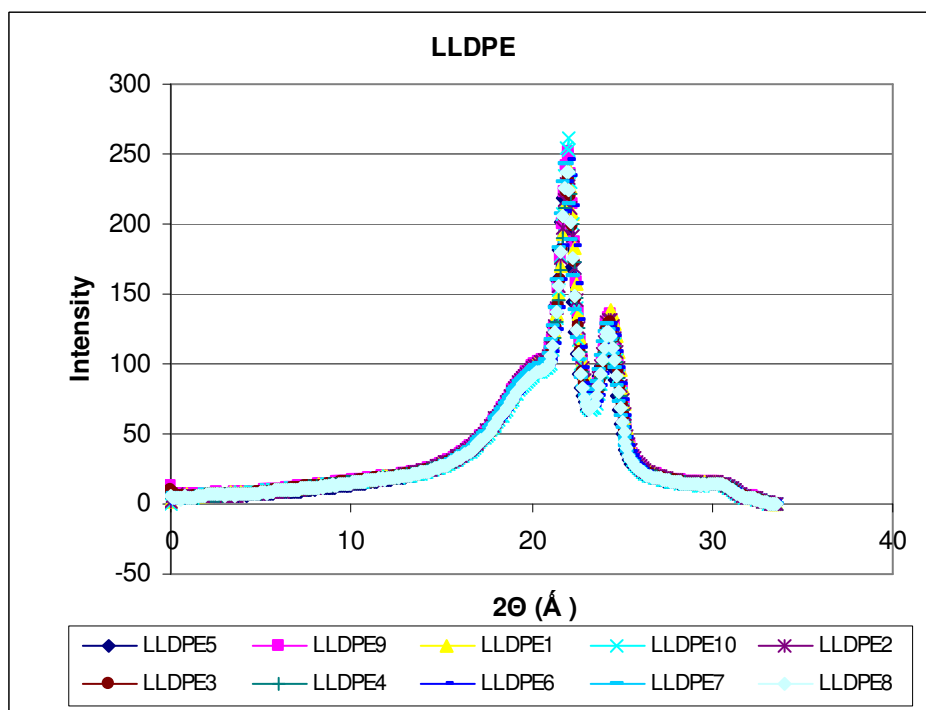
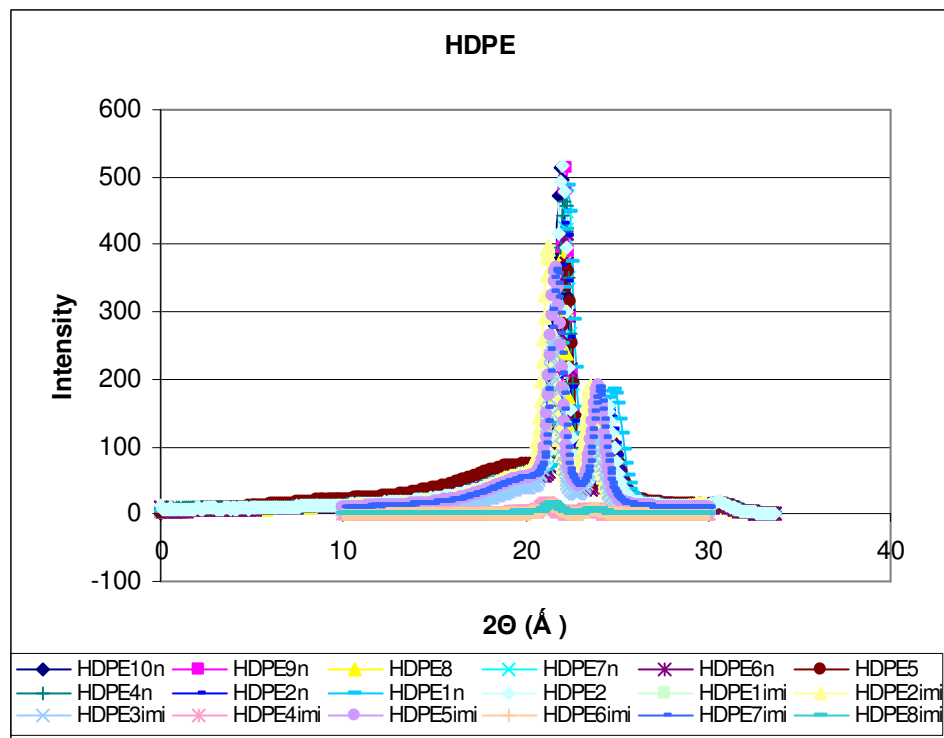
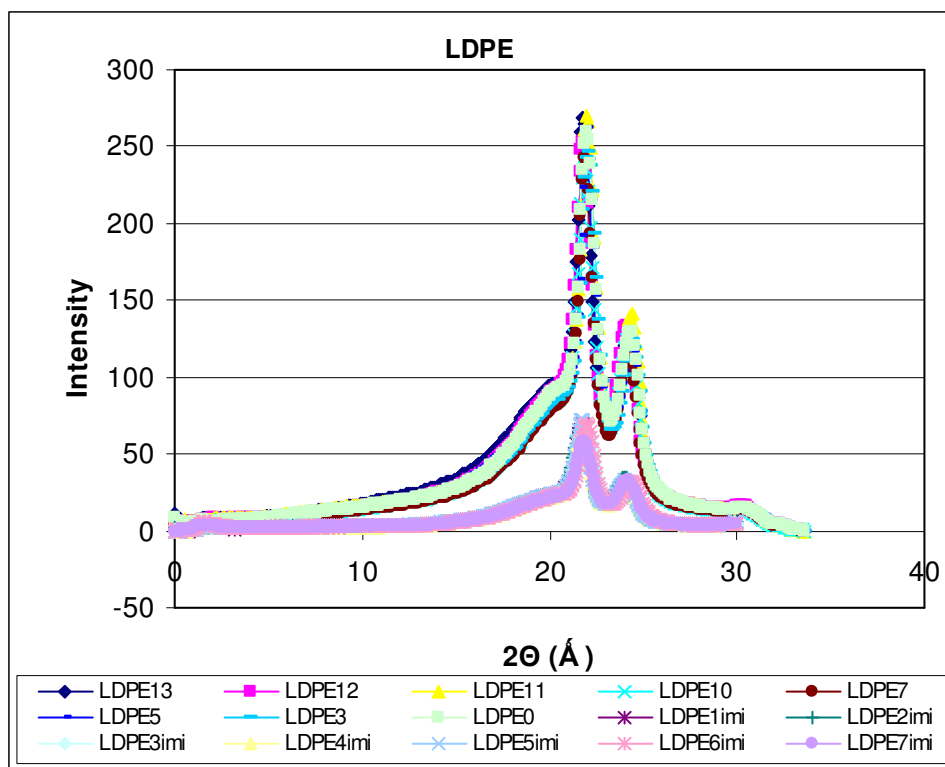
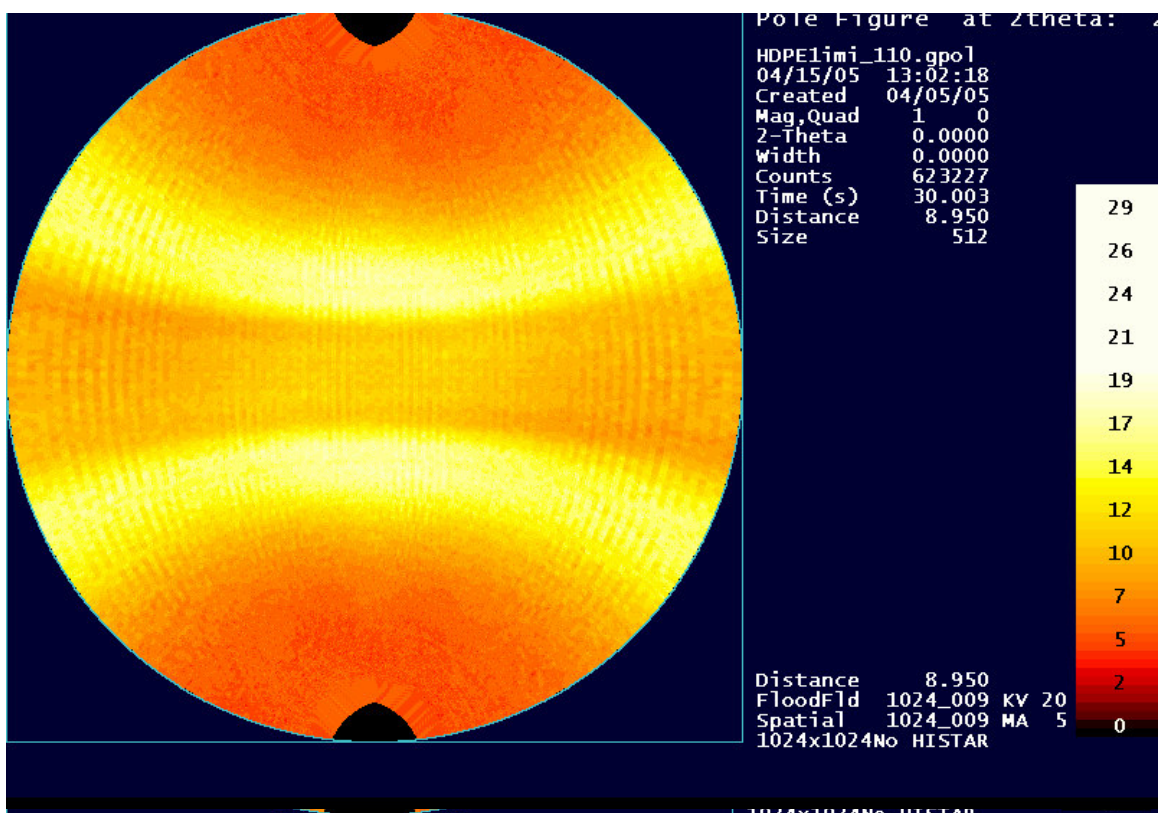
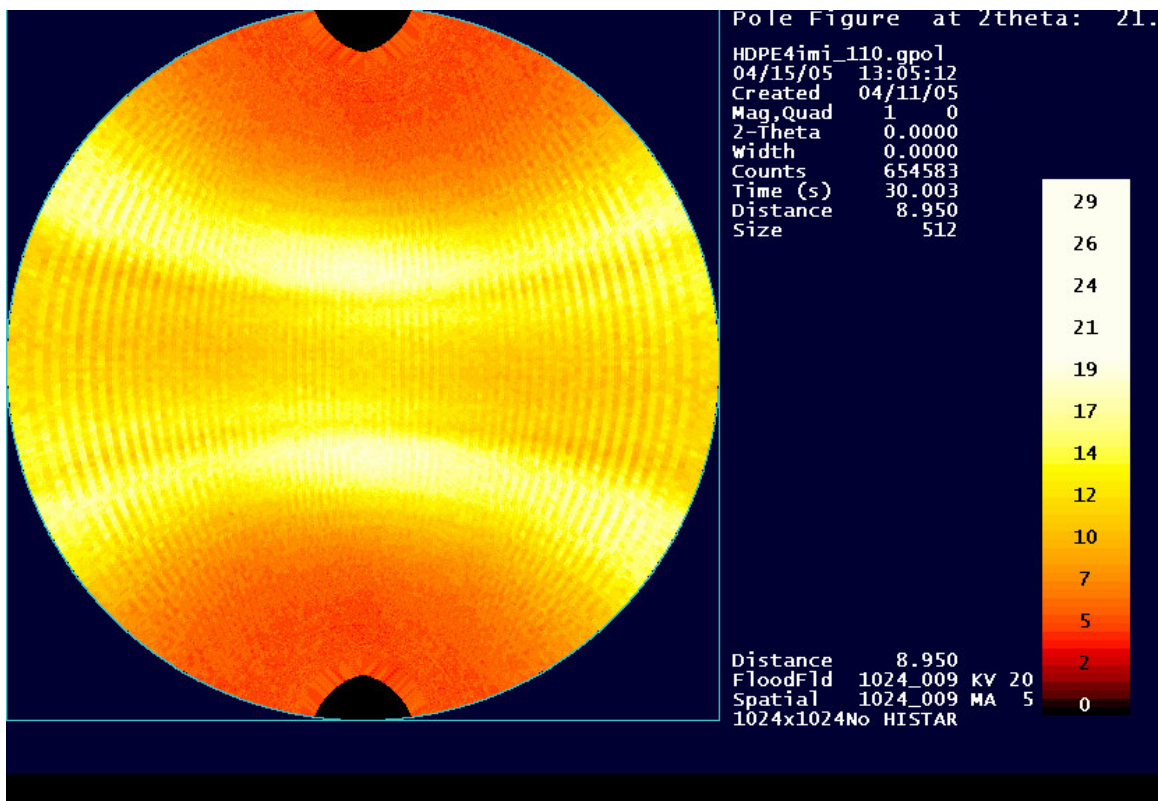


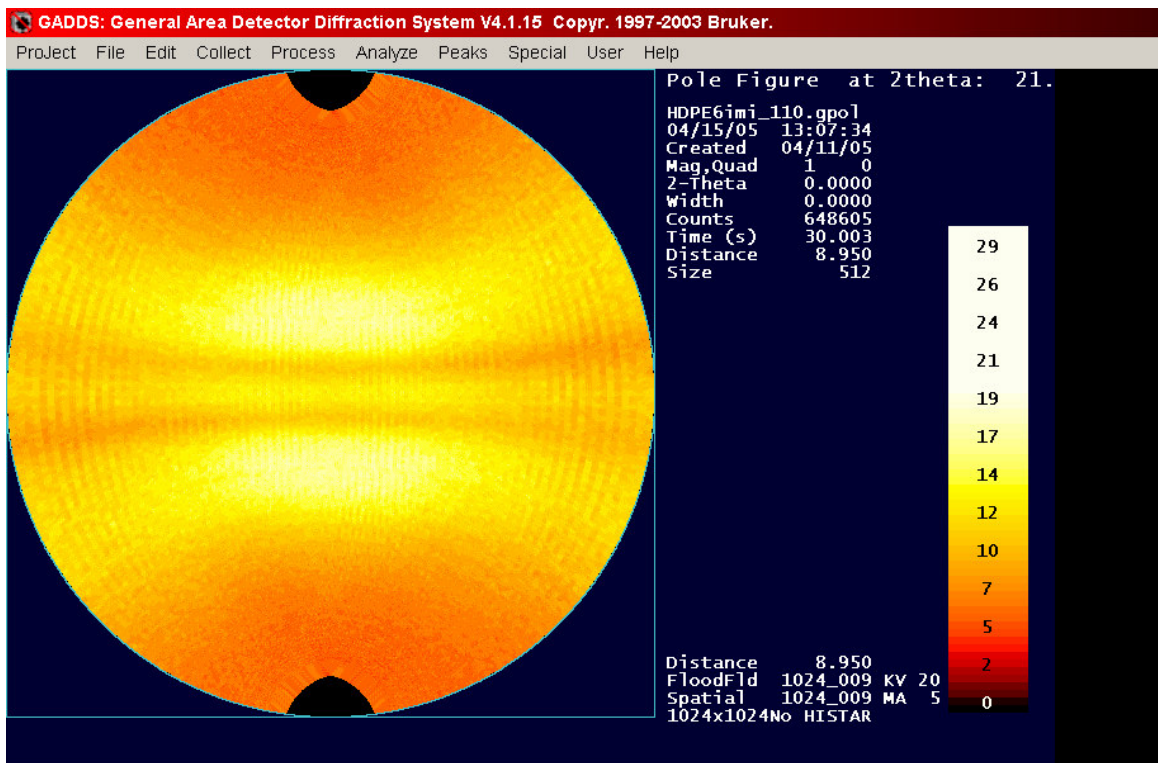
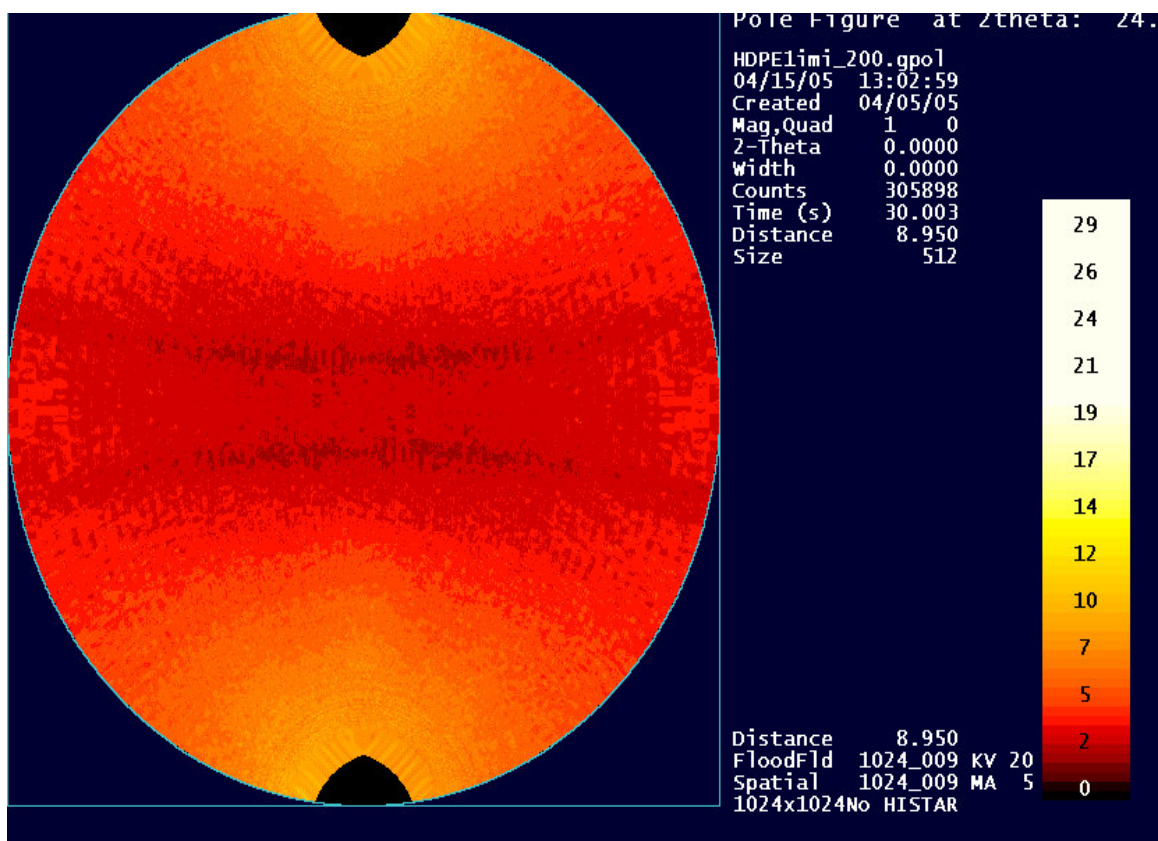


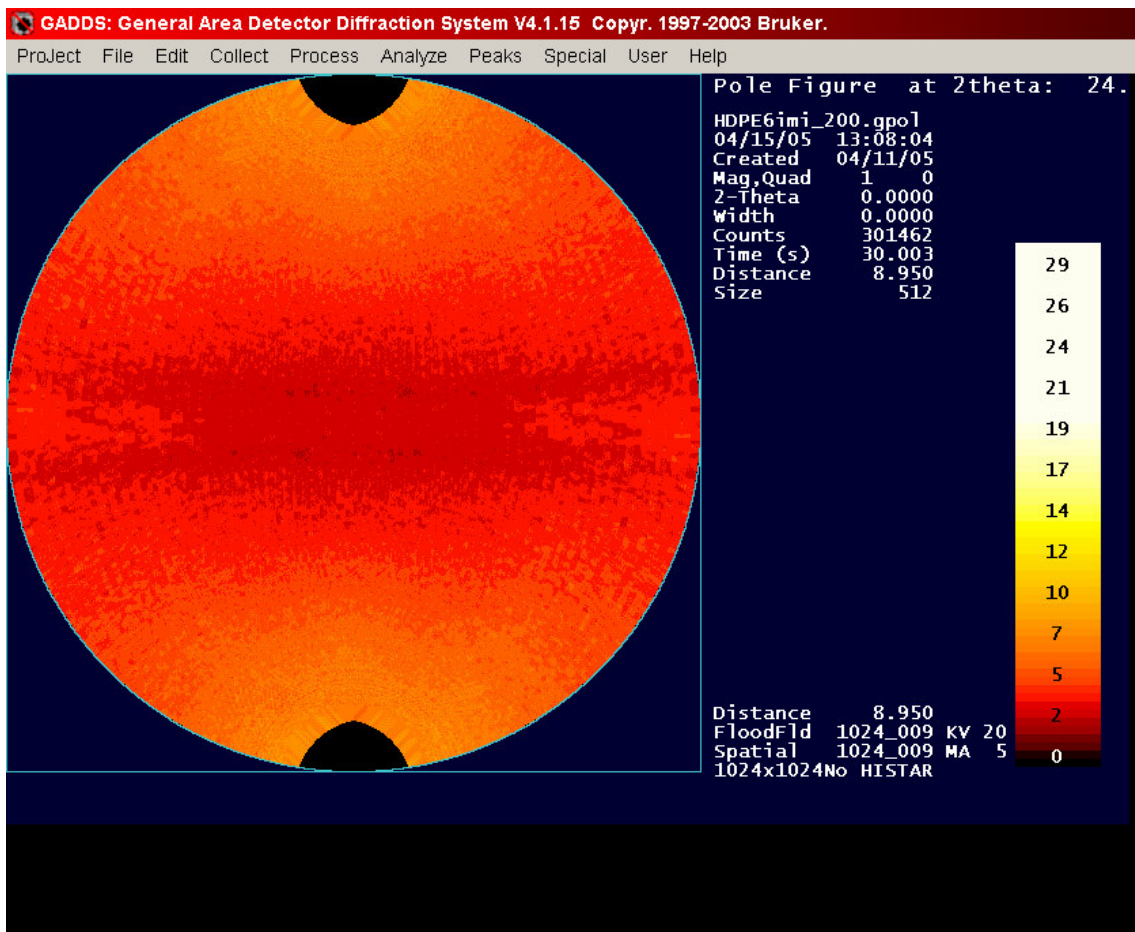


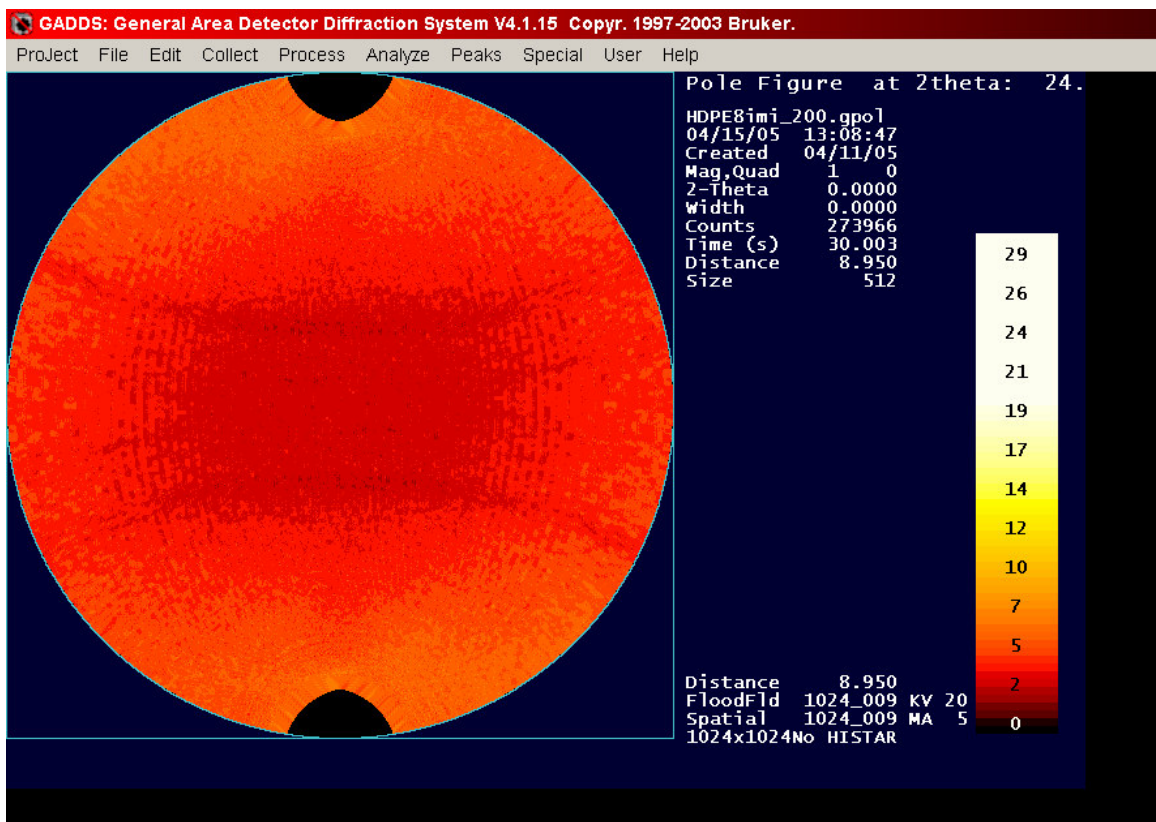


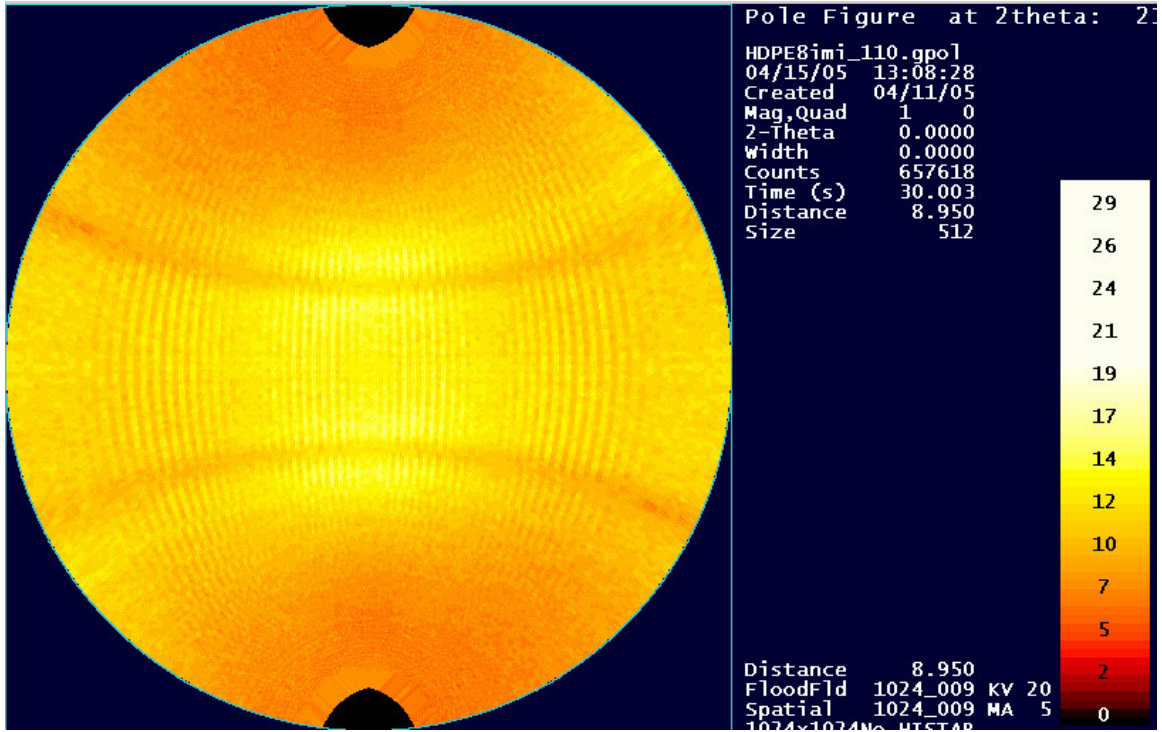
	weight percent of Crystallinity $X_{Cryst} = A_c / (A_c + A_a)$	FWHM		2 θ the scattering angle of			Area remaining under			Crystal sizes		Inter crystallite separation @ Amorph. $R = 5 \lambda / (8 \sin \theta)$
		full-width at half maximum		crystalline peaks		amorphous hump	crystalline peaks		amorphous hump (A _a)	$P = 0.89 / (\beta \cos \theta)$	$L = 0.94 / (\beta \cos \theta)$	
		First, second peaks		First, second			(A _c)			$\theta @ (110)$	$\theta @ (200)$	
LDPE1	0.3399	0.885	1.118	22.05	24.45	21.02	135.19	106.34	468.96	36.17	30.37	0.5275
LDPE2	0.3388	0.903	1.138	22.01	24.38	20.97	132.28	103.15	459.51	35.45	29.83	0.5289
LDPE3	0.3376	0.882	1.066	22.05	24.42	21.00	128.71	95.55	440.02	37.59	31.86	0.5283
LDPE4	0.3368	0.886	1.062	22.04	24.39	20.99	134.11	90.90	443.04	37.39	31.99	0.5284
LDPE5	0.3351	0.889	1.093	21.84	24.22	20.86	126.55	84.65	419.12	36.83	31.05	0.5317
LDPE6	0.3416	0.832	1.051	22.07	24.45	21.02	138.07	92.30	443.96	38.47	32.33	0.5276
LDPE7	0.3377	0.851	1.063	21.88	24.23	20.87	136.57	91.78	447.93	37.59	31.95	0.5314
LDPE8	0.3419	0.829	1.059	21.96	24.32	20.93	131.69	89.49	425.68	38.63	32.07	0.5298
LDPE9	0.3456	0.875	1.110	22.04	24.45	21.01	144.66	102.87	468.78	36.59	30.59	0.5280
LDPE10	0.3512	0.805	1.040	22.00	24.41	20.99	145.40	89.55	434.07	39.77	32.66	0.5285
LDPE0	0.3800	0.887	1.060	22.02	24.35	21.09	161.61	93.68	416.60	36.11	32.03	0.5261
LDPE3	0.3873	0.880	1.033	22.08	24.41	21.11	155.89	88.12	386.08	35.96	32.88	0.5254
LDPE5	0.3638	0.808	1.078	21.95	24.30	20.92	149.42	84.81	409.60	39.63	31.50	0.5301
LDPE7	0.3650	0.786	1.008	21.94	24.27	21.09	135.39	75.28	366.58	40.71	33.69	0.5259
LDPE10	0.3804	0.877	1.036	21.93	24.25	20.99	145.25	90.49	384.02	36.48	32.78	0.5283
LDPE11	0.3836	0.855	1.036	22.03	24.37	21.12	162.58	101.22	423.99	37.43	32.79	0.5252
LDPE12	0.4081	0.934	1.117	21.83	24.15	20.80	167.20	105.18	395.14	34.28	30.38	0.5331
LDPE13	0.3640	0.797	1.072	21.82	24.24	20.84	150.12	92.07	423.10	40.16	31.66	0.5323
LDPE11mi	0.3355	0.884	1.109	21.75	24.12	20.55	44.57	20.19	128.25	36.19	30.60	0.5395
LDPE2mi	0.3478	0.913	1.092	21.67	24.04	20.55	42.92	26.42	130.00	35.06	31.08	0.5396
LDPE3mi	0.3056	0.908	1.109	22.00	24.38	20.81	41.12	16.02	129.82	35.25	30.62	0.5330
LDPE4mi	0.3447	0.851	1.089	21.71	24.09	20.61	41.44	22.47	121.50	37.61	31.76	0.5380
LDPE5mi	0.3354	0.821	1.051	21.74	24.10	20.57	43.00	22.92	130.59	38.98	32.29	0.5390
LDPE6mi	0.3410	0.857	1.068	21.99	24.38	20.85	43.45	22.74	127.89	37.37	31.80	0.5320
LDPE7mi	0.3370	0.908	1.086	21.86	24.23	20.70	35.97	24.64	119.25	35.25	31.25	0.5368
HDPE11mi	0.5619	0.718	0.792	21.35	23.71	20.53	9.52	4.97	11.29	44.52	42.83	0.5402
HDPE2mi	0.5625	0.720	0.815	21.26	23.57	20.39	256.53	134.82	304.40	44.40	41.62	0.5438
HDPE3mi	0.5280	0.700	0.802	21.53	23.90	20.75	157.77	77.70	210.50	45.73	42.32	0.5344
HDPE4mi	0.5669	0.744	0.832	21.18	23.54	20.34	10.11	5.68	12.07	42.95	40.73	0.5451
HDPE5mi	0.5618	0.714	0.799	21.67	24.01	20.75	235.09	134.46	288.22	44.79	42.50	0.5344
HDPE6mi	0.5680	0.757	0.821	21.40	23.77	20.60	9.35	4.83	10.78	42.24	41.32	0.5384
HDPE7mi	0.5733	0.723	0.806	21.60	23.94	20.65	234.74	132.06	272.99	44.27	42.09	0.5369
HDPE8mi	0.5827	0.803	0.861	21.49	23.85	20.56	10.72	5.78	11.81	39.84	39.39	0.5394
HDPE1n	0.6815	0.730	1.015	22.38	24.86	20.78	341.03	147.76	243.45	43.90	33.50	0.5336
HDPE1	0.6323	0.685	0.962	21.99	24.46	20.78	323.83	134.57	266.53	46.73	35.30	0.5336
HDPE2n	0.5694	0.668	0.859	22.09	24.55	21.01	268.12	109.39	285.50	48.68	39.56	0.5279
HDPE4n	0.6037	0.786	0.921	22.11	24.53	21.09	340.80	112.63	297.67	40.72	36.88	0.5260
HDPE5	0.4922	0.682	0.890	22.34	24.82	20.65	219.16	68.35	236.64	46.99	38.19	0.5369
HDPE6n	0.5532	0.628	0.828	22.17	24.63	21.05	241.55	63.74	246.53	51.00	41.05	0.5289
HDPE7n	0.5809	0.689	0.948	22.20	24.67	20.78	276.62	72.44	273.27	46.48	36.85	0.5336
HDPE8	0.5328	0.678	0.893	22.00	24.42	20.78	232.22	51.10	248.41	47.19	38.03	0.5336
HDPE9n	0.5815	0.685	0.934	22.21	24.67	20.78	310.43	76.44	278.48	46.78	36.36	0.5336
HDPE10n	0.5470	0.644	0.897	21.93	24.36	20.93	302.64	73.23	311.34	49.68	37.85	0.5298











LDPE								
	a-			b-			c-	
LDPE_0	M(110)	-0.149	M(200)	0.0968	M(020)	-0.25473	M(002)	0.157934
	T(110)	0.0466	T(200)	-0.0279	T(020)	0.085569	T(002)	-0.05767
	N(110)	0.102	N(200)	-0.0689	N(020)	0.184483	N(002)	-0.11558
	sum	-0.0004		0		0.015318		-0.01532
LDPE_3	M(110)	-0.0963	M(200)	0.116	M(020)	-0.18656	M(002)	0.070558
	T(110)	0.0156	T(200)	-0.0384	T(020)	0.045112	T(002)	-0.00671
	N(110)	0.0807	N(200)	-0.0776	N(020)	0.157346	N(002)	-0.07975
	sum	0		0		0.0159		-0.0159
LDPE_7	M(110)	-0.132	M(200)	0.126	M(020)	-0.24299	M(002)	0.116987
	T(110)	0.024	T(200)	-0.0638	T(020)	0.068652	T(002)	-0.00485
	N(110)	0.108	N(200)	-0.0625	N(020)	0.190368	N(002)	-0.12787
	sum	0		-0.0003		0.016034		-0.01573
LDPE_10	M(110)	-0.13	M(200)	0.12	M(020)	-0.2374	M(002)	0.117403
	T(110)	0.0719	T(200)	-0.0178	T(020)	0.117906	T(002)	-0.10011
	N(110)	0.0579	N(200)	-0.103	N(020)	0.135463	N(002)	-0.03246
	sum	-0.0002		-0.0008		0.015965		-0.01517
LDPE_11	M(110)	-0.131	M(200)	0.124	M(020)	-0.24064	M(002)	0.11664
	T(110)	0.045	T(200)	-0.0446	T(020)	0.090676	T(002)	-0.04608
	N(110)	0.086	N(200)	-0.0792	N(020)	0.165775	N(002)	-0.08658
	sum	0		0.0002		0.015811		-0.01601
LDPE_12	M(110)	-0.118	M(200)	0.136	M(020)	-0.22706	M(002)	0.091057
	T(110)	0.0888	T(200)	-0.0198	T(020)	0.143401	T(002)	-0.1236
	N(110)	0.0296	N(200)	-0.116	N(020)	0.100049	N(002)	0.015951
	sum	0.0004		0.0002		0.016393		-0.01659
HDPE (Rotation 90)								
HDPE_1N	M(110)	-0.144	M(200)	0.274	M(020)	-0.32636	M(002)	0.052362
	T(110)	0.104	T(200)	-0.160	T(020)	0.227962	T(002)	-0.06796
	N(110)	0.040	N(200)	-0.114	N(020)	0.1143	N(002)	-0.0003
	sum	0		0		0.0159		-0.0159
HDPE_2	M(110)	-0.162	M(200)	0.232	M(020)	-0.33387	M(002)	0.101865
	T(110)	0.121	T(200)	-0.145	T(020)	0.246032	T(002)	-0.10103
	N(110)	0.0401	N(200)	-0.0868	N(020)	0.102334	N(002)	-0.01553
	sum	-0.0009		0.0002		0.014501		-0.0147
HDPE_2N	M(110)	-0.153	M(200)	0.243	M(020)	-0.32566	M(002)	0.082661
	T(110)	0.105	T(200)	-0.154	T(020)	0.226746	T(002)	-0.07275
	N(110)	0.0481	N(200)	-0.0893	N(020)	0.115094	N(002)	-0.02579
	sum	1E-04		-0.0003		0.016179		-0.01588
HDPE_4N	M(110)	-0.175	M(200)	0.198	M(020)	-0.33765	M(002)	0.139652
	T(110)	0.128	T(200)	-0.15	T(020)	0.25845	T(002)	-0.10845
	N(110)	0.0475	N(200)	-0.0476	N(020)	0.095652	N(002)	-0.04805
	sum	0.0005		0.0004		0.01645		-0.01685

a- b- c-								
HDPE_6N	M(110)	-0.217	M(200)	0.113	M(020)	-0.36095	M(002)	0.247949
	T(110)	0.151	T(200)	-0.116	T(020)	0.276796	T(002)	-0.1608
	N(110)	0.0665	N(200)	0.0027	N(020)	0.100915	N(002)	-0.10362
	sum	0.0005		-0.0003		0.016762		-0.01646
HDPE_7N	M(110)	-0.229	M(200)	0.0657	M(020)	-0.35736	M(002)	0.291657
	T(110)	0.179	T(200)	-0.0969	T(020)	0.309056	T(002)	-0.21216
	N(110)	0.0494	N(200)	0.0311	N(020)	0.063373	N(002)	-0.09447
	sum	-0.0006		-0.0001		0.015071		-0.01497
HDPE_9N	M(110)	-0.234	M(200)	0.0398	M(020)	-0.3531	M(002)	0.313304
	T(110)	0.181	T(200)	-0.0888	T(020)	0.308361	T(002)	-0.21956
	N(110)	0.0531	N(200)	0.0489	N(020)	0.060833	N(002)	-0.10973
	sum	1E-04		-0.0001		0.01609		-0.01599
LLDPE_1	M(110)	-0.0974	M(200)	0.155	M(020)	-0.20553	M(002)	0.050526
	T(110)	-0.0021	T(200)	-0.0511	T(020)	0.024997	T(002)	0.026103
	N(110)	0.0995	N(200)	-0.104	N(020)	0.196473	N(002)	-0.09247
	sum	0		-0.0001		0.015945		-0.01584
LLDPE_9	M(110)	-0.0982	M(200)	0.141	M(020)	-0.20046	M(002)	0.059457
	T(110)	0.0073	T(200)	-0.0481	T(020)	0.037347	T(002)	0.010753
	N(110)	0.0909	N(200)	-0.0927	N(020)	0.178921	N(002)	-0.08622
	sum	0		0.0002		0.015811		-0.01601
LDPE_2	M(110)	-0.179	M(200)	-0.0094	M(020)	-0.25112	M(002)	0.26052
	T(110)	0.0063	T(200)	-0.0305	T(020)	0.028054	T(002)	0.002446
	N(110)	0.173	N(200)	0.0399	N(020)	0.239403	N(002)	-0.2793
	sum	0.0003		0		0.016337		-0.01634
LDPE_5	M(110)	-0.122	M(200)	0.133	M(020)	-0.23154	M(002)	0.098545
	T(110)	0.0426	T(200)	-0.0597	T(020)	0.093906	T(002)	-0.03421
	N(110)	0.0791	N(200)	-0.0735	N(020)	0.153191	N(002)	-0.07969
	sum	-0.0003		-0.0002		0.015552		-0.01535
LDPE_6	M(110)	-0.127	M(200)	0.0961	M(020)	-0.22239	M(002)	0.126293
	T(110)	0.0443	T(200)	-0.0487	T(020)	0.091482	T(002)	-0.04278
	N(110)	0.0822	N(200)	-0.0474	N(020)	0.146082	N(002)	-0.09868
	sum	-0.0005		0		0.015172		-0.01517
HDPE_5	M(110)	-0.188	M(200)	0.148	M(020)	-0.33431	M(002)	0.186314
	T(110)	0.152	T(200)	-0.199	T(020)	0.315212	T(002)	-0.11621
	N(110)	0.036	N(200)	0.0283	N(020)	0.04511	N(002)	-0.07341
	sum	0		-0.0227		0.026008		-0.00331
HDPE_8	M(110)	-0.252	M(200)	-0.0235	M(020)	-0.35112	M(002)	0.374622
	T(110)	0.185	T(200)	-0.0627	T(020)	0.302562	T(002)	-0.23986
	N(110)	0.0662	N(200)	0.0862	N(020)	0.063296	N(002)	-0.1495
	sum	-0.0008		0		0.014735		-0.01474

LDPE_9	M(110)	0.0599	M(200)	0.159	M(020)	0.021706	M(002)	-0.18071
	T(110)	-0.106	T(200)	-0.0603	T(020)	-0.12217	T(002)	0.182474
	N(110)	0.0466	N(200)	-0.0985	N(020)	0.117007	N(002)	-0.01851
	sum	0.0005		0.0002		0.016539		-0.01674
LDPE_10	M(110)	-0.112	M(200)	0.161	M(020)	-0.22945	M(002)	0.068454
	T(110)	0.035	T(200)	-0.0766	T(020)	0.090366	T(002)	-0.01377
	N(110)	0.0771	N(200)	-0.0839	N(020)	0.154911	N(002)	-0.07101
	sum	0.0001		0.0005		0.015823		-0.01632
LDPE_13	M(110)	-0.0896	M(200)	0.204	M(020)	-0.21599	M(002)	0.01199
	T(110)	0.0622	T(200)	-0.0729	T(020)	0.128319	T(002)	-0.05542
	N(110)	0.0274	N(200)	-0.131	N(020)	0.103526	N(002)	0.027474
	sum	0		1E-04		0.015855		-0.01596
LLDPE_2	M(110)	-0.0942	M(200)	0.0764	M(020)	-0.16587	M(002)	0.089467
	T(110)	-0.008	T(200)	-0.0031	T(020)	-0.00497	T(002)	0.008067
	N(110)	0.102	N(200)	-0.0733	N(020)	0.186442	N(002)	-0.11314
	sum	-0.0002		0		0.015609		-0.01561
LLDPE_3	M(110)	-0.0914	M(200)	0.0576	M(020)	-0.15342	M(002)	0.095819
	T(110)	-0.0175	T(200)	0.0138	T(020)	-0.02632	T(002)	0.012523
	N(110)	0.109	N(200)	-0.0714	N(020)	0.195788	N(002)	-0.12439
	sum	0.0001		0		0.016046		-0.01605
LLDPE_4	M(110)	-0.0789	M(200)	0.0476	M(020)	-0.13077	M(002)	0.083167
	T(110)	-0.022	T(200)	0.0177	T(020)	-0.03461	T(002)	0.016912
	N(110)	0.101	N(200)	-0.0653	N(020)	0.181424	N(002)	-0.11612
	sum	0.0001		0		0.016046		-0.01605
LLDPE_5	M(110)	0.0476	M(200)	0.141	M(020)	0.011814	M(002)	-0.15281
	T(110)	0.0177	T(200)	0.0102	T(020)	0.026527	T(002)	-0.03673
	N(110)	-0.0653	N(200)	-0.151	N(020)	-0.02253	N(002)	0.17353
	sum	0		0.0002		0.015811		-0.01601
LLDPE_6	M(110)	-0.0976	M(200)	0.0711	M(020)	-0.16846	M(002)	0.097357
	T(110)	0.0006	T(200)	-0.0036	T(020)	0.007777	T(002)	-0.00418
	N(110)	0.0907	N(200)	-0.0675	N(020)	0.167408	N(002)	-0.09991
	sum	-0.0063		0		0.006728		-0.00673
LLDPE_7	M(110)	-0.0103	M(200)	0.129	M(020)	-0.06714	M(002)	-0.06186
	T(110)	0.0071	T(200)	0.0027	T(020)	0.014435	T(002)	-0.01713
	N(110)	0.0032	N(200)	-0.132	N(020)	0.068738	N(002)	0.063262
	sum	0		-0.0003		0.016034		-0.01573
LLDPE_8	M(110)	-0.0888	M(200)	0.0908	M(020)	-0.16442	M(002)	0.073617
	T(110)	0.0083	T(200)	-0.0198	T(020)	0.026201	T(002)	-0.0064
	N(110)	0.0804	N(200)	-0.0709	N(020)	0.153926	N(002)	-0.08303
	sum	-0.0001		0.0001		0.01571		-0.01581