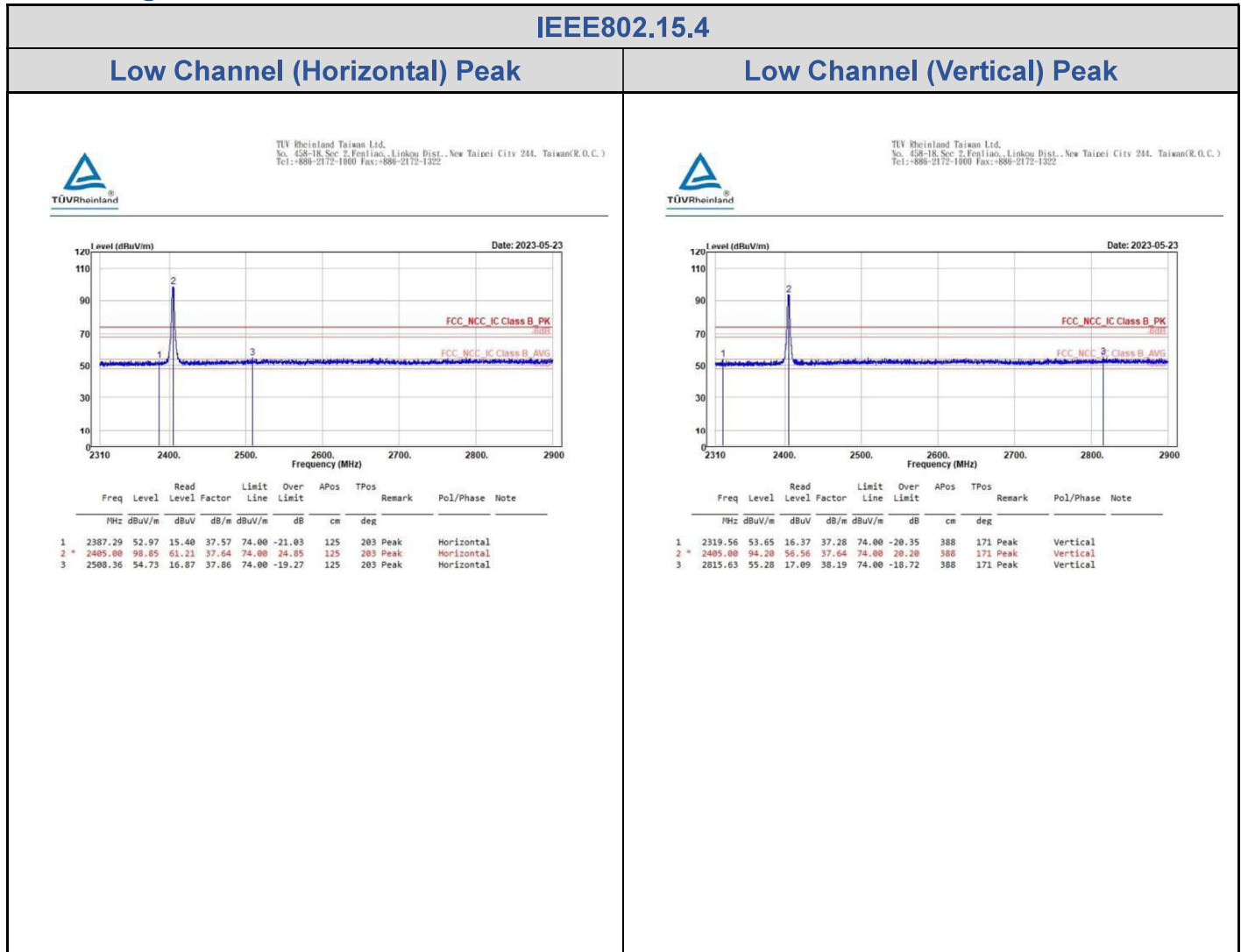


# Appendix B: Test Results of Radiated Spurious Emissions & Mains

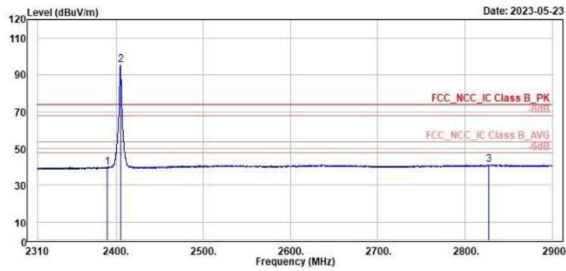
## Conducted Emission Test

### Band Edges, 2.31GHz ~ 2.9GHz



**IEEE802.15.4**
**Low Channel (Horizontal) Average**
**Low Channel (Vertical) Average**

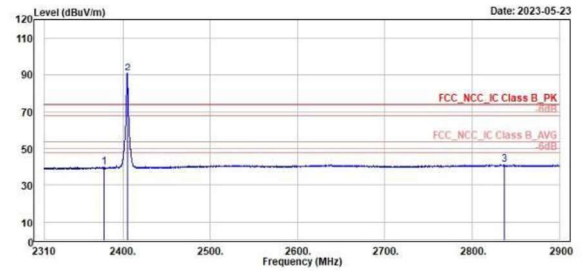

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| Freq | Level   | Read Level Factor | Limit Line | Over Limit | APos  | TPos   | Remark | Pol/Phase   | Note       |
|------|---------|-------------------|------------|------------|-------|--------|--------|-------------|------------|
| MHz  | dBuV/m  | dBuV              | dB/m       | dBuV/m     | dB    | cm     | deg    |             |            |
| 1    | 2389.77 | 49.14             | 2.56       | 37.58      | 54.00 | -13.86 | 125    | 203 Average | Horizontal |
| 2 *  | 2405.00 | 95.62             | 57.98      | 37.64      | 54.00 | 41.62  | 125    | 203 Average | Horizontal |
| 3    | 2827.19 | 41.52             | 3.33       | 38.19      | 54.00 | -12.48 | 125    | 203 Average | Horizontal |



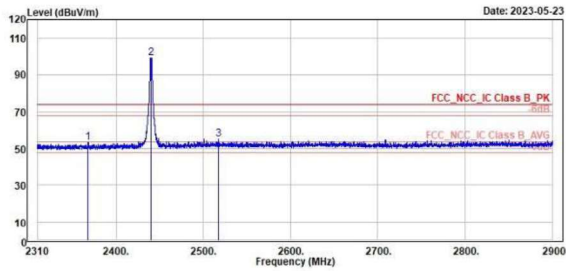
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| Freq | Level   | Read Level Factor | Limit Line | Over Limit | APos  | TPos   | Remark | Pol/Phase   | Note     |
|------|---------|-------------------|------------|------------|-------|--------|--------|-------------|----------|
| MHz  | dBuV/m  | dBuV              | dB/m       | dBuV/m     | dB    | cm     | deg    |             |          |
| 1    | 2378.68 | 49.11             | 2.59       | 37.52      | 54.00 | -13.89 | 388    | 171 Average | Vertical |
| 2 *  | 2405.00 | 98.99             | 53.35      | 37.64      | 54.00 | 36.99  | 388    | 171 Average | Vertical |
| 3    | 2836.16 | 41.50             | 3.32       | 38.18      | 54.00 | -12.50 | 388    | 171 Average | Vertical |

**IEEE802.15.4**
**Middle Channel (Horizontal) Peak**
**Middle Channel (Vertical) Peak**

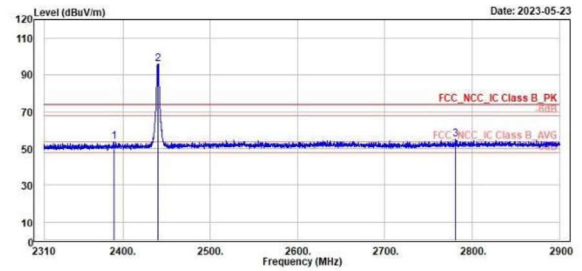

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| Freq | Level   | Read  | Limit | Over   | APos  | TPos   | Remark | Pol/Phase | Note       |
|------|---------|-------|-------|--------|-------|--------|--------|-----------|------------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg    |           |            |
| 1    | 2368.06 | 53.36 | 15.90 | 37.46  | 74.00 | -20.64 | 100    | 202 Peak  | HORIZONTAL |
| 2 *  | 2440.00 | 99.56 | 61.88 | 37.68  | 74.00 | 25.56  | 100    | 202 Peak  | HORIZONTAL |
| 3    | 2517.33 | 55.41 | 17.54 | 37.87  | 74.00 | -18.59 | 100    | 202 Peak  | HORIZONTAL |



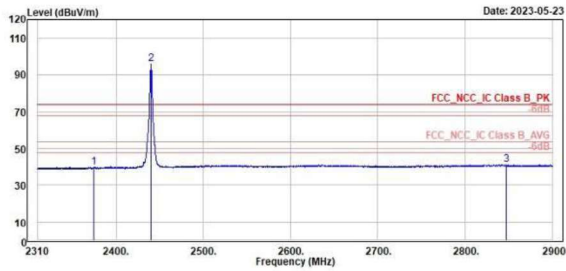
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| Freq | Level   | Read  | Limit | Over   | APos  | TPos   | Remark | Pol/Phase | Note     |
|------|---------|-------|-------|--------|-------|--------|--------|-----------|----------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg    |           |          |
| 1    | 2309.65 | 53.00 | 16.22 | 37.58  | 74.00 | -20.20 | 372    | 177 Peak  | Vertical |
| 2 *  | 2440.00 | 96.23 | 58.55 | 37.68  | 74.00 | 22.23  | 372    | 177 Peak  | Vertical |
| 3    | 2780.47 | 55.12 | 16.94 | 38.18  | 74.00 | -18.68 | 372    | 177 Peak  | Vertical |

**IEEE802.15.4**
**Middle Channel (Horizontal) Average**
**Middle Channel (Vertical) Average**

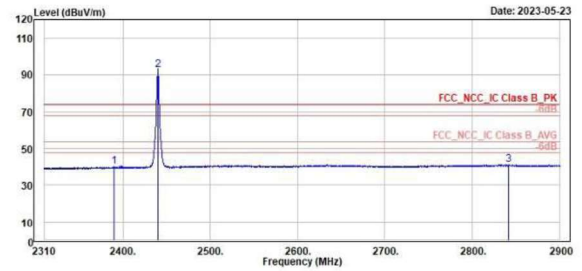

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| Freq | Level   | Read  | Limit | Over   | APos  | TPos   | Remark | Pol/Phase   | Note       |
|------|---------|-------|-------|--------|-------|--------|--------|-------------|------------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg    |             |            |
| 1    | 2374.78 | 49.28 | 2.78  | 37.50  | 54.00 | -13.72 | 100    | 202 Average | HORIZONTAL |
| 2 *  | 2440.00 | 96.28 | 56.69 | 37.68  | 54.00 | 42.28  | 100    | 202 Average | HORIZONTAL |
| 3    | 2847.49 | 41.49 | 3.32  | 38.17  | 54.00 | -12.51 | 100    | 202 Average | HORIZONTAL |



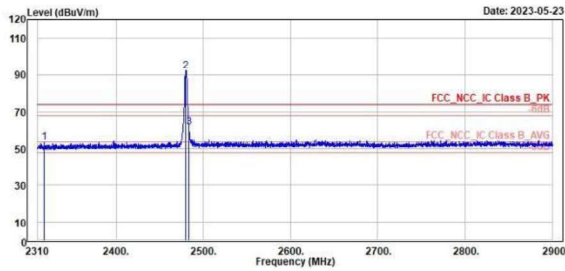
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| Freq | Level   | Read  | Limit | Over   | APos  | TPos   | Remark | Pol/Phase   | Note     |
|------|---------|-------|-------|--------|-------|--------|--------|-------------|----------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg    |             |          |
| 1    | 2309.41 | 49.74 | 3.16  | 37.58  | 54.00 | -13.26 | 372    | 177 Average | Vertical |
| 2 *  | 2440.00 | 92.94 | 55.26 | 37.68  | 54.00 | 38.94  | 372    | 177 Average | Vertical |
| 3    | 2841.59 | 41.62 | 3.45  | 38.17  | 54.00 | -12.38 | 372    | 177 Average | Vertical |

**IEEE802.15.4**
**High Channel (Horizontal) Peak**
**High Channel (Vertical) Peak**

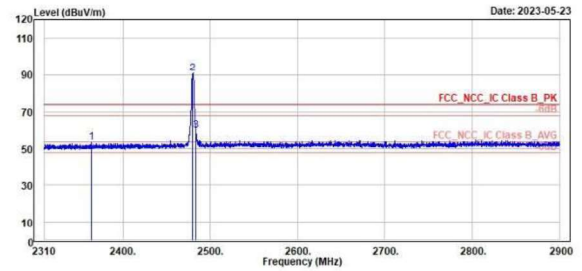

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| Peak | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|------------|--------|------------|------------|------|------|--------|------------|------|
|      | MHz     | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |        |            |      |
| 1    | 2317.20 | 53.30  | 16.04      | 37.26  | 74.00      | -20.70     | 122  | 190  | Peak   | Horizontal |      |
| 2 *  | 2480.00 | 92.11  | 54.32      | 37.79  | 74.00      | 18.11      | 122  | 190  | Peak   | Horizontal |      |
| 3    | 2483.46 | 61.46  | 23.66      | 37.80  | 74.00      | -12.54     | 122  | 190  | Peak   | Horizontal |      |



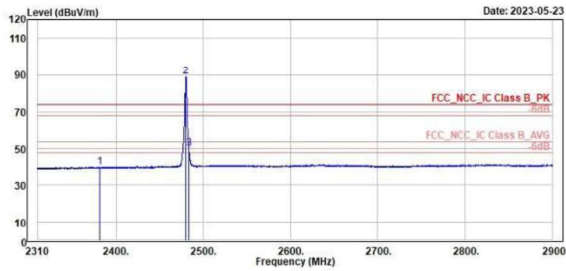
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| Peak | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark | Pol/Phase | Note |
|------|---------|--------|------------|--------|------------|------------|------|------|--------|-----------|------|
|      | MHz     | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |        |           |      |
| 1    | 2364.16 | 53.60  | 16.15      | 37.45  | 74.00      | -20.40     | 100  | 160  | Peak   | Vertical  |      |
| 2 *  | 2480.00 | 98.62  | 52.83      | 37.79  | 74.00      | 18.62      | 100  | 160  | Peak   | Vertical  |      |
| 3    | 2483.46 | 59.83  | 22.03      | 37.80  | 74.00      | -14.17     | 100  | 160  | Peak   | Vertical  |      |

**IEEE802.15.4**
**High Channel (Horizontal) Average**
**High Channel (Vertical) Average**

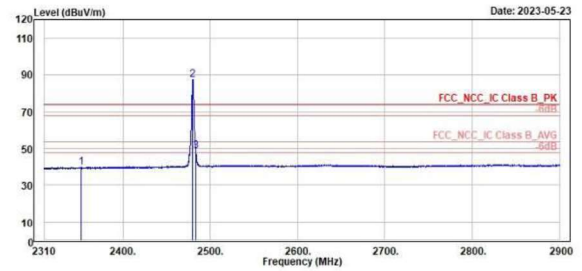

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| Freq | Level   | Read Level Factor | Limit Line | Over Limit | APos  | TPos   | Remark | Pol/Phase   | Note       |
|------|---------|-------------------|------------|------------|-------|--------|--------|-------------|------------|
| MHz  | dBuV/m  | dBuV              | dB/m       | dBuV/m     | dB    | cm     | deg    |             |            |
| 1    | 2388.08 | 48.19             | 2.65       | 37.53      | 54.00 | -13.81 | 122    | 190 Average | Horizontal |
| 2 *  | 2488.00 | 88.83             | 51.04      | 37.79      | 54.00 | 34.83  | 122    | 190 Average | Horizontal |
| 3 †  | 2483.46 | 50.28             | 12.40      | 37.88      | 54.00 | -3.88  | 122    | 190 Average | Horizontal |



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| Freq | Level   | Read Level Factor | Limit Line | Over Limit | APos  | TPos   | Remark | Pol/Phase   | Note     |
|------|---------|-------------------|------------|------------|-------|--------|--------|-------------|----------|
| MHz  | dBuV/m  | dBuV              | dB/m       | dBuV/m     | dB    | cm     | deg    |             |          |
| 1    | 2352.13 | 48.28             | 2.81       | 37.39      | 54.00 | -13.80 | 100    | 160 Average | Vertical |
| 2 *  | 2488.00 | 87.37             | 49.58      | 37.79      | 54.00 | 33.37  | 100    | 160 Average | Vertical |
| 3 †  | 2483.46 | 48.88             | 11.00      | 37.88      | 54.00 | -5.20  | 100    | 160 Average | Vertical |

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

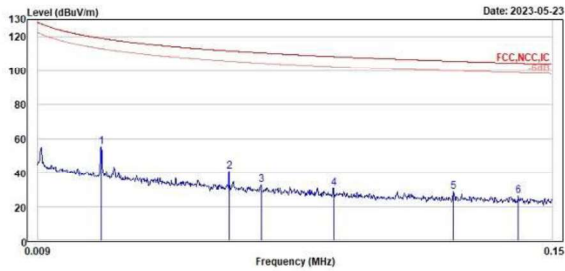
IEEE802.15.4

Middle Channel (Open) 9kHz~150kHz

Middle Channel (Open) 150kHz~30MHz



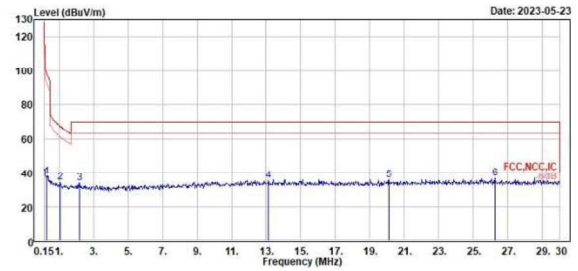
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| Peak | Freq (MHz) | Level (dBuV/m) | Read Level (dBuV) | Level Factor (dB/m) | Limit Line (dBuV/m) | Over Limit (dB) | APos (cm) | TPos (deg) | Remark | Pol/Phase | Note |
|------|------------|----------------|-------------------|---------------------|---------------------|-----------------|-----------|------------|--------|-----------|------|
| 1    | 0.03       | 55.37          | 36.42             | 18.95               | 119.33              | -63.76          | 100       | 323        | Peak   | Open      |      |
| 2    | 0.06       | 40.82          | 21.97             | 18.85               | 111.82              | -71.00          | 100       | 360        | Peak   | Open      |      |
| 3    | 0.07       | 32.78          | 14.14             | 18.64               | 110.67              | -77.89          | 100       | 328        | Peak   | Open      |      |
| 4    | 0.09       | 30.64          | 12.48             | 18.16               | 108.50              | -77.86          | 100       | 156        | Peak   | Open      |      |
| 5    | 0.12       | 28.53          | 10.51             | 18.02               | 105.00              | -77.27          | 100       | 361        | Peak   | Open      |      |
| 6    | 0.14       | 26.00          | 7.91              | 18.09               | 104.63              | -78.63          | 100       | 360        | Peak   | Open      |      |

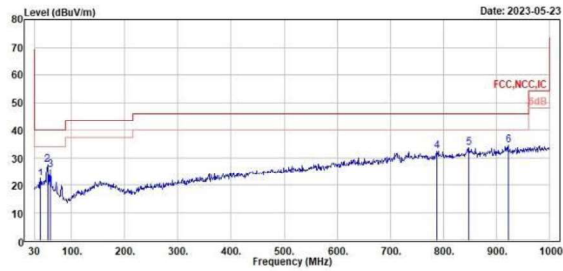


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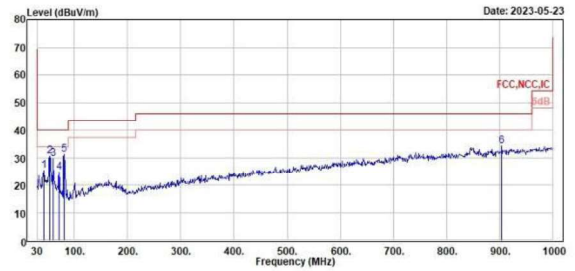


| Peak | Freq (MHz) | Level (dBuV/m) | Read Level (dBuV) | Level Factor (dB/m) | Limit Line (dBuV/m) | Over Limit (dB) | APos (cm) | TPos (deg) | Remark | Pol/Phase | Note |
|------|------------|----------------|-------------------|---------------------|---------------------|-----------------|-----------|------------|--------|-----------|------|
| 1    | 0.27       | 37.36          | 18.74             | 18.62               | 98.99               | -61.63          | 100       | 61         | Peak   | Open      |      |
| 2    | 1.08       | 34.32          | 15.23             | 19.09               | 66.97               | -32.65          | 100       | 303        | Peak   | Open      |      |
| 3    | 2.21       | 33.71          | 14.30             | 19.41               | 69.50               | -35.79          | 100       | 105        | Peak   | Open      |      |
| 4    | 13.13      | 34.09          | 13.11             | 21.78               | 69.50               | -34.61          | 100       | 278        | Peak   | Open      |      |
| 5    | 20.09      | 35.66          | 13.42             | 22.24               | 69.50               | -33.84          | 100       | 72         | Peak   | Open      |      |
| 6    | 26.24      | 36.77          | 14.47             | 22.30               | 69.50               | -32.73          | 100       | 105        | Peak   | Open      |      |

**Spurious Emissions, Tx Mode, 30MHz ~ 1GHz**
**IEEE802.15.4**
**Middle Channel (Horizontal)**
**Middle Channel (Vertical)**

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| Peak | Freq (MHz) | Level (dBuV/m) | Read Level (dBuV/m) | Level Factor (dB) | Limit Line (dBuV/m) | Over Limit (dB) | APos (cm) | TPos (deg) | Remark | Pol/Phase  | Note |
|------|------------|----------------|---------------------|-------------------|---------------------|-----------------|-----------|------------|--------|------------|------|
| 1    | 49.67      | 22.65          | 30.55               | -7.91             | 40.00               | -17.35          | 300       | 83         | Peak   | Horizontal |      |
| 2    | 54.25      | 27.68          | 34.67               | -6.99             | 40.00               | -12.32          | 100       | 190        | Peak   | Horizontal |      |
| 3    | 68.07      | 25.83          | 33.51               | -7.68             | 40.00               | -14.17          | 100       | 360        | Peak   | Horizontal |      |
| 4    | 787.57     | 32.54          | 29.59               | 2.95              | 46.00               | -13.46          | 200       | 316        | Peak   | Horizontal |      |
| 5    | 848.68     | 33.71          | 30.05               | 3.66              | 46.00               | -12.29          | 400       | 315        | Peak   | Horizontal |      |
| 6    | 922.40     | 34.76          | 29.90               | 4.86              | 46.00               | -11.24          | 300       | 256        | Peak   | Horizontal |      |

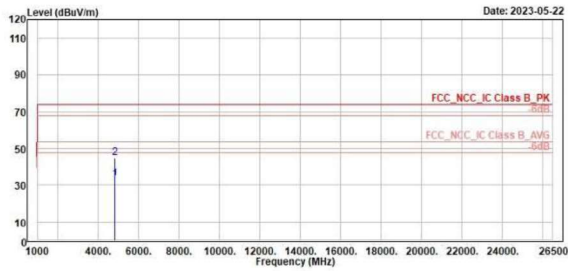

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| Peak | Freq (MHz) | Level (dBuV/m) | Read Level (dBuV/m) | Level Factor (dB) | Limit Line (dBuV/m) | Over Limit (dB) | APos (cm) | TPos (deg) | Remark | Pol/Phase | Note |
|------|------------|----------------|---------------------|-------------------|---------------------|-----------------|-----------|------------|--------|-----------|------|
| 1    | 41.64      | 25.57          | 33.34               | -7.77             | 40.00               | -14.43          | 100       | 193        | Peak   | Vertical  |      |
| 2    | 53.28      | 38.78          | 37.69               | -6.91             | 40.00               | -9.22           | 267       | 233        | Peak   | Vertical  |      |
| 3    | 68.07      | 29.76          | 37.44               | -7.68             | 40.00               | -10.24          | 200       | 12         | Peak   | Vertical  |      |
| 4    | 787.74     | 24.94          | 35.07               | -10.13            | 40.00               | -15.06          | 100       | 307        | Peak   | Vertical  |      |
| 5    | 88.44      | 31.20          | 43.43               | -12.23            | 40.00               | -8.80           | 200       | 318        | Peak   | Vertical  |      |
| 6    | 903.97     | 34.28          | 29.94               | 4.34              | 46.00               | -11.72          | 300       | 124        | Peak   | Vertical  |      |



**Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz**
**IEEE802.15.4**
**Low Channel (Horizontal)**
**Low Channel (Vertical)**

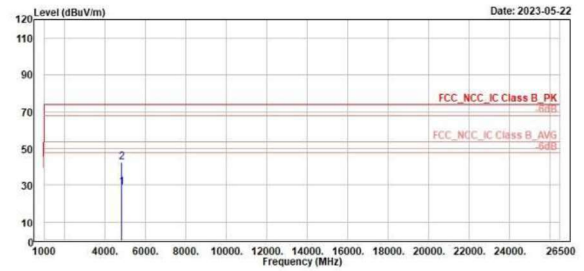

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| Freq | Level   | Read Level | Factor | Limit Line | Over Limit | APos   | TPos | Remark    | Pol/Phase  | Note |
|------|---------|------------|--------|------------|------------|--------|------|-----------|------------|------|
| MHz  | dBuV/m  | dBuV       | dB/m   | dBuV/m     | dB         | cm     | deg  |           |            |      |
| 1    | 4810.00 | 33.68      | 44.05  | -10.38     | 54.00      | -20.32 | 251  | 1 Average | Horizontal |      |
| 2    | 4810.00 | 44.95      | 55.33  | -10.38     | 74.00      | -29.05 | 251  | 1 Peak    | Horizontal |      |



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| Freq | Level   | Read Level | Factor | Limit Line | Over Limit | APos   | TPos | Remark      | Pol/Phase | Note |
|------|---------|------------|--------|------------|------------|--------|------|-------------|-----------|------|
| MHz  | dBuV/m  | dBuV       | dB/m   | dBuV/m     | dB         | cm     | deg  |             |           |      |
| 1    | 4810.00 | 28.96      | 39.34  | -10.38     | 54.00      | -25.04 | 336  | 360 Average | Vertical  |      |
| 2    | 4810.00 | 42.76      | 53.14  | -10.38     | 74.00      | -31.24 | 336  | 360 Peak    | Vertical  |      |

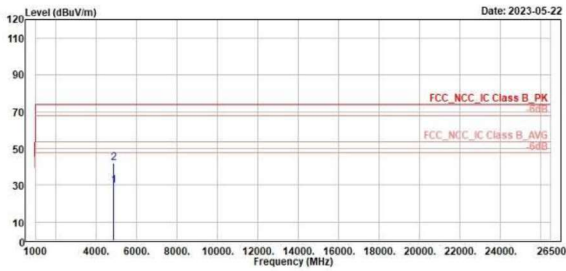
IEEE802.15.4

Middle Channel (Horizontal)

Middle Channel (Vertical)



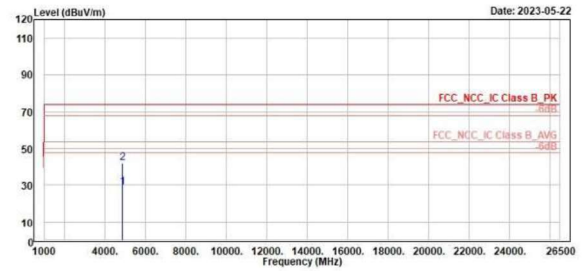
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| Freq | Level   | Read Level | Level Factor | Limit Line | Over Limit | APos   | TPos | Remark      | Pol/Phase  | Note |
|------|---------|------------|--------------|------------|------------|--------|------|-------------|------------|------|
| MHz  | dBuV/m  | dBuV       | dB/m         | dBuV/m     | dB         | cm     | deg  |             |            |      |
| 1    | 4880.00 | 29.75      | 40.00        | -10.33     | 54.00      | -24.25 | 100  | 168 Average | Horizontal |      |
| 2    | 4880.00 | 42.24      | 52.57        | -10.33     | 74.00      | -31.76 | 100  | 168 Peak    | Horizontal |      |



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| Freq | Level   | Read Level | Level Factor | Limit Line | Over Limit | APos   | TPos | Remark      | Pol/Phase | Note |
|------|---------|------------|--------------|------------|------------|--------|------|-------------|-----------|------|
| MHz  | dBuV/m  | dBuV       | dB/m         | dBuV/m     | dB         | cm     | deg  |             |           |      |
| 1    | 4880.00 | 28.83      | 39.16        | -10.33     | 54.00      | -25.17 | 400  | 156 Average | Vertical  |      |
| 2    | 4880.00 | 42.30      | 52.63        | -10.33     | 74.00      | -31.70 | 400  | 156 Peak    | Vertical  |      |

IEEE802.15.4

High Channel (Horizontal)

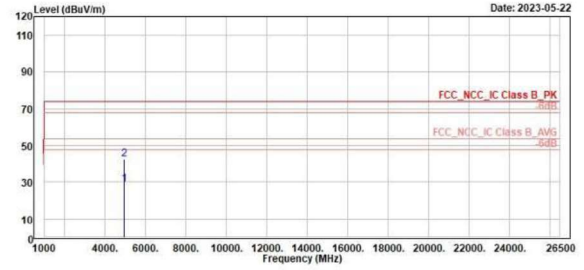
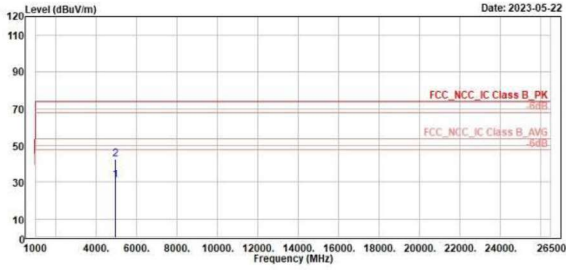
High Channel (Vertical)



TUV Rheinland Taiwan Ltd.  
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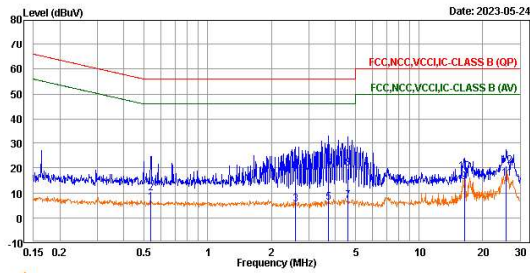
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| Freq | Level   | Read Level Factor | Limit Line | Over Limit | APos  | TPos   | Remark | Pol/Phase   | Note       |
|------|---------|-------------------|------------|------------|-------|--------|--------|-------------|------------|
| MHz  | dBuV/m  | dBuV              | dB/m       | dBuV/m     | dB    | cm     | deg    |             |            |
| 1    | 4968.00 | 30.86             | 41.00      | -10.22     | 54.00 | -23.14 | 100    | 165 Average | Horizontal |
| 2    | 4968.00 | 42.97             | 53.19      | -10.22     | 74.00 | -31.03 | 100    | 165 Peak    | Horizontal |

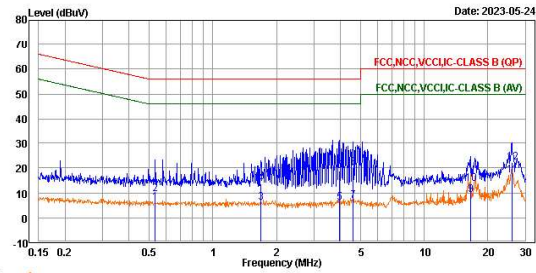
| Freq | Level   | Read Level Factor | Limit Line | Over Limit | APos  | TPos   | Remark | Pol/Phase   | Note     |
|------|---------|-------------------|------------|------------|-------|--------|--------|-------------|----------|
| MHz  | dBuV/m  | dBuV              | dB/m       | dBuV/m     | dB    | cm     | deg    |             |          |
| 1    | 4968.00 | 28.73             | 38.95      | -10.22     | 54.00 | -25.27 | 100    | 178 Average | Vertical |
| 2    | 4968.00 | 42.80             | 53.02      | -10.22     | 74.00 | -31.20 | 100    | 178 Peak    | Vertical |

**Mains Conducted Emission, 150kHz ~ 30MHz**
**Worst Band**
**(Line)**
**(Neutral)**

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Trace: 1

|    | Freq  | Level | Read Level | Factor | Limit Line | Over Limit | Remark  | Pol/Phase | Note |
|----|-------|-------|------------|--------|------------|------------|---------|-----------|------|
|    | MHz   | dBuV  | dBuV       | dB     | dBuV       | dB         |         |           |      |
| 1  | 0.54  | 5.92  | -3.71      | 9.63   | 46.00      | -40.08     | Average | line1     |      |
| 2  | 0.54  | 10.01 | 0.38       | 9.63   | 56.00      | -45.99     | QP      | line1     |      |
| 3  | 2.60  | 5.53  | -4.13      | 9.66   | 46.00      | -40.47     | Average | line1     |      |
| 4  | 2.60  | 18.46 | 8.80       | 9.66   | 56.00      | -37.54     | QP      | line1     |      |
| 5  | 3.74  | 6.02  | -3.66      | 9.68   | 46.00      | -39.98     | Average | line1     |      |
| 6  | 3.74  | 19.67 | 9.99       | 9.68   | 56.00      | -36.33     | QP      | line1     |      |
| 7  | 4.60  | 6.61  | -3.09      | 9.70   | 46.00      | -39.39     | Average | line1     |      |
| 8  | 4.60  | 19.78 | 10.08      | 9.70   | 56.00      | -36.22     | QP      | line1     |      |
| 9  | 16.33 | 14.15 | 4.38       | 9.77   | 50.00      | -35.85     | Average | line1     |      |
| 10 | 16.33 | 18.56 | 8.79       | 9.77   | 60.00      | -41.44     | QP      | line1     |      |
| 11 | 25.83 | 15.57 | 5.83       | 9.74   | 50.00      | -34.43     | Average | line1     |      |
| 12 | 25.83 | 20.96 | 11.22      | 9.74   | 60.00      | -39.04     | QP      | line1     |      |


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Trace: 1

|    | Freq  | Level | Read Level | Factor | Limit Line | Over Limit | Remark  | Pol/Phase | Note |
|----|-------|-------|------------|--------|------------|------------|---------|-----------|------|
|    | MHz   | dBuV  | dBuV       | dB     | dBuV       | dB         |         |           |      |
| 1  | 0.53  | 5.92  | -3.71      | 9.63   | 46.00      | -40.08     | Average | neutral   |      |
| 2  | 0.53  | 9.57  | -0.06      | 9.63   | 56.00      | -46.43     | QP      | neutral   |      |
| 3  | 1.69  | 6.05  | -3.61      | 9.66   | 46.00      | -39.95     | Average | neutral   |      |
| 4  | 1.69  | 13.53 | 3.87       | 9.66   | 56.00      | -42.47     | QP      | neutral   |      |
| 5  | 3.97  | 6.25  | -3.44      | 9.69   | 46.00      | -39.75     | Average | neutral   |      |
| 6  | 3.97  | 18.64 | 8.95       | 9.69   | 56.00      | -37.36     | QP      | neutral   |      |
| 7  | 4.60  | 6.67  | -3.04      | 9.71   | 46.00      | -39.33     | Average | neutral   |      |
| 8  | 4.60  | 20.04 | 10.33      | 9.71   | 56.00      | -35.96     | QP      | neutral   |      |
| 9  | 16.50 | 9.10  | -0.74      | 9.84   | 50.00      | -40.90     | Average | neutral   |      |
| 10 | 16.50 | 13.77 | 3.93       | 9.84   | 60.00      | -46.23     | QP      | neutral   |      |
| 11 | 25.96 | 16.89 | 7.02       | 9.87   | 50.00      | -33.11     | Average | neutral   |      |
| 12 | 25.96 | 22.15 | 12.28      | 9.87   | 60.00      | -37.85     | QP      | neutral   |      |