

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120623\
 Data File : BN029053.D
 Acq On : 06 Dec 2023 13:06
 Operator : MA/JU
 Sample : 05047-11
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOIL

Quant Time: Dec 06 13:41:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 00:49:47 2023
 Response via : Initial Calibration

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

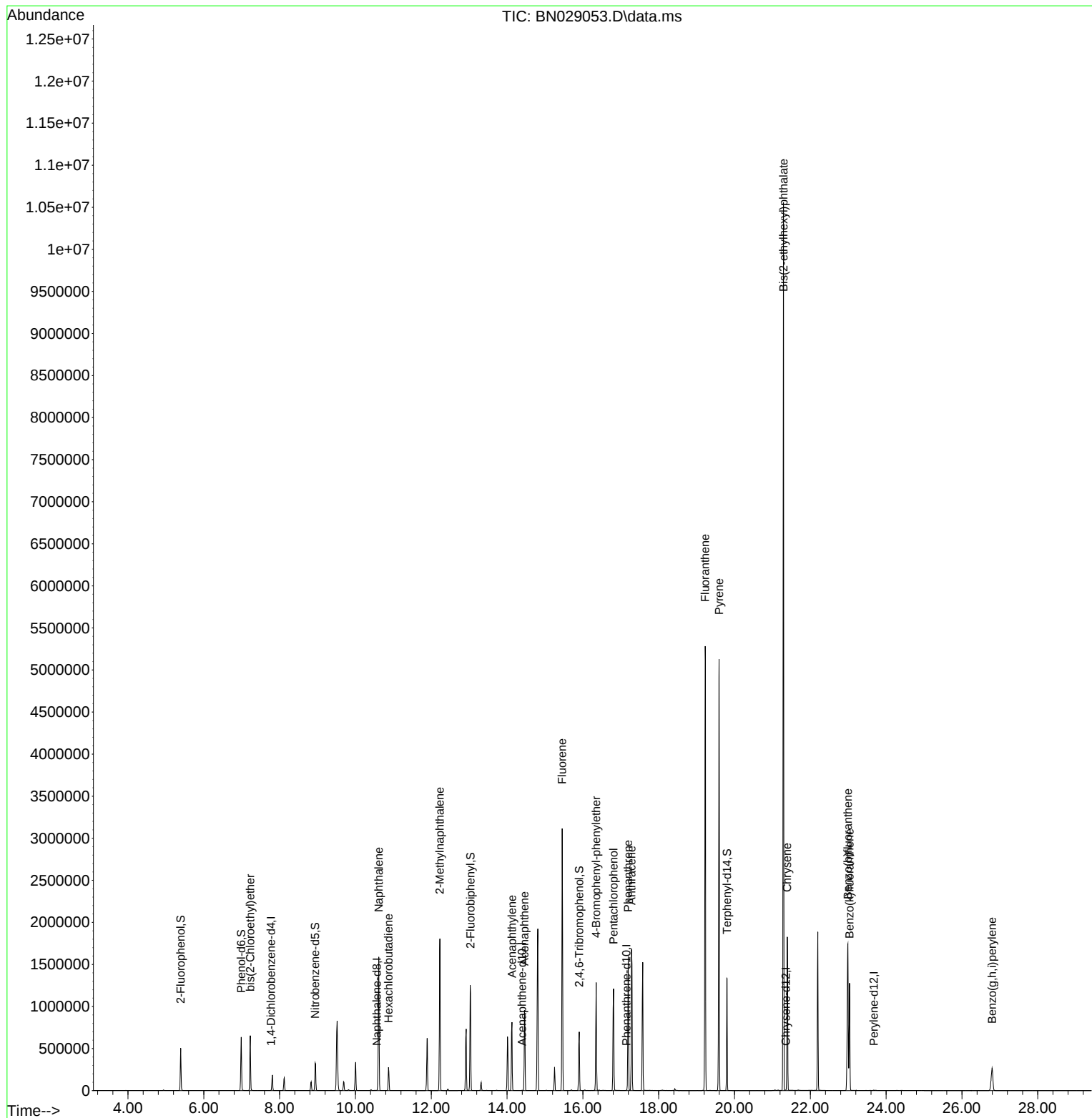
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	1481	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	3055	0.400	ng	0.00
13) Acenaphthene-d10	14.396	164	2298	0.400	ng	0.00
19) Phenanthrene-d10	17.146	188	5999	0.400	ng	0.00
29) Chrysene-d12	21.356	240	3822	0.400	ng	# 0.00
35) Perylene-d12	23.675	264	3787	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	365553	109.103	ng	0.00
5) Phenol-d6	6.988	99	514240	128.397	ng	0.00
8) Nitrobenzene-d5	8.939	82	301861	81.904	ng	0.00
11) 2-Methylnaphthalene-d10	0.000	152	0d	0.000	ng	
14) 2,4,6-Tribromophenol	15.905	330	377976	148.926	ng	0.01
15) 2-Fluorobiphenyl	13.038	172	1100284	92.482	ng	0.01
27) Fluoranthene-d10	0.000	212	0d	0.000	ng	
31) Terphenyl-d14	19.803	244	1143340	118.190	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.226	93	446934	157.708	ng	98
9) Naphthalene	10.615	128	1762544	184.949	ng	95
10) Hexachlorobutadiene	10.872	225	218024	51.874	ng	# 100
12) 2-Methylnaphthalene	12.227	142	1115121	143.924	ng	96
16) Acenaphthylene	14.129	152	887891	70.182	ng	100
17) Acenaphthene	14.460	154	485845	61.220	ng	99
18) Fluorene	15.454	166	1116776	88.210	ng	97
21) 4-Bromophenyl-phenylether	16.352	248	514163	94.795	ng	96
24) Pentachlorophenol	16.811	266	529333	156.716	ng	98
25) Phenanthrene	17.196	178	1439472	71.879	ng	99
26) Anthracene	17.283	178	1870026	96.595	ng	99
28) Fluoranthene	19.227	202	4764639	173.070	ng	# 97
30) Pyrene	19.594	202	4352995	183.727	ng	98
33) Chrysene	21.391	228	1387450	72.739	ng	99
34) Bis(2-ethylhexyl)phtha...	21.293	149	8367243	700.176	ng	94
37) Benzo(b)fluoranthene	22.991	252	2489748	122.466	ng	# 89
38) Benzo(k)fluoranthene	23.035	252	1453526	76.251	ng	# 89
41) Benzo(g,h,i)perylene	26.795	276	615889	37.804	ng	97

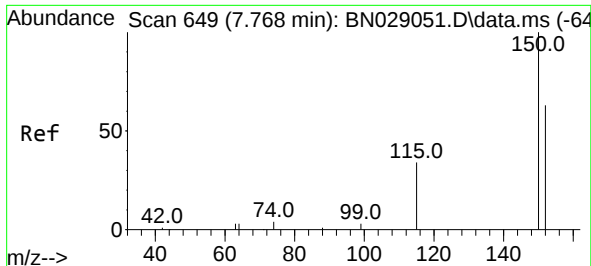
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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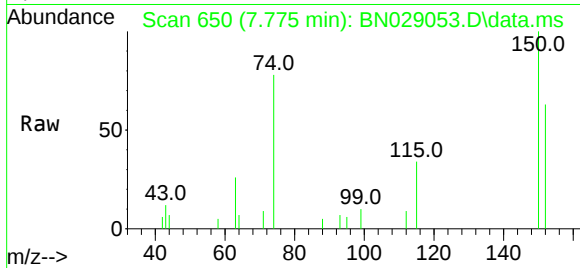
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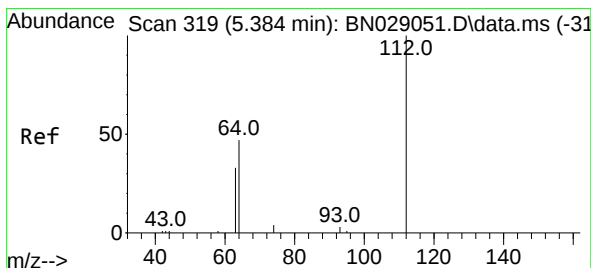
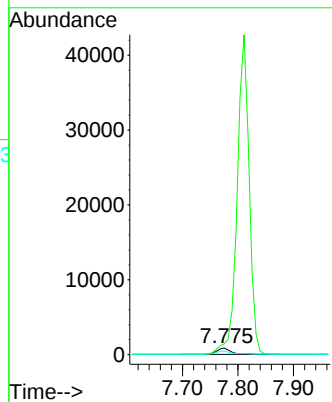
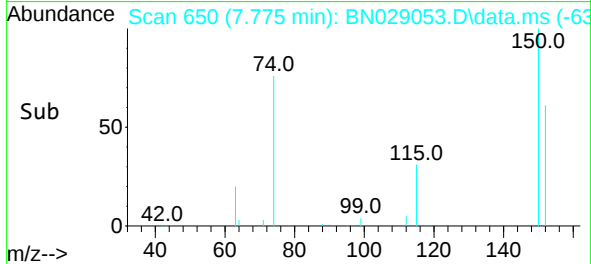


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.775 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN029053.D
 Acq: 06 Dec 2023 13:06

Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOIL

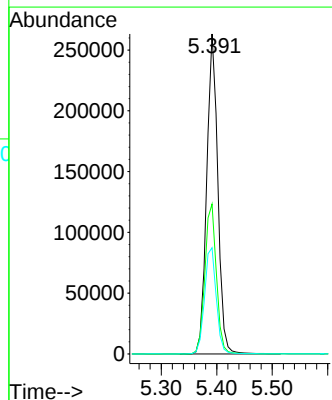
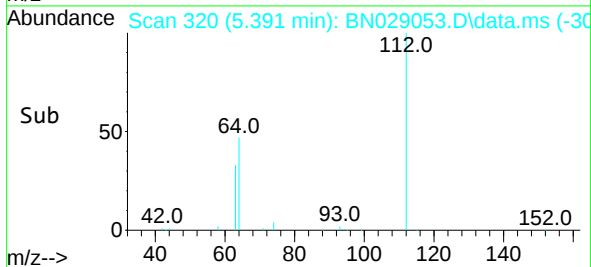
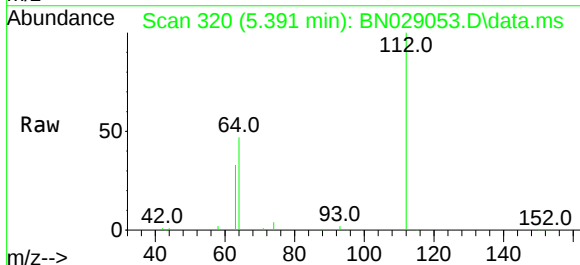


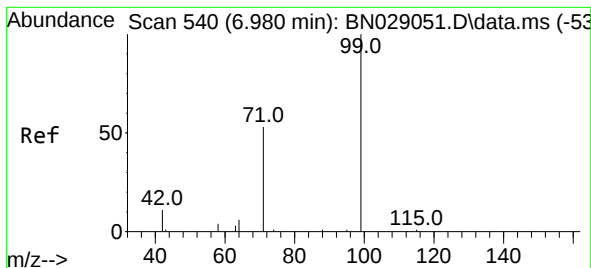
Tgt Ion:152 Resp: 1481
 Ion Ratio Lower Upper
 152 100
 150 159.6 116.2 174.4
 115 54.6 45.1 67.7



#4
 2-Fluorophenol
 Concen: 109.103 ng
 RT: 5.391 min Scan# 320
 Delta R.T. -0.000 min
 Lab File: BN029053.D
 Acq: 06 Dec 2023 13:06

Tgt Ion:112 Resp: 365553
 Ion Ratio Lower Upper
 112 100
 64 48.8 37.0 55.6
 63 35.2 29.0 43.6





#5

Phenol-d6

Concen: 128.397 ng

RT: 6.988 min Scan# 540

Delta R.T. 0.007 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

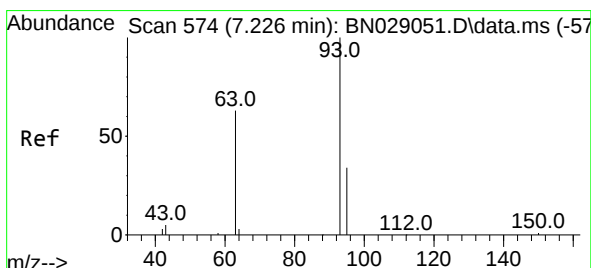
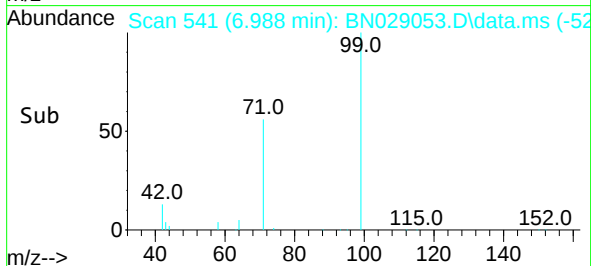
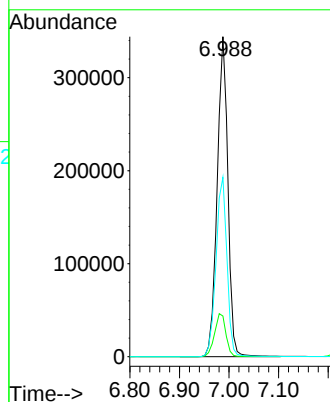
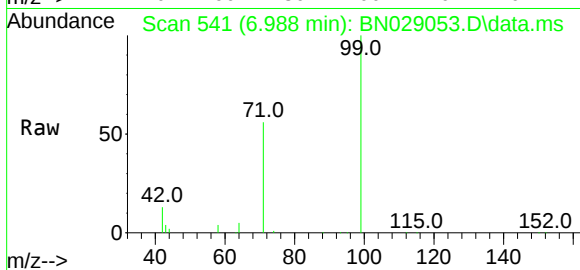
Tgt Ion: 99 Resp: 514240

Ion Ratio Lower Upper

99 100

42 14.3 13.4 20.2

71 57.6 47.8 71.6



#6

bis(2-Chloroethyl)ether

Concen: 157.708 ng

RT: 7.226 min Scan# 574

Delta R.T. -0.007 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

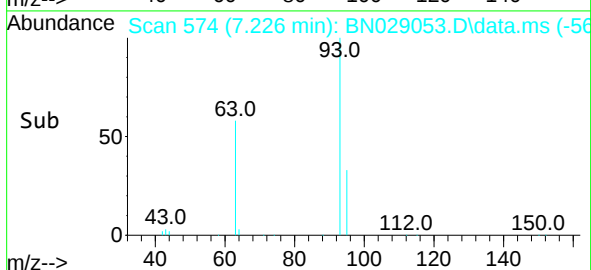
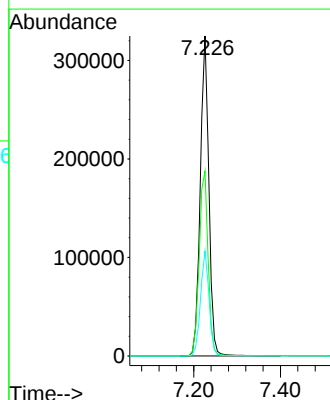
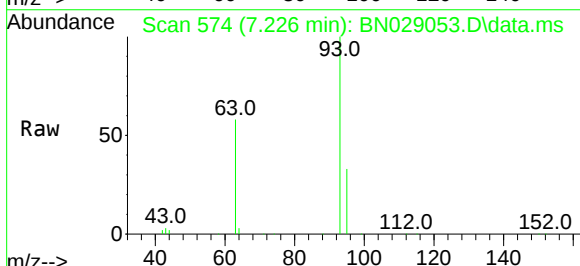
Tgt Ion: 93 Resp: 446934

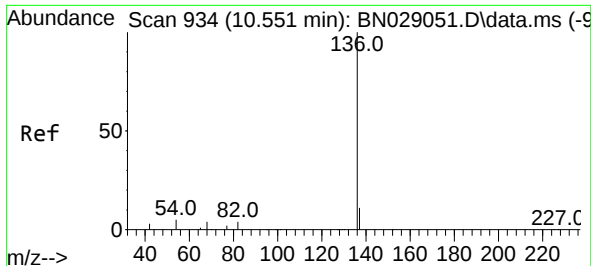
Ion Ratio Lower Upper

93 100

63 60.6 48.4 72.6

95 32.8 28.1 42.1

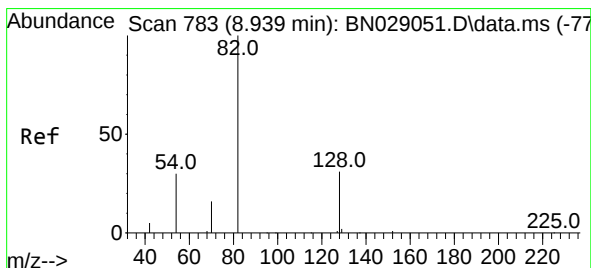
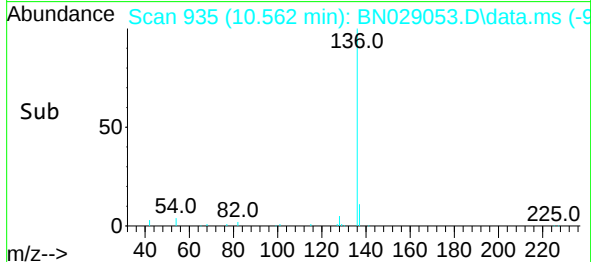
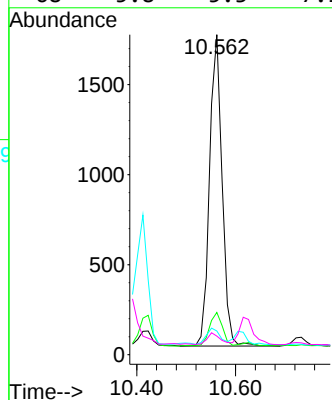
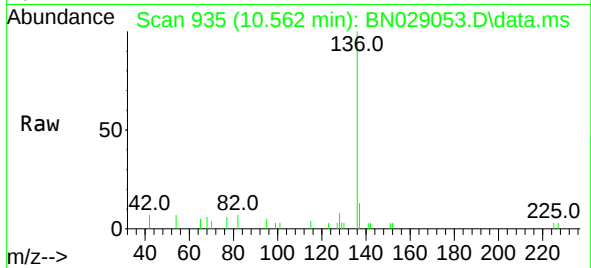




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN029053.D
Acq: 06 Dec 2023 13:06

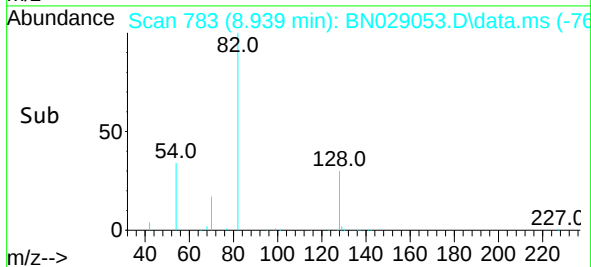
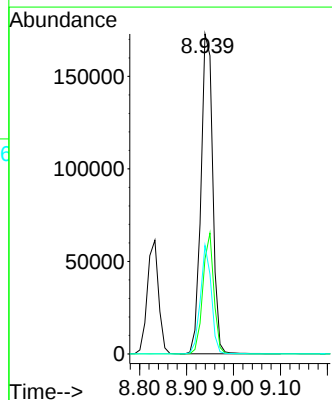
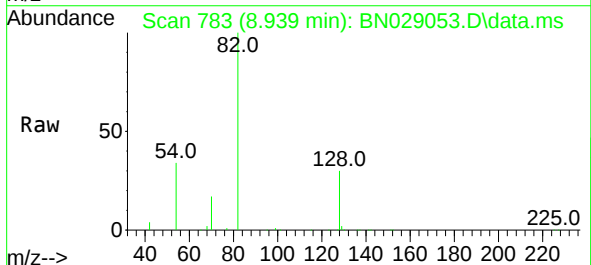
Instrument :
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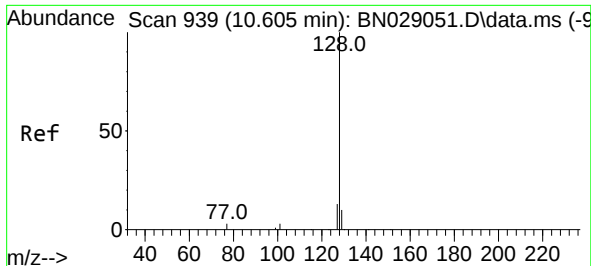
Tgt Ion:	136	Resp:	3055
Ion	Ratio	Lower	Upper
136	100		
137	13.2	11.9	17.9
54	7.4	6.4	9.6
68	5.8	5.3	7.9



#8
Nitrobenzene-d5
Concen: 81.904 ng
RT: 8.939 min Scan# 783
Delta R.T. -0.000 min
Lab File: BN029053.D
Acq: 06 Dec 2023 13:06

Tgt Ion:	82	Resp:	301861
Ion	Ratio	Lower	Upper
82	100		
128	29.7	28.2	42.4
54	33.9	32.1	48.1

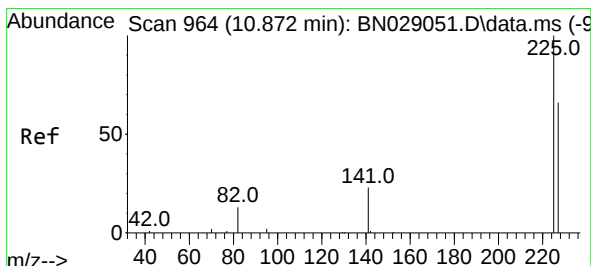
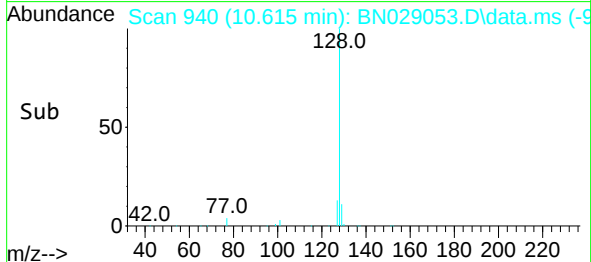
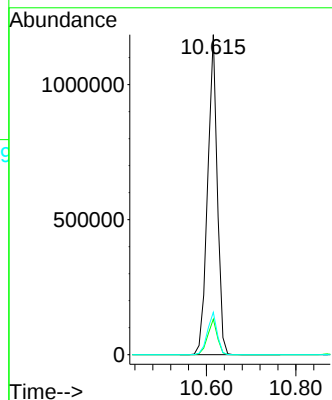
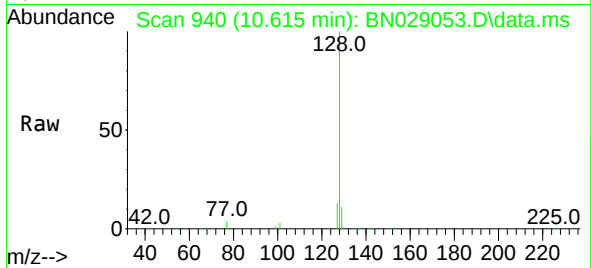




#9
Naphthalene
Concen: 184.949 ng
RT: 10.615 min Scan# 940
Delta R.T. 0.011 min
Lab File: BN029053.D
Acq: 06 Dec 2023 13:06

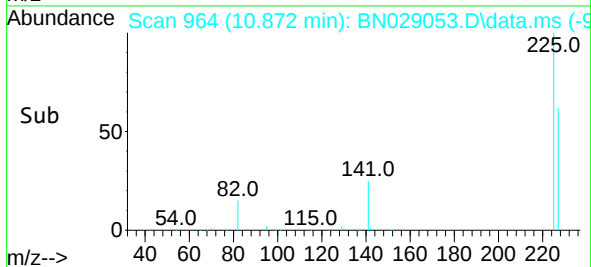
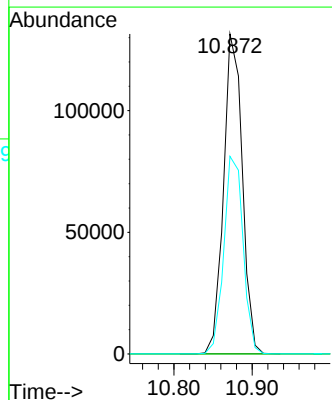
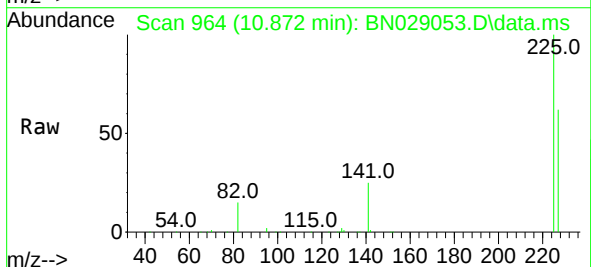
Instrument :
BNA_N
ClientSampleId :
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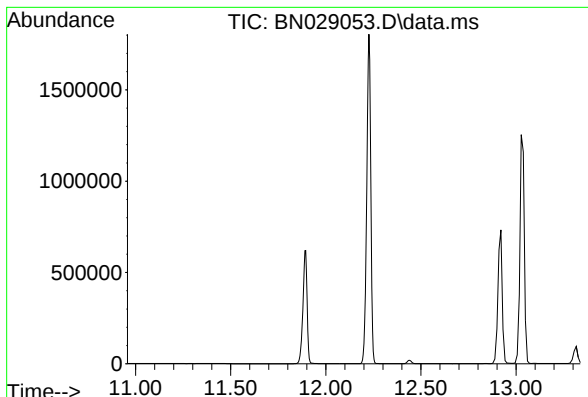
Tgt Ion:128 Resp: 1762544
Ion Ratio Lower Upper
128 100
129 11.1 10.5 15.7
127 13.3 12.5 18.7



#10
Hexachlorobutadiene
Concen: 51.874 ng
RT: 10.872 min Scan# 964
Delta R.T. -0.011 min
Lab File: BN029053.D
Acq: 06 Dec 2023 13:06

Tgt Ion:225 Resp: 218024
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.7 76.1

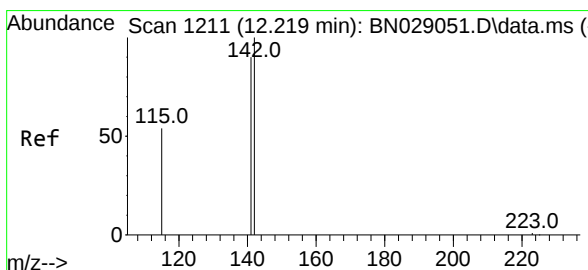
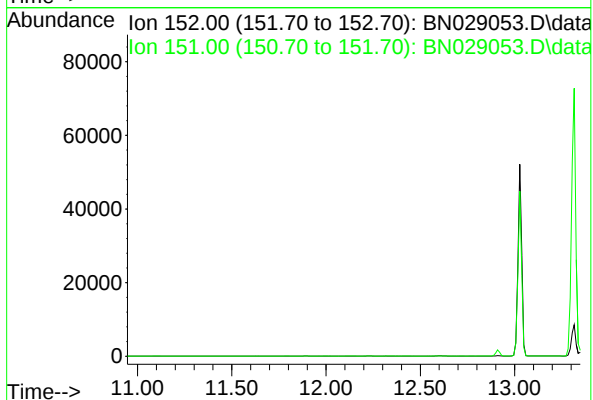




#11
 2-Methylnaphthalene-d10
 Concen: 0.000 ng
 Expected RT: 12.15 min
 Lab File: BN029053.D
 Acq: 06 Dec 2023 13:06

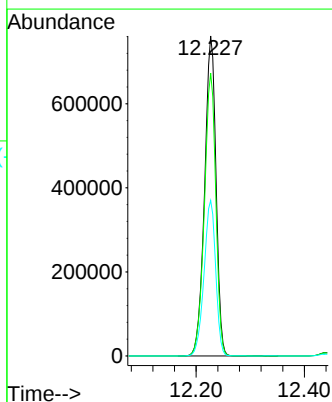
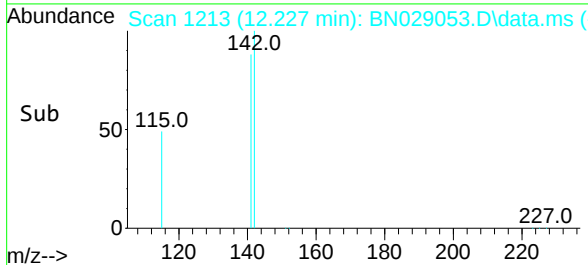
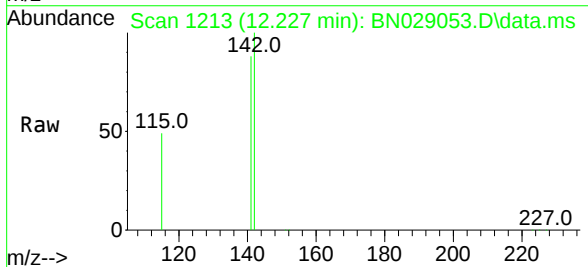
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 PT-BNA-SOIL

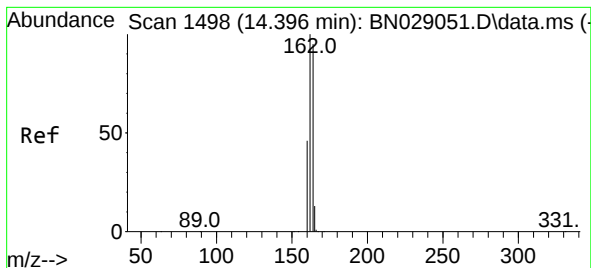
Tgt Ion: 152
 Sig Exp Ratio
 152 100
 151 21.7



#12
 2-Methylnaphthalene
 Concen: 143.924 ng
 RT: 12.227 min Scan# 1213
 Delta R.T. 0.004 min
 Lab File: BN029053.D
 Acq: 06 Dec 2023 13:06

Tgt Ion: 142 Resp: 1115121
 Ion Ratio Lower Upper
 142 100
 141 88.4 71.1 106.7
 115 48.6 44.6 66.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.396 min Scan# 1498

Delta R.T. -0.000 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

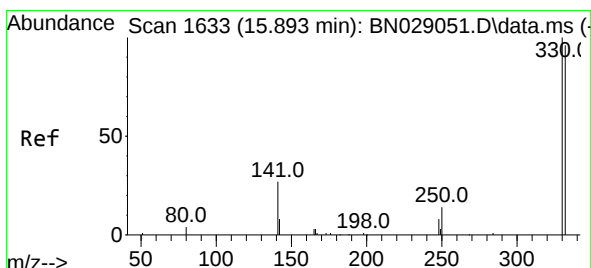
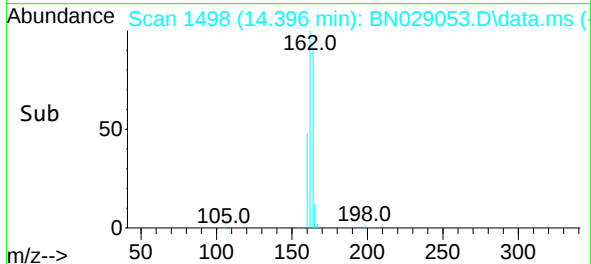
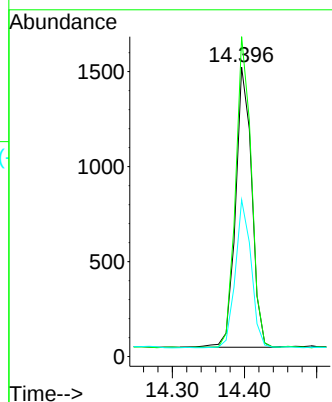
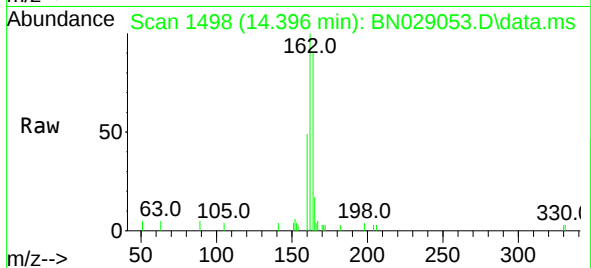
Tgt Ion:164 Resp: 2298

Ion Ratio Lower Upper

164 100

162 110.6 85.0 127.6

160 54.2 41.3 61.9



#14

2,4,6-Tribromophenol

Concen: 148.926 ng

RT: 15.905 min Scan# 1634

Delta R.T. 0.012 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

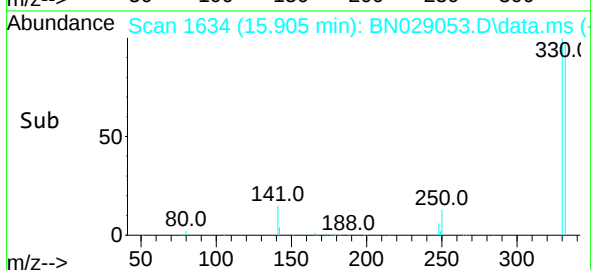
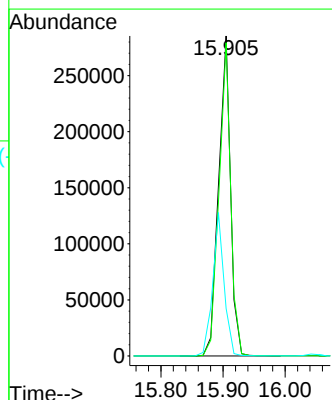
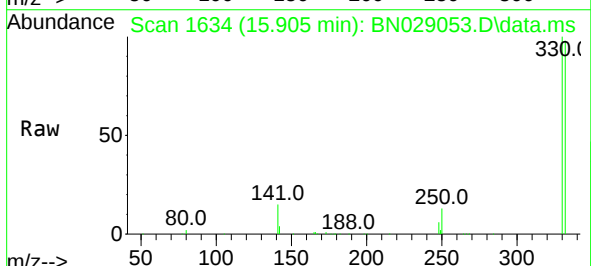
Tgt Ion:330 Resp: 377976

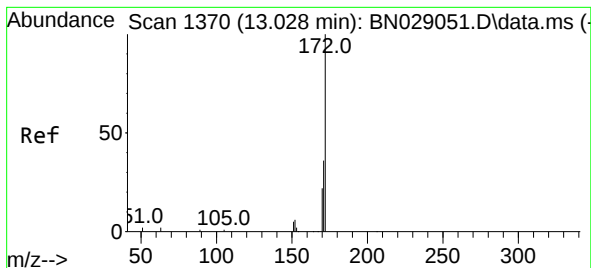
Ion Ratio Lower Upper

330 100

332 96.4 78.8 118.2

141 43.2 28.7 43.1#





#15

2-Fluorobiphenyl

Concen: 92.482 ng

RT: 13.038 min Scan# 11

Delta R.T. 0.011 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

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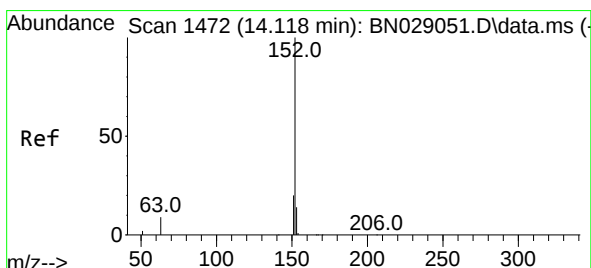
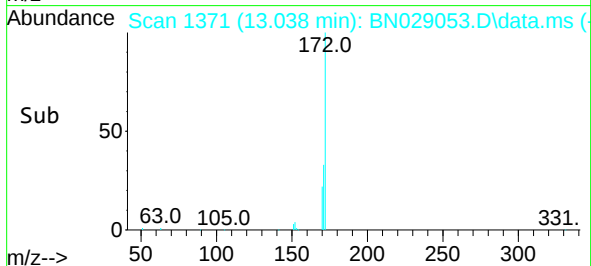
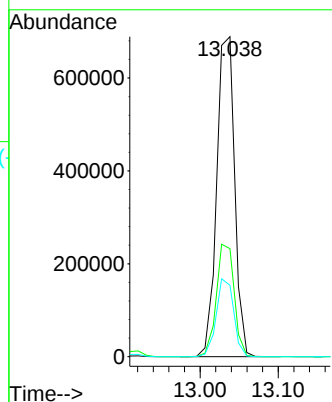
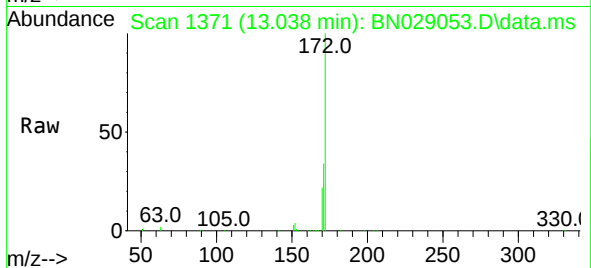
Tgt Ion:172 Resp: 1100284

Ion Ratio Lower Upper

172 100

171 33.7 30.1 45.1

170 22.3 20.3 30.5



#16

Acenaphthylene

Concen: 70.182 ng

RT: 14.129 min Scan# 1473

Delta R.T. 0.011 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

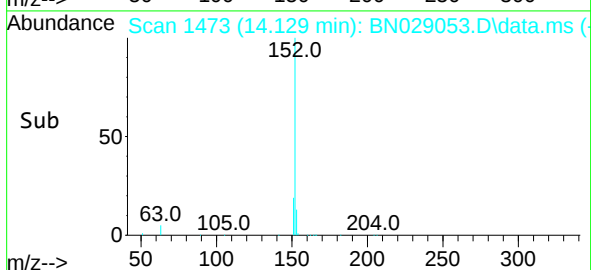
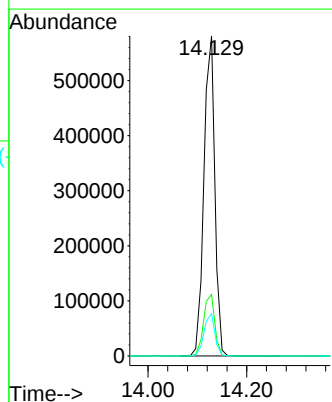
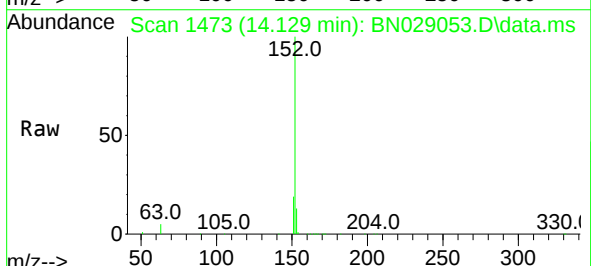
Tgt Ion:152 Resp: 887891

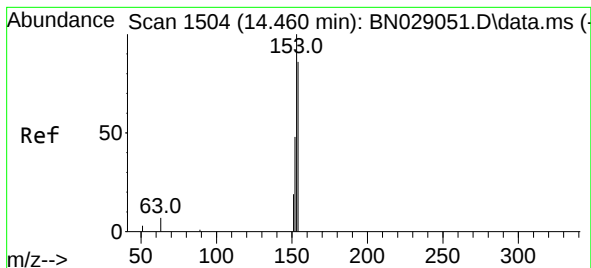
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.6

153 13.1 10.3 15.5





#17

Acenaphthene

Concen: 61.220 ng

RT: 14.460 min Scan# 1504

Delta R.T. -0.000 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

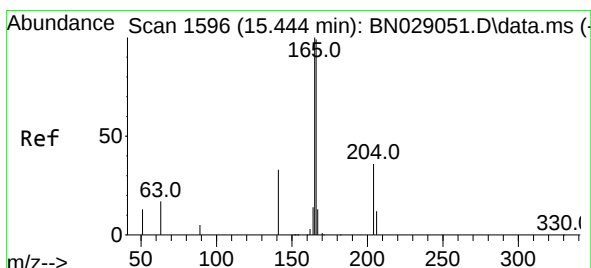
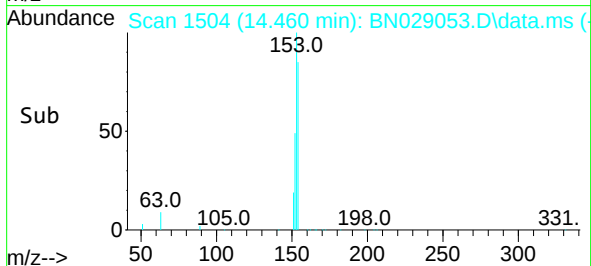
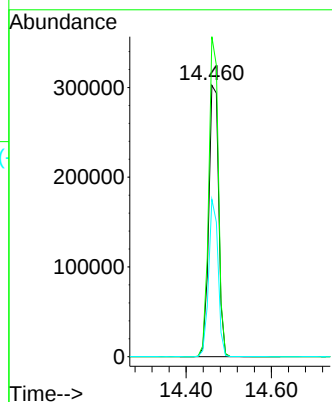
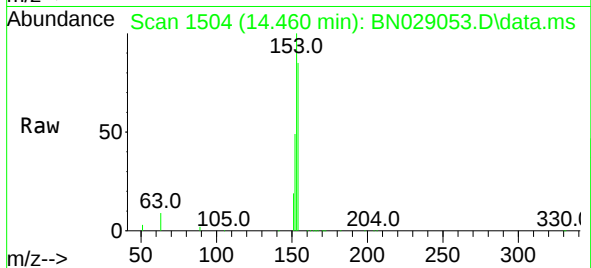
Tgt Ion:154 Resp: 485845

Ion Ratio Lower Upper

154 100

153 114.7 93.0 139.6

152 55.0 44.2 66.4



#18

Fluorene

Concen: 88.210 ng

RT: 15.454 min Scan# 1597

Delta R.T. -0.000 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

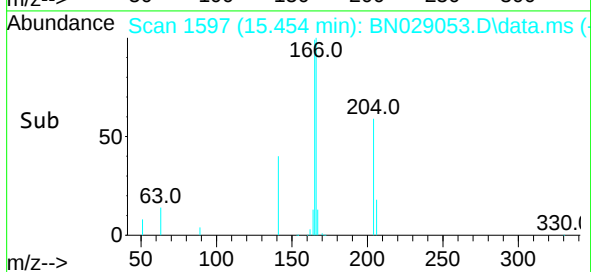
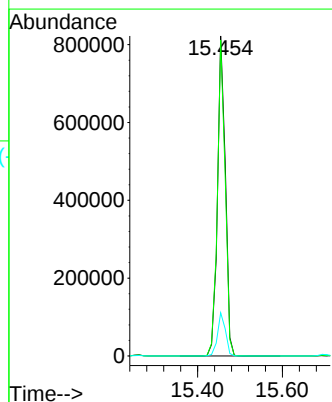
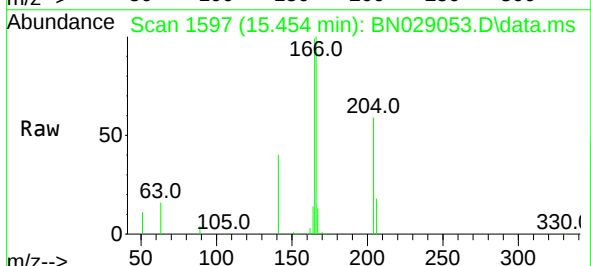
Tgt Ion:166 Resp: 1116776

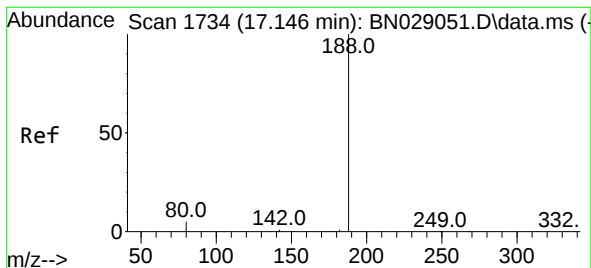
Ion Ratio Lower Upper

166 100

165 96.8 80.2 120.4

167 13.5 11.0 16.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.146 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

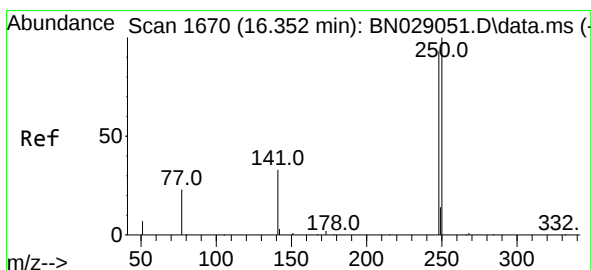
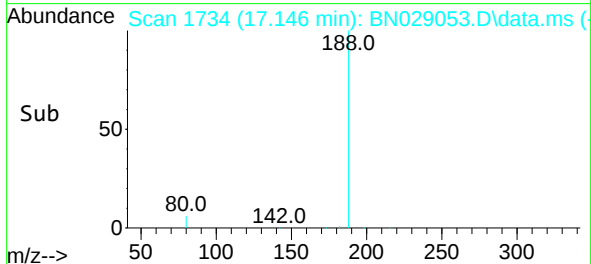
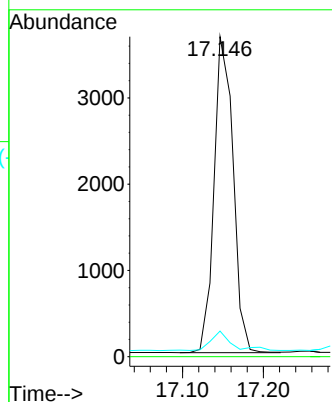
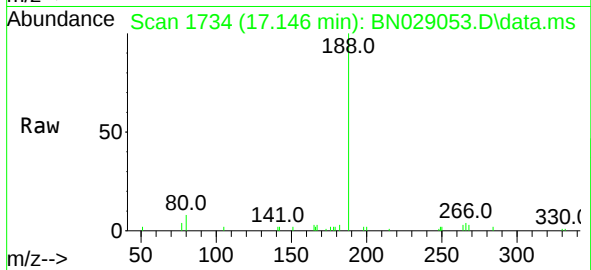
Tgt Ion:188 Resp: 5999

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 5.4 8.0



#21

4-Bromophenyl-phenylether

Concen: 94.795 ng

RT: 16.352 min Scan# 1670

Delta R.T. -0.000 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

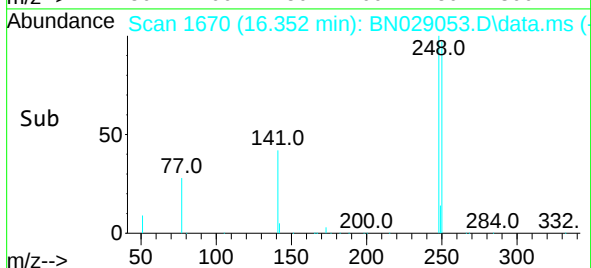
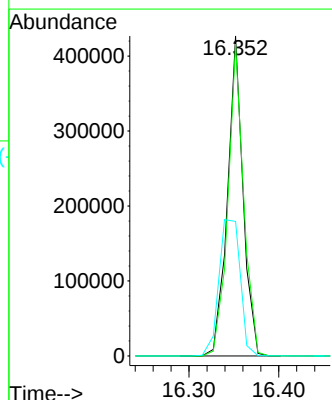
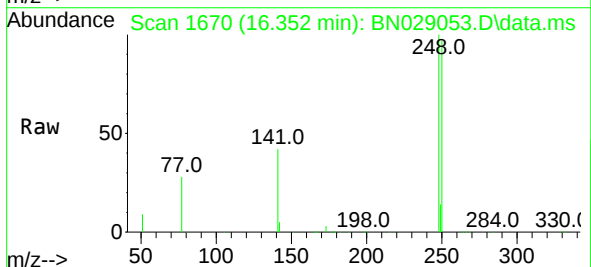
Tgt Ion:248 Resp: 514163

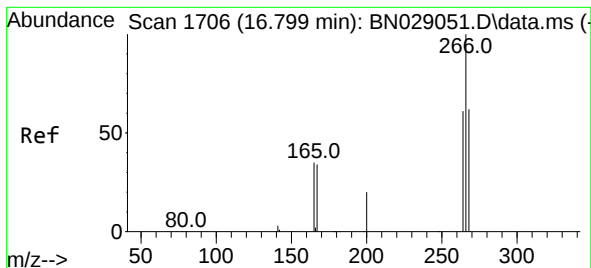
Ion Ratio Lower Upper

248 100

250 97.4 81.3 121.9

141 42.1 31.2 46.8





#24

Pentachlorophenol

Concen: 156.716 ng

RT: 16.811 min Scan# 1707

Delta R.T. 0.012 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

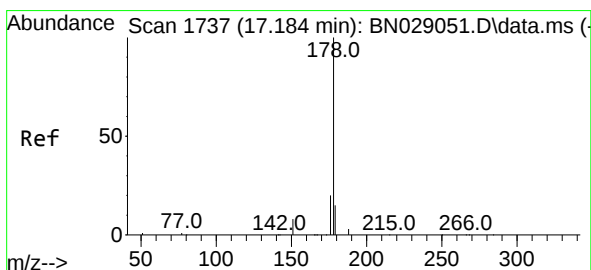
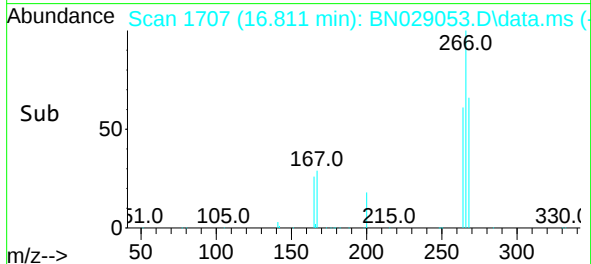
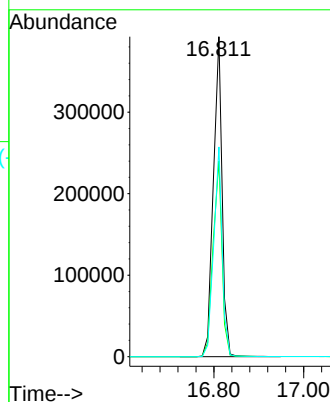
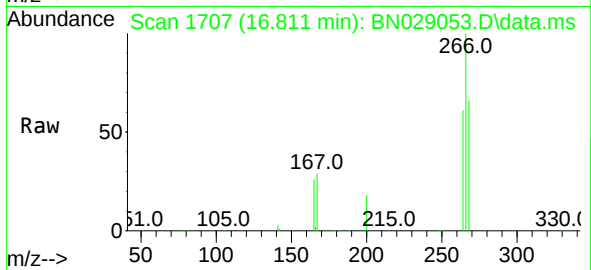
Tgt Ion:266 Resp: 529333

Ion Ratio Lower Upper

266 100

264 62.6 50.7 76.1

268 64.1 49.5 74.3



#25

Phenanthrene

Concen: 71.879 ng

RT: 17.196 min Scan# 1738

Delta R.T. 0.012 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

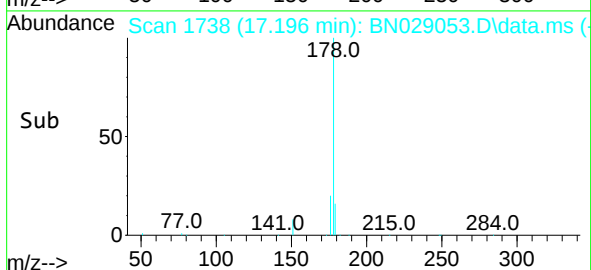
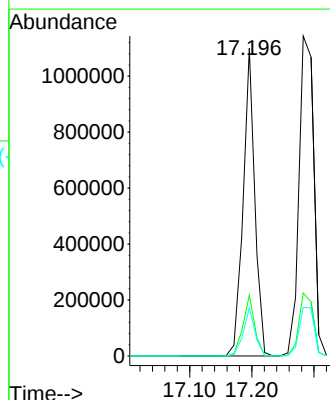
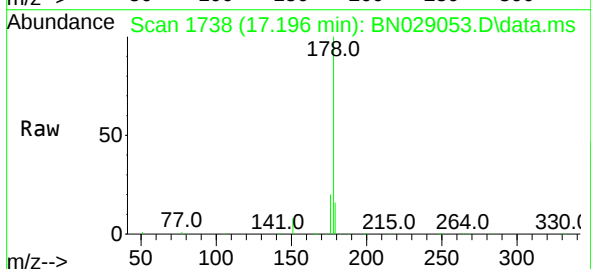
Tgt Ion:178 Resp: 1439472

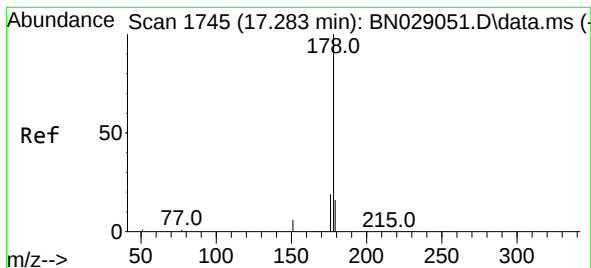
Ion Ratio Lower Upper

178 100

176 19.7 15.6 23.4

179 15.4 12.6 18.8

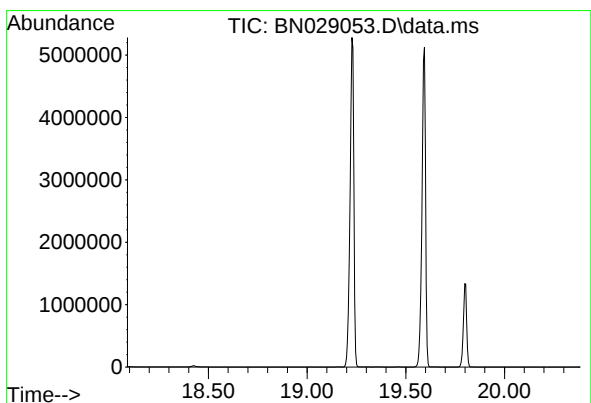
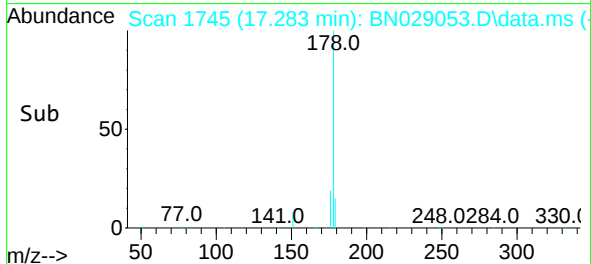
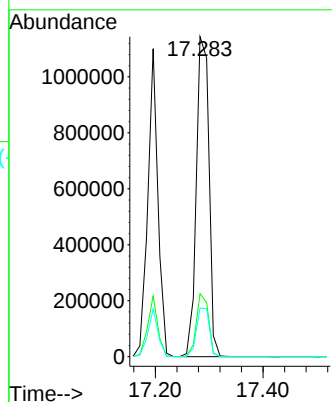
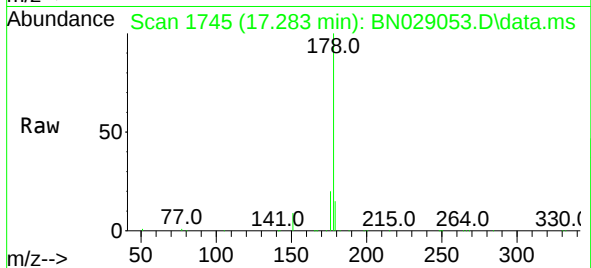




#26
 Anthracene
 Concen: 96.595 ng
 RT: 17.283 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN029053.D
 Acq: 06 Dec 2023 13:06

Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOIL

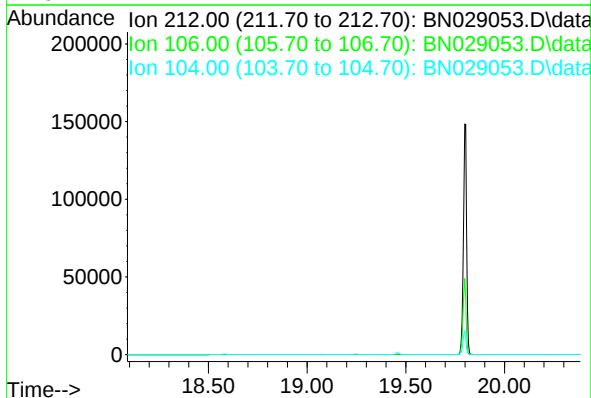
Tgt Ion:178 Resp: 1870026
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.0 22.4
 179 15.5 12.6 19.0

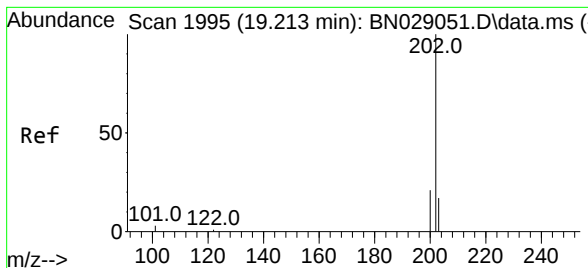


#27
 Fluoranthene-d10
 Concen: 0.000 ng
 Expected RT: 19.19 min

Lab File: BN029053.D
 Acq: 06 Dec 2023 13:06

Tgt Ion: 212
 Sig Exp Ratio
 212 100
 106 4.9
 104 3.2





#28

Fluoranthene

Concen: 173.070 ng

RT: 19.227 min Scan# 1995

Delta R.T. 0.014 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

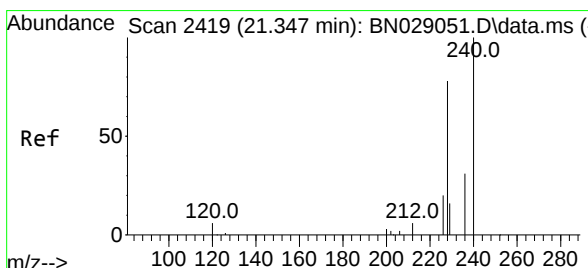
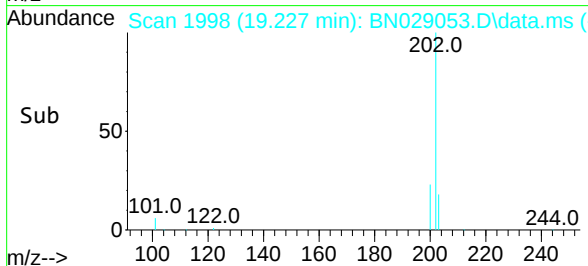
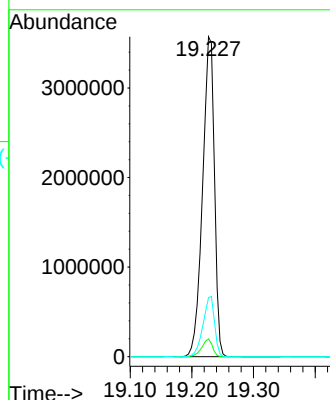
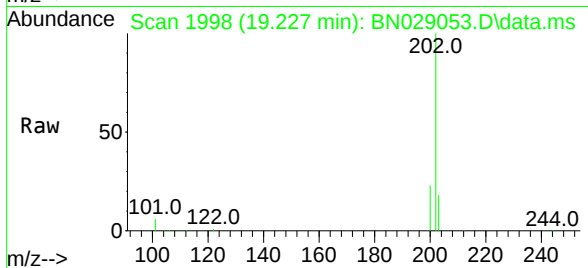
Tgt Ion:202 Resp: 4764639

Ion Ratio Lower Upper

202 100

101 5.0 3.0 4.6#

203 18.4 13.8 20.6



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.356 min Scan# 2420

Delta R.T. 0.009 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

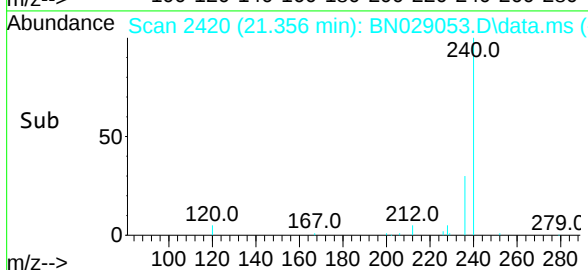
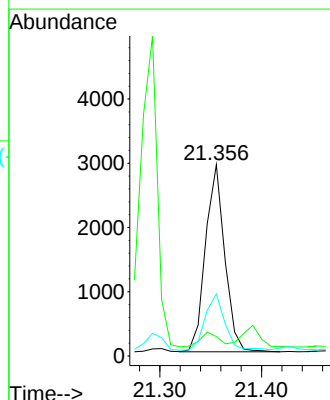
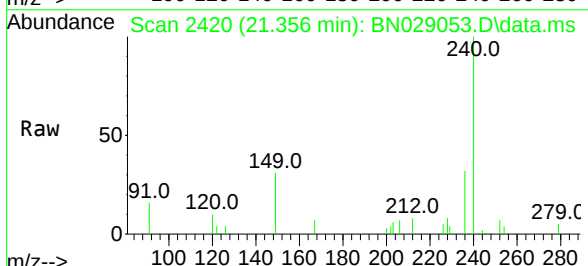
Tgt Ion:240 Resp: 3822

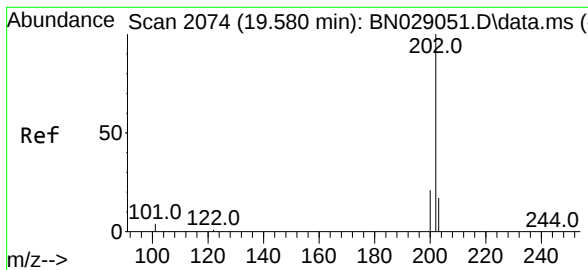
Ion Ratio Lower Upper

240 100

120 10.1 6.7 10.1#

236 32.5 25.7 38.5





#30

Pyrene

Concen: 183.727 ng

RT: 19.594 min Scan# 2074

Delta R.T. 0.014 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

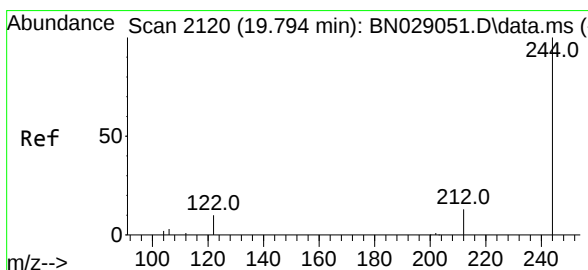
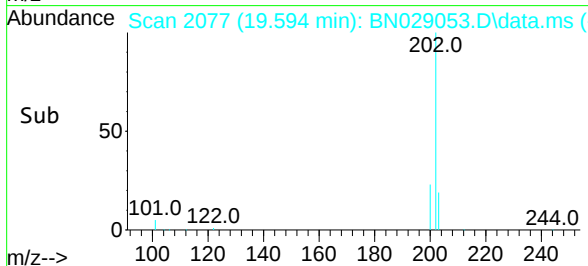
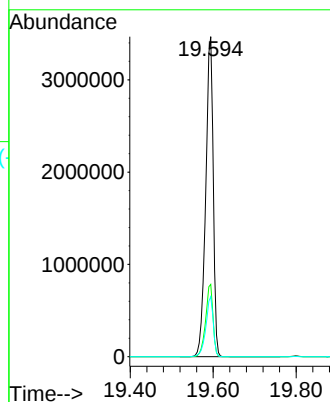
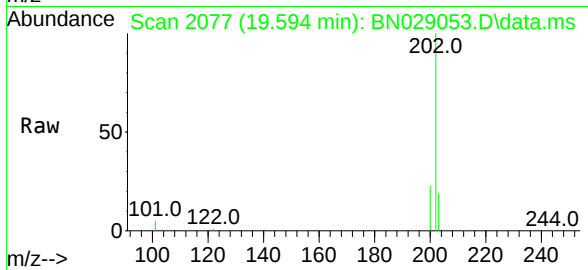
Tgt Ion:202 Resp: 4352995

Ion Ratio Lower Upper

202 100

200 22.2 17.0 25.6

203 18.5 14.2 21.4



#31

Terphenyl-d14

Concen: 118.190 ng

RT: 19.803 min Scan# 2122

Delta R.T. 0.009 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

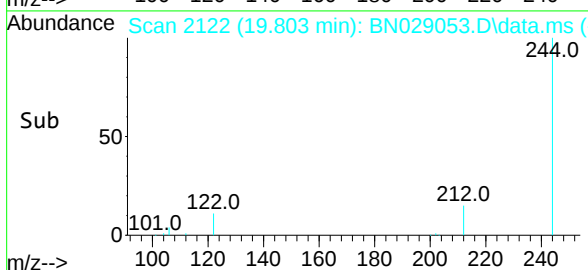
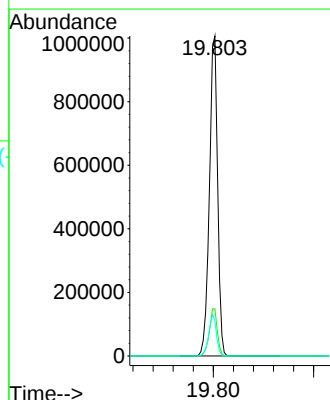
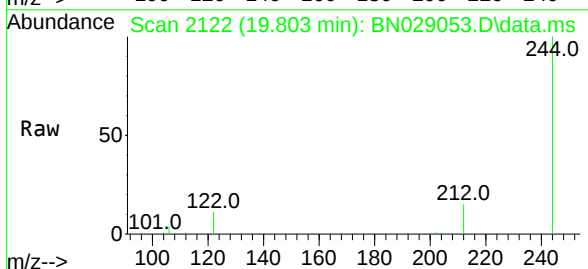
Tgt Ion:244 Resp: 1143340

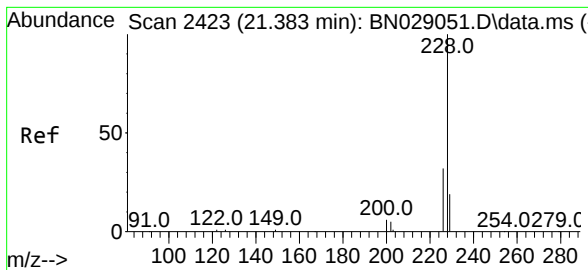
Ion Ratio Lower Upper

244 100

212 14.7 11.6 17.4

122 10.9 8.2 12.4





#33

Chrysene

Concen: 72.739 ng

RT: 21.391 min Scan# 2413

Delta R.T. 0.009 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

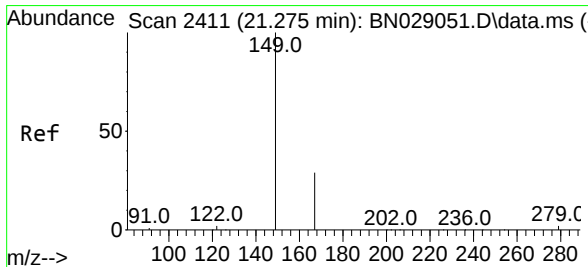
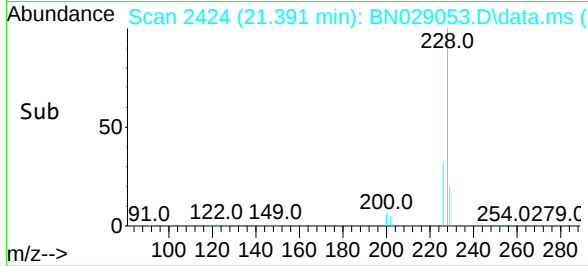
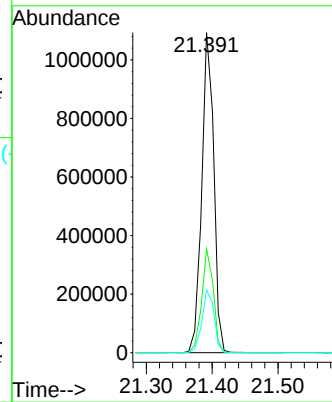
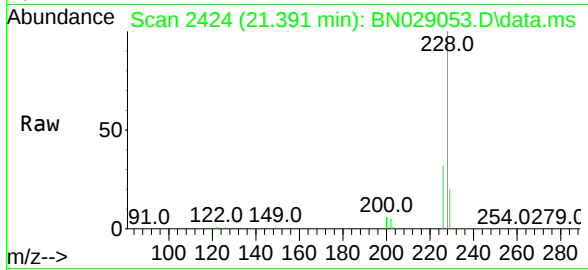
Tgt Ion:228 Resp: 1387450

Ion Ratio Lower Upper

228 100

226 32.4 25.4 38.0

229 19.6 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 700.176 ng

RT: 21.293 min Scan# 2413

Delta R.T. 0.018 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

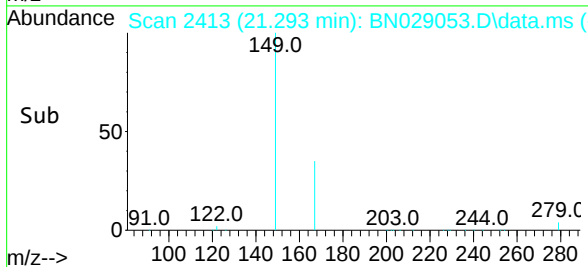
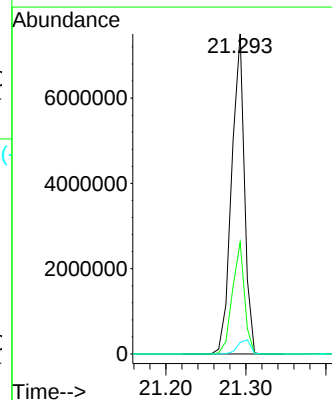
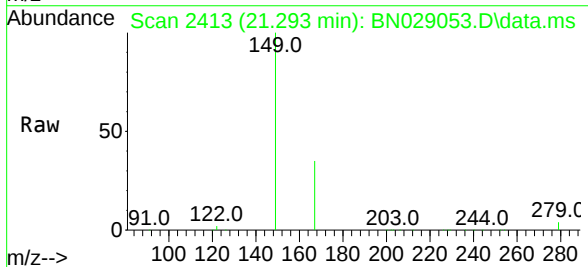
Tgt Ion:149 Resp: 8367243

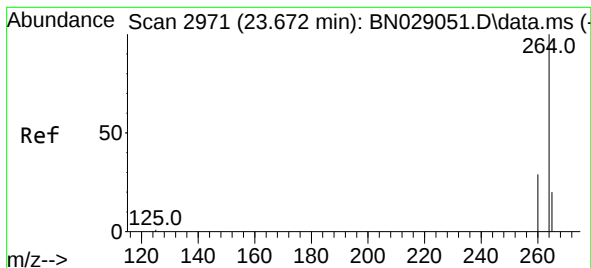
Ion Ratio Lower Upper

149 100

167 33.0 23.4 35.2

279 4.4 3.4 5.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.675 min Scan# 2971

Delta R.T. 0.006 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

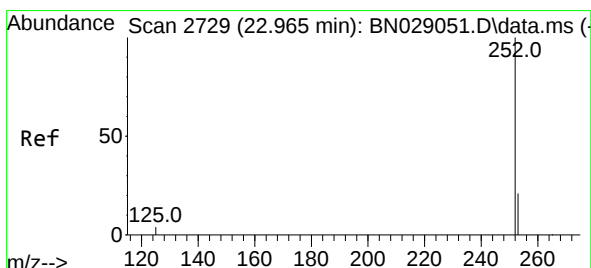
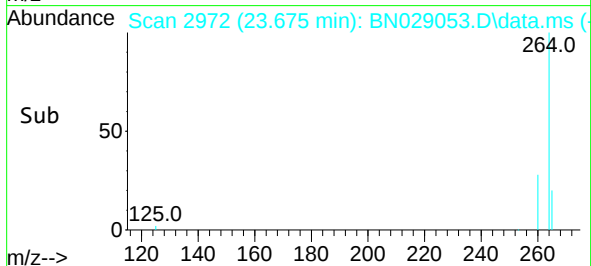
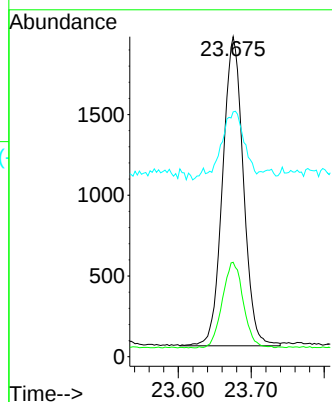
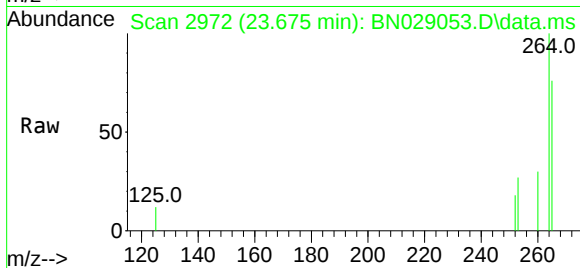
Tgt Ion:264 Resp: 3787

Ion Ratio Lower Upper

264 100

260 29.5 23.9 35.9

265 76.5 52.7 79.1



#37

Benzo(b)fluoranthene

Concen: 122.466 ng

RT: 22.991 min Scan# 2738

Delta R.T. 0.026 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

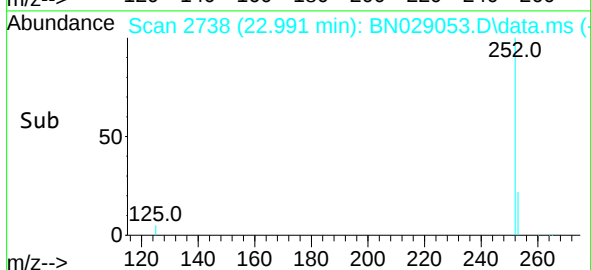
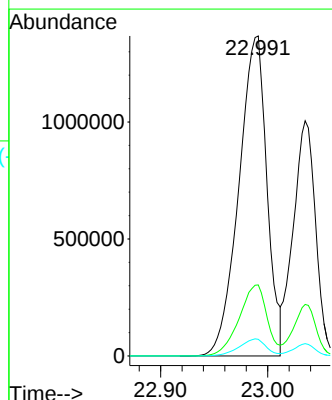
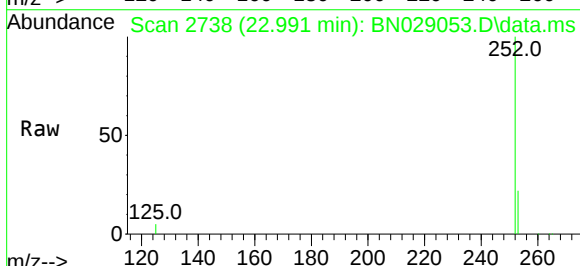
Tgt Ion:252 Resp: 2489748

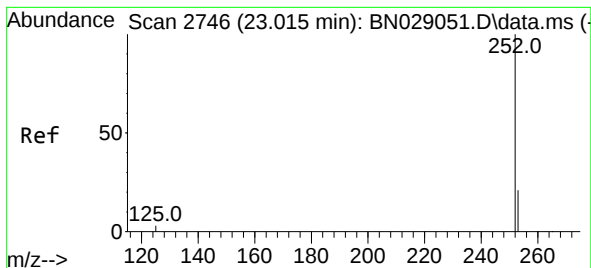
Ion Ratio Lower Upper

252 100

253 22.2 23.0 34.6#

125 5.2 5.4 8.0#





#38

Benzo(k)fluoranthene

Concen: 76.251 ng

RT: 23.035 min Scan# 21

Delta R.T. 0.023 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOIL

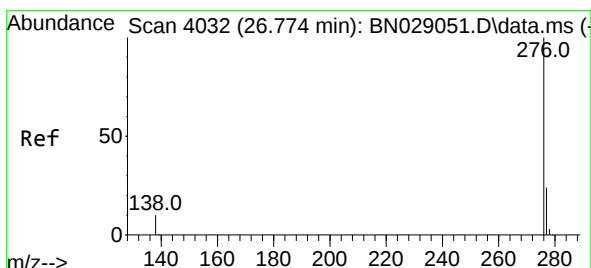
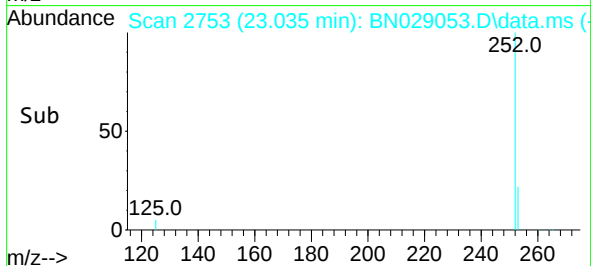
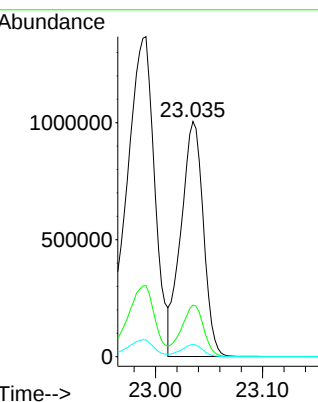
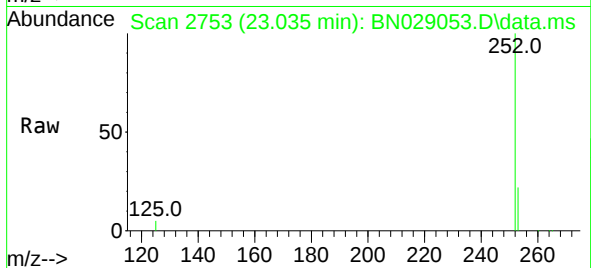
Tgt Ion:252 Resp: 1453526

Ion Ratio Lower Upper

252 100

253 21.9 23.0 34.4#

125 5.2 5.0 7.6



#41

Benzo(g,h,i)perylene

Concen: 37.804 ng

RT: 26.795 min Scan# 4039

Delta R.T. 0.026 min

Lab File: BN029053.D

Acq: 06 Dec 2023 13:06

Tgt Ion:276 Resp: 615889

Ion Ratio Lower Upper

276 100

277 23.3 20.3 30.5

138 11.2 9.2 13.8

