

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051024\
 Data File : BN031459.D
 Acq On : 10 May 2024 11:09
 Operator : MA/JU
 Sample : P2252-13DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOILD

Quant Time: May 10 11:38:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 02:12:24 2024
 Response via : Initial Calibration

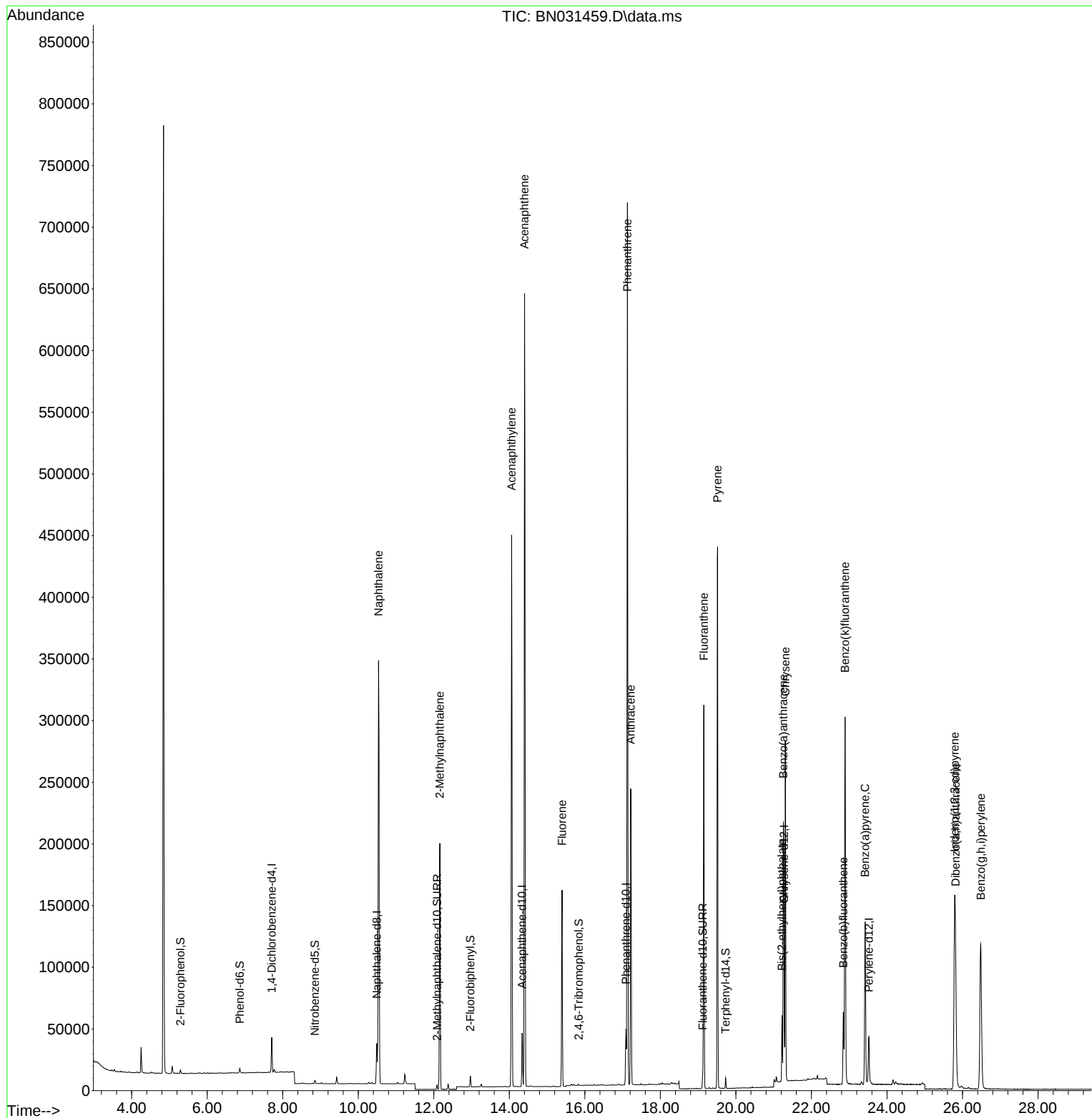
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.711	152	13551	0.400	ng	0.00
7) Naphthalene-d8	10.496	136	44724	0.400	ng	# 0.00
13) Acenaphthene-d10	14.338	164	26672	0.400	ng	-0.01
19) Phenanthrene-d10	17.091	188	61092	0.400	ng	# 0.00
29) Chrysene-d12	21.274	240	51704	0.400	ng	0.00
35) Perylene-d12	23.519	264	51191	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.292	112	2366	0.061	ng	0.00
5) Phenol-d6	6.866	99	3495	0.067	ng	0.00
8) Nitrobenzene-d5	8.852	82	2208	0.069	ng	-0.01
11) 2-Methylnaphthalene-d10	12.089	152	4797	0.067	ng	0.00
14) 2,4,6-Tribromophenol	15.837	330	591	0.058	ng	0.00
15) 2-Fluorobiphenyl	12.970	172	7009	0.068	ng	-0.01
27) Fluoranthene-d10	19.119	212	11751	0.069	ng	0.00
31) Terphenyl-d14	19.727	244	7819	0.062	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.539	128	450125	3.621	ng	96
12) 2-Methylnaphthalene	12.160	142	142813	1.685	ng	99
16) Acenaphthylene	14.060	152	487360	3.632	ng	100
17) Acenaphthene	14.402	154	328128	3.921	ng	99
18) Fluorene	15.397	166	98098	0.896	ng	99
25) Phenanthrene	17.128	178	688161	4.025	ng	100
26) Anthracene	17.215	178	249228	1.473	ng	100
28) Fluoranthene	19.151	202	277513	1.336	ng	100
30) Pyrene	19.514	202	392800	1.876	ng	100
32) Benzo(a)anthracene	21.256	228	181444	0.910	ng	100
33) Chrysene	21.310	228	215561	1.135	ng	99
34) Bis(2-ethylhexyl)phtha...	21.220	149	46485	0.398	ng	99
36) Indeno(1,2,3-cd)pyrene	25.794	276	258950	1.269	ng	96
37) Benzo(b)fluoranthene	22.847	252	69937	0.381	ng	100
38) Benzo(k)fluoranthene	22.891	252	379194	2.180	ng	97
39) Benzo(a)pyrene	23.423	252	188182	1.178	ng	97
40) Dibenzo(a,h)anthracene	25.814	278	128075	0.792	ng	98
41) Benzo(g,h,i)perylene	26.484	276	243632	1.401	ng	97

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

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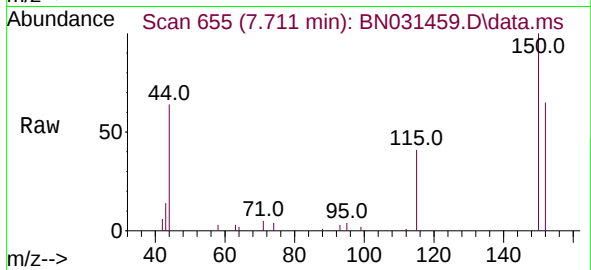
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 10 02:12:24 2024
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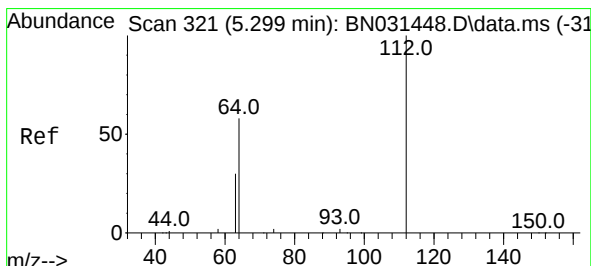
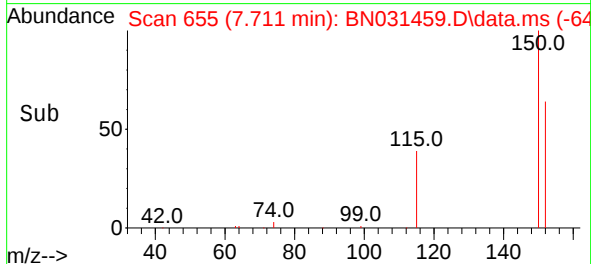
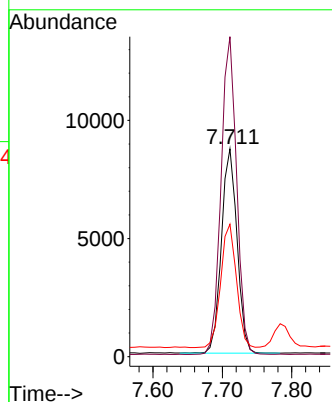


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.711 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

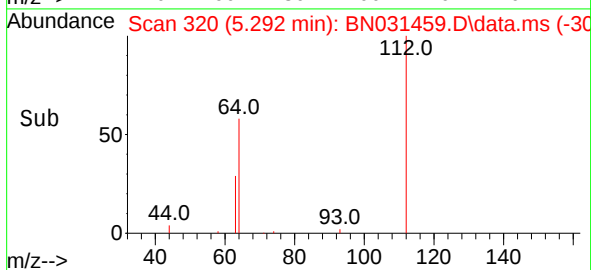
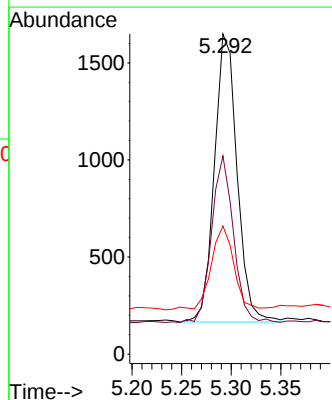
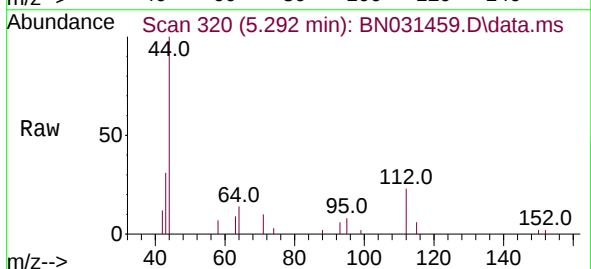


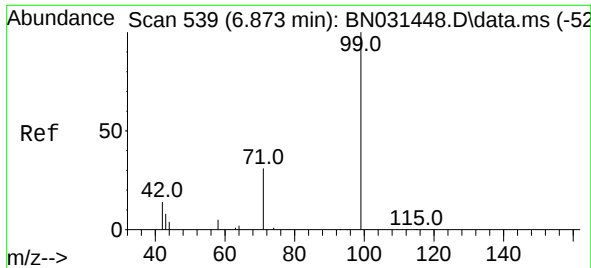
Tgt Ion:152 Resp: 13551
Ion Ratio Lower Upper
152 100
150 154.0 119.3 178.9
115 63.8 54.8 82.2



#4
2-Fluorophenol
Concen: 0.061 ng
RT: 5.292 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

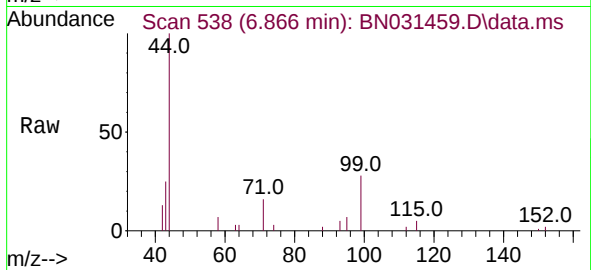
Tgt Ion:112 Resp: 2366
Ion Ratio Lower Upper
112 100
64 55.4 44.0 66.0
63 29.1 22.2 33.4



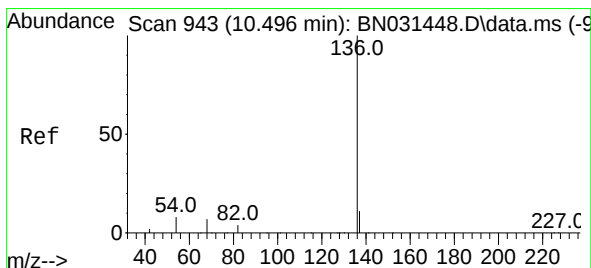
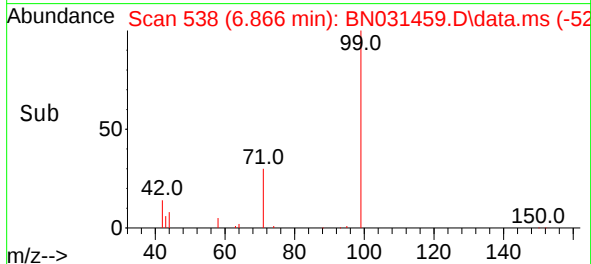
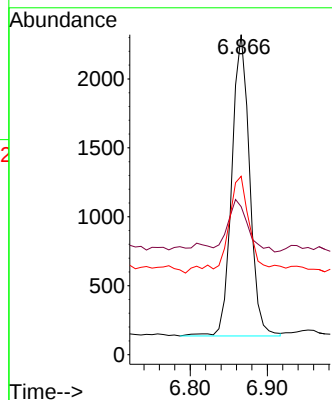


#5
Phenol-d6
Concen: 0.067 ng
RT: 6.866 min Scan# 538
Delta R.T. -0.007 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Instrument :
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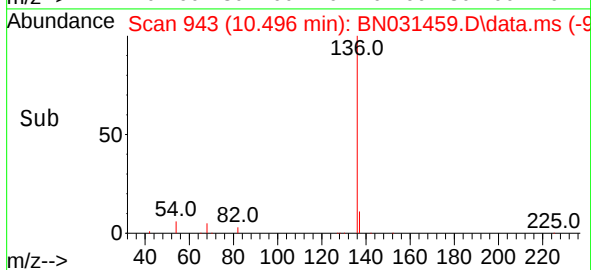
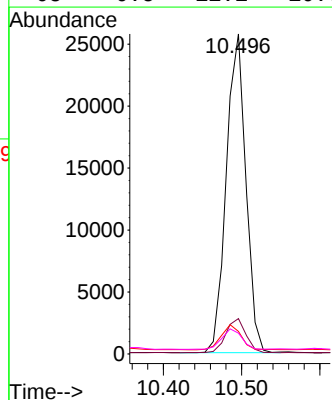
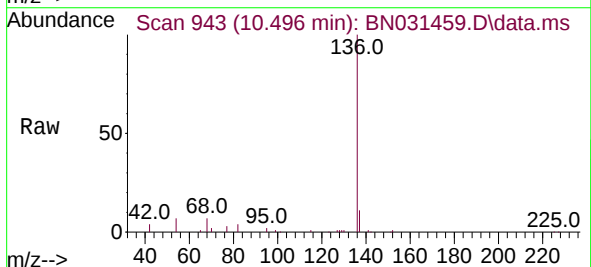


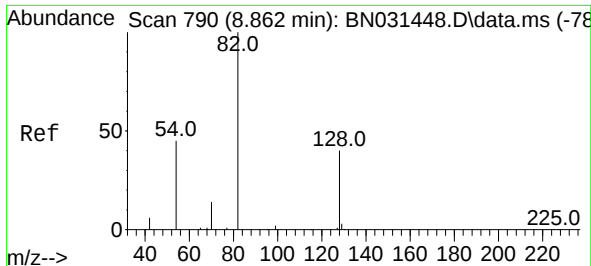
Tgt Ion: 99 Resp: 3495
Ion Ratio Lower Upper
99 100
42 19.4 13.5 20.3
71 34.4 26.1 39.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.496 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Tgt Ion: 136 Resp: 44724
Ion Ratio Lower Upper
136 100
137 11.1 10.1 15.1
54 7.1 10.5 15.7#
68 6.5 11.1 16.7#

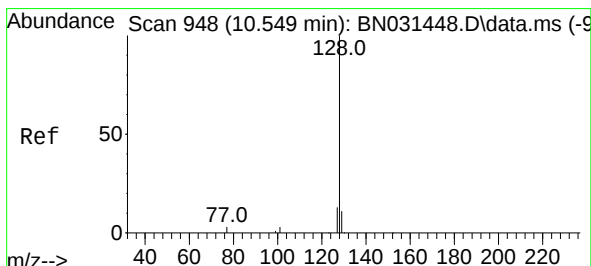
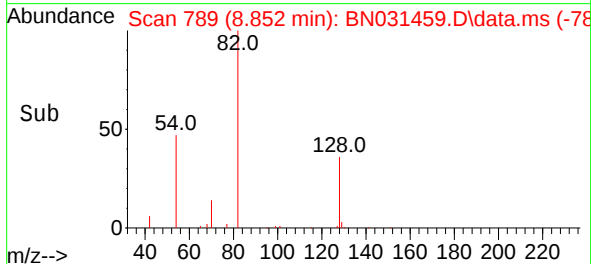
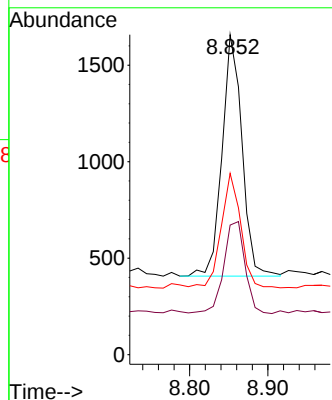
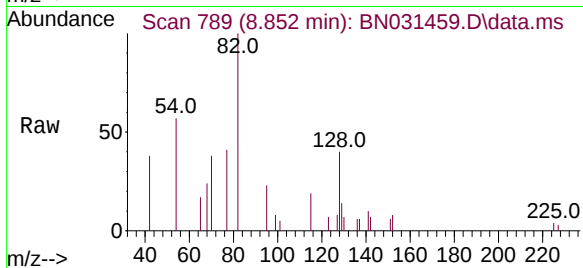




#8
Nitrobenzene-d5
Concen: 0.069 ng
RT: 8.852 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

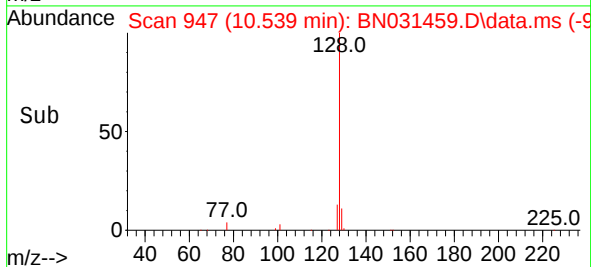
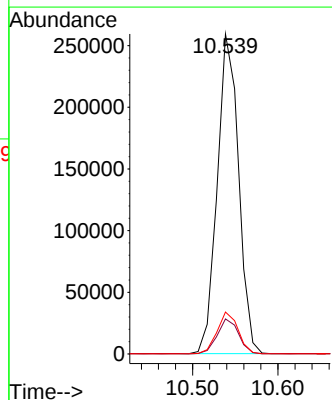
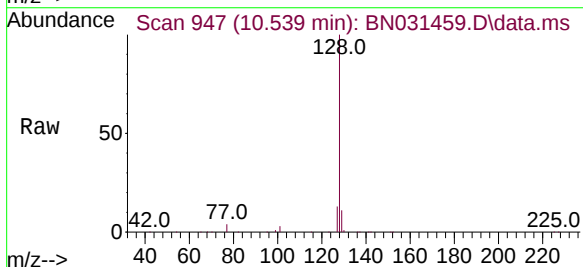
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

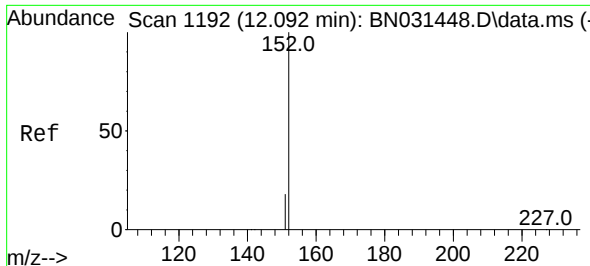
Tgt Ion: 82 Resp: 2208
Ion Ratio Lower Upper
82 100
128 40.5 29.0 43.6
54 56.6 37.2 55.8#



#9
Naphthalene
Concen: 3.621 ng
RT: 10.539 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Tgt Ion: 128 Resp: 450125
Ion Ratio Lower Upper
128 100
129 11.0 10.2 15.4
127 13.1 11.7 17.5

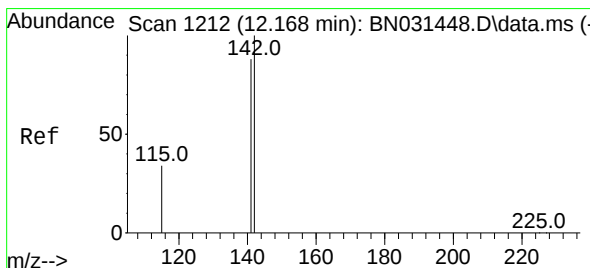
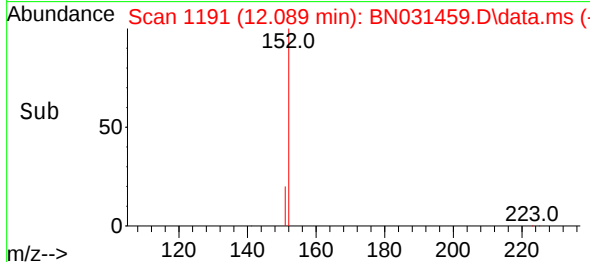
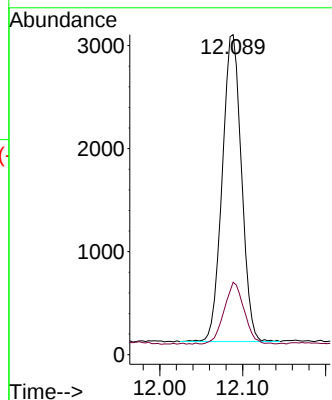
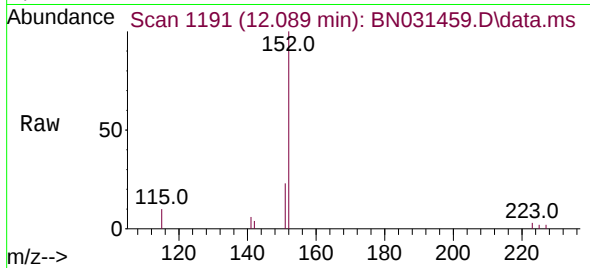




#11
2-Methylnaphthalene-d10
Concen: 0.067 ng
RT: 12.089 min Scan# 1191
Delta R.T. -0.004 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

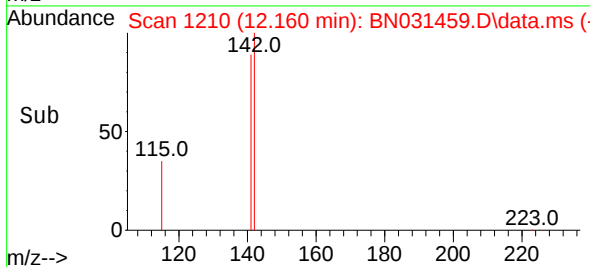
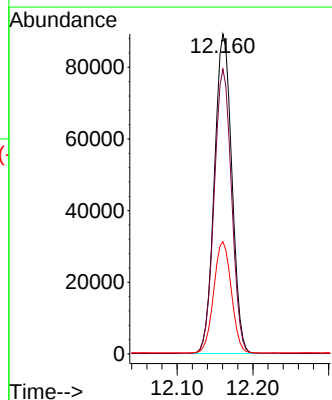
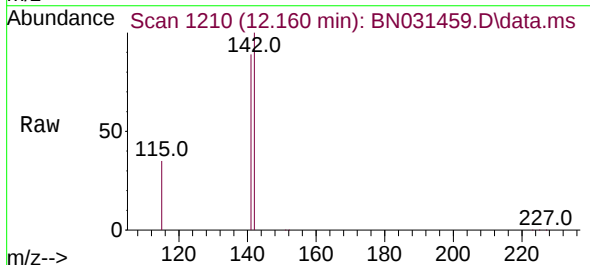
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

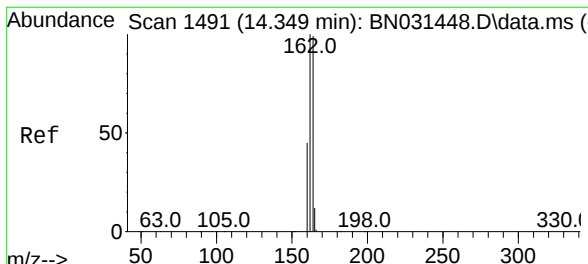
Tgt Ion:152 Resp: 4797
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 1.685 ng
RT: 12.160 min Scan# 1210
Delta R.T. -0.008 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Tgt Ion:142 Resp: 142813
Ion Ratio Lower Upper
142 100
141 89.0 71.0 106.6
115 35.1 30.2 45.2

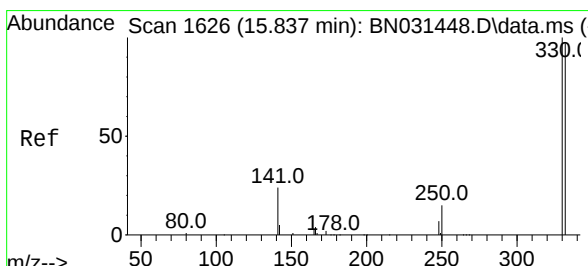
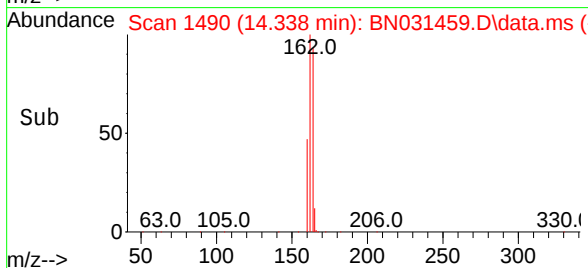
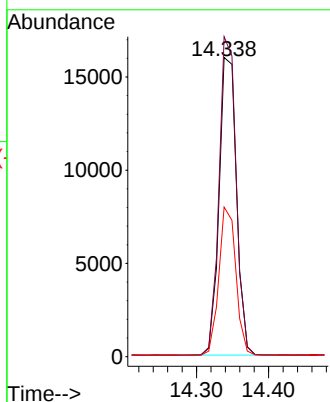
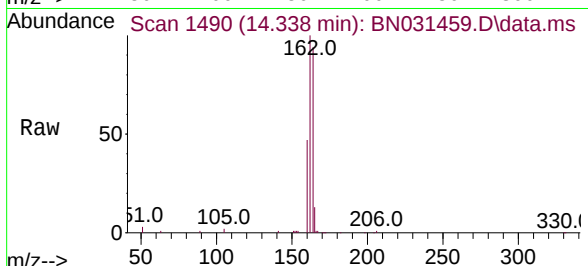




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.338 min Scan# 1490
 Delta R.T. -0.011 min
 Lab File: BN031459.D
 Acq: 10 May 2024 11:09

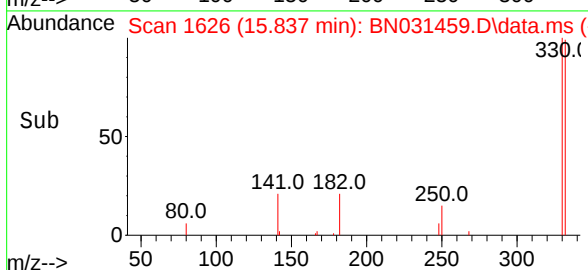
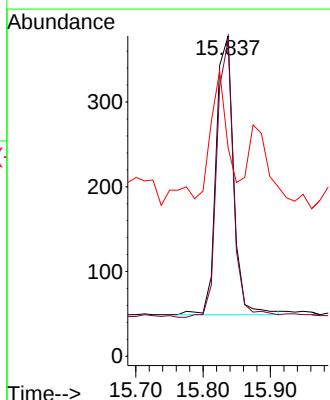
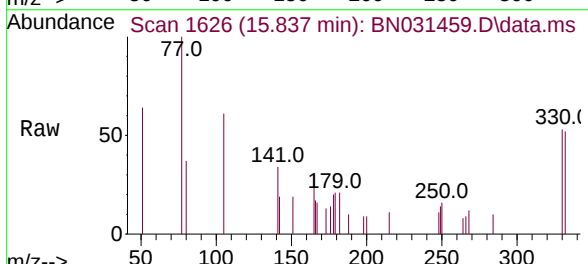
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 PT-PAH-SOILD

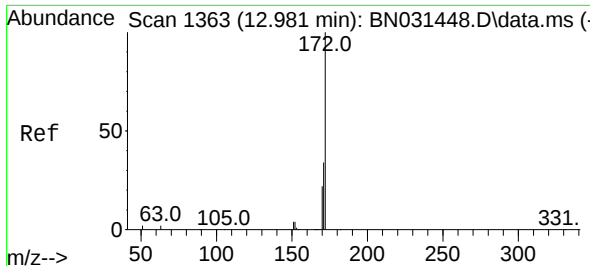
Tgt Ion:	164	Resp:	26672
Ion Ratio	Lower	Upper	
164	100		
162	106.9	81.2	121.8
160	50.0	37.0	55.6



#14
 2,4,6-Tribromophenol
 Concen: 0.058 ng
 RT: 15.837 min Scan# 1626
 Delta R.T. -0.000 min
 Lab File: BN031459.D
 Acq: 10 May 2024 11:09

Tgt Ion:	330	Resp:	591
Ion Ratio	Lower	Upper	
330	100		
332	95.4	76.6	114.8
141	41.6	37.0	55.4





#15

2-Fluorobiphenyl

Concen: 0.068 ng

RT: 12.970 min Scan# 1464

Delta R.T. -0.011 min

Lab File: BN031459.D

Acq: 10 May 2024 11:09

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILDL

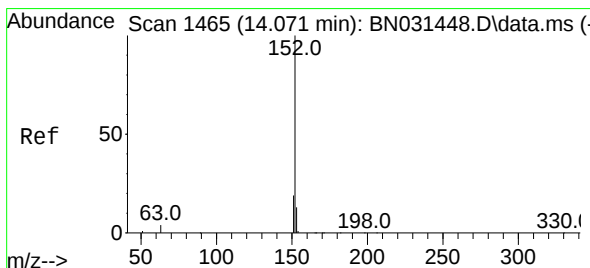
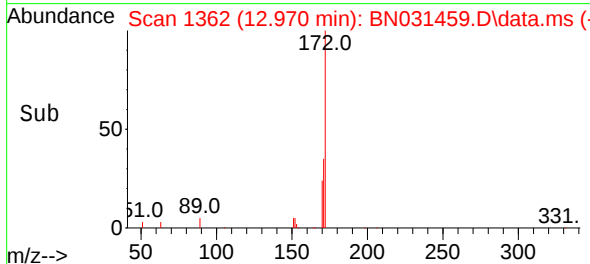
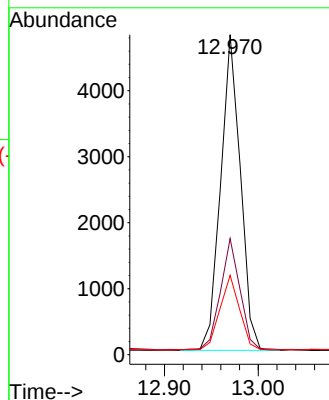
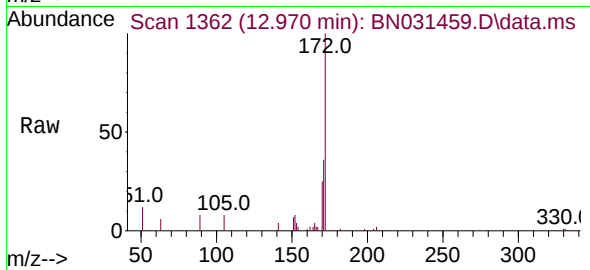
Tgt Ion:172 Resp: 7009

Ion Ratio Lower Upper

172 100

171 36.3 27.8 41.8

170 24.8 18.3 27.5



#16

Acenaphthylene

Concen: 3.632 ng

RT: 14.060 min Scan# 1464

Delta R.T. -0.011 min

Lab File: BN031459.D

Acq: 10 May 2024 11:09

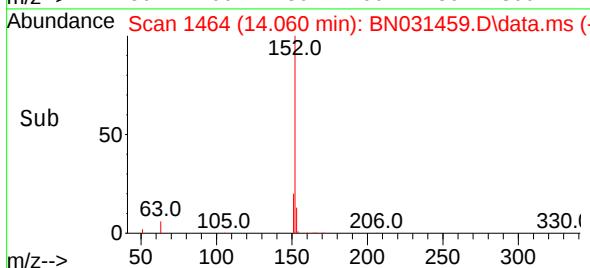
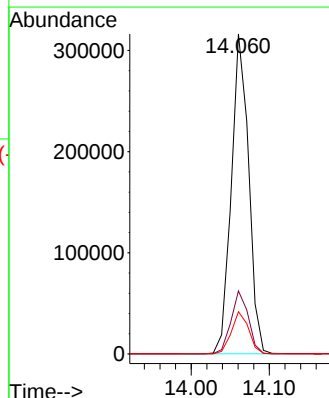
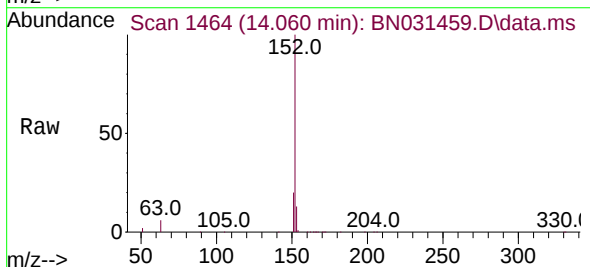
Tgt Ion:152 Resp: 487360

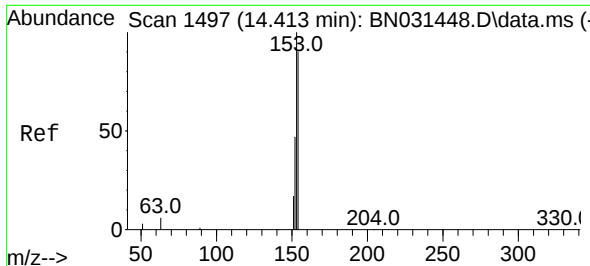
Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 13.1 10.5 15.7

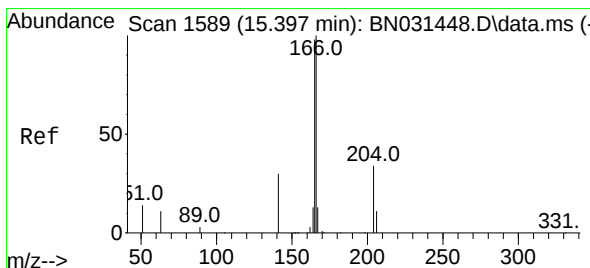
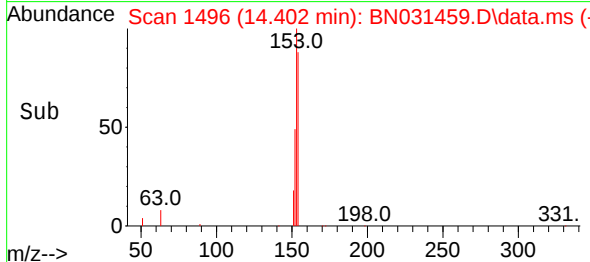
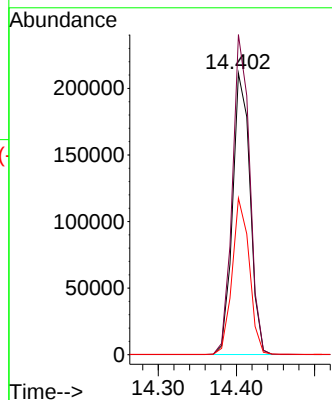
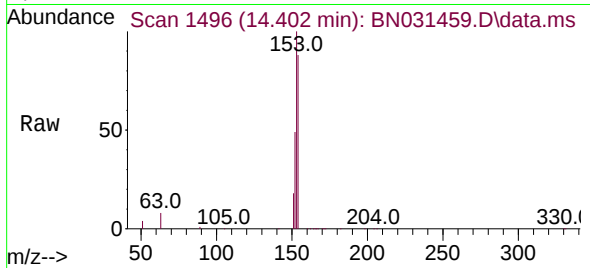




#17
Acenaphthene
Concen: 3.921 ng
RT: 14.402 min Scan# 1496
Delta R.T. -0.011 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

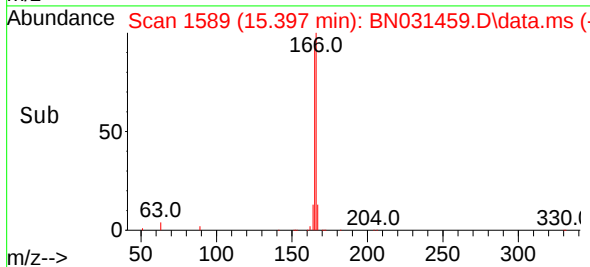
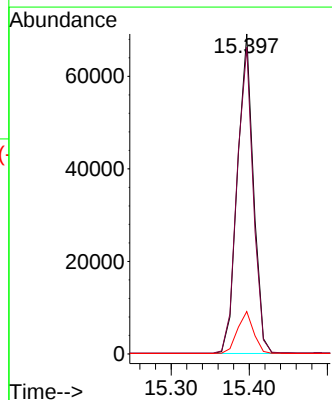
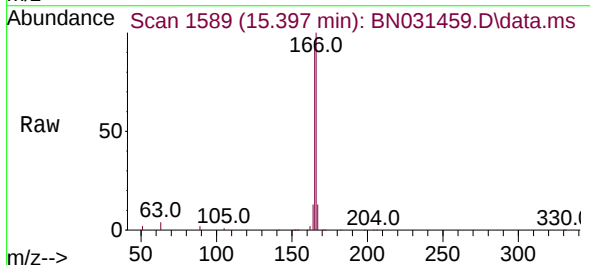
Instrument :
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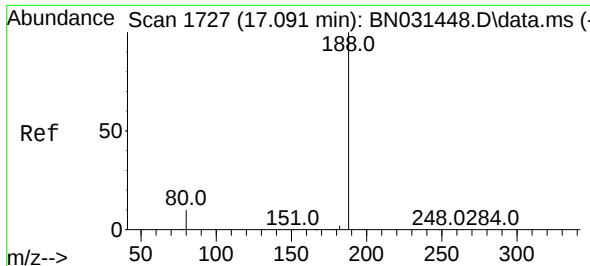
Tgt Ion:154 Resp: 328128
Ion Ratio Lower Upper
154 100
153 112.4 89.1 133.7
152 54.3 42.6 64.0



#18
Fluorene
Concen: 0.896 ng
RT: 15.397 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Tgt Ion:166 Resp: 98098
Ion Ratio Lower Upper
166 100
165 96.8 78.2 117.2
167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.091 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN031459.D

Acq: 10 May 2024 11:09

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILDL

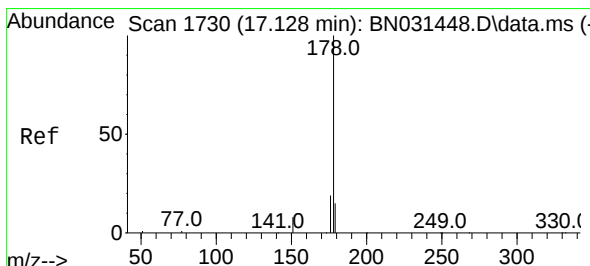
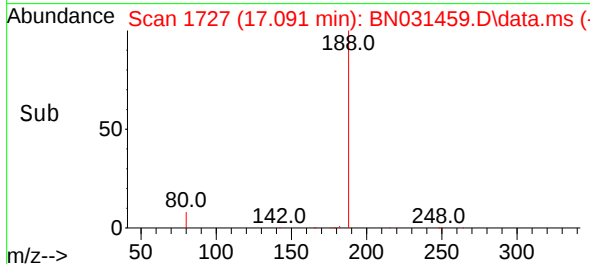
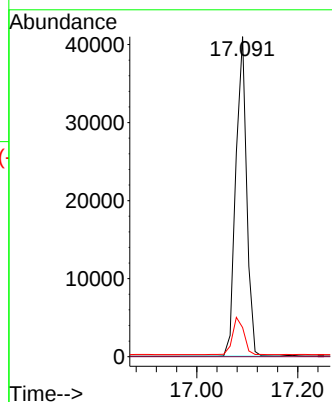
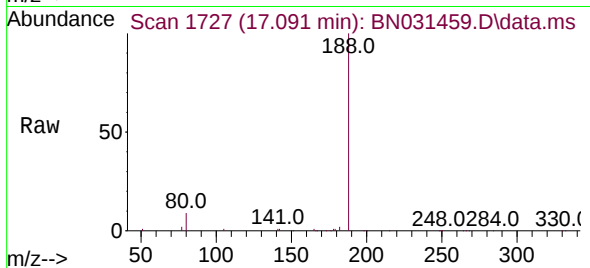
Tgt Ion:188 Resp: 61092

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 9.6 14.4#



#25

Phenanthrene

Concen: 4.025 ng

RT: 17.128 min Scan# 1730

Delta R.T. -0.000 min

Lab File: BN031459.D

Acq: 10 May 2024 11:09

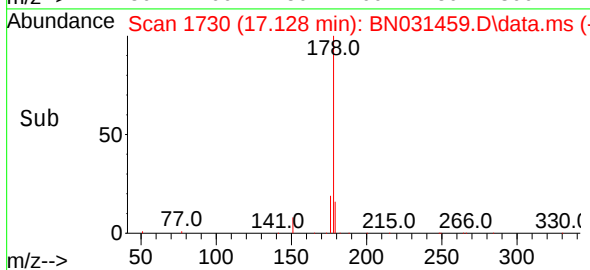
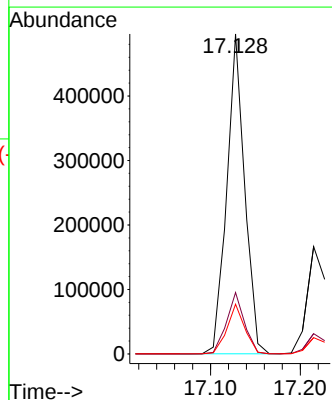
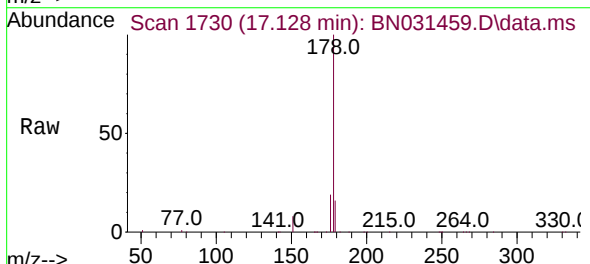
Tgt Ion:178 Resp: 688161

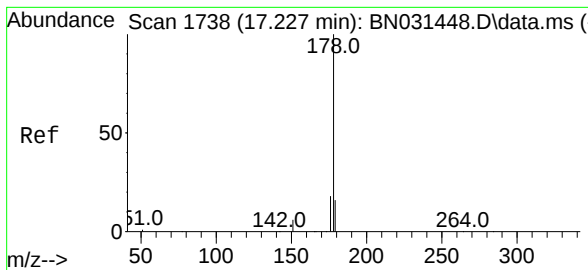
Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.4 12.3 18.5

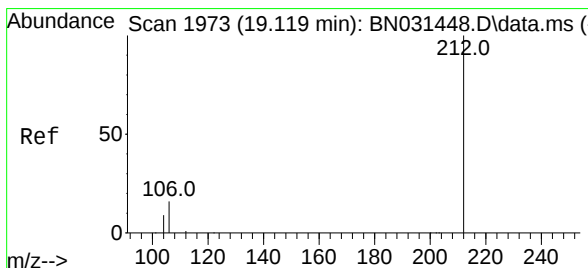
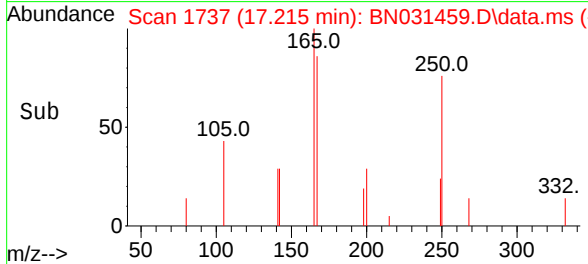
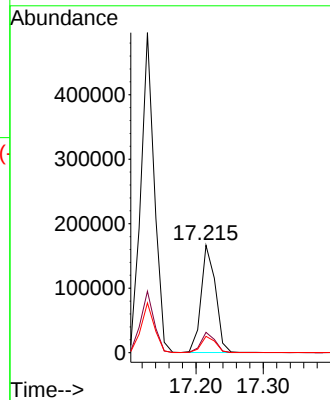
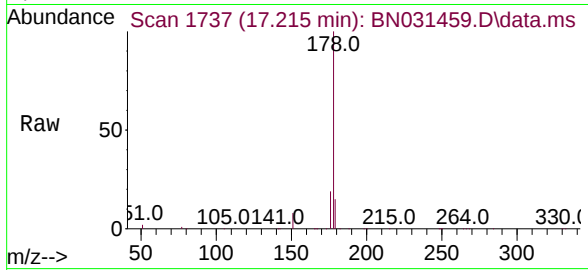




#26
 Anthracene
 Concen: 1.473 ng
 RT: 17.215 min Scan# 1737
 Delta R.T. -0.013 min
 Lab File: BN031459.D
 Acq: 10 May 2024 11:09

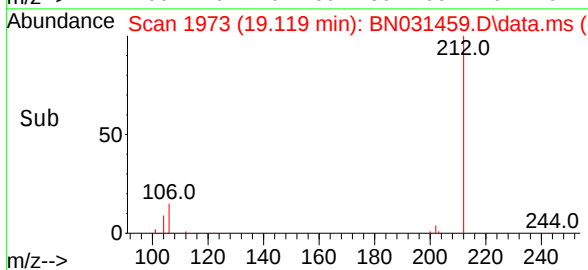
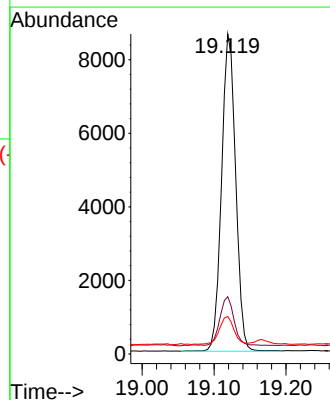
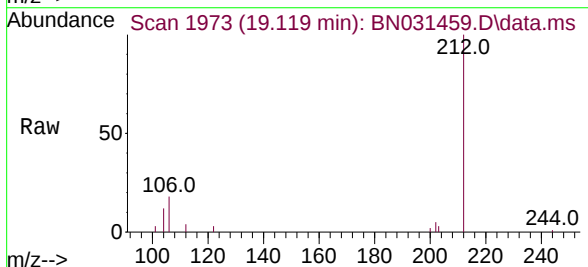
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOILD

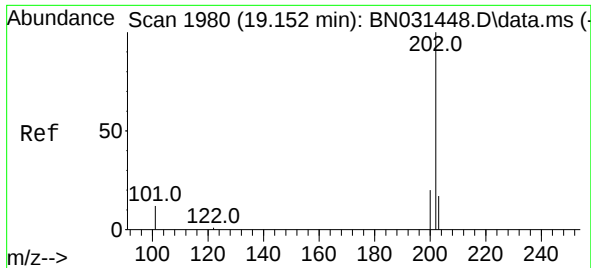
Tgt Ion:178 Resp: 249228
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.9 22.3
 179 15.2 12.4 18.6



#27
 Fluoranthene-d10
 Concen: 0.069 ng
 RT: 19.119 min Scan# 1973
 Delta R.T. -0.000 min
 Lab File: BN031459.D
 Acq: 10 May 2024 11:09

Tgt Ion:212 Resp: 11751
 Ion Ratio Lower Upper
 212 100
 106 15.4 12.0 18.0
 104 9.3 6.9 10.3

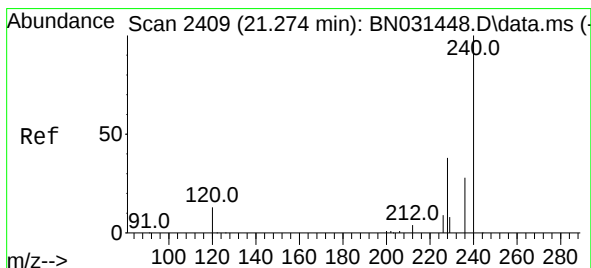
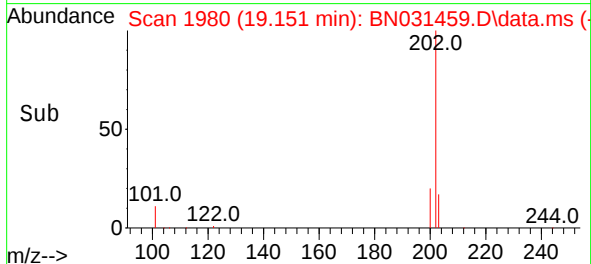
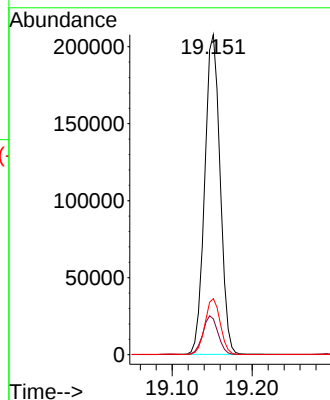
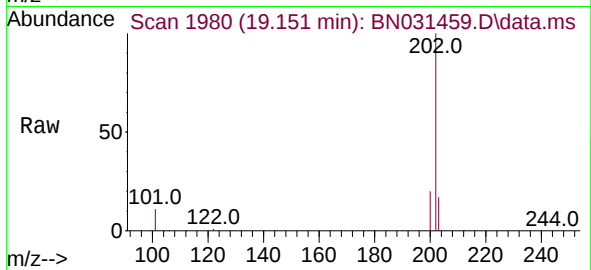




#28
Fluoranthene
Concen: 1.336 ng
RT: 19.151 min Scan# 1980
Delta R.T. -0.000 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

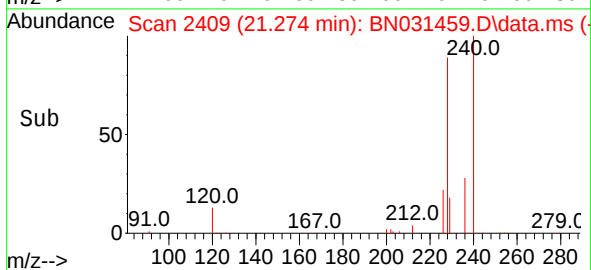
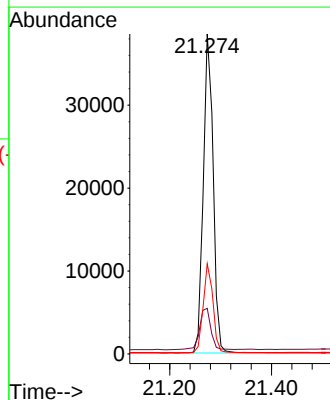
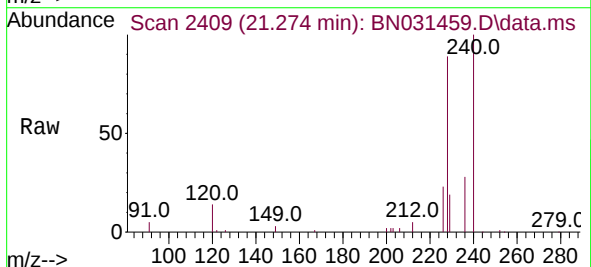
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

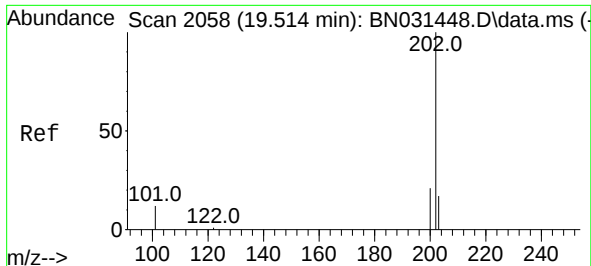
Tgt Ion:202 Resp: 277513
Ion Ratio Lower Upper
202 100
101 11.9 9.8 14.6
203 17.3 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.274 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Tgt Ion:240 Resp: 51704
Ion Ratio Lower Upper
240 100
120 14.3 11.4 17.2
236 28.2 22.2 33.4

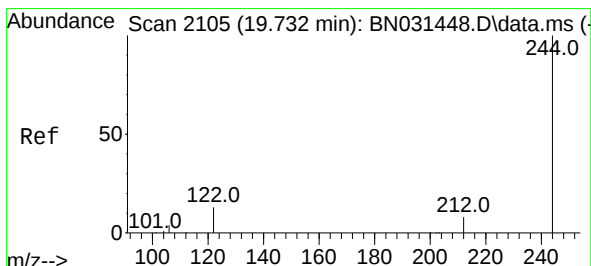
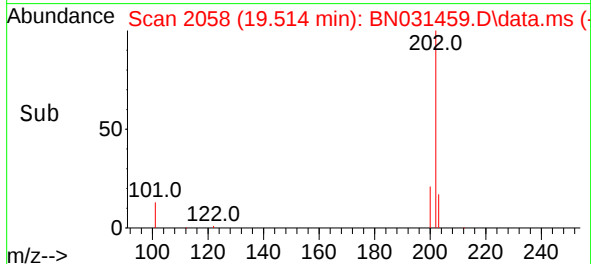
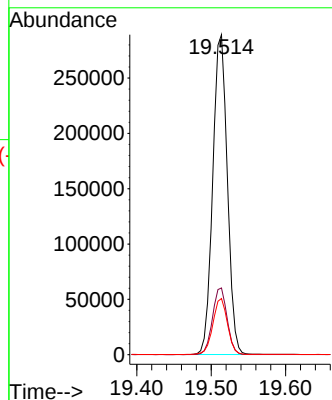
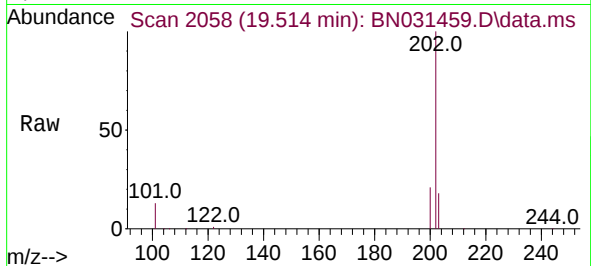




#30
Pyrene
Concen: 1.876 ng
RT: 19.514 min Scan# 2058
Delta R.T. -0.000 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

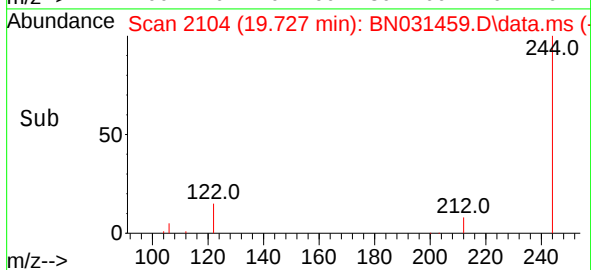
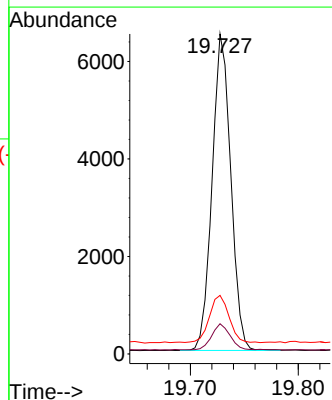
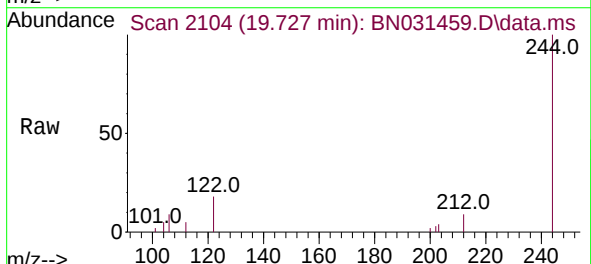
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

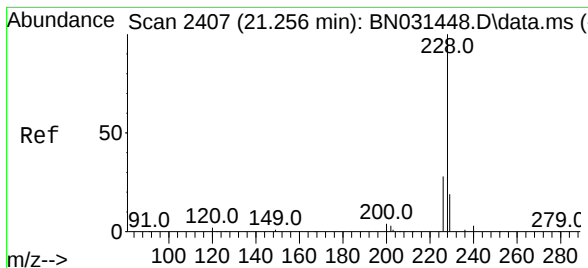
Tgt Ion:202 Resp: 392800
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 17.6 14.3 21.5



#31
Terphenyl-d14
Concen: 0.062 ng
RT: 19.727 min Scan# 2104
Delta R.T. -0.005 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Tgt Ion:244 Resp: 7819
Ion Ratio Lower Upper
244 100
212 9.4 6.5 9.7
122 18.3 11.4 17.2#

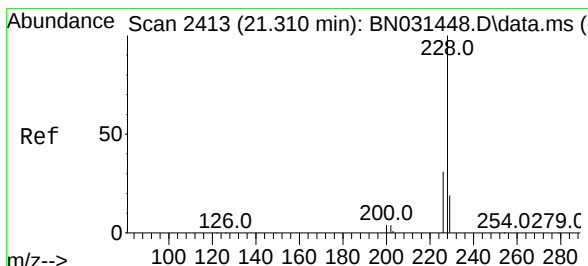
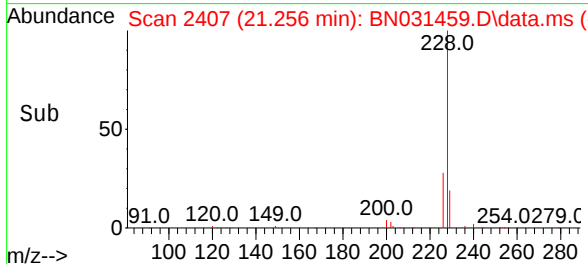
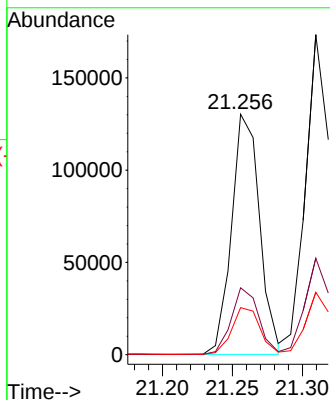
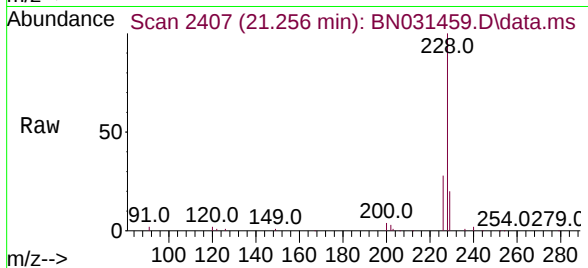




#32
Benzo(a)anthracene
Concen: 0.910 ng
RT: 21.256 min Scan# 2407
Delta R.T. -0.000 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

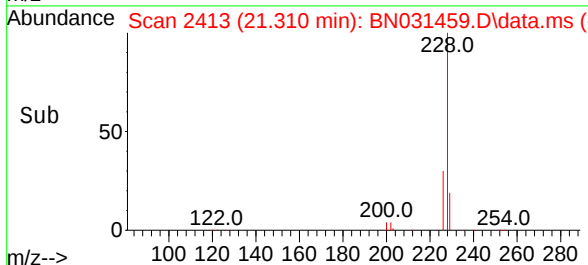
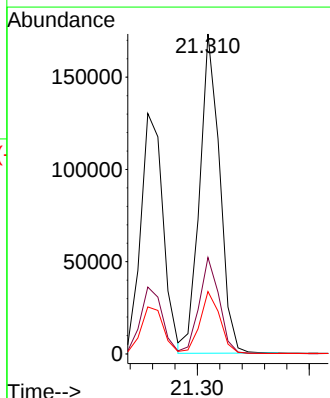
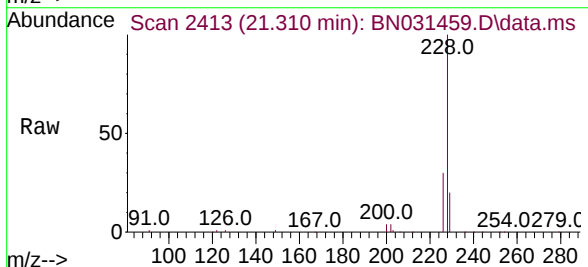
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD

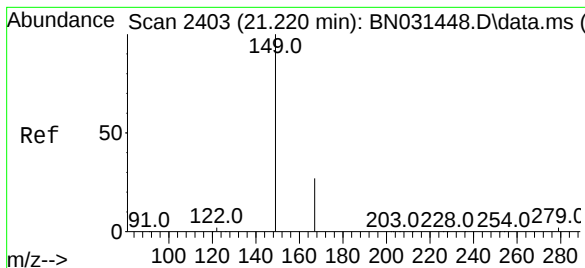
Tgt Ion:228 Resp: 181444
Ion Ratio Lower Upper
228 100
226 27.8 22.4 33.6
229 19.6 15.5 23.3



#33
Chrysene
Concen: 1.135 ng
RT: 21.310 min Scan# 2413
Delta R.T. -0.000 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Tgt Ion:228 Resp: 215561
Ion Ratio Lower Upper
228 100
226 30.1 24.5 36.7
229 19.5 15.8 23.8

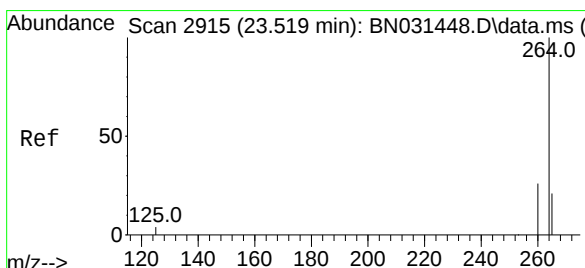
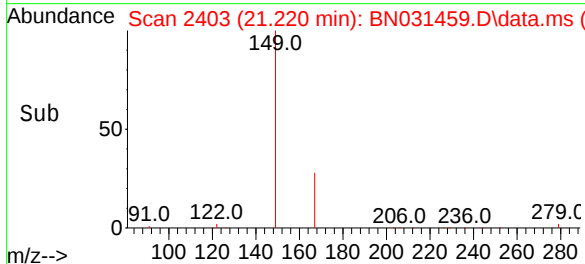
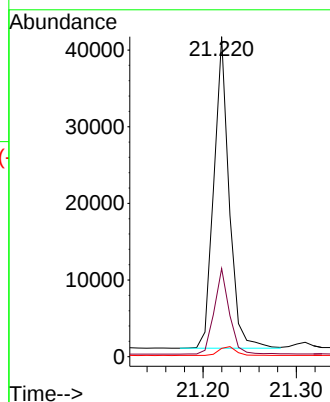
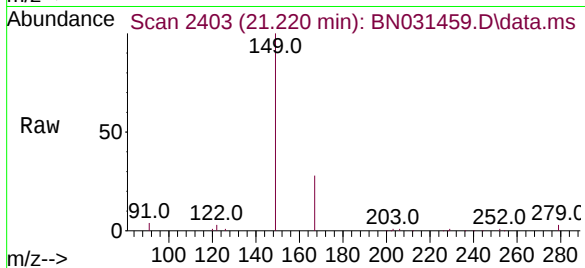




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.398 ng
 RT: 21.220 min Scan# 2403
 Delta R.T. -0.000 min
 Lab File: BN031459.D
 Acq: 10 May 2024 11:09

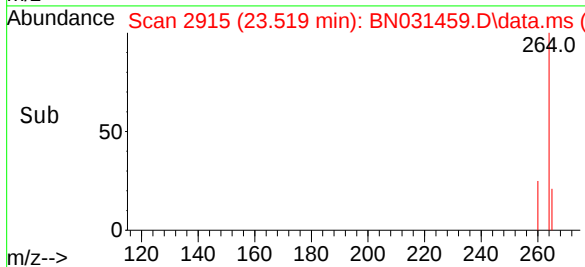
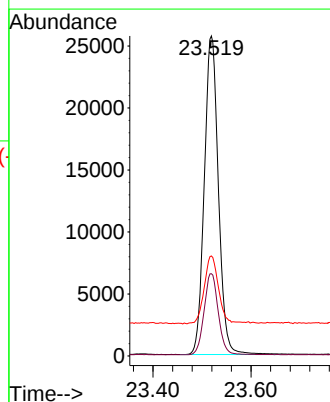
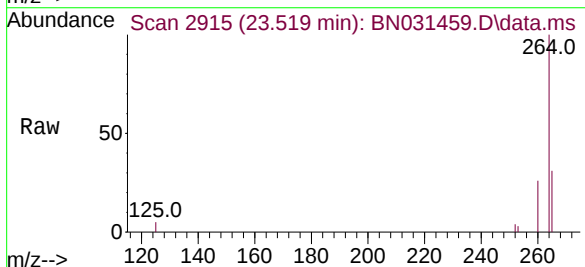
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOILDL

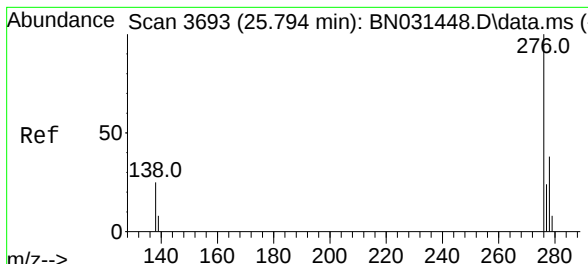
Tgt Ion:149 Resp: 46485
 Ion Ratio Lower Upper
 149 100
 167 27.1 22.1 33.1
 279 3.3 2.7 4.1



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.519 min Scan# 2915
 Delta R.T. -0.000 min
 Lab File: BN031459.D
 Acq: 10 May 2024 11:09

Tgt Ion:264 Resp: 51191
 Ion Ratio Lower Upper
 264 100
 260 25.7 20.6 31.0
 265 31.2 24.0 36.0

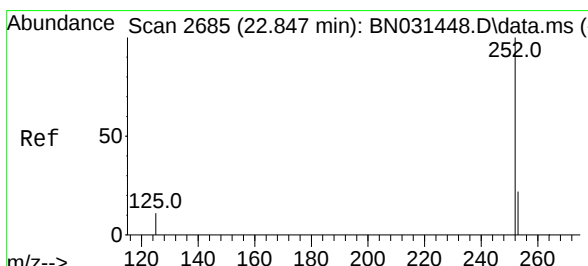
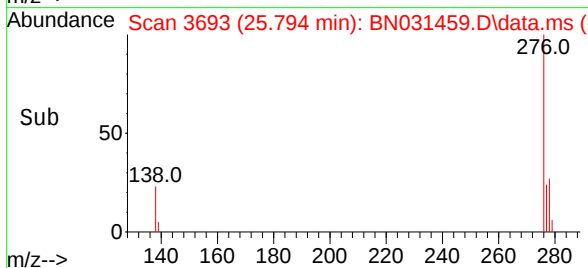
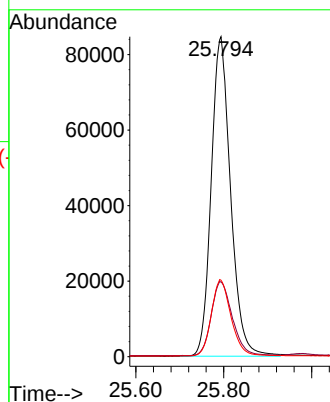
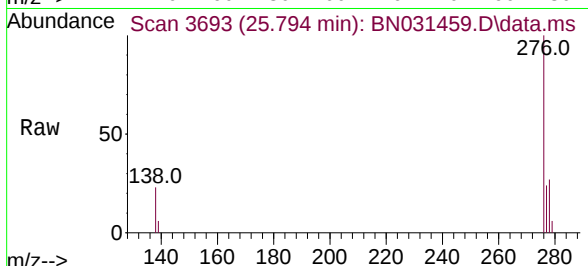




#36
 Indeno(1,2,3-cd)pyrene
 Concen: 1.269 ng
 RT: 25.794 min Scan# 3693
 Delta R.T. -0.000 min
 Lab File: BN031459.D
 Acq: 10 May 2024 11:09

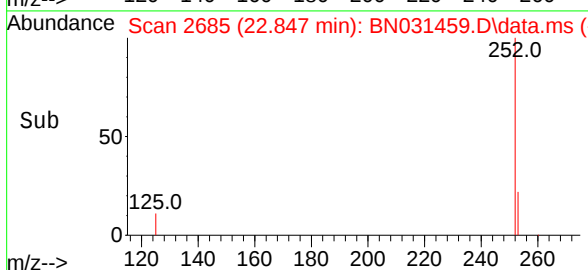
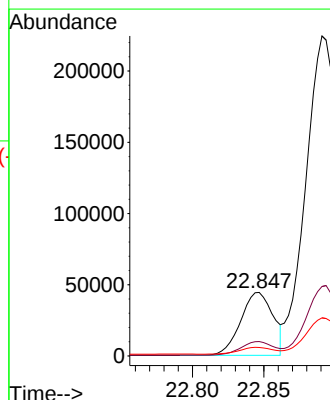
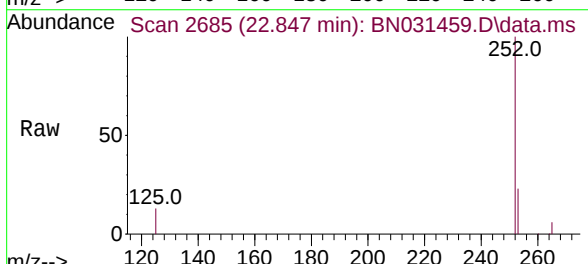
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOILD

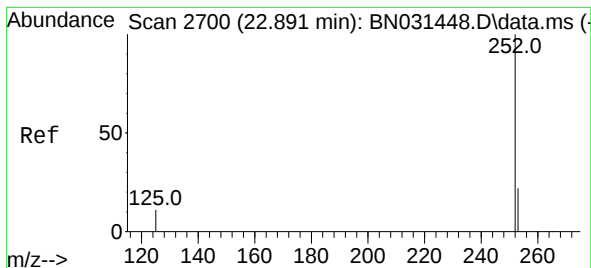
Tgt Ion:276 Resp: 258950
 Ion Ratio Lower Upper
 276 100
 138 25.1 23.0 34.6
 277 24.3 19.9 29.9



#37
 Benzo(b)fluoranthene
 Concen: 0.381 ng
 RT: 22.847 min Scan# 2685
 Delta R.T. -0.000 min
 Lab File: BN031459.D
 Acq: 10 May 2024 11:09

Tgt Ion:252 Resp: 69937
 Ion Ratio Lower Upper
 252 100
 253 22.8 18.2 27.4
 125 13.4 10.5 15.7





#38

Benzo(k)fluoranthene

Concen: 2.180 ng

RT: 22.891 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN031459.D

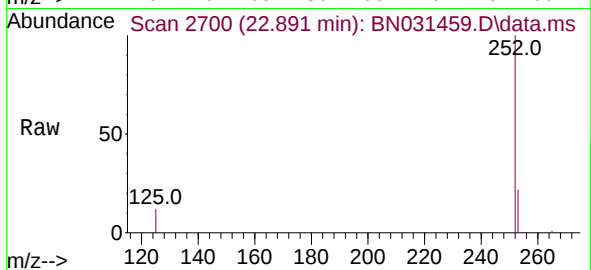
Acq: 10 May 2024 11:09

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOILDL



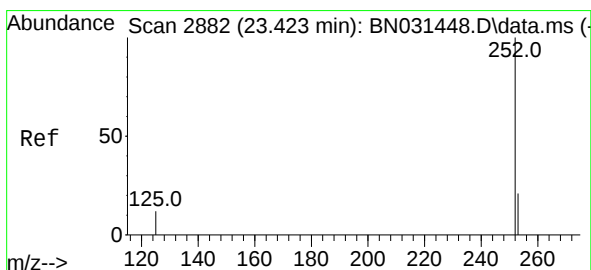
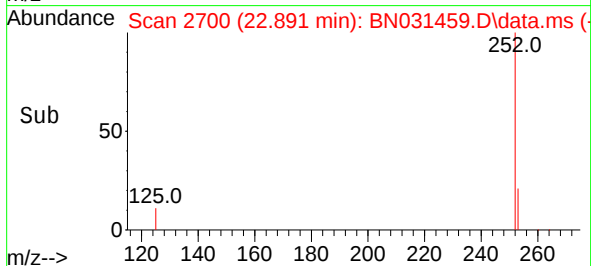
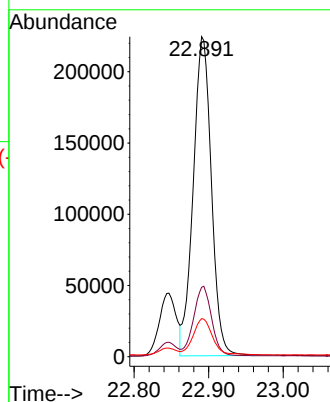
Tgt Ion:252 Resp: 379194

Ion Ratio Lower Upper

252 100

253 21.7 18.2 27.2

125 11.9 11.0 16.6



#39

Benzo(a)pyrene

Concen: 1.178 ng

RT: 23.423 min Scan# 2882

Delta R.T. -0.000 min

Lab File: BN031459.D

Acq: 10 May 2024 11:09

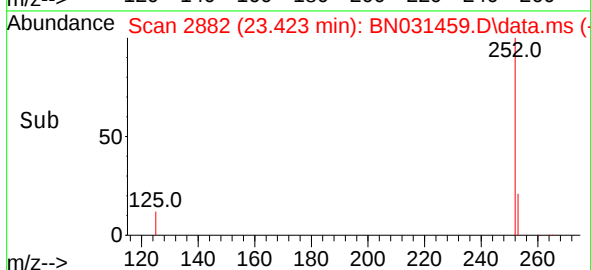
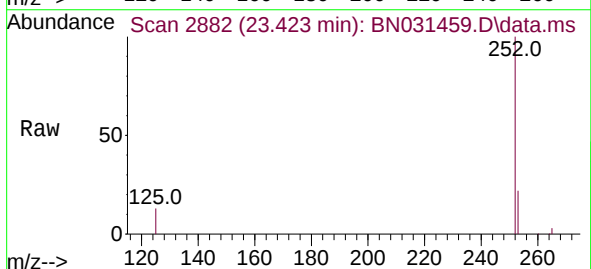
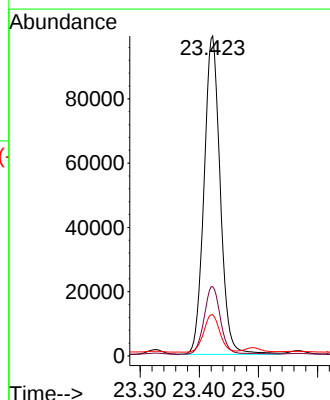
Tgt Ion:252 Resp: 188182

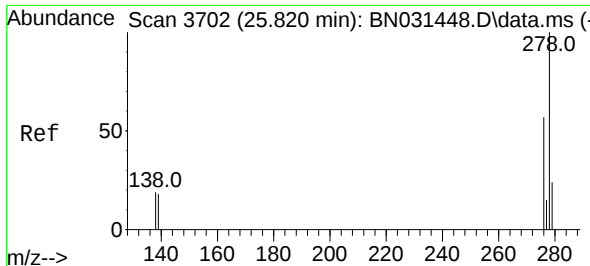
Ion Ratio Lower Upper

252 100

253 21.7 18.2 27.2

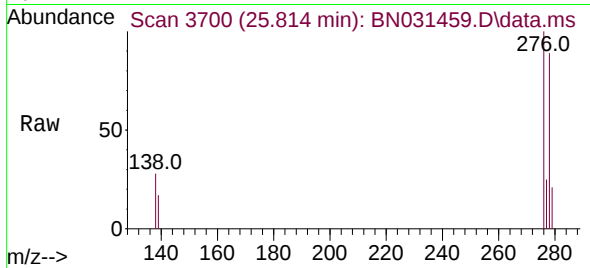
125 12.9 11.9 17.9



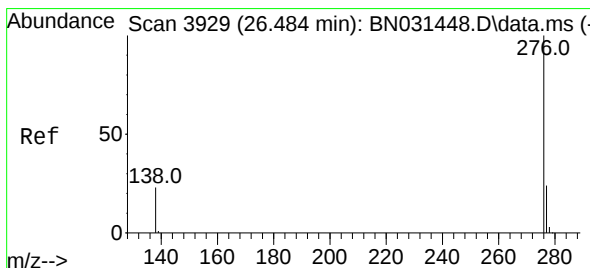
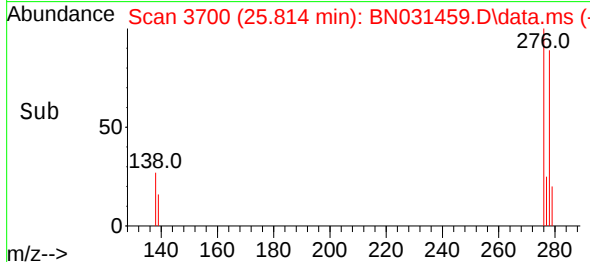
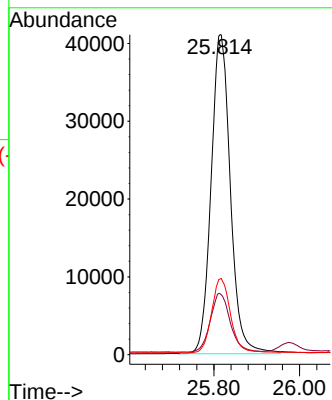


#40
Dibenzo(a,h)anthracene
Concen: 0.792 ng
RT: 25.814 min Scan# 31
Delta R.T. -0.006 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILD



Tgt Ion:278 Resp: 128075
Ion Ratio Lower Upper
278 100
139 19.1 15.9 23.9
279 23.6 19.8 29.8



#41
Benzo(g,h,i)perylene
Concen: 1.401 ng
RT: 26.484 min Scan# 3929
Delta R.T. -0.000 min
Lab File: BN031459.D
Acq: 10 May 2024 11:09

Tgt Ion:276 Resp: 243632
Ion Ratio Lower Upper
276 100
277 23.2 19.4 29.0
138 23.6 20.4 30.6

