

**LITE-ON TECHNOLOGY CORPORATION**

A World-Class Company Striving for Excellence

---

**WPB 8326**

**Antenna passive measurement  
Report for certificate**

2025.04.25

# Agenda

- **WPB 8326 antenna info.**
  - Antenna model
  - Antenna manufacture name  
INPAQ TECHNOLOGY CO., LTD
  - Antenna manufacture address  
326103 No. 566-1 Gaoshi Road, Yangmei District, Taoyuan City
  - Antenna Specification
  - Antenna radiation pattern
  - Efficiency & Peak gain table

## Antenna model

|                               | Antenna model    |
|-------------------------------|------------------|
| ANT1_Scan radio Triple band 1 | 20301-004290A000 |
| ANT2_Dual band 1              | 20301-004290A000 |
| ANT3_Dual band 2              | 20301-004290A000 |
| ANT4_Scan radio Triple band 2 | 20301-004290A000 |
| ANT 5_6G-1                    | 20301-004290A000 |
| ANT 6_6G-1                    | 20301-004290A000 |
| ANT 7_BT                      | 20301-004290A000 |

# Specification

## Requirements of Antenna Design

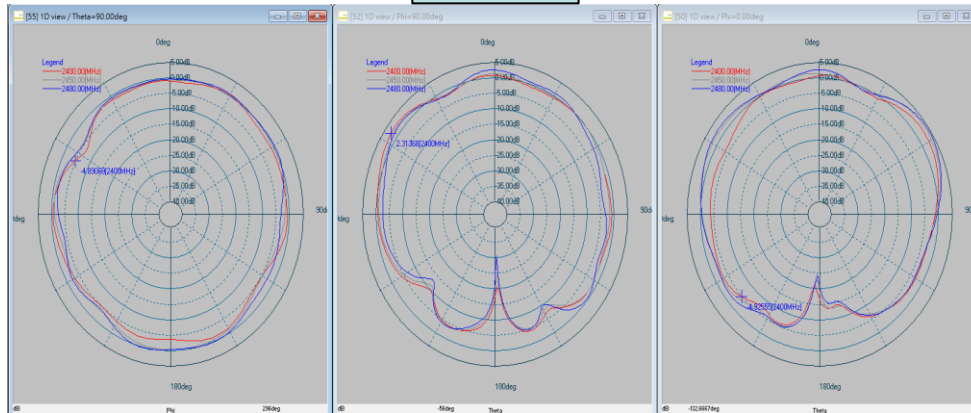
| RF Function | Frequency Band                            |
|-------------|-------------------------------------------|
| ANT1        | 2400~2500 MHz/5150~5850 MHz/5925~7125 MHz |
| ANT2        | 2400~2500 MHz/5150~5850 MHz               |
| ANT3        | 2400~2500 MHz/5150~5850 MHz               |
| ANT4        | 2400~2500 MHz/5150~5850 MHz/5925~7125 MHz |
| ANT5        | 5925~7125 MHz                             |
| ANT6        | 5925~7125 MHz                             |
| ANT7        | 2400~2500 MHz                             |

## Requirements of Measurement

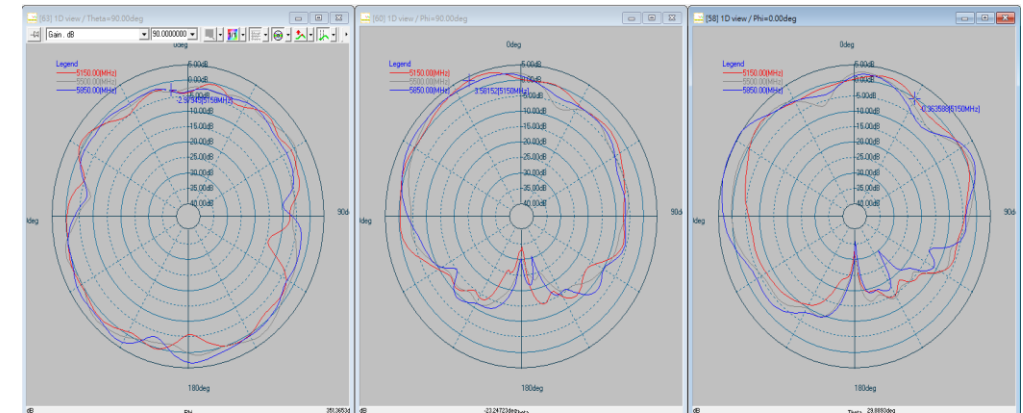
| Test Item   | Specification |
|-------------|---------------|
| Return loss | <-10 dB       |
| Isolation   | < -20 dB      |
| Efficiency  | > 50 %        |

# Ant 1 radiation pattern

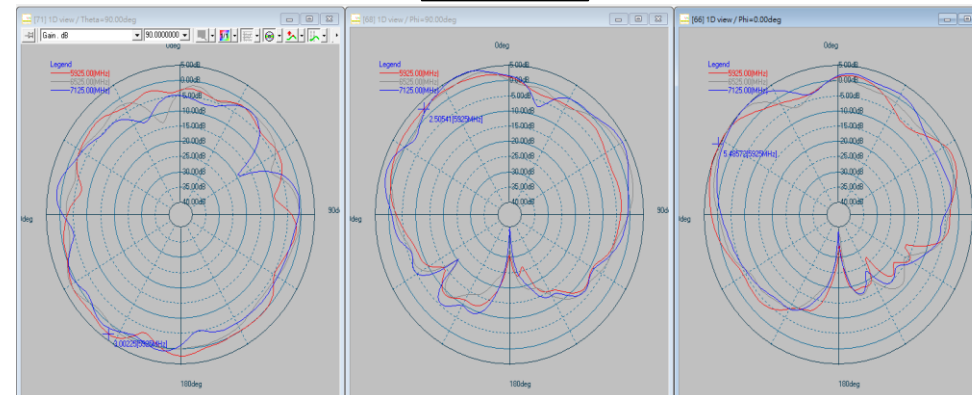
2G



5G

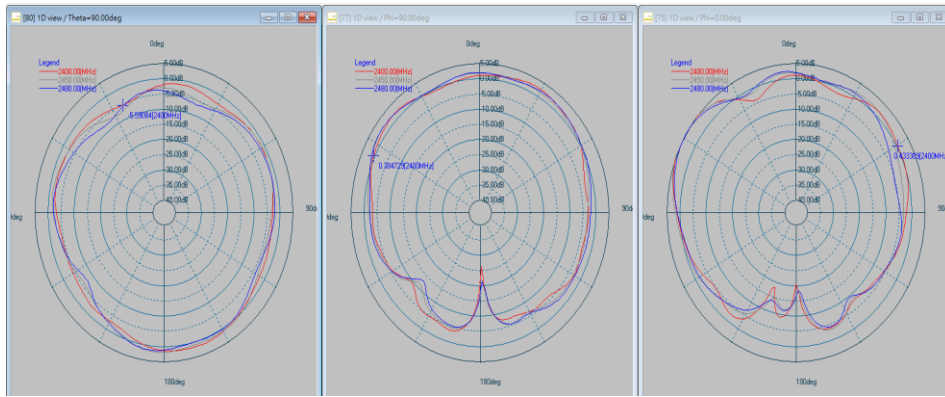


6G

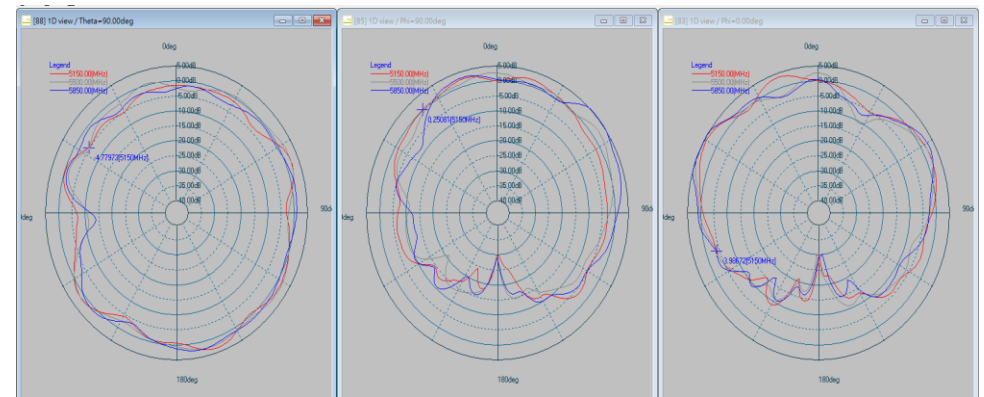


# Ant 2 radiation pattern

2G

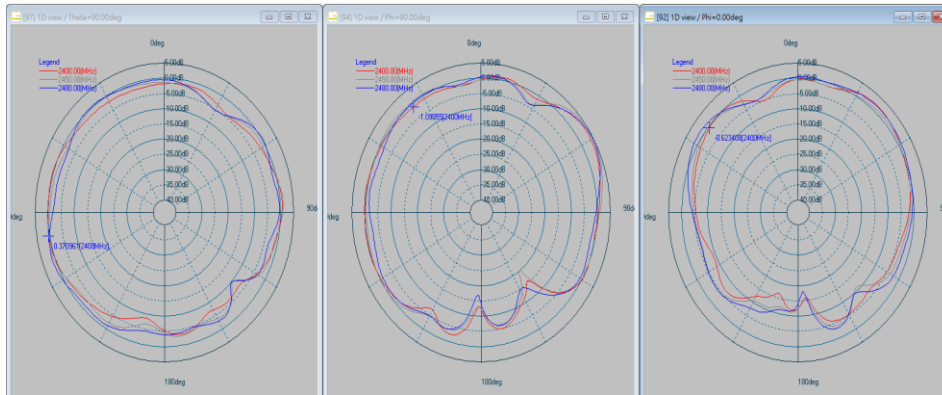


5G

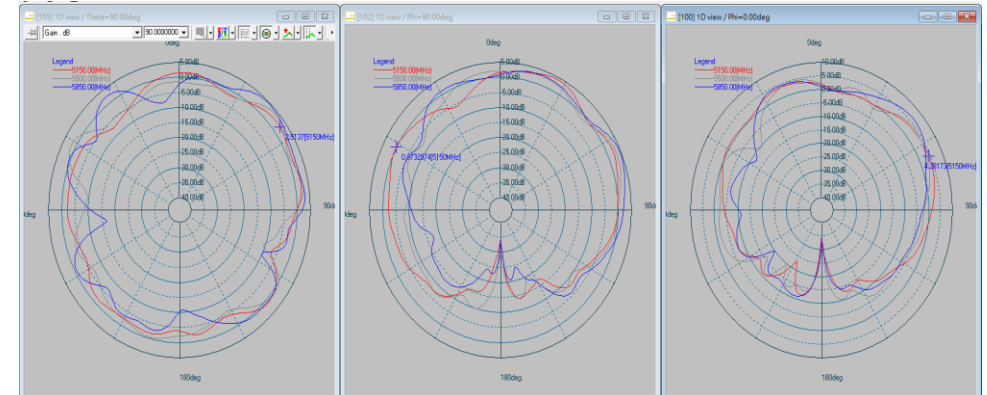


# Ant 3 radiation pattern

2G



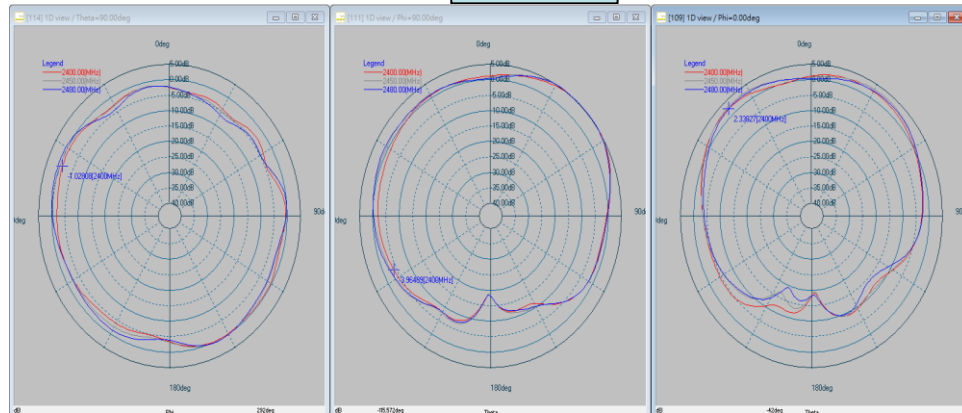
5G



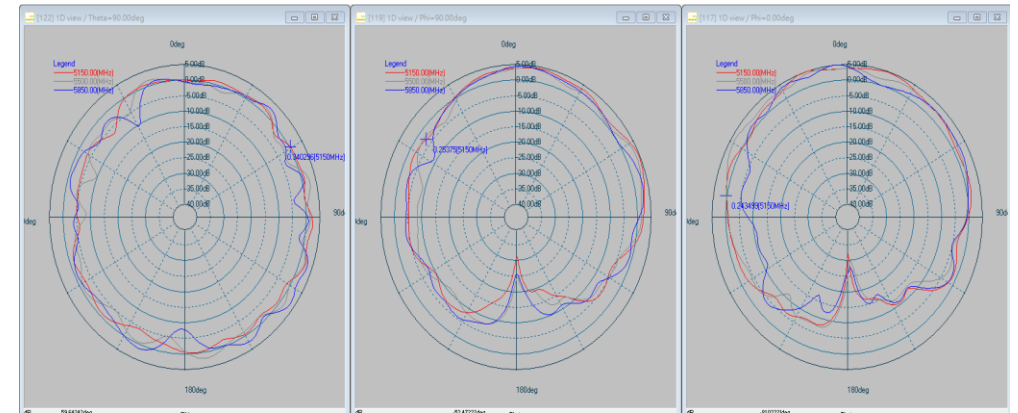


# Ant 4 radiation pattern

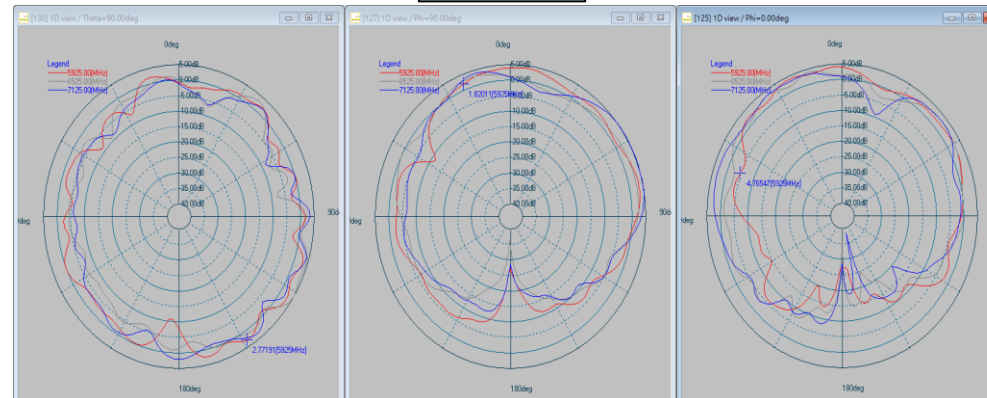
2G



5G



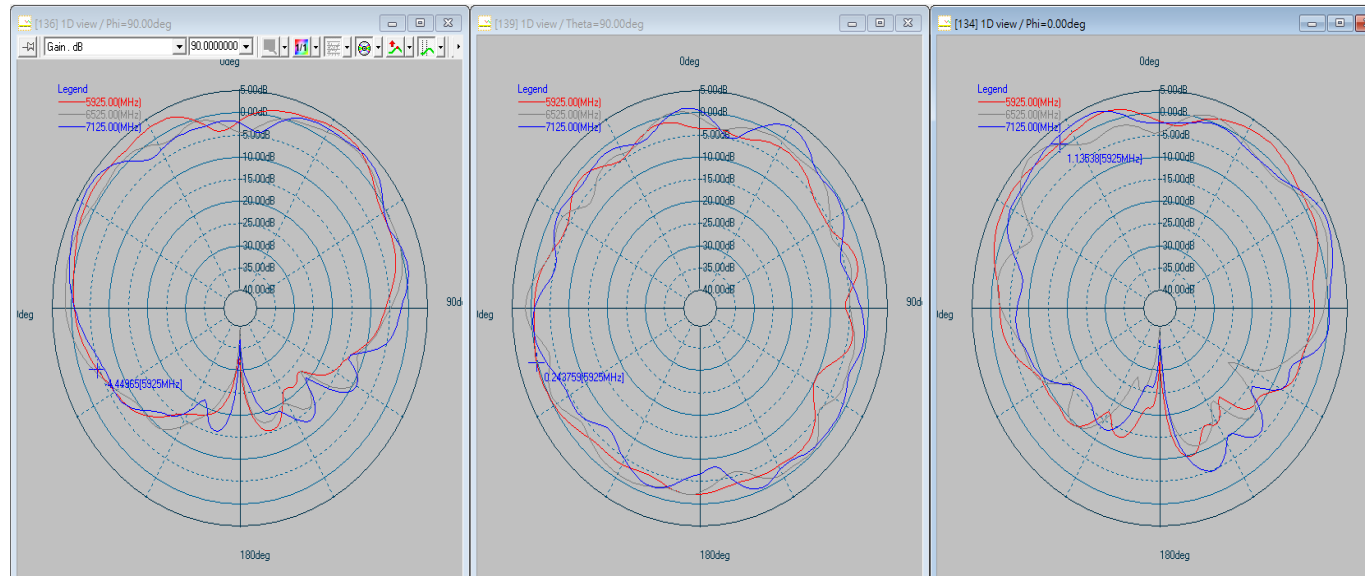
6G





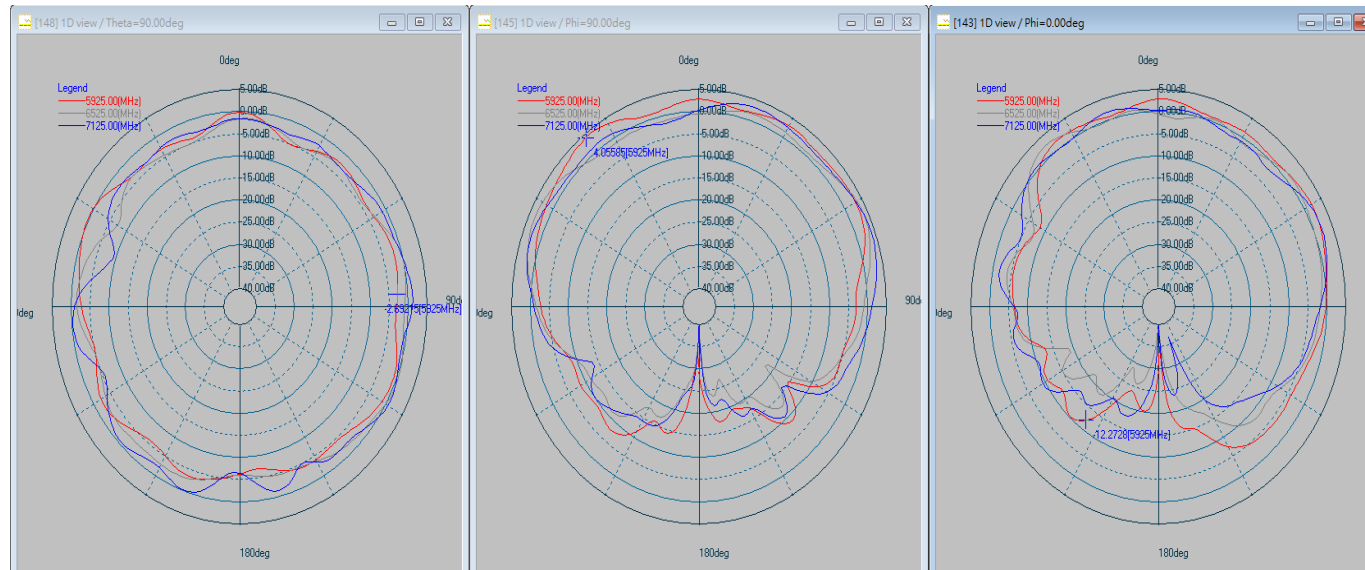
# Ant 5 radiation pattern

6G



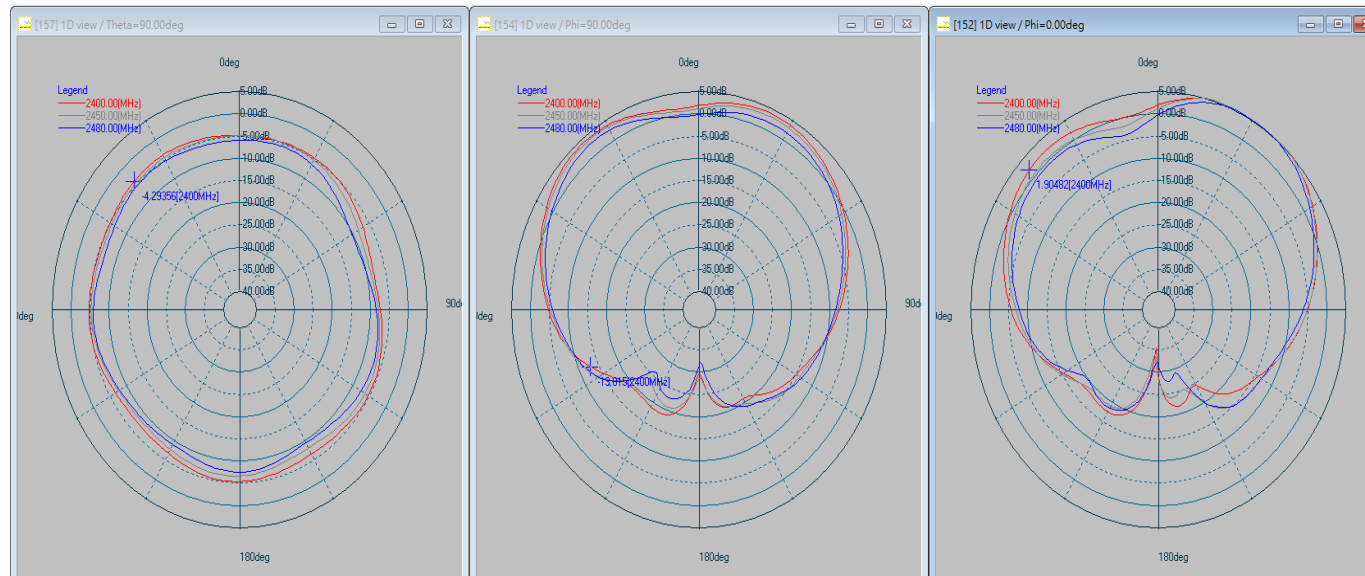
# Ant 6 radiation pattern

6G



# Ant 7 radiation pattern

2G



# Efficiency & Peak gain table

|                 | ANT1_Scan-1    |                 | ANT2_DB1       |                 | ANT3_DB2       |                 | ANT4_Scan-2    |                 |                 | AN5_6G1        |                 |                | ANT6_6G2        |                 | ANT7_BT        |                 |
|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|
| Frequency (MHz) | Efficiency (%) | Peak Gain (dBi) | Efficiency (%) | Peak Gain (dBi) | Efficiency (%) | Peak Gain (dBi) | Efficiency (%) | Peak Gain (dBi) | Frequency (MHz) | Efficiency (%) | Peak Gain (dBi) | Efficiency (%) | Peak Gain (dBi) | Frequency (MHz) | Efficiency (%) | Peak Gain (dBi) |
| 2400            | 53             | 2.74            | 63             | 4.45            | 58             | 3.87            | 63             | 3.43            | 5925            | 64             | 3.64            | 60             | 3.9             | 2400            | 63             | 5.39            |
| 2450            | 65             | 4.59            | 63             | 2.82            | 59             | 3.93            | 65             | 4.69            | 6200            | 61             | 2.74            | 62             | 3.94            | 2450            | 63             | 6.16            |
| 2500            | 65             | 4.63            | 55             | 2.11            | 52             | 3.67            | 60             | 4.07            | 6475            | 56             | 3.74            | 65             | 4.25            | 2500            | 47             | 5.15            |
| 5150            | 64             | 5.49            | 71             | 5.78            | 64             | 6.55            | 78             | 5.95            | 6800            | 56             | 2.08            | 59             | 4.06            |                 |                |                 |
| 5350            | 69             | 5.44            | 62             | 5.03            | 66             | 6.09            | 79             | 5.05            | 7125            | 57             | 3.84            | 59             | 4.41            |                 |                |                 |
| 5725            | 66             | 5.67            | 72             | 5.96            | 66             | 6.27            | 74             | 4.45            |                 |                |                 |                |                 |                 |                |                 |
| 5850            | 67             | 5.81            | 72             | 5.66            | 63             | 5.69            | 75             | 5.25            |                 |                |                 |                |                 |                 |                |                 |
| 5925            | 62             | 5.56            |                |                 |                |                 | 73             | 5.29            |                 |                |                 |                |                 |                 |                |                 |
| 6200            | 64             | 5.85            |                |                 |                |                 | 76             | 7.18            |                 |                |                 |                |                 |                 |                |                 |
| 6475            | 62             | 5.08            |                |                 |                |                 | 70             | 5.6             |                 |                |                 |                |                 |                 |                |                 |
| 6800            | 59             | 5.37            |                |                 |                |                 | 72             | 6.15            |                 |                |                 |                |                 |                 |                |                 |
| 7125            | 56             | 5.65            |                |                 |                |                 | 71             | 5.34            |                 |                |                 |                |                 |                 |                |                 |





# LITEON

Best Partner in Networking,  
Eco-Friendly and Intelligent Technologies.

# *Thank You*