

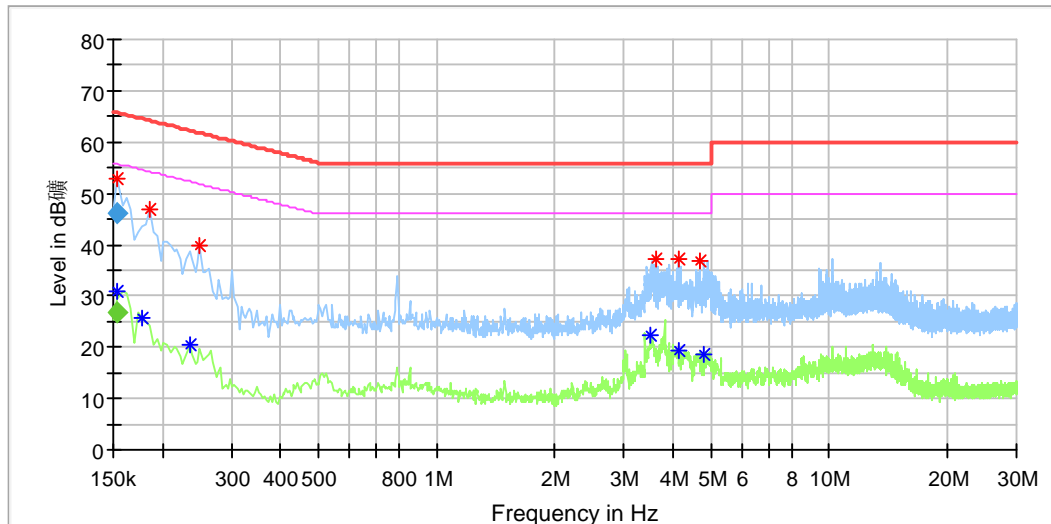
## **Appendix B: Test Results of FCC 15B**

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## Appendix B.1: Test Plots of Conducted Emission on AC Mains

### EUT Information

|               |                                       |
|---------------|---------------------------------------|
| EUT Name:     | Lenovo USB-A Unified Pairing Receiver |
| Order Number: | 168321870                             |
| Model:        | RG95                                  |
| Test Mode:    | On (2.4GHz)                           |
| Test Voltage: | 120Vac, 60Hz                          |
| Test By:      | Jianhua Lu                            |
| Review By:    | Gary Chen                             |
| Remark:       | SR1                                   |



### Critical Freqs

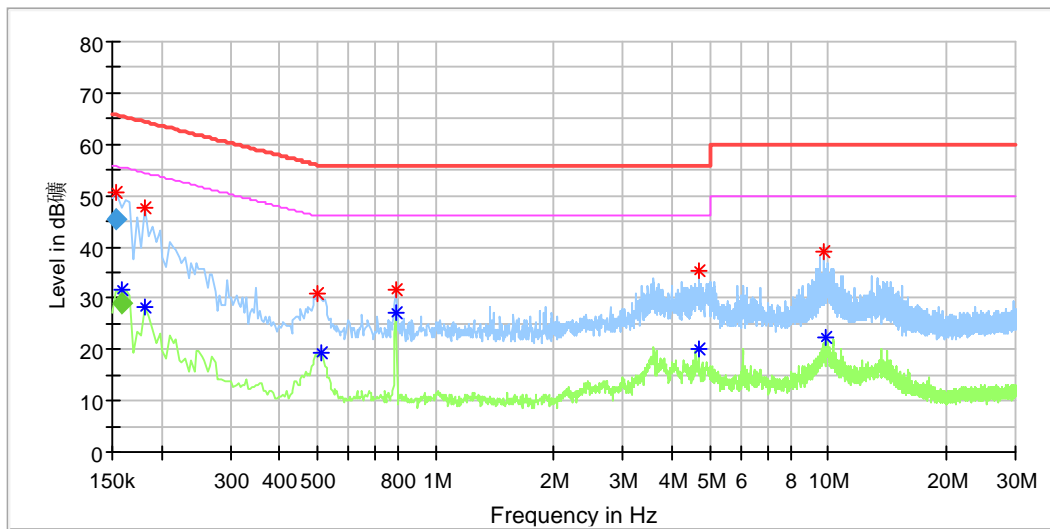
| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.153500        | ---            | 30.77          | 55.57        | 24.80       | L1   | 9.9        |
| 0.154000        | 52.96          | ---            | 65.78        | 12.82       | L1   | 9.9        |
| 0.178000        | ---            | 25.72          | 54.58        | 28.86       | L1   | 9.9        |
| 0.186000        | 46.95          | ---            | 64.21        | 17.26       | L1   | 9.9        |
| 0.234000        | ---            | 20.52          | 52.31        | 31.78       | L1   | 9.9        |
| 0.250000        | 39.69          | ---            | 61.76        | 22.07       | L1   | 9.9        |
| 3.518000        | ---            | 22.21          | 46.00        | 23.79       | L1   | 10.2       |
| 3.622000        | 37.21          | ---            | 56.00        | 18.79       | L1   | 10.2       |
| 4.122000        | ---            | 19.38          | 46.00        | 26.62       | L1   | 10.2       |
| 4.122000        | 37.12          | ---            | 56.00        | 18.88       | L1   | 10.2       |
| 4.698000        | 36.92          | ---            | 56.00        | 19.08       | L1   | 10.2       |
| 4.778000        | ---            | 18.60          | 46.00        | 27.40       | L1   | 10.2       |

### Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.153500        | ---              | 26.86          | 55.81        | 28.95       | 200.0           | 9.000           | L1   | 9.9        |
| 0.154000        | 46.29            | ---            | 65.78        | 19.49       | 200.0           | 9.000           | L1   | 9.9        |

## EUT Information

|               |                                       |
|---------------|---------------------------------------|
| EUT Name:     | Lenovo USB-A Unified Pairing Receiver |
| Order Number: | 168321870                             |
| Model:        | RG95                                  |
| Test Mode:    | On (2.4GHz)                           |
| Test Voltage: | 120Vac, 60Hz                          |
| Test By:      | Jianhua Lu                            |
| Review By:    | Gary Chen                             |
| Remark:       | SR1                                   |



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.154000        | 50.55          | ---            | 65.78        | 15.23       | N    | 9.8        |
| 0.158000        | ---            | 31.77          | 55.78        | 24.01       | N    | 9.8        |
| 0.182000        | ---            | 28.37          | 54.39        | 26.02       | N    | 9.8        |
| 0.182000        | 47.74          | ---            | 64.39        | 16.65       | N    | 9.8        |
| 0.502000        | 30.86          | ---            | 56.00        | 25.14       | N    | 9.8        |
| 0.510000        | ---            | 19.34          | 46.00        | 26.66       | N    | 9.8        |
| 0.790000        | ---            | 27.35          | 46.00        | 18.65       | N    | 9.8        |
| 0.790000        | 31.69          | ---            | 56.00        | 24.31       | N    | 9.8        |
| 4.670000        | ---            | 20.22          | 46.00        | 25.78       | N    | 9.9        |
| 4.670000        | 35.42          | ---            | 56.00        | 20.58       | N    | 9.9        |
| 9.770000        | 39.14          | ---            | 60.00        | 20.86       | N    | 10.0       |
| 9.894000        | ---            | 22.21          | 50.00        | 27.79       | N    | 10.0       |

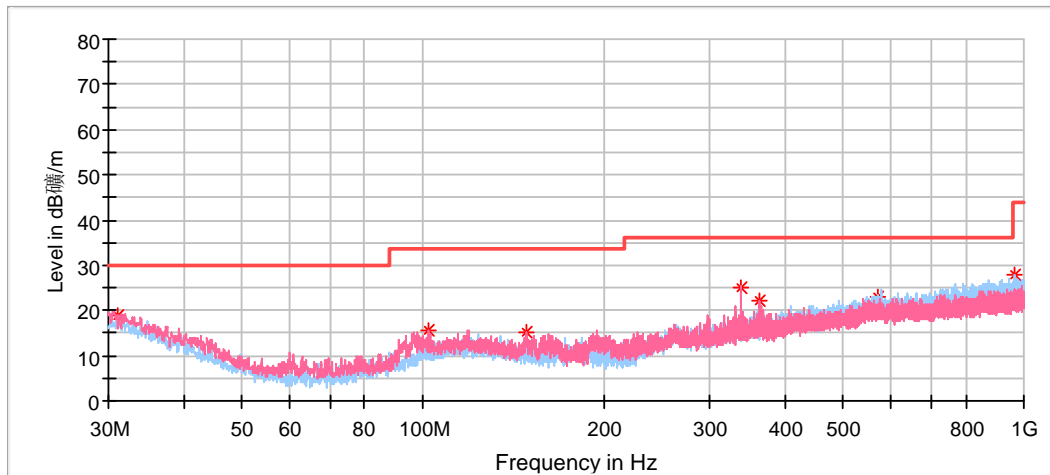
## Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.154000        | 45.47            | ---            | 65.78        | 20.31       | 200.0           | 9.000           | N    | 9.8        |
| 0.158000        | ---              | 29.07          | 55.57        | 26.50       | 200.0           | 9.000           | N    | 9.8        |

## Appendix B.2: Test Plots of Radiated Emission, Below 1GHz

### EUT Information

|               |                                       |
|---------------|---------------------------------------|
| EUT Name:     | Lenovo USB-A Unified Pairing Receiver |
| Order Number: | 168321870                             |
| Model:        | RG95                                  |
| Test Mode:    | On (2.4GHz)                           |
| Test Voltage: | 120Vac, 60Hz                          |
| Test By:      | Jianhua Lu                            |
| Review By:    | Gary Chen                             |
| Remark:       | 10m Chamber                           |



### Critical Freqs

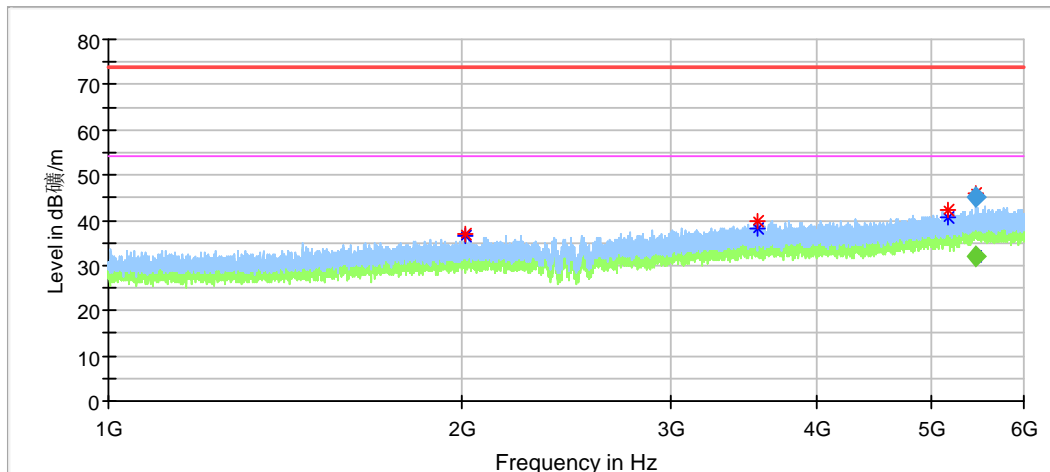
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 31.185556       | 18.93            | 30.00          | 11.07       | 200.0       | V   | 134.0         | -5.5         |
| 102.049444      | 15.57            | 33.50          | 17.93       | 200.0       | V   | 19.0          | -12.6        |
| 149.040556      | 15.36            | 33.50          | 18.14       | 200.0       | V   | 237.0         | -13.1        |
| 337.543889      | 25.08            | 36.00          | 10.92       | 200.0       | V   | 264.0         | -9.4         |
| 364.272778      | 22.22            | 36.00          | 13.78       | 100.0       | V   | 0.0           | -8.5         |
| 572.014444      | 23.18            | 36.00          | 12.82       | 200.0       | H   | 336.0         | -8.2         |
| 964.648889      | 27.90            | 44.00          | 16.10       | 100.0       | H   | 188.0         | -4.1         |

### Appendix B.3: Test Plots of Radiated Emission, Above 1GHz

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

#### EUT Information

|               |                                       |
|---------------|---------------------------------------|
| EUT Name:     | Lenovo USB-A Unified Pairing Receiver |
| Order Number: | 168321870                             |
| Model:        | RG95                                  |
| Test Mode:    | On (2.4GHz)                           |
| Test Voltage: | 120Vac, 60Hz                          |
| Test By:      | Jianhua Lu                            |
| Review By:    | Gary Chen                             |
| Remark:       | 10m Chamber                           |



#### Critical\_Freqs

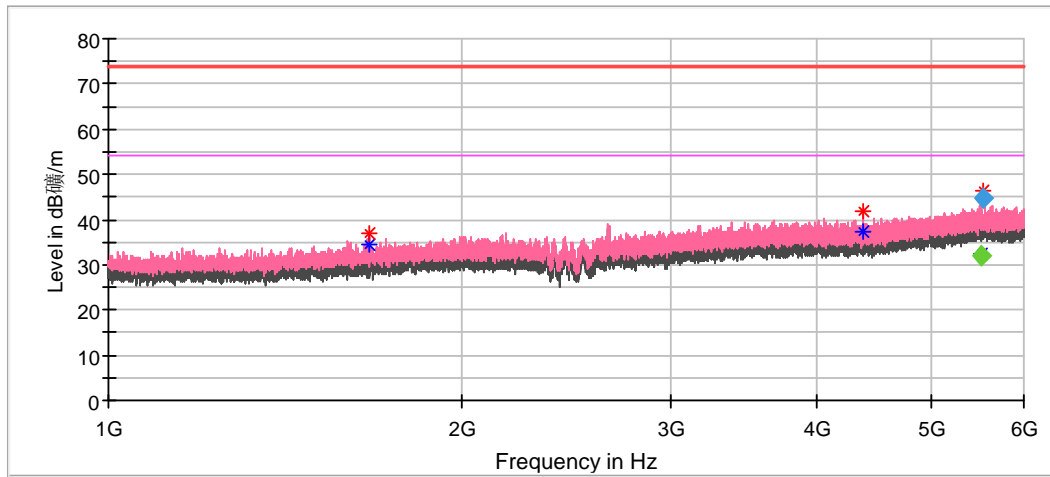
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|
| 2012.291667     | ---              | 36.35            | 54.00          | 17.65       | 100.0       | H   | 0.0           |
| 2012.291667     | 36.86            | ---              | 74.00          | 37.14       | 100.0       | H   | 0.0           |
| 3568.541667     | ---              | 38.19            | 54.00          | 15.81       | 100.0       | H   | 132.0         |
| 3568.541667     | 39.91            | ---              | 74.00          | 34.09       | 100.0       | H   | 132.0         |
| 5179.166667     | ---              | 40.54            | 54.00          | 13.46       | 100.0       | H   | 9.0           |
| 5179.166667     | 42.08            | ---              | 74.00          | 31.92       | 100.0       | H   | 9.0           |
| 5454.500000     | 46.11            | ---              | 74.00          | 30.85       | 100.0       | H   | 183.0         |
| 5468.500000     | ---              | 32.06            | 54.00          | 21.94       | 100.0       | H   | 0.0           |

#### Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 5454.500000     | 45.10            | ---               | 74.00          | 28.90       | 1000.0          | 1000.000        | 100.0       | H   | 183.0         |
| 5468.500000     | ---              | 32.03             | 54.00          | 21.97       | 1000.0          | 1000.000        | 100.0       | H   | 0.0           |

### EUT Information

EUT Name: Lenovo USB-A Unified Pairing Receiver  
 Order Number: 168321870  
 Model: RG95  
 Test Mode: On (2.4GHz)  
 Test Voltage: 120Vac, 60Hz  
 Test By: Jianhua Lu  
 Review By: Gary Chen  
 Remark: 10m Chamber



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|------------------|----------------|--------|-------------|-----|---------------|
| 1663.125000     | 36.98            | ---              | 74.00          | 37.02  | 100.0       | V   | 0.0           |
| 1663.333333     | ---              | 34.53            | 54.00          | 19.47  | 100.0       | V   | 0.0           |
| 4381.250000     | ---              | 37.32            | 54.00          | 16.68  | 100.0       | V   | 332.0         |
| 4381.250000     | 41.90            | ---              | 74.00          | 32.10  | 100.0       | V   | 332.0         |
| 5528.375000     | ---              | 32.22            | 54.00          | 11.93  | 100.0       | V   | 340.0         |
| 5533.575000     | 46.55            | ---              | 74.00          | 31.06  | 100.0       | V   | 258.0         |

### Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 5528.375000     | ---              | 32.19             | 54.00          | 21.81       | 1000.0          | 1000.000        | 100.0       | V   | 340.0         |
| 5533.575000     | 44.81            | ---               | 74.00          | 29.19       | 1000.0          | 1000.000        | 100.0       | V   | 258.0         |