

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
 Data File : BP019928.D
 Acq On : 28 Feb 2024 21:43
 Operator : MA/JU
 Sample : P1602-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 WC-1

Quant Time: Feb 29 00:37:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 02:05:05 2024
 Response via : Initial Calibration

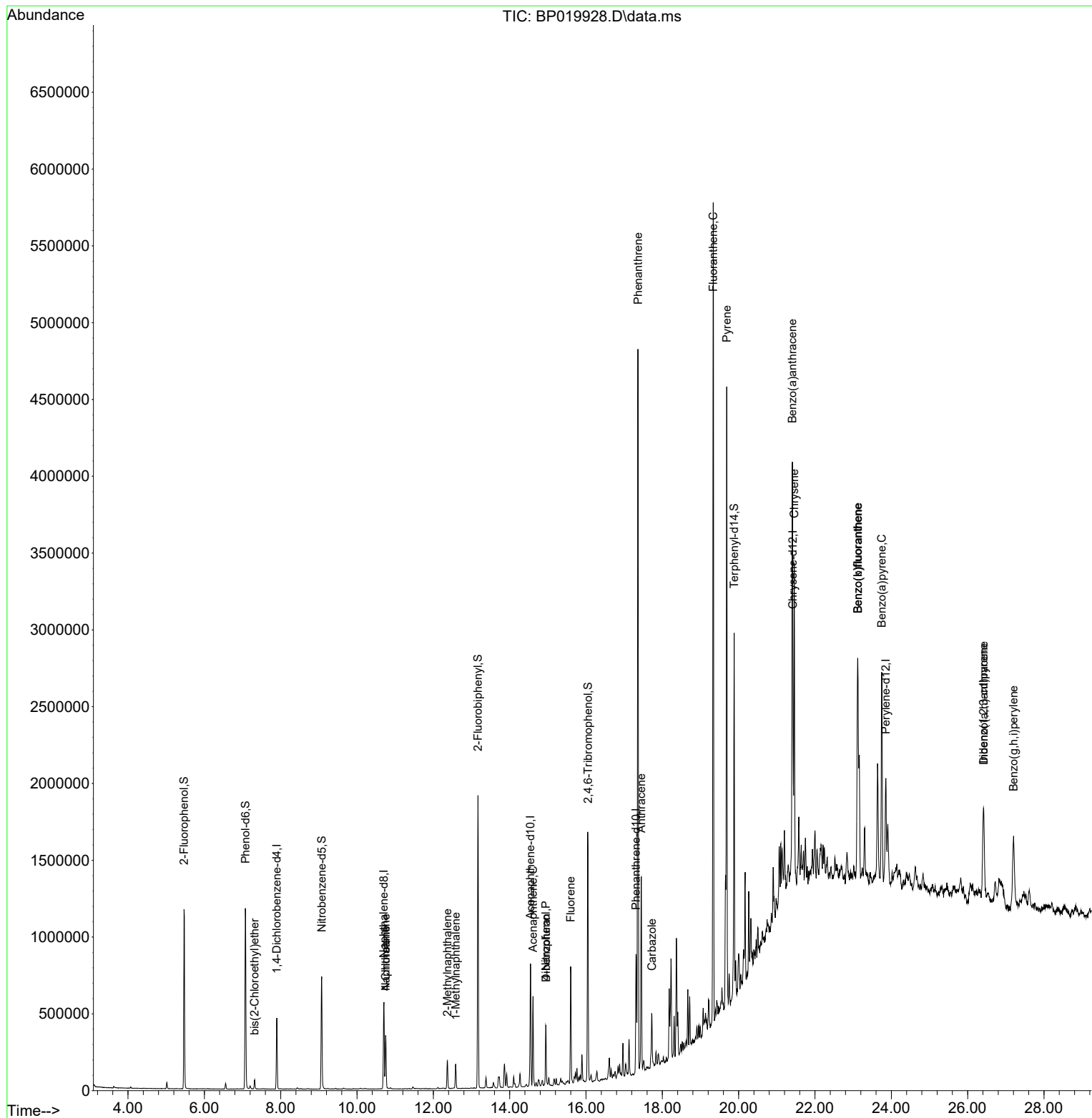
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.899	152	123157	20.000	ng	0.00
21) Naphthalene-d8	10.704	136	462816	20.000	ng	0.00
39) Acenaphthene-d10	14.545	164	292179	20.000	ng	0.00
64) Phenanthrene-d10	17.310	188	529618	20.000	ng	0.00
76) Chrysene-d12	21.422	240	460163	20.000	ng	0.01
86) Perylene-d12	23.857	264	555323	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	487264	64.940	ng	0.00
7) Phenol-d6	7.075	99	668780	59.866	ng	0.00
23) Nitrobenzene-d5	9.075	82	447999	39.079	ng	0.00
42) 2,4,6-Tribromophenol	16.051	330	306433	61.166	ng	0.00
45) 2-Fluorobiphenyl	13.169	172	986879	45.636	ng	0.00
79) Terphenyl-d14	19.880	244	1145037	39.220	ng	0.00
Target Compounds						
11) bis(2-Chloroethyl)ether	7.316	93	22076	2.516	ng	# 27
31) Naphthalene	10.752	128	282921	11.417	ng	99
33) 4-Chloroaniline	10.752	127	37240	3.308	ng	# 35
37) 2-Methylnaphthalene	12.369	142	87180	4.532	ng	98
38) 1-Methylnaphthalene	12.587	142	74614	4.099	ng	95
52) Acenaphthene	14.610	154	202362	12.811	ng	99
55) Dibenzofuran	14.951	168	233103	8.647	ng	98
56) 4-Nitrophenol	14.945	139	89884	22.612	ng	# 1
58) Fluorene	15.598	166	340368	15.568	ng	99
71) Phenanthrene	17.363	178	3017890	106.755	ng	100
72) Anthracene	17.451	178	828362	28.705	ng	99
73) Carbazole	17.728	167	227235	8.891	ng	99
75) Fluoranthene	19.333	202	3379225	92.108	ng	98
78) Pyrene	19.686	202	2567436	81.207	ng	100
81) Benzo(a)anthracene	21.404	228	1478258	45.256	ng	98
83) Chrysene	21.457	228	1176157	38.427	ng	97
87) Indeno(1,2,3-cd)pyrene	26.415	276	728560	18.636	ng	# 96
88) Benzo(b)fluoranthene	23.121	252	1521506	44.689	ng	98
89) Benzo(k)fluoranthene	23.121	252	1521506	45.568	ng	97
90) Benzo(a)pyrene	23.751	252	1115825	34.294	ng	97
91) Dibenzo(a,h)anthracene	26.421	278	198706	6.046	ng	# 83
92) Benzo(g,h,i)perylene	27.204	276	654589	20.632	ng	95

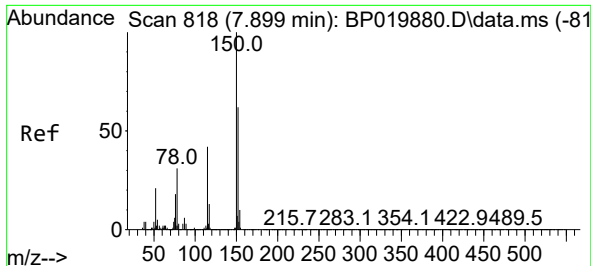
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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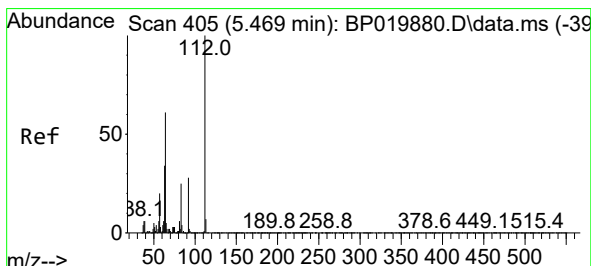
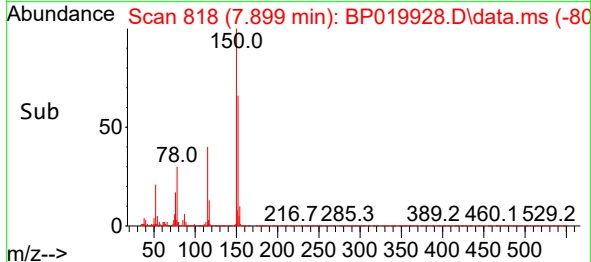
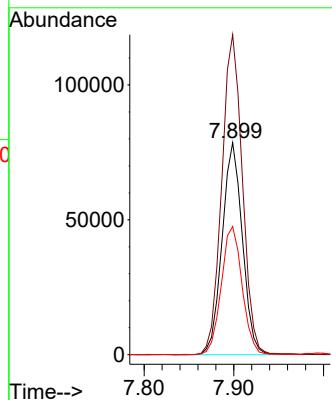
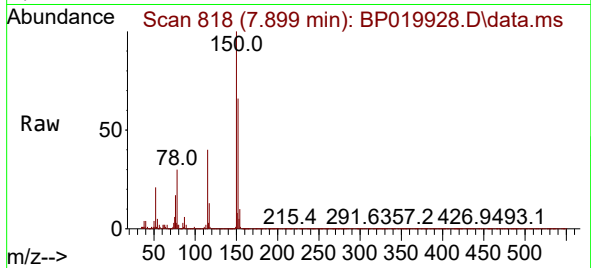




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.899 min Scan# 818
Delta R.T. -0.000 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

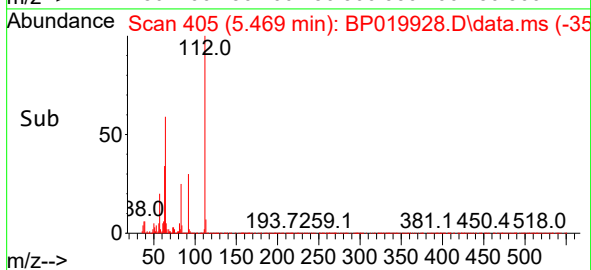
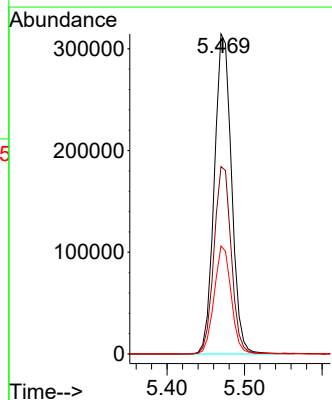
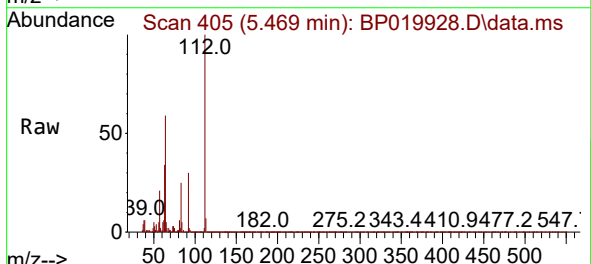
Instrument :
BNA_P
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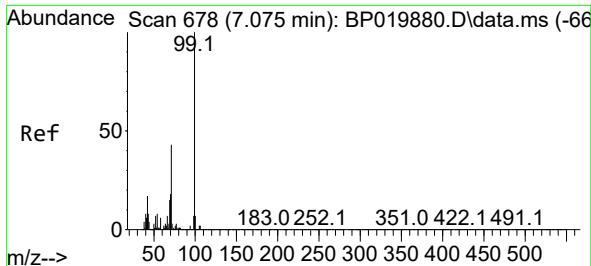
Tgt Ion:152 Resp: 123157
Ion Ratio Lower Upper
152 100
150 150.9 128.6 192.8
115 60.5 53.4 80.2



#5
2-Fluorophenol
Concen: 64.940 ng
RT: 5.469 min Scan# 405
Delta R.T. 0.000 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

Tgt Ion:112 Resp: 487264
Ion Ratio Lower Upper
112 100
64 58.5 49.0 73.6
63 33.7 27.6 41.4

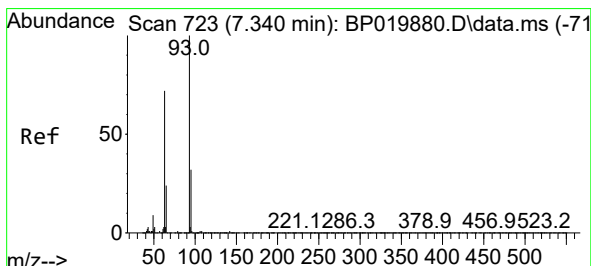
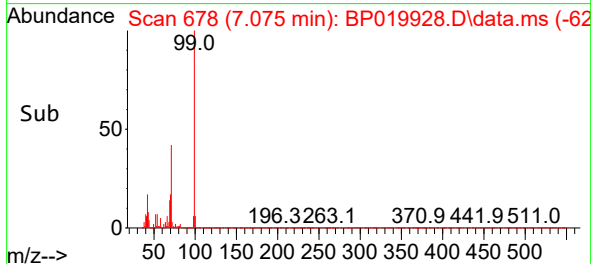
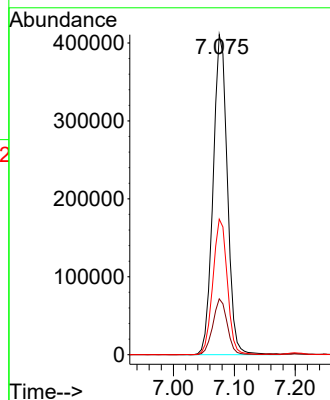
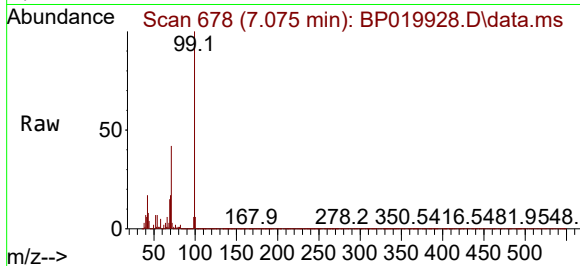




#7
Phenol-d6
Concen: 59.866 ng
RT: 7.075 min Scan# 61
Delta R.T. 0.000 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

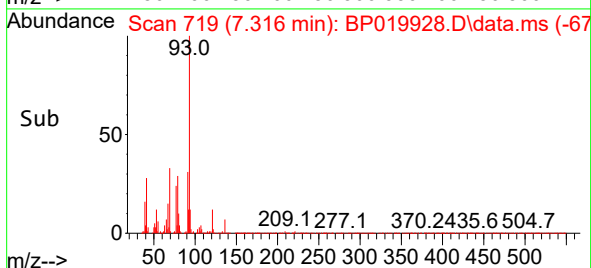
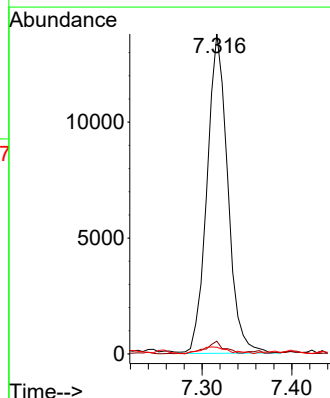
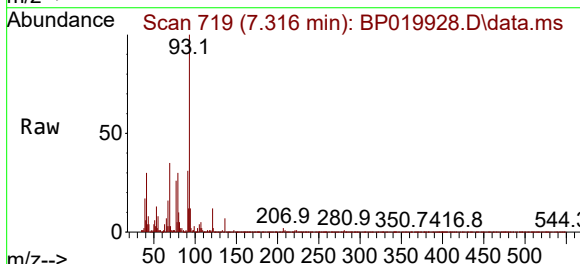
Instrument :
BNA_P
ClientSampleId :
WC-1

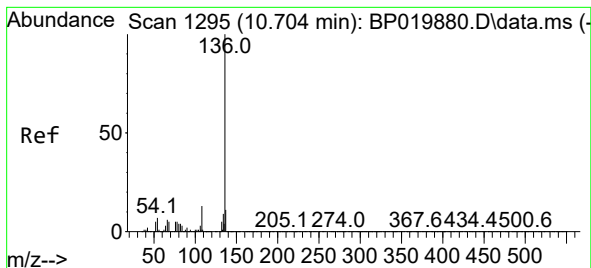
Tgt Ion: 99 Resp: 668780
Ion Ratio Lower Upper
99 100
42 17.4 13.8 20.8
71 42.3 34.5 51.7



#11
bis(2-Chloroethyl)ether
Concen: 2.516 ng
RT: 7.316 min Scan# 719
Delta R.T. -0.023 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

Tgt Ion: 93 Resp: 22076
Ion Ratio Lower Upper
93 100
63 4.0 52.0 92.0#
95 2.1 11.6 51.6#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.704 min Scan# 1295

Delta R.T. 0.000 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

Tgt Ion:136 Resp: 462816

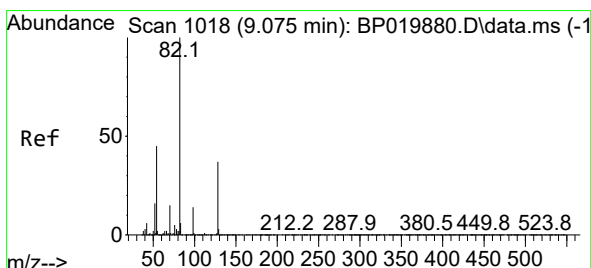
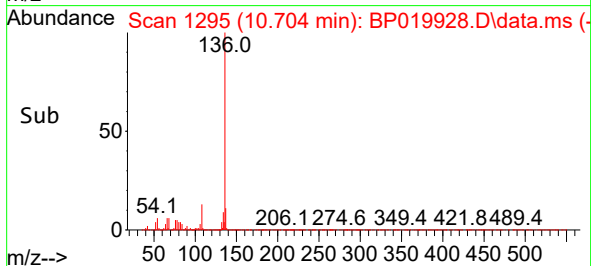
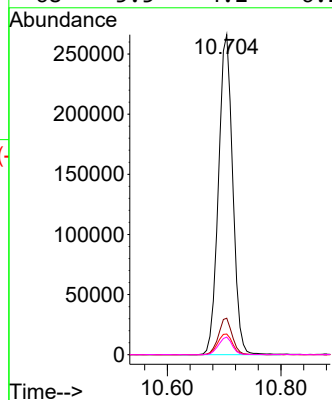
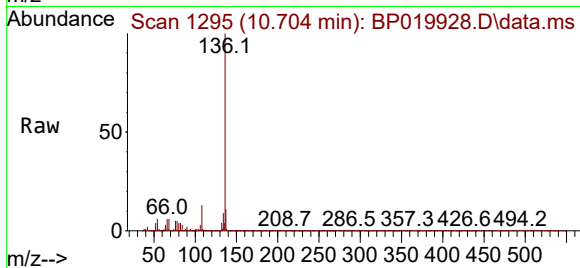
Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 6.5 6.0 9.0

68 5.5 4.2 6.2



#23

Nitrobenzene-d5

Concen: 39.079 ng

RT: 9.075 min Scan# 1018

Delta R.T. 0.000 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

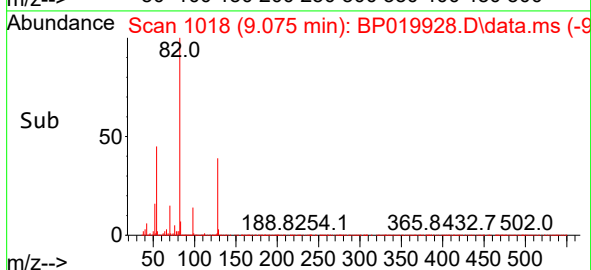
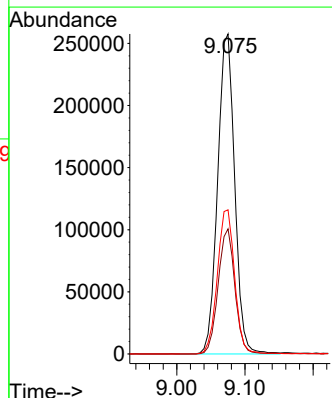
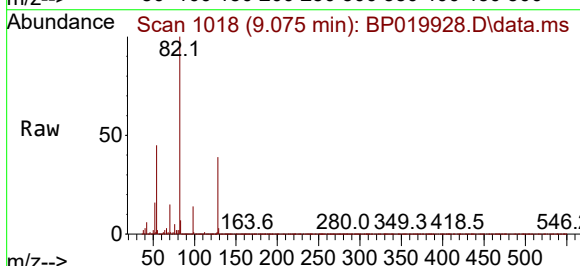
Tgt Ion: 82 Resp: 447999

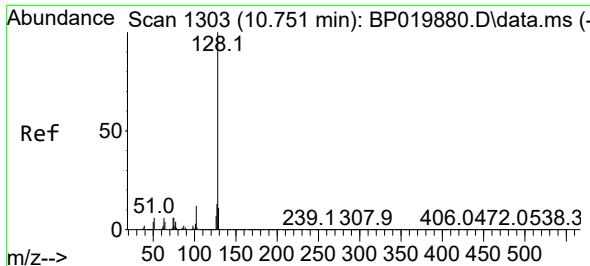
Ion Ratio Lower Upper

82 100

128 39.1 29.6 44.4

54 45.1 36.3 54.5

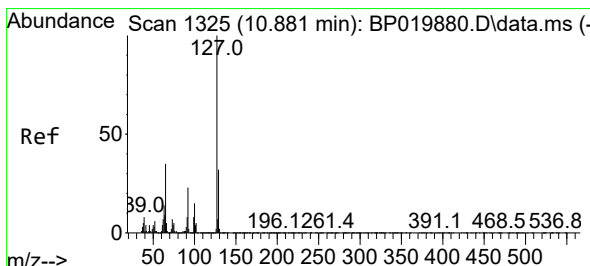
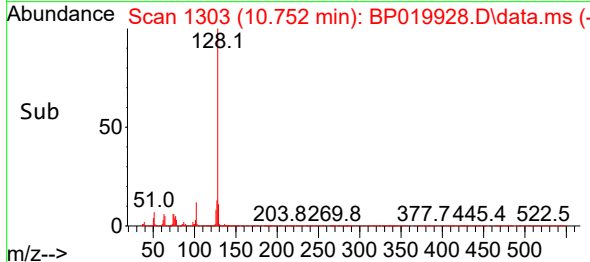
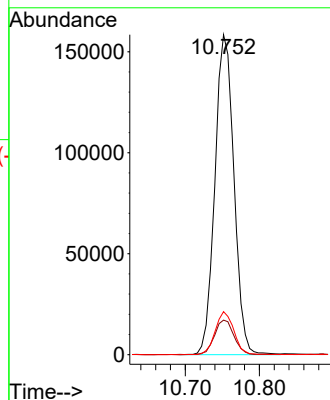
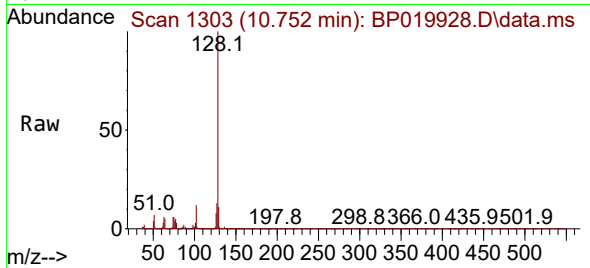




#31
Naphthalene
Concen: 11.417 ng
RT: 10.752 min Scan# 1303
Delta R.T. 0.000 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

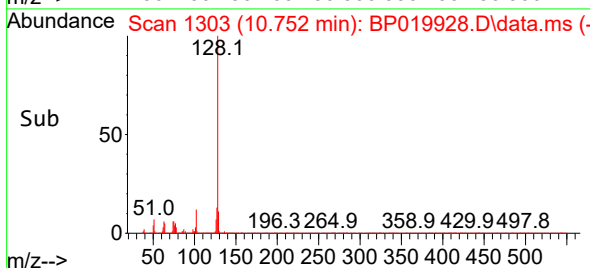
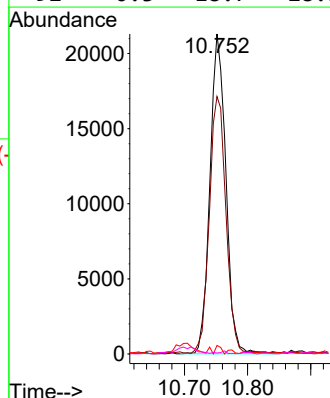
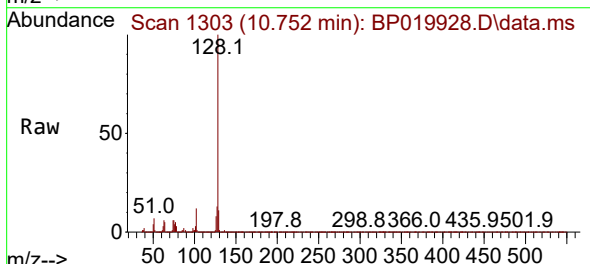
Instrument :
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ClientSampleId :
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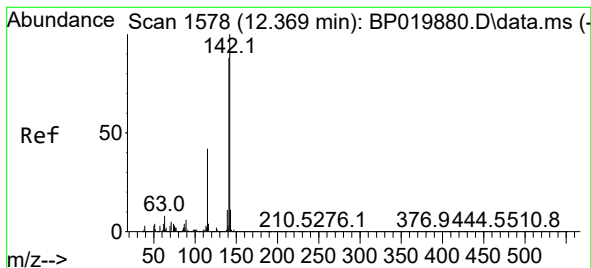
Tgt Ion:128 Resp: 282921
Ion Ratio Lower Upper
128 100
129 10.8 8.6 12.8
127 13.4 10.2 15.2



#33
4-Chloroaniline
Concen: 3.308 ng
RT: 10.752 min Scan# 1303
Delta R.T. -0.129 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

Tgt Ion:127 Resp: 37240
Ion Ratio Lower Upper
127 100
129 80.5 25.7 38.5#
65 2.6 28.2 42.4#
92 0.3 18.7 28.1#





#37

2-Methylnaphthalene

Concen: 4.532 ng

RT: 12.369 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

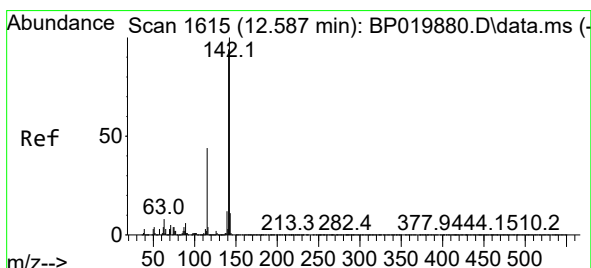
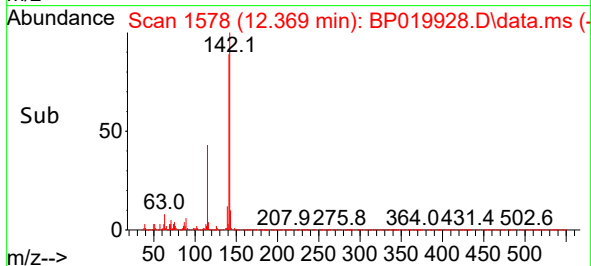
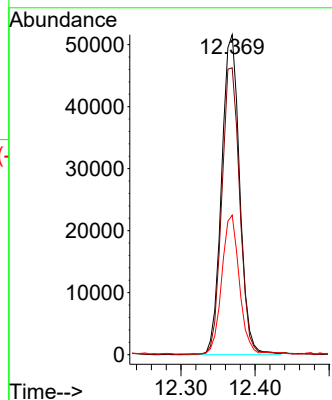
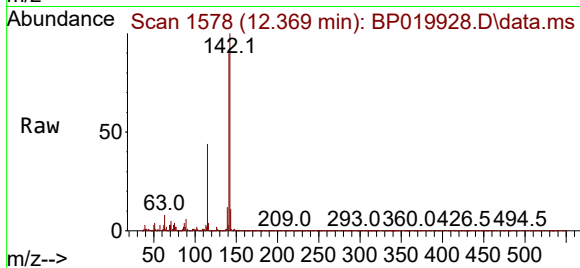
Tgt Ion:142 Resp: 87180

Ion Ratio Lower Upper

142 100

141 89.7 70.0 105.0

115 43.6 33.7 50.5



#38

1-Methylnaphthalene

Concen: 4.099 ng

RT: 12.587 min Scan# 1615

Delta R.T. 0.000 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

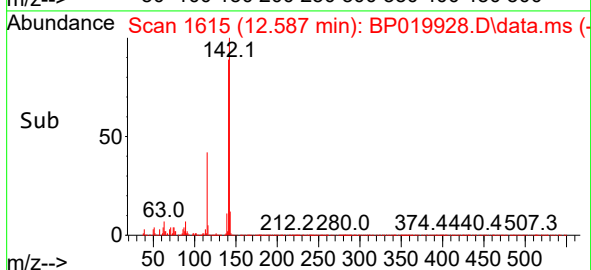
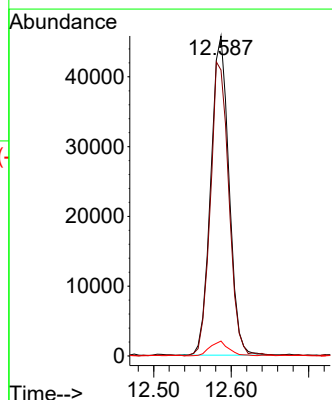
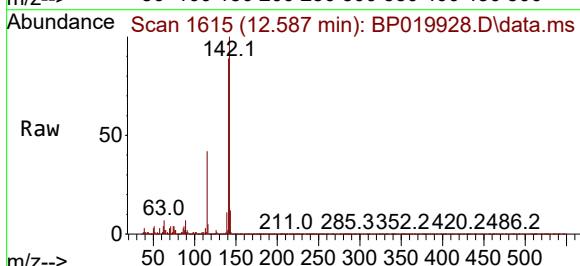
Tgt Ion:142 Resp: 74614

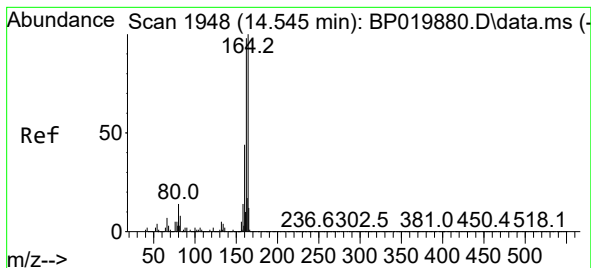
Ion Ratio Lower Upper

142 100

141 89.4 75.5 113.3

116 4.7 3.5 5.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.545 min Scan# 1948

Delta R.T. 0.000 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

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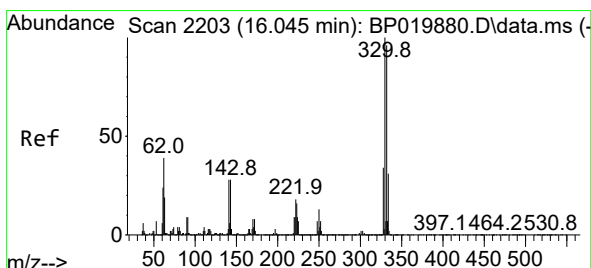
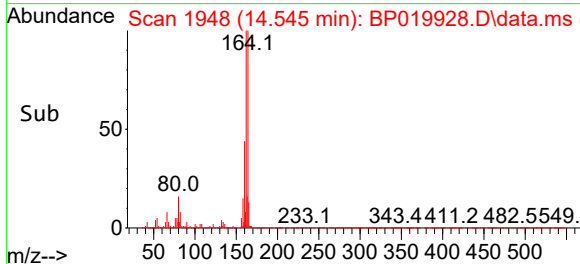
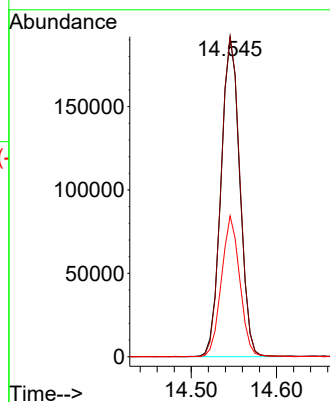
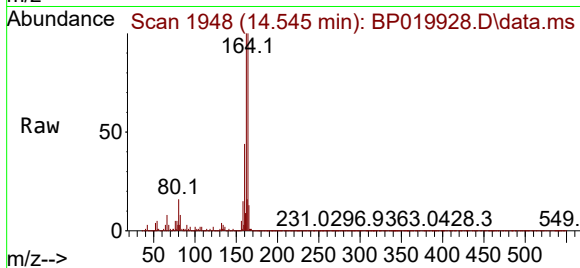
Tgt Ion:164 Resp: 292179

Ion Ratio Lower Upper

164 100

162 100.1 78.1 117.1

160 44.0 35.3 52.9



#42

2,4,6-Tribromophenol

Concen: 61.166 ng

RT: 16.051 min Scan# 2204

Delta R.T. 0.006 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

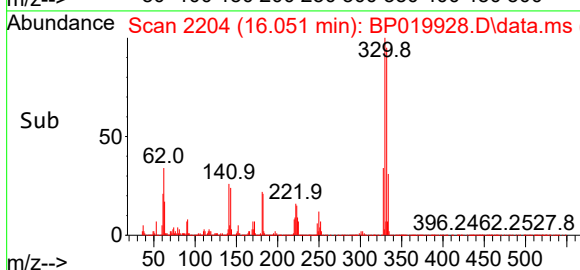
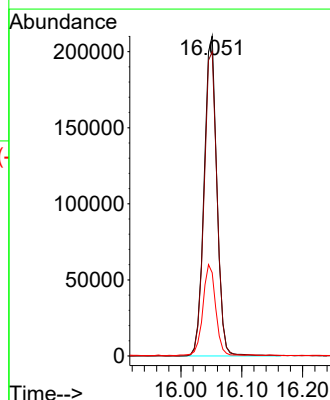
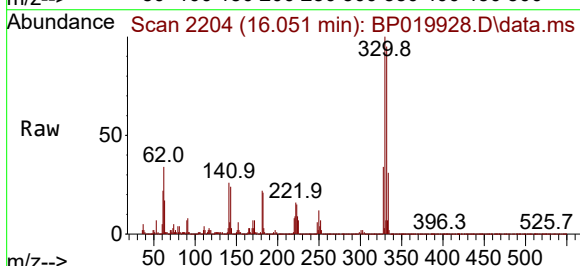
Tgt Ion:330 Resp: 306433

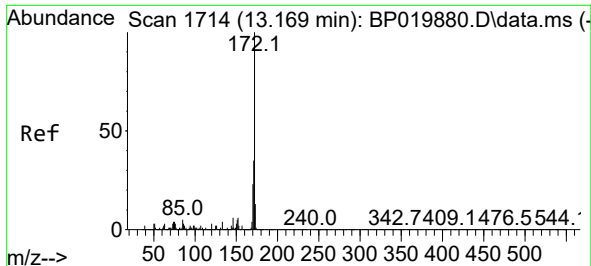
Ion Ratio Lower Upper

330 100

332 96.5 77.4 116.2

141 28.5 24.6 37.0

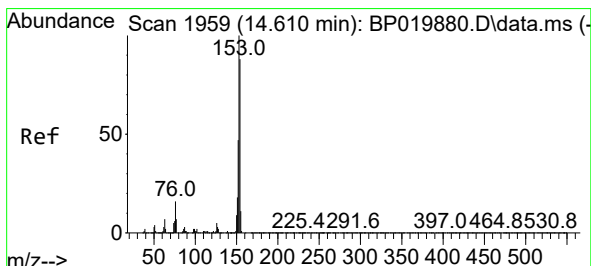
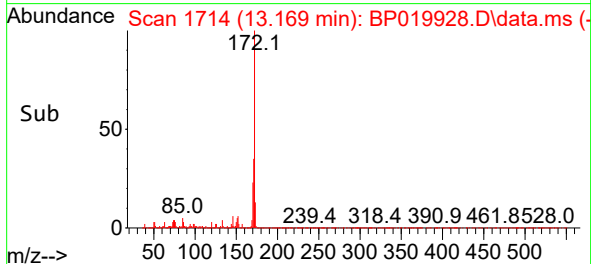
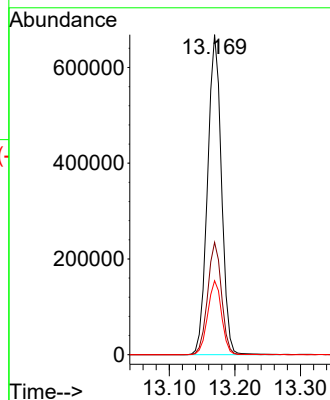
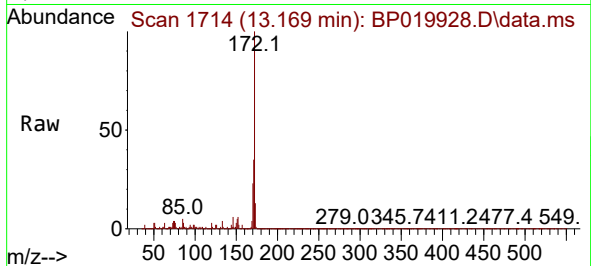




#45
2-Fluorobiphenyl
Concen: 45.636 ng
RT: 13.169 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

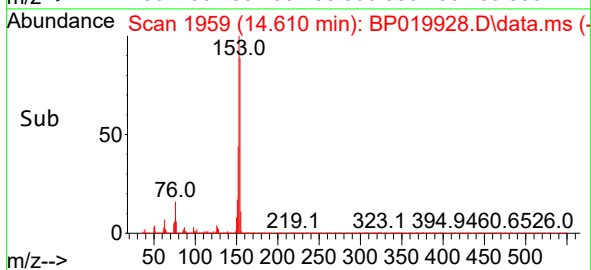
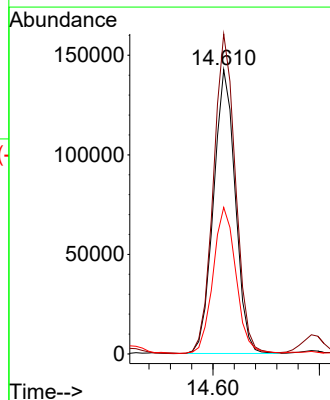
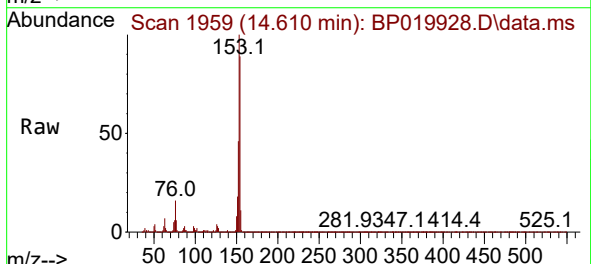
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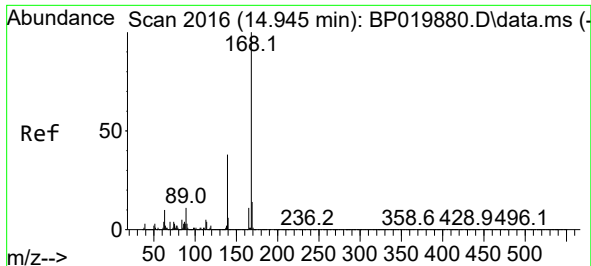
Tgt Ion:172 Resp: 986879
Ion Ratio Lower Upper
172 100
171 35.1 27.8 41.6
170 23.1 18.4 27.6



#52
Acenaphthene
Concen: 12.811 ng
RT: 14.610 min Scan# 1959
Delta R.T. 0.000 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

Tgt Ion:154 Resp: 202362
Ion Ratio Lower Upper
154 100
153 112.6 90.9 136.3
152 51.5 42.3 63.5

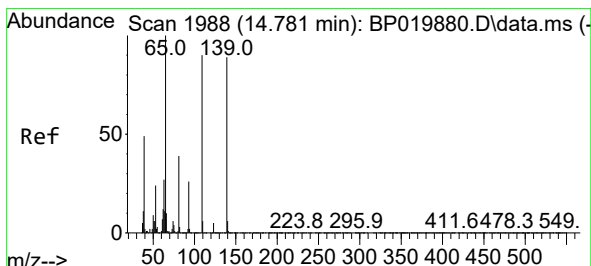
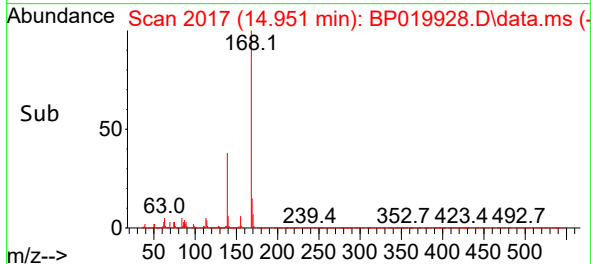
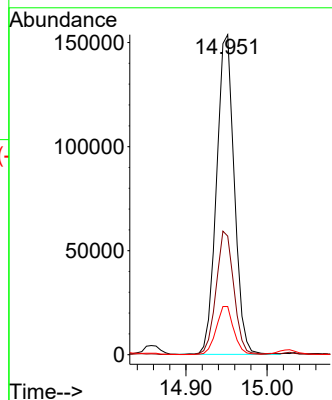
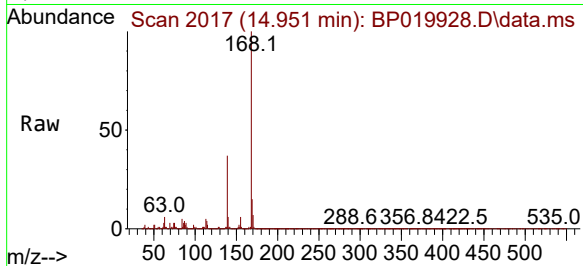




#55
Dibenzenofuran
Concen: 8.647 ng
RT: 14.951 min Scan# 2016
Delta R.T. 0.006 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

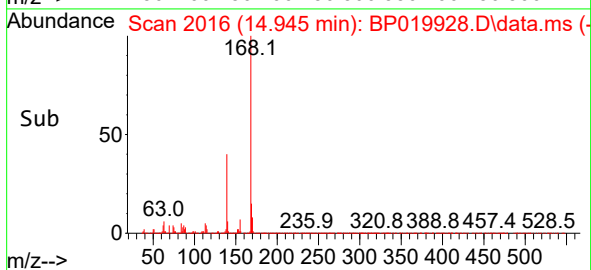
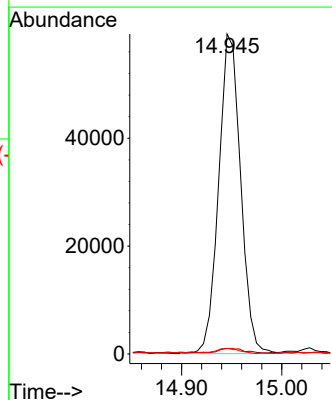
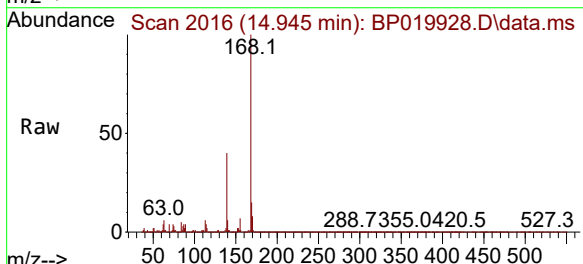
Instrument :
BNA_P
ClientSampleId :
WC-1

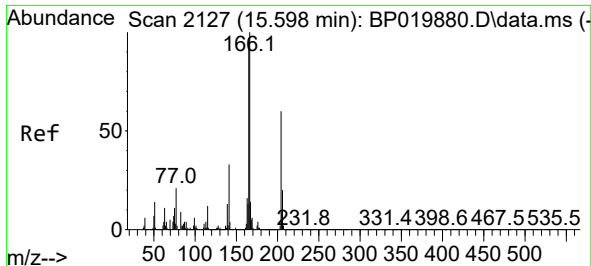
Tgt Ion:168 Resp: 233103
Ion Ratio Lower Upper
168 100
139 37.0 30.6 45.8
169 15.1 10.9 16.3



#56
4-Nitrophenol
Concen: 22.612 ng
RT: 14.945 min Scan# 2016
Delta R.T. 0.165 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

Tgt Ion:139 Resp: 89884
Ion Ratio Lower Upper
139 100
109 1.7 81.3 121.3#
65 1.7 93.5 133.5#

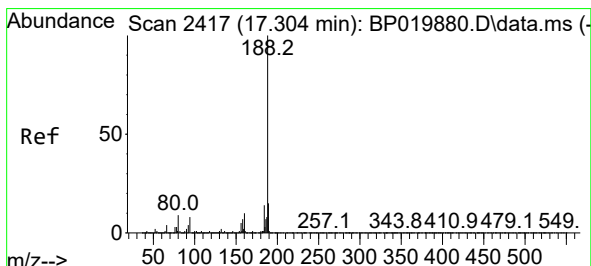
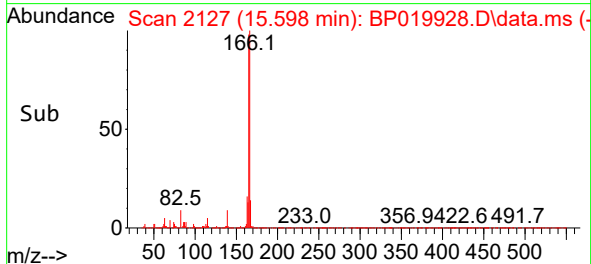
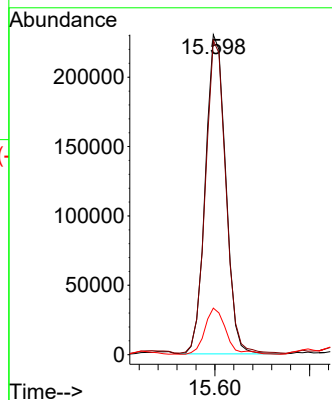
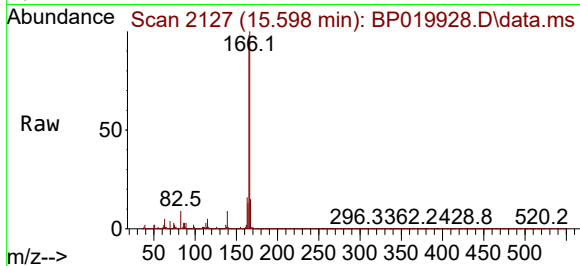




#58
Fluorene
Concen: 15.568 ng
RT: 15.598 min Scan# 2127
Delta R.T. 0.000 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

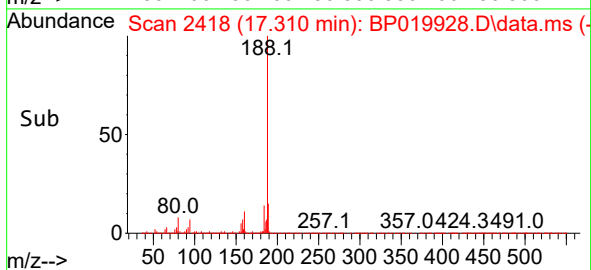
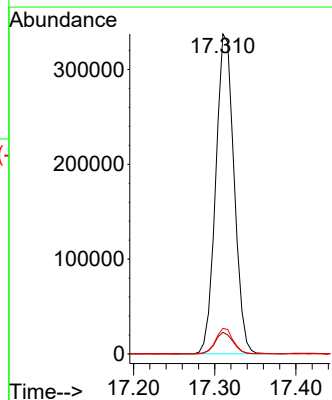
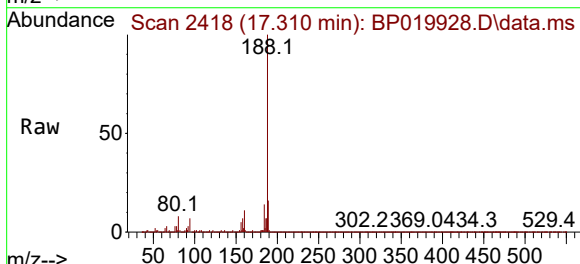
Instrument :
BNA_P
ClientSampleId :
WC-1

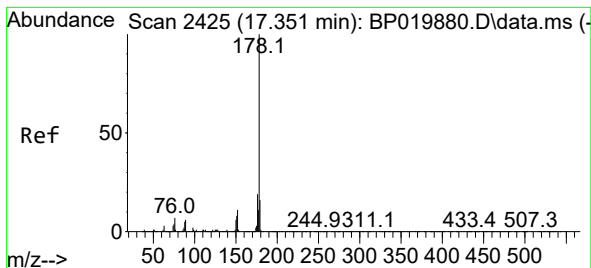
Tgt Ion:166 Resp: 340368
Ion Ratio Lower Upper
166 100
165 98.2 77.8 116.6
167 14.5 10.8 16.2



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.310 min Scan# 2418
Delta R.T. 0.006 min
Lab File: BP019928.D
Acq: 28 Feb 2024 21:43

Tgt Ion:188 Resp: 529618
Ion Ratio Lower Upper
188 100
94 6.8 6.2 9.4
80 8.0 7.0 10.4





#71

Phenanthrene

Concen: 106.755 ng

RT: 17.363 min Scan# 2425

Delta R.T. 0.012 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

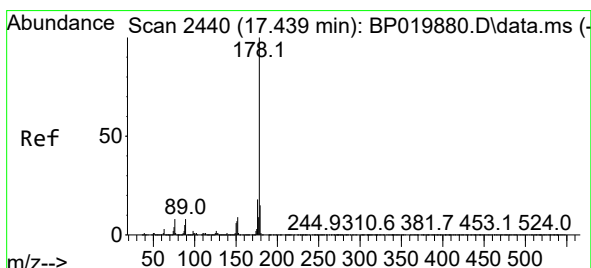
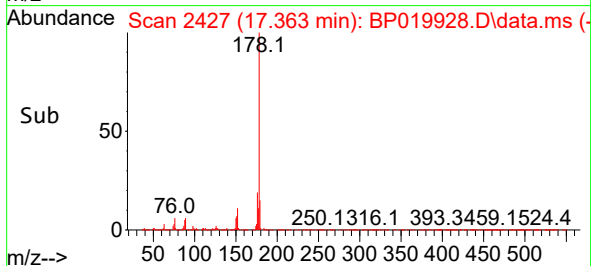
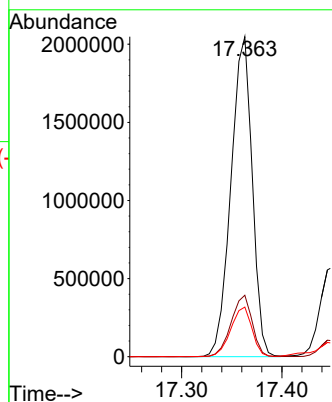
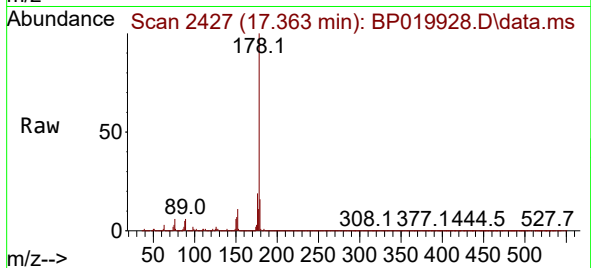
Tgt Ion:178 Resp: 3017890

Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 15.5 12.5 18.7



#72

Anthracene

Concen: 28.705 ng

RT: 17.451 min Scan# 2442

Delta R.T. 0.012 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

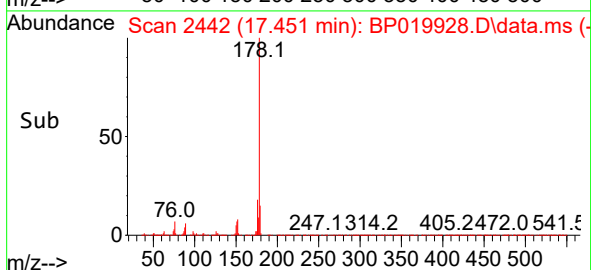
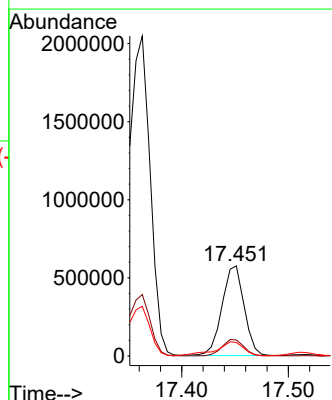
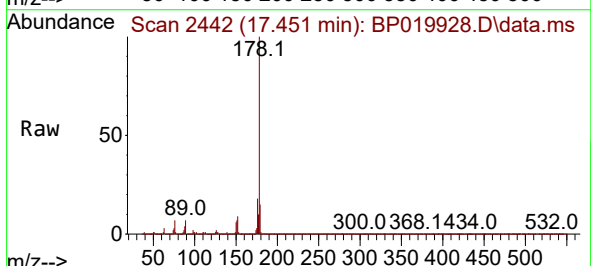
Tgt Ion:178 Resp: 828362

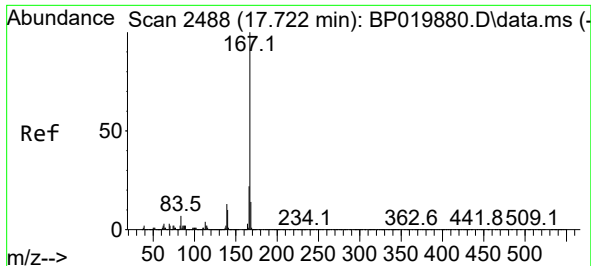
Ion Ratio Lower Upper

178 100

176 17.8 14.7 22.1

179 14.9 12.2 18.4

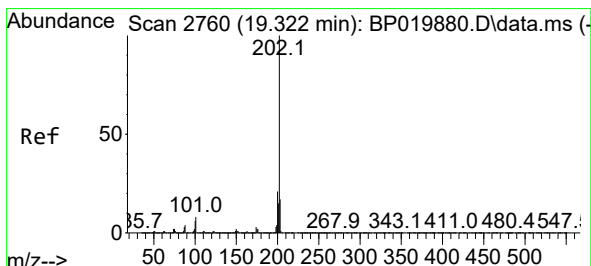
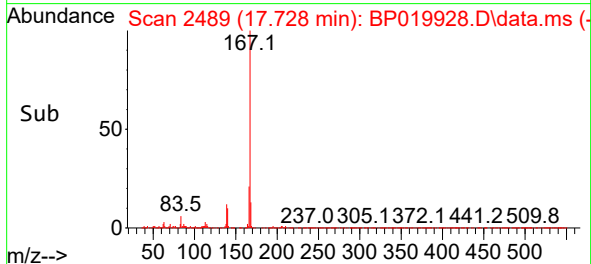
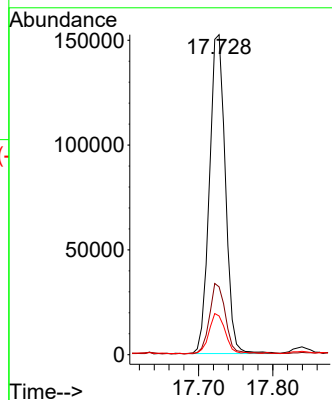
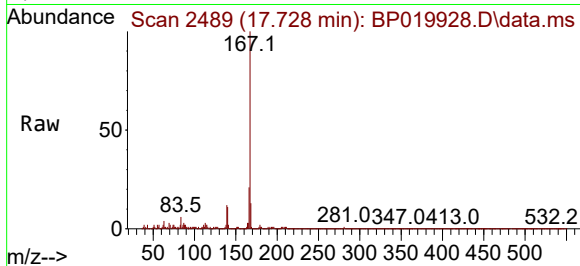




#73
 Carbazole
 Concen: 8.891 ng
 RT: 17.728 min Scan# 2488
 Delta R.T. 0.006 min
 Lab File: BP019928.D
 Acq: 28 Feb 2024 21:43

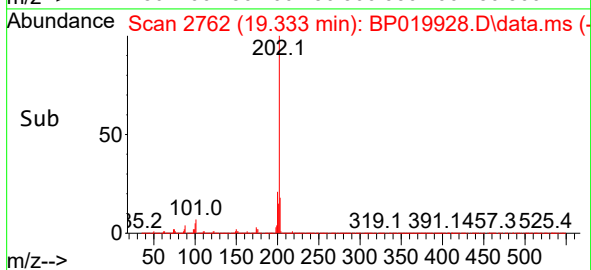
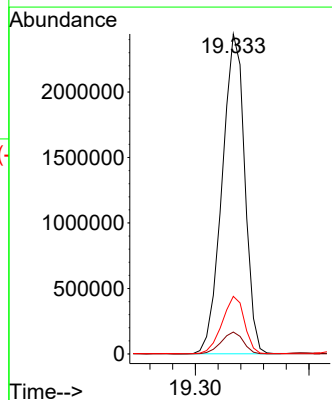
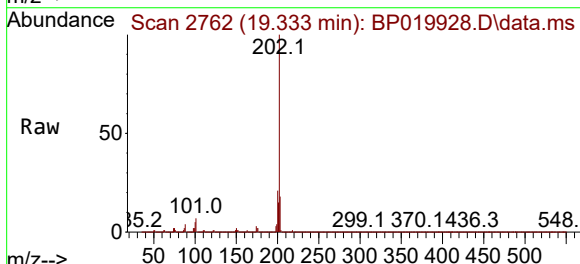
Instrument :
 BNA_P
 ClientSampleId :
 WC-1

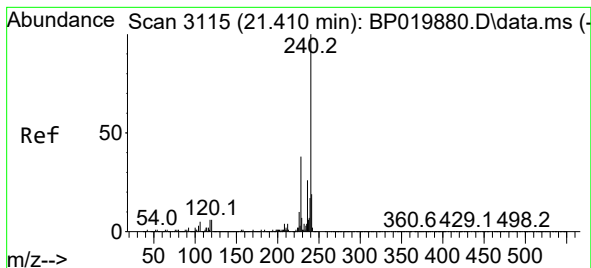
Tgt Ion:167 Resp: 227235
 Ion Ratio Lower Upper
 167 100
 166 21.2 17.3 25.9
 139 12.1 10.5 15.7



#75
 Fluoranthene
 Concen: 92.108 ng
 RT: 19.333 min Scan# 2762
 Delta R.T. 0.012 min
 Lab File: BP019928.D
 Acq: 28 Feb 2024 21:43

Tgt Ion:202 Resp: 3379225
 Ion Ratio Lower Upper
 202 100
 101 6.8 0.0 27.7
 203 18.0 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.422 min Scan# 3115

Delta R.T. 0.012 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

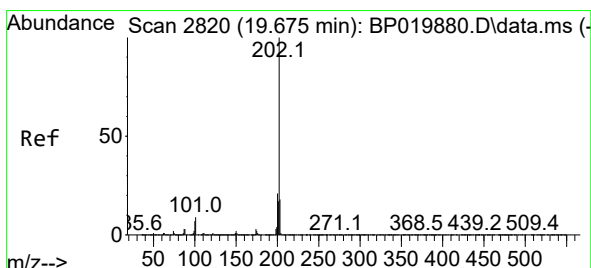
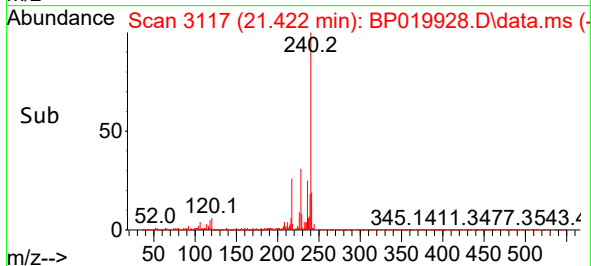
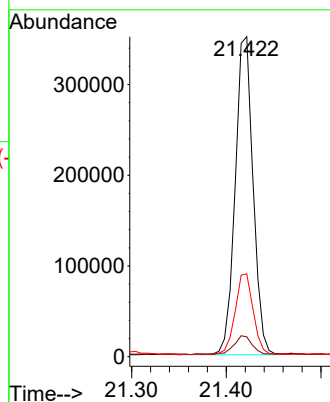
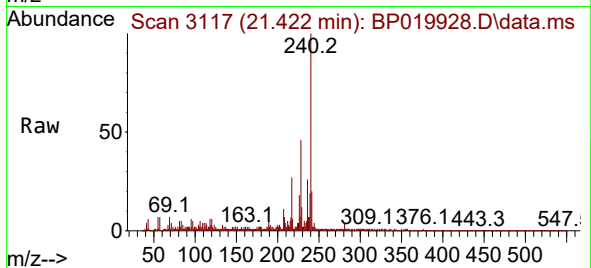
Tgt Ion:240 Resp: 460163

Ion Ratio Lower Upper

240 100

120 6.2 5.1 7.7

236 25.9 20.5 30.7



#78

Pyrene

Concen: 81.207 ng

RT: 19.686 min Scan# 2822

Delta R.T. 0.012 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

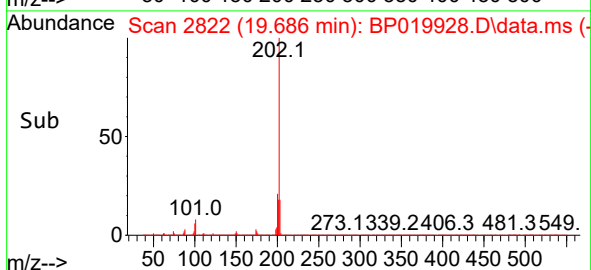
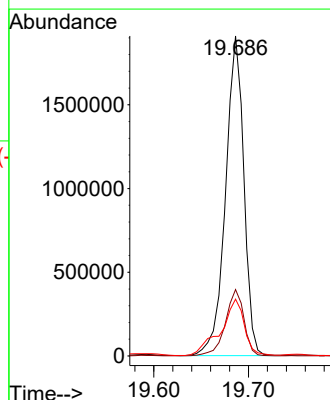
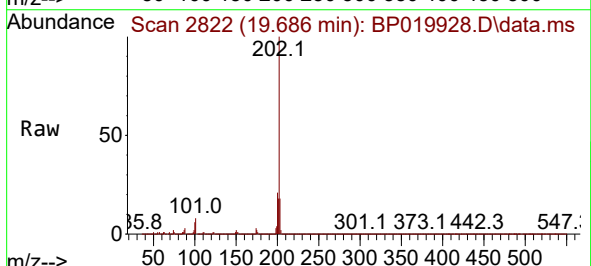
Tgt Ion:202 Resp: 2567436

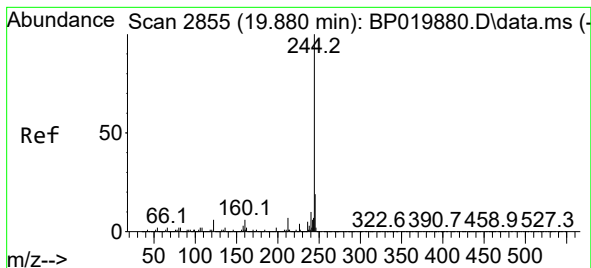
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.8 14.2 21.2





#79

Terphenyl-d14

Concen: 39.220 ng

RT: 19.880 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

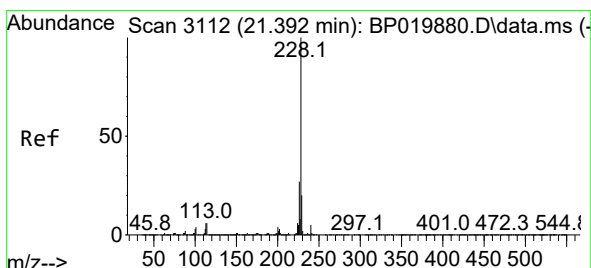
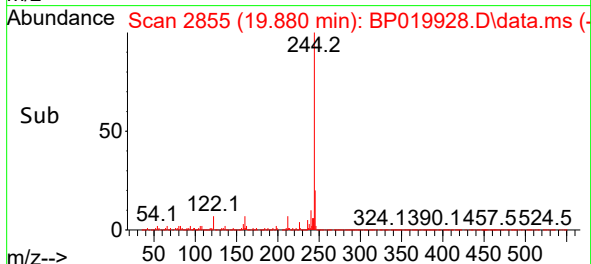
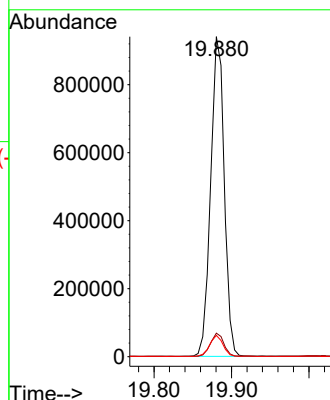
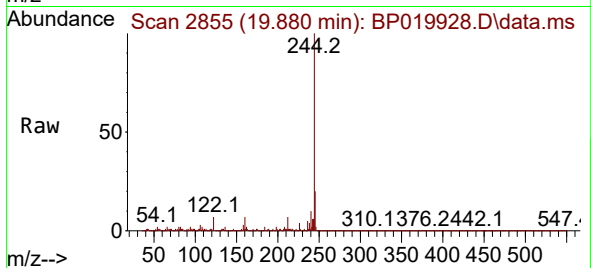
Tgt Ion:244 Resp: 1145037

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

122 6.6 5.0 7.6



#81

Benzo(a)anthracene

Concen: 45.256 ng

RT: 21.404 min Scan# 3114

Delta R.T. 0.012 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

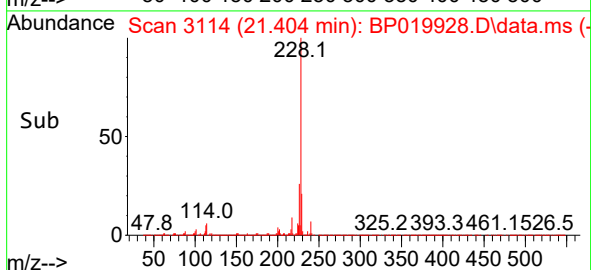
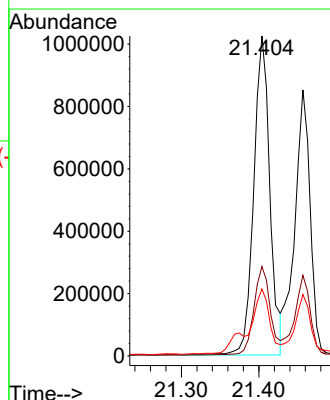
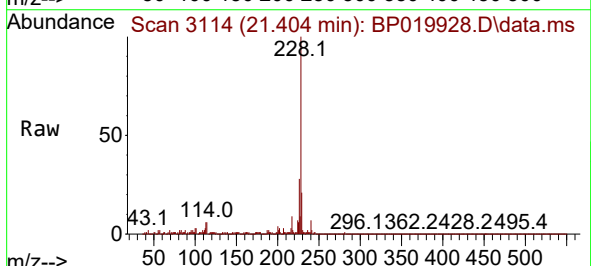
Tgt Ion:228 Resp: 1478258

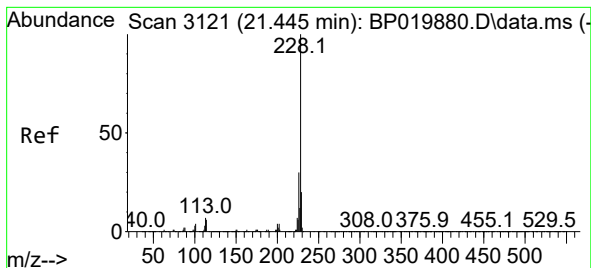
Ion Ratio Lower Upper

228 100

226 27.9 21.5 32.3

229 20.9 15.6 23.4





#83

Chrysene

Concen: 38.427 ng

RT: 21.457 min Scan# 3121

Delta R.T. 0.012 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

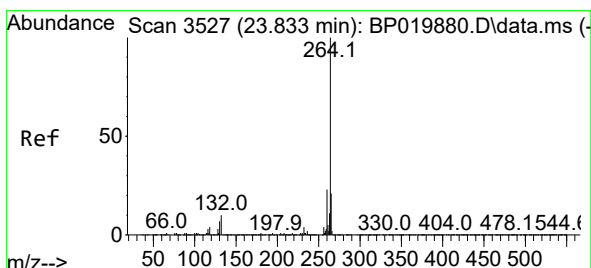
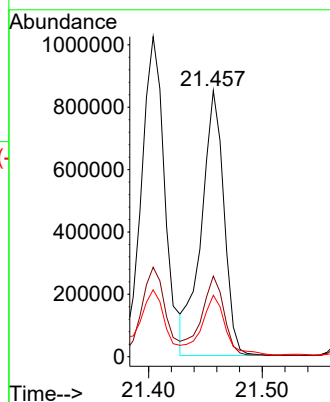
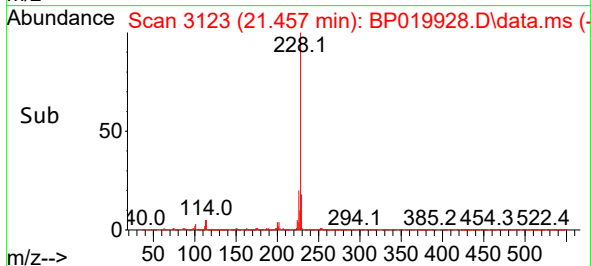
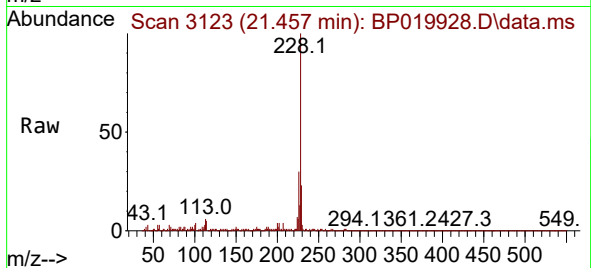
Tgt Ion:228 Resp: 1176157

Ion Ratio Lower Upper

228 100

226 30.3 23.9 35.9

229 23.1 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.857 min Scan# 3531

Delta R.T. 0.024 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

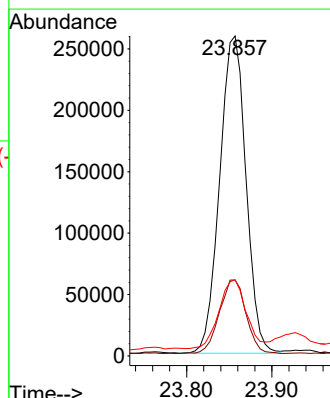
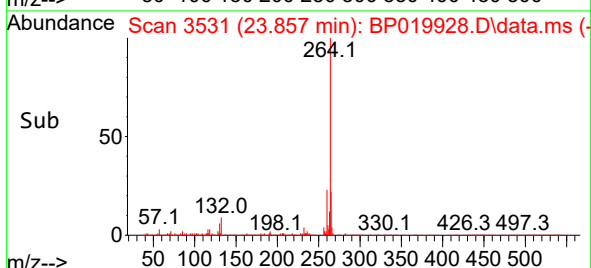
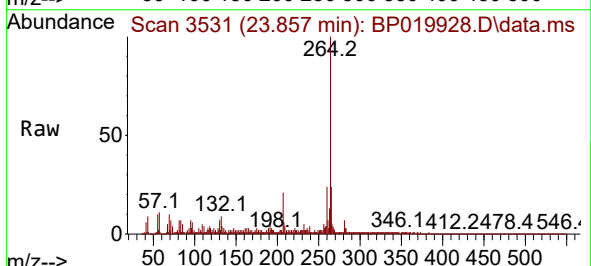
Tgt Ion:264 Resp: 555323

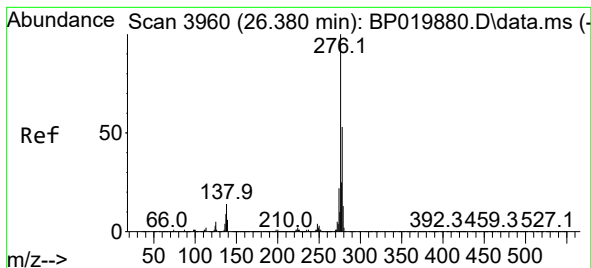
Ion Ratio Lower Upper

264 100

260 23.7 18.7 28.1

265 23.8 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 18.636 ng

RT: 26.415 min Scan# 3966

Delta R.T. 0.035 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

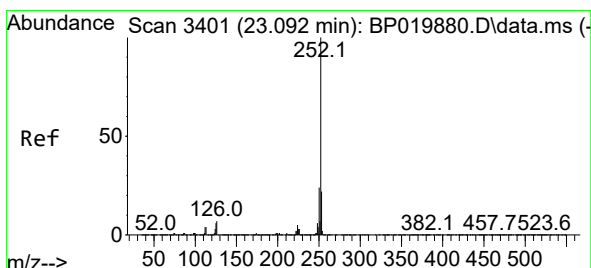
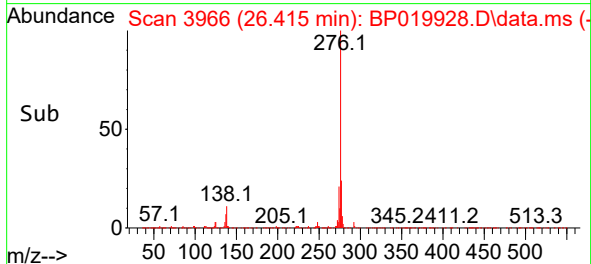
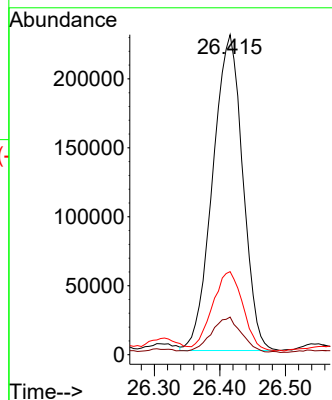
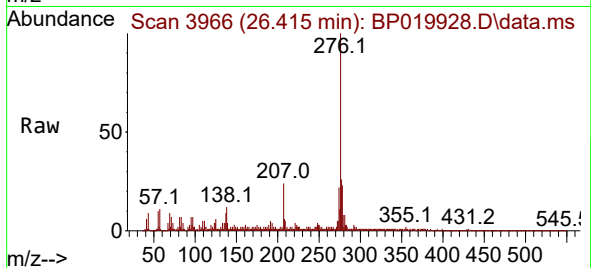
Tgt Ion:276 Resp: 728560

Ion Ratio Lower Upper

276 100

138 10.8 11.7 17.5#

277 25.4 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 44.689 ng

RT: 23.121 min Scan# 3406

Delta R.T. 0.029 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

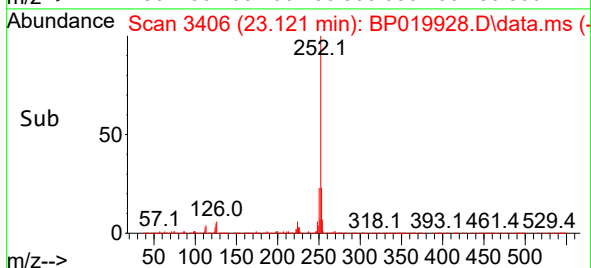
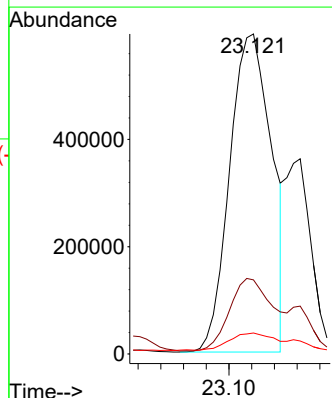
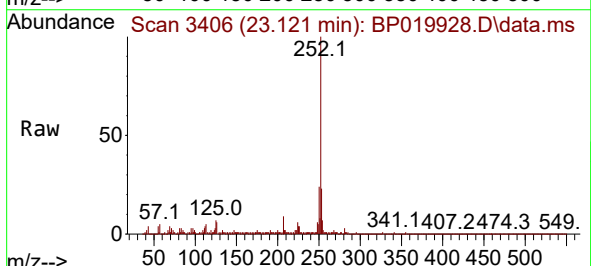
Tgt Ion:252 Resp: 1521506

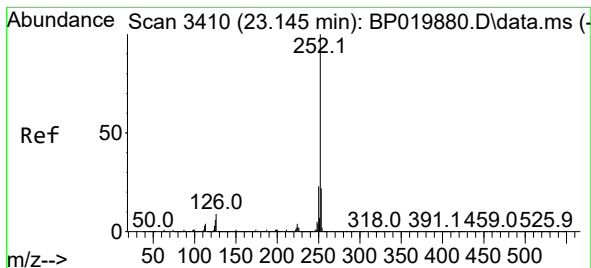
Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

125 6.5 4.6 7.0





#89

Benzo(k)fluoranthene

Concen: 45.568 ng

RT: 23.121 min Scan# 3410

Delta R.T. -0.023 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

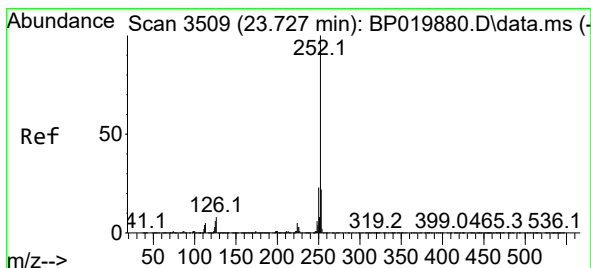
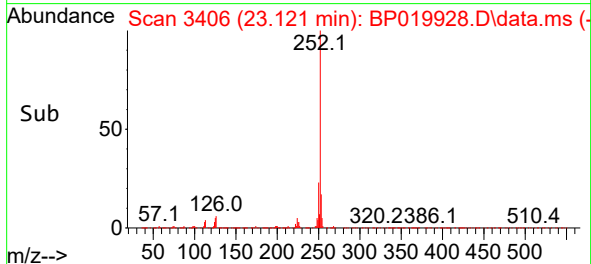
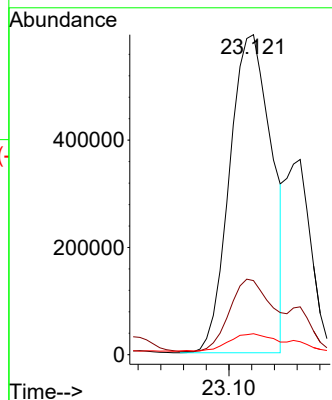
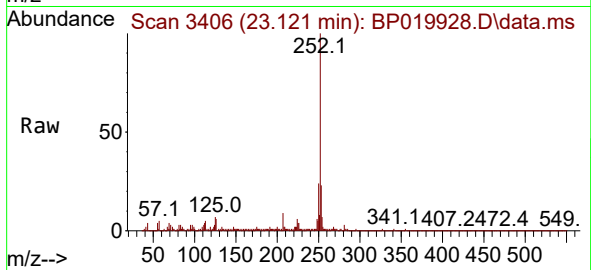
Tgt Ion:252 Resp: 1521506

Ion Ratio Lower Upper

252 100

253 23.1 17.3 25.9

125 6.5 4.6 6.8



#90

Benzo(a)pyrene

Concen: 34.294 ng

RT: 23.751 min Scan# 3513

Delta R.T. 0.024 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

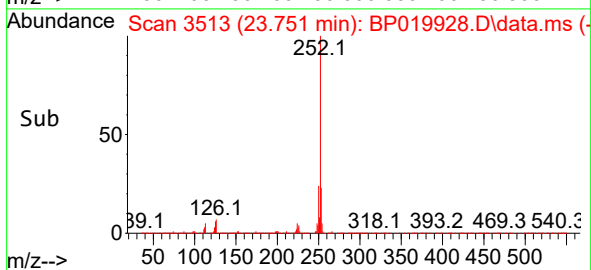
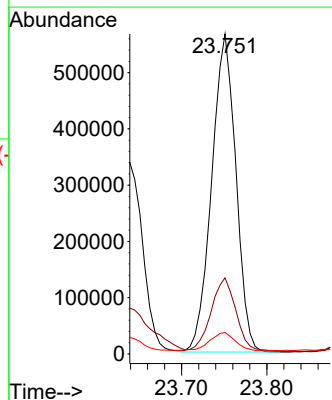
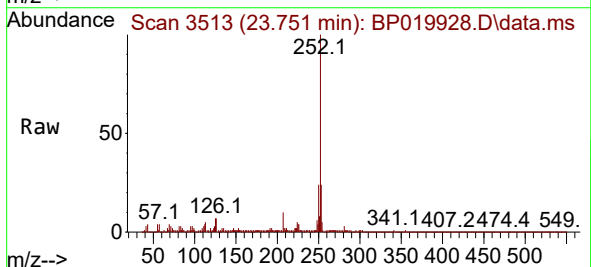
Tgt Ion:252 Resp: 1115825

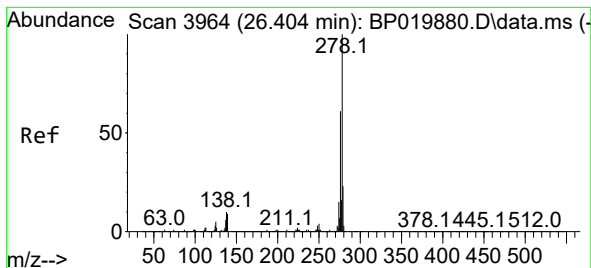
Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

125 6.7 5.2 7.8





#91

Dibenzo(a,h)anthracene

Concen: 6.046 ng

RT: 26.421 min Scan# 3964

Delta R.T. 0.018 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Instrument :

BNA_P

ClientSampleId :

WC-1

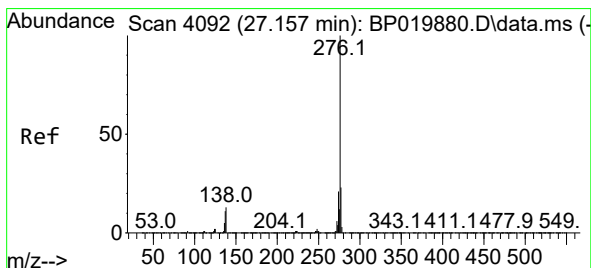
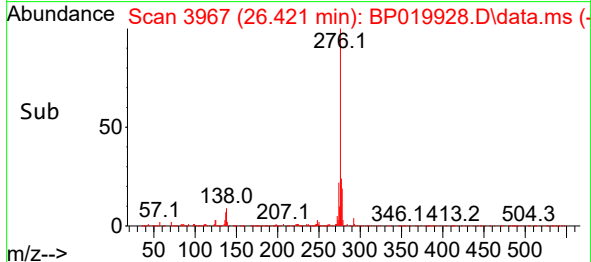
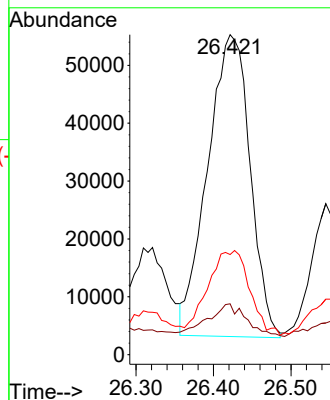
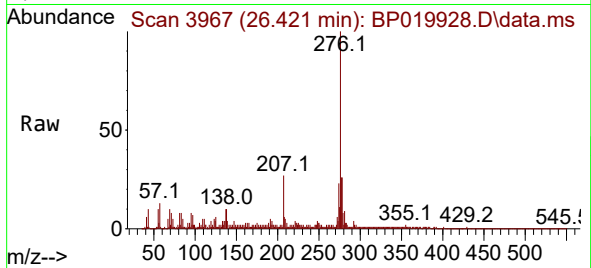
Tgt Ion:278 Resp: 198706

Ion Ratio Lower Upper

278 100

139 15.9 7.4 11.0#

279 31.3 18.7 28.1#



#92

Benzo(g,h,i)perylene

Concen: 20.632 ng

RT: 27.204 min Scan# 4100

Delta R.T. 0.047 min

Lab File: BP019928.D

Acq: 28 Feb 2024 21:43

Tgt Ion:276 Resp: 654589

Ion Ratio Lower Upper

276 100

277 26.5 18.5 27.7

138 12.5 10.2 15.2

