

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101625\
 Data File : BF143980.D
 Acq On : 16 Oct 2025 15:40
 Operator : RC/JU
 Sample : Q3345-06
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 M-R-SOIL

Quant Time: Oct 16 16:21:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

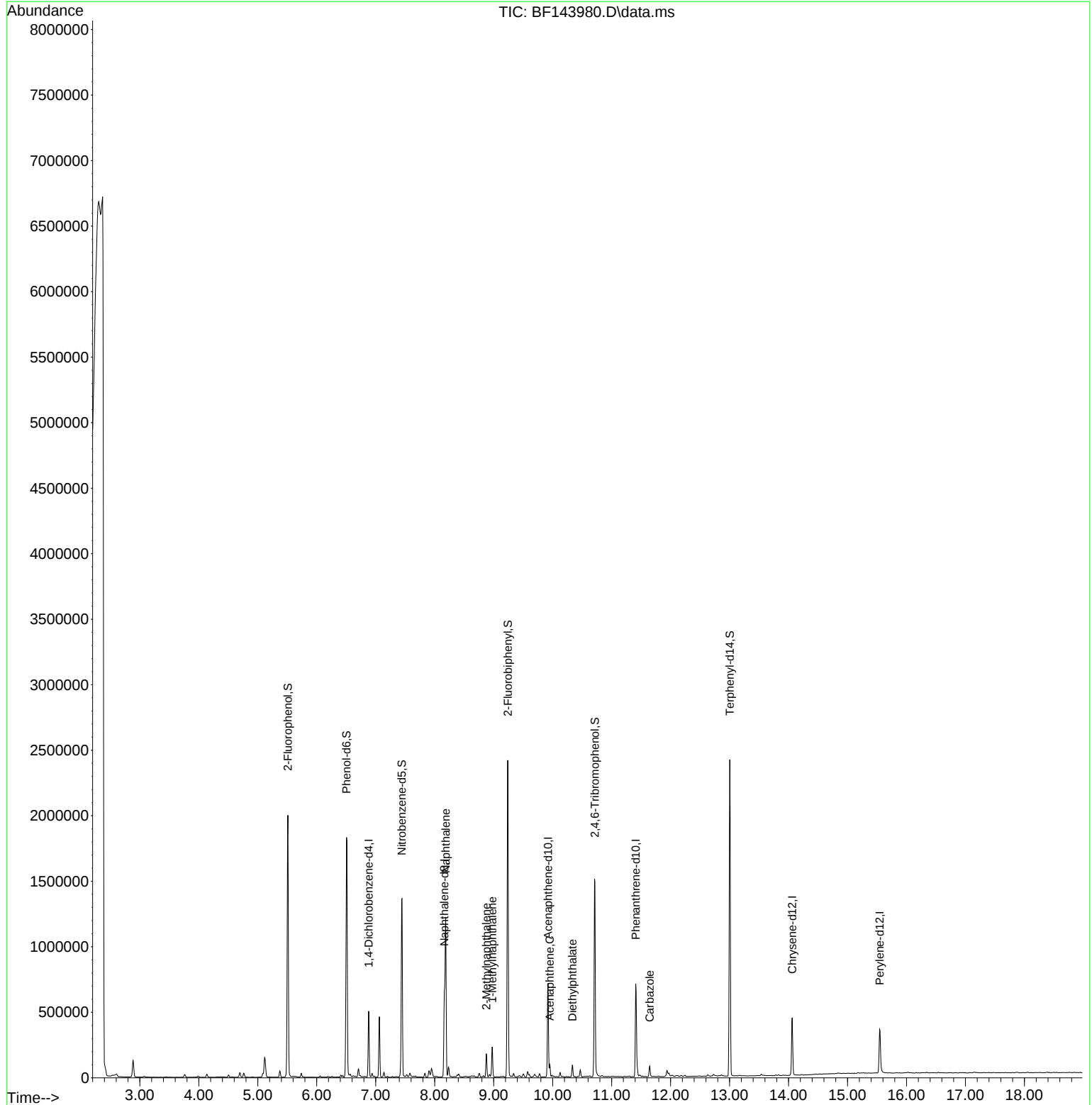
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	103829	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	390280	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	217679	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	378636	20.000	ng	0.00
76) Chrysene-d12	14.063	240	219096	20.000	ng	0.00
86) Perylene-d12	15.545	264	234984	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	790752	120.940	ng	0.01
7) Phenol-d6	6.504	99	876945	112.523	ng	-0.01
23) Nitrobenzene-d5	7.440	82	616690	96.000	ng	-0.02
42) 2,4,6-Tribromophenol	10.716	330	319815	147.508	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1154932	84.187	ng	-0.01
79) Terphenyl-d14	13.004	244	1305435	101.832	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.187	128	737459	41.539	ng	100
37) 2-Methylnaphthalene	8.875	142	66898	5.657	ng	98
38) 1-Methylnaphthalene	8.975	142	82790	7.217	ng	95
52) Acenaphthene	9.951	154	26575	2.401	ng	98
60) Diethylphthalate	10.333	149	46739	3.639	ng	97
73) Carbazole	11.645	167	50357	3.066	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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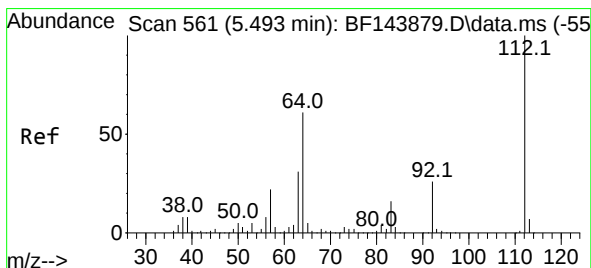
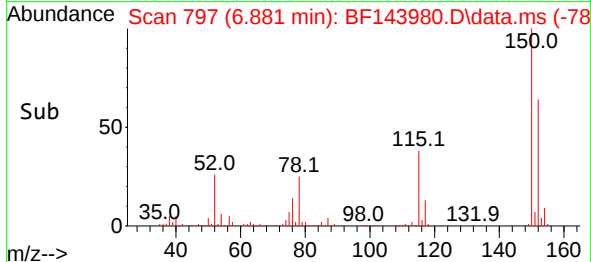
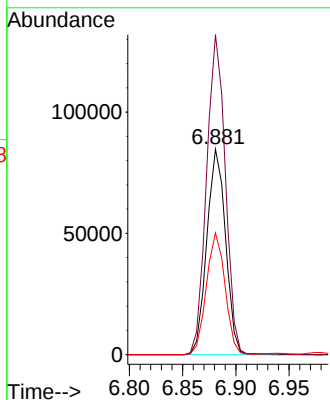
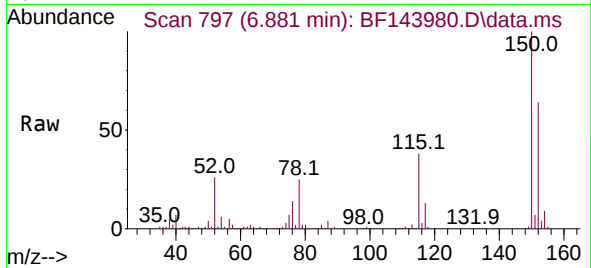




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143980.D
Acq: 16 Oct 2025 15:40

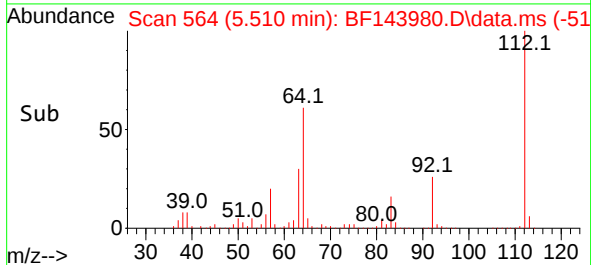
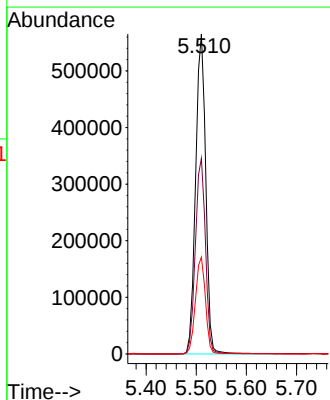
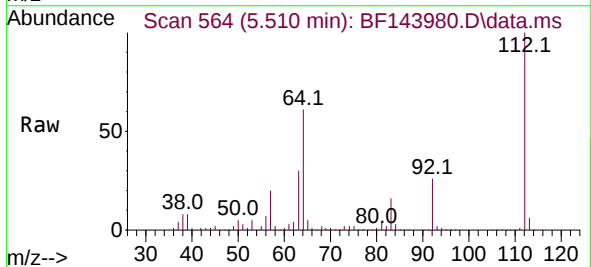
Instrument :
BNA_F
ClientSampleId :
M-R-SOIL

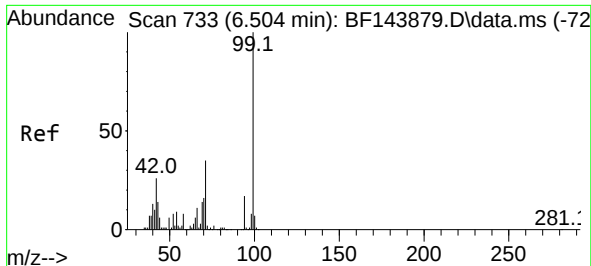
Tgt Ion:152 Resp: 103829
Ion Ratio Lower Upper
152 100
150 155.9 124.4 186.6
115 59.3 48.1 72.1



#5
2-Fluorophenol
Concen: 120.940 ng
RT: 5.510 min Scan# 564
Delta R.T. 0.012 min
Lab File: BF143980.D
Acq: 16 Oct 2025 15:40

Tgt Ion:112 Resp: 790752
Ion Ratio Lower Upper
112 100
64 61.1 49.1 73.7
63 30.2 24.5 36.7

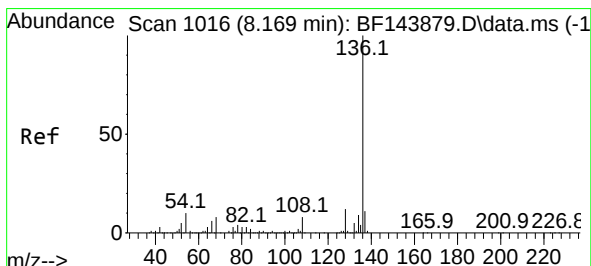
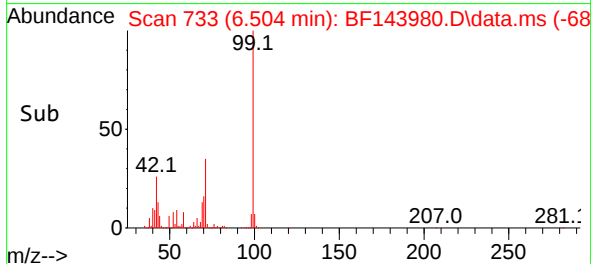
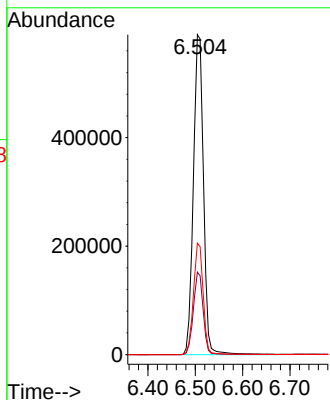
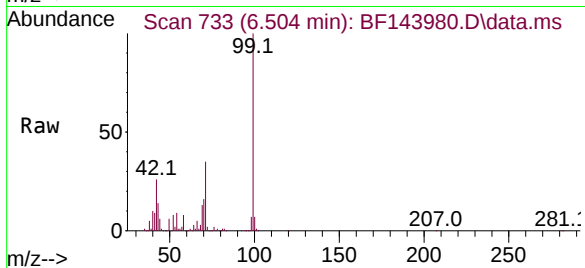




#7
Phenol-d6
Concen: 112.523 ng
RT: 6.504 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF143980.D
Acq: 16 Oct 2025 15:40

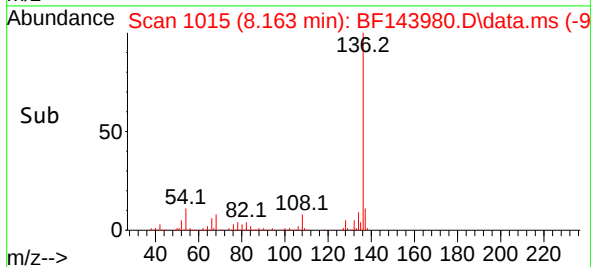
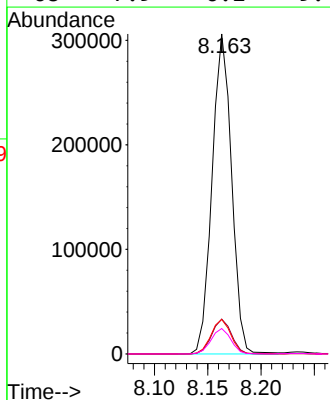
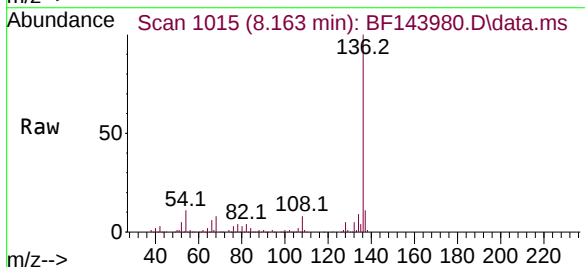
Instrument :
BNA_F
ClientSampleId :
M-R-SOIL

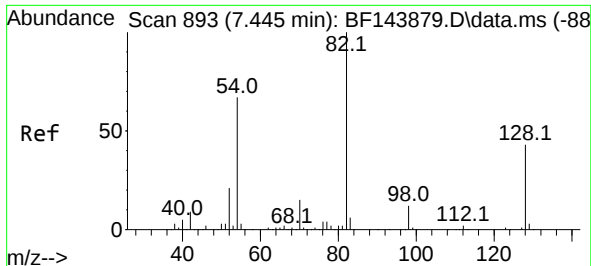
Tgt Ion:	99	Resp:	876945
Ion	Ratio	Lower	Upper
99	100		
42	25.8	21.0	31.4
71	34.8	27.8	41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143980.D
Acq: 16 Oct 2025 15:40

Tgt Ion:	136	Resp:	390280
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	10.8	8.2	12.4
68	7.9	6.2	9.4





#23

Nitrobenzene-d5

Concen: 96.000 ng

RT: 7.440 min Scan# 893

Delta R.T. -0.017 min

Lab File: BF143980.D

Acq: 16 Oct 2025 15:40

Instrument :

BNA_F

ClientSampleId :

M-R-SOIL

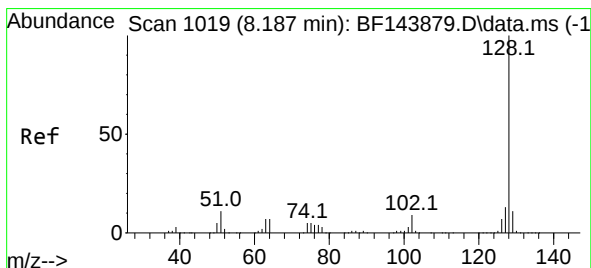
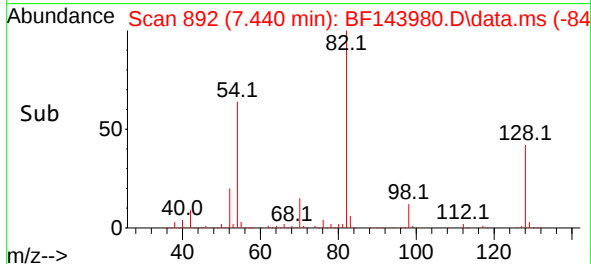
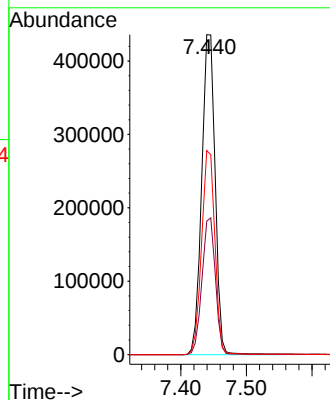
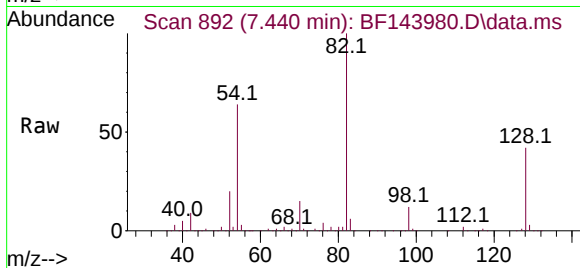
Tgt Ion: 82 Resp: 616690

Ion Ratio Lower Upper

82 100

128 41.7 34.0 51.0

54 63.8 53.2 79.8



#31

Naphthalene

Concen: 41.539 ng

RT: 8.187 min Scan# 1019

Delta R.T. -0.006 min

Lab File: BF143980.D

Acq: 16 Oct 2025 15:40

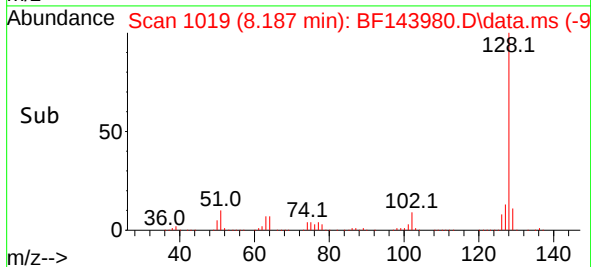
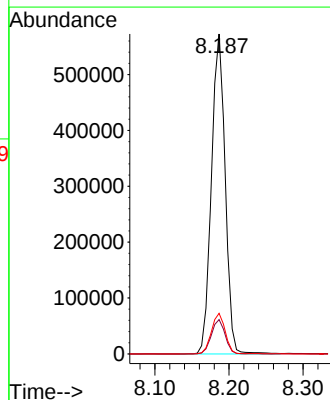
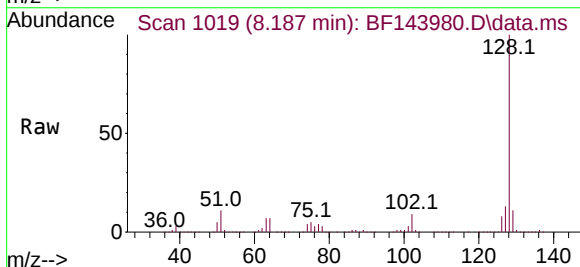
Tgt Ion:128 Resp: 737459

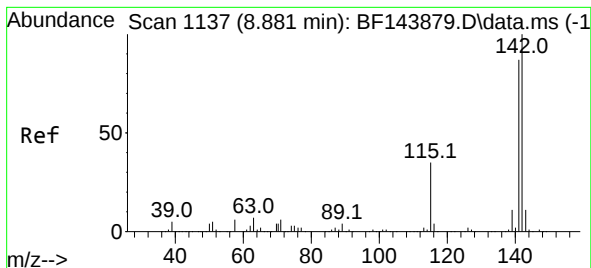
Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

127 12.7 10.0 15.0

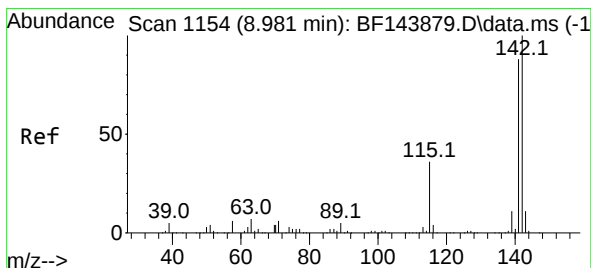
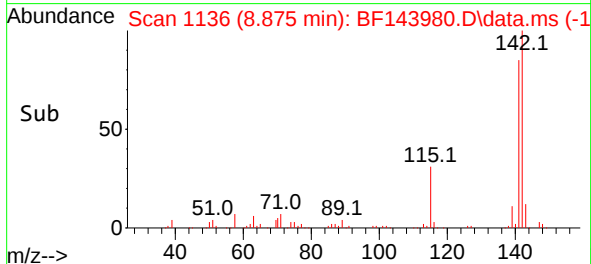
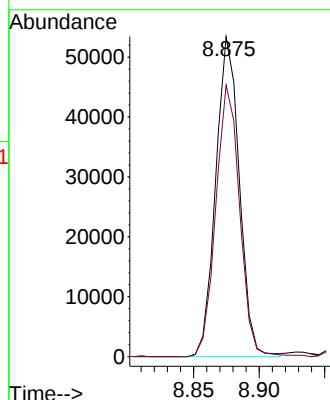
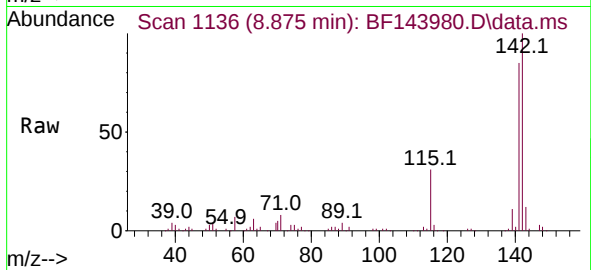




#37
2-Methylnaphthalene
Concen: 5.657 ng
RT: 8.875 min Scan# 1136
Delta R.T. -0.012 min
Lab File: BF143980.D
Acq: 16 Oct 2025 15:40

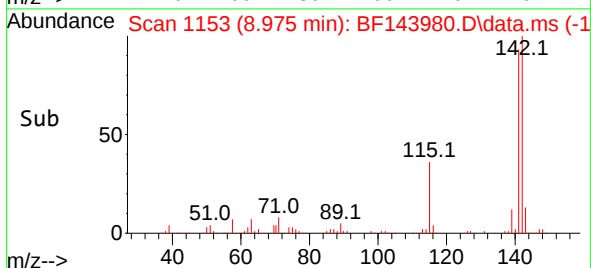
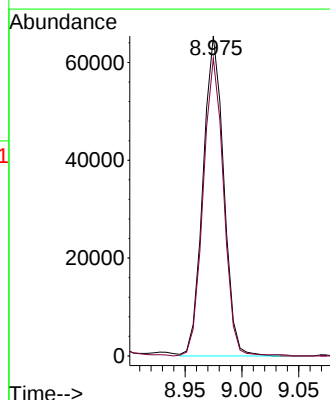
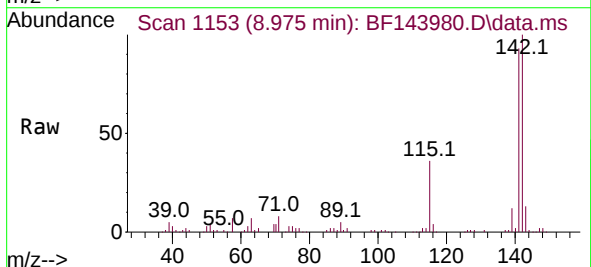
Instrument :
BNA_F
ClientSampleId :
M-R-SOIL

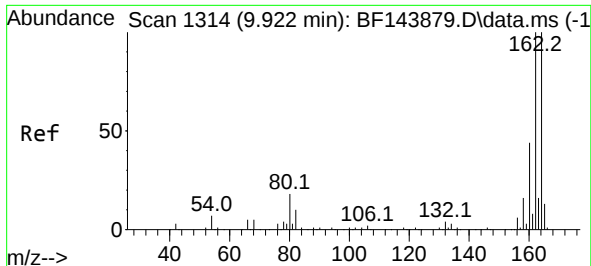
Tgt Ion:142 Resp: 66898
Ion Ratio Lower Upper
142 100
141 84.8 69.2 103.8



#38
1-Methylnaphthalene
Concen: 7.217 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.011 min
Lab File: BF143980.D
Acq: 16 Oct 2025 15:40

Tgt Ion:142 Resp: 82790
Ion Ratio Lower Upper
142 100
141 93.0 70.8 106.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BF143980.D

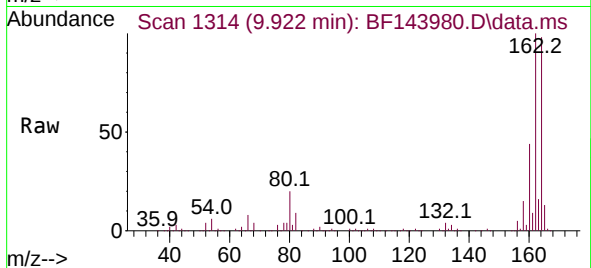
Acq: 16 Oct 2025 15:40

Instrument :

BNA_F

ClientSampleId :

M-R-SOIL



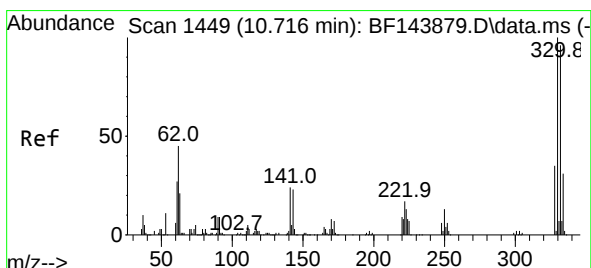
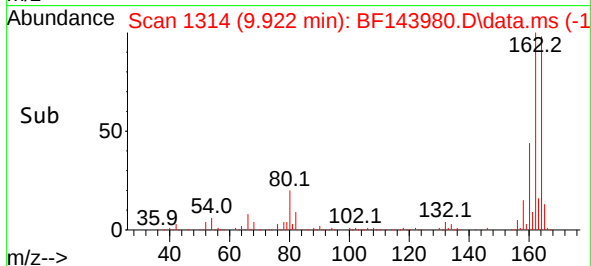
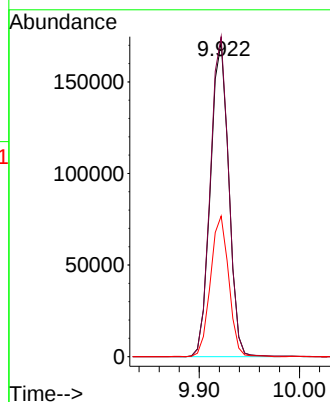
Tgt Ion:164 Resp: 217679

Ion Ratio Lower Upper

164 100

162 101.7 80.2 120.2

160 44.7 35.4 53.0



#42

2,4,6-Tribromophenol

Concen: 147.508 ng

RT: 10.716 min Scan# 1449

Delta R.T. -0.006 min

Lab File: BF143980.D

Acq: 16 Oct 2025 15:40

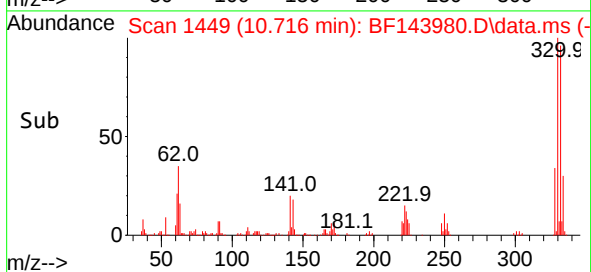
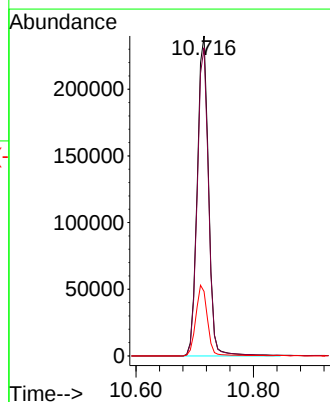
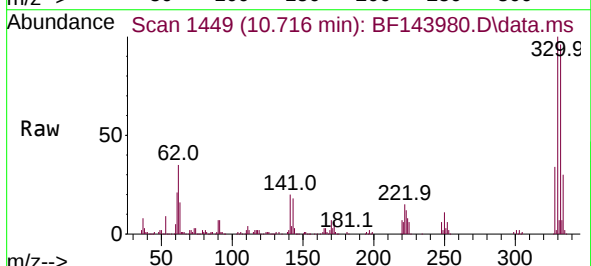
Tgt Ion:330 Resp: 319815

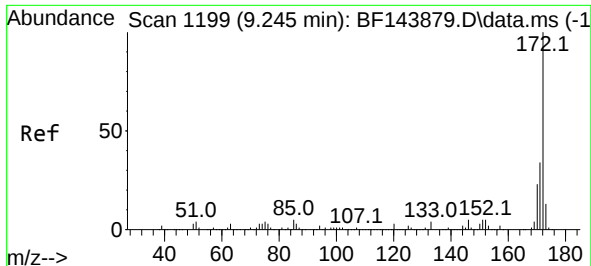
Ion Ratio Lower Upper

330 100

332 96.3 76.9 115.3

141 22.6 20.2 30.4





#45

2-Fluorobiphenyl

Concen: 84.187 ng

RT: 9.239 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF143980.D

Acq: 16 Oct 2025 15:40

Instrument :

BNA_F

ClientSampleId :

M-R-SOIL

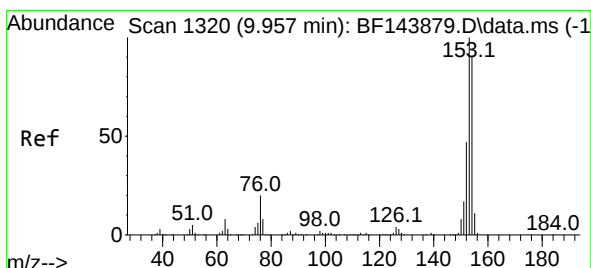
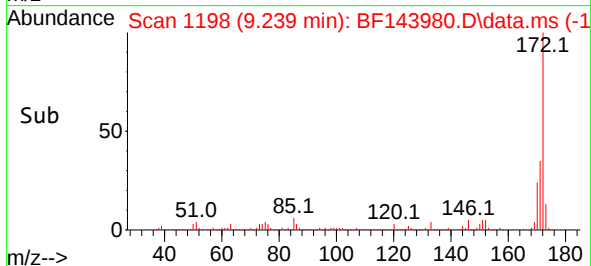
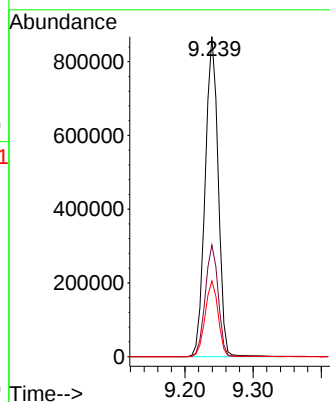
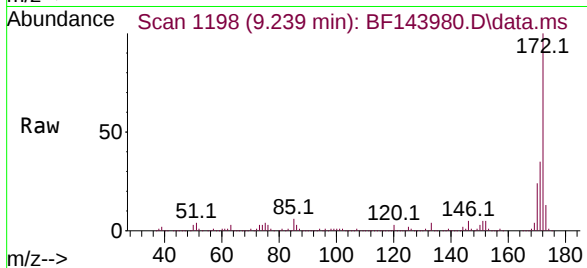
Tgt Ion:172 Resp: 1154932

Ion Ratio Lower Upper

172 100

171 34.9 27.4 41.0

170 23.6 18.6 28.0



#52

Acenaphthene

Concen: 2.401 ng

RT: 9.951 min Scan# 1319

Delta R.T. -0.012 min

Lab File: BF143980.D

Acq: 16 Oct 2025 15:40

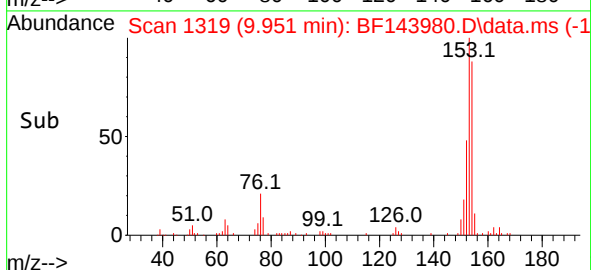
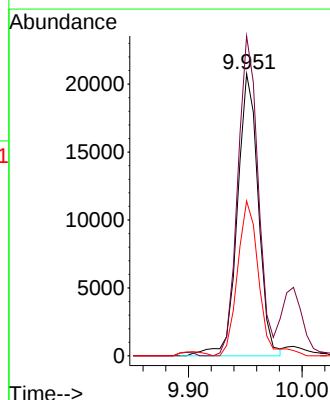
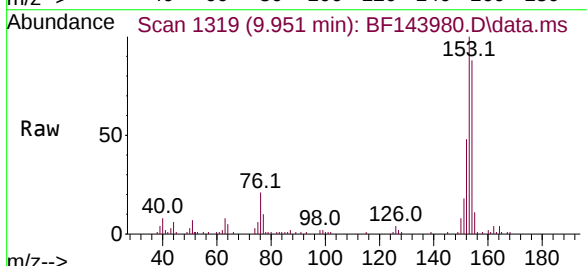
Tgt Ion:154 Resp: 26575

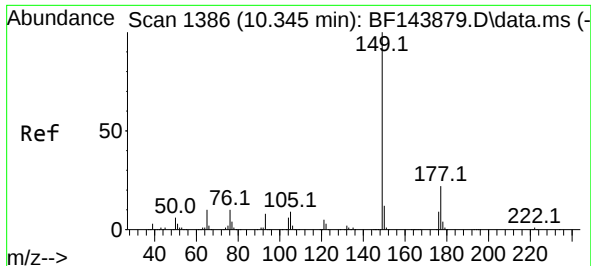
Ion Ratio Lower Upper

154 100

153 113.4 89.3 133.9

152 54.9 42.2 63.2

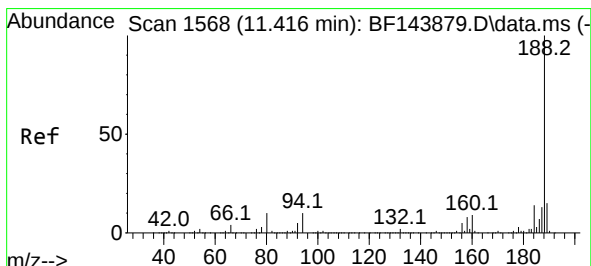
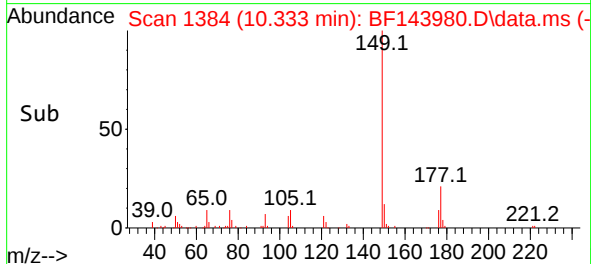
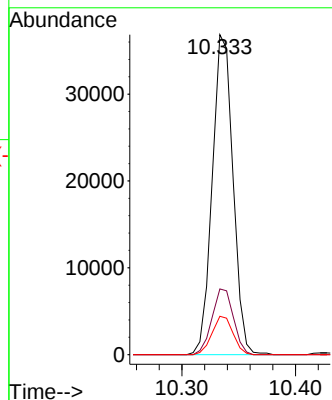
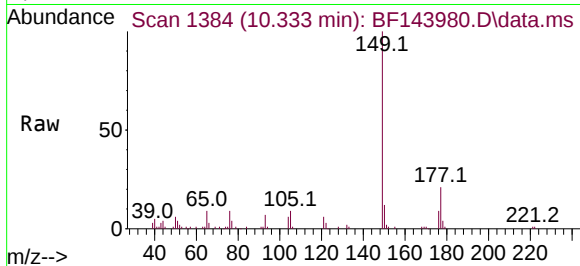




#60
Diethylphthalate
Concen: 3.639 ng
RT: 10.333 min Scan# 1384
Delta R.T. -0.018 min
Lab File: BF143980.D
Acq: 16 Oct 2025 15:40

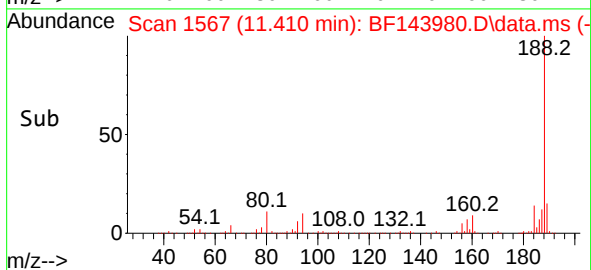
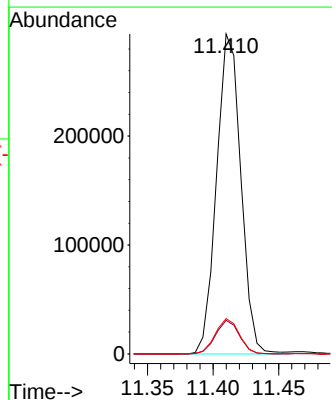
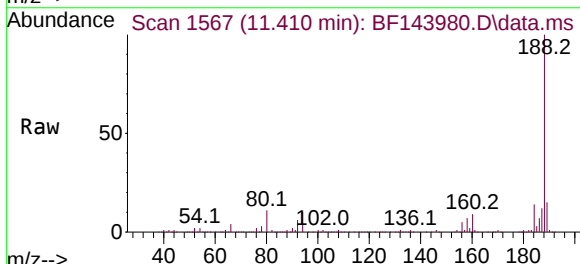
Instrument :
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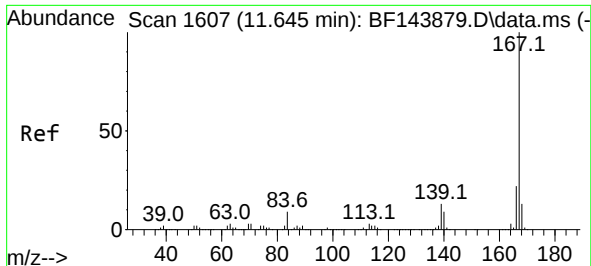
Tgt Ion:149 Resp: 46739
Ion Ratio Lower Upper
149 100
177 20.6 17.9 26.9
150 12.0 9.8 14.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143980.D
Acq: 16 Oct 2025 15:40

Tgt Ion:188 Resp: 378636
Ion Ratio Lower Upper
188 100
94 10.5 7.8 11.6
80 11.0 7.9 11.9

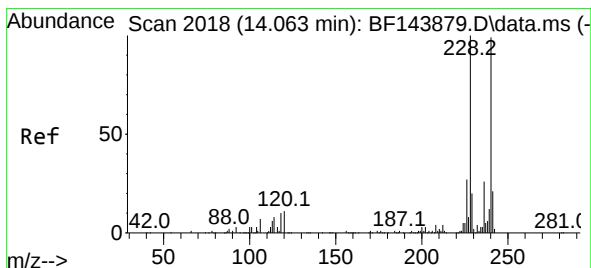
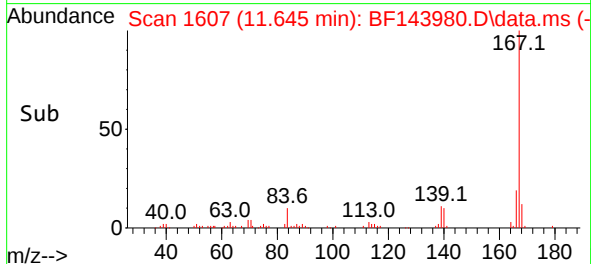
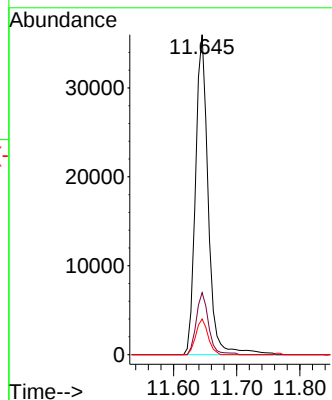
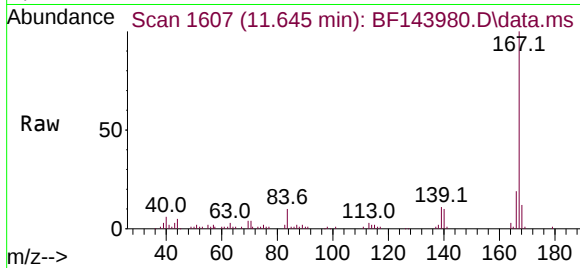




#73
 Carbazole
 Concen: 3.066 ng
 RT: 11.645 min Scan# 1607
 Delta R.T. -0.006 min
 Lab File: BF143980.D
 Acq: 16 Oct 2025 15:40

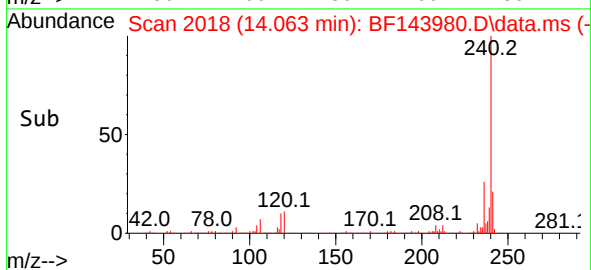
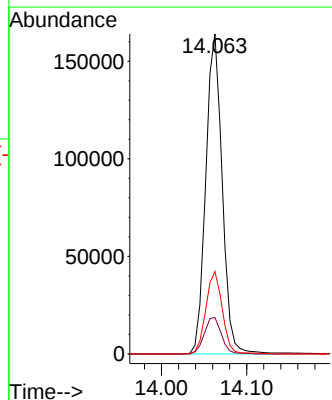
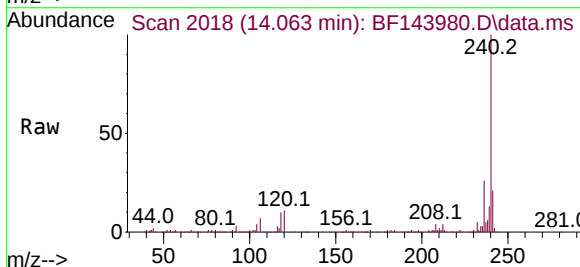
Instrument :
 BNA_F
 ClientSampleId :
 M-R-SOIL

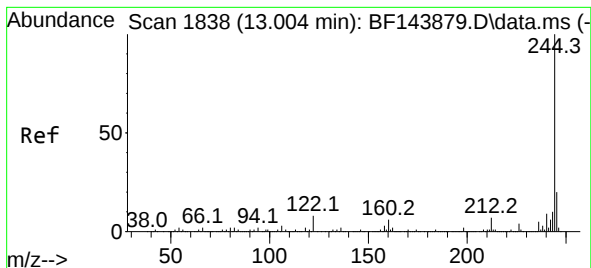
Tgt Ion:167 Resp: 50357
 Ion Ratio Lower Upper
 167 100
 166 19.4 17.2 25.8
 139 11.1 10.1 15.1



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.063 min Scan# 2018
 Delta R.T. -0.005 min
 Lab File: BF143980.D
 Acq: 16 Oct 2025 15:40

Tgt Ion:240 Resp: 219096
 Ion Ratio Lower Upper
 240 100
 120 11.4 8.6 13.0
 236 25.7 21.1 31.7





#79

Terphenyl-d14

Concen: 101.832 ng

RT: 13.004 min Scan# 1838

Delta R.T. -0.006 min

Lab File: BF143980.D

Acq: 16 Oct 2025 15:40

Instrument :

BNA_F

ClientSampleId :

M-R-SOIL

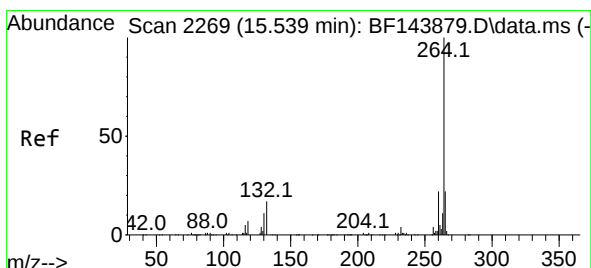
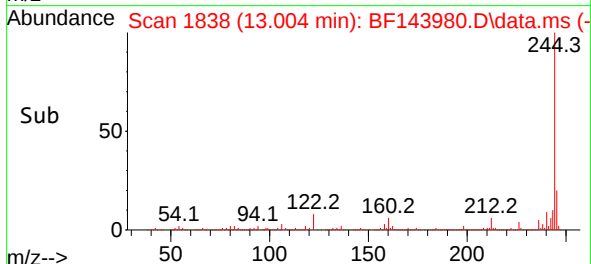
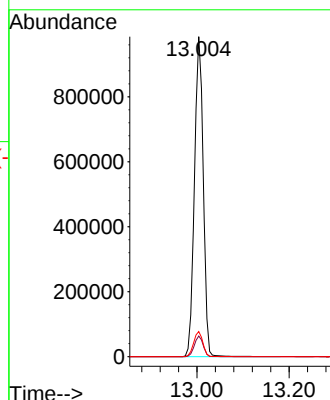
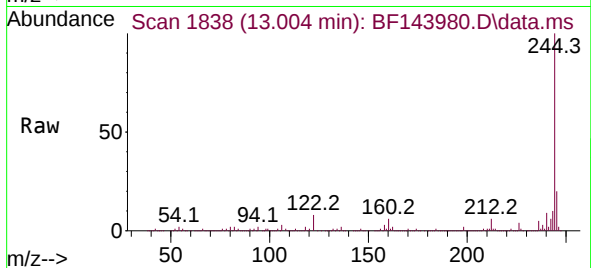
Tgt Ion:244 Resp: 1305435

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

122 7.8 6.4 9.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BF143980.D

Acq: 16 Oct 2025 15:40

Tgt Ion:264 Resp: 234984

Ion Ratio Lower Upper

264 100

260 21.6 17.8 26.8

265 21.1 17.5 26.3

