

## Appendix D: Test Results of Radiated Spurious Emissions for PCB

### Antenna

ANT 14, Main Source, ECC, PIC32WM-BZ6204UC  
Band Edges, 2.31GHz ~ 2.5GHz

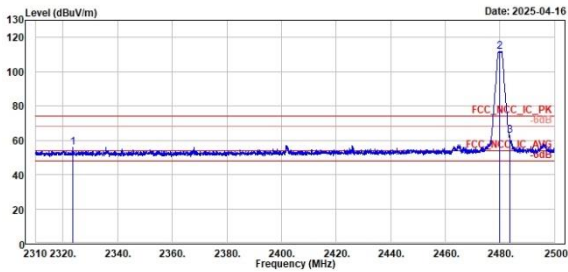
#### IEEE® 802.15.4\_2M

##### High Channel (Horizontal) Peak

##### High Channel (Vertical) Peak



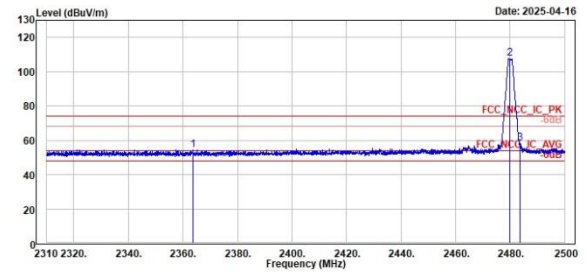
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|     | Freq    | Level  | Read         | Limit | Over  | APos   | TPos | Remark   | Pol/Phase  | Note |
|-----|---------|--------|--------------|-------|-------|--------|------|----------|------------|------|
|     | MHz     | dBuV/m | Level Factor | Line  | Limit | dB     | cm   | deg      |            |      |
| 1   | 2323.68 | 55.73  | 17.97        | 37.76 | 74.00 | -18.27 | 212  | 150 Peak | Horizontal |      |
| 2 * | 2480.00 | 111.70 | 73.10        | 38.60 | 74.00 | 37.70  | 212  | 150 Peak | Horizontal |      |
| 3   | 2483.50 | 62.85  | 24.25        | 38.60 | 74.00 | -11.15 | 212  | 150 Peak | Horizontal |      |



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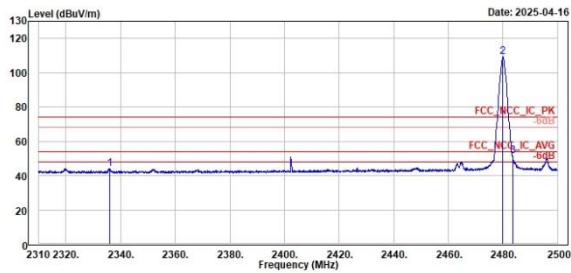
|     | Freq    | Level  | Read         | Limit | Over  | APos   | TPos | Remark   | Pol/Phase | Note |
|-----|---------|--------|--------------|-------|-------|--------|------|----------|-----------|------|
|     | MHz     | dBuV/m | Level Factor | Line  | Limit | dB     | cm   | deg      |           |      |
| 1   | 2363.68 | 54.47  | 16.50        | 37.97 | 74.00 | -19.53 | 319  | 304 Peak | Vertical  |      |
| 2 * | 2480.00 | 107.51 | 68.91        | 38.60 | 74.00 | 33.51  | 319  | 304 Peak | Vertical  |      |
| 3   | 2483.50 | 58.14  | 19.54        | 38.60 | 74.00 | -15.86 | 319  | 304 Peak | Vertical  |      |

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**High Channel (Horizontal) Average**



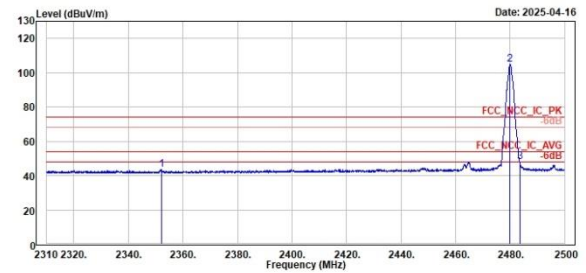
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|     | Freq    | Level  | Read  | Level | Factor | Limit | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|-------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB    | dB   | cm   | deg     |            |           |      |
| 1   | 2335.89 | 44.03  | 6.24  | 37.79 | 54.00  | -9.97 | 212  | 150  | Average | Horizontal |           |      |
| 2 * | 2480.00 | 109.19 | 70.59 | 38.60 | 54.00  | 55.19 | 212  | 150  | Average | Horizontal |           |      |
| 3 † | 2483.50 | 51.18  | 12.58 | 38.60 | 54.00  | -2.82 | 212  | 150  | Average | Horizontal |           |      |



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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg     |          |           |      |
| 1   | 2352.23 | 43.52  | 5.66  | 37.86 | 54.00  | -10.48 | 319  | 304  | Average | Vertical |           |      |
| 2 * | 2480.00 | 104.92 | 66.32 | 38.60 | 54.00  | 50.92  | 319  | 304  | Average | Vertical |           |      |
| 3   | 2483.50 | 47.70  | 9.10  | 38.60 | 54.00  | -6.30  | 319  | 304  | Average | Vertical |           |      |

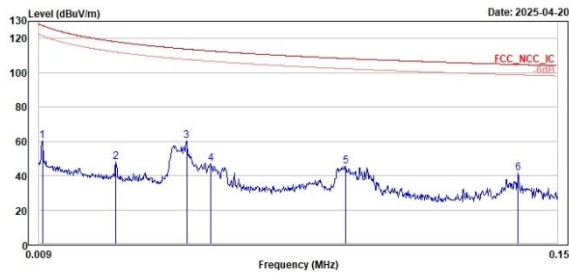
## Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

### IEEE® 802.15.4\_250k

#### Low Channel (Open) 9kHz~150kHz



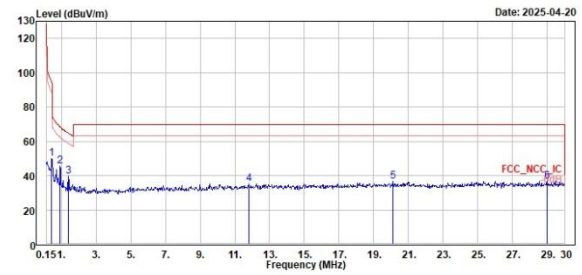
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|   | Freq | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg  |        |           |      |
| 1 | 0.01 | 60.24  | 42.13 | 18.11 | 127.60 | -67.36 | 100  |      | 73   | Peak   | Open      |      |
| 2 | 0.03 | 47.73  | 27.72 | 20.01 | 118.05 | -70.32 | 100  |      | 18   | Peak   | Open      |      |
| 3 | 0.05 | 60.16  | 41.14 | 19.02 | 113.76 | -53.60 | 100  |      | 284  | Peak   | Open      |      |
| 4 | 0.06 | 47.05  | 28.65 | 18.40 | 112.68 | -65.63 | 100  |      | 276  | Peak   | Open      |      |
| 5 | 0.09 | 45.60  | 27.58 | 18.02 | 108.29 | -62.69 | 100  |      | 239  | Peak   | Open      |      |
| 6 | 0.14 | 41.28  | 23.01 | 18.27 | 104.72 | -63.44 | 100  |      | 233  | Peak   | Open      |      |



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|   | Freq  | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|-------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg  |        |           |      |
| 1 | 0.45  | 49.78  | 31.08 | 18.70 | 94.57  | -44.79 | 100  |      | 180  | Peak   | Open      |      |
| 2 | 0.93  | 45.53  | 26.68 | 18.85 | 68.27  | -22.74 | 100  |      | 180  | Peak   | Open      |      |
| 3 | 1.40  | 39.58  | 20.77 | 18.81 | 64.66  | -25.08 | 100  |      | 288  | Peak   | Open      |      |
| 4 | 11.79 | 35.01  | 13.30 | 21.71 | 69.50  | -34.49 | 100  |      | 218  | Peak   | Open      |      |
| 5 | 20.09 | 36.58  | 13.74 | 22.84 | 69.50  | -32.92 | 100  |      | 205  | Peak   | Open      |      |
| 6 | 28.99 | 36.78  | 13.54 | 23.24 | 69.50  | -32.72 | 100  |      | 27   | Peak   | Open      |      |

## Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

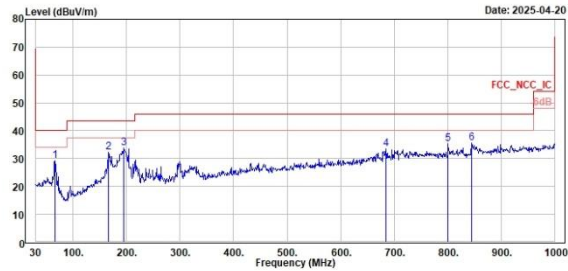
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#### Low Channel (Horizontal)

#### Low Channel (Vertical)



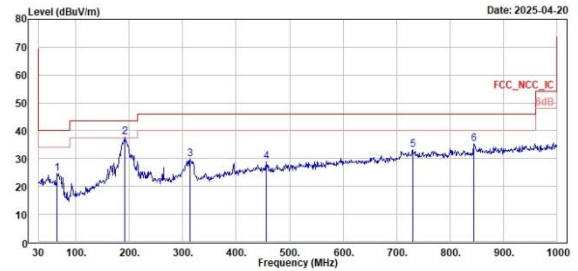
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|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |            |           |      |
| 1 | 65.89  | 29.35  | 36.92 | -7.57 | 40.00  | -10.65 | 272  | 0    | Peak | Horizontal |           |      |
| 2 | 166.77 | 32.34  | 38.17 | -5.83 | 43.50  | -11.16 | 200  | 202  | Peak | Horizontal |           |      |
| 3 | 194.90 | 33.77  | 41.88 | -8.11 | 43.50  | -9.73  | 200  | 126  | Peak | Horizontal |           |      |
| 4 | 684.75 | 33.48  | 31.51 | 1.97  | 46.00  | -12.52 | 100  | 223  | Peak | Horizontal |           |      |
| 5 | 801.15 | 35.20  | 31.52 | 3.68  | 46.00  | -10.80 | 100  | 80   | Peak | Horizontal |           |      |
| 6 | 844.80 | 35.56  | 31.49 | 4.07  | 46.00  | -10.44 | 200  | 105  | Peak | Horizontal |           |      |



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|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |          |           |      |
| 1 | 64.92  | 24.78  | 31.08 | -7.20 | 40.00  | -15.22 | 300  | 82   | Peak | Vertical |           |      |
| 2 | 191.99 | 37.63  | 45.66 | -8.03 | 43.50  | -5.87  | 100  | 297  | Peak | Vertical |           |      |
| 3 | 314.21 | 29.70  | 34.63 | -4.93 | 46.00  | -16.30 | 100  | 220  | Peak | Vertical |           |      |
| 4 | 455.83 | 28.91  | 30.93 | -2.02 | 46.00  | -17.09 | 100  | 144  | Peak | Vertical |           |      |
| 5 | 730.34 | 33.01  | 30.22 | 2.79  | 46.00  | -12.99 | 200  | 262  | Peak | Vertical |           |      |
| 6 | 844.80 | 35.33  | 31.26 | 4.07  | 46.00  | -10.67 | 200  | 360  | Peak | Vertical |           |      |

## Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

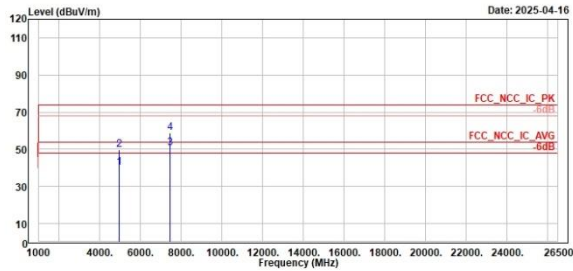
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#### High Channel (Horizontal)

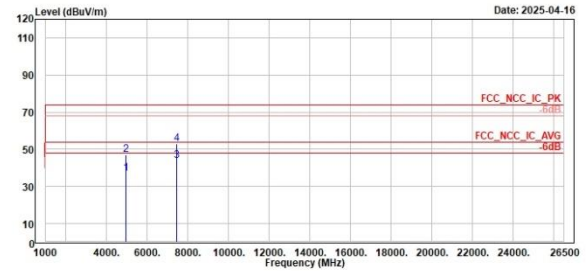
#### High Channel (Vertical)



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**ANT 15, Main Source, ECC, PIC32WM-BZ6204UC**  
**Band Edges, 2.31GHz ~ 2.5GHz**

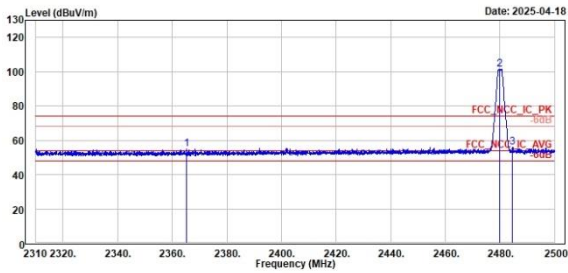
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**High Channel (Horizontal) Peak**

**High Channel (Vertical) Peak**



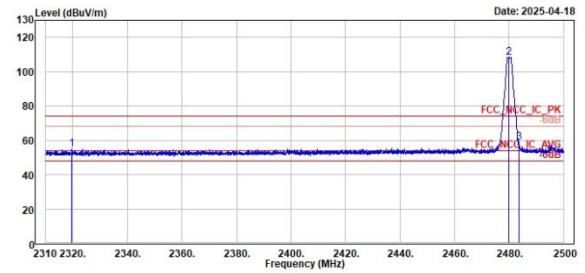
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|     | Freq    | Level  | Read  | Limit | Over   | APos   | TPos | Remark  | Pol/Phase  | Note |
|-----|---------|--------|-------|-------|--------|--------|------|---------|------------|------|
|     | MHz     | dBuV/m | Level | Line  | Limit  |        |      |         |            |      |
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg     |            |      |
| 1   | 2365.34 | 54.77  | 16.79 | 37.98 | 74.00  | -19.23 | 100  | 82 Peak | Horizontal |      |
| 2 * | 2480.00 | 101.36 | 62.76 | 38.60 | 74.00  | 27.36  | 100  | 82 Peak | Horizontal |      |
| 3   | 2484.66 | 55.76  | 17.16 | 38.60 | 74.00  | -18.24 | 100  | 82 Peak | Horizontal |      |



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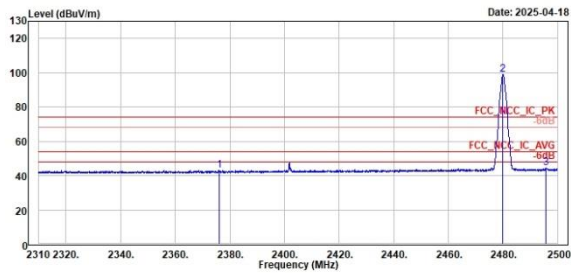
|     | Freq    | Level  | Read  | Limit | Over   | APos   | TPos | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|----------|-----------|------|
|     | MHz     | dBuV/m | Level | Line  | Limit  |        |      |          |           |      |
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg      |           |      |
| 1   | 2319.50 | 54.79  | 17.05 | 37.74 | 74.00  | -19.21 | 100  | 290 Peak | Vertical  |      |
| 2 * | 2480.00 | 100.50 | 69.90 | 38.60 | 74.00  | 34.50  | 100  | 290 Peak | Vertical  |      |
| 3   | 2483.57 | 58.77  | 20.17 | 38.60 | 74.00  | -15.23 | 100  | 290 Peak | Vertical  |      |

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**High Channel (Horizontal) Average**



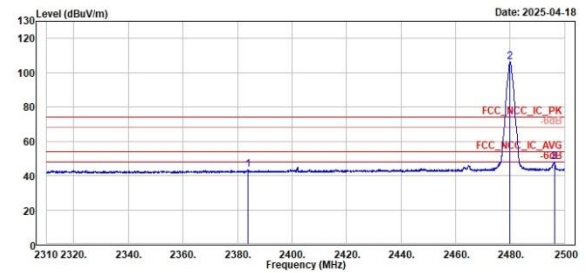
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**High Channel (Vertical) Average**



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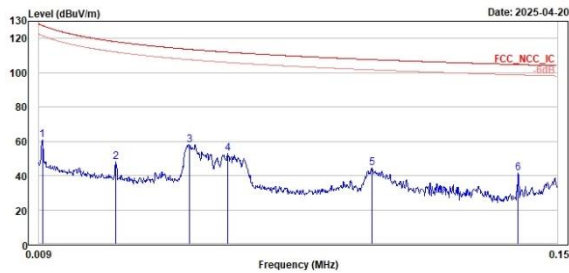
## Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

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#### Low Channel (Open) 9kHz~150kHz



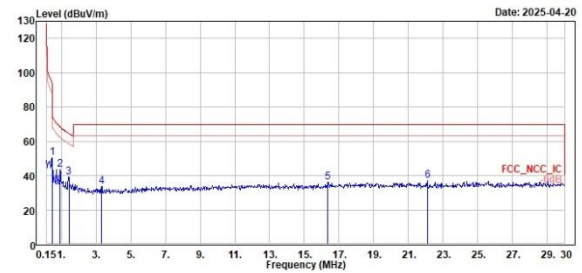
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| Freq | Level  | Read  | Level | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|------|--------|-------|-------|--------|--------|--------|------|------|--------|-----------|------|
| MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm     | cm   | deg  |        |           |      |
| 1    | 0.01   | 60.67 | 42.56 | 18.11  | 127.60 | -66.93 | 100  | 234  | Peak   | Open      |      |
| 2    | 0.03   | 48.14 | 28.13 | 20.01  | 118.05 | -69.91 | 100  | 234  | Peak   | Open      |      |
| 3    | 0.05   | 57.96 | 38.94 | 19.02  | 113.63 | -55.67 | 100  | 265  | Peak   | Open      |      |
| 4    | 0.06   | 52.86 | 34.92 | 17.94  | 111.98 | -59.12 | 100  | 269  | Peak   | Open      |      |
| 5    | 0.10   | 44.26 | 26.23 | 18.03  | 107.64 | -63.38 | 100  | 246  | Peak   | Open      |      |
| 6    | 0.14   | 41.49 | 23.22 | 18.27  | 104.72 | -63.23 | 100  | 237  | Peak   | Open      |      |



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| Freq | Level  | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase | Note |
|------|--------|-------|-------|--------|-------|--------|------|------|--------|-----------|------|
| MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |        |           |      |
| 1    | 0.48   | 50.27 | 31.53 | 18.74  | 94.01 | -43.74 | 100  | 177  | Peak   | Open      |      |
| 2    | 0.93   | 43.33 | 24.48 | 18.85  | 68.27 | -24.94 | 100  | 300  | Peak   | Open      |      |
| 3    | 1.43   | 39.25 | 20.44 | 18.81  | 64.48 | -25.23 | 100  | 177  | Peak   | Open      |      |
| 4    | 3.31   | 33.63 | 14.51 | 19.12  | 69.50 | -35.87 | 100  | 194  | Peak   | Open      |      |
| 5    | 16.36  | 35.91 | 13.86 | 22.05  | 69.50 | -33.59 | 100  | 327  | Peak   | Open      |      |
| 6    | 22.09  | 36.98 | 14.63 | 22.35  | 69.50 | -32.52 | 100  | 100  | Peak   | Open      |      |

## Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

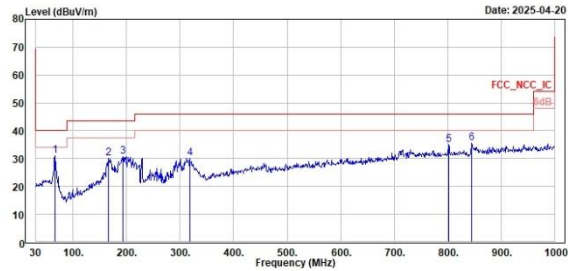
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### Low Channel (Horizontal)

### Low Channel (Vertical)



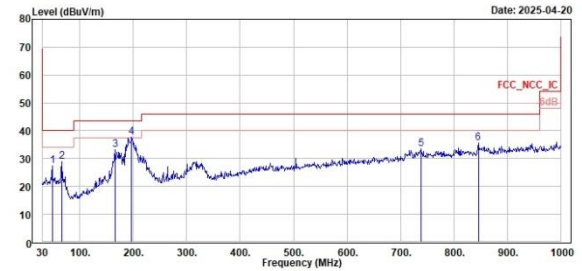
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|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |            |           |      |
| 1 | 65.89  | 31.05  | 38.62 | -7.57 | 40.00  | -8.95  | 300  | 345  | Peak | Horizontal |           |      |
| 2 | 166.77 | 30.23  | 36.06 | -5.83 | 43.50  | -13.27 | 300  | 204  | Peak | Horizontal |           |      |
| 3 | 192.96 | 30.85  | 38.88 | -8.03 | 43.50  | -12.65 | 102  | 360  | Peak | Horizontal |           |      |
| 4 | 318.09 | 30.22  | 34.99 | -4.77 | 46.00  | -15.78 | 100  | 111  | Peak | Horizontal |           |      |
| 5 | 802.12 | 34.96  | 31.26 | 3.70  | 46.00  | -11.04 | 100  | 279  | Peak | Horizontal |           |      |
| 6 | 844.00 | 35.51  | 31.44 | 4.07  | 46.00  | -10.49 | 106  | 360  | Peak | Horizontal |           |      |



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|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |          |           |      |
| 1 | 48.43  | 27.27  | 33.04 | -5.77 | 40.00  | -12.73 | 200  | 360  | Peak | Vertical |           |      |
| 2 | 66.86  | 28.98  | 36.76 | -7.78 | 40.00  | -11.02 | 300  | 69   | Peak | Vertical |           |      |
| 3 | 165.80 | 33.14  | 38.86 | -5.72 | 43.50  | -10.36 | 106  | 360  | Peak | Vertical |           |      |
| 4 | 196.84 | 37.78  | 45.97 | -8.19 | 43.50  | -5.72  | 100  | 225  | Peak | Vertical |           |      |
| 5 | 738.10 | 33.42  | 30.61 | 2.81  | 46.00  | -12.58 | 100  | 215  | Peak | Vertical |           |      |
| 6 | 845.77 | 35.68  | 31.59 | 4.09  | 46.00  | -10.32 | 300  | 84   | Peak | Vertical |           |      |

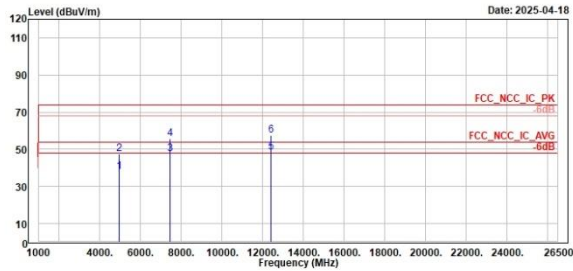
## Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

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#### High Channel (Horizontal)



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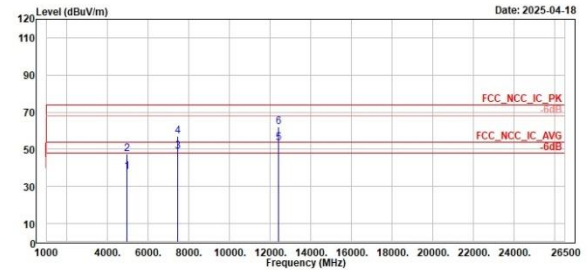


| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 4960.00  | 37.77 | 46.46 | -8.69  | 54.00 | -16.23 | 343  | 159  | Average | Horizontal |      |
| 2    | 4960.00  | 47.33 | 56.02 | -8.69  | 74.00 | -26.67 | 343  | 159  | Peak    | Horizontal |      |
| 3    | 7440.00  | 47.29 | 54.03 | -6.74  | 54.00 | -6.71  | 100  | 301  | Average | Horizontal |      |
| 4    | 7440.00  | 55.69 | 62.43 | -6.74  | 74.00 | -18.31 | 100  | 301  | Peak    | Horizontal |      |
| 5    | 12400.00 | 48.47 | 47.39 | 1.08   | 54.00 | -5.53  | 116  | 360  | Average | Horizontal |      |
| 6    | 12400.00 | 57.41 | 56.33 | 1.08   | 74.00 | -16.59 | 116  | 360  | Peak    | Horizontal |      |

#### High Channel (Vertical)



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| Freq | Level    | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|----------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m   | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 4960.00  | 37.94 | 46.63 | -8.69  | 54.00 | -16.06 | 100  | 218  | Average | Vertical  |      |
| 2    | 4960.00  | 47.44 | 56.13 | -8.69  | 74.00 | -26.56 | 100  | 218  | Peak    | Vertical  |      |
| 3    | 7440.00  | 48.65 | 55.39 | -6.74  | 54.00 | -5.35  | 101  | 7    | Average | Vertical  |      |
| 4    | 7440.00  | 56.85 | 63.59 | -6.74  | 74.00 | -17.15 | 101  | 7    | Peak    | Vertical  |      |
| 5    | 12400.00 | 53.27 | 52.19 | 1.08   | 54.00 | -0.73  | 104  | 285  | Average | Vertical  |      |
| 6    | 12400.00 | 62.20 | 61.12 | 1.08   | 74.00 | -11.88 | 104  | 285  | Peak    | Vertical  |      |