21.64	6.65	22.41
		5745	0.162	0.798	20.30	6.92	29.01
		5785	0.161	0.555	29.01	5.37	22.73
		5825	0.161	0.735	21.90	6.59	20.07



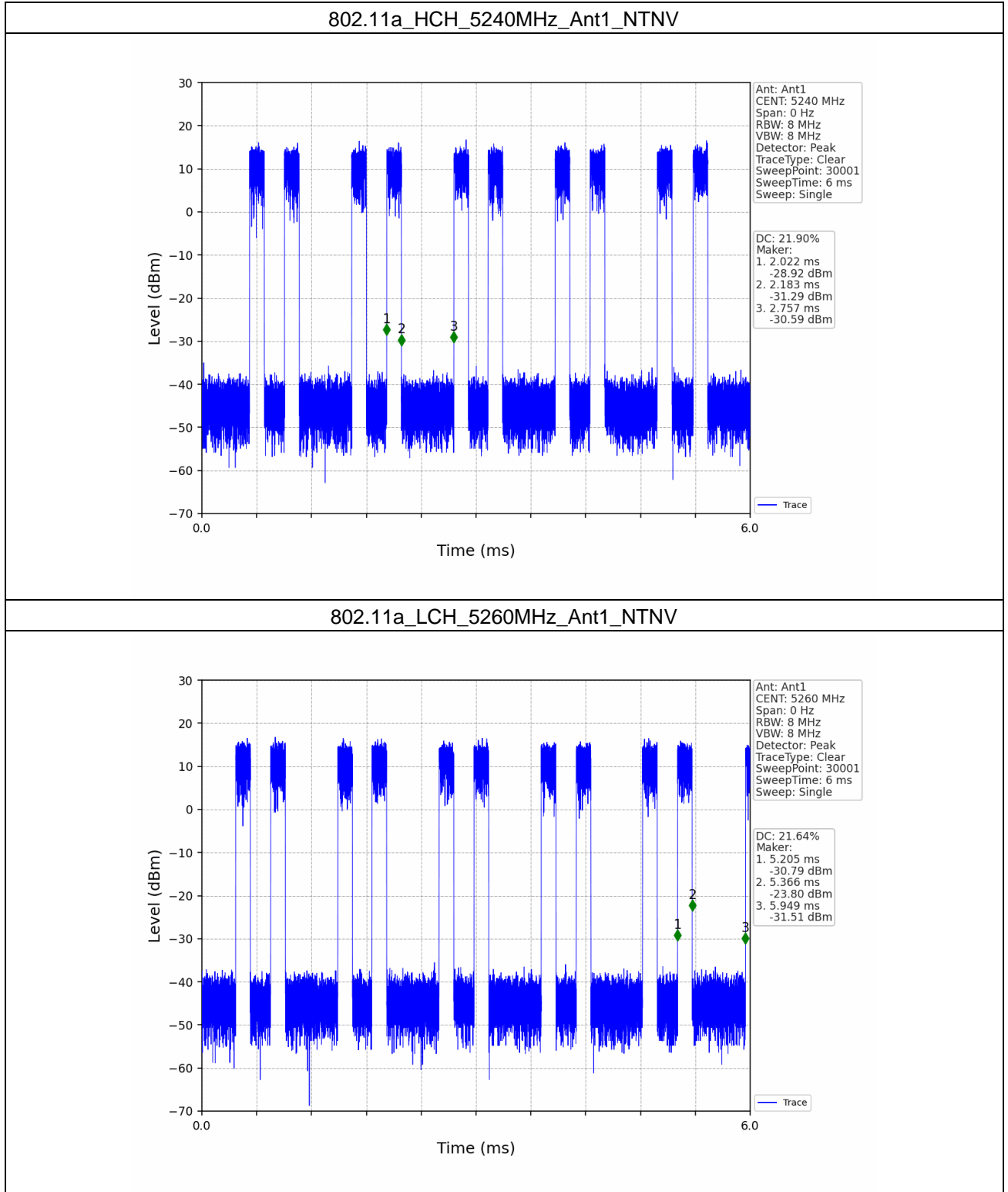
1.1.2 Test Graph



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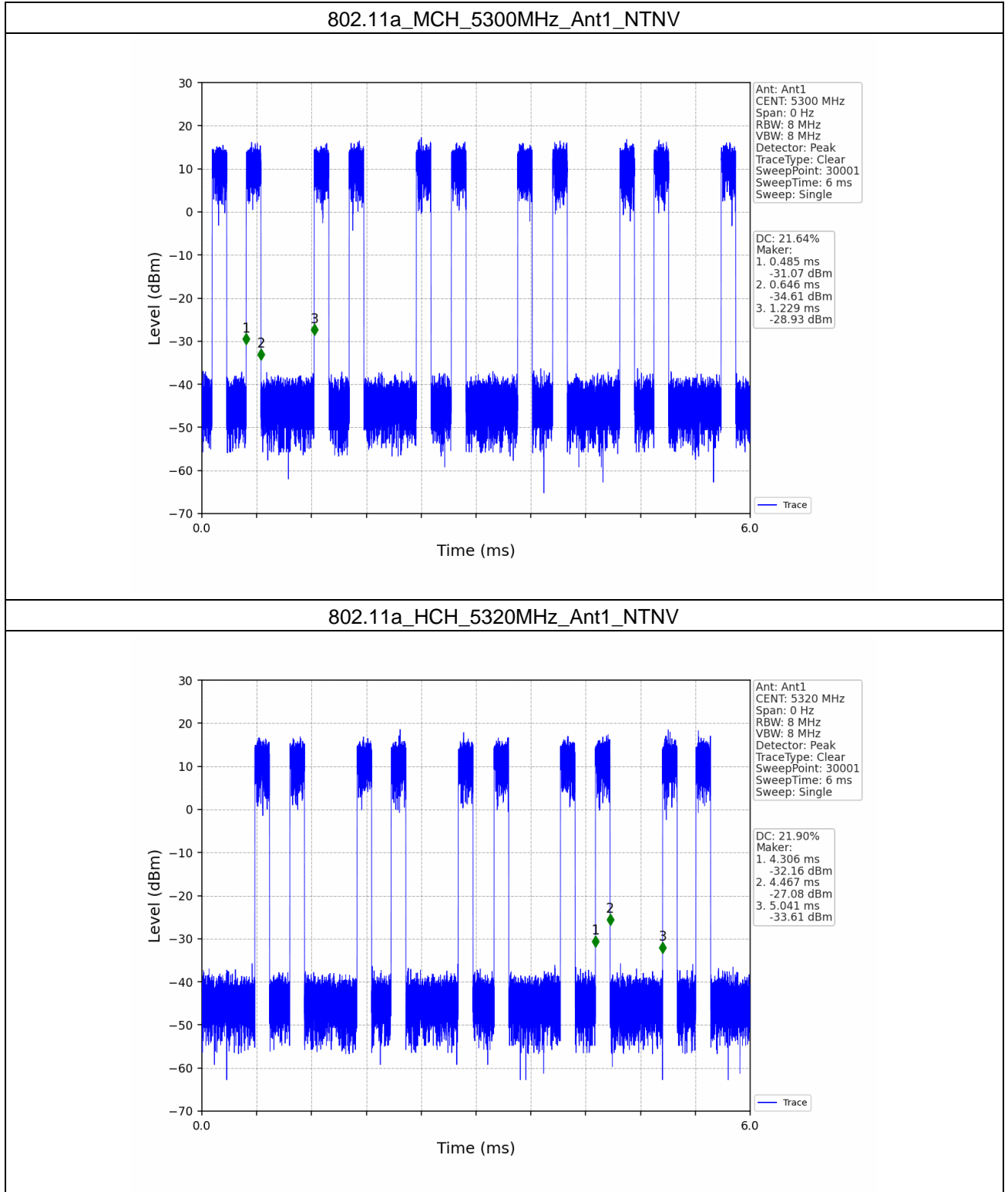
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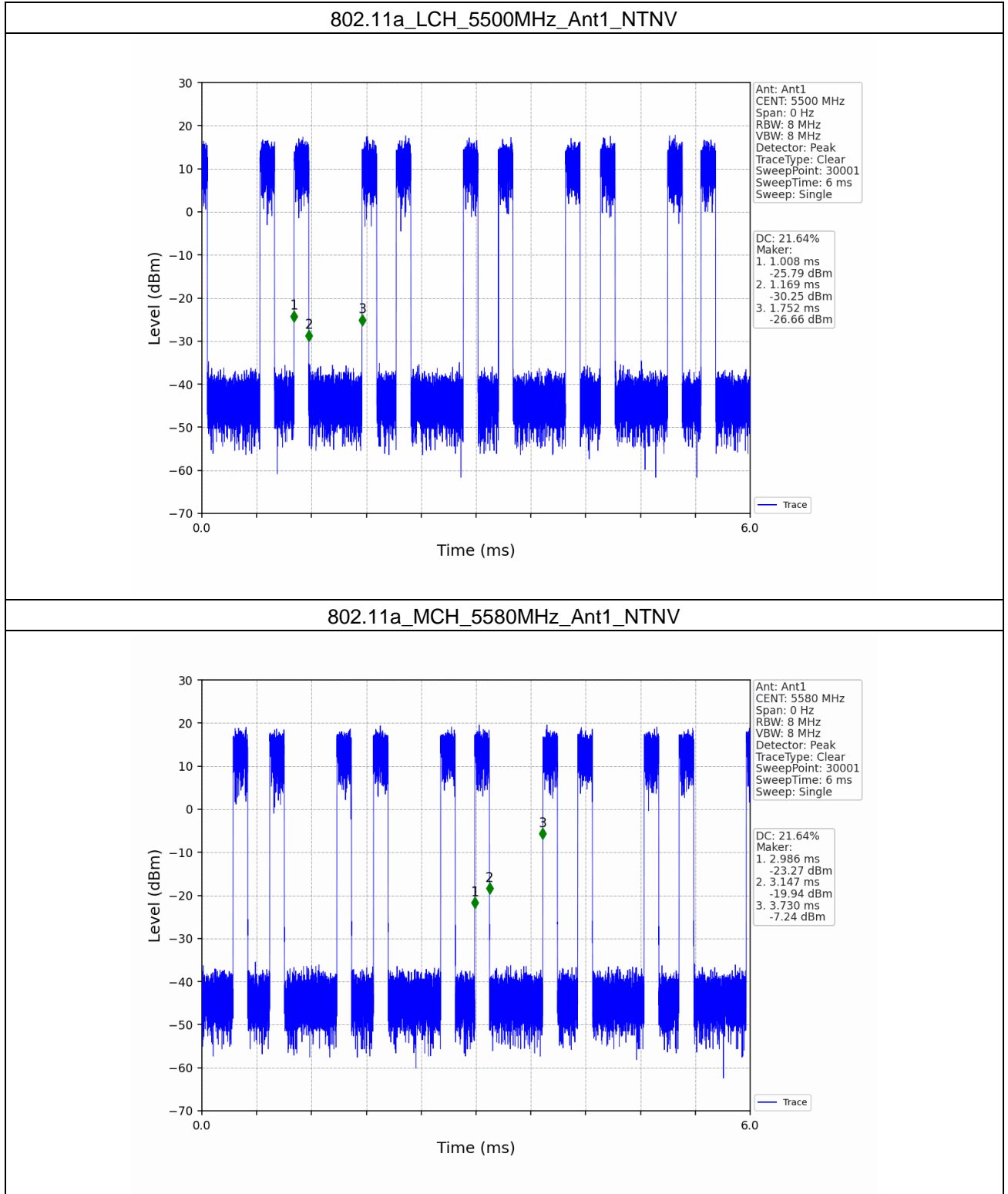
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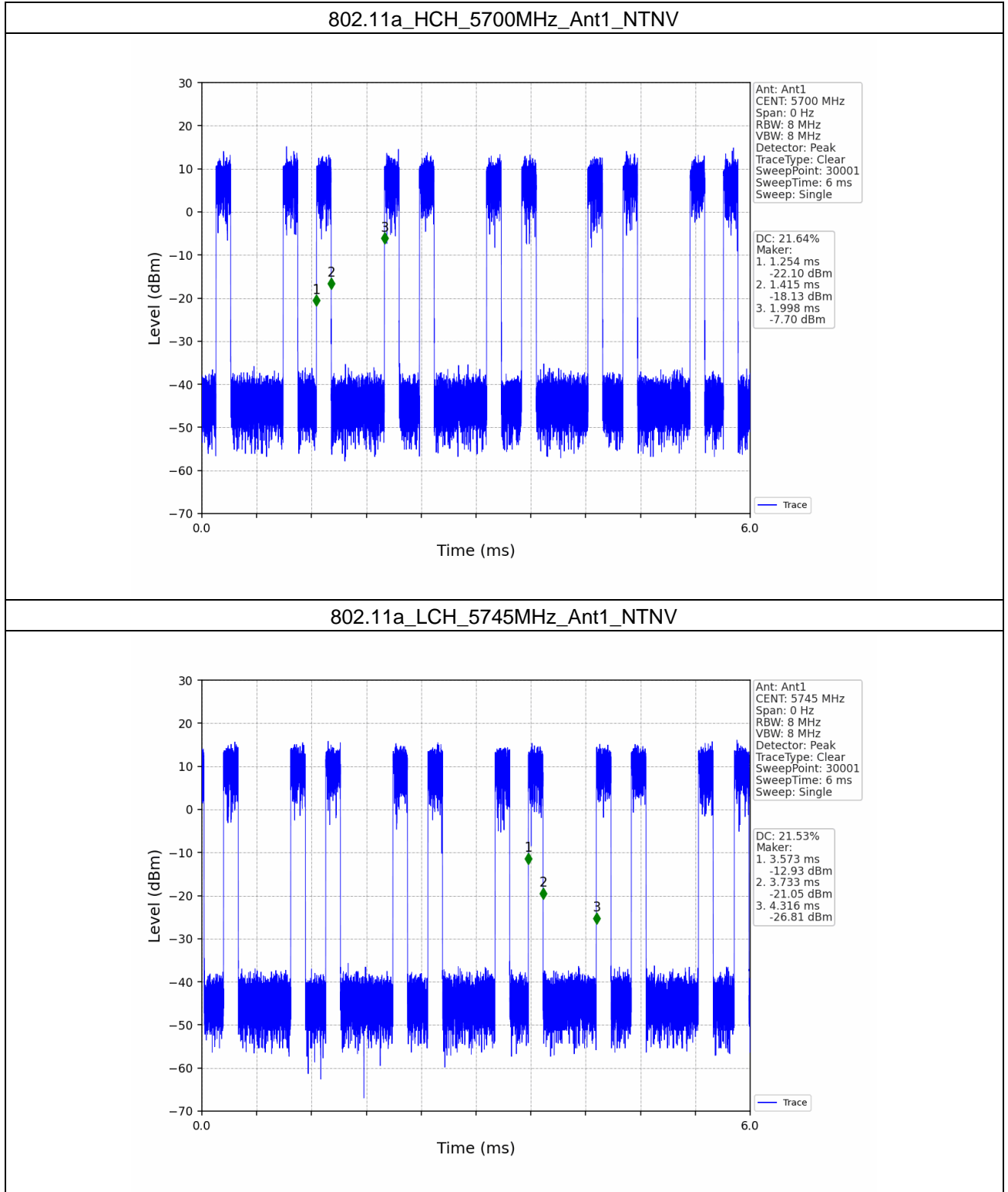
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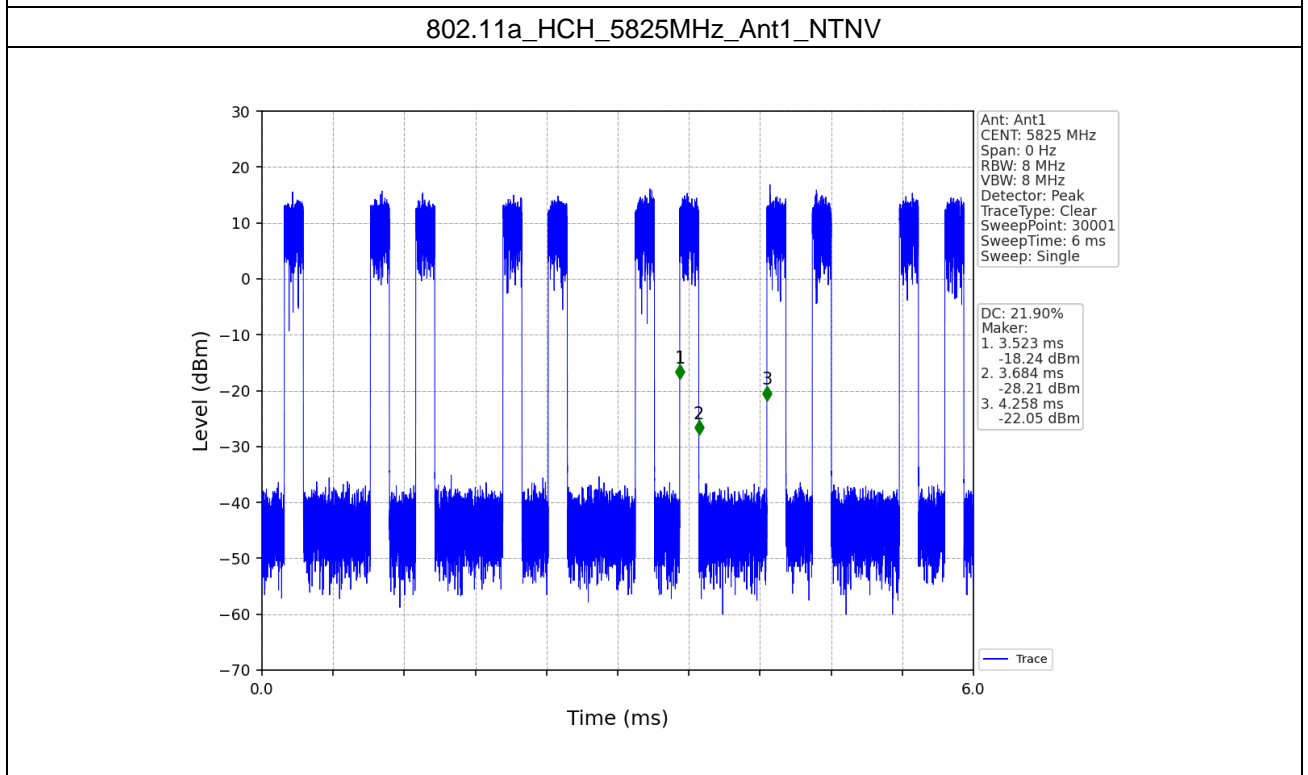
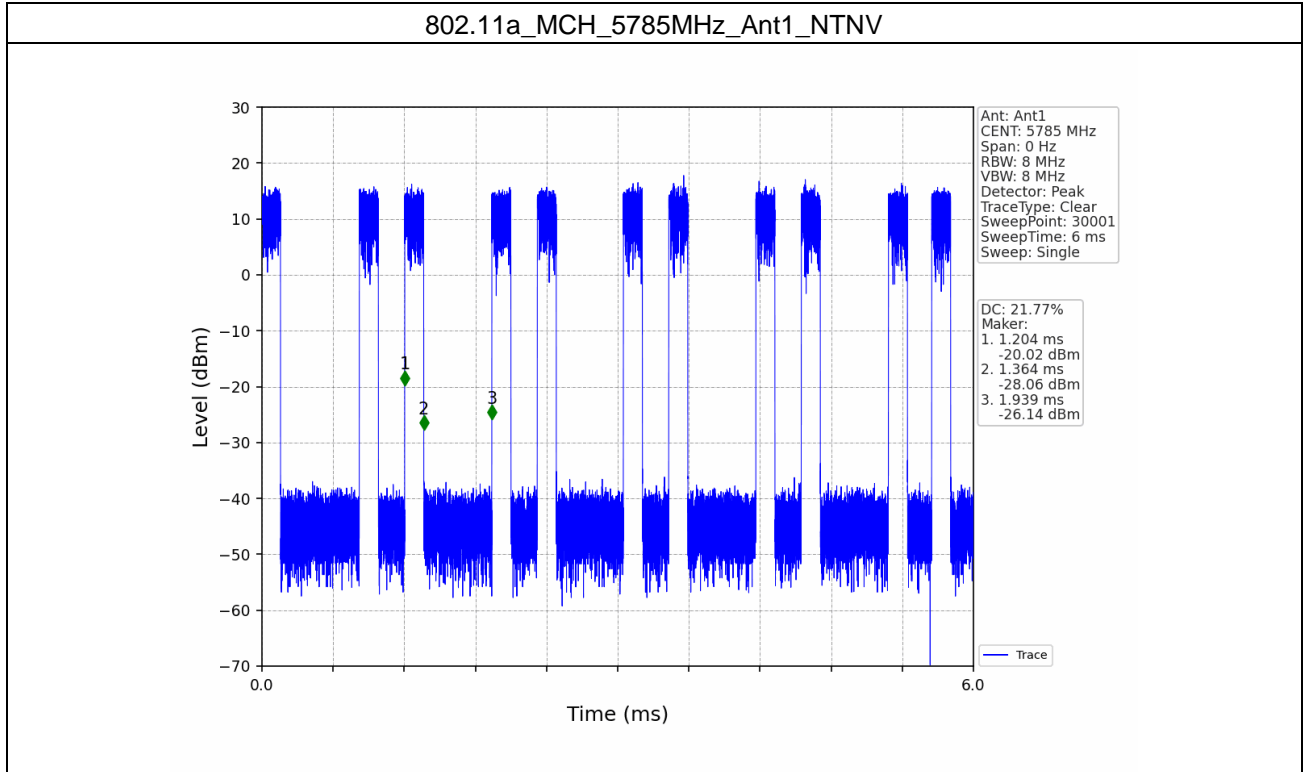
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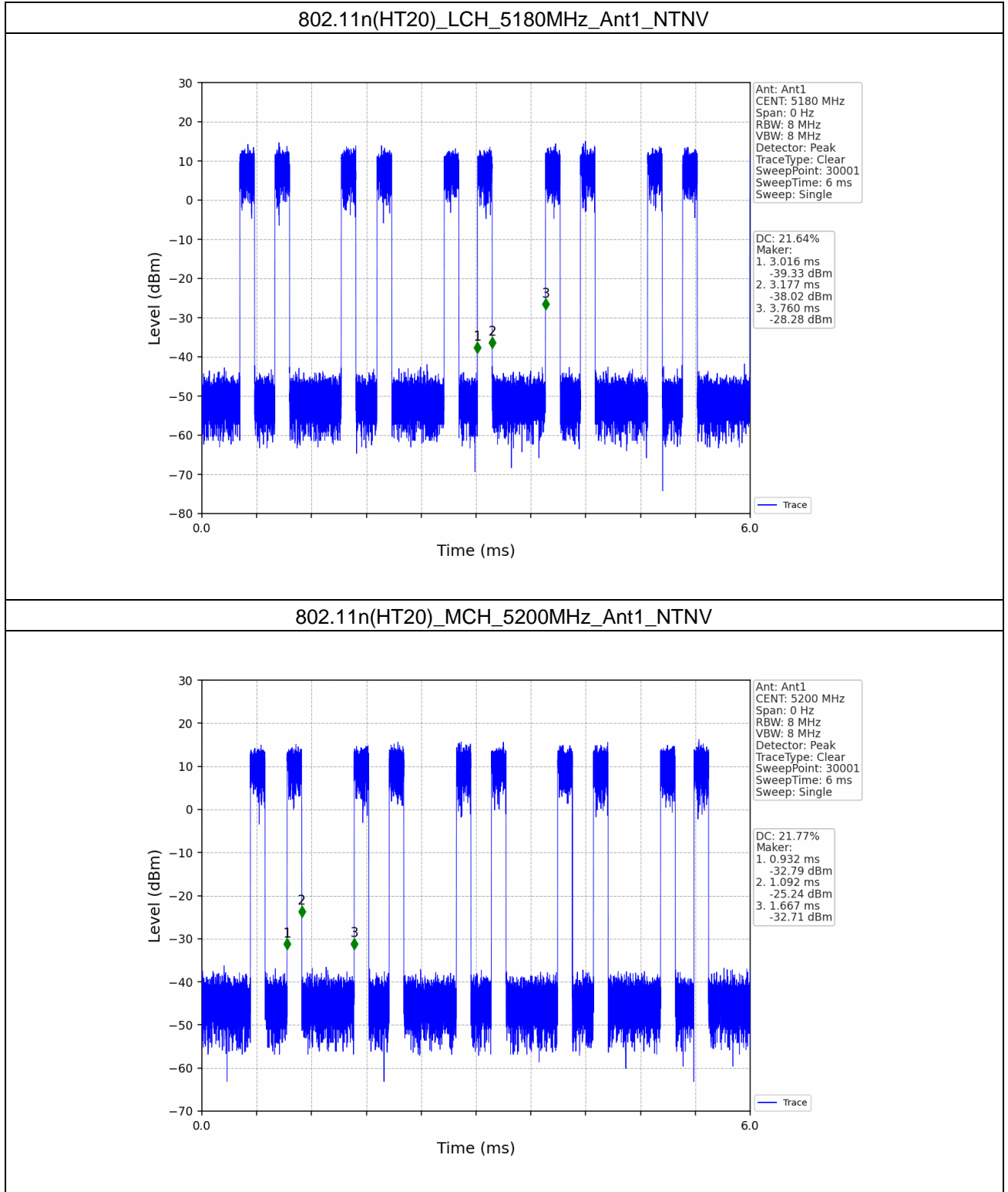
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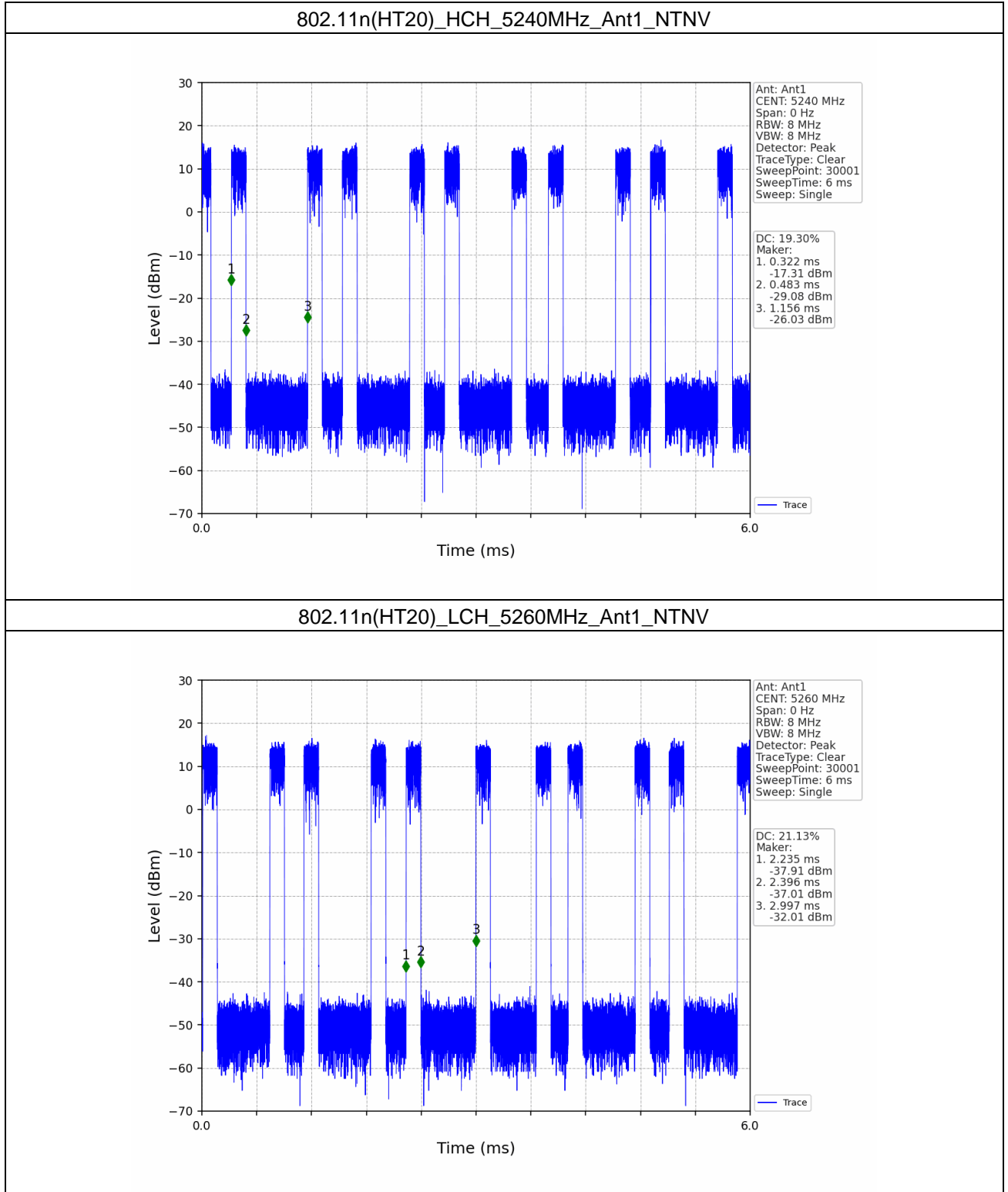
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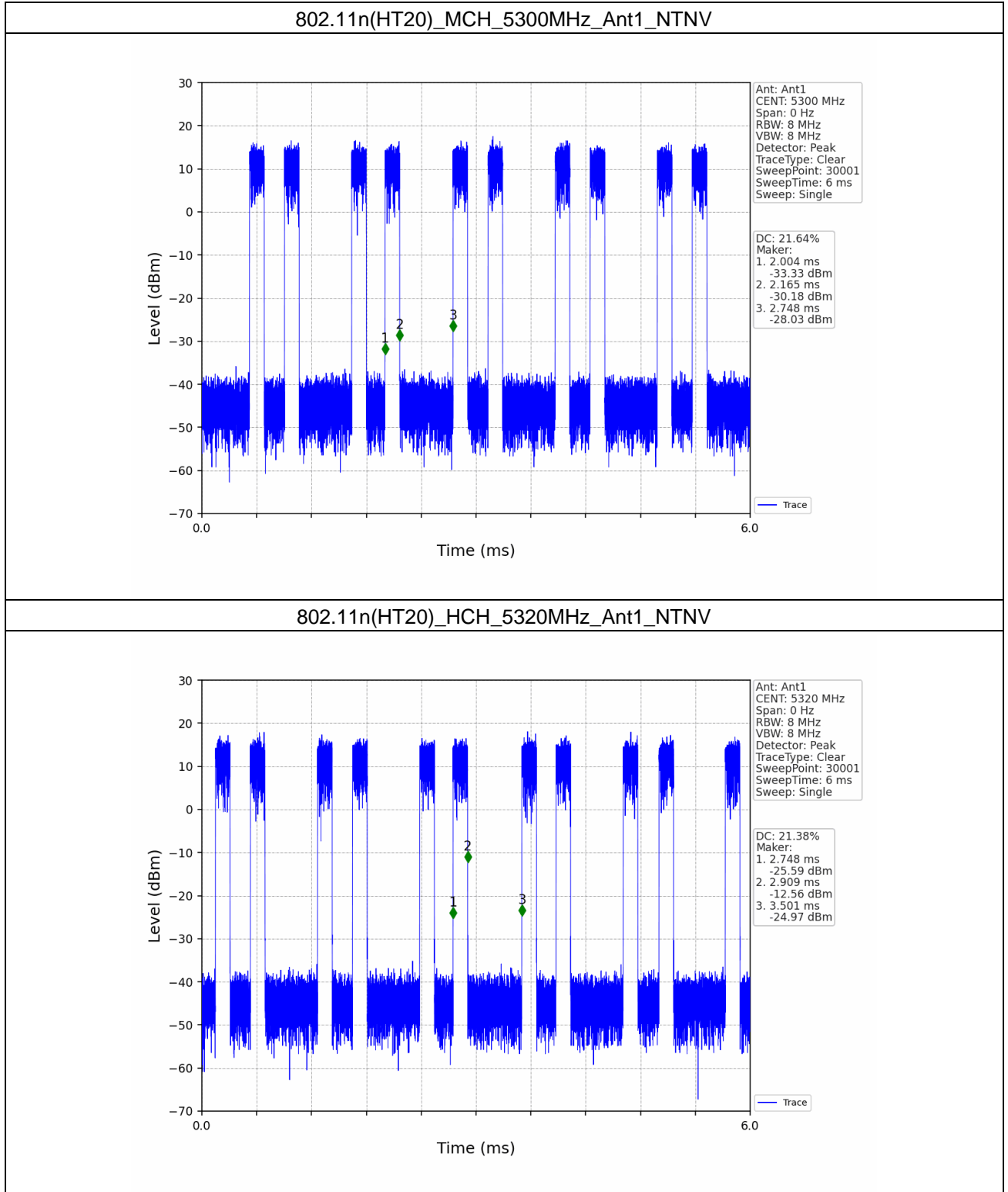
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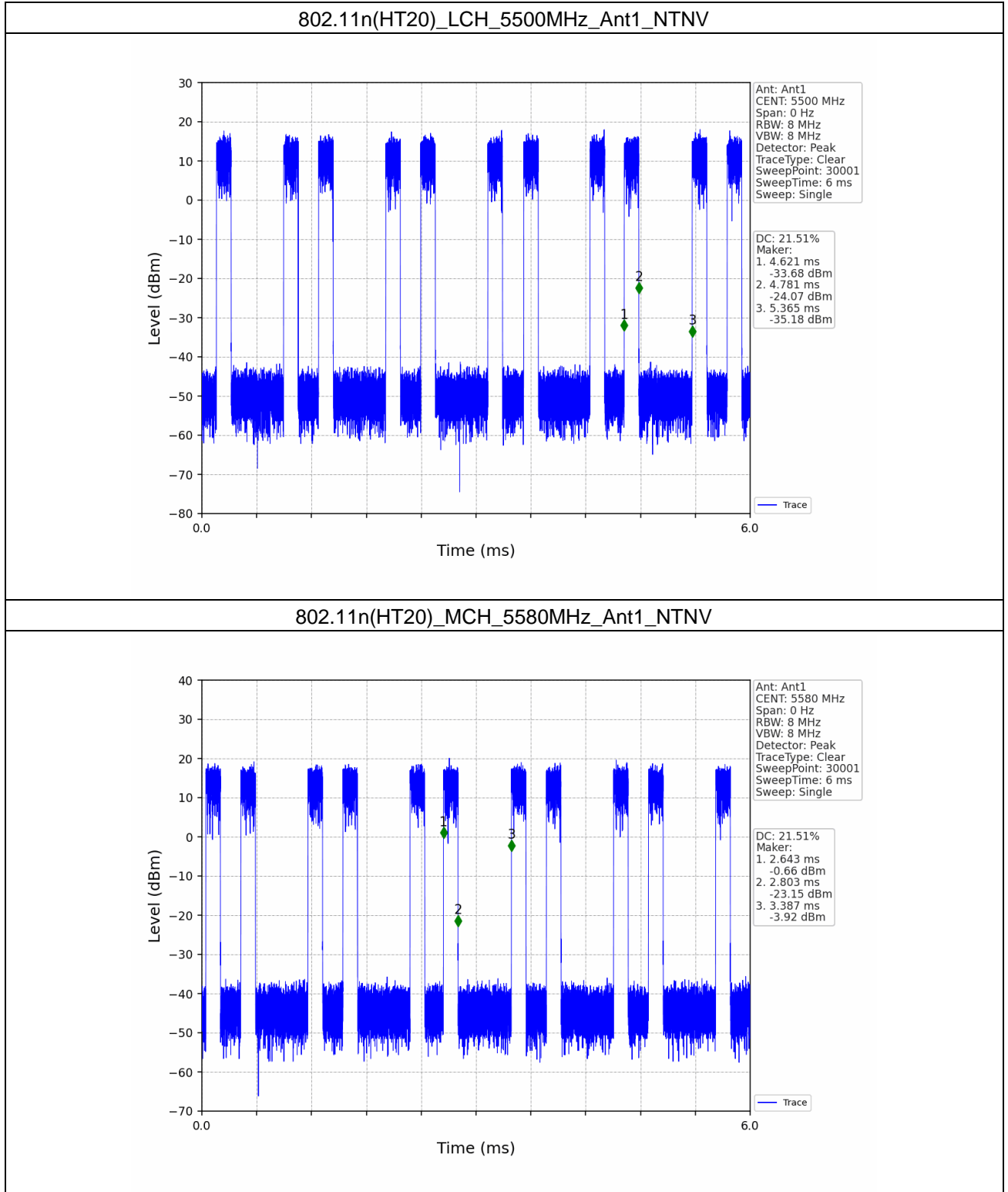
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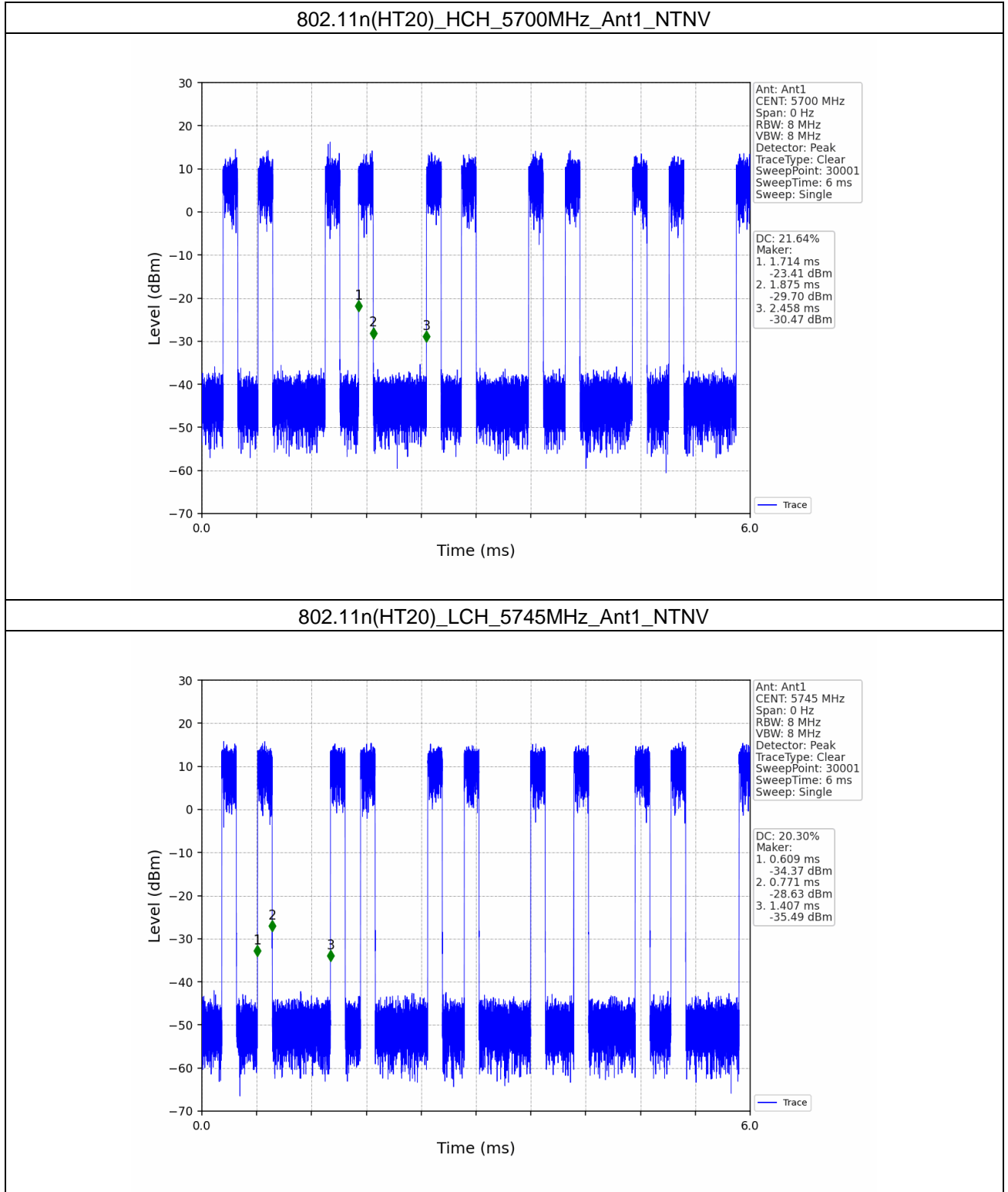


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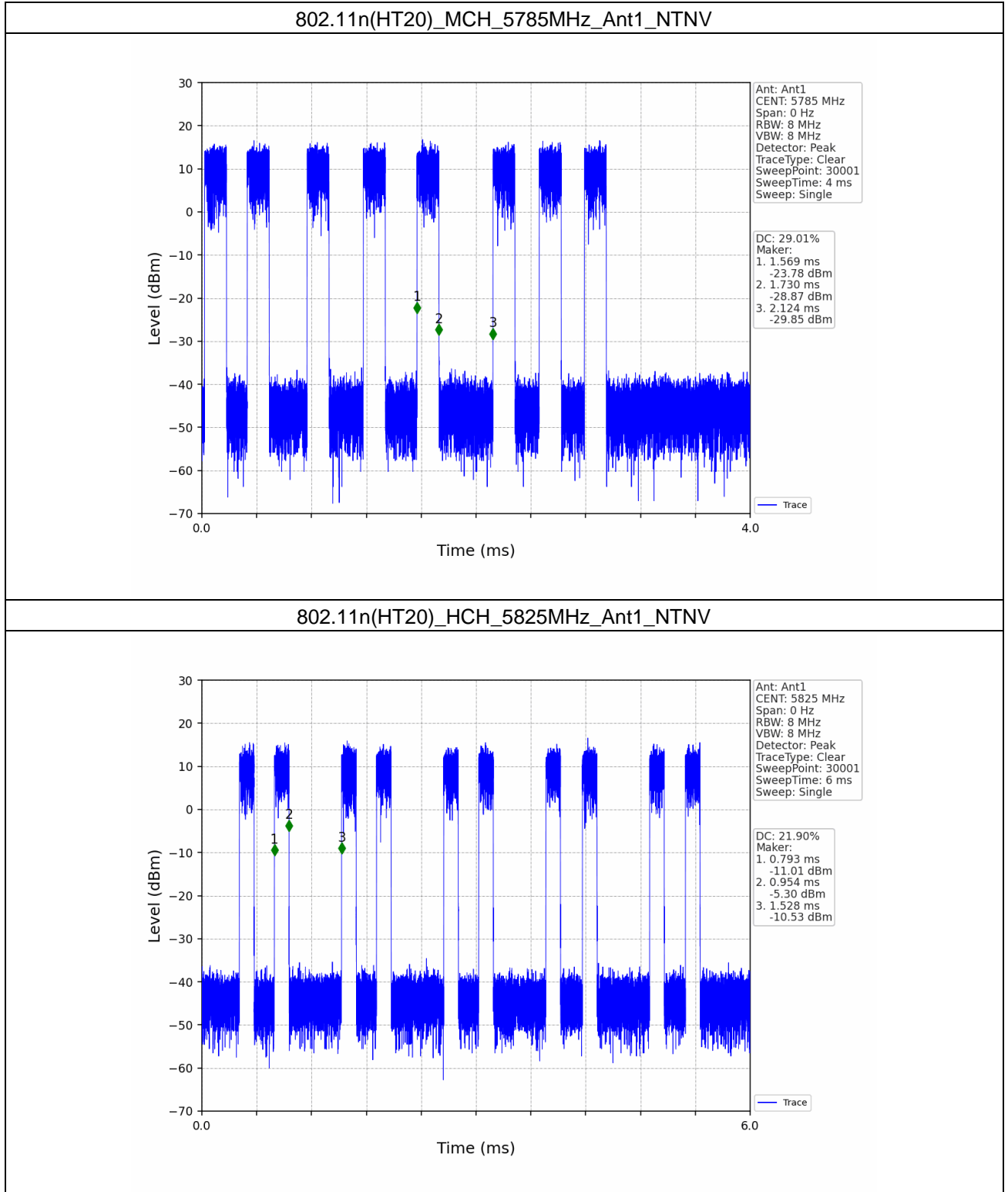


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2. Bandwidth

2.1 OBW

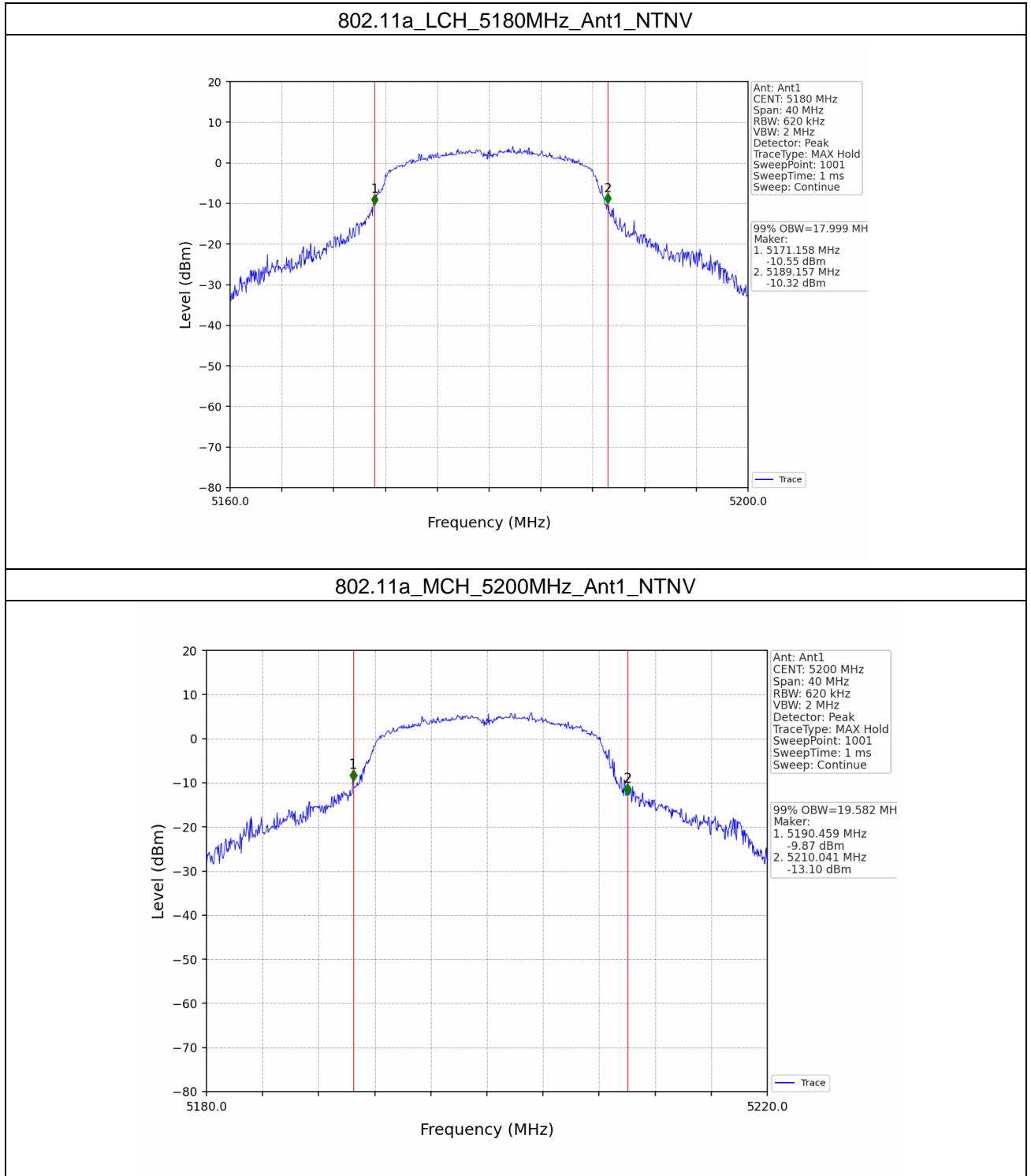
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.999	Pass
		5200	1	19.582	Pass
		5240	1	19.732	Pass
		5260	1	19.682	Pass
		5300	1	18.446	Pass
		5320	1	18.045	Pass
		5500	1	17.759	Pass
		5580	1	19.971	Pass
		5700	1	17.391	Pass
		5745	1	19.025	Pass
		5785	1	18.900	Pass
802.11n (HT20)	SISO	5825	1	17.911	Pass
		5180	1	18.036	Pass
		5200	1	19.277	Pass
		5240	1	19.424	Pass
		5260	1	19.788	Pass
		5300	1	18.317	Pass
		5320	1	17.842	Pass
		5500	1	17.814	Pass
		5580	1	19.930	Pass
		5700	1	17.520	Pass
		5745	1	18.878	Pass
5785	1	19.472	Pass		
5825	1	17.988	Pass		



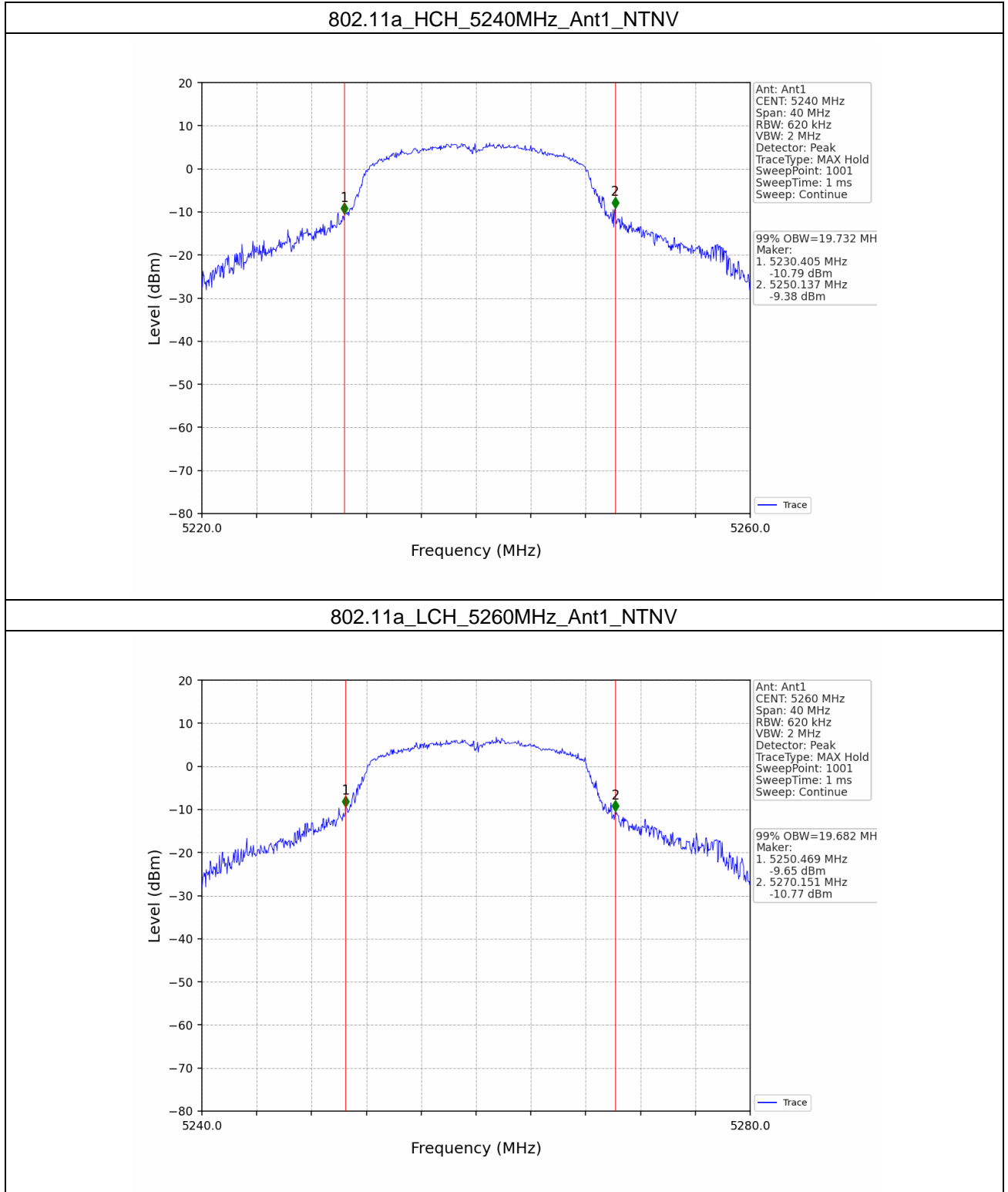
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2.1.2 Test Graph



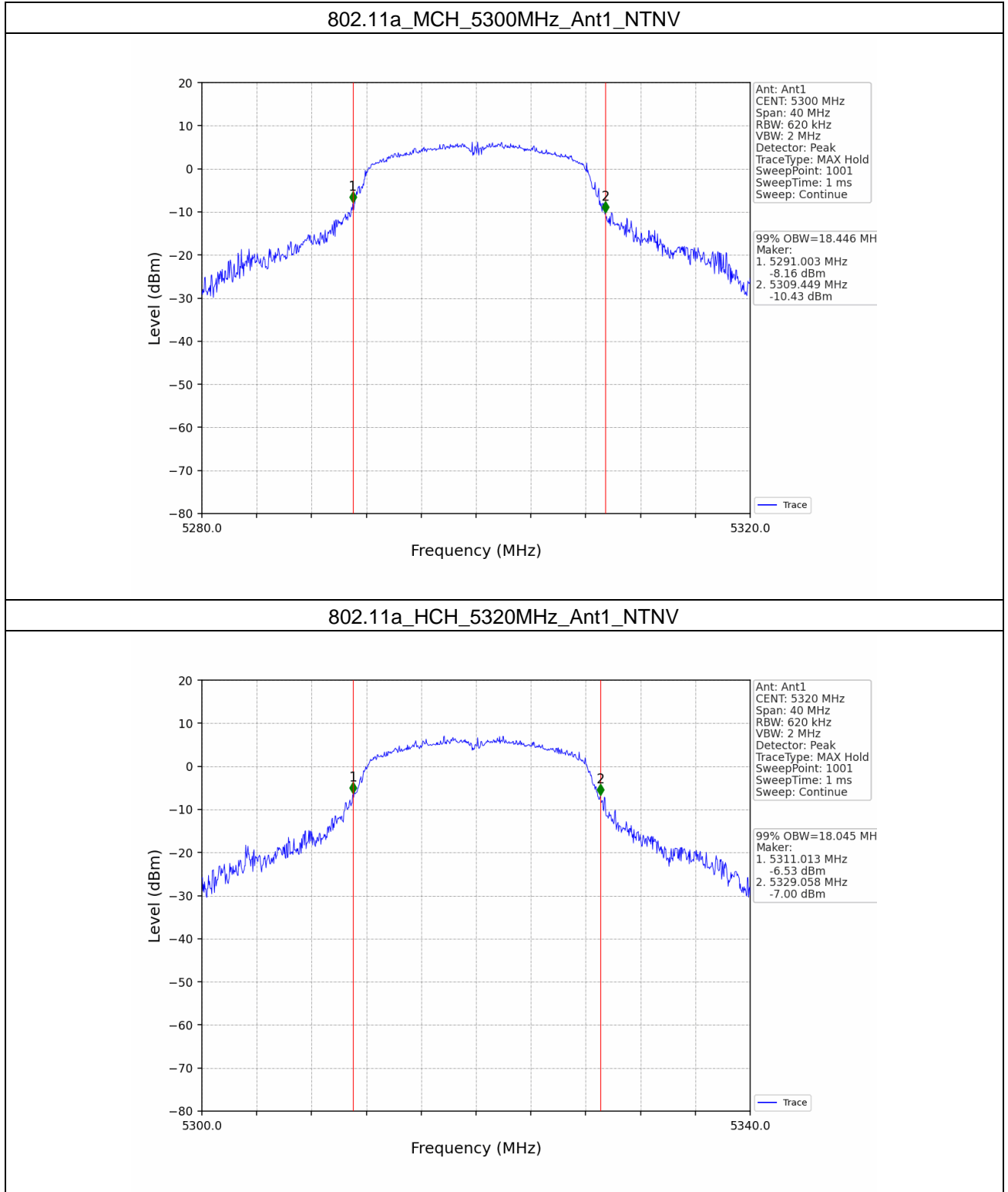
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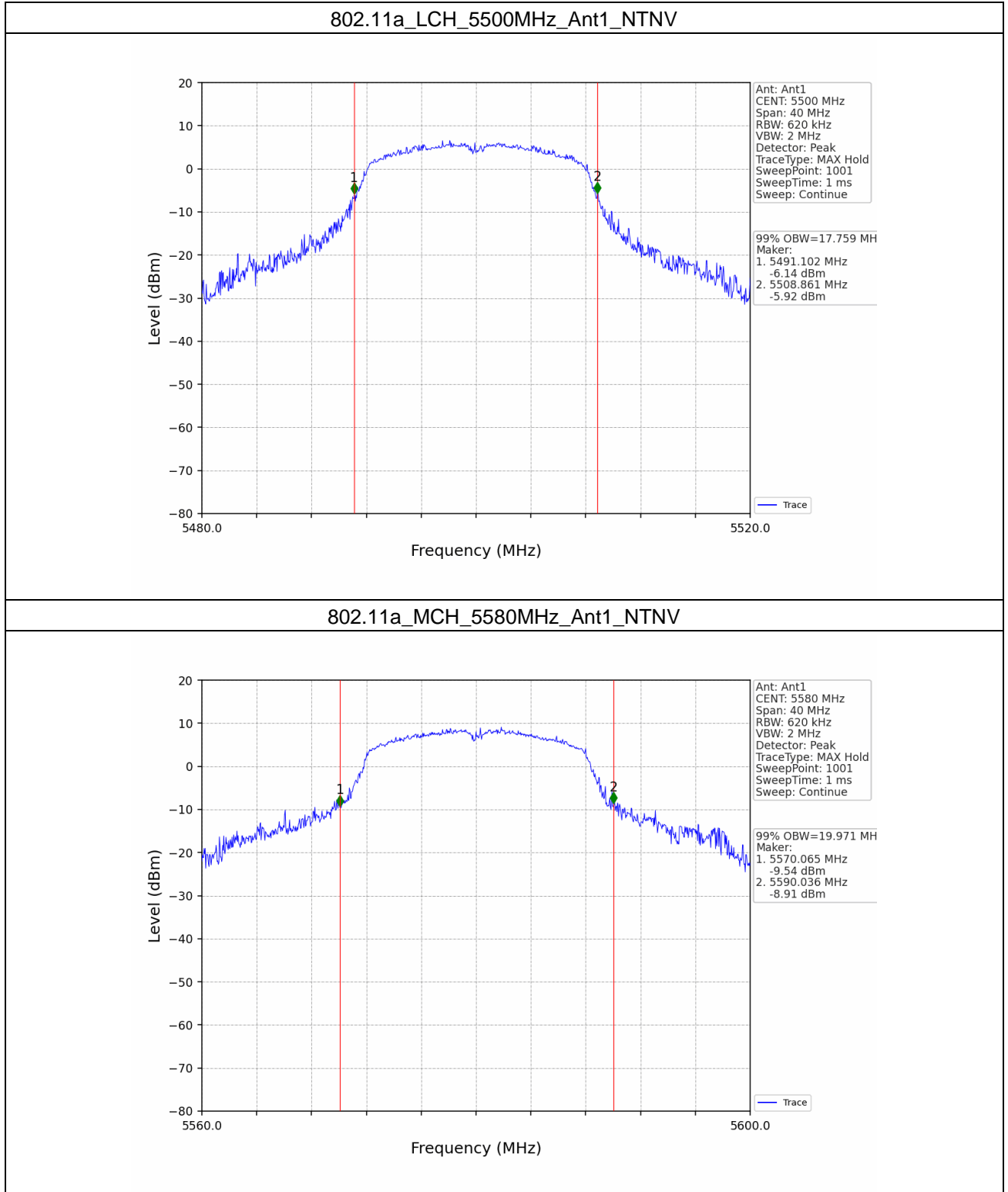
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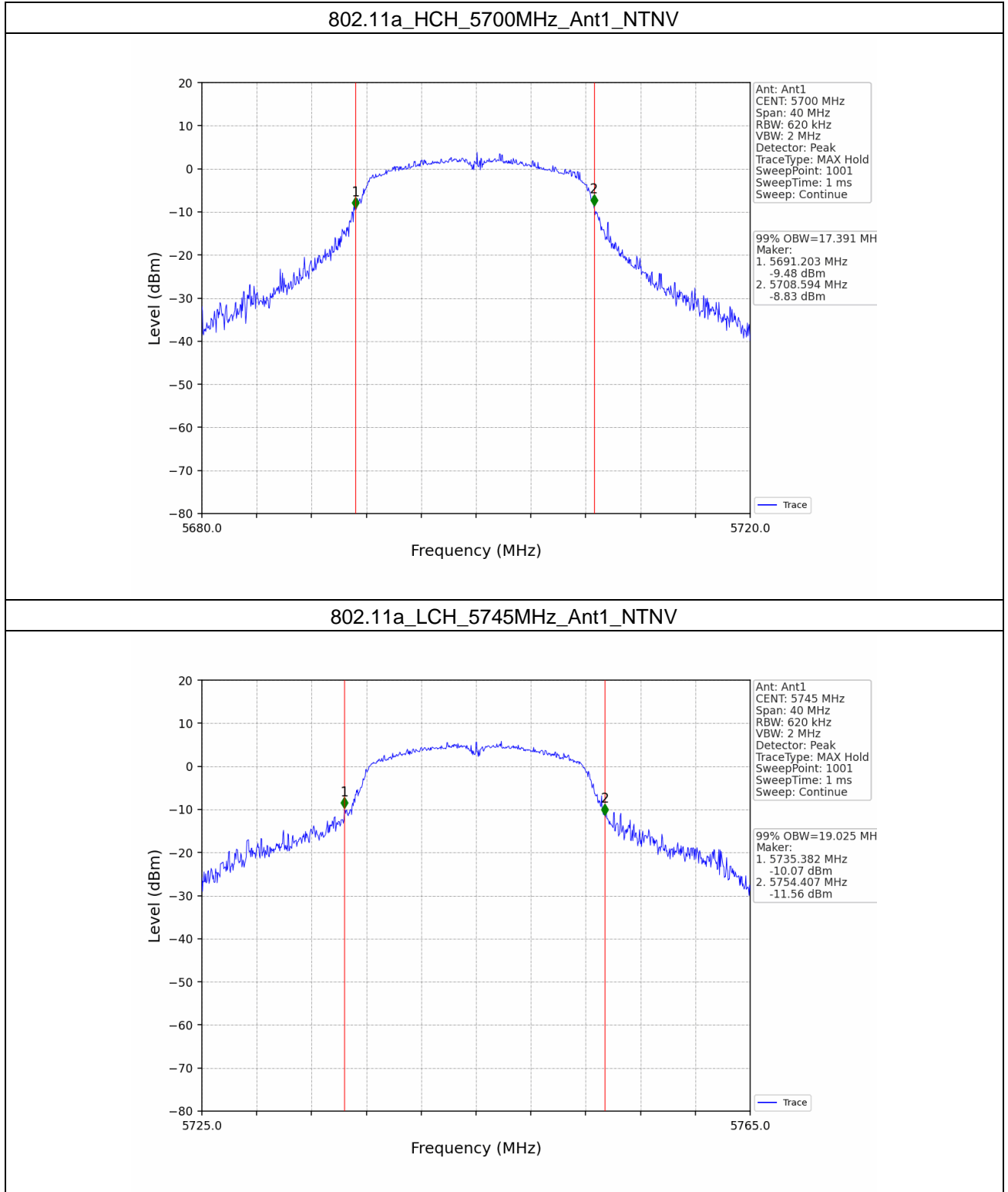
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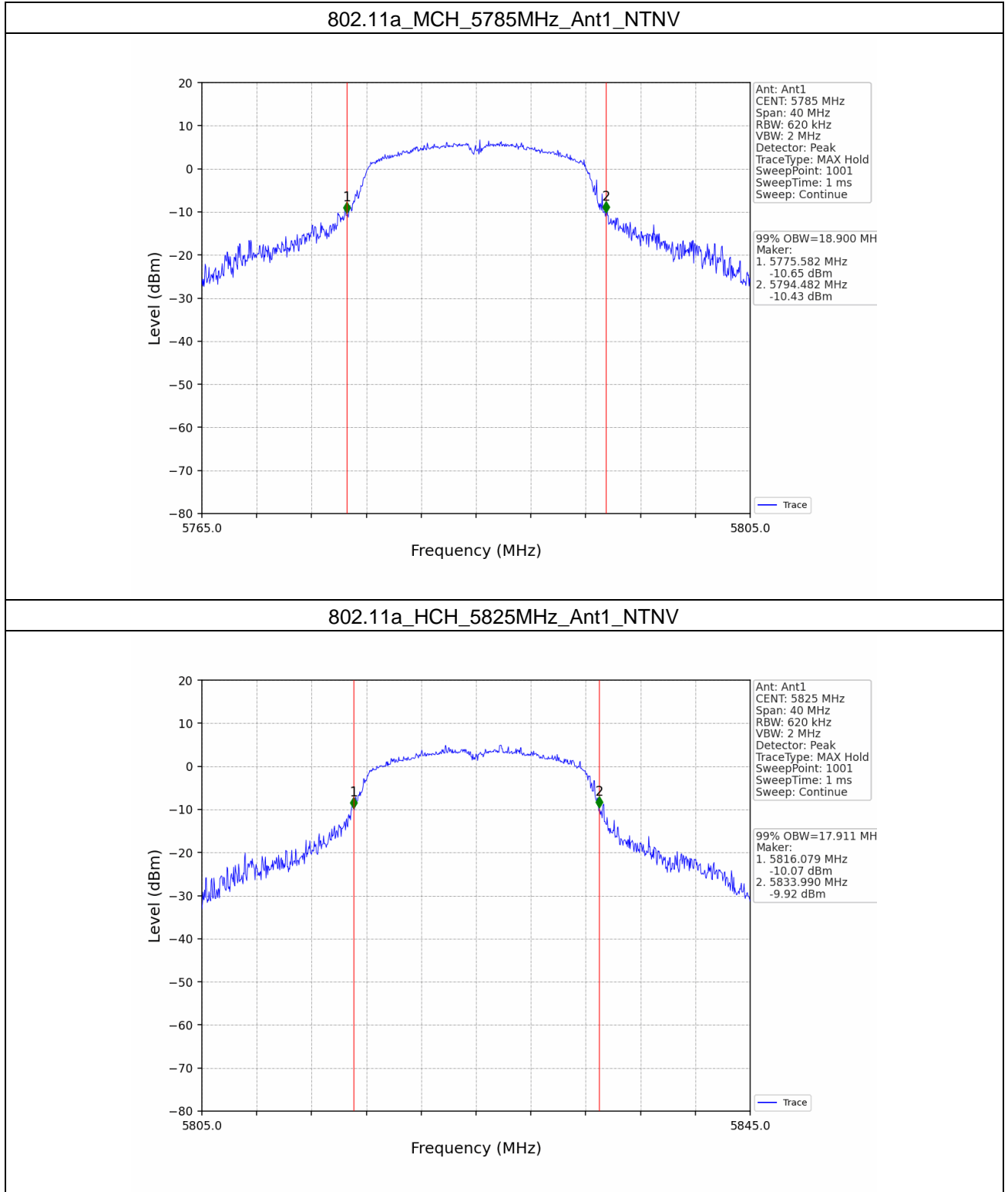
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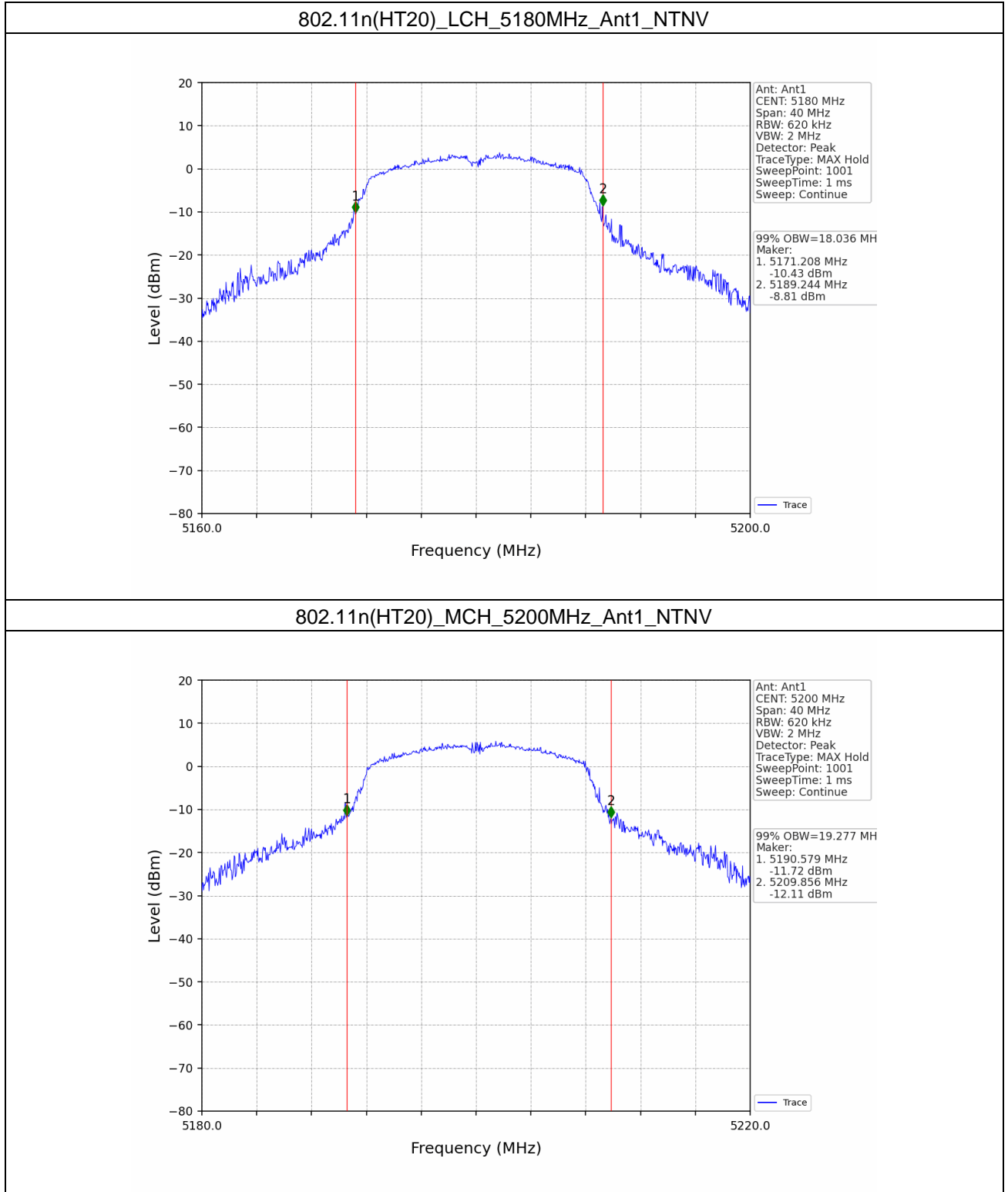
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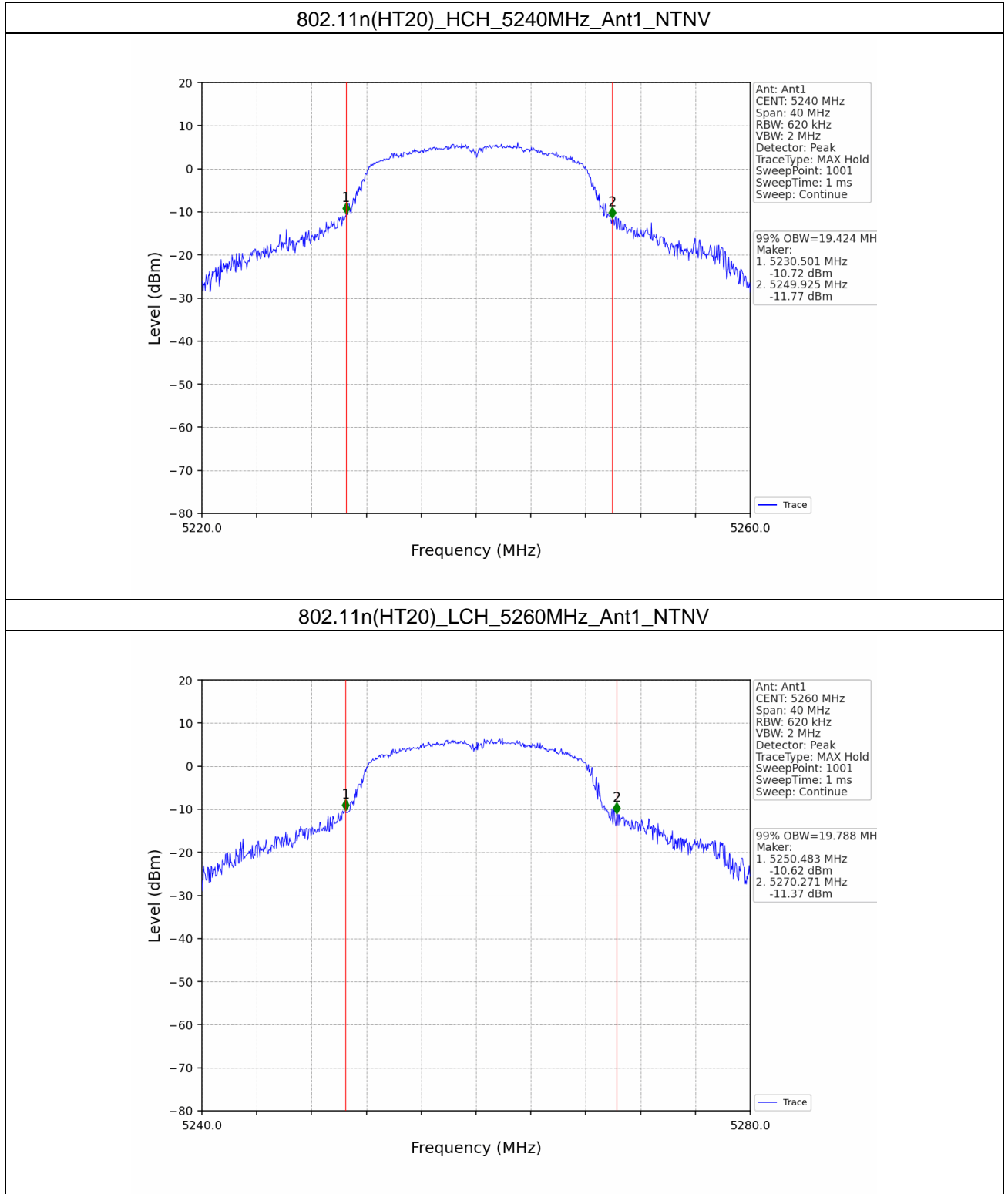
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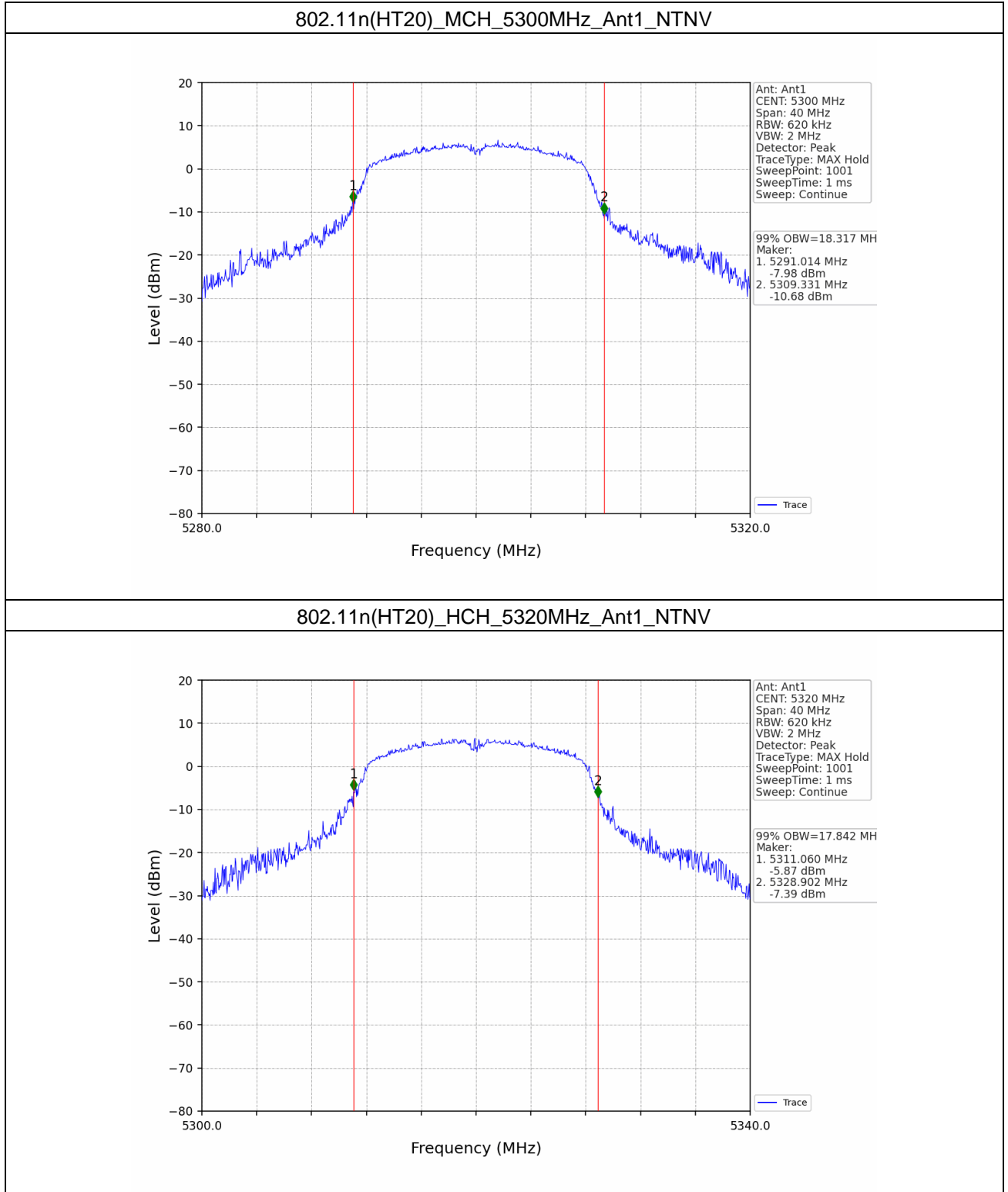
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