

Appendix Test Data

| | | | |
|------------------|-----------------|--------------------|-------------------|
| Report No.: | 18220WC30054801 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2023.04.03 | Finish Test Date: | 2023.04.06 |
| Test Engineer: | <i>Jony.He</i> | Auditor: | <i>Edward.Pan</i> |
| Temperature: | 25.1℃ | Relative Humidity: | 50% |
| Pressure: | 1012 hPa | | |

Appendix A: DTS Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0.656 | 2401.668 | 2402.324 | 0.5 | PASS |
| | | 2440 | 0.672 | 2439.652 | 2440.324 | 0.5 | PASS |
| | | 2480 | 0.672 | 2479.652 | 2480.324 | 0.5 | PASS |



Test Graphs

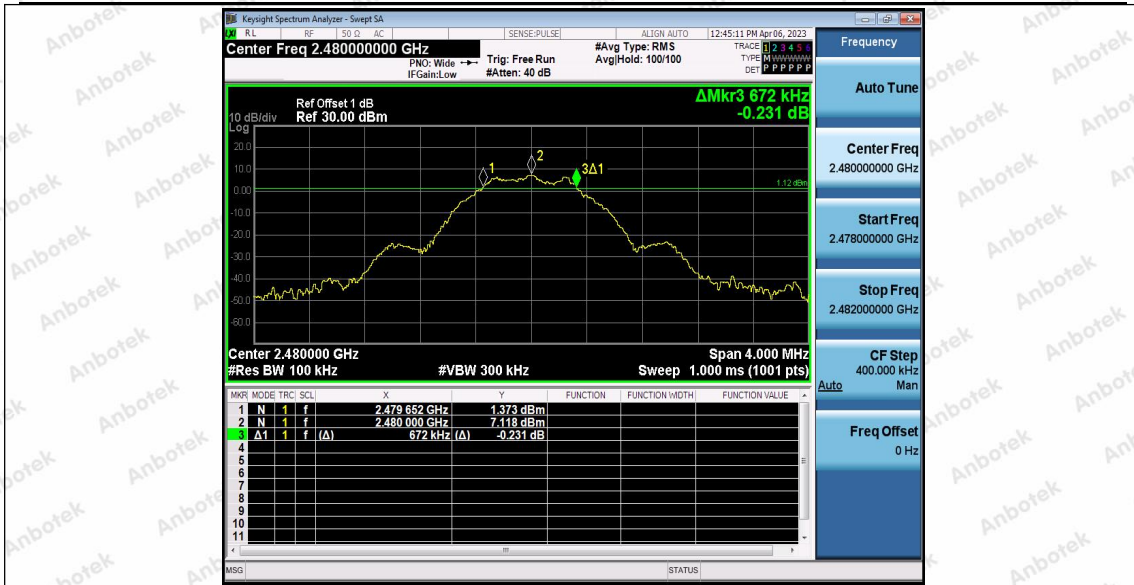


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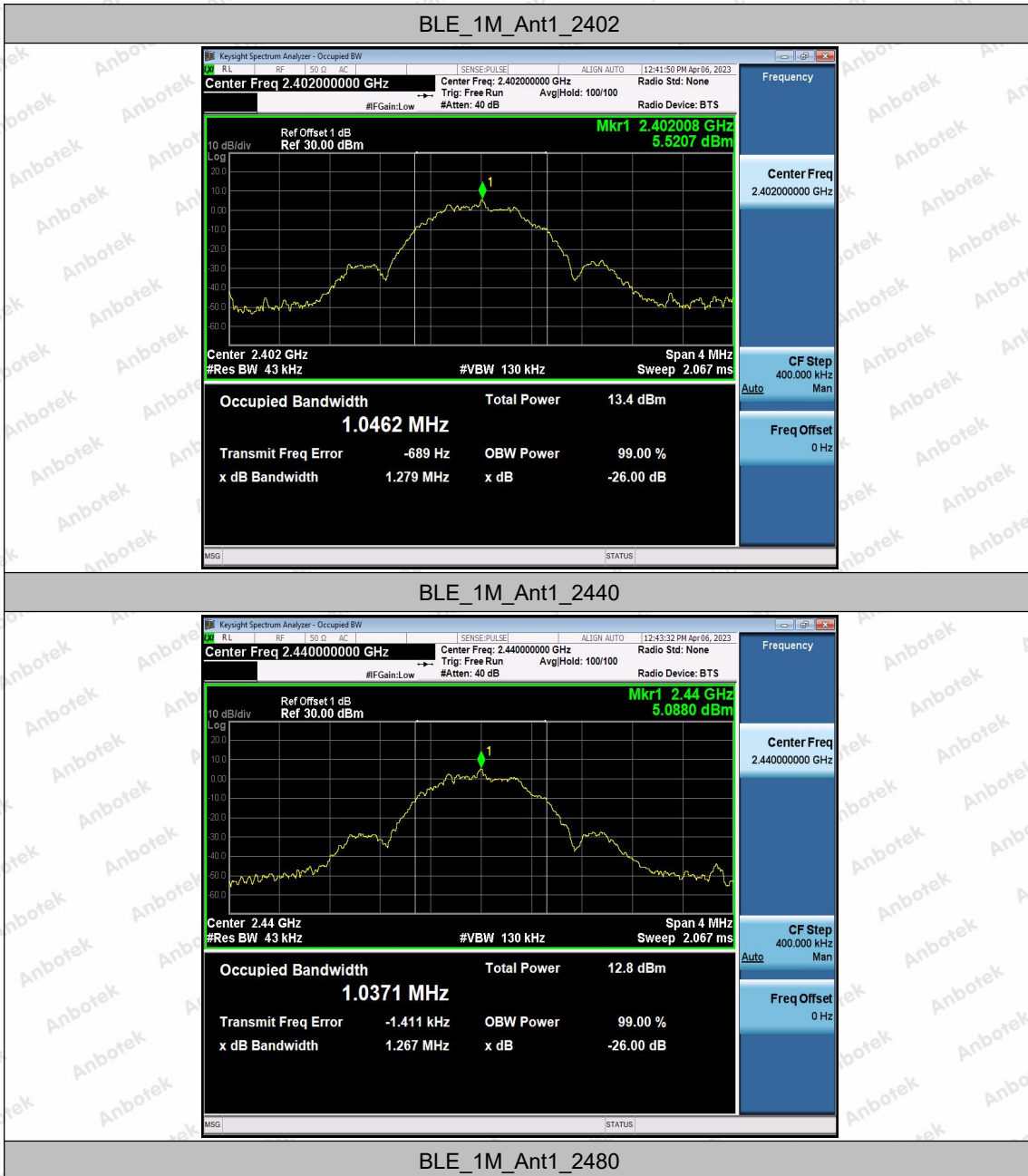
Appendix B: Occupied Channel Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] |
|-----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M | Ant1 | 2402 | 1.0462 | 2401.4762 | 2402.5224 |
| | | 2440 | 1.0371 | 2439.4800 | 2440.5171 |
| | | 2480 | 1.0384 | 2479.4793 | 2480.5177 |



Test Graphs



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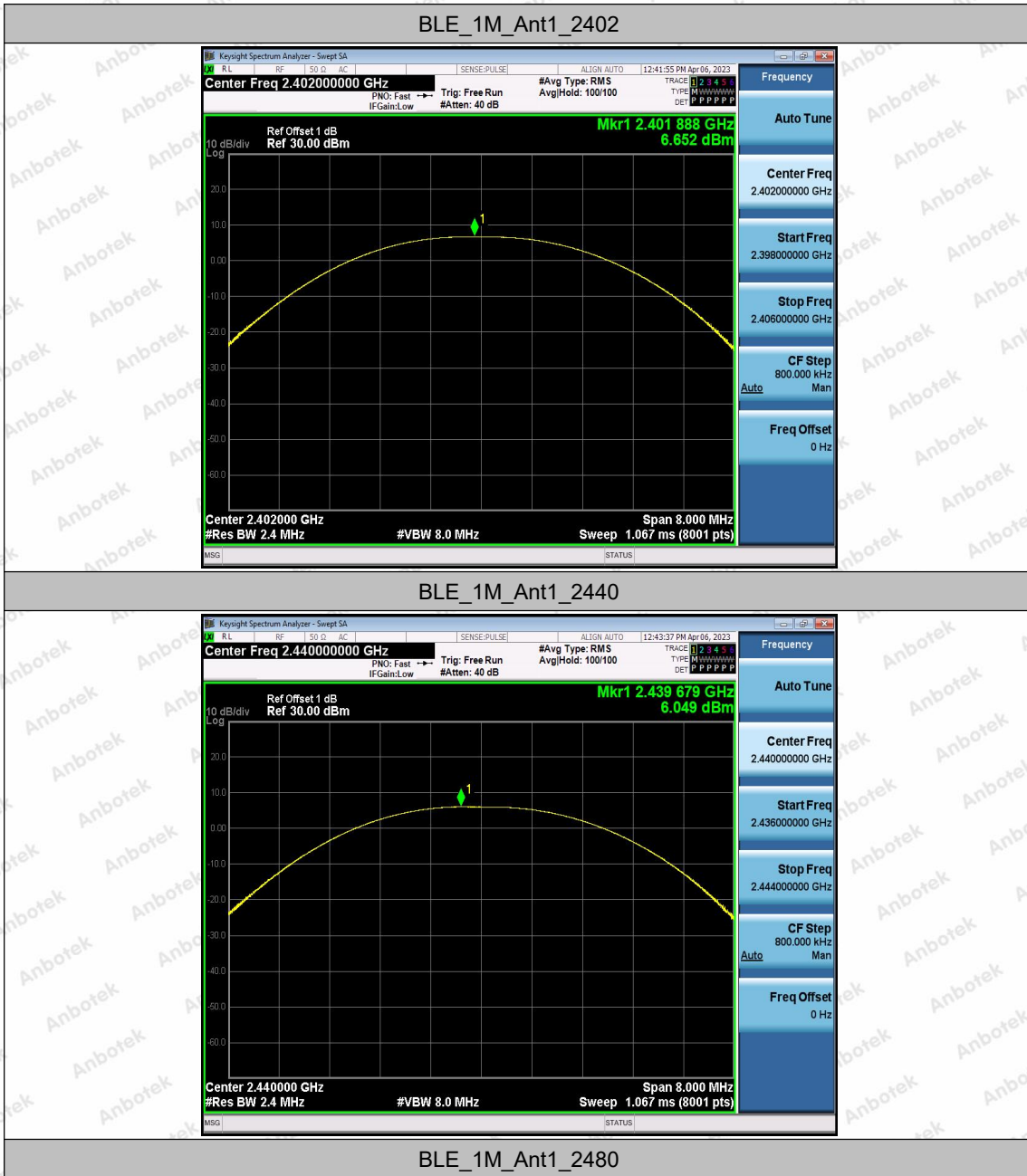
Appendix C: Maximum conducted output power

Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M | Ant1 | 2402 | 6.65 | ≤30 | PASS |
| | | 2440 | 6.05 | ≤30 | PASS |
| | | 2480 | 7.23 | ≤30 | PASS |



Test Graphs Peak



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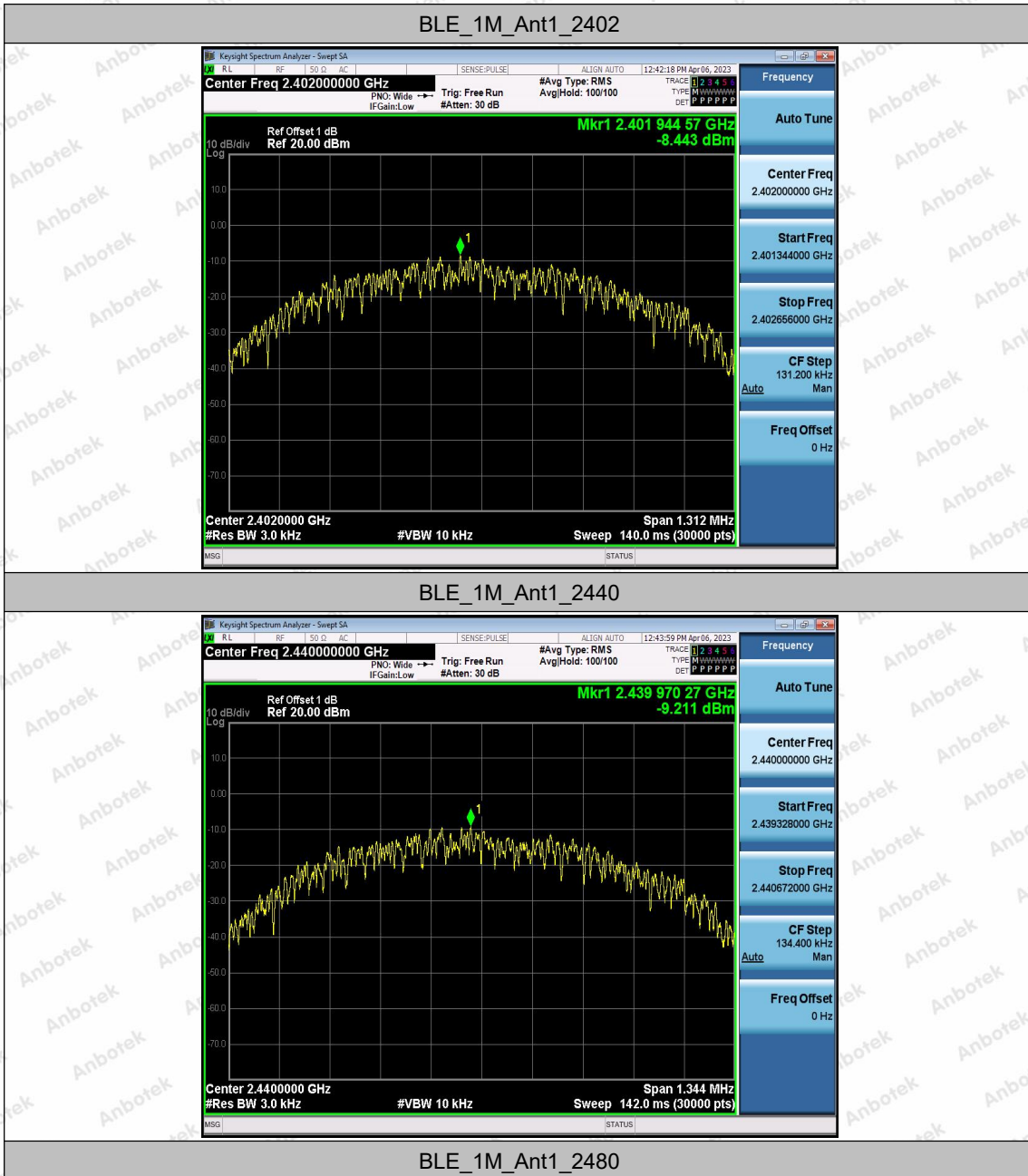
Appendix D: Maximum power spectral density

Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | -8.44 | ≤8.00 | PASS |
| | | 2440 | -9.21 | ≤8.00 | PASS |
| | | 2480 | -8.38 | ≤8.00 | PASS |



Test Graphs

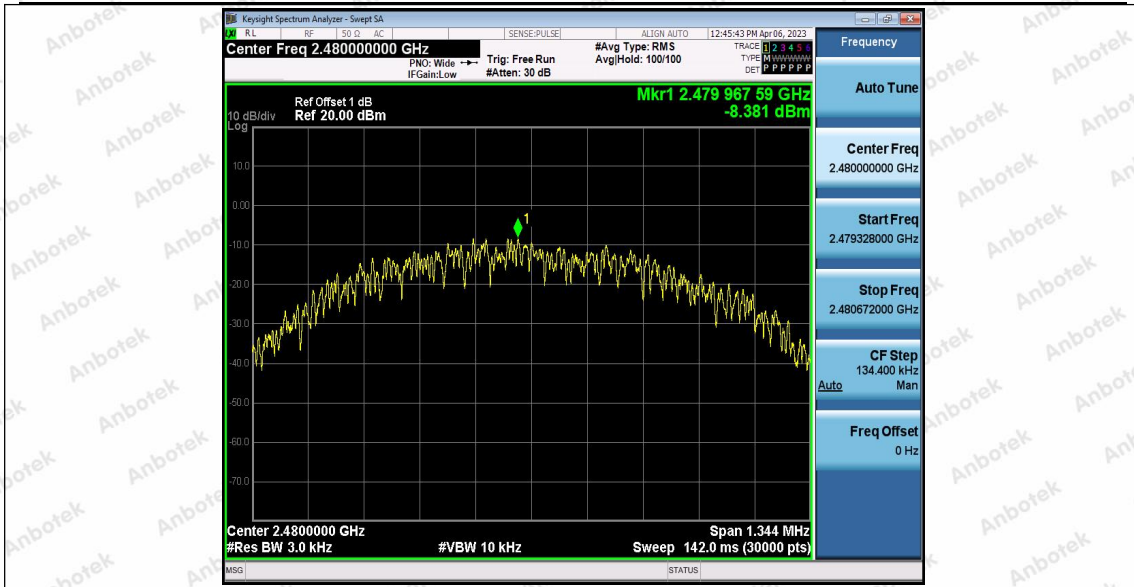


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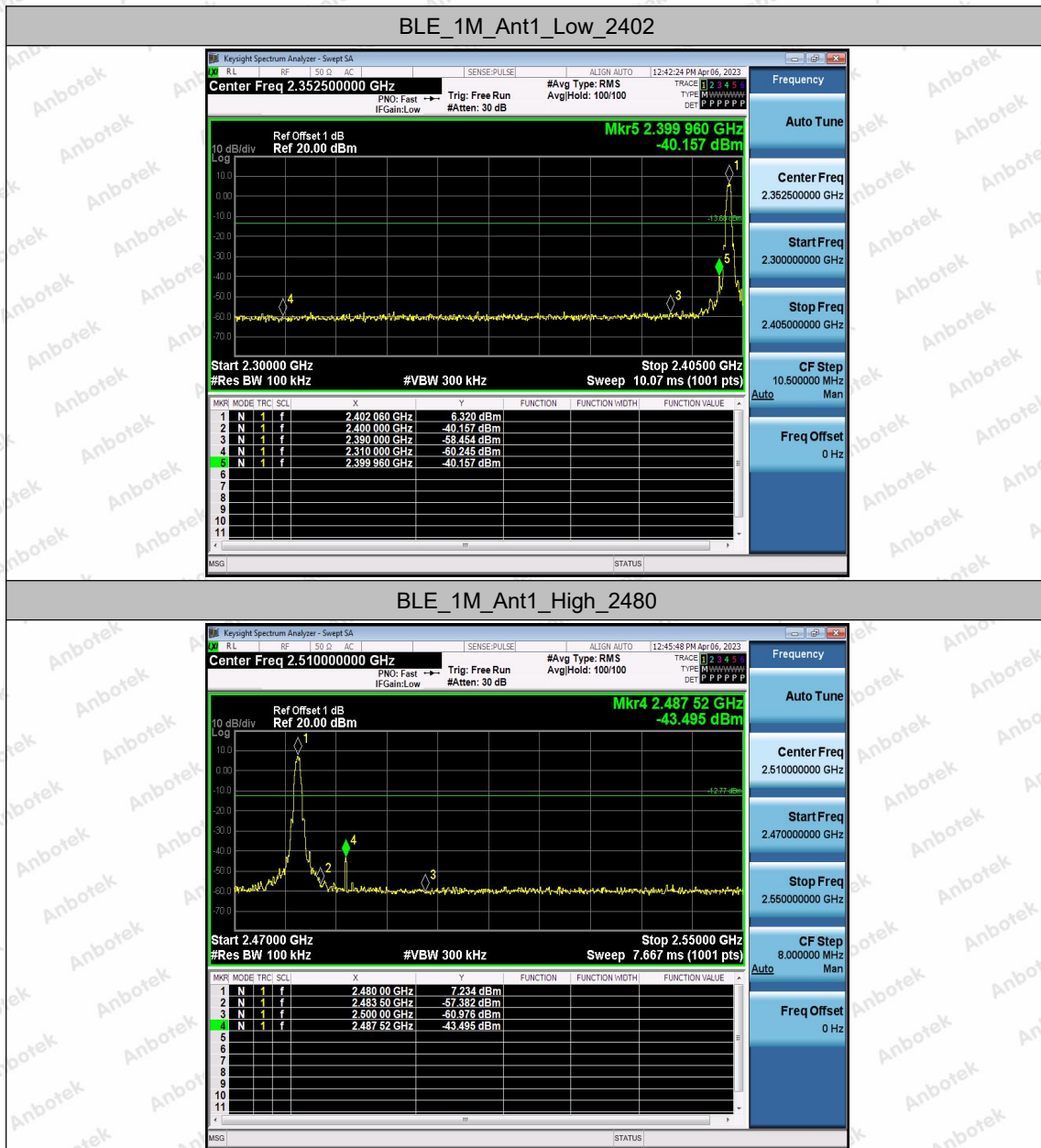


Appendix E: Band edge measurements

Test Result

| TestMode | Antenna | ChName | Frequency [MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------------|---------------|-------------|------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 6.32 | -40.16 | ≤-13.68 | PASS |
| | | High | 2480 | 7.23 | -43.5 | ≤-12.77 | PASS |

Test Graphs



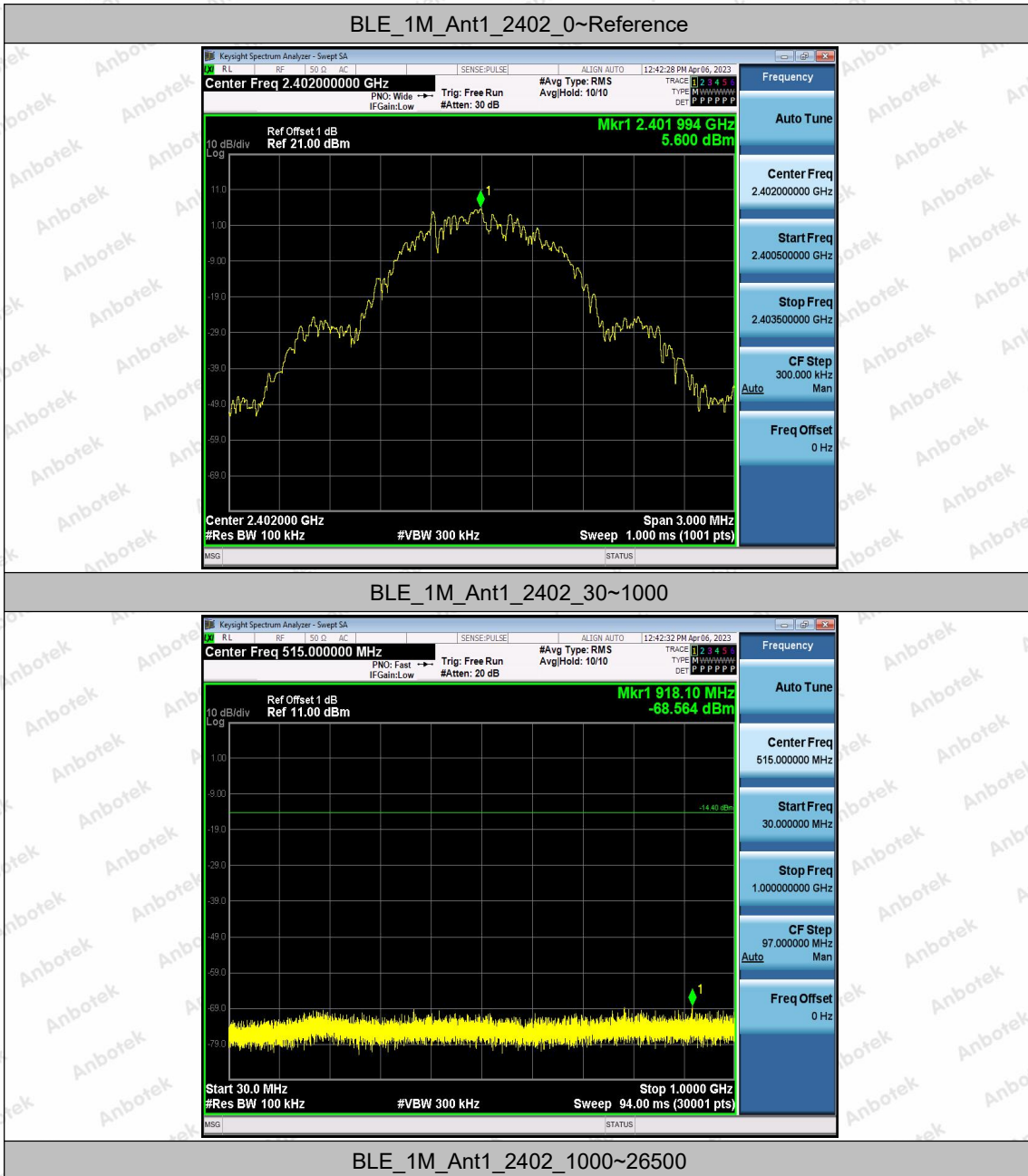
Appendix F: Conducted Spurious Emission

Test Result

| TestMode | Antenna | Frequency [MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M | Ant1 | 2402 | Reference | 5.60 | 5.60 | --- | PASS |
| | | | 30~1000 | 5.60 | -68.56 | ≤-14.4 | PASS |
| | | | 1000~26500 | 5.60 | -52.74 | ≤-14.4 | PASS |
| | | 2440 | Reference | 5.00 | 5.00 | --- | PASS |
| | | | 30~1000 | 5.00 | -68.73 | ≤-15 | PASS |
| | | | 1000~26500 | 5.00 | -52.15 | ≤-15 | PASS |
| | | 2480 | Reference | 5.98 | 5.98 | --- | PASS |
| | | | 30~1000 | 5.98 | -68.03 | ≤-14.02 | PASS |
| | | | 1000~26500 | 5.98 | -53.26 | ≤-14.02 | PASS |



Test Graphs

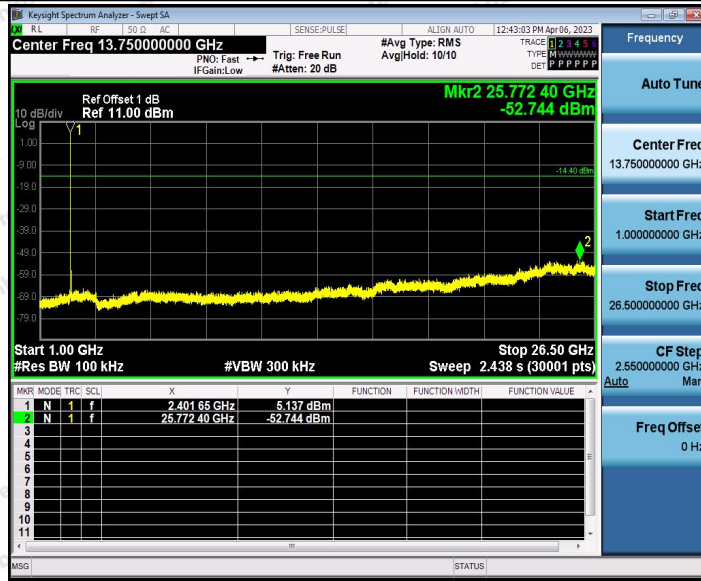


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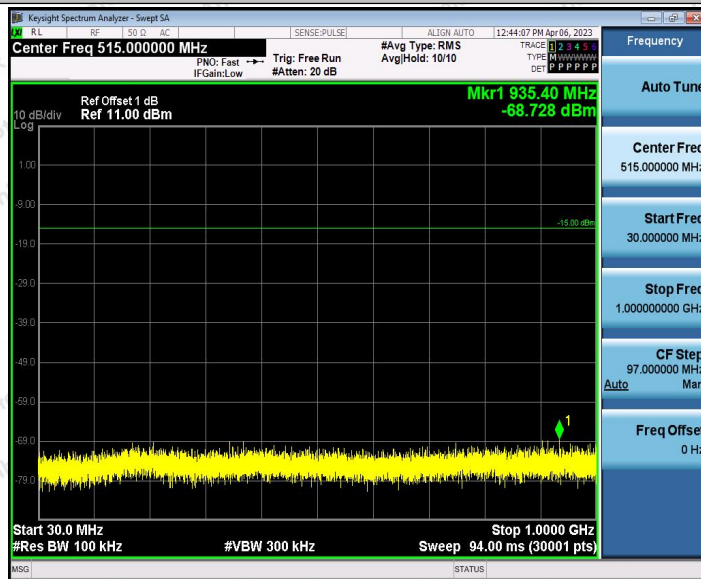




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



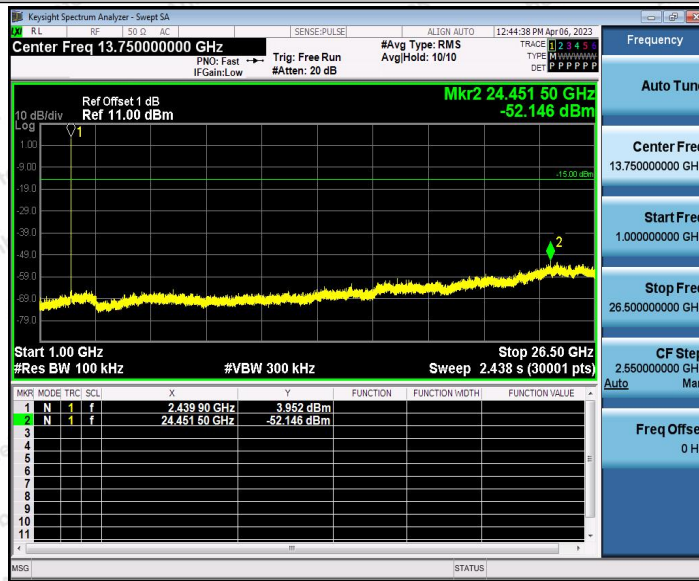
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



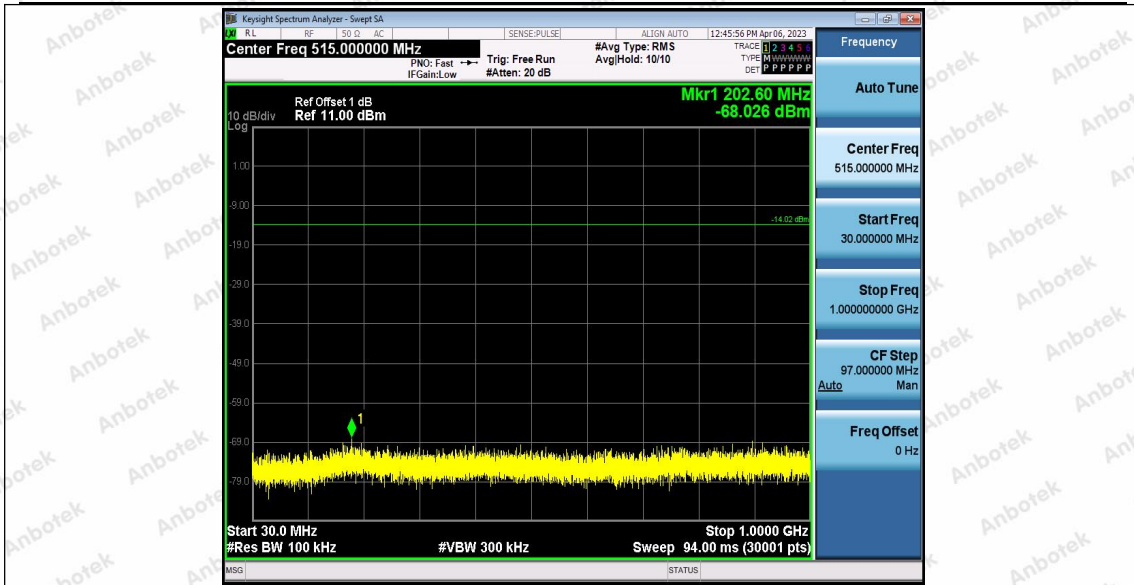
BLE_1M_Ant1_2480_30~1000

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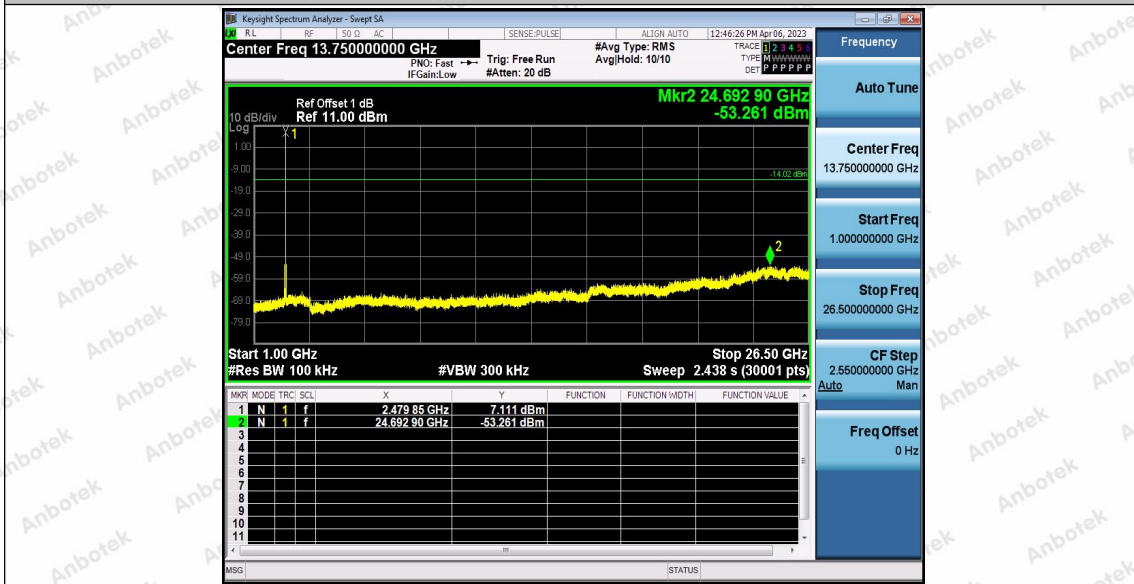
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BLE_1M_Ant1_2480_1000~26500



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Appendix G: Duty Cycle

Test Result

| Test Mode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M | Ant1 | 2402 | 0.39 | 0.63 | 61.90 | 2.08 |
| | | 2440 | 0.39 | 0.63 | 61.90 | 2.08 |
| | | 2480 | 0.39 | 0.63 | 61.90 | 2.08 |

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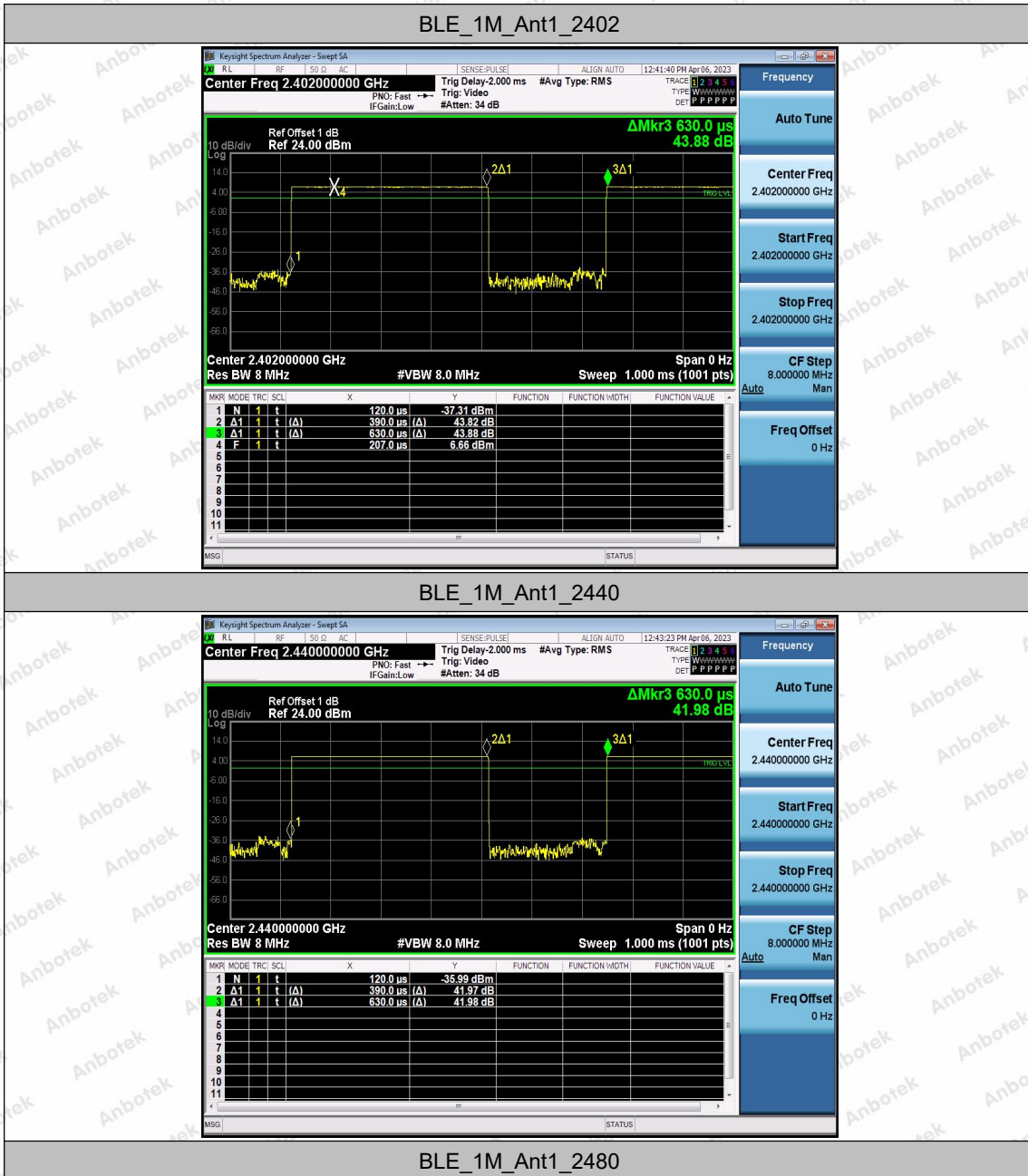
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Test Graphs

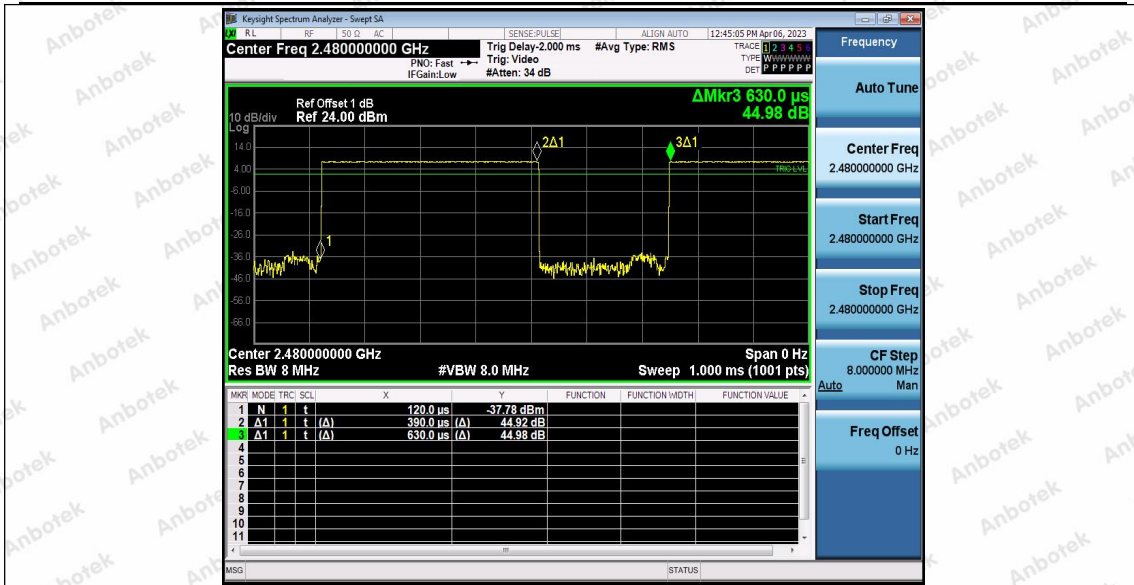


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