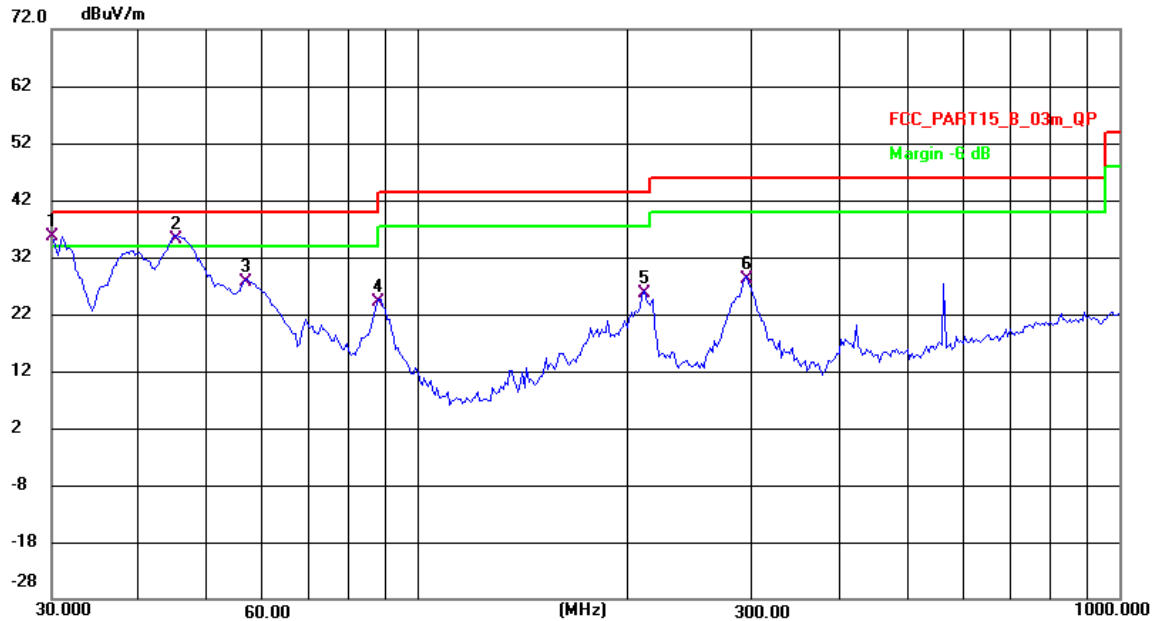


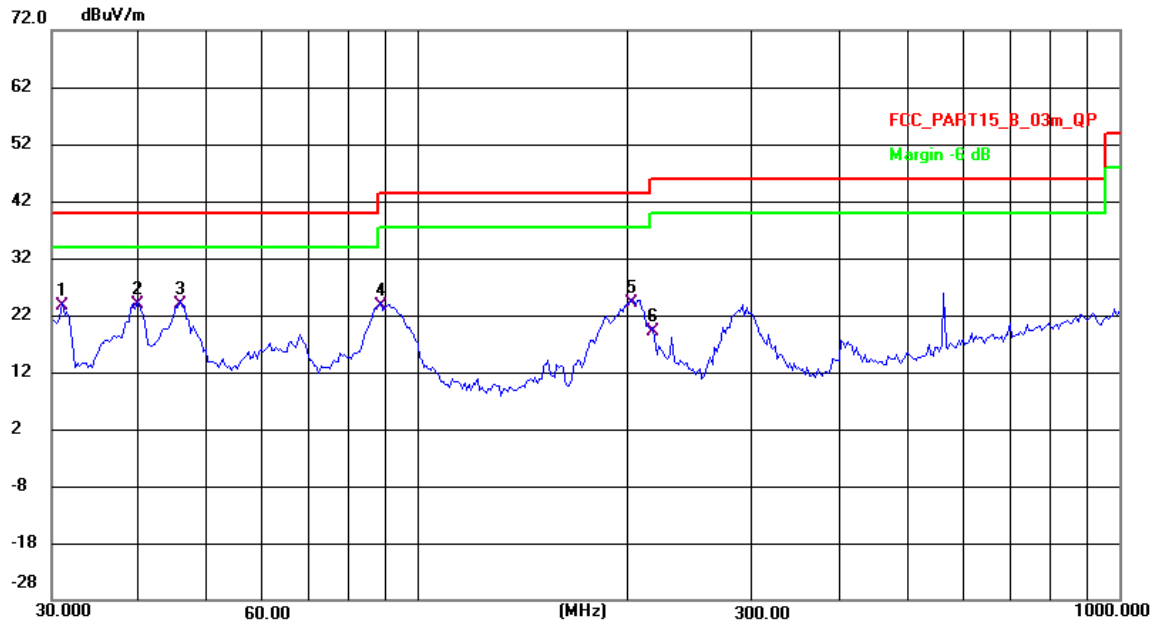
From 30MHz to 1000MHz: Conclusion: PASS

Vertical:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 30.0000         | 58.94          | -23.40        | 35.54          | 40.00          | -4.46       | QP       | 200         | 320            | P   |        |
| 2 ! | 45.0951         | 57.45          | -22.22        | 35.23          | 40.00          | -4.77       | QP       | 100         | 313            | P   |        |
| 3   | 56.8644         | 49.97          | -22.45        | 27.52          | 40.00          | -12.48      | QP       | 200         | 89             | P   |        |
| 4   | 87.9136         | 49.88          | -25.76        | 24.12          | 40.00          | -15.88      | QP       | 200         | 23             | P   |        |
| 5   | 210.1294        | 50.67          | -25.11        | 25.56          | 43.50          | -17.94      | QP       | 100         | 234            | P   |        |
| 6   | 294.4260        | 50.59          | -22.37        | 28.22          | 46.00          | -17.78      | QP       | 100         | 7              | P   |        |

### Horizontal:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 31.0728         | 46.91          | -23.30        | 23.61          | 40.00          | -16.39      | QP       | 200         | 11             | P   |        |
| 2 * | 39.7370         | 46.08          | -22.11        | 23.97          | 40.00          | -16.03      | QP       | 100         | 74             | P   |        |
| 3   | 45.7333         | 46.01          | -22.20        | 23.81          | 40.00          | -16.19      | QP       | 100         | 348            | P   |        |
| 4   | 88.5335         | 49.40          | -25.76        | 23.64          | 43.50          | -19.86      | QP       | 200         | 165            | P   |        |
| 5   | 201.4538        | 48.95          | -24.74        | 24.21          | 43.50          | -19.29      | QP       | 200         | 259            | P   |        |
| 6   | 216.1196        | 44.42          | -25.17        | 19.25          | 46.00          | -26.75      | QP       | 200         | 287            | P   |        |

Remark: All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.

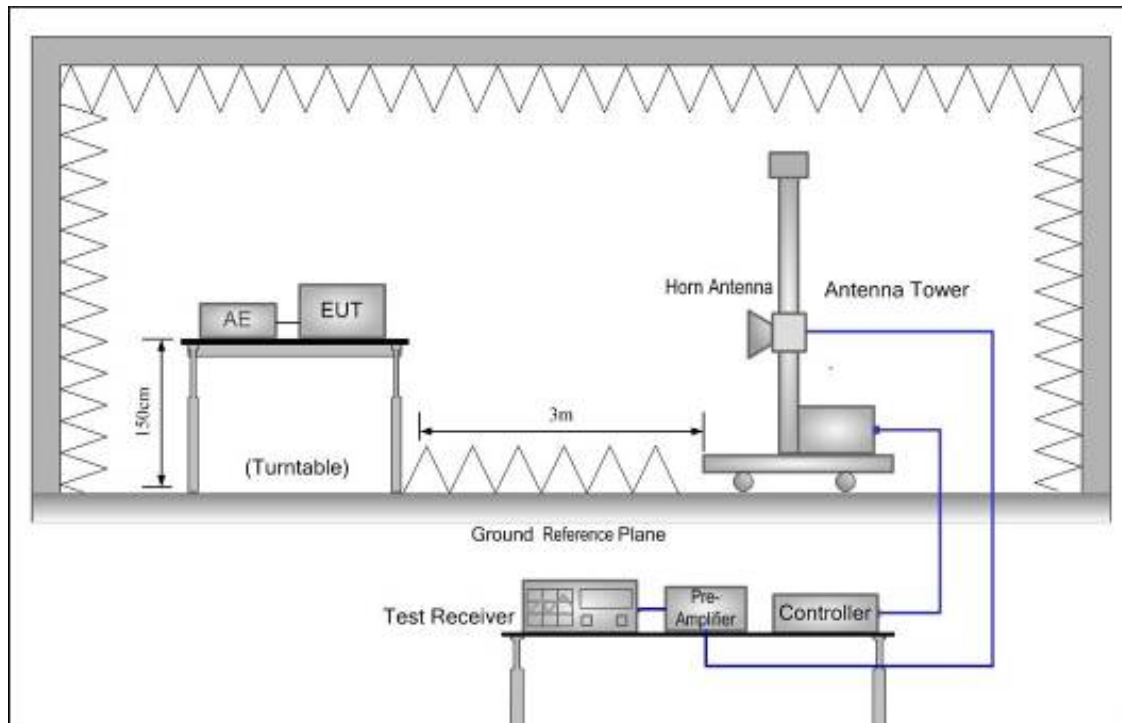
From 1G-25GHz

All modes had been tested, only show the worst mode GFSK

| Test Mode: GFSK TX Low                                                                            |                     |             |                       |                |                 |                 |                |             |        |
|---------------------------------------------------------------------------------------------------|---------------------|-------------|-----------------------|----------------|-----------------|-----------------|----------------|-------------|--------|
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Polar (H/V) | Antenna Factor (dB/m) | Cable loss(dB) | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
| 4804                                                                                              | 55.63               | V           | 33.93                 | 10.18          | 34.26           | 65.48           | 74             | -8.52       | 55.63  |
| 4804                                                                                              | 36.39               | V           | 33.93                 | 10.18          | 34.26           | 46.24           | 54             | -7.76       | 36.39  |
| 7206                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 9608                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 4804                                                                                              | 55.61               | H           | 33.93                 | 10.18          | 34.26           | 65.46           | 74             | -8.54       | PK     |
| 4804                                                                                              | 36.95               | H           | 33.93                 | 10.18          | 34.26           | 46.80           | 54             | -7.20       | AV     |
| 7206                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 9608                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| Test Mode: GFSK TX Mid                                                                            |                     |             |                       |                |                 |                 |                |             |        |
| 4882                                                                                              | 55.64               | V           | 33.95                 | 10.2           | 34.97           | 64.82           | 74             | -9.18       | PK     |
| 4882                                                                                              | 37.25               | V           | 33.95                 | 10.2           | 34.97           | 46.43           | 54             | -7.57       | AV     |
| 7323                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 9764                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 4882                                                                                              | 54.61               | H           | 33.95                 | 10.2           | 34.97           | 63.79           | 74             | -10.21      | PK     |
| 4882                                                                                              | 38.94               | H           | 33.95                 | 10.2           | 34.97           | 48.12           | 54             | -5.88       | AV     |
| 7323                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 9764                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| Test Mode: GFSK TX High                                                                           |                     |             |                       |                |                 |                 |                |             |        |
| 4960                                                                                              | 54.61               | V           | 33.98                 | 10.22          | 34.25           | 64.56           | 74             | -9.44       | PK     |
| 4960                                                                                              | 36.94               | V           | 33.98                 | 10.22          | 34.25           | 46.89           | 54             | -7.11       | AV     |
| 7440                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 9920                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 4960                                                                                              | 54.32               | H           | 33.98                 | 10.22          | 34.25           | 64.27           | 74             | -9.73       | PK     |
| 4960                                                                                              | 36.69               | H           | 33.98                 | 10.22          | 34.25           | 46.64           | 54             | -7.36       | AV     |
| 7440                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| 9920                                                                                              | /                   | /           | /                     | /              | /               | /               | /              | /           | /      |
| Note:                                                                                             |                     |             |                       |                |                 |                 |                |             |        |
| 1, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |             |                       |                |                 |                 |                |             |        |
| 2, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |             |                       |                |                 |                 |                |             |        |

## 9. BAND EDGE COMPLIANCE

### 9.1. Block Diagram of Test Setup



### 9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

### 9.3. Test Procedure

All restriction band and non- restriction band have been tested , only worse case is reported.

### 9.4. Test Result

PASS. (See below detailed test data)

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS            |                |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2310MHz~2410MHz |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | GFSK TX 2402MHz |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | 74.36            | -21.47         | 52.89           | 74.00          | -21.11 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | --               | -21.47         | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | 74.32            | -26.12         | 48.2            | 74.00          | -25.80 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | --               | -26.12         | --              | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | 74.93            | -21.47         | 53.46           | 74.00          | -20.54 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | --               | -21.47         | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | 74.62            | -26.12         | 48.5            | 74.00          | -25.50 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | --               | -26.12         | --              | 54.00          | --     | Avg    |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS            |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2450MHz~2550MHz |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | GFSK TX 2480MHz |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | 76.69            | -25.29         | 51.40           | 74.00          | -22.60 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | --               | -25.29         | --              | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | 76.28            | -25.29         | 50.99           | 74.00          | -23.01 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | --               | -25.29         | --              | 54.00          | --     | Avg    |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit.<br>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |          |                  |                |                 |                |        |        |

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS                     |                |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|--------------------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2310MHz~2410MHz          |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | $\pi/4$ DQPSK TX 2402MHz |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)          | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | 74.91            | -21.47         | 53.44                    | 74.00          | -20.56 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | --               | -21.47         | --                       | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | 75.68            | -26.12         | 49.56                    | 74.00          | -24.44 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | --               | -26.12         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                          |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | 74.57            | -21.47         | 53.1                     | 74.00          | -20.90 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | --               | -21.47         | --                       | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | 76.26            | -26.12         | 50.14                    | 74.00          | -23.86 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | --               | -26.12         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                          |                |        |        |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS                     |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2450MHz~2550MHz          |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | $\pi/4$ DQPSK TX 2480MHz |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | 78.21            | -25.29         | 52.92                    | 74.00          | -21.08 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | --               | -25.29         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                          |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | 77.29            | -25.29         | 52.00                    | 74.00          | -22.00 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | --               | -25.29         | --                       | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                          |                |        |        |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit.<br>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |          |                  |                |                          |                |        |        |

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS             |                |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|------------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2310MHz~2410MHz  |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | 8DPSK TX 2402MHz |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)  | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | 74.28            | -21.47         | 52.81            | 74.00          | -21.19 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | --               | -21.47         | --               | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | 75.99            | -26.12         | 49.87            | 74.00          | -24.13 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | --               | -26.12         | --               | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | 74.05            | -21.47         | 52.58            | 74.00          | -21.42 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | --               | -21.47         | --               | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | 75.62            | -26.12         | 49.5             | 74.00          | -24.50 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | --               | -26.12         | --               | 54.00          | --     | Avg    |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS             |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2450MHz~2550MHz  |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | 8DPSK TX 2480MHz |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | 78.21            | -25.29         | 52.92            | 74.00          | -21.08 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | --               | -25.29         | --               | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | 77.28            | -25.29         | 51.99            | 74.00          | -22.01 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | --               | -25.29         | --               | 54.00          | --     | Avg    |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit.<br>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |          |                  |                |                  |                |        |        |

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS            |                |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2310MHz~2410MHz |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | GFSK Hopping    |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | 73.01            | -21.47         | 51.54           | 74.00          | -22.46 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | --               | -21.47         | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | 72.09            | -26.12         | 45.97           | 74.00          | -28.03 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | --               | -26.12         | --              | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | 73.21            | -21.47         | 51.74           | 74.00          | -22.26 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | --               | -21.47         | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | 72.27            | -26.12         | 46.15           | 74.00          | -27.85 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | --               | -26.12         | --              | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                 |                |        |        |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS            |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2450MHz~2550MHz |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | GFSK Hopping    |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | 77.05            | -25.29         | 51.76           | 74.00          | -22.24 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | --               | -25.29         | --              | 54.00          | --     | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | 77.12            | -25.29         | 51.83           | 74.00          | -22.17 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | --               | -25.29         | --              | 54.00          | --     | Avg    |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit.<br>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |          |                  |                |                 |                |        |        |



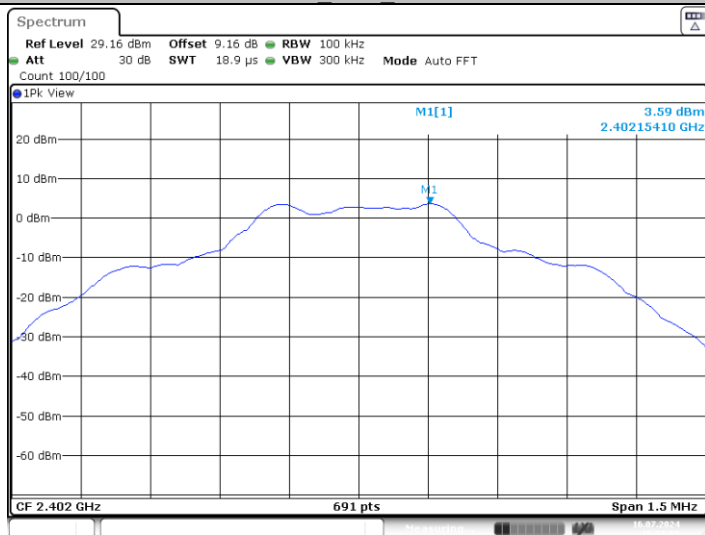
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS                  |                |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2310MHz~2410MHz       |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | $\pi/4$ DQPSK Hopping |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)       | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | 71.28            | -21.47         | 49.81                 | 74.00          | -24.19 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | --               | -21.47         | --                    | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | 72.47            | -26.12         | 46.35                 | 74.00          | -27.65 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | --               | -26.12         | --                    | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | 71.96            | -21.47         | 50.49                 | 74.00          | -23.51 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | --               | -21.47         | --                    | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | 70.27            | -26.12         | 44.15                 | 74.00          | -29.85 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | --               | -26.12         | --                    | 54.00          | --     | Avg    |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS                  |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2450MHz~2550MHz       |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | $\pi/4$ DQPSK Hopping |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | 77.21            | -25.29         | 51.92                 | 74.00          | -22.08 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | --               | -25.29         | --                    | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | 73.89            | -25.29         | 48.60                 | 74.00          | -25.40 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | --               | -25.29         | --                    | 54.00          | --     | Avg    |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit.<br>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |          |                  |                |                       |                |        |        |

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS            |                |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2310MHz~2410MHz |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | 8DPSK Hopping   |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | 74.01            | -21.47         | 52.54           | 74.00          | -21.46 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | --               | -21.47         | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | 73.54            | -26.12         | 47.42           | 74.00          | -26.58 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | --               | -26.12         | --              | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | 73.25            | -21.47         | 51.78           | 74.00          | -22.22 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | --               | -21.47         | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | 71.04            | -26.12         | 44.92           | 74.00          | -29.08 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | --               | -26.12         | --              | 54.00          | --     | Avg    |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |                  |                | PASS            |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                | 2450MHz~2550MHz |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |                  |                | 8DPSK Hopping   |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | 71.22            | -25.29         | 45.93           | 74.00          | -28.07 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | --               | -25.29         | --              | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | 72.27            | -25.29         | 46.98           | 74.00          | -27.02 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | --               | -25.29         | --              | 54.00          | --     | Avg    |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit.<br>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |          |                  |                |                 |                |        |        |

**Reference level measurement**

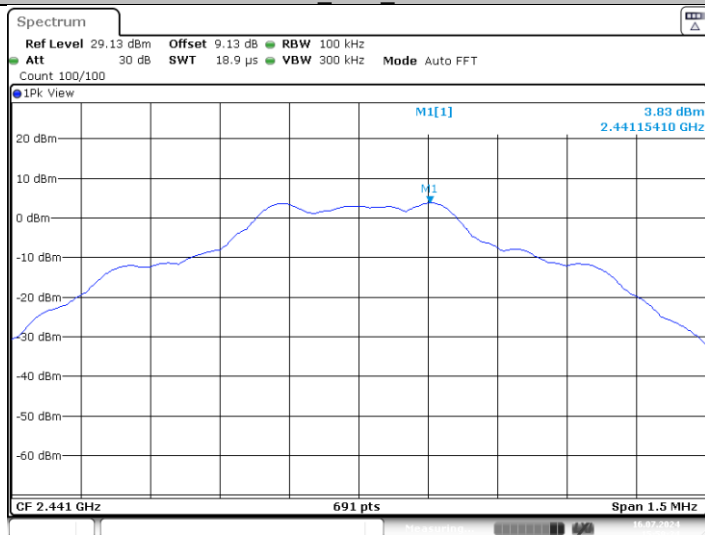
| TestMode | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|----------|---------|-----------|----------------|-------------|
| DH5      | Ant1    | 2402      | 2402.15        | 3.59        |
|          |         | 2441      | 2441.15        | 3.83        |
|          |         | 2480      | 2479.84        | 3.01        |
| 2DH5     | Ant1    | 2402      | 2402.15        | 2.58        |
|          |         | 2441      | 2441.15        | 2.82        |
|          |         | 2480      | 2479.84        | 2.07        |
| 3DH5     | Ant1    | 2402      | 2402.16        | 2.45        |
|          |         | 2441      | 2441.16        | 2.73        |
|          |         | 2480      | 2480.16        | 1.83        |

## DH5\_Ant1\_2402



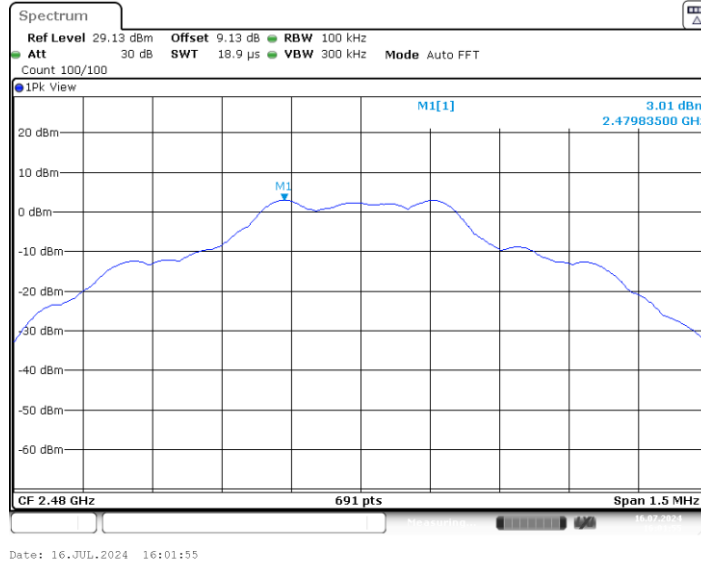
Date: 16.JUL.2024 15:57:55

## DH5\_Ant1\_2441

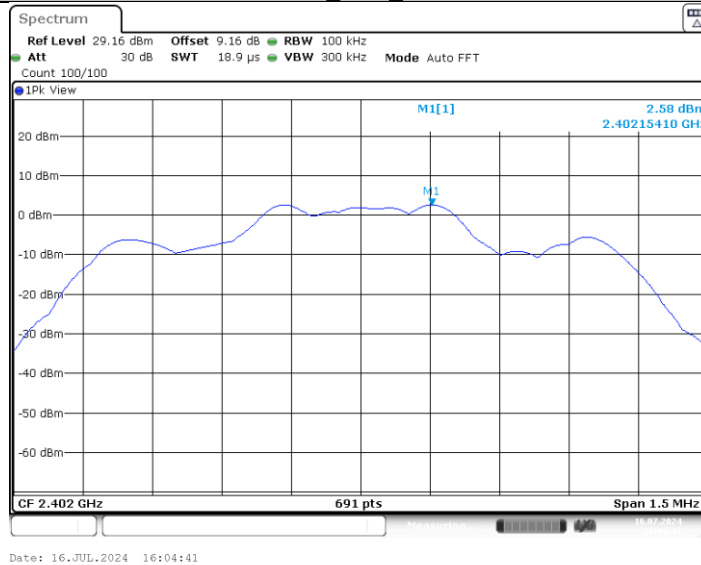


Date: 16.JUL.2024 15:59:34

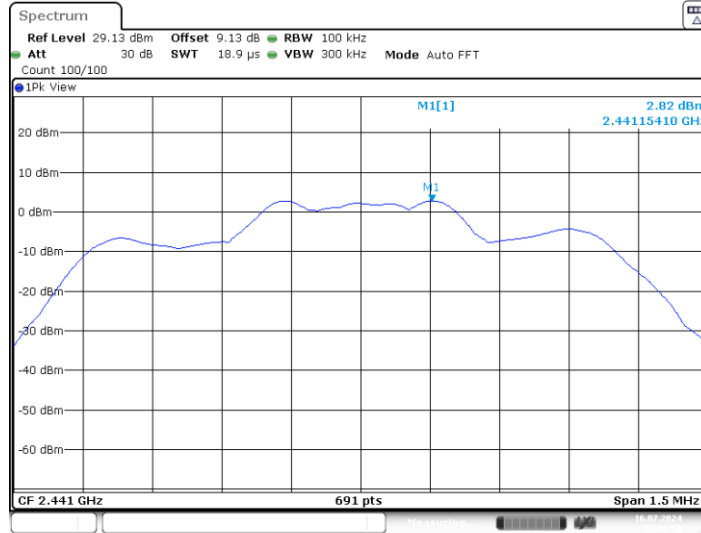
## DH5\_Ant1\_2480



2DH5\_Ant1\_2402

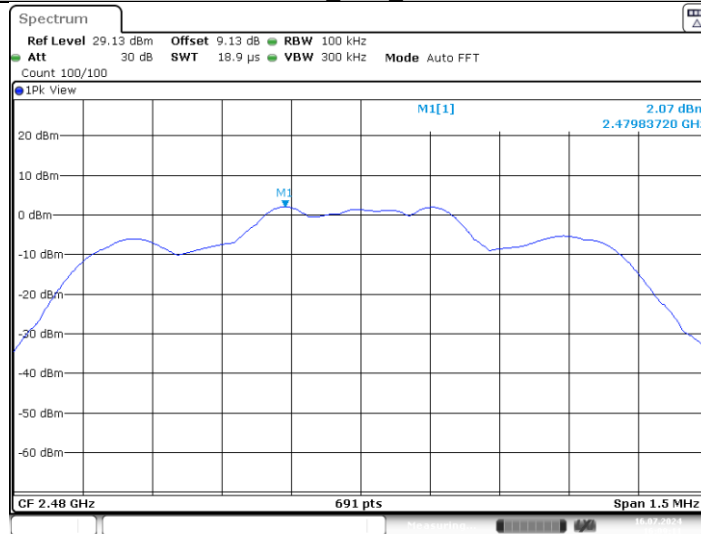


2DH5\_Ant1\_2441



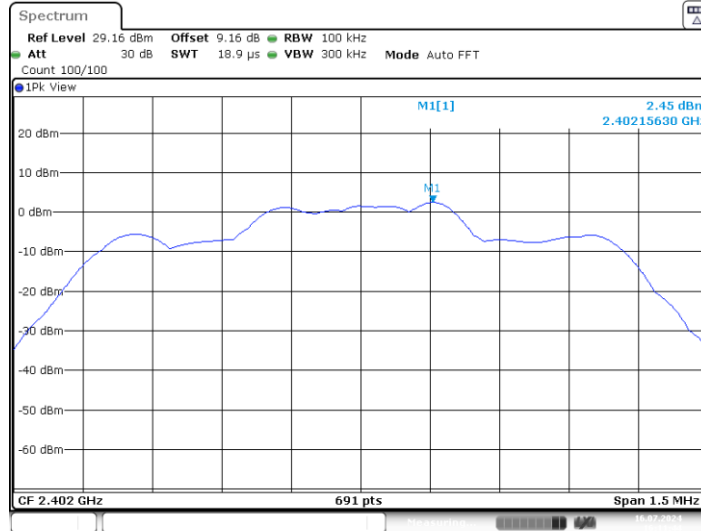
Date: 16.JUL.2024 16:06:50

### 2DH5\_Ant1\_2480



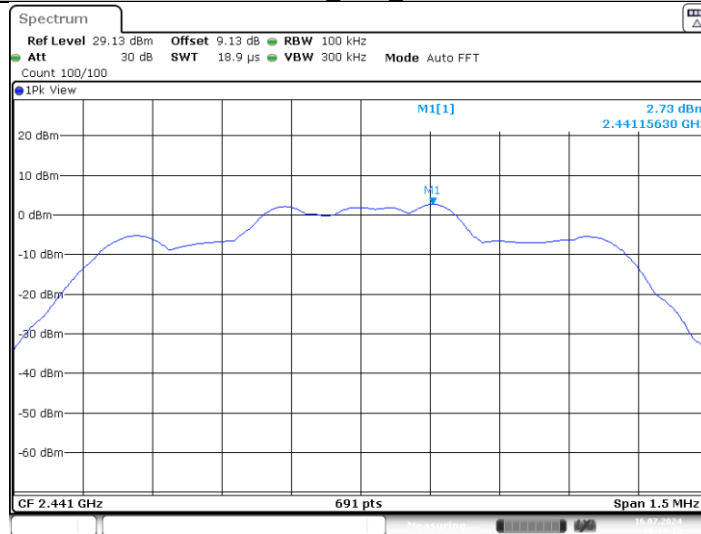
Date: 16.JUL.2024 16:09:11

### 3DH5\_Ant1\_2402



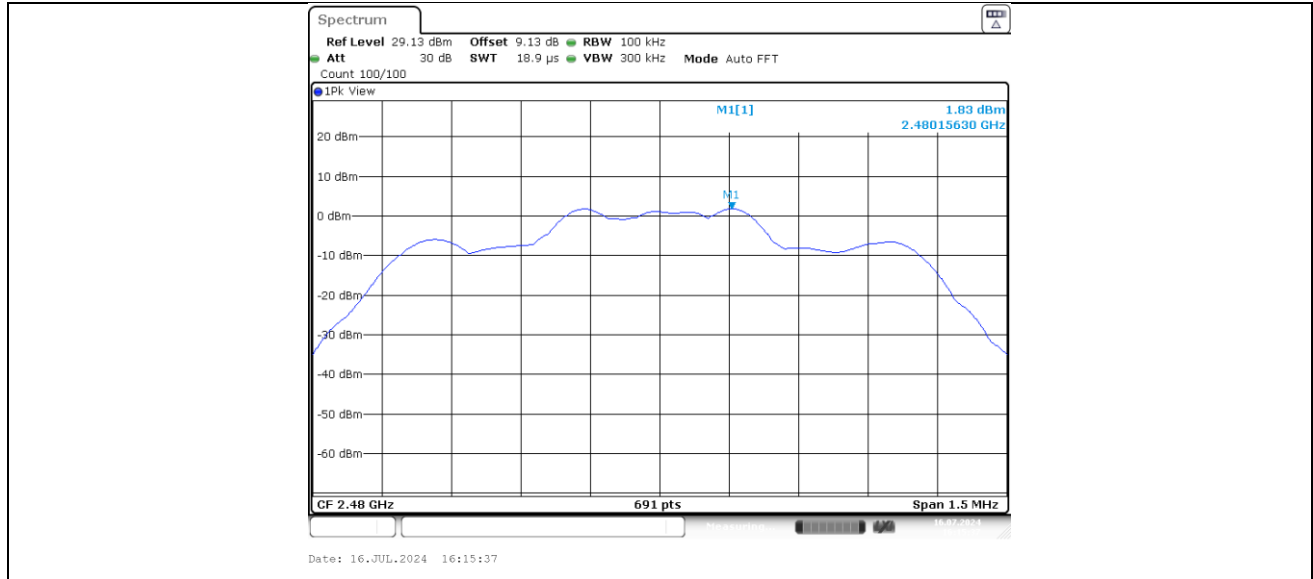
Date: 16.JUL.2024 16:11:44

3DH5\_Ant1\_2441



Date: 16.JUL.2024 16:13:12

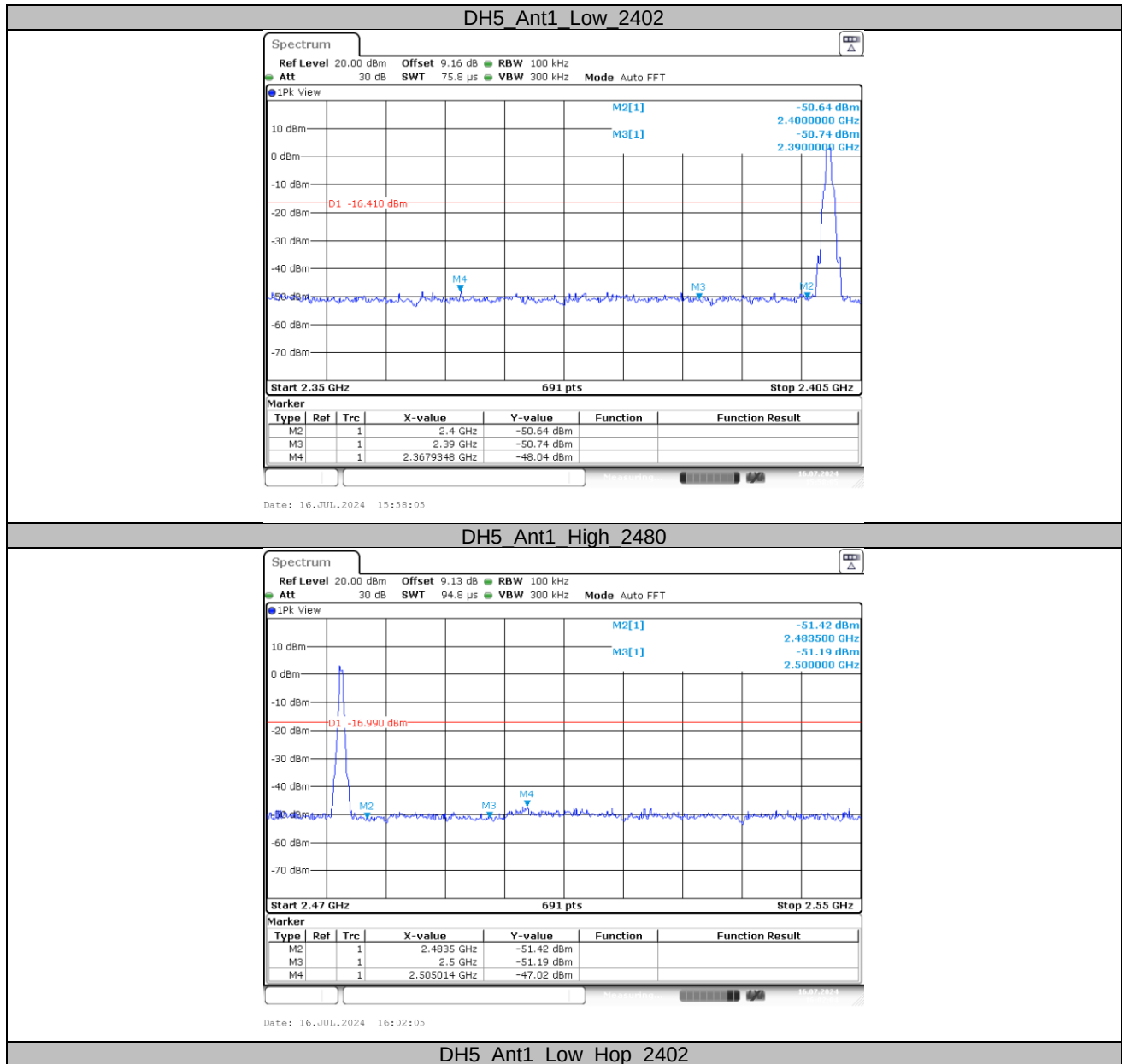
3DH5\_Ant1\_2480

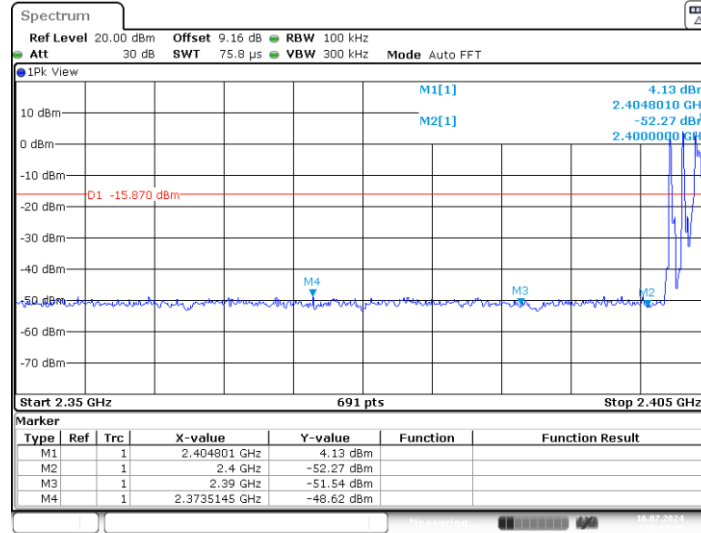




**Conducted Method**

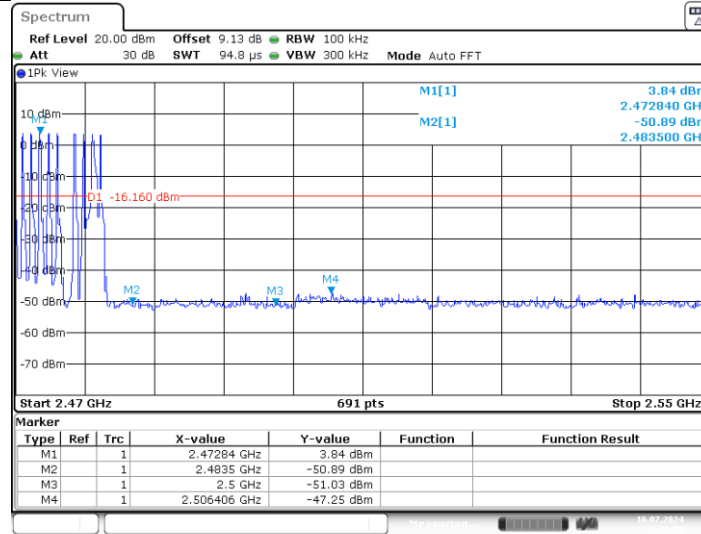
| TestMode | Antenna | ChName | Freq(MHz) | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|-----------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low    | 2402      | 3.59           | -48.04       | ≤-16.41     | PASS    |
|          |         | High   | 2480      | 3.01           | -47.02       | ≤-16.99     | PASS    |
|          |         | Low    | Hop_2402  | 4.13           | -48.62       | ≤-15.87     | PASS    |
|          |         | High   | Hop_2480  | 3.84           | -47.25       | ≤-16.16     | PASS    |
| 2DH5     | Ant1    | Low    | 2402      | 2.58           | -48.57       | ≤-17.42     | PASS    |
|          |         | High   | 2480      | 2.07           | -47.35       | ≤-17.93     | PASS    |
|          |         | Low    | Hop_2402  | 0.49           | -48.14       | ≤-19.51     | PASS    |
|          |         | High   | Hop_2480  | 1.27           | -47.05       | ≤-18.73     | PASS    |
| 3DH5     | Ant1    | Low    | 2402      | 2.45           | -48.39       | ≤-17.55     | PASS    |
|          |         | High   | 2480      | 1.83           | -47.73       | ≤-18.17     | PASS    |
|          |         | Low    | Hop_2402  | 1.79           | -48.06       | ≤-18.21     | PASS    |
|          |         | High   | Hop_2480  | 0.28           | -47.19       | ≤-19.72     | PASS    |





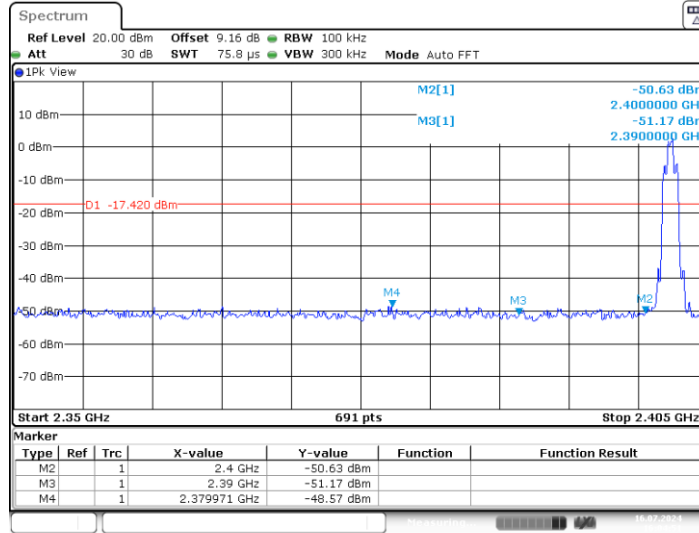
Date: 16.JUL.2024 16:17:28

### DH5\_Ant1\_High\_Hop\_2480



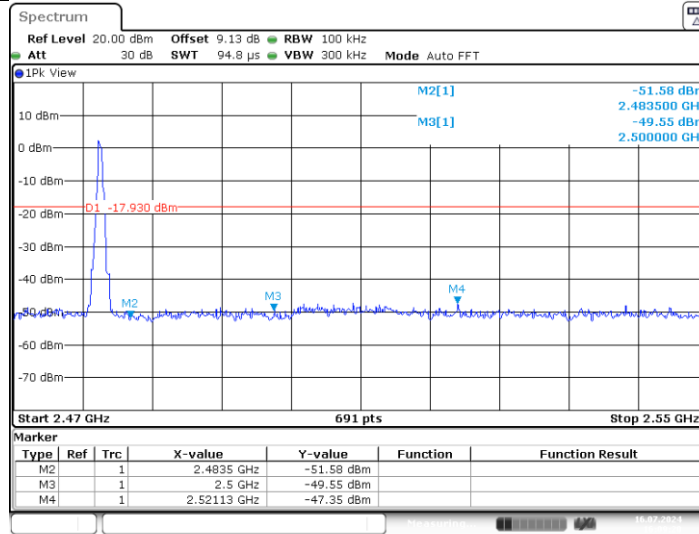
Date: 16.JUL.2024 16:21:30

### 2DH5\_Ant1\_Low\_2402



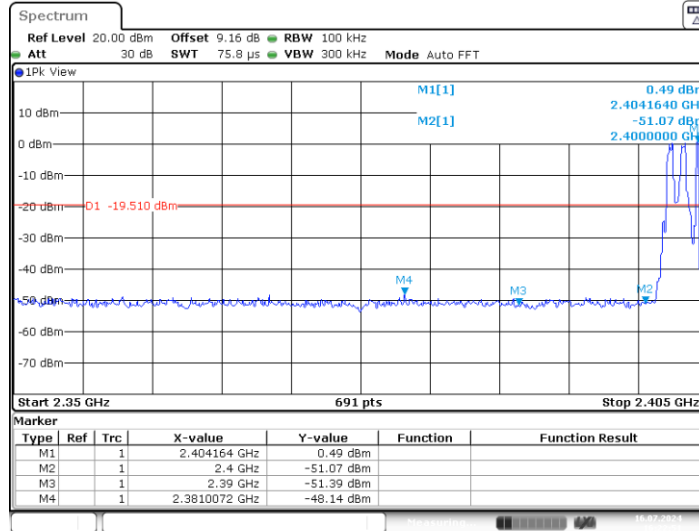
Date: 16.JUL.2024 16:04:51

## 2DH5\_Ant1\_High\_2480



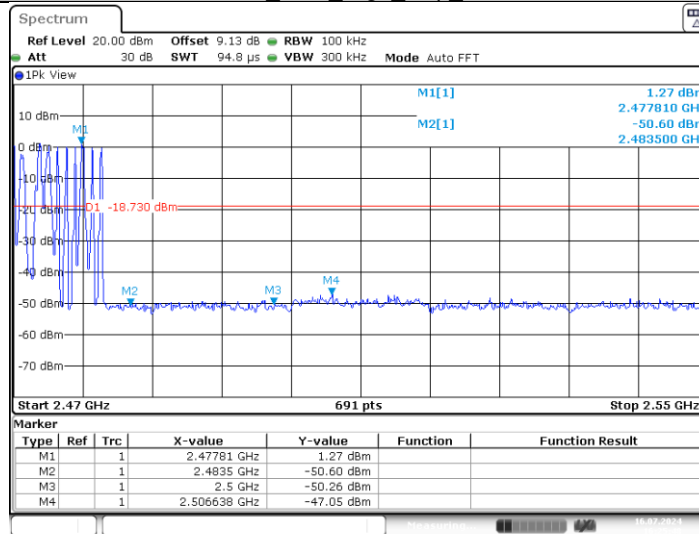
Date: 16.JUL.2024 16:09:20

## 2DH5\_Ant1\_Low\_Hop\_2402



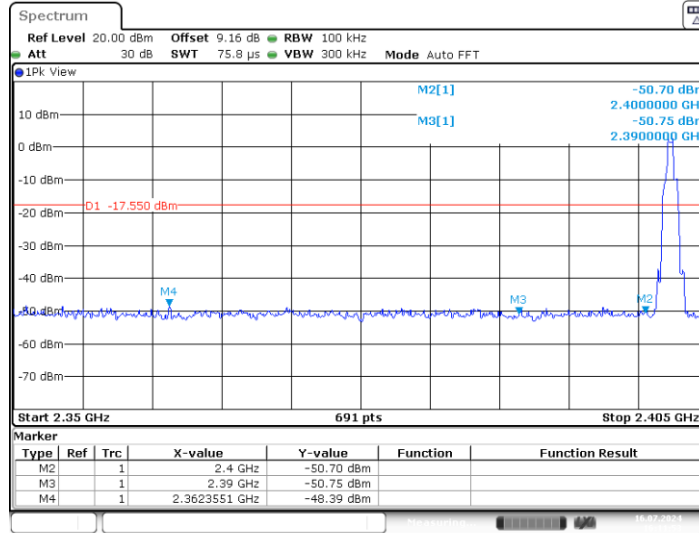
Date: 16.JUL.2024 16:22:51

### 2DH5\_Ant1\_High\_Hop\_2480



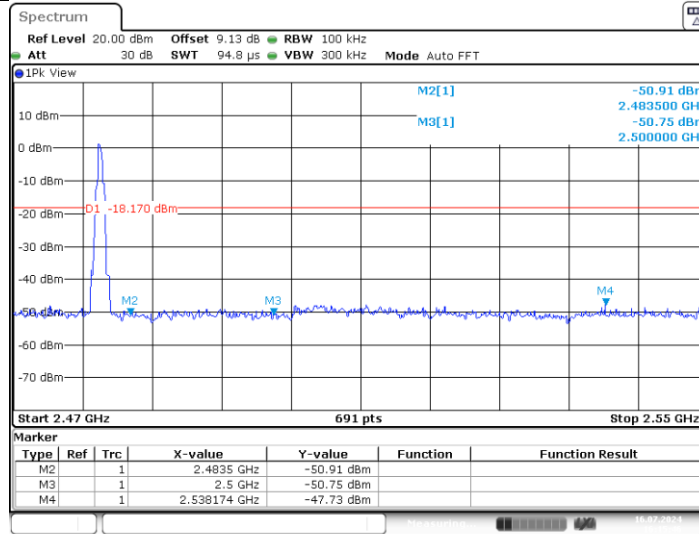
Date: 16.JUL.2024 16:25:48

### 3DH5\_Ant1\_Low\_2402



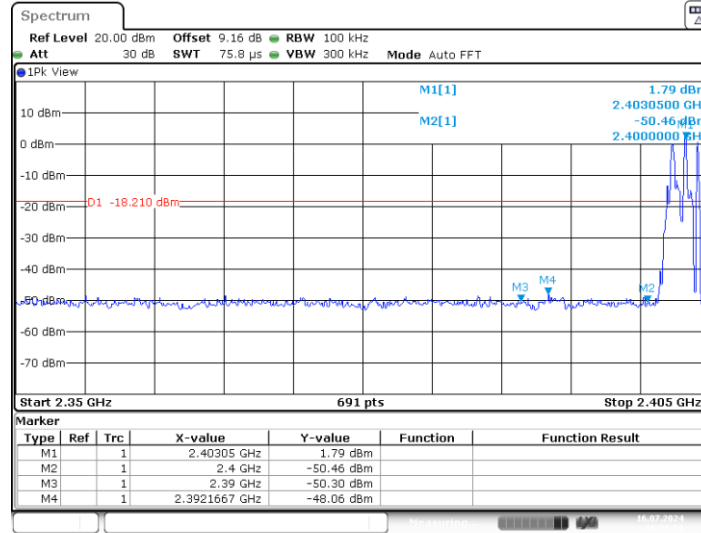
Date: 16.JUL.2024 16:11:54

### 3DH5\_Ant1\_High\_2480



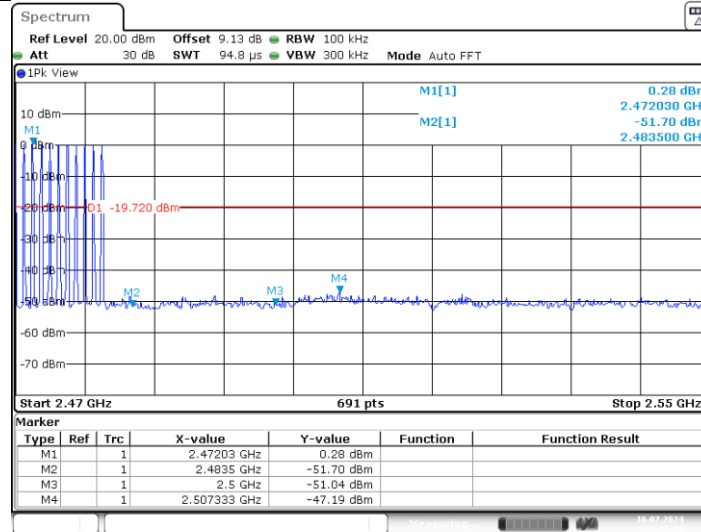
Date: 16.JUL.2024 16:15:47

### 3DH5\_Ant1\_Low\_Hop\_2402



Date: 16.JUL.2024 16:26:58

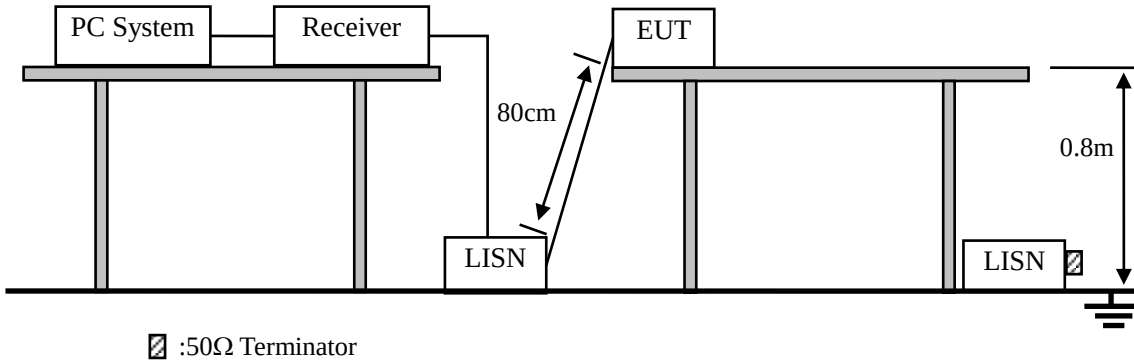
### 3DH5\_Ant1\_High\_Hop\_2480



Date: 16.JUL.2024 16:35:11

## 10. POWER LINE CONDUCTED EMISSIONS

### 10.1. Block Diagram of Test Setup



### 10.2. Limit

| Frequency       | Maximum RF Line Voltage    |                         |
|-----------------|----------------------------|-------------------------|
|                 | Quasi-Peak Level<br>dB(μV) | Average Level<br>dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56*                   | 56 ~ 46*                |
| 500kHz ~ 5MHz   | 56                         | 46                      |
| 5MHz ~ 30MHz    | 60                         | 50                      |

Notes: 1. \* Decreasing linearly with logarithm of frequency.  
2. The lower limit shall apply at the transition frequencies.

### 10.3. Test Procedure

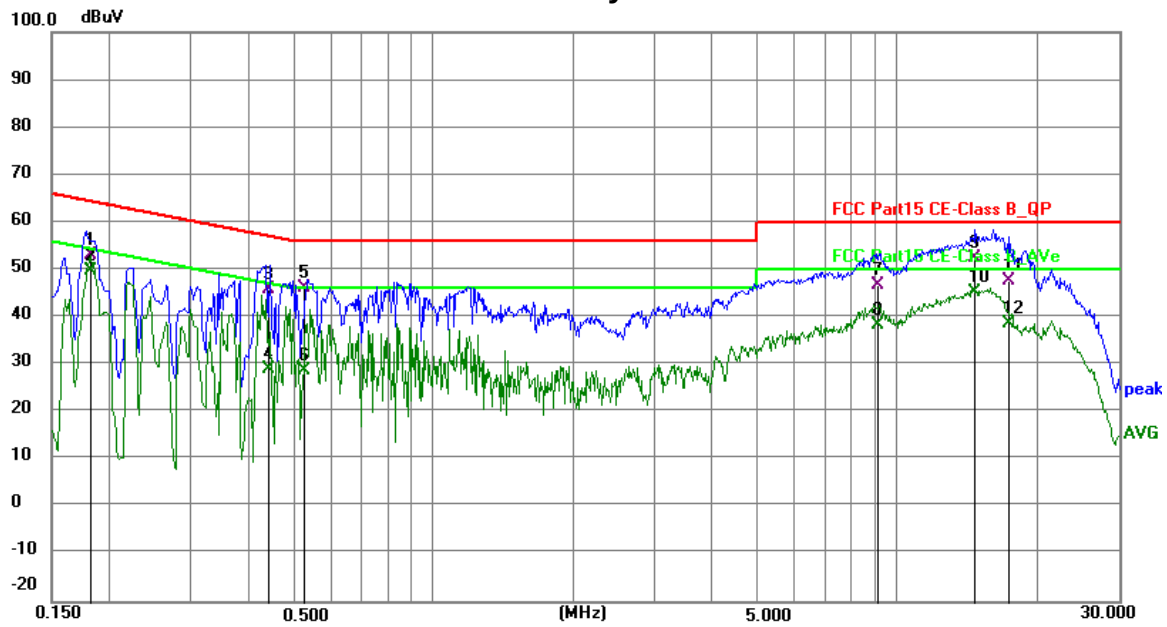
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.



## 10.4.Test Result

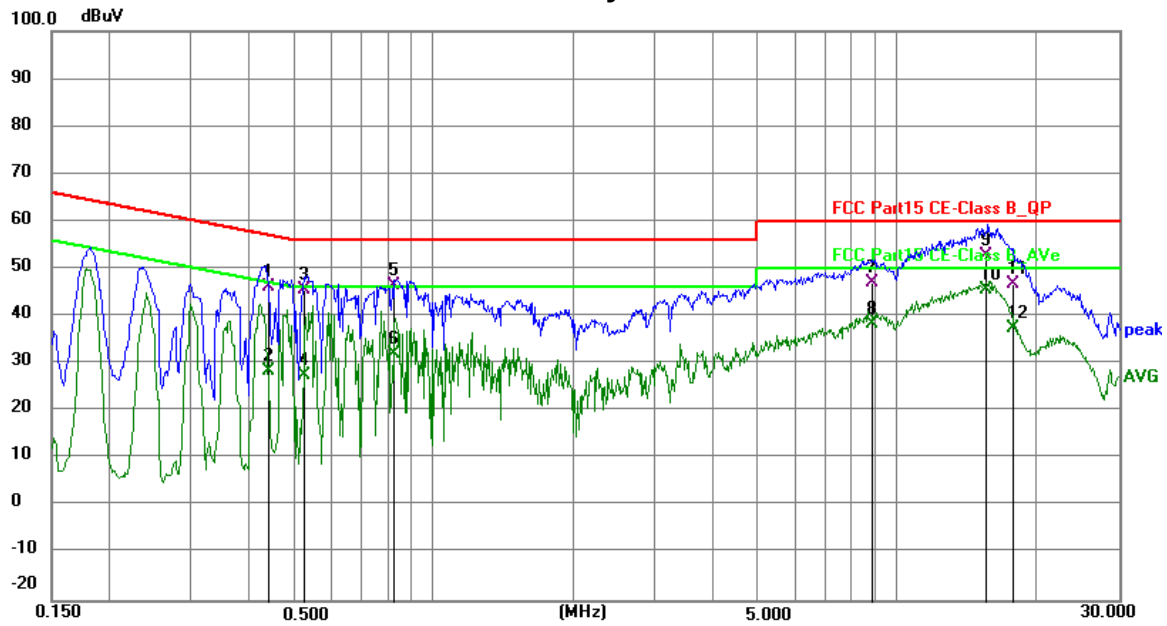
Pass

Polarity: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1828          | 43.40          | 9.63        | 53.03        | 64.36        | -11.33      | QP       | P   |        |
| 2 * | 0.1828          | 40.13          | 9.63        | 49.76        | 54.36        | -4.60       | AVG      | P   |        |
| 3   | 0.4408          | 36.26          | 9.63        | 45.89        | 57.05        | -11.16      | QP       | P   |        |
| 4   | 0.4408          | 19.30          | 9.63        | 28.93        | 47.05        | -18.12      | AVG      | P   |        |
| 5   | 0.5268          | 36.68          | 9.62        | 46.30        | 56.00        | -9.70       | QP       | P   |        |
| 6   | 0.5268          | 19.14          | 9.62        | 28.76        | 46.00        | -17.24      | AVG      | P   |        |
| 7   | 9.0649          | 37.17          | 9.72        | 46.89        | 60.00        | -13.11      | QP       | P   |        |
| 8   | 9.0649          | 28.57          | 9.72        | 38.29        | 50.00        | -11.71      | AVG      | P   |        |
| 9   | 14.7048         | 42.60          | 9.75        | 52.35        | 60.00        | -7.65       | QP       | P   |        |
| 10  | 14.7048         | 35.37          | 9.75        | 45.12        | 50.00        | -4.88       | AVG      | P   |        |
| 11  | 17.4446         | 37.98          | 9.76        | 47.74        | 60.00        | -12.26      | QP       | P   |        |
| 12  | 17.4446         | 29.00          | 9.76        | 38.76        | 50.00        | -11.24      | AVG      | P   |        |

Polarity: N



| No.  | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|------|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1    | 0.4407          | 36.64          | 9.62        | 46.26        | 57.05        | -10.79      | QP       | P   |        |
| 2    | 0.4407          | 18.85          | 9.62        | 28.47        | 47.05        | -18.58      | AVG      | P   |        |
| 3    | 0.5253          | 35.98          | 9.62        | 45.60        | 56.00        | -10.40      | QP       | P   |        |
| 4    | 0.5253          | 17.97          | 9.62        | 27.59        | 46.00        | -18.41      | AVG      | P   |        |
| 5    | 0.8272          | 36.73          | 9.62        | 46.35        | 56.00        | -9.65       | QP       | P   |        |
| 6    | 0.8272          | 22.38          | 9.62        | 32.00        | 46.00        | -14.00      | AVG      | P   |        |
| 7    | 8.8202          | 37.45          | 9.72        | 47.17        | 60.00        | -12.83      | QP       | P   |        |
| 8    | 8.8202          | 28.49          | 9.72        | 38.21        | 50.00        | -11.79      | AVG      | P   |        |
| 9    | 15.6312         | 42.87          | 9.76        | 52.63        | 60.00        | -7.37       | QP       | P   |        |
| 10 * | 15.6312         | 35.83          | 9.76        | 45.59        | 50.00        | -4.41       | AVG      | P   |        |
| 11   | 17.8160         | 37.05          | 9.79        | 46.84        | 60.00        | -13.16      | QP       | P   |        |
| 12   | 17.8160         | 27.60          | 9.79        | 37.39        | 50.00        | -12.61      | AVG      | P   |        |

## **11. ANTENNA REQUIREMENTS**

### **11.1.Limit**

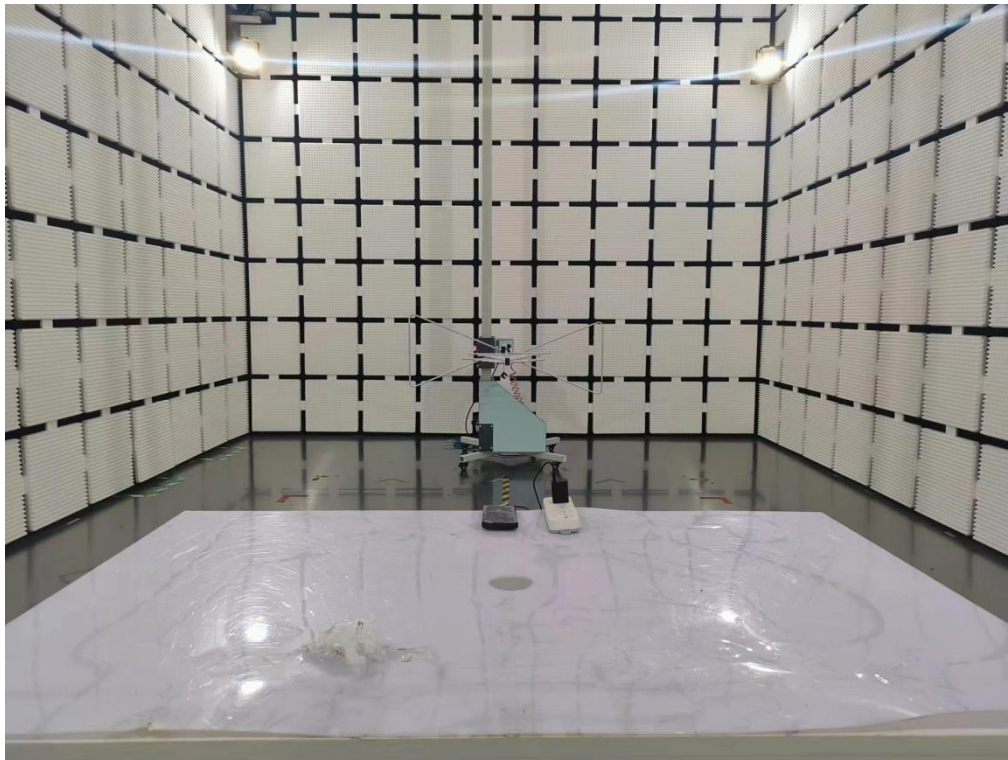
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **11.2.Result**

The EUT antenna is PIFA Antenna. It comply with the standard requirement.

## 12. TEST SETUP PHOTO

### 12.1. Photo of Radiated Emission test



### 12.2.Photo of Conducted Emission test

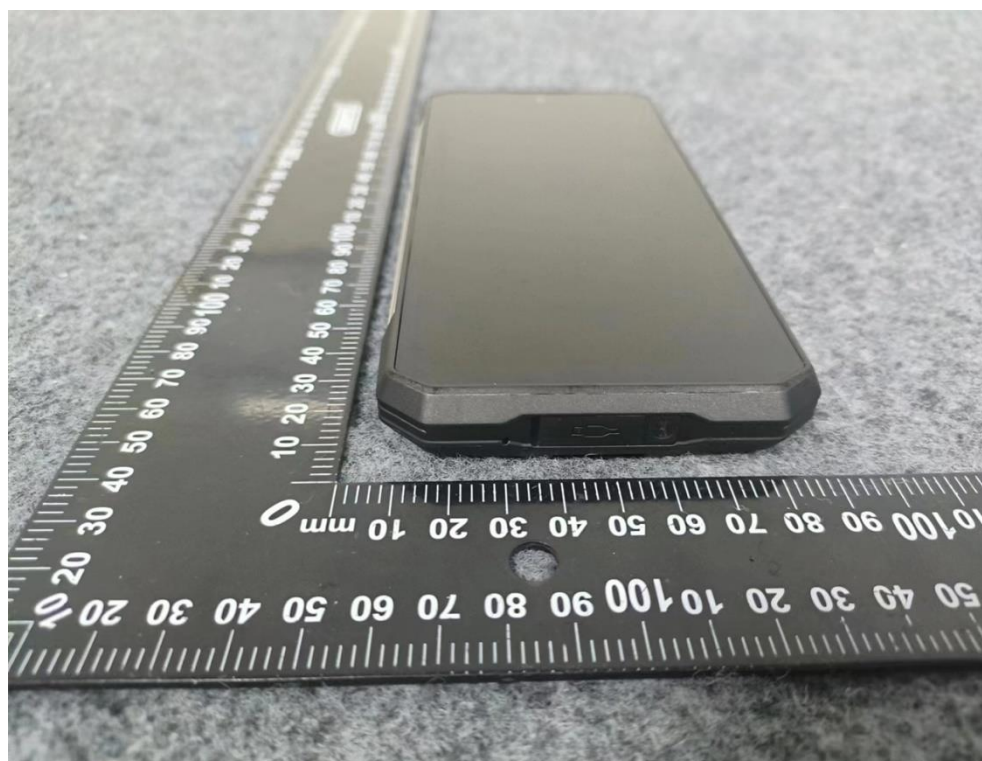


### 12.3.Conducted Test Photos





**13. PHOTOS OF EUT**

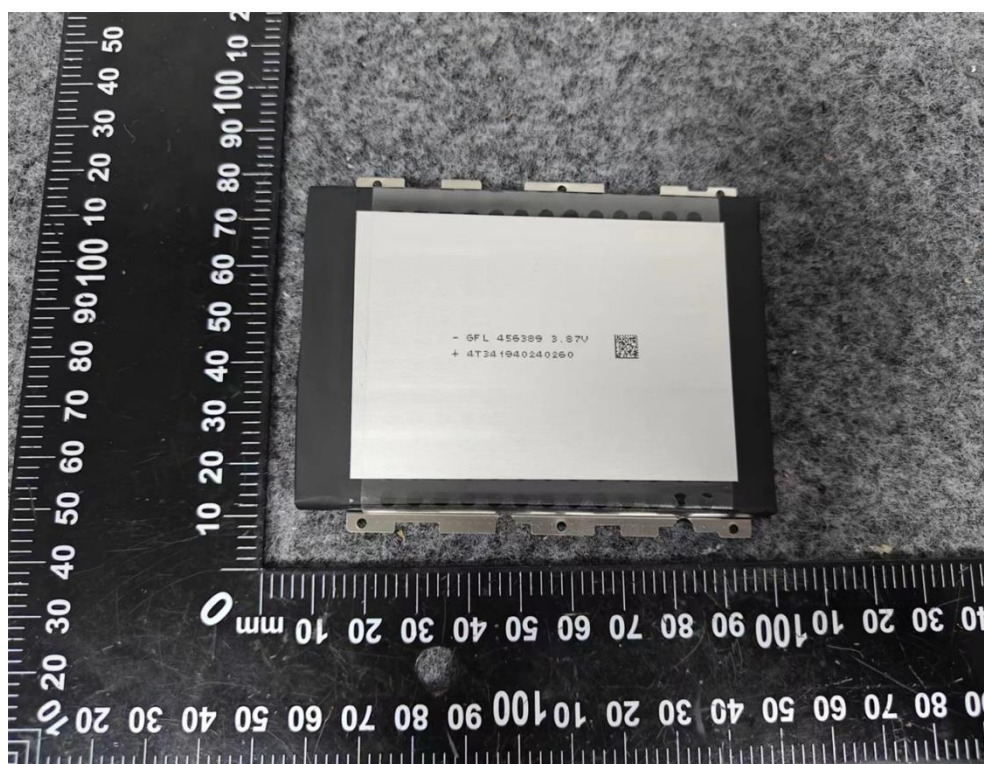
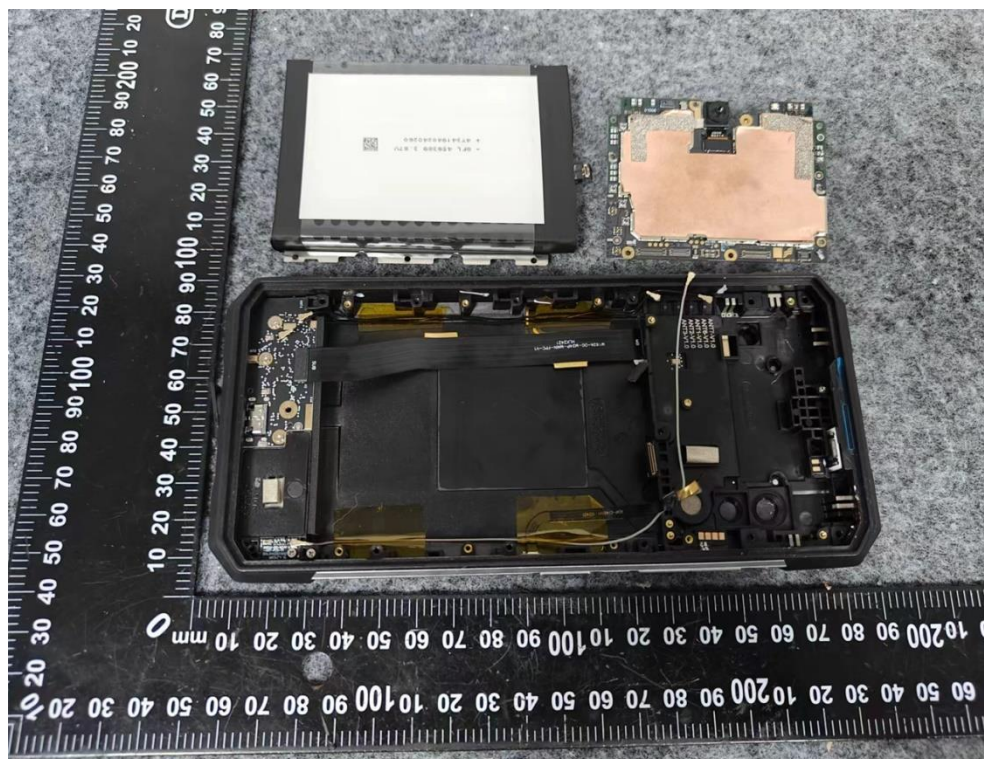




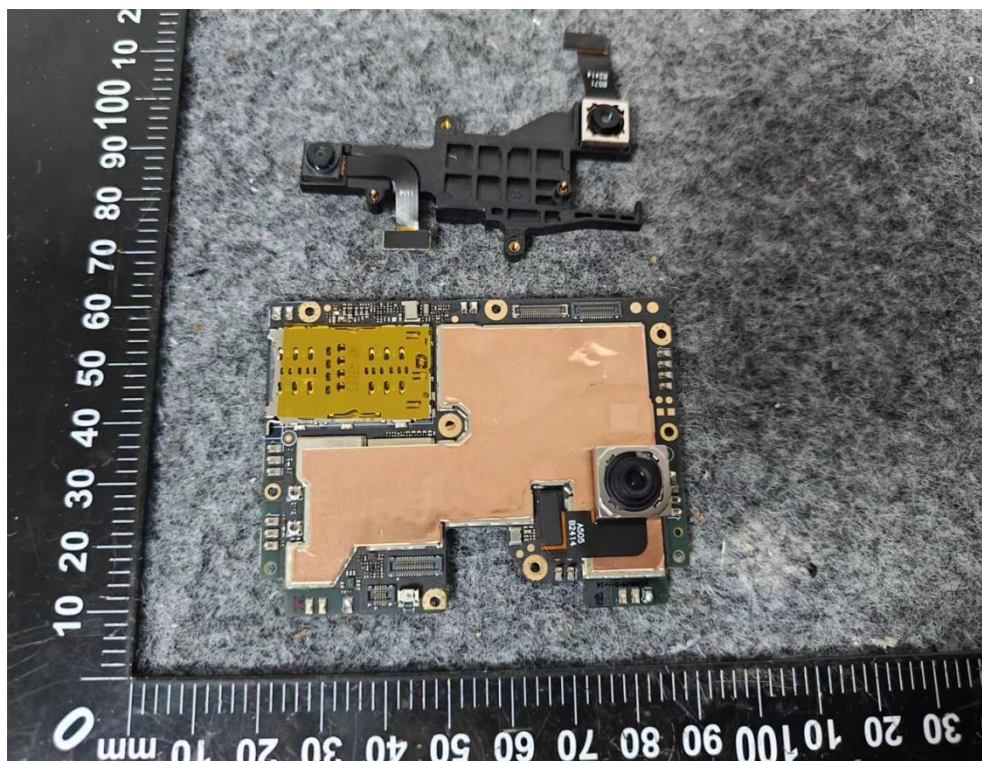
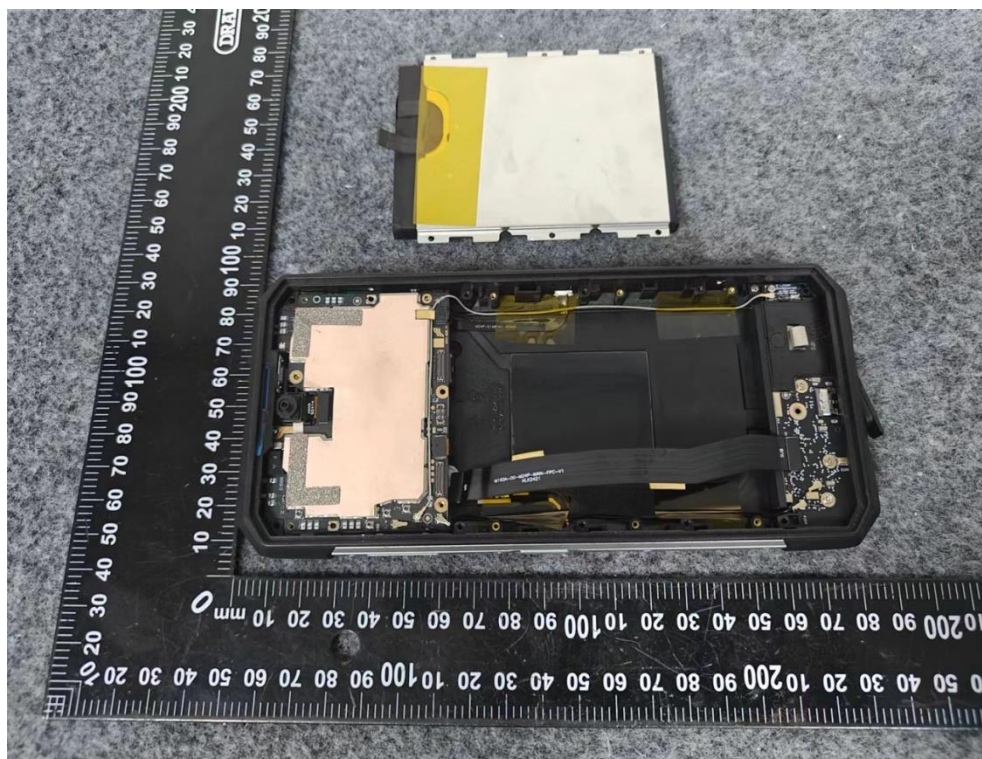




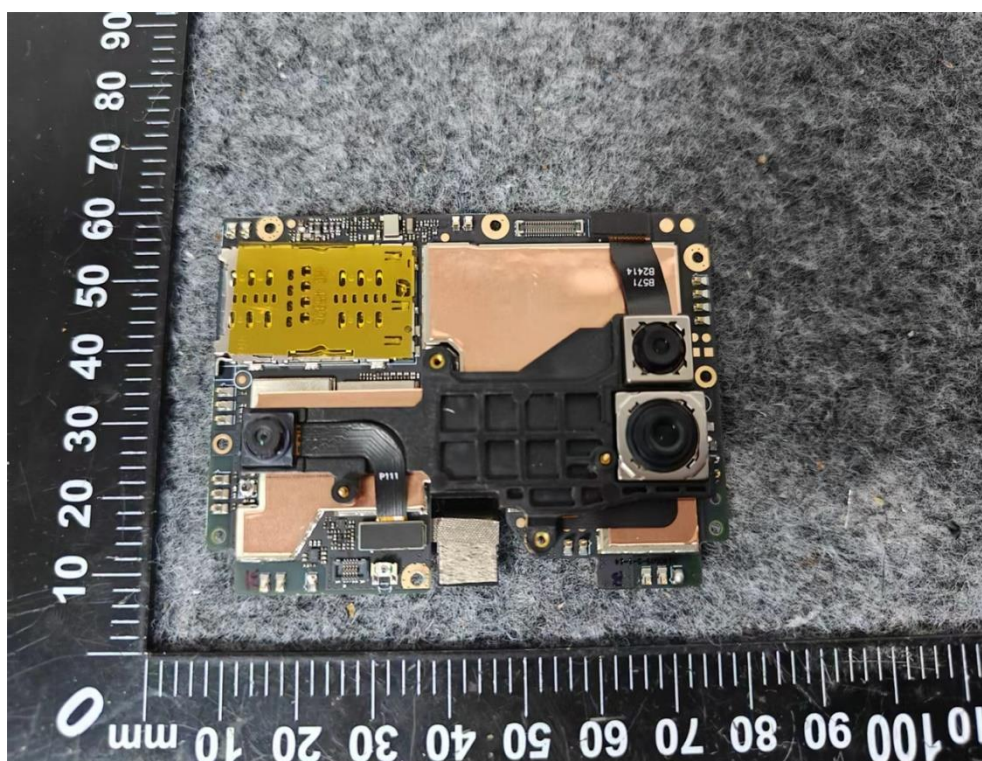
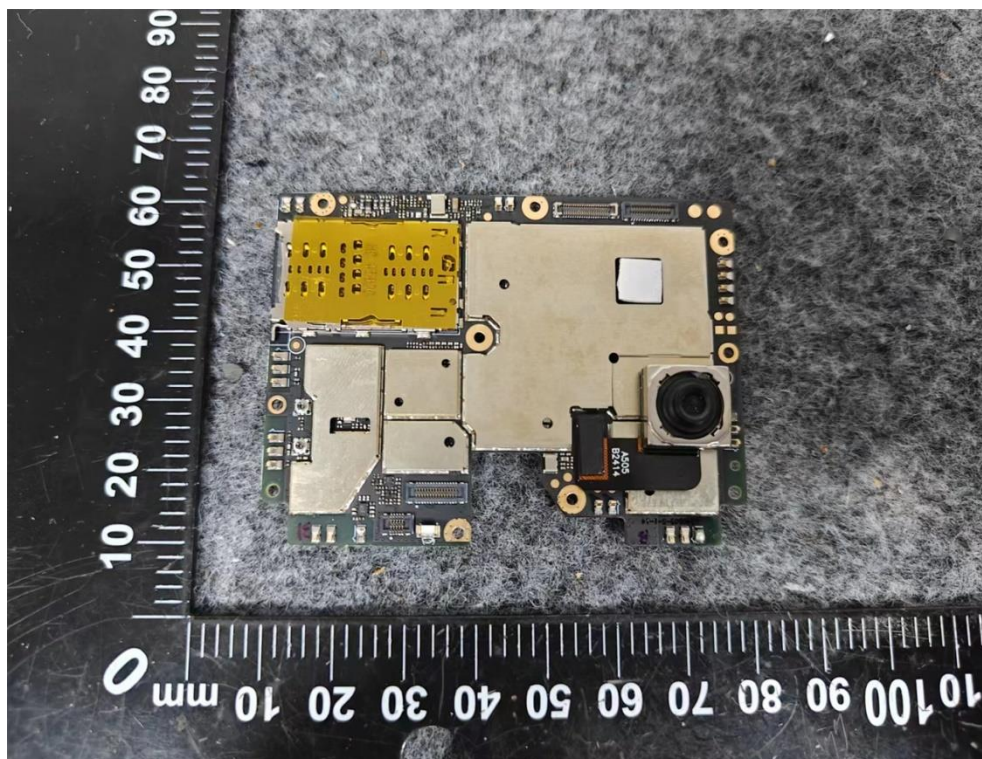




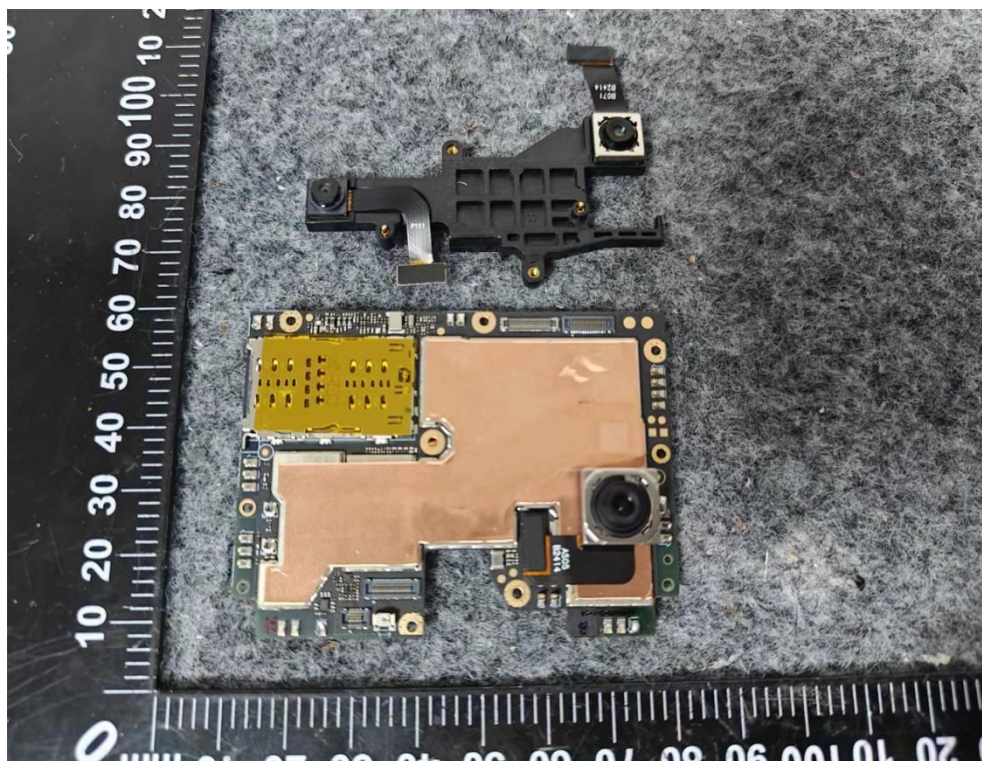
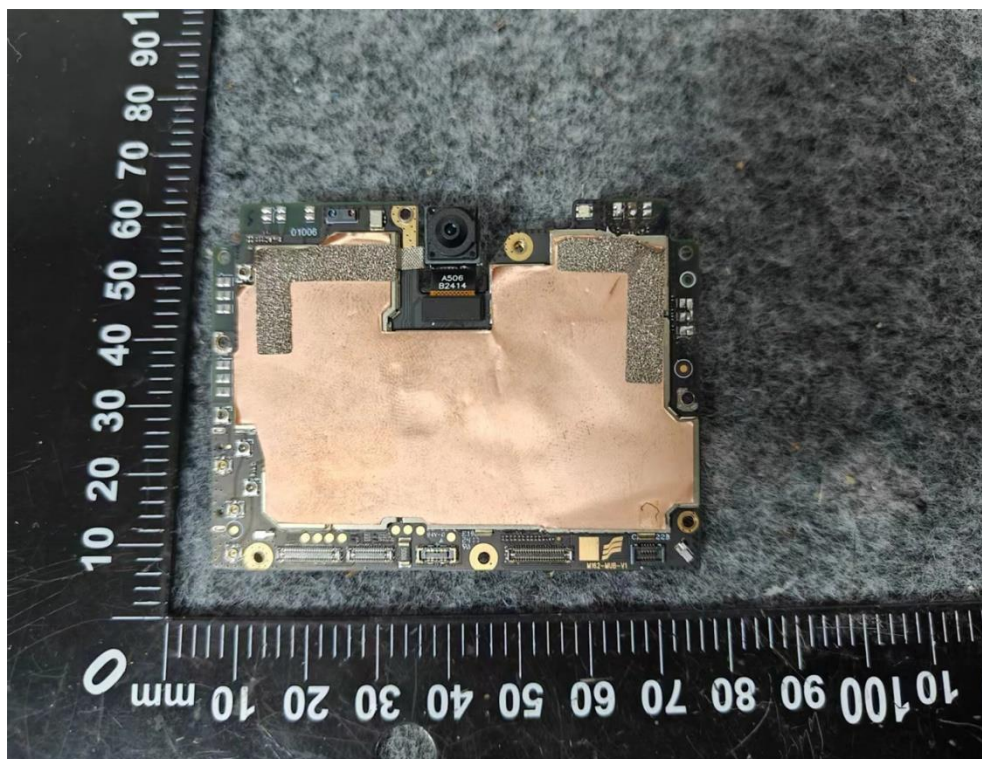




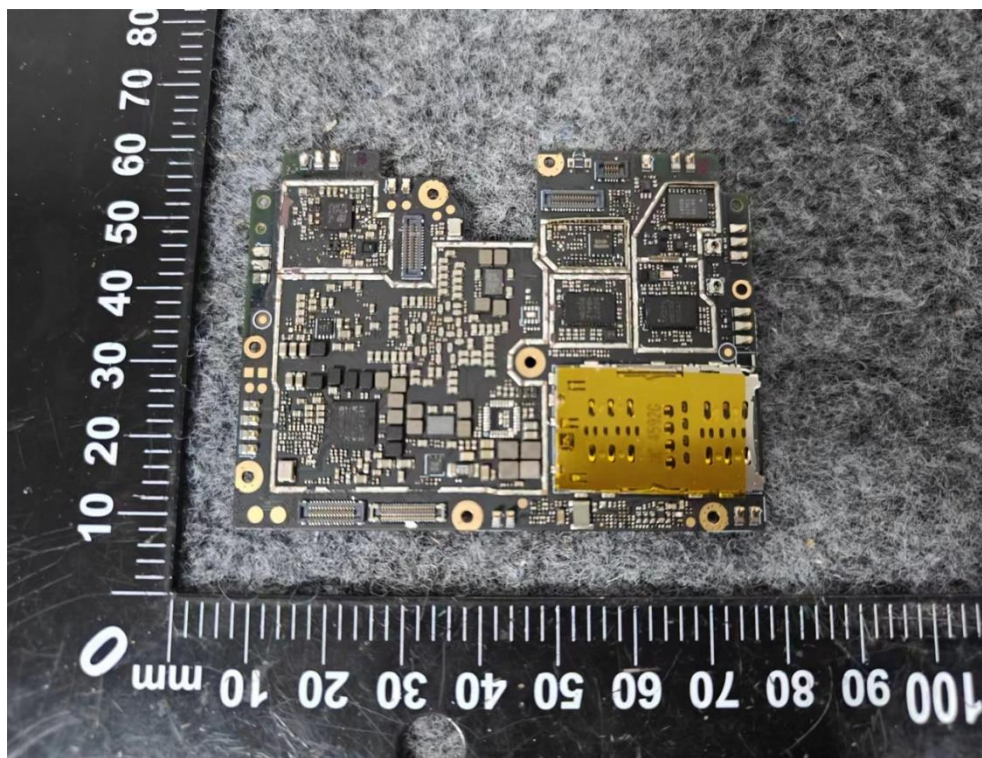
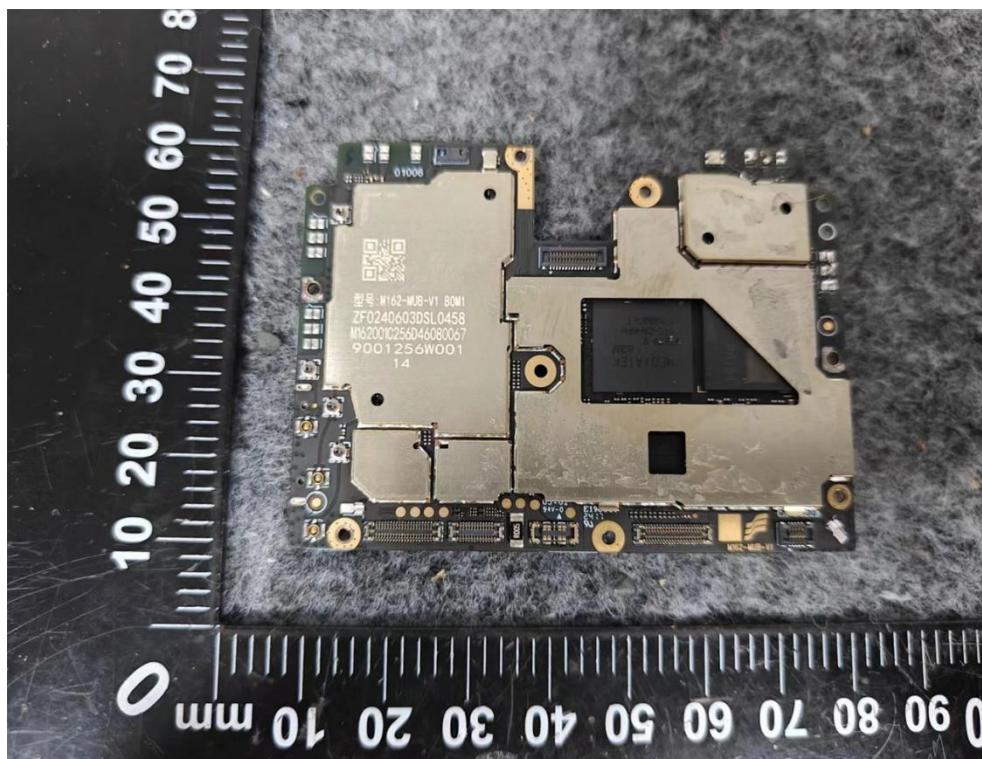




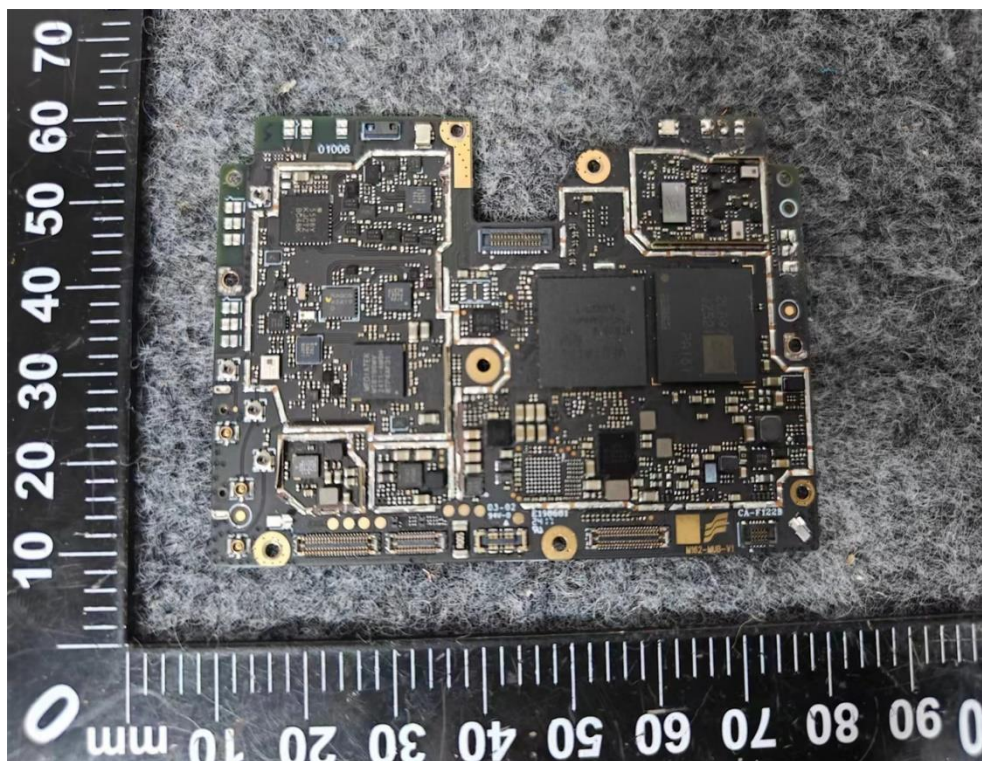


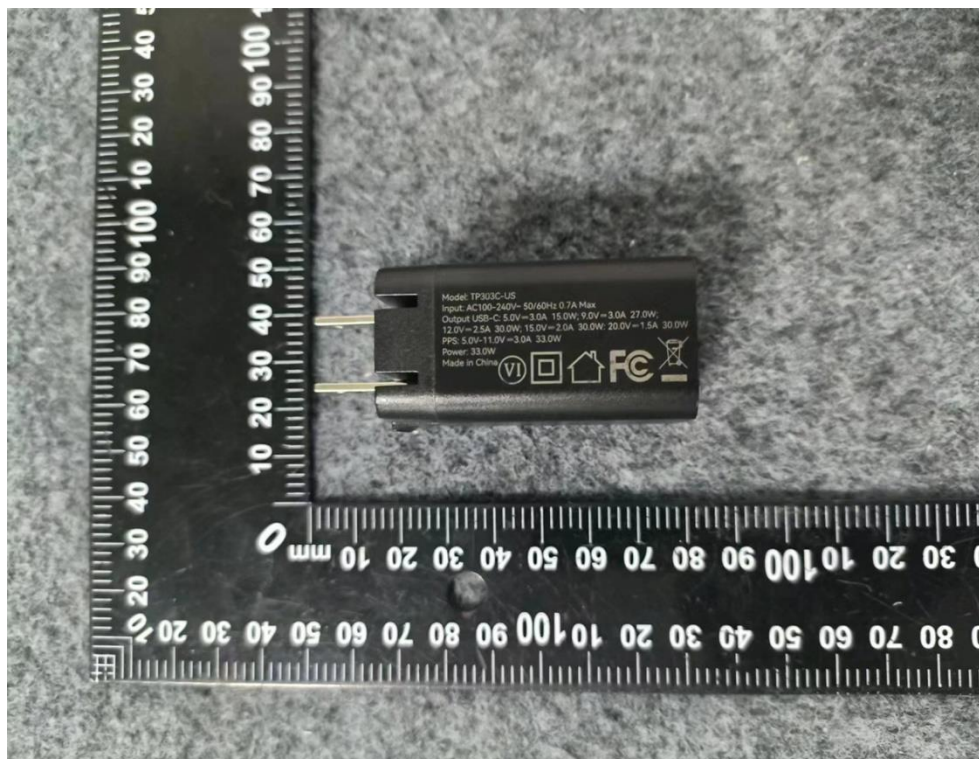












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