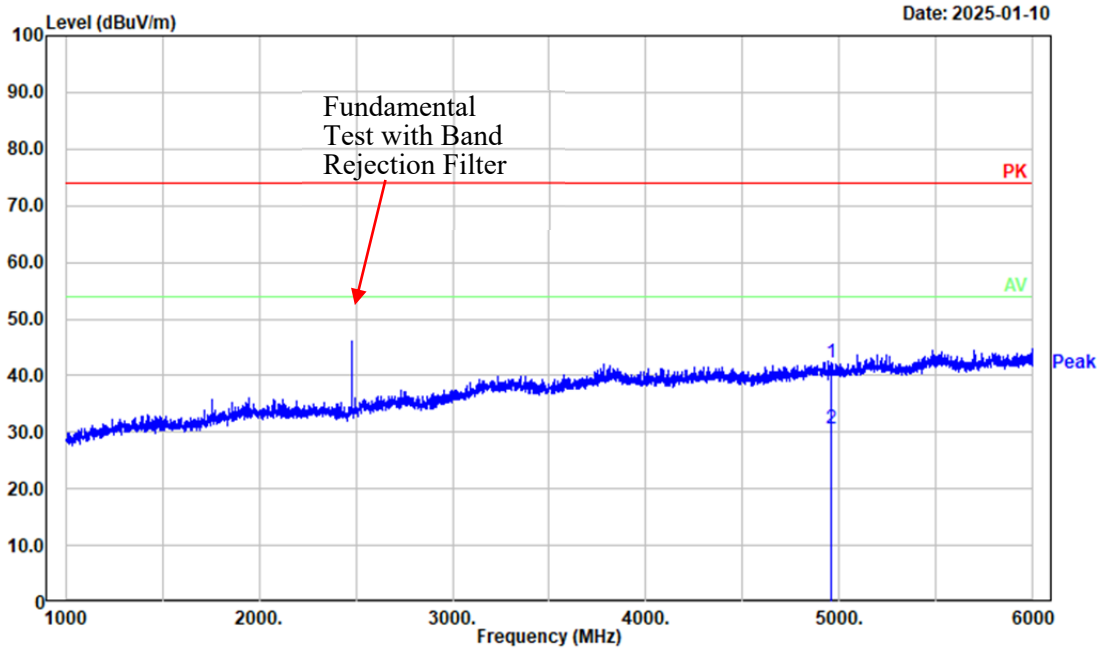
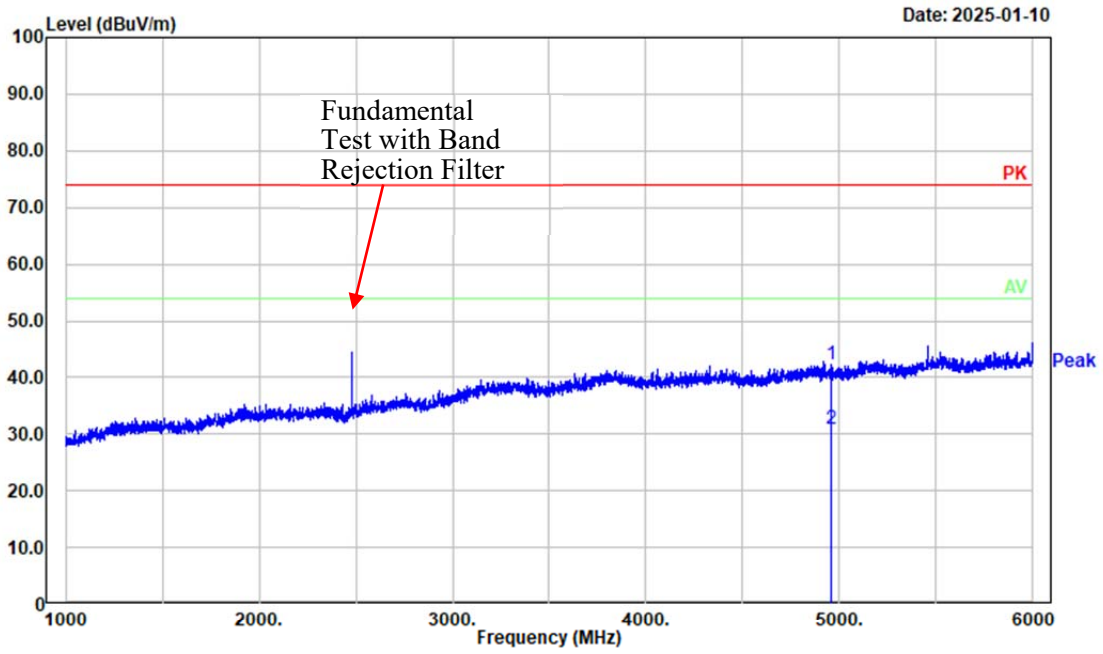
**Worst radiation spurious emissions margin test plots for each mode**
Note: for 18 – 25 GHz range, only report the worst case mode

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: horizontal
       Note: BDR High Channel 2480MHz
```



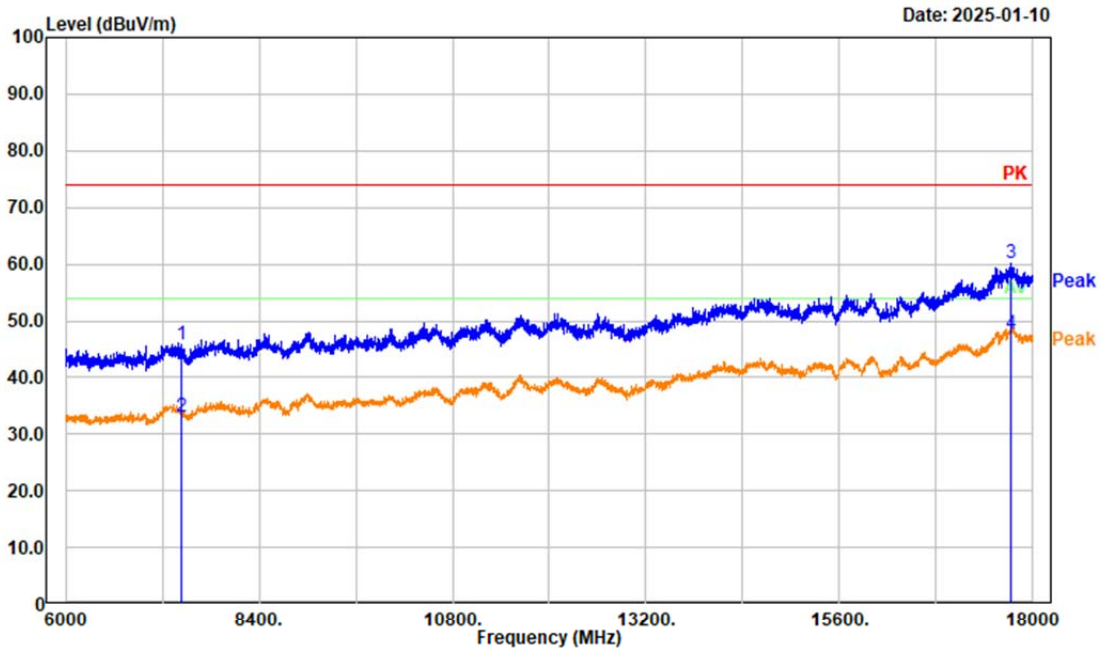

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 4960.000 | 33.60 | 8.80 | 42.40 | 74.00 | 31.60 | Peak |
| 2 | 4960.000 | 21.75 | 8.80 | 30.55 | 54.00 | 23.45 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: vertical
       Note: BDR High Channel 2480MHz
```



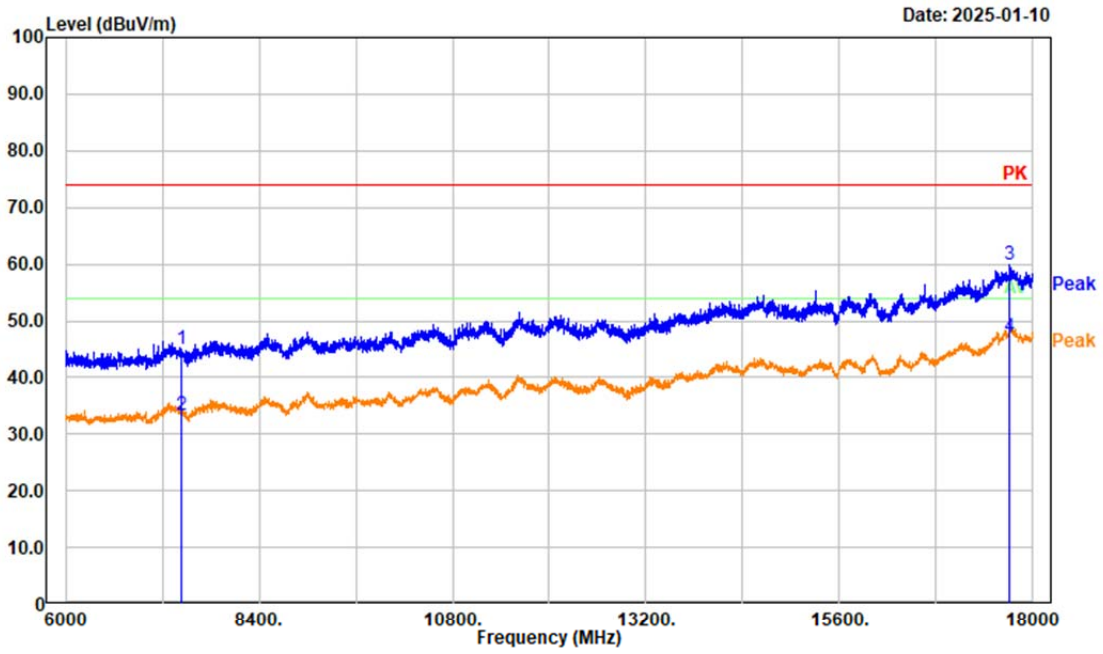

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 4960.000 | 33.44 | 8.80 | 42.24 | 74.00 | 31.76 | Peak |
| 2 | 4960.000 | 22.04 | 8.80 | 30.84 | 54.00 | 23.16 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: horizontal
       Note: BDR High Channel 2480MHz
```



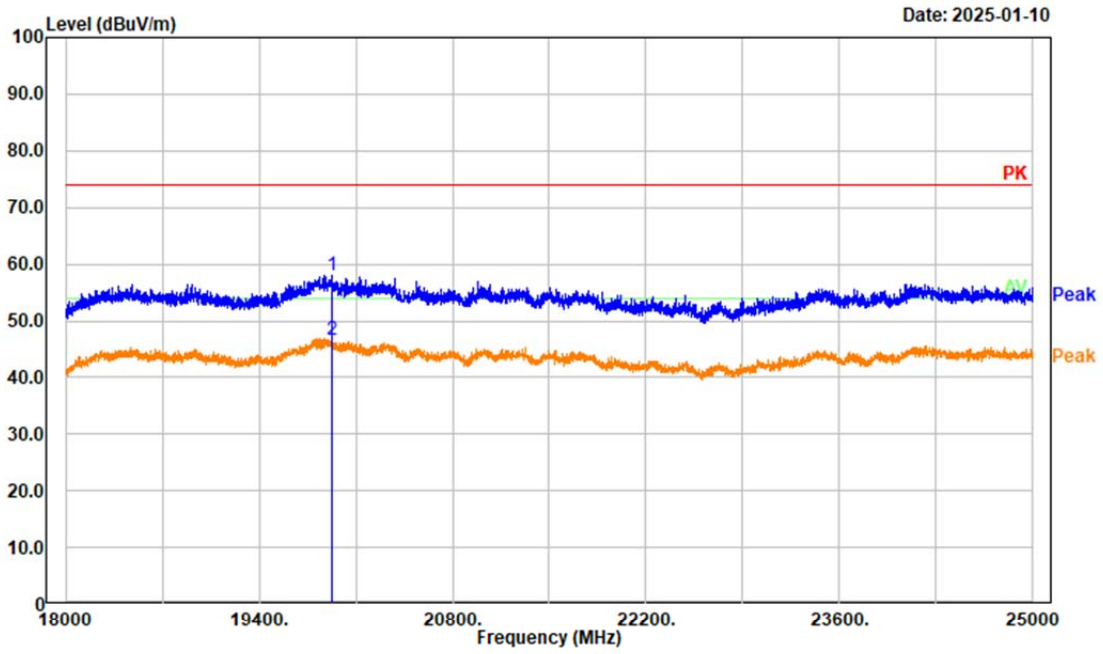

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 7440.000 | 34.34 | 11.47 | 45.81 | 74.00 | 28.19 | Peak |
| 2 | 7440.000 | 21.63 | 11.47 | 33.10 | 54.00 | 20.90 | Average |
| 3 | 17724.000 | 34.28 | 25.87 | 60.15 | 74.00 | 13.85 | Peak |
| 4 | 17724.000 | 21.87 | 25.87 | 47.74 | 54.00 | 6.26 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: vertical
       Note: BDR High Channel 2480MHz
```



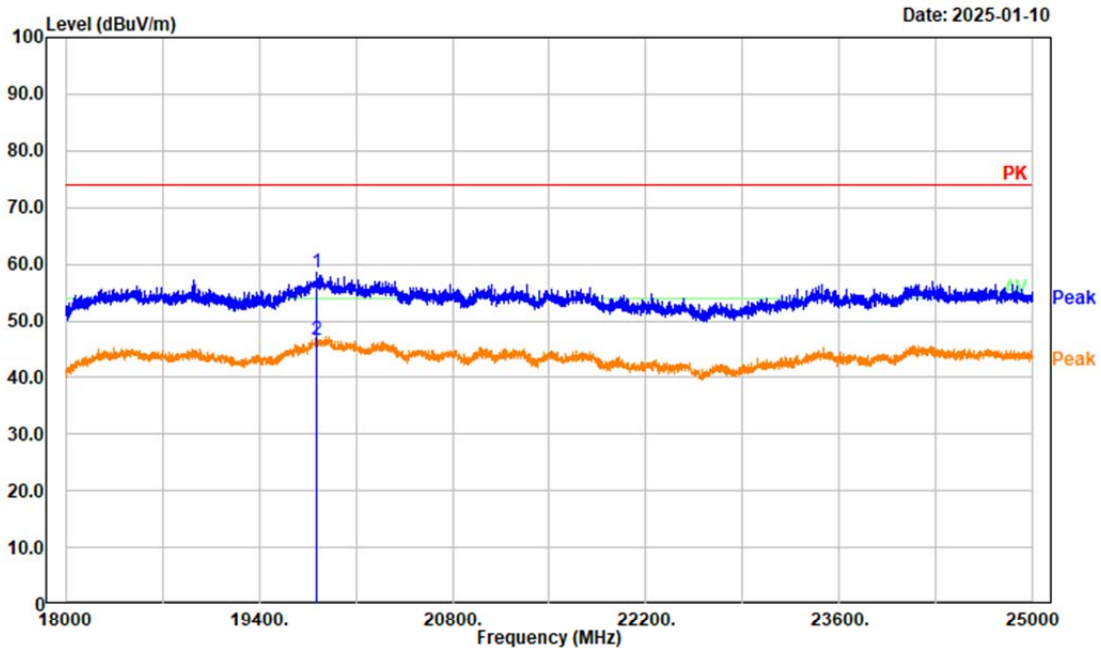

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 7440.000 | 33.60 | 11.47 | 45.07 | 74.00 | 28.93 | Peak |
| 2 | 7440.000 | 21.89 | 11.47 | 33.36 | 54.00 | 20.64 | Average |
| 3 | 17709.600 | 33.91 | 25.89 | 59.80 | 74.00 | 14.20 | Peak |
| 4 | 17709.600 | 21.36 | 25.89 | 47.25 | 54.00 | 6.75 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: Horizontal
       Note: BDR High Channel 2480MHz
```



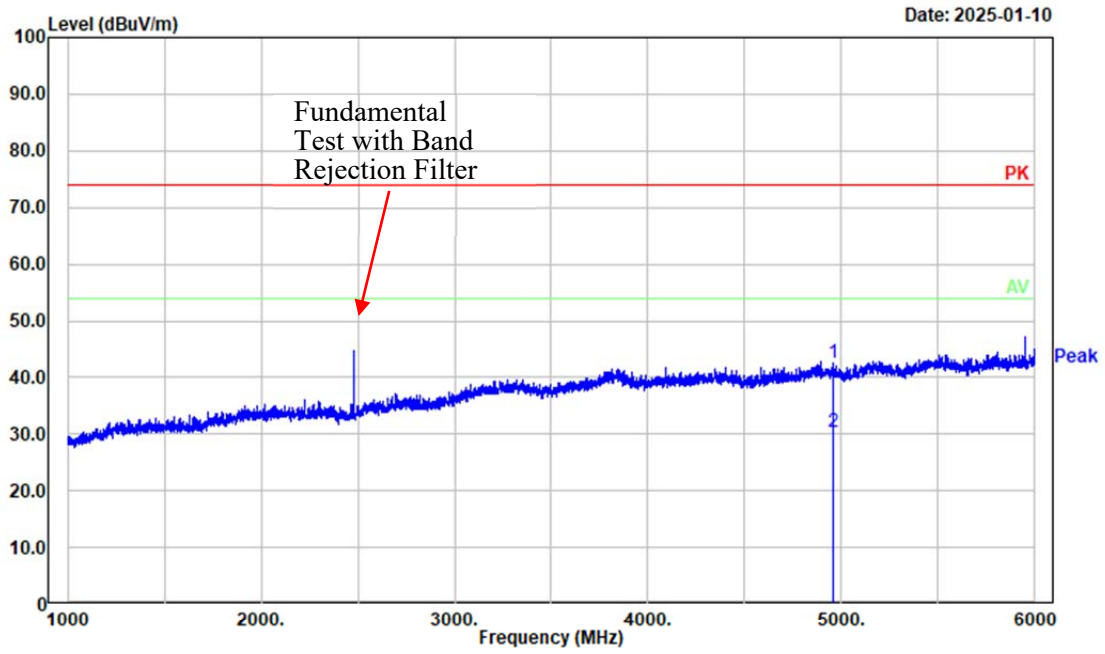

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 19926.400 | 50.19 | 7.84 | 58.03 | 74.00 | 15.97 | Peak |
| 2 | 19926.400 | 38.68 | 7.84 | 46.52 | 54.00 | 7.48 | Average |

Project No.: 2403Z104805E-RF
Tester: Tao Zhu
Condition: RBW:1000 kHz VBW:3000 kHz SWT:0.3 sec
Polarization: vertical
Note: BDR High Channel 2480MHz



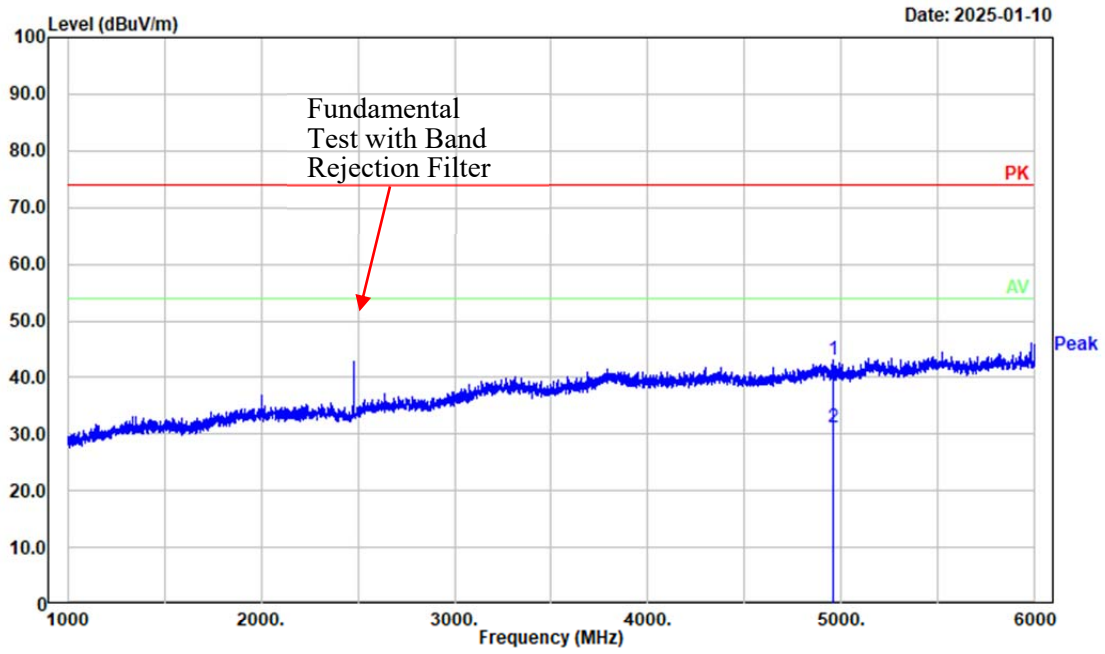

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 19818.600 | 50.59 | 7.95 | 58.54 | 74.00 | 15.46 | Peak |
| 2 | 19818.600 | 38.57 | 7.95 | 46.52 | 54.00 | 7.48 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: horizontal
       Note: EDR High Channel 2480MHz
```



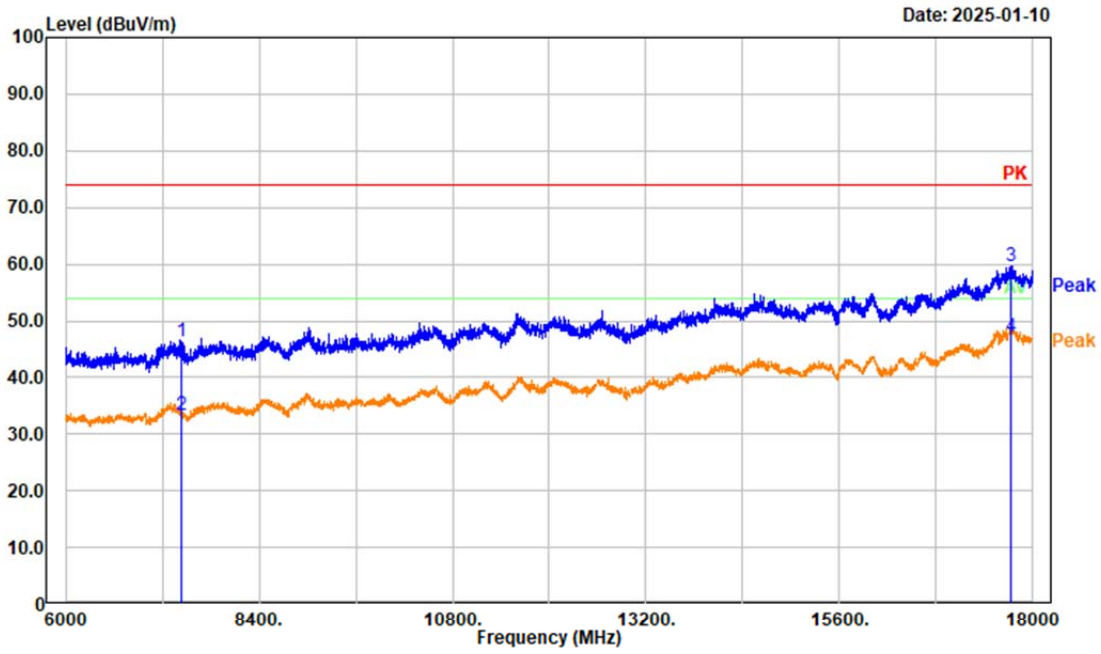

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 4960.000 | 33.70 | 8.80 | 42.50 | 74.00 | 31.50 | Peak |
| 2 | 4960.000 | 21.51 | 8.80 | 30.31 | 54.00 | 23.69 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: vertical
       Note: EDR High Channel 2480MHz
```



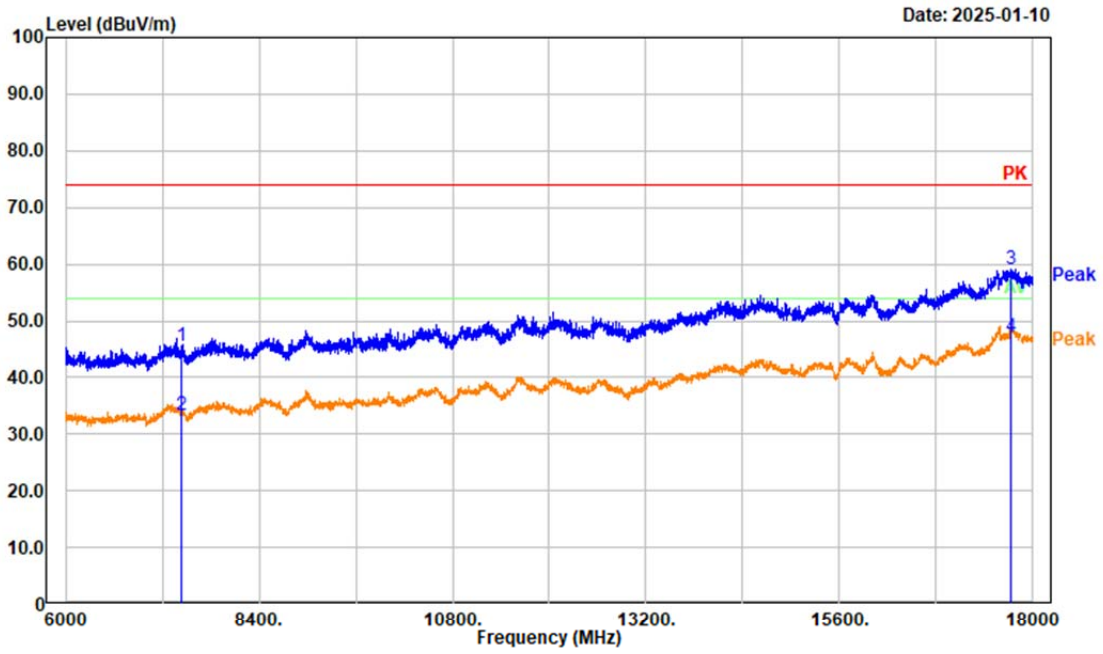

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 4960.000 | 34.29 | 8.80 | 43.09 | 74.00 | 30.91 | Peak |
| 2 | 4960.000 | 22.40 | 8.80 | 31.20 | 54.00 | 22.80 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: horizontal
       Note: EDR High Channel 2480MHz
```



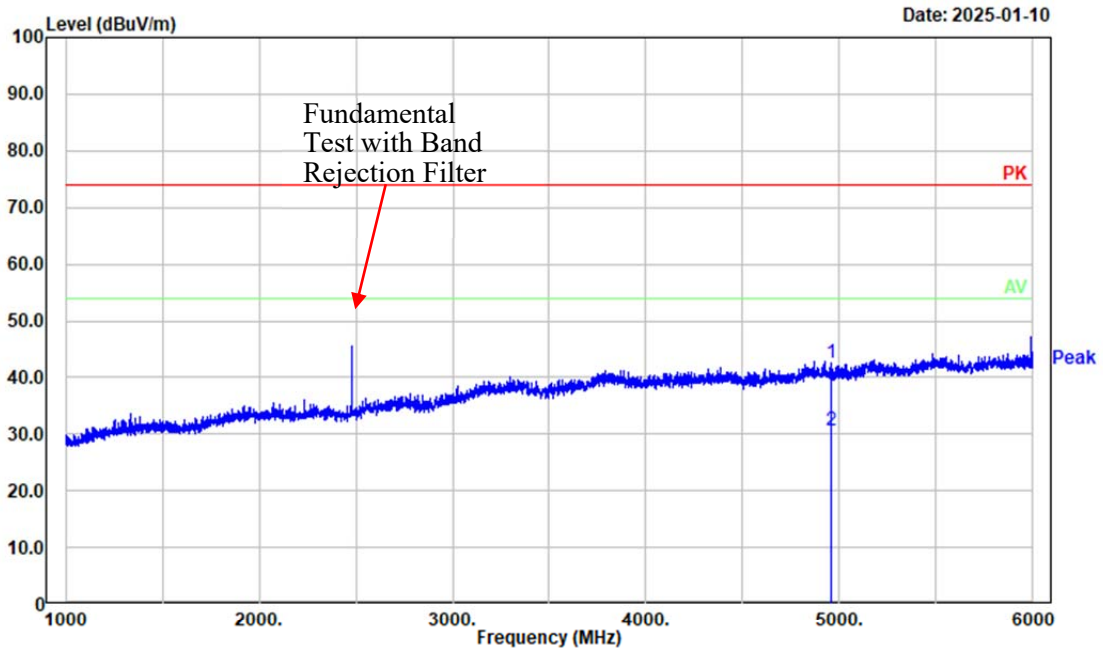

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 7440.000 | 34.80 | 11.47 | 46.27 | 74.00 | 27.73 | Peak |
| 2 | 7440.000 | 21.78 | 11.47 | 33.25 | 54.00 | 20.75 | Average |
| 3 | 17719.200 | 33.79 | 25.89 | 59.68 | 74.00 | 14.32 | Peak |
| 4 | 17719.200 | 21.37 | 25.89 | 47.26 | 54.00 | 6.74 | Average |

Project No.: 2403Z104805E-RF
Tester: Tao Zhu
Condition: RBW:1000 kHz VBW:3000 kHz SWT:0.3 sec
Polarization: vertical
Note: EDR High Channel 2480MHz



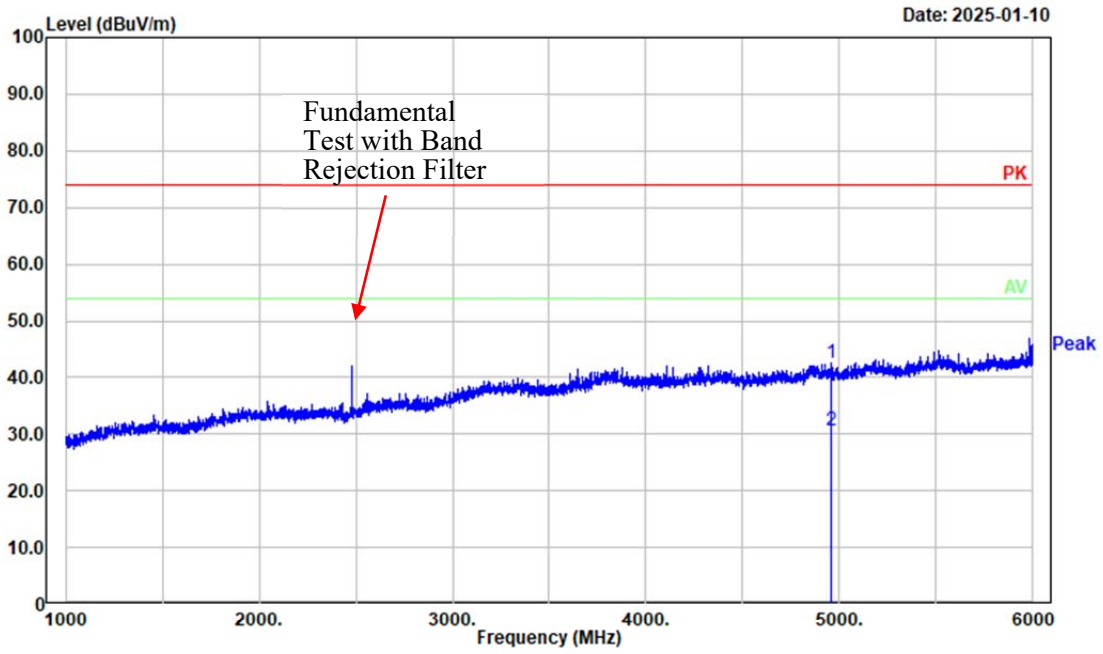

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 7440.000 | 34.10 | 11.47 | 45.57 | 74.00 | 28.43 | Peak |
| 2 | 7440.000 | 21.87 | 11.47 | 33.34 | 54.00 | 20.66 | Average |
| 3 | 17719.200 | 33.28 | 25.89 | 59.17 | 74.00 | 14.83 | Peak |
| 4 | 17719.200 | 21.39 | 25.89 | 47.28 | 54.00 | 6.72 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: horizontal
       Note: 2EDR High Channel 2480MHz
```



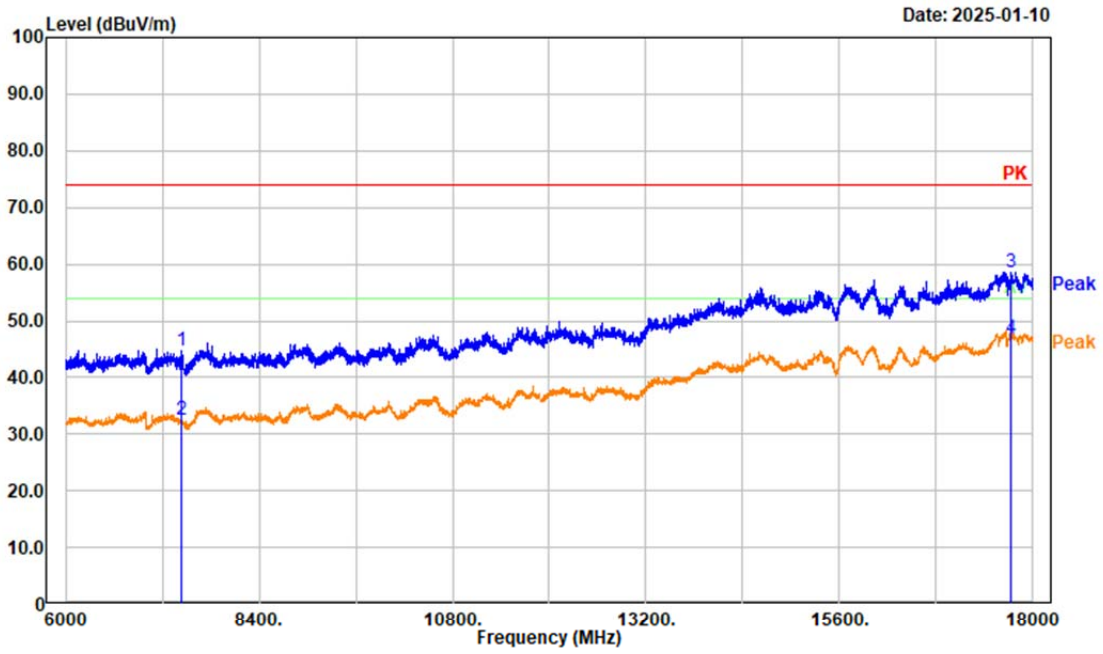

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 4960.000 | 33.64 | 8.80 | 42.44 | 74.00 | 31.56 | Peak |
| 2 | 4960.000 | 21.72 | 8.80 | 30.52 | 54.00 | 23.48 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: vertical
       Note: 2EDR High Channel 2480MHz
```



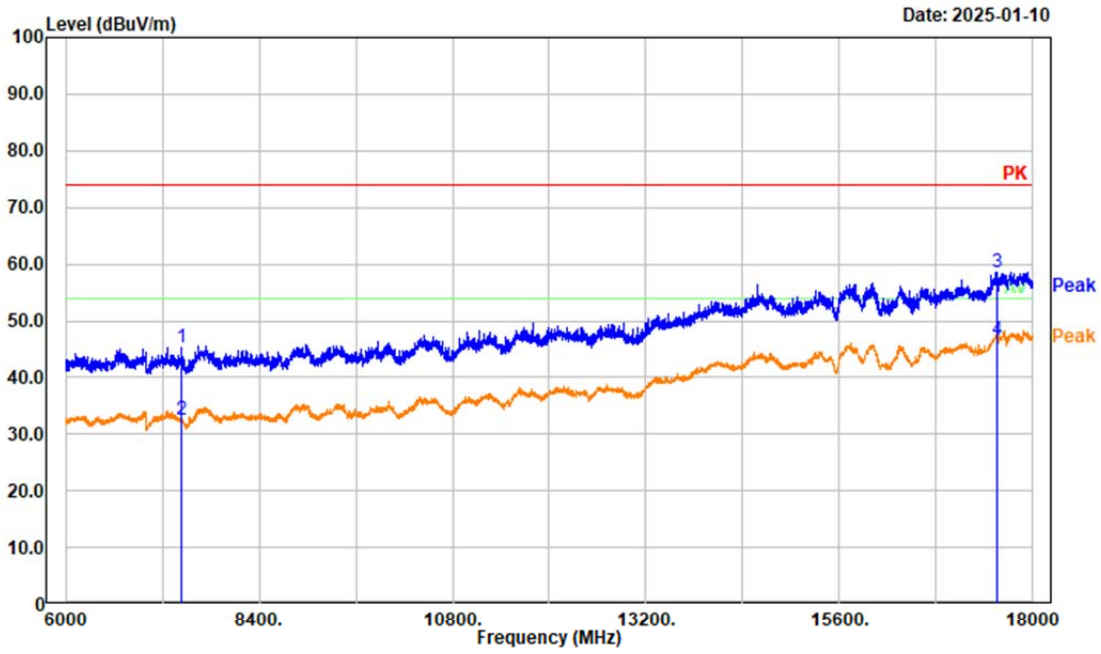

| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 4960.000 | 33.79 | 8.80 | 42.59 | 74.00 | 31.41 | Peak |
| 2 | 4960.000 | 21.74 | 8.80 | 30.54 | 54.00 | 23.46 | Average |

```
Project No.: 2403Z104805E-RF
     Tester: Tao Zhu
  Condition: RBW:1000 kHz  VBW:3000 kHz  SWT:0.3  sec
Polarization: horizontal
       Note: 2EDR High Channel 2480MHz
```




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 7440.000 | 33.35 | 11.47 | 44.82 | 74.00 | 29.18 | Peak |
| 2 | 7440.000 | 21.08 | 11.47 | 32.55 | 54.00 | 21.45 | Average |
| 3 | 17719.200 | 32.73 | 25.89 | 58.62 | 74.00 | 15.38 | Peak |
| 4 | 17719.200 | 20.89 | 25.89 | 46.78 | 54.00 | 7.22 | Average |

Project No.: 2403Z104805E-RF
Tester: Tao Zhu
Condition: RBW:1000 kHz VBW:3000 kHz SWT:0.3 sec
Polarization: vertical
Note: 2EDR High Channel 2480MHz




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 7440.000 | 33.71 | 11.47 | 45.18 | 74.00 | 28.82 | Peak |
| 2 | 7440.000 | 21.11 | 11.47 | 32.58 | 54.00 | 21.42 | Average |
| 3 | 17560.800 | 34.81 | 23.79 | 58.60 | 74.00 | 15.40 | Peak |
| 4 | 17560.800 | 22.72 | 23.79 | 46.51 | 54.00 | 7.49 | Average |

## 4.3 RF Conducted Data

Please refer to Annex "2403Z104805E-RF-00B Appendix A" for detail test data.

# 5. RF EXPOSURE EVALUATION

## 5.1 Applicable Standard

According to§15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
• f(GHz) is the RF channel transmit frequency in GHz
• Power and distance are rounded to the nearest mW and mm before calculation
• The result is rounded to one decimal place for comparison
• 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

## 5.2 Measurement Result

| Frequency (MHz) | Conducted Output Power Including Tolerance | | Distance (mm) | Calculated value | Threshold (1-g) | SAR Test Exclusion |
|---|---|---|---|---|---|---|
| | (dBm) | (mW) | | | | |
| 2402-2480 | 7 | 5.01 | 5 | 1.6 | 3 | Yes |

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: Compliant. The stand-alone SAR evaluation is not necessary.

# 6. EUT PHOTOGRAPHS

Please refer to the attachment 2403Z104805E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2403Z104805E-RF-INP EUT INTERNAL PHOTOGRAPHS

# 7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2403Z104805E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

**===== END OF REPORT =====**