# Log Sheet

m	weet a	ovnoviw and ide tife	atout time	and time	duration		rogulation t	data	al a t	Ma a w		olasti .	65
		experiment_identifier	start_time	end_time		-	regulation_temperature			monsum		elasticpeak	
123400		MBP+H2O 297K			1800.01	296.421		1.22701E+07		1.43123E+06	795.122		-1443
123401		MBP+H2O 297K		22-Jun-15 13:13:05	1800.01	296.155	296.998	1.22666E+07		1.43116E+06	795.083		-1443
123402	5	MBP+H2O cooling to 150 K	22-Jun-15 13:13:09	22-Jun-15 13:23:30	600.012	287.788	242.367	4.0668E+06	6777.86	478003	796.655	295	-1443
123403	5	MBP+H2O cooling to 150 K	22-Jun-15 13:23:32	22-Jun-15 13:33:52	600.012	270.38	220.933	4.03079E+06	6717.84	478211	797.002	295	-1443
123404	5	MBP+H2O cooling to 150 K	22-Jun-15 13:33:55	22-Jun-15 13:44:15	600.012	250.362	198.931	4.02418E+06	6706.82	477546	795.894	295	-1443
123405	5	MBP+H2O cooling to 150 K	22-Jun-15 13:44:18	22-Jun-15 13:54:38	600.012	229.96	179.435	4.0055E+06	6675.7	477752	796.237	295	-1443
123406	5	MBP+H2O cooling to 150 K	22-Jun-15 13:54:41	22-Jun-15 14:05:01	600.012	209.91	162.057	3.96168E+06	6602.66	479482	799.121	295	-1443
123407	5	MBP+H2O cooling to 150 K	22-Jun-15 14:05:03	22-Jun-15 14:15:24	600.012	190.925	146.264	3.92853E+06	6547.41	479558	799.247	295	-1443
123408	5	MBP+H2O cooling to 150 K	22-Jun-15 14:15:26	22-Jun-15 14:25:46	600.012	173.276	131.821	3.90616E+06	6510.14	477304	795.491	295	-1443
123409	5	MBP+H2O cooling to 150 K	22-Jun-15 14:25:49	22-Jun-15 14:36:09	600.012	159.209	141.685	3.89056E+06	6484.13	476898	794.814	295	-1443
123410	5	MBP+H2O cooling to 150 K	22-Jun-15 14:36:11	22-Jun-15 14:46:32	600.012	152.061	147.19	3.87881E+06	6464.55	474891	791.469	295	-1443
123411	5	MBP+H2O cooling to 150 K	22-Jun-15 14:46:34	22-Jun-15 14:56:54	600.012	149.847	150.002	3.86419E+06	6440.19	478892	798.137	295	-1443
123412	5	MBP+H2O cooling to 150 K	22-Jun-15 14:56:57	22-Jun-15 15:07:17	600.012	149.443	150	3.85989E+06	6433.01	479527	799.196	295	-1443
123413	5	MBP+H2O cooling to 150 K	22-Jun-15 15:07:19	22-Jun-15 15:17:40	600.012	149.521	149.999	3.86682E+06	6444.57	478856	798.077	295	-1443
123414	5	MBP+H2O cooling to 150 K	22-Jun-15 15:17:42	22-Jun-15 15:28:02	600.012	149.675	150.001	3.87025E+06	6450.29	479494	799.141	295	-1443
123415	5	MBP+H2O cooling to 150 K	22-Jun-15 15:28:05	22-Jun-15 15:38:25	600.012	149.804	149.998	3.86775E+06	6446.12	479003	798.323	295	-1443
123416		MBP+H2O cooling to 150 K		22-Jun-15 15:41:30	162.026	149.835		1.04337E+06		128667	794.116		-1443
123417		MBP+H2O 150 K		22-Jun-15 16:11:58	1800.01	149.99	149.998			1.43488E+06	797.152		-1443
123418		MBP+H2O 150 K	22-Jun-15 16:12:01		1800.01	150.033	150.004	1.16177E+07		1.43703E+06	798.347		-1443
123419		MBP+H2O 150 K		22-Jun-15 17:12:44	1800.01	150.049				1.43223E+06	795.681		-1443
		MBP+H2O 150 K		22-Jun-15 17:12:44 22-Jun-15 17:43:07		150.049							
123420					1800.01					1.43552E+06	797.509		-1443
123421		MBP+H2O 150 K		22-Jun-15 18:13:30	1800.01	150.067				1.43351E+06	796.389		-1443
123422		MBP+H2O 150 K		22-Jun-15 18:34:53	1259.84	150.072				1.00472E+06	797.494		-1443
123423		MBP+Mal+D2O 297K		22-Jun-15 20:26:58	1800.01	295.956	296.998			1.43319E+06	796.214		-1443
123424		MBP+Mal+D2O 297K		22-Jun-15 20:57:21	1800.01	295.984	297.001			1.43207E+06	795.591		-1443
123425		MBP+Mal+D2O 297K		22-Jun-15 21:27:44	1800.01	295.988		4.08622E+06			795.89		-1443
123426		MBP+Mal+D2O 297K	22-Jun-15 21:27:46		1800.01	295.976	296.998			1.43776E+06	798.752		-1443
123427	5	MBP+Mal+D2O 297K	22-Jun-15 21:58:09	22-Jun-15 22:28:29	1800.01	295.975	297.001	4.09066E+06	2272.58	1.43204E+06	795.574	295	-1443
123428	5	MBP+Mal+D2O 297K	22-Jun-15 22:28:32	22-Jun-15 22:58:52	1800.01	295.965	296.998	4.09766E+06	2276.47	1.43874E+06	799.293	295	-1443
123429	5	MBP+Mal+D2O cooling to 150 K	22-Jun-15 22:58:55	22-Jun-15 23:09:15	600.012	286.694	238.208	1.36574E+06	2276.18	479689	799.466	295	-1443
123430	5	MBP+Mal+D2O cooling to 150 K	22-Jun-15 23:09:18	22-Jun-15 23:19:38	600.012	267.179	215.089	1.3519E+06	2253.11	478541	797.553	295	-1443
123431	5	MBP+Mal+D2O cooling to 150 K	22-Jun-15 23:19:40	22-Jun-15 23:30:01	600.012	245.475	194.779	1.344E+06	2239.95	477247	795.396	295	-1443
123432	5	MBP+Mal+D2O cooling to 150 K	22-Jun-15 23:30:03	22-Jun-15 23:40:23	600.012	224.397	176.264	1.33579E+06	2226.28	477778	796.281	295	-1443
123433	5	MBP+Mal+D2O cooling to 150 K	22-Jun-15 23:40:25	22-Jun-15 23:50:46	600.012	204.175	159.056	1.31806E+06	2196.71	478986	798.294	295	-1443
123434	5	MBP+Mal+D2O cooling to 150 K	22-Jun-15 23:50:48	23-Jun-15 00:01:08	600.012	185.396	143.548	1.30872E+06	2181.16	478253	797.073	295	-1443
123435	5	MBP+Mal+D2O cooling to 150 K	23-Jun-15 00:01:10	23-Jun-15 00:11:31	600.012	167.774	138.032	1.30016E+06	2166.9	480390	800.634	295	-1443
123436	5	MBP+Mal+D2O cooling to 150 K	23-Jun-15 00:11:33	23-Jun-15 00:21:53	600.012	156.1	143.433	1.29278E+06	2154.59	475120	791.851	295	-1443
123437	5	MBP+Mal+D2O cooling to 150 K	23-Jun-15 00:21:56	23-Jun-15 00:32:16	600.012	150.801		1.29268E+06		479798	799.648		-1443
123438		MBP+Mal+D2O cooling to 150 K			600.012	149.581		1.29001E+06		475266	792.094		-1443
123439		MBP+Mal+D2O 150 K	23-Jun-15 00:42:41		1800.01	149.766				1.43498E+06	797.209		-1443
123440		MBP+Mal+D2O 150 K		23-Jun-15 01:43:24	1800.01	149.98				1.43522E+06	797.338		-1443
123441										1.43527E+06			
		MBP+Mal+D2O 150 K		23-Jun-15 02:13:46	1800.01	150.037	140.000				797.368		-1443
123442		MBP+Mal+D2O 150 K		23-Jun-15 02:44:09	1800.01	150.054				1.35543E+06	753.013		-1443
123443		MBP+Mal+D2O 150 K		23-Jun-15 03:14:32	1800.01	150.058		3.87655E+06			799.045		-1443
123444		MBP+Mal+D2O 150 K		23-Jun-15 03:44:54	1800.01	150.066		3.87915E+06		1.435E+06	797.216		-1443
123445		MBP+Mal+D2O 150 K		23-Jun-15 04:15:17	1800.01	150.068				1.43708E+06	798.375		-1443
123446	5	MBP+Mal+D2O 150 K	23-Jun-15 04:15:19	23-Jun-15 04:45:40	1800.01	150.072	149.997	3.87686E+06	2153.8	1.43867E+06	799.259	295	-1443
123447	5	MBP+Mal+D2O 150 K	23-Jun-15 04:45:42	23-Jun-15 05:16:02	1800.01	150.073	150.001	3.87918E+06	2155.09	1.4364E+06	797.993	295	-1443
123448	5	MBP+Mal+D2O 150 K	23-Jun-15 05:16:05	23-Jun-15 05:46:25	1800.01	150.076	150	3.87676E+06	2153.74	1.43424E+06	796.798	295	-1443
123449	5	MBP+Mal+D2O 150 K	23-Jun-15 05:46:27	23-Jun-15 06:16:48	1800.01	150.077	150.001	3.88068E+06	2155.92	1.43946E+06	799.693	295	-1443
123450	5	MBP+Mal+D2O 150 K	23-Jun-15 06:16:50	23-Jun-15 06:47:10	1800.01	150.075	150.001	3.88182E+06	2156.55	1.43339E+06	796.324	295	-1443
123451	5	MBP+Mal+D2O 150 K	23-Jun-15 06:47:13	23-Jun-15 07:17:33	1800.01	150.078	150	3.8825E+06	2156.93	1.4382E+06	798.998	295	-1443
123452	5	MBP+Mal+D2O 150 K	23-Jun-15 07:17:35	23-Jun-15 07:47:56	1800.01	150.078	149.999	3.87913E+06	2155.06	1.44015E+06	800.078	295	-1443
123453	5	MBP+Mal+D2O 150 K	23-Jun-15 07:47:58	23-Jun-15 08:18:18	1800.01	150.081	149.999	3.88066E+06	2155.91	1.43358E+06	796.428	295	-1443
123454	5	MBP+Mal+D2O 150 K	23-Jun-15 08:18:21	23-Jun-15 08:48:41	1800.01	150.078	150	3.88077E+06	2155.97	1.43927E+06	799.589	295	-1443
123455	5	MBP+Mal+D2O 150 K	23-Jun-15 08:48:43	23-Jun-15 09:19:04	1800.01	150.076	150.001	3.8815E+06	2156.37	1.43828E+06	799.041	295	-1443
123456	5	MBP+Mal+D2O 150 K		23-Jun-15 09:49:26	1800.01	150.078	150.001	3.8815E+06	2156.38	1.43329E+06	796.269	295	-1443
123457		Empty 1 - cooling to 150 K	23-Jun-15 10:14:21		600.012	170.446	131.416	97584	162.637	481662	802.754	295	-1443
123458		Empty 1 - cooling to 150 K		23-Jun-15 10:35:04	600.012	155.671	143.815		159.545	477438	795.714		-1443
123459		Empty 1 - cooling to 150 K		23-Jun-15 10:45:26	600.012	150.196	150.004	94520		481164	801.924		-1443
123460		Empty 1 - cooling to 150 K		23-Jun-15 10:46:54	65.982	149.924	150.004		157.528	52941	802.355		-1443
123461		Empty 1 - 150 K		23-Jun-15 11:17:36	1800.01	149.62	150			1.43927E+06	799.587		-1443
123461		Empty 1 - 150 K		23-Jun-15 11:47:59	1800.01	149.02	149.999		156.066	1.43927E+06	799.367		-1443
123463		Empty 4 cooling to 150 K		23-Jun-15 12:11:07	1366.02	150.365	150			1.09201E+06	799.415		-1443
123464		Empty 4 - cooling to 150 K		23-Jun-15 12:41:16		173.14	129.159		139.062	479851	799.735		-1443
123465		Empty 4 - cooling to 150 K		23-Jun-15 12:51:38		156.396	142.933		134.541				-1443
123466		Empty 4 - cooling to 150 K	23-Jun-15 12:51:40		600.012	150.215	150.007		133.671	479867	799.762		-1443
123467		Empty 4 - cooling to 150 K		23-Jun-15 13:03:10	47.1919	149.933	150.005		135.172	37625	797.277		-1443
123468	5	Empty 4 - 150 K	23-Jun-15 13:03:27	23-Jun-15 13:33:47	1800.01	149.508	150.003	240371	133.539	1.4343E+06	796.827	295	-1443
123469	5	Empty 4 - 150 K	23-Jun-15 13:33:50	23-Jun-15 14:04:10	1800.01	149.976	149.998	239265	132.924	1.4353E+06	797.384	295	-1443
123470	5	Empty 4 - 150 K	23-Jun-15 14:05:12	23-Jun-15 14:06:00	27.0687	149.989	150.002	3724	137.576	20506	757.554	295	-1443
123471	5	Empty 4 - 300 K	23-Jun-15 14:48:45	23-Jun-15 15:19:05	1800.01	297.505	296.999	320016	177.786	1.44281E+06	801.556	295	-1443
123472	5	Empty 4 - 300 K	23-Jun-15 15:19:07	23-Jun-15 15:35:36	968.446	296.435	297.002	171684	177.278	773367	798.565	295	-1443
123473	5	MBP+Mal+H20 cooling to 150 K	23-Jun-15 15:53:48	23-Jun-15 16:04:09	600.012	295.555	297.002	3.76984E+06	6282.94	476568	794.264	295	-1443
123474	5	MBP+Mal+H20 cooling to 150 K	23-Jun-15 16:04:11	23-Jun-15 16:14:32	600.012	295.683	297	3.77235E+06	6287.13	478074	796.774	295	-1443
123475	5	MBP+Mal+H20 cooling to 150 K	23-Jun-15 16:14:34	23-Jun-15 16:15:24	29.4208	295.711	297.001	185974	6321.18	23179	787.845	295	-1443
123476		MBP+Mal+H20 cooling to 150 K			14.121	295.719	288.241		6321.23	11222	794.703		-1443
		5 220g to 100 K	12.07.0.02					30202		<b></b>	33		

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123477	5 MBP+Mal+H20 300 K	23-Jun-15 16:18:21	23-Jun-15 16:38:42	1200.01	295.504	297.001	7.54416E+06	6286.74	955174	795.971	295	-1443
123478	5 MBP+Mal+H20 300 K	23-Jun-15 16:38:45	23-Jun-15 16:59:05	1200.01	295.888	297.001	7.54915E+06	6290.89	960710	800.584	295	-1443
123479	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 16:59:08	23-Jun-15 17:09:28	600.012	286.936	238.684	3.75533E+06	6258.76	479007	798.329	295	-1443
123480	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 17:09:31	23-Jun-15 17:19:51	600.012	267.68	214.84	3.67333E+06	6122.1	477428	795.697	295	-1443
123481	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 17:19:54	23-Jun-15 17:30:14	600.012	246.343	194.697	3.64814E+06	6080.11	480725	801.192	295	-1443
123482	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 17:30:17	23-Jun-15 17:40:37	600.012	225.094	176.013	3.63921E+06	6065.23	475844	793.057	295	-1443
123483	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 17:40:39	23-Jun-15 17:51:00	600.012	205.056	158.963	3.61645E+06	6027.29	479701	799.486	295	-1443
123484	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 17:51:02	23-Jun-15 18:01:22	600.012	186.057	143.289	3.59727E+06	5995.34	478367	797.262	295	-1443
123485	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 18:01:25	23-Jun-15 18:11:45	600.012	168.45	137.177	3.57905E+06	5964.96	478997	798.312	295	-1443
123486	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 18:11:47	23-Jun-15 18:22:08	600.012	156.406	143.072	3.59183E+06	5986.26	480081	800.119	295	-1443
123487	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 18:22:10	23-Jun-15 18:32:31	600.012	150.954	150.013	3.58661E+06	5977.56	477276	795.444	295	-1443
123488	5 MBP+Mal+H20 cooling to 150 K	23-Jun-15 18:32:33	23-Jun-15 18:38:31	337.673	149.899	150.005	2.01612E+06	5970.64	269818	799.051	295	-1443
123489	5 MBP+Mal+H20 150 K	23-Jun-15 18:38:40	23-Jun-15 19:09:00	1800.01	149.768	150	1.07425E+07	5968.01	1.43832E+06	799.063	295	-1443
123490	5 MBP+Mal+H20 150 K	23-Jun-15 19:09:03	23-Jun-15 19:39:23	1800.01	150.03	150.002	1.07335E+07	5963.05	1.43926E+06	799.583	295	-1443
123491	5 MBP+Mal+H20 150 K	23-Jun-15 19:39:26	23-Jun-15 20:09:46	1800.01	150.097	150.001	1.07357E+07	5964.24	1.43545E+06	797.468	295	-1443
123492	5 MBP+Mal+H20 150 K	23-Jun-15 20:09:49	23-Jun-15 20:40:09	1800.01	150.091	150	1.07382E+07	5965.61	1.43376E+06	796.527	295	-1443
123493	5 MBP+Mal+H20 150 K	23-Jun-15 20:40:12	23-Jun-15 21:10:32	1800.01	150.122	149.998	1.07265E+07	5959.11	1.43886E+06	799.362	295	-1443
123494	5 MBP+Mal+H20 150 K	23-Jun-15 21:10:34	23-Jun-15 21:40:55	1800.01	150.112	150.004	1.07248E+07	5958.16	1.43765E+06	798.687	295	-1443
123495	5 MBP+Mal+H20 300 K	23-Jun-15 22:10:45	23-Jun-15 22:11:32	14.1444	301.087	296.594	343	24.25	12	0.848395	295	-1443
123496	5 MBP+D2O 300 K	23-Jun-15 22:25:18	23-Jun-15 22:25:51	0.0006010	291.66	302.155	0	102.348	0	0	295	-1443
123497	5 MBP+D2O 300 K	23-Jun-15 22:40:41	23-Jun-15 23:11:01	1800.01	296.058	297	6.61354E+06	3674.16	1.43574E+06	797.626	295	-1443
123498	5 MBP+D2O 300 K	23-Jun-15 23:11:04	23-Jun-15 23:41:24	1800.01	295.995	297	6.61843E+06	3676.88	1.44047E+06	800.258	295	-1443
123499	5 MBP+D2O 300 K	23-Jun-15 23:41:27	24-Jun-15 00:11:47	1800.01	296.01	297	6.61531E+06	3675.15	1.43081E+06	794.889	295	-1443
123500	5 MBP+D2O 300 K	24-Jun-15 00:11:50	24-Jun-15 00:42:11	1800.01	295.971	297	6.62265E+06	3679.23	1.43658E+06	798.092	295	-1443
123501	5 MBP+D2O cooling to 150 K	24-Jun-15 00:42:13	24-Jun-15 00:52:34	600.012	287.071	238.541	2.20583E+06	3676.31	478064	796.757	295	-1443
123502	5 MBP+D2O cooling to 150 K	24-Jun-15 00:52:36	24-Jun-15 01:02:56	600.012	268.047	214.847	2.18618E+06	3643.56	477975	796.609	295	-1443
123503	5 MBP+D2O cooling to 150 K	24-Jun-15 01:02:59	24-Jun-15 01:13:19	600.012	246.497	194.417	2.17148E+06	3619.06	476892	794.804	295	-1443
123504	5 MBP+D2O cooling to 150 K	24-Jun-15 01:13:21	24-Jun-15 01:23:42	600.012	225.42	176.365	2.15817E+06	3596.88	476122	793.52	295	-1443
123505	5 MBP+D2O cooling to 150 K	24-Jun-15 01:23:44	24-Jun-15 01:34:04	600.012	205.191	158.905	2.14726E+06	3578.7	477053	795.072	295	-1443
123506	5 MBP+D2O cooling to 150 K	24-Jun-15 01:34:06	24-Jun-15 01:44:27	600.012	186.222	143 068	2.13366E+06	3556.03	478787	797.962	295	-1443
				000.012	100.222	170:000	Z.10000L+00		170707			
123507	5 MBP+D2O cooling to 150 K		24-Jun-15 01:54:59	600.012	168.38		2.12183E+06		476622	794.353		-1443
123507 123508		24-Jun-15 01:44:29				137.511		3536.32			295	-1443 -1443
	5 MBP+D2O cooling to 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01	24-Jun-15 01:54:59	600.012	168.38	137.511 142.922	2.12183E+06	3536.32 3524.35	476622	794.353	295 295	
123508	5 MBP+D2O cooling to 150 K 5 MBP+D2O cooling to 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01 24-Jun-15 02:05:24	24-Jun-15 01:54:59 24-Jun-15 02:05:22	600.012 600.013	168.38 156.38	137.511 142.922 150.012	2.12183E+06 2.11466E+06	3536.32 3524.35 3519.48	476622 479170	794.353 798.6	295 295 295	-1443
123508 123509	5 MBP+D2O cooling to 150 K 5 MBP+D2O cooling to 150 K 5 MBP+D2O cooling to 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01 24-Jun-15 02:05:24 24-Jun-15 02:15:47	24-Jun-15 01:54:59 24-Jun-15 02:05:22 24-Jun-15 02:15:44	600.012 600.013 600.013	168.38 156.38 150.902	137.511 142.922 150.012	2.12183E+06 2.11466E+06 2.11173E+06 2.10901E+06	3536.32 3524.35 3519.48 3514.95	476622 479170 478711	794.353 798.6 797.835	295 295 295 295	-1443 -1443
123508 123509 123510	5 MBP+D2O cooling to 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01 24-Jun-15 02:05:24 24-Jun-15 02:15:47 24-Jun-15 02:26:09	24-Jun-15 01:54:59 24-Jun-15 02:05:22 24-Jun-15 02:15:44 24-Jun-15 02:26:07	600.012 600.013 600.013	168.38 156.38 150.902 149.571	137.511 142.922 150.012 149.999 149.999	2.12183E+06 2.11466E+06 2.11173E+06 2.10901E+06 6.3291E+06	3536.32 3524.35 3519.48 3514.95 3516.14	476622 479170 478711 478549	794.353 798.6 797.835 797.565	295 295 295 295 295	-1443 -1443 -1443
123508 123509 123510 123511	5 MBP+D2O cooling to 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01 24-Jun-15 02:05:24 24-Jun-15 02:15:47 24-Jun-15 02:26:09 24-Jun-15 02:56:32	24-Jun-15 01:54:59 24-Jun-15 02:05:22 24-Jun-15 02:15:44 24-Jun-15 02:26:07 24-Jun-15 02:56:30	600.012 600.013 600.013 600.013 1800.01	168.38 156.38 150.902 149.571 149.735	137.511 142.922 150.012 149.999 149.999	2.12183E+06 2.11466E+06 2.11173E+06 2.10901E+06 6.3291E+06	3536.32 3524.35 3519.48 3514.95 3516.14 3511.06	476622 479170 478711 478549 1.43665E+06 1.43384E+06	794.353 798.6 797.835 797.565 798.133	295 295 295 295 295 295	-1443 -1443 -1443 -1443
123508 123509 123510 123511 123512	5 MBP+D2O cooling to 150 K 5 MBP+D2O 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01 24-Jun-15 02:05:24 24-Jun-15 02:15:47 24-Jun-15 02:26:09 24-Jun-15 02:56:32 24-Jun-15 03:26:55	24-Jun-15 01:54:59 24-Jun-15 02:05:22 24-Jun-15 02:15:44 24-Jun-15 02:26:07 24-Jun-15 02:56:30 24-Jun-15 03:26:52	600.012 600.013 600.013 600.013 1800.01	168.38 156.38 150.902 149.571 149.735 149.972	137.511 142.922 150.012 149.999 149.999 149.999 150.004	2.12183E+06 2.11466E+06 2.11173E+06 2.10901E+06 6.3291E+06 6.31996E+06	3536.32 3524.35 3519.48 3514.95 3516.14 3511.06 3502.73	476622 479170 478711 478549 1.43665E+06 1.43384E+06 1.43408E+06	794.353 798.6 797.835 797.565 798.133 796.574	295 295 295 295 295 295 295	-1443 -1443 -1443 -1443 -1443
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123508 123509 123510 123511 123512 123513 123514 123515 123516 123517 123518 123519 123520 123521 123522 123523 123524 123525 123526 123527 123528 123529 123530 123531	5 MBP+D2O cooling to 150 K 5 MBP+D2O 150 K 5 Empty 3 - cooling to 150 K 5 Empty 3 - 150 K 5 Empty 2 - cooling to 150 K 5 Empty 2 - cooling to 150 K 5 Empty 2 - cooling to 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01 24-Jun-15 02:05:24 24-Jun-15 02:15:47 24-Jun-15 02:26:09 24-Jun-15 02:56:32 24-Jun-15 03:26:55 24-Jun-15 03:57:17 24-Jun-15 04:27:40 24-Jun-15 05:28:26 24-Jun-15 05:28:26 24-Jun-15 06:29:11 24-Jun-15 06:59:34 24-Jun-15 07:29:56 24-Jun-15 09:01:11 24-Jun-15 09:01:11 24-Jun-15 09:04:08 24-Jun-15 09:35:15 24-Jun-15 09:35:15 24-Jun-15 10:07:22 24-Jun-15 11:05:26 24-Jun-15 11:15:41 24-Jun-15 11:15:41	24-Jun-15 01:54:59 24-Jun-15 02:05:22 24-Jun-15 02:15:44 24-Jun-15 02:26:07 24-Jun-15 02:26:30 24-Jun-15 03:26:52 24-Jun-15 03:57:15 24-Jun-15 04:27:38 24-Jun-15 04:58:00 24-Jun-15 05:28:23 24-Jun-15 05:58:46 24-Jun-15 06:29:09 24-Jun-15 06:59:31 24-Jun-15 07:29:54 24-Jun-15 08:00:17 24-Jun-15 09:03:06 24-Jun-15 09:35:13 24-Jun-15 09:35:13 24-Jun-15 10:07:19 24-Jun-15 10:27:36 24-Jun-15 11:05:24 24-Jun-15 11:15:37 24-Jun-15 11:46:01	600.012 600.013 600.013 1800.01	168.38 156.38 150.902 149.571 149.735 149.972 150.032 150.047 150.058 150.063 150.065 150.066 150.073 150.072 150.071 195.065 167.707 154.313 149.721 149.549 149.542 149.9 153.403 148.845 149.242	137.511 142.922 150.012 149.999 149.999 149.999 150.004 150 150 150 150 150 149.998 149.998 150.001 149.999 150.001 149.999 150.005 149.998 150.001 146.319 150.003	2.12183E+06 2.11466E+06 2.11173E+06 2.10901E+06 6.3291E+06 6.31996E+06 6.30493E+06 6.30258E+06 6.30383E+06 6.30786E+06 6.30786E+06 6.3062E+06 6.3062E+06 6.31223E+06 2374 89927 88639 87447 6432 261622 174341 92238 90355 274553 275797	3536.32 3524.35 3519.48 3514.95 3516.14 3511.06 3502.73 3504.83 3501.42 3502.12 3504.47 3504.36 3502.51 3503.33 3503.43 3506.78 25.2237 149.875 147.729 145.742 142.644 145.345 146.024 153.727 152.924 152.528	476622 479170 478711 478549 1.43665E+06 1.43384E+06 1.43408E+06 1.43615E+06 1.43767E+06 1.43534E+06 1.43534E+06 1.43544E+06 1.43148E+06 1.43691E+06 1.43606E+06 1.43133E+06 1.10 476022 477311 478827 36643 1.43366E+06 952552 475924 467376 1.43369E+06	794.353	295 295 295 295 295 295 295 295 295 295	-1443 -1443
123508 123509 123510 123511 123512 123513 123514 123515 123516 123517 123518 123519 123520 123521 123522 123523 123524 123525 123526 123527 123528 123529 123530 123531 123532	5 MBP+D2O cooling to 150 K 5 MBP+D2O 150 K 5 Empty 3 - cooling to 150 K 5 Empty 2 - cooling to 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01 24-Jun-15 02:05:24 24-Jun-15 02:15:47 24-Jun-15 02:26:09 24-Jun-15 02:56:32 24-Jun-15 03:26:55 24-Jun-15 03:57:17 24-Jun-15 04:27:40 24-Jun-15 05:28:26 24-Jun-15 05:28:26 24-Jun-15 05:58:48 24-Jun-15 06:29:11 24-Jun-15 06:59:34 24-Jun-15 07:29:56 24-Jun-15 09:01:11 24-Jun-15 09:01:11 24-Jun-15 09:04:08 24-Jun-15 09:35:15 24-Jun-15 09:35:15 24-Jun-15 10:55:04 24-Jun-15 11:05:26 24-Jun-15 11:15:41 24-Jun-15 11:15:41	24-Jun-15 01:54:59 24-Jun-15 02:05:22 24-Jun-15 02:15:44 24-Jun-15 02:26:07 24-Jun-15 02:26:30 24-Jun-15 03:26:52 24-Jun-15 03:57:15 24-Jun-15 04:27:38 24-Jun-15 04:58:00 24-Jun-15 05:28:23 24-Jun-15 05:58:46 24-Jun-15 06:29:09 24-Jun-15 06:59:31 24-Jun-15 07:29:54 24-Jun-15 08:00:17 24-Jun-15 09:03:06 24-Jun-15 09:35:13 24-Jun-15 09:35:13 24-Jun-15 09:36:20 24-Jun-15 10:07:19 24-Jun-15 11:05:24 24-Jun-15 11:05:24 24-Jun-15 11:15:37 24-Jun-15 11:46:01 24-Jun-15 12:16:23	600.012 600.013 600.013 1800.01	168.38 156.38 150.902 149.571 149.735 149.972 150.032 150.047 150.058 150.063 150.065 150.066 150.073 150.072 150.071 195.065 167.707 154.313 149.721 149.549 149.542 149.9 153.403 148.845 149.242 149.912	137.511 142.922 150.012 149.999 149.999 149.999 150.004 150 150 150 150 150 150 150.001 149.998 150.001 149.999 150.001 149.999 150.005 149.998 150.001 146.319 150.002 150.002	2.12183E+06 2.11466E+06 2.11173E+06 2.10901E+06 6.3291E+06 6.31996E+06 6.30493E+06 6.30258E+06 6.30383E+06 6.30786E+06 6.30786E+06 6.3062E+06 6.3062E+06 6.31223E+06 2374 89927 88639 87447 6432 261622 174341 92238 90355 274553 275797	3536.32 3524.35 3519.48 3514.95 3516.14 3511.06 3502.73 3504.83 3501.42 3502.12 3504.47 3504.36 3502.51 3503.33 3503.43 3503.43 3506.78 25.2237 149.875 147.729 145.742 142.644 145.345 146.024 153.727 152.924 152.528 153.926	476622 479170 478711 478549 1.43665E+06 1.43384E+06 1.43408E+06 1.43615E+06 1.43767E+06 1.43534E+06 1.43534E+06 1.43544E+06 1.43691E+06 1.43606E+06 1.43133E+06 1.10 476022 477311 478827 36643 1.43366E+06 952552 475924 467376 1.43369E+06 1.43369E+06 1.43369E+06 1.43369E+06 1.43369E+06	794.353	295 295 295 295 295 295 295 295 295 295	-1443 -1443
123508 123509 123510 123511 123512 123513 123514 123515 123516 123517 123518 123519 123520 123521 123522 123523 123524 123525 123526 123527 123528 123529 123530 123531 123532	5 MBP+D2O cooling to 150 K 5 MBP+D2O 150 K 5 MBP+D2O 150 K 5 MBP+D2O 150 K 5 MBP+D2O 150 K 6 Empty 3 - cooling to 150 K 6 Empty 3 - 150 K 6 Empty 2 - cooling to 150 K 6 Empty 2 - cooling to 150 K 6 Empty 2 - cooling to 150 K 6 Empty 2 - 150 K	24-Jun-15 01:44:29 24-Jun-15 01:55:01 24-Jun-15 02:05:24 24-Jun-15 02:15:47 24-Jun-15 02:26:09 24-Jun-15 02:56:32 24-Jun-15 03:26:55 24-Jun-15 03:57:17 24-Jun-15 04:27:40 24-Jun-15 04:58:03 24-Jun-15 05:28:26 24-Jun-15 05:58:48 24-Jun-15 06:29:11 24-Jun-15 06:59:34 24-Jun-15 07:29:56 24-Jun-15 08:00:19 24-Jun-15 09:01:11 24-Jun-15 09:01:11 24-Jun-15 09:04:08 24-Jun-15 09:35:15 24-Jun-15 09:35:15 24-Jun-15 10:55:04 24-Jun-15 11:05:26 24-Jun-15 11:15:41 24-Jun-15 11:15:41 24-Jun-15 11:15:41	24-Jun-15 01:54:59 24-Jun-15 02:05:22 24-Jun-15 02:15:44 24-Jun-15 02:26:07 24-Jun-15 02:56:30 24-Jun-15 03:26:52 24-Jun-15 03:57:15 24-Jun-15 04:27:38 24-Jun-15 04:58:00 24-Jun-15 05:28:23 24-Jun-15 05:58:46 24-Jun-15 06:59:31 24-Jun-15 07:29:54 24-Jun-15 08:00:17 24-Jun-15 09:03:06 24-Jun-15 09:03:06 24-Jun-15 09:35:13 24-Jun-15 09:35:13 24-Jun-15 10:07:19 24-Jun-15 10:27:36 24-Jun-15 11:05:24 24-Jun-15 11:15:37 24-Jun-15 11:46:01 24-Jun-15 12:16:23 24-Jun-15 12:20:20	600.012 600.013 600.013 1800.01	168.38 156.38 150.902 149.571 149.735 149.972 150.032 150.047 150.058 150.063 150.065 150.066 150.073 150.072 150.071 195.065 167.707 154.313 149.721 149.549 149.542 149.9 153.403 148.845 149.242 149.945	137.511 142.922 150.012 149.999 149.999 149.999 150.004 150 150 150 150 150 150.001 149.998 150.001 149.999 150.001 149.999 150.005 149.998 150.001 146.319 150.002 150	2.12183E+06 2.11466E+06 2.11173E+06 2.10901E+06 6.3291E+06 6.31996E+06 6.30493E+06 6.30872E+06 6.30258E+06 6.30383E+06 6.30786E+06 6.30786E+06 6.3062E+06 6.3062E+06 6.31223E+06 2374 89927 88639 87447 6432 261622 174341 92238 90355 274553 275797 33026 1.81368E+06	3536.32 3524.35 3519.48 3514.95 3516.14 3511.06 3502.73 3504.83 3501.42 3502.12 3504.47 3504.36 3502.51 3503.33 3503.43 3503.43 3506.78 25.2237 149.875 147.729 145.742 142.644 145.345 146.024 153.727 152.924 152.528 153.926	476622 479170 478711 478549 1.43665E+06 1.43384E+06 1.43408E+06 1.43615E+06 1.43767E+06 1.43534E+06 1.43534E+06 1.43544E+06 1.43691E+06 1.43606E+06 1.43133E+06 1.10 476022 477311 478827 36643 1.43366E+06 952552 475924 467376 1.43369E+06 1.43369E+06 1.43369E+06 1.43369E+06 1.43369E+06	794.353	295 295 295 295 295 295 295 295 295 295	-1443 -1443

# **Utilized Data**

run_number	wavelength	experiment_identifier	start_time	end_time	duration	temperature	regulation_temperature	detsum	detrate	monsum	monrate	elasticpeak	SRot	
123400	5	MBP+H2O 297K	22-Jun-15 12:12:21	22-Jun-15 12:42:41	1800.01	296.421	296.999	1.22701E+07	6816.7	1.43123E+06	795.122	295	-1443	
123401	5	MBP+H2O 297K	22-Jun-15 12:42:45	22-Jun-15 13:13:05	1800.01	296.155	296.998	1.22666E+07	6814.74	1.43116E+06	795.083	295	-1443	
123411	5	MBP+H2O cooling to 150 K	22-Jun-15 14:46:34	22-Jun-15 14:56:54	600.012	149.847	150.002	3.86419E+06	6440.19	478892	798.137	295	-1443	
123412	5	MBP+H2O cooling to 150 K	22-Jun-15 14:56:57	22-Jun-15 15:07:17	600.012	149.443	150	3.85989E+06	6433.01	479527	799.196	295	-1443	
123413	5	MBP+H2O cooling to 150 K	22-Jun-15 15:07:19	22-Jun-15 15:17:40	600.012	149.521	149.999	3.86682E+06	6444.57	478856	798.077	295	-1443	
123414	5	MBP+H2O cooling to 150 K	22-Jun-15 15:17:42	22-Jun-15 15:28:02	600.012	149.675	150.001	3.87025E+06	6450.29	479494	799.141	295	-1443	
123415		MBP+H2O cooling to 150 K		22-Jun-15 15:38:25	600.012	149.804		3.86775E+06		479003	798.323		-1443	
123416			22-Jun-15 15:38:27		162.026	149.835	149.998	1.04337E+06		128667	794.116		-1443	
123417		MBP+H2O 150 K		22-Jun-15 16:11:58	1800.01	149.99		1.16068E+07			797.152		-1443	
123418 123419		MBP+H2O 150 K MBP+H2O 150 K		22-Jun-15 16:42:21 22-Jun-15 17:12:44	1800.01 1800.01	150.033 150.049		1.16177E+07 1.16122E+07			798.347 795.681		-1443 -1443	
123419		MBP+H2O 150 K		22-Jun-15 17:43:07	1800.01	150.049		1.16122E+07 1.16181E+07			797.509		-1443	
123421		MBP+H2O 150 K		22-Jun-15 18:13:30	1800.01	150.067		1.16206E+07			796.389		-1443	
123422		MBP+H2O 150 K		22-Jun-15 18:34:53	1259.84	150.072		8.13397E+06			797.494		-1443	
123438	5	MBP+Mal+D2O cooling to 150 K	23-Jun-15 00:32:18	23-Jun-15 00:42:38	600.012	149.581	150.002	1.29001E+06	2149.97	475266	792.094	295	-1443	
123439	5	MBP+Mal+D2O 150 K	23-Jun-15 00:42:41	23-Jun-15 01:13:01	1800.01	149.766	150	3.87643E+06	2153.56	1.43498E+06	797.209	295	-1443	
123440	5	MBP+Mal+D2O 150 K	23-Jun-15 01:13:03	23-Jun-15 01:43:24	1800.01	149.98	150.004	3.87588E+06	2153.25	1.43522E+06	797.338	295	-1443	
123441	5	MBP+Mal+D2O 150 K	23-Jun-15 01:43:26	23-Jun-15 02:13:46	1800.01	150.037	150	3.8775E+06	2154.15	1.43527E+06	797.368	295	-1443	
123442	5	MBP+Mal+D2O 150 K	23-Jun-15 02:13:49	23-Jun-15 02:44:09	1800.01	150.054	149.996	3.65688E+06	2031.59	1.35543E+06	753.013	295	-1443	
123443		MBP+Mal+D2O 150 K		23-Jun-15 03:14:32	1800.01	150.058		3.87655E+06			799.045		-1443	
123444		MBP+Mal+D2O 150 K		23-Jun-15 03:44:54	1800.01	150.066		3.87915E+06			797.216		-1443	
123445		MBP+Mal+D2O 150 K		23-Jun-15 04:15:17	1800.01	150.068		3.87645E+06			798.375		-1443	
123446 123447		MBP+Mal+D2O 150 K MBP+Mal+D2O 150 K		23-Jun-15 04:45:40 23-Jun-15 05:16:02	1800.01 1800.01	150.072 150.073		3.87686E+06 3.87918E+06		1.43867E+06 1.4364E+06	799.259 797.993		-1443 -1443	
123447		MBP+Mal+D2O 150 K		23-Jun-15 05:16:02 23-Jun-15 05:46:25	1800.01	150.073		3.87918E+06 3.87676E+06			797.993		-1443	
123449		MBP+Mal+D2O 150 K		23-Jun-15 06:16:48	1800.01	150.076	150.001	3.88068E+06			799.693		-1443	
123450	-	MBP+Mal+D2O 150 K		23-Jun-15 06:47:10	1800.01	150.075		3.88182E+06			796.324		-1443	
123451	5	MBP+Mal+D2O 150 K	23-Jun-15 06:47:13	23-Jun-15 07:17:33	1800.01	150.078	150	3.8825E+06	2156.93	1.4382E+06	798.998	295	-1443	
123452	5	MBP+Mal+D2O 150 K	23-Jun-15 07:17:35	23-Jun-15 07:47:56	1800.01	150.078	149.999	3.87913E+06	2155.06	1.44015E+06	800.078	295	-1443	
123453	5	MBP+Mal+D2O 150 K	23-Jun-15 07:47:58	23-Jun-15 08:18:18	1800.01	150.081	149.999	3.88066E+06	2155.91	1.43358E+06	796.428	295	-1443	
123454	5	MBP+Mal+D2O 150 K	23-Jun-15 08:18:21	23-Jun-15 08:48:41	1800.01	150.078	150	3.88077E+06	2155.97	1.43927E+06	799.589	295	-1443	
123455		MBP+Mal+D2O 150 K		23-Jun-15 09:19:04	1800.01	150.076	150.001			1.43828E+06	799.041	295	-1443	
123456		MBP+Mal+D2O 150 K		23-Jun-15 09:49:26	1800.01	150.078	150.001			1.43329E+06	796.269		-1443	
123459		Empty 1 - cooling to 150 K		23-Jun-15 10:45:26	600.012	150.196	150.004	94520	157.53	481164	801.924		-1443	
123460 123461		Empty 1 - cooling to 150 K Empty 1 - 150 K	23-Jun-15 10:45:28	23-Jun-15 10:46:54 23-Jun-15 11:17:36	65.982 1800.01	149.924 149.62	150.004	10394 282721		52941 1.43927E+06	802.355 799.587		-1443 -1443	
123462		Empty 1 - 150 K		23-Jun-15 11:47:59	1800.01	149.993	149.999	280921	156.066	1.237E+06	799.164		-1443	
123463			23-Jun-15 11:48:01	23-Jun-15 12:11:07	1366.02	150.365	150	212832	155.805	1.09201E+06	799.415		-1443	
123467	5	Empty 4 - cooling to 150 K	23-Jun-15 13:02:03	23-Jun-15 13:03:10	47.1919	149.933	150.005	6379	135.172	37625	797.277	295	-1443	
123468	5	Empty 4 - 150 K	23-Jun-15 13:03:27	23-Jun-15 13:33:47	1800.01	149.508	150.003	240371	133.539	1.4343E+06	796.827	295	-1443	
123469	5	Empty 4 - 150 K	23-Jun-15 13:33:50	23-Jun-15 14:04:10	1800.01	149.976	149.998	239265	132.924	1.4353E+06	797.384	295	-1443	
123470	5	Empty 4 - 150 K		23-Jun-15 14:06:00	27.0687	149.989	150.002		137.576	20506	757.554		-1443	
123471		Empty 4 - 300 K		23-Jun-15 15:19:05	1800.01	297.505	296.999			1.44281E+06	801.556		-1443	
123472		Empty 4 - 300 K		23-Jun-15 15:35:36	968.446	296.435	297.002		177.278	773367	798.565		-1443	
123487 123488		MBP+Mal+H20 cooling to 150 K MBP+Mal+H20 cooling to 150 K			337.673	150.954 149.899		3.58661E+06 2.01612E+06		477276 269818	795.444 799.051		-1443 -1443	
123489		MBP+Mal+H20 150 K		23-Jun-15 19:09:00	1800.01	149.768		1.07425E+07			799.063		-1443	
123490		MBP+Mal+H20 150 K		23-Jun-15 19:39:23	1800.01	150.03					799.583		-1443	
123491	5	MBP+Mal+H20 150 K	23-Jun-15 19:39:26	23-Jun-15 20:09:46	1800.01	150.097	150.001	1.07357E+07	5964.24	1.43545E+06	797.468	295	-1443	
123492	5	MBP+Mal+H20 150 K	23-Jun-15 20:09:49	23-Jun-15 20:40:09	1800.01	150.091	150	1.07382E+07	5965.61	1.43376E+06	796.527	295	-1443	
123493	5	MBP+Mal+H20 150 K	23-Jun-15 20:40:12	23-Jun-15 21:10:32	1800.01	150.122	149.998	1.07265E+07	5959.11	1.43886E+06	799.362	295	-1443	
123494	5	MBP+Mal+H20 150 K	23-Jun-15 21:10:34	23-Jun-15 21:40:55	1800.01	150.112	150.004	1.07248E+07	5958.16	1.43765E+06	798.687	295	-1443	
123497		MBP+D2O 300 K		23-Jun-15 23:11:01	1800.01	296.058		6.61354E+06			797.626		-1443	
123498			23-Jun-15 23:11:04		1800.01	295.995		6.61843E+06			800.258		-1443	
123499			23-Jun-15 23:41:27		1800.01	296.01		6.61531E+06			794.889		-1443	
123500			24-Jun-15 00:11:50		1800.01	295.971		6.62265E+06			798.092		-1443	
123509 123510		MBP+D2O cooling to 150 K MBP+D2O cooling to 150 K	24-Jun-15 02:05:24 24-Jun-15 02:15:47	24-Jun-15 02:15:44	600.013	150.902 149.571		2.11173E+06 2.10901E+06		478711 478549	797.835 797.565		-1443 -1443	
123510		MBP+D2O 150 K		24-Jun-15 02:56:30	1800.01	149.735	149.999			1.43665E+06	798.133		-1443	
123512		MBP+D2O 150 K		24-Jun-15 03:26:52	1800.01	149.972		6.31996E+06			796.574		-1443	
123513		MBP+D2O 150 K		24-Jun-15 03:57:15	1800.01	150.032		6.30493E+06			796.706		-1443	
123514	5	MBP+D2O 150 K	24-Jun-15 03:57:17	24-Jun-15 04:27:38	1800.01	150.047	150	6.30872E+06	3504.83	1.43615E+06	797.858	295	-1443	
123515	5	MBP+D2O 150 K	24-Jun-15 04:27:40	24-Jun-15 04:58:00	1800.01	150.058	150	6.30258E+06	3501.42	1.43767E+06	798.705	295	-1443	
123516	5	MBP+D2O 150 K	24-Jun-15 04:58:03	24-Jun-15 05:28:23	1800.01	150.058	150	6.30383E+06	3502.12	1.43589E+06	797.712	295	-1443	
123517		MBP+D2O 150 K		24-Jun-15 05:58:46	1800.01	150.063		6.30806E+06			797.409		-1443	
123518		MBP+D2O 150 K		24-Jun-15 06:29:09		150.065				1.43544E+06			-1443	
123519		MBP+D2O 150 K		24-Jun-15 06:59:31	1800.01	150.066		6.30453E+06			795.266		-1443	
123520 123521		MBP+D2O 150 K MBP+D2O 150 K		24-Jun-15 07:29:54 24-Jun-15 08:00:17	1800.01	150.073 150.072	150.001	6.30601E+06			798.28		-1443	
123521		MBP+D2O 150 K		24-Jun-15 08:30:39	1800.01 1800.01	150.072	149.999	6.3062E+06 6.31223E+06		1.43606E+06 1.43133E+06	797.806 795.181		-1443 -1443	
123535		Vanadium 0.5mm		24-Jun-15 13:05:09	1800.01	164.226	155.736	1.81368E+06			795.988		-1443	
123536		Vanadium 0.5mm		24-Jun-15 13:14:53	561.5	160.242	154.75		1006.49	448995	799.635		-1443	

## **General Information**

	Tran	smission				То	tal rate of mor	nitor
Sample (calc	olated)	Cell	Vanadium			Average	Dev. Stand.	Percent. err.
MBP + H2O	MBP + D20	(considered negligible)	variaulum			3533	2431	68.8
0.91	0.93	1	0.89			Note: all datas are	already normalized	d to monitor
Note: the transmission	n error is conside	ered negligible						
_	Се	II's size				Sar	mple	
Length [cm]	Heigh [cm]	Thickness [cm]	Volume [ cm <sup>3</sup> ]		Density [ g/cm <sup>3</sup> ]	Mass [g]	Effective Volume [ cm <sup>3</sup> ]	Effective Thickness [cm]
3	5	0.02	0.3		1.4	0.05	0.0357	0.0024
Solution	Cro Scattering [barn]	oss section  Absorption [barn]	Hydratation [%]		atterer Center r V atoms)	Molar Mass o (Protein + Hyd	•	Molar Mass of the Dry System [g/mol]
MBP + H2O	351774.63	6202.05	0.4		4039.67		56296.64	40212
MBP + D2O	217852.32	4567.22	0.4		2254		56296.64	40212
MBP + Malt + H2O	354958.26	6236.27	0.4		4076.87		56775.86	40554
MBP + Malt + D2O	219895.94	4587.52	0.4		2276		56775.86	40554
Vanadium	5.2054	14.1389	0		1		50.942	50.942
Note: hydratation is ed	qual to the ratio	of the weight of solvent ove	er the weight of			Molar Mass of th	e solvent [g / mol]	
solute ( e.g. h = 0.4 g	of water / 1 g of	· MBP )			H2O	18.01534	D2O	19.9994
Boltzmann constant [meV / K]	Temperature [K]	Thermal Energy [meV]			Maltose			
0.0861673324	150	12.92509986		Chemical o	composition	Molar Mass [g / mol]		
Thermal Ene	ergy at room tem	perature (300 K)		Н	22	342.30		
		25.85019972		С	12			
				0	11			

## **MBP** + **H2O** at ≈ **297** K

											[File: 123	400_12340	1.hdf]							
Wavelength [Å]	Star	t tim	ie		End	l tim	ne		Duratio	on [sec]	Temperature	Regulation	DetS	um	DetRate	MonSun	า	MonRate	Elastic	SRot
of incident neutron	Day		Time		Day	Day Time h min sec			measured	calculated	[K]	Temp. [K]	Total num. o	of neutron	Neutron rate	Total neutron num. o	f MONITOR	Neutron rate of	peak	
		h	min	sec		h	min	sec					measured	calculated		measured	calculated	MONITOR	[ToF]	
5	22/06/2015	12	12	21	22/06/2015	12	42	41	1800.01	1820	296.421	296.999	1.22701E+07	1.22684E+07	6816.7	1.43123E+06	1.43119E+06	795.122	295	-1443
5	22/06/2015	12	42	45	22/06/2015	13	13	5	1800.01	1820	296.155	296.998	1.22666E+07	1.22684E+07	6814.74	1.43116E+06	1.43119E+06	795.083	295	-1443
											Average				Average			Average		
											296.29				6815.72			795.10		
											Dev. Stand.				Dev. Stand.			Dev. Stand.		
											0.19				1.4			0.03		
											Percent. err.				Percent. err.			Percent. err.		
											0.06				0.02			0.003		

#### **MBP** + **H2O** at ≈ 150 K

											[File: 123	412_12342	2.hdf]							
Wavelength [Å]	Star	t tim	e		End	l tim	е		Duratio	n [sec]	Temperature	Regulation	DetS	Sum	DetRate	MonSum		MonRate	Elastic	SRot
of incident neutron	Day		Time		Day		Time		measured	calculated	[K]	Temp. [K]	Total num.	of neutron	Neutron rate	Total neutron num. of	MONITOR	Neutron rate of	peak	
		h	min	sec		h	min	sec					measured	calculated		measured	calculated	MONITOR	[ToF]	
											COO	LING to 150K								
5	22/06/2015	14	56	57	22/06/2015	15	7	17	600.012	620	149.443	150	3859890	3865701	6433.01	479527	478672	799.196	295	-1443
5	22/06/2015	15	7	19	22/06/2015	15	17	40	600.012	621	149.521	149.999	3866820	3865701	6444.57	478856	478672	798.077	295	-1443
5	22/06/2015	15	17	42	22/06/2015	15	28	2	600.012	620	149.675	150.001	3870250	3865701	6450.29	479494	478672	799.141	295	-1443
5	22/06/2015	15	28	5	22/06/2015	15	38	25	600.012	620	149.804	149.998	3867750	3865701	6446.12	479003	478672	798.323	295	-1443
5	22/06/2015	15	38	27	22/06/2015	15	41	30	162.026	183	149.835	149.998	1043370	1043886	6439.54	128667	129260	794.116	295	-1443
											Average				Average			Average		
											149.66				6443			798		
											Dev. Stand.				Dev. Stand.			Dev. Stand.		
											0.17				7			2		
											Percent. err.				Percent. err.					
											0.11				0.10					
									1		COO	LED at ≈ 150 k	(							
5	22/06/2015	15	41	38	22/06/2015	16	11	58	1800.01	1820	149.99	149.998	11606800	11616146	6448.17	1434880	1434780	797.152	295	-1443
5	22/06/2015	16	12	1	22/06/2015	16	42	21	1800.01	1820	150.033	150.004	11617700	11616146	6454.26	1437030	1434780	798.347	295	-1443
5	22/06/2015	16	42	24	22/06/2015	17	12	44	1800.01	1820	150.049	150	11612200	11616146	6451.17	1432230	1434780	795.681	295	-1443
5	22/06/2015	17	12	47	22/06/2015	17	43	7	1800.01	1820	150.057	150.001	11618100	11616146	6454.46	1435520	1434780	797.509	295	-1443
5	22/06/2015	17	43	10	22/06/2015	18	13	30	1800.01	1820	150.067	150.002	11620600	11616146	6455.86	1433510	1434780	796.389	295	-1443
5	22/06/2015	18	13	32	22/06/2015	18	34	53	1259.84	1281	150.072	150.002	8133970	8130224	6456.35	1004720	1004213	797.494	295	-1443
											Average				Average			Average		
											150.04				6453.38			797.10		
											Dev. Stand.				Dev. Stand.			Dev. Stand.		
											0.03				3			0.9		
											Percent. err.				Percent. err.			Percent. err.		
											0.02				0.05			0.12		

# MBP + D2O at ≈ 297 K

											[File: 1234	97_123500	).hdf]							
Wavelength [Å]	Star	t tim	ie		End	d tim	е		Duratio	on [sec]	Temperature	Regulation	DetSu	ım	DetRate	MonSum		MonRate	Elastic	SRot
of incident neutron	Day	h min sec		Day		Time		measured	calculated	[K]	Temp. [K]	Total num. of	neutron	Neutron rate	Total neutron num. of	MONITOR	Neutron rate of	peak		
		h	min	sec		h	min	sec					measured	calculated		measured	calculated	MONITOR	[ToF]	
5	23/06/2015	22	40	41	23/06/2015	23	11	1	1800.01	1820	296.058	297	6613540	6617476	3674.16	1435740	1435897	797.626	295	-1443
5	23/06/2015	23	11	4	23/06/2015	23	41	24	1800.01	1820	295.995	297	6618430	6617476	3676.88	1440470	1435897	800.258	295	-1443
5	23/06/2015	23	41	27	24/06/2015	24	11	47	1800.01	1820	296.01	297	6615310	6617476	3675.15	1430810	1435897	794.889	295	-1443
5	24/06/2015	0	11	50	24/06/2015		42	11	1800.01	1821	295.971	297	6622650	6617476	3679.23	1436580	1435897	798.092	295	-1443
											Average				Average			Average		
											296.01				3676			798		
											Dev. Stand.				Dev. Stand.			Dev. Stand.		
											0.04				2			2		
											Percent. err.				Percent. err.			Percent. err.		
											0.01				0.06			0.277		

## **MBP** + **D2O** at ≈ 150 K

											[File: 1235	10_123522	.hdf]							
Wavelength [Å]	Star	t time			End	d tim	e		Duratio	on [sec]	Temperature	Regulation	DetSu	ım	DetRate	MonSum		MonRate	Elastic	SRo
of incident neutron	Day	Ti	me		Day		Time	n	neasured	calculated	[K]	Temp. [K]	Total num. o	f neutron	Neutron rate	Total neutron num. of	MONITOR	Neutron rate of	peak	
		h m	in	sec		h	min	sec					measured	calculated		measured	calculated	MONITOR	[ToF]	
		·			·			•			COOL	ING to 150K								
5	24/06/2015	2	15	47	24/06/2015	2	26	7	600.013	620	149.571	149.999	2.10901E+06		3514.95	478549		797.565	295	-144
		'									COOL	ED at ≃ 150 K								
5	24/06/2015	2	26	9	24/06/2015	2	56	30	1800.01	1821	149.735	149.999	6.3291E+06	6309512	3516.14	1.43665E+06	1435072	798.133	295	-144
5	24/06/2015	2	56	32	24/06/2015	3	26	52	1800.01	1820	149.972	149.999	6.31996E+06	6309512	3511.06	1.43384E+06	1435072	796.574	295	-14
5	24/06/2015	3	26	55	24/06/2015	3	57	15	1800.01	1820	150.032	150.004	6.30493E+06	6309512	3502.73	1.43408E+06	1435072	796.706	295	-14
5	24/06/2015	3	57	17	24/06/2015	4	27	38	1800.01	1821	150.047	150	6.30872E+06	6309512	3504.83	1.43615E+06	1435072	797.858	295	-14
5	24/06/2015	4	27	40	24/06/2015	4	58	0	1800.01	1820	150.058	150	6.30258E+06	6309512	3501.42	1.43767E+06	1435072	798.705	295	-14
5	24/06/2015	4	58	3	24/06/2015	5	28	23	1800.01	1820	150.058	150	6.30383E+06	6309512	3502.12	1.43589E+06	1435072	797.712	295	-14
5	24/06/2015	5	28	26	24/06/2015	5	58	46	1800.01	1820	150.063	149.998	6.30806E+06	6309512	3504.47	1.43534E+06	1435072	797.409	295	-14
5	24/06/2015	5	58	48	24/06/2015	6	29	9	1800.01	1821	150.065	149.998	6.30786E+06	6309512	3504.36	1.43544E+06	1435072	797.464	295	-14
5	24/06/2015	6	29	11	24/06/2015	6	59	31	1800.01	1820	150.066	150	6.30453E+06	6309512	3502.51	1.43148E+06	1435072	795.266	295	-14
5	24/06/2015	6	59	34	24/06/2015	7	29	54	1800.01	1820	150.073	150.001	6.30601E+06	6309512	3503.33	1.43691E+06	1435072	798.28	295	-14
5	24/06/2015	7	29	56	24/06/2015	8	0	17	1800.01	1821	150.072	149.999	6.3062E+06	6309512	3503.43	1.43606E+06	1435072	797.806	295	-144
5	24/06/2015	8	0	19	24/06/2015	8	30	39	1800.01	1820	150.071	150	6.31223E+06	6309512	3506.78	1.43133E+06	1435072	795.181	295	-14
											Average				Average			Average		
											150.03				3505			797.3		
											Dev. Stand.				Dev. Stand.			Dev. Stand.		
											0.10				4			1.1		
											Percent. err.				Percent. err.			Percent. err.		
											0.06				0.12			0.14		

#### MBP + Malt + D2O at $\approx$ 150 K

												[File: 1234	38_123456	i.hdf]							
Wavelength [Å]	Star	t tim	е		E	nd ti	me			Duratio	on [sec]	Temperature	Regulation	DetSu	ım	DetRate	MonSum		MonRate	Elastic	SRot
of incident neutron	Day		Time		Day		Ti	ime		measured	calculated	[K]	Temp. [K]	Total num. or	f neutron	Neutron rate	Total neutron num. of	MONITOR	Neutron rate of	peak	
		h	min	sec		ŀ	n	nin s	sec					measured	calculated		measured	calculated	MONITOR	[ToF]	
								'				COOL	ING to 150K								
5	23/06/2015	0	32	18	23/06/201	5	0	42	38	600.012	620	149.581	150.002	1.29001E+06		2149.97	475266		792.094	295	-1443
		'			!	-					·	COOL	ED at ≃ 150 K			'			-	,	!
5	23/06/2015	0	42	41	23/06/201	5	1	13	1	1800.01	1820	149.766	150	3.87643E+06	3866675	2153.56	1.43498E+06	1432011	797.209	295	-1443
5	23/06/2015	1	13	3	23/06/201	5	1	43	24	1800.01	1821	149.98	150.004	3.87588E+06	3866675	2153.25	1.43522E+06	1432011	797.338	295	-1443
5	23/06/2015	1	43	26	23/06/201	5	2	13	46	1800.01	1820	150.037	150	3.8775E+06	3866675	2154.15	1.43527E+06	1432011	797.368	295	-1443
5	23/06/2015	2	13	49	23/06/201	5	2	44	9	1800.01	1820	150.054	149.996	3.65688E+06	3866675	2031.59	1.35543E+06	1432011	753.013	295	-1443
5	23/06/2015	2	44	11	23/06/201	5	3	14	32	1800.01	1821	150.058	149.999	3.87655E+06	3866675	2153.63	1.43829E+06	1432011	799.045	295	-1443
5	23/06/2015	3	14	34	23/06/201	5	3	44	54	1800.01	1820	150.066	150	3.87915E+06	3866675	2155.07	1.435E+06	1432011	797.216	295	-1443
5	23/06/2015	3	44	57	23/06/201	5	4	15	17	1800.01	1820	150.068	150	3.87645E+06	3866675	2153.57	1.43708E+06	1432011	798.375	295	-1443
5	23/06/2015	4	15	19	23/06/201	5	4	45	40	1800.01	1821	150.072	149.997	3.87686E+06	3866675	2153.8	1.43867E+06	1432011	799.259	295	-1443
5	23/06/2015	4	45	42	23/06/201	5	5	16	2	1800.01	1820	150.073	150.001	3.87918E+06	3866675	2155.09	1.4364E+06	1432011	797.993	295	-1443
5	23/06/2015	5	16	5	23/06/201	5	5	46	25	1800.01	1820	150.076	150	3.87676E+06	3866675	2153.74	1.43424E+06	1432011	796.798	295	-1443
5	23/06/2015	5	46	27	23/06/201	5	6	16	48	1800.01	1821	150.077	150.001	3.88068E+06	3866675	2155.92	1.43946E+06	1432011	799.693	295	-1443
5	23/06/2015	6	16	50	23/06/201	5	6	47	10	1800.01	1820	150.075	150.001	3.88182E+06	3866675	2156.55	1.43339E+06	1432011	796.324	295	-1443
5	23/06/2015	6	47	13	23/06/201	5	7	17	33	1800.01	1820	150.078	150	3.8825E+06	3866675	2156.93	1.4382E+06	1432011	798.998	295	-1443
5	23/06/2015	7	17	35	23/06/201	5	7	47	56	1800.01	1821	150.078	149.999	3.87913E+06	3866675	2155.06	1.44015E+06	1432011	800.078	295	-1443
5	23/06/2015	7	47	58	23/06/201	5	8	18	18	1800.01	1820	150.081	149.999	3.88066E+06	3866675	2155.91	1.43358E+06	1432011	796.428	295	-1443
5	23/06/2015	8	18	21	23/06/201	5	8	48	41	1800.01	1820	150.078	150	3.88077E+06	3866675	2155.97	1.43927E+06	1432011	799.589	295	-1443
5	23/06/2015	8	48	43	23/06/201	5	9	19	4	1800.01	1821	150.076	150.001	3.8815E+06	3866675	2156.37	1.43828E+06	1432011	799.041	295	-1443
5	23/06/2015	9	19	6	23/06/201	5	9	49	26	1800.01	1820	150.078	150.001	3.8815E+06	3866675	2156.38	1.43329E+06	1432011	796.269	295	-1443
												Average				Average			Average		
												150.05				2148			795.6		
												Dev. Stand.				Dev. Stand.			Dev. Stand.		
												0.07				29			10.7		
												Percent. err.				Percent. err.			Percent. err.		
												0.05				1.36			1.34		

#### MBP + Malt + H2O at $\approx$ 150 K

												[File: 1234	88_123494	1.hdf]							
Wavelength [Å]	Star	t tin	ne			End	d tim	ne		Durati	on [sec]	Temperature	Regulation	DetSu	ım	DetRate	MonSum		MonRate	Elastic	SRot
of incident neutron	Day		Time	е		Day		Time		measured	calculated	[K]	Temp. [K]	Total num. of	neutron	Neutron rate	Total neutron num. of	MONITOR	Neutron rate of	peak [ToF]	
		h	min	se	С		h	min	sec					measured	calculated		measured	calculated	MONITOR	[IOF]	
												COOL	ING to 150K								
5	23/06/2015	18	32	2 2	3 2	23/06/2015	18	38	31	337.673	368	149.899	150.005	2.01612E+06		5970.64	269818		799.051	295	-1443
												COOL	ED at ≃ 150 K								
5	23/06/2015	18	38	3 40	0 2	23/06/2015	19	9	0	1800.01	1820	149.768	150	1.07425E+07	10733514	5968.01	1.43832E+06	1437215	799.063	295	-1443
5	23/06/2015	19	9	) :	3 2	23/06/2015	19	39	23	1800.01	1820	150.03	150.002	1.07335E+07	10733514	5963.05	1.43926E+06	1437215	799.583	295	-1443
5	23/06/2015	19	39	2	6 2	23/06/2015	20	9	46	1800.01	1820	150.097	150.001	1.07357E+07	10733514	5964.24	1.43545E+06	1437215	797.468	295	-1443
5	23/06/2015	20	9	9 49	9 2	23/06/2015	20	40	9	1800.01	1820	150.091	150	1.07382E+07	10733514	5965.61	1.43376E+06	1437215	796.527	295	-1443
5	23/06/2015	20	40			23/06/2015	21	10				150.122	149.998	1.07265E+07	10733514	5959.11	1.43886E+06	1437215	799.362	295	-1443
5	23/06/2015	21	10	3	4 2	23/06/2015	21	40	55	1800.01	1821	150.112	150.004	1.07248E+07	10733514	5958.16	1.43765E+06	1437215	798.687	295	-1443
																_					
												Average				Average			Average		
												150.04				5963			798.4		
												Dev. Stand.				Dev. Stand.			Dev. Stand.		
												0.14 Percent. err.				Percent. err.			Percent. err.		
												0.09				0.06			0.15		
												0.09				0.00			0.15		

## **Cell 4 at ≃ 297 K**

											[File: 1234	71_123472	2.hdf]							
Wavelength [Å]	Star	t tin	ne		End	d tin	ne		Duratio	on [sec]	Temperature		DetSu	um	DetRate	MonSum		MonRate	Elastic	SRot
of incident neutron	Day		Time	•	Day Time measured ca						[K]	Temp. [K]	Total num. o	f neutron	Neutron rate	Total neutron num. of	MONITOR	Neutron rate of	peak [ToF]	
		h	min	sec		h	min	sec					measured	calculated		measured	calculated	MONITOR	[IOF]	
5	23/06/2015	14	48	45	23/06/2015	15	19	5	1800.01	1820	297.505	296.999	320016	319559	177.786	1442810	1440117	801.556	295	-1443
5	23/06/2015	15	19	7	23/06/2015	15	35	36	968.446	989	296.435	297.002	171684	171930	177.278	773367	774815	798.565	295	-1443
											Average				Average			Average		
											296.97				177.53			800.06		
											Dev. Stand.				Dev. Stand.			Dev. Stand.		
											0.76				0.4			2.11		
											Percent. err.				Percent. err.			Percent. err.		
											0.25				0.20			0.264		

# **Cell 1 at ≃ 150 K**

											[File: 1234	60_123463	s.hdf]							
Wavelength [Å]	Star	t tim	е		End	d tim	е		Duratio	on [sec]	Temperature	Regulation	DetS	um	DetRate	MonSun	ı	MonRate	Elastic	SRot
of incident neutron	Day		Time		Day		Time		measured	calculated	[K]	Temp. [K]	Total num. o	f neutron	Neutron rate	Total neutron num. o	f MONITOR	Neutron rate of	peak	
		h	min	sec		h	min	sec					measured	calculated		measured	calculated	MONITOR	[ToF]	
											COOL	LING to 150K								
5	23/06/2015	10	45	28	23/06/2015	10	46	54	65.982	86	149.924	150.004	10394		157.528	52941		802.355	295	-1443
											COOL	ED at ≈ 150 K								
5	23/06/2015	10	47	16	23/06/2015	11	17	36	1800.01	1820	149.62	150	282721	281364	157.066	1.43927E+06	1438908	799.587	295	-1443
5	23/06/2015	11	17	39	23/06/2015	11	47	59	1800.01	1820	149.993	149.999	280921	281364	156.066	1.237E+06	1438908	799.164	295	-1443
5	23/06/2015	11	48	1	23/06/2015	12	11	7	1366.02	1386	150.365	150	212832	213526	155.805	1.09201E+06	1091981	799.415	295	-1443
											Average				Average			Average		
											150.0				156.3			799.4		
											Dev. Stand.				Dev. Stand.			Dev. Stand.		
											0.4				0.7			0.2		
											Percent. err.				Percent. err.			Percent. err.		
											0.2				0.4			0.03		

# **Cell 4 at ≃ 150 K**

											[File: 1234	67_123470	D.hdf]							
Wavelength [Å]		Start time			End time				Duratio	on [sec]	Temperature	Regulation	DetSum		DetRate	MonSum		MonRate	Elastic	SRot
of incident neutron	Day	Time			Day		Time		measured	calculated	[K]	Temp. [K]	Total num. of neutron		Neutron rate	Total neutron num. of MONITOR		Neutron rate of	peak [ToF]	
		h	h min sec			h	min sec						measured	calculated	1	measured	calculated	MONITOR	LIOF	
											COOL	ING to 150K								
5	23/06/2015	13	2	3	23/06/2015	13	3	10	47.1919	67	149.933	150.005	6379		135.172	37625		797.277	295	-1443
											COOL	ED at ≃ 150 K								
5	23/06/2015	13	3	27	23/06/2015	13	33	47	1800.01	1820	149.508	150.003	240371	242425	133.539	1.4343E+06	1411067	796.827	295	-1443
5	23/06/2015	13	33	50	23/06/2015	14	4	10	1800.01	1820	149.976	149.998	239265	242425	132.924	1.4353E+06	1411067	797.384	295	-1443
5	23/06/2015	14	5	12	23/06/2015	14	6	0	27.0687	48	149.989	150.002	3724	3646	137.576	20506	21220	757.554	295	-1443
											Average				Average			Average		
											149.8				135			784		
											Dev. Stand.				Dev. Stand.			Dev. Stand.		
											0.3				3			23		
											Percent. err.				Percent. err.			Percent. err.		
											0.2				1.9			3		

# Vanadium 0.5 mm

												[File: 12	3535_1235	536.hdf]							
Wavelength [Å] Start time				End time				Duratio	n [sec] Te	Temperature	Regulation	DetSu	DetSum		MonSum		MonRate	Elastic	SRot		
of incident neutron	Day	Time				Day		Time		measured	calculated	[K]	Temp. [K]	Total num. of neutron		Neutron rate	Total neutron num. of MONITOR		Neutron rate of	peak	
		h	mir	se	С		h	min	sec					measured	calculated		measured	calculated	MONITOR	[ToF]	
5	24/06/2015	12	2 34	1 49	9 24	4/06/2015	13	5	9	1800.01	1820	164.226	155.736	1.81368E+06	1.81268E+06	1007.59	1.43279E+06	1.43607E+06	795.988	295	-1443
5	24/06/2015	13	3 !	5 1 <sup>-</sup>	1 24	4/06/2015	13	14	53	561.5	582	160.242	154.75	565145	5.65453E+05	1006.49	448995	4.47971E+05	799.635	295	-1443
												Average				Average			Average		
												162				1007.0			798		
												Dev. Stand.				Dev. Stand.			Dev. Stand.		
												3				0.8			3		
												Percent. err.				Percent. err.			Percent. err.		
												2				0.08			0.3		