

Appendix C: Test results of EMC (08 version)

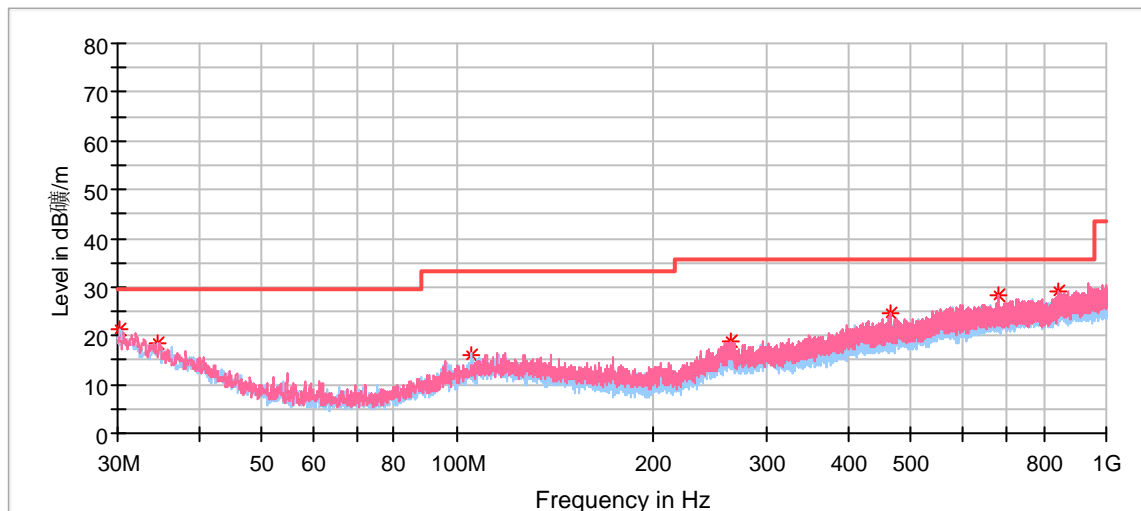
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|--------------------------------------------------------------------------|-----------|
| APPENDIX C: TEST RESULTS OF EMC (08 VERSION) | 1 |
| APPENDIX C.1: TEST PLOTS OF RADIATED EMISSION, BELOW 1GHZ | 2 |
| <i>BT+GPRS+Normal Operating+LED on</i> | 2 |
| <i>BT+EMTC+Normal Operating+LED on</i> | 4 |
| <i>BT+NB+Normal Operating+LED on</i> | 6 |
| APPENDIX C.2: TEST PLOTS OF RADIATED EMISSION, ABOVE 1GHZ | 8 |
| <i>BT+GPRS+Normal Operating+LED on</i> | 8 |
| <i>BT+EMTC+Normal Operating+LED on</i> | 10 |
| <i>BT+NB+Normal Operating+LED on</i> | 12 |
| APPENDIX C.3: TEST PLOTS OF CONDUCTED EMISSIONS ON AC MAINS | 14 |
| <i>BT+GPRS+Normal Operating+LED on</i> | 14 |
| <i>BT+EMTC+Normal Operating+LED on</i> | 16 |
| <i>BT+NB+Normal Operating+LED on</i> | 18 |

Appendix C.1: Test Plots of Radiated Emission, Below 1GHz

BT+GPRS+Normal Operating+LED on

EUT Information

| | |
|---------------|--------------------------------------|
| EUT Name: | Amazon Locker |
| Order Number: | 168324514 |
| Model: | ZL-ODIN-V1 |
| Test Mode: | BT+GPRS link+Normal Operating+LED on |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Charlie Zha |
| Review By: | Gary Chen |
| Remark: | 10m Chamber (FCC 15B) |

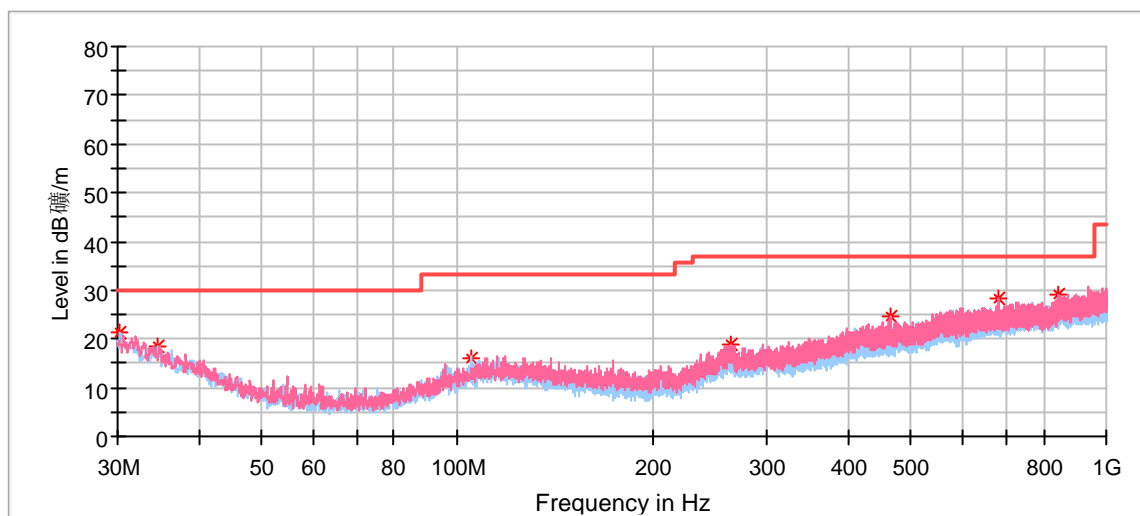


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 30.269444 | 21.14 | 30.00 | 8.86 | 400.0 | H | 342.0 | -9.8 |
| 34.580556 | 18.50 | 30.00 | 11.50 | 400.0 | H | 132.0 | -12.3 |
| 105.175000 | 15.86 | 33.50 | 17.64 | 400.0 | H | 218.0 | -16.6 |
| 263.123333 | 19.07 | 36.00 | 16.93 | 400.0 | V | 232.0 | -7.3 |
| 466.284444 | 24.43 | 36.00 | 11.57 | 400.0 | V | 297.0 | -3.4 |
| 680.654444 | 28.42 | 36.00 | 7.58 | 400.0 | V | 235.0 | -0.2 |
| 844.800000 | 29.15 | 36.00 | 6.85 | 400.0 | V | 165.0 | 1.2 |

EUT Information

| | |
|---------------|--------------------------------------|
| EUT Name: | Amazon Locker |
| Order Number: | 168324514 |
| Model: | ZL-ODIN-V1 |
| Test Mode: | BT+GPRS link+Normal Operating+LED on |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Charlie Zha |
| Review By: | Gary Chen |
| Remark: | 10m Chamber (ICES-003) |



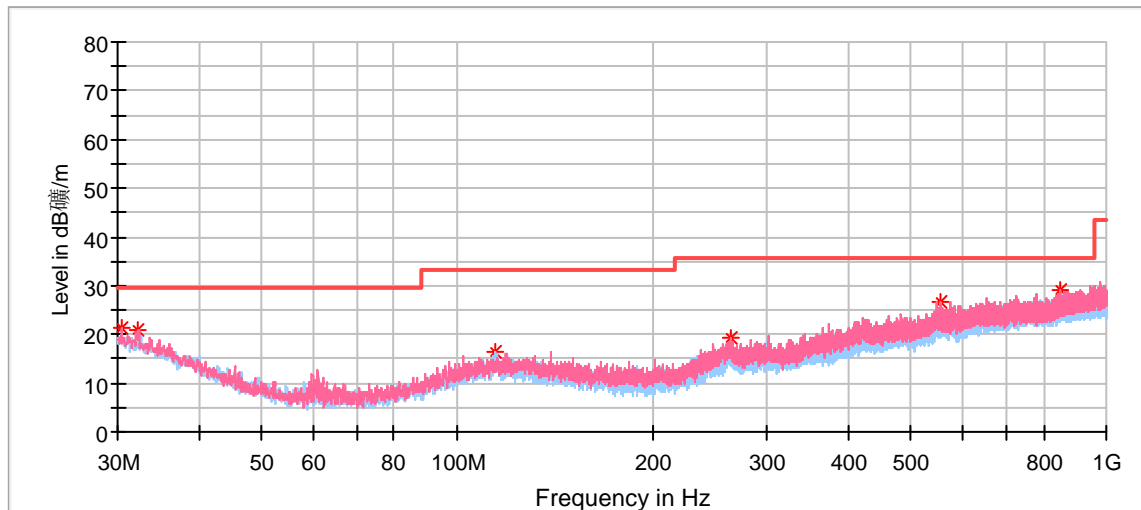
Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 30.269444 | 21.14 | 30.00 | 8.86 | 400.0 | H | 342.0 | -9.8 |
| 34.580556 | 18.50 | 30.00 | 11.50 | 400.0 | H | 132.0 | -12.3 |
| 105.175000 | 15.86 | 33.10 | 17.24 | 400.0 | H | 218.0 | -16.6 |
| 263.123333 | 19.07 | 37.00 | 17.93 | 400.0 | V | 232.0 | -7.3 |
| 466.284444 | 24.43 | 37.00 | 12.57 | 400.0 | V | 297.0 | -3.4 |
| 680.654444 | 28.42 | 37.00 | 8.58 | 400.0 | V | 235.0 | -0.2 |
| 844.800000 | 29.15 | 37.00 | 7.85 | 400.0 | V | 165.0 | 1.2 |

BT+EMTC+Normal Operating+LED on

EUT Information

| | |
|---------------|--------------------------------------|
| EUT Name: | Amazon Locker |
| Order Number: | 168324514 |
| Model: | ZL-ODIN-V1 |
| Test Mode: | BT+EMTC Link+LED on+Normal Operating |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Charlie Zha |
| Review By: | Gary Chen |
| Remark: | 10m Chamber (FCC 15B) |

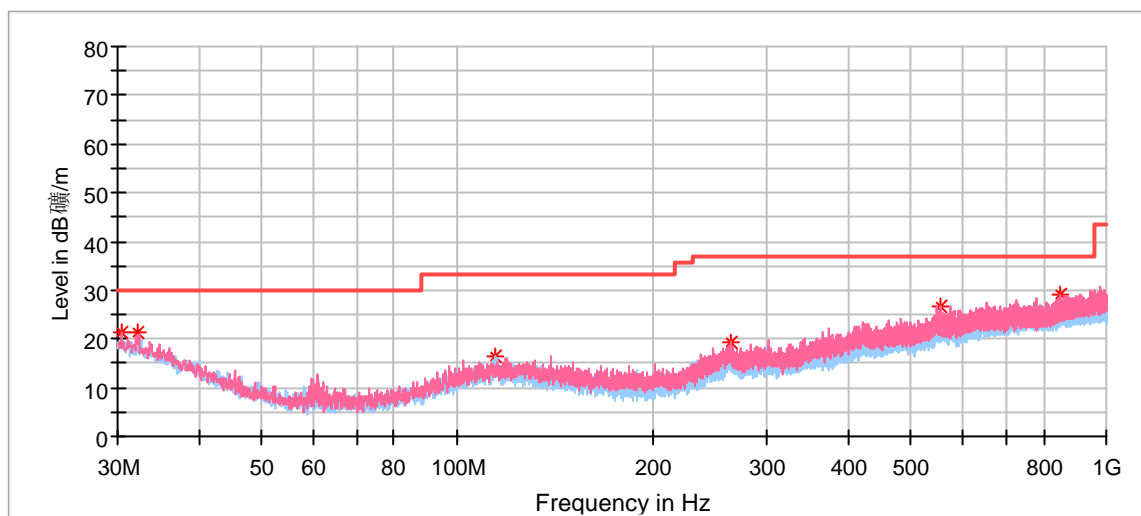


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 30.377222 | 21.29 | 30.00 | 8.71 | 300.0 | V | 131.0 | -4.7 |
| 32.263333 | 21.13 | 30.00 | 8.87 | 300.0 | V | 192.0 | -5.7 |
| 114.228333 | 16.29 | 33.50 | 17.21 | 300.0 | H | 208.0 | -15.6 |
| 263.985556 | 19.45 | 36.00 | 16.55 | 300.0 | V | 250.0 | -7.3 |
| 556.763889 | 26.56 | 36.00 | 9.44 | 300.0 | V | 118.0 | -1.2 |
| 847.171111 | 29.00 | 36.00 | 7.00 | 300.0 | V | 77.0 | 1.3 |

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+EMTC link+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: 10m Chamber (ICES-003)



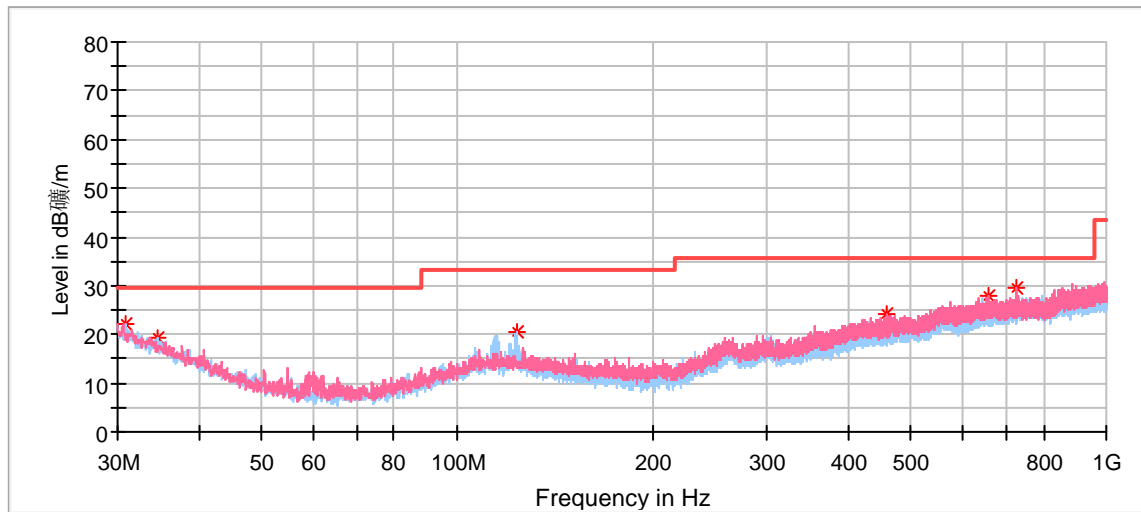
Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 30.377222 | 21.29 | 30.00 | 8.71 | 300.0 | V | 131.0 | -4.7 |
| 32.263333 | 21.13 | 30.00 | 8.87 | 300.0 | V | 192.0 | -5.7 |
| 114.228333 | 16.29 | 33.10 | 16.81 | 300.0 | H | 208.0 | -15.6 |
| 263.985556 | 19.45 | 37.00 | 17.55 | 300.0 | V | 250.0 | -7.3 |
| 556.763889 | 26.56 | 37.00 | 10.44 | 300.0 | V | 118.0 | -1.2 |
| 847.171111 | 29.00 | 37.00 | 8.00 | 300.0 | V | 77.0 | 1.3 |

BT+NB+Normal Operating+LED on

EUT Information

| | |
|---------------|------------------------------------|
| EUT Name: | Amazon Locker |
| Order Number: | 168324514 |
| Model: | ZL-ODIN-V1 |
| Test Mode: | BT+ NB IOT+Normal Operating+LED on |
| Test Voltage: | AC 230V/50Hz |
| Test By: | Charlie Zha |
| Review By: | Gary Chen |
| Remark: | 10m Chamber (FCC 15B) |

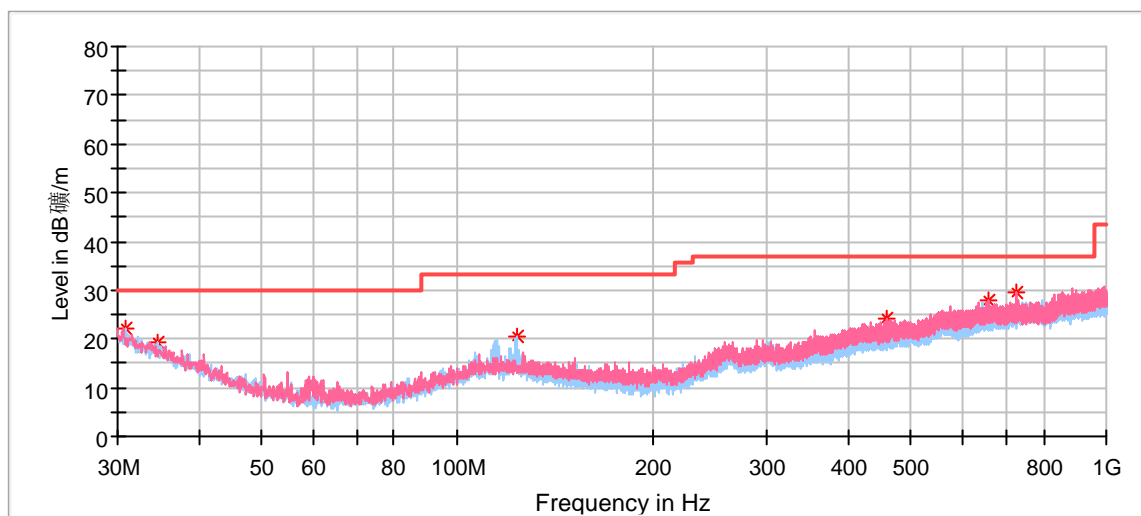


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 30.916111 | 22.34 | 30.00 | 7.66 | 200.0 | H | 137.0 | -10.2 |
| 34.580556 | 19.29 | 30.00 | 10.71 | 200.0 | H | 307.0 | -12.3 |
| 123.874444 | 20.42 | 33.50 | 13.08 | 300.0 | H | 169.0 | -15.6 |
| 460.356667 | 24.16 | 36.00 | 11.84 | 400.0 | V | 258.0 | -3.6 |
| 659.961111 | 27.96 | 36.00 | 8.04 | 300.0 | V | 358.0 | -0.4 |
| 728.669444 | 29.62 | 36.00 | 6.38 | 300.0 | V | 206.0 | -0.2 |

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+NB IOT+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: 10m Chamber (ICES-003)



Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 30.916111 | 22.34 | 30.00 | 7.66 | 200.0 | H | 137.0 | -10.2 |
| 34.580556 | 19.29 | 30.00 | 10.71 | 200.0 | H | 307.0 | -12.3 |
| 123.874444 | 20.42 | 33.10 | 12.68 | 300.0 | H | 169.0 | -15.6 |
| 460.356667 | 24.16 | 37.00 | 12.84 | 400.0 | V | 258.0 | -3.6 |
| 659.961111 | 27.96 | 37.00 | 9.04 | 300.0 | V | 358.0 | -0.4 |
| 728.669444 | 29.62 | 37.00 | 7.38 | 300.0 | V | 206.0 | -0.2 |

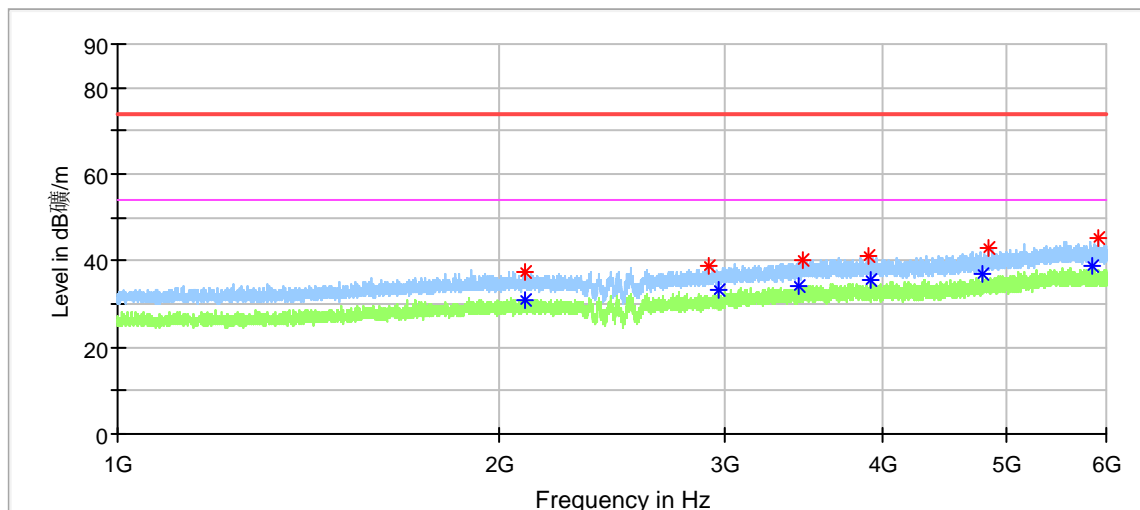
Appendix C.2: Test Plots of Radiated Emission, Above 1GHz

Note: Testing was carried out within frequency range 30MHz to the 5th harmonics. The measurement results above 6GHz were greater than 20dB below the limit, so only record the test result within the 30MHz to 6GHz.

BT+GPRS+Normal Operating+LED on

EUT Information

| | |
|---------------|--------------------------------------|
| EUT Name: | Amazon Locker |
| Order Number: | 168324514 |
| Model: | ZL-ODIN-V1 |
| Test Mode: | BT+GPRS link+Normal Operating+LED on |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Charlie Zha |
| Review By: | Gary Chen |
| Remark: | 10m Chamber |

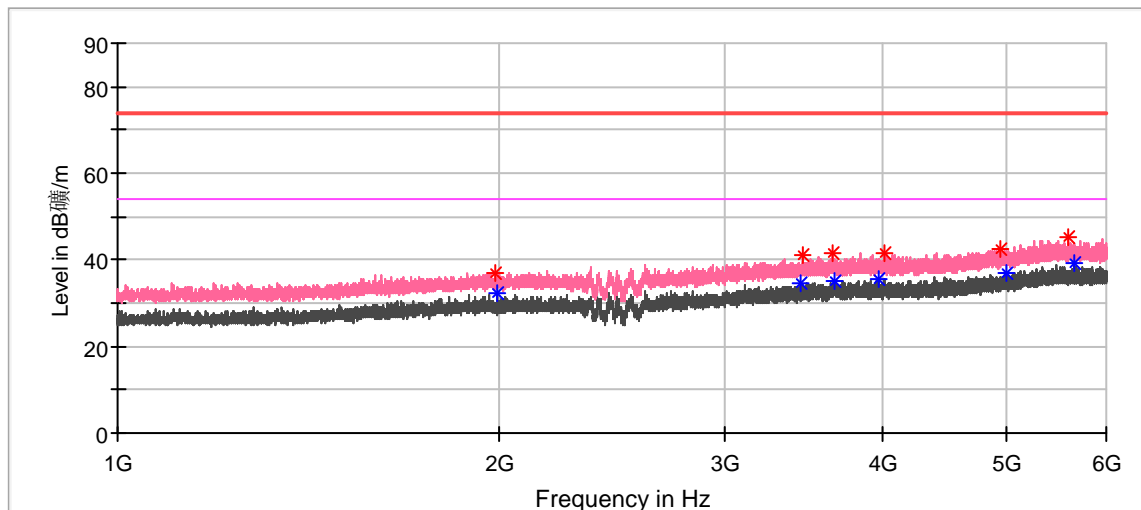


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2091.875000 | 37.58 | 74.00 | 36.42 | 100.0 | H | 331.0 | -3.1 |
| 2094.375000 | --- | 54.00 | 23.24 | 100.0 | H | 302.0 | -3.1 |
| 2924.166667 | 38.87 | 74.00 | 35.13 | 200.0 | H | 0.0 | -0.3 |
| 2975.000000 | --- | 54.00 | 20.77 | 200.0 | H | 104.0 | 0.0 |
| 3440.833333 | --- | 54.00 | 19.72 | 100.0 | H | 68.0 | 2.4 |
| 3455.208333 | 40.08 | 74.00 | 33.92 | 100.0 | H | 331.0 | 2.5 |
| 3897.500000 | 41.19 | 74.00 | 32.81 | 200.0 | H | 80.0 | 3.7 |
| 3907.916667 | --- | 54.00 | 18.37 | 100.0 | H | 352.0 | 3.7 |
| 4797.916667 | --- | 54.00 | 16.87 | 200.0 | H | 224.0 | 6.6 |
| 4849.166667 | 42.97 | 74.00 | 31.03 | 200.0 | H | 200.0 | 6.9 |
| 5850.208333 | --- | 54.00 | 15.21 | 100.0 | H | 352.0 | 10.1 |
| 5920.000000 | 45.18 | 74.00 | 28.82 | 200.0 | H | 236.0 | 10.2 |

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+GPRS link+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: 10m Chamber



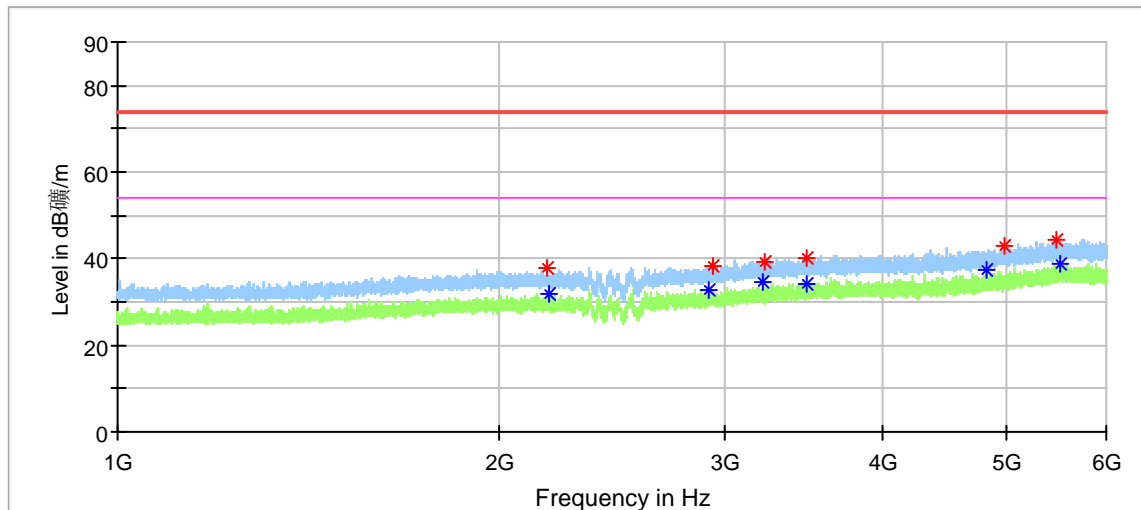
Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1981.666667 | 37.08 | 74.00 | 36.92 | 100.0 | V | 70.0 | -3.3 |
| 1986.875000 | --- | 54.00 | 21.90 | 100.0 | V | 288.0 | -3.2 |
| 3444.791667 | --- | 54.00 | 19.46 | 100.0 | V | 273.0 | 2.4 |
| 3464.166667 | 40.94 | 74.00 | 33.06 | 100.0 | V | 112.0 | 2.5 |
| 3657.500000 | 41.56 | 74.00 | 32.44 | 200.0 | V | 169.0 | 3.1 |
| 3669.375000 | --- | 54.00 | 18.75 | 200.0 | V | 0.0 | 3.1 |
| 3967.083333 | --- | 54.00 | 18.36 | 200.0 | V | 0.0 | 3.8 |
| 4009.791667 | 41.37 | 74.00 | 32.63 | 100.0 | V | 118.0 | 4.0 |
| 4956.458333 | 42.25 | 74.00 | 31.75 | 100.0 | V | 27.0 | 7.5 |
| 5010.625000 | --- | 54.00 | 17.16 | 100.0 | V | 97.0 | 7.7 |
| 5605.208333 | 45.27 | 74.00 | 28.74 | 100.0 | V | 236.0 | 10.0 |
| 5659.583333 | --- | 54.00 | 14.86 | 100.0 | V | 307.0 | 10.0 |

BT+EMTC+Normal Operating+LED on

EUT Information

| | |
|---------------|--------------------------------------|
| EUT Name: | Amazon Locker |
| Order Number: | 168324514 |
| Model: | ZL-ODIN-V1 |
| Test Mode: | BT+EMTC Link+LED on+Normal Operating |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Charlie Zha |
| Review By: | Gary Chen |
| Remark: | 10m Chamber |

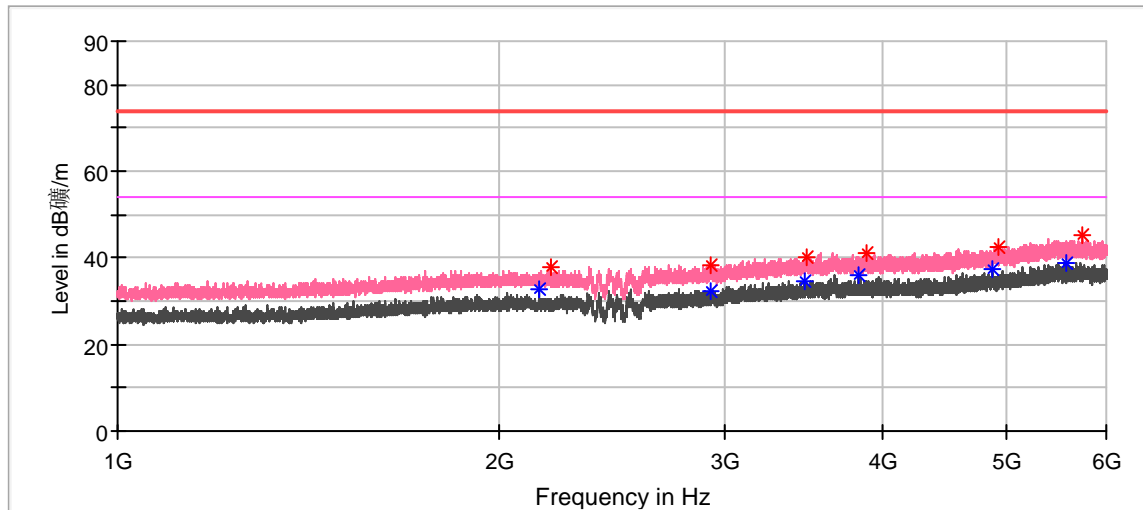


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2174.791667 | 37.98 | 74.00 | 36.02 | 200.0 | H | 23.0 | -3.1 |
| 2188.958333 | --- | 54.00 | 22.16 | 100.0 | H | 244.0 | -3.0 |
| 2924.791667 | --- | 54.00 | 21.35 | 100.0 | H | 278.0 | -0.3 |
| 2938.125000 | 38.14 | 74.00 | 35.86 | 200.0 | H | 0.0 | -0.2 |
| 3216.041667 | --- | 54.00 | 19.21 | 200.0 | H | 12.0 | 1.3 |
| 3229.583333 | 39.34 | 74.00 | 34.66 | 100.0 | H | 292.0 | 1.3 |
| 3486.041667 | --- | 54.00 | 19.83 | 200.0 | H | 149.0 | 2.6 |
| 3486.458333 | 40.19 | 74.00 | 33.81 | 100.0 | H | 285.0 | 2.6 |
| 4829.375000 | --- | 54.00 | 16.52 | 100.0 | H | 309.0 | 6.8 |
| 4980.416667 | 43.00 | 74.00 | 31.00 | 100.0 | H | 147.0 | 7.6 |
| 5479.791667 | 44.08 | 74.00 | 29.92 | 200.0 | H | 23.0 | 9.8 |
| 5513.333333 | --- | 54.00 | 15.06 | 100.0 | H | 303.0 | 9.9 |

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+EMTC Link+LED on+Normal Operating
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: 10m Chamber



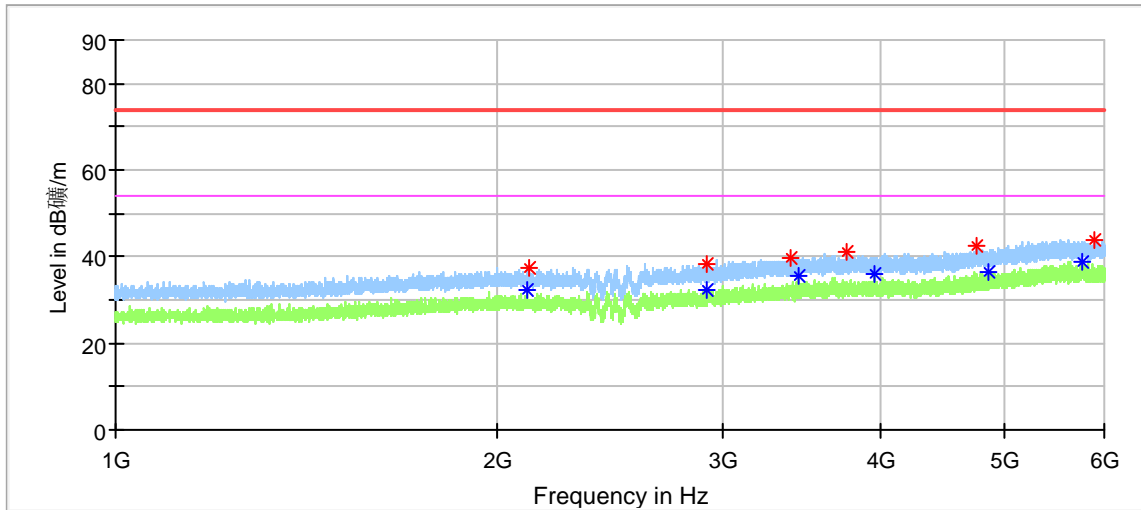
Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2145.833333 | --- | 54.00 | 21.43 | 100.0 | V | 318.0 | -3.1 |
| 2196.041667 | 38.06 | 74.00 | 35.94 | 100.0 | V | 157.0 | -3.0 |
| 2927.083333 | --- | 54.00 | 21.84 | 100.0 | V | 93.0 | -0.3 |
| 2927.291667 | 38.41 | 74.00 | 35.59 | 200.0 | V | 217.0 | -0.3 |
| 3469.375000 | --- | 54.00 | 19.43 | 200.0 | V | 189.0 | 2.5 |
| 3481.458333 | 40.05 | 74.00 | 33.95 | 100.0 | V | 308.0 | 2.6 |
| 3835.416667 | --- | 54.00 | 17.80 | 100.0 | V | 190.0 | 3.5 |
| 3888.333333 | 40.98 | 74.00 | 33.02 | 100.0 | V | 249.0 | 3.7 |
| 4883.541667 | --- | 54.00 | 16.66 | 200.0 | V | 131.0 | 7.1 |
| 4927.708333 | 42.50 | 74.00 | 31.50 | 100.0 | V | 56.0 | 7.3 |
| 5579.375000 | --- | 54.00 | 15.14 | 200.0 | V | 148.0 | 9.9 |
| 5736.250000 | 45.09 | 74.00 | 28.91 | 100.0 | V | 0.0 | 10.0 |

BT+NB+Normal Operating+LED on

EUT Information

| | |
|---------------|------------------------------------|
| EUT Name: | Amazon Locker |
| Order Number: | 168324514 |
| Model: | ZL-ODIN-V1 |
| Test Mode: | BT+ NB IOT+Normal Operating+LED on |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Charlie Zha |
| Review By: | Gary Chen |
| Remark: | 10m Chamber |

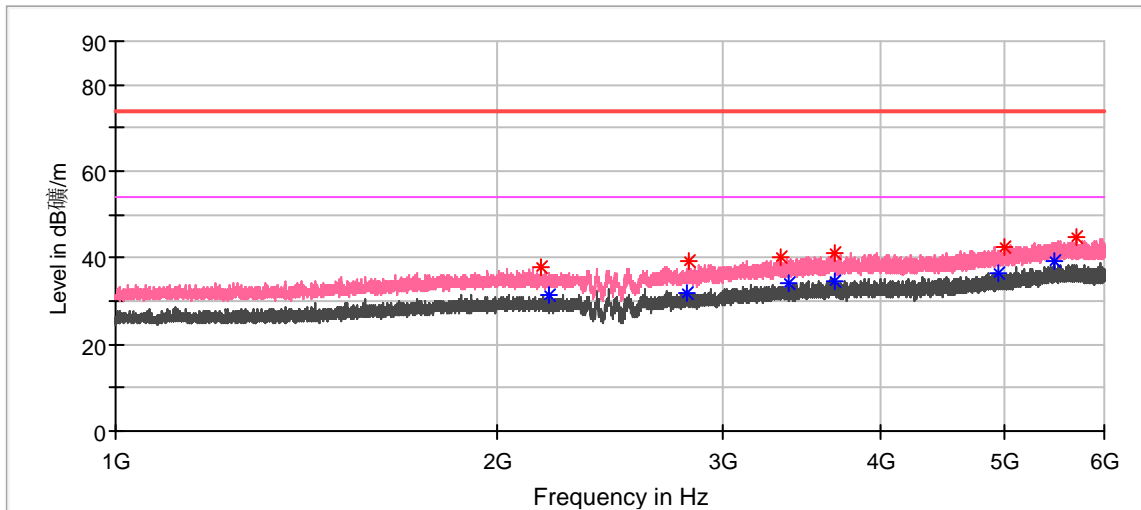


Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2105.416667 | --- | 54.00 | 21.60 | 200.0 | H | 235.0 | -3.1 |
| 2111.666667 | 37.37 | 74.00 | 36.63 | 100.0 | H | 234.0 | -3.1 |
| 2921.458333 | --- | 54.00 | 21.59 | 200.0 | H | 291.0 | -0.3 |
| 2923.541667 | 38.50 | 74.00 | 35.50 | 200.0 | H | 113.0 | -0.3 |
| 3397.708333 | 39.72 | 74.00 | 34.28 | 200.0 | H | 165.0 | 2.1 |
| 3450.000000 | --- | 54.00 | 18.39 | 200.0 | H | 96.0 | 2.4 |
| 3761.458333 | 40.85 | 74.00 | 33.15 | 100.0 | H | 228.0 | 3.4 |
| 3956.250000 | --- | 54.00 | 18.10 | 100.0 | H | 211.0 | 3.8 |
| 4766.875000 | 42.66 | 74.00 | 31.34 | 100.0 | H | 257.0 | 6.5 |
| 4871.458333 | --- | 54.00 | 17.53 | 200.0 | H | 85.0 | 7.0 |
| 5758.333333 | --- | 54.00 | 15.12 | 200.0 | H | 68.0 | 10.1 |
| 5902.500000 | 44.00 | 74.00 | 30.00 | 200.0 | H | 328.0 | 10.1 |

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+ NB IOT+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: 10m Chamber



Critical Freqs

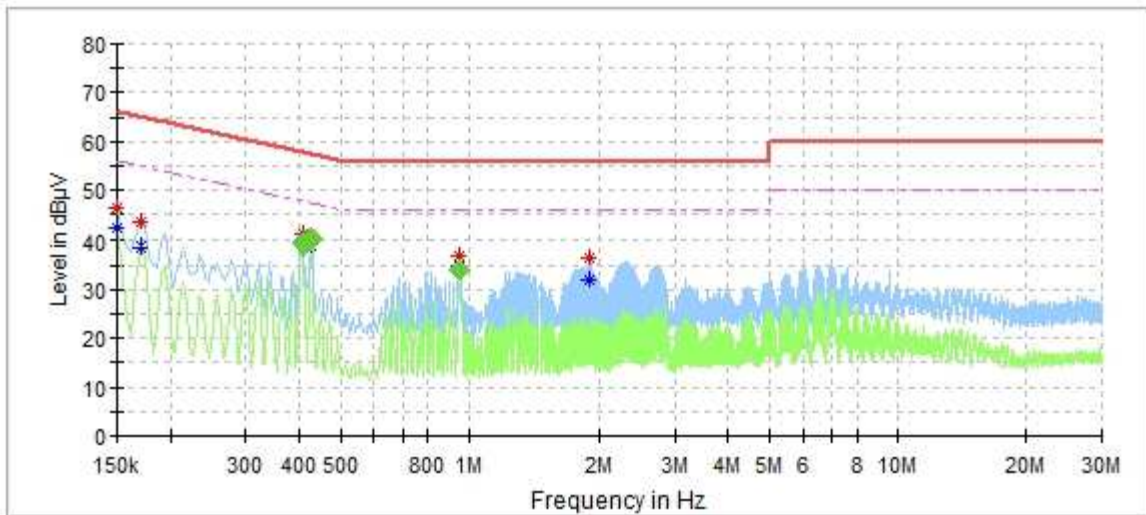
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2158.541667 | 37.72 | 74.00 | 36.28 | 200.0 | V | 176.0 | -3.1 |
| 2192.500000 | --- | 54.00 | 22.45 | 100.0 | V | 250.0 | -3.0 |
| 2818.333333 | --- | 54.00 | 21.95 | 100.0 | V | 313.0 | -0.9 |
| 2824.583333 | 39.22 | 74.00 | 34.78 | 100.0 | V | 105.0 | -0.9 |
| 3332.500000 | 40.07 | 74.00 | 33.93 | 100.0 | V | 273.0 | 1.9 |
| 3383.125000 | --- | 54.00 | 19.83 | 100.0 | V | 45.0 | 2.1 |
| 3675.000000 | 40.93 | 74.00 | 33.07 | 200.0 | V | 69.0 | 3.1 |
| 3678.750000 | --- | 54.00 | 19.28 | 200.0 | V | 310.0 | 3.1 |
| 4956.250000 | --- | 54.00 | 17.32 | 100.0 | V | 93.0 | 7.5 |
| 5003.541667 | 42.63 | 74.00 | 31.37 | 200.0 | V | 315.0 | 7.7 |
| 5485.416667 | --- | 54.00 | 14.96 | 100.0 | V | 17.0 | 9.8 |
| 5696.666667 | 44.74 | 74.00 | 29.26 | 100.0 | V | 0.0 | 10.0 |

Appendix C.3: Test Plots of Conducted Emissions on AC Mains

BT+GPRS+Normal Operating+LED on

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+GPRS link+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: SR1



Critical_Freqs

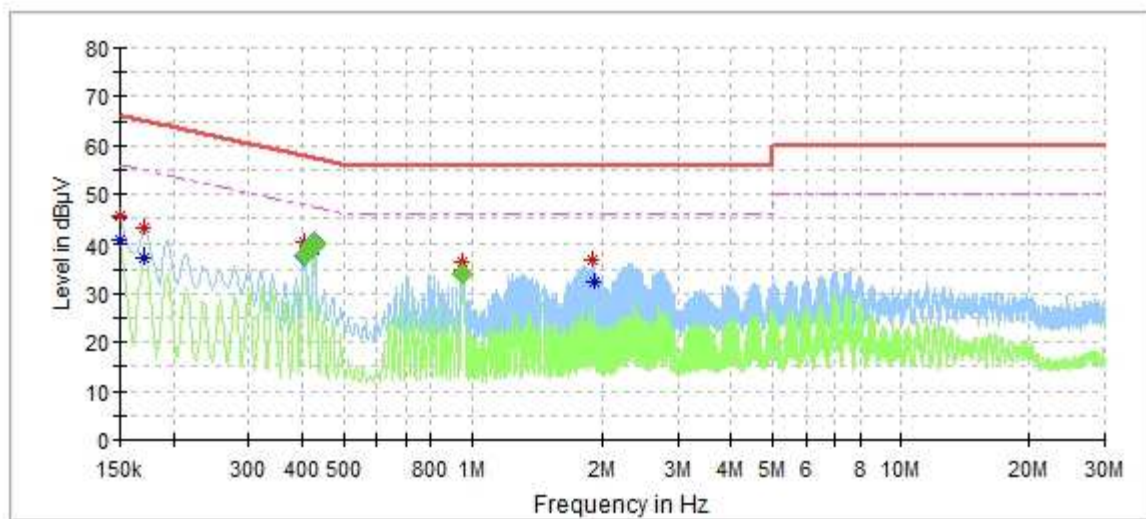
| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.150000 | --- | 42.35 | 56.00 | 13.65 | L1 | 9.6 |
| 0.150000 | 46.33 | --- | 66.00 | 19.67 | L1 | 9.6 |
| 0.170000 | --- | 38.72 | 54.96 | 16.24 | L1 | 9.6 |
| 0.170000 | 43.61 | --- | 64.96 | 21.35 | L1 | 9.6 |
| 0.408500 | --- | 39.22 | 47.73 | 8.51 | L1 | 9.7 |
| 0.408500 | 41.12 | --- | 57.73 | 16.61 | L1 | 9.7 |
| 0.428500 | 40.54 | --- | 57.33 | 16.79 | L1 | 9.7 |
| 0.428500 | --- | 39.07 | 47.25 | 8.18 | L1 | 9.7 |
| 0.954500 | 37.08 | --- | 56.00 | 18.92 | L1 | 9.7 |
| 0.954500 | --- | 34.85 | 46.00 | 11.15 | L1 | 9.7 |
| 1.904000 | 36.38 | --- | 56.00 | 19.62 | L1 | 9.7 |
| 1.904000 | --- | 31.96 | 46.00 | 14.04 | L1 | 9.7 |

Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.408500 | --- | 38.88 | 47.68 | 8.80 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.408500 | 39.25 | --- | 57.68 | 18.42 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.428500 | --- | 40.02 | 47.28 | 7.26 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.428500 | 40.31 | --- | 57.28 | 16.98 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.954500 | --- | 34.14 | 46.00 | 11.86 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.954500 | 34.11 | --- | 56.00 | 21.89 | 1000.0 | 9.000 | L1 | 9.7 |

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+GPRS link+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: SR1



Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.150000 | --- | 40.59 | 56.00 | 15.41 | N | 9.6 |
| 0.150000 | 45.60 | --- | 66.00 | 20.40 | N | 9.6 |
| 0.170000 | --- | 37.30 | 54.96 | 17.66 | N | 9.6 |
| 0.170000 | 43.12 | --- | 64.96 | 21.84 | N | 9.6 |
| 0.404500 | 40.11 | --- | 57.73 | 17.62 | N | 9.7 |
| 0.408500 | --- | 38.39 | 47.73 | 9.34 | N | 9.7 |
| 0.428500 | 40.75 | --- | 57.25 | 16.50 | N | 9.7 |
| 0.428500 | --- | 39.11 | 47.25 | 8.14 | N | 9.7 |
| 0.954500 | 36.43 | --- | 56.00 | 19.57 | N | 9.7 |
| 0.954500 | --- | 34.82 | 46.00 | 11.18 | N | 9.7 |
| 1.904000 | 36.86 | --- | 56.00 | 19.14 | N | 9.7 |
| 1.908000 | --- | 32.44 | 46.00 | 13.56 | N | 9.7 |

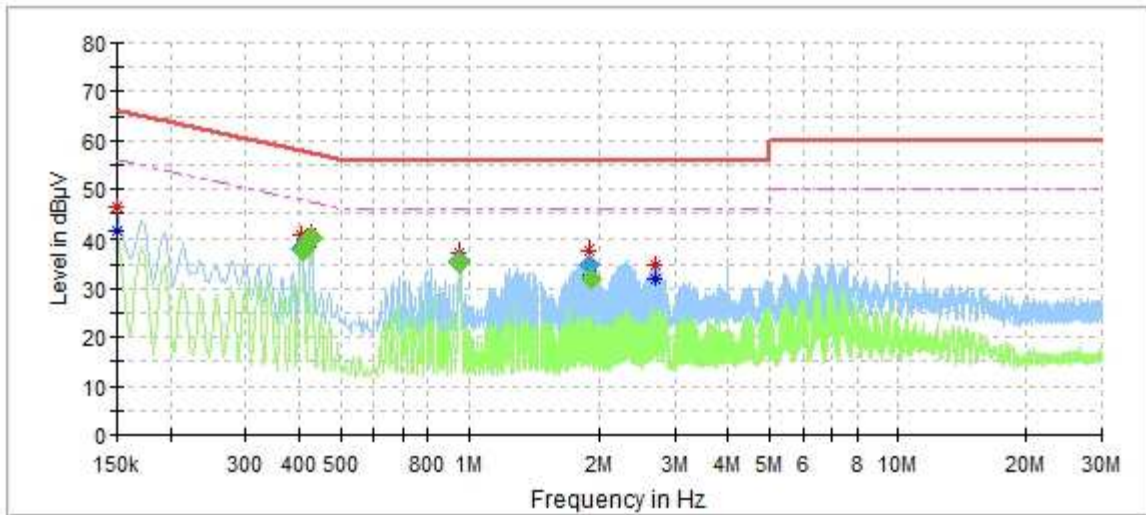
Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.404500 | 37.55 | --- | 57.76 | 20.21 | 1000.0 | 9.000 | N | 9.7 |
| 0.408500 | --- | 38.04 | 47.68 | 9.63 | 1000.0 | 9.000 | N | 9.7 |
| 0.428500 | --- | 39.97 | 47.28 | 7.31 | 1000.0 | 9.000 | N | 9.7 |
| 0.428500 | 40.13 | --- | 57.28 | 17.15 | 1000.0 | 9.000 | N | 9.7 |
| 0.954500 | --- | 34.15 | 46.00 | 11.85 | 1000.0 | 9.000 | N | 9.7 |
| 0.954500 | 34.12 | --- | 56.00 | 21.88 | 1000.0 | 9.000 | N | 9.7 |

BT+EMTC+Normal Operating+LED on

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+EMTC link+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: SR1



Critical_Freqs

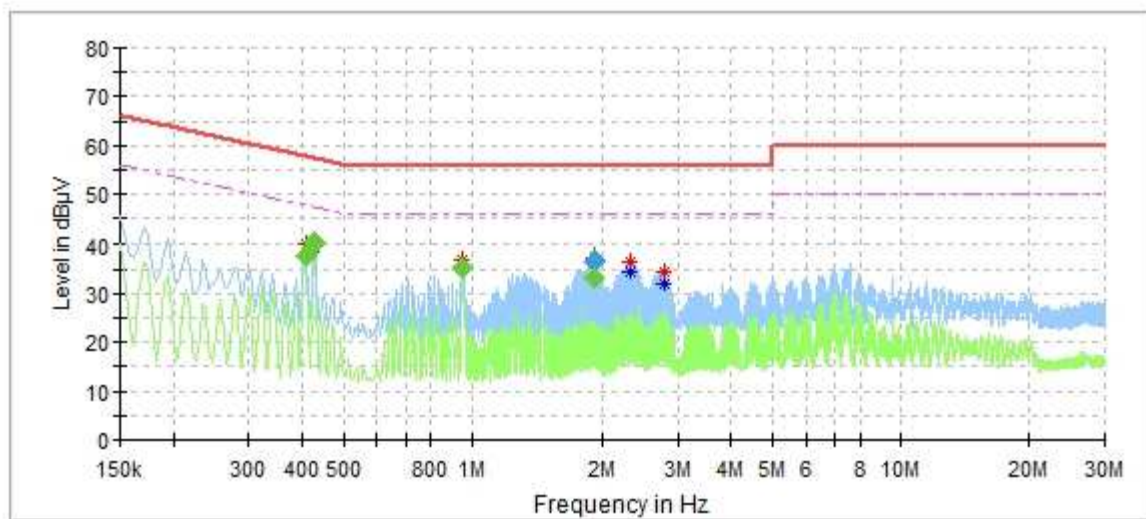
| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.150000 | --- | 41.64 | 56.00 | 14.36 | L1 | 9.6 |
| 0.150000 | 46.23 | --- | 66.00 | 19.77 | L1 | 9.6 |
| 0.404500 | 40.57 | --- | 57.73 | 17.16 | L1 | 9.7 |
| 0.408500 | --- | 38.63 | 47.73 | 9.10 | L1 | 9.7 |
| 0.428500 | 40.96 | --- | 57.33 | 16.37 | L1 | 9.7 |
| 0.428500 | --- | 39.34 | 47.33 | 7.99 | L1 | 9.7 |
| 0.954500 | --- | 35.99 | 46.00 | 10.01 | L1 | 9.7 |
| 0.954500 | 37.35 | --- | 56.00 | 18.65 | L1 | 9.7 |
| 1.902500 | 37.90 | --- | 56.00 | 18.10 | L1 | 9.7 |
| 1.906500 | --- | 32.95 | 46.00 | 13.05 | L1 | 9.7 |
| 2.716000 | --- | 32.14 | 46.00 | 13.86 | L1 | 9.8 |
| 2.716000 | 34.95 | --- | 56.00 | 21.05 | L1 | 9.8 |

Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.404500 | 38.07 | --- | 57.76 | 19.69 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.408500 | --- | 37.86 | 47.68 | 9.82 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.428500 | --- | 40.09 | 47.28 | 7.19 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.428500 | 40.38 | --- | 57.28 | 16.90 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.954500 | 35.69 | --- | 56.00 | 20.31 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.954500 | --- | 35.45 | 46.00 | 10.55 | 1000.0 | 9.000 | L1 | 9.7 |
| 1.902500 | 34.77 | --- | 56.00 | 21.23 | 1000.0 | 9.000 | L1 | 9.7 |
| 1.906500 | --- | 31.84 | 46.00 | 14.16 | 1000.0 | 9.000 | L1 | 9.7 |

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+EMTC link+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: SR1



Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.408500 | --- | 37.69 | 47.73 | 10.04 | N | 9.7 |
| 0.408500 | 39.81 | --- | 57.73 | 17.92 | N | 9.7 |
| 0.428500 | --- | 39.28 | 47.25 | 7.97 | N | 9.7 |
| 0.428500 | 40.45 | --- | 57.25 | 16.80 | N | 9.7 |
| 0.954500 | --- | 35.77 | 46.00 | 10.23 | N | 9.7 |
| 0.954500 | 36.94 | --- | 56.00 | 19.06 | N | 9.7 |
| 1.906500 | --- | 33.14 | 46.00 | 12.86 | N | 9.7 |
| 1.906500 | 37.20 | --- | 56.00 | 18.80 | N | 9.7 |
| 2.336000 | --- | 34.36 | 46.00 | 11.64 | N | 9.7 |
| 2.336000 | 36.32 | --- | 56.00 | 19.68 | N | 9.7 |
| 2.784000 | 34.58 | --- | 56.00 | 21.42 | N | 9.8 |
| 2.784000 | --- | 31.84 | 46.00 | 14.16 | N | 9.8 |

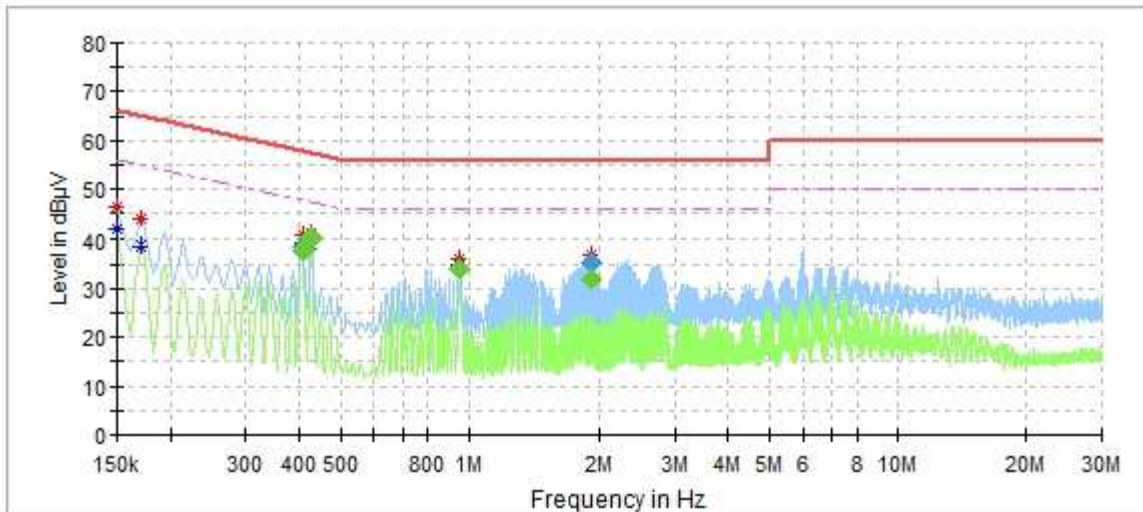
Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.408500 | --- | 37.58 | 47.68 | 10.10 | 1000.0 | 9.000 | N | 9.7 |
| 0.408500 | 37.69 | --- | 57.68 | 19.98 | 1000.0 | 9.000 | N | 9.7 |
| 0.428500 | --- | 40.03 | 47.28 | 7.25 | 1000.0 | 9.000 | N | 9.7 |
| 0.428500 | 40.10 | --- | 57.28 | 17.18 | 1000.0 | 9.000 | N | 9.7 |
| 0.954500 | 35.28 | --- | 56.00 | 20.72 | 1000.0 | 9.000 | N | 9.7 |
| 0.954500 | --- | 35.39 | 46.00 | 10.61 | 1000.0 | 9.000 | N | 9.7 |
| 1.906500 | --- | 33.25 | 46.00 | 12.75 | 1000.0 | 9.000 | N | 9.7 |
| 1.906500 | 36.56 | --- | 56.00 | 19.44 | 1000.0 | 9.000 | N | 9.7 |

BT+NB+Normal Operating+LED on

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+ NB IOT+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: SR1



Critical_Freqs

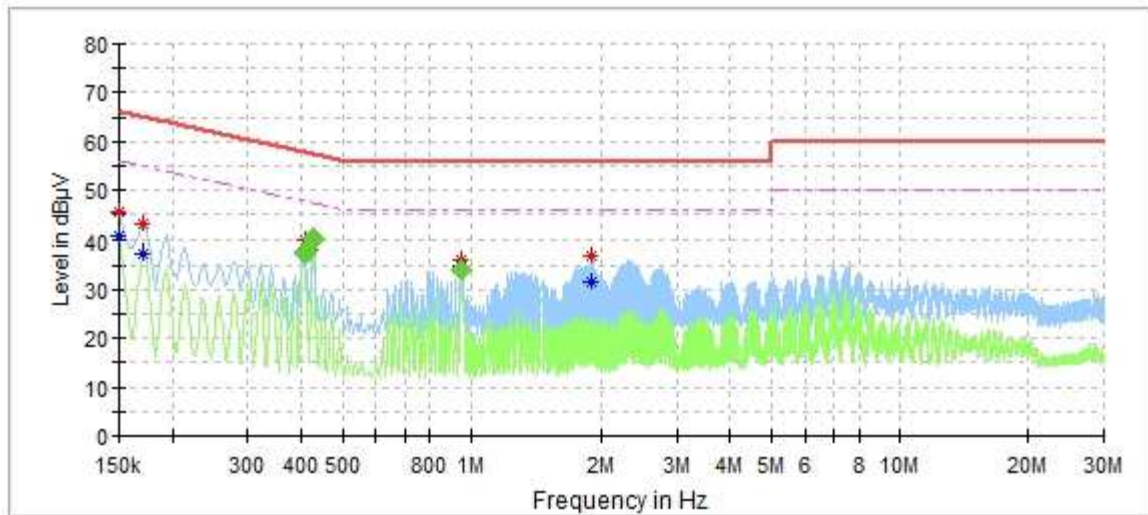
| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.150000 | --- | 42.02 | 56.00 | 13.98 | L1 | 9.6 |
| 0.150000 | 46.29 | --- | 66.00 | 19.71 | L1 | 9.6 |
| 0.170000 | --- | 38.67 | 54.96 | 16.29 | L1 | 9.6 |
| 0.170000 | 43.72 | --- | 64.96 | 21.24 | L1 | 9.6 |
| 0.408500 | 40.61 | --- | 57.73 | 17.12 | L1 | 9.7 |
| 0.408500 | --- | 38.86 | 47.73 | 8.87 | L1 | 9.7 |
| 0.428500 | --- | 39.01 | 47.25 | 8.24 | L1 | 9.7 |
| 0.428500 | 40.89 | --- | 57.33 | 16.44 | L1 | 9.7 |
| 0.954500 | 36.20 | --- | 56.00 | 19.80 | L1 | 9.7 |
| 0.954500 | --- | 34.84 | 46.00 | 11.16 | L1 | 9.7 |
| 1.906500 | --- | 32.56 | 46.00 | 13.44 | L1 | 9.7 |
| 1.906500 | 36.75 | --- | 56.00 | 19.25 | L1 | 9.7 |

Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.408500 | --- | 37.70 | 47.68 | 9.98 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.408500 | 38.75 | --- | 57.68 | 18.92 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.428500 | --- | 40.16 | 47.28 | 7.13 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.428500 | 40.38 | --- | 57.28 | 16.90 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.954500 | 34.15 | --- | 56.00 | 21.85 | 1000.0 | 9.000 | L1 | 9.7 |
| 0.954500 | --- | 34.19 | 46.00 | 11.81 | 1000.0 | 9.000 | L1 | 9.7 |
| 1.906500 | --- | 31.98 | 46.00 | 14.02 | 1000.0 | 9.000 | L1 | 9.7 |
| 1.906500 | 35.27 | --- | 56.00 | 20.73 | 1000.0 | 9.000 | L1 | 9.7 |

EUT Information

EUT Name: Amazon Locker
 Order Number: 168324514
 Model: ZL-ODIN-V1
 Test Mode: BT+ NB IOT+Normal Operating+LED on
 Test Voltage: AC 120V/60Hz
 Test By: Charlie Zha
 Review By: Gary Chen
 Remark: SR1



Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.150000 | --- | 40.43 | 56.00 | 15.57 | N | 9.6 |
| 0.150000 | 45.67 | --- | 66.00 | 20.33 | N | 9.6 |
| 0.170000 | --- | 37.29 | 54.96 | 17.67 | N | 9.6 |
| 0.170000 | 43.27 | --- | 64.96 | 21.69 | N | 9.6 |
| 0.408500 | 39.94 | --- | 57.73 | 17.79 | N | 9.7 |
| 0.408500 | --- | 38.28 | 47.73 | 9.45 | N | 9.7 |
| 0.428500 | 40.43 | --- | 57.25 | 16.82 | N | 9.7 |
| 0.428500 | --- | 39.04 | 47.25 | 8.21 | N | 9.7 |
| 0.954500 | 36.12 | --- | 56.00 | 19.88 | N | 9.7 |
| 0.954500 | --- | 34.77 | 46.00 | 11.23 | N | 9.7 |
| 1.904000 | --- | 31.76 | 46.00 | 14.24 | N | 9.7 |
| 1.904000 | 36.73 | --- | 56.00 | 19.27 | N | 9.7 |

Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.408500 | --- | 37.45 | 47.68 | 10.23 | 1000.0 | 9.000 | N | 9.7 |
| 0.408500 | 37.81 | --- | 57.68 | 19.87 | 1000.0 | 9.000 | N | 9.7 |
| 0.428500 | --- | 40.03 | 47.28 | 7.25 | 1000.0 | 9.000 | N | 9.7 |
| 0.428500 | 40.21 | --- | 57.28 | 17.07 | 1000.0 | 9.000 | N | 9.7 |
| 0.954500 | --- | 34.12 | 46.00 | 11.88 | 1000.0 | 9.000 | N | 9.7 |
| 0.954500 | 34.08 | --- | 56.00 | 21.92 | 1000.0 | 9.000 | N | 9.7 |