

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041823\
 Data File : BM039501.D
 Acq On : 19 Apr 2023 18:41
 Operator : CG/JU
 Sample : 02296-15DL 30X
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DCBM0DL

Quant Time: Apr 19 22:55:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-BM041823.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Apr 19 08:18:41 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	179762	20.000	ng/ul	0.00
20) Naphthalene-d8	10.648	136	777851	20.000	ng/ul	0.00
38) Acenaphthene-d10	14.489	164	490017	20.000	ng/ul	0.00
64) Phenanthrene-d10	17.242	188	919277	20.000	ng/ul	0.00
79) Chrysene-d12	21.430	240	769165	20.000	ng/ul	0.00
88) Perylene-d12	23.794	264	840352	20.000	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.219	96	355	0.076	ng/uL	0.00
4) Pyridine-d5	3.625	84	788	0.060	ng/ul	-0.01
7) Phenol-d5	7.043	99	2035	0.124	ng/ul	0.03
9) Bis-(2-Chloroethyl)eth...	7.172	67	8673	0.798	ng/ul	0.00
11) 2-Chlorophenol-d4	7.378	132	8298	0.643	ng/ul	0.01
15) 4-Methylphenol-d8	8.584	113	4846	0.366	ng/ul	0.02
21) Nitrobenzene-d5	9.013	128	15440	2.467	ng/ul	0.01
24) 2-Nitrophenol-d4	9.731	143	5498	0.782	ng/ul	0.00
28) 2,4-Dichlorophenol-d3	10.301	165	9506	0.786	ng/ul	0.03
31) 4-Chloroaniline-d4	10.789	131	39844	2.206	ng/ul	0.00
46) Dimethylphthalate-d6	13.901	166	51174	1.295	ng/ul	0.00
49) Acenaphthylene-d8	14.177	160	46098	1.038	ng/ul	0.00
54) 4-Nitrophenol-d4	14.730	143	402	0.067	ng/ul	0.00
60) Fluorene-d10	15.483	176	35514	1.097	ng/ul	0.00
65) 4,6-Dinitro-2-methylph...	15.636	200	2327	0.381	ng/ul	0.02
73) Anthracene-d10	17.342	188	52863	1.196	ng/ul	0.00
81) Pyrene-d10	19.636	212	58965	1.154	ng/ul	0.00
92) Benzo(a)pyrene-d12	23.641	264	51173	1.128	ng/ul	0.00
Target Compounds						
					Qvalue	
6) Benzaldehyde	6.966	77	12925	1.839	ng/ul#	1
10) Bis(2-Chloroethyl)ether	7.254	93	1353672	94.781	ng/ul#	23
19) Hexachloroethane	8.937	117	56147	9.519	ng/ul#	9
32) 4-Chloroaniline	10.725	127	6216003	349.334	ng/ul#	12
36) 2-Methylnaphthalene	12.325	142	17333055	600.770	ng/ul	100
37) 1-Methylnaphthalene	12.536	142	8789191	303.146	ng/ul	98
43) 1,1'-Biphenyl	13.319	154	5488790	144.940	ng/ul	99
50) Acenaphthylene	14.207	152	271210	5.711	ng/ul#	80
52) Acenaphthene	14.566	153	13661730	417.827	ng/ul	99
56) Dibenzofuran	14.901	168	13506009	303.900	ng/ul	99
57) 2,4-Dinitrotoluene	14.883	165	15446	1.405	ng/ul#	1
61) Fluorene	15.548	166	10195993	277.343	ng/ul	100
63) 4-Nitroaniline	15.548	138	116812	20.537	ng/ul#	17
67) N-Nitrosodiphenylamine	15.748	169	43198	1.577	ng/ul#	1
72) Phenanthrene	17.377	178	3567578	69.903	ng/ul	98
74) Anthracene	17.377	178	3567578	69.680	ng/ul	99
77) Carbazole	17.648	167	1580983	34.750	ng/ul	99
80) Fluoranthene	19.306	202	10131518	169.119	ng/ul	98
82) Pyrene	19.671	202	6938431	111.878	ng/ul	96
85) Benzo(a)anthracene	21.412	228	1126313	20.246	ng/ul	99
87) Chrysene	21.465	228	926665	17.462	ng/ul	97
90) Benzo(b)fluoranthene	23.077	252	440034	7.442	ng/ul	97
91) Benzo(k)fluoranthene	23.077	252	440034	7.578	ng/ul	97
93) Benzo(a)pyrene	23.689	252	229140	4.597	ng/ul	96

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QLast Update : Wed Apr 19 08:18:41 2023
Response via : Initial Calibration

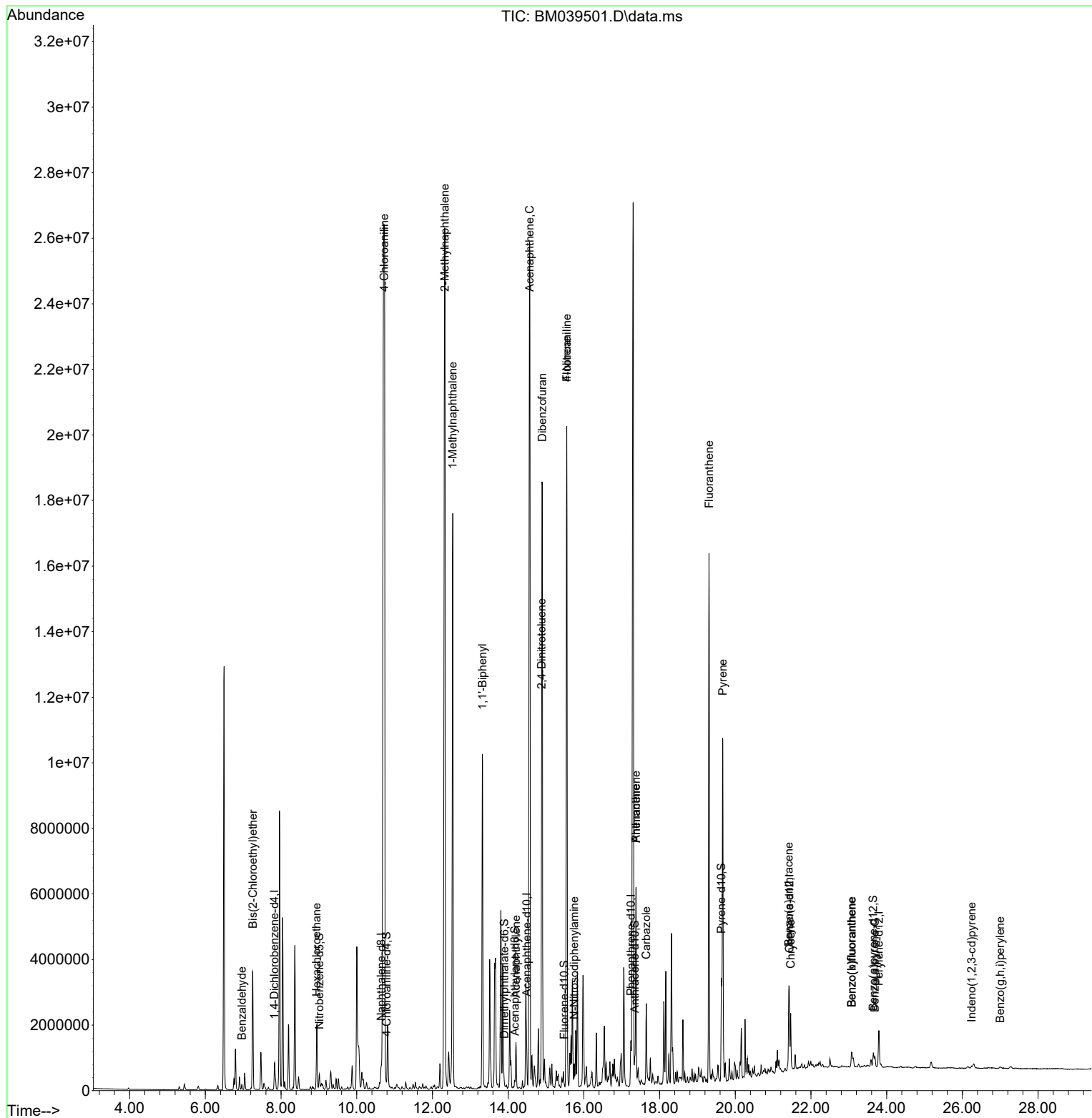
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Indeno(1,2,3-cd)pyrene	26.241	276	63607	1.160	ng/ul	96
96) Benzo(g,h,i)perylene	27.000	276	51277	1.174	ng/ul	95

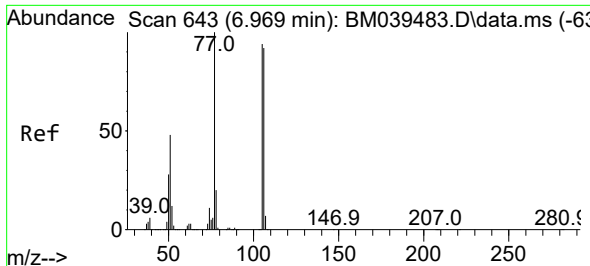
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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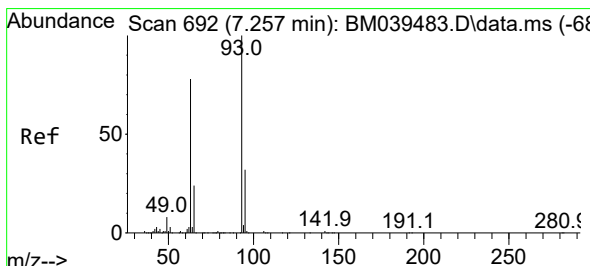
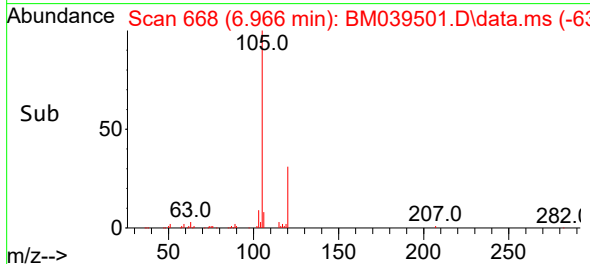
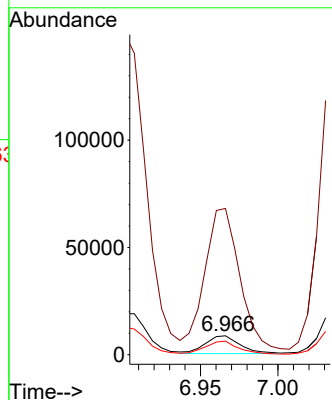
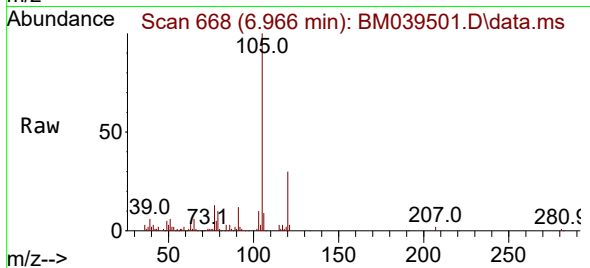




#6
Benzaldehyde
Concen: 1.839 ng/ul
RT: 6.966 min Scan# 60
Delta R.T. -0.003 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

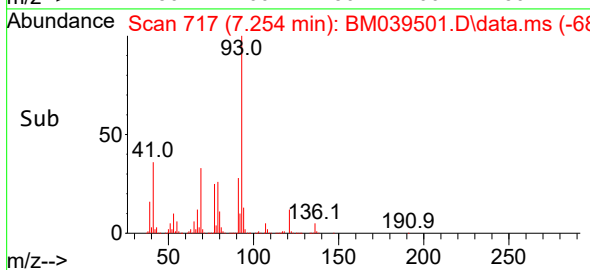
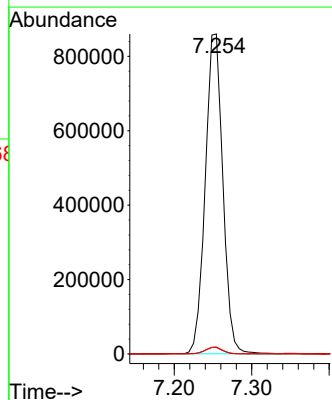
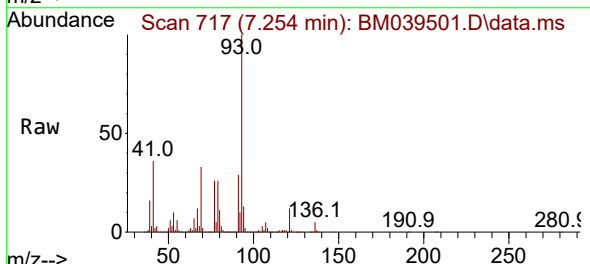
Instrument :
BNA_M
ClientSampleId :
DCBM0DL

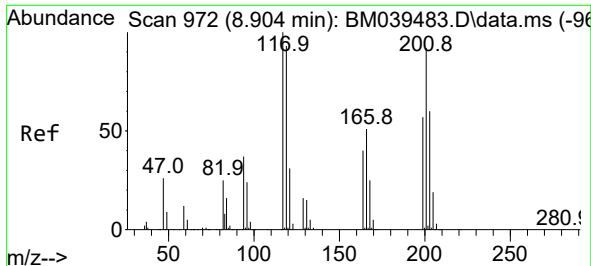
Tgt Ion: 77 Resp: 12925
Ion Ratio Lower Upper
77 100
105 774.6 76.3 114.5#
106 71.8 75.4 113.0#



#10
Bis(2-Chloroethyl)ether
Concen: 94.781 ng/ul
RT: 7.254 min Scan# 717
Delta R.T. -0.003 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

Tgt Ion: 93 Resp: 1353672
Ion Ratio Lower Upper
93 100
63 2.1 61.9 92.9#
95 2.2 25.8 38.8#

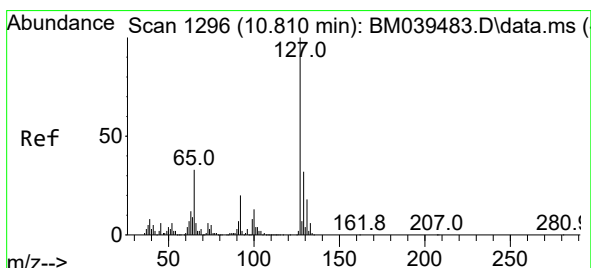
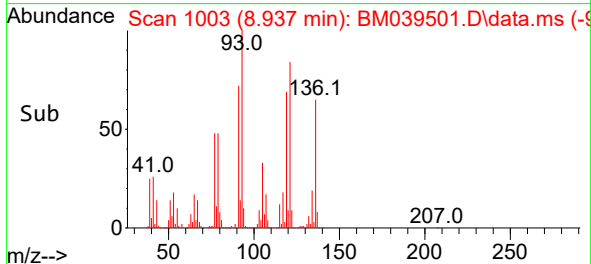
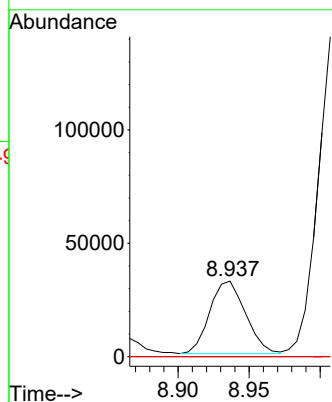
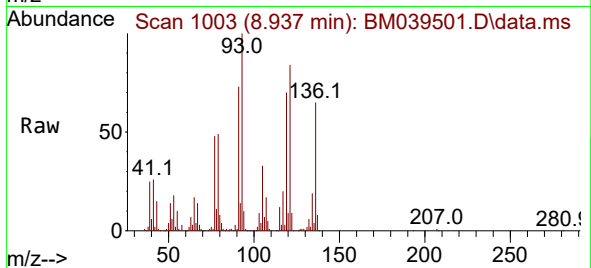




#19
Hexachloroethane
Concen: 9.519 ng/ul
RT: 8.937 min Scan# 117
Delta R.T. 0.032 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

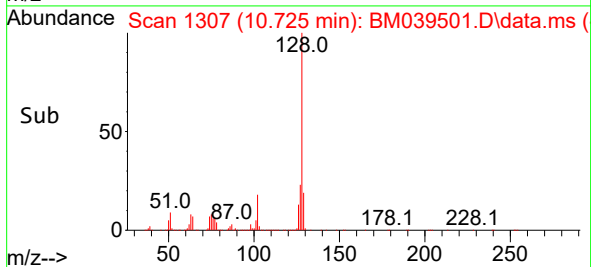
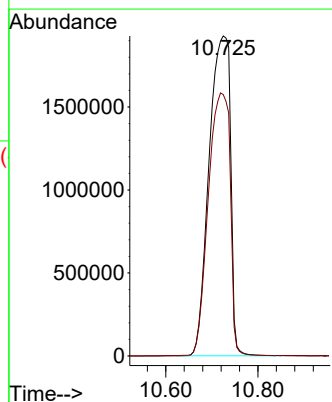
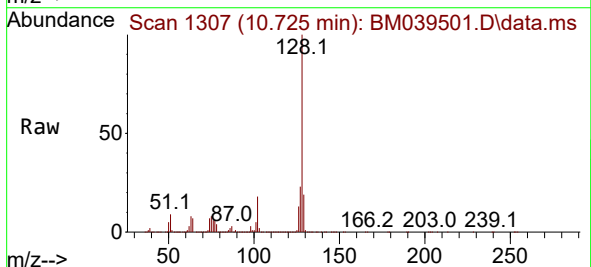
Instrument :
BNA_M
ClientSampleId :
DCBM0DL

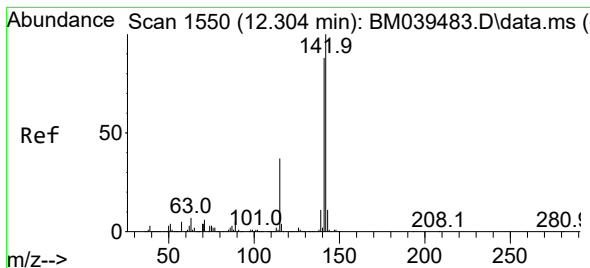
Tgt Ion:117 Resp: 56147
Ion Ratio Lower Upper
117 100
201 0.0 78.3 117.5#
199 0.0 47.4 71.0#



#32
4-Chloroaniline
Concen: 349.334 ng/ul
RT: 10.725 min Scan# 1307
Delta R.T. -0.085 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

Tgt Ion:127 Resp: 6216003
Ion Ratio Lower Upper
127 100
129 81.7 25.8 38.8#

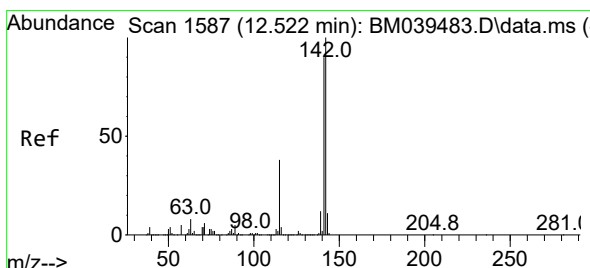
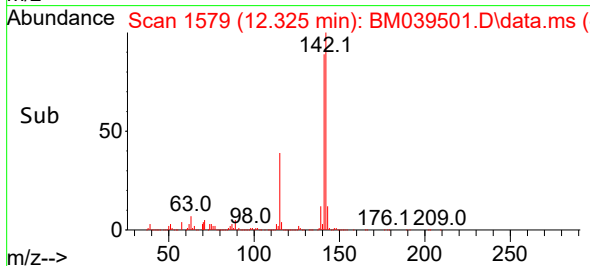
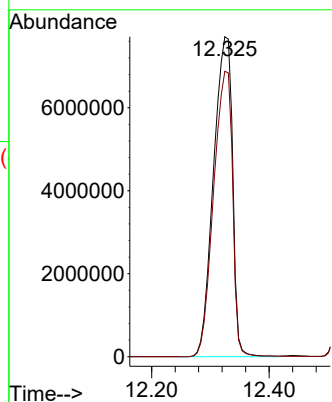
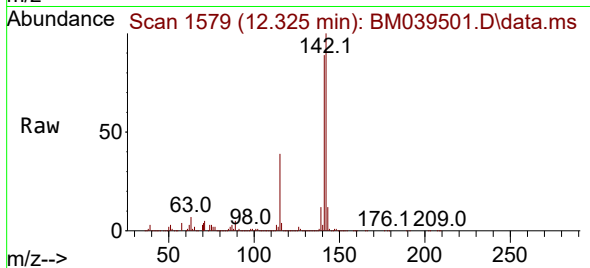




#36
2-Methylnaphthalene
Concen: 600.770 ng/ul
RT: 12.325 min Scan# 1615
Delta R.T. 0.021 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

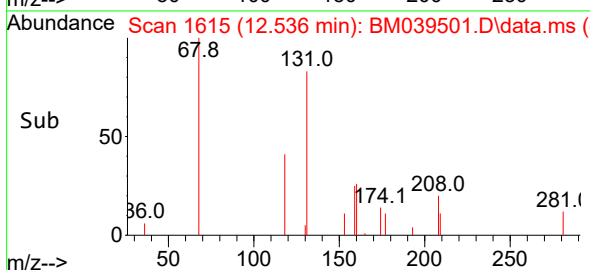
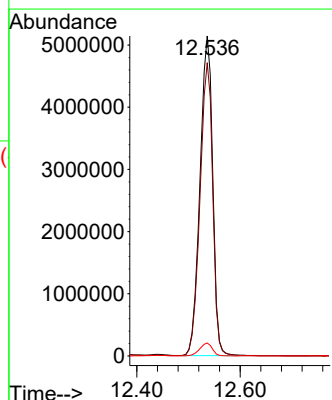
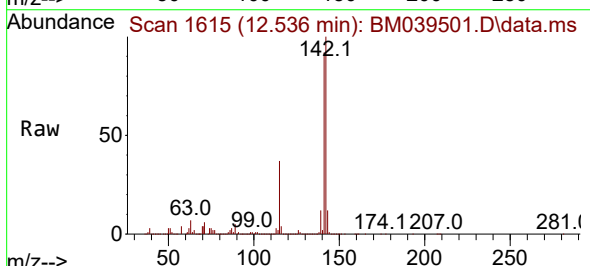
Instrument :
BNA_M
ClientSampleId :
DCBM0DL

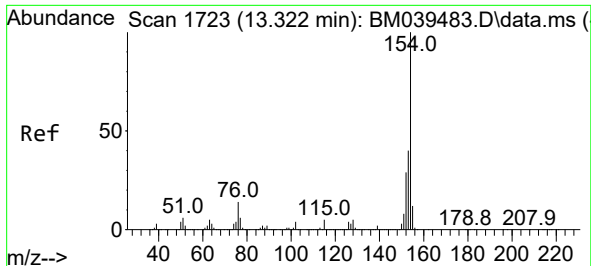
Tgt Ion:142 Resp:17333055
Ion Ratio Lower Upper
142 100
141 89.2 71.1 106.7



#37
1-Methylnaphthalene
Concen: 303.146 ng/ul
RT: 12.536 min Scan# 1615
Delta R.T. 0.015 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

Tgt Ion:142 Resp: 8789191
Ion Ratio Lower Upper
142 100
141 91.7 72.0 108.0
116 4.0 3.2 4.8

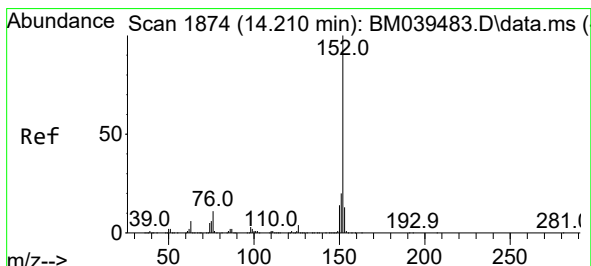
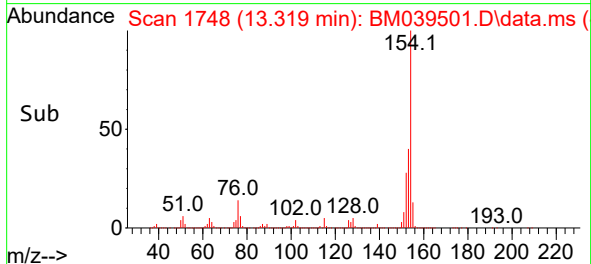
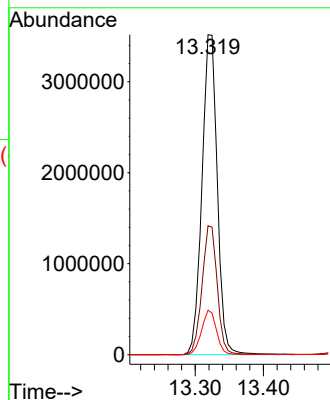
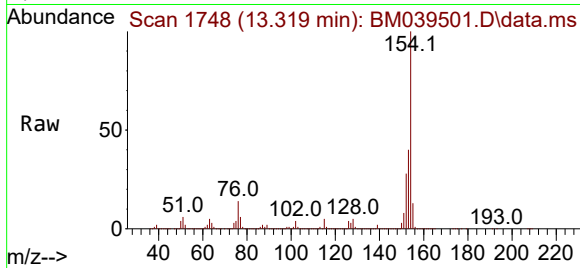




#43
1,1'-Biphenyl
Concen: 144.940 ng/ul
RT: 13.319 min Scan# 1
Delta R.T. -0.003 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

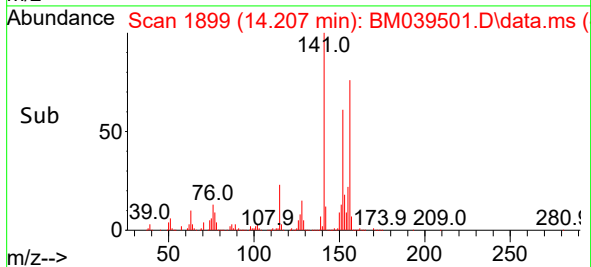
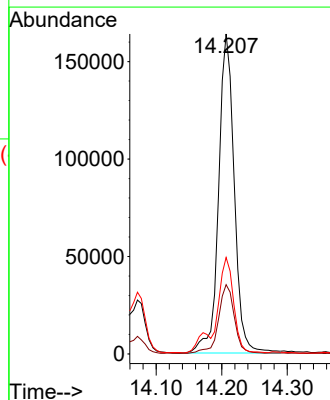
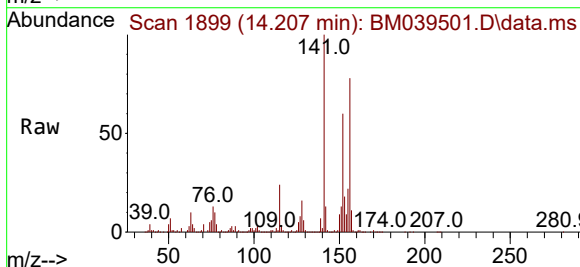
Instrument :
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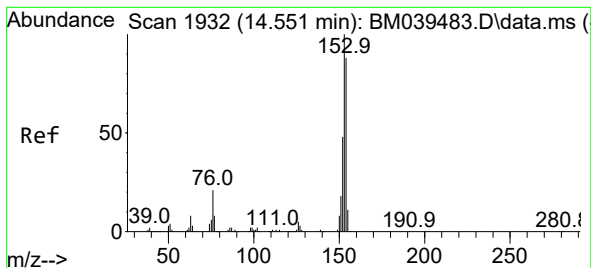
Tgt Ion:154 Resp: 5488790
Ion Ratio Lower Upper
154 100
153 40.3 31.9 47.9
76 13.9 11.5 17.3



#50
Acenaphthylene
Concen: 5.711 ng/ul
RT: 14.207 min Scan# 1899
Delta R.T. -0.003 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

Tgt Ion:152 Resp: 271210
Ion Ratio Lower Upper
152 100
151 21.6 15.8 23.8
153 30.2 10.4 15.6#





#52

Acenaphthene

Concen: 417.827 ng/ul

RT: 14.566 min Scan# 1932

Delta R.T. 0.015 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Instrument :

BNA_M

ClientSampleId :

DCBM0DL

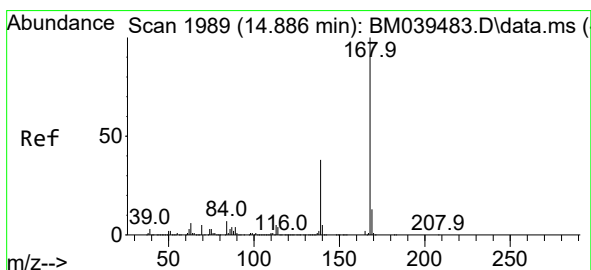
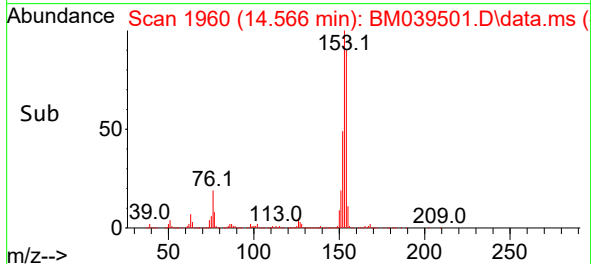
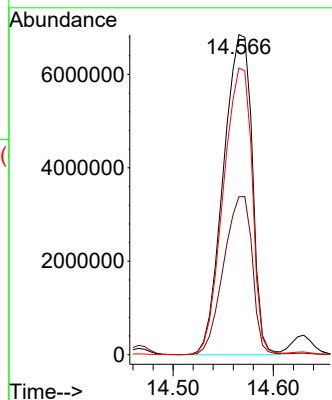
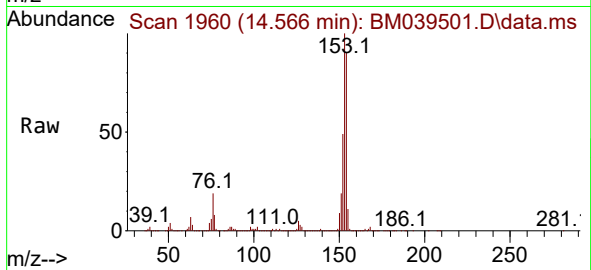
Tgt Ion:153 Resp:13661730

Ion Ratio Lower Upper

153 100

152 49.4 38.2 57.4

154 89.6 71.0 106.4



#56

Dibenzofuran

Concen: 303.900 ng/ul

RT: 14.901 min Scan# 2017

Delta R.T. 0.015 min

Lab File: BM039501.D

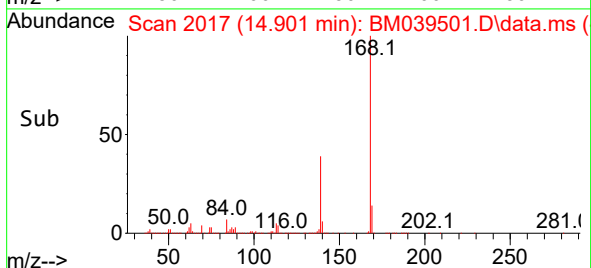
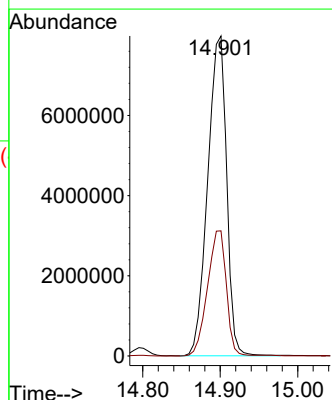
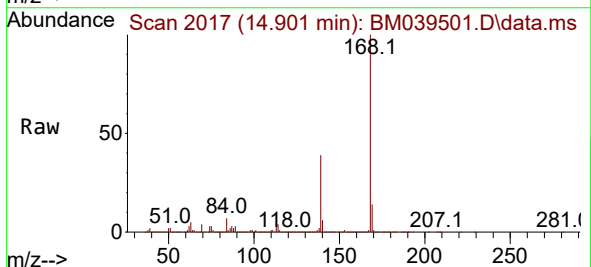
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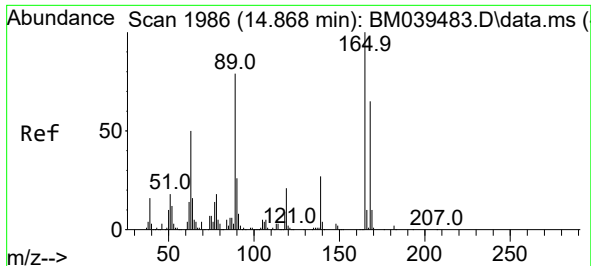
Tgt Ion:168 Resp:13506009

Ion Ratio Lower Upper

168 100

139 39.1 30.7 46.1





#57

2,4-Dinitrotoluene

Concen: 1.405 ng/ul

RT: 14.883 min Scan# 2014

Delta R.T. 0.015 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Instrument :

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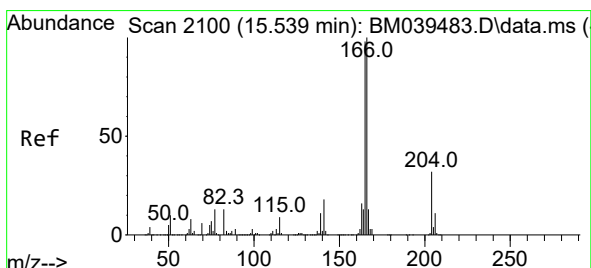
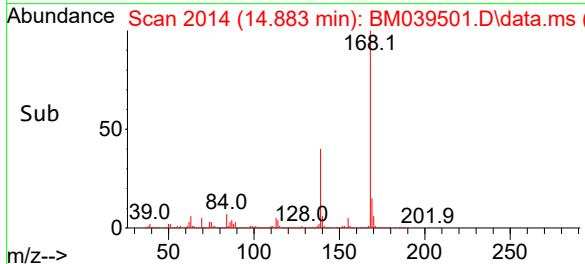
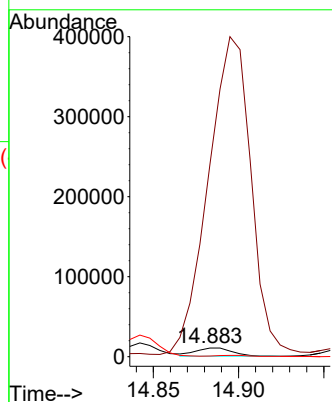
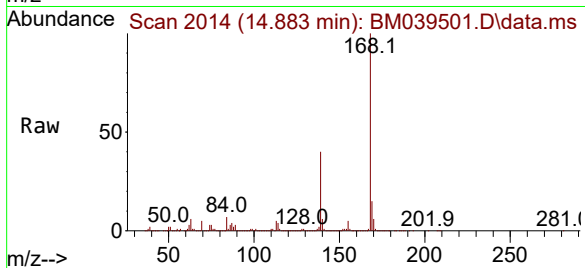
Tgt Ion:165 Resp: 15446

Ion Ratio Lower Upper

165 100

63 2222.0 39.4 59.2#

182 8.0 2.0 3.0#



#61

Fluorene

Concen: 277.343 ng/ul

RT: 15.548 min Scan# 2127

Delta R.T. 0.009 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

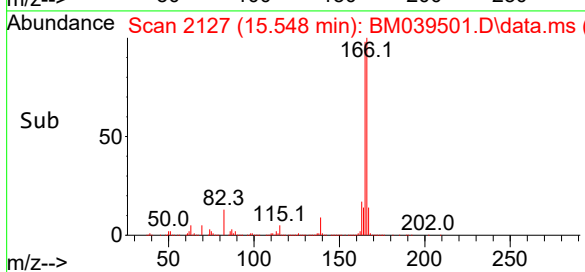
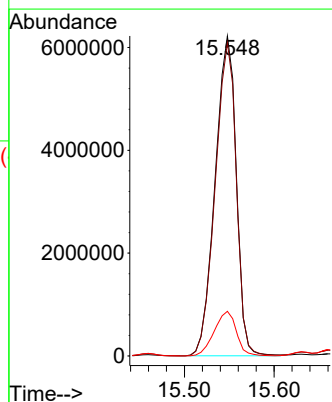
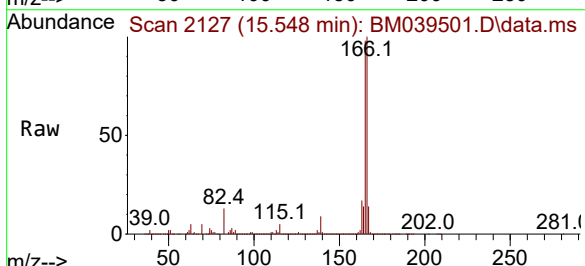
Tgt Ion:166 Resp:10195993

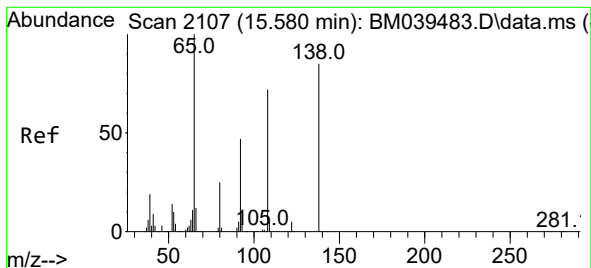
Ion Ratio Lower Upper

166 100

165 97.9 78.2 117.2

167 14.0 10.7 16.1

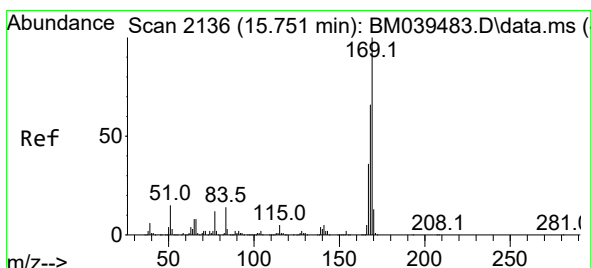
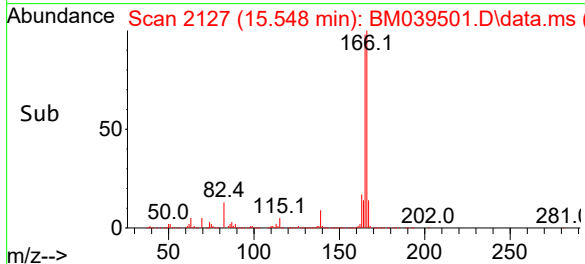
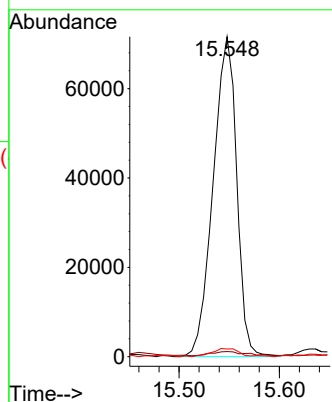
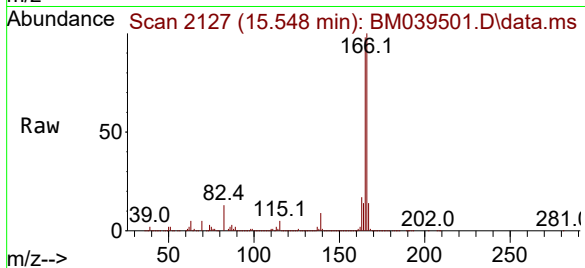




#63
4-Nitroaniline
Concen: 20.537 ng/ul
RT: 15.548 min Scan# 2107
Delta R.T. -0.032 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

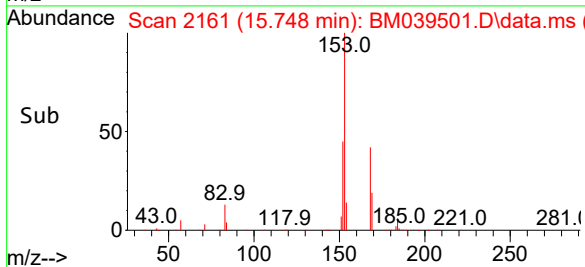
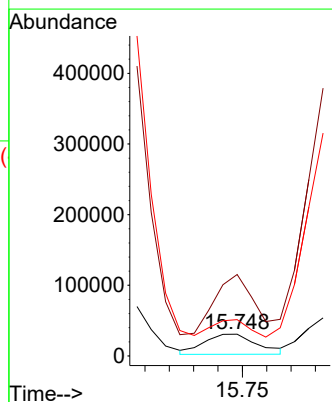
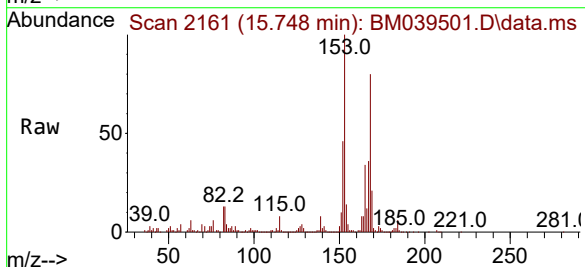
Instrument :
BNA_M
ClientSampleId :
DCBM0DL

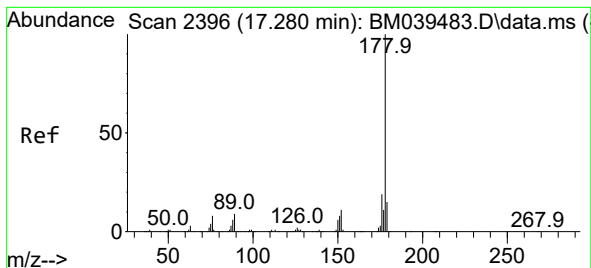
Tgt Ion:138 Resp: 116812
Ion Ratio Lower Upper
138 100
92 1.6 44.1 66.1#
108 2.4 64.6 97.0#



#67
N-Nitrosodiphenylamine
Concen: 1.577 ng/ul
RT: 15.748 min Scan# 2161
Delta R.T. -0.003 min
Lab File: BM039501.D
Acq: 19 Apr 2023 18:41

Tgt Ion:169 Resp: 43198
Ion Ratio Lower Upper
169 100
168 374.0 53.2 79.8#
167 166.9 28.9 43.3#





#72

Phenanthrene

Concen: 69.903 ng/ul

RT: 17.377 min Scan# 2438

Delta R.T. 0.097 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Instrument :

BNA_M

ClientSampleId :

DCBM0DL

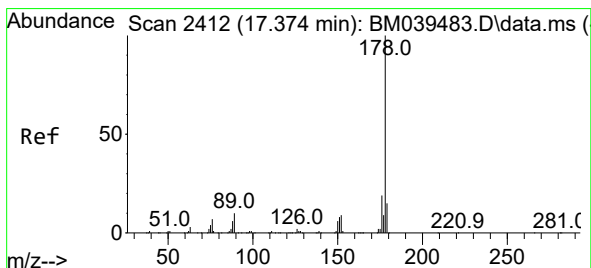
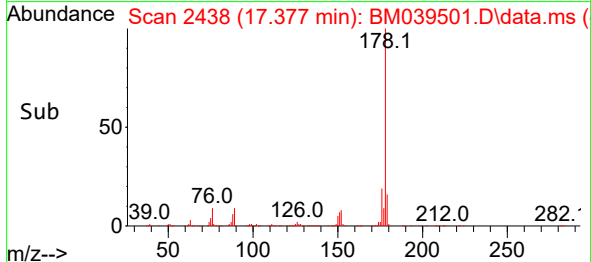
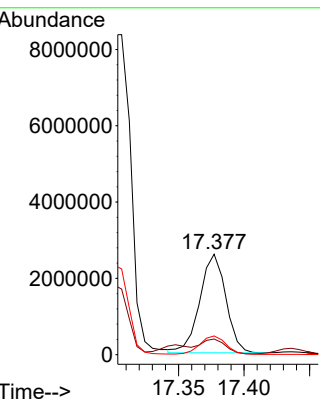
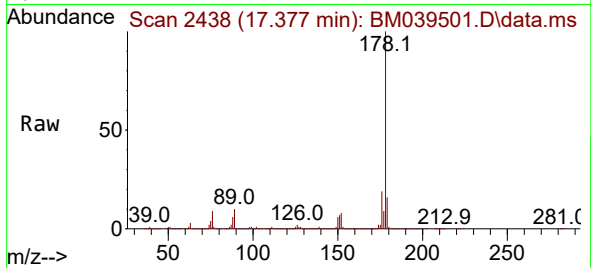
Tgt Ion:178 Resp: 3567578

Ion Ratio Lower Upper

178 100

179 15.6 12.2 18.4

176 18.7 15.8 23.8



#74

Anthracene

Concen: 69.680 ng/ul

RT: 17.377 min Scan# 2438

Delta R.T. 0.003 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

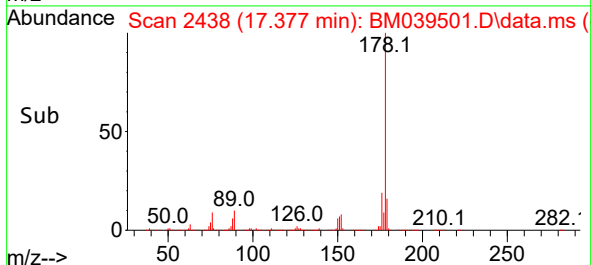
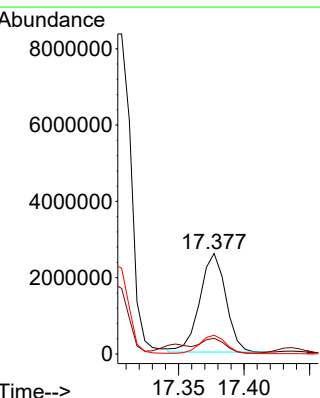
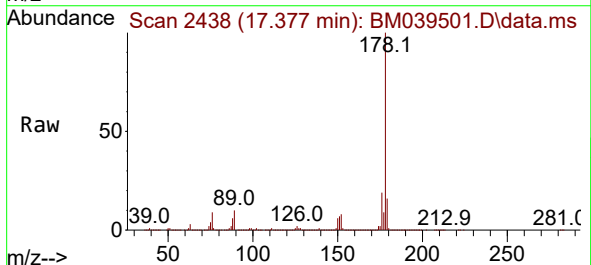
Tgt Ion:178 Resp: 3567578

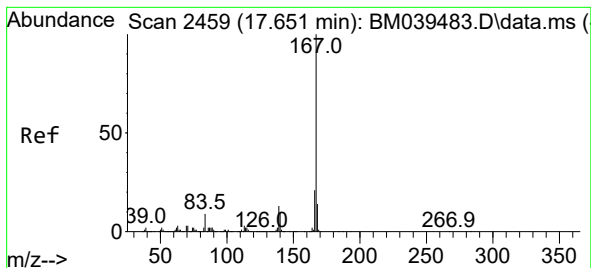
Ion Ratio Lower Upper

178 100

179 15.6 12.1 18.1

176 18.7 15.0 22.6





#77

Carbazole

Concen: 34.750 ng/ul

RT: 17.648 min Scan# 24

Delta R.T. -0.003 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Instrument :

BNA_M

ClientSampleId :

DCBM0DL

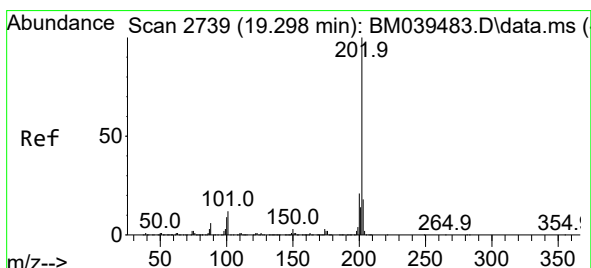
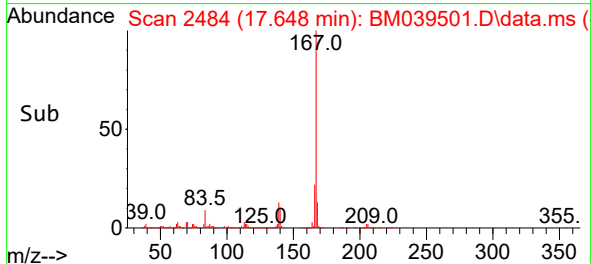
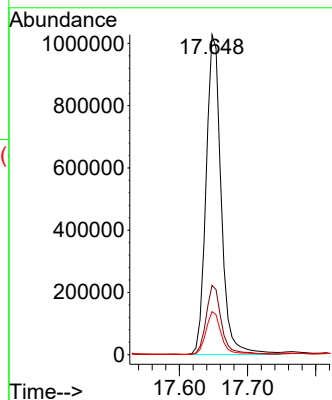
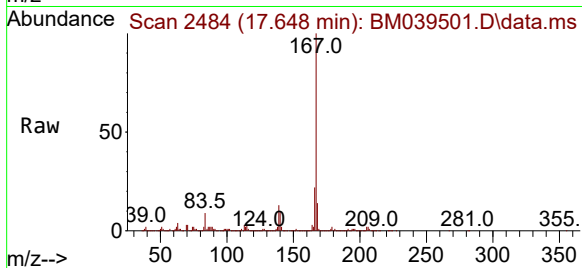
Tgt Ion:167 Resp: 1580983

Ion Ratio Lower Upper

167 100

166 21.7 17.0 25.4

139 13.5 10.6 15.8



#80

Fluoranthene

Concen: 169.119 ng/ul

RT: 19.306 min Scan# 2766

Delta R.T. 0.009 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

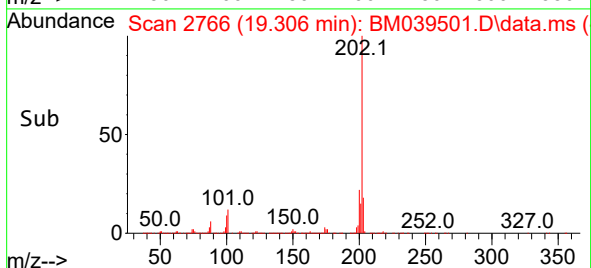
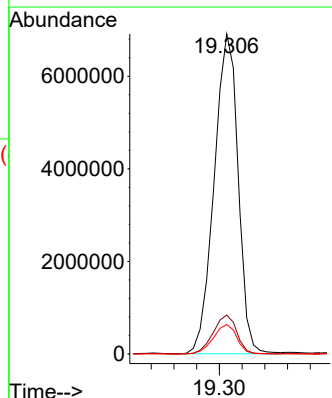
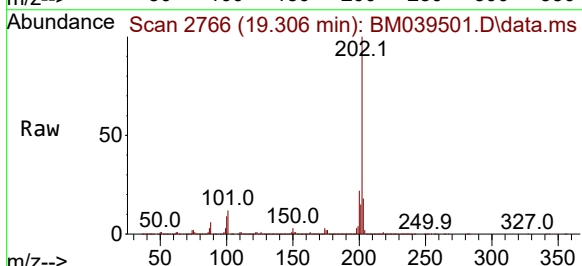
Tgt Ion:202 Resp:10131518

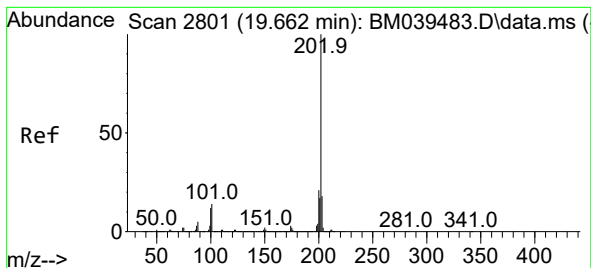
Ion Ratio Lower Upper

202 100

101 12.1 10.4 15.6

100 9.2 7.7 11.5





#82

Pyrene

Concen: 111.878 ng/ul

RT: 19.671 min Scan# 2

Delta R.T. 0.009 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Instrument :

BNA_M

ClientSampleId :

DCBM0DL

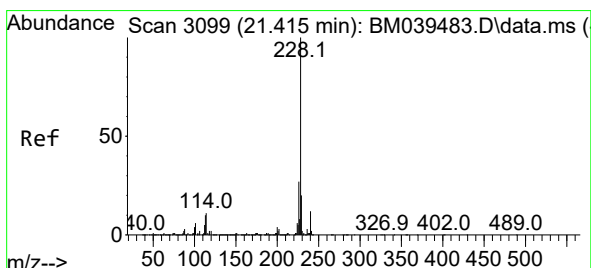
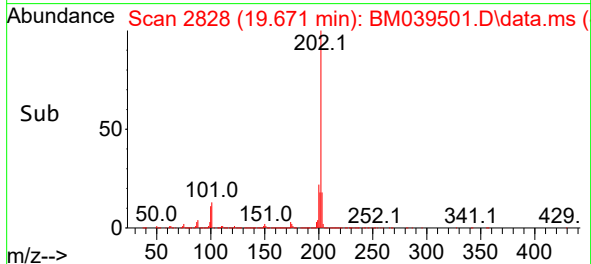
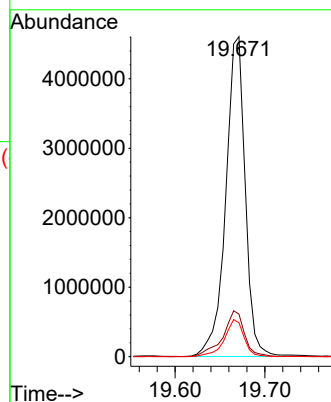
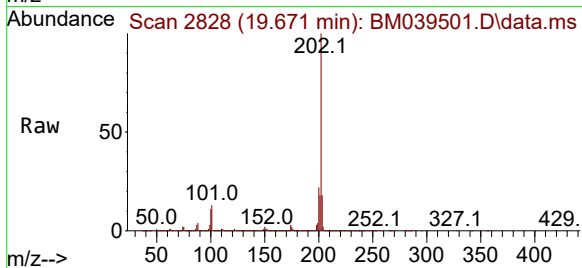
Tgt Ion:202 Resp: 6938431

Ion Ratio Lower Upper

202 100

101 13.3 12.1 18.1

100 10.6 9.6 14.4



#85

Benzo(a)anthracene

Concen: 20.246 ng/ul

RT: 21.412 min Scan# 3124

Delta R.T. -0.003 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

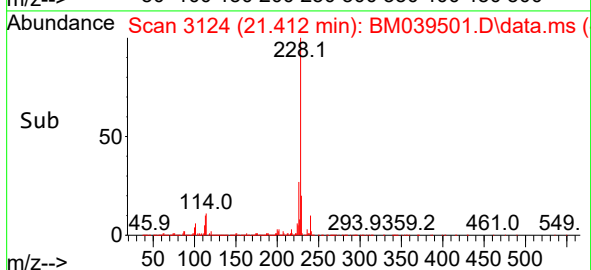
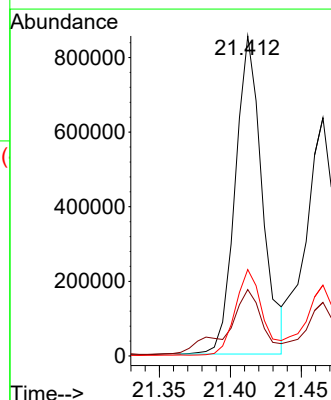
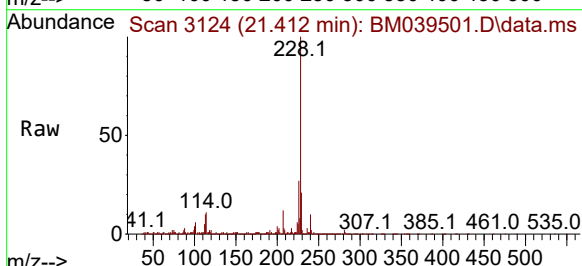
Tgt Ion:228 Resp: 1126313

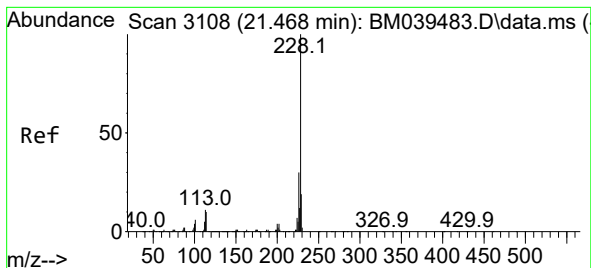
Ion Ratio Lower Upper

228 100

229 20.8 15.4 23.2

226 27.0 21.6 32.4





#87

Chrysene

Concen: 17.462 ng/ul

RT: 21.465 min Scan# 3108

Delta R.T. -0.003 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Instrument :

BNA_M

ClientSampleId :

DCBM0DL

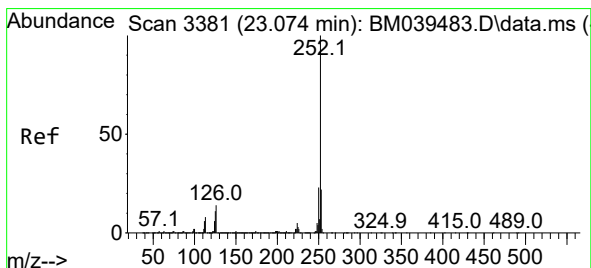
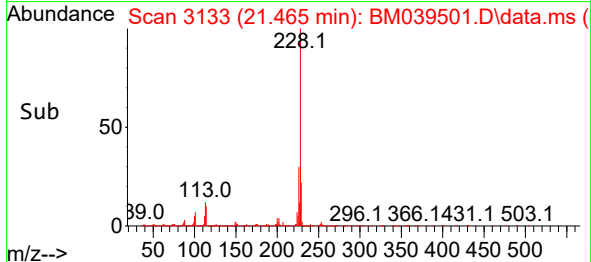
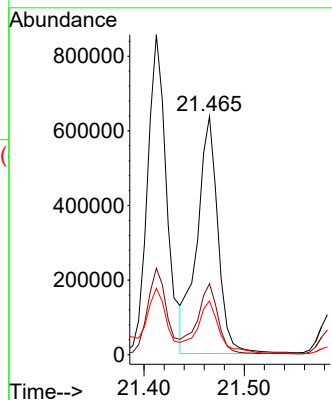
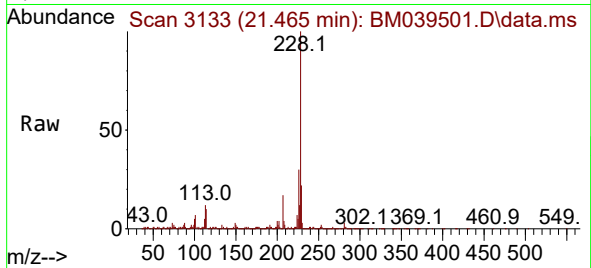
Tgt Ion:228 Resp: 926665

Ion Ratio Lower Upper

228 100

226 29.8 23.9 35.9

229 22.5 15.8 23.6



#90

Benzo(b)fluoranthene

Concen: 7.442 ng/ul

RT: 23.077 min Scan# 3407

Delta R.T. 0.003 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

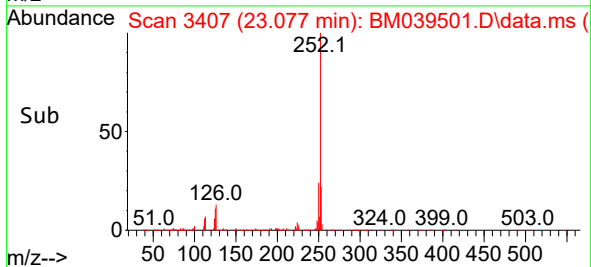
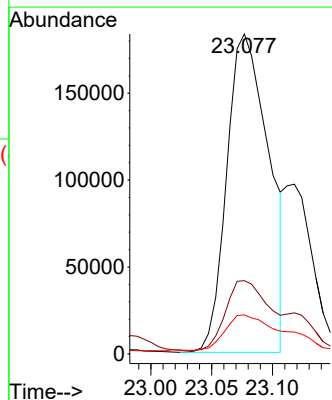
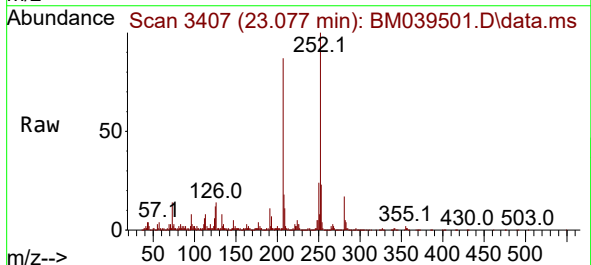
Tgt Ion:252 Resp: 440034

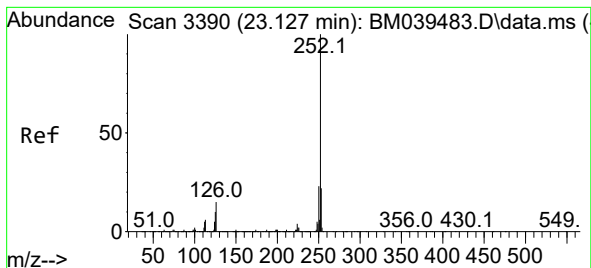
Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.2

125 12.2 8.7 13.1





#91

Benzo(k)fluoranthene

Concen: 7.578 ng/ul

RT: 23.077 min Scan# 34

Delta R.T. -0.050 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Instrument :

BNA_M

ClientSampleId :

DCBM0DL

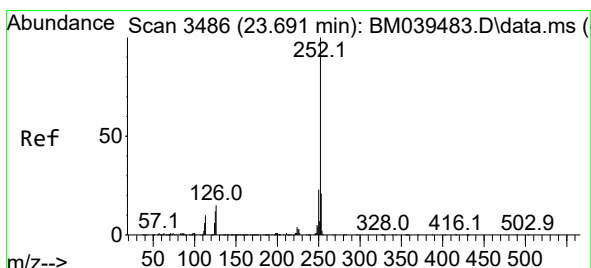
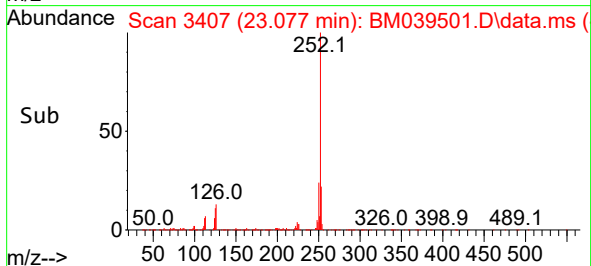
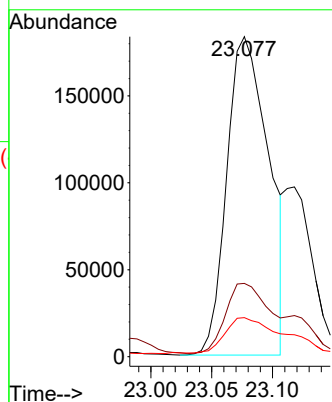
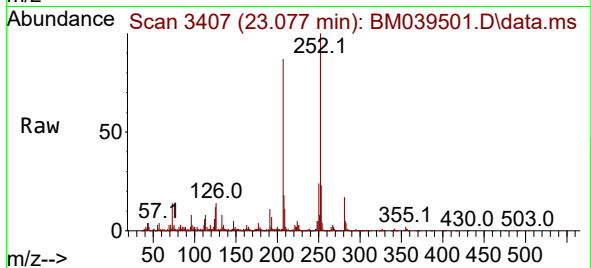
Tgt Ion:252 Resp: 440034

Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

125 12.2 8.6 12.8



#93

Benzo(a)pyrene

Concen: 4.597 ng/ul

RT: 23.689 min Scan# 3511

Delta R.T. -0.003 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

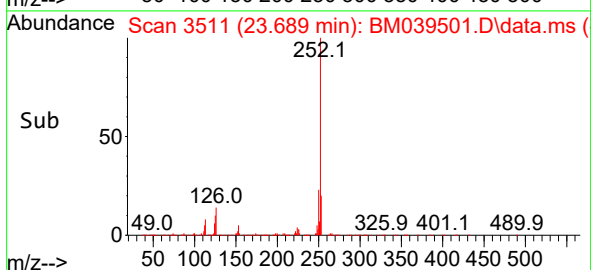
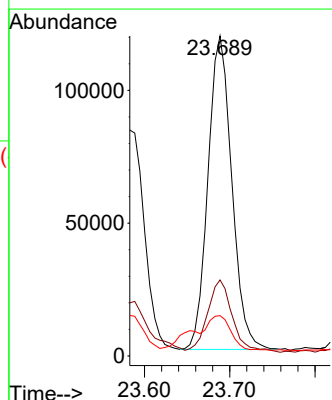
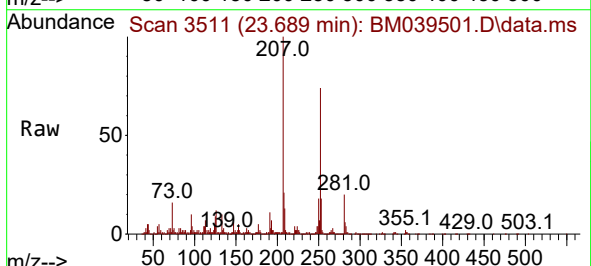
Tgt Ion:252 Resp: 229140

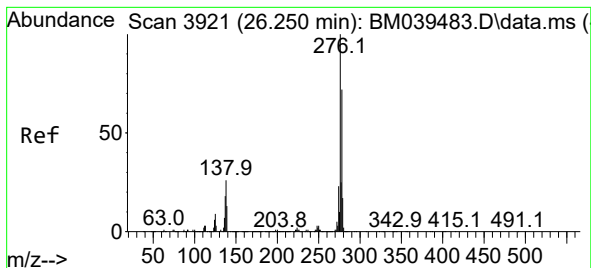
Ion Ratio Lower Upper

252 100

253 23.8 17.4 26.0

125 12.6 9.4 14.2





#94

Indeno(1,2,3-cd)pyrene

Concen: 1.160 ng/ul

RT: 26.241 min Scan# 3921

Delta R.T. -0.009 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Instrument :

BNA_M

ClientSampleId :

DCBM0DL

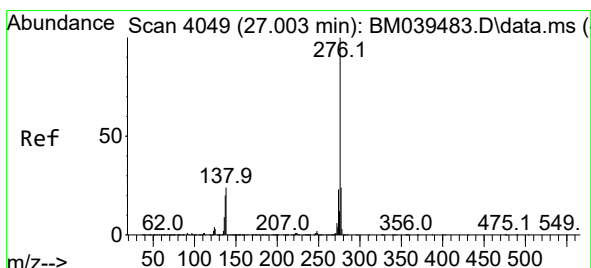
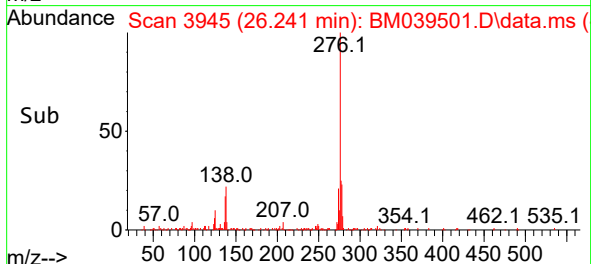
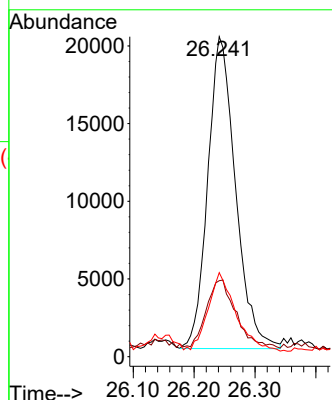
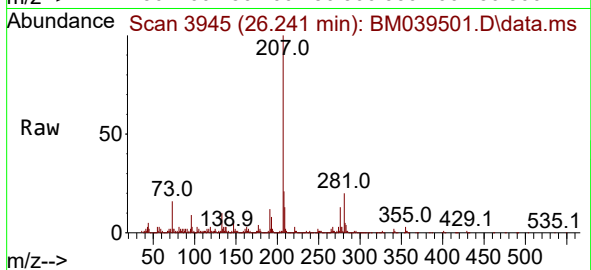
Tgt Ion:276 Resp: 63607

Ion Ratio Lower Upper

276 100

138 23.8 21.2 31.8

277 26.2 20.1 30.1



#96

Benzo(g,h,i)perylene

Concen: 1.174 ng/ul

RT: 27.000 min Scan# 4074

Delta R.T. -0.003 min

Lab File: BM039501.D

Acq: 19 Apr 2023 18:41

Tgt Ion:276 Resp: 51277

Ion Ratio Lower Upper

276 100

138 26.4 18.7 28.1

277 25.3 18.7 28.1

