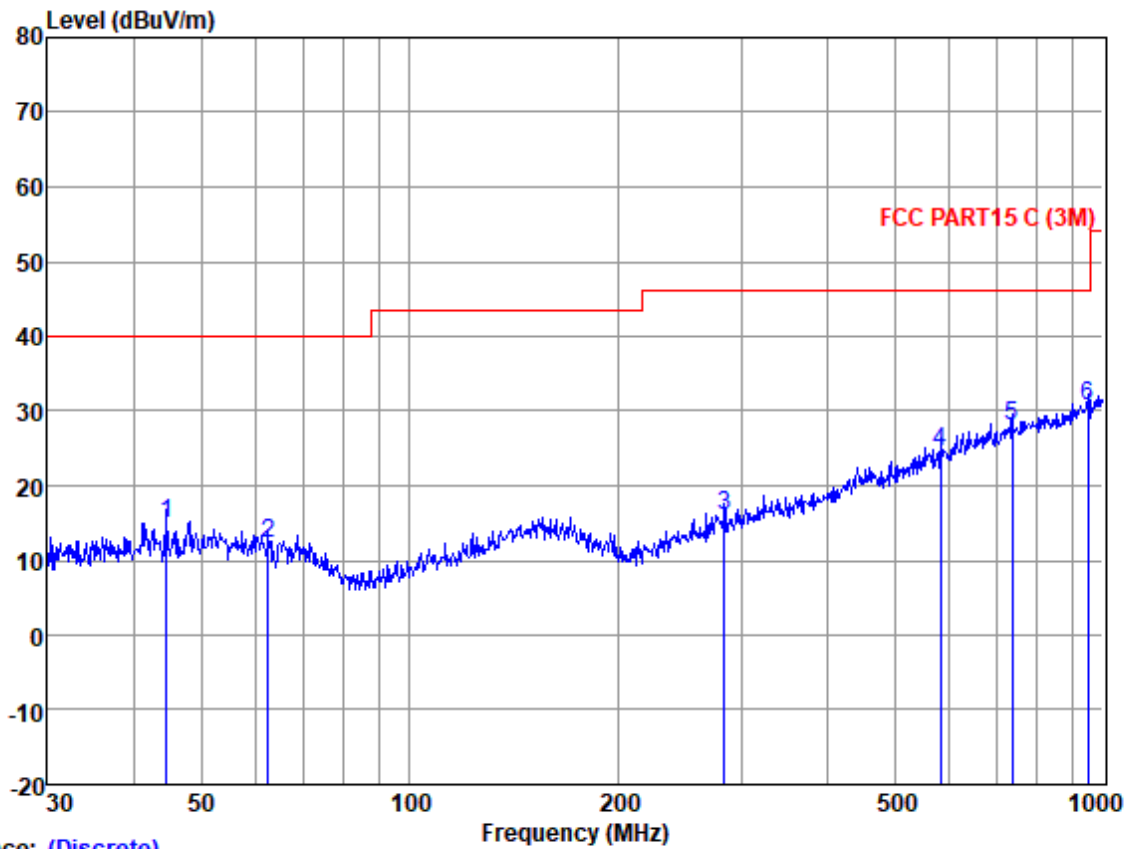


Test mode:04



Trace: (Discrete)

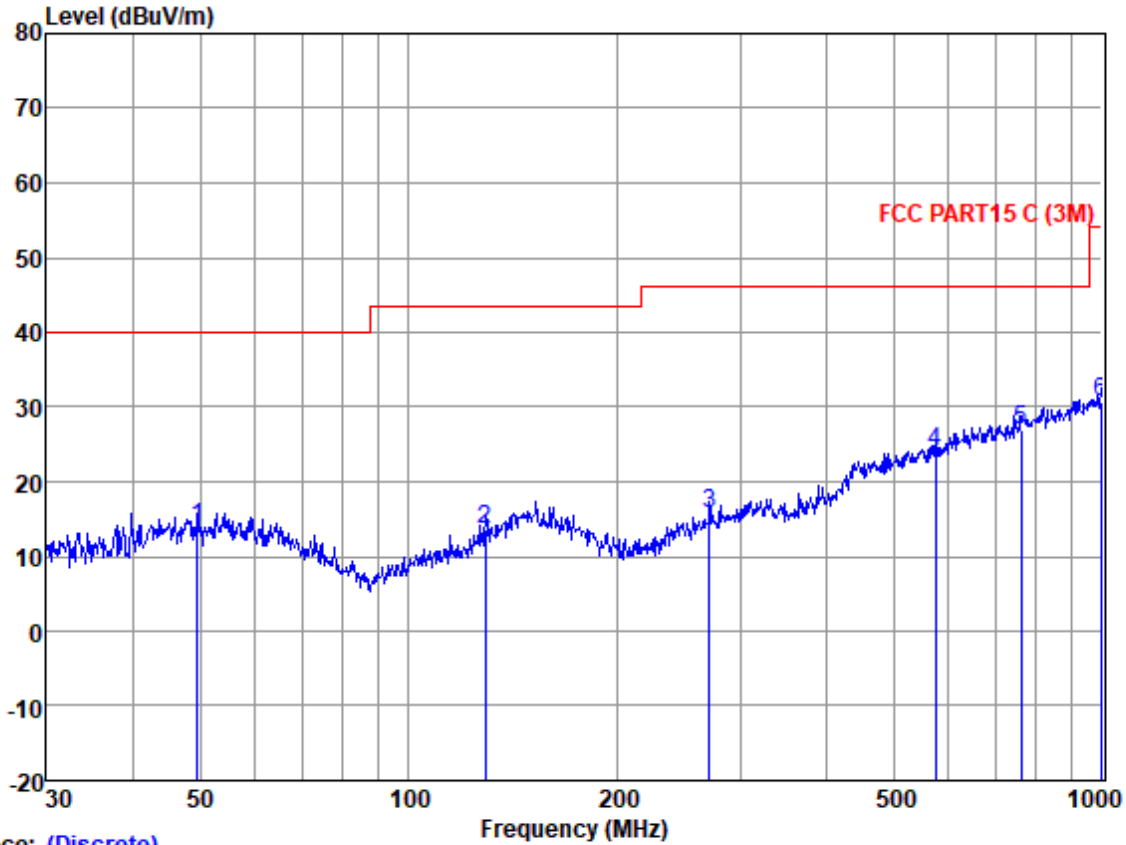
Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

|   | Freq   | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | PoI/Phase  | Remark |
|---|--------|------------|----------------|------------|---------------|----------------|------------|------------|------------|--------|
|   | MHz    | dBuV       | dB/m           | dB         | dB            | dBuV/m         | dBuV/m     | dBuV       |            |        |
| 1 | 44.59  | 27.21      | 13.83          | 1.12       | 27.17         | 14.99          | 40.00      | -25.01     | HORIZONTAL | QP     |
| 2 | 62.43  | 24.95      | 13.06          | 1.30       | 27.15         | 12.16          | 40.00      | -27.84     | HORIZONTAL | QP     |
| 3 | 283.98 | 26.12      | 13.28          | 3.11       | 26.56         | 15.95          | 46.00      | -30.05     | HORIZONTAL | QP     |
| 4 | 582.74 | 28.53      | 19.25          | 5.06       | 28.19         | 24.65          | 46.00      | -21.35     | HORIZONTAL | QP     |
| 5 | 739.66 | 28.18      | 22.00          | 5.93       | 28.11         | 28.00          | 46.00      | -18.00     | HORIZONTAL | QP     |
| 6 | 948.76 | 27.38      | 23.90          | 7.12       | 27.74         | 30.66          | 46.00      | -15.34     | HORIZONTAL | QP     |



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Test mode:05



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

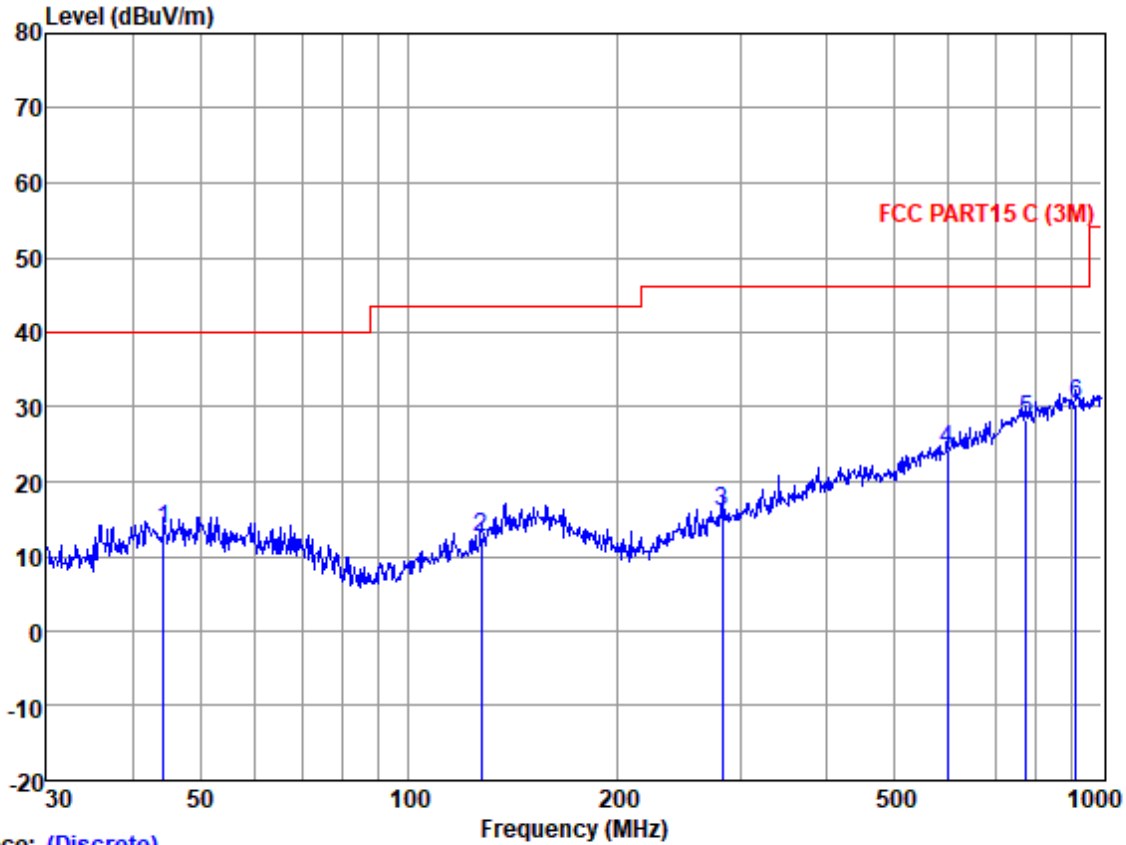
|   | Freq   | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | PoI/Phase | Remark |
|---|--------|------------|----------------|------------|---------------|----------------|------------|------------|-----------|--------|
|   | MHz    | dBuV       | dB/m           | dB         | dB            | dBuV/m         | dBuV/m     | dBuV       |           |        |
| 1 | 49.53  | 26.05      | 13.92          | 1.14       | 27.17         | 13.94          | 40.00      | -26.06     | VERTICAL  | QP     |
| 2 | 129.01 | 26.72      | 11.95          | 1.96       | 27.00         | 13.63          | 43.50      | -29.87     | VERTICAL  | QP     |
| 3 | 271.32 | 26.39      | 12.75          | 3.06       | 26.58         | 15.62          | 46.00      | -30.38     | VERTICAL  | QP     |
| 4 | 574.63 | 28.09      | 19.05          | 4.98       | 28.17         | 23.95          | 46.00      | -22.05     | VERTICAL  | QP     |
| 5 | 763.38 | 26.87      | 22.20          | 6.05       | 28.07         | 27.05          | 46.00      | -18.95     | VERTICAL  | QP     |
| 6 | 996.50 | 26.64      | 24.27          | 7.43       | 27.66         | 30.68          | 54.00      | -23.32     | VERTICAL  | QP     |



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Test mode:05



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

|   | Freq   | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | PoI/Phase  | Remark |
|---|--------|------------|----------------|------------|---------------|----------------|------------|------------|------------|--------|
|   | MHz    | dBuV       | dB/m           | dB         | dB            | dBuV/m         | dBuV/m     | dBuV       |            |        |
| 1 | 44.28  | 25.81      | 13.81          | 1.12       | 27.17         | 13.57          | 40.00      | -26.43     | HORIZONTAL | QP     |
| 2 | 127.22 | 25.95      | 11.70          | 1.94       | 27.00         | 12.59          | 43.50      | -30.91     | HORIZONTAL | QP     |
| 3 | 282.99 | 26.22      | 13.25          | 3.10       | 26.56         | 16.01          | 46.00      | -29.99     | HORIZONTAL | QP     |
| 4 | 597.22 | 27.56      | 19.80          | 5.14       | 28.21         | 24.29          | 46.00      | -21.71     | HORIZONTAL | QP     |
| 5 | 776.88 | 27.97      | 22.28          | 6.08       | 28.05         | 28.28          | 46.00      | -17.72     | HORIZONTAL | QP     |
| 6 | 916.07 | 27.79      | 23.53          | 6.96       | 27.82         | 30.46          | 46.00      | -15.54     | HORIZONTAL | QP     |



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**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

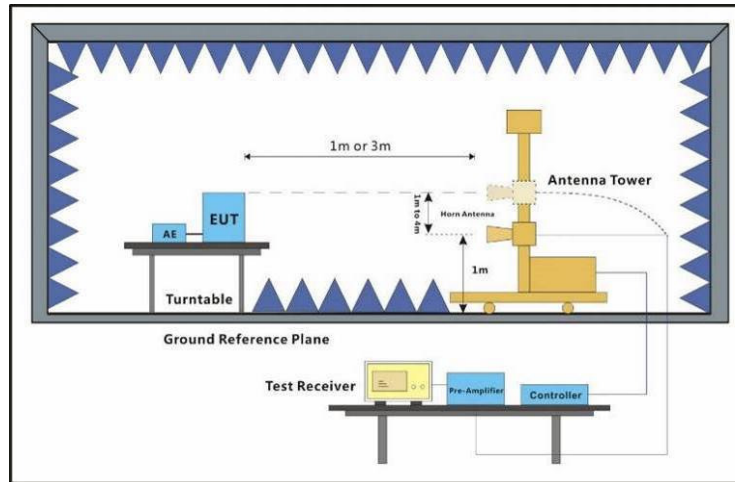
**7.8.2 Test Mode Description**

| 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



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**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.

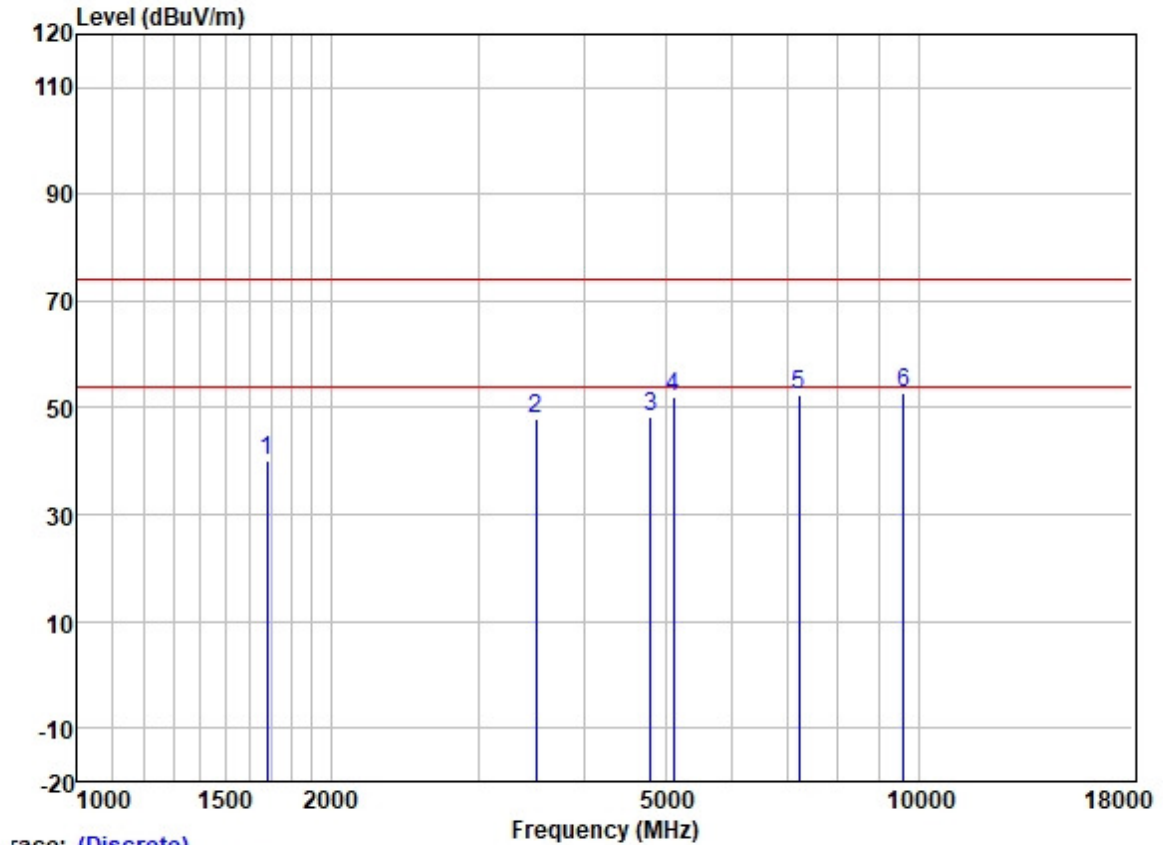
**Remark:**

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



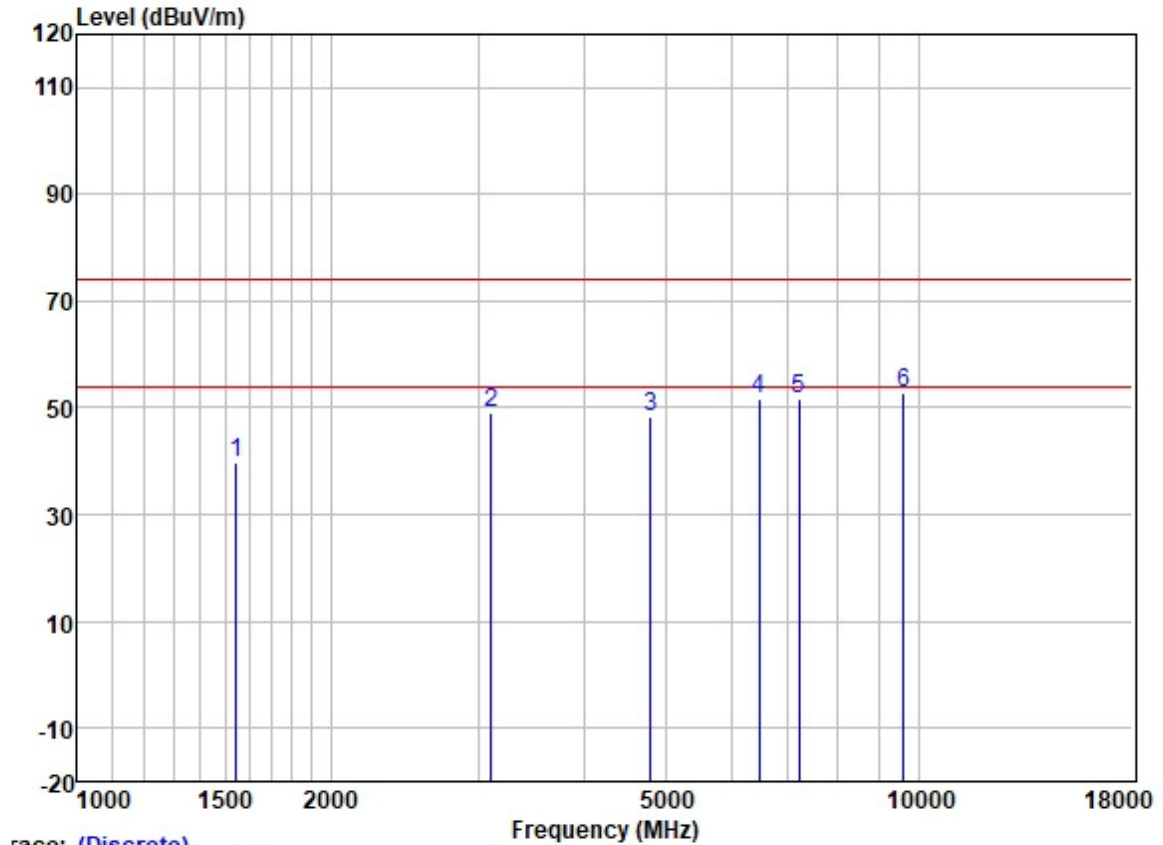
Trace: (Discrete)

|      | ReadAntenna | Cable | Preamp | Limit | Over   |           |        |        |                 |
|------|-------------|-------|--------|-------|--------|-----------|--------|--------|-----------------|
| Freq | Level       | Loss  | Factor | Line  | Limit  | Pol/Phase | Remark |        |                 |
| MHz  | dBuV        | dB/m  | dB     | dB    | 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 |



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



Trace: (Discrete)

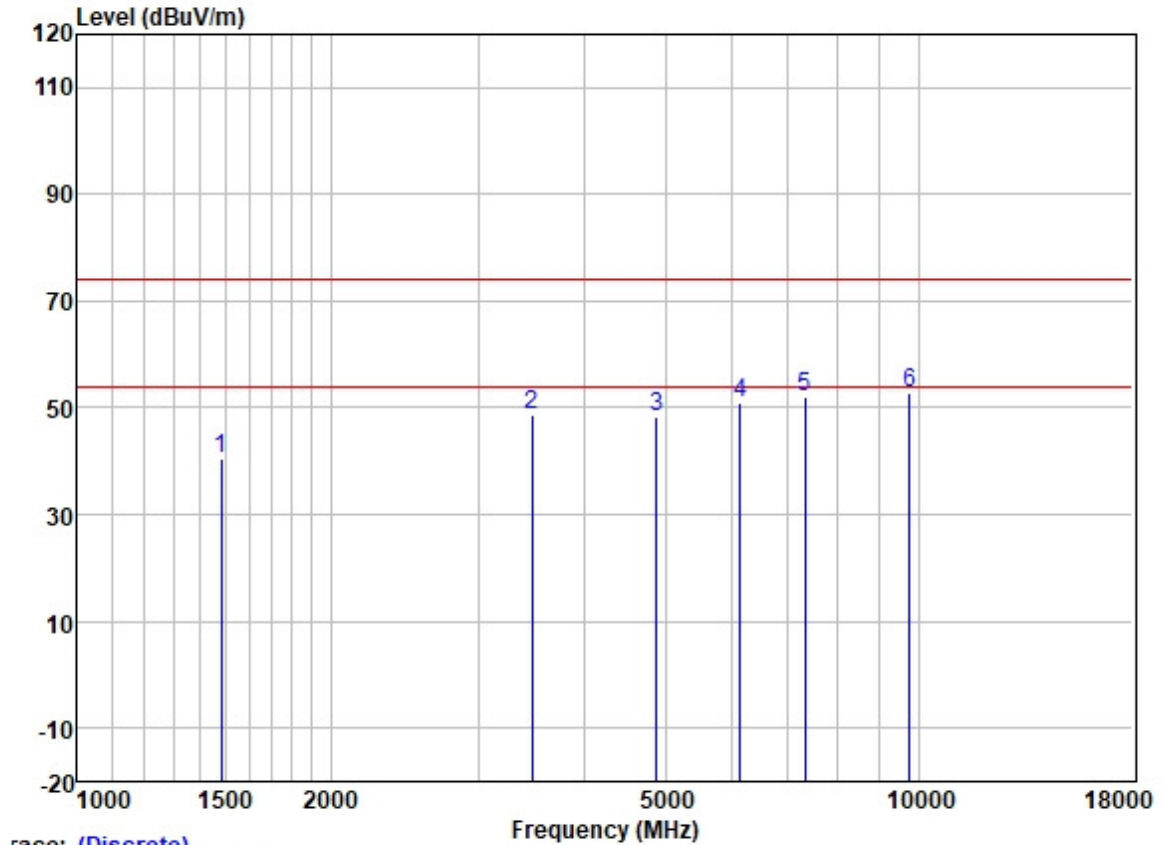
|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit   | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|--------------|-----------|--------|
|   | MHz       | dBuV          | dB/m         | dB          | dB            | 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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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle  
Rata data:1M/bits



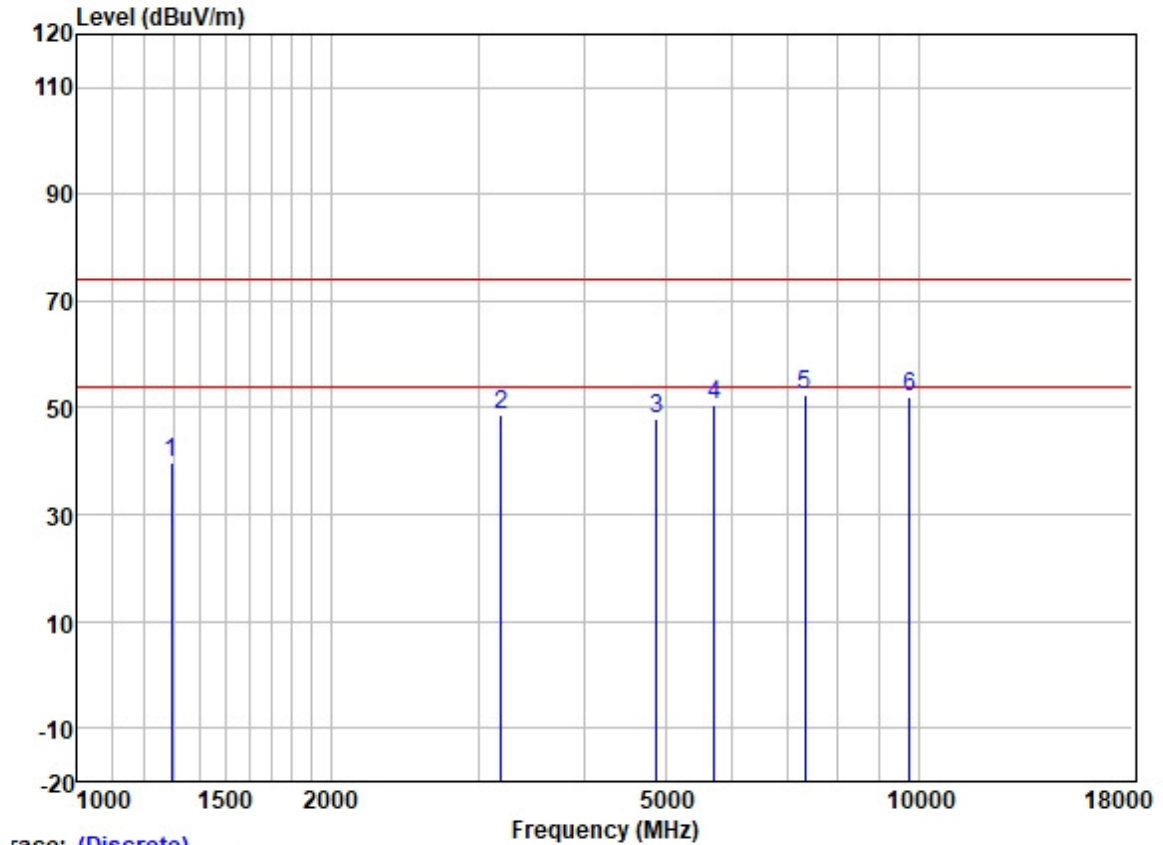
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit   | Pol/Phase  | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|--------------|------------|--------|
|   | MHz       | dBuV          | dB/m         | dB          | dB            | 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   |



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



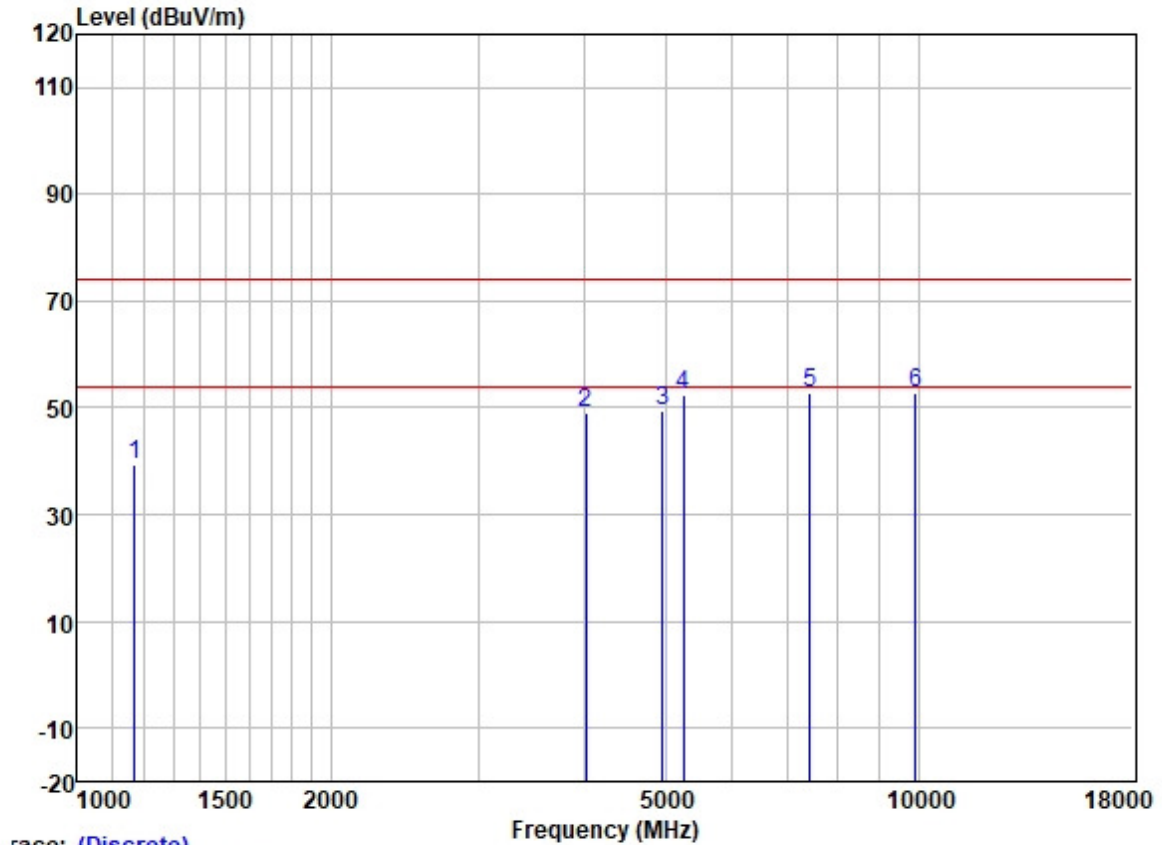
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



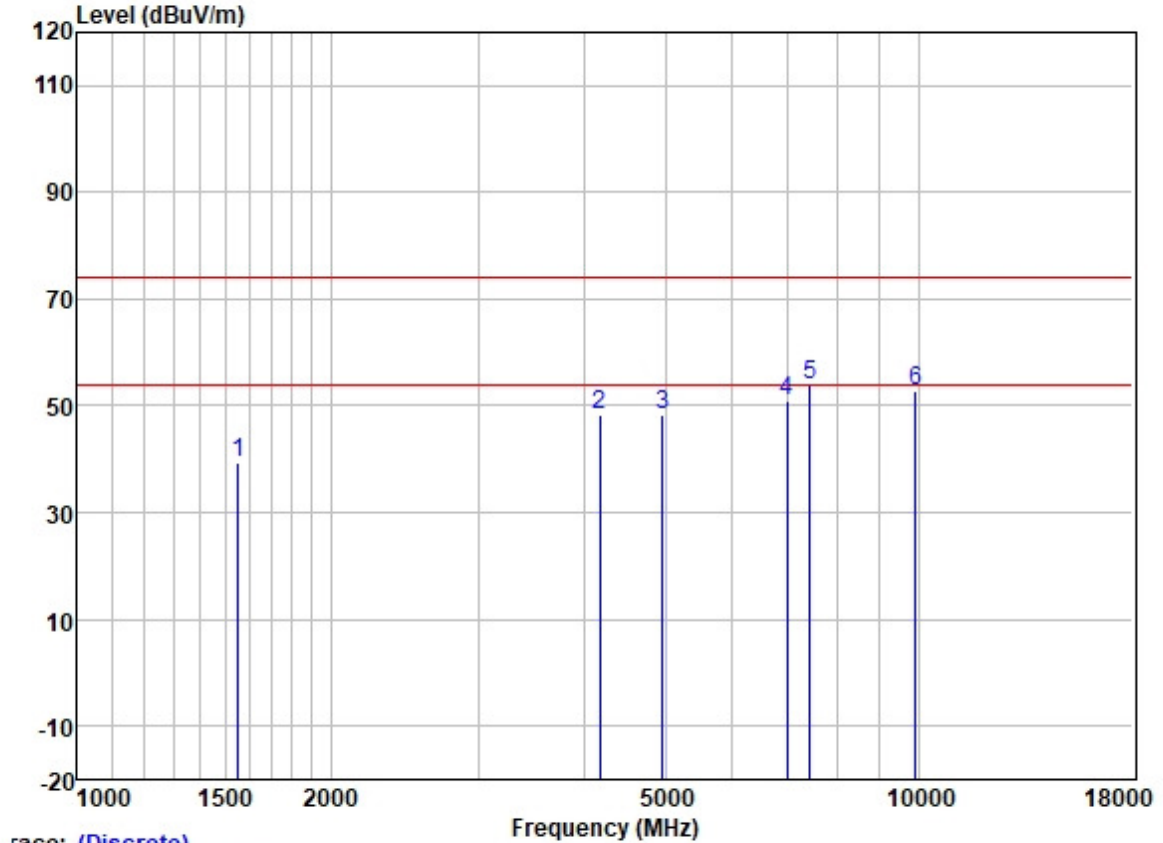
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit  | Over   | 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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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:High  
Rata data:1M/bits



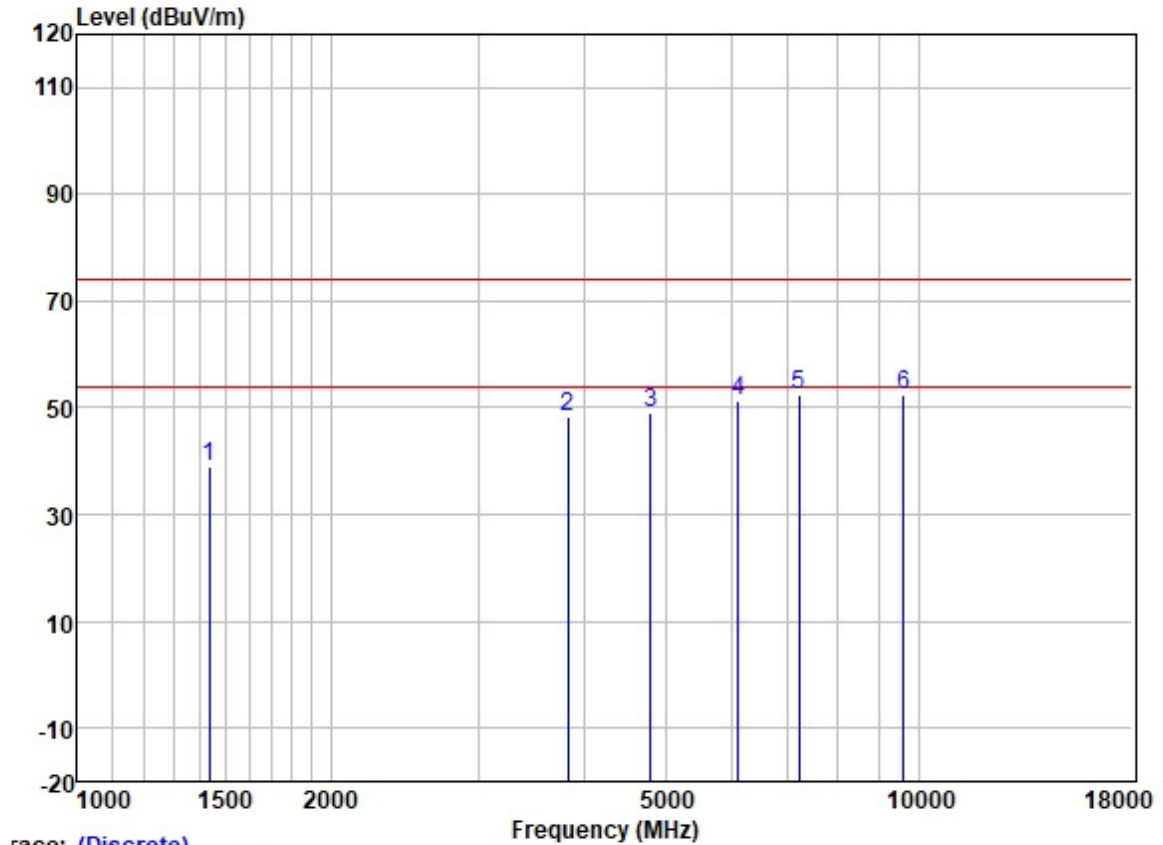
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit  | Over   | 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   |



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



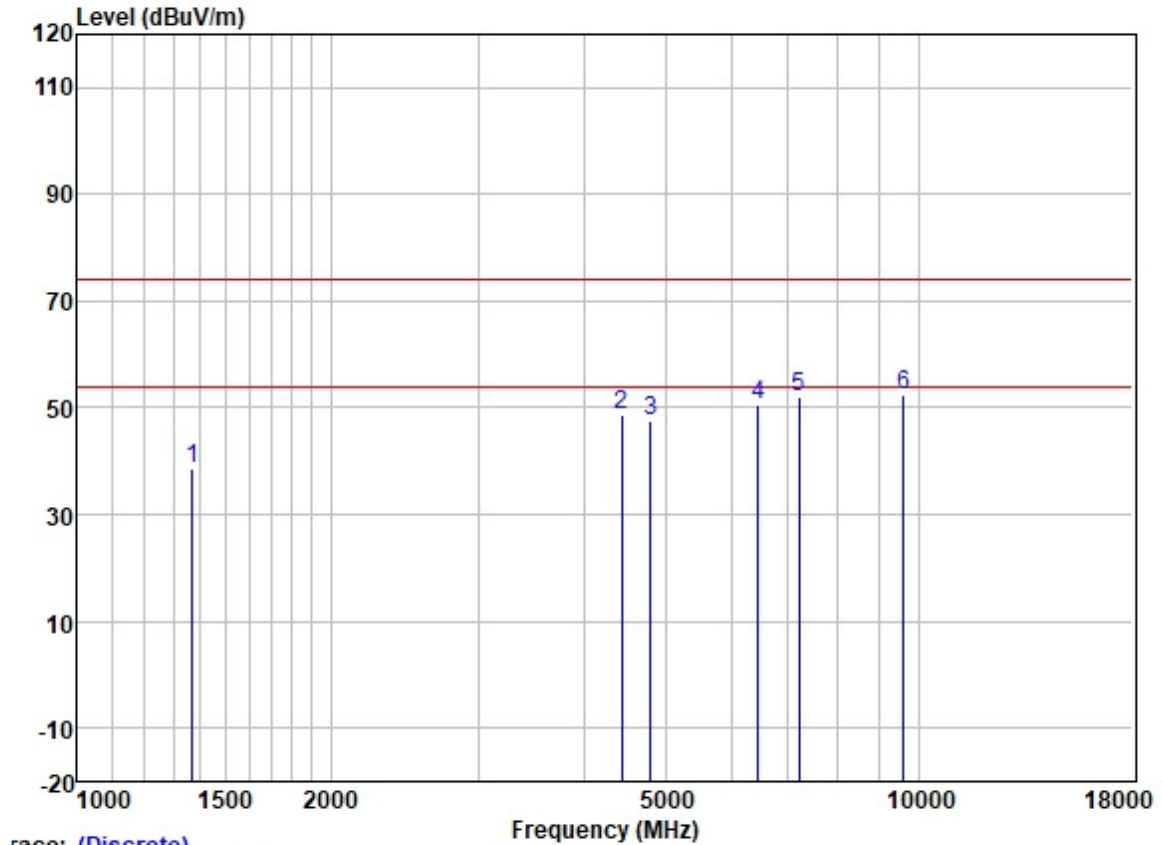
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:Low  
Rata data:2M/bits



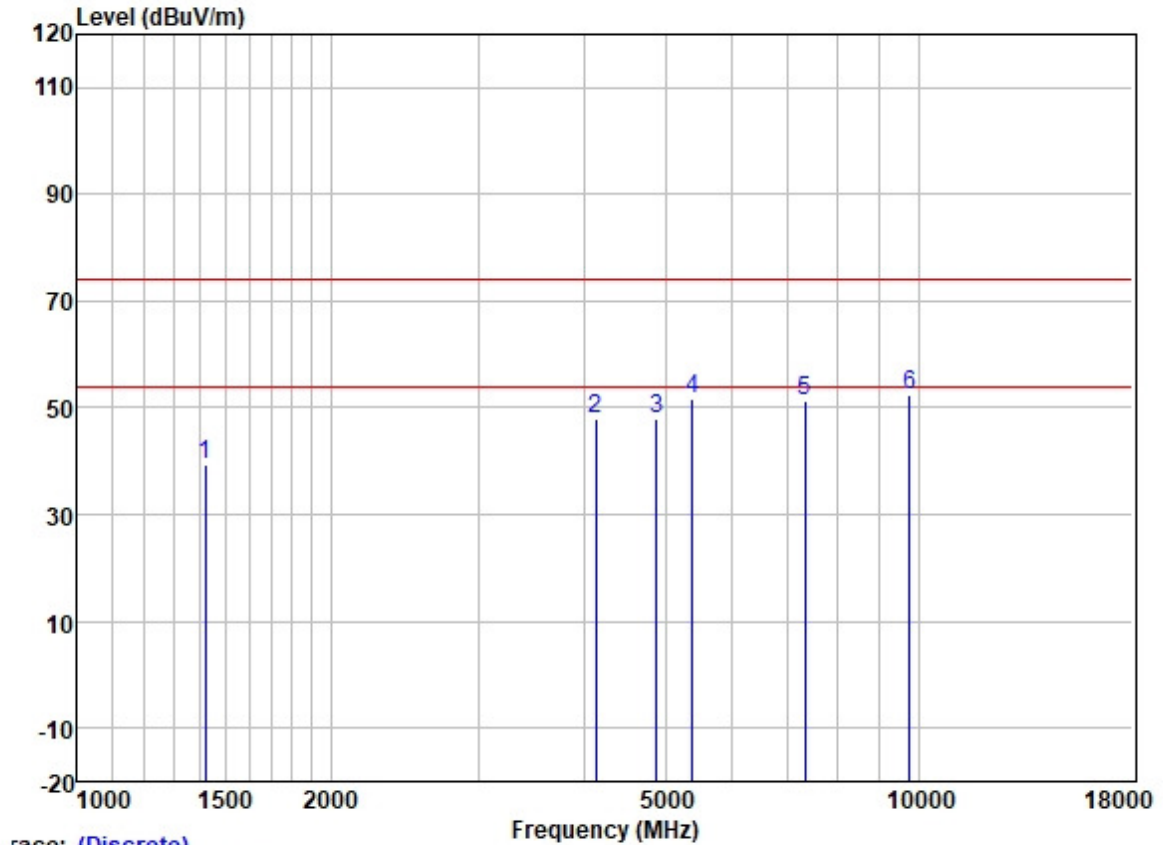
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



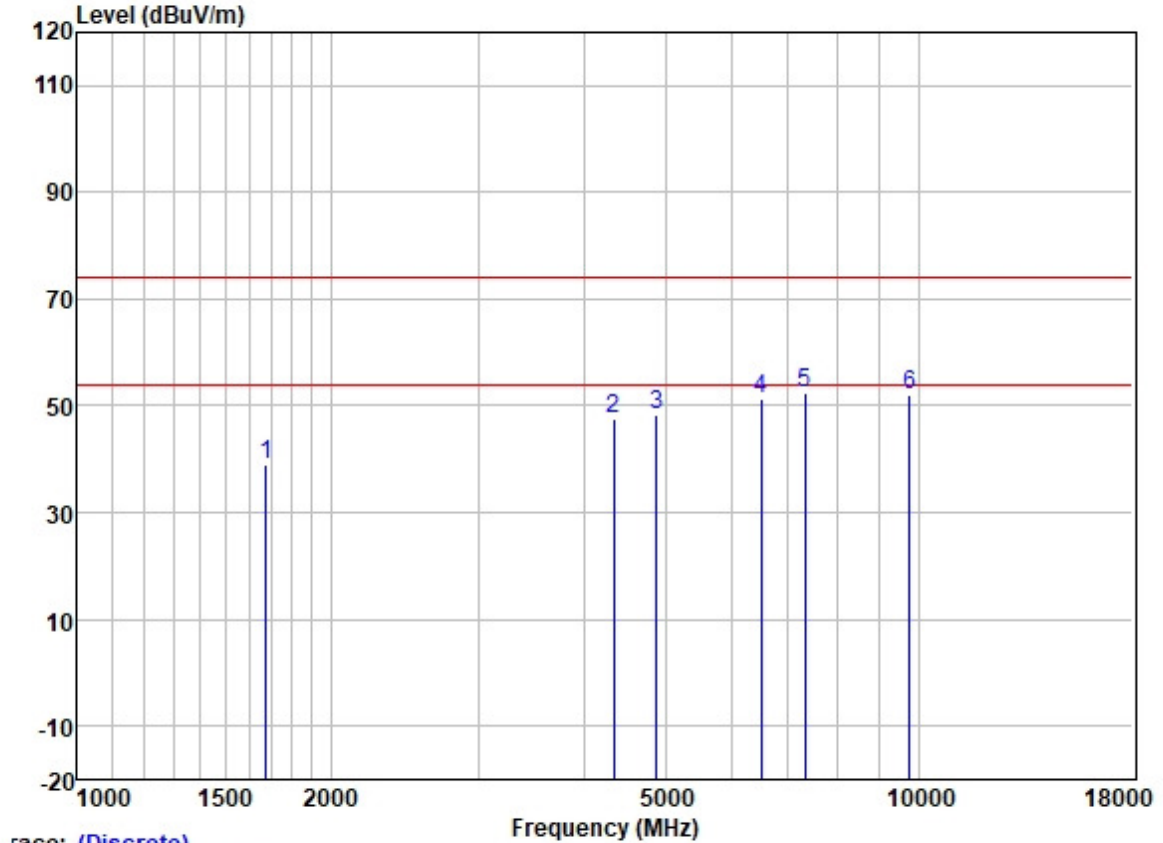
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



Trace: (Discrete)

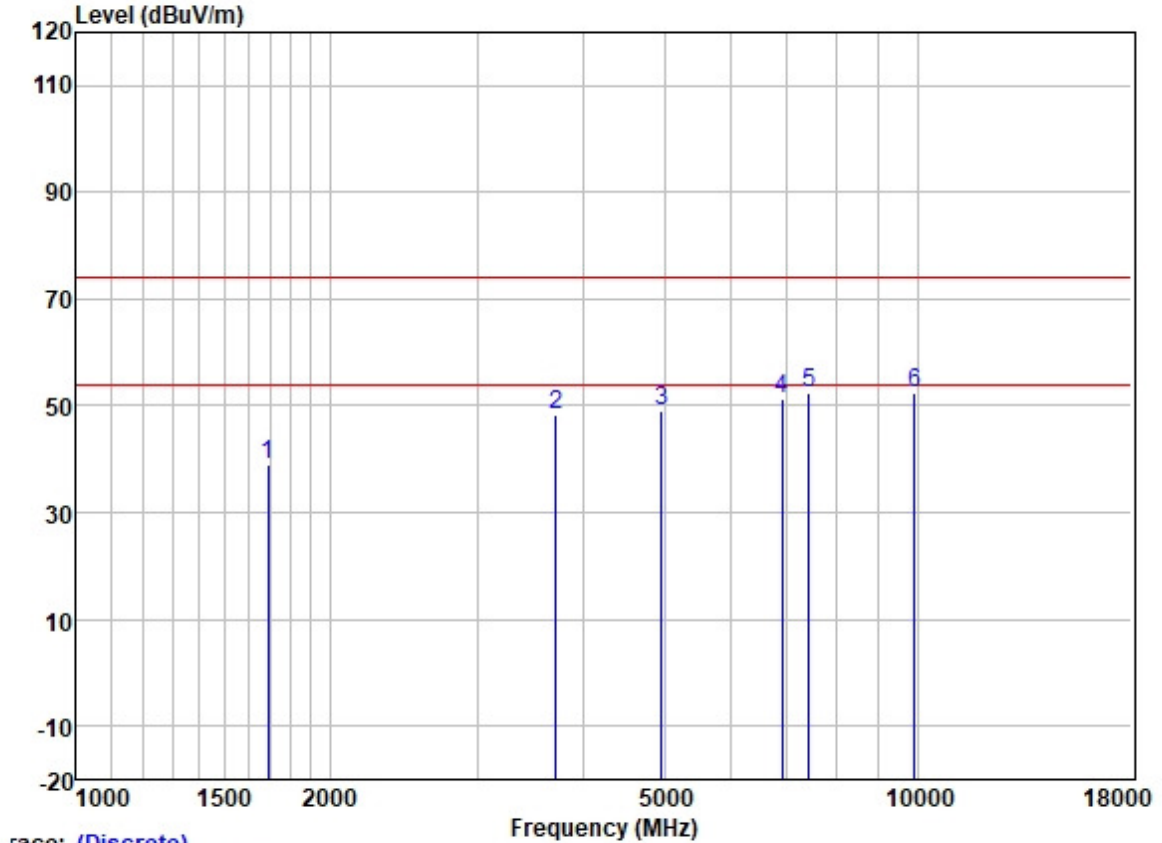
|      | Read     | Antenna | Cable | Preamp | Limit  | Over   |           |        |          |      |
|------|----------|---------|-------|--------|--------|--------|-----------|--------|----------|------|
| Freq | Level    | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark |          |      |
| 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 |



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



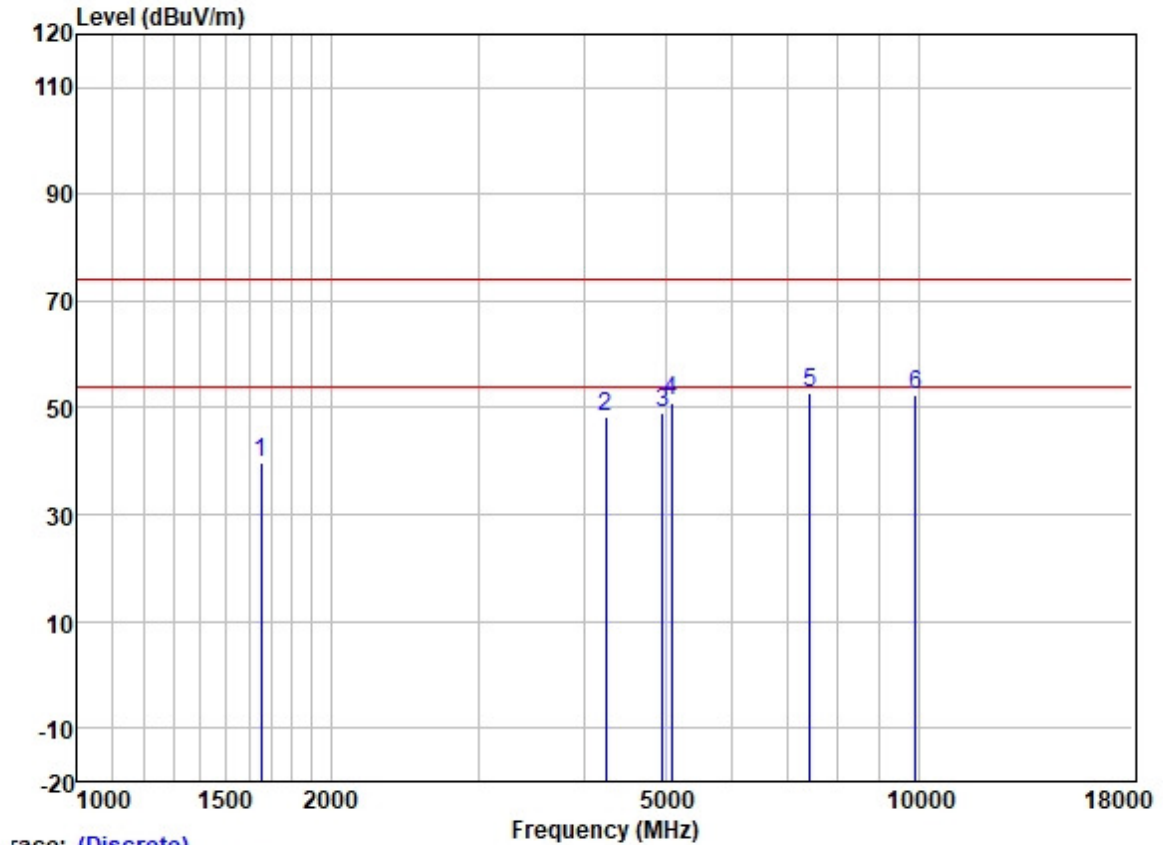
Trace: (Discrete)

|      | ReadAntenna | Cable  | Preamp | Limit  | Over   |        |       |           |                 |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level       | Factor | Loss   | Factor | Level  | Line   | Limit | Pol/Phase | Remark          |
| MHz  | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB    |           |                 |
| 1    | 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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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:High  
Rata data:2M/bits



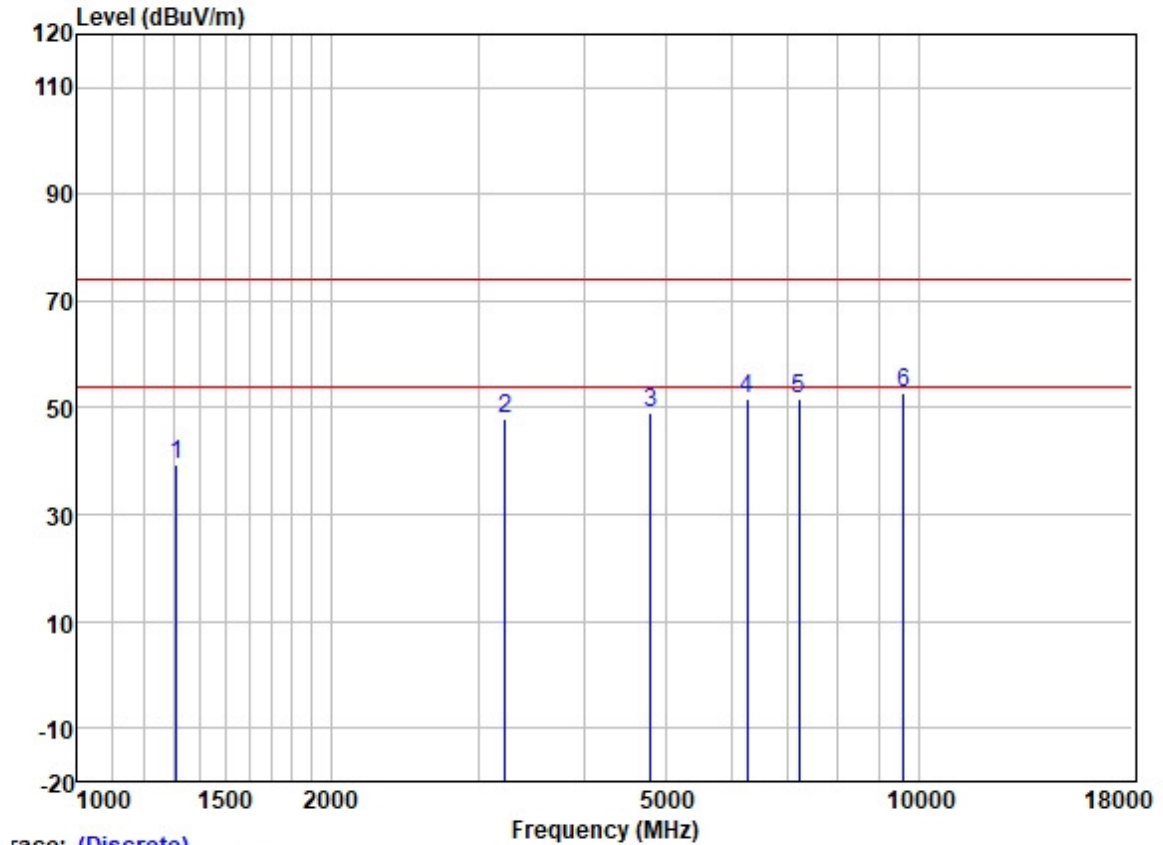
Trace: (Discrete)

|      | Read     | Antenna | Cable | Preamp | Limit  | Over   |           |        |          |      |
|------|----------|---------|-------|--------|--------|--------|-----------|--------|----------|------|
| Freq | Level    | Factor  | Loss  | Factor | 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 |



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



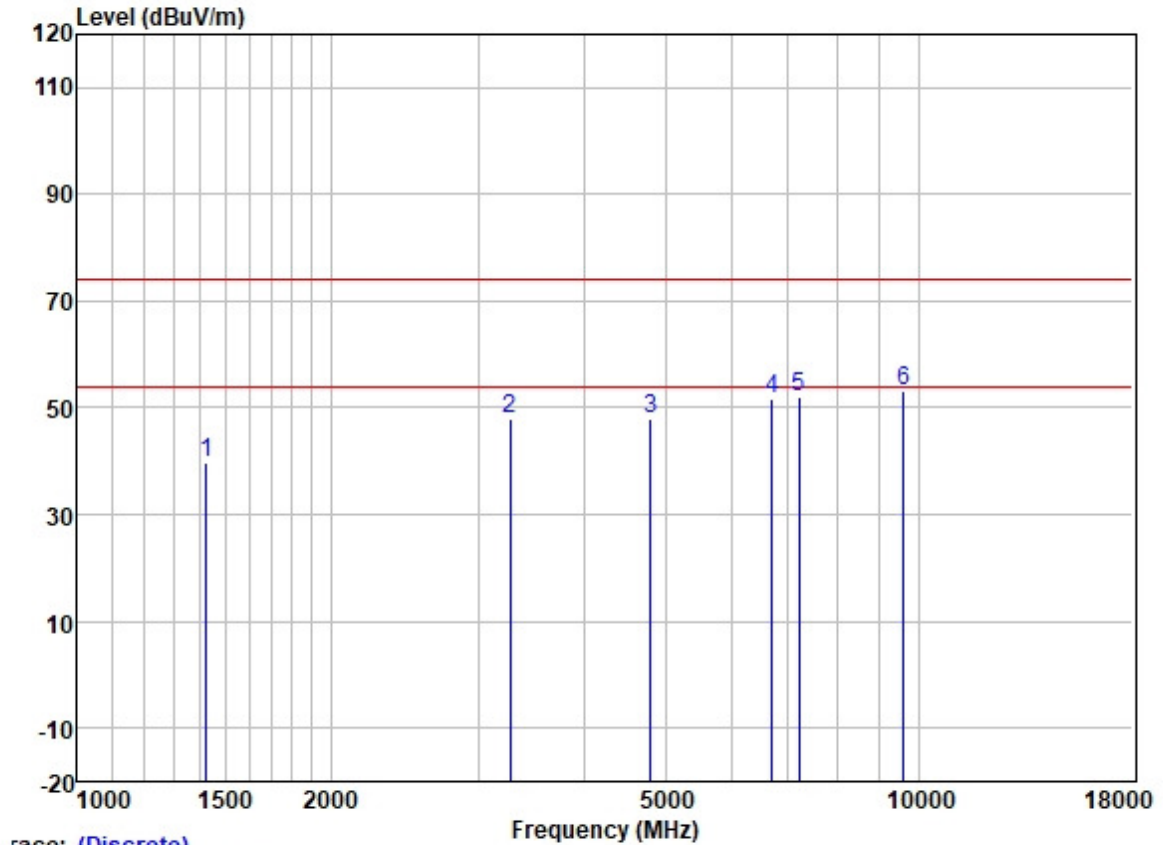
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



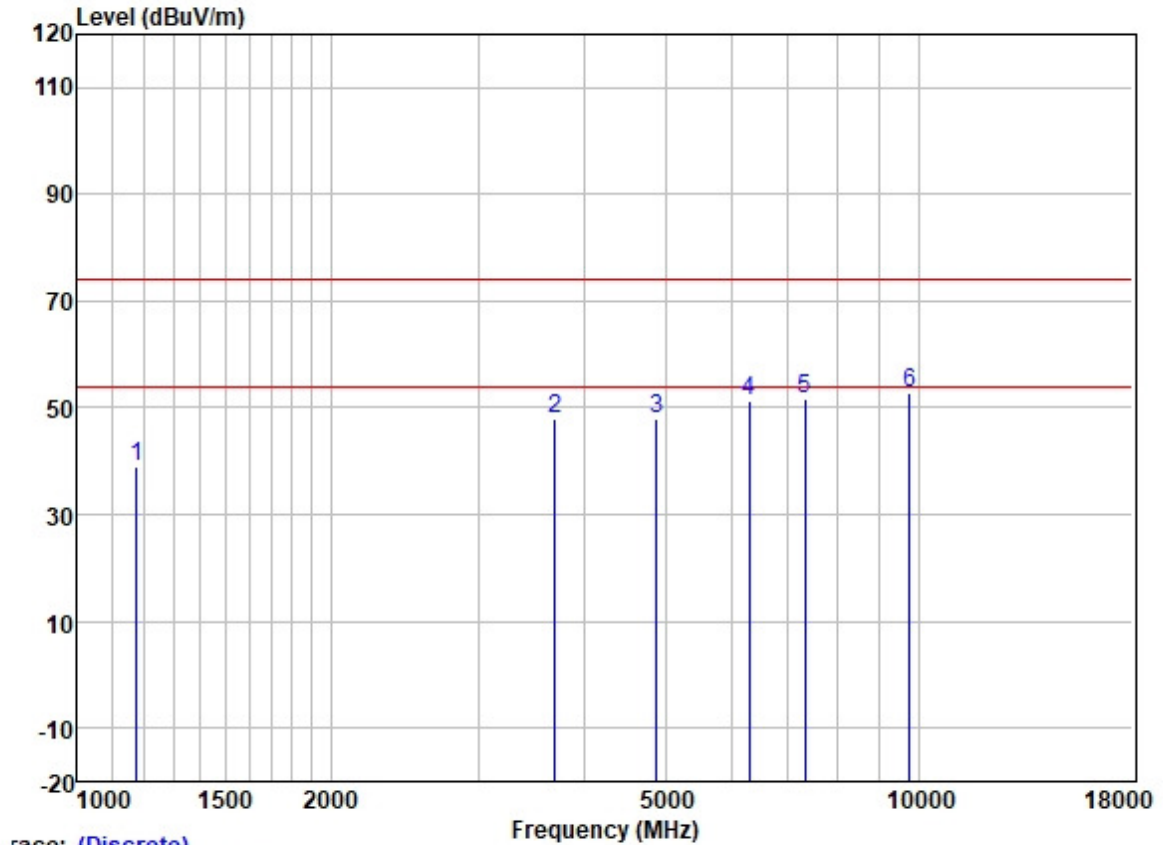
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



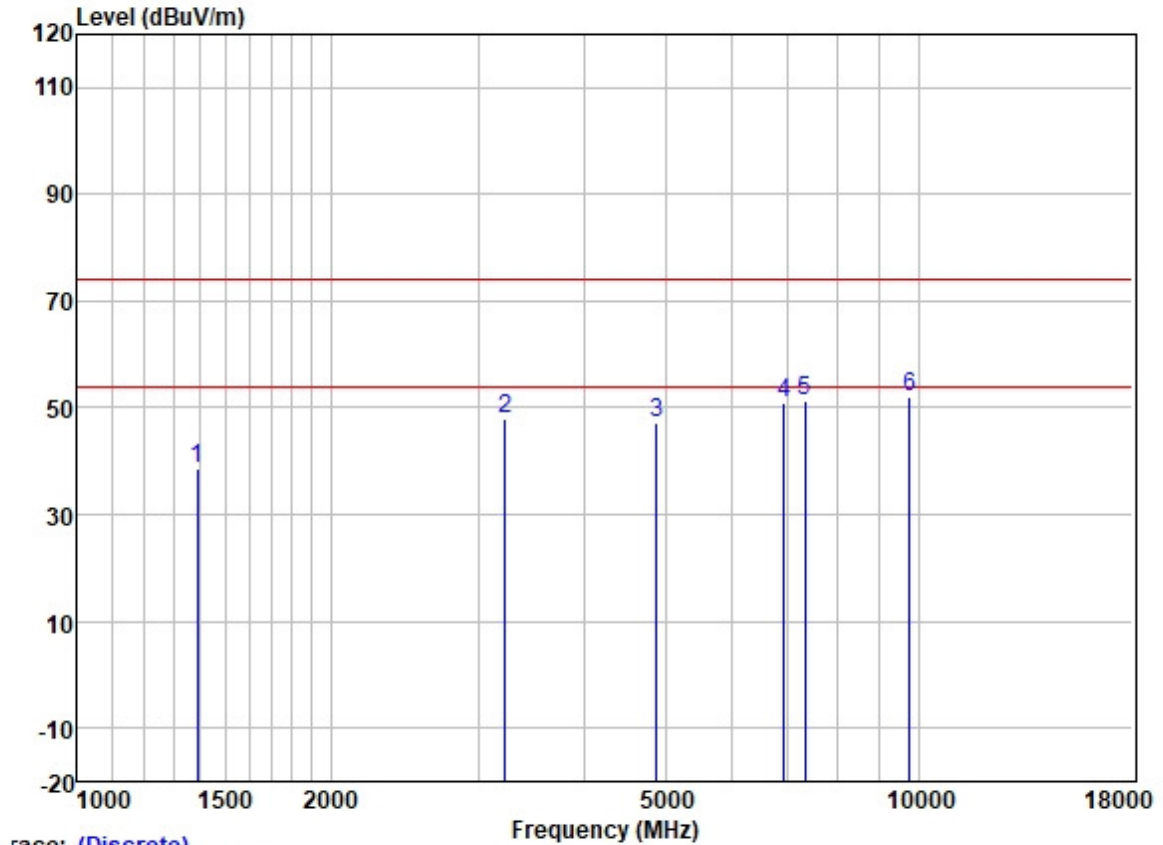
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



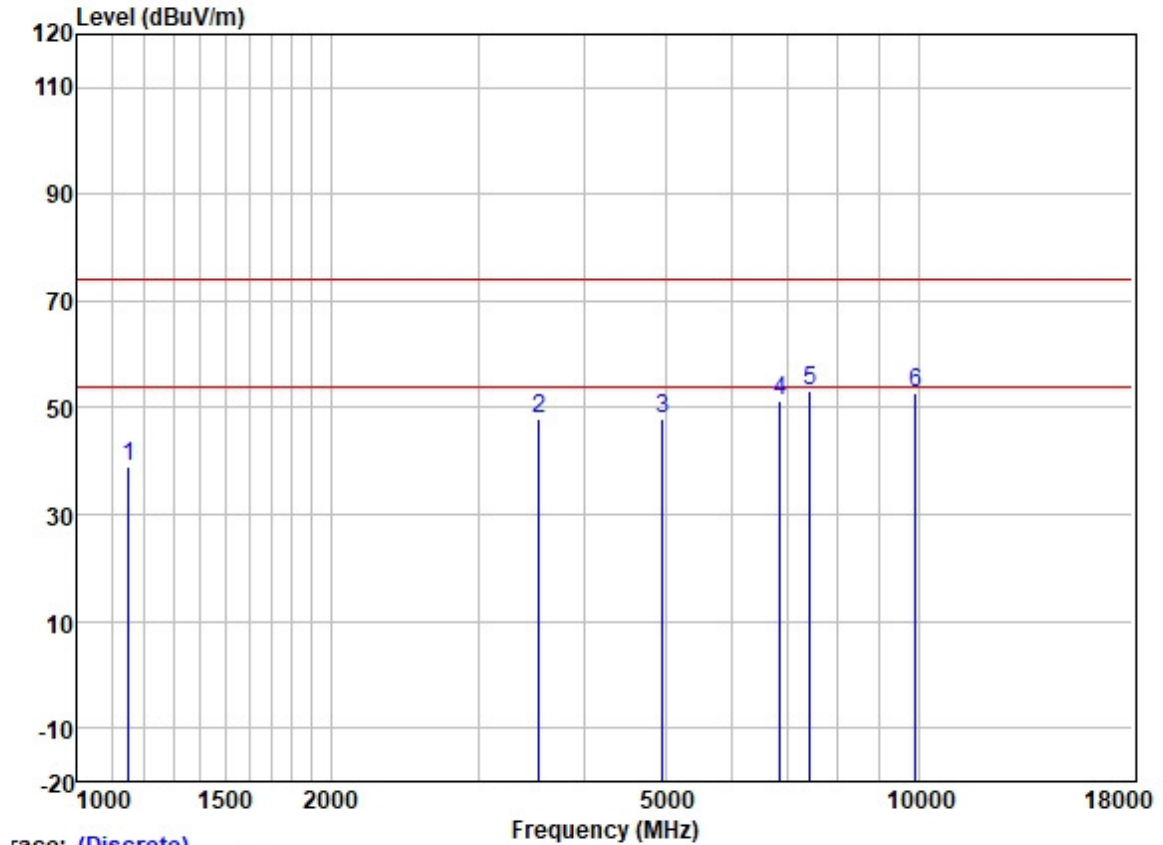
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



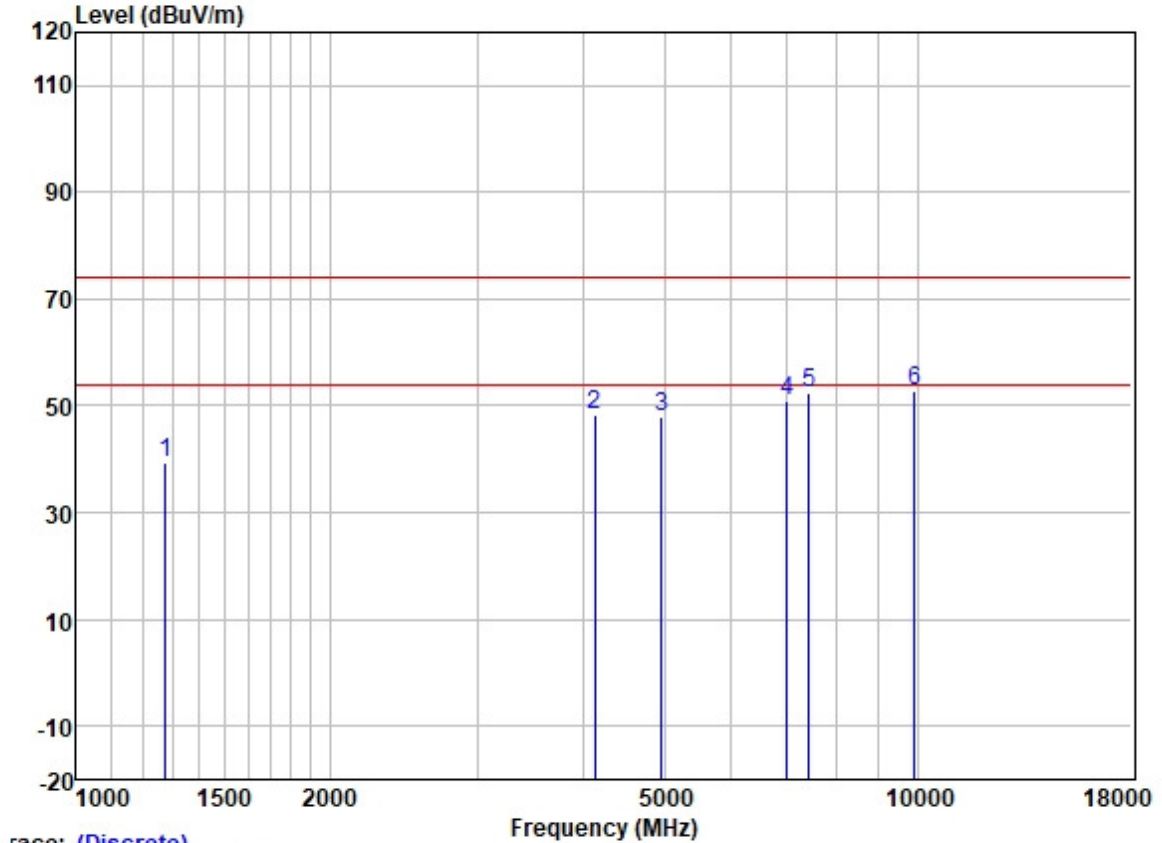
Trace: (Discrete)

|      | ReadAntenna | Cable  | Preamp | Limit  | Over   |        |       |           |                 |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level       | Factor | Loss   | Factor | Level  | Line   | Limit | Pol/Phase | Remark          |
| MHz  | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB    |           |                 |
| 1    | 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 |



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



Trace: (Discrete)

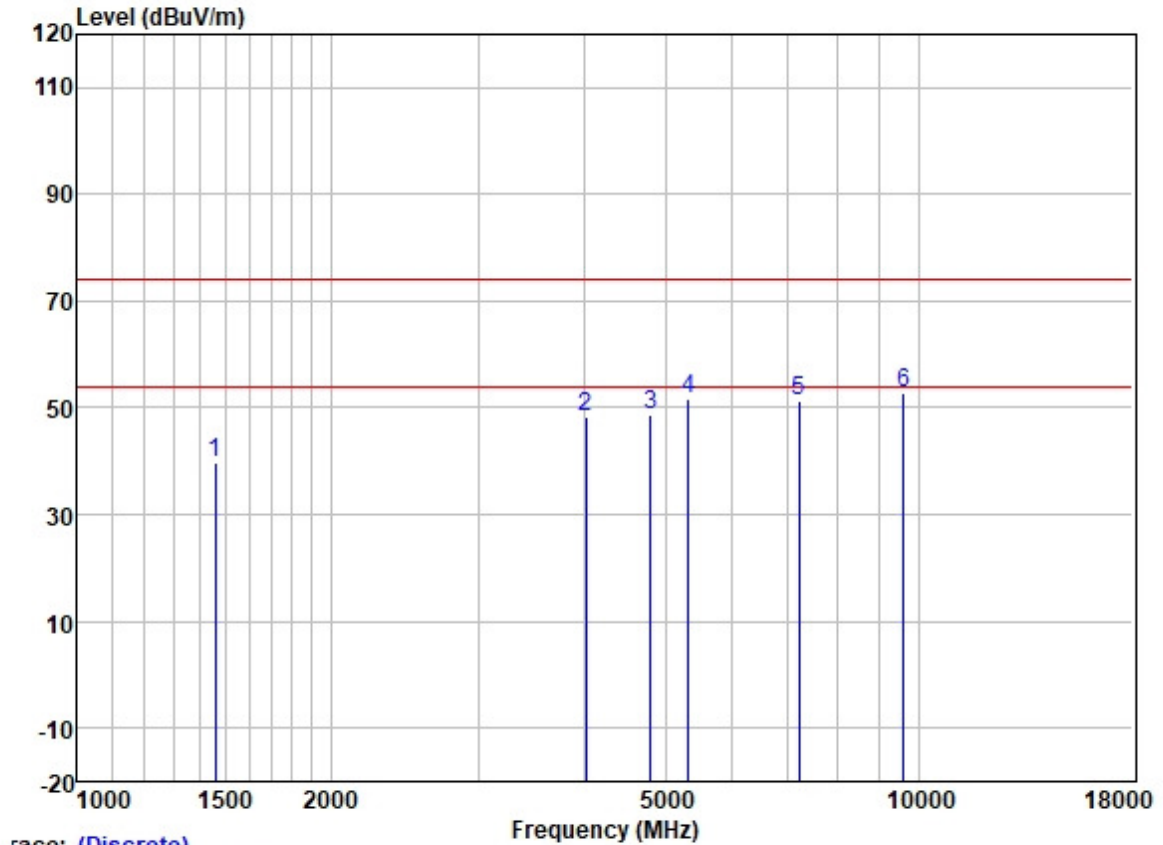
|      | ReadAntenna | Cable  | Preamp | Limit  | Over   |        |       |           |               |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|---------------|
| Freq | Level       | Factor | Loss   | Factor | Level  | Line   | Limit | Pol/Phase | Remark        |
| MHz  | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB    |           |               |
| 1    | 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 |



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



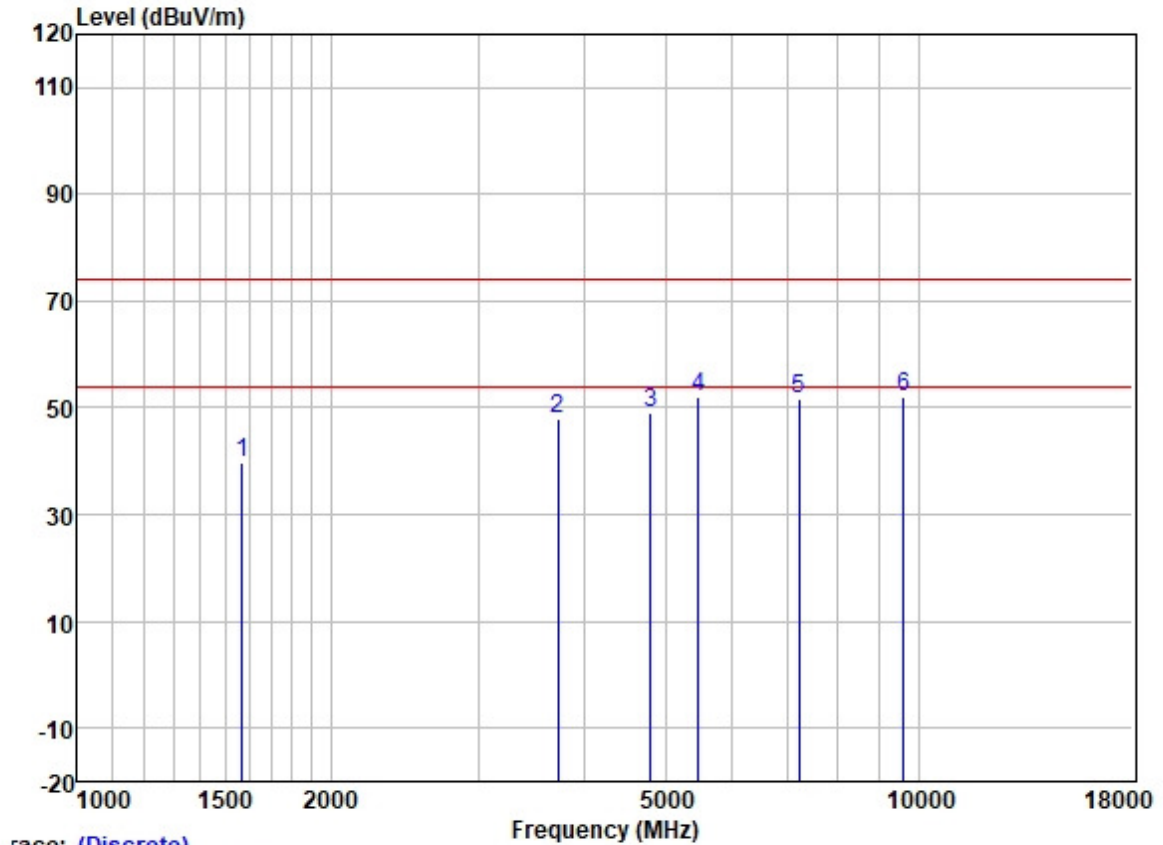
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



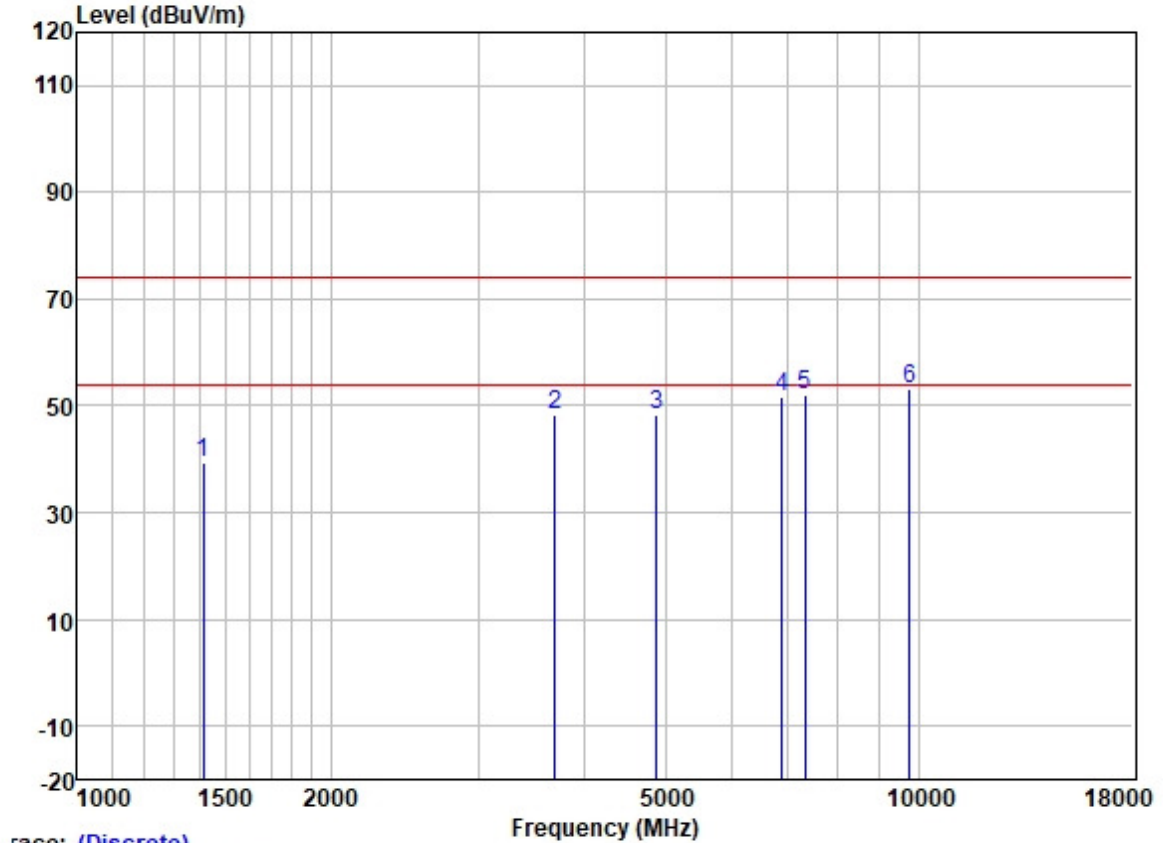
Trace: (Discrete)

|      | ReadAntenna | Cable  | Preamp | Limit  | Over   |        |       |           |               |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|---------------|
| Freq | Level       | Factor | Loss   | Factor | Level  | Line   | Limit | Pol/Phase | Remark        |
| MHz  | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB    |           |               |
| 1    | 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 |



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



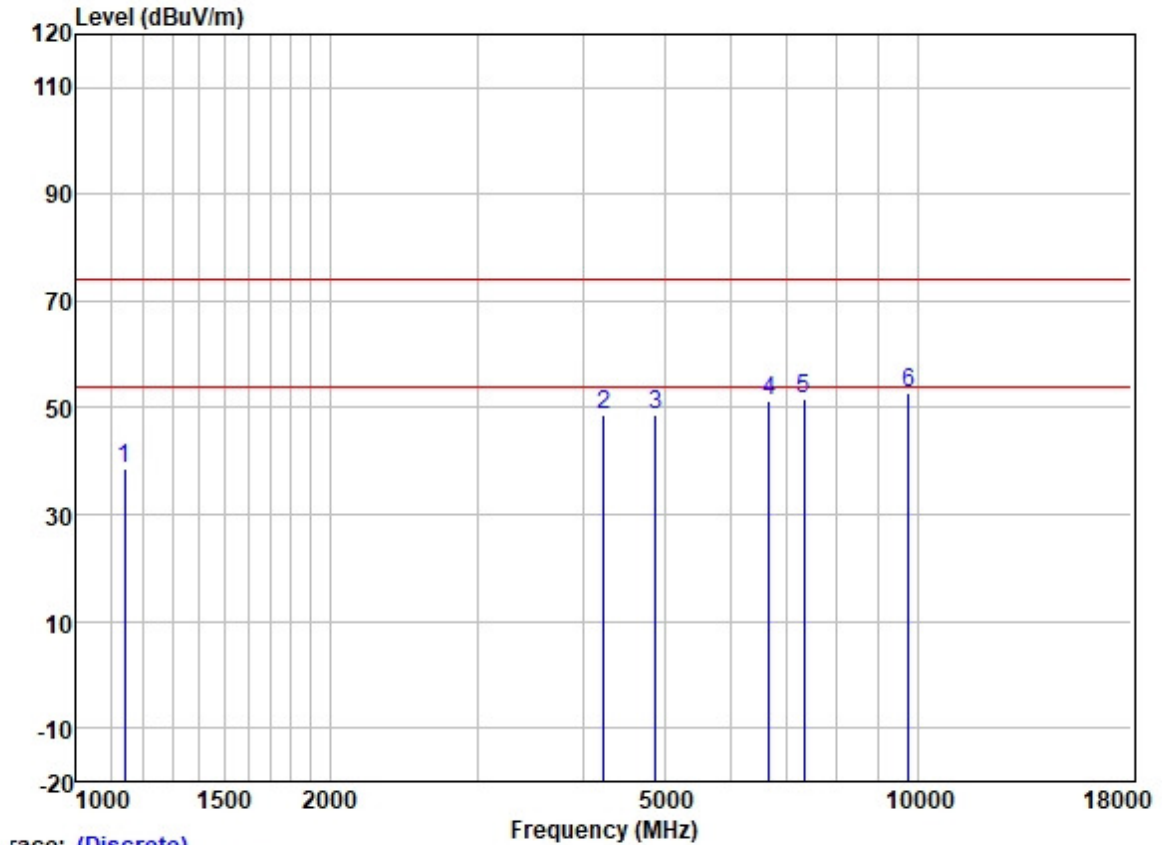
Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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



Trace: (Discrete)

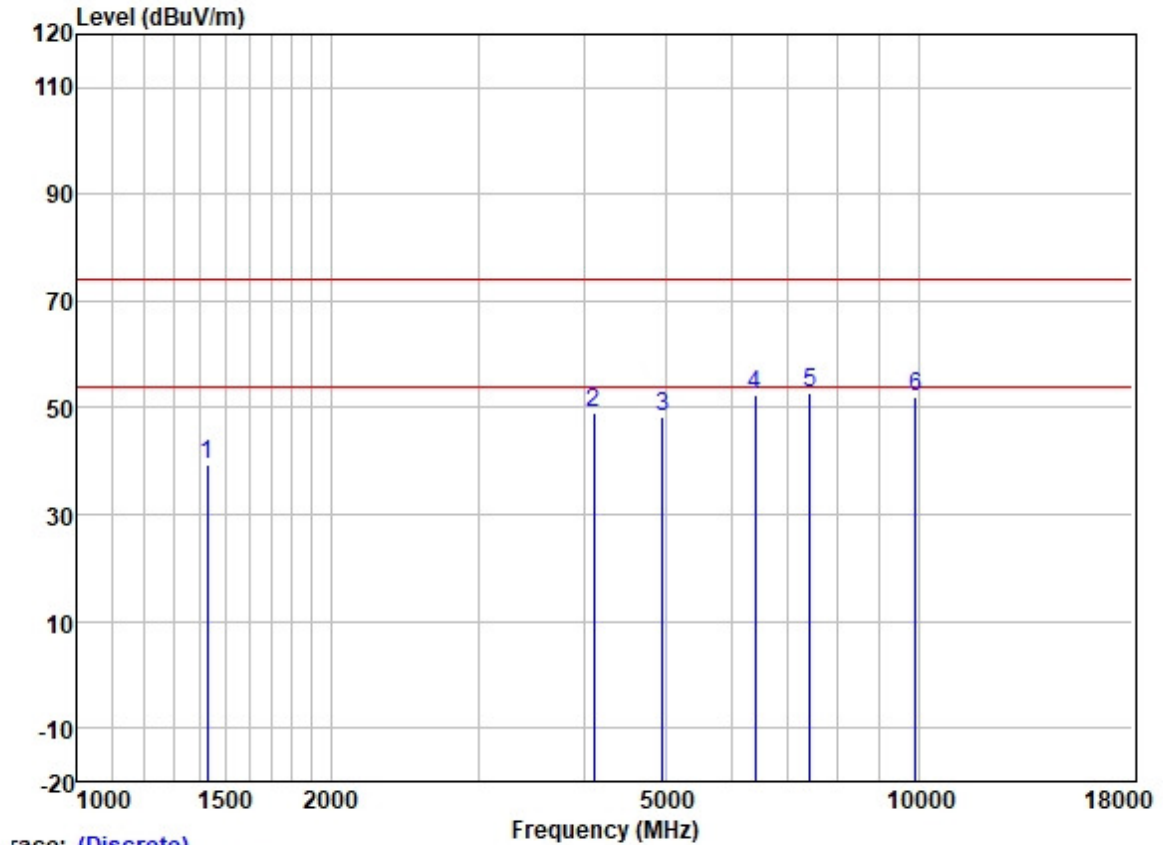
|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|------------|------------|-----------|--------|
|   | MHz       | dBuV          | 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   |



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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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



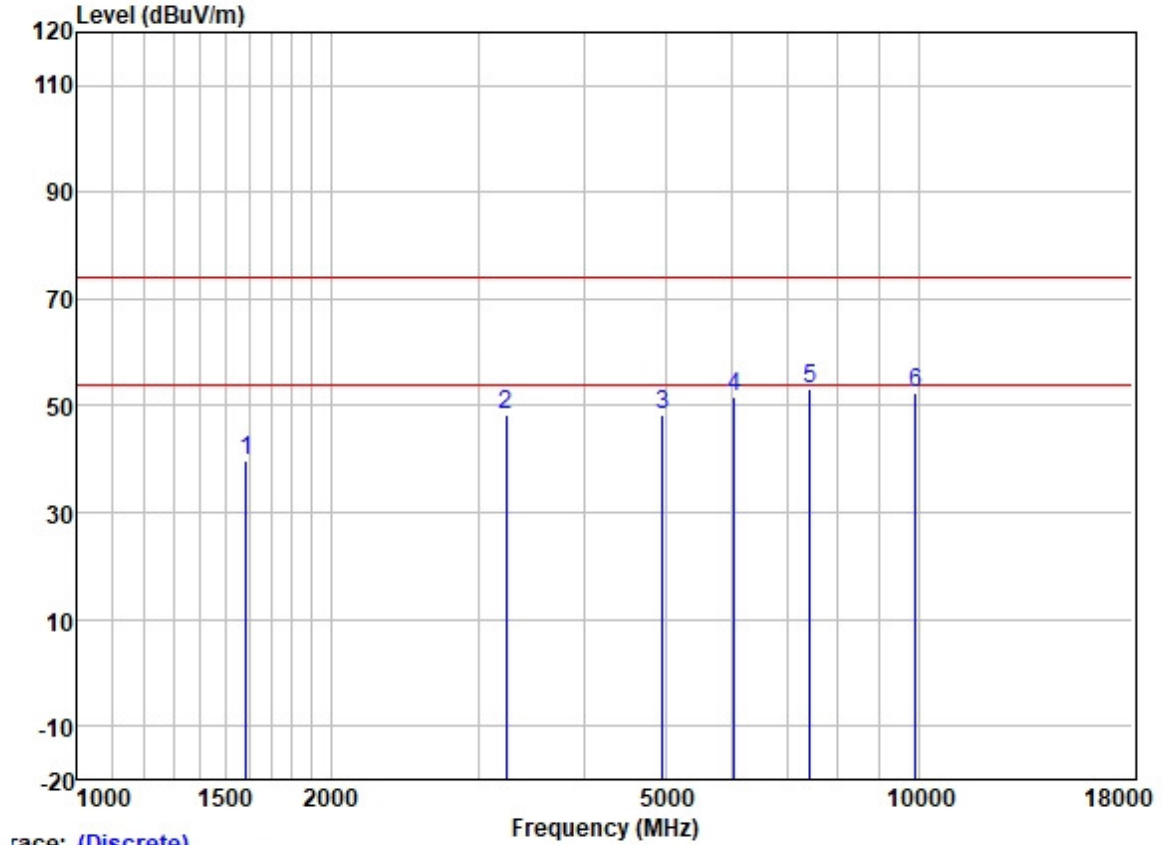
race: (Discrete)

|      | 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    | 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 |



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



Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level  | Limit Line | Over 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   |



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## 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



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## 10 Appendix

### For Right earbuds

#### 1. Duty Cycle

##### 1.1 Ant1

##### 1.1.1 Test Result

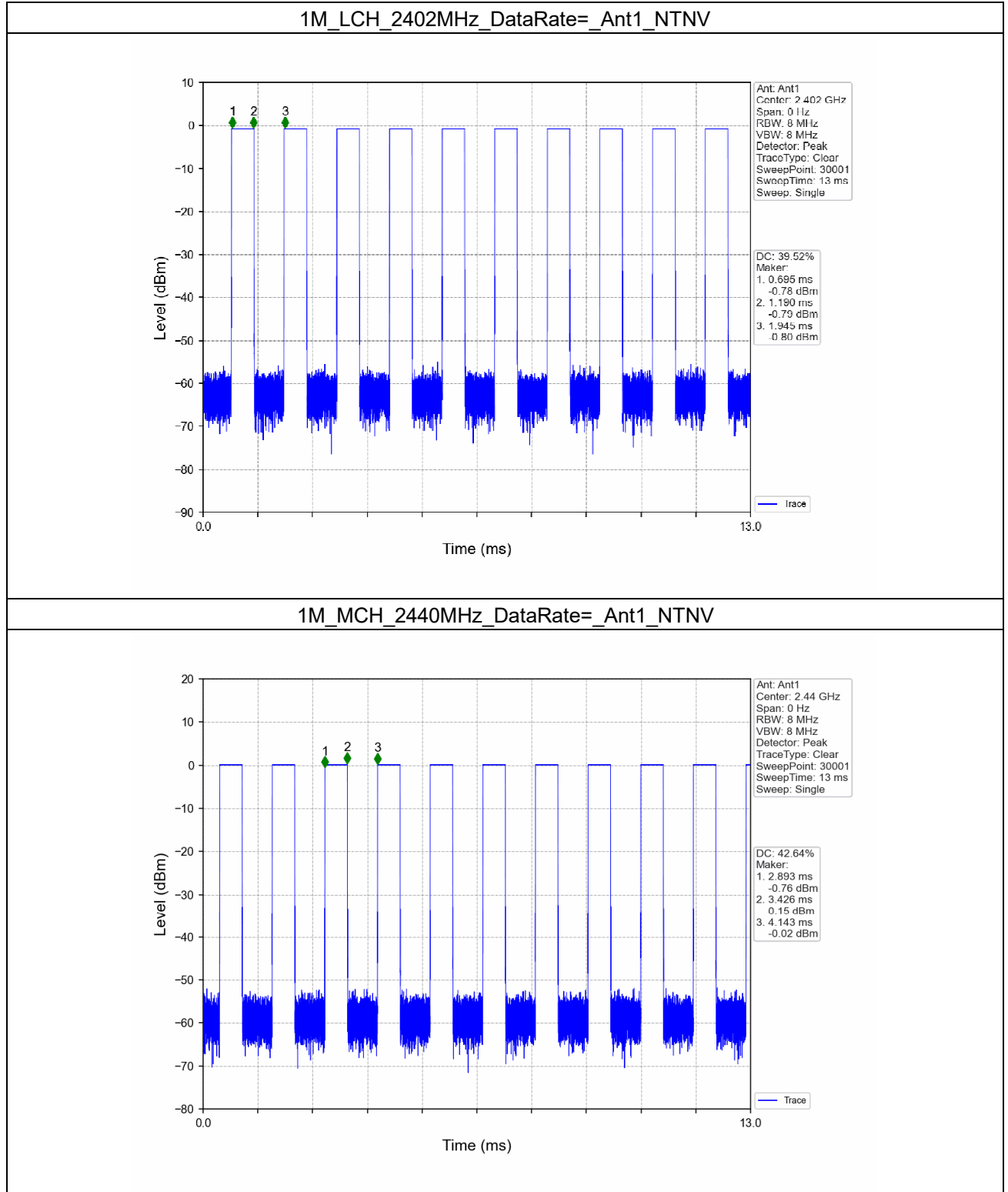
| Ant1 |         |                 |                      |             |                |                                   |                       |
|------|---------|-----------------|----------------------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T <sub>on</sub> (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                  |



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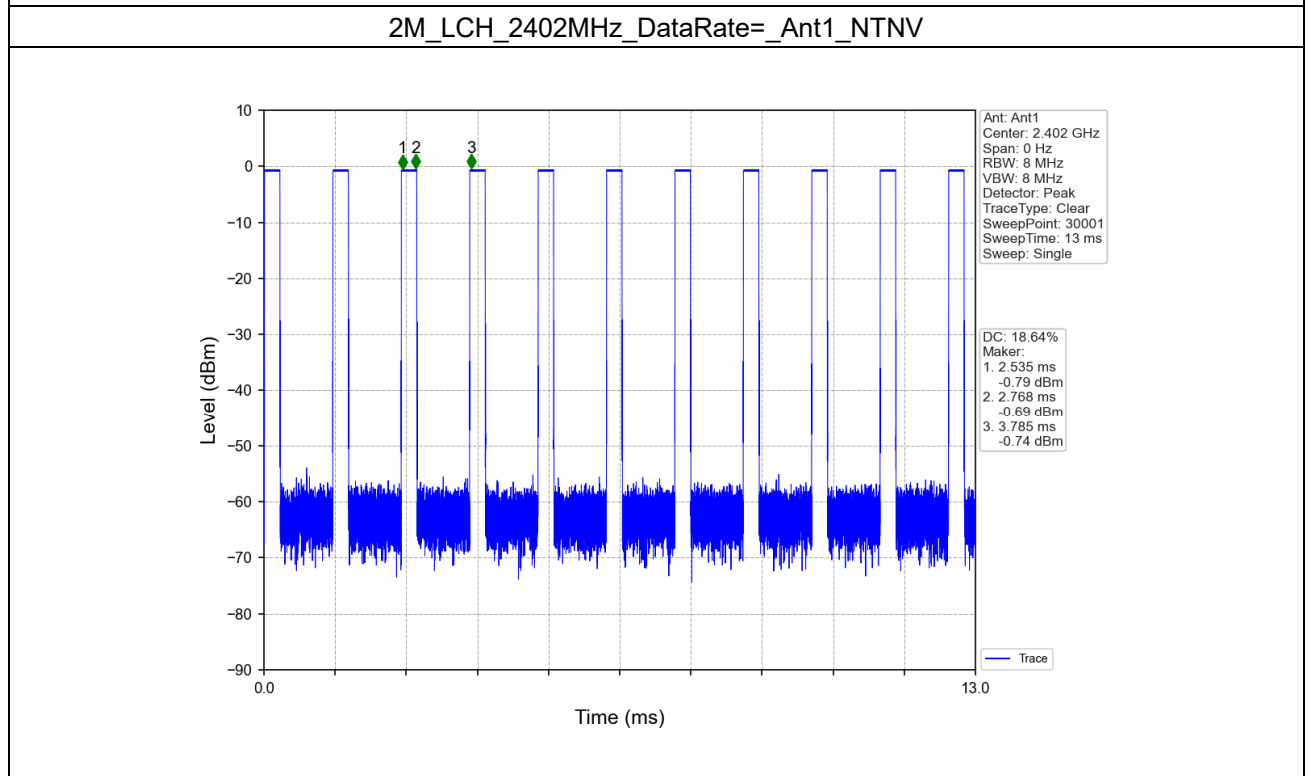
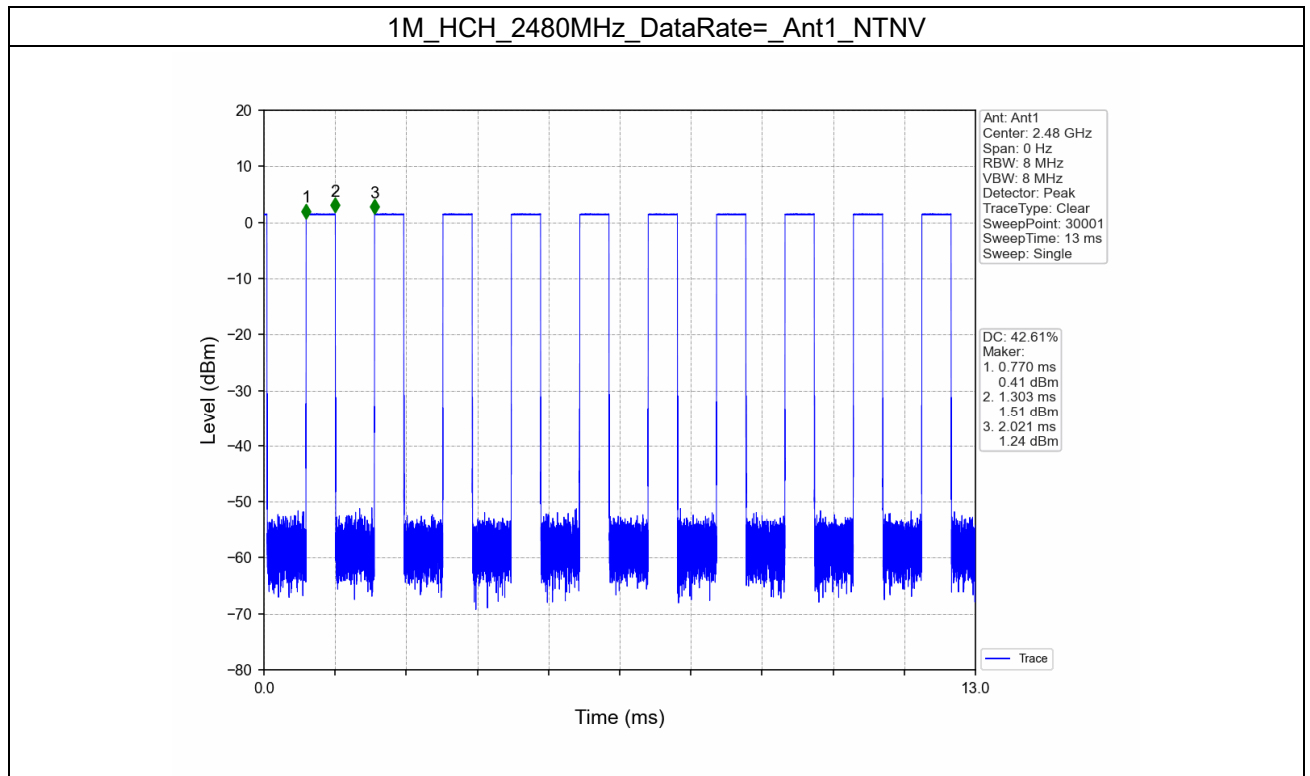
### 1.1.2 Test Graph



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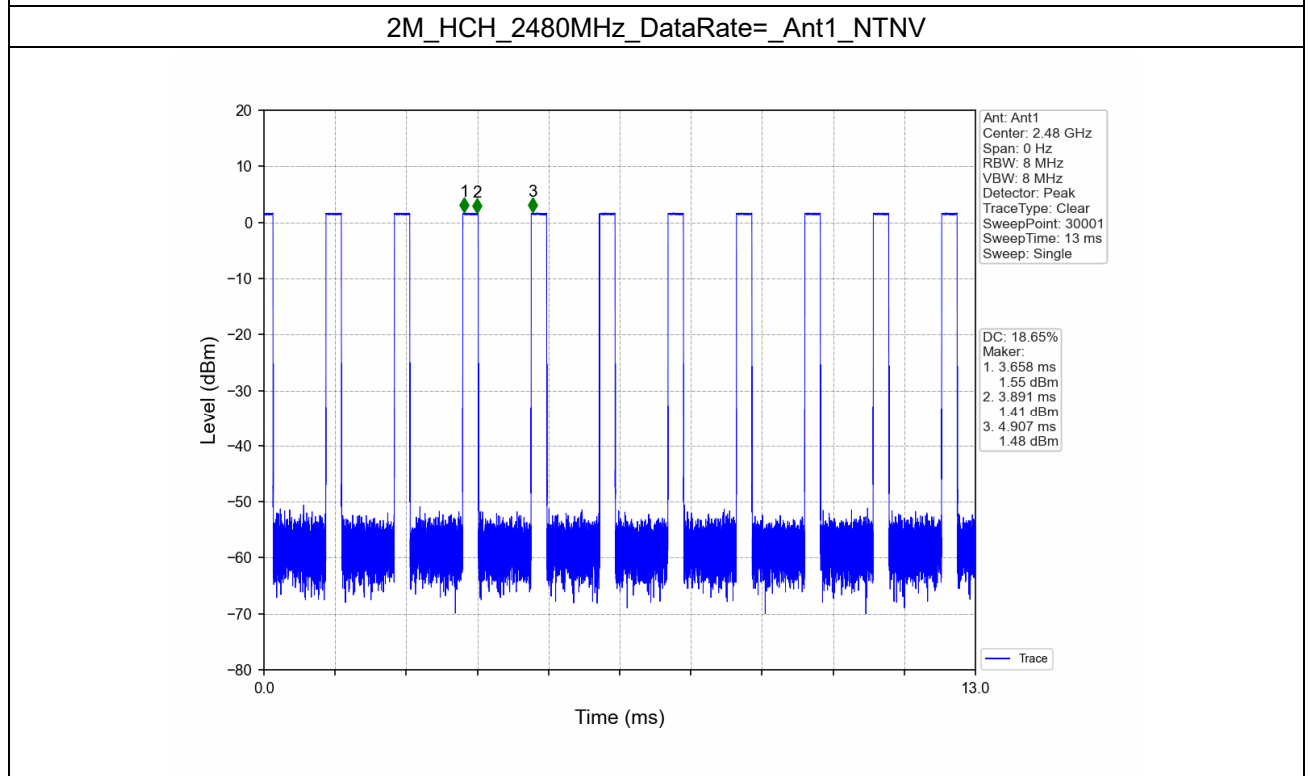
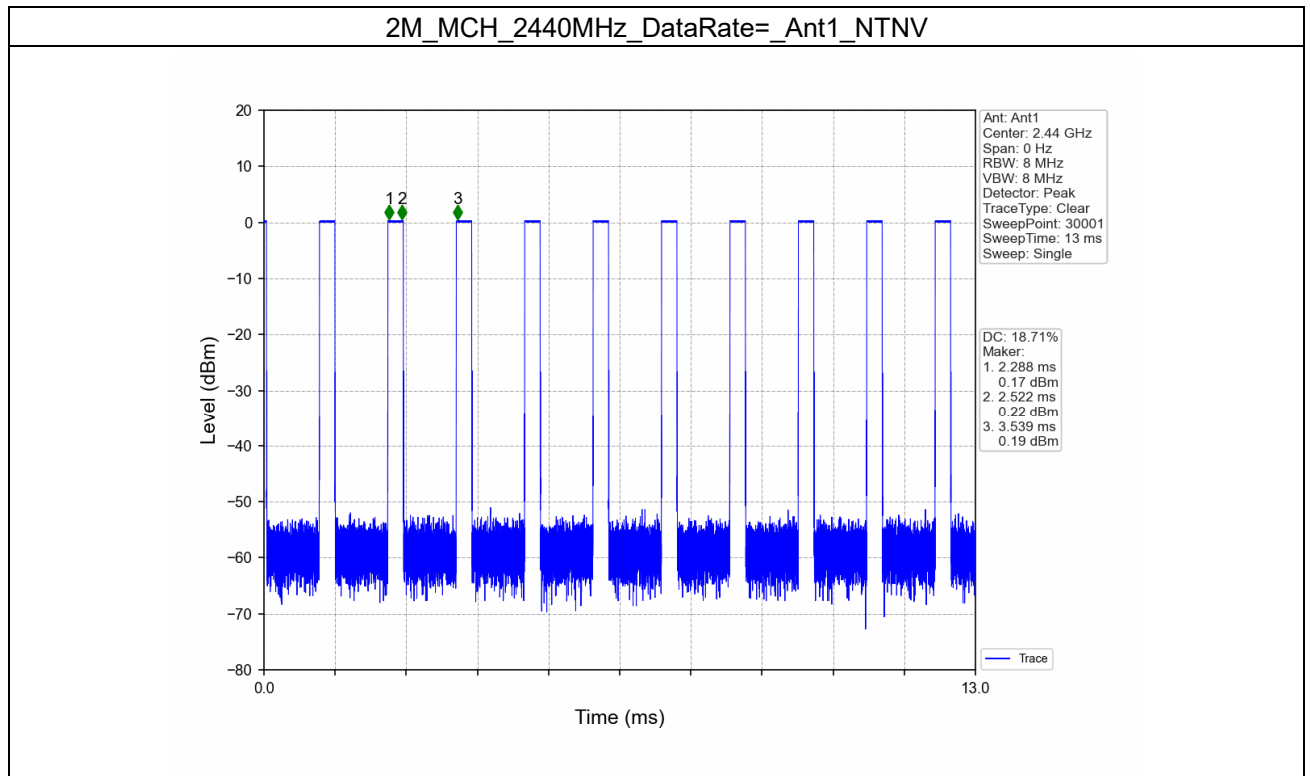
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## 2. Bandwidth

### 2.1 OBW

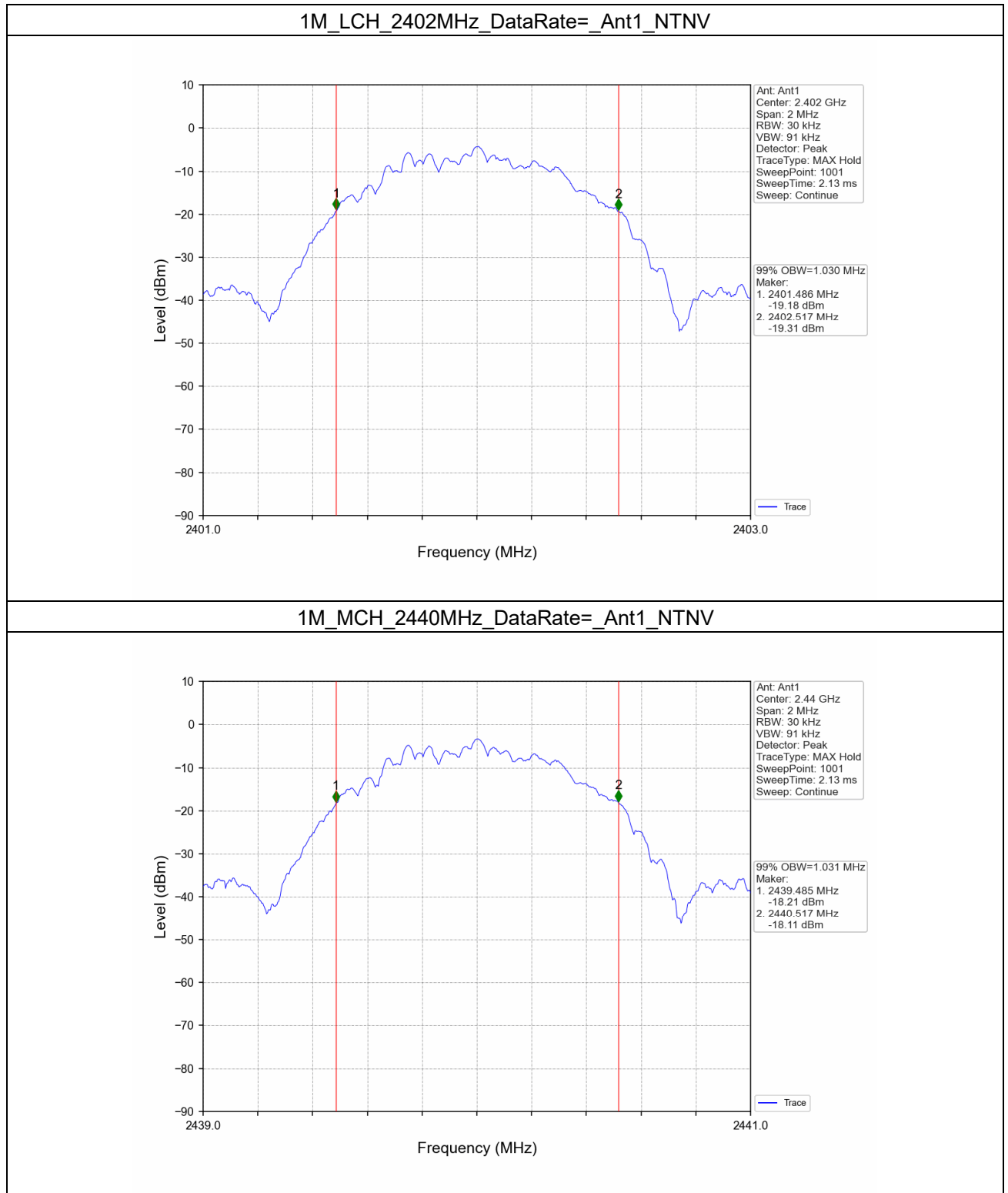
#### 2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | 99% Occupied Bandwidth (MHz) | Verdict |
|------|---------|-----------------|-----|------------------------------|---------|
|      |         |                 |     | Result                       |         |
| 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    |



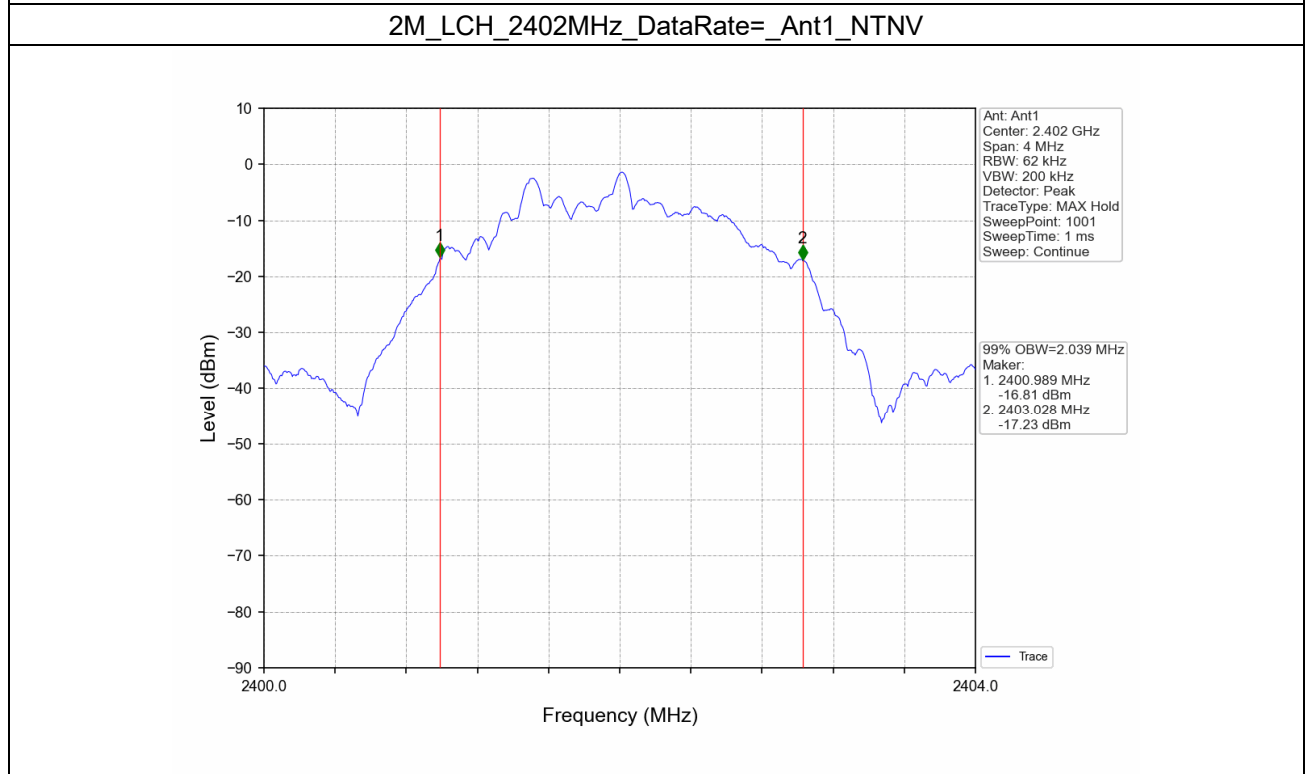
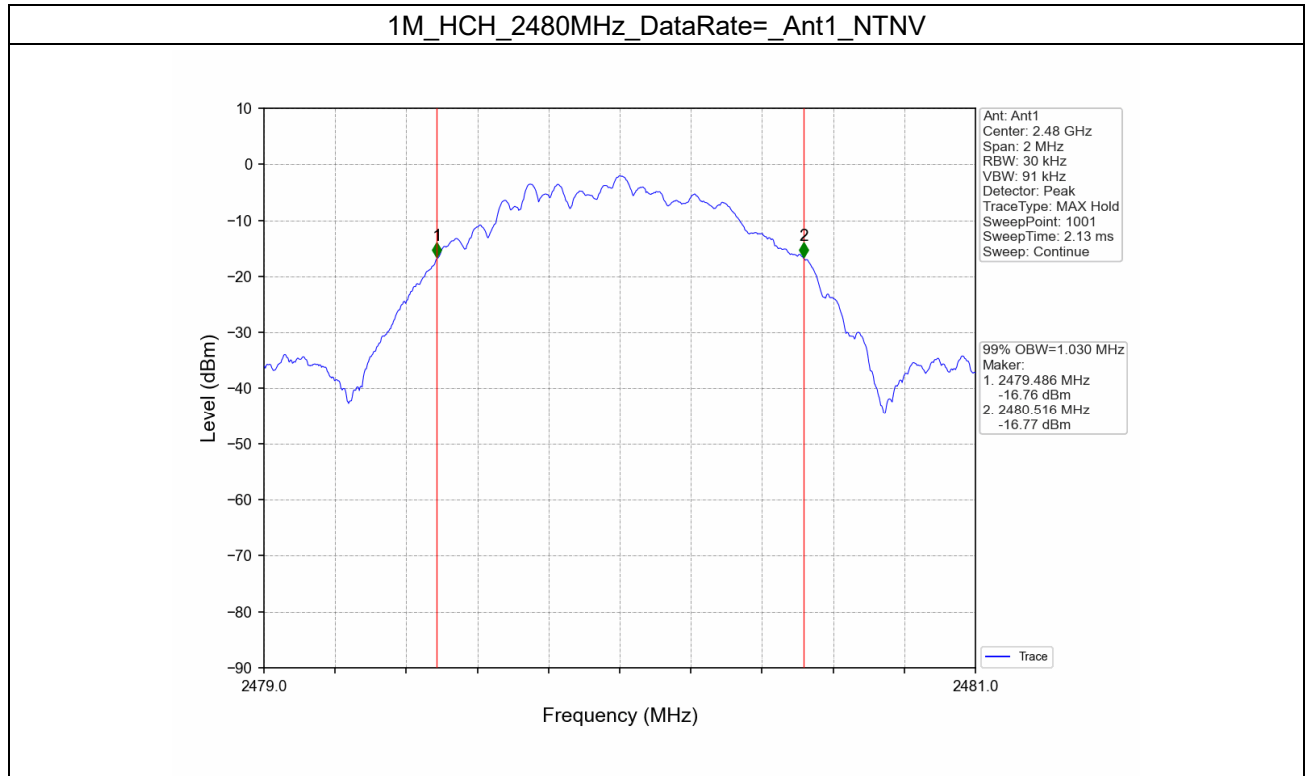
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### 2.1.2 Test Graph



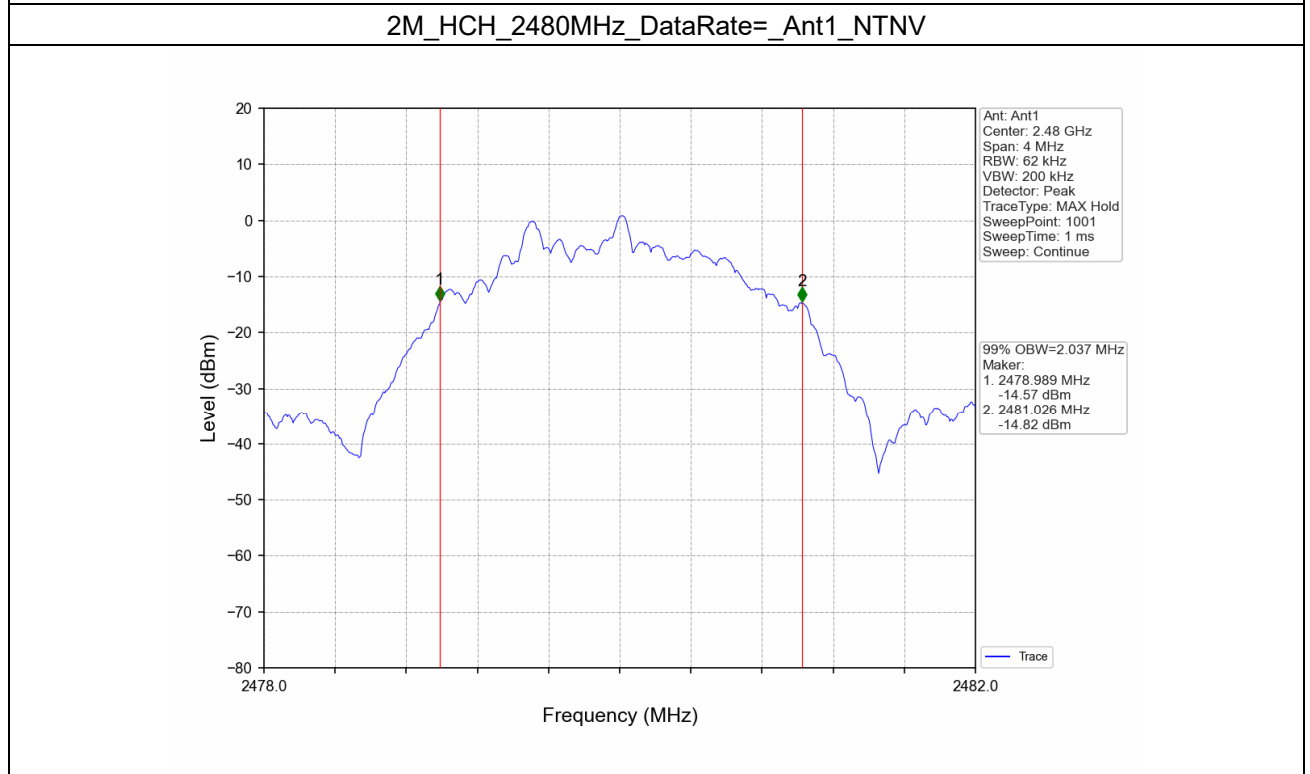
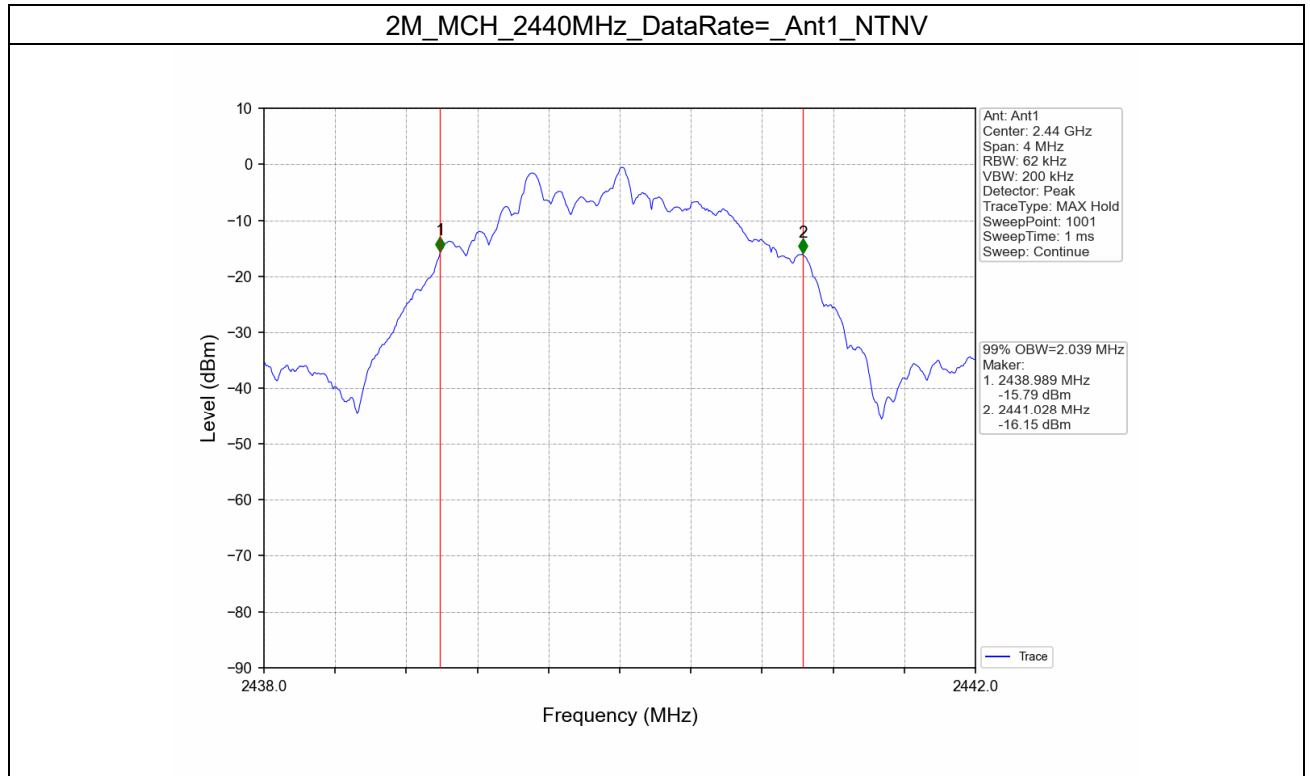
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2.2 6dB BW

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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