



4 Appendix

Appendix A: Duty Cycle

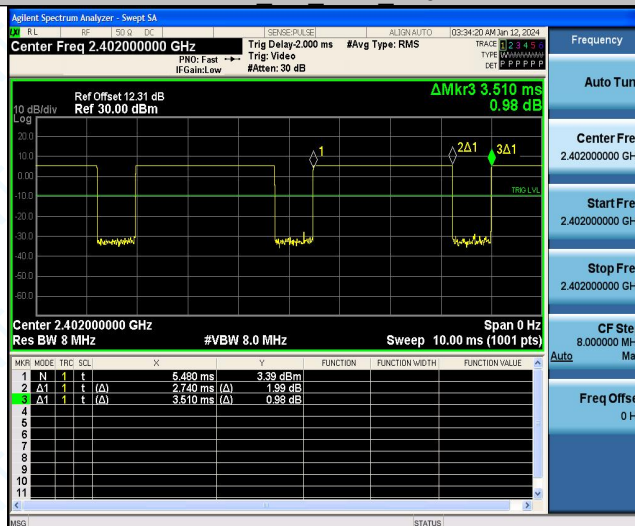
Test Result

| Test Mode | Antenna | Freq(MHz) | ON Time<br>[ms] | Period<br>[ms] | DC [%] |
|-----------|---------|-----------|-----------------|----------------|--------|
| BLE_1M    | Ant1    | 2402      | 2.74            | 3.51           | 78.06  |
|           |         | 2440      | 2.75            | 3.51           | 78.35  |
|           |         | 2480      | 2.74            | 3.51           | 78.06  |

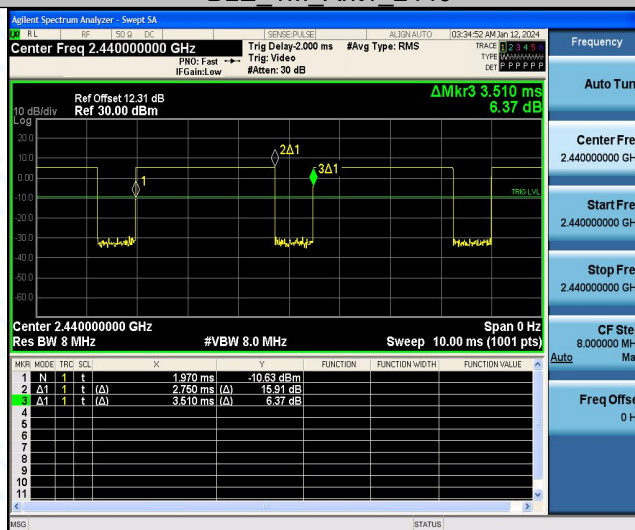


## Test Graphs

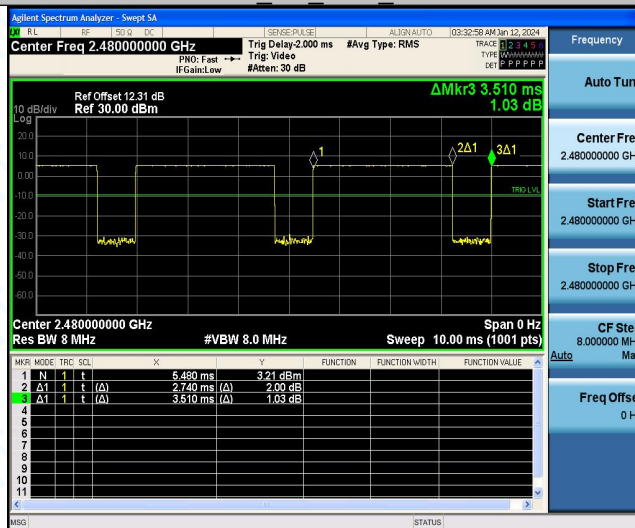
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





Appendix B: DTS Bandwidth

Test Result

| Test Mode | Antenna | Freq(MHz) | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|-----------|--------------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402      | 0.780        | 2401.568 | 2402.348 | 0.5        | PASS    |
|           |         | 2440      | 0.764        | 2439.588 | 2440.352 | 0.5        | PASS    |
|           |         | 2480      | 0.788        | 2479.564 | 2480.352 | 0.5        | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





## Appendix C: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Freq(MHz) | Power [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------|-------------|-------------|---------|
| BLE_1M    | Ant1    | 2402      | 5.54        | ≤30         | PASS    |
|           |         | 2440      | 5.43        | ≤30         | PASS    |
|           |         | 2480      | 5.32        | ≤30         | PASS    |



## Test Graphs

BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480





Appendix D: Maximum power spectral density

Test Result

| Test Mode | Antenna | Freq(MHz) | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|-----------|----------------------|-----------------|---------|
| BLE_1M    | Ant1    | 2402      | -11.6                | ≤8.00           | PASS    |
|           |         | 2440      | -11.74               | ≤8.00           | PASS    |
|           |         | 2480      | -11.19               | ≤8.00           | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





## Appendix E: Band edge measurements

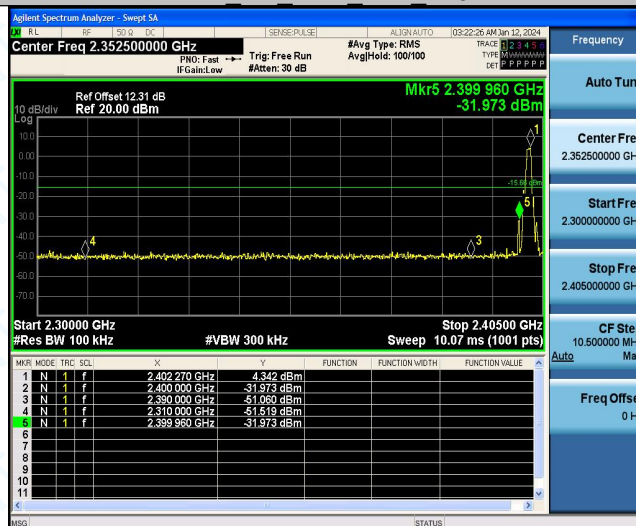
### Test Result

| Test Mode | Antenna | ChName | Freq<br>(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|--------|---------------|---------------|-------------|---------------|---------|
| BLE_1M    | Ant1    | Low    | 2402          | 4.34          | -31.97      | $\leq -15.66$ | PASS    |
|           |         | High   | 2480          | 4.01          | -46.86      | $\leq -15.99$ | PASS    |

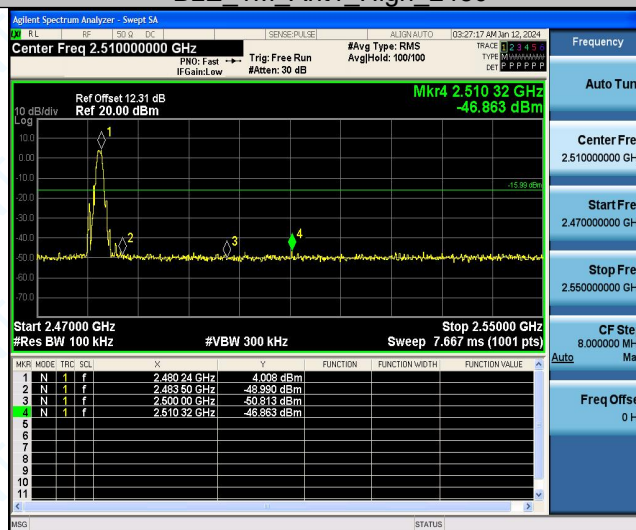


## Test Graphs

BLE 1M Ant1 Low 2402



BLE 1M Ant1 High 2480





## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Freq(MHz) | Freq Range [Mhz] | Ref Level [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|-----------|------------------|-----------------|--------------|---------------|---------|
| BLE_1M    | Ant1    | 2402      | Reference        | 4.14            | 4.14         | ---           | PASS    |
|           |         |           | 30~1000          | 4.14            | -57.62       | $\leq -15.86$ | PASS    |
|           |         |           | 1000~26500       | 4.14            | -48.85       | $\leq -15.86$ | PASS    |
|           |         | 2440      | Reference        | 4.16            | 4.16         | ---           | PASS    |
|           |         |           | 30~1000          | 4.16            | -57.37       | $\leq -15.84$ | PASS    |
|           |         |           | 1000~26500       | 4.16            | -49.07       | $\leq -15.84$ | PASS    |
|           |         | 2480      | Reference        | 3.94            | 3.94         | ---           | PASS    |
|           |         |           | 30~1000          | 3.94            | -58.25       | $\leq -16.06$ | PASS    |
|           |         |           | 1000~26500       | 3.94            | -48.06       | $\leq -16.06$ | PASS    |

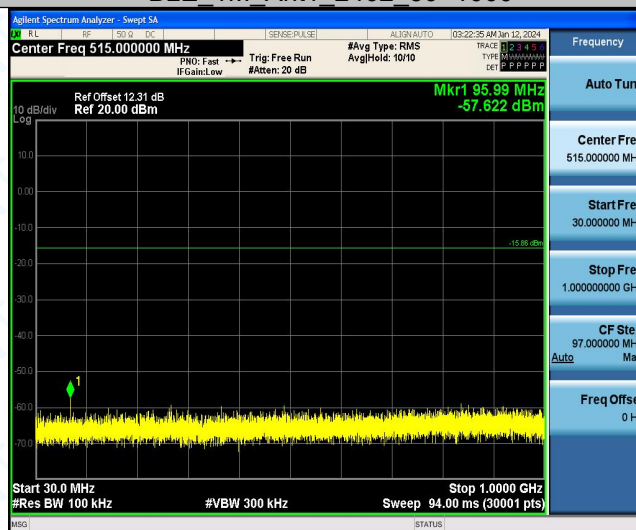


## Test Graphs

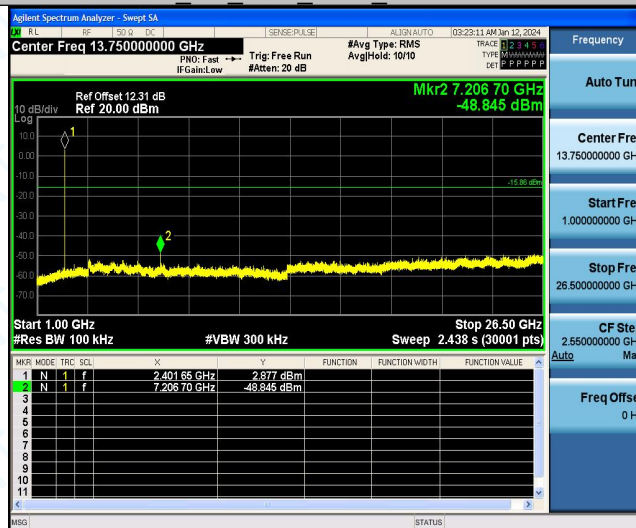
BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

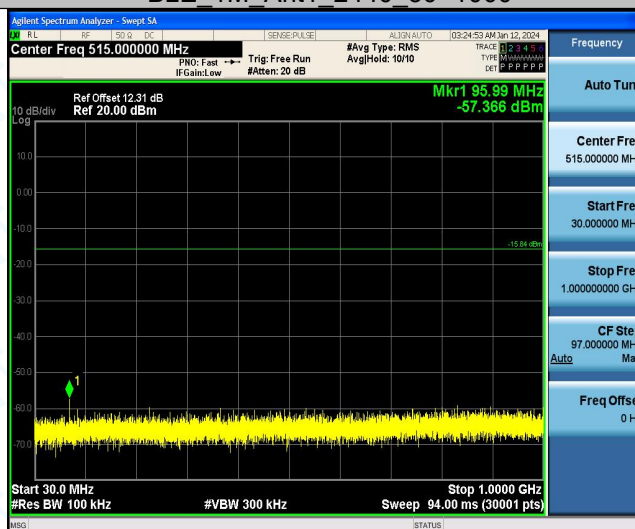




## BLE 1M Ant1 2440 0~Reference



## BLE 1M Ant1 2440 30~1000



## BLE 1M Ant1 2440 1000~26500

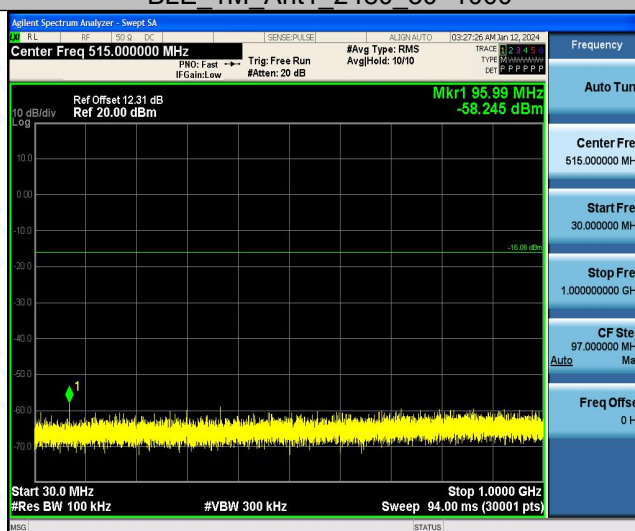




## BLE 1M Ant1 2480 0~Reference



## BLE 1M Ant1 2480 30~1000



## BLE 1M Ant1 2480 1000~26500



The End Report

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