

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121824\
 Data File : BF140916.D
 Acq On : 18 Dec 2024 19:49
 Operator : RC/JU
 Sample : P5268-01DL 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-12122024DL

Quant Time: Dec 19 00:17:42 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 16 16:59:50 2024
 Response via : Initial Calibration

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

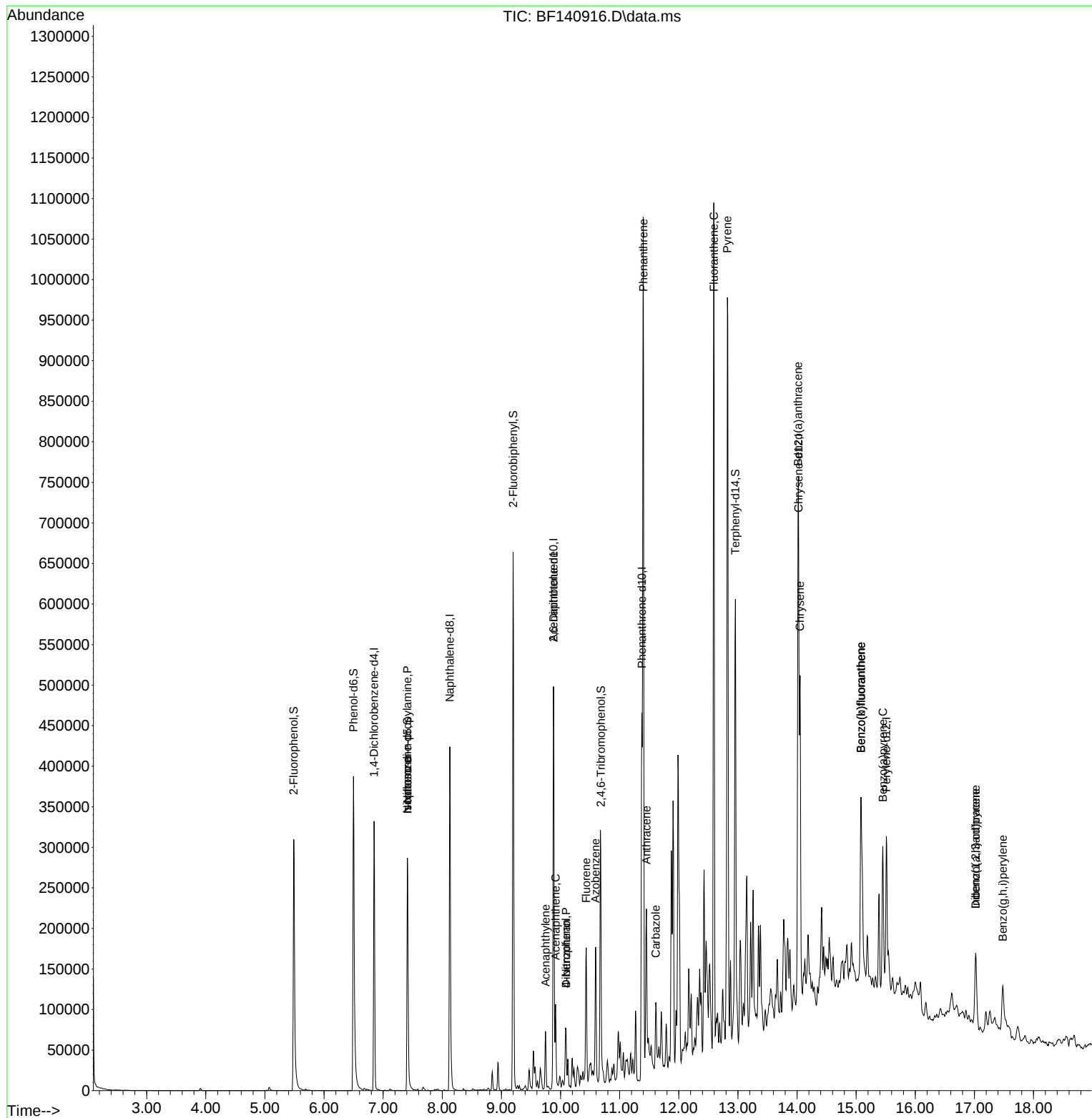
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	72840	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	275124	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	148493	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	231068	20.000	ng	0.00
76) Chrysene-d12	14.027	240	164353	20.000	ng	0.00
86) Perylene-d12	15.510	264	118773	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	152211	34.400	ng	0.00
7) Phenol-d6	6.498	99	231567	39.512	ng	0.00
23) Nitrobenzene-d5	7.410	82	143312	26.061	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	51443	29.291	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	297884	27.580	ng	0.00
79) Terphenyl-d14	12.957	244	249731	23.960	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.410	70	19206	5.463	ng	# 79
25) Isophorone	7.410	82	141282	15.333	ng	# 65
49) Acenaphthylene	9.745	152	38339	2.888	ng	98
51) 2,6-Dinitrotoluene	9.881	165	20921	8.741	ng	# 22
52) Acenaphthene	9.916	154	31670	3.735	ng	100
55) Dibenzofuran	10.092	168	32540	2.476	ng	# 98
56) 4-Nitrophenol	10.092	139	13607	14.501	ng	# 8
58) Fluorene	10.434	166	71653	6.610	ng	98
63) Azobenzene	10.592	77	36558	3.582	ng	# 1
71) Phenanthrene	11.398	178	552102	46.463	ng	99
72) Anthracene	11.451	178	116001	9.913	ng	98
73) Carbazole	11.610	167	36977	3.226	ng	98
75) Fluoranthene	12.592	202	580055	42.387	ng	99
78) Pyrene	12.822	202	554700	37.954	ng	99
81) Benzo(a)anthracene	14.016	228	248028	21.293	ng	96
83) Chrysene	14.051	228	202969	19.162	ng	98
87) Indeno(1,2,3-cd)pyrene	17.021	276	54867	7.403	ng	97
88) Benzo(b)fluoranthene	15.080	252	203977	24.741	ng	# 97
89) Benzo(k)fluoranthene	15.080	252	203977	28.842	ng	# 97
90) Benzo(a)pyrene	15.451	252	108503	16.807	ng	98
91) Dibenzo(a,h)anthracene	17.021	278	16463	2.681	ng	# 89
92) Benzo(g,h,i)perylene	17.480	276	53697	8.592	ng	96

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

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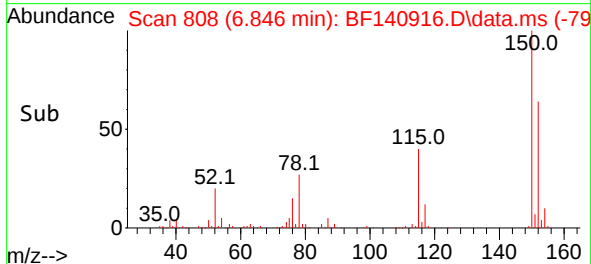
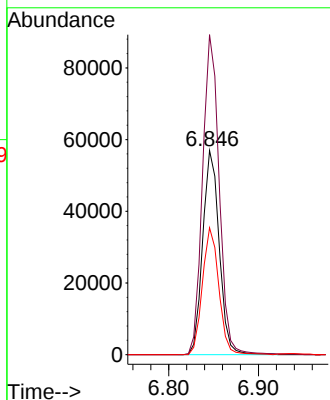
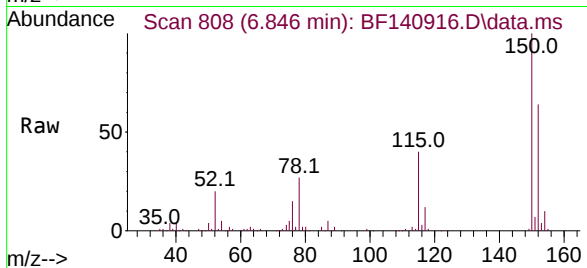




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.846 min Scan# 809
 Delta R.T. -0.005 min
 Lab File: BF140916.D
 Acq: 18 Dec 2024 19:49

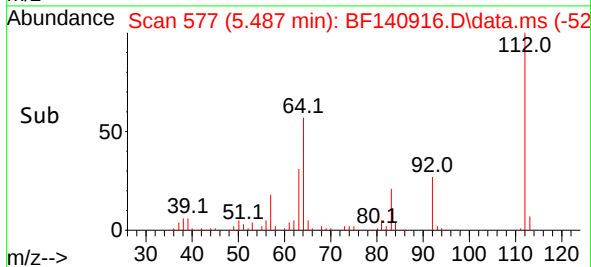
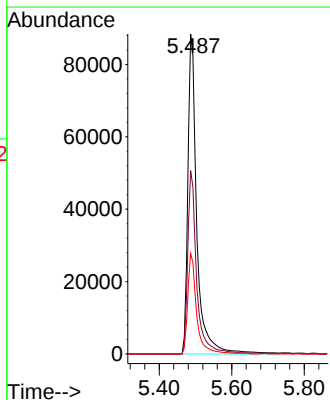
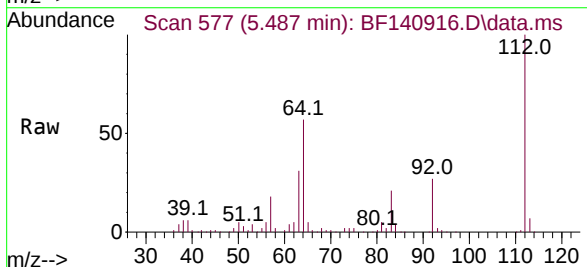
Instrument :
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 OR-02-12122024DL

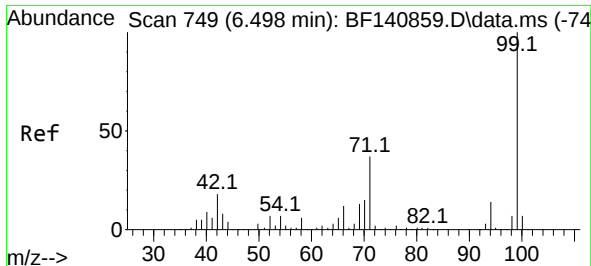
Tgt Ion:152 Resp: 72840
 Ion Ratio Lower Upper
 152 100
 150 156.7 127.9 191.9
 115 62.1 48.0 72.0



#5
 2-Fluorophenol
 Concen: 34.400 ng
 RT: 5.487 min Scan# 577
 Delta R.T. 0.000 min
 Lab File: BF140916.D
 Acq: 18 Dec 2024 19:49

Tgt Ion:112 Resp: 152211
 Ion Ratio Lower Upper
 112 100
 64 57.3 46.1 69.1
 63 31.4 24.9 37.3

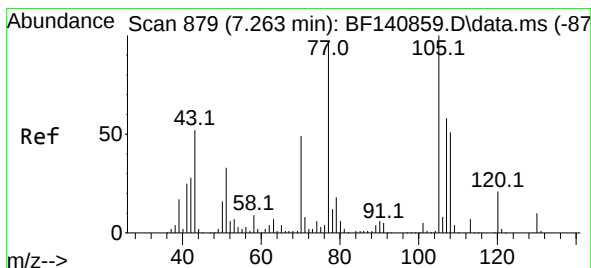
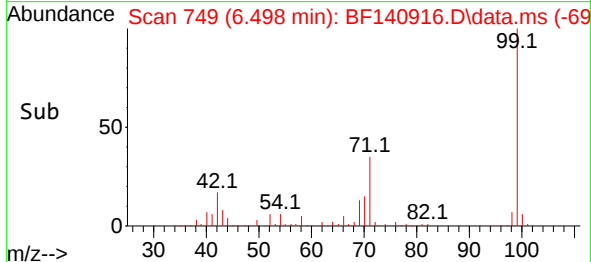
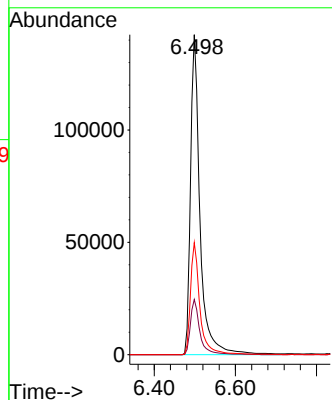
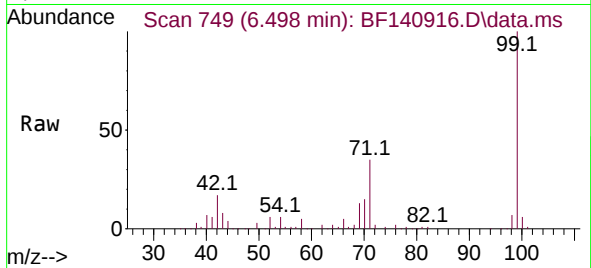




#7
Phenol-d6
Concen: 39.512 ng
RT: 6.498 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

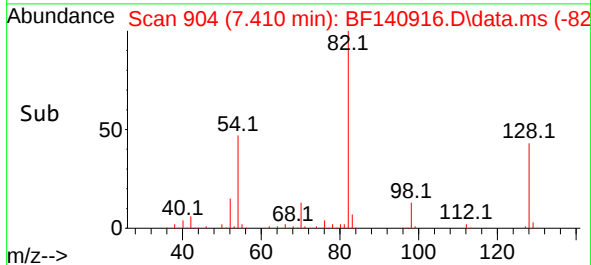
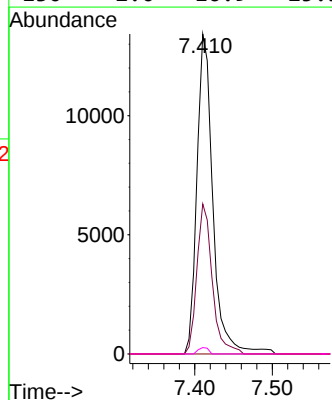
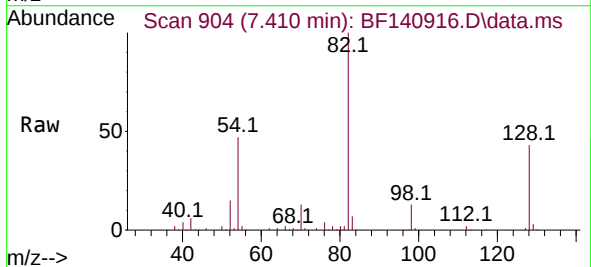
Instrument :
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ClientSampleId :
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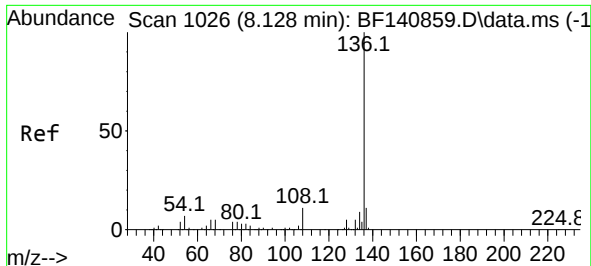
Tgt Ion: 99 Resp: 231567
Ion Ratio Lower Upper
99 100
42 17.3 14.3 21.5
71 35.0 29.9 44.9



#19
n-Nitroso-di-n-propylamine
Concen: 5.463 ng
RT: 7.410 min Scan# 904
Delta R.T. 0.147 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion: 70 Resp: 19206
Ion Ratio Lower Upper
70 100
42 46.9 45.3 67.9
101 0.0 8.0 12.0#
130 2.0 16.9 25.3#

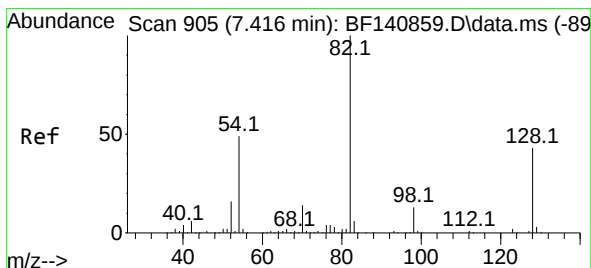
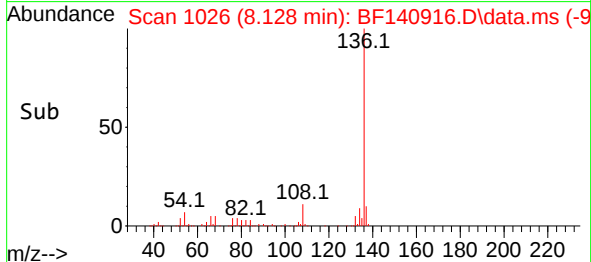
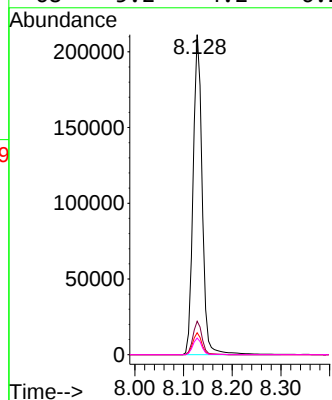
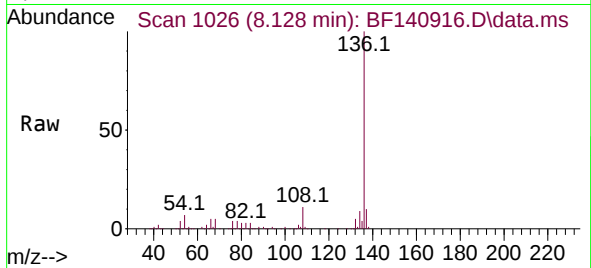




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

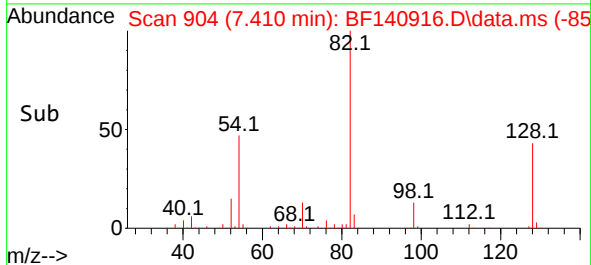
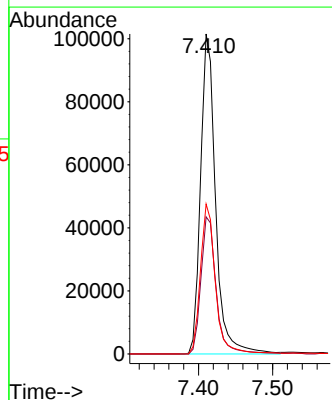
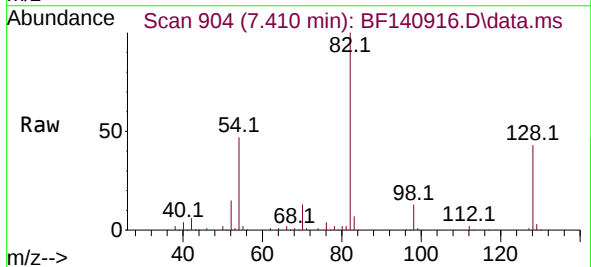
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

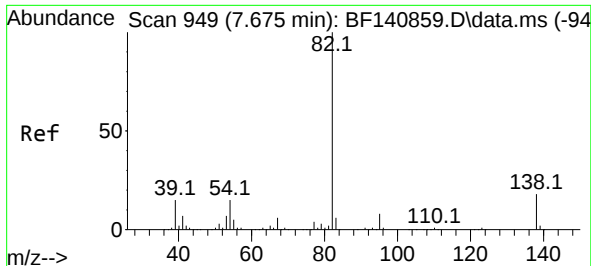
Tgt Ion:	136	Resp:	275124
Ion Ratio	Lower	Upper	
136	100		
137	10.5	9.0	13.4
54	6.8	5.6	8.4
68	5.2	4.2	6.2



#23
Nitrobenzene-d5
Concen: 26.061 ng
RT: 7.410 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:	82	Resp:	143312
Ion Ratio	Lower	Upper	
82	100		
128	42.8	34.4	51.6
54	46.9	38.8	58.2

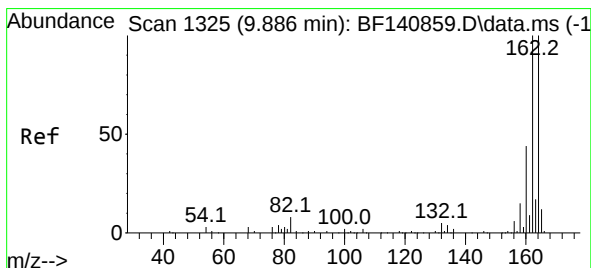
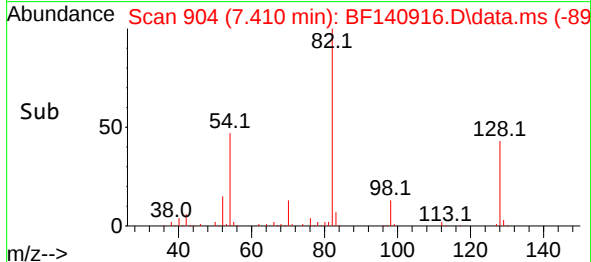
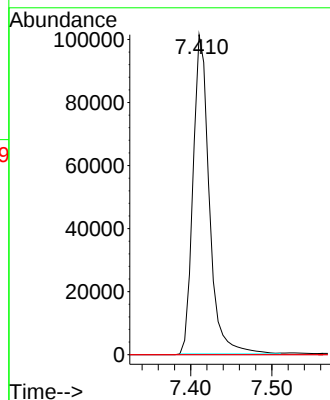
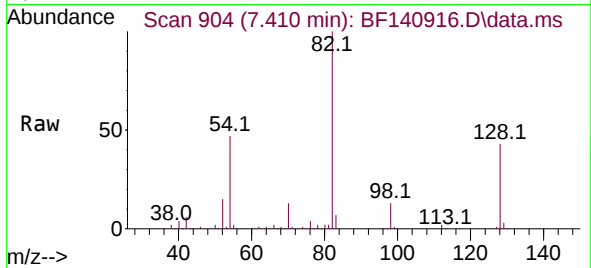




#25
Isophorone
Concen: 15.333 ng
RT: 7.410 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

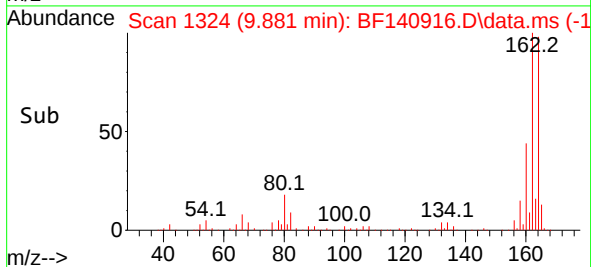
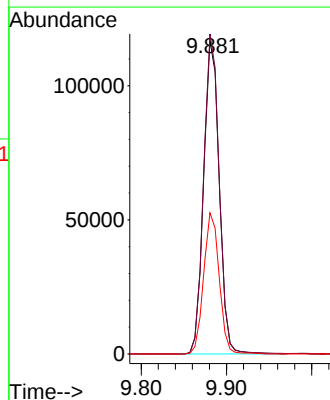
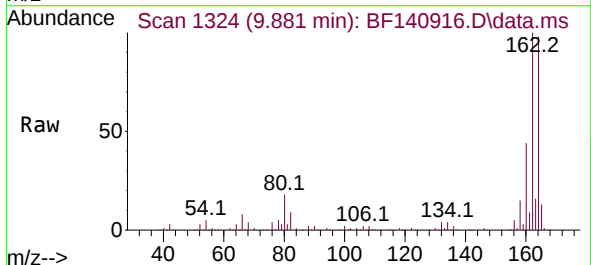
Instrument :
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ClientSampleId :
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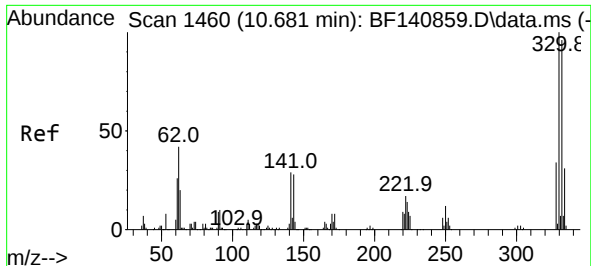
Tgt Ion: 82 Resp: 141282
Ion Ratio Lower Upper
82 100
95 0.0 6.3 9.5#
138 0.0 14.1 21.1#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:164 Resp: 148493
Ion Ratio Lower Upper
164 100
162 102.1 79.9 119.9
160 45.0 35.2 52.8





#42

2,4,6-Tribromophenol

Concen: 29.291 ng

RT: 10.681 min Scan# 1460

Delta R.T. 0.000 min

Lab File: BF140916.D

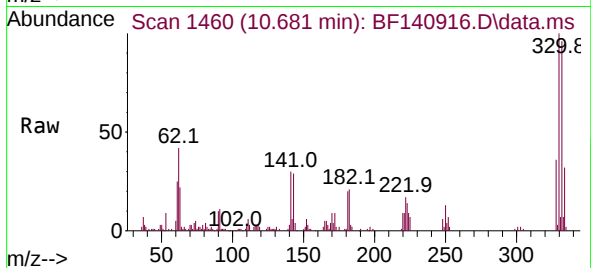
Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL



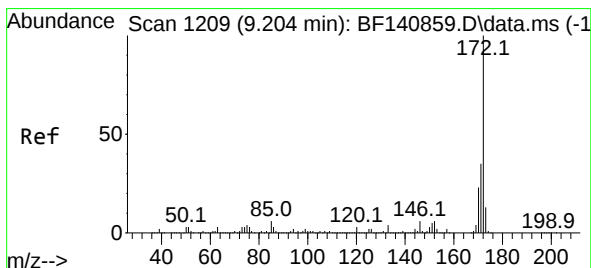
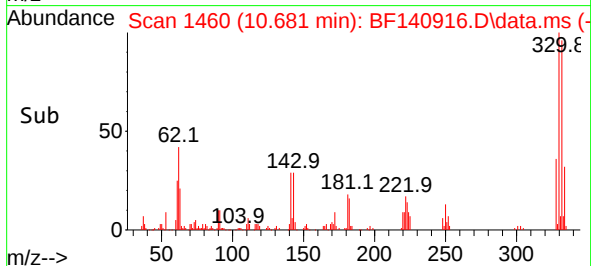
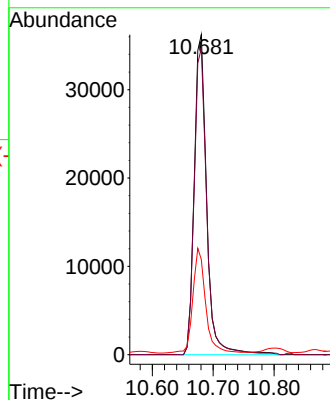
Tgt Ion:330 Resp: 51443

Ion Ratio Lower Upper

330 100

332 96.2 76.2 114.4

141 33.4 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 27.580 ng

RT: 9.198 min Scan# 1208

Delta R.T. -0.006 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

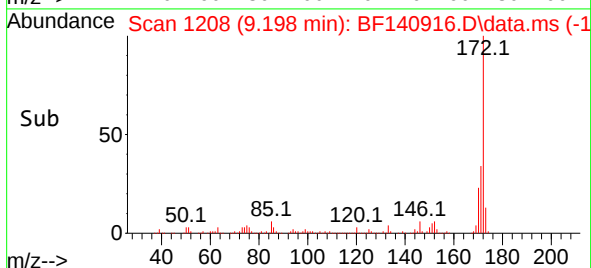
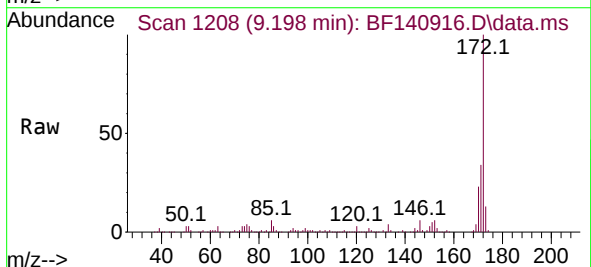
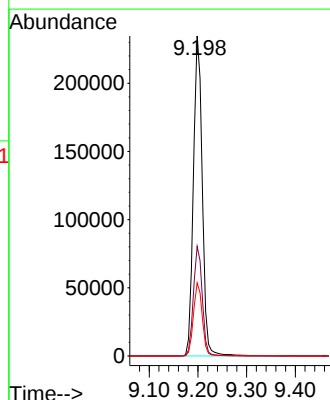
Tgt Ion:172 Resp: 297884

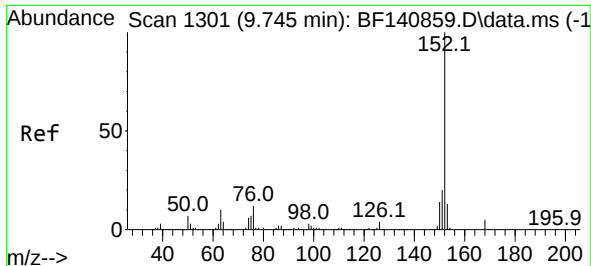
Ion Ratio Lower Upper

172 100

171 34.3 28.4 42.6

170 22.9 18.6 28.0





#49

Acenaphthylene

Concen: 2.888 ng

RT: 9.745 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

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ClientSampleId :

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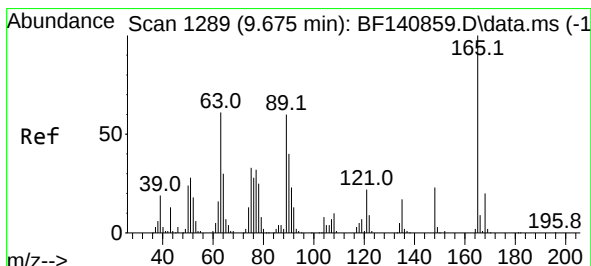
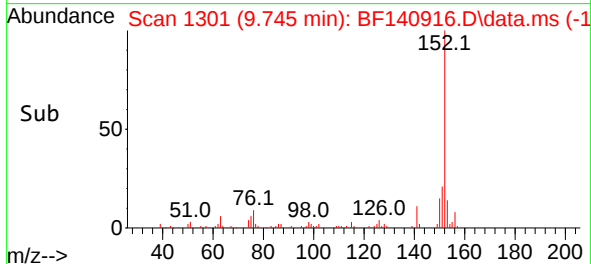
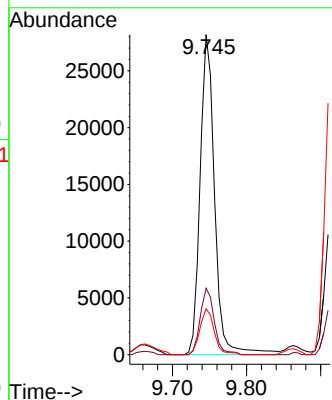
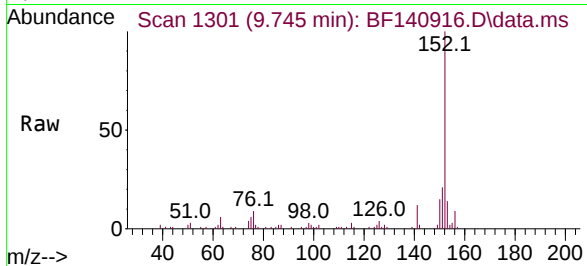
Tgt Ion:152 Resp: 38339

Ion Ratio Lower Upper

152 100

151 20.8 16.0 24.0

153 14.4 10.6 16.0



#51

2,6-Dinitrotoluene

Concen: 8.741 ng

RT: 9.881 min Scan# 1324

Delta R.T. 0.206 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

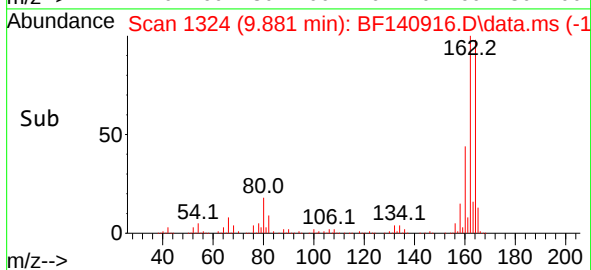
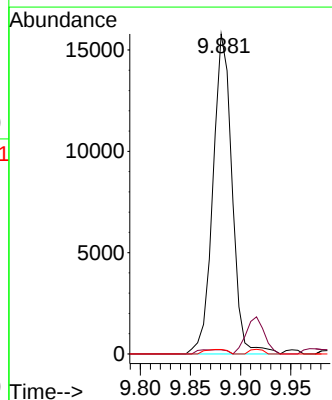
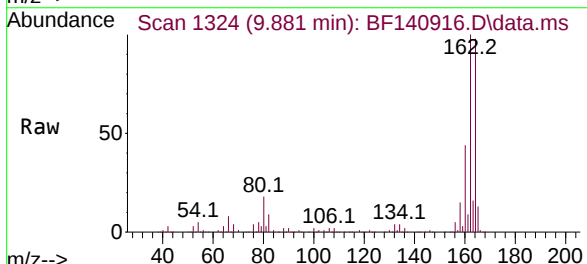
Tgt Ion:165 Resp: 20921

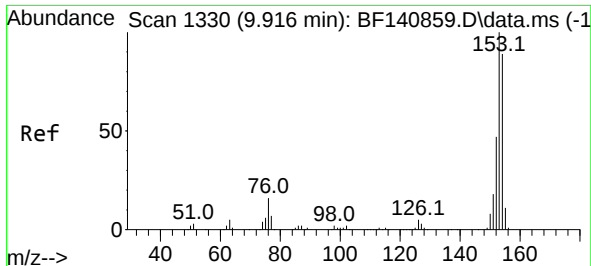
Ion Ratio Lower Upper

165 100

63 1.3 49.7 74.5#

89 1.4 48.2 72.4#

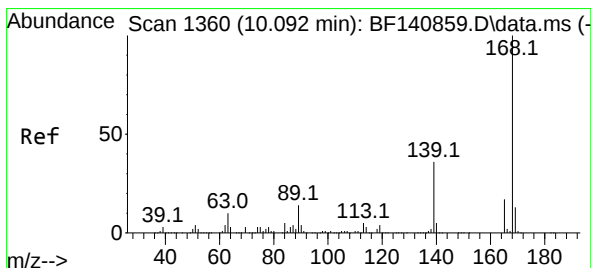
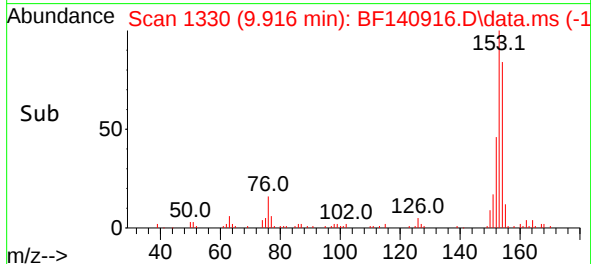
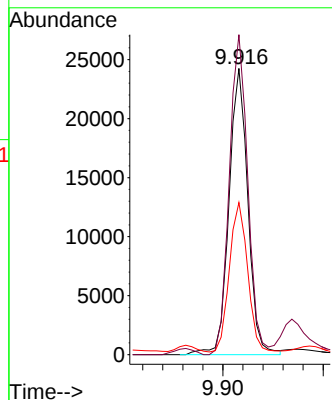
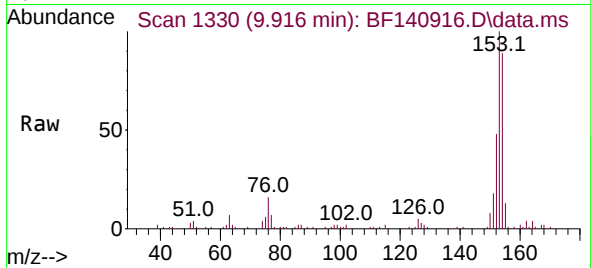




#52
Acenaphthene
Concen: 3.735 ng
RT: 9.916 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

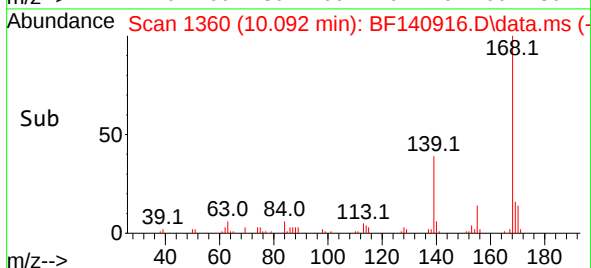
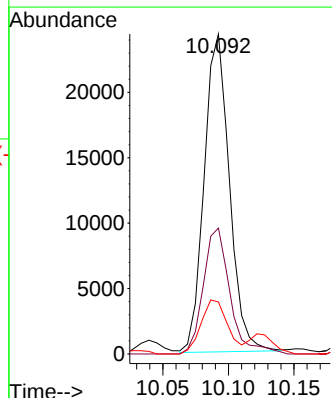
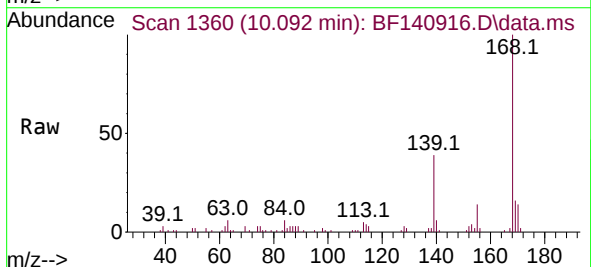
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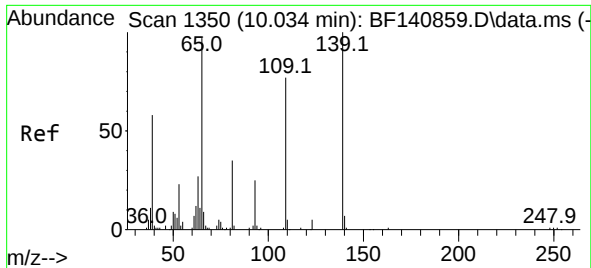
Tgt Ion:154 Resp: 31670
Ion Ratio Lower Upper
154 100
153 111.8 89.9 134.9
152 53.2 42.6 63.8



#55
Dibenzofuran
Concen: 2.476 ng
RT: 10.092 min Scan# 1360
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:168 Resp: 32540
Ion Ratio Lower Upper
168 100
139 39.4 31.1 46.7
169 16.2 10.6 16.0#

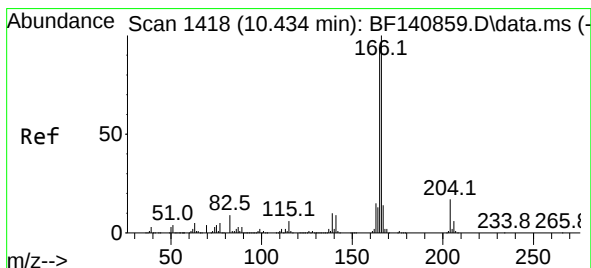
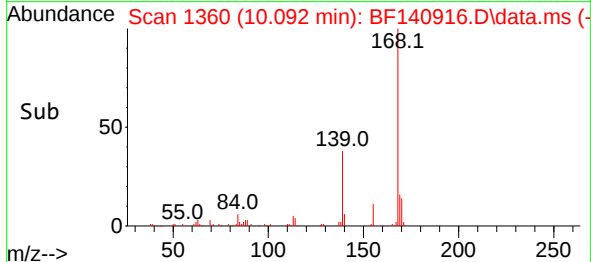
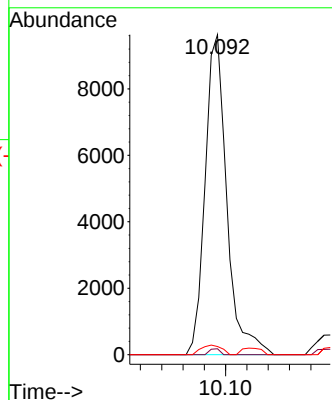
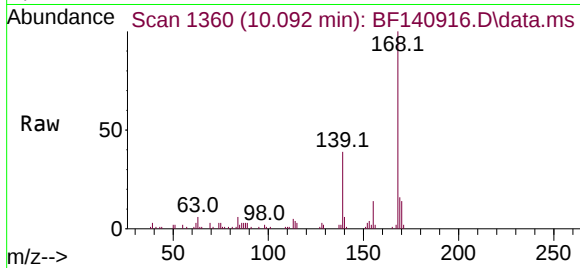




#56
4-Nitrophenol
Concen: 14.501 ng
RT: 10.092 min Scan# 1360
Delta R.T. 0.058 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

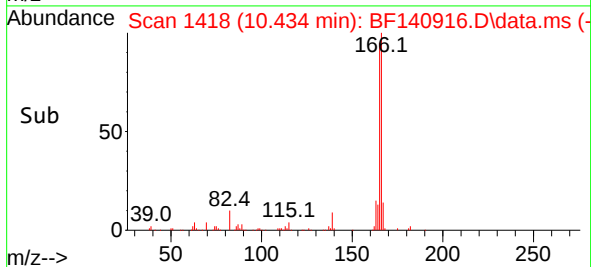
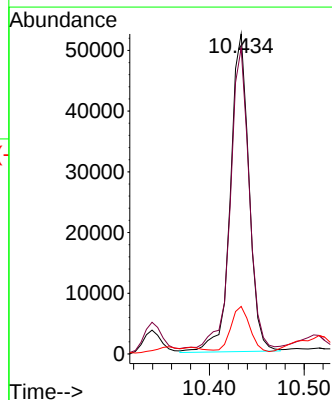
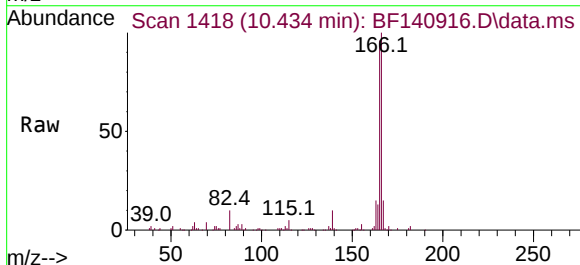
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

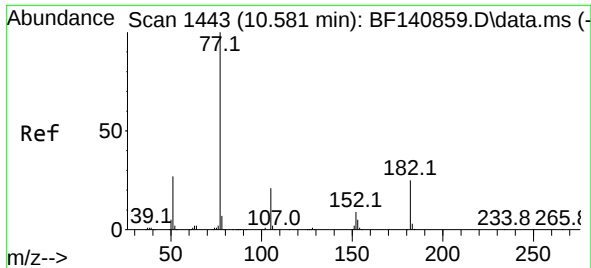
Tgt Ion:139 Resp: 13607
Ion Ratio Lower Upper
139 100
109 1.8 56.7 96.7#
65 2.5 78.1 118.1#



#58
Fluorene
Concen: 6.610 ng
RT: 10.434 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:166 Resp: 71653
Ion Ratio Lower Upper
166 100
165 95.6 75.1 112.7
167 14.9 11.1 16.7

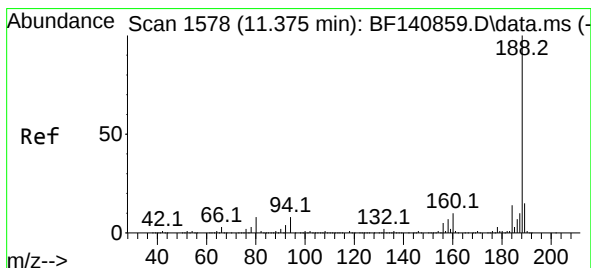
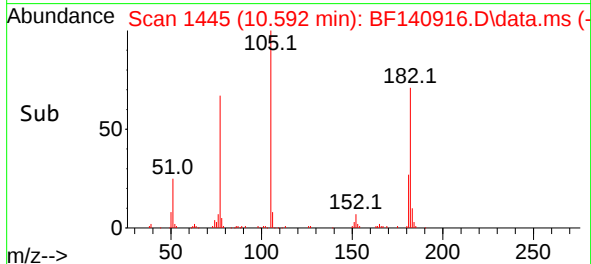
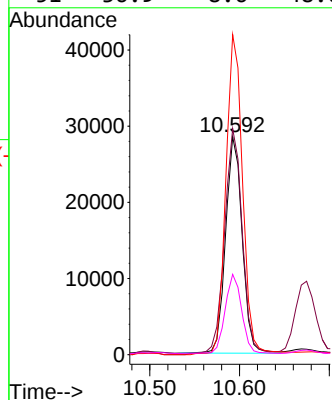
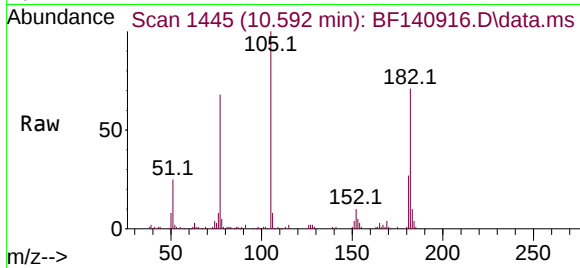




#63
Azobenzene
Concen: 3.582 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.012 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

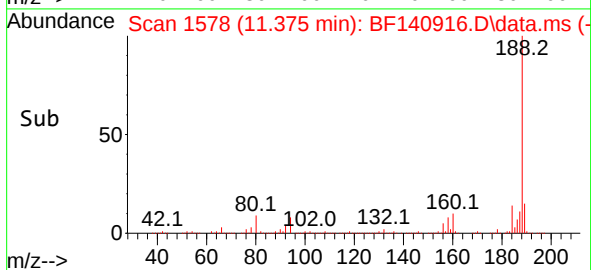
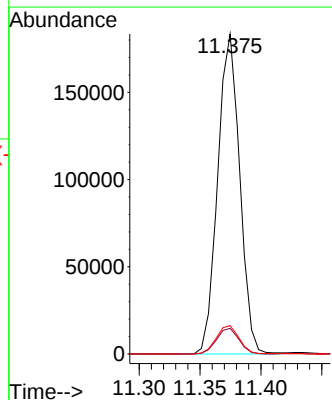
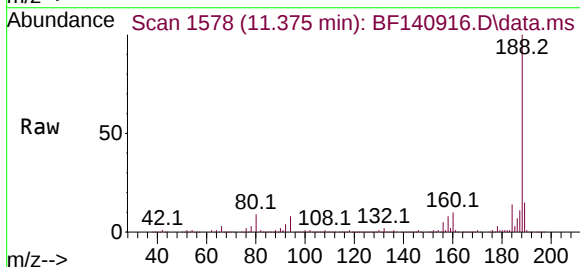
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

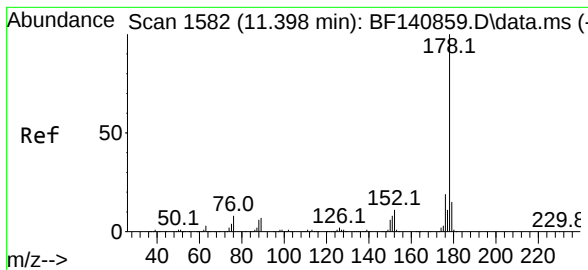
Tgt Ion: 77	Resp: 36558
Ion Ratio	Lower Upper
77 100	
182 103.7	4.5 44.5#
105 146.8	0.9 40.9#
51 36.9	8.6 48.6



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion: 188	Resp: 231068
Ion Ratio	Lower Upper
188 100	
94 8.0	6.4 9.6
80 8.8	6.8 10.2

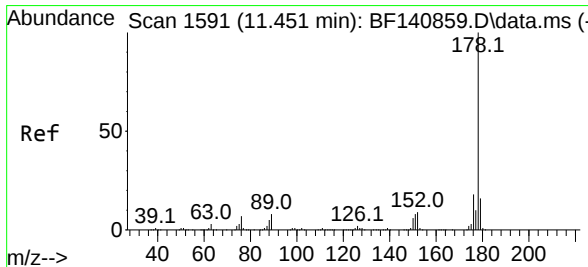
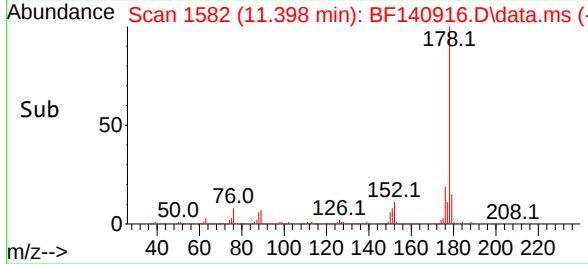
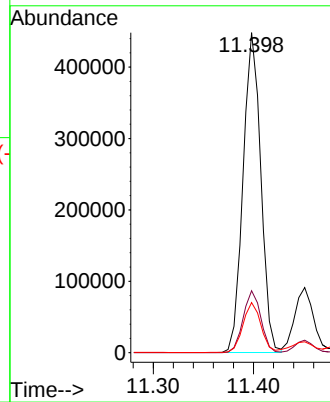
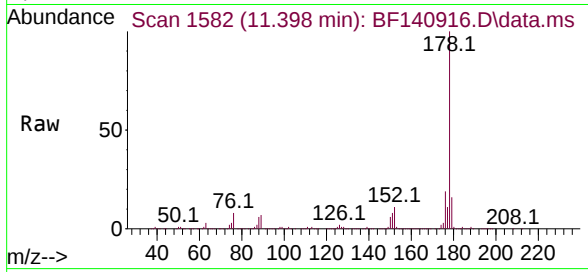




#71
Phenanthrene
Concen: 46.463 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

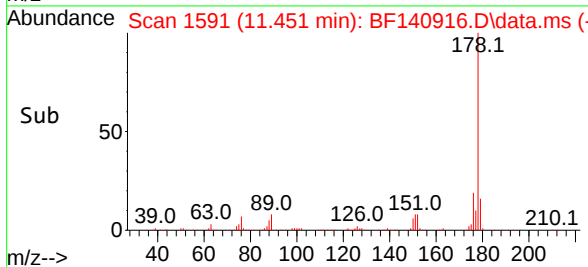
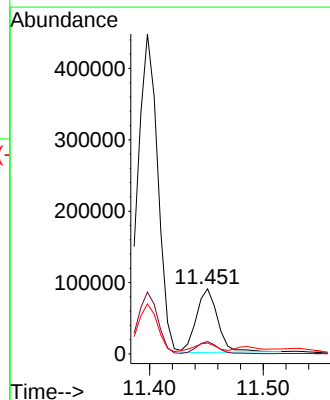
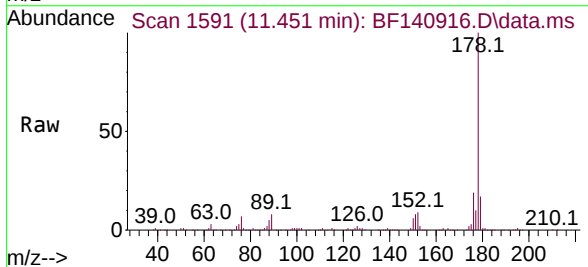
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

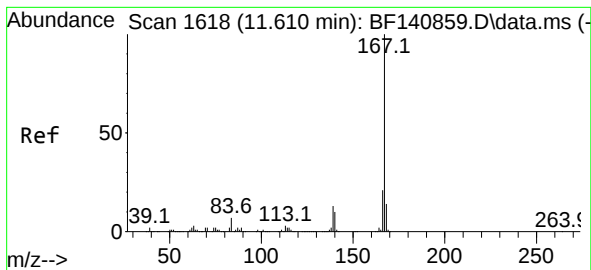
Tgt Ion:178 Resp: 552102
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.6 12.1 18.1



#72
Anthracene
Concen: 9.913 ng
RT: 11.451 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:178 Resp: 116001
Ion Ratio Lower Upper
178 100
176 19.1 14.6 22.0
179 16.8 12.6 18.8





#73

Carbazole

Concen: 3.226 ng

RT: 11.610 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

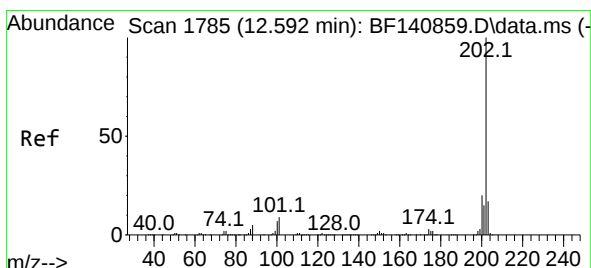
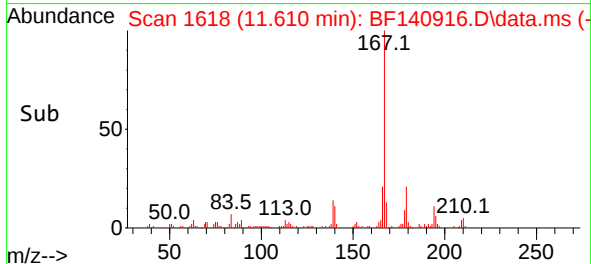
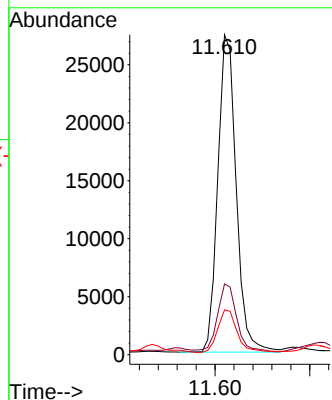
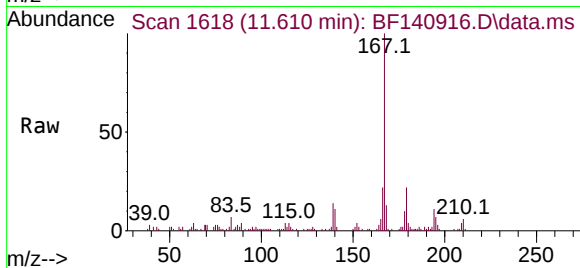
Tgt Ion:167 Resp: 36977

Ion Ratio Lower Upper

167 100

166 22.1 17.0 25.6

139 14.0 10.2 15.2



#75

Fluoranthene

Concen: 42.387 ng

RT: 12.592 min Scan# 1785

Delta R.T. 0.000 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

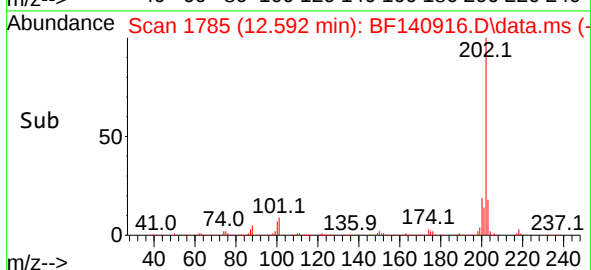
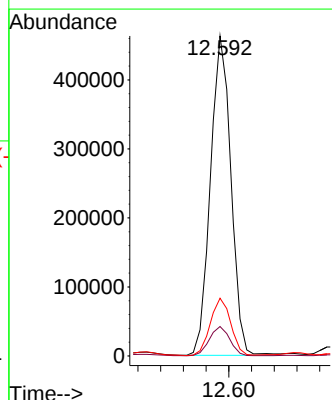
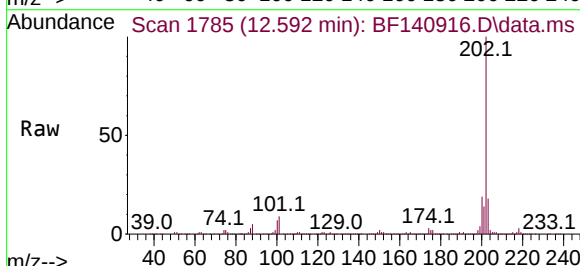
Tgt Ion:202 Resp: 580055

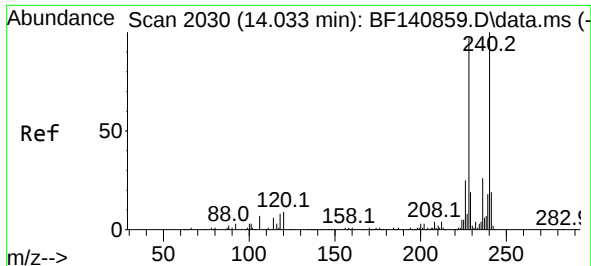
Ion Ratio Lower Upper

202 100

101 9.2 0.0 29.3

203 18.0 0.0 37.4

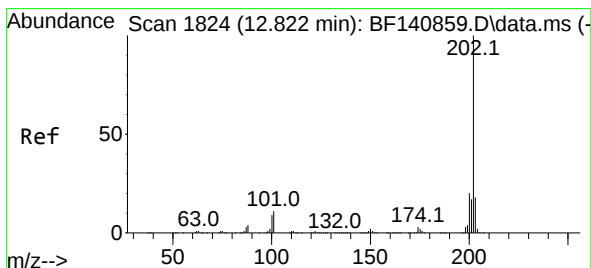
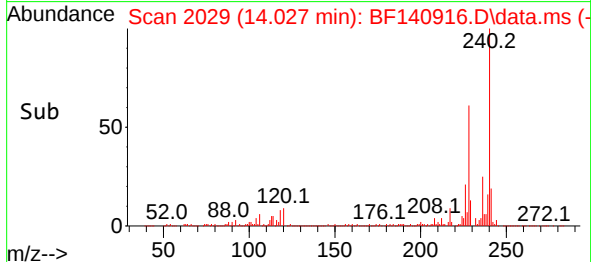
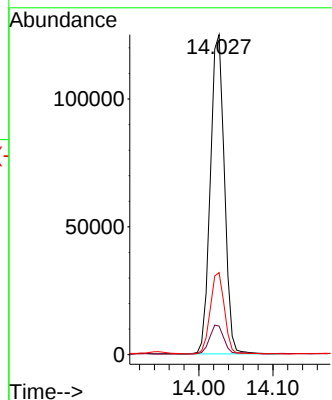
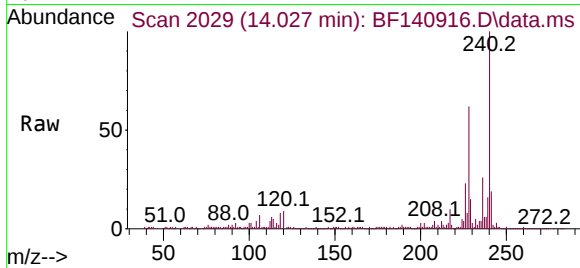




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

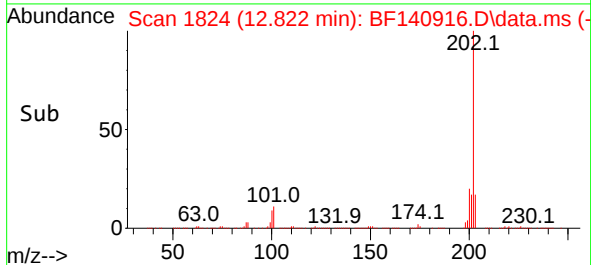
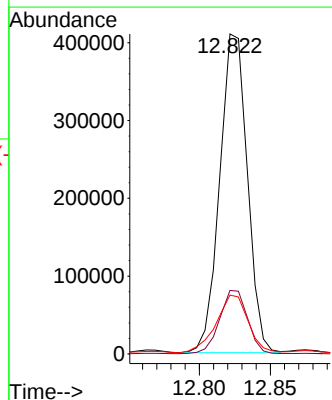
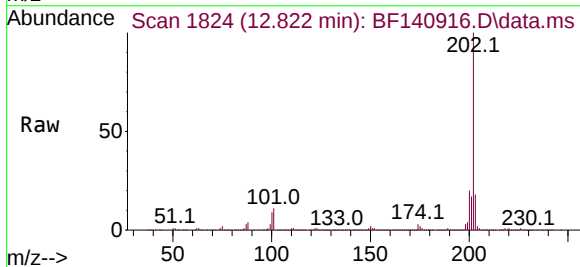
Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

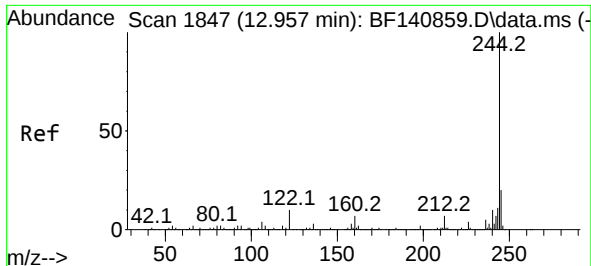
Tgt Ion:240 Resp: 164353
Ion Ratio Lower Upper
240 100
120 8.9 7.6 11.4
236 25.7 20.5 30.7



#78
Pyrene
Concen: 37.954 ng
RT: 12.822 min Scan# 1824
Delta R.T. 0.000 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:202 Resp: 554700
Ion Ratio Lower Upper
202 100
200 19.8 16.1 24.1
203 18.4 14.2 21.4

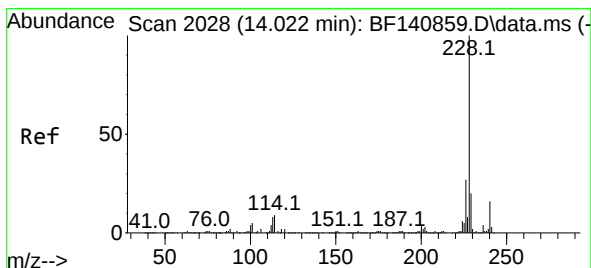
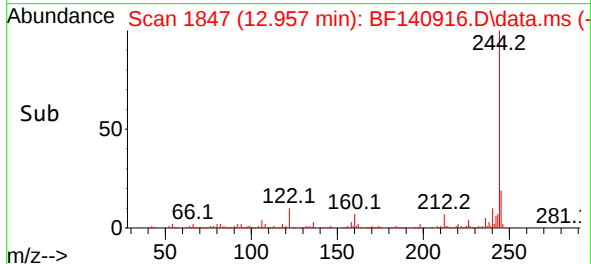
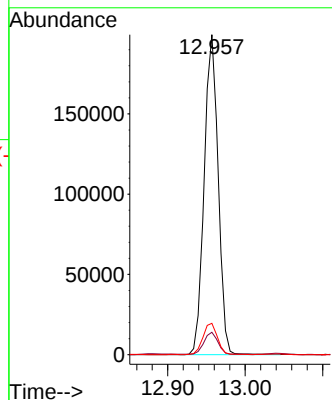
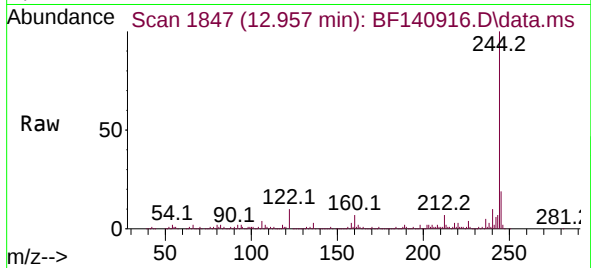




#79
 Terphenyl-d14
 Concen: 23.960 ng
 RT: 12.957 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF140916.D
 Acq: 18 Dec 2024 19:49

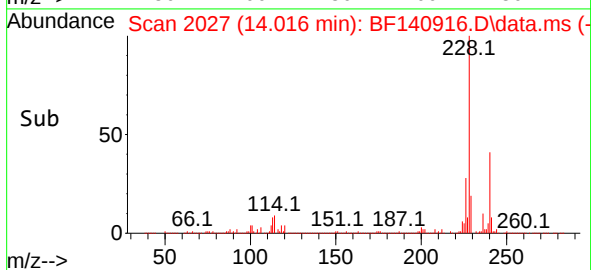
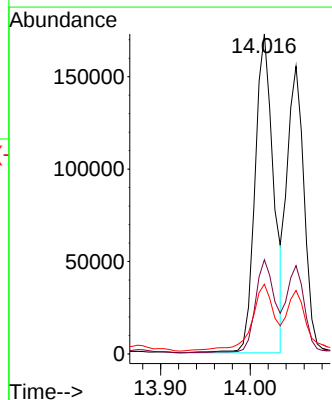
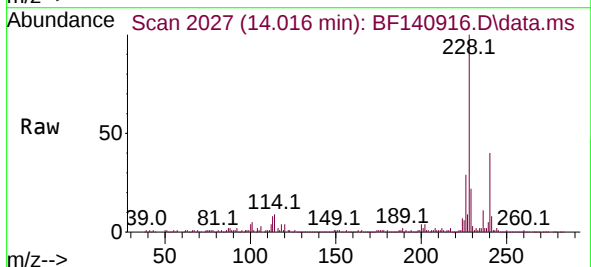
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-12122024DL

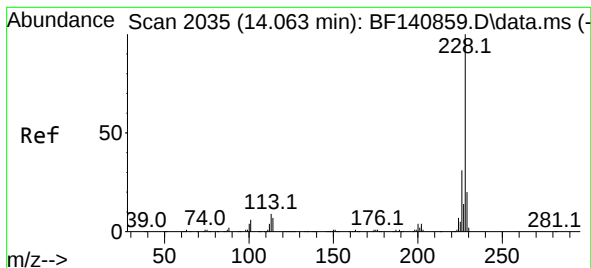
Tgt Ion:244 Resp: 249731
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.6 8.4
 122 9.8 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 21.293 ng
 RT: 14.016 min Scan# 2027
 Delta R.T. -0.006 min
 Lab File: BF140916.D
 Acq: 18 Dec 2024 19:49

Tgt Ion:228 Resp: 248028
 Ion Ratio Lower Upper
 228 100
 226 29.4 21.8 32.8
 229 21.8 15.8 23.8





#83

Chrysene

Concen: 19.162 ng

RT: 14.051 min Scan# 2035

Delta R.T. -0.012 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

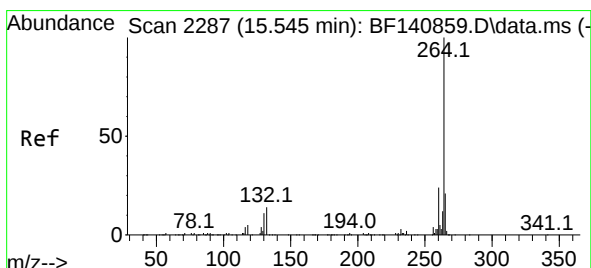
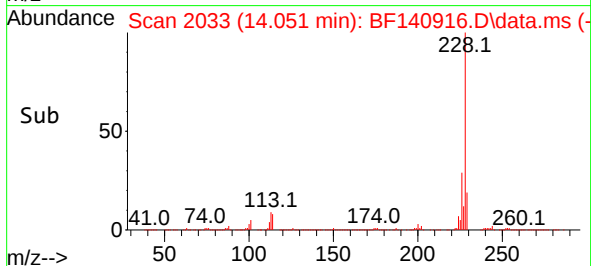
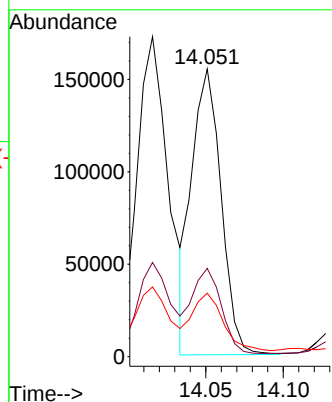
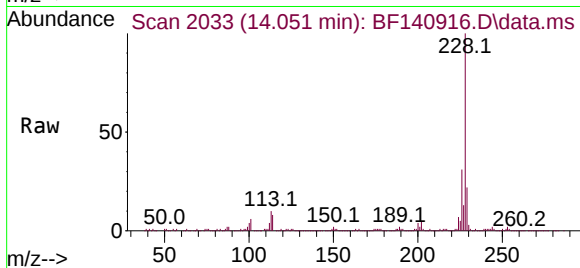
Tgt Ion:228 Resp: 202969

Ion Ratio Lower Upper

228 100

226 30.7 24.1 36.1

229 22.1 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. -0.035 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

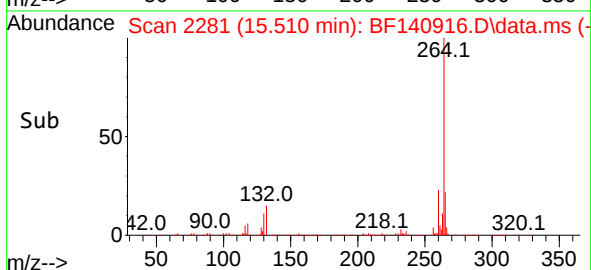
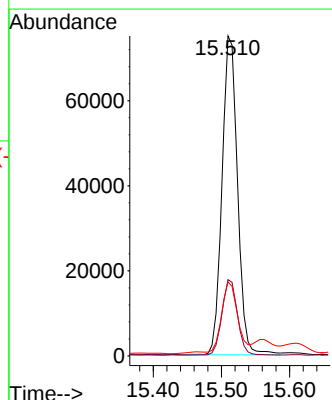
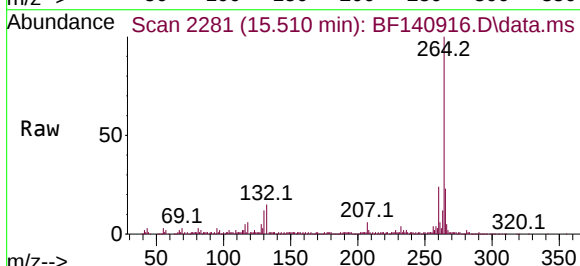
Tgt Ion:264 Resp: 118773

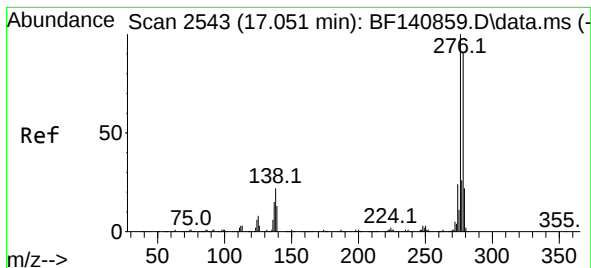
Ion Ratio Lower Upper

264 100

260 23.8 19.1 28.7

265 23.1 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.403 ng

RT: 17.021 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

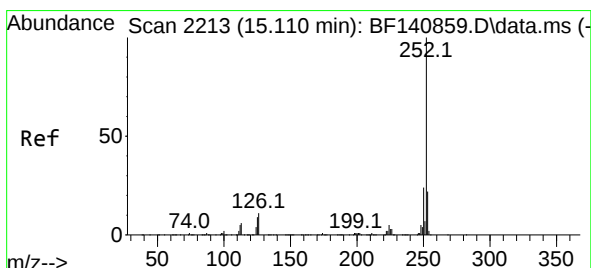
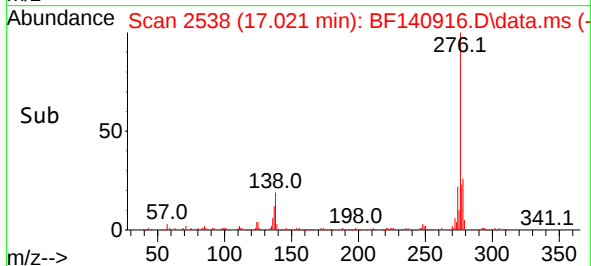
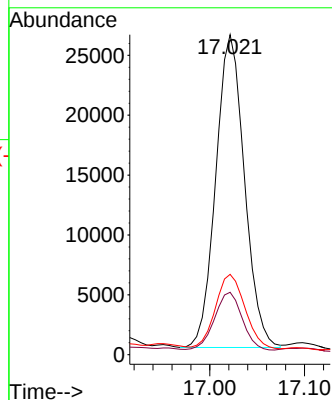
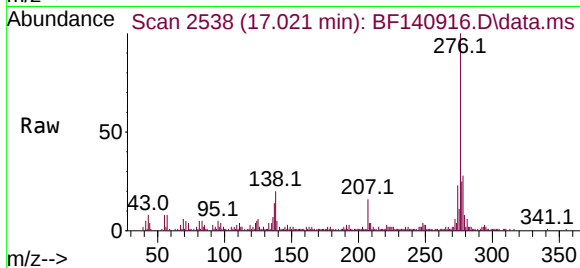
Tgt Ion:276 Resp: 54867

Ion Ratio Lower Upper

276 100

138 18.3 16.9 25.3

277 25.2 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 24.741 ng

RT: 15.080 min Scan# 2208

Delta R.T. -0.029 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

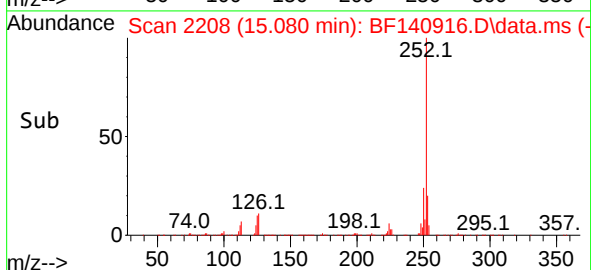
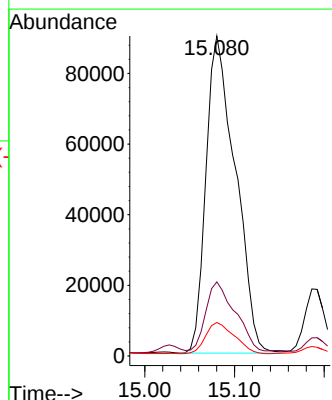
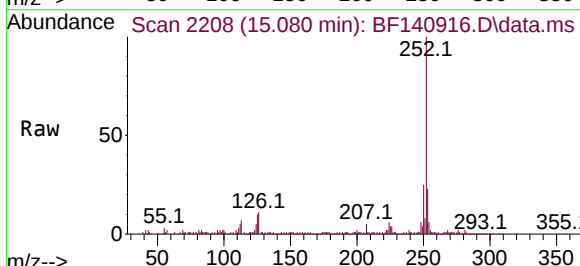
Tgt Ion:252 Resp: 203977

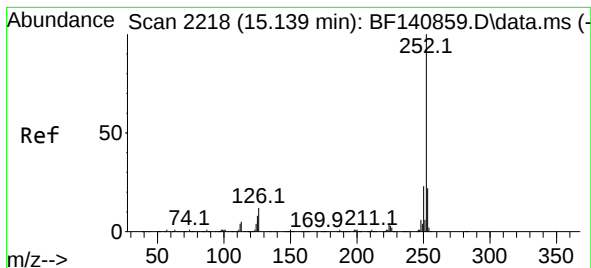
Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

125 10.5 7.0 10.4#





#89

Benzo(k)fluoranthene

Concen: 28.842 ng

RT: 15.080 min Scan# 21

Delta R.T. -0.059 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

Instrument :

BNA_F

ClientSampleId :

OR-02-12122024DL

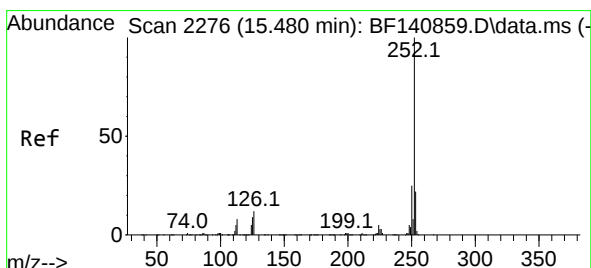
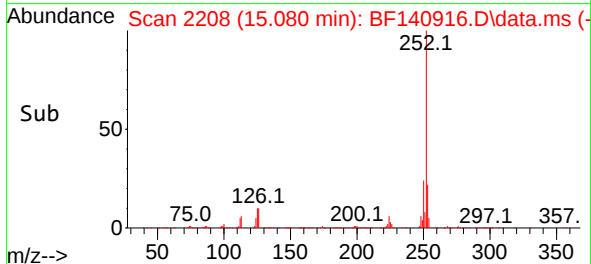
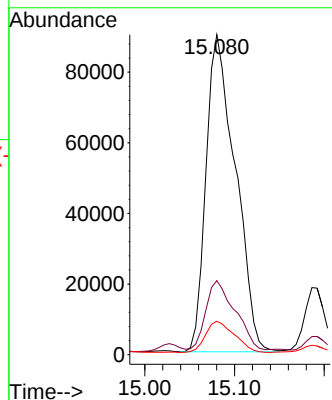
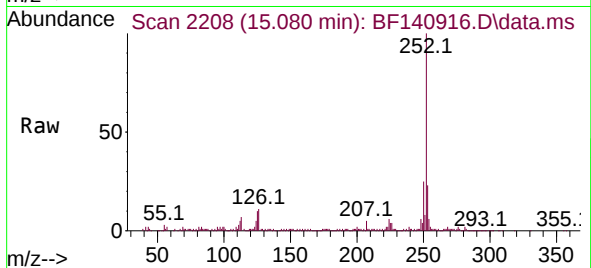
Tgt Ion:252 Resp: 203977

Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

125 10.5 6.8 10.2#



#90

Benzo(a)pyrene

Concen: 16.807 ng

RT: 15.451 min Scan# 2271

Delta R.T. -0.029 min

Lab File: BF140916.D

Acq: 18 Dec 2024 19:49

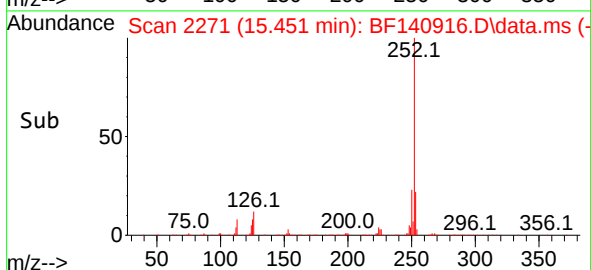
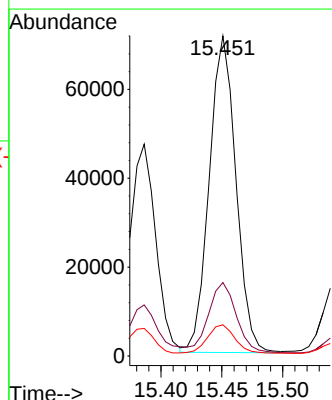
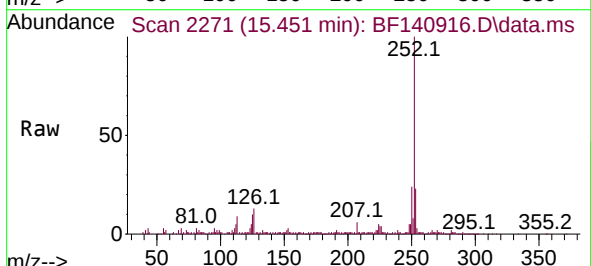
Tgt Ion:252 Resp: 108503

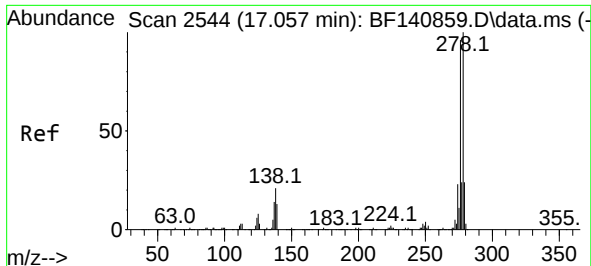
Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 9.7 7.5 11.3

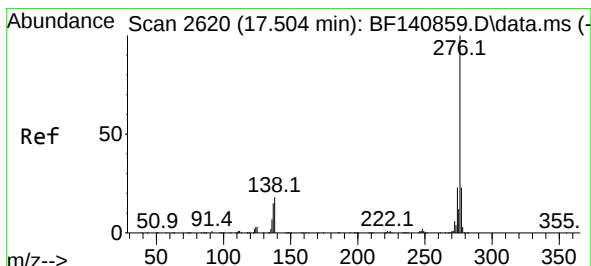
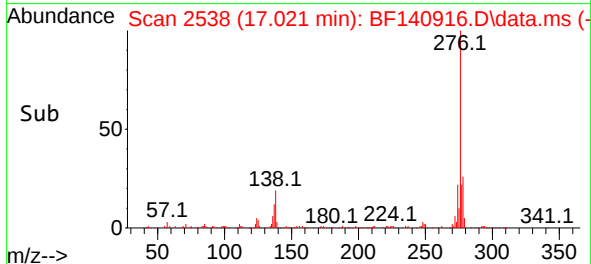
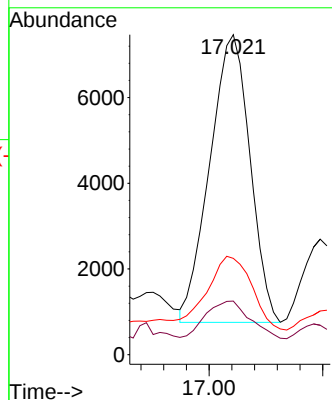
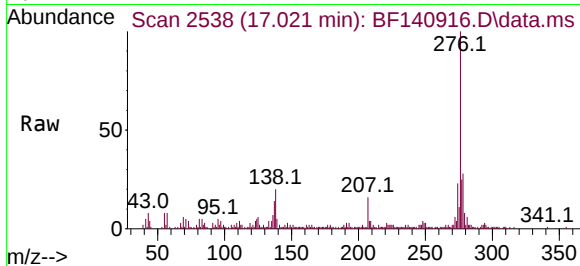




#91
Dibenzo(a,h)anthracene
Concen: 2.681 ng
RT: 17.021 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Instrument :
BNA_F
ClientSampleId :
OR-02-12122024DL

Tgt Ion:278 Resp: 16463
Ion Ratio Lower Upper
278 100
139 16.7 10.6 16.0#
279 30.1 19.2 28.8#



#92
Benzo(g,h,i)perylene
Concen: 8.592 ng
RT: 17.480 min Scan# 2616
Delta R.T. -0.024 min
Lab File: BF140916.D
Acq: 18 Dec 2024 19:49

Tgt Ion:276 Resp: 53697
Ion Ratio Lower Upper
276 100
277 26.5 18.7 28.1
138 18.3 14.2 21.2

