

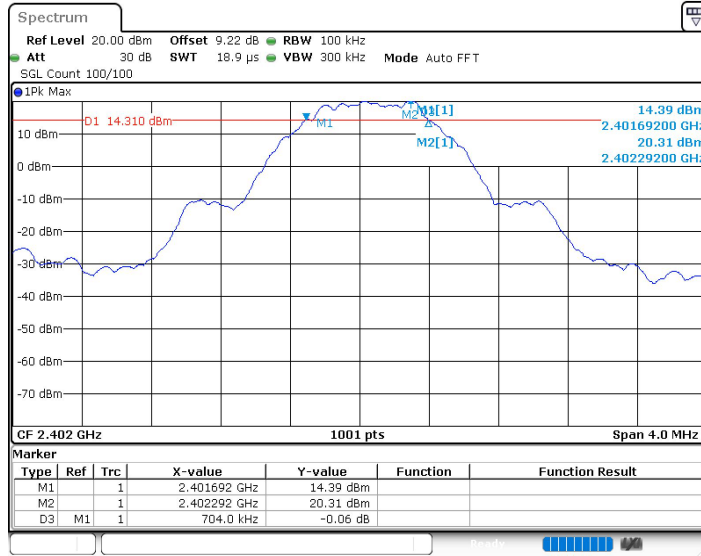
Appendix A: DTS Bandwidth

Test Result

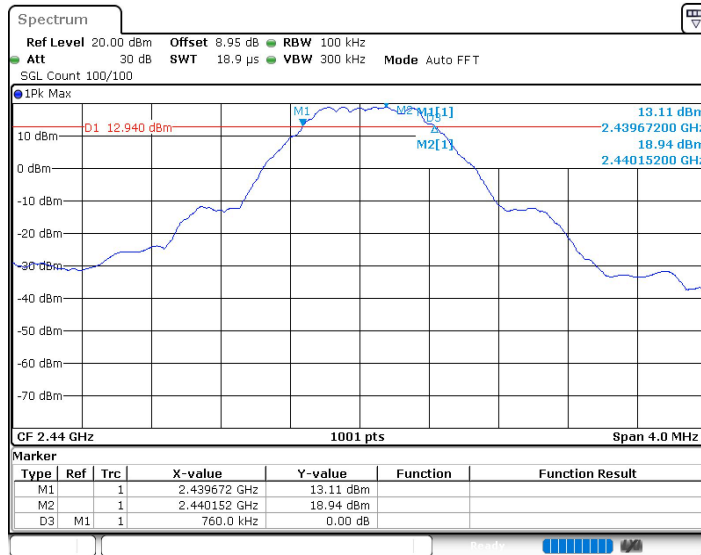
| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|---------|---------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0.70 | 2401.69 | 2402.40 | 0.5 | PASS |
| | | 2440 | 0.76 | 2439.67 | 2440.43 | 0.5 | PASS |
| | | 2480 | 0.72 | 2479.69 | 2480.41 | 0.5 | PASS |

Test Graphs

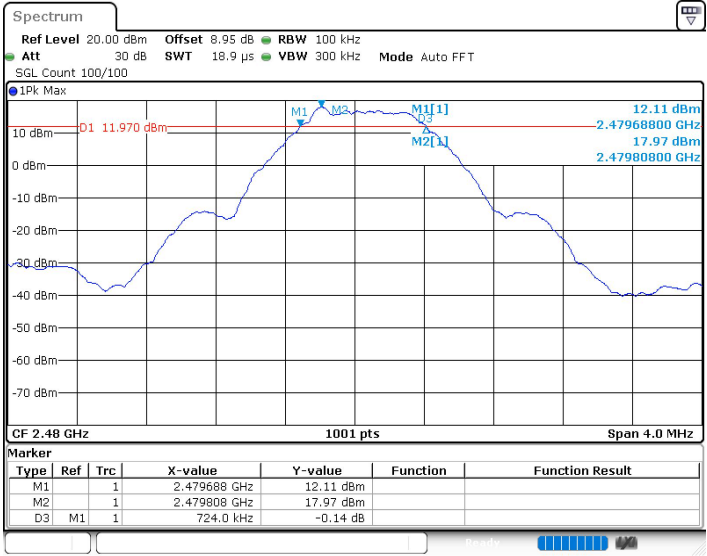
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



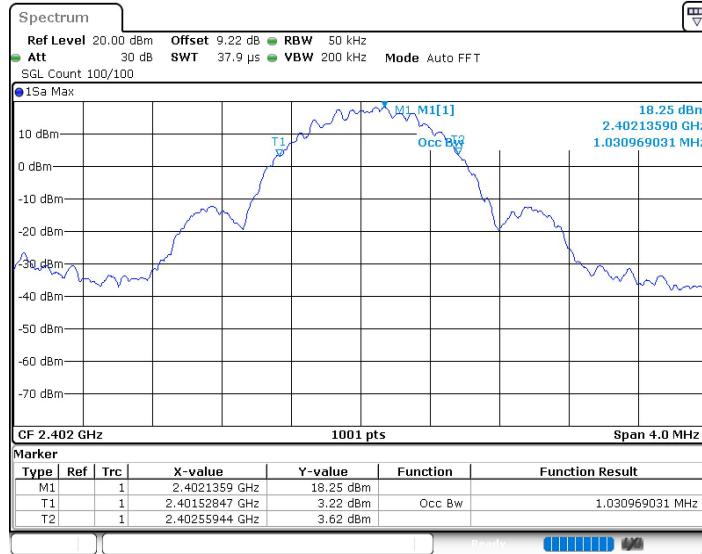
Appendix B: Occupied Channel Bandwidth

Test Result

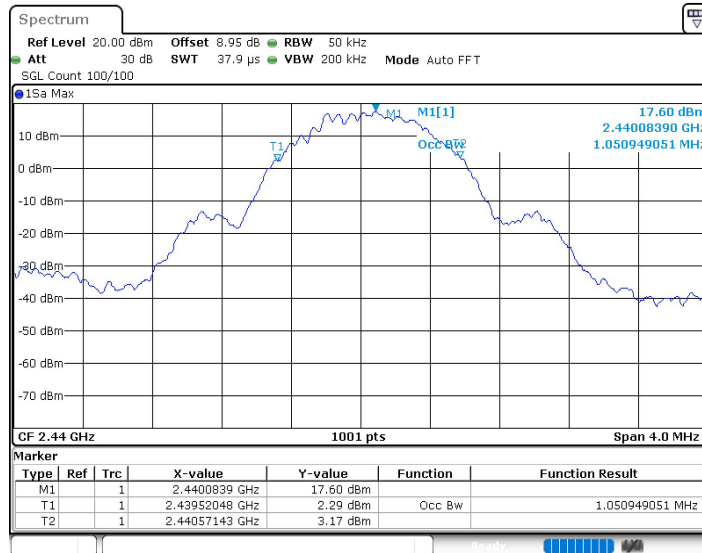
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|-----------|-----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 1.031 | 2401.5285 | 2402.5594 | --- | --- |
| | | 2440 | 1.051 | 2439.5205 | 2440.5714 | --- | --- |
| | | 2480 | 1.039 | 2479.5365 | 2480.5754 | --- | --- |

Test Graphs

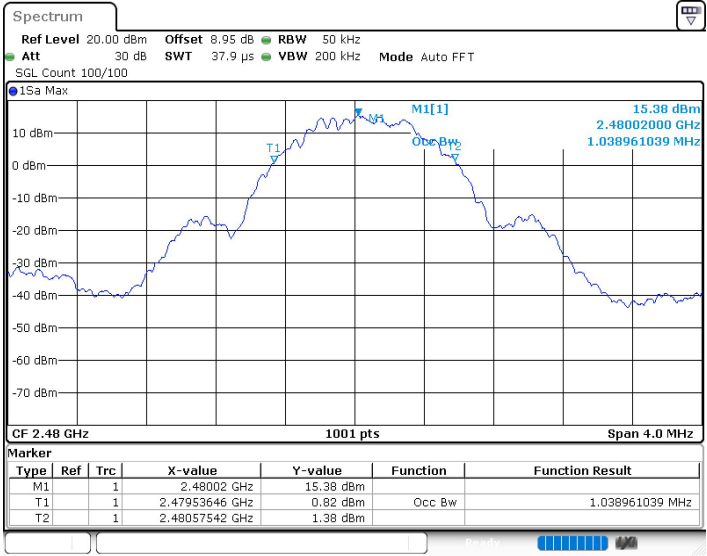
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

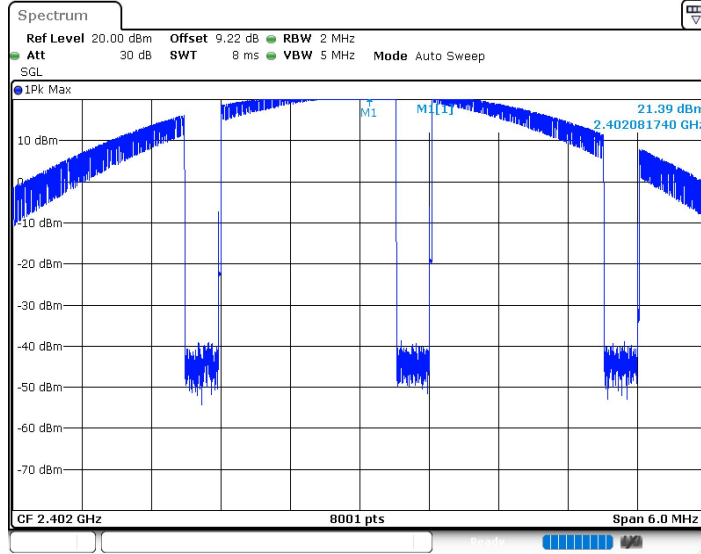
| TestMode | Antenna | Channel | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|---------|---------------------------|----------------------|---------|
| BLE_1M | Ant1 | 2402 | 21.39 | ≤30 | PASS |
| | | 2440 | 20.56 | ≤30 | PASS |
| | | 2480 | 18.55 | ≤30 | PASS |

Test Result Average

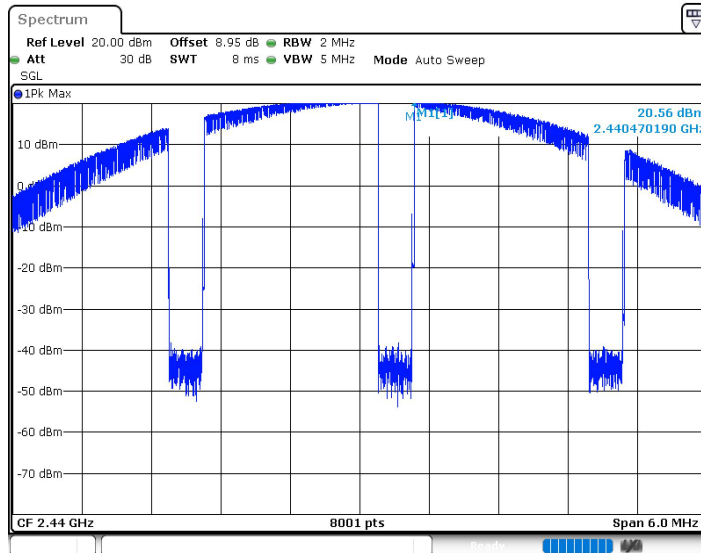
| Test Mode | Antenna | Channel | Conducted Sensor power[dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-----------|---------|---------|-----------------------------|----------------|-----------------|--------------|-------------|------------|------------|------------------|---------|
| TestMode | Antenna | Channel | RawPower | DC | DcFactor or | Result | Limit | Gain | EIRP | Limit1 | Verdict |

Test Graphs Peak

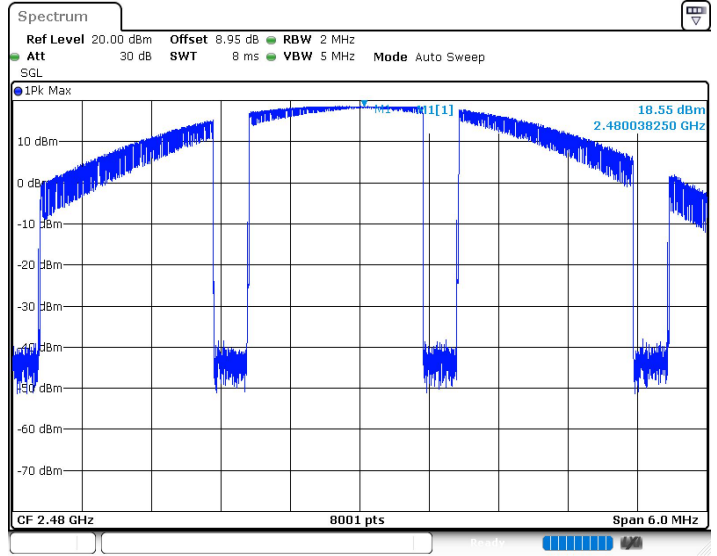
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



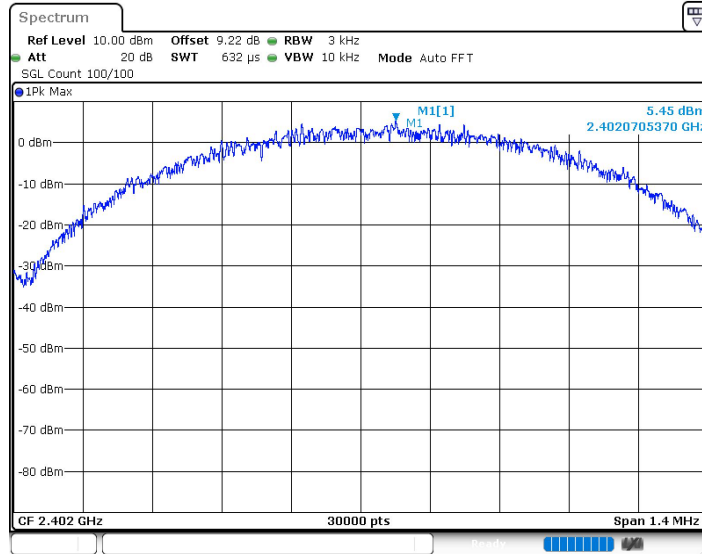
Appendix D: Maximum power spectral density

Test Result

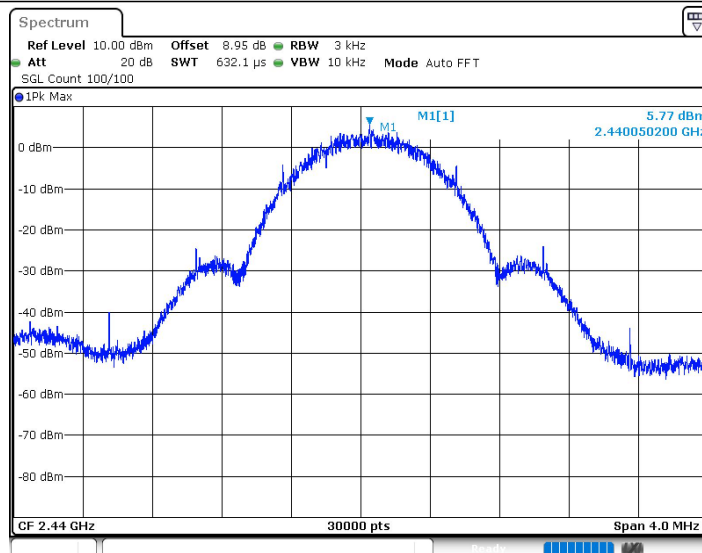
| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | 5.45 | ≤8.00 | PASS |
| | | 2440 | 5.77 | ≤8.00 | PASS |
| | | 2480 | 3.05 | ≤8.00 | PASS |

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

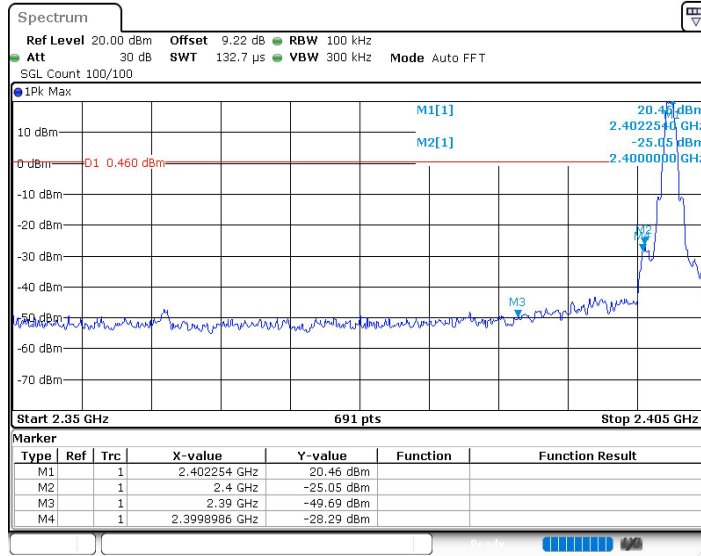
Appendix E: Band edge measurements

Test Result

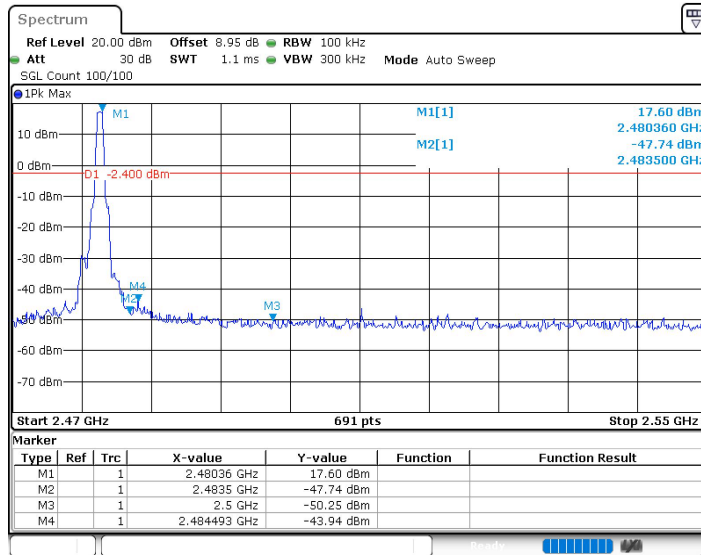
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 20.46 | -28.29 | ≤0.46 | PASS |
| | | High | 2480 | 17.60 | -43.94 | ≤-2.4 | PASS |

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



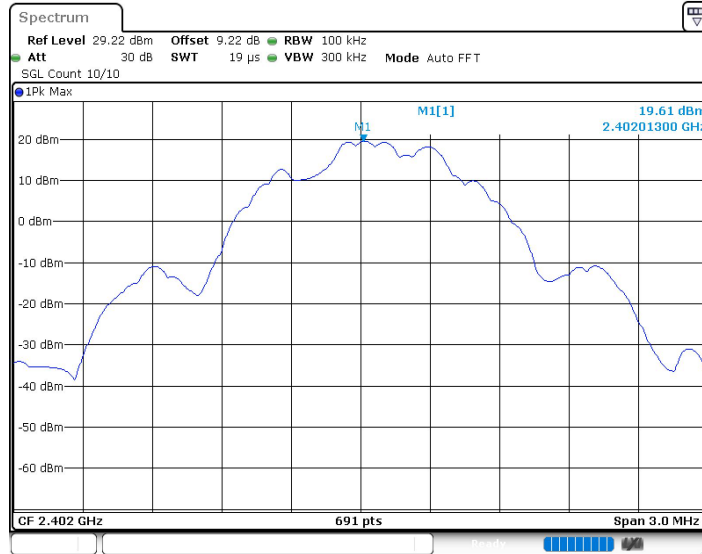
Appendix F: Conducted Spurious Emission

Test Result

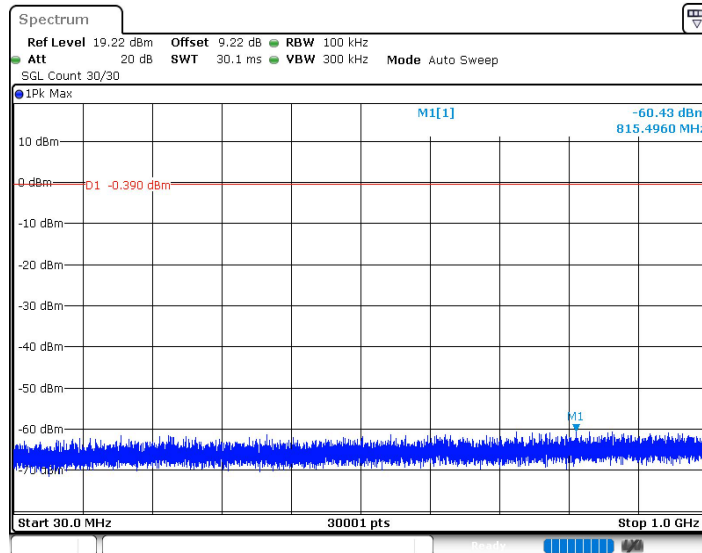
| TestMode | Antenna | Channel | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|-------------|--------------|---------|
| BLE_1M | Ant1 | 2402 | Reference | 19.61 | 19.61 | --- | PASS |
| | | | 30~1000 | 19.61 | -60.43 | ≤ -0.39 | PASS |
| | | | 1000~26500 | 19.61 | -35.98 | ≤ -0.39 | PASS |
| | | 2440 | Reference | 18.25 | 18.25 | --- | PASS |
| | | | 30~1000 | 18.25 | -55.09 | ≤ -1.75 | PASS |
| | | | 1000~26500 | 18.25 | -36.65 | ≤ -1.75 | PASS |
| | | 2480 | Reference | 16.61 | 16.61 | --- | PASS |
| | | | 30~1000 | 16.61 | -60.87 | ≤ -3.39 | PASS |
| | | | 1000~26500 | 16.61 | -41.13 | ≤ -3.39 | PASS |

Test Graphs

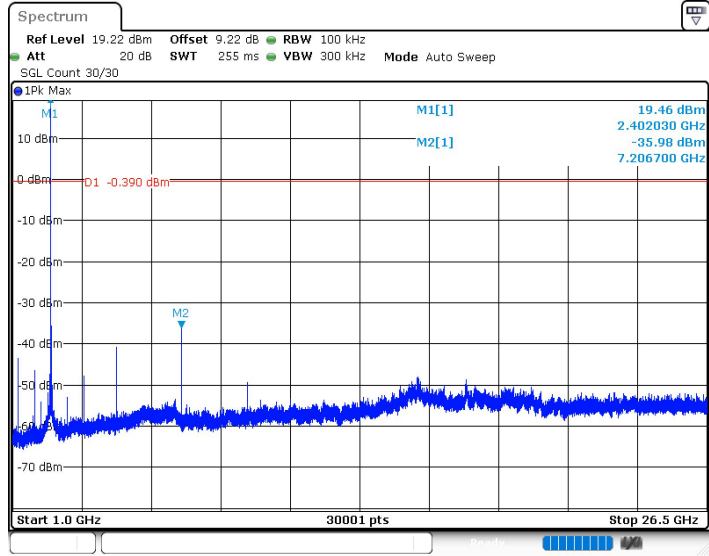
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



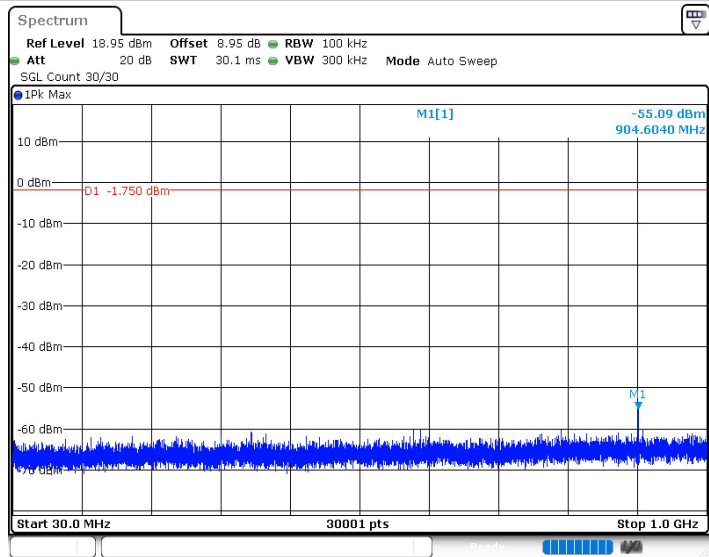
BLE_1M_Ant1_2402_1000~26500



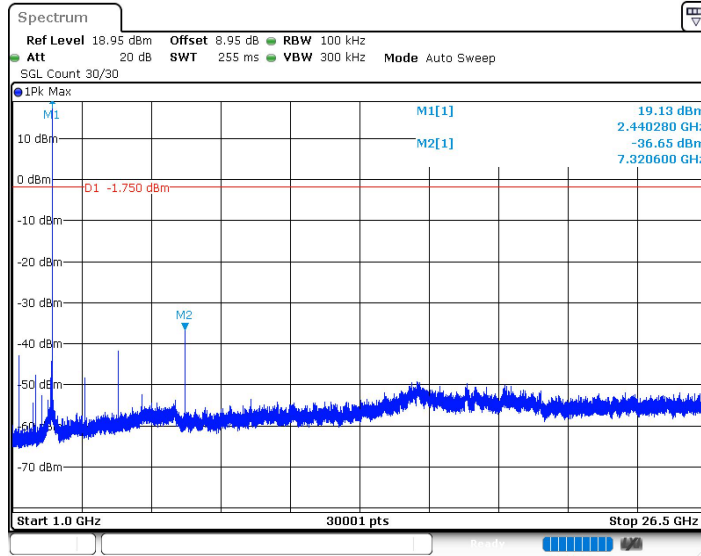
BLE_1M_Ant1_2440_0~Reference



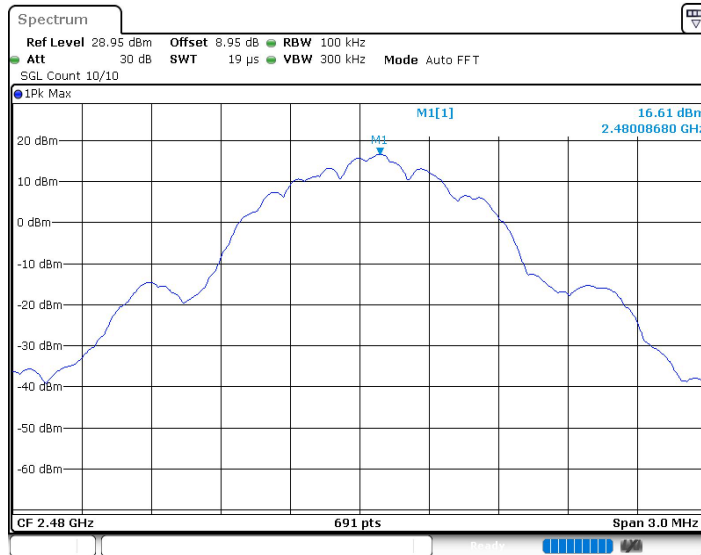
BLE_1M_Ant1_2440_30~1000



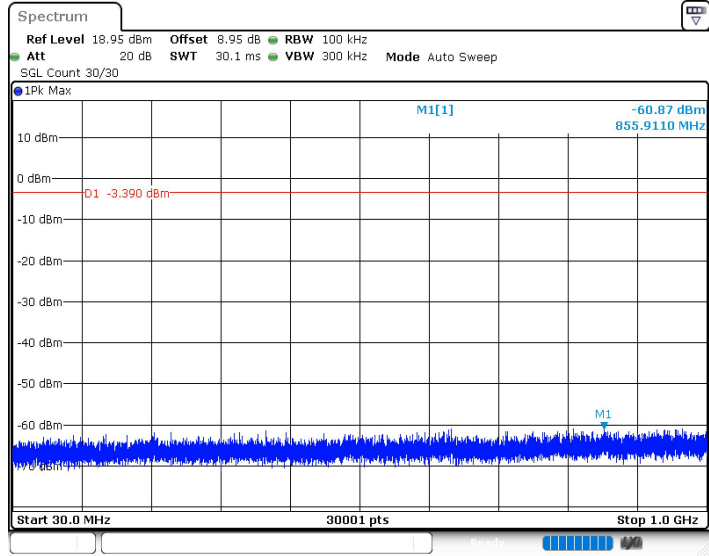
BLE_1M_Ant1_2440_1000~26500



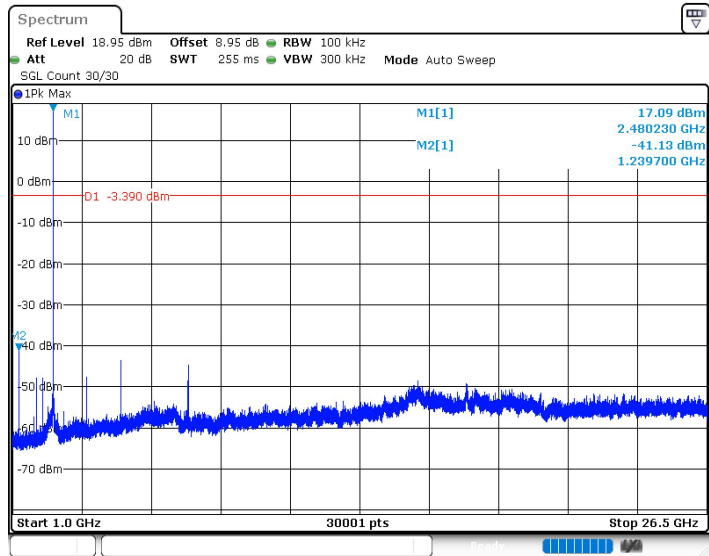
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

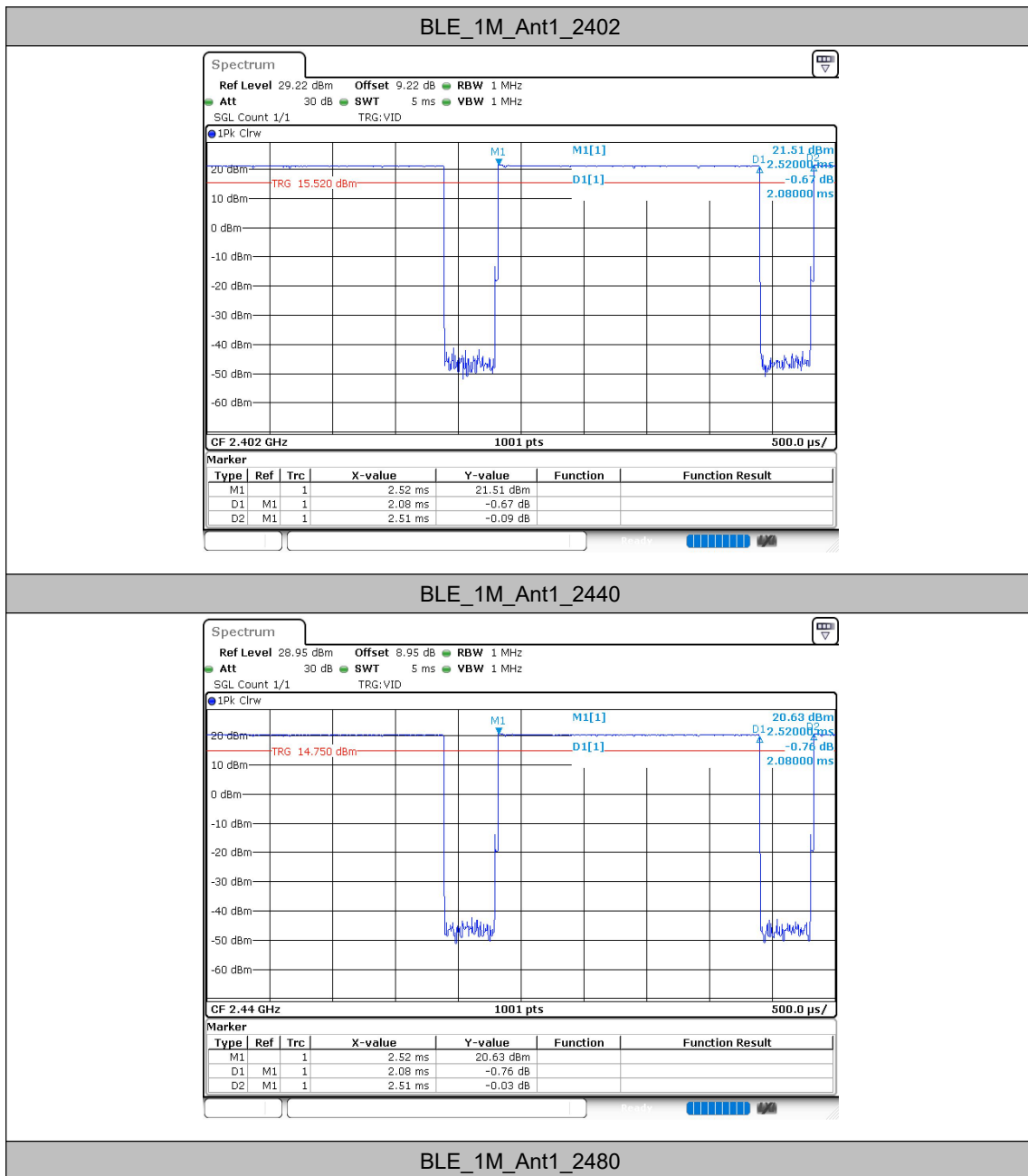


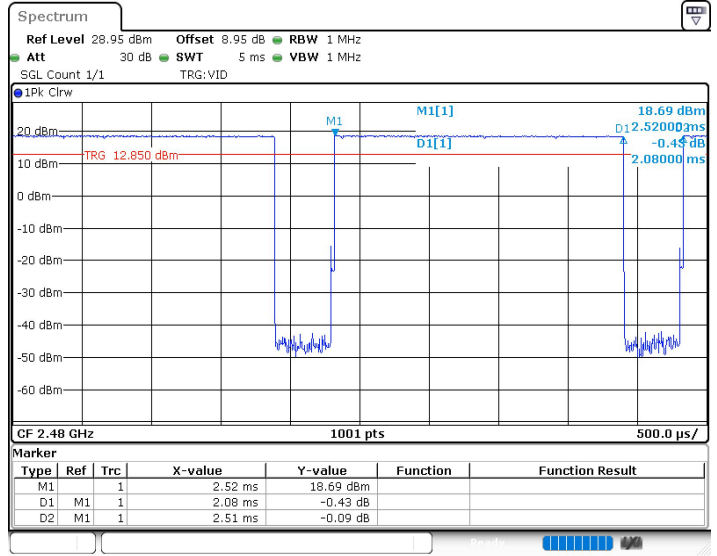
Appendix G: Duty Cycle

Test Result

| TestMode | Antenna | Channel | ON Time [ms] | Period [ms] | X | DC [%] | xFactor | Limit | Verdict |
|----------|---------|---------|--------------|-------------|--------|--------|---------|-------|---------|
| BLE_1M | Ant1 | 2402 | 2.08 | 2.51 | 0.8287 | 82.87 | 0.82 | --- | --- |
| | | 2440 | 2.08 | 2.51 | 0.8287 | 82.87 | 0.82 | --- | --- |
| | | 2480 | 2.08 | 2.51 | 0.8287 | 82.87 | 0.82 | --- | --- |

Test Graphs





Appendix H: Emissions in Restricted Bands

Test Result

| TestMode | Antenna | ChName | Channel | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|----------|---------|--------|---------|----------|---------------|-----------------|----------------|--------------------|-------------------|---------|
| TestMode | Antenna | ChName | Channel | Detector | Freq | Result | Limit | E | Limit1 | Verdict |

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

Emissions in Restricted Bands measurements