

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080223\
 Data File : BM041242.D
 Acq On : 02 Aug 2023 13:25
 Operator : MA/JU
 Sample : 03795-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TOPSOIL-OU3-DENALI-TEMP

Quant Time: Aug 03 03:07:20 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 19:20:51 2023
 Response via : Initial Calibration

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

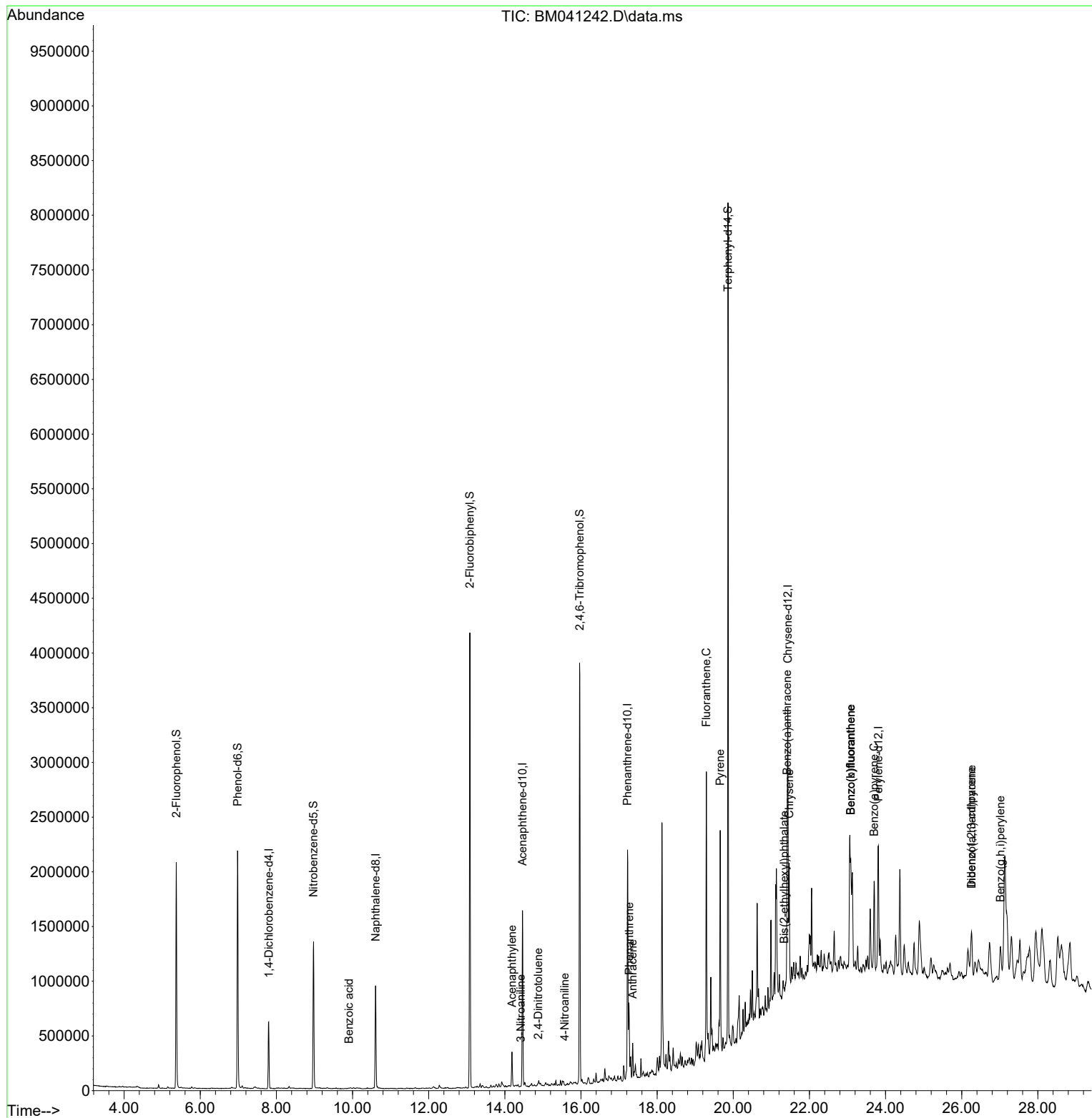
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.798	152	162002	20.000	ng	0.00
21) Naphthalene-d8	10.604	136	734630	20.000	ng	0.00
39) Acenaphthene-d10	14.463	164	517544	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	1234270	20.000	ng	0.00
76) Chrysene-d12	21.433	240	873143	20.000	ng	0.00
86) Perylene-d12	23.809	264	881562	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	861844	79.511	ng	0.00
7) Phenol-d6	6.981	99	1209239	86.065	ng	0.00
23) Nitrobenzene-d5	8.975	82	773366	48.957	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	731747	99.960	ng	0.00
45) 2-Fluorobiphenyl	13.080	172	1995090	48.697	ng	0.00
79) Terphenyl-d14	19.862	244	3541761	73.341	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	9.904	122	3760	7.543	ng	# 63
49) Acenaphthylene	14.186	152	235046	4.648	ng	100
53) 3-Nitroaniline	14.416	138	111	2.589	ng	# 91
57) 2,4-Dinitrotoluene	14.874	165	723	2.730	ng	# 45
62) 4-Nitroaniline	15.574	138	174	4.166	ng	# 75
71) Phenanthrene	17.268	178	288079	4.201	ng	99
72) Anthracene	17.356	178	199154	2.936	ng	100
75) Fluoranthene	19.292	202	1131875	14.691	ng	99
78) Pyrene	19.656	202	1143430	18.726	ng	100
81) Benzo(a)anthracene	21.415	228	624416	10.549	ng	97
83) Chrysene	21.468	228	581921	10.164	ng	98
84) Bis(2-ethylhexyl)phtha...	21.339	149	12826	2.882	ng	# 88
87) Indeno(1,2,3-cd)pyrene	26.256	276	425059	6.558	ng	# 93
88) Benzo(b)fluoranthene	23.086	252	871149	16.634	ng	98
89) Benzo(k)fluoranthene	23.086	252	871149	16.262	ng	97
90) Benzo(a)pyrene	23.697	252	608028	12.083	ng	98
91) Dibenzo(a,h)anthracene	26.262	278	116952	2.163	ng	# 86
92) Benzo(g,h,i)perylene	27.015	276	425061	8.036	ng	97

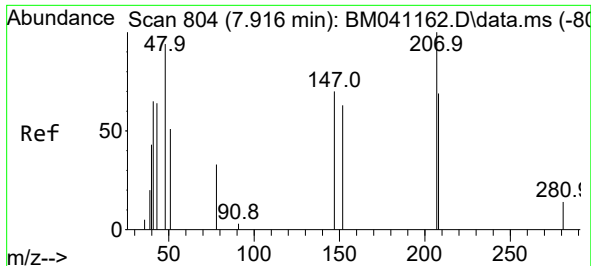
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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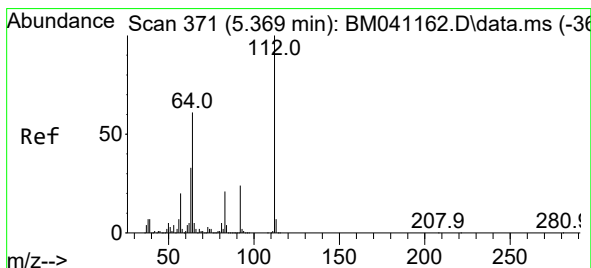
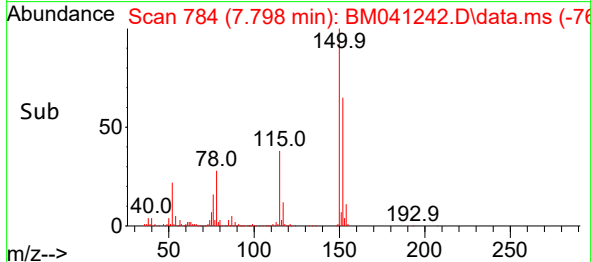
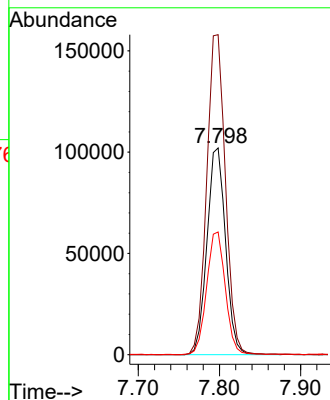
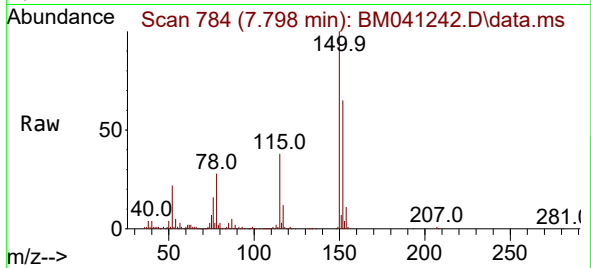




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.798 min Scan# 71
Delta R.T. 0.005 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

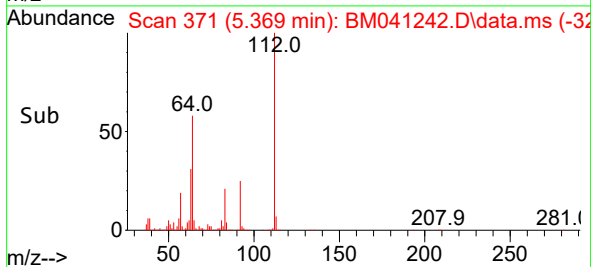
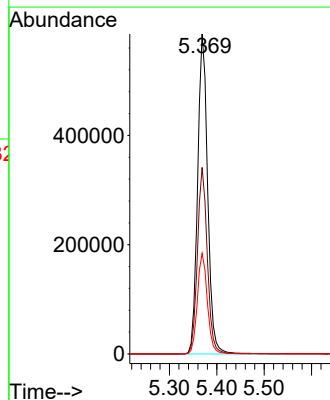
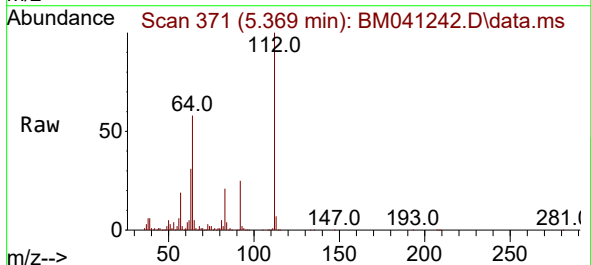
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

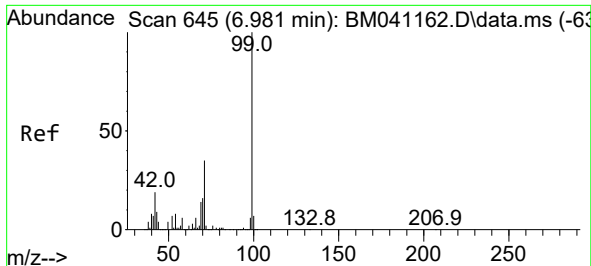
Tgt Ion:152 Resp: 162002
Ion Ratio Lower Upper
152 100
150 154.8 125.5 188.3
115 59.4 48.0 72.0



#5
2-Fluorophenol
Concen: 79.511 ng
RT: 5.369 min Scan# 371
Delta R.T. -0.000 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

Tgt Ion:112 Resp: 861844
Ion Ratio Lower Upper
112 100
64 58.3 48.5 72.7
63 31.4 26.5 39.7

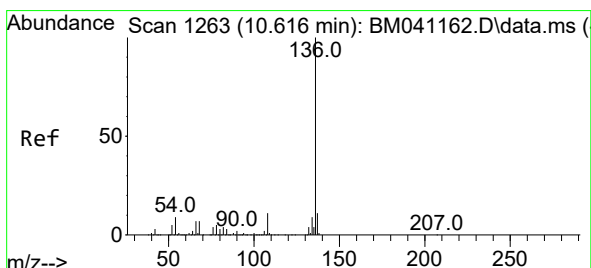
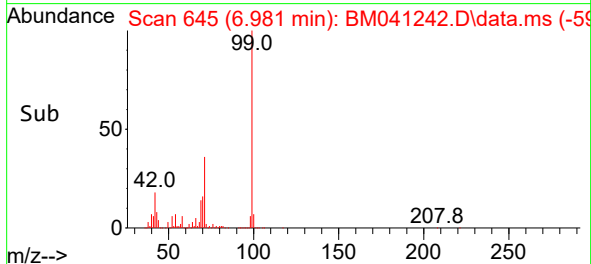
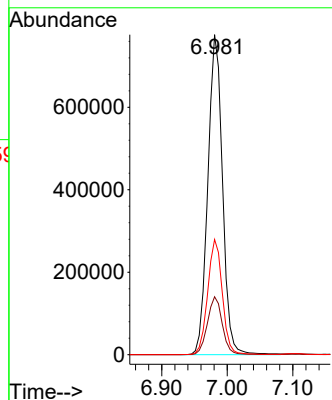
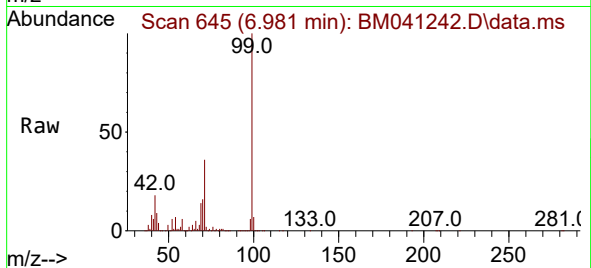




#7
Phenol-d6
Concen: 86.065 ng
RT: 6.981 min Scan# 645
Delta R.T. -0.000 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

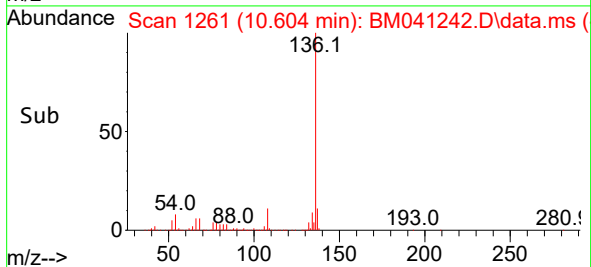
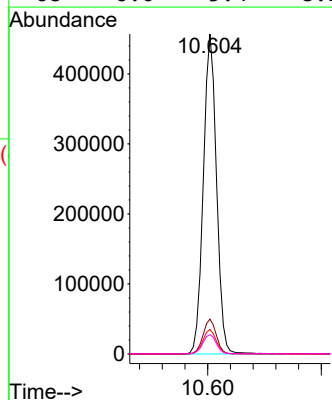
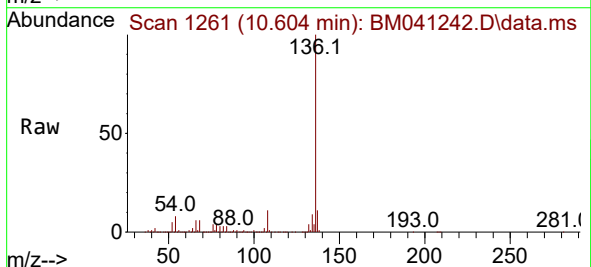
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

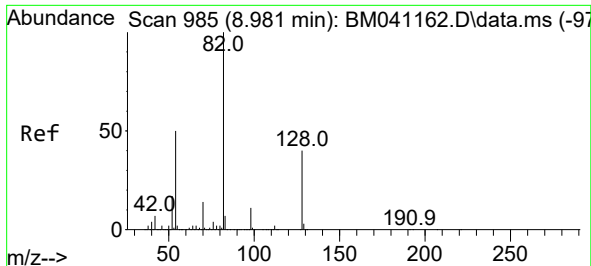
Tgt Ion: 99 Resp: 1209239
Ion Ratio Lower Upper
99 100
42 18.1 15.4 23.0
71 36.0 28.2 42.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.604 min Scan# 1261
Delta R.T. -0.000 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

Tgt Ion:136 Resp: 734630
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 7.6 6.9 10.3
68 6.0 5.4 8.2

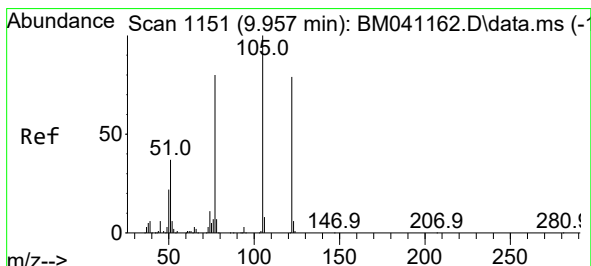
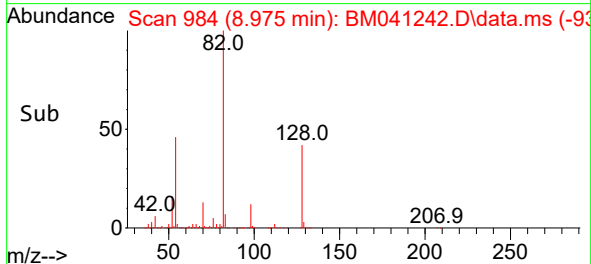
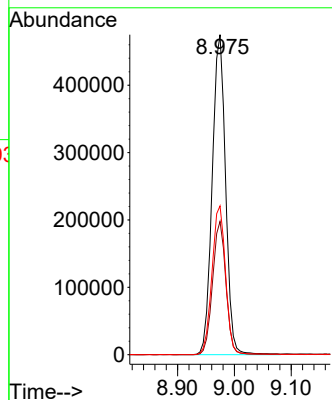
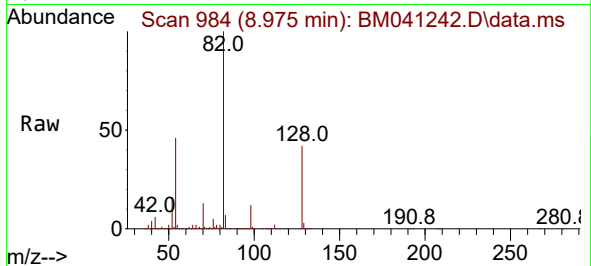




#23
Nitrobenzene-d5
Concen: 48.957 ng
RT: 8.975 min Scan# 91
Delta R.T. -0.000 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

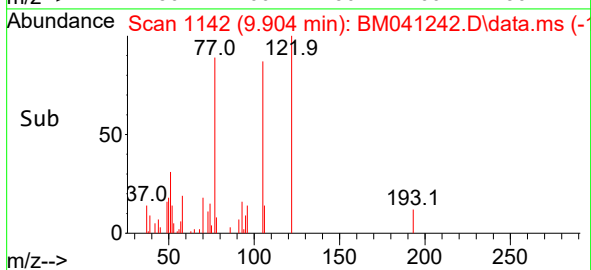
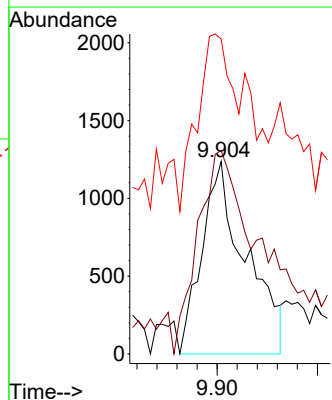
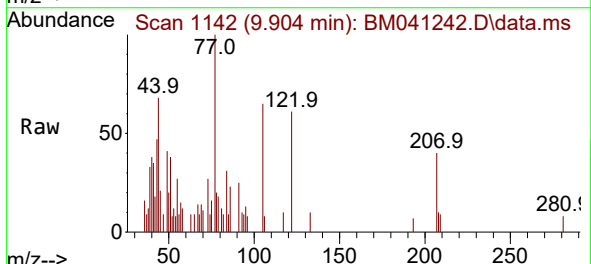
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

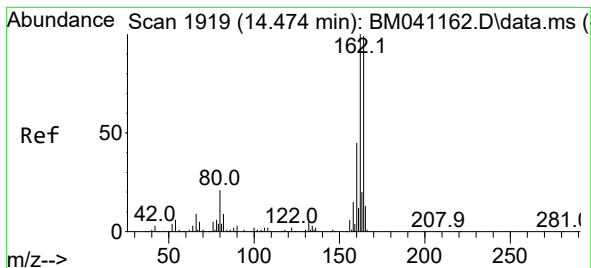
Tgt Ion: 82 Resp: 773366
Ion Ratio Lower Upper
82 100
128 41.7 31.8 47.6
54 46.5 40.1 60.1



#32
Benzoic acid
Concen: 7.543 ng
RT: 9.904 min Scan# 1142
Delta R.T. -0.053 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

Tgt Ion: 122 Resp: 3760
Ion Ratio Lower Upper
122 100
105 105.7 104.0 144.0
77 163.7 79.9 119.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.463 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

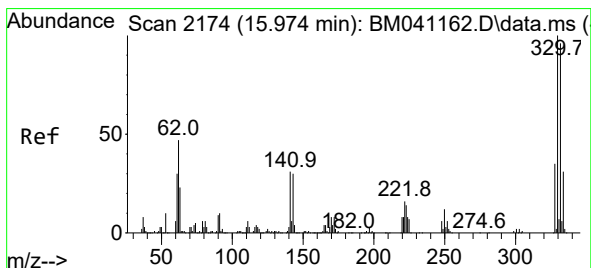
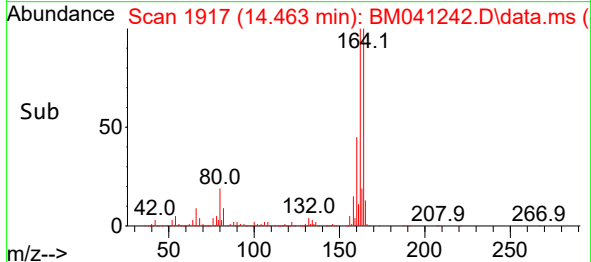
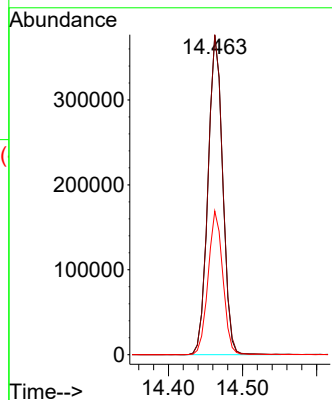
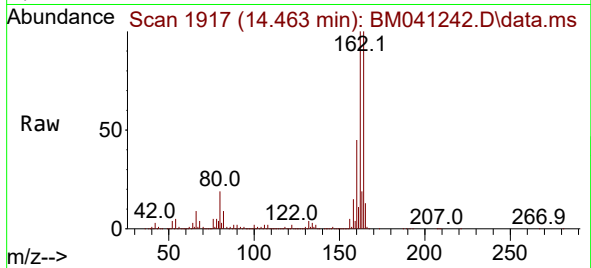
Tgt Ion:164 Resp: 517544

Ion Ratio Lower Upper

164 100

162 100.2 80.4 120.6

160 45.0 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 99.960 ng

RT: 15.968 min Scan# 2173

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

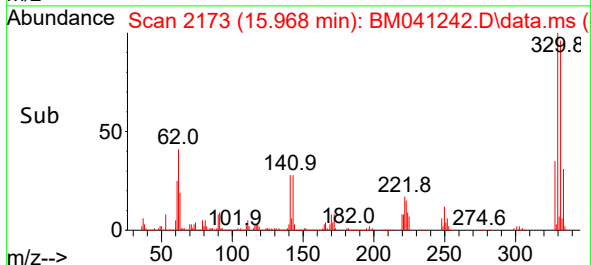
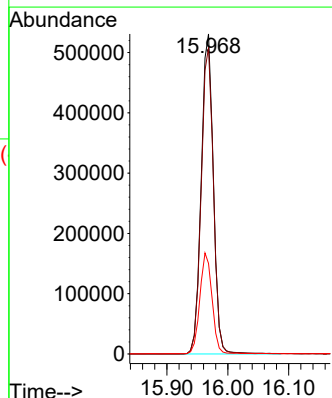
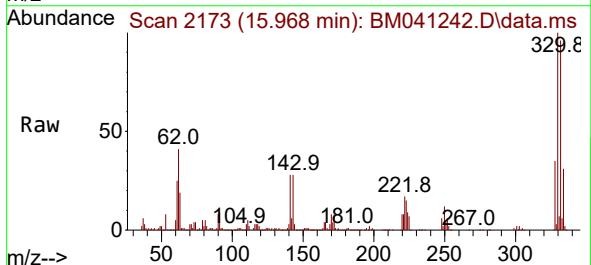
Tgt Ion:330 Resp: 731747

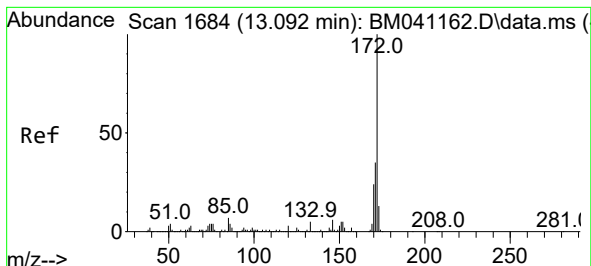
Ion Ratio Lower Upper

330 100

332 96.5 77.7 116.5

141 31.6 28.3 42.5





#45

2-Fluorobiphenyl

Concen: 48.697 ng

RT: 13.080 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Instrument :

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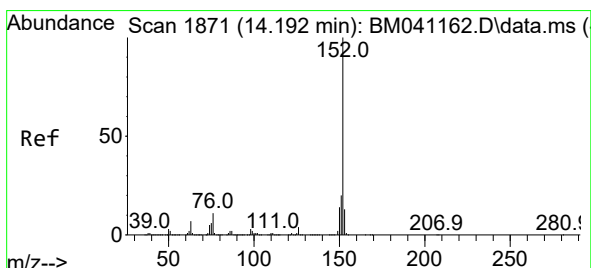
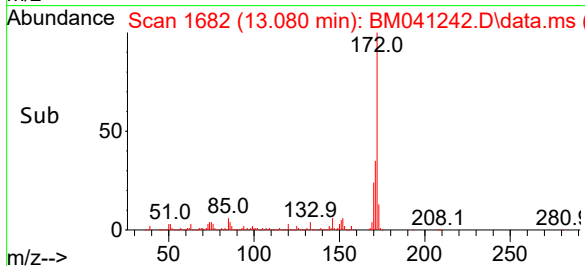
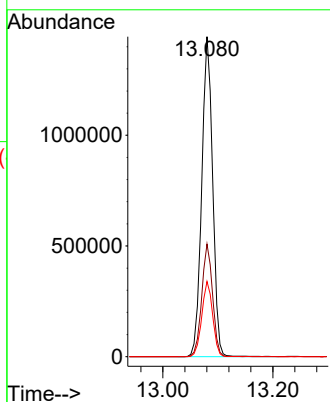
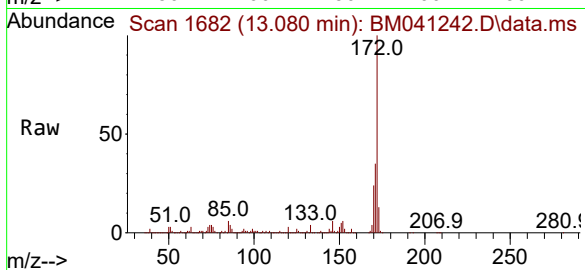
Tgt Ion:172 Resp: 1995090

Ion Ratio Lower Upper

172 100

171 35.2 28.1 42.1

170 23.5 18.9 28.3



#49

Acenaphthylene

Concen: 4.648 ng

RT: 14.186 min Scan# 1870

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

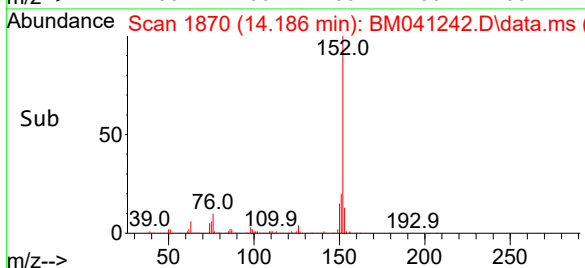
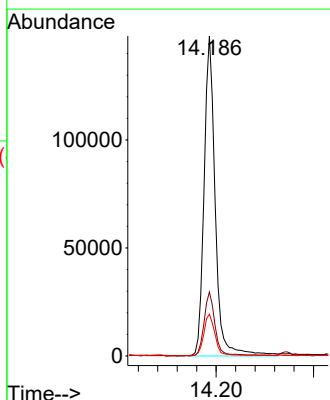
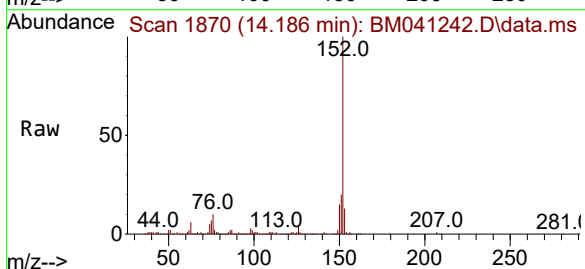
Tgt Ion:152 Resp: 235046

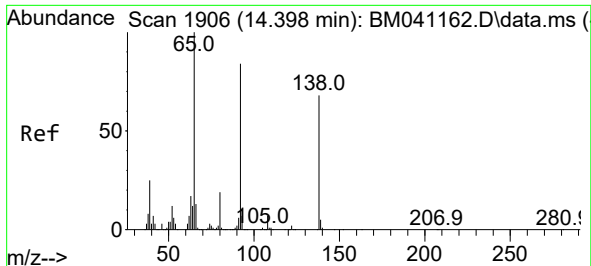
Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

153 13.0 10.5 15.7

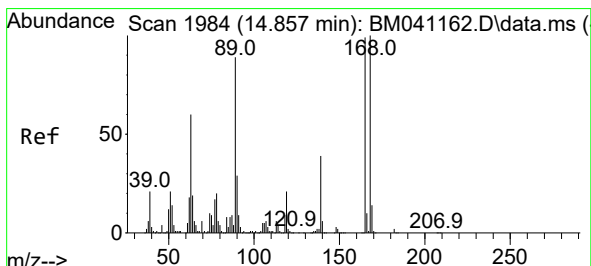
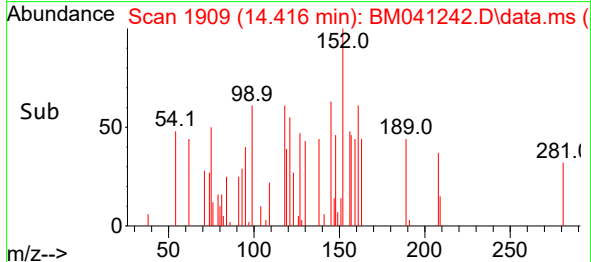
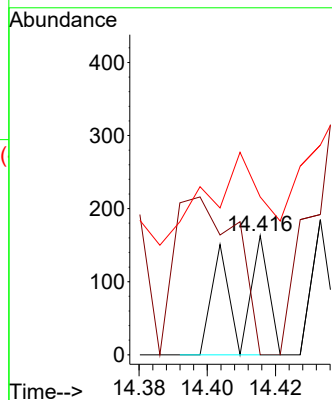
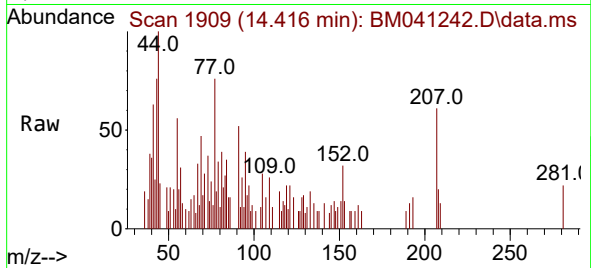




#53
3-Nitroaniline
Concen: 2.589 ng
RT: 14.416 min Scan# 1909
Delta R.T. 0.023 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

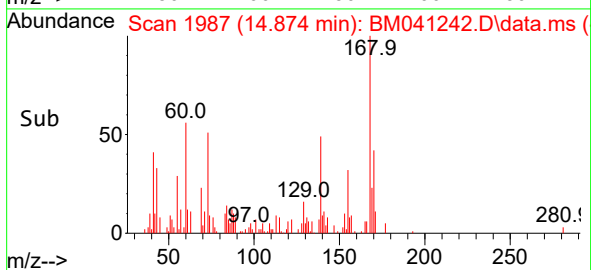
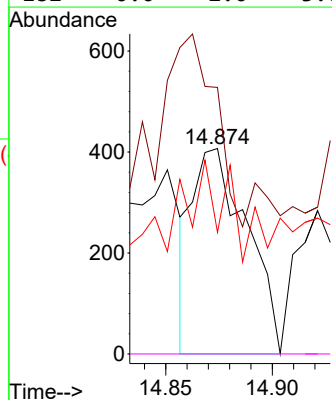
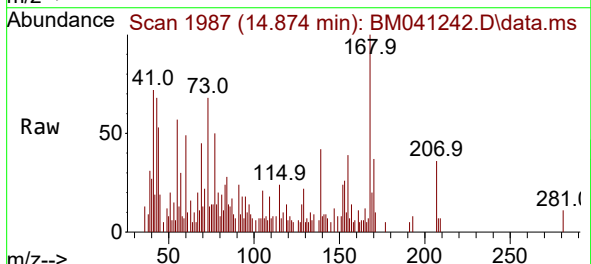
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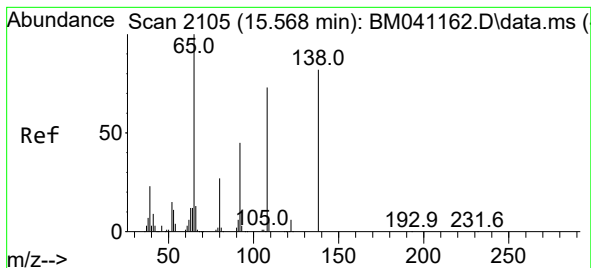
Tgt Ion:138 Resp: 111
Ion Ratio Lower Upper
138 100
108 0.0 7.6 11.4#
92 132.5 98.9 148.3



#57
2,4-Dinitrotoluene
Concen: 2.730 ng
RT: 14.874 min Scan# 1987
Delta R.T. 0.017 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

Tgt Ion:165 Resp: 723
Ion Ratio Lower Upper
165 100
63 129.7 48.3 72.5#
89 59.2 71.8 107.8#
182 0.0 2.0 3.0#

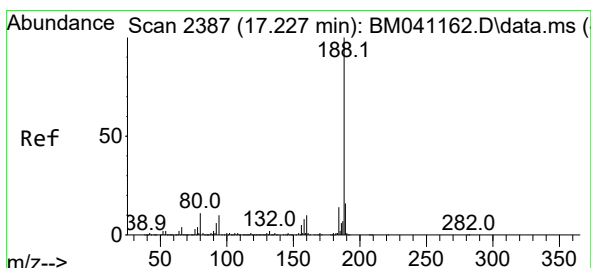
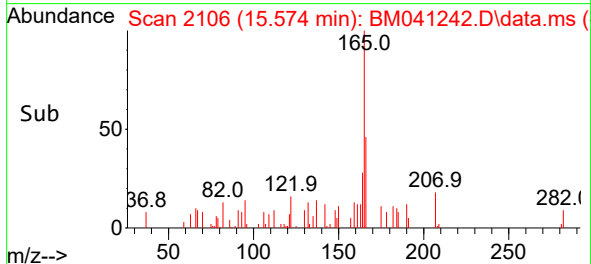
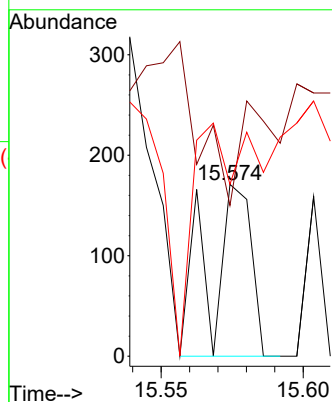
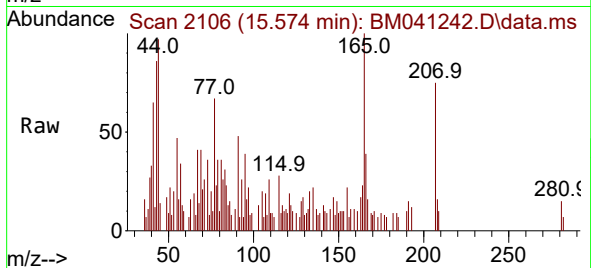




#62
4-Nitroaniline
Concen: 4.166 ng
RT: 15.574 min Scan# 2106
Delta R.T. 0.012 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

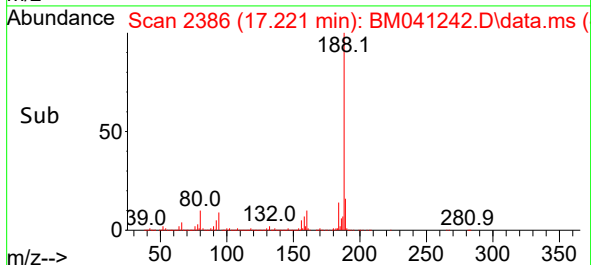
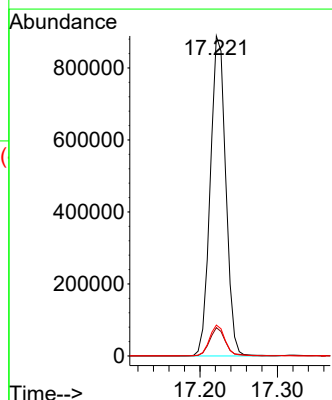
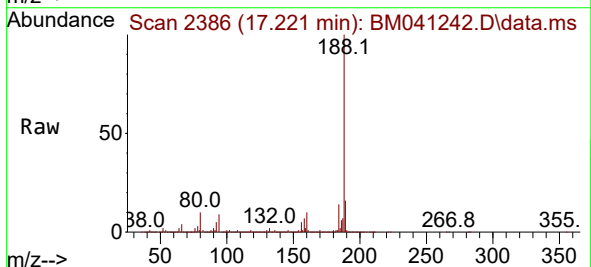
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

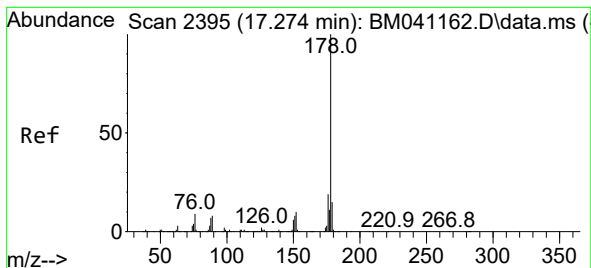
Tgt Ion:138 Resp: 174
Ion Ratio Lower Upper
138 100
92 87.7 35.1 75.1#
108 100.0 67.8 107.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 2386
Delta R.T. -0.000 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

Tgt Ion:188 Resp: 1234270
Ion Ratio Lower Upper
188 100
94 8.9 8.2 12.2
80 9.6 8.6 13.0





#71

Phenanthrene

Concen: 4.201 ng

RT: 17.268 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

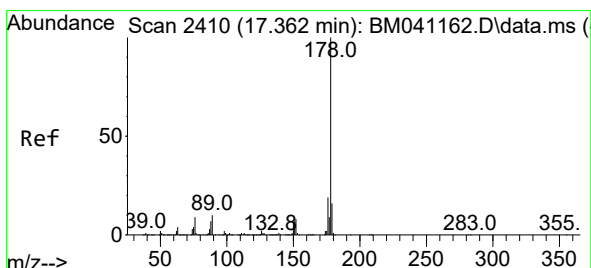
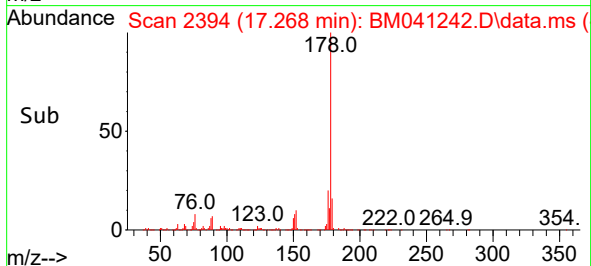
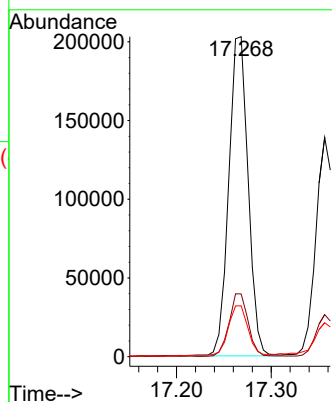
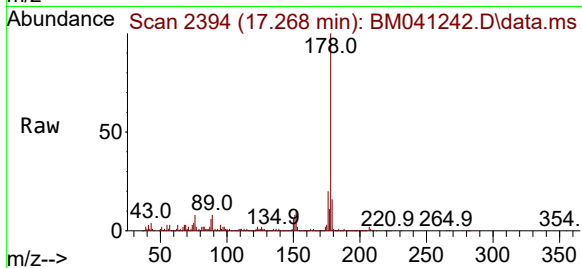
Tgt Ion:178 Resp: 288079

Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

179 15.9 12.1 18.1



#72

Anthracene

Concen: 2.936 ng

RT: 17.356 min Scan# 2409

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

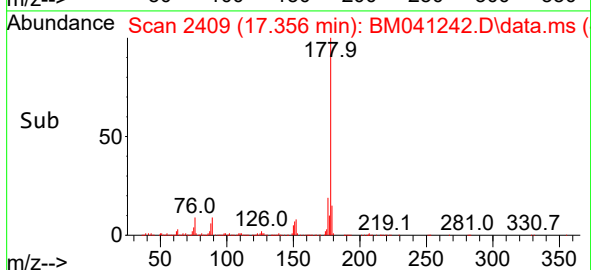
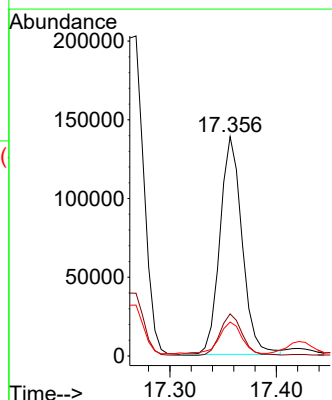
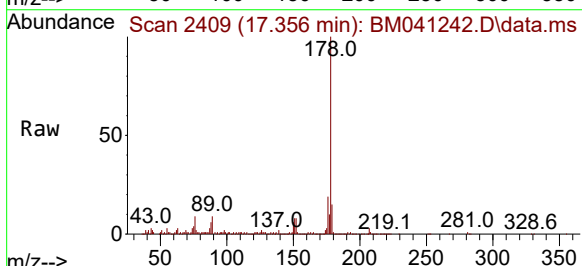
Tgt Ion:178 Resp: 199154

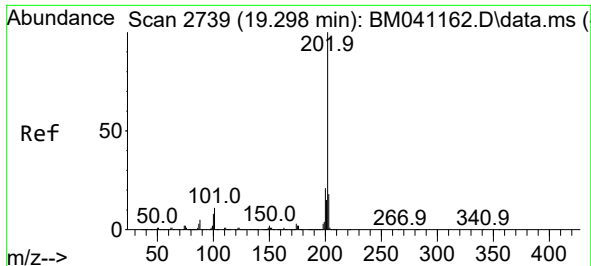
Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 15.5 12.4 18.6

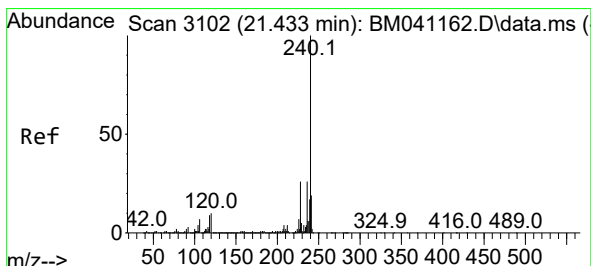
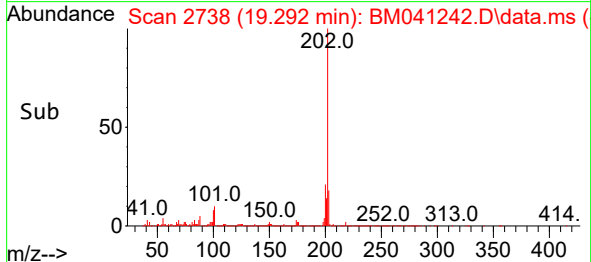
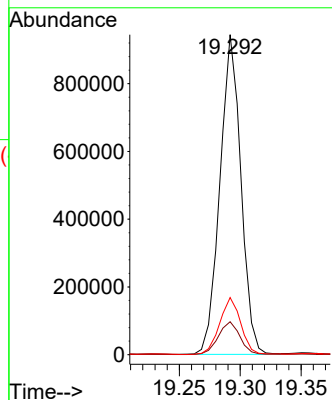
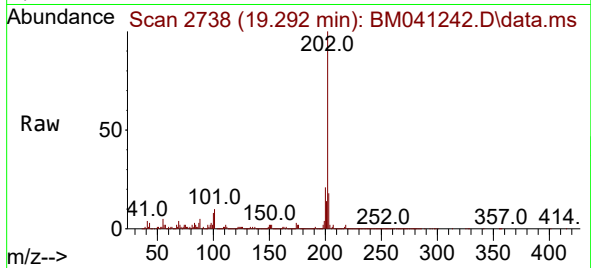




#75
Fluoranthene
Concen: 14.691 ng
RT: 19.292 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

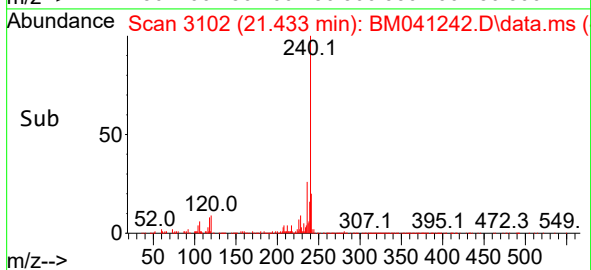
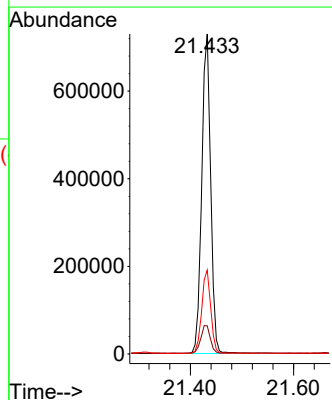
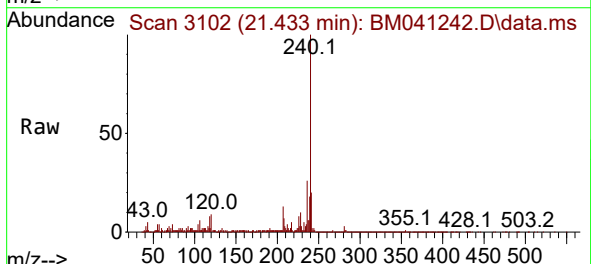
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

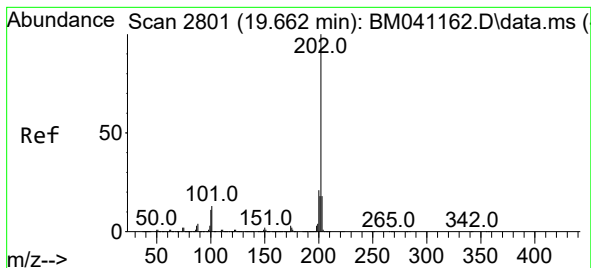
Tgt Ion:202 Resp: 1131875
Ion Ratio Lower Upper
202 100
101 10.3 0.0 30.8
203 17.9 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

Tgt Ion:240 Resp: 873143
Ion Ratio Lower Upper
240 100
120 8.8 8.3 12.5
236 26.2 20.6 30.8





#78

Pyrene

Concen: 18.726 ng

RT: 19.656 min Scan# 2800

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

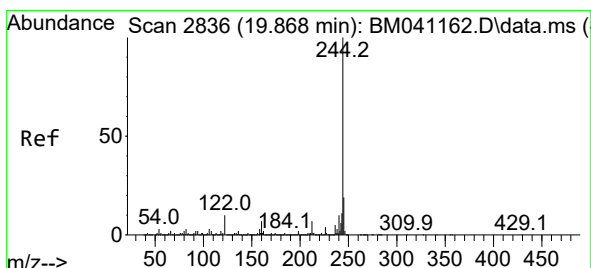
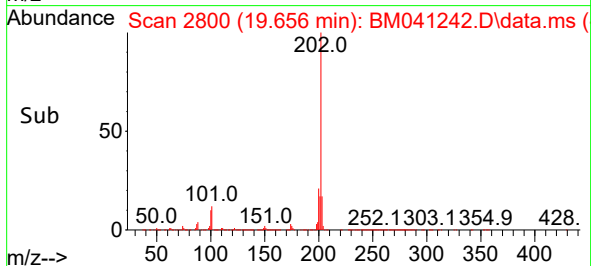
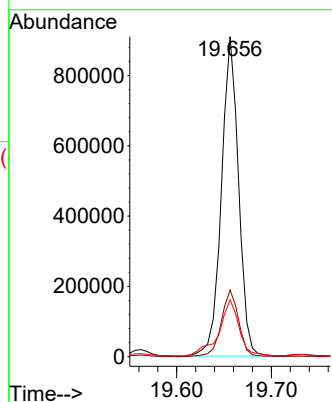
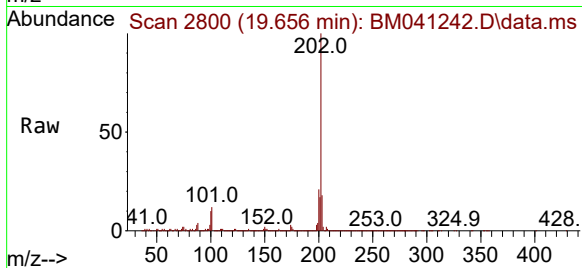
Tgt Ion:202 Resp: 1143430

Ion Ratio Lower Upper

202 100

200 20.8 16.9 25.3

203 17.8 14.1 21.1



#79

Terphenyl-d14

Concen: 73.341 ng

RT: 19.862 min Scan# 2835

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

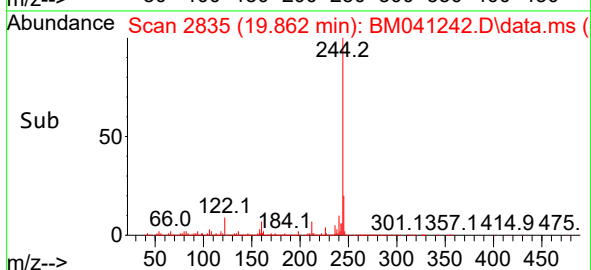
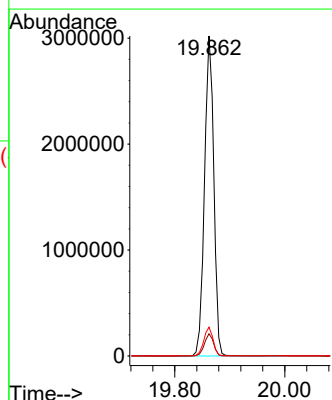
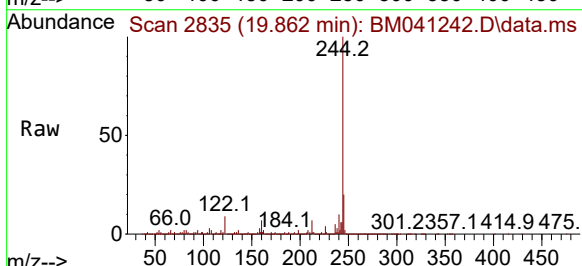
Tgt Ion:244 Resp: 3541761

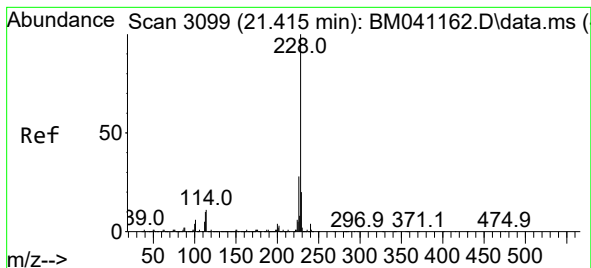
Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.2

122 9.0 7.8 11.6





#81

Benzo(a)anthracene

Concen: 10.549 ng

RT: 21.415 min Scan# 3099

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

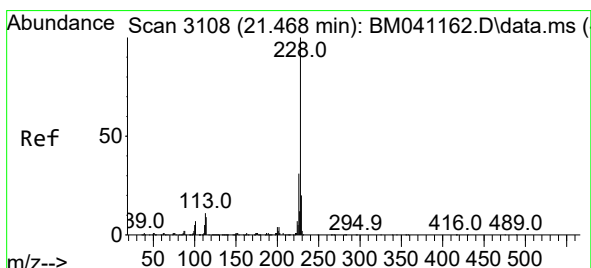
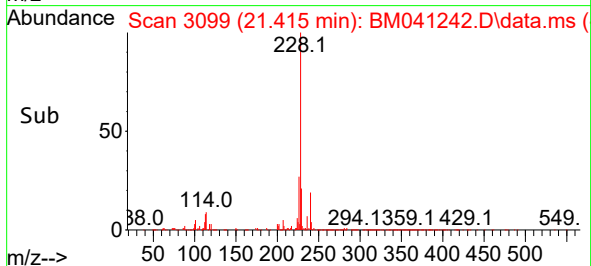
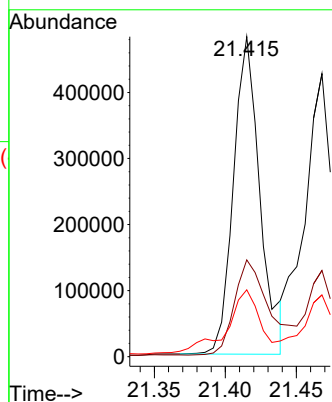
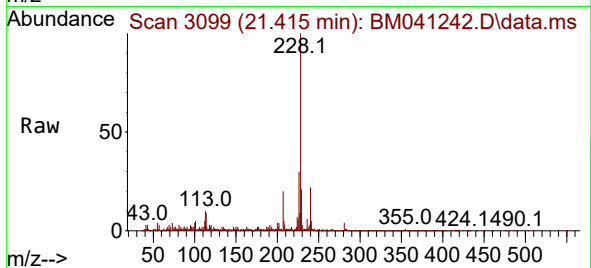
Tgt Ion:228 Resp: 624416

Ion Ratio Lower Upper

228 100

226 30.3 22.4 33.6

229 20.9 15.8 23.8



#83

Chrysene

Concen: 10.164 ng

RT: 21.468 min Scan# 3108

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

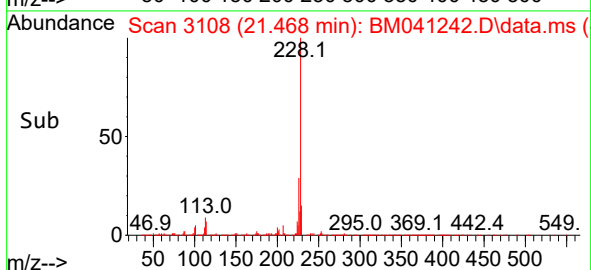
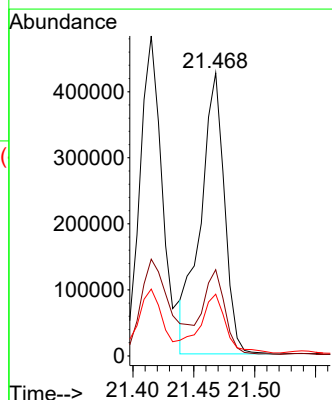
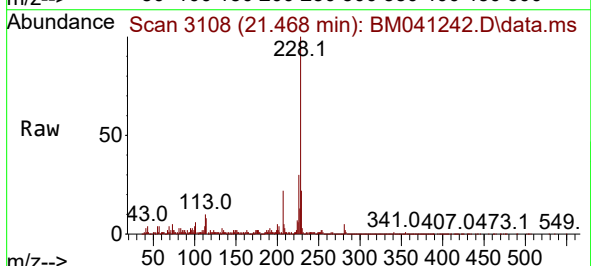
Tgt Ion:228 Resp: 581921

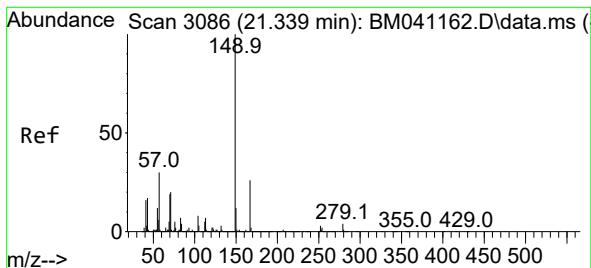
Ion Ratio Lower Upper

228 100

226 30.5 24.5 36.7

229 21.8 15.8 23.8

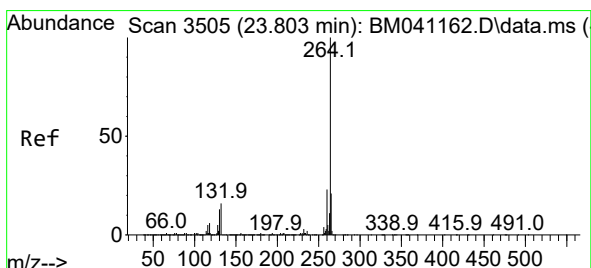
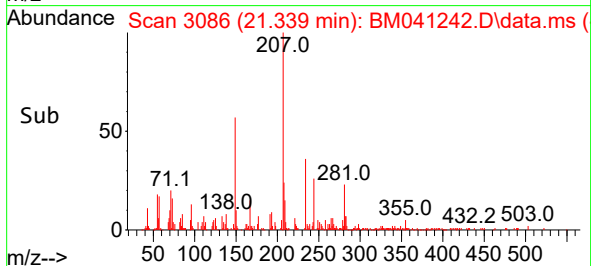
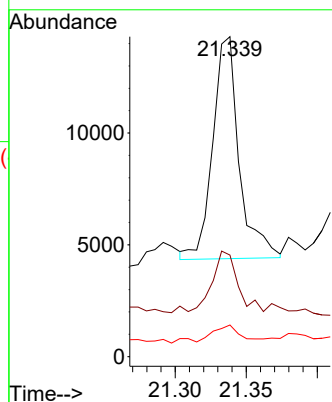
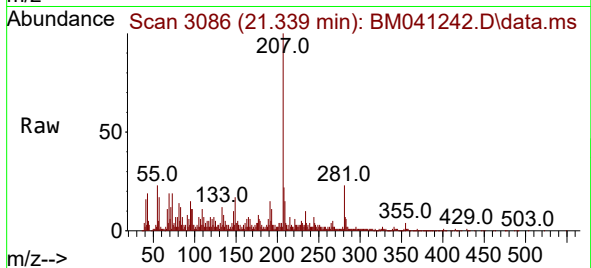




#84
Bis(2-ethylhexyl)phthalate
Concen: 2.882 ng
RT: 21.339 min Scan# 3086
Delta R.T. 0.006 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

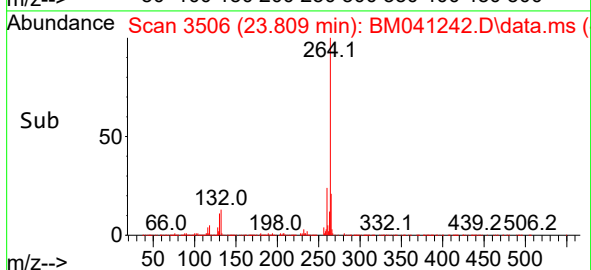
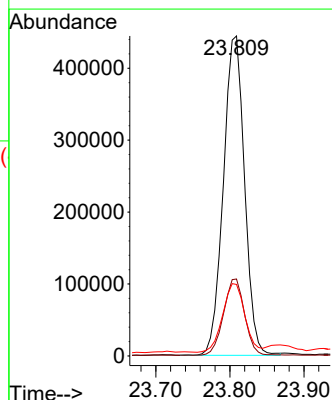
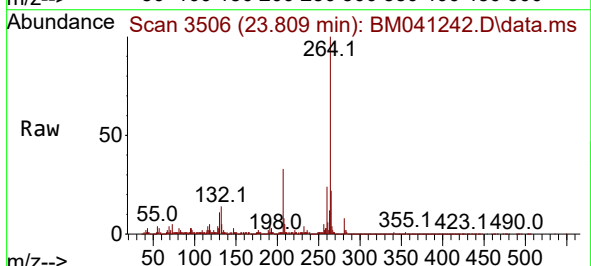
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

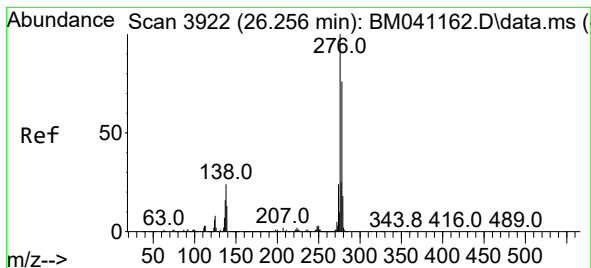
Tgt Ion:149 Resp: 12826
Ion Ratio Lower Upper
149 100
167 31.8 21.0 31.6#
279 9.9 3.1 4.7#



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.809 min Scan# 3506
Delta R.T. 0.006 min
Lab File: BM041242.D
Acq: 02 Aug 2023 13:25

Tgt Ion:264 Resp: 881562
Ion Ratio Lower Upper
264 100
260 24.1 18.5 27.7
265 22.3 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.558 ng

RT: 26.256 min Scan# 3922

Delta R.T. -0.006 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

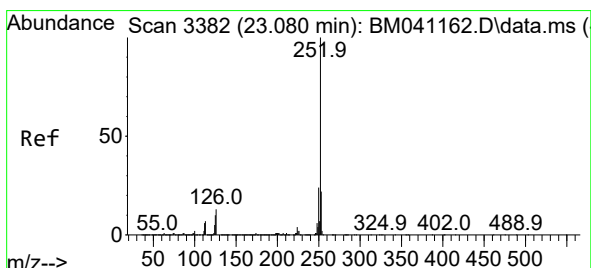
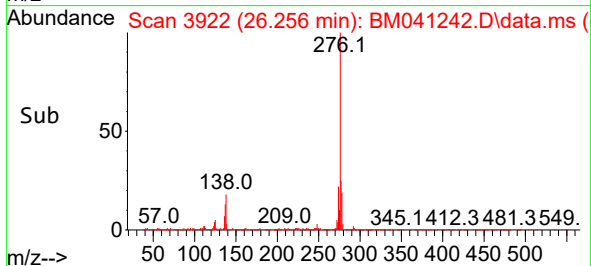
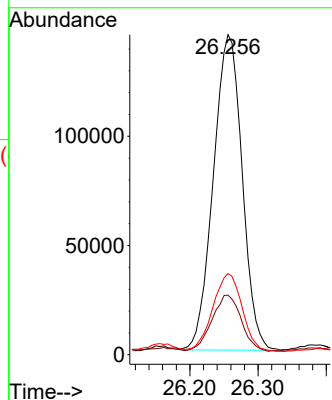
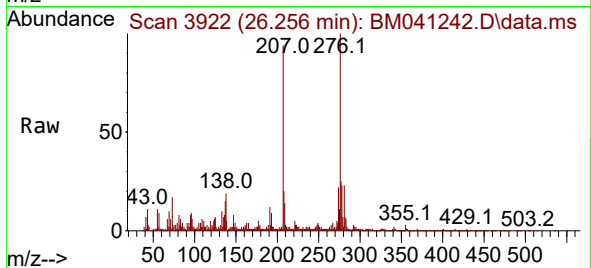
Tgt Ion:276 Resp: 425059

Ion Ratio Lower Upper

276 100

138 18.1 20.0 30.0#

277 25.2 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 16.634 ng

RT: 23.086 min Scan# 3383

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

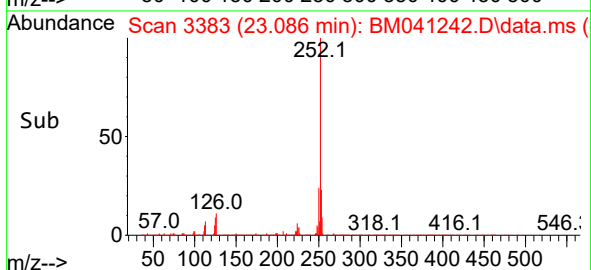
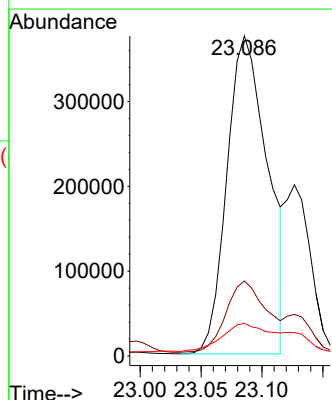
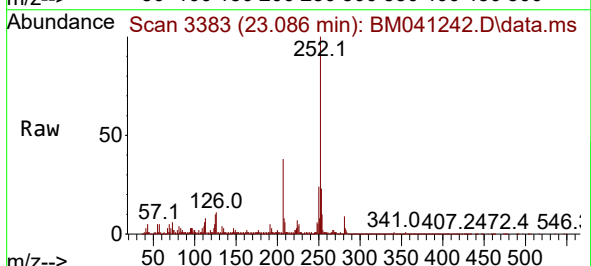
Tgt Ion:252 Resp: 871149

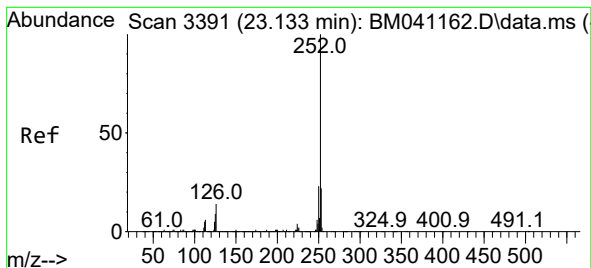
Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

125 10.2 8.2 12.4





#89

Benzo(k)fluoranthene

Concen: 16.262 ng

RT: 23.086 min Scan# 31

Delta R.T. -0.047 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

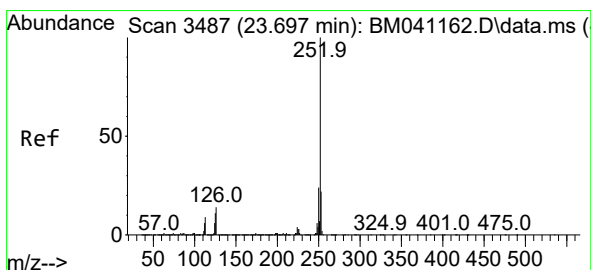
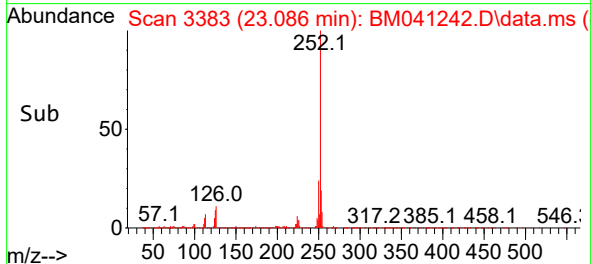
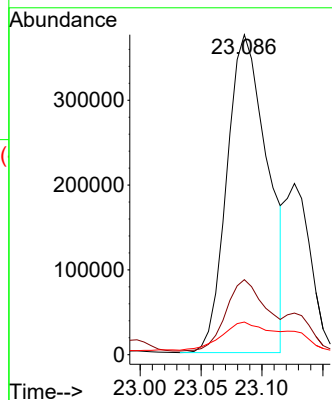
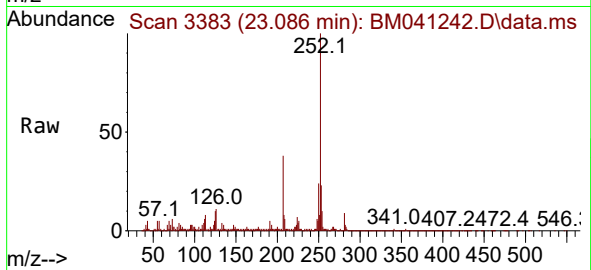
Tgt Ion:252 Resp: 871149

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.0

125 10.2 7.6 11.4



#90

Benzo(a)pyrene

Concen: 12.083 ng

RT: 23.697 min Scan# 3487

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

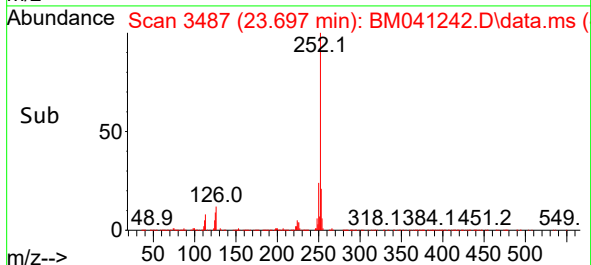
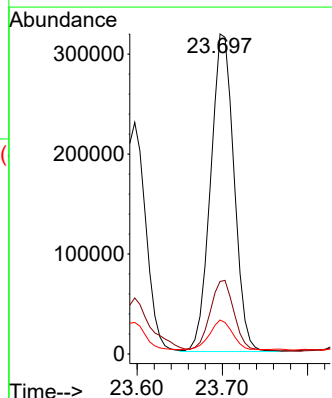
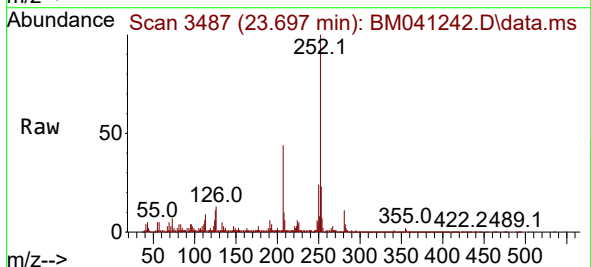
Tgt Ion:252 Resp: 608028

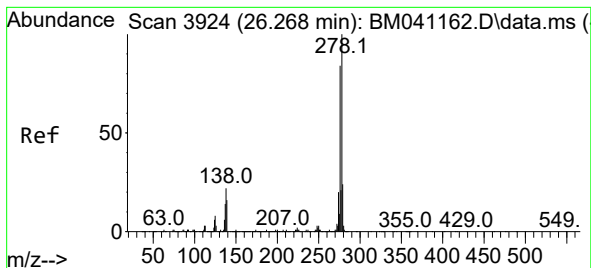
Ion Ratio Lower Upper

252 100

253 22.6 17.3 25.9

125 10.6 9.0 13.4





#91

Dibenzo(a,h)anthracene

Concen: 2.163 ng

RT: 26.262 min Scan# 3924

Delta R.T. -0.012 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

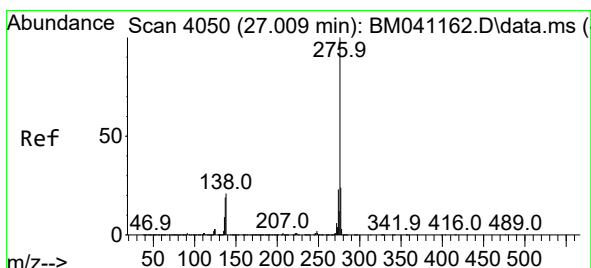
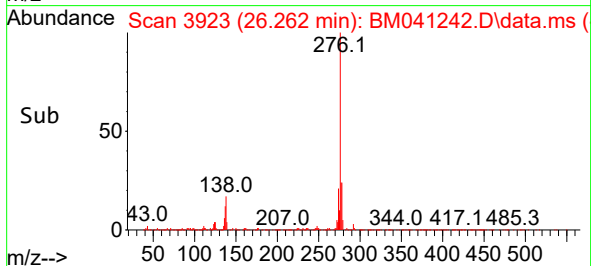
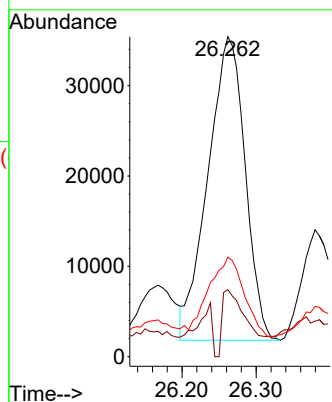
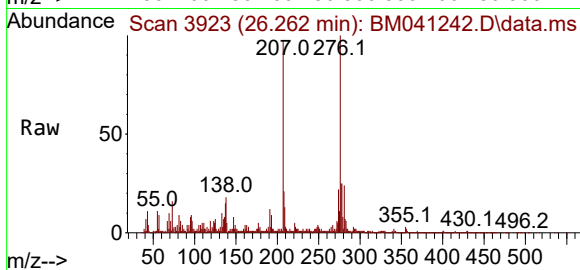
Tgt Ion:278 Resp: 116952

Ion Ratio Lower Upper

278 100

139 21.0 12.7 19.1#

279 31.1 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 8.036 ng

RT: 27.015 min Scan# 4051

Delta R.T. -0.000 min

Lab File: BM041242.D

Acq: 02 Aug 2023 13:25

Tgt Ion:276 Resp: 425061

Ion Ratio Lower Upper

276 100

277 24.9 19.1 28.7

138 19.6 17.1 25.7

