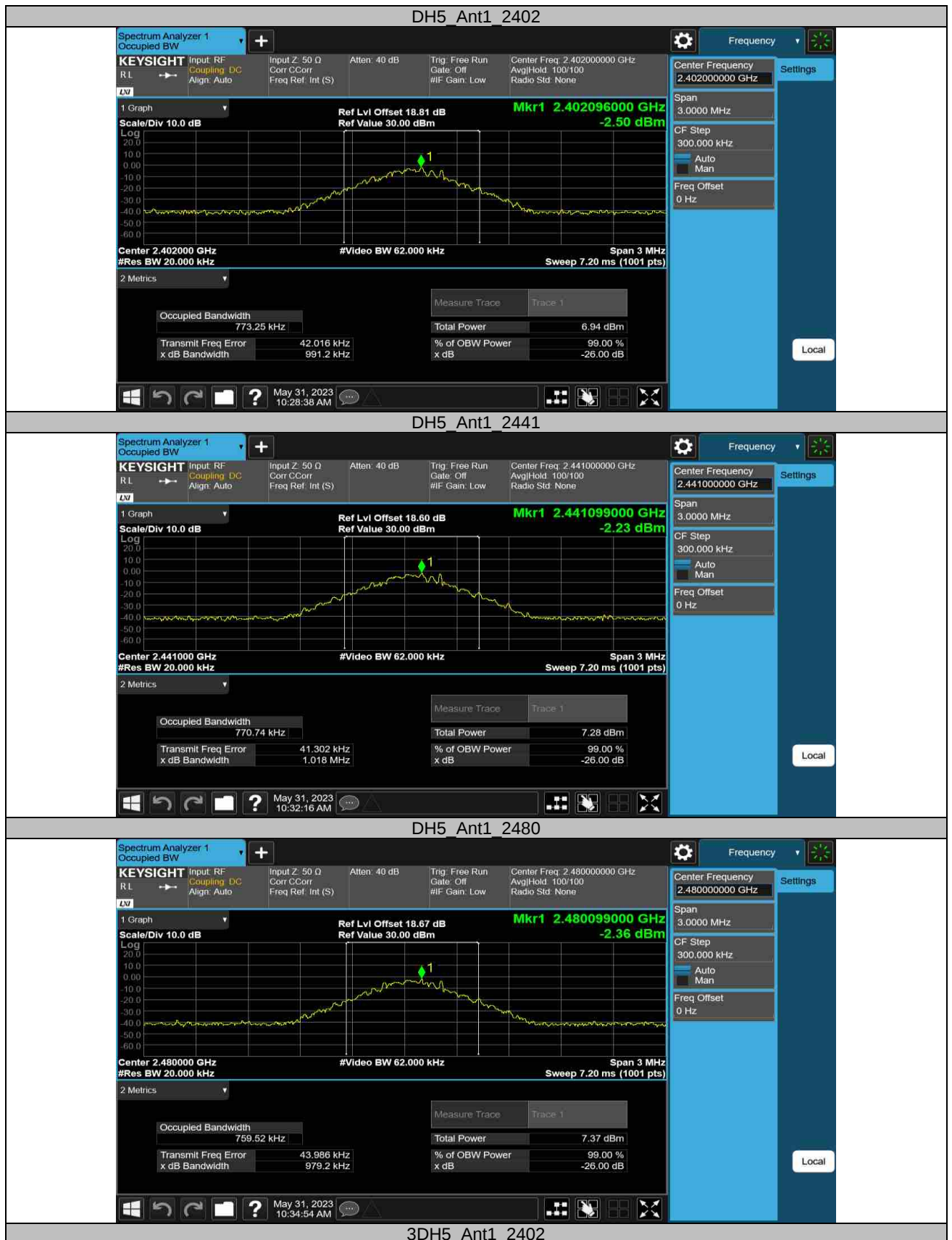


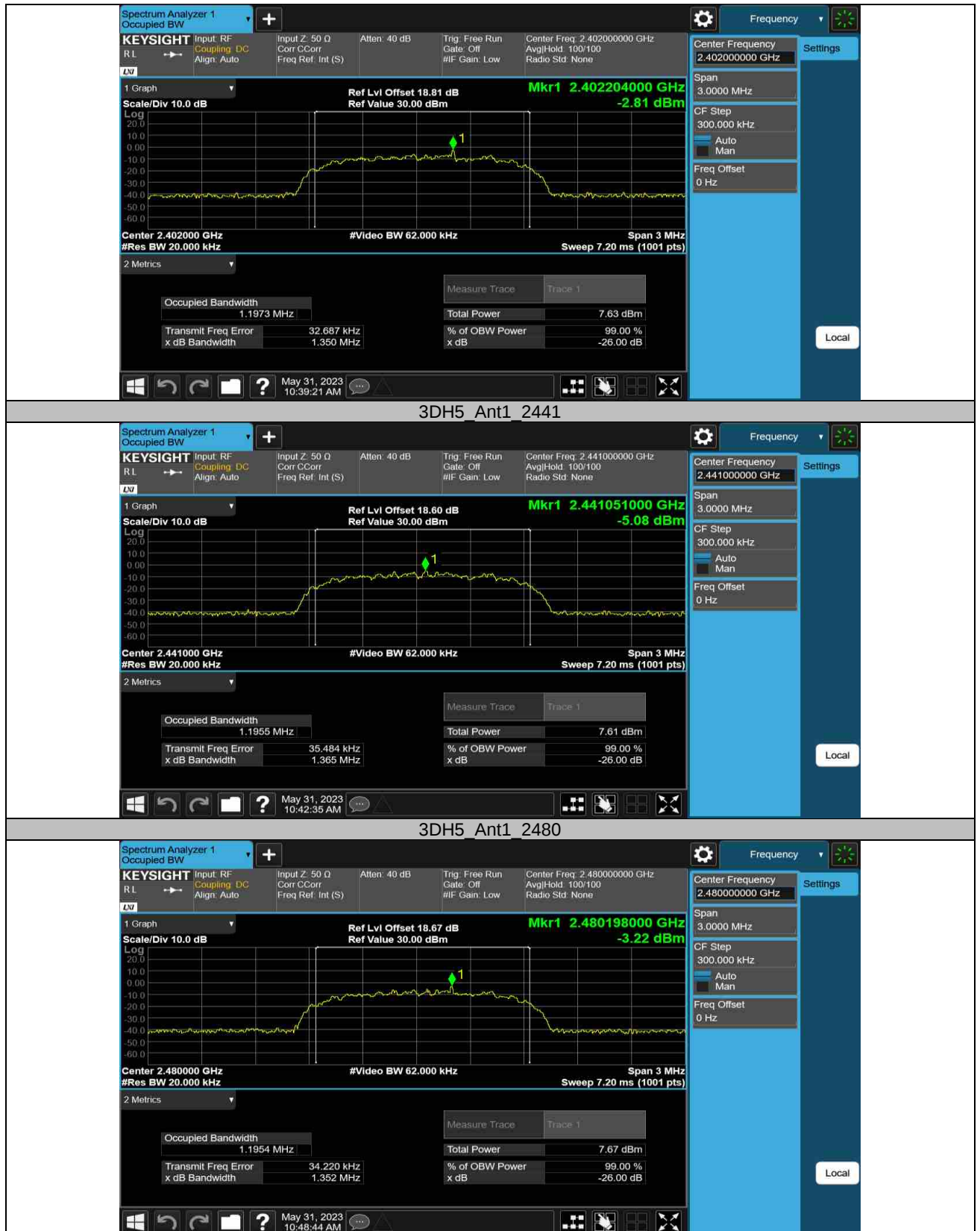
## Appendix A: Test Results of Bluetooth BR & EDR mode

|                                                                                                |    |
|------------------------------------------------------------------------------------------------|----|
| APPENDIX A: TEST RESULTS OF BLUETOOTH BR & EDR MODE .....                                      | 1  |
| APPENDIX A.1: TEST RESULTS OF 99% BANDWIDTH.....                                               | 2  |
| APPENDIX A.2: TEST RESULTS OF 20dB BANDWIDTH .....                                             | 5  |
| APPENDIX A.3: TEST RESULTS OF CARRIER FREQUENCY SEPARATION .....                               | 8  |
| APPENDIX A.4: TEST RESULTS OF NUMBER OF HOPPING FREQUENCY .....                                | 9  |
| APPENDIX A.5: TEST RESULTS OF TIME OF OCCUPANCY.....                                           | 10 |
| APPENDIX A.6: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH ..... | 15 |
| <i>Band Edge</i> .....                                                                         | 15 |
| <i>Conducted Spurious Emission</i> .....                                                       | 18 |
| APPENDIX A.7: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS .....                                | 25 |
| 30 MHz - 1GHz.....                                                                             | 25 |
| 1GHz - 18GHz.....                                                                              | 27 |
| APPENDIX A.8: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....                      | 39 |
| APPENDIX A.9: TEST RESULTS OF CONDUCTED EMISSION .....                                         | 44 |

## Appendix A.1: Test Results of 99% Bandwidth

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.77325   | 2401.6554 | 2402.4286 | ---        | PASS    |
|          |         | 2441    | 0.77074   | 2440.6559 | 2441.4267 | ---        | PASS    |
|          |         | 2480    | 0.75952   | 2479.6642 | 2480.4238 | ---        | PASS    |
| 3DH5     | Ant1    | 2402    | 1.1973    | 2401.4340 | 2402.6313 | ---        | PASS    |
|          |         | 2441    | 1.1955    | 2440.4377 | 2441.6332 | ---        | PASS    |
|          |         | 2480    | 1.1954    | 2479.4365 | 2480.6319 | ---        | PASS    |

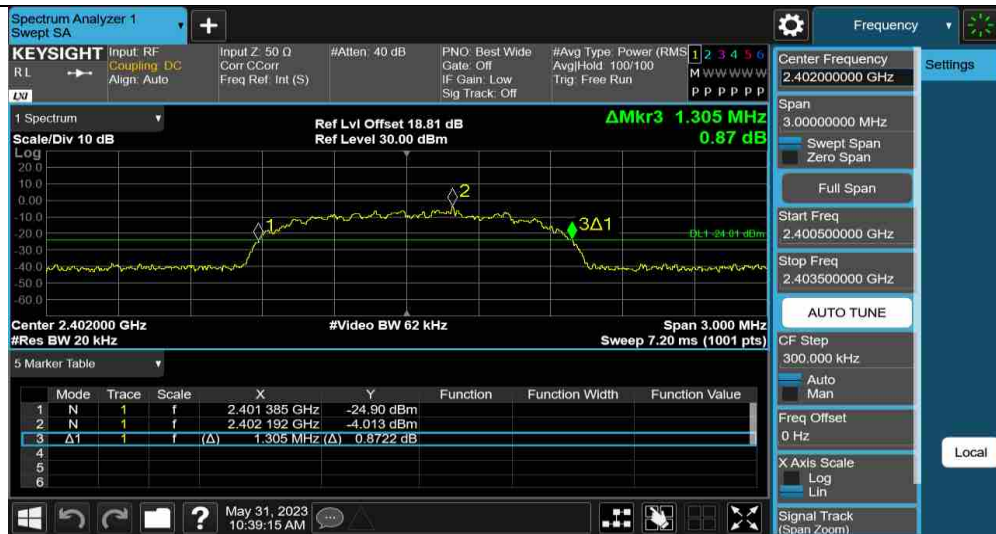




## Appendix A.2: Test Results of 20dB Bandwidth

| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|---------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.804         | 2401.637 | 2402.441 | ---        | PASS    |
|          |         | 2441    | 0.852         | 2440.592 | 2441.444 | ---        | PASS    |
|          |         | 2480    | 0.849         | 2479.595 | 2480.444 | ---        | PASS    |
| 3DH5     | Ant1    | 2402    | 1.305         | 2401.385 | 2402.690 | ---        | PASS    |
|          |         | 2441    | 1.329         | 2440.373 | 2441.702 | ---        | PASS    |
|          |         | 2480    | 1.290         | 2479.388 | 2480.678 | ---        | PASS    |





3DH5 Ant1 2441



3DH5 Ant1 2480



### Appendix A.3: Test Results of Carrier Frequency Separation

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 0.846       | ≥0.568     | PASS    |
| 3DH5     | Ant1    | Hop     | 1.206       | ≥0.886     | PASS    |



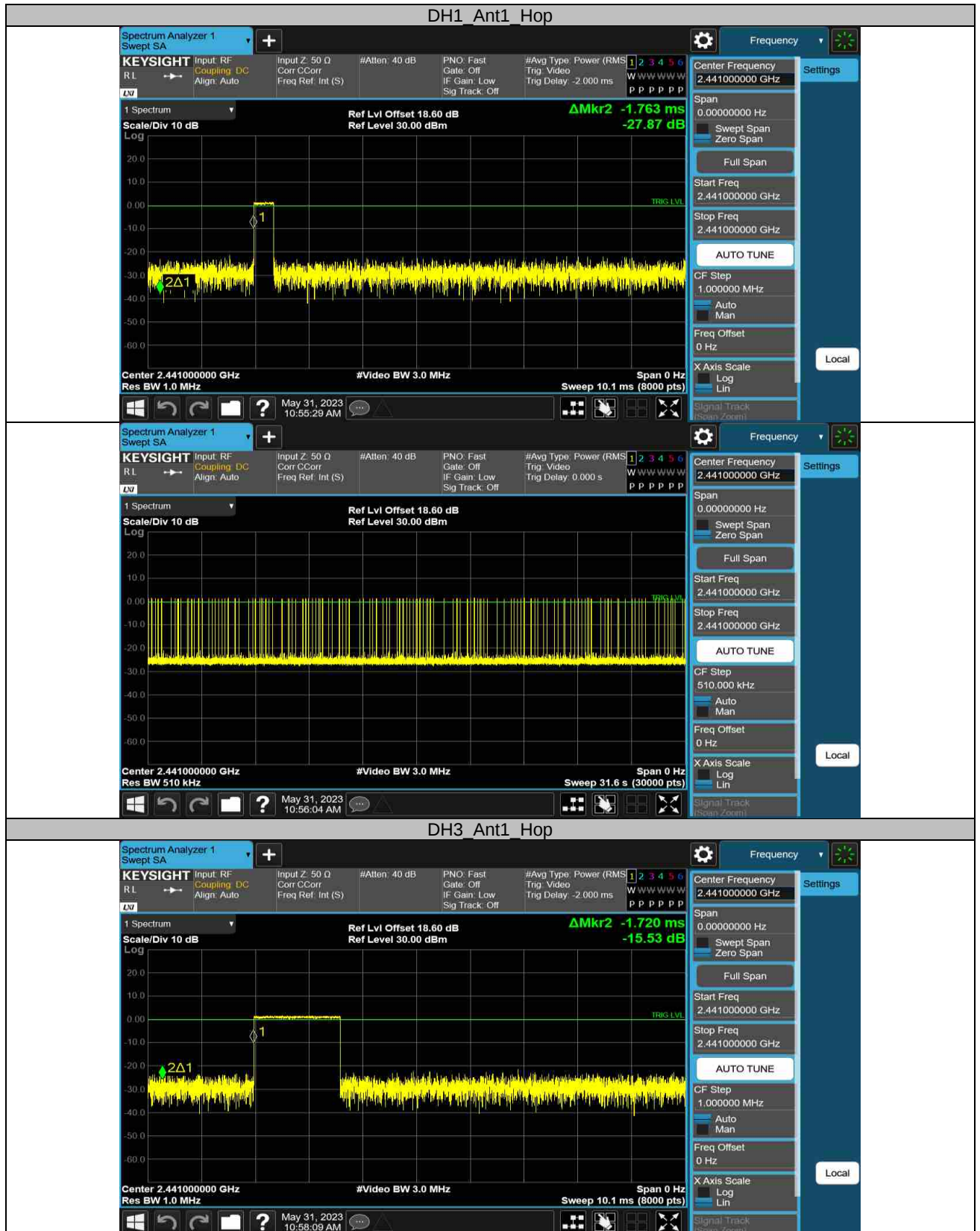
## Appendix A.4: Test Results of Number of Hopping Frequency

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |



## Appendix A.5: Test Results of Time of Occupancy

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop     | -1.763             | 158                | -0.279    | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop     | -1.720             | 164                | -0.282    | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop     | -1.150             | 80                 | -0.092    | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop     | 0.381              | 166                | 0.063     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop     | -0.880             | 163                | -0.143    | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop     | -1.364             | 85                 | -0.116    | ≤0.4     | PASS    |







3DH3\_Ant1\_Hop

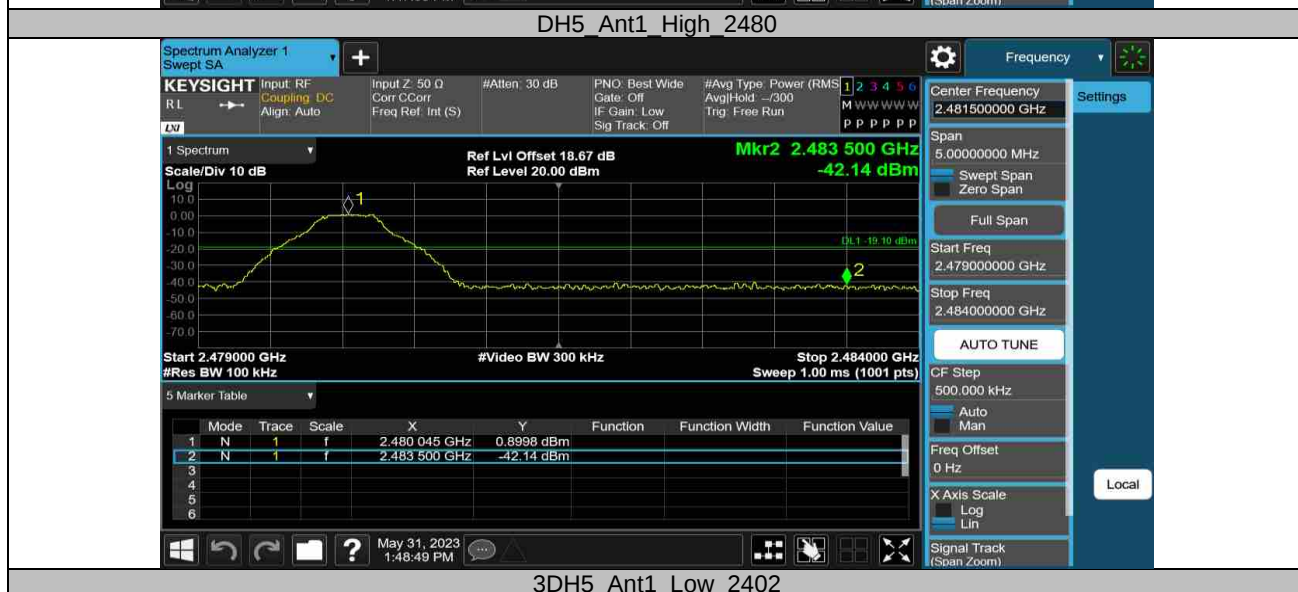
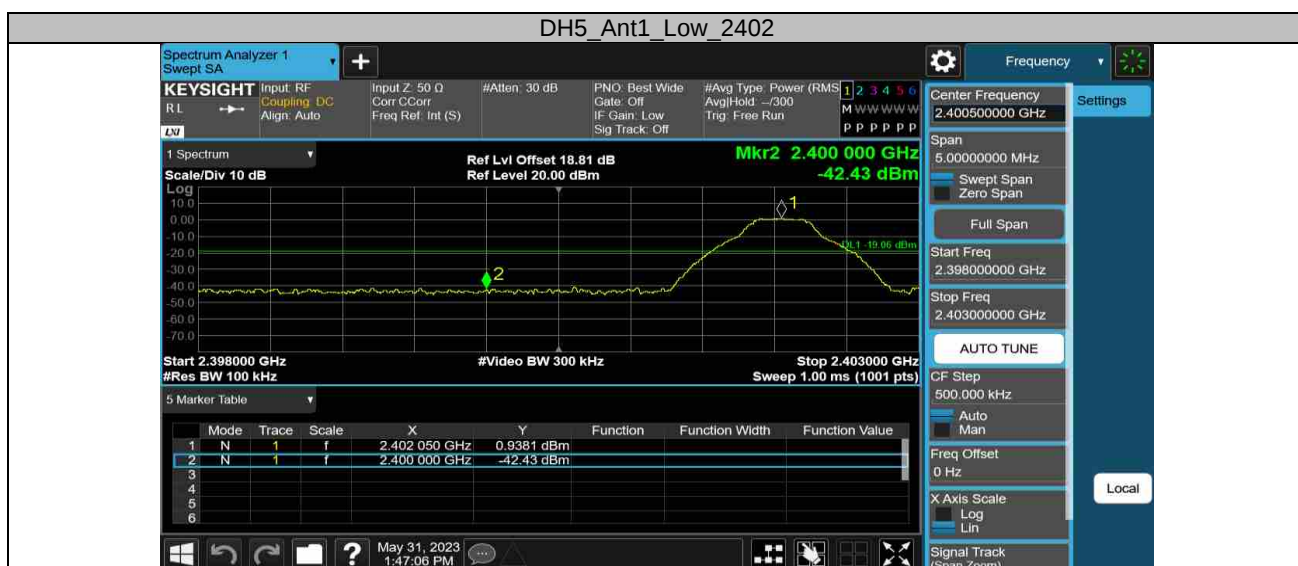


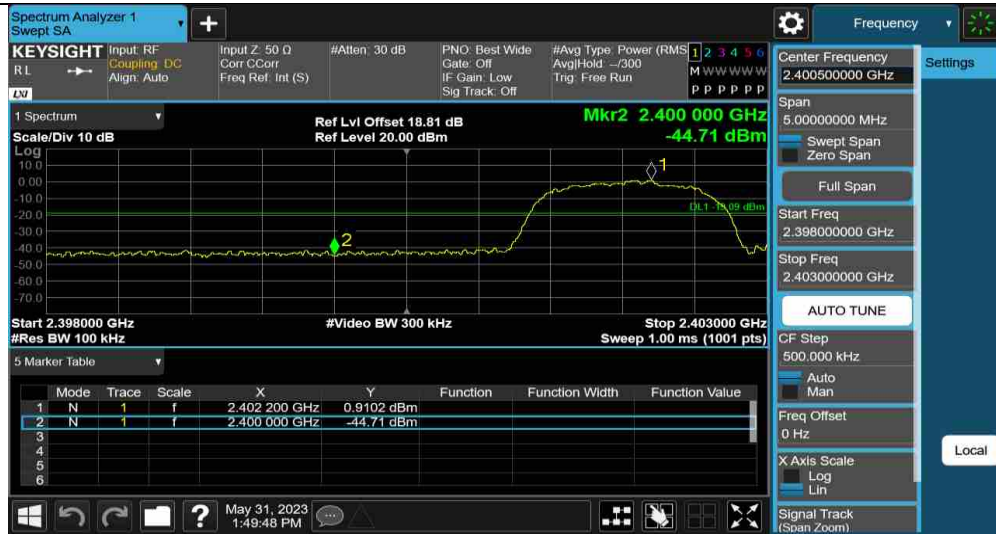


## Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

### Band Edge

| TestMode | Antenna | ChName  | Channel | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|---------|---------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low     | 2402    | 0.94           | -42.43       | ≤-19.36     | PASS    |
| DH5      | Ant1    | High    | 2480    | 0.90           | -42.14       | ≤-19.10     | PASS    |
| 3DH5     | Ant1    | Low     | 2402    | 0.91           | -44.71       | ≤-19.09     | PASS    |
| 3DH5     | Ant1    | High    | 2480    | 0.85           | -42.82       | ≤-19.15     | PASS    |
| DH5      | Ant1    | Hopping | 2402    | 0.35           | -43.87       | ≤-19.56     | PASS    |
| DH5      | Ant1    | Hopping | 2480    | 0.73           | -44.13       | ≤-19.27     | PASS    |
| 3DH5     | Ant1    | Hopping | 2402    | -1.86          | -42.54       | ≤-21.86     | PASS    |
| 3DH5     | Ant1    | Hopping | 2480    | 0.43           | -42.51       | ≤-19.57     | PASS    |





3DH5 Ant1 High 2480



DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480



3DH5\_Ant1\_Hopping\_2402

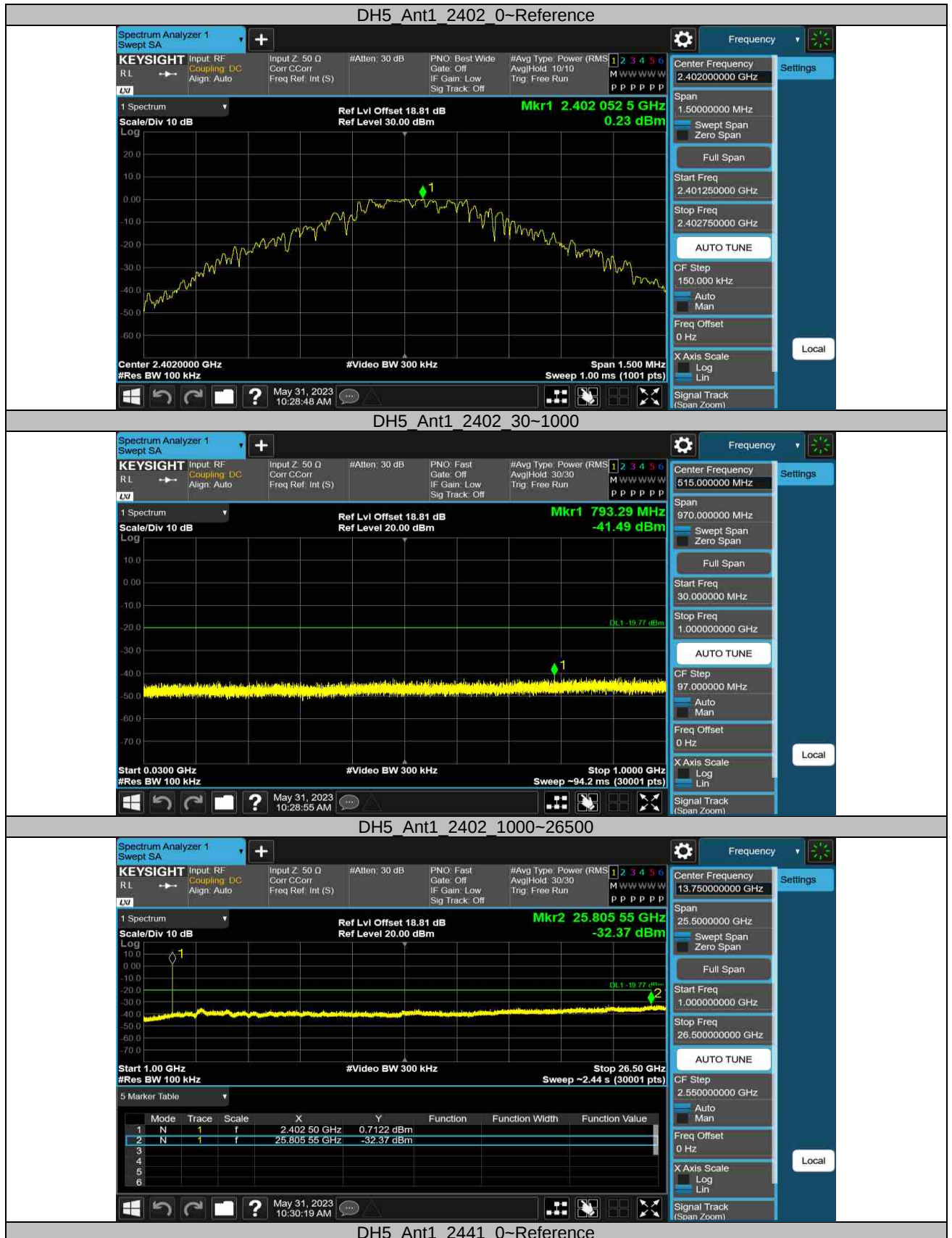


3DH5\_Ant1\_Hopping\_2480



### Conducted Spurious Emission

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | 2402    | Reference          | 0.23              | 0.23            | ---            | PASS    |
|          |         |         | 30~1000            | 0.23              | -41.5           | ≤-19.77        | PASS    |
|          |         |         | 1000~26500         | 0.23              | -32.37          | ≤-19.77        | PASS    |
|          |         | 2441    | Reference          | 0.43              | 0.43            | ---            | PASS    |
|          |         |         | 30~1000            | 0.43              | -40.27          | ≤-19.57        | PASS    |
|          |         |         | 1000~26500         | 0.43              | -31.89          | ≤-19.57        | PASS    |
|          |         | 2480    | Reference          | 0.29              | 0.29            | ---            | PASS    |
|          |         |         | 30~1000            | 0.29              | -40.91          | ≤-19.71        | PASS    |
|          |         |         | 1000~26500         | 0.29              | -32.52          | ≤-19.71        | PASS    |
| 3DH5     | Ant1    | 2402    | Reference          | -0.94             | -0.94           | ---            | PASS    |
|          |         |         | 30~1000            | -0.94             | -41.28          | ≤-20.94        | PASS    |
|          |         |         | 1000~26500         | -0.94             | -32.36          | ≤-20.94        | PASS    |
|          |         | 2441    | Reference          | -2.03             | -2.03           | ---            | PASS    |
|          |         |         | 30~1000            | -2.03             | -41.18          | ≤-22.03        | PASS    |
|          |         |         | 1000~26500         | -2.03             | -32.32          | ≤-22.03        | PASS    |
|          |         | 2480    | Reference          | -1.70             | -1.70           | ---            | PASS    |
|          |         |         | 30~1000            | -1.70             | -41.38          | ≤-21.7         | PASS    |
|          |         |         | 1000~26500         | -1.70             | -32.35          | ≤-21.7         | PASS    |





DH5\_Ant1\_2441\_30-1000



DH5\_Ant1\_2441\_1000-26500



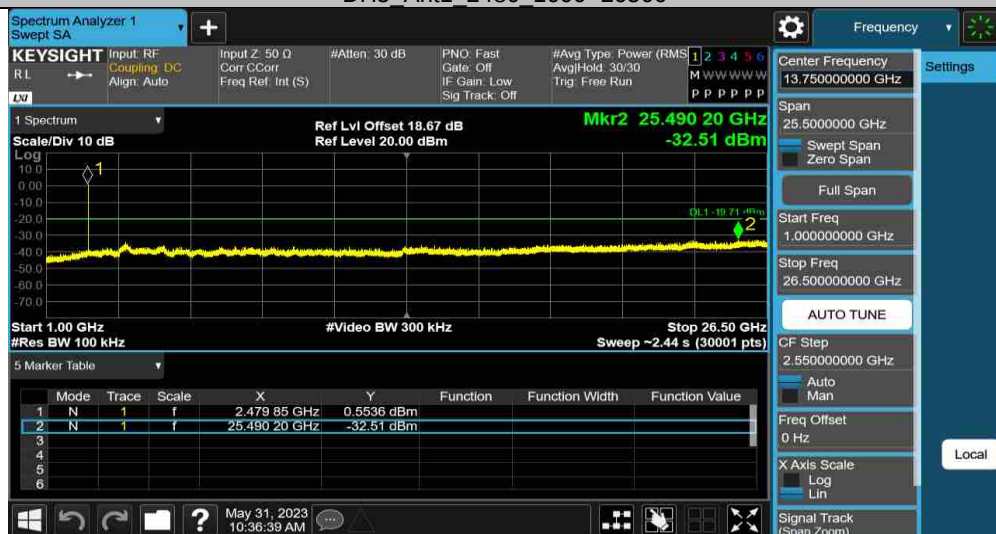
DH5\_Ant1\_2480\_0-Reference



DH5 Ant1 2480 30~1000



DH5 Ant1 2480 1000~26500



3DH5 Ant1 2402 0~Reference



3DH5\_Ant1\_2402\_30~1000



3DH5\_Ant1\_2402\_1000~26500



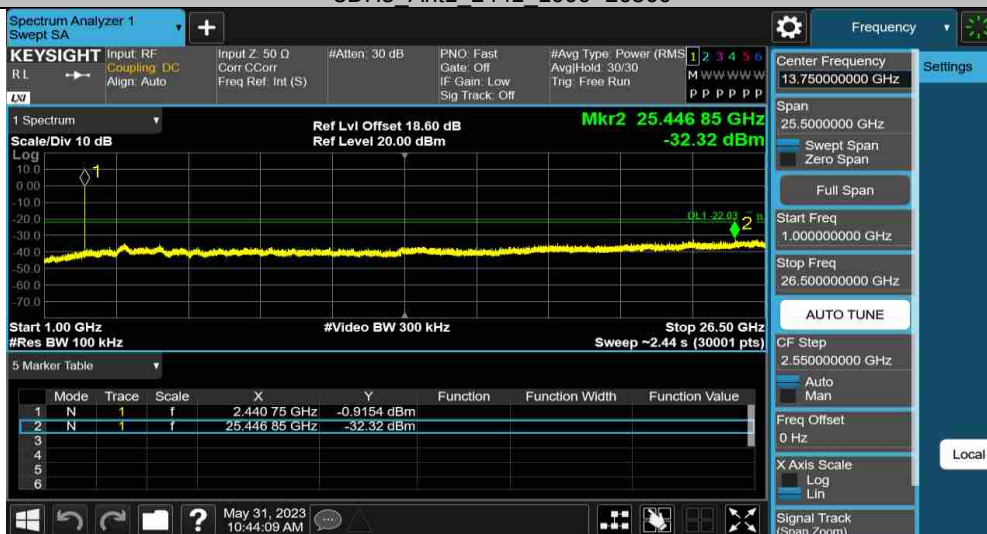
3DH5\_Ant1\_2441\_0~Reference



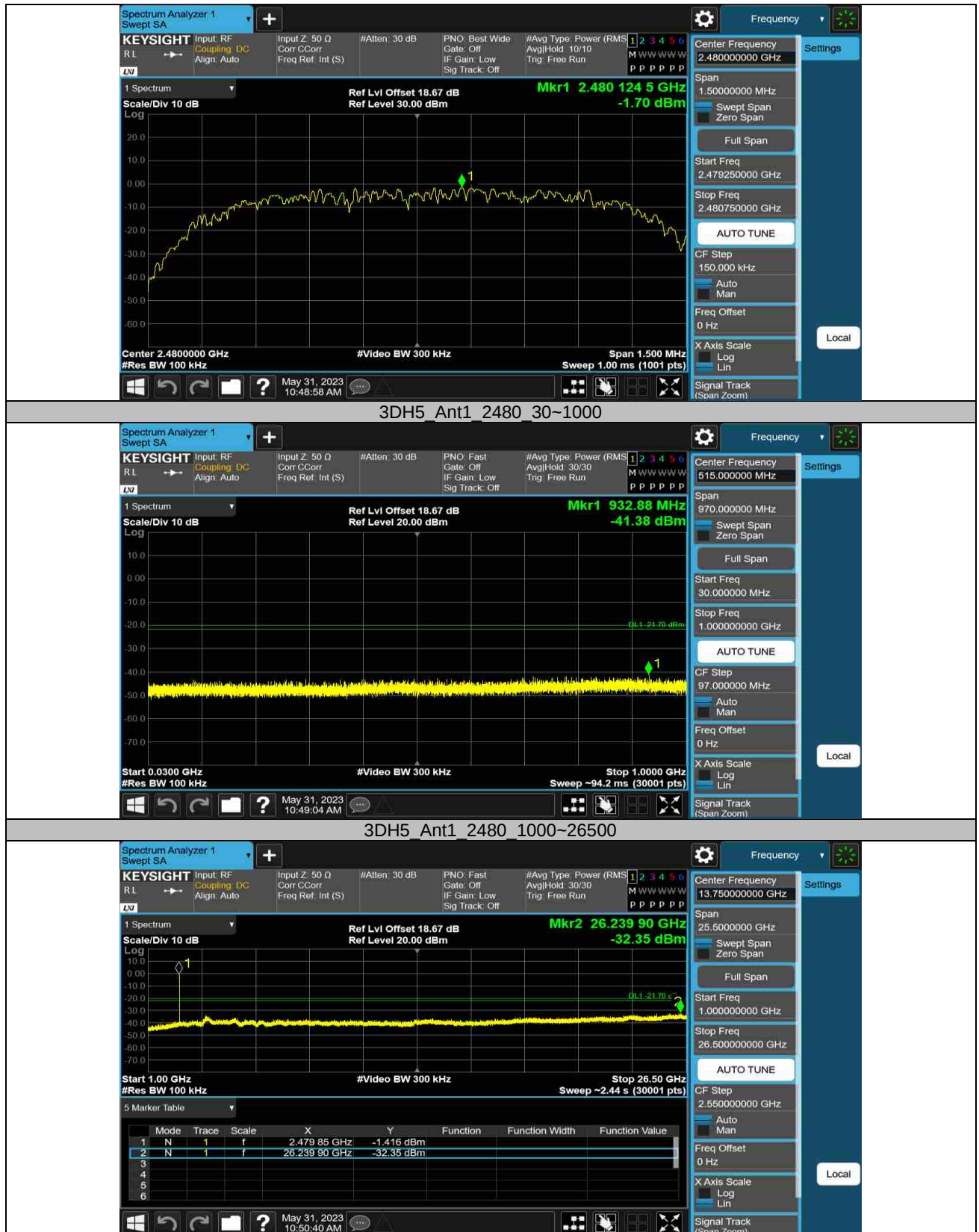
3DH5\_Ant1\_2441\_30~1000



3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference



## Appendix A.7: Test Results of Radiated Spurious Emissions

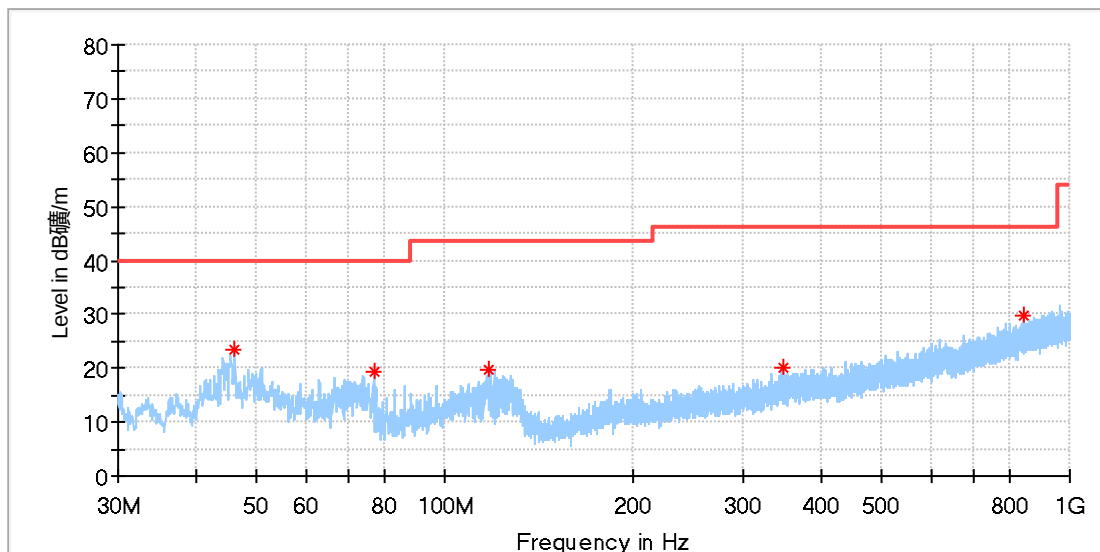
Note:

- 1) This testing was carried out on different modulations for all models, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

### 30 MHz - 1GHz

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Mid channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

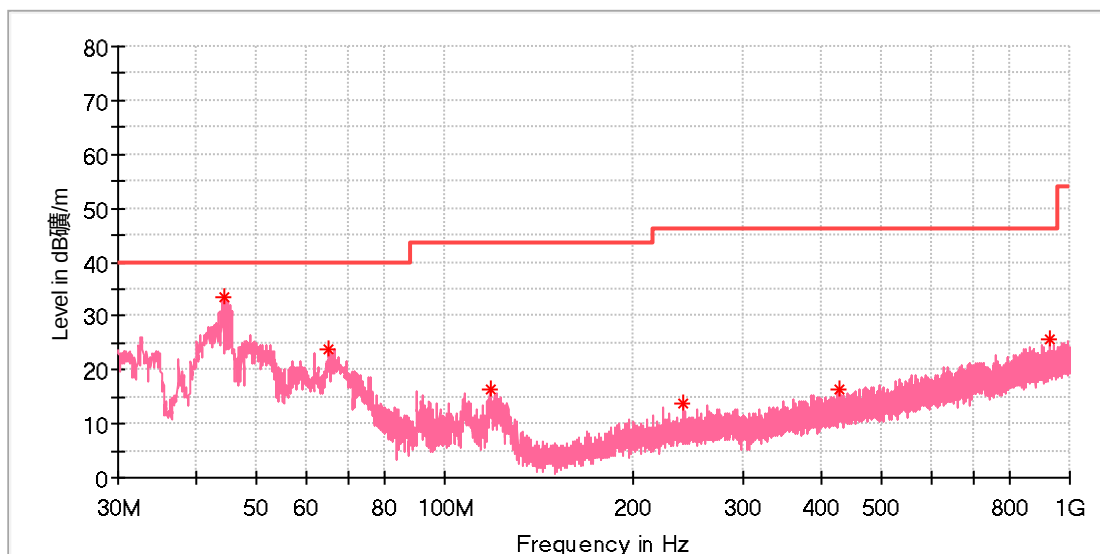
| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 46.150500       | 23.45            | 40.00          | 16.55       | 100.0       | H   | 102.0         | -18.6        |
| 76.996500       | 19.53            | 40.00          | 20.47       | 100.0       | H   | 289.0         | -23.4        |
| 117.300000      | 19.74            | 43.50          | 23.76       | 100.0       | H   | 239.0         | -20.2        |
| 348.257000      | 20.21            | 46.00          | 25.79       | 100.0       | H   | 116.0         | -14.8        |
| 841.647500      | 29.63            | 46.00          | 16.37       | 100.0       | H   | 66.0          | -5.6         |

## Final Result

| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---                | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | OPS-8195A                |
| Model:              | OPS-8195A-4R64S          |
| Test Mode:          | BR_DH5_Mid channel       |
| Order No/Sample No: | 168426958/A003490153-001 |
| Test Voltage::      | 120V/60Hz                |
| Remark:             | Temp 23 Humi:56%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 44.512692       | 33.52            | 40.00          | 6.48        | 100.0       | V   | 15.0          | -19.2        |
| 65.255769       | 23.81            | 40.00          | 16.19       | 100.0       | V   | 188.0         | -20.5        |
| 118.008846      | 16.24            | 43.50          | 27.26       | 100.0       | V   | 196.0         | -20.7        |
| 240.228846      | 13.85            | 46.00          | 32.15       | 100.0       | V   | 354.0         | -18.0        |
| 427.700000      | 16.35            | 46.00          | 29.65       | 100.0       | V   | 170.0         | -13.6        |
| 930.607692      | 25.66            | 46.00          | 20.34       | 100.0       | V   | 0.0           | -5.1         |

## Final\_Result

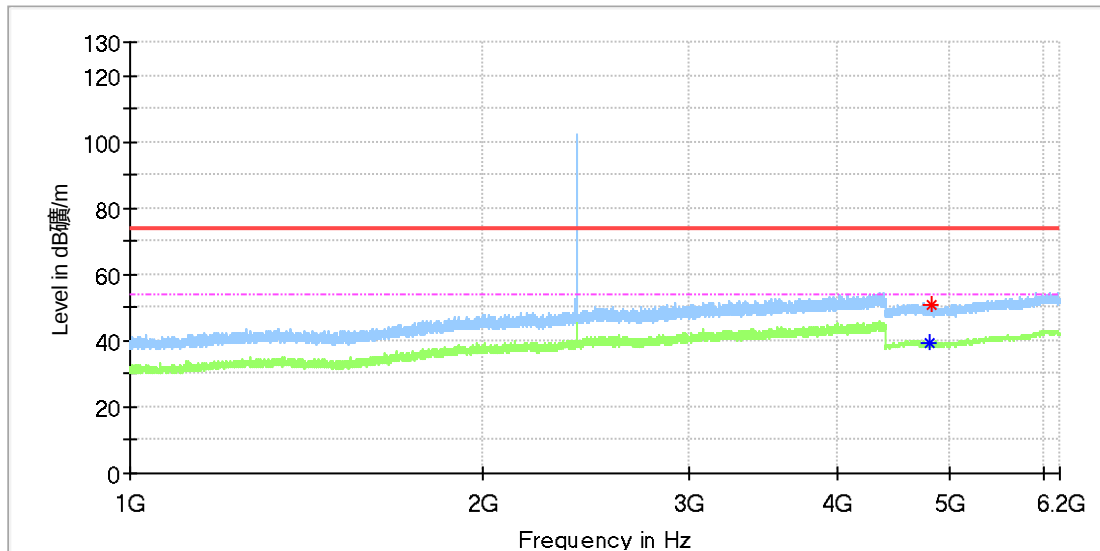
| Frequency (MHz) | QuasiPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---                | ---            | ---         | ---         |     | ---           | ---          |

## 1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | OPS-8195A                |
| Model:              | OPS-8195A-4R64S          |
| Test Mode:          | BR_DH5_Low channel       |
| Order No/Sample No: | 168426958/A003490153-001 |
| Test Voltage::      | 120V/60Hz                |
| Remark:             | Temp 23 Humi:56%         |
| Test Standard:      | FCC 15.247               |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |



## Critical\_Freqs

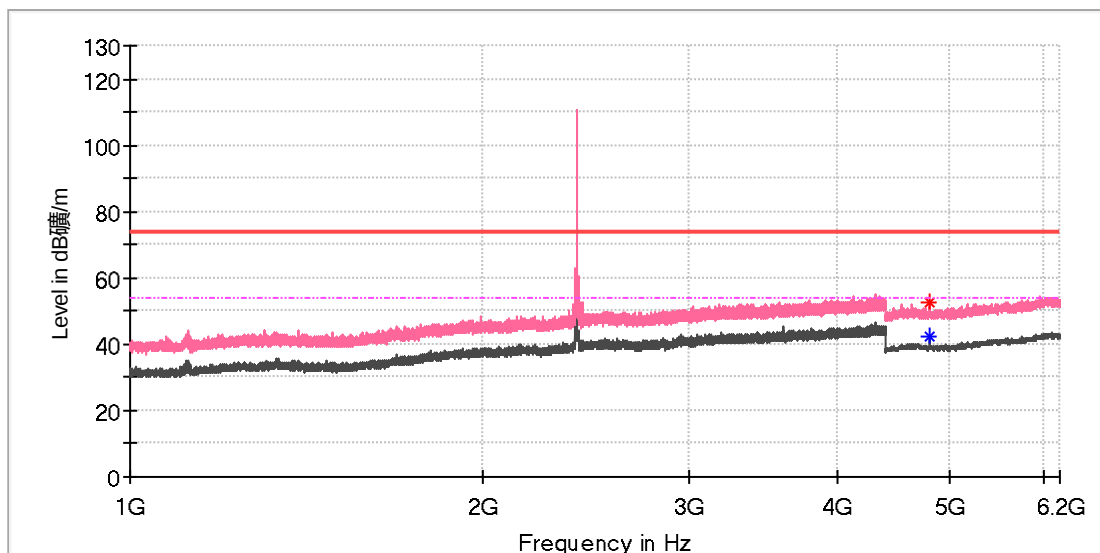
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4805.000000     | ---              | 39.31            | 54.00          | 14.69       | 150.0       | H   | 75.0          | 11.8         |
| 4811.500000     | 50.71            | ---              | 74.00          | 23.29       | 150.0       | H   | 67.0          | 11.8         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

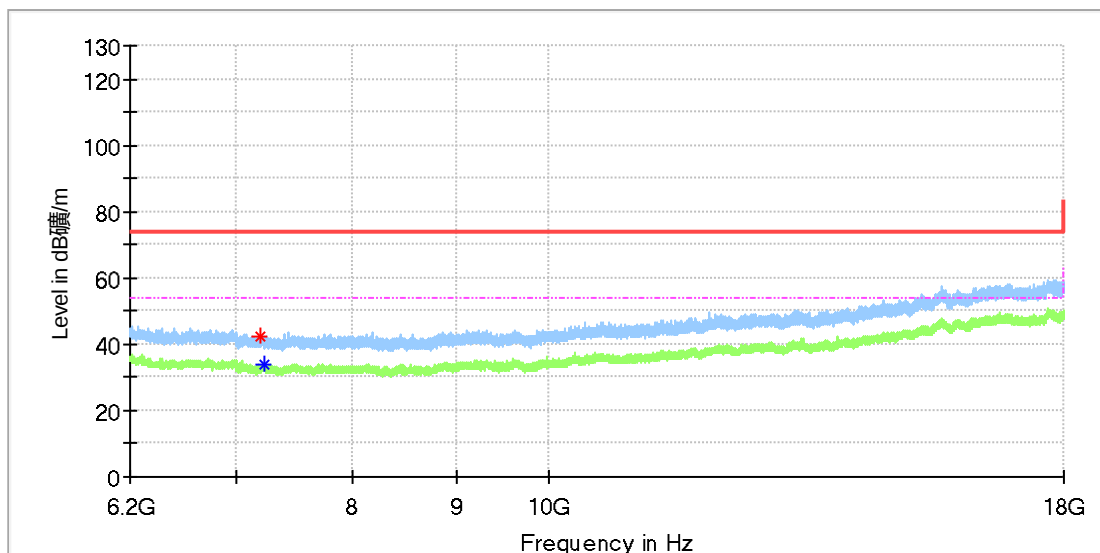
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4795.500000     | 52.58            | ---              | 74.00          | 21.42       | 150.0       | V   | 37.0          | 11.8         |
| 4804.000000     | ---              | 42.15            | 54.00          | 11.85       | 150.0       | V   | 211.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

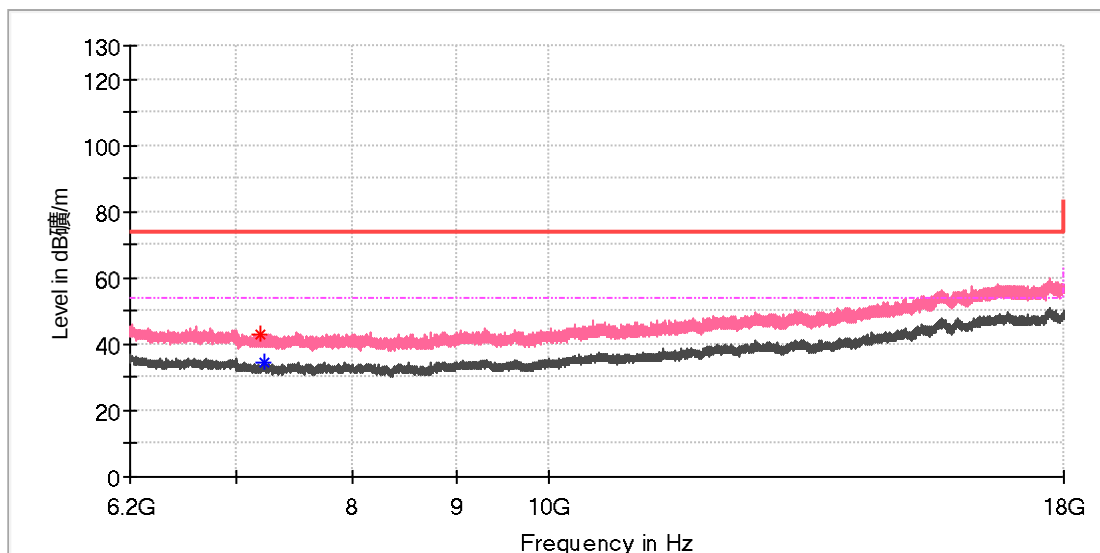
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7197.100000     | 42.18            | ---              | 74.00          | 31.82       | 150.0       | H   | 149.0         | 8.8          |
| 7229.550000     | ---              | 33.98            | 54.00          | 20.02       | 150.0       | H   | 200.0         | 8.6          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

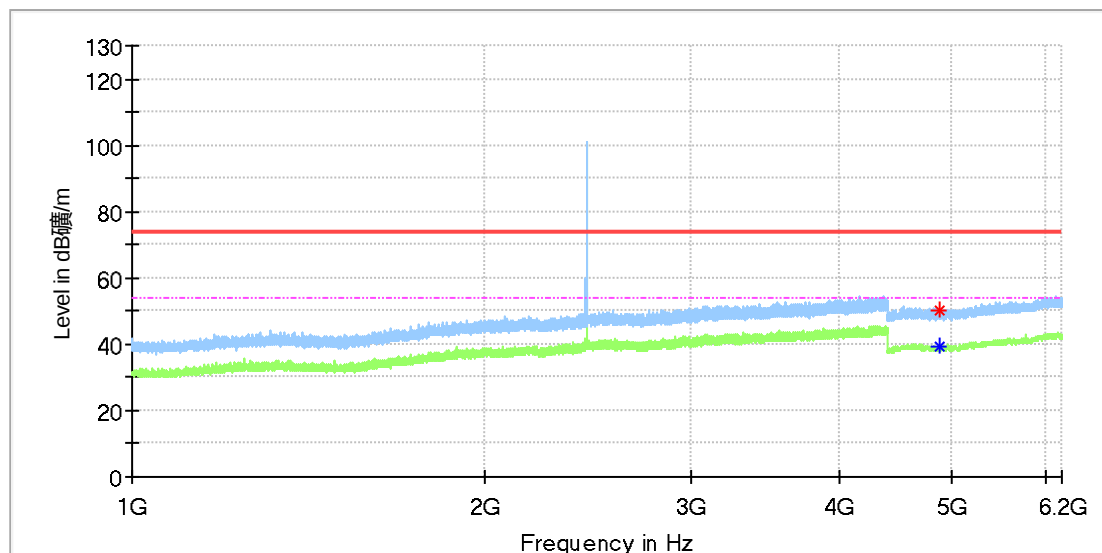
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7194.150000     | 43.02            | ---              | 74.00          | 30.98       | 150.0       | V   | 348.0         | 8.8          |
| 7222.175000     | ---              | 34.47            | 54.00          | 19.53       | 150.0       | V   | 226.0         | 8.7          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Mid channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

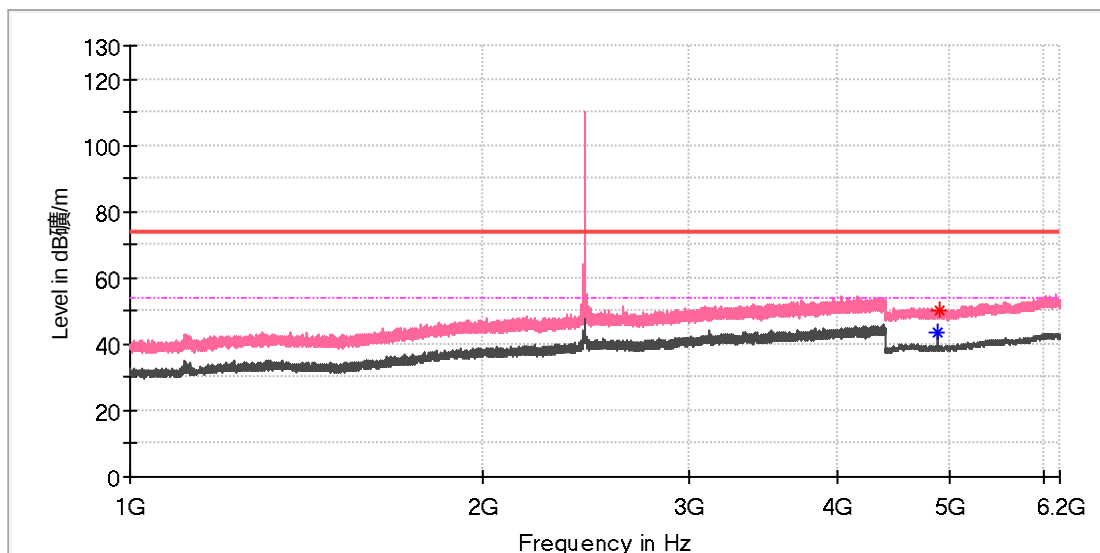
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4871.000000     | ---              | 39.26            | 54.00          | 14.74       | 150.0       | H   | 111.0         | 11.8         |
| 4884.500000     | 50.05            | ---              | 74.00          | 23.95       | 150.0       | H   | 17.0          | 11.8         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Mid channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

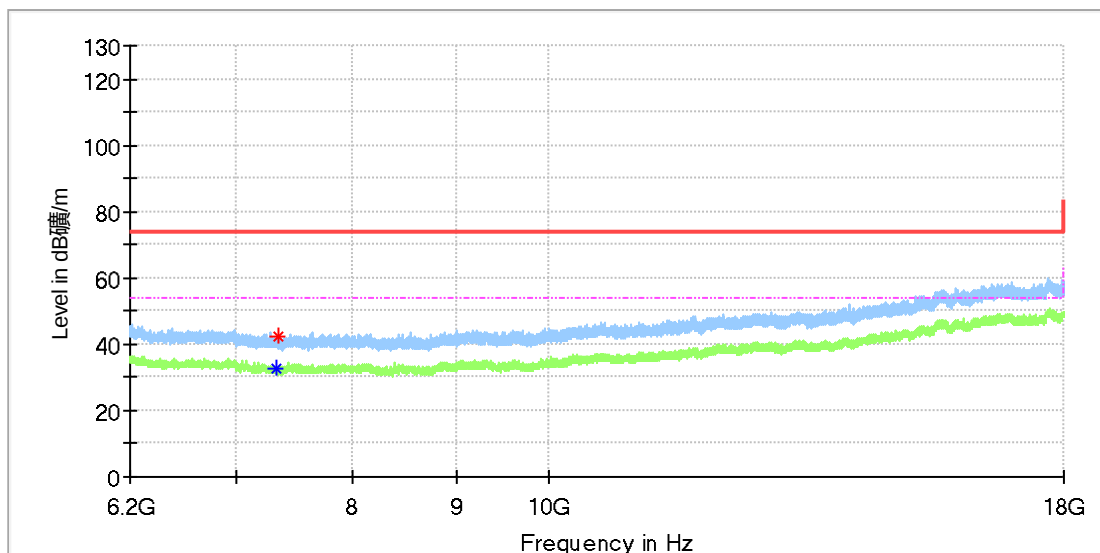
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4882.000000     | ---              | 43.56            | 54.00          | 10.44       | 150.0       | V   | 216.0         | 11.8         |
| 4890.500000     | 50.08            | ---              | 74.00          | 23.92       | 150.0       | V   | 29.0          | 11.8         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Mid channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

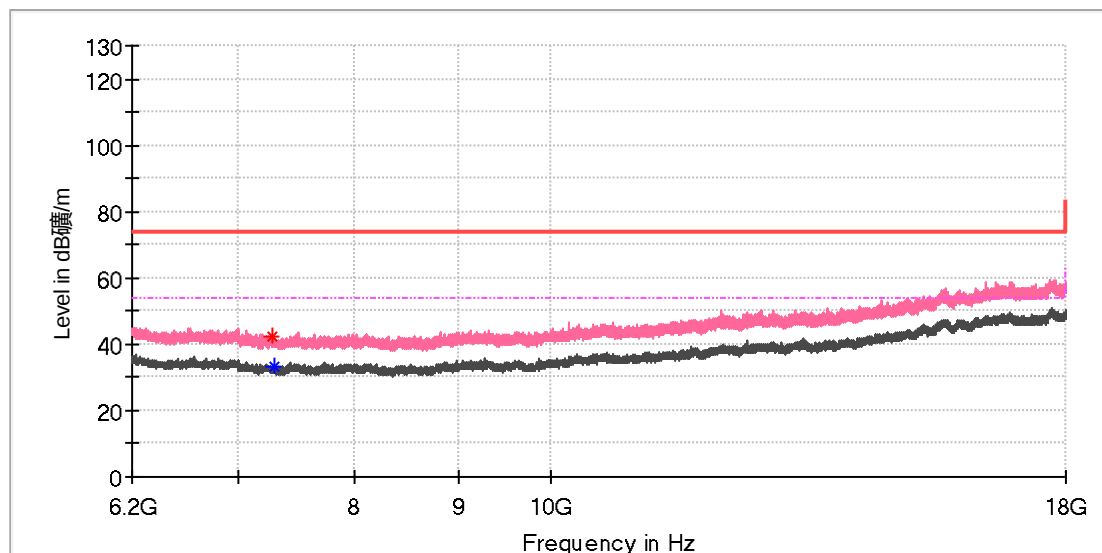
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7332.308333     | ---              | 32.95            | 54.00          | 21.05       | 150.0       | H   | 257.0         | 8.1          |
| 7347.550000     | 42.44            | ---              | 74.00          | 31.56       | 150.0       | H   | 94.0          | 8.1          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Mid channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

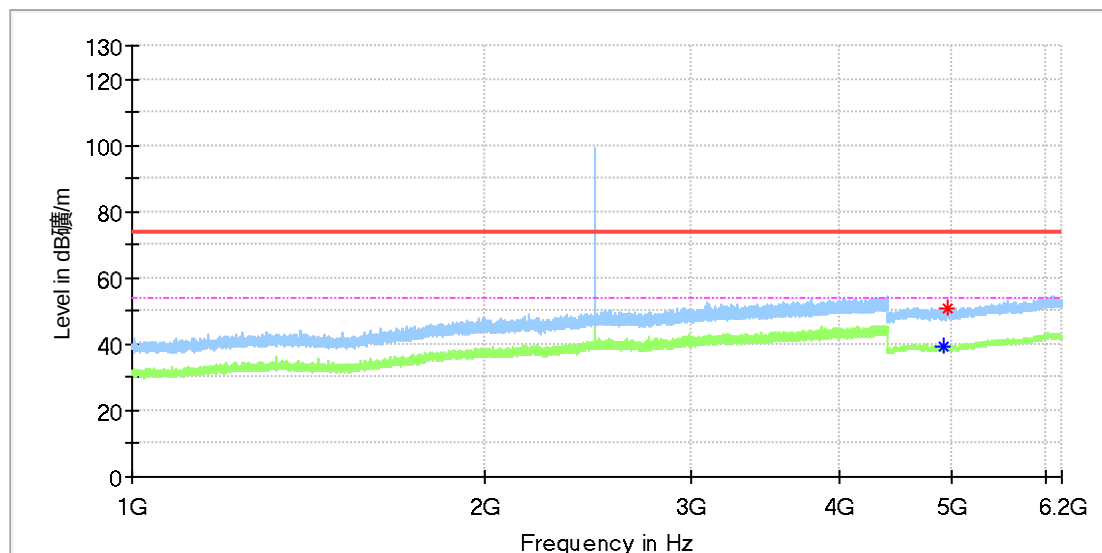
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7284.616667     | 42.21            | ---              | 74.00          | 31.79       | 150.0       | V   | 133.0         | 8.4          |
| 7285.600000     | ---              | 33.47            | 54.00          | 20.53       | 150.0       | V   | 234.0         | 8.4          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_High channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

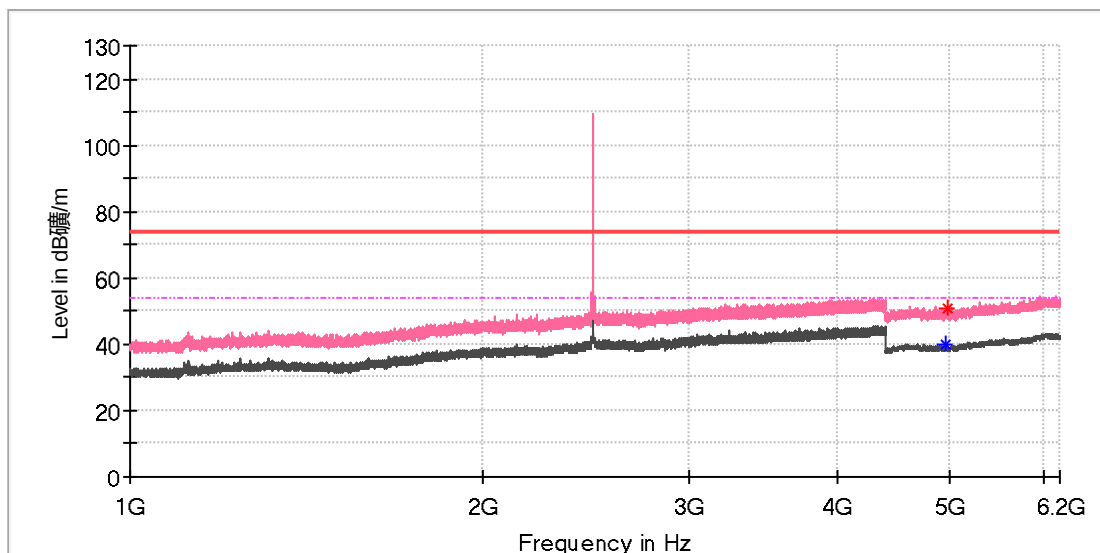
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4913.000000     | ---              | 39.57            | 54.00          | 14.43       | 150.0       | H   | 181.0         | 11.8         |
| 4959.000000     | 50.63            | ---              | 74.00          | 23.37       | 150.0       | H   | 44.0          | 11.8         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_High channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

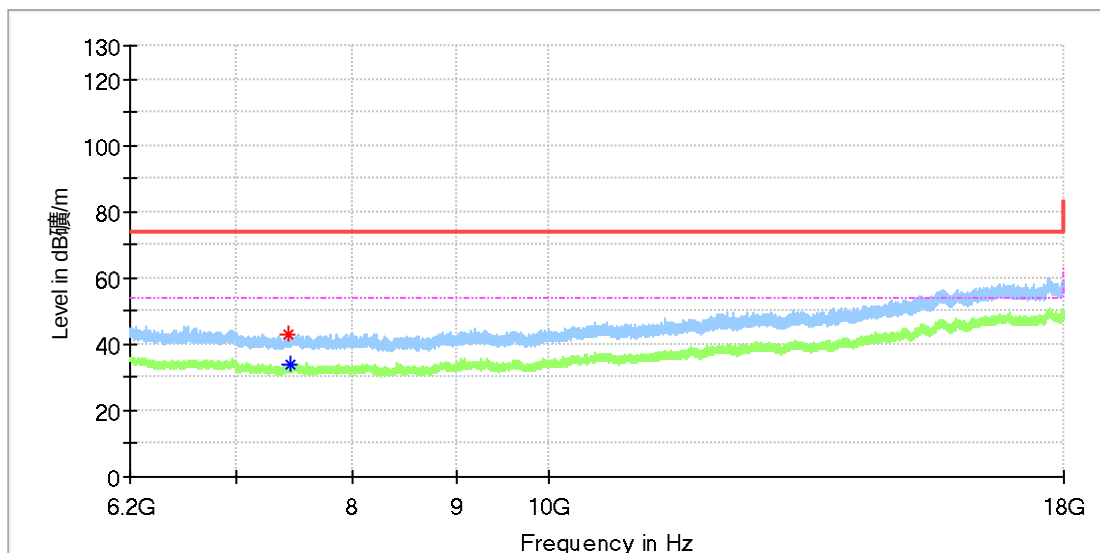
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4960.000000     | ---              | 39.90            | 54.00          | 14.10       | 150.0       | V   | 7.0           | 11.8         |
| 4977.000000     | 50.56            | ---              | 74.00          | 23.44       | 150.0       | V   | 0.0           | 11.8         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_High channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

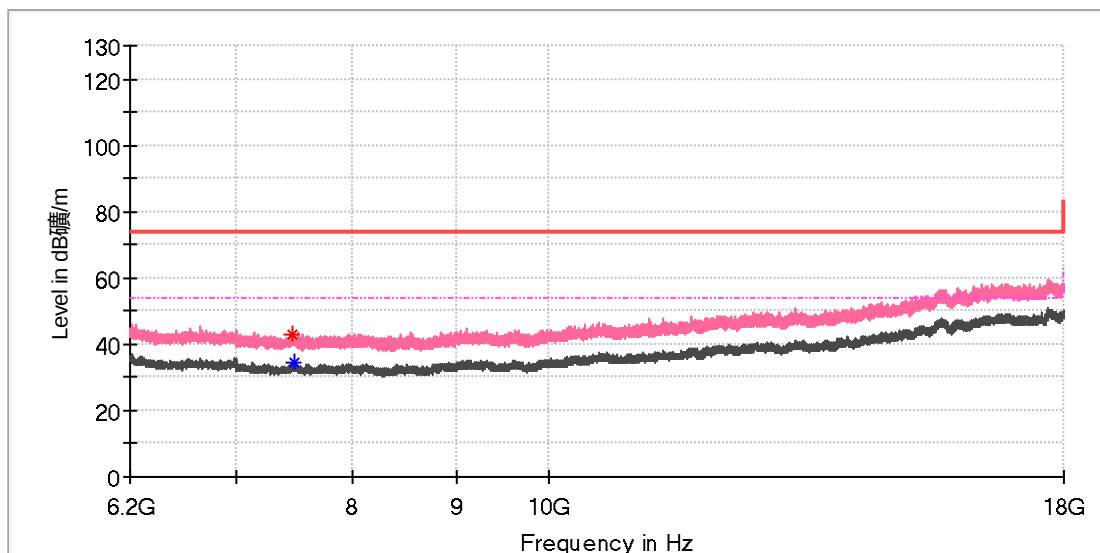
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7431.133333     | 42.68            | ---              | 74.00          | 31.32       | 150.0       | H   | 0.0           | 8.4          |
| 7452.275000     | ---              | 34.00            | 54.00          | 20.00       | 150.0       | H   | 295.0         | 8.5          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_High channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7458.175000     | 42.82            | ---              | 74.00          | 31.18       | 150.0       | V   | 56.0          | 8.5          |
| 7471.941667     | ---              | 34.30            | 54.00          | 19.70       | 150.0       | V   | 92.0          | 8.6          |

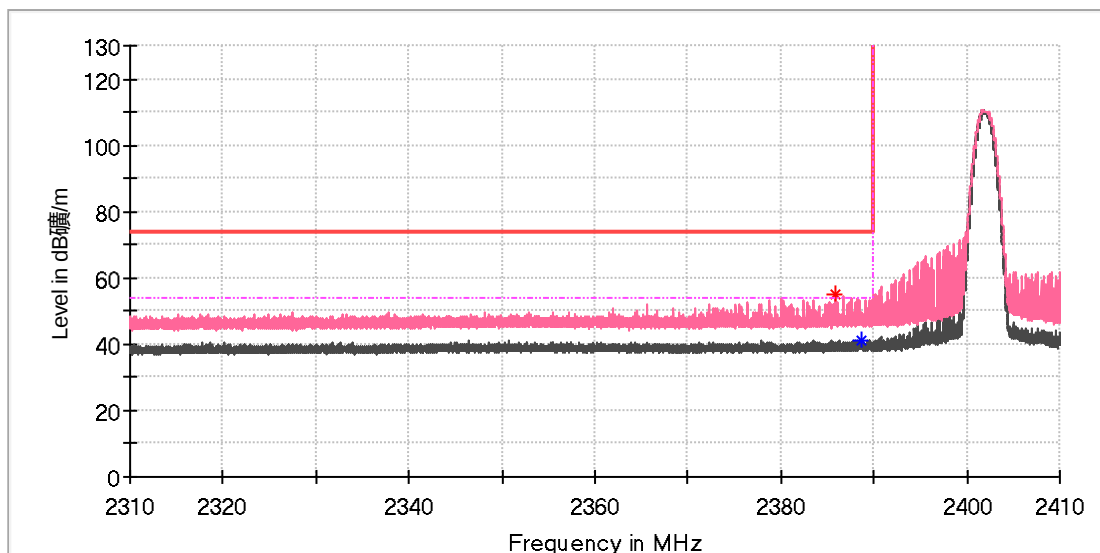
## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## **Appendix A.8: Test Results of Radiated Emissions in Restricted Bands**

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

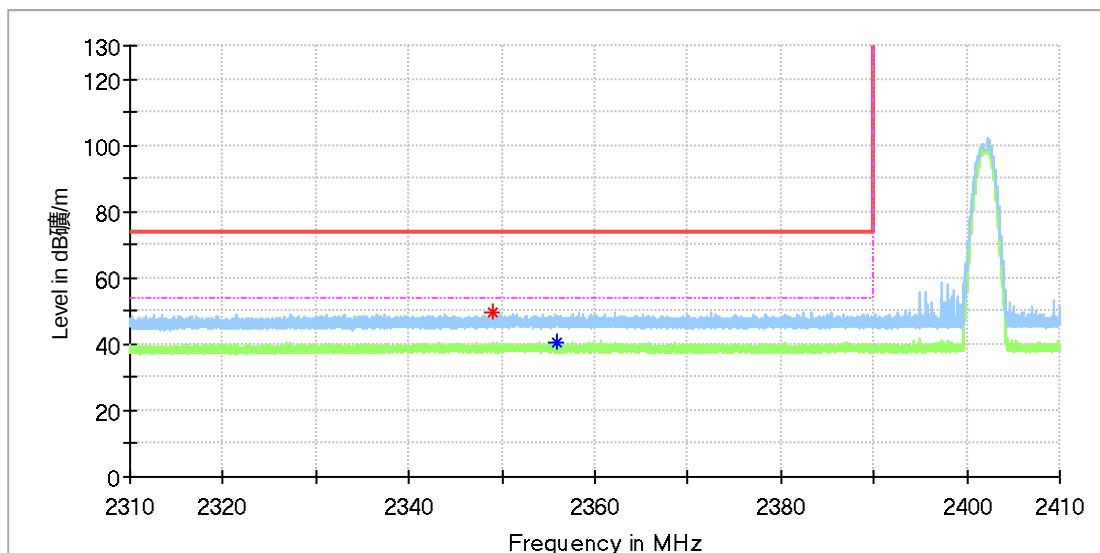
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2385.885000     | 55.14            | ---              | 74.00          | 18.86       | 150.0       | V   | 322.0         | 7.0          |
| 2388.770000     | ---              | 40.98            | 54.00          | 13.02       | 150.0       | V   | 312.0         | 7.0          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_Low channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

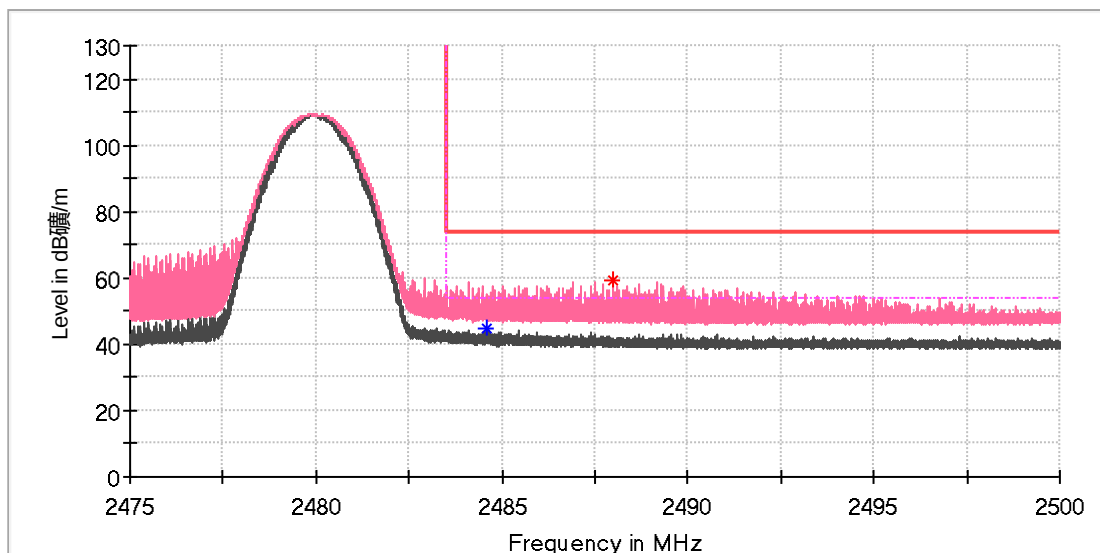
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2348.975000     | 49.55            | ---              | 74.00          | 24.45       | 150.0       | H   | 268.0         | 6.9          |
| 2355.825000     | ---              | 40.73            | 54.00          | 13.27       | 150.0       | H   | 218.0         | 6.9          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_High channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

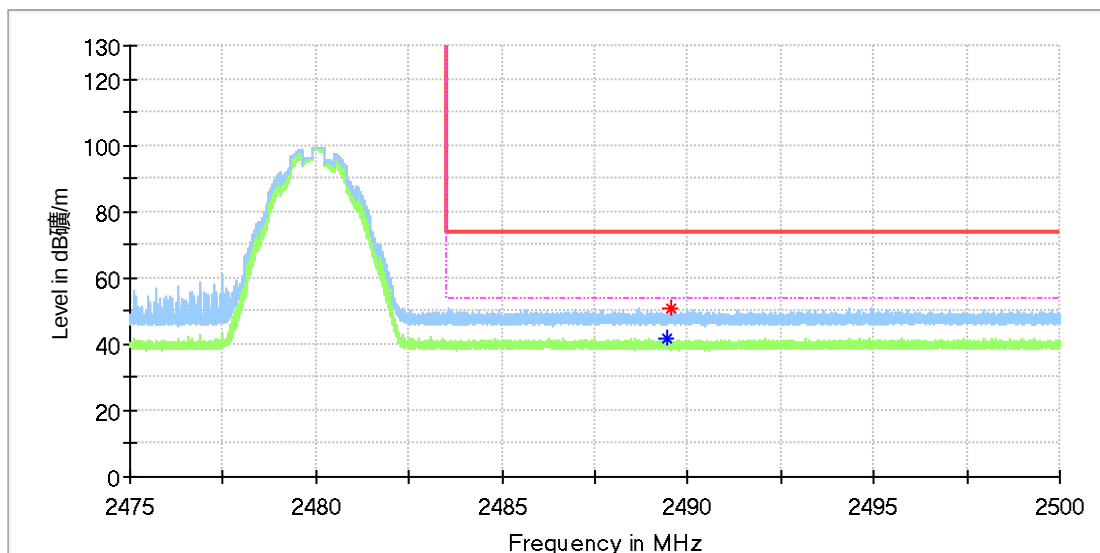
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2484.567500     | ---              | 44.49            | 54.00          | 9.51        | 150.0       | V   | 315.0         | 7.4          |
| 2487.995000     | 59.13            | ---              | 74.00          | 14.87       | 150.0       | V   | 325.0         | 7.4          |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## EUT Information

EUT Name: OPS-8195A  
Model: OPS-8195A-4R64S  
Test Mode: BR\_DH5\_High channel  
Order No/Sample No: 168426958/A003490153-001  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2489.441250     | ---              | 41.45            | 54.00          | 12.55       | 150.0       | H   | 324.0         | 7.4          |
| 2489.525000     | 50.88            | ---              | 74.00          | 23.12       | 150.0       | H   | 324.0         | 7.4          |

## Final\_Result

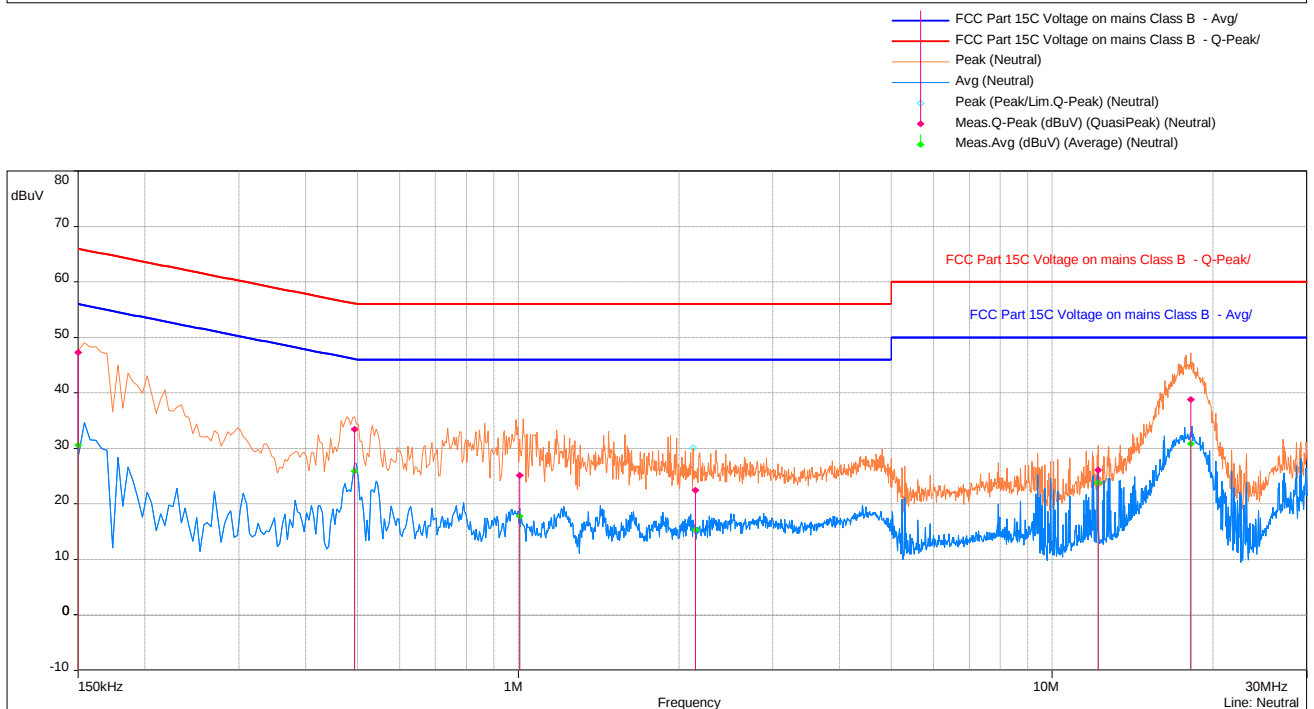
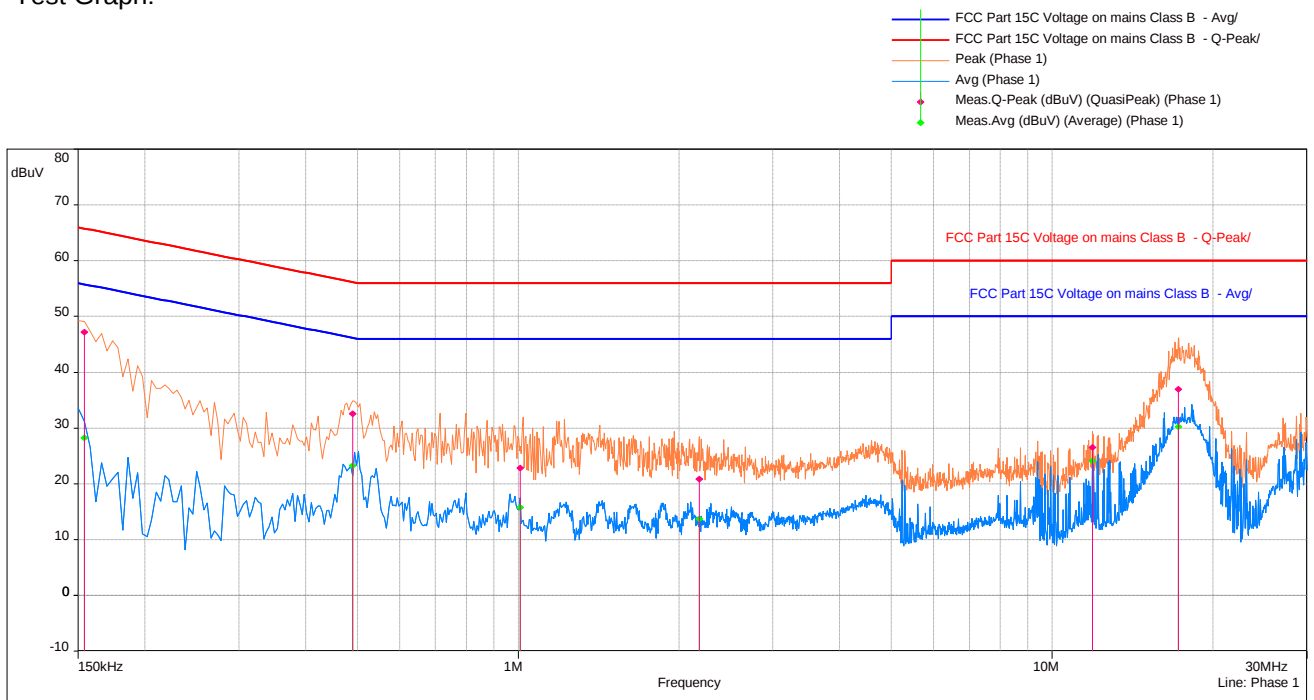
| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Appendix A.9: Test Results of Conducted Emission

### EUT Information

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| EUT Name:           | OPS-8195A                                           |
| Model:              | OPS-8195A-4R64S                                     |
| Test Mode:          | Normal Operating with Wi-Fi and Bluetooth Connected |
| Test Voltage:       | AC 120V/60Hz                                        |
| Test Standard:      | FCC Part 15.207                                     |
| Test By:/Review By: | Jason Wu/Jacky chen                                 |
| Tem./Hum./Pressure: | 22°C/55%/101kPa                                     |

#### Test Graph:



## Average (12)

| Frequency (MHz) | SR | Meas.Avg (dBuV) | Limit (dBuV) | Meas.-Lim (dB) | Line    | RBW | Meas.Time | Comments | Correction (dB) |
|-----------------|----|-----------------|--------------|----------------|---------|-----|-----------|----------|-----------------|
| 0.15            | 1  | 30.55           | 56.00        | -25.45         | Neutral | 9k  | 0.01      | Pass     | 9.67            |
| 0.496           | 1  | 25.95           | 46.10        | -20.15         | Neutral | 9k  | 0.01      | Pass     | 9.79            |
| 1.00625         | 1  | 17.75           | 46.00        | -28.25         | Neutral | 9k  | 0.01      | Pass     | 9.83            |
| 2.1485          | 1  | 15.37           | 46.00        | -30.63         | Neutral | 9k  | 0.01      | Pass     | 9.88            |
| 12.20025        | 1  | 23.81           | 50.00        | -26.19         | Neutral | 9k  | 0.01      | Pass     | 10.11           |
| 18.1865         | 1  | 30.85           | 50.00        | -19.15         | Neutral | 9k  | 0.01      | Pass     | 10.26           |
| 0.15225         | 2  | 28.25           | 55.78        | -27.53         | Phase 1 | 9k  | 0.01      | Pass     | 9.69            |
| 0.49            | 2  | 23.29           | 46.17        | -22.88         | Phase 1 | 9k  | 0.01      | Pass     | 9.69            |
| 1.01075         | 2  | 15.75           | 46.00        | -30.25         | Phase 1 | 9k  | 0.01      | Pass     | 9.70            |
| 2.1815          | 2  | 13.67           | 46.00        | -32.33         | Phase 1 | 9k  | 0.01      | Pass     | 9.73            |
| 11.894          | 2  | 24.07           | 50.00        | -25.93         | Phase 1 | 9k  | 0.01      | Pass     | 9.94            |
| 17.24625        | 2  | 30.24           | 50.00        | -19.76         | Phase 1 | 9k  | 0.01      | Pass     | 10.12           |

## QuasiPeak (12)

| Frequency (MHz) | SR | Meas.Q-Peak (dBuV) | Limit (dBuV) | Meas.-Lim (dB) | Line    | RBW | Meas.Time | Comments | Correction (dB) |
|-----------------|----|--------------------|--------------|----------------|---------|-----|-----------|----------|-----------------|
| 0.15            | 1  | 47.29              | 66.00        | -18.71         | Neutral | 9k  | 0.01      | Pass     | 9.67            |
| 0.496           | 1  | 33.46              | 56.10        | -22.64         | Neutral | 9k  | 0.01      | Pass     | 9.79            |
| 1.00625         | 1  | 25.16              | 56.00        | -30.84         | Neutral | 9k  | 0.01      | Pass     | 9.83            |
| 2.1485          | 1  | 22.44              | 56.00        | -33.56         | Neutral | 9k  | 0.01      | Pass     | 9.88            |
| 12.20025        | 1  | 26.08              | 60.00        | -33.92         | Neutral | 9k  | 0.01      | Pass     | 10.11           |
| 18.1865         | 1  | 38.80              | 60.00        | -21.20         | Neutral | 9k  | 0.01      | Pass     | 10.26           |
| 0.15225         | 2  | 47.17              | 65.78        | -18.61         | Phase 1 | 9k  | 0.01      | Pass     | 9.69            |
| 0.49            | 2  | 32.57              | 56.17        | -23.60         | Phase 1 | 9k  | 0.01      | Pass     | 9.69            |
| 1.01075         | 2  | 22.85              | 56.00        | -33.15         | Phase 1 | 9k  | 0.01      | Pass     | 9.70            |
| 2.1815          | 2  | 20.86              | 56.00        | -35.14         | Phase 1 | 9k  | 0.01      | Pass     | 9.73            |
| 11.894          | 2  | 26.50              | 60.00        | -33.50         | Phase 1 | 9k  | 0.01      | Pass     | 9.94            |
| 17.24625        | 2  | 36.94              | 60.00        | -23.06         | Phase 1 | 9k  | 0.01      | Pass     | 10.12           |

| Start Frequency | Stop Frequency | Frequency step | RBW  | Sweep Time | Position |
|-----------------|----------------|----------------|------|------------|----------|
| 150kHz          | 30MHz          | 4kHz           | 9kHz | 10 ms      | Neutral  |
| 150kHz          | 30MHz          | 4kHz           | 9kHz | 10 ms      | Phase 1  |