

**Produkte**  
 Products



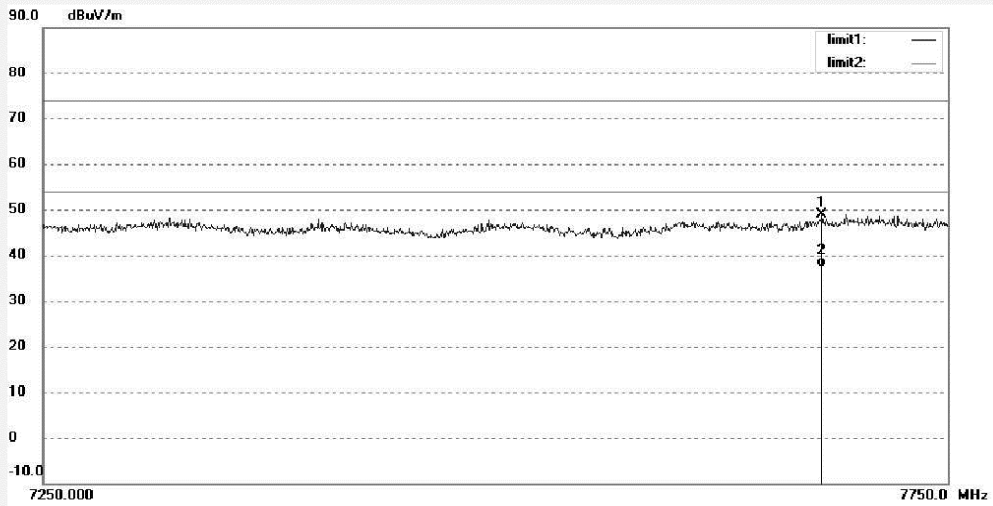
**ACCURATE TECHNOLOGY CO., LTD.**

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Site: 2# Chamber  
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #563                      | Polarization: Vertical     |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5825MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11a



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 7678.500    | 43.67            | 5.16        | 48.83           | 74.00          | -25.17      | peak     |             |               |        |
| 2   | 7678.500    | 32.24            | 5.16        | 37.40           | 54.00          | -16.60      | AVG      |             |               |        |

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802.11n HT20  
 CH149



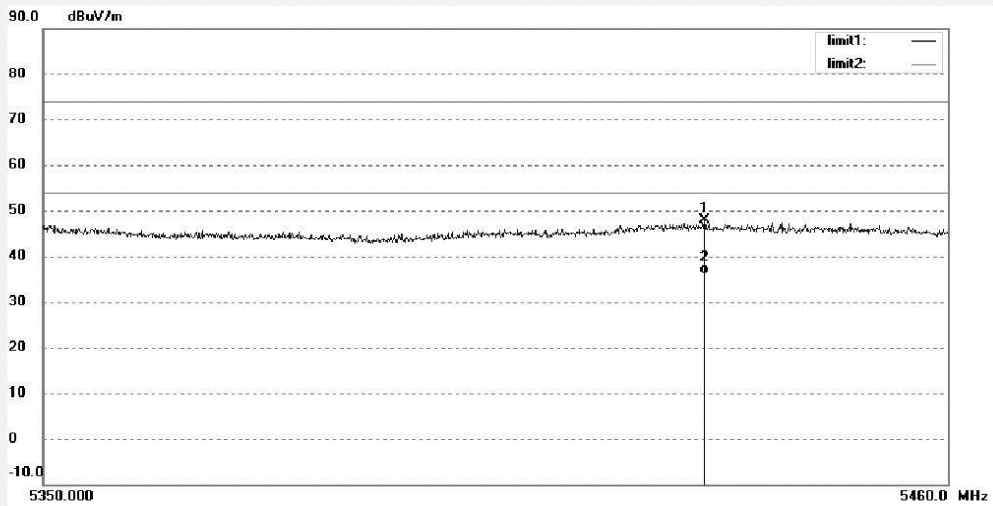
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #564                      | Polarization: Vertical     |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5745MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11n HT20



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 5430.300    | 46.99            | 0.82        | 47.81           | 74.00          | -26.19      | peak     |             |               |        |
| 2   | 5430.300    | 35.28            | 0.82        | 36.10           | 54.00          | -17.90      | AVG      |             |               |        |

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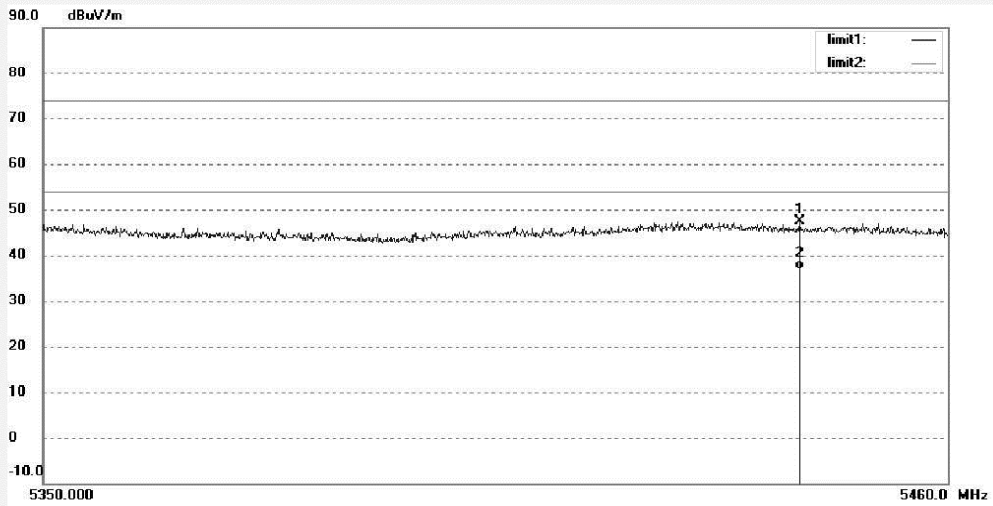


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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #565                      | Polarization: Horizontal   |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5745MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11n HT20



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 5441.850    | 46.51            | 0.89        | 47.40           | 74.00          | -26.60      | peak     |             |               |        |
| 2   | 5441.850    | 35.96            | 0.89        | 36.85           | 54.00          | -17.15      | AVG      |             |               |        |

**Produkte**  
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CH165



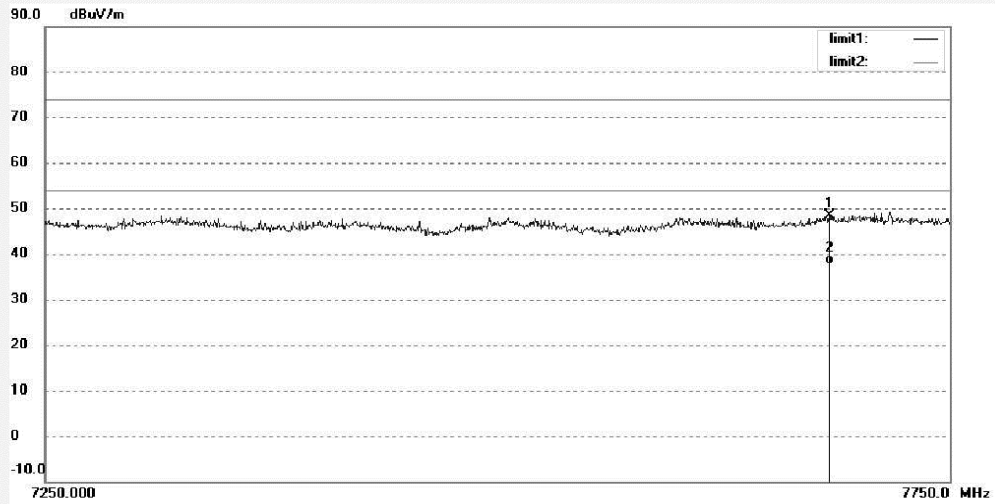
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Site: 2# Chamber  
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #566                      | Polarization: Horizontal   |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5825MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11n HT20



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 7682.000    | 43.32            | 5.17        | 48.49           | 74.00          | -25.51      | peak     |             |               |        |
| 2   | 7682.000    | 32.47            | 5.17        | 37.64           | 54.00          | -16.36      | AVG      |             |               |        |

**Produkte**  
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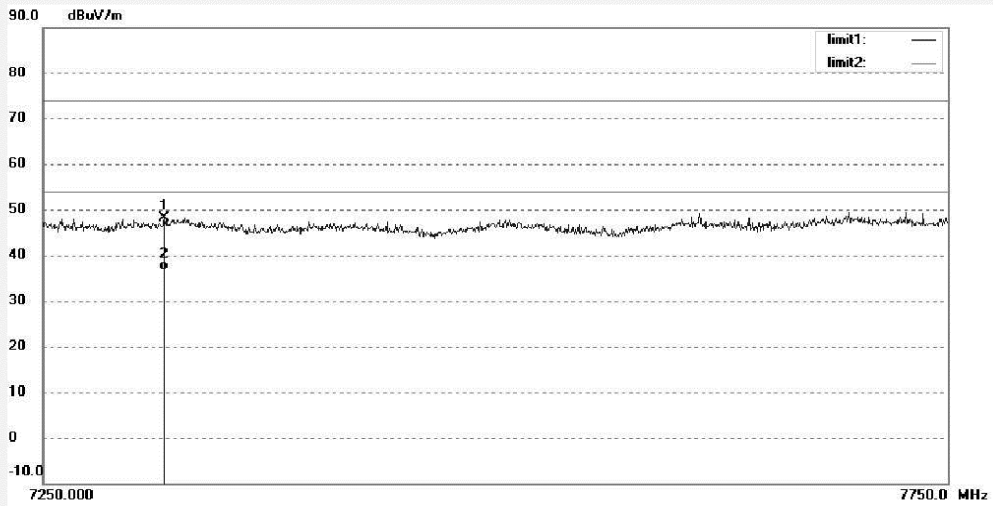
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #567                      | Polarization: Vertical     |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5825MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11n HT20



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 7315.500    | 44.87            | 3.23        | 48.10           | 74.00          | -25.90      | peak     |             |               |        |
| 2   | 7315.500    | 33.42            | 3.23        | 36.65           | 54.00          | -17.35      | AVG      |             |               |        |

**Produkte**  
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802.11n HT40  
 CH151



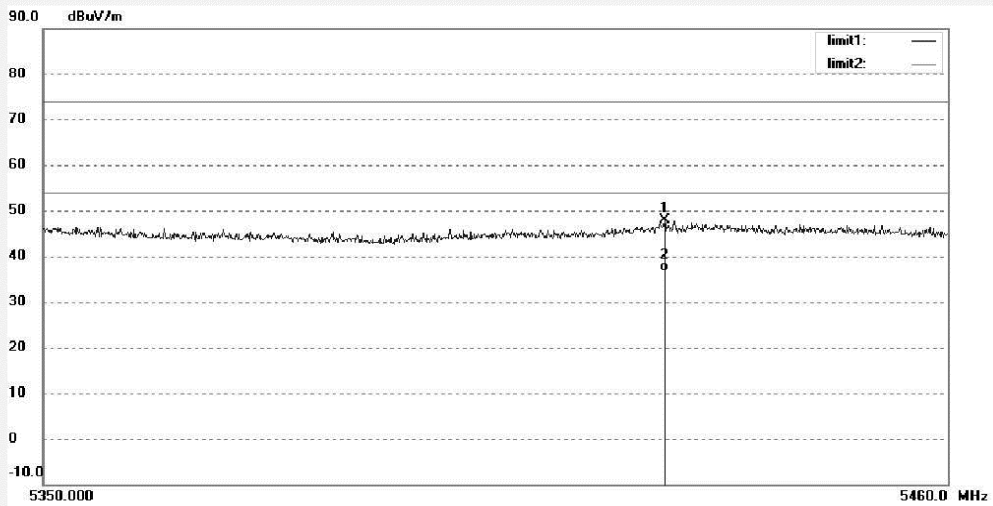
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #568                      | Polarization: Vertical     |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5755MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11n HT40



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 5425.350    | 46.98            | 0.81        | 47.79           | 74.00          | -26.21      | peak     |             |               |        |
| 2   | 5425.350    | 35.85            | 0.81        | 36.66           | 54.00          | -17.34      | AVG      |             |               |        |

**Produkte**  
 Products



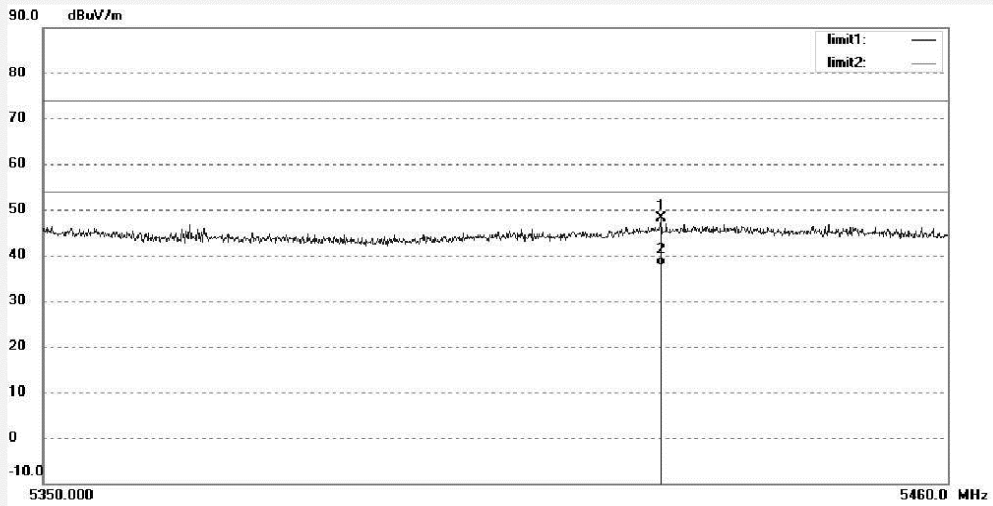
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #569                      | Polarization: Horizontal   |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5755MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11n HT40



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 5424.910    | 47.42            | 0.78        | 48.20           | 74.00          | -25.80      | peak     |             |               |        |
| 2   | 5424.910    | 36.74            | 0.78        | 37.52           | 54.00          | -16.48      | AVG      |             |               |        |

**Produkte**  
 Products

CH159



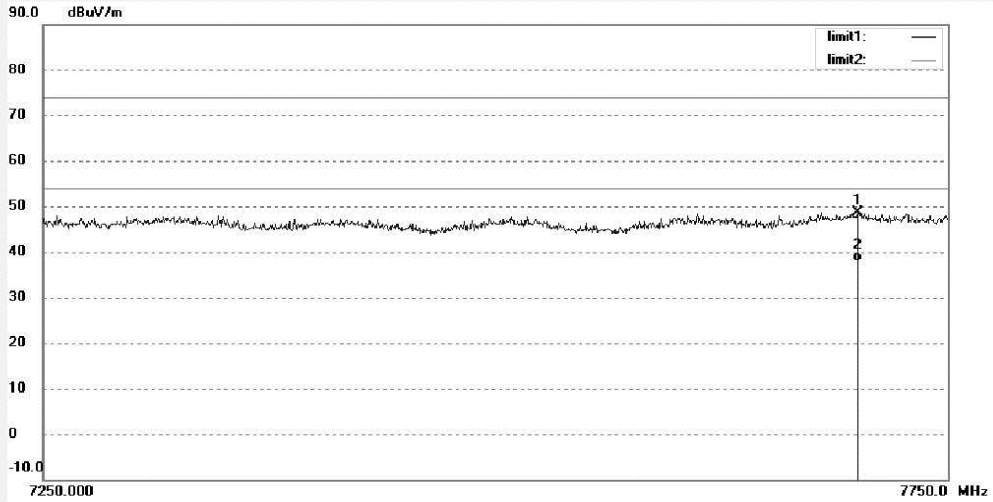
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #570                      | Polarization: Horizontal   |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5795MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11n HT40



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 7698.500    | 43.48            | 5.25        | 48.73           | 74.00          | -25.27      | peak     |             |               |        |
| 2   | 7698.500    | 32.55            | 5.25        | 37.80           | 54.00          | -16.20      | AVG      |             |               |        |



**Produkte**  
 Products



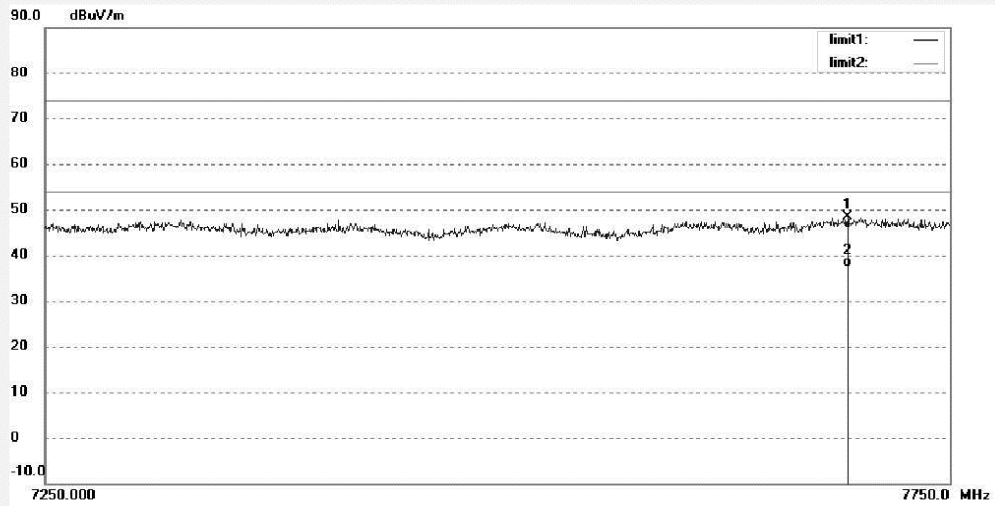
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #571                      | Polarization: Vertical     |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5795MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11n HT40



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 7692.000    | 43.14            | 5.22        | 48.36           | 74.00          | -25.64      | peak     |             |               |        |
| 2   | 7692.000    | 32.04            | 5.22        | 37.26           | 54.00          | -16.74      | AVG      |             |               |        |

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802.11ac VHT80  
 CH155



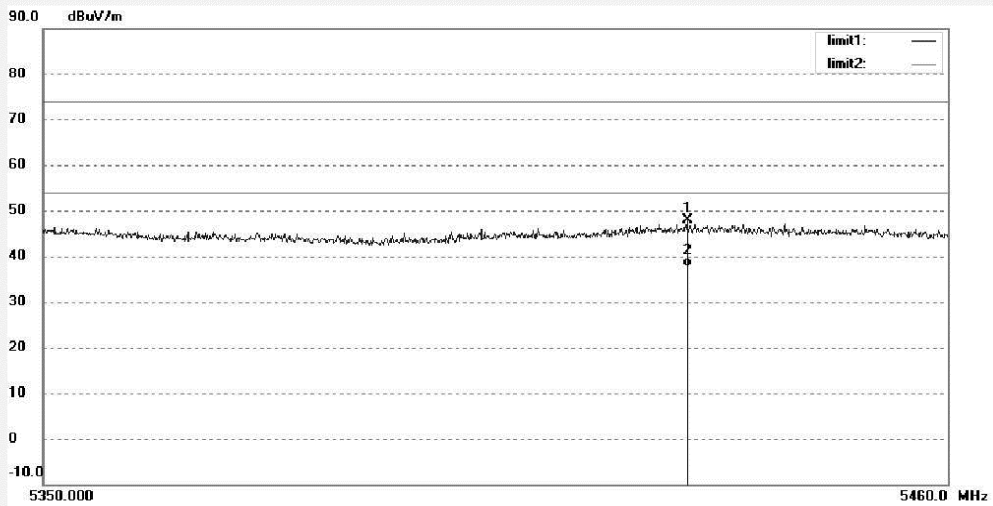
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #572                      | Polarization: Vertical     |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5775MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11ac VHT80



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 5428.100    | 47.18            | 0.81        | 47.99           | 74.00          | -26.01      | peak     |             |               |        |
| 2   | 5428.100    | 36.75            | 0.81        | 37.56           | 54.00          | -16.44      | AVG      |             |               |        |

**Produkte**  
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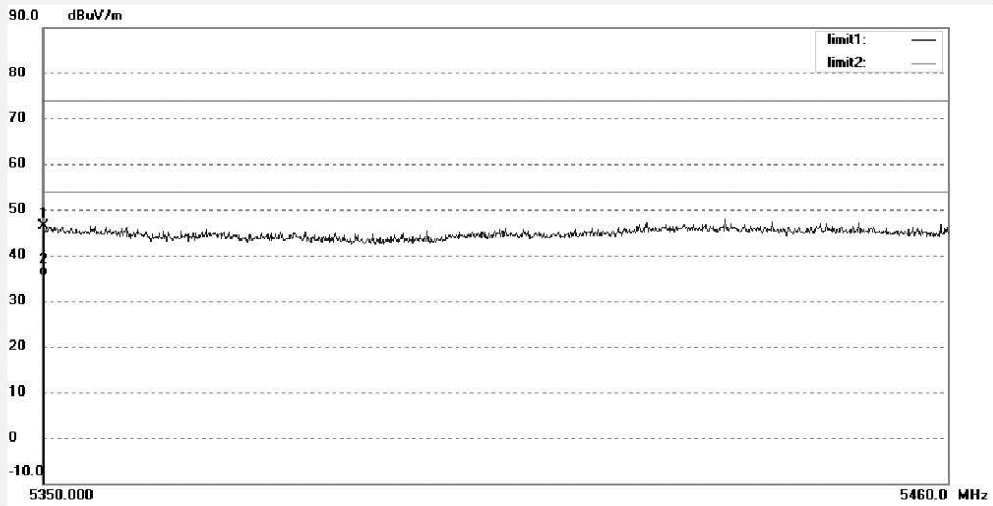


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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #573                      | Polarization: Horizontal   |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5775MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11ac VHT80



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 5350.000    | 45.54            | 0.84        | 46.38           | 74.00          | -27.62      | peak     |             |               |        |
| 2   | 5350.000    | 34.45            | 0.84        | 35.29           | 54.00          | -18.71      | AVG      |             |               |        |

**Produkte**  
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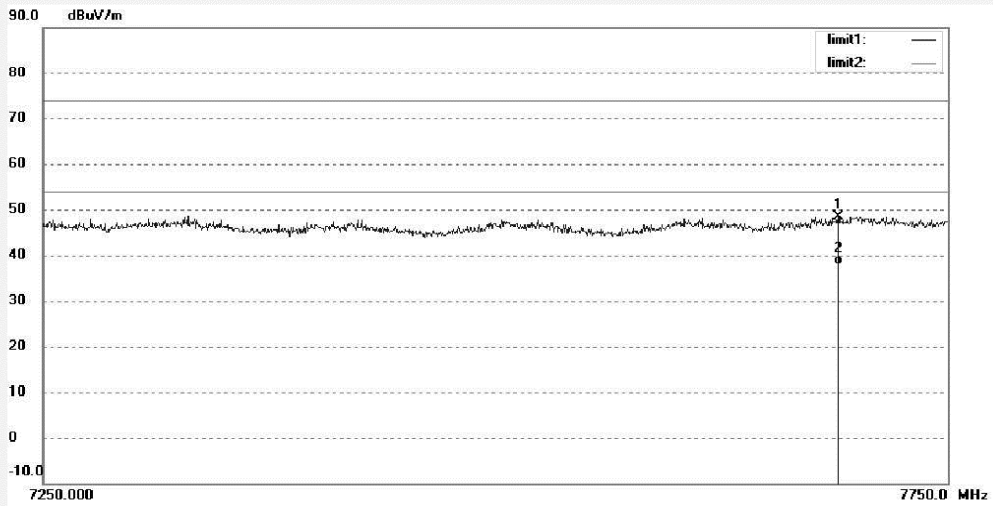
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #574                      | Polarization: Horizontal   |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5775MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11ac VHT80



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 7688.000    | 43.19            | 5.19        | 48.38           | 74.00          | -25.62      | peak     |             |               |        |
| 2   | 7688.000    | 32.78            | 5.19        | 37.97           | 54.00          | -16.03      | AVG      |             |               |        |

**Produkte**  
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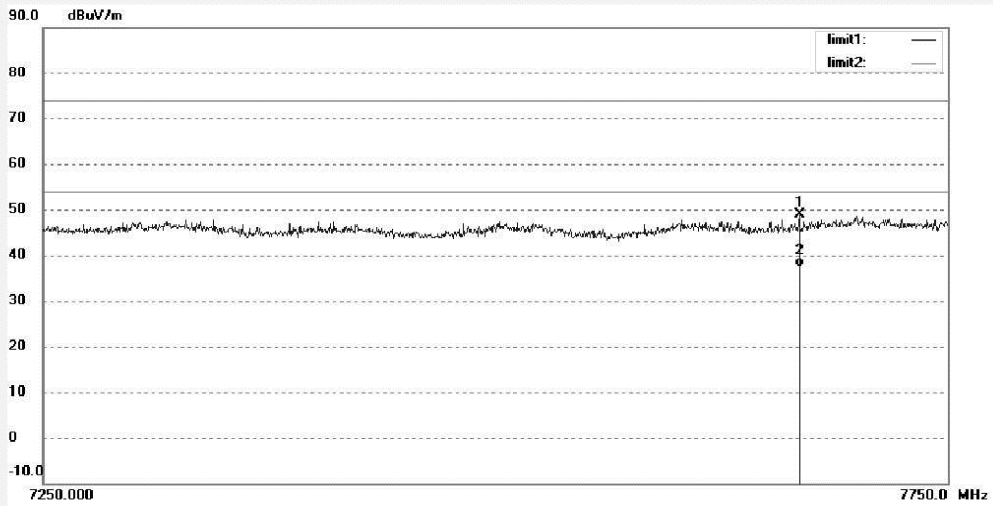
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #575                      | Polarization: Vertical     |
| Standard: FCC (Band Edge)                 | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/18/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: TX 5775MHz                          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note: 802.11ac VHT80



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 7666.000    | 43.88            | 5.10        | 48.98           | 74.00          | -25.02      | peak     |             |               |        |
| 2   | 7666.000    | 32.26            | 5.10        | 37.36           | 54.00          | -16.64      | AVG      |             |               |        |

# Appendix D

## Test Results of Radiated Emissions and Conducted Emissions

|                                                               |           |
|---------------------------------------------------------------|-----------|
| <b>APPENDIX D.1: TEST RESULTS OF RADIATED EMISSIONS .....</b> | <b>2</b>  |
| ACCESS TO USB DISK VIA WI-FI .....                            | 2         |
| ACCESS TO HDD DISK VIA WI-FI.....                             | 6         |
| <b>APPENDIX D.2: TEST RESULTS OF CONDUCTED EMISSIONS.....</b> | <b>10</b> |
| ACCESS TO HDD DISK VIA WI-FI.....                             | 10        |
| ACCESS TO USB DISK VIA WI-FI .....                            | 12        |

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**Appendix D.1: Test Results of Radiated Emissions**  
 Access to USB disk via Wi-Fi

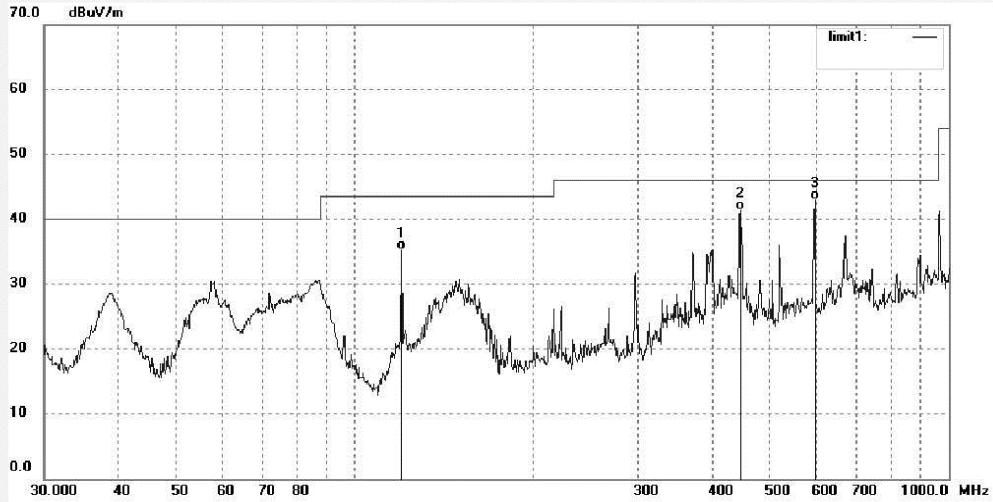


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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #847                      | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated         | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/27/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: Access to USB disk via WiFi         | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 119.8555    | 48.34            | -13.15      | 35.19           | 43.50          | -8.31       | QP       |             |               |        |
| 2   | 446.4141    | 47.18            | -5.84       | 41.34           | 46.00          | -4.66       | QP       |             |               |        |
| 3   | 595.1327    | 45.99            | -3.02       | 42.97           | 46.00          | -3.03       | QP       |             |               |        |

**Produkte**  
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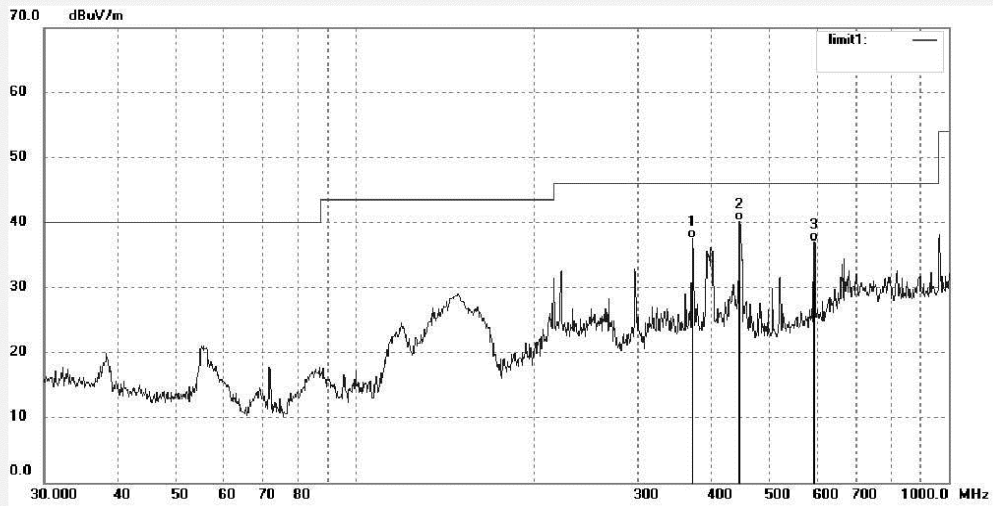
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|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #848                      | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated         | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/27/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: Access to USB disk via WiFi         | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 369.4045    | 44.98            | -7.51       | 37.47           | 46.00          | -8.53       | QP       |             |               |        |
| 2   | 444.8514    | 46.02            | -5.86       | 40.16           | 46.00          | -5.84       | QP       |             |               |        |
| 3   | 593.0497    | 39.96            | -3.03       | 36.93           | 46.00          | -9.07       | QP       |             |               |        |



**Produkte**  
 Products



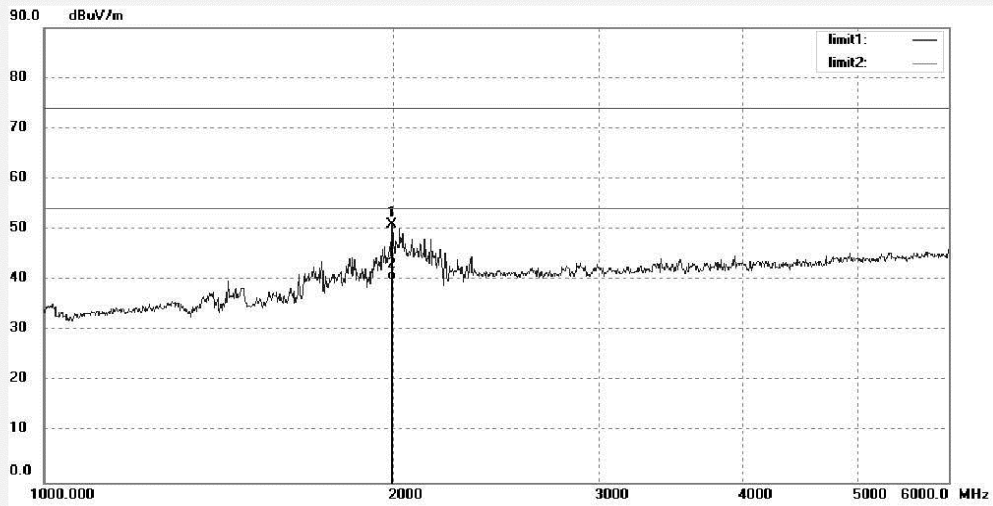
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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #873                      | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated         | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/27/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: Access to USB disk via WiFi         | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 1993.371    | 59.92            | -9.04       | 50.88           | 74.00          | -23.12      | peak     |             |               |        |
| 2   | 1993.371    | 48.98            | -9.04       | 39.94           | 54.00          | -14.06      | AVG      |             |               |        |

Produkte  
 Products

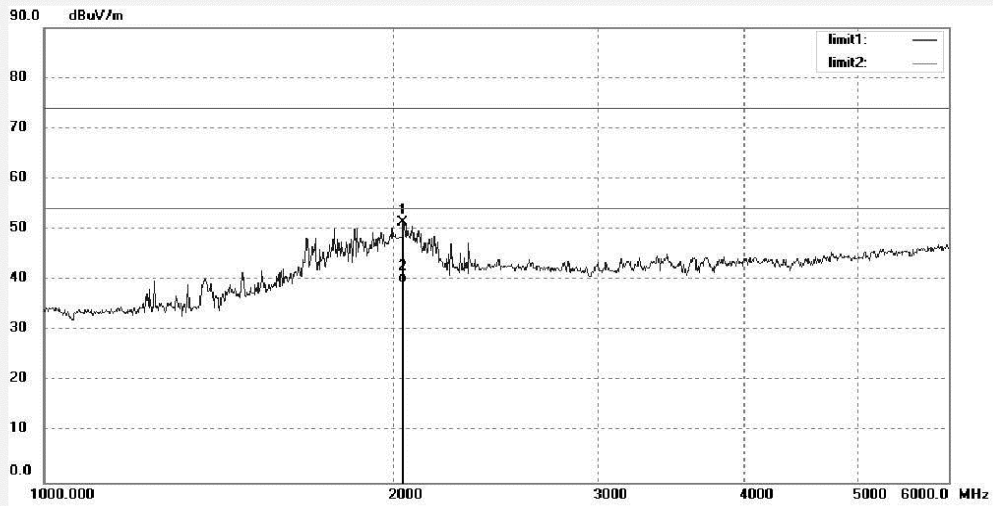


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 Fax:+86-0755-26503396

|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #874                      | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated         | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/27/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: Access to USB disk via WiFi         | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2036.695    | 60.31            | -8.97       | 51.34           | 74.00          | -22.66      | peak     |             |               |        |
| 2   | 2036.695    | 48.53            | -8.97       | 39.56           | 54.00          | -14.44      | AVG      |             |               |        |

**Produkte**  
 Products

Access to HDD disk via Wi-Fi

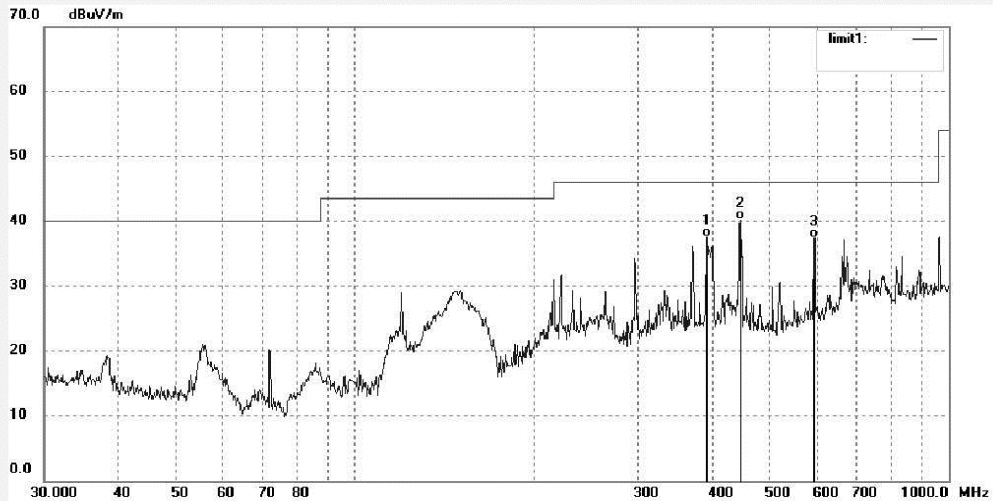


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 Fax:+86-0755-26503396

|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #849                      | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated         | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/27/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: Access to USB HDD via WiFi          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 392.0951    | 44.66            | -7.14       | 37.52           | 46.00          | -8.48       | QP       |             |               |        |
| 2   | 446.4141    | 45.96            | -5.84       | 40.12           | 46.00          | -5.88       | QP       |             |               |        |
| 3   | 593.0497    | 40.45            | -3.03       | 37.42           | 46.00          | -8.58       | QP       |             |               |        |

**Produkte**  
 Products



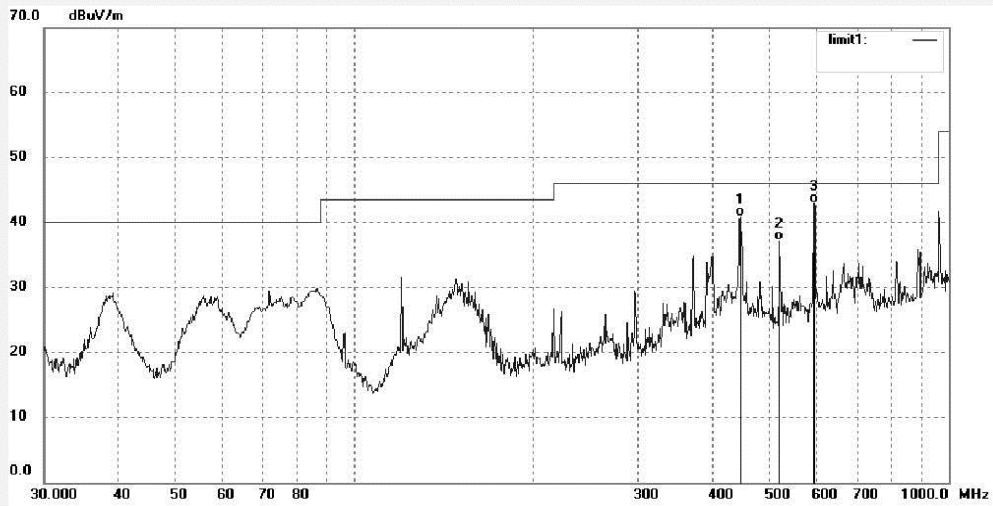
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Site: 2# Chamber  
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 Fax:+86-0755-26503396

|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #850                      | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated         | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/27/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: Access to USB HDD via WiFi          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 446.4141    | 46.71            | -5.84       | 40.87           | 46.00          | -5.13       | QP       |             |               |        |
| 2   | 519.0647    | 41.55            | -4.36       | 37.19           | 46.00          | -8.81       | QP       |             |               |        |
| 3   | 593.0497    | 45.97            | -3.03       | 42.94           | 46.00          | -3.06       | QP       |             |               |        |

Produkte  
Products



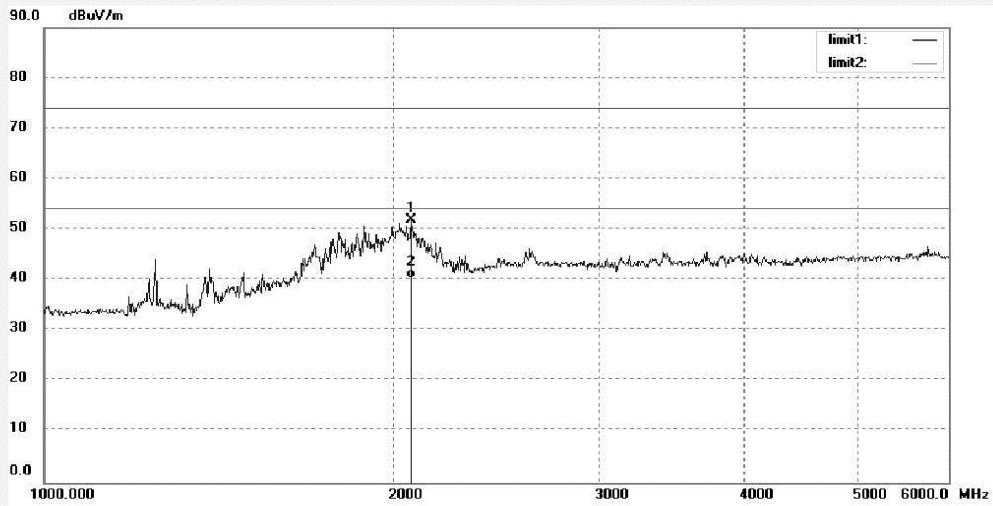
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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #875                      | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated         | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/27/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: Access to USB HDD via WiFi          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2069.805    | 60.61            | -8.76       | 51.85           | 74.00          | -22.15      | peak     |             |               |        |
| 2   | 2069.805    | 49.08            | -8.76       | 40.32           | 54.00          | -13.68      | AVG      |             |               |        |

**Produkte**  
 Products



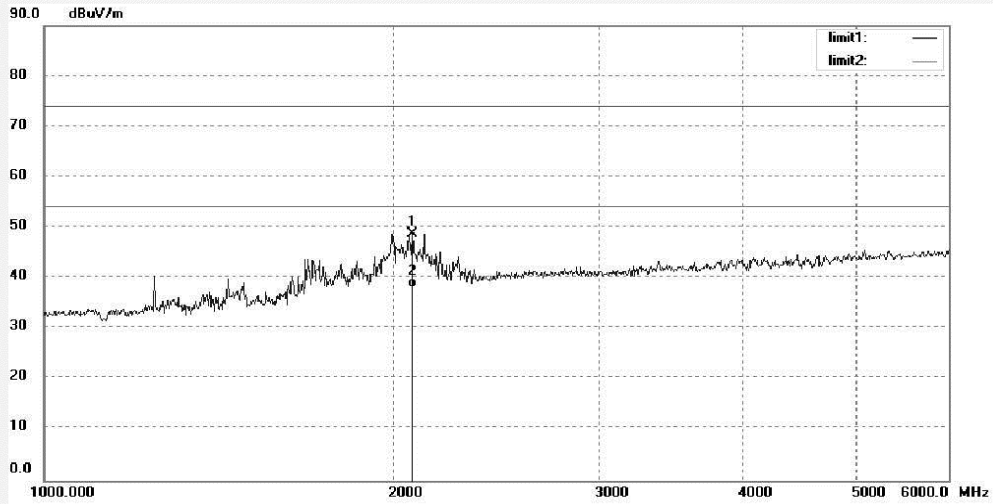
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Site: 2# Chamber  
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 Fax:+86-0755-26503396

|                                           |                            |
|-------------------------------------------|----------------------------|
| Job No.: lenovo #876                      | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated         | Power Source: AC 120V/60Hz |
| Test item: Radiation Test                 | Date: 15/04/27/            |
| Temp.( C)/Hum.(%) 23 C / 48 %             | Time:                      |
| EUT: ThinkPad Stack Wireless Access Point | Engineer Signature:        |
| Mode: Access to USB HDD via WiFi          | Distance: 3m               |
| Model: R123                               |                            |
| Manufacturer: Lenovo                      |                            |

Note:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2073.517    | 57.49            | -8.72       | 48.77           | 74.00          | -25.23      | peak     |             |               |        |
| 2   | 2073.517    | 46.78            | -8.72       | 38.06           | 54.00          | -15.94      | AVG      |             |               |        |

**Appendix D.2: Test Results of Conducted Emissions**  
 Access to HDD disk via Wi-Fi

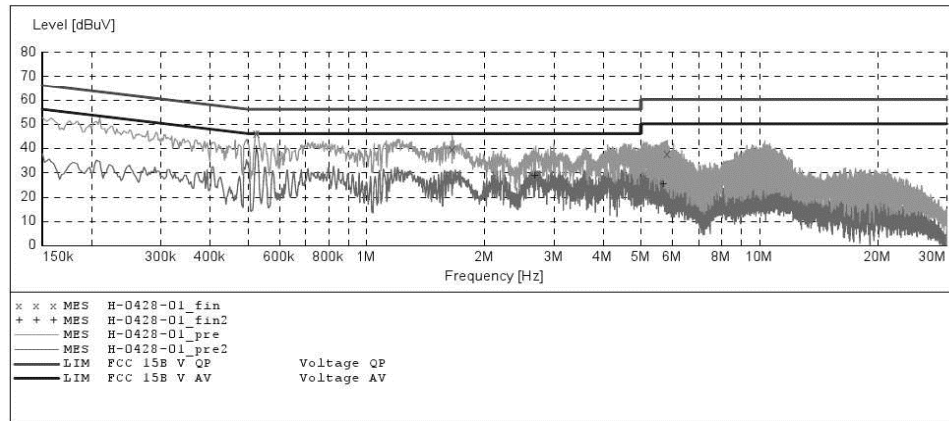
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**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ThinkPad Stack Wireless Access Point M/N:R123  
 Manufacturer: Lenovo  
 Operating Condition: Access to USB HDD via WiFi  
 Test Site: 1#Shielding Room  
 Operator: LAN  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2015-4-28 /

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Frequency 150.0 kHz  
 Stop Frequency 30.0 MHz  
 Step Width 4.5 kHz  
 Detector QuasiPeak  
 Meas. Time 1.0 s  
 IF Bandw. 9 kHz  
 Transducer NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "H-0428-01\_fin"**

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.526000      | 46.00      | 11.5      | 56         | 10.0      | QP       | L1   | GND |
| 1.656000      | 39.30      | 11.6      | 56         | 16.7      | QP       | L1   | GND |
| 5.838500      | 37.40      | 11.8      | 60         | 22.6      | QP       | L1   | GND |

**MEASUREMENT RESULT: "H-0428-01\_fin2"**

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.526000      | 39.60      | 11.5      | 46         | 6.4       | AV       | L1   | GND |
| 2.688500      | 28.50      | 11.7      | 46         | 17.5      | AV       | L1   | GND |
| 5.694500      | 24.90      | 11.8      | 50         | 25.1      | AV       | L1   | GND |

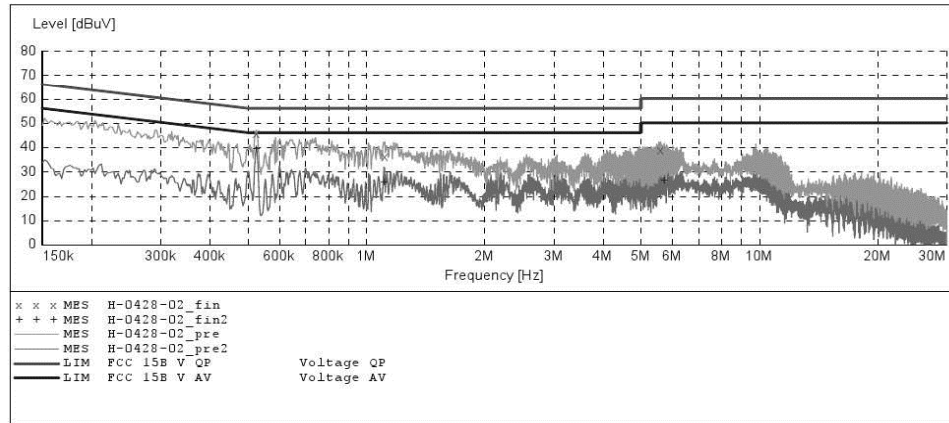
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ThinkPad Stack Wireless Access Point M/N:R123  
 Manufacturer: Lenovo  
 Operating Condition: Access to USB HDD via WiFi  
 Test Site: 1#Shielding Room  
 Operator: LAN  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2015-4-28 /

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "H-0428-02\_fin"**

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.526000      | 45.40      | 11.5      | 56         | 10.6      | QP       | N    | GND |
| 1.116000      | 36.00      | 11.6      | 56         | 20.0      | QP       | N    | GND |
| 5.613500      | 38.60      | 11.8      | 60         | 21.4      | QP       | N    | GND |

**MEASUREMENT RESULT: "H-0428-02\_fin2"**

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.526000      | 39.10      | 11.5      | 46         | 6.9       | AV       | N    | GND |
| 1.112000      | 25.40      | 11.6      | 46         | 20.6      | AV       | N    | GND |
| 5.730500      | 26.00      | 11.8      | 50         | 24.0      | AV       | N    | GND |



Access to USB disk via Wi-Fi

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**CONDUCTED EMISSION STANDARD FCC PART 15 B**

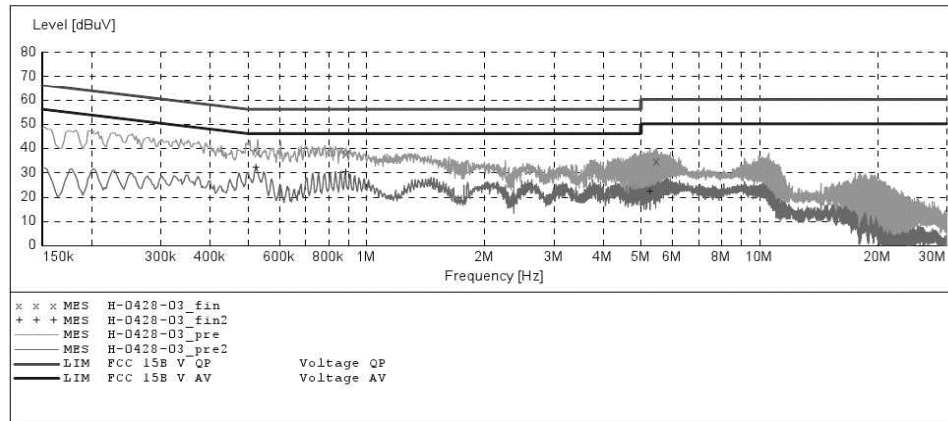
EUT: ThinkPad Stack Wireless Access Point M/N:R123  
 Manufacturer: Lenovo  
 Operating Condition: Access to USB disk via WiFi  
 Test Site: 1#Shielding Room  
 Operator: LAN  
 Test Specification: N 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2015-4-28 /

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: \_SUB\_STD\_VTERM2 1.70  

| Start Frequency | Stop Frequency | Step Width | Detector  | Meas. Time | IF Bandw. | Transducer    |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 150.0 kHz       | 30.0 MHz       | 4.5 kHz    | QuasiPeak | 1.0 s      | 9 kHz     | NSLK8126 2008 |

 Average



**MEASUREMENT RESULT: "H-0428-03\_fin"**

2015-4-28

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.530000      | 37.90      | 11.5      | 56         | 18.1      | QP       | N    | GND |
| 0.888000      | 37.50      | 11.6      | 56         | 18.5      | QP       | N    | GND |
| 5.474000      | 34.50      | 11.8      | 60         | 25.5      | QP       | N    | GND |

**MEASUREMENT RESULT: "H-0428-03\_fin2"**

2015-4-28

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.524000      | 31.80      | 11.5      | 46         | 14.2      | AV       | N    | GND |
| 0.886000      | 29.70      | 11.6      | 46         | 16.3      | AV       | N    | GND |
| 5.271500      | 21.90      | 11.8      | 50         | 28.1      | AV       | N    | GND |

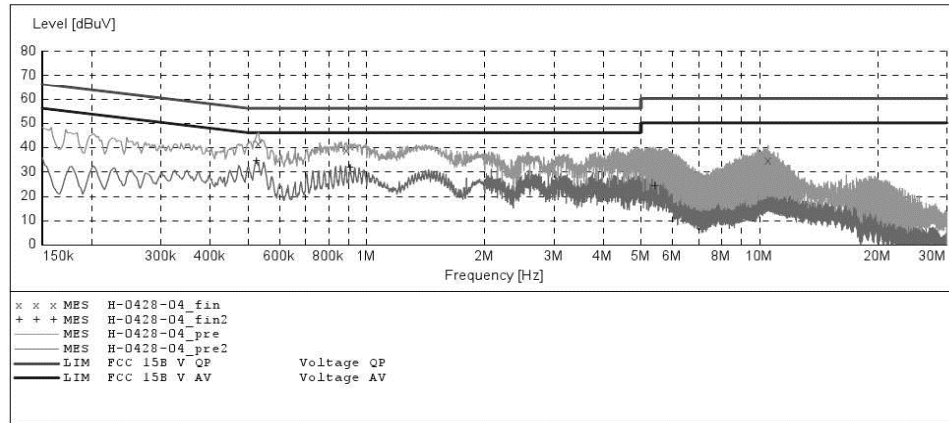
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**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ThinkPad Stack Wireless Access Point M/N:R123  
 Manufacturer: Lenovo  
 Operating Condition: Access to USB disk via WiFi  
 Test Site: 1#Shielding Room  
 Operator: LAN  
 Test Specification: L 120V/60Hz  
 Comment: Mains Port  
 Start of Test: 2015-4-28 /

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: \_SUB\_STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "H-0428-04\_fin"**

2015-4-28

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.532000      | 41.30      | 11.5      | 56         | 14.7      | QP       | L1   | GND |
| 0.890000      | 38.70      | 11.6      | 56         | 17.3      | QP       | L1   | GND |
| 10.527500     | 34.40      | 11.9      | 60         | 25.6      | QP       | L1   | GND |

**MEASUREMENT RESULT: "H-0428-04\_fin2"**

2015-4-28

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.526000      | 34.10      | 11.5      | 46         | 11.9      | AV       | L1   | GND |
| 0.910000      | 31.40      | 11.6      | 46         | 14.6      | AV       | L1   | GND |
| 5.420000      | 23.80      | 11.8      | 50         | 26.2      | AV       | L1   | GND |

# Appendix E

## Test Results of RF Exposure

APPENDIX E.1: RF EXPOSURE COMPLIANCE..... 2

## Appendix E.1: RF Exposure Compliance

### Radio Frequency Exposure Compliance

**RESULT:**

**Passed**

Test standard : FCC 1.1310  
RSS-102 Issue 5  
FCC KDB publication 447498 D01 v05

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modeling should be used to determine compliance.

MPE Calculation  
According to the formula

$$Pd = \frac{Pout * G}{4R^2\pi}$$

Where

Pd = power density in mW/cm<sup>2</sup> or W/m<sup>2</sup>

Pout = output power to antenna in mW or W

G = Antenna gain in numeric

π = 3.14159

R = Distance between observation point and the center of radiator in cm or m

In here

Pout = 17.53dBm = 56.62mW

G = 1.35dBi = 1.36 (numeric)

R = 20cm

For Wi-Fi operation:

$$Pd = \frac{Pout * G}{4R^2\pi} = \frac{56.62 * 1.36}{4 * 20^2 * 3.14159} = 0.0153mW / cm^2 < 1mW/cm^2 \text{ for FCC limit}$$

$$Pd = \frac{Pout * G}{4R^2\pi} = \frac{0.05662 * 1.36}{4 * 0.2^2 * 3.14159} = 0.153W / m^2 < 5.4W/m^2 \text{ for IC limit}$$

The summed maximum permissible exposure (MPE) level is 0.0153mW/cm<sup>2</sup> and 0.153W/m<sup>2</sup>. It is less than MPE limit 1mW/cm<sup>2</sup> for FCC and 5.4W/m<sup>2</sup> for IC, therefore the device compliance with MPE limit.