

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032125\
 Data File : BF142035.D
 Acq On : 21 Mar 2025 17:50
 Operator : RC/JU
 Sample : Q1610-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

Quant Time: Mar 21 18:15:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

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

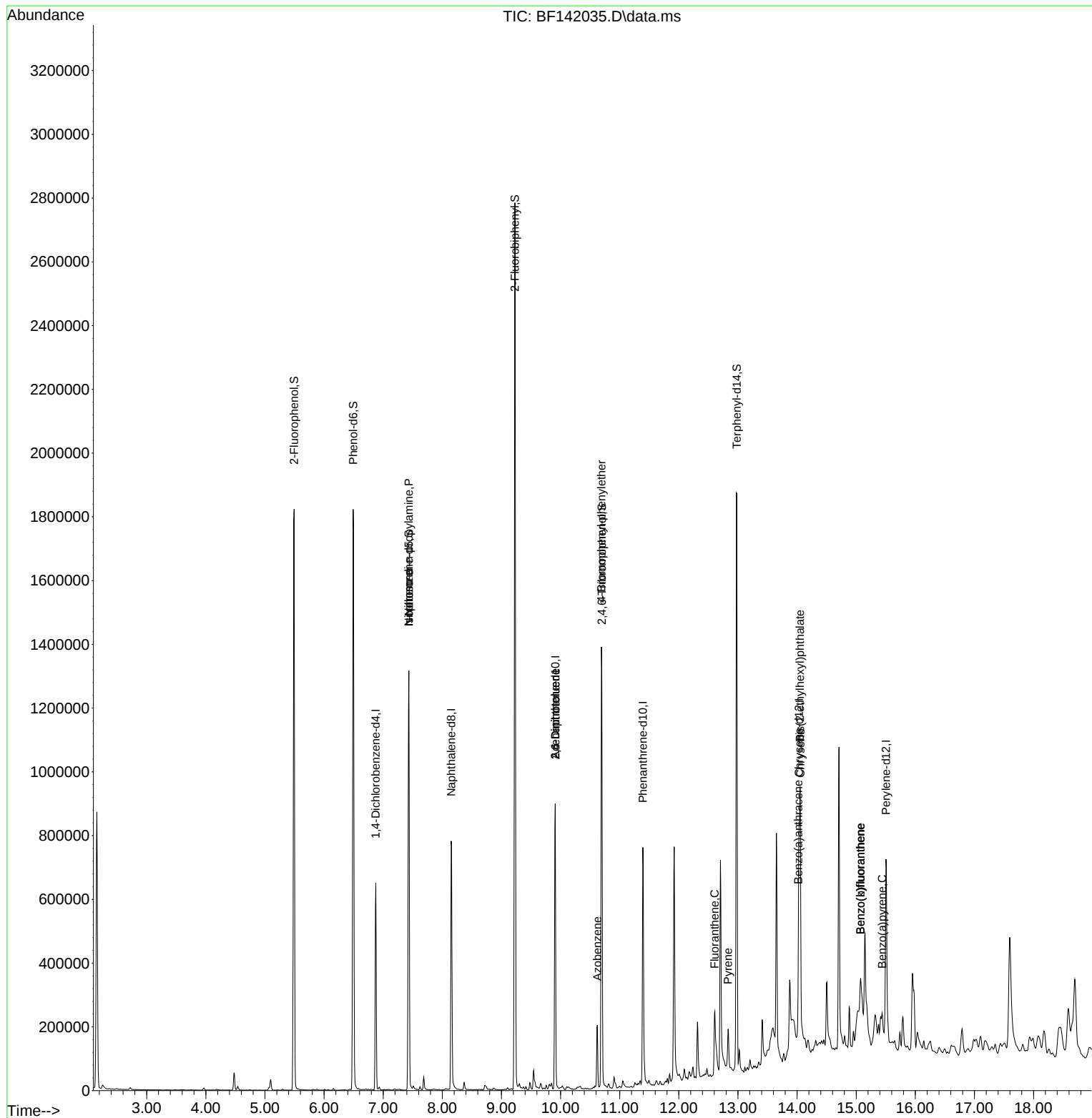
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	138826	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	530479	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	270306	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	387223	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	291241	20.000	ng	0.00
86) Perylene-d12	15.504	264	329187	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	720621	86.633	ng	0.00
7) Phenol-d6	6.492	99	900453	85.022	ng	-0.01
23) Nitrobenzene-d5	7.434	82	600354	63.689	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	255485	74.503	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1206077	67.857	ng	-0.01
79) Terphenyl-d14	12.980	244	945574	48.001	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.434	70	84319	12.390	ng	# 75
25) Isophorone	7.434	82	591954	35.526	ng	# 64
51) 2,6-Dinitrotoluene	9.910	165	34973	8.874	ng	# 23
57) 2,4-Dinitrotoluene	9.910	165	34973	6.794	ng	# 24
63) Azobenzene	10.622	77	51139	2.914	ng	# 1
67) 4-Bromophenyl-phenylether	10.692	248	15908	3.271	ng	# 1
75) Fluoranthene	12.604	202	85998	3.876	ng	98
78) Pyrene	12.833	202	69987	2.778	ng	98
81) Benzo(a)anthracene	14.021	228	43276	2.264	ng	100
83) Chrysene	14.057	228	42146	2.433	ng	97
84) Bis(2-ethylhexyl)phtha...	14.051	149	353104	25.972	ng	# 98
88) Benzo(b)fluoranthene	15.074	252	100179	4.440	ng	# 97
89) Benzo(k)fluoranthene	15.074	252	100179	5.189	ng	97
90) Benzo(a)pyrene	15.439	252	47068	2.666	ng	# 91

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

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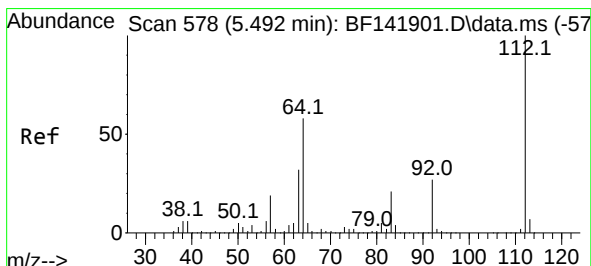
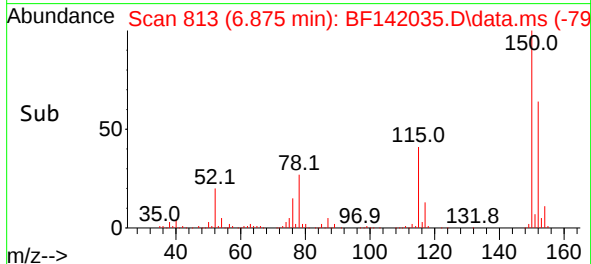
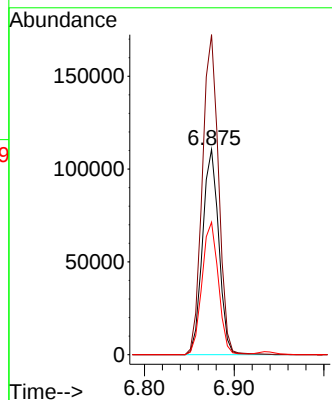
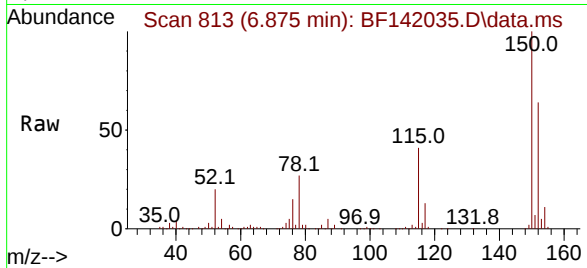




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

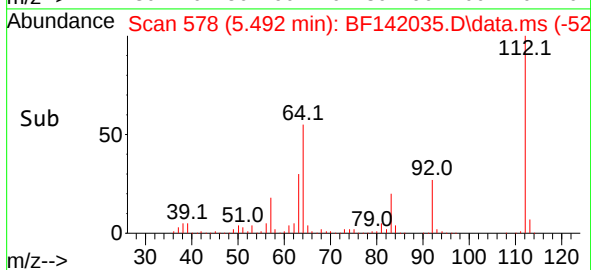
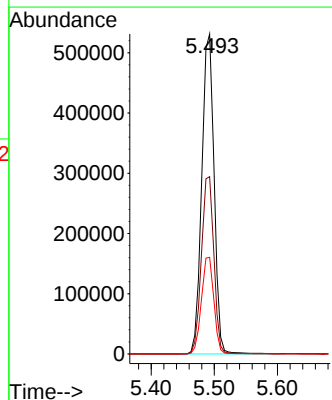
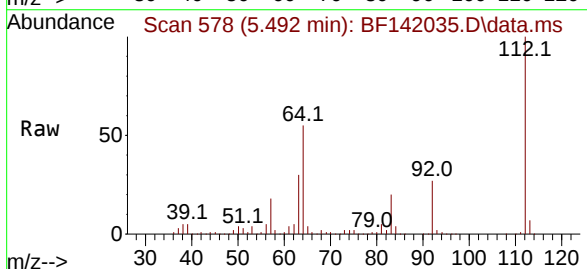
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

Tgt Ion:152 Resp: 138826
Ion Ratio Lower Upper
152 100
150 155.9 127.4 191.2
115 64.5 51.9 77.9



#5
2-Fluorophenol
Concen: 86.633 ng
RT: 5.492 min Scan# 578
Delta R.T. 0.000 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

Tgt Ion:112 Resp: 720621
Ion Ratio Lower Upper
112 100
64 55.4 46.5 69.7
63 30.2 25.4 38.2

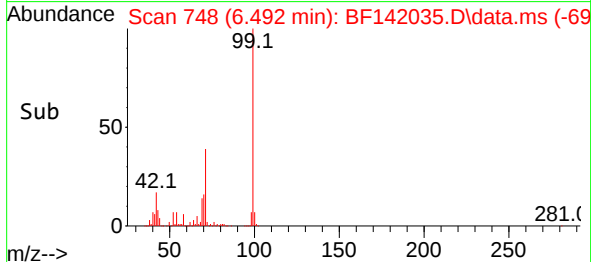
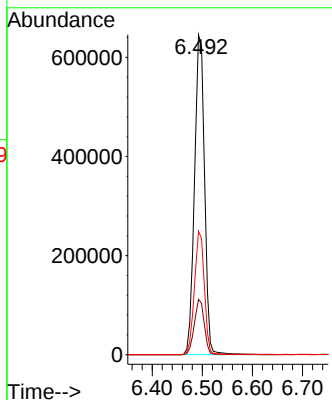
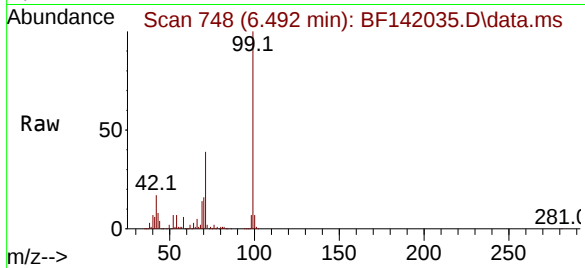




#7
Phenol-d6
Concen: 85.022 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

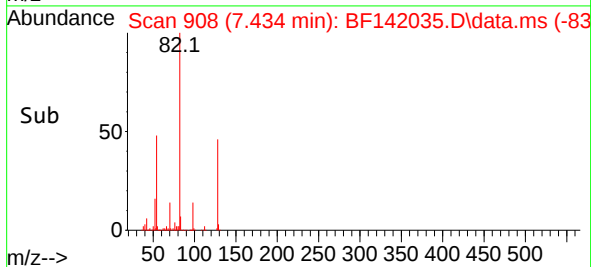
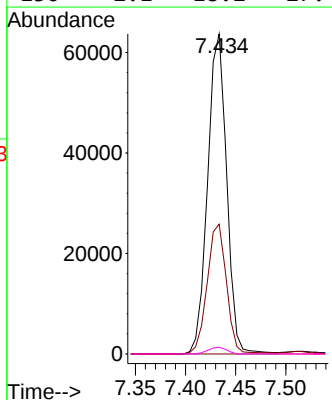
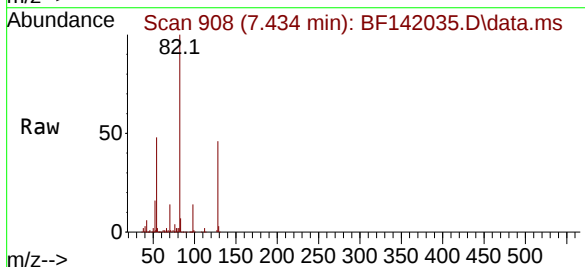
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

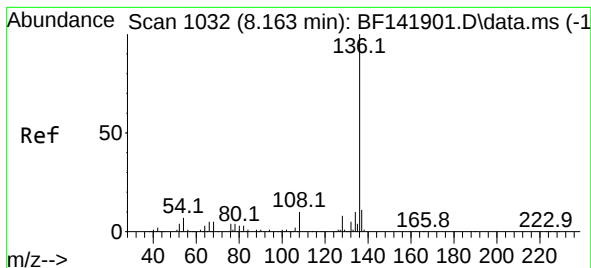
Tgt Ion: 99 Resp: 900453
Ion Ratio Lower Upper
99 100
42 17.3 14.6 21.8
71 38.6 30.8 46.2



#19
n-Nitroso-di-n-propylamine
Concen: 12.390 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.135 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

Tgt Ion: 70 Resp: 84319
Ion Ratio Lower Upper
70 100
42 40.6 41.4 62.0#
101 0.0 8.2 12.2#
130 2.1 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.151 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

Tgt Ion:136 Resp: 530479

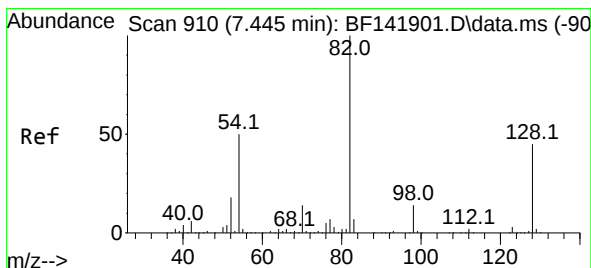
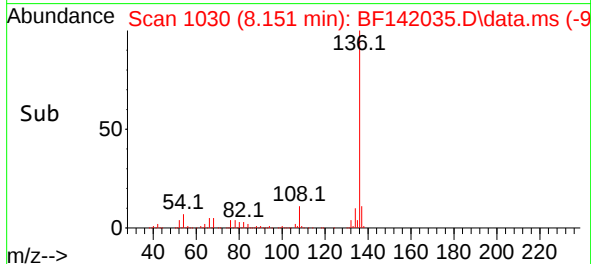
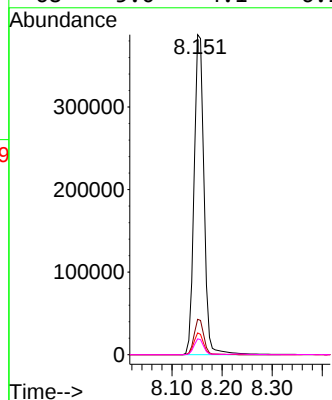
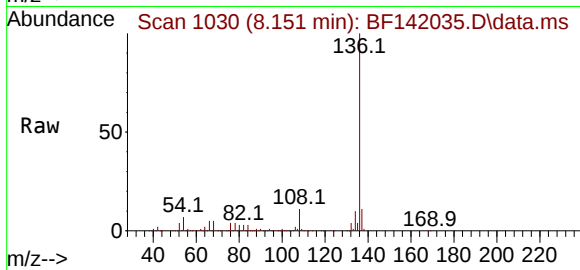
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 6.8 5.8 8.8

68 5.0 4.1 6.1



#23

Nitrobenzene-d5

Concen: 63.689 ng

RT: 7.434 min Scan# 908

Delta R.T. -0.012 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

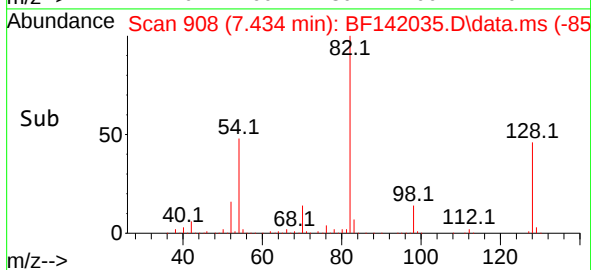
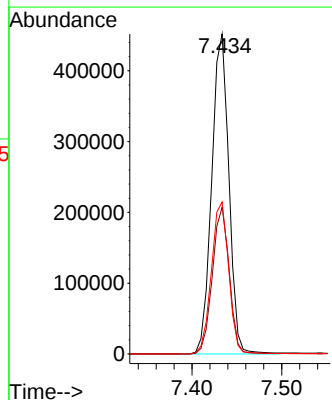
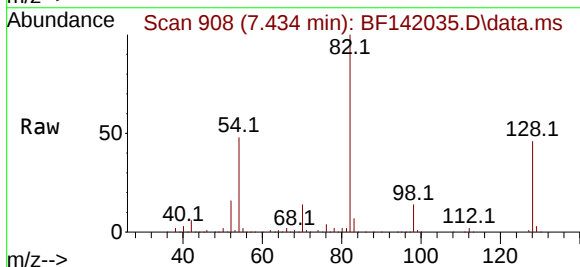
Tgt Ion: 82 Resp: 600354

Ion Ratio Lower Upper

82 100

128 45.9 36.0 54.0

54 47.5 39.6 59.4

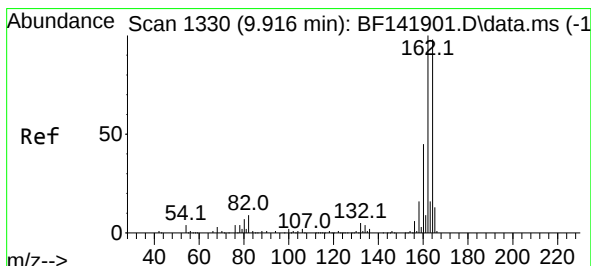
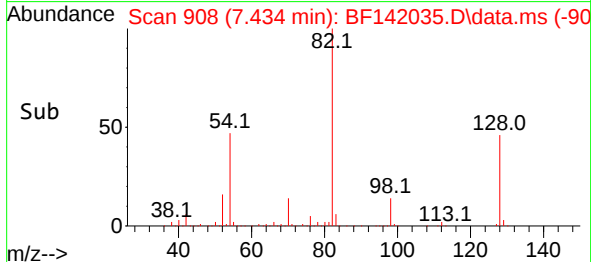
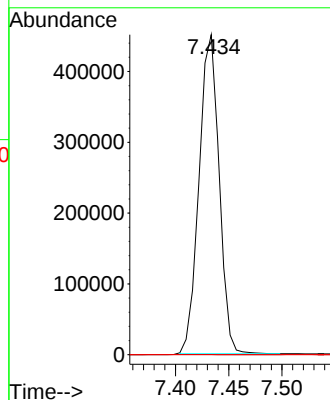
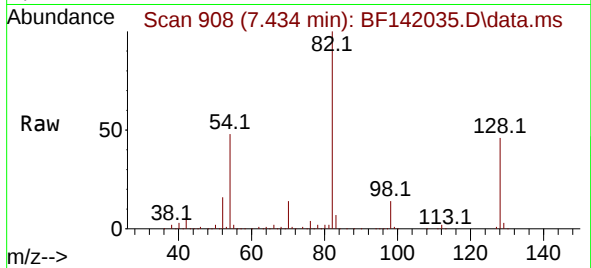




#25
Isophorone
Concen: 35.526 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.271 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

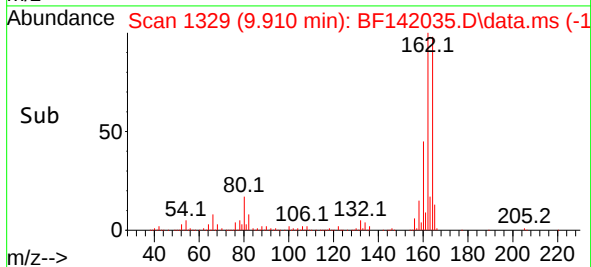
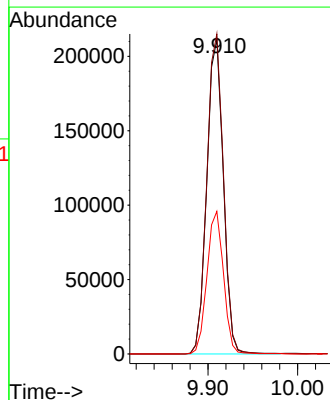
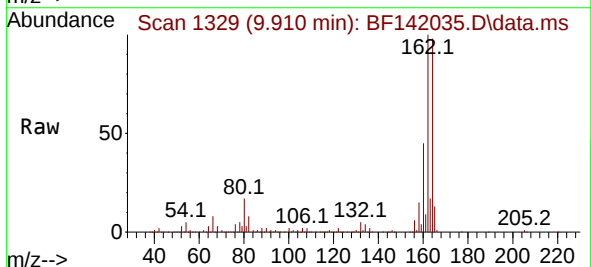
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

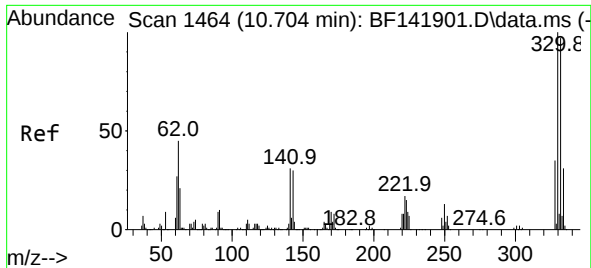
Tgt Ion: 82 Resp: 591954
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 14.9 22.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

Tgt Ion:164 Resp: 270306
Ion Ratio Lower Upper
164 100
162 101.8 81.8 122.6
160 45.3 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 74.503 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

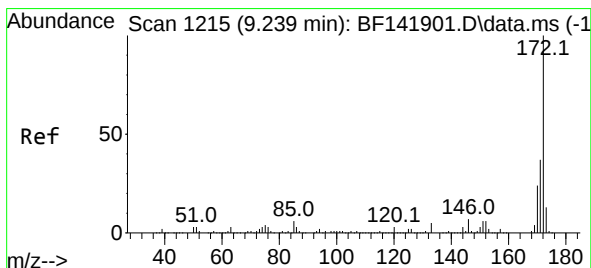
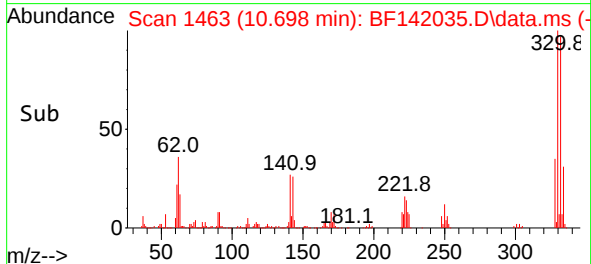
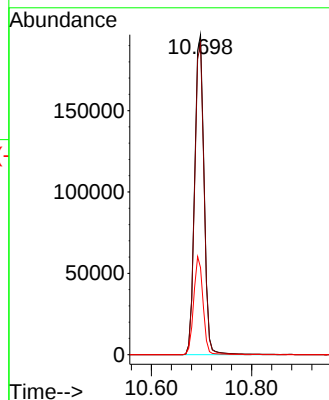
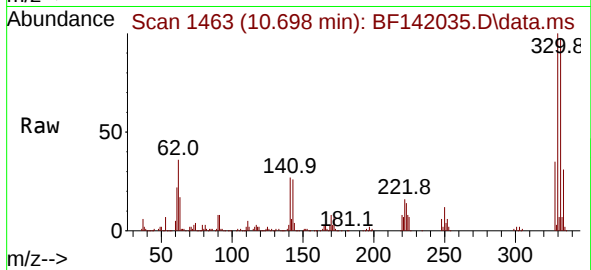
Tgt Ion:330 Resp: 255485

Ion Ratio Lower Upper

330 100

332 96.9 77.6 116.4

141 30.3 24.7 37.1



#45

2-Fluorobiphenyl

Concen: 67.857 ng

RT: 9.228 min Scan# 1213

Delta R.T. -0.012 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

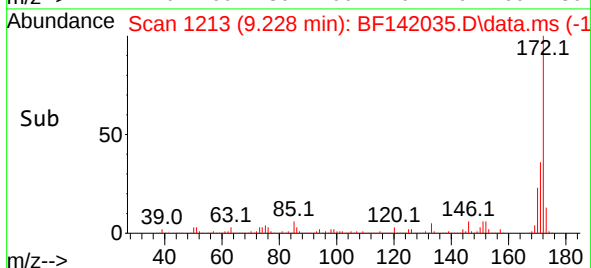
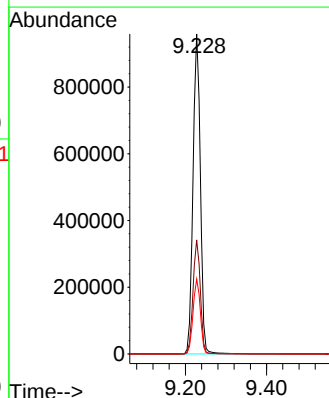
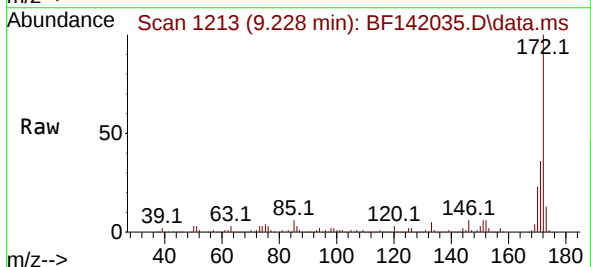
Tgt Ion:172 Resp: 1206077

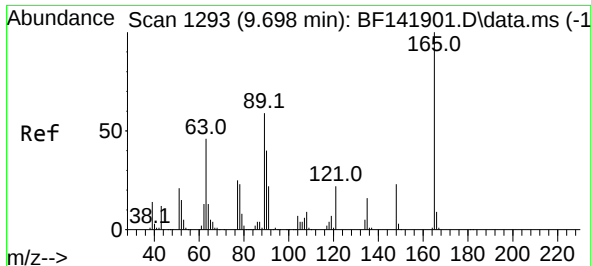
Ion Ratio Lower Upper

172 100

171 35.6 29.3 43.9

170 23.4 19.4 29.0

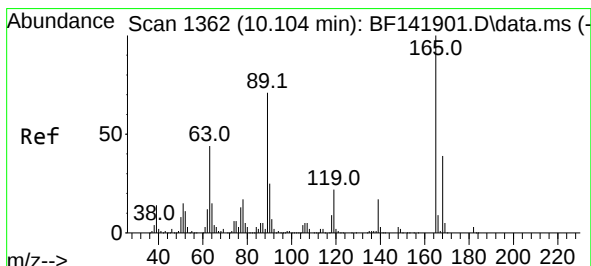
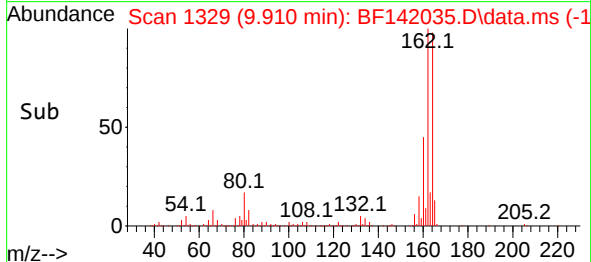
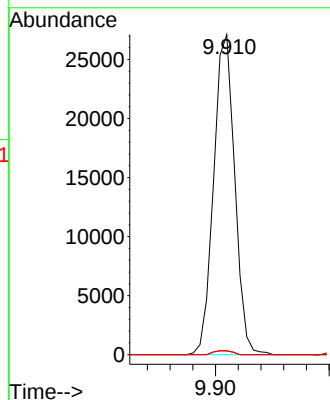
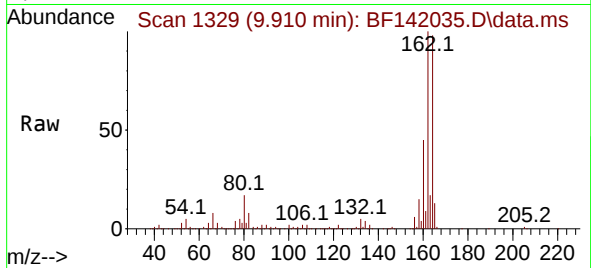




#51
2,6-Dinitrotoluene
Concen: 8.874 ng
RT: 9.910 min Scan# 1329
Delta R.T. 0.212 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

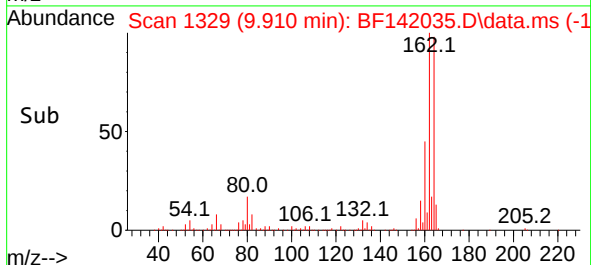
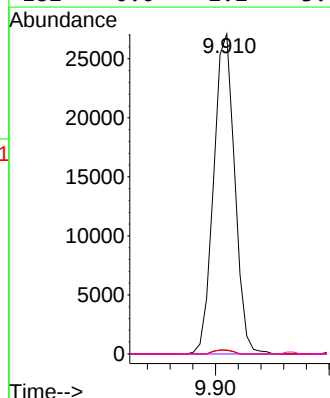
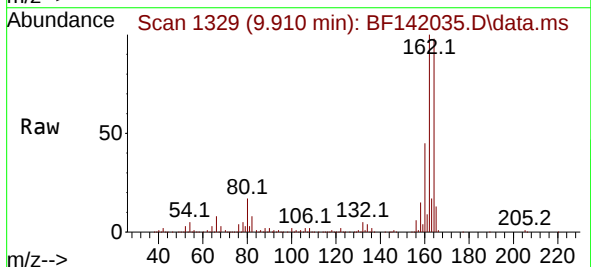
Instrument :
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SOIL-PILE

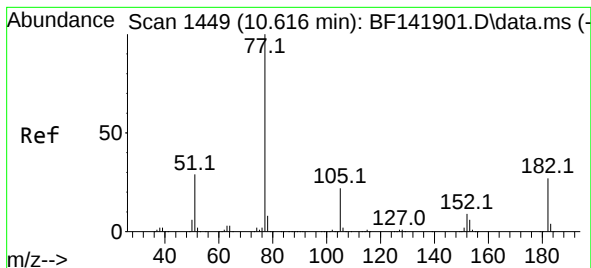
Tgt Ion:165 Resp: 34973
Ion Ratio Lower Upper
165 100
63 1.1 47.0 70.4#
89 1.2 47.4 71.2#



#57
2,4-Dinitrotoluene
Concen: 6.794 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.194 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

Tgt Ion:165 Resp: 34973
Ion Ratio Lower Upper
165 100
63 1.1 35.4 53.2#
89 1.2 56.6 84.8#
182 0.0 2.2 3.4#





#63

Azobenzene

Concen: 2.914 ng

RT: 10.622 min Scan# 1449

Delta R.T. 0.006 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

Tgt Ion: 77 Resp: 51139

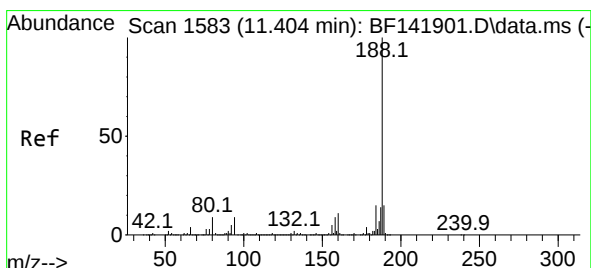
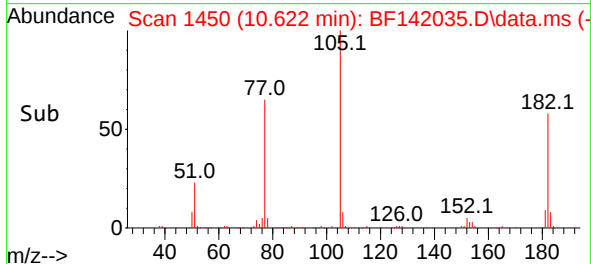
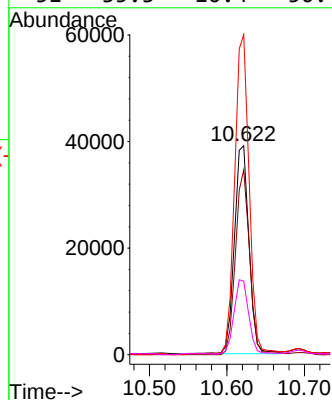
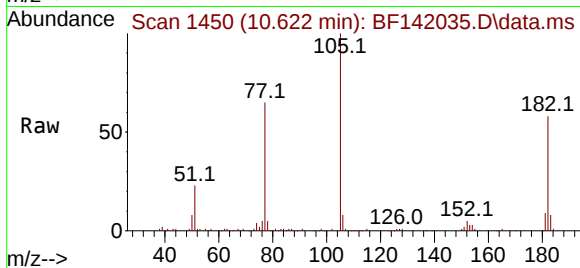
Ion Ratio Lower Upper

77 100

182 88.4 6.6 46.6#

105 153.2 1.3 41.3#

51 35.3 10.4 50.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1581

Delta R.T. -0.012 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

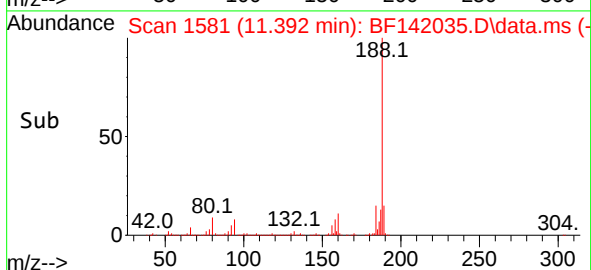
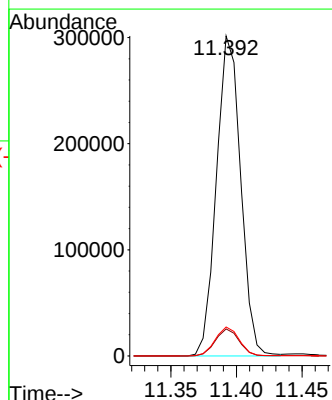
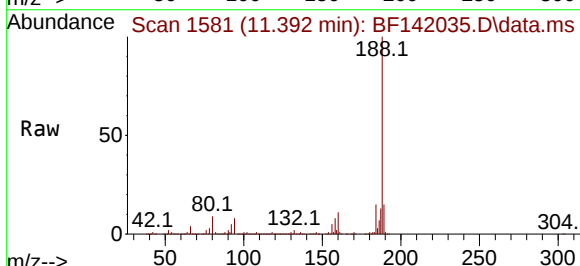
Tgt Ion:188 Resp: 387223

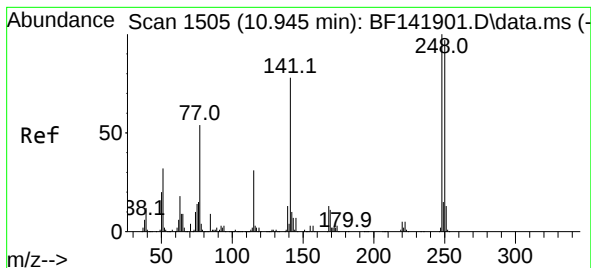
Ion Ratio Lower Upper

188 100

94 8.5 6.8 10.2

80 9.1 7.6 11.4

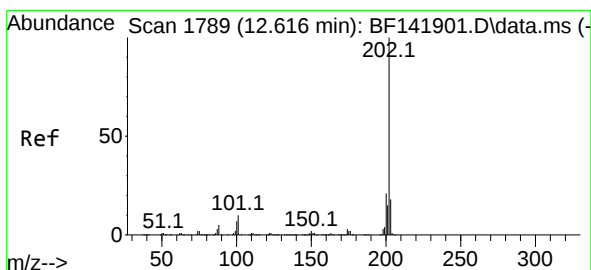
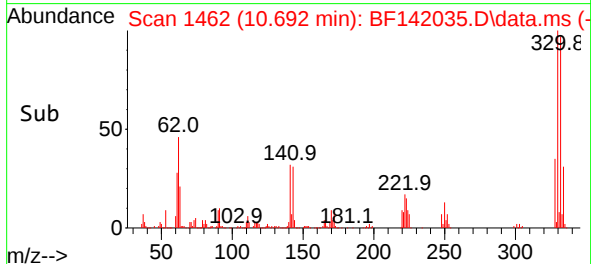
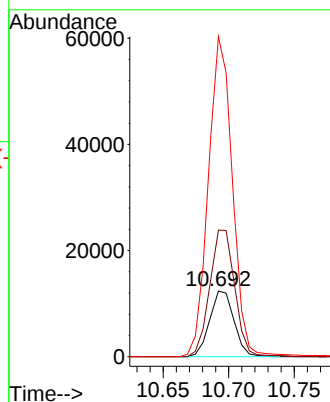
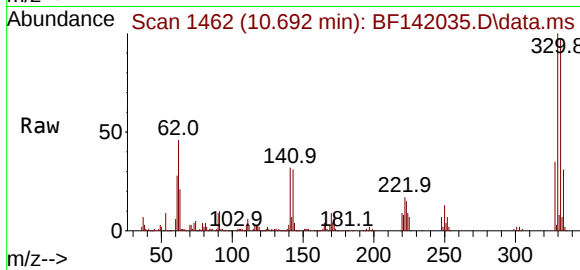




#67
4-Bromophenyl-phenylether
Concen: 3.271 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.253 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

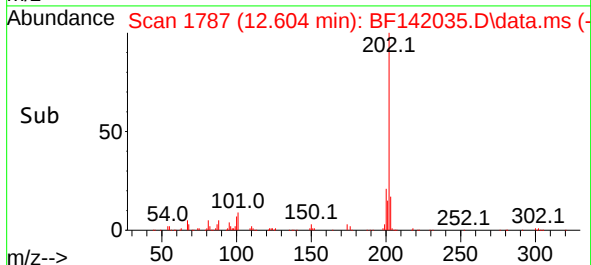
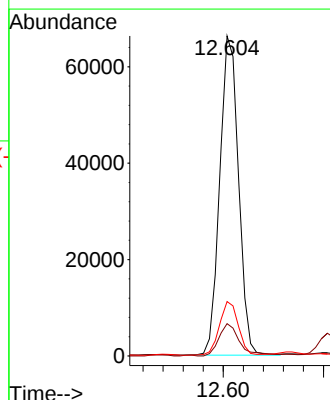
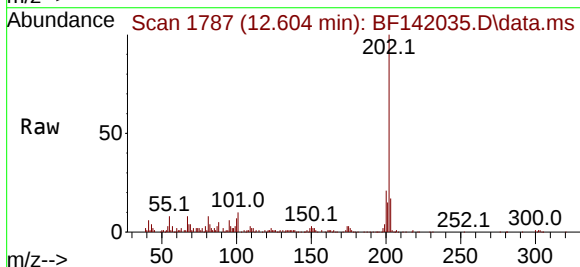
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

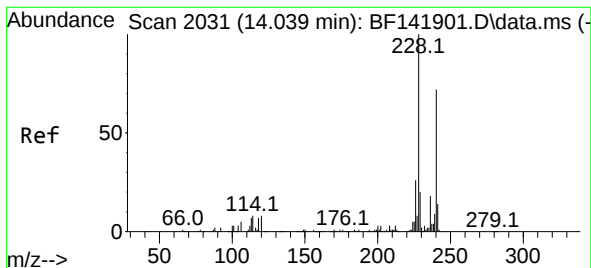
Tgt Ion:248 Resp: 15908
Ion Ratio Lower Upper
248 100
250 193.0 77.8 116.8#
141 487.6 62.6 93.8#



#75
Fluoranthene
Concen: 3.876 ng
RT: 12.604 min Scan# 1787
Delta R.T. -0.012 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

Tgt Ion:202 Resp: 85998
Ion Ratio Lower Upper
202 100
101 10.1 0.0 29.7
203 17.0 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

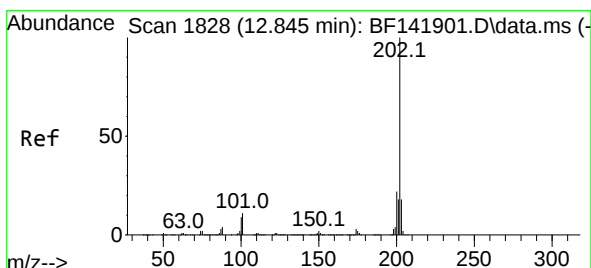
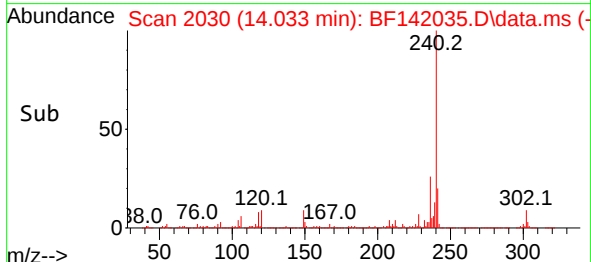
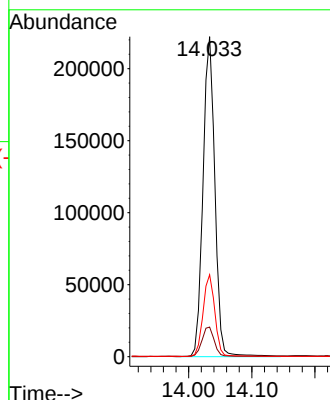
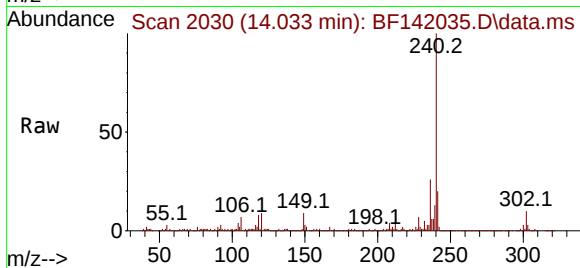
Tgt Ion:240 Resp: 291241

Ion Ratio Lower Upper

240 100

120 9.3 8.4 12.6

236 25.6 20.5 30.7



#78

Pyrene

Concen: 2.778 ng

RT: 12.833 min Scan# 1826

Delta R.T. -0.012 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

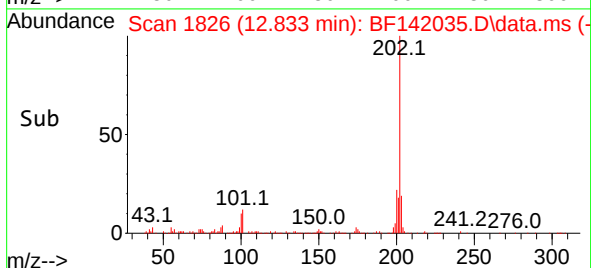
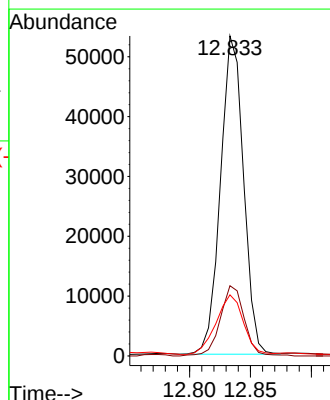
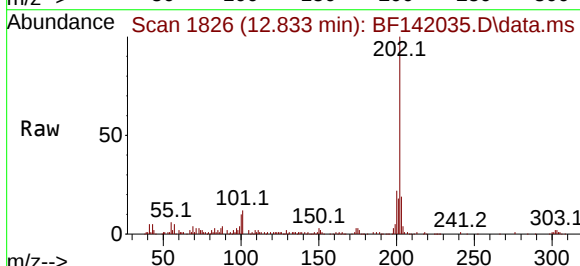
Tgt Ion:202 Resp: 69987

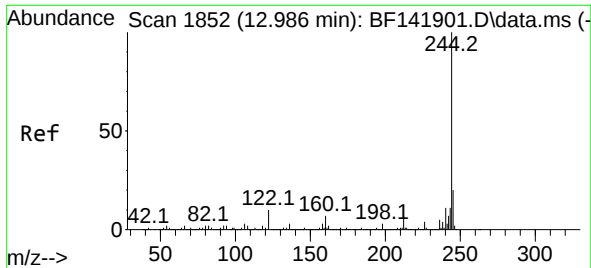
Ion Ratio Lower Upper

202 100

200 22.0 17.3 25.9

203 19.1 14.4 21.6

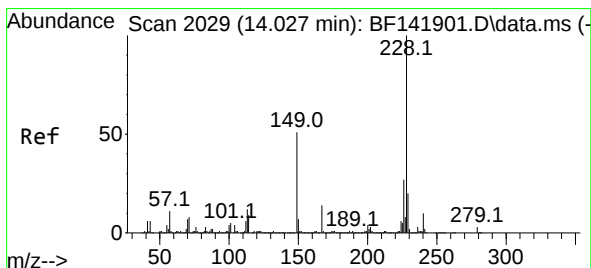
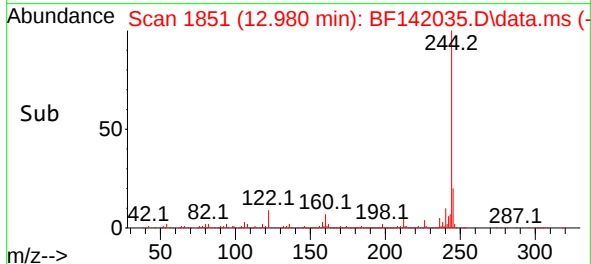
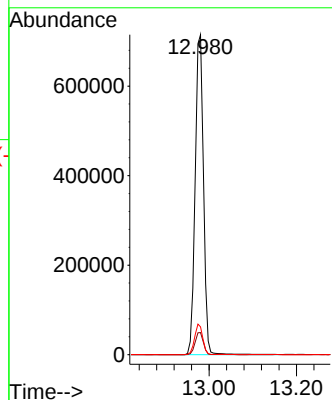
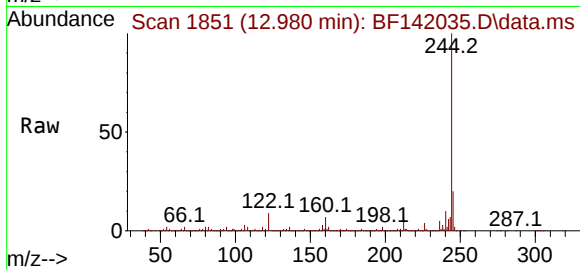




#79
 Terphenyl-d14
 Concen: 48.001 ng
 RT: 12.980 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF142035.D
 Acq: 21 Mar 2025 17:50

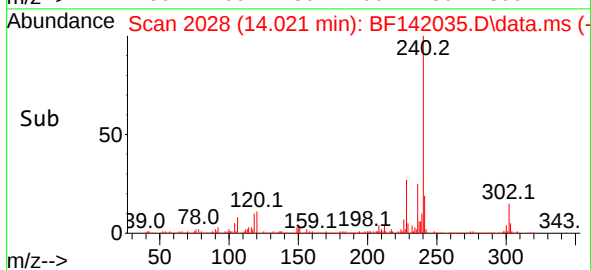
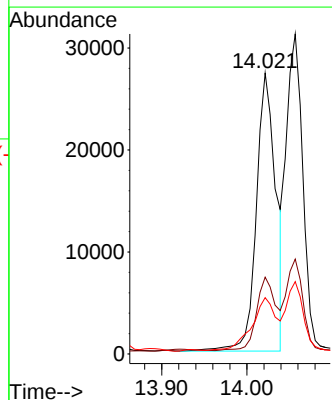
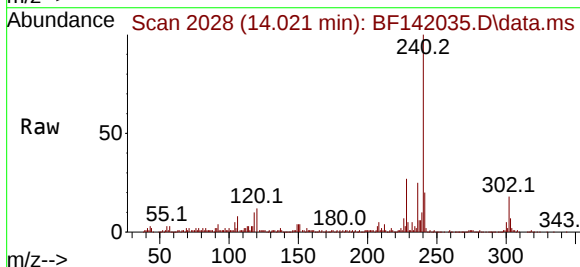
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

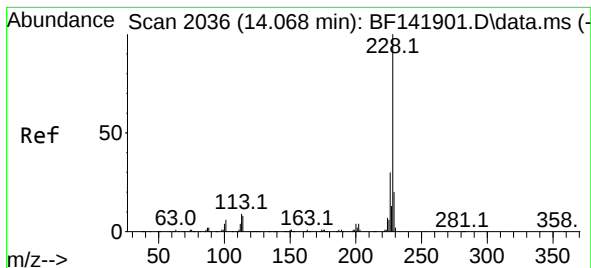
Tgt Ion:244 Resp: 945574
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 8.7 7.7 11.5



#81
 Benzo(a)anthracene
 Concen: 2.264 ng
 RT: 14.021 min Scan# 2028
 Delta R.T. -0.006 min
 Lab File: BF142035.D
 Acq: 21 Mar 2025 17:50

Tgt Ion:228 Resp: 43276
 Ion Ratio Lower Upper
 228 100
 226 27.4 21.8 32.8
 229 20.1 16.0 24.0





#83

Chrysene

Concen: 2.433 ng

RT: 14.057 min Scan# 2036

Delta R.T. -0.012 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

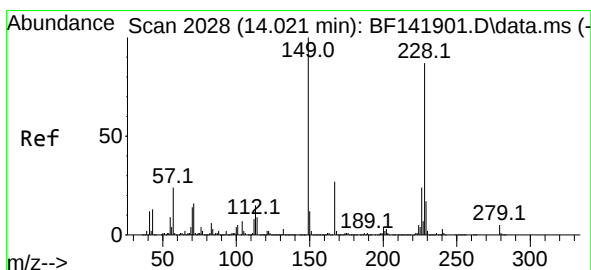
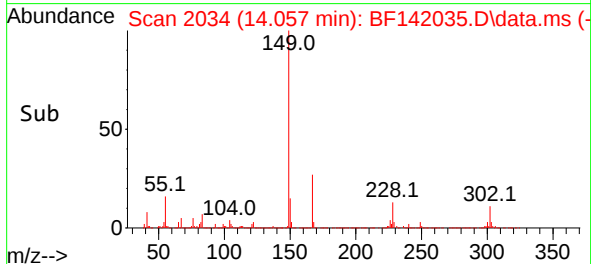
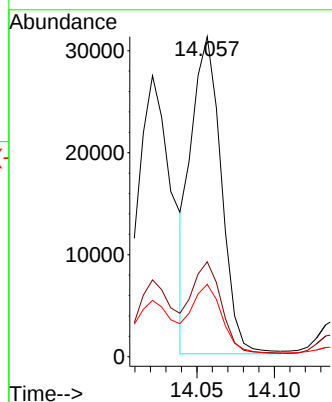
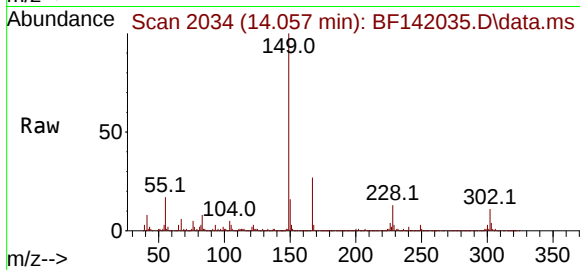
Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

Tgt Ion:228	Resp:	42146
Ion Ratio	Lower	Upper
228	100	
226	29.7	24.1 36.1
229	22.6	15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 25.972 ng

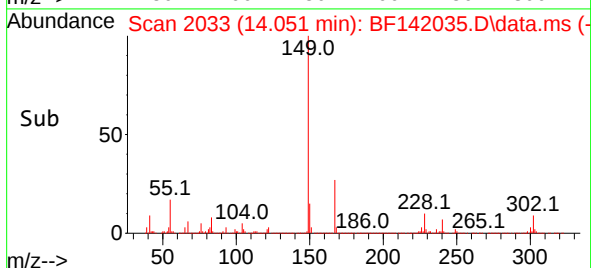
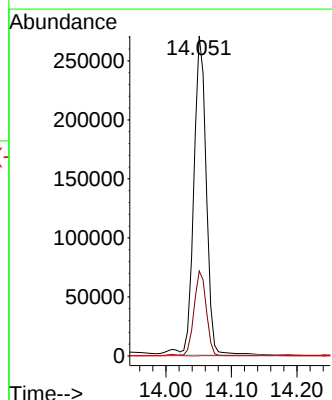
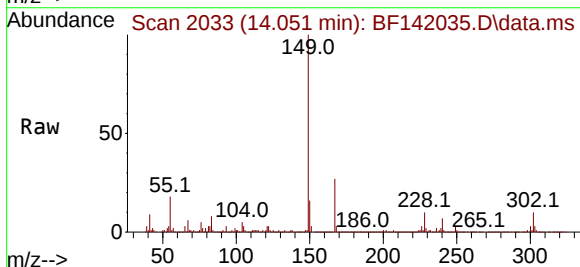
RT: 14.051 min Scan# 2033

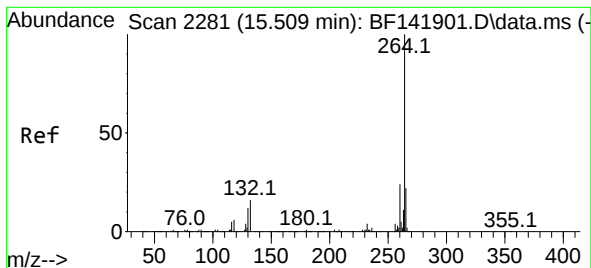
Delta R.T. 0.029 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

Tgt Ion:149	Resp:	353104
Ion Ratio	Lower	Upper
149	100	
167	26.6	21.4 32.0
279	0.1	3.8 5.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

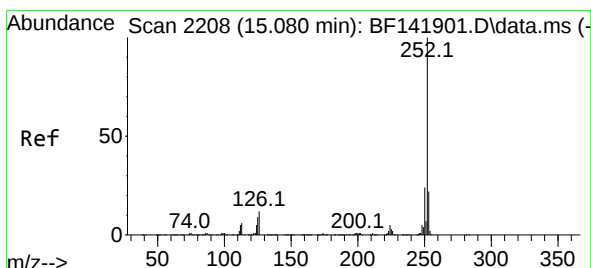
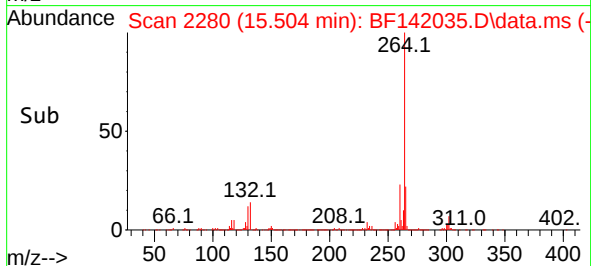
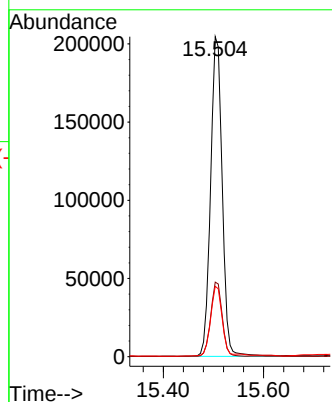
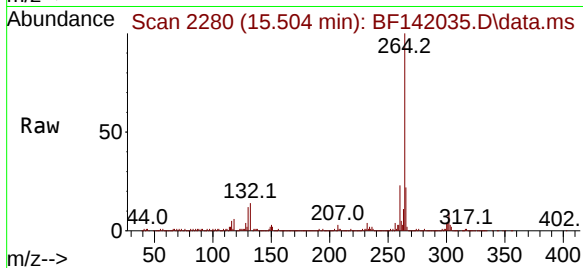
Tgt Ion:264 Resp: 329187

Ion Ratio Lower Upper

264 100

260 23.3 19.1 28.7

265 22.0 17.5 26.3



#88

Benzo(b)fluoranthene

Concen: 4.440 ng

RT: 15.074 min Scan# 2207

Delta R.T. -0.006 min

Lab File: BF142035.D

Acq: 21 Mar 2025 17:50

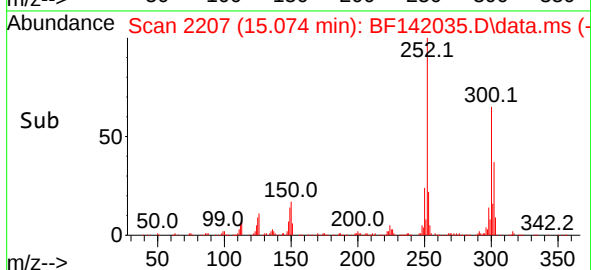
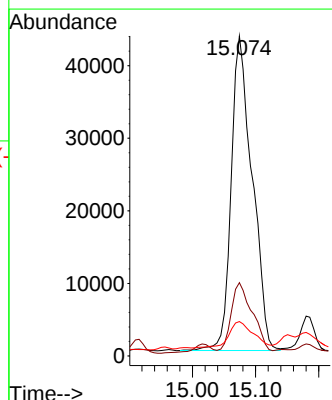
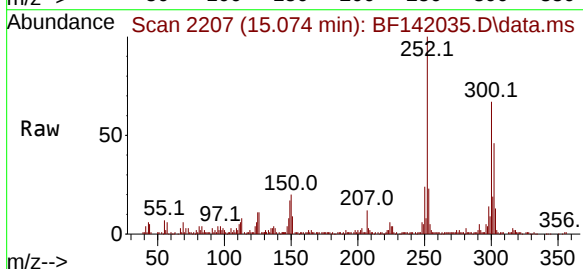
Tgt Ion:252 Resp: 100179

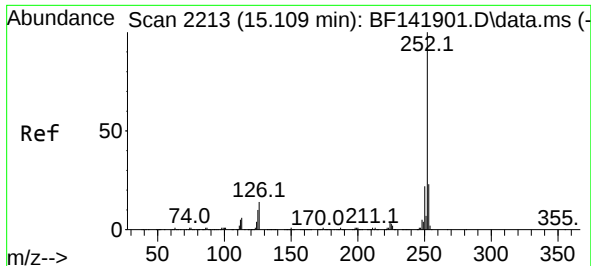
Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 10.8 7.0 10.4#

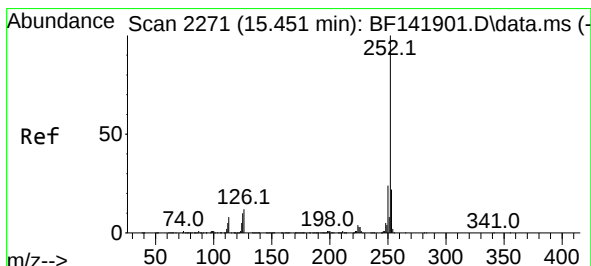
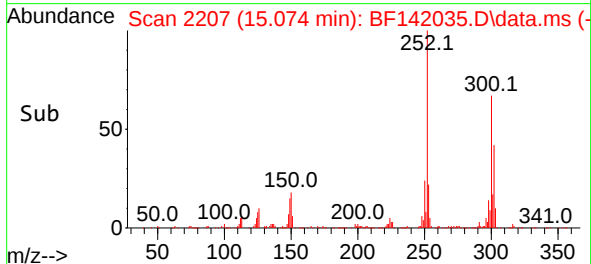
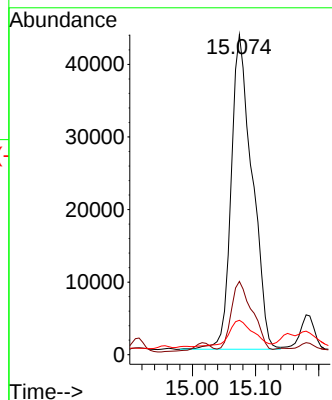
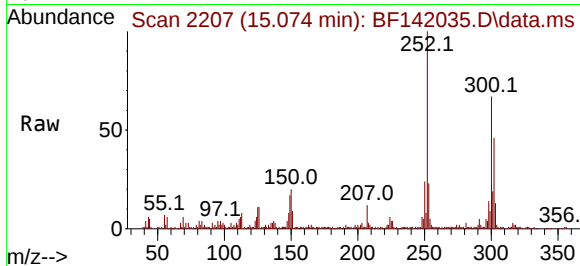




#89
Benzo(k)fluoranthene
Concen: 5.189 ng
RT: 15.074 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

Tgt Ion:252 Resp: 100179
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 10.8 7.2 10.8



#90
Benzo(a)pyrene
Concen: 2.666 ng
RT: 15.439 min Scan# 2269
Delta R.T. -0.012 min
Lab File: BF142035.D
Acq: 21 Mar 2025 17:50

Tgt Ion:252 Resp: 47068
Ion Ratio Lower Upper
252 100
253 25.6 17.4 26.0
125 13.6 7.8 11.8#

