

## Appendix A: Test Results of BDR&EDR

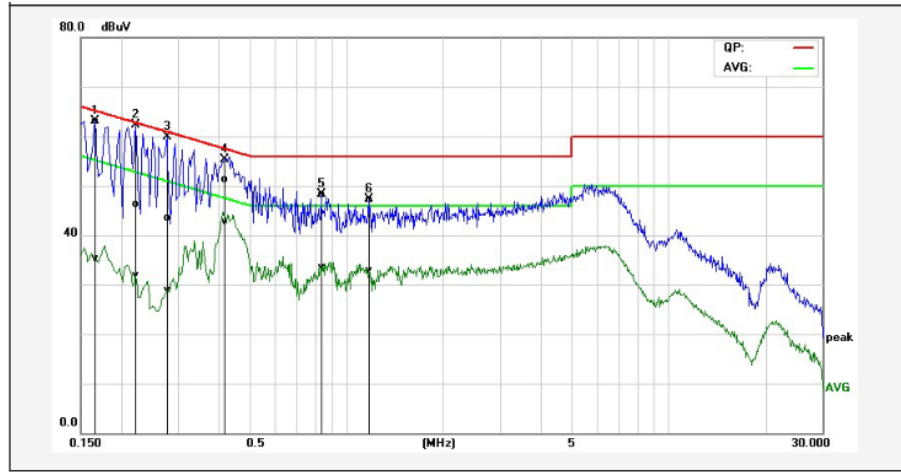
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## Appendix A.1 Test Results of Conducted Emission on AC Mains

Test Mode:

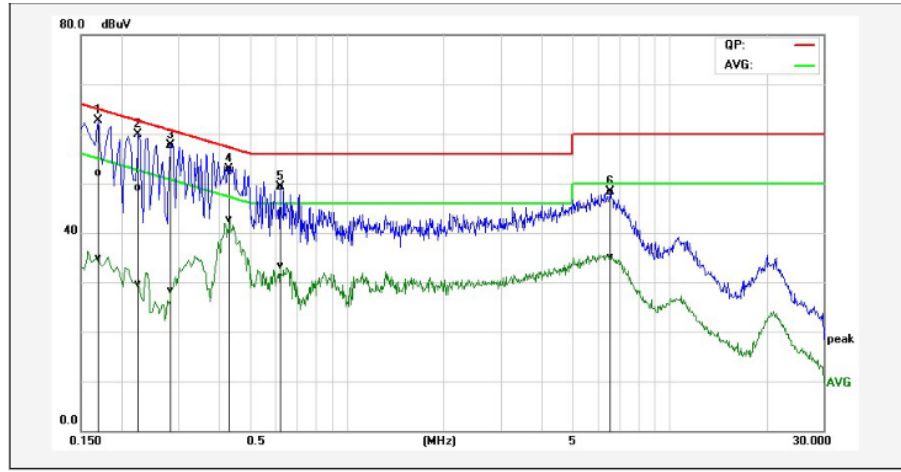
Mode7

L



| No. | Frequency | QuasiPeak | Average | Correction | QuasiPeak | Average | QuasiPeak | Average | QuasiPeak | Average | Remark |
|-----|-----------|-----------|---------|------------|-----------|---------|-----------|---------|-----------|---------|--------|
|     | (MHz)     | reading   | reading | factor     | result    | result  | limit     | limit   | margin    | margin  |        |
|     |           | (dBuV)    | (dBuV)  | (dB)       | (dBuV)    | (dBuV)  | (dBuV)    | (dBuV)  | (dB)      | (dB)    |        |
| 1*  | 0.1660    | 52.27     | 25.56   | 9.80       | 62.07     | 35.36   | 65.15     | 55.16   | -3.08     | -19.80  | Pass   |
| 2P  | 0.2220    | 36.65     | 22.41   | 9.59       | 46.24     | 32.00   | 62.74     | 52.74   | -16.50    | -20.74  | Pass   |
| 3P  | 0.2779    | 33.86     | 19.33   | 9.58       | 43.44     | 28.91   | 60.88     | 50.88   | -17.44    | -21.97  | Pass   |
| 4P  | 0.4140    | 41.70     | 33.20   | 9.54       | 51.24     | 42.74   | 57.57     | 47.57   | -6.33     | -4.83   | Pass   |
| 5P  | 0.8380    | 38.70     | 23.94   | 9.61       | 48.31     | 33.55   | 56.00     | 46.00   | -7.69     | -12.45  | Pass   |
| 6P  | 1.1740    | 37.56     | 23.29   | 9.69       | 47.25     | 32.98   | 56.00     | 46.00   | -8.75     | -13.02  | Pass   |

N



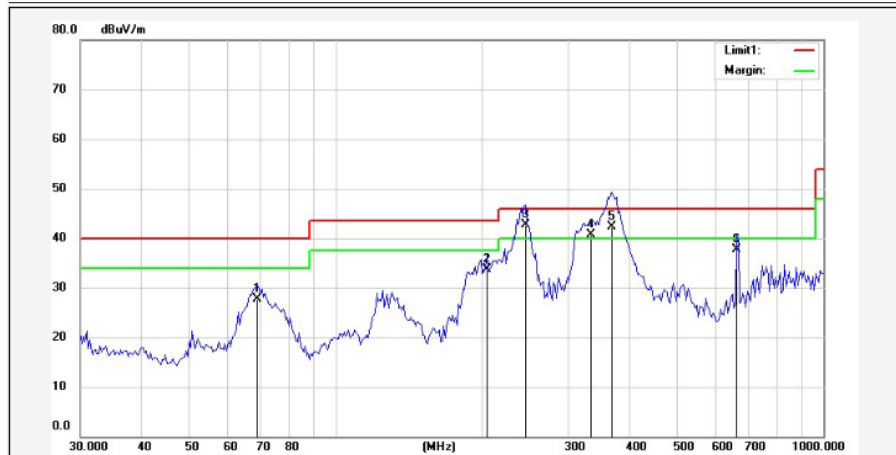
| No. | Frequency | QuasiPeak | Average | Correction | QuasiPeak | Average | QuasiPeak | Average | QuasiPeak | Average | Remark |
|-----|-----------|-----------|---------|------------|-----------|---------|-----------|---------|-----------|---------|--------|
|     | (MHz)     | reading   | reading | factor     | result    | result  | limit     | limit   | margin    | margin  |        |
|     |           | (dBuV)    | (dBuV)  | (dB)       | (dBuV)    | (dBuV)  | (dBuV)    | (dBuV)  | (dB)      | (dB)    |        |
| 1P  | 0.1700    | 42.42     | 25.22   | 9.60       | 52.02     | 34.82   | 64.96     | 54.96   | -12.94    | -20.14  | Pass   |
| 2P  | 0.2260    | 39.42     | 20.07   | 9.59       | 49.01     | 29.66   | 62.59     | 52.60   | -13.58    | -22.94  | Pass   |
| 3*  | 0.2860    | 47.89     | 18.67   | 9.58       | 57.47     | 28.25   | 60.64     | 50.64   | -3.17     | -22.39  | Pass   |
| 4P  | 0.4340    | 43.29     | 33.24   | 9.53       | 52.82     | 42.77   | 57.18     | 47.18   | -4.36     | -4.41   | Pass   |
| 5P  | 0.6220    | 39.66     | 23.75   | 9.57       | 49.23     | 33.32   | 56.00     | 46.00   | -6.77     | -12.68  | Pass   |
| 6P  | 6.5780    | 38.74     | 25.48   | 9.62       | 48.36     | 35.10   | 60.00     | 50.00   | -11.64    | -14.90  | Pass   |

## Appendix A.2 Test Results of Radiated Spurious Emission

Below 1GHz:

Test Mode: Mode 1(worst mode)

Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (deg.) | Height (cm) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|---------------|-------------|--------|
| 1   | 69.2296         | 41.63          | -13.91                  | 27.72           | 40.00          | -12.28      | ---           | ---         | QP     |
| 2   | 204.3052        | 48.42          | -14.71                  | 33.71           | 43.50          | -9.79       | ---           | ---         | QP     |
| 3*  | 245.2606        | 55.90          | -13.16                  | 42.74           | 46.00          | -3.26       | ---           | ---         | QP     |
| 4!  | 334.1254        | 51.29          | -10.61                  | 40.68           | 46.00          | -5.32       | ---           | ---         | QP     |
| 5!  | 368.6681        | 51.95          | -9.62                   | 42.33           | 46.00          | -3.67       | ---           | ---         | QP     |
| 6   | 665.2610        | 41.32          | -3.61                   | 37.71           | 46.00          | -8.29       | ---           | ---         | QP     |

Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correction factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (deg.) | Height (cm) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|---------------|-------------|--------|
| 1   | 31.2917         | 43.60          | -13.14                  | 30.46           | 40.00          | -9.54       | ---           | ---         | QP     |
| 2   | 38.9080         | 43.04          | -13.06                  | 29.98           | 40.00          | -10.02      | ---           | ---         | QP     |
| 3!  | 50.8171         | 47.47          | -12.05                  | 35.42           | 40.00          | -4.58       | ---           | ---         | QP     |
| 4!  | 64.5318         | 47.99          | -13.24                  | 34.75           | 40.00          | -5.25       | ---           | ---         | QP     |
| 5*  | 366.0865        | 52.15          | -9.69                   | 42.46           | 46.00          | -3.54       | ---           | ---         | QP     |
| 6!  | 669.9523        | 45.58          | -3.59                   | 41.99           | 46.00          | -4.01       | ---           | ---         | QP     |

**Above 1GHz:**
**BDR-Low (worst mode) Horizontal**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5004.1481          | 62                | -15.59                  | 46.41              | 74                | -27.59         | peak   |
| 2   | 5004.1481          | 45.22             | -15.59                  | 29.63              | 54                | -24.37         | AVG    |
| 3   | 6093.401           | 57.68             | -11.78                  | 45.9               | 74                | -28.1          | peak   |
| 4   | 6093.401           | 41.41             | -11.78                  | 29.63              | 54                | -24.37         | AVG    |
| 5   | 8879.1668          | 55.89             | -7.81                   | 48.08              | 74                | -25.92         | peak   |
| 6   | 8879.1668          | 39.07             | -7.81                   | 31.26              | 54                | -22.74         | AVG    |
| 7   | 9629.2016          | 54.94             | -6.78                   | 48.16              | 74                | -25.84         | peak   |
| 8   | 9629.2016          | 38.26             | -6.78                   | 31.48              | 54                | -22.52         | AVG    |
| 9   | 11523.2011         | 54.98             | -4.51                   | 50.47              | 74                | -23.53         | peak   |
| 10  | 11523.2011         | 38.13             | -4.51                   | 33.62              | 54                | -20.38         | AVG    |
| 11  | 13165.3191         | 54.89             | -2.80                   | 52.09              | 74                | -21.91         | peak   |
| 12  | 13165.3191         | 38.27             | -2.80                   | 35.47              | 54                | -18.53         | AVG    |

**BDR-Low (worst mode) Vertical**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5004.1481          | 61.25             | -15.59                  | 45.66              | 74                | -28.34         | peak   |
| 2   | 5004.1481          | 42.74             | -15.59                  | 27.15              | 54                | -26.85         | AVG    |
| 3   | 6456.7731          | 56.83             | -11.11                  | 45.72              | 74                | -28.28         | peak   |
| 4   | 6456.7731          | 41.33             | -11.11                  | 30.22              | 54                | -23.78         | AVG    |
| 5   | 7637.7816          | 55.86             | -9.00                   | 46.86              | 74                | -27.14         | peak   |
| 6   | 7637.7816          | 40.2              | -9.00                   | 31.2               | 54                | -22.8          | AVG    |
| 7   | 8879.1668          | 56.34             | -7.81                   | 48.53              | 74                | -25.47         | peak   |
| 8   | 8879.1668          | 39.66             | -7.81                   | 31.85              | 54                | -22.15         | AVG    |
| 9   | 12424.4058         | 56.06             | -3.18                   | 52.88              | 74                | -21.12         | peak   |
| 10  | 12424.4058         | 37.28             | -3.18                   | 34.1               | 54                | -19.9          | AVG    |
| 11  | 13869.844          | 54.37             | -1.84                   | 52.53              | 74                | -21.47         | peak   |
| 12  | 13869.844          | 36.66             | -1.84                   | 34.82              | 54                | -19.18         | AVG    |

**BDR-Middle (worst mode) Horizontal**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5004.1481          | 61.76             | -15.59                  | 46.17              | 74                | -27.83         | peak   |
| 2   | 5004.1481          | 45.22             | -15.59                  | 29.63              | 54                | -24.37         | AVG    |
| 3   | 5919.457           | 57.55             | -12.07                  | 45.48              | 74                | -28.52         | peak   |
| 4   | 5919.457           | 40.72             | -12.07                  | 28.65              | 54                | -25.35         | AVG    |
| 5   | 7419.7514          | 55.92             | -9.08                   | 46.84              | 74                | -27.16         | peak   |
| 6   | 7419.7514          | 38.74             | -9.08                   | 29.66              | 54                | -24.34         | AVG    |
| 7   | 9087.2926          | 56.87             | -7.75                   | 49.12              | 74                | -24.88         | peak   |
| 8   | 9087.2926          | 39.23             | -7.75                   | 31.48              | 54                | -22.52         | AVG    |
| 9   | 12424.4058         | 54.72             | -3.18                   | 51.54              | 74                | -22.46         | peak   |
| 10  | 12424.4058         | 36.43             | -3.18                   | 33.25              | 54                | -20.75         | AVG    |
| 11  | 13165.3191         | 55.74             | -2.80                   | 52.94              | 74                | -21.06         | peak   |
| 12  | 13165.3191         | 38.54             | -2.80                   | 35.74              | 54                | -18.26         | AVG    |

BDR- Middle (worst mode) Vertical

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5211.2174          | 58.62             | -14.76                  | 43.86              | 74                | -30.14         | peak   |
| 2   | 5211.2174          | 41.35             | -14.76                  | 26.59              | 54                | -27.41         | AVG    |
| 3   | 6419.4813          | 57.07             | -11.08                  | 45.99              | 74                | -28.01         | peak   |
| 4   | 6419.4813          | 39.69             | -11.08                  | 28.61              | 54                | -25.39         | AVG    |
| 5   | 6802.2987          | 56.46             | -10.25                  | 46.21              | 74                | -27.79         | peak   |
| 6   | 6802.2987          | 38.14             | -10.25                  | 27.89              | 54                | -26.11         | AVG    |
| 7   | 9354.3238          | 55.43             | -6.45                   | 48.98              | 74                | -25.02         | peak   |
| 8   | 9354.3238          | 38.03             | -6.45                   | 31.58              | 54                | -22.42         | AVG    |
| 9   | 11930.7185         | 54.29             | -3.22                   | 51.07              | 74                | -22.93         | peak   |
| 10  | 11930.7185         | 36.87             | -3.22                   | 33.65              | 54                | -20.35         | AVG    |
| 11  | 15394.0164         | 52.66             | -1.04                   | 51.62              | 74                | -22.38         | peak   |
| 12  | 15394.0164         | 35.23             | -1.04                   | 34.19              | 54                | -19.81         | AVG    |

BDR-High (worst mode) Horizontal

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 6093.401           | 56.6              | -11.78                  | 44.82              | 74                | -29.18         | peak   |
| 2   | 6093.401           | 38.93             | -11.78                  | 27.15              | 54                | -26.85         | AVG    |
| 3   | 6494.2812          | 56.6              | -11.00                  | 45.6               | 74                | -28.4          | peak   |
| 4   | 6494.2812          | 39.63             | -11.00                  | 28.63              | 54                | -25.37         | AVG    |
| 5   | 7549.811           | 55.73             | -8.89                   | 46.84              | 74                | -27.16         | peak   |
| 6   | 7549.811           | 38.52             | -8.89                   | 29.63              | 54                | -24.37         | AVG    |
| 7   | 8282.955           | 55.98             | -8.51                   | 47.47              | 74                | -26.53         | peak   |
| 8   | 8282.955           | 39.03             | -8.51                   | 30.52              | 54                | -23.48         | AVG    |
| 9   | 8879.1668          | 55.92             | -7.81                   | 48.11              | 74                | -25.89         | peak   |
| 10  | 8879.1668          | 39.07             | -7.81                   | 31.26              | 54                | -22.74         | AVG    |
| 11  | 12424.4058         | 54.66             | -3.18                   | 51.48              | 74                | -22.52         | peak   |
| 12  | 12424.4058         | 36.77             | -3.18                   | 33.59              | 54                | -20.41         | AVG    |

BDR-High (worst mode) Vertical

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 4975.2461          | 61.03             | -15.60                  | 45.43              | 74                | -28.57         | peak   |
| 2   | 4975.2461          | 44.75             | -15.60                  | 29.15              | 54                | -24.85         | AVG    |
| 3   | 5333.3675          | 59.97             | -14.28                  | 45.69              | 74                | -28.31         | peak   |
| 4   | 5333.3675          | 43.24             | -14.28                  | 28.96              | 54                | -25.04         | AVG    |
| 5   | 6802.2987          | 55.76             | -10.25                  | 45.51              | 74                | -28.49         | peak   |
| 6   | 6802.2987          | 37.88             | -10.25                  | 27.63              | 54                | -26.37         | AVG    |
| 7   | 8982.627           | 55.95             | -7.74                   | 48.21              | 74                | -25.79         | peak   |
| 8   | 8982.627           | 39                | -7.74                   | 31.26              | 54                | -22.74         | AVG    |
| 9   | 9912.1566          | 54.78             | -6.14                   | 48.64              | 74                | -25.36         | peak   |
| 10  | 9912.1566          | 37.34             | -6.14                   | 31.2               | 54                | -22.8          | AVG    |
| 11  | 11523.2011         | 54.43             | -4.51                   | 49.92              | 74                | -24.08         | peak   |
| 12  | 11523.2011         | 35.71             | -4.51                   | 31.2               | 54                | -22.8          | AVG    |

EDR-Low (worst mode) Horizontal

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5004.1481          | 61.51             | -15.59                  | 45.92              | 74                | -28.08         | peak   |
| 2   | 5004.1481          | 45.22             | -15.59                  | 29.63              | 54                | -24.37         | AVG    |
| 3   | 5750.4786          | 57.65             | -13.08                  | 44.57              | 74                | -29.43         | peak   |
| 4   | 5750.4786          | 41.49             | -13.08                  | 28.41              | 54                | -25.59         | AVG    |
| 5   | 6419.4813          | 57.09             | -11.08                  | 46.01              | 74                | -27.99         | peak   |
| 6   | 6419.4813          | 40.71             | -11.08                  | 29.63              | 54                | -24.37         | AVG    |
| 7   | 6961.7434          | 56.11             | -10.04                  | 46.07              | 74                | -27.93         | peak   |
| 8   | 6961.7434          | 38.5              | -10.04                  | 28.46              | 54                | -25.54         | AVG    |
| 9   | 8982.627           | 56.34             | -7.74                   | 48.6               | 74                | -25.4          | peak   |
| 10  | 8982.627           | 39.33             | -7.74                   | 31.59              | 54                | -22.41         | AVG    |
| 11  | 12863.7942         | 56.08             | -3.04                   | 53.04              | 74                | -20.96         | peak   |
| 12  | 12863.7942         | 38.68             | -3.04                   | 35.64              | 54                | -18.36         | AVG    |

EDR-Low (worst mode) Vertical

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 6093.401           | 56.88             | -11.78                  | 45.1               | 74                | -28.9          | peak   |
| 2   | 6093.401           | 40.93             | -11.78                  | 29.15              | 54                | -24.85         | AVG    |
| 3   | 7334.292           | 56.33             | -9.32                   | 47.01              | 74                | -26.99         | peak   |
| 4   | 7334.292           | 38.95             | -9.32                   | 29.63              | 54                | -24.37         | AVG    |
| 5   | 9463.3204          | 55.47             | -6.37                   | 49.1               | 74                | -24.9          | peak   |
| 6   | 9463.3204          | 37.89             | -6.37                   | 31.52              | 54                | -22.48         | AVG    |
| 7   | 11523.2011         | 55.78             | -4.51                   | 51.27              | 74                | -22.73         | peak   |
| 8   | 11523.2011         | 38.2              | -4.51                   | 33.69              | 54                | -20.31         | AVG    |
| 9   | 12863.7942         | 55.72             | -3.04                   | 52.68              | 74                | -21.32         | peak   |
| 10  | 12863.7942         | 37.6              | -3.04                   | 34.56              | 54                | -19.44         | AVG    |
| 11  | 15394.0164         | 54.33             | -1.04                   | 53.29              | 74                | -20.71         | peak   |
| 12  | 15394.0164         | 35.11             | -1.04                   | 34.07              | 54                | -19.93         | AVG    |

EDR-Middle (worst mode) Horizontal

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5004.1481          | 69.26             | -22.09                  | 47.17              | 74                | -26.83         | peak   |
| 2   | 5004.1481          | 51.72             | -22.09                  | 29.63              | 54                | -24.37         | AVG    |
| 3   | 6802.2987          | 64                | -18.38                  | 45.62              | 74                | -28.38         | peak   |
| 4   | 6841.8144          | 47.23             | -18.28                  | 28.95              | 54                | -25.05         | AVG    |
| 5   | 7419.7514          | 64.61             | -17.77                  | 46.84              | 74                | -27.16         | peak   |
| 6   | 7419.7514          | 46.72             | -17.77                  | 28.95              | 54                | -25.05         | AVG    |
| 7   | 8428.1455          | 66.46             | -17.08                  | 49.38              | 74                | -24.62         | peak   |
| 8   | 8428.1455          | 48.56             | -17.08                  | 31.48              | 54                | -22.52         | AVG    |
| 9   | 12210.3721         | 66.64             | -14.66                  | 51.98              | 74                | -22.02         | peak   |
| 10  | 12210.3721         | 48.28             | -14.66                  | 33.62              | 54                | -20.38         | AVG    |
| 11  | 13165.3191         | 68.81             | -15.37                  | 53.44              | 74                | -20.56         | peak   |
| 12  | 13165.3191         | 50.84             | -15.37                  | 35.47              | 54                | -18.53         | AVG    |

EDR- Middle (worst mode) Vertical

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 4508.684           | 65.97             | -22.97                  | 43                 | 74                | -31            | peak   |
| 2   | 4508.684           | 49.56             | -22.97                  | 26.59              | 54                | -27.41         | AVG    |
| 3   | 5004.1481          | 66.5              | -22.09                  | 44.41              | 74                | -29.59         | peak   |
| 4   | 5004.1481          | 49.1              | -22.09                  | 27.01              | 54                | -26.99         | AVG    |
| 5   | 6802.2987          | 65.09             | -18.38                  | 46.71              | 74                | -27.29         | peak   |
| 6   | 6802.2987          | 47.8              | -18.38                  | 29.42              | 54                | -24.58         | AVG    |
| 7   | 9354.3238          | 65.74             | -16.26                  | 49.48              | 74                | -24.52         | peak   |
| 8   | 9354.3238          | 47.52             | -16.26                  | 31.26              | 54                | -22.74         | AVG    |
| 9   | 11930.7185         | 66.24             | -14.67                  | 51.57              | 74                | -22.43         | peak   |
| 10  | 11930.7185         | 48.82             | -14.67                  | 34.15              | 54                | -19.85         | AVG    |
| 11  | 14782.3307         | 67.3              | -14.72                  | 52.58              | 74                | -21.42         | peak   |
| 12  | 14782.3307         | 50.74             | -14.72                  | 36.02              | 54                | -17.98         | AVG    |

EDR-High (worst mode) Horizontal

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 4777.5536          | 66.13             | -22.44                  | 43.69              | 74                | -30.31         | peak   |
| 2   | 4777.5536          | 48.59             | -22.44                  | 26.15              | 54                | -27.85         | AVG    |
| 3   | 6494.2812          | 64.42             | -18.82                  | 45.6               | 74                | -28.4          | peak   |
| 4   | 6494.2812          | 48.45             | -18.82                  | 29.63              | 54                | -24.37         | AVG    |
| 5   | 7549.811           | 65.46             | -17.62                  | 47.84              | 74                | -26.16         | peak   |
| 6   | 7549.811           | 47.48             | -17.62                  | 29.86              | 54                | -24.14         | AVG    |
| 7   | 9408.6643          | 64.91             | -16.26                  | 48.65              | 74                | -25.35         | peak   |
| 8   | 9408.6643          | 47.72             | -16.26                  | 31.46              | 54                | -22.54         | AVG    |
| 9   | 12424.4058         | 65.2              | -14.72                  | 50.48              | 74                | -23.52         | peak   |
| 10  | 12424.4058         | 47.86             | -14.72                  | 33.14              | 54                | -20.86         | AVG    |
| 11  | 13869.844          | 66.32             | -14.83                  | 51.49              | 74                | -22.51         | peak   |
| 12  | 13869.844          | 49.02             | -14.83                  | 34.19              | 54                | -19.81         | AVG    |

EDR-High (worst mode) Vertical

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 4975.2461          | 68.53             | -22.10                  | 46.43              | 74                | -27.57         | peak   |
| 2   | 4975.2461          | 51.73             | -22.10                  | 29.63              | 54                | -24.37         | AVG    |
| 3   | 5333.3675          | 67.76             | -21.07                  | 46.69              | 74                | -27.31         | peak   |
| 4   | 5333.3675          | 49.52             | -21.07                  | 28.45              | 54                | -25.55         | AVG    |
| 5   | 8331.0717          | 64.4              | -17.13                  | 47.27              | 74                | -26.73         | peak   |
| 6   | 8331.0717          | 46.77             | -17.13                  | 29.64              | 54                | -24.36         | AVG    |
| 7   | 9912.1566          | 65.47             | -16.33                  | 49.14              | 74                | -24.86         | peak   |
| 8   | 9912.1566          | 48.11             | -16.33                  | 31.78              | 54                | -22.22         | AVG    |
| 9   | 11523.2011         | 65.94             | -15.52                  | 50.42              | 74                | -23.58         | peak   |
| 10  | 11523.2011         | 46.78             | -15.52                  | 31.26              | 54                | -22.74         | AVG    |
| 11  | 13869.844          | 66.95             | -14.83                  | 52.12              | 74                | -21.88         | peak   |
| 12  | 13869.844          | 49.69             | -14.83                  | 34.86              | 54                | -19.14         | AVG    |

Node:

- 1、 Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported..
- 2、 Radiated emissions measured in frequency above 1GHz were made with an instrument using peak/average detector mode.
- 3、 Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4、 Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.
- 5、 Margin (dB), result in dBuV/m – limit in dBuV/m.

### Restricted band Requirements BDR-Low (worst mode)

#### Horizontal

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2381.7735          | 76.26             | -19.95                  | 56.31              | 74                | -17.69         | peak   |
| 2   | 2381.7735          | 59.71             | -19.95                  | 39.76              | 54                | -14.24         | AVG    |
| 3   | 2390               | 72.94             | -19.91                  | 53.03              | 74                | -20.97         | peak   |
| 4   | 2390               | 58.37             | -19.91                  | 38.46              | 54                | -15.54         | AVG    |

#### Vertical

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2382.1543          | 74.52             | -19.95                  | 54.57              | 74                | -19.43         | peak   |
| 2   | 2382.1543          | 56.9              | -19.95                  | 36.95              | 54                | -17.05         | AVG    |
| 3   | 2390               | 70.65             | -19.91                  | 50.74              | 74                | -23.26         | peak   |
| 4   | 2390               | 53.8              | -19.91                  | 33.89              | 54                | -20.11         | AVG    |

### BDR-High (worst mode)

#### Horizontal

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.5             | 73.02             | -19.91                  | 53.11              | 74                | -20.89         | peak   |
| 2   | 2483.5             | 56.5              | -19.91                  | 36.59              | 54                | -17.41         | AVG    |
| 3   | 2499.8957          | 75.46             | -19.88                  | 55.58              | 74                | -18.42         | peak   |
| 4   | 2499.8957          | 58.29             | -19.88                  | 38.41              | 54                | -15.59         | AVG    |

#### Vertical

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.5             | 73.96             | -19.91                  | 54.05              | 74                | -19.95         | peak   |
| 2   | 2483.5             | 56.87             | -19.91                  | 36.96              | 54                | -17.04         | AVG    |
| 3   | 2499.7914          | 76.12             | -19.88                  | 56.24              | 74                | -17.76         | peak   |
| 4   | 2499.7914          | 58.84             | -19.88                  | 38.96              | 54                | -15.04         | AVG    |

### EDR-Low (worst mode)

#### Horizontal

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2381.5831          | 77.08             | -19.95                  | 57.13              | 74                | -16.87         | peak   |
| 2   | 2381.5831          | 59.1              | -19.95                  | 39.15              | 54                | -14.85         | AVG    |
| 3   | 2390               | 73.15             | -19.91                  | 53.24              | 74                | -20.76         | peak   |
| 4   | 2390               | 58.38             | -19.91                  | 38.47              | 54                | -15.53         | AVG    |

## Vertical

| No. | Frequency | Reading | Correct      | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 2381.7734 | 75      | -19.95       | 55.05    | 74       | -18.95 | peak   |
| 2   | 2381.7734 | 58.1    | -19.95       | 38.15    | 54       | -15.85 | AVG    |
| 3   | 2390      | 72.34   | -19.91       | 52.43    | 74       | -21.57 | peak   |
| 4   | 2390      | 56.86   | -19.91       | 36.95    | 54       | -17.05 | AVG    |

## EDR-High (worst mode)

## Horizontal

| No. | Frequency | Reading | Correct      | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 2483.5    | 75.23   | -19.91       | 55.32    | 74       | -18.68 | peak   |
| 2   | 2483.5    | 58.17   | -19.91       | 38.26    | 54       | -15.74 | AVG    |
| 3   | 2495.05   | 75.54   | -19.89       | 55.65    | 74       | -18.35 | peak   |
| 4   | 2495.05   | 59.3    | -19.89       | 39.41    | 54       | -14.59 | AVG    |

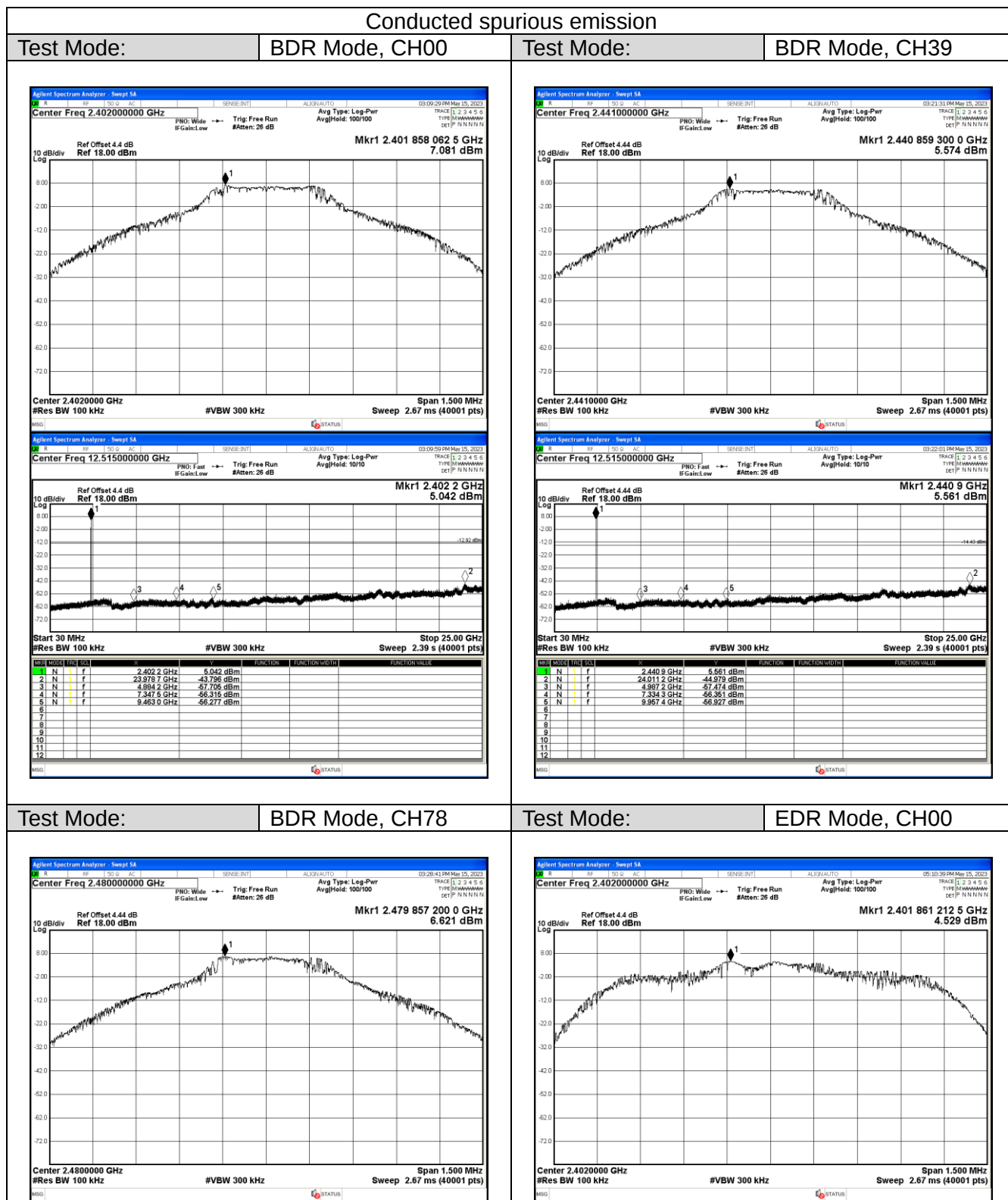
## Vertical

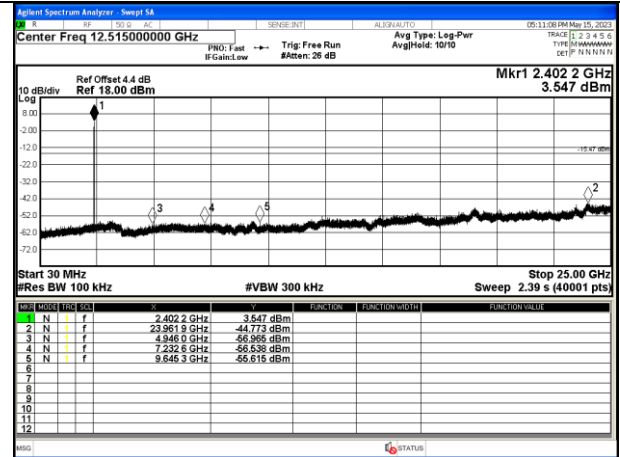
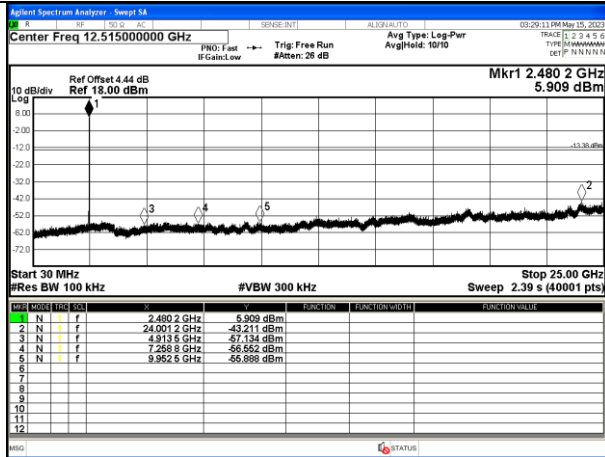
| No. | Frequency | Reading | Correct      | Result   | Limit    | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
|     | (MHz)     | (dBuV)  | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 1   | 2483.5    | 71.6    | -19.91       | 51.69    | 74       | -22.31 | peak   |
| 2   | 2483.5    | 54.76   | -19.91       | 34.85    | 54       | -19.15 | AVG    |
| 3   | 2494.6853 | 73.17   | -19.89       | 53.28    | 74       | -20.72 | peak   |
| 4   | 2494.6853 | 55.05   | -19.89       | 35.16    | 54       | -18.84 | AVG    |

## Note:

Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

## Appendix A.3 Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth



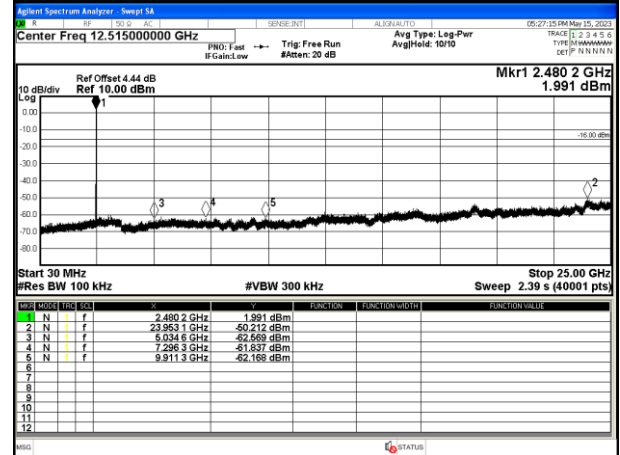
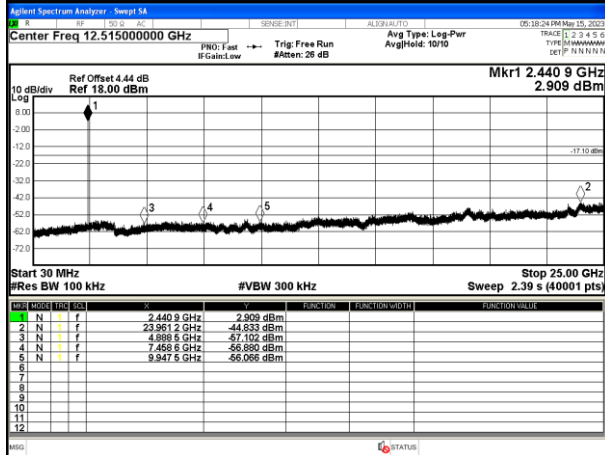
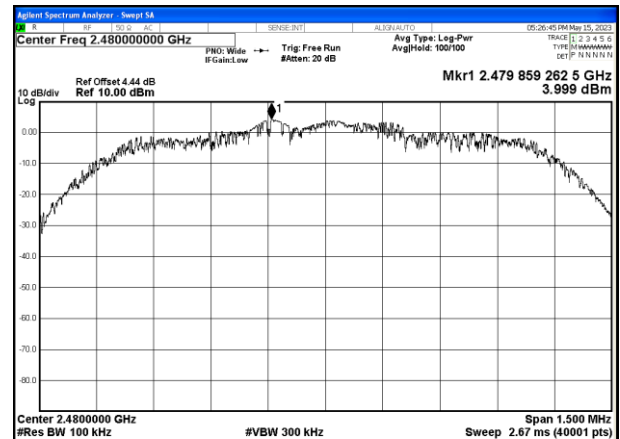
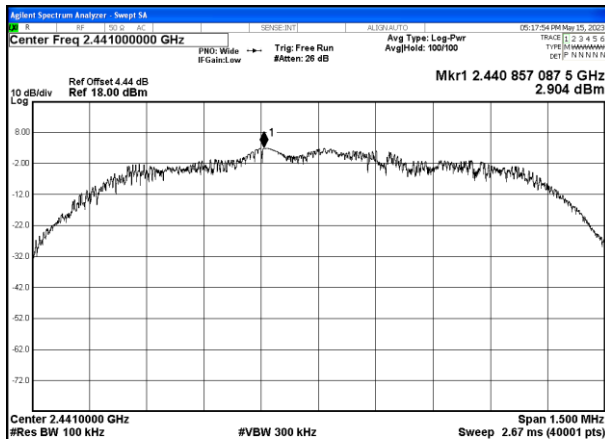


Test Mode:

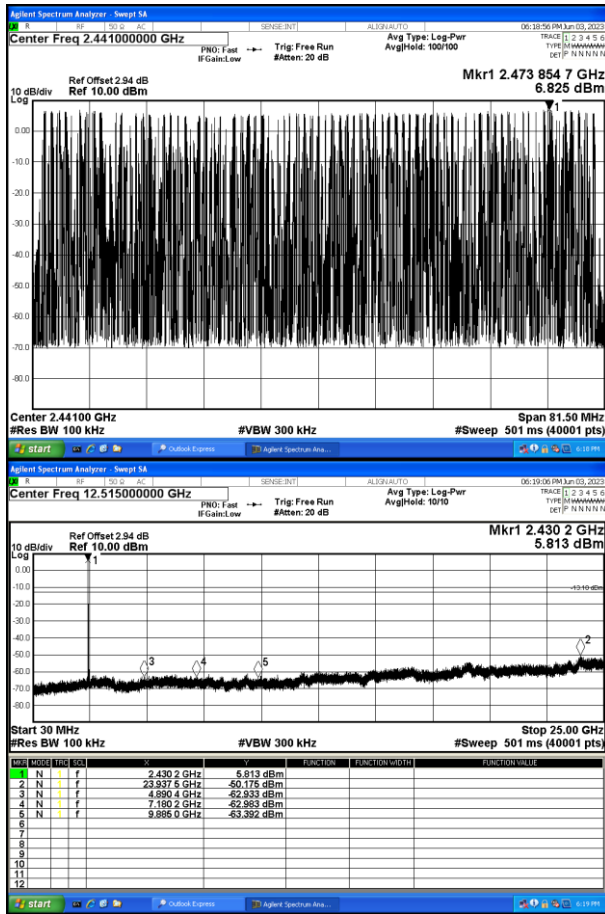
EDR Mode, CH39

Test Mode:

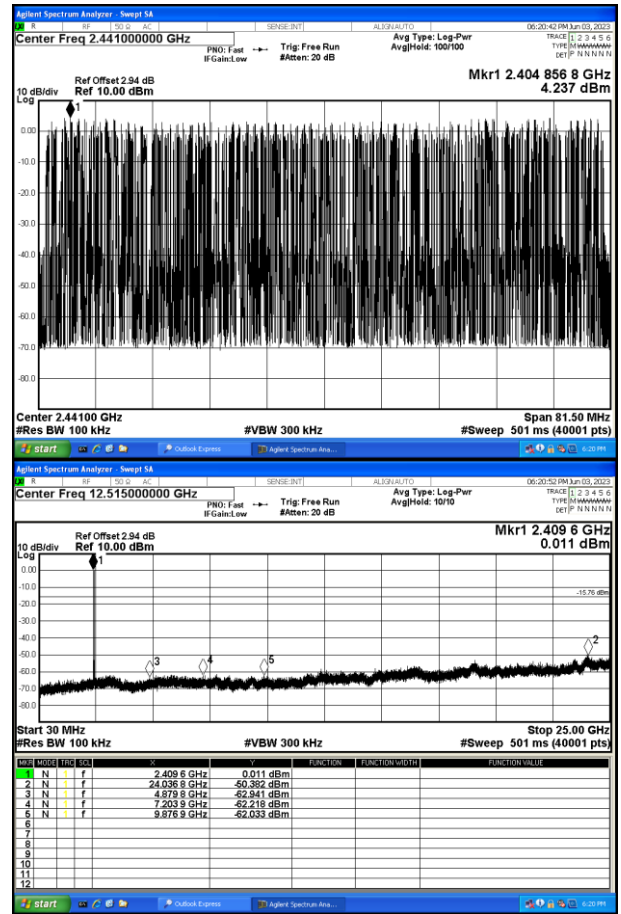
EDR Mode, CH78



Test Mode: BDR Mode, Hopping



Test Mode: EDR Mode, Hopping

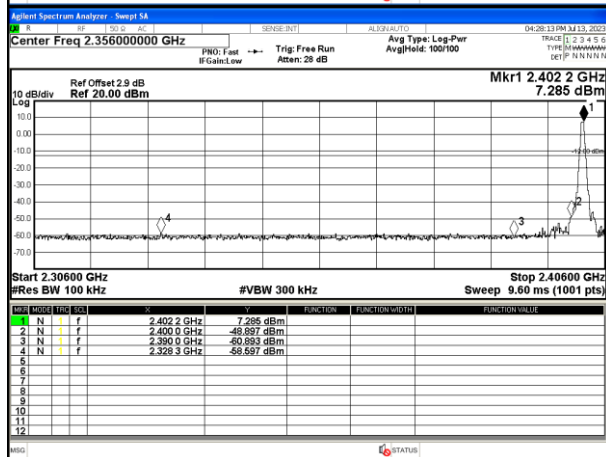
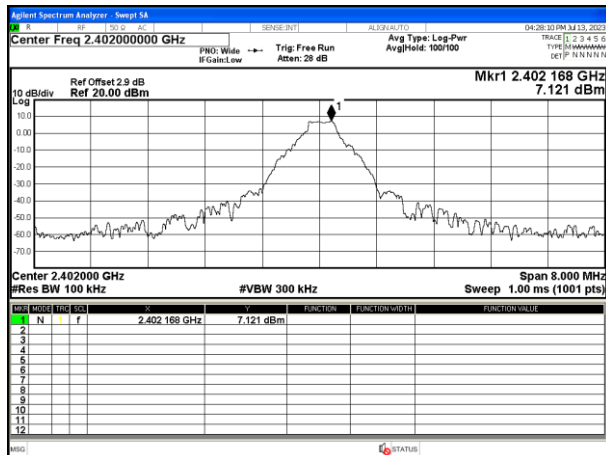


Note:

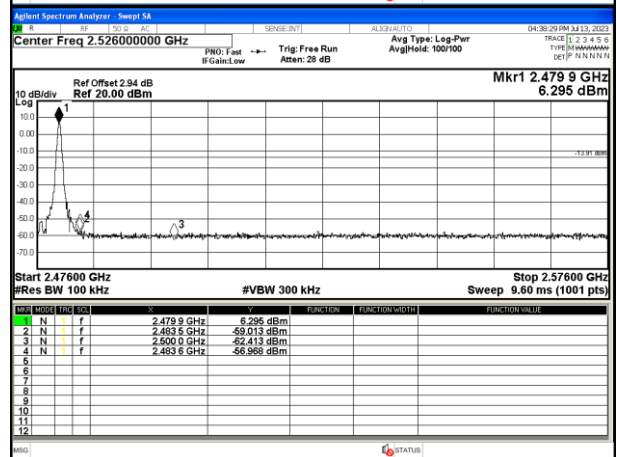
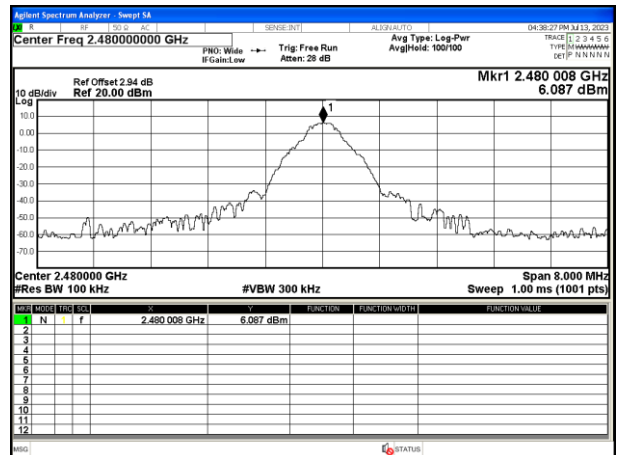
Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

For Band edge (it's also the reference level for conducted spurious emission)

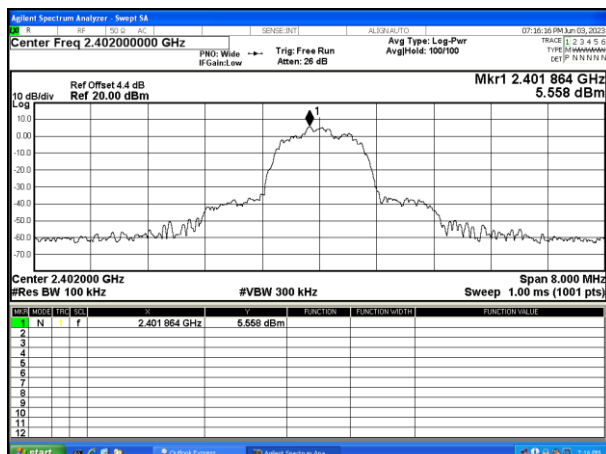
Test Mode: BDR Mode, CH00



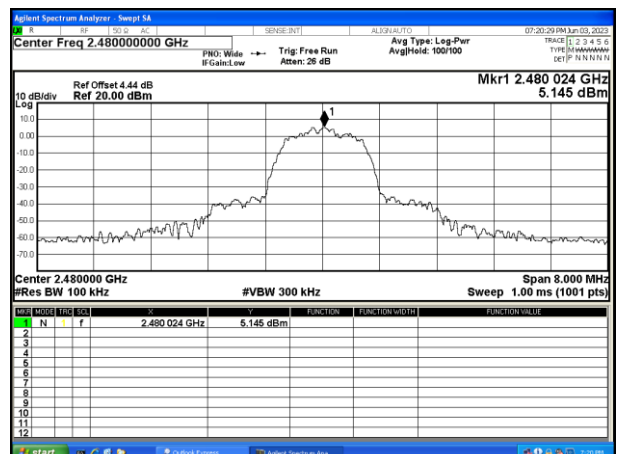
Test Mode: BDR Mode, CH78

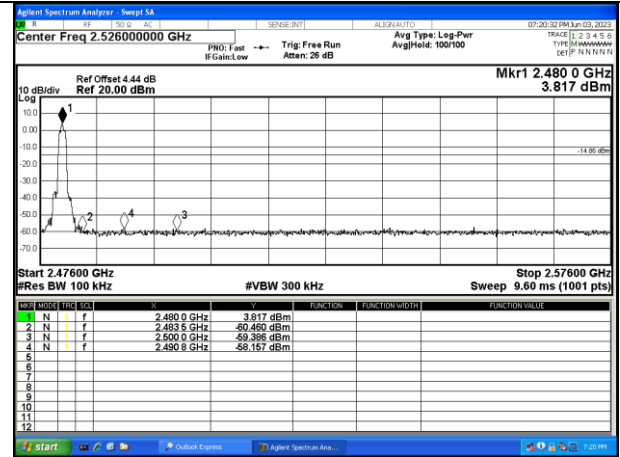
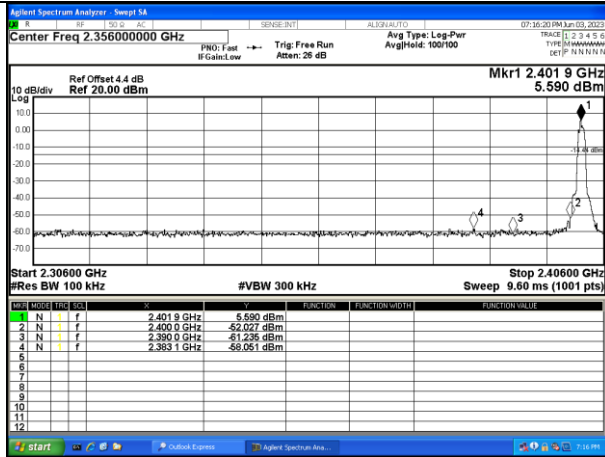


Test Mode: EDR Mode, CH00



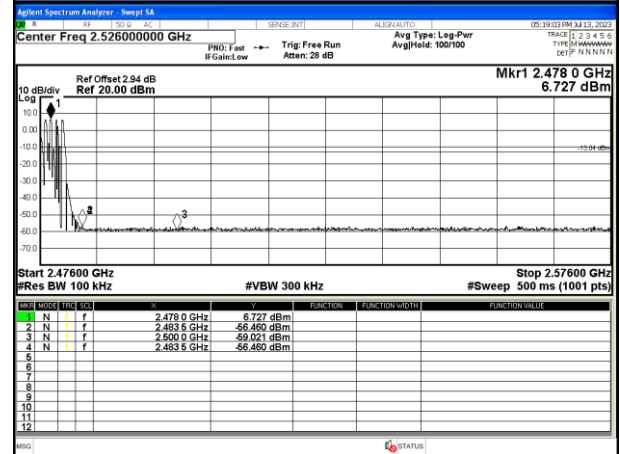
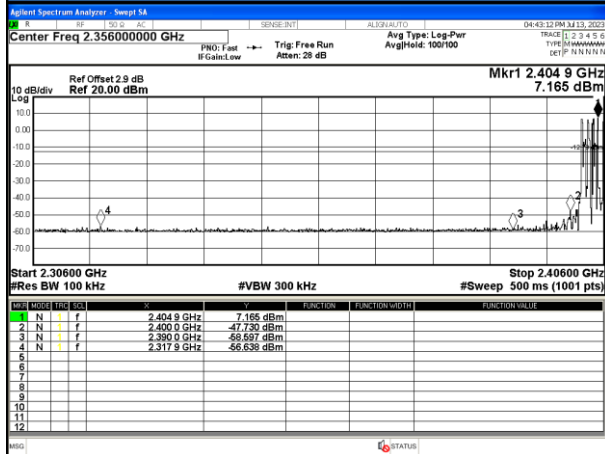
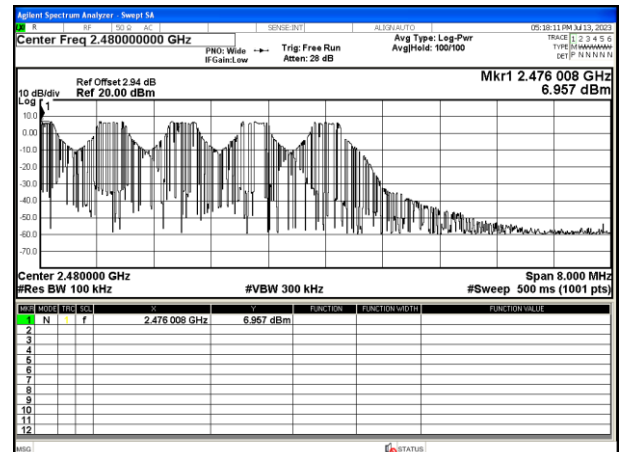
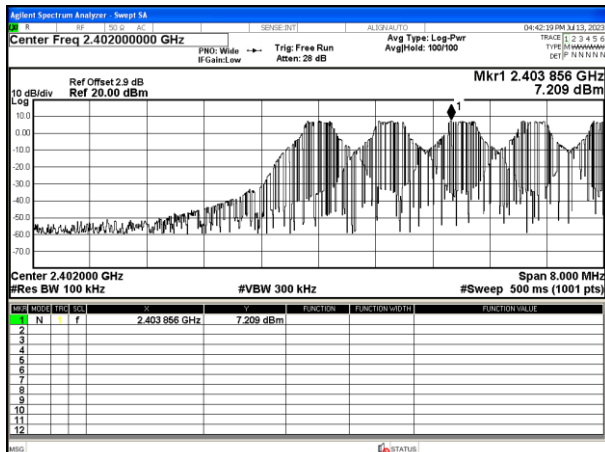
Test Mode: EDR Mode, CH78



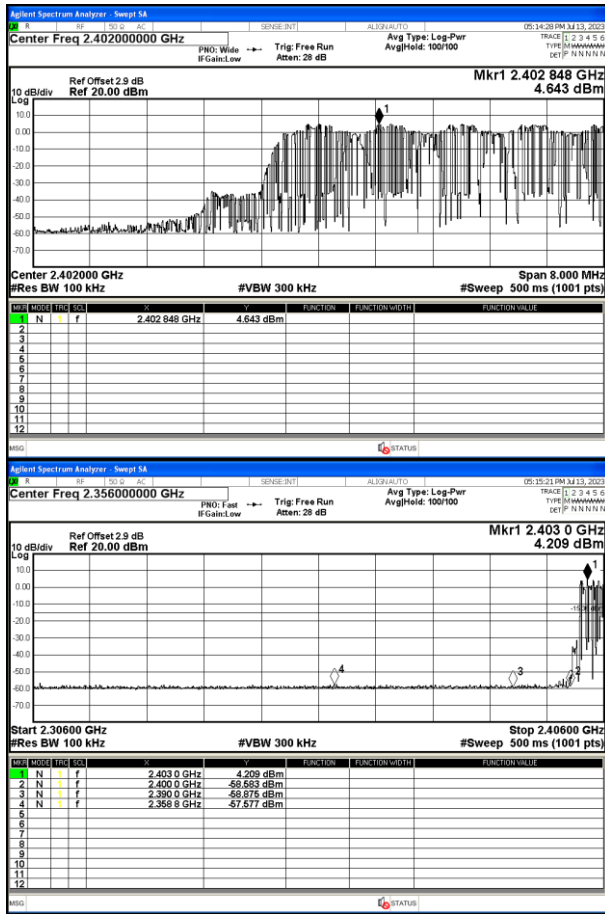


Test Mode: BDR Mode, Hopping

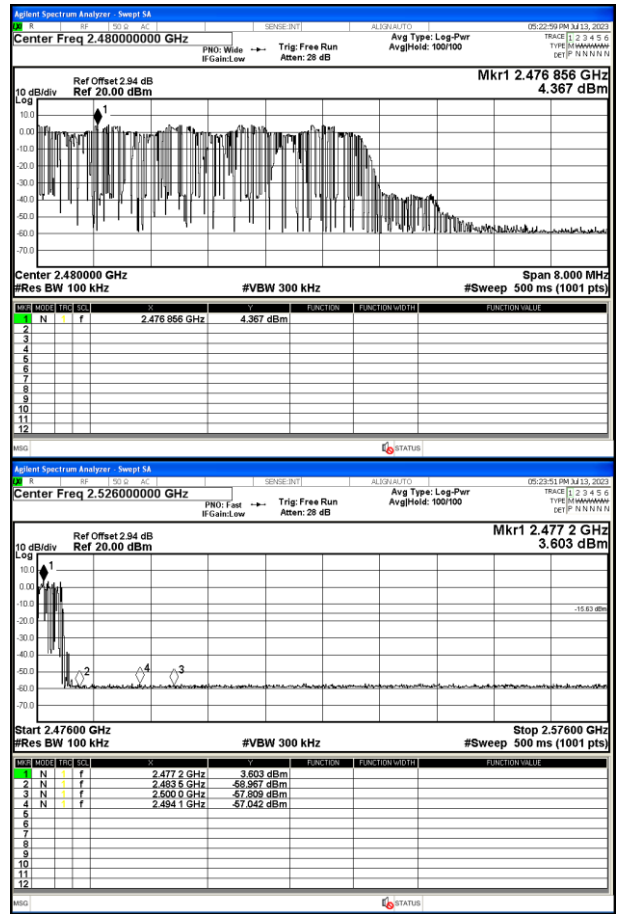
Test Mode: BDR Mode, Hopping



Test Mode: EDR Mode, Hopping



Test Mode: EDR Mode, Hopping



Note:

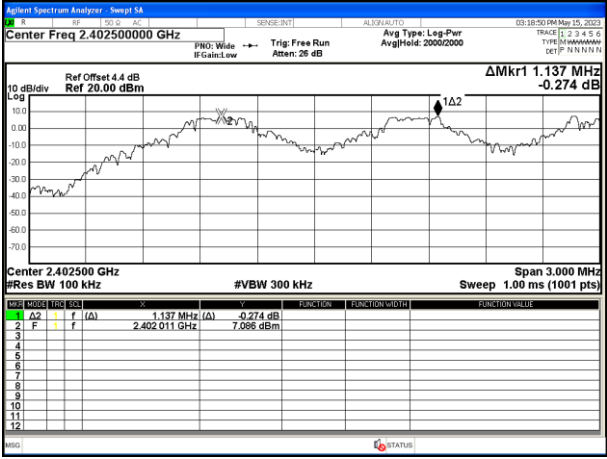
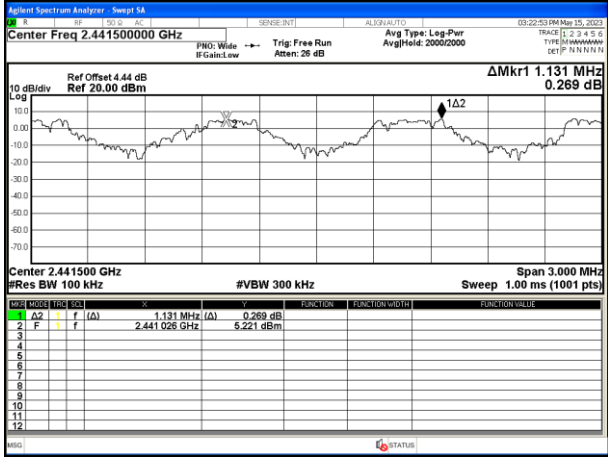
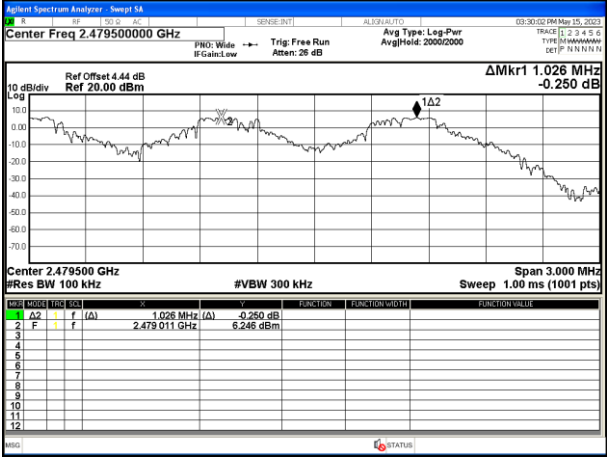
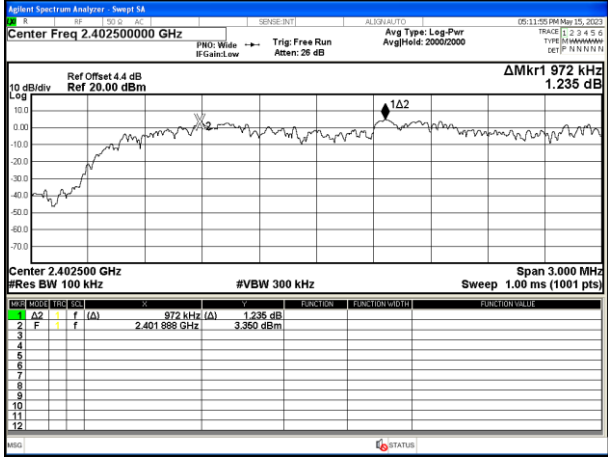
Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

## Appendix A.4 Test Results of Carrier Frequency Separation

| Mode     | HFS (MHz) | Limit (MHz) | Verdict |
|----------|-----------|-------------|---------|
| BDR 2402 | 1.137     | 0.572       | Pass    |
| BDR 2441 | 1.131     | 0.570       | Pass    |
| BDR 2480 | 1.026     | 0.567       | Pass    |
| EDR 2402 | 0.972     | 0.806       | Pass    |
| EDR 2441 | 0.990     | 0.806       | Pass    |
| EDR 2480 | 1.080     | 0.806       | Pass    |

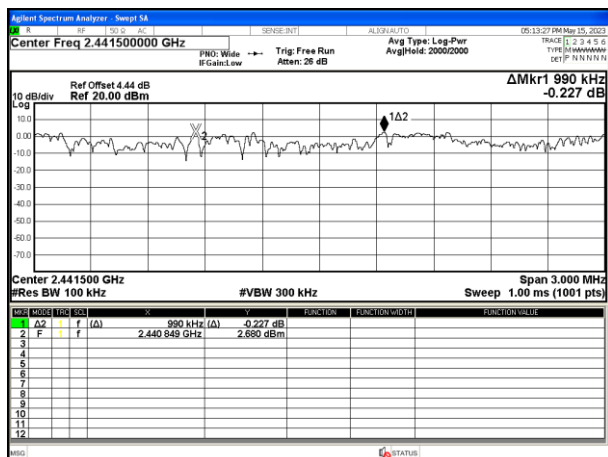
Note:

Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.

|                                  |                                                                                     |                                  |                                                                                      |
|----------------------------------|-------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------|
| <b>Test Mode:</b> BDR Mode, CH00 |   | <b>Test Mode:</b> BDR Mode, CH39 |   |
| <b>Test Mode:</b> BDR Mode, CH78 |  | <b>Test Mode:</b> EDR Mode, CH00 |  |

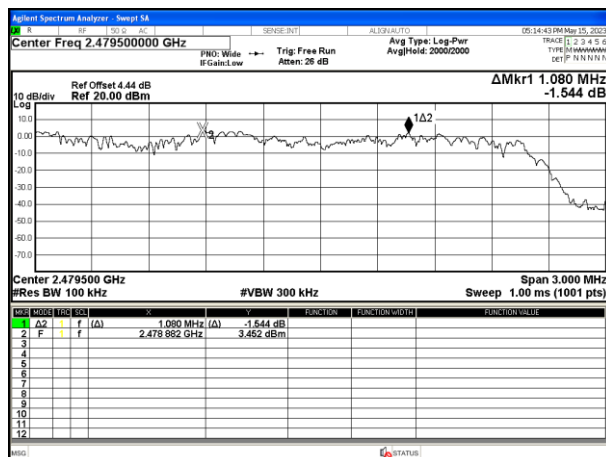
Test Mode:

EDR Mode, CH39



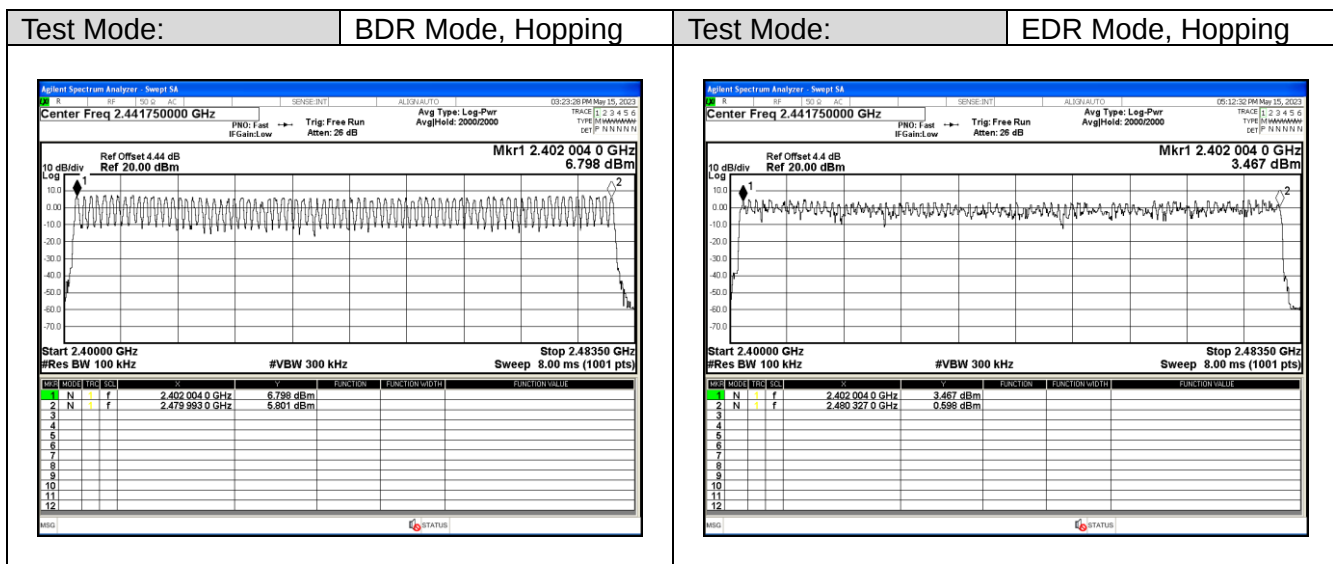
Test Mode:

EDR Mode, CH78



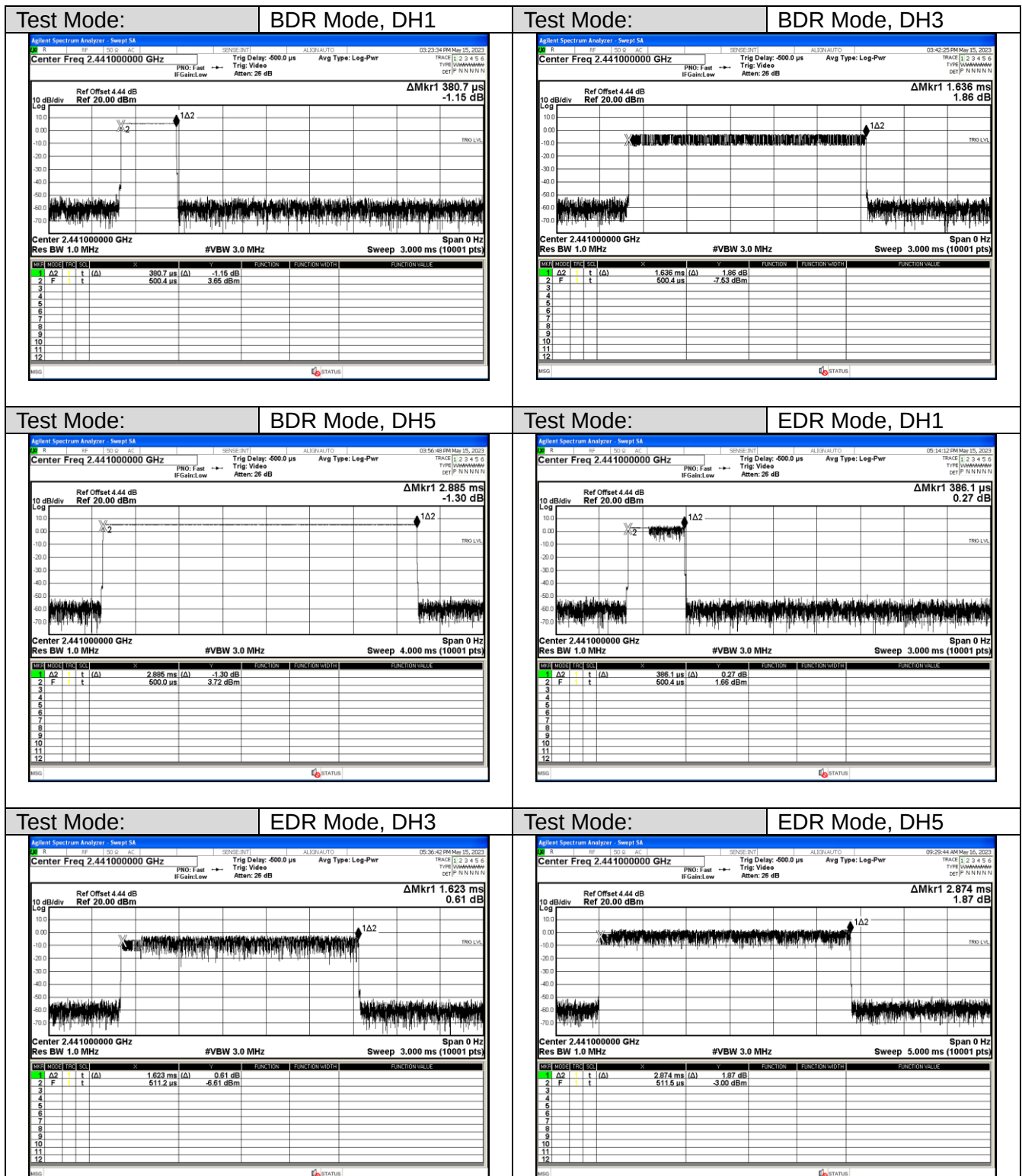
## Appendix A.5 Test Results of Number of Hopping Frequency

| Mode        | Hopping Number | Limit | Verdict |
|-------------|----------------|-------|---------|
| BDR Hopping | 79             | 15    | Pass    |
| EDR Hopping | 79             | 15    | Pass    |



## Appendix A.6 Test Results of Time of Occupancy

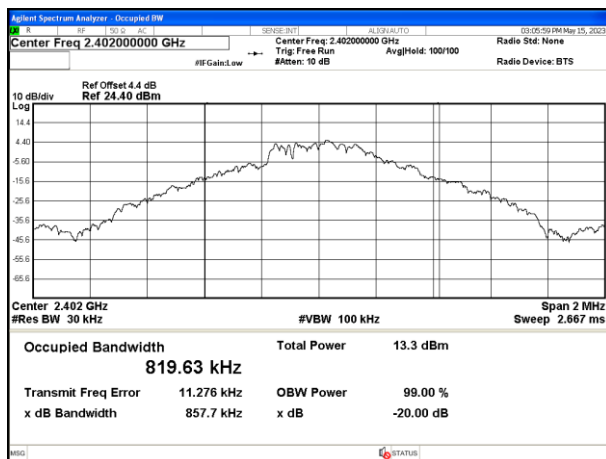
| Mode  | Frequency (MHz) | Pulse Time (ms) | Total Dwell Time (ms) | Period Time (ms) | Limit (ms) | Verdict |
|-------|-----------------|-----------------|-----------------------|------------------|------------|---------|
| 1-DH1 | 2441            | 0.381           | 120.301               | 31600            | 400        | Pass    |
| 1-DH3 | 2441            | 1.636           | 258.52                | 31600            | 400        | Pass    |
| 1-DH5 | 2441            | 2.885           | 273.479               | 31600            | 400        | Pass    |
| 3-DH1 | 2441            | 0.386           | 122.008               | 31600            | 400        | Pass    |
| 3-DH3 | 2441            | 1.623           | 256.481               | 31600            | 400        | Pass    |
| 3-DH5 | 2441            | 2.874           | 272.455               | 31600            | 400        | Pass    |



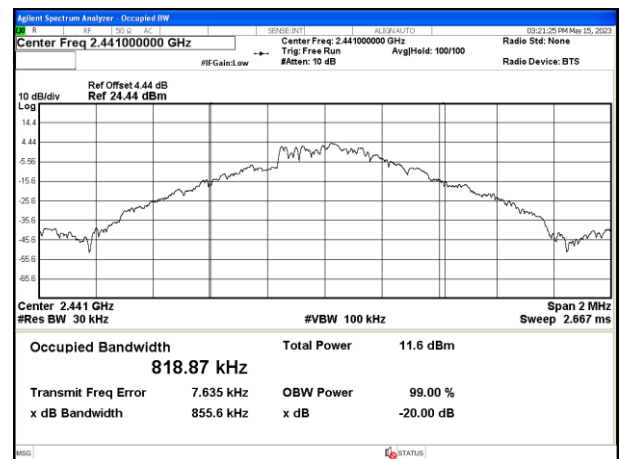
## Appendix A.7 Test Results of 20dB & 99% BANDWIDTH

| Mode    | Frequency [MHz] | 99% Bandwidth [MHz] | 20dB Bandwidth [MHz] |
|---------|-----------------|---------------------|----------------------|
| BDR DH1 | 2402            | 0.8196              | 0.8577               |
| BDR DH1 | 2441            | 0.8189              | 0.8556               |
| BDR DH1 | 2480            | 0.8255              | 0.8499               |
| BDR DH5 | 2402            | 0.8572              | 0.9441               |
| BDR DH5 | 2441            | 0.8481              | 0.9401               |
| BDR DH5 | 2480            | 0.8532              | 0.9511               |
| EDR DH1 | 2402            | 1.1452              | 1.2089               |
| EDR DH1 | 2441            | 1.145               | 1.2176               |
| EDR DH1 | 2480            | 1.1487              | 1.2281               |
| EDR DH5 | 2402            | 1.1828              | 1.3004               |
| EDR DH5 | 2441            | 1.1988              | 1.3141               |
| EDR DH5 | 2480            | 1.1782              | 1.2859               |

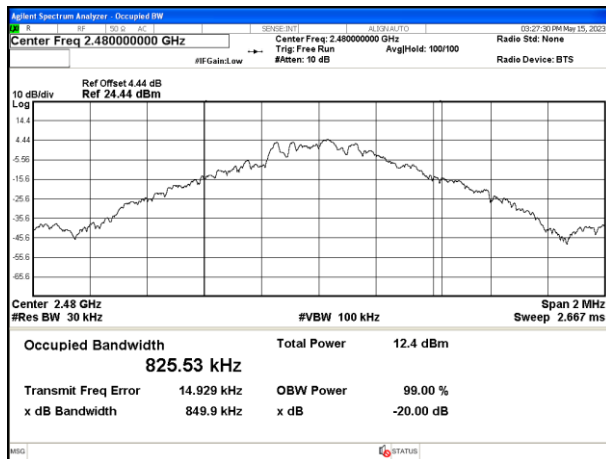
Test Mode: BDR Mode, DH1,CH00



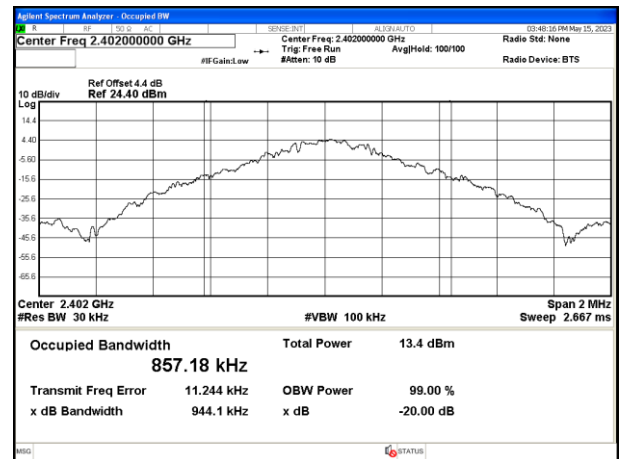
Test Mode: BDR Mode, DH1,CH39



Test Mode: BDR Mode, DH1,CH78

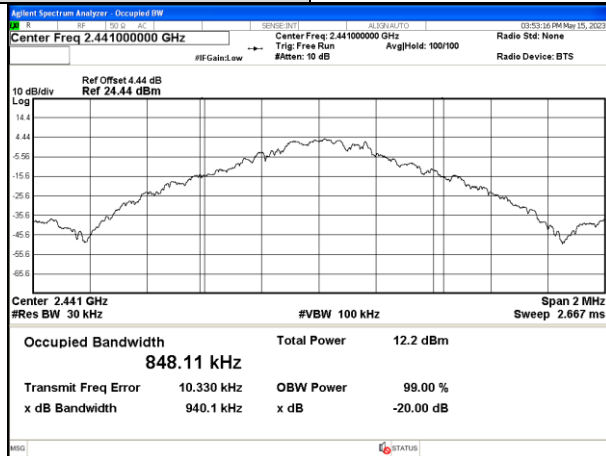


Test Mode: BDR Mode, DH5,CH00

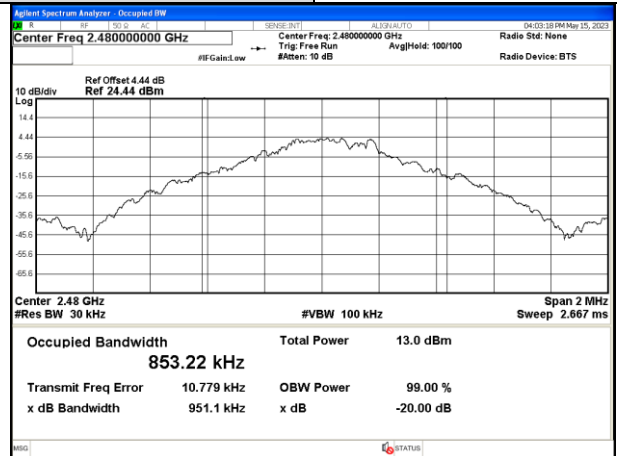




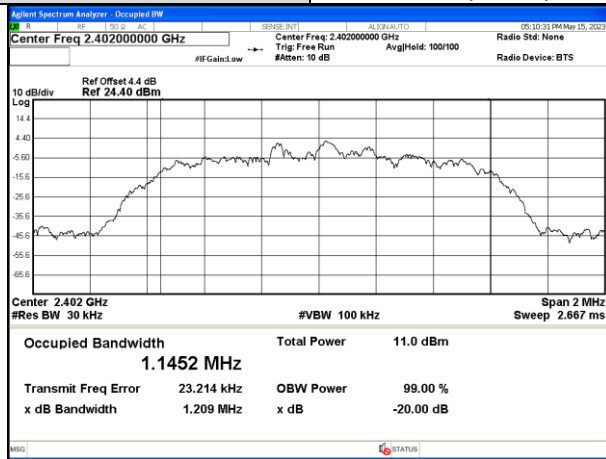
Test Mode: BDR Mode, DH5,CH39



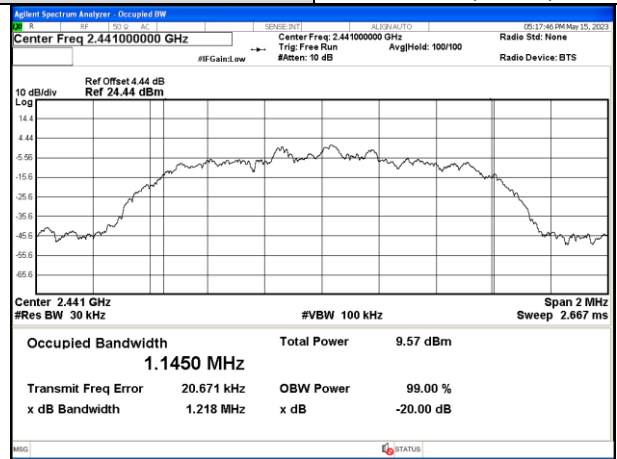
Test Mode: BDR Mode, DH5,CH78



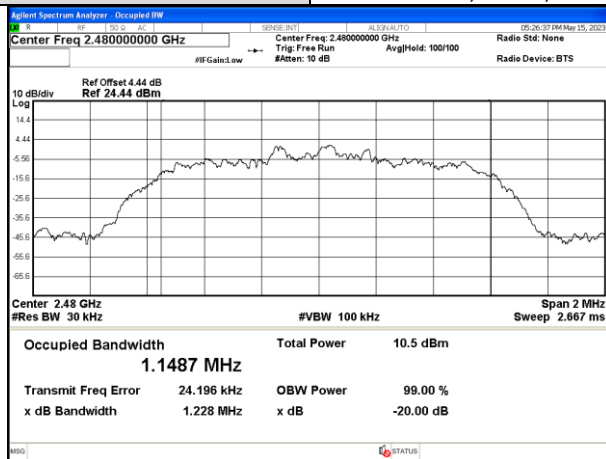
Test Mode: EDR Mode, DH1,CH00



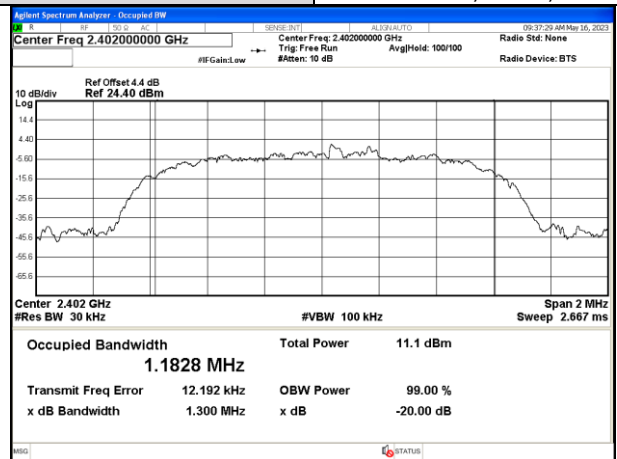
Test Mode: EDR Mode, DH1,CH39

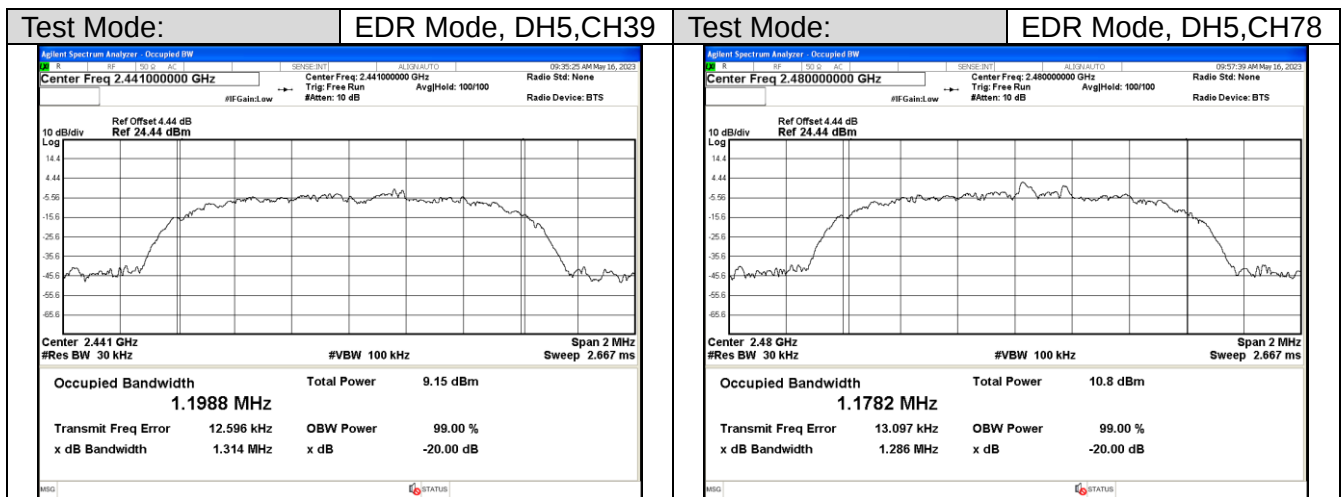


Test Mode: EDR Mode, DH1,CH78



Test Mode: EDR Mode, DH5,CH00





## Appendix A.8 Test Results of Maximum Conducted Output Power

| Mode | Frequency [MHz] | Measured of Peak Power |        | Limit [W] |
|------|-----------------|------------------------|--------|-----------|
|      |                 | dBm                    | W      |           |
| BDR  | 2402            | 7.175                  | 0.0052 | < 0.125   |
|      | 2441            | 5.695                  | 0.0037 | < 0.125   |
|      | 2480            | 6.700                  | 0.0047 | < 0.125   |
| EDR  | 2402            | 6.931                  | 0.0049 | < 0.125   |
|      | 2441            | 5.231                  | 0.0033 | < 0.125   |
|      | 2480            | 6.353                  | 0.0043 | < 0.125   |

**Note:**

1) The cable loss is taken into account in results.

2) Antenna gain(G) of 802.11 b/g/n: 3.54 dBi(ANT1)

e.i.r.p.=P(Peak power)+ G, which is far below the 4 W

3) Both modulation methods of EDR have been tested, and only the data of the worst modulation method(8DPSK) is reflected in this document.