

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041525\
 Data File : BM049941.D
 Acq On : 15 Apr 2025 19:11
 Operator : RC/JU
 Sample : Q1788-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC-1

Quant Time: Apr 16 01:01:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

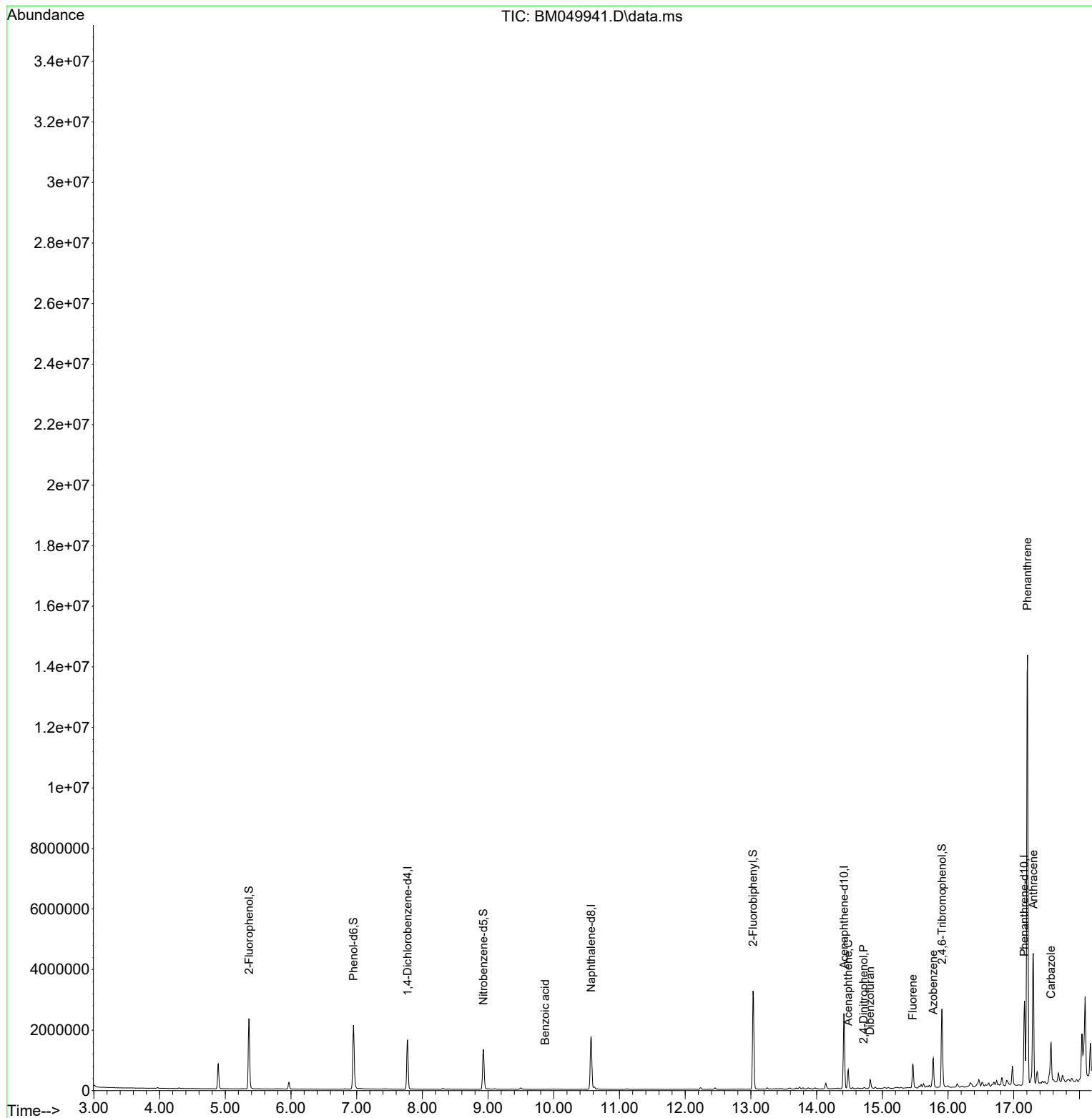
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	478383	20.000	ng	0.00
21) Naphthalene-d8	10.569	136	1555949	20.000	ng	0.00
39) Acenaphthene-d10	14.416	164	906032	20.000	ng	0.00
64) Phenanthrene-d10	17.162	188	1685007	20.000	ng	0.00
76) Chrysene-d12	21.409	240	1845748	20.000	ng	0.00
86) Perylene-d12	24.421	264	1956632	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	1104669	39.212	ng	0.00
7) Phenol-d6	6.951	99	1314008	37.488	ng	0.00
23) Nitrobenzene-d5	8.928	82	783467	28.039	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	524010	39.762	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	1834420	27.455	ng	-0.01
79) Terphenyl-d14	19.786	244	2178193	22.116	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	9.869	122	918	8.576	ng	# 66
52) Acenaphthene	14.480	154	215224	4.388	ng	99
54) 2,4-Dinitrophenol	14.716	184	68	7.231	ng	# 1
55) Dibenzofuran	14.816	168	181248	2.210	ng	99
58) Fluorene	15.463	166	369893	5.675	ng	99
63) Azobenzene	15.774	77	242949	4.629	ng	# 1
71) Phenanthrene	17.210	178	9162448	99.184	ng	99
72) Anthracene	17.298	178	2863787	31.457	ng	100
73) Carbazole	17.568	167	870822	10.156	ng	99
75) Fluoranthene	19.221	202	15313958	134.825	ng	94
78) Pyrene	19.586	202	14510690	114.073	ng	# 86
81) Benzo(a)anthracene	21.392	228	10115109	82.459	ng	96
83) Chrysene	21.450	228	8330628	71.433	ng	96
84) Bis(2-ethylhexyl)phtha...	21.303	149	166610	2.392	ng	# 94
87) Indeno(1,2,3-cd)pyrene	27.826	276	4754174	32.596	ng	# 95
88) Benzo(b)fluoranthene	23.480	252	10989531	87.943	ng	98
89) Benzo(k)fluoranthene	23.480	252	10989531	90.749	ng	98
90) Benzo(a)pyrene	24.286	252	8062902	73.427	ng	97
91) Dibenzo(a,h)anthracene	27.850	278	1232814	10.262	ng	# 92
92) Benzo(g,h,i)perylene	28.891	276	4209900	34.293	ng	98

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

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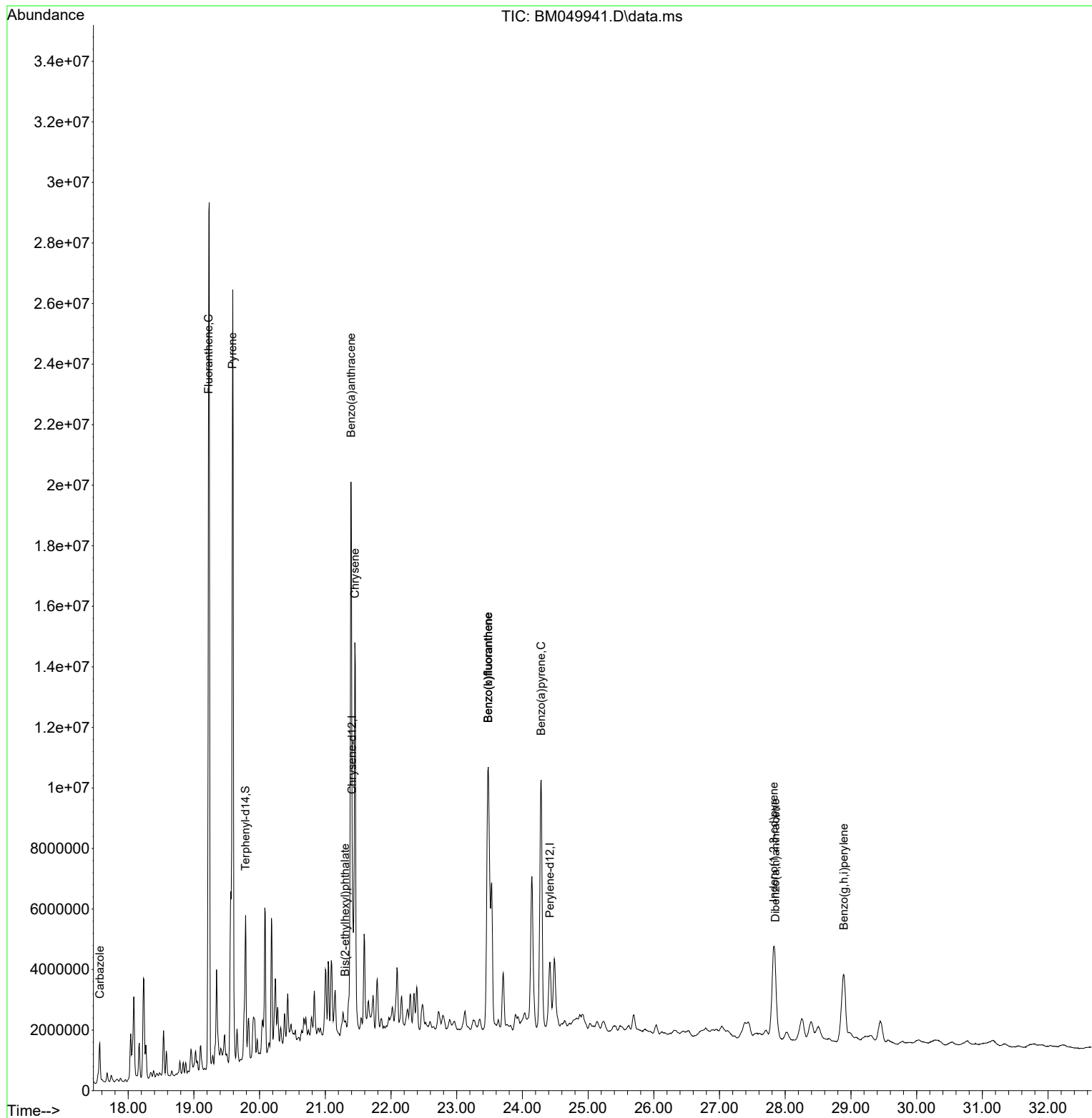
Quant Time: Apr 16 01:01:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

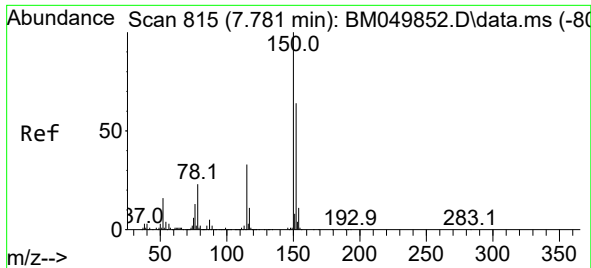


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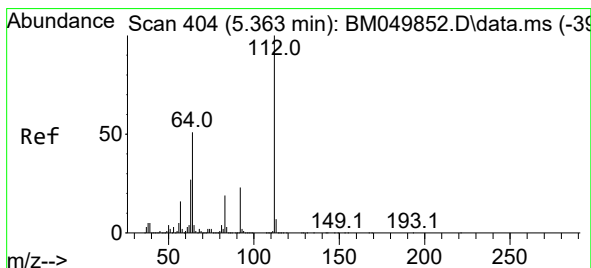
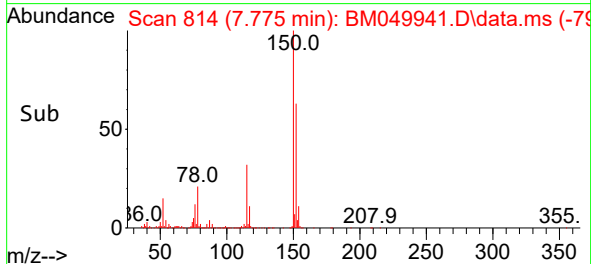
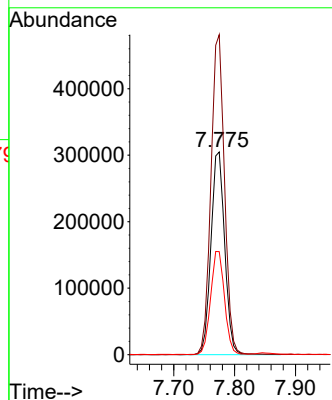
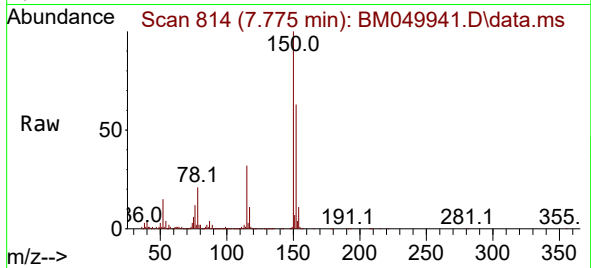




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 815
Delta R.T. -0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

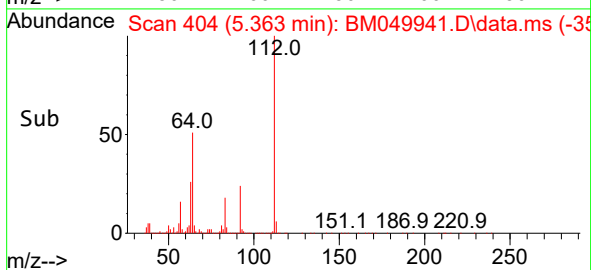
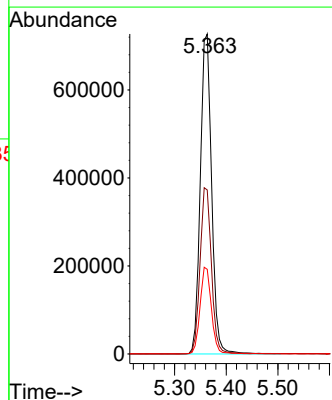
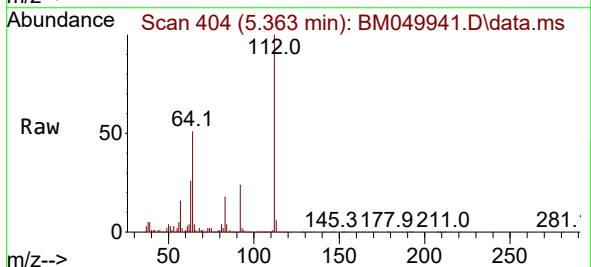
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BNA_M
ClientSampleId :
WC-1

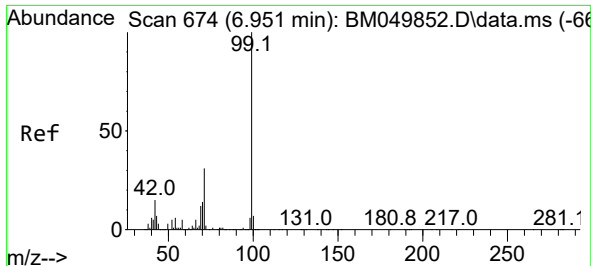
Tgt Ion:152 Resp: 478383
Ion Ratio Lower Upper
152 100
150 157.9 124.3 186.5
115 50.9 41.1 61.7



#5
2-Fluorophenol
Concen: 39.212 ng
RT: 5.363 min Scan# 404
Delta R.T. 0.000 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion:112 Resp: 1104669
Ion Ratio Lower Upper
112 100
64 51.3 41.0 61.6
63 26.5 21.5 32.3

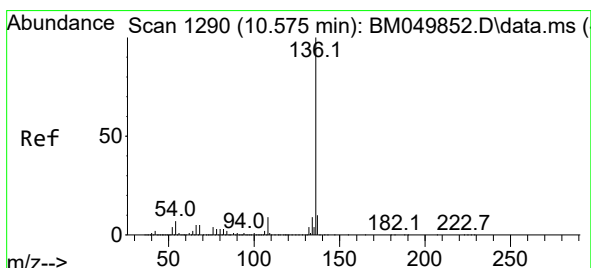
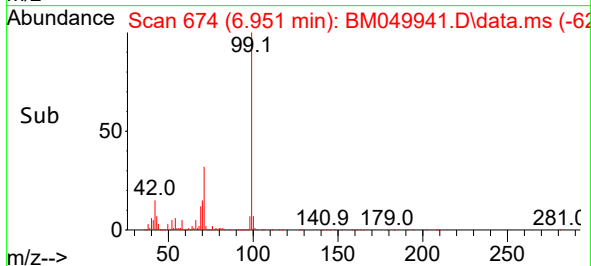
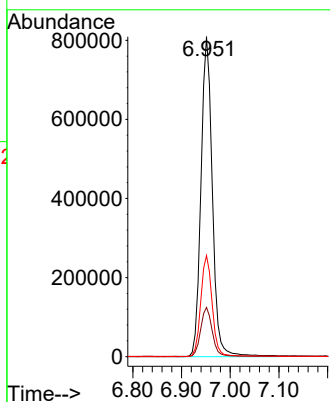
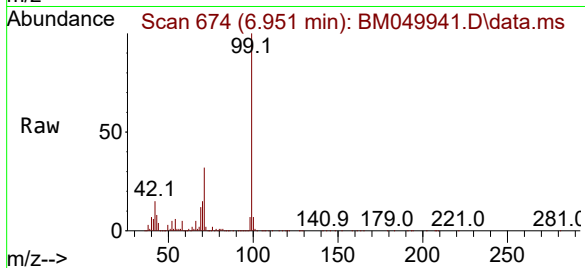




#7
Phenol-d6
Concen: 37.488 ng
RT: 6.951 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

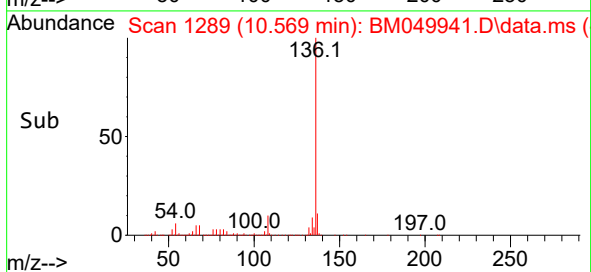
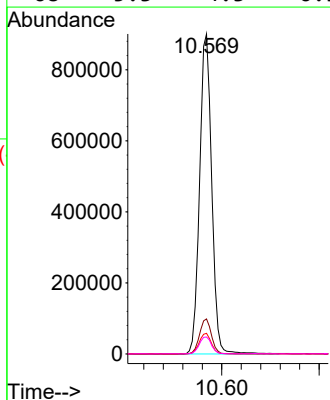
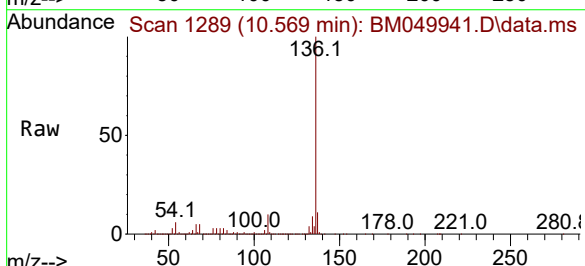
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ClientSampleId :
WC-1

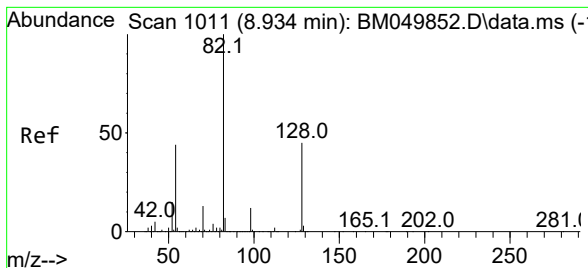
Tgt Ion: 99 Resp: 1314008
Ion Ratio Lower Upper
99 100
42 15.4 12.1 18.1
71 31.6 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion: 136 Resp: 1555949
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 6.5 5.3 7.9
68 5.3 4.3 6.5

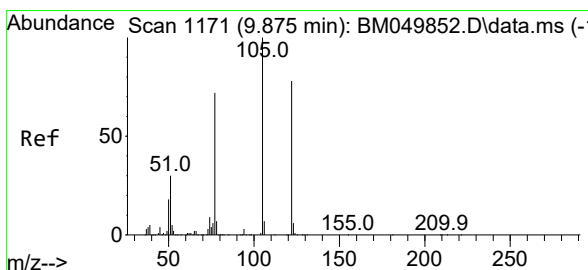
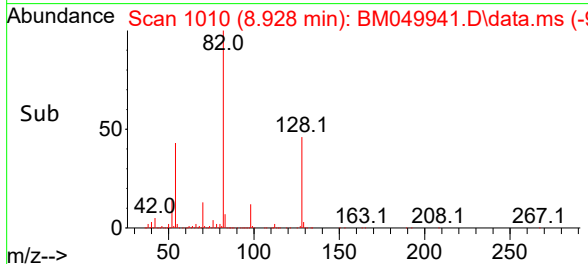
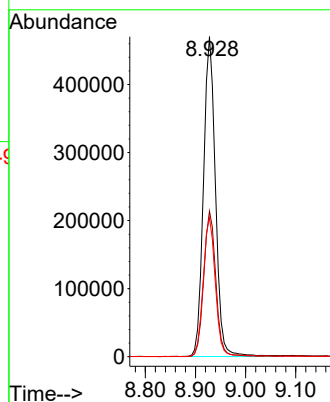
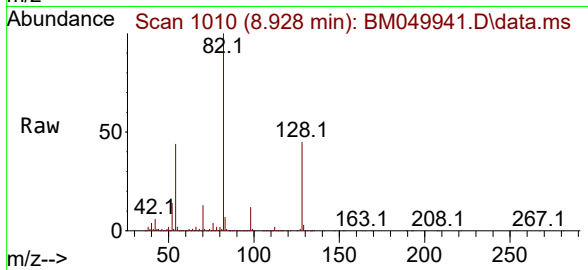




#23
Nitrobenzene-d5
Concen: 28.039 ng
RT: 8.928 min Scan# 110
Delta R.T. -0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

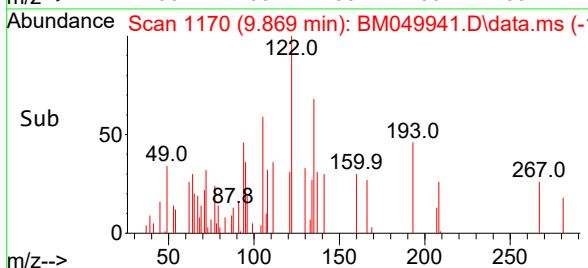
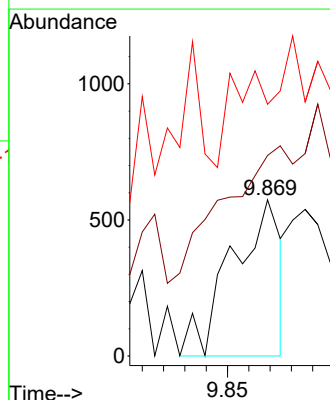
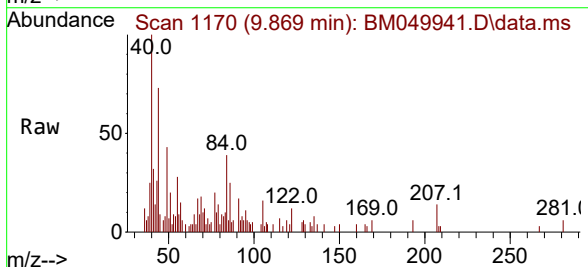
Instrument :
BNA_M
ClientSampleId :
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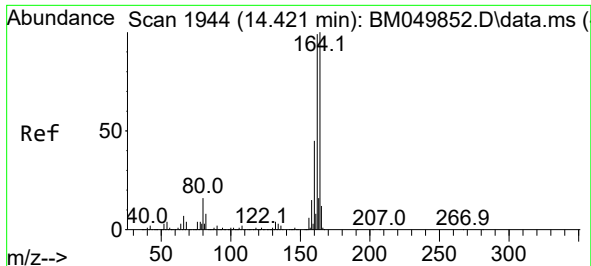
Tgt Ion: 82 Resp: 783467
Ion Ratio Lower Upper
82 100
128 45.5 36.2 54.2
54 43.5 35.0 52.6



#32
Benzoic acid
Concen: 8.576 ng
RT: 9.869 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion: 122 Resp: 918
Ion Ratio Lower Upper
122 100
105 128.4 103.8 143.8
77 161.1 70.7 110.7#

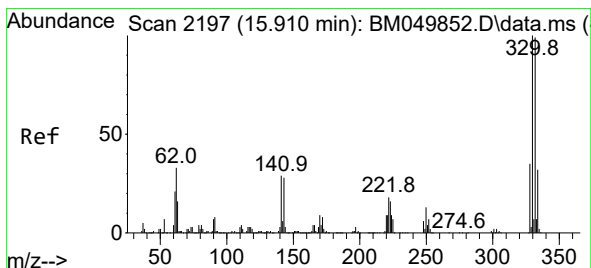
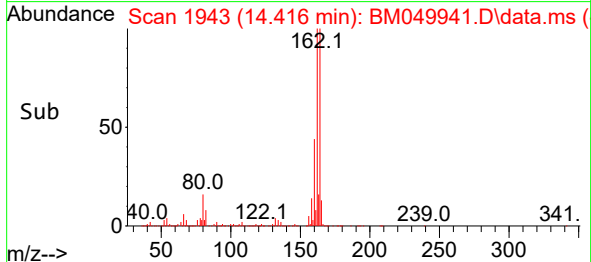
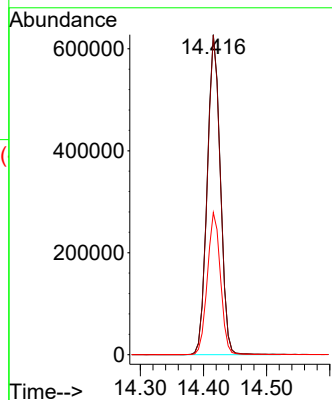
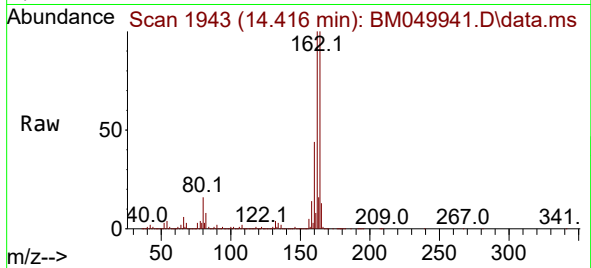




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

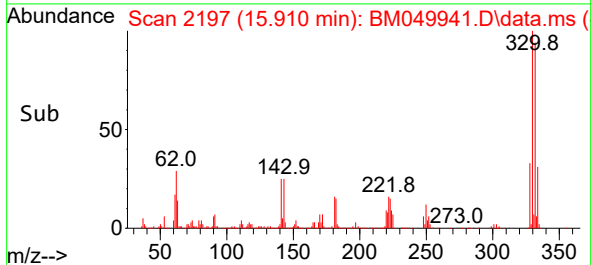
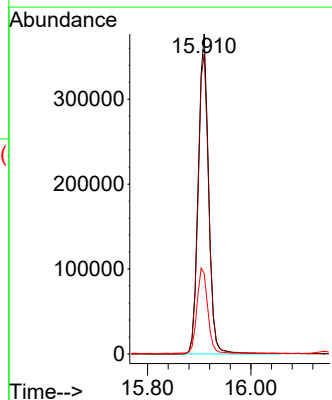
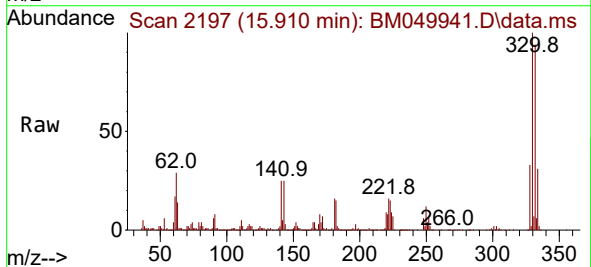
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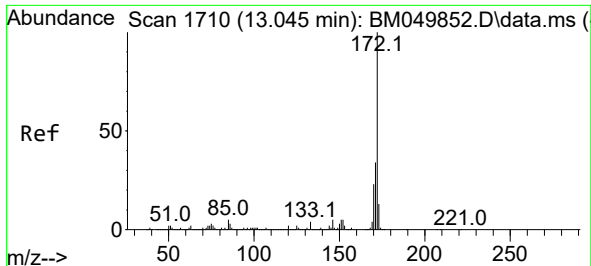
Tgt Ion:164 Resp: 906032
Ion Ratio Lower Upper
164 100
162 99.8 79.4 119.0
160 44.4 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 39.762 ng
RT: 15.910 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion:330 Resp: 524010
Ion Ratio Lower Upper
330 100
332 96.4 78.0 117.0
141 27.6 23.5 35.3

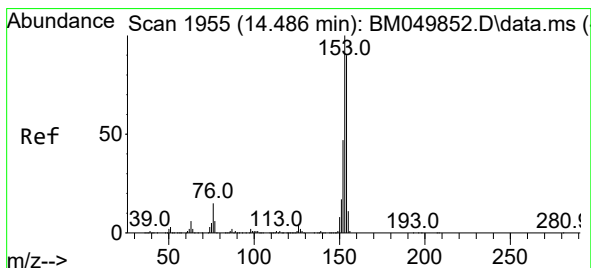
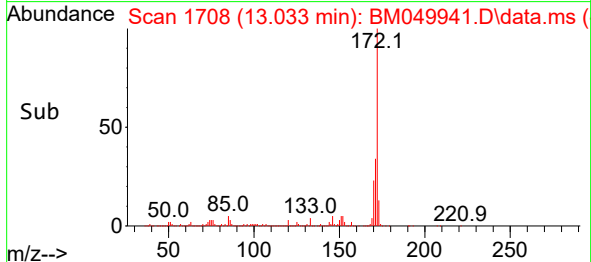
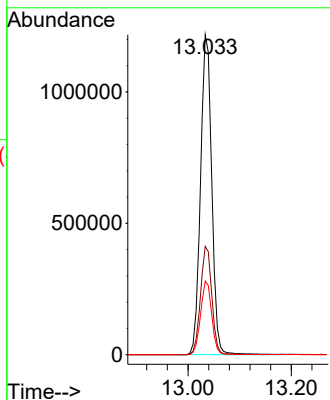
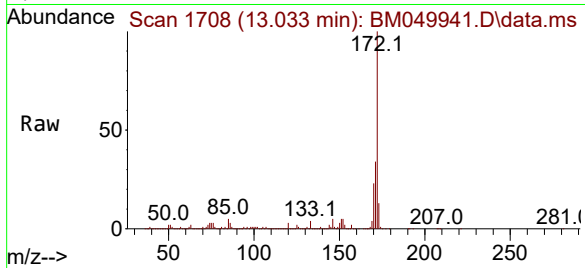




#45
2-Fluorobiphenyl
Concen: 27.455 ng
RT: 13.033 min Scan# 1710
Delta R.T. -0.012 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

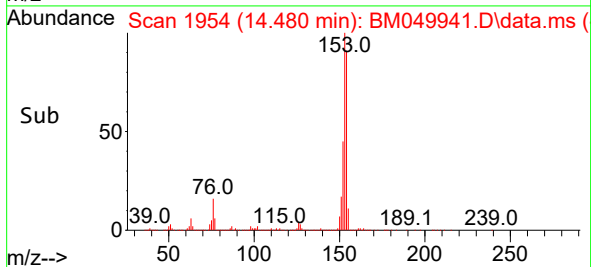
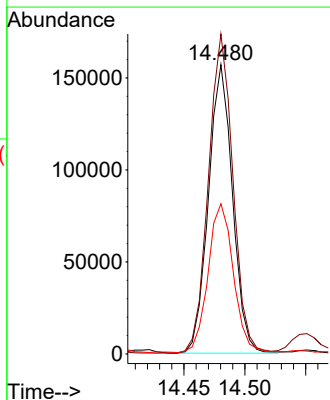
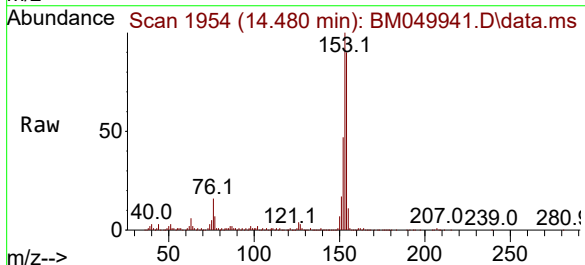
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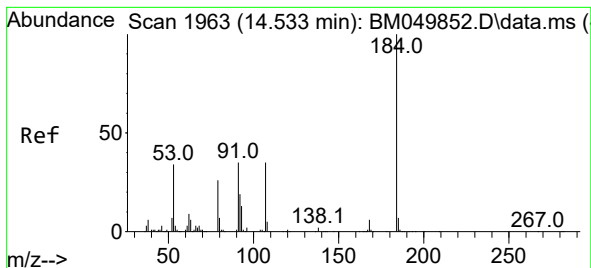
Tgt Ion:172 Resp: 1834420
Ion Ratio Lower Upper
172 100
171 33.9 27.4 41.2
170 23.0 18.6 28.0



#52
Acenaphthene
Concen: 4.388 ng
RT: 14.480 min Scan# 1954
Delta R.T. -0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion:154 Resp: 215224
Ion Ratio Lower Upper
154 100
153 110.6 89.3 133.9
152 51.9 42.2 63.2

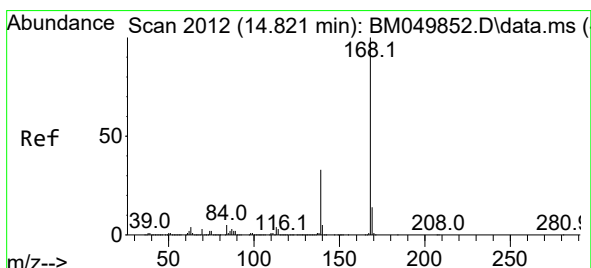
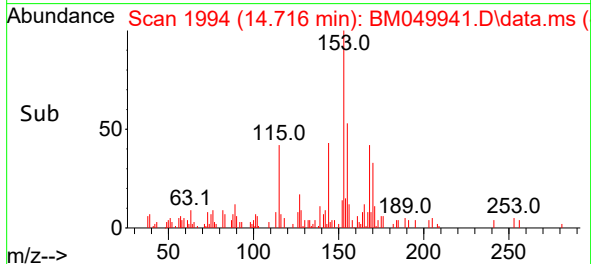
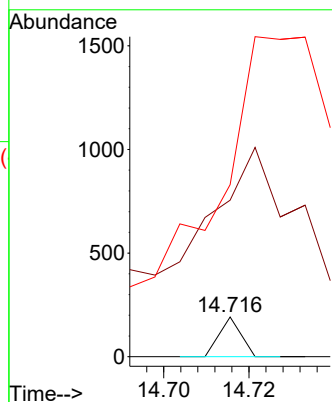
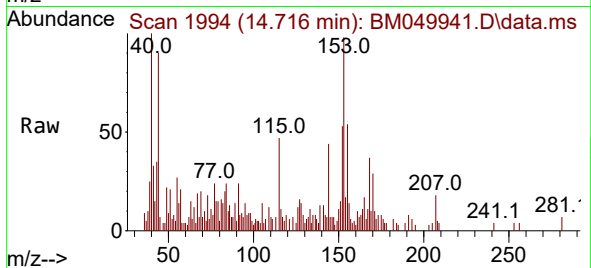




#54
2,4-Dinitrophenol
Concen: 7.231 ng
RT: 14.716 min Scan# 1963
Delta R.T. 0.183 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

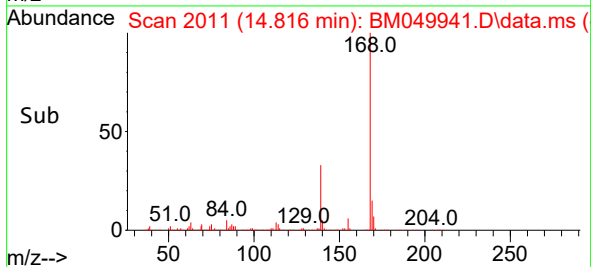
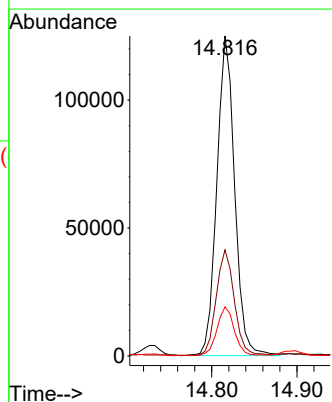
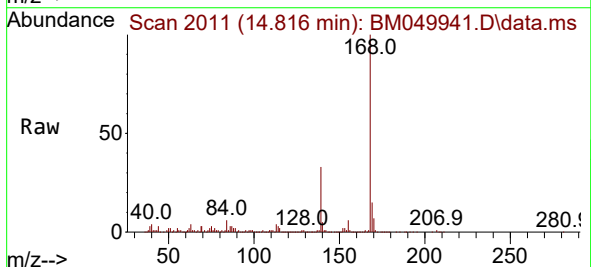
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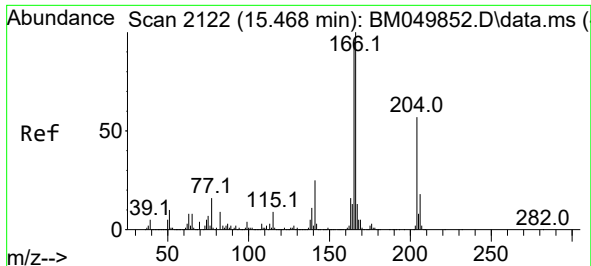
Tgt Ion:184 Resp: 68
Ion Ratio Lower Upper
184 100
63 393.2 38.4 57.6#
154 432.3 48.1 72.1#



#55
Dibenzofuran
Concen: 2.210 ng
RT: 14.816 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion:168 Resp: 181248
Ion Ratio Lower Upper
168 100
139 33.1 26.6 39.8
169 15.4 11.0 16.4

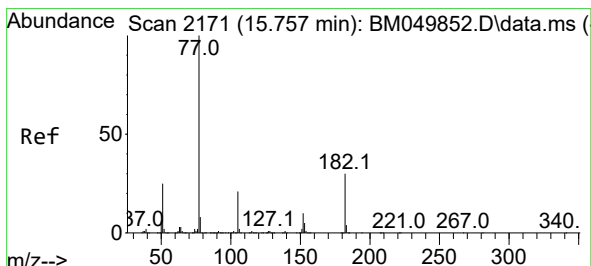
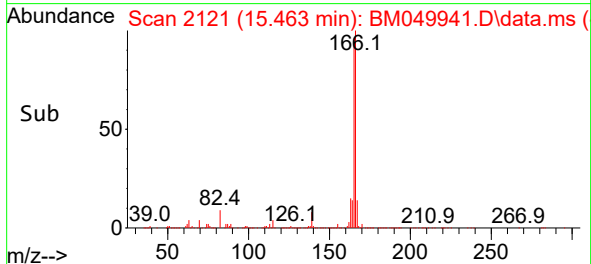
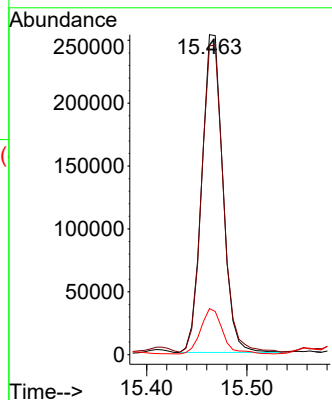
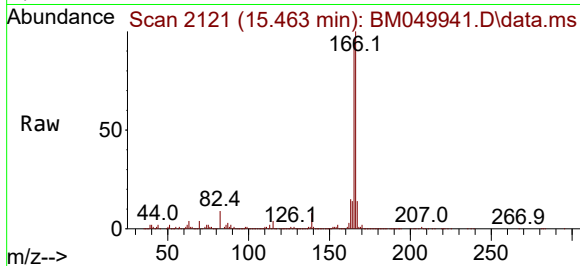




#58
 Fluorene
 Concen: 5.675 ng
 RT: 15.463 min Scan# 2121
 Delta R.T. -0.006 min
 Lab File: BM049941.D
 Acq: 15 Apr 2025 19:11

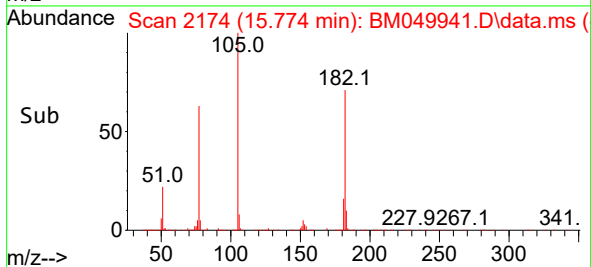
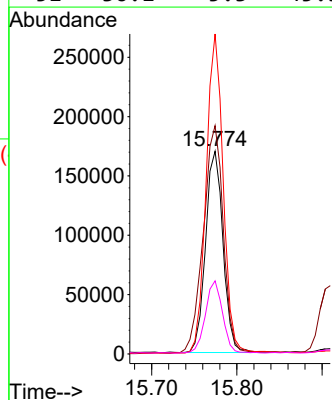
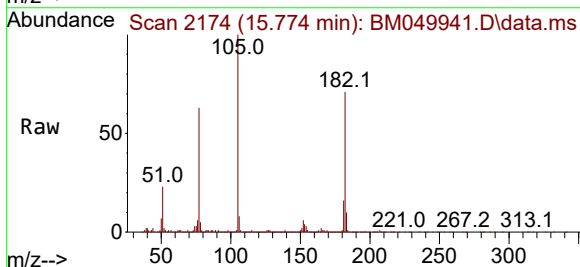
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 ClientSampleId :
 WC-1

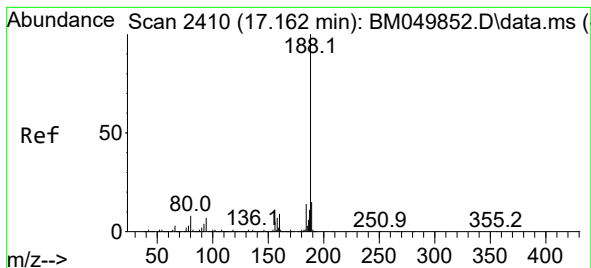
Tgt Ion:166 Resp: 369893
 Ion Ratio Lower Upper
 166 100
 165 96.5 76.3 114.5
 167 14.4 10.7 16.1



#63
 Azobenzene
 Concen: 4.629 ng
 RT: 15.774 min Scan# 2174
 Delta R.T. 0.018 min
 Lab File: BM049941.D
 Acq: 15 Apr 2025 19:11

Tgt Ion: 77 Resp: 242949
 Ion Ratio Lower Upper
 77 100
 182 112.6 10.4 50.4#
 105 157.8 1.5 41.5#
 51 36.1 5.3 45.3

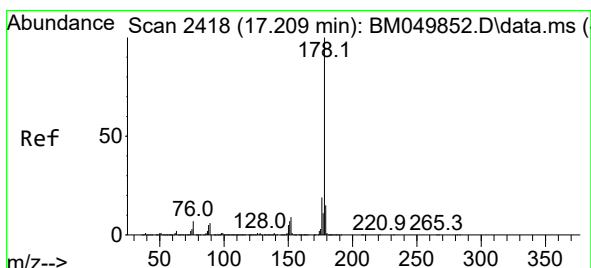
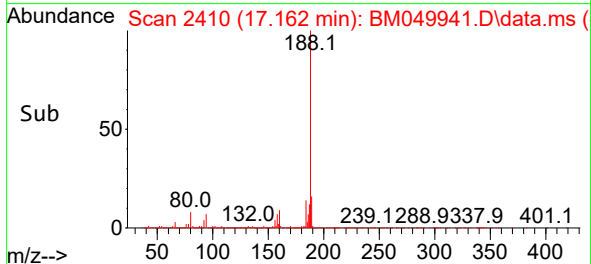
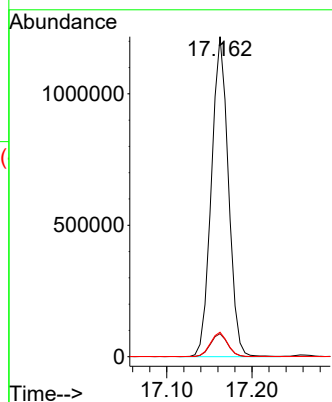
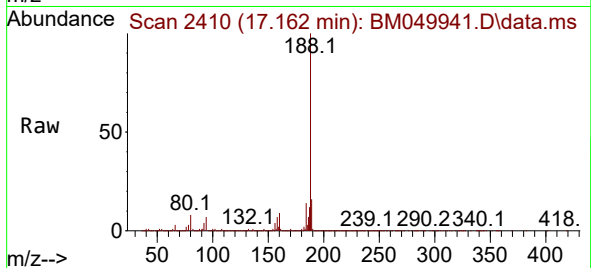




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.162 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

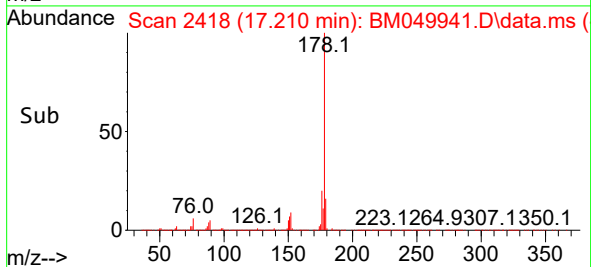
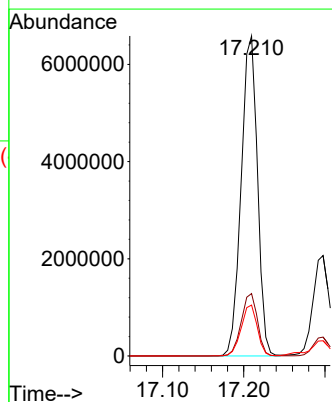
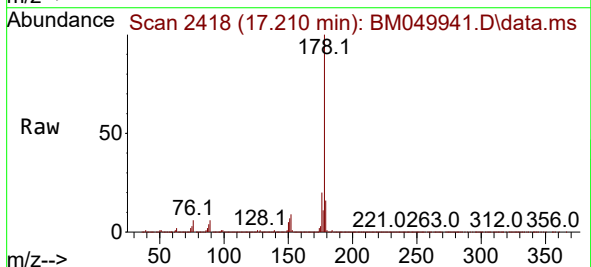
Instrument :
BNA_M
ClientSampleId :
WC-1

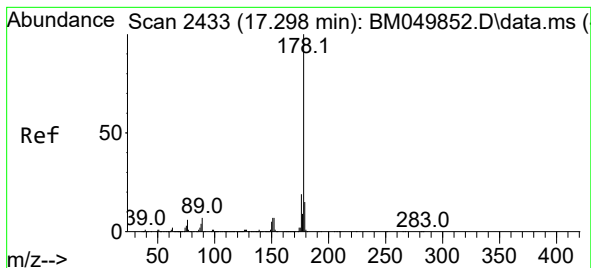
Tgt Ion:188 Resp: 1685007
Ion Ratio Lower Upper
188 100
94 7.2 5.8 8.6
80 7.7 6.4 9.6



#71
Phenanthrene
Concen: 99.184 ng
RT: 17.210 min Scan# 2418
Delta R.T. 0.000 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion:178 Resp: 9162448
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.9 12.3 18.5





#72

Anthracene

Concen: 31.457 ng

RT: 17.298 min Scan# 2433

Delta R.T. 0.000 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

Instrument :

BNA_M

ClientSampleId :

WC-1

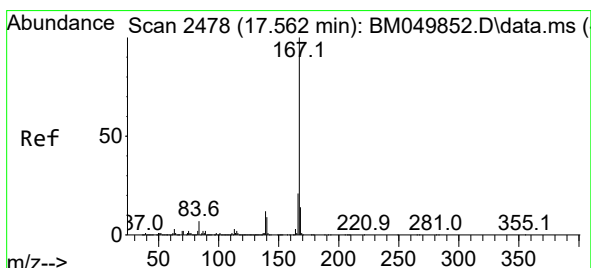
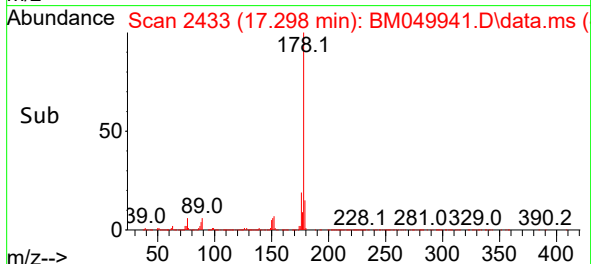
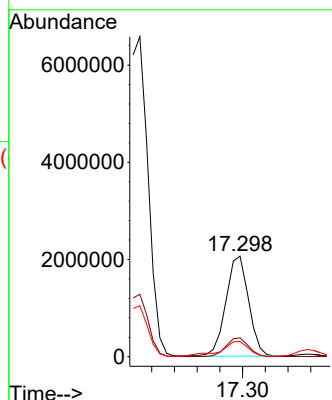
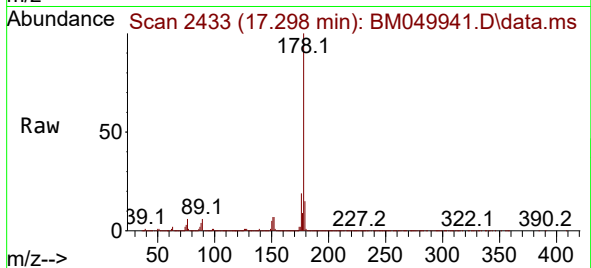
Tgt Ion:178 Resp: 2863787

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

179 15.2 12.4 18.6



#73

Carbazole

Concen: 10.156 ng

RT: 17.568 min Scan# 2479

Delta R.T. 0.006 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

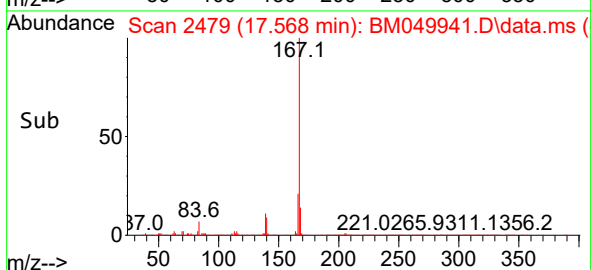
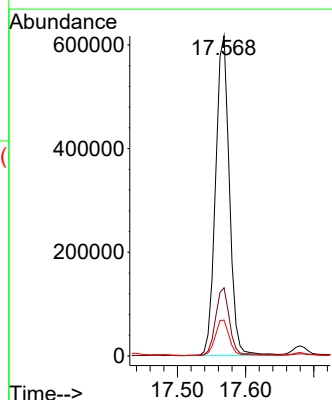
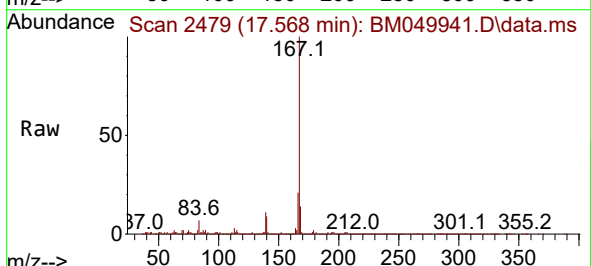
Tgt Ion:167 Resp: 870822

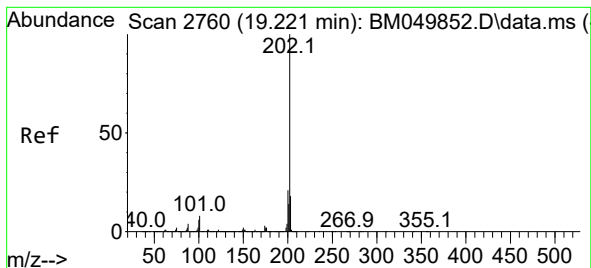
Ion Ratio Lower Upper

167 100

166 21.3 16.9 25.3

139 11.2 9.3 13.9





#75

Fluoranthene

Concen: 134.825 ng

RT: 19.221 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

Instrument :

BNA_M

ClientSampleId :

WC-1

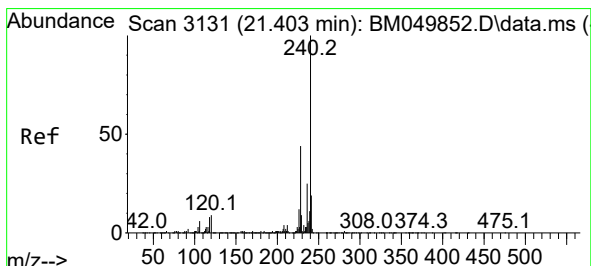
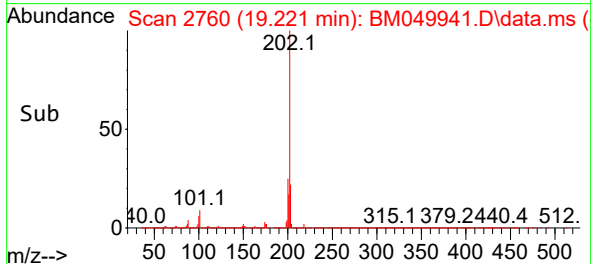
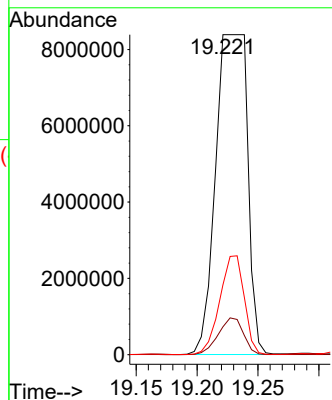
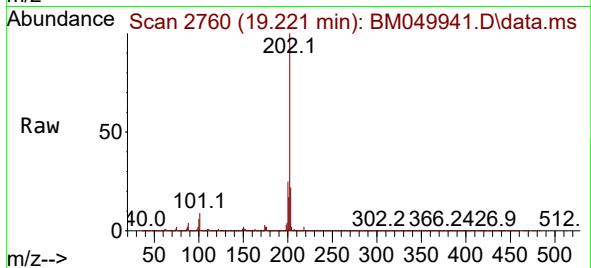
Tgt Ion:202 Resp:15313958

Ion Ratio Lower Upper

202 100

101 8.7 0.0 28.4

203 21.8 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.409 min Scan# 3132

Delta R.T. 0.006 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

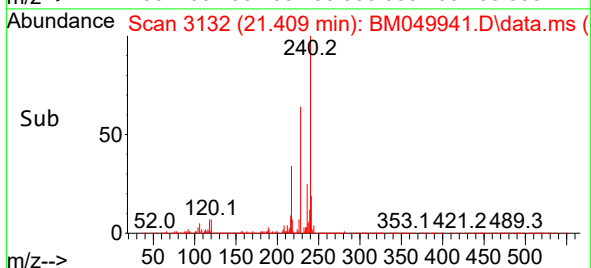
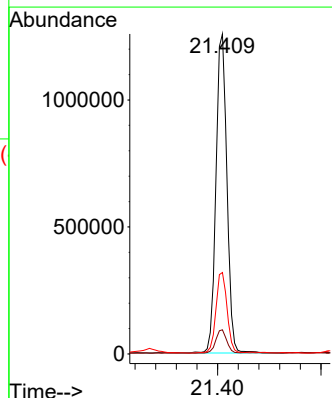
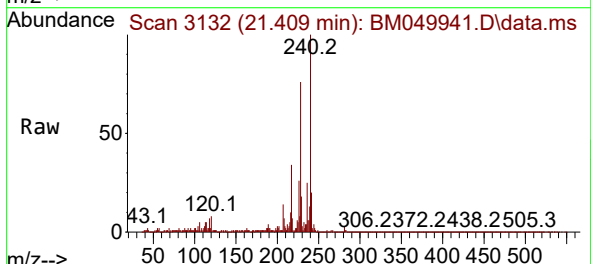
Tgt Ion:240 Resp: 1845748

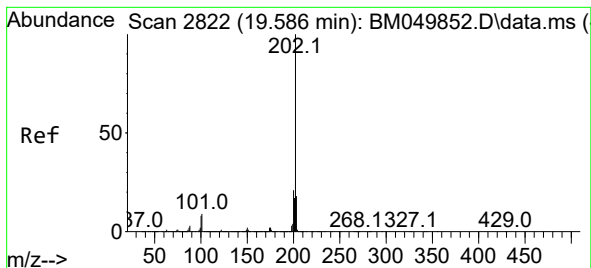
Ion Ratio Lower Upper

240 100

120 7.6 6.9 10.3

236 25.4 20.4 30.6





#78

Pyrene

Concen: 114.073 ng

RT: 19.586 min Scan# 2822

Delta R.T. 0.000 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

Instrument :

BNA_M

ClientSampleId :

WC-1

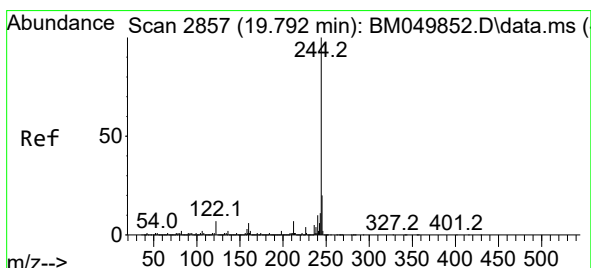
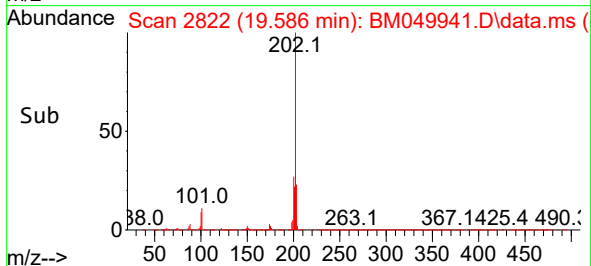
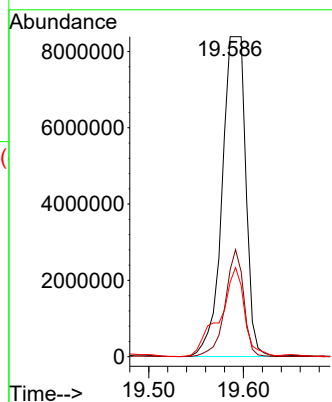
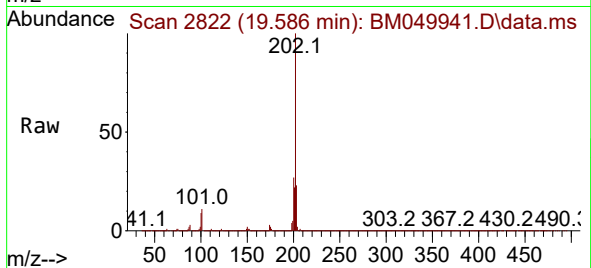
Tgt Ion:202 Resp:14510690

Ion Ratio Lower Upper

202 100

200 27.1 16.5 24.7#

203 23.2 14.0 21.0#



#79

Terphenyl-d14

Concen: 22.116 ng

RT: 19.786 min Scan# 2856

Delta R.T. -0.006 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

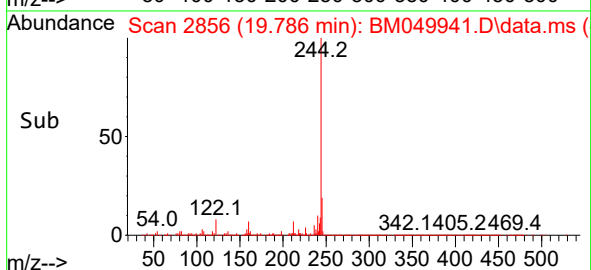
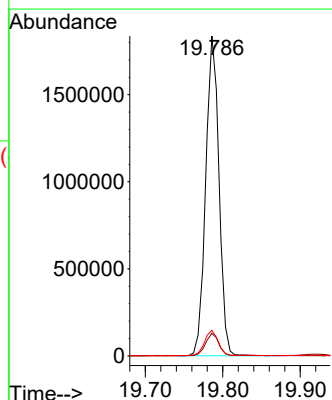
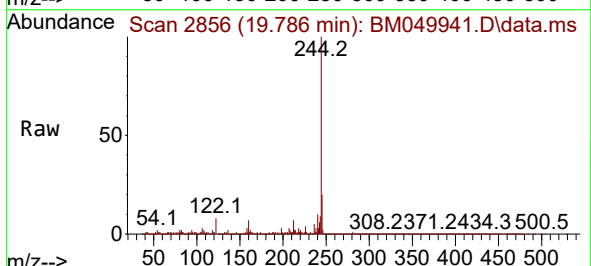
Tgt Ion:244 Resp: 2178193

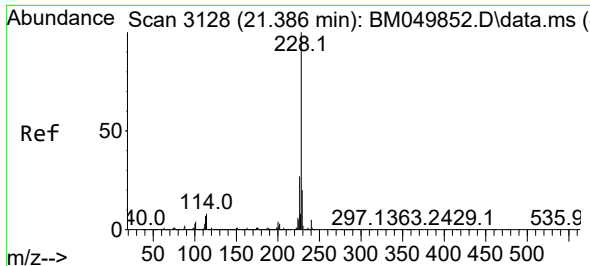
Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 8.0 5.4 8.0

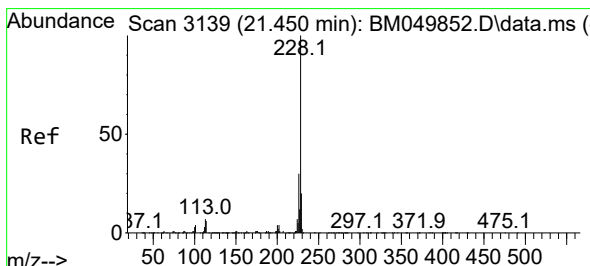
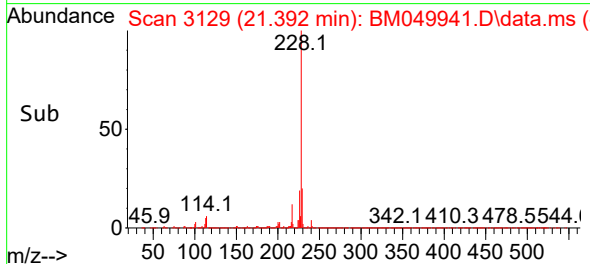
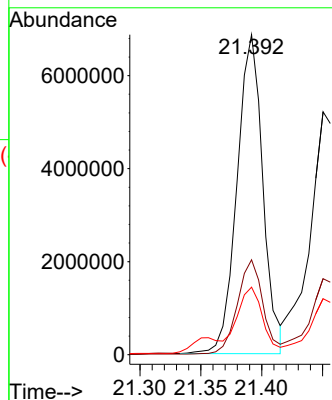
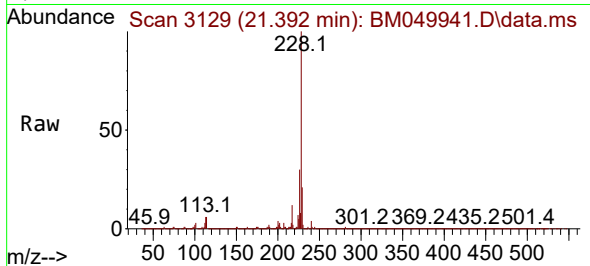




#81
Benzo(a)anthracene
Concen: 82.459 ng
RT: 21.392 min Scan# 3129
Delta R.T. 0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

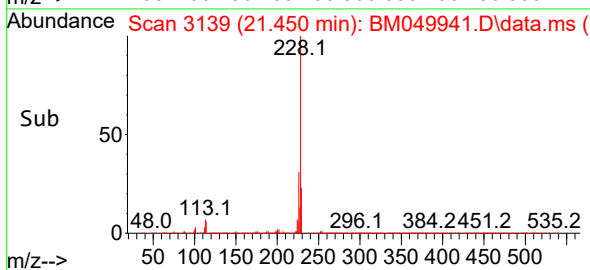
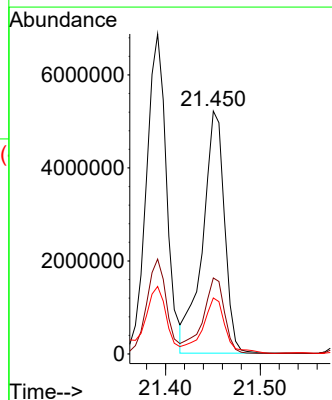
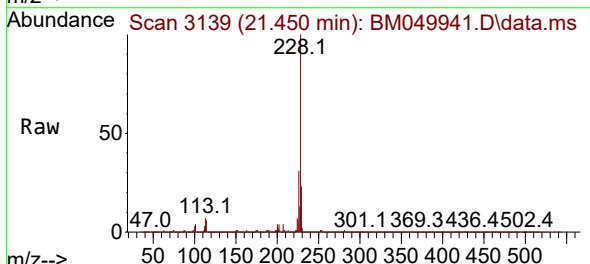
Instrument :
BNA_M
ClientSampleId :
WC-1

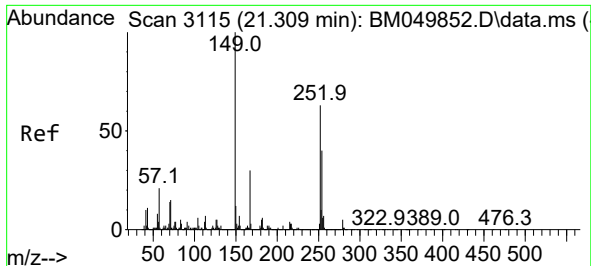
Tgt Ion:228 Resp:10115109
Ion Ratio Lower Upper
228 100
226 29.7 21.8 32.8
229 21.1 15.8 23.8



#83
Chrysene
Concen: 71.433 ng
RT: 21.450 min Scan# 3139
Delta R.T. 0.000 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion:228 Resp: 8330628
Ion Ratio Lower Upper
228 100
226 31.3 24.1 36.1
229 23.0 15.8 23.6

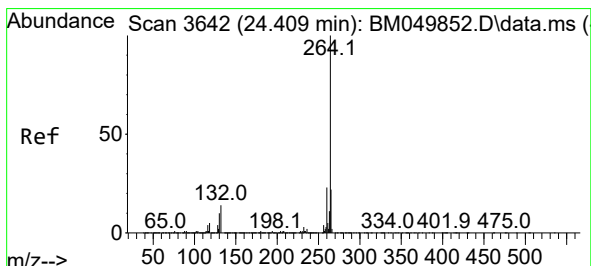
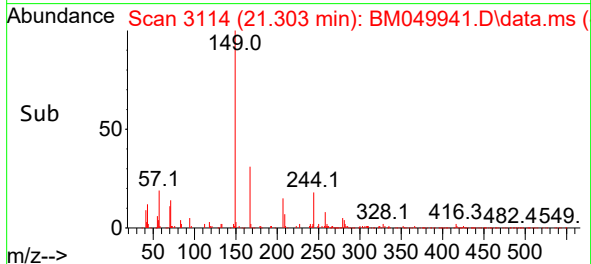
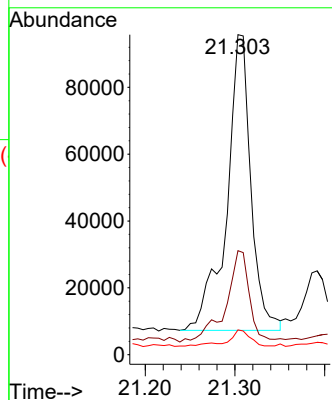
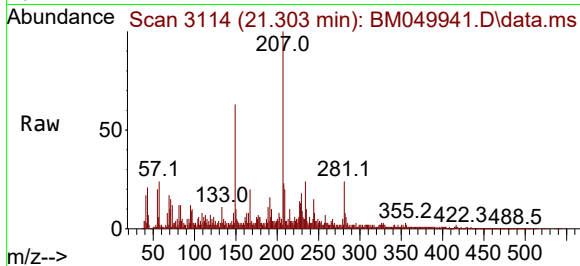




#84
Bis(2-ethylhexyl)phthalate
Concen: 2.392 ng
RT: 21.303 min Scan# 3115
Delta R.T. -0.006 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

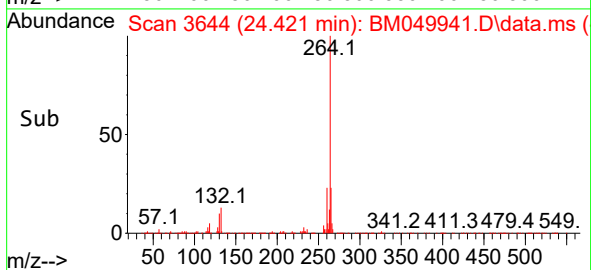
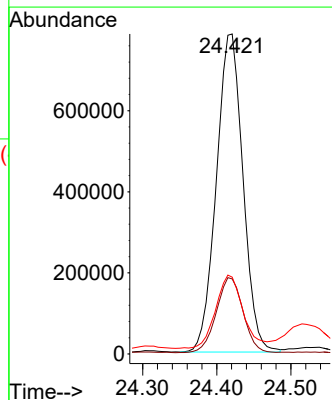
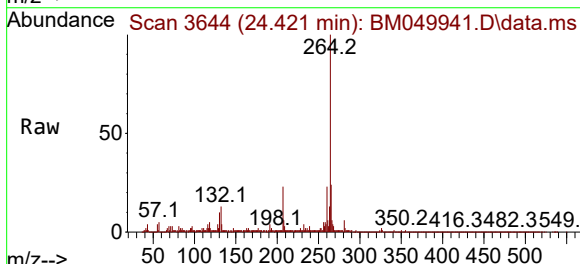
Instrument :
BNA_M
ClientSampleId :
WC-1

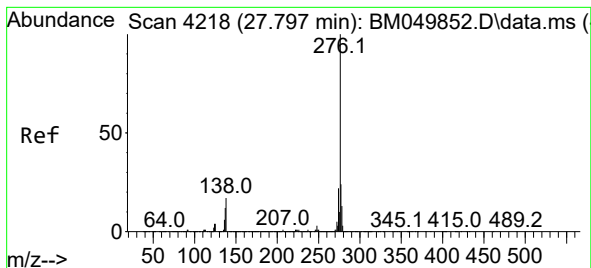
Tgt Ion:149 Resp: 166610
Ion Ratio Lower Upper
149 100
167 32.5 23.8 35.6
279 7.7 3.8 5.8#



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.421 min Scan# 3644
Delta R.T. 0.012 min
Lab File: BM049941.D
Acq: 15 Apr 2025 19:11

Tgt Ion:264 Resp: 1956632
Ion Ratio Lower Upper
264 100
260 23.5 18.6 28.0
265 24.0 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 32.596 ng

RT: 27.826 min Scan# 41

Delta R.T. 0.029 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

Instrument :

BNA_M

ClientSampleId :

WC-1

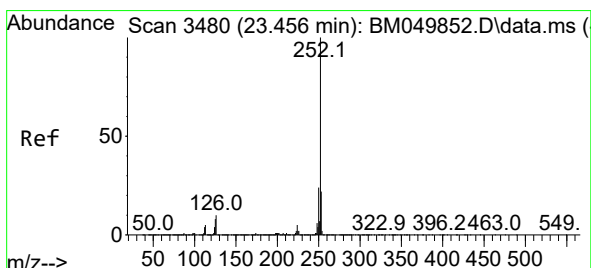
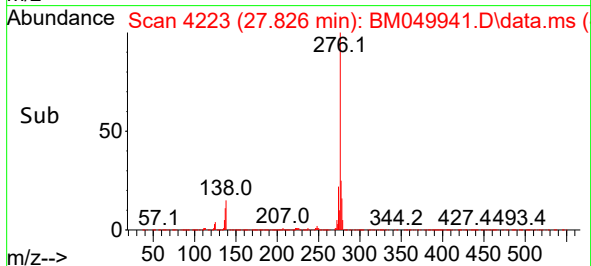
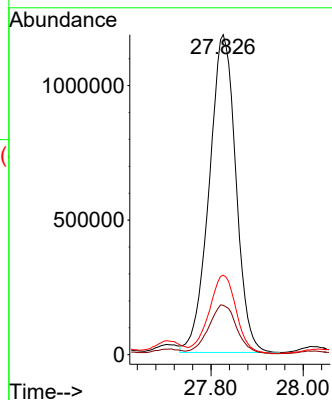
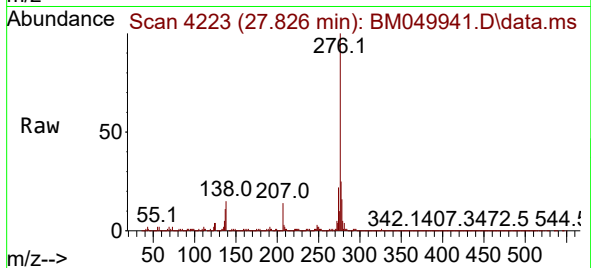
Tgt Ion:276 Resp: 4754174

Ion Ratio Lower Upper

276 100

138 16.2 16.8 25.2#

277 25.0 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 87.943 ng

RT: 23.480 min Scan# 3484

Delta R.T. 0.024 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

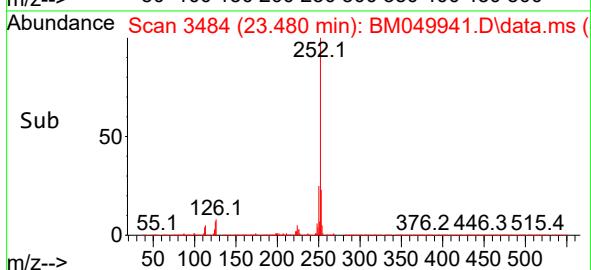
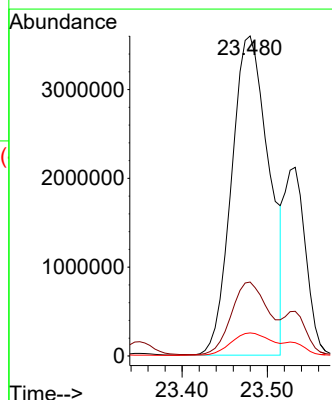
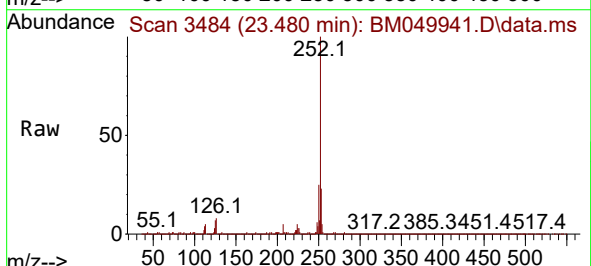
Tgt Ion:252 Resp:10989531

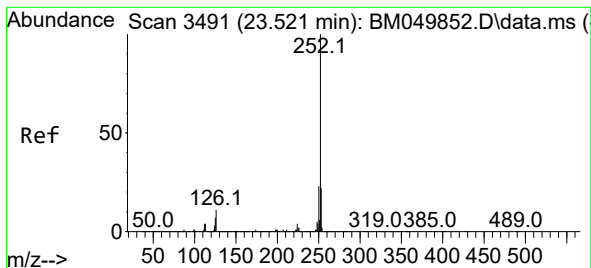
Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

125 7.2 6.2 9.4





#89

Benzo(k)fluoranthene

Concen: 90.749 ng

RT: 23.480 min Scan# 34

Delta R.T. -0.041 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

Instrument :

BNA_M

ClientSampleId :

WC-1

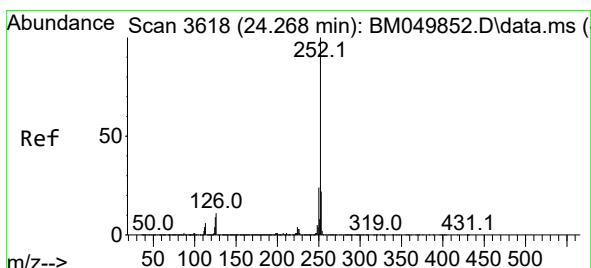
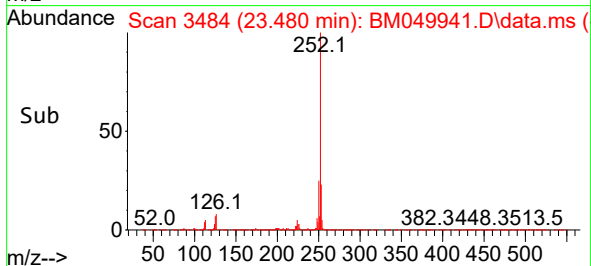
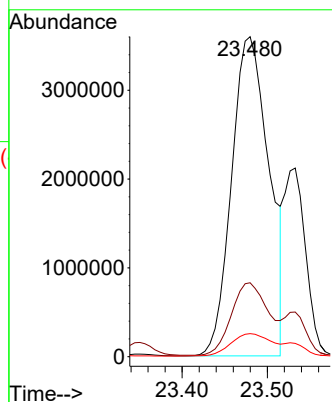
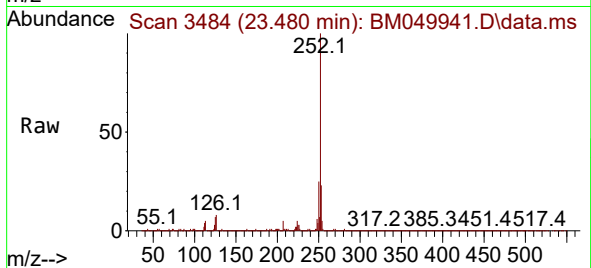
Tgt Ion:252 Resp:10989531

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.2

125 7.2 5.8 8.8



#90

Benzo(a)pyrene

Concen: 73.427 ng

RT: 24.286 min Scan# 3621

Delta R.T. 0.018 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

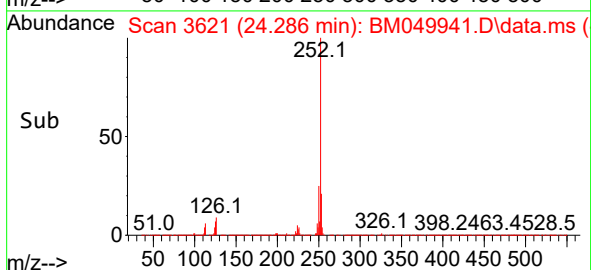
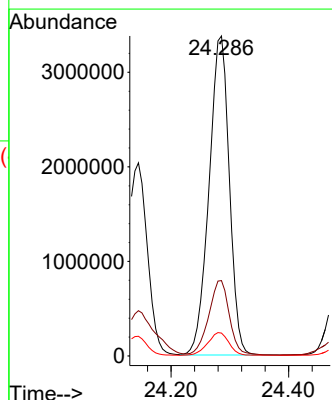
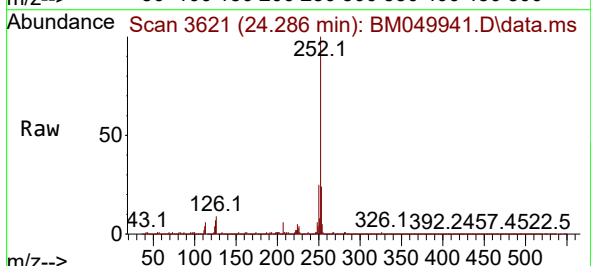
Tgt Ion:252 Resp: 8062902

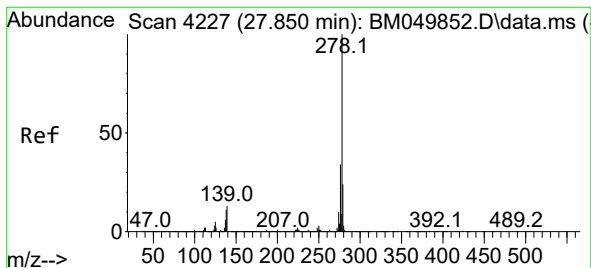
Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

125 7.2 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 10.262 ng

RT: 27.850 min Scan# 41

Delta R.T. 0.000 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

Instrument :

BNA_M

ClientSampleId :

WC-1

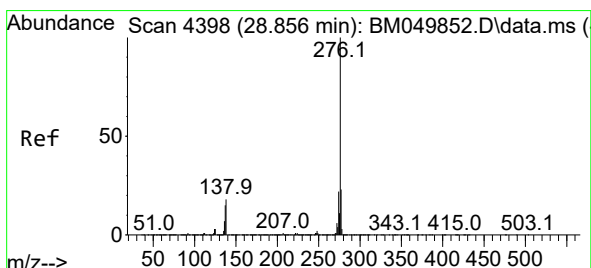
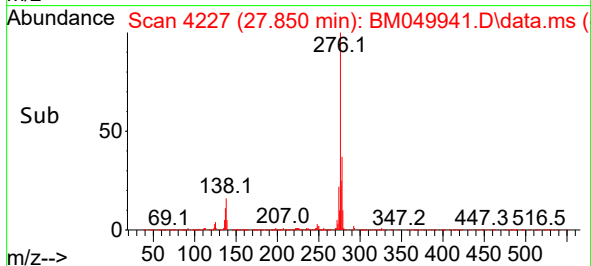
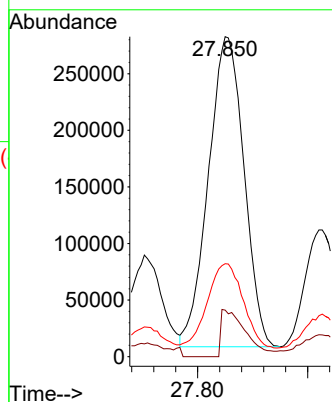
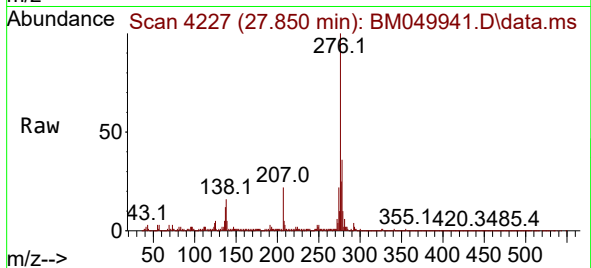
Tgt Ion:278 Resp: 1232814

Ion Ratio Lower Upper

278 100

139 14.5 10.6 15.8

279 29.1 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 34.293 ng

RT: 28.891 min Scan# 4404

Delta R.T. 0.035 min

Lab File: BM049941.D

Acq: 15 Apr 2025 19:11

Tgt Ion:276 Resp: 4209900

Ion Ratio Lower Upper

276 100

277 24.2 18.7 28.1

138 16.8 14.6 21.8

