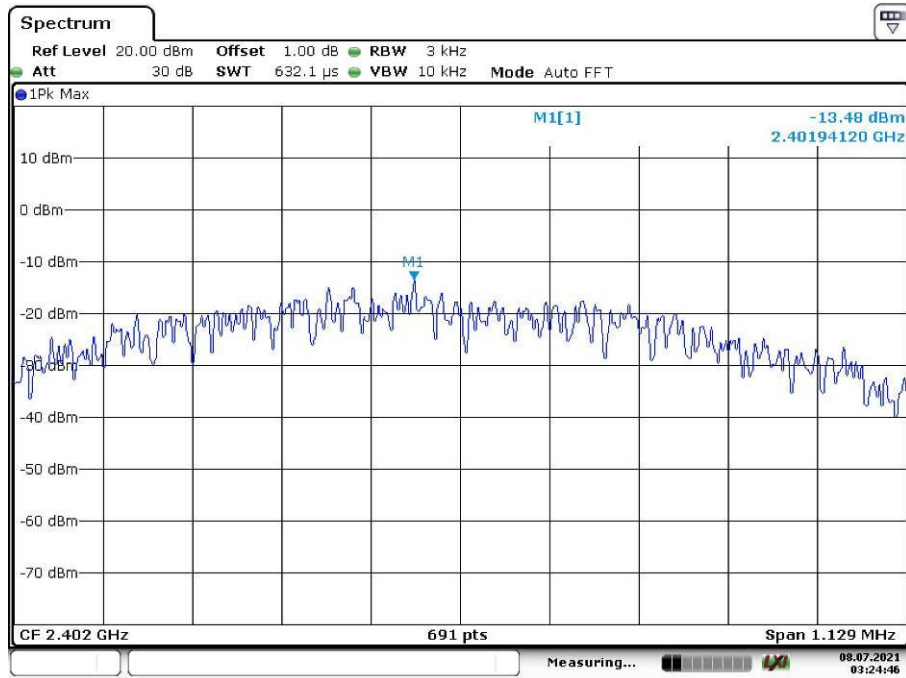


Appendix C: Test Results of Bluetooth LE

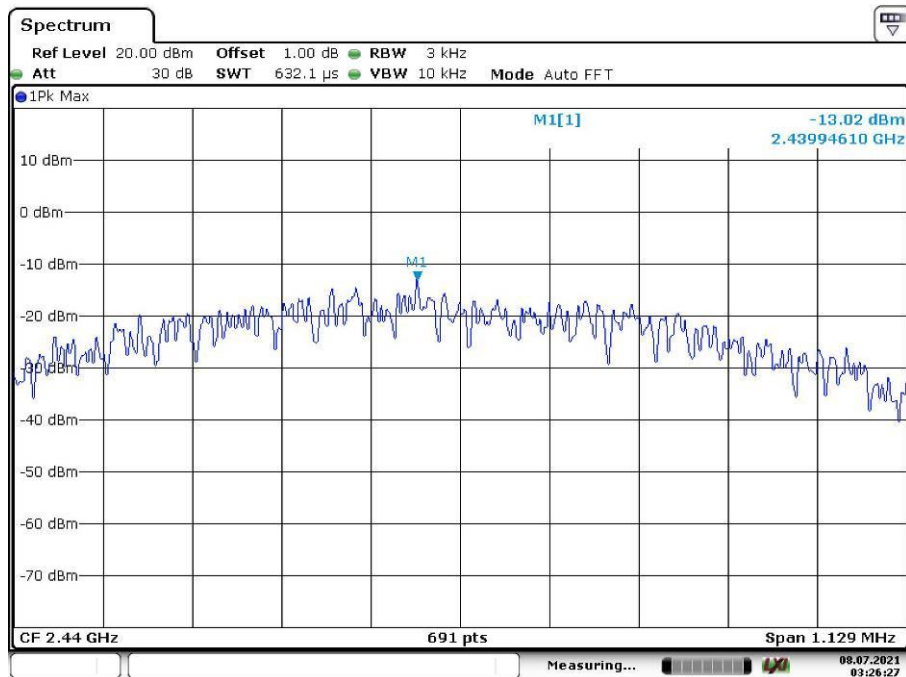
| | |
|--|----|
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Appendix C.1: Test Results of Conducted Power Spectral Density

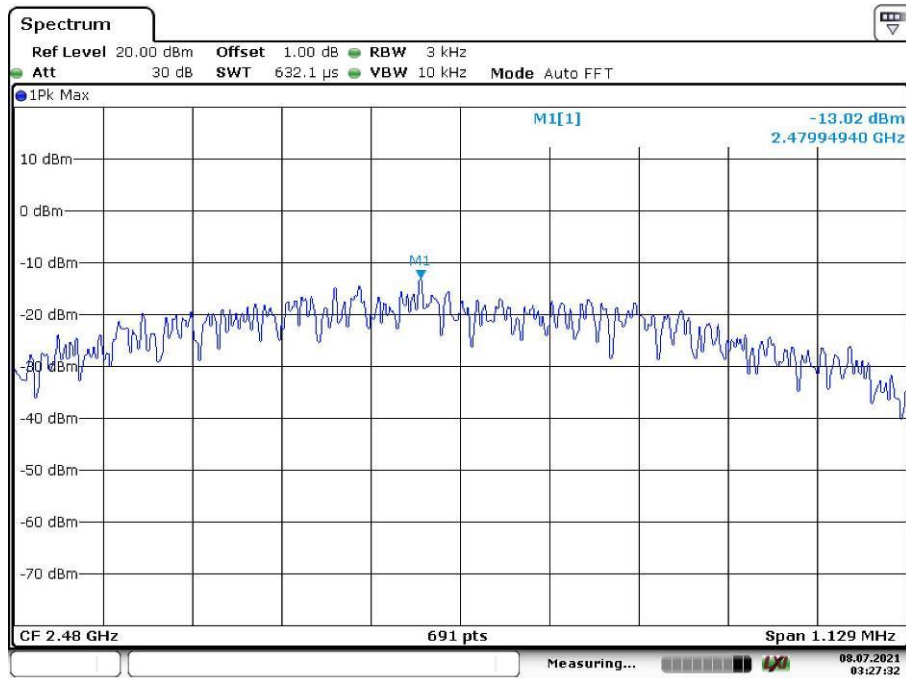
GFSK(BLE) Mode, 1Mbps



Date: 8.JUL.2021 03:24:46

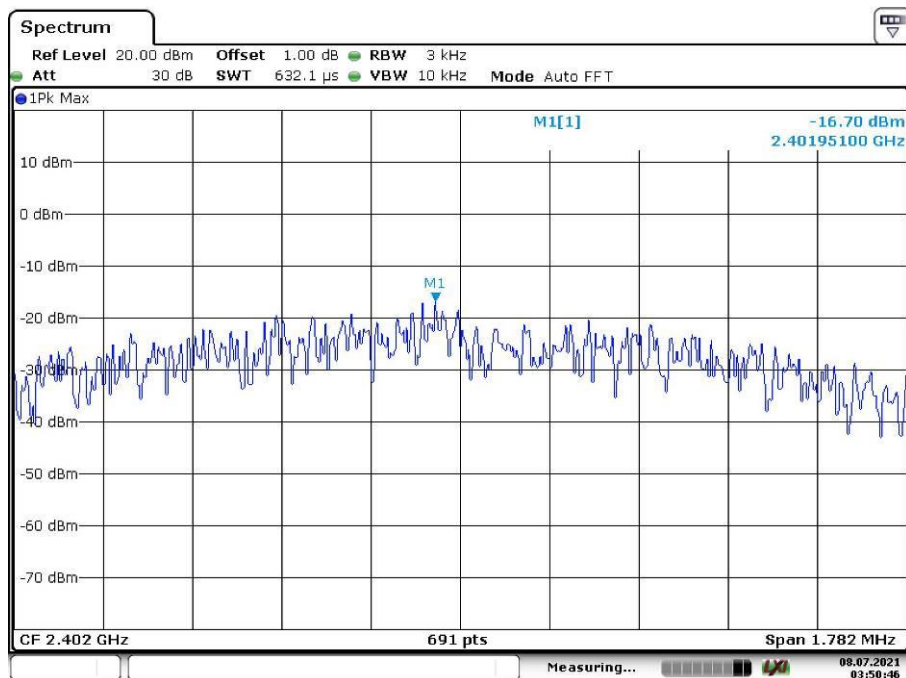


Date: 8.JUL.2021 03:26:27

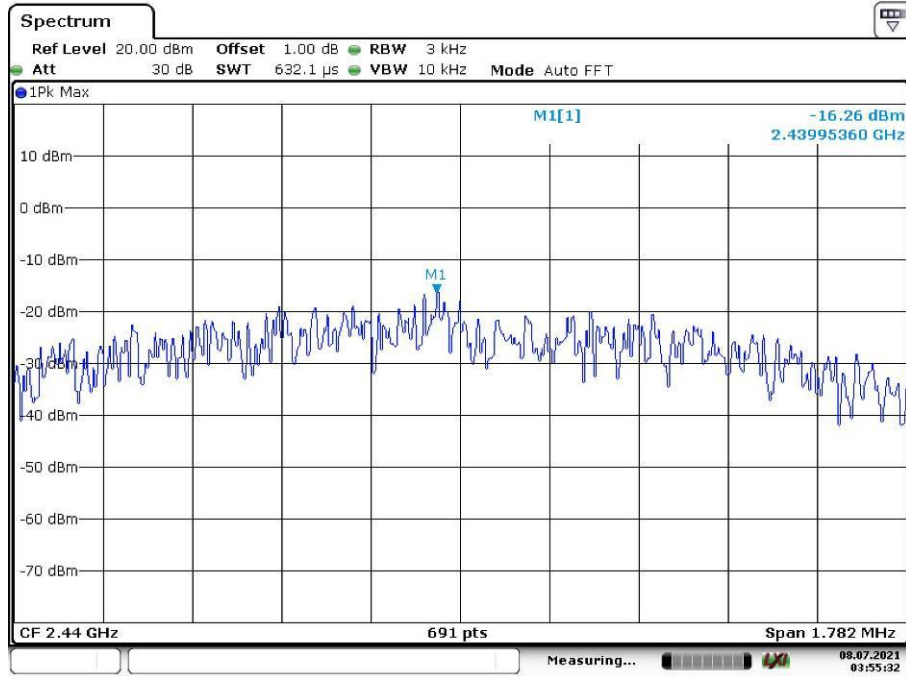


Date: 8.JUL.2021 03:27:32

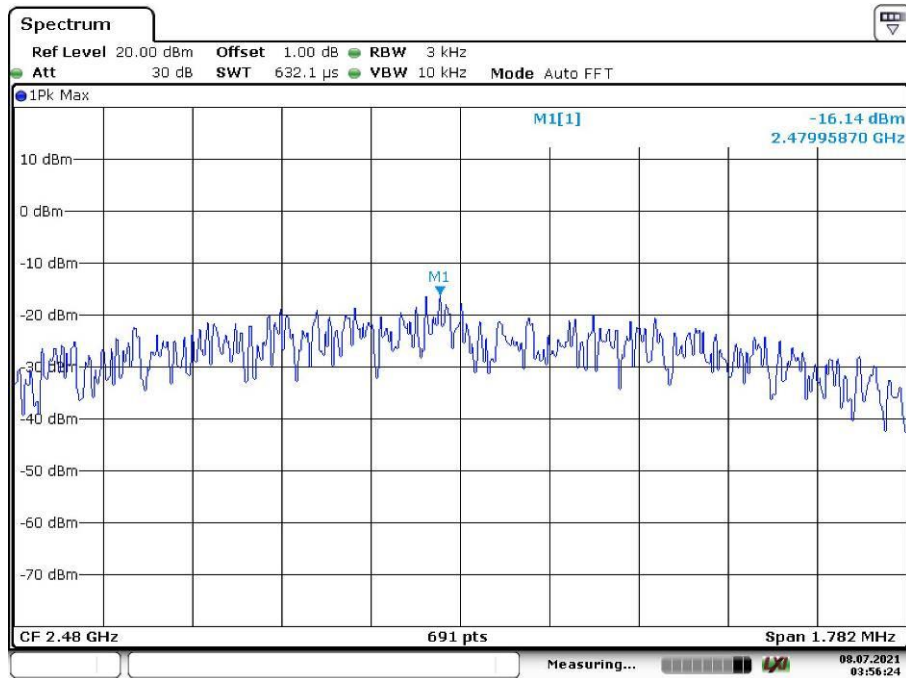
GFSK(BLE) Mode, 2Mbps



Date: 8.JUL.2021 03:50:47



Date: 8.JUL.2021 03:55:32



Date: 8.JUL.2021 03:56:24

Appendix C.2: Test Results of 6dB Bandwidth

GFSK(BLE) Mode, 1Mbps

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2402 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

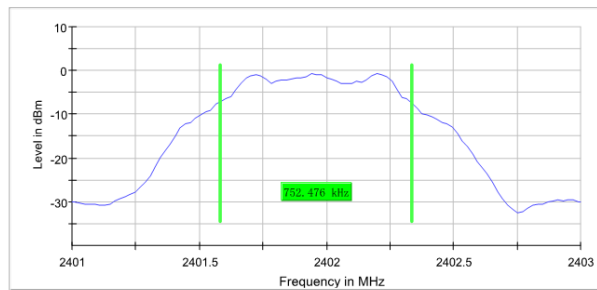
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000 | 0.752476 | 0.500000 | --- | 2401.584158 | 2402.336634 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2402.000000 | -0.8 | PASS |

6 dB Bandwidth



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.40100 GHz | 2.40100 GHz |
| Stop Frequency | 2.40300 GHz | 2.40300 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 101 | ~ 40 |
| SweepTime | 18.938 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 9 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.07 dB | 0.50 dB |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2440 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

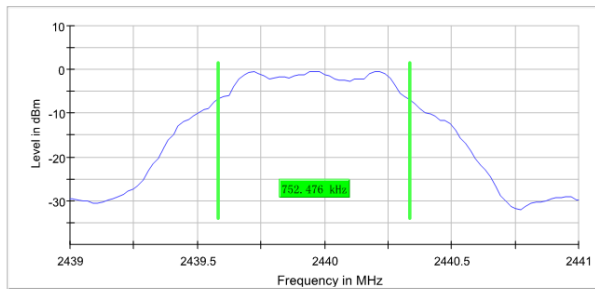
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2440.000000 | 0.752476 | 0.500000 | --- | 2439.584158 | 2440.336634 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2440.000000 | -0.3 | PASS |

6 dB Bandwidth



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.43900 GHz | 2.43900 GHz |
| Stop Frequency | 2.44100 GHz | 2.44100 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 101 | ~ 40 |
| SweepTime | 18.938 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 9 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.12 dB | 0.50 dB |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2480 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

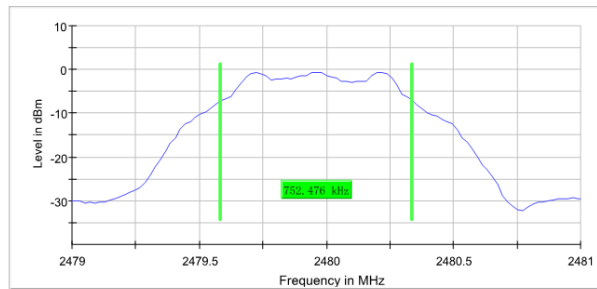
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000 | 0.752476 | 0.500000 | --- | 2479.584158 | 2480.336634 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2480.000000 | -0.6 | PASS |

6 dB Bandwidth



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.47900 GHz | 2.47900 GHz |
| Stop Frequency | 2.48100 GHz | 2.48100 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 101 | ~ 40 |
| SweepTime | 18.938 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 12 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.02 dB | 0.50 dB |

GFSK(BLE) Mode, 2Mbps

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2402 MHz; 10.000 dBm; 2 MHz)

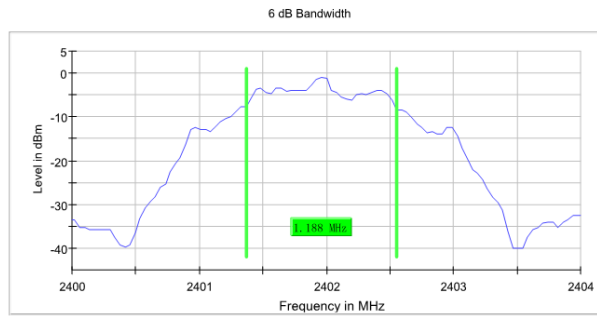
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000 | 1.188118 | 0.500000 | --- | 2401.366337 | 2402.554455 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2402.000000 | -1.0 | PASS |



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.40000 GHz | 2.40000 GHz |
| Stop Frequency | 2.40400 GHz | 2.40400 GHz |
| Span | 4.000 MHz | 4.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 101 | ~ 80 |
| SweepTime | 18.938 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 12 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2440 MHz; 10.000 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

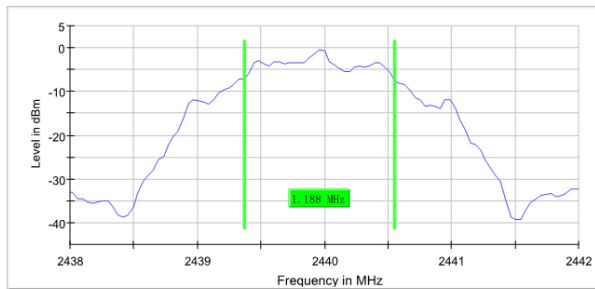
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2440.000000 | 1.188118 | 0.500000 | --- | 2439.366337 | 2440.554455 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2440.000000 | -0.5 | PASS |

6 dB Bandwidth



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.43800 GHz | 2.43800 GHz |
| Stop Frequency | 2.44200 GHz | 2.44200 GHz |
| Span | 4.000 MHz | 4.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 101 | ~ 80 |
| SweepTime | 18.938 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 10 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.03 dB | 0.50 dB |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2480 MHz; 10.000 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

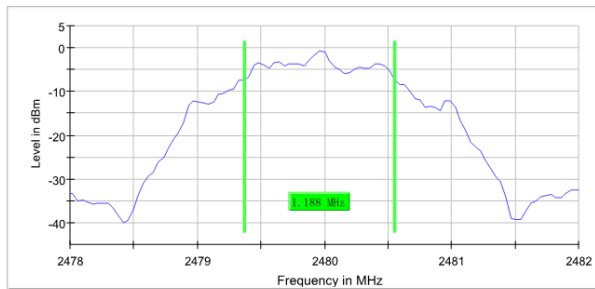
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000 | 1.188118 | 0.500000 | --- | 2479.366337 | 2480.554455 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2480.000000 | -0.8 | PASS |

6 dB Bandwidth



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.47800 GHz | 2.47800 GHz |
| Stop Frequency | 2.48200 GHz | 2.48200 GHz |
| Span | 4.000 MHz | 4.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 101 | ~ 80 |
| SweepTime | 18.938 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 8 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.07 dB | 0.50 dB |

Appendix C.3: Test Results of 99% Bandwidth

GFSK(BLE) Mode, 1Mbps

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2402 MHz; 10.000 dBm; 1 MHz)

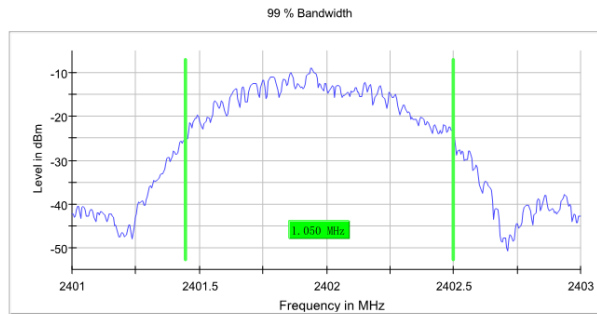
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000 | 1.050000 | --- | --- | 2401.447500 | 2402.497500 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000 | PASS |



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.40100 GHz | 2.40100 GHz |
| Stop Frequency | 2.40300 GHz | 2.40300 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 10.000 kHz | >= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 400 | ~ 400 |
| SweepTime | 189.648 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 10 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.25 dB | 0.30 dB |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2440 MHz; 10.000 dBm; 1 MHz)

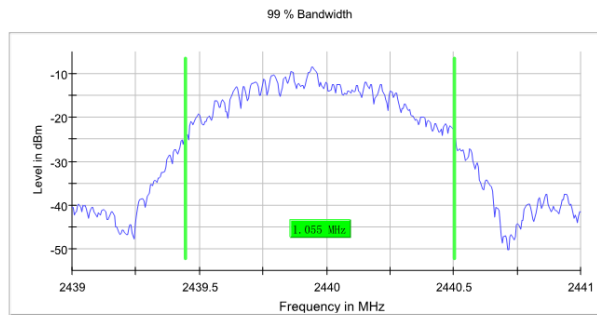
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2440.000000 | 1.055000 | --- | --- | 2439.447500 | 2440.502500 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2440.000000 | PASS |



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.43900 GHz | 2.43900 GHz |
| Stop Frequency | 2.44100 GHz | 2.44100 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 10.000 kHz | >= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 400 | ~ 400 |
| SweepTime | 189.648 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 7 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.19 dB | 0.30 dB |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2480 MHz; 10.000 dBm; 1 MHz)

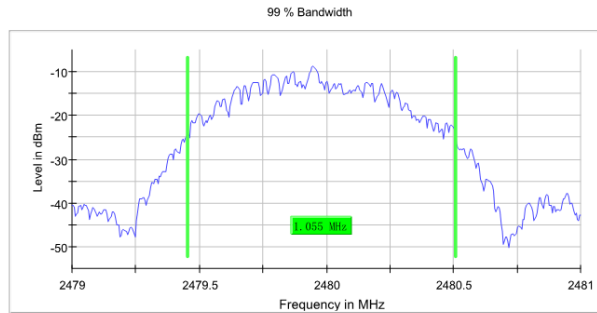
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000 | 1.055000 | --- | --- | 2479.452500 | 2480.507500 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000 | PASS |



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.47900 GHz | 2.47900 GHz |
| Stop Frequency | 2.48100 GHz | 2.48100 GHz |
| Span | 2.000 MHz | 2.000 MHz |
| RBW | 10.000 kHz | >= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 400 | ~ 400 |
| SweepTime | 189.648 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 7 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.30 dB | 0.30 dB |

GFSK(BLE) Mode, 2Mbps

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2402 MHz; 10.000 dBm; 2 MHz)

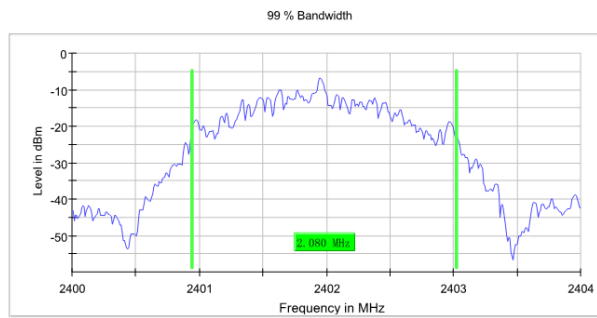
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000 | 2.080000 | --- | --- | 2400.945000 | 2403.025000 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000 | PASS |



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.40000 GHz | 2.40000 GHz |
| Stop Frequency | 2.40400 GHz | 2.40400 GHz |
| Span | 4.000 MHz | 4.000 MHz |
| RBW | 20.000 kHz | >= 20.000 kHz |
| VBW | 100.000 kHz | >= 60.000 kHz |
| SweepPoints | 400 | ~ 400 |
| SweepTime | 94.824 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 8 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.28 dB | 0.30 dB |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2440 MHz; 10.000 dBm; 2 MHz)

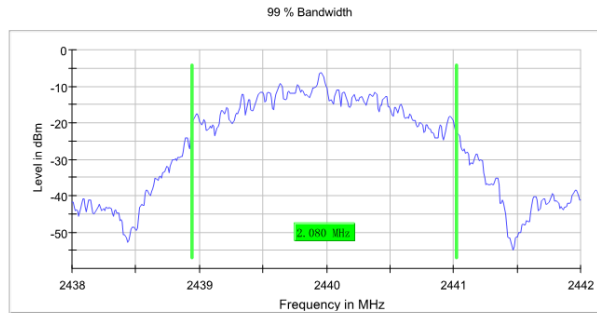
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2440.000000 | 2.080000 | --- | --- | 2438.945000 | 2441.025000 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2440.000000 | PASS |



Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.43800 GHz | 2.43800 GHz |
| Stop Frequency | 2.44200 GHz | 2.44200 GHz |
| Span | 4.000 MHz | 4.000 MHz |
| RBW | 20.000 kHz | >= 20.000 kHz |
| VBW | 100.000 kHz | >= 60.000 kHz |
| SweepPoints | 400 | ~ 400 |
| SweepTime | 94.824 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 11 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.15 dB | 0.30 dB |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2480 MHz; 10.000 dBm; 2 MHz)

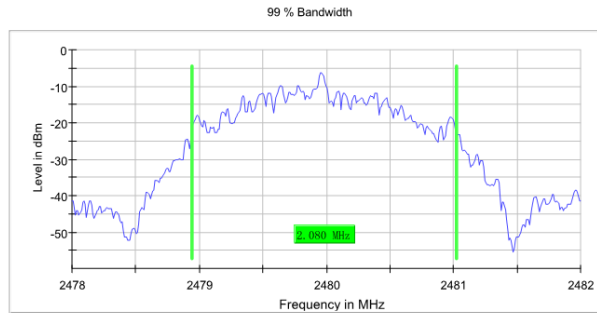
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000 | 2.080000 | --- | --- | 2478.945000 | 2481.025000 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000 | PASS |



Measurement

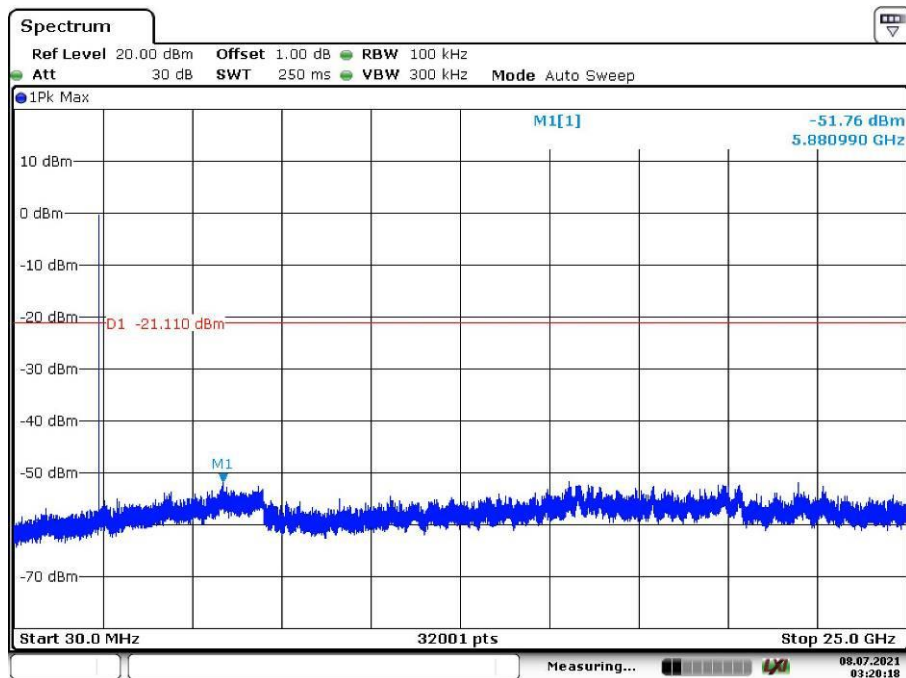
| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.47800 GHz | 2.47800 GHz |
| Stop Frequency | 2.48200 GHz | 2.48200 GHz |
| Span | 4.000 MHz | 4.000 MHz |
| RBW | 20.000 kHz | >= 20.000 kHz |
| VBW | 100.000 kHz | >= 60.000 kHz |
| SweepPoints | 400 | ~ 400 |
| SweepTime | 94.824 µs | AUTO |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| SweepType | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 9 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.17 dB | 0.30 dB |

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

GFSK(BLE) Mode, 1Mbps
Low Channel

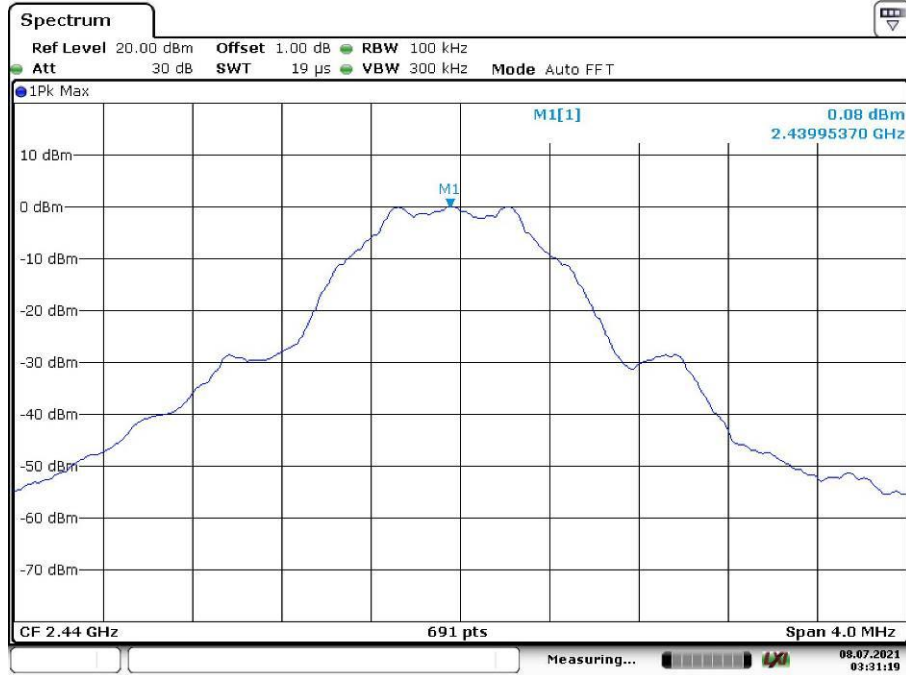


Date: 8.JUL.2021 03:14:42

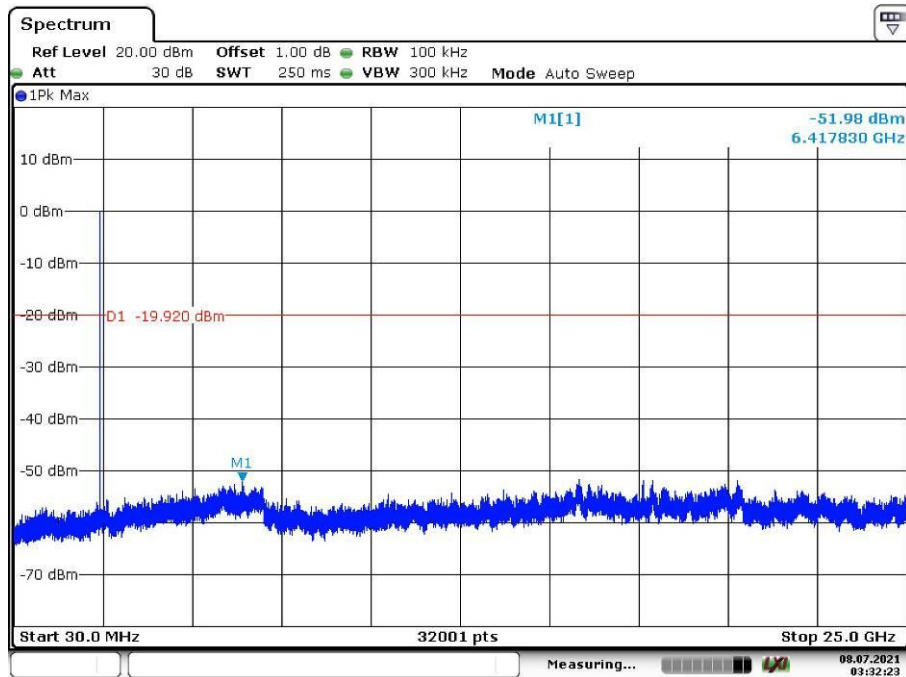


Date: 8.JUL.2021 03:20:19

Middle Channel

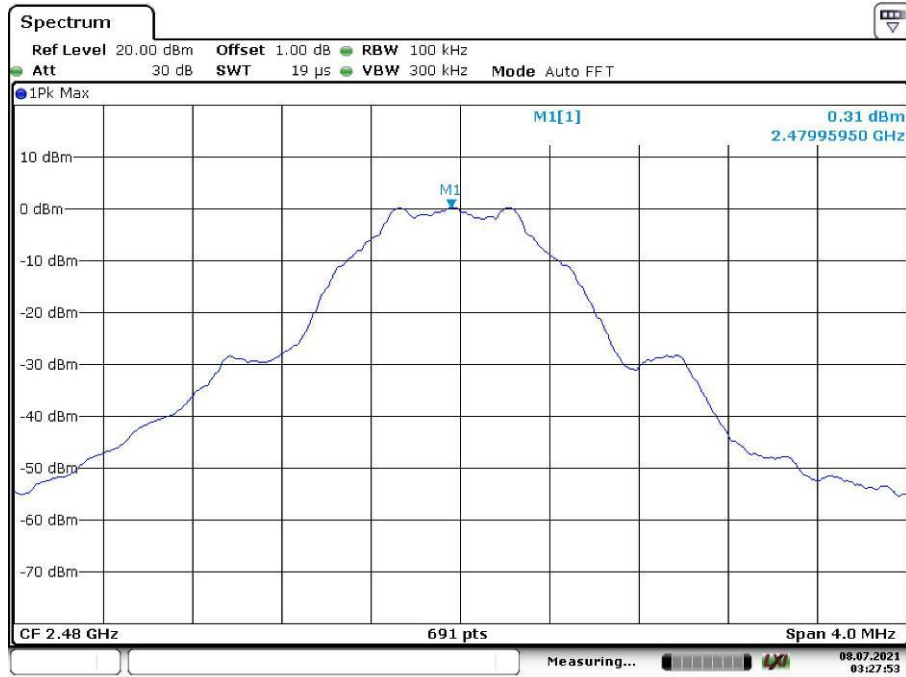


Date: 8.JUL.2021 03:31:20

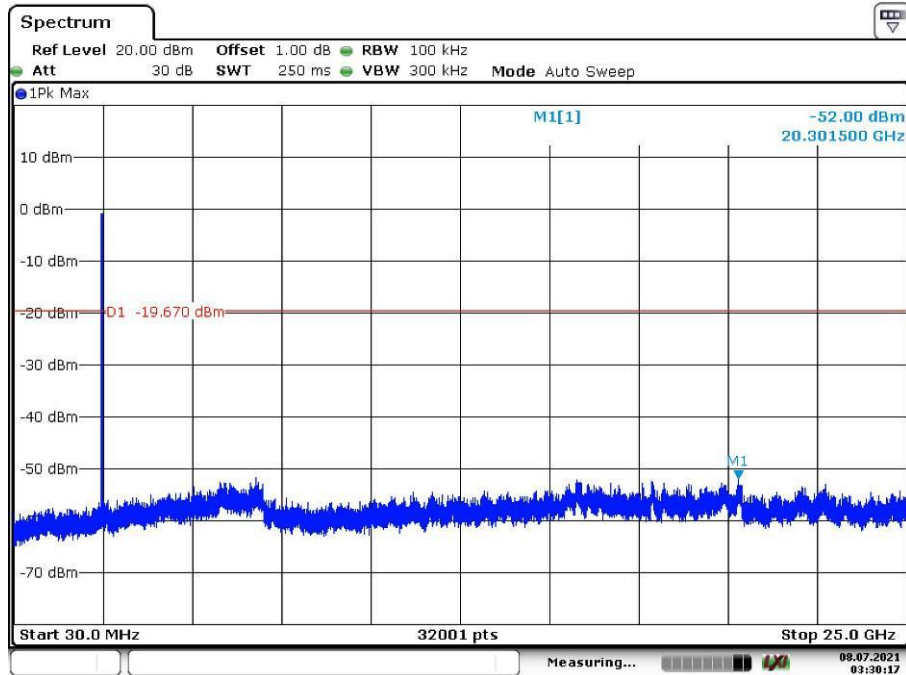


Date: 8.JUL.2021 03:32:24

High Channel

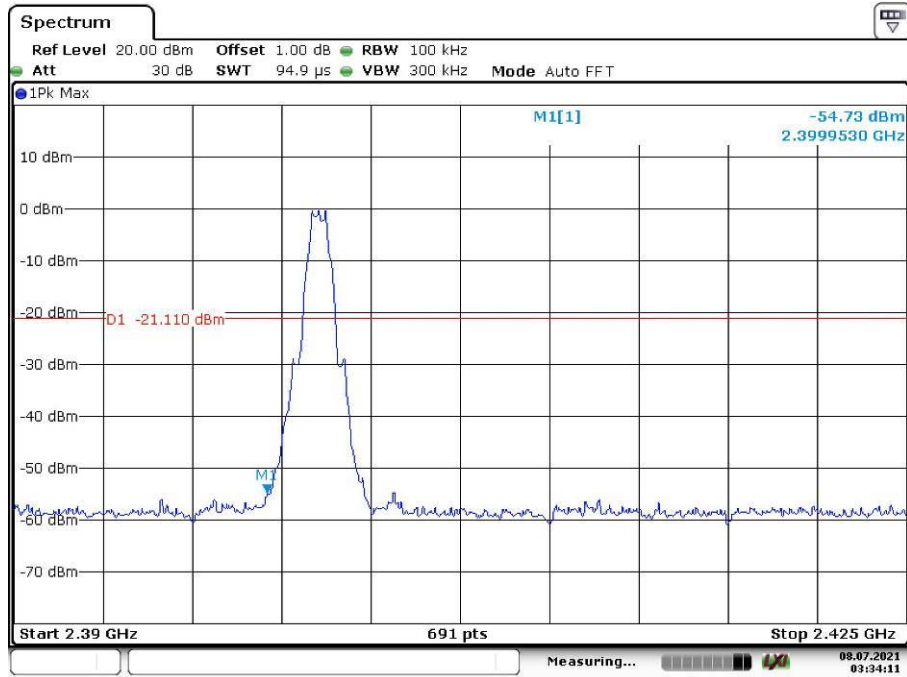


Date: 8.JUL.2021 03:27:54



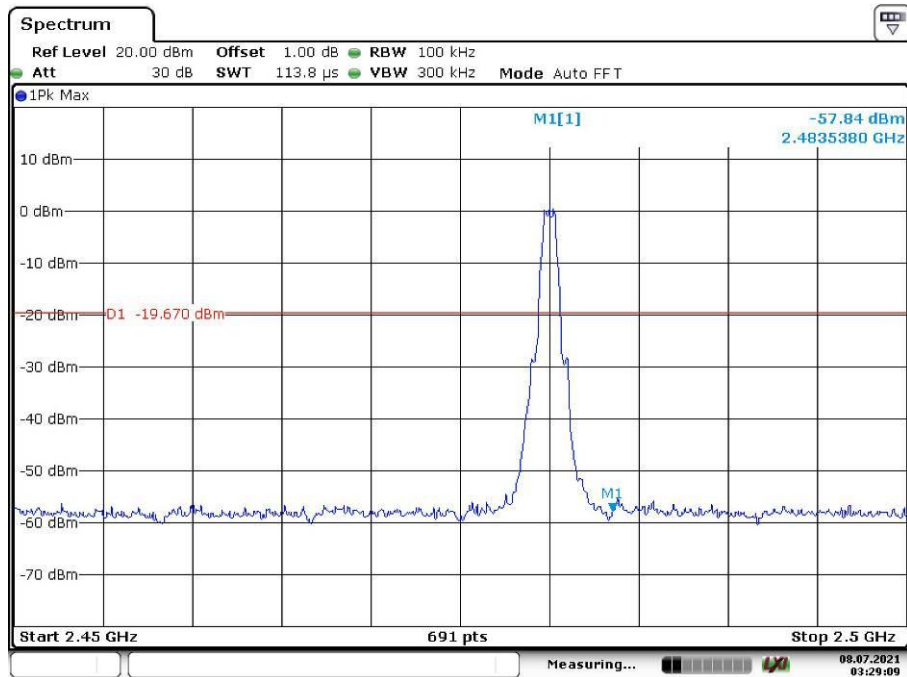
Date: 8.JUL.2021 03:30:18

Band Edge, Low Channel



Date: 8.JUL.2021 03:34:12

Band Edge, High Channel

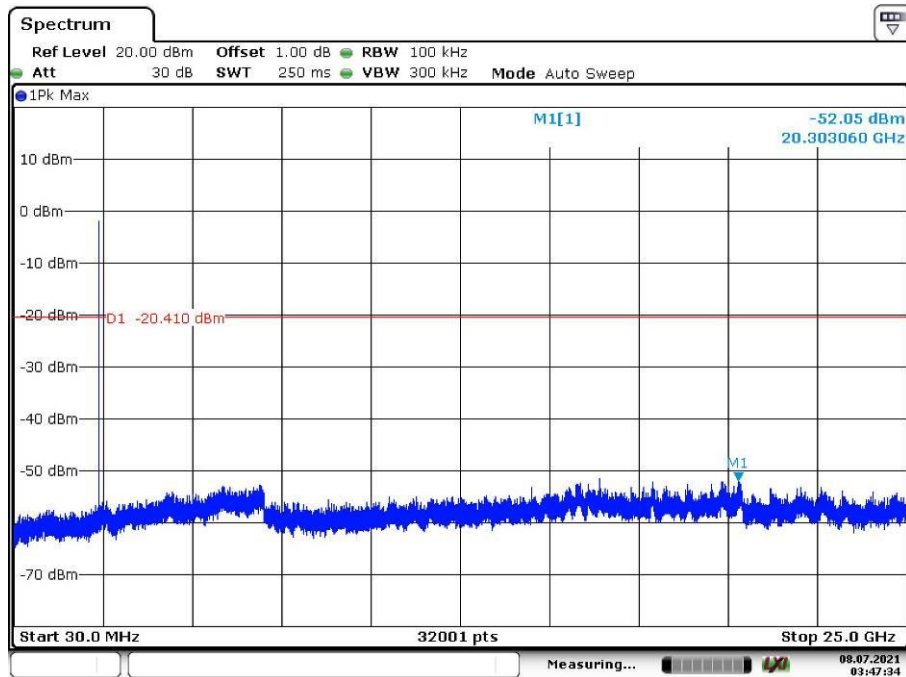


Date: 8.JUL.2021 03:29:10

GFSK(BLE) Mode, 2Mbps
Low Channel

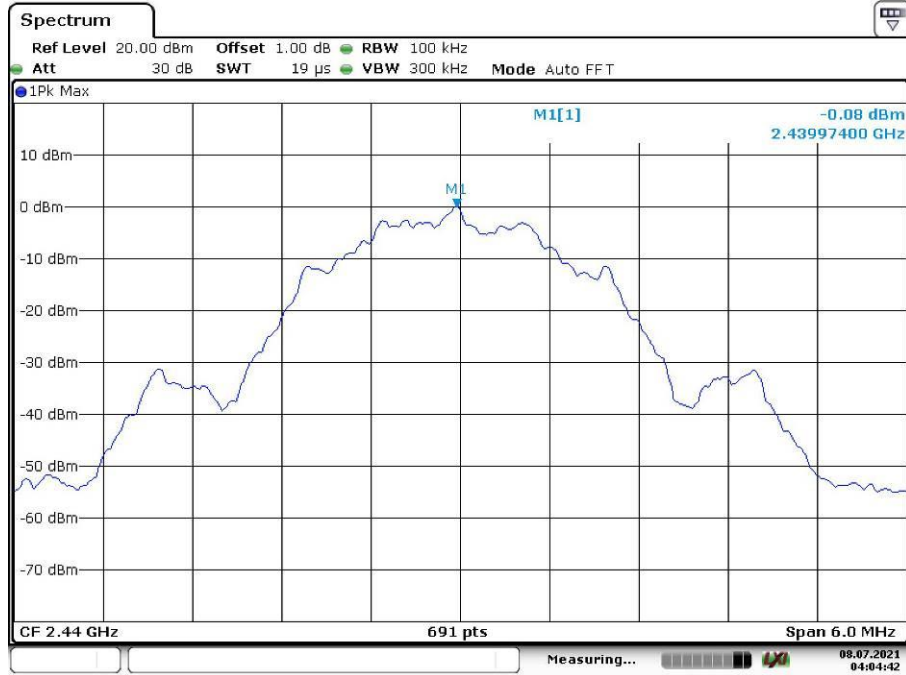


Date: 8.JUL.2021 03:44:53

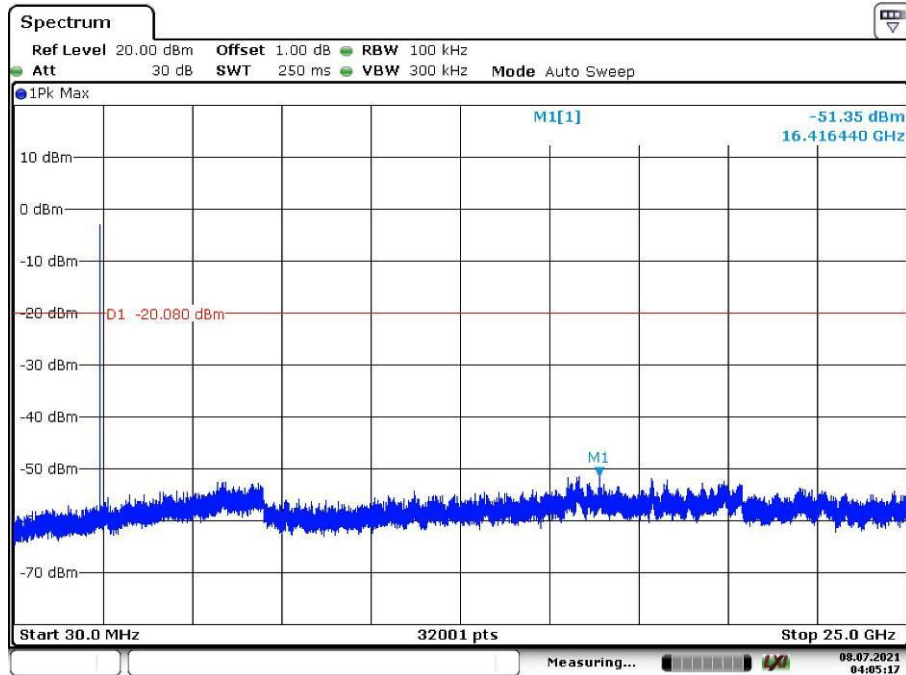


Date: 8.JUL.2021 03:47:35

Middle Channel

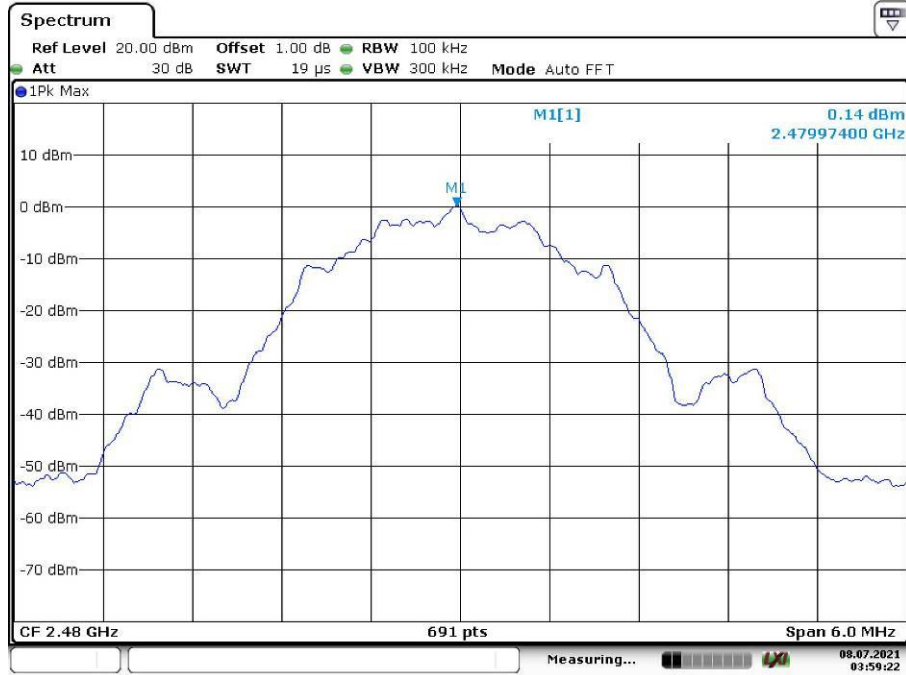


Date: 8.JUL.2021 04:04:43

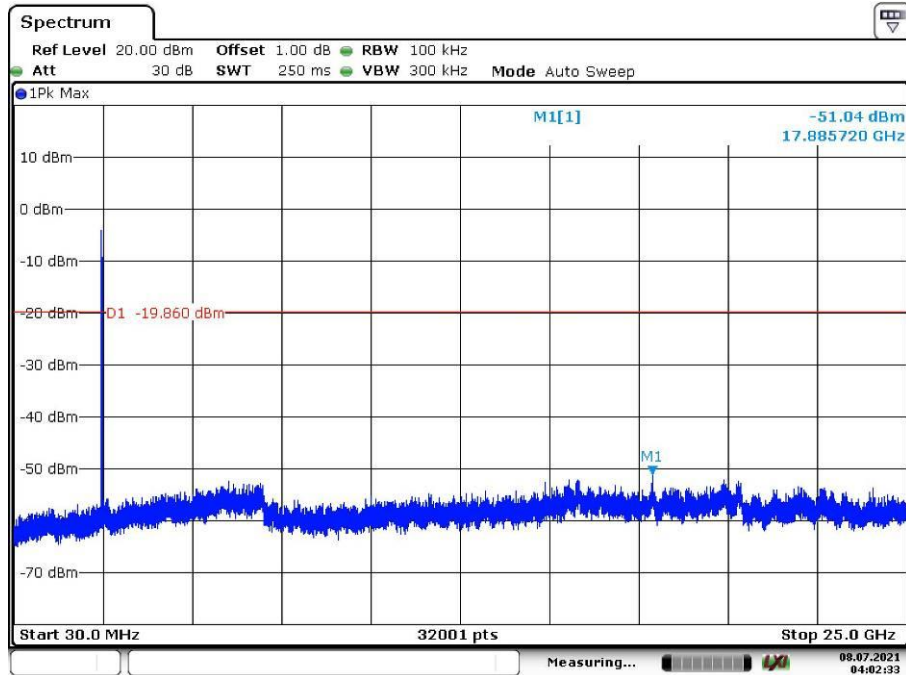


Date: 8.JUL.2021 04:05:18

High Channel

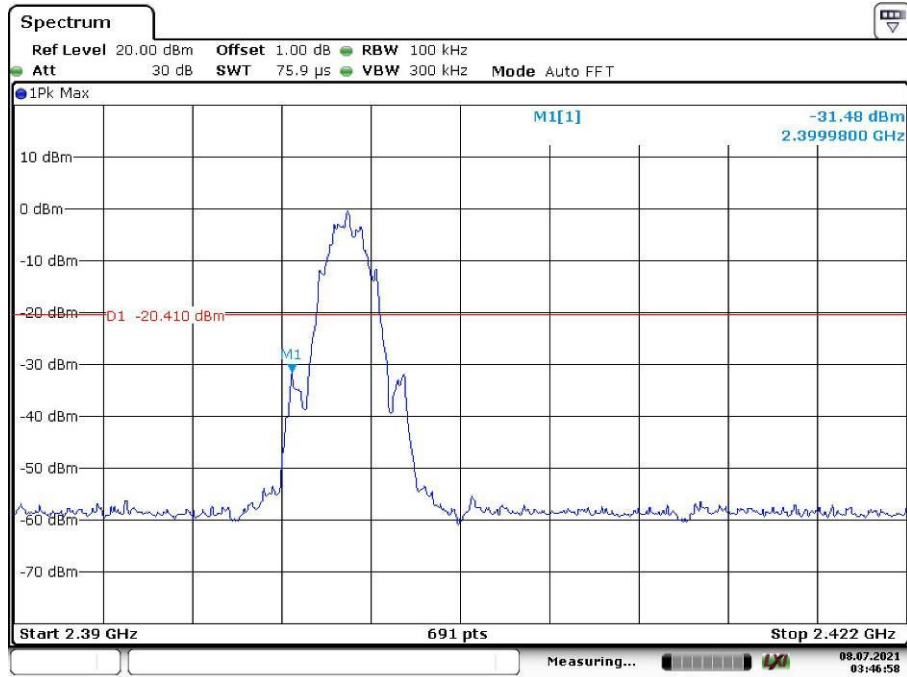


Date: 8.JUL.2021 03:59:22



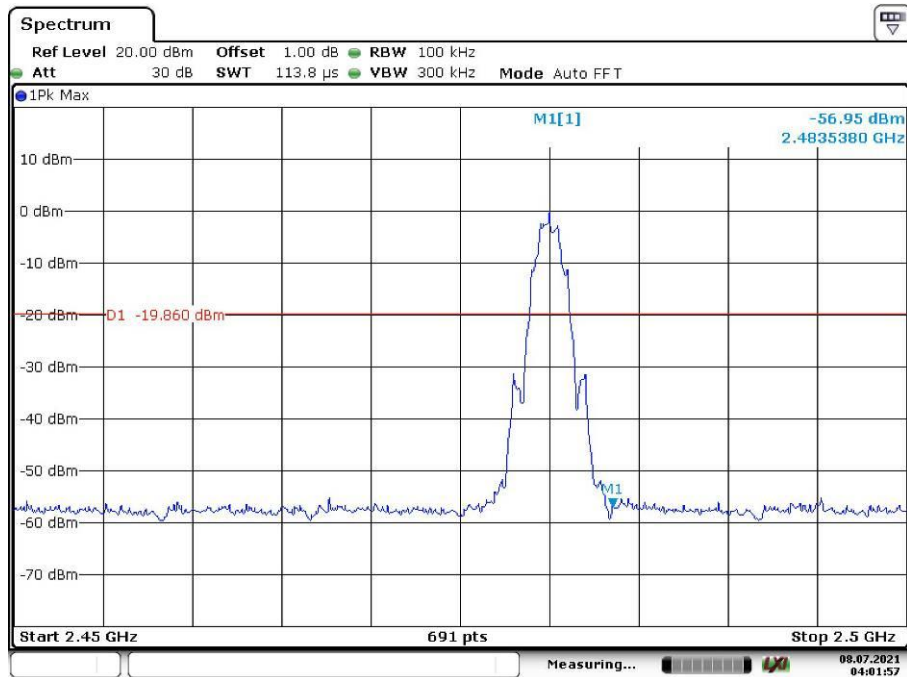
Date: 8.JUL.2021 04:02:33

Band Edge, Low Channel



Date: 8.JUL.2021 03:46:58

Band Edge, High Channel



Date: 8.JUL.2021 04:01:58

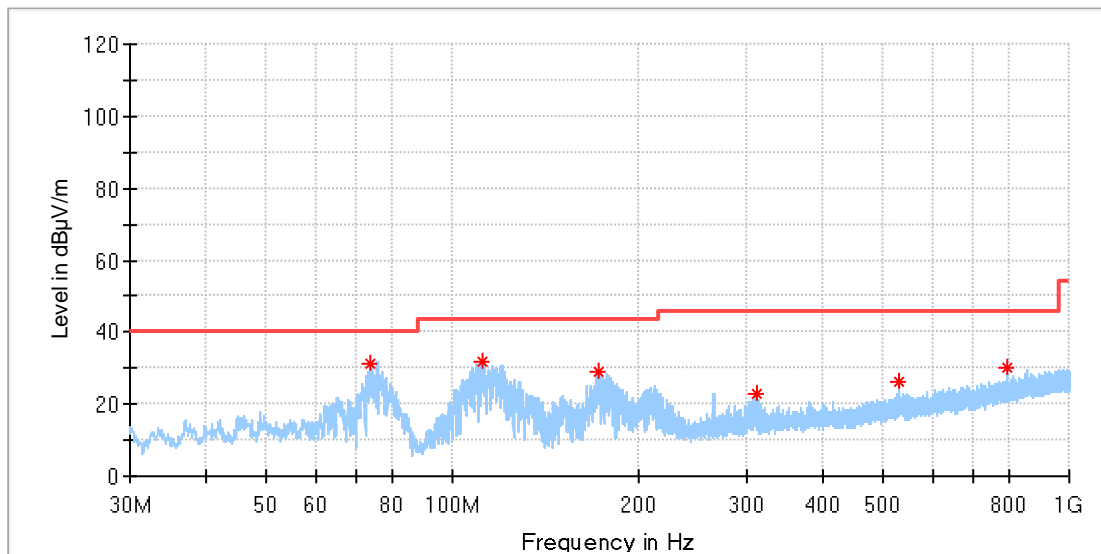
Appendix C.5: Test Results of Radiated Spurious Emissions

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: | BT & WLAN Module |
| Model: | BTWDB01 |
| Test Mode: | BLE 1M_Low channel |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 24 Humi:47% |
| Test Standard: | FCC 15.247 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |

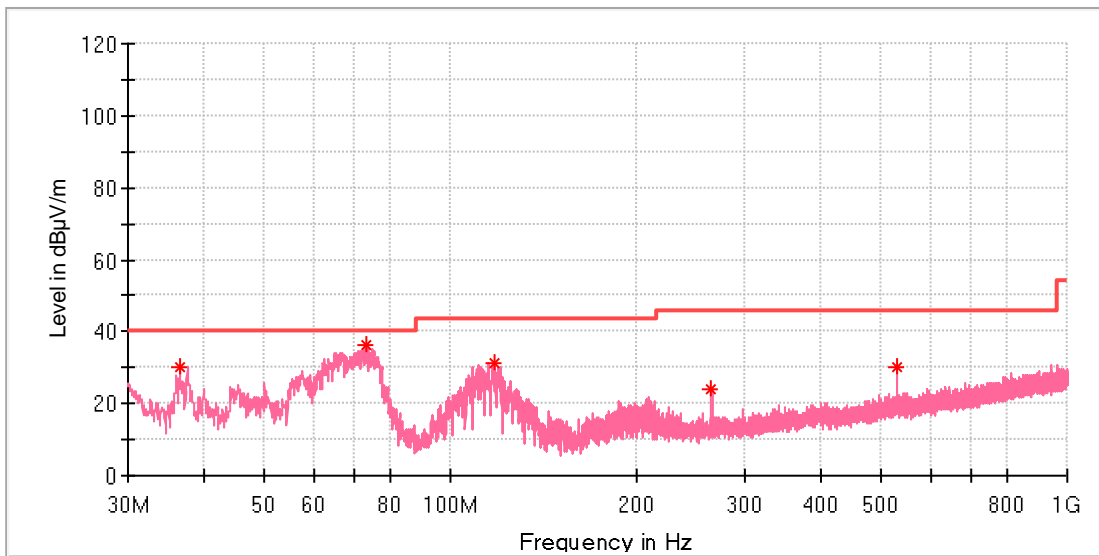


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 73.844000 | 31.43 | 40.00 | 8.57 | 100.0 | H | 250.0 | -23.1 |
| 111.722500 | 31.92 | 43.50 | 11.58 | 100.0 | H | 33.0 | -19.3 |
| 172.541500 | 28.86 | 43.50 | 14.64 | 100.0 | H | 328.0 | -21.0 |
| 311.688000 | 22.87 | 46.00 | 23.13 | 100.0 | H | 269.0 | -15.9 |
| 530.520000 | 26.19 | 46.00 | 19.81 | 100.0 | H | 66.0 | -11.3 |
| 795.766500 | 30.22 | 46.00 | 15.78 | 100.0 | H | 328.0 | -6.4 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_Low channel
 Test Voltage:: DC 3.3V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

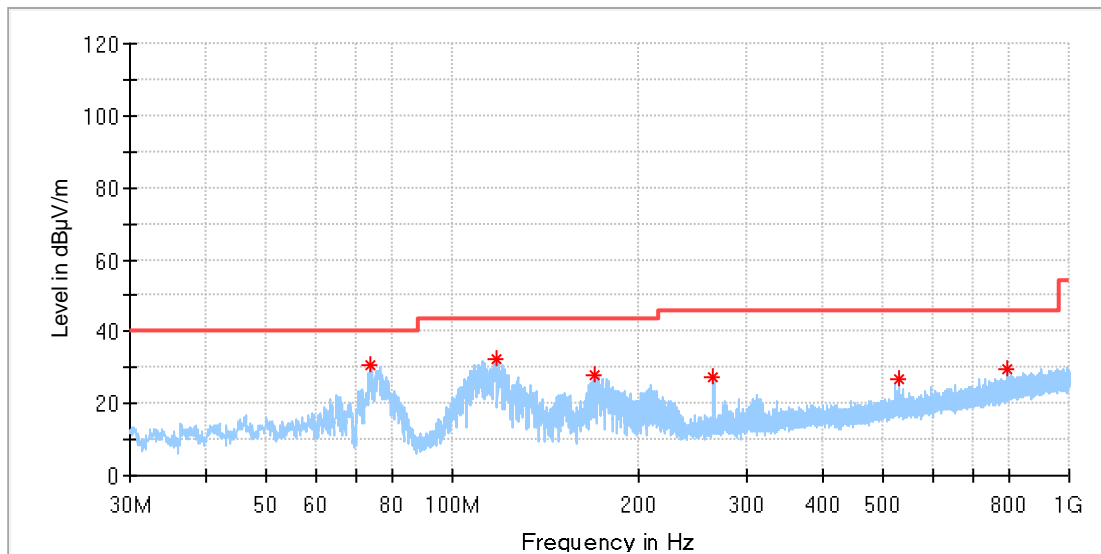


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 36.353500 | 29.89 | 40.00 | 10.11 | 100.0 | V | 111.0 | -21.4 |
| 72.777000 | 36.17 | 40.00 | 3.83 | 100.0 | V | 249.0 | -22.7 |
| 117.445500 | 31.33 | 43.50 | 12.17 | 100.0 | V | 309.0 | -20.3 |
| 265.225000 | 24.10 | 46.00 | 21.90 | 100.0 | V | 0.0 | -17.0 |
| 530.520000 | 30.28 | 46.00 | 15.72 | 100.0 | V | 68.0 | -11.3 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

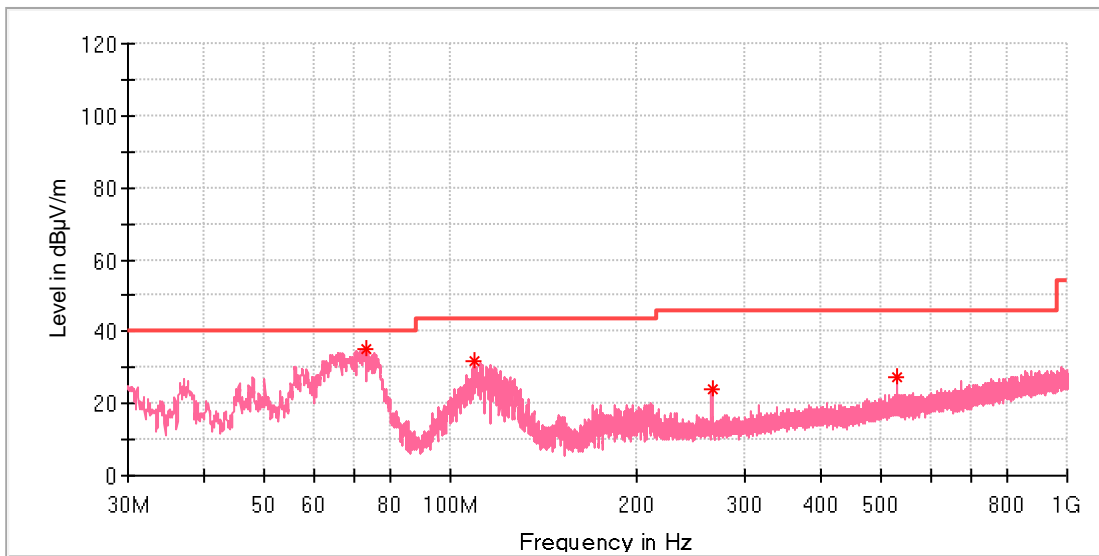


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 73.844000 | 30.52 | 40.00 | 9.48 | 100.0 | H | 210.0 | -23.1 |
| 117.833500 | 32.23 | 43.50 | 11.27 | 100.0 | H | 227.0 | -20.3 |
| 169.971000 | 27.79 | 43.50 | 15.71 | 100.0 | H | 330.0 | -21.2 |
| 265.225000 | 27.11 | 46.00 | 18.89 | 100.0 | H | 266.0 | -17.0 |
| 530.471500 | 26.57 | 46.00 | 19.43 | 100.0 | H | 309.0 | -11.3 |
| 795.766500 | 29.53 | 46.00 | 16.47 | 100.0 | H | 299.0 | -6.4 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



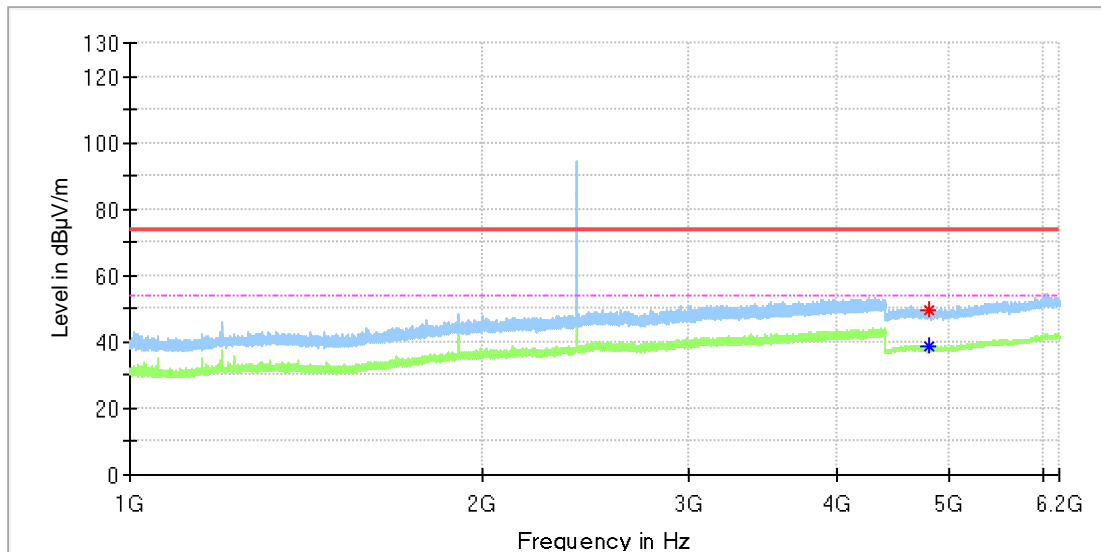
Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 73.165000 | 35.15 | 40.00 | 4.85 | 100.0 | V | 327.0 | -22.8 |
| 109.006500 | 32.08 | 43.50 | 11.42 | 100.0 | V | 298.0 | -19.0 |
| 265.273500 | 24.00 | 46.00 | 22.00 | 100.0 | V | 350.0 | -17.0 |
| 530.520000 | 27.08 | 46.00 | 18.92 | 100.0 | V | 210.0 | -11.3 |

1GHz-18GHz
 Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

| | |
|----------------|--------------------|
| EUT Name: | BT & WLAN Module |
| Model: | BTWDB01 |
| Test Mode: | BLE 1M_Low channel |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:45% |
| Test Standard: | FCC 15.247 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |

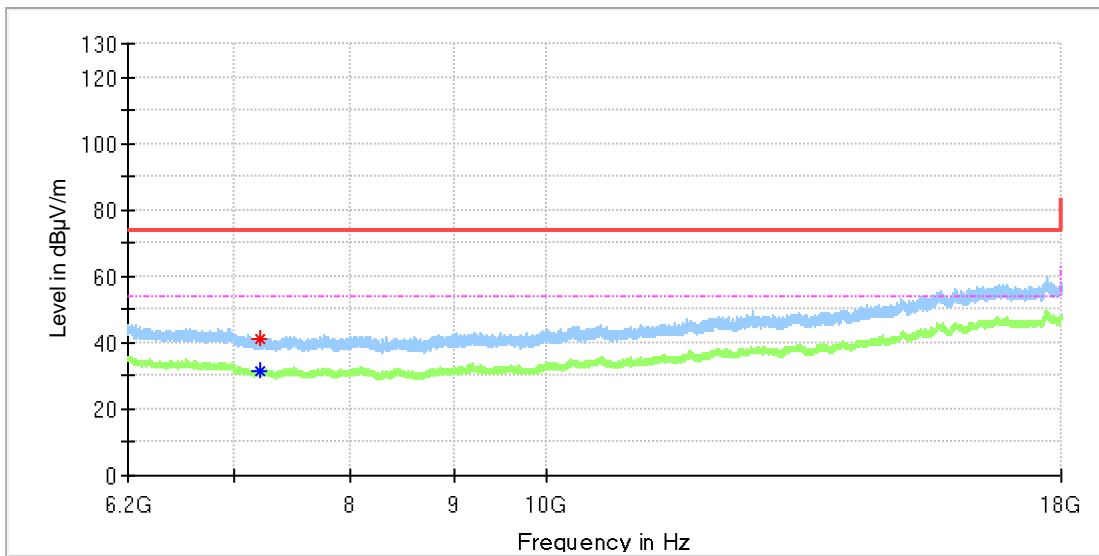


Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4802.000000 | 49.40 | -- | 74.00 | 24.60 | 100.0 | H | 261.0 | 11.8 |
| 4802.000000 | -- | 38.66 | 54.00 | 15.34 | 100.0 | H | 261.0 | 11.8 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_Low channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

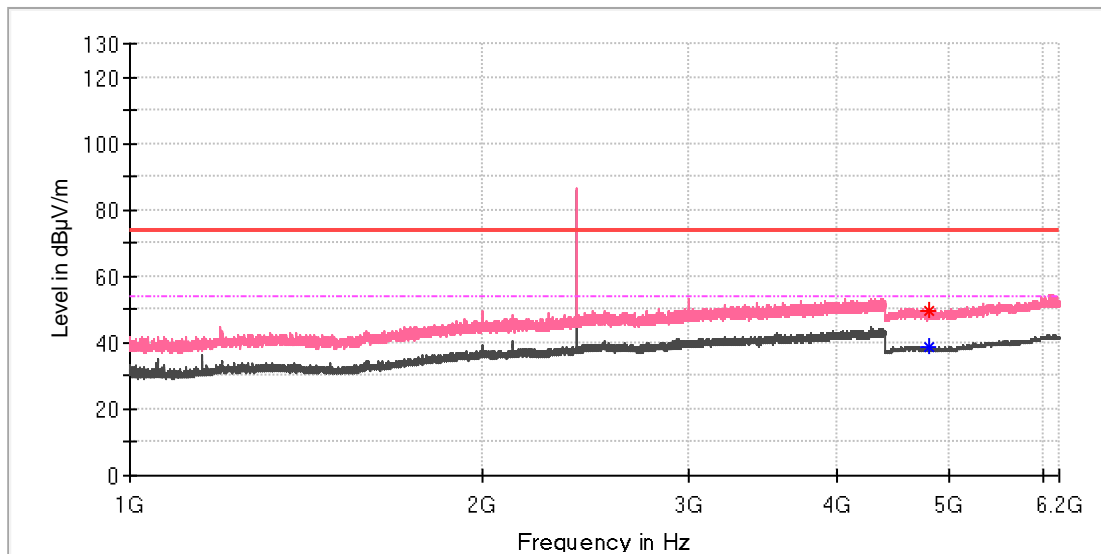


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7207.425000 | — | 31.60 | 54.00 | 22.40 | 100.0 | H | 306.0 | 8.8 |
| 7207.916667 | 41.18 | — | 74.00 | 32.82 | 100.0 | H | 168.0 | 8.8 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_Low channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

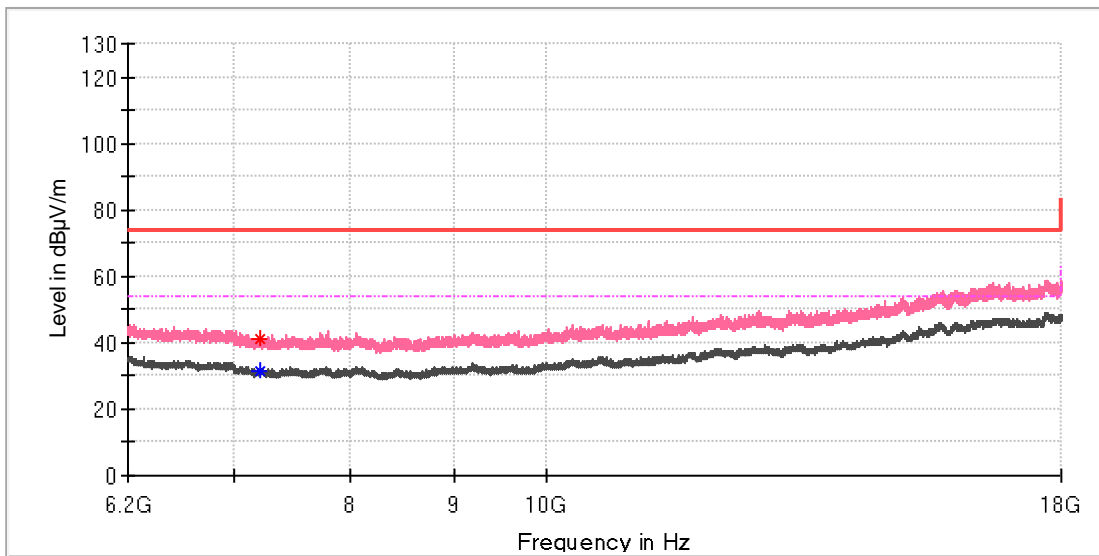


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4803.500000 | 49.28 | — | 74.00 | 24.72 | 100.0 | V | 341.0 | 11.8 |
| 4803.500000 | — | 38.61 | 54.00 | 15.39 | 100.0 | V | 341.0 | 11.8 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_Low channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

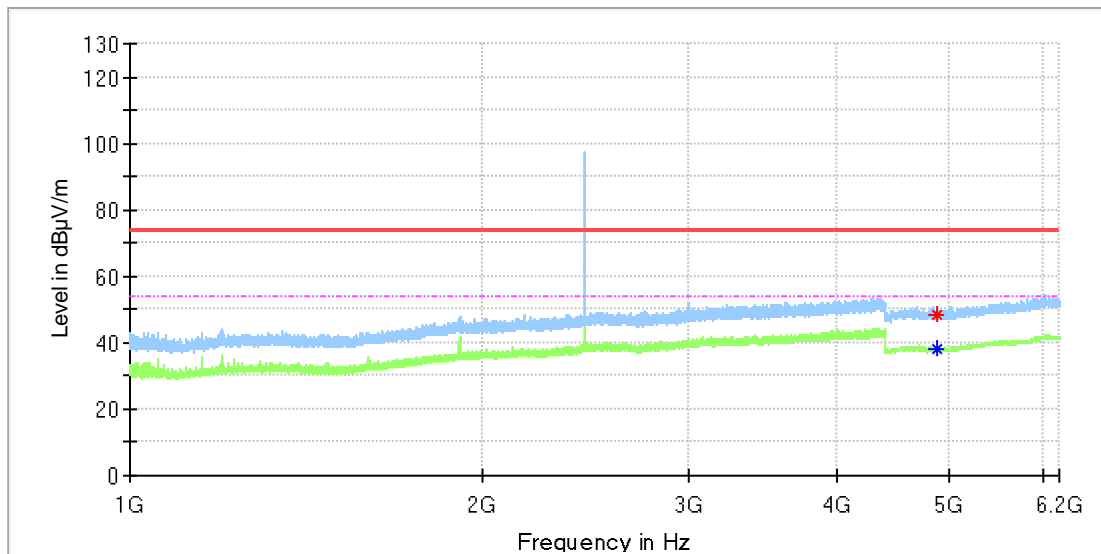


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7203.491667 | — | 31.55 | 54.00 | 22.45 | 100.0 | V | 19.0 | 8.8 |
| 7205.950000 | 41.14 | — | 74.00 | 32.86 | 100.0 | V | 34.0 | 8.8 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_Mid channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

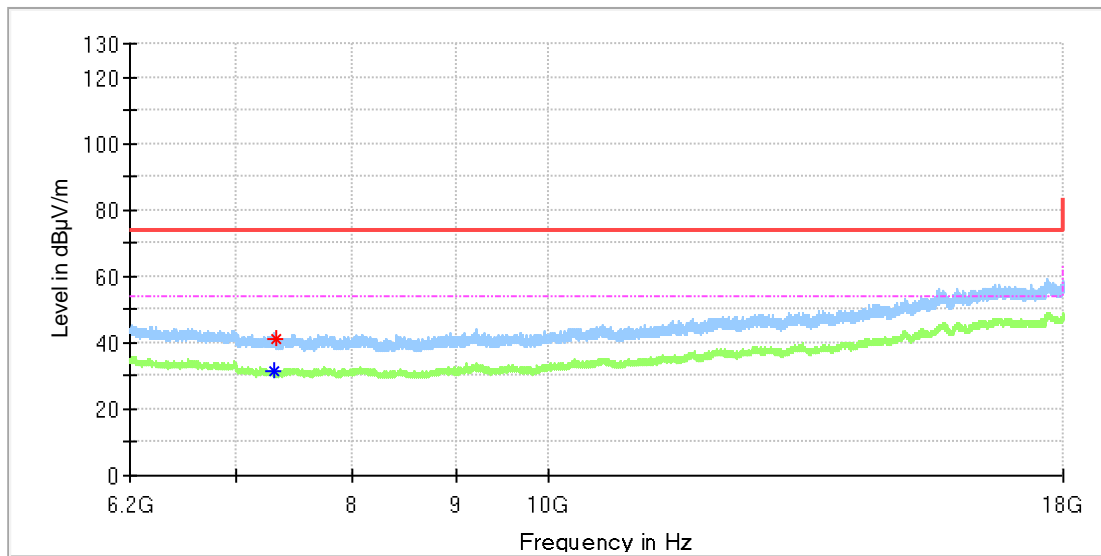


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4879.000000 | 48.52 | — | 74.00 | 25.48 | 100.0 | H | 236.0 | 11.8 |
| 4881.000000 | — | 37.83 | 54.00 | 16.17 | 100.0 | H | 134.0 | 11.8 |

EUT Information

| | |
|----------------|--------------------|
| EUT Name: | BT & WLAN Module |
| Model: | BTWDB01 |
| Test Mode: | BLE 1M_Mid channel |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:45% |
| Test Standard: | FCC 15.247 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |

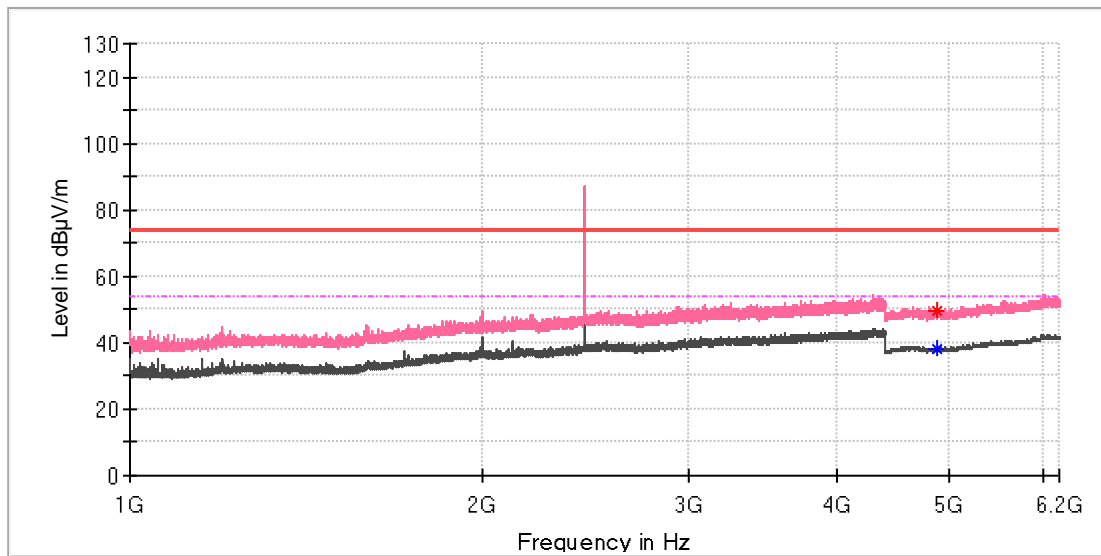


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7310.183333 | — | 31.44 | 54.00 | 22.56 | 100.0 | H | 21.0 | 8.2 |
| 7325.916667 | 40.91 | — | 74.00 | 33.09 | 100.0 | H | 173.0 | 8.2 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_Mid channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

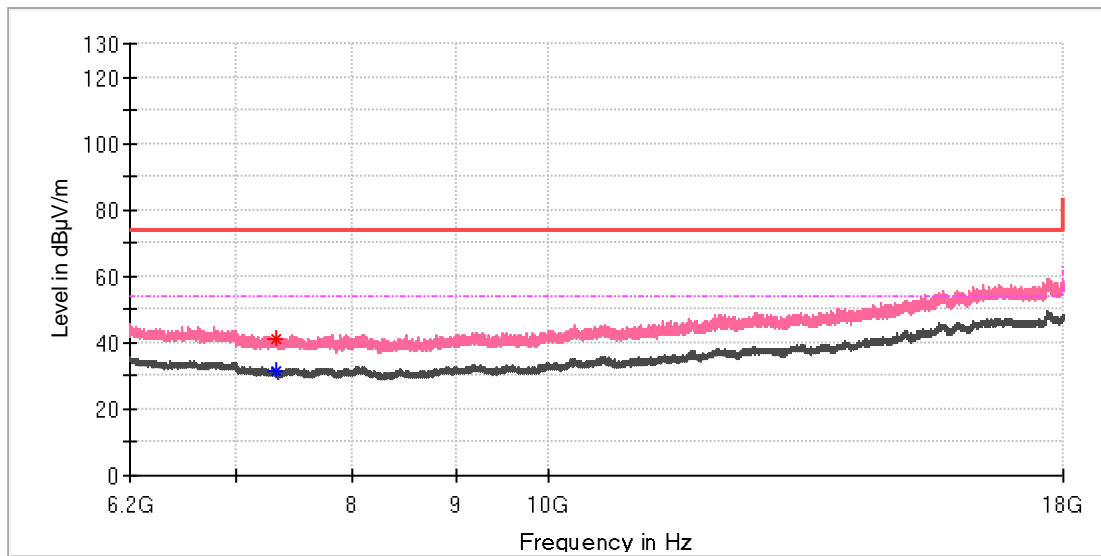


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4876.500000 | 49.37 | — | 74.00 | 24.63 | 100.0 | V | 277.0 | 11.8 |
| 4883.500000 | — | 38.15 | 54.00 | 15.85 | 100.0 | V | 26.0 | 11.8 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_Mid channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

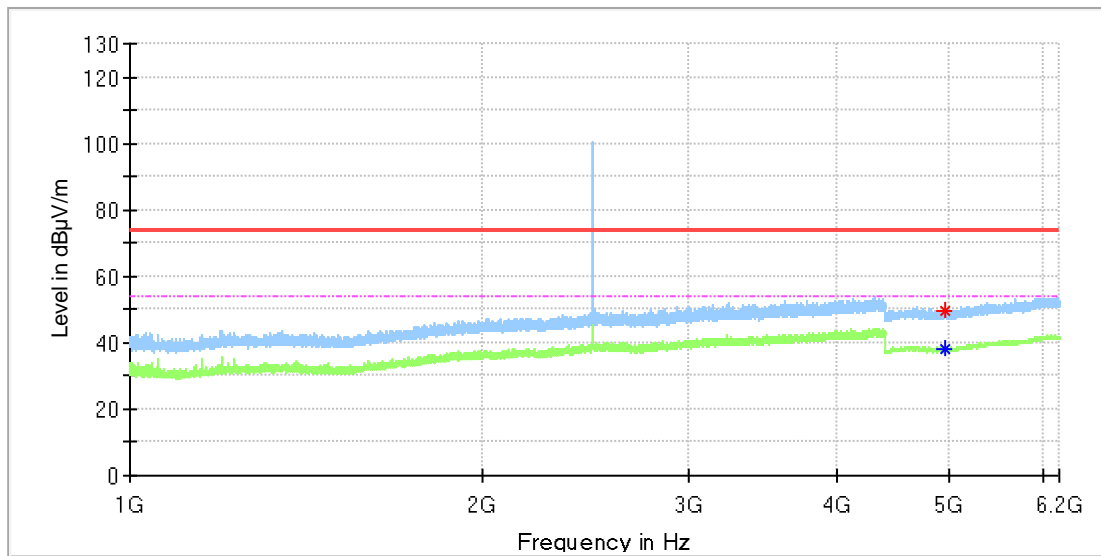


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7322.966667 | — | 31.57 | 54.00 | 22.43 | 100.0 | V | 185.0 | 8.2 |
| 7324.933333 | 41.29 | — | 74.00 | 32.71 | 100.0 | V | 0.0 | 8.2 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

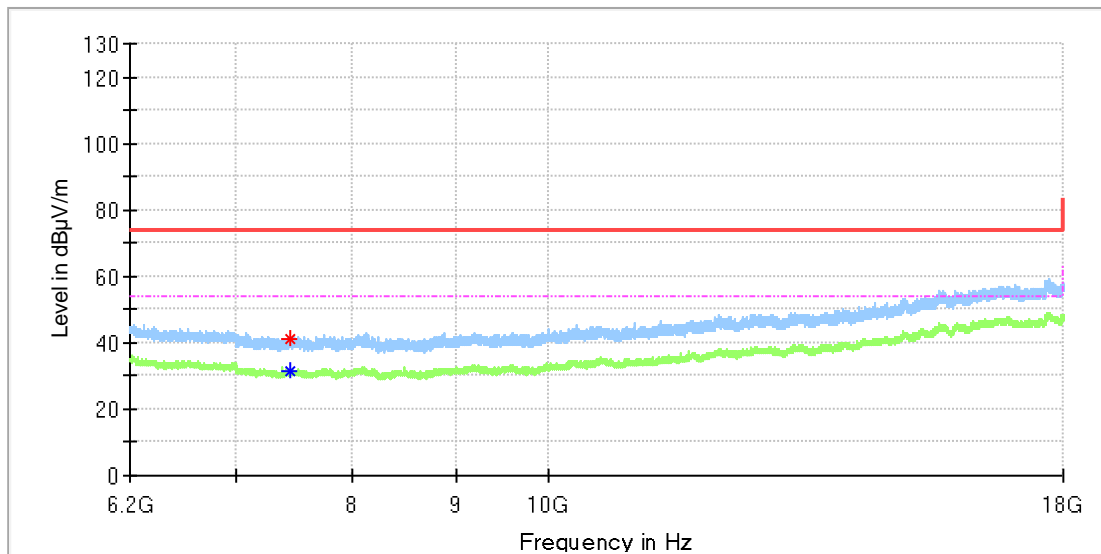


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4958.000000 | 49.44 | — | 74.00 | 24.56 | 100.0 | H | 137.0 | 11.8 |
| 4963.000000 | — | 38.25 | 54.00 | 15.75 | 100.0 | H | 310.0 | 11.8 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

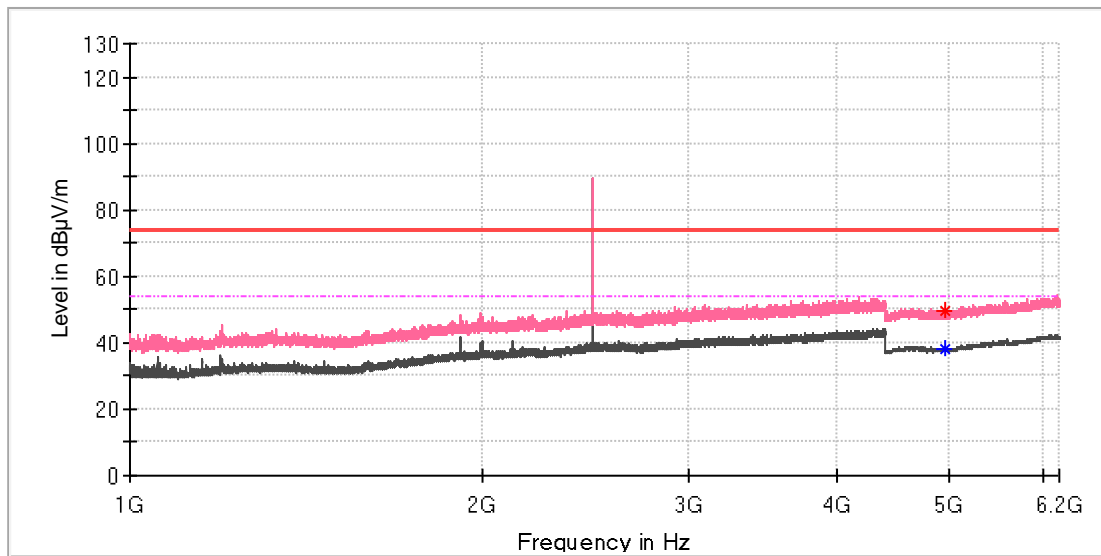


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7448.833333 | — | 31.47 | 54.00 | 22.53 | 100.0 | H | 24.0 | 8.5 |
| 7450.308333 | 41.12 | — | 74.00 | 32.88 | 100.0 | H | 94.0 | 8.5 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

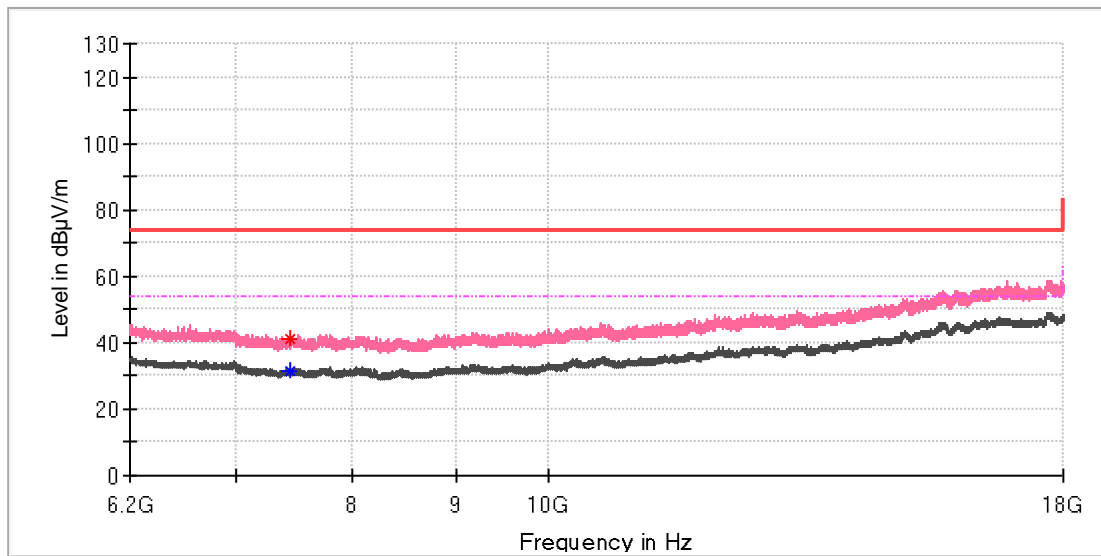


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4956.500000 | 49.60 | — | 74.00 | 24.40 | 100.0 | V | 321.0 | 11.8 |
| 4956.500000 | — | 38.28 | 54.00 | 15.72 | 100.0 | V | 321.0 | 11.8 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



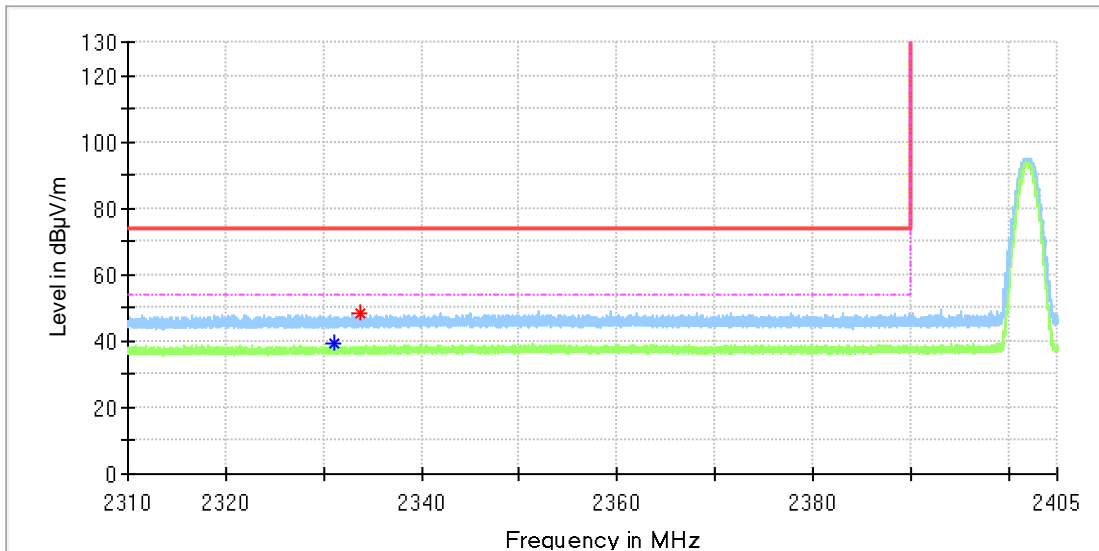
Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7439.000000 | — | 31.60 | 54.00 | 22.40 | 100.0 | V | 278.0 | 8.4 |
| 7441.458333 | 40.84 | — | 74.00 | 33.16 | 100.0 | V | 55.0 | 8.4 |

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

EUT Information

| | |
|----------------|--------------------|
| EUT Name: | BT & WLAN Module |
| Model: | BTWDB01 |
| Test Mode: | BLE 1M_Low channel |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:45% |
| Test Standard: | FCC 15.247 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |

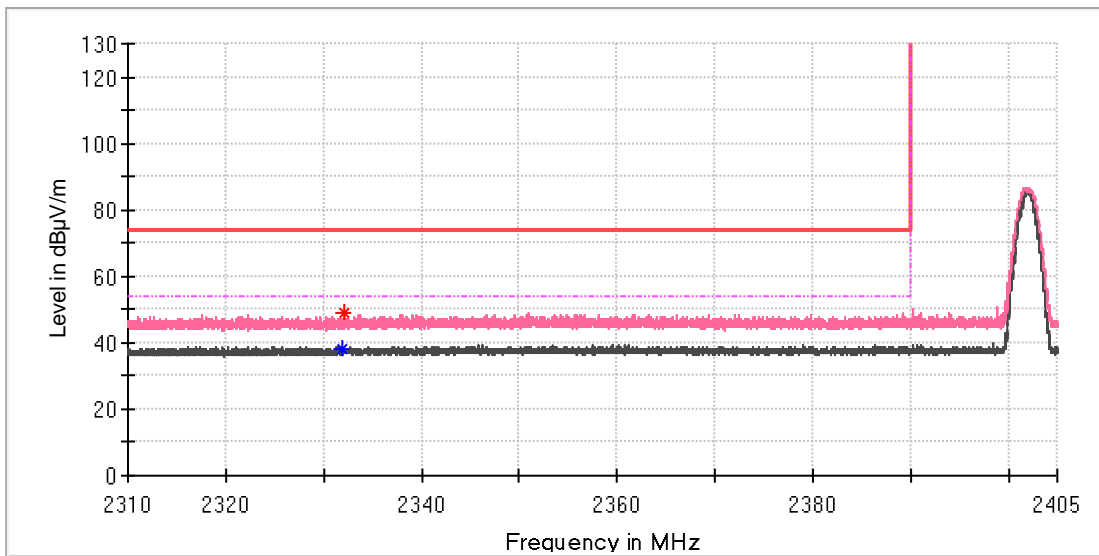


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2330.992500 | --- | 39.18 | 54.00 | 14.82 | 100.0 | H | 162.0 | 6.7 |
| 2333.847750 | 48.27 | --- | 74.00 | 25.73 | 100.0 | H | 331.0 | 6.7 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_Low channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

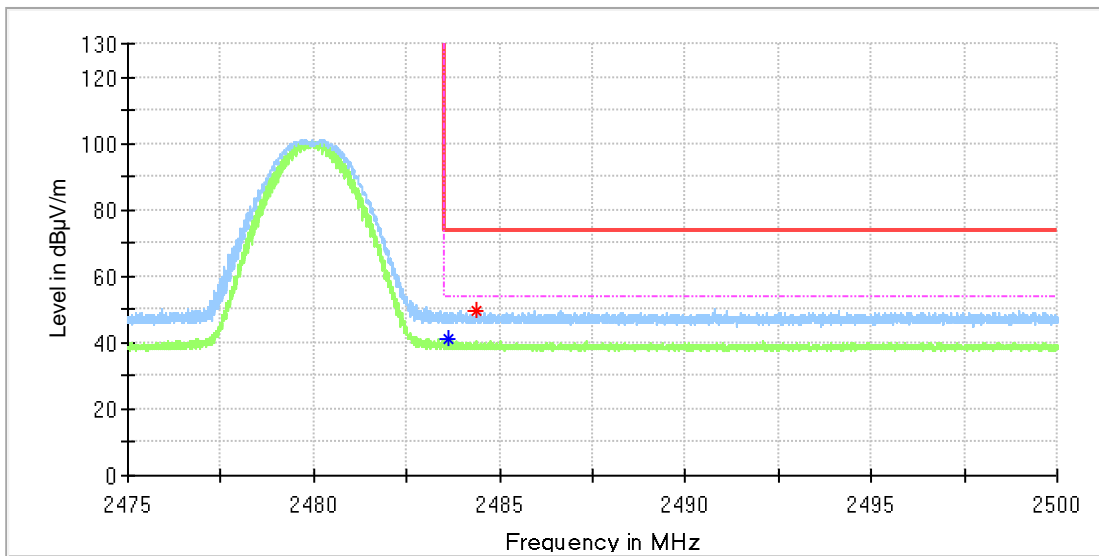


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2331.836250 | — | 38.11 | 54.00 | 15.89 | 100.0 | V | 118.0 | 6.7 |
| 2332.025250 | 49.11 | — | 74.00 | 24.89 | 100.0 | V | 277.0 | 6.7 |

EUT Information

| | |
|----------------|---------------------|
| EUT Name: | BT & WLAN Module |
| Model: | BTWDB01 |
| Test Mode: | BLE 1M_High channel |
| Test Voltage:: | DC 3.3V |
| Remark: | Temp 23 Humi:45% |
| Test Standard: | FCC 15.247 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |

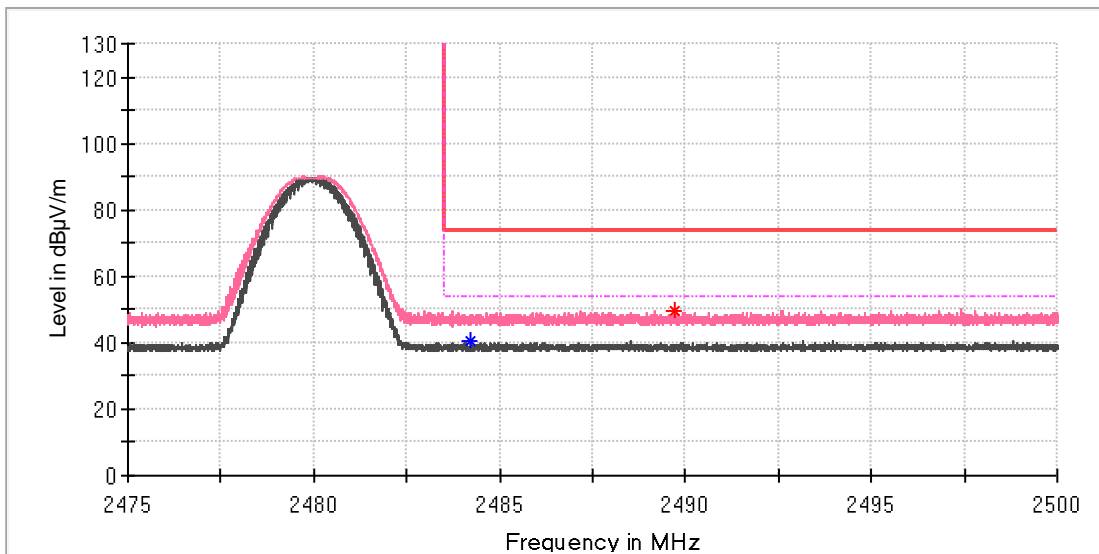


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.622500 | — | 41.12 | 54.00 | 12.88 | 100.0 | H | 131.0 | 7.4 |
| 2484.367500 | 49.55 | — | 74.00 | 24.45 | 100.0 | H | 122.0 | 7.4 |

EUT Information

EUT Name: BT & WLAN Module
 Model: BTWDB01
 Test Mode: BLE 1M_High channel
 Test Voltage:: DC 3.3V
 Remark: Temp 23 Humi:45%
 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) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2484.240000 | — | 40.26 | 54.00 | 13.74 | 100.0 | V | 153.0 | 7.4 |
| 2489.722500 | 49.33 | — | 74.00 | 24.67 | 100.0 | V | 92.0 | 7.4 |