III. DATA FOR SECTORAL REPORT VOL. H, FLOOD CONTROL

1. INTRODUCTION

This data book presents the river cross section data and the calculation results of flood water surface profile of the Iguaçu river from Foz do Areia to São Mateus do Sul by non-uniform flow which were used for the flood inundation analysis and flood control planning of União da Vitoria. The calculation was executed by the computer program, WATER SURFACE PROFILE CALCULATION (T.DAN) developed by Nippon Koei Co.,Ltd. by the use of UNIX computer system

2. OUTPUT OF NON-UNIFORM FLOW CALCULATION

The outputs of selected calculation cases are compiled with the following sections:

2.1 Without Excavation: Cases A1 to A5

2.2 Case With Excavation - 1: Cases B1 to B3

2.3 Case With Excavation - 2: Cases C1 to C3

The summary of the outputs is presented as follows:

Case	flood model	CN011	CN153	JT141	CF271	JS251
<u>A1</u>	1983year	744.000	746.743	750.072	758.979	764.334
A2	1983year	742.000	746.255	749.954	758.981	764.334
A3	1983year	739.000	746.141	749.930	758.979	764.334
A4	1992year	742.000	745.447	748.700	757.671	763.385
A5	1992year	739.000	745.314	748.673	757.670	763.285

* CN011 :Foz do Areia D1-77
CN153 :Porto Vitoria BAT-1B
JT141 :Uniao da Vitoria 14.GPF

CF271 :Fluviopolis FINFL-01.ENT

JS251 :Sao Mateus do Sul S-25.GPF

Case	flood model	CN011	SC153	JT141	CF271	JS251
B1	1983year	744.000	746.119	749.841	758.979	764.334
B2	1983year	742.000	745.435	749.719	758.975	764.334
B3	1983year	739.000	745.264	749.696	758.975	764.334

SC153 :Porto Vitoria BAT-1B

Case	flood model	CN011	FN153	JT141	CF271	JS251
CI	1983year	744.000	745.702	749.525	758.969	764.334
C2	1983year	742.000	744.699	749.377	758.965	764.335
C3	1983year	739.000	744.167	749.341	758.965	764.335

FN153 :Porto Vitoria

BAT-1B

2.1 Without Excavation

A.	198	Al 1983 744.0	parana pjt.	without 83year	excavation	c a							
					-		ř						
Se	sec name	dis	듄		Į.	Max & D.	Ave.velo	compined	Energy	W.head	Frudes	decision	0
	•	Ê	(s/ w)	(HP H)	(m 45)	Œ)	(m/s)	Coeffici	modified	(TP m)			4
	CN011	9230.000	8358,000	615,000	744,000	129.000	.169	030	2.132	744,002	900	~	٠
		٠.	8358,000	625.000	744.001	119.001	.132	.030	1.190	744.002	900	: N	
	CN031	'	8358,000	635.000	744.001	100,001	.186	0.030	1.164	744.003	800	ıN	
	CN041	10000,000	8358.000	669,000	744.004	75.004	174	.030	1.096	744.006	800.	i (V)	٠
	CN051	11540.000	8358.000	675,000	744.003	69.003	.345	.030	1.151	744.010	.018	~	
	CN061	2160,000	8358.000	700.550	744.012	43.462	.405	030	1.11	744.021	.026	~	
	CN071	3840,000		705.190	743.956	38.766	1,199	.030	1.132	744 039	.086	۸:	
	CN081			713.710	744.061	30.351	517	.030	1.075	744.075	.038	Λ;	2
	0000			714.940	744.065	29,125	. 446	.030	964.4	744.077	.036	Ci	
	20,20	1420,000	•	717.280	743.939	26.659	1.786	.030	1.083	744.115	.142	~	
	22.2			722,160	744,032	21.872	1.752	.030	1.025	744,193	.136	7	
	CN121	رن		718.180	743.805	25.625	2.685	.030	1.090	744,206	.255.	~	
	28.131	640.000		732.270	745.014	12,744	2,145	.050	1.061	745.263	.225	~	
	ij.	200.000		733.050	745.375	\sim	3.790	.050	1.056	746.149	.437	72	
	CN151		•	730,370	746.637	16,267	1.519	.050	1.138	746.771	.204	74	
	CN152		•	738.500	746.622	8.122	1.928	.050	1.011	746.814	.252	~	: :'
	03153	000.09		735.150	746.743	11.593	1.462	050.	1.041	746.856	.180	7	
	55185	. '		734.239	746.716	12.477	1.746	.050	1.055	746.880	. 196	∷ ⊘i	
	IS C	:	5122.000	731.410	746.730	15.320	1.696	050.	1.131	746,896	.206	~	1.
	1000	1200.000	5122.000	731.720	746.759	15.039	1.704	.032	1.304	746 952	.209	~	
	36.6	000.000	5122.000	736.150	746.939	10.789	1.546	.033	1.518	747.124	.254	2	
, ,	CNSO	<i>-</i>	5777.000	736.890	747.012	10.121	1.475	.033	1.513	747 179	.241	N (٠.
	CN211	1.5		734.990	747.321	12,331	886	040	2.2.2	747 456	727	VΥ	
	CN221			732,710	747.505	14.795	472	.061	7.896	747.595	211	1 (1)	
	CN231	4	•	735.690	747.619	11,929	1.374	.033	1.508	747 764	.201	1 (1	
	ZN241	٠.	5122,000	738,000	747.634	9.634	2.339	.037	2.455	748.319	.568	7	
•	CN251	:	5122.000	733.500	748.296	14.796	985	.040	2,795	748.434	.216-	8	
	CN261	2170.000	5122,000		748.162	18.563	1.076	.053	5.315	748.476	.341	7	;
) <u>-</u>	CN271	230,000	•		748.647	13.787	.804	.043	3.617	748.766	.207	8	. ,
1	CNZSI	1200.000	5122,000	734.630	748.665	14.035	804	.043	3,615	748.784	.207	71	1
	CN291	1400.000	•	736.890	748.761	11.871	1.090	.041	2.487	748.912	.224	~	• • •
-1	70000	1368.600		735.190	748.952	13.762	.725	.051	4.589	749.075	.209	~	
	1101	000.000	•	737.580	149.104	11.624	944	.038	676-1	749 193	.151	~	
	1	727.300	2777	/38.16/	749,203	11,036	904	.031	1.157	749.251	.110	7	

	CNSII	762.800	5122.	737.070	749.211	12.141	.488	052	4.311	749.263	F	•
	JIO31	737.200		736.558	749.187	12,629	1,132	.037	2.045		192	
	CN321		ĸ.	736.580	749.268	12,688	. 987	038	2.533	. ~	700	
	CT041		5122.000	9	749.295		1.076	.036	1.942	749.409	166	1 0
	CKSS	308,600			749.374	•	.579	048	4.749	5.	177	١ ^
	43052	999.100	5122,000	735.664	749,349	13.685	1.059	0.40	2.278	749,479	175	١ ٩
	JE061	91,700	5122.000	729.825	749.395	19.570	. 945	.054	4.003	5	198	10
• • •	CN341	736.700	5122,000	735.980	749.550	•	300	.062	7.217	8	116	N
	17071	263.400	5122,000	736.606		12.938	.926	.035	1.592	749,614	.127	2
	CN351	735.000	\$122.000	738.550	ò	11.026	. 607	041	2.758	749.628	1140	2
•	JT081	988.400	5122.000	738.224	749,607	11.383	. 907	.033	1.350	749.664	.117	7
•	16015	986.000	5122,000			16.376	1.623	.036	1.834	749.748	.229	2
	7777	890,600	5122.000	•	89	15.426	1.356	.036	1.928	749.861	206	IV
	To CNO	95.800	5122.000	•	749.749	17.909	.810	.054	6.261	749.959	.270	~
	1111	990,300	5122.000	732.826		16,989	1.039	044	2.799	749.969	195	~
-	JT121	955.800	5122.000	739.532	749.969	10.438	1.026	.034	1.569	750.054	155	~
	01131	758.200	5122.	739.756	750.033	10.277	1.133	.034	1.588	750,137	.175	~
	UNC 7	214.300	5122	737.730	750.110	12.380	.619	950	4.744	750,203	.216	^
	1	185,760	4 980	734.524	750.072	15.548	1.208	960.	2.083	750.227	202	~
	CNSST	804.000	4980,000		750.107	13.867	.843	.038	3.762	750.243	772.	· ~
· 1	JT77	296.000	4980,000	8	750.222	11.633	1.096	.033	1.402	750,308	153	۱ ۸
ĦĪ	CF011	712.700	4980.000	739.724	750.290	10.566	.542	620.	2.157	750.323	105	. ^
	37161	990.100	4980.000	738.925	750.274	11.349	1.070	.035	1.530	750,363	150	٠.
3	JT171	1005,700	000*0865.	739.099	750,323	11.224	1.141	.038	2.088	750,461	961.	١,٠
-	ા જ : દેવા જ :	291.500	4980,000	739,138	750.463	11,325	1.057	.037	1.760	750,564	191.	. ~
	CF021	699.200	4980.000	ö	750.551	10,340	. 623	.034	1.487	750.580	760	, r
	41191	998.200	4980.000	739.025	750.510	11.485	1.029	.040	2.174	750.628	177	٠,
	JT201	1002.600	4980.000	•	750.645	10.332	1.025	.032	1.278	750.714	336	٠ ٨
	CF031	3300.000	4980.000	ó	750.722	10.644	. 697	620.	2.284	750.778	138	۷ ،
	CF041	3500.000	4980,000		750.904	14.339	.852	.041	2.781	751,007	187	
	CFOSI	9950.000	4980.000	7	751.186	13.734	.525	.054	5.245	751.260	191.	۸
٠	CF061	4650.000	4980.000		751.839	12.433	.467	.054	960-9	751.907	189	~
	02001	3900.000	4980.000	· •	752,180	11,506	.620	.050	4.587	752.270	361.	2
	10000	2000,000	4980,000		752.492	12,195	.265	.070	7.587	752.519	.113	٧.
	10.00	2000.000	980	4	752.797	11.353	1.059	.041	2.820	752.958	.252	~
	1012	000,000	000.0865	.55	752.976	16.448	1.413	038	2.675	753.249	135.	~
		2/20,000	4980,000	•	753.390	11.177	1.038	.037	2.178	753.510	.250	N
	7777	3250.000	4980,000	742.681	754,008	11.327		.036	1.696	754.132	181	~
	CFIST	3500,000	4980,000		154.361	13.233	.946	.046	3.234	754.509	.223	
	CF141	2250,000	4980.000	2.40	754.766	12.366	. 734	.049	3.969	4	.207	
	CFISI	3250.000	4980.000		755,005	11.382	.494	.054	3.934	'n	131	
	CF161	5050.000	4980.000	•	w	11,359	.770	.038	2.475	755.261	187	
	CF171	3050.000	4980.000		755.587	11.662	1.020	.040	2,602	v	227	16
	CF181	2950.000	4980,000	745.186	755,928	10.742	. 685	.038		755.983	¥ .	
	CF191	4550,000	4980.000	744.830	756.099	11.269	.731	650,	2.792		3 6	4 0
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	.208	244	158	.131	.223	.125	.209	.210	.153	98t.	.160	.202	, 104	101.	.122	.183	.242	158	52.8	.228	.168	165	133	.110	.131	.236	.195	.121	.128	.166	.131	171	.053	.053	.097	.047	.074
	756.557	757,005	757,462	757,559	757.790	757.955	758,351	759.078	759.224	759.340	759.480	759.728	759.886	759.981	760.159	760.333	760.701	761.125	761.614	762.786	763.089	763.340	763.515	763.691	763.762	763.923	764.045	764.146	764.170	764.278	764.324	764.421	764.450	764.456	764,467	764.487	764.500
	5.112	4.146	5.050	2.931	3.490	2.360	1.684	2.261	1.846	1.804	1.603	2.198	1.304	1,504	1.145	1.622	1.201	1.125	3.126	2.050	1.775	1.684	1.458	1.177	1.412	2.475	2.103	1.192	1.243	1.628	1.440	1 695	1.269	1.210	1.578	1.068	1.768
	.054	970	050	.041	.045	.042	.035	.037	.036	.036	.034	620.	.032	.035	.031	.035	.031	.031	.043	.039	.037	.037	.034	.032	.034	.043	.041	.031	.032	.036	.035	.036	.032	.032	.035	020	.038
	.617	.769	.553	.476	.802	. 670	1.306	. 928	.907	.936	. 973	1.091	.766	.721	906	1.045	1.533	1.121	1.969	1.185	.958	1.033	.870	.827	. 883	1.097	1.060	906.	.916	966.	.870	1.001	.378	.382	.579	.367	.439
	12.215	11.746	12.362	11.488	11.693	12.149	11.918	10.733	10.247	10.864	9.981	12.534	10.532	11.374	10,145	9.352	8.476	9.195	9.194	10.379	10.176	11.229	10.510	10.750	10.776	11.228	10.616	10.167	10.587	9.945	10.979	9.878	10.372	10.395	10.065	10.063	10.984
	756.458	756.880	757.383	757,525	757.675	757.901	758.204	978.854	759.146	759.259	759,402	759.594	759.847	759.941	760.111	760.243	760.557	761.053	760.995	762.640	763.006	763.248	763,458	763.650	763.705	763.772	763.924	764.096	764.117	764.195	764.268	764.334	764.441	764.447	764 440	764.479	764.482
	144.243	745.134	745.021	746.037	745.982	745.752	746.286	748.246	748.899	748.395	749,421	747.060	749.315	748,567	749.966	750.891	752.081	751.858	751.801	752.261	752.830	752.019	752.949	752.900	752.929	752.544	753.308	753.929	753,530	754.250		754.456	754.069	754.052	754.375	754.417	753.498
4000	000.086	980.	4980,000	4 980,000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	•		3764.000	3764.000	3764.000	1670.000	1670.000	1670.000	1670.000	1670.000	1670.000
000	000.00.44	4850,000	1700.000	3950.000	2225.000	4775,000	7000.000					_		3521.900	1817.200	2028.400	2470.000	1076.600	2390.900	2077.600	2319.900	1916.500			1295.500			391.600	1191.200	008.785	557.800				919.300	875.200	000
000	1025	CEZIT	CF221	CF231	CF241	CF251	CF261	CF271	75021	JS031	75041						28101					- 1				19191	75201	1227	17755	16231	15780	10707	35261	35271	35281	55291	JS301

A2 1983 742.0 Parana pit. without excavation 1983year flood model

1			•								
ec name	distance	dischar.	elevati.	W.level	Max W.D.	Ave.velo	combined	Energy	w.head	Frudes	decision
	(E)	(s/ e)	(TP m)	(TP m)	Ê.	(s/E)	Coeffici	modified	(TP m)		
CN071	9230.000	8358,000	615.000	742.000	127.000	174	.030	1,132	742,002	.007	2
CN021	9230,000	8358,000	625,000	742.001	117.001	.136	.030	161.1	742.002	900	: ~
CNOST	12300,000	8358,000	635.000	742.001	107,001	.192	030	1.163	742.003	800	1/4
CN041	10000.000	8358,000	000.699	742.004	73.004	.181	.030	1.095	742.006	800	. 72
CN051	11540,000		675.000	742.003	67.003	.362	030	1.152	742.011	610.	~
CN061	2160,000		700.550	742.015	41.465	.435	.030	1.114	742.026	.028	~
CN071	3840,000		705,190	741.951	36.761	1.315	.030	1.130	742.050	760.	8
CN081	400.000		713.710	742.080	28.370	.570	,030	1.063	742.098	.042	~
C8087	1400,000		714.940	742.085	27.145	. 500	.030	1.153	742.099	.042	~
CN101	1420.000		717.280	741.931	24.651	2.015	.030	1.081	742.155	168	· (%)
CKILL	100.000		722.160	742.063	19.903	1.974	.030	1.023	742.267	161	~
CN121	.		718.180	741.696	23.516	3.229	.030	1.116	742.289	335	8
ZN131			732.270	743.677	11.407	2.479	050	1.068	744.012	278	7
CNI41	w,	5122.000	733.050	744.258	11.208	4.393	.050	1.068	745,309	546	~
CN151			730.370	746.108	15.738	1.655	.050	1.160	746.270	233	2
CX152			738.500	746.099	7.599	2.110	.050	1.013	746.329	.288	8
CN153			735.150	746.255	11,104	1.571	.050	1.048	746.387	.201	8
CN154		•	734.239	746.231	11.992	1.851	0\$0.	1.059	746.417	215	7
CN161			731.410	746.253	14.843	1.804	.050	1.121	746.439	.220	Ñ
C8171	-1		731.720	746.293	14.573	1.796	.032	1.276	746.503	219	~
Q 181		•	736.150	746,495	10.345	1.675	.033	1.458	746.703	.278	N
CN191		•	736.890	746.578	9.688	1.594	.033	1.484	746.770	.267	8
CN201			734.620	746.711	12.091	1.299	.038	2.222	746.902	.245	14
CNZII			734.990	746.943	11.953	1.064	.039	2.594	747.093	. 245	7
CN221	1600,000	5122,000	732.710	747.148	14.438	.518	650.	7.865	747.255	.240	2
CNZSI	•	5122.000	735.690	747.294	11.604	1.439	.033	1.485	747.451	.212	7
15282	٠		738.000	747.324	9.324	2.521	.036	2.347	748.085	.618	2
CN251			733.500	748.069	14.569	1.023	.039	2.734	748.215	.225	6
CNZ61	71		729.600	747.924	18,324	1.125	.052	5.202	748.260	.357	7
CN271			734.860	748.446	13.586	.834	.042	3,553	748.572	712	7
CN281			734,630	748.466	13.836	834	.043	3.552	748.592	2.7	7
CN291			736,890	748.570	11.680	1.125	.040	2.461	748.729	.233	7
CN301	Н		735,190	748.772	13.582	.749	.050	4.557	748.902	.218	7
CTOIL	999	5122.000	737.480	748.937	11.457	. 965	.038	1.941	749.029	.155	- 2
JT021	232,300	5122.000	738.167	749.042	10.875	.922	.031	1.157	749.092	113	. 2

749.242 749.256 749.303 749.428 749.434 749.467 749.482 749.860 749.829 749.829 750.085 750.112 750.128 750.225 750.283 750.283 750.491 750.491 750.559 750.713 750.948 350.016 751.867 752.237 752.490 752.934 753.228 753.491 754.497 754.894 755.070 755.276 54.117 6.224 2.781 1.566 1.579 2.067 3.652 1.400 .596 2.031 2.031 2.474 2.474 2.474 2.269 3.994 3.994 3.994 3.994 3.994 3.994 3.994 3.994 . 915 2.28 2.083 2.083 2.171 2.171 2.281 2.281 2.281 2.282 2.269 2.269 2.269 2.269 2.269 2.269 2.269 2.269 2.269 2.269 2.269 2.269 3 .169 . 695 3.935 100.00 15.430 13.746 11.548 10.484 11.267 11.251 10.269 11.414 10.263 10.263 10.263 11.614 10.263 11.979 10.152 2.392 1.472 2.165 1.327 6.426 749.111 749.138 749.138 749.218 749.240 749.399 749.428 749.539 749.610 749.681 749.988. 749.954 749.986 750.137 750.192 750.244 750.289 750.480 750.439 750.655 750.844 752.146 752.462 752.71 752.954 753.370 753.993 754.349 754.786 755.021 151.798 49.356 749.908 737.070 736.588 734.672 735.330 735.664 729.825 735.980 736.606 738.550 734.254 731.840 732.826 739.532 739.756 734.524 736.240 738.589 739.099 739.099 740.311 740.313 736.624 740.674 741.444 33.126 742.213 742.681 741.128 742.400 5122.000 5122.000 5122.000 5122.000 5122.000 5122.000 5122.000 4980.000 4980.000 4980.000 4980.000 4980.000 4980.000 4980.000 4980.000 4980.000 4980.000 4980.000 \$122.000 \$122.000 \$122.000 \$122.000 4980.000 4980.000 4980.000 4980.000 980.000 980.000 980.000 296.000 990.1100 291.2.700 990.1100 991.500 998.200 9950.000 9950.000 9950.000 9950.000 9950.000 9950.000 9950.000 9950.000 9950.000 9950.000 9950.000 9950.000 95.800 0.0311 0.0321 0.0321 0.0331 0.

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			.208	244	.158	.130	.223	.125	.209	.210	153	159	.160	.202	104	101	122	.183	.241	.158	.528	.228	.168	.165	.133	.110	.131	.236	.195	.121	.128	166	131	171.	.053	.053	.097	.047	,074					
			756.564	7.0	7.46	757.563	7.79	6.6	.35	80.	٥.	9.34	8	9.72	9.88	9.98	760.161	5	760,705	27.	. 61	.78	80	34		763.691	•		.04	14	7		33	42	•	₹.	764.467	764.487	764.500	·				
			Ξ.	4.150	5.049	2.932	. **	2.360	ত	2.261	1.847	1.805	1.603	2.198	1.304	1.504	1.144	1.622	1,201	.12	•	2.050	1.775	1.684	1.458	1.177	. •	•	2.103	•	1.243	62	1.440	1.695	1.269	1.210	1.578	1.068	1.768	-				
	-		.054	.047	650.	.041	.045	.042	.035	.037	.036	980.	.034	.039	.032	.035	.031	.035	.031	.031	.043	.039	.037	.037	.034	.032	.034	.043	.041	.031	.032	.036	.035	.036	.032	.032	.035	080.	.038					
			.616	768	. 553	.476	.801	699.	1.306	. 927	. 907	. 936	.972	1.091	763	721	905	1.045	1.532	.12	vo	ന	.95	1.033	.870	.827	. 883	1.097	1.060	906.	916	966	.870	1.001	.378	.382	. 579	.367	.439					
			2	11,752	ď	ä	ä	12,152	$\ddot{}$	ö	10.249	•	9.985	12,535	ö	11,376		9.354	8.480		9.194	10.379	10.176	11.229	10.510	10.750	10.776	•	10.616	10.167		9,945	10.979	•	0.37	4	0	o.	10.984					
			756.465	9		S.	57.6	57.90	58.20	58.98	759.148	59.26	759.406	.59	59	\$6.	Ħ		760.561	761,055				763,248	, S	•	2			္		٠, ١	•	ŗ.			4.4	4	764.482	٠	•			
		٠	4.24	5	47	746.037	•	745,752	•		•	٠, د		80.	•	Ψ.		•	•	751.858	•	•	•	752.019	•	752.900	25.	25	S i	23	53.53	235	53.28	•	754,069	, 1	54.37	4.	753.498					
			4980,000	4980.000	4980.000	4980,000	3764.000	3764,000	3764,000	3764.000	8	3764.000	3764.000	3764.000	•		3764.000		3764.000	3764.000	3764.000		3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000	3764.000			000.079		0 (1670.000					
				4850.000	1700,000																											487.800	337.800	436.900	316,200	006.216	000 216	875.200	000.					
· .			CF201	CF211	CF221	CF231	CF241	CF251	CF261	CF271	JS021						JSOSI	18081	J2101	78111	25121	55131	JS141	28151	12161	55171	1817C	16100	10250	35211	12221	16265	10000	1020	1000	10000	19760	16230	JS301		:			

A3 1983 739.0 parana pjt. without excavation 1983year flood model

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	Frudes		.007	900.	600.	600	.021	.033	.118	.050	.055	.220	.215	. 644	.328	. 637	.241	298	206	.220	.223	. 222	. 284	.274	.249	.248	.247	.215	. 629	.226	360	219	219	.235	219	156	113	
	W.head	(TP m)	739,002	739.002	739.003	739.006	739.012	739.029	739.065	739.136	739,138	739.238	739.449	739.521	743.166	744.872	746.153	746.217	746.278	746.309	746.331	746.398	746,607	746.676	746.816	747.013	747.181	747.384	748,037	748.171	748.218	748.534	748.554	748,694	748.871	748.999	749.061	
•	Energy	modified	1.135	1.190	1.162	3.095	1,153	1.118	1.124	1.048	1.155	1.073	1,023	1.229	1,075	1.078	1.166	1.014	1.050	1,061	1,119	1.269	1.443	1.477	2,209	2.568	7.851	1.480	2.322	2.722	5.178	3.540	3,539	2.456	4.551	1.939	1.156	
	compined	Coeffici	.030	.030	030	.030	020.	.030	030	030	.030	.030	.030	030	.050	.050	050	050.	.050	.050	.050	.032	.032	.033	.038	620.	650.	.033	.036	.039	.052	.042	.042	.040	.050	.038	.031	
	Ave.velo	(s/E)	.180	142	202	.192	390	489	1.527	.665	. 607	2.472	2.415	4.899	2.775	4.865	1.690	2.158	1.599	1.878	1.830	1.818	1.707	1.625	1.317	1.082	. 529	1.453	2.564	1.032	1,135	840	.840	1.132	.753	696	.926	
3	Max 8.0.	Ê	124.000	114.001	104.001	70,004	64.003	38.466	33.741	25.402	24.177	21.624	16,984	19.836	10.474	10.521	15.613	7.477	10.991	11.879	14.729	14.464	10.242	9.587	12,000	11.870	14.359	11.534	9.258	14.523	18.277	13,547	13.797	11,643	13.549	11.426	10.844	
3	W.level	(# 44)	739,000	739.001	739.001	739,004	739,003	739.016	738.931	739.112	739.117	738.904	739.144	738.016	742.744	743.571	745.983	745.977	746.141	746.118	746.139	746.184	746.392	746.477	746.620	746,860	747.069	747:224	747.258	748.023	747.877	748,407	748.427	748.533	748,739	748.906	749.011	
* * * * * * * * * * * * * * * * * * * *	elevatı.	(IF m)	615.000	625.000	635,000	669,000	675,000	700.550	705.190	713,710	714.940	717.280	722.160	718.180	732.270	733.050	730,370	738.500	735.150	734,239	731.410	731.720	736.150	736.890	734.620	734.990	732.710	735.690	738,000	733,500	729.600	734,860	734.630	736.890	735.190	737,480	738.167	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dischar.	(S/ E)	8358,000	8358.000	8358,000	8358,000	8358,000	8358.000	8358.000	8358,000	8358.000	8358,000	8358,000	8358.000	8358.000	5122.000	5122.000	\$122,000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	5122.000	
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4	sec name		CN011	CN021	CN031			CN061	CNO71	CN081	160NO	CNTOIL	נונעט	CN121	ZNIBL	CNIAL	CNISI	CN152	CN153	CN154	CN161	17170	CN181	CN191	CN201	CN211	CN221	CN231	ZN241	CN251	CN261	CN271	CN281	CN291	CN301	STOIL	71021	

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756.558	757,006	757.463	757,559	757.790	757.955	758.351	759.078	759.224	759,340	759.480	759.728	759.886	759.981	760.159	760.333	760.701	761.125	761.614	762.786	763.089	763.340	763,515	763.691	763.762	763.923	764.045	764.146	764.170	764.278	764.324	764.421	764.450	764.456	764.467	764.487	764.500
5.113	4.147	5.050	2.931	3.490	2,360	1.684	2.261	1.846	1.804	1.603	2.198	1.304	1.504	1.145	1.622	1.201	1.125	3.126	2.050	1.775	1.684	1.458	1.177	1.412	2.475	2.103	1.192	1.243	1.628	1.440	1.695	1.269	1.210	1.578	1.068	1.768
.054	960.	.059	.041	.045	.042	.035	.037	.036	.036	.034	. 039	.032	.035	.031	.035	.031	.031	.043	.039	.037	.037	.034	.032	.034	. 043	.041	.031	.032	.036	.035	.036	.032	.032	.035	.030	.038
.617	.769	.553	.476	.802	.670	1.306	.928	.907	936	. 973	1.091	.766	721	906	1.045	1.533	1.121	1.969	1.185	.955	1.033	.870	.827	.883	1.097	1.060	906	.916	966.	870	1.001	378	.382	.579	.367	439
12.216	11,747	12.363	11.488	11.693	12,149	11.918	10.733	10.247	10.864	9.981	12.534	10.532	11.374	10.145	9.352	8.476	9.195	9.194	10.379	10.176	11.229	10.510	10.750	10.776	11,228	10.616	10.167	10.587	9.945	10.979	9.878	10.372	10.395	10.065	10.063	10.984
756.459	756.881	757.384	757.525	757.675	757.901	758.204	758.979	759.146	759.259	759.402	759.594	759.847	759.941	760.111	760.243	760.557	761.053	760.995	762,640	763.006	763.248	763.458	763.650	763.705	763.772	763.924	764,096	764.117	764.195	764.268	764.334	764.441	764.447	764.440	764.479	764.482
744.243	745.134	745.021	746.037	745.982	745.752	746.286	748.246	748.899	748,395	749.421	747.060	749.515	748.567	749.966	750.891	752.081	751.858	751.801	752,261	752.830	752.019	752.949	752.900	752.929	752.544	753.308	753.929	753.530	754.250	753.289	754.456	754.069	754.052	754.375	754.417	753.498
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4400,000				~														. 1									391,600	1191.200	487,800				512,400	919.300	875.200	000
CF201	CF211	CF221	CF231	CF241	CF251	CF261	CF271	35021	35031			28061	35071	35081			35111			JS141	JS151	JS161	35171	32181	18191	35201	35211	35221	35231	38241	35251	35261	35271	35281	38291	JS301

Frudes 742.011 742.028 742.061 742.063 742.102 742.180 742.196 745.590 745.801 345.976 747.172 747,450 147.137 147.575 742.001 742.002 742.002 742.001 742.001 745.549 745.640 745.859 147.020 143.513 144.589 745.439 745.495 145.574 146.131 746.277 146,454 (TP m) W.head 1.071 Energy modified 1.207 .019 1,063 1.067 1:412 2.088 2.326 7.407 ..410 1.163 1.095 1.152 1.114 1.130 1.062 1.081 Max W.D. Ave.velo combined Coeffici 948 1.054 804 805 1.058 1.058 870 870 1.675 2.661 2.661 3.946 1.881 1.881 1.571 1.571 1.531 1.508 1.508 1.149 (m/s) 28.339 27.112 24.667 19.879 23.613 10.986 10.685 127.000 117.001 107.000 73.000 66.996 41.453 10.297 11.200 14.048 13.777 9.496 8.817 11.215 11.027 13.461 10.647 8.402 6.812 13.526 17.310 12.470 12.718 10.555 (E) 745,497 747.348 747.445 743.256 745.439 745.835 746.910 147.026 742.049 742.000 746.337 746.402 147.778 742.003 741.959 741.947 742.039 741.793 745.312 745.447 745.707 746.171 141.996 W.level (TP m) 734.620 734.990 732.710 735.690 734.630 732.270 733.050 730.370 734.239 736.890 731.720 729.600 elevati. 615.000 625.000 713.710 38.500 35.150 736.890 33,500 34.860 122.160 718.180 35.190 705.190 117.280 669.000 675,000 700.550 635,000 (TP m) dischar. 3917.000 3917.000 3917.000 6952.000 6952.000 3917.000 3917.000 3917.000 3917.000 3917.000 3917.000 3917.000 6952.000 6952.000 6952.000 6952,000 3917.000 3917.000 6952,000 3917,000 3917,000 3917.000 3917.000 3917.000 1917.000 6952.000 5952,000 6952.000 (s/ m) 3040.000 640.000 500.000 1400.000 1400.000 1600.000 2170.000 230.000 1200.000 1400.000 400.000 1400.000 1420.000 distance 9230.000 12300,000 11540,000 70,000 60.000 50.000 300.000 690.000 300.000 300.000 260.000 1200.000 3840,000 Ê sec name CN011 GN031 CN121 CN121 ZN131 CN141 CN152 CN152 CN153 CN171 CN181 161NO CN211 CN211 CN221 CN231 CN231 CN231 CN251 CN051 CN071 CN081 CN091 CNIOI CN261 CN271 CN281 CN291 CN301 CT011

decision

parana pjt. without excavation

A4 1992 742.0

1992year flood model

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755.290 755.741 756.293 756.293 756.293 756.293 757.055 757.055 757.055 758.868 759.023 759.023 759.079 759.250 760.074 762.992 762.992 762.992 762.992 763.394 763.394 763.394 763.394 763.397 763.397 2.286 2.339 2.339 2.339 2.339 3.3019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 3.0019 . 642 . 529 . 529 . 624 . 624 . 965 . 965 . 969 . 969 . 972 . 980 10.953 755.196 756.221 756.221 756.221 756.221 756.221 757.938 757.631 758.930 758.823 758.823 758.823 758.930 760.009 760.009 761.987 762.227 762.227 762.238 763.338 763.382 763.285 763.285 763.382 744.243 745.134 745.021 746.037 745.021 746.037 748.246 748.246 749.395 749.966 750.891 752.081 752.081 752.081 752.909 752.909 752.909 752.909 752.909 752.909 752.909 752.909 3809.000 3809.000 3809.000 2879.000 4600.000
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AS 1992 739.0 parana pjt. without excavation 1992year flood model

sec name	distance (m)	dischar.	elevati. (TP m)	K.level	καχ κ.Ο. (m)	Ave.velo	combined	Energy	W.head	Frudes	decision	
	(to)		٠.			•	٠					
CNOIL	9230.000	•	615,000	739.000	124.000	150	.030	1.135	739.001	900	7	
CN021	9230,000		625.000	139.001	114.001	.118	020	1,190	739.002	.005	7	
CNOST	12300,000	6952,000	635,000	739.000	104.000	.168	010	1.162	739.002	. 007	7	
CNO41	10000.0001		669,000	739.000	70.000	.160	.030	1.095	739,001	800.	2	
CN051	11540,000	6952,000	675,000	738.997	63.997	.324	030	1.153	739,003	.018	2	
CNOCT	2160.000		700.550	739.006	38,456	.407	030	1.118	739.016	.028	8	
CN071	3840.000		705.190	738,948	33,758	1.269	030	1.124	739.040	860.	2	
CN081	400,000	•	713,710	739.073	25.363	. 554	.030	1.048	739.090	.042	2	
CN091	1400,000	6952,000	714 940	739.077	24.137	905.	010	7.155	729.092	970.	2	
COLIND	1420,000		717.280	738.931	21.651	2.052	0.30	1.073	739.162	.183	2	
11120	100.000	6952.000	722.160	739.095	16.935	2.017	030	1.023	739.307	.180	~	
CN121	3040,000		718.180	738.435	20.255	3.852	030	1.209	739.350	.489	2	
ZN131		6952.000	732.270	741.819	9.549	2.613	.050	1.084	742.196	.327	2	
CN141		3917,000	733.050	742.669	9.619	4.704	080.	1.095	743.905	999.	8	
CN151		3917,000	730.370	745.159	14.789	1.503	.050	1.219	745.300	.235	~	
CN152	70,000	3917.000	738.500	745,167	6.667	1.940	050	1.020	745.363	.292	7	
CN153	000.09	3917,000	735,150	745.314	10.164	1.403	080	1.066	745.421	.195	7	
CN154	20.000	3917,000	734.239	745.309	11.070	1.599	.050	1.069	745.449	.198	7	
CN161	260.000	3917.000	731.410	745.332	13,922	1.557	.050	101.1	745.468	.190	7	
CN171	1200,000	3917.000	731.720	745.373	13,653	1.530	.031	1.220	745.519	.188	7	
CNIBI	300,000		736,150	745.526	9.376	1.553	.032	1.307	745.687	.261	2	
CN191	690.000	3917.	736.890	745.589	8.699	1.491	.032	1.400	745.748	.266	7	
CN201	1400.000	3917.	734.620	745.725	11.105	1.172	.036	2.070	745.870	.228	2	
CN211	1400.000	3917.	734.590	745.916	10.926	7.000	.037	2.300	746.033	.218	7	
CN221	1600,000	3917	732.710	746.076	13.366	.548	.052	7,322	746.188	.278	2	
CN231	1400.000		735.690	746.253	10.563	1.291	032	1.403	746.372	198	2	
ZN241	300.000		738.000	746.324	8.324	2.554	033	016-1	746.960	. 634	7	
CN251	300,000	3917.000	733, 500	746.968	13.468	.959	.037	2.409	747.081	.210	8	
CN261	2170,000		729.600	746.851	17.251	1.068	.049	4.600	747.118	.338	~	
CN271	230,000		734.860	747.279	12.419	.813	620	3.062	747.382	.220	7	
CN281	1200,000		734.630	747.297	12.667	.815	620.	3.064	747.401	.221	7	
CN291	1400.000		736.890	747,395	10.505	1.068	.038	2.272	747.527	.227	2	
CN301	1368,600		735.190	747.578	12.388	. 727	.046	4.240	747.692	.225	8	
Croll	999,100	3917,000	737.480	747.735	10.255	.875	980.	1.863	747.808	.150	6	
17021	232.300	3917,000	738,167	747.826	9.659	.833	.031	1.150	747.867	011.	8	
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755.286	755.738	756.192	756.291	756.521	756,681	757.054	757,757	757.903	758.023	758,170	758.414	758.567	758.666	758.868	759.079	759,550	760.074	760.572	761.756	762.057	762.302	762.473	762.649	762.718	762.876	762.992	763.092	763.118	763.227	763.274	763.360	763.387	763.394	763.409	763.432	763.448	
4.484	3.318	5.069	2.338	3.018	2.271	1.525	1,831	1.722	1.721	1.504	1.996	1.321	1.513	1.183	1.607	1.265	1.150	2.949	2.058	1.751	1.710	1.486	1.199	1.451	2,406	2,131	1.218	1.278	1.641	1.467	1.688	1.287	1.237	1.606	1.089	1.803	
049	042	055	037	.041	0.10	033	.035	.034	.035	.033	.037	.032	034	.031	.034	.030	.031	070	037	960	.037	034	.032	.034	.042	.040	.031	.032	.035	.035	.035	.032	.032	.034	.030	.038	
.642	820	. 529	.519	.811	. 624	1.228	.965	.866	894	.949	1.030	.715	.663	.865	1.041	1.529	1.047	1.930	1.104	.885	. 930	794	.746	.803	1.023	896.	817	.836	. 922	.793	931	365	370	.573	354	.426	
10.949	10.490	11.099	10.222	10,438	10.884	10.650	9.424	8.938	9.558	8.680	11.246	9.218	10.065	8.857	8.099	7,318	8.151	8.211	9.367	9.157	10.208	9.477	9.715	9.741	10.203	9.582	9.121	9.542	8.906	9.938	8.829	9.310	9.333	9.007	9.008	9.934	
755.192	755.624	756,120	756.259	756,419	756.636	756.936	757.670	757.837	757,953	101.854	758,306	758.533	758.632	758.823	758.990	759.399	760.009	760.012	761.628	761.987	762.227	762.426	762.615	762.670	762.747	762.890	763.050	763.072	763,156	763.227	763.285	763.379	763.385	763.382	763.425	763,432	
744.243	745.134	745.021	746.037	745.982	745.752	746.286	748.246	748.899	748.395	749.421	747.060	749.515	748.567	749.966	750.891	752.081	751.858	151.801	752.261	752.830	752.019	752.949	752,900	752,929	752,544	753,308	753.929	753.530	754.250	753.289	754.456	754.069	754.052	754.375	754.417	753.498	
3809.000	3809.000	3809.000	3809,000	2879,000	2879.000	2879,000	2879.000	2879.000	2879.000	2879,000	2879.000	2879.000	2879.000	2879.000	2879,000	2879.000	2879.000	2879,000	2879.000	2879,000	2879.000	2879.000	2879,000	2879.000	2879.000	2879.000	2879.000	2879.000	2879.000	2879.000	1350.000	1350.000	1350.000	1350.000	1350,000	1350.000	
4400,000	4850.000	1700.000	3950.000	2225.000	4775.000	7000.0007	1805.800	1552,500	1762,600	2644,100	2191,600	2388.100	3521.900	1817.200	2028,400	2470,000	1076.600	2390,900	2077,600	2319.900	1916.500	2866,900	1134.600	1295.500	737.200	998.100	391.600	11,91,200	487,800	557.800	436,900	516.200	512.400	919.300	875.200	000	
CF201							CF271																	18181	18181	JS201	JS211	J5221	JS231	35241	35251	JS261	JS271	35281	JS291	JS301	

2.2 Case With Excavation - 1

BI 1983 744.0 parana pjr. with excavation 1983year flood model

decision 2000 Frudes 744.039
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	447	P. C. C.	. 22	.125	205	.210	.153	159	160	200	104	101	122	.183	.242	.158	.528	.228	168	.165	133	110	131	236	195	121	128	.166	131	.171	.053	.053	760.	.047	,074				
		757.558	-	~	φ.	•	6	9.34	759.480	9.72	S)	98	0	5	.70	761.125	761.614	.78	80.		5	63		763.923	ò	764 146	764.170	764.278	764.324		764.450	.45	764.467	764.487	Ŋ				
944	Č	2.930	5	.36	. 68	2.261	1.846	1.804	1,603	0		S	•	1.622	1.201	.13	3.126	.05	. 77	89	S	1.177	4	A.	ដ		24	1.628	1.440	1.695	1.269	1.210	•	1.068	9				
	9.0	.041	.045	.042	.035	.037	.036	.036	.034	.039	.032	.035	.031	.035	.031	.031	.043	.039	.037	.037	034	.032	.034	.043	.041	.031	.032	.036	.035	.036	.032	.032	.035	.030	.038				
	5.5.3	476	802	670	1.306	. 928	. 907	.936	.973	1.091	•	.721	906	ò	•	. 12	96	1.185	.955	1.033	.870	.827	.883	0	o.	906	4	g,	870	0	378	.382	.579	.367	.439	÷			
,	12,360	11.487	11.693	51	枟	ં	7.	ö	9.981	તં	10.532	11.374	10,145	9.352	8.476	9	9-194	33	10.176	11.229	10.510	10.750	10.776	11.228	10.616	10.167	10.587	9.945	10.979	9.878	ö	ċ	10.065	10.063	10.984				
	57.38	757.524	57.67	vn.	58.20	A	759.146	759.259	759.402	759,594	759.847	759.941	760.111	760.243	760.557	761.053	760.995	762.640	\simeq		Ñ	ĸ	3.70	۲۲.	ď	် ်	64.12	64.1	64.26			64.44	64.44	2 3	764.482				
	745.021		ŝ	5.75	6.28	8.24	748.899	8.39	749.421	8	749.315	ထ	o,		22	751.858	ri ·	ญ่	N	N.	'n	52.90	752.929	2.54	53.30		53.53	54.25	80	54.45	7	9.05	4.37	÷.	753.498				
	4.980,000		3764.000	3764,000	- 64 - 2	•	3764.000	•	3764.000	3764.000	٠	•	3764.000		3764.000	3764.000		•	3764.000			•		3764.000		3764.000			. 6		00.078	9/6	•	1670.000	76/0.000				
	1700.000	3950,000	2225.000	4775.000	7000.000	1805.800	1552,500	1762.600	2644.100	2191,600	2588.100	3521.900	1817.200	2028.400	2470.000	1076.600	2390.900	2017.600	2319,900	1916.500	2866,900	1134.600	1295,500	737.200	998.100	397.600	002.1611	487.800	257.800	000.000	279.200	010.400	000.818	878.200	000				
	CF221	CF231	CF241	CF251	CFZ61	CF271	12021	15031	JS041	38051	22061	1202	JS081	16050	10135	11100	77.05	77700	19141	US151	19755	35171	1875	16161	10705	14200	12750	10700	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10707	1070	1,700	10707	16207 16461	10000				

B2 1983 742.0 parana pjt. with excavation 1983year flood model

sec name	disi	dischar.	elevati.	W.level	Max W.D.	Ave.velo	compined	Energy	W.head	Frudes	decision
	Ê)	(s/ w)	(TP a)	(TP m)	(E)	(m/s)	Coeffici	modified	(TP m)		
CNOT	11 9230.000	8358,000	615.000	742.000	127.000	174	030	1.132	742.002	.007	2
CN021		8358.000	625,000	742.001	117,001	.136	.030	191.1	742.002	900	. 6
CNOST	•	8358.000	635.000	742.001	107.001	192	.030	1.163	742.003	800	I I N
CN041		8358,000	669,000	742.004	73.004	181	.030	1.095	742.006	800.	2
CNOST	-4	8358,000	675,000	742.003	67.003	362	000.	1.152	742.011	610.	N
CN061		8358,000	700.550	742.015	41.465	435	.030	1.114	742.026	.028	8
CNO71	m	8358,000	705.190	741.951	36.761	1,315	.030	1.130	742.050	.097	. 2
CNOBI		8358,000	713,710	742.080	28.370	.570	080	1.063	742.098	.042	7
CNOOL		8358,000	714.940	742.085	27.145	. 500	000.	1.153	752.099	.542	N
CNIOI	-	8358,000	717.280	741.931	24.651	2.015	.030	1.081	742.155	.168	~
3		8358,000	722.160	742,063	19,903	1.974	.030	1.023	742.267	.161	2
8	m	8358.000	718.180	741.696	23.516	3.229	020.	1.116	742,289	.335	7
xc131		8358,000	132.270	743.318	11.048	2.561	.040	1.065	743.674	.290	8
SC141	S	5122.000	733.050	743.713	10.663	4.592	.040	1.059	744.852	.579	~
SC151		5122	730.370	745.405	15.035	1.326	0.50	1.066	745.501	.160	~
SCI	52 70,000	5122	737.000	745.374	8.374	1.627	.040	1.055	745.516	139	N
8	•	5122	735.150	745.435	10.285	1.359	.040	1.040	745.533	161	~
33		5122	734.239	745,348	11.109	1.943	.040	1.049	745.550	230	~
รัช	61 260.000	5122,000	731.410	745.335	13.925	2.035	.040	101.1	745.567	249	7
CN171		5122,000	731.720	745.383	13.663	1.999	.031	1.221	745, 632	2.5	
ĩ,		5122.000	736.150	745.646	9.496	1.906	.032	1.307	745.888	.312	7
ğ		5122.000	736.890	745.766	8.876	1.657	.032	1.375	745.959	172.	7
CN201		5122.000	734.620	745.866	11.246	1.494	.036	2.094	746.105	290	~
CN211	-	5122.000	734.990	746.177	11.187	1.241	.037	2.368	746.363	.274	N
CN221		5122.000	732.710	746,432	13.722	. 637	.055	7.598	746.589	314	7
CN231	- 1	5122.000	735.690	746.669	10.979	1.579	.033	1.438	746.852	.238	۲,
ZN241		5122,000	738,000	746.746	8.746	2,943	.035	2.111	747.679	.729	7
CN251		5122.000	733,500	747.687	14.187	1.095	.039	2.628	747.847	.241	~
CN261	~	5122.000	729.600	747.522	17.922	1.216	.051	4.994	747.899	.386	N
CN271		5122.000	734.860	748.114	13.254	688.	.041	3.436	748.253	.234	7
CN281	• •	5122.000	734.630	748.137	13,507	888	.042	3.437	748.275	.235	N
CN291	• •	5122,000	736.890	748.255	11,365	1.189	.040	2.414	748.430	249	7
CN301	4	5122,000	735.190	748.483	13.293	. 790	040	4.498	748.626	.233	~
STOIL			737.480	748.667	11.188	. 985	.037	1.912	748.762	159	и
STO21	232.300	5122.000	737.800	748.772	10.972	897	.032	1.265	748.824	113	7

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756.547 757.455 757.455 757.455 757.552.951 759.075 759.075 759.075 759.075 759.075 759.075 759.075 759.075 760.331 760.157 761.125 763.089 763.089 763.089 763.089 764.146 764.170 764.278 764.324 5.109 5.050 5.050 5.928 3.488 3.488 3.488 5.928 5.050 5. 759.142 759.255 759.399 759.399 760.109 760.241 760.955 762.995 763.248 763.458 763.458 763.458 763.458 756.447 756.872 757.376 757.518 757.669 757.897 758.201 764.096 764.117 764.195 764.268 751.858 751.801 752.261 752.830 752.019 752,949 752,900 752,929 752,544 753,308 748.899.749.421.749.515.749.560.749.966.750.891.750.891.752.081 753.929 746.037 745.982 745.752 746.286 4980.000
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B3 1983 739.0 parana pjr. with excavation 1983year flood model

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ň		5	U	elevati.	w.Level	Max w D	Ave.velo	compined	Energy	W.head	Prudes	decision
		<u>e</u>	(s/ w)	(TP m)	(TP m)	E)	(s/w)	Coeffici	modified	(TP a)		
			000	444			•	. 1				
	4 4 0 5 7		•	000.614	139,000	124.000	281.	.030	1,135	739.002	.007	~
	CN021	9230,000	8358	625,000	139,001	114.001	142	030	1.190	739.002	900.	2
	CNOST	12300.000		635.000	739.001	104.001	.202	.030	1.162	739,003	500	CNI
	CN041	10000,000		669.000	739.004	70.004	.192	030	1.095	739.006	600.	~
	CN051	11540,000	8358,000	675.000	739.003	64.003	.390	.030	1.153	739.012	.021	~
	CNOCL	27.60.000	8358	700.550	739.016	38.466	.489	.030	1.118	739.029	.033	· 14
	CN071	3840,000	8358	705.190	738,931	33.741	1.527	030	1.124	739.065	118	7
	CN081	400.000		713,710	739,112	25.402	999.	030	1.048	739.136	020	8
	160NO	1400.000	8358	714.940	739.117	24.177	. 607	.030	1.155	739,138	. 055	2
	CN101	1420.000	8328	717.280	738.904	21.624	2.472	.030	1.073	739.238	220	7
	CNILL	100,000	8358	722.160	739,144	16.984	2.415	.030	1.023	739,449	.215	7
	CN121	3040,000		718.180	738,016	19.836	4.899	.030	1.229	739.521	644	~
	XC131	640.000		732.270	742.286	10.016	2.914	.040	1.073	742,751	.351	~
	86141	200,000	5122	733.050	742.892	9.842	5.220	040	1.069	744.379	702	8
	SC151	70,000	5122	730.370	745.232	14,862	1.358	.040	1.067	745.333	165	N
	SC152	70,000	5122	737.000	745.199	8.199	1.667	.040	1,057	745.349	207	~
	SC153	60,000	5122	735.150	745.264	10,114	1,390	.040	1.042	745.367	.166	
	SC154	50.000	5122	734.239	745.174	10,935	1.988	.040	1.049	745.385	.238	r\
	1918D	260.000	5122	731.410	745,160	13.750	2.083	.040	1.098	745.403	254	7
	Q171	1200,000	5122	731.720	745.215	13.495	2.040	.031	1.211	745.472	.251	2
	SC181	300,000	5122.	736.150	745.490	9,340	1.967	.031	1.282	745.743	.322	2
	SC191	690.000	5122	736.890	745.617	8.727	1.706	.032	1.360	745.819	.281	8
	CN201	1400.000	5122	734,620	745.725	11,105	1.532	.036	2.070	745.973	.299	7
	CNZII	1400.000	5122	734.990	746.052	11.062	1.273	.037	2.334	746.244	279	8
	CN221	1600.000	5122	732.710	746,315	13,605	199	.054	7.521	746,483	.329	7
	CNZSI	1400,000	5122	735.690	746.573	10.883	1.603	.033	1.430.	746.760	243	۰:
	ZNZ41	300.000	5122	738.000	746.658	8.658	3.018	.034	2.071	747.621	748	7
	CN251		ď	733.500	747.633	14.133	1.106	.038	2.612	747.796	.243	2
	CN261		ċ	729,600	747.464	17.864	7.230	.051	4.962	747.847	391	7
	CNZ	230.000	\sim	734.860	748.067	13.207	1897	.041	3.418	748,207	237	2
	CN281		N	734.630	748.090	13.460	.897	.041	3.419	748,230	.237	74
	CN291		~	736.890	748.210	11,320	1.199	.040	2.407	748.387	.252	7
	CN301	-1	\sim	735.190	748.443	13,253	.796	040	4.489	748.588	.236	~
	STOIL	0 0 0	5122,000	737.480	748.629	11.149	066	.037	1.910	748.725	.160	8
	ST021	232,300	5122.000	737.800	748.734	10.934	106.	.032	1.265	748.786	114	N

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2.3 Case With Excavation - 2

CI 1983 744.0 parana pjt. with large excavation

1983year flood model

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756.520	756.975	757.437	757,535	757.769	757.935	758,334	759.065	759.211	759.328	759.471	759.717	759.877	076.657	760,150	760.324	760.695	761.134	761.619	762.788	763.091	763.341	763.517	763.693	763.763	763.926	764.046	764.147	764.173	764.280	764.325	764.422	764.449	764,456	764.467	764,487	764.500
990.8	4,130	5.051	2.921	3,482	2.359	1.682	2.256	1.846	1.804	1,603	2.197	1.304	1.504	1,145	1.622	1.202	1.125	3.127	2.050	1.775	1.684	1.458	1.177	1.412	2,475	2,103	1,192	1.243	1.628	1.440	1.695	1.269	1.210	1.578	1,068	1.768
054	950.	650	.041	044	.041	.035	.037	.036	.036	.034	620.	.032	.035	.031	.035	.031	.031	e 60 .	.039	.037	.037	.034	.032	.034	.043	.041	.031	.032	.036	.035	.036	.032	.032	.035	.030	.038
622	.775	555	479	908	672	1.310	930	606.	938	\$76.	1.093	.767	.722	.907	1.047	1.535	1.120	1.965	1.184	954	1.032	869	.827	. 883	1.096	1.060	906.	.916	366.	870	1.001	.378	.382	675.	.367	.439
12 176	11.715	12.337	11.464	11.672	12,129	11.901	10.719	10.234	10.853	9.972	12.523	10.522	11.363	10.135	9.343	8.470	9.204	9.202	10.381	10,179	11.230	10.512	10.752	10.777	11,230	10.617	10.168	10,590	9.948	10.980	9.879	10.371	10.395	10.065	10.063	10.984
756 419	756.849	757,358	157.501	757.654	757.881	758.187	758,965	759.133	759.248	759.393	759.583	755.837	759.930	760.102	760.234	760.551	761.062	761.003	762.642	763.009	763.249	763,461	763.652	763.706	763.774	763.925	764.097	764.120	764.198	764.269	764.335	764.440	764.447	764.440	764.479	764.482
744.243	745.134	745.021	746.037	745.982	745.752	746.286	748.246	748.899	748.395	749.421	747.060	749.313	748.567	749.966	750.891	752.081	751.858	751.801	752.261	752.830	752.019	752,949	752.900	752.929	752.544	753.308	753.929	753.530	754.250	753.289	754.456	754.069	754.052	754.375	754.417	753.498
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CF20.1	CF211						CF271						12071													18201	35211	35221	35231	35241	38251	JS261	35271	35281	. 25291	J\$301

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W.head (TP m)	739.002	739.005	739.012	739.029	739.136	739.138	739,238	739.449	739.521	742.599	743.692	744.234	744.249	744.2.69	744.281	744.300	744.388	744.663	744.714	744.870	745.228	745.585	745.936	747.137	747.396	747.455	747.867	747,894	748.073	748.300	748,434	748.484
Energy modified	25.1 20.0 20.1	1.162	1.153	1.118	1.048	1.155	1.073	1.023	1.229	1.041	1.026	1.059	1.090	1.067	1.056	1.054	1.146	1.151	1.188	1.792	1.969	6.209	1.288	1.644	2.524	4.704	3.271	3.275	2.351	4.415	1.906	1.541
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Ave.velo (m/s)	180	192	390	,489	775.1	. 607	2.472	2,415	4.899	2.778	4.351	1.296	1.608	1.337	1.990	2.246	2.358	1.940	1.603	1.888	1.510	.975	1.551	3.941	1.175	1.347	.965	596.	1.274	845	.939	.841
Max W.D.	124,000	70.007	64,003	38.466	25.402	24.177	21.624	16.984	19,836	9.919	9.651	13.773	9.105	9.167	9.828	12.618	12.343	9.442	9.559	9.925	6.66.6	12.574	10.278	7.835	13.718	17.419	12.852	13.108	10.988	12,949	12.349	12.429
W.level (TP m)	739.000	739.001	739.003	739.016	739.112	739.117	738.904	739,144	738.016	742.189	742.701	744.143	744,105	744.167	744.067	744.028	744.063	744.442	744.559	744.545	744,999	745.284	745.778	745.835	747.218	747.019	747.712	747.738	747.878	748.139	748.349	748,429
elevatí. (TP m)	615.000	669.000.	675.000	700.550	713.710	714.940	717.280	722.160	718.180	732.270	733.050	730.370	735,000	735,000	734,239	731.410	131,720	735,000	735.000	734.620	735,000	732.710	735,500	738.000	733.500	729,600	734.860	734.630	736.890	735.190	736,000	736,000
dischar. (m /s)		8358.000			8358,000	8358,000			8358,000	8358,000		5122,000	5122.000			•	•	•	•	•		5122,000	•	•	•	•			•		5122,000	5122.000
distance (m)	9230,000	10000,000	11540.000	2160.000	200.000	1400.000	1420.000	100.000	3040,000	640.000	200,000	70.000	70,000	60.000	20.000	260.000	1200,000	300,000	690.000	1400,000	1400.000	1600,000	1400,000	300.000	300.000	2170.000	230.000	1200,000	1400.000	1368,600	999.100	232,300
sec name	CN011 CN021	0.000	CN051	190ND	C8083	CNOST	CNIOL	CN111	CN121	XN131	FN141	FN151	FN152	FN153	FN154	FN161	CN171	FNIST	FN191	FN201	FN211	CN221	FN231	ZN241	FN251	CN2 61	CN271	CN281	CN291	CN301	FTOIL	FT021

1255 1272 1289 748.495 748.548 748.548 748.548 748.627 748.627 748.829 748.829 748.829 749.228 749.238 749.238 749.238 749.238 749.238 749.238 749.238 749.238 749.238 749.238 749.238 749.238 749.238 749.238 750.238 750.238 751.512 751.512 751.512 751.512 751.512 751.512 753.388 753.388 753.388 753.398 753.398 753.398 753.398 753.398 753.398 753.398 753.398 753.398 753.398 753.398 753.398 753.398 753.398 753.398 . 535 1.191 12, 430 12, 430 13, 251 13, 251 12, 792 12, 792 12, 792 13, 792 14, 641 15, 792 16, 324 17, 186 18, 792 18, 792 18, 792 18, 792 19, 79 748.430 748.439 748.484 748.484 748.581 748.581 748.581 748.582 748.581 748.581 748.581 749.560 749.560 749.560 749.560 749.560 749.560 749.560 749.560 749.560 749.560 749.560 749.560 749.560 749.560 750.273 732.826 736.500 736.500 736.500 736.500 736.500 736.500 736.500 736.500 736.500 736.500 736.500 736.500 736.500 736.500 736.500 740.237 740.674 740.674 740.674 740.674 740.637 741.681 741.681 741.681 741.681 743.623 743.623 734.254 \$122.000 \$12 762.800 737.200 3308.600 999.700 736.700 999.700 999.700 990.700 990.700 990.700 990.700 990.700 990.700 990.700 990.700 990.700 214.300 1005.700 291.500 998.200 291.500 998.200 291.500 3500.000 3500.000 3550.000 3550.000 FN311
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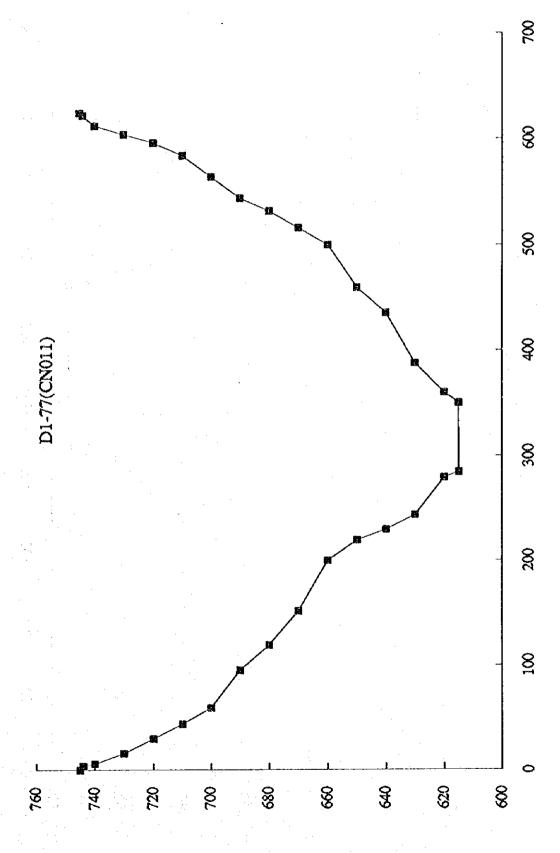
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5.099	4.130	5.051	2.921	3.482	2.359	1.682	2.256	1.846	1.804	1.603	2.197	1.304	1.504	1,145	1.622	1.202	1.125	3.127	2.050	1,775	1.684	1.458	1.177	1.412	2.475	2,103	1.192	1.243	1.628	1.440	1.695	1.269	1.210	1.578	1,068	1.768
.054	.046	. 059	.041	.044	.041	.035	.037	.036	.036	.034	.039	.032	.035	.031	.035	.031	160.	.043	650.	.037	.037	, 034	.032	.034	.043	.041	.031	.032	980	035	.036	.032	.032	.035	.030	038
.622	377.	.555	.479	.806	.672	1.310	. 930	606.	.938	. 975	1.093	.767	.722	- 907	1.047	1.535	1,120	1.965	1.184	.954	1.032	698.	.827	.883	1.096	1.060	906.	916	995	.870	1.001	.378	.382	.579	.367	.439
12.176	11,715	12.337	11.464	11.672	12.129	106.11	10.719	10.234	10,853	9.972	12.523	10.522	11.363	10.135	9.343	8.470	9.204	9.202	10.381	10.179	11.230	10.512	10.752	10.777	11.230	10.617	10.168	10.590	9.948	10,980	9.879	10.371	10.395	10.065	10.063	10.984
756.419	756.849	757.358	757.501	757,654	757.881	758.187	758.965	759.133	759.248	759.393	759.583	759.837	759.930	760,102	760.234	760.551	761.062	761.003	762,642	763.009	763.249	763.461	763.652	763.706	763.774	763.925	764.097	764.120	764.198	764.269	764,335	764.440	764.447	764.440	764.479	764.482
744.243	745.134	745.021	746.037	745.982	745.752	746.286	748.246	748.899	748,395	749.421	747.060	749.315	748.567	749.966	750.891	752.081	751.858	751.801	752.261	752.830	752.019	752.949	752,900	752.929	752,544	753,308	753.929	753.530	754.250	753.289	754.456	754.069	754.052	754,375	754.417	753,498
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CF201									35031		35051										JS151	35161	35171	35181	35191	JS201	35211	JS221	35231	35241	32251	32261	35271	JS281	JS291	18301

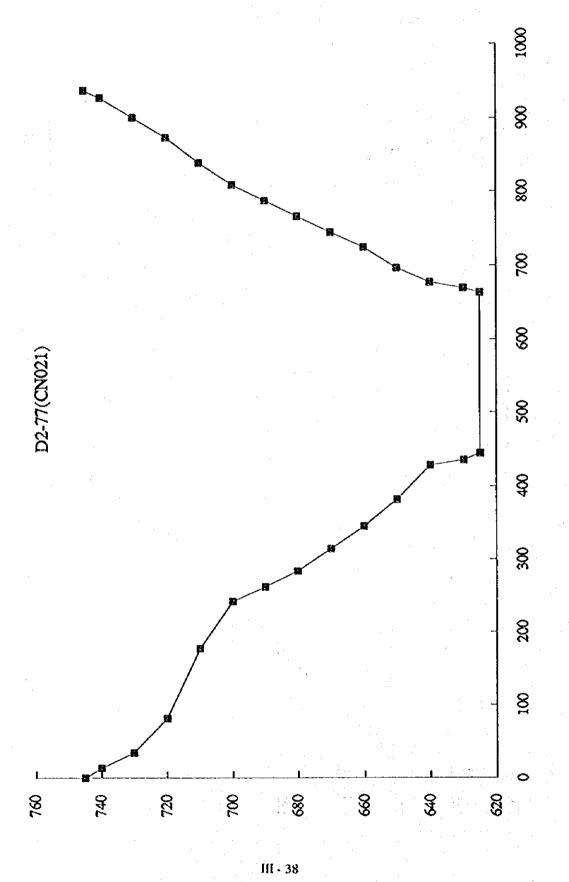
3. RIVER CROSS SECTION DATA

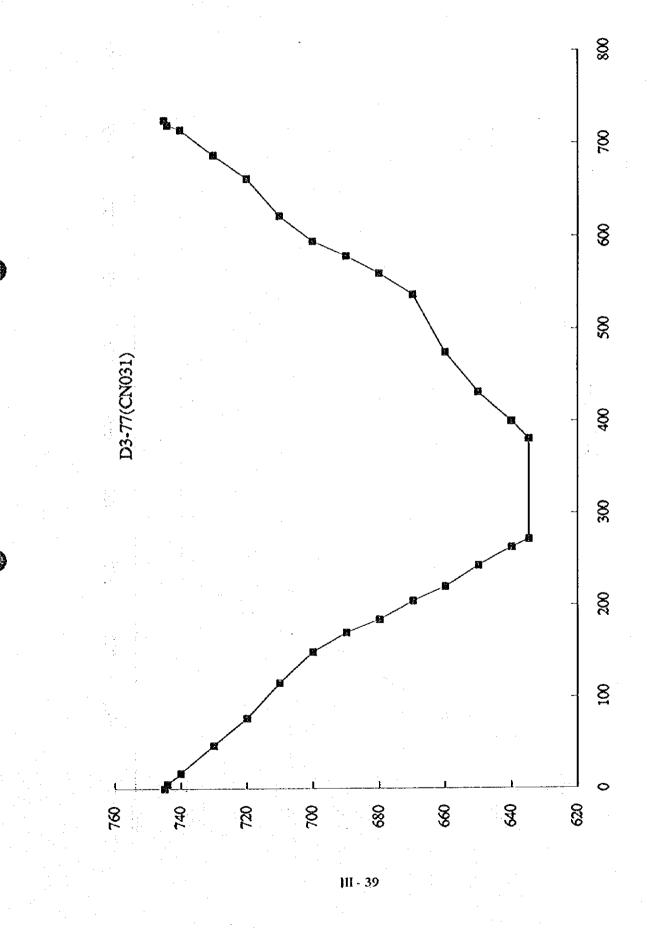
,1 Original River Cross sections

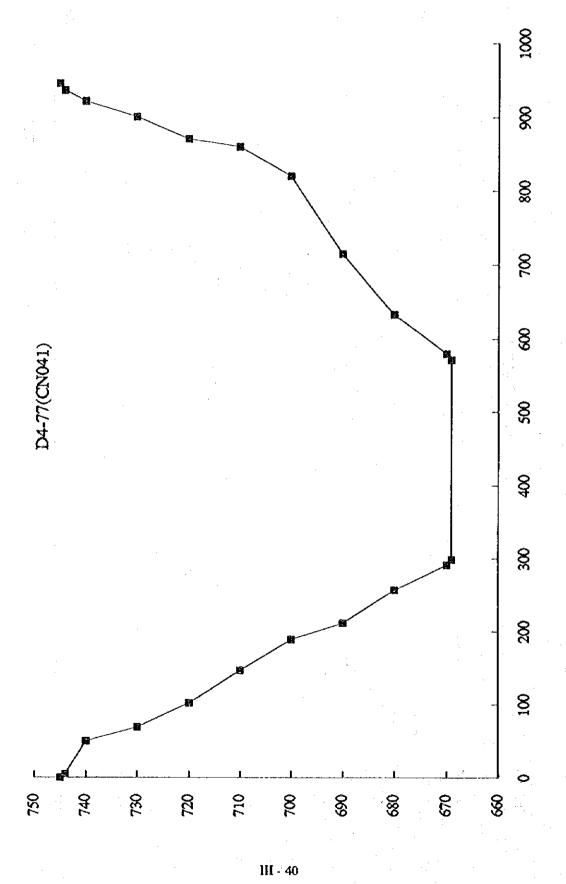
ithout Excavation (Original data)

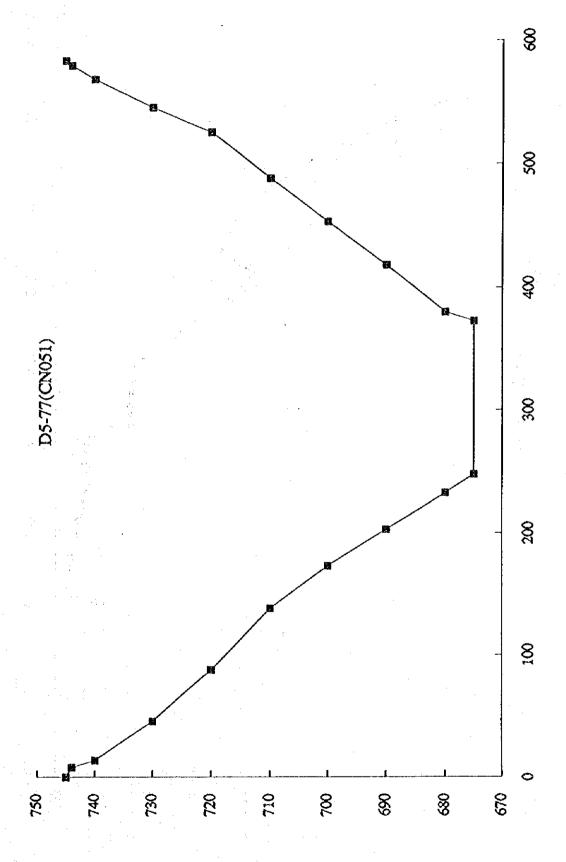
Section No. (n)	Original	Section	Distance	Accumulated	Original	Section	Distance	Accumulated
D3.77 CN011 9216000 9210000 18 GPF TH81 991.000 99700.500 19.0001 19.00001 19.0001					Section	No.		Distance
D2-77	name		(m)					
D3-77 CNS11 12300000 18460.000 19.0FP 17191 998.171 988992.178 19.577 CNS11 11510.000 30769.000 1002.592 17201 1002.592 10								
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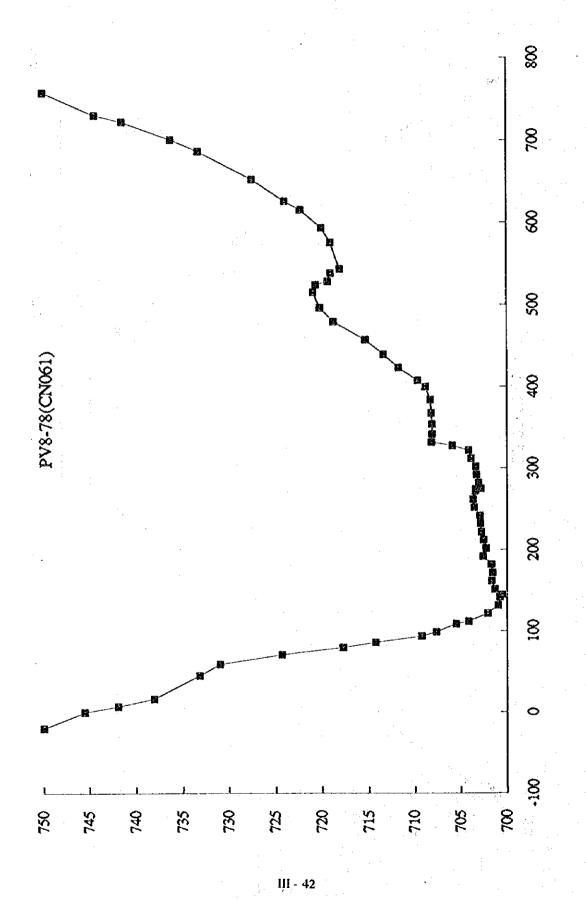


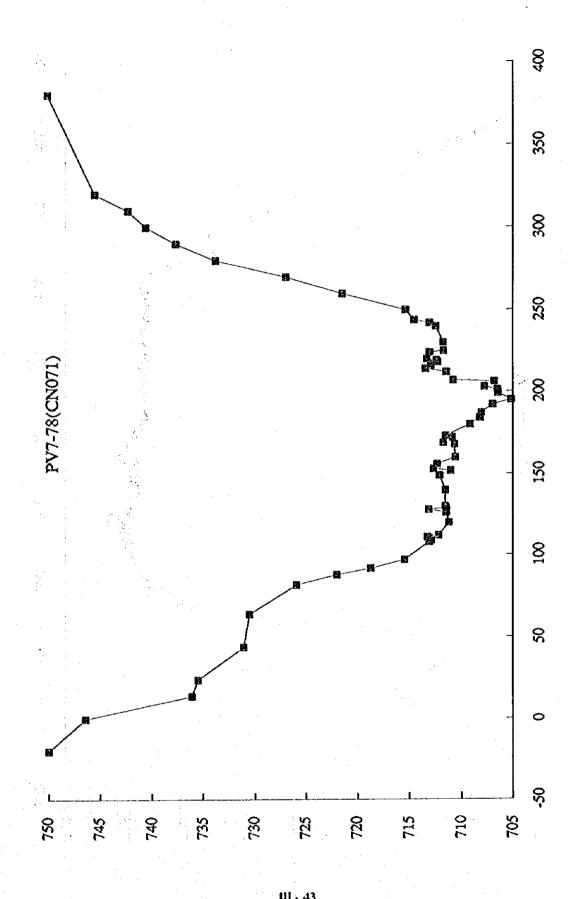


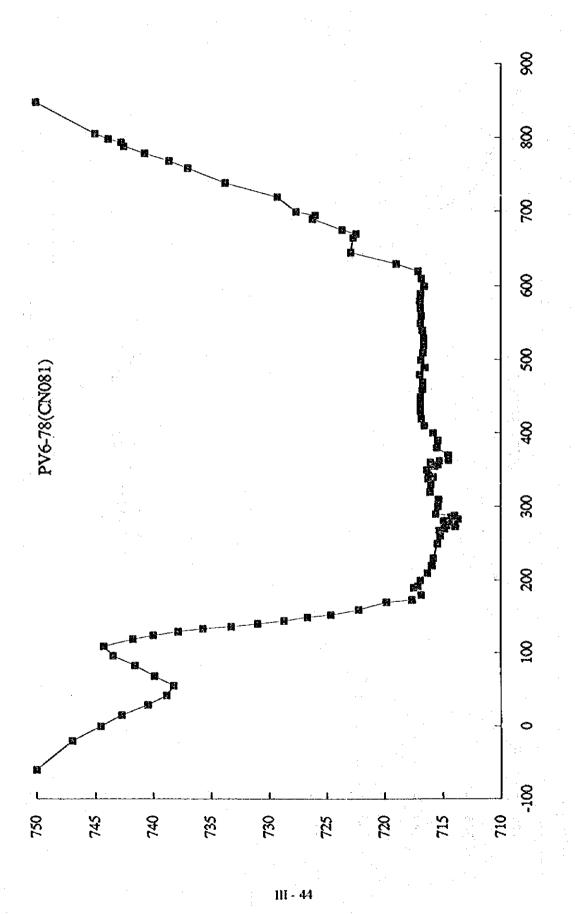


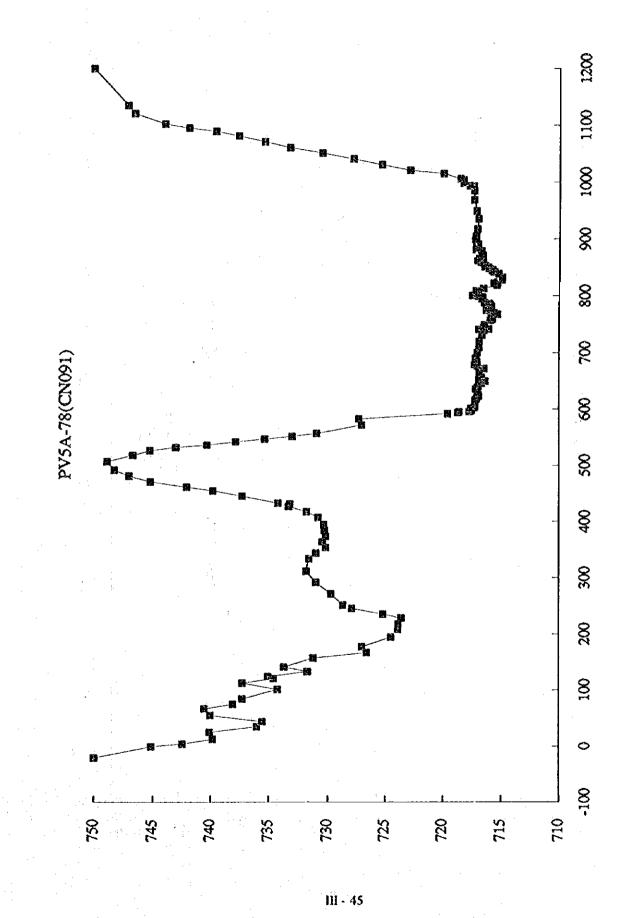


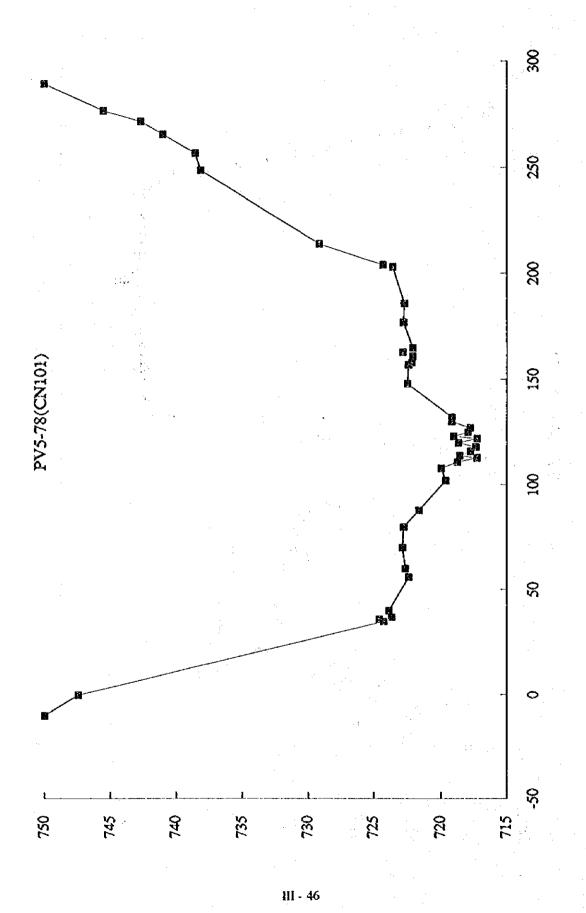


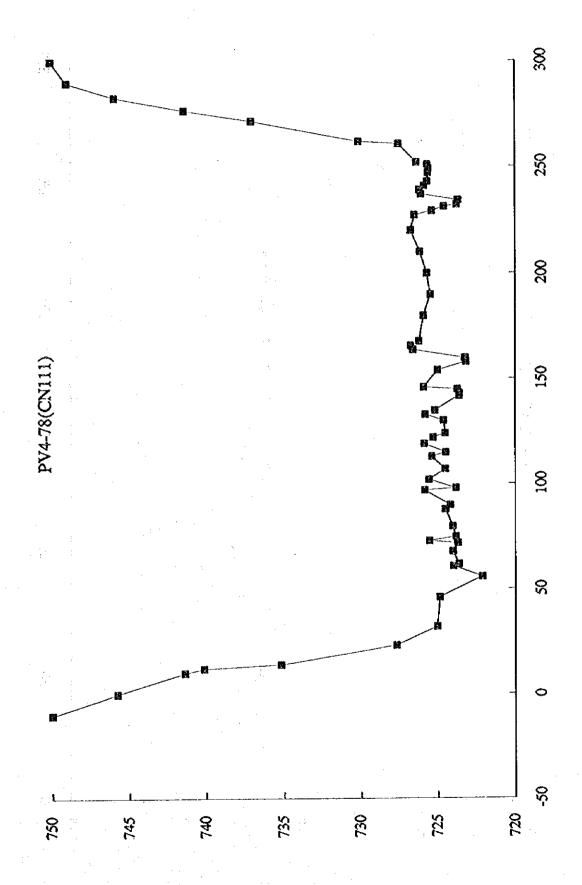




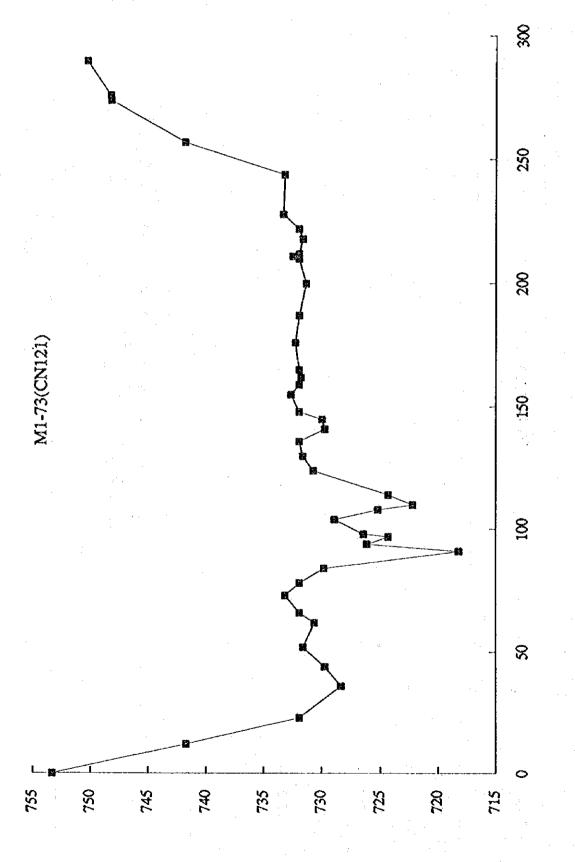




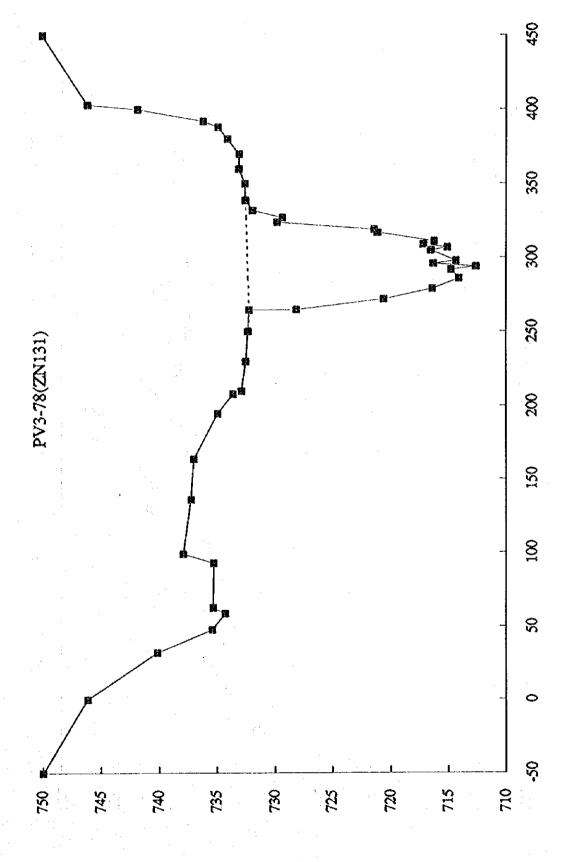


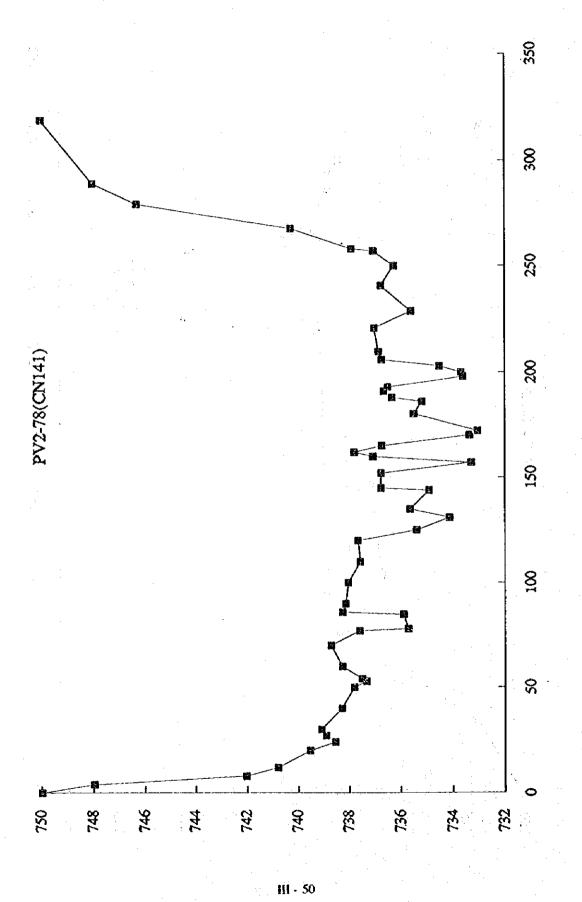


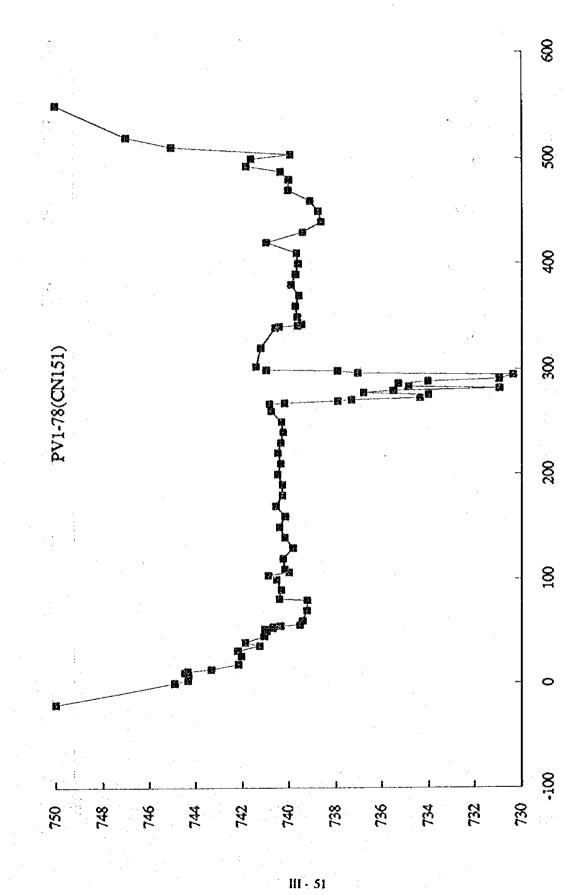
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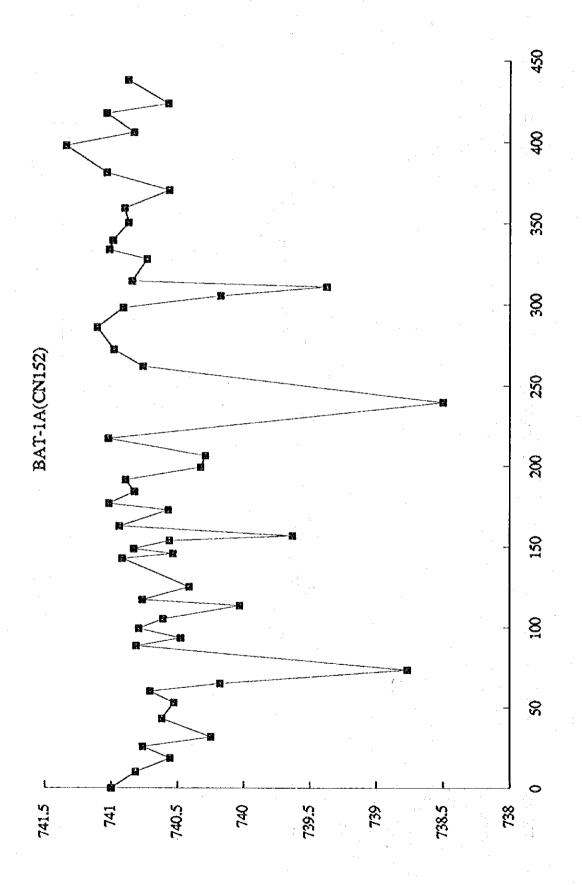


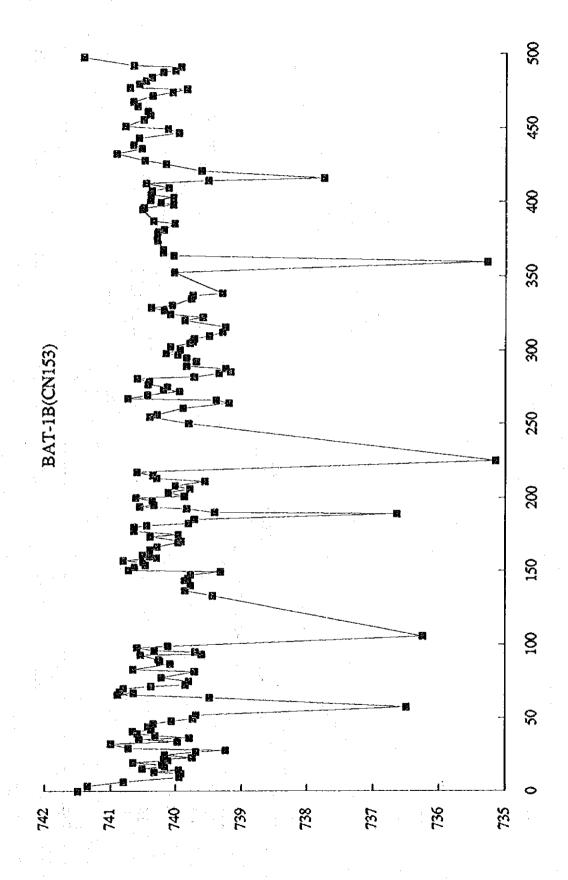
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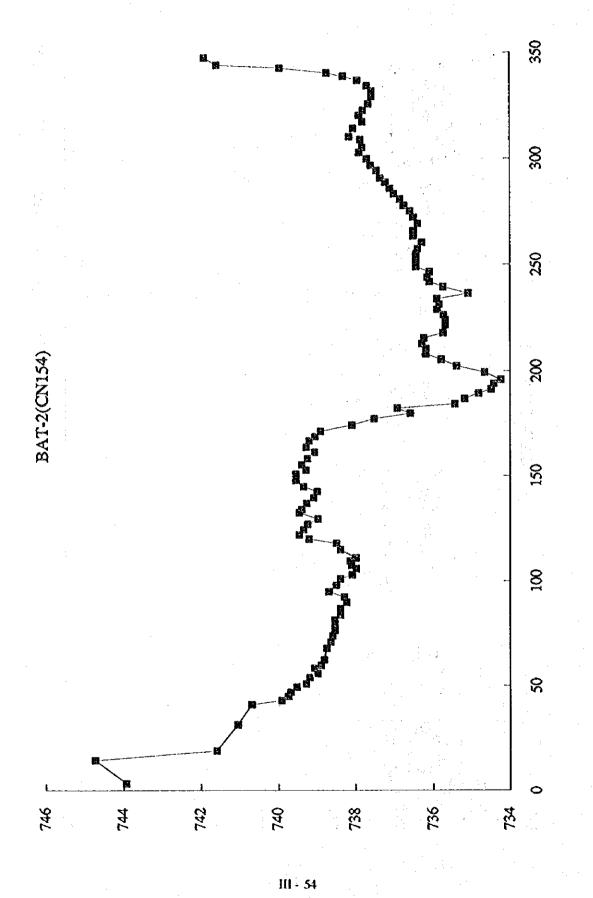


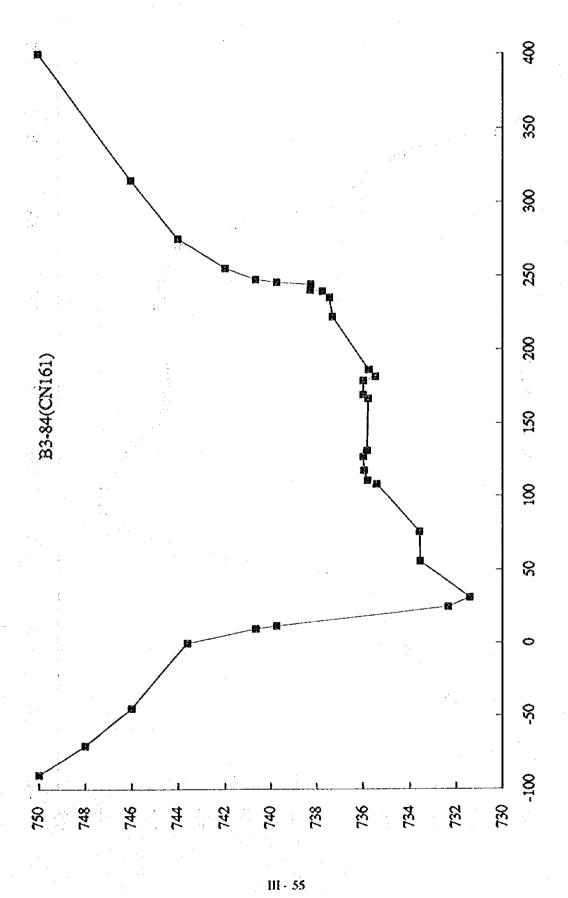


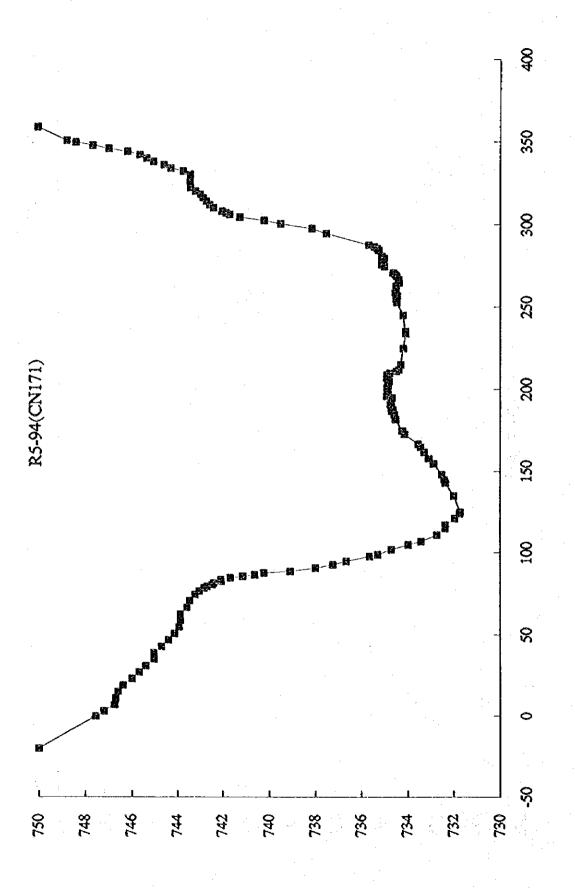


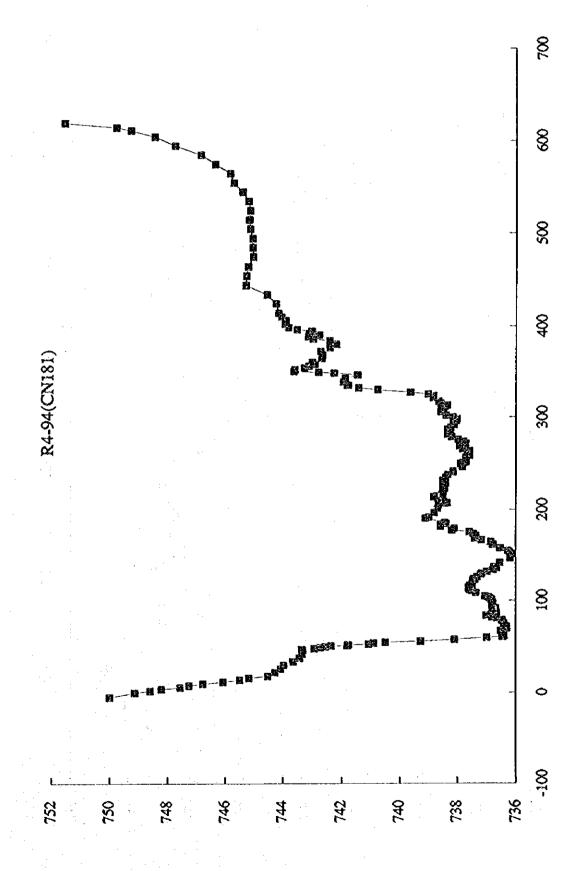




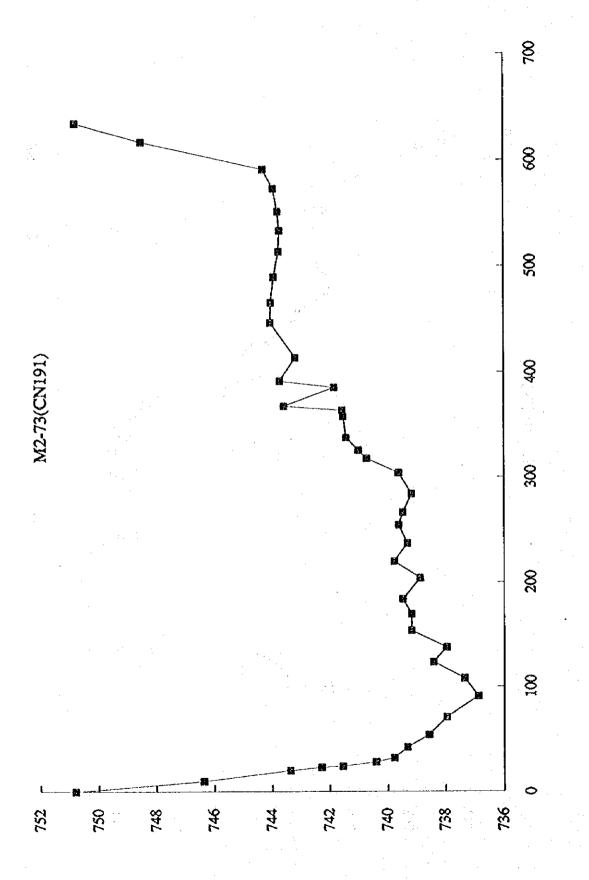


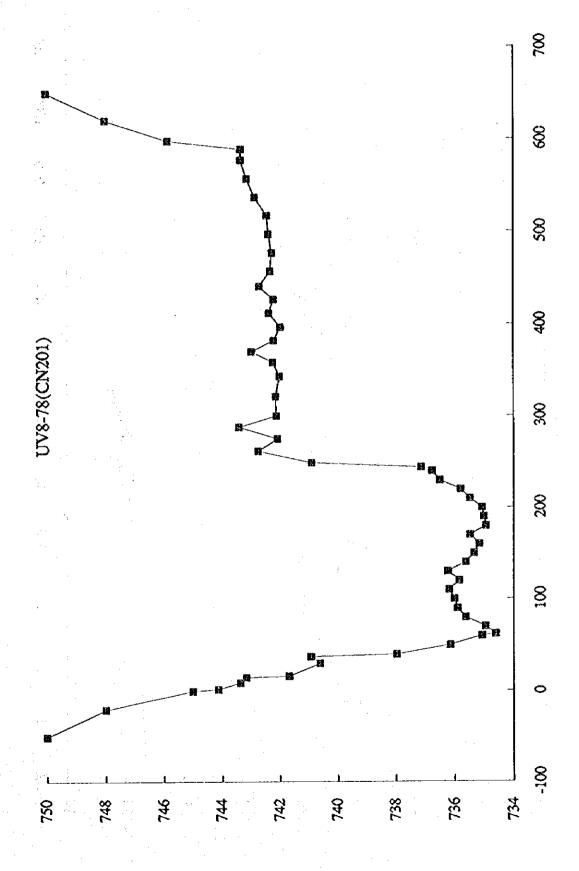


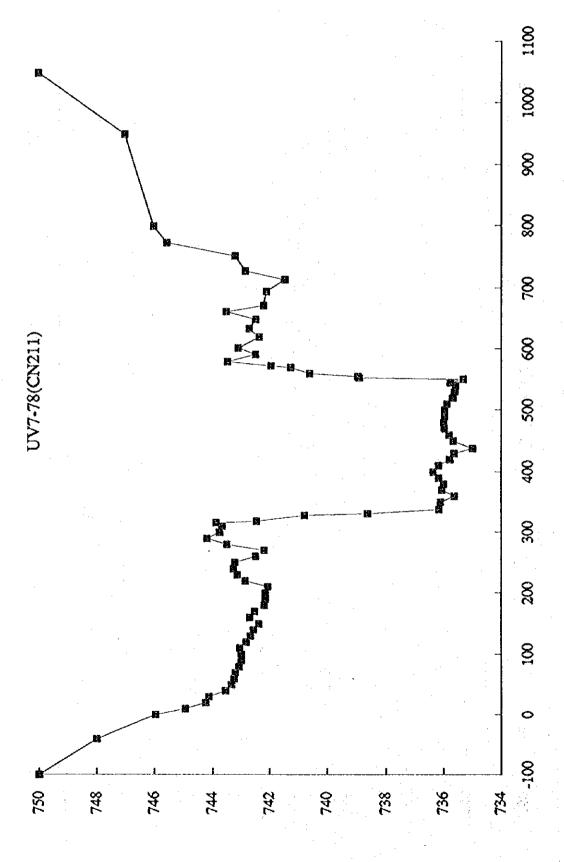


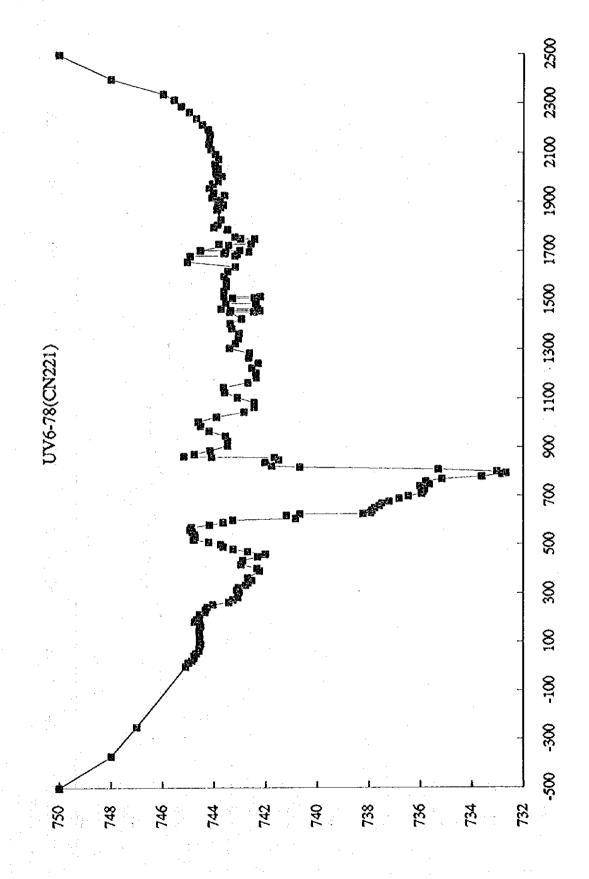


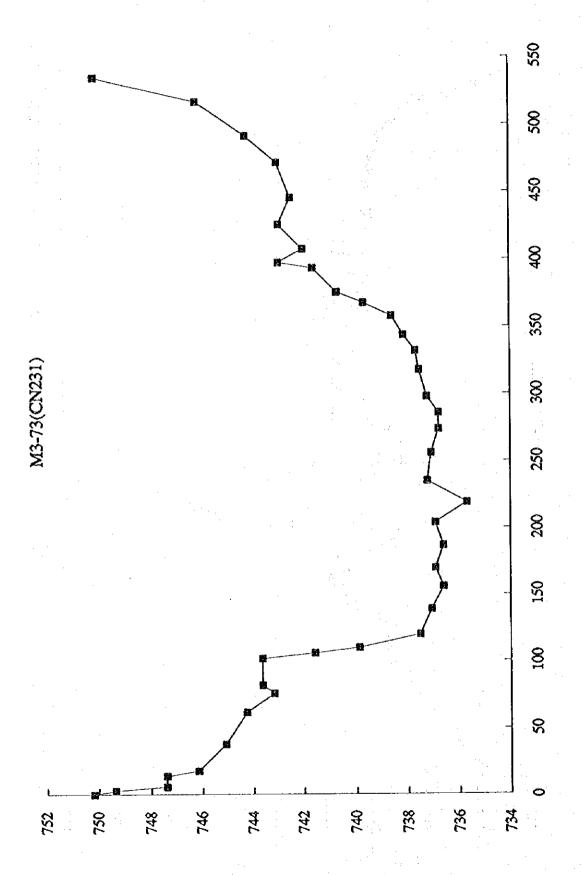
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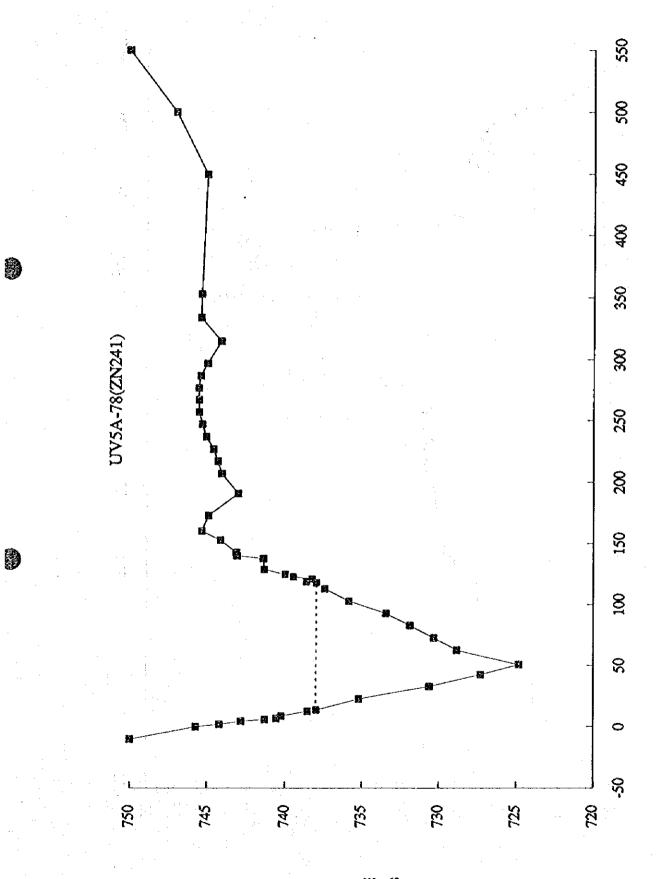


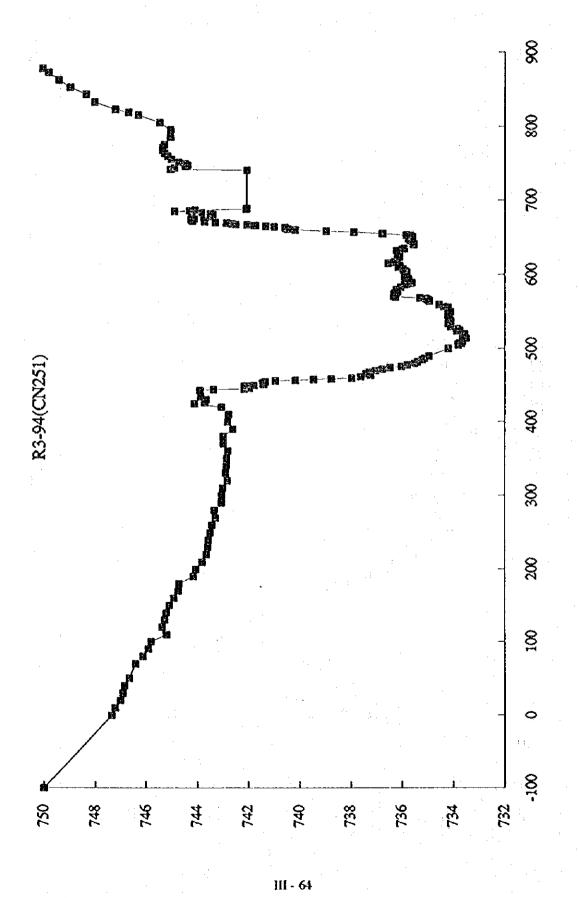


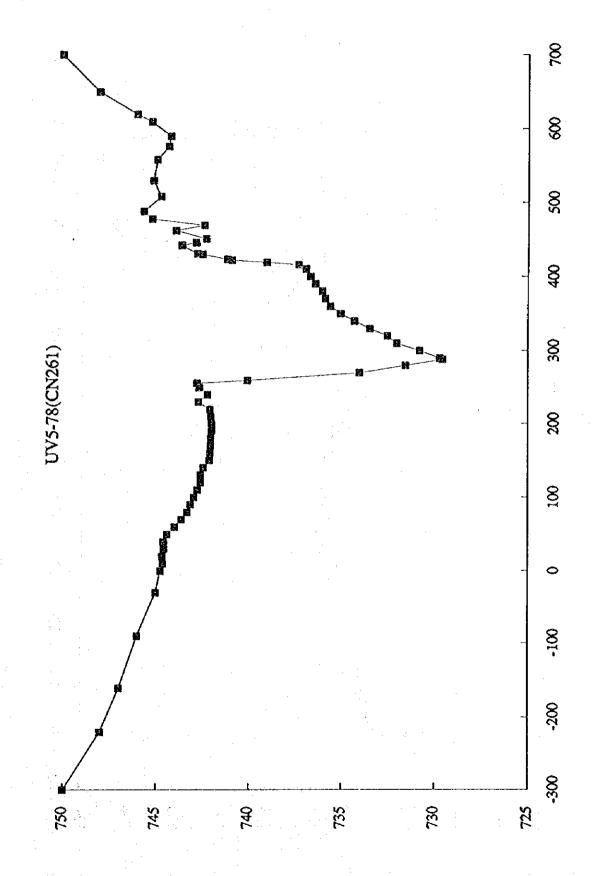


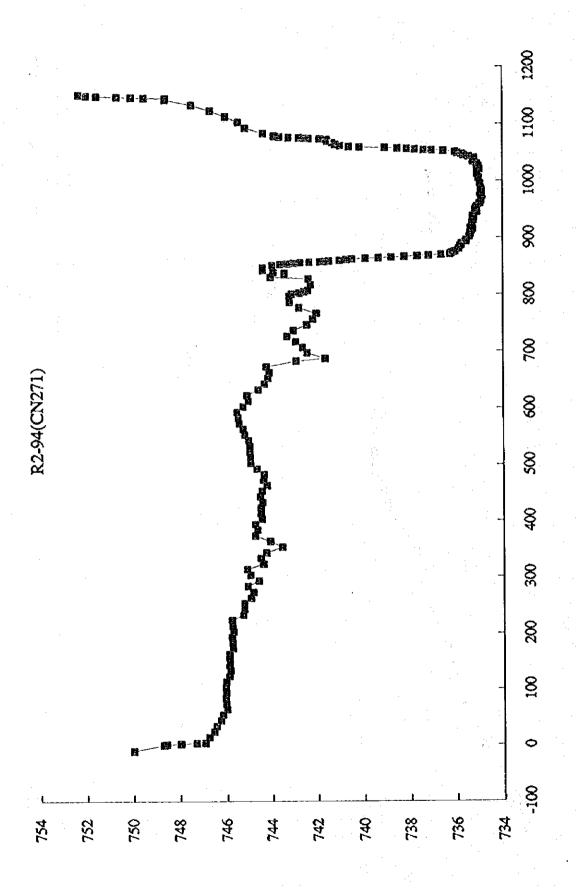


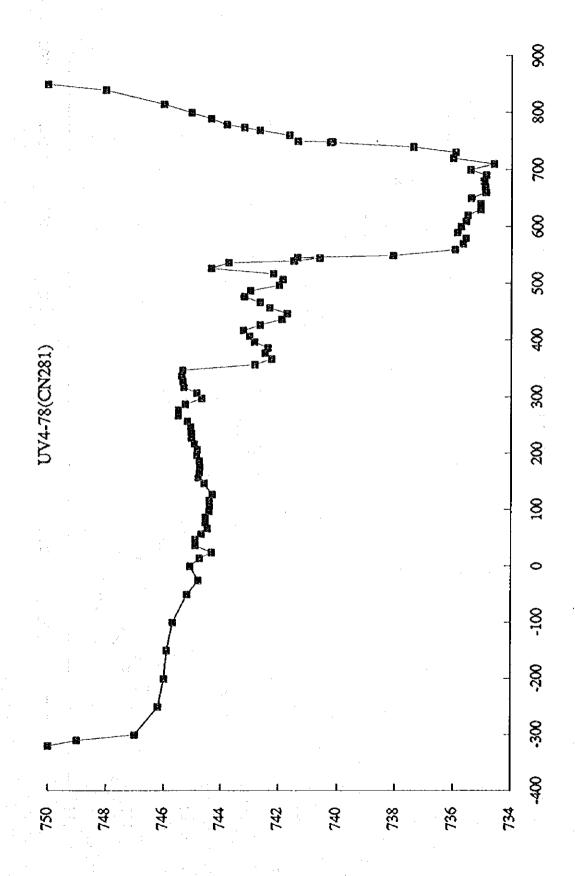


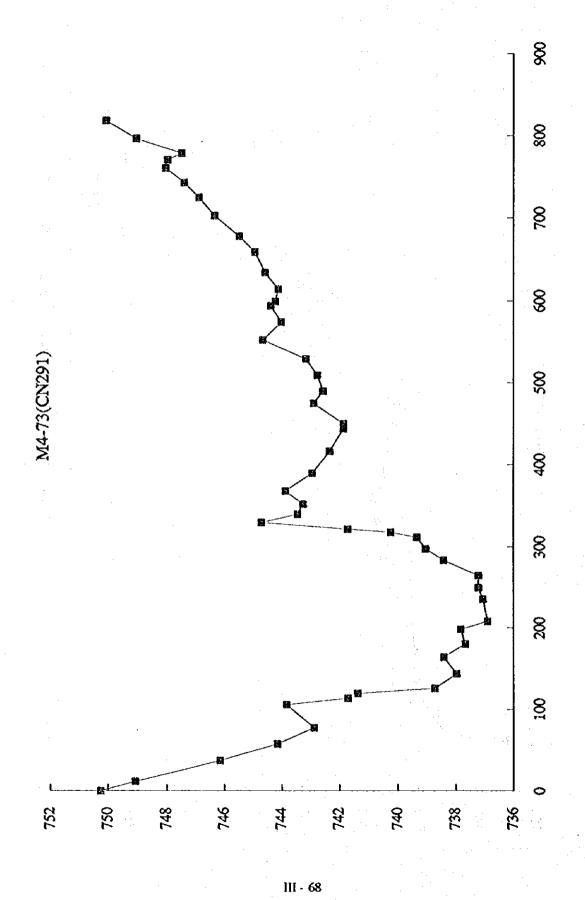


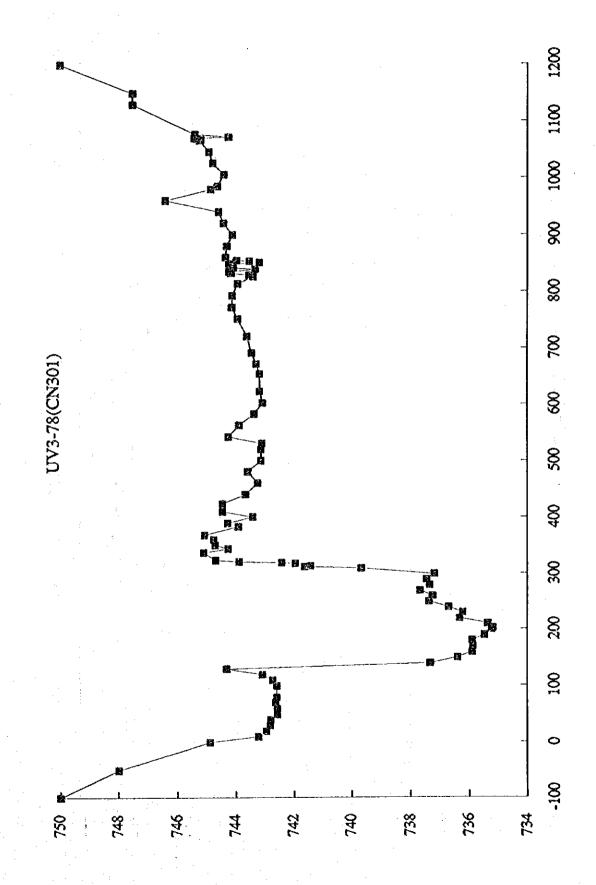


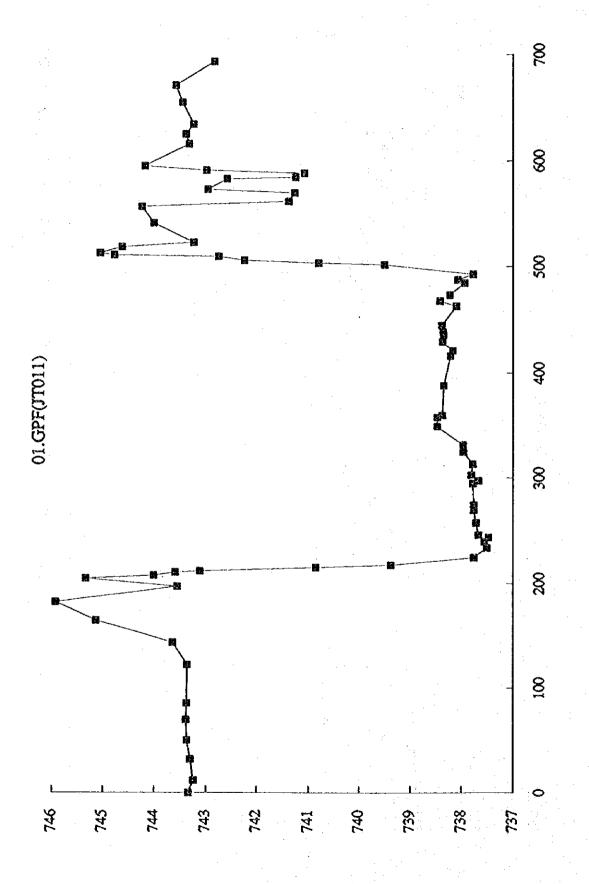


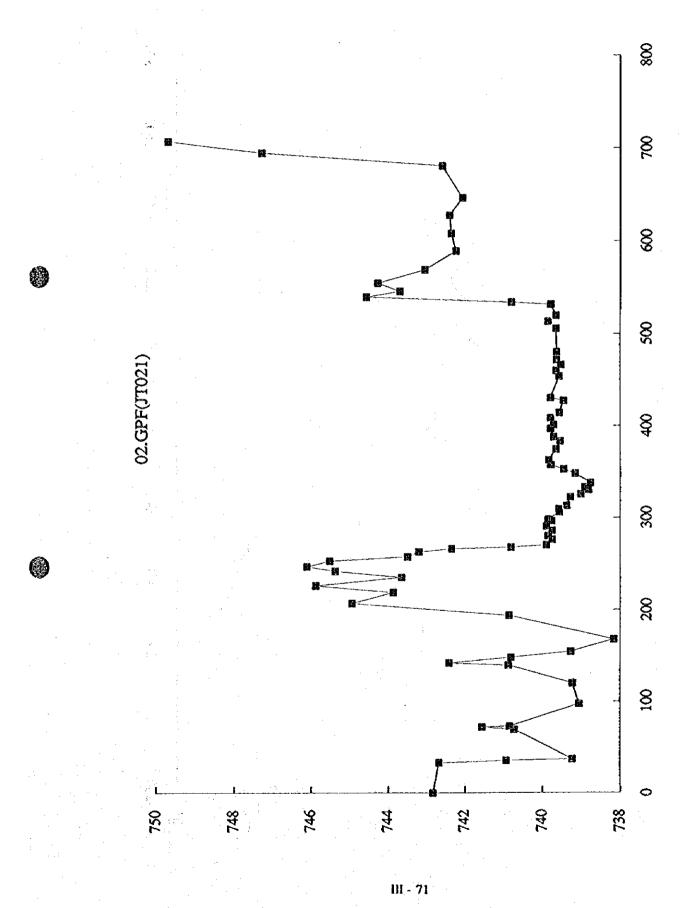


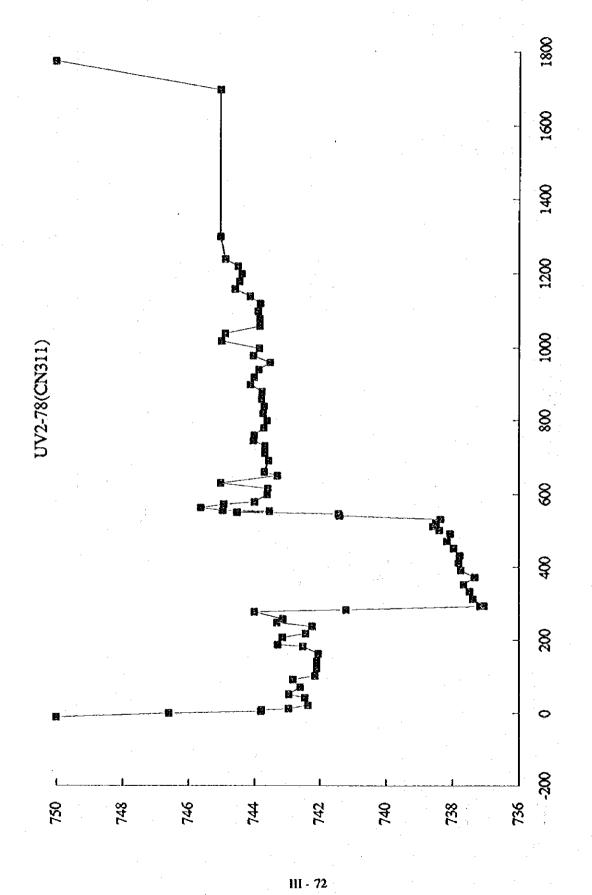


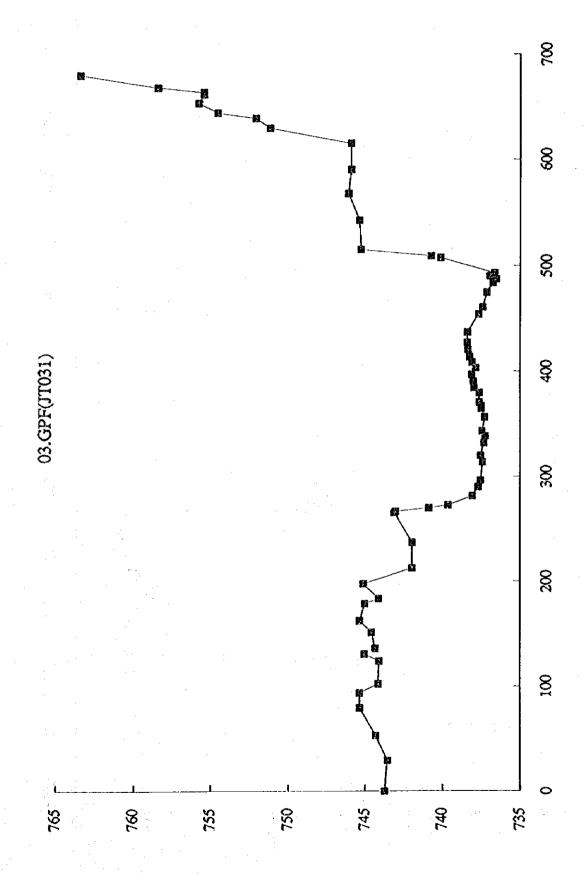


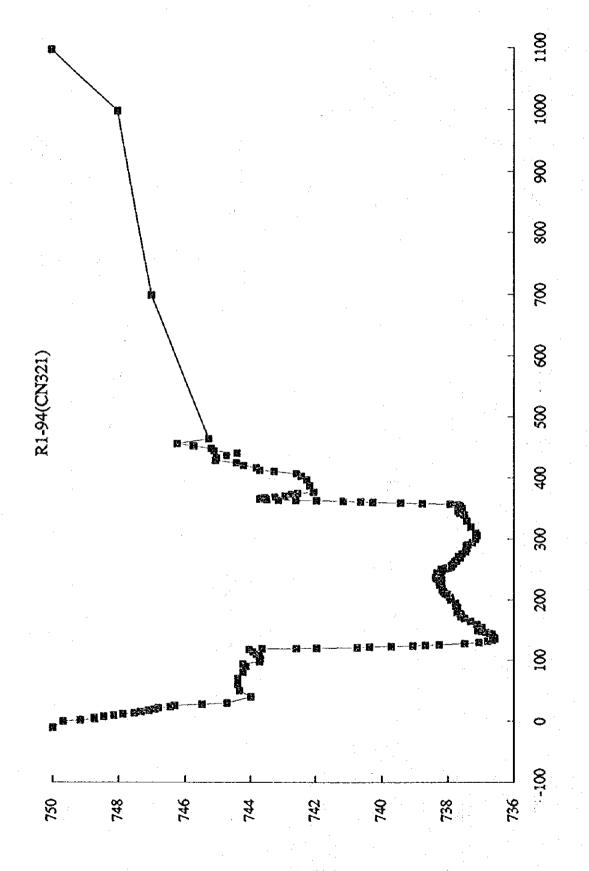


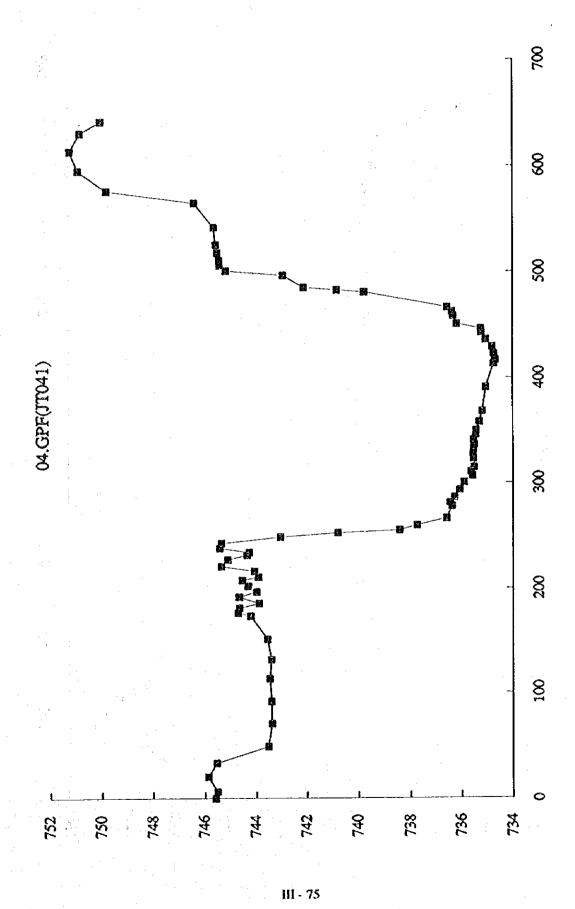


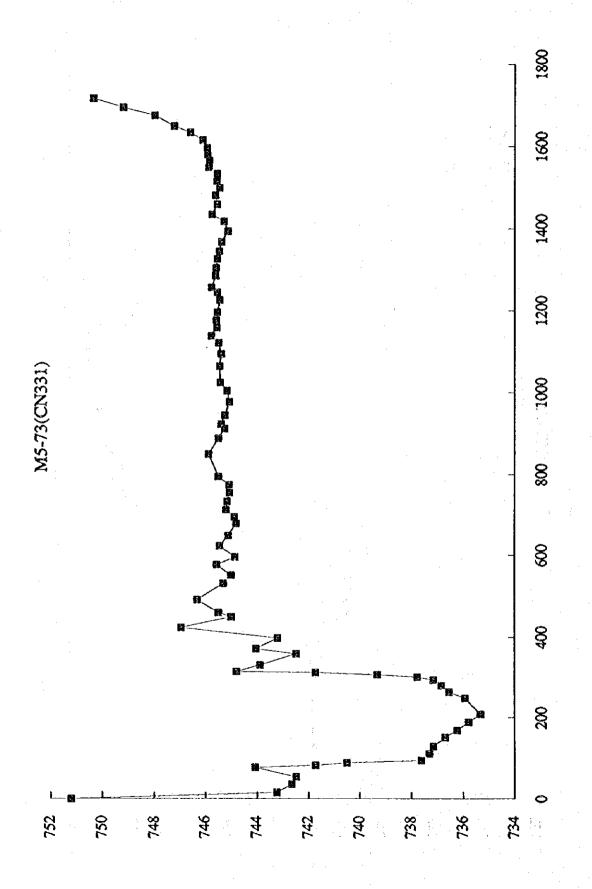


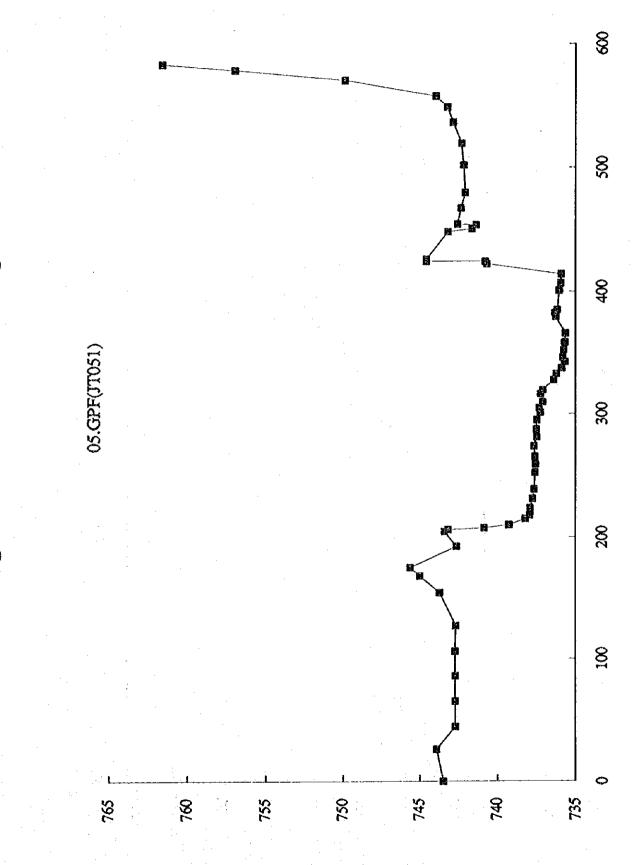


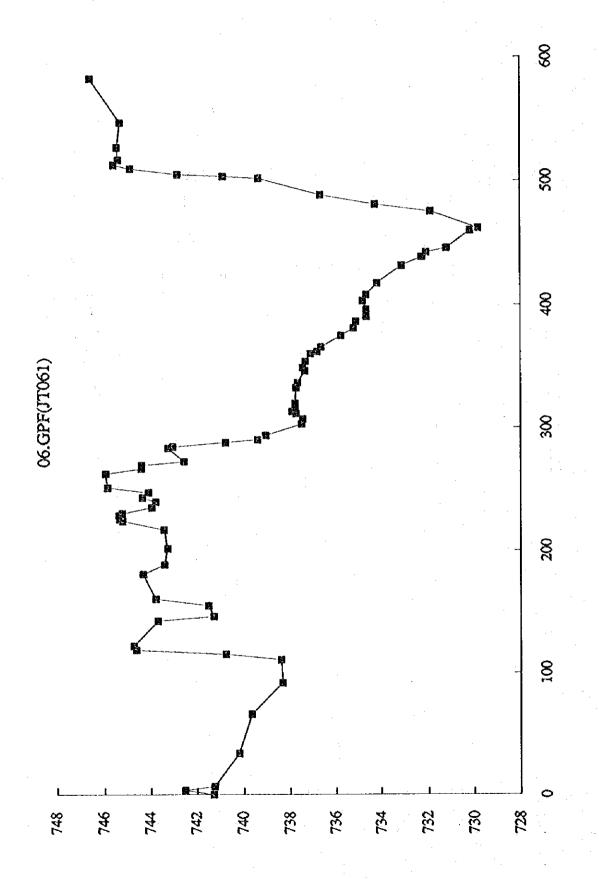


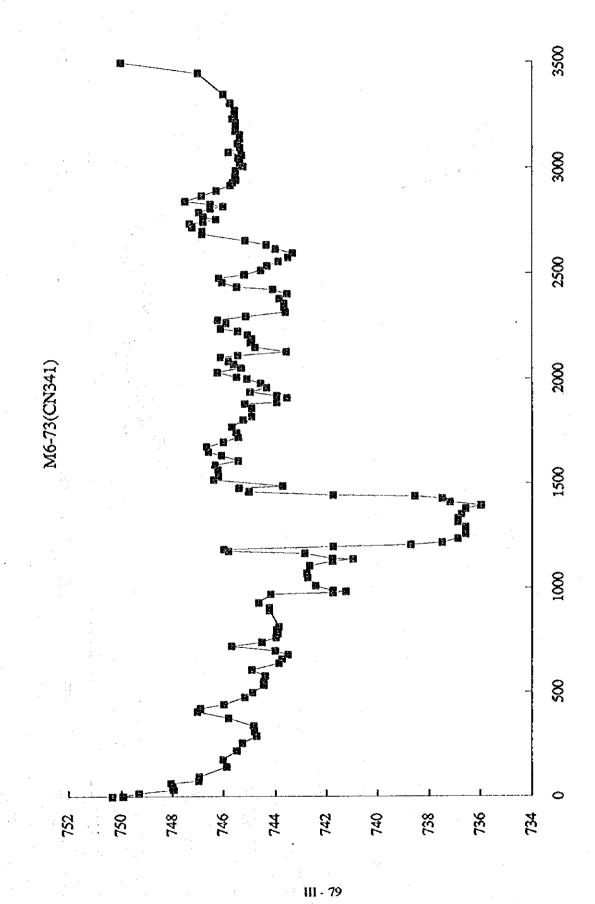


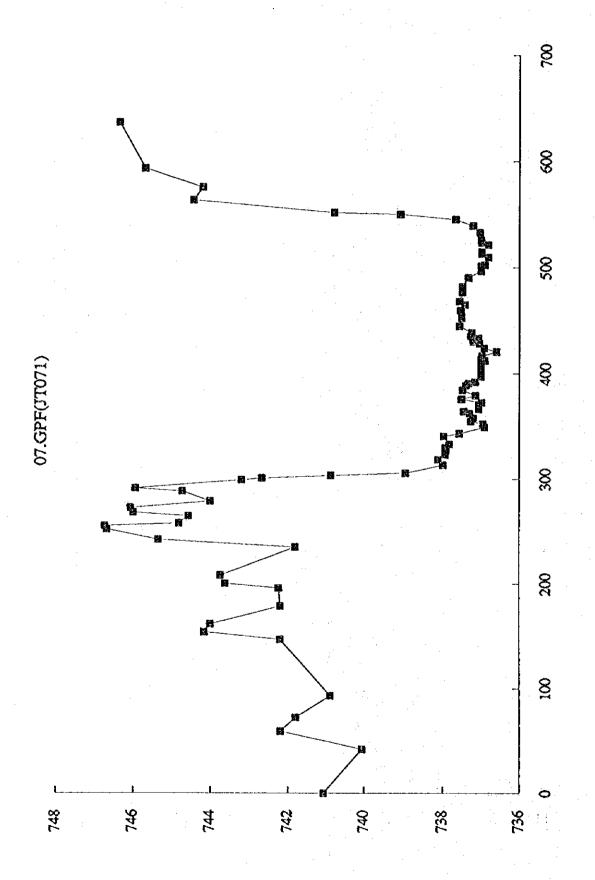


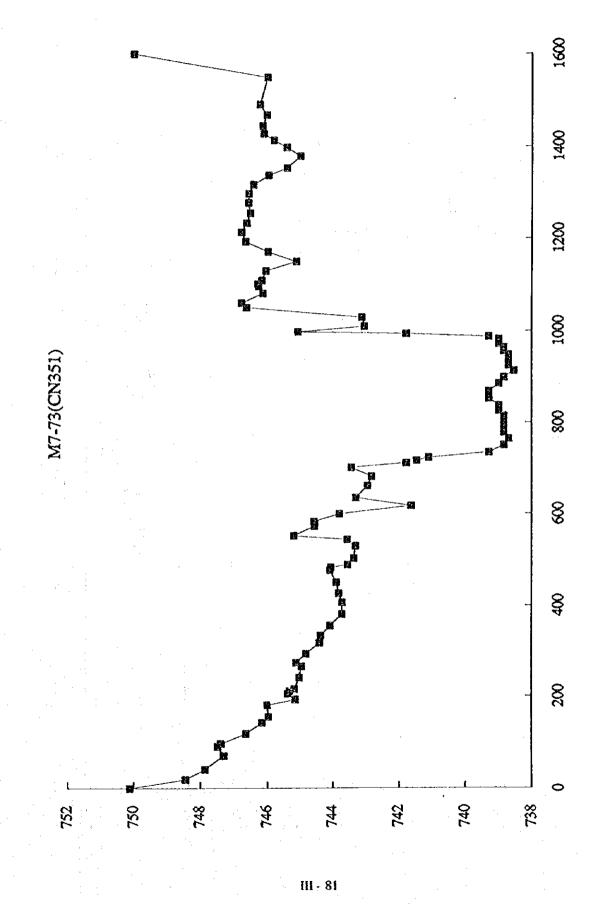


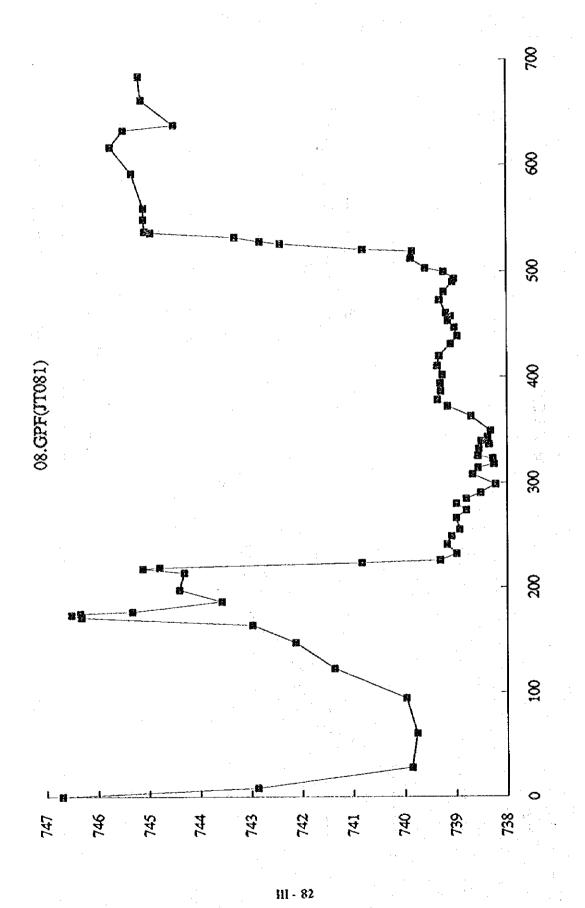


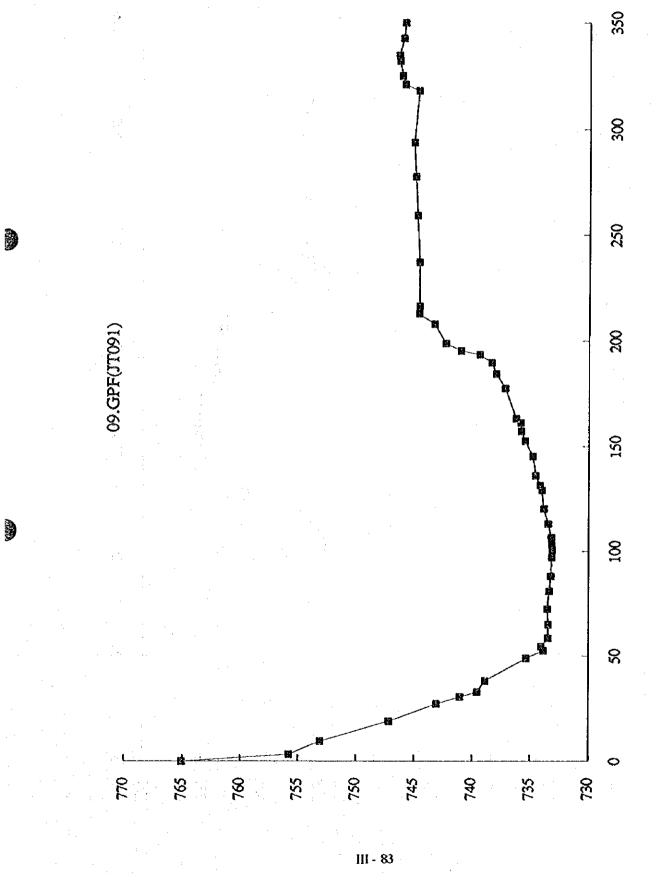


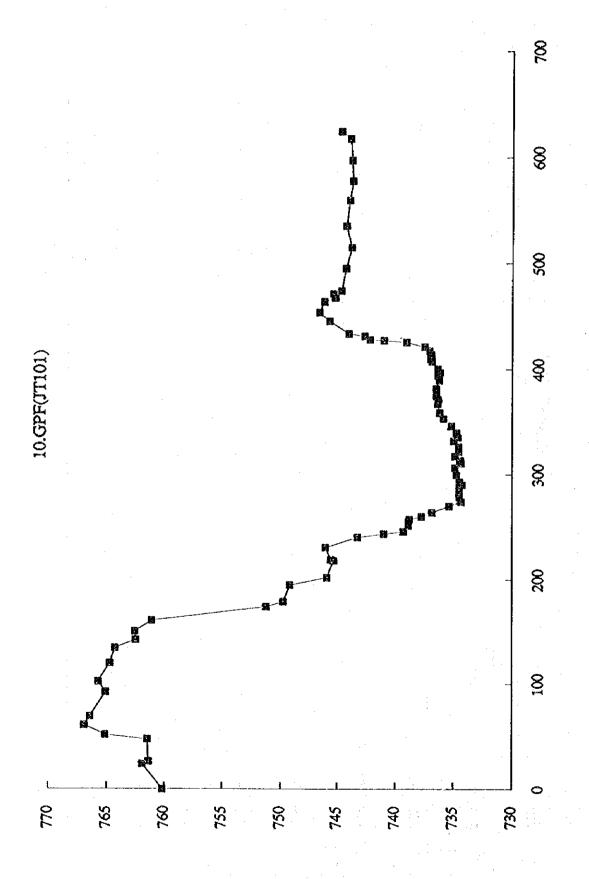




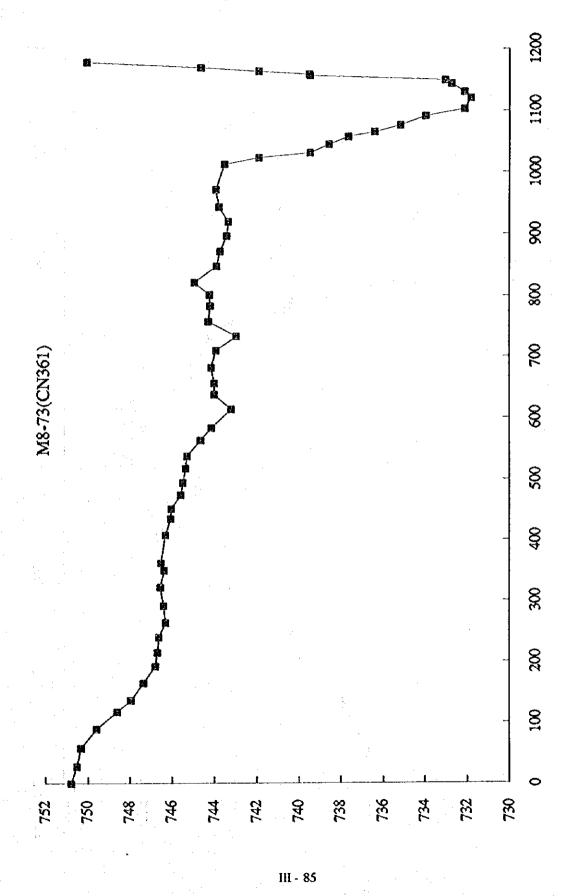


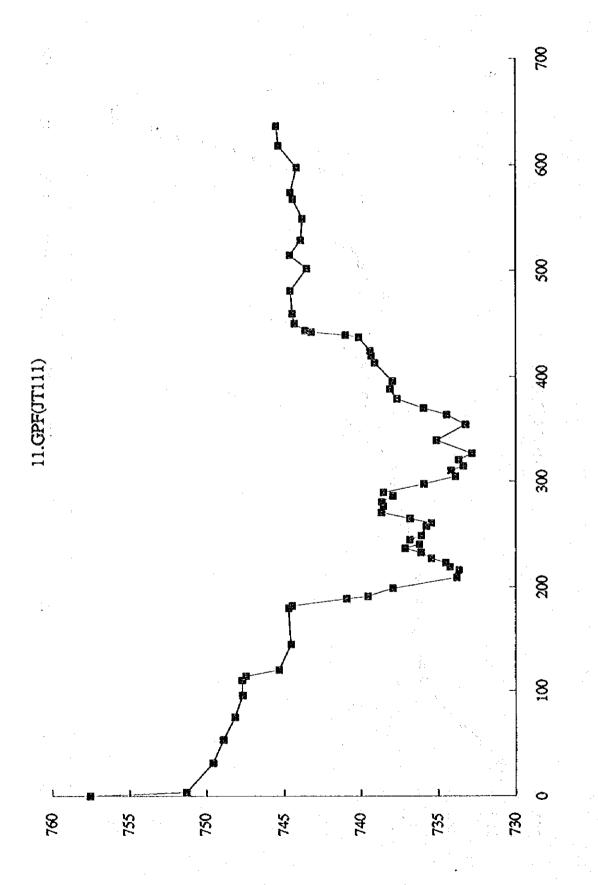


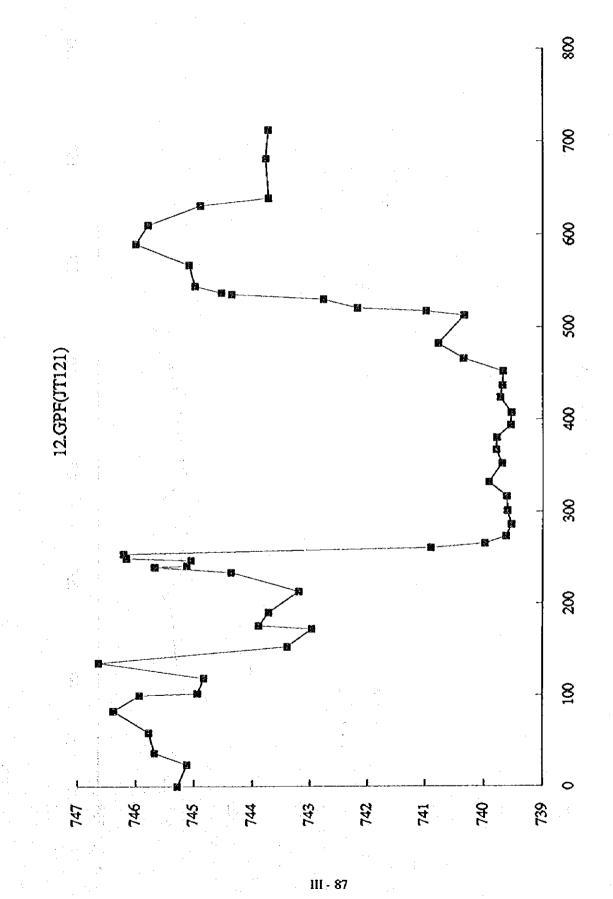


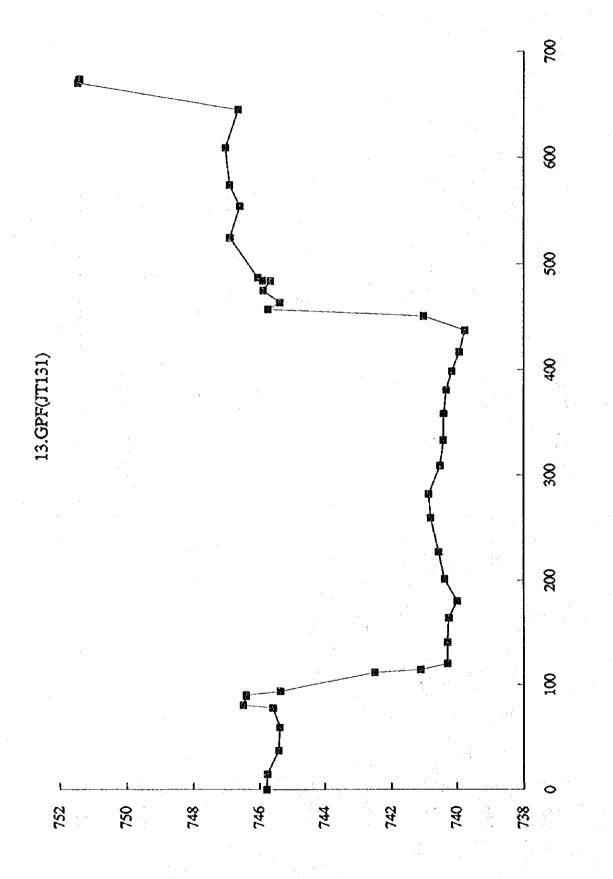


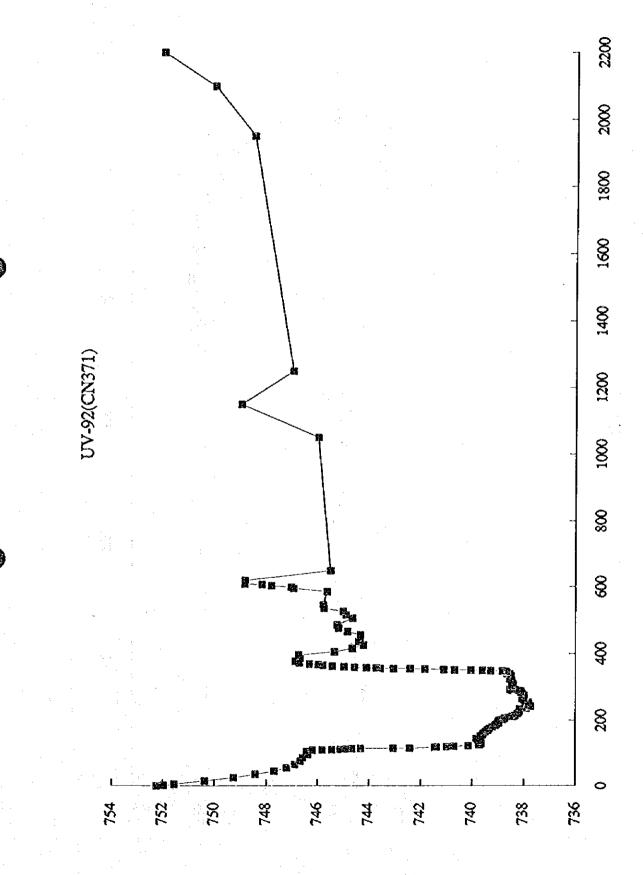
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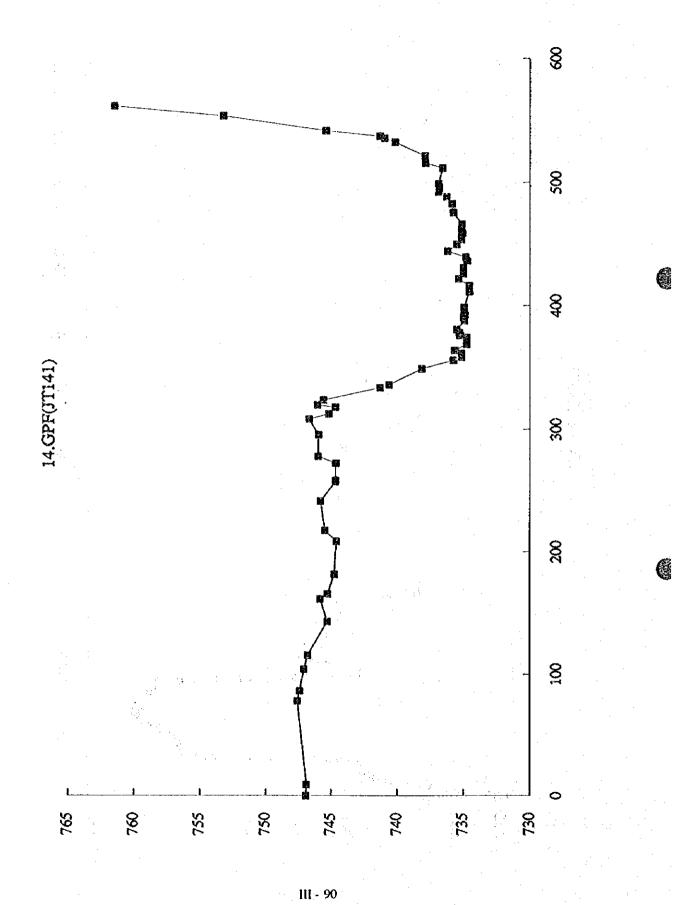


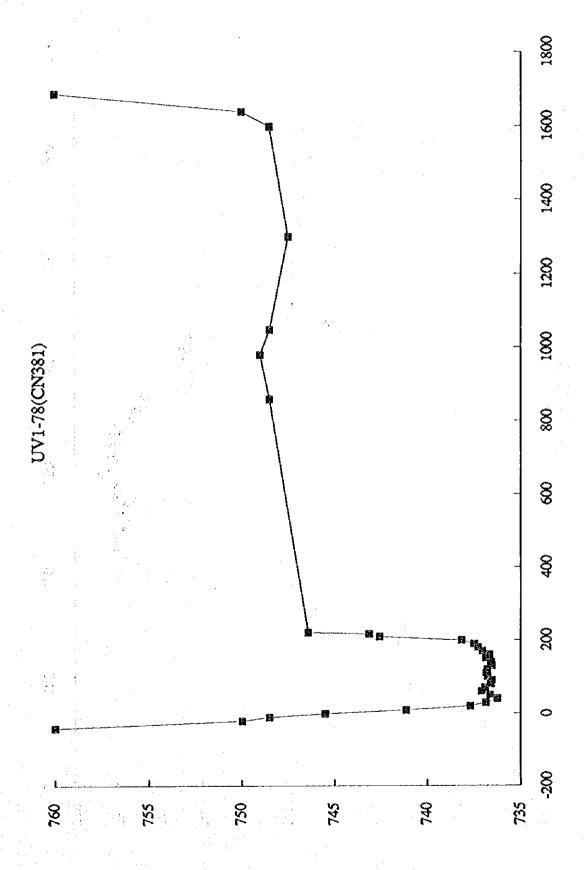


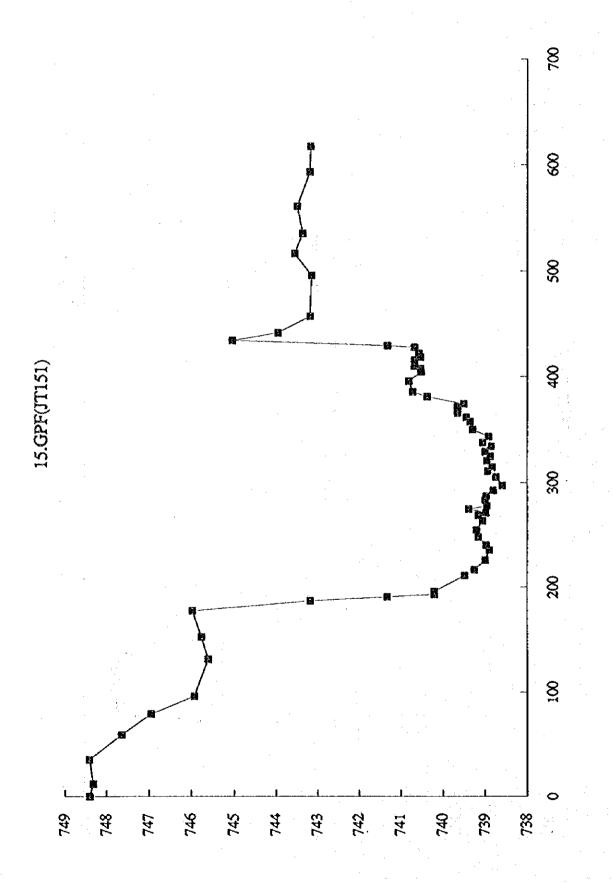




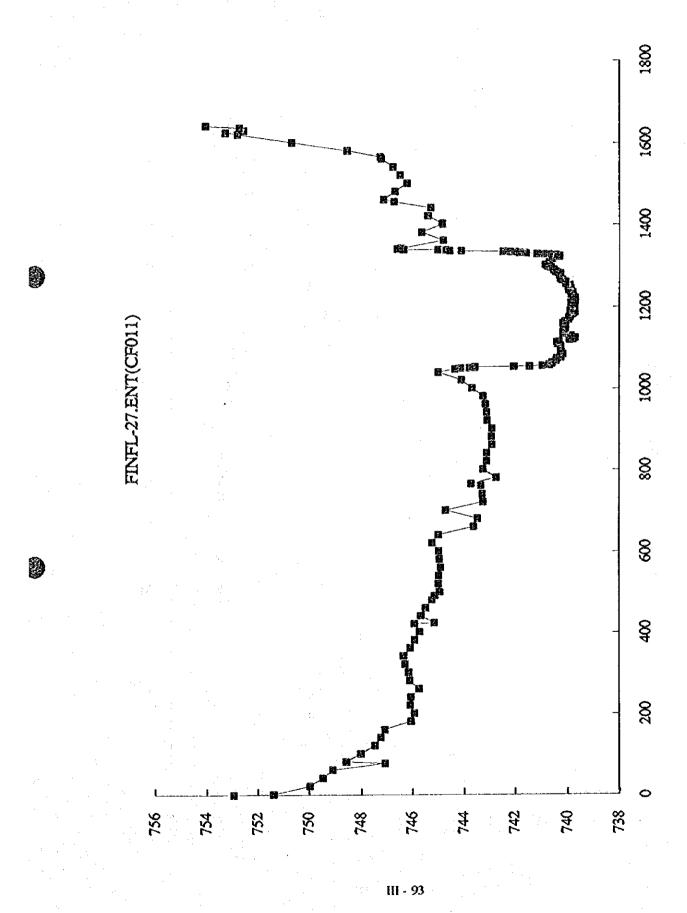


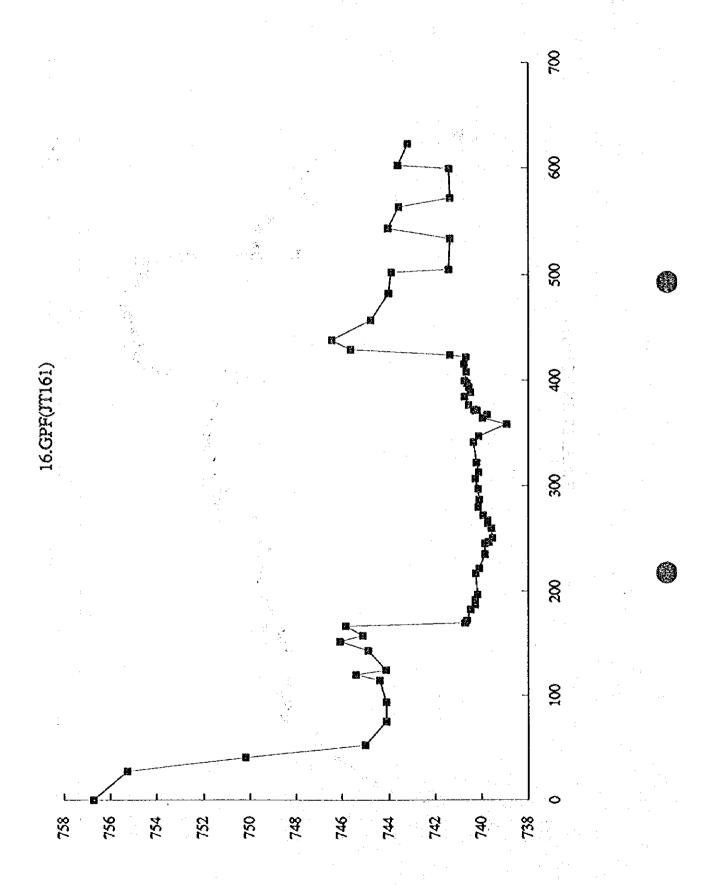




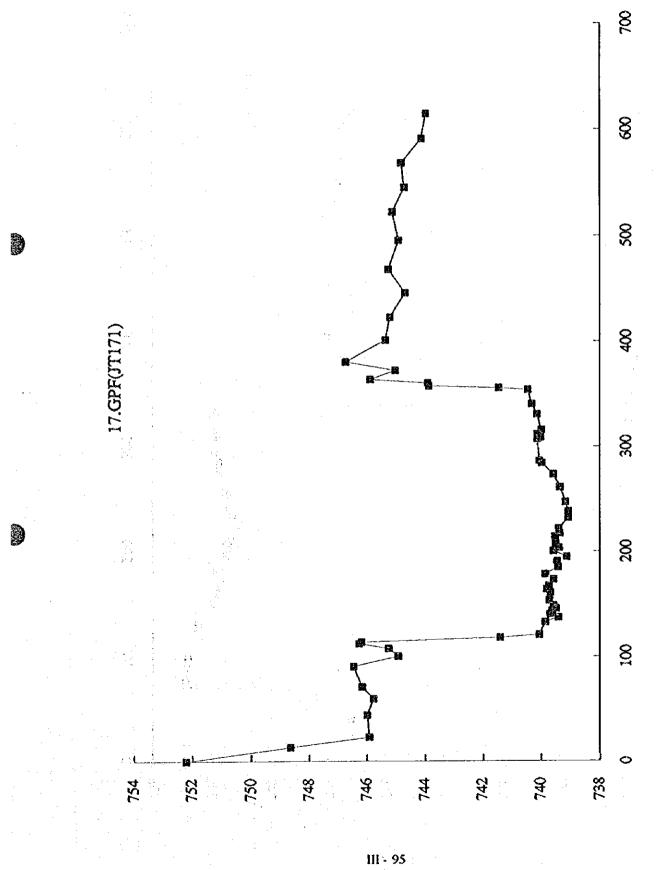


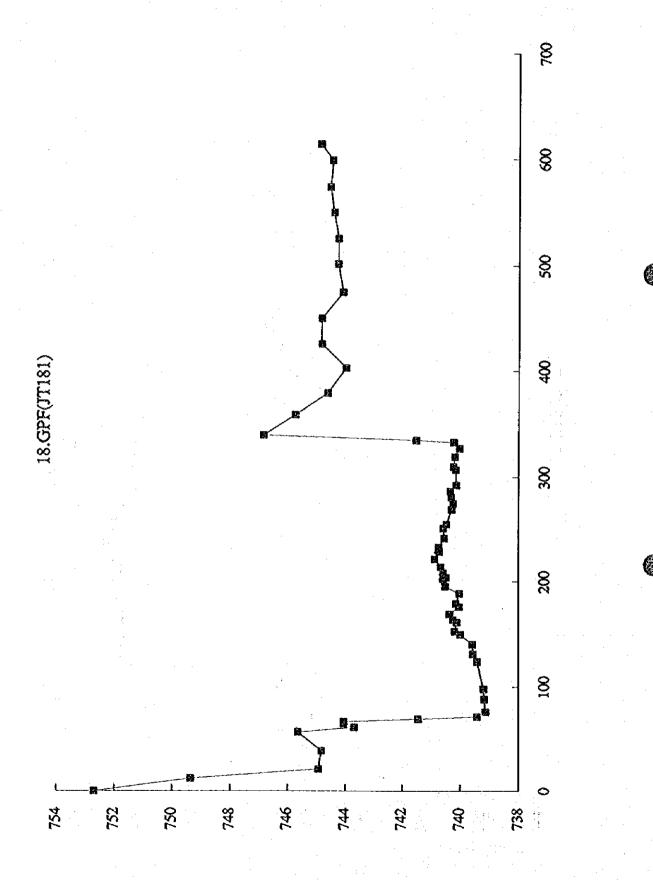
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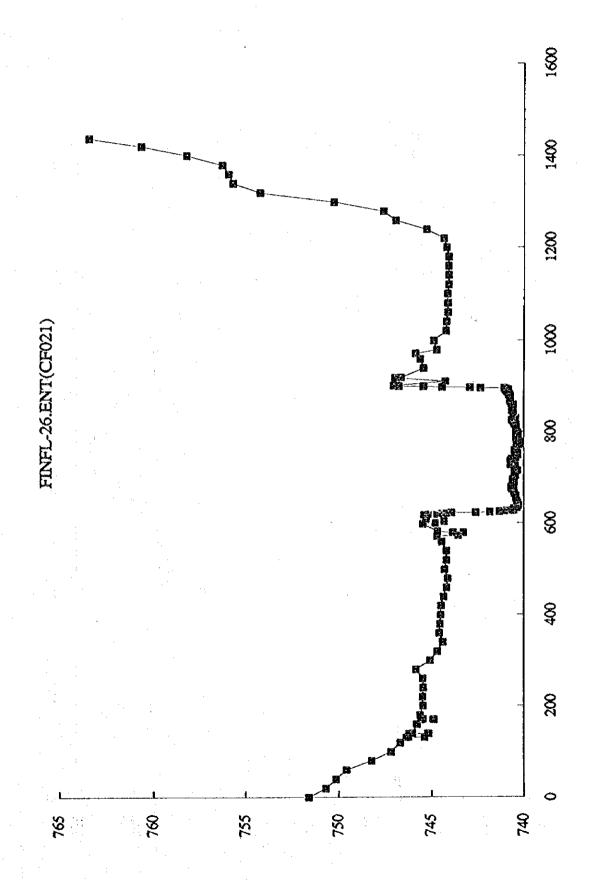


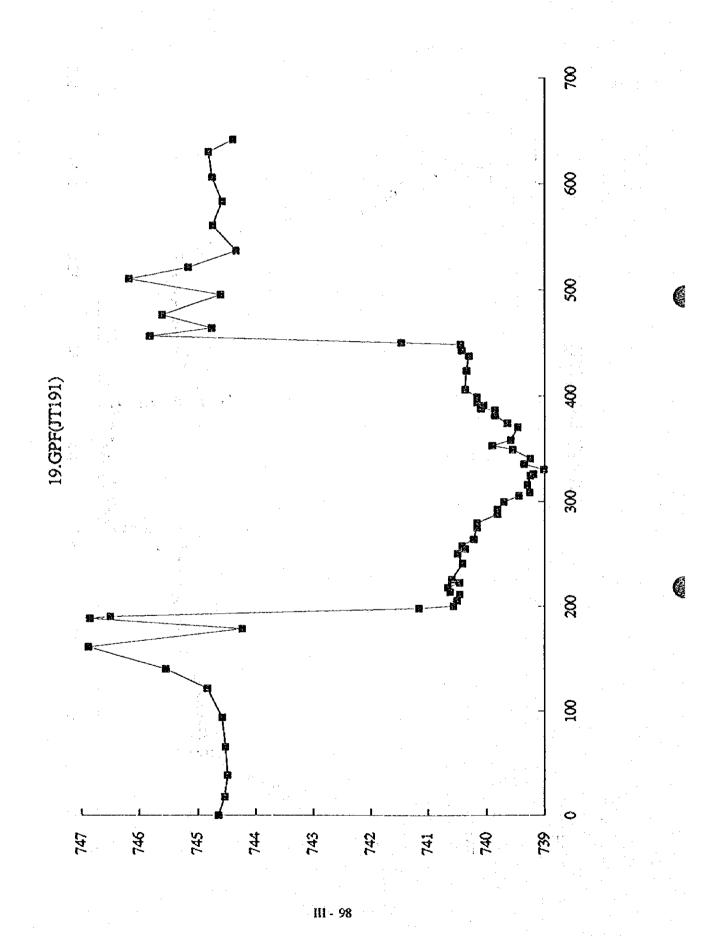


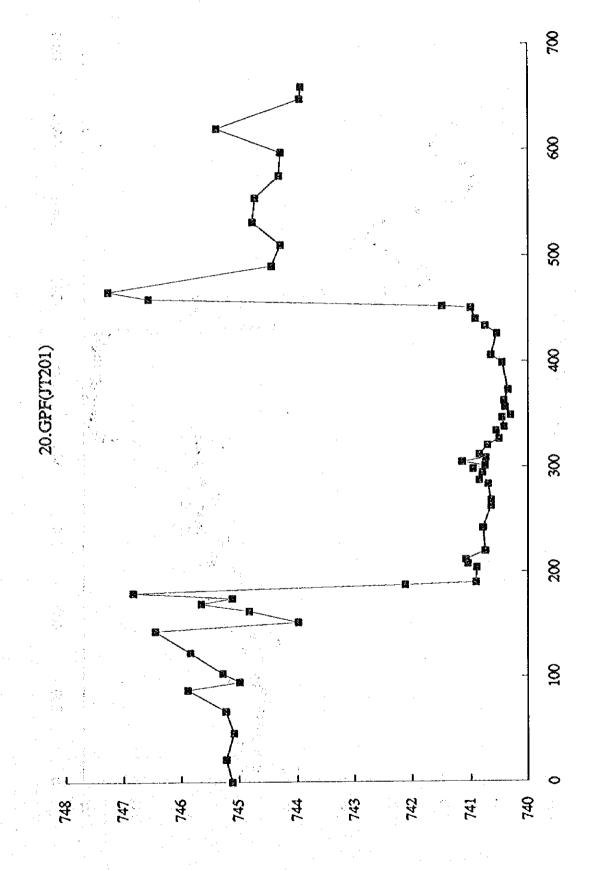
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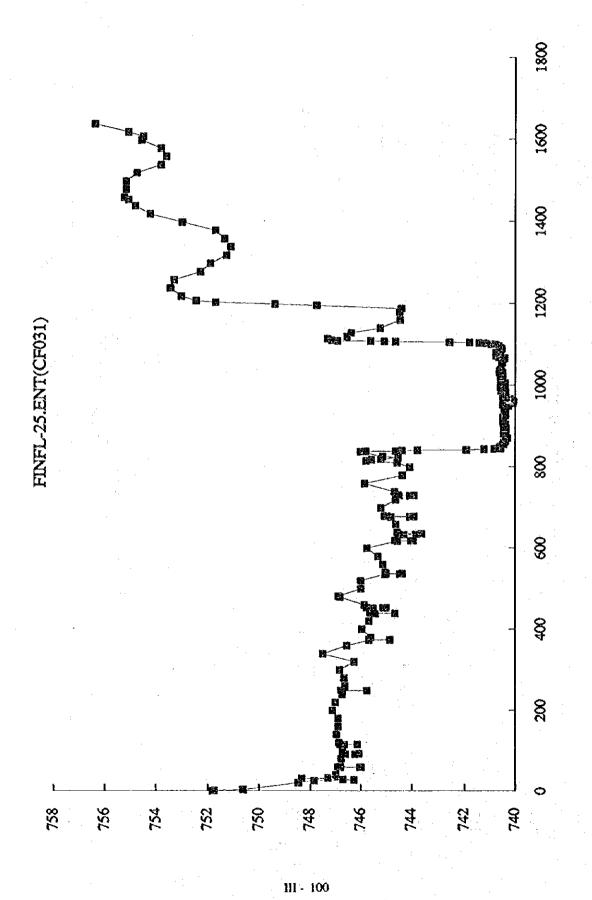


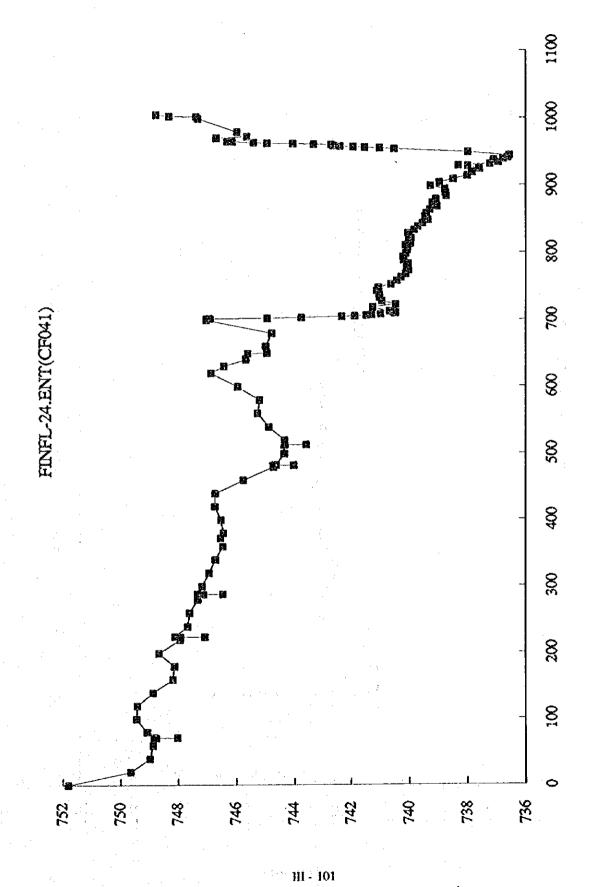


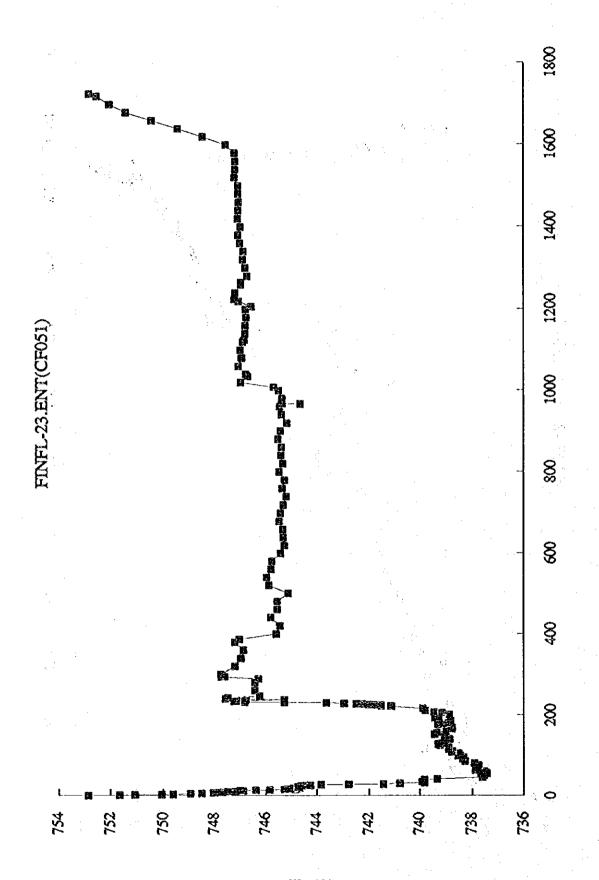




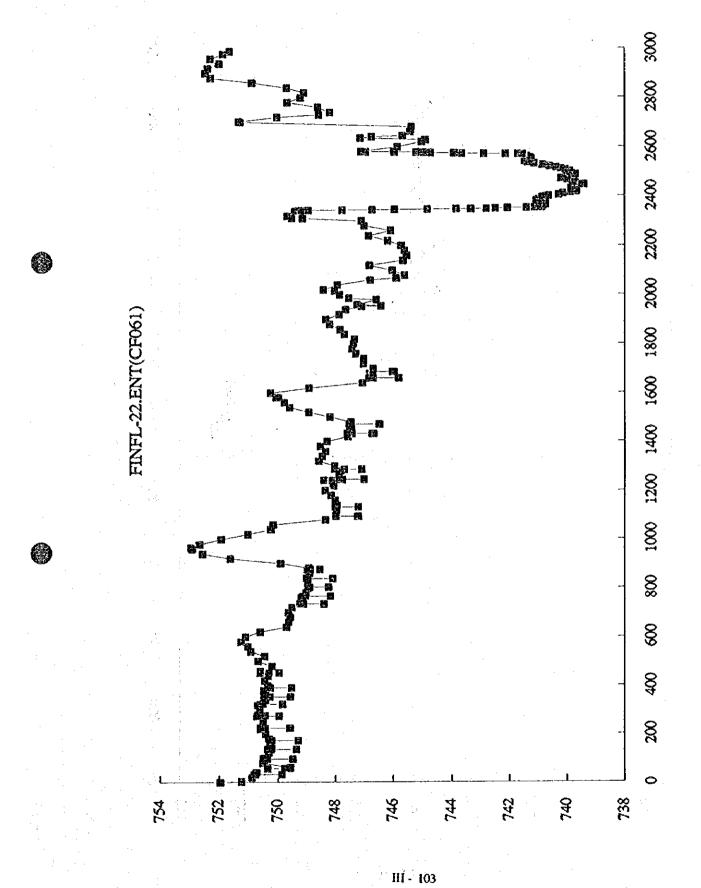
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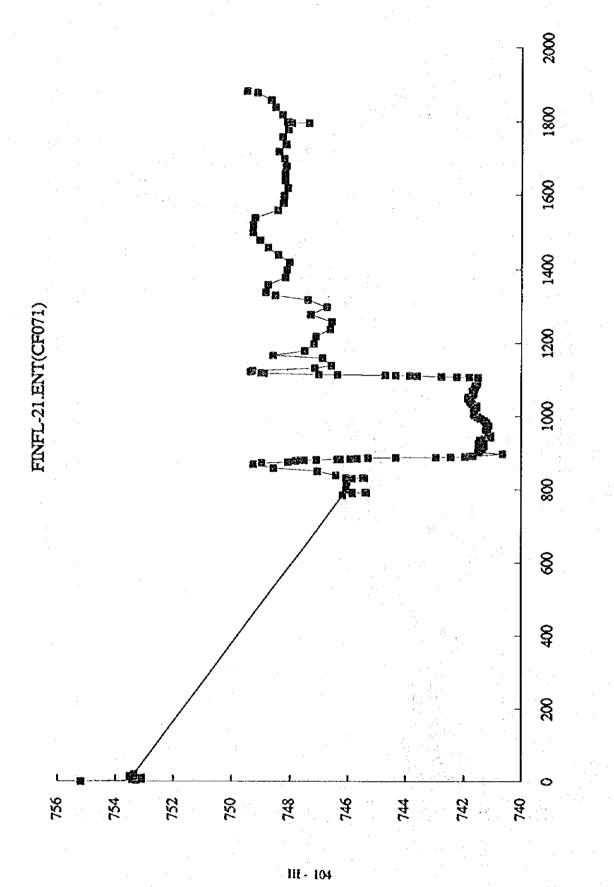


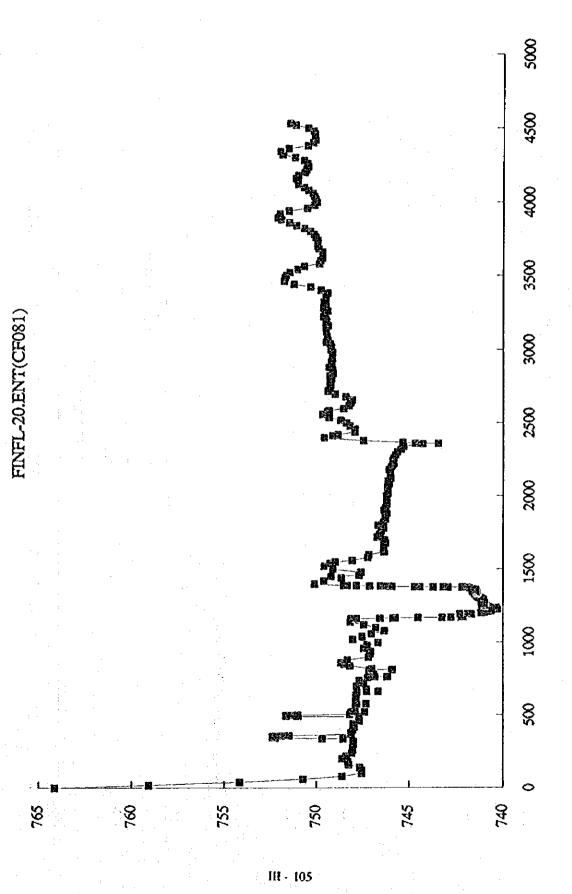


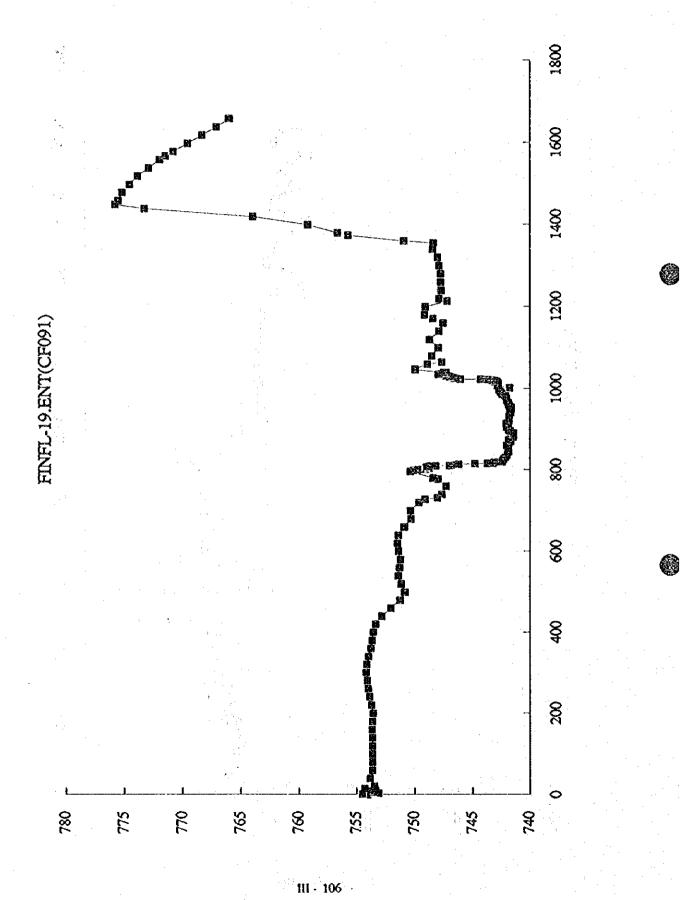


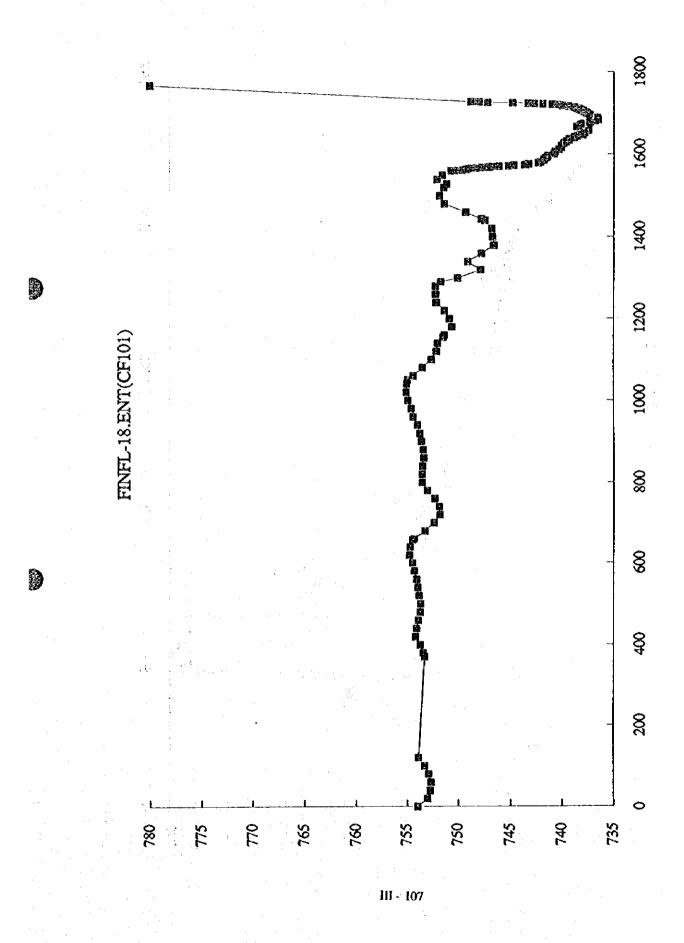
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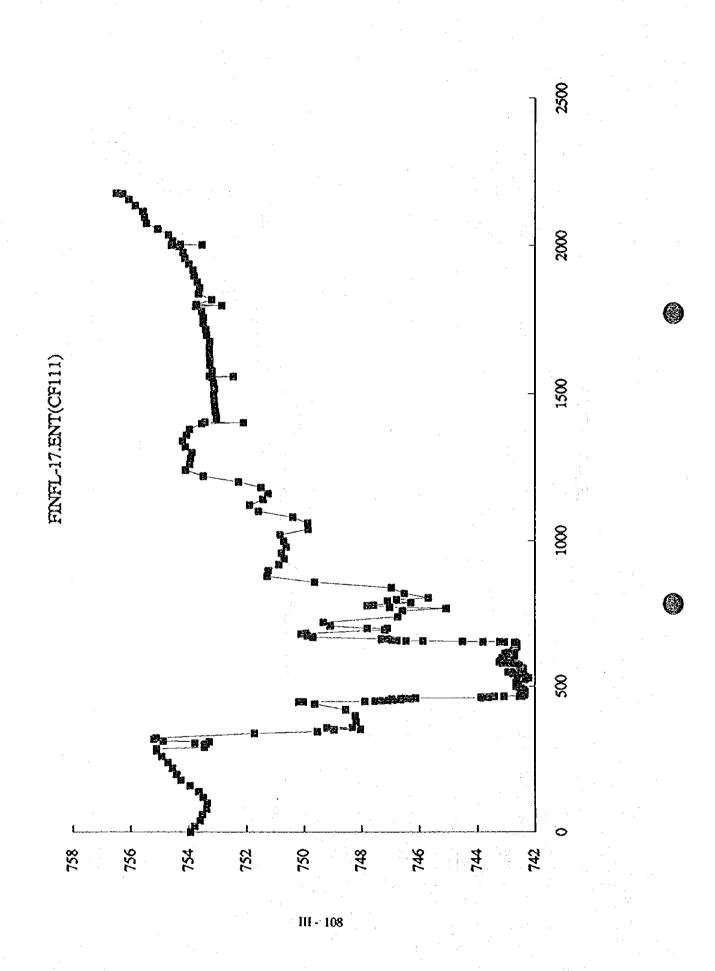


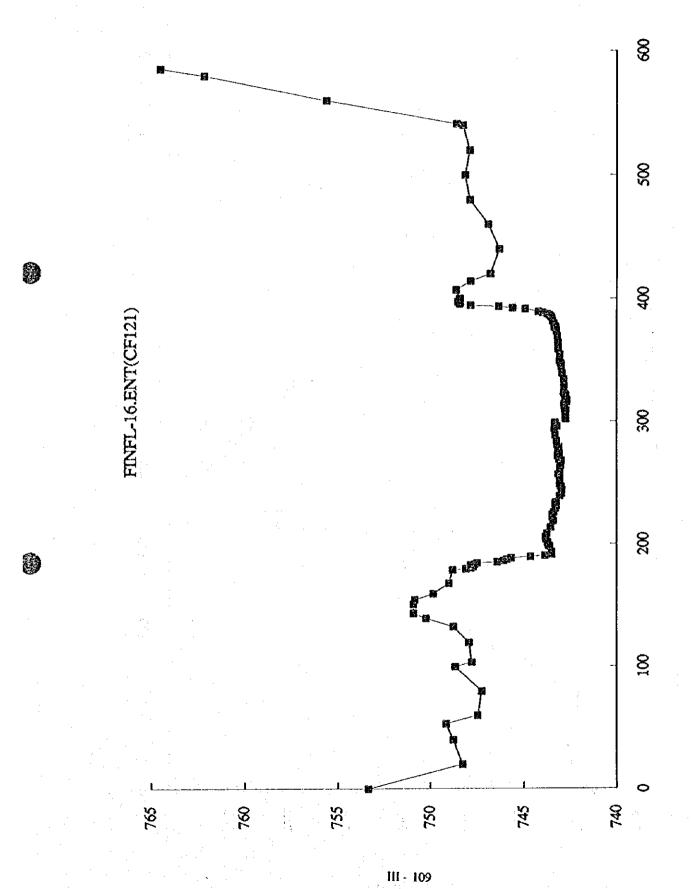


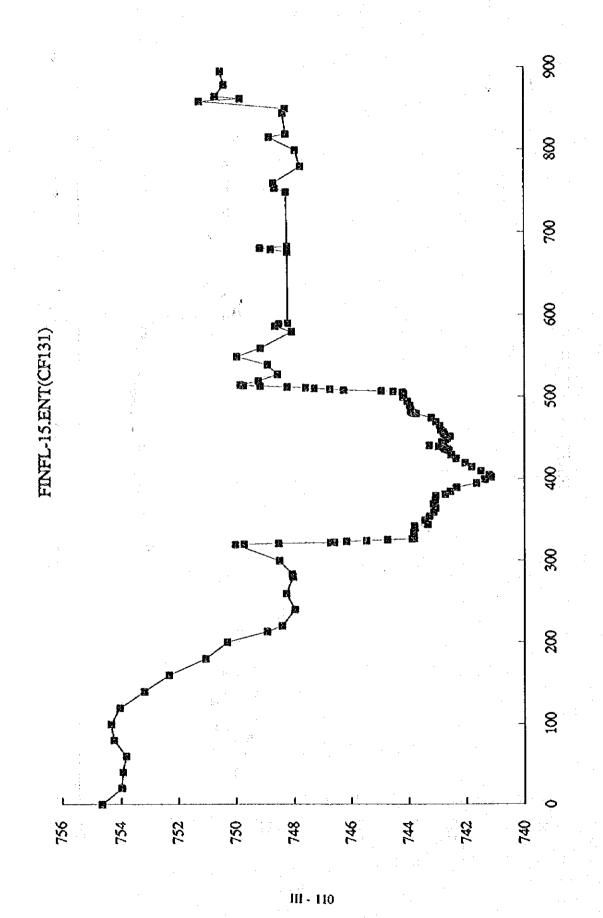


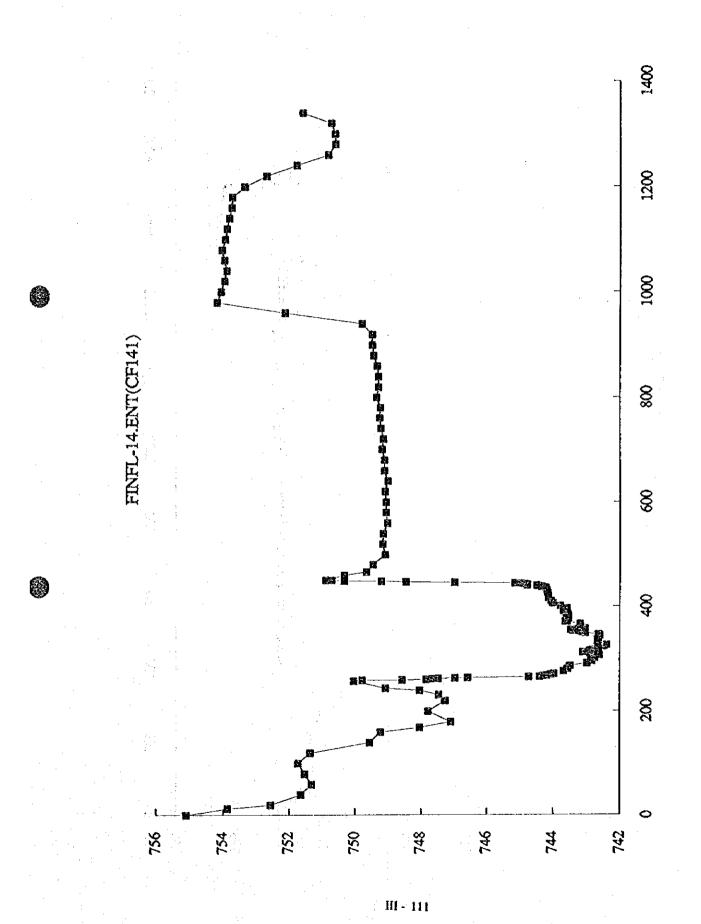


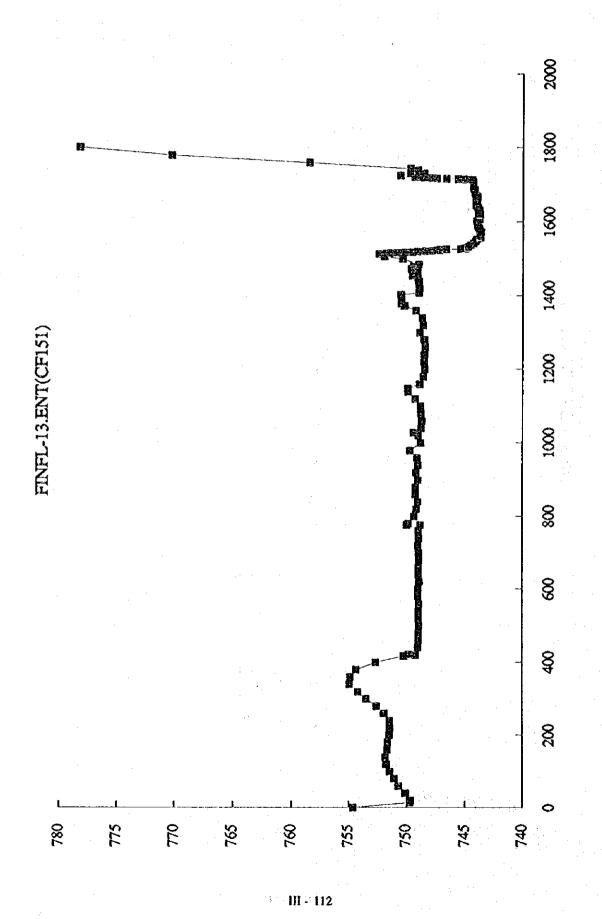


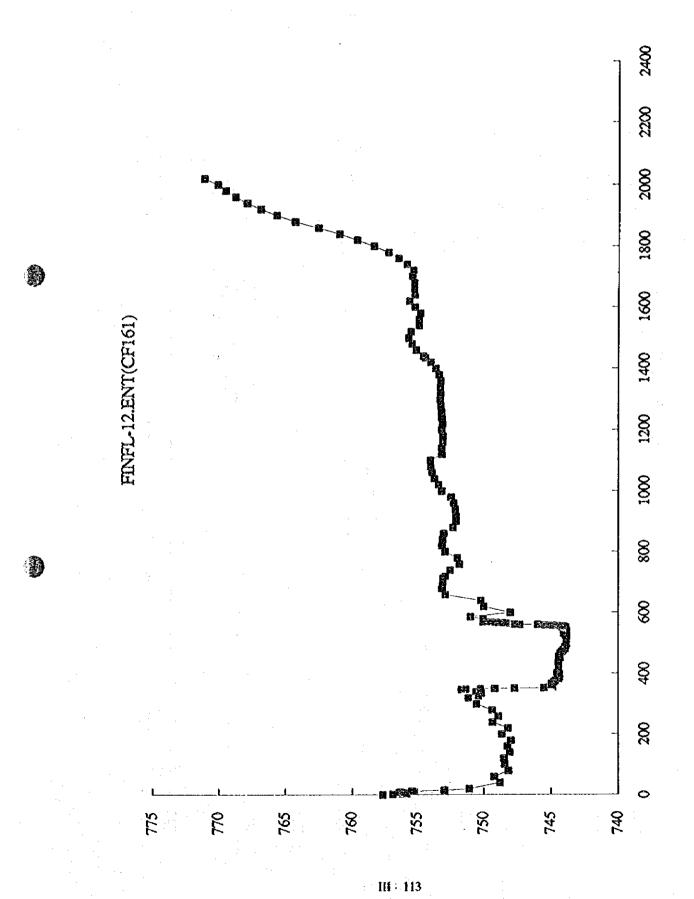


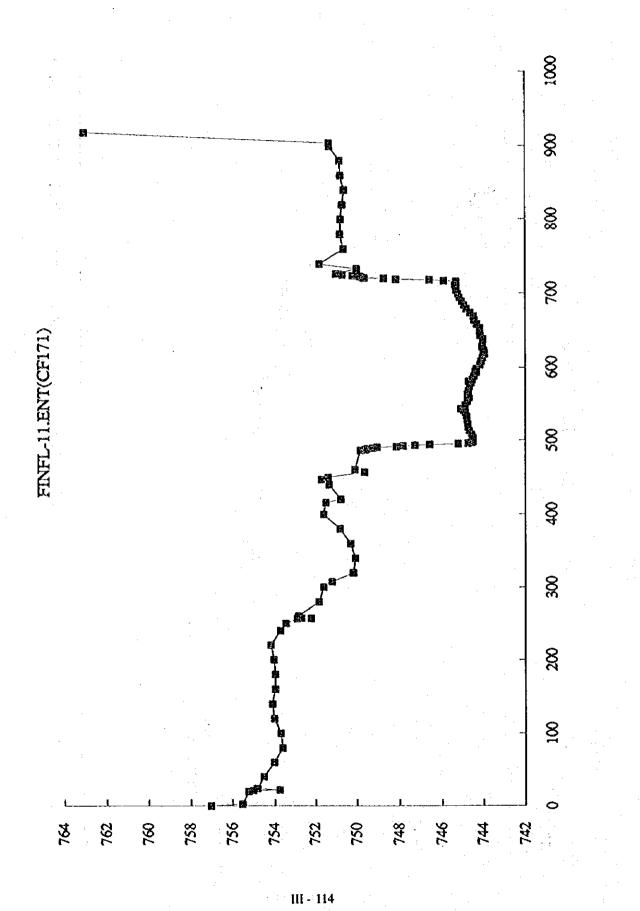


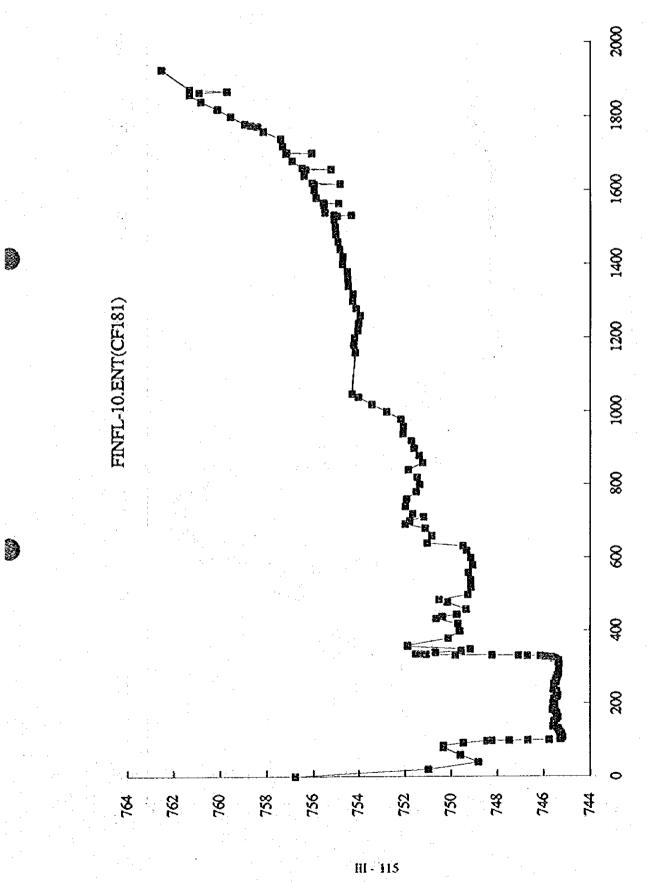


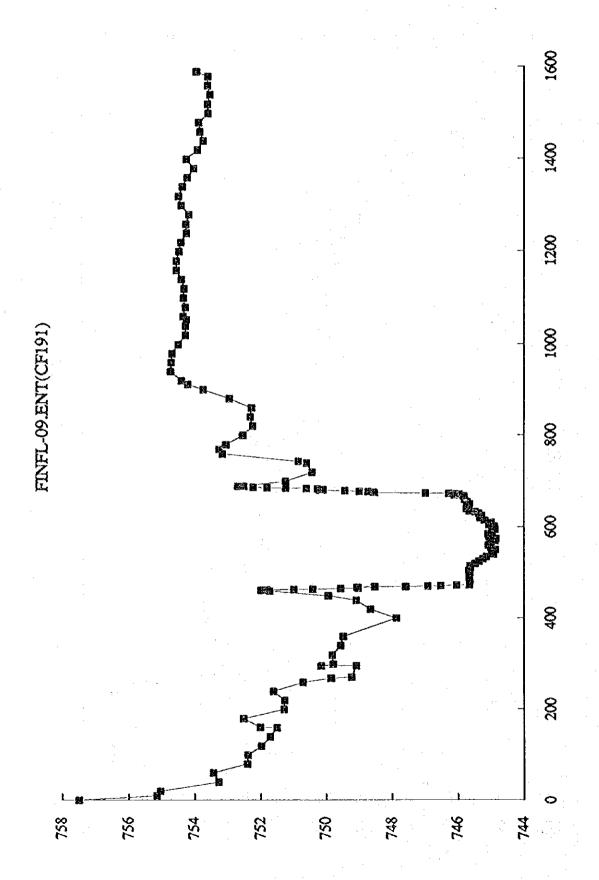




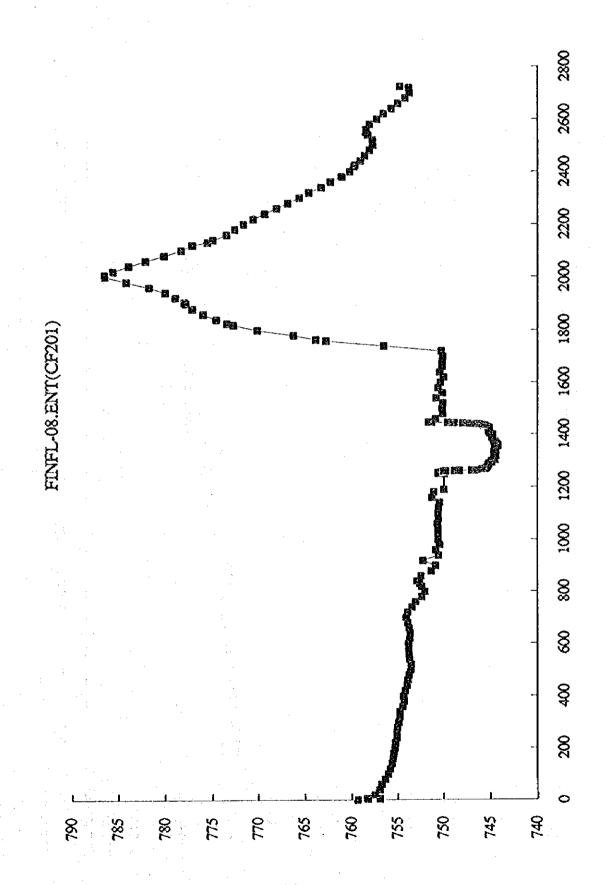




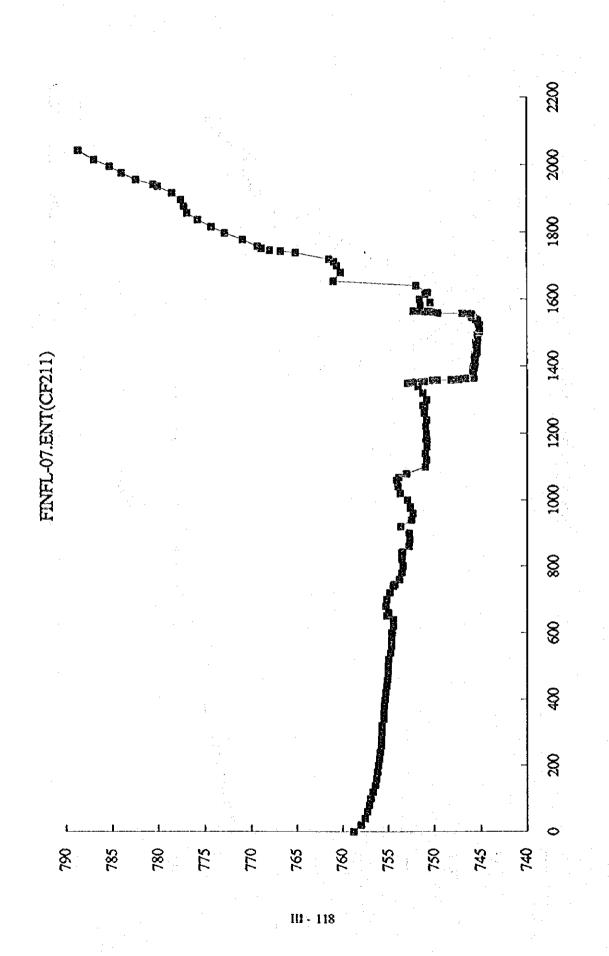


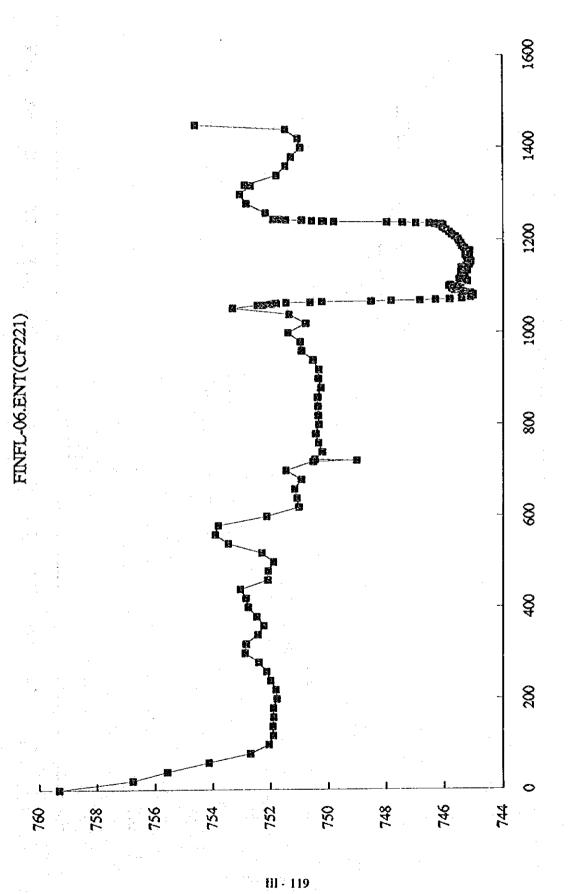


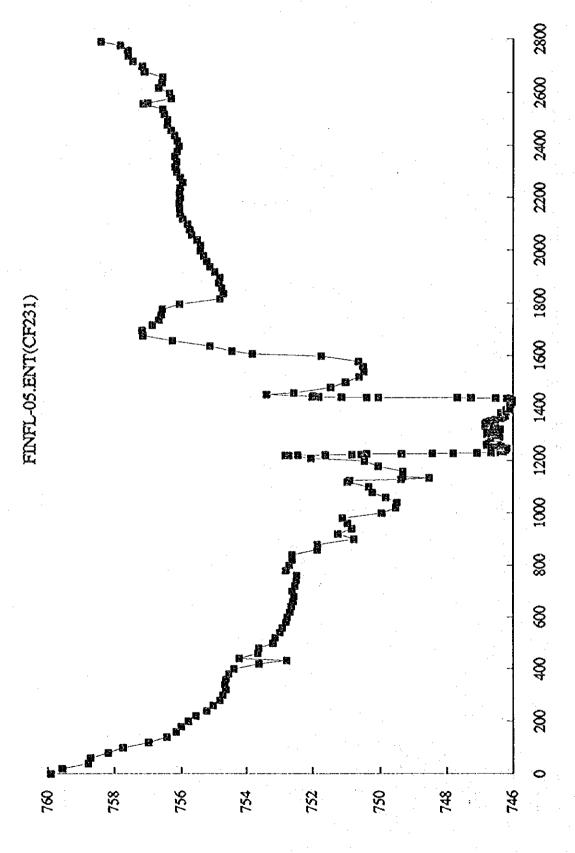
III - 116



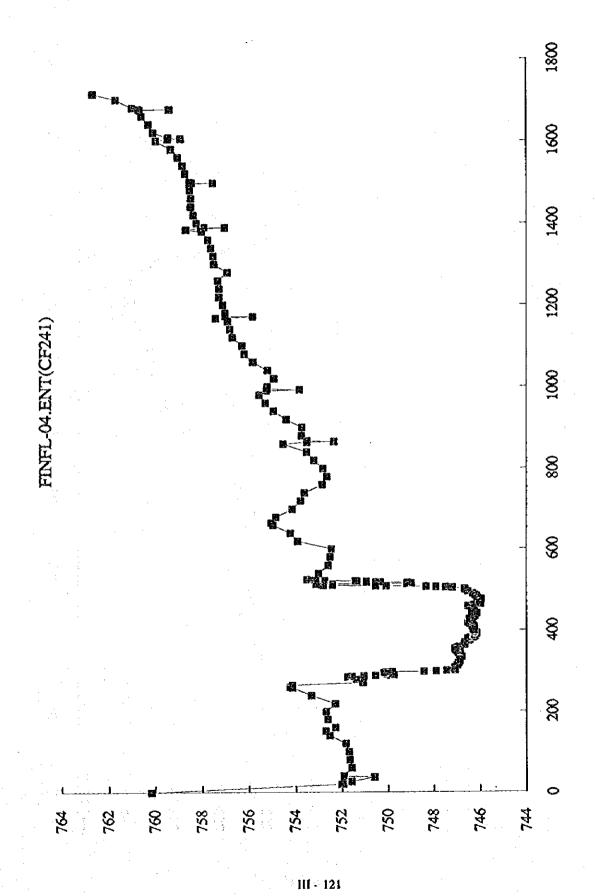
1117-1117

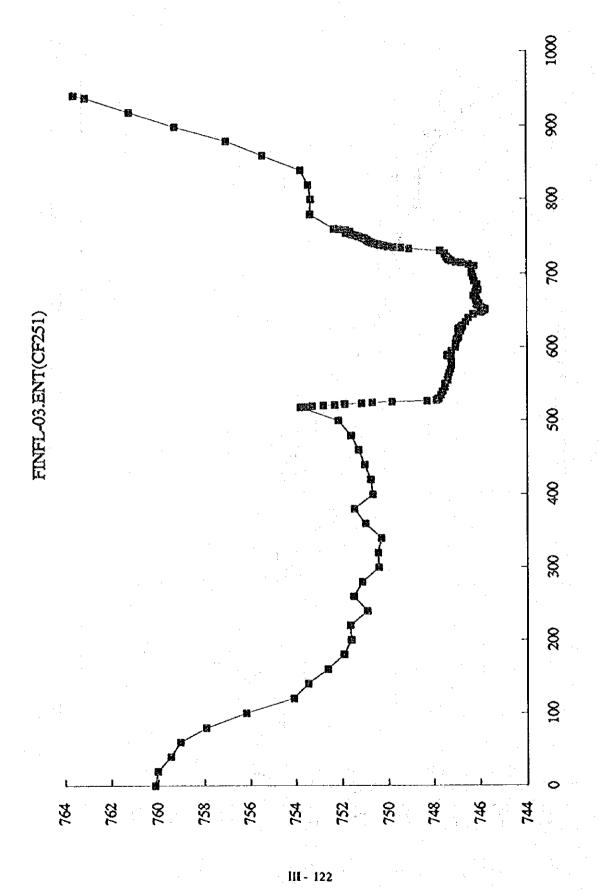


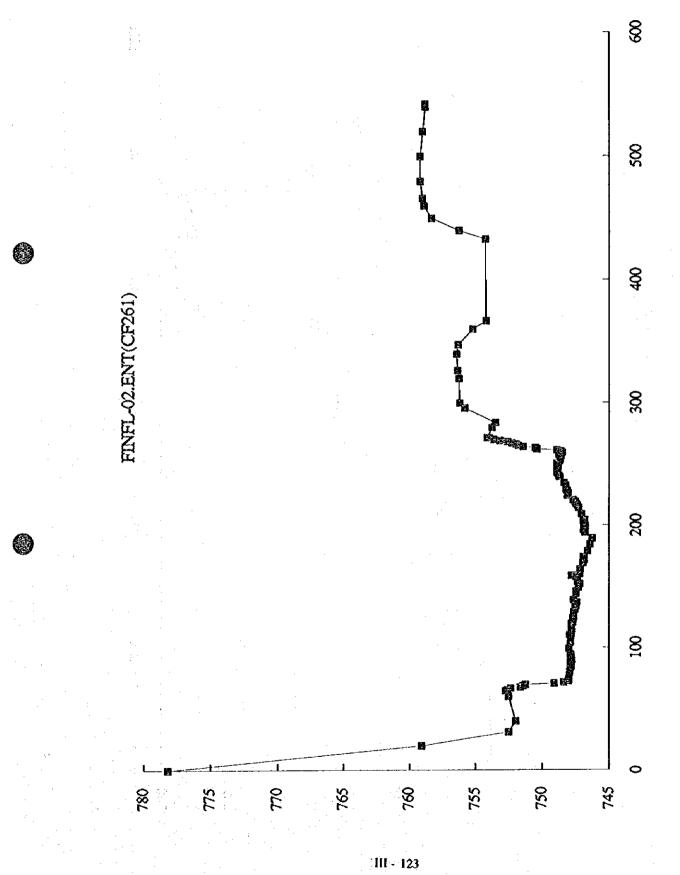


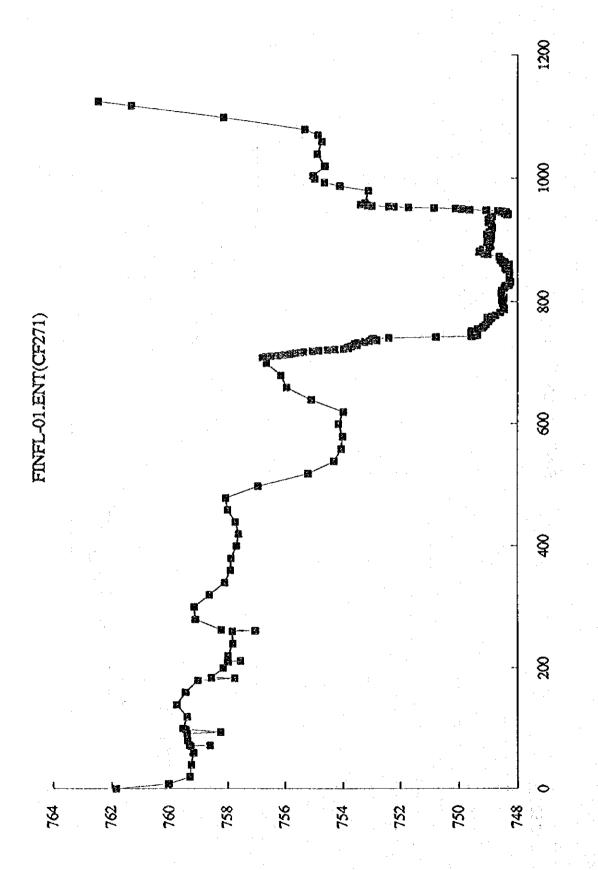


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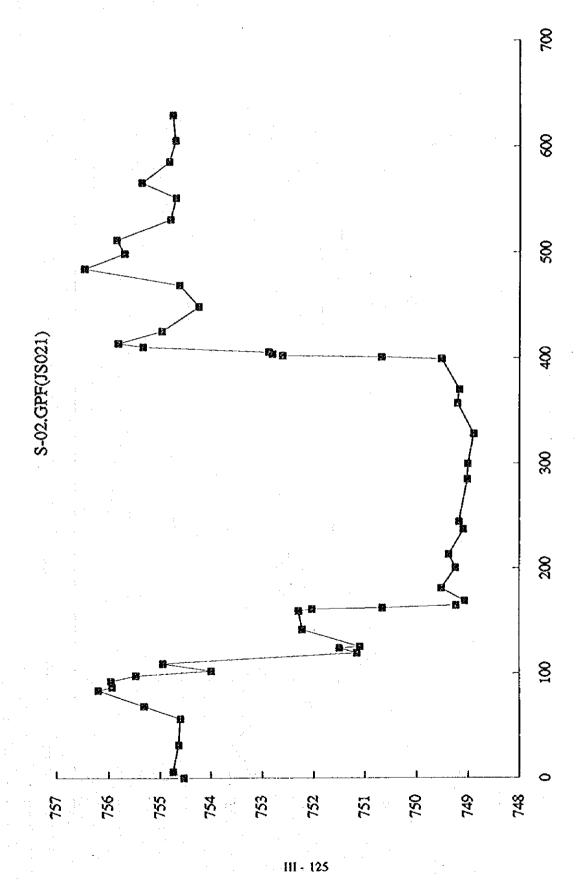


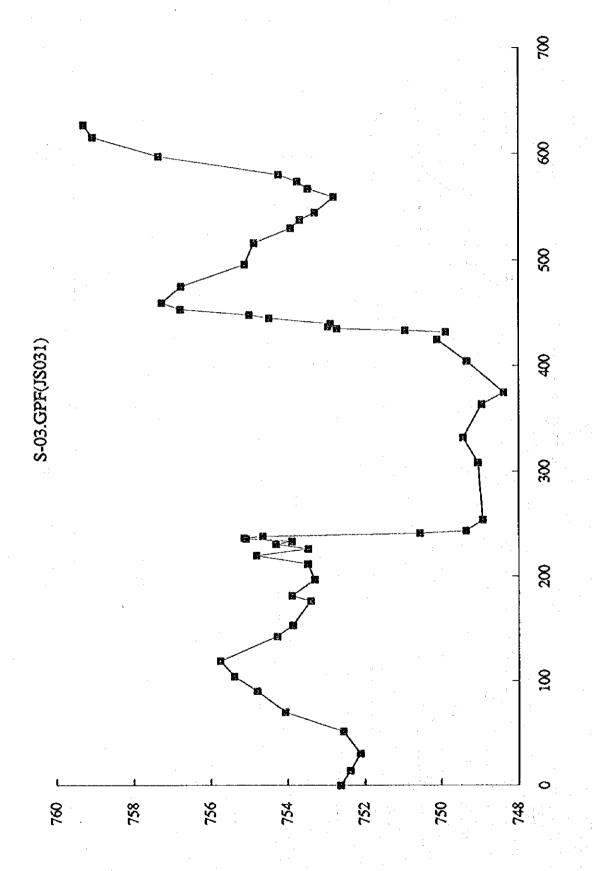




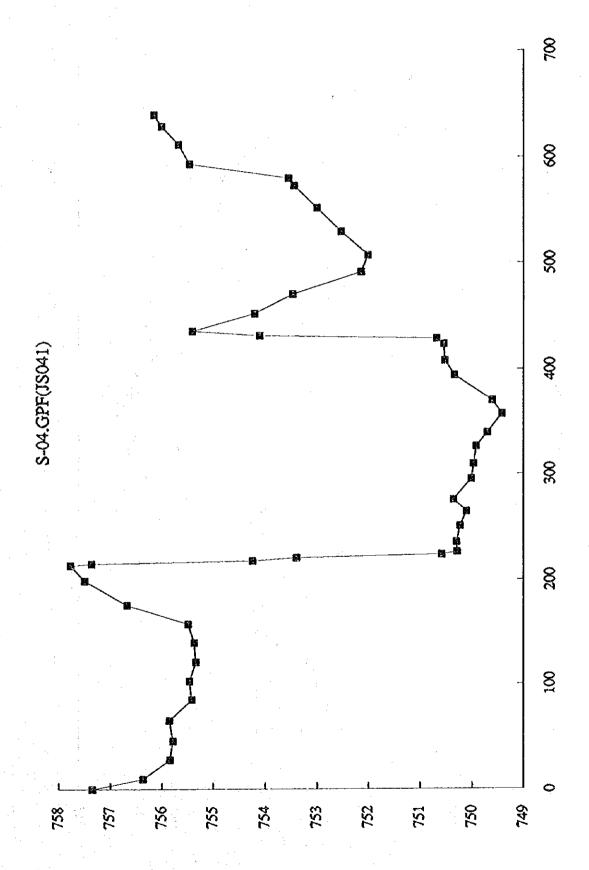


III - 124

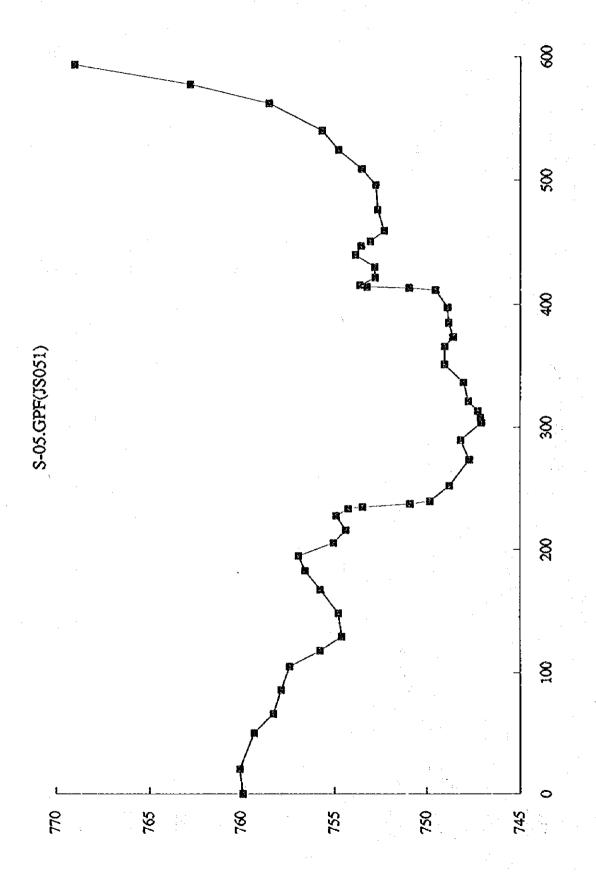


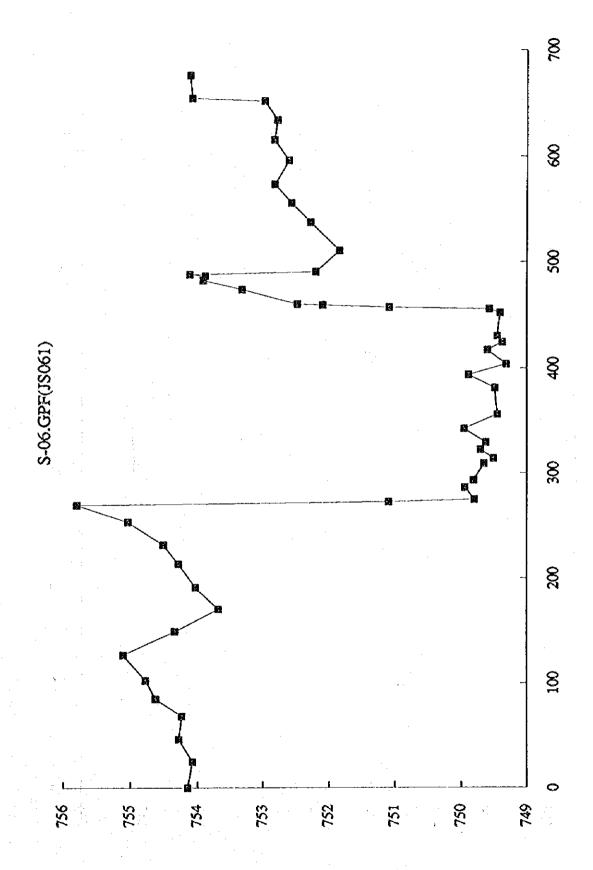


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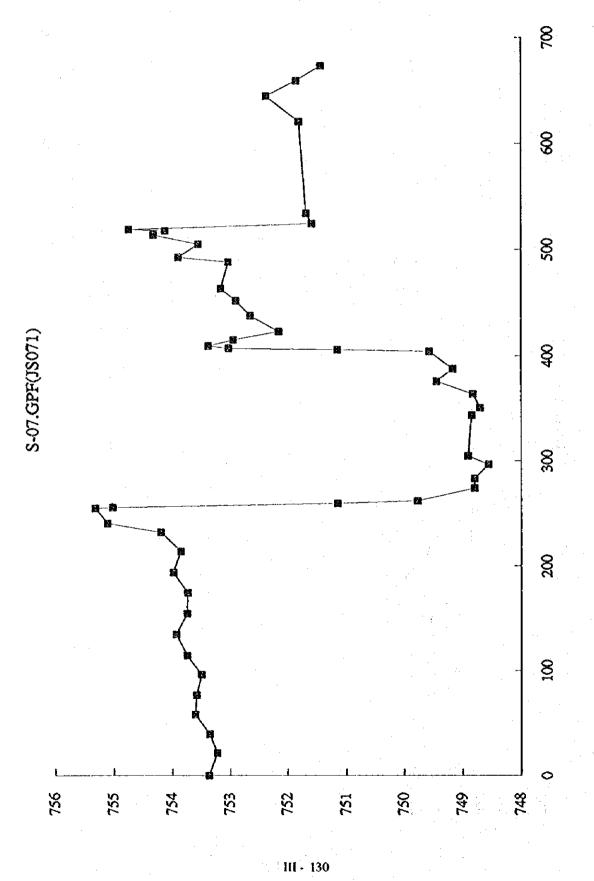


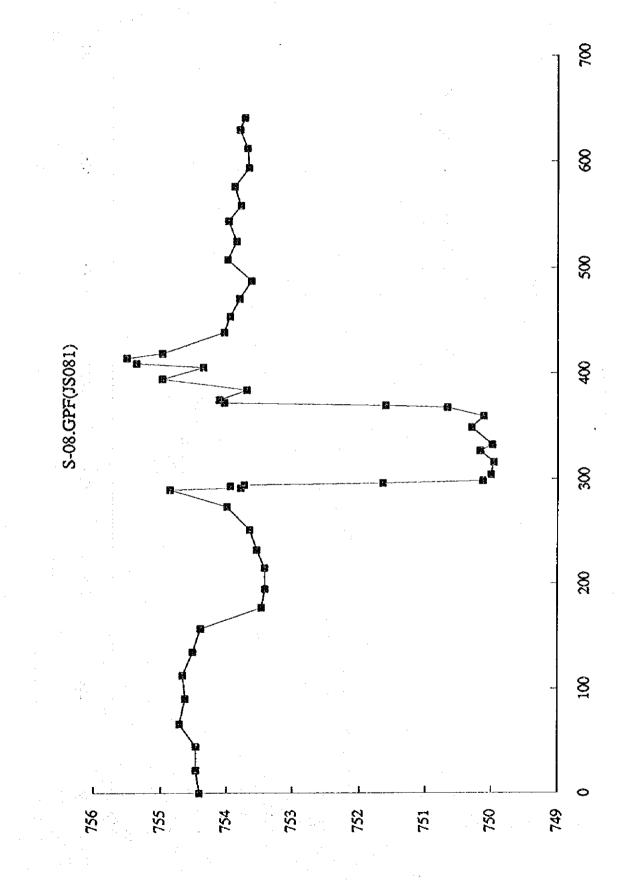
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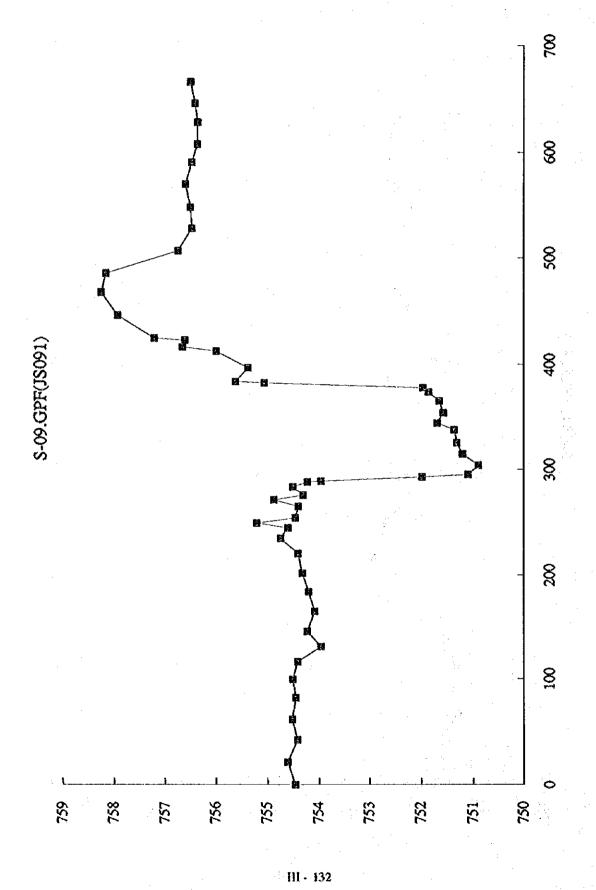


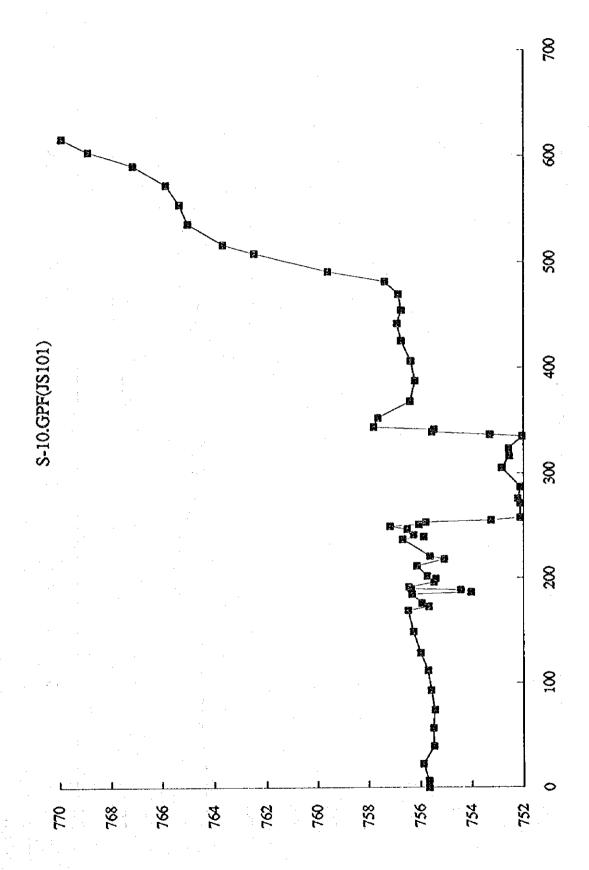


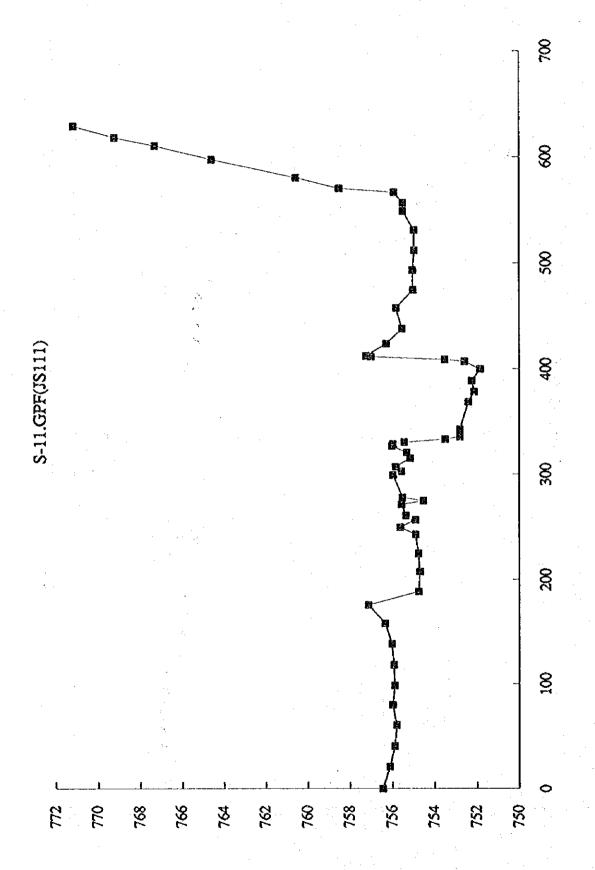
III - 129

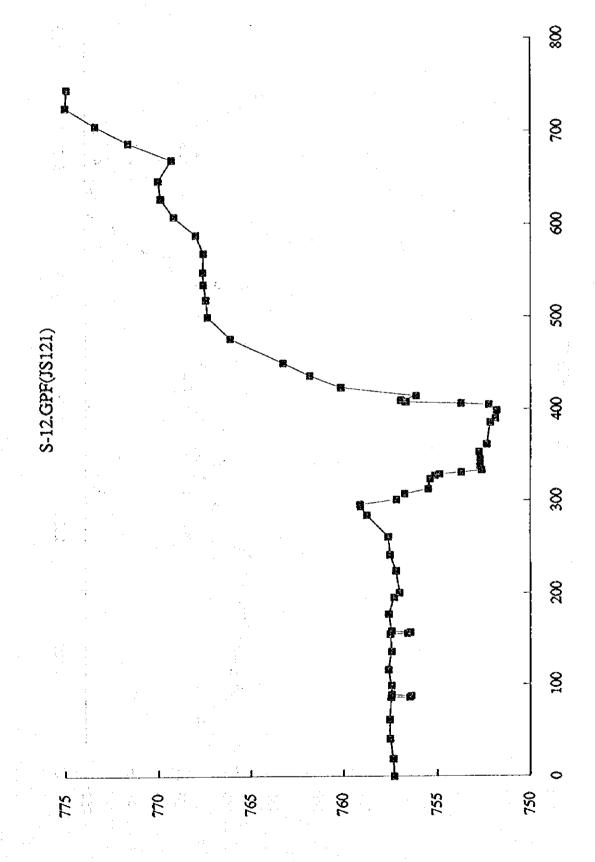


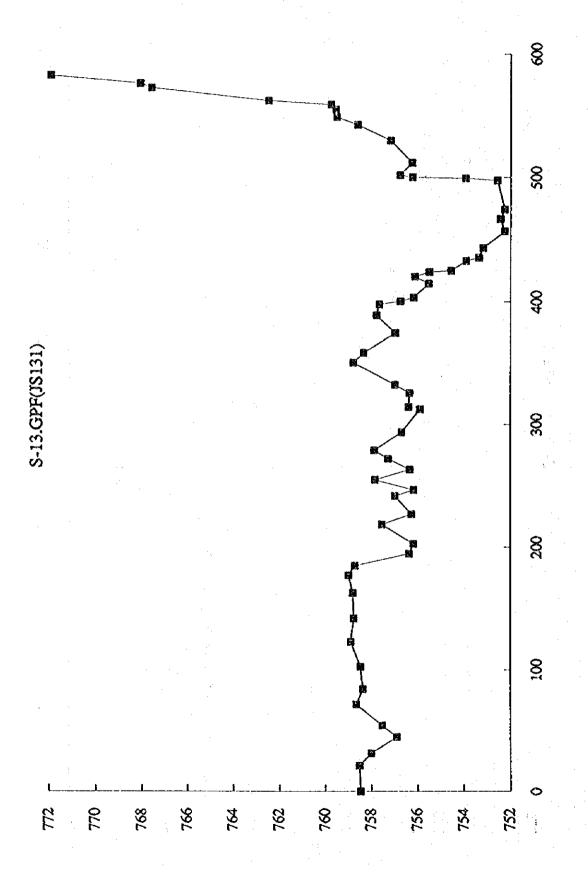


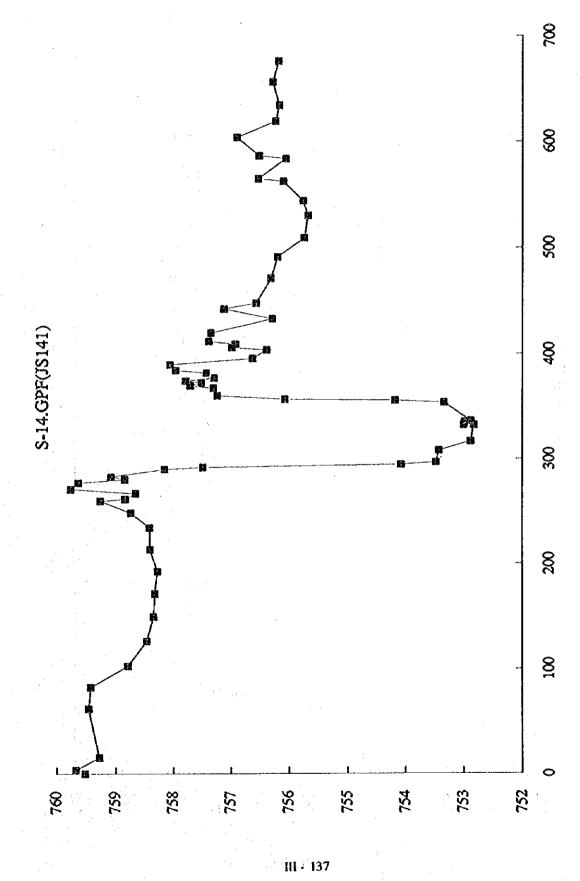


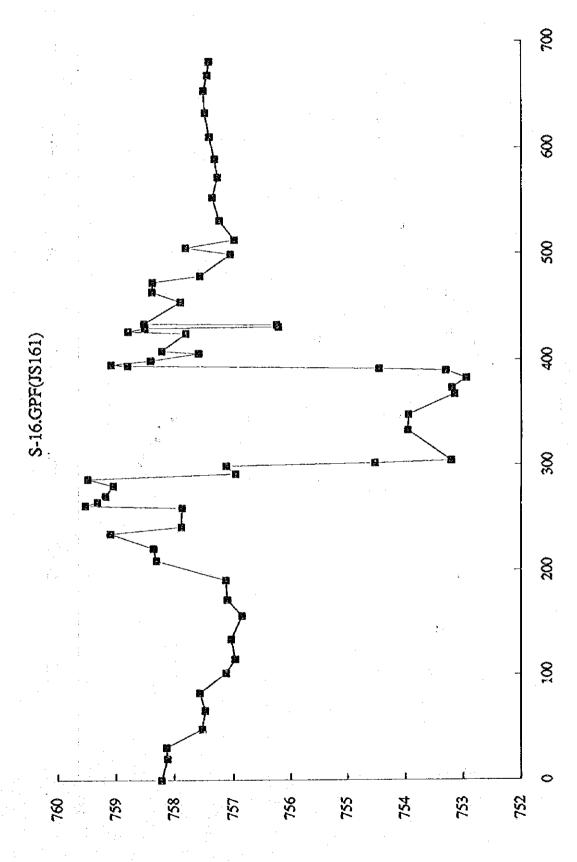






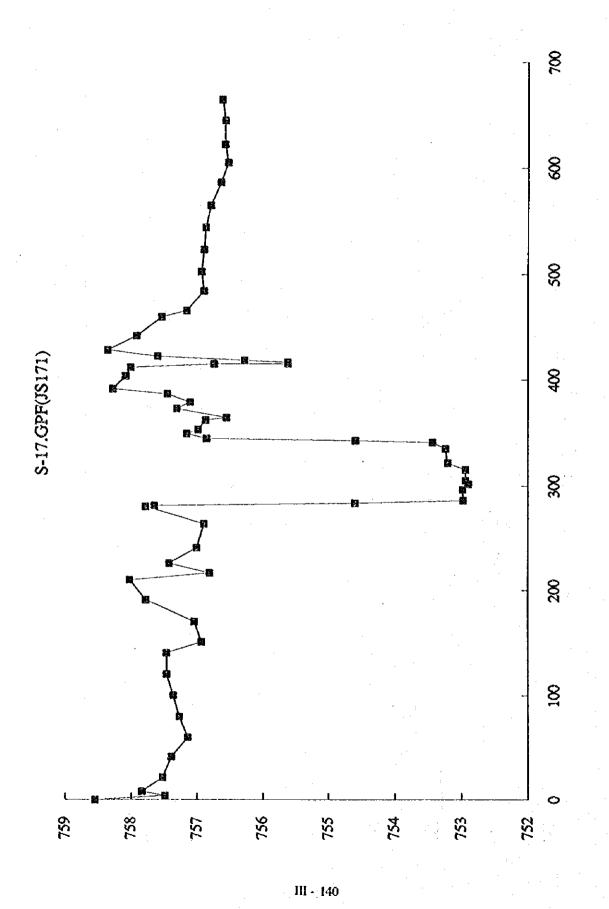


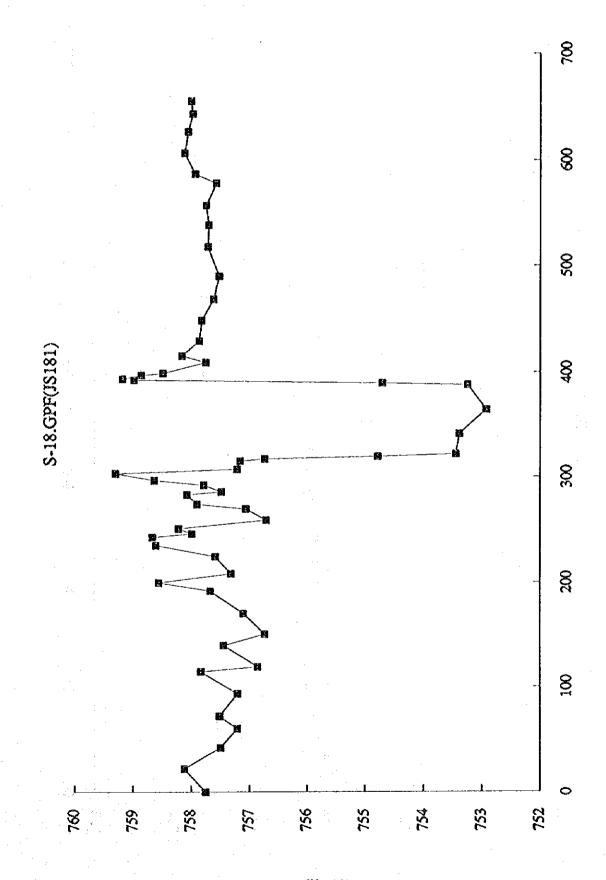




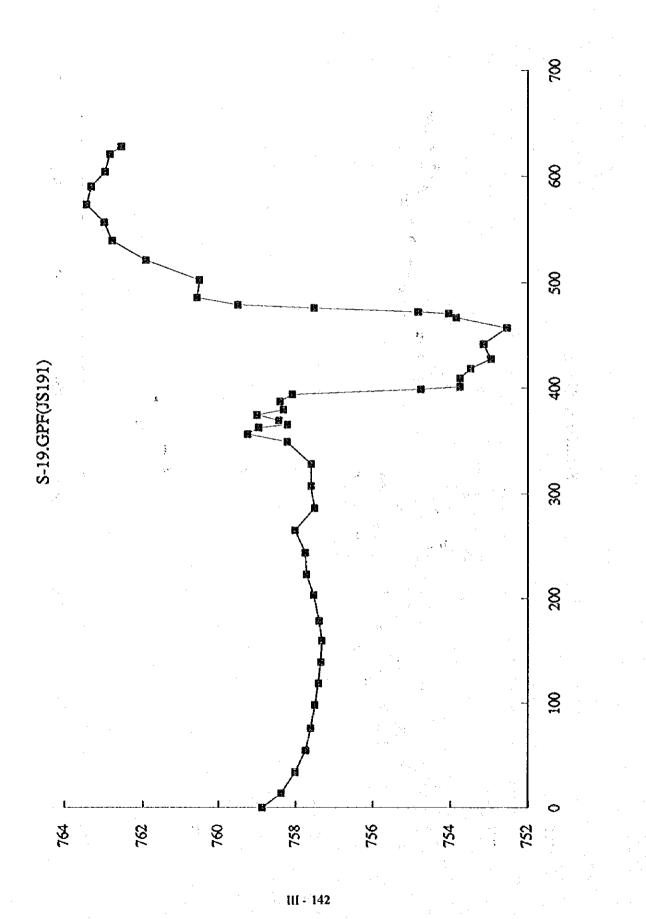
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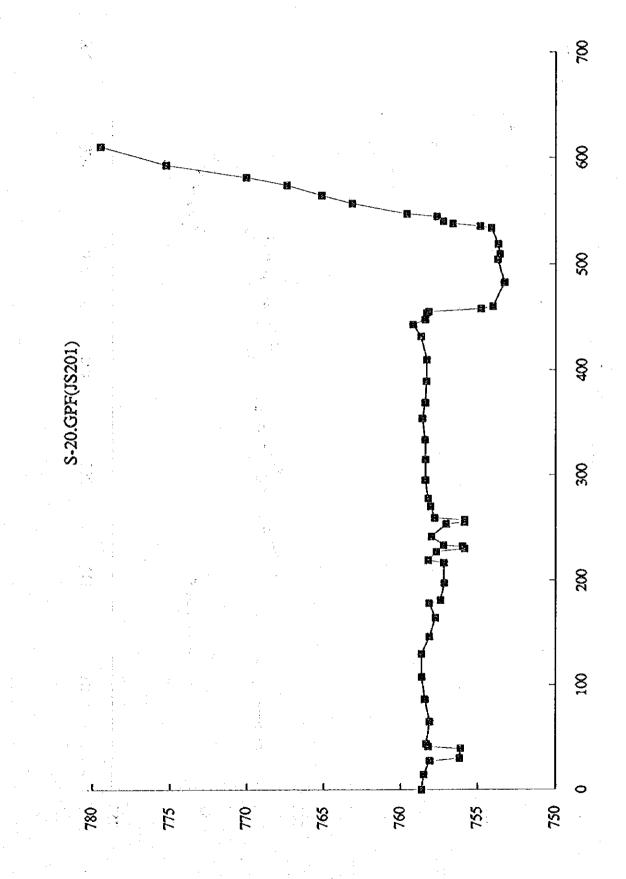
111 - 139



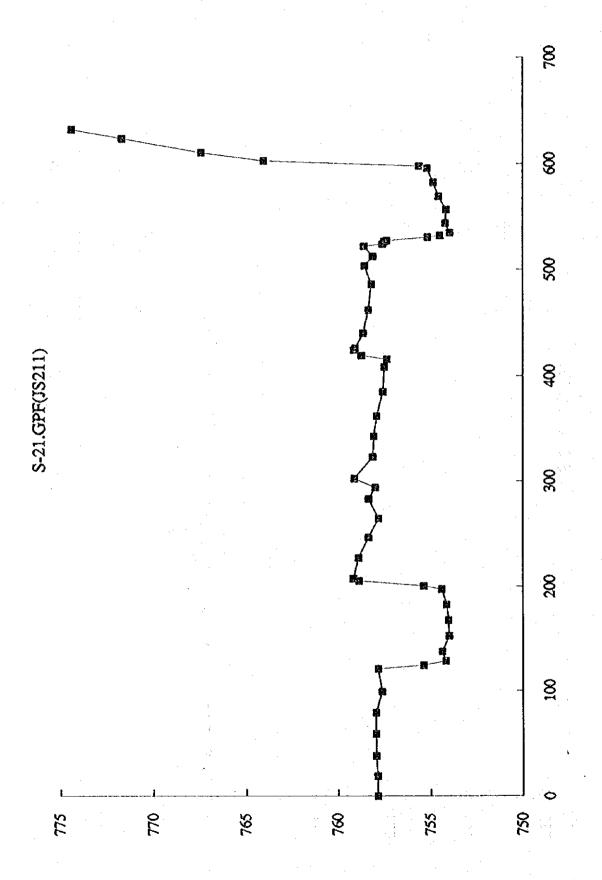


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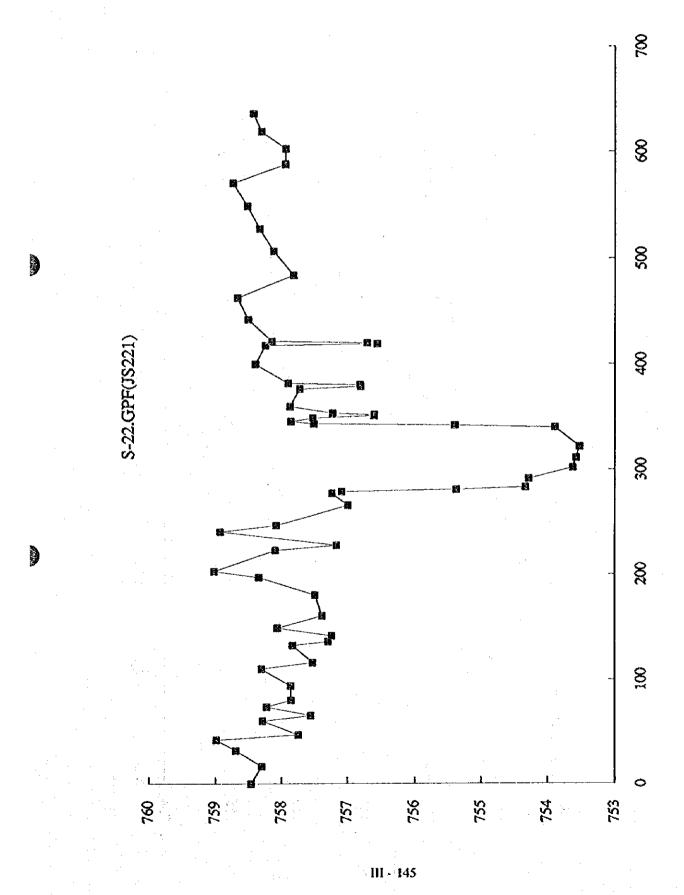


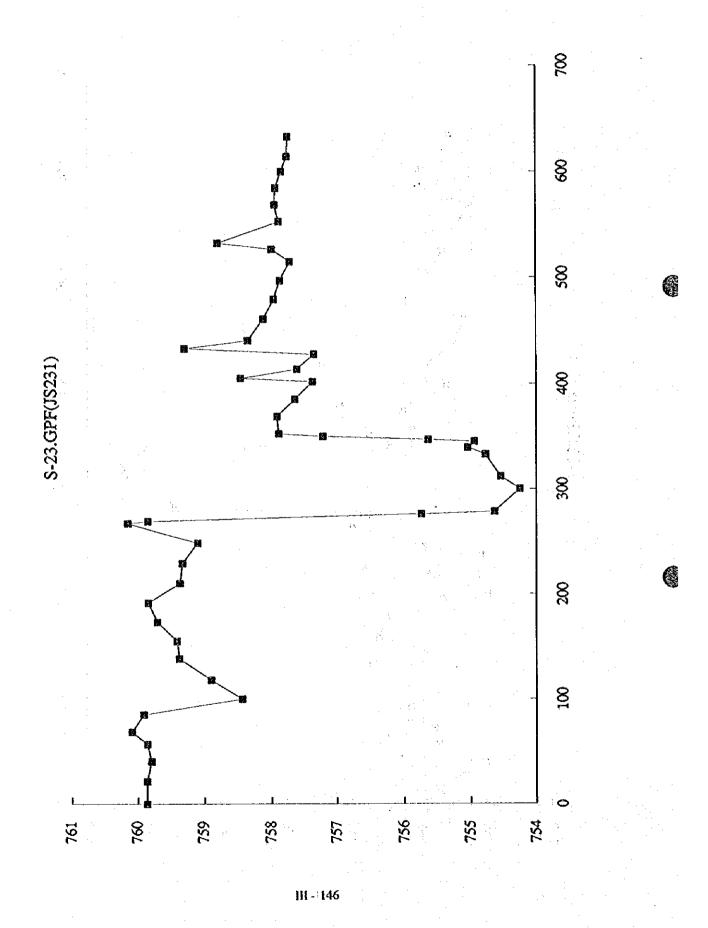


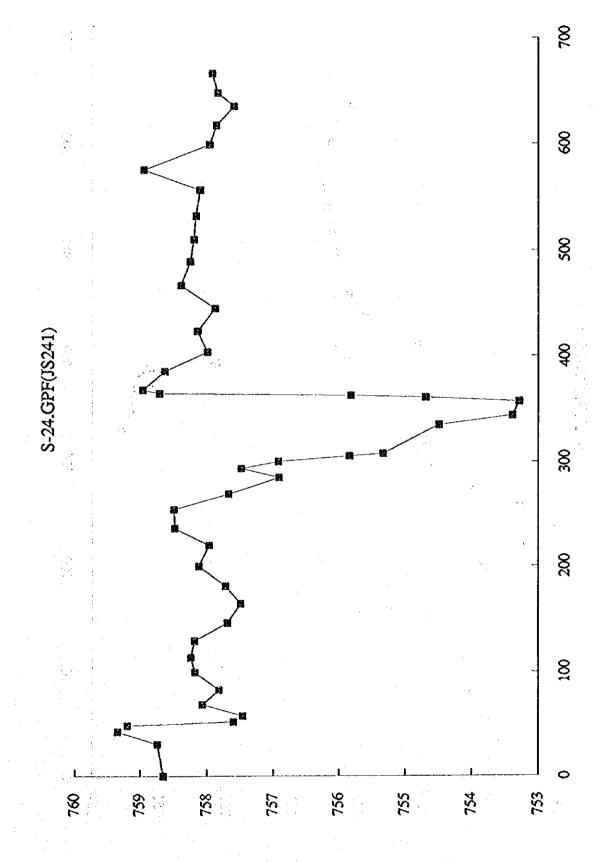
III - 143



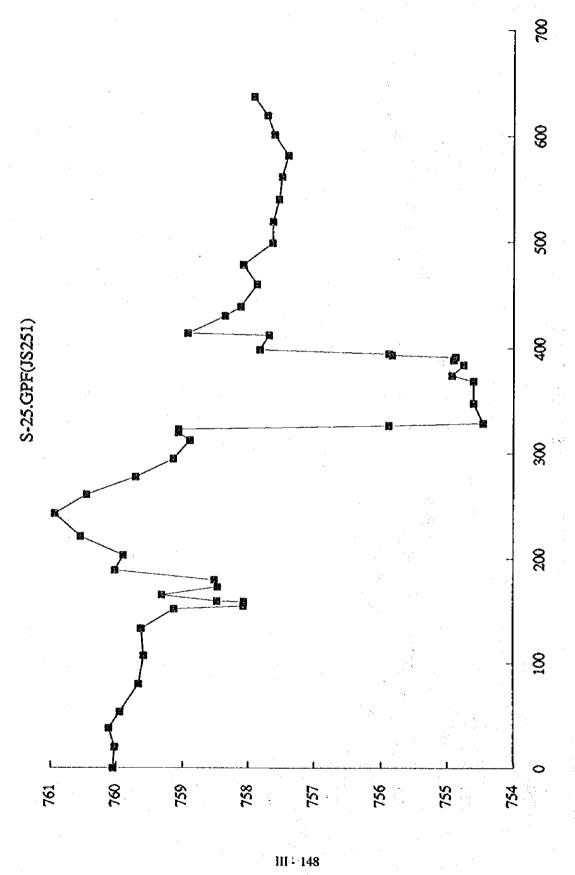
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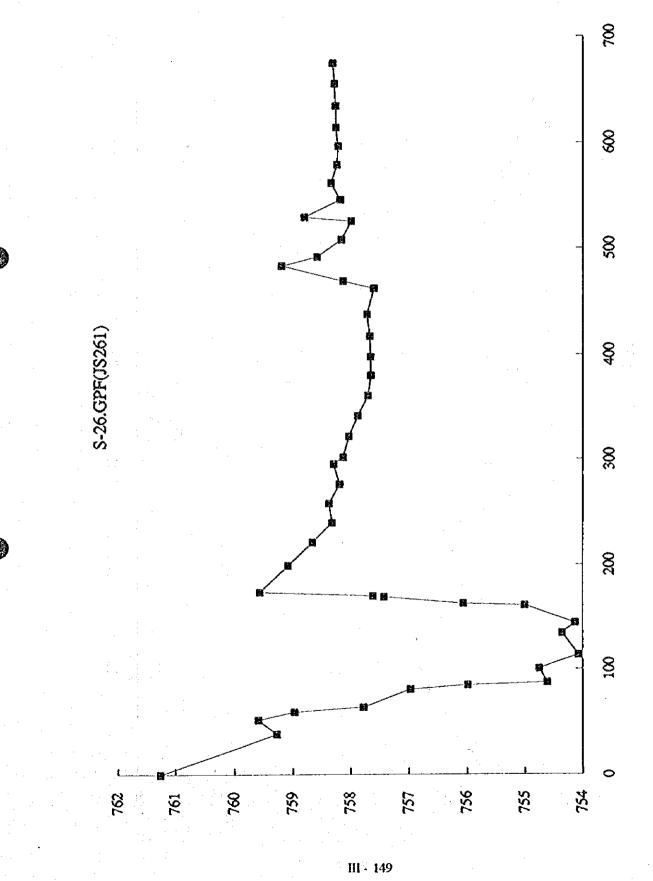


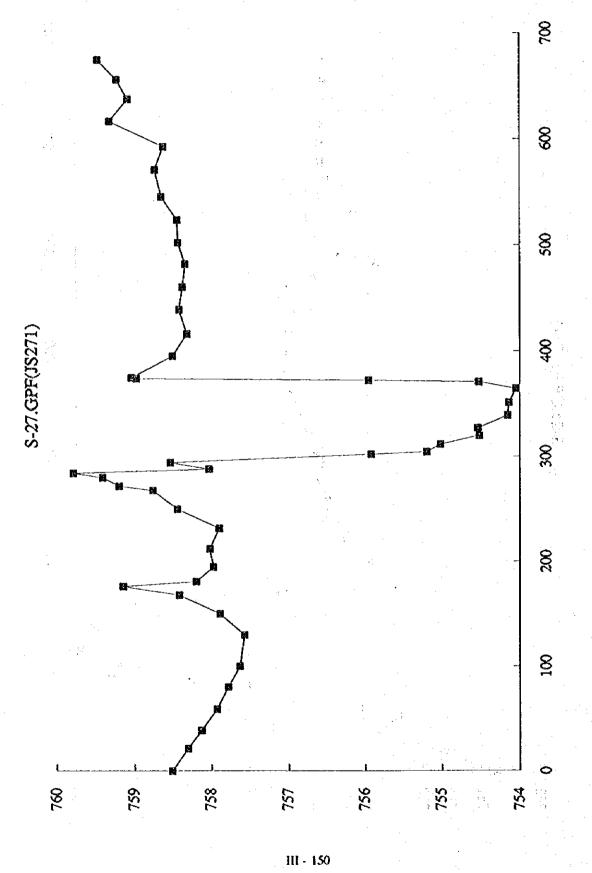


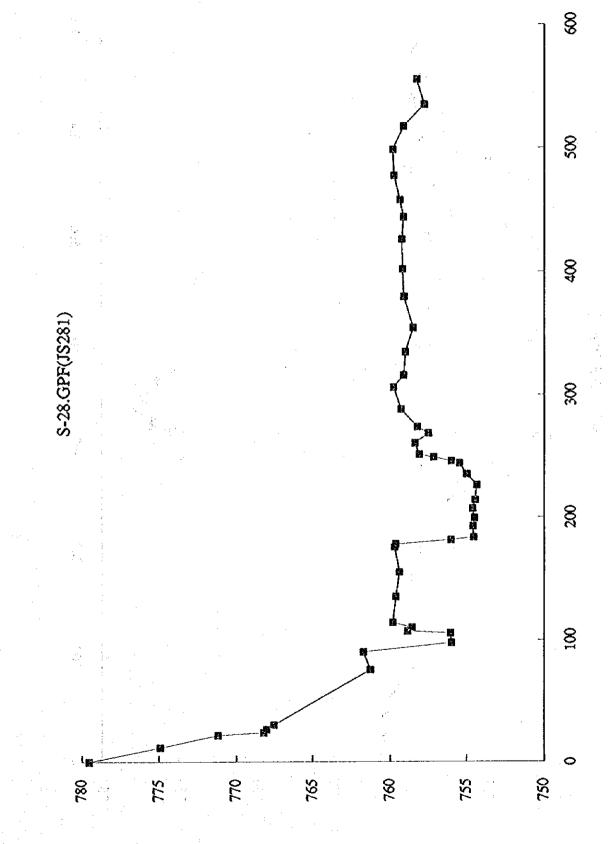


III - 147

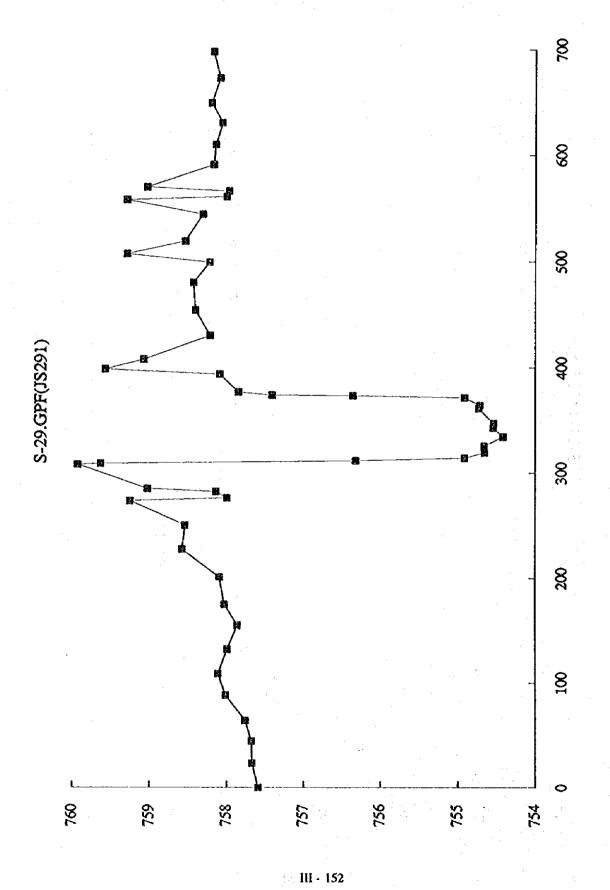


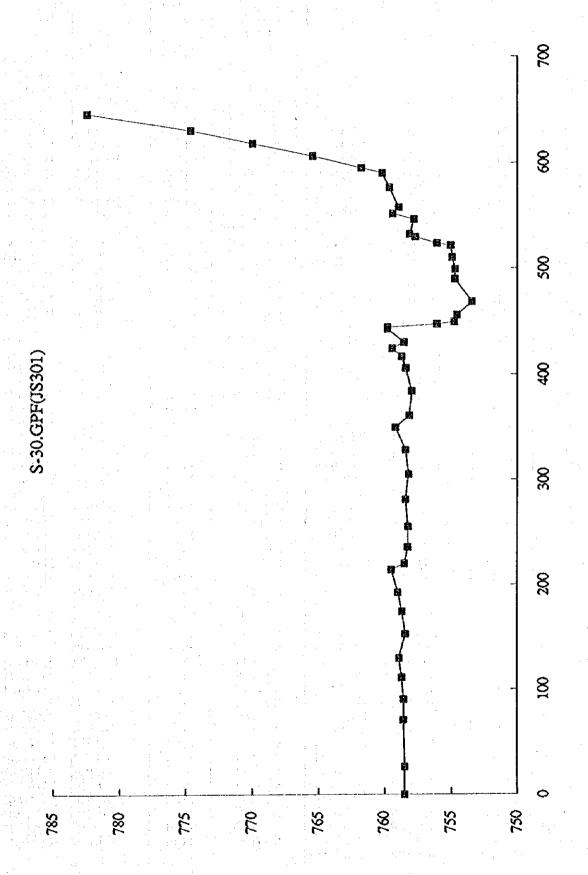






III - 151

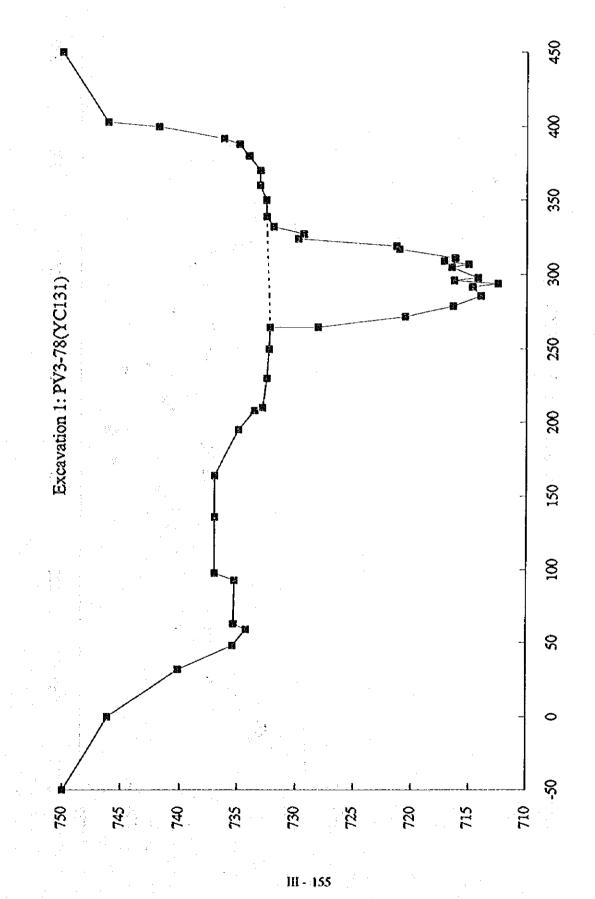


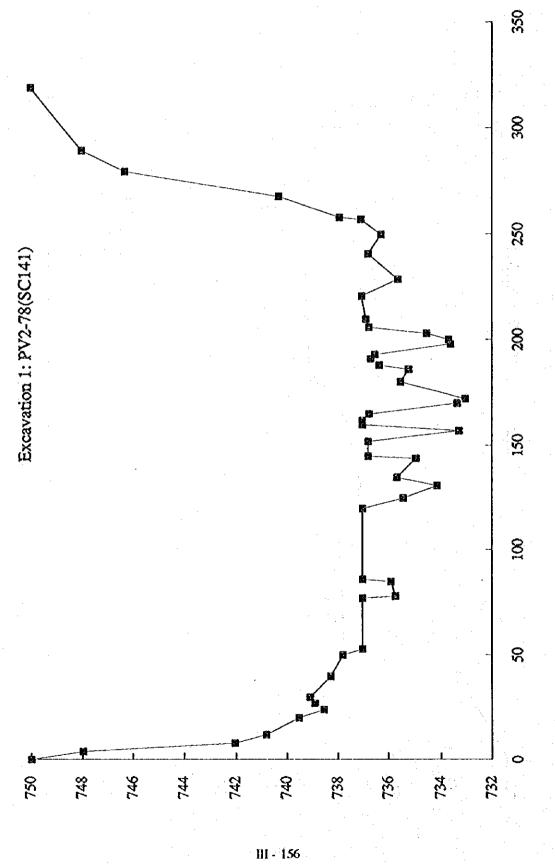


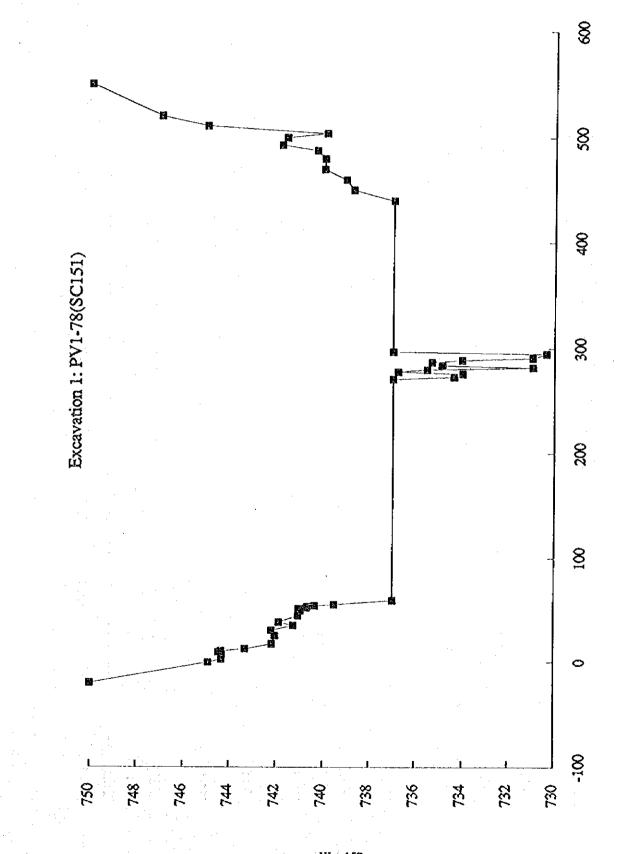
III - 153

3.2 River Cross Sections With Excavation - 1

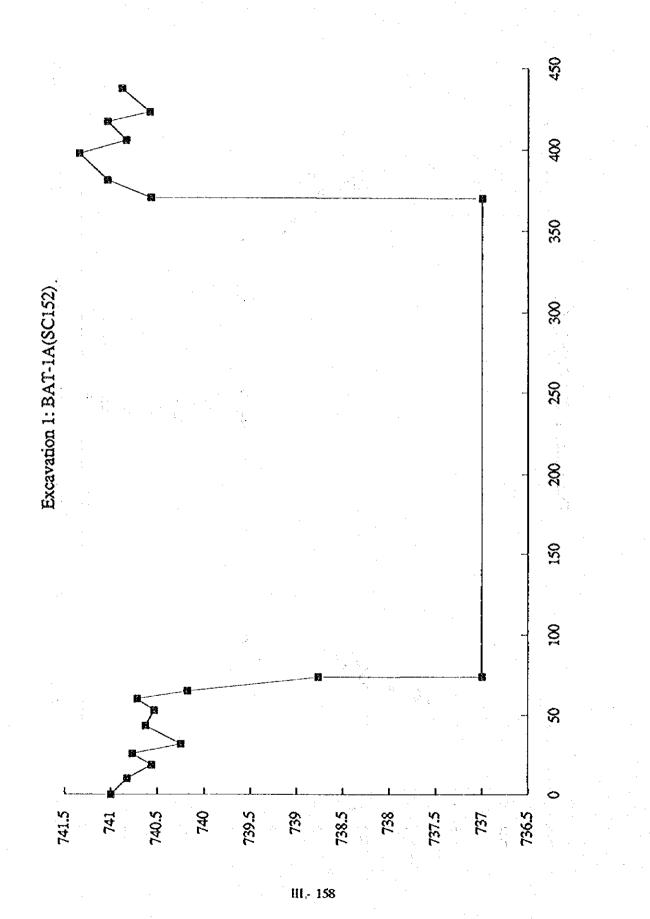
Original	Section	Distance	Accumulated	Original	Section	Distance	Accumulated
Section	No.		Distance	Section	No.		Distance
name		(m)	(m)	name	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(m)	(m)
D1-77	CN011	9230.000	0.000	18.GPF)T181	291.500	97908.500
D2-77	CN021	9230.000	9230.000	FINFL-26,ENT	CF021	699.237	98200,000
D3-77	CN031	12300.000	18460.000	19.GPF	JT191	998.171	98899.237 99897.408
D4-77	CN041	10000.000	30760.000	20.GPF FINFL-25.ENT	JT201 CF031	1002.592 3300.000	100900.000
D5-77	CN051	11540.000	40760.000 52300.000	FINFL-23.ENT	CF031 CF041	3500.000	104200.000
PV8-78 PV7-78	CN061 CN071	2160.000 3840.000	54460.000	FINFL-23.ENT	CF051	9950.000	107700.000
PV6-78	CN081	400.000	58300.000	FINFL-22.ENT	CF061	4650.000	117650.000
PV5A-78	CN091	1400.000	58700.000	FINFL-21.ENT	CF071	3900.000	122300,000
PV5-78	CNIOI	1420.000	60100.000	FINFL-20.ENT	CF081	5000.000	126200.000
PV4-78	CNIII	100.000	61520.000	FINFL-19.ENT	CF091	2000.000	131200.000
M1-73	CN121	3040.000	61620.000	FINFL-18.ENT	CF101	2000.000	133200.000
PV3-78	YC131	640,000	64660.000	FINFL-17.ENT	CFIII	5750.000	135200.000
PV2-78	SC141	500,000	65300.000	FINFL-16.ENT	CF121	3250.000	140950.000
PV1-78	SC151	70.000	65800.000	FINFL-15.ENT	CF131	3500.000	144200.000
BAT-IA	SC152	70.000	65870.000	FINFL-14.ENT	CF141	2250.000	147700.000
BATAB	SC153	60.000	65940.000	FINFL-13.ENT	CF151	3250.000	149950.000
BAT-2	SC154	50.000	66000.000	FINFL-12.ENT	CF161	5050.000	153200.000
B3-84	CN161	260.000	66050.000	FINFL-11.ENT	CF171	3050.000	158250.000
R5-94	CN171	/ 1200.000	66310.000	FINFL-10.ENT	ĆF181	2950.000	161300.000
R4-94	SC181	300.000	67510.000	FINFL-09.ENT	CF191	4550.000	164250.000
M2-73	SC191	690.000	67810.000	FINFL-08.ENT	CF201	4400.000	168800.000
UV8-78	CN201	1400.000	68500.000	FINFL-07,ENT	CF211	4850.000	173200.000
UV7-78	CN211	1400.000	69900.000	FINFL-06.ENT	CF221	1700.000	178050.000
UV6-78	CN221	1600.000	71300.000	FINFL-05.ENT	CF231 CF241	3950.000 2225.000	179750.000 183700.000
M3-73	CN231	1400.000 300.000	72900.000 74300.000	FINFL-04.ENT FINFL-03.ENT	CF251	4775.000	185925.000
UV5A-78 R3-94	CN241 CN251	300.000	74600.000	FINFL-03,ENT	CF251	7000.004	190700.000
UV5.78	CN261	2170.000	74900.000	FINFL-01,ENT	CF271	1805.800	197700.004
R2-94	CN271	230.000	77070.000	S-02.GPF	JS021	1552.490	199505.804
UV4-78	CN281	1200.000	77300.000	S-03.GPF	JS031	1762.610	201058.294
M4-73	CN291	1400.000	78500.000	S-04.GPP	JS041	2644.140	202820.904
UV3-78	CN301	1368.559	79900.000	S-05.GPP	JS051	2191.590	205465.044
01,0PF	ST011	999.116	81268.559	S-06.GPF	JS061	2388.090	207656.634
02,GPF	ST021	232.325	82267.675	S-07.GPF	JS071	3521.930	210044.724
WV2-78	SC311	762.845	82500.000	S-08.GPF	JS081	1817.230	213566.654
03.GPP	ST031	737.155	83262.845	S-09.GPF	JS091	2028,390	215383.884
R1-94	SC321	174.458	84000.000	S-10.GPF	JS101	2469.990	217412.274
04.GPF	JT041	725.542	84174,458	S-11.GPF	JS111	1076.570	219882,264
M5-73	CN331	308.594		S-12.GPF	JS121	2390.910	
05.GPF	JT051	999.700		S-13.GPF	JS131	2077.590	
06.GPF	JT061	91,706		S-14,GPF	JS141	2319.950	225427.334
M6-73	CN341	736.650		S-15.GPF	JS151	1916.490	227747.284
07.GPF	JT071	263.350		S-16.GPF	JS161	2866.920	229663.774 232530.694
M7.73	SC351	735.024 988.412	87300.000 88035.024	S-17.GPF S-18.GPF	JS171 JS181	1134.620 1295.530	232530.694
08.OPF 09.GPF	ST081 JT091	988.412		S-19.GPF	JS181 JS191	737.220	234960.844
10.GPF	JT101	890.555		S-20.GPF	JS201	998.120	
M8-73	CN361	95.809		S-21.GPF	JS211	391.560	236696,184
11.OPF	STIII	990.253		S-22.GPF	JS221	1191.210	237087.744
12.GPF	ST121	955.756		S-23.GPF	15231	487.750	238278.954
13.GPP	ST131	758.182		S-24.GPF	JS241	557.770	
UV-92	CN371	214.332		S-25.GPF	JS251	436.940	239324.474
14,GPF	JT141	185.668		S-26.GPF	JS261	516.210	239761,414
UV1-78	CN381	804.008		S-27.GPF	J\$271	512.410	240277.624
15.GPF	ST151	295.992		S-28.GPF	JS281	919.310	240790.034
FINFL-27.ENT	SF011	712.720		S-29.GPF	JS291	875.150	241709.344
16.GPF	ST161	990.062		S-30.GPF	JS301	0.000	242584,494
17,0PF	ST171	1005.718	. 96902.782				
		Fe. int the second with the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section is a section in the				Particular Committee	

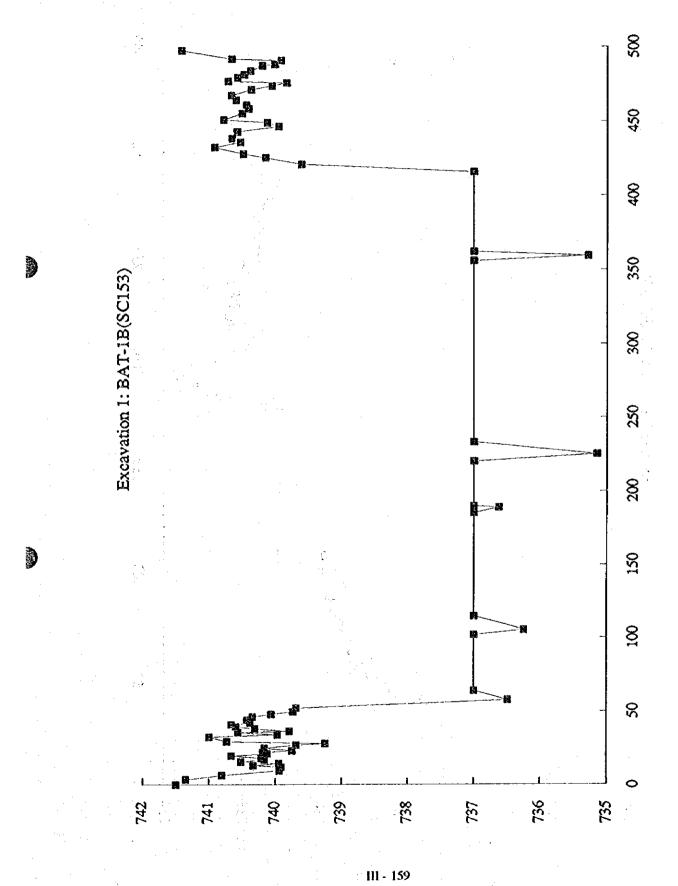


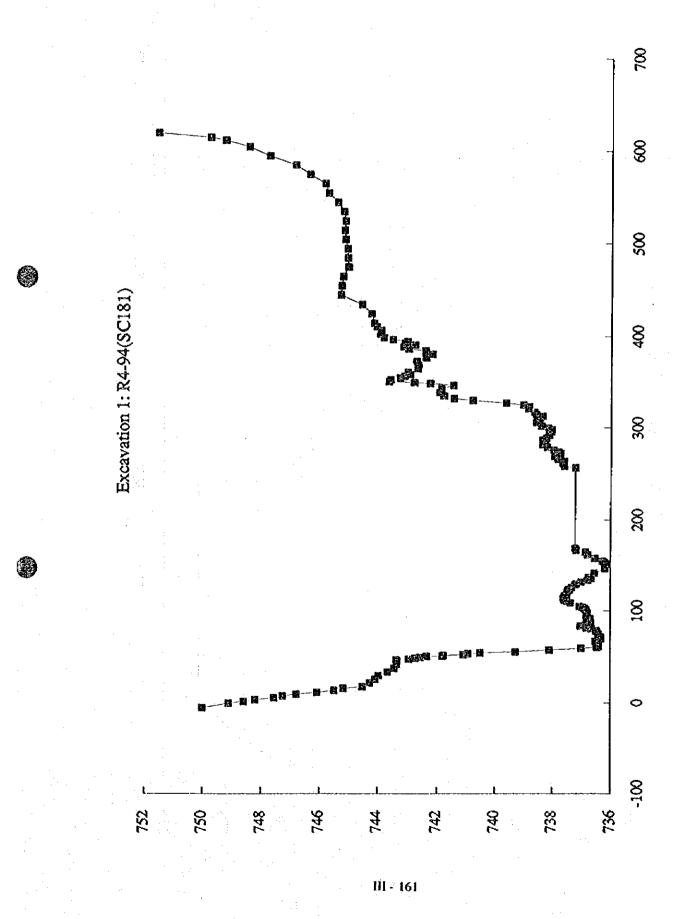


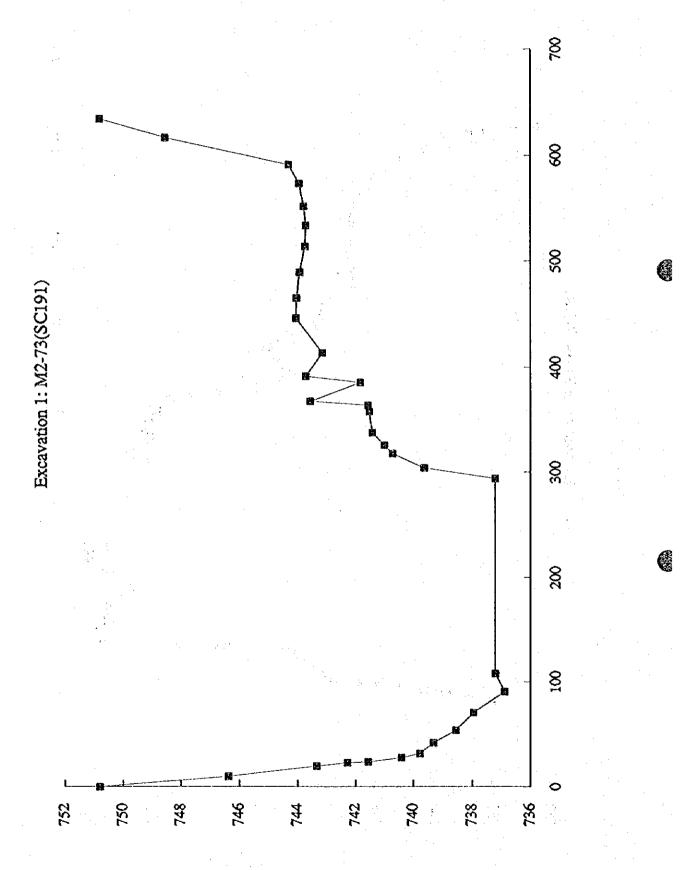


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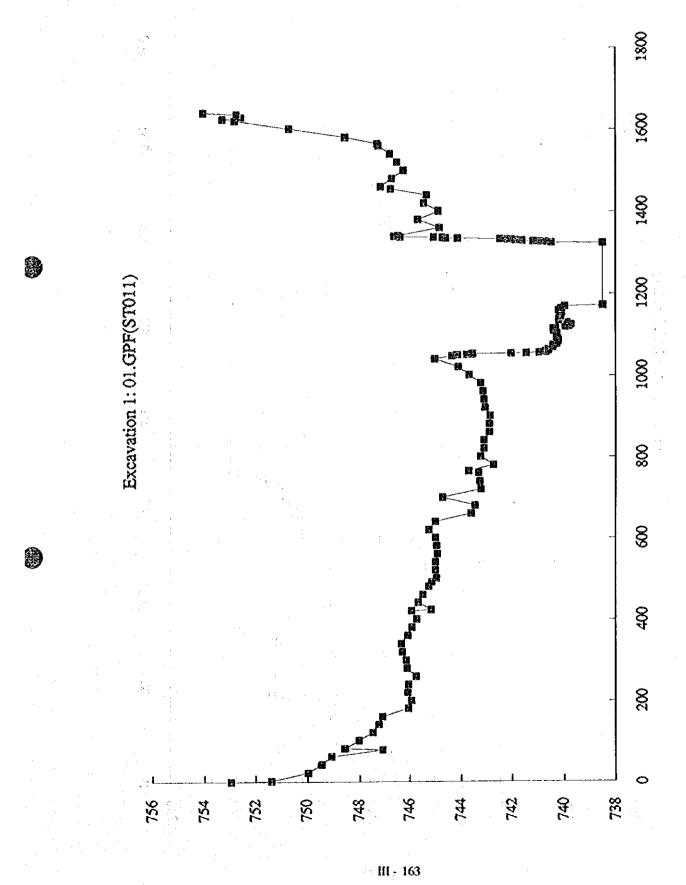


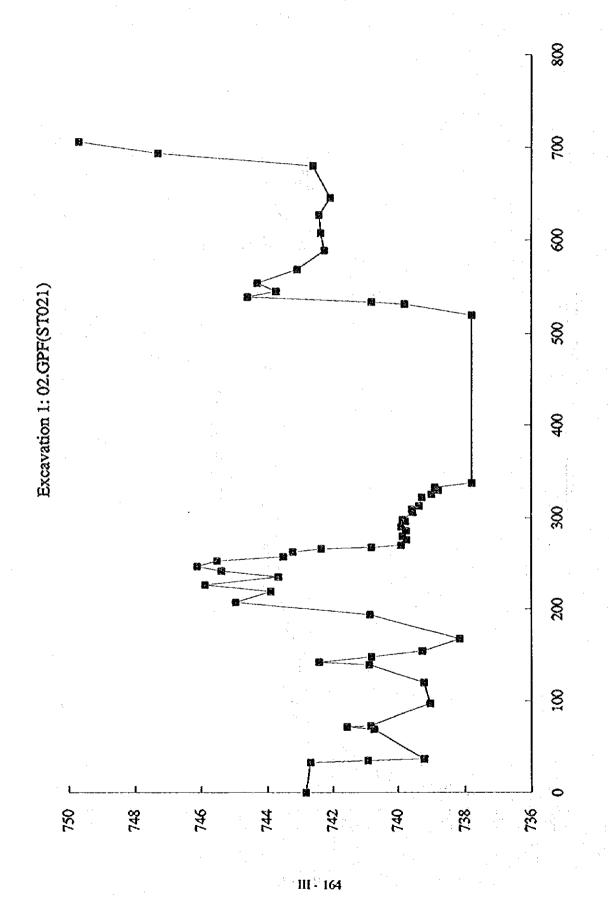


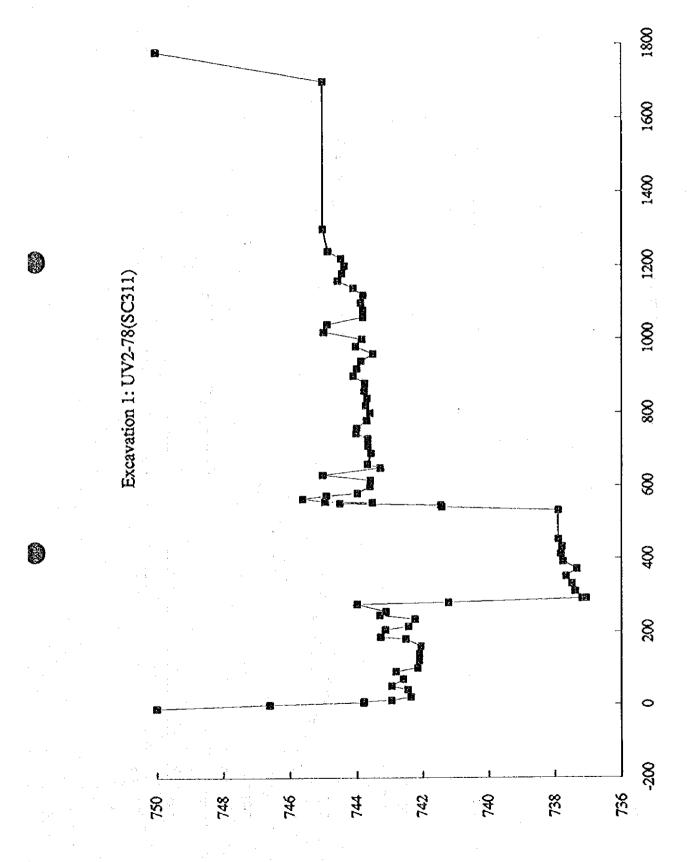




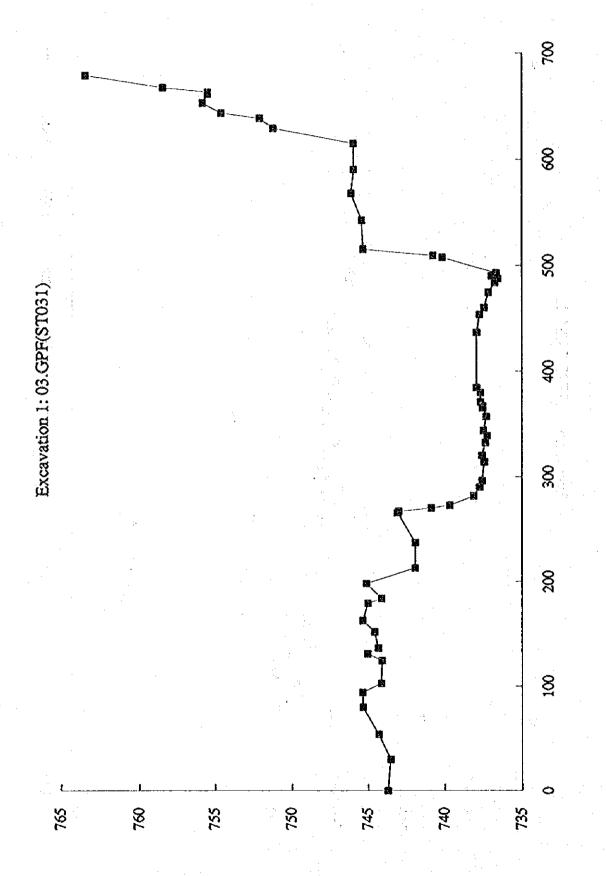
III - 162

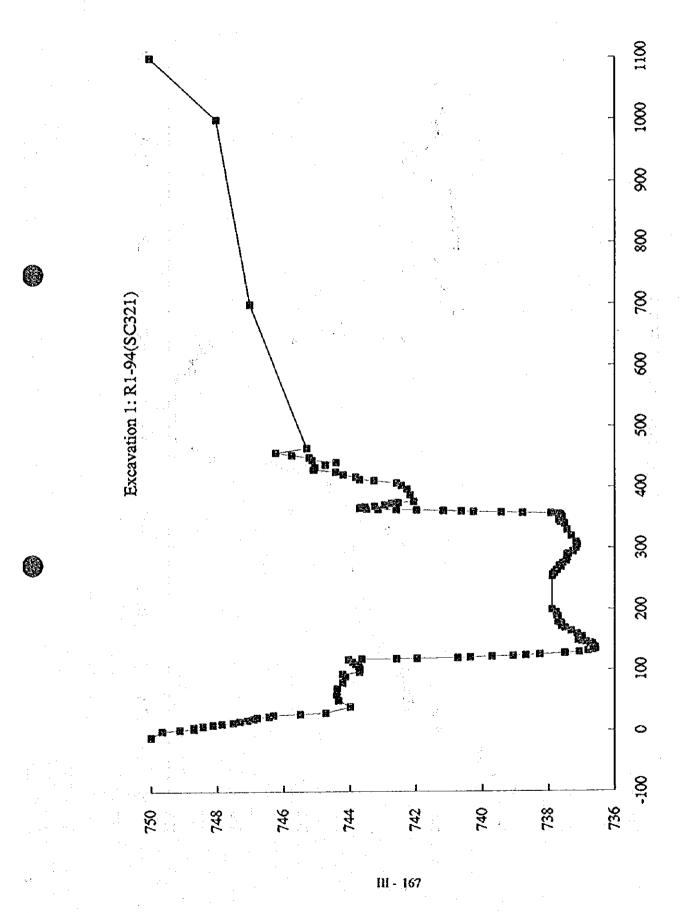


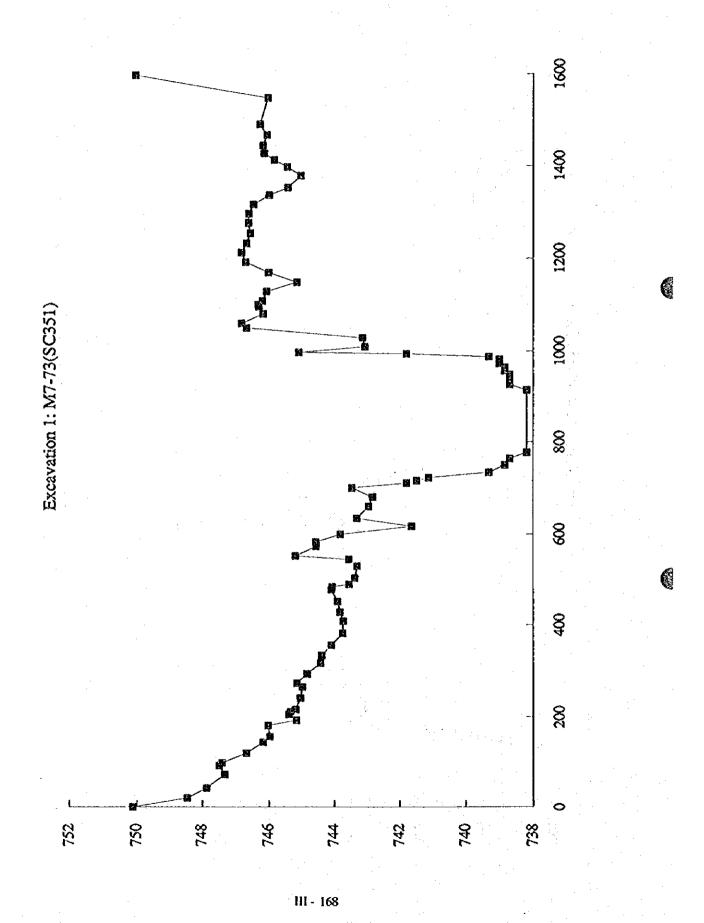


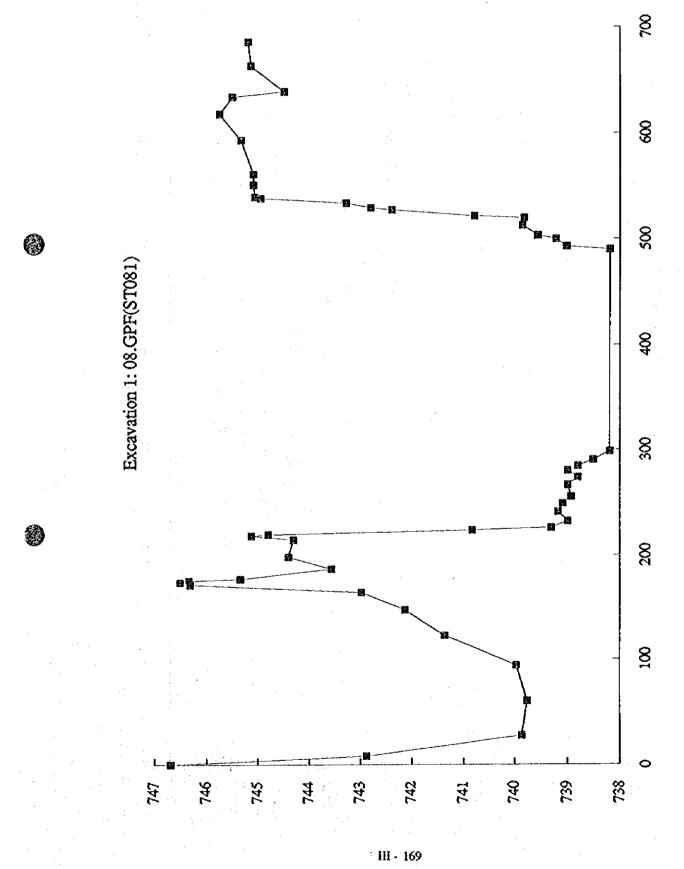


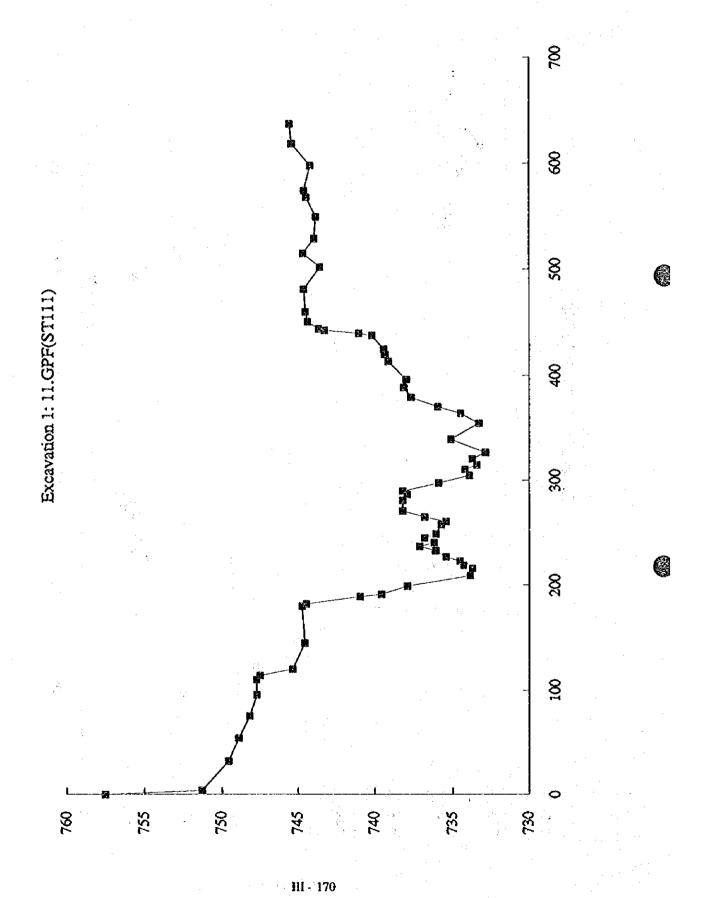
III - 165

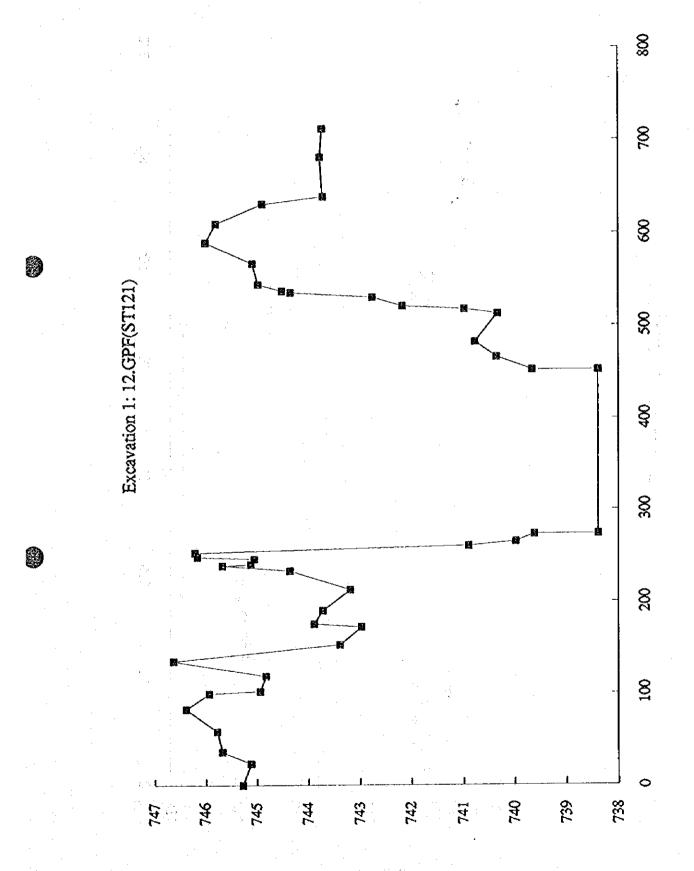


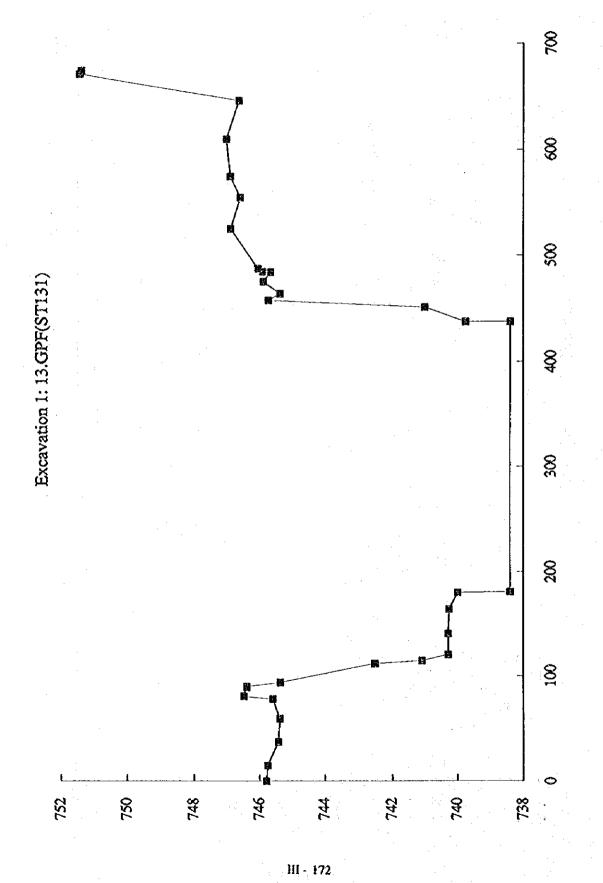




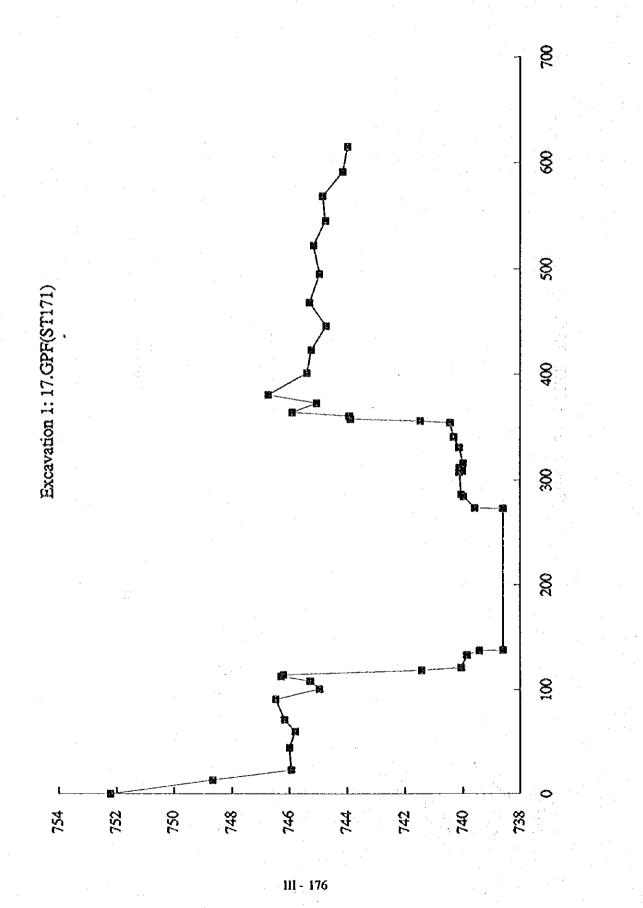






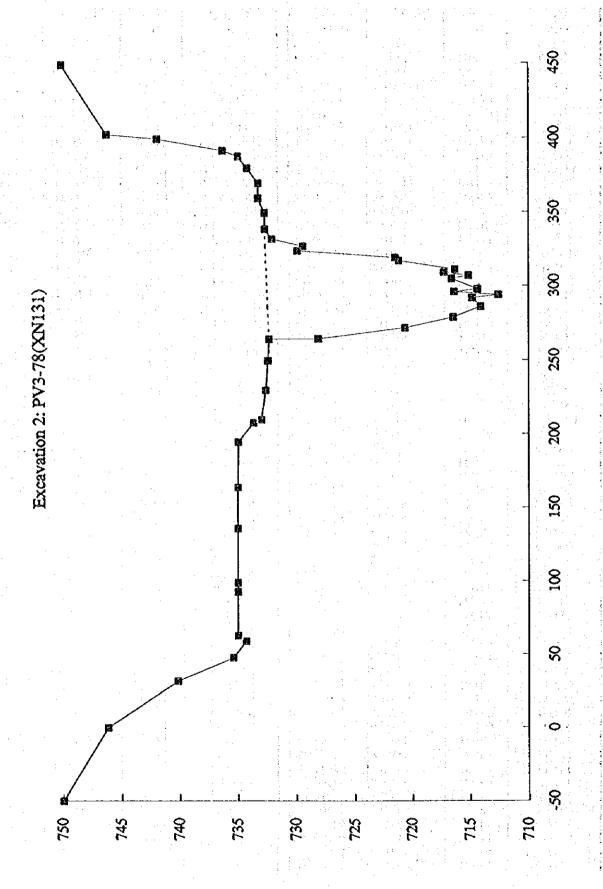


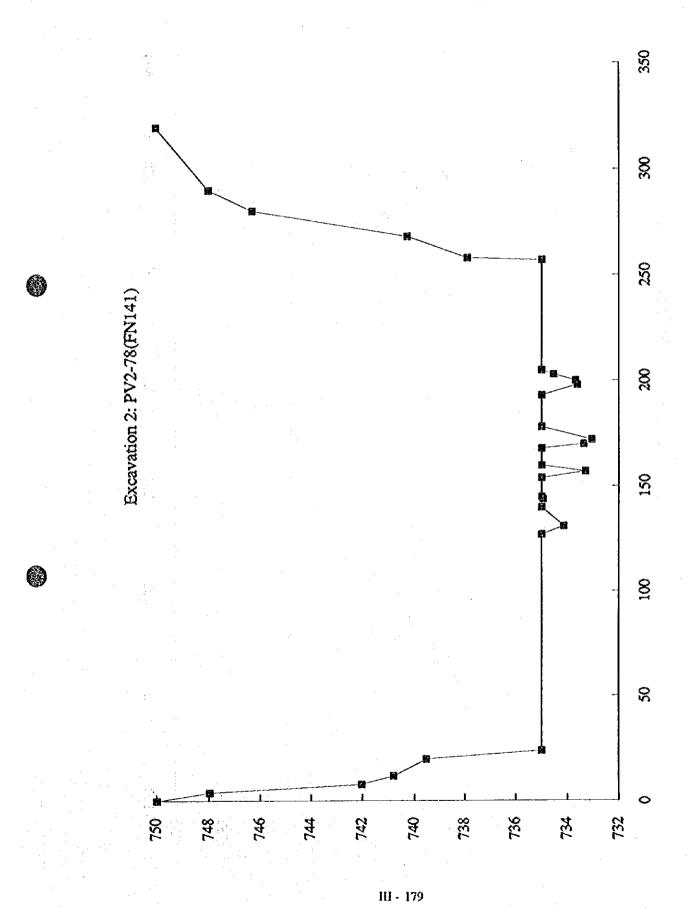
III - 174

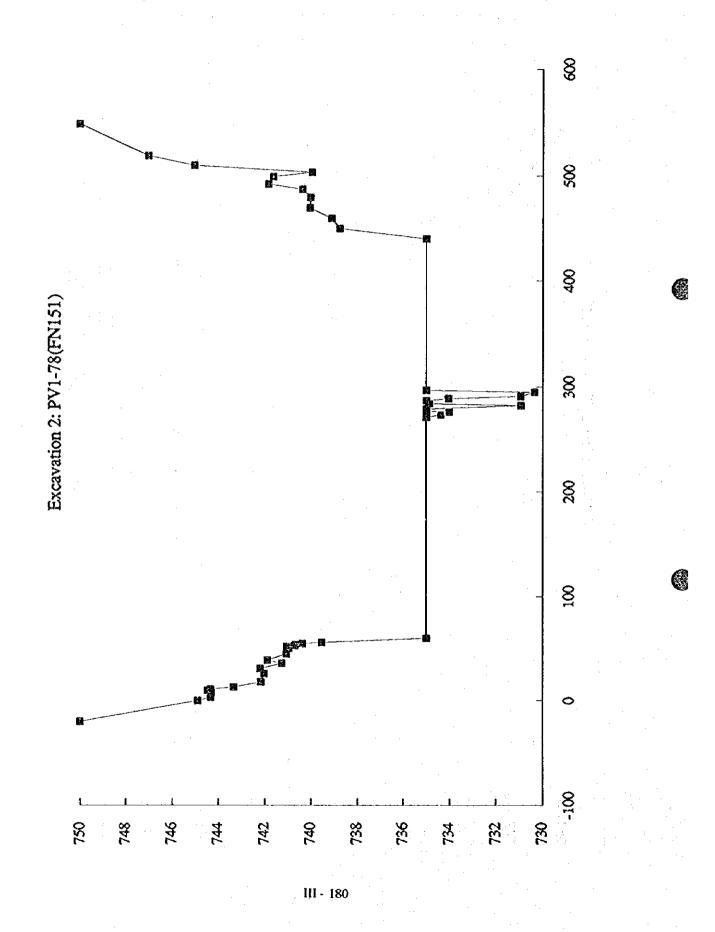


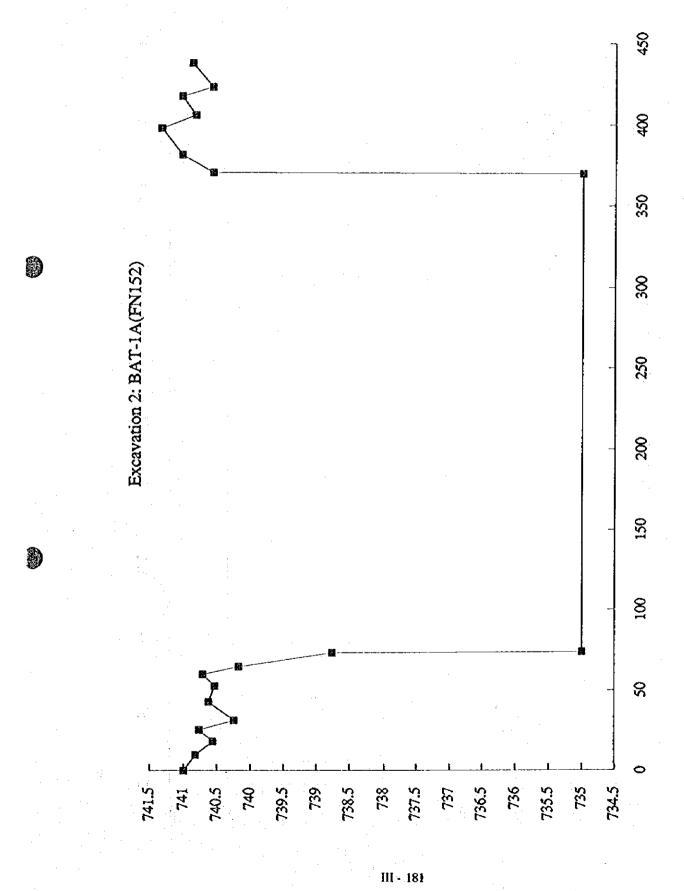
3.3 River Cross Sections With Excavation - 2

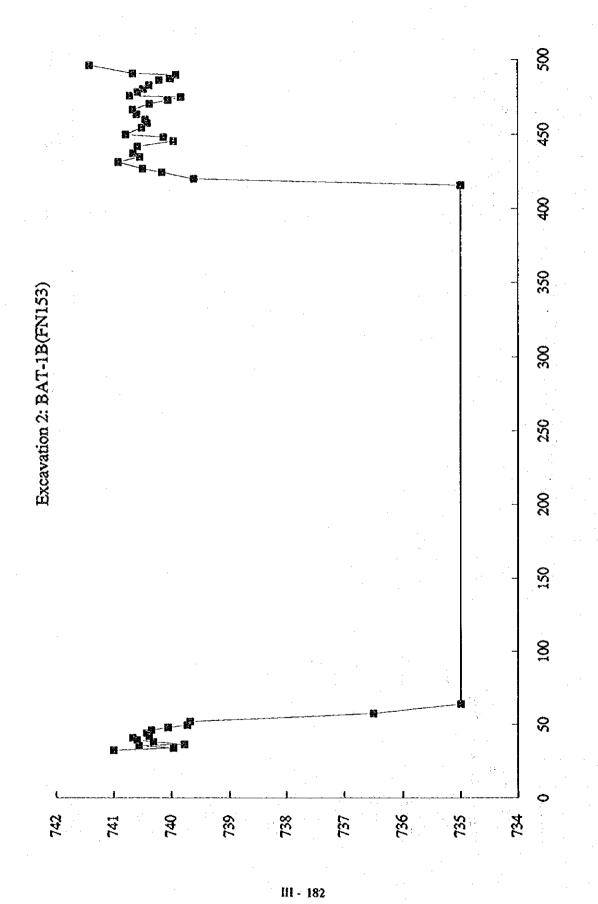
Original	Section	Distance	Accumulated	Original	Section	Distance	Accumulate
Section	No.		Distance	Section	No.		Distance
name		(m)	(m)	name		(m)	(m)
D1-77	CN011	9230.000	0.000	18.GPF	JT181	291.500	97908.50
D2-77	CN021	9230,000	9230.000	FINFL-26.ENT	CF021	699.237	98200.00
D3-77	CN031	12300.000	18460,000	19.GPF	JT 191	998.171	98899.23
D4-77	CN041	10000.000	30760.000	20.GPF	JT201	1002.592	99897.40
D5-77	CN051	11540,000	40760.000	FINFL-25.ENT	CF031	3300.000	100900.00
PV8-78	CN061	2160.000	52300.000	FINFL-24.ENT	CF041	3500.000	104200.0C
PV7-78	CN071	3840.000	54460.000	FINFL-23.ENT	CF051	9950.000	107700.00
PV6-78	CN081	400.000	58300.000	FINFL-22,ENT	CF061	4650,000	117650.00
PV5A-78	CN091	1400.000	58700,000	FINFL-21.ENT	CF071	3900.000	122300.00
PV5-78	CN101	1420.000	60100.000	FINFL-20,ENT	CF081	5000.000	126200.00
PV4-78	CNIII	100.000	61520.000	FINFL-19.ENT	CF091	2000,000	131200.00
M1-73	CN121	3040.000	61620.000	FINFL-18.ENT	CF101	2000.000	133200.00
PV3-78	XN131	640.000	64660.000	FINFL-17.ENT	CF111	5750.000	135200.00
PV2-78	FN141	500.000	65300.000	FINFL-16.ENT	CF121	3250.000	140950.00
PV1-78	FN151	70.000	65800.000	FINFL-15.ENT	CF131	3500.000	144200.00
BAT-1A	FN152	70.000	65870.000	FINFL-14.ENT	CF141	2250.000	147700.00
BAT-1B	FN153	60.000	65940.000	FINFL-13.ENT	CF151	3250.000	149950.00
BAT-2	FN154	50.000	66000.000	FINFL-12.ENT	CF161	5050.000	153200.00
B3-84	FN161	260.000	66050.000	FINFL-11.ENT	CF171	3050.000	158250.00
R5-94	CN171	1200.000	66310.000	FINEL-10 ENT	CF181	2950.000	161300.00
R4-94	FN181	300.000	67510.000	FINFL-09 ENT	CF191 CF201	4550,000	164250.00 168800.00
M2-73 UV8-78	FN191 FN201	690.000 1400.000	67810.000 68500.000	FINFL-08 ENT FINFL-07 ENT	CF201	4400.000 4850.000	173200.00
UV7-78	FN211	1400.000	69900.000	FINFL-06.ENT	CF221	1700.000	178050.00
	CN221	1600.000	71300.000	FINFL-05.ENT	CF231	3950.000	179750.00
UV6-78 M3-73	FN231	1400.000	72900.000	FINFL-04.ENT	CF241	2225,000	183700.00
UV5A-78	CN241	300.000	74300.000	FINFL-03.ENT	CF251	4775.000	185925.00
R3-94	FN251	300.000	74600.000	FINFL-02,ENT	CF261	7000.004	190700.00
UV3-78	CN261	2170.000	74900.000	FINFL-01.ENT	CF271	1805.800	197700.00
R2-94	CN271	230.000	77070.000	S-02.GPF	JS021	1552,490	199505.80
UV4-78	CN281	1200.000	77300.000	S-03.GPF	JS031	1762.610	201058.29
M4-73	CN291	1400.000	78500.000	S-04.GPF	JS041	2644.140	202820.90
UV3-78	CN301	1368.559	79900.000	S-05.GPF	JS051	2191.590	205465.04
01.GPF	FT011	999.116	81268.559	S-06.GPF	JS061	2388.090	207656.63
02.GPF	Fr021	232.325	82267.675	S-07.GPF	JS071	3521.930	210044.72
UY2-78	FN311	762.845	82500.000	S-08.GPF	JS081	1817.230	213566.65
03.GPF	FT031	737,155	83262.845	S-09.GPF	JS091	2028.390	215383.88
R1-94	FN321	174.458	84000.000	S-10.GPF	J\$101	2469.990	217412.27
04.GPF	JT041	725.542	84174,458	S-11.GPF	JS111	1076.570	219882.26
M5-73	CN331	308.594	84900,000	S-12.GPF	JS121	2390.910	220958.83
05.GPP	FT051	999.700	85208.594	S-13.GPF	JS131	2077.590	223349.74
06.GPF	JT061	91.706	86208.294	S-14.GPF	JS141	2319.950	225427.33
M6-73	FN341	736.650	86300.000	S-15.GPF	JS151	1916.490	227747.28
07.GPF	FT071	263.350	87036.650	S-16.GPF	JS161	2866.920	229663.77
M7-73	FN351	735.024	87300.000	S-17.GPF	JS171	1134.620	232530.69
08,GPP	F1081	988.412	88035.024	S-18.GPF	JS181	1295.530	233665.31
09.GPF	JT091	986.009	89023.436	S-19.GPF	JS191	737.220	234960.84
10.GPF	JT101	890.555	90009,445	S-20.GPF	JS201 JS211	998.120	235698.06
M8-73	CN361	95.809	90900.000	S-21.GPF S-22.GPF	JS211 JS221	391.560 1191.210	236696.18 237087.74
11,OPF	FIII	990.253	90995,809	S-23.GPF	JS231	487.750	237087.74
12.GPF	FT121	955.756 758.182	91986.062 92941.818	S-24.GPF	JS231 JS241	487.730 557.770	238766.70
13.GPF UV-92	FT131 FN371	214.332	93700.000	S-25.GPF	JS241 JS251	436.940	239324,47
14.GPF	JT141	185.668	93700.000	S-26.GPF	J\$251 J\$261	516.210	239761.41
UV1-78	FN381	804.008	94100.000	S-27.GPF	JS271	512.410	240277,62
15.GPF	FF151	295.992	94904.008	S-28.GPF	J\$281	919.310	240790.03
FINFL-27,ENT	FF011	712.720	95200.000	S-29.GPF	JS291	875.150	241709.34
16.GPF	FF161	990,062	95912.720	S-30.GPF	JS301	0.000	242584.49
17.GPF	FF171	1005.718	96902.782			0.000	
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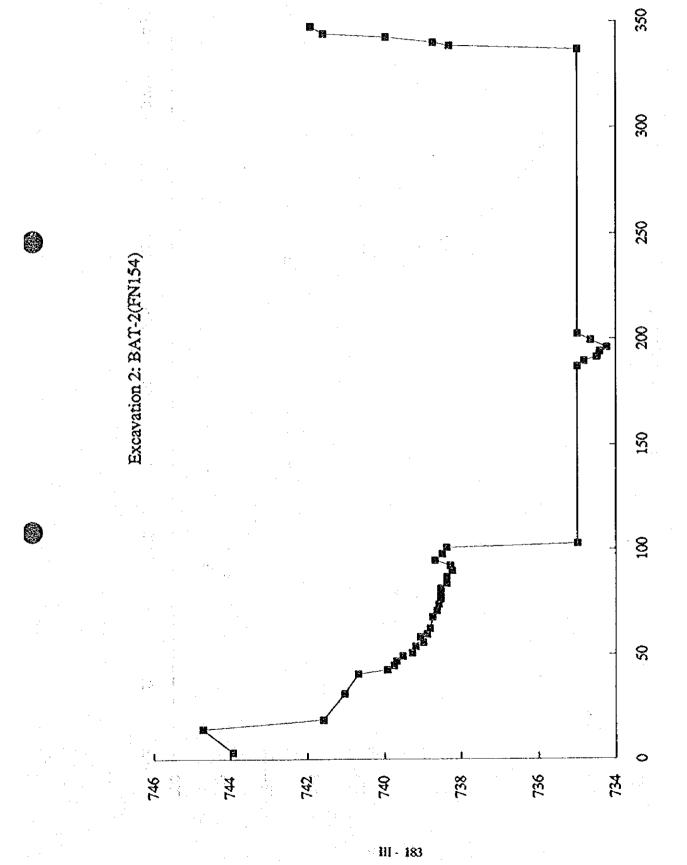


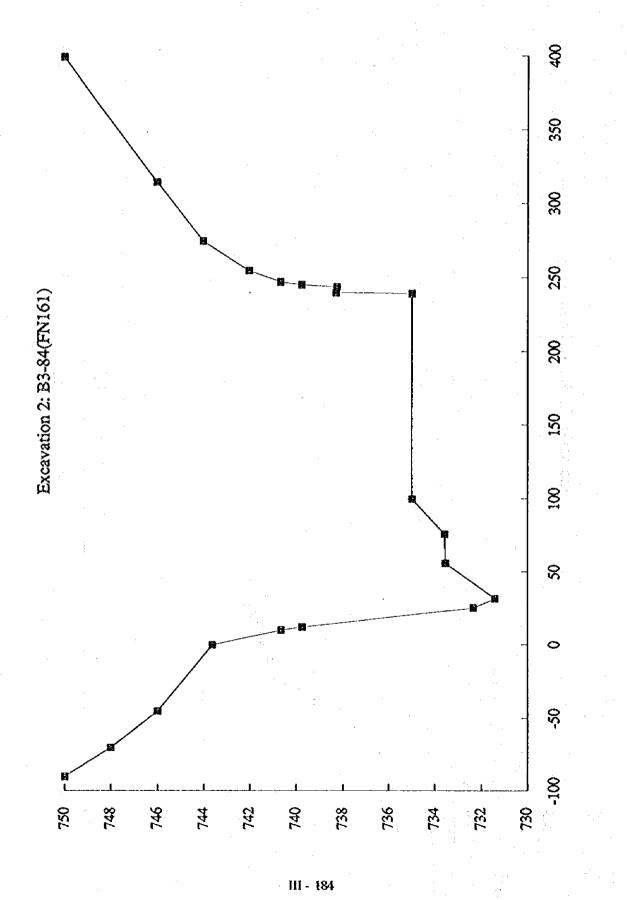


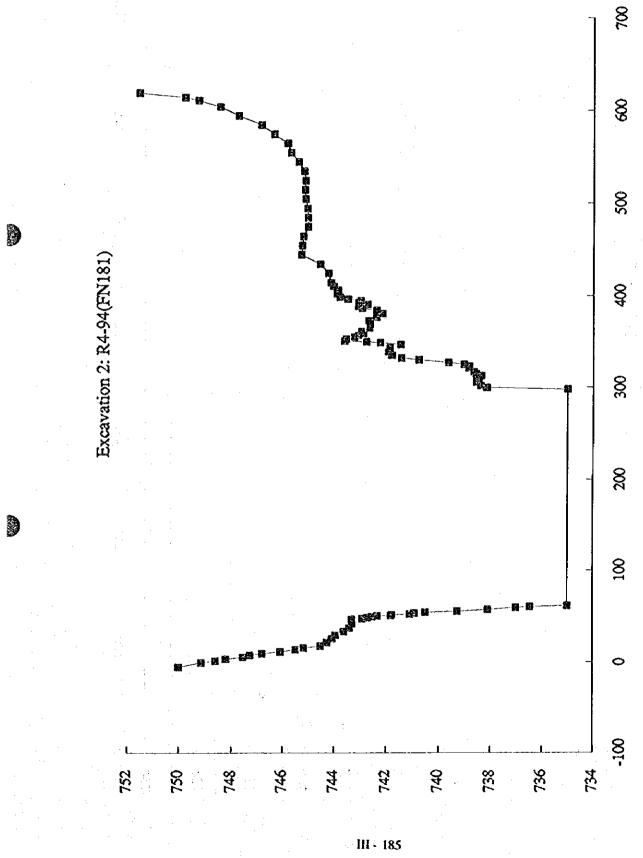


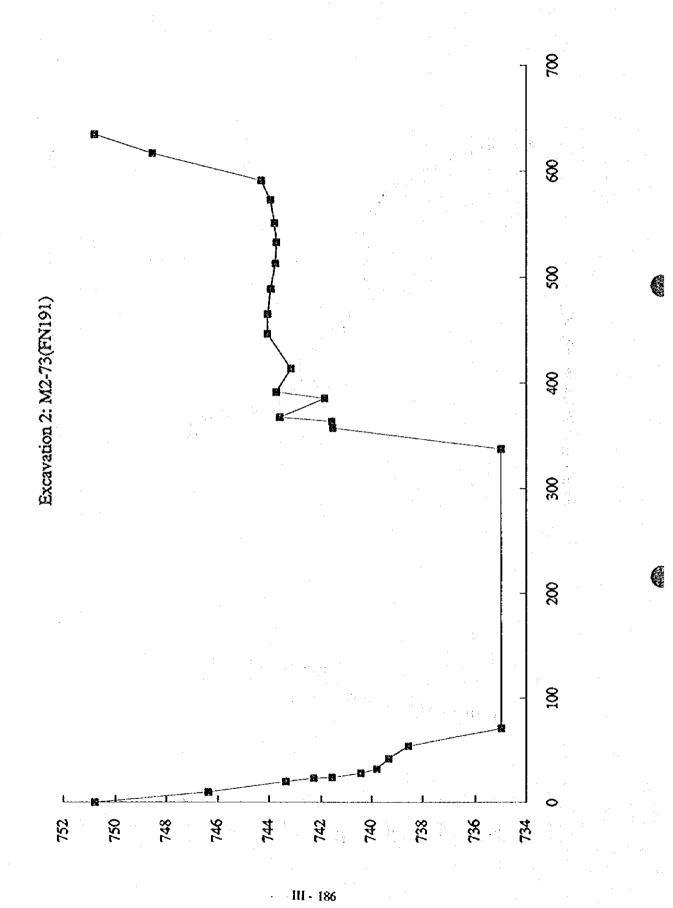


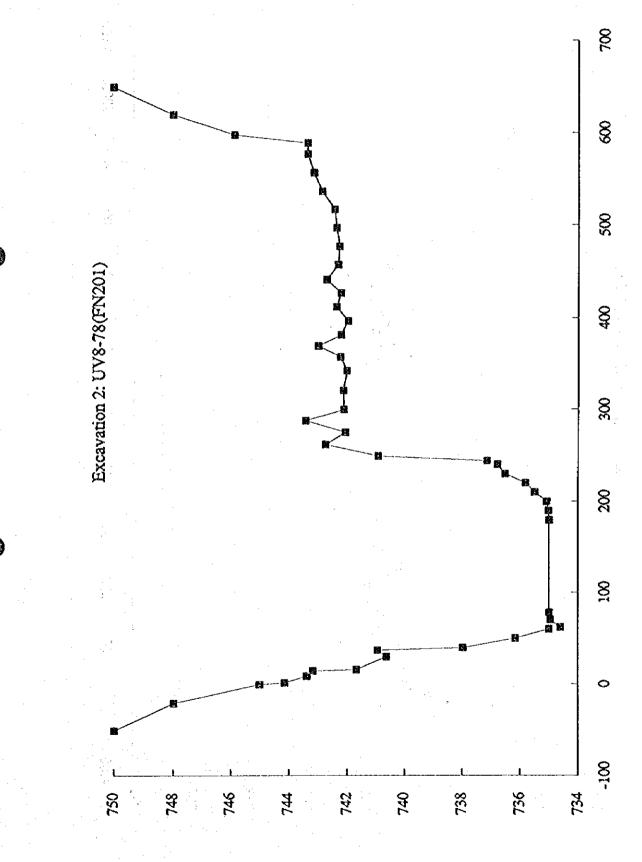




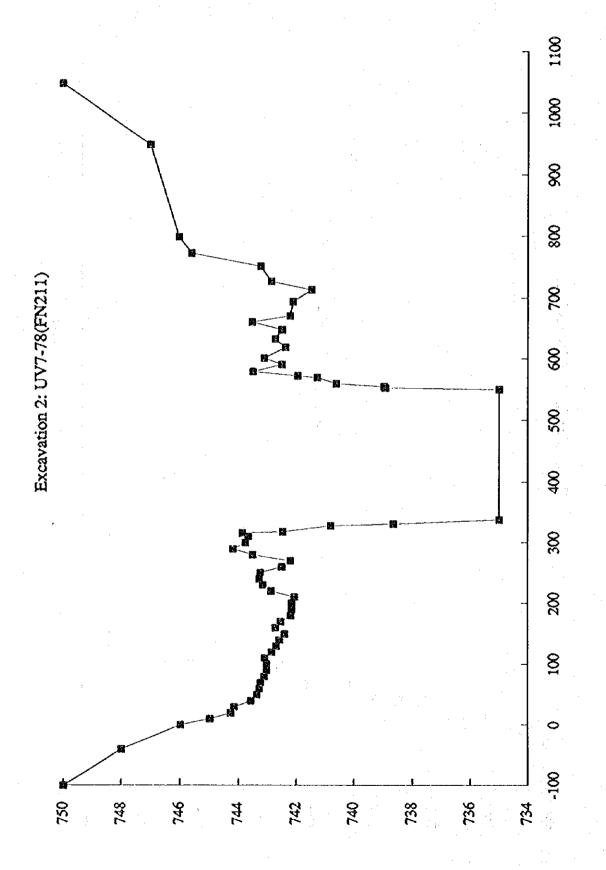


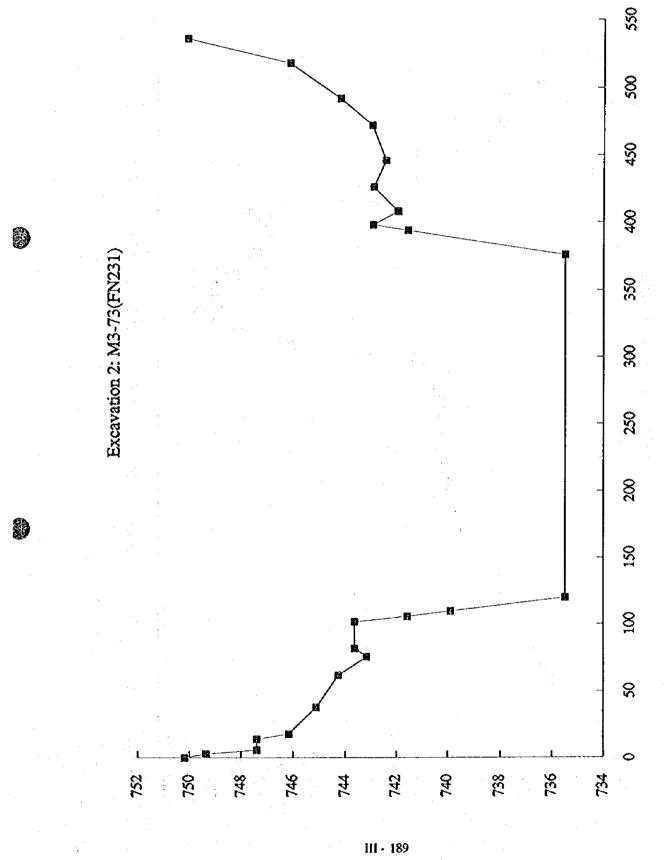


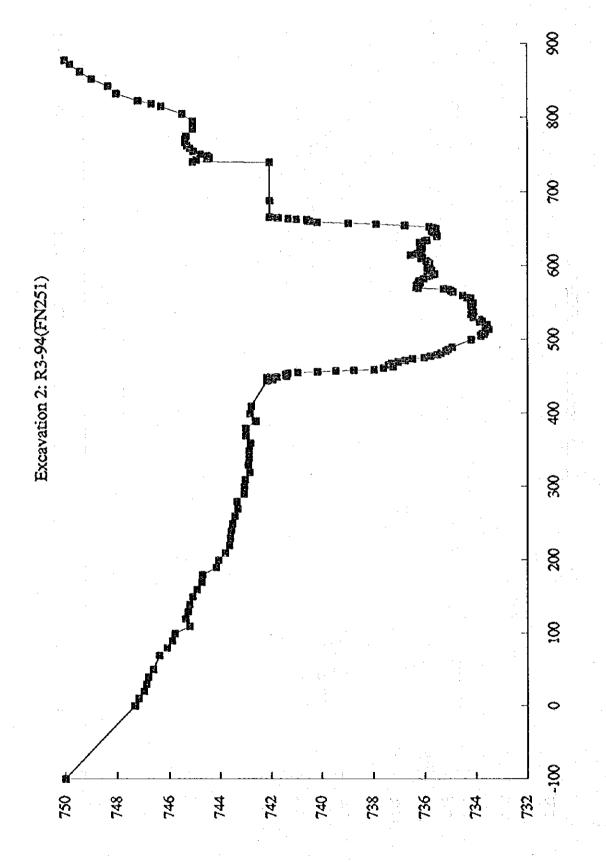




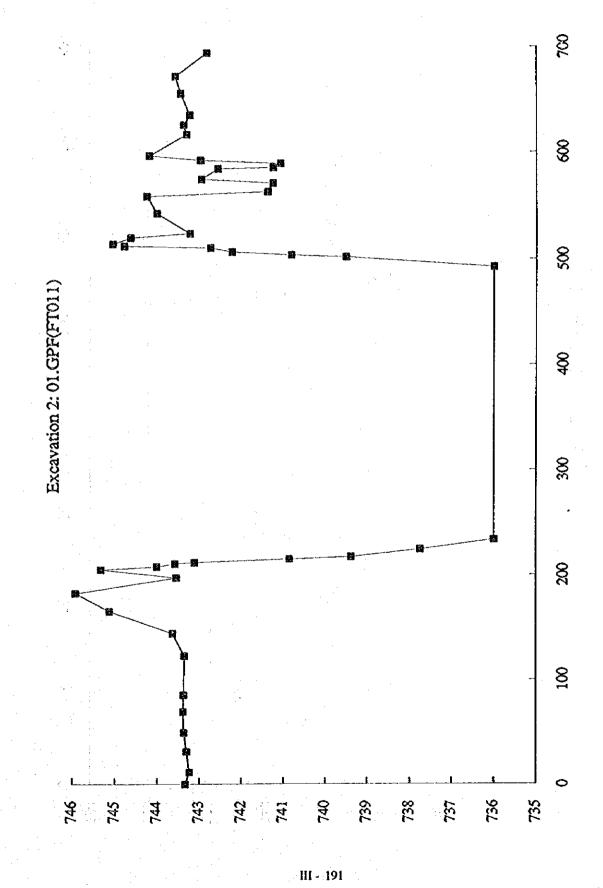
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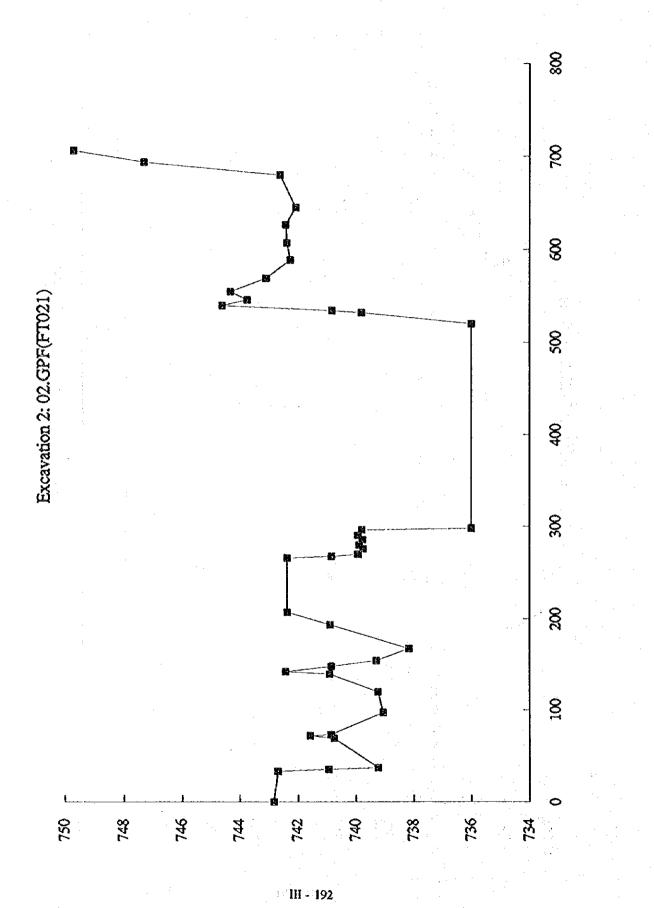


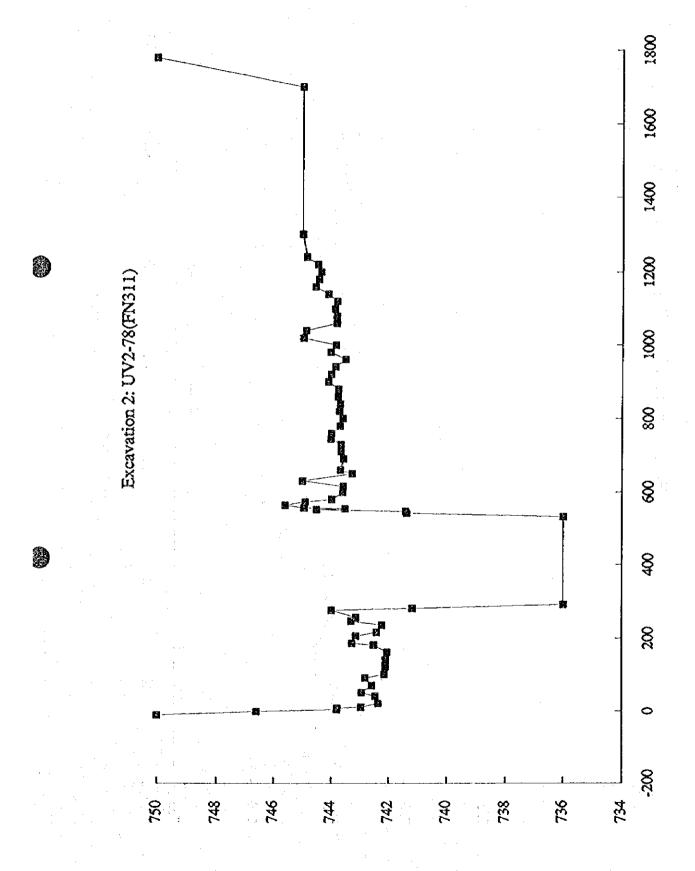


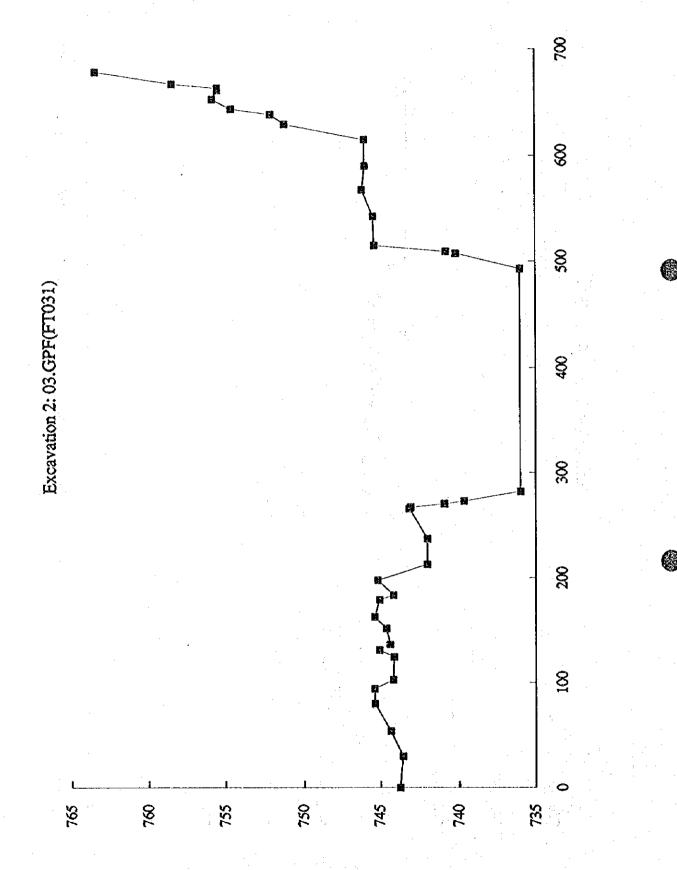


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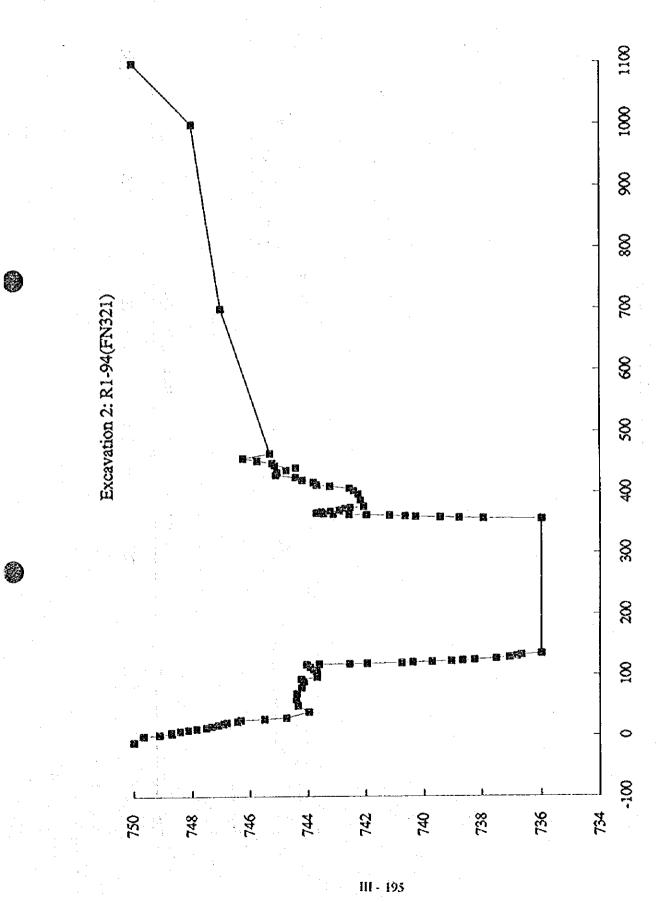


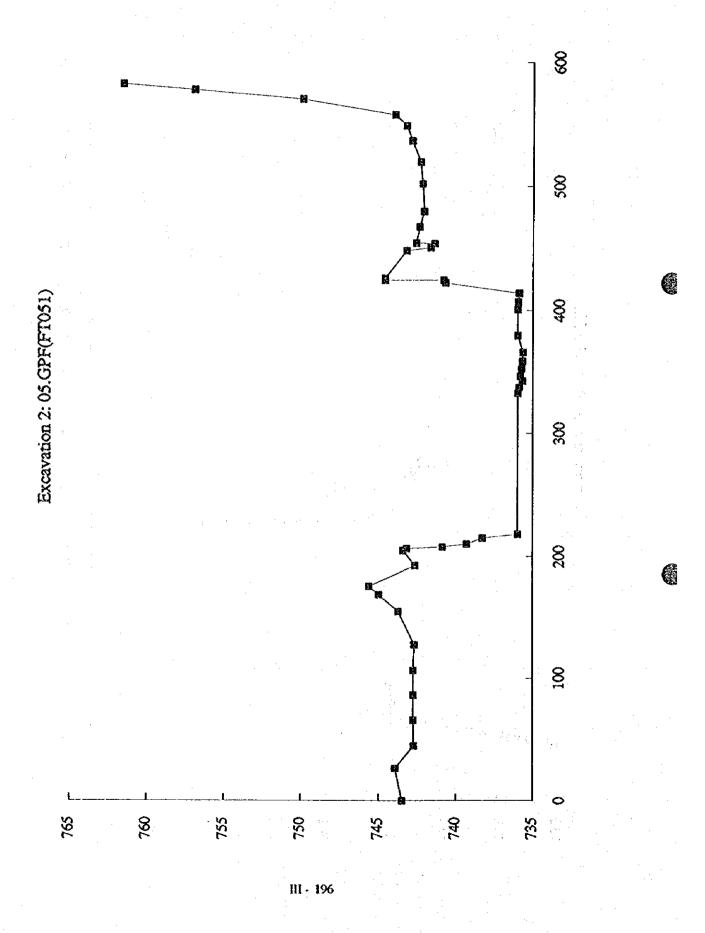


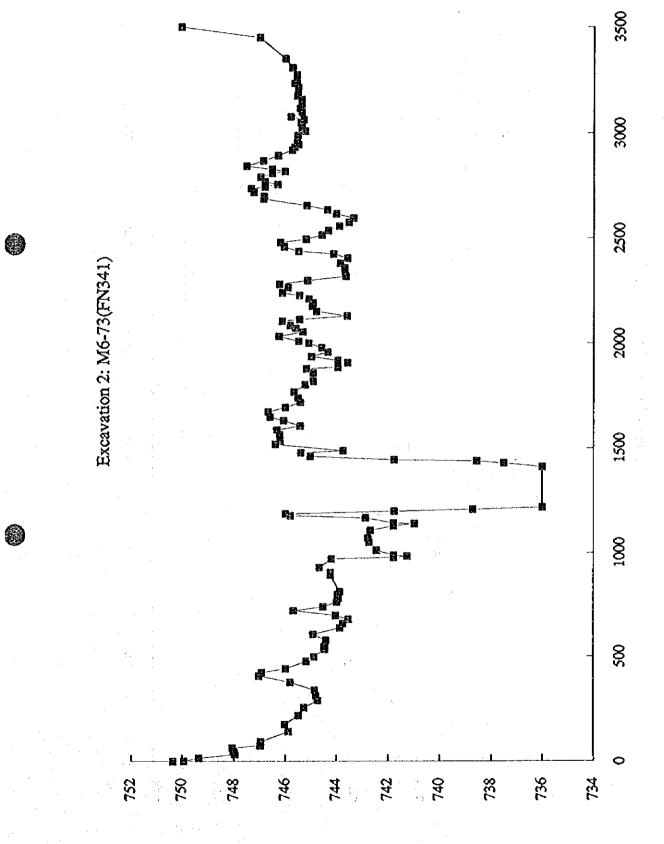


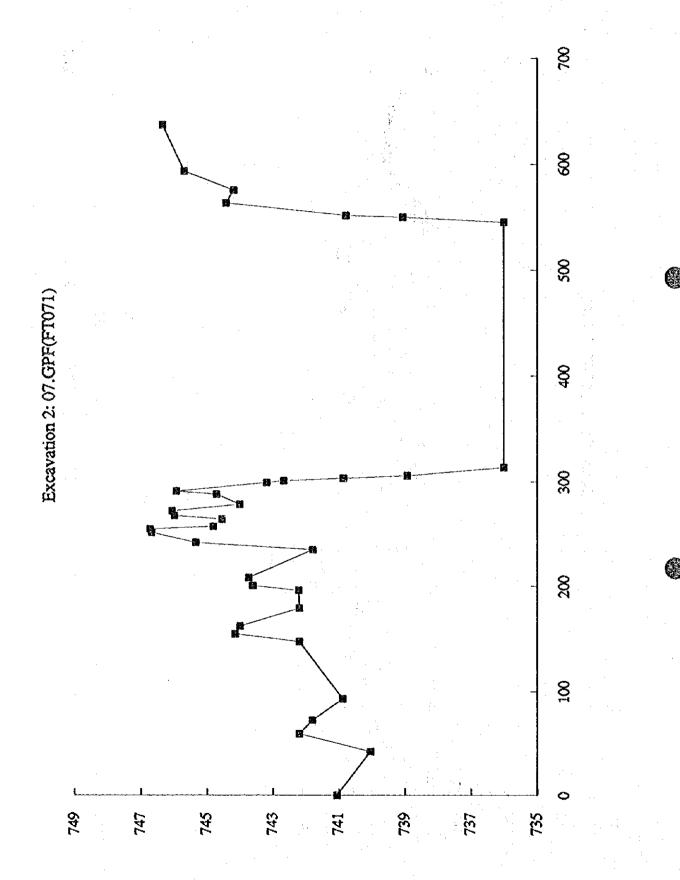


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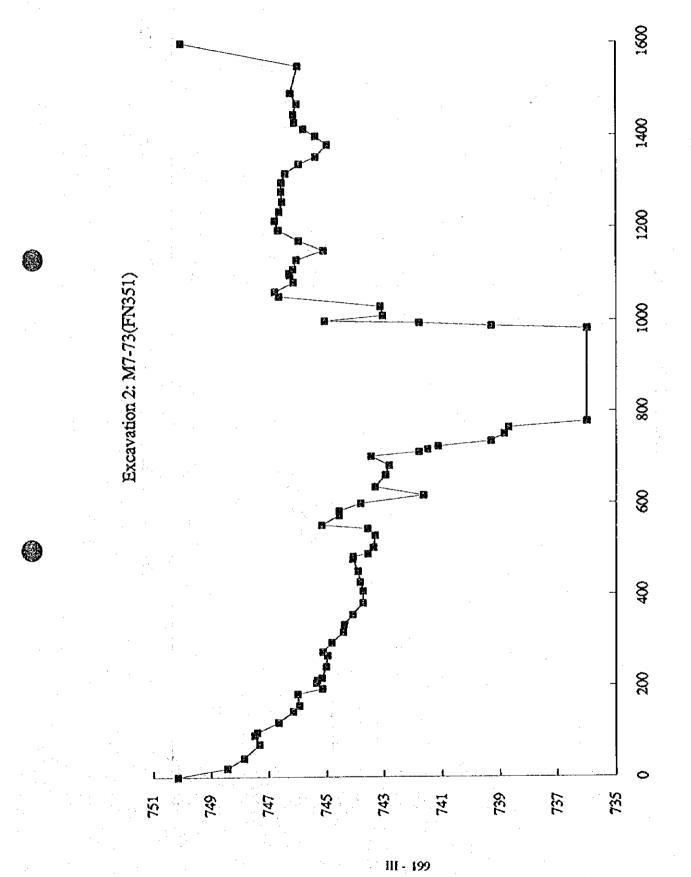


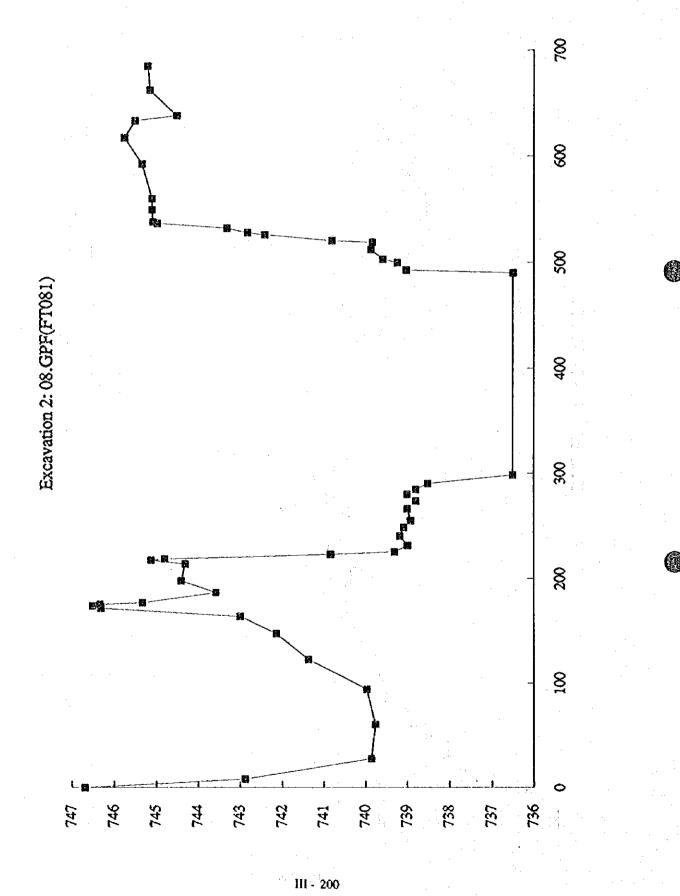


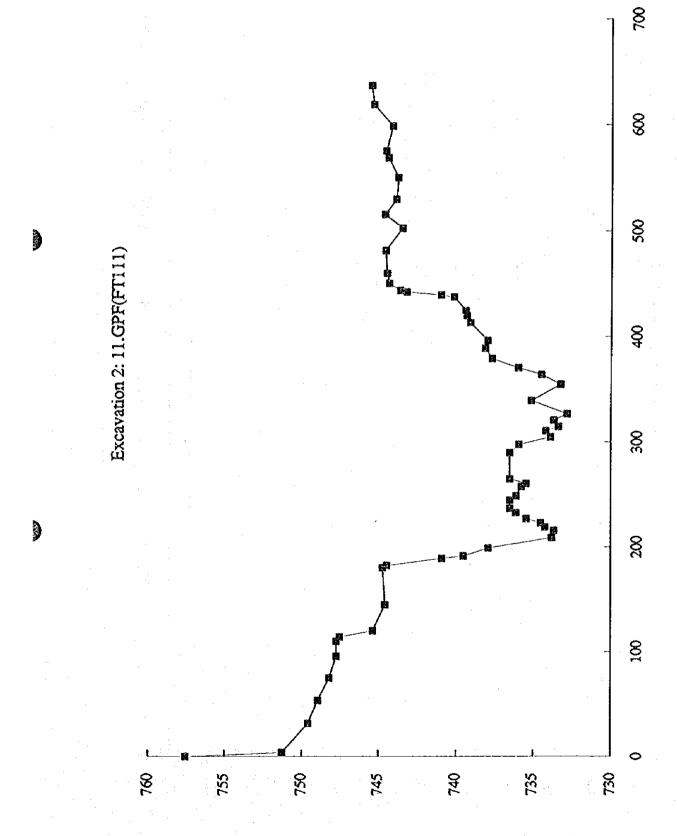




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