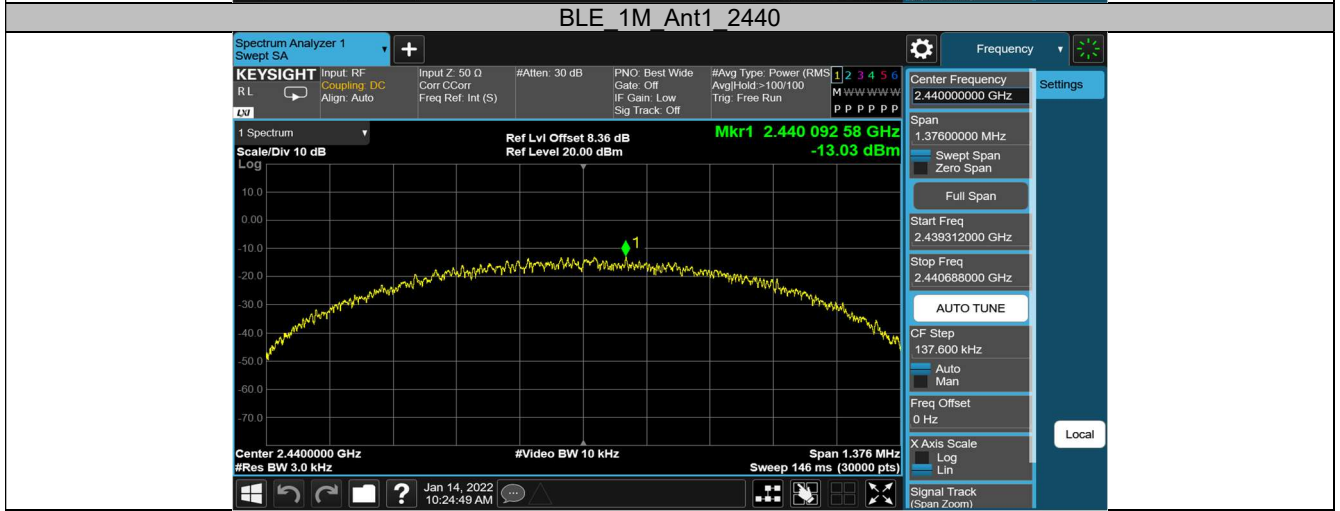


Appendix C: Test Results of Bluetooth Low Energy

| | |
|---|----|
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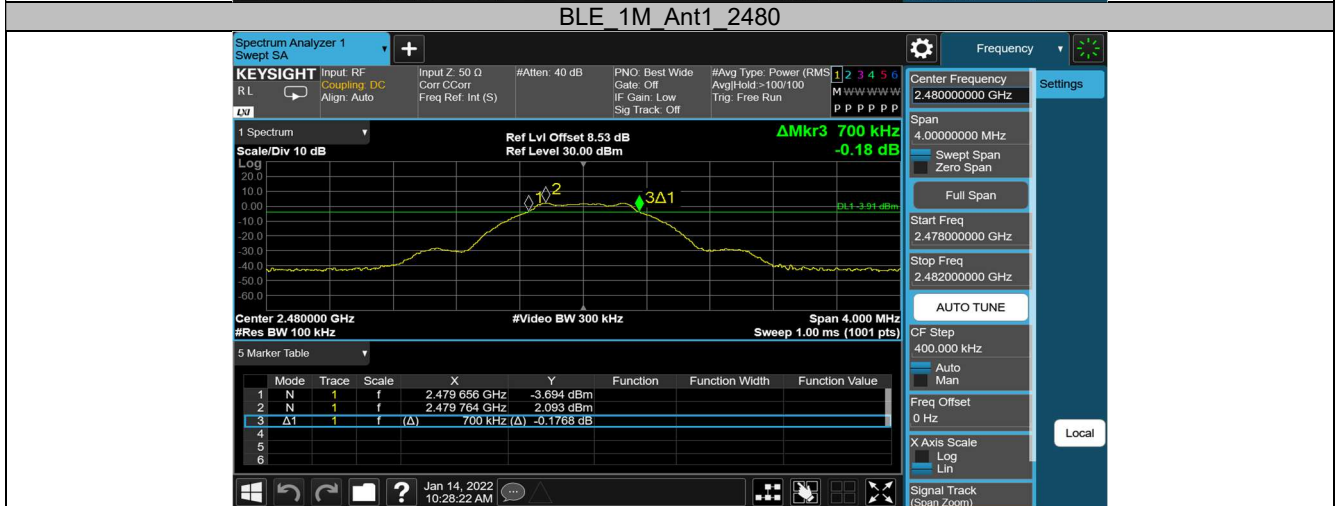
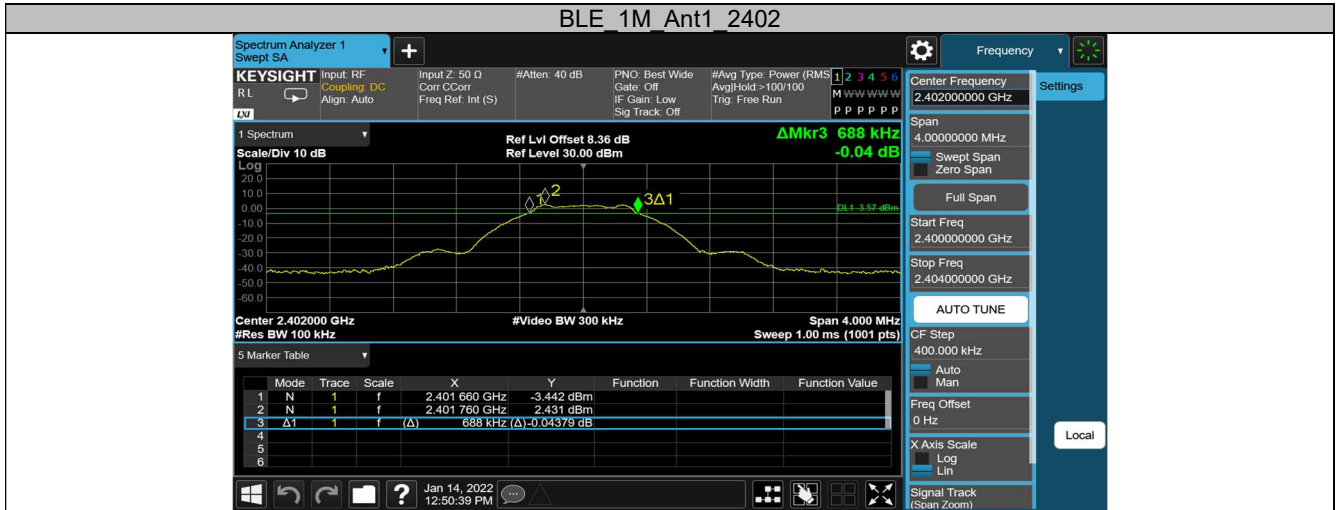
Appendix C.1: Test Results of Conducted Power Spectral Density

| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | -12.27 | ≤8 | PASS |
| | | 2440 | -13.03 | ≤8 | PASS |
| | | 2480 | -12.81 | ≤8 | PASS |



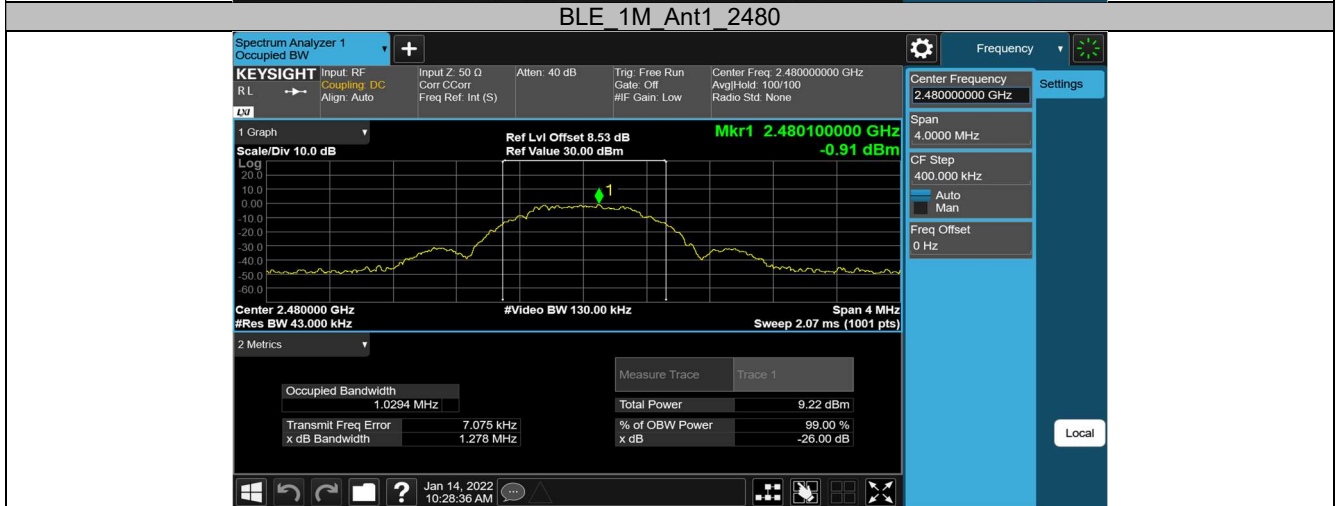
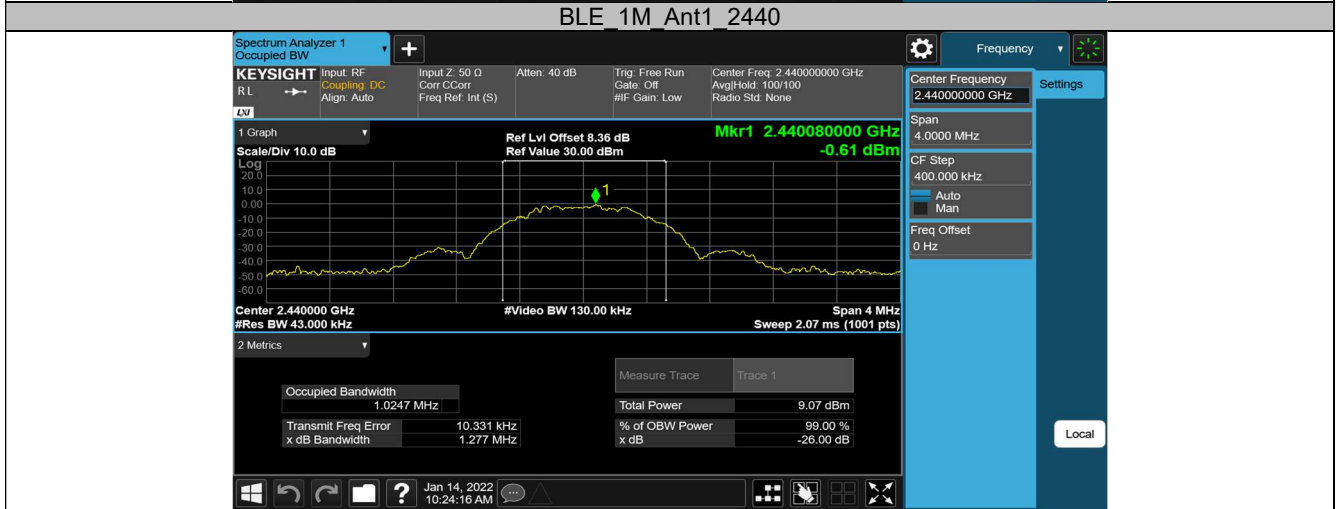
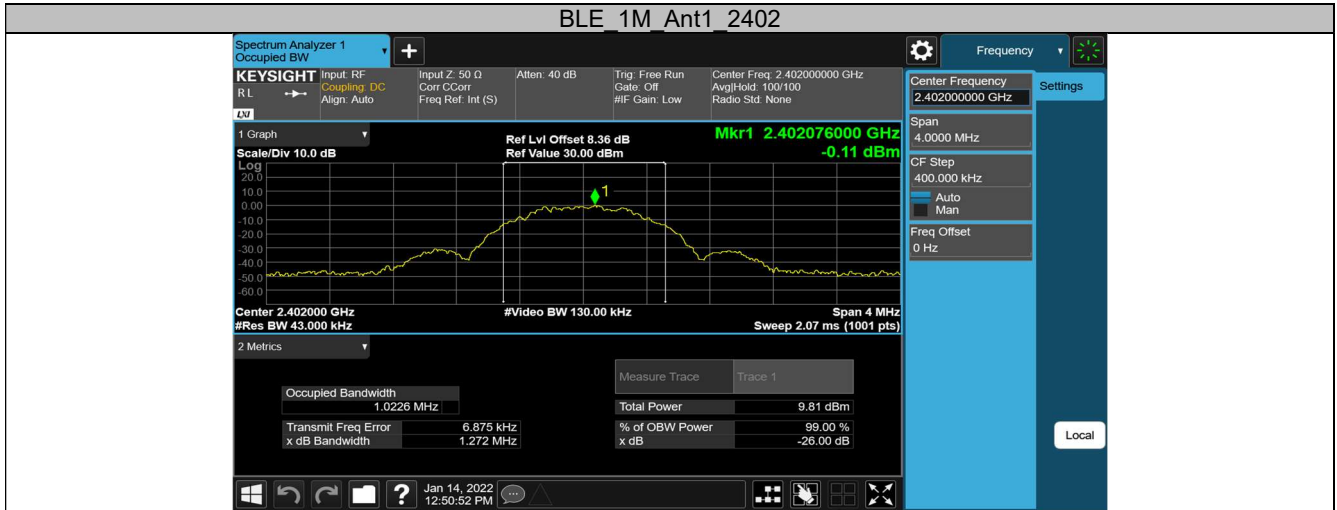
Appendix C.2: Test Results of 6dB Bandwidth

| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0.688 | 2401.660 | 2402.348 | 0.5 | PASS |
| | | 2440 | 0.688 | 2439.668 | 2440.356 | 0.5 | PASS |
| | | 2480 | 0.700 | 2479.656 | 2480.356 | 0.5 | PASS |



Appendix C.3: Test Results of 99% Bandwidth

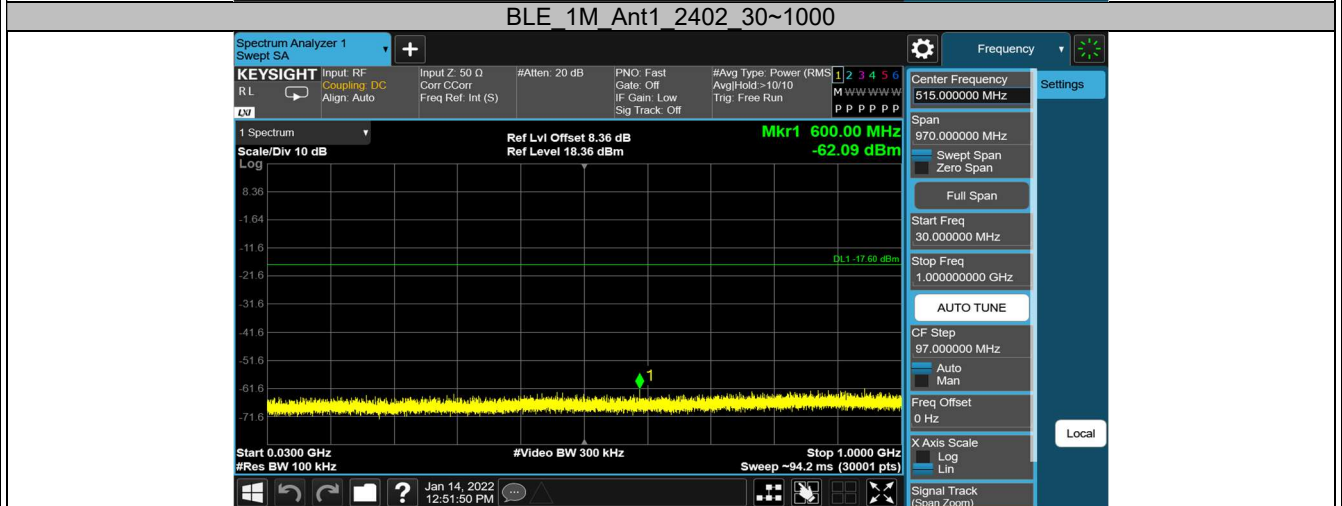
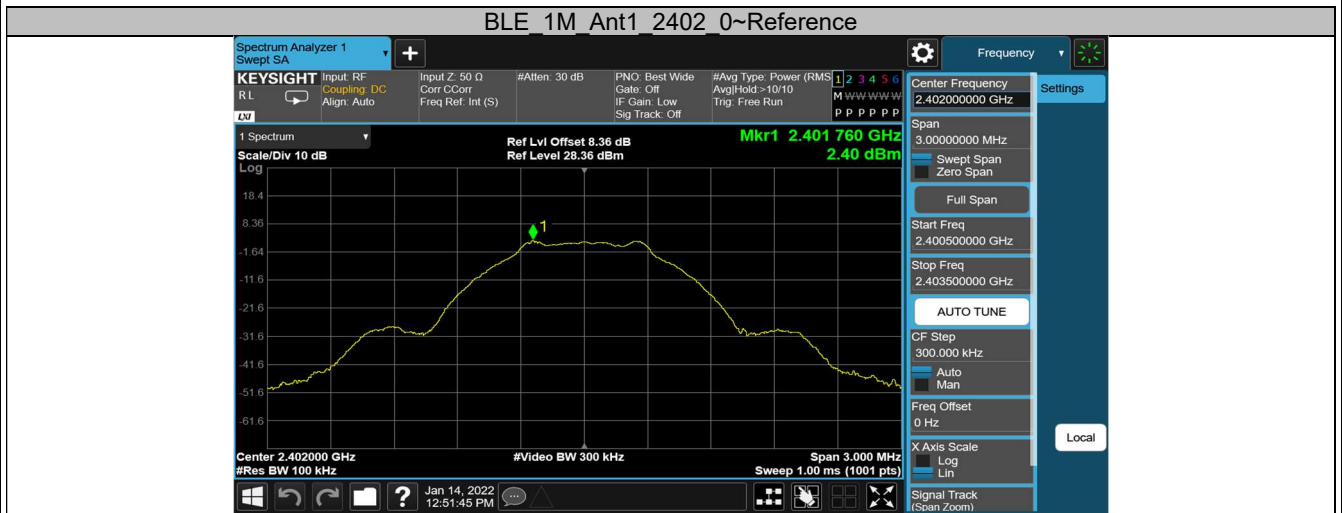
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 1.0226 | 2401.496 | 2402.518 | --- | PASS |
| | | 2440 | 1.0247 | 2439.498 | 2440.523 | --- | PASS |
| | | 2480 | 1.0294 | 2479.492 | 2480.522 | --- | PASS |



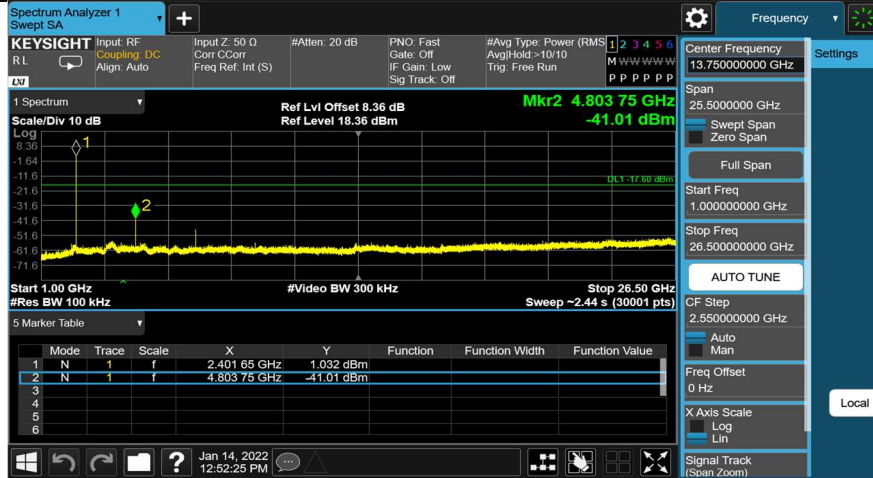
Appendix C.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

| TestMode | Antenna | Channel | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|-------------|------------|---------|
| BLE_1M | Ant1 | 2402 | Reference | 2.40 | 2.40 | --- | PASS |
| | | | 30~1000 | 2.40 | -62.09 | ≤-17.6 | PASS |
| | | | 1000~26500 | 2.40 | -41.01 | ≤-17.6 | PASS |
| | | 2440 | Reference | 1.98 | 1.98 | --- | PASS |
| | | | 30~1000 | 1.98 | -61.77 | ≤-18.02 | PASS |
| | | | 1000~26500 | 1.98 | -44.24 | ≤-18.02 | PASS |
| | | 2480 | Reference | 2.09 | 2.09 | --- | PASS |
| | | | 30~1000 | 2.09 | -61.29 | ≤-17.91 | PASS |
| | | | 1000~26500 | 2.09 | -44.85 | ≤-17.91 | PASS |



BLE 1M Ant1 2402 1000~26500



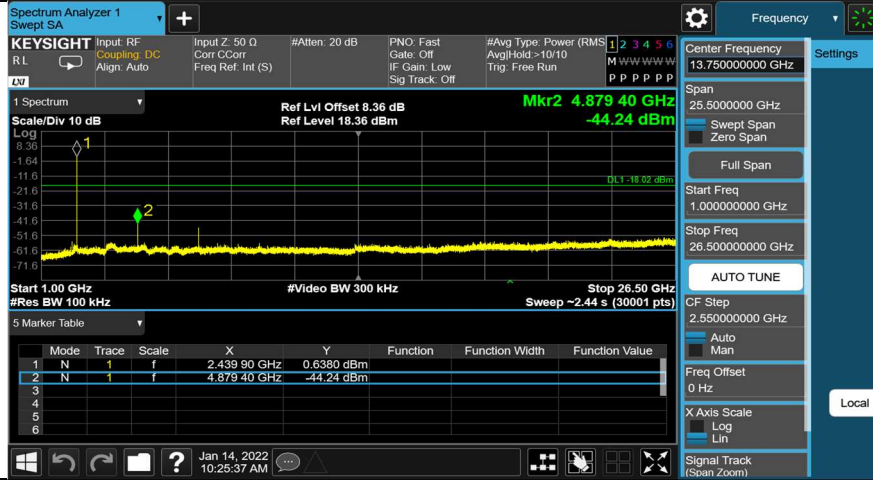
BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000



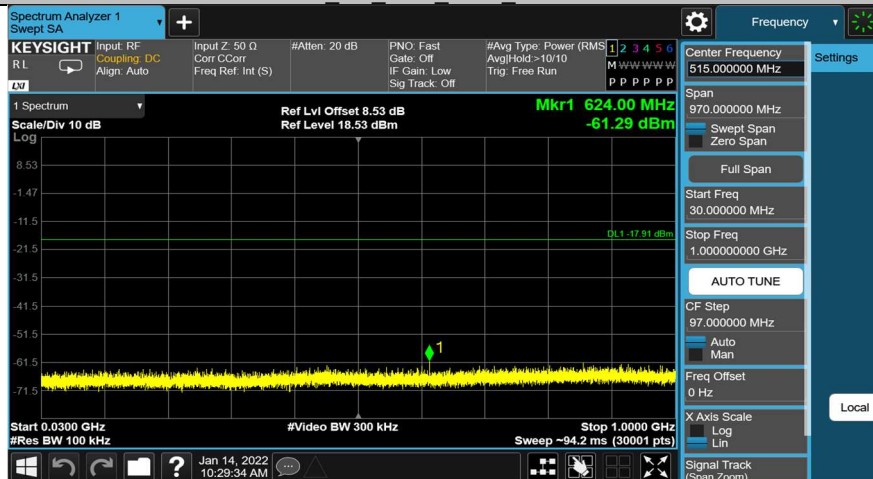
BLE 1M Ant1 2440 1000~26500



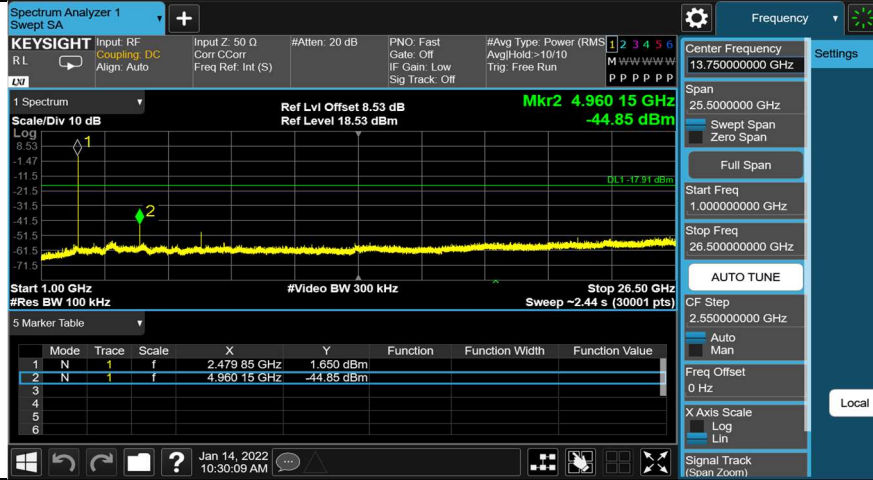
BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000

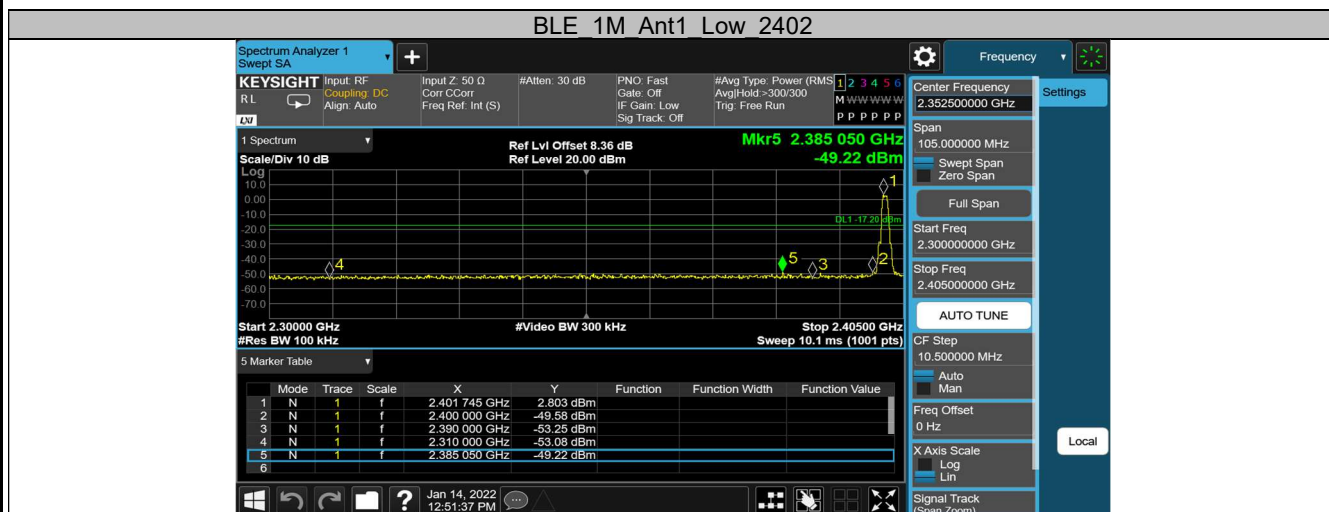


BLE 1M Ant1 2480 1000~26500



Band Edge

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 2.80 | -49.22 | ≤-17.2 | PASS |
| | | High | 2480 | 2.23 | -49.28 | ≤-17.77 | PASS |



Appendix C.5: Test Results of Radiated Spurious Emissions

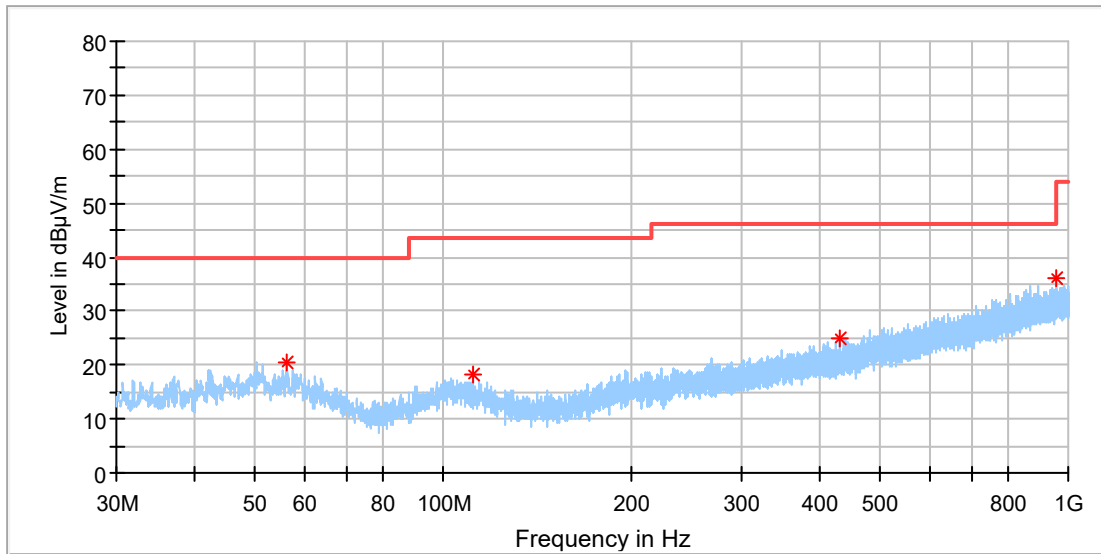
Note:

- 1) This testing was carried out on different modulations, 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 to 1GHz

EUT Information

| | |
|---------------------|--------------------------|
| EUT Name: | Bluetooth Speaker |
| Model: | M02 |
| Test Mode: | BLE 1M_Mid channel |
| Order No/Sample No: | 168334216/A003201415-002 |
| Test Voltage: | AC 120V, 60Hz |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |



Critical Freqs

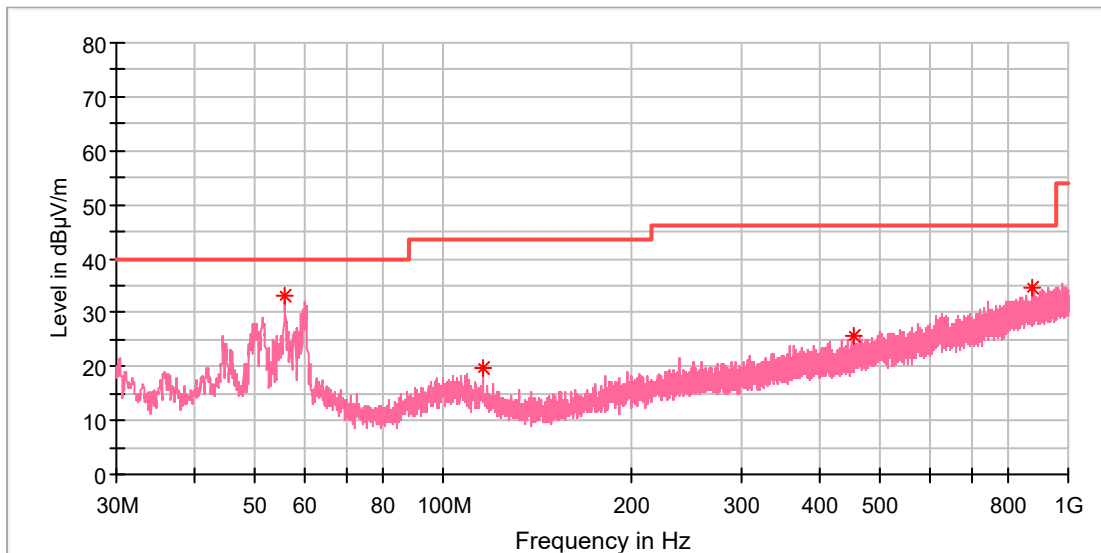
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 56.335500 | 20.58 | 40.00 | 19.42 | 100.0 | H | 263.0 | -18.6 |
| 111.577000 | 18.31 | 43.50 | 25.19 | 100.0 | H | 166.0 | -19.3 |
| 431.483000 | 24.81 | 46.00 | 21.19 | 100.0 | H | 166.0 | -13.3 |
| 953.682500 | 36.25 | 46.00 | 9.75 | 100.0 | H | 273.0 | -4.3 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003201415-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

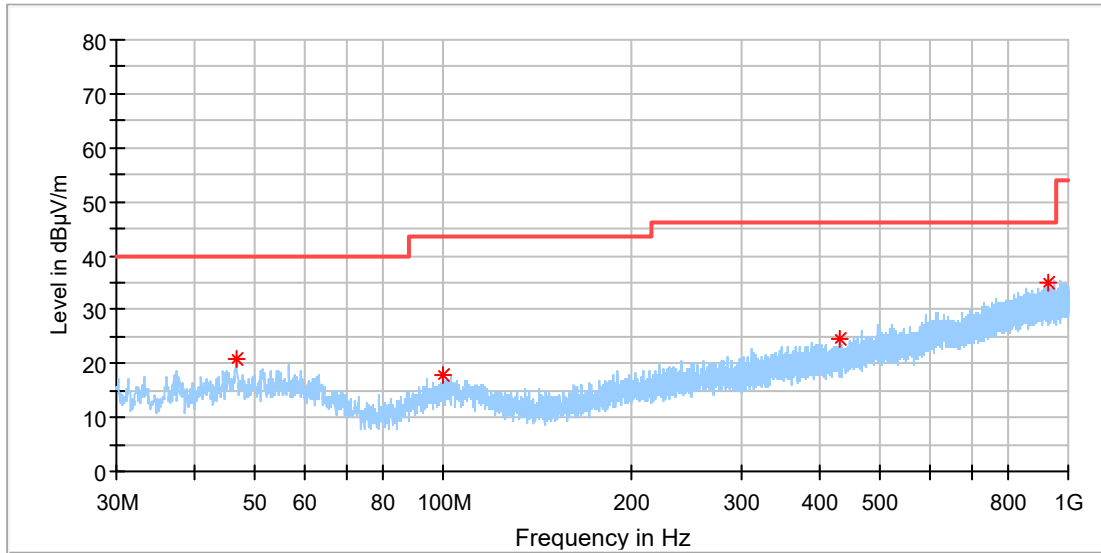
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 55.705000 | 33.00 | 40.00 | 7.01 | 100.0 | V | 308.0 | -18.5 |
| 115.602500 | 19.59 | 43.50 | 23.91 | 100.0 | V | 220.0 | -19.9 |
| 453.696000 | 25.84 | 46.00 | 20.16 | 100.0 | V | 2.0 | -12.8 |
| 875.549000 | 34.69 | 46.00 | 11.31 | 100.0 | V | 24.0 | -5.2 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M03
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003187210-001
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

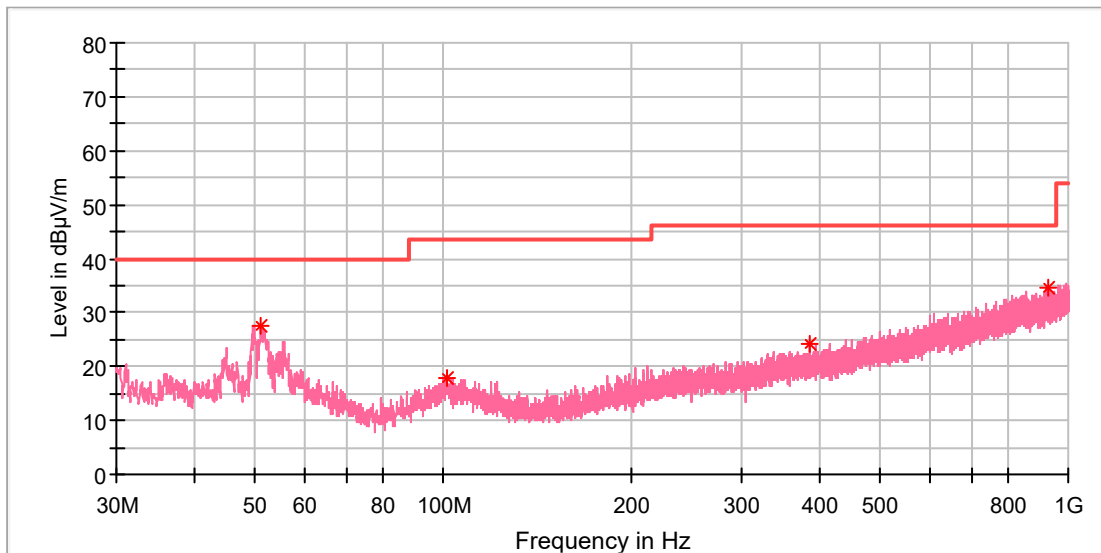
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 46.635500 | 20.66 | 40.00 | 19.34 | 100.0 | H | 0.0 | -18.6 |
| 100.228000 | 17.84 | 43.50 | 25.66 | 100.0 | H | 1.0 | -19.0 |
| 432.307500 | 24.57 | 46.00 | 21.43 | 100.0 | H | 280.0 | -13.3 |
| 925.455500 | 35.14 | 46.00 | 10.86 | 100.0 | H | 260.0 | -4.7 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M03
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003187210-001
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

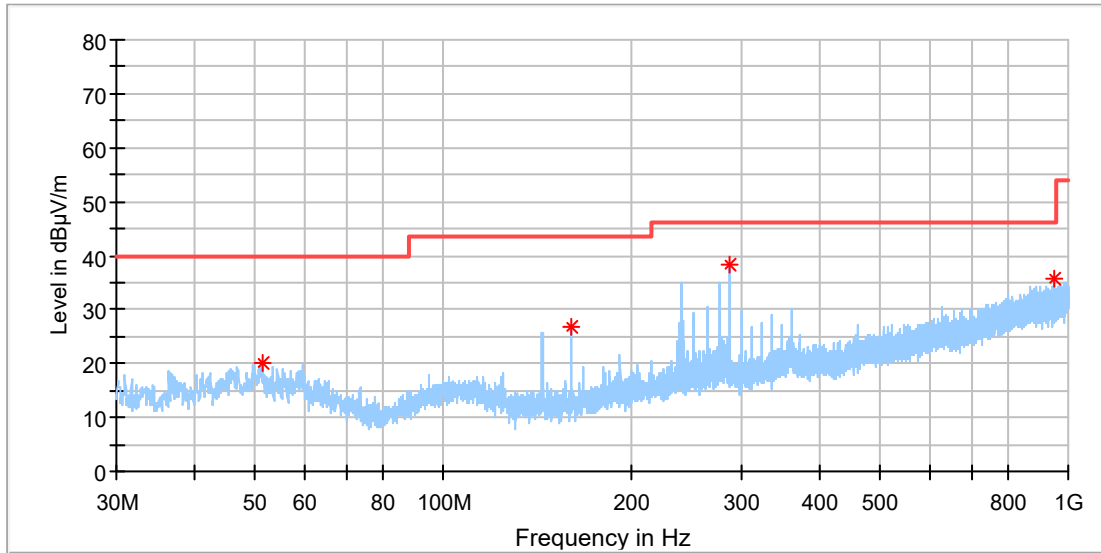
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 51.000500 | 27.59 | 40.00 | 12.41 | 100.0 | V | 44.0 | -18.3 |
| 101.149500 | 17.69 | 43.50 | 25.81 | 100.0 | V | 0.0 | -18.9 |
| 385.214000 | 24.17 | 46.00 | 21.83 | 100.0 | V | 256.0 | -14.1 |
| 929.820500 | 34.78 | 46.00 | 11.22 | 100.0 | V | 10.0 | -4.7 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M06
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003201415-001
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

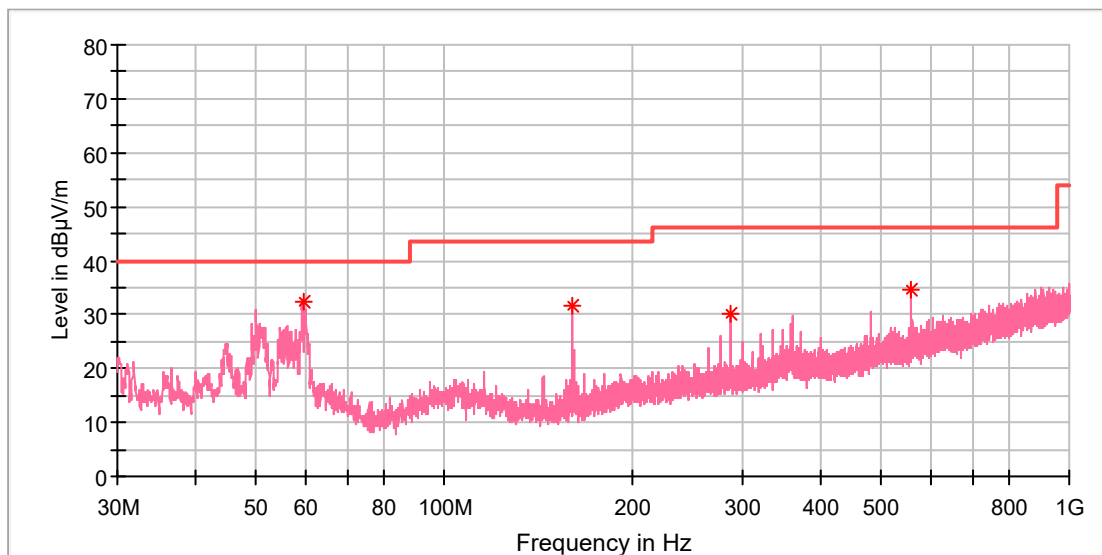
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 51.388500 | 20.01 | 40.00 | 19.99 | 100.0 | H | 225.0 | -18.3 |
| 159.980000 | 26.69 | 43.50 | 16.81 | 100.0 | H | 53.0 | -21.8 |
| 288.020000 | 38.33 | 46.00 | 7.67 | 100.0 | H | 191.0 | -16.6 |
| 948.590000 | 35.87 | 46.00 | 10.13 | 100.0 | H | 354.0 | -4.4 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M06
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003201415-001
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

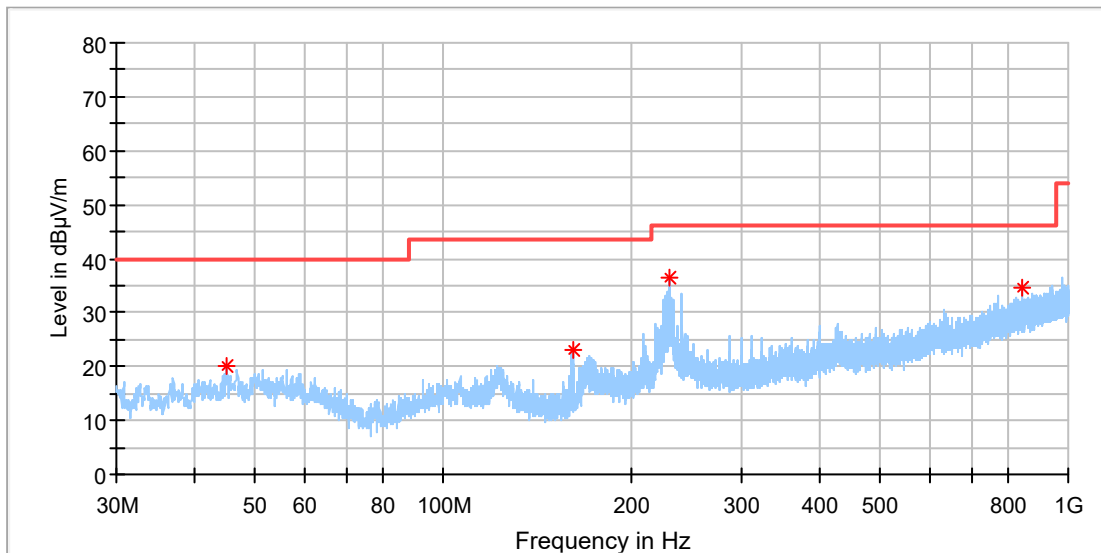
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 59.391000 | 32.44 | 40.00 | 7.56 | 100.0 | V | 273.0 | -18.9 |
| 160.028500 | 31.66 | 43.50 | 11.84 | 100.0 | V | 320.0 | -21.8 |
| 288.020000 | 29.99 | 46.00 | 16.01 | 100.0 | V | 47.0 | -16.6 |
| 560.008000 | 34.60 | 46.00 | 11.40 | 100.0 | V | 0.0 | -10.7 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M10
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003201415-003
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

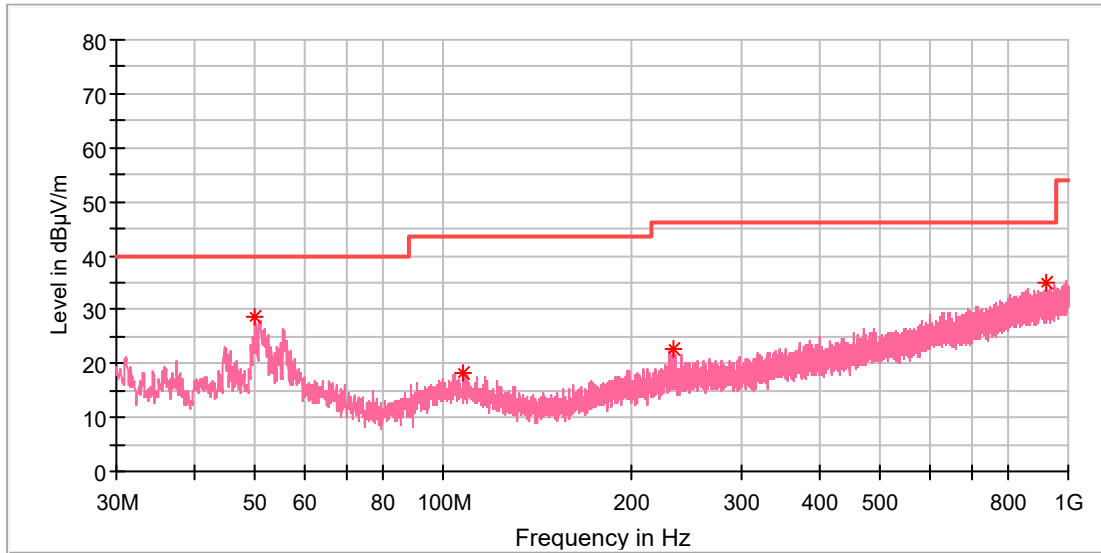
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 44.986500 | 20.16 | 40.00 | 19.84 | 100.0 | H | 258.0 | -18.8 |
| 161.435000 | 23.23 | 43.50 | 20.27 | 100.0 | H | 176.0 | -21.7 |
| 230.256500 | 36.29 | 46.00 | 9.71 | 100.0 | H | 91.0 | -18.0 |
| 844.800000 | 34.52 | 46.00 | 11.48 | 100.0 | H | 111.0 | -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: Bluetooth Speaker
 Model: M10
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003201415-003
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 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) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 50.030500 | 28.53 | 40.00 | 11.47 | 100.0 | V | 207.0 | -18.3 |
| 107.260500 | 18.19 | 43.50 | 25.31 | 100.0 | V | 157.0 | -18.9 |
| 233.506000 | 22.72 | 46.00 | 23.28 | 100.0 | V | 207.0 | -17.9 |
| 920.508500 | 34.80 | 46.00 | 11.20 | 100.0 | V | 78.0 | -4.8 |

Final Result

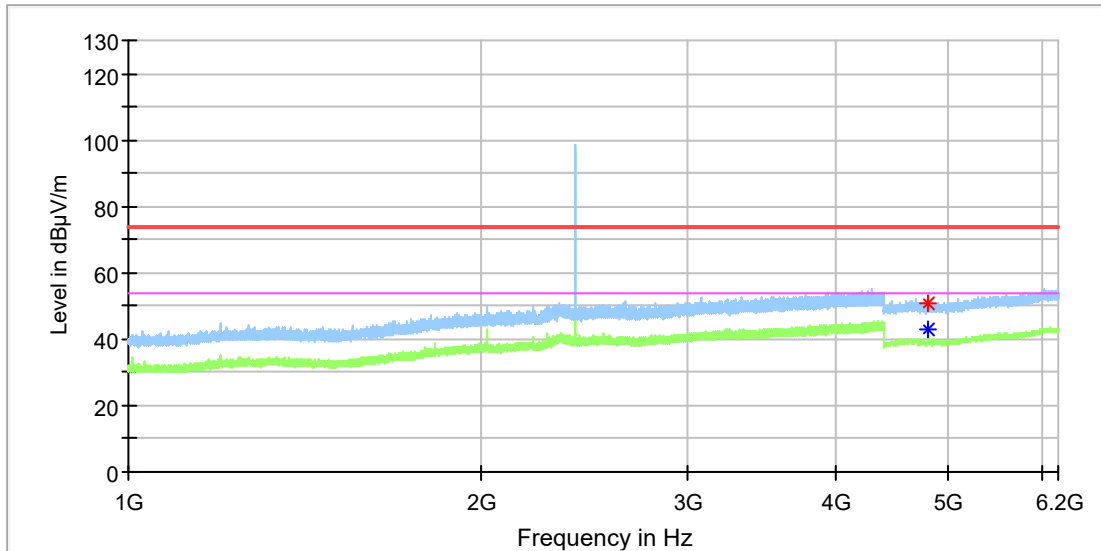
| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|--------------|
| --- | --- | --- | --- | --- | | --- | --- |

1GHz-18GHz

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

EUT Information

| | |
|---------------------|--------------------------|
| EUT Name: | Bluetooth Speaker |
| Model: | M02 |
| Test Mode: | BLE 1M_Low channel |
| Order No/Sample No: | 168334216/A003183556-002 |
| Test Voltage: | AC 120V, 60Hz |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |



Critical Freqs

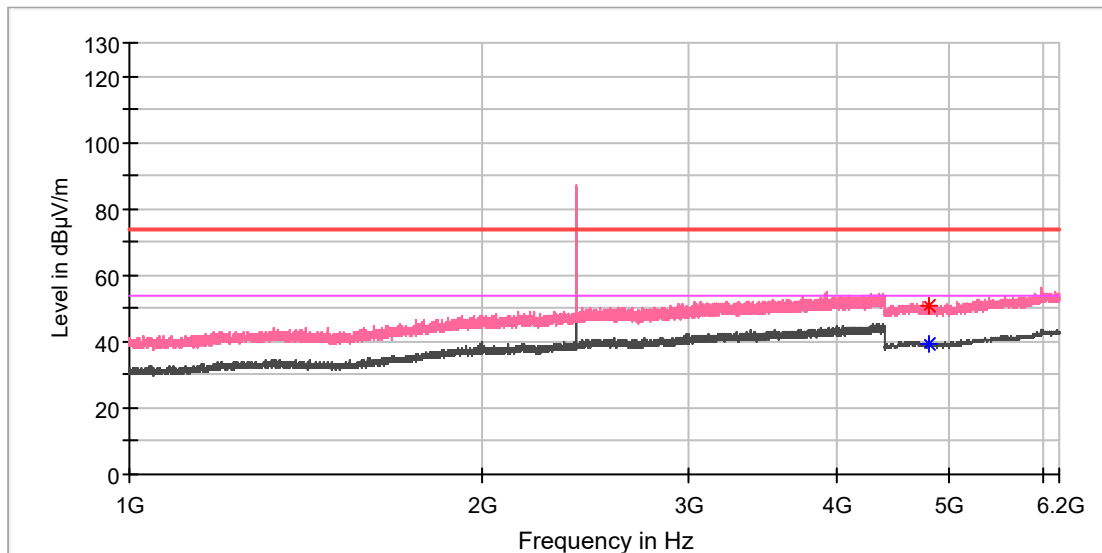
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4803.500000 | 51.08 | --- | 74.00 | 22.92 | 100.0 | H | 94.0 | 11.8 |
| 4804.000000 | --- | 42.91 | 54.00 | 11.09 | 100.0 | H | 313.0 | 11.8 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

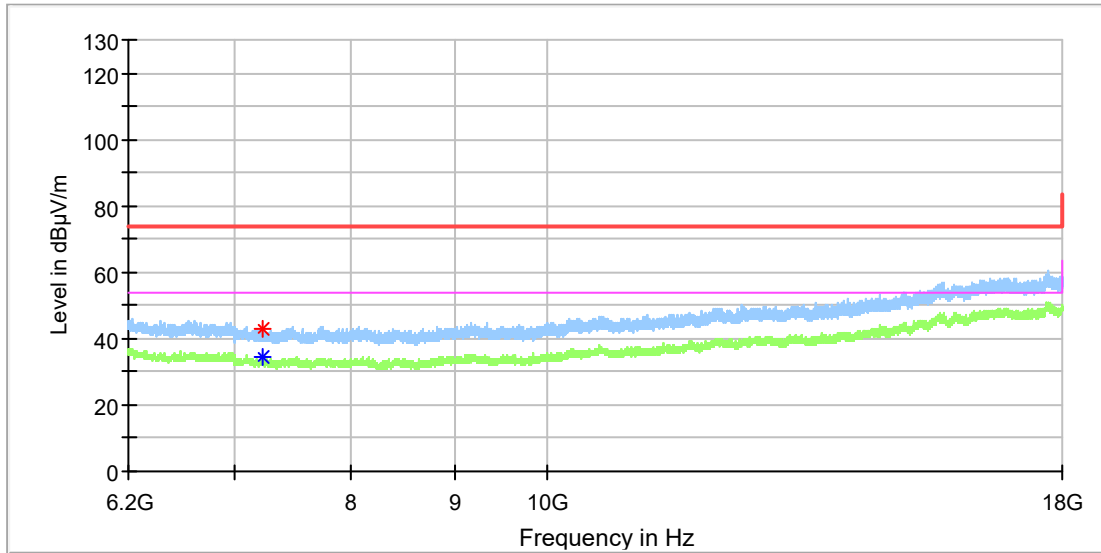
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4803.500000 | --- | 39.57 | 54.00 | 14.43 | 100.0 | V | 74.0 | 11.8 |
| 4809.500000 | 50.57 | --- | 74.00 | 23.43 | 100.0 | V | 36.0 | 11.8 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

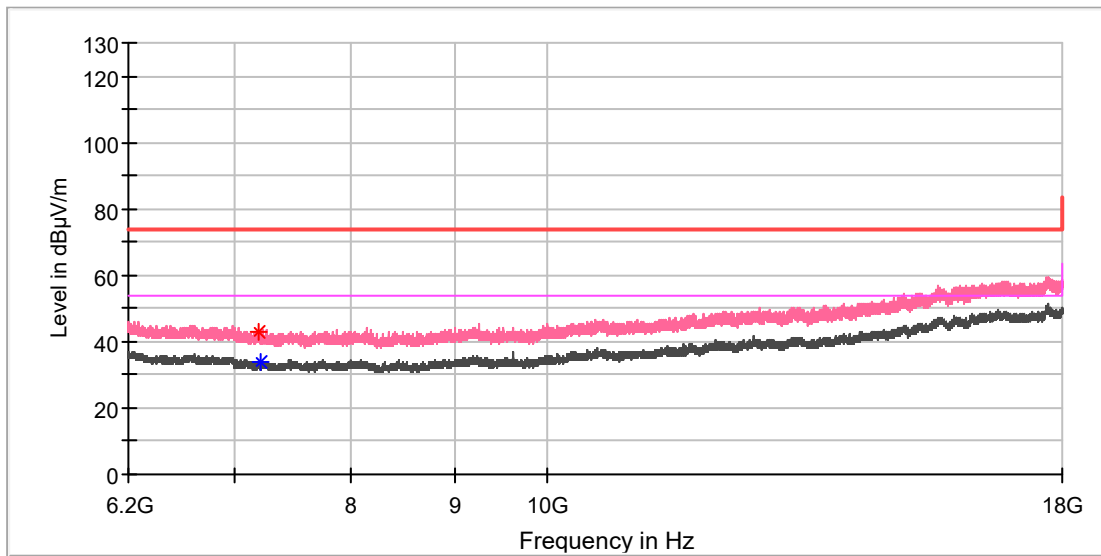
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7222.666667 | --- | 34.39 | 54.00 | 19.61 | 100.0 | H | 104.0 | 8.7 |
| 7227.583333 | 42.69 | --- | 74.00 | 31.31 | 100.0 | H | 54.0 | 8.7 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

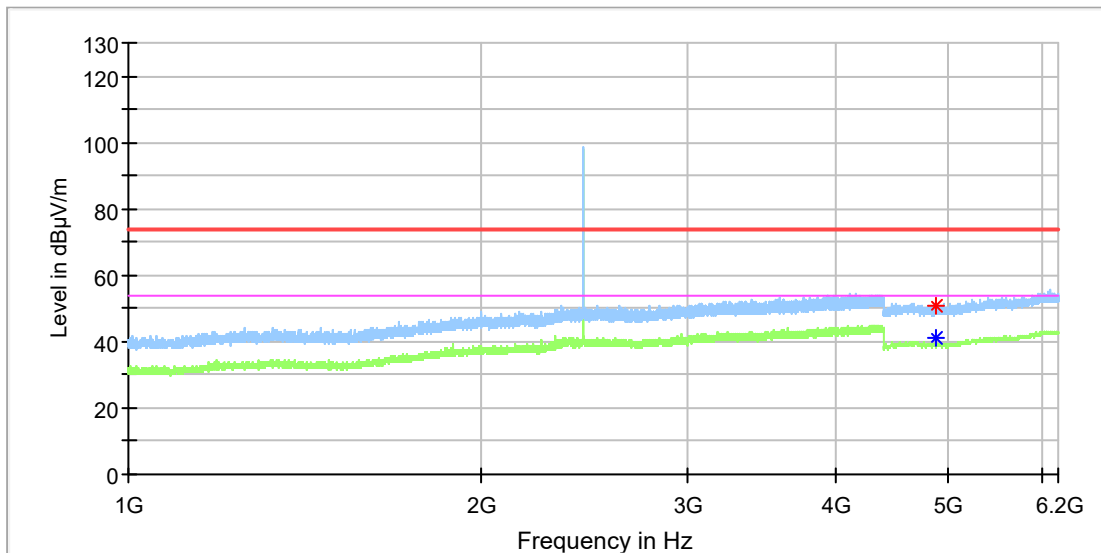
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7199.066667 | 42.76 | --- | 74.00 | 31.24 | 100.0 | V | 275.0 | 8.8 |
| 7205.950000 | --- | 33.96 | 54.00 | 20.04 | 100.0 | V | 127.0 | 8.8 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

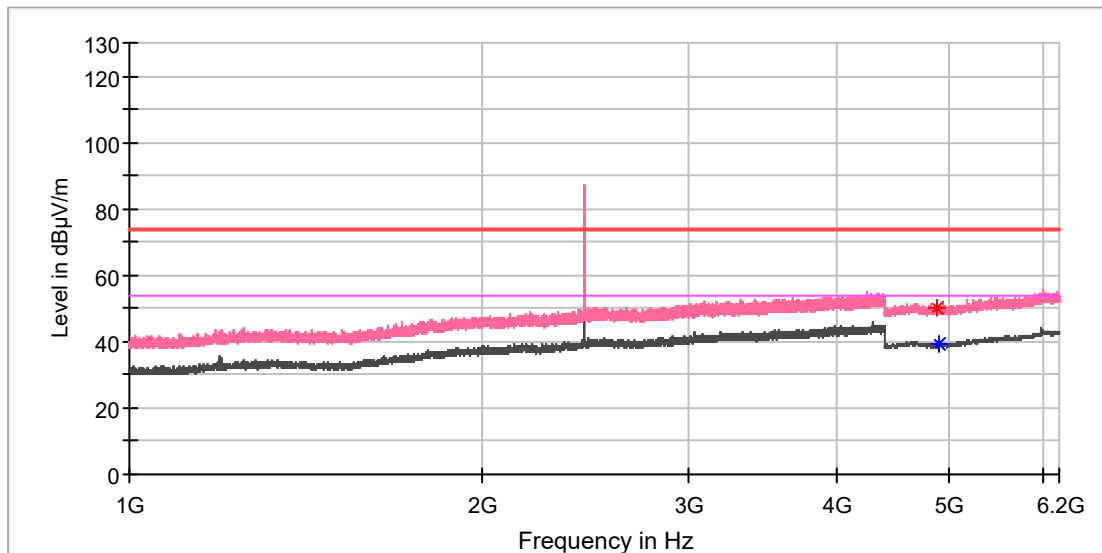
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4880.000000 | 50.59 | --- | 74.00 | 23.41 | 100.0 | H | 82.0 | 11.8 |
| 4880.000000 | --- | 40.92 | 54.00 | 13.08 | 100.0 | H | 82.0 | 11.8 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

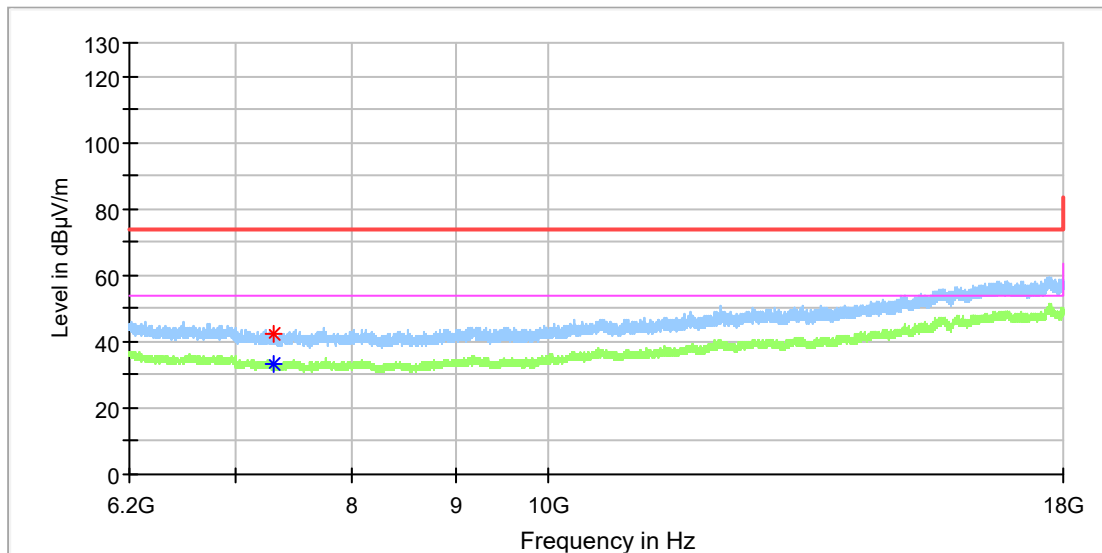
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4881.500000 | 50.26 | --- | 74.00 | 23.74 | 100.0 | V | 235.0 | 11.8 |
| 4890.500000 | --- | 39.11 | 54.00 | 14.89 | 100.0 | V | 163.0 | 11.8 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

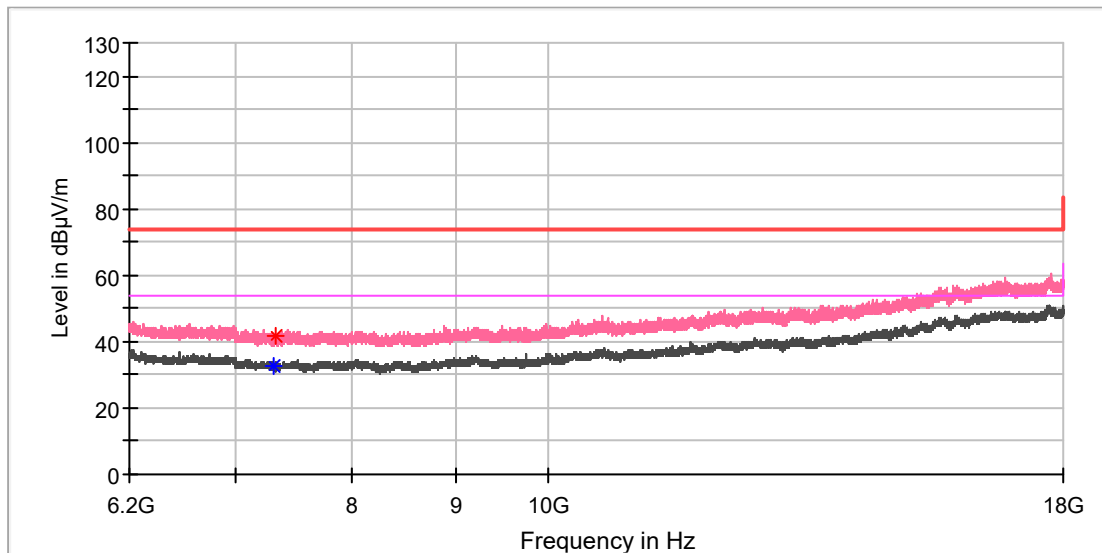
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7313.133333 | 42.38 | --- | 74.00 | 31.62 | 100.0 | H | 125.0 | 8.2 |
| 7313.133333 | --- | 33.06 | 54.00 | 20.94 | 100.0 | H | 125.0 | 8.2 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

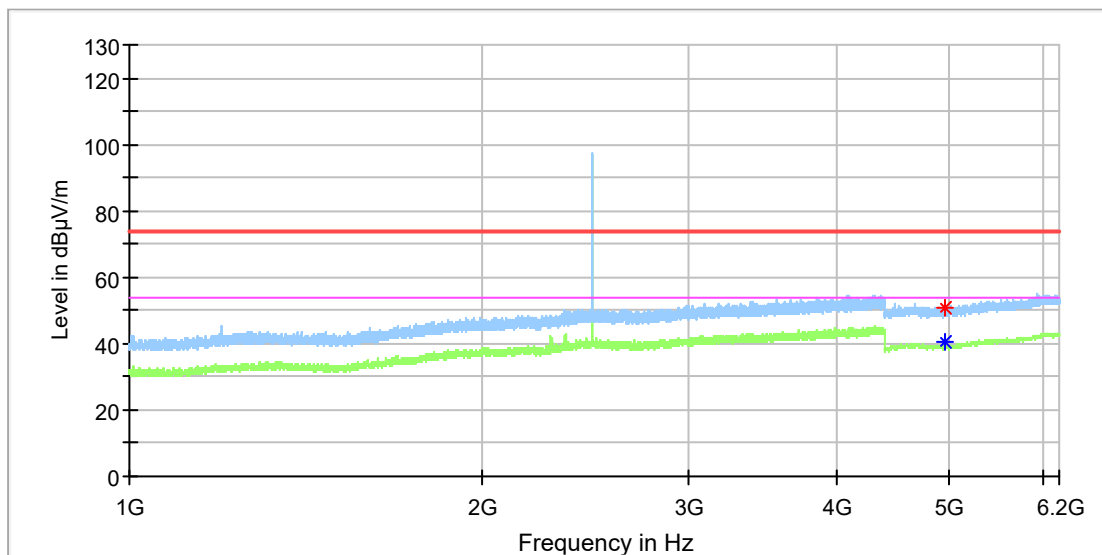
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7308.708333 | --- | 32.82 | 54.00 | 21.18 | 100.0 | V | 309.0 | 8.2 |
| 7324.933333 | 41.91 | --- | 74.00 | 32.09 | 100.0 | V | 141.0 | 8.2 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

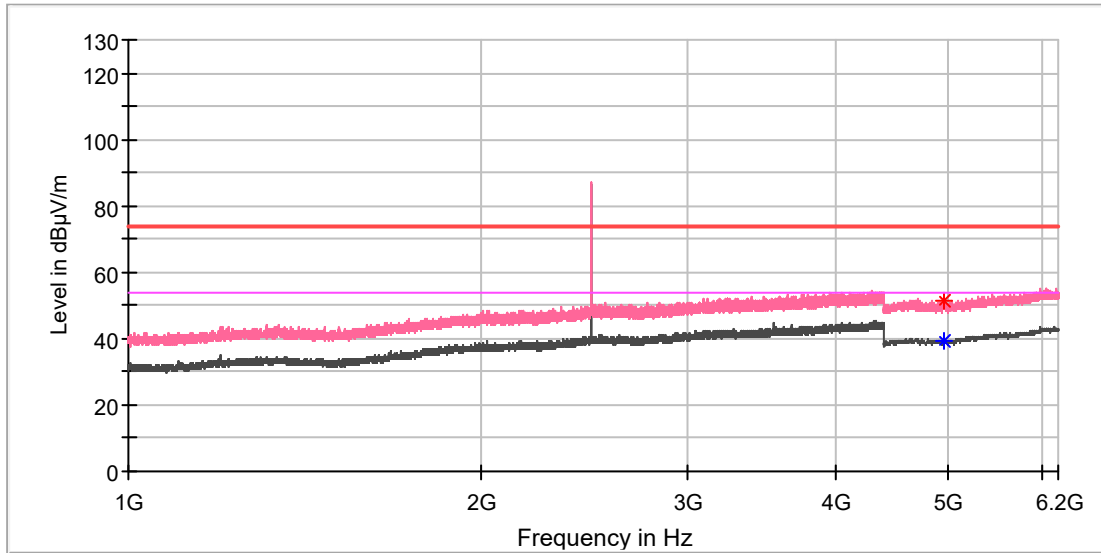
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4957.500000 | 50.77 | --- | 74.00 | 23.23 | 100.0 | H | 21.0 | 11.8 |
| 4959.500000 | --- | 40.26 | 54.00 | 13.74 | 100.0 | H | 195.0 | 11.8 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

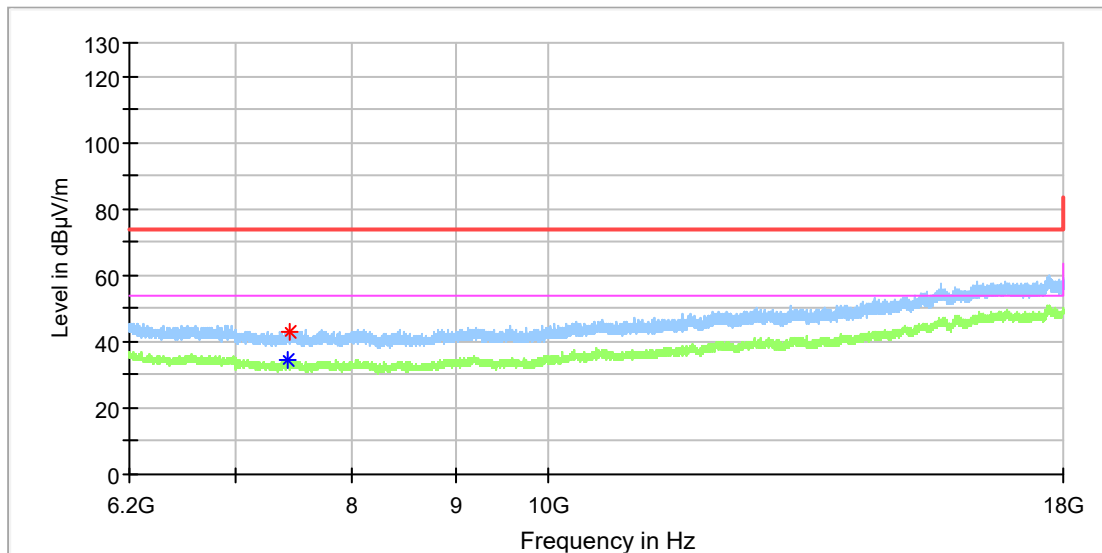
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4950.500000 | --- | 39.45 | 54.00 | 14.55 | 100.0 | V | 4.0 | 11.8 |
| 4953.000000 | 51.58 | --- | 74.00 | 22.42 | 100.0 | V | 76.0 | 11.8 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

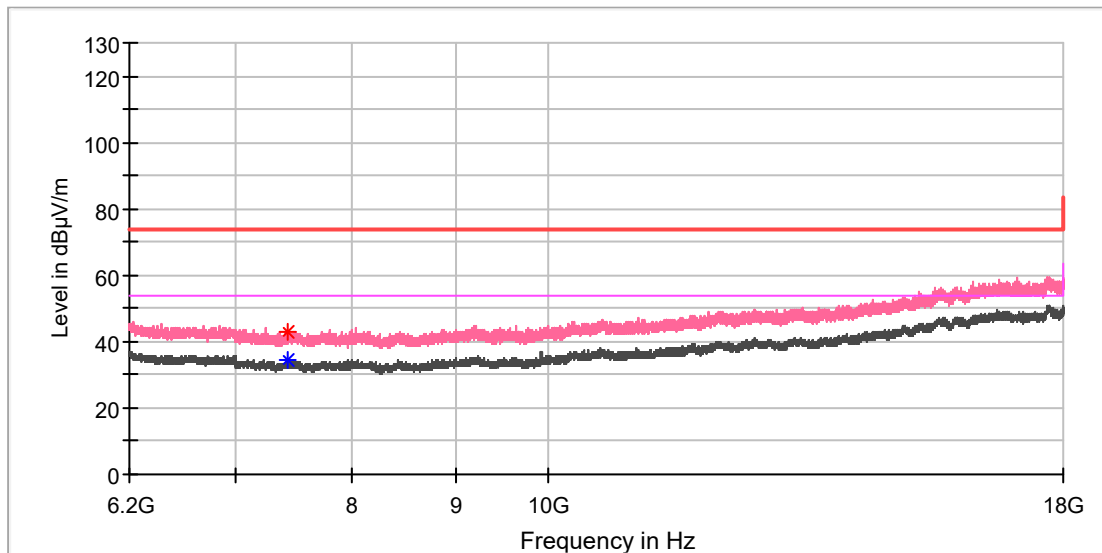
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7426.708333 | --- | 34.20 | 54.00 | 19.80 | 100.0 | H | 211.0 | 8.4 |
| 7452.275000 | 42.64 | --- | 74.00 | 31.36 | 100.0 | H | 281.0 | 8.5 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7421.791667 | 42.78 | --- | 74.00 | 31.22 | 100.0 | V | 5.0 | 8.4 |
| 7427.200000 | --- | 34.26 | 54.00 | 19.74 | 100.0 | V | 298.0 | 8.4 |

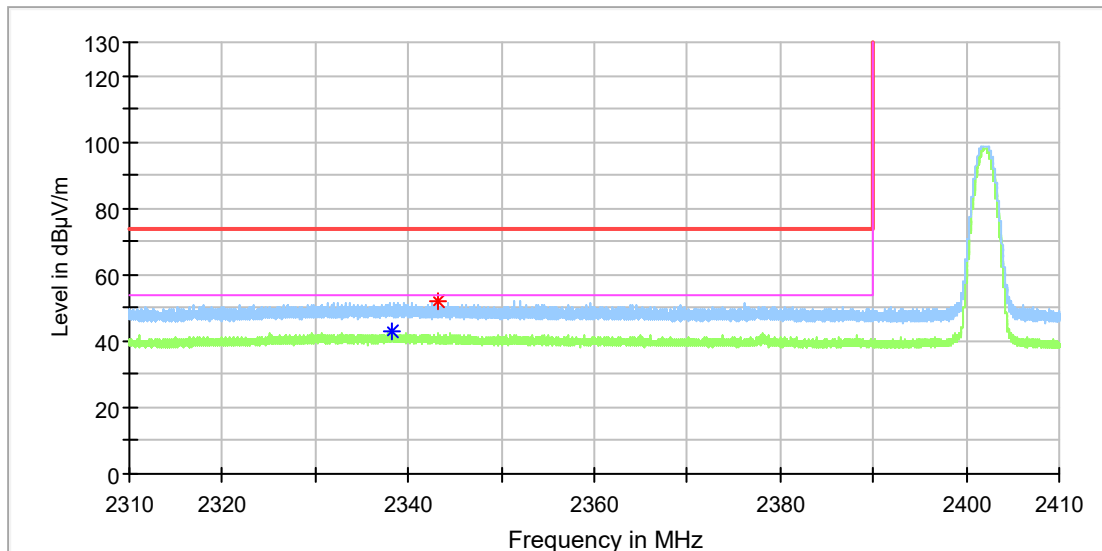
Final Result

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

Appendix C.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

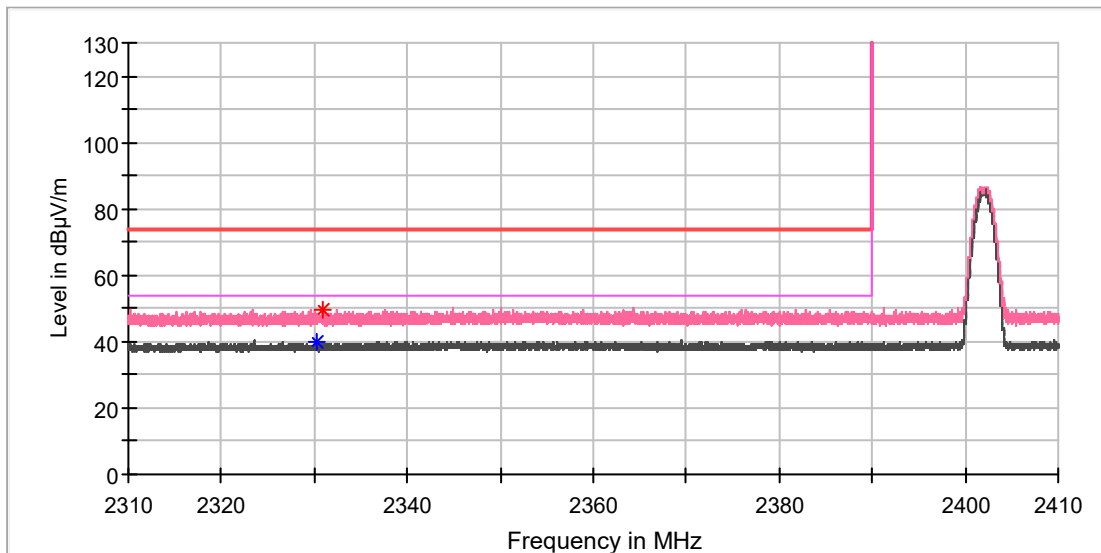
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2338.300000 | --- | 42.93 | 54.00 | 11.07 | 100.0 | H | 347.0 | 6.8 |
| 2343.135000 | 51.74 | --- | 74.00 | 22.26 | 100.0 | H | 87.0 | 6.8 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_Low channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

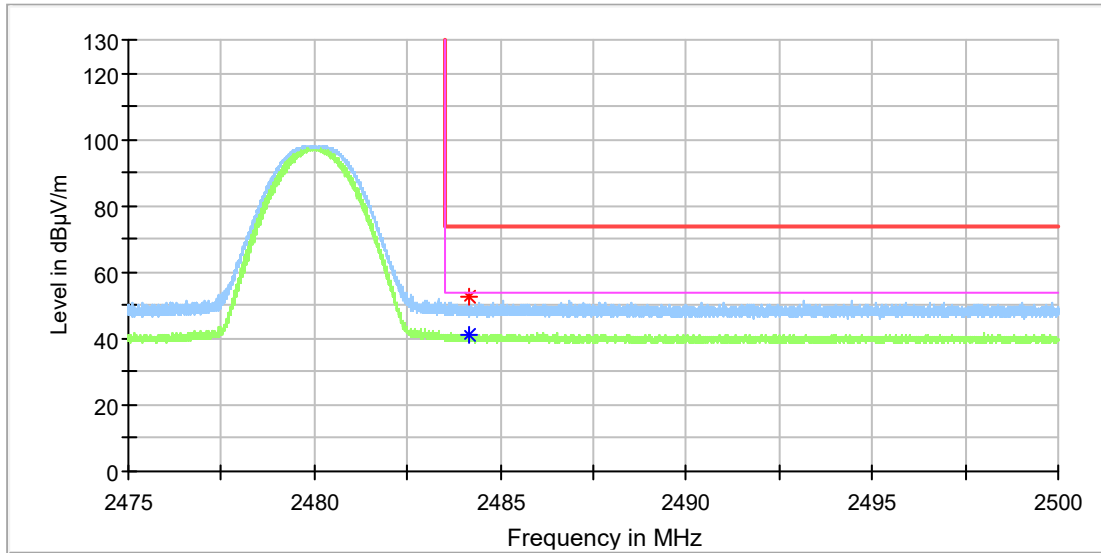
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2330.280000 | --- | 39.87 | 54.00 | 14.13 | 100.0 | V | 0.0 | 6.7 |
| 2330.860000 | 49.61 | --- | 74.00 | 24.39 | 100.0 | V | 168.0 | 6.7 |

Final Result

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

EUT Information

EUT Name: Bluetooth Speaker
 Model: M02
 Test Mode: BLE 1M_High channel
 Order No/Sample No: 168334216/A003183556-002
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

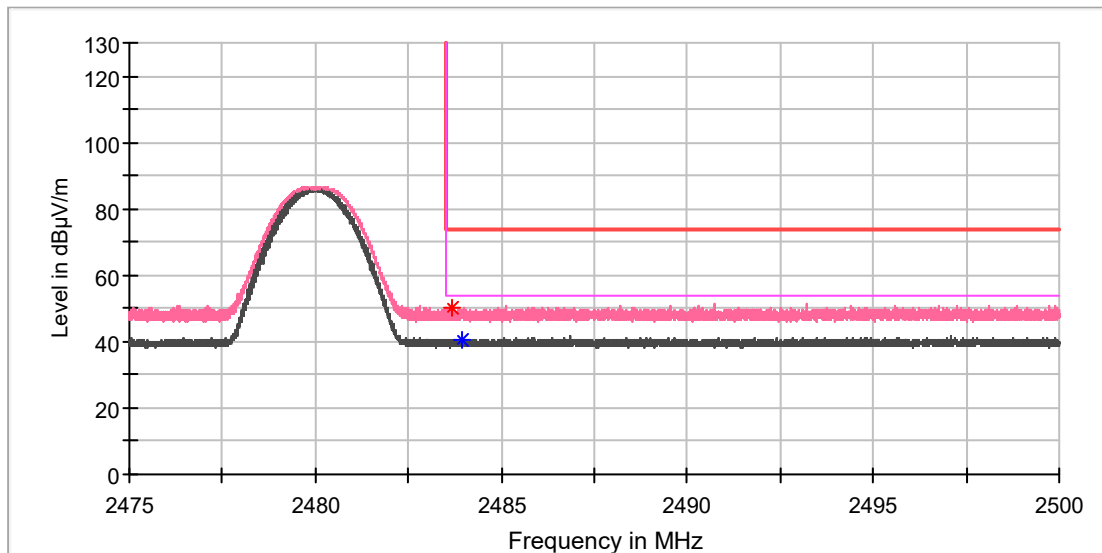
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2484.172500 | --- | 41.19 | 54.00 | 12.81 | 100.0 | H | 98.0 | 7.4 |
| 2484.185000 | 52.72 | --- | 74.00 | 21.28 | 100.0 | H | 0.0 | 7.4 |

Final Result

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

EUT Information

| | |
|---------------------|--------------------------|
| EUT Name: | Bluetooth Speaker |
| Model: | M02 |
| Test Mode: | BLE 1M_High channel |
| Order No/Sample No: | 168334216/A003183556-002 |
| Test Voltage: | AC 120V, 60Hz |
| Remark: | Temp 23 Humi:58% |
| Test Standard: | FCC 15.247 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |



Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.690000 | 50.31 | --- | 74.00 | 23.69 | 100.0 | V | 1.0 | 7.4 |
| 2483.970000 | --- | 40.53 | 54.00 | 13.47 | 100.0 | V | 52.0 | 7.4 |

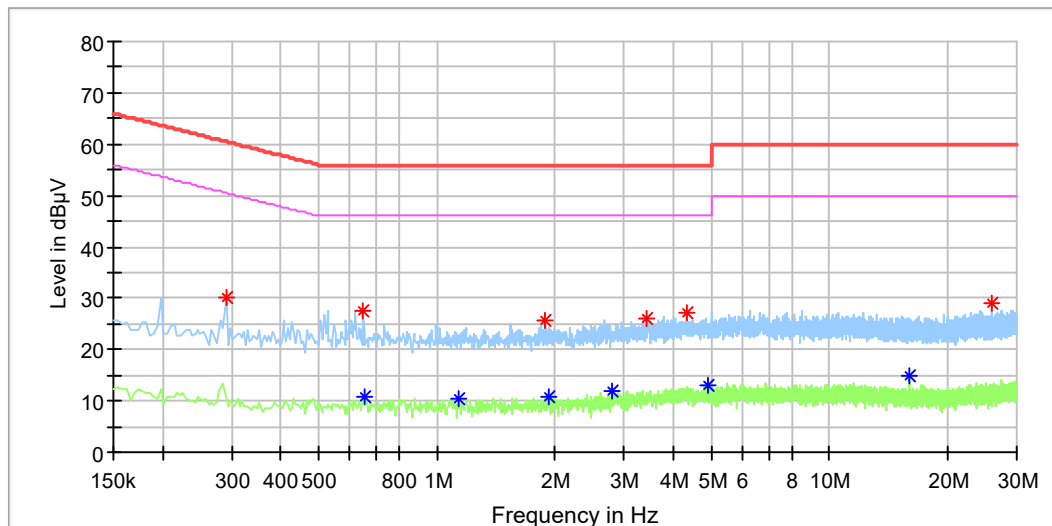
Final Result

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

Appendix C.7: Test Results of Conducted Emission

EUT Information

EUT Name: Bluetooth Speaker
 Order No: 168334216
 Model: M02
 Test mode: BT
 Test Voltage: AC 120V/60Hz
 Test By: Ouyang Wang
 Review By: Gary Chen
 Remark: SR2

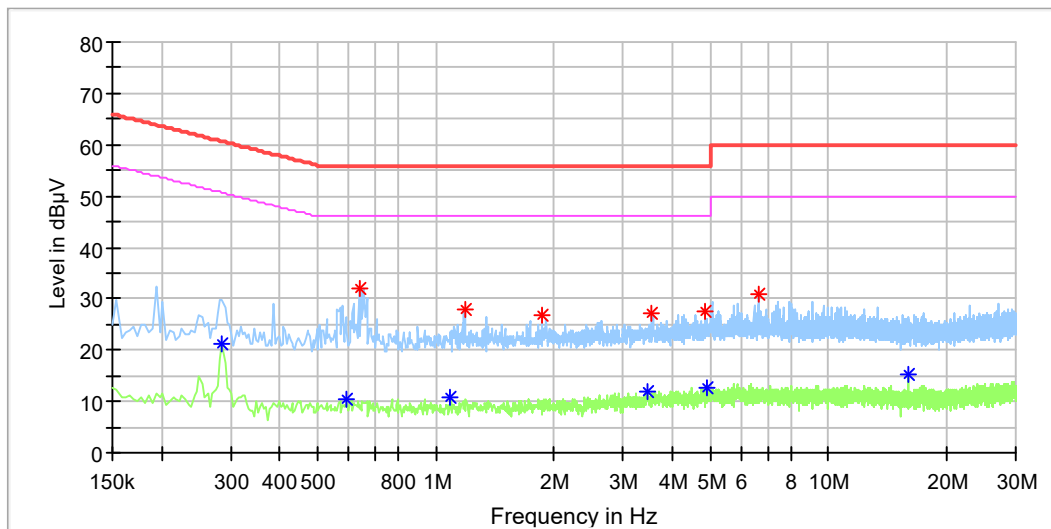


Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.290000 | 30.30 | --- | 60.52 | 30.23 | L1 | 9.9 |
| 0.650000 | 27.58 | --- | 56.00 | 28.42 | L1 | 10.0 |
| 0.654000 | --- | 10.96 | 46.00 | 35.04 | L1 | 10.0 |
| 1.138000 | --- | 10.43 | 46.00 | 35.57 | L1 | 10.1 |
| 1.894000 | 25.57 | --- | 56.00 | 30.43 | L1 | 10.1 |
| 1.934000 | --- | 10.86 | 46.00 | 35.14 | L1 | 10.1 |
| 2.810000 | --- | 12.02 | 46.00 | 33.98 | L1 | 10.2 |
| 3.422000 | 26.11 | --- | 56.00 | 29.89 | L1 | 10.2 |
| 4.334000 | 27.07 | --- | 56.00 | 28.93 | L1 | 10.2 |
| 4.914000 | --- | 13.16 | 46.00 | 32.84 | L1 | 10.2 |
| 15.998000 | --- | 14.70 | 50.00 | 35.30 | L1 | 10.4 |
| 25.862000 | 29.13 | --- | 60.00 | 30.87 | L1 | 10.4 |

EUT Information

EUT Name: Bluetooth Speaker
 Order No: 168334216
 Model: M02
 Test mode: BT
 Test Voltage: AC 120V/60Hz
 Test By: Ouyang Wang
 Review By: Gary Chen
 Remark: SR2



Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.286000 | --- | 21.38 | 50.64 | 29.26 | N | 9.8 |
| 0.594000 | --- | 10.60 | 46.00 | 35.40 | N | 9.8 |
| 0.638000 | 32.10 | --- | 56.00 | 23.90 | N | 9.8 |
| 1.090000 | --- | 10.89 | 46.00 | 35.11 | N | 9.8 |
| 1.182000 | 27.80 | --- | 56.00 | 28.20 | N | 9.8 |
| 1.862000 | 26.92 | --- | 56.00 | 29.08 | N | 9.8 |
| 3.450000 | --- | 11.99 | 46.00 | 34.01 | N | 9.9 |
| 3.558000 | 27.23 | --- | 56.00 | 28.77 | N | 9.9 |
| 4.850000 | 27.45 | --- | 56.00 | 28.55 | N | 9.9 |
| 4.886000 | --- | 12.56 | 46.00 | 33.44 | N | 9.9 |
| 6.646000 | 31.03 | --- | 60.00 | 28.97 | N | 10.0 |
| 16.002000 | --- | 15.43 | 50.00 | 34.57 | N | 10.2 |