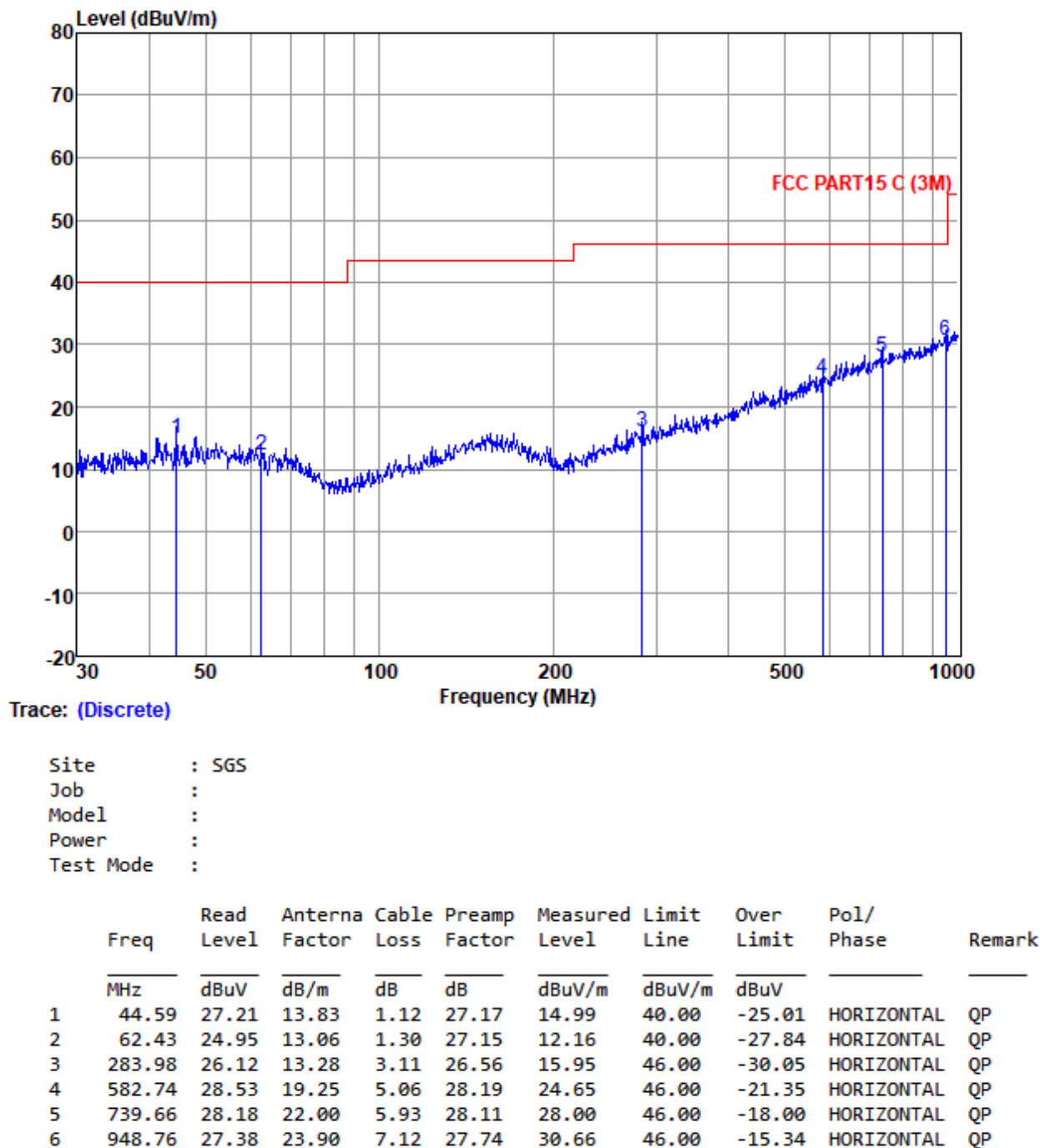
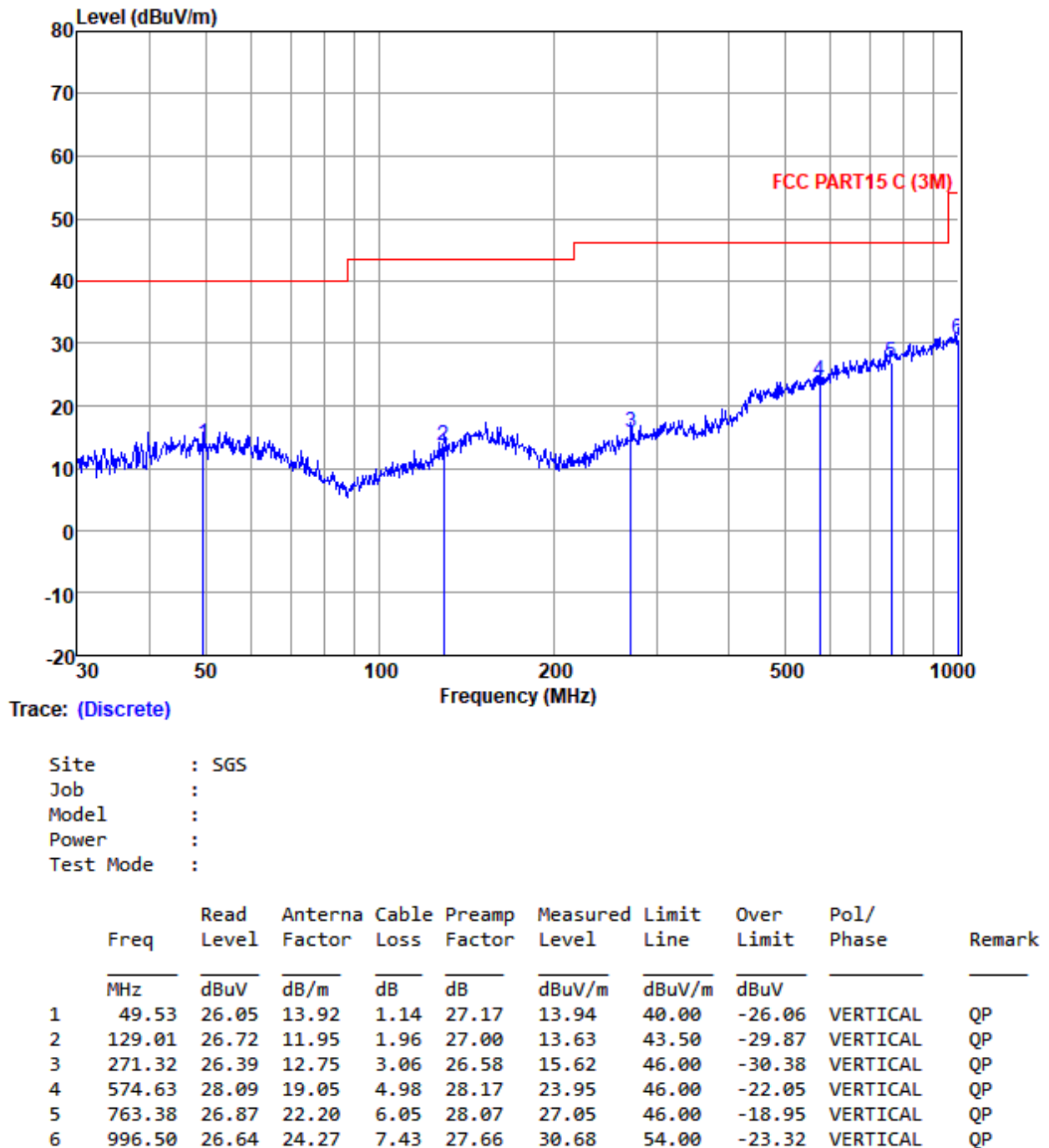


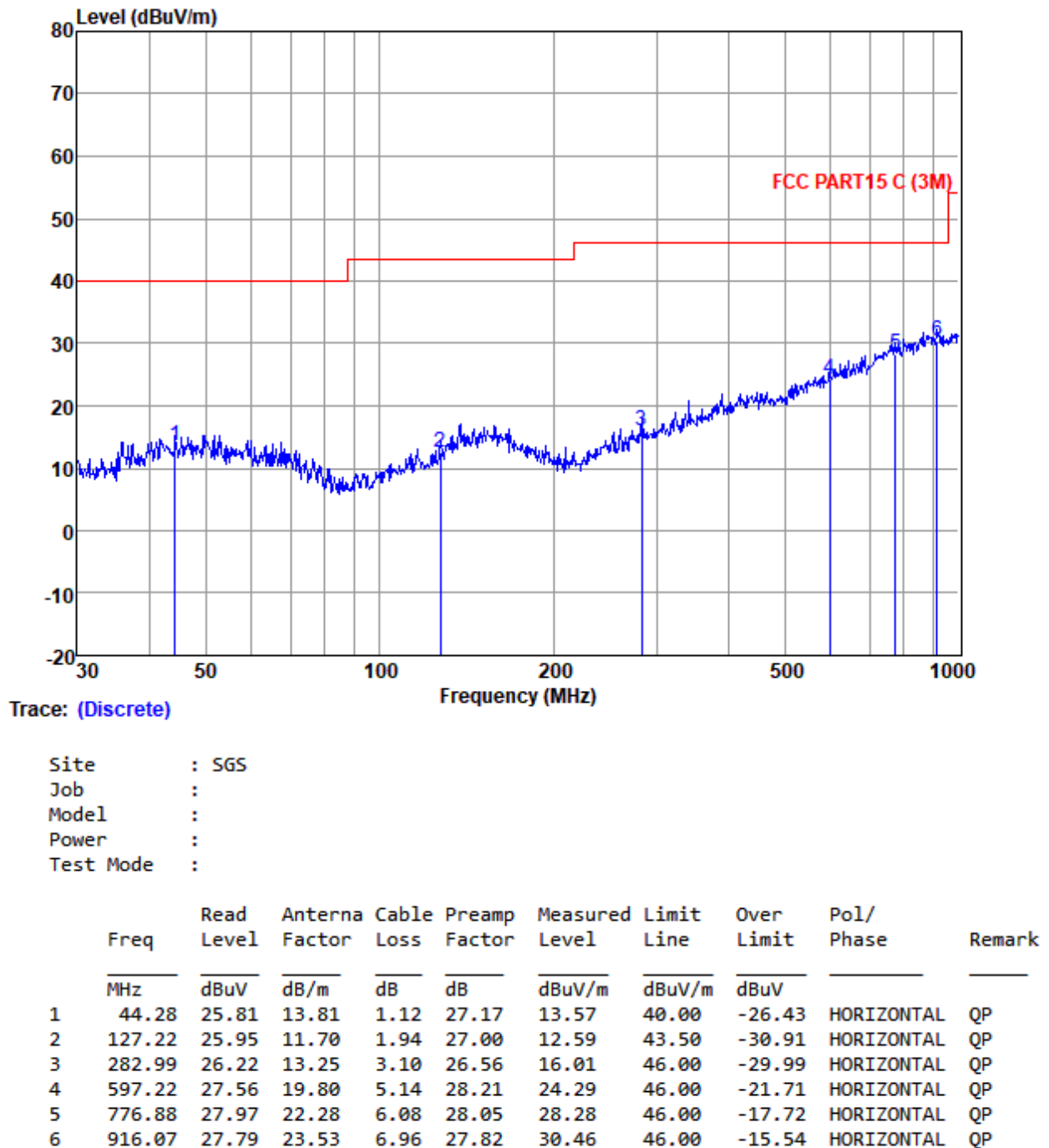
Test mode:04



Test mode:05



Test mode:05



7.8 Radiated Spurious Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement 3m

Distance:

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

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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 53.8 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

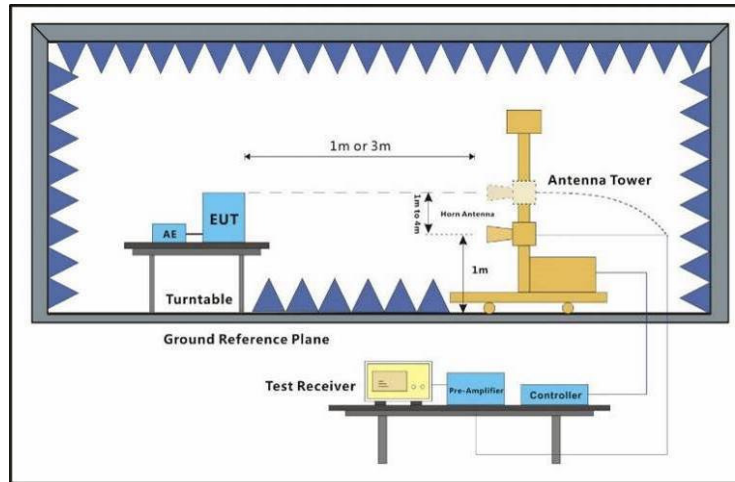
Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

- a. For above 1GHz, 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 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) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

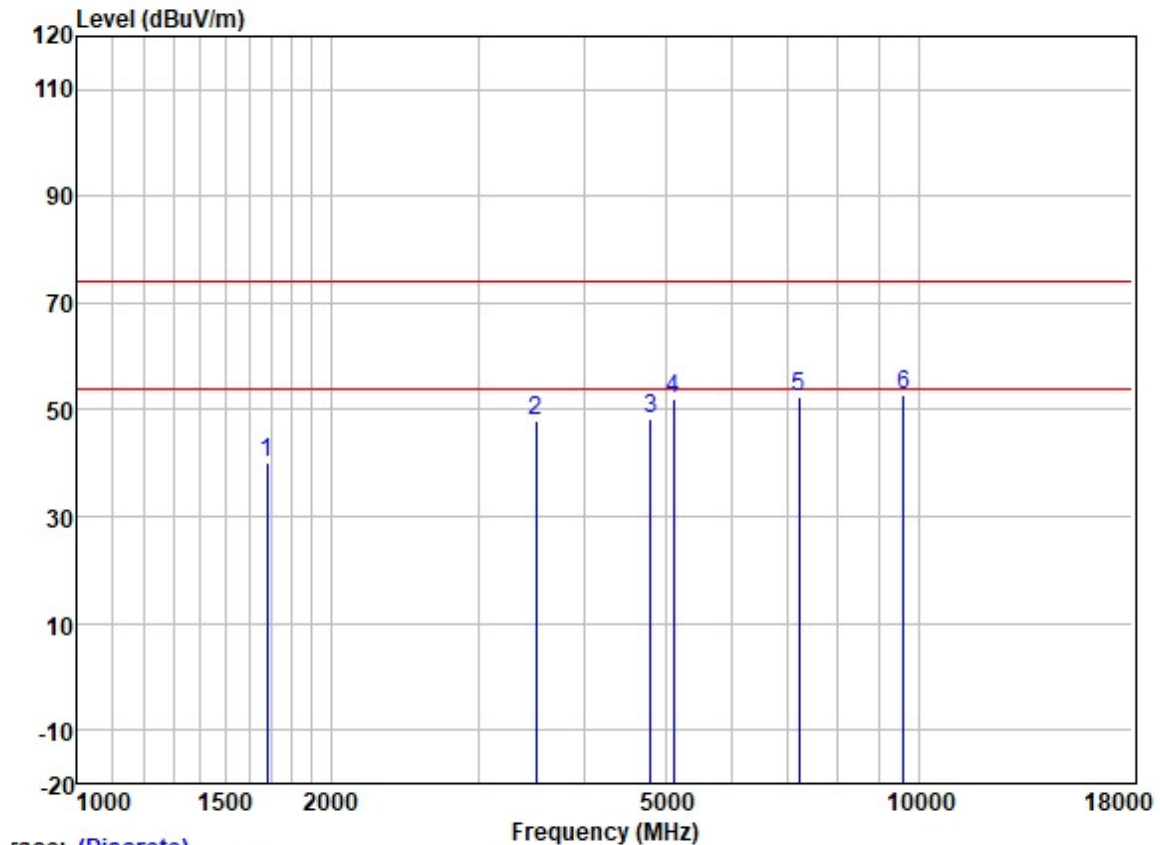
2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) 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.



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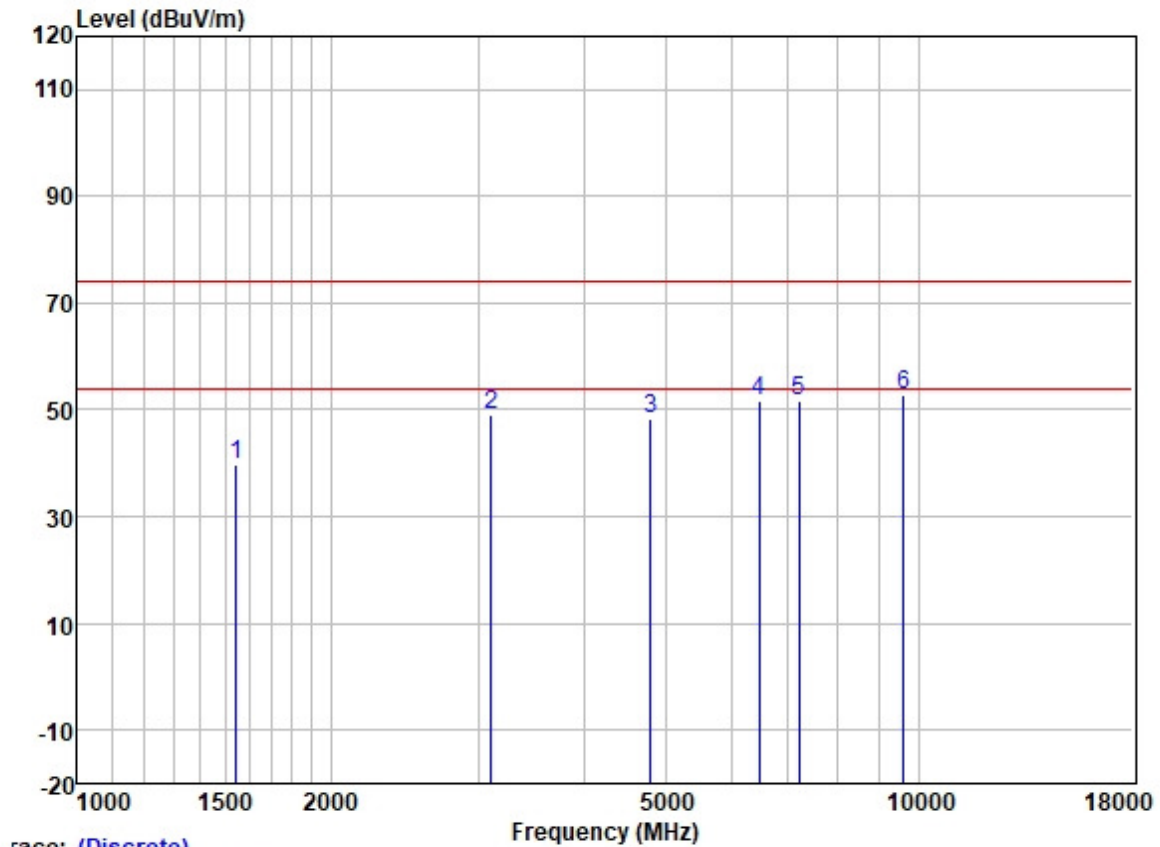
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Rata data: 1M/bits



race: (Discrete)

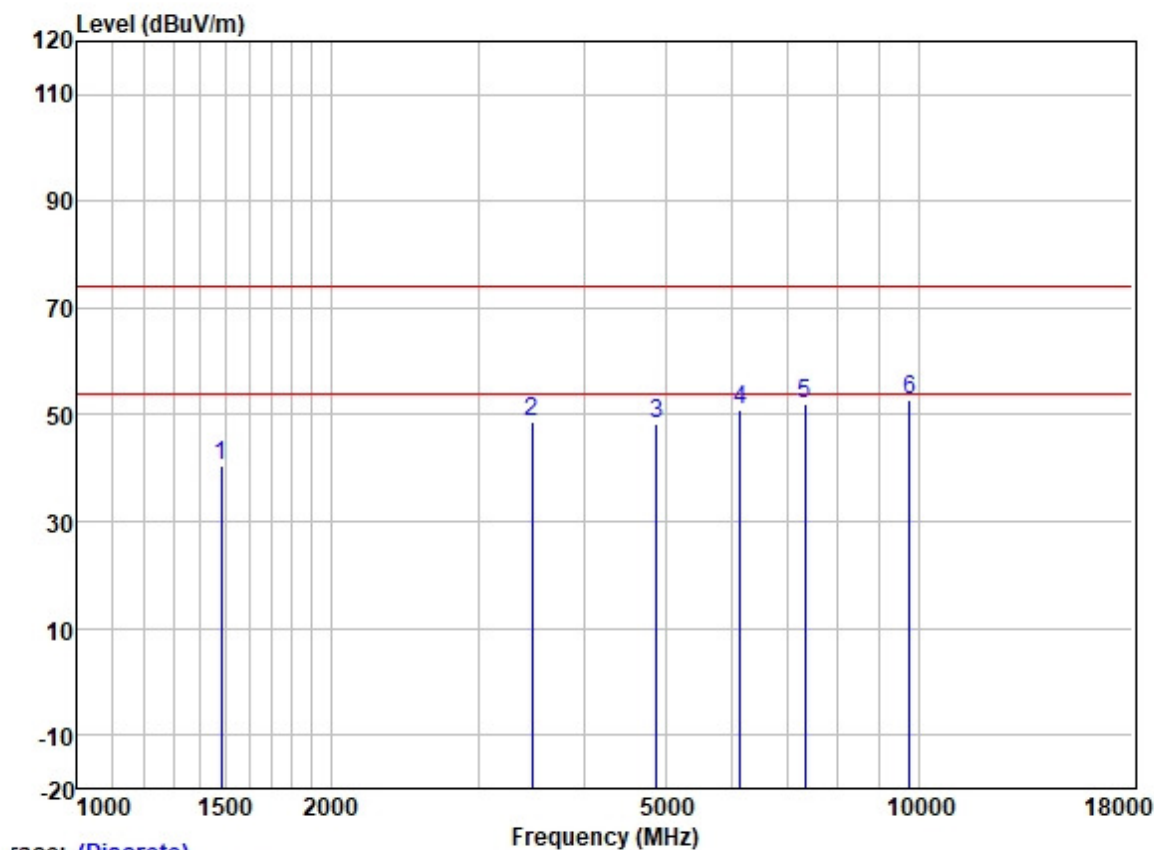
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1680.866	49.43	25.68	2.80	37.91	40.00	74.00	-34.00	HORIZONTAL	Peak
2	3510.603	51.74	28.91	4.33	36.94	48.04	74.00	-25.96	HORIZONTAL	Peak
3	4804.000	48.27	31.42	5.40	36.83	48.26	74.00	-25.74	HORIZONTAL	Peak
4	5120.081	51.53	31.72	5.64	36.86	52.03	74.00	-21.97	HORIZONTAL	Peak
5	7206.000	48.41	35.54	5.98	37.38	52.55	74.00	-21.45	HORIZONTAL	Peak
6	9608.000	44.92	38.37	7.07	37.42	52.94	74.00	-21.06	HORIZONTAL	Peak

Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:Low
Rata data:1M/bits



	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	1545.003	49.30	25.53	2.80	38.03	39.60	74.00	-34.40	VERTICAL	Peak
2	3102.434	53.75	28.48	3.91	37.16	48.98	74.00	-25.02	VERTICAL	Peak
3	4804.000	48.27	31.42	5.40	36.83	48.26	74.00	-25.74	VERTICAL	Peak
4	6459.739	48.92	33.88	5.87	37.00	51.67	74.00	-22.33	VERTICAL	Peak
5	7206.000	47.60	35.54	5.98	37.38	51.74	74.00	-22.26	VERTICAL	Peak
6	9608.000	44.72	38.37	7.07	37.42	52.74	74.00	-21.26	VERTICAL	Peak

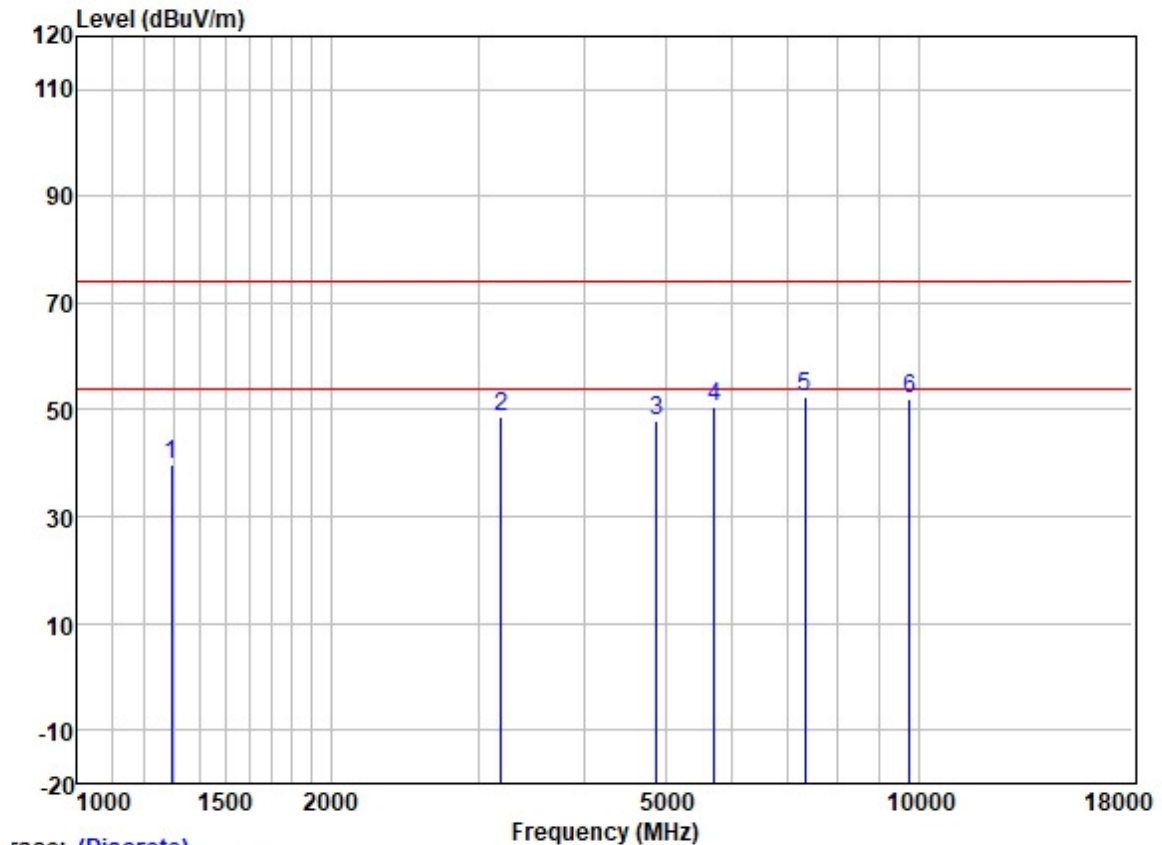
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Rata data:1M/bits



race: (Discrete)

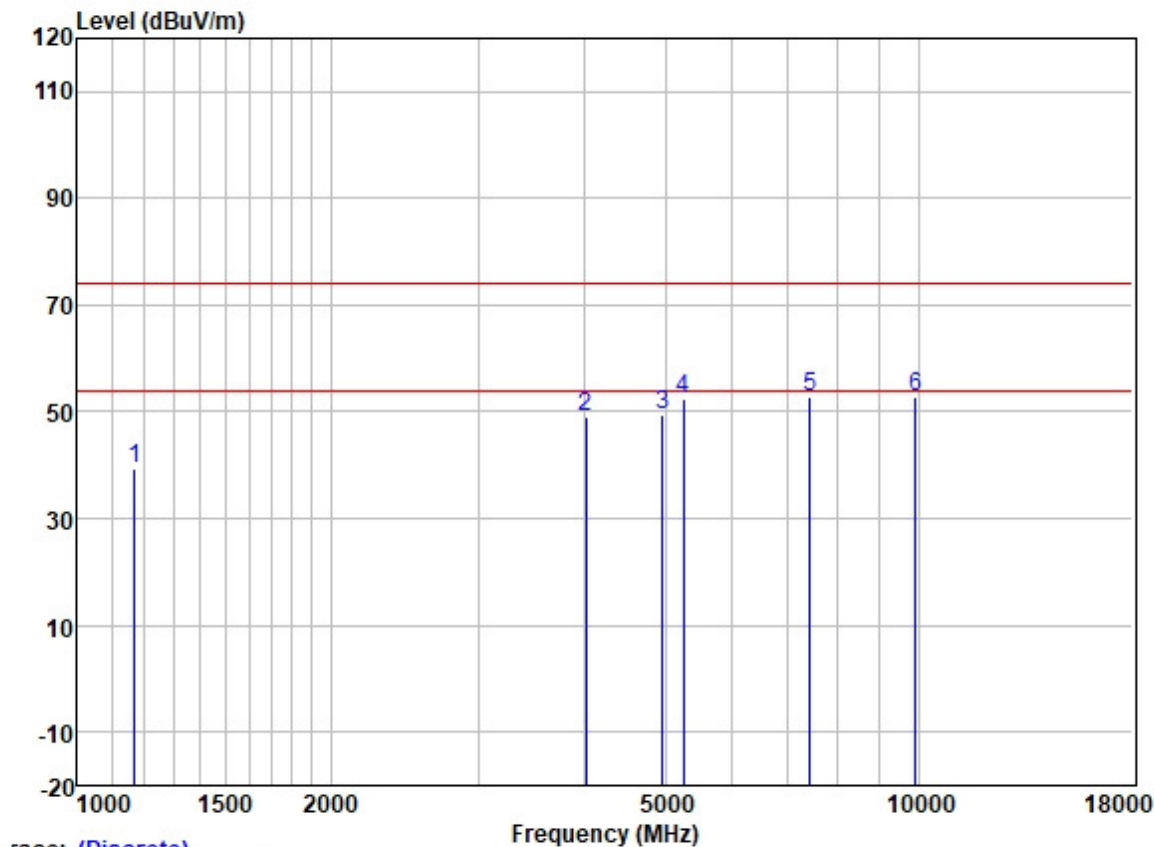
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Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1484.224	50.36	25.49	2.78	38.13	40.50	74.00	-33.50	HORIZONTAL Peak
2	3471.861	52.40	28.89	4.25	36.95	48.59	74.00	-25.41	HORIZONTAL Peak
3	4880.000	47.96	31.54	5.50	36.84	48.16	74.00	-25.84	HORIZONTAL Peak
4	6146.277	48.98	32.77	6.12	36.93	50.94	74.00	-23.06	HORIZONTAL Peak
5	7320.000	47.32	36.00	6.13	37.43	52.02	74.00	-21.98	HORIZONTAL Peak
6	9760.000	44.57	38.50	7.02	37.41	52.68	74.00	-21.32	HORIZONTAL Peak

Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:middle
Rata data:1M/bits



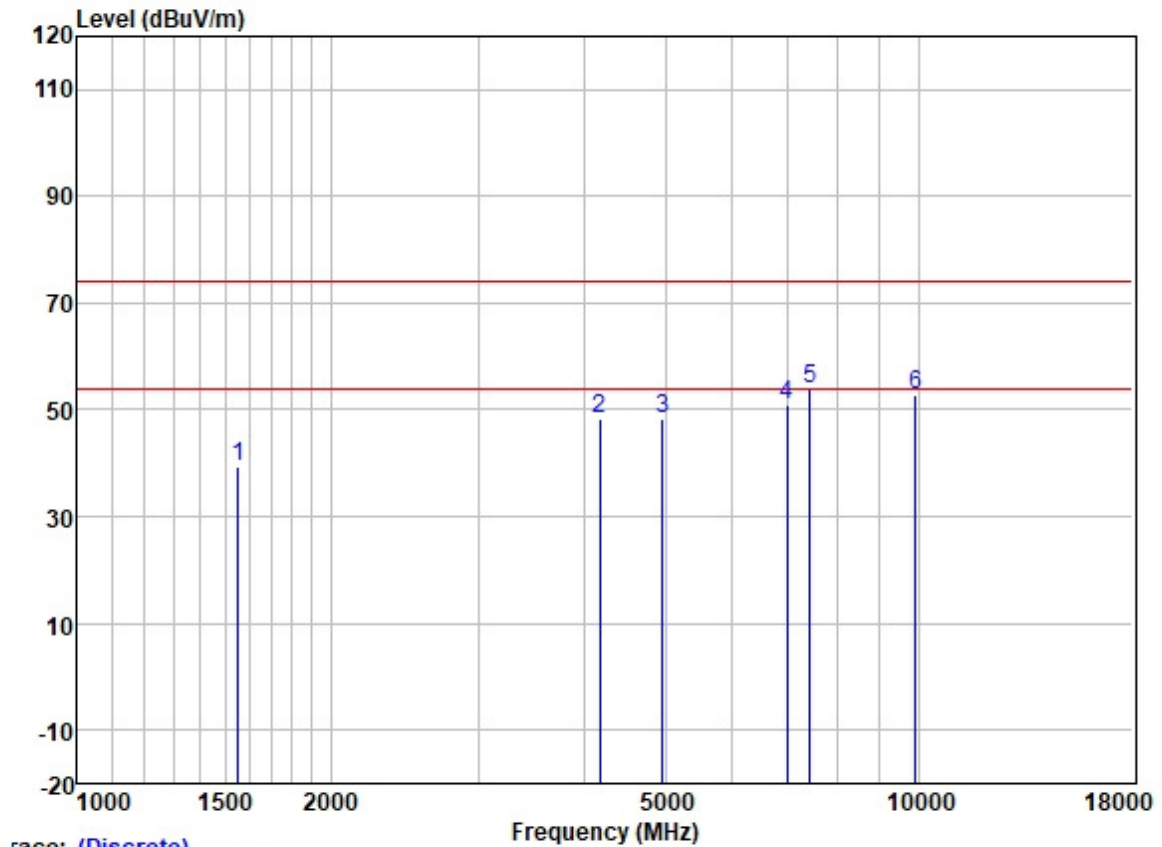
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1293.815	50.27	25.18	2.57	38.31	39.71	74.00	-34.29	VERTICAL	Peak
2	3194.221	53.37	28.58	4.00	37.09	48.86	74.00	-25.14	VERTICAL	Peak
3	4880.000	47.78	31.54	5.50	36.84	47.98	74.00	-26.02	VERTICAL	Peak
4	5712.452	49.03	32.04	6.33	36.89	50.51	74.00	-23.49	VERTICAL	Peak
5	7320.000	47.63	36.00	6.13	37.43	52.33	74.00	-21.67	VERTICAL	Peak
6	9760.000	43.77	38.50	7.02	37.41	51.88	74.00	-22.12	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:High
Rata data:1M/bits



race: (Discrete)		Frequency (MHz)							
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1168.873	50.84	24.55	2.39	38.40	39.38	74.00	-34.62	HORIZONTAL Peak
2	4021.947	51.57	29.83	4.60	36.80	49.20	74.00	-24.80	HORIZONTAL Peak
3	4960.000	49.03	31.65	5.65	36.84	49.49	74.00	-24.51	HORIZONTAL Peak
4	5252.813	51.65	31.75	5.77	36.87	52.30	74.00	-21.70	HORIZONTAL Peak
5	7440.000	47.80	36.27	6.22	37.47	52.82	74.00	-21.18	HORIZONTAL Peak
6	9920.000	44.48	38.65	6.96	37.40	52.69	74.00	-21.31	HORIZONTAL Peak

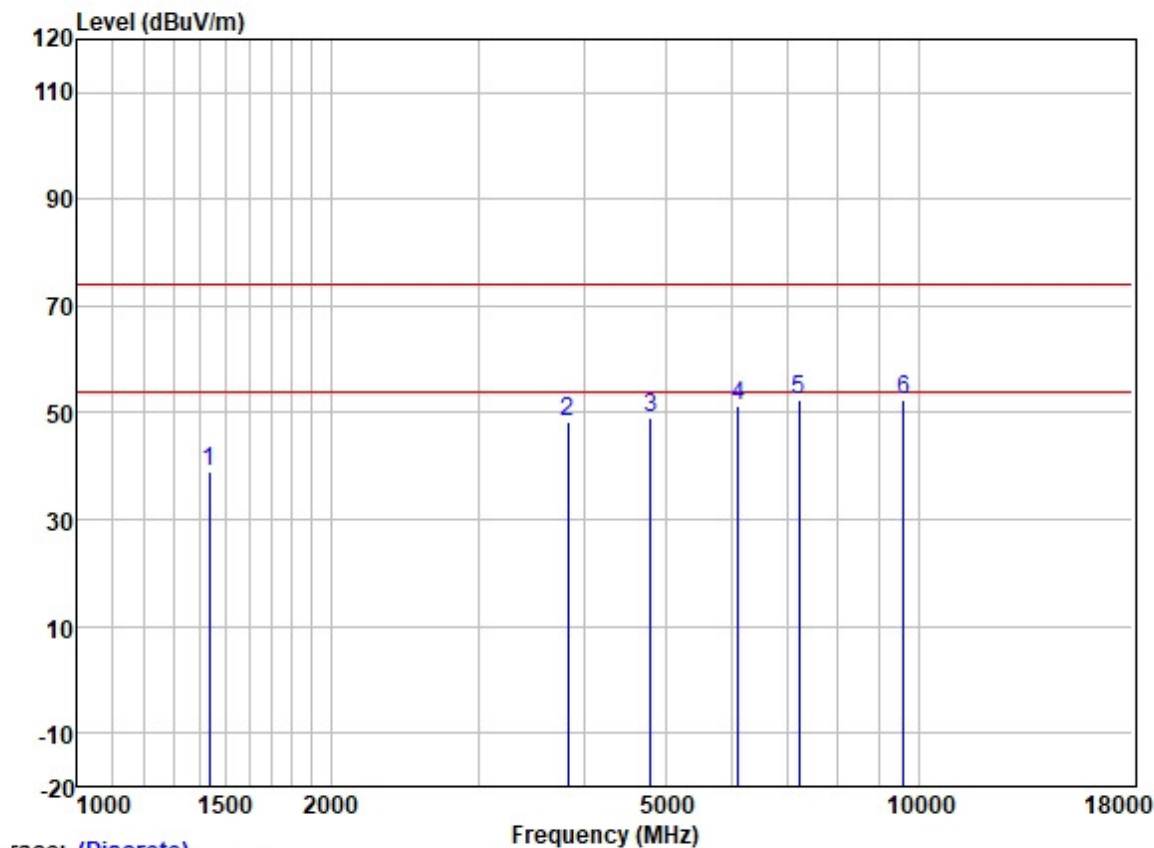
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Rata data:1M/bits



race: (Discrete)

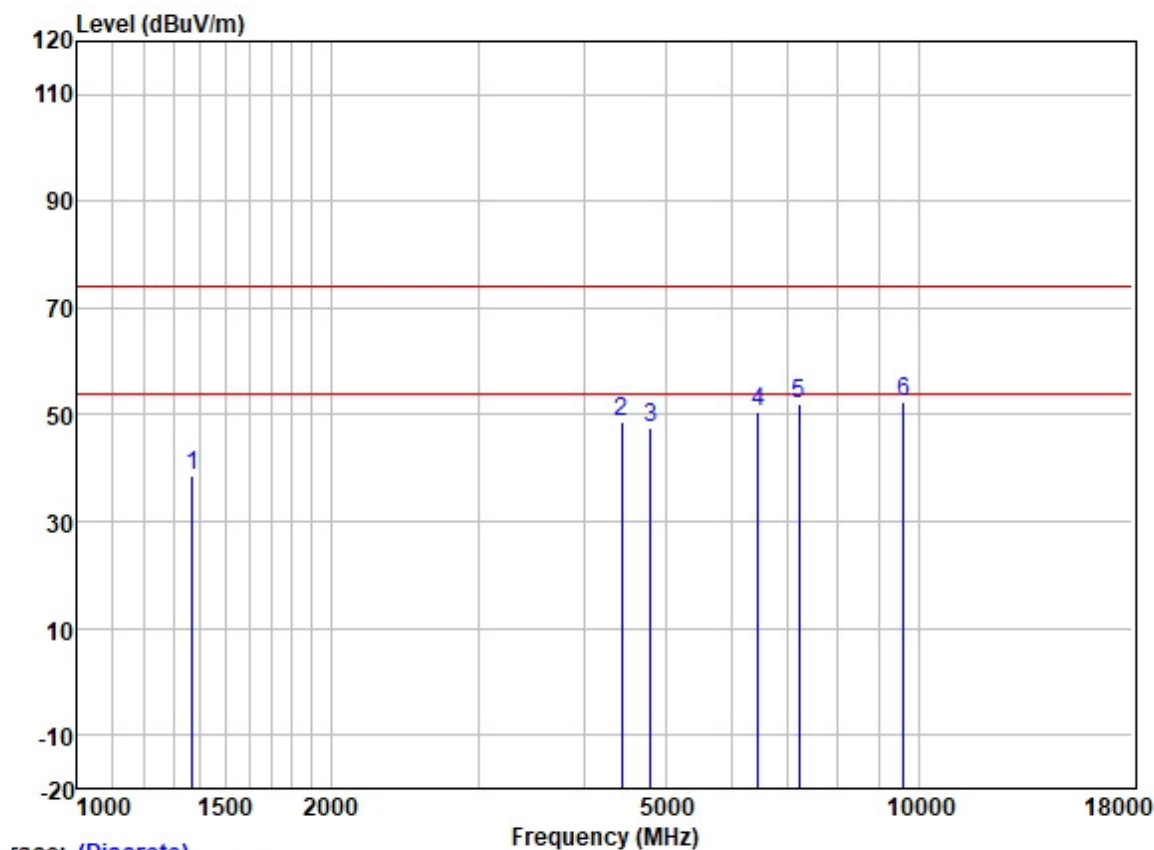
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1553.483	49.23	25.54	2.80	38.03	39.54	74.00	-34.46	VERTICAL	Peak
2	4180.613	50.57	30.12	4.60	36.80	48.49	74.00	-25.51	VERTICAL	Peak
3	4960.000	47.95	31.65	5.65	36.84	48.41	74.00	-25.59	VERTICAL	Peak
4	6977.035	47.52	34.97	5.81	37.23	51.07	74.00	-22.93	VERTICAL	Peak
5	7440.000	48.76	36.27	6.22	37.47	53.78	74.00	-20.22	VERTICAL	Peak
6	9920.000	44.52	38.65	6.96	37.40	52.73	74.00	-21.27	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low
Rata data:2M/bits



		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	1436.422	48.95	25.44	2.67	38.20	38.86	74.00	-35.14	HORIZONTAL	Peak
2	3833.081	51.01	29.59	4.60	36.84	48.36	74.00	-25.64	HORIZONTAL	Peak
3	4804.000	49.22	31.42	5.40	36.83	49.21	74.00	-24.79	HORIZONTAL	Peak
4	6097.921	49.59	32.66	6.14	36.92	51.47	74.00	-22.53	HORIZONTAL	Peak
5	7206.000	48.10	35.54	5.98	37.38	52.24	74.00	-21.76	HORIZONTAL	Peak
6	9608.000	44.39	38.37	7.07	37.42	52.41	74.00	-21.59	HORIZONTAL	Peak

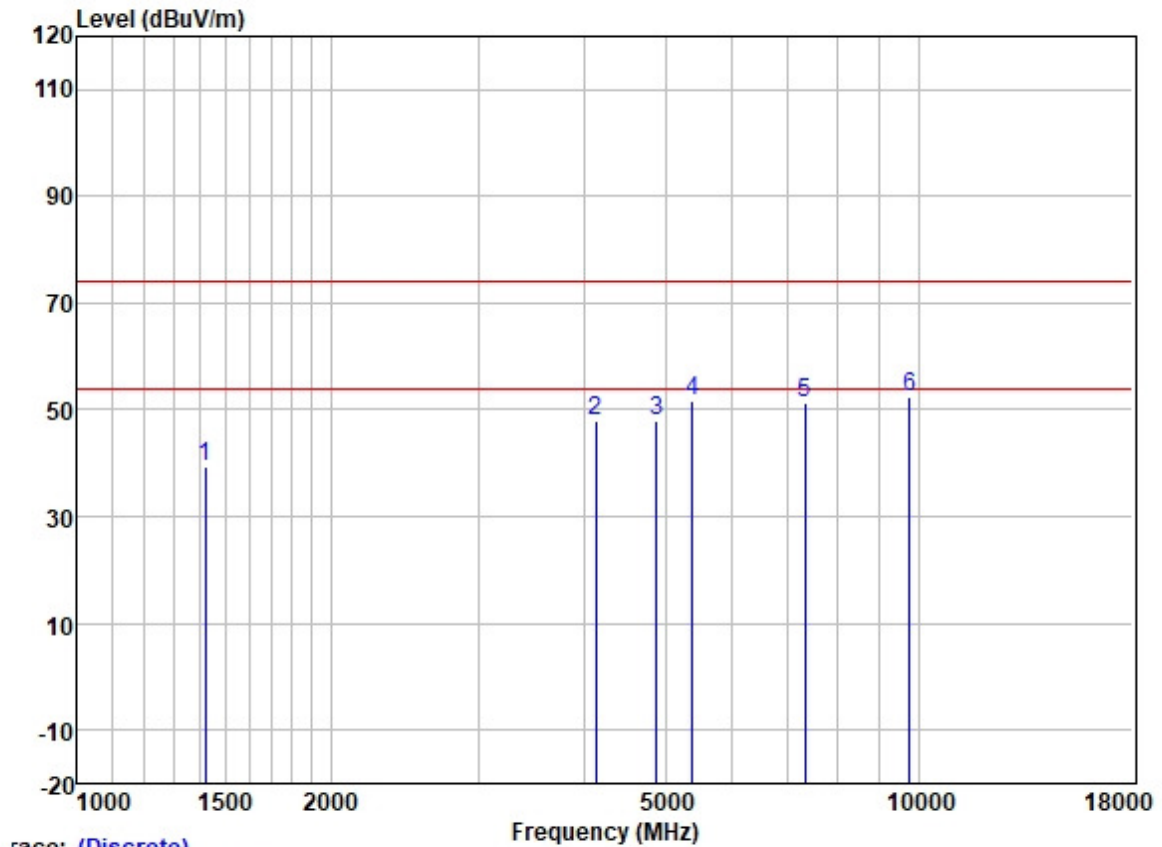
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Rata data:2M/bits



Trace: (Discrete)

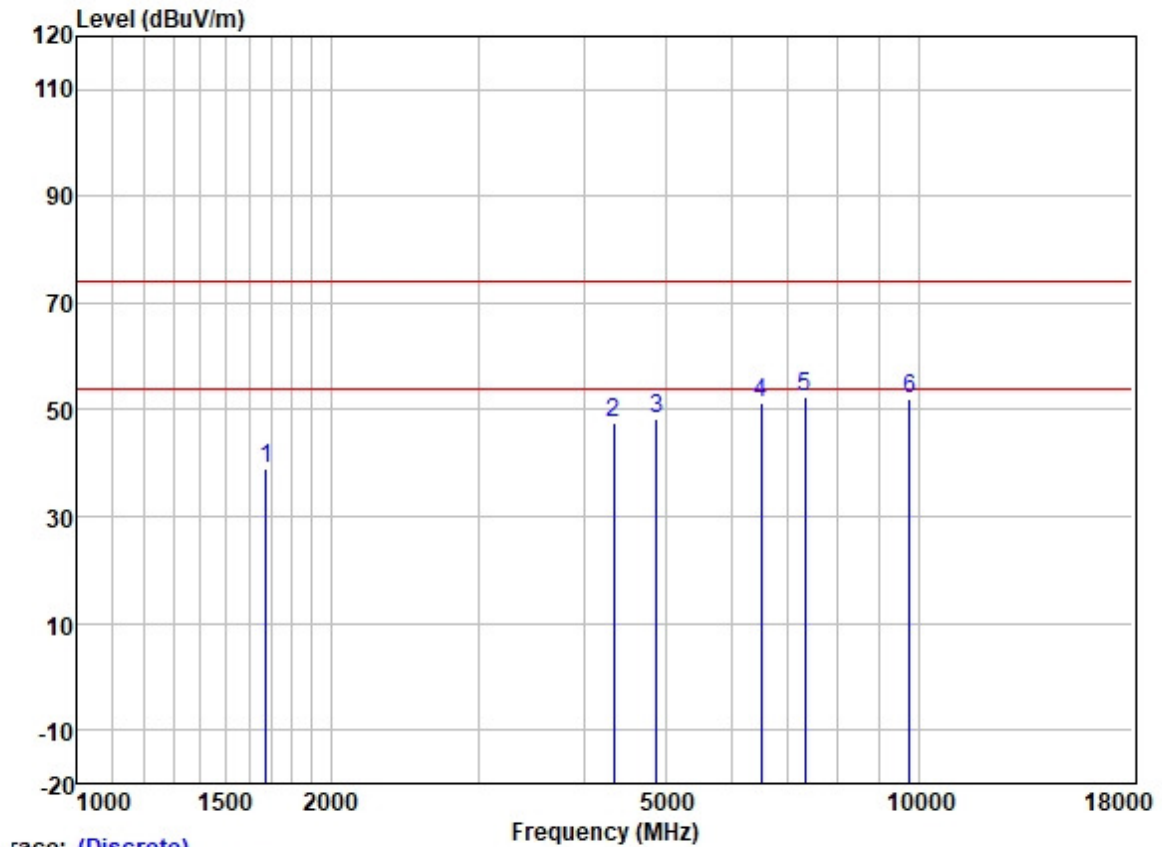
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1368.747	48.83	25.35	2.60	38.25	38.53	74.00	-35.47	VERTICAL	Peak
2	4442.679	49.89	30.73	4.83	36.81	48.64	74.00	-25.36	VERTICAL	Peak
3	4804.000	47.55	31.42	5.40	36.83	47.54	74.00	-26.46	VERTICAL	Peak
4	6441.741	47.75	33.83	5.88	37.00	50.46	74.00	-23.54	VERTICAL	Peak
5	7206.000	47.93	35.54	5.98	37.38	52.07	74.00	-21.93	VERTICAL	Peak
6	9608.000	44.43	38.37	7.07	37.42	52.45	74.00	-21.55	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle
Rata data:2M/bits



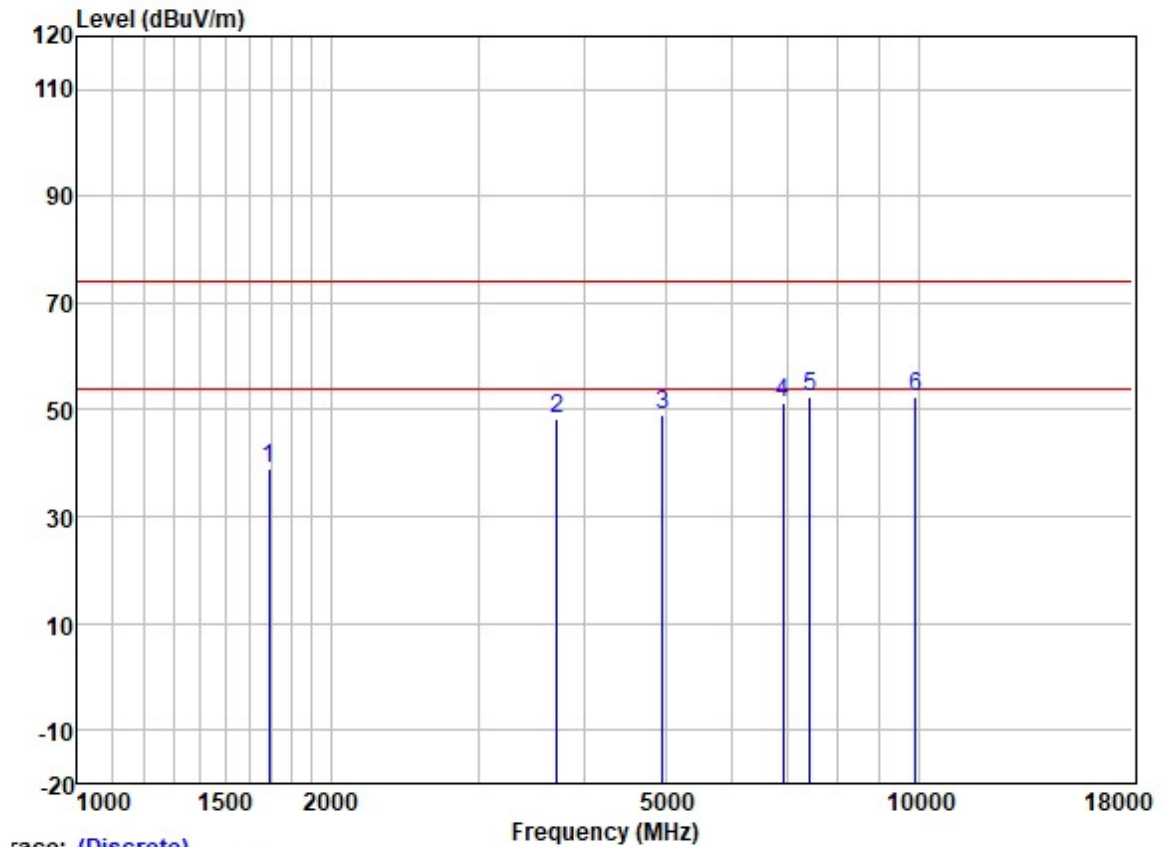
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1419.858	49.62	25.42	2.63	38.20	39.47	74.00	-34.53	HORIZONTAL	Peak
2	4133.510	50.21	30.01	4.60	36.80	48.02	74.00	-25.98	HORIZONTAL	Peak
3	4880.000	47.76	31.54	5.50	36.84	47.96	74.00	-26.04	HORIZONTAL	Peak
4	5390.323	50.63	31.78	6.00	36.88	51.53	74.00	-22.47	HORIZONTAL	Peak
5	7320.000	46.75	36.00	6.13	37.43	51.45	74.00	-22.55	HORIZONTAL	Peak
6	9760.000	44.45	38.50	7.02	37.41	52.56	74.00	-21.44	HORIZONTAL	Peak

Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:middle
Rata data:2M/bits



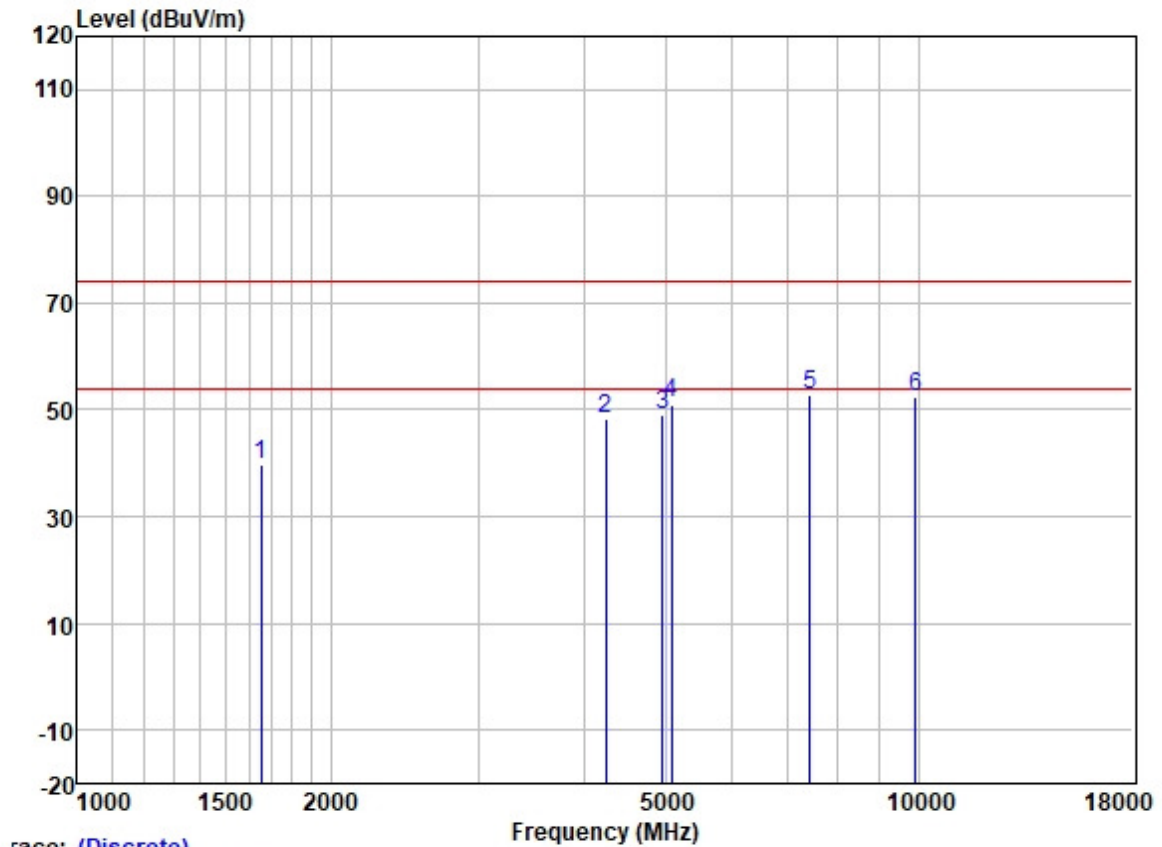
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1674.337	48.54	25.67	2.80	37.91	39.10	74.00	-34.90	VERTICAL	Peak
2	4337.449	49.09	30.57	4.67	36.81	47.52	74.00	-26.48	VERTICAL	Peak
3	4880.000	48.00	31.54	5.50	36.84	48.20	74.00	-25.80	VERTICAL	Peak
4	6495.932	48.39	33.96	5.85	37.01	51.19	74.00	-22.81	VERTICAL	Peak
5	7320.000	47.58	36.00	6.13	37.43	52.28	74.00	-21.72	VERTICAL	Peak
6	9760.000	43.93	38.50	7.02	37.41	52.04	74.00	-21.96	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:High
Rata data:2M/bits



		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	1689.633	48.26	25.69	2.80	37.89	38.86	74.00	-35.14	HORIZONTAL	Peak
2	3720.132	51.20	29.31	4.57	36.87	48.21	74.00	-25.79	HORIZONTAL	Peak
3	4960.000	48.67	31.65	5.65	36.84	49.13	74.00	-24.87	HORIZONTAL	Peak
4	6896.221	47.87	34.85	5.81	37.18	51.35	74.00	-22.65	HORIZONTAL	Peak
5	7440.000	47.34	36.27	6.22	37.47	52.36	74.00	-21.64	HORIZONTAL	Peak
6	9920.000	44.26	38.65	6.96	37.40	52.47	74.00	-21.53	HORIZONTAL	Peak

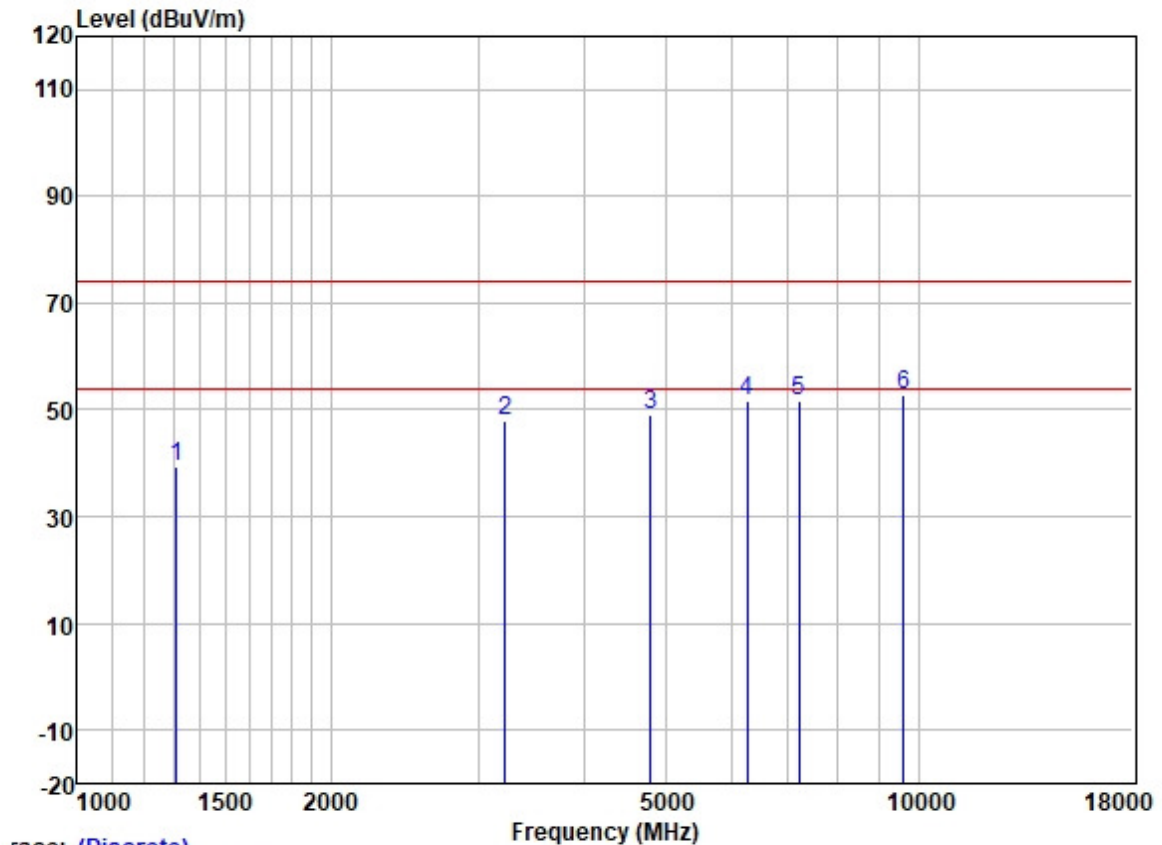
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Rata data:2M/bits



Trace: (Discrete)

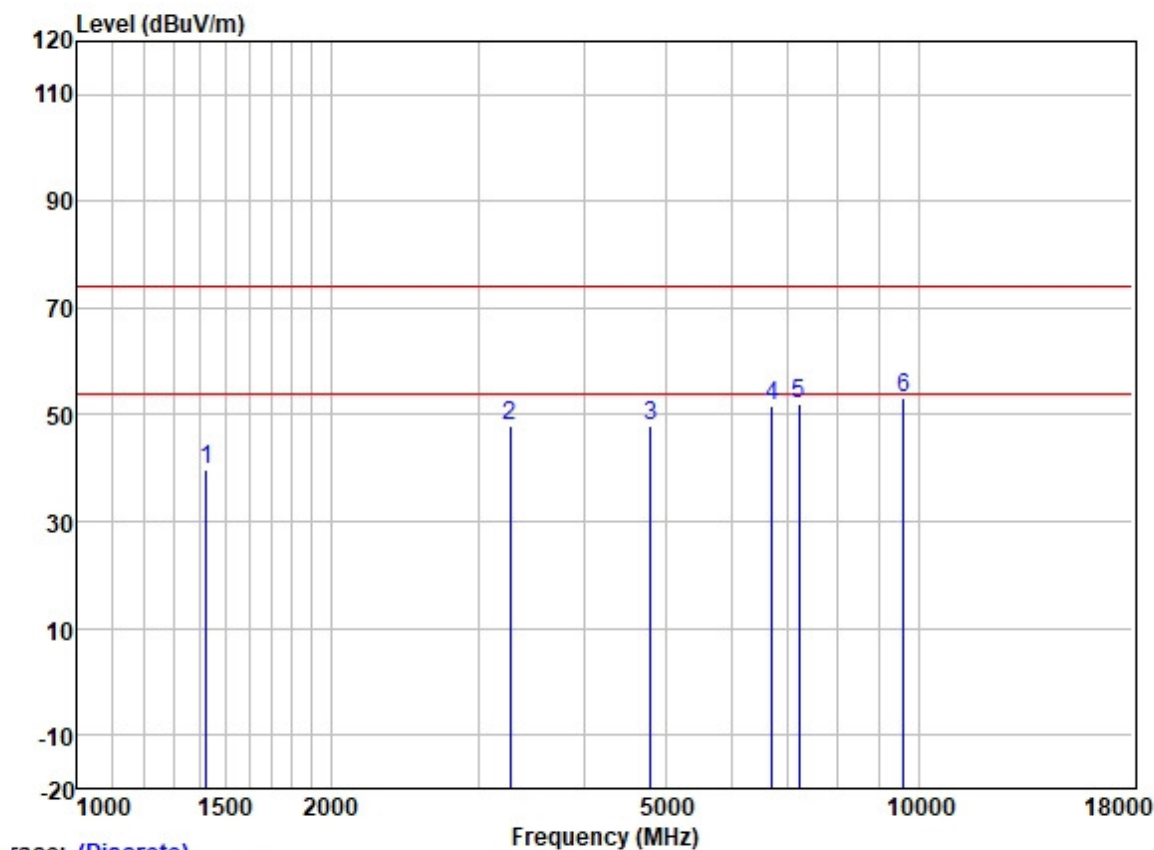
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1653.973	49.16	25.64	2.80	37.93	39.67	74.00	-34.33	VERTICAL	Peak
2	4244.844	50.04	30.30	4.62	36.81	48.15	74.00	-25.85	VERTICAL	Peak
3	4960.000	48.58	31.65	5.65	36.84	49.04	74.00	-24.96	VERTICAL	Peak
4	5082.401	50.60	31.71	5.67	36.86	51.12	74.00	-22.88	VERTICAL	Peak
5	7440.000	47.72	36.27	6.22	37.47	52.74	74.00	-21.26	VERTICAL	Peak
6	9920.000	44.35	38.65	6.96	37.40	52.56	74.00	-21.44	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; ; Channel: Low
Rata data: 1M/bits



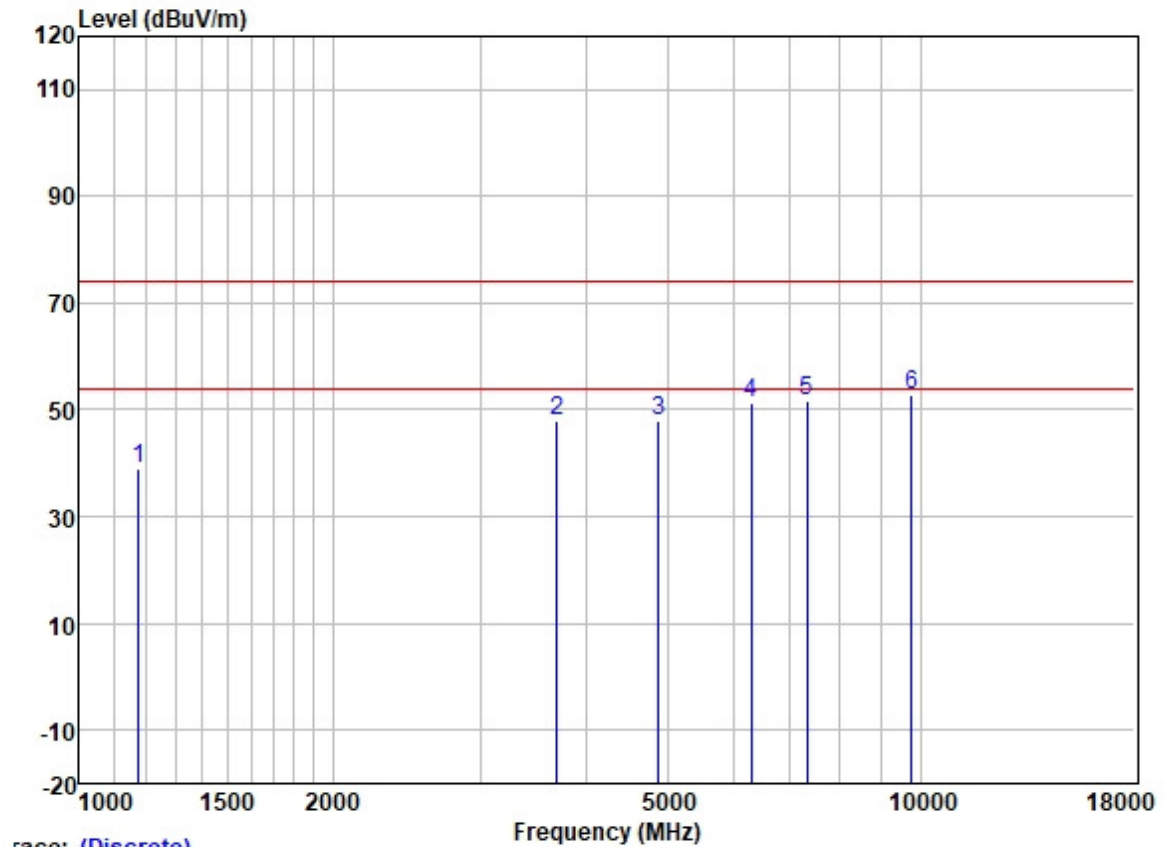
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1310.601	49.67	25.23	2.60	38.31	39.19	74.00	-34.81	HORIZONTAL	Peak
2	3225.276	52.24	28.63	4.01	37.07	47.81	74.00	-26.19	HORIZONTAL	Peak
3	4804.000	49.04	31.42	5.40	36.83	49.03	74.00	-24.97	HORIZONTAL	Peak
4	6265.870	49.27	33.29	6.00	36.95	51.61	74.00	-22.39	HORIZONTAL	Peak
5	7206.000	47.39	35.54	5.98	37.38	51.53	74.00	-22.47	HORIZONTAL	Peak
6	9608.000	44.86	38.37	7.07	37.42	52.88	74.00	-21.12	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:Low
Rata data:1M/bits



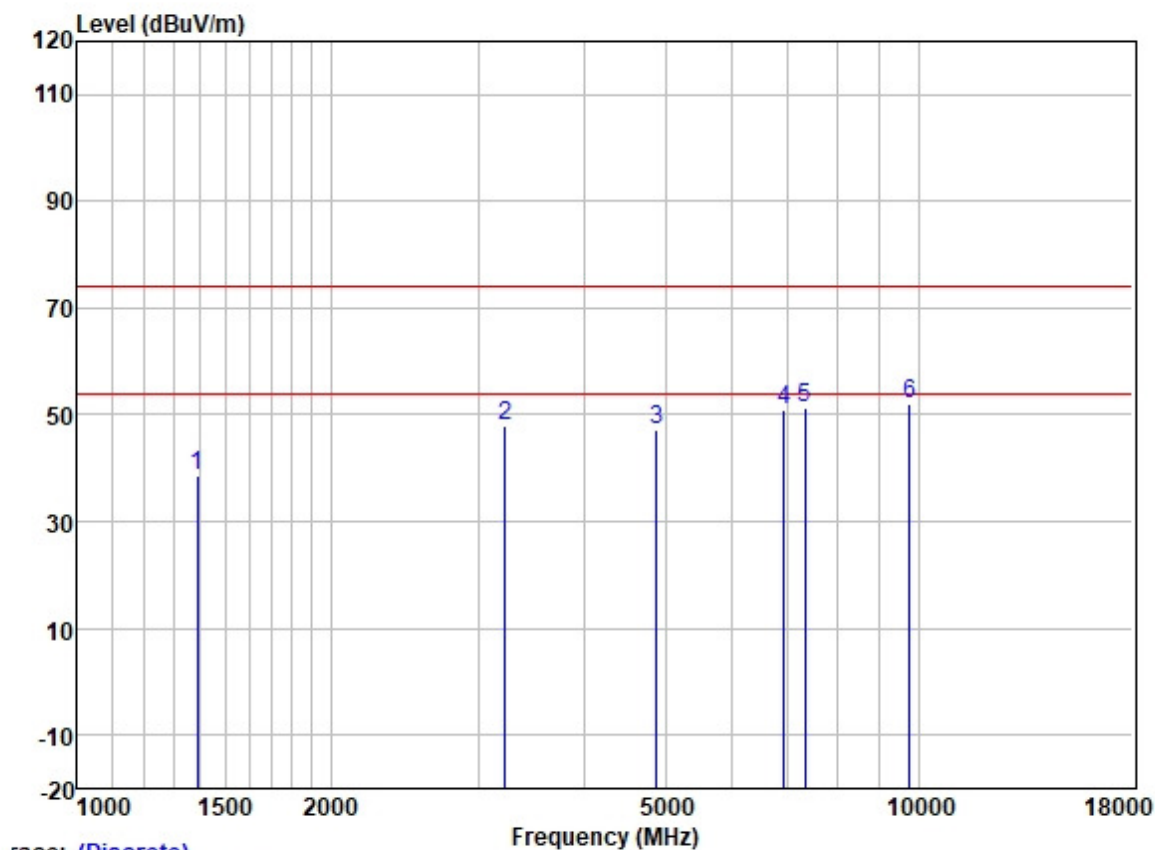
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1421.922	49.70	25.42	2.64	38.20	39.56	74.00	-34.44	VERTICAL	Peak
2	3273.546	52.12	28.71	4.04	37.04	47.83	74.00	-26.17	VERTICAL	Peak
3	4804.000	47.92	31.42	5.40	36.83	47.91	74.00	-26.09	VERTICAL	Peak
4	6694.478	48.57	34.38	5.83	37.08	51.70	74.00	-22.30	VERTICAL	Peak
5	7206.000	47.90	35.54	5.98	37.38	52.04	74.00	-21.96	VERTICAL	Peak
6	9608.000	44.98	38.37	7.07	37.42	53.00	74.00	-21.00	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle
Rata data:1M/bits



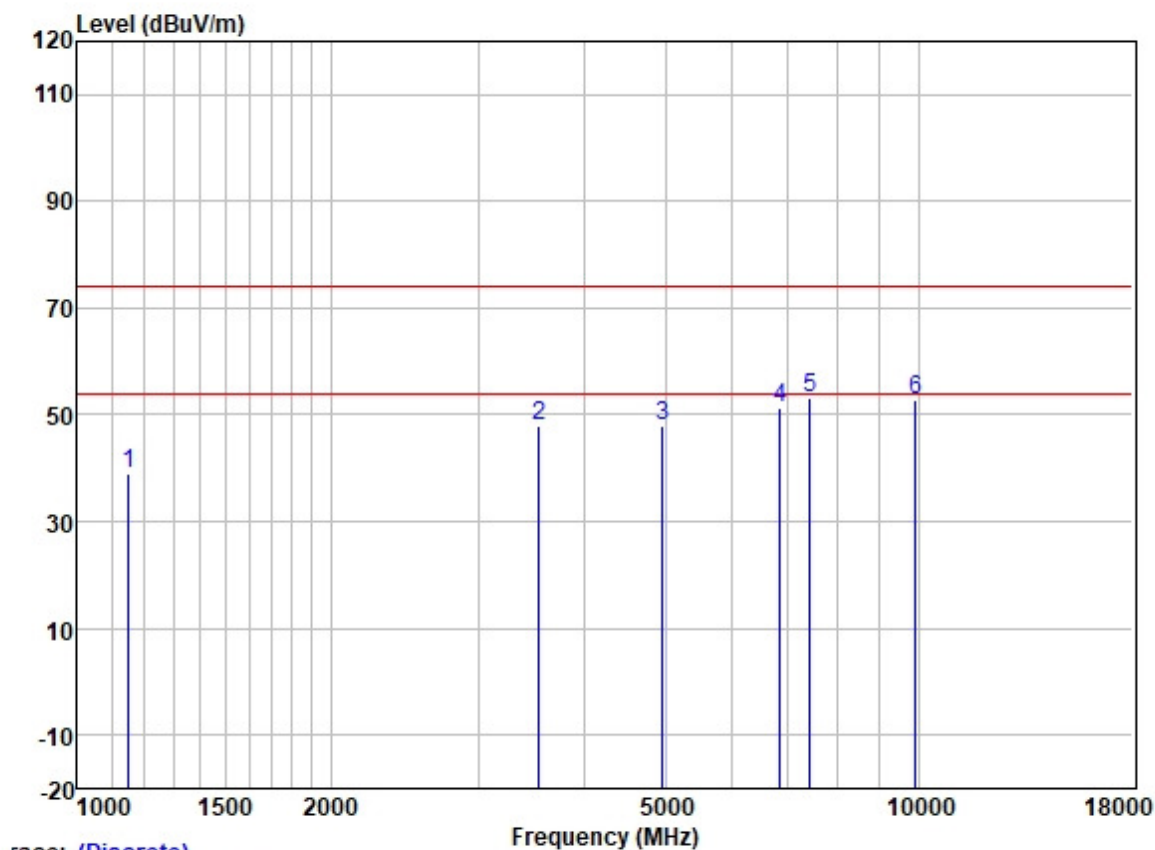
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1176.284	50.34	24.58	2.38	38.40	38.90	74.00	-35.10	HORIZONTAL	Peak
2	3700.149	51.02	29.25	4.56	36.88	47.95	74.00	-26.05	HORIZONTAL	Peak
3	4880.000	47.78	31.54	5.50	36.84	47.98	74.00	-26.02	HORIZONTAL	Peak
4	6284.805	48.73	33.37	5.98	36.95	51.13	74.00	-22.87	HORIZONTAL	Peak
5	7320.000	46.80	36.00	6.13	37.43	51.50	74.00	-22.50	HORIZONTAL	Peak
6	9760.000	44.68	38.50	7.02	37.41	52.79	74.00	-21.21	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation: GFSK; ; Channel: middle
Rata data: 1M/bits



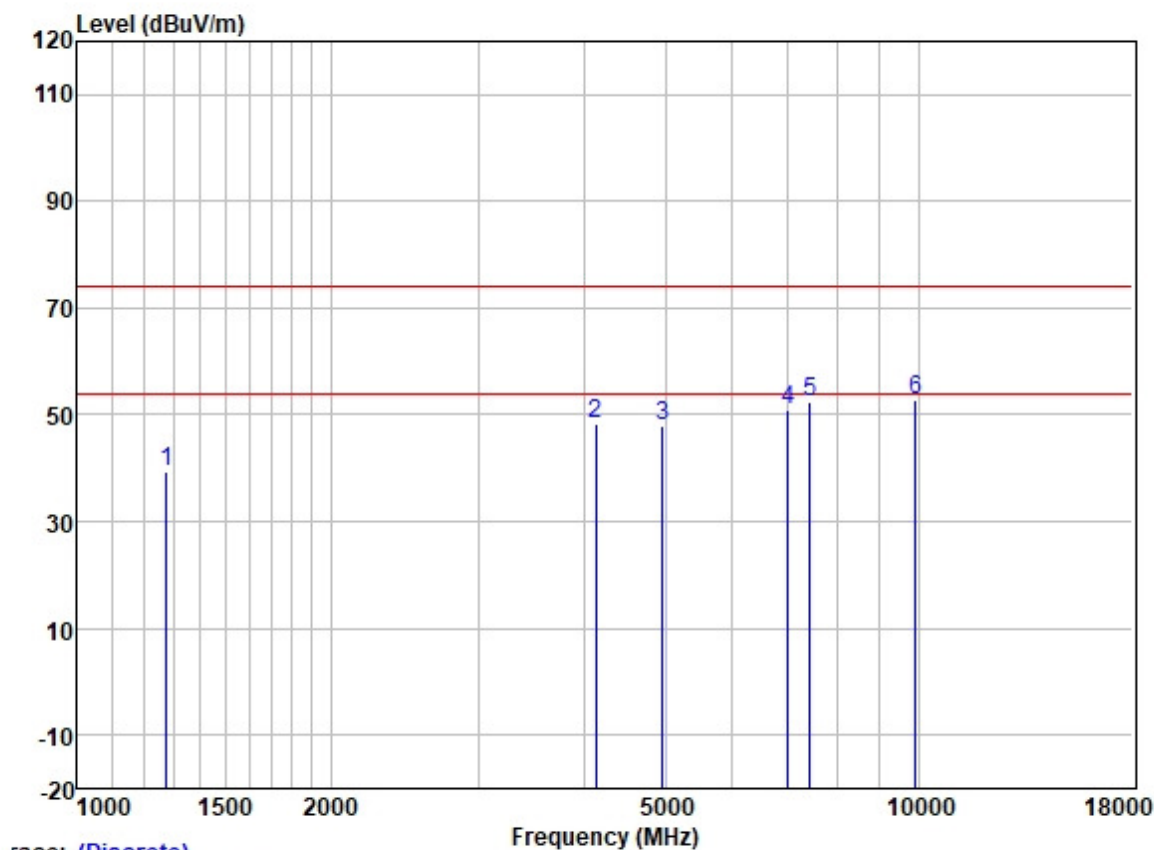
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1388.118	48.87	25.37	2.60	38.22	38.62	74.00	-35.38	VERTICAL	Peak
2	3221.302	52.41	28.63	4.01	37.07	47.98	74.00	-26.02	VERTICAL	Peak
3	4880.000	46.93	31.54	5.50	36.84	47.13	74.00	-26.87	VERTICAL	Peak
4	6917.177	47.41	34.89	5.81	37.19	50.92	74.00	-23.08	VERTICAL	Peak
5	7320.000	46.63	36.00	6.13	37.43	51.33	74.00	-22.67	VERTICAL	Peak
6	9760.000	43.90	38.50	7.02	37.41	52.01	74.00	-21.99	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; ; Channel: High
Rate data: 1M/bits



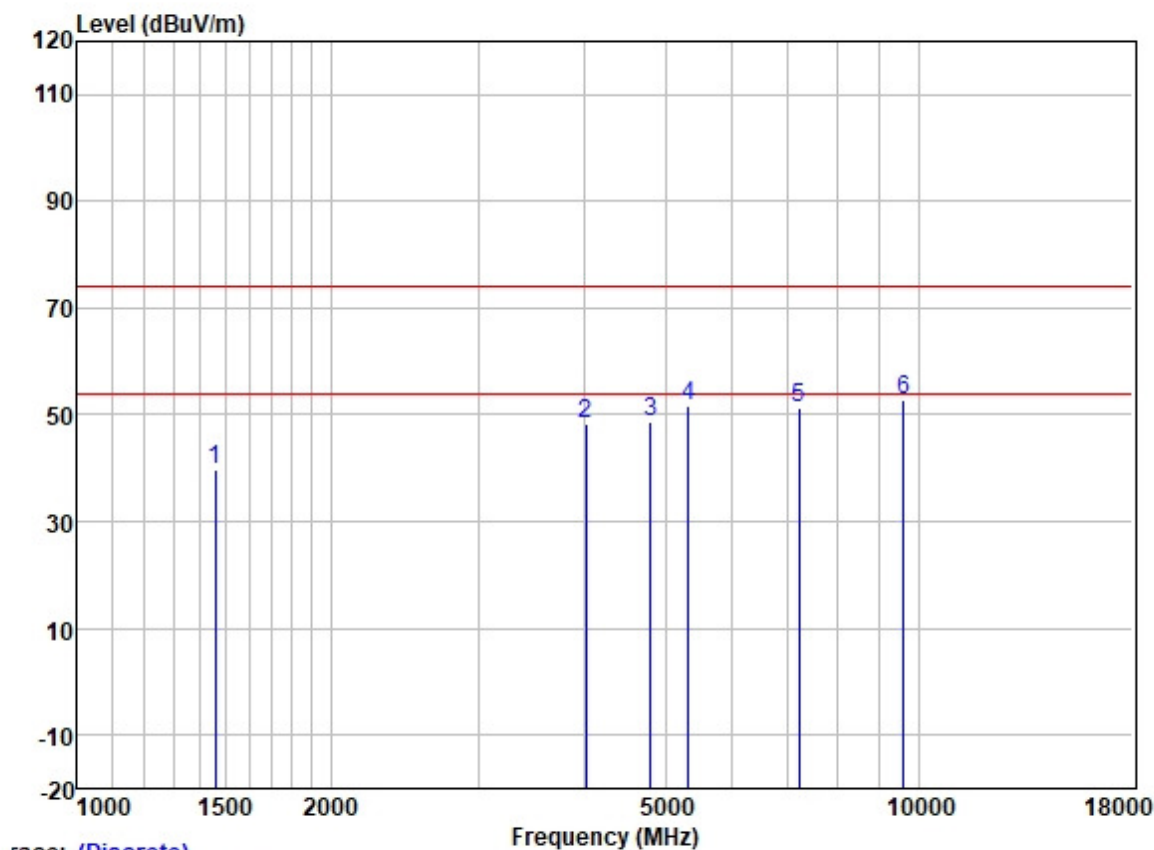
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1151.024	50.67	24.50	2.36	38.42	39.11	74.00	-34.89	HORIZONTAL	Peak
2	3542.716	51.66	28.96	4.42	36.92	48.12	74.00	-25.88	HORIZONTAL	Peak
3	4960.000	47.64	31.65	5.65	36.84	48.10	74.00	-25.90	HORIZONTAL	Peak
4	6851.105	47.69	34.78	5.82	37.15	51.14	74.00	-22.86	HORIZONTAL	Peak
5	7440.000	48.25	36.27	6.22	37.47	53.27	74.00	-20.73	HORIZONTAL	Peak
6	9920.000	44.47	38.65	6.96	37.40	52.68	74.00	-21.32	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:High
Rata data:1M/bits



		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	1277.012	50.01	25.14	2.50	38.33	39.32	74.00	-34.68	VERTICAL	Peak
2	4130.904	50.42	30.01	4.60	36.80	48.23	74.00	-25.77	VERTICAL	Peak
3	4960.000	47.30	31.65	5.65	36.84	47.76	74.00	-26.24	VERTICAL	Peak
4	6993.511	47.34	35.00	5.81	37.25	50.90	74.00	-23.10	VERTICAL	Peak
5	7440.000	47.58	36.27	6.22	37.47	52.60	74.00	-21.40	VERTICAL	Peak
6	9920.000	44.55	38.65	6.96	37.40	52.76	74.00	-21.24	VERTICAL	Peak

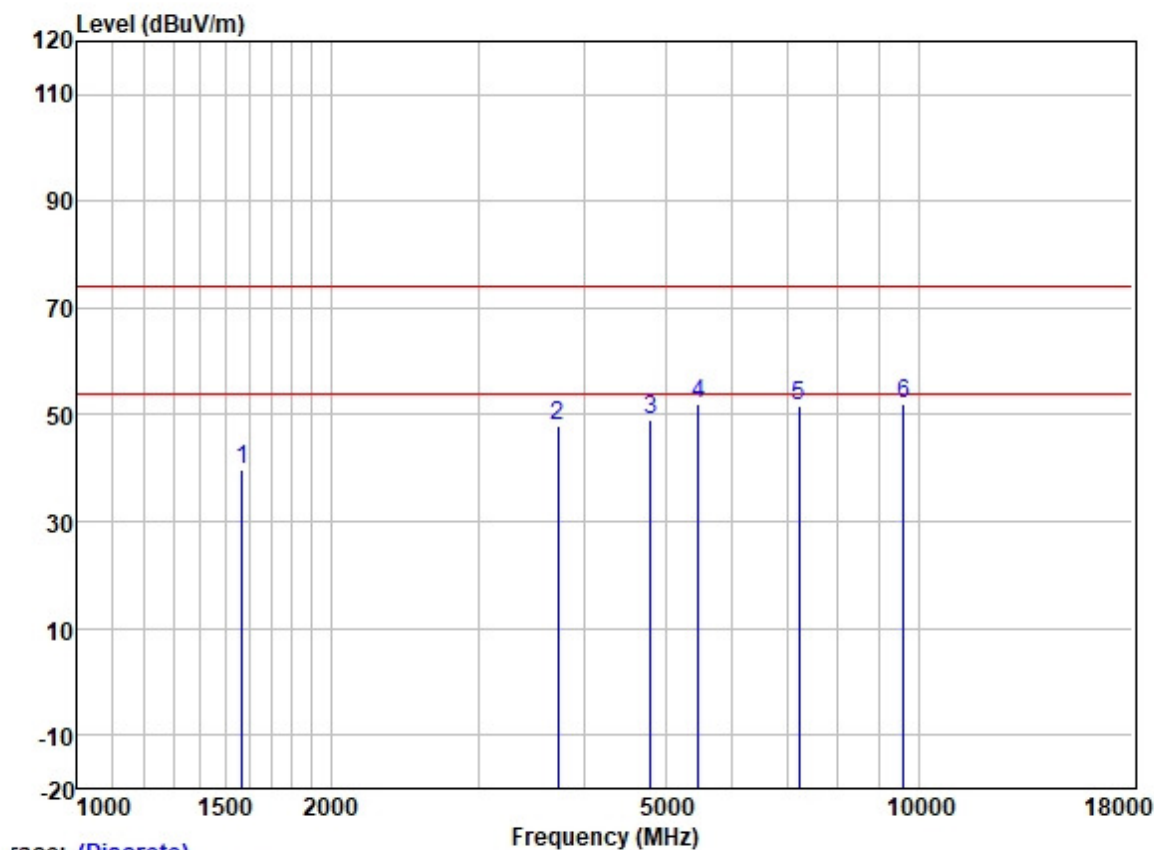
Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; ; Channel: Low
Rata data: 2M/bits



race: (Discrete)

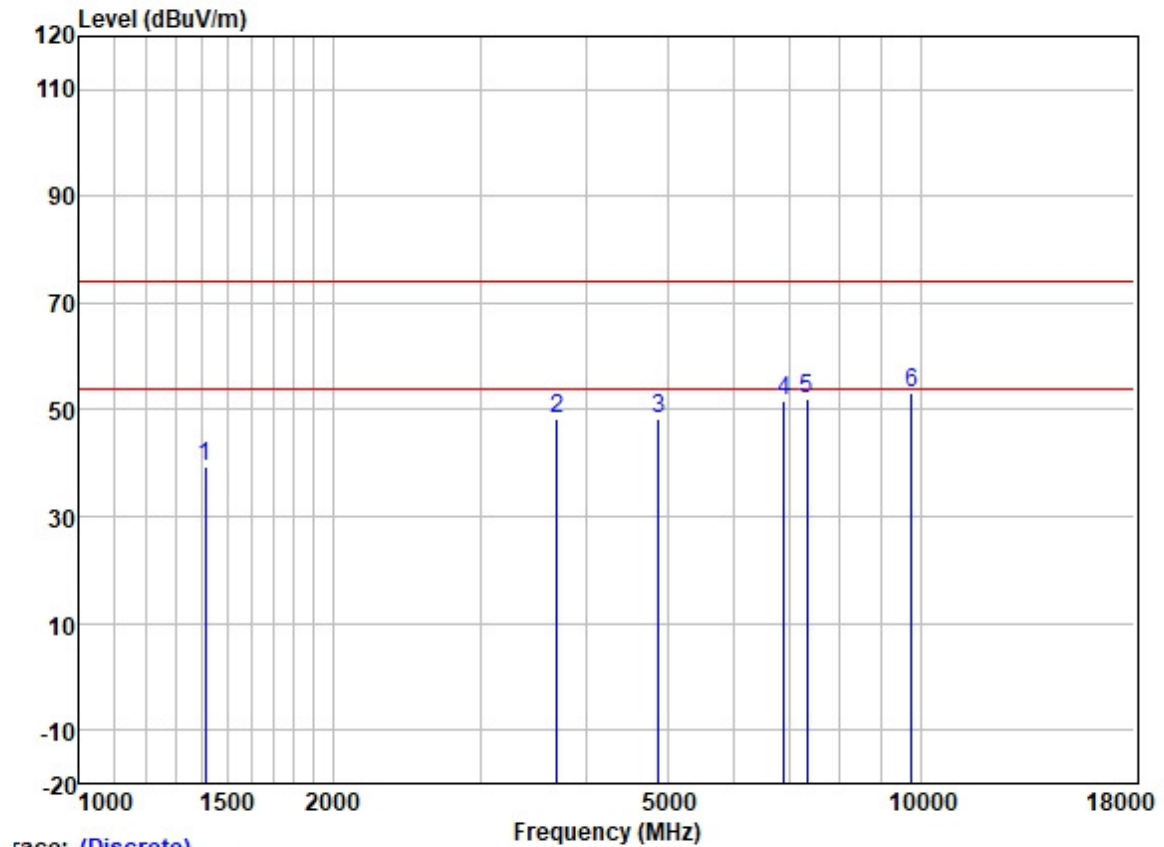
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1456.796	49.78	25.46	2.72	38.17	39.79	74.00	-34.21	HORIZONTAL Peak
2	4027.532	50.60	29.83	4.60	36.80	48.23	74.00	-25.77	HORIZONTAL Peak
3	4804.000	48.62	31.42	5.40	36.83	48.61	74.00	-25.39	HORIZONTAL Peak
4	5329.564	50.60	31.77	6.07	36.88	51.56	74.00	-22.44	HORIZONTAL Peak
5	7206.000	47.24	35.54	5.98	37.38	51.38	74.00	-22.62	HORIZONTAL Peak
6	9608.000	44.93	38.37	7.07	37.42	52.95	74.00	-21.05	HORIZONTAL Peak

Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:Low
Rata data:2M/bits



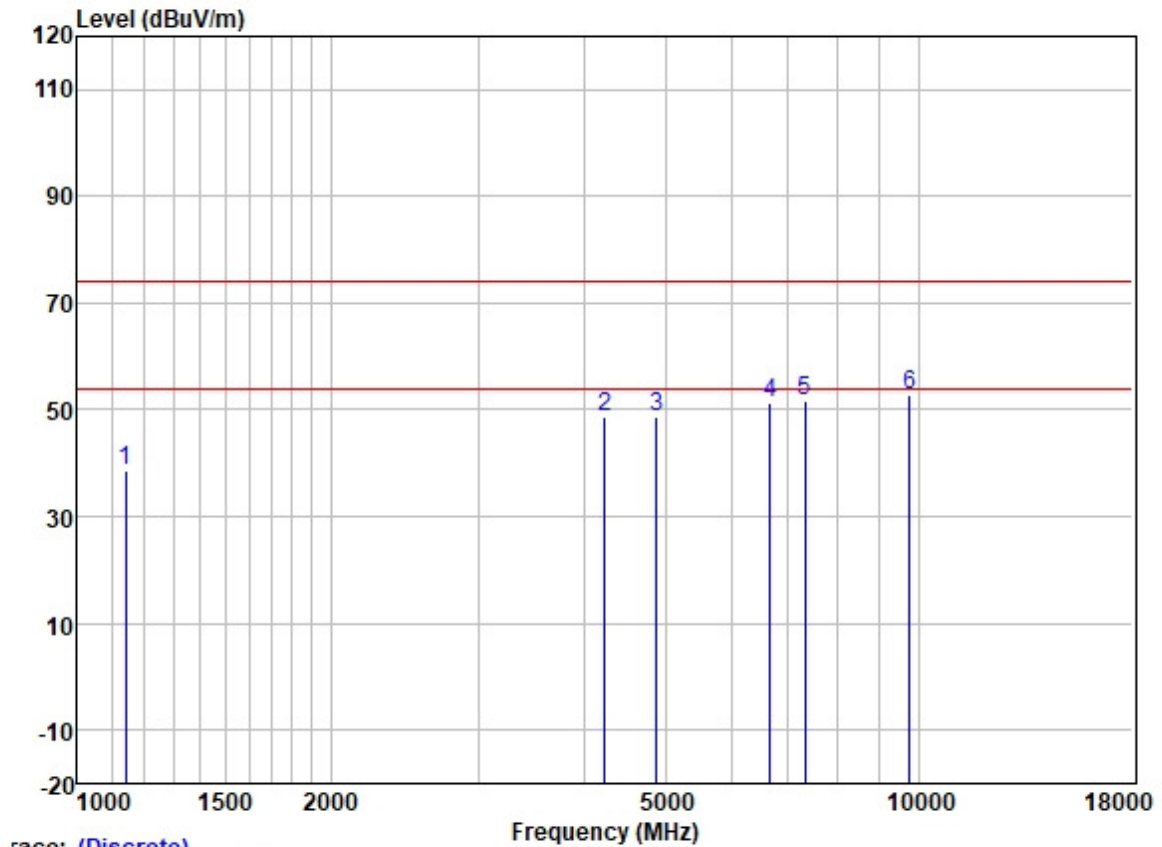
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1571.609	49.30	25.55	2.80	38.00	39.65	74.00	-34.35	VERTICAL	Peak
2	3726.331	50.95	29.31	4.57	36.87	47.96	74.00	-26.04	VERTICAL	Peak
3	4804.000	48.92	31.42	5.40	36.83	48.91	74.00	-25.09	VERTICAL	Peak
4	5472.931	50.74	31.80	6.31	36.88	51.97	74.00	-22.03	VERTICAL	Peak
5	7206.000	47.60	35.54	5.98	37.38	51.74	74.00	-22.26	VERTICAL	Peak
6	9608.000	44.04	38.37	7.07	37.42	52.06	74.00	-21.94	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle
Rata data:2M/bits



	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	1413.059	49.51	25.41	2.63	38.20	39.35	74.00	-34.65	HORIZONTAL	Peak
2	3701.135	51.48	29.25	4.56	36.88	48.41	74.00	-25.59	HORIZONTAL	Peak
3	4880.000	48.03	31.54	5.50	36.84	48.23	74.00	-25.77	HORIZONTAL	Peak
4	6890.574	48.36	34.85	5.81	37.18	51.84	74.00	-22.16	HORIZONTAL	Peak
5	7320.000	47.17	36.00	6.13	37.43	51.87	74.00	-22.13	HORIZONTAL	Peak
6	9760.000	45.08	38.50	7.02	37.41	53.19	74.00	-20.81	HORIZONTAL	Peak

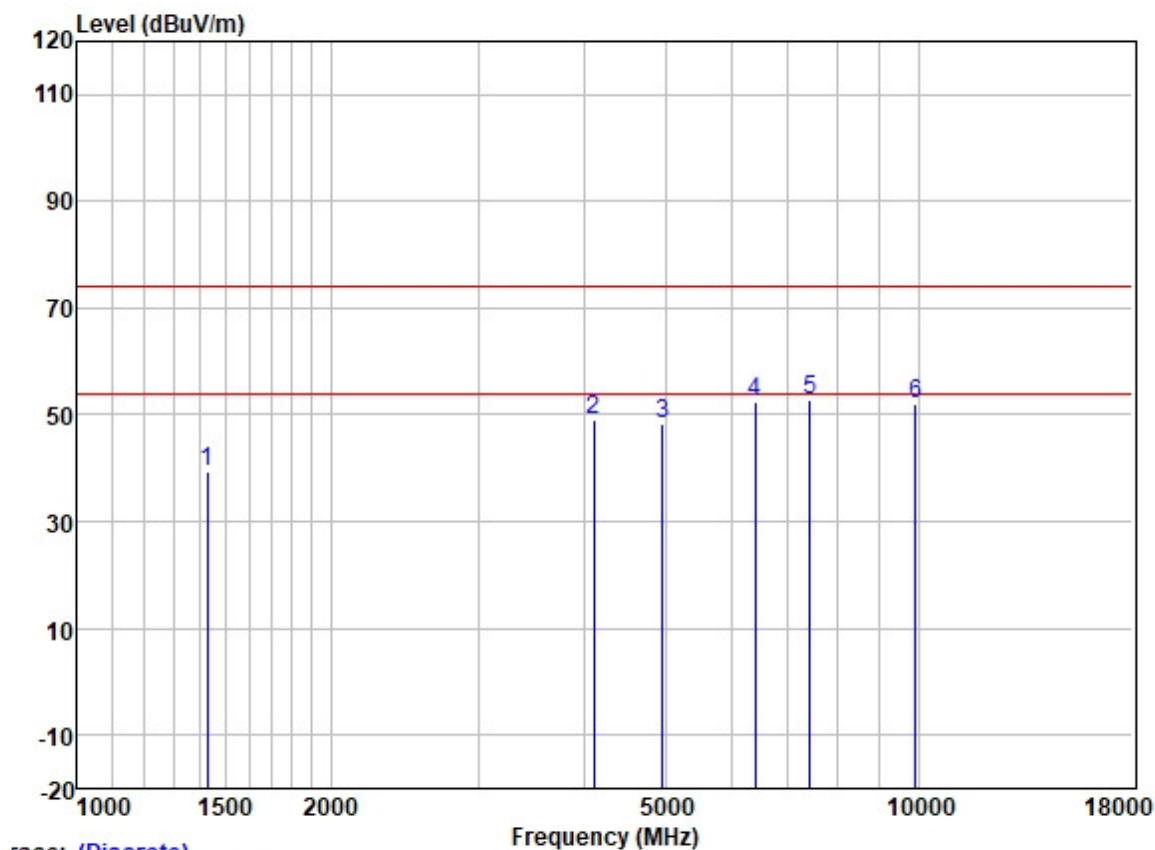
Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:middle
Rata data:2M/bits



race: (Discrete)

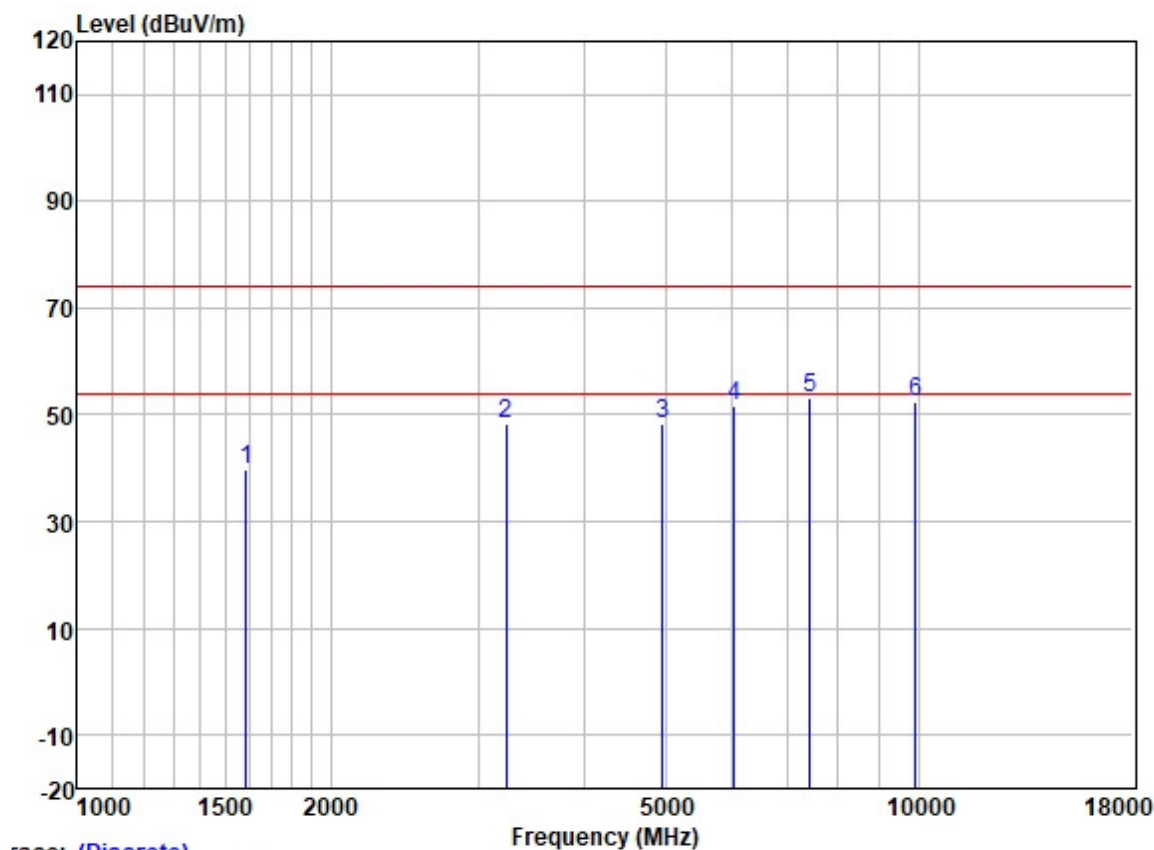
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1139.691	50.37	24.46	2.27	38.42	38.68	74.00	-35.32	VERTICAL	Peak
2	4233.325	50.45	30.26	4.61	36.81	48.51	74.00	-25.49	VERTICAL	Peak
3	4880.000	48.41	31.54	5.50	36.84	48.61	74.00	-25.39	VERTICAL	Peak
4	6657.183	48.27	34.29	5.83	37.06	51.33	74.00	-22.67	VERTICAL	Peak
5	7320.000	46.86	36.00	6.13	37.43	51.56	74.00	-22.44	VERTICAL	Peak
6	9760.000	44.60	38.50	7.02	37.41	52.71	74.00	-21.29	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:High
Rata data:2M/bits



		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	1428.699	49.52	25.43	2.65	38.20	39.40	74.00	-34.60	HORIZONTAL	Peak
2	4115.240	51.17	29.96	4.60	36.80	48.93	74.00	-25.07	HORIZONTAL	Peak
3	4960.000	47.92	31.65	5.65	36.84	48.38	74.00	-25.62	HORIZONTAL	Peak
4	6396.440	49.75	33.74	5.90	36.98	52.41	74.00	-21.59	HORIZONTAL	Peak
5	7440.000	47.81	36.27	6.22	37.47	52.83	74.00	-21.17	HORIZONTAL	Peak
6	9920.000	43.84	38.65	6.96	37.40	52.05	74.00	-21.95	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:High
Rata data:12M/bits



race: (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	1588.382	49.49	25.57	2.80	37.98	39.88	74.00	-34.12	VERTICAL	Peak
2	3238.047	52.68	28.67	4.02	37.06	48.31	74.00	-25.69	VERTICAL	Peak
3	4960.000	47.97	31.65	5.65	36.84	48.43	74.00	-25.57	VERTICAL	Peak
4	6041.435	49.75	32.48	6.18	36.91	51.50	74.00	-22.50	VERTICAL	Peak
5	7440.000	48.06	36.27	6.22	37.47	53.08	74.00	-20.92	VERTICAL	Peak
6	9920.000	44.38	38.65	6.96	37.40	52.59	74.00	-21.41	VERTICAL	Peak

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2108020938AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2108020938AT

10 Appendix

For Right earbuds

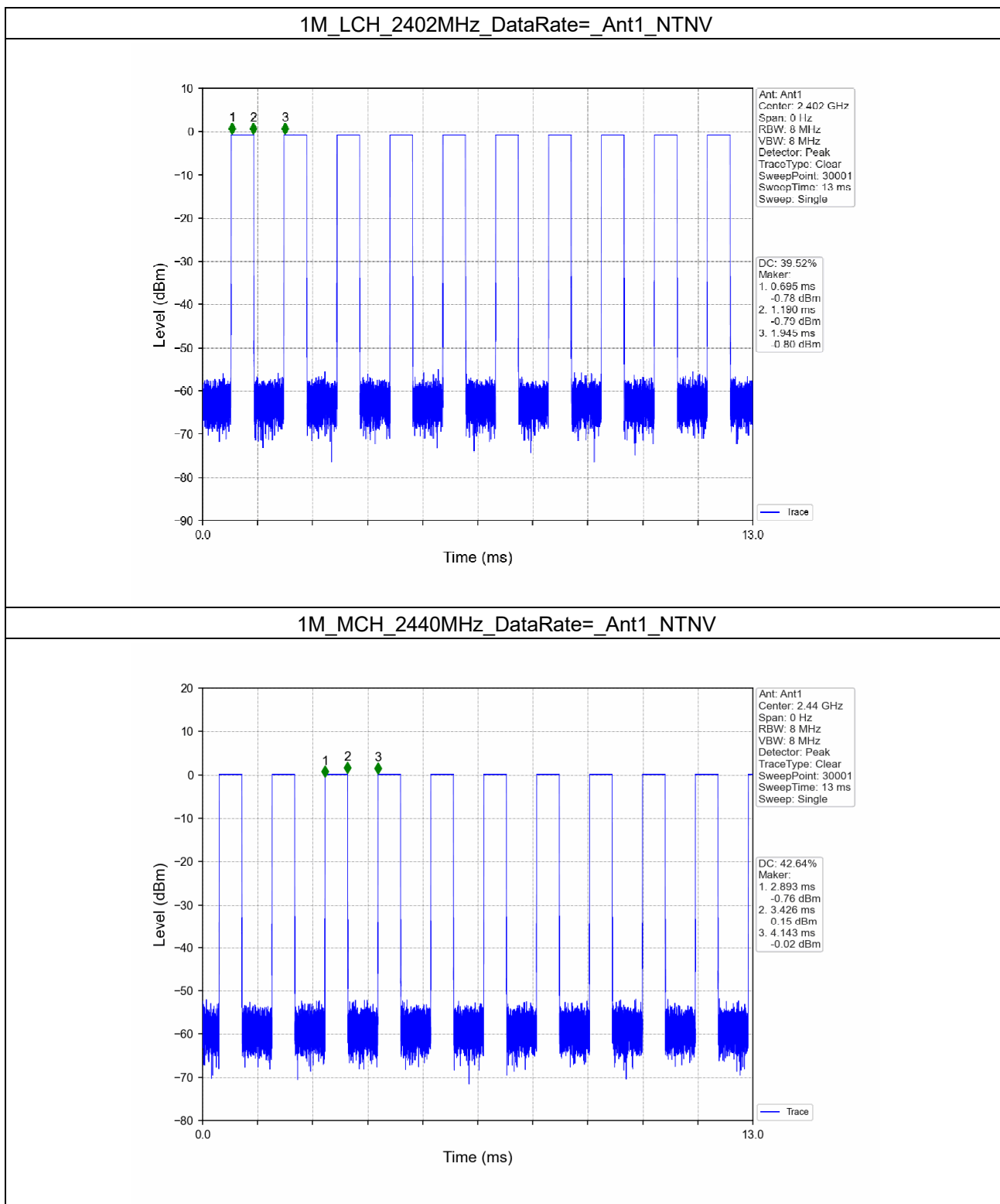
1. Duty Cycle

1.1 Ant1

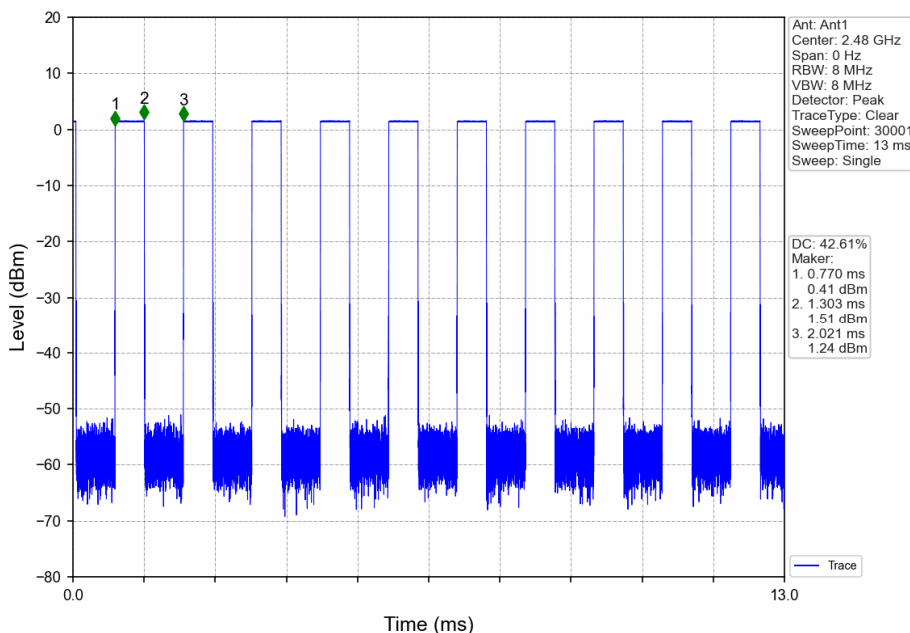
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.494	1.250	39.52	4.03	0.03
		2440	0.533	1.250	42.64	3.70	0.03
		2480	0.533	1.251	42.61	3.71	0.03
2M	SISO	2402	0.233	1.250	18.64	7.30	0.03
		2440	0.234	1.251	18.71	7.28	0.04
		2480	0.233	1.249	18.65	7.29	0.03

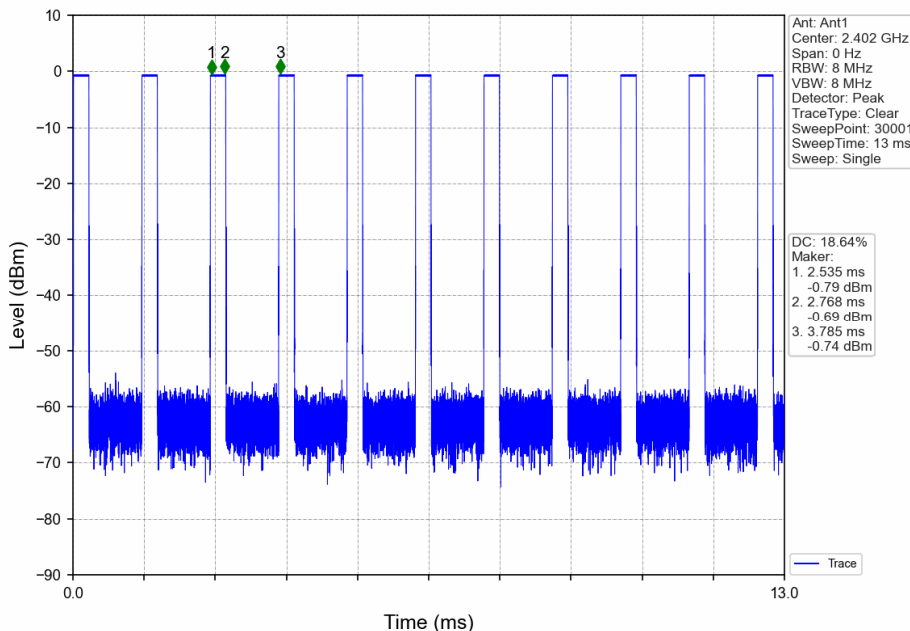
1.1.2 Test Graph



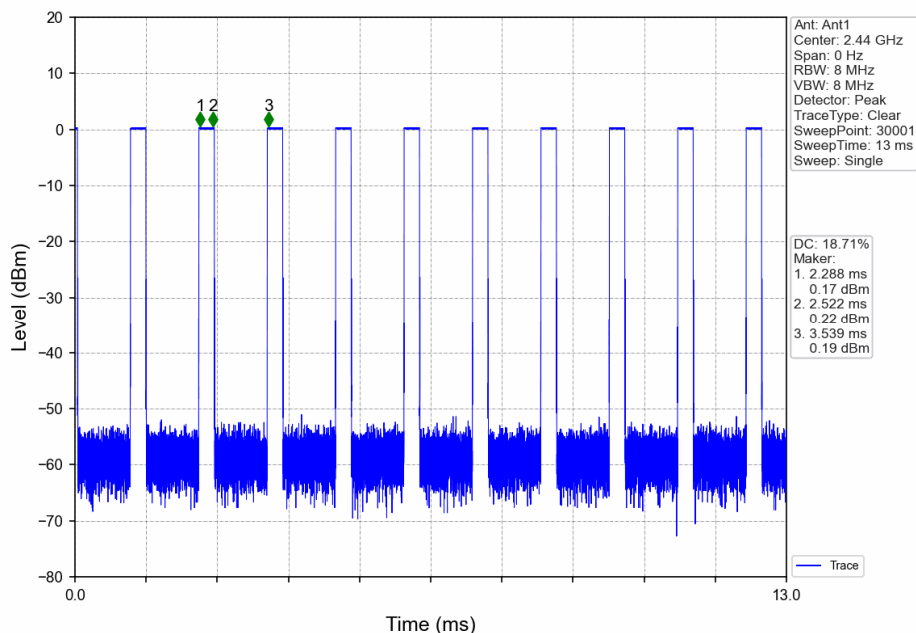
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



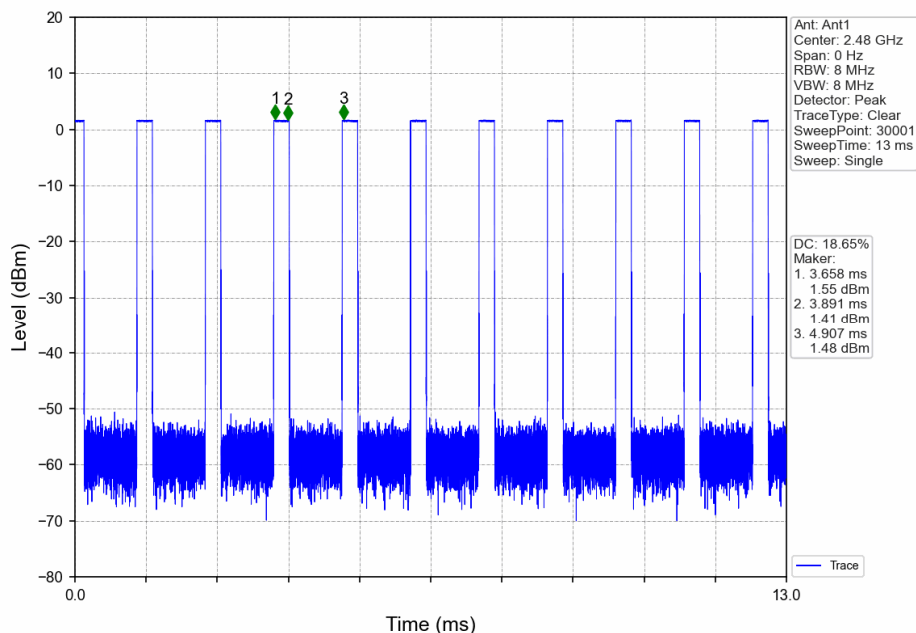
2M_LCH_2402MHz_DataRate=_Ant1_NTNV



2M_MCH_2440MHz_DataRate=_Ant1_NTNV



2M_HCH_2480MHz_DataRate=_Ant1_NTNV



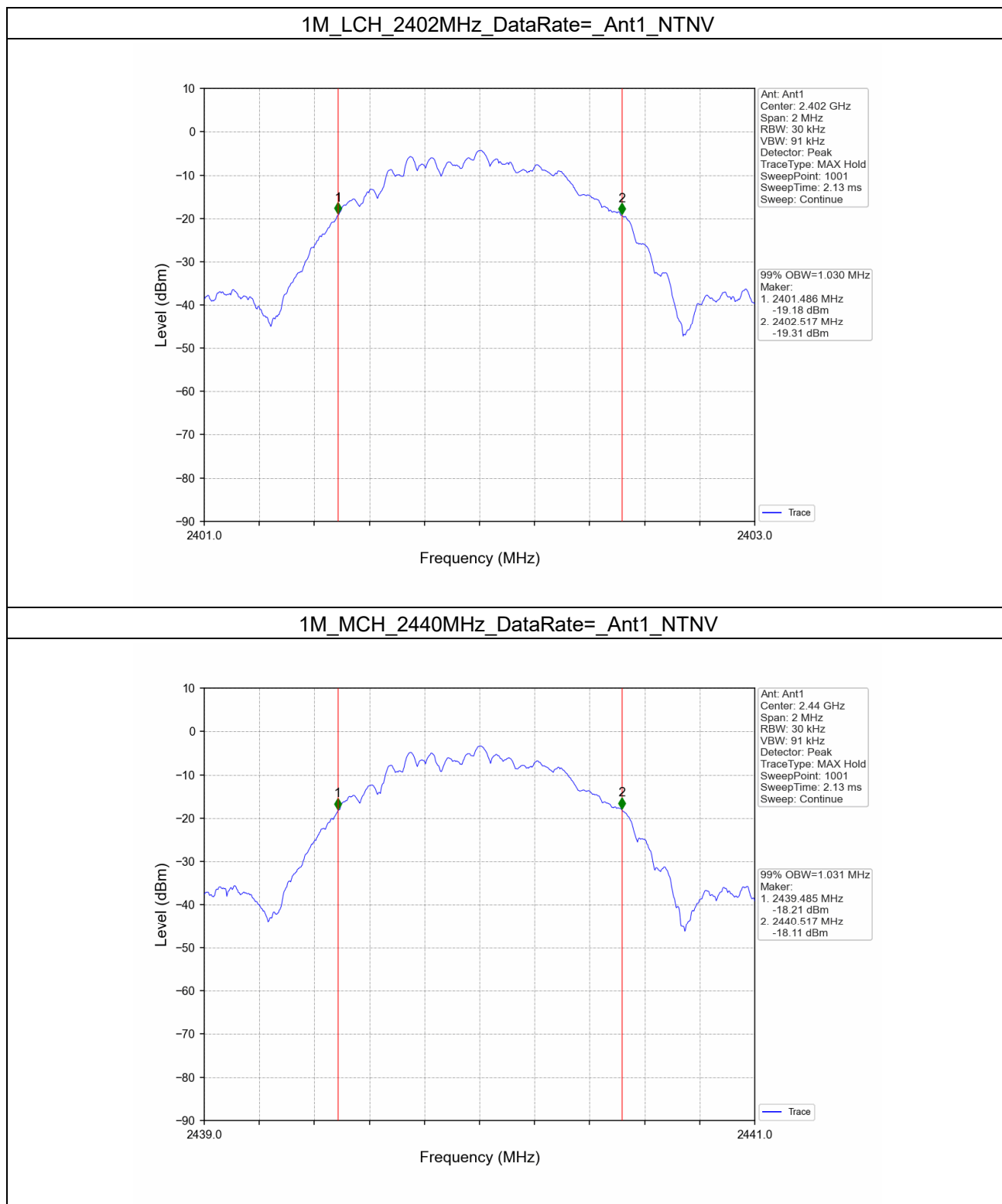
2. Bandwidth

2.1 OBW

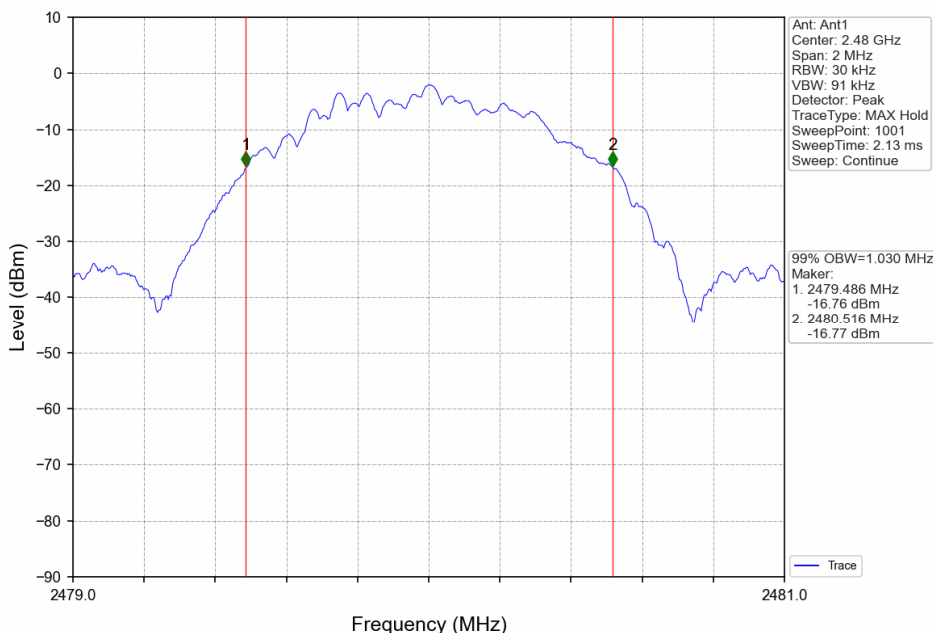
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.030	Pass
		2440	1	1.031	Pass
		2480	1	1.030	Pass
2M	SISO	2402	1	2.039	Pass
		2440	1	2.039	Pass
		2480	1	2.037	Pass

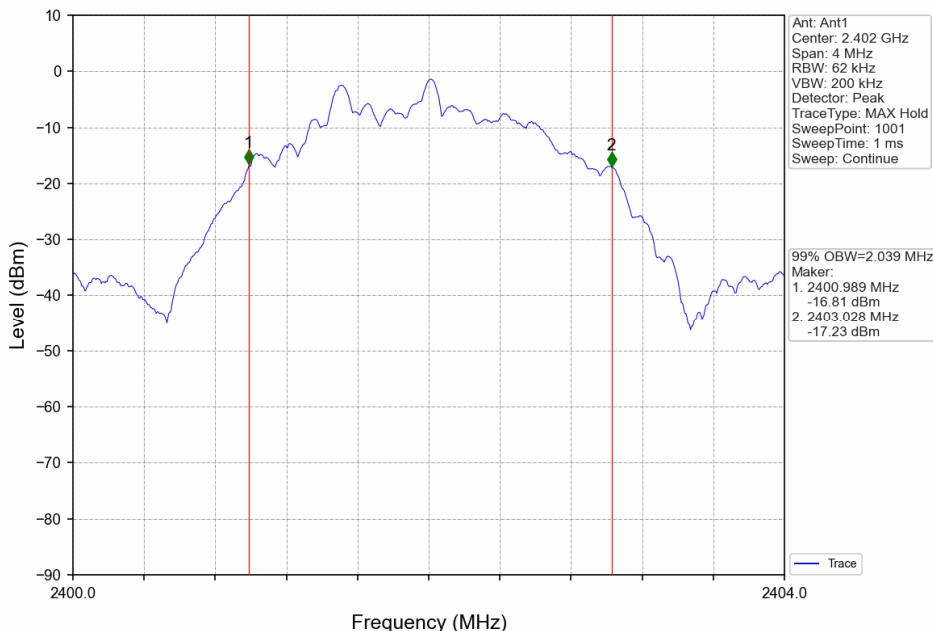
2.1.2 Test Graph



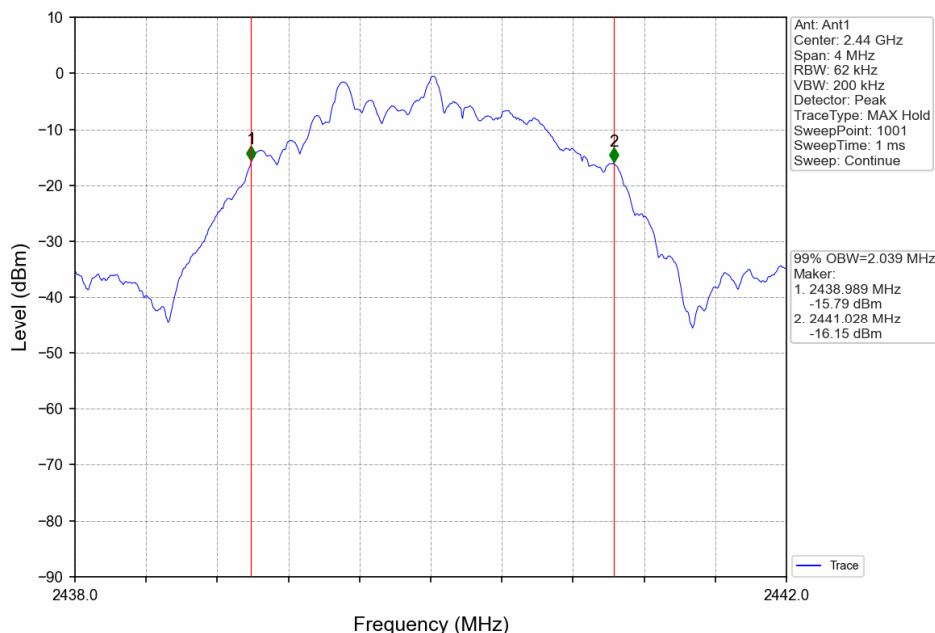
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



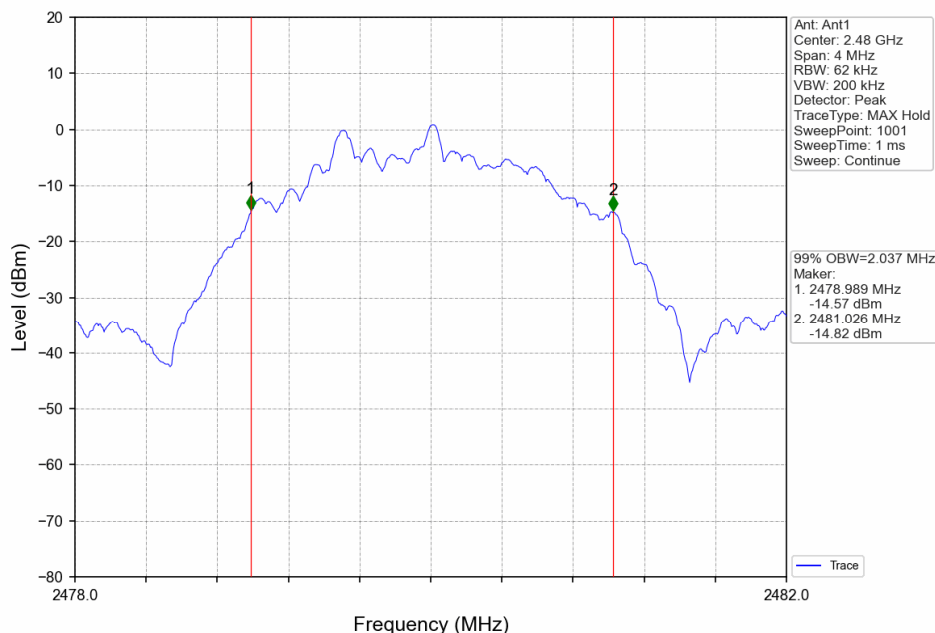
2M_LCH_2402MHz_DataRate=_Ant1_NTNV



2M_MCH_2440MHz_DataRate=_Ant1_NTNV



2M_HCH_2480MHz_DataRate=_Ant1_NTNV



2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.661	≥ 0.5	Pass
		2440	1	0.667	≥ 0.5	Pass
		2480	1	0.656	≥ 0.5	Pass
2M	SISO	2402	1	1.150	≥ 0.5	Pass
		2440	1	1.155	≥ 0.5	Pass
		2480	1	1.157	≥ 0.5	Pass



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