

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
 Data File : BN035087.D
 Acq On : 14 Nov 2024 14:10
 Operator : RC/JU
 Sample : P4495-13DL 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOILD

Quant Time: Nov 14 14:35:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

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

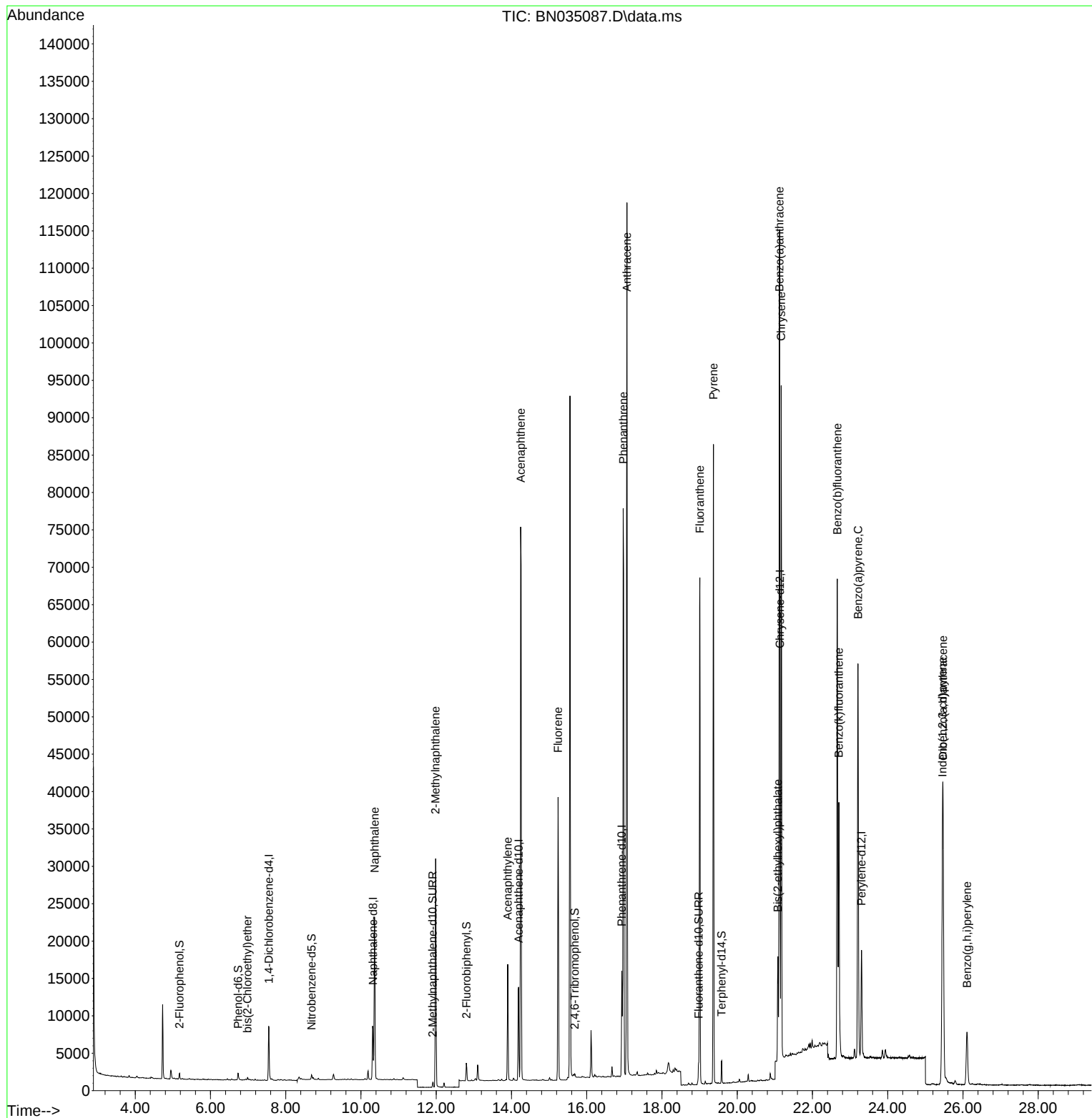
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3588	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	9962	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	7625	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	18496	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	19193	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	17654	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	623	0.068	ng	0.00
5) Phenol-d6	6.737	99	858	0.075	ng	0.00
8) Nitrobenzene-d5	8.685	82	574	0.066	ng	-0.01
11) 2-Methylnaphthalene-d10	11.908	152	948	0.053	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	267	0.049	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	1933	0.062	ng	0.00
27) Fluoranthene-d10	18.973	212	3297	0.058	ng	0.00
31) Terphenyl-d14	19.587	244	3039	0.075	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	6.983	93	276	0.032	ng	# 88
9) Naphthalene	10.361	128	26813	1.031	ng	98
12) 2-Methylnaphthalene	11.984	142	20979	1.093	ng	98
16) Acenaphthylene	13.901	152	15792	0.485	ng	99
17) Acenaphthene	14.243	154	39032	1.828	ng	100
18) Fluorene	15.238	166	23114	0.736	ng	100
25) Phenanthrene	16.970	178	85839	1.764	ng	99
26) Anthracene	17.069	178	116295	2.601	ng	100
28) Fluoranthene	19.006	202	59098	0.883	ng	100
30) Pyrene	19.368	202	74314	1.163	ng	100
32) Benzo(a)anthracene	21.125	228	90123	1.349	ng	100
33) Chrysene	21.169	228	70164	1.060	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	12480	0.356	ng	98
36) Indeno(1,2,3-cd)pyrene	25.455	276	42313	0.601	ng	99
37) Benzo(b)fluoranthene	22.660	252	80139	1.349	ng	97
38) Benzo(k)fluoranthene	22.701	252	40922	0.689	ng	98
39) Benzo(a)pyrene	23.209	252	69681	1.333	ng	95
40) Dibenzo(a,h)anthracene	25.472	278	44339	0.795	ng	100
41) Benzo(g,h,i)perylene	26.107	276	14526	0.245	ng	98

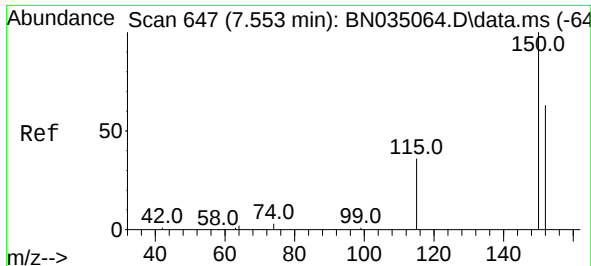
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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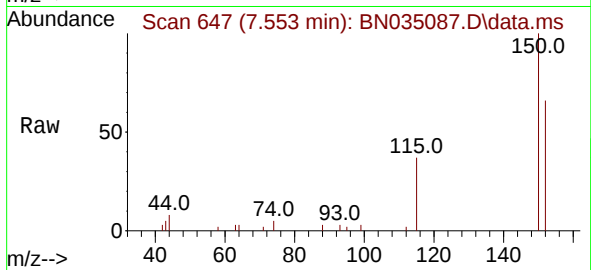
Quant Time: Nov 14 14:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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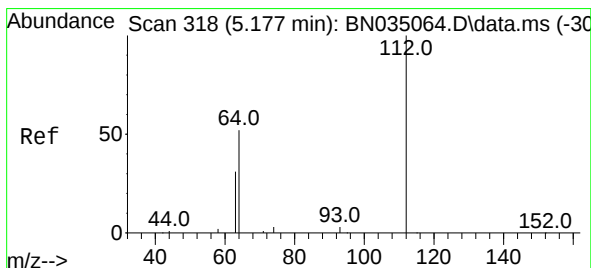
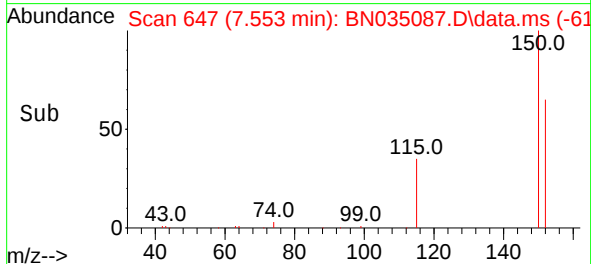
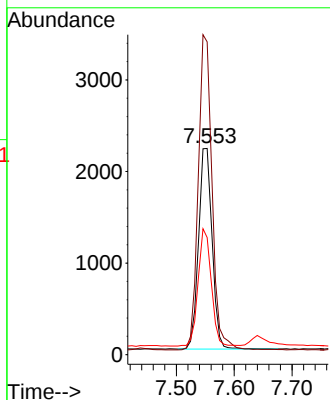


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

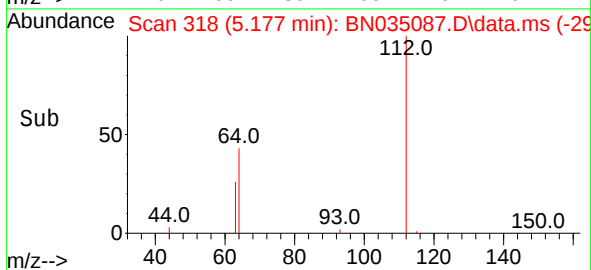
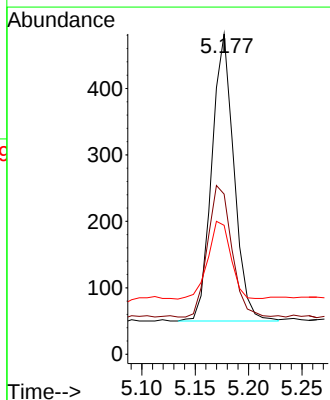
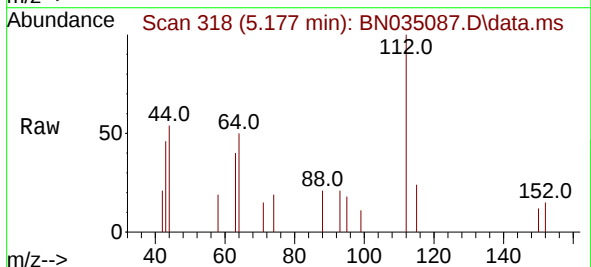


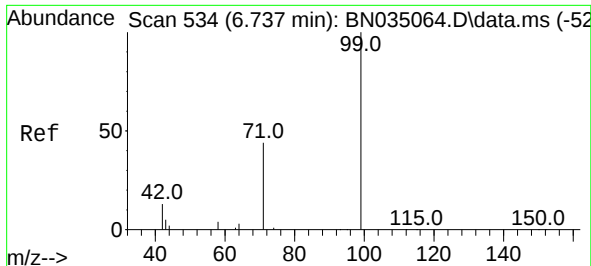
Tgt Ion:152 Resp: 3588
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 56.7 47.8 71.6



#4
2-Fluorophenol
Concen: 0.068 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:112 Resp: 623
Ion Ratio Lower Upper
112 100
64 49.9 39.7 59.5
63 28.1 23.0 34.4

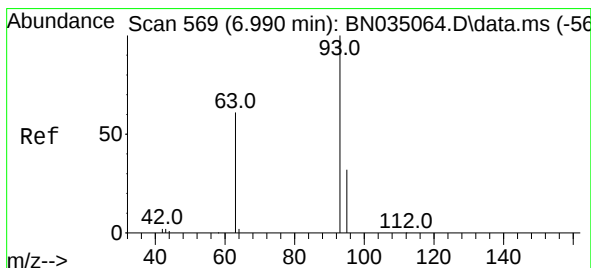
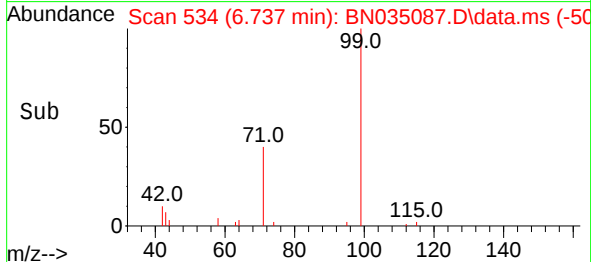
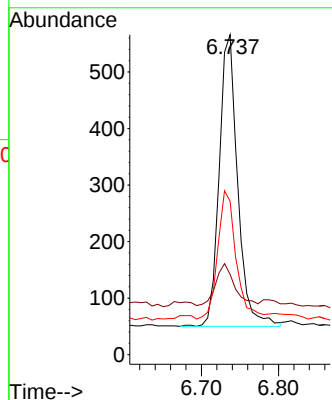
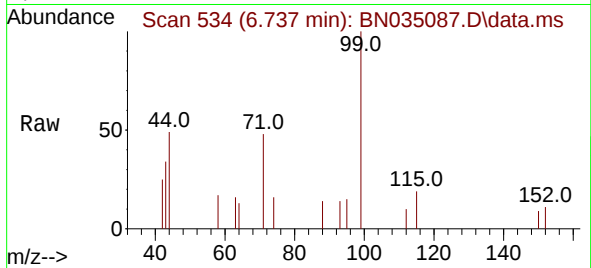




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

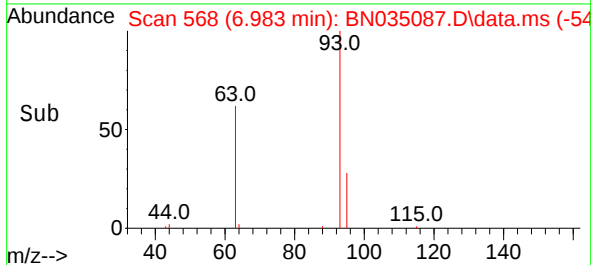
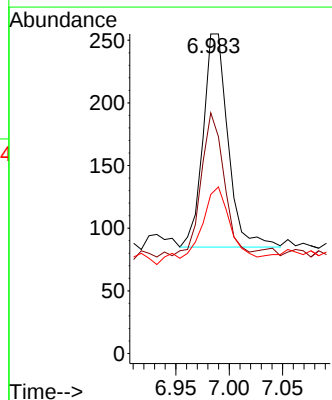
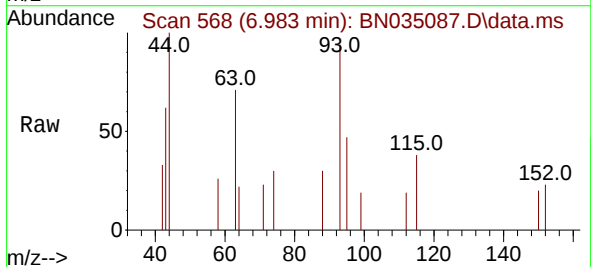
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ClientSampleId :
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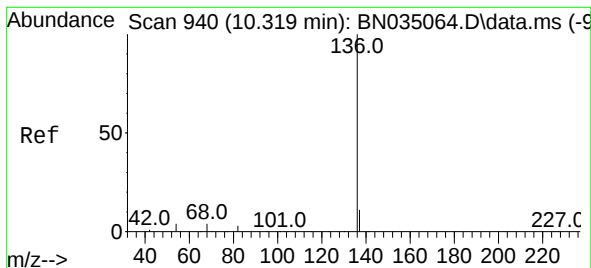
Tgt Ion: 99 Resp: 858
Ion Ratio Lower Upper
99 100
42 16.3 11.4 17.0
71 43.6 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.032 ng
RT: 6.983 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion: 93 Resp: 276
Ion Ratio Lower Upper
93 100
63 64.1 47.4 71.2
95 46.0 26.2 39.4#

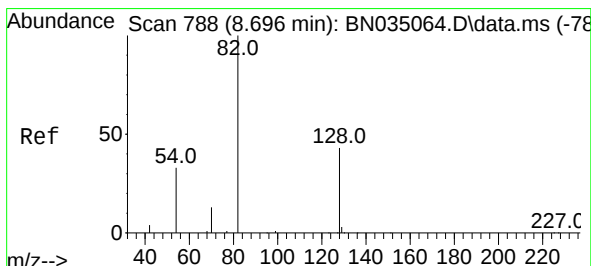
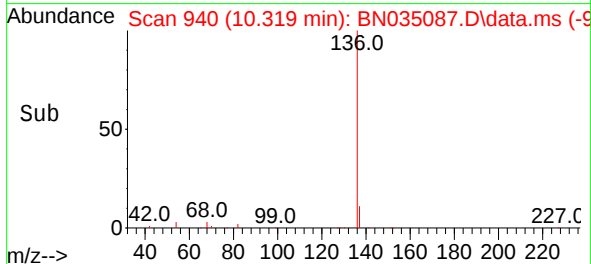
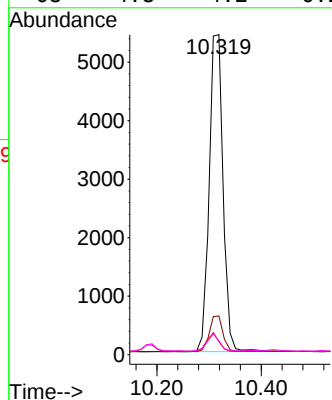
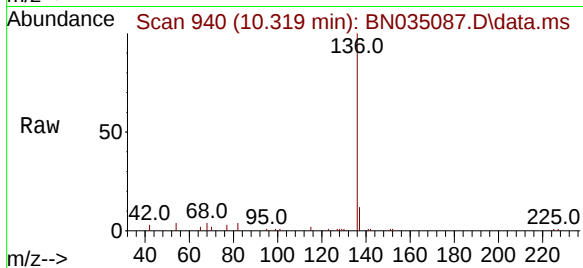




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

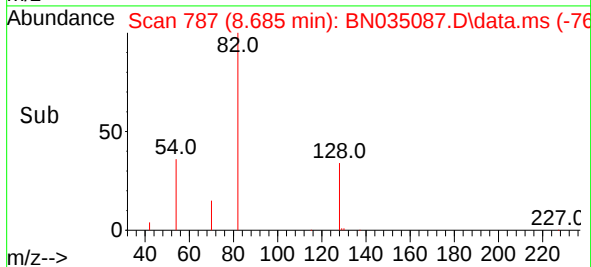
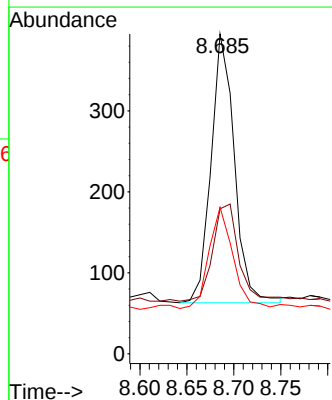
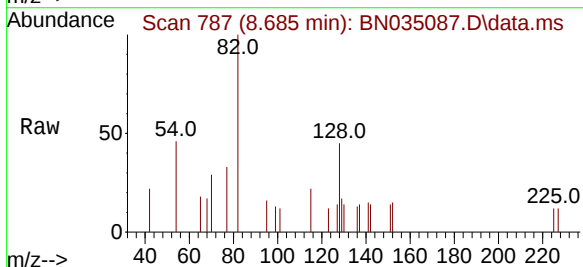
Instrument :
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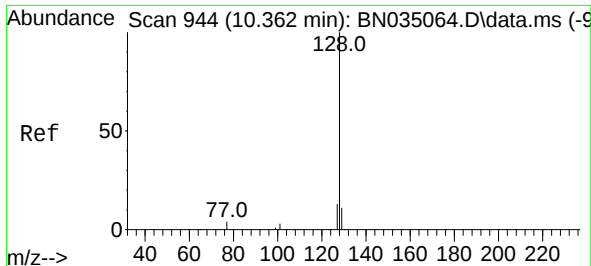
Tgt Ion:136	Resp:	9962
Ion Ratio	Lower	Upper
136	100	
137	12.1	9.8 14.8
54	4.1	4.0 6.0
68	4.3	4.2 6.2



#8
Nitrobenzene-d5
Concen: 0.066 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion: 82	Resp:	574
Ion Ratio	Lower	Upper
82	100	
128	45.3	36.5 54.7
54	45.8	28.7 43.1#

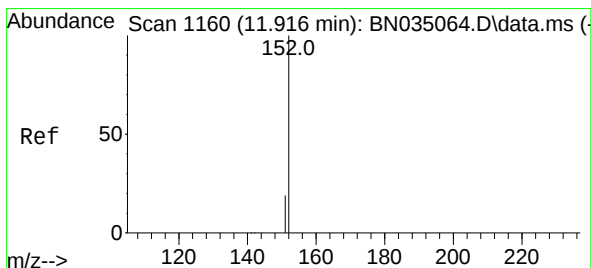
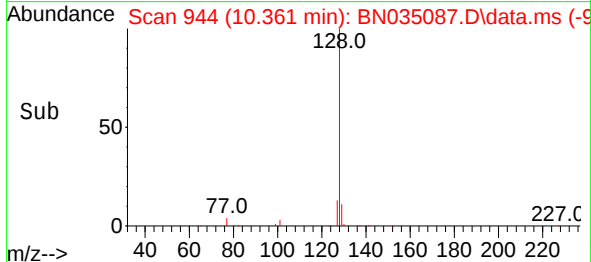
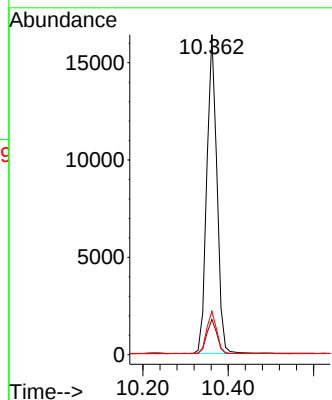
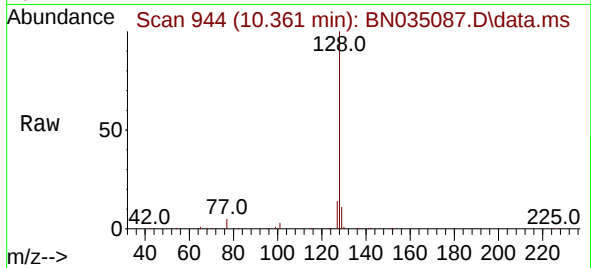




#9
Naphthalene
Concen: 1.031 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

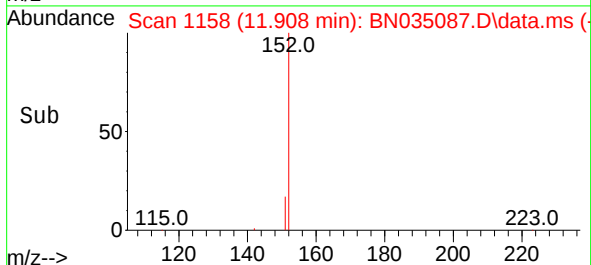
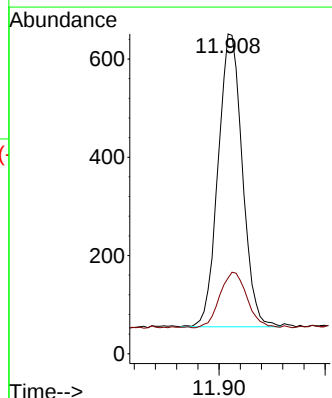
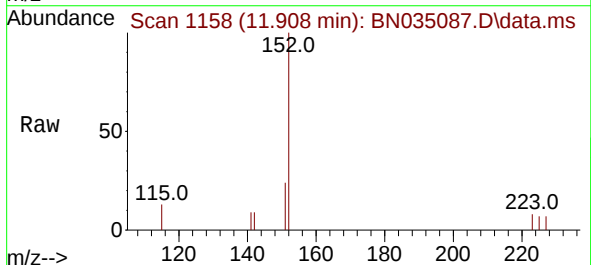
Instrument :
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ClientSampleId :
PT-PAH-SOILD

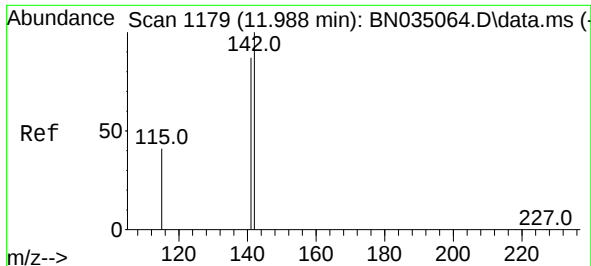
Tgt Ion:128 Resp: 26813
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.6 11.6 17.4



#11
2-Methylnaphthalene-d10
Concen: 0.053 ng
RT: 11.908 min Scan# 1158
Delta R.T. -0.008 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:152 Resp: 948
Ion Ratio Lower Upper
152 100
151 21.2 16.2 24.4

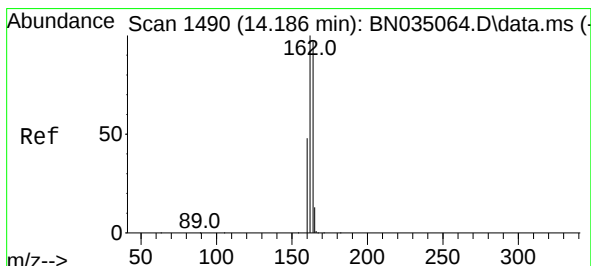
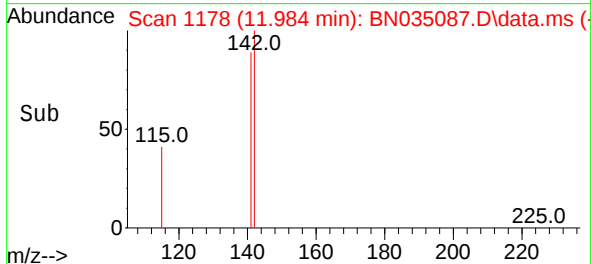
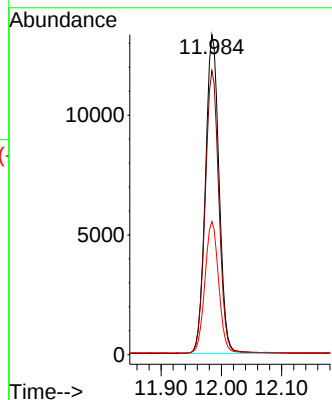
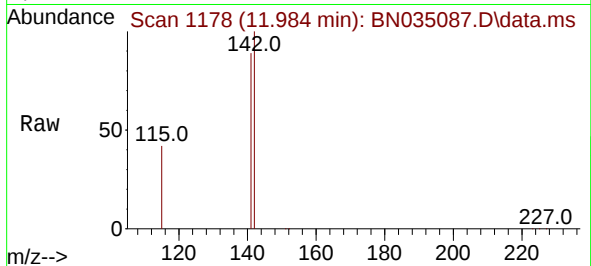




#12
2-Methylnaphthalene
Concen: 1.093 ng
RT: 11.984 min Scan# 1178
Delta R.T. -0.004 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

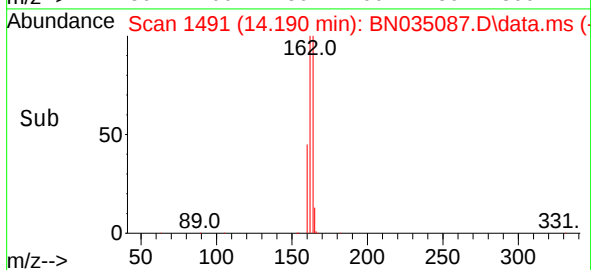
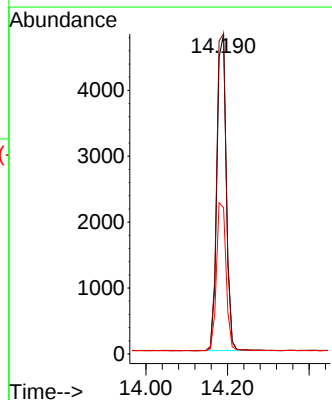
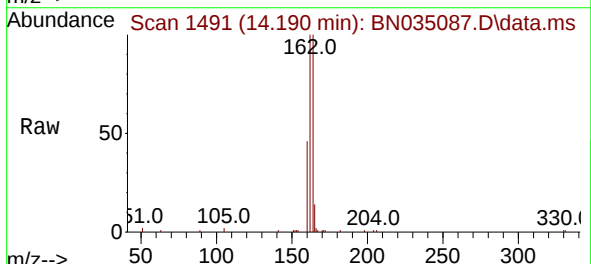
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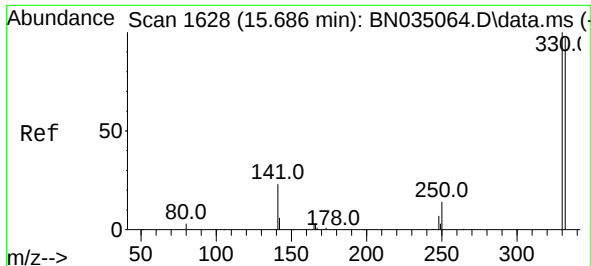
Tgt Ion:142 Resp: 20979
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 41.6 34.4 51.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:164 Resp: 7625
Ion Ratio Lower Upper
164 100
162 100.1 82.2 123.2
160 45.7 40.2 60.4

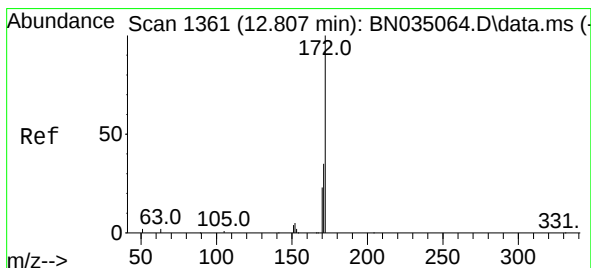
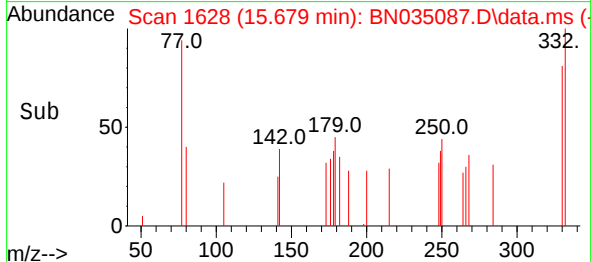
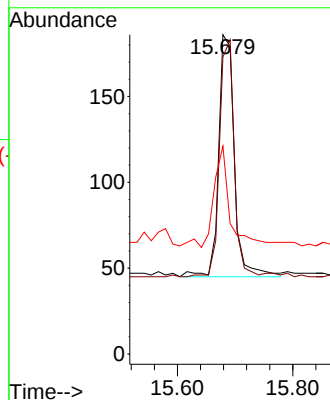
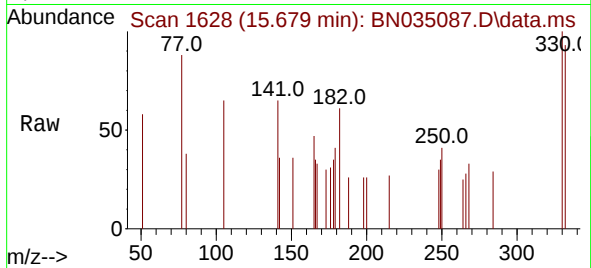




#14
2,4,6-Tribromophenol
Concen: 0.049 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

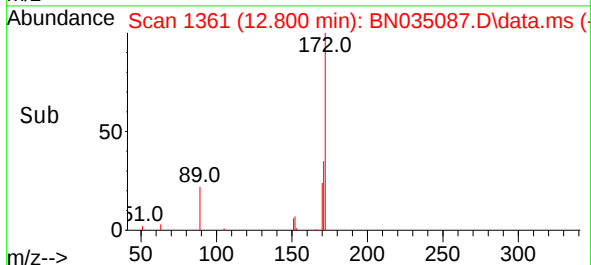
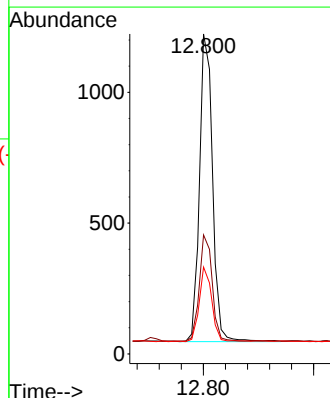
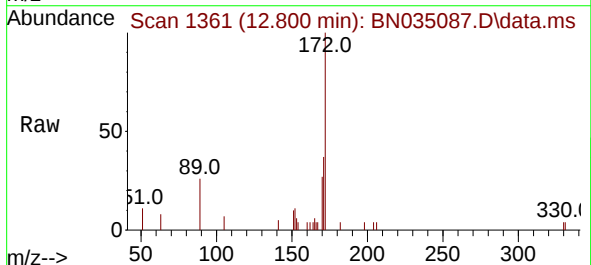
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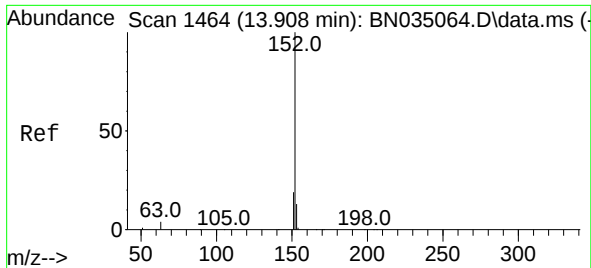
Tgt Ion:330 Resp: 267
Ion Ratio Lower Upper
330 100
332 88.0 76.9 115.3
141 42.7 29.6 44.4



#15
2-Fluorobiphenyl
Concen: 0.062 ng
RT: 12.800 min Scan# 1361
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:172 Resp: 1933
Ion Ratio Lower Upper
172 100
171 37.2 28.2 42.4
170 27.1 19.0 28.6

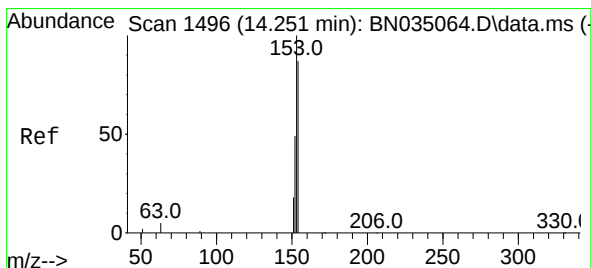
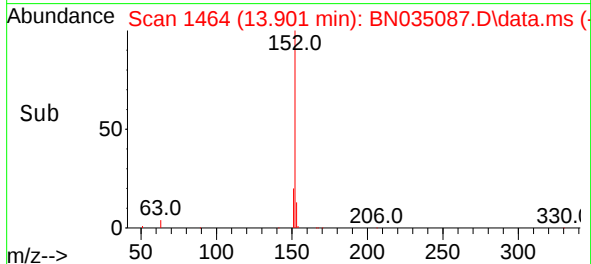
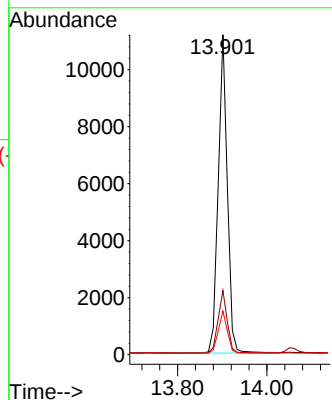
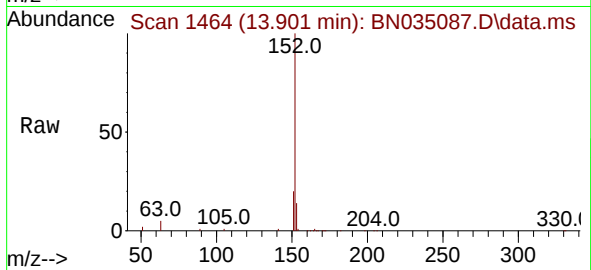




#16
Acenaphthylene
Concen: 0.485 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

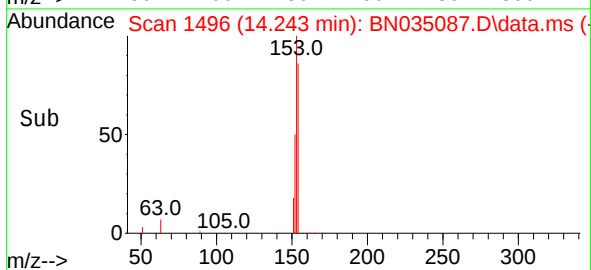
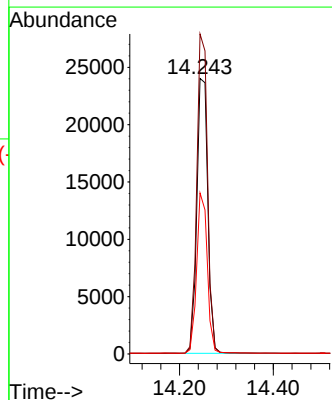
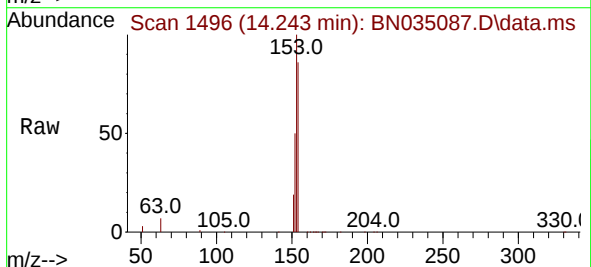
Instrument :
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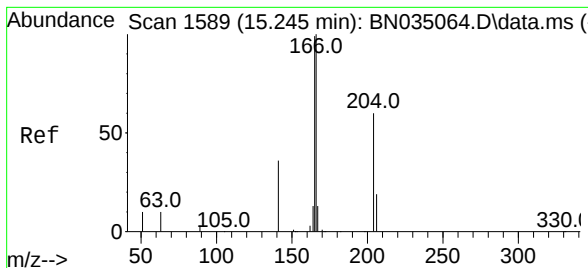
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Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 13.3 10.2 15.4



#17
Acenaphthene
Concen: 1.828 ng
RT: 14.243 min Scan# 1496
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:154 Resp: 39032
Ion Ratio Lower Upper
154 100
153 114.3 91.6 137.4
152 56.3 45.8 68.6





#18

Fluorene

Concen: 0.736 ng

RT: 15.238 min Scan# 1589

Delta R.T. -0.007 min

Lab File: BN035087.D

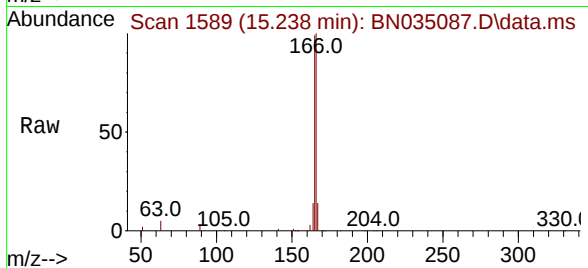
Acq: 14 Nov 2024 14:10

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILD



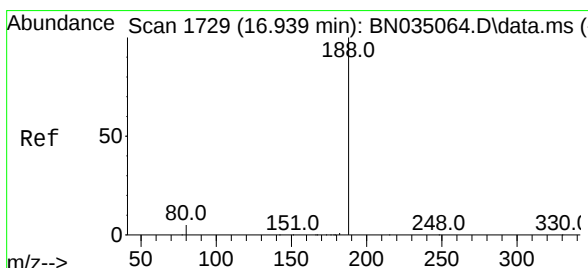
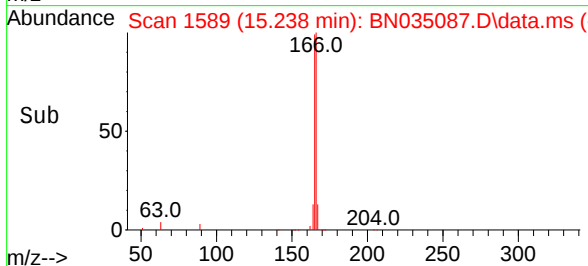
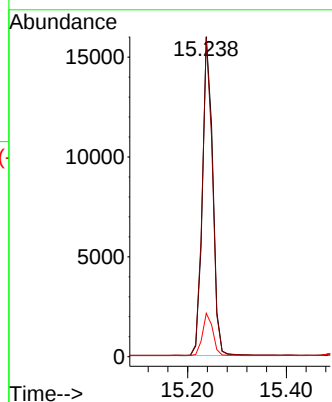
Tgt Ion:166 Resp: 23114

Ion Ratio Lower Upper

166 100

165 98.8 79.1 118.7

167 13.4 10.6 16.0



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

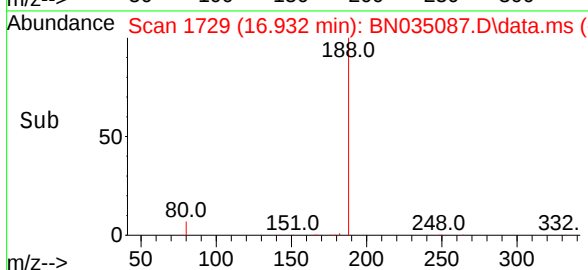
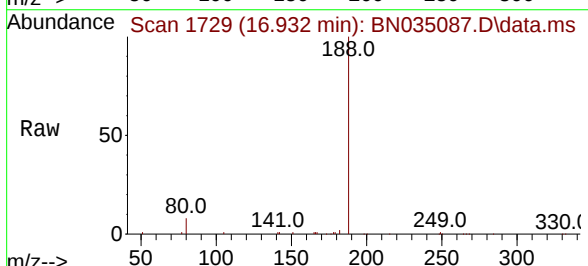
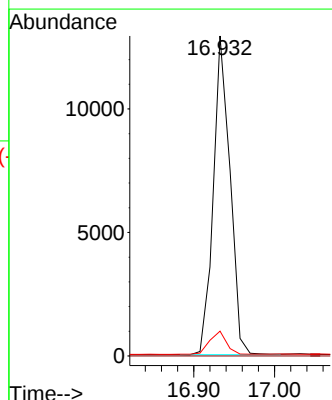
Tgt Ion:188 Resp: 18496

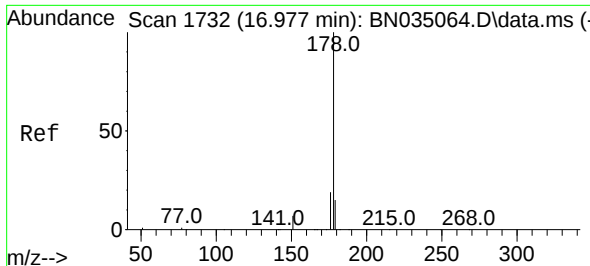
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.7 4.3 6.5

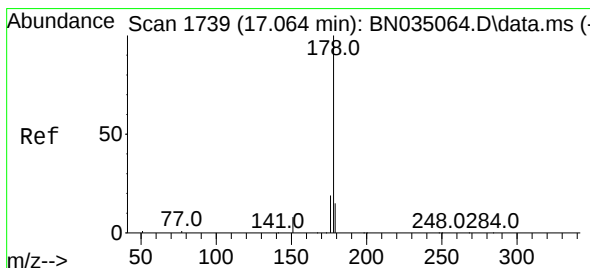
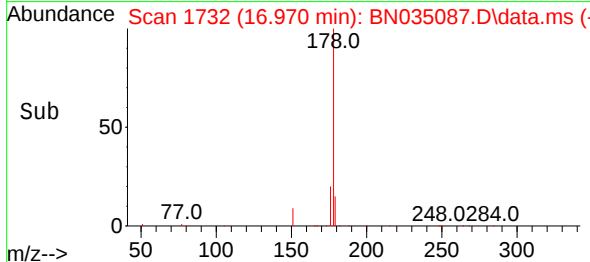
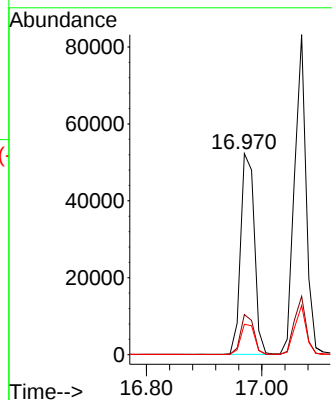
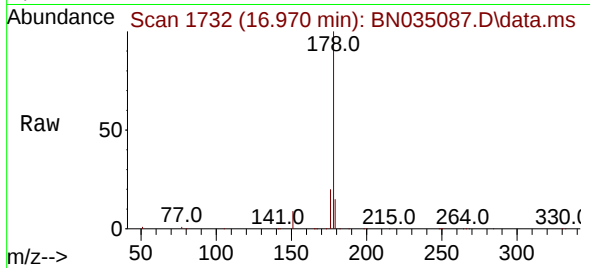




#25
Phenanthrene
Concen: 1.764 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

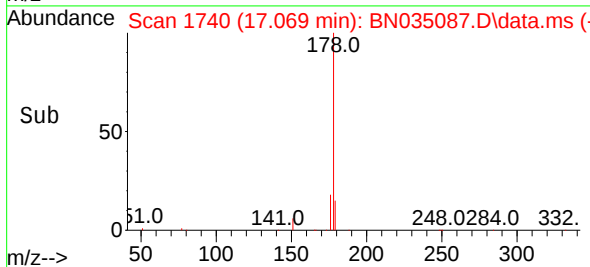
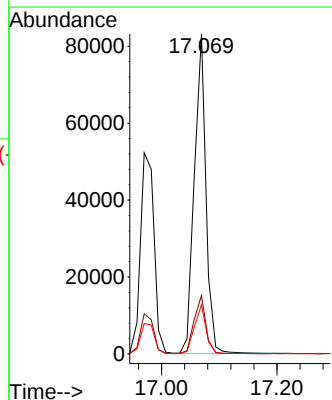
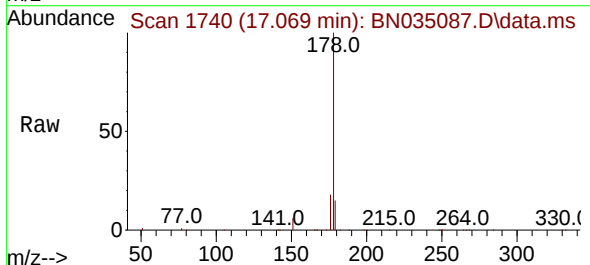
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

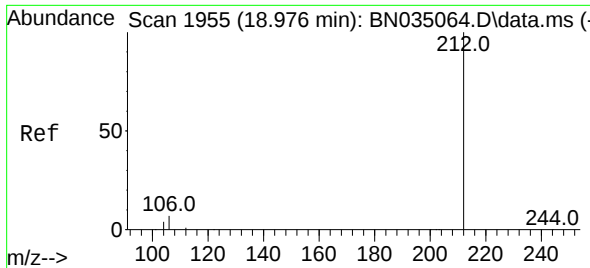
Tgt Ion:178 Resp: 85839
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.3 12.6 18.8



#26
Anthracene
Concen: 2.601 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:178 Resp: 116295
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.2

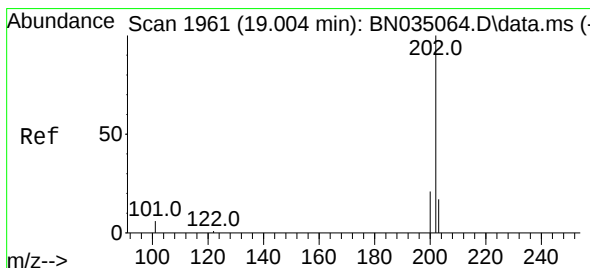
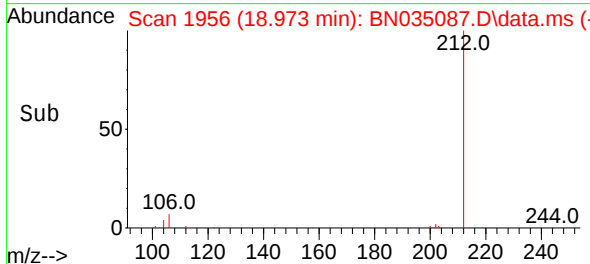
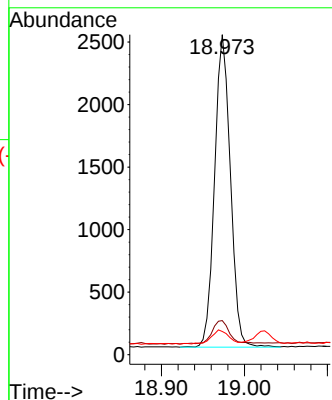
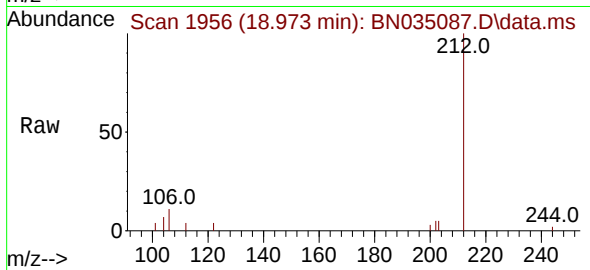




#27
Fluoranthene-d10
Concen: 0.058 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

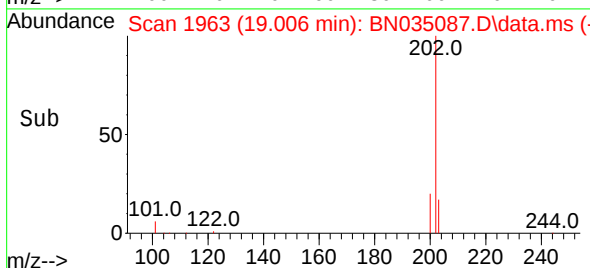
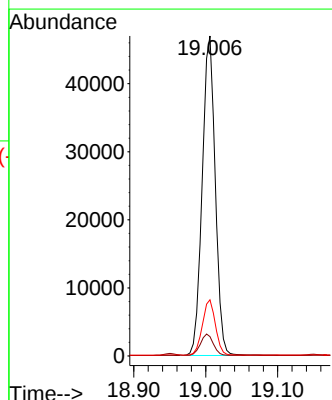
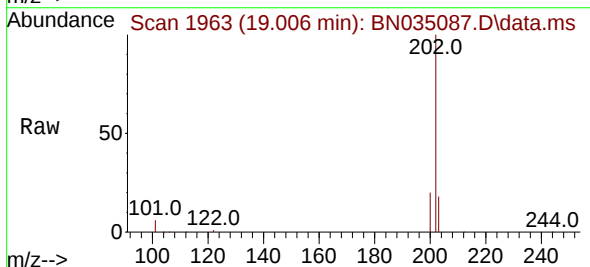
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

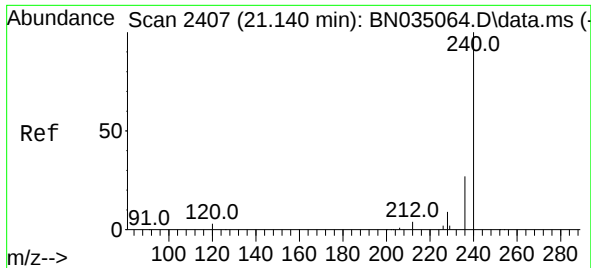
Tgt Ion:212 Resp: 3297
Ion Ratio Lower Upper
212 100
106 8.3 6.0 9.0
104 5.0 3.5 5.3



#28
Fluoranthene
Concen: 0.883 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:202 Resp: 59098
Ion Ratio Lower Upper
202 100
101 6.6 5.2 7.8
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILDL

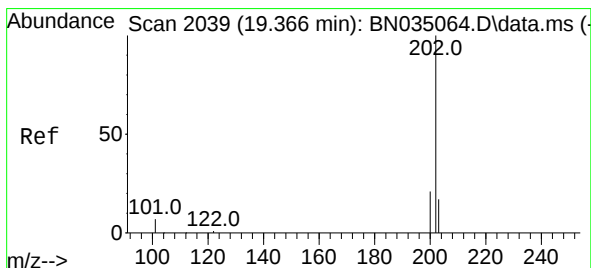
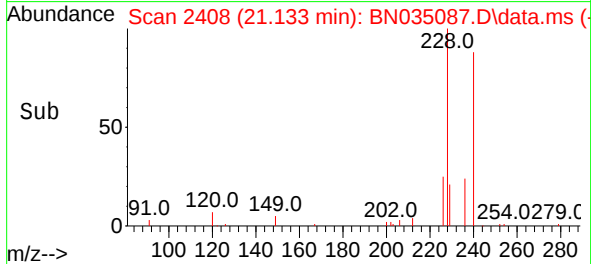
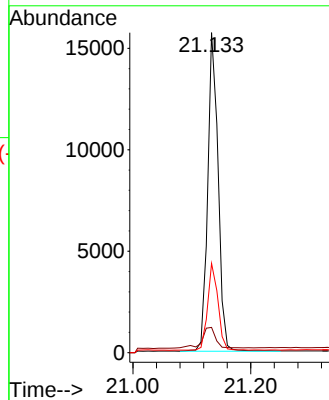
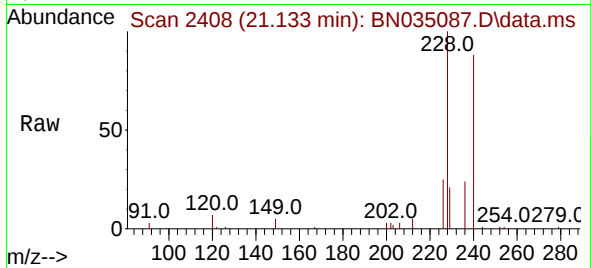
Tgt Ion:240 Resp: 19193

Ion Ratio Lower Upper

240 100

120 7.9 3.8 5.6#

236 27.9 22.2 33.2



#30

Pyrene

Concen: 1.163 ng

RT: 19.368 min Scan# 2041

Delta R.T. 0.002 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

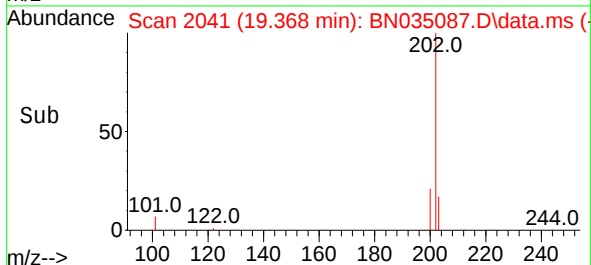
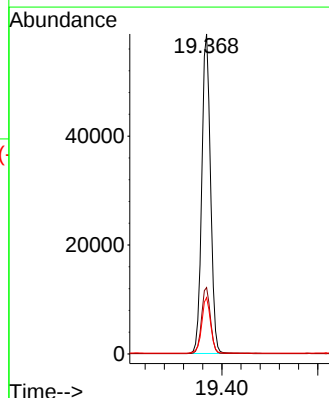
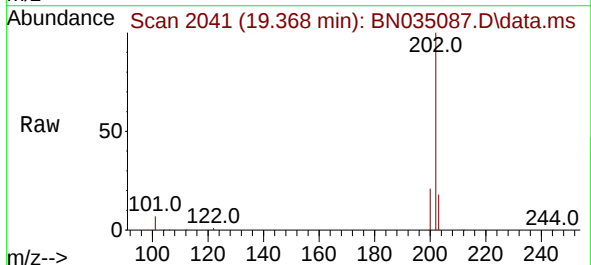
Tgt Ion:202 Resp: 74314

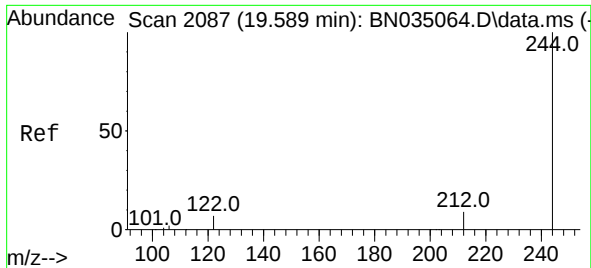
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.7 14.2 21.4

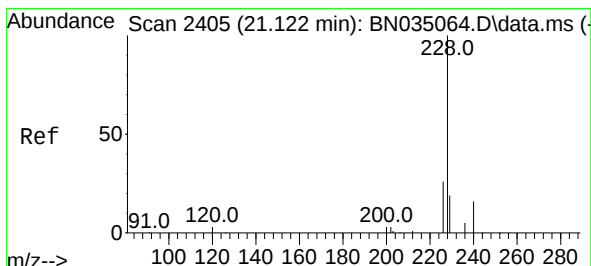
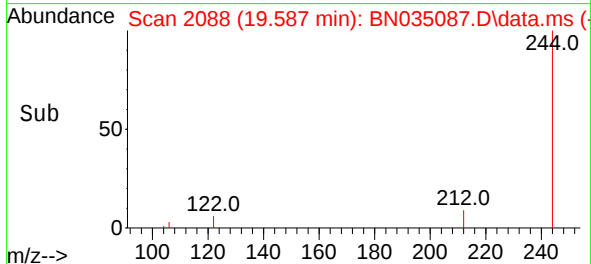
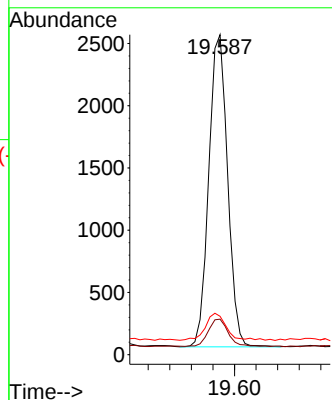
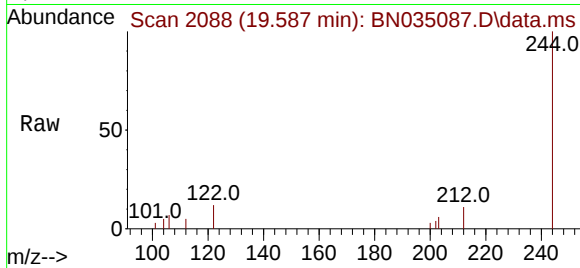




#31
 Terphenyl-d14
 Concen: 0.075 ng
 RT: 19.587 min Scan# 2087
 Delta R.T. -0.002 min
 Lab File: BN035087.D
 Acq: 14 Nov 2024 14:10

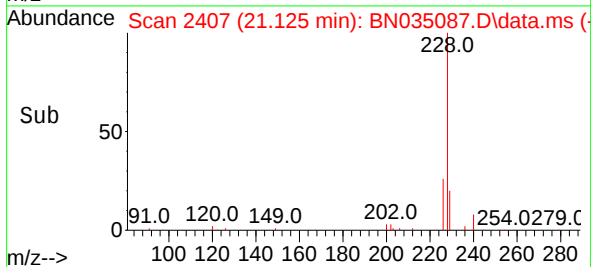
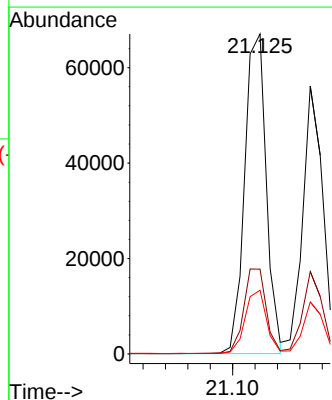
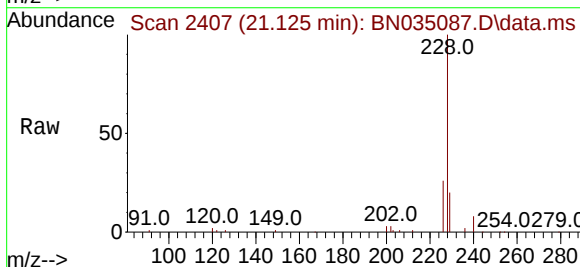
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOILD

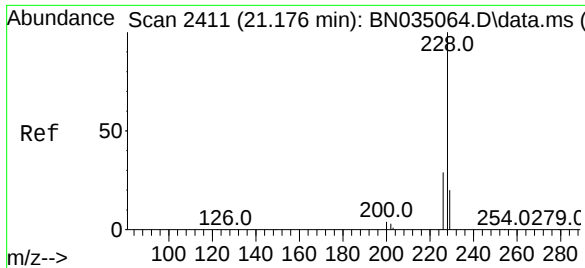
Tgt Ion:244 Resp: 3039
 Ion Ratio Lower Upper
 244 100
 212 11.1 7.6 11.4
 122 12.0 6.1 9.1#



#32
 Benzo(a)anthracene
 Concen: 1.349 ng
 RT: 21.125 min Scan# 2407
 Delta R.T. 0.002 min
 Lab File: BN035087.D
 Acq: 14 Nov 2024 14:10

Tgt Ion:228 Resp: 90123
 Ion Ratio Lower Upper
 228 100
 226 26.5 21.4 32.0
 229 19.9 15.7 23.5





#33

Chrysene

Concen: 1.060 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILDL

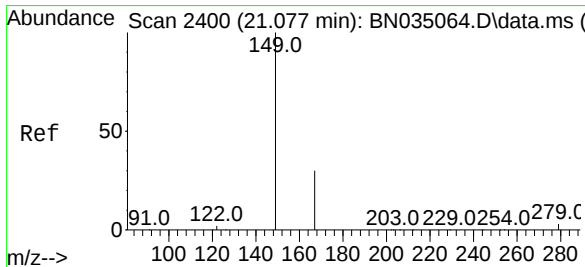
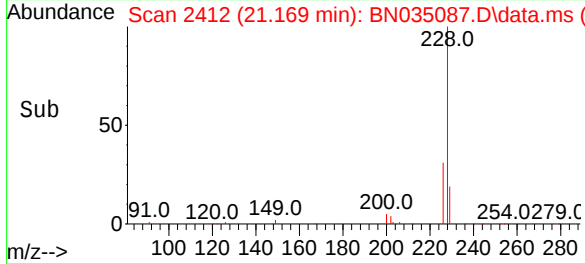
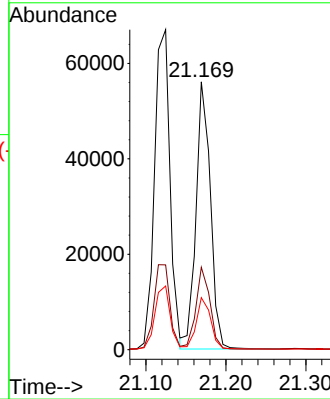
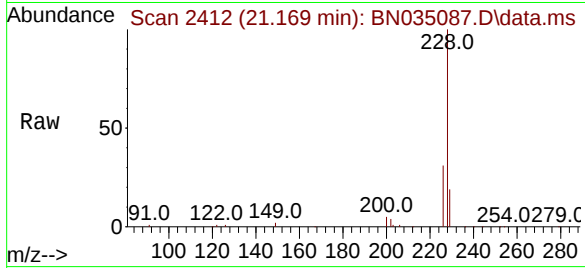
Tgt Ion:228 Resp: 70164

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

229 19.4 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.356 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

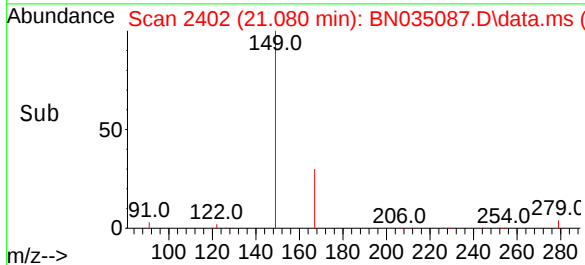
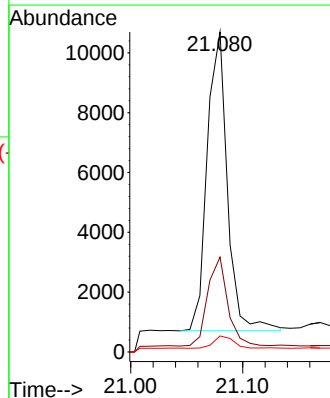
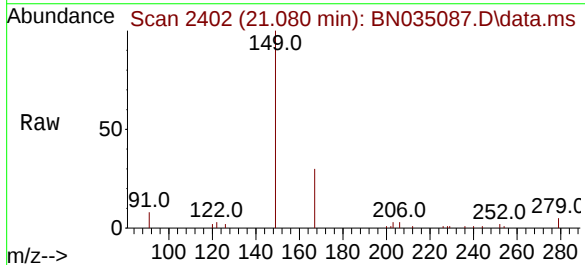
Tgt Ion:149 Resp: 12480

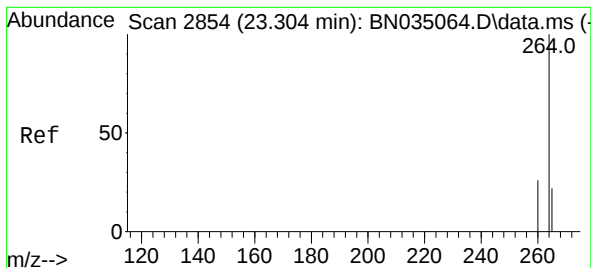
Ion Ratio Lower Upper

149 100

167 30.0 23.2 34.8

279 4.3 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILDL

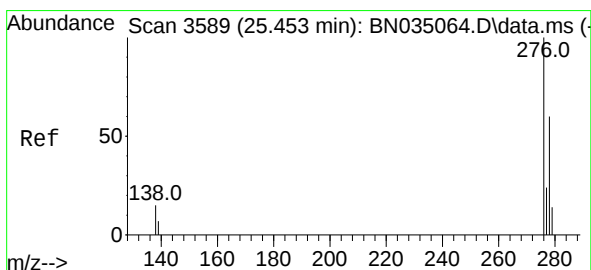
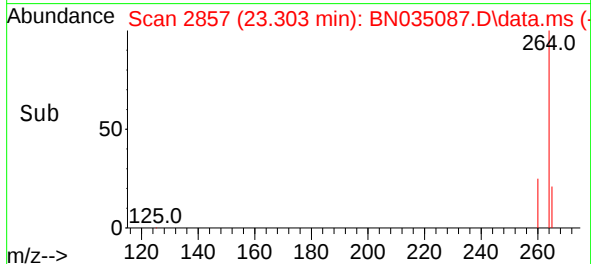
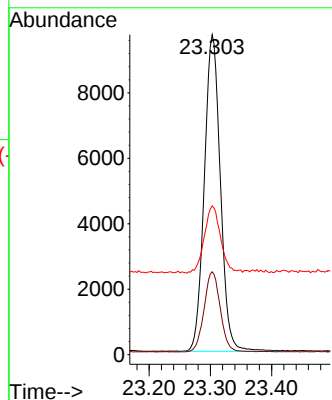
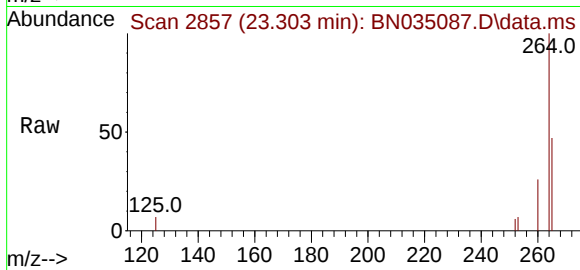
Tgt Ion:264 Resp: 17654

Ion Ratio Lower Upper

264 100

260 25.9 20.9 31.3

265 46.5 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.601 ng

RT: 25.455 min Scan# 3593

Delta R.T. 0.002 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

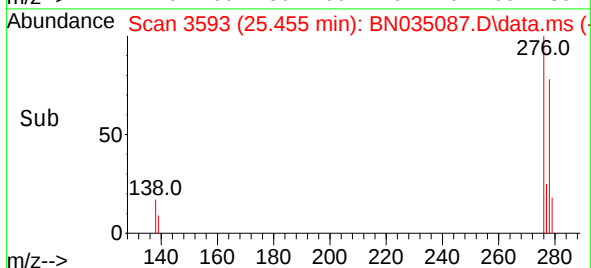
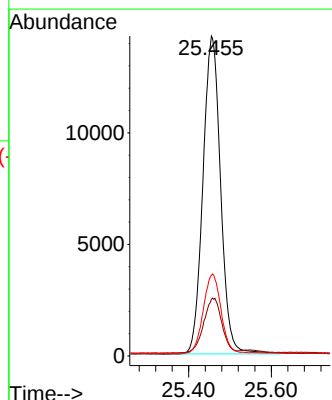
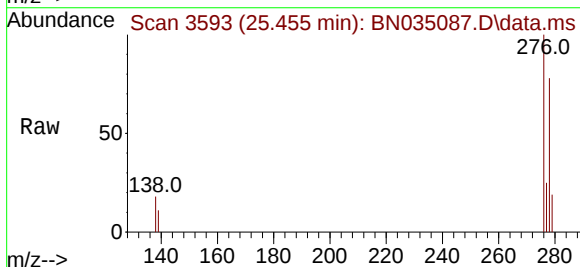
Tgt Ion:276 Resp: 42313

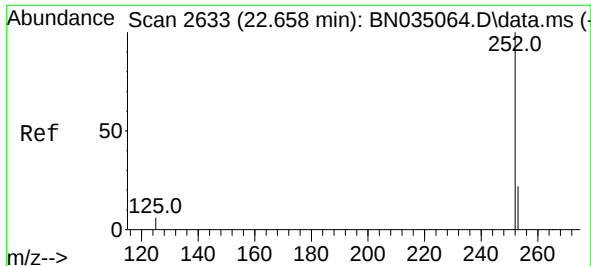
Ion Ratio Lower Upper

276 100

138 17.7 13.0 19.4

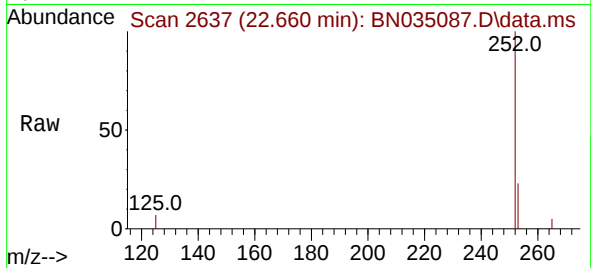
277 24.8 19.8 29.6



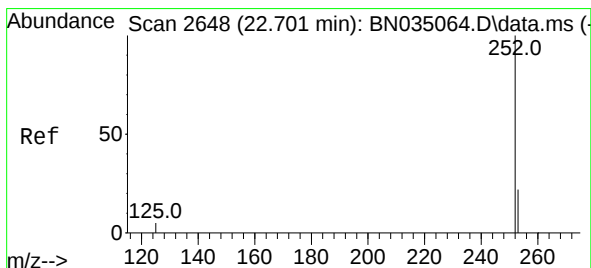
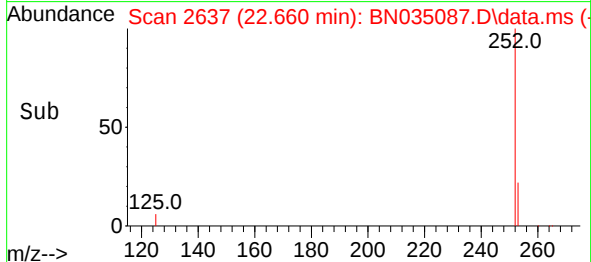
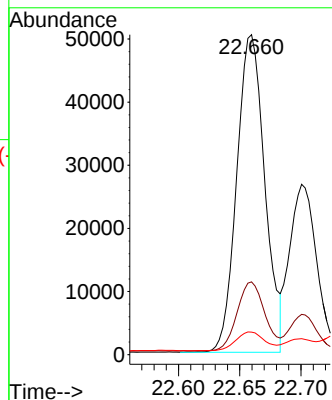


#37
Benzo(b)fluoranthene
Concen: 1.349 ng
RT: 22.660 min Scan# 2637
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

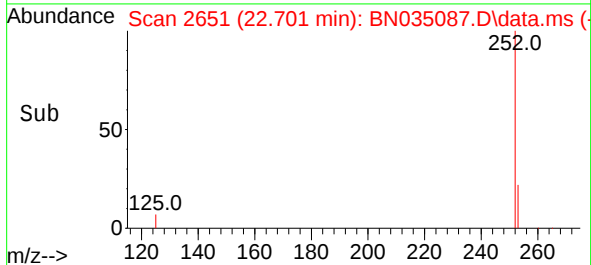
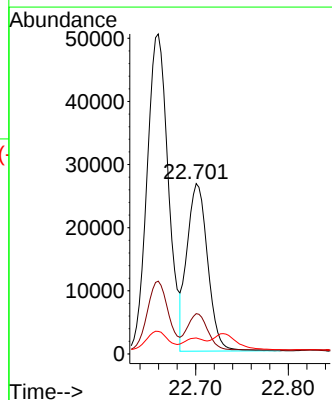
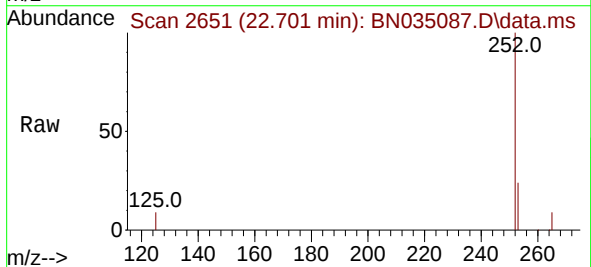


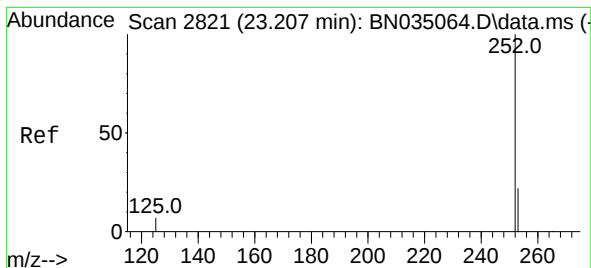
Tgt Ion:252 Resp: 80139
Ion Ratio Lower Upper
252 100
253 22.8 19.3 28.9
125 7.1 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 0.689 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:252 Resp: 40922
Ion Ratio Lower Upper
252 100
253 23.6 19.5 29.3
125 9.4 6.5 9.7





#39

Benzo(a)pyrene

Concen: 1.333 ng

RT: 23.209 min Scan# 2821

Delta R.T. 0.002 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILD

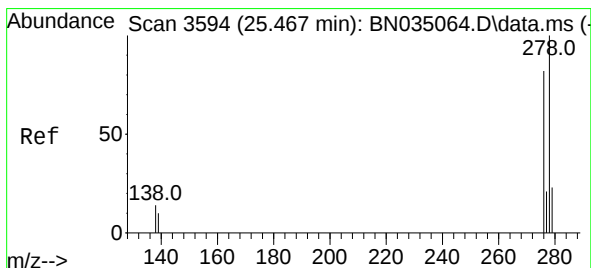
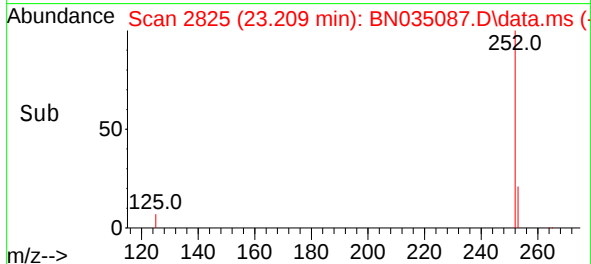
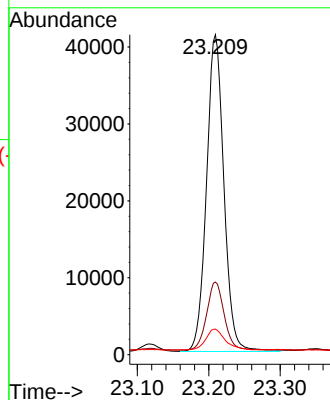
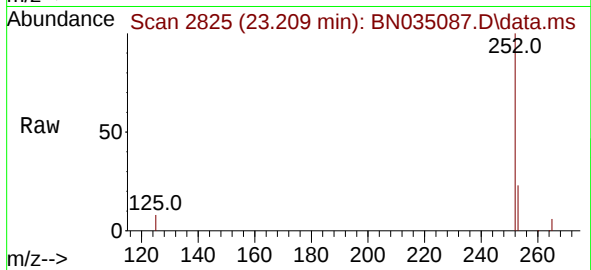
Tgt Ion:252 Resp: 69681

Ion Ratio Lower Upper

252 100

253 22.7 20.1 30.1

125 8.0 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.795 ng

RT: 25.472 min Scan# 3599

Delta R.T. 0.005 min

Lab File: BN035087.D

Acq: 14 Nov 2024 14:10

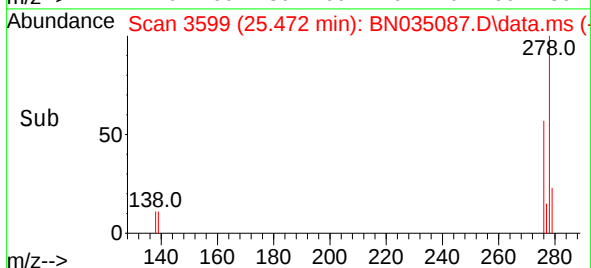
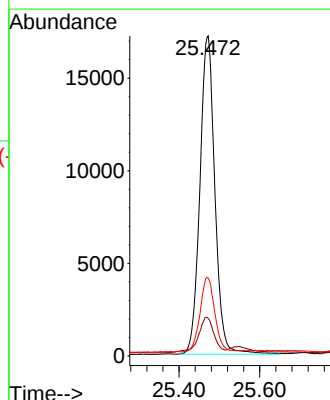
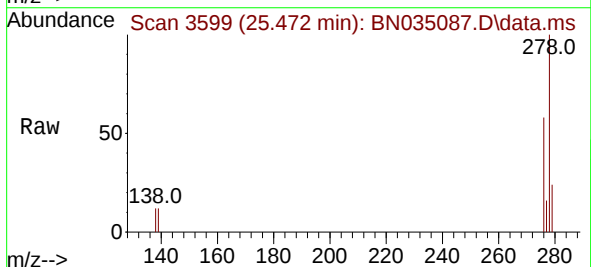
Tgt Ion:278 Resp: 44339

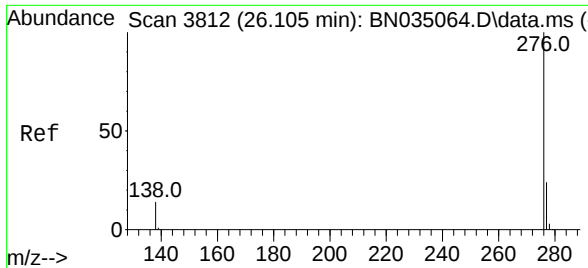
Ion Ratio Lower Upper

278 100

139 11.7 9.3 13.9

279 24.4 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.245 ng

RT: 26.107 min Scan# 3816

Delta R.T. 0.002 min

Lab File: BN035087.D

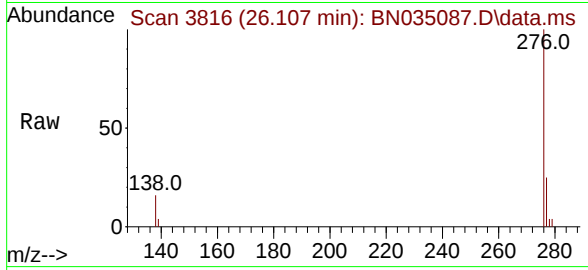
Acq: 14 Nov 2024 14:10

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILD



Tgt Ion:276 Resp: 14526

Ion Ratio Lower Upper

276 100

277 25.0 19.9 29.9

138 16.5 11.6 17.4

