

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042518.D
 Acq On : 31 Oct 2023 19:34
 Operator : MA/JU
 Sample : 04938-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-2(0-2)

Quant Time: Nov 01 01:49:07 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 02:55:18 2023
 Response via : Initial Calibration

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

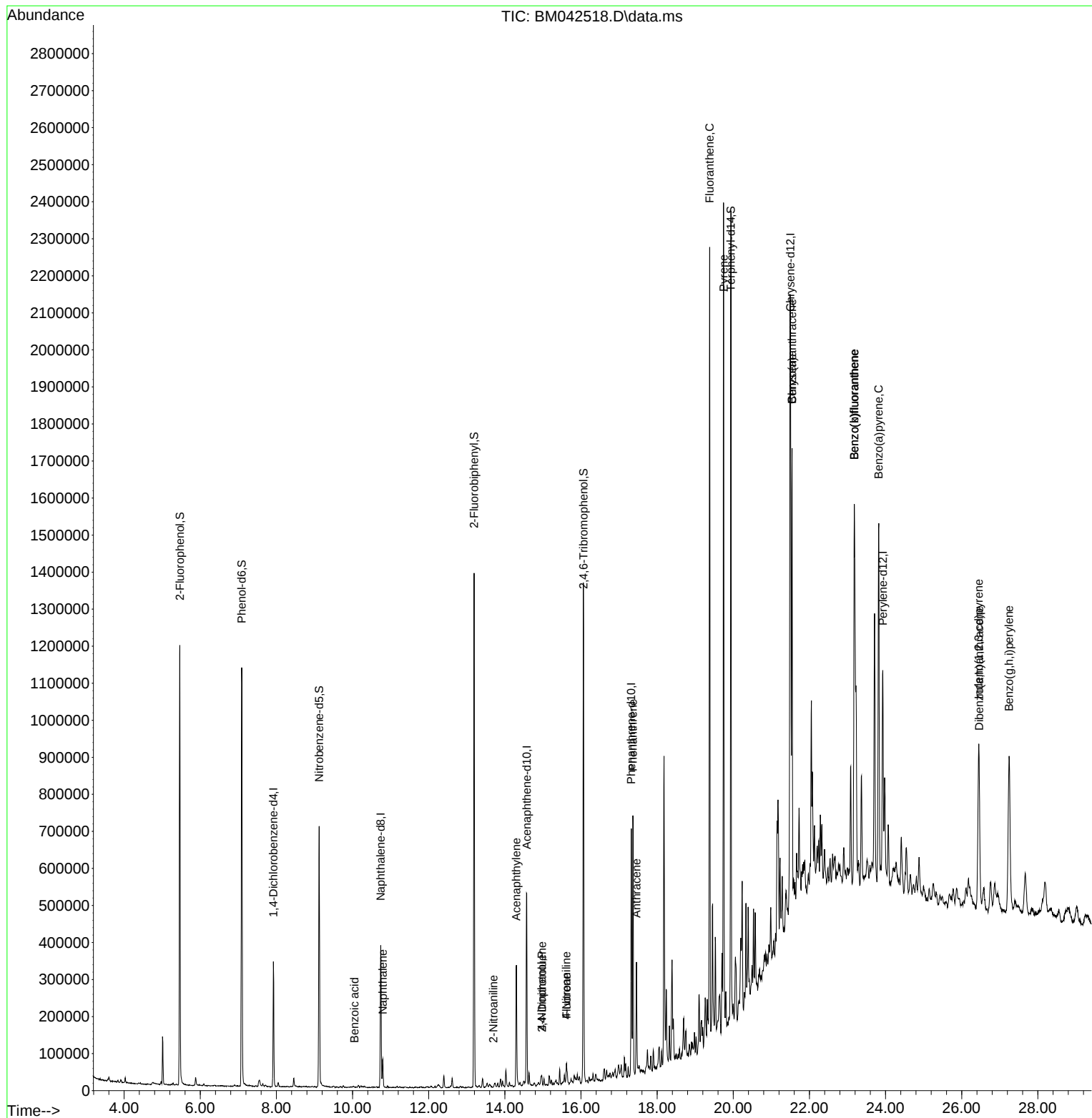
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	77998	20.000	ng	0.00
21) Naphthalene-d8	10.739	136	281689	20.000	ng	-0.01
39) Acenaphthene-d10	14.574	164	162902	20.000	ng	0.00
64) Phenanthrene-d10	17.321	188	355569	20.000	ng	0.00
76) Chrysene-d12	21.503	240	387329	20.000	ng	0.00
86) Perylene-d12	23.927	264	427906	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	445046	92.086	ng	0.00
7) Phenol-d6	7.087	99	568489	85.768	ng	-0.01
23) Nitrobenzene-d5	9.122	82	382200	63.250	ng	-0.01
42) 2,4,6-Tribromophenol	16.068	330	198467	93.316	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	619705	51.189	ng	0.00
79) Terphenyl-d14	19.939	244	924223	40.460	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.792	128	53284	3.661	ng	99
32) Benzoic acid	10.051	122	60	4.128	ng	# 58
48) 2-Nitroaniline	13.698	65	62	4.366	ng	# 13
49) Acenaphthylene	14.304	152	235449	15.562	ng	99
56) 4-Nitrophenol	14.969	139	5243	9.053	ng	# 1
57) 2,4-Dinitrotoluene	14.974	165	332	4.051	ng	# 1
58) Fluorene	15.621	166	30451	2.521	ng	99
62) 4-Nitroaniline	15.616	138	233	5.821	ng	# 12
71) Phenanthrene	17.362	178	384821	20.710	ng	99
72) Anthracene	17.457	178	170621	9.270	ng	100
75) Fluoranthene	19.380	202	1126249	51.598	ng	99
78) Pyrene	19.745	202	1209811	45.488	ng	99
81) Benzo(a)anthracene	21.545	228	599323	24.319	ng	93
83) Chrysene	21.545	228	599323	23.941	ng	96
87) Indeno(1,2,3-cd)pyrene	26.450	276	449644	17.655	ng	# 93
88) Benzo(b)fluoranthene	23.180	252	948996	39.808	ng	99
89) Benzo(k)fluoranthene	23.180	252	948996	35.724	ng	99
90) Benzo(a)pyrene	23.821	252	728127	31.023	ng	98
91) Dibenzo(a,h)anthracene	26.462	278	114520	8.589	ng	# 79
92) Benzo(g,h,i)perylene	27.244	276	464836	20.709	ng	97

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

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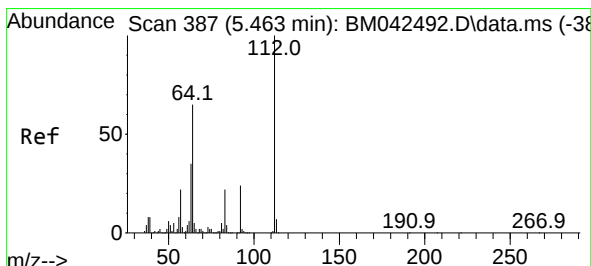
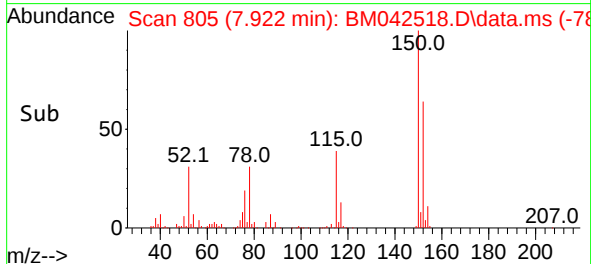
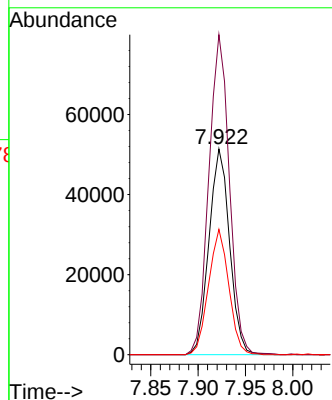
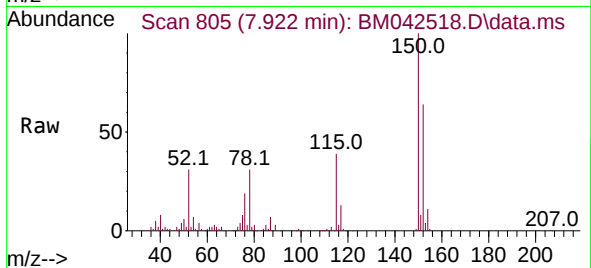




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

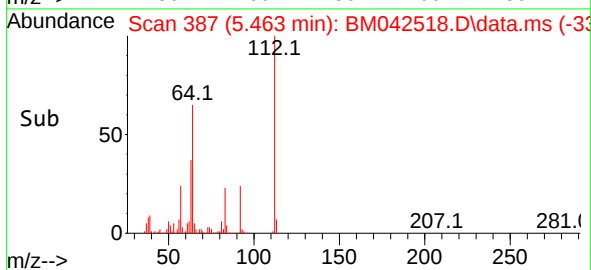
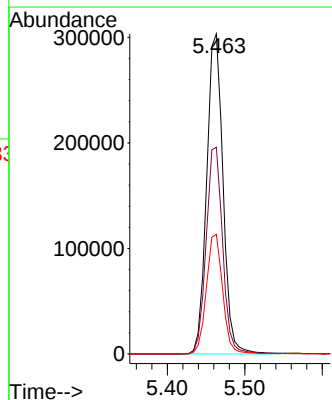
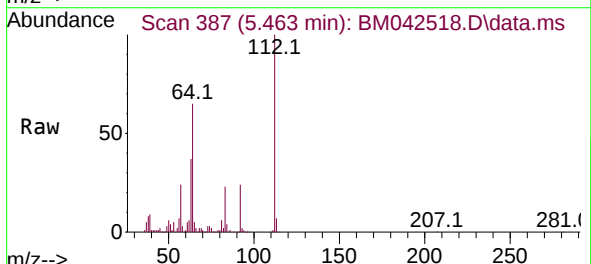
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

Tgt Ion:152 Resp: 77998
Ion Ratio Lower Upper
152 100
150 155.5 127.4 191.0
115 60.9 47.9 71.9



#5
2-Fluorophenol
Concen: 92.086 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion:112 Resp: 445046
Ion Ratio Lower Upper
112 100
64 64.6 52.1 78.1
63 37.4 28.3 42.5

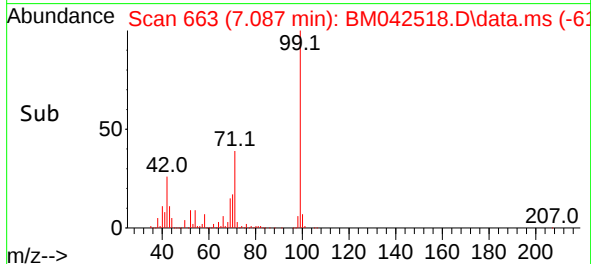
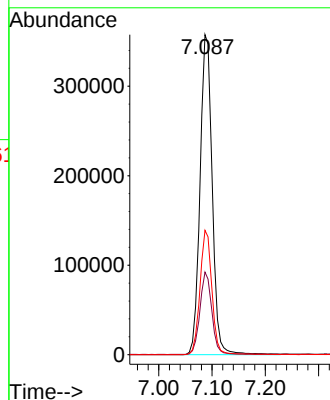
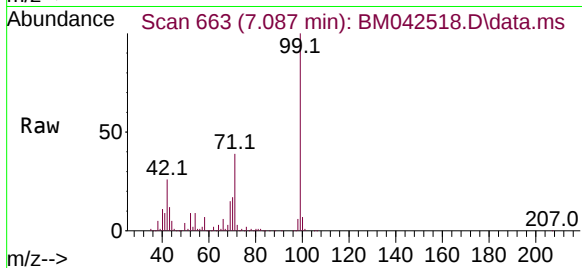




#7
Phenol-d6
Concen: 85.768 ng
RT: 7.087 min Scan# 60
Delta R.T. -0.012 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

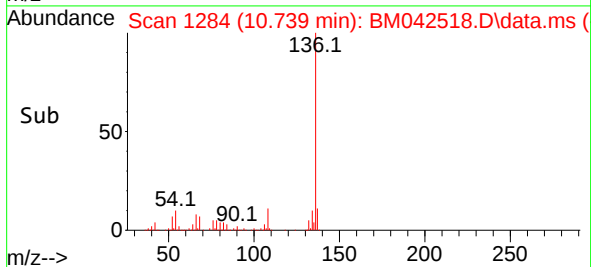
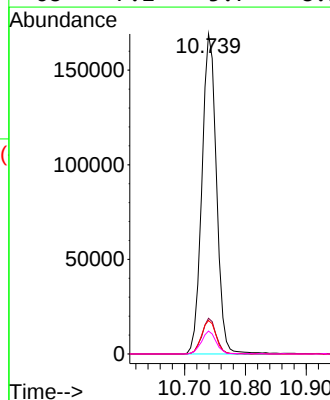
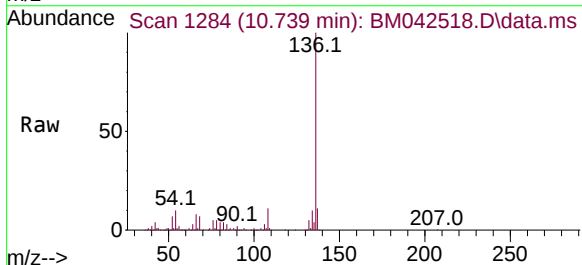
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

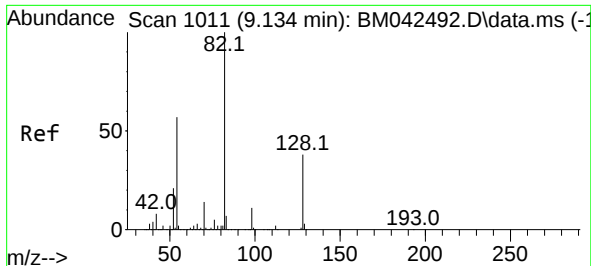
Tgt Ion: 99 Resp: 568489
Ion Ratio Lower Upper
99 100
42 25.8 18.7 28.1
71 38.8 29.1 43.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.012 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion: 136 Resp: 281689
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.6
54 10.5 8.0 12.0
68 7.2 5.7 8.5

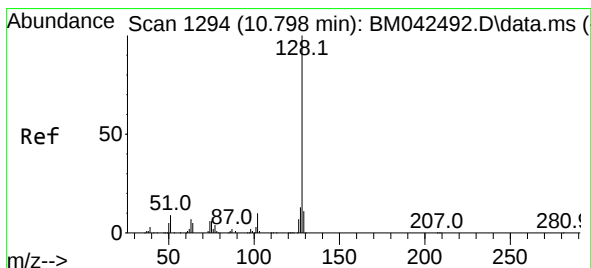
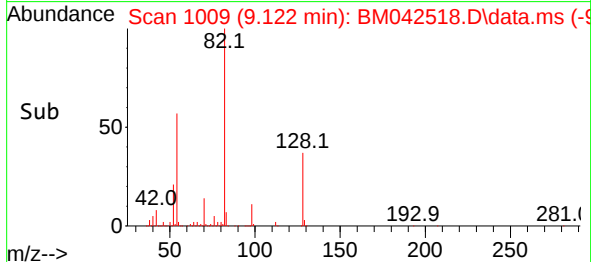
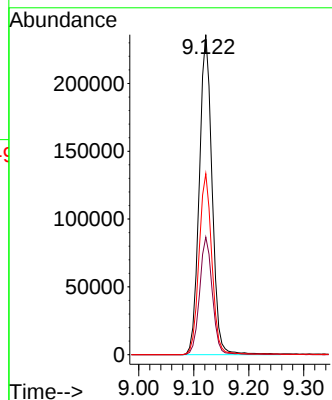
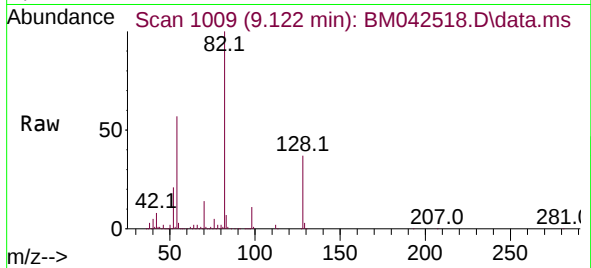




#23
Nitrobenzene-d5
Concen: 63.250 ng
RT: 9.122 min Scan# 1011
Delta R.T. -0.012 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

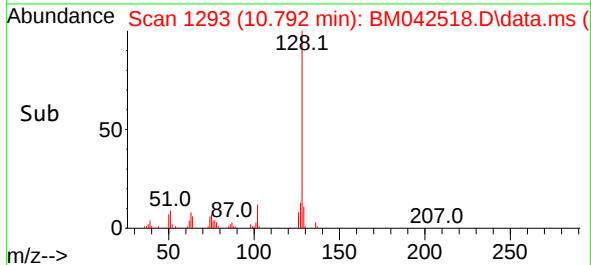
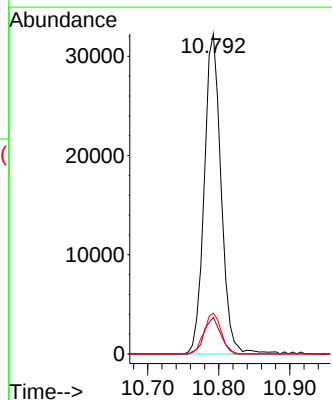
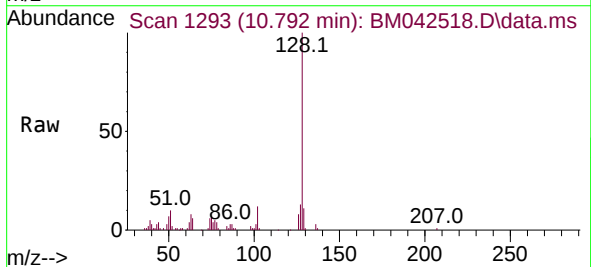
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

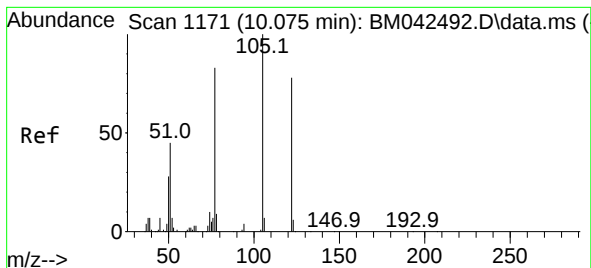
Tgt Ion: 82 Resp: 382200
Ion Ratio Lower Upper
82 100
128 36.7 30.7 46.1
54 56.6 45.3 67.9



#31
Naphthalene
Concen: 3.661 ng
RT: 10.792 min Scan# 1293
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion: 128 Resp: 53284
Ion Ratio Lower Upper
128 100
129 11.4 8.8 13.2
127 12.7 10.6 15.8





#32

Benzoic acid

Concen: 4.128 ng

RT: 10.051 min Scan# 1167

Delta R.T. -0.024 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

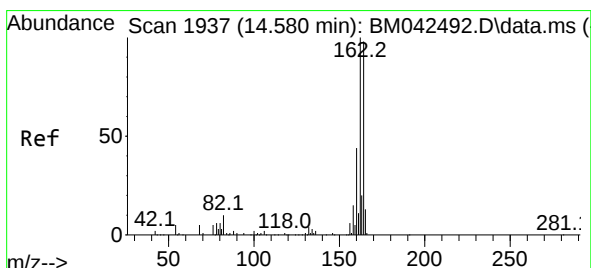
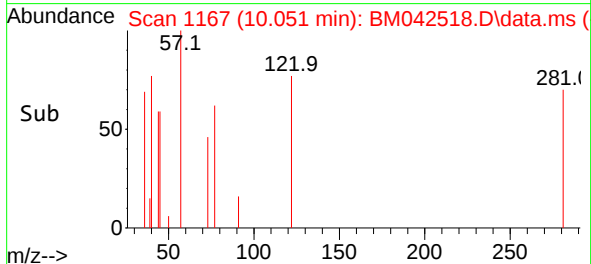
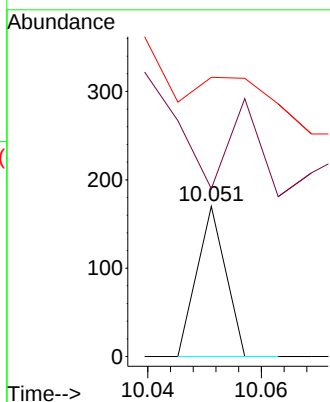
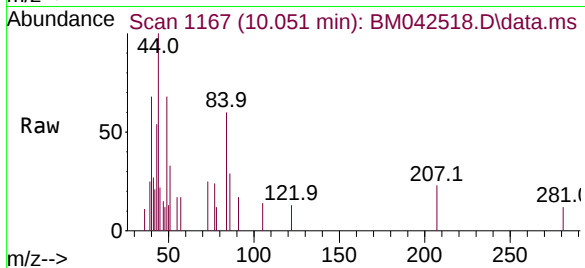
Tgt Ion:122 Resp: 60

Ion Ratio Lower Upper

122 100

105 111.8 105.2 145.2

77 185.9 84.8 124.8#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.574 min Scan# 1936

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

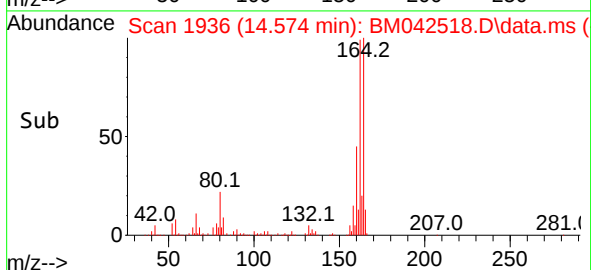
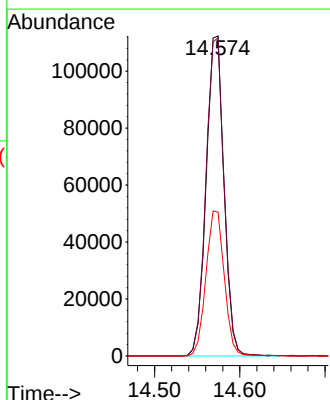
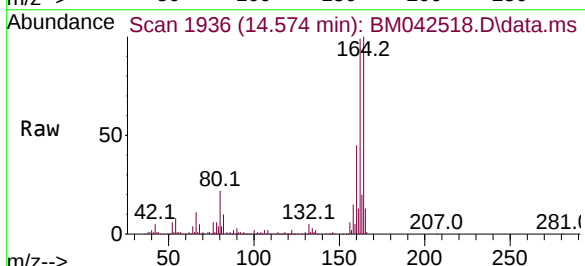
Tgt Ion:164 Resp: 162902

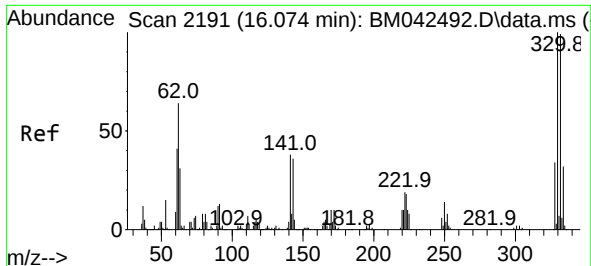
Ion Ratio Lower Upper

164 100

162 99.4 81.6 122.4

160 45.0 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 93.316 ng

RT: 16.068 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

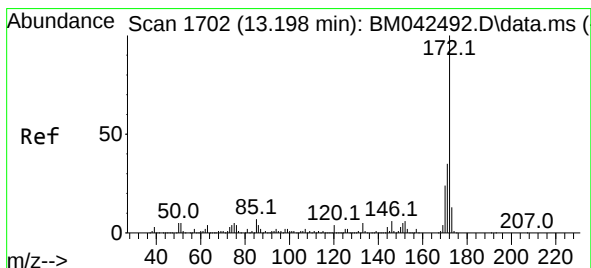
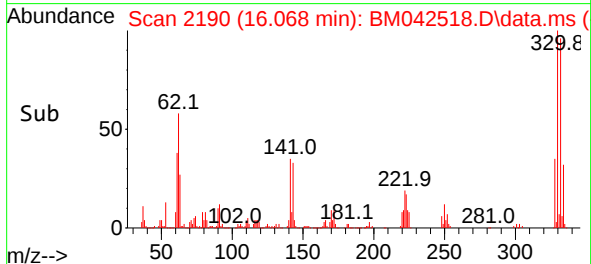
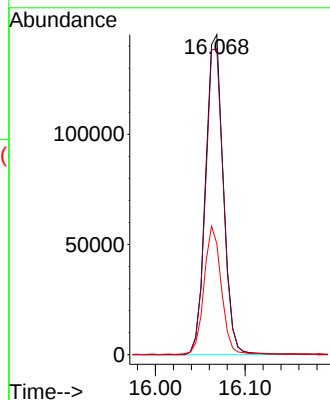
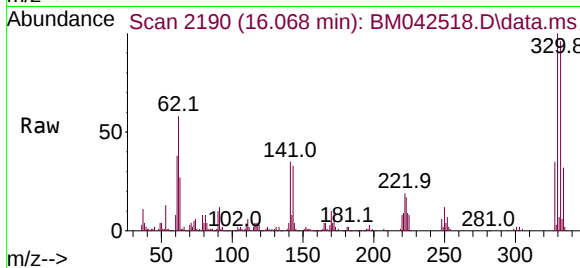
Tgt Ion:330 Resp: 198467

Ion Ratio Lower Upper

330 100

332 97.7 78.8 118.2

141 39.8 31.1 46.7



#45

2-Fluorobiphenyl

Concen: 51.189 ng

RT: 13.192 min Scan# 1701

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

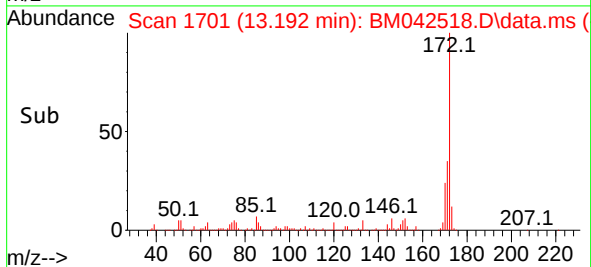
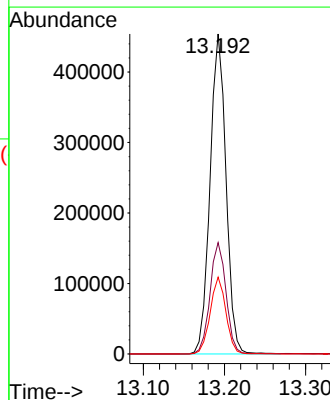
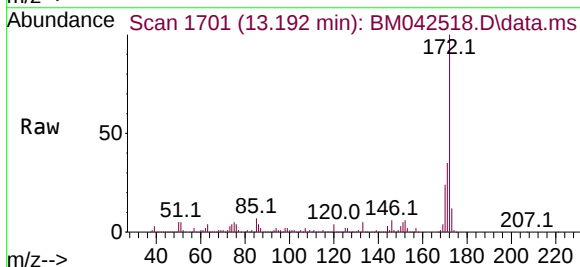
Tgt Ion:172 Resp: 619705

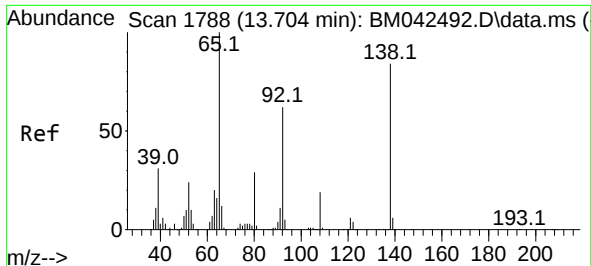
Ion Ratio Lower Upper

172 100

171 34.8 28.2 42.2

170 24.0 19.0 28.4

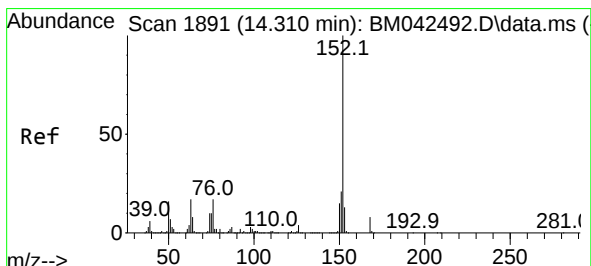
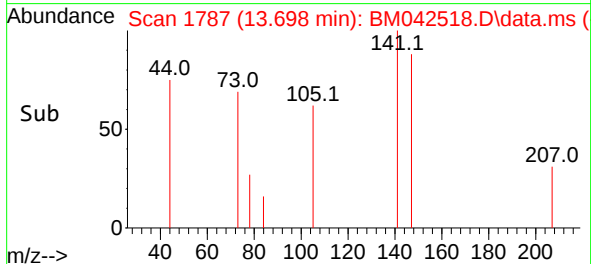
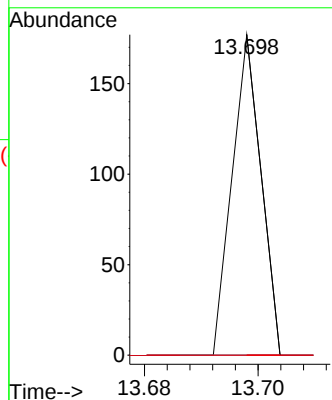
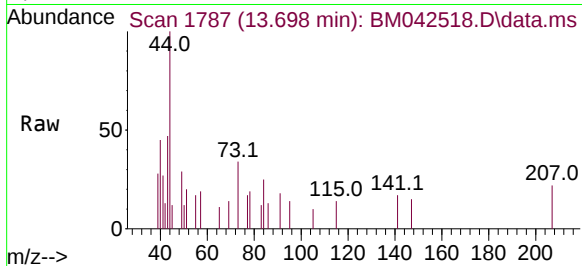




#48
2-Nitroaniline
Concen: 4.366 ng
RT: 13.698 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

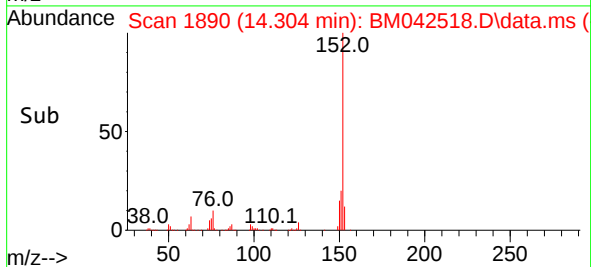
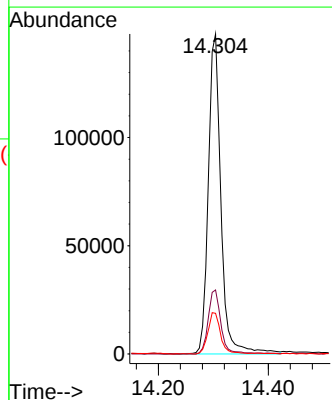
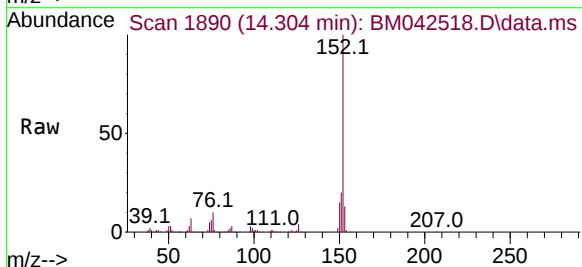
Instrument :
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ClientSampleId :
A-2(0-2)

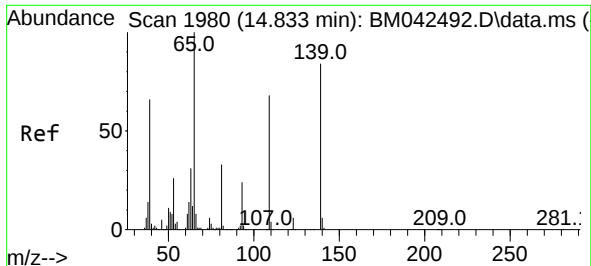
Tgt Ion: 65 Resp: 62
Ion Ratio Lower Upper
65 100
92 0.0 49.4 74.2#
138 0.0 66.9 100.3#



#49
Acenaphthylene
Concen: 15.562 ng
RT: 14.304 min Scan# 1890
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion: 152 Resp: 235449
Ion Ratio Lower Upper
152 100
151 20.0 16.4 24.6
153 12.7 10.4 15.6

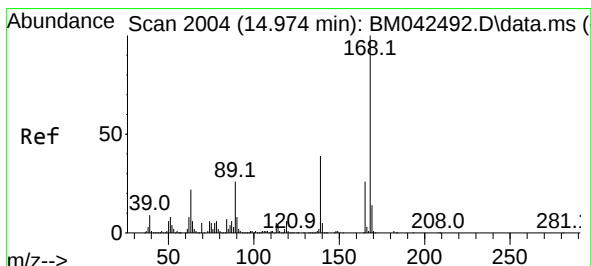
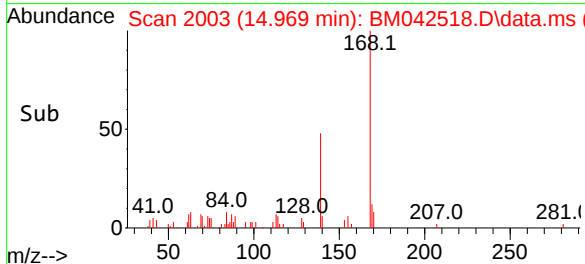
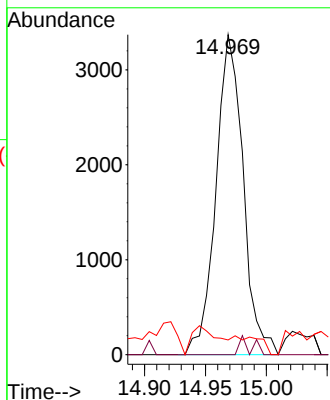
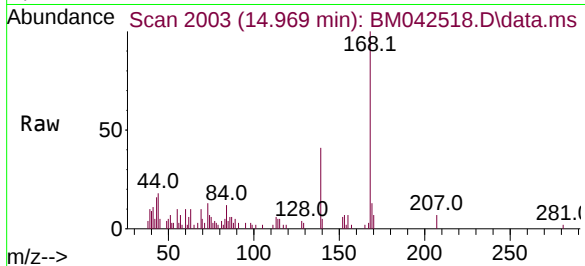




#56
4-Nitrophenol
Concen: 9.053 ng
RT: 14.969 min Scan# 2003
Delta R.T. 0.136 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

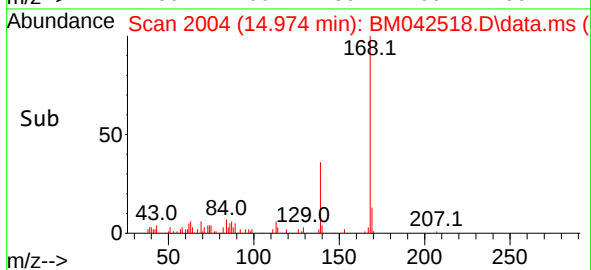
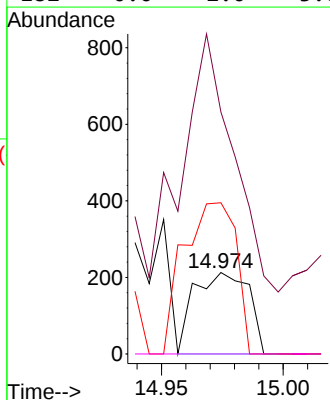
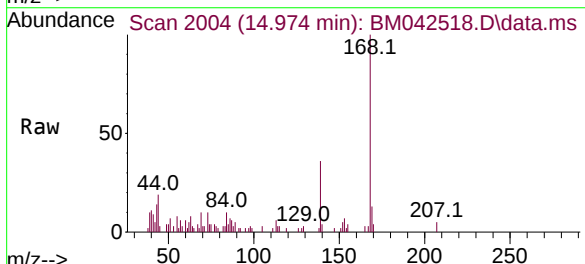
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

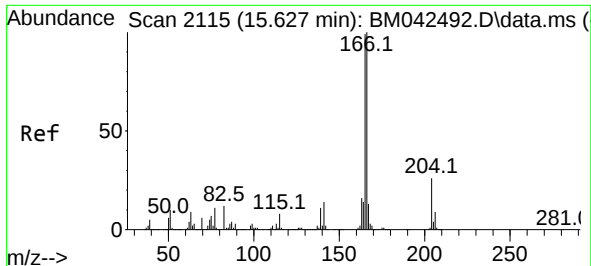
Tgt Ion:139 Resp: 5243
Ion Ratio Lower Upper
139 100
109 0.0 61.3 101.3#
65 4.6 100.2 140.2#



#57
2,4-Dinitrotoluene
Concen: 4.051 ng
RT: 14.974 min Scan# 2004
Delta R.T. 0.000 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion:165 Resp: 332
Ion Ratio Lower Upper
165 100
63 296.7 66.7 100.1#
89 185.4 80.2 120.4#
182 0.0 2.0 3.0#

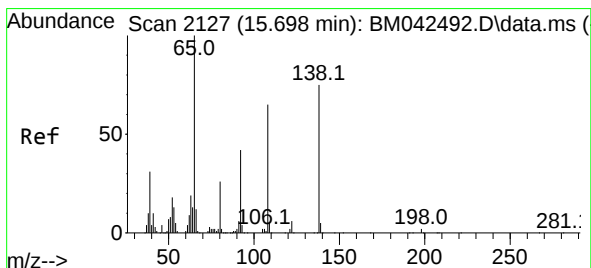
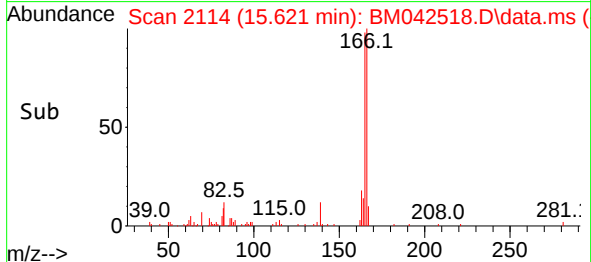
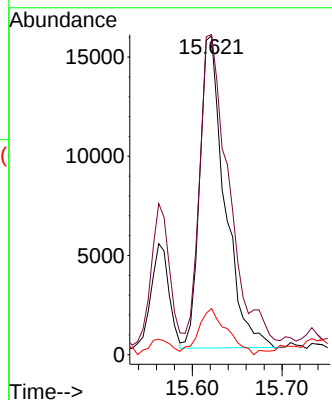
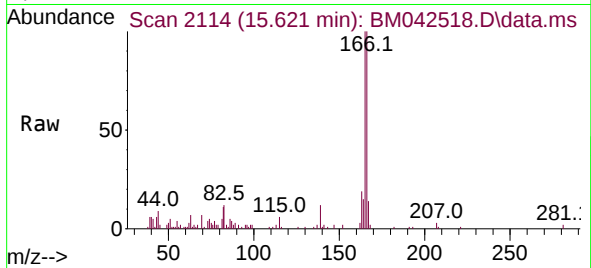




#58
Fluorene
Concen: 2.521 ng
RT: 15.621 min Scan# 2113
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

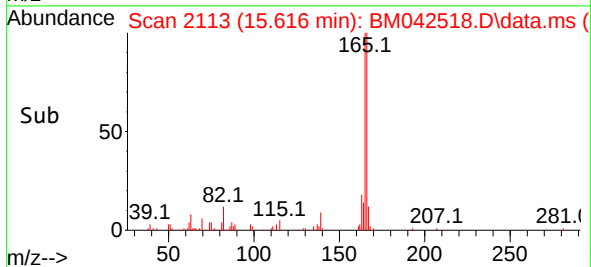
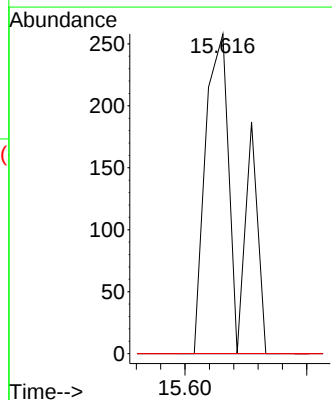
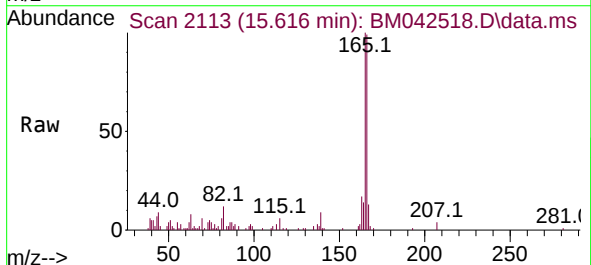
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

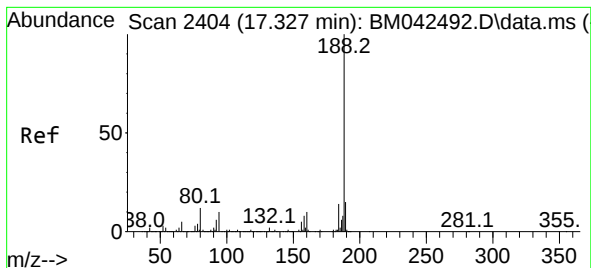
Tgt Ion:166 Resp: 30451
Ion Ratio Lower Upper
166 100
165 100.3 79.3 118.9
167 14.5 10.5 15.7



#62
4-Nitroaniline
Concen: 5.821 ng
RT: 15.616 min Scan# 2113
Delta R.T. -0.082 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion:138 Resp: 233
Ion Ratio Lower Upper
138 100
92 0.0 37.0 77.0#
108 0.0 67.2 107.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.321 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

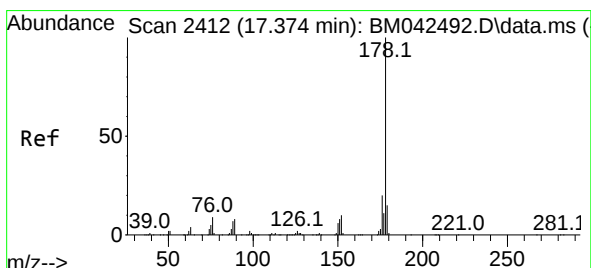
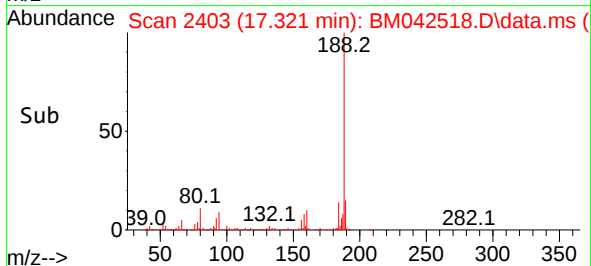
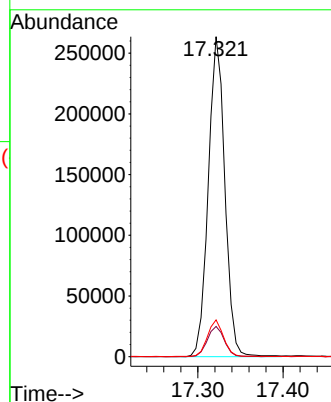
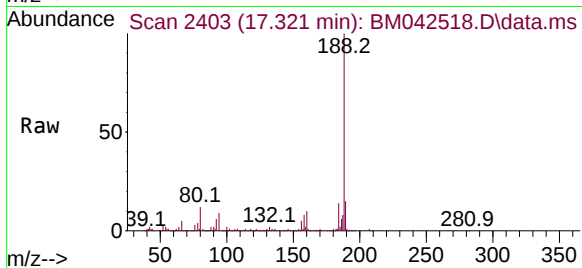
Tgt Ion:188 Resp: 355569

Ion Ratio Lower Upper

188 100

94 9.4 8.2 12.4

80 11.5 9.4 14.2



#71

Phenanthrene

Concen: 20.710 ng

RT: 17.362 min Scan# 2410

Delta R.T. -0.012 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

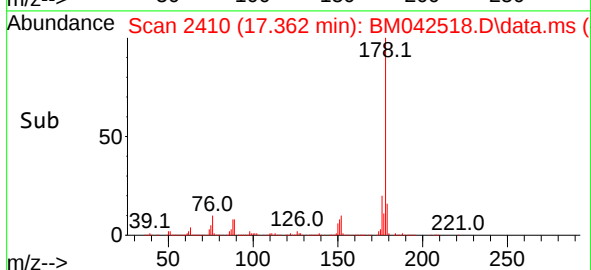
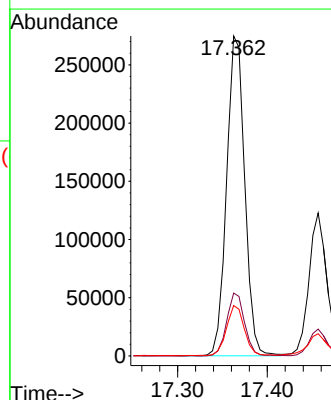
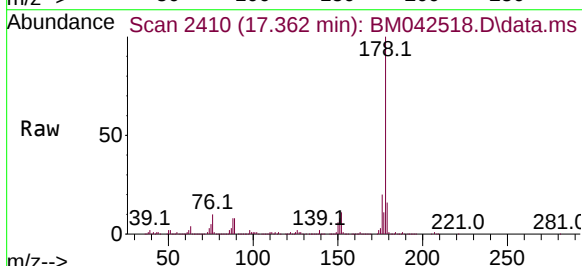
Tgt Ion:178 Resp: 384821

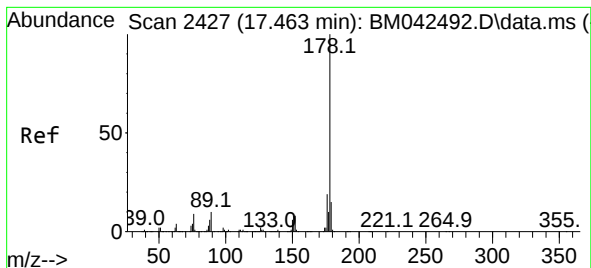
Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

179 15.7 12.2 18.4





#72

Anthracene

Concen: 9.270 ng

RT: 17.457 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

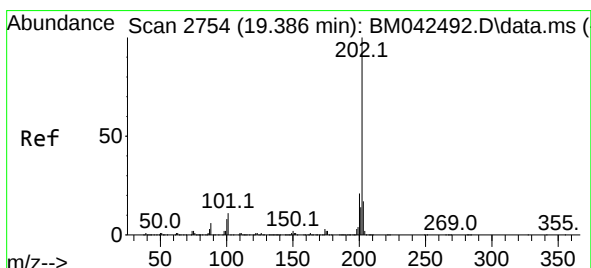
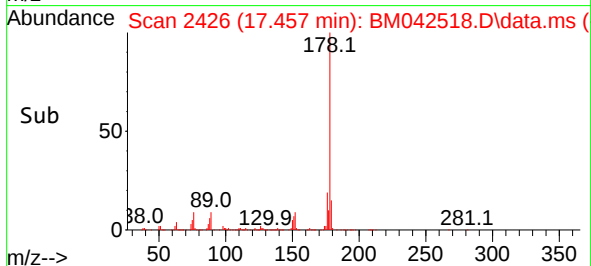
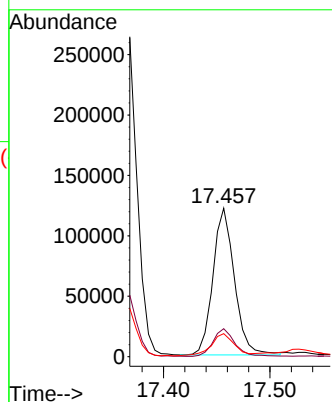
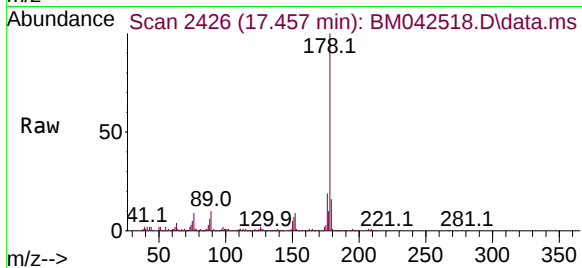
Tgt Ion:178 Resp: 170621

Ion Ratio Lower Upper

178 100

176 18.8 15.2 22.8

179 15.5 12.3 18.5



#75

Fluoranthene

Concen: 51.598 ng

RT: 19.380 min Scan# 2753

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

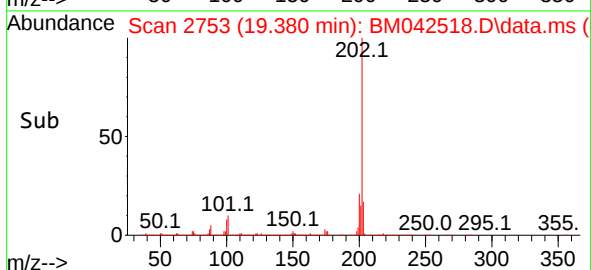
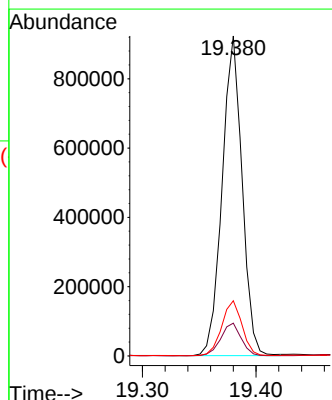
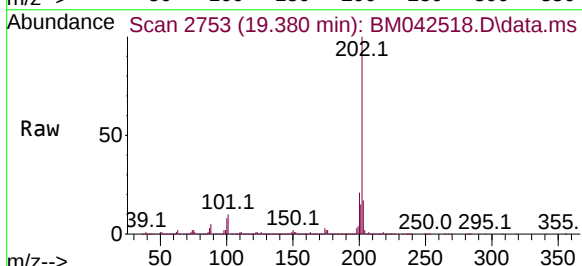
Tgt Ion:202 Resp: 1126249

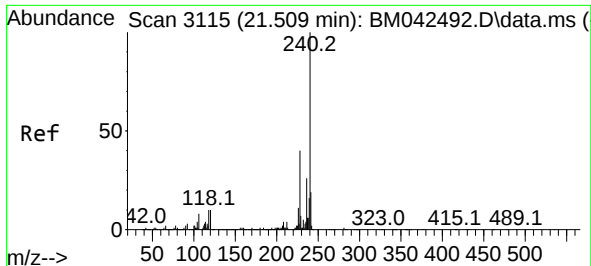
Ion Ratio Lower Upper

202 100

101 10.2 0.0 30.5

203 17.3 0.0 37.0

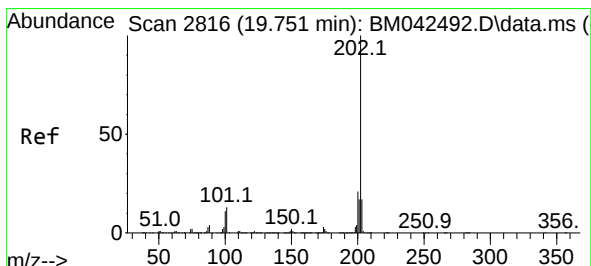
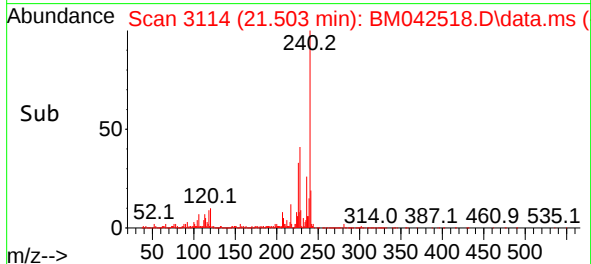
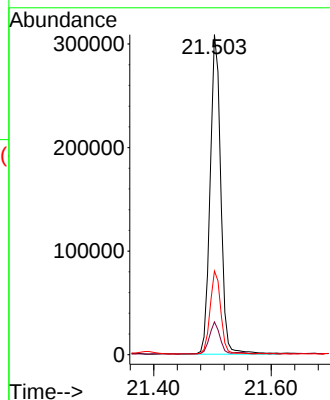
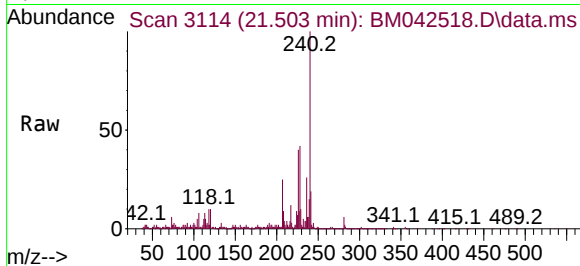




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.503 min Scan# 3115
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

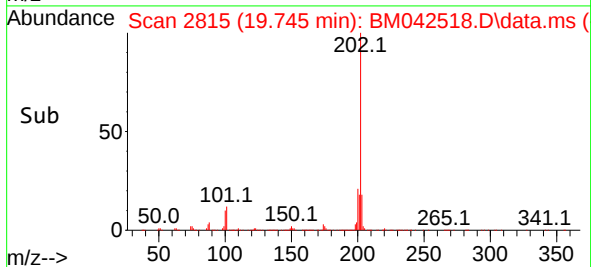
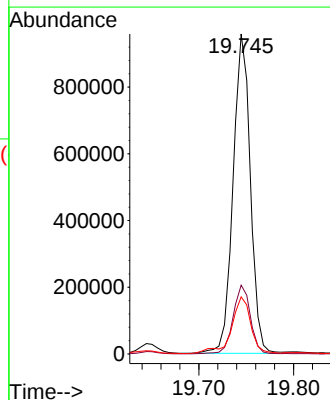
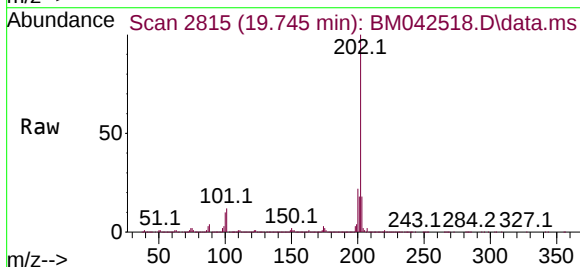
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

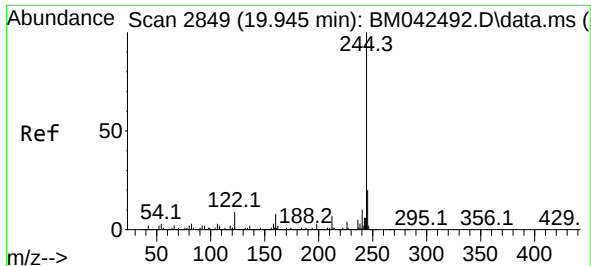
Tgt Ion:240 Resp: 387329
Ion Ratio Lower Upper
240 100
120 10.3 8.3 12.5
236 26.2 20.8 31.2



#78
Pyrene
Concen: 45.488 ng
RT: 19.745 min Scan# 2815
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion:202 Resp: 1209811
Ion Ratio Lower Upper
202 100
200 21.5 16.9 25.3
203 17.8 13.7 20.5

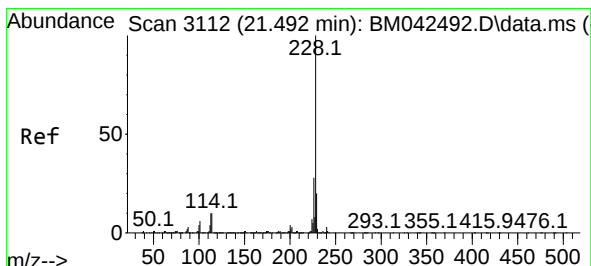
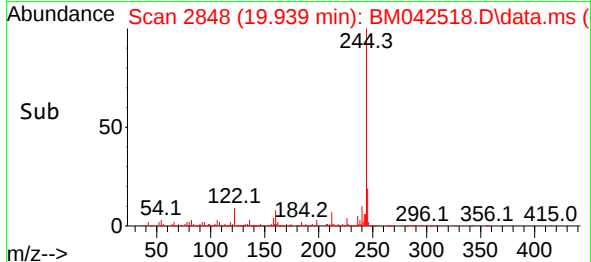
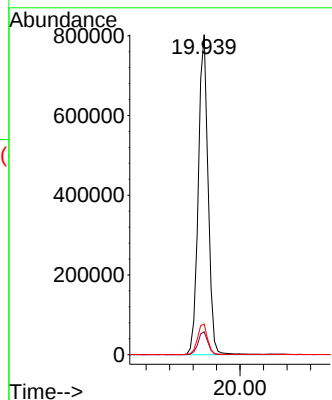
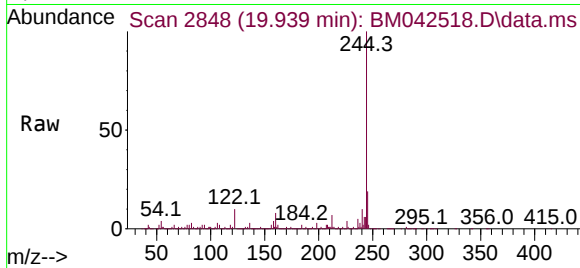




#79
 Terphenyl-d14
 Concen: 40.460 ng
 RT: 19.939 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM042518.D
 Acq: 31 Oct 2023 19:34

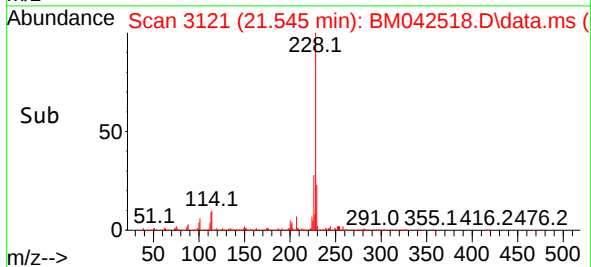
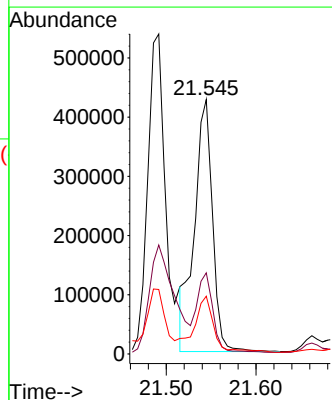
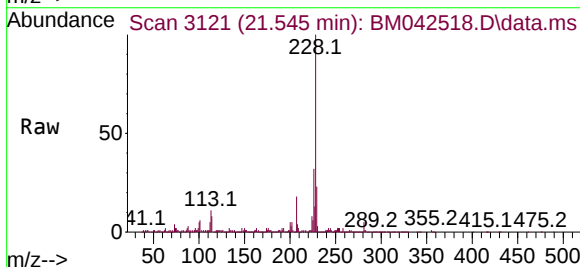
Instrument :
 BNA_M
 ClientSampleId :
 A-2(0-2)

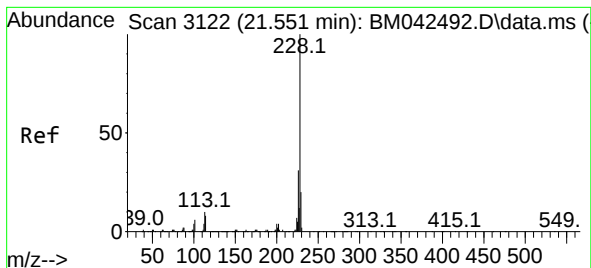
Tgt Ion:244 Resp: 924223
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.4 8.2
 122 9.5 7.2 10.8



#81
 Benzo(a)anthracene
 Concen: 24.319 ng
 RT: 21.545 min Scan# 3121
 Delta R.T. 0.053 min
 Lab File: BM042518.D
 Acq: 31 Oct 2023 19:34

Tgt Ion:228 Resp: 599323
 Ion Ratio Lower Upper
 228 100
 226 31.9 22.3 33.5
 229 22.7 15.8 23.8





#83

Chrysene

Concen: 23.941 ng

RT: 21.545 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

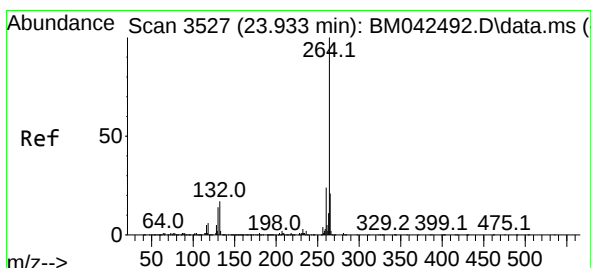
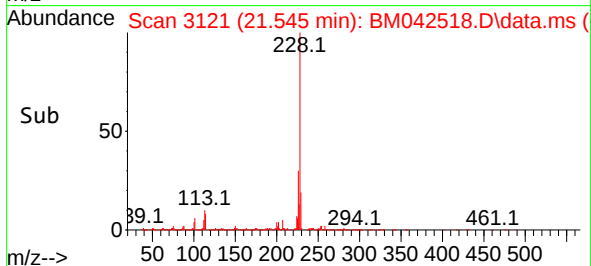
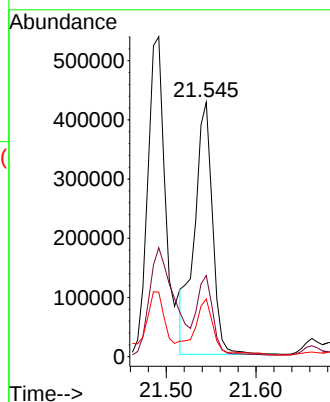
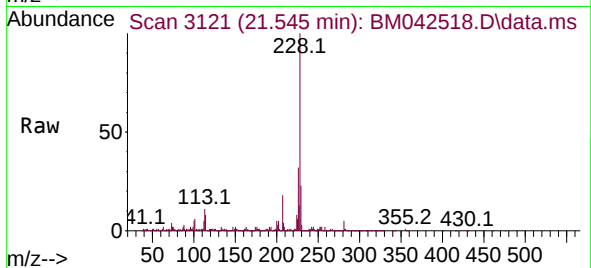
Tgt Ion:228 Resp: 599323

Ion Ratio Lower Upper

228 100

226 31.9 24.4 36.6

229 22.7 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3526

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

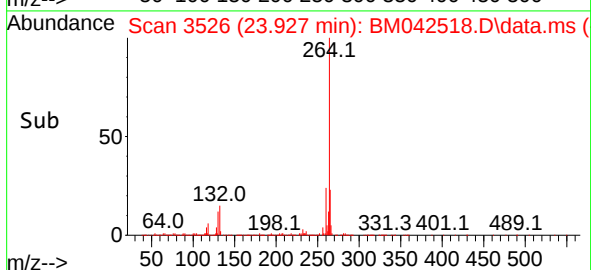
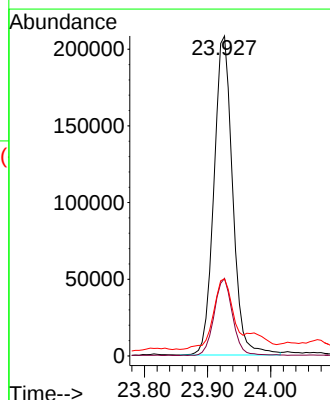
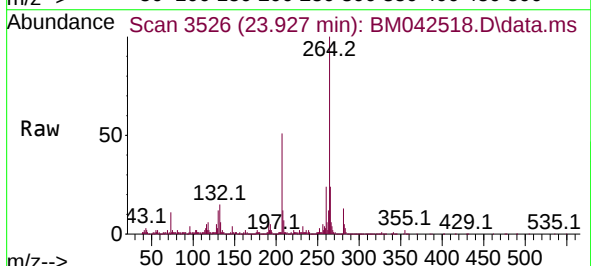
Tgt Ion:264 Resp: 427906

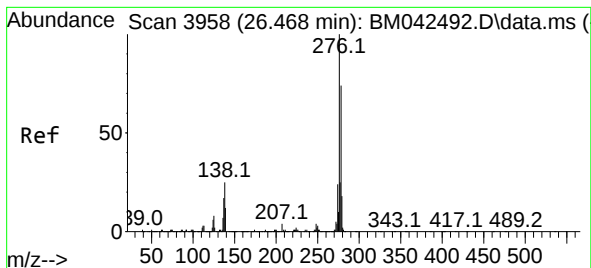
Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.4

265 24.1 18.7 28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 17.655 ng

RT: 26.450 min Scan# 31

Delta R.T. -0.018 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

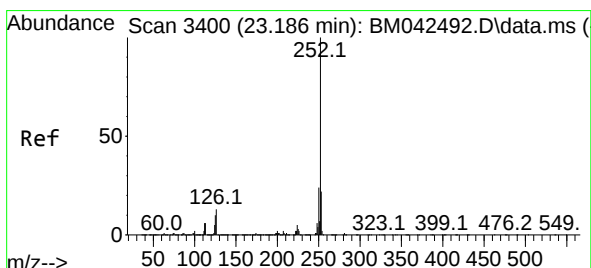
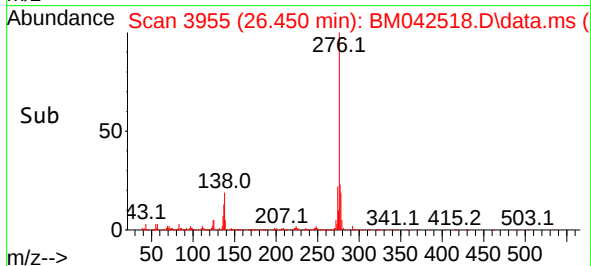
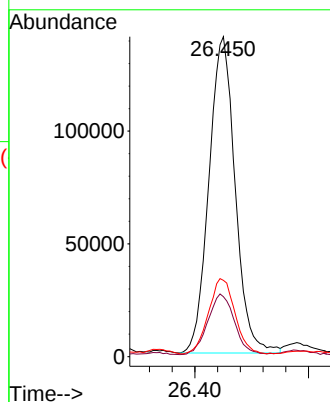
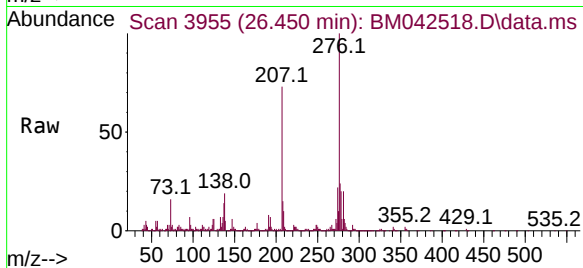
Tgt Ion:276 Resp: 449644

Ion Ratio Lower Upper

276 100

138 19.3 20.6 31.0#

277 23.9 19.5 29.3



#88

Benzo(b)fluoranthene

Concen: 39.808 ng

RT: 23.180 min Scan# 3399

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

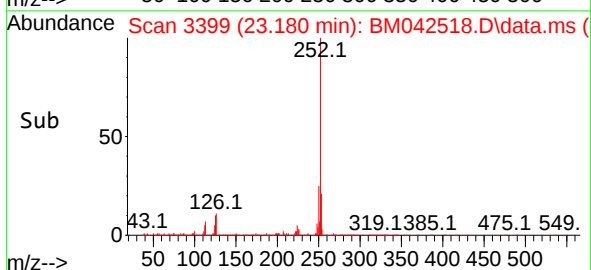
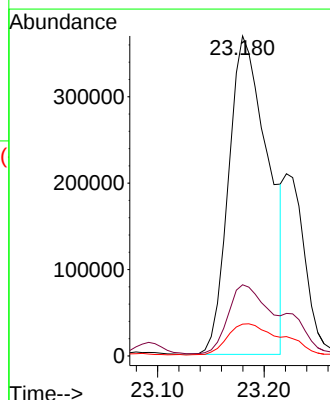
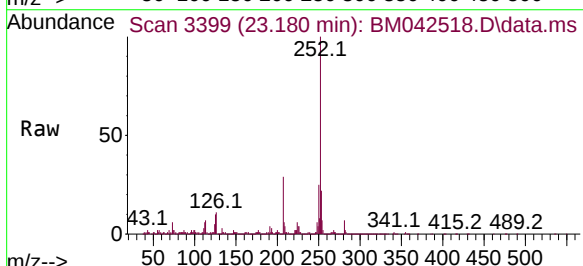
Tgt Ion:252 Resp: 948996

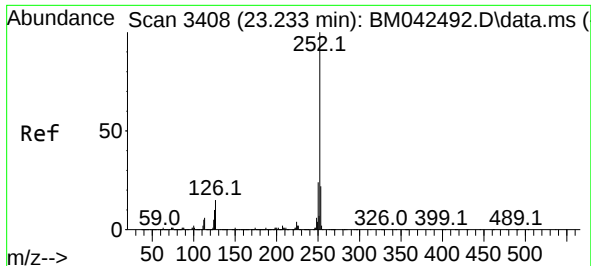
Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

125 9.9 7.8 11.6

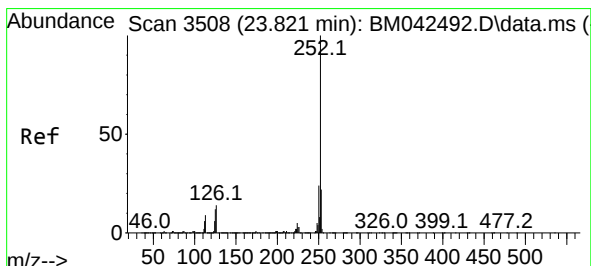
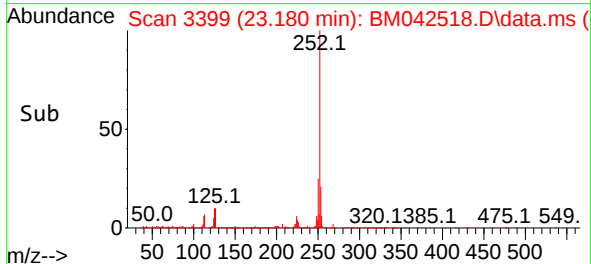
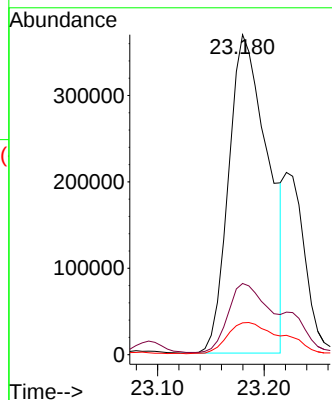
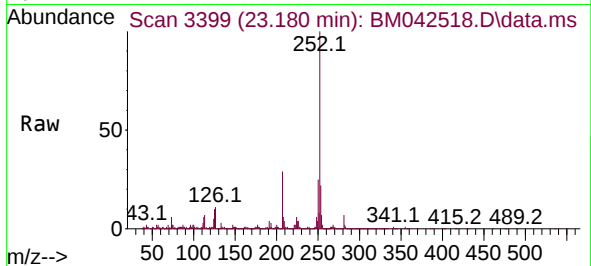




#89
Benzo(k)fluoranthene
Concen: 35.724 ng
RT: 23.180 min Scan# 31
Delta R.T. -0.053 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

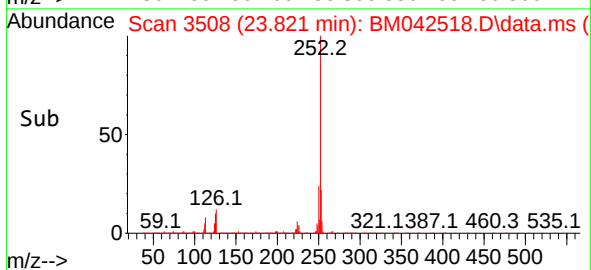
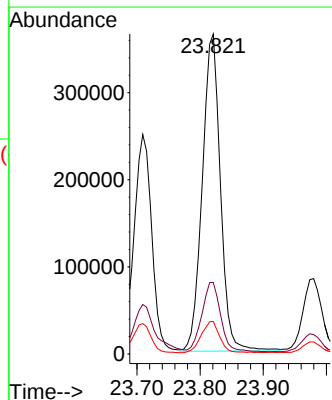
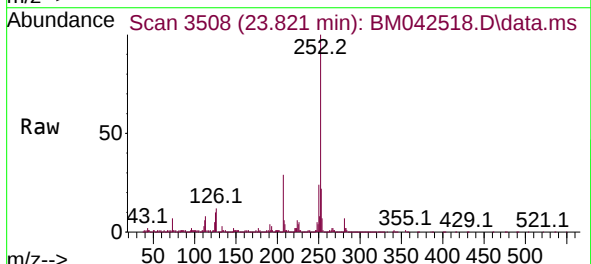
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

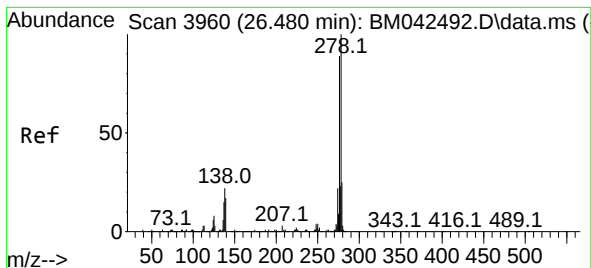
Tgt Ion:252 Resp: 948996
Ion Ratio Lower Upper
252 100
253 22.3 17.6 26.4
125 9.9 8.2 12.4



#90
Benzo(a)pyrene
Concen: 31.023 ng
RT: 23.821 min Scan# 3508
Delta R.T. -0.000 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion:252 Resp: 728127
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.2 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 8.589 ng

RT: 26.462 min Scan# 3957

Delta R.T. -0.018 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

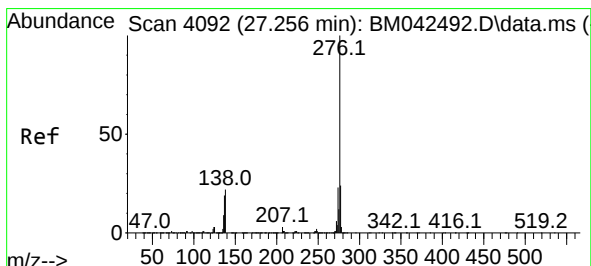
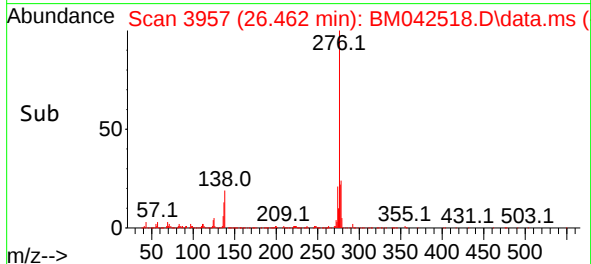
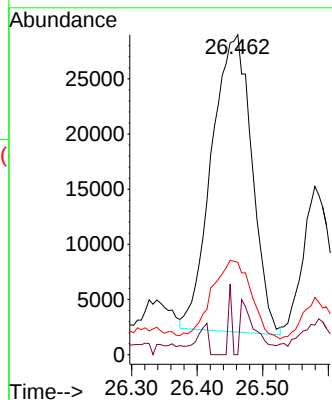
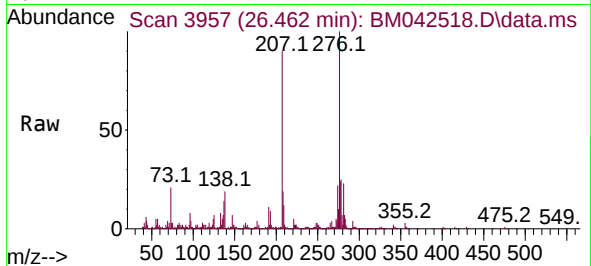
Tgt Ion:278 Resp: 114520

Ion Ratio Lower Upper

278 100

139 0.0 13.4 20.2#

279 28.8 19.7 29.5



#92

Benzo(g,h,i)perylene

Concen: 20.709 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.012 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Tgt Ion:276 Resp: 464836

Ion Ratio Lower Upper

276 100

277 23.4 19.2 28.8

138 19.8 17.3 25.9

