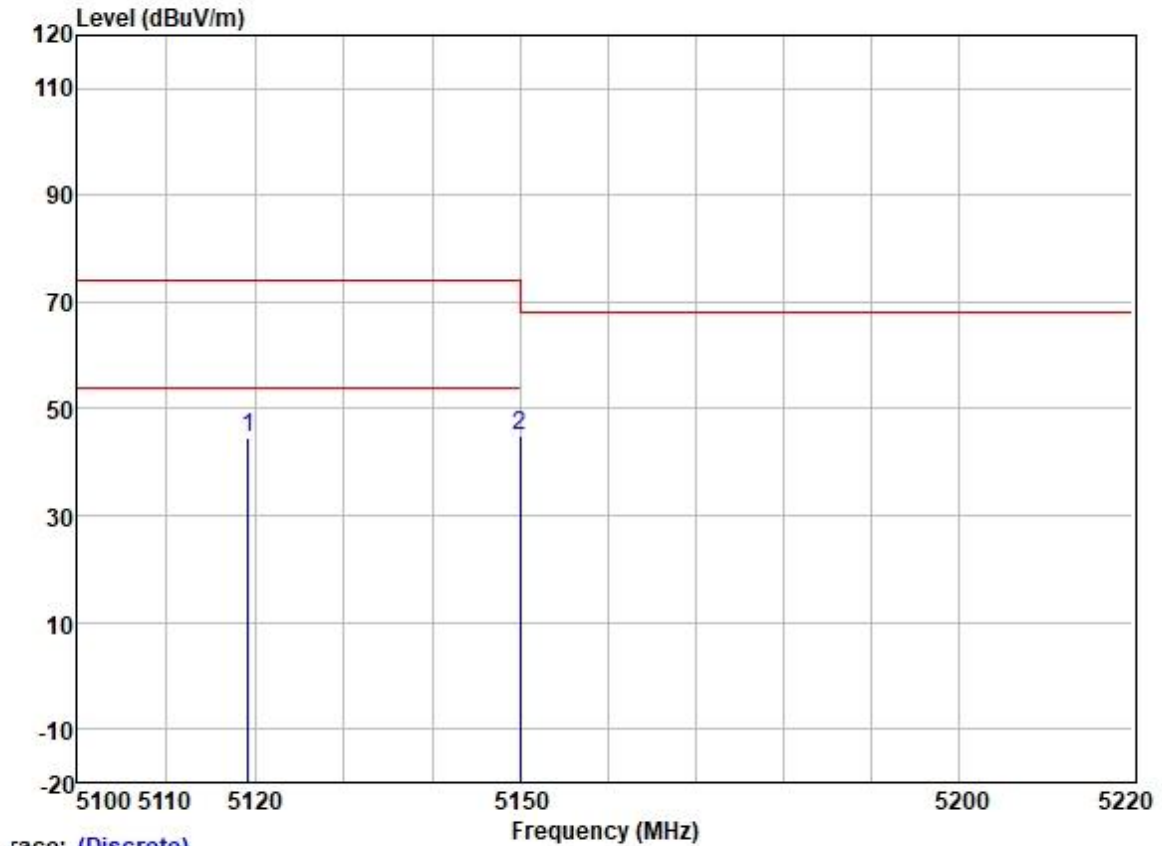


Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

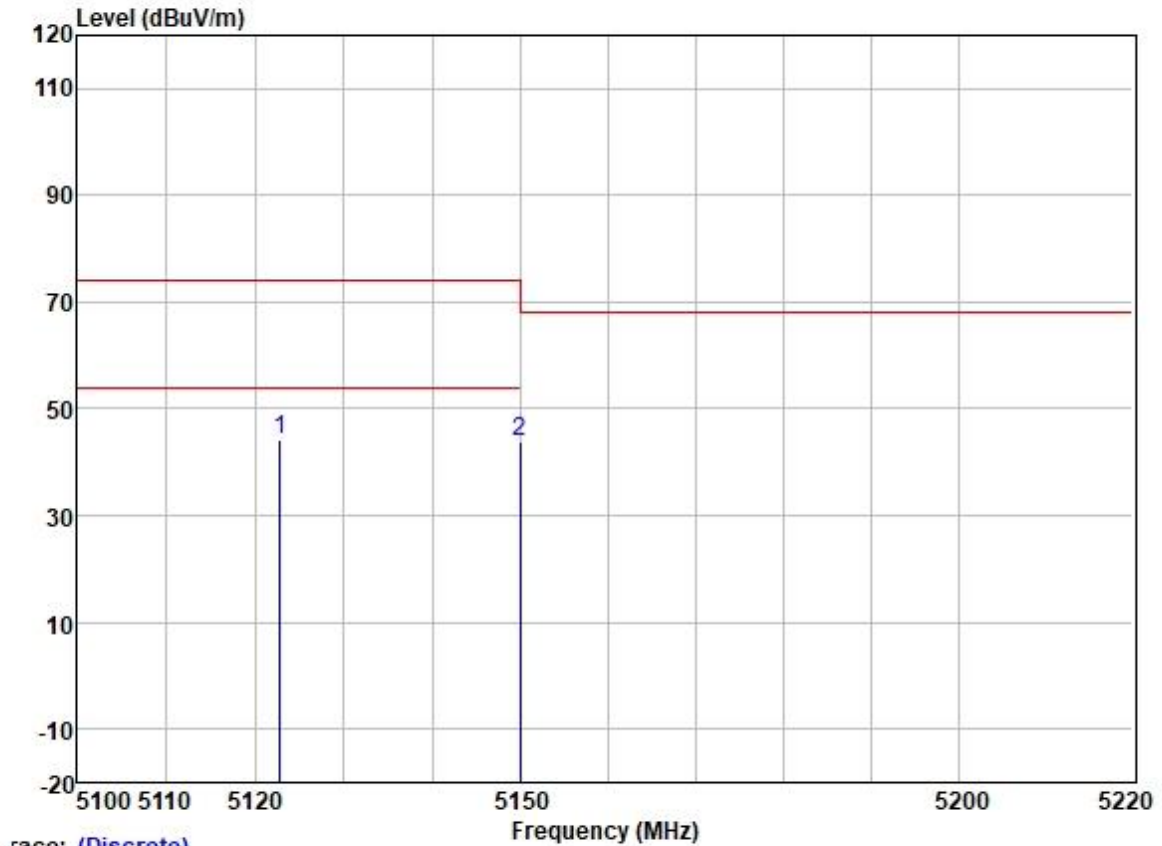
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5119.251	43.42	31.72	5.64	36.32	44.46	74.00	-29.54	VERTICAL Peak
2	5150.000	43.75	31.72	5.62	36.31	44.78	68.20	-23.42	VERTICAL Peak



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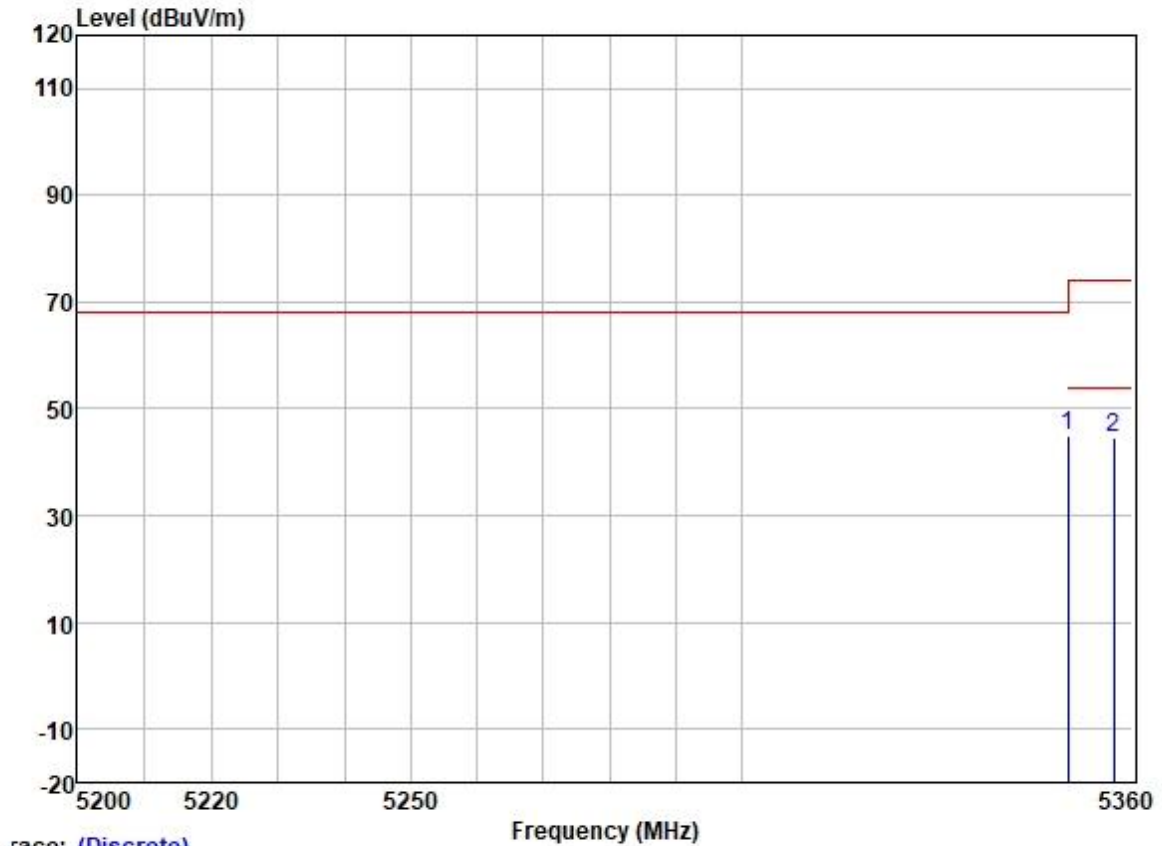
Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5122.824	43.16	31.72	5.64	36.32	44.20	74.00	-29.80	HORIZONTAL Peak
2	5150.000	42.94	31.72	5.62	36.31	43.97	68.20	-24.23	HORIZONTAL Peak

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

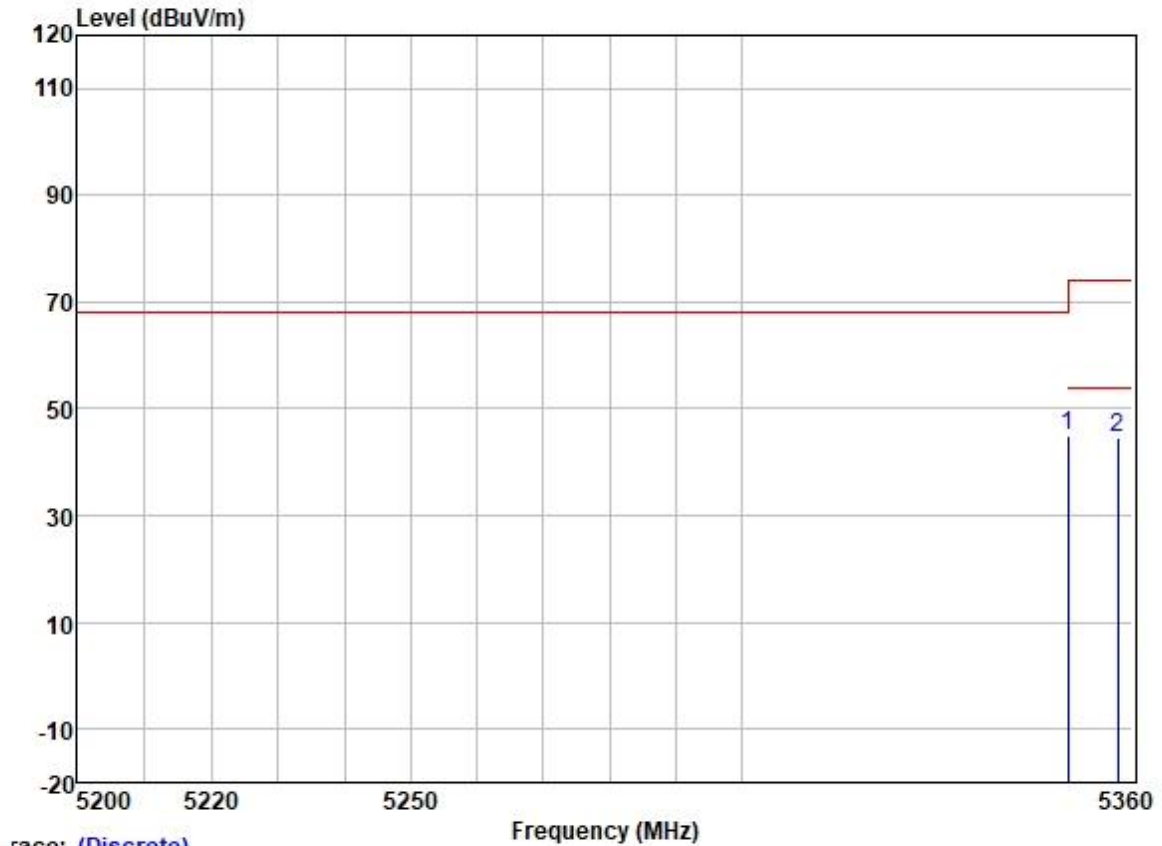
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5350.000	43.44	31.77	6.05	36.24	45.02	68.20	-23.18	VERTICAL	Peak
2	5357.077	43.07	31.78	6.03	36.24	44.64	74.00	-29.36	VERTICAL	Peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5350.000	43.42	31.77	6.05	36.24	45.00	68.20	-23.20	HORIZONTAL	Peak
2	5357.564	42.90	31.78	6.03	36.24	44.47	74.00	-29.53	HORIZONTAL	Peak

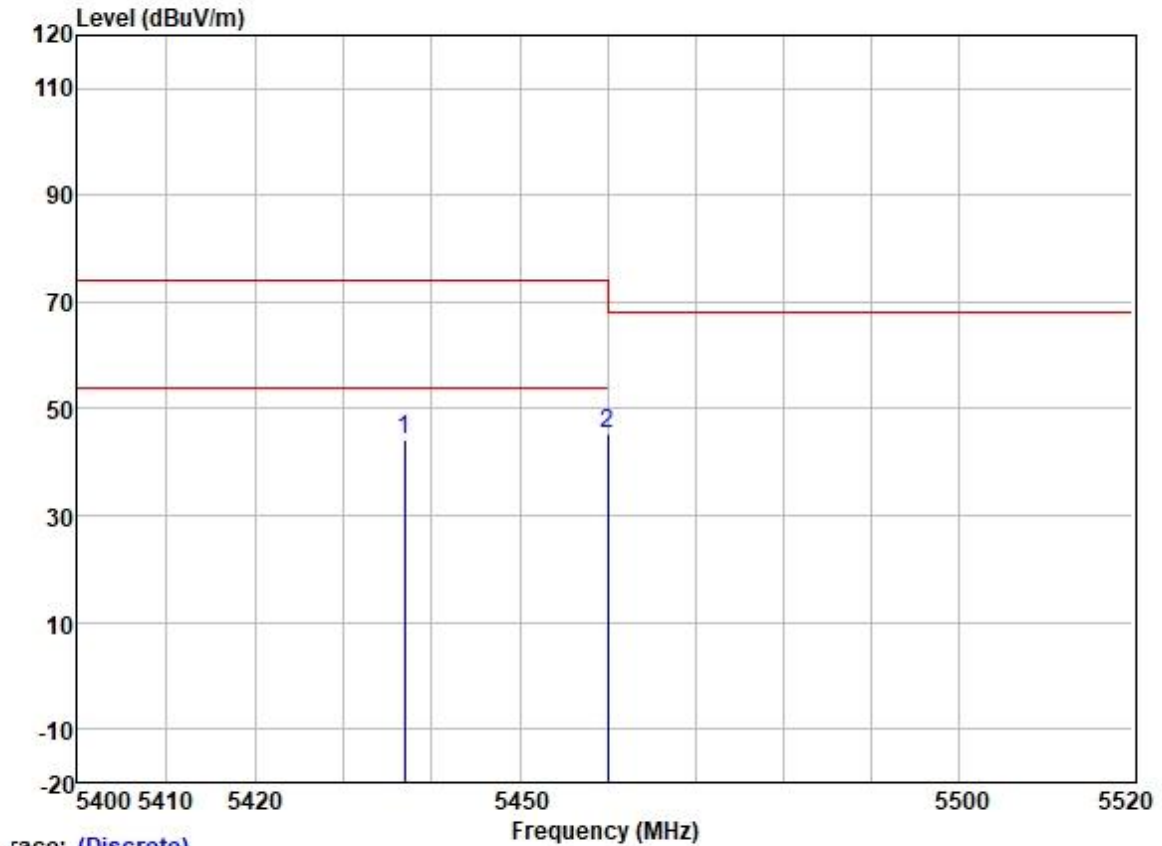


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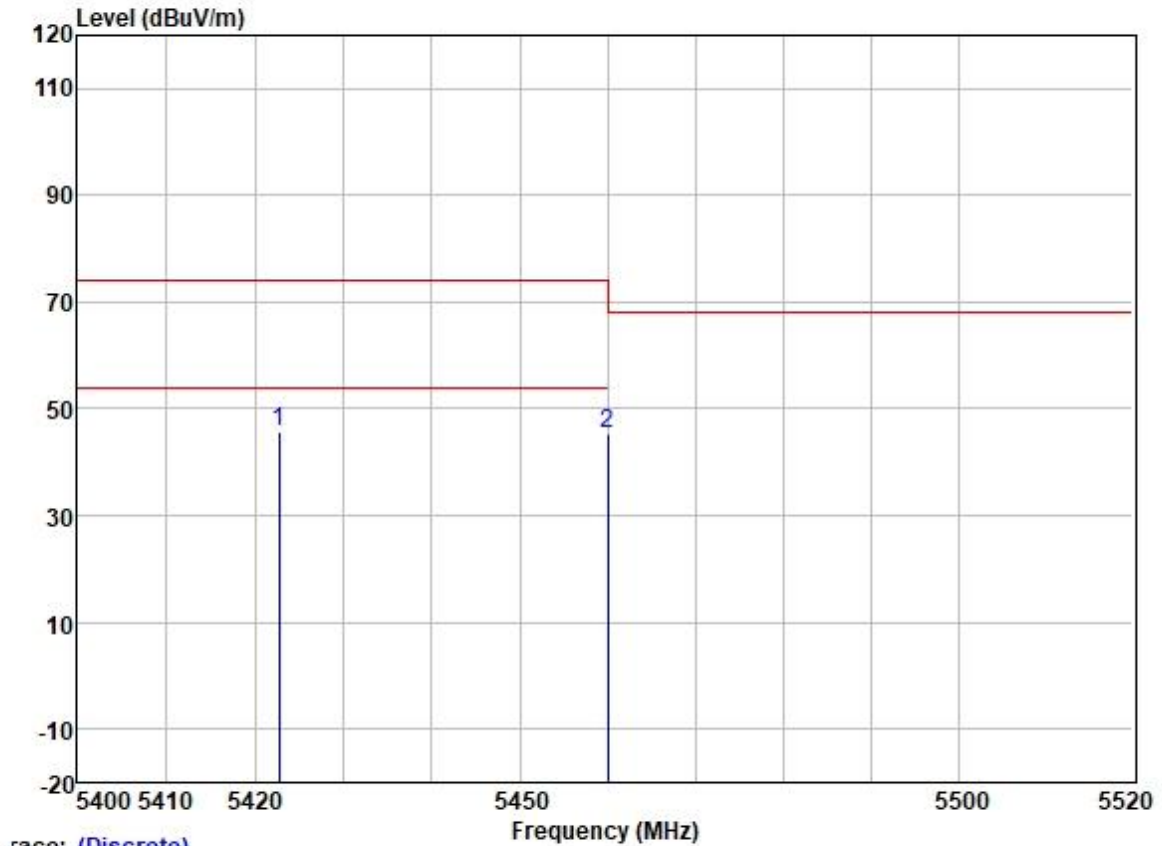
Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

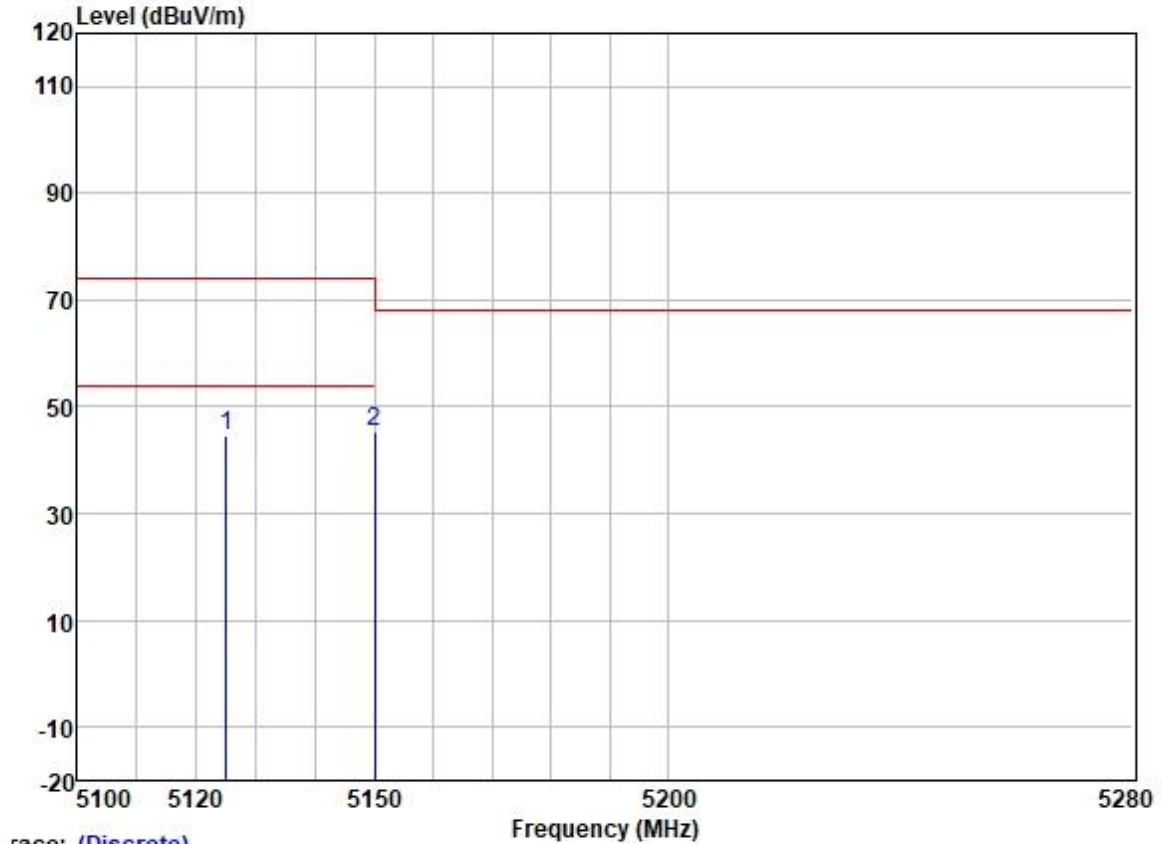
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5436.918	42.98	31.79	6.20	36.88	44.09	74.00	-29.91	VERTICAL Peak
2	5460.000	44.30	31.79	6.26	36.88	45.47	68.20	-22.73	VERTICAL Peak

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5422.717	44.62	31.79	6.13	36.88	45.66	74.00	-28.34	HORIZONTAL	Peak
2	5460.000	43.98	31.79	6.26	36.88	45.15	68.20	-23.05	HORIZONTAL	Peak

Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

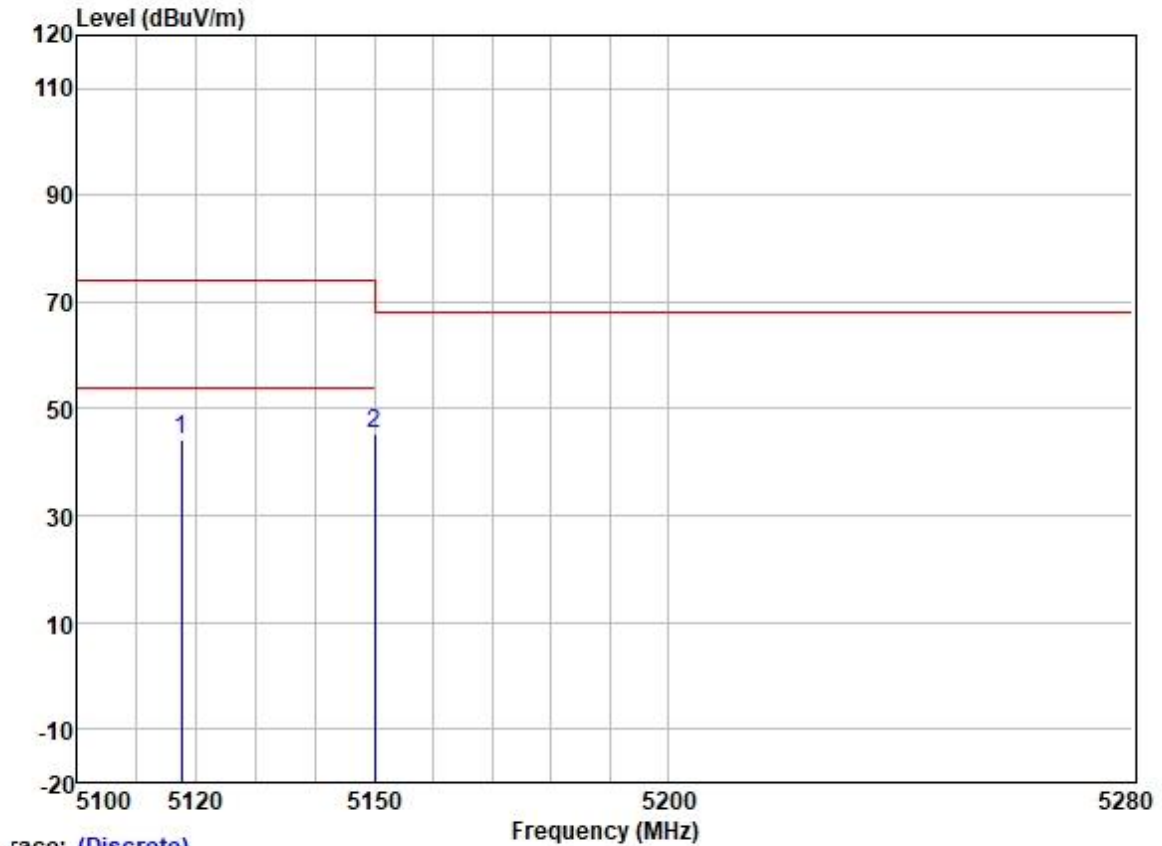
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5125.003	43.51	31.72	5.64	36.32	44.55	74.00	-29.45	VERTICAL Peak
2	5150.000	44.31	31.72	5.62	36.31	45.34	68.20	-22.86	VERTICAL Peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

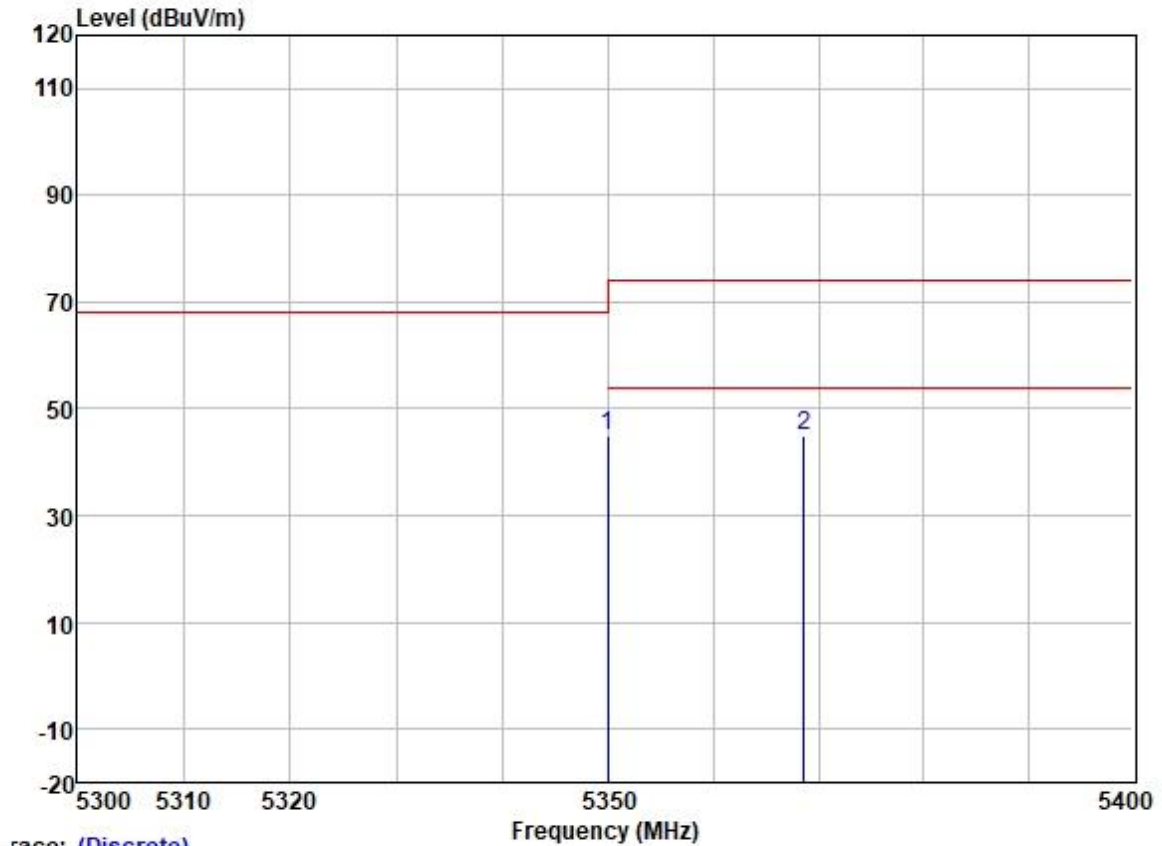


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5117.543	43.00	31.72	5.64	36.32	44.04	74.00	-29.96	HORIZONTAL Peak
2	5150.000	44.13	31.72	5.62	36.31	45.16	68.20	-23.04	HORIZONTAL Peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

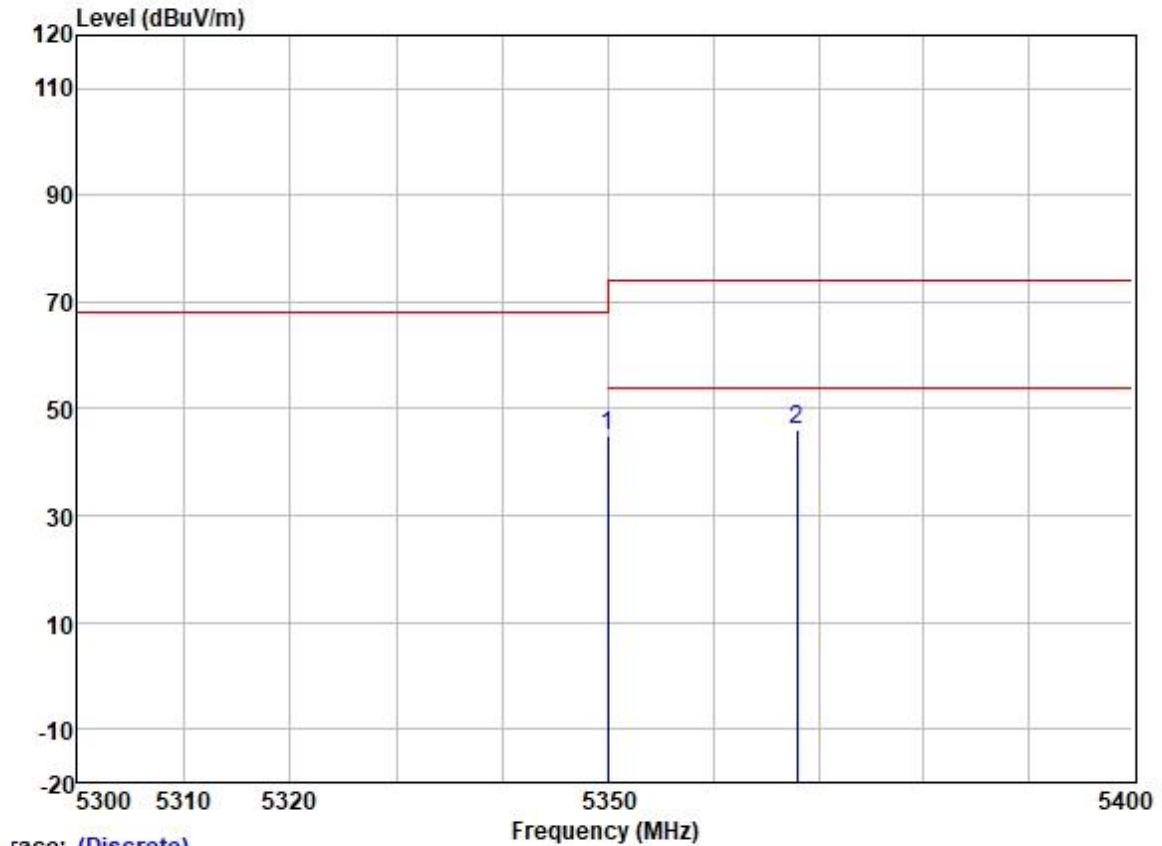
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5350.000	43.50	31.77	6.05	36.24	45.08	68.20	-23.12	VERTICAL Peak
2	5368.599	43.20	31.78	6.03	36.23	44.78	74.00	-29.22	VERTICAL Peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

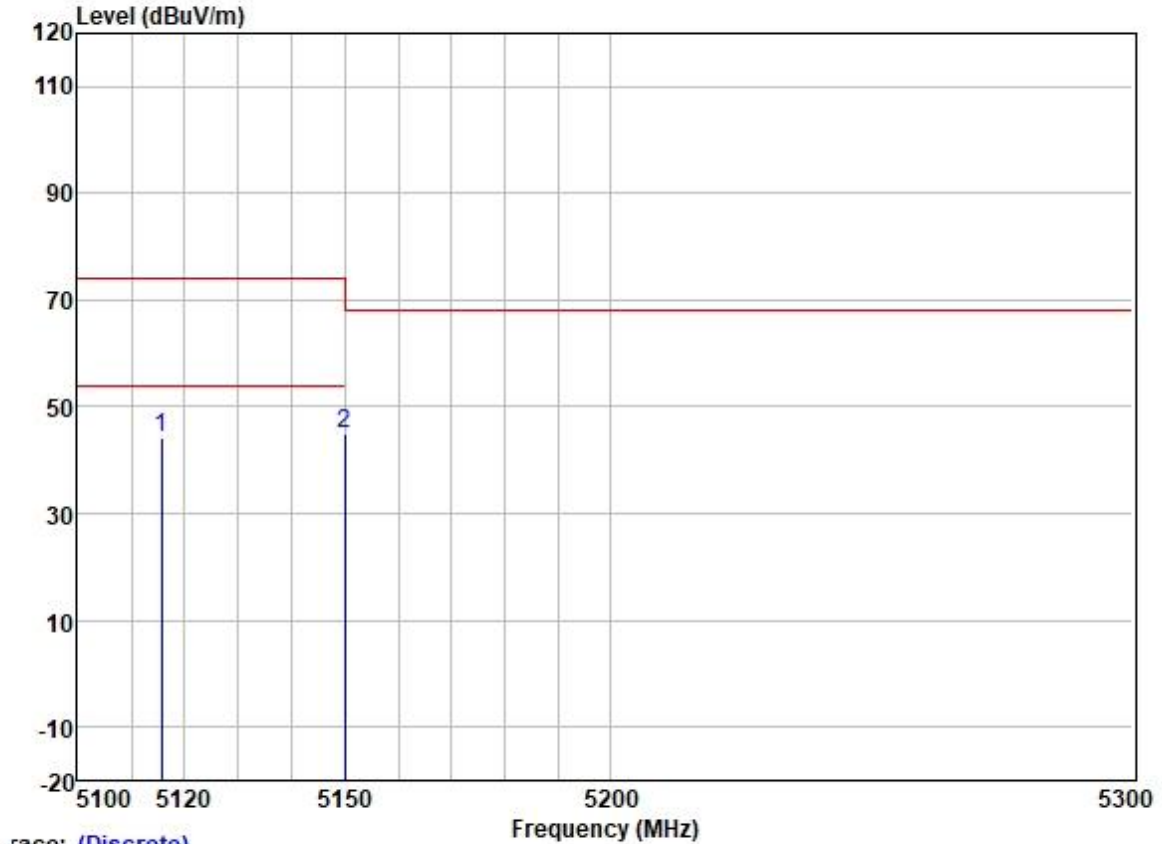
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5350.000	43.42	31.77	6.05	36.24	45.00	68.20	-23.20	HORIZONTAL Peak
2	5367.997	44.54	31.78	6.03	36.23	46.12	74.00	-27.88	HORIZONTAL Peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

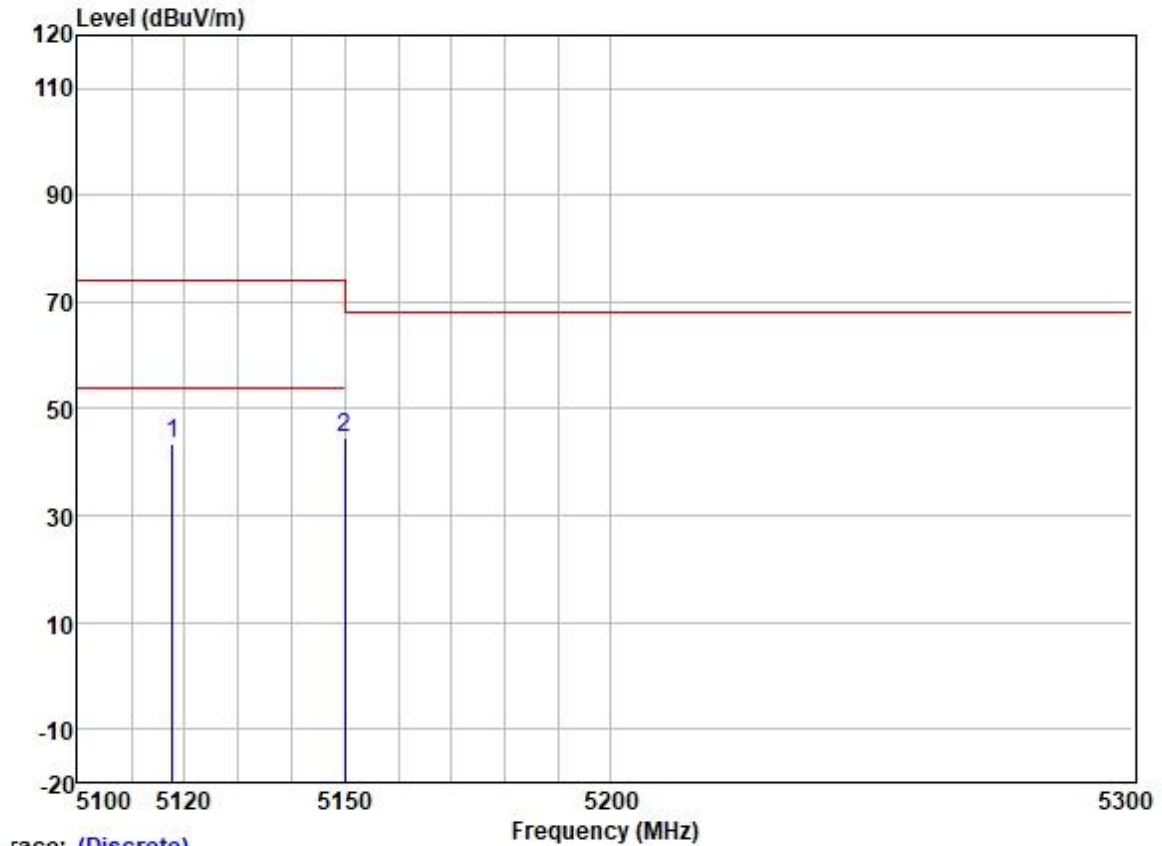
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5115.718	43.12	31.72	5.64	36.32	44.16	74.00	-29.84	VERTICAL	Peak
2	5150.000	44.05	31.72	5.62	36.31	45.08	68.20	-23.12	VERTICAL	Peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5117.687	42.52	31.72	5.64	36.32	43.56	74.00	-30.44	HORIZONTAL Peak
2	5150.000	43.40	31.72	5.62	36.31	44.43	68.20	-23.77	HORIZONTAL Peak

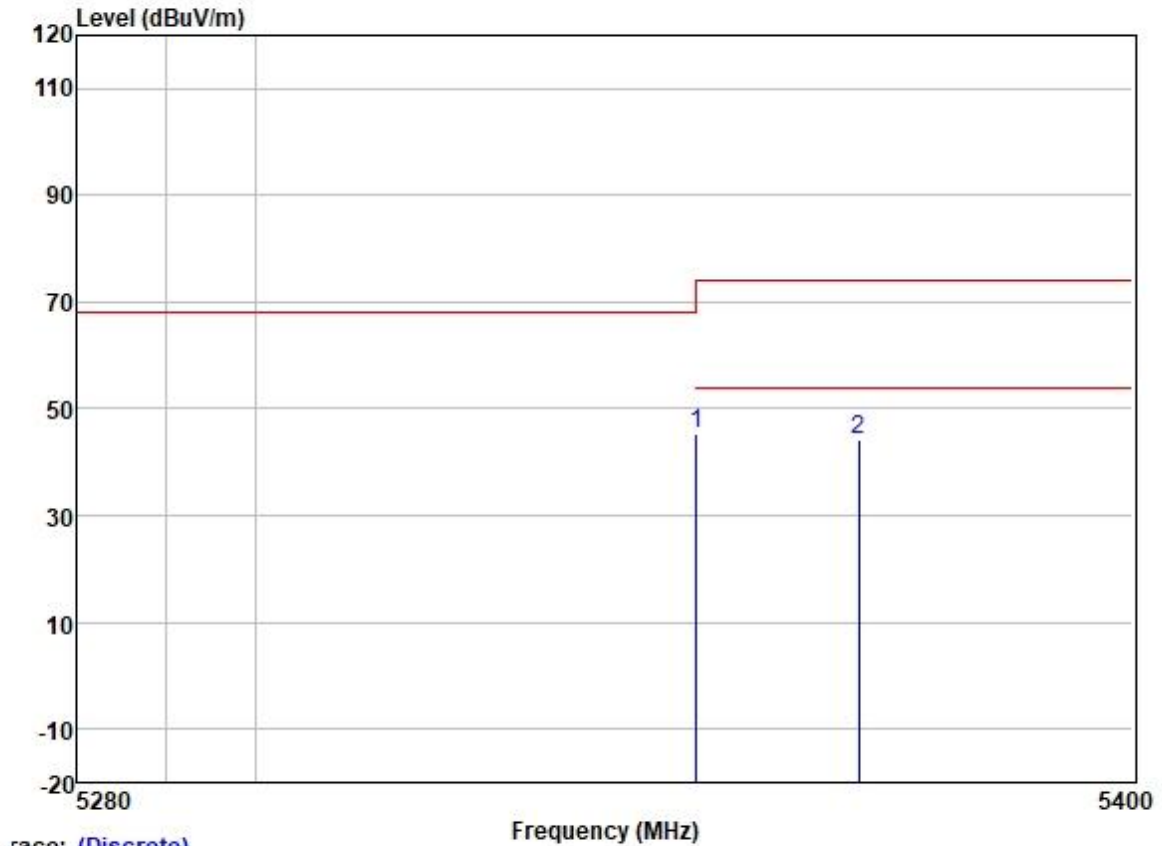


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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

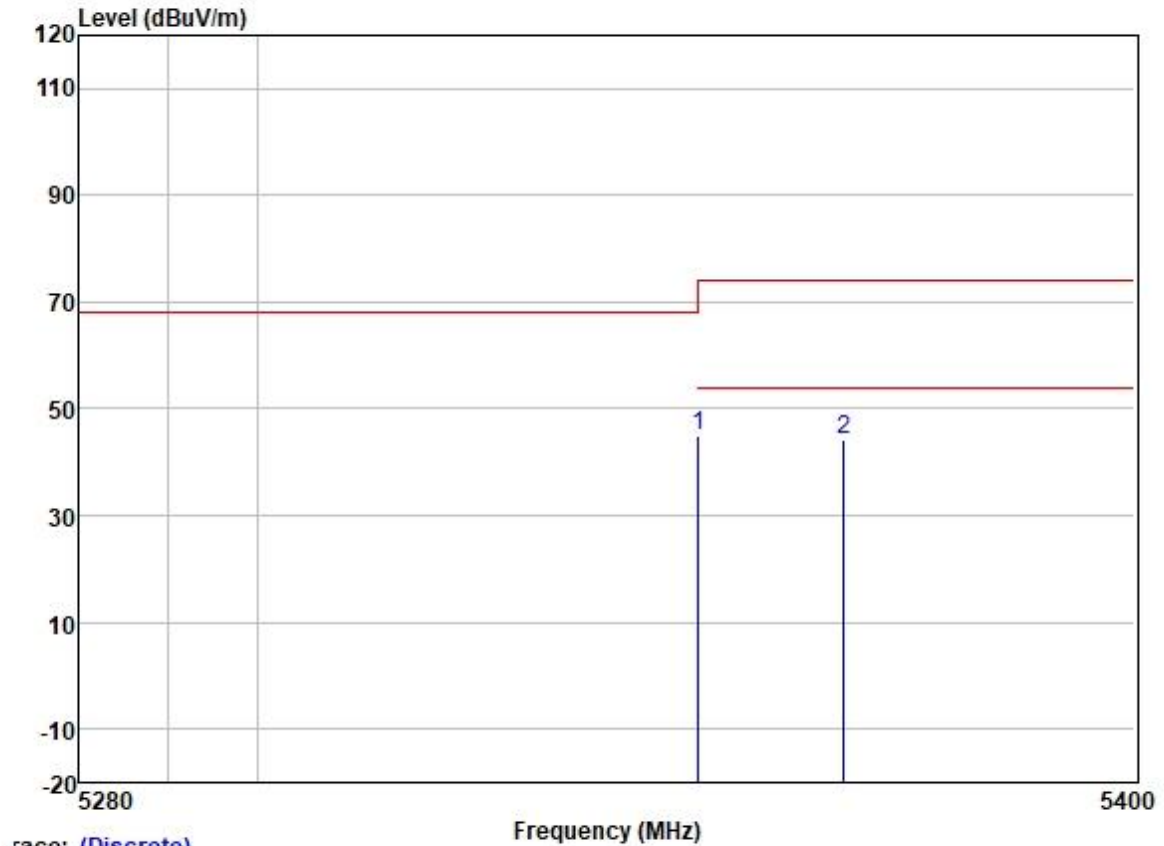
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5350.000	43.90	31.77	6.05	36.24	45.48	68.20	-22.72	VERTICAL Peak
2	5368.540	42.65	31.78	6.03	36.23	44.23	74.00	-29.77	VERTICAL Peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

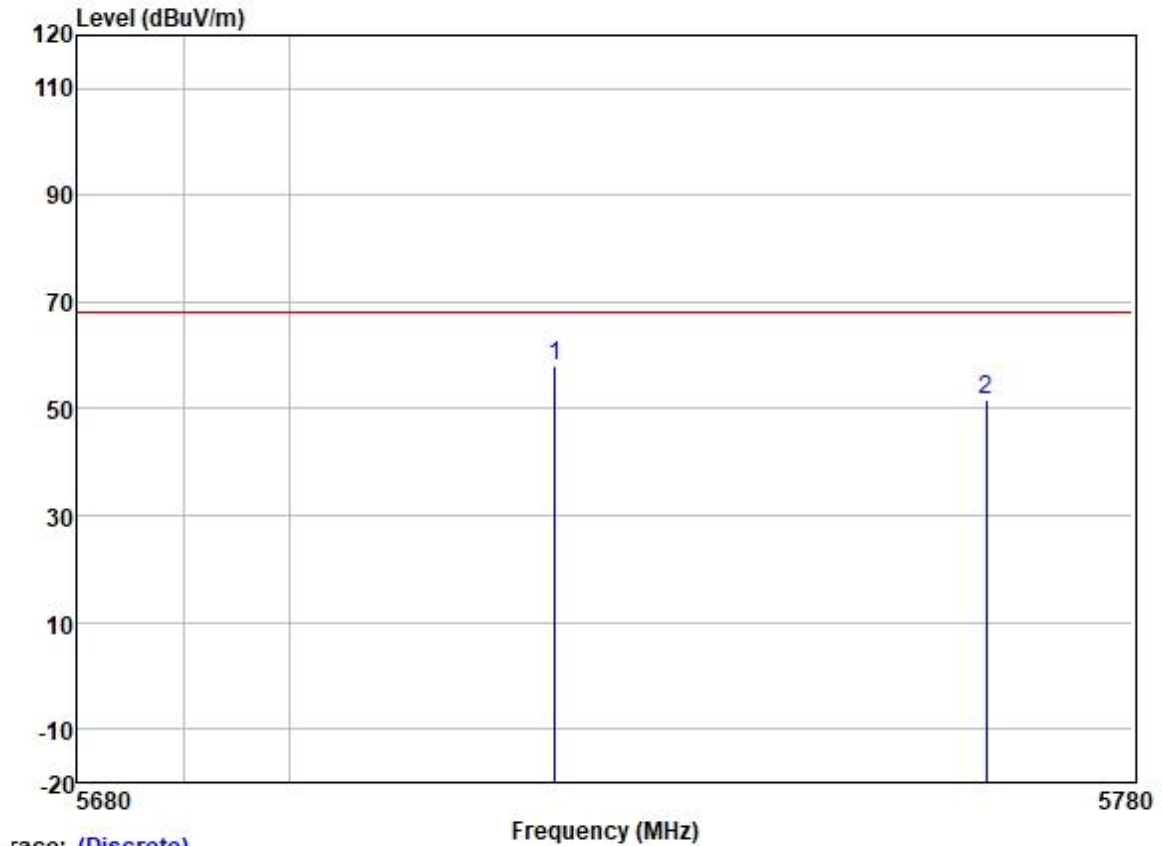


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5350.000	43.48	31.77	6.05	36.24	45.06	68.20	-23.14	HORIZONTAL	Peak
2	5366.610	42.82	31.78	6.03	36.23	44.40	74.00	-29.60	HORIZONTAL	Peak



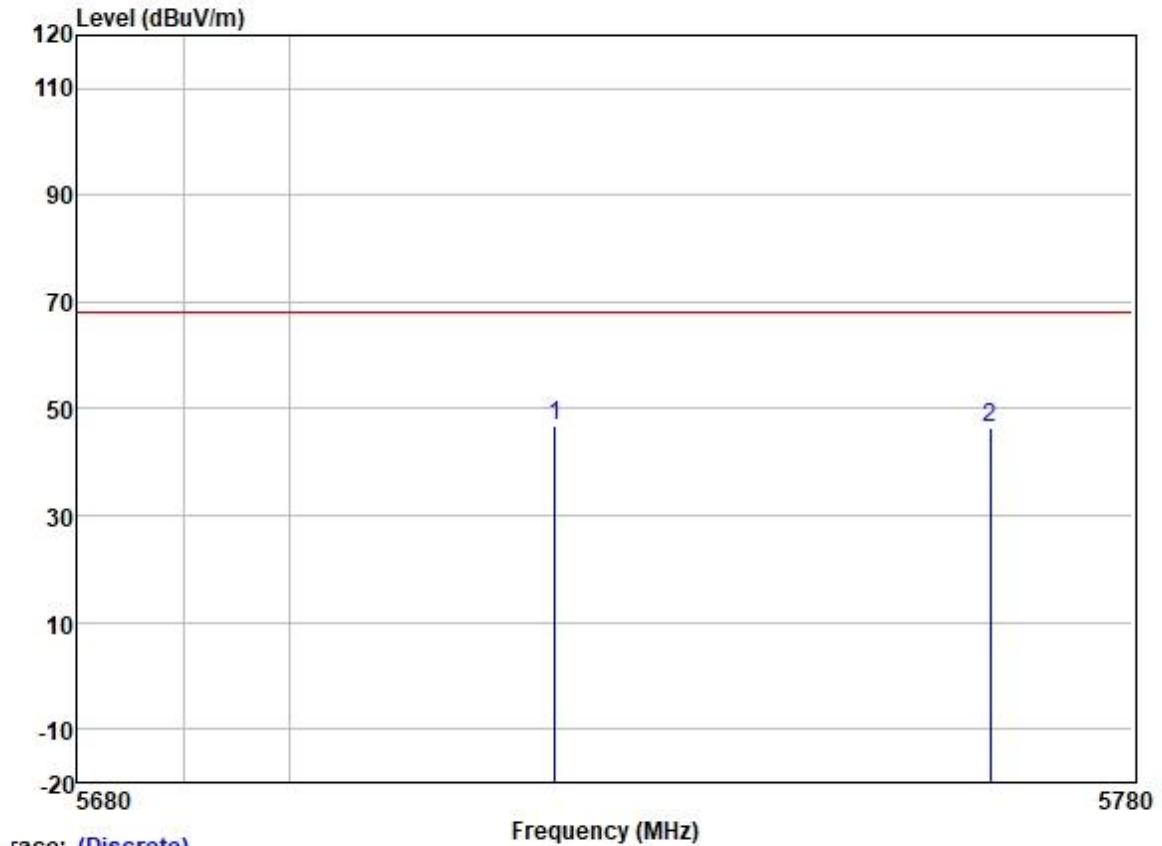
Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5725.000	55.87	32.07	6.25	36.15	58.04	68.20	-10.16	VERTICAL Peak
2	5765.995	49.56	32.13	6.15	36.14	51.70	68.20	-16.50	VERTICAL Peak

Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

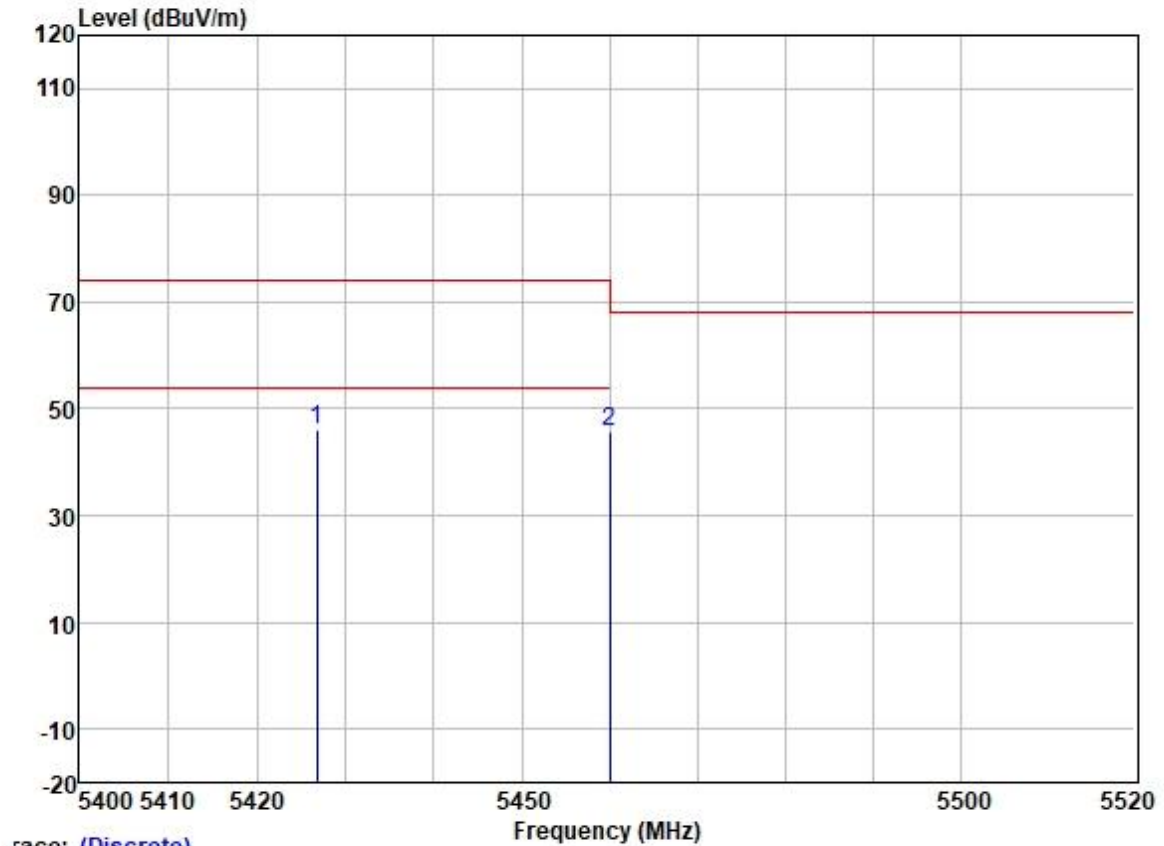


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5725.000	44.70	32.07	6.25	36.15	46.87	68.20	-21.33	HORIZONTAL	Peak
2	5766.398	44.35	32.13	6.15	36.14	46.49	68.20	-21.71	HORIZONTAL	Peak



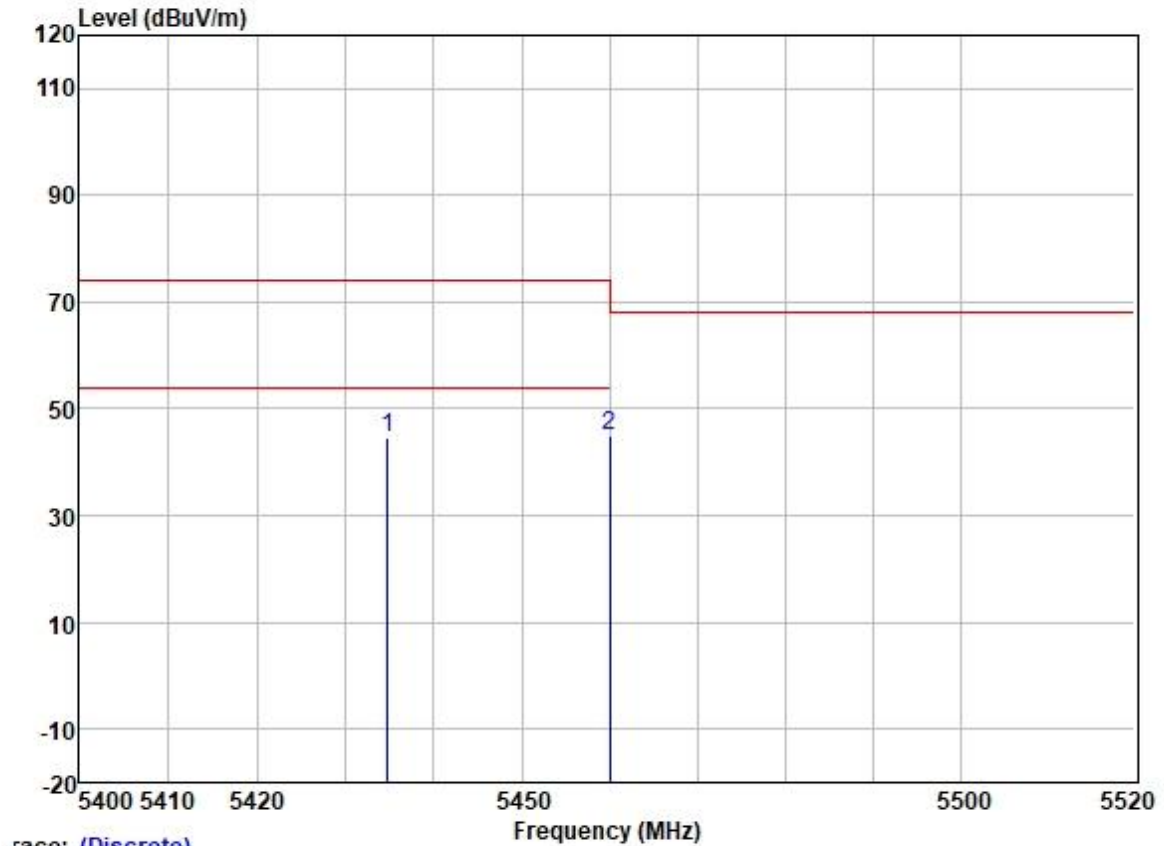
Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5426.771	44.26	31.79	6.13	36.21	45.97	74.00	-28.03	VERTICAL	Peak
2	5460.000	44.01	31.79	6.26	36.21	45.85	68.20	-22.35	VERTICAL	Peak



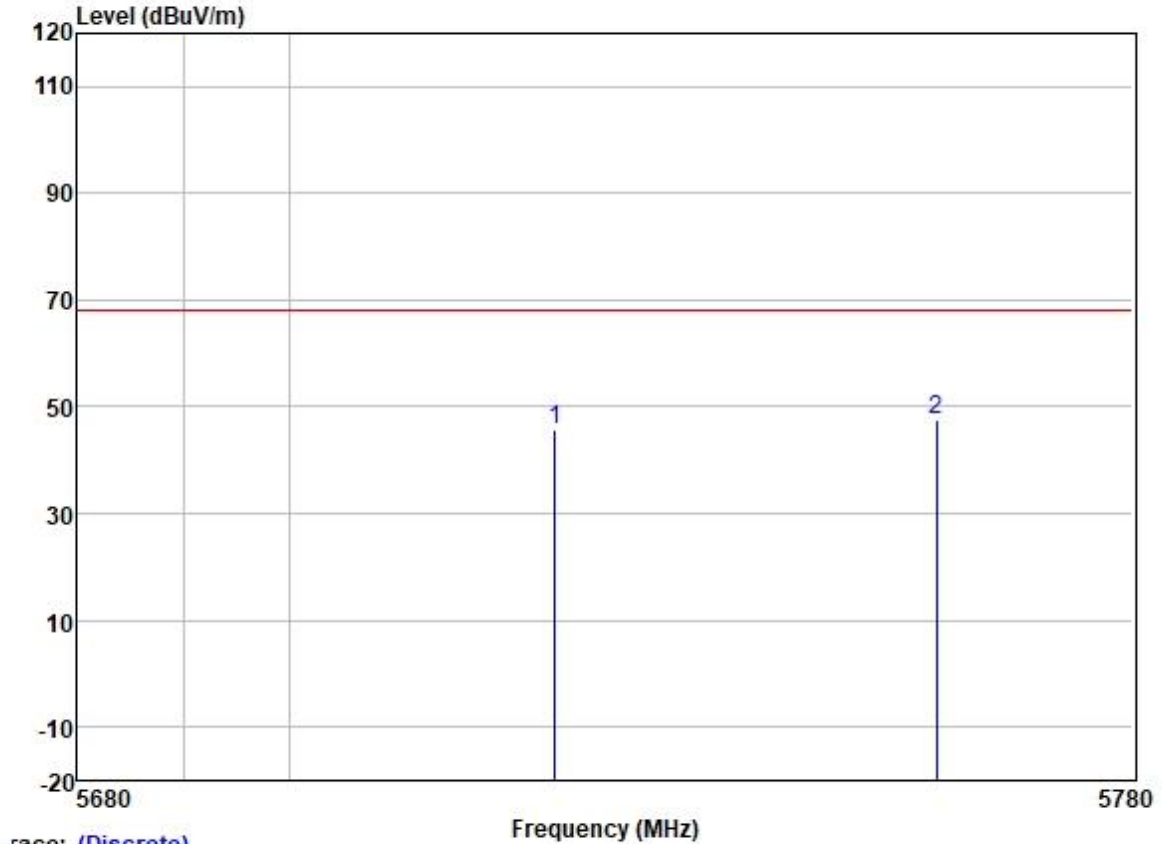
Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5434.768	42.86	31.79	6.20	36.21	44.64	74.00	-29.36	HORIZONTAL Peak
2	5460.000	43.07	31.79	6.26	36.21	44.91	68.20	-23.29	HORIZONTAL Peak

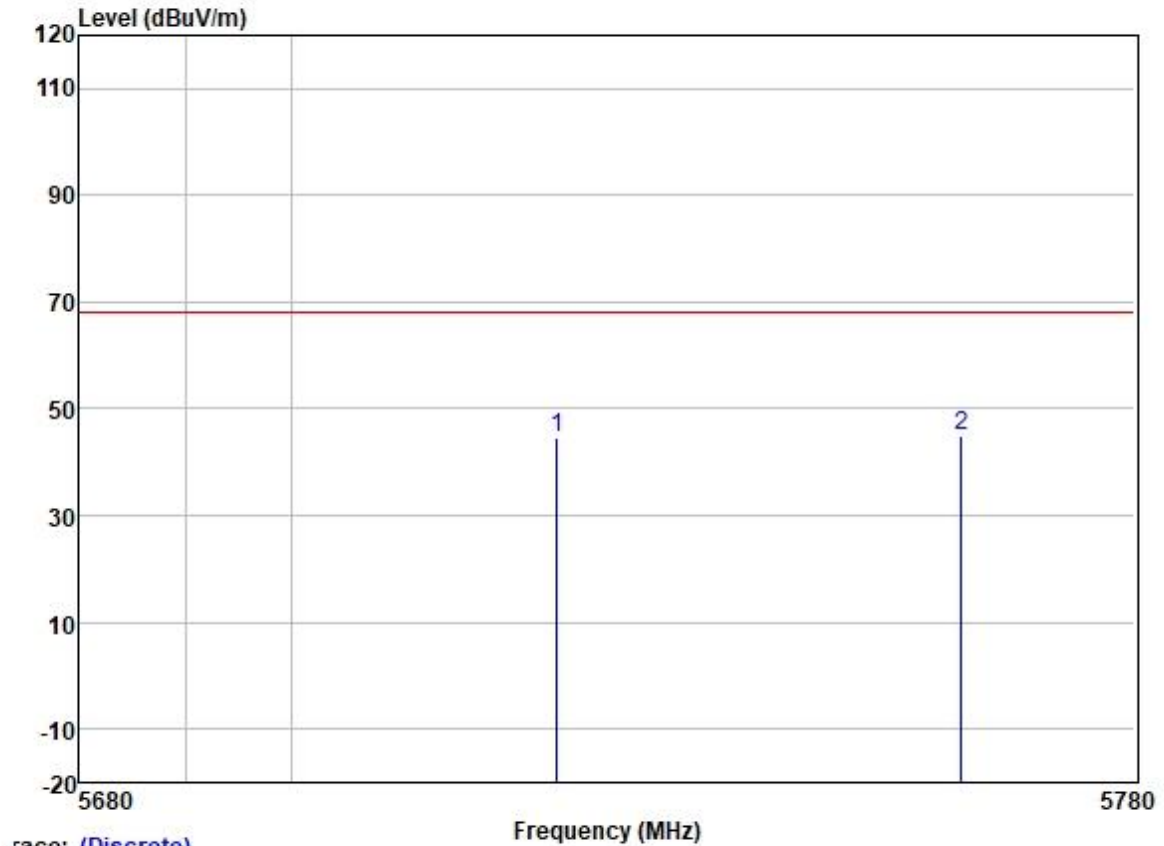
Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5725.000	43.41	32.07	6.25	36.15	45.58	68.20	-22.62	VERTICAL Peak
2	5761.268	45.26	32.13	6.15	36.14	47.40	68.20	-20.80	VERTICAL Peak

Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

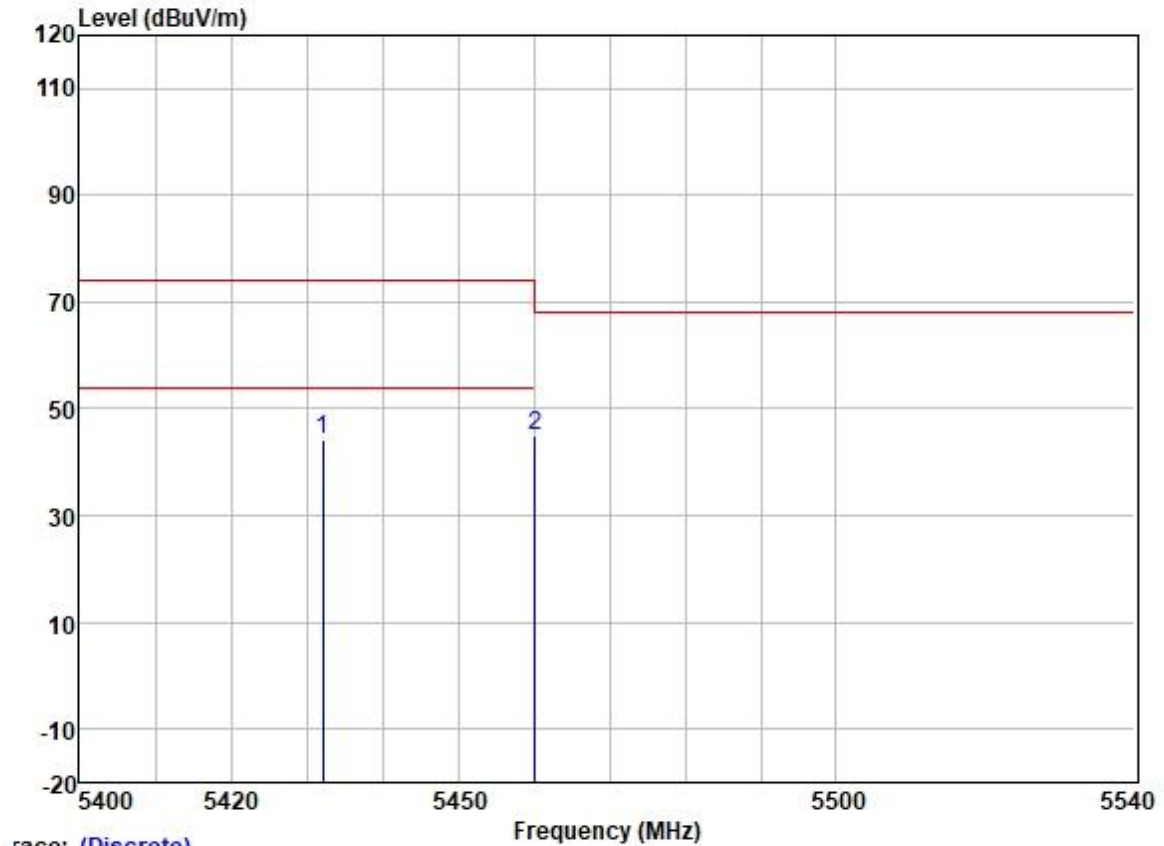


Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5725.000	42.25	32.07	6.25	36.15	44.42	68.20	-23.78	HORIZONTAL	Peak
2	5763.379	42.67	32.13	6.15	36.14	44.81	68.20	-23.39	HORIZONTAL	Peak



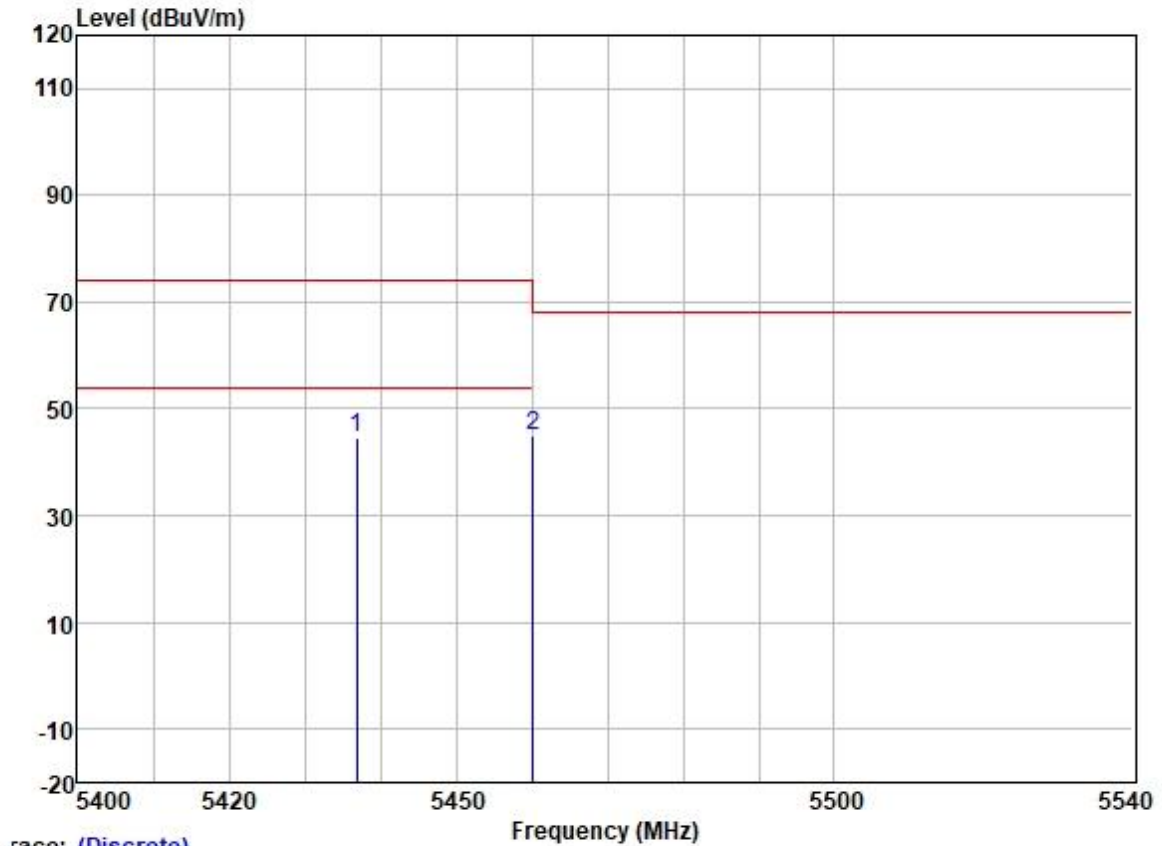
Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5432.022	42.62	31.79	6.13	36.21	44.33	74.00	-29.67	VERTICAL Peak
2	5460.000	43.14	31.79	6.26	36.21	44.98	68.20	-23.22	VERTICAL Peak

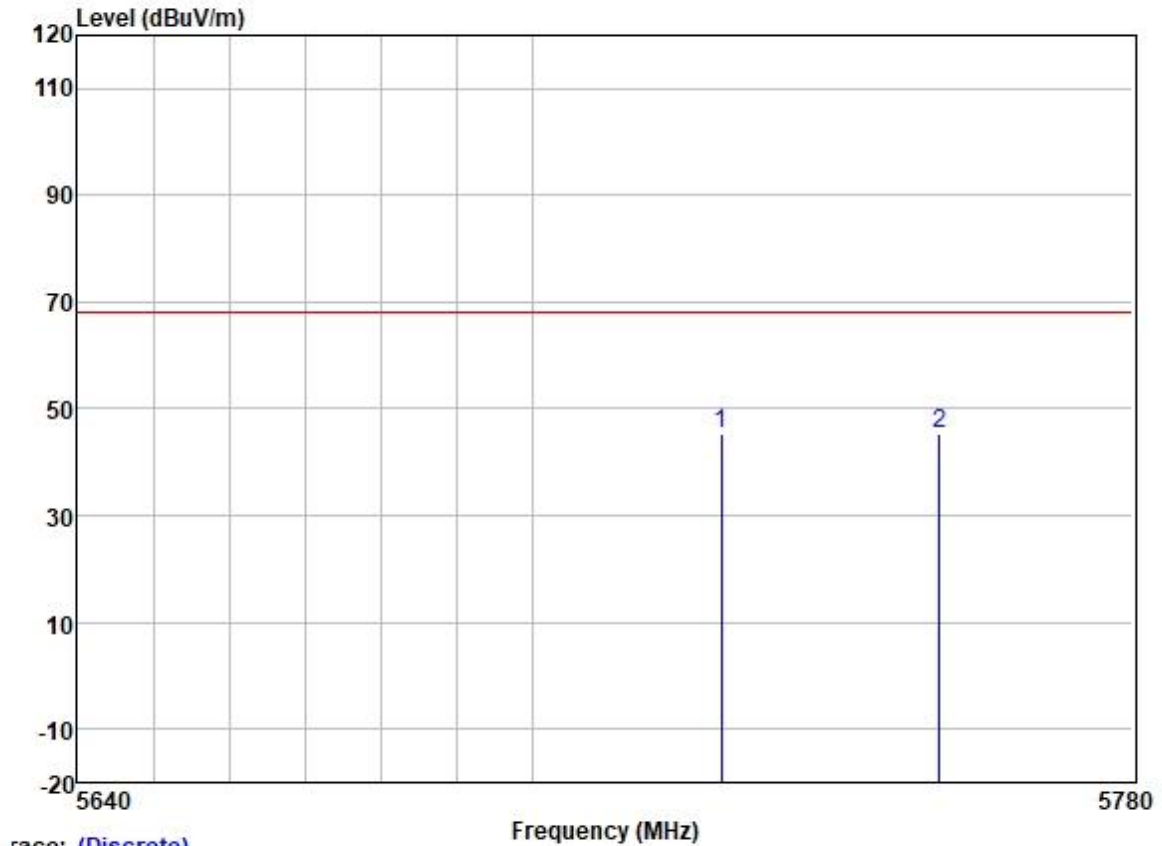
Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5436.752	42.90	31.79	6.20	36.21	44.68	74.00	-29.32	HORIZONTAL	Peak
2	5460.000	43.27	31.79	6.26	36.21	45.11	68.20	-23.09	HORIZONTAL	Peak

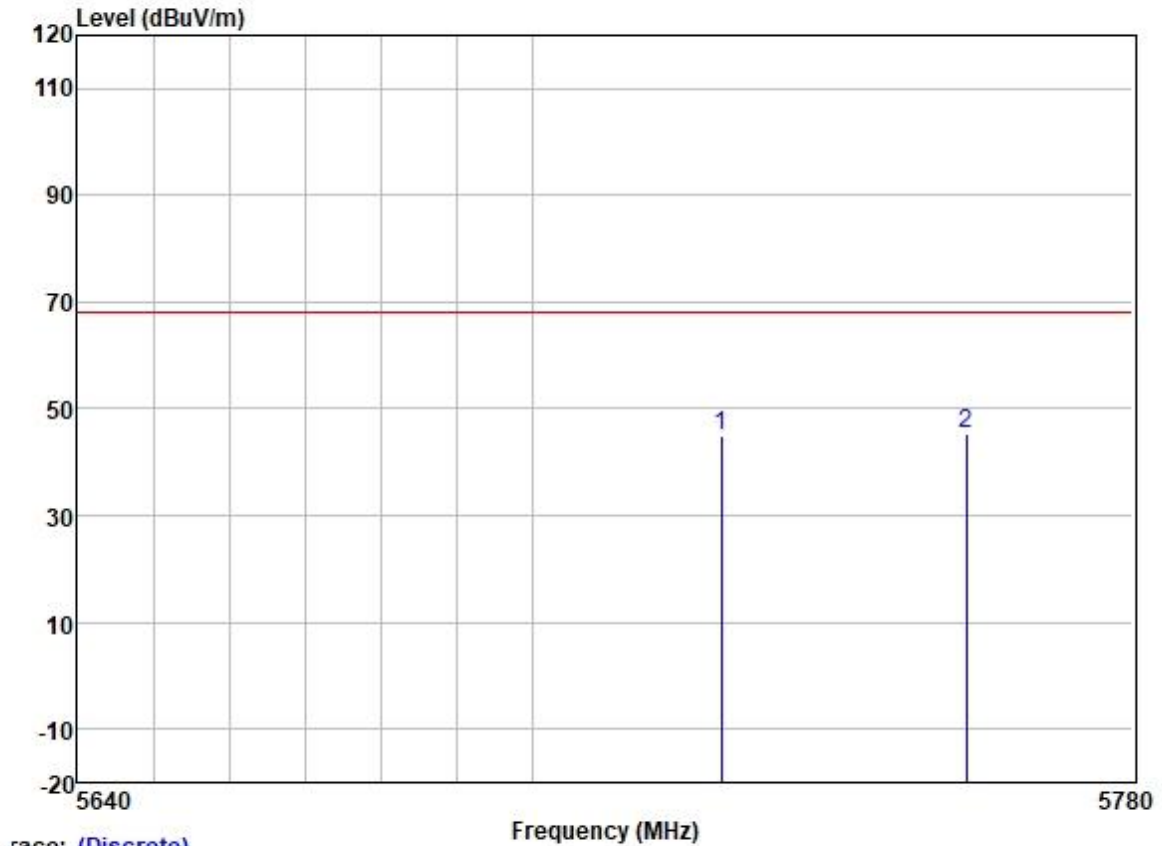
Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5725.000	43.33	32.07	6.25	36.15	45.50	68.20	-22.70	VERTICAL	Peak
2	5754.123	43.01	32.10	6.20	36.14	45.17	68.20	-23.03	VERTICAL	Peak

Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5725.000	42.89	32.07	6.25	36.15	45.06	68.20	-23.14	HORIZONTAL	Peak
2	5757.651	43.15	32.13	6.15	36.14	45.29	68.20	-22.91	HORIZONTAL	Peak

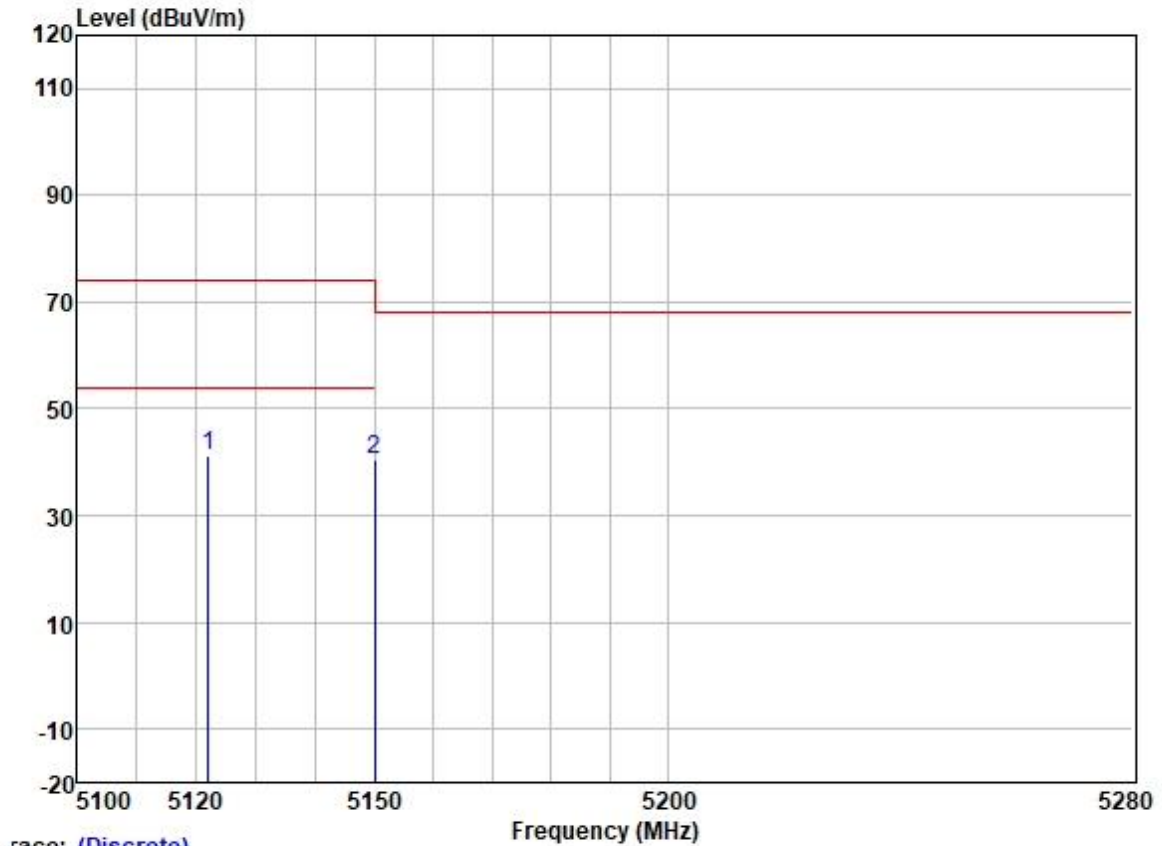


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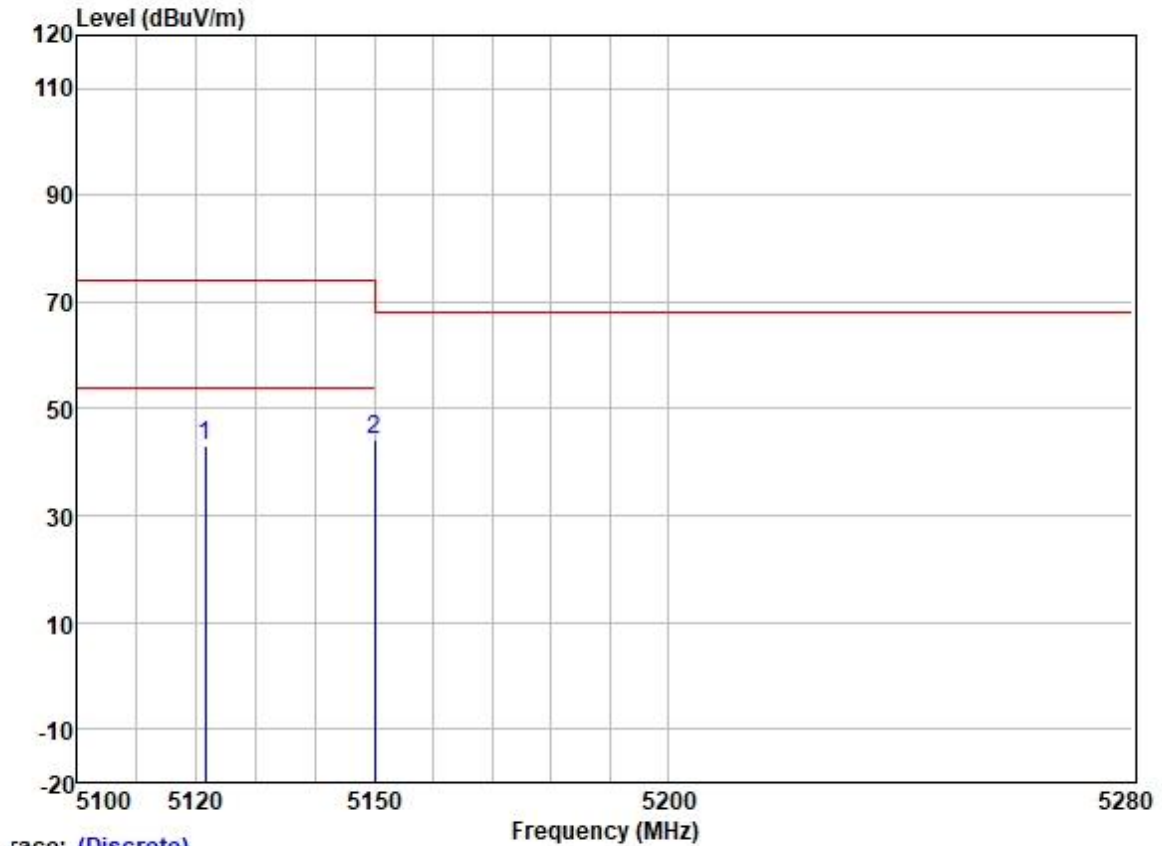
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Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5121.982	40.59	31.72	5.64	36.86	41.09	74.00	-32.91
2	5150.000	39.60	31.72	5.62	36.31	40.63	68.20	-27.57

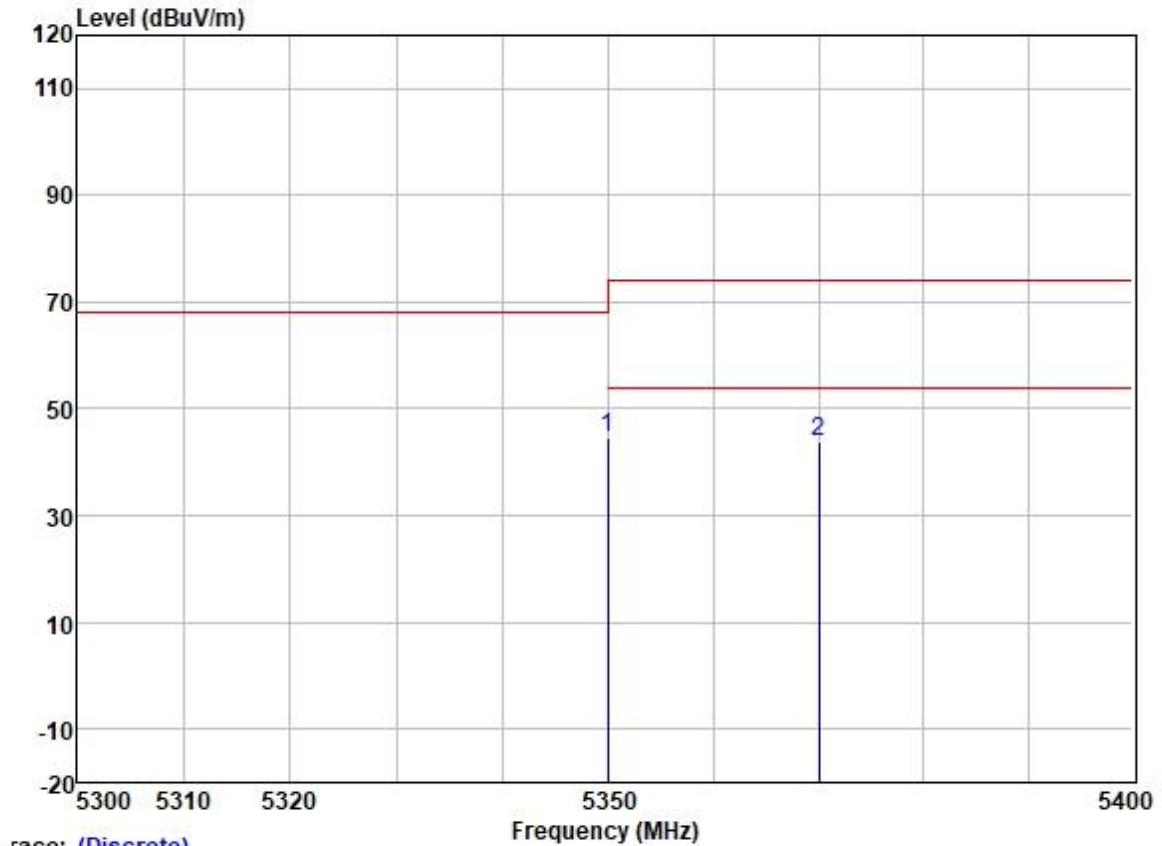
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Trace: (Discrete)

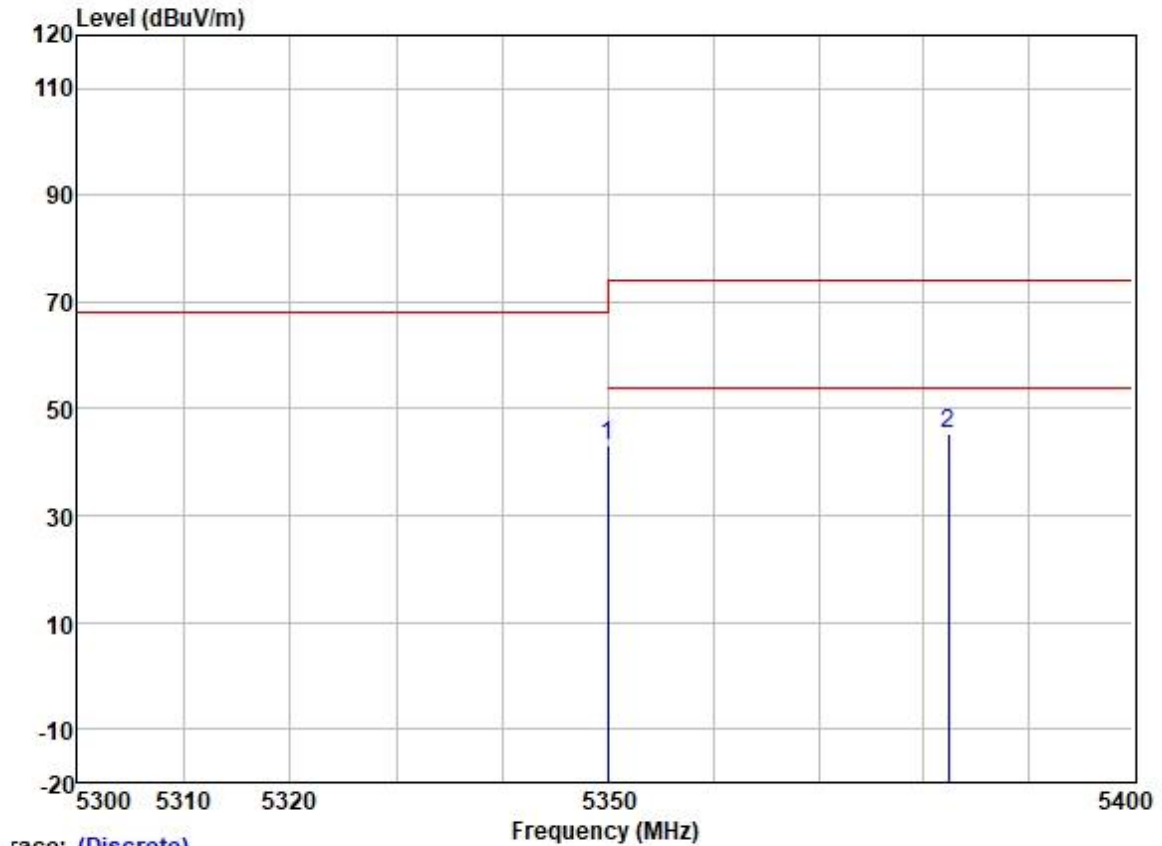
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5121.449	42.71	31.72	5.64	36.86	43.21	74.00	-30.79	VERTICAL Peak
2	5150.000	43.80	31.72	5.62	36.86	44.28	68.20	-23.92	VERTICAL Peak

Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5350.000	43.19	31.77	6.05	36.24	44.77	68.20	-23.43	HORIZONTAL	Peak
2	5370.004	42.33	31.78	6.02	36.23	43.90	74.00	-30.10	HORIZONTAL	Peak

Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5350.000	42.07	31.77	6.05	36.88	43.01	68.20	-25.19	VERTICAL	Peak
2	5382.365	44.53	31.78	6.02	36.88	45.45	74.00	-28.55	VERTICAL	Peak

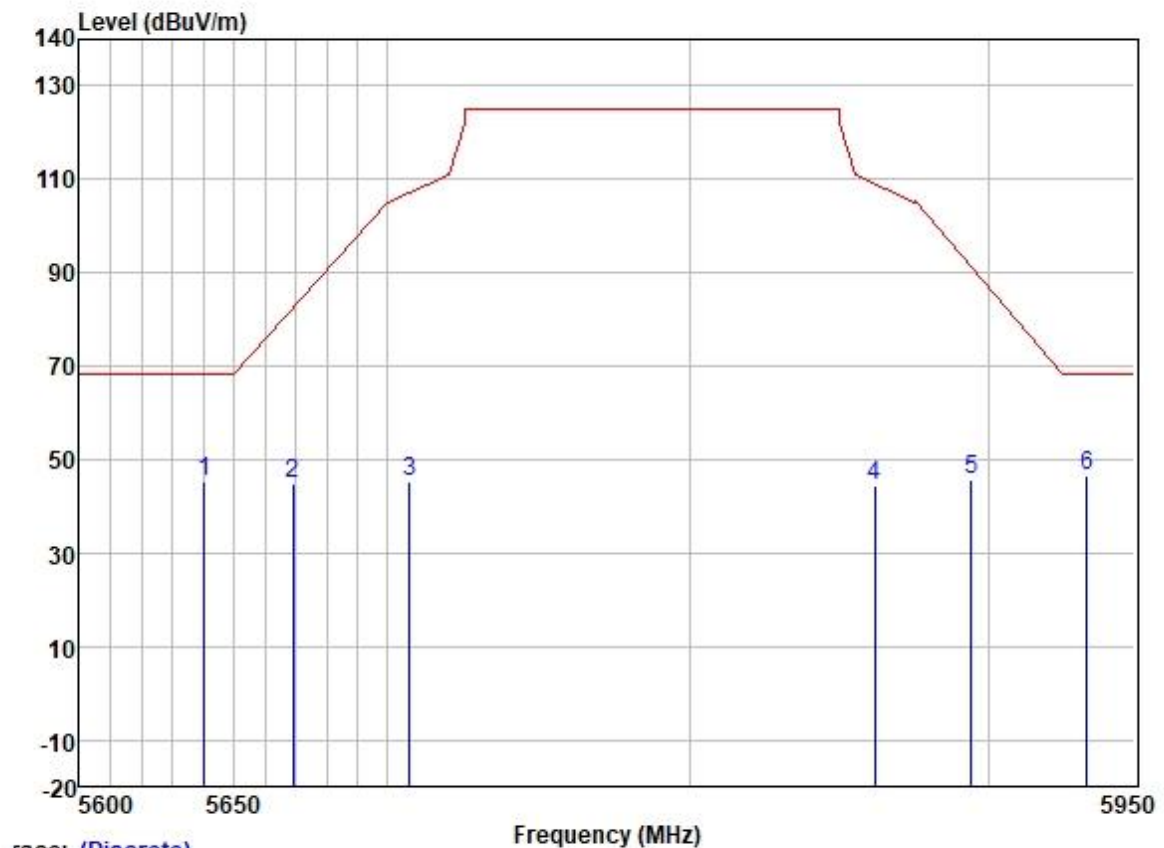


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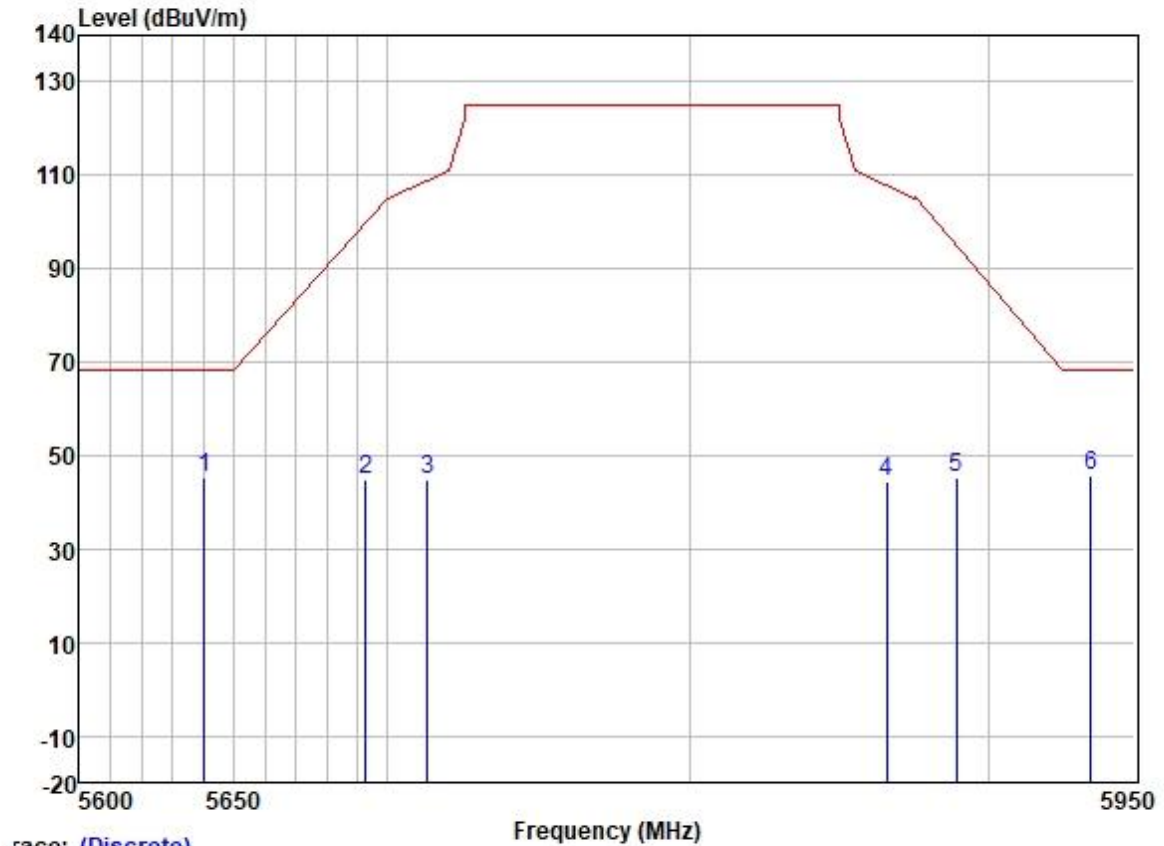
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5640.205	42.95	31.95	6.35	36.16	45.09	68.20	-23.11	VERTICAL Peak
2	5669.000	42.79	31.97	6.37	36.16	44.97	82.30	-37.33	VERTICAL Peak
3	5707.277	42.95	32.04	6.33	36.15	45.17	107.24	-62.07	VERTICAL Peak
4	5861.567	42.36	32.27	5.96	36.12	44.47	108.96	-64.49	VERTICAL Peak
5	5894.351	43.74	32.31	5.90	36.12	45.83	90.89	-45.06	VERTICAL Peak
6	5933.430	44.19	32.34	6.00	36.11	46.42	68.20	-21.78	VERTICAL Peak

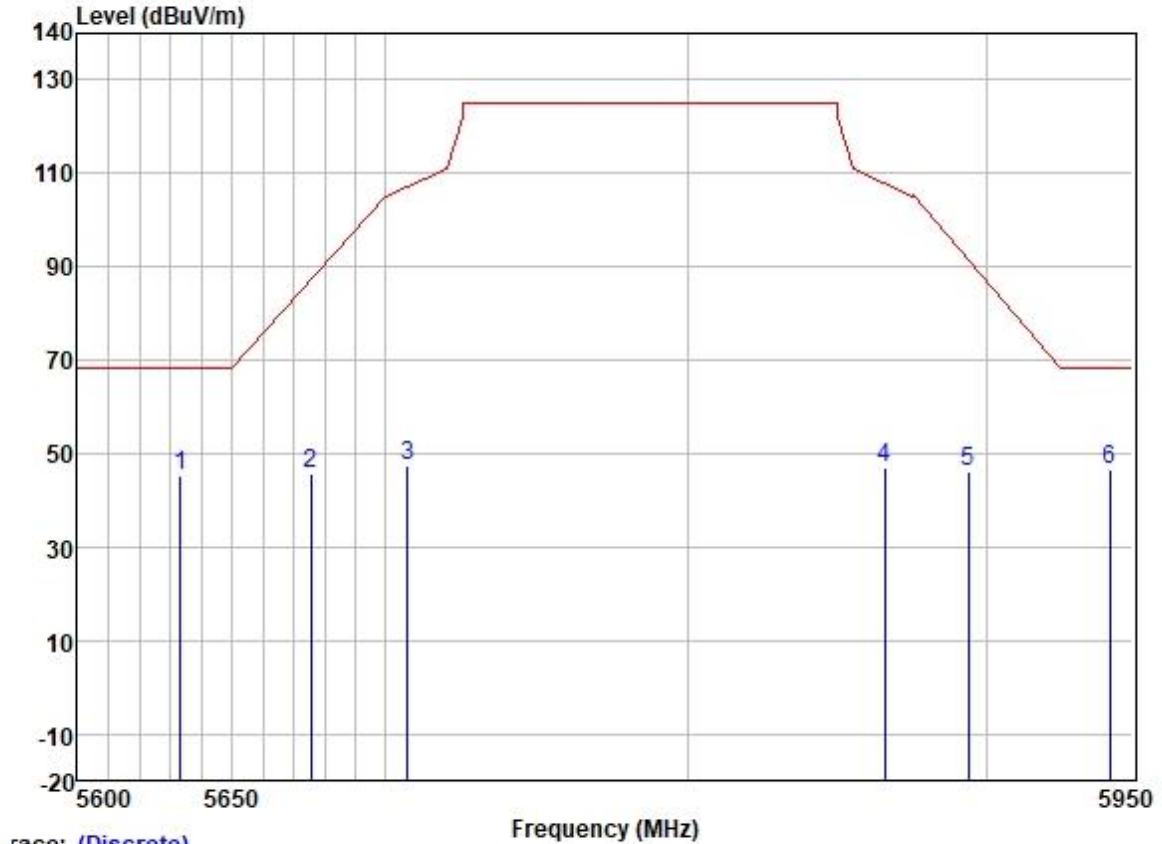
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5640.205	43.18	31.95	6.35	36.16	45.32	68.20	-22.88	HORIZONTAL Peak
2	5692.764	42.64	32.01	6.40	36.15	44.90	99.87	-54.97	HORIZONTAL Peak
3	5713.163	42.67	32.04	6.33	36.15	44.89	108.89	-64.00	HORIZONTAL Peak
4	5865.833	42.36	32.27	5.96	36.12	44.47	107.76	-63.29	HORIZONTAL Peak
5	5889.350	43.15	32.29	5.93	36.12	45.25	94.60	-49.35	HORIZONTAL Peak
6	5934.869	43.35	32.34	6.00	36.11	45.58	68.20	-22.62	HORIZONTAL Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

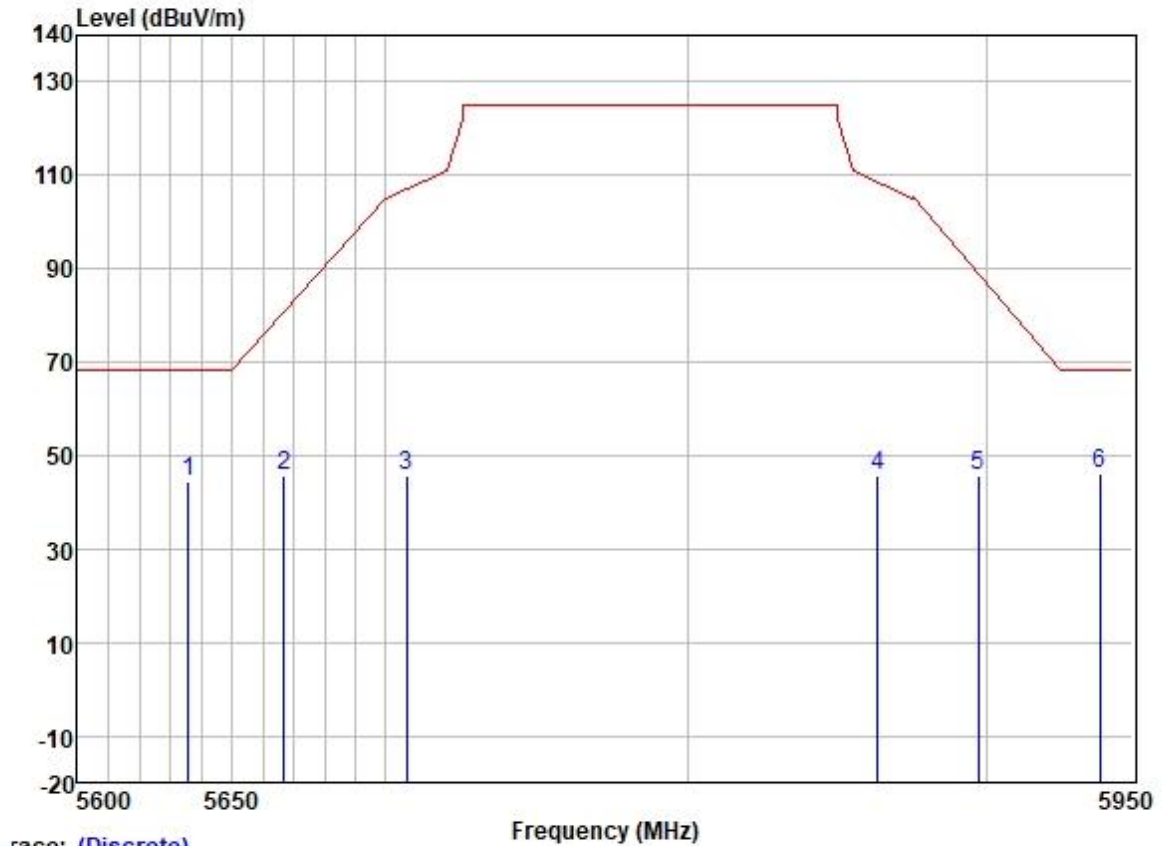


Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5633.370	43.12	31.93	6.33	36.17	45.21	68.20	-22.99	VERTICAL	Peak
2	5675.534	43.56	31.99	6.38	36.16	45.77	87.14	-41.37	VERTICAL	Peak
3	5707.277	45.35	32.04	6.33	36.15	47.57	107.24	-59.67	VERTICAL	Peak
4	5865.833	44.86	32.27	5.96	36.12	46.97	107.76	-60.79	VERTICAL	Peak
5	5893.994	43.88	32.31	5.90	36.12	45.97	91.15	-45.18	VERTICAL	Peak
6	5942.069	44.28	32.36	6.05	36.11	46.58	68.20	-21.62	VERTICAL	Peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

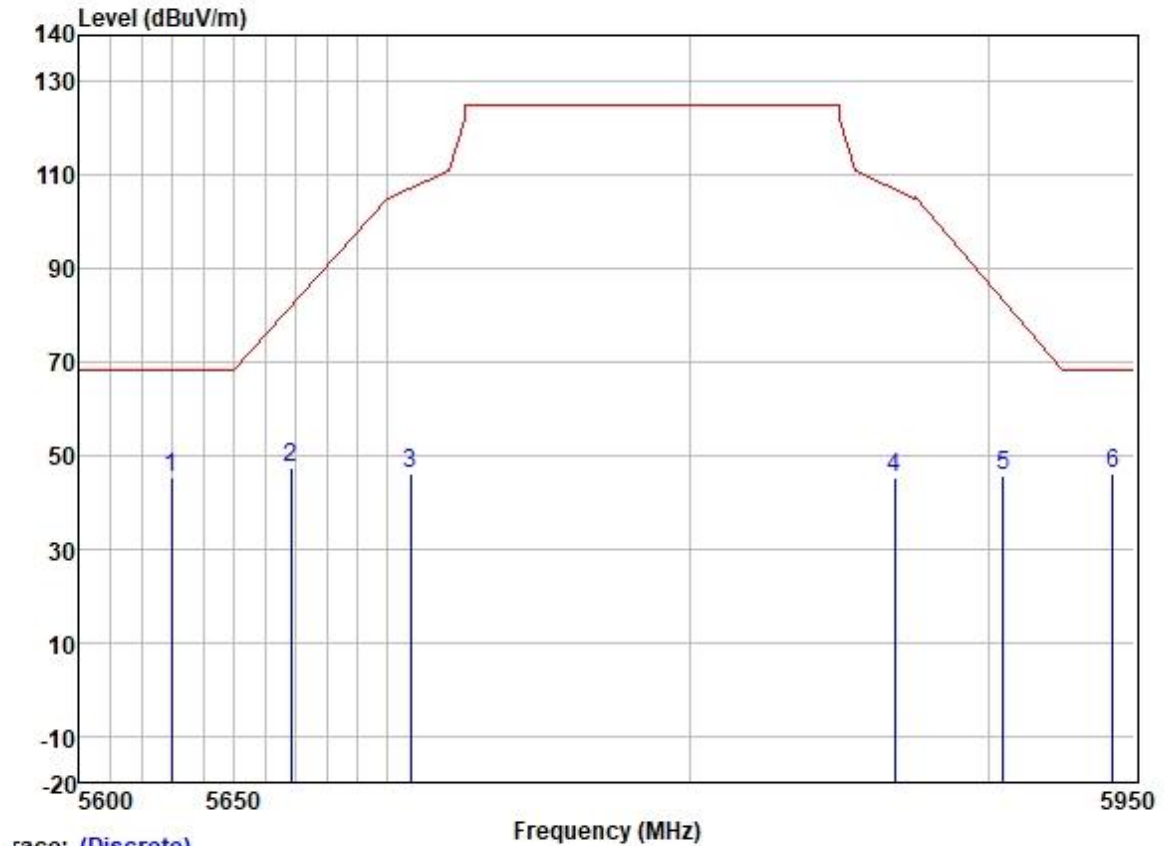


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5635.761	42.48	31.93	6.33	36.17	44.57	68.20	-23.63	HORIZONTAL Peak
2	5666.938	43.57	31.97	6.37	36.16	45.75	80.77	-35.02	HORIZONTAL Peak
3	5706.932	43.63	32.04	6.33	36.15	45.85	107.14	-61.29	HORIZONTAL Peak
4	5863.344	43.47	32.27	5.96	36.12	45.58	108.46	-62.88	HORIZONTAL Peak
5	5897.210	43.73	32.31	5.90	36.12	45.82	88.76	-42.94	HORIZONTAL Peak
6	5938.468	44.04	32.34	6.00	36.11	46.27	68.20	-21.93	HORIZONTAL Peak



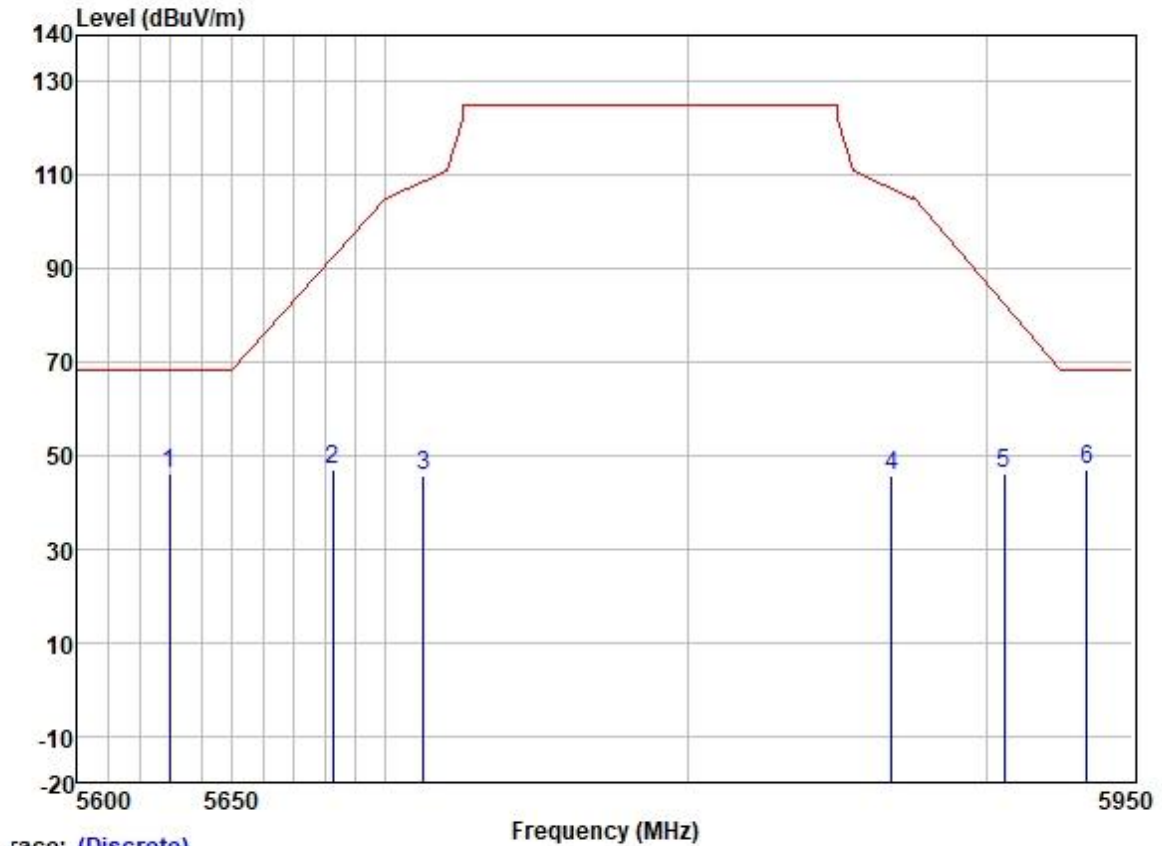
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5629.614	43.11	31.93	6.33	36.17	45.20	68.20	-23.00	VERTICAL Peak
2	5668.313	45.08	31.97	6.37	36.16	47.26	81.79	-34.53	VERTICAL Peak
3	5707.624	43.86	32.04	6.33	36.15	46.08	107.34	-61.26	VERTICAL Peak
4	5868.322	43.16	32.27	5.96	36.12	45.27	107.07	-61.80	VERTICAL Peak
5	5905.081	43.56	32.31	5.90	36.12	45.65	82.93	-37.28	VERTICAL Peak
6	5942.430	44.03	32.36	6.05	36.11	46.33	68.20	-21.87	VERTICAL Peak

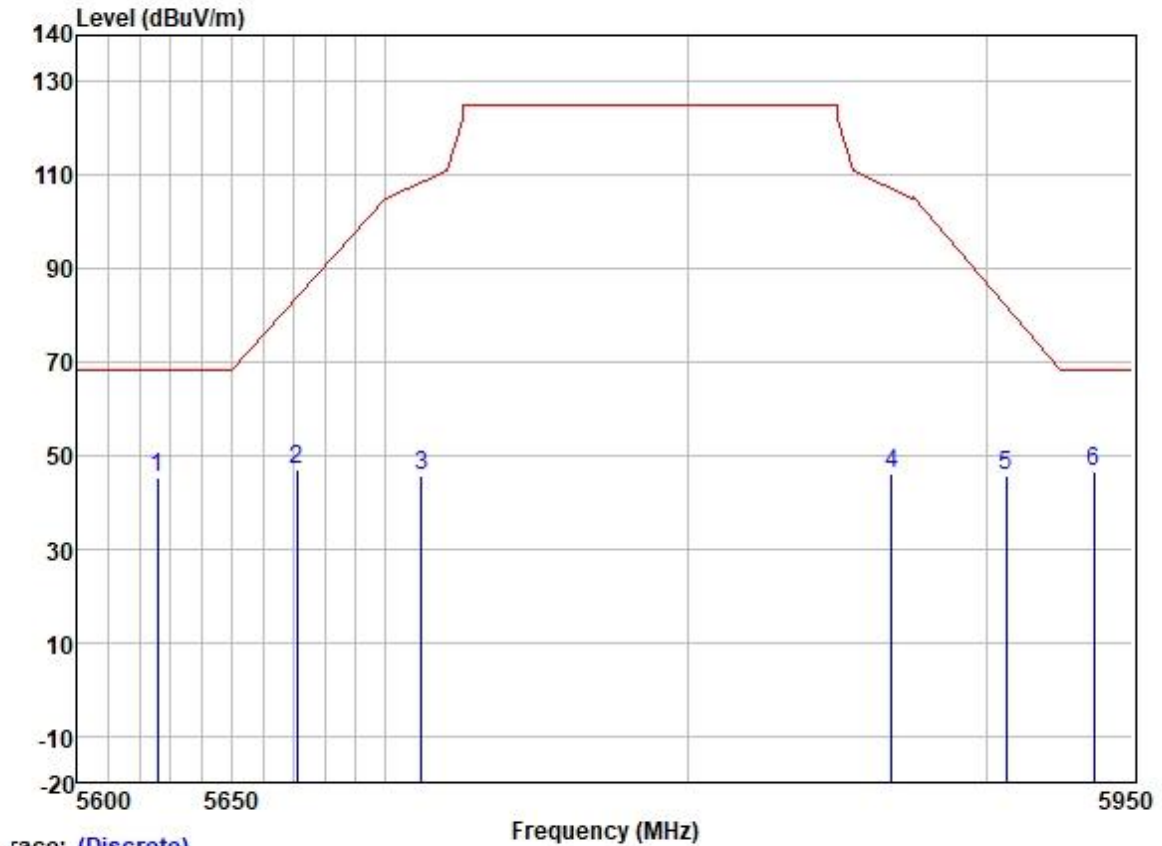
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5629.614	43.83	31.93	6.33	36.17	45.92	68.20	-22.28	HORIZONTAL Peak
2	5682.764	44.79	31.99	6.38	36.16	47.00	92.48	-45.48	HORIZONTAL Peak
3	5712.470	43.50	32.04	6.33	36.15	45.72	108.69	-62.97	HORIZONTAL Peak
4	5867.967	43.74	32.27	5.96	36.12	45.85	107.17	-61.32	HORIZONTAL Peak
5	5906.155	44.20	32.31	5.90	36.12	46.29	82.13	-35.84	HORIZONTAL Peak
6	5934.149	44.56	32.34	6.00	36.11	46.79	68.20	-21.41	HORIZONTAL Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5625.861	43.07	31.93	6.33	36.17	45.16	68.20	-23.04	VERTICAL Peak
2	5671.063	44.68	31.97	6.37	36.16	46.86	83.83	-36.97	VERTICAL Peak
3	5711.777	43.59	32.04	6.33	36.15	45.81	108.50	-62.69	VERTICAL Peak
4	5867.967	44.08	32.27	5.96	36.12	46.19	107.17	-60.98	VERTICAL Peak
5	5906.871	43.63	32.31	5.90	36.12	45.72	81.60	-35.88	VERTICAL Peak
6	5936.668	44.53	32.34	6.00	36.11	46.76	68.20	-21.44	VERTICAL Peak

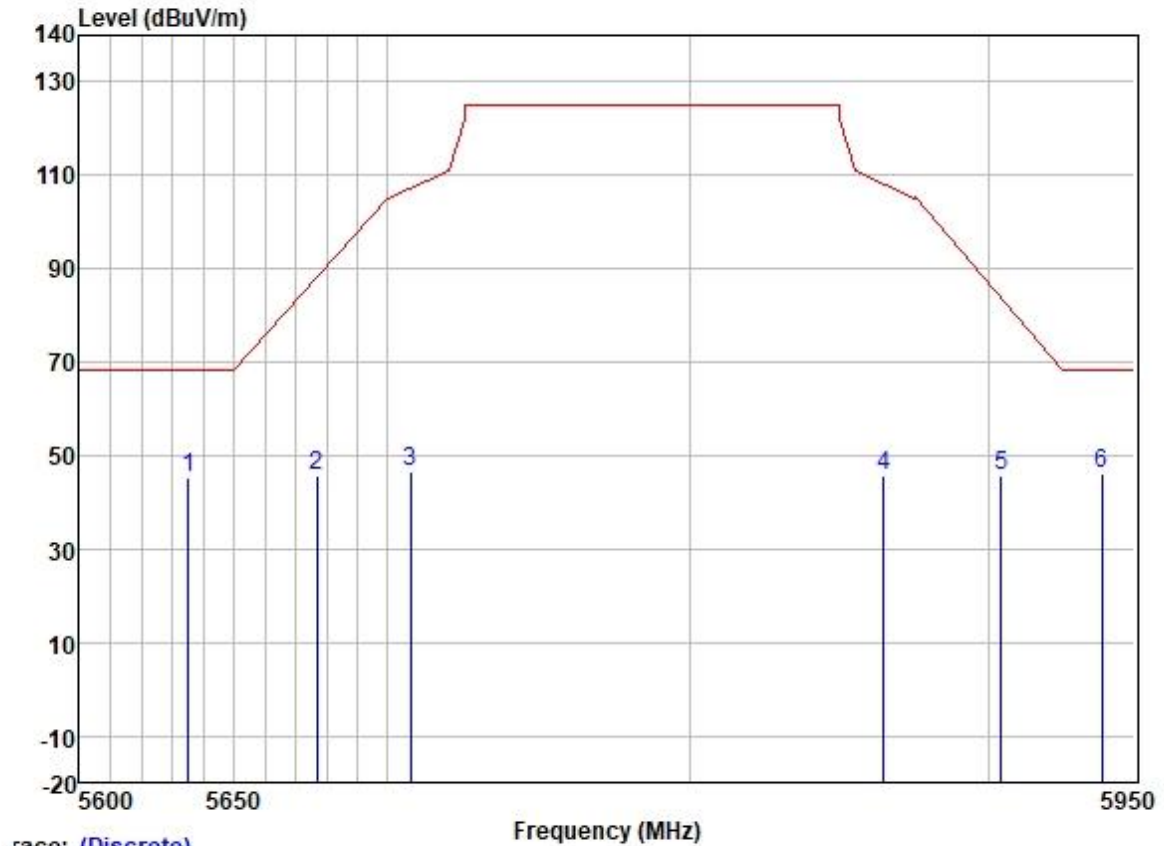


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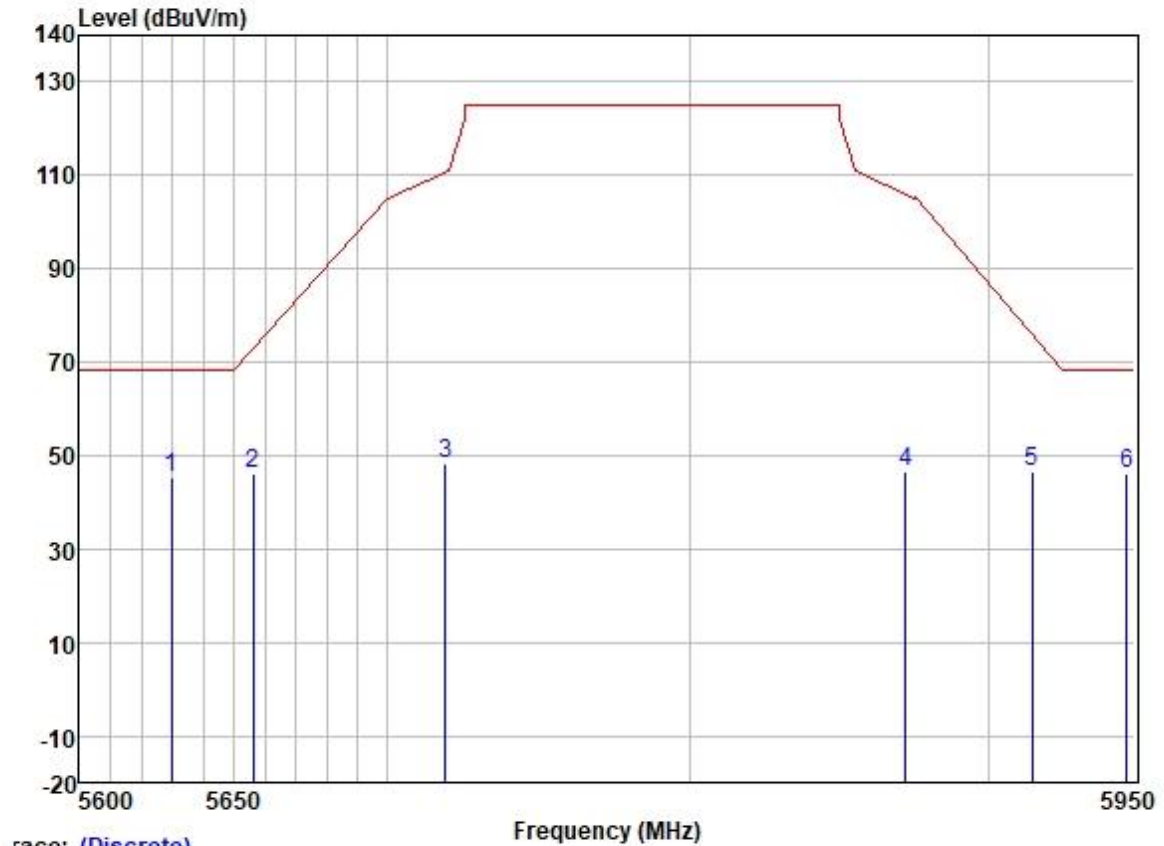


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5635.078	43.12	31.93	6.33	36.17	45.21	68.20	-22.99	HORIZONTAL Peak
2	5676.910	43.67	31.99	6.38	36.16	45.88	88.15	-42.27	HORIZONTAL Peak
3	5707.624	44.25	32.04	6.33	36.15	46.47	107.34	-60.87	HORIZONTAL Peak
4	5864.766	43.72	32.27	5.96	36.12	45.83	108.06	-62.23	HORIZONTAL Peak
5	5904.365	43.56	32.31	5.90	36.12	45.65	83.46	-37.81	HORIZONTAL Peak
6	5938.468	43.99	32.34	6.00	36.11	46.22	68.20	-21.98	HORIZONTAL Peak

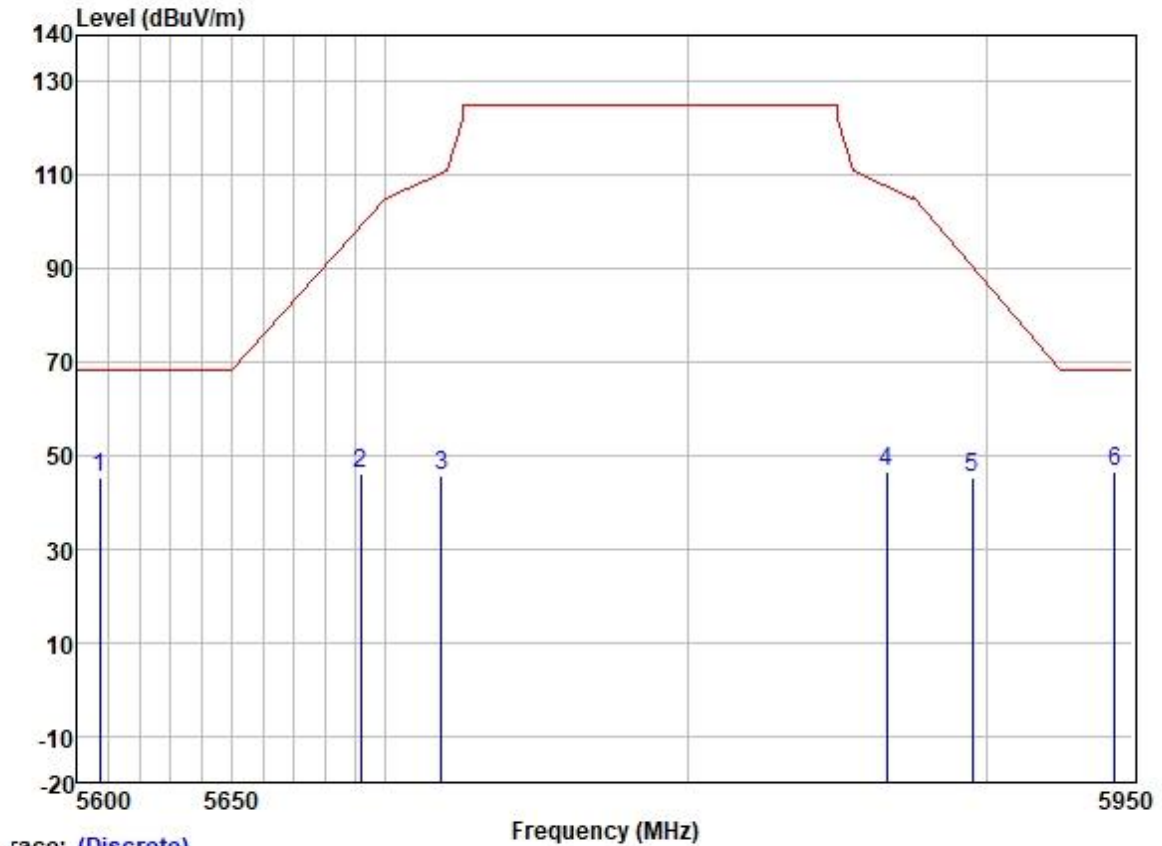


Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5629.614	43.11	31.93	6.33	36.17	45.20	68.20	-23.00	VERTICAL Peak
2	5656.298	43.78	31.95	6.35	36.16	45.92	72.88	-26.96	VERTICAL Peak
3	5719.054	46.11	32.04	6.33	36.15	48.33	110.54	-62.21	VERTICAL Peak
4	5872.237	44.29	32.27	5.96	36.12	46.40	105.97	-59.57	VERTICAL Peak
5	5914.754	44.47	32.33	5.95	36.11	46.64	75.77	-29.13	VERTICAL Peak
6	5947.115	43.75	32.36	6.05	36.11	46.05	68.20	-22.15	VERTICAL Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5607.134	43.14	31.89	6.30	36.17	45.16	68.20	-23.04	HORIZONTAL	Peak
2	5691.729	43.77	32.01	6.40	36.15	46.03	99.10	-53.07	HORIZONTAL	Peak
3	5718.360	43.56	32.04	6.33	36.15	45.78	110.34	-64.56	HORIZONTAL	Peak
4	5866.544	44.54	32.27	5.96	36.12	46.65	107.57	-60.92	HORIZONTAL	Peak
5	5895.423	43.09	32.31	5.90	36.12	45.18	90.09	-44.91	HORIZONTAL	Peak
6	5943.871	44.37	32.36	6.05	36.11	46.67	68.20	-21.53	HORIZONTAL	Peak

## 7.10 Frequency Stability

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

### 7.10.1 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



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## 7.11 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

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

### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 60.7 % RH Atmospheric Pressure: 1014 mbar

### 7.11.2 Test Mode Description

**Pre-scan / Mode**  
**Final test Code Description**

Final test 08 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); 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-scan 09 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); 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-scan 10 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); 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.

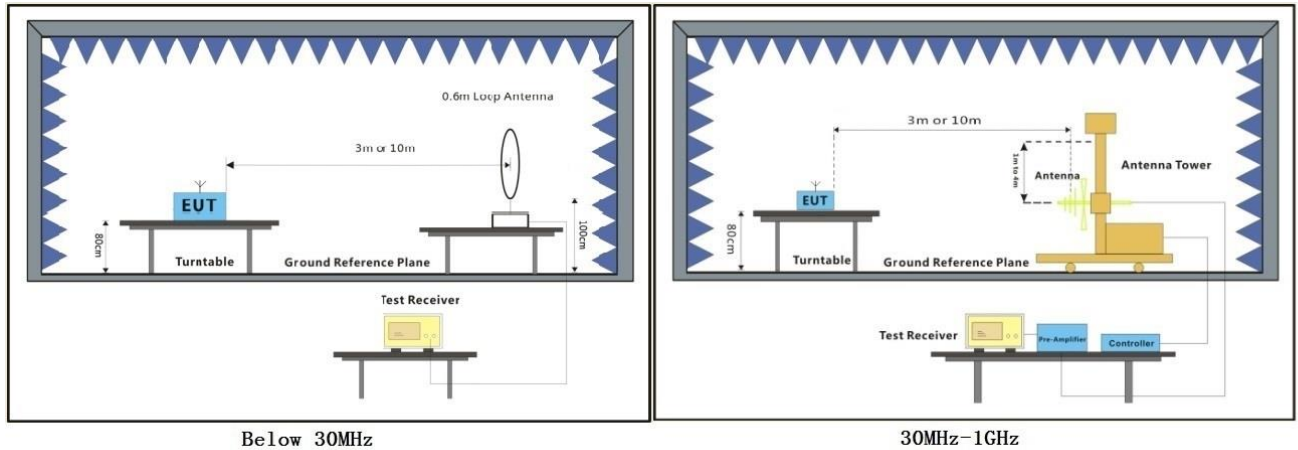




Pre-scan 11

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); 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



**7.11.4 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 or 10 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:

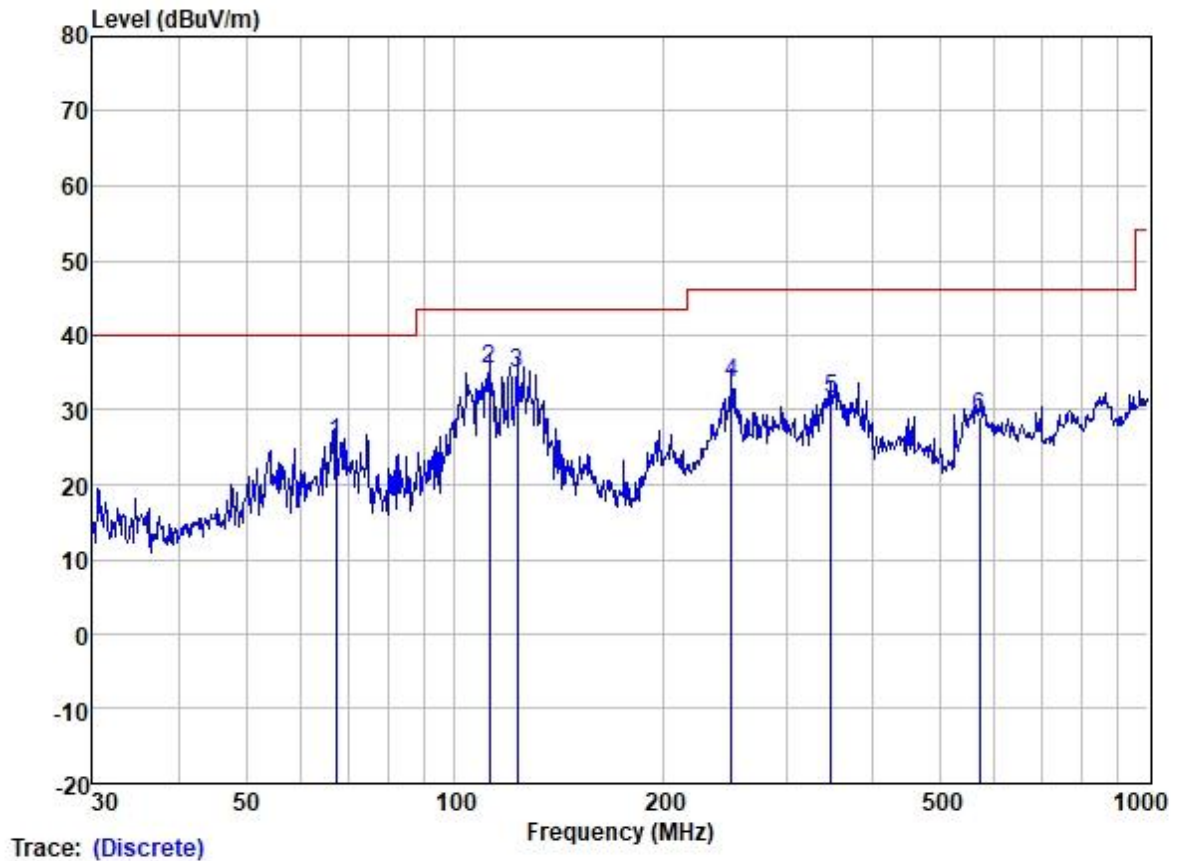
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked 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: 08; Polarity: Horizontal

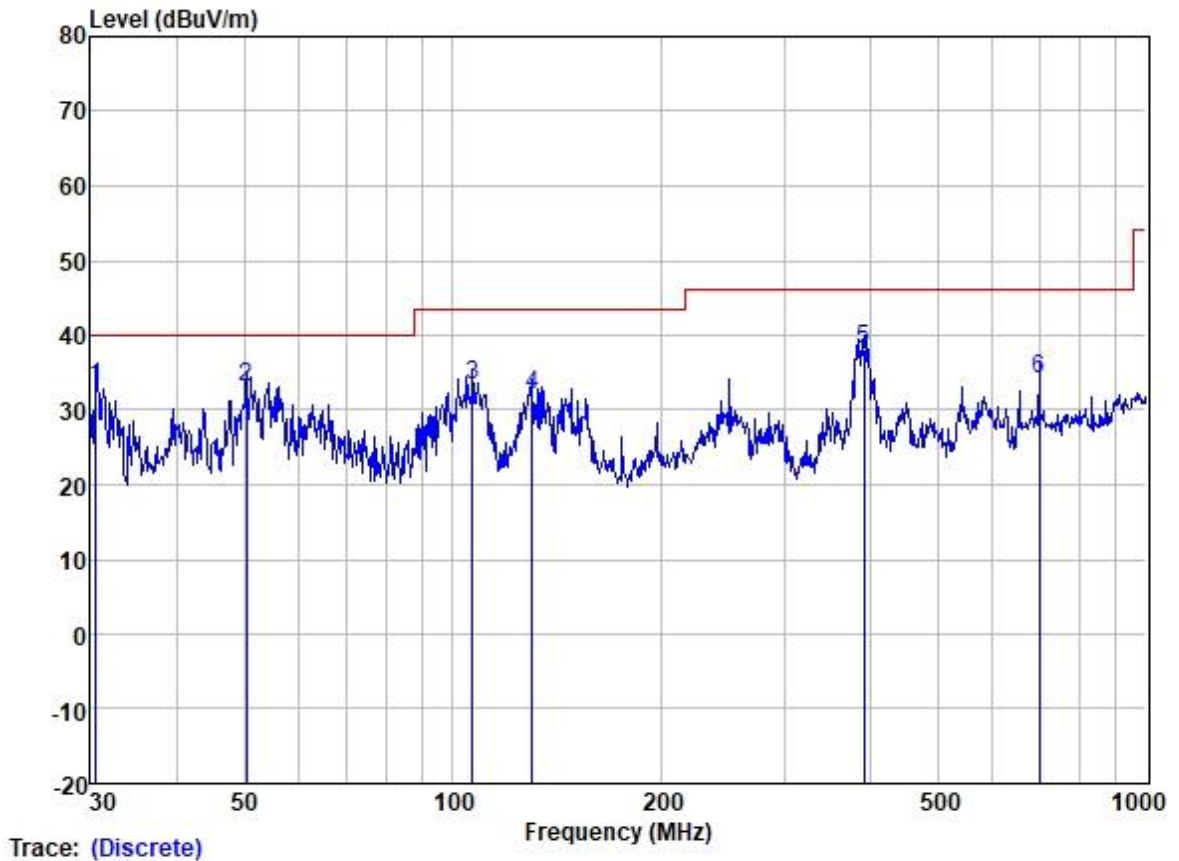


Site : SGS  
Job :  
Model :  
Power :  
Test Mode : WIFI

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	67.438	39.23	12.11	1.38	27.14	25.58	40.00	-14.42	HORIZONTAL	QP
2	112.131	50.65	10.18	1.81	27.05	35.59	43.50	-7.91	HORIZONTAL	QP
3	122.834	48.73	11.29	1.90	27.02	34.90	43.50	-8.60	HORIZONTAL	QP
4	250.301	45.54	11.70	2.92	26.62	33.54	46.00	-12.46	HORIZONTAL	QP
5	349.250	40.74	14.19	3.59	26.99	31.53	46.00	-14.47	HORIZONTAL	QP
6	570.610	33.60	18.70	4.98	28.17	29.11	46.00	-16.89	HORIZONTAL	QP



Test Mode: 08; Polarity: Vertical



Site : SGS  
Job :  
Model :  
Power :  
Test Mode : WIFI

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	30.531	47.15	12.03	1.03	27.20	33.01	40.00	-6.99	VERTICAL	QP
2	50.409	45.37	13.79	1.15	27.17	33.14	40.00	-6.86	VERTICAL	QP
3	106.759	48.87	9.70	1.77	27.07	33.27	43.50	-10.23	VERTICAL	QP
4	129.923	45.34	11.80	1.96	26.99	32.11	43.50	-11.39	VERTICAL	QP
5	392.095	46.13	15.32	3.89	27.30	38.04	46.00	-7.96	VERTICAL	QP
6	701.761	35.81	20.74	5.80	28.16	34.19	46.00	-11.81	VERTICAL	QP



## 8 Test Setup Photo

Refer to Appendix – Test Setup Photos for GZCR220100001205

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2201000012AT

## 10 Appendix

### 10.1 Appendix A1: Emission Bandwidth

#### 10.1.1 Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.160	5169.400	5190.560	---	PASS
	Ant2	5180	21.360	5169.440	5190.800	---	PASS
	Ant1	5200	21.280	5189.400	5210.680	---	PASS
	Ant2	5200	21.240	5189.440	5210.680	---	PASS
	Ant1	5240	21.280	5229.480	5250.760	---	PASS
	Ant2	5240	21.480	5229.400	5250.880	---	PASS
	Ant1	5260	21.120	5249.320	5270.440	---	PASS
	Ant2	5260	21.400	5249.320	5270.720	---	PASS
	Ant1	5280	21.160	5269.440	5290.600	---	PASS
	Ant2	5280	21.400	5269.400	5290.800	---	PASS
	Ant1	5320	21.160	5309.440	5330.600	---	PASS
	Ant2	5320	21.080	5309.400	5330.480	---	PASS
	Ant1	5500	21.240	5489.520	5510.760	---	PASS
	Ant2	5500	21.040	5489.600	5510.640	---	PASS
	Ant1	5580	20.960	5569.560	5590.520	---	PASS
	Ant2	5580	21.280	5569.280	5590.560	---	PASS
	Ant1	5700	21.320	5689.440	5710.760	---	PASS
	Ant2	5700	21.200	5689.400	5710.600	---	PASS
	Ant1	5745	21.200	5734.400	5755.600	---	PASS
	Ant2	5745	21.240	5734.400	5755.640	---	PASS
	Ant1	5785	21.280	5774.400	5795.680	---	PASS
	Ant2	5785	21.280	5774.320	5795.600	---	PASS
	Ant1	5825	21.160	5814.560	5835.720	---	PASS
	Ant2	5825	21.200	5814.400	5835.600	---	PASS
11N20MIMO	Ant1	5180	21.520	5169.200	5190.720	---	PASS
	Ant2	5180	21.320	5169.280	5190.600	---	PASS
	Ant1	5200	21.360	5189.440	5210.800	---	PASS
	Ant2	5200	21.640	5189.280	5210.920	---	PASS
	Ant1	5240	21.360	5229.320	5250.680	---	PASS
	Ant2	5240	21.440	5229.320	5250.760	---	PASS
	Ant1	5260	21.560	5249.400	5270.960	---	PASS
	Ant2	5260	21.440	5249.320	5270.760	---	PASS
	Ant1	5280	21.320	5269.400	5290.720	---	PASS
	Ant2	5280	21.600	5269.120	5290.720	---	PASS
	Ant1	5320	21.160	5309.440	5330.600	---	PASS
	Ant2	5320	21.680	5309.080	5330.760	---	PASS
	Ant1	5500	21.360	5489.400	5510.760	---	PASS



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	Ant2	5500	21.760	5489.200	5510.960	---	PASS
	Ant1	5580	21.400	5569.280	5590.680	---	PASS
	Ant2	5580	21.640	5569.280	5590.920	---	PASS
	Ant1	5700	21.120	5689.480	5710.600	---	PASS
	Ant2	5700	21.640	5689.280	5710.920	---	PASS
	Ant1	5745	21.120	5734.400	5755.520	---	PASS
	Ant2	5745	21.520	5734.240	5755.760	---	PASS
	Ant1	5785	21.600	5774.160	5795.760	---	PASS
	Ant2	5785	21.640	5774.240	5795.880	---	PASS
	Ant1	5825	21.280	5814.400	5835.680	---	PASS
	Ant2	5825	21.720	5814.120	5835.840	---	PASS
11N40MIMO	Ant1	5190	39.760	5170.240	5210.000	---	PASS
	Ant2	5190	40.000	5170.000	5210.000	---	PASS
	Ant1	5230	39.760	5210.320	5250.080	---	PASS
	Ant2	5230	39.840	5210.160	5250.000	---	PASS
	Ant1	5270	39.680	5250.160	5289.840	---	PASS
	Ant2	5270	40.160	5250.000	5290.160	---	PASS
	Ant1	5310	39.840	5290.080	5329.920	---	PASS
	Ant2	5310	40.320	5290.000	5330.320	---	PASS
	Ant1	5510	39.360	5490.400	5529.760	---	PASS
	Ant2	5510	40.240	5490.000	5530.240	---	PASS
	Ant1	5550	40.000	5530.160	5570.160	---	PASS
	Ant2	5550	39.840	5530.160	5570.000	---	PASS
	Ant1	5670	39.920	5650.400	5690.320	---	PASS
	Ant2	5670	40.240	5650.080	5690.320	---	PASS
	Ant1	5755	39.840	5735.080	5774.920	---	PASS
	Ant2	5755	39.840	5735.000	5774.840	---	PASS
	Ant1	5795	39.840	5775.000	5814.840	---	PASS
	Ant2	5795	40.320	5774.840	5815.160	---	PASS
11AC20MIMO	Ant1	5180	21.480	5169.240	5190.720	---	PASS
	Ant2	5180	21.560	5169.280	5190.840	---	PASS
	Ant1	5200	21.600	5189.160	5210.760	---	PASS
	Ant2	5200	21.600	5189.240	5210.840	---	PASS
	Ant1	5240	21.400	5229.320	5250.720	---	PASS
	Ant2	5240	21.680	5229.200	5250.880	---	PASS
	Ant1	5260	21.400	5249.320	5270.720	---	PASS
	Ant2	5260	21.440	5249.320	5270.760	---	PASS
	Ant1	5280	21.320	5269.360	5290.680	---	PASS
	Ant2	5280	21.280	5269.320	5290.600	---	PASS
	Ant1	5320	21.400	5309.280	5330.680	---	PASS
	Ant2	5320	21.560	5309.160	5330.720	---	PASS
	Ant1	5500	21.360	5489.360	5510.720	---	PASS
	Ant2	5500	21.360	5489.440	5510.800	---	PASS
	Ant1	5580	21.480	5569.280	5590.760	---	PASS
	Ant2	5580	21.600	5569.160	5590.760	---	PASS
	Ant1	5700	21.280	5689.400	5710.680	---	PASS



	Ant2	5700	21.280	5689.400	5710.680	---	PASS
	Ant1	5745	21.400	5734.320	5755.720	---	PASS
	Ant2	5745	21.720	5734.080	5755.800	---	PASS
	Ant1	5785	21.440	5774.280	5795.720	---	PASS
	Ant2	5785	21.520	5774.240	5795.760	---	PASS
	Ant1	5825	21.440	5814.360	5835.800	---	PASS
	Ant2	5825	21.360	5814.360	5835.720	---	PASS
11AC40MIMO	Ant1	5190	39.840	5170.080	5209.920	---	PASS
	Ant2	5190	40.160	5170.000	5210.160	---	PASS
	Ant1	5230	40.080	5210.000	5250.080	---	PASS
	Ant2	5230	39.600	5210.240	5249.840	---	PASS
	Ant1	5270	40.320	5249.840	5290.160	---	PASS
	Ant2	5270	40.160	5250.080	5290.240	---	PASS
	Ant1	5310	39.760	5290.080	5329.840	---	PASS
	Ant2	5310	40.000	5290.000	5330.000	---	PASS
	Ant1	5510	39.680	5490.320	5530.000	---	PASS
	Ant2	5510	40.240	5489.920	5530.160	---	PASS
	Ant1	5550	39.440	5530.400	5569.840	---	PASS
	Ant2	5550	39.840	5530.160	5570.000	---	PASS
	Ant1	5670	40.400	5649.920	5690.320	---	PASS
	Ant2	5670	39.840	5650.320	5690.160	---	PASS
	Ant1	5755	39.680	5735.080	5774.760	---	PASS
	Ant2	5755	40.080	5734.920	5775.000	---	PASS
	Ant1	5795	39.920	5775.000	5814.920	---	PASS
	Ant2	5795	40.000	5774.920	5814.920	---	PASS
11AC80MIMO	Ant1	5210	81.280	5169.520	5250.800	---	PASS
	Ant2	5210	81.280	5169.680	5250.960	---	PASS
	Ant1	5290	81.920	5249.200	5331.120	---	PASS
	Ant2	5290	81.280	5249.360	5330.640	---	PASS
	Ant1	5530	81.440	5489.520	5570.960	---	PASS
	Ant2	5530	81.600	5489.520	5571.120	---	PASS
	Ant1	5610	82.720	5568.880	5651.600	---	PASS
	Ant2	5610	82.080	5569.040	5651.120	---	PASS
	Ant1	5775	82.240	5734.040	5816.280	---	PASS
	Ant2	5775	81.920	5734.040	5815.960	---	PASS

### 10.1.2 Test Graphs



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11A\_Ant1\_5200



11A\_Ant2\_5200



11A\_Ant1\_5240



11A\_Ant2\_5240





11A\_Ant1\_5260



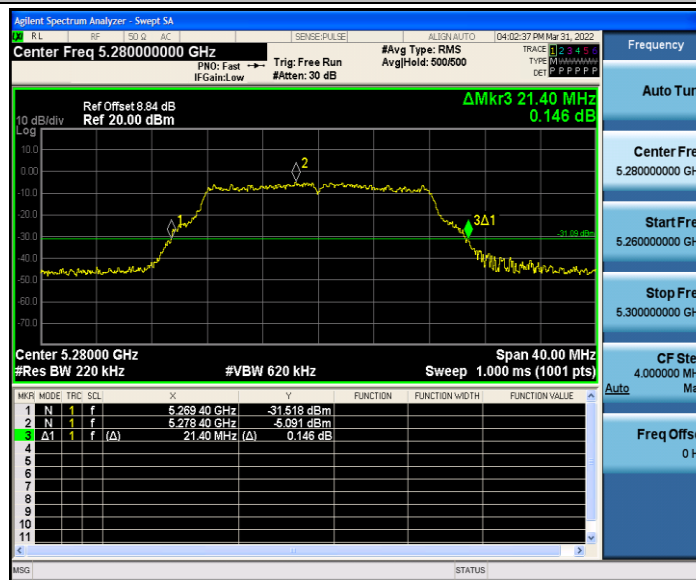
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11A\_Ant1\_5280



11A\_Ant2\_5280



11A\_Ant1\_5320



11A\_Ant2\_5320



11A\_Ant1\_5500



11A\_Ant2\_5500





11A\_Ant1\_5580



11A\_Ant2\_5580



11A\_Ant1\_5700



11A\_Ant2\_5700



11A\_Ant1\_5745



11A\_Ant2\_5745



11A\_Ant1\_5785



11A\_Ant2\_5785





11A\_Ant1\_5825



11A\_Ant2\_5825



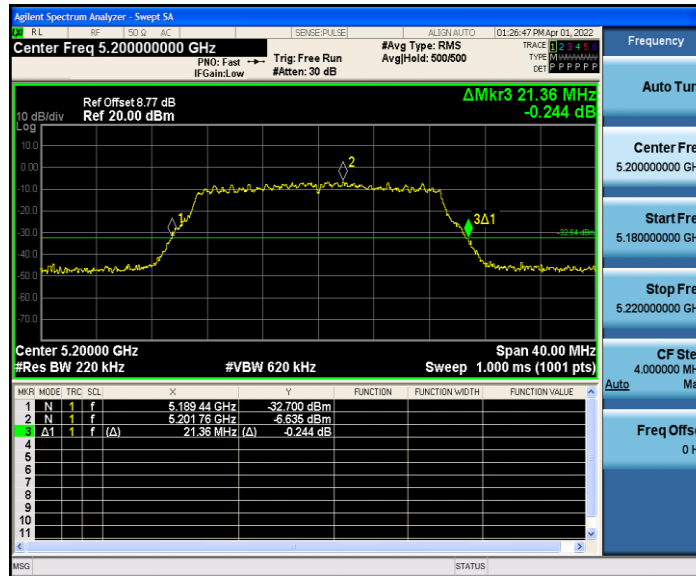
### 11N20MIMO\_Ant1\_5180



### 11N20MIMO\_Ant2\_5180



### 11N20MIMO\_Ant1\_5200



### 11N20MIMO\_Ant2\_5200



### 11N20MIMO\_Ant1\_5240



### 11N20MIMO\_Ant2\_5240





### 11N20MIMO\_Ant1\_5260



### 11N20MIMO\_Ant2\_5260



### 11N20MIMO\_Ant1\_5280



### 11N20MIMO\_Ant2\_5280

