

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032023\
 Data File : BM039062.D
 Acq On : 21 Mar 2023 02:12
 Operator : CG/JU
 Sample : 01974-04
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SHELL-ROAD-2

Quant Time: Mar 21 03:57:33 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 17 05:25:34 2023
 Response via : Initial Calibration

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

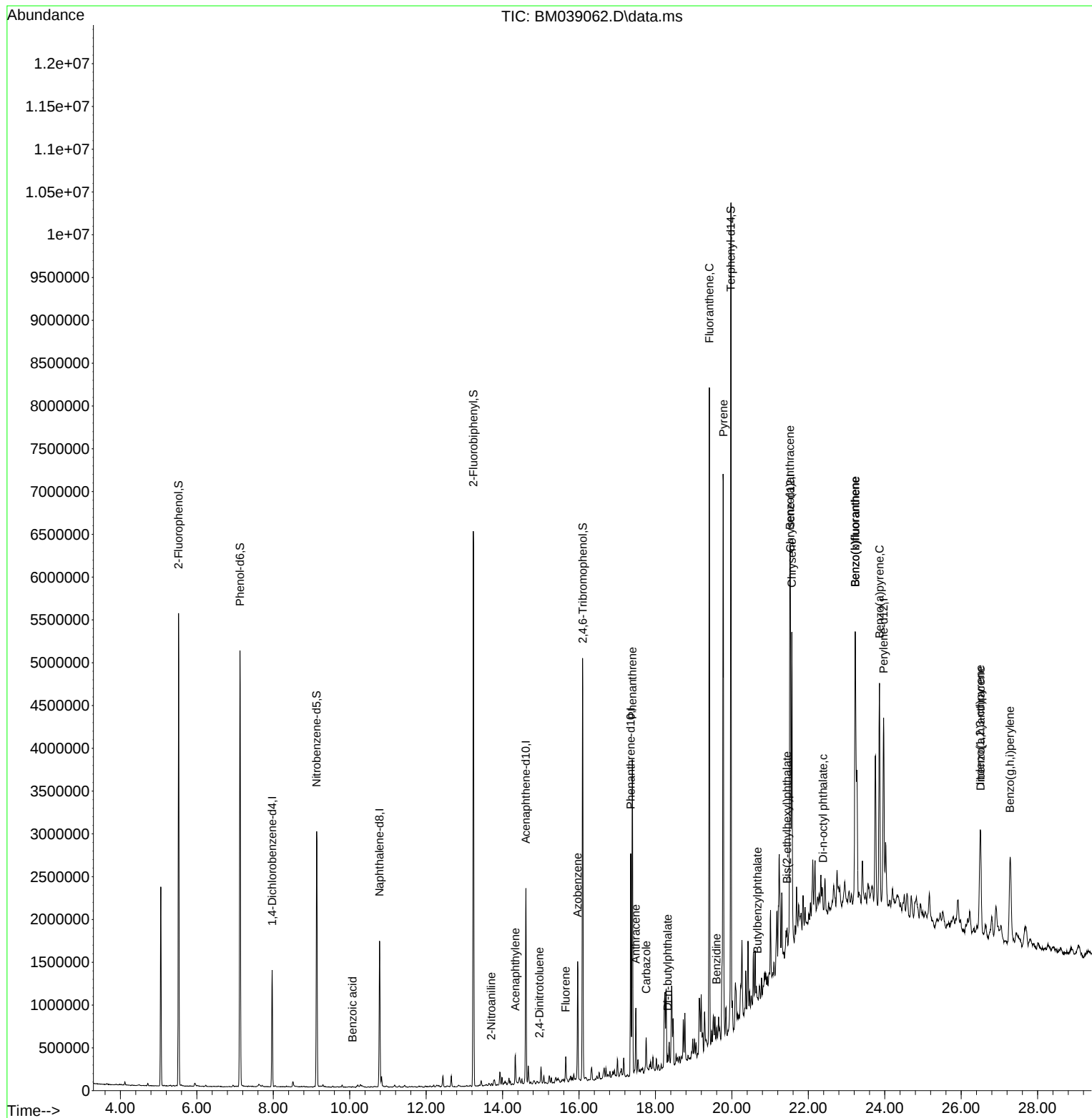
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.969	152	342600	20.000	ng	0.00
21) Naphthalene-d8	10.781	136	1342963	20.000	ng	-0.01
39) Acenaphthene-d10	14.610	164	731206	20.000	ng	0.00
64) Phenanthrene-d10	17.351	188	1448521	20.000	ng	-0.01
76) Chrysene-d12	21.533	240	1366754	20.000	ng	0.00
86) Perylene-d12	23.968	264	1571102	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	2294377	101.746	ng	0.00
7) Phenol-d6	7.128	99	2876340	98.201	ng	0.00
23) Nitrobenzene-d5	9.134	82	1706519	62.419	ng	-0.01
42) 2,4,6-Tribromophenol	16.098	330	779292	92.127	ng	0.00
45) 2-Fluorobiphenyl	13.233	172	3185861	56.719	ng	-0.01
79) Terphenyl-d14	19.974	244	4288384	57.366	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	10.075	122	94	5.738	ng	# 1
48) 2-Nitroaniline	13.704	65	177	2.227	ng	# 24
49) Acenaphthylene	14.333	152	235736	3.168	ng	99
57) 2,4-Dinitrotoluene	14.963	165	690	2.112	ng	# 63
58) Fluorene	15.651	166	120627	2.152	ng	99
63) Azobenzene	15.963	77	385054	6.647	ng	# 1
71) Phenanthrene	17.398	178	2168579	25.508	ng	99
72) Anthracene	17.486	178	457033	5.391	ng	99
73) Carbazole	17.757	167	235032	3.038	ng	98
74) Di-n-butylphthalate	18.321	149	75224	2.566	ng	98
75) Fluoranthene	19.410	202	4066439	45.302	ng	99
77) Benzidine	19.598	184	281	4.884	ng	# 1
78) Pyrene	19.774	202	3939079	38.372	ng	99
80) Butylbenzylphthalate	20.668	149	7134	3.468	ng	# 57
81) Benzo(a)anthracene	21.515	228	1812260	18.412	ng	96
83) Chrysene	21.568	228	1990723	20.796	ng	98
84) Bis(2-ethylhexyl)phtha...	21.445	149	64926	3.461	ng	# 94
85) Di-n-octyl phthalate	22.386	149	5030	3.841	ng	# 71
87) Indeno(1,2,3-cd)pyrene	26.497	276	1310235	10.960	ng	97
88) Benzo(b)fluoranthene	23.227	252	3467628	34.548	ng	96
89) Benzo(k)fluoranthene	23.227	252	3467628	33.196	ng	96
90) Benzo(a)pyrene	23.862	252	1789791	18.528	ng	97
91) Dibenzo(a,h)anthracene	26.509	278	333829	3.297	ng	# 86
92) Benzo(g,h,i)perylene	27.280	276	1338643	13.514	ng	98

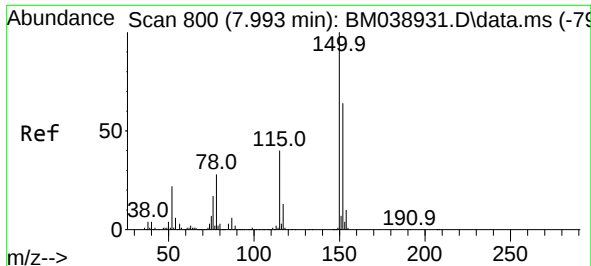
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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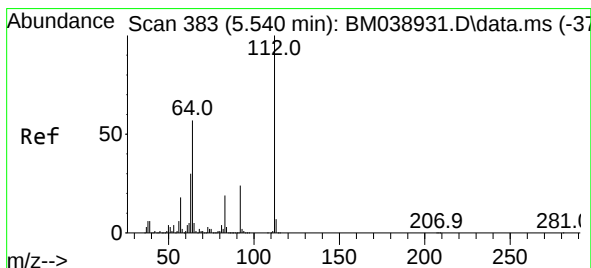
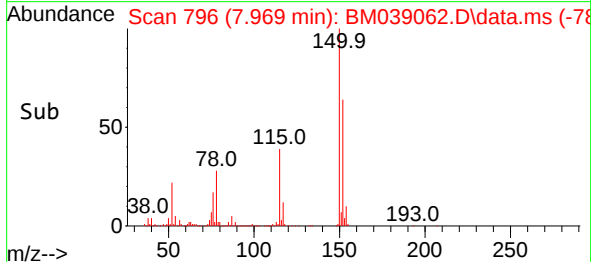
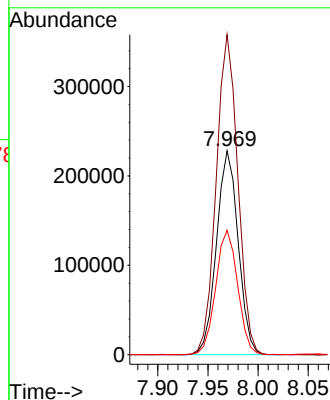
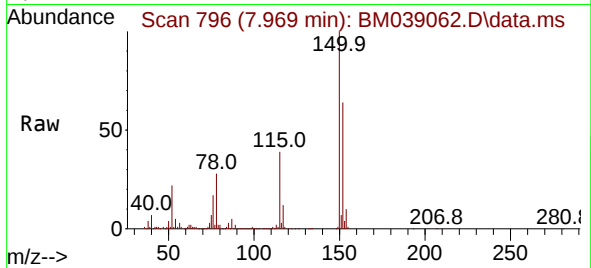




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.969 min Scan# 796
 Delta R.T. -0.006 min
 Lab File: BM039062.D
 Acq: 21 Mar 2023 02:12

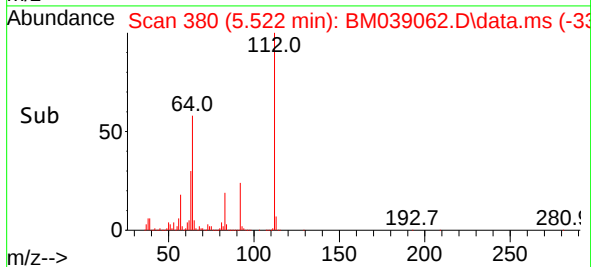
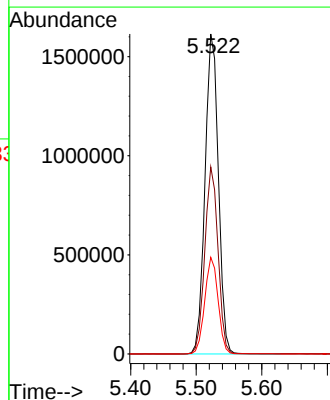
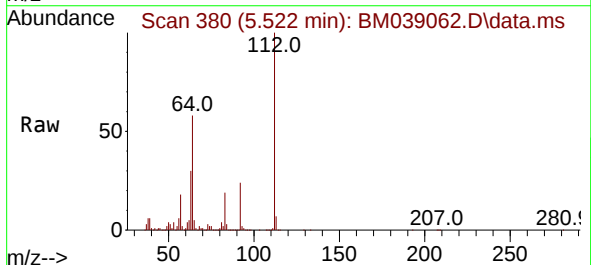
Instrument :
 BNA_M
 ClientSampleId :
 SHELL-ROAD-2

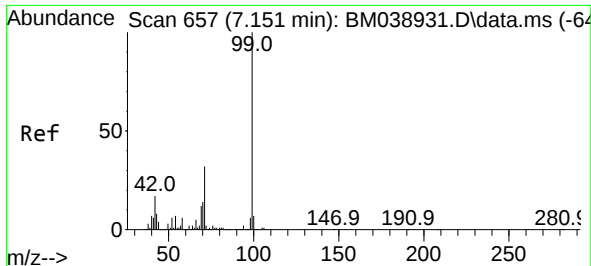
Tgt Ion:152 Resp: 342600
 Ion Ratio Lower Upper
 152 100
 150 157.0 125.1 187.7
 115 60.9 49.6 74.4



#5
 2-Fluorophenol
 Concen: 101.746 ng
 RT: 5.522 min Scan# 380
 Delta R.T. -0.006 min
 Lab File: BM039062.D
 Acq: 21 Mar 2023 02:12

Tgt Ion:112 Resp: 2294377
 Ion Ratio Lower Upper
 112 100
 64 58.5 45.9 68.9
 63 30.2 23.8 35.8



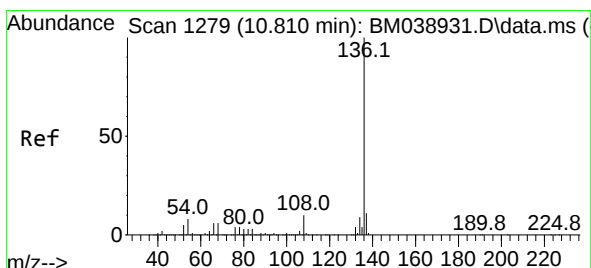
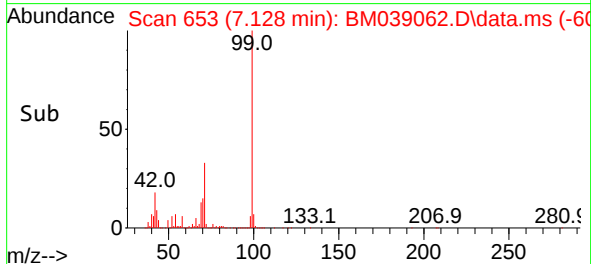
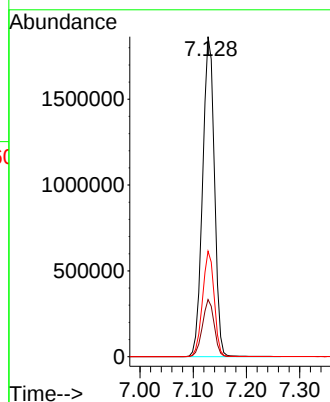
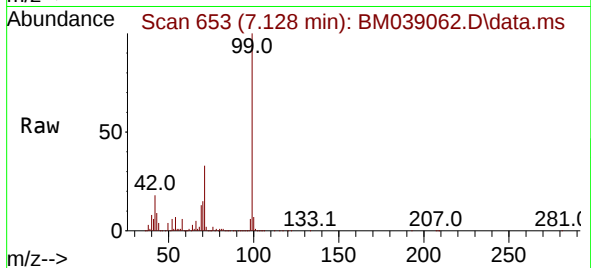


#7
Phenol-d6
Concen: 98.201 ng
RT: 7.128 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-2

Tgt Ion: 99 Resp: 2876340

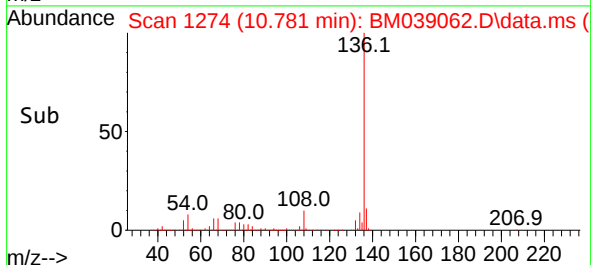
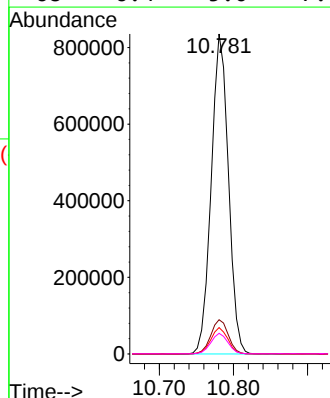
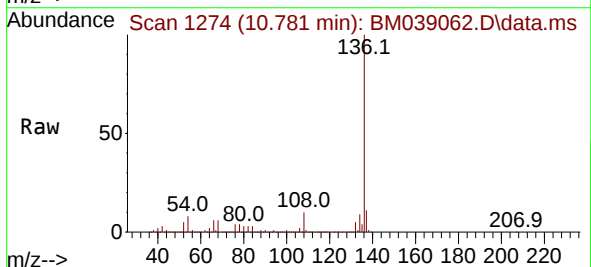
Ion	Ratio	Lower	Upper
99	100		
42	17.8	13.5	20.3
71	33.0	25.6	38.4

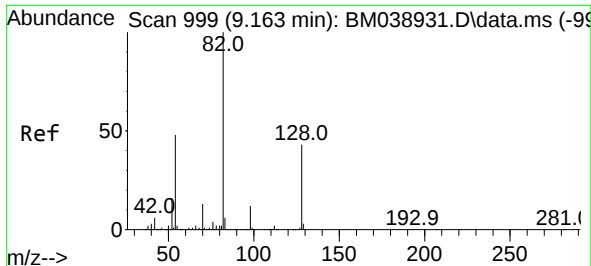


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.781 min Scan# 1274
Delta R.T. -0.012 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

Tgt Ion: 136 Resp: 1342963

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.7	13.1
54	8.3	6.3	9.5
68	6.4	5.0	7.6

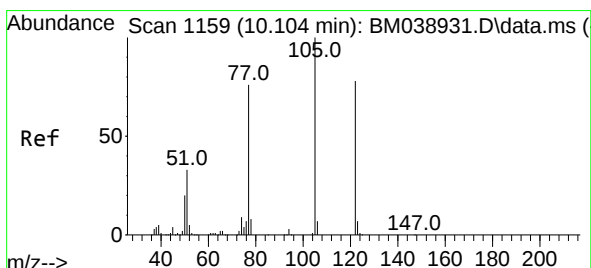
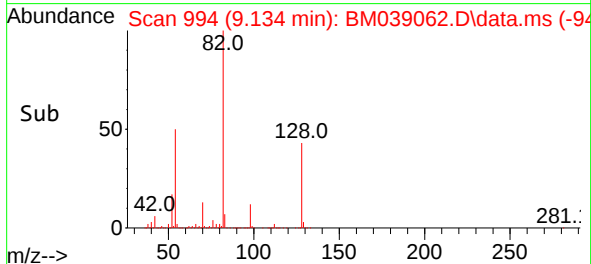
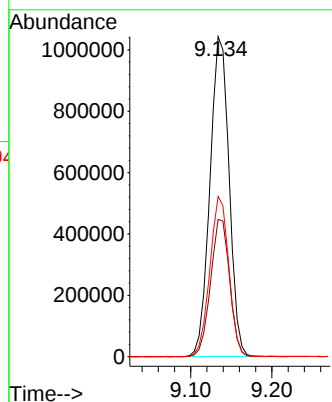
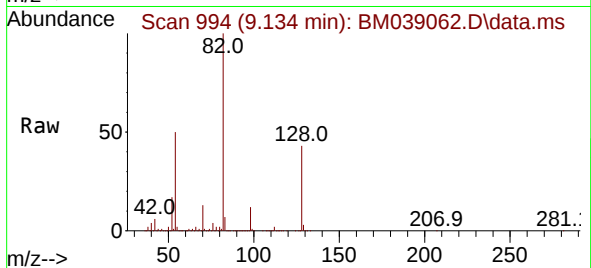




#23
Nitrobenzene-d5
Concen: 62.419 ng
RT: 9.134 min Scan# 994
Delta R.T. -0.012 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

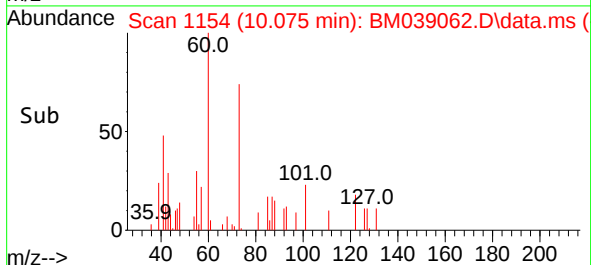
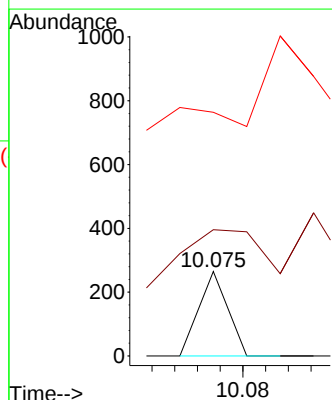
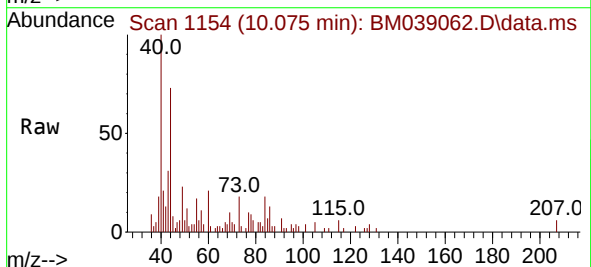
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-2

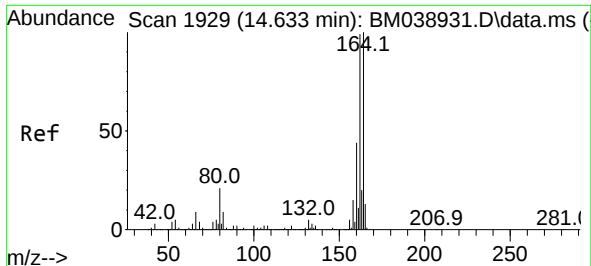
Tgt Ion: 82 Resp: 1706519
Ion Ratio Lower Upper
82 100
128 42.9 34.4 51.6
54 50.0 38.8 58.2



#32
Benzoic acid
Concen: 5.738 ng
RT: 10.075 min Scan# 1154
Delta R.T. -0.023 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

Tgt Ion: 122 Resp: 94
Ion Ratio Lower Upper
122 100
105 149.4 104.2 144.2#
77 288.3 75.1 115.1#

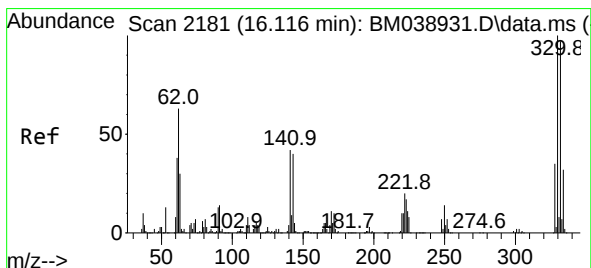
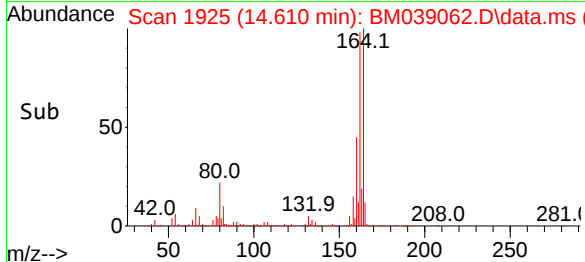
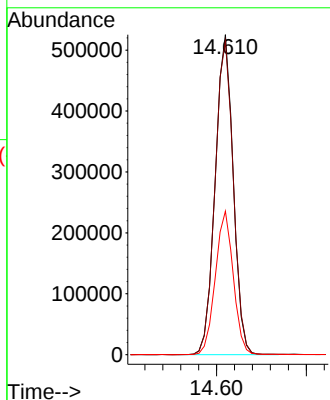
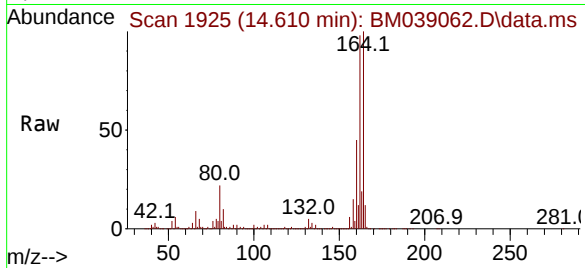




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.610 min Scan# 1925
Delta R.T. -0.006 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

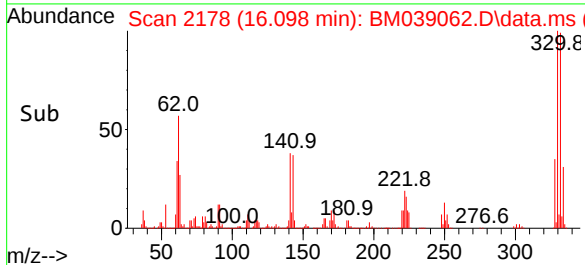
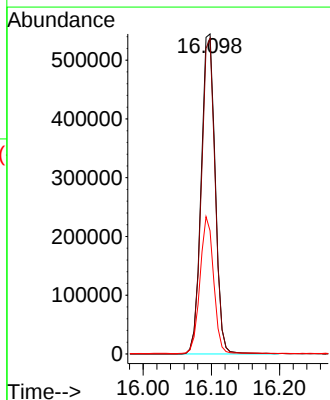
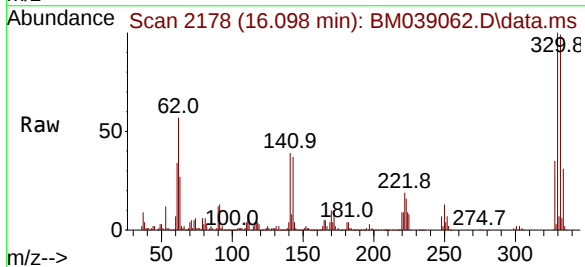
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-2

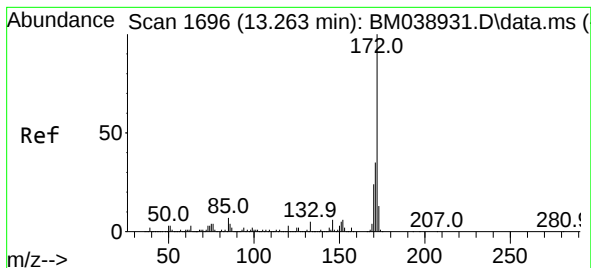
Tgt Ion:164 Resp: 731206
Ion Ratio Lower Upper
164 100
162 98.0 79.2 118.8
160 44.9 35.5 53.3



#42
2,4,6-Tribromophenol
Concen: 92.127 ng
RT: 16.098 min Scan# 2178
Delta R.T. -0.006 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

Tgt Ion:330 Resp: 779292
Ion Ratio Lower Upper
330 100
332 96.7 77.4 116.0
141 41.5 32.2 48.4





#45

2-Fluorobiphenyl

Concen: 56.719 ng

RT: 13.233 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-2

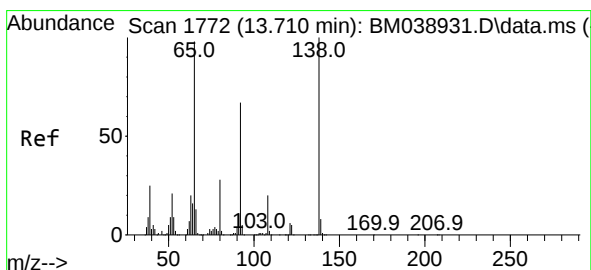
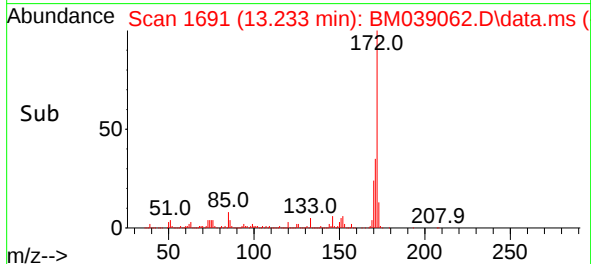
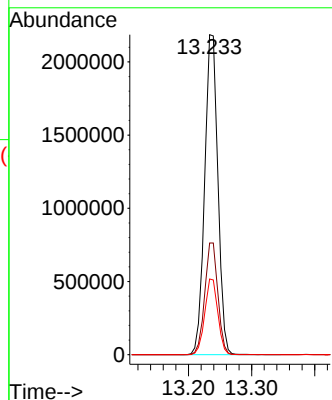
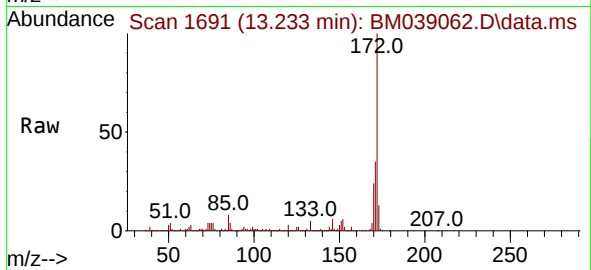
Tgt Ion:172 Resp: 3185861

Ion Ratio Lower Upper

172 100

171 34.9 28.2 42.2

170 23.7 19.1 28.7



#48

2-Nitroaniline

Concen: 2.227 ng

RT: 13.704 min Scan# 1771

Delta R.T. 0.006 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

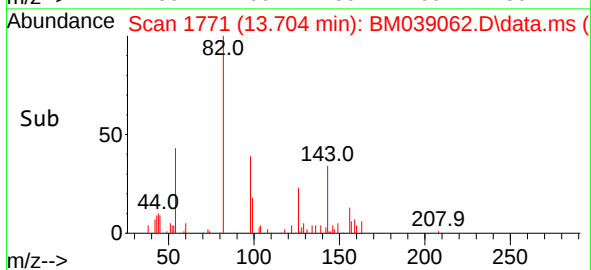
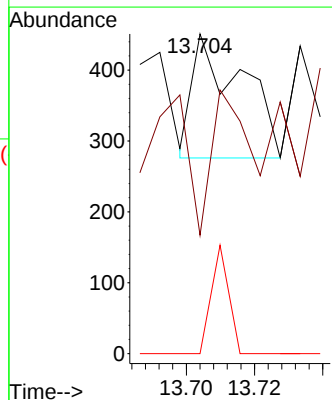
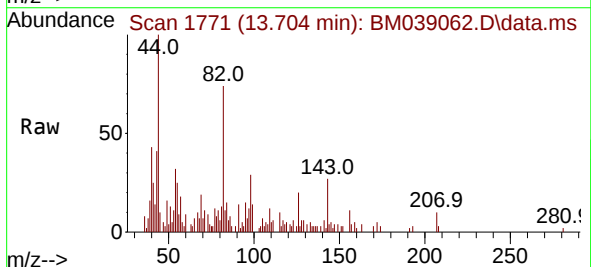
Tgt Ion: 65 Resp: 177

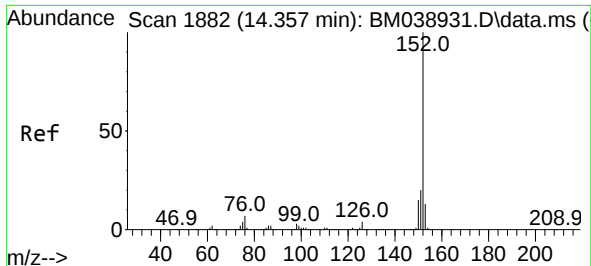
Ion Ratio Lower Upper

65 100

92 37.0 54.9 82.3#

138 0.0 81.6 122.4#

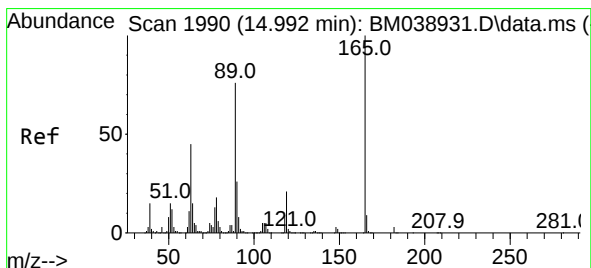
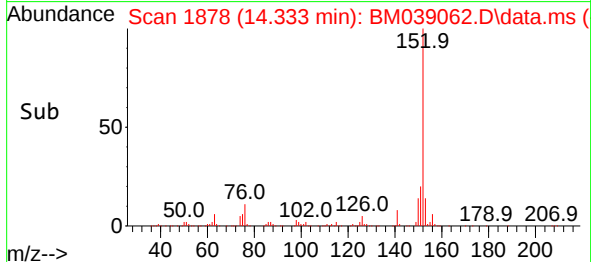
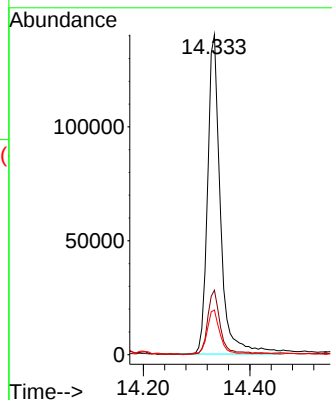
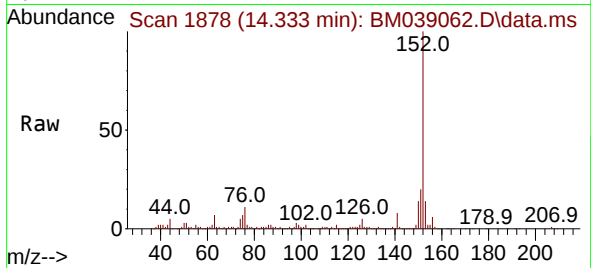




#49
Acenaphthylene
Concen: 3.168 ng
RT: 14.333 min Scan# 1878
Delta R.T. -0.006 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

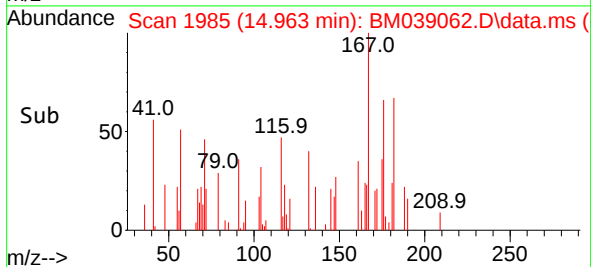
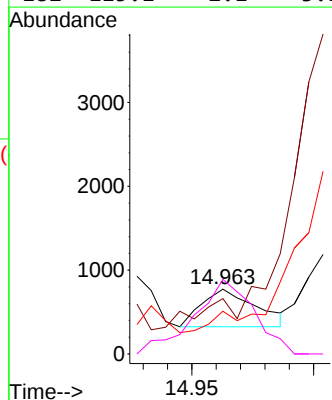
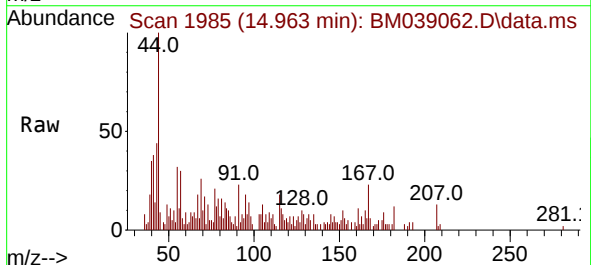
Instrument :
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SHELL-ROAD-2

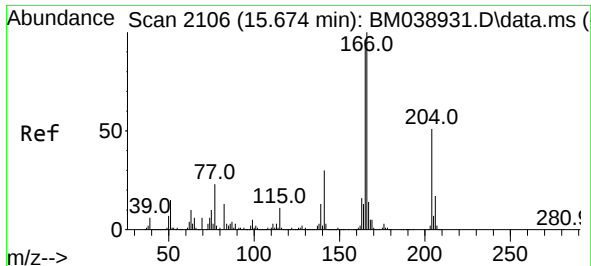
Tgt Ion:152 Resp: 235736
Ion Ratio Lower Upper
152 100
151 20.1 15.8 23.8
153 13.9 10.4 15.6



#57
2,4-Dinitrotoluene
Concen: 2.112 ng
RT: 14.963 min Scan# 1985
Delta R.T. -0.012 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

Tgt Ion:165 Resp: 690
Ion Ratio Lower Upper
165 100
63 85.5 35.9 53.9#
89 66.0 61.0 91.6
182 115.1 2.1 3.1#

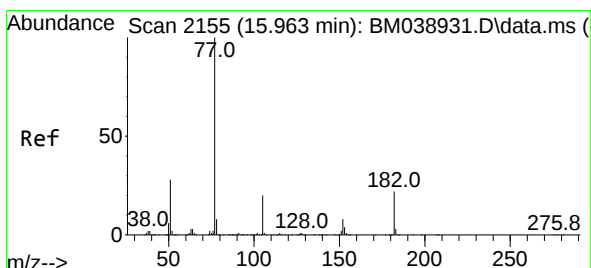
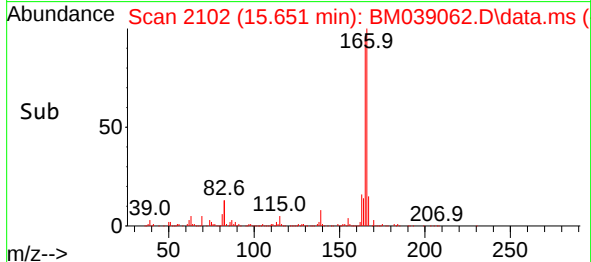
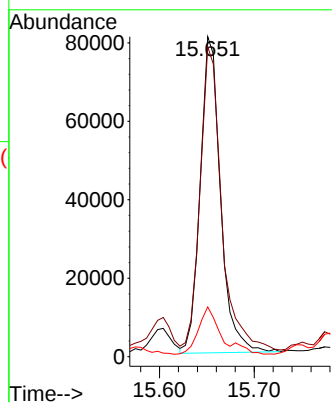
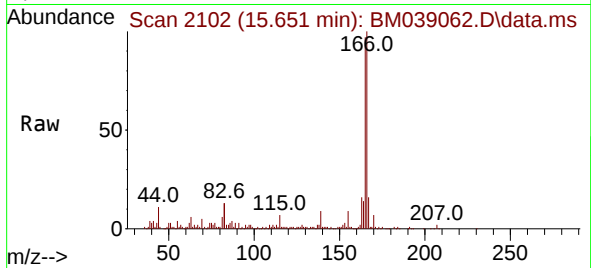




#58
 Fluorene
 Concen: 2.152 ng
 RT: 15.651 min Scan# 2102
 Delta R.T. -0.012 min
 Lab File: BM039062.D
 Acq: 21 Mar 2023 02:12

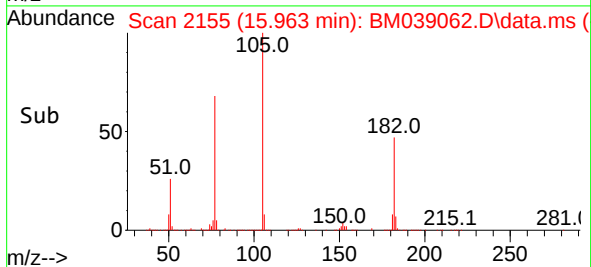
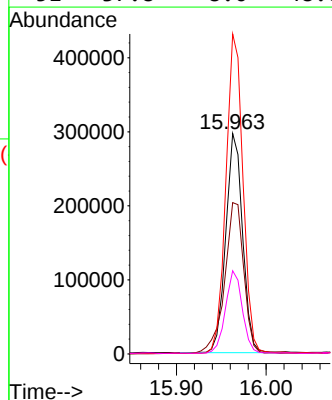
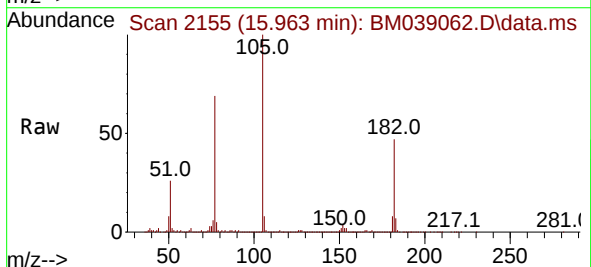
Instrument :
 BNA_M
 ClientSampleId :
 SHELL-ROAD-2

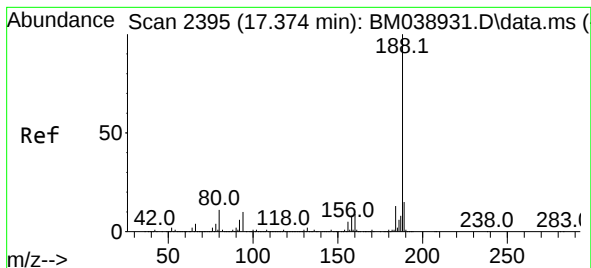
Tgt Ion:166 Resp: 120627
 Ion Ratio Lower Upper
 166 100
 165 96.9 77.1 115.7
 167 15.6 10.9 16.3



#63
 Azobenzene
 Concen: 6.647 ng
 RT: 15.963 min Scan# 2155
 Delta R.T. 0.012 min
 Lab File: BM039062.D
 Acq: 21 Mar 2023 02:12

Tgt Ion: 77 Resp: 385054
 Ion Ratio Lower Upper
 77 100
 182 68.7 2.0 42.0#
 105 145.1 0.4 40.4#
 51 37.8 8.0 48.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.351 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-2

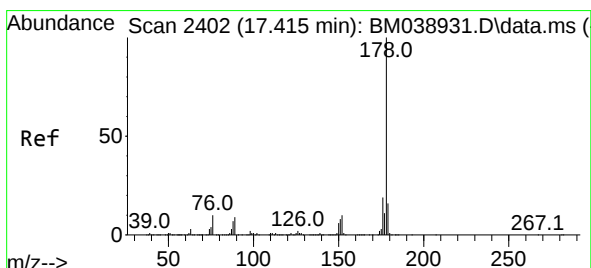
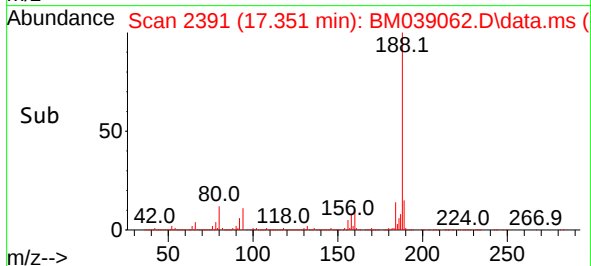
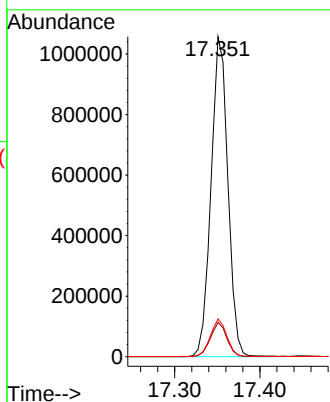
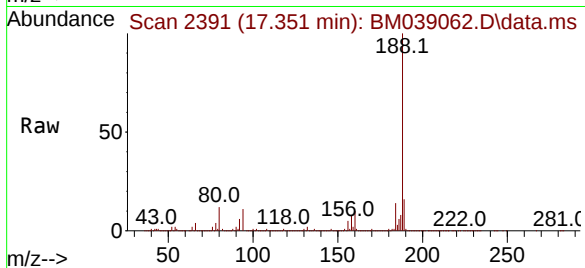
Tgt Ion:188 Resp: 1448521

Ion Ratio Lower Upper

188 100

94 10.7 7.9 11.9

80 11.8 8.5 12.7



#71

Phenanthrene

Concen: 25.508 ng

RT: 17.398 min Scan# 2399

Delta R.T. -0.006 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

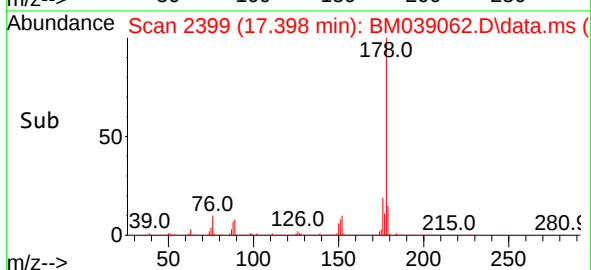
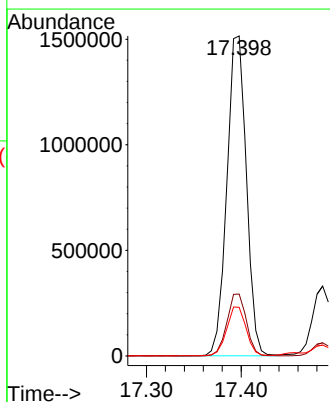
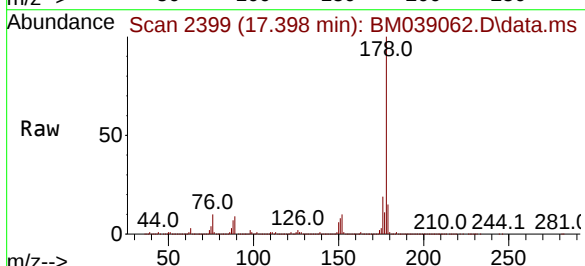
Tgt Ion:178 Resp: 2168579

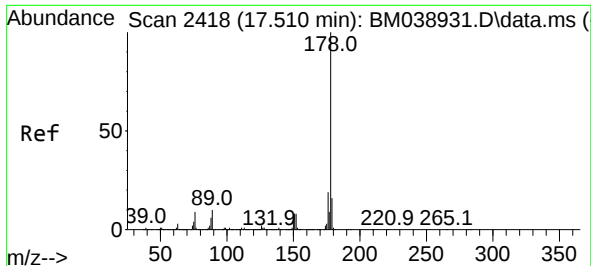
Ion Ratio Lower Upper

178 100

176 19.4 15.6 23.4

179 15.2 12.5 18.7

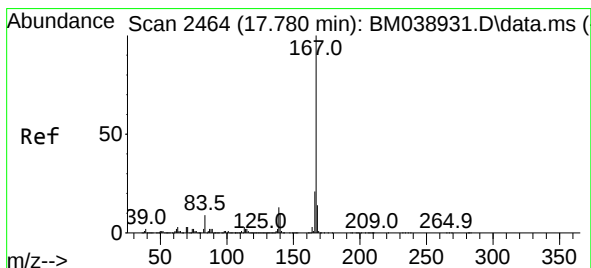
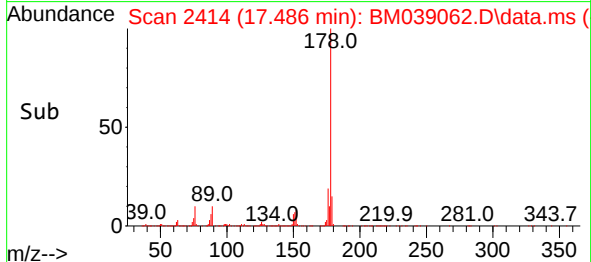
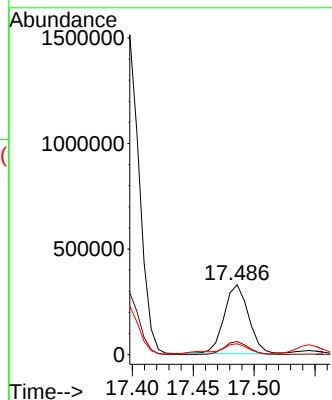
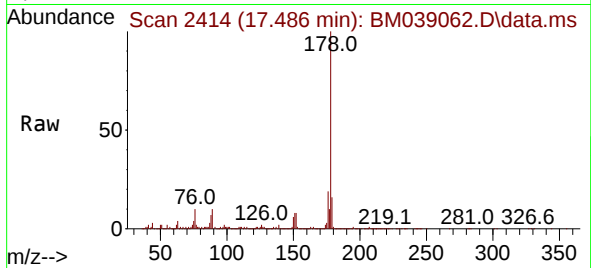




#72
 Anthracene
 Concen: 5.391 ng
 RT: 17.486 min Scan# 2418
 Delta R.T. -0.006 min
 Lab File: BM039062.D
 Acq: 21 Mar 2023 02:12

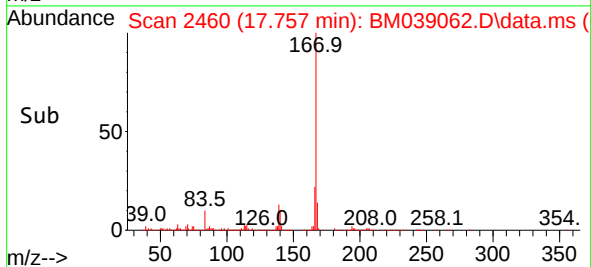
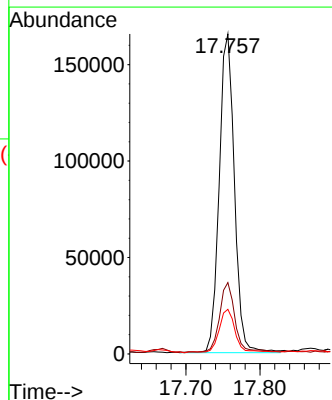
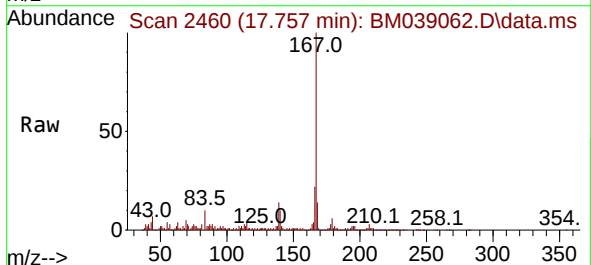
Instrument :
 BNA_M
 ClientSampleId :
 SHELL-ROAD-2

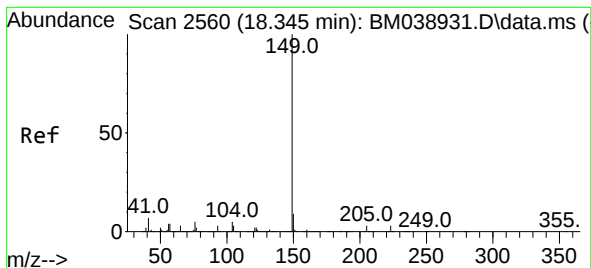
Tgt Ion:178 Resp: 457033
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.3 22.9
 179 15.5 12.5 18.7



#73
 Carbazole
 Concen: 3.038 ng
 RT: 17.757 min Scan# 2460
 Delta R.T. -0.006 min
 Lab File: BM039062.D
 Acq: 21 Mar 2023 02:12

Tgt Ion:167 Resp: 235032
 Ion Ratio Lower Upper
 167 100
 166 22.3 17.0 25.4
 139 13.9 10.3 15.5





#74

Di-n-butylphthalate

Concen: 2.566 ng

RT: 18.321 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-2

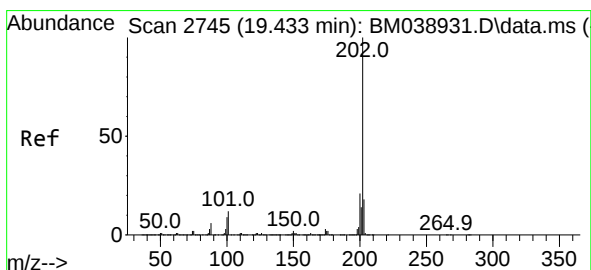
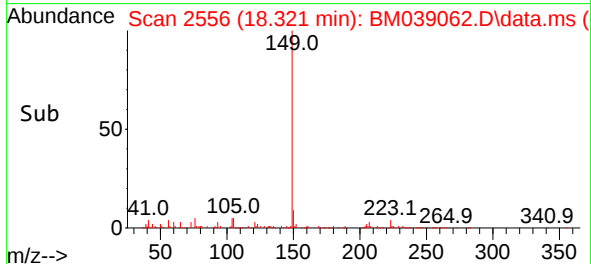
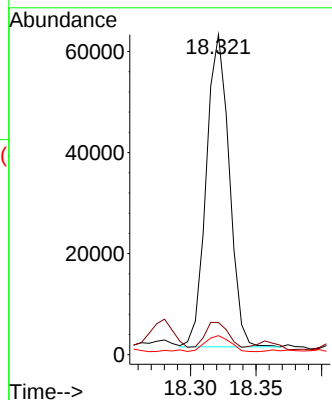
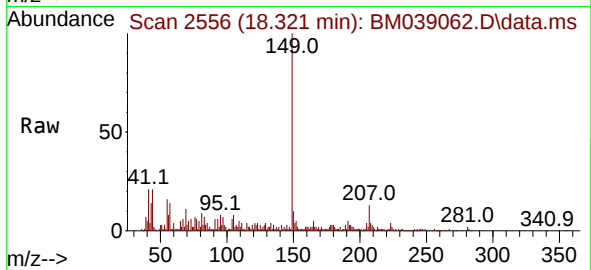
Tgt Ion:149 Resp: 75224

Ion Ratio Lower Upper

149 100

150 10.1 7.4 11.2

104 5.9 4.3 6.5



#75

Fluoranthene

Concen: 45.302 ng

RT: 19.410 min Scan# 2741

Delta R.T. -0.006 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

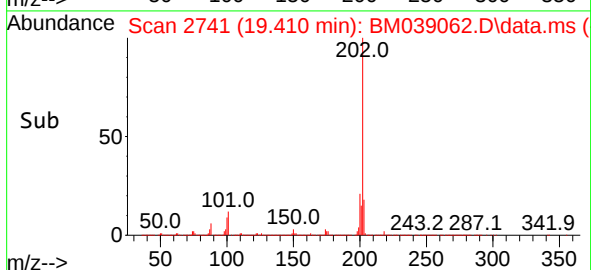
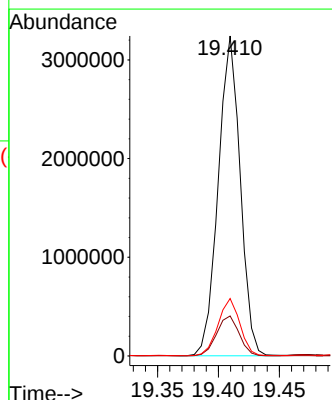
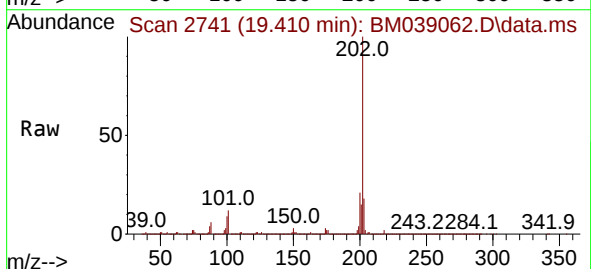
Tgt Ion:202 Resp: 4066439

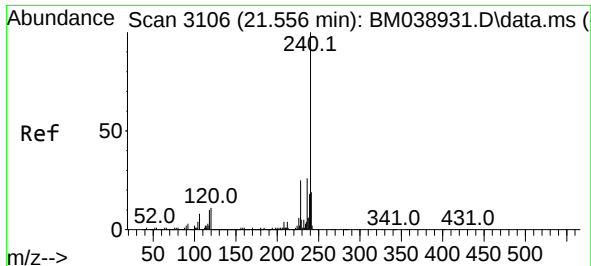
Ion Ratio Lower Upper

202 100

101 12.5 0.0 31.7

203 17.9 0.0 37.6

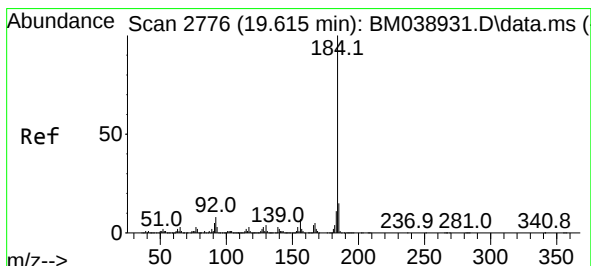
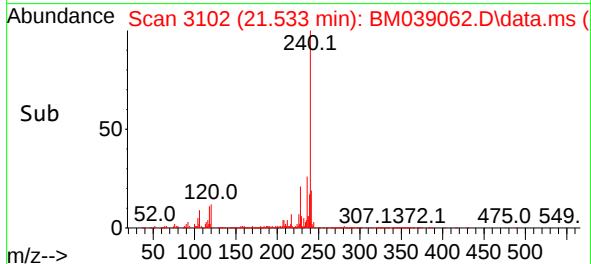
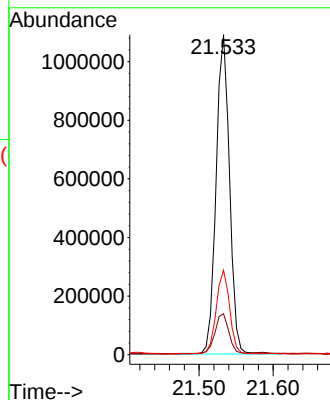
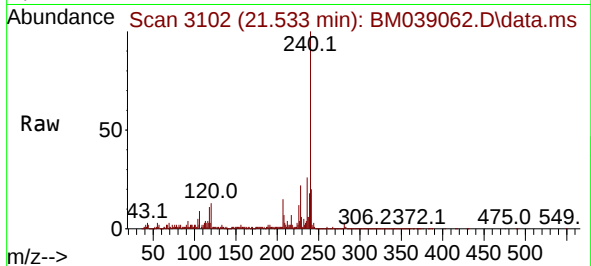




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.533 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

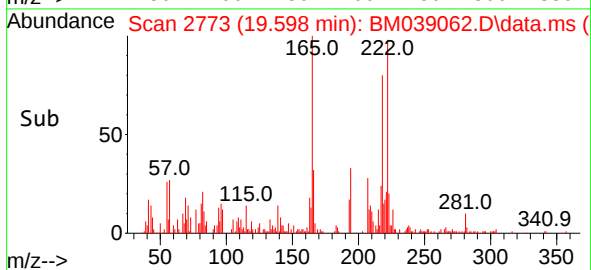
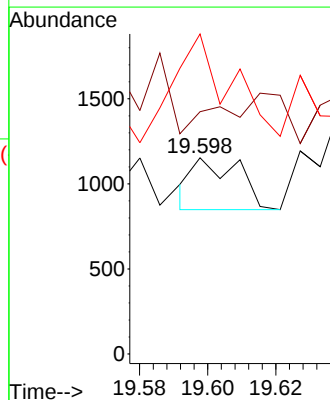
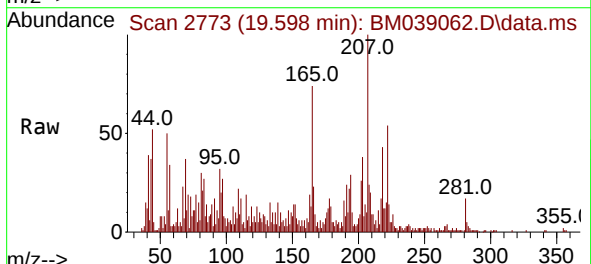
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-2

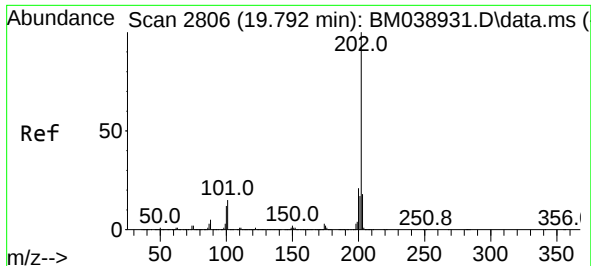
Tgt Ion:240 Resp: 1366754
Ion Ratio Lower Upper
240 100
120 12.8 9.2 13.8
236 26.4 20.8 31.2



#77
Benzidine
Concen: 4.884 ng
RT: 19.598 min Scan# 2773
Delta R.T. 0.000 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

Tgt Ion:184 Resp: 281
Ion Ratio Lower Upper
184 100
185 123.5 12.2 18.4#
183 163.1 8.8 13.2#

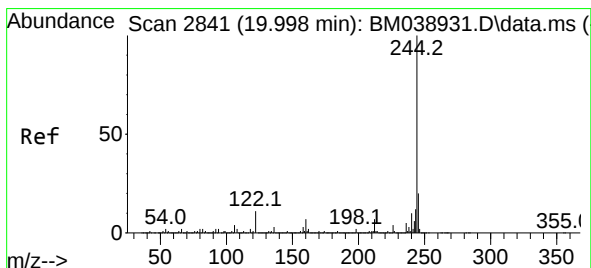
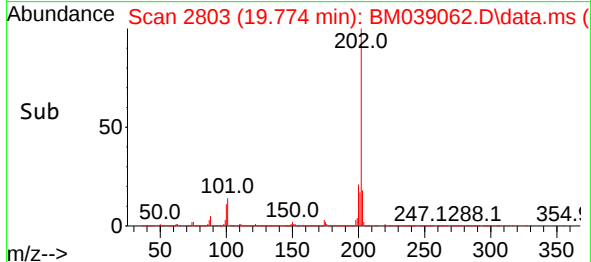
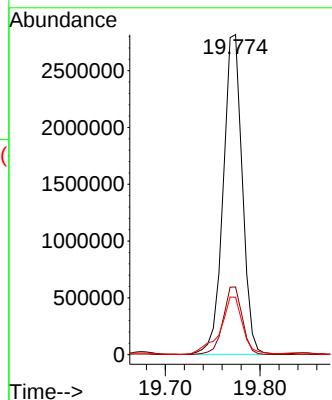
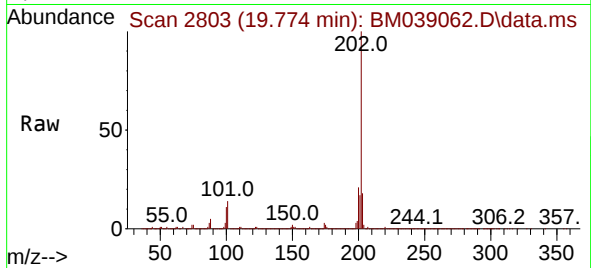




#78
 Pyrene
 Concen: 38.372 ng
 RT: 19.774 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM039062.D
 Acq: 21 Mar 2023 02:12

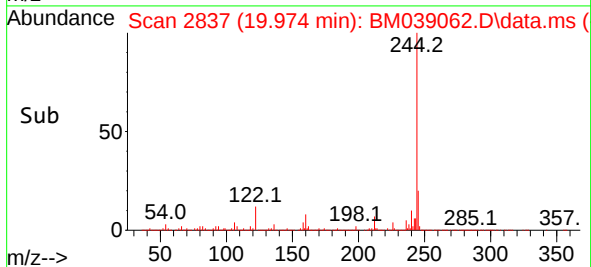
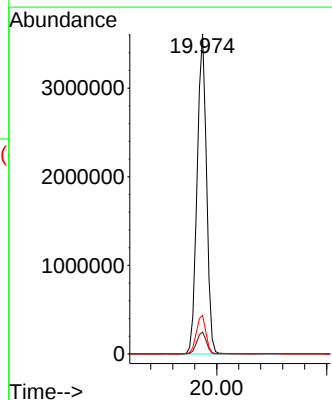
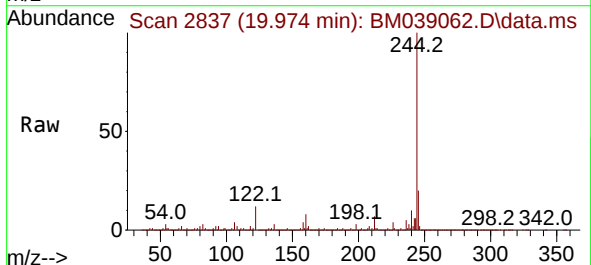
Instrument :
 BNA_M
 ClientSampleId :
 SHELL-ROAD-2

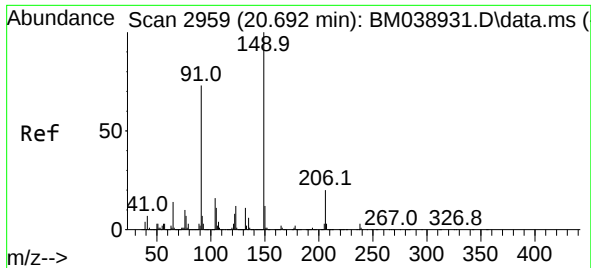
Tgt Ion:202 Resp: 3939079
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.1 25.7
 203 18.0 14.1 21.1



#79
 Terphenyl-d14
 Concen: 57.366 ng
 RT: 19.974 min Scan# 2837
 Delta R.T. -0.006 min
 Lab File: BM039062.D
 Acq: 21 Mar 2023 02:12

Tgt Ion:244 Resp: 4288384
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 12.1 9.0 13.4

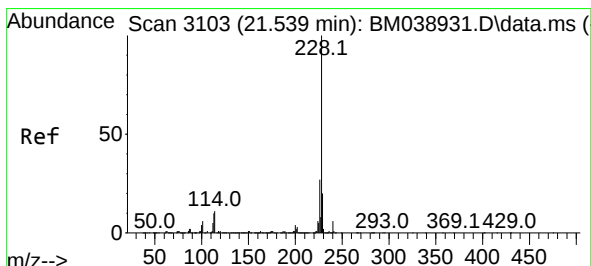
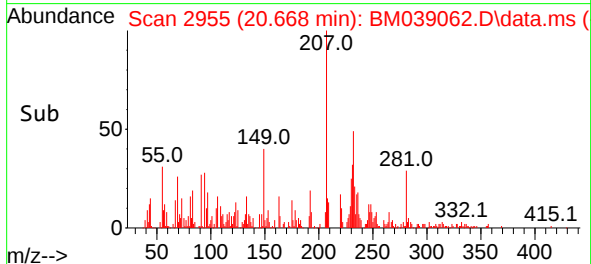
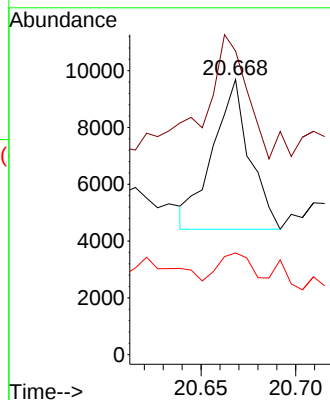
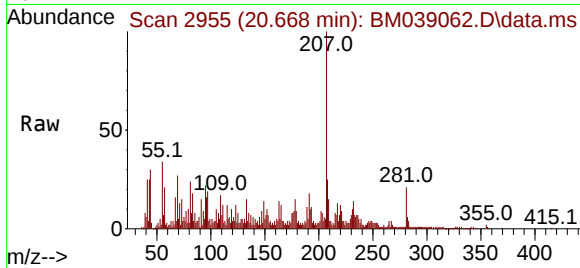




#80
Butylbenzylphthalate
Concen: 3.468 ng
RT: 20.668 min Scan# 2959
Delta R.T. -0.006 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

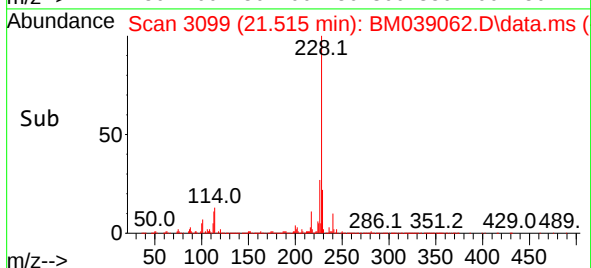
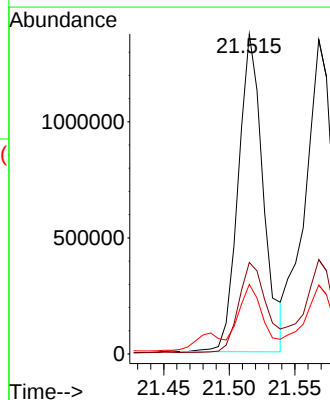
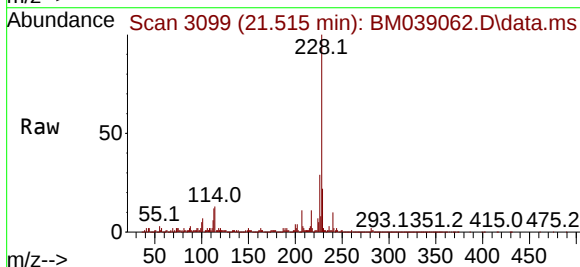
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-2

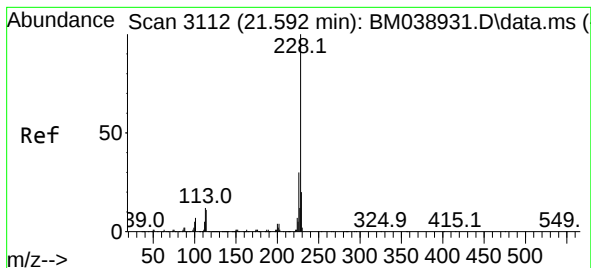
Tgt Ion:149 Resp: 7134
Ion Ratio Lower Upper
149 100
91 110.3 58.4 87.6#
206 37.0 16.1 24.1#



#81
Benzo(a)anthracene
Concen: 18.412 ng
RT: 21.515 min Scan# 3099
Delta R.T. -0.012 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

Tgt Ion:228 Resp: 1812260
Ion Ratio Lower Upper
228 100
226 28.6 21.4 32.2
229 21.7 15.7 23.5





#83

Chrysene

Concen: 20.796 ng

RT: 21.568 min Scan# 3112

Delta R.T. -0.012 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-2

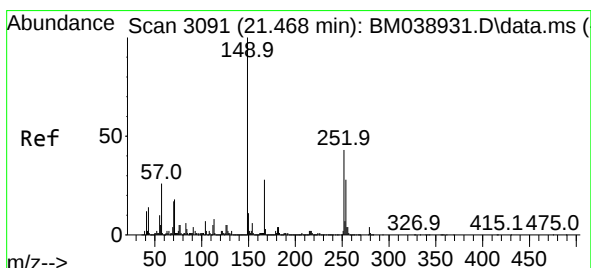
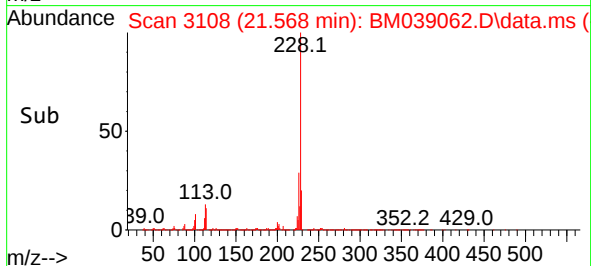
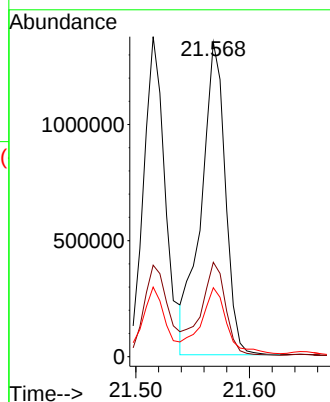
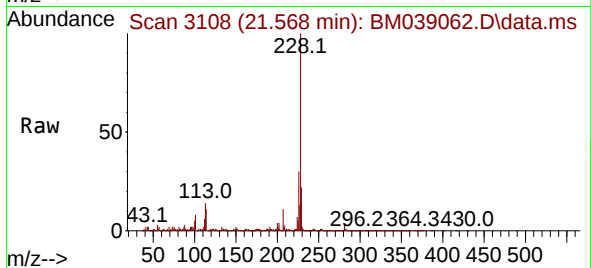
Tgt Ion:228 Resp: 1990723

Ion Ratio Lower Upper

228 100

226 30.0 24.0 36.0

229 21.9 16.0 24.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.461 ng

RT: 21.445 min Scan# 3087

Delta R.T. -0.006 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

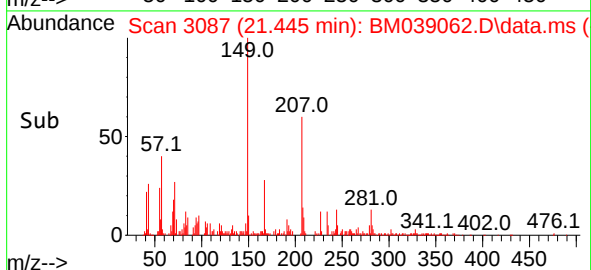
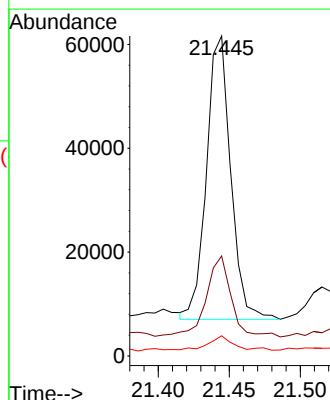
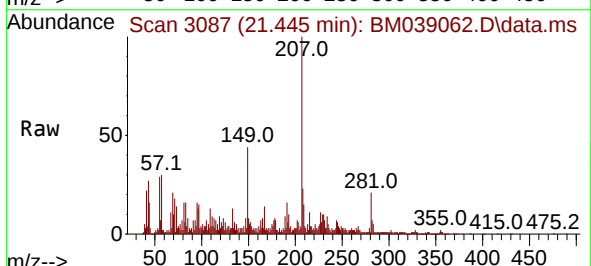
Tgt Ion:149 Resp: 64926

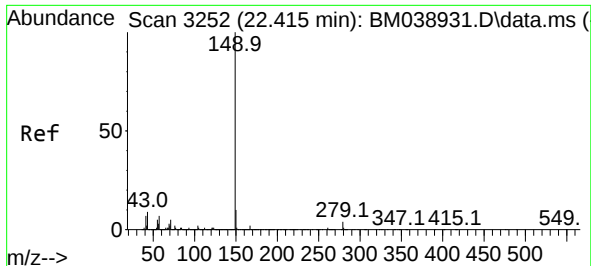
Ion Ratio Lower Upper

149 100

167 31.3 22.3 33.5

279 6.3 3.2 4.8#

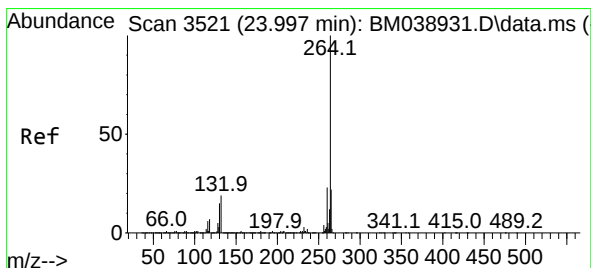
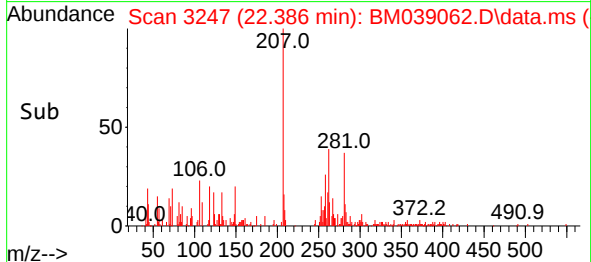
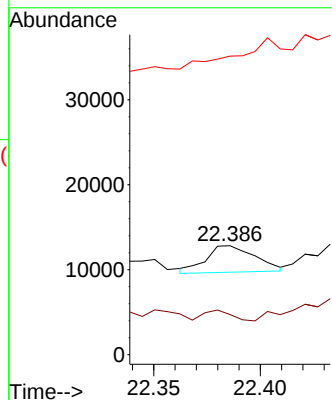
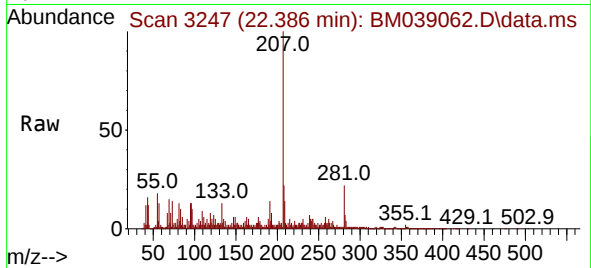




#85
Di-n-octyl phthalate
Concen: 3.841 ng
RT: 22.386 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

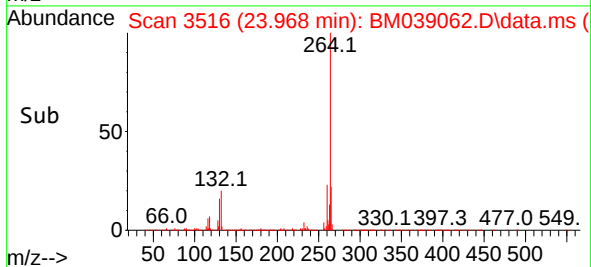
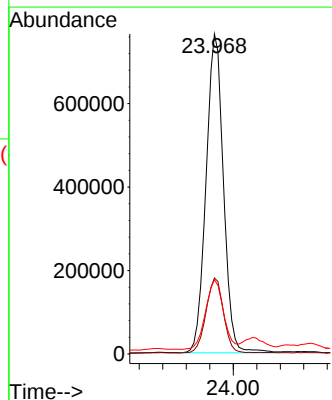
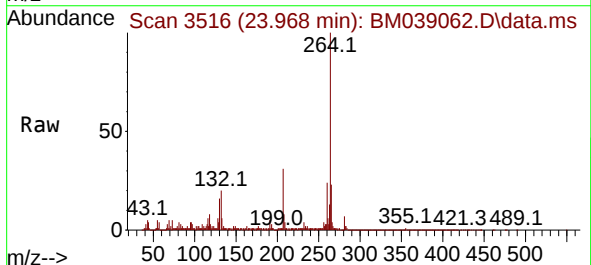
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-2

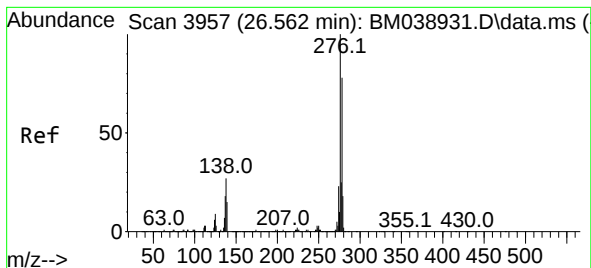
Tgt Ion:149 Resp: 5030
Ion Ratio Lower Upper
149 100
167 21.8 1.2 1.8#
43 0.0 7.4 11.2#



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.968 min Scan# 3516
Delta R.T. -0.012 min
Lab File: BM039062.D
Acq: 21 Mar 2023 02:12

Tgt Ion:264 Resp: 1571102
Ion Ratio Lower Upper
264 100
260 23.8 18.7 28.1
265 23.2 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.960 ng

RT: 26.497 min Scan# 3946

Delta R.T. -0.023 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-2

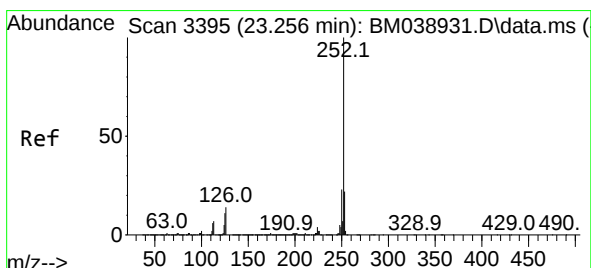
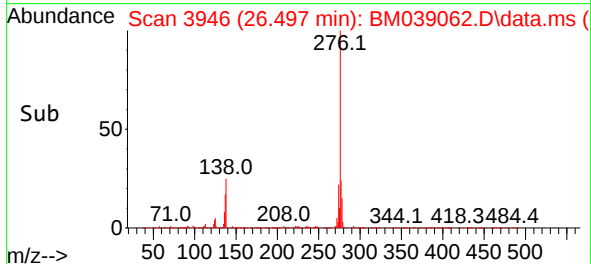
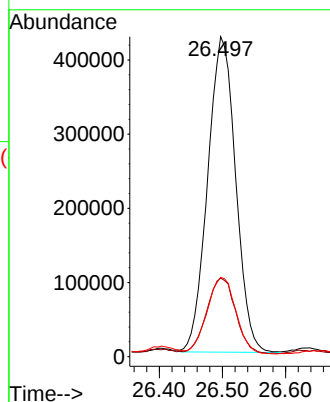
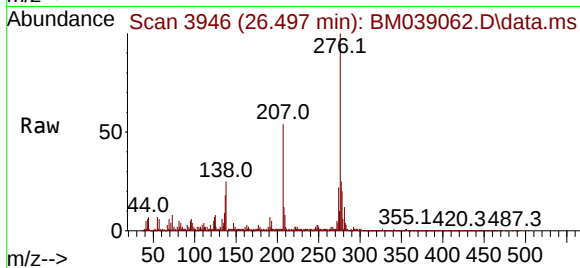
Tgt Ion:276 Resp: 1310235

Ion Ratio Lower Upper

276 100

138 24.8 22.1 33.1

277 25.2 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 34.548 ng

RT: 23.227 min Scan# 3390

Delta R.T. -0.012 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

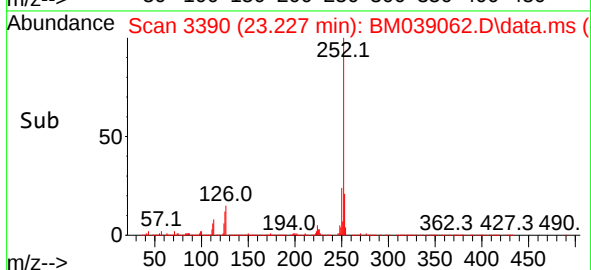
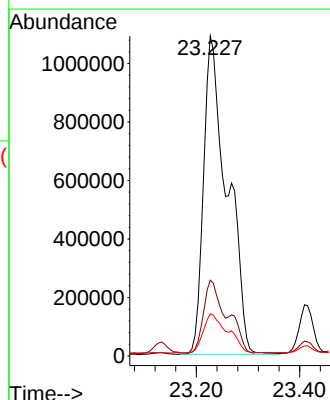
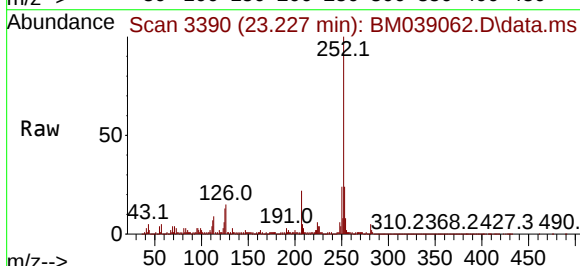
Tgt Ion:252 Resp: 3467628

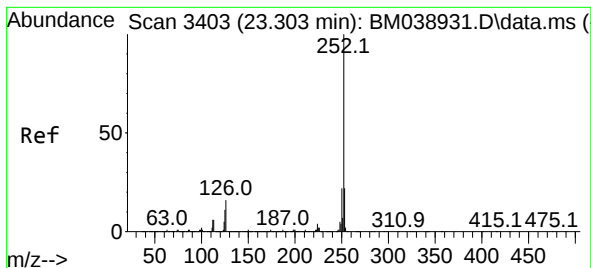
Ion Ratio Lower Upper

252 100

253 23.7 17.6 26.4

125 13.2 8.8 13.2





#89

Benzo(k)fluoranthene

Concen: 33.196 ng

RT: 23.227 min Scan# 31

Delta R.T. -0.059 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-2

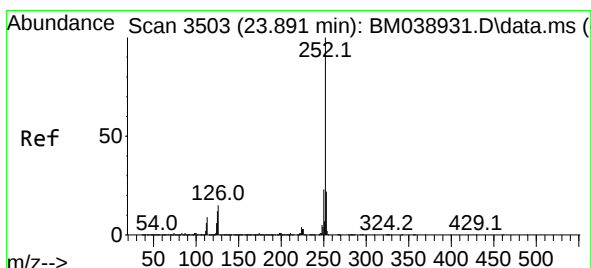
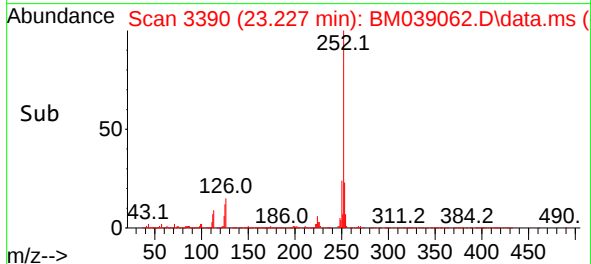
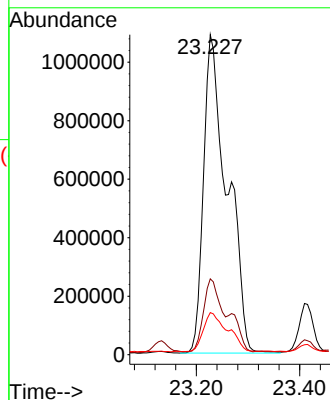
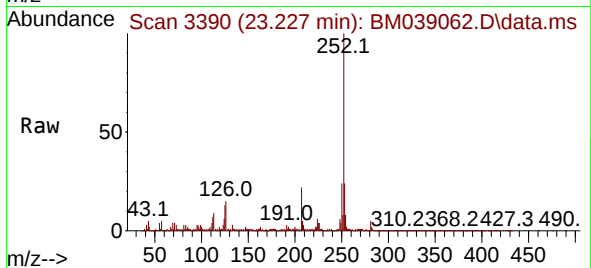
Tgt Ion:252 Resp: 3467628

Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

125 13.2 8.9 13.3



#90

Benzo(a)pyrene

Concen: 18.528 ng

RT: 23.862 min Scan# 3498

Delta R.T. -0.012 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

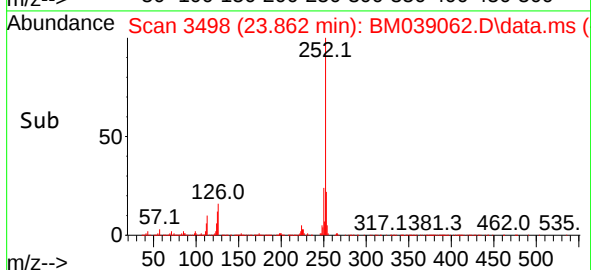
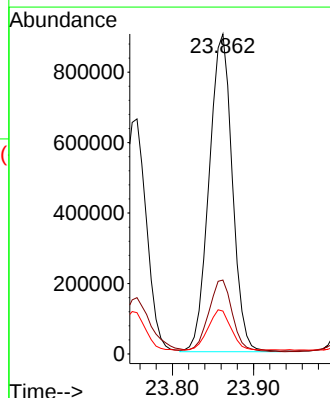
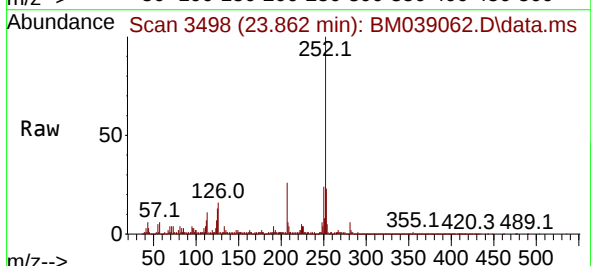
Tgt Ion:252 Resp: 1789791

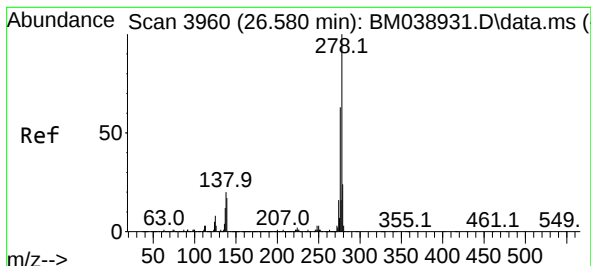
Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

125 13.4 9.8 14.8





#91

Dibenzo(a,h)anthracene

Concen: 3.297 ng

RT: 26.509 min Scan# 3948

Delta R.T. -0.029 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-2

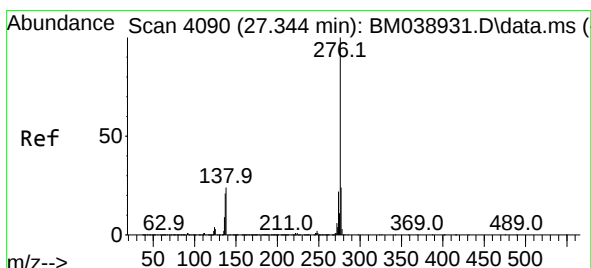
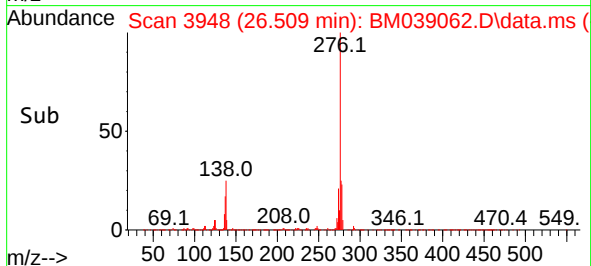
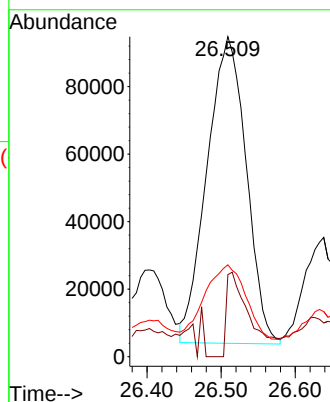
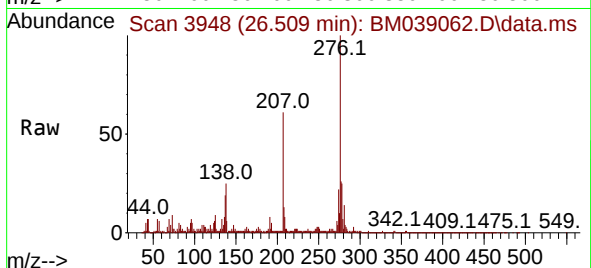
Tgt Ion:278 Resp: 333829

Ion Ratio Lower Upper

278 100

139 25.7 13.7 20.5#

279 28.7 18.9 28.3#



#92

Benzo(g,h,i)perylene

Concen: 13.514 ng

RT: 27.280 min Scan# 4079

Delta R.T. -0.023 min

Lab File: BM039062.D

Acq: 21 Mar 2023 02:12

Tgt Ion:276 Resp: 1338643

Ion Ratio Lower Upper

276 100

277 24.7 19.3 28.9

138 25.2 19.0 28.6

