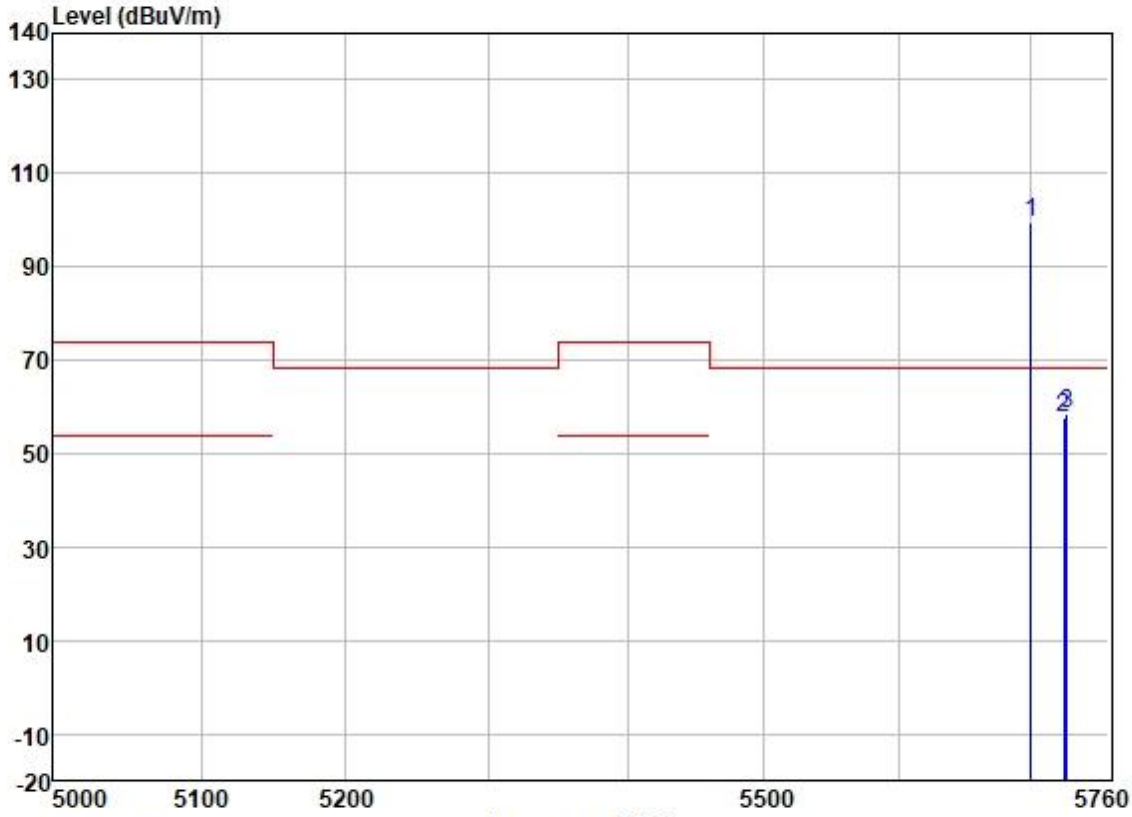
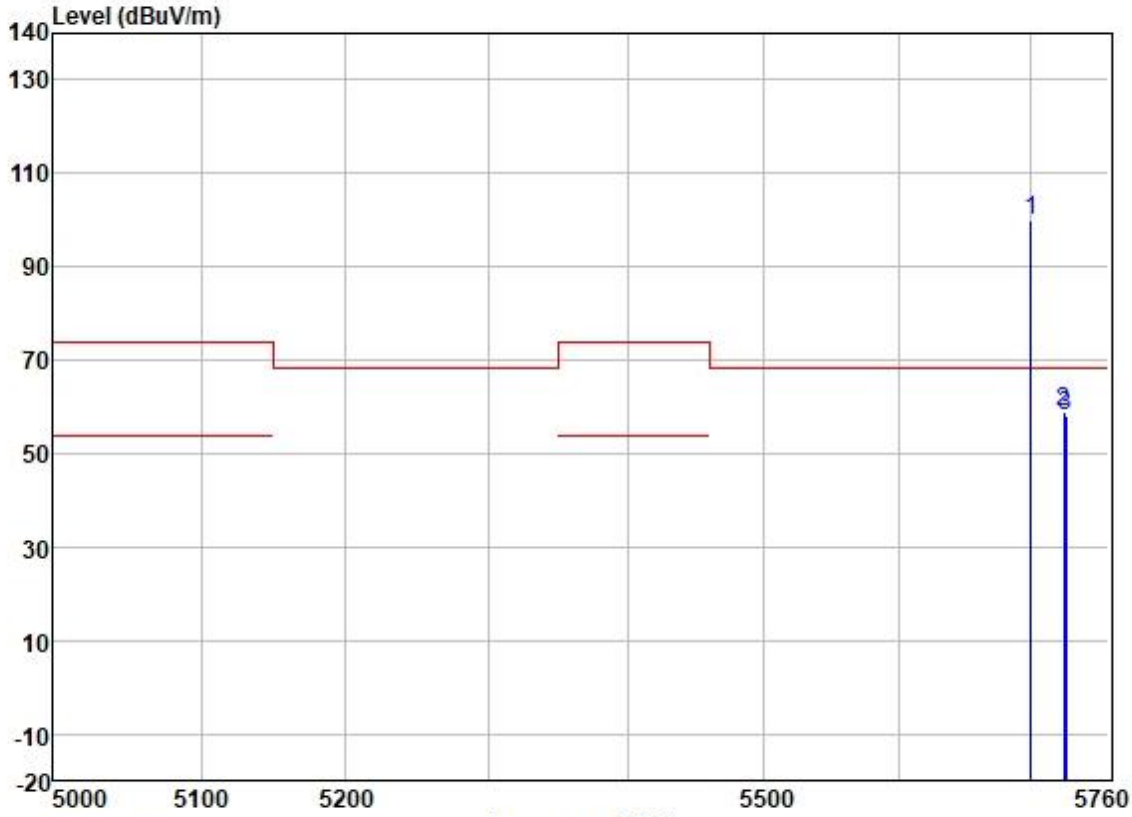
Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5700.000	98.14	32.01	6.40	36.89	99.66	68.20	31.46	HORIZONTAL	Peak
2		5725.000	56.26	32.07	6.25	36.89	57.69	68.20	-10.51	HORIZONTAL	Peak
3		5727.282	57.09	32.07	6.25	36.89	58.52	68.20	-9.68	HORIZONTAL	Peak

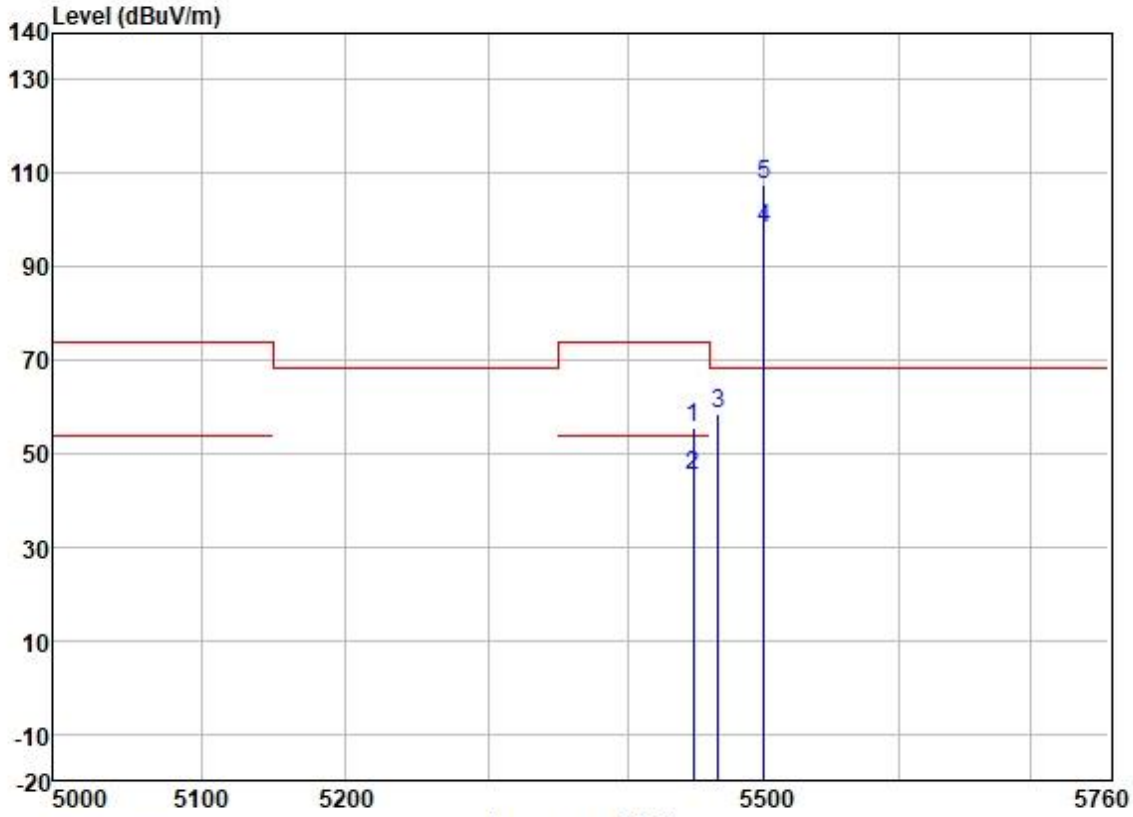
Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5700.000	98.56	32.01	6.40	36.89	100.08	68.20	31.88	VERTICAL	Peak
2		5725.000	57.46	32.07	6.25	36.89	58.89	68.20	-9.31	VERTICAL	Peak
3		5726.982	56.80	32.07	6.25	36.89	58.23	68.20	-9.97	VERTICAL	Peak

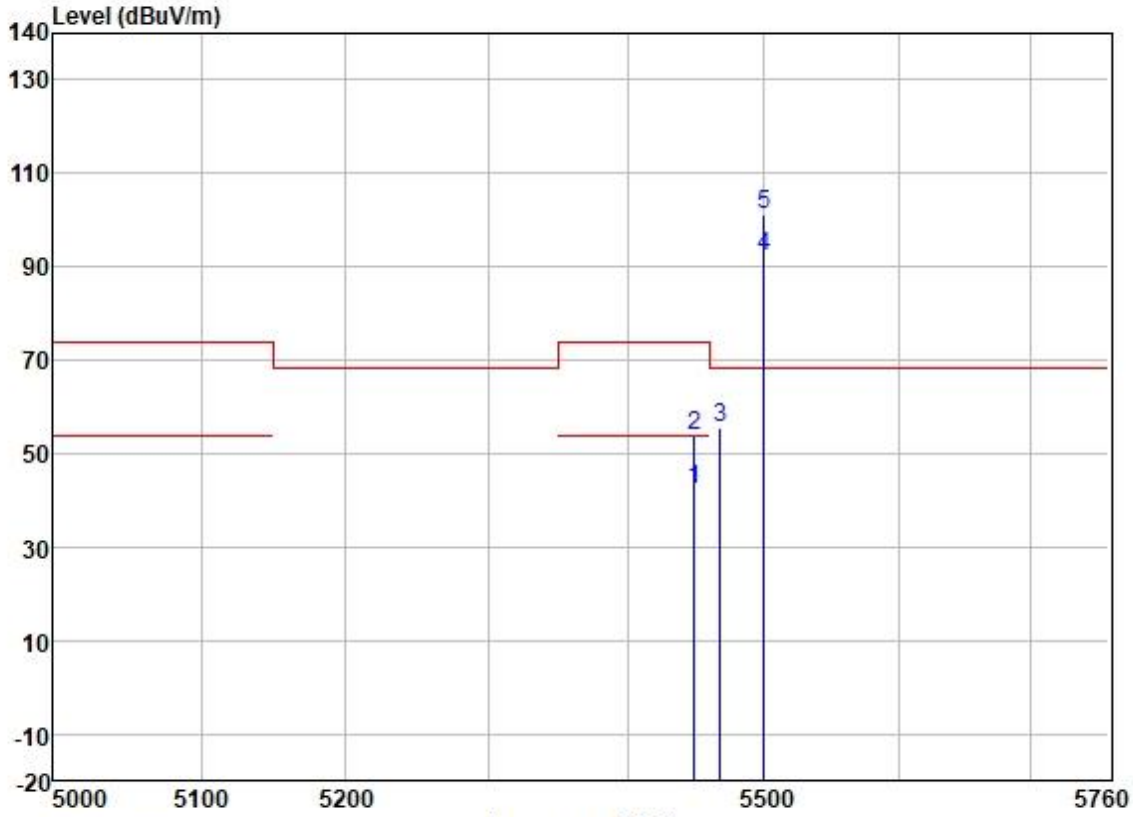
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5447.444	54.54	31.79	6.20	36.88	55.65	74.00	-18.35	HORIZONTAL	Peak
2	5448.043	44.26	31.79	6.26	36.88	45.43	54.00	-8.57	HORIZONTAL	Average
3	5466.034	57.34	31.80	6.31	36.88	58.57	68.20	-9.63	HORIZONTAL	Peak
4	5500.000	96.76	31.80	6.40	36.88	98.08	------	------	HORIZONTAL	Average
5 *	5500.000	106.33	31.80	6.40	36.88	107.65	68.20	39.45	HORIZONTAL	Peak

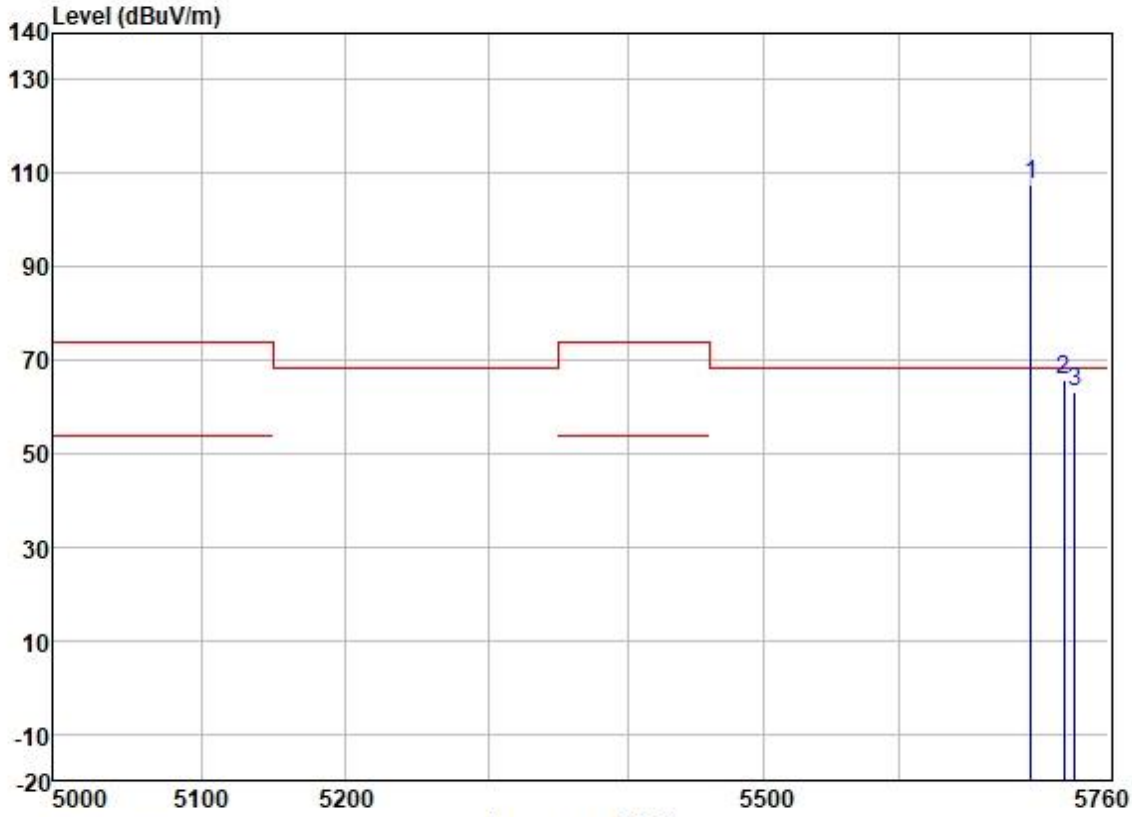
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5448.163	41.12	31.79	6.26	36.88	42.29	54.00	-11.71	VERTICAL	Average
2	5448.163	52.58	31.79	6.26	36.88	53.75	74.00	-20.25	VERTICAL	Peak
3	5467.355	54.30	31.80	6.31	36.88	55.53	68.20	-12.67	VERTICAL	Peak
4	5500.000	90.71	31.80	6.40	36.88	92.03	------	------	VERTICAL	Average
5 *	5500.000	99.80	31.80	6.40	36.88	101.12	68.20	32.92	VERTICAL	Peak

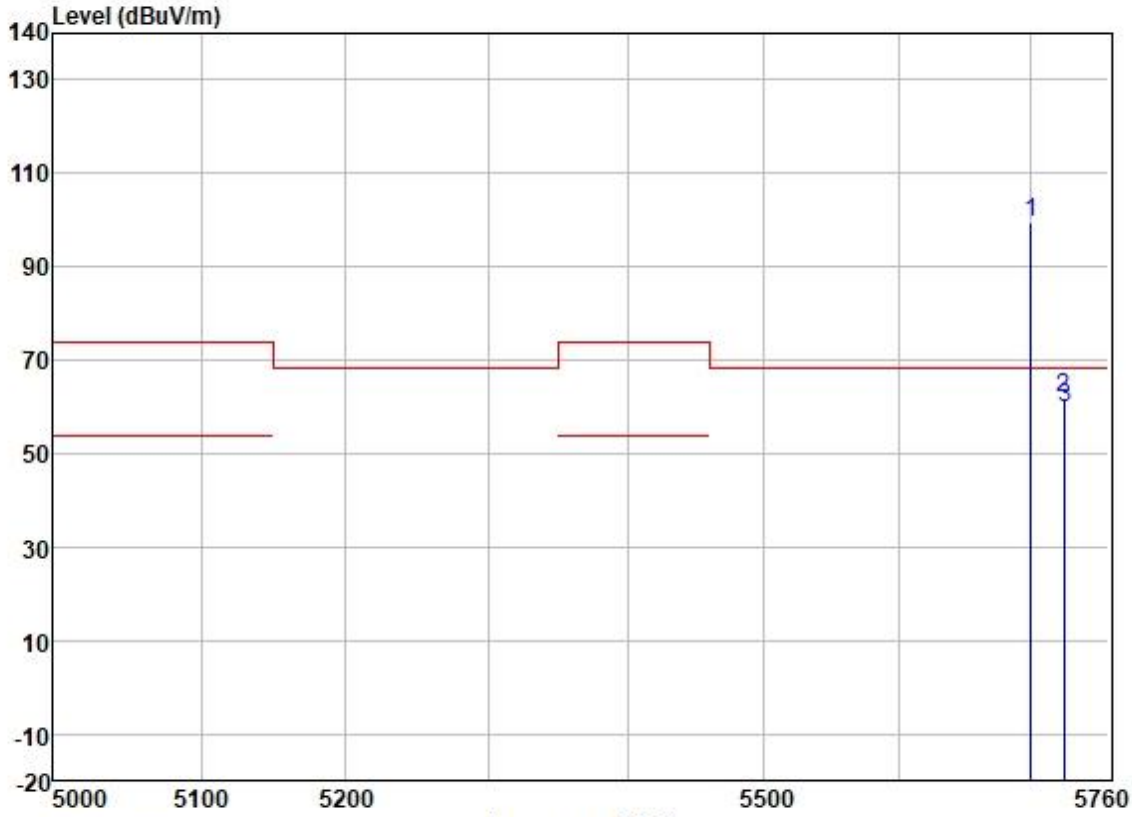
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5700.000	106.12	32.01	6.40	36.89	107.64	68.20	39.44	HORIZONTAL	Peak
2		5725.000	64.23	32.07	6.25	36.89	65.66	68.20	-2.54	HORIZONTAL	Peak
3		5733.483	61.94	32.07	6.25	36.89	63.37	68.20	-4.83	HORIZONTAL	Peak

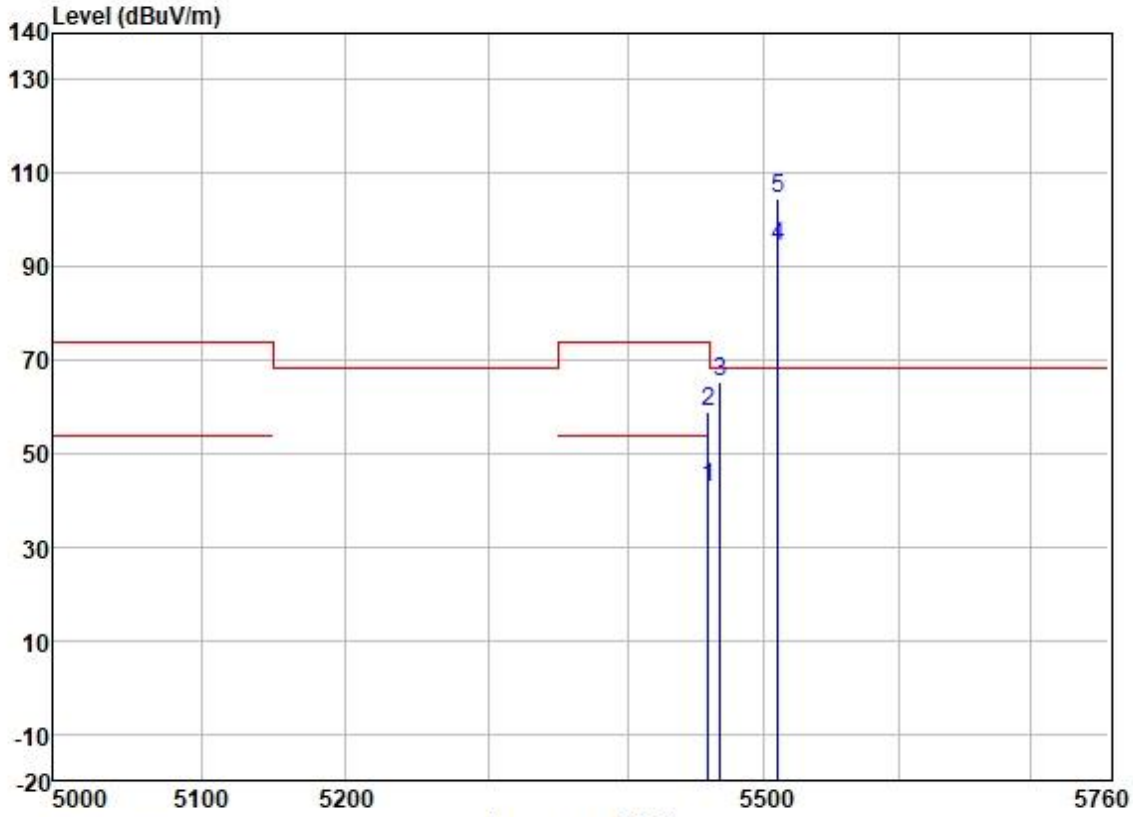
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5700.000	97.98	32.01	6.40	36.89	99.50	68.20	31.30	VERTICAL	Peak
2		5725.000	60.64	32.07	6.25	36.89	62.07	68.20	-6.13	VERTICAL	Peak
3		5725.684	58.52	32.07	6.25	36.89	59.95	68.20	-8.25	VERTICAL	Peak

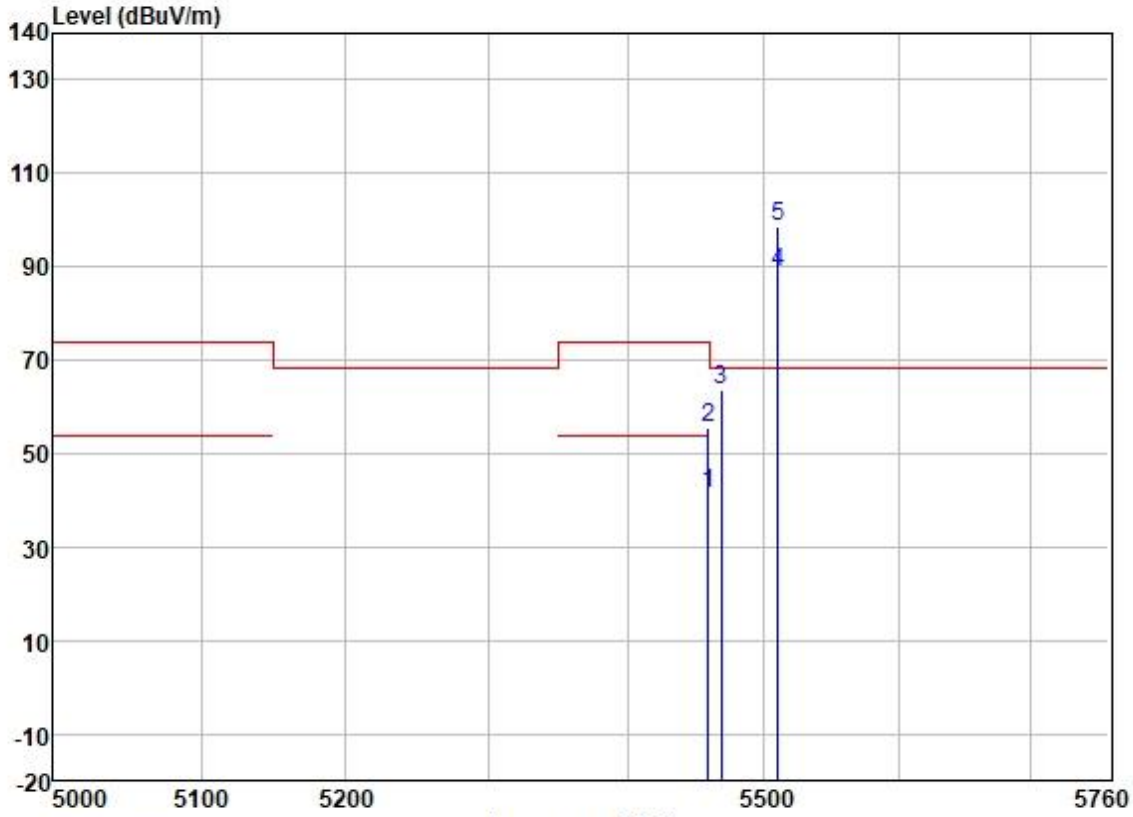
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5458.923	41.40	31.79	6.26	36.88	42.57	54.00	-11.43	HORIZONTAL	Average
2	5458.923	57.58	31.79	6.26	36.88	58.75	74.00	-15.25	HORIZONTAL	Peak
3	5467.592	64.22	31.80	6.31	36.88	65.45	68.20	-2.75	HORIZONTAL	Peak
4	5510.000	93.20	31.80	6.40	36.88	94.52	------	------	HORIZONTAL	Average
5 *	5510.000	103.17	31.80	6.40	36.88	104.49	68.20	36.29	HORIZONTAL	Peak

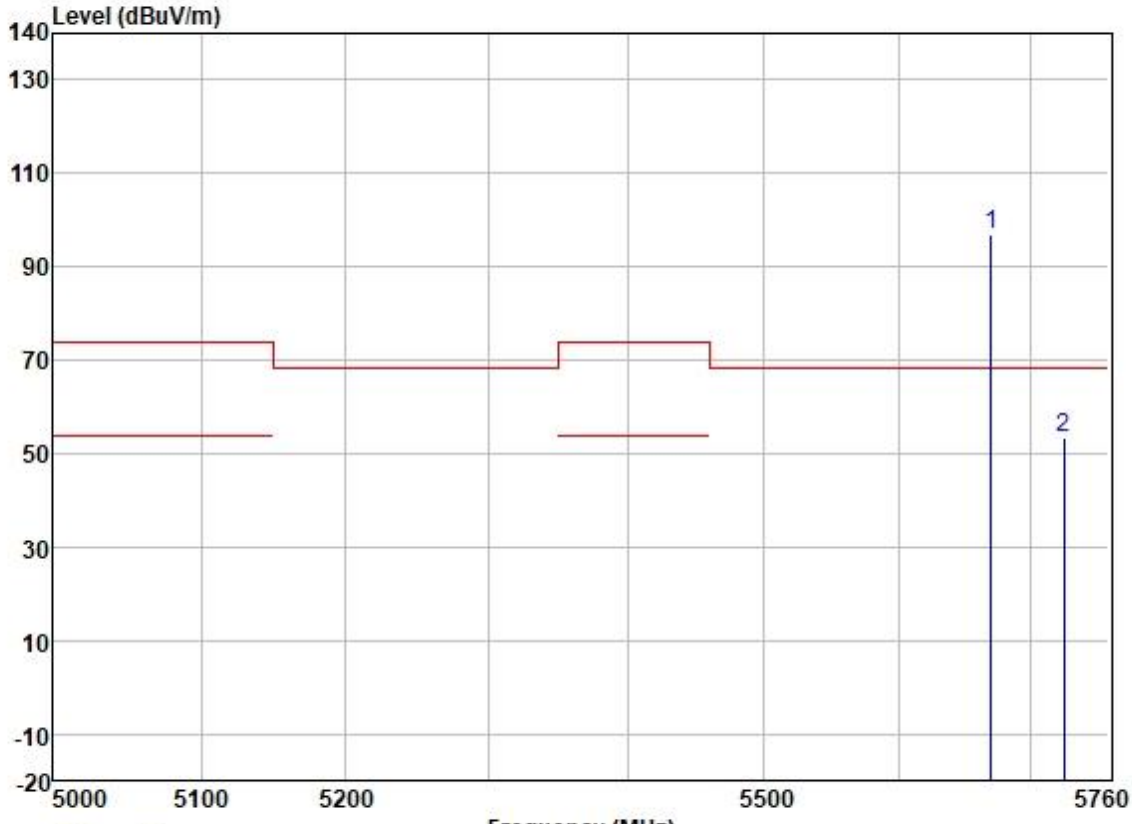
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5458.783	40.08	31.79	6.26	36.88	41.25	54.00	-12.75	VERTICAL	Average
2	5458.783	54.34	31.79	6.26	36.88	55.51	74.00	-18.49	VERTICAL	Peak
3	5467.873	62.38	31.80	6.31	36.88	63.61	68.20	-4.59	VERTICAL	Peak
4	5510.000	87.27	31.80	6.40	36.88	88.59	------	------	VERTICAL	Average
5 *	5510.000	97.17	31.80	6.40	36.88	98.49	68.20	30.29	VERTICAL	Peak

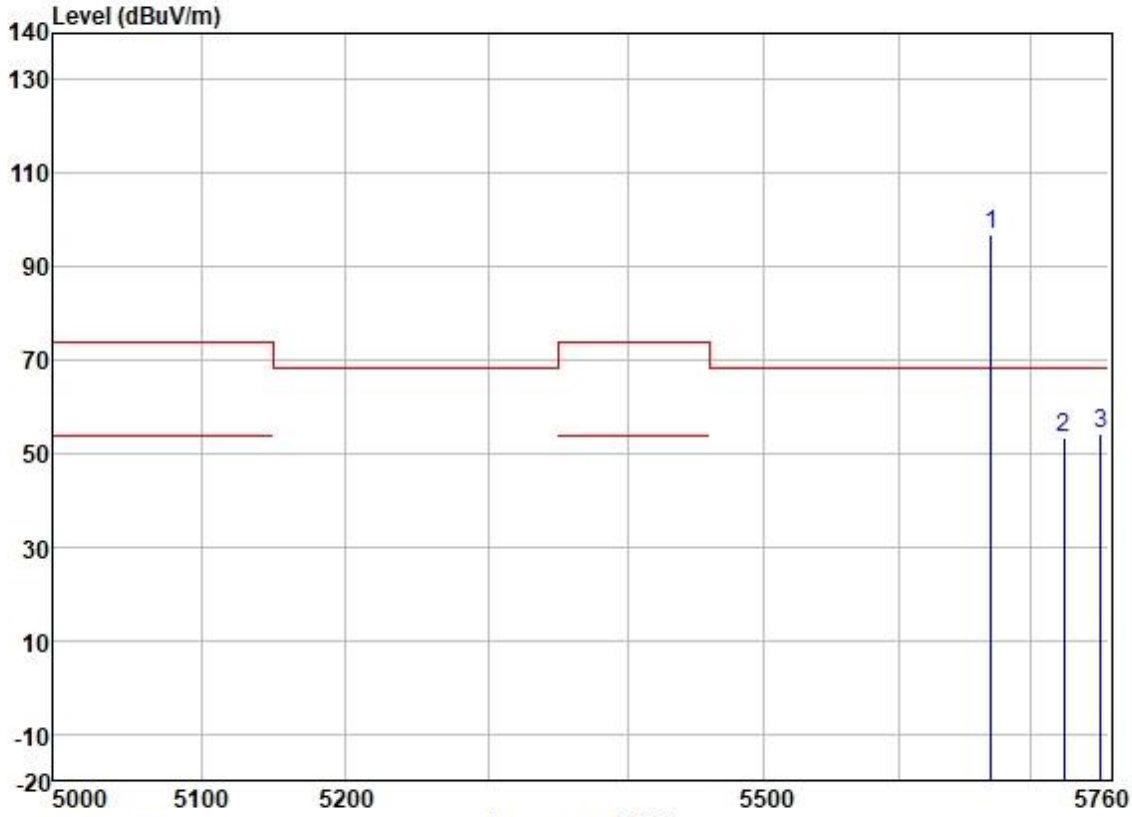
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5670.000	95.33	31.97	6.37	36.89	96.78	68.20	28.58	HORIZONTAL	Peak
2	5725.000	51.86	32.07	6.25	36.89	53.29	68.20	-14.91	HORIZONTAL	Peak

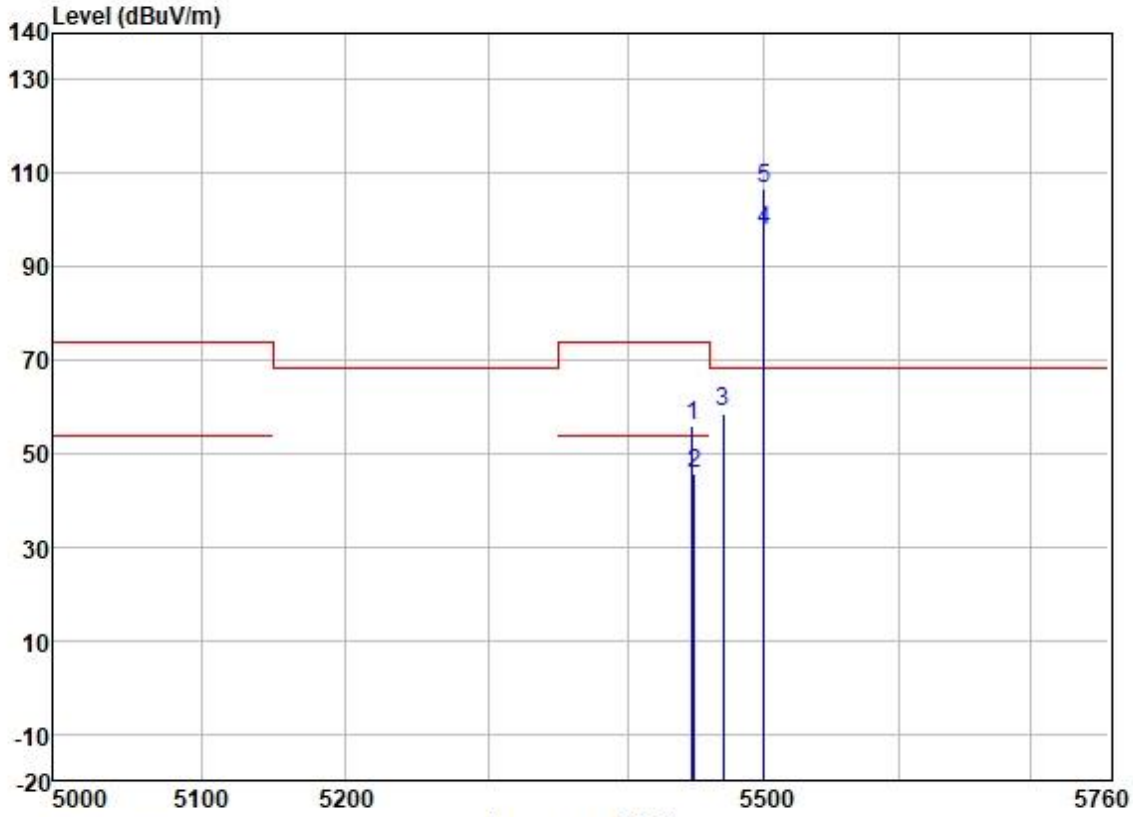
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5670.000	95.61	31.97	6.37	36.89	97.06	68.20	28.86	VERTICAL	Peak
2	5725.000	52.12	32.07	6.25	36.89	53.55	68.20	-14.65	VERTICAL	Peak
3	5753.840	52.89	32.10	6.20	36.89	54.30	68.20	-13.90	VERTICAL	Peak

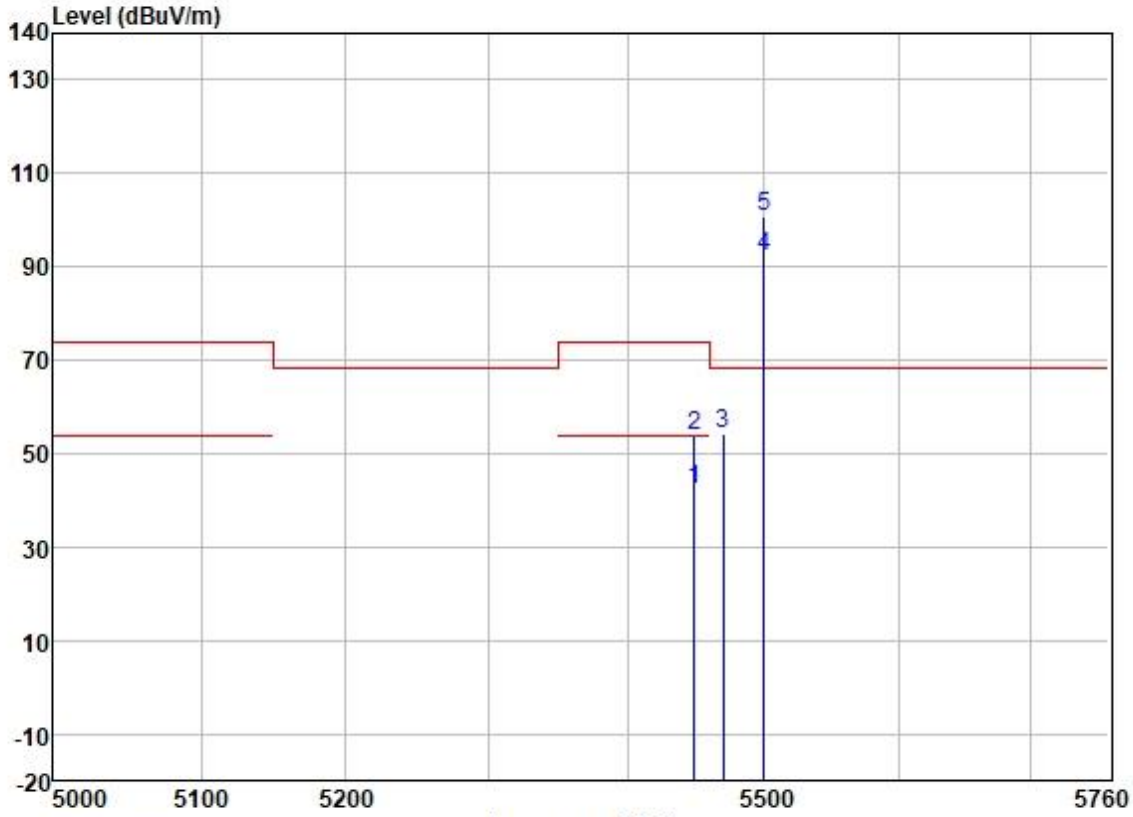
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5447.325	54.73	31.79	6.20	36.88	55.84	74.00	-18.16	HORIZONTAL	Peak
2	5448.282	44.33	31.79	6.26	36.88	45.50	54.00	-8.50	HORIZONTAL	Average
3	5469.880	57.49	31.80	6.31	36.88	58.72	68.20	-9.48	HORIZONTAL	Peak
4	5500.000	96.41	31.80	6.40	36.88	97.73	------	------	HORIZONTAL	Average
5 *	5500.000	105.30	31.80	6.40	36.88	106.62	68.20	38.42	HORIZONTAL	Peak

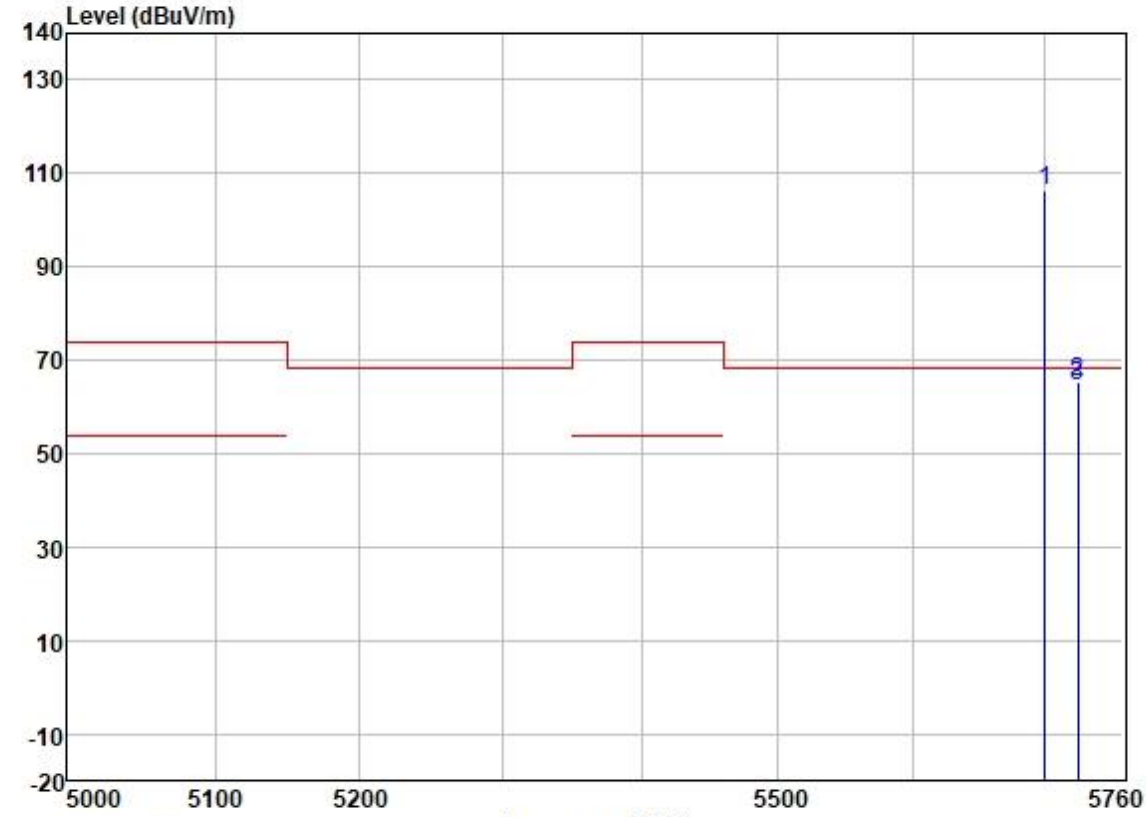
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5448.282	41.18	31.79	6.26	36.88	42.35	54.00	-11.65	VERTICAL	Average
2	5448.282	52.52	31.79	6.26	36.88	53.69	74.00	-20.31	VERTICAL	Peak
3	5469.639	53.03	31.80	6.31	36.88	54.26	68.20	-13.94	VERTICAL	Peak
4	5500.000	90.90	31.80	6.40	36.88	92.22	------	------	VERTICAL	Average
5 *	5500.000	99.39	31.80	6.40	36.88	100.71	68.20	32.51	VERTICAL	Peak

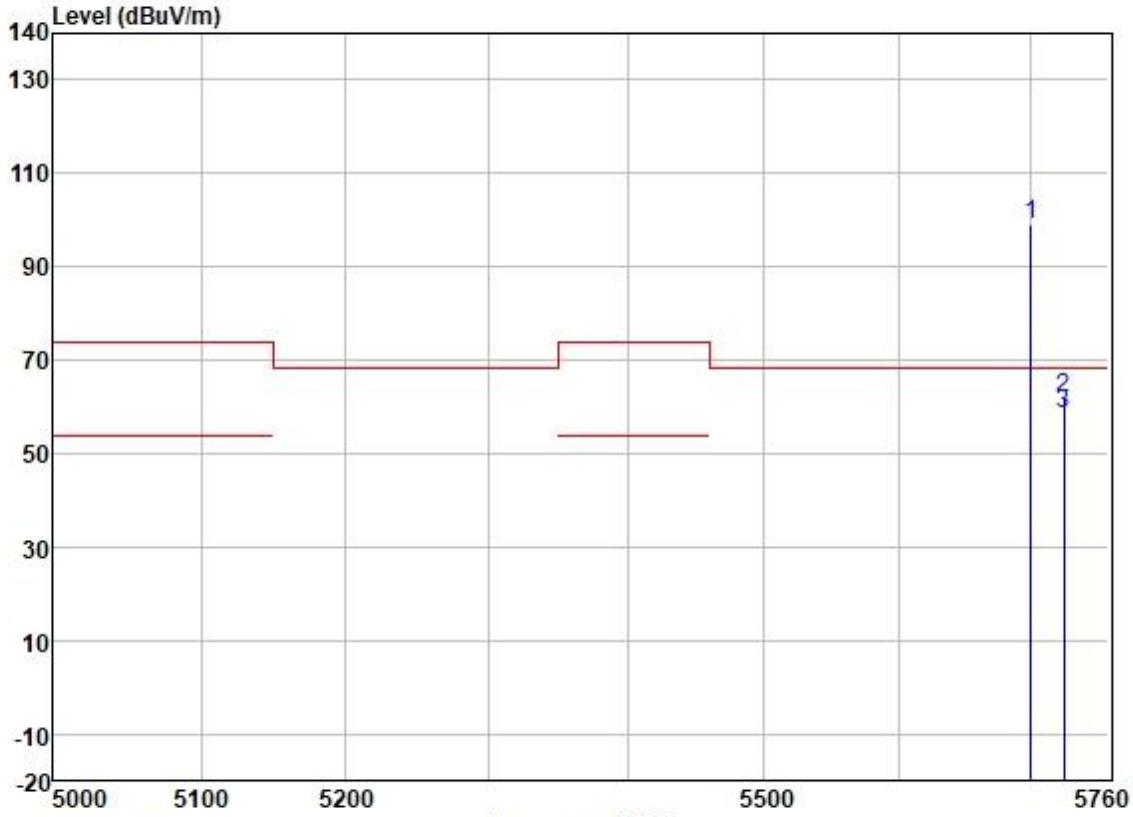
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5700.000	104.74	32.01	6.40	36.89	106.26	68.20	38.06	HORIZONTAL	Peak
2		5725.000	63.82	32.07	6.25	36.89	65.25	68.20	-2.95	HORIZONTAL	Peak
3		5725.483	62.87	32.07	6.25	36.89	64.30	68.20	-3.90	HORIZONTAL	Peak

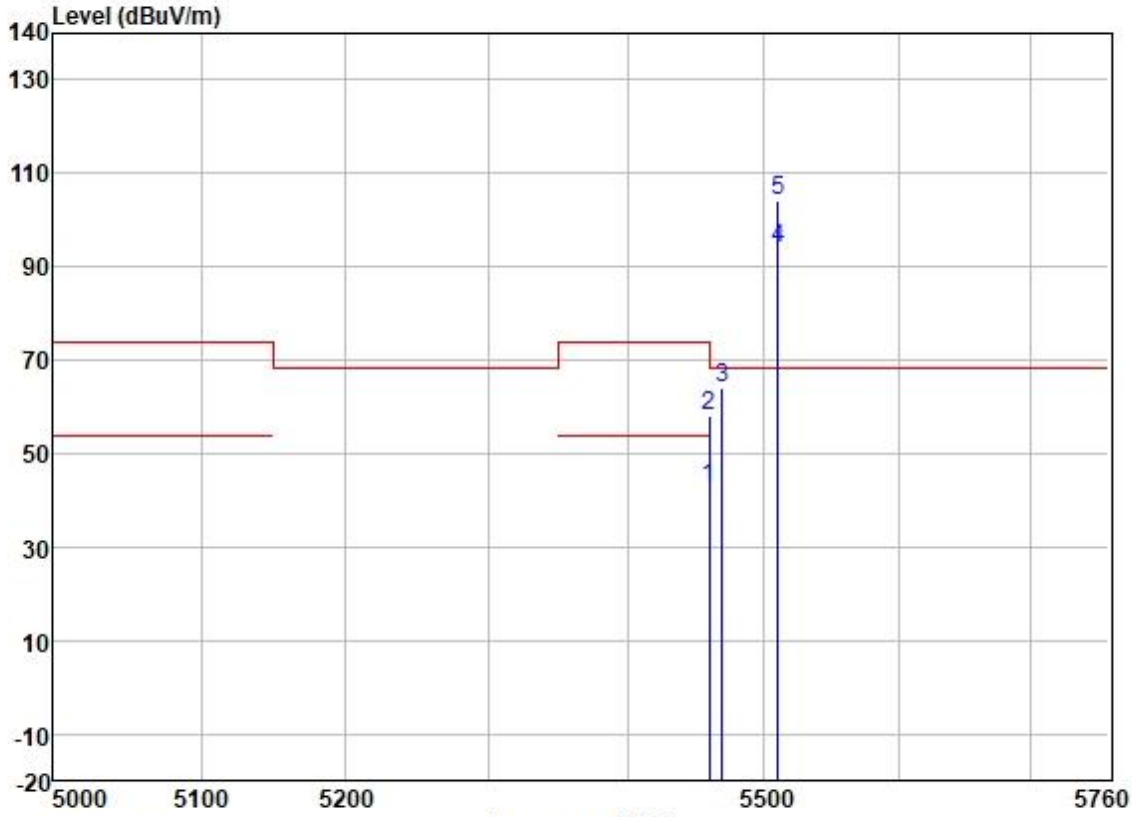
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5700.000	97.39	32.01	6.40	36.89	98.91	68.20	30.71	VERTICAL	Peak
2		5725.000	60.31	32.07	6.25	36.89	61.74	68.20	-6.46	VERTICAL	Peak
3		5725.483	56.90	32.07	6.25	36.89	58.33	68.20	-9.87	VERTICAL	Peak

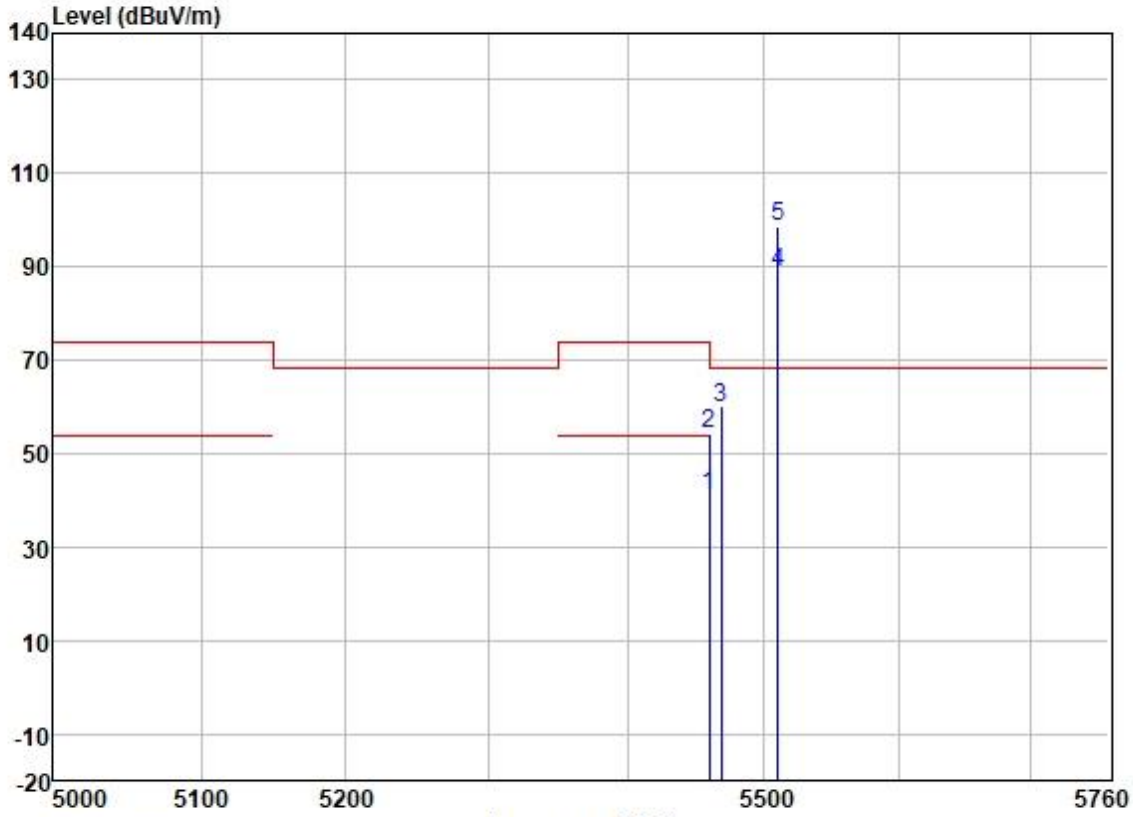
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5459.761	41.43	31.79	6.26	36.88	42.60	54.00	-11.40	HORIZONTAL	Average
2	5459.761	56.93	31.79	6.26	36.88	58.10	74.00	-15.90	HORIZONTAL	Peak
3	5468.572	63.00	31.80	6.31	36.88	64.23	68.20	-3.97	HORIZONTAL	Peak
4	5510.000	92.78	31.80	6.40	36.88	94.10	------	------	HORIZONTAL	Average
5 *	5510.000	102.95	31.80	6.40	36.88	104.27	68.20	36.07	HORIZONTAL	Peak

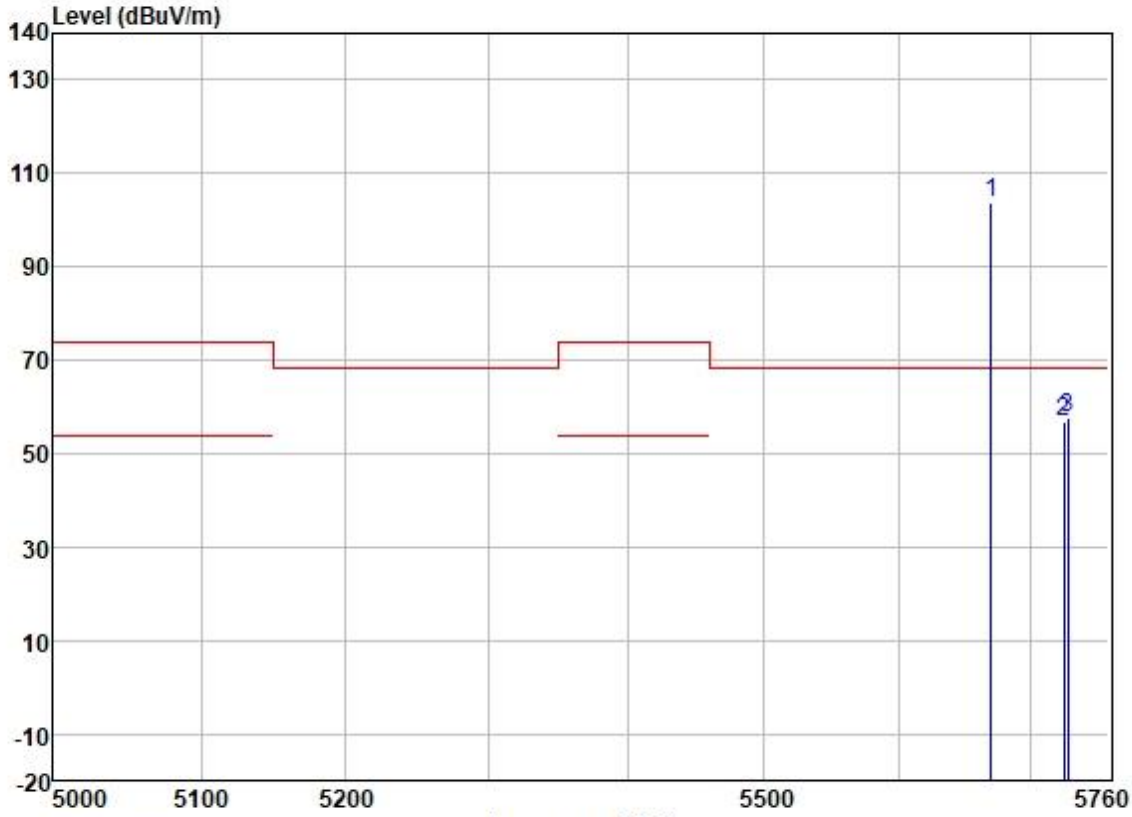
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5459.622	39.96	31.79	6.26	36.88	41.13	54.00	-12.87	VERTICAL	Average
2	5459.622	53.07	31.79	6.26	36.88	54.24	74.00	-19.76	VERTICAL	Peak
3	5468.152	58.77	31.80	6.31	36.88	60.00	68.20	-8.20	VERTICAL	Peak
4	5510.000	87.33	31.80	6.40	36.88	88.65	------	------	VERTICAL	Average
5 *	5510.000	97.10	31.80	6.40	36.88	98.42	68.20	30.22	VERTICAL	Peak

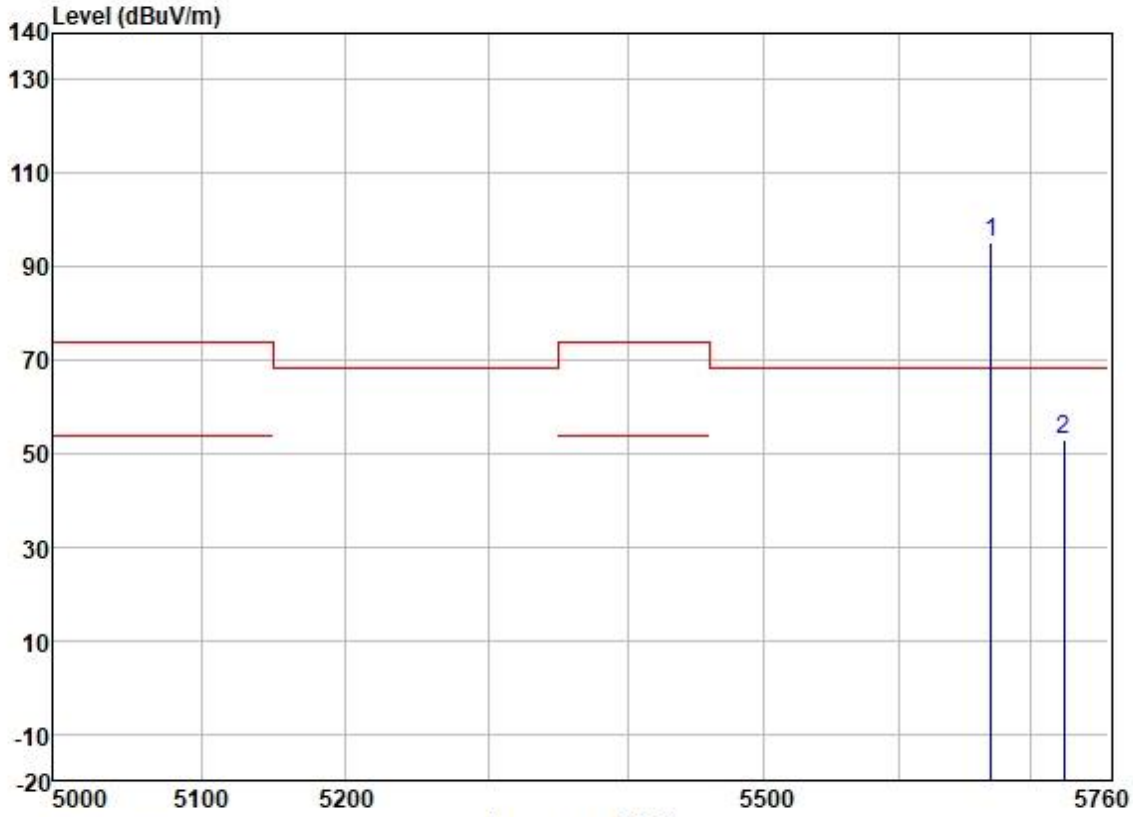
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5670.000	102.12	31.97	6.37	36.89	103.57	68.20	35.37	HORIZONTAL	Peak
2		5725.000	55.30	32.07	6.25	36.89	56.73	68.20	-11.47	HORIZONTAL	Peak
3		5727.940	56.28	32.07	6.25	36.89	57.71	68.20	-10.49	HORIZONTAL	Peak

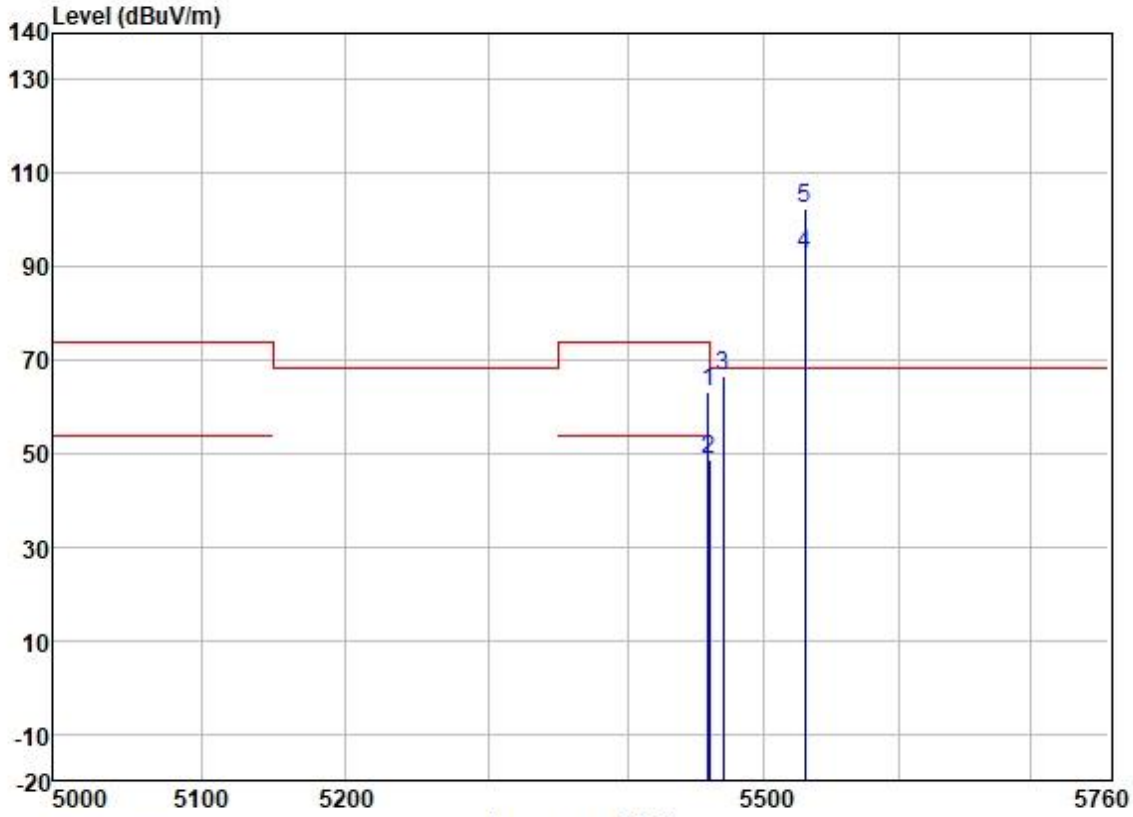
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5670.000	93.84	31.97	6.37	36.89	95.29	68.20	27.09	VERTICAL	Peak
2	5725.000	51.70	32.07	6.25	36.89	53.13	68.20	-15.07	VERTICAL	Peak

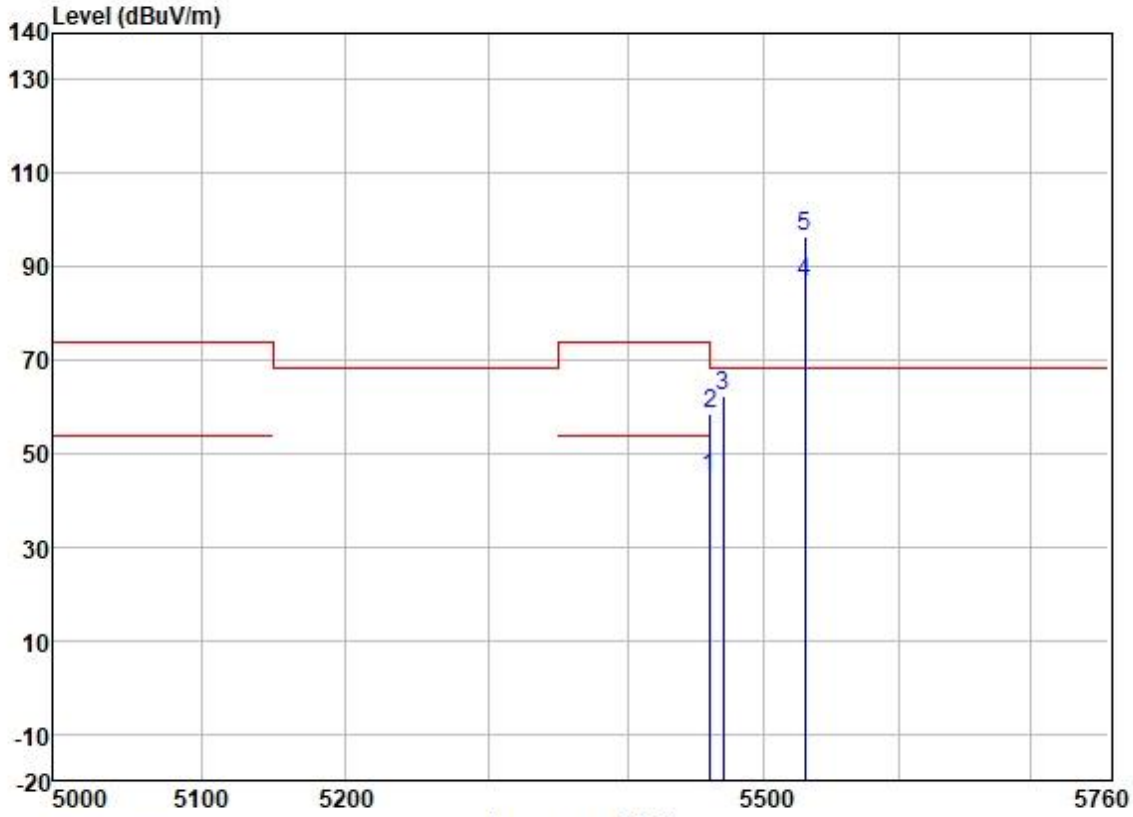
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5458.391	62.14	31.79	6.26	36.88	63.31	74.00	-10.69	HORIZONTAL	Peak
2	5459.644	47.35	31.79	6.26	36.88	48.52	54.00	-5.48	HORIZONTAL	Average
3	5469.857	65.19	31.80	6.31	36.88	66.42	68.20	-1.78	HORIZONTAL	Peak
4	5530.000	91.37	31.83	6.37	36.89	92.68	------	------	HORIZONTAL	Average
5 *	5530.000	100.97	31.83	6.37	36.89	102.28	68.20	34.08	HORIZONTAL	Peak

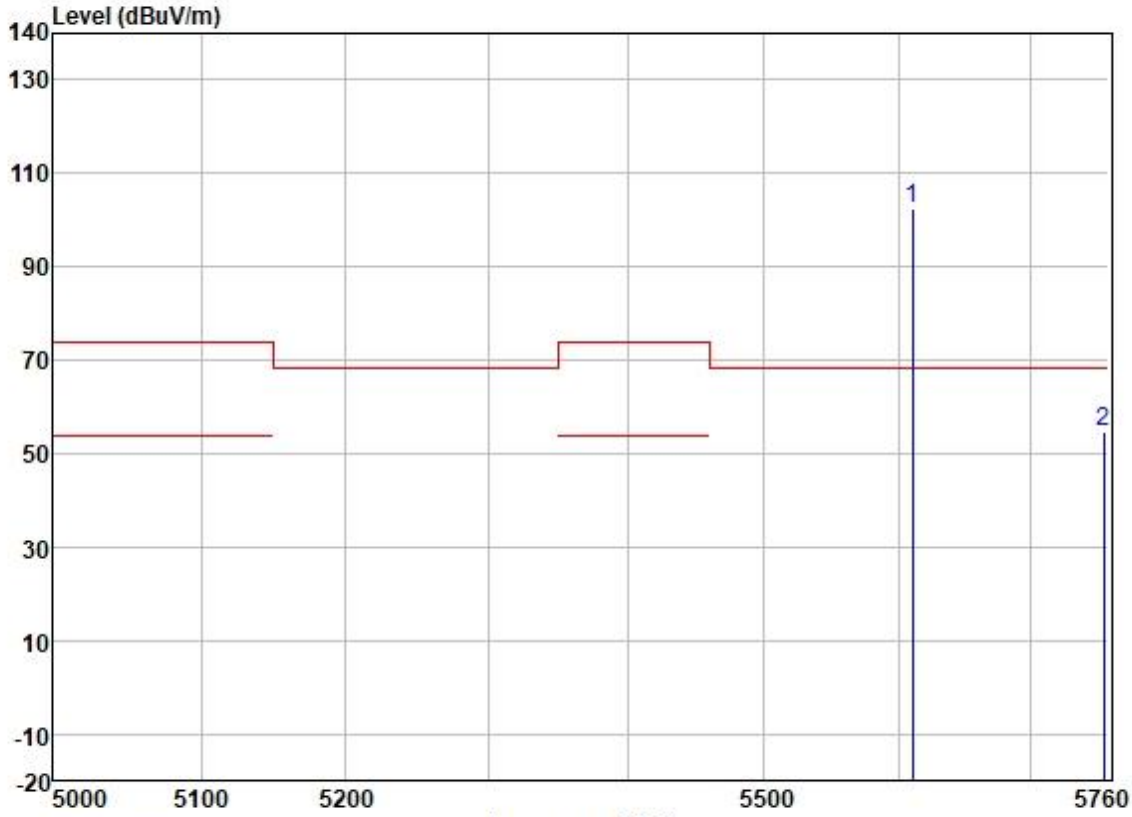
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5459.644	43.55	31.79	6.26	36.88	44.72	54.00	-9.28	VERTICAL	Average
2	5459.823	57.17	31.79	6.26	36.88	58.34	74.00	-15.66	VERTICAL	Peak
3	5469.499	60.94	31.80	6.31	36.88	62.17	68.20	-6.03	VERTICAL	Peak
4	5530.000	85.42	31.83	6.37	36.89	86.73	------	------	VERTICAL	Average
5 *	5530.000	95.21	31.83	6.37	36.89	96.52	68.20	28.32	VERTICAL	Peak

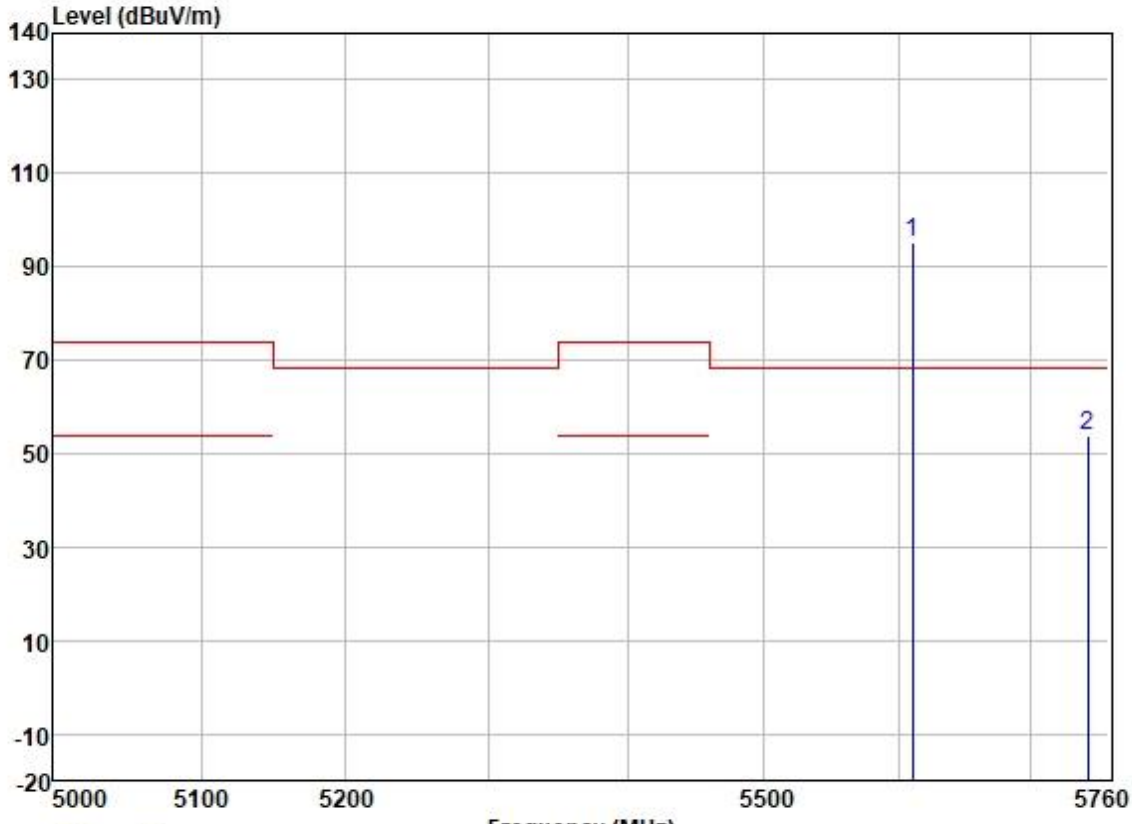
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5610.000	101.22	31.91	6.32	36.89	102.56	68.20	34.36	HORIZONTAL	Peak
2	5755.930	53.28	32.13	6.15	36.89	54.67	68.20	-13.53	HORIZONTAL	Peak

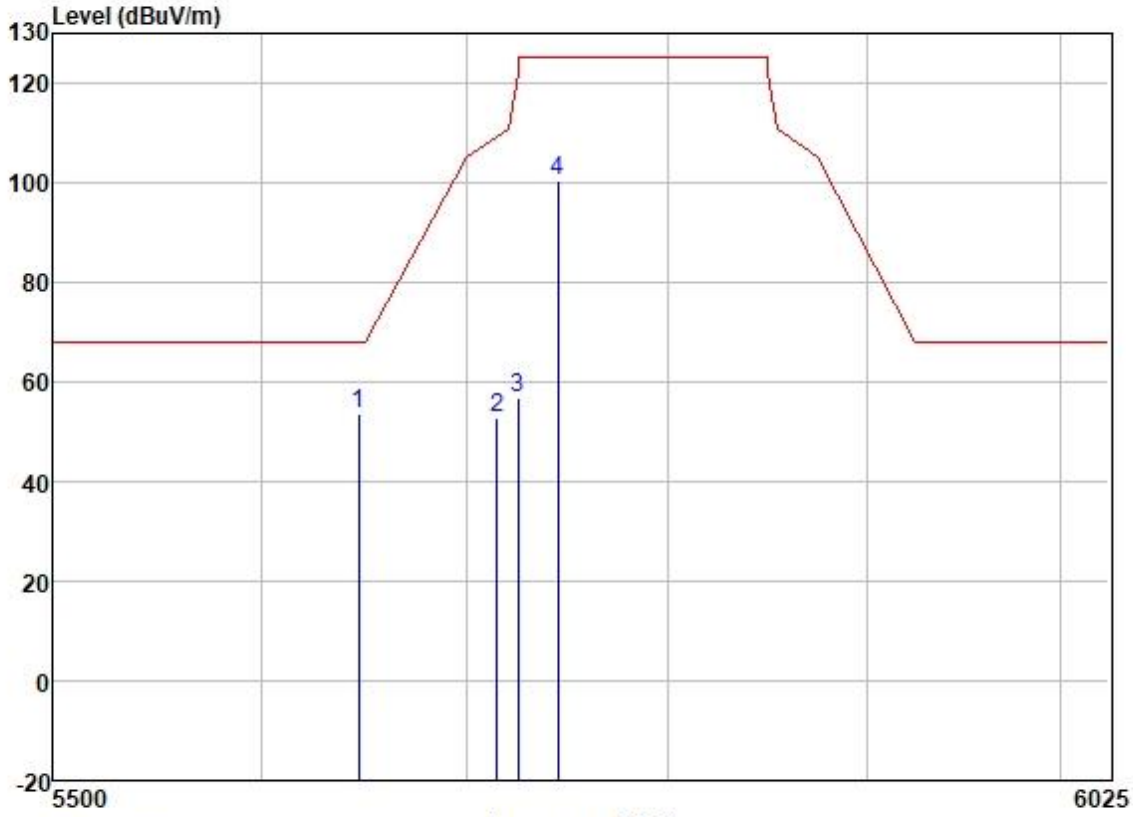
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5610.000	93.92	31.91	6.32	36.89	95.26	68.20	27.06	VERTICAL	Peak
2	5743.357	52.58	32.10	6.20	36.89	53.99	68.20	-14.21	VERTICAL	Peak

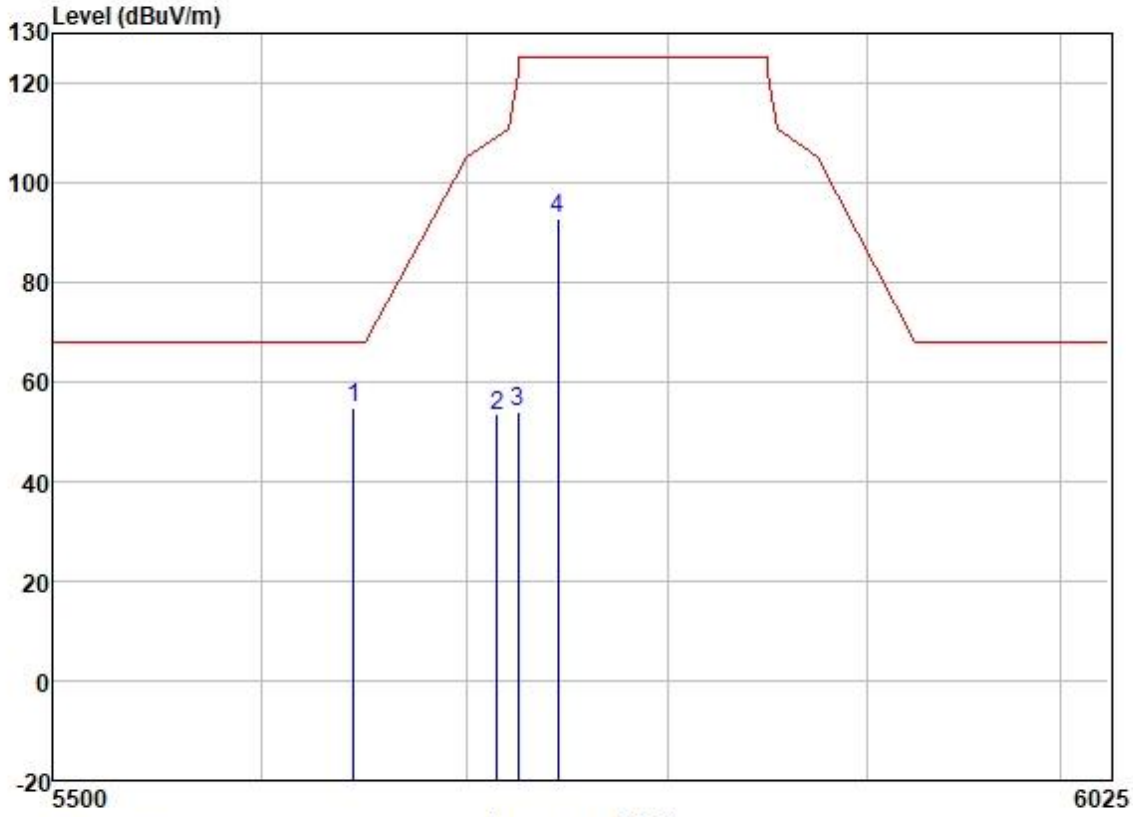
Test Mode: 20; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5646.780	52.37	31.95	6.35	36.89	53.78	68.20	-14.42	HORIZONTAL	Peak
2	5715.000	51.20	32.04	6.33	36.89	52.68	109.40	-56.72	HORIZONTAL	Peak
3	5725.000	55.24	32.07	6.25	36.89	56.67	122.20	-65.53	HORIZONTAL	Peak
4	5745.000	99.11	32.10	6.20	36.89	100.52	125.20	-24.68	HORIZONTAL	Peak

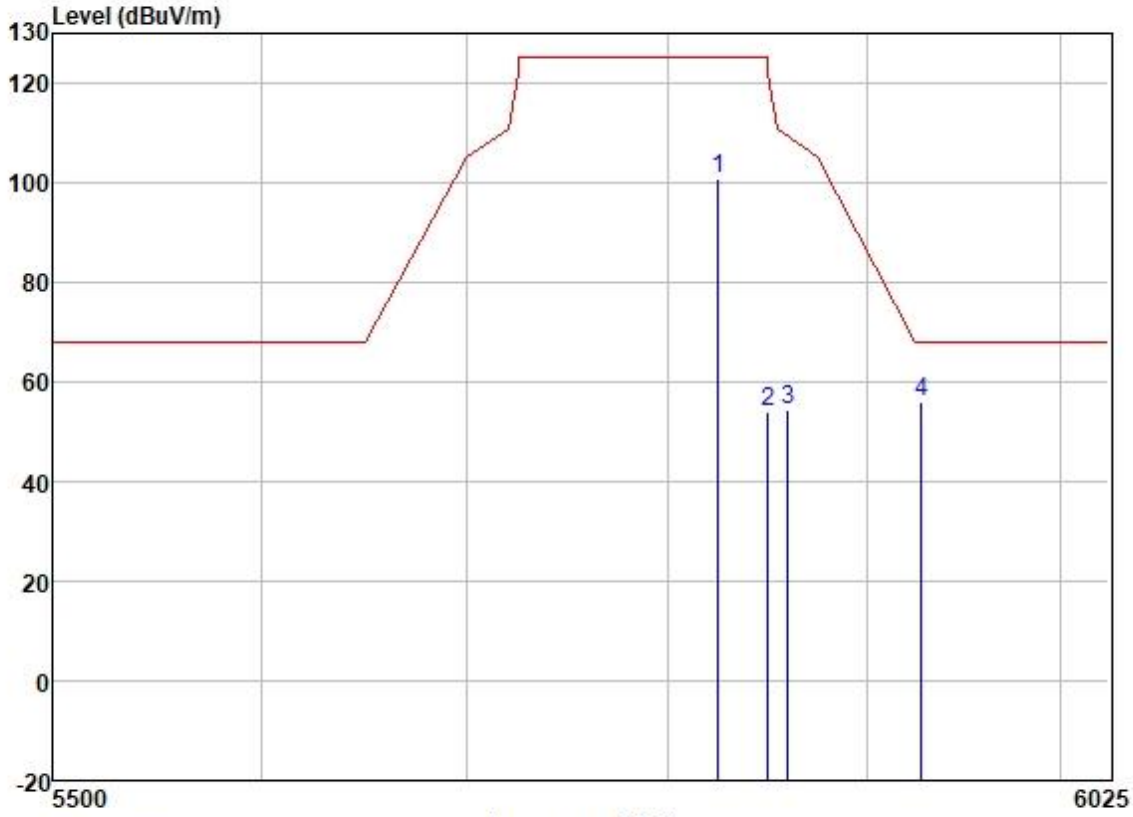
Test Mode: 20; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5644.704	53.38	31.95	6.35	36.89	54.79	68.20	-13.41	VERTICAL	Peak
2	5715.000	51.92	32.04	6.33	36.89	53.40	109.40	-56.00	VERTICAL	Peak
3	5725.000	52.61	32.07	6.25	36.89	54.04	122.20	-68.16	VERTICAL	Peak
4	5745.000	91.55	32.10	6.20	36.89	92.96	125.20	-32.24	VERTICAL	Peak

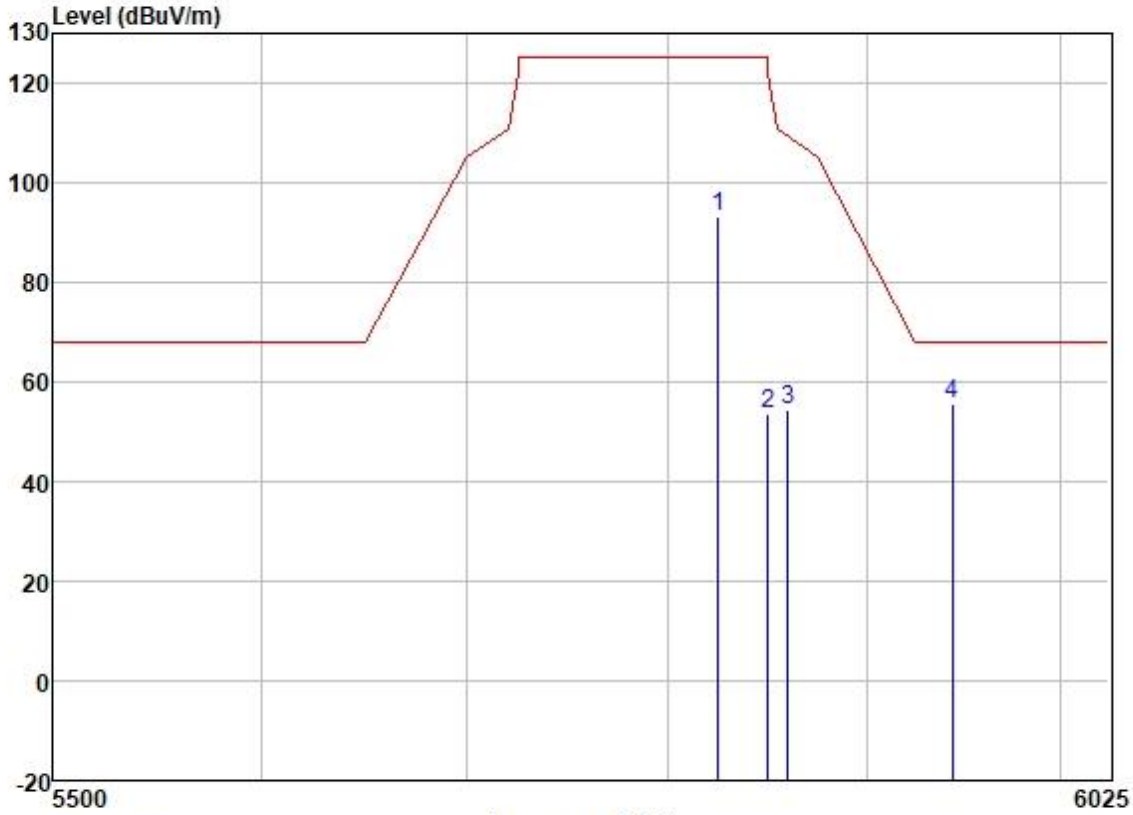
Test Mode: 20; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	99.47	32.23	6.04	36.90	100.84	125.20	-24.36	HORIZONTAL	Peak
2	5850.000	52.63	32.25	6.00	36.90	53.98	122.20	-68.22	HORIZONTAL	Peak
3	5860.000	52.95	32.27	5.96	36.90	54.28	109.40	-55.12	HORIZONTAL	Peak
4	5927.905	54.40	32.34	6.00	36.90	55.84	68.20	-12.36	HORIZONTAL	Peak

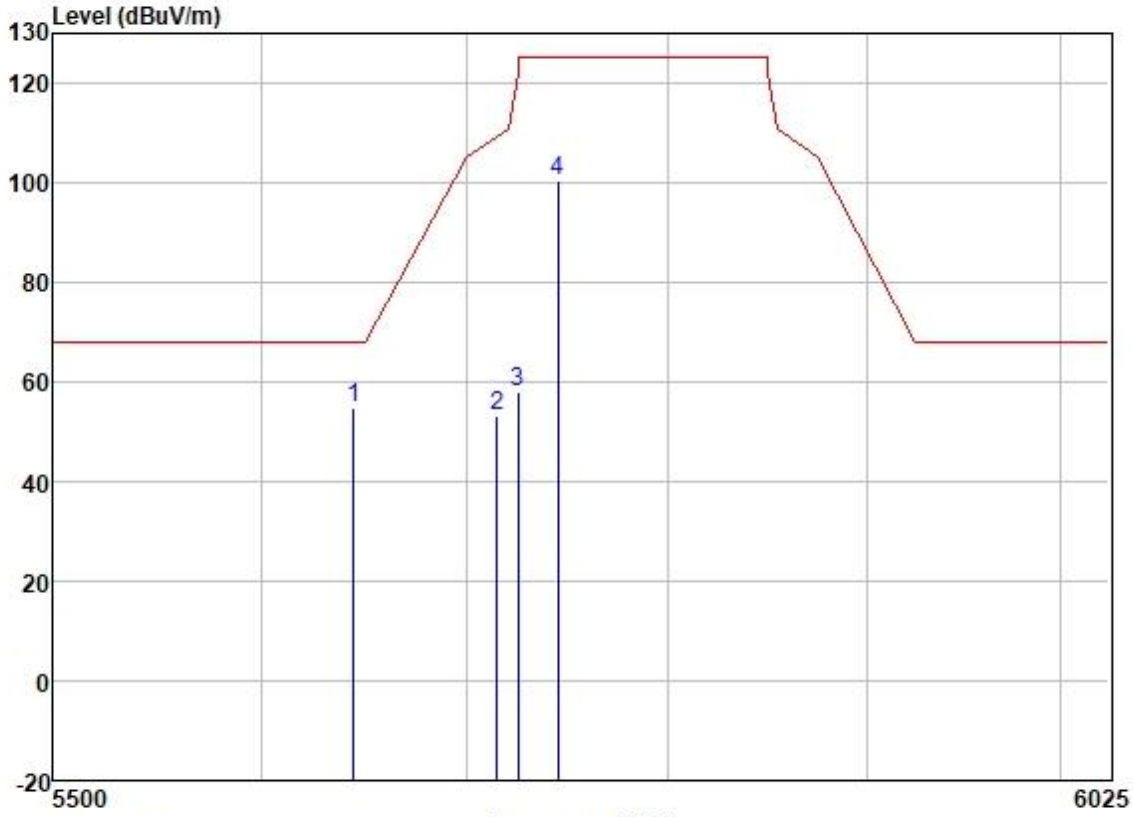
Test Mode: 20; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	91.99	32.23	6.04	36.90	93.36	125.20	-31.84	VERTICAL	Peak
2	5850.000	52.26	32.25	6.00	36.90	53.61	122.20	-68.59	VERTICAL	Peak
3	5860.000	53.00	32.27	5.96	36.90	54.33	109.40	-55.07	VERTICAL	Peak
4	5943.744	53.96	32.36	6.05	36.90	55.47	68.20	-12.73	VERTICAL	Peak

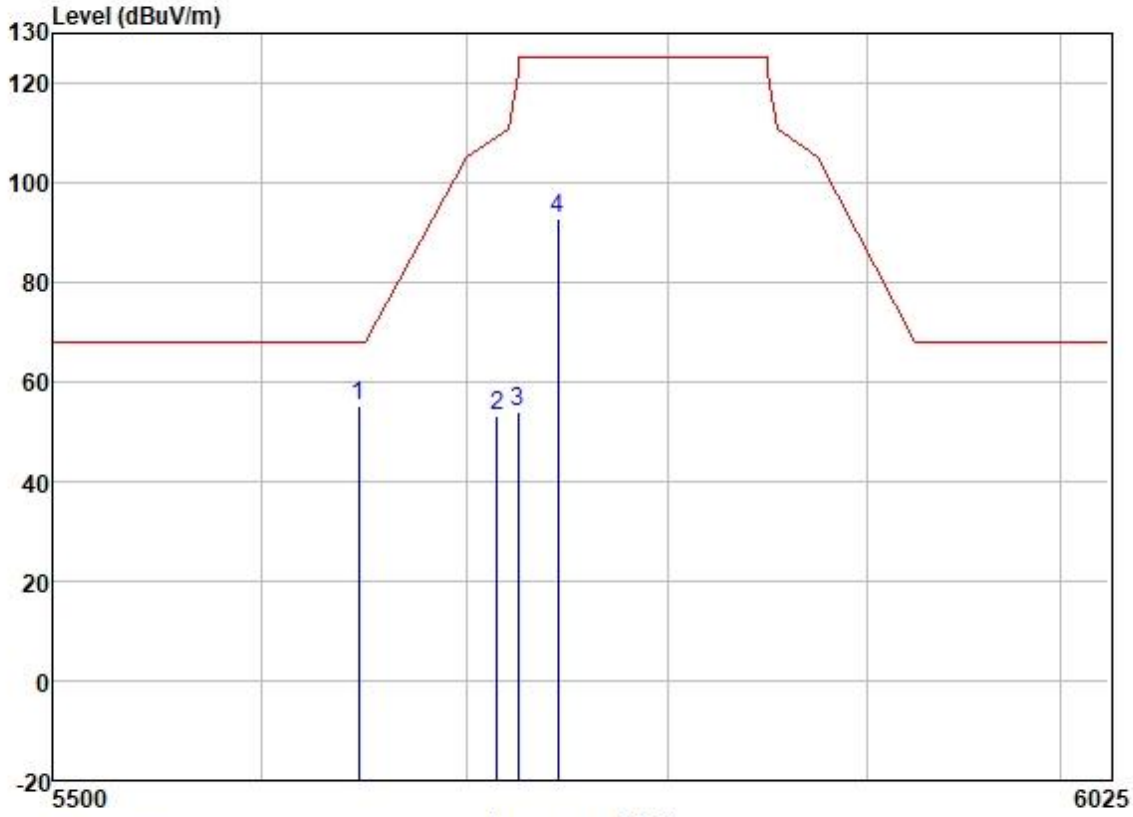
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5644.704	53.34	31.95	6.35	36.89	54.75	68.20	-13.45	HORIZONTAL	Peak
2	5715.000	51.70	32.04	6.33	36.89	53.18	109.40	-56.22	HORIZONTAL	Peak
3	5725.000	56.58	32.07	6.25	36.89	58.01	122.20	-64.19	HORIZONTAL	Peak
4	5745.000	98.92	32.10	6.20	36.89	100.33	125.20	-24.87	HORIZONTAL	Peak

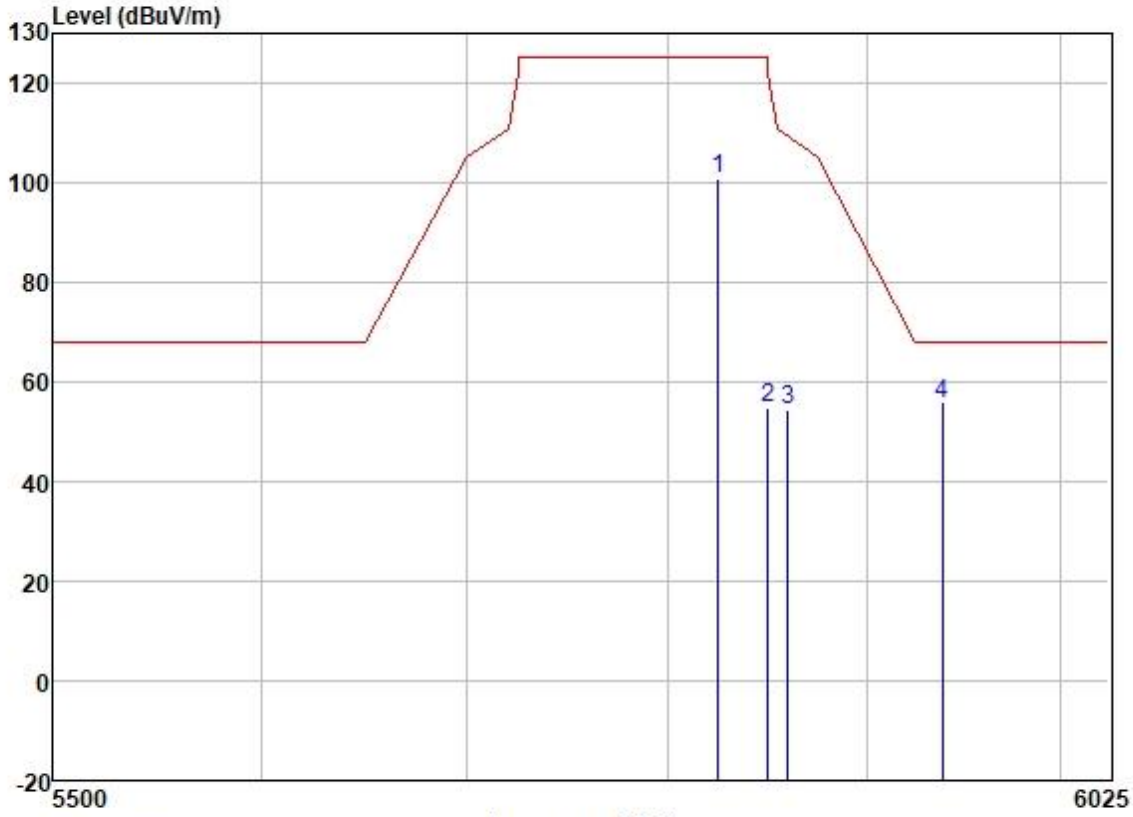
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5647.057	53.64	31.95	6.35	36.89	55.05	68.20	-13.15	VERTICAL	Peak
2	5715.000	51.66	32.04	6.33	36.89	53.14	109.40	-56.26	VERTICAL	Peak
3	5725.000	52.40	32.07	6.25	36.89	53.83	122.20	-68.37	VERTICAL	Peak
4	5745.000	91.52	32.10	6.20	36.89	92.93	125.20	-32.27	VERTICAL	Peak

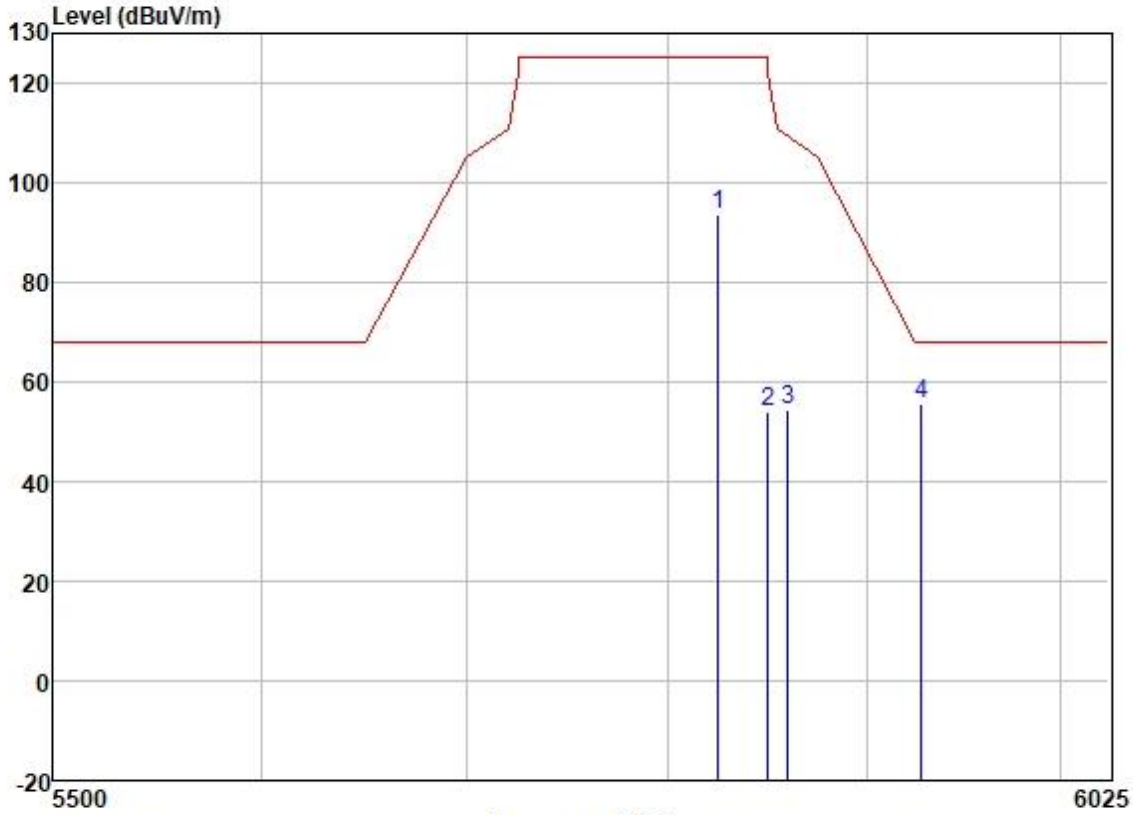
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	99.40	32.23	6.04	36.90	100.77	125.20	-24.43	HORIZONTAL	Peak
2	5850.000	53.45	32.25	6.00	36.90	54.80	122.20	-67.40	HORIZONTAL	Peak
3	5860.000	53.08	32.27	5.96	36.90	54.41	109.40	-54.99	HORIZONTAL	Peak
4	5938.878	54.36	32.34	6.00	36.90	55.80	68.20	-12.40	HORIZONTAL	Peak

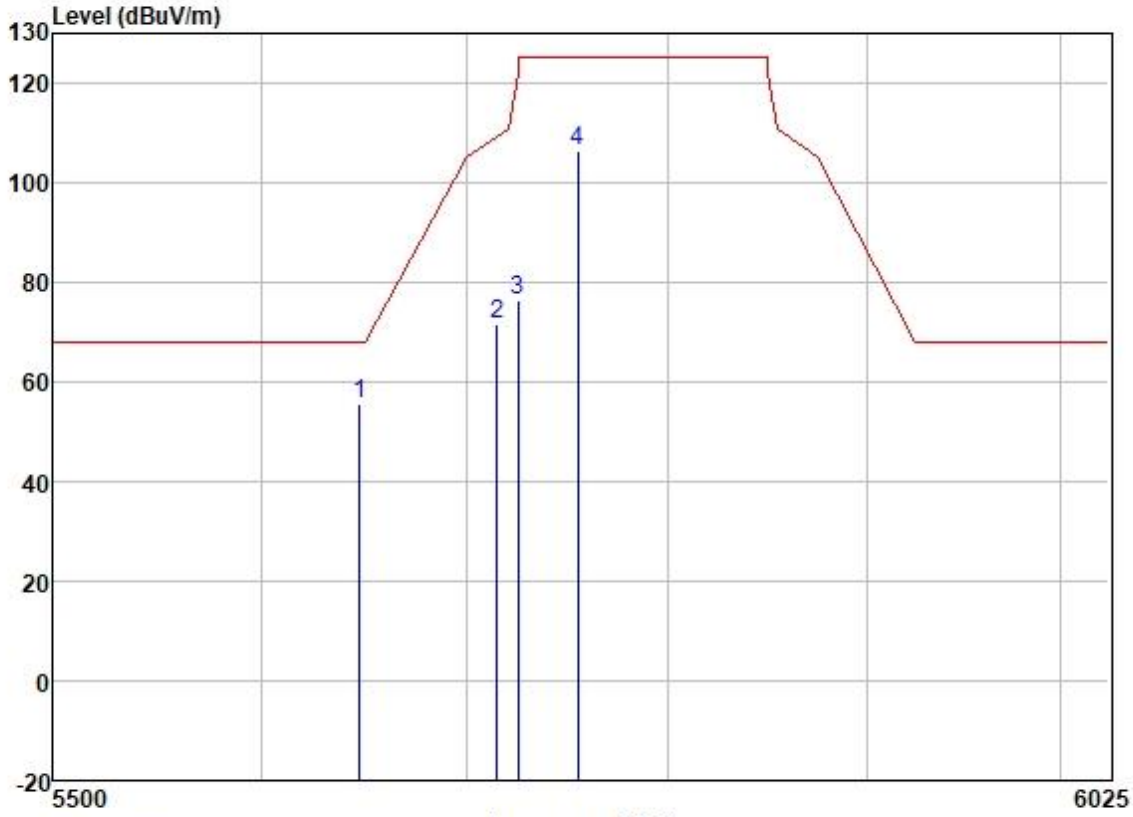
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	92.24	32.23	6.04	36.90	93.61	125.20	-31.59	VERTICAL	Peak
2	5850.000	52.72	32.25	6.00	36.90	54.07	122.20	-68.13	VERTICAL	Peak
3	5860.000	53.10	32.27	5.96	36.90	54.43	109.40	-54.97	VERTICAL	Peak
4	5928.062	54.18	32.34	6.00	36.90	55.62	68.20	-12.58	VERTICAL	Peak

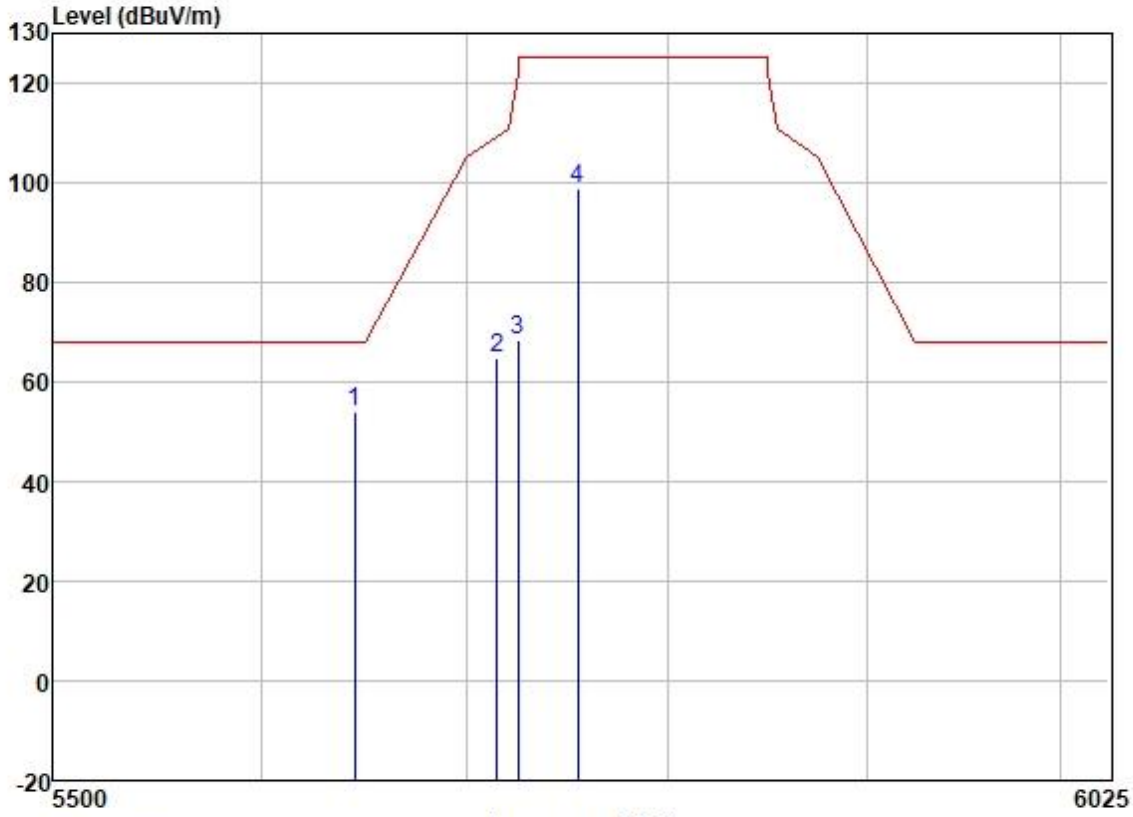
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5647.191	54.07	31.95	6.35	36.89	55.48	68.20	-12.72	HORIZONTAL	Peak
2	5715.000	70.18	32.04	6.33	36.89	71.66	109.40	-37.74	HORIZONTAL	Peak
3	5725.000	74.82	32.07	6.25	36.89	76.25	122.20	-45.95	HORIZONTAL	Peak
4	5755.000	105.01	32.10	6.20	36.89	106.42	125.20	-18.78	HORIZONTAL	Peak

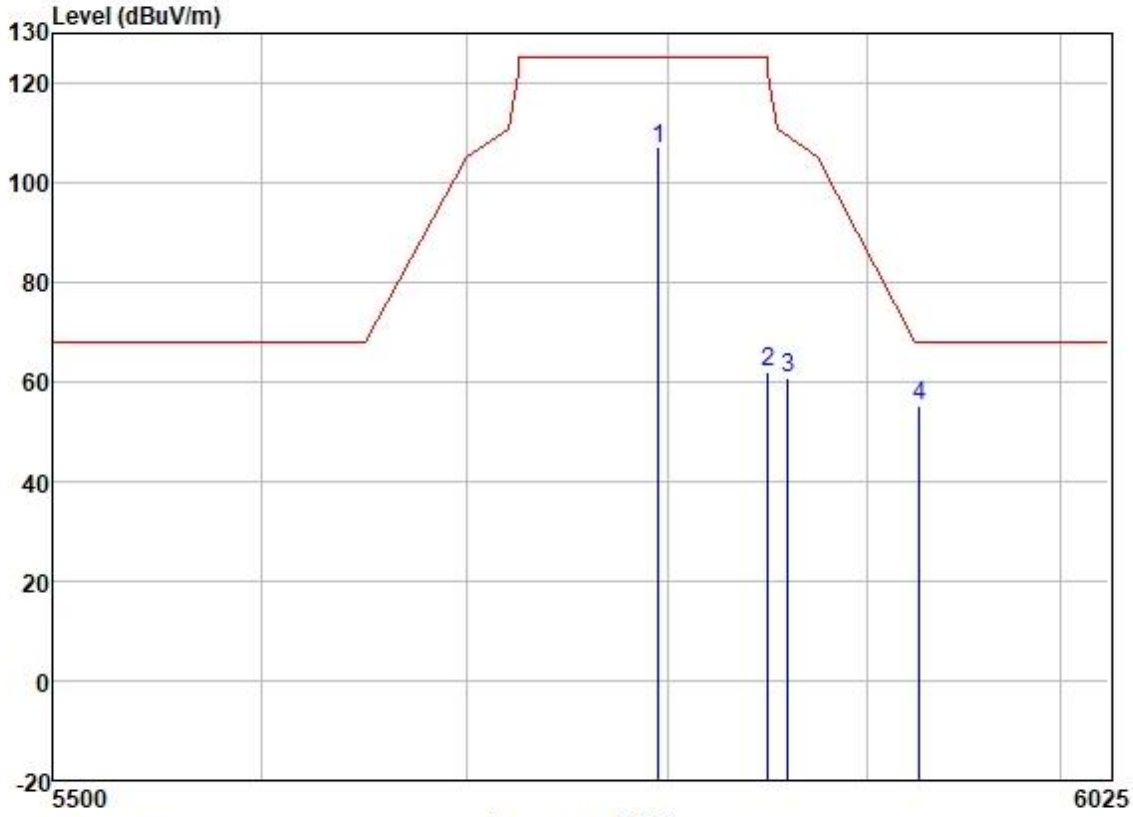
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5644.895	52.73	31.95	6.35	36.89	54.14	68.20	-14.06	VERTICAL	Peak
2	5715.000	63.28	32.04	6.33	36.89	64.76	109.40	-44.64	VERTICAL	Peak
3	5725.000	66.84	32.07	6.25	36.89	68.27	122.20	-53.93	VERTICAL	Peak
4	5755.000	97.49	32.10	6.20	36.89	98.90	125.20	-26.30	VERTICAL	Peak

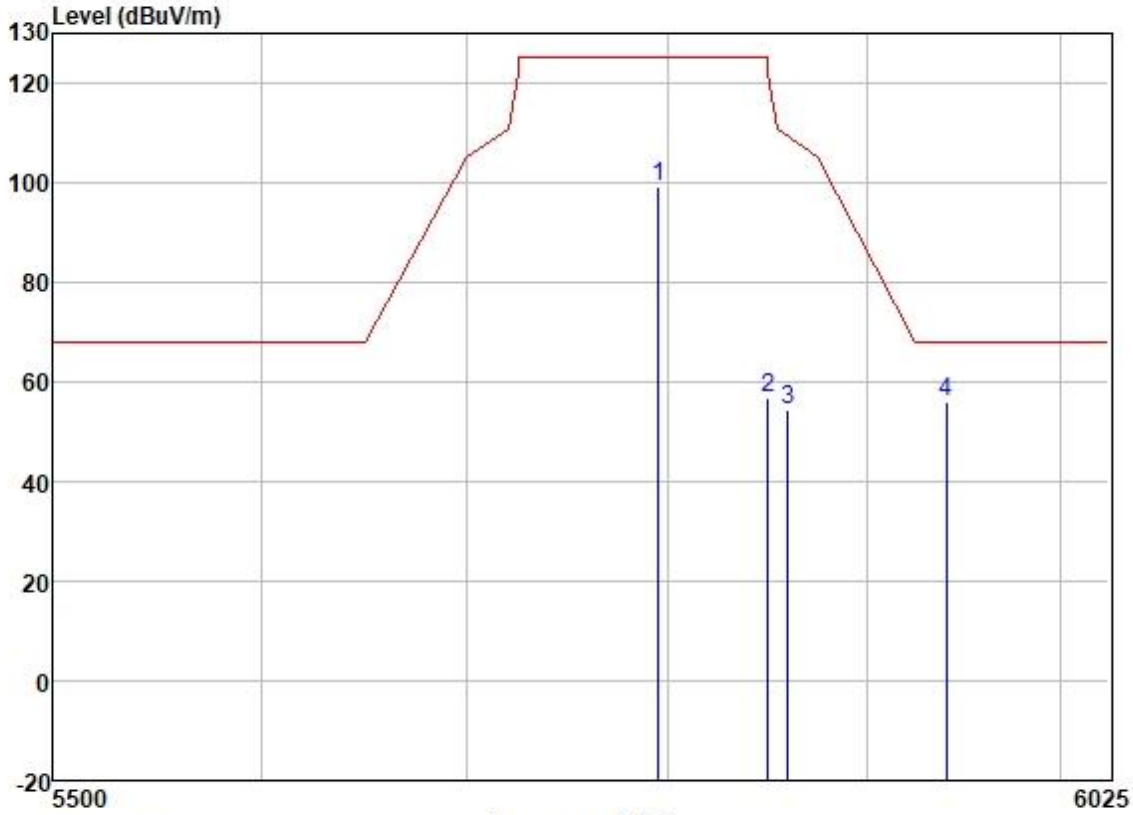
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	105.60	32.19	6.10	36.89	107.00	125.20	-18.20	HORIZONTAL	Peak
2	5850.000	60.77	32.25	6.00	36.90	62.12	122.20	-60.08	HORIZONTAL	Peak
3	5860.000	59.39	32.27	5.96	36.90	60.72	109.40	-48.68	HORIZONTAL	Peak
4	5926.921	53.91	32.34	6.00	36.90	55.35	68.20	-12.85	HORIZONTAL	Peak

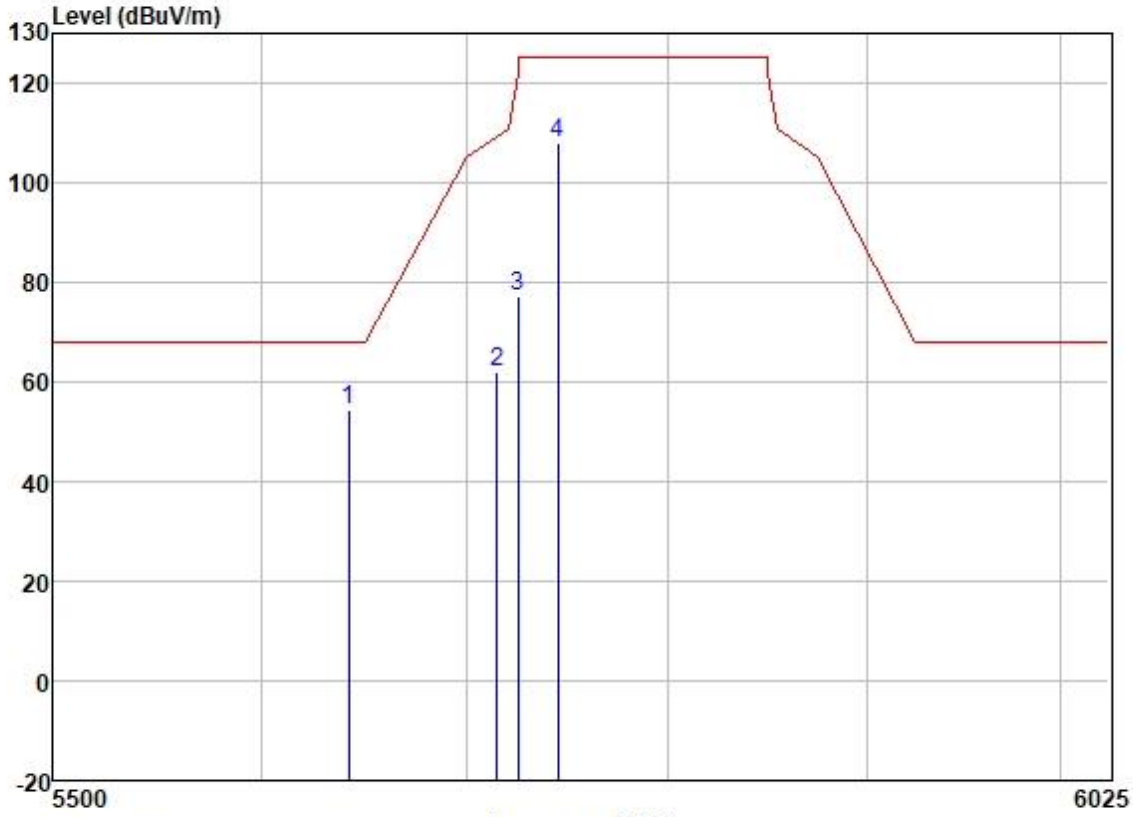
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	97.63	32.19	6.10	36.89	99.03	125.20	-26.17	VERTICAL	Peak
2	5850.000	55.58	32.25	6.00	36.90	56.93	122.20	-65.27	VERTICAL	Peak
3	5860.000	53.02	32.27	5.96	36.90	54.35	109.40	-55.05	VERTICAL	Peak
4	5940.729	54.51	32.34	6.00	36.90	55.95	68.20	-12.25	VERTICAL	Peak

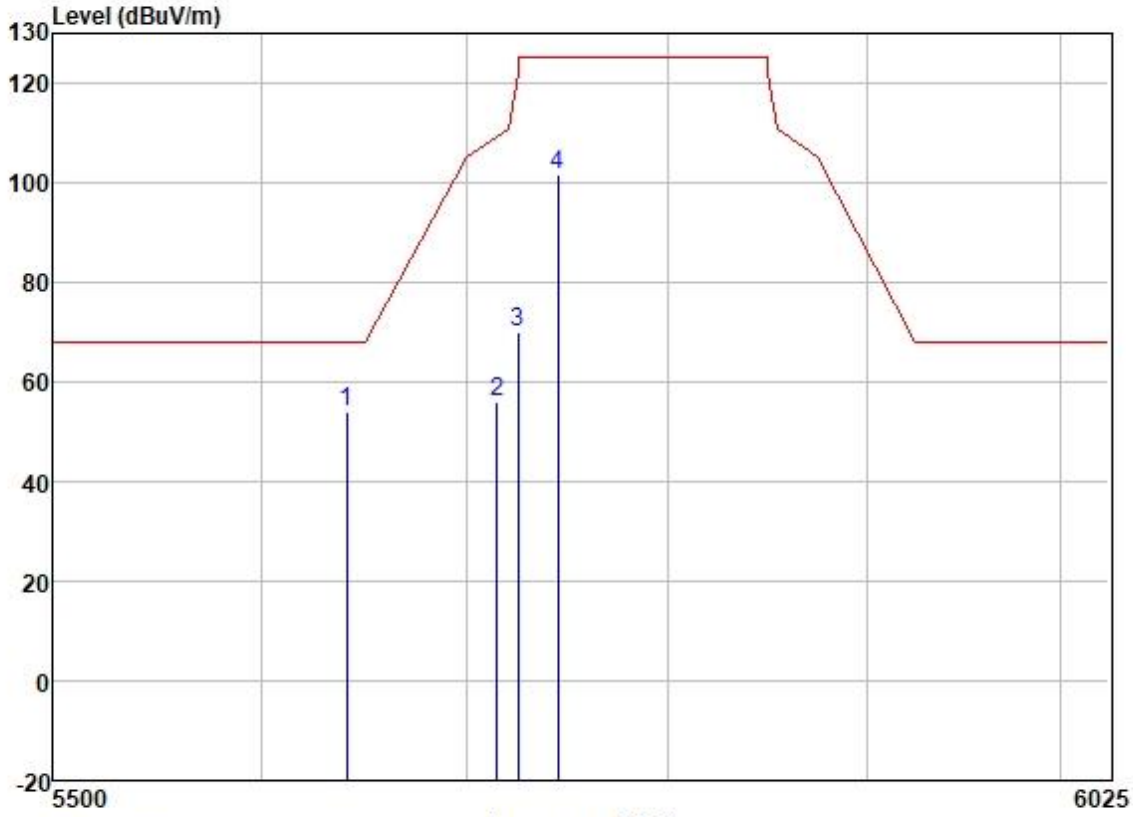
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5641.937	53.03	31.95	6.35	36.89	54.44	68.20	-13.76	HORIZONTAL	Peak
2	5715.000	60.69	32.04	6.33	36.89	62.17	109.40	-47.23	HORIZONTAL	Peak
3	5725.000	75.79	32.07	6.25	36.89	77.22	122.20	-44.98	HORIZONTAL	Peak
4	5745.000	106.44	32.10	6.20	36.89	107.85	125.20	-17.35	HORIZONTAL	Peak

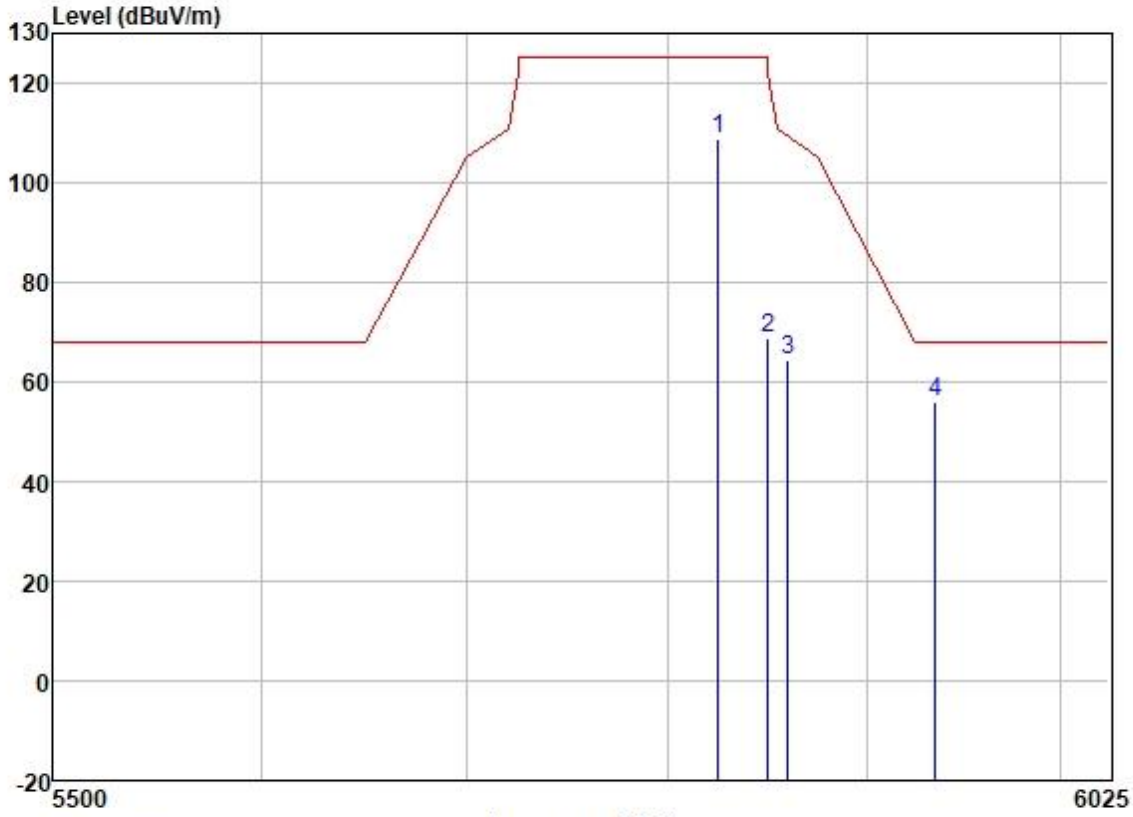
Test Mode: 20; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5640.968	52.42	31.95	6.35	36.89	53.83	68.20	-14.37	VERTICAL	Peak
2	5715.000	54.38	32.04	6.33	36.89	55.86	109.40	-53.54	VERTICAL	Peak
3	5725.000	68.49	32.07	6.25	36.89	69.92	122.20	-52.28	VERTICAL	Peak
4	5745.000	100.17	32.10	6.20	36.89	101.58	125.20	-23.62	VERTICAL	Peak

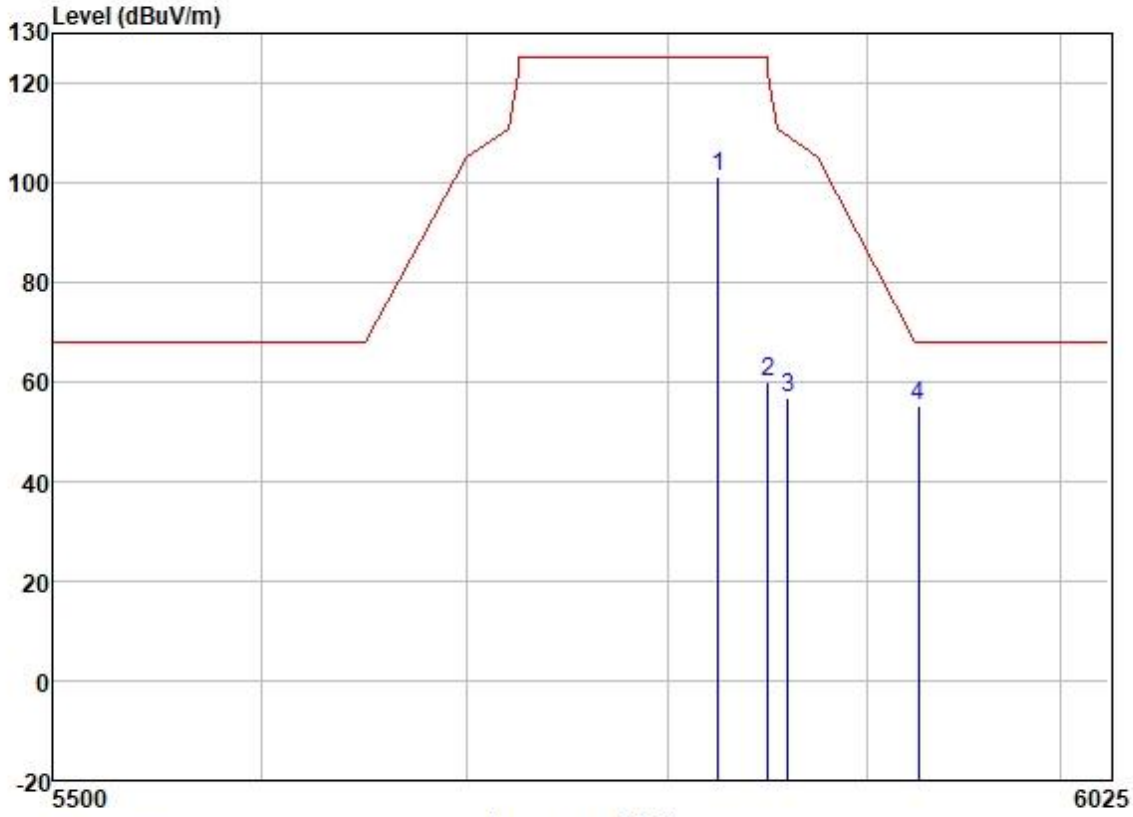
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	107.49	32.23	6.04	36.90	108.86	125.20	-16.34	HORIZONTAL	Peak
2	5850.000	67.61	32.25	6.00	36.90	68.96	122.20	-53.24	HORIZONTAL	Peak
3	5860.000	63.11	32.27	5.96	36.90	64.44	109.40	-44.96	HORIZONTAL	Peak
4	5935.427	54.40	32.34	6.00	36.90	55.84	68.20	-12.36	HORIZONTAL	Peak

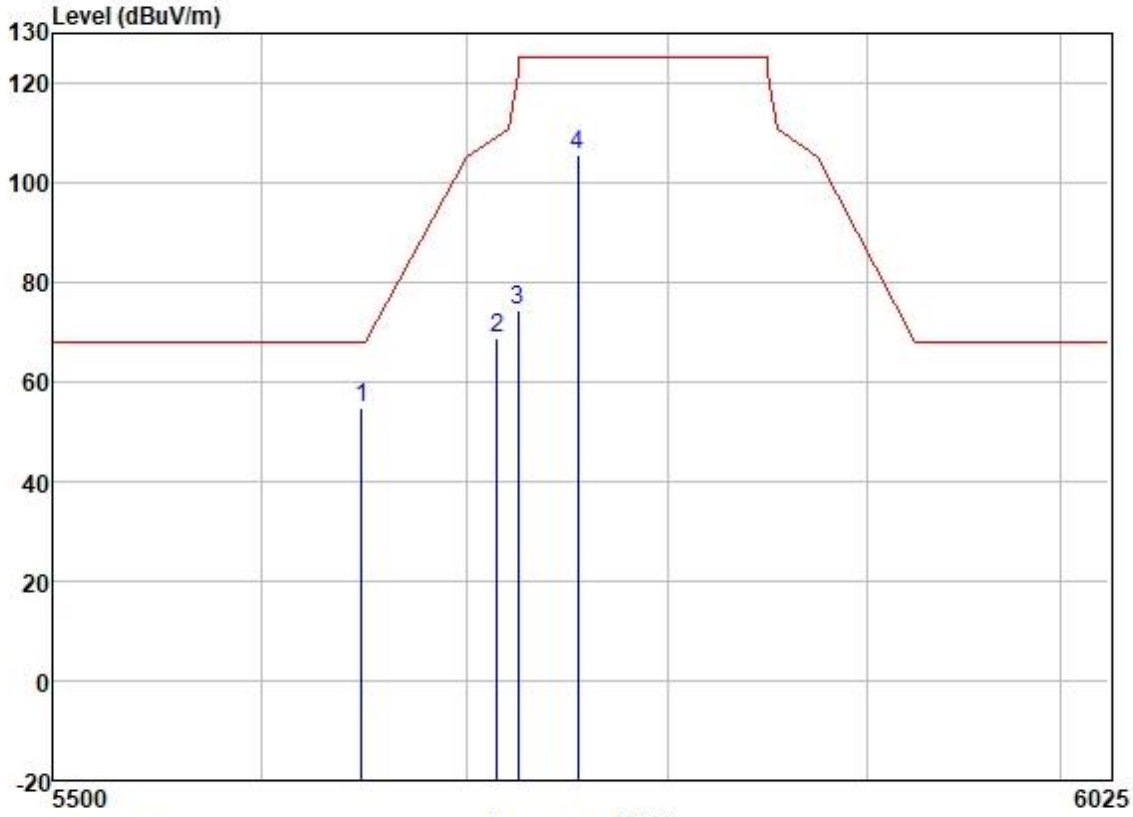
Test Mode: 20; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	99.97	32.23	6.04	36.90	101.34	125.20	-23.86	VERTICAL	Peak
2	5850.000	58.84	32.25	6.00	36.90	60.19	122.20	-62.01	VERTICAL	Peak
3	5860.000	55.62	32.27	5.96	36.90	56.95	109.40	-52.45	VERTICAL	Peak
4	5926.810	53.88	32.34	6.00	36.90	55.32	68.20	-12.88	VERTICAL	Peak

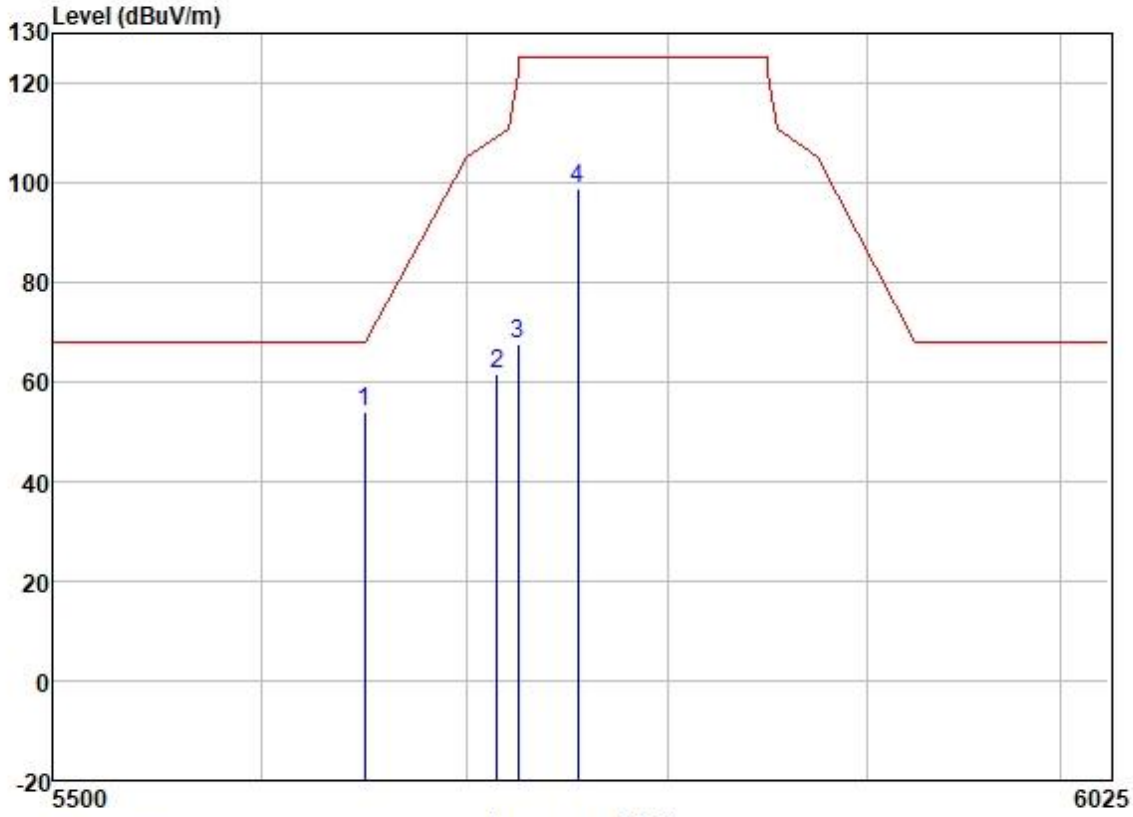
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5648.416	53.48	31.95	6.35	36.89	54.89	68.20	-13.31	HORIZONTAL	Peak
2	5715.000	67.45	32.04	6.33	36.89	68.93	109.40	-40.47	HORIZONTAL	Peak
3	5725.000	72.96	32.07	6.25	36.89	74.39	122.20	-47.81	HORIZONTAL	Peak
4	5755.000	104.00	32.10	6.20	36.89	105.41	125.20	-19.79	HORIZONTAL	Peak

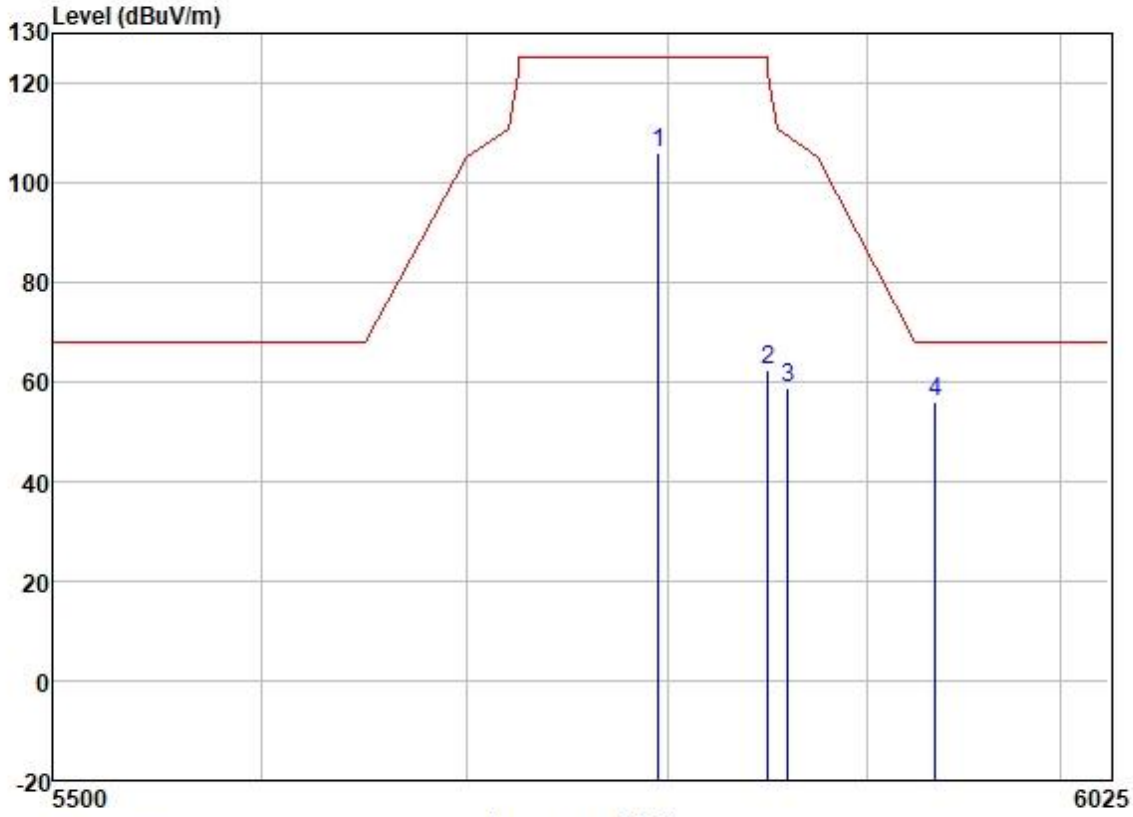
Test Mode: 20; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.948	52.73	31.95	6.35	36.89	54.14	68.20	-14.06	VERTICAL	Peak
2	5715.000	60.00	32.04	6.33	36.89	61.48	109.40	-47.92	VERTICAL	Peak
3	5725.000	66.26	32.07	6.25	36.89	67.69	122.20	-54.51	VERTICAL	Peak
4	5755.000	97.50	32.10	6.20	36.89	98.91	125.20	-26.29	VERTICAL	Peak

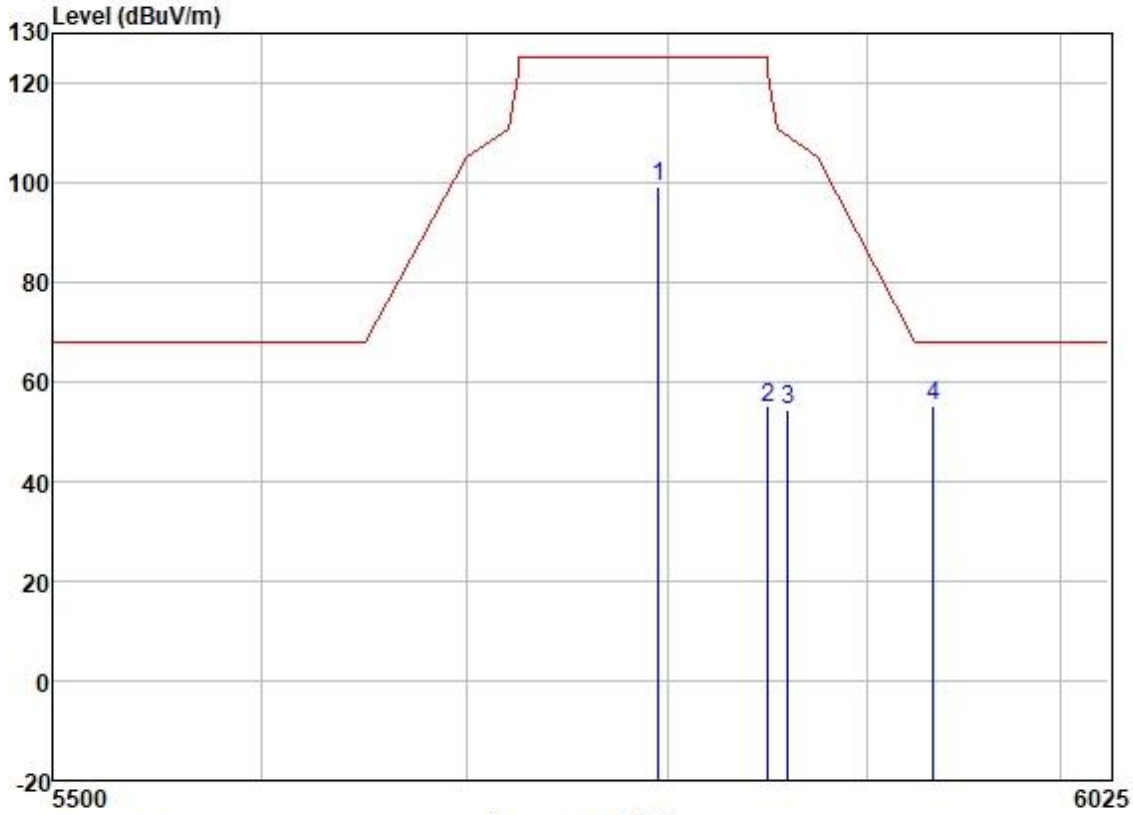
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	104.56	32.19	6.10	36.89	105.96	125.20	-19.24	HORIZONTAL	Peak
2	5850.000	61.01	32.25	6.00	36.90	62.36	122.20	-59.84	HORIZONTAL	Peak
3	5860.000	57.59	32.27	5.96	36.90	58.92	109.40	-50.48	HORIZONTAL	Peak
4	5935.243	54.59	32.34	6.00	36.90	56.03	68.20	-12.17	HORIZONTAL	Peak

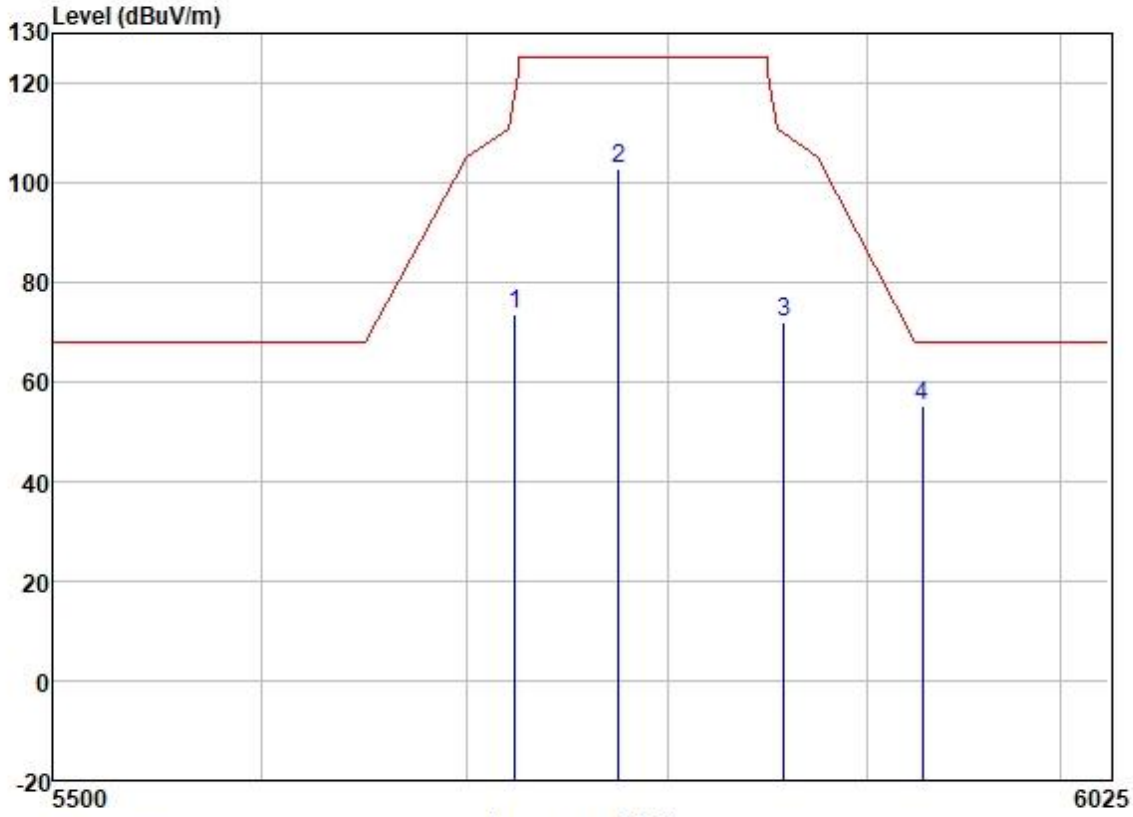
Test Mode: 20; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	97.92	32.19	6.10	36.89	99.32	125.20	-25.88	VERTICAL	Peak
2	5850.000	53.65	32.25	6.00	36.90	55.00	122.20	-67.20	VERTICAL	Peak
3	5860.000	53.12	32.27	5.96	36.90	54.45	109.40	-54.95	VERTICAL	Peak
4	5934.024	53.68	32.34	6.00	36.90	55.12	68.20	-13.08	VERTICAL	Peak

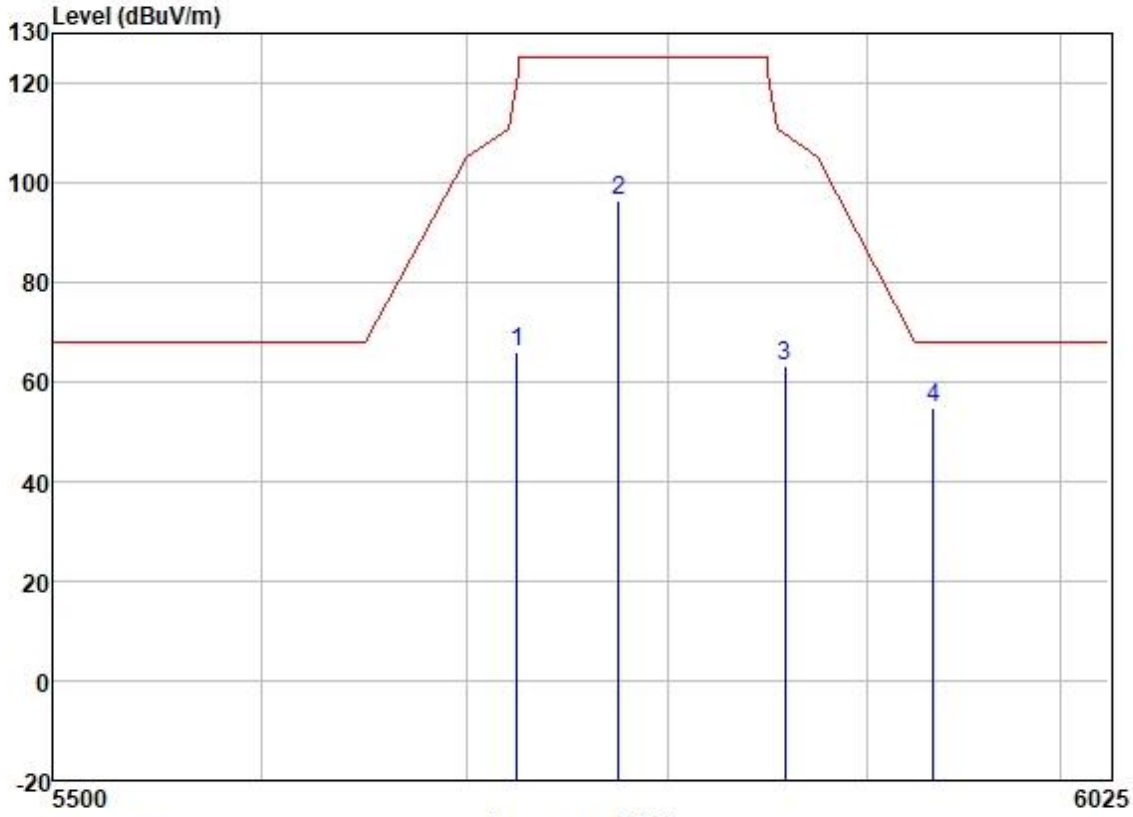
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5723.787	72.00	32.07	6.25	36.89	73.43	119.44	-46.01	HORIZONTAL	Peak
2	5775.000	101.55	32.16	6.10	36.89	102.92	125.20	-22.28	HORIZONTAL	Peak
3	5857.975	70.58	32.27	5.96	36.90	71.91	109.97	-38.06	HORIZONTAL	Peak
4	5928.429	53.68	32.34	6.00	36.90	55.12	68.20	-13.08	HORIZONTAL	Peak

Test Mode: 20; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5724.691	64.63	32.07	6.25	36.89	66.06	121.50	-55.44	VERTICAL	Peak
2	5775.000	95.17	32.16	6.10	36.89	96.54	125.20	-28.66	VERTICAL	Peak
3	5858.592	61.96	32.27	5.96	36.90	63.29	109.79	-46.50	VERTICAL	Peak
4	5934.052	53.28	32.34	6.00	36.90	54.72	68.20	-13.48	VERTICAL	Peak

7.3 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
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.3.1 E.U.T. Operation

Operating Environment:

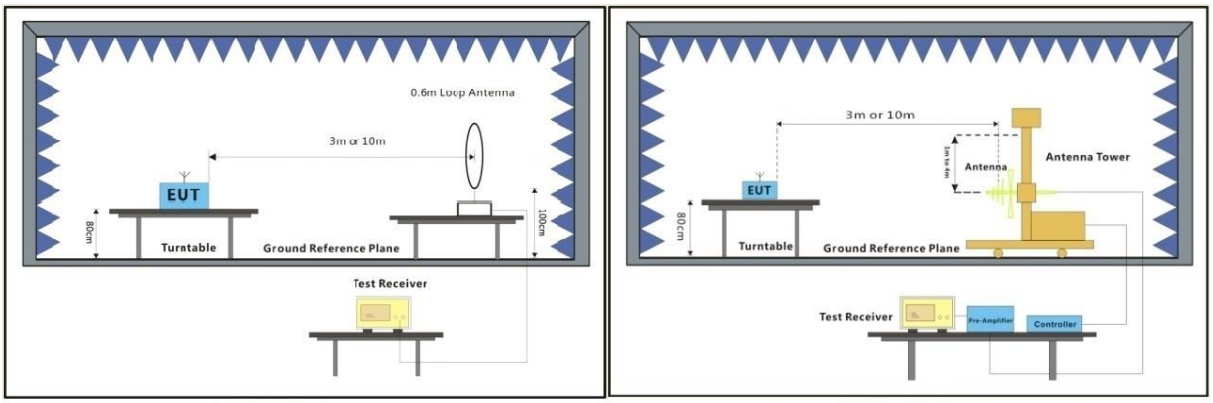
Temperature: 22.4 °C Humidity: 55.4 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	13	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.
Final test	14	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-scan	15	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	16	Charge+TX mode (U-NII-2A)_Keep the EUT in chanrging 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-scan	17	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	18	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-scan	19	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.
Pre-scan	20	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.

7.3.3 Test Setup Diagram



Below 30MHz 30MHz-1GHz

7.3.4 Measurement Procedure and Data

a. 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 peak, quasi-peak or average 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.

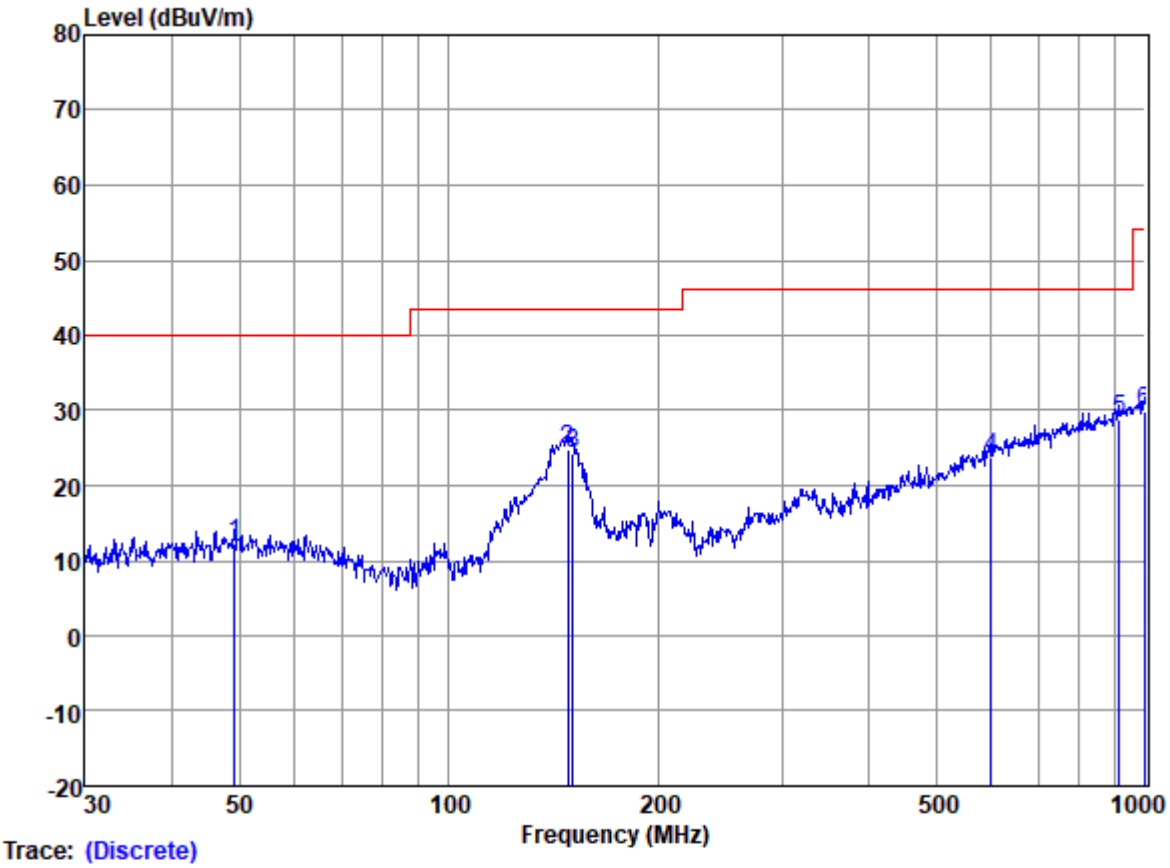
Remark:

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 1GHz, 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.

Test Mode: 14; Polarity: Horizontal

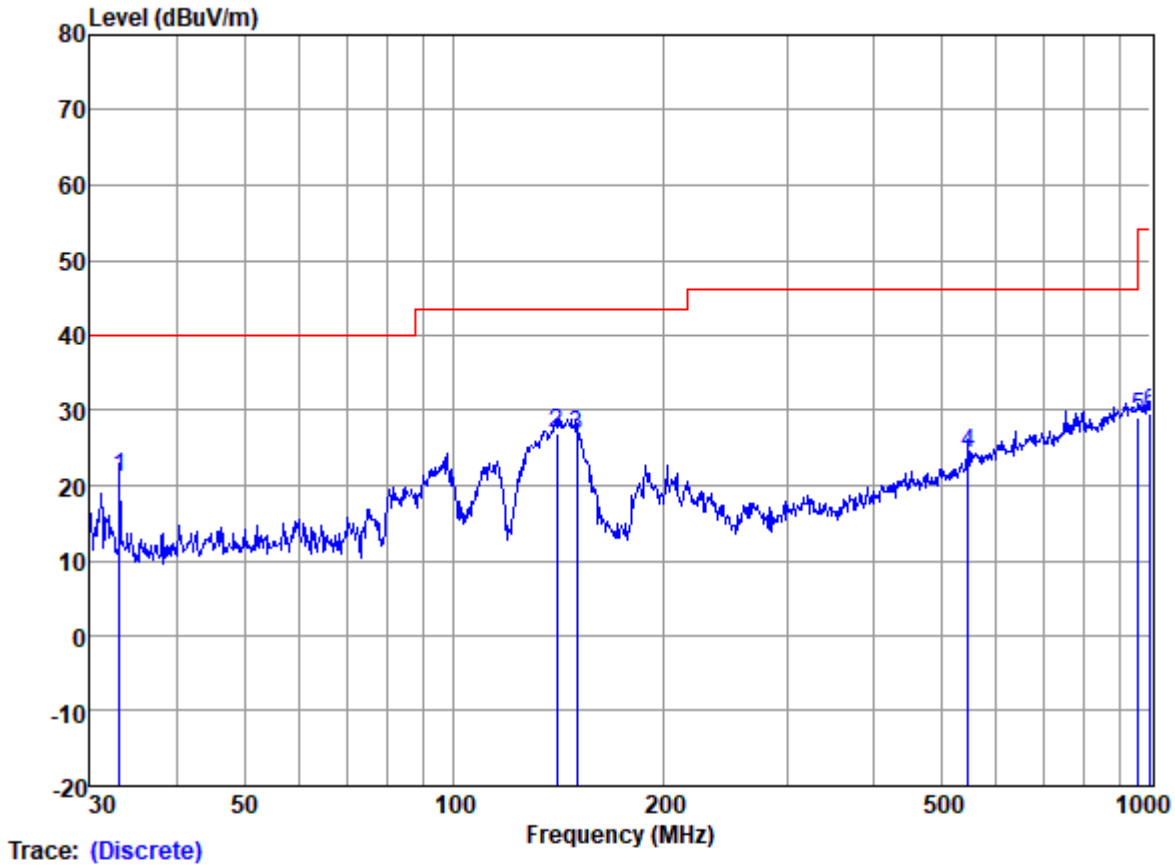


Trace: (Discrete)

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

	Freq	Read Level	Anterna 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	49.19	24.36	13.94	1.14	27.17	12.27	40.00	-27.73	HORIZONTAL	QP
2	147.92	35.74	13.70	2.22	26.85	24.81	43.50	-18.69	HORIZONTAL	QP
3	150.54	35.14	13.80	2.24	26.83	24.35	43.50	-19.15	HORIZONTAL	QP
4	599.32	27.01	19.90	5.14	28.21	23.84	46.00	-22.16	HORIZONTAL	QP
5	916.07	26.15	23.53	6.96	27.82	28.82	46.00	-17.18	HORIZONTAL	QP
6	996.50	25.79	24.27	7.43	27.66	29.83	54.00	-24.17	HORIZONTAL	QP

Test Mode: 14; Polarity: Vertical



Trace: (Discrete)

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

	Freq	Read Level	Anterna 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	33.09	34.36	12.76	1.05	27.19	20.98	40.00	-19.02	VERTICAL	QP
2	140.34	38.50	13.35	2.10	26.92	27.03	43.50	-16.47	VERTICAL	QP
3	150.01	37.34	13.80	2.24	26.84	26.54	43.50	-16.96	VERTICAL	QP
4	547.10	28.91	18.60	4.76	28.09	24.18	46.00	-21.82	VERTICAL	QP
5	958.79	25.71	23.90	7.18	27.73	29.06	46.00	-16.94	VERTICAL	QP
6	1000.00	25.46	24.30	7.43	27.66	29.53	54.00	-24.47	VERTICAL	QP

7.4 Radiated Emissions (above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method: KDB 789033 D02 II G
Measurement Distance: 3m
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
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.4.1 E.U.T. Operation

Operating Environment:

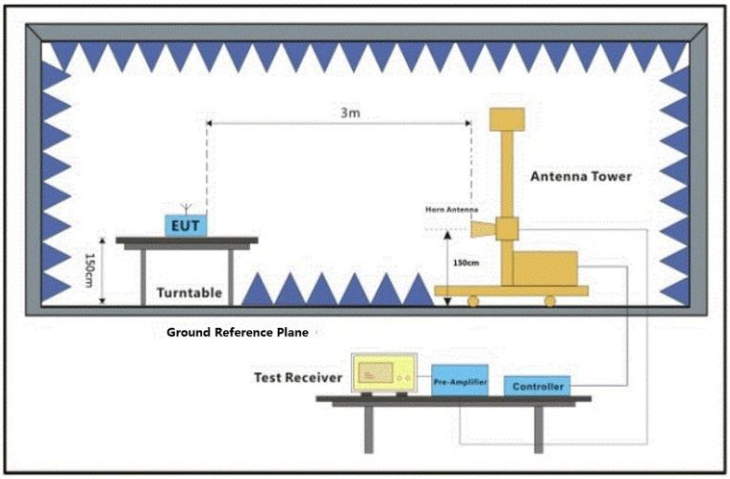
Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	13	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.
Final test	14	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-scan	15	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.
Final test	16	Charge+TX mode (U-NII-2A)_Keep the EUT in chanrging 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-scan	17	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.
Final test	18	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-scan	19	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.
Final test	20	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.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-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 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 peak, quasi-peak or average 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.

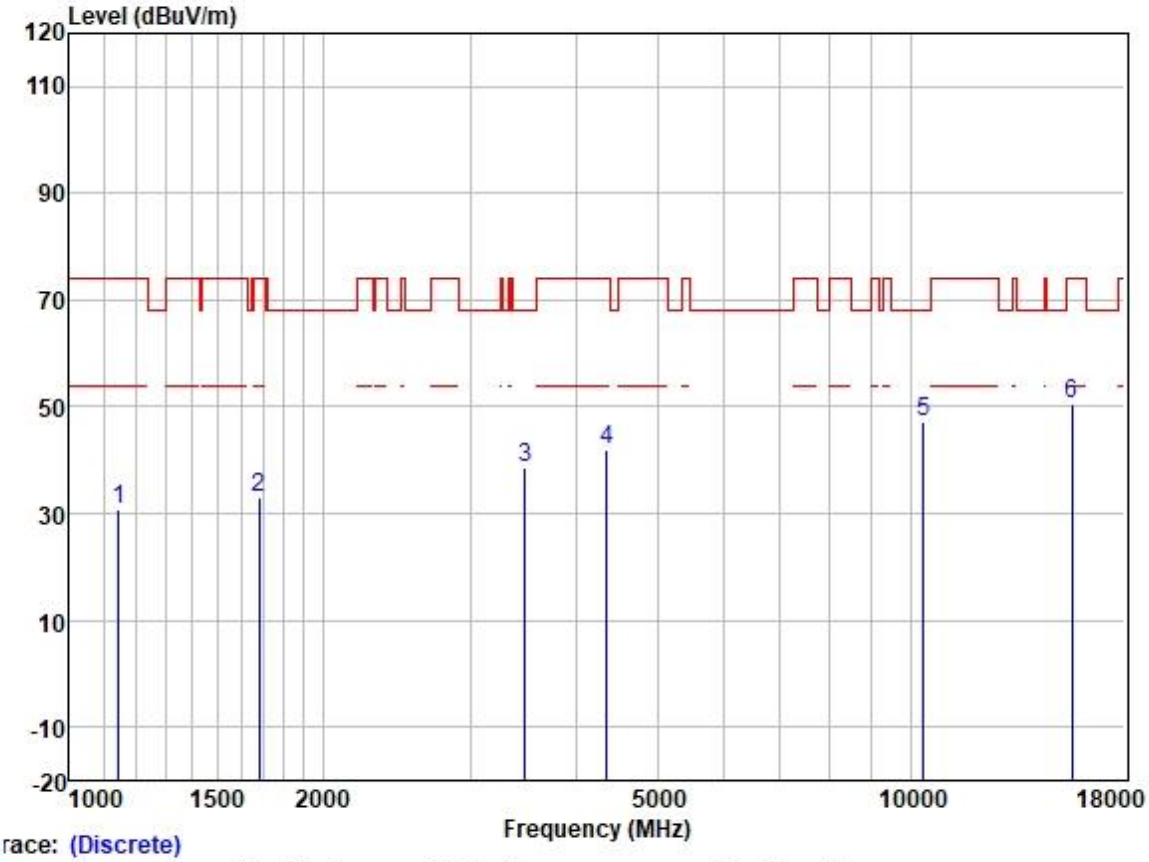
Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 40GHz, the disturbance above 18GHz 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. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

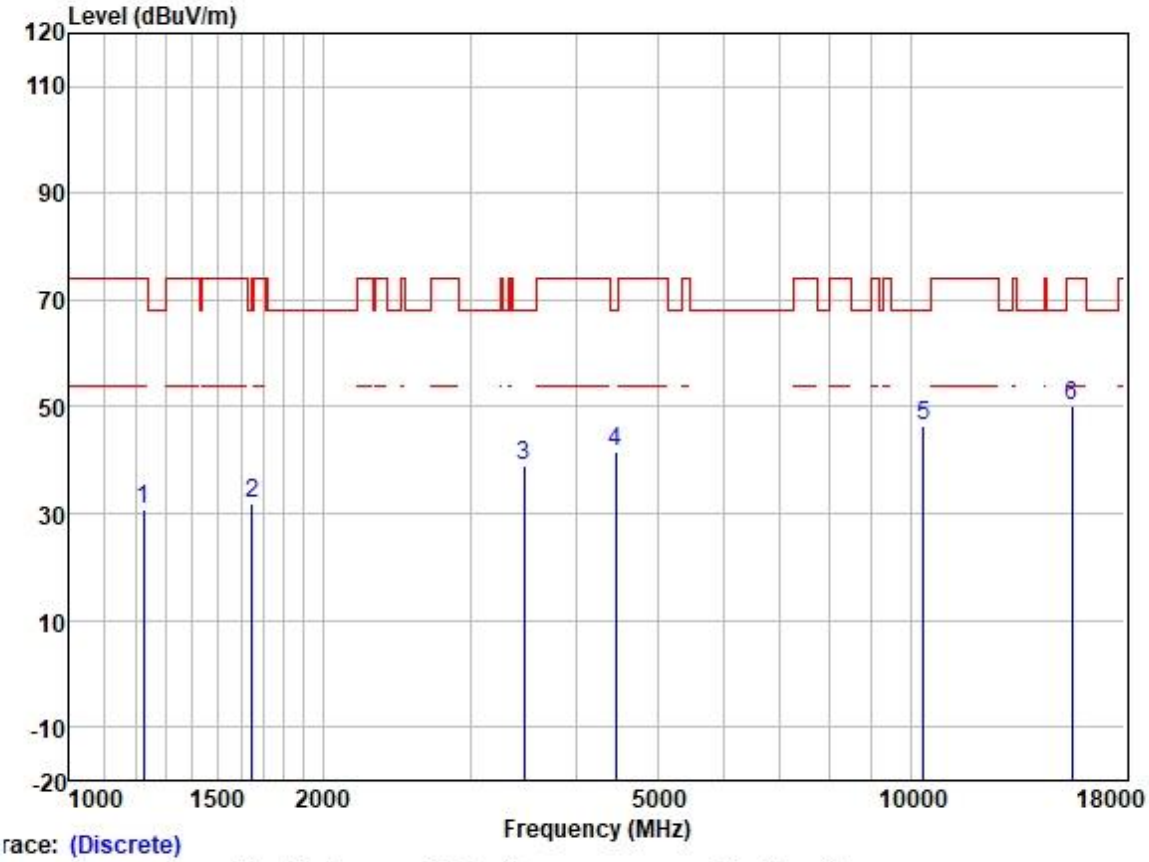
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1145.507	42.27	24.48	2.32	38.42	30.65	74.00	-43.35	HORIZONTAL	Peak
2	1682.477	42.35	25.68	2.80	37.91	32.92	74.00	-41.08	HORIZONTAL	Peak
3	3485.601	42.52	28.89	4.27	36.95	38.73	68.20	-29.47	HORIZONTAL	Peak
4	4354.454	43.33	30.59	4.68	36.81	41.79	74.00	-32.21	HORIZONTAL	Peak
5	10360.000	38.14	39.28	7.29	37.37	47.34	68.20	-20.86	HORIZONTAL	Peak
6	15540.000	36.92	39.05	9.88	35.39	50.46	74.00	-23.54	HORIZONTAL	Peak

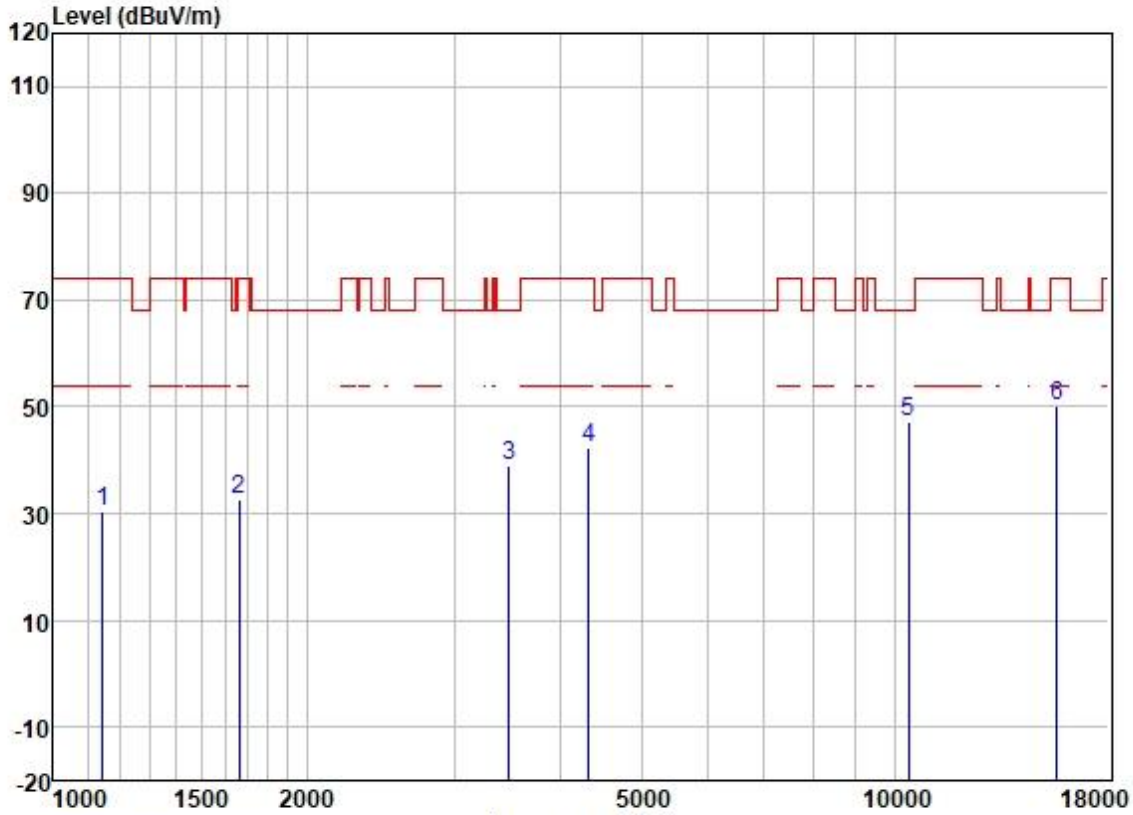
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1224.247	41.85	24.85	2.31	38.37	30.64	74.00	-43.36	VERTICAL	Peak
2	1648.778	41.35	25.63	2.80	37.93	31.85	68.20	-36.35	VERTICAL	Peak
3	3475.541	42.78	28.89	4.25	36.95	38.97	68.20	-29.23	VERTICAL	Peak
4	4456.315	42.67	30.75	4.88	36.81	41.49	68.20	-26.71	VERTICAL	Peak
5	10360.000	37.21	39.28	7.29	37.37	46.41	68.20	-21.79	VERTICAL	Peak
6	15540.000	36.64	39.05	9.88	35.39	50.18	74.00	-23.82	VERTICAL	Peak

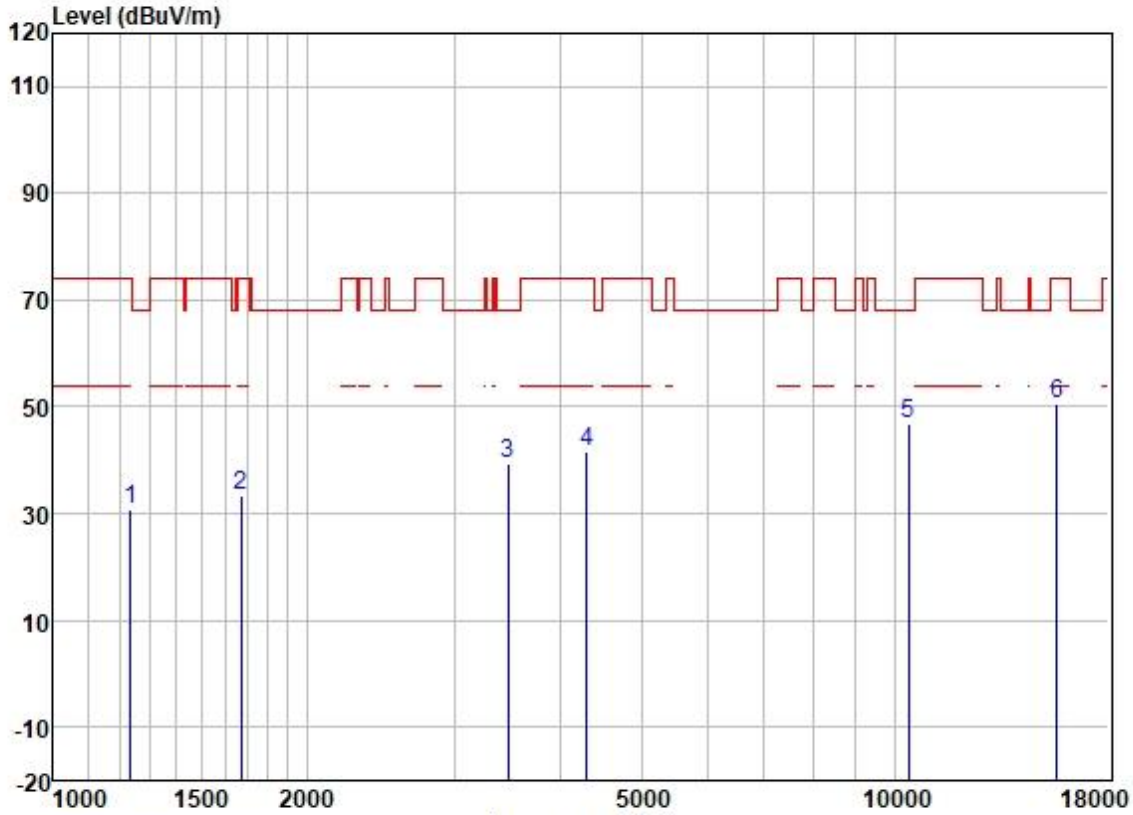
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1145.507	42.05	24.48	2.32	38.42	30.43	74.00	-43.57	HORIZONTAL	Peak
2	1663.137	41.97	25.65	2.80	37.91	32.51	74.00	-41.49	HORIZONTAL	Peak
3	3485.601	42.60	28.89	4.27	36.95	38.81	68.20	-29.39	HORIZONTAL	Peak
4	4329.354	44.07	30.54	4.67	36.81	42.47	74.00	-31.53	HORIZONTAL	Peak
5	10400.000	37.79	39.33	7.32	37.36	47.08	68.20	-21.12	HORIZONTAL	Peak
6	15600.000	36.63	38.99	9.88	35.39	50.11	74.00	-23.89	HORIZONTAL	Peak

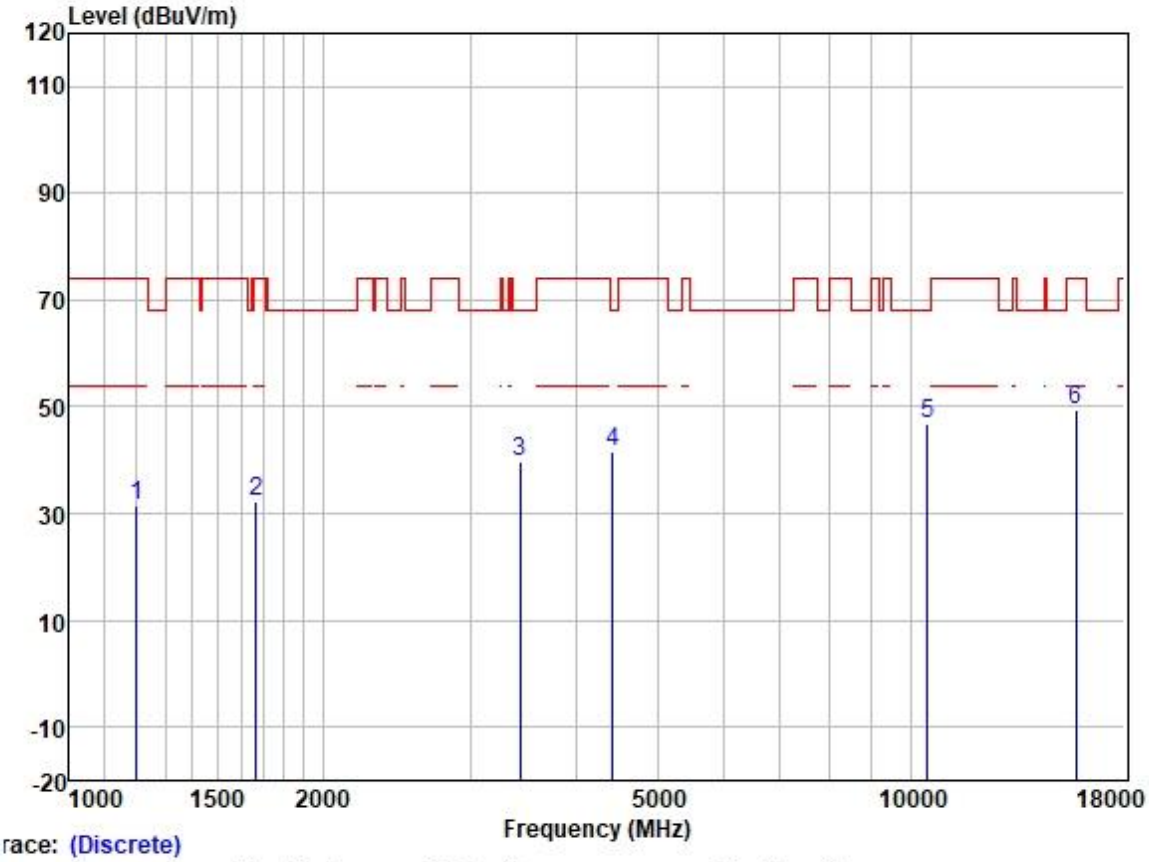
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1234.909	41.89	24.93	2.30	38.37	30.75	74.00	-43.25	VERTICAL	Peak
2	1672.779	42.77	25.67	2.80	37.91	33.33	74.00	-40.67	VERTICAL	Peak
3	3475.541	43.17	28.89	4.25	36.95	39.36	68.20	-28.84	VERTICAL	Peak
4	4304.400	43.46	30.48	4.65	36.81	41.78	74.00	-32.22	VERTICAL	Peak
5	10400.000	37.49	39.33	7.32	37.36	46.78	68.20	-21.42	VERTICAL	Peak
6	15600.000	36.92	38.99	9.88	35.39	50.40	74.00	-23.60	VERTICAL	Peak

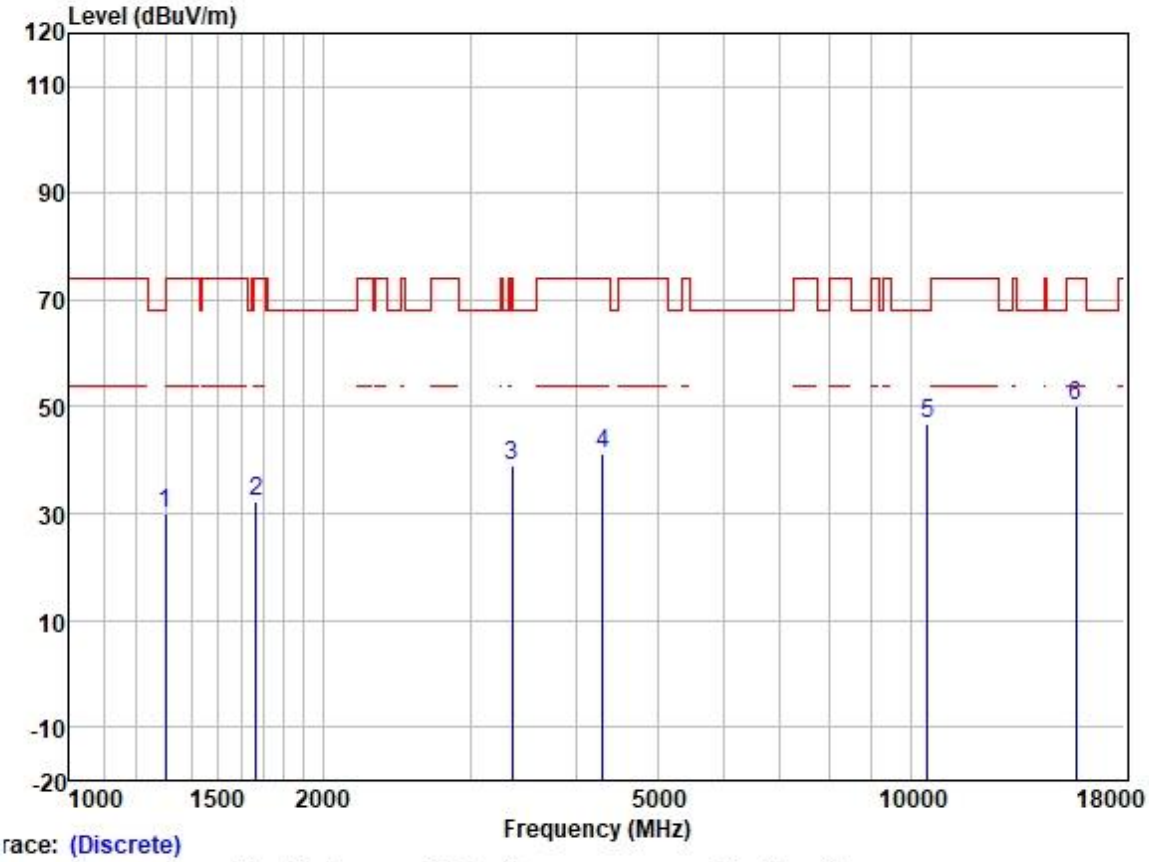
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	42.83	24.70	2.34	38.39	31.48	74.00	-42.52	HORIZONTAL	Peak
2	1667.951	41.90	25.66	2.80	37.91	32.45	74.00	-41.55	HORIZONTAL	Peak
3	3435.590	43.60	28.87	4.16	36.97	39.66	68.20	-28.54	HORIZONTAL	Peak
4	4430.628	42.98	30.72	4.78	36.81	41.67	68.20	-26.53	HORIZONTAL	Peak
5	10480.000	37.21	39.46	7.40	37.36	46.71	68.20	-21.49	HORIZONTAL	Peak
6	15720.000	36.31	38.78	9.87	35.39	49.57	74.00	-24.43	HORIZONTAL	Peak

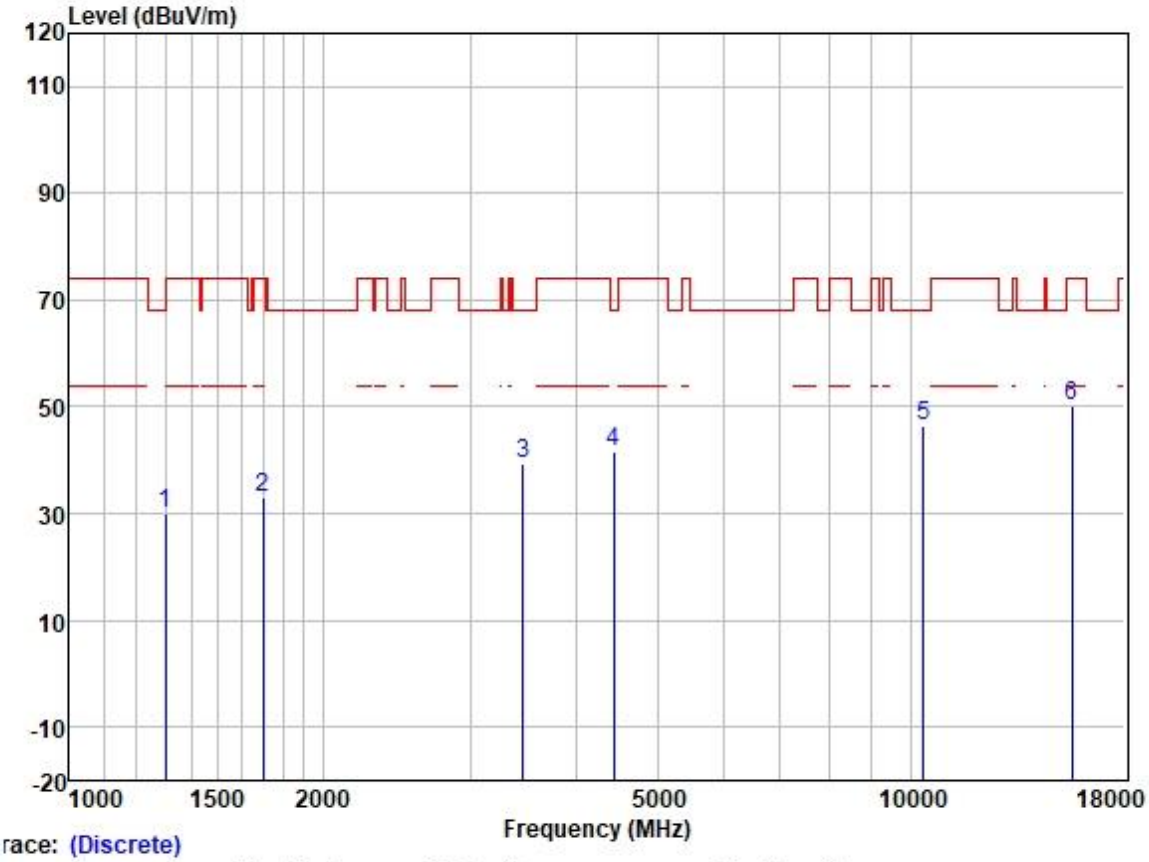
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	40.59	25.20	2.60	38.31	30.08	74.00	-43.92	VERTICAL	Peak
2	1667.951	41.85	25.66	2.80	37.91	32.40	74.00	-41.60	VERTICAL	Peak
3	3357.061	43.11	28.81	4.09	37.01	39.00	74.00	-35.00	VERTICAL	Peak
4	4304.400	43.04	30.48	4.65	36.81	41.36	74.00	-32.64	VERTICAL	Peak
5	10480.000	37.37	39.46	7.40	37.36	46.87	68.20	-21.33	VERTICAL	Peak
6	15720.000	36.81	38.78	9.87	35.39	50.07	74.00	-23.93	VERTICAL	Peak

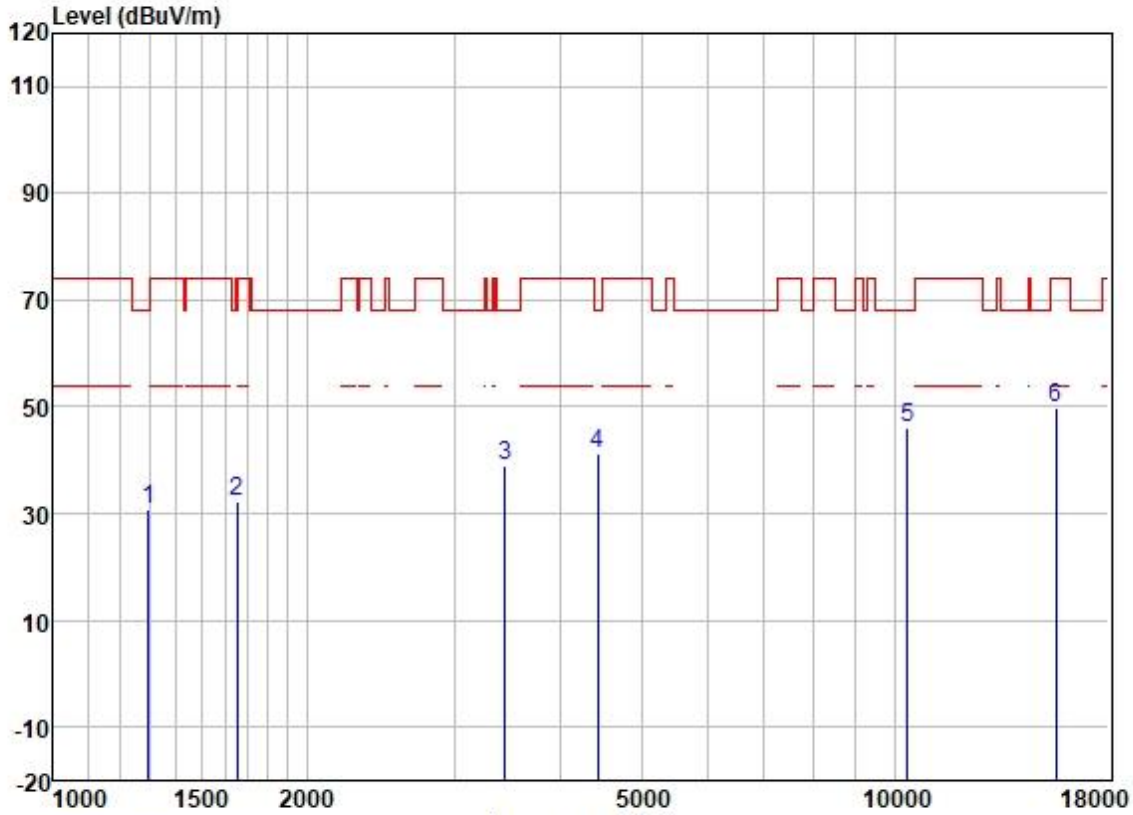
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	40.71	25.20	2.60	38.31	30.20	74.00	-43.80	HORIZONTAL	Peak
2	1697.129	42.47	25.71	2.80	37.89	33.09	74.00	-40.91	HORIZONTAL	Peak
3	3465.510	43.22	28.88	4.22	36.95	39.37	68.20	-28.83	HORIZONTAL	Peak
4	4443.453	42.76	30.73	4.83	36.81	41.51	68.20	-26.69	HORIZONTAL	Peak
5	10360.000	37.19	39.28	7.29	37.37	46.39	68.20	-21.81	HORIZONTAL	Peak
6	15540.000	36.68	39.05	9.88	35.39	50.22	74.00	-23.78	HORIZONTAL	Peak

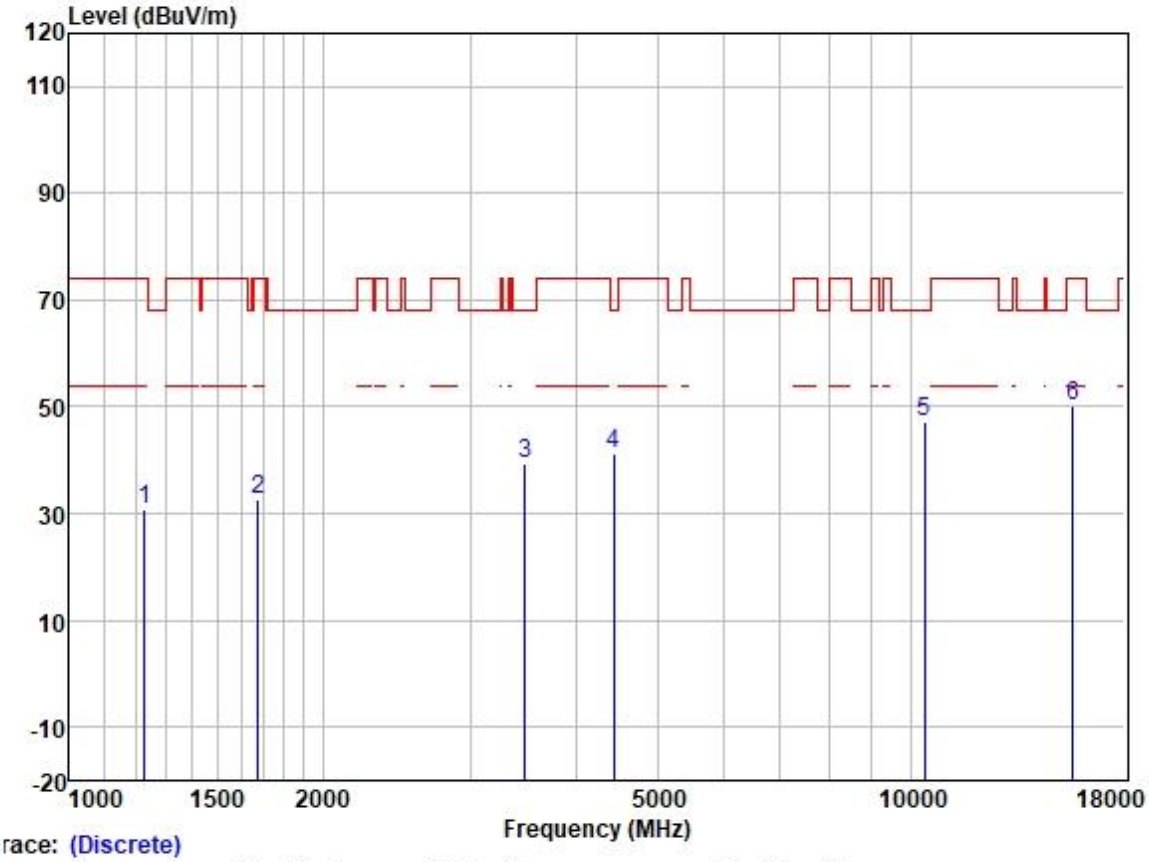
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	41.19	25.19	2.58	38.31	30.65	68.20	-37.55	VERTICAL	Peak
2	1653.550	41.57	25.64	2.80	37.93	32.08	68.20	-36.12	VERTICAL	Peak
3	3445.535	42.96	28.87	4.18	36.96	39.05	68.20	-29.15	VERTICAL	Peak
4	4443.453	42.43	30.73	4.83	36.81	41.18	68.20	-27.02	VERTICAL	Peak
5	10360.000	36.83	39.28	7.29	37.37	46.03	68.20	-22.17	VERTICAL	Peak
6	15540.000	36.19	39.05	9.88	35.39	49.73	74.00	-24.27	VERTICAL	Peak

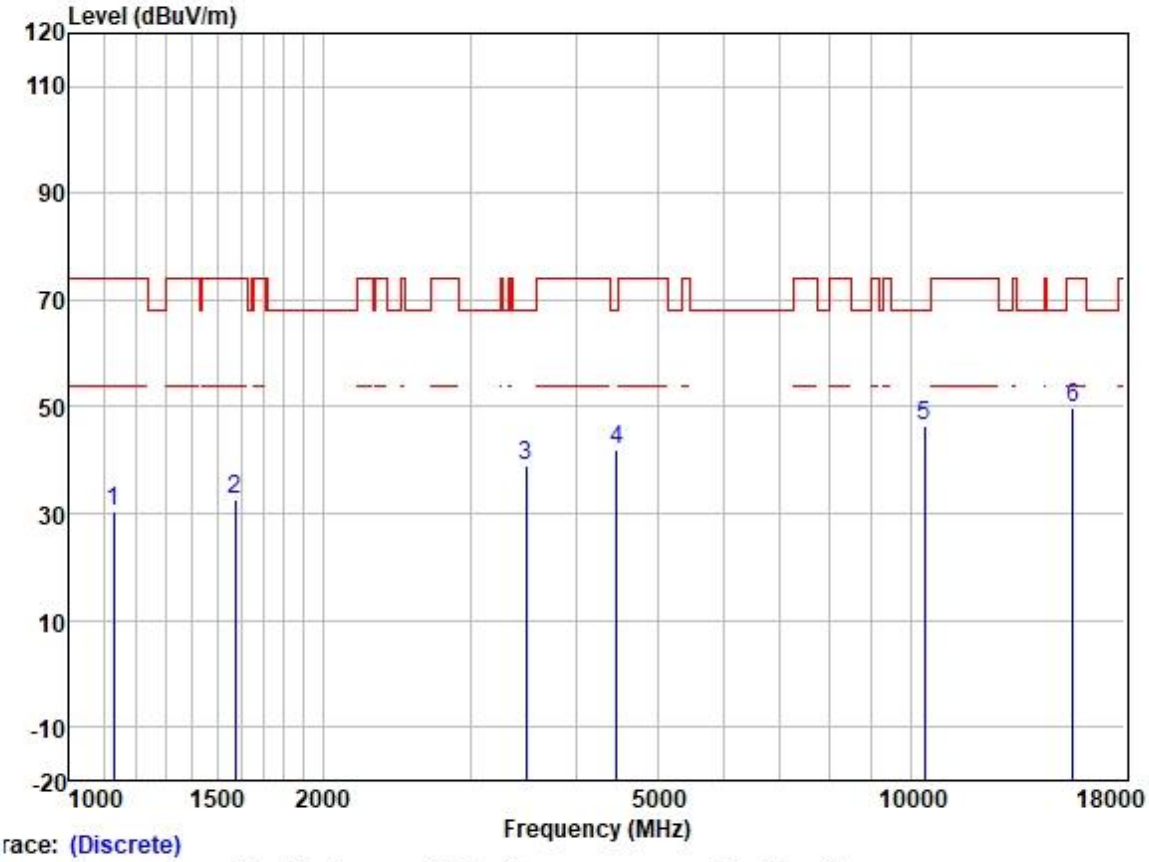
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1227.791	41.94	24.88	2.31	38.37	30.76	74.00	-43.24	HORIZONTAL	Peak
2	1677.621	42.03	25.68	2.80	37.91	32.60	74.00	-41.40	HORIZONTAL	Peak
3	3485.601	43.09	28.89	4.27	36.95	39.30	68.20	-28.90	HORIZONTAL	Peak
4	4443.453	42.59	30.73	4.83	36.81	41.34	68.20	-26.86	HORIZONTAL	Peak
5	10400.000	38.01	39.33	7.32	37.36	47.30	68.20	-20.90	HORIZONTAL	Peak
6	15600.000	36.63	38.99	9.88	35.39	50.11	74.00	-23.89	HORIZONTAL	Peak

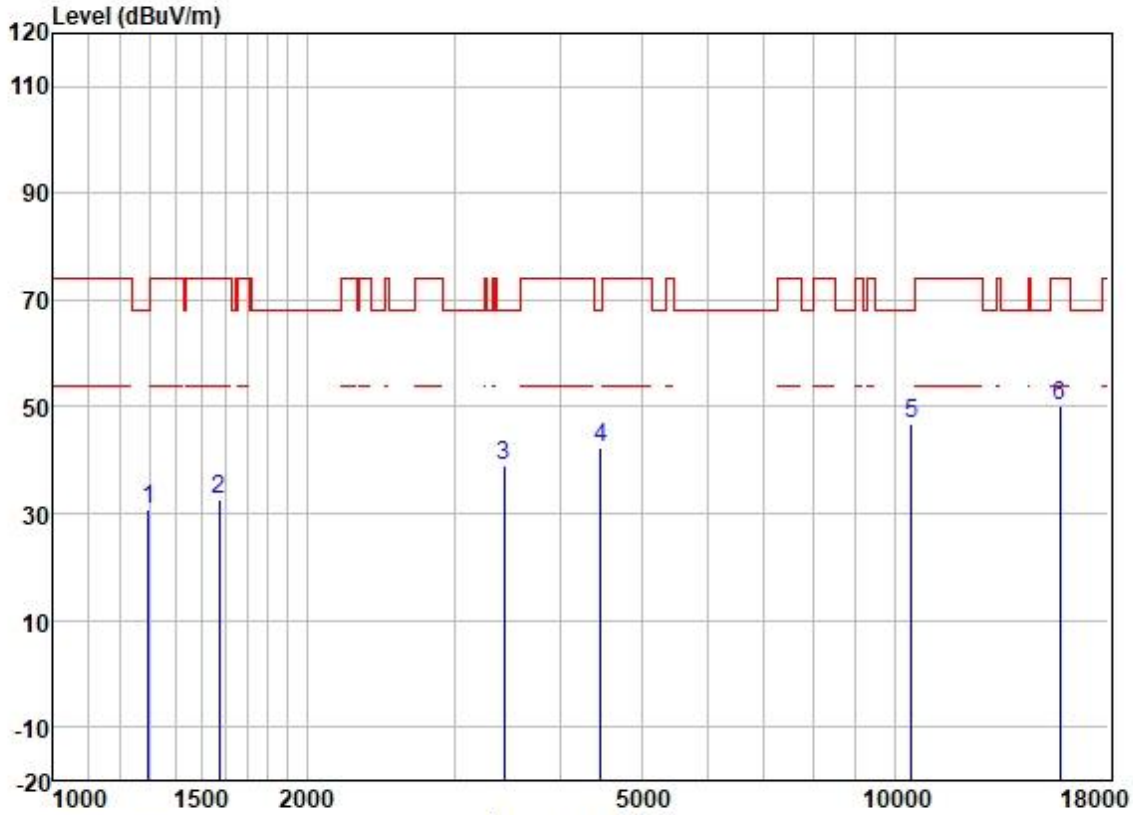
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1129.072	42.30	24.43	2.20	38.43	30.50	74.00	-43.50	VERTICAL	Peak
2	1574.265	42.10	25.56	2.80	38.00	32.46	74.00	-41.54	VERTICAL	Peak
3	3495.691	42.65	28.90	4.30	36.94	38.91	68.20	-29.29	VERTICAL	Peak
4	4469.214	43.20	30.77	4.93	36.81	42.09	68.20	-26.11	VERTICAL	Peak
5	10400.000	37.27	39.33	7.32	37.36	46.56	68.20	-21.64	VERTICAL	Peak
6	15600.000	36.36	38.99	9.88	35.39	49.84	74.00	-24.16	VERTICAL	Peak

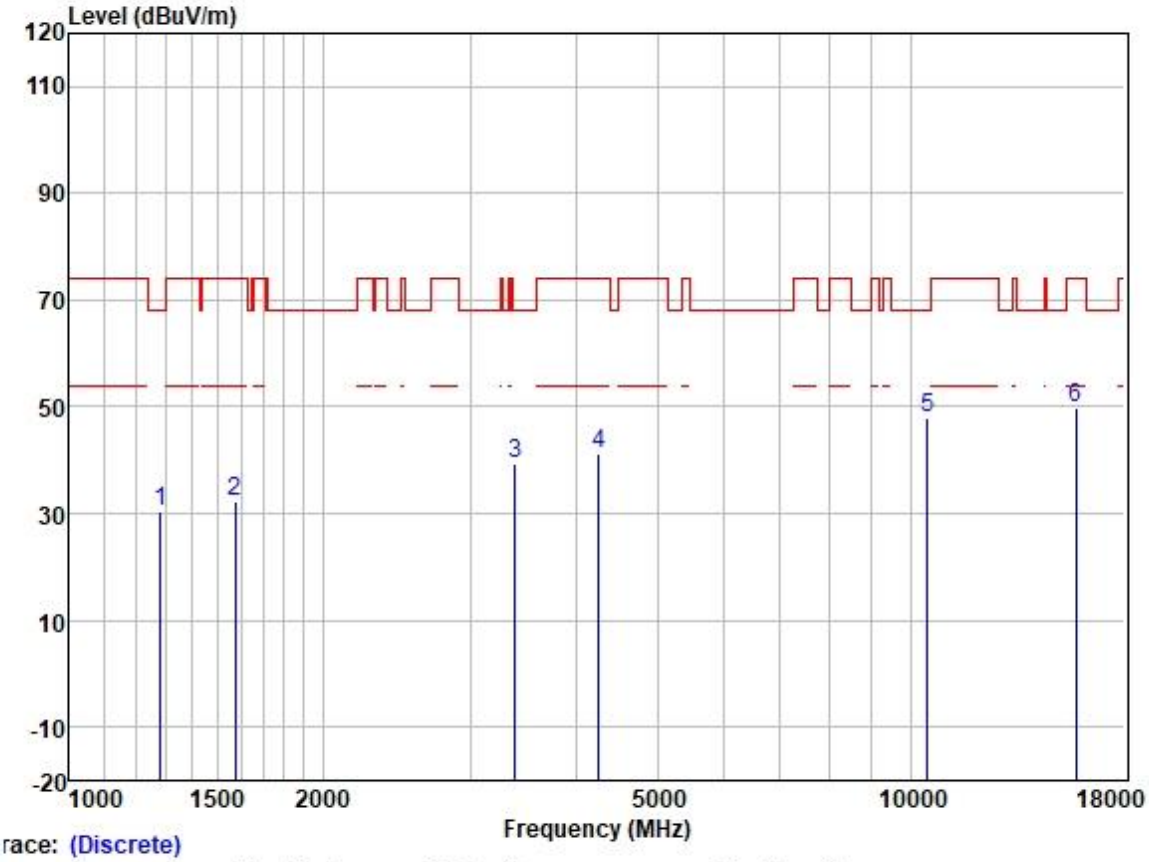
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	41.45	25.19	2.58	38.31	30.91	68.20	-37.29	HORIZONTAL	Peak
2	1574.265	42.25	25.56	2.80	38.00	32.61	74.00	-41.39	HORIZONTAL	Peak
3	3435.590	42.88	28.87	4.16	36.97	38.94	68.20	-29.26	HORIZONTAL	Peak
4	4469.214	43.28	30.77	4.93	36.81	42.17	68.20	-26.03	HORIZONTAL	Peak
5	10480.000	37.48	39.46	7.40	37.36	46.98	68.20	-21.22	HORIZONTAL	Peak
6	15720.000	36.99	38.78	9.87	35.39	50.25	74.00	-23.75	HORIZONTAL	Peak

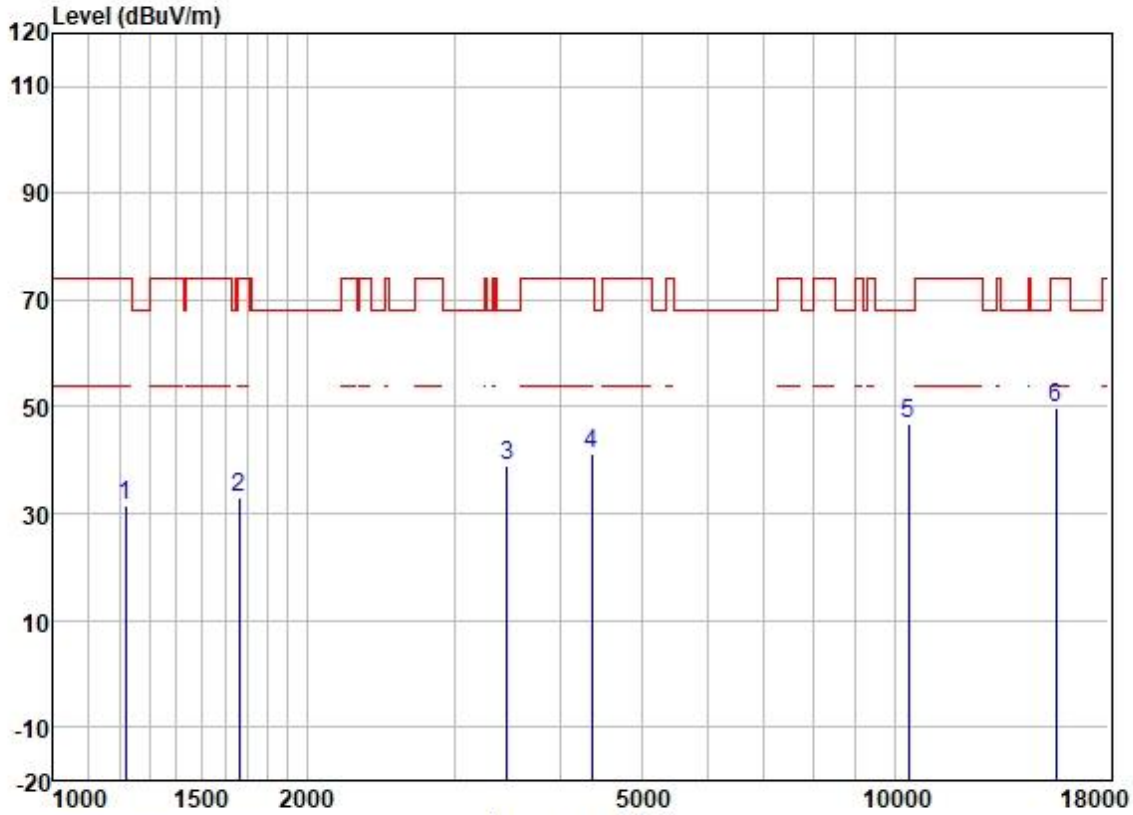
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1282.193	41.00	25.15	2.52	38.33	30.34	68.20	-37.86	VERTICAL	Peak
2	1574.265	41.78	25.56	2.80	38.00	32.14	74.00	-41.86	VERTICAL	Peak
3	3386.297	43.35	28.83	4.10	36.99	39.29	68.20	-28.91	VERTICAL	Peak
4	4254.921	43.19	30.34	4.62	36.81	41.34	74.00	-32.66	VERTICAL	Peak
5	10480.000	38.51	39.46	7.40	37.36	48.01	68.20	-20.19	VERTICAL	Peak
6	15720.000	36.41	38.78	9.87	35.39	49.67	74.00	-24.33	VERTICAL	Peak

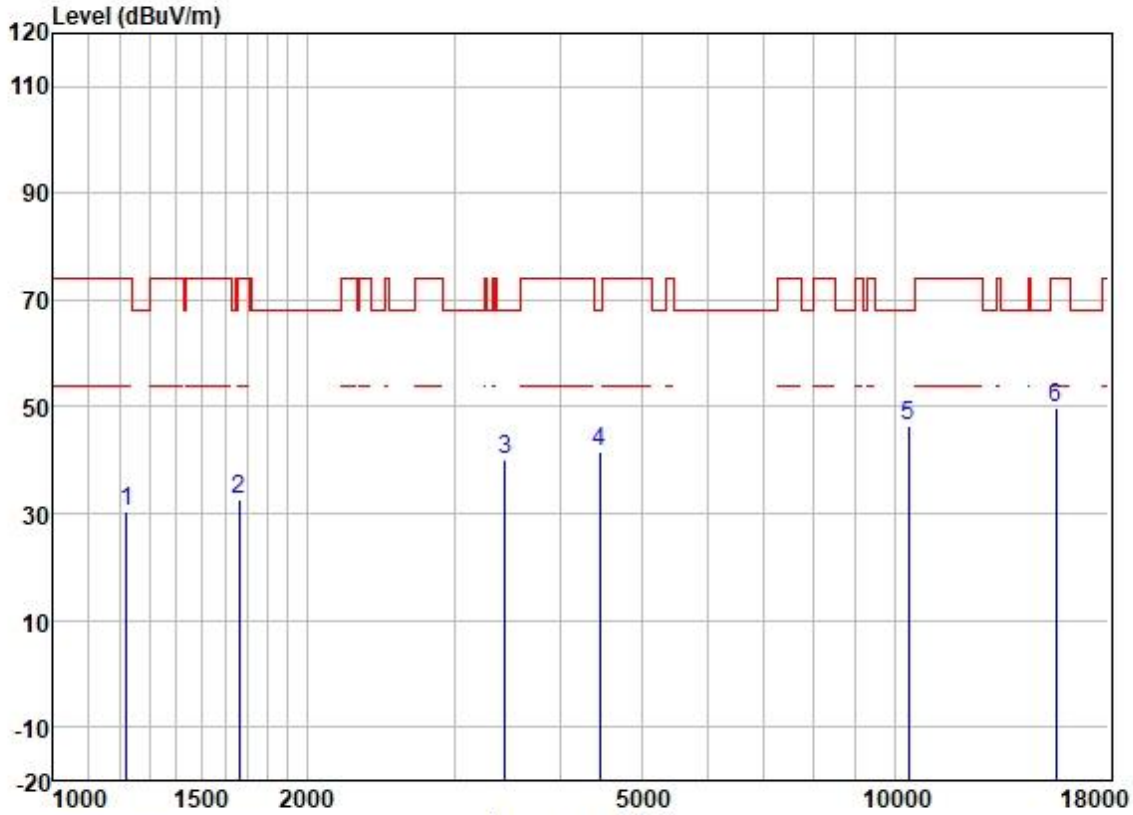
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1217.190	42.75	24.79	2.32	38.37	31.49	74.00	-42.51	HORIZONTAL	Peak
2	1663.137	42.57	25.65	2.80	37.91	33.11	74.00	-40.89	HORIZONTAL	Peak
3	3465.510	42.69	28.88	4.22	36.95	38.84	68.20	-29.36	HORIZONTAL	Peak
4	4367.058	42.90	30.62	4.68	36.81	41.39	74.00	-32.61	HORIZONTAL	Peak
5	10380.000	37.55	39.33	7.32	37.37	46.83	68.20	-21.37	HORIZONTAL	Peak
6	15570.000	36.49	38.99	9.88	35.39	49.97	74.00	-24.03	HORIZONTAL	Peak

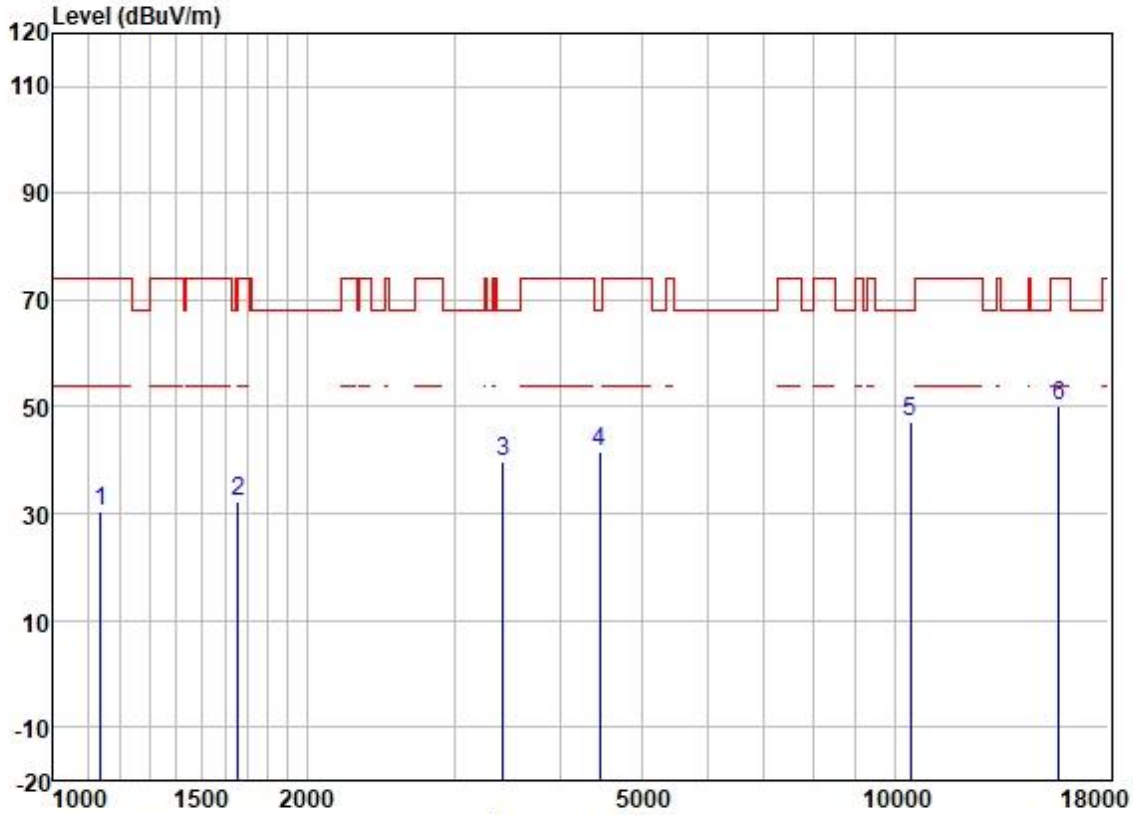
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1220.714	41.63	24.82	2.32	38.37	30.40	74.00	-43.60	VERTICAL	Peak
2	1663.137	41.97	25.65	2.80	37.91	32.51	74.00	-41.49	VERTICAL	Peak
3	3445.535	43.99	28.87	4.18	36.96	40.08	68.20	-28.12	VERTICAL	Peak
4	4456.315	42.63	30.75	4.88	36.81	41.45	68.20	-26.75	VERTICAL	Peak
5	10380.000	37.35	39.33	7.32	37.37	46.63	68.20	-21.57	VERTICAL	Peak
6	15570.000	36.35	38.99	9.88	35.39	49.83	74.00	-24.17	VERTICAL	Peak

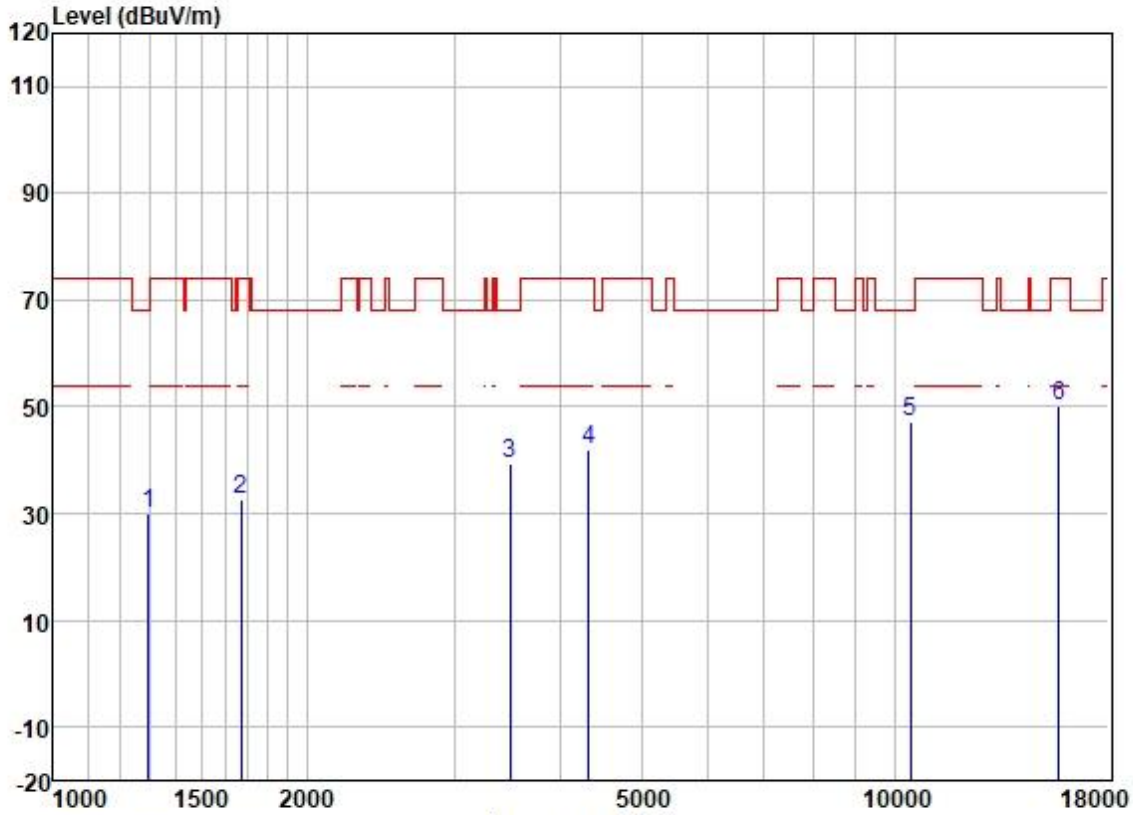
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1138.904	41.92	24.46	2.27	38.42	30.23	74.00	-43.77	HORIZONTAL	Peak
2	1658.337	41.78	25.65	2.80	37.93	32.30	68.20	-35.90	HORIZONTAL	Peak
3	3425.675	43.65	28.86	4.15	36.97	39.69	68.20	-28.51	HORIZONTAL	Peak
4	4456.315	42.62	30.75	4.88	36.81	41.44	68.20	-26.76	HORIZONTAL	Peak
5	10460.000	37.69	39.42	7.37	37.36	47.12	68.20	-21.08	HORIZONTAL	Peak
6	15690.000	37.03	38.86	9.87	35.39	50.37	74.00	-23.63	HORIZONTAL	Peak

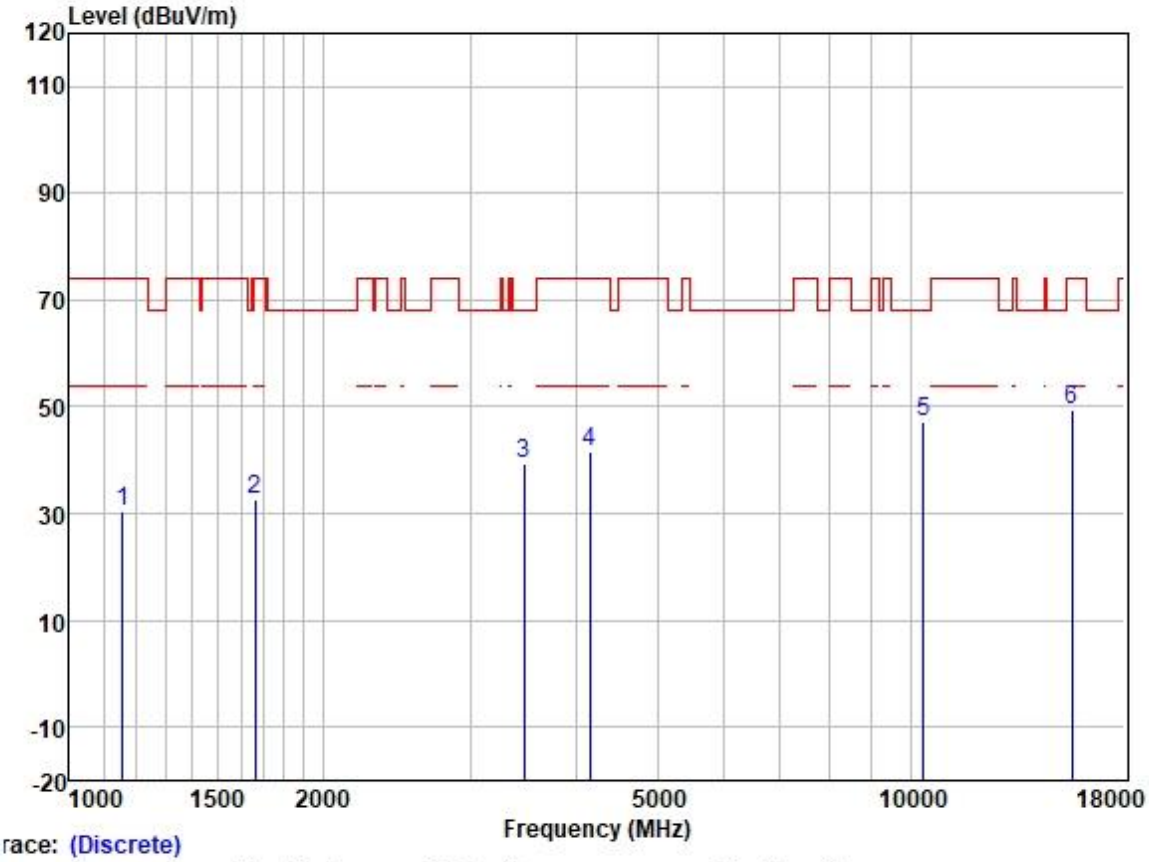
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	40.61	25.19	2.58	38.31	30.07	68.20	-38.13	VERTICAL	Peak
2	1672.779	41.95	25.67	2.80	37.91	32.51	74.00	-41.49	VERTICAL	Peak
3	3495.691	43.28	28.90	4.30	36.94	39.54	68.20	-28.66	VERTICAL	Peak
4	4329.354	43.53	30.54	4.67	36.81	41.93	74.00	-32.07	VERTICAL	Peak
5	10460.000	37.66	39.42	7.37	37.36	47.09	68.20	-21.11	VERTICAL	Peak
6	15690.000	36.79	38.86	9.87	35.39	50.13	74.00	-23.87	VERTICAL	Peak

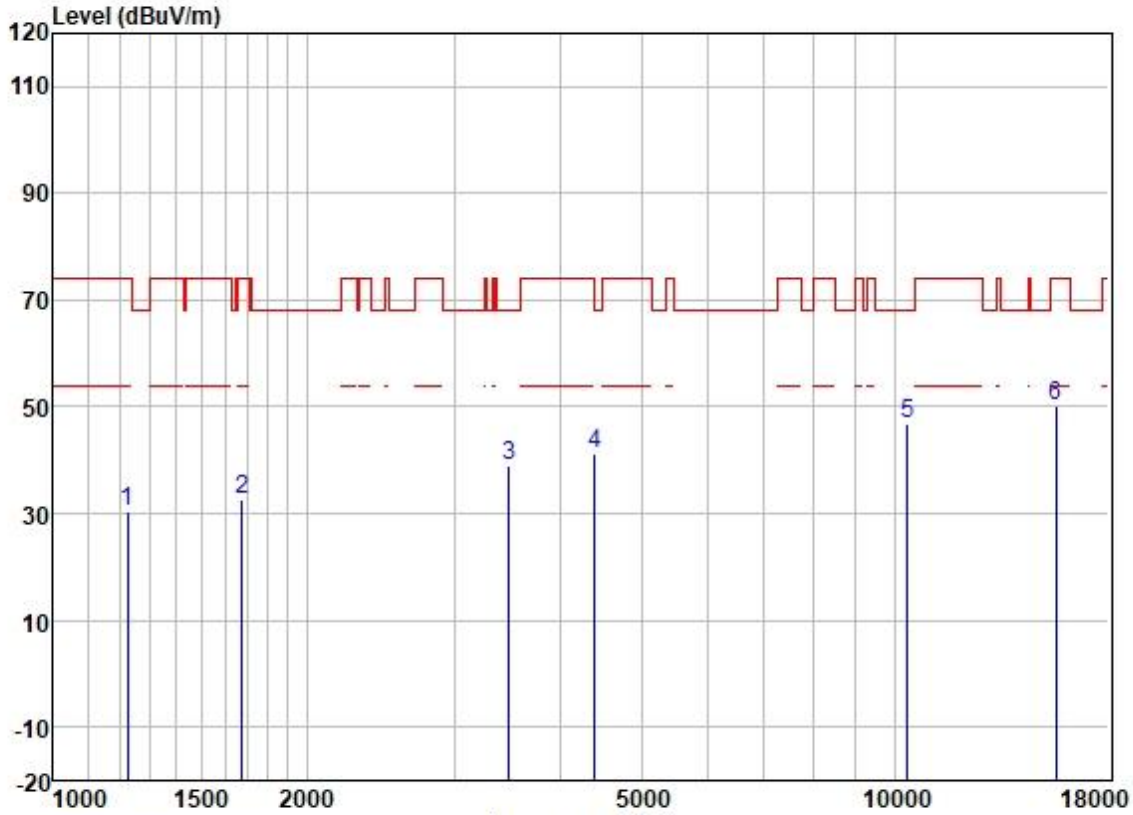
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1155.483	41.99	24.51	2.38	38.42	30.46	74.00	-43.54	HORIZONTAL	Peak
2	1663.137	42.01	25.65	2.80	37.91	32.55	74.00	-41.45	HORIZONTAL	Peak
3	3475.541	43.01	28.89	4.25	36.95	39.20	68.20	-29.00	HORIZONTAL	Peak
4	4157.664	43.84	30.06	4.60	36.80	41.70	74.00	-32.30	HORIZONTAL	Peak
5	10360.000	37.85	39.28	7.29	37.37	47.05	68.20	-21.15	HORIZONTAL	Peak
6	15540.000	35.92	39.05	9.88	35.39	49.46	74.00	-24.54	HORIZONTAL	Peak

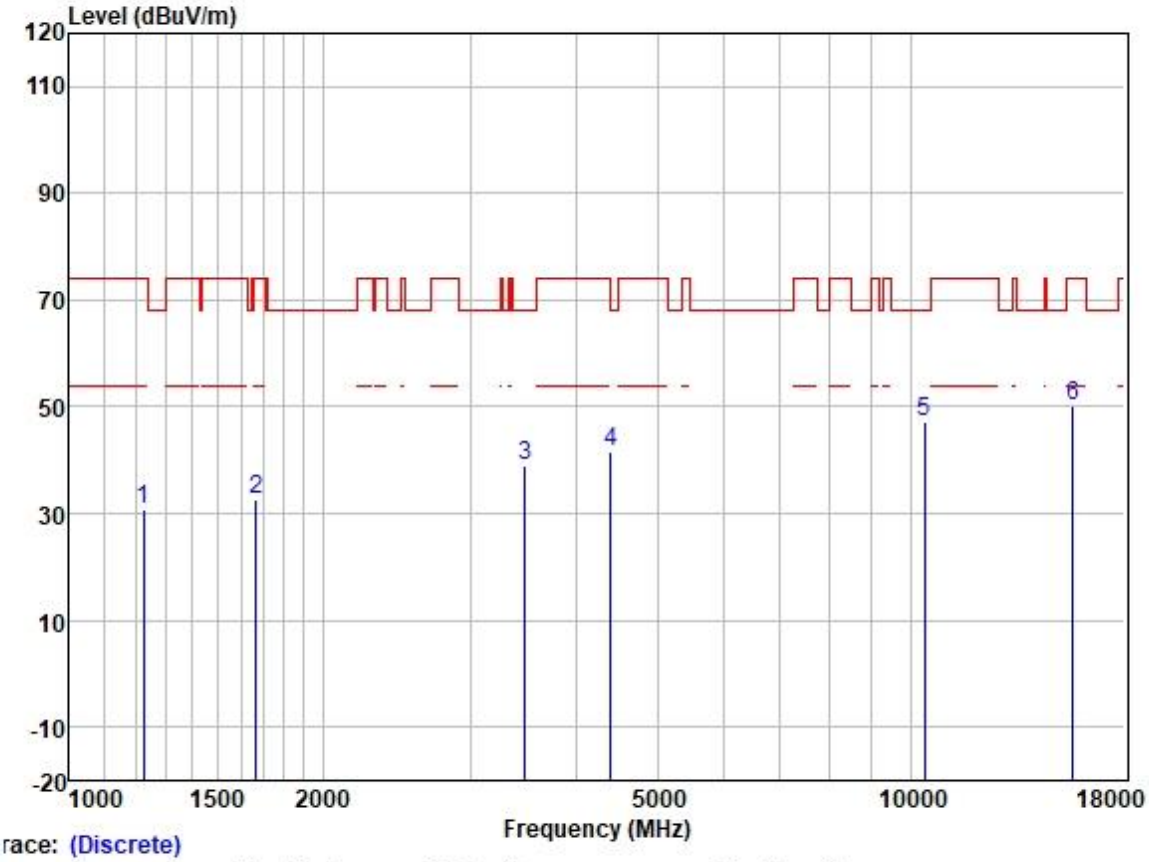
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1224.247	41.74	24.85	2.31	38.37	30.53	74.00	-43.47	VERTICAL	Peak
2	1677.621	41.98	25.68	2.80	37.91	32.55	74.00	-41.45	VERTICAL	Peak
3	3485.601	42.81	28.89	4.27	36.95	39.02	68.20	-29.18	VERTICAL	Peak
4	4405.090	42.83	30.68	4.70	36.81	41.40	68.20	-26.80	VERTICAL	Peak
5	10360.000	37.51	39.28	7.29	37.37	46.71	68.20	-21.49	VERTICAL	Peak
6	15540.000	36.50	39.05	9.88	35.39	50.04	74.00	-23.96	VERTICAL	Peak

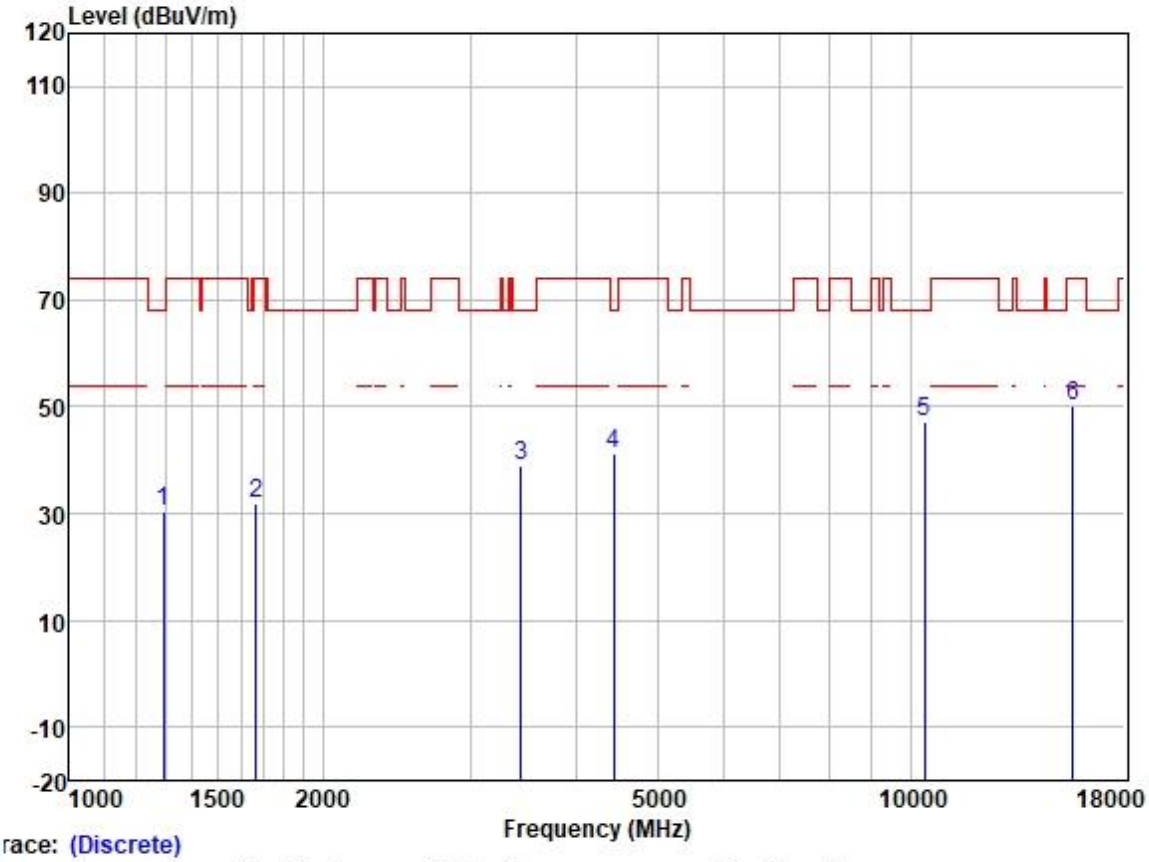
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1224.247	41.83	24.85	2.31	38.37	30.62	74.00	-43.38	HORIZONTAL	Peak
2	1667.951	42.24	25.66	2.80	37.91	32.79	74.00	-41.21	HORIZONTAL	Peak
3	3485.601	42.69	28.89	4.27	36.95	38.90	68.20	-29.30	HORIZONTAL	Peak
4	4405.090	43.05	30.68	4.70	36.81	41.62	68.20	-26.58	HORIZONTAL	Peak
5	10400.000	37.80	39.33	7.32	37.36	47.09	68.20	-21.11	HORIZONTAL	Peak
6	15600.000	36.69	38.99	9.88	35.39	50.17	74.00	-23.83	HORIZONTAL	Peak

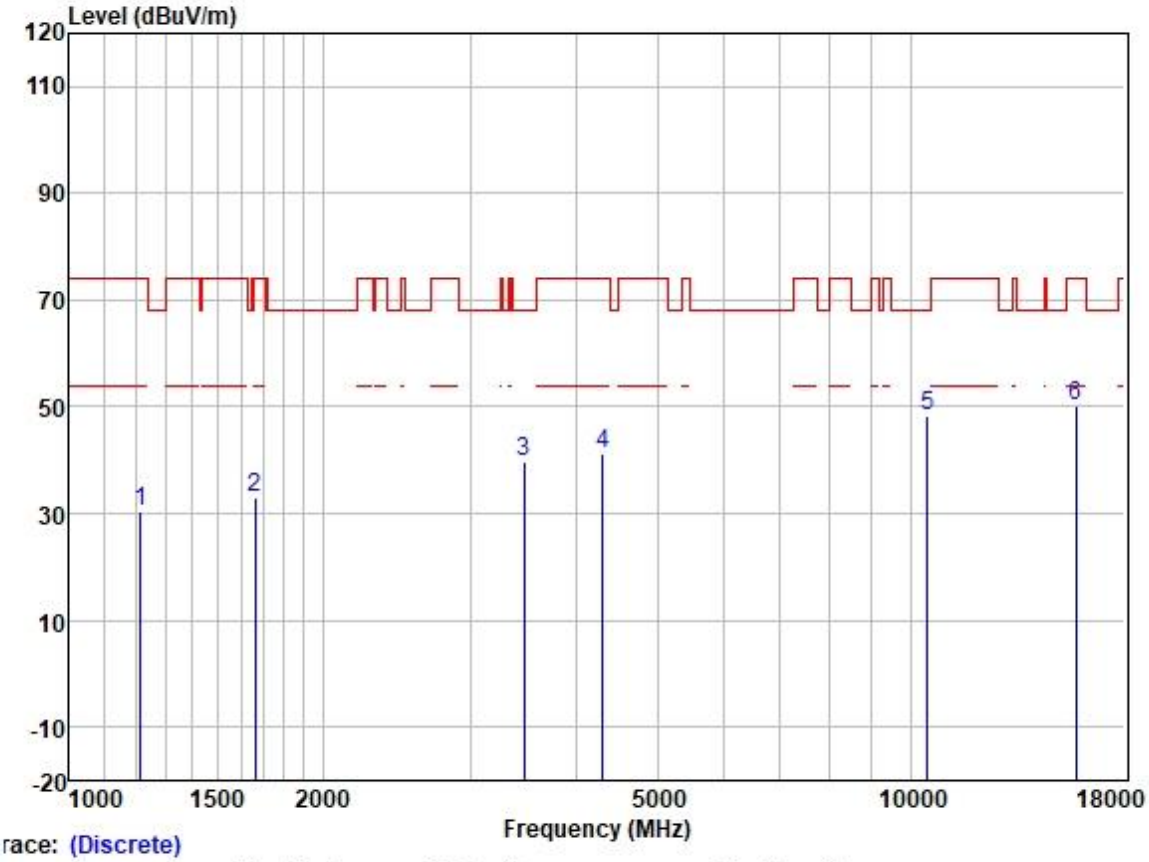
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1293.359	40.84	25.18	2.57	38.31	30.28	68.20	-37.92	VERTICAL	Peak
2	1667.951	41.25	25.66	2.80	37.91	31.80	74.00	-42.20	VERTICAL	Peak
3	3445.535	42.96	28.87	4.18	36.96	39.05	68.20	-29.15	VERTICAL	Peak
4	4443.453	42.64	30.73	4.83	36.81	41.39	68.20	-26.81	VERTICAL	Peak
5	10400.000	38.05	39.33	7.32	37.36	47.34	68.20	-20.86	VERTICAL	Peak
6	15600.000	36.56	38.99	9.88	35.39	50.04	74.00	-23.96	VERTICAL	Peak

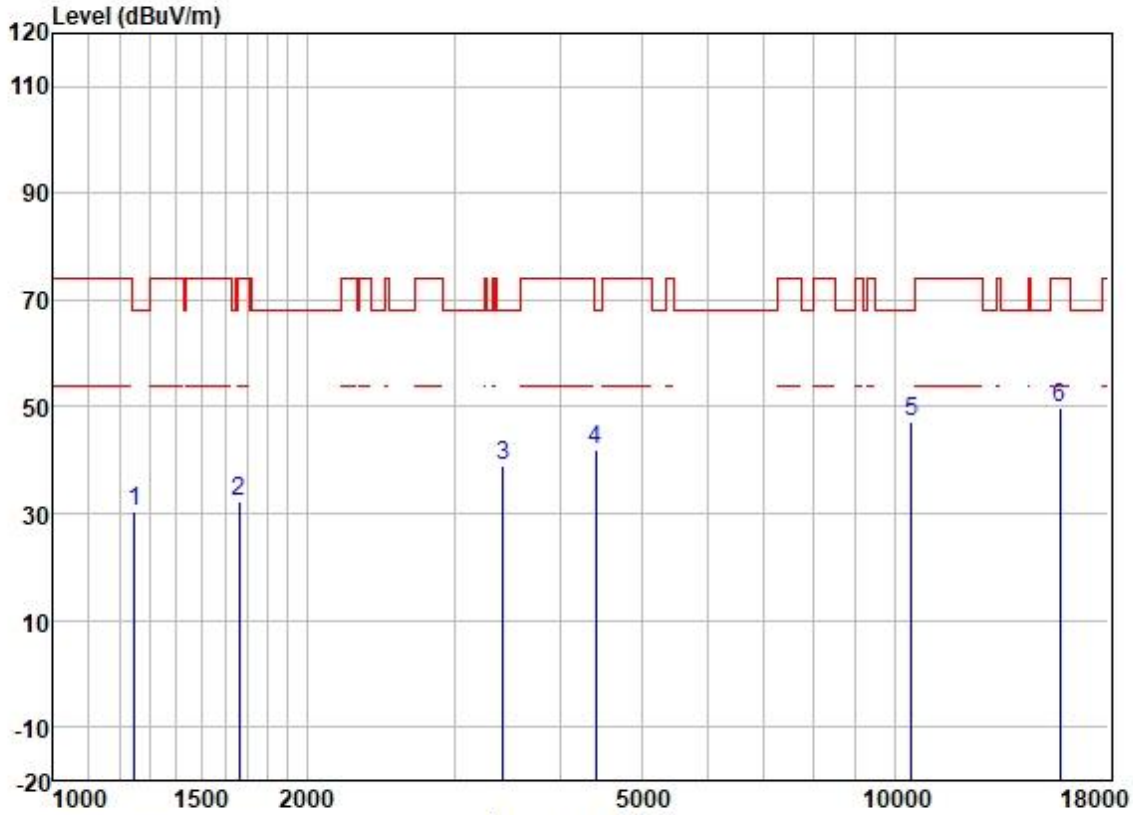
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1213.677	41.65	24.77	2.32	38.37	30.37	74.00	-43.63	HORIZONTAL	Peak
2	1663.137	42.37	25.65	2.80	37.91	32.91	74.00	-41.09	HORIZONTAL	Peak
3	3475.541	43.51	28.89	4.25	36.95	39.70	68.20	-28.50	HORIZONTAL	Peak
4	4304.400	43.05	30.48	4.65	36.81	41.37	74.00	-32.63	HORIZONTAL	Peak
5	10480.000	38.68	39.46	7.40	37.36	48.18	68.20	-20.02	HORIZONTAL	Peak
6	15720.000	36.95	38.78	9.87	35.39	50.21	74.00	-23.79	HORIZONTAL	Peak

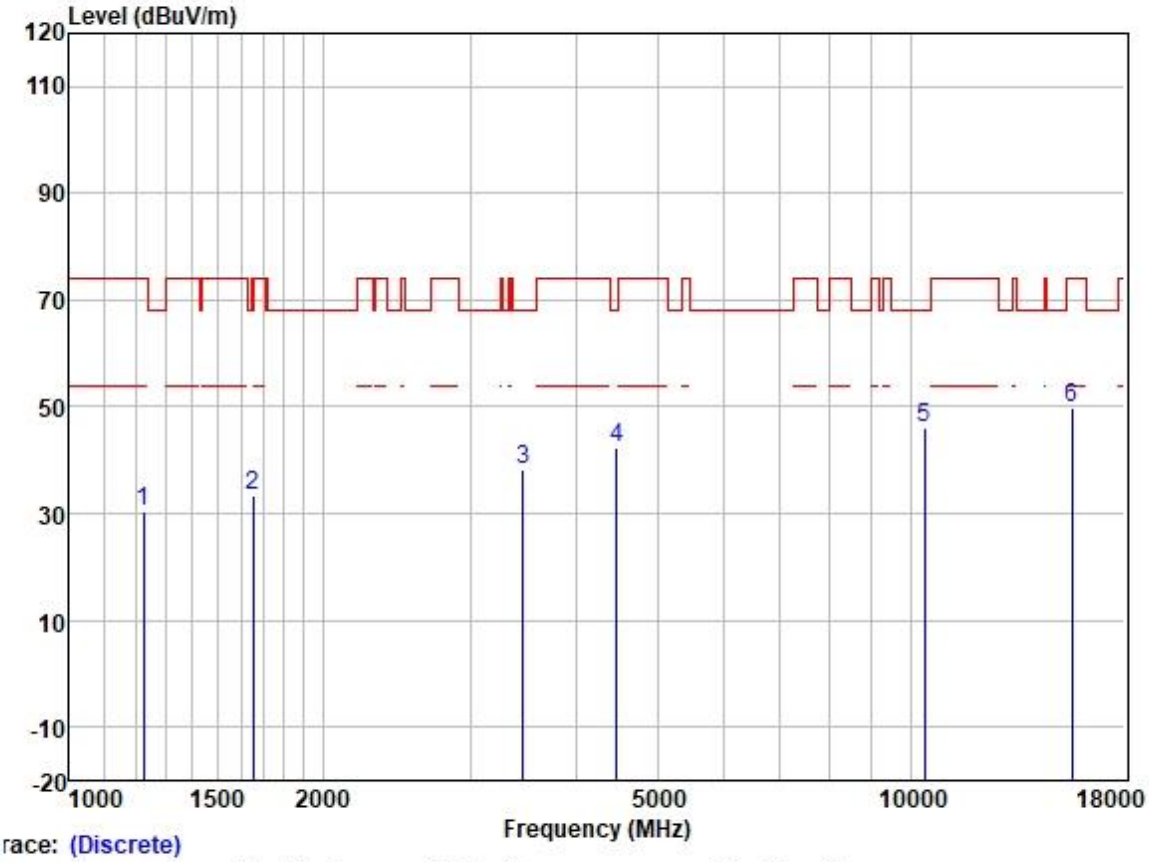
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1249.269	41.27	25.02	2.34	38.35	30.28	68.20	-37.92	VERTICAL	Peak
2	1663.137	41.67	25.65	2.80	37.91	32.21	74.00	-41.79	VERTICAL	Peak
3	3425.675	42.78	28.86	4.15	36.97	38.82	68.20	-29.38	VERTICAL	Peak
4	4417.841	43.23	30.70	4.74	36.81	41.86	68.20	-26.34	VERTICAL	Peak
5	10480.000	37.58	39.46	7.40	37.36	47.08	68.20	-21.12	VERTICAL	Peak
6	15720.000	36.49	38.78	9.87	35.39	49.75	74.00	-24.25	VERTICAL	Peak

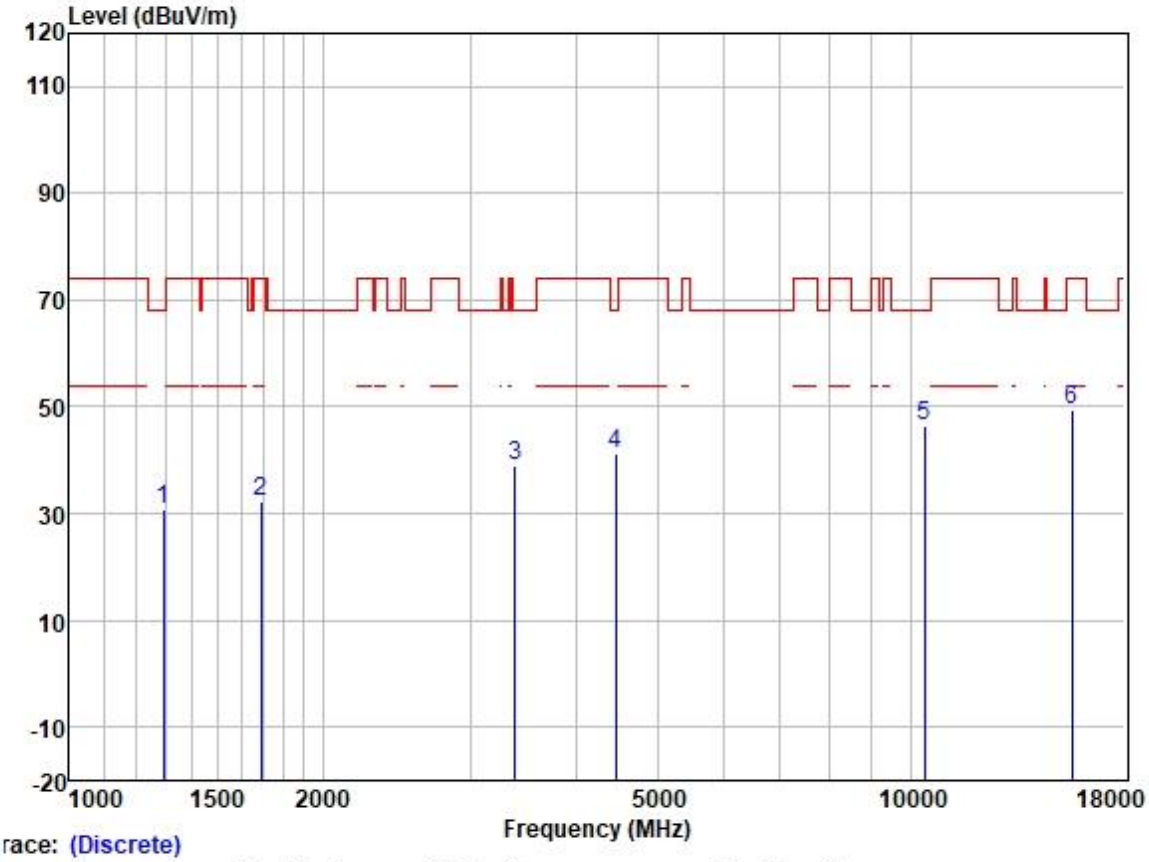
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1224.247	41.68	24.85	2.31	38.37	30.47	74.00	-43.53	HORIZONTAL	Peak
2	1653.550	42.79	25.64	2.80	37.93	33.30	68.20	-34.90	HORIZONTAL	Peak
3	3465.510	42.27	28.88	4.22	36.95	38.42	68.20	-29.78	HORIZONTAL	Peak
4	4469.214	43.40	30.77	4.93	36.81	42.29	68.20	-25.91	HORIZONTAL	Peak
5	10380.000	36.82	39.33	7.32	37.37	46.10	68.20	-22.10	HORIZONTAL	Peak
6	15570.000	36.44	38.99	9.88	35.39	49.92	74.00	-24.08	HORIZONTAL	Peak

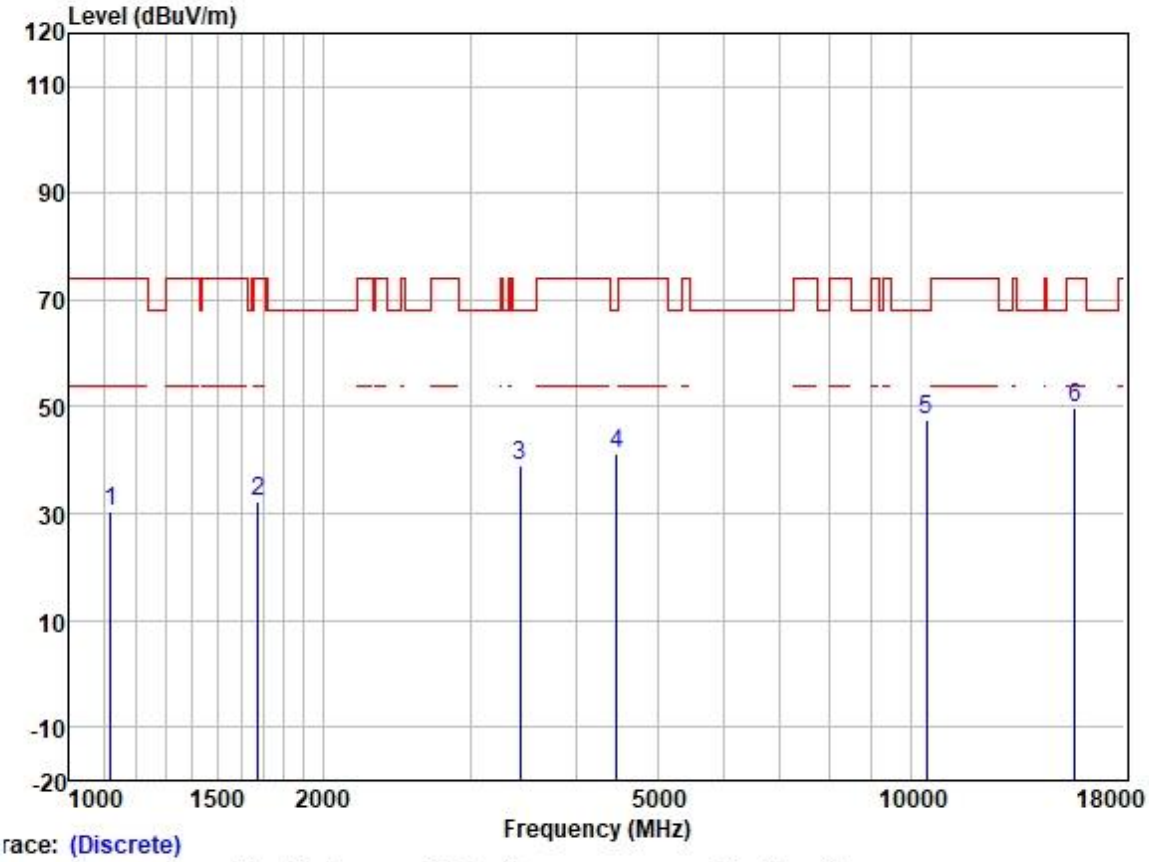
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1293.359	41.28	25.18	2.57	38.31	30.72	68.20	-37.48	VERTICAL	Peak
2	1692.231	41.74	25.70	2.80	37.89	32.35	74.00	-41.65	VERTICAL	Peak
3	3386.297	43.06	28.83	4.10	36.99	39.00	68.20	-29.20	VERTICAL	Peak
4	4456.315	42.27	30.75	4.88	36.81	41.09	68.20	-27.11	VERTICAL	Peak
5	10380.000	37.25	39.33	7.32	37.37	46.53	68.20	-21.67	VERTICAL	Peak
6	15570.000	35.98	38.99	9.88	35.39	49.46	74.00	-24.54	VERTICAL	Peak

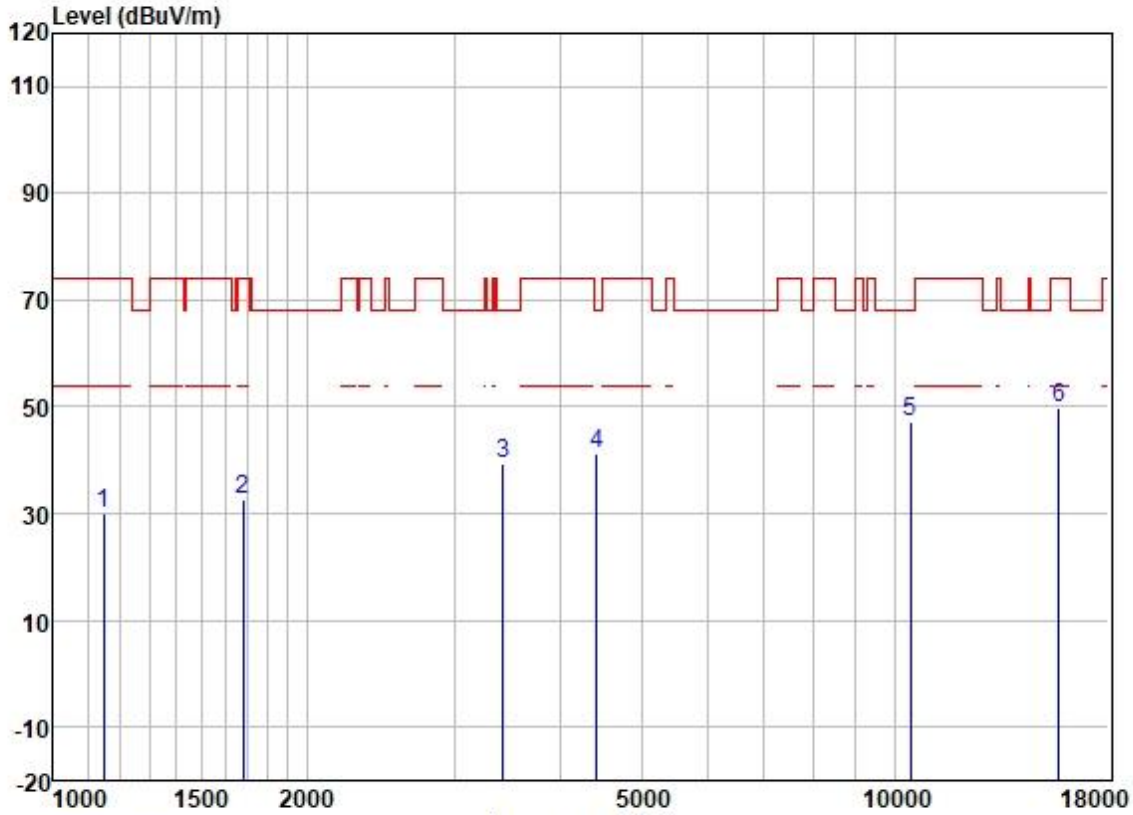
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1119.323	42.05	24.41	2.24	38.43	30.27	74.00	-43.73	HORIZONTAL	Peak
2	1677.621	41.55	25.68	2.80	37.91	32.12	74.00	-41.88	HORIZONTAL	Peak
3	3435.590	42.80	28.87	4.16	36.97	38.86	68.20	-29.34	HORIZONTAL	Peak
4	4469.214	42.20	30.77	4.93	36.81	41.09	68.20	-27.11	HORIZONTAL	Peak
5	10460.000	38.02	39.42	7.37	37.36	47.45	68.20	-20.75	HORIZONTAL	Peak
6	15690.000	36.40	38.86	9.87	35.39	49.74	74.00	-24.26	HORIZONTAL	Peak

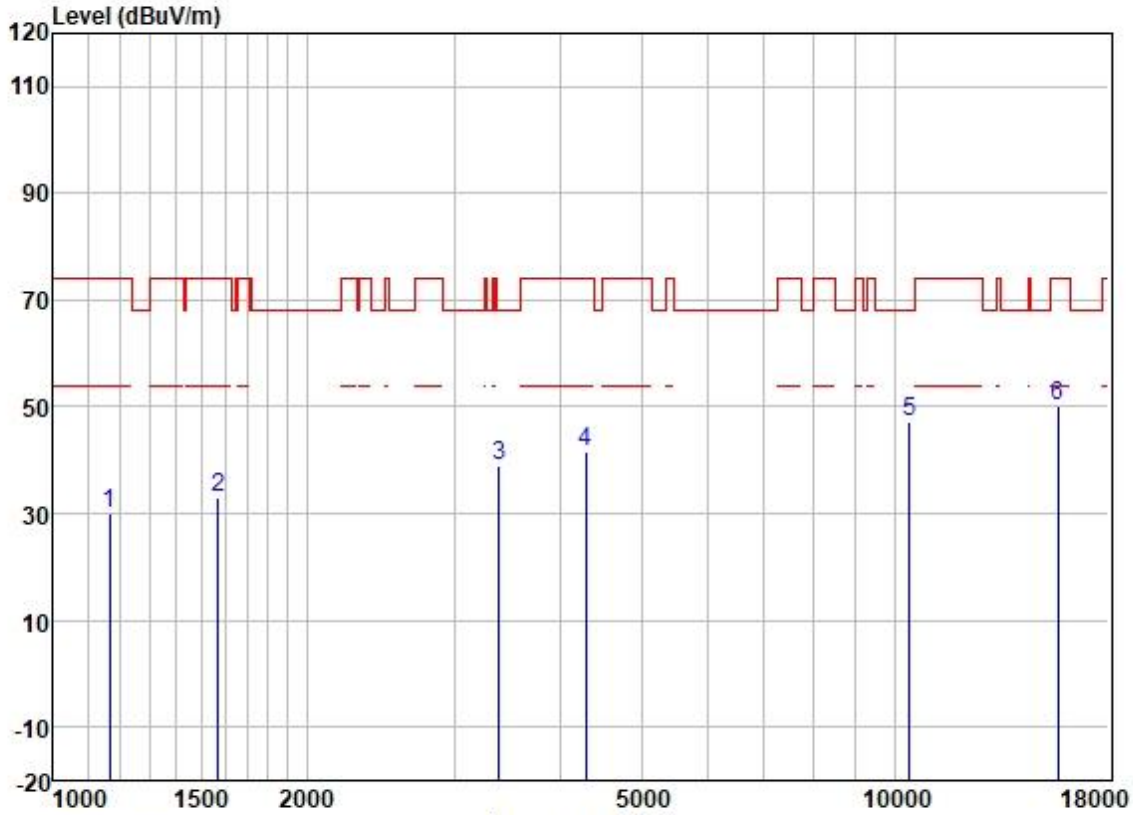
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1148.823	41.63	24.49	2.34	38.42	30.04	74.00	-43.96	VERTICAL	Peak
2	1682.477	41.90	25.68	2.80	37.91	32.47	74.00	-41.53	VERTICAL	Peak
3	3425.675	43.18	28.86	4.15	36.97	39.22	68.20	-28.98	VERTICAL	Peak
4	4430.628	42.53	30.72	4.78	36.81	41.22	68.20	-26.98	VERTICAL	Peak
5	10460.000	37.94	39.42	7.37	37.36	47.37	68.20	-20.83	VERTICAL	Peak
6	15690.000	36.61	38.86	9.87	35.39	49.95	74.00	-24.05	VERTICAL	Peak

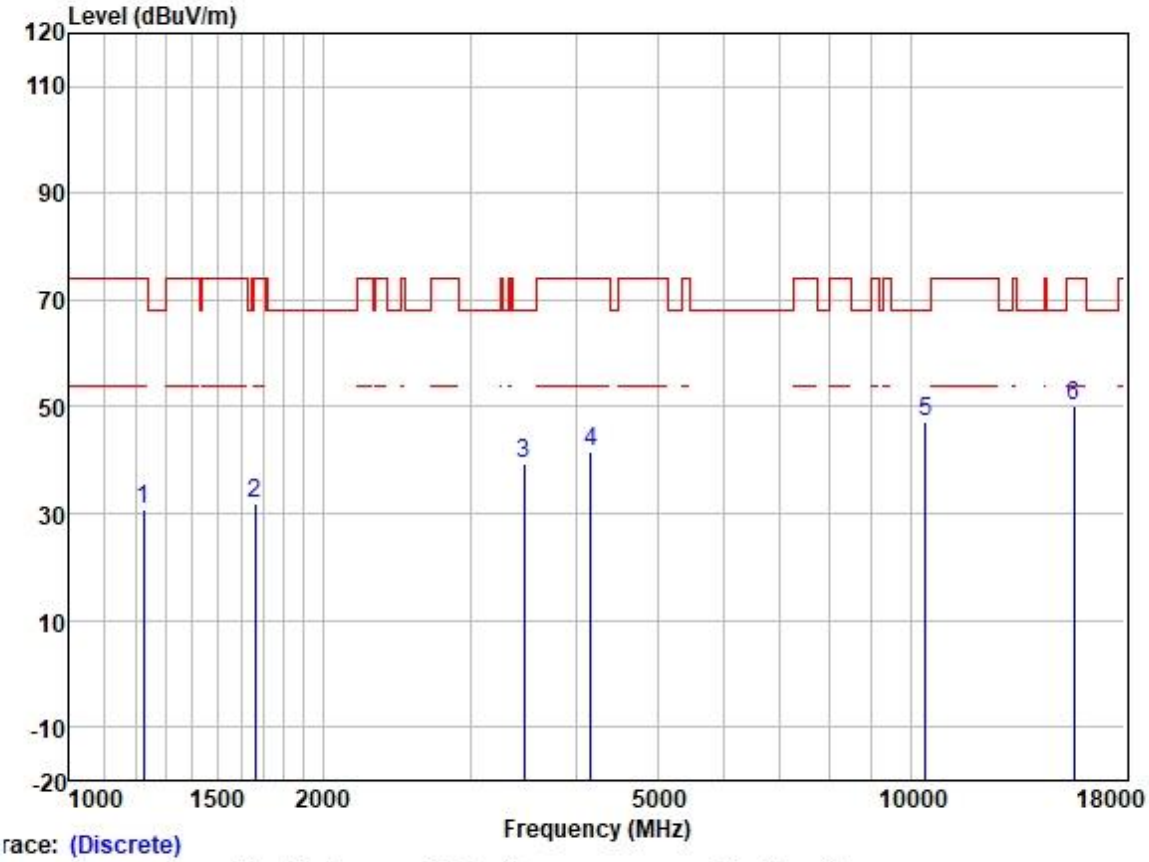
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1165.546	41.57	24.54	2.39	38.40	30.10	74.00	-43.90	HORIZONTAL	Peak
2	1569.721	42.65	25.55	2.80	38.00	33.00	74.00	-41.00	HORIZONTAL	Peak
3	3386.297	43.21	28.83	4.10	36.99	39.15	68.20	-29.05	HORIZONTAL	Peak
4	4291.977	43.28	30.45	4.64	36.81	41.56	74.00	-32.44	HORIZONTAL	Peak
5	10420.000	37.68	39.38	7.35	37.36	47.05	68.20	-21.15	HORIZONTAL	Peak
6	15630.000	36.82	38.92	9.87	35.39	50.22	74.00	-23.78	HORIZONTAL	Peak

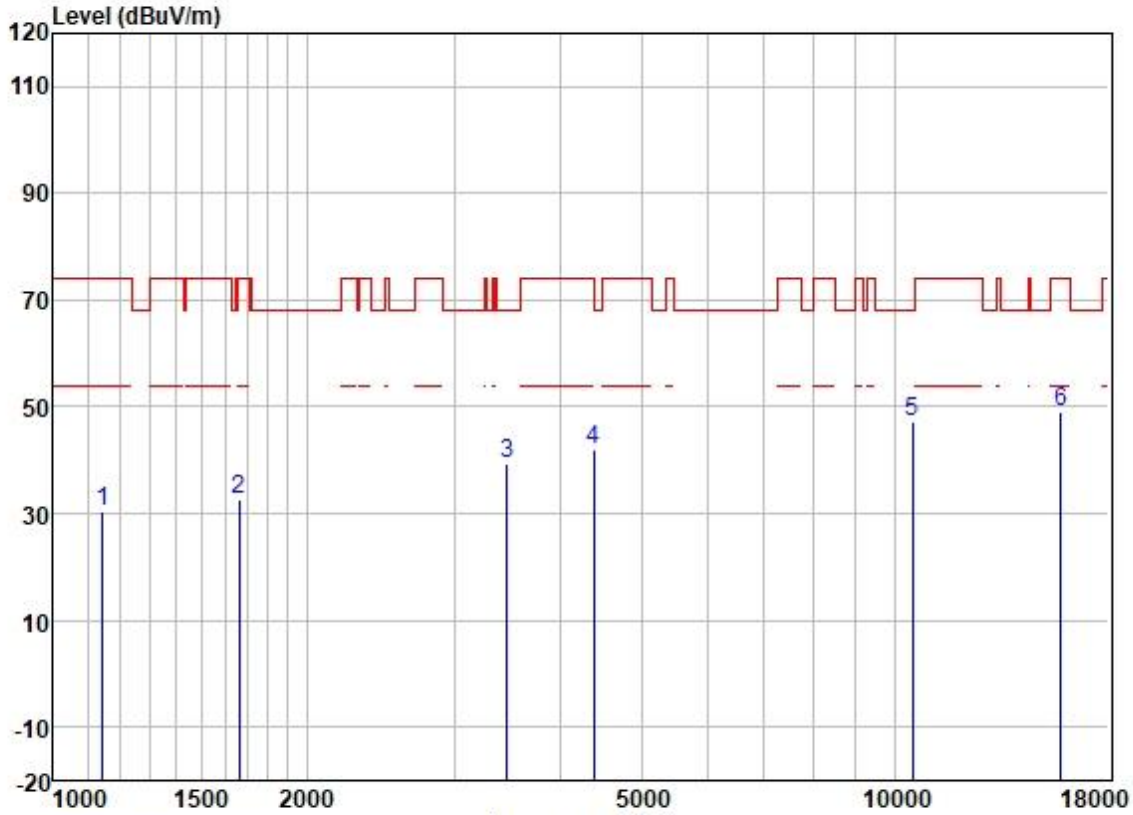
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1224.247	41.85	24.85	2.31	38.37	30.64	74.00	-43.36	VERTICAL	Peak
2	1663.137	41.49	25.65	2.80	37.91	32.03	74.00	-41.97	VERTICAL	Peak
3	3475.541	43.09	28.89	4.25	36.95	39.28	68.20	-28.92	VERTICAL	Peak
4	4169.698	43.62	30.09	4.60	36.80	41.51	74.00	-32.49	VERTICAL	Peak
5	10420.000	37.85	39.38	7.35	37.36	47.22	68.20	-20.98	VERTICAL	Peak
6	15630.000	36.95	38.92	9.87	35.39	50.35	74.00	-23.65	VERTICAL	Peak

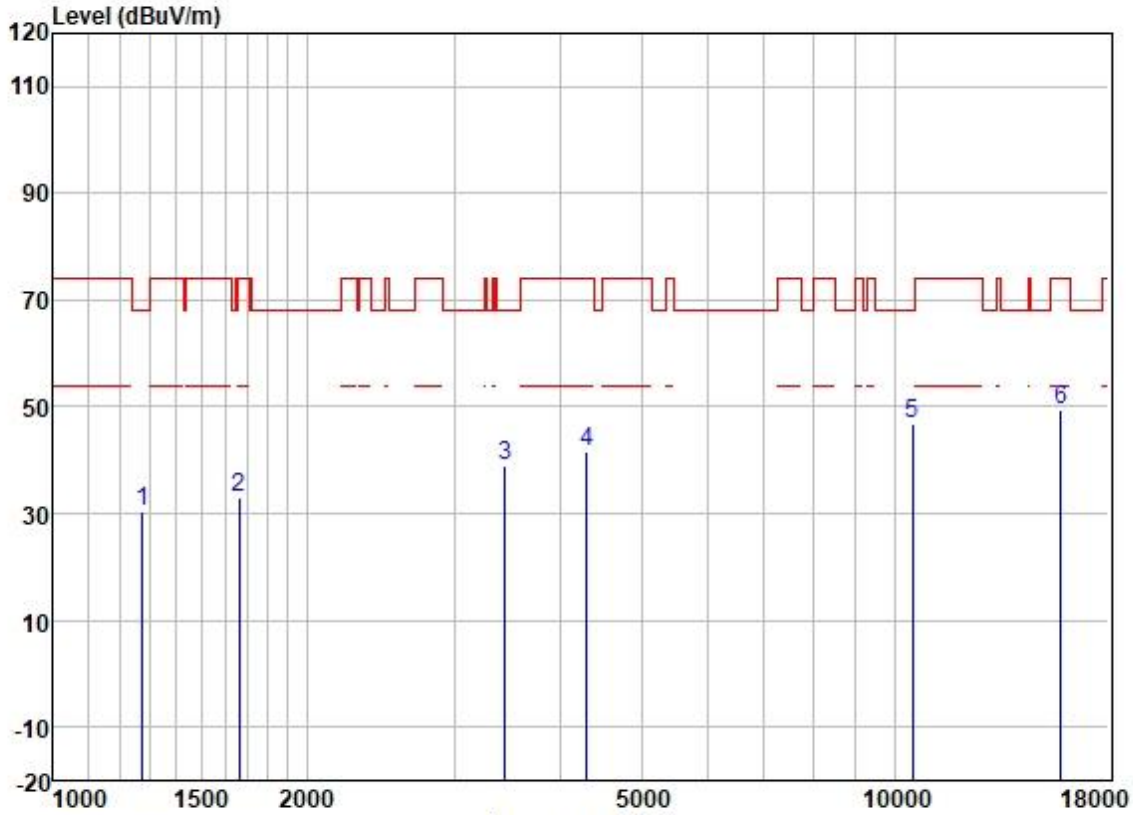
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1145.507	41.89	24.48	2.32	38.42	30.27	74.00	-43.73	HORIZONTAL	Peak
2	1663.137	42.18	25.65	2.80	37.91	32.72	74.00	-41.28	HORIZONTAL	Peak
3	3465.510	43.31	28.88	4.22	36.95	39.46	68.20	-28.74	HORIZONTAL	Peak
4	4392.376	43.40	30.66	4.70	36.81	41.95	74.00	-32.05	HORIZONTAL	Peak
5	10520.000	37.67	39.50	7.42	37.35	47.24	68.20	-20.96	HORIZONTAL	Peak
6	15780.000	35.89	38.70	9.86	35.39	49.06	74.00	-24.94	HORIZONTAL	Peak

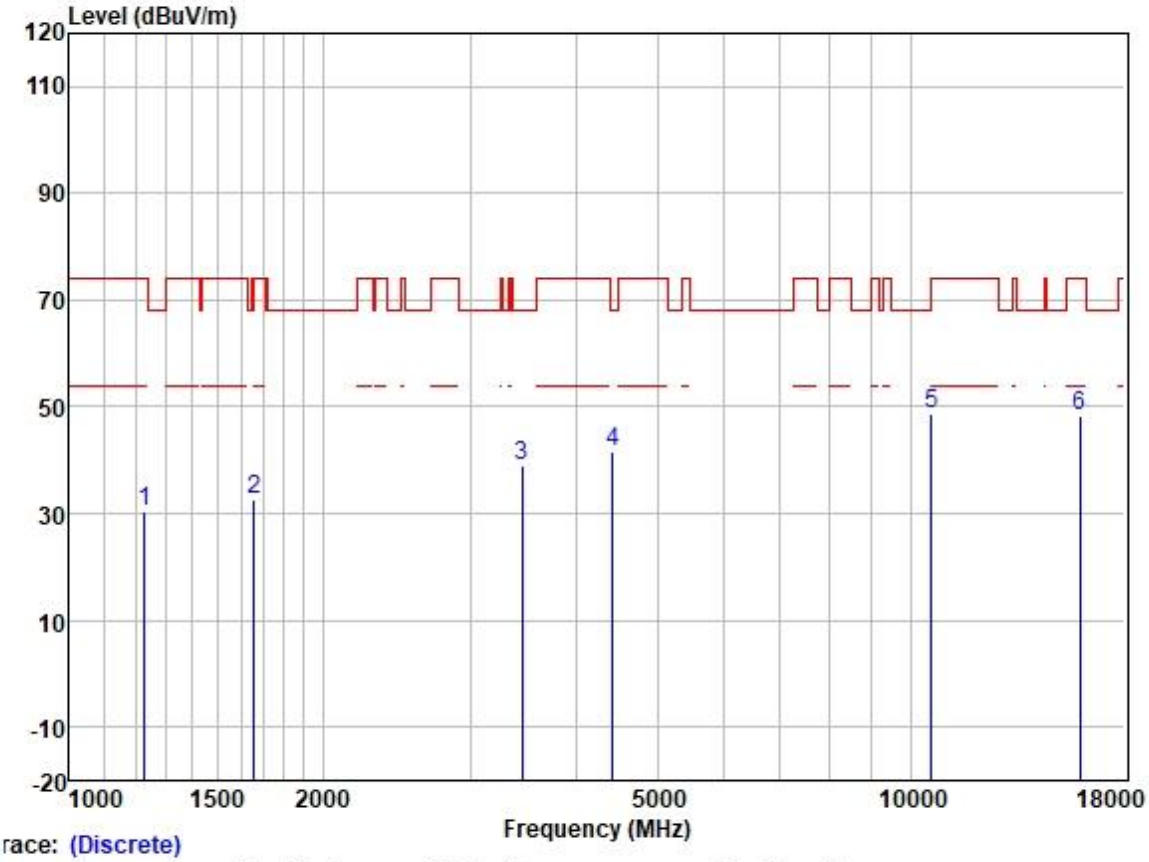
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1274.802	41.05	25.12	2.48	38.33	30.32	68.20	-37.88	VERTICAL	Peak
2	1663.137	42.32	25.65	2.80	37.91	32.86	74.00	-41.14	VERTICAL	Peak
3	3445.535	43.07	28.87	4.18	36.96	39.16	68.20	-29.04	VERTICAL	Peak
4	4304.400	43.39	30.48	4.65	36.81	41.71	74.00	-32.29	VERTICAL	Peak
5	10520.000	37.23	39.50	7.42	37.35	46.80	68.20	-21.40	VERTICAL	Peak
6	15780.000	36.30	38.70	9.86	35.39	49.47	74.00	-24.53	VERTICAL	Peak

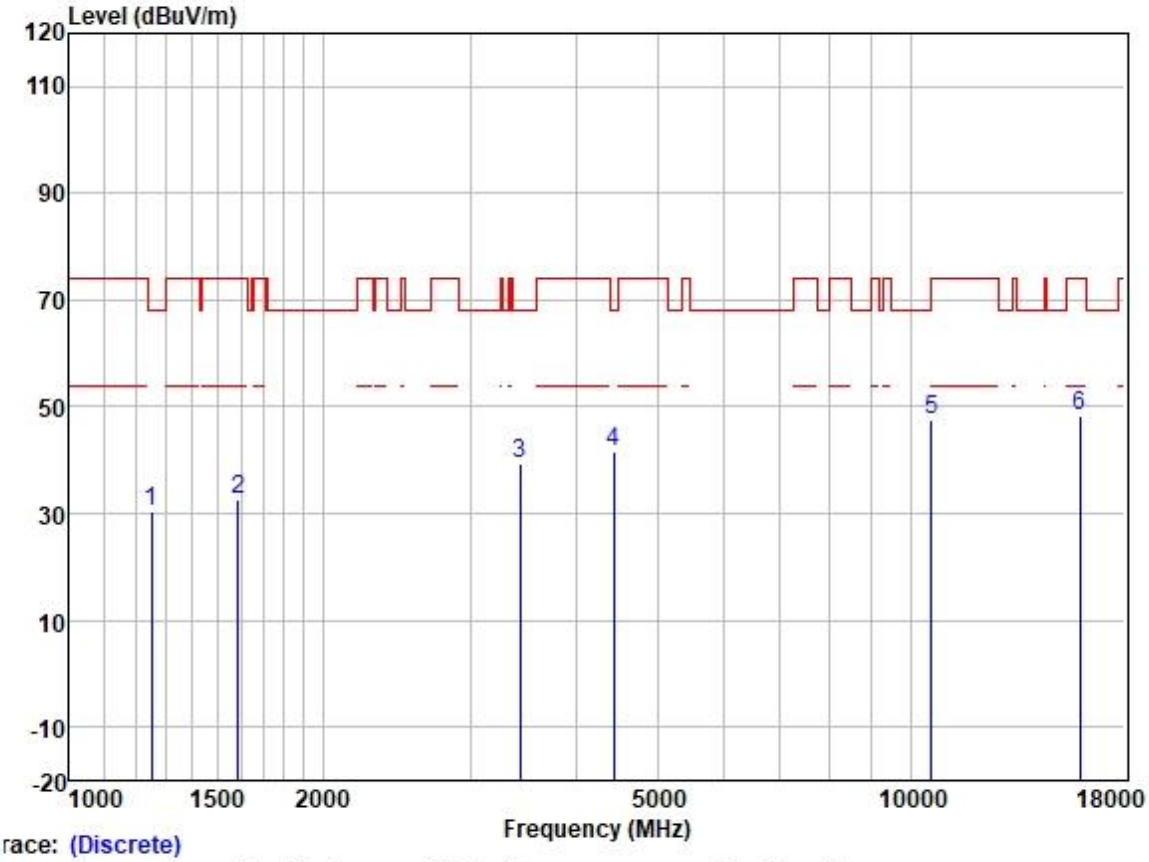
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1227.791	41.54	24.88	2.31	38.37	30.36	74.00	-43.64	HORIZONTAL	Peak
2	1658.337	42.07	25.65	2.80	37.93	32.59	68.20	-35.61	HORIZONTAL	Peak
3	3455.508	42.95	28.88	4.20	36.96	39.07	68.20	-29.13	HORIZONTAL	Peak
4	4430.628	42.96	30.72	4.78	36.81	41.65	68.20	-26.55	HORIZONTAL	Peak
5	10600.000	39.08	39.59	7.46	37.34	48.79	68.20	-19.41	HORIZONTAL	Peak
6	15900.000	35.37	38.44	9.86	35.40	48.27	74.00	-25.73	HORIZONTAL	Peak

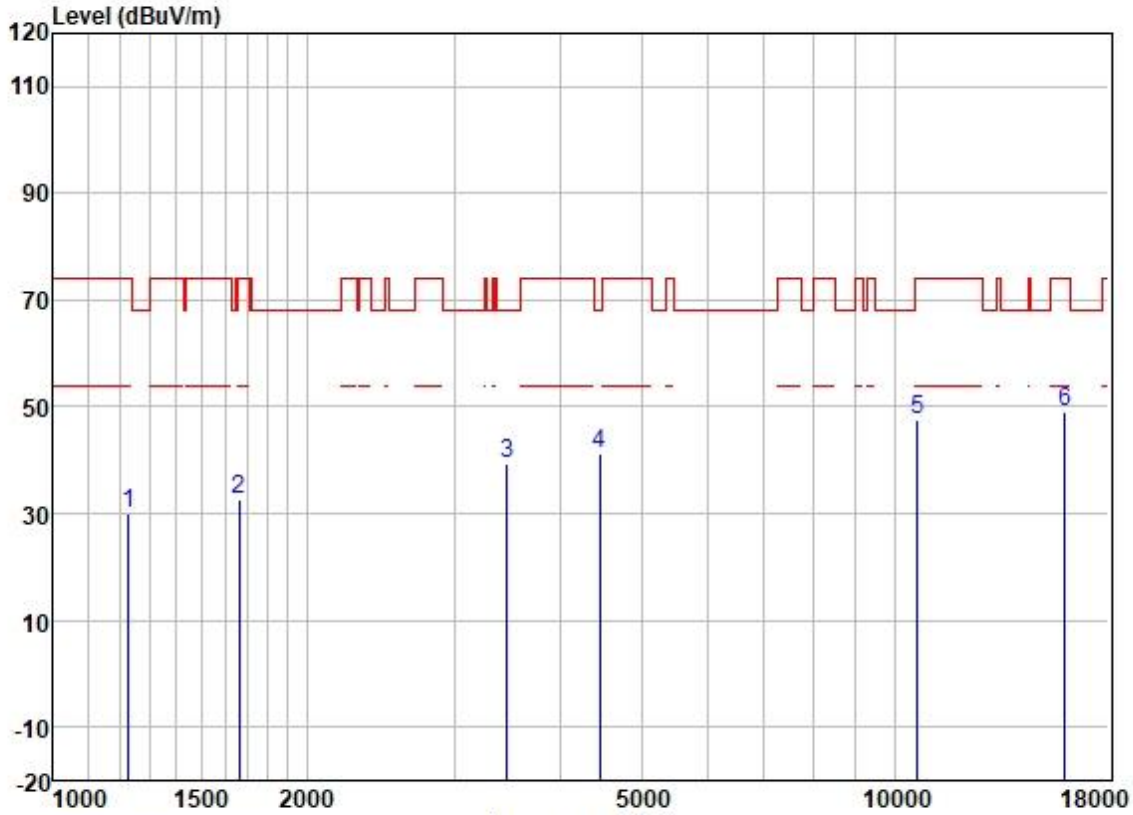
Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1252.885	41.26	25.03	2.36	38.35	30.30	68.20	-37.90	VERTICAL	Peak
2	1587.975	42.11	25.57	2.80	37.98	32.50	74.00	-41.50	VERTICAL	Peak
3	3435.590	43.47	28.87	4.16	36.97	39.53	68.20	-28.67	VERTICAL	Peak
4	4443.453	42.85	30.73	4.83	36.81	41.60	68.20	-26.60	VERTICAL	Peak
5	10600.000	37.87	39.59	7.46	37.34	47.58	68.20	-20.62	VERTICAL	Peak
6	15900.000	35.32	38.44	9.86	35.40	48.22	74.00	-25.78	VERTICAL	Peak

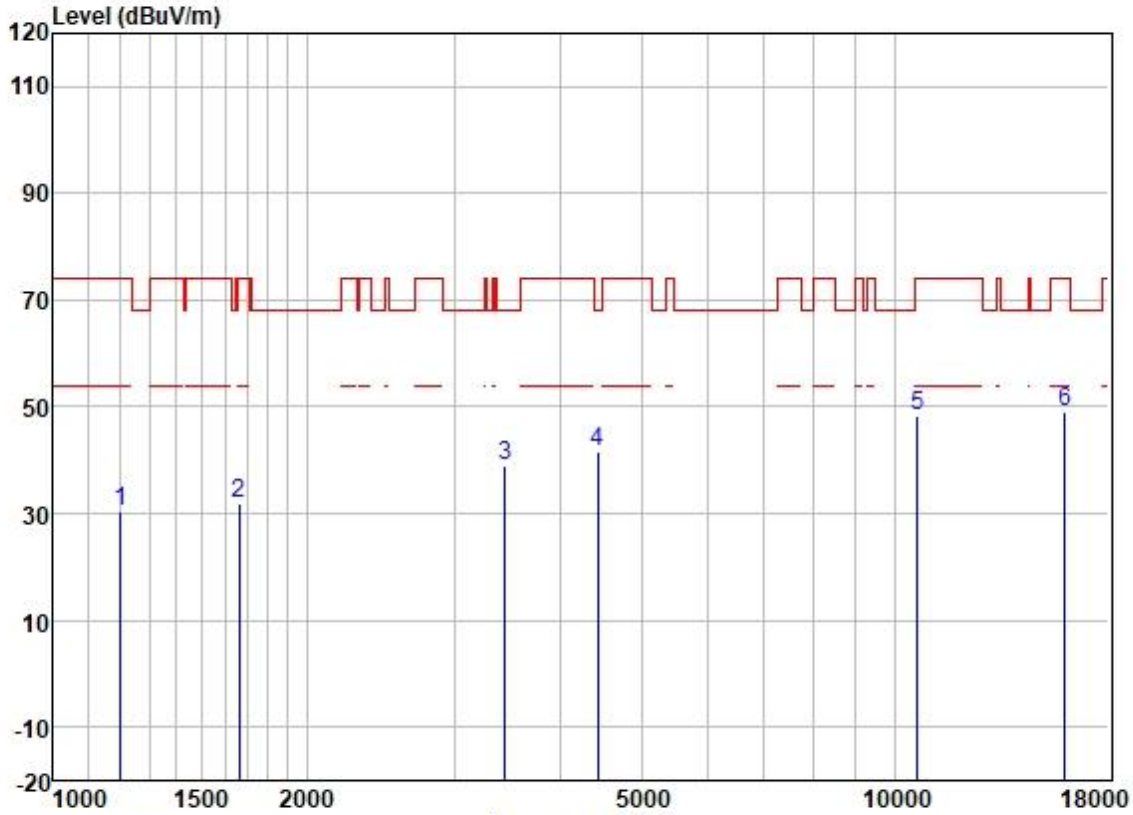
Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1227.791	41.29	24.88	2.31	38.37	30.11	74.00	-43.89	HORIZONTAL	Peak
2	1663.137	42.06	25.65	2.80	37.91	32.60	74.00	-41.40	HORIZONTAL	Peak
3	3465.510	43.22	28.88	4.22	36.95	39.37	68.20	-28.83	HORIZONTAL	Peak
4	4456.315	42.39	30.75	4.88	36.81	41.21	68.20	-26.99	HORIZONTAL	Peak
5	10640.000	37.68	39.63	7.48	37.33	47.46	74.00	-26.54	HORIZONTAL	Peak
6	15960.000	36.21	38.37	9.85	35.40	49.03	74.00	-24.97	HORIZONTAL	Peak

Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	41.83	24.70	2.34	38.39	30.48	74.00	-43.52	VERTICAL	Peak
2	1663.137	41.50	25.65	2.80	37.91	32.04	74.00	-41.96	VERTICAL	Peak
3	3445.535	42.94	28.87	4.18	36.96	39.03	68.20	-29.17	VERTICAL	Peak
4	4443.453	43.00	30.73	4.83	36.81	41.75	68.20	-26.45	VERTICAL	Peak
5	10640.000	38.41	39.63	7.48	37.33	48.19	74.00	-25.81	VERTICAL	Peak
6	15960.000	36.14	38.37	9.85	35.40	48.96	74.00	-25.04	VERTICAL	Peak