

# SPR data book

Flask concentrations: A: 0.0601 g/ml D: 0.2406 g/ml  
 B: 0.120528 g/ml E: 0.7011 g/ml  
 C: 0.18006 g/ml F: 0 g/ml

LED: S91E Orange light

Flask F.		Flask B		Flask D	
Pol Angle	V	Pol Angle	V	Pol Angle	V
0°	0.24	0°	0.20 0.16	0°	0.08
10°	0.27	10°	0.26 0.20	10°	0.12
20°	0.28	20°	0.31 0.24	20°	0.15
30°	<u>0.29</u>	30°	<u>0.34</u> 0.27	30°	0.19
40°	0.27	40°	0.27 <u>0.28</u>	40°	0.22
50°	0.24	50°	0.27 0.27	50°	0.23
60°	0.20	60°	0.24 0.25	60°	<u>0.24</u>
70°	0.16	70°	0.21 0.22	70°	0.21
80°	0.12	80°	0.17 0.18	80°	0.18
90°	0.7	90°	0.12 0.13	90°	0.15

}  $G_0^\circ \pm 4^\circ$

LED: 405 E Purple light

Flask F.		Flask B		Flask D	
Pol Angle	V	Pol Angle	V	Pol Angle	V
0°	0.80	0°	0.24	0°	0.5
10°	0.91	10°	0.38	10°	0.4
20°	0.97	20°	0.53	20°	0.8
30°	<u>0.97</u>	30°	0.70	30°	0.15
40°	0.91	40°	0.82	40°	0.26
50°	0.81	50°	0.91	50°	0.38
60°	0.67	60°	<u>0.95</u>	60°	0.50
70°	0.50	70°	0.93	70°	0.60
80°	0.34	80°	0.85	80°	0.68
90°	0.20	90°	0.73	90°	<u>0.72</u>
				⋮	⋮
				110	0.68

465 E Blue light

Flask F.		Flask B		Flask D	
Pol Angle	V	Pol Angle	V	Pol Angle	V
0°	0.44	0°	0.17	0°	0.05
10°	0.51	10°	0.24	10°	0.13
20°	<u>0.54</u>	20°	0.31	20°	0.25
30°	<u>0.54</u>	30°	0.37	30°	0.4
40°	0.51	40°	0.41	40°	0.54
50°	0.45	50°	<u>0.43</u> 48°, 52°	50°	0.68
60°	0.37	60°	0.42	60°	0.76
70°	0.28	70°	0.39	70°	0.78
80°	0.18	80°	0.33	80°	<u>0.83</u> 76°
90°	0.10	90°	0.26	90°	0.82
				100°	0.73

528 HP green light

Flask F.		Flask B		Flask D	
Pol Angle	V	Pol Angle	V	Pol Angle	V
0°	0.15	0°	0.41	0°	0.13
10°	0.17	10°	0.56	10°	0.25
20°	0.17	20°	0.69	20°	0.38
30°	<u>0.18</u>	30°	0.80	30°	0.52
40°	0.16	40°	<u>0.85</u> 42°	40°	0.61
50°	0.15	50°	0.85	50°	0.69
60°	0.12	60°	0.81	60°	0.76
70°	0.09	70°	0.71	70°	<u>0.79</u>
80°	0.06	80°	0.59	80°	0.75
90°	0.03	90°	0.44	90°	0.67
				100°	0.52

631E bright red

Flask F.		Flask B		Flask D	
Pol Angle	V	Pol Angle	V	Pol Angle	V
0°	0.14	0°	0.57	0°	0.15
10°	0.16	10°	0.74	10°	0.22
20°	0.17	20°	0.86	20°	0.28
30°	<u>0.17</u> 30-32°	30°	0.93	30°	0.35
40°	0.16	40°	<u>0.97</u> 44°	40°	0.39
50°	0.14	50°	0.95	50°	<u>0.41</u> 50-52°
60°	0.12	60°	0.85	60°	0.39
70°	0.09	70°	0.73	70°	0.33
80°	0.06	80°	0.58	80°	0.31
90°	0.03	90°	0.40	90°	0.25

370E white light

Flask F.	
Pol Angle	V
0°	0.03
10°	0.03
20°	0.03
30°	0.03
40°	0.03
50°	0.02
60°	0.02
70°	0.02
80°	0.01
90°	0.01

Flask B	
Pol Angle	V
0°	0.01
10°	0.01
20°	0.01
30°	0.01
40°	0.01
50°	0.01
60°	0.01
70°	0.01
80°	0.01
90°	0.01

Flask D	
Pol Angle	V
0°	
10°	
20°	
30°	
40°	
50°	
60°	
70°	
80°	
90°	

631E dim red

Flask F.	
Pol Angle	V
0°	1.31
10°	1.50
20°	1.61
30°	<u>1.62</u>
40°	1.53
50°	1.37
60°	1.14
70°	0.87
80°	0.59
90°	0.34

Flask B	
Pol Angle	V
0°	1
10°	1.22
20°	1.38
30°	<u>1.47</u> 34° 1.48
40°	1.46
50°	1.38
60°	1.22
70°	0.99
80°	0.74
90°	0.50

Flask D	
Pol Angle	V
0°	0.70
10°	0.96
20°	1.17
30°	1.30
40°	<u>1.37</u>
50°	1.36
60°	1.28
70°	1.12
80°	0.90
90°	0.67