

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052623\
 Data File : BP015326.D
 Acq On : 27 May 2023 00:42
 Operator : CG/JU
 Sample : 02922-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ORA-1618

Quant Time: May 29 02:10:25 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP052423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 25 01:41:43 2023
 Response via : Initial Calibration

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

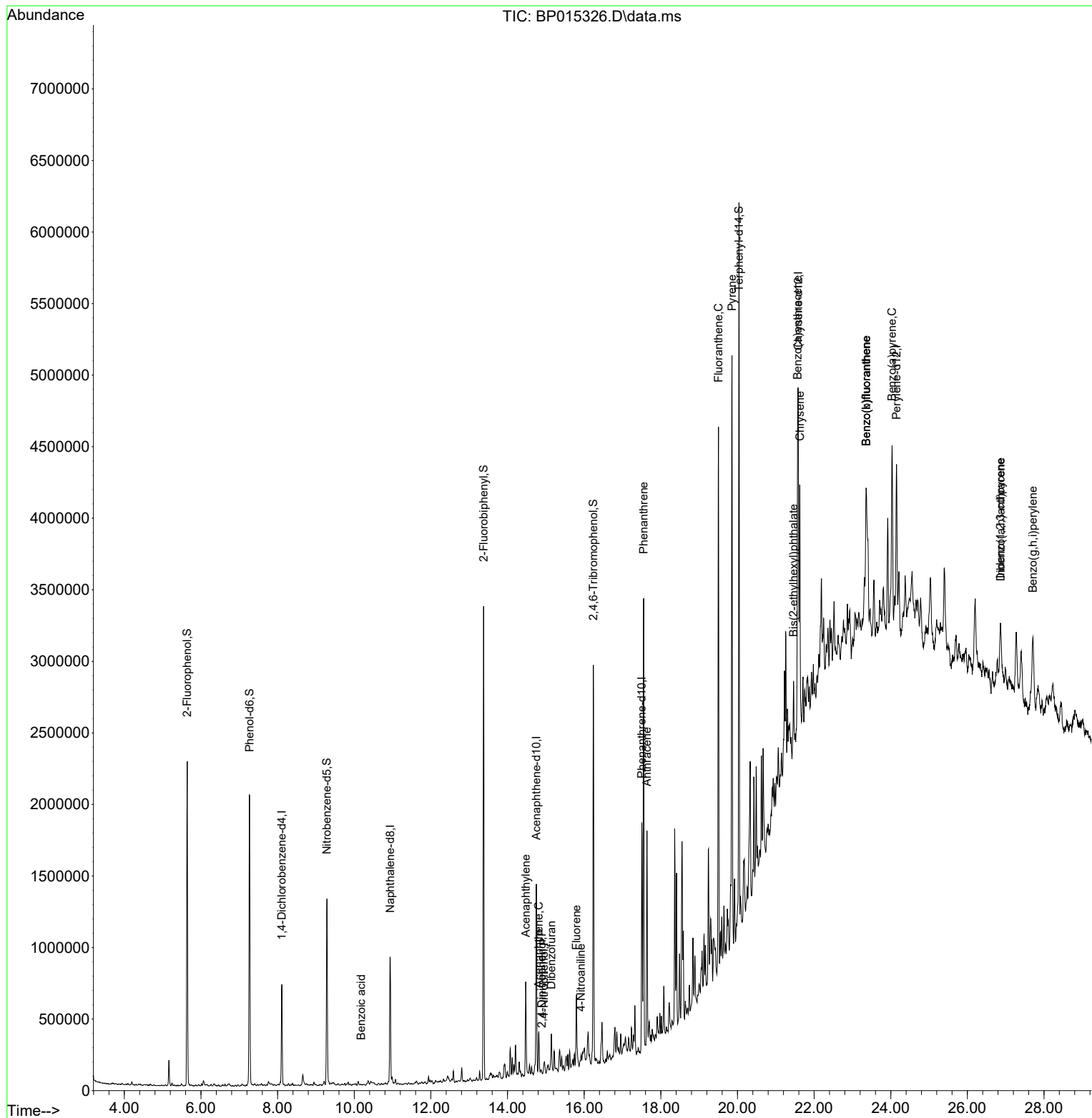
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.110	152	187379	20.000	ng	0.00
21) Naphthalene-d8	10.940	136	717727	20.000	ng	0.00
39) Acenaphthene-d10	14.751	164	431482	20.000	ng	0.00
64) Phenanthrene-d10	17.504	188	938482	20.000	ng	0.00
76) Chrysene-d12	21.586	240	822163	20.000	ng	0.00
86) Perylene-d12	24.151	264	996376	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.640	112	926523	81.935	ng	0.00
7) Phenol-d6	7.269	99	1155437	77.969	ng	0.00
23) Nitrobenzene-d5	9.287	82	740372	50.367	ng	0.00
42) 2,4,6-Tribromophenol	16.239	330	500029	85.277	ng	0.00
45) 2-Fluorobiphenyl	13.375	172	1574830	49.001	ng	0.00
79) Terphenyl-d14	20.039	244	2260739	51.722	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	7.228	77	657	Below Cal	#	58
32) Benzoic acid	10.181	122	850	6.429	ng	39
49) Acenaphthylene	14.475	152	491233	11.904	ng	99
52) Acenaphthene	14.816	154	99624	4.053	ng	99
54) 2,4-Dinitrophenol	14.892	184	77	5.202	ng	# 1
55) Dibenzofuran	15.145	168	98905	2.460	ng	# 91
56) 4-Nitrophenol	14.951	139	4023	4.031	ng	# 63
58) Fluorene	15.798	166	245743	7.914	ng	98
62) 4-Nitroaniline	15.916	138	295	2.341	ng	98
71) Phenanthrene	17.551	178	1822787	36.442	ng	100
72) Anthracene	17.639	178	905875	18.084	ng	100
75) Fluoranthene	19.504	202	2157356	36.921	ng	99
78) Pyrene	19.857	202	2418847	41.119	ng	99
81) Benzo(a)anthracene	21.569	228	1002050	17.541	ng	95
83) Chrysene	21.627	228	1033329	18.864	ng	95
84) Bis(2-ethylhexyl)phtha...	21.463	149	95322	2.596	ng	# 89
87) Indeno(1,2,3-cd)pyrene	26.862	276	536744	7.432	ng	95
88) Benzo(b)fluoranthene	23.363	252	1069062	17.647	ng	# 91
89) Benzo(k)fluoranthene	23.363	252	1069062	17.525	ng	# 90
90) Benzo(a)pyrene	24.033	252	928007	15.867	ng	# 94
91) Dibenzo(a,h)anthracene	26.868	278	167643	2.827	ng	# 64
92) Benzo(g,h,i)perylene	27.709	276	635006	10.537	ng	98

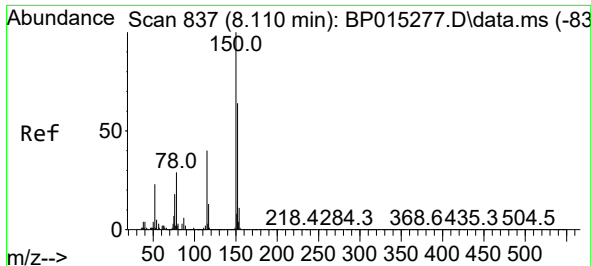
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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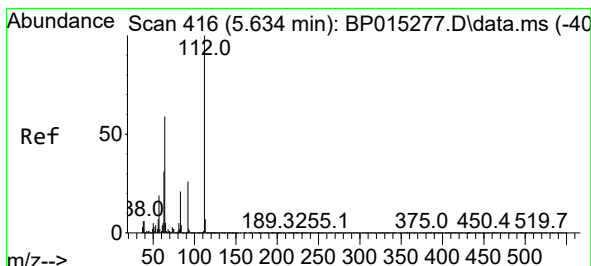
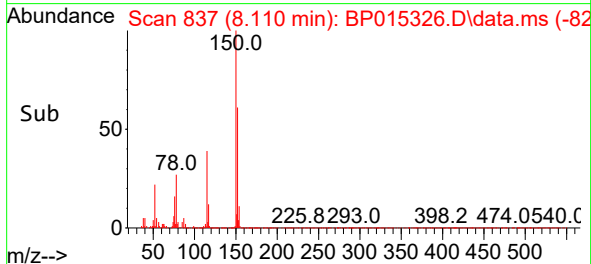
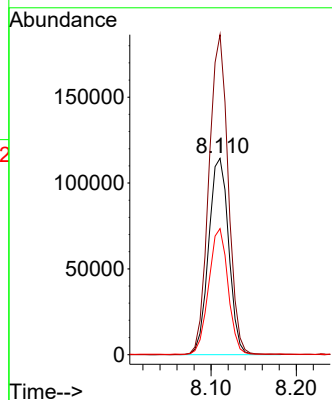
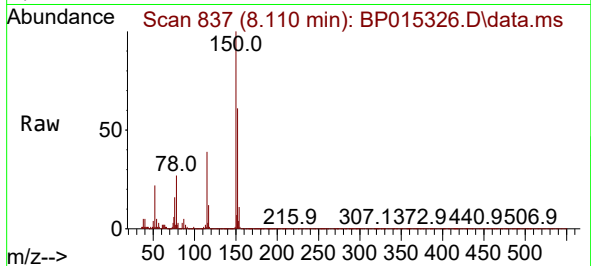




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.110 min Scan# 81
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

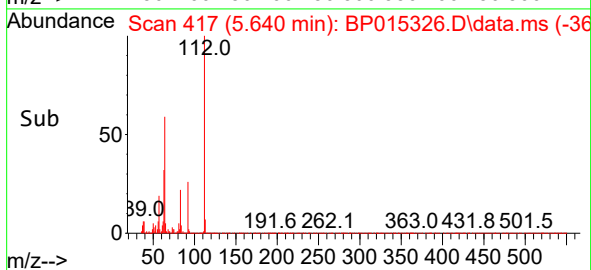
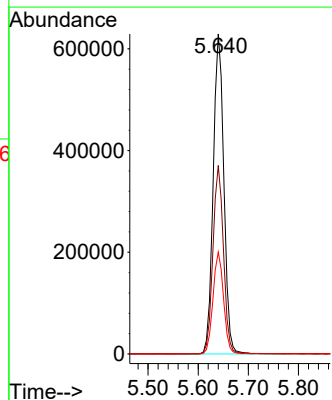
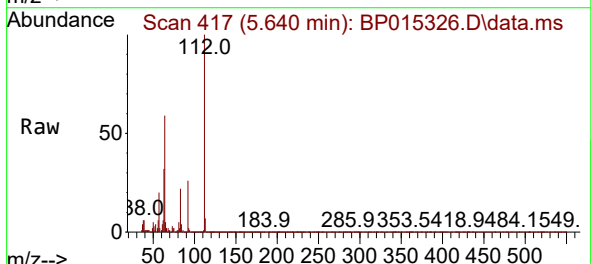
Instrument :
BNA_P
ClientSampleId :
ORA-1618

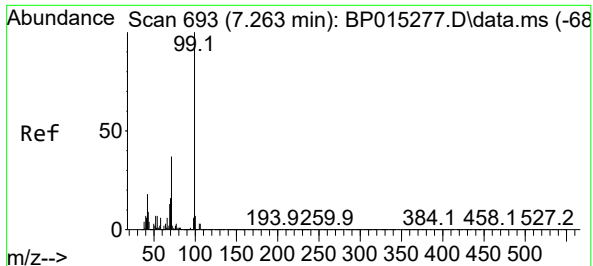
Tgt Ion:152 Resp: 187379
Ion Ratio Lower Upper
152 100
150 162.9 124.2 186.2
115 64.2 49.1 73.7



#5
2-Fluorophenol
Concen: 81.935 ng
RT: 5.640 min Scan# 417
Delta R.T. 0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:112 Resp: 926523
Ion Ratio Lower Upper
112 100
64 58.9 47.2 70.8
63 31.9 24.6 37.0

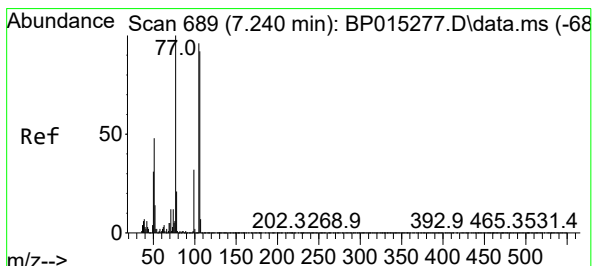
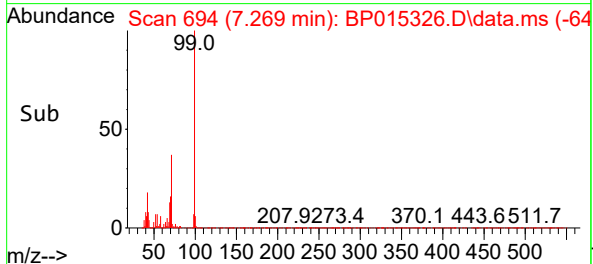
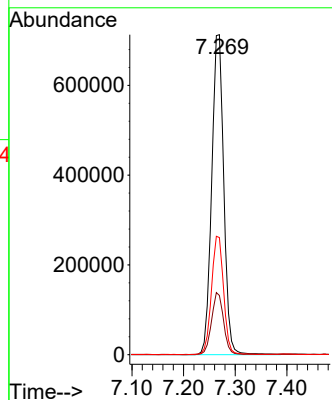
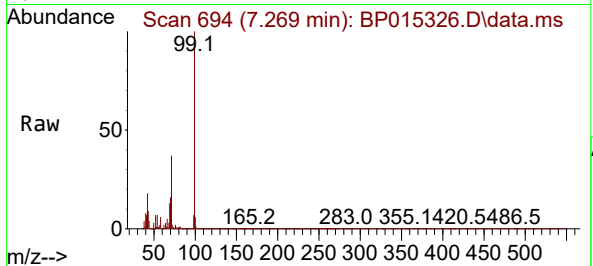




#7
Phenol-d6
Concen: 77.969 ng
RT: 7.269 min Scan# 693
Delta R.T. 0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

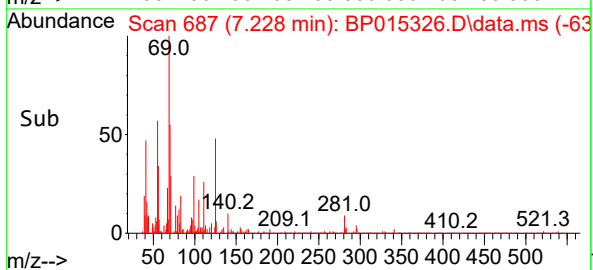
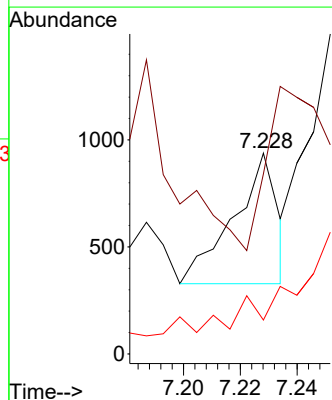
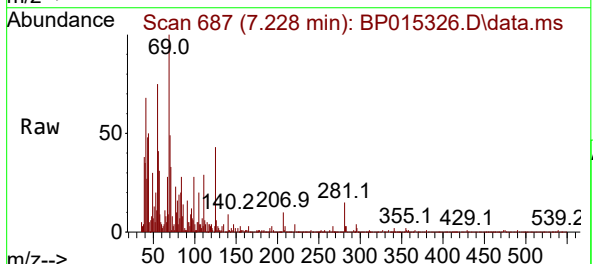
Instrument :
BNA_P
ClientSampleId :
ORA-1618

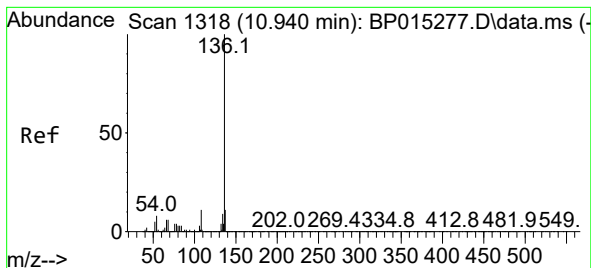
Tgt Ion: 99 Resp: 1155437
Ion Ratio Lower Upper
99 100
42 18.5 14.6 22.0
71 36.6 29.4 44.2



#9
Benzaldehyde
Concen: Below Cal
RT: 7.228 min Scan# 687
Delta R.T. -0.012 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion: 77 Resp: 657
Ion Ratio Lower Upper
77 100
105 89.7 75.9 115.9
106 16.8 72.3 112.3#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.940 min Scan# 1318

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

Tgt Ion:136 Resp: 717727

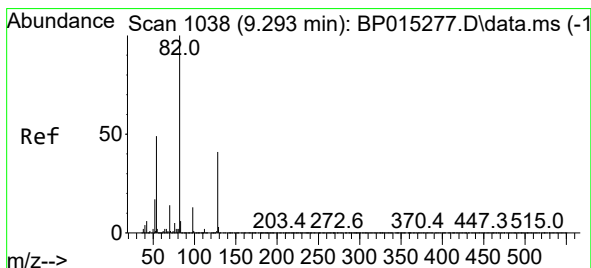
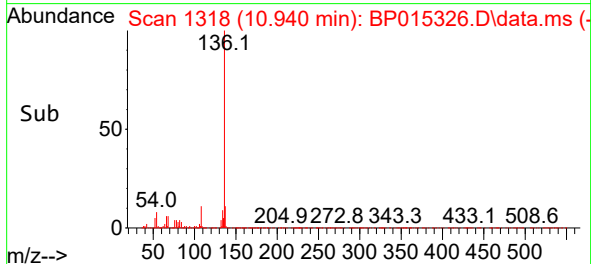
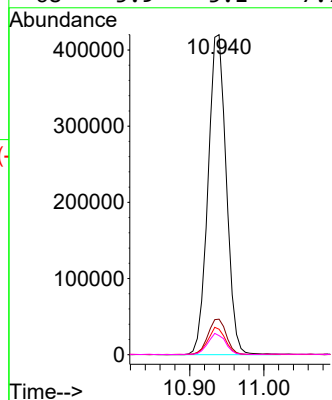
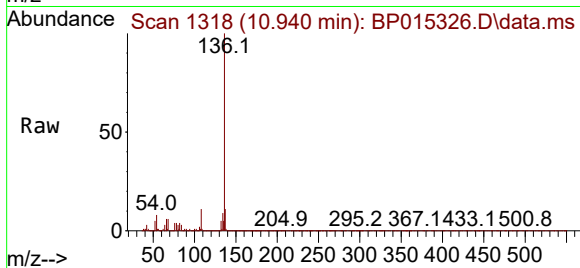
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.9 6.3 9.5

68 5.9 5.1 7.7



#23

Nitrobenzene-d5

Concen: 50.367 ng

RT: 9.287 min Scan# 1037

Delta R.T. -0.006 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

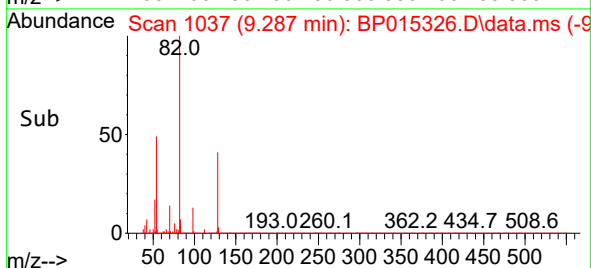
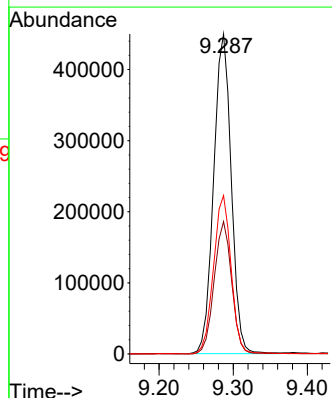
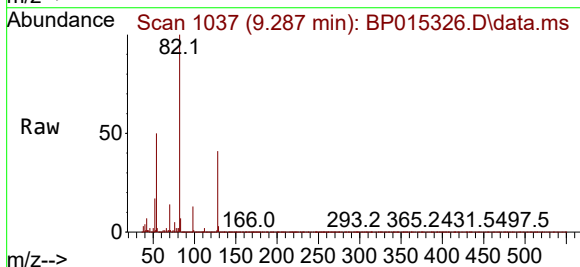
Tgt Ion: 82 Resp: 740372

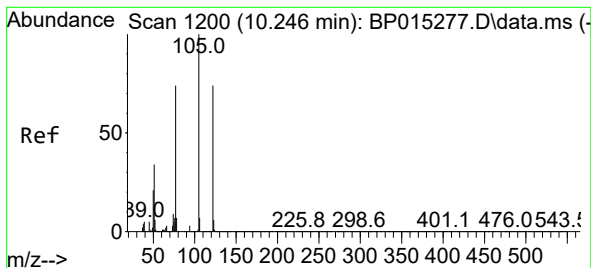
Ion Ratio Lower Upper

82 100

128 41.4 33.0 49.4

54 49.5 39.2 58.8





#32

Benzoic acid

Concen: 6.429 ng

RT: 10.181 min Scan# 1189

Delta R.T. -0.065 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

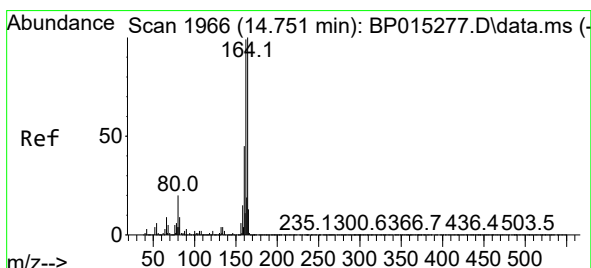
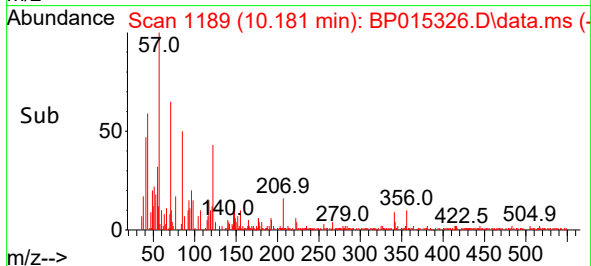
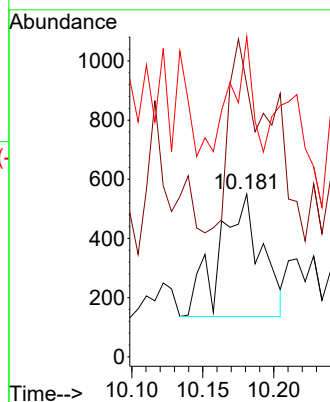
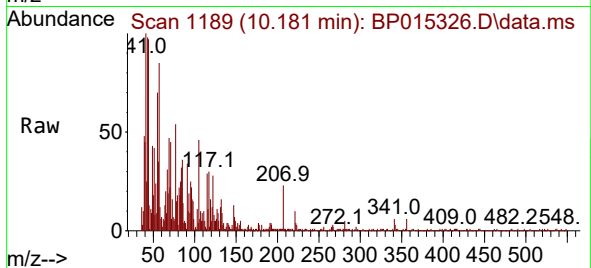
Tgt Ion:122 Resp: 850

Ion Ratio Lower Upper

122 100

105 167.1 109.5 149.5#

77 196.7 78.2 118.2#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.751 min Scan# 1966

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

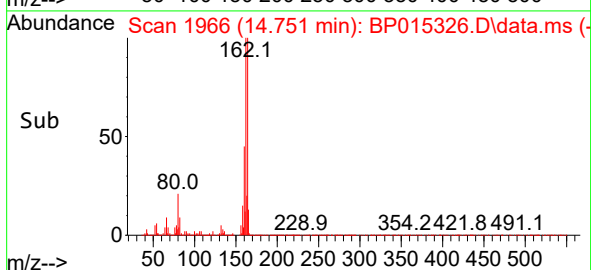
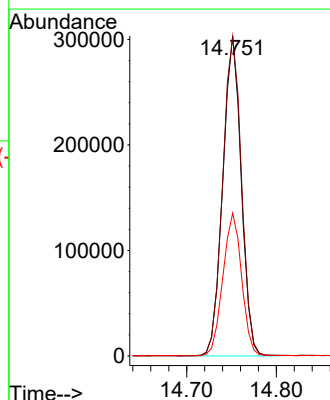
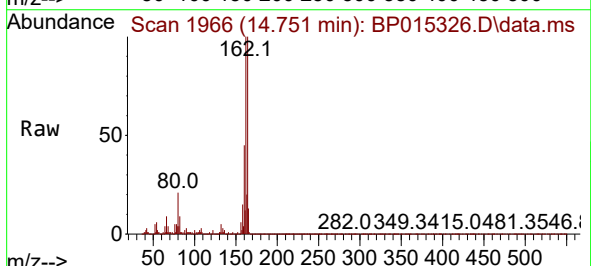
Tgt Ion:164 Resp: 431482

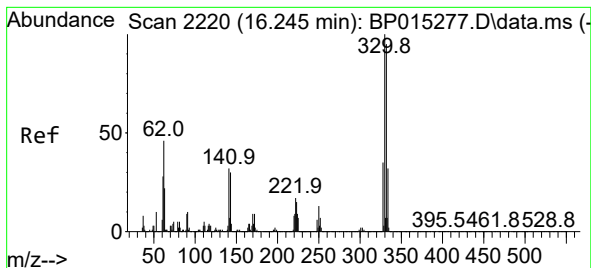
Ion Ratio Lower Upper

164 100

162 99.8 79.4 119.2

160 44.7 35.6 53.4

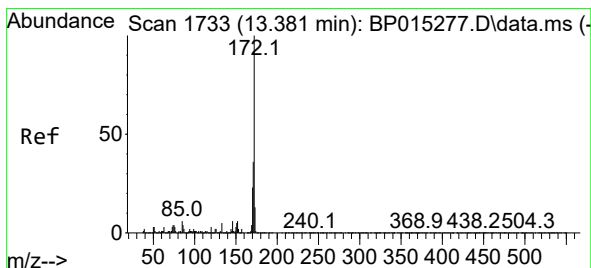
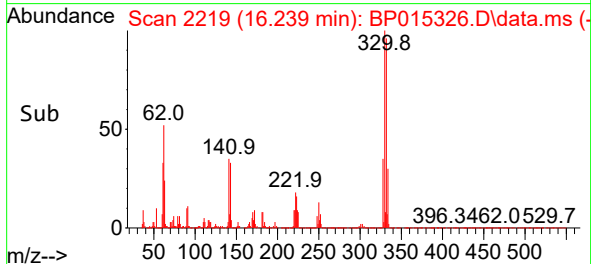
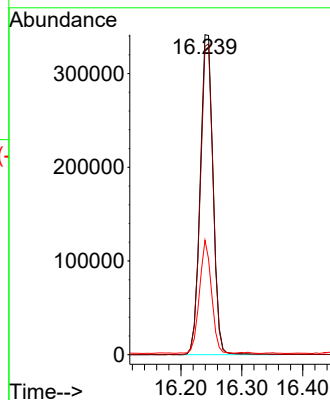
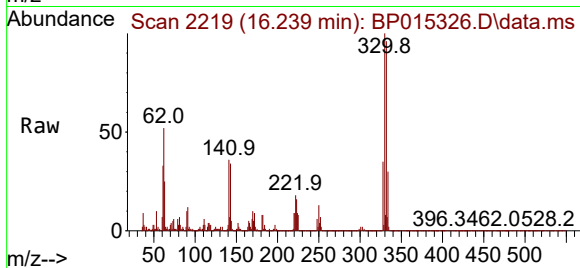




#42
2,4,6-Tribromophenol
Concen: 85.277 ng
RT: 16.239 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

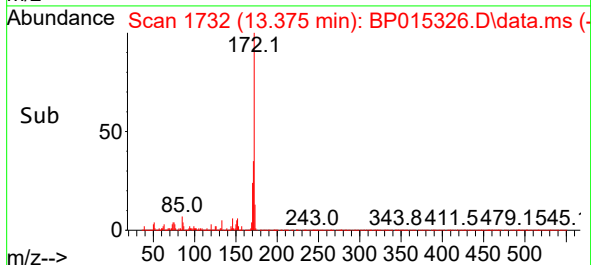
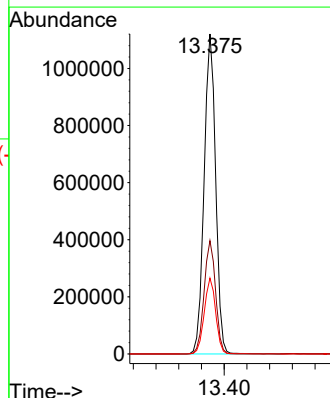
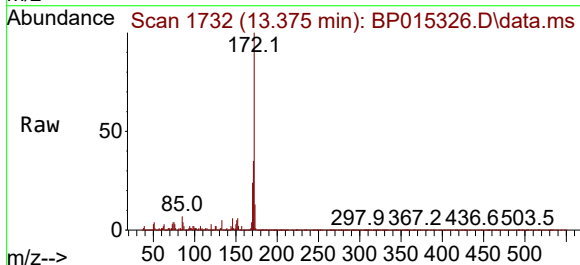
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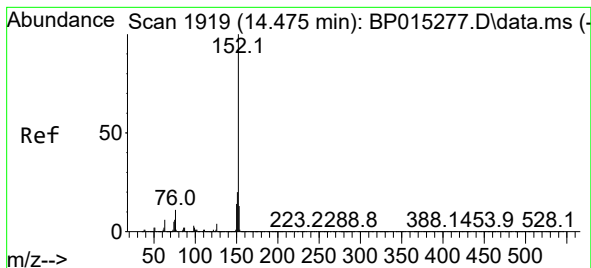
Tgt Ion:330 Resp: 500029
Ion Ratio Lower Upper
330 100
332 96.8 76.3 114.5
141 32.9 27.8 41.8



#45
2-Fluorobiphenyl
Concen: 49.001 ng
RT: 13.375 min Scan# 1732
Delta R.T. -0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:172 Resp: 1574830
Ion Ratio Lower Upper
172 100
171 35.4 28.4 42.6
170 23.7 18.7 28.1





#49

Acenaphthylene

Concen: 11.904 ng

RT: 14.475 min Scan# 1919

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

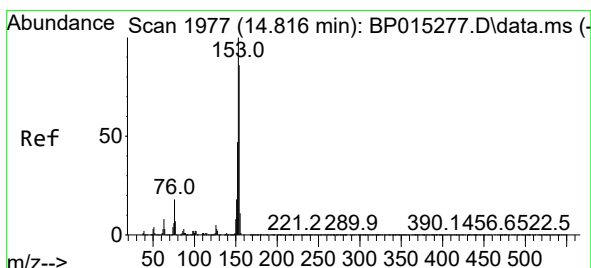
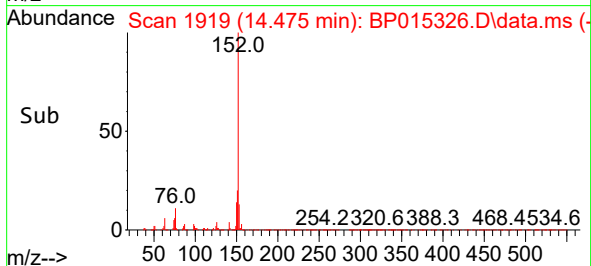
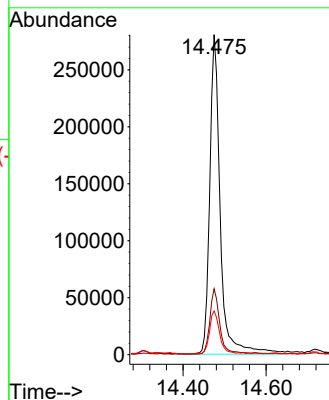
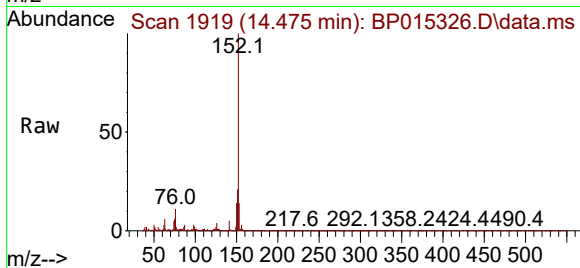
Tgt Ion:152 Resp: 491233

Ion Ratio Lower Upper

152 100

151 20.6 16.0 24.0

153 13.6 10.6 16.0



#52

Acenaphthene

Concen: 4.053 ng

RT: 14.816 min Scan# 1977

Delta R.T. -0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

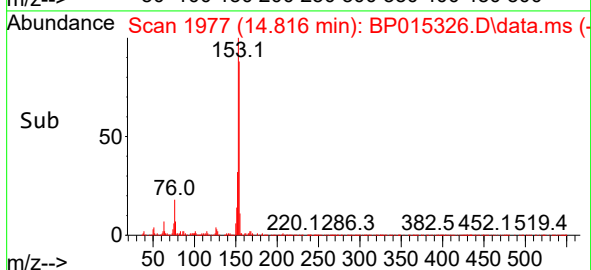
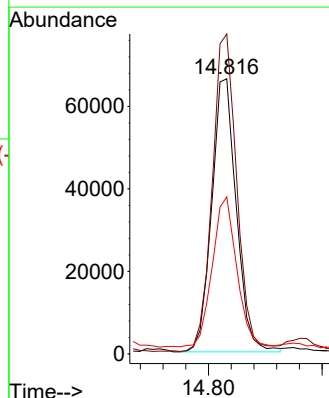
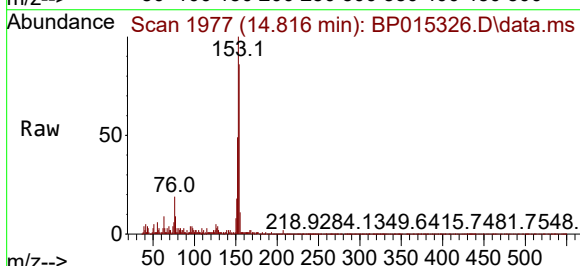
Tgt Ion:154 Resp: 99624

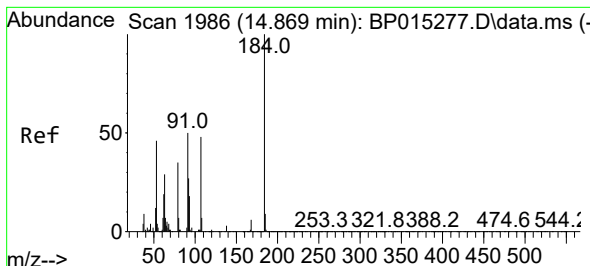
Ion Ratio Lower Upper

154 100

153 116.3 92.8 139.2

152 57.1 44.0 66.0

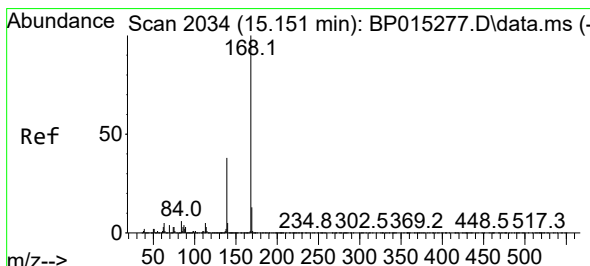
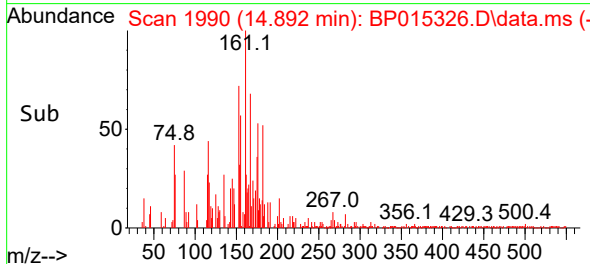
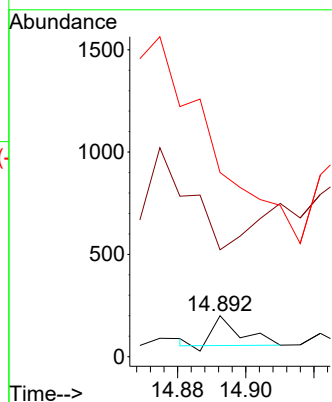
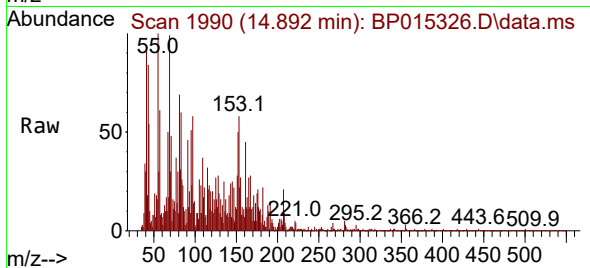




#54
2,4-Dinitrophenol
Concen: 5.202 ng
RT: 14.892 min Scan# 1986
Delta R.T. 0.023 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

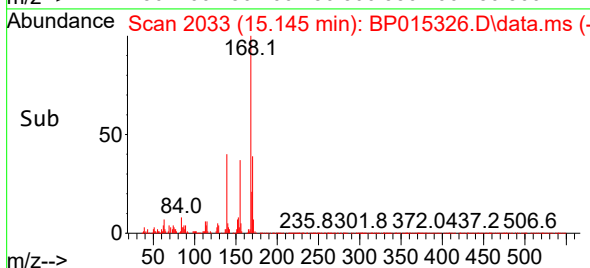
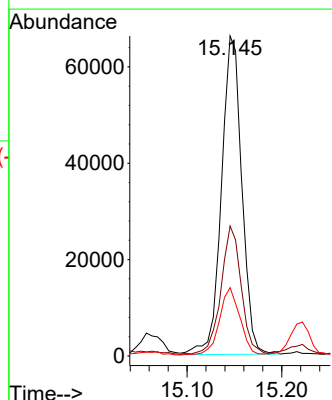
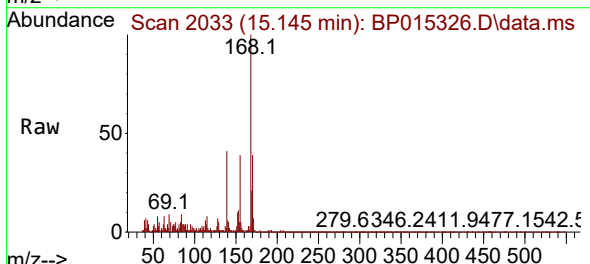
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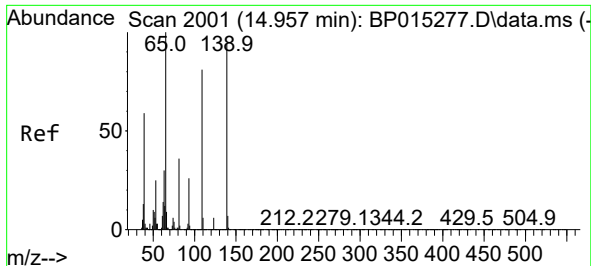
Tgt Ion:184 Resp: 77
Ion Ratio Lower Upper
184 100
63 261.0 56.2 84.4#
154 450.0 53.2 79.8#



#55
Dibenzofuran
Concen: 2.460 ng
RT: 15.145 min Scan# 2033
Delta R.T. -0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:168 Resp: 98905
Ion Ratio Lower Upper
168 100
139 40.6 30.1 45.1
169 21.3 10.6 15.8#

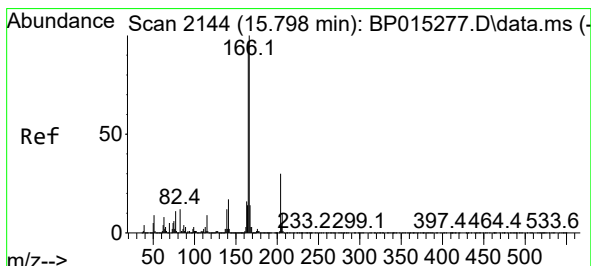
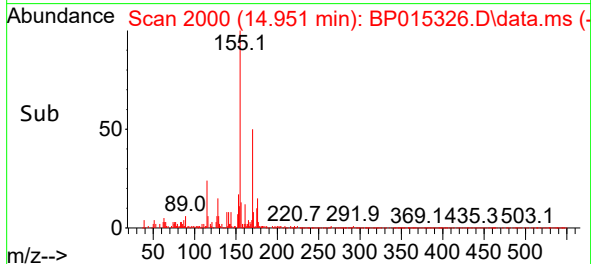
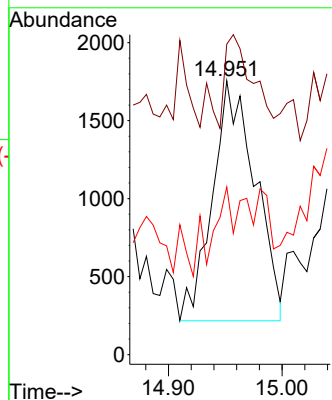
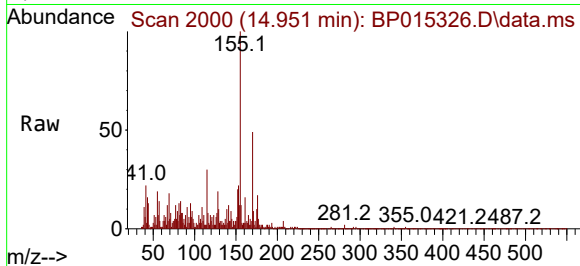




#56
4-Nitrophenol
Concen: 4.031 ng
RT: 14.951 min Scan# 2000
Delta R.T. -0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

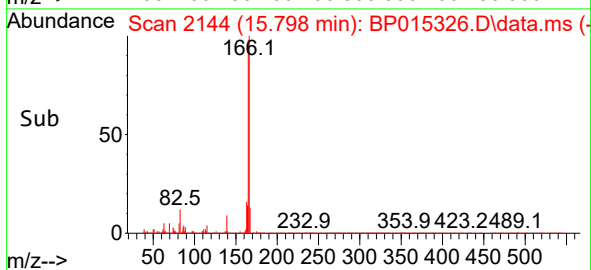
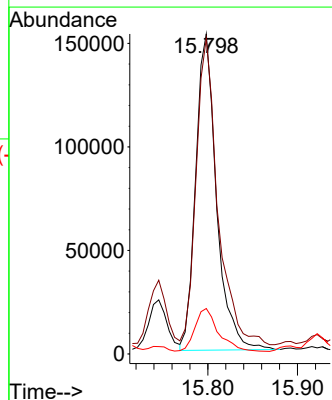
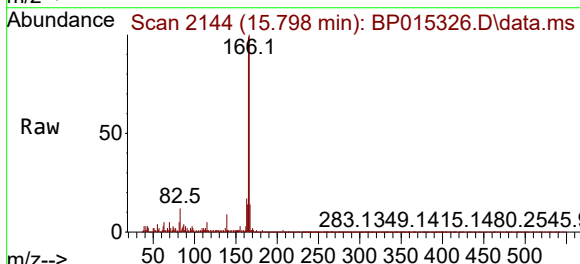
Instrument :
BNA_P
ClientSampleId :
ORA-1618

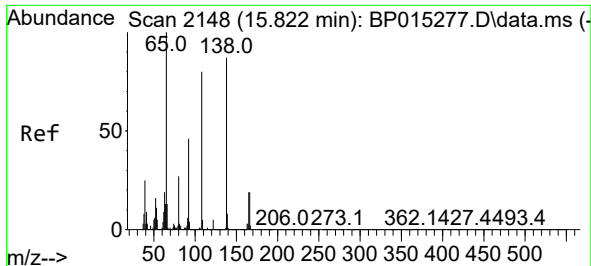
Tgt Ion:139 Resp: 4023
Ion Ratio Lower Upper
139 100
109 113.4 66.5 106.5#
65 61.2 86.6 126.6#



#58
Fluorene
Concen: 7.914 ng
RT: 15.798 min Scan# 2144
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:166 Resp: 245743
Ion Ratio Lower Upper
166 100
165 98.7 77.5 116.3
167 14.2 10.9 16.3

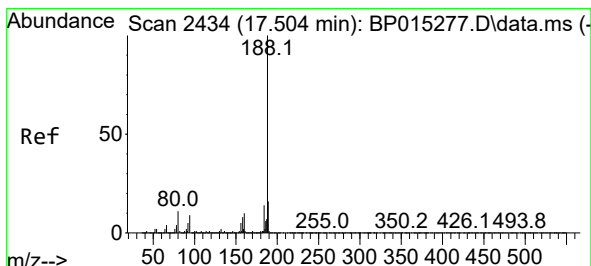
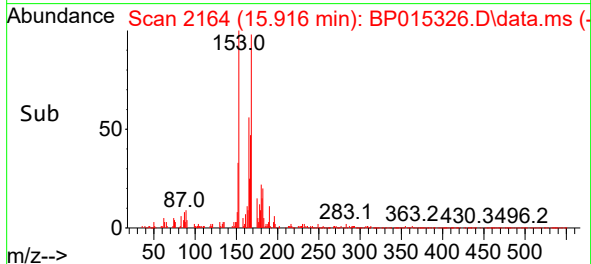
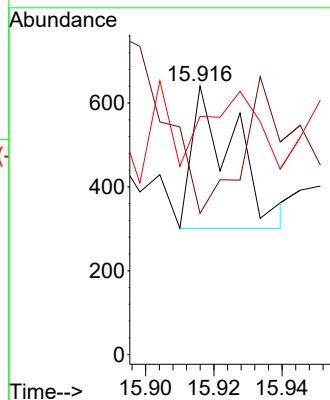
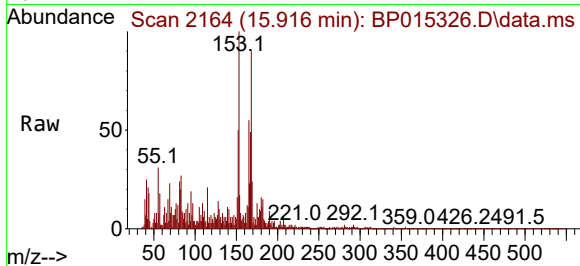




#62
4-Nitroaniline
Concen: 2.341 ng
RT: 15.916 min Scan# 2148
Delta R.T. 0.094 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

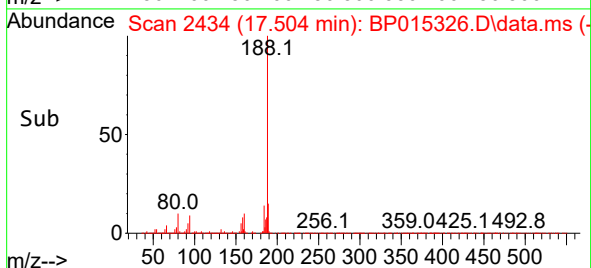
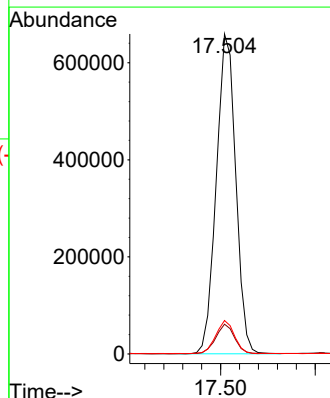
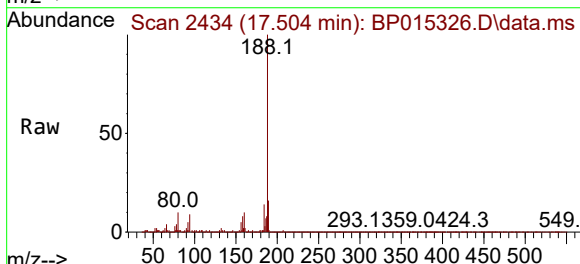
Instrument :
BNA_P
ClientSampleId :
ORA-1618

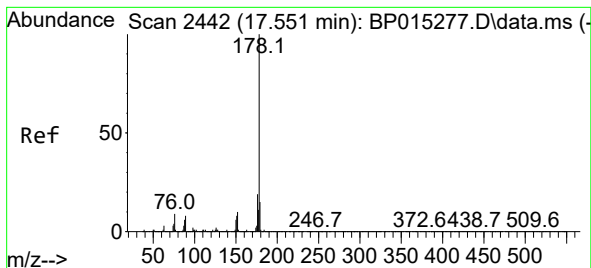
Tgt Ion:138 Resp: 295
Ion Ratio Lower Upper
138 100
92 52.7 33.1 73.1
108 88.8 71.0 111.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.504 min Scan# 2434
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:188 Resp: 938482
Ion Ratio Lower Upper
188 100
94 9.3 7.4 11.0
80 10.4 8.6 13.0





#71

Phenanthrene

Concen: 36.442 ng

RT: 17.551 min Scan# 2442

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

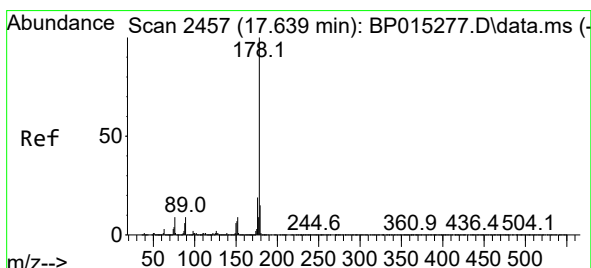
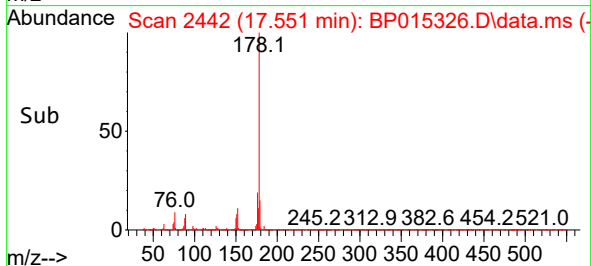
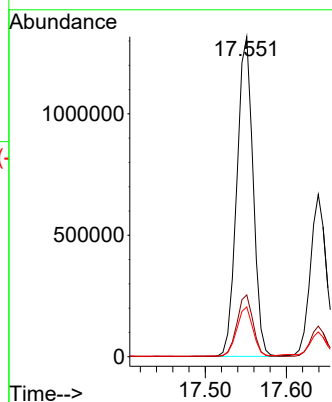
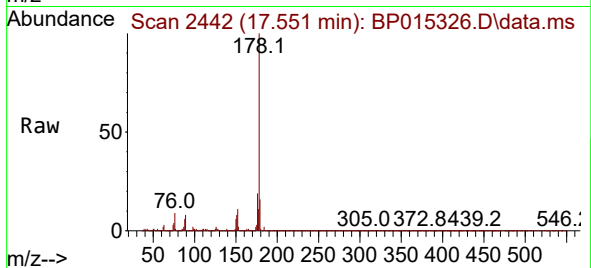
Tgt Ion:178 Resp: 1822787

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.5 12.3 18.5



#72

Anthracene

Concen: 18.084 ng

RT: 17.639 min Scan# 2457

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

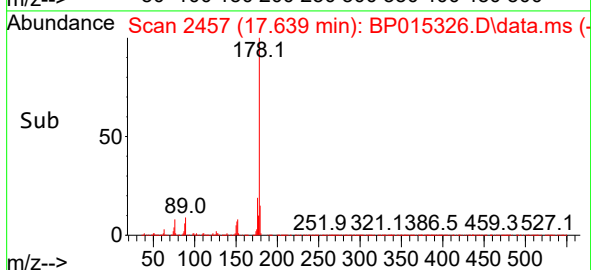
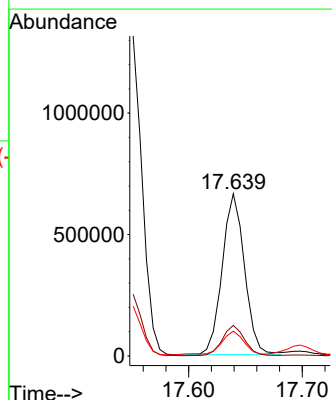
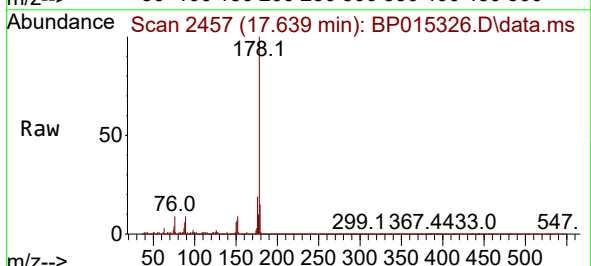
Tgt Ion:178 Resp: 905875

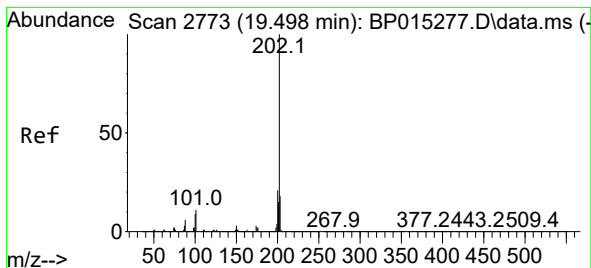
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.3 12.2 18.4





#75

Fluoranthene

Concen: 36.921 ng

RT: 19.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

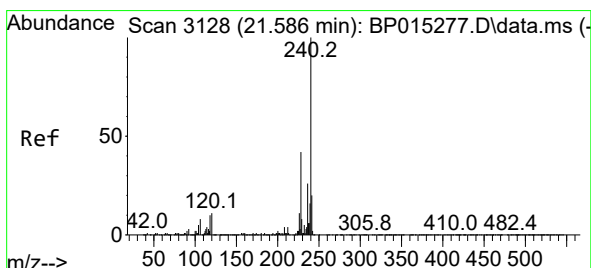
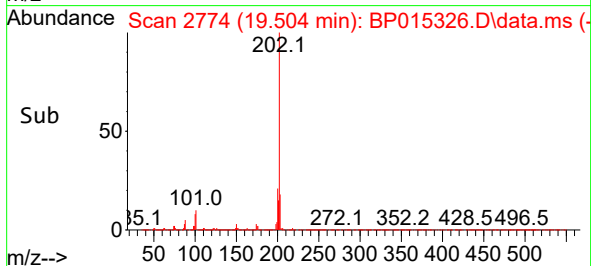
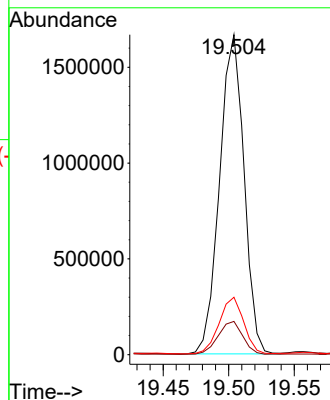
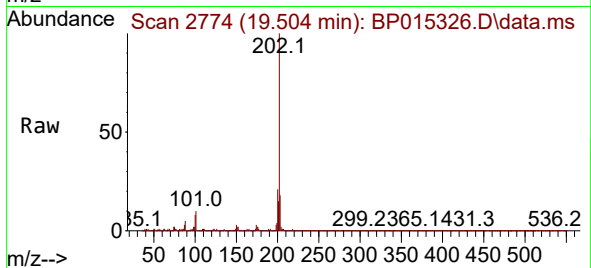
Tgt Ion:202 Resp: 2157356

Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.4

203 17.9 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.586 min Scan# 3128

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

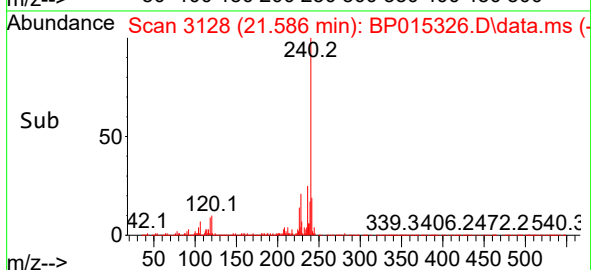
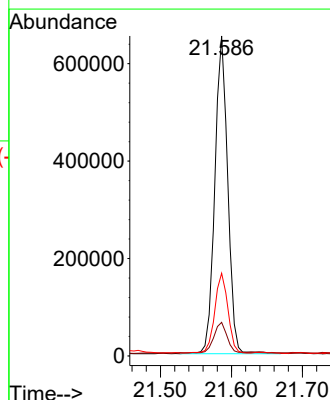
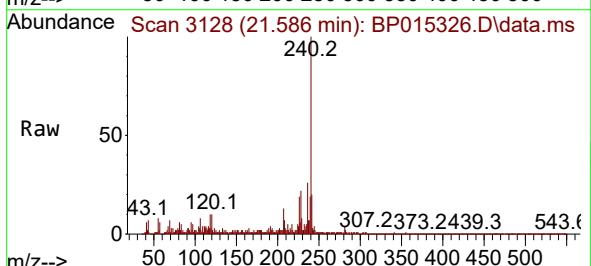
Tgt Ion:240 Resp: 822163

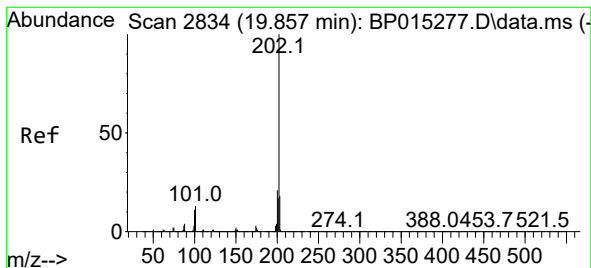
Ion Ratio Lower Upper

240 100

120 10.5 8.8 13.2

236 25.9 20.5 30.7





#78

Pyrene

Concen: 41.119 ng

RT: 19.857 min Scan# 2834

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

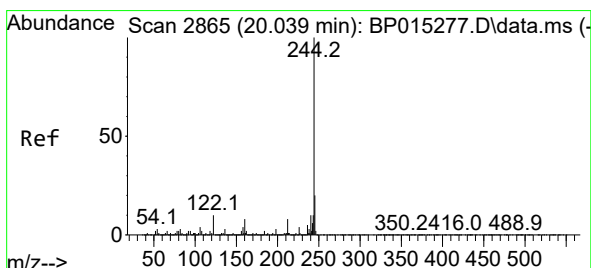
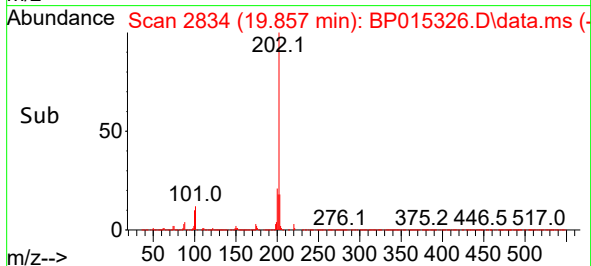
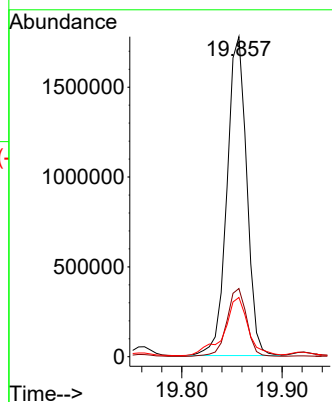
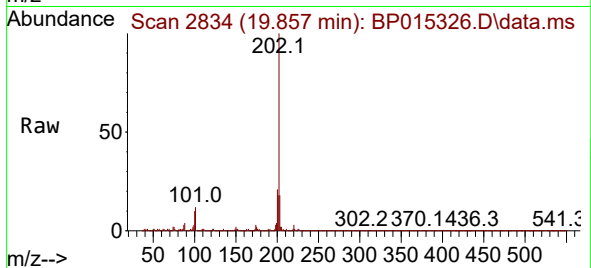
Tgt Ion:202 Resp: 2418847

Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 18.5 14.2 21.2



#79

Terphenyl-d14

Concen: 51.722 ng

RT: 20.039 min Scan# 2865

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

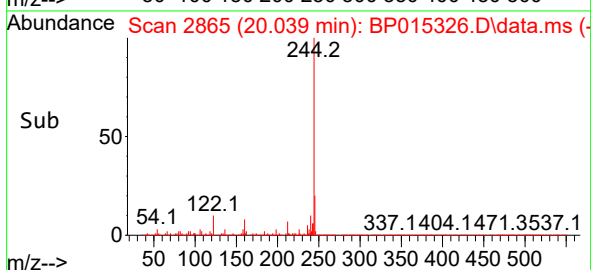
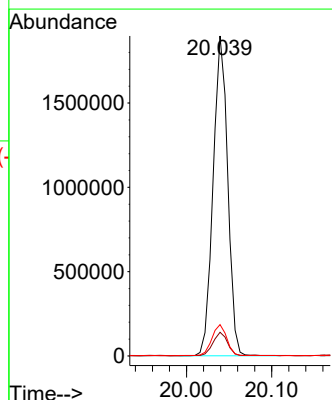
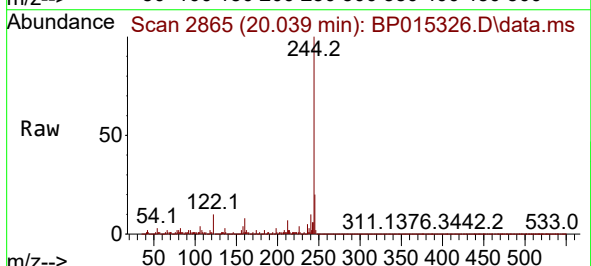
Tgt Ion:244 Resp: 2260739

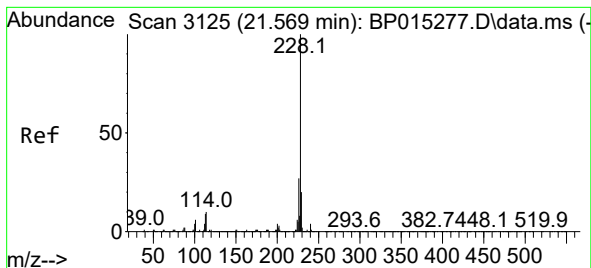
Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 9.8 8.2 12.4





#81

Benzo(a)anthracene

Concen: 17.541 ng

RT: 21.569 min Scan# 3125

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

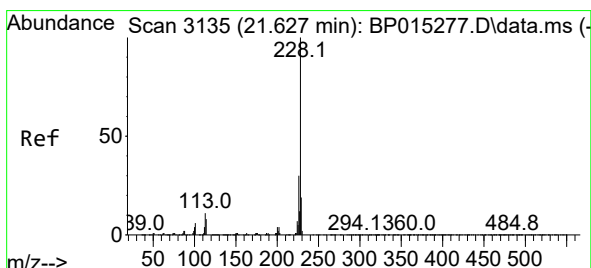
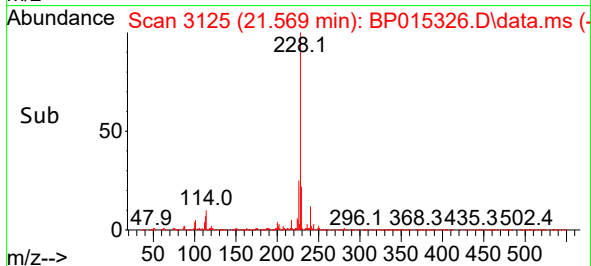
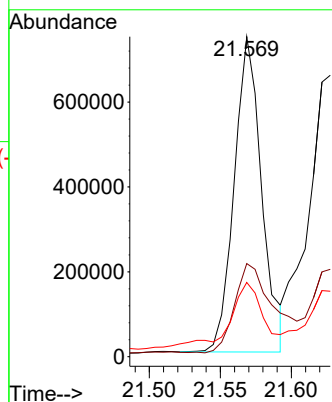
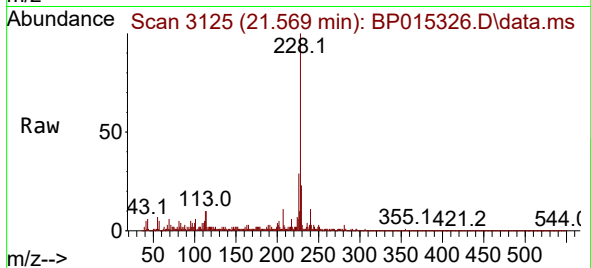
Tgt Ion:228 Resp: 1002050

Ion Ratio Lower Upper

228 100

226 29.1 21.7 32.5

229 23.2 15.8 23.8



#83

Chrysene

Concen: 18.864 ng

RT: 21.627 min Scan# 3135

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

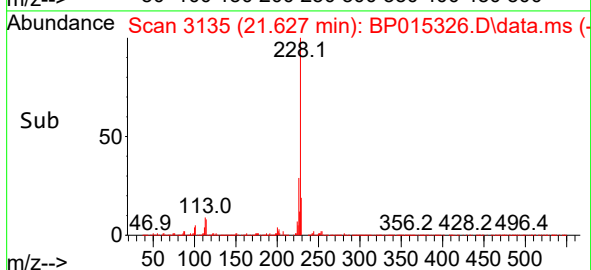
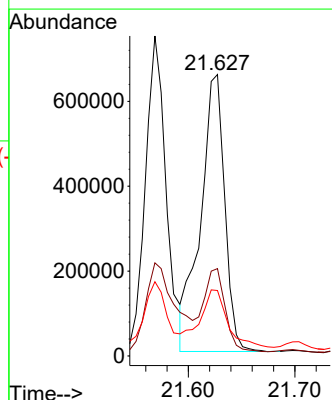
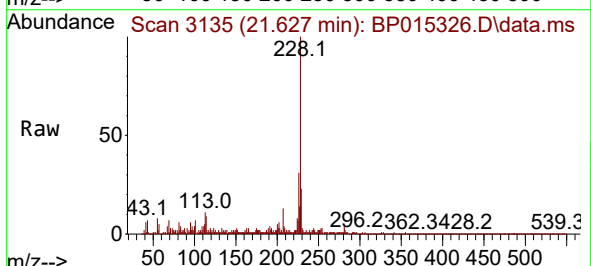
Tgt Ion:228 Resp: 1033329

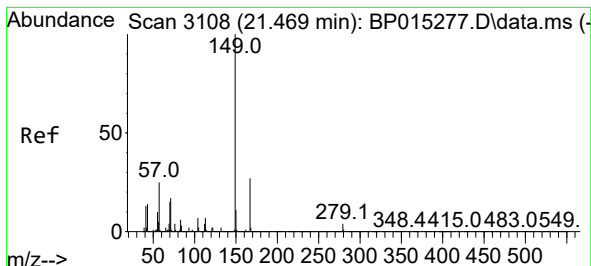
Ion Ratio Lower Upper

228 100

226 31.0 23.8 35.6

229 23.3 15.5 23.3

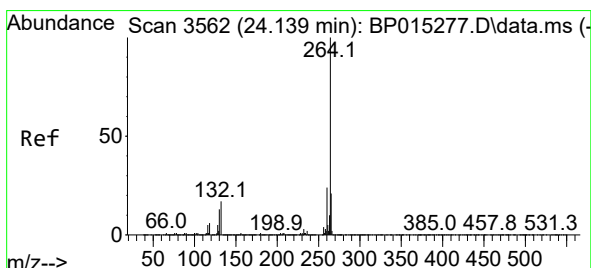
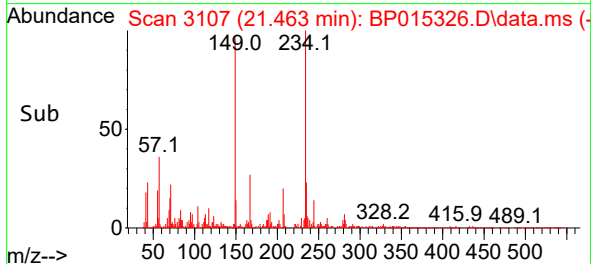
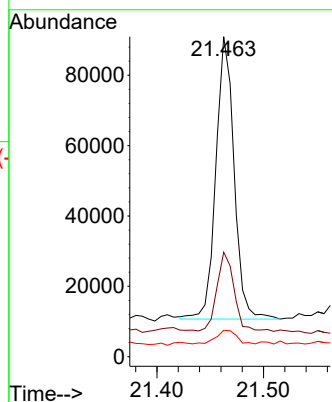
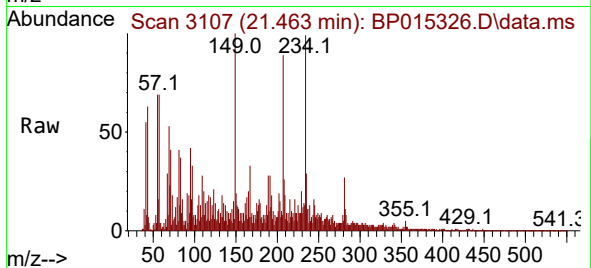




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 2.596 ng
 RT: 21.463 min Scan# 3107
 Delta R.T. -0.006 min
 Lab File: BP015326.D
 Acq: 27 May 2023 00:42

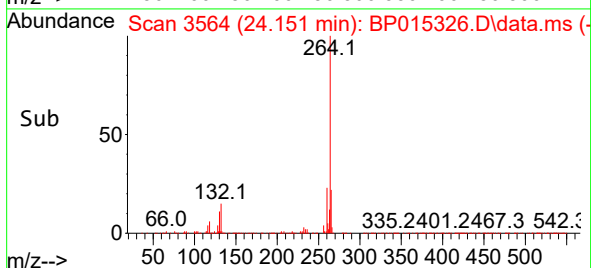
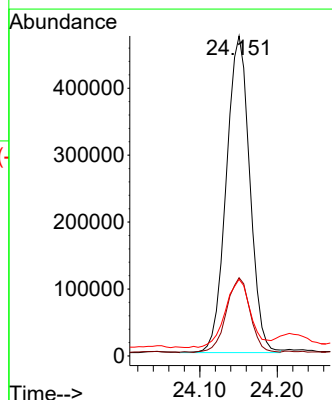
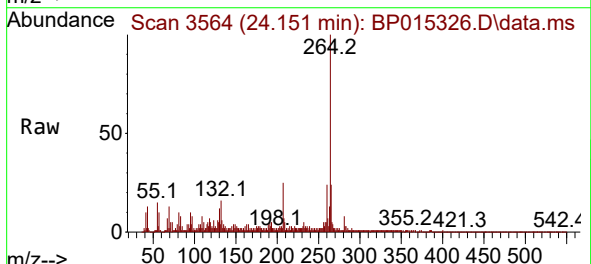
Instrument :
 BNA_P
 ClientSampleId :
 ORA-1618

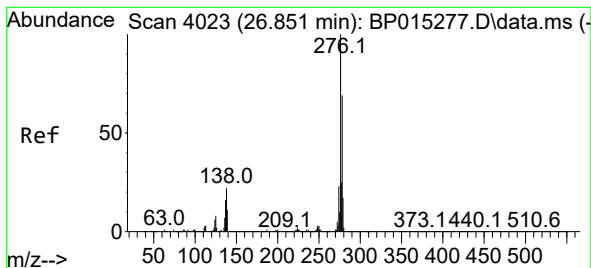
Tgt Ion:149 Resp: 95322
 Ion Ratio Lower Upper
 149 100
 167 32.7 21.6 32.4#
 279 8.3 3.5 5.3#



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.151 min Scan# 3564
 Delta R.T. 0.012 min
 Lab File: BP015326.D
 Acq: 27 May 2023 00:42

Tgt Ion:264 Resp: 996376
 Ion Ratio Lower Upper
 264 100
 260 24.5 19.0 28.6
 265 24.0 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.432 ng

RT: 26.862 min Scan# 4023

Delta R.T. 0.012 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

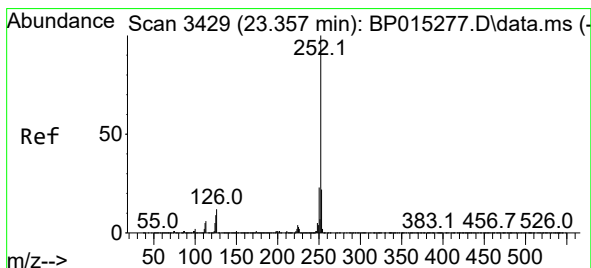
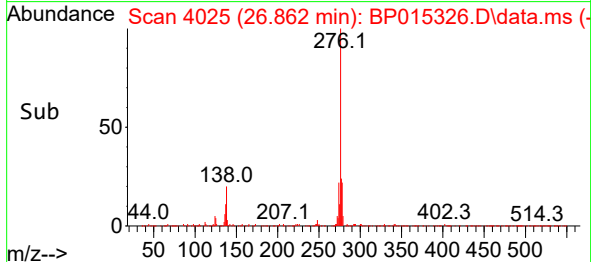
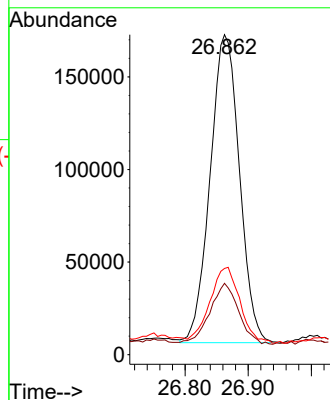
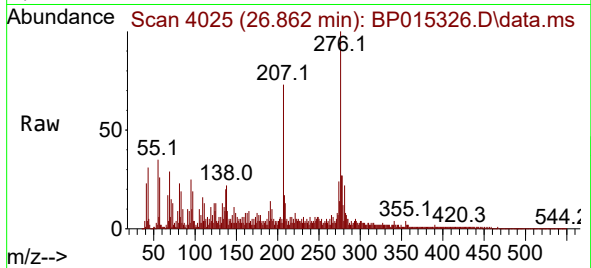
Tgt Ion:276 Resp: 536744

Ion Ratio Lower Upper

276 100

138 19.5 19.0 28.6

277 24.7 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 17.647 ng

RT: 23.363 min Scan# 3430

Delta R.T. 0.006 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

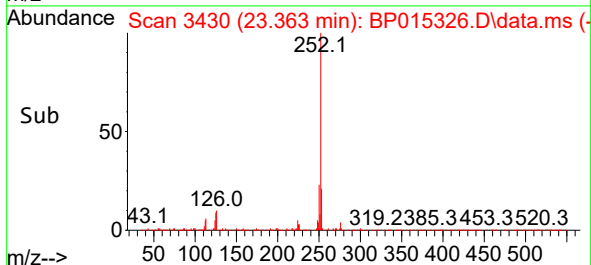
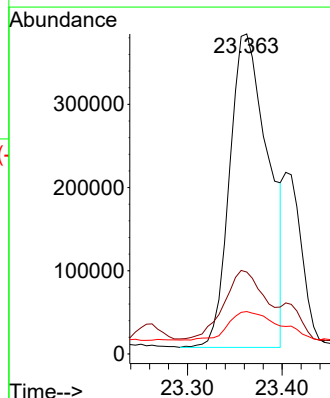
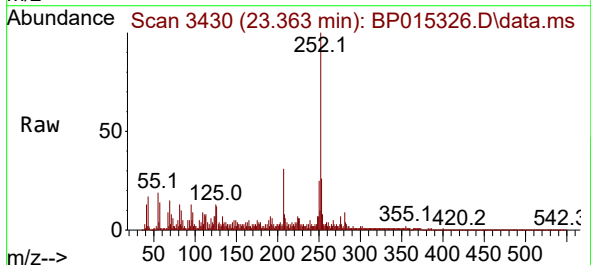
Tgt Ion:252 Resp: 1069062

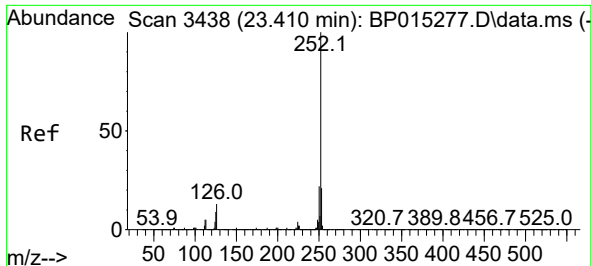
Ion Ratio Lower Upper

252 100

253 25.6 17.4 26.2

125 13.3 7.2 10.8#

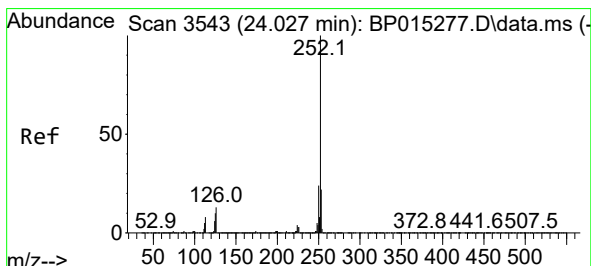
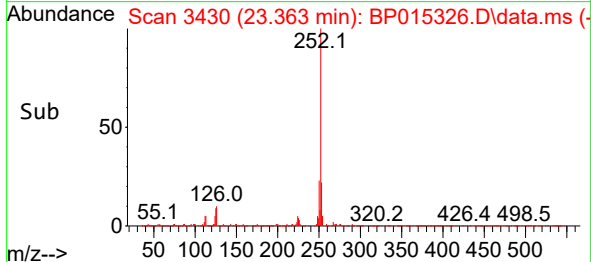
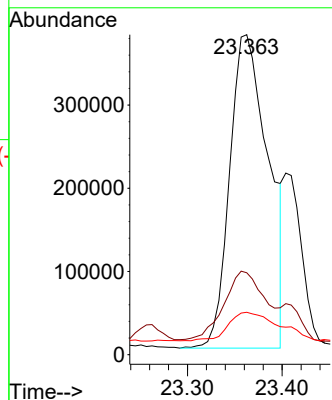
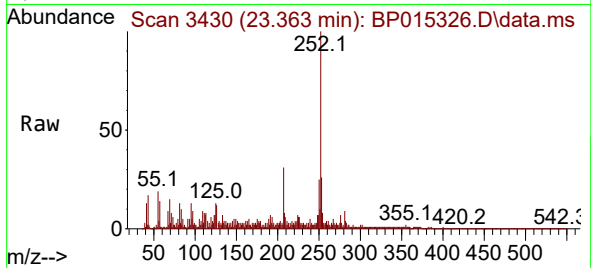




#89
Benzo(k)fluoranthene
Concen: 17.525 ng
RT: 23.363 min Scan# 3438
Delta R.T. -0.047 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

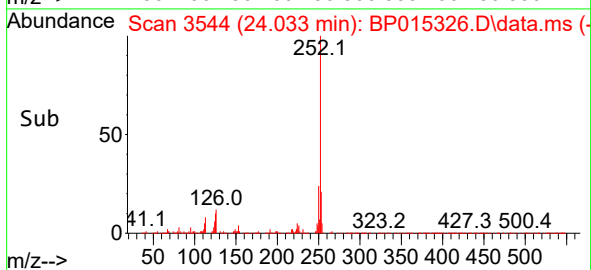
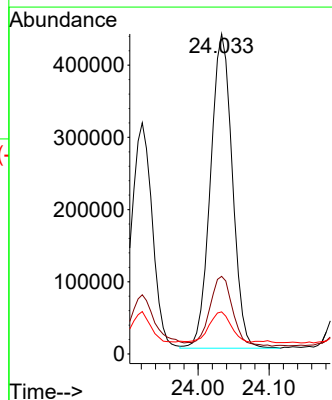
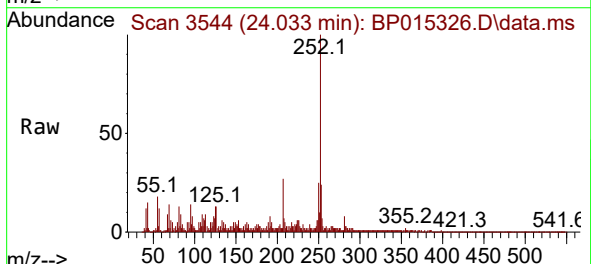
Instrument :
BNA_P
ClientSampleId :
ORA-1618

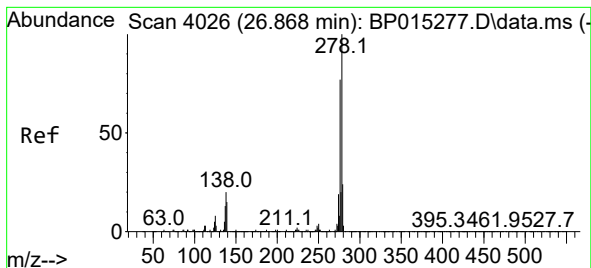
Tgt Ion:252 Resp: 1069062
Ion Ratio Lower Upper
252 100
253 25.6 17.0 25.4#
125 13.3 7.4 11.0#



#90
Benzo(a)pyrene
Concen: 15.867 ng
RT: 24.033 min Scan# 3544
Delta R.T. 0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:252 Resp: 928007
Ion Ratio Lower Upper
252 100
253 24.3 17.4 26.2
125 13.2 8.4 12.6#





#91

Dibenzo(a,h)anthracene

Concen: 2.827 ng

RT: 26.868 min Scan# 4026

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

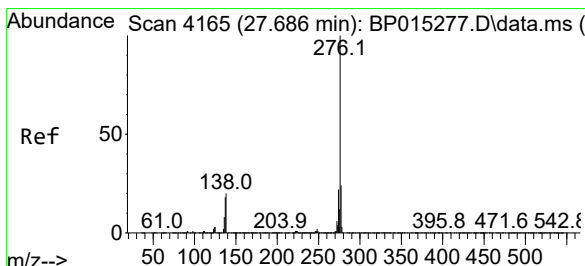
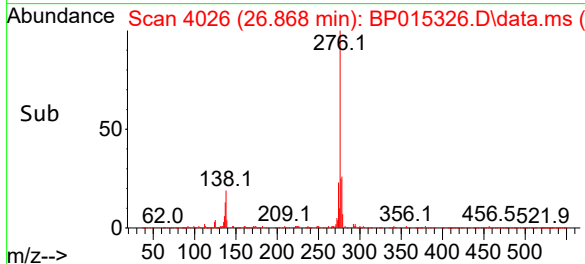
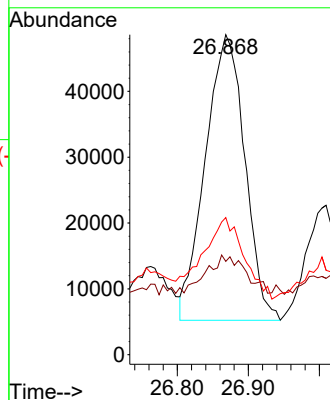
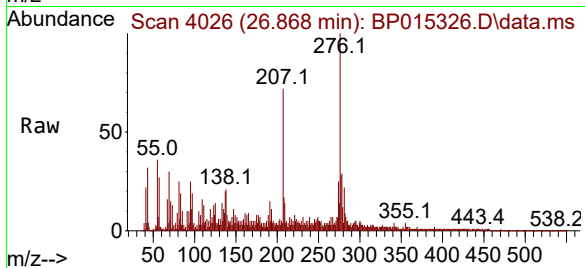
Tgt Ion:278 Resp: 167643

Ion Ratio Lower Upper

278 100

139 29.2 12.3 18.5#

279 42.8 19.3 28.9#



#92

Benzo(g,h,i)perylene

Concen: 10.537 ng

RT: 27.709 min Scan# 4169

Delta R.T. 0.024 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Tgt Ion:276 Resp: 635006

Ion Ratio Lower Upper

276 100

277 25.2 19.0 28.6

138 19.8 16.2 24.2

