

## APPENDIX B: TEST RESULTS OF BLUETOOTH (LOW ENERGY)

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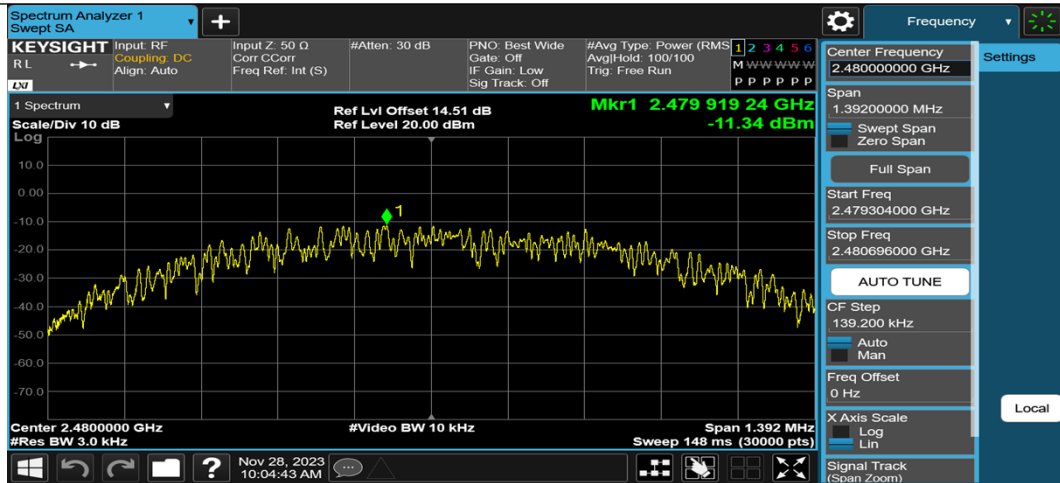
## APPENDIX B.1: CONDUCTED POWER SPECTRAL DENSITY

### Test Result

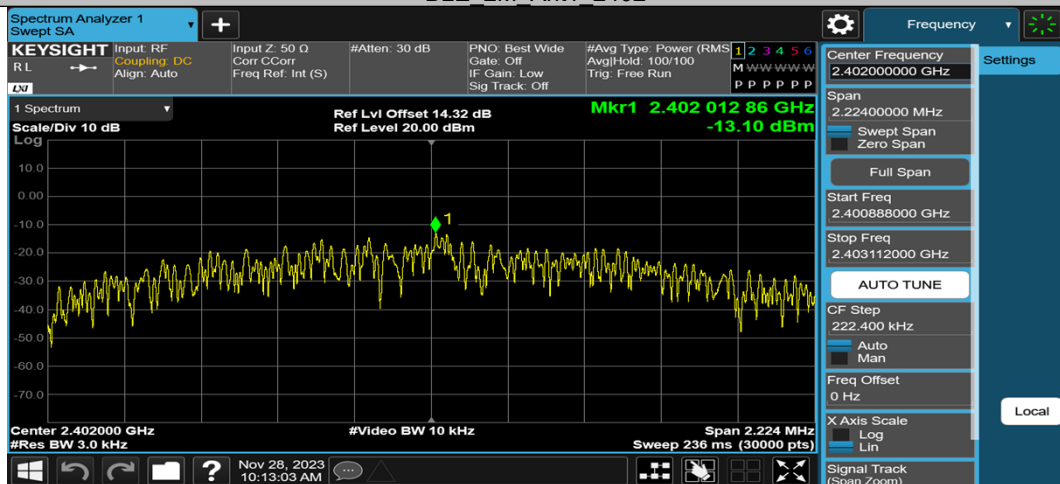
| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -11.61               | ≤8.00           | PASS    |
|          |         | 2440    | -11.35               | ≤8.00           | PASS    |
|          |         | 2480    | -11.34               | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402    | -13.10               | ≤8.00           | PASS    |
|          |         | 2440    | -12.88               | ≤8.00           | PASS    |
|          |         | 2480    | -12.83               | ≤8.00           | PASS    |
| BLE_125K | Ant1    | 2402    | -0.65                | ≤8.00           | PASS    |
|          |         | 2440    | -0.29                | ≤8.00           | PASS    |
|          |         | 2480    | -0.25                | ≤8.00           | PASS    |
| BLE_500K | Ant1    | 2402    | -0.74                | ≤8.00           | PASS    |
|          |         | 2440    | -0.37                | ≤8.00           | PASS    |
|          |         | 2480    | -0.34                | ≤8.00           | PASS    |

### Test Graphs

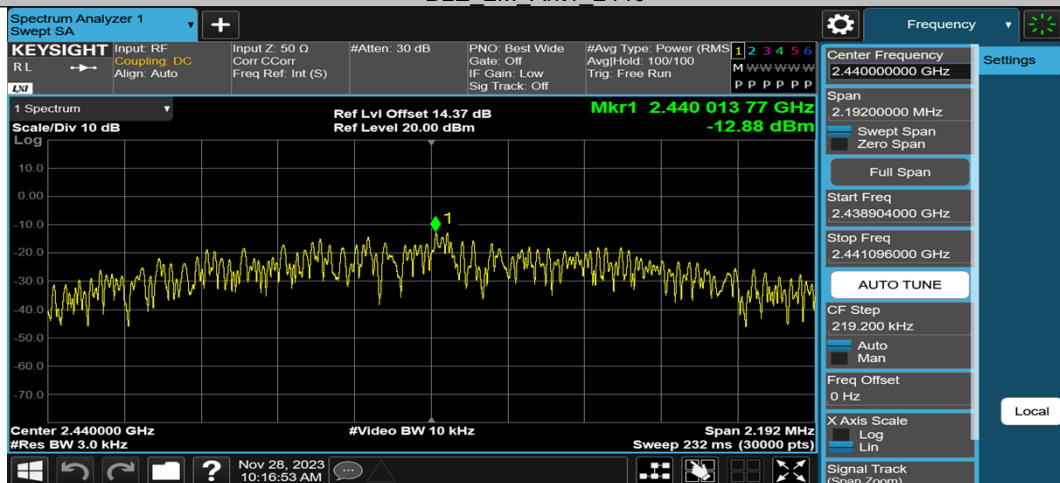




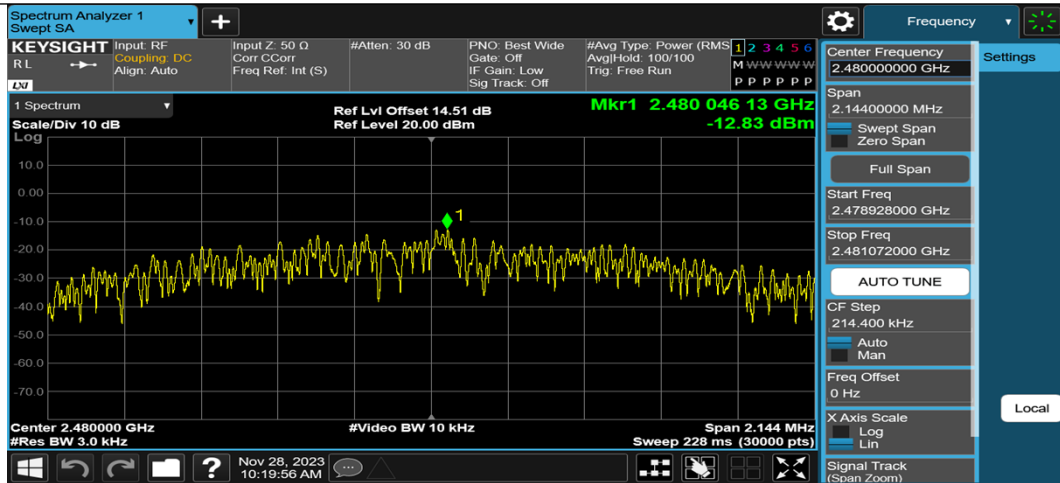
BLE 2M Ant1 2402



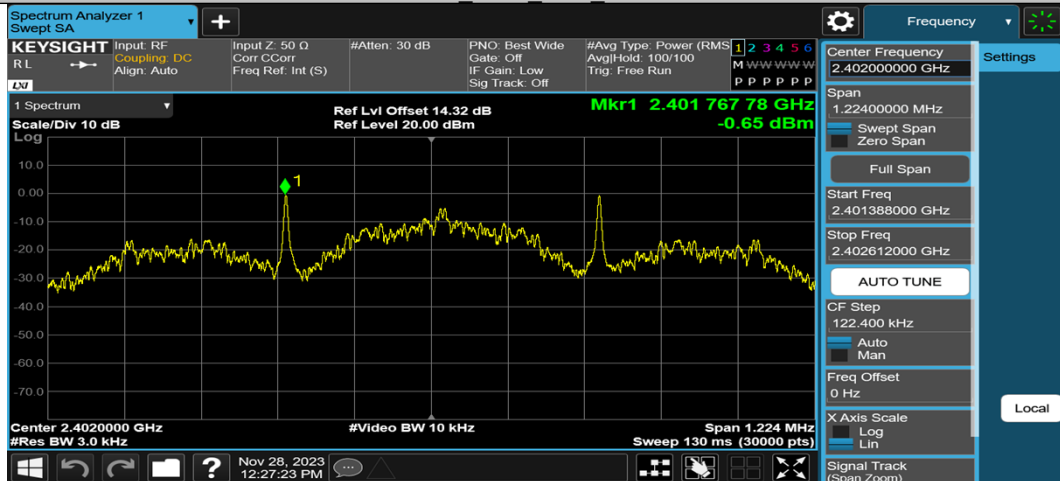
BLE 2M Ant1 2440



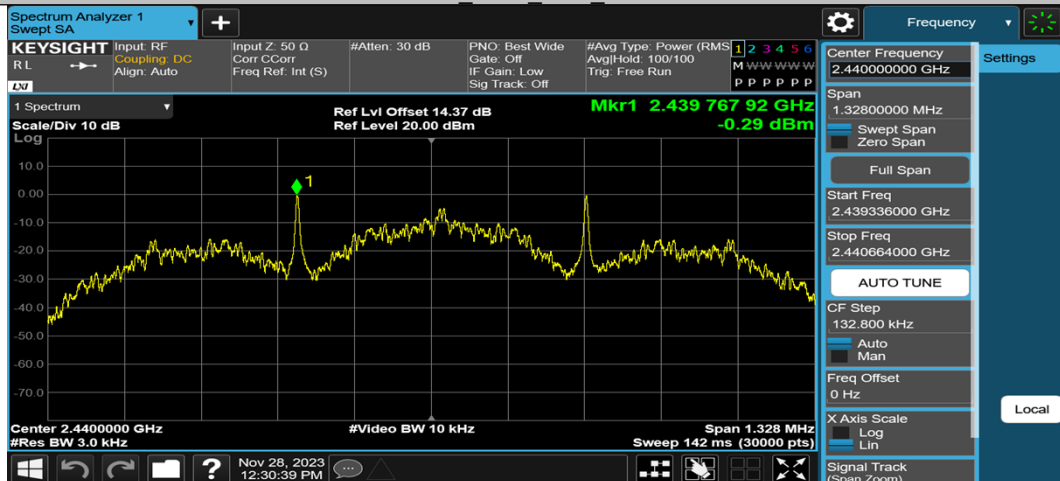
BLE 2M Ant1 2480



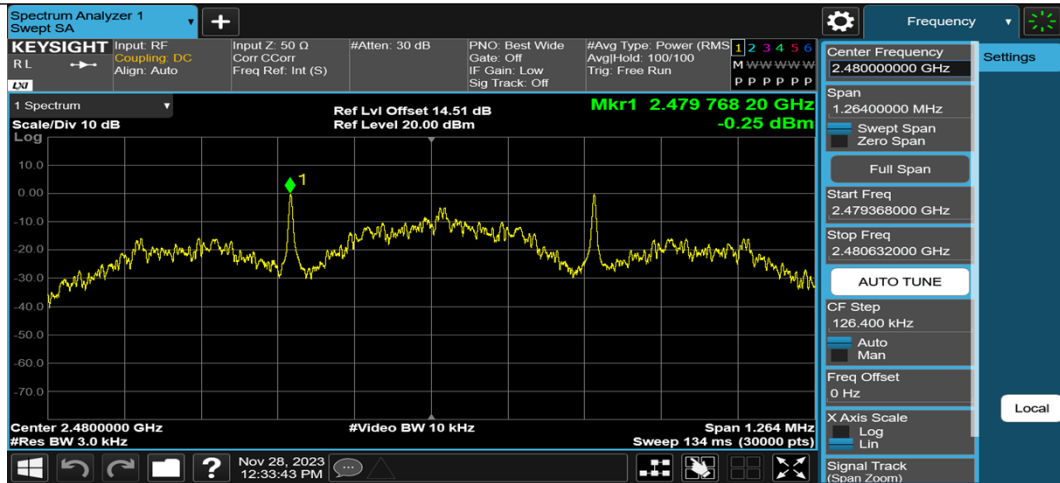
BLE 125K Ant1 2402



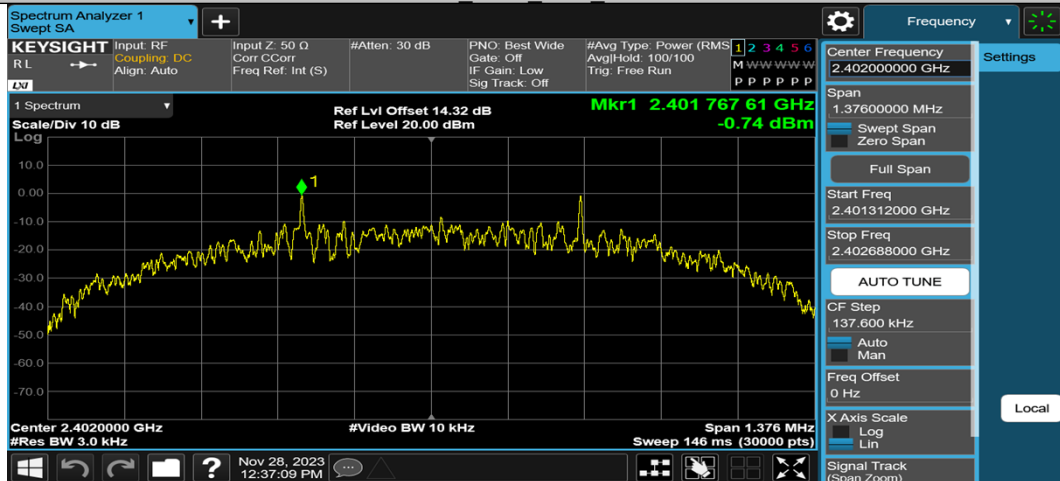
BLE 125K Ant1 2440



BLE 125K Ant1 2480



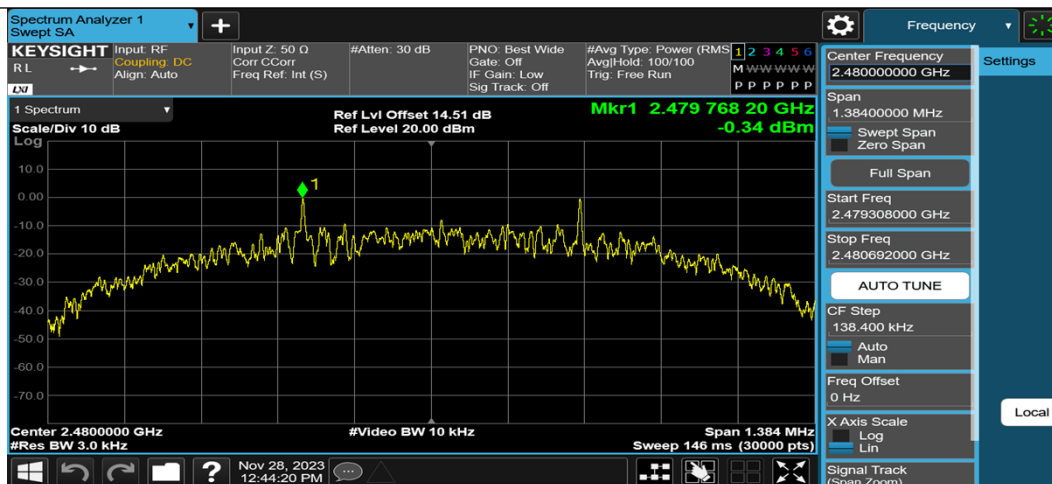
BLE 500K Ant1 2402



BLE 500K Ant1 2440



BLE 500K Ant1 2480

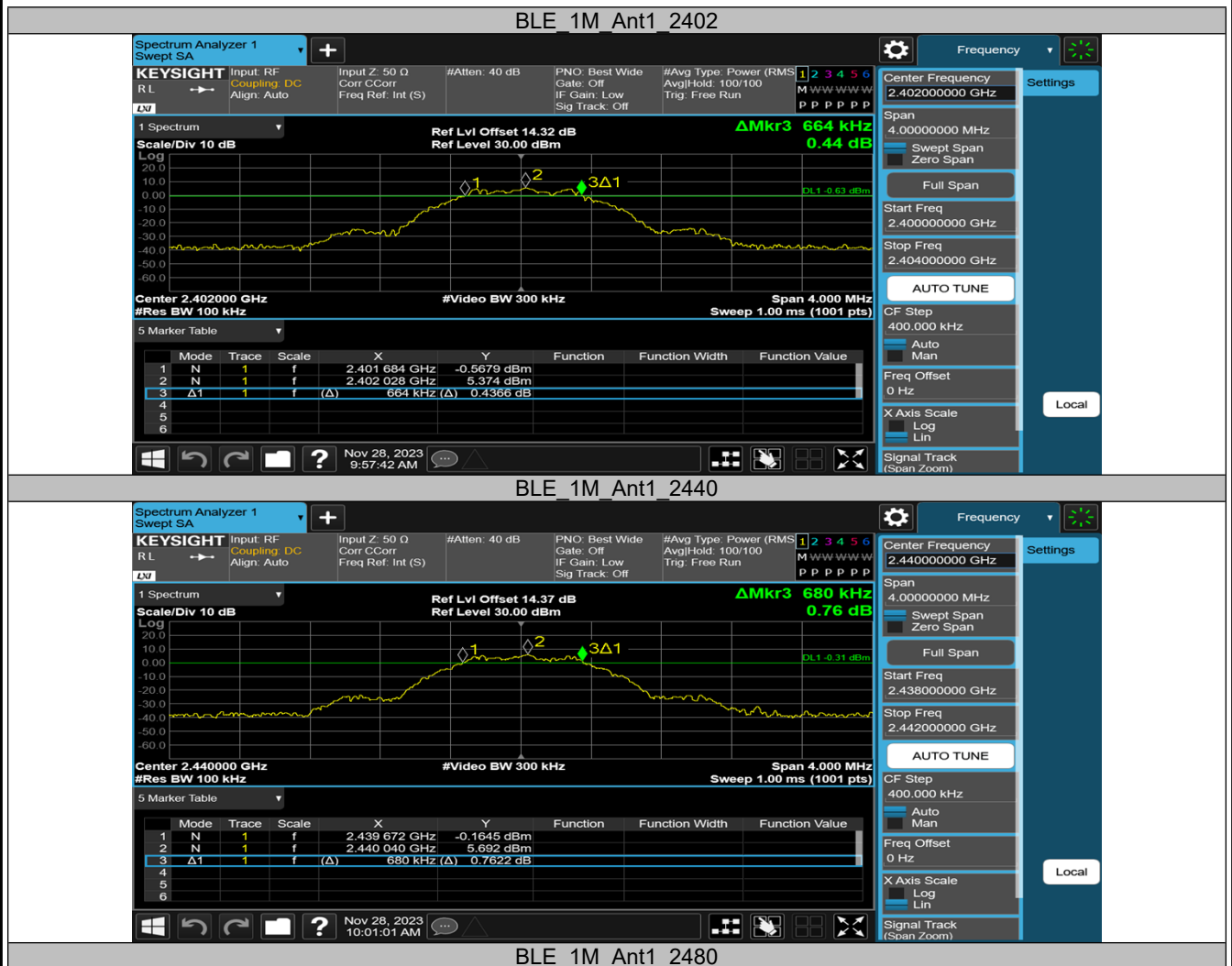


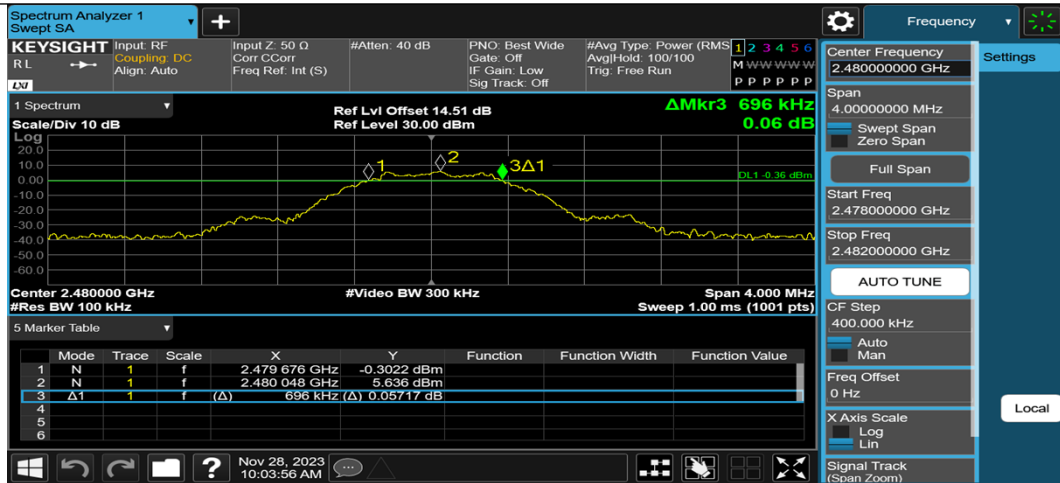
## APPENDIX B.2: 6dB BANDWIDTH

### Test Result

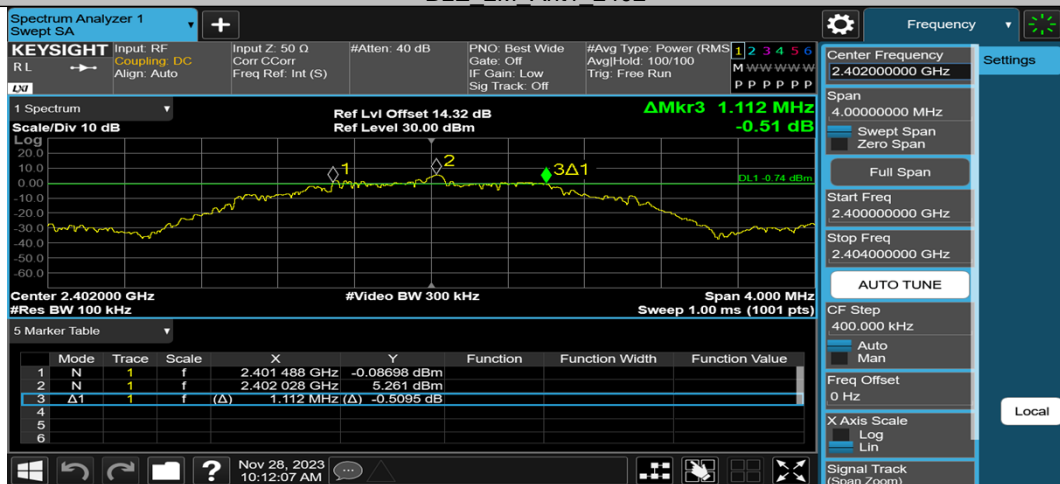
| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.664        | 2401.684 | 2402.348 | 0.5        | PASS    |
|          |         | 2440    | 0.680        | 2439.672 | 2440.352 | 0.5        | PASS    |
|          |         | 2480    | 0.696        | 2479.676 | 2480.372 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402    | 1.112        | 2401.488 | 2402.600 | 0.5        | PASS    |
|          |         | 2440    | 1.096        | 2439.508 | 2440.604 | 0.5        | PASS    |
|          |         | 2480    | 1.072        | 2479.484 | 2480.556 | 0.5        | PASS    |
| BLE_125K | Ant1    | 2402    | 0.612        | 2401.712 | 2402.324 | 0.5        | PASS    |
|          |         | 2440    | 0.664        | 2439.688 | 2440.352 | 0.5        | PASS    |
|          |         | 2480    | 0.632        | 2479.704 | 2480.336 | 0.5        | PASS    |
| BLE_500K | Ant1    | 2402    | 0.688        | 2401.684 | 2402.372 | 0.5        | PASS    |
|          |         | 2440    | 0.692        | 2439.688 | 2440.380 | 0.5        | PASS    |
|          |         | 2480    | 0.692        | 2479.688 | 2480.380 | 0.5        | PASS    |

### Test Graphs

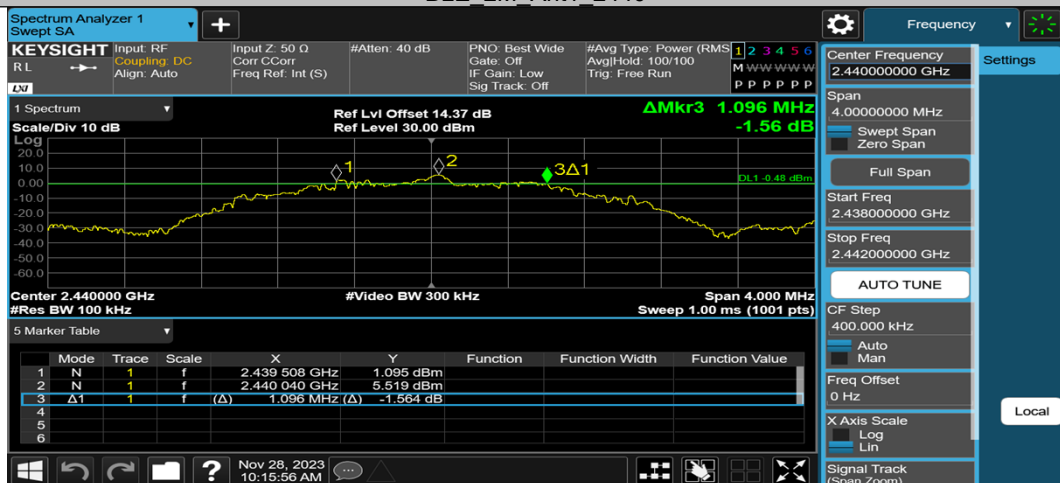




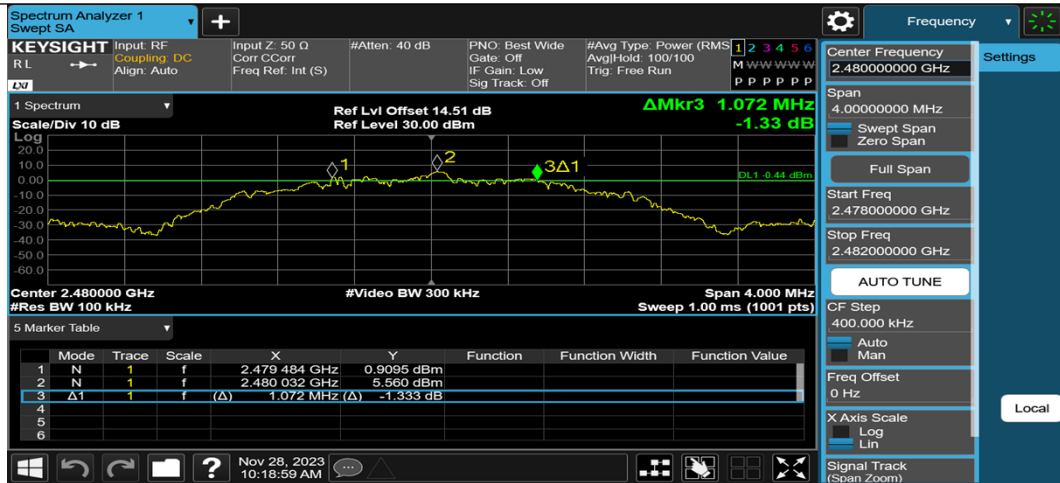
BLE 2M Ant1 2402



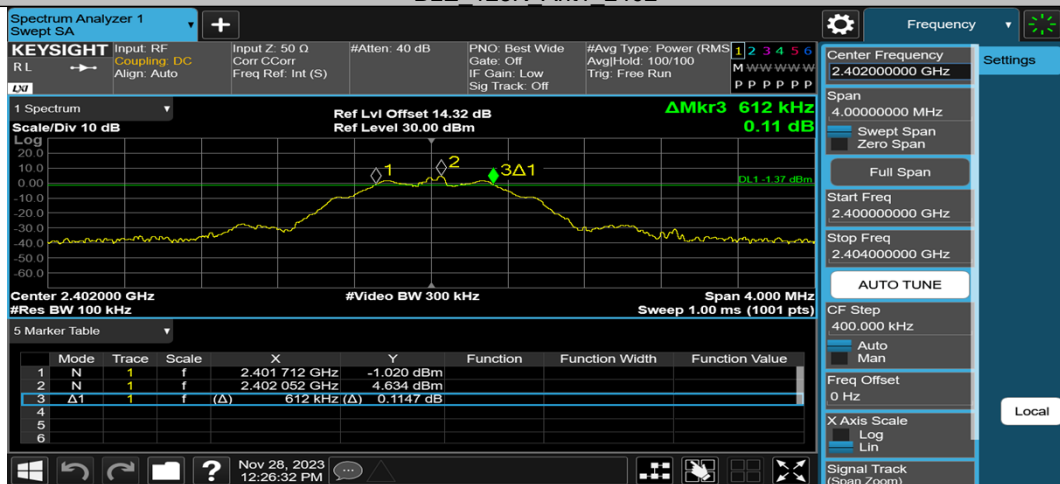
BLE 2M Ant1 2440



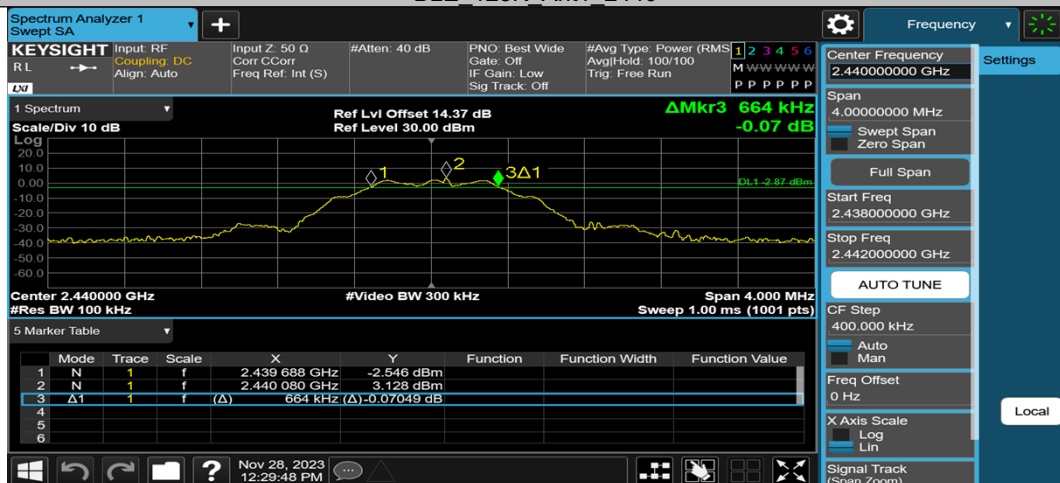
BLE 2M Ant1 2480



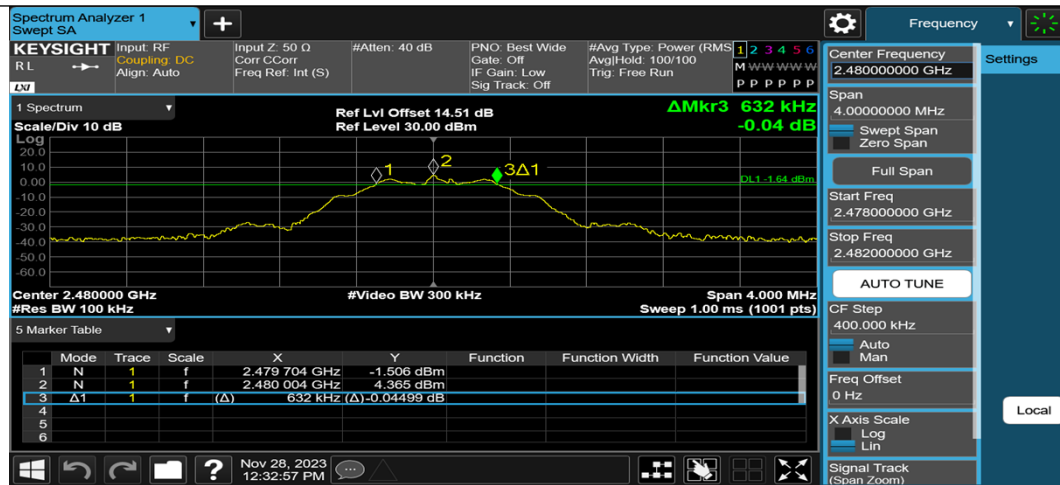
BLE 125K Ant1 2402



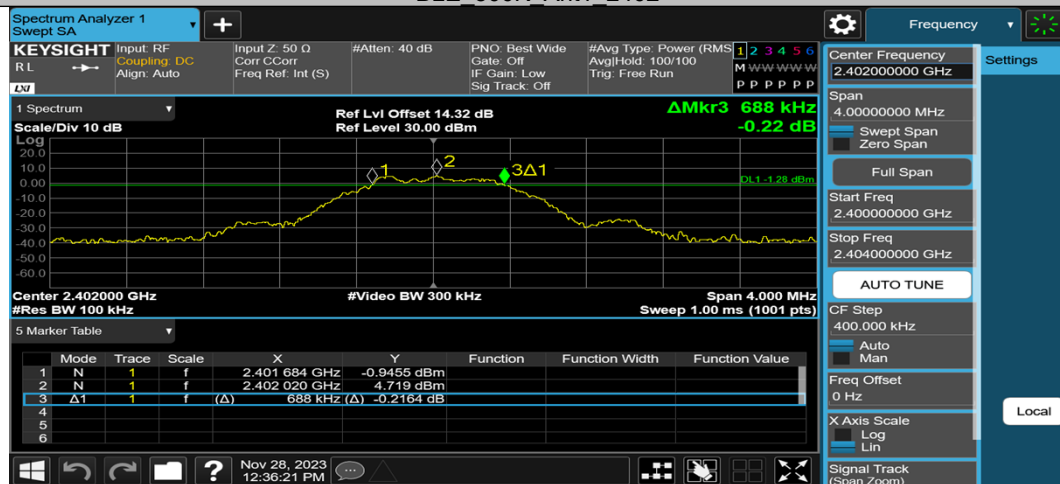
BLE 125K Ant1 2440



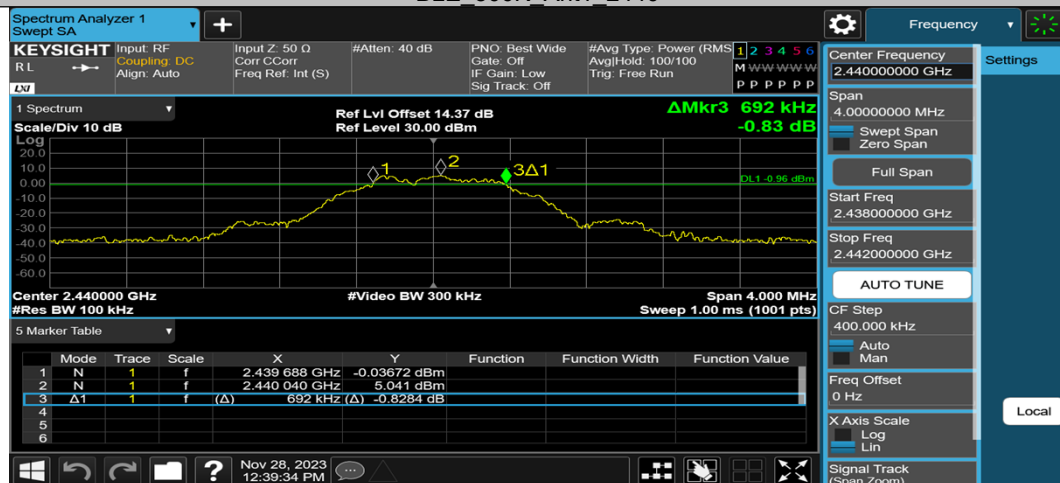
BLE 125K Ant1 2480



BLE 500K Ant1\_2402



BLE 500K Ant1\_2440



BLE\_500K\_Ant1\_2480



## APPENDIX B.3: 99% BANDWIDTH

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|-----------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.0452    | 2401.5111 | 2402.5563 | ---        | ---     |
|          |         | 2440    | 1.0476    | 2439.5075 | 2440.5551 | ---        | ---     |
|          |         | 2480    | 1.0441    | 2479.5091 | 2480.5532 | ---        | ---     |
| BLE_2M   | Ant1    | 2402    | 2.0307    | 2401.0235 | 2403.0542 | ---        | ---     |
|          |         | 2440    | 2.0498    | 2439.0217 | 2441.0715 | ---        | ---     |
|          |         | 2480    | 2.0519    | 2479.0253 | 2481.0772 | ---        | ---     |
| BLE_125K | Ant1    | 2402    | 1.0705    | 2401.4852 | 2402.5557 | ---        | ---     |
|          |         | 2440    | 1.0732    | 2439.4823 | 2440.5555 | ---        | ---     |
|          |         | 2480    | 1.0748    | 2479.4822 | 2480.5570 | ---        | ---     |
| BLE_500K | Ant1    | 2402    | 1.0406    | 2401.5042 | 2402.5448 | ---        | ---     |
|          |         | 2440    | 1.0442    | 2439.5008 | 2440.5450 | ---        | ---     |
|          |         | 2480    | 1.0437    | 2479.4983 | 2480.5420 | ---        | ---     |

### Test Graphs

