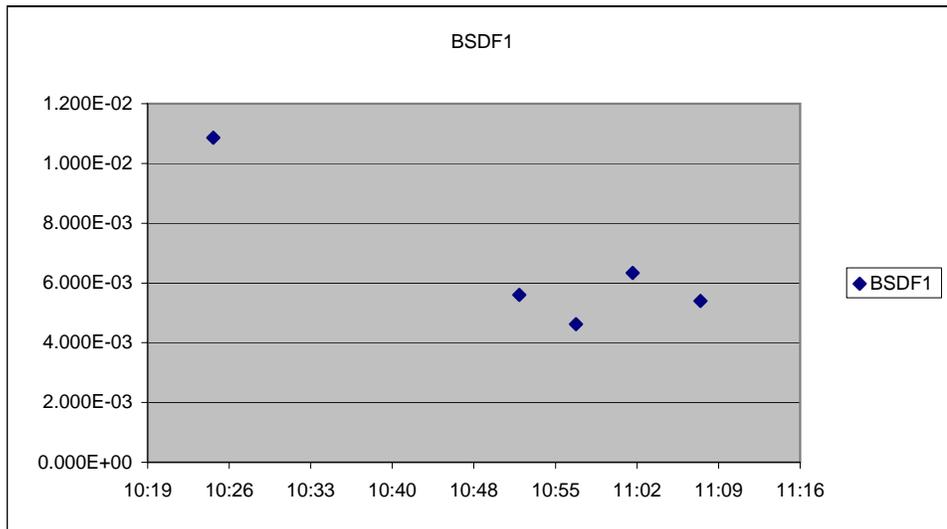
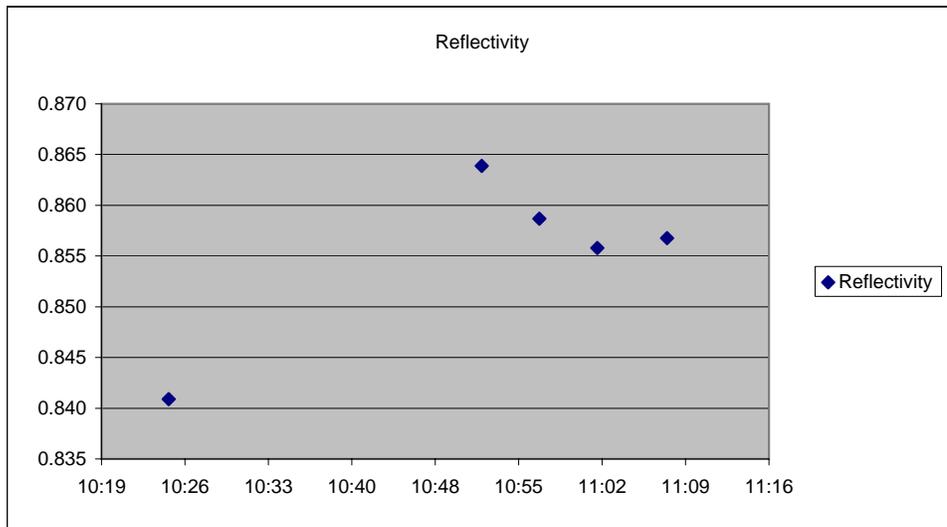
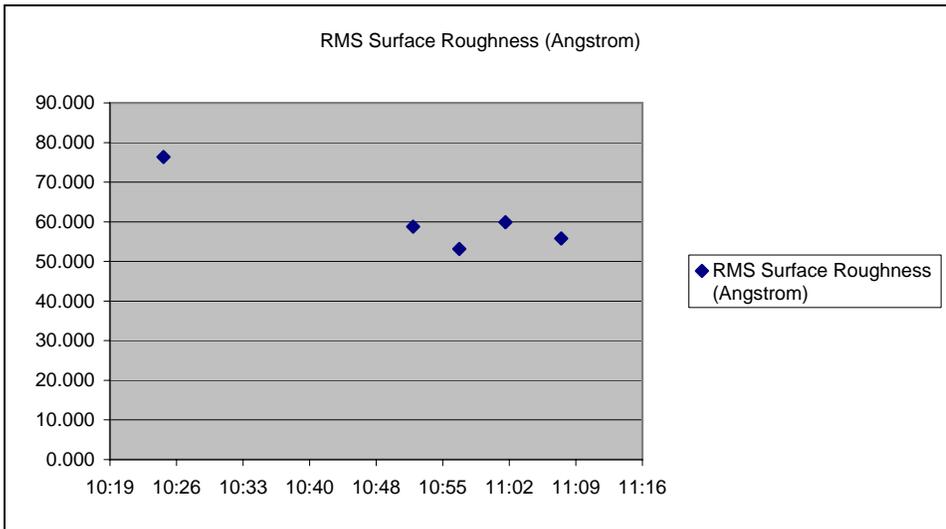
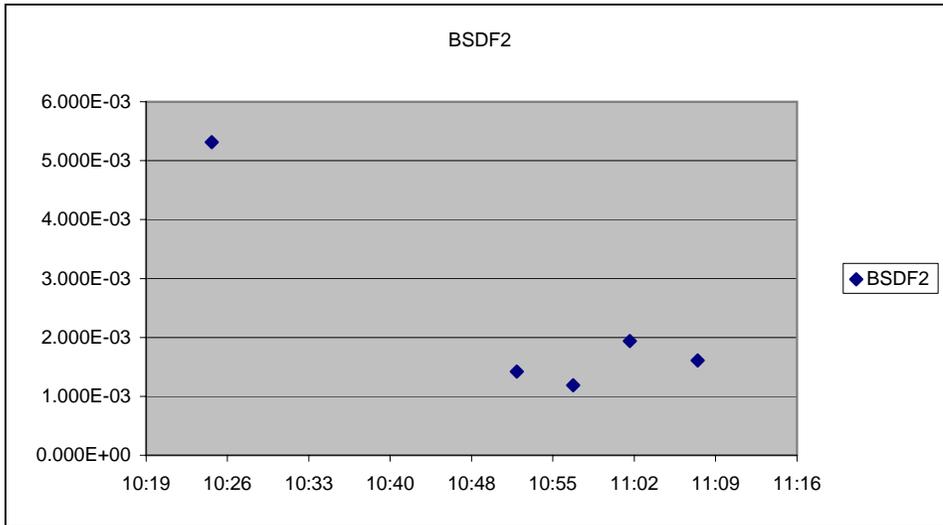


## Reflectivity measurement - WHT Primary after CO2 cleaning to check uscan reflectivity meter behaviour

Equipment:	uscan reflectometer	
Mirror:	WHT Primary mirror	
Person:	Tibor Agocs	
Date:	26/02/2008	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1





**WHT Primary mirror before the CO2 cleaning**

10:25

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
9	1.13E-02	5.12E-03	0.834	78.4	10:25:53	02-26-2008
10	1.13E-02	5.11E-03	0.832	78.5	10:25:58	02-26-2008
11	1.13E-02	5.11E-03	0.83	78.8	10:26:03	02-26-2008
12	1.11E-02	5.47E-03	0.839	77.3	10:26:14	02-26-2008
13	1.10E-02	5.44E-03	0.849	76.5	10:26:19	02-26-2008
14	1.10E-02	5.44E-03	0.848	76.5	10:26:24	02-26-2008
15	1.02E-02	5.48E-03	0.838	73.6	10:26:32	02-26-2008
16	1.03E-02	5.49E-03	0.851	73.6	10:26:37	02-26-2008
17	1.03E-02	5.15E-03	0.847	73.8	10:26:41	02-26-2008
<b>average</b>	<b>1.086E-02</b>	<b>5.312E-03</b>	<b>0.841</b>	<b>76.333</b>		
<b>standard dev</b>	<b>4.750E-04</b>	<b>1.790E-04</b>	<b>0.008</b>	<b>2.162</b>		

**WHT Primary mirror immediately after the CO2 cleaning**

10:52

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
30	6.06E-03	1.23E-03	0.859	64.4	10:52:51	02-26-2008
31	6.05E-03	1.23E-03	0.86	64.3	10:52:55	02-26-2008
32	6.06E-03	1.24E-03	0.86	64.2	10:53:00	02-26-2008
33	6.46E-03	1.94E-03	0.86	61.1	10:53:08	02-26-2008
34	6.49E-03	1.92E-03	0.862	61.3	10:53:13	02-26-2008
35	6.52E-03	1.93E-03	0.859	61.6	10:53:17	02-26-2008
36	4.25E-03	1.10E-03	0.87	50.6	10:53:25	02-26-2008
37	4.26E-03	1.10E-03	0.868	50.7	10:53:30	02-26-2008
38	4.26E-03	1.10E-03	0.877	50.4	10:53:35	02-26-2008
<b>average</b>	<b>5.600E-03</b>	<b>1.420E-03</b>	<b>0.864</b>	<b>58.733</b>		
<b>standard dev</b>	<b>1.026E-03</b>	<b>3.853E-04</b>	<b>0.006</b>	<b>6.260</b>		

**WHT Primary mirror 5min after the CO2 cleaning**

10:57

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
39	4.20E-03	1.05E-03	0.857	51	10:57:37	02-26-2008
40	4.21E-03	1.06E-03	0.857	51	10:57:42	02-26-2008
41	4.21E-03	1.06E-03	0.858	51	10:57:47	02-26-2008
42	4.61E-03	1.25E-03	0.855	52.7	10:57:54	02-26-2008
43	4.64E-03	1.26E-03	0.857	52.8	10:57:59	02-26-2008
44	4.64E-03	1.26E-03	0.861	52.7	10:58:04	02-26-2008
45	5.00E-03	1.27E-03	0.86	55.4	10:58:11	02-26-2008
46	5.02E-03	1.26E-03	0.862	55.6	10:58:15	02-26-2008
47	5.05E-03	1.24E-03	0.861	56	10:58:20	02-26-2008
<b>average</b>	<b>4.620E-03</b>	<b>1.189E-03</b>	<b>0.859</b>	<b>53.133</b>		
<b>standard dev</b>	<b>3.549E-04</b>	<b>1.004E-04</b>	<b>0.002</b>	<b>2.049</b>		

**WHT Primary mirror 10min after the CO2 cleaning**

11:02

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
48	3.50E-03	8.41E-04	0.862	46.8	11:02:03	02-26-2008
49	3.49E-03	8.39E-04	0.861	46.8	11:02:08	02-26-2008
50	3.49E-03	8.37E-04	0.861	46.8	11:02:12	02-26-2008
51	9.06E-03	3.00E-03	0.848	71.9	11:02:22	02-26-2008
52	9.04E-03	3.01E-03	0.846	71.8	11:02:26	02-26-2008
53	9.04E-03	3.00E-03	0.85	71.7	11:02:31	02-26-2008
54	6.44E-03	1.99E-03	0.856	60.9	11:02:39	02-26-2008
55	6.47E-03	1.96E-03	0.859	61.1	11:02:44	02-26-2008
56	6.46E-03	1.94E-03	0.859	61.1	11:02:48	02-26-2008
<b>average</b>	<b>6.333E-03</b>	<b>1.937E-03</b>	<b>0.856</b>	<b>59.878</b>		
<b>standard dev</b>	<b>2.405E-03</b>	<b>9.387E-04</b>	<b>0.006</b>	<b>10.860</b>		

**WHT Primary mirror 15min after the CO2 cleaning**

11:08

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
57	3.95E-03	1.01E-03	0.859	49.2	11:08:10	02-26-2008
58	3.97E-03	1.01E-03	0.861	49.2	11:08:14	02-26-2008
59	3.98E-03	1.02E-03	0.866	49.2	11:08:19	02-26-2008
60	7.30E-03	2.34E-03	0.851	64.7	11:08:26	02-26-2008
61	7.33E-03	2.34E-03	0.855	64.7	11:08:31	02-26-2008
62	7.33E-03	2.35E-03	0.856	64.7	11:08:35	02-26-2008
63	4.92E-03	1.47E-03	0.858	53.5	11:08:42	02-26-2008
64	4.92E-03	1.47E-03	0.859	53.4	11:08:47	02-26-2008
65	4.92E-03	1.47E-03	0.846	53.9	11:08:52	02-26-2008
<b>average</b>	<b>5.403E-03</b>	<b>1.608E-03</b>	<b>0.857</b>	<b>55.833</b>		
<b>standard dev</b>	<b>1.495E-03</b>	<b>5.847E-04</b>	<b>0.006</b>	<b>6.919</b>		

Notes:

RMS - Root Mean Square surface roughness in Angstrom,

BSDF - Bidirectional scatter distribution function, it is equal to the scattered power per unit solid angle