

Instrument :

FID_E

ClientSampleId :

EX-11-TPH-4DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11112

Data File : FE051142.D

Signal(s) : FID1B.ch

Acq On : 11 Nov 2024 11:41

Sample : P4721-07DL 20X

Misc :

ALS Vial : 10 Sample Multiplier: 1

Reviewed By :Yogesh Patel 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M

Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.519	3.504	3.531	BV	646	4525	0.13%	0.003%
2	3.552	3.531	3.594	PV	6938	123875	3.60%	0.080%
3	3.630	3.594	3.664	VV	4931	87400	2.54%	0.057%
4	3.684	3.664	3.725	VV	14177	200167	5.82%	0.130%
5	3.766	3.725	3.801	VV	6969	163429	4.75%	0.106%
6	3.821	3.801	3.854	VV	2541	50982	1.48%	0.033%
7	3.870	3.854	3.897	VV	6234	63295	1.84%	0.041%
8	3.933	3.897	3.945	PV	7960	111177	3.23%	0.072%
9	3.952	3.945	3.981	VV	6404	76035	2.21%	0.049%
10	4.030	3.981	4.078	VV	12167	222220	6.46%	0.144%
11	4.099	4.078	4.120	VV	6254	104563	3.04%	0.068%
12	4.133	4.120	4.160	VV	4801	74459	2.17%	0.048%
13	4.180	4.160	4.191	VV	3017	38839	1.13%	0.025%
14	4.202	4.191	4.213	VV	2960	34536	1.00%	0.022%
15	4.232	4.213	4.245	VV	8400	98755	2.87%	0.064%
16	4.261	4.245	4.278	VV	9357	125266	3.64%	0.081%
17	4.295	4.278	4.345	VV	5420	125201	3.64%	0.081%
18	4.382	4.345	4.406	PV	7504	111763	3.25%	0.073%
19	4.429	4.406	4.455	VV	7021	126406	3.68%	0.082%
20	4.471	4.455	4.538	VV	3842	122372	3.56%	0.079%
21	4.560	4.538	4.601	VV	5338	84075	2.45%	0.055%
22	4.619	4.601	4.631	VV	2238	29180	0.85%	0.019%
23	4.668	4.631	4.684	VV	8280	165689	4.82%	0.108%
24	4.700	4.684	4.728	VV	10946	213352	6.20%	0.138%
25	4.740	4.728	4.755	VV	7890	96602	2.81%	0.063%
26	4.773	4.755	4.786	VV	22736	246683	7.17%	0.160%
27	4.797	4.786	4.815	VV	17804	215419	6.26%	0.140%
28	4.832	4.815	4.869	VV	13426	321133	9.34%	0.208%
29	4.907	4.869	4.919	VV	15168	290528	8.45%	0.189%
30	4.952	4.919	4.978	VV	17381	391600	11.39%	0.254%
31	4.998	4.978	5.037	VV	19340	313470	9.12%	0.203%
32	5.068	5.037	5.085	VV	7787	151676	4.41%	0.098%
33	5.104	5.085	5.145	VV	12868	258532	7.52%	0.168%
34	5.168	5.145	5.184	VV	12291	180435	5.25%	0.117%
35	5.197	5.184	5.220	VV	9001	125549	3.65%	0.081%
36	5.265	5.220	5.304	VV	15555	456654	13.28%	0.296%

37	5.320	5.304	5.342	VV	7945	136151	3.96%	0.088%
38	5.373	5.342	5.385	VV	8035	144952	4.41%	0.088%
39	5.407	5.385	5.442	VV	17606	409854	11.40%	0.088%
40	5.468	5.442	5.481	VV	14072	271582	7.72%	0.088%
41	5.500	5.481	5.516	VV	15032	258736	7.72%	0.080%
42	5.531	5.516	5.555	VV	13774	259274	7.72%	0.084%
43	5.565	5.555	5.579	VV	9915	123775	3.60%	0.080%
44	5.592	5.579	5.610	VV	9893	129262	3.76%	0.084%
45	5.638	5.610	5.658	VV	30320	419274	12.19%	0.272%
46	5.671	5.658	5.687	VV	11704	158380	4.61%	0.103%
47	5.702	5.687	5.732	VV	11043	222617	6.47%	0.144%
48	5.754	5.732	5.767	VV	11667	189633	5.51%	0.123%
49	5.779	5.767	5.786	VV	11408	118111	3.43%	0.077%
50	5.808	5.786	5.844	VV	38807	738316	21.47%	0.479%
51	5.857	5.844	5.874	VV	13961	214326	6.23%	0.139%
52	5.891	5.874	5.908	VV	17490	250083	7.27%	0.162%
53	5.934	5.908	5.973	VV	45117	838177	24.38%	0.544%
54	5.996	5.973	6.024	VV	20972	396264	11.52%	0.257%
55	6.058	6.024	6.083	VV	18349	444126	12.92%	0.288%
56	6.107	6.083	6.124	VV	23140	320209	9.31%	0.208%
57	6.157	6.124	6.177	VV	29024	520223	15.13%	0.338%
58	6.210	6.177	6.231	VV	17159	461048	13.41%	0.299%
59	6.250	6.231	6.272	VV	16404	322451	9.38%	0.209%
60	6.296	6.272	6.309	VV	17567	317471	9.23%	0.206%
61	6.318	6.309	6.326	VV	15984	159341	4.63%	0.103%
62	6.343	6.326	6.368	VV	22916	435369	12.66%	0.283%
63	6.390	6.368	6.411	VV	19975	406840	11.83%	0.264%
64	6.450	6.411	6.468	VV	25947	620583	18.05%	0.403%
65	6.484	6.468	6.511	VV	26269	553900	16.11%	0.360%
66	6.530	6.511	6.554	VV	33342	624007	18.15%	0.405%
67	6.579	6.554	6.593	VV	24438	516285	15.01%	0.335%
68	6.605	6.593	6.656	VV	22455	671550	19.53%	0.436%
69	6.690	6.656	6.707	VV	24038	576823	16.77%	0.374%
70	6.752	6.707	6.768	VV	23550	677573	19.70%	0.440%
71	6.783	6.768	6.793	VV	26823	320897	9.33%	0.208%
72	6.812	6.793	6.833	VV	66284	1010333	29.38%	0.656%
73	6.845	6.833	6.871	VV	39831	663465	19.29%	0.431%
74	6.885	6.871	6.901	VV	26561	399917	11.63%	0.260%
75	6.918	6.901	6.927	VV	21764	316748	9.21%	0.206%
76	6.945	6.927	6.963	VV	30208	546728	15.90%	0.355%
77	6.985	6.963	7.035	VV	56805	1342980	39.06%	0.872%
78	7.053	7.035	7.097	VV	33557	889628	25.87%	0.577%
79	7.126	7.097	7.144	VV	32222	730499	21.24%	0.474%
80	7.190	7.144	7.209	VV	35660	1100340	32.00%	0.714%
81	7.230	7.209	7.258	VV	34210	762965	22.19%	0.495%
82	7.288	7.258	7.302	VV	31153	663092	19.28%	0.430%
83	7.313	7.302	7.352	VV	26867	638345	18.56%	0.414%
84	7.380	7.352	7.414	VV	143714	2187355	63.61%	1.420%
85	7.434	7.414	7.455	VV	37072	707963	20.59%	0.460%
86	7.479	7.455	7.498	VV	53811	905072	26.32%	0.587%
87	7.509	7.498	7.536	VV	29279	640774	18.63%	0.416%
88	7.565	7.536	7.599	VV	37488	1136352	33.05%	0.738%
89	7.609	7.599	7.628	VV	25988	416832	12.12%	0.271%

Instrument :

FID_E

ClientSampleId :

EX-11-TPH-4DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

						Instrument : FID_E		
						ClientSampleId : EX-11-TPH-4DL		
Sl. No.	Peak No.	Area	Height	Wb	Area%	Height%	Area%	Height%
90	7.654	7.628	7.678	VV	30498	778089	22.63%	0.505%
91	7.735	7.678	7.753	VV	33213	1332838	38.22%	0.518%
92	7.780	7.753	7.808	VV	56127	1261150	36.22%	0.556%
93	7.823	7.808	7.846	VV	27607	534436	19.42%	0.510%
94	7.868	7.846	7.877	VV	31366	494102	14.42%	0.449%
95	7.892	7.877	7.908	VV	38981	589149	17.42%	0.608%
Manual IntegrationsAPPROVED								
96	7.945	7.908	7.963	VV	55401	1212287	35.25%	0.787%
97	7.977	7.963	8.011	VV	32703	798433	23.22%	0.518%
98	8.036	8.011	8.056	VV	45136	856330	24.90%	0.556%
99	8.084	8.056	8.103	VV	31501	785445	22.84%	0.510%
100	8.138	8.103	8.148	VV	27810	691265	20.10%	0.449%
101	8.184	8.148	8.198	VV	35871	936396	27.23%	0.608%
102	8.216	8.198	8.258	VV	50020	1193161	34.70%	0.774%
103	8.306	8.258	8.332	VV	146441	2465208	71.69%	1.600%
104	8.355	8.332	8.378	VV	45459	977338	28.42%	0.634%
105	8.396	8.378	8.416	VV	42725	761246	22.14%	0.494%
106	8.449	8.416	8.470	VV	33818	1039039	30.22%	0.674%
107	8.484	8.470	8.515	VV	34226	854060	24.84%	0.554%
108	8.534	8.515	8.554	VV	38503	748527	21.77%	0.486%
109	8.580	8.554	8.594	VV	32353	710679	20.67%	0.461%
110	8.606	8.594	8.616	VV	31474	395532	11.50%	0.257%
111	8.642	8.616	8.713	VV	114928	2704145	78.64%	1.755%
112	8.734	8.713	8.756	VV	39202	867261	25.22%	0.563%
113	8.776	8.756	8.801	VV	35154	853903	24.83%	0.554%
114	8.818	8.801	8.826	VV	31454	424475	12.34%	0.276%
115	8.844	8.826	8.856	VV	50373	730270	21.24%	0.474%
116	8.872	8.856	8.898	VV	49036	983496	28.60%	0.638%
117	8.940	8.898	8.964	VV	85153	1693144	49.24%	1.099%
118	9.027	8.964	9.053	VV	148325	3197760	93.00%	2.076%
119	9.065	9.053	9.084	VV	31991	540934	15.73%	0.351%
120	9.104	9.084	9.126	VV	43024	818018	23.79%	0.531%
121	9.172	9.126	9.191	VV	44025	1270735	36.95%	0.825%
122	9.204	9.191	9.216	VV	31431	457044	13.29%	0.297%
123	9.249	9.216	9.274	VV	41123	1243088	36.15%	0.807%
124	9.287	9.274	9.307	VV	34418	637564	18.54%	0.414%
125	9.337	9.307	9.364	VV	34163	1061847	30.88%	0.689%
126	9.396	9.364	9.421	VV	41995	1062466	30.90%	0.690%
127	9.439	9.421	9.481	VV	30410	938146	27.28%	0.609%
128	9.518	9.481	9.531	VV	30357	767939	22.33%	0.498%
129	9.547	9.531	9.563	VV	31888	564729	16.42%	0.367%
130	9.574	9.563	9.581	VV	27415	283531	8.25%	0.184%
131	9.614	9.581	9.658	VV	37842	1342457	39.04%	0.871%
132	9.684	9.658	9.731	VV	53570	1660661	48.29%	1.078%
133	9.765	9.731	9.794	VV	48915	1301940	37.86%	0.845%
134	9.805	9.794	9.815	VV	26911	320787	9.33%	0.208%
135	9.848	9.815	9.892	VV	45645	1393311	40.52%	0.904%
136	9.928	9.892	9.982	VV	23299	1154555	33.58%	0.749%
137	10.005	9.982	10.024	VV	26496	605444	17.61%	0.393%
138	10.048	10.024	10.079	VV	42610	1067161	31.03%	0.693%
139	10.093	10.079	10.110	VV	31273	517856	15.06%	0.336%
140	10.150	10.110	10.162	VV	31021	853232	24.81%	0.554%
141	10.196	10.162	10.235	VV	31069	1169797	34.02%	0.759%

Data Summary							Instrument : FID_E	
Parameters							ClientSampled : EX-11-TPH-4DL	
Sample ID	Peak 1	Peak 2	Peak 3	Peak 4	Area	Height	Area%	Height%
142	10.264	10.235	10.282	VV	24709	642976	18.70%	0.417%
143	10.304	10.282	10.314	VV	26836	478785	13.70%	0.382%
144	10.323	10.314	10.346	VV	26848	480258	13.70%	0.382%
145	10.367	10.346	10.390	VV	28497	656663	19.00%	0.470%
Total							1294310	100.00%
Manual Integration							Reviewed By : Yogesh	
							Supervised By : Arun	
146	10.409	10.390	10.424	VV	22006	442181	12.00%	0.320%
147	10.442	10.424	10.450	VV	25531	370883	10.00%	0.270%
148	10.480	10.450	10.509	VV	131447	2265034	65.87%	1.470%
149	10.543	10.509	10.598	VV	27757	1376429	40.03%	0.893%
150	10.627	10.598	10.650	VV	35456	819444	23.83%	0.532%
Total							1294310	100.00%
151	10.670	10.650	10.695	VV	22155	554648	16.13%	0.360%
152	10.760	10.695	10.788	VV	32416	1380142	40.14%	0.896%
153	10.809	10.788	10.819	VV	31130	514624	14.97%	0.334%
154	10.828	10.819	10.867	VV	30750	800969	23.29%	0.520%
155	10.903	10.867	10.932	VV	205568	3438631	100.00%	2.232%
Total							1294310	100.00%
156	10.946	10.932	10.980	VV	32730	790022	22.97%	0.513%
157	11.026	10.980	11.052	VV	26164	1038552	30.20%	0.674%
158	11.104	11.052	11.134	VV	26640	1209338	35.17%	0.785%
159	11.168	11.134	11.189	VV	29525	841179	24.46%	0.546%
160	11.223	11.189	11.265	VV	41244	1294310	37.64%	0.840%
Total							1294310	100.00%
161	11.311	11.265	11.336	VV	25875	957987	27.86%	0.622%
162	11.359	11.336	11.376	VV	25074	567360	16.50%	0.368%
163	11.387	11.376	11.415	VV	24147	548984	15.97%	0.356%
164	11.481	11.415	11.514	VV	25861	1415255	41.16%	0.919%
165	11.528	11.514	11.546	VV	26642	473475	13.77%	0.307%
Total							1294310	100.00%
166	11.557	11.546	11.573	VV	23262	361127	10.50%	0.234%
167	11.624	11.573	11.658	VV	125187	2519120	73.26%	1.635%
168	11.687	11.658	11.712	VV	24409	705872	20.53%	0.458%
169	11.730	11.712	11.751	VV	22760	475165	13.82%	0.308%
170	11.804	11.751	11.866	VV	28231	1588625	46.20%	1.031%
Total							1294310	100.00%
171	11.901	11.866	11.919	VV	22042	622046	18.09%	0.404%
172	11.930	11.919	11.953	VV	20724	396196	11.52%	0.257%
173	11.974	11.953	12.003	VV	20572	573943	16.69%	0.373%
174	12.037	12.003	12.066	VV	22797	788488	22.93%	0.512%
175	12.086	12.066	12.121	VV	23572	691203	20.10%	0.449%
Total							1294310	100.00%
176	12.181	12.121	12.252	VV	44481	1886158	54.85%	1.224%
177	12.273	12.252	12.289	VV	19179	392528	11.42%	0.255%
178	12.311	12.289	12.376	VV	22568	999964	29.08%	0.649%
179	12.403	12.376	12.450	VV	19242	763640	22.21%	0.496%
180	12.472	12.450	12.484	VV	16796	337065	9.80%	0.219%
Total							1294310	100.00%
181	12.498	12.484	12.533	VV	16794	462496	13.45%	0.300%
182	12.558	12.533	12.575	VV	15637	381272	11.09%	0.247%
183	12.592	12.575	12.608	VV	15014	288207	8.38%	0.187%
184	12.627	12.608	12.659	VV	14958	434689	12.64%	0.282%
185	12.706	12.659	12.738	VV	17036	716098	20.83%	0.465%
Total							1294310	100.00%
186	12.762	12.738	12.820	VV	22251	799994	23.26%	0.519%
187	12.843	12.820	12.915	VV	19520	798000	23.21%	0.518%
188	12.949	12.915	12.967	VV	14560	410716	11.94%	0.267%
189	12.985	12.967	13.021	VV	15133	411248	11.96%	0.267%
190	13.034	13.021	13.051	VV	10778	191553	5.57%	0.124%
Total							1294310	100.00%
191	13.064	13.051	13.078	VV	10190	157610	4.58%	0.102%
192	13.117	13.078	13.151	VV	11445	450605	13.10%	0.292%
193	13.168	13.151	13.244	VV	11324	538348	15.66%	0.349%
194	13.288	13.244	13.312	VV	29981	634970	18.47%	0.412%

Manual IntegrationsAPPROVED

						Instrument : FID_E ClientSampleId : EX-11-TPH-4DL		
rteres						Manual IntegrationsAPPROVED		
195	13.337	13.312	13.368	VV	19996	487567	14.18%	0.316%
196	13.385	13.368	13.437	VV	10596	375047	10.79%	0.241%
197	13.457	13.437	13.468	VV	8190	137414	13.30%	0.297%
198	13.500	13.468	13.531	VV	9255	301497	17.64%	0.394%
199	13.552	13.531	13.601	VV	7982	306667	8.47%	0.189%
200	13.622	13.609	13.652	VV	10030	239432	5.72%	0.128%
201	13.676	13.654	13.711	VV	14292	371133	10.79%	0.241%
202	13.727	13.713	13.800	VV	9898	457208	13.30%	0.297%
203	13.864	13.801	13.918	VV	10267	606461	17.64%	0.394%
204	13.948	13.919	13.972	VV	11188	291288	8.47%	0.189%
205	13.986	13.974	14.020	VV	7621	196728	5.72%	0.128%
206	14.036	14.021	14.068	VV	8773	204555	5.95%	0.133%
207	14.114	14.068	14.152	VV	7377	340094	9.89%	0.221%
208	14.179	14.154	14.218	VV	8128	266038	7.74%	0.173%
209	14.272	14.219	14.301	VV	11215	389195	11.32%	0.253%
210	14.339	14.302	14.379	VV	7139	286119	8.32%	0.186%
211	14.420	14.381	14.465	VV	7552	315883	9.19%	0.205%
212	14.544	14.476	14.602	VV	7448	421787	12.27%	0.274%
213	14.723	14.612	14.793	VV	8085	573617	16.68%	0.372%
214	14.849	14.800	14.926	VV	6536	366544	10.66%	0.238%
215	14.980	14.933	15.027	VV	5984	242707	7.06%	0.158%
216	15.045	15.030	15.110	VV	4597	186419	5.42%	0.121%
217	15.135	15.123	15.237	VV	5169	292952	8.52%	0.190%
218	15.277	15.238	15.322	VV	5555	203736	5.92%	0.132%
219	15.392	15.323	15.417	VV	4584	214204	6.23%	0.139%
220	15.467	15.419	15.531	VV	4476	255472	7.43%	0.166%
221	15.569	15.533	15.638	VV	4615	245424	7.14%	0.159%
222	15.681	15.639	15.745	VV	6167	313040	9.10%	0.203%
223	15.918	15.746	15.937	VV	4871	448745	13.05%	0.291%
224	15.965	15.944	16.092	VV	6913	428560	12.46%	0.278%
225	16.194	16.092	16.257	VV	5875	462949	13.46%	0.300%
226	16.270	16.257	16.444	VV	6120	505606	14.70%	0.328%
227	16.474	16.445	16.569	VV	7066	414877	12.07%	0.269%
228	16.638	16.572	16.667	VV	6458	302546	8.80%	0.196%
229	16.751	16.675	16.773	VV	4536	254751	7.41%	0.165%
230	16.827	16.778	16.885	VV	6311	318227	9.25%	0.207%
231	16.966	16.886	17.017	VV	4670	313531	9.12%	0.203%
232	17.115	17.021	17.156	VV	5288	278239	8.09%	0.181%
233	17.199	17.165	17.268	VV	2269	87847	2.55%	0.057%
234	17.345	17.291	17.386	VV	2915	74689	2.17%	0.048%
235	17.422	17.386	17.444	PV	958	14731	0.43%	0.010%
236	17.520	17.444	17.540	VV	1736	55440	1.61%	0.036%
237	17.561	17.540	17.606	VV	2111	41534	1.21%	0.027%
238	17.630	17.606	17.648	PV	949	13757	0.40%	0.009%
239	17.673	17.648	17.708	VV	2434	49324	1.43%	0.032%
240	17.720	17.708	17.736	VV	551	7928	0.23%	0.005%
241	17.756	17.736	17.778	VV	820	13892	0.40%	0.009%
242	17.841	17.778	17.861	VV	850	19994	0.58%	0.013%
243	17.929	17.861	17.947	VV	2507	85669	2.49%	0.056%
244	17.992	17.947	18.018	VV	4851	117060	3.40%	0.076%
245	18.035	18.018	18.051	VV	1632	26629	0.77%	0.017%
246	18.065	18.051	18.075	VV	1462	18491	0.54%	0.012%

Chromatogram Data									
Peak No.	Retention Time (min)	Area	Height	Width	Volume	Concentration (%)	Response	Integration	Integration
247	18.135	18.075	18.211	VV	6533	234175	6.81%	0.152%	
248	18.229	18.211	18.247	VV	1666	31611			
249	18.280	18.247	18.304	VV	2228	60502			
250	18.341	18.304	18.353	VV	3100	68735			
251	18.362	18.353	18.394	VV	2996	57358			
252	18.417	18.394	18.438	VV	3747	66700			
253	18.502	18.438	18.558	VV	7693	179322	5.21%	0.116%	
254	18.570	18.558	18.594	VV	874	9050	0.26%	0.006%	
255	18.662	18.594	18.671	VV	1055	22223	0.65%	0.014%	
256	18.697	18.671	18.751	VV	1293	31077	0.90%	0.020%	
257	18.826	18.751	18.860	PV	3738	66615	1.94%	0.043%	
258	18.925	18.860	18.947	PV	3076	49641	1.44%	0.032%	
259	18.974	18.947	18.994	VV	2717	52894	1.54%	0.034%	
260	19.025	18.994	19.044	VV	2694	67902	1.97%	0.044%	
261	19.110	19.044	19.124	VV	2835	113139	3.29%	0.073%	
262	19.136	19.124	19.145	VV	2083	24154	0.70%	0.016%	
263	19.155	19.145	19.164	VV	1731	18687	0.54%	0.012%	
264	19.224	19.164	19.279	VV	5197	175115	5.09%	0.114%	
265	19.329	19.279	19.344	VV	2210	63027	1.83%	0.041%	
266	19.432	19.344	19.447	VV	4101	186693	5.43%	0.121%	
267	19.539	19.447	19.546	VV	4597	257650	7.49%	0.167%	
268	19.613	19.546	19.673	VV	9117	490791	14.27%	0.319%	
269	19.727	19.673	19.766	VV	5477	266516	7.75%	0.173%	
270	19.988	19.766	20.003	VV	10376	843116	24.52%	0.547%	
271	20.029	20.003	20.065	VV	10983	374660	10.90%	0.243%	
272	20.304	20.065	20.318	VV	15140	1899575	55.24%	1.233%	
273	20.350	20.318	20.366	VV	16369	456639	13.28%	0.296%	
274	20.417	20.366	20.479	VV	18149	1110453	32.29%	0.721%	
275	20.521	20.479	20.539	VV	15054	533043	15.50%	0.346%	
276	20.709	20.539	20.732	VV	24546	2112427	61.43%	1.371%	
277	20.751	20.732	20.773	VV	23989	591875	17.21%	0.384%	
278	20.788	20.773	20.829	VV	23679	777135	22.60%	0.504%	
279	20.864	20.829	20.874	VV	22349	604177	17.57%	0.392%	
Sum of corrected areas:					154070090				

Instrument :
FID_E
ClientSampleId :
EX-11-TPH-4DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Aliphatic EPH 110724.M Tue Nov 12 05:32:14 2024