

**8 SAR MEASUREMENT RESULTS**

**8.1 2.4GHZ BAND**

**8.1.1 PRIMARY LANDSCAPE - MAIN ANTENNA TX**

Main antenna transmits for this position.



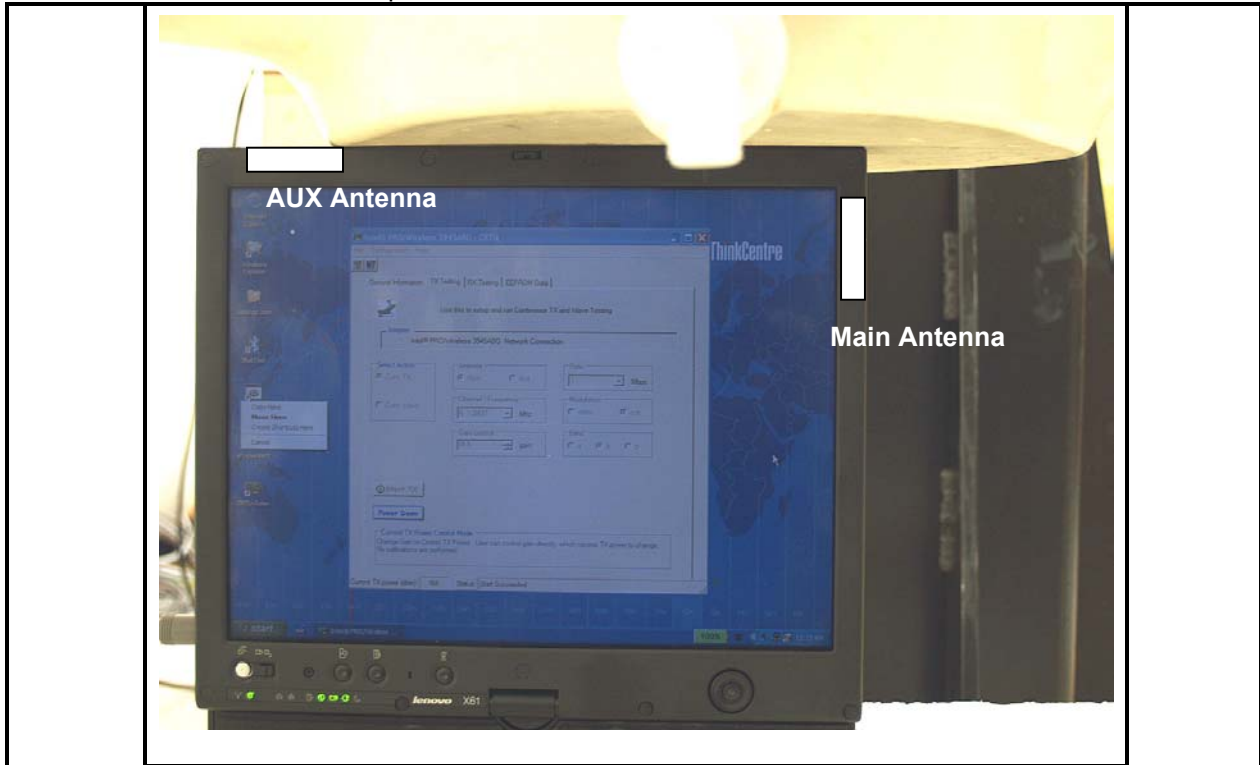
<b>802.11b (1Mbps)</b>				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
1	2412	0.013	0.000	0.013
6	2437			
11	2462			
<b>802.11g (6 Mbps)</b>				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
1	2412	0.013	0.000	0.013
6	2437			
11	2462			

Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

**8.1.2 SECONDARY LANDSCAPE - MAIN ANTENNA TX**

AUX Antenna is disabled at this position.



**802.11b (1Mbps)**

Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
1	2412	0.061	-0.131	0.063
6	2437			
11	2462			

**802.11g (6 Mbps)**

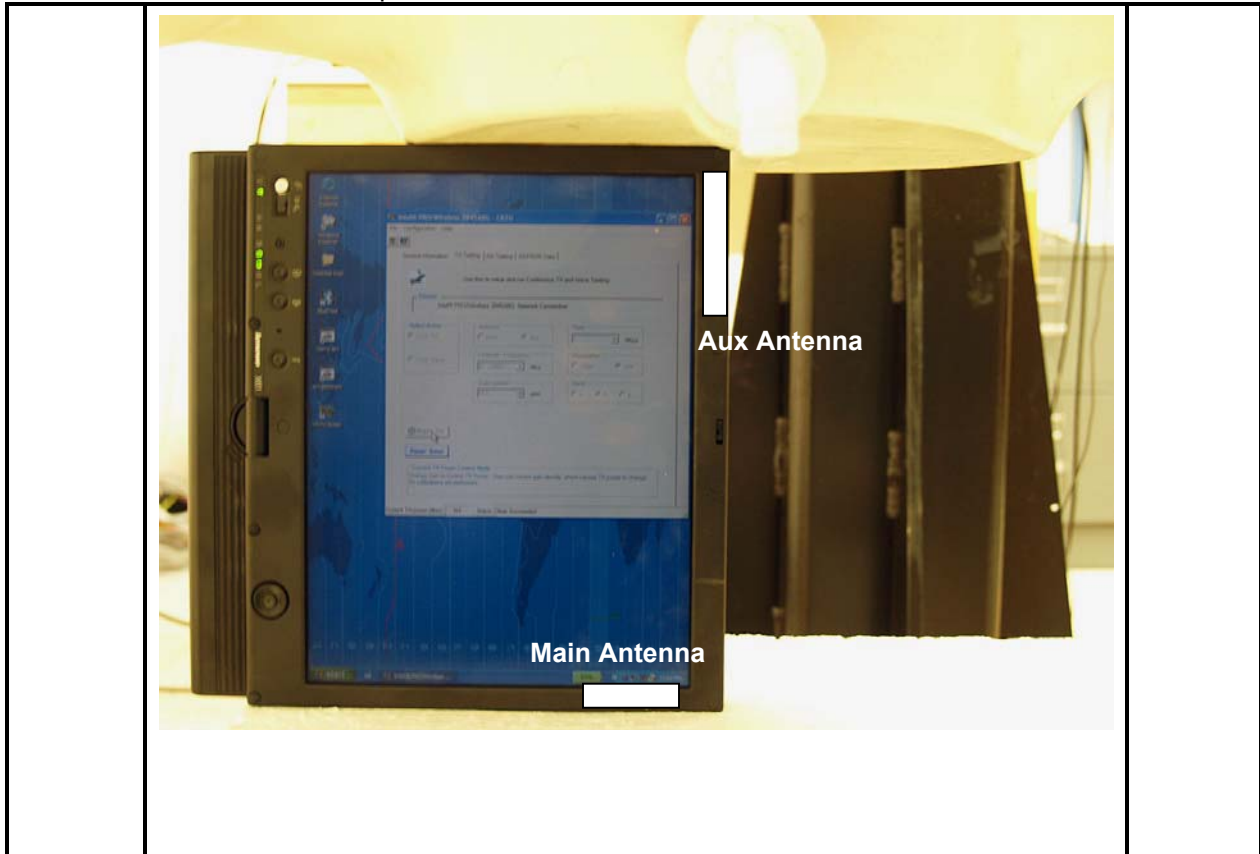
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
1	2412	0.058	-0.156	0.060
6	2437			
11	2462			

Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

**8.1.3 PRIMARY PORTRAIT - AUX ANTENNA TX**

AUX Antenna transmits for this position.



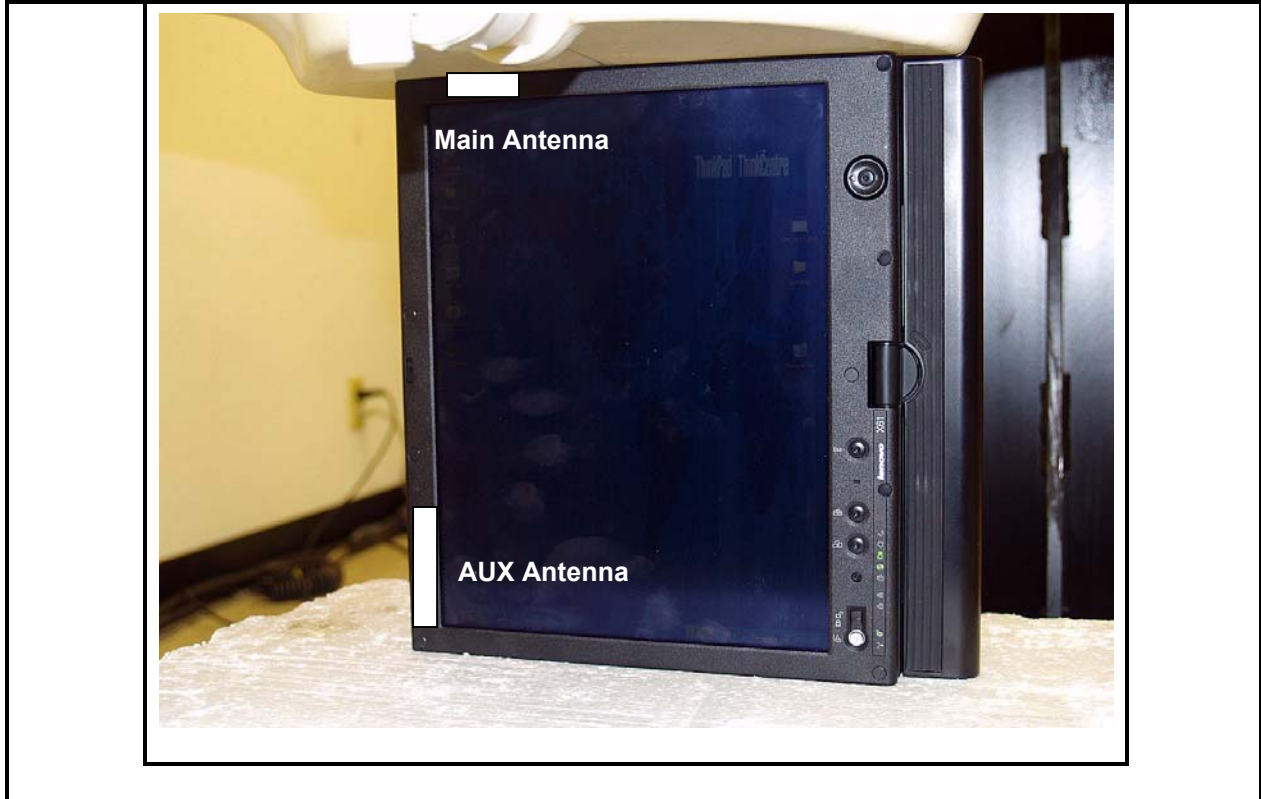
<b>802.11b (1Mbps)</b>				
<b>Channel</b>	<b>f (MHz)</b>	<b>Measured SAR 1g (mW/g)</b>	<b>Power Drift (dB)</b>	<b>Extrapolated<sup>1)</sup> SAR 1g (mW/g)</b>
1	2412	0.093	-0.016	0.093
<b>6</b>	<b>2437</b>	<b>0.149</b>	<b>-0.134</b>	<b>0.154</b>
11	2462	0.106	0.000	0.106
<b>6<sup>4)</sup></b>	<b>2437</b>	<b>0.148</b>	<b>-0.170</b>	<b>0.154</b>
<b>802.11g (6 Mbps)</b>				
<b>Channel</b>	<b>f (MHz)</b>	<b>Measured SAR 1g (mW/g)</b>	<b>Power Drift (dB)</b>	<b>Extrapolated<sup>1)</sup> SAR 1g (mW/g)</b>
1	2412			
6	2437	0.134	0.000	0.134
11	2462			

Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.
- 4) Collocation with Bluetooth Module.

### 8.1.4 SECONDARY PORTRAIT

This position is skipped since WLAN main antenna is disabled for this position.



Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

**8.1.5 LAP HELD - MAIN ANTENNA**

Main antenna transmits for this position.



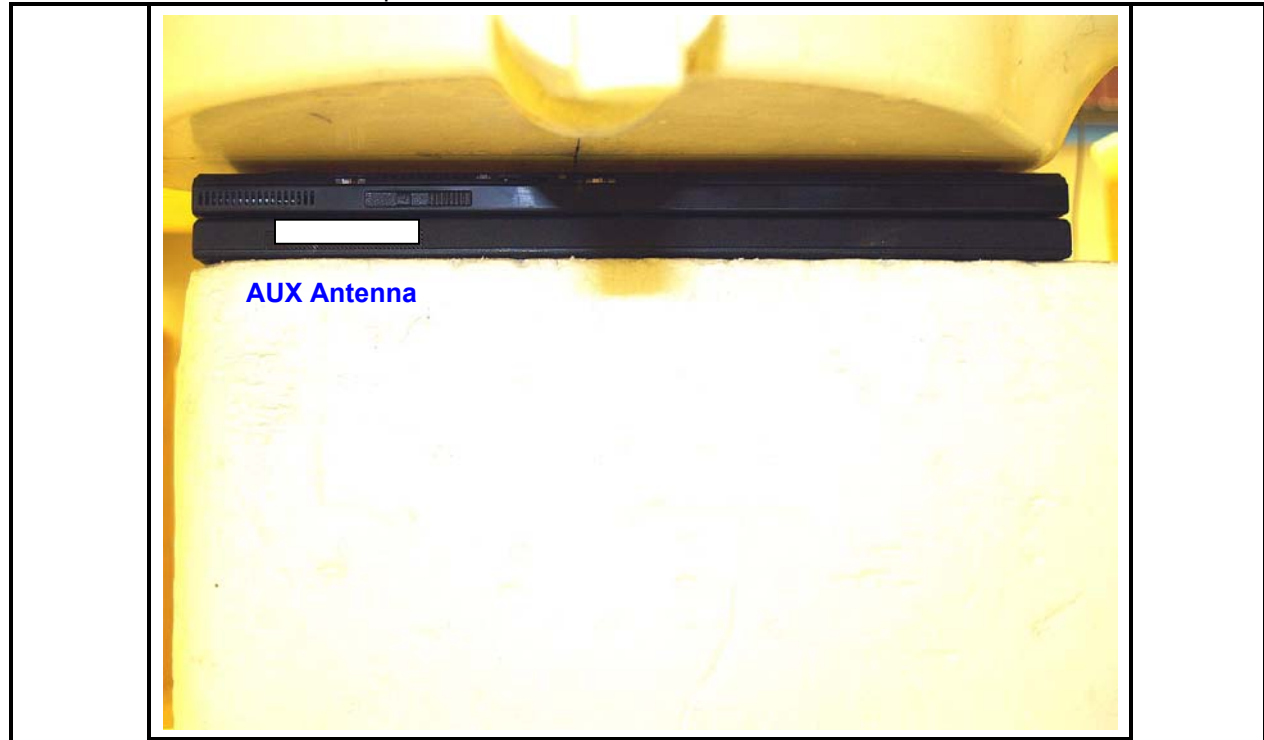
<b>802.11b (1Mbps)</b>				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
1	2412	0.019	0.000	0.019
6	2437			
11	2462			
<b>802.11g (6 Mbps)</b>				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
1	2412	0.017	-0.049	0.017
6	2437			
11	2462			

Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

**8.1.6 LAP HELD - AUX ANTENNA**

AUX Antenna transmits for this position.



<b>802.11b (1Mbps)</b>				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
1	2412	0.024	-0.120	0.025
6	2437			
11	2462			
<b>802.11g (6 Mbps)</b>				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
1	2412	0.021	-0.148	0.021
6	2437			
11	2462			

Notes:

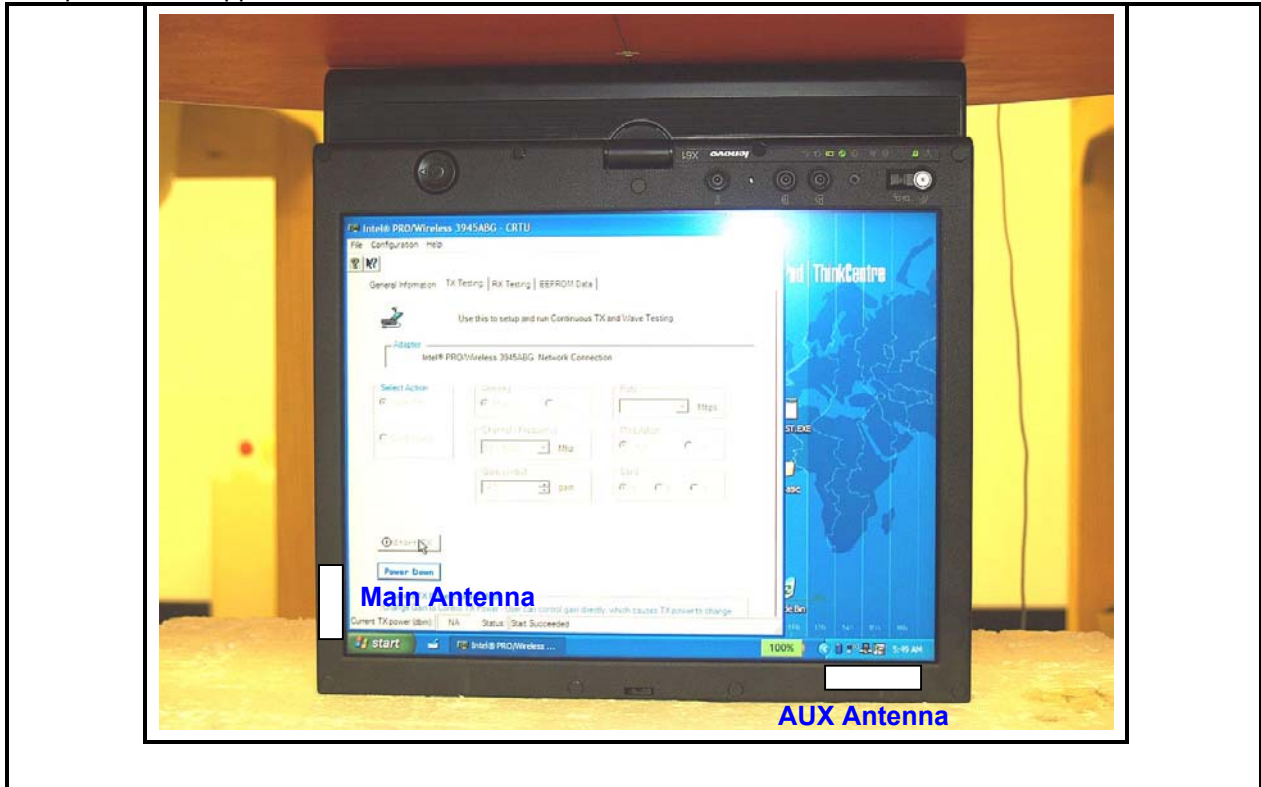
- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.



## 8.2 5GHZ BAND

### 8.2.1 PRIMARY LANDSCAPE - MAIN ANTENNA TX

This position is skipped since SAR values are too low.

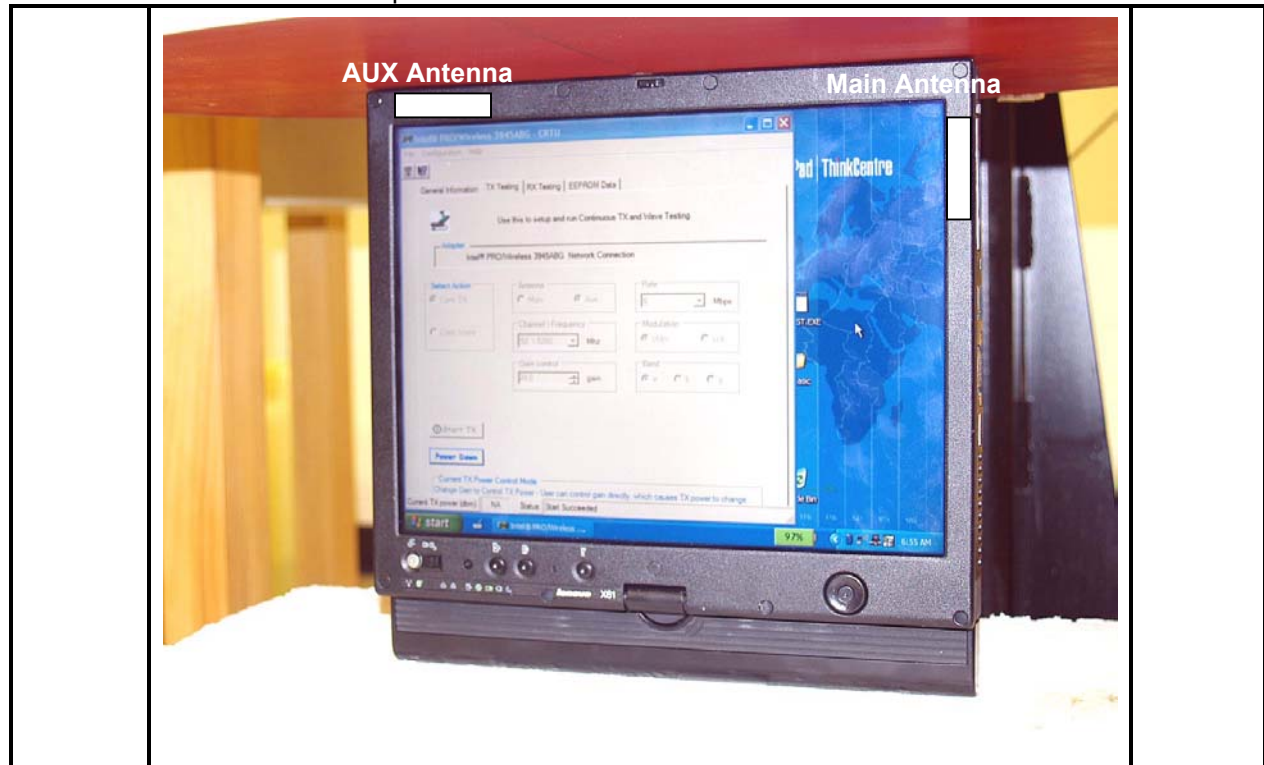


Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

**8.2.2 SECONDARY LANDSCAPE - MAIN ANTENNA TX**

AUX Antenna is disabled at this position.



<b>802.11a 5.2 GHz (6 Mbps)</b>				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
36	5180	0.043	0.000	0.043
52	5260			
64	5320			
<b>802.11a 5.8 GHz (6 Mbps)</b>				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
149	5745	0.055	0.000	0.055
157	5785			
165	5825			

Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.



**8.2.3 PRIMARY PORTRAIT - AUX ANTENNA TX**

AUX Antenna transmits for this position.



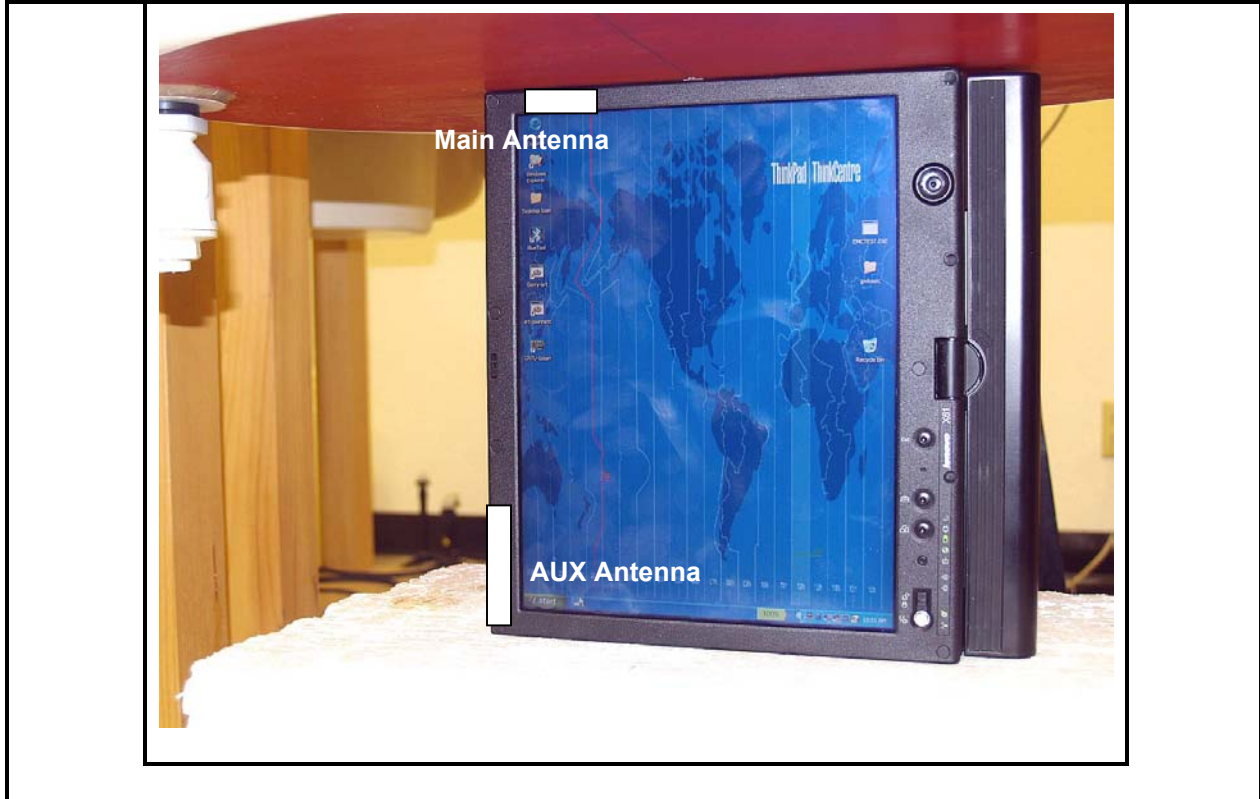
<b>802.11a 5.2 GHz (6 Mbps)</b>				
<b>Channel</b>	<b>f (MHz)</b>	<b>Measured SAR 1g (mW/g)</b>	<b>Power Drift (dB)</b>	<b>Extrapolated<sup>1)</sup> SAR 1g (mW/g)</b>
36	5180	0.056	0.000	0.056
52	5260			
64	5320			
<b>802.11a 5.8 GHz (6 Mbps)</b>				
<b>Channel</b>	<b>f (MHz)</b>	<b>Measured SAR 1g (mW/g)</b>	<b>Power Drift (dB)</b>	<b>Extrapolated<sup>1)</sup> SAR 1g (mW/g)</b>
149	5745	0.088	0.000	0.088
<b>157</b>	<b>5785</b>			
165	5825			
<b>157<sup>4)</sup></b>	<b>5785</b>			

Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.
- 4) Collocation with Bluetooth Module.

### 8.2.4 SECONDARY PORTRAIT

This position is skipped since WLAN main antenna is disabled for this position.



Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

**8.2.5 LAP HELD - MAIN ANTENNA**

Main antenna transmits for this position.



<b>802.11a 5.2 GHz (6 Mbps)</b>				
<b>Channel</b>	<b>f (MHz)</b>	<b>Measured SAR 1g (mW/g)</b>	<b>Power Drift (dB)</b>	<b>Extrapolated<sup>1)</sup> SAR 1g (mW/g)</b>
36	5180			
<b>52</b>	<b>5260</b>	<b>0.076</b>	<b>-0.120</b>	<b>0.078</b>
64	5320			
<b>52<sup>4)</sup></b>	<b>5260</b>	<b>0.079</b>	<b>0.000</b>	<b>0.079</b>
<b>802.11a 5.8 GHz (6 Mbps)</b>				
<b>Channel</b>	<b>f (MHz)</b>	<b>Measured SAR 1g (mW/g)</b>	<b>Power Drift (dB)</b>	<b>Extrapolated<sup>1)</sup> SAR 1g (mW/g)</b>
149	5745			
157	5785	0.073	-0.114	0.075
165	5825			

Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.
- 4) Collocation with Bluetooth Module.

**8.2.6 LAP HELD - AUX ANTENNA**

AUX antenna transmits for this position.



<b>802.11a 5.2 GHz (6 Mbps)</b>				
<b>Channel</b>	<b>f (MHz)</b>	<b>Measured SAR 1g (mW/g)</b>	<b>Power Drift (dB)</b>	<b>Extrapolated<sup>1)</sup> SAR 1g (mW/g)</b>
36	5180	0.051	0.000	0.051
52	5260			
64	5320			
<b>802.11a 5.8 GHz (6 Mbps)</b>				
<b>Channel</b>	<b>f (MHz)</b>	<b>Measured SAR 1g (mW/g)</b>	<b>Power Drift (dB)</b>	<b>Extrapolated<sup>1)</sup> SAR 1g (mW/g)</b>
149	5745	0.073	-0.119	0.075
157	5785			
165	5825			

Notes:

- 1) The exact method of extrapolation is  $\text{Measured SAR} \times 10^{(-\text{drift}/10)}$ . The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.
- 2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.
- 3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

11 PHOTOS

WLAN



Host Laptop - ThinkPad X61 series





Antenna Location



DUT Location

