

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012423\
 Data File : BG056415.D
 Acq On : 24 Jan 2023 23:16
 Operator : CG/JU
 Sample : 01256-01DL 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-012023DL

Quant Time: Jan 25 05:36:14 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 04:54:56 2023
 Response via : Initial Calibration

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

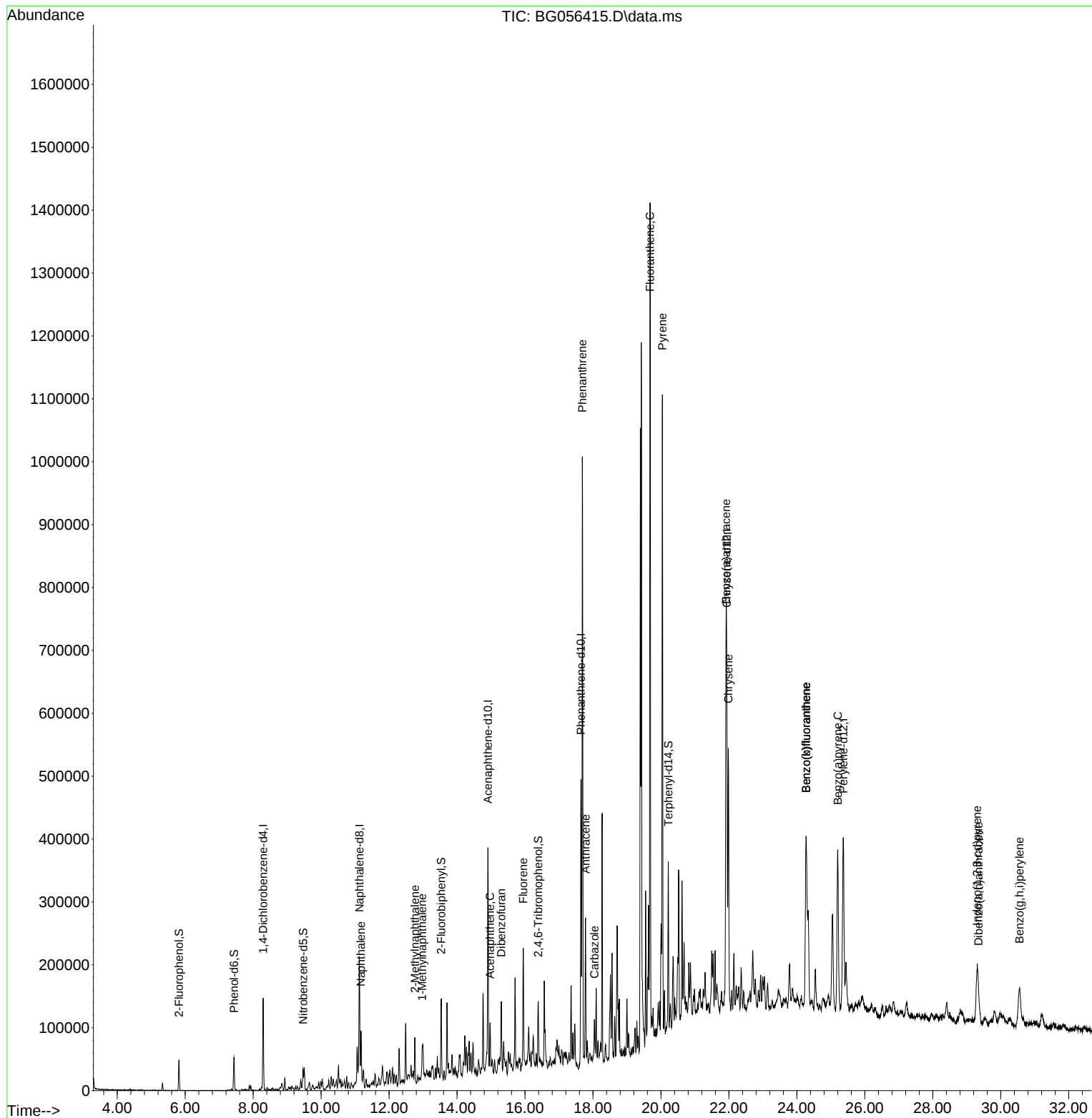
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.291	152	50119	20.000	ng	0.00
21) Naphthalene-d8	11.123	136	188609	20.000	ng	0.00
39) Acenaphthene-d10	14.907	164	135969	20.000	ng	0.00
64) Phenanthrene-d10	17.645	188	314806	20.000	ng	0.00
76) Chrysene-d12	21.934	240	307686	20.000	ng	# 0.00
86) Perylene-d12	25.366	264	347989	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.818	112	29618	10.551	ng	0.00
7) Phenol-d6	7.434	99	41512	9.630	ng	0.00
23) Nitrobenzene-d5	9.467	82	22728	6.164	ng	0.00
42) 2,4,6-Tribromophenol	16.388	330	16899	9.813	ng	0.00
45) 2-Fluorobiphenyl	13.532	172	69989	7.108	ng	0.00
79) Terphenyl-d14	20.219	244	118821	6.917	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	11.170	128	72253	7.279	ng	98
37) 2-Methylnaphthalene	12.757	142	34873	4.161	ng	96
38) 1-Methylnaphthalene	12.974	142	24695	3.173	ng	100
52) Acenaphthene	14.972	154	26959	3.314	ng	95
55) Dibenzofuran	15.301	168	67424	5.009	ng	96
58) Fluorene	15.947	166	90382	8.347	ng	97
71) Phenanthrene	17.686	178	660458	40.484	ng	99
72) Anthracene	17.780	178	163106	9.692	ng	98
73) Carbazole	18.045	167	42991	3.039	ng	97
75) Fluoranthene	19.678	202	879572	41.332	ng	99
78) Pyrene	20.042	202	734963	33.889	ng	99
81) Benzo(a)anthracene	21.911	228	388894	17.995	ng	99
83) Chrysene	21.981	228	322801	15.946	ng	97
87) Indeno(1,2,3-cd)pyrene	29.302	276	179992	7.112	ng	# 95
88) Benzo(b)fluoranthene	24.273	252	416999	18.860	ng	# 99
89) Benzo(k)fluoranthene	24.273	252	416999	18.940	ng	99
90) Benzo(a)pyrene	25.201	252	326900	15.159	ng	# 96
91) Dibenzo(a,h)anthracene	29.343	278	49942	2.354	ng	# 96
92) Benzo(g,h,i)perylene	30.554	276	168645	8.196	ng	# 99

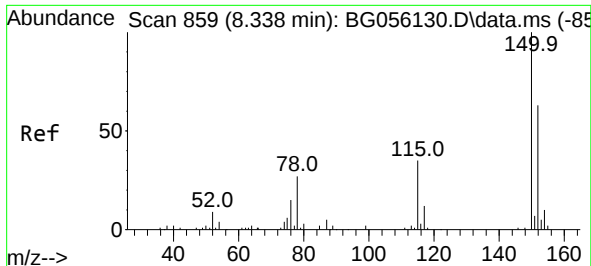
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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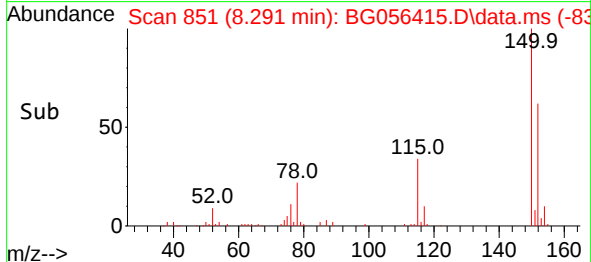
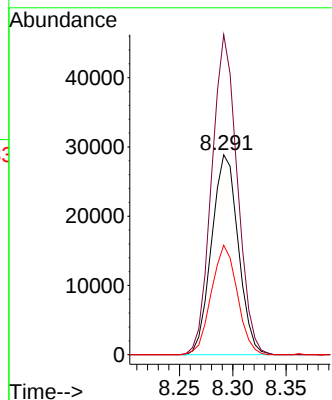
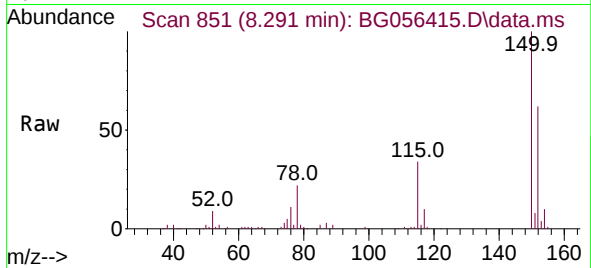




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.291 min Scan# 81
Delta R.T. -0.002 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

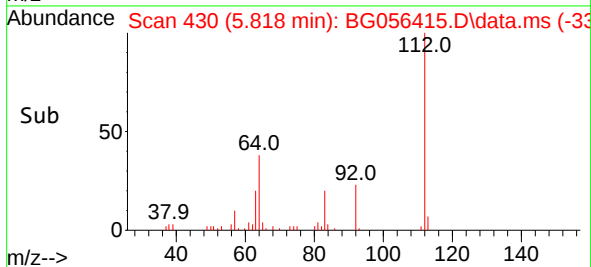
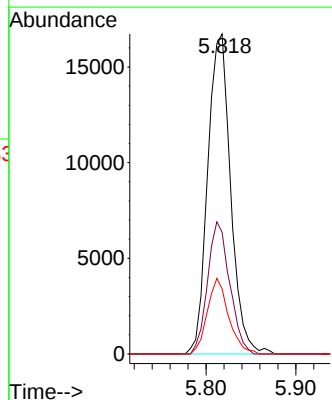
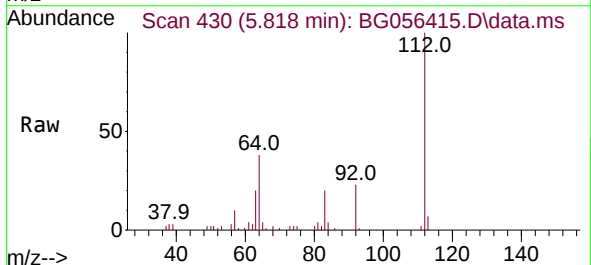
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL

Tgt Ion:152 Resp: 50119
Ion Ratio Lower Upper
152 100
150 160.1 127.9 191.9
115 54.8 44.2 66.2



#5
2-Fluorophenol
Concen: 10.551 ng
RT: 5.818 min Scan# 430
Delta R.T. 0.004 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:112 Resp: 29618
Ion Ratio Lower Upper
112 100
64 38.0 33.3 49.9
63 20.3 19.0 28.4

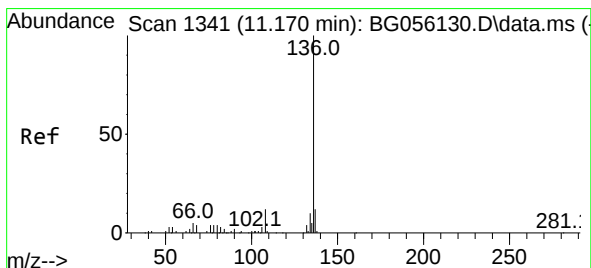
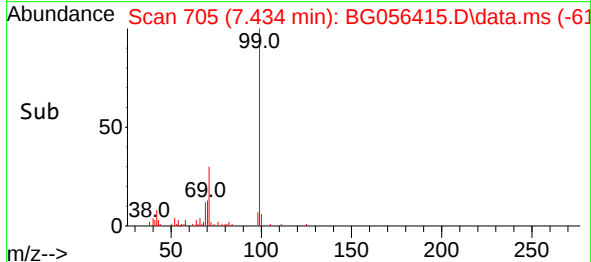
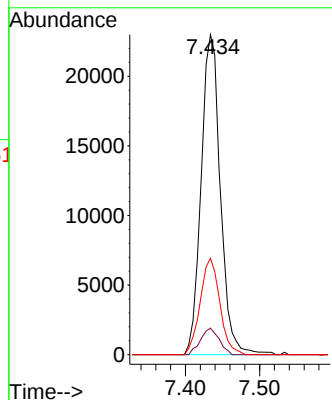
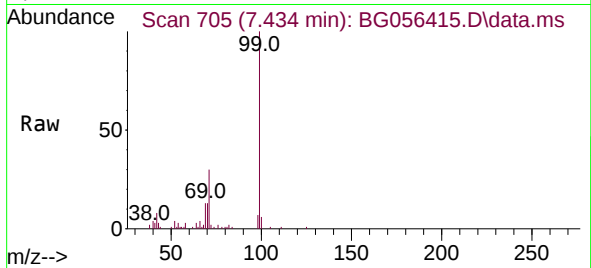




#7
Phenol-d6
Concen: 9.630 ng
RT: 7.434 min Scan# 711
Delta R.T. -0.002 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

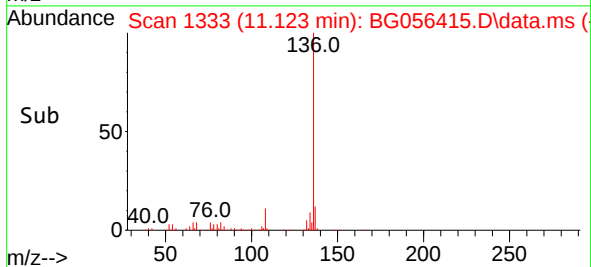
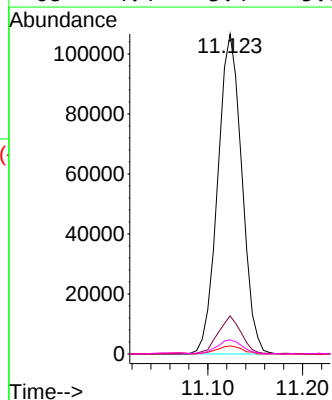
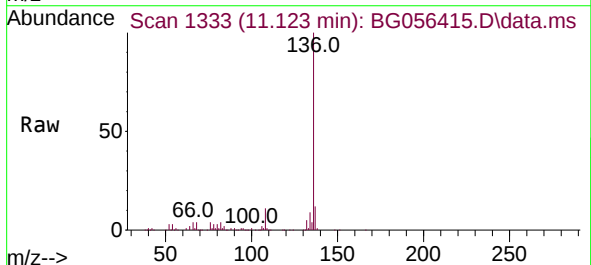
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL

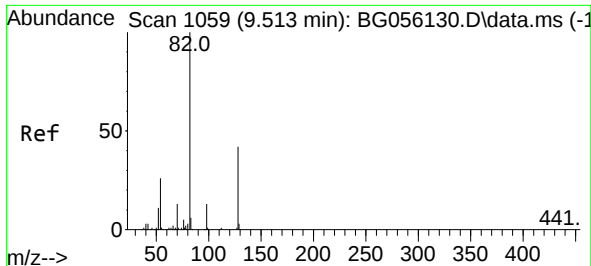
Tgt Ion: 99 Resp: 41512
Ion Ratio Lower Upper
99 100
42 8.3 5.9 8.9
71 30.1 25.4 38.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.123 min Scan# 1333
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion: 136 Resp: 188609
Ion Ratio Lower Upper
136 100
137 11.9 9.4 14.0
54 2.5 2.2 3.2
68 4.4 3.4 5.0





#23

Nitrobenzene-d5

Concen: 6.164 ng

RT: 9.467 min Scan# 1051

Delta R.T. -0.008 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL

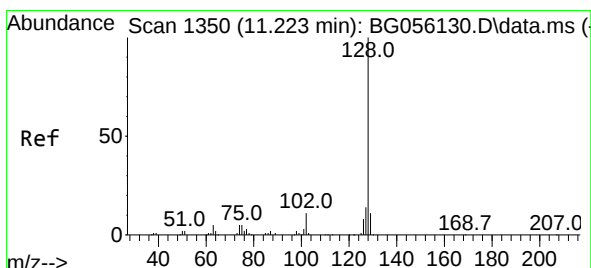
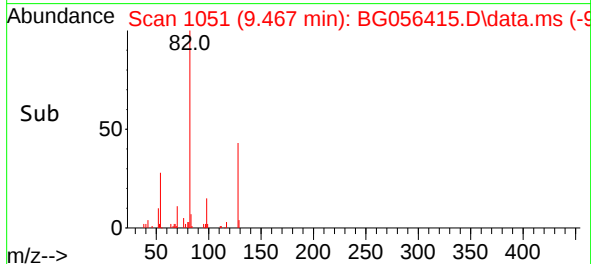
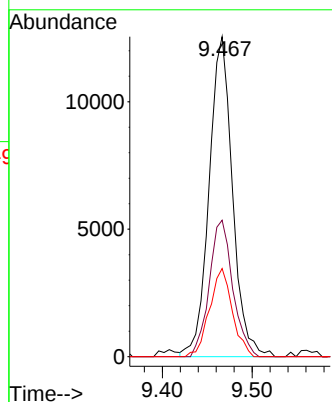
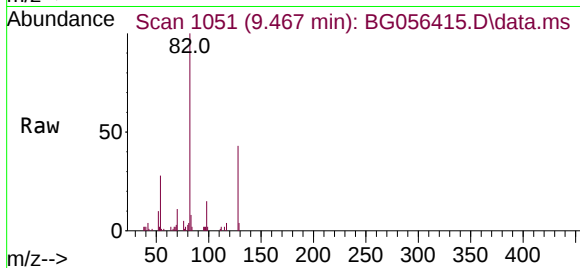
Tgt Ion: 82 Resp: 22728

Ion Ratio Lower Upper

82 100

128 42.7 33.4 50.2

54 27.6 20.3 30.5



#31

Naphthalene

Concen: 7.279 ng

RT: 11.170 min Scan# 1341

Delta R.T. -0.013 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

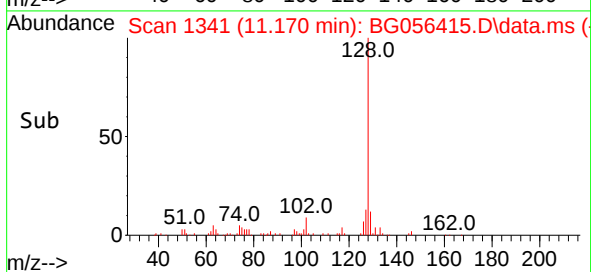
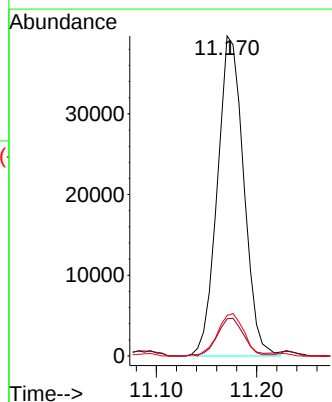
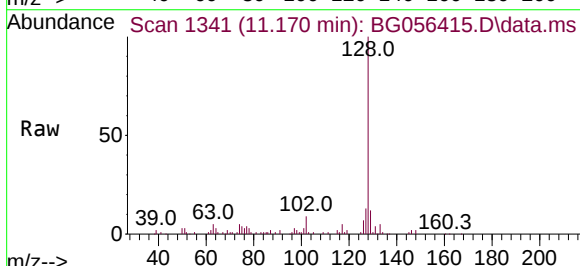
Tgt Ion: 128 Resp: 72253

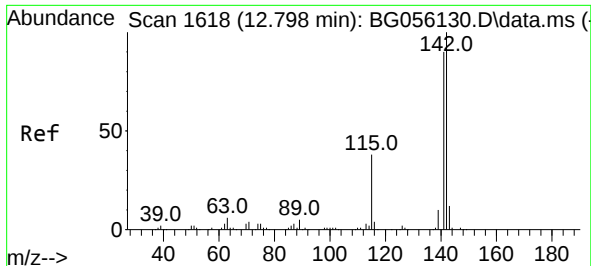
Ion Ratio Lower Upper

128 100

129 11.6 8.9 13.3

127 12.7 11.2 16.8





#37

2-Methylnaphthalene

Concen: 4.161 ng

RT: 12.757 min Scan# 1

Delta R.T. -0.008 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL

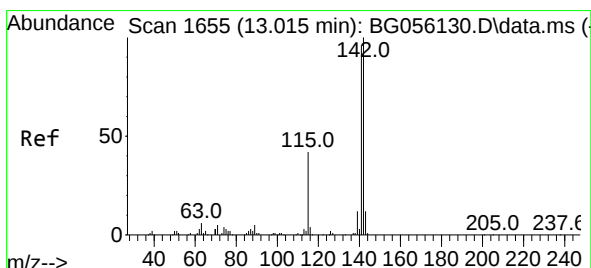
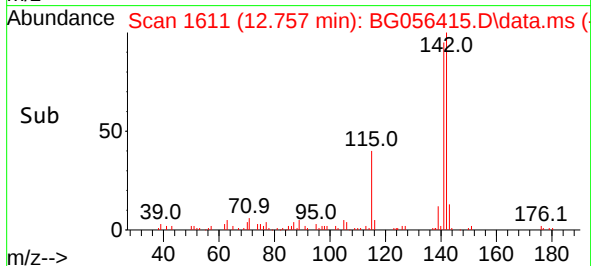
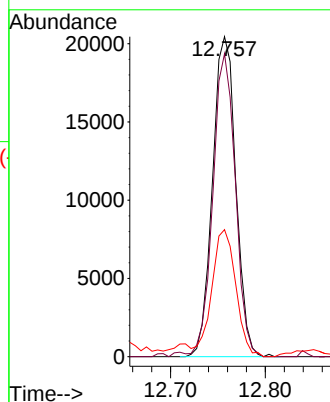
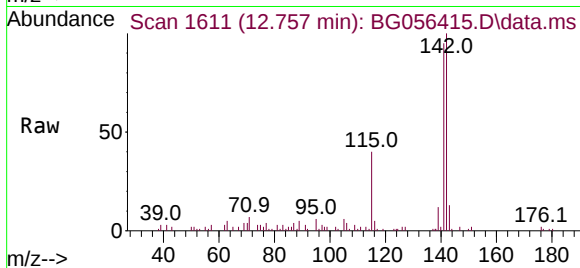
Tgt Ion:142 Resp: 34873

Ion Ratio Lower Upper

142 100

141 94.6 72.2 108.4

115 39.7 30.7 46.1



#38

1-Methylnaphthalene

Concen: 3.173 ng

RT: 12.974 min Scan# 1648

Delta R.T. -0.008 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

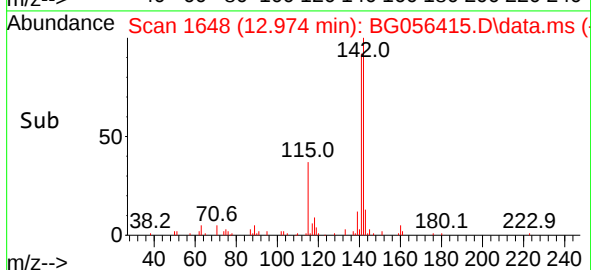
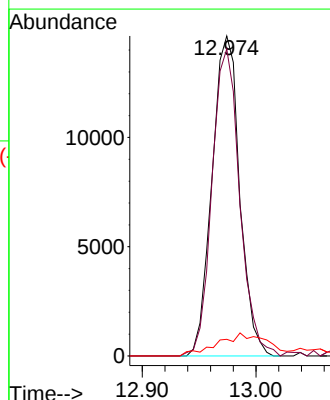
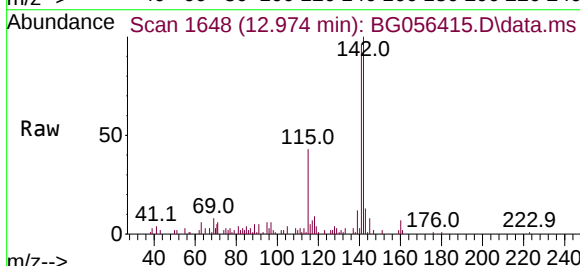
Tgt Ion:142 Resp: 24695

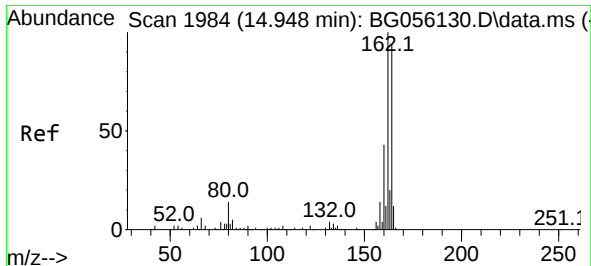
Ion Ratio Lower Upper

142 100

141 96.0 77.0 115.6

116 5.2 3.6 5.4

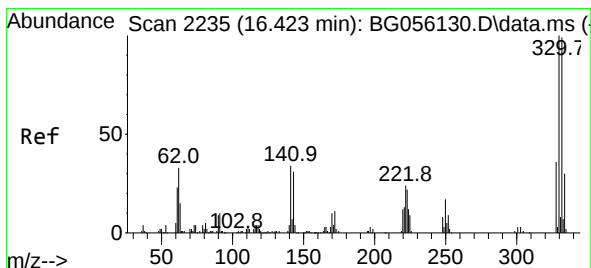
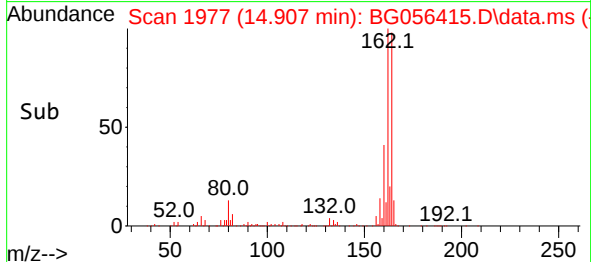
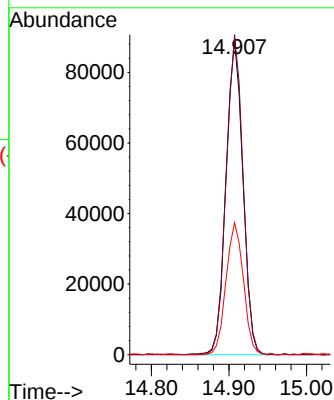
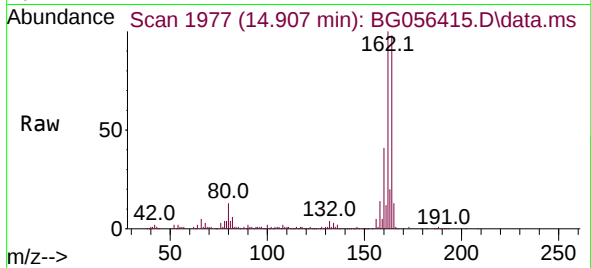




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.907 min Scan# 1984
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

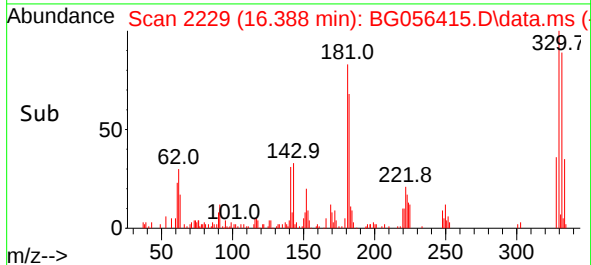
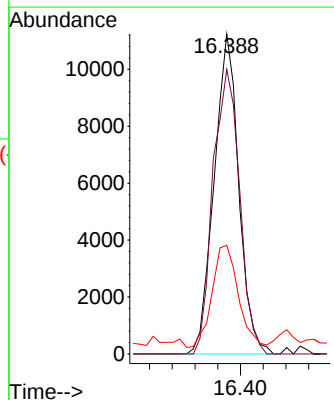
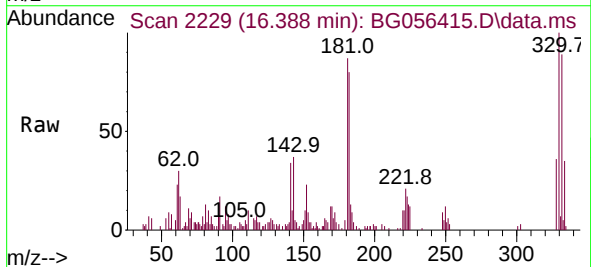
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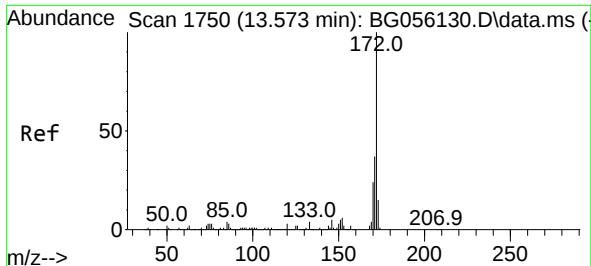
Tgt Ion:164 Resp: 135969
Ion Ratio Lower Upper
164 100
162 102.0 84.7 127.1
160 42.1 36.3 54.5



#42
2,4,6-Tribromophenol
Concen: 9.813 ng
RT: 16.388 min Scan# 2229
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:330 Resp: 16899
Ion Ratio Lower Upper
330 100
332 95.7 77.3 115.9
141 34.0 27.9 41.9

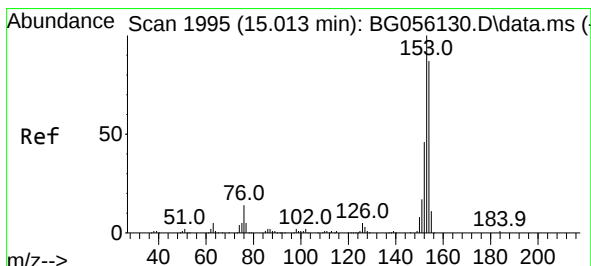
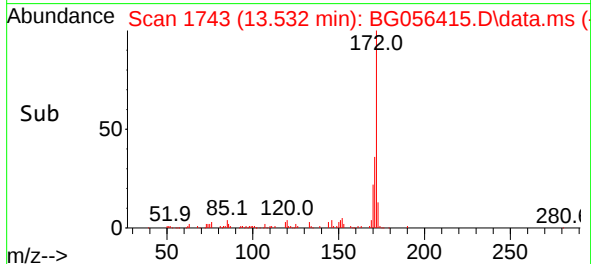
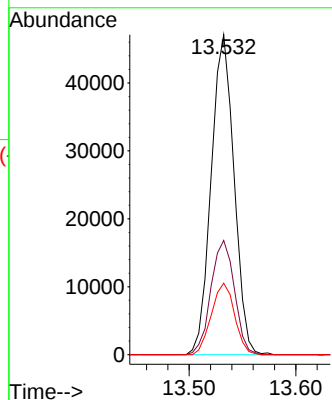
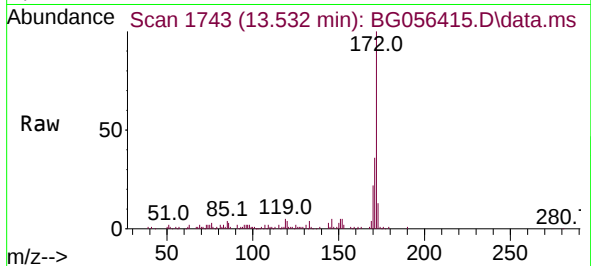




#45
2-Fluorobiphenyl
Concen: 7.108 ng
RT: 13.532 min Scan# 1
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

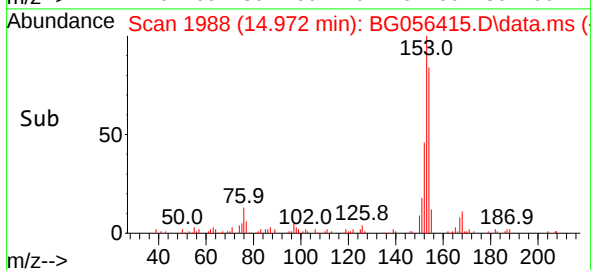
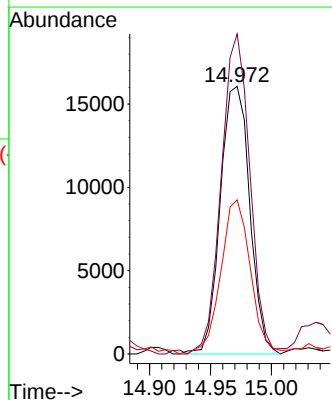
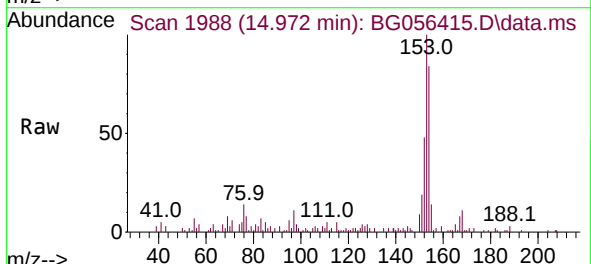
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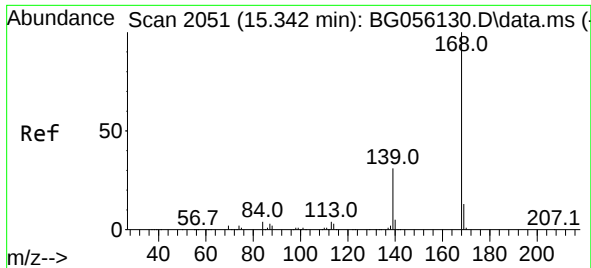
Tgt Ion:172 Resp: 69989
Ion Ratio Lower Upper
172 100
171 35.7 29.6 44.4
170 22.3 19.4 29.2



#52
Acenaphthene
Concen: 3.314 ng
RT: 14.972 min Scan# 1988
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:154 Resp: 26959
Ion Ratio Lower Upper
154 100
153 119.6 92.0 138.0
152 57.6 42.5 63.7

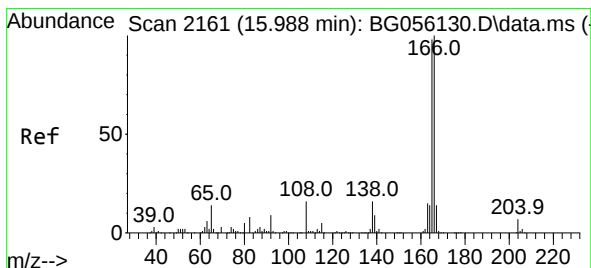
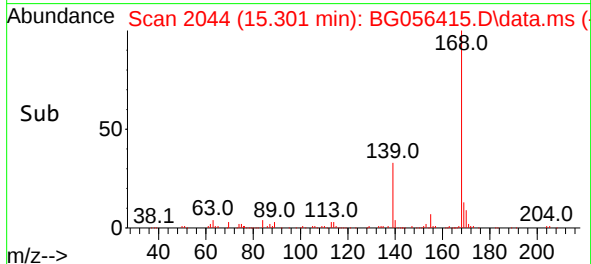
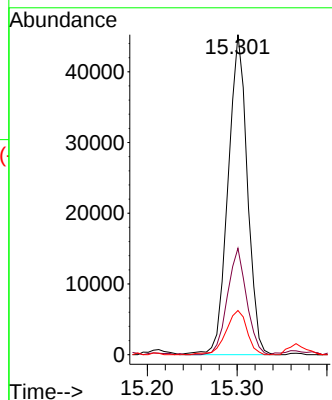
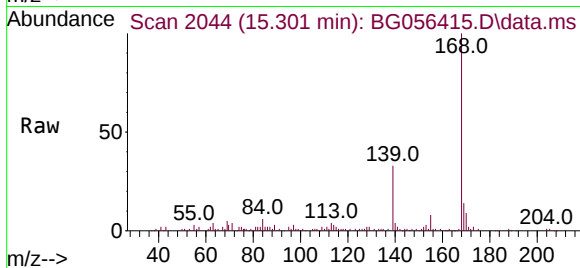




#55
Dibenzenofuran
Concen: 5.009 ng
RT: 15.301 min Scan# 2051
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

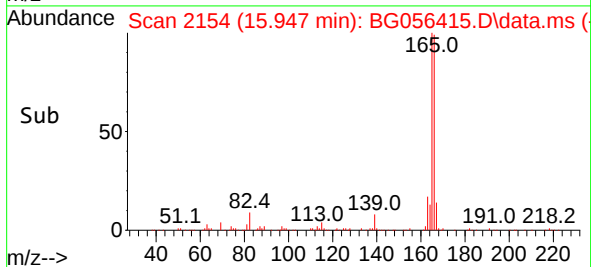
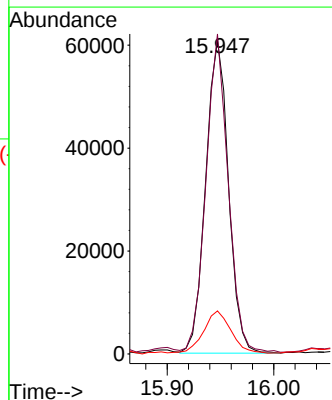
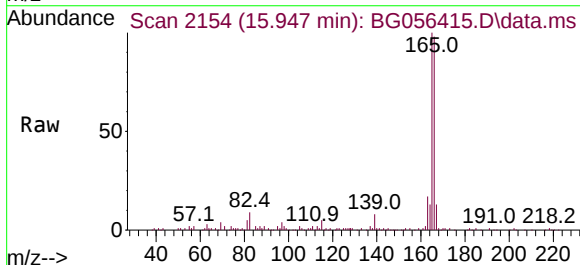
Instrument :
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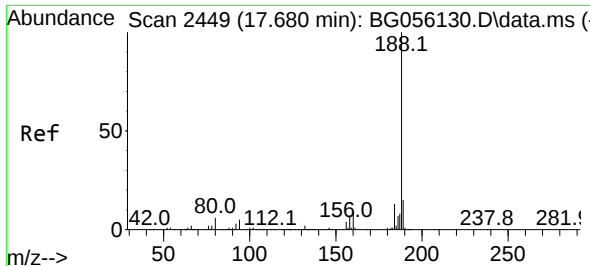
Tgt Ion:168 Resp: 67424
Ion Ratio Lower Upper
168 100
139 33.2 24.7 37.1
169 13.8 10.3 15.5



#58
Fluorene
Concen: 8.347 ng
RT: 15.947 min Scan# 2154
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:166 Resp: 90382
Ion Ratio Lower Upper
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165 102.1 78.6 118.0
167 13.7 11.1 16.7

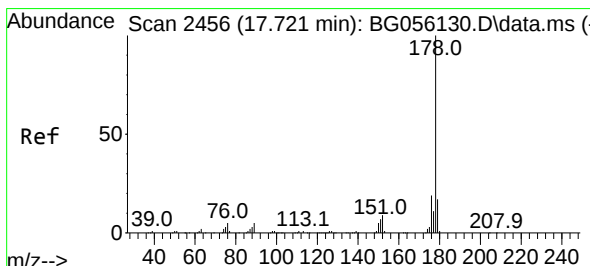
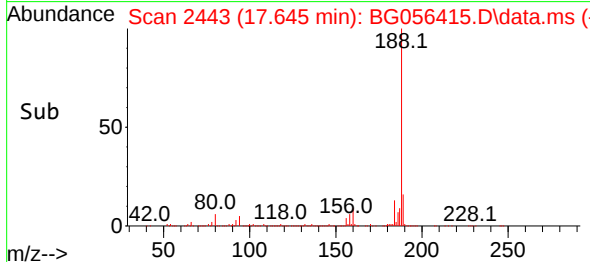
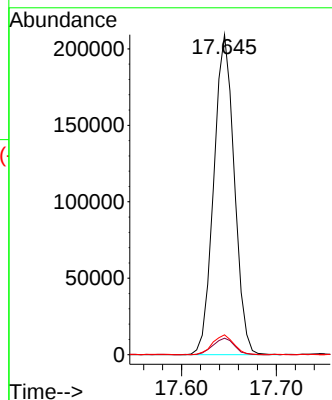
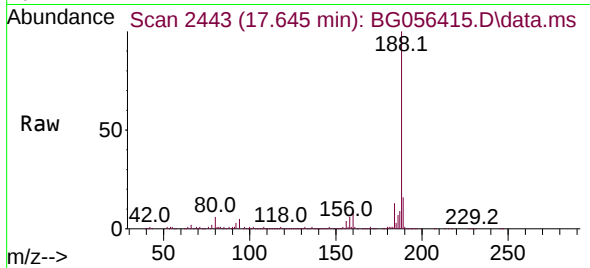




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.645 min Scan# 2443
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

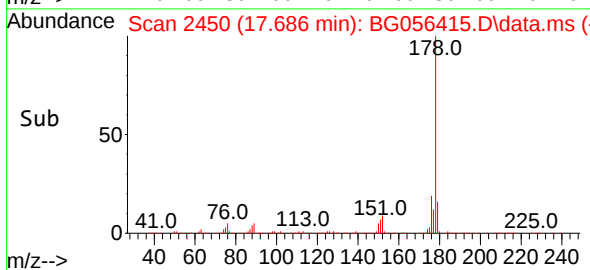
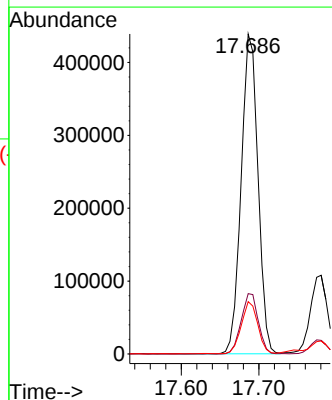
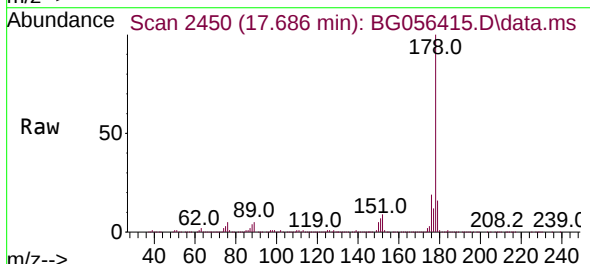
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL

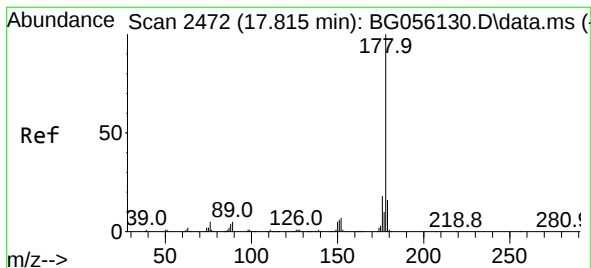
Tgt Ion:188 Resp: 314806
Ion Ratio Lower Upper
188 100
94 5.2 4.2 6.2
80 6.2 5.0 7.4



#71
Phenanthrene
Concen: 40.484 ng
RT: 17.686 min Scan# 2450
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:178 Resp: 660458
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 16.4 13.6 20.4





#72

Anthracene

Concen: 9.692 ng

RT: 17.780 min Scan# 2466

Delta R.T. -0.008 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL

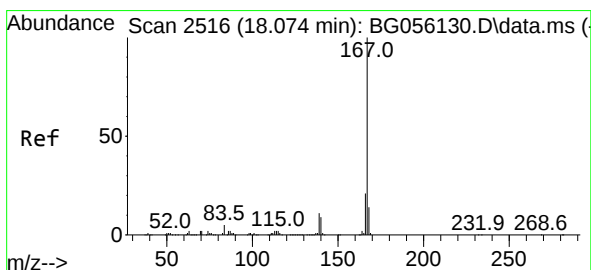
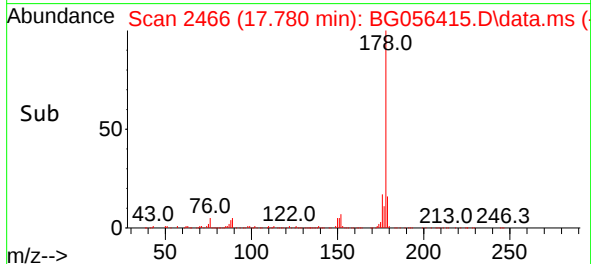
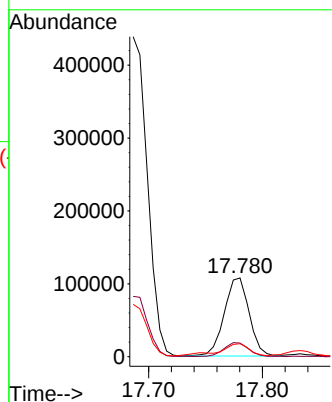
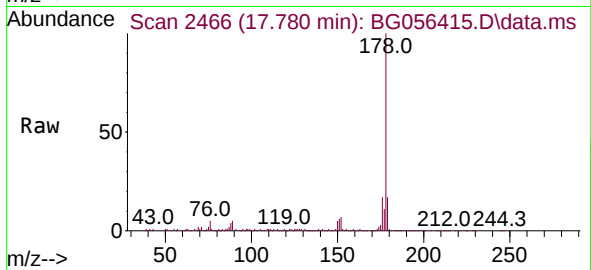
Tgt Ion:178 Resp: 163106

Ion Ratio Lower Upper

178 100

176 17.3 14.6 22.0

179 16.5 12.7 19.1



#73

Carbazole

Concen: 3.039 ng

RT: 18.045 min Scan# 2511

Delta R.T. -0.008 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

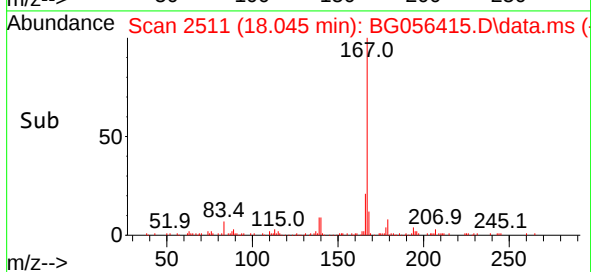
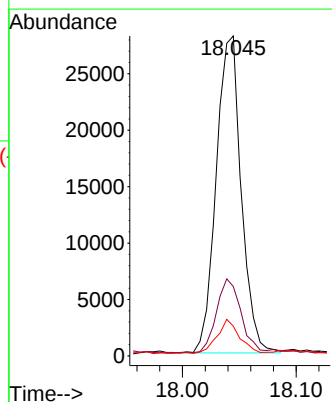
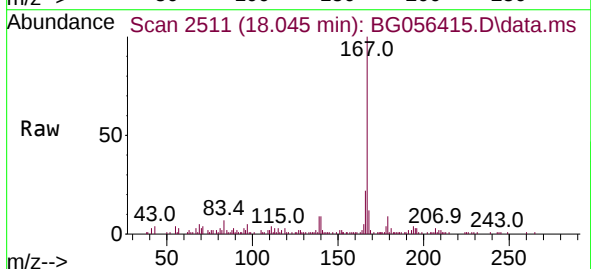
Tgt Ion:167 Resp: 42991

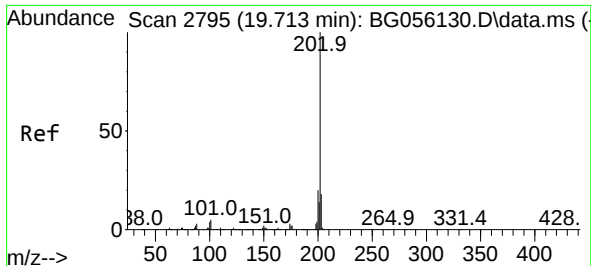
Ion Ratio Lower Upper

167 100

166 21.7 16.8 25.2

139 9.3 8.9 13.3

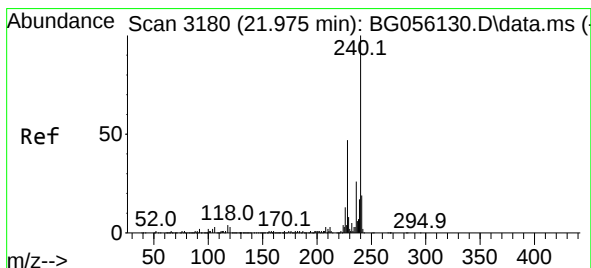
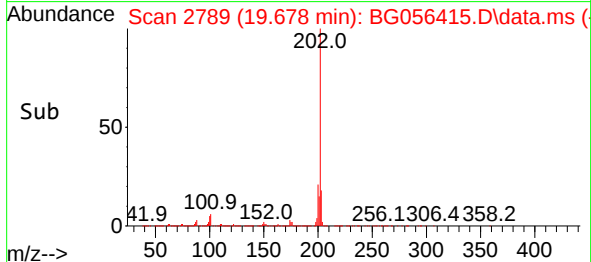
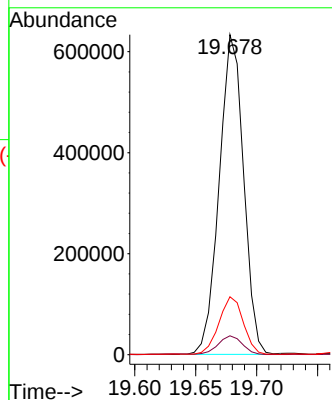
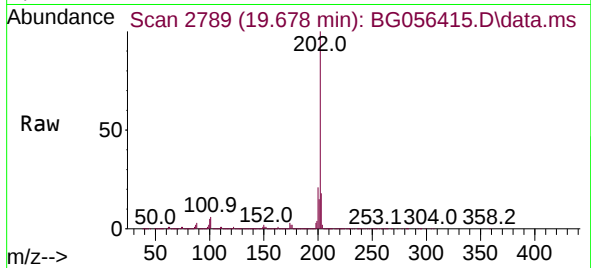




#75
Fluoranthene
Concen: 41.332 ng
RT: 19.678 min Scan# 21
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

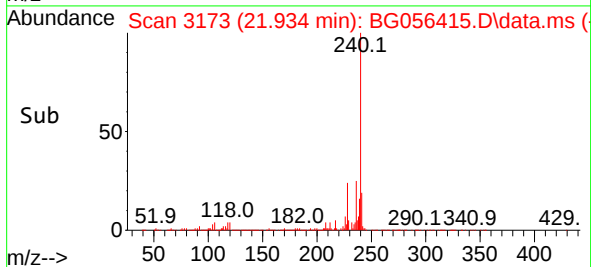
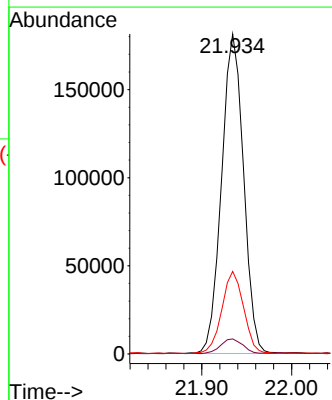
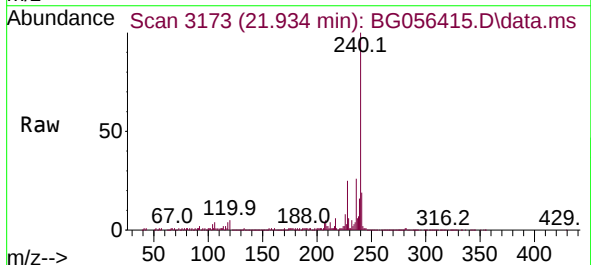
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL

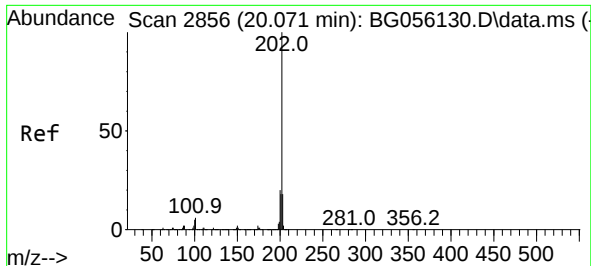
Tgt Ion:202 Resp: 879572
Ion Ratio Lower Upper
202 100
101 5.9 0.0 25.0
203 18.1 0.0 38.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.934 min Scan# 3173
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:240 Resp: 307686
Ion Ratio Lower Upper
240 100
120 4.7 2.6 4.0#
236 25.8 20.8 31.2

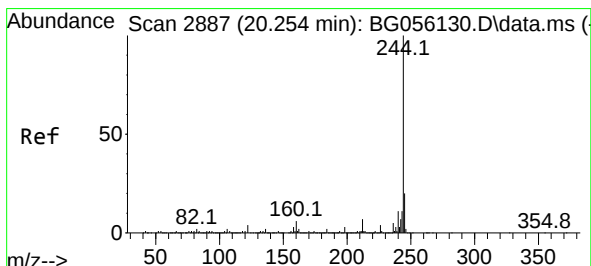
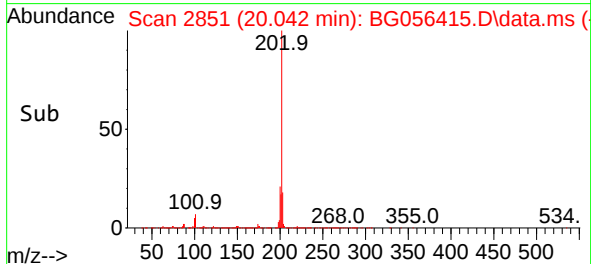
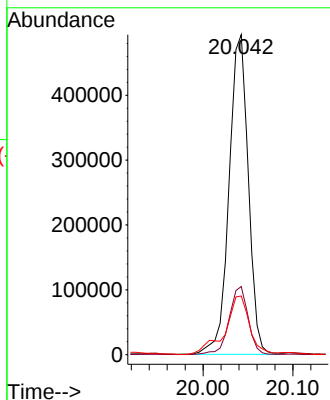
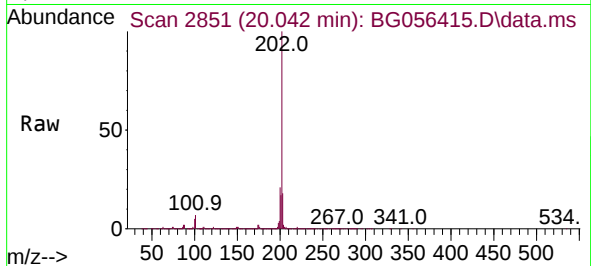




#78
 Pyrene
 Concen: 33.889 ng
 RT: 20.042 min Scan# 2856
 Delta R.T. -0.002 min
 Lab File: BG056415.D
 Acq: 24 Jan 2023 23:16

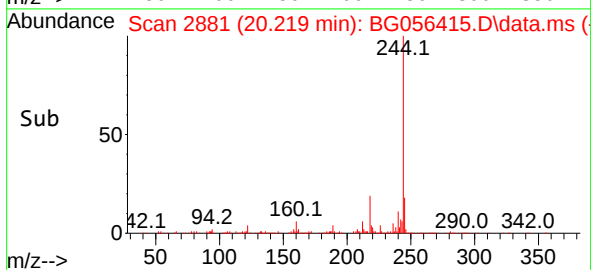
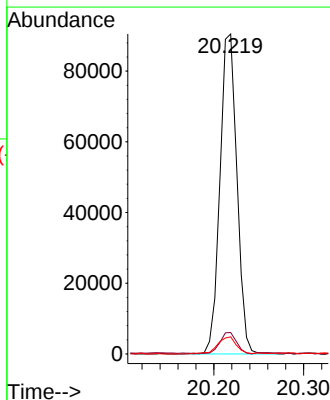
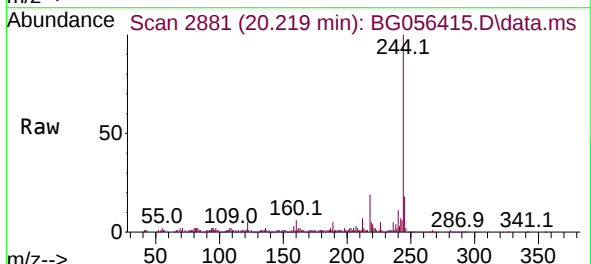
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-012023DL

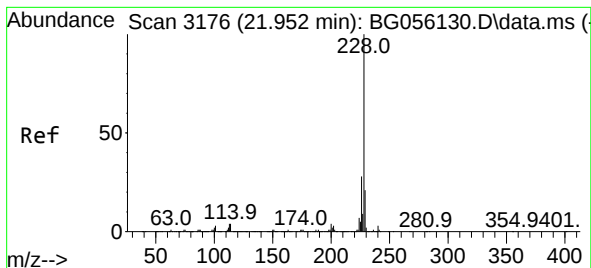
Tgt Ion:202 Resp: 734963
 Ion Ratio Lower Upper
 202 100
 200 21.3 16.4 24.6
 203 18.4 14.3 21.5



#79
 Terphenyl-d14
 Concen: 6.917 ng
 RT: 20.219 min Scan# 2881
 Delta R.T. -0.008 min
 Lab File: BG056415.D
 Acq: 24 Jan 2023 23:16

Tgt Ion:244 Resp: 118821
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.7 8.5
 122 5.4 3.5 5.3#





#81

Benzo(a)anthracene

Concen: 17.995 ng

RT: 21.911 min Scan# 31

Delta R.T. -0.013 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL

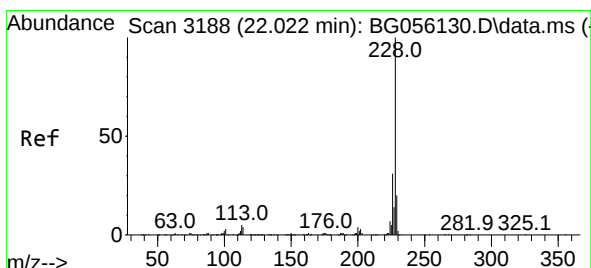
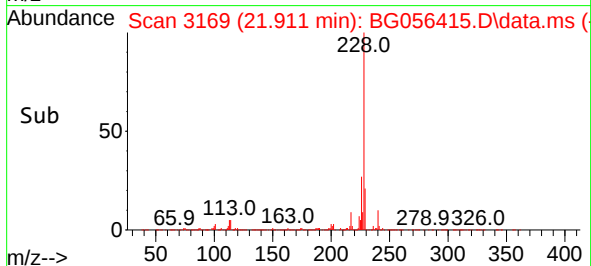
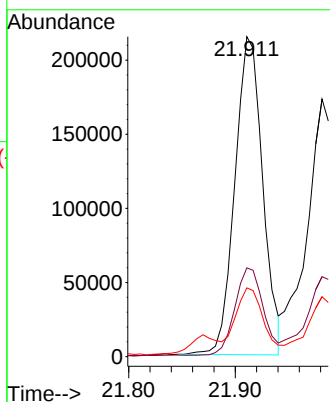
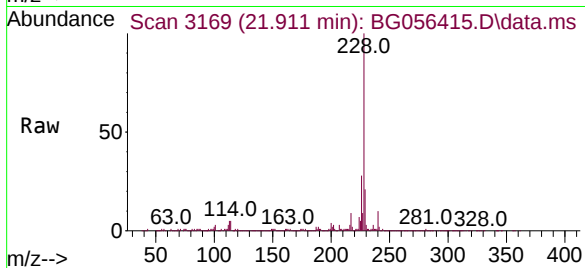
Tgt Ion:228 Resp: 388894

Ion Ratio Lower Upper

228 100

226 27.7 22.6 34.0

229 21.5 16.9 25.3



#83

Chrysene

Concen: 15.946 ng

RT: 21.981 min Scan# 3181

Delta R.T. -0.013 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

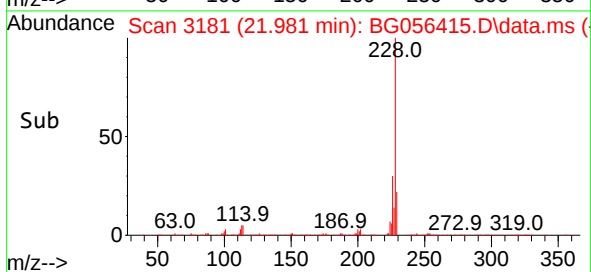
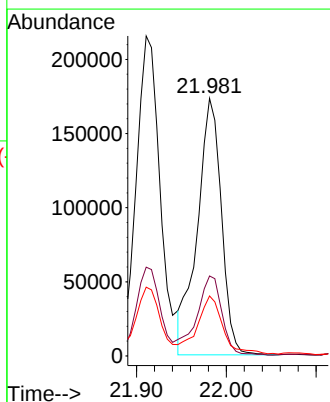
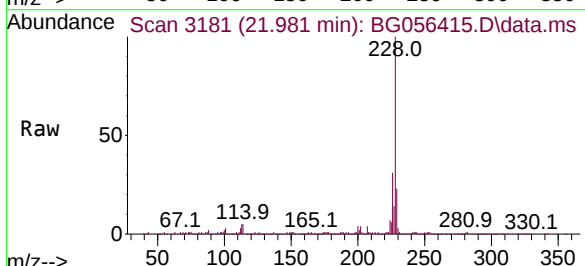
Tgt Ion:228 Resp: 322801

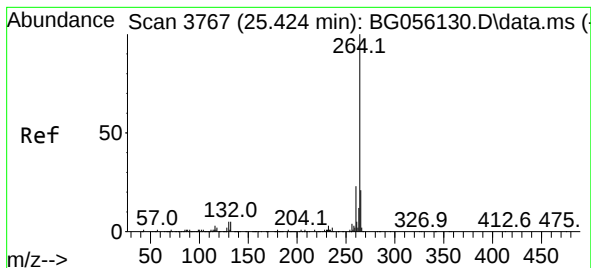
Ion Ratio Lower Upper

228 100

226 31.0 24.6 36.8

229 23.3 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.366 min Scan# 31

Delta R.T. -0.008 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL

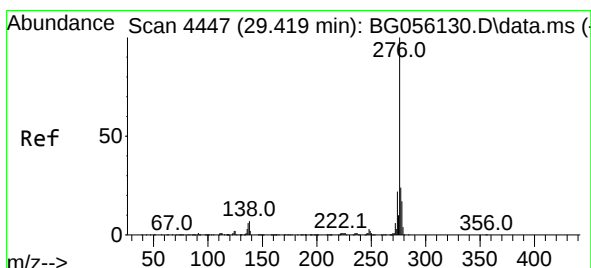
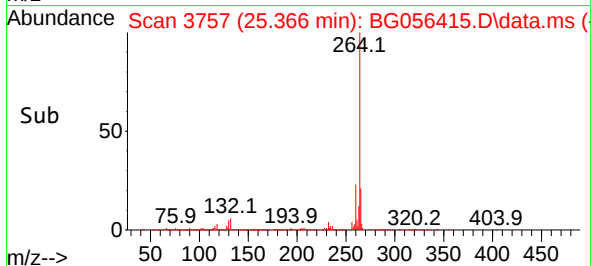
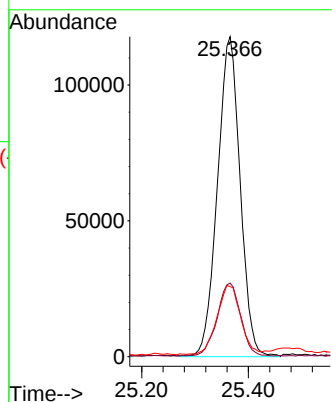
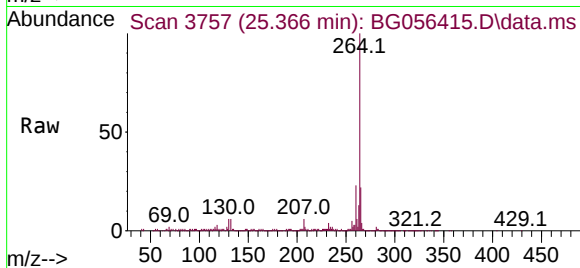
Tgt Ion:264 Resp: 347989

Ion Ratio Lower Upper

264 100

260 23.0 18.6 28.0

265 21.9 16.7 25.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.112 ng

RT: 29.302 min Scan# 4427

Delta R.T. -0.031 min

Lab File: BG056415.D

Acq: 24 Jan 2023 23:16

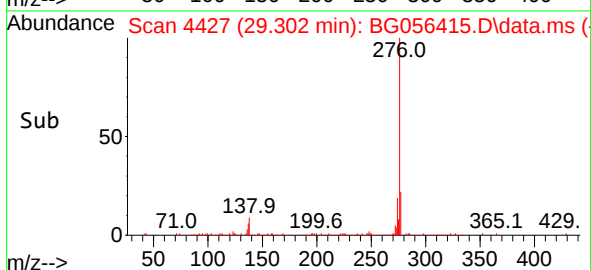
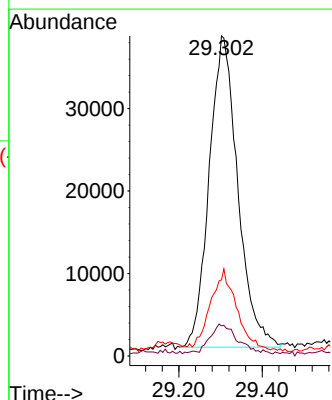
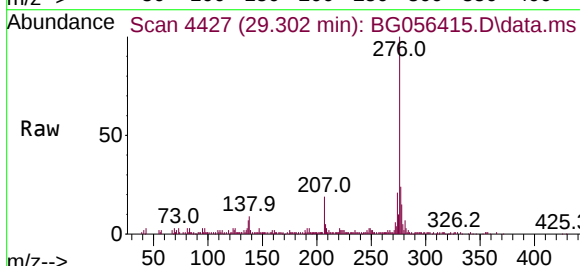
Tgt Ion:276 Resp: 179992

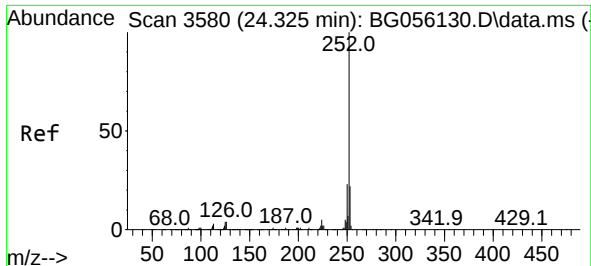
Ion Ratio Lower Upper

276 100

138 8.1 5.0 7.4#

277 23.3 20.5 30.7

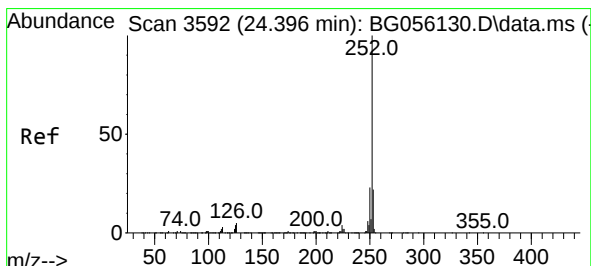
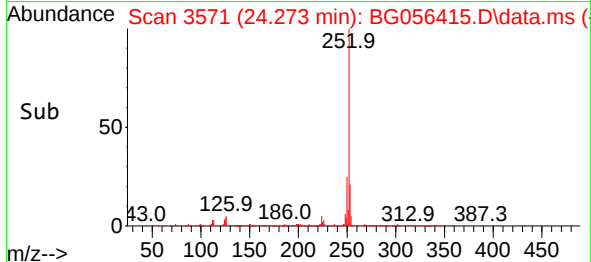
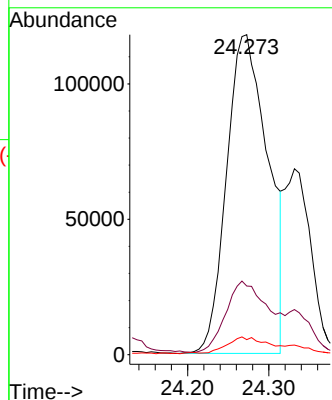
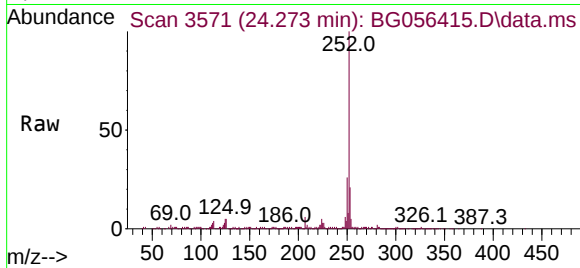




#88
Benzo(b)fluoranthene
Concen: 18.860 ng
RT: 24.273 min Scan# 3571
Delta R.T. -0.008 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

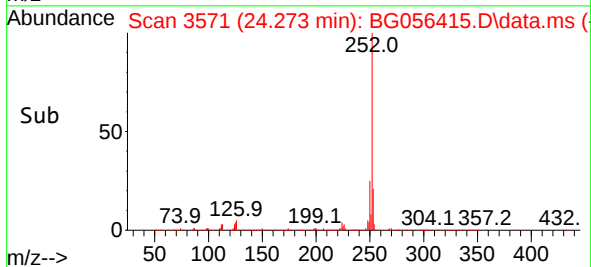
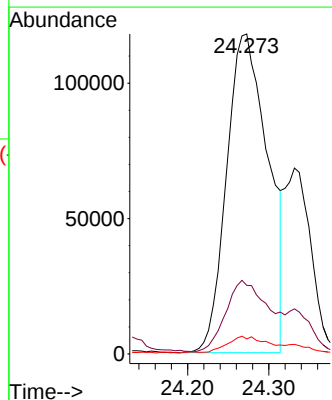
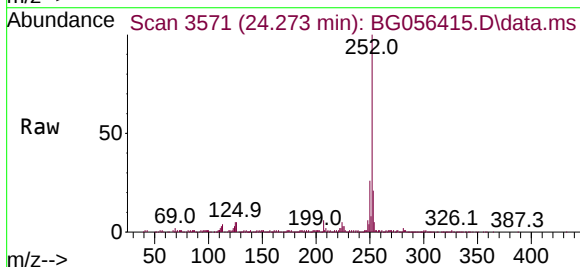
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL

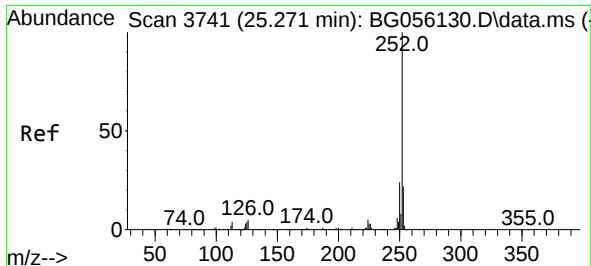
Tgt Ion:252 Resp: 416999
Ion Ratio Lower Upper
252 100
253 21.4 17.4 26.2
125 4.7 3.0 4.4#



#89
Benzo(k)fluoranthene
Concen: 18.940 ng
RT: 24.273 min Scan# 3571
Delta R.T. -0.078 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:252 Resp: 416999
Ion Ratio Lower Upper
252 100
253 21.4 17.5 26.3
125 4.7 3.4 5.0

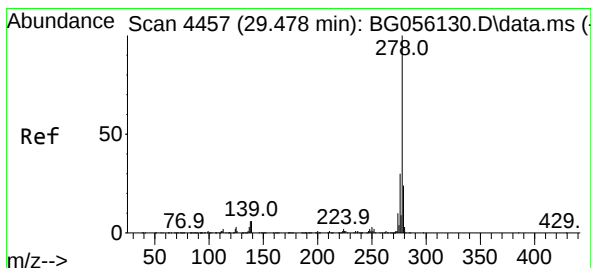
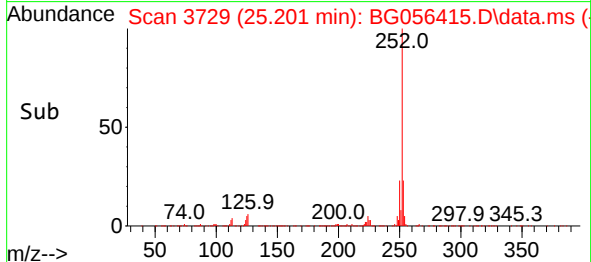
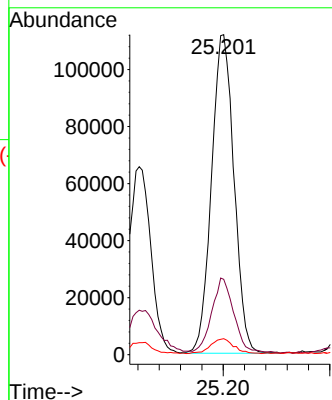
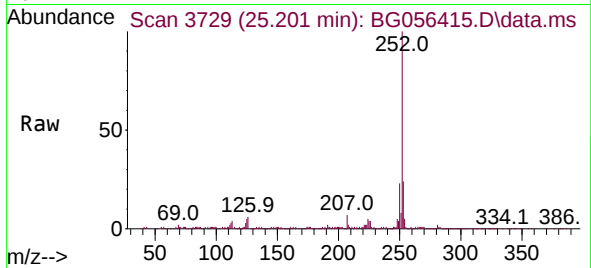




#90
Benzo(a)pyrene
Concen: 15.159 ng
RT: 25.201 min Scan# 31
Delta R.T. -0.013 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

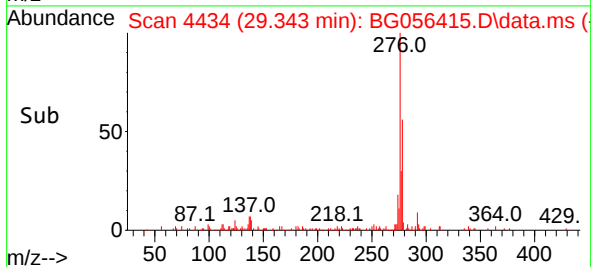
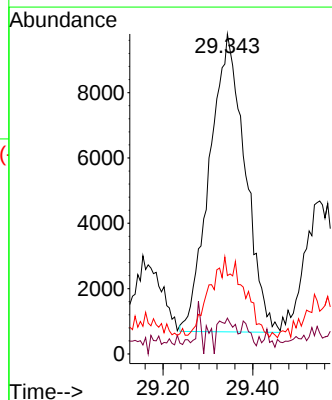
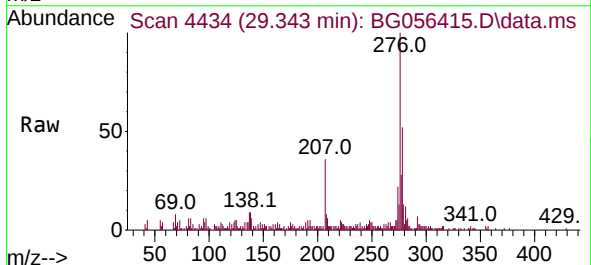
Instrument :
BNA_G
ClientSampleId :
OR-02-012023DL

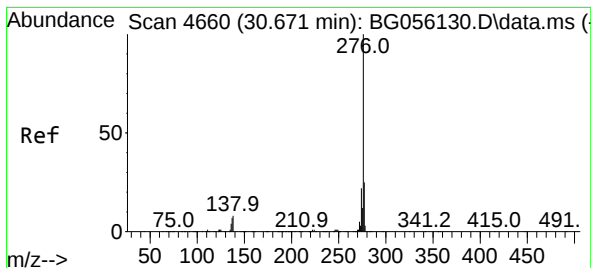
Tgt Ion:252 Resp: 326900
Ion Ratio Lower Upper
252 100
253 23.6 17.4 26.2
125 5.0 3.2 4.8#



#91
Dibenzo(a,h)anthracene
Concen: 2.354 ng
RT: 29.343 min Scan# 4434
Delta R.T. -0.049 min
Lab File: BG056415.D
Acq: 24 Jan 2023 23:16

Tgt Ion:278 Resp: 49942
Ion Ratio Lower Upper
278 100
139 11.2 4.8 7.2#
279 24.5 19.0 28.4





#92

Benzo(g,h,i)perylene

Concen: 8.196 ng

RT: 30.554 min Scan# 4

Delta R.T. -0.019 min

Lab File: BG056415.D

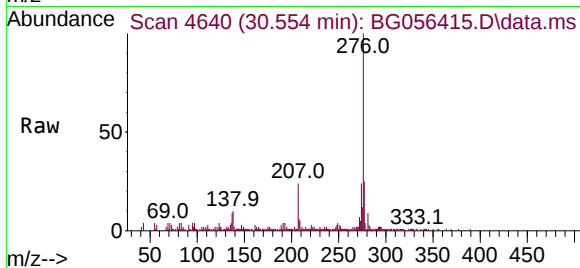
Acq: 24 Jan 2023 23:16

Instrument :

BNA_G

ClientSampleId :

OR-02-012023DL



Tgt Ion:276 Resp: 168645

Ion Ratio Lower Upper

276 100

277 24.5 19.7 29.5

138 10.3 6.7 10.1#

