Measurements on PCM6

**Transient Absorption**

**Structure of data: Excitation wavelength – Probe range – full beam power – power through 2mm pinhole**

9th December 2016

1100nm – NIR – 6.8 mW – 1.69 mW

1100nm – VIS – 6.9 mW – 1.69 mW

1100nm – NIR – 7 mW – 1.64 mW

700nm – NIR – 3.7 mW – 1.53 mW

700nm – VIS – 3.8 mW – 1.54 mW

16th January 2017

1000nm – NIR – 6.9mW – 1.68 mW

1000nm – VIS – 6.6mW – 1.67 mW

700nm – NIR – 3.7mW – 1.61 mW

24th January 2017

550nm – NIR – 1.49 mW – 0.44 mW

550nm – VIS – 1.41 mW – 0.42mW

900nm – NIR – 9.4mW – 3.2mW

900nm – VIS – 9.5 mW – 3.2 mW

900nm – VIS – 4.1 mW – 1.5 mW

850nm – VIS – 7.1 mW – 2.66 mW

850nm – NIR – 7.3 mW – 2.64 mW

700nm – NIR – 6.5 mW – 2.94 mW

700nm – VIS – 6.7 mW – 2.95 mW

1st February 2017

700nm – NIR – 1.82 mW – 0.71 mW

700nm – VIS – 1.8 mW – 0.78 mW

2nd February 2017

750nm - NIR – 1.58 mW – 0.63 mW

750nm – VIS – 1.56 mW – 0.64 mW

800nm – NIR – 1.41mW – 0.57 mW

800nm – VIS – 1.34 mW – 0.55 mW

3rd Aprile 2017

700nm – NIR – 2.43 mW – 1.11 mW

800nm – NIR – 6.8 mW – 2.93 mW

4th April 2017

700nm – VIS – 2.34 mW – 0.99 mW

900nm – VIS – 7.4 mW – 3.0 mW

950nm – VIS – 16.2 mW – 5.8 mW

11th April 2017

950nm – VIS – 9.7 mW – 3.1 mW

950nm – VIS – 16.0 mW – 4.9 mW

950nm – NIR – 15.6 mW – 4.8 mW

24th April 2017

620nm – VIS – 1.8 mW – 0.4 mW

620nm – VIS – 3.2 mW – 0.6 mW

650nm – VIS – 6.6 mW – 2.8 mW

650nm – VIS – 1.74 mW – 0.72 mW

650nm – VIS – 8.9 mW – 3.9 mW

25th April 2017

650nm – VIS – 8.7 mW – 3.8 mW

675nm – VIS – 2.1 mW – 0.96 mW

675nm – VIS – 8.1 mW – 3.8 mW

675nm – VIS – 10.8 mW – 5.2 mW

1100nm – VIS – 8.0 mW – 2.31 mW

1100nm – VIS – 32 mW – 5.4 mW

800nm – VIS – 5.9 mW – 2.48 mW

800nm – VIS – 9.6 mW – 4.1 mW

26th April 2017

700nm – VIS – 9.3 mW – 4.5 mW

700nm – VIS – 2.47 mW – 1.10 mW (change of power through the scan)

750nm – VIS – 8.1 mW – 3.6 mW

750nm – VIS – 5.0 mW – 2.1 mW

1000nm – VIS – 6.2 mW – 1.68 mW

850nm – VIS – 9.0 mW – 3.5 mW

850nm – VIS – 4.1 mW – 1.61 mW

600nm – VIS – 0.83 mW – 0.20 mW

600nm – VIS – 1.50 mW – 0.34 mW

580nm – VIS – 1.60 mW – 0.44 mW

580nm – VIS – 0.85 mW – 0.22 mW

4th May 2017

550nm – NIR – 0.94 mW – 0.24 mW

550nm – NIR – 3.4 mW – 0.86 mW

600nm – NIR – 2.22 mW – 0.56 mW

600nm – NIR – 2.24 mW – 0.59 mW

700nm – NIR – 9.4 mW – 4.8 mW

750nm – NIR – 8.0 mW – 3.8 mW

800nm – NIR – 6.8 mW – 3.1 mW

850nm – NIR – 6.4 mW – 2.59 mW

11th June 2017

1000nm – NIR – 5.7 mW – 1.48 mW

600nm – NIR – 1.65 mW – 0.54 mW

12th June 2017

950nm – NIR – 7.9 mW – 2.5 mW

950nm – NIR – 12.7 mW – 4.1 mW

900nm – NIR – 8.2 mW – 2.78 mW

900nm – NIR – 5.0 mW – 1.65 mW

1000nm – NIR – 5.9 mW – 1.69 mW

1100nm – NIR – 6.2 mW – 1.68 mW

13th June 2017

700nm – NIR – 6.6 mW - 3.1 mW

700nm – VIS – 6.7 mW – 3.1 mW

700nm – RVIS – 6.7 mW – 3.2 mW

800nm – RVIS – 7.4 mW – 3.1 mW

900nm – RVIS – 8.4 mW – 2.9 mW

600nm – RVIS – 1.75 mW – 0.56 mW

500nm – RVIS – 0.64 mW – 0.36 mW

500nm – VIS – 0.67 mW – 0.37 mW

500nm – NIR – 0.6 mW – 0.36 mW

400nm – NIR – 1.14 mW – 0.73 mW

450nm – NIR – 0.9 mW – 0.55 mW

16th June 2017

450nm – NIR – 0.82 mW - 0.5 mW [WRONG SIDE]

600nm – NIR – 1.74 mW - 0.54 mW [WRONG SIDE]

500nm – NIR – 1.79 mW – 0.86 mW [WRONG SIDE]

700nm – NIR – 6.5 mW – 3.1 mW [WRONG SIDE]

700nm – NIR – 6.5 mW – 3.1 mW [WRONG SIDE]

700nm – NIR – 6.5 mW – 3.1 mW

450nm – NIR – 0.73 mW – 0.42 mW

400nm – NIR – 0.82 mW - 0.51 mW

500nm – NIR – 1.89 mW – 0.93 mW

425nm – NIR – 0.77 mW – 0.47 mW

400nm – NIR – 0.43 mW – 0.27 mW

425nm – NIR – 0.45 mW – 0.27 mW

375nm – NIR – 0.67 mW – 0.39 mW

450nm – NIR – 0.52 mW - 0.33 mW

400nm – NIR – 0.59 mW – 0.36 mW

375nm – NIR – 0.50 mW – 0.27 mW

700nm – NIR – 1.79 mW – 0.83 mW

29th August 2017

700nm – VIS – 4.1 mW – 2.15 mW

700nm – NIR – 4.2 mW – 2.05 mW

Companion samples measurements: CM4

18th November 2016

700nm – VIS – 2 mW – 0.7 mW

570nm – VIS – 1 mW - ?

30th January 2017

[thincrystal]

600nm – VIS – 1.09 mW – 0.28 mW (pol1)

600nm – VIS – 1.14 mW – 0.28 mW (pol2)

650nm – VIS – 4 mW - ? (pol2)

650nm – VIS – 3.9 mW – ? (pol1)

700nm – VIS – 7.4 mW - ? (pol1)

700nm – VIS – 4.1 mW - ? (pol1)

31th January 2017

[thincrystal]

700nm – VIS – 2.34 mW - ? (pol1)

750nm – VIS – 1.98 mW - ? (pol1)

750nm – VIS – 22.6 mW - ? (pol1)

2nd May 2017

Probe Not in perfect focus

550nm – VIS – 0.97 mW – 0.21 mW

550nm – VIS – 3.5 mW – 0.85 mW

580nm – VIS – 2.93 mW – 0.77 mW

580nm – VIS – 0.75 mW – 0.20 mW

600nm – VIS – 0.64 mW – 0.16 mW

Refocused

600nm – VIS – 0.66 mW – 0.16 mW

600nm – VIS – 0.78 mW (0.62 mW) – 0.29 mW (0.14 mW)

600nm – VIS – 0.62 mW – 0.14 mW

3rd May 2017

600nm – VIS – 0.62 mW – 0.14 mW

600nm – VIS – 2.17 mW – 0.55 mW

550nm – VIS – 3.3 mW – 0.83 mW

550nm – VIS – 0.86 mW – 0.22 mW

700nm – VIS – 12.1 mW – 5.6 mW (no LP filter)

700nm – VIS – 10.1 mW – 4.6 mW

750nm – VIS – 17.8 mW – 7.8 mW

675nm – VIS – 9.3 mW – 4.0 mW

800nm – VIS – 15.5 mW – 6.4 mW

550nm – VIS – 2.96 mW – 0.76 mW

500nm – VIS – 2.17 mW – 1.17 mW

500nm – VIS – 0.63 mW – 0.34 mW

Companion samples measurements: PM7

16th December 2016

1100nm – NIR – 6.6 mW – 1.85 mW

1100nm – VIS – 6.6 mW – 1.85 mW

700nm – VIS – 4.2 mW – 1.78 mW

700nm – NIR – 4.2 mW – 1.74 mW

17th June 2017

700nm – NIR – 3.3 mW – 1.55 mW

600nm – NIR – 2.07 mW – 0.59 mW

400nm – NIR – 0.57 mW – 0.39 mW

450nm – NIR – 0.52 mW – 0.32 mW

375nm – NIR – 0.64 mW – 0.38 mW

500nm – NIR – 0.62 mW – 0.35 mW

Ordered list of TA measurements on PCM6

NIR

1100nm

* 6.8 mW – 1.69 mW [09/12/16]
* 7 mW – 1.64 mW [09/12/16]
* 6.2 mW – 1.68 mW [13/06/17]

1000nm

* 6.9 mW – 1.68 mW [16/01/17]
* 5.7 mW – 1.48 mW [11/06/17]

950nm

* 15.6 mW – 4.8 mW [11/04/17]
* 7.9 mW – 2.5 mW [12/06/17]
* 12.7 mW – 4.1 mW [12/06/17]

900nm

* 9.4 mW – 3.2 mW [24/01/17]
* 8.2 mW – 2.78 mW [12/06/17]
* 5.0 mW – 1.65 mW [12/06/17]

850nm

* 7.3 mW – 2.64 mW [24/01/17]
* 6.4 mW – 2.59 mW [04/05/17]

800nm

* 1.41 mW – 0.57 mW [02/02/17]
* 6.8 mW – 2.93 mW [03/04/17]
* 6.8 mW – 3.1 mW [04/05/17]

750nm

* 1.58 mW – 0.63 mW [02/02/17]
* 8 mW – 3.8 mW [04/05/17]

700nm

* 3.7 mW – 1.53 mW [09/12/16]
* 3.7 mW – 1.61 mW [16/01/17]
* 6.5 mW – 2.94 mW [24/01/17]
* 1.82 mW – 0.71 mW [01/02/17]
* 2.43 mW – 1.11 mW [03/04/17]
* 9.4 mW – 4.8 mW [04/05/17]
* 6.6 mW – 3.1 mW [13/06/17]
* ~~6.5 mW – 3.1 mW [16/06/17]~~ (WRONG SIDE)
* ~~6.5 mW – 3.1 mW [16/06/17]~~ (WRONG SIDE)
* 6.5 mW – 3.1 mW [16/06/17]
* 1.79 mW - 0.83 mW [16/06/17]

675nm

* NONE

650nm

* NONE

600nm

* 2.22 mW – 0.56 mW [04/05/17]
* 2.24 mW – 0.59 mW [04/05/17]
* 1.65 mW – 0.54 mW [11/06/17]
* ~~1.74 mW – 0.54 mW [16/06/17]~~ (WRONG SIDE)

580nm

* NONE

550nm

* 1.49 mW – 0.44 mW [24/01/17]
* 0.94 mW – 0.24 mW [04/05/17]
* 3.4 mW – 0.86 mW [04/05/17]

500nm

* 0.6 mW – 0.36 mW [13/06/17]
* ~~1.79 mW – 0.86 mW [16/06/17]~~ (WRONG SIDE)
* 1.89 mW – 0.93 mW [16/06/17]

450nm

* 0.9 mW – 0.55 mW [13/06/17]
* ~~0.82 mW – 0.5 mW [16/06/17]~~ (WRONG SIDE)
* 0.73 mW – 0.42 mW [16/06/17]
* 0.52 mW – 0.33 mW [16/06/17]

425nm

* 0.77 mW – 0.47 mW [16/06/17]
* 0.45 mW – 0.27 mW [16/06/17]

400nm

* 1.14 mW – 0.73 mW [13/06/17]
* 0.82 mW – 0.51 mW [16/06/17]
* 0.43 mW – 0.27 mW [16/06/17]
* 0.59 mW – 0.36 mW [16/06/17]

375nm

* 0.67 mW – 0.39 mW [16/06/17]
* 0.5 mW – 0.27 mW [16/06/17]

VIS

1100nm

* 6.9 mW – 1.69 mW [09/12/16]
* 8 mW – 2.31 mW [25/04/17]
* 32 mW – 5.4 mW [25/04/17]

1000nm

* 6.6 mW – 1.67 mW [16/01/17]
* 6.2 mW – 1.68 mW [26/04/17]

950nm

* 16.2 mW – 5.8 mW [04/04/17]
* 9.7 mW – 3.1 mW [11/04/17]
* 16 mW – 4.9 mW [11/04/17]

900nm

* 9.5 mW – 3.2 mW [24/01/17]
* 4.1 mW – 1.5 mW [24/01/17]
* 7.4 mW – 3 mW [04/04/17]

850nm

* 7.1 mW – 2.66 mW [24/01/17]
* 9 mW – 3.5 mW [26/04/17]
* 4.1 mW – 1.61 mW [26/04/17]

800nm

* 1.34 mW – 0.55 mW [02/02/17]
* 5.9 mW – 2.48 mW [25/04/17]
* 9.6 mW – 4.1 mW [25/04/17]

750nm

* 1.56 mW – 0.64 mW [02/02/17]
* 8.1 mW – 3.6 mW [26/04/17]
* 5 mW – 2.1 mW [26/04/17]

700nm

* 3.8 mW – 1.54 mW [09/12/16]
* 6.7 mW – 2.95 mW [24/01/17]
* 1.8 mW – 0.78 mW [01/02/17]
* 2.34 mW – 0.99 mW [04/04/17]
* 9.3 mW – 4.5 mW [26/04/17]
* 2.47 mW – 1.1 mW [26/04/17] (change of power during scan)
* 6.7 mW – 3.1 mW [13/06/17]
* 4.1 mW – 2.15 mW [29/08/17]

675nm

* 2.1 mW – 0.96 mW [25/04/17]
* 8.1 mW – 3.8 mW [25/04/17]
* 10.8 mW – 5.2 mW [25/04/17]

650nm

* 6.6 mW – 2.8 mW [24/04/17]
* 1.74 mW – 0.72 mW [24/04/17]
* 8.9 mW – 3.9 mW [24/04/17]
* 8.7 mW – 3.8 mW [25/04/17]

620nm

* 1.8 mW – 0.4 mW [24/05/17]
* 3.2 mW – 0.6 mW [24/05/17]

600nm

* 0.83 mW – 0.2 mW [26/04/17]
* 1.5 mW – 0.34 mW [26/04/17]

580nm

* 1.6 mW – 0.44 mW [26/04/17]
* 0.85 mW – 0.22 mW [26/04/17]

550nm

* 1.41 mW – 0.42 mW [24/01/17]

500nm

* 0.67 mW – 0.37 mW [13/06/17]