

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111125\
 Data File : BF144220.D
 Acq On : 11 Nov 2025 23:56
 Operator : RC/JU
 Sample : Q3593-10
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 D-LAW-25-0156-0166-COMP

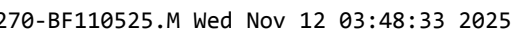
Quant Time: Nov 12 03:48:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	76644	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	293204	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	125412	20.000	ng	0.00
64) Phenanthrene-d10	11.421	188	160653	20.000	ng	# 0.02
76) Chrysene-d12	14.062	240	160304	20.000	ng	0.01
86) Perylene-d12	15.539	264	189629	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	284417	58.071	ng	0.00
7) Phenol-d6	6.498	99	326821	58.891	ng	0.00
23) Nitrobenzene-d5	7.433	82	212338	41.826	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	71647	45.526	ng	0.01
45) 2-Fluorobiphenyl	9.227	172	365263	43.016	ng	0.00
79) Terphenyl-d14	13.004	244	258118	25.576	ng	0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.433	70	30278	8.288	ng	# 77
25) Isophorone	7.433	82	212336	22.112	ng	# 66
51) 2,6-Dinitrotoluene	9.680	165	6387	3.798	ng	# 33
53) 3-Nitroaniline	9.869	138	4941	2.687	ng	# 31
70) Pentachlorophenol	11.257	266	4934	4.102	ng	# 12
71) Phenanthrene	11.445	178	154882	19.363	ng	# 88
75) Fluoranthene	12.639	202	365056	44.181	ng	99
78) Pyrene	12.868	202	340273	26.326	ng	97
81) Benzo(a)anthracene	14.051	228	235344	21.183	ng	97
83) Chrysene	14.086	228	226223	22.057	ng	95
84) Bis(2-ethylhexyl)phtha...	14.027	149	38230	6.234	ng	94
87) Indeno(1,2,3-cd)pyrene	17.033	276	90757	6.667	ng	97
88) Benzo(b)fluoranthene	15.109	252	402696	37.353	ng	98
89) Benzo(k)fluoranthene	15.109	252	402696	39.907	ng	99
90) Benzo(a)pyrene	15.474	252	178637	17.961	ng	96
91) Dibenzo(a,h)anthracene	17.045	278	25078	2.294	ng	# 90
92) Benzo(g,h,i)perylene	17.492	276	85670	7.936	ng	99

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

Quant Time: Nov 12 03:48:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

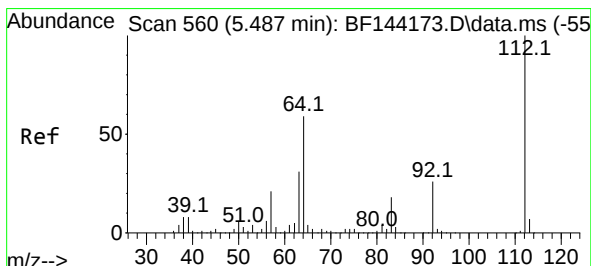
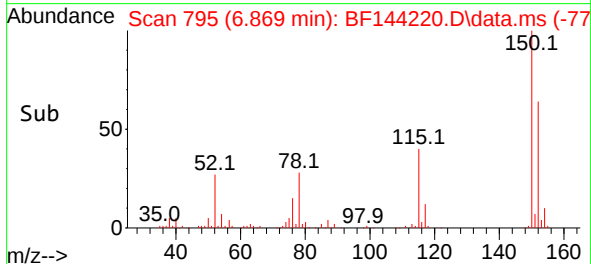
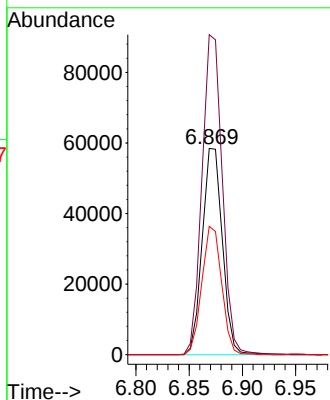
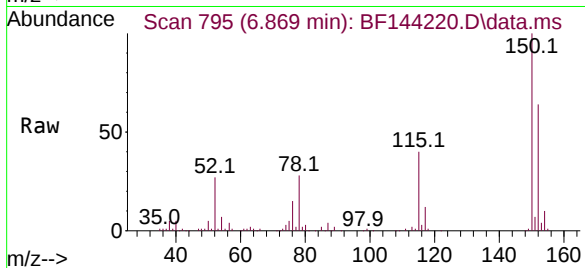




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 796
Delta R.T. -0.006 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

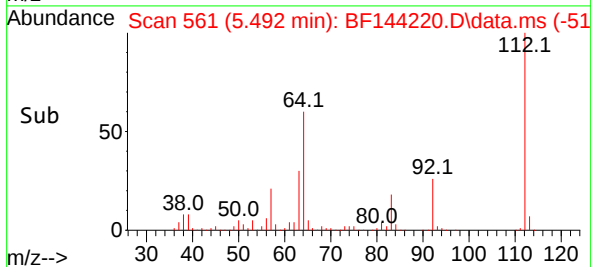
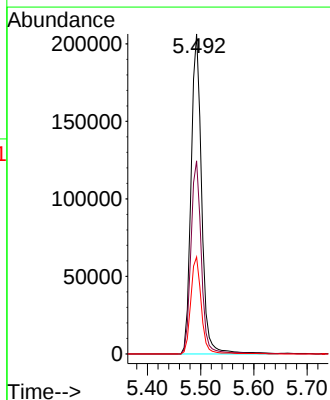
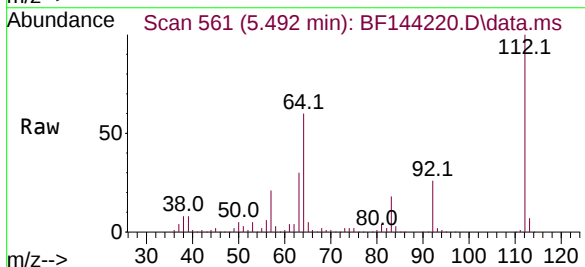
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

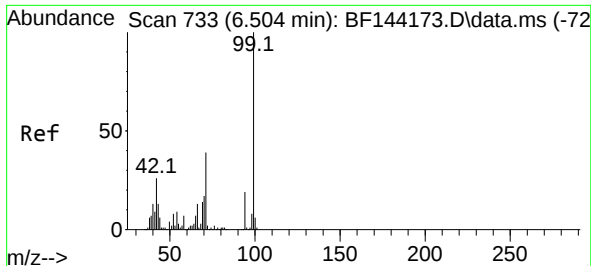
Tgt Ion:152 Resp: 76644
Ion Ratio Lower Upper
152 100
150 155.2 127.4 191.0
115 62.2 49.5 74.3



#5
2-Fluorophenol
Concen: 58.071 ng
RT: 5.492 min Scan# 561
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:112 Resp: 284417
Ion Ratio Lower Upper
112 100
64 60.3 47.2 70.8
63 30.3 24.4 36.6

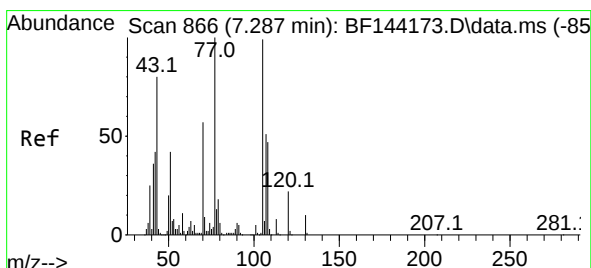
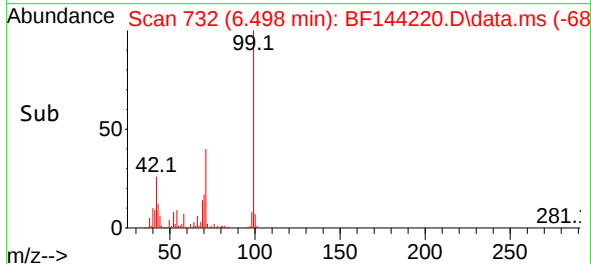
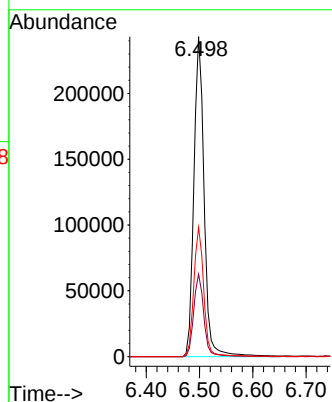
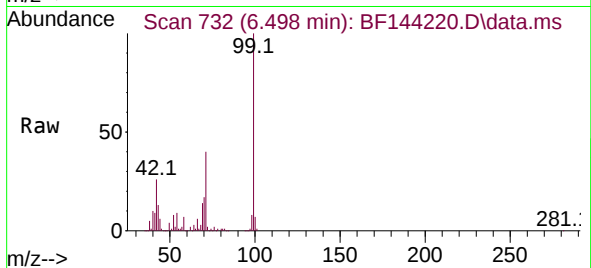




#7
Phenol-d6
Concen: 58.891 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

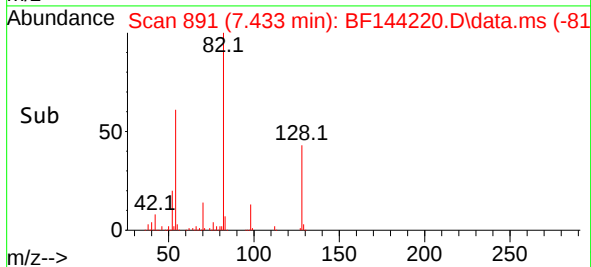
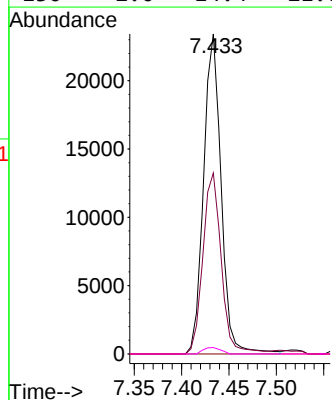
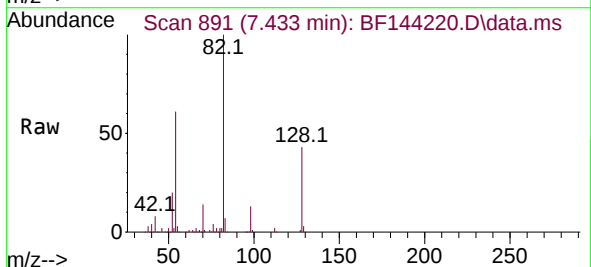
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

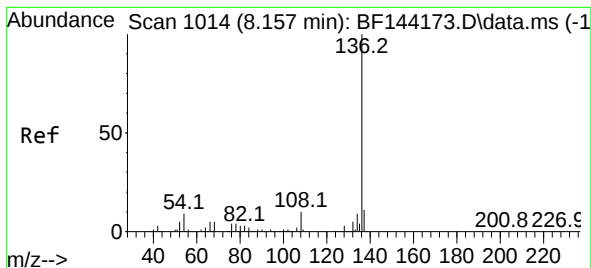
Tgt Ion: 99 Resp: 326821
Ion Ratio Lower Upper
99 100
42 25.8 20.9 31.3
71 40.4 31.4 47.2



#19
n-Nitroso-di-n-propylamine
Concen: 8.288 ng
RT: 7.433 min Scan# 891
Delta R.T. 0.159 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion: 70 Resp: 30278
Ion Ratio Lower Upper
70 100
42 56.5 58.3 87.5#
101 0.0 7.0 10.6#
130 2.0 14.4 21.6#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1014

Delta R.T. -0.000 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

D-LAW-25-0156-0166-COMP

Tgt Ion:136 Resp: 293204

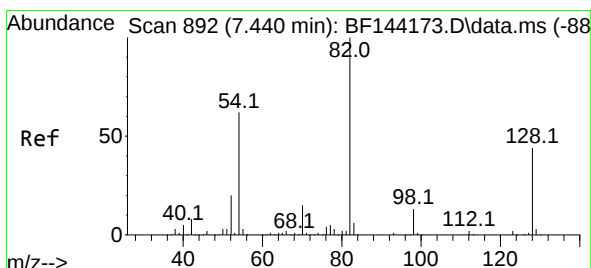
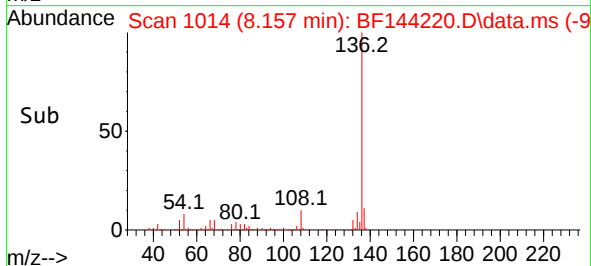
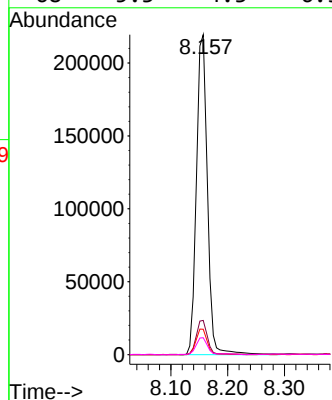
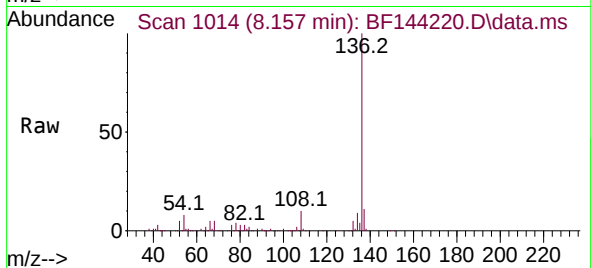
Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

54 7.9 7.0 10.6

68 5.3 4.3 6.5



#23

Nitrobenzene-d5

Concen: 41.826 ng

RT: 7.433 min Scan# 891

Delta R.T. -0.000 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

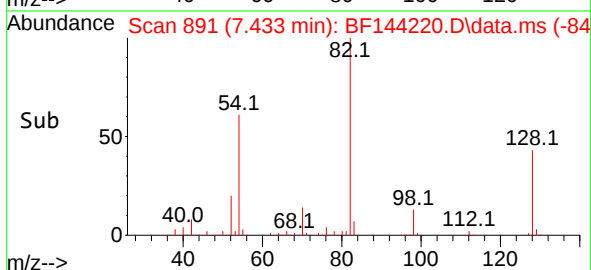
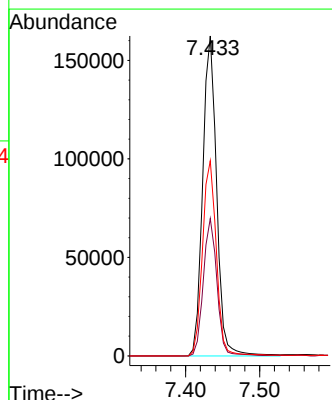
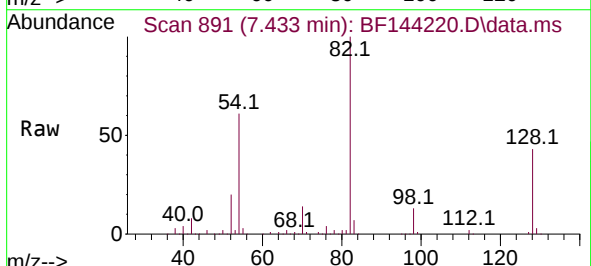
Tgt Ion: 82 Resp: 212338

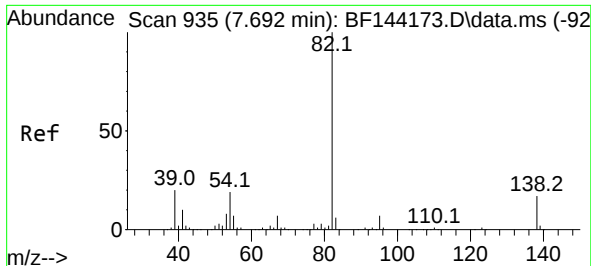
Ion Ratio Lower Upper

82 100

128 42.9 34.7 52.1

54 61.0 49.5 74.3

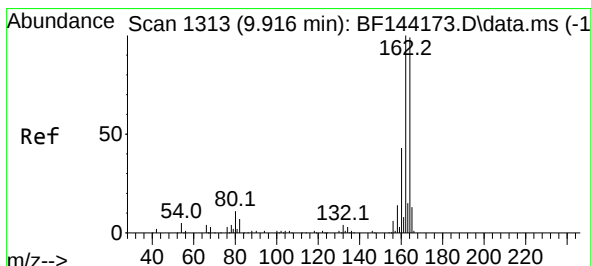
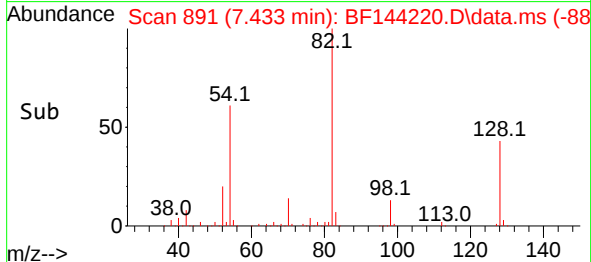
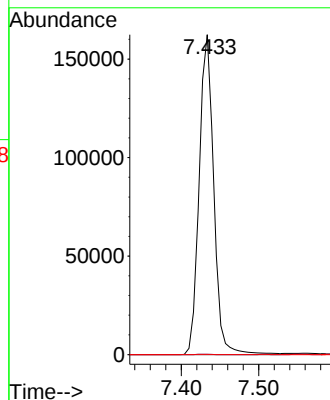
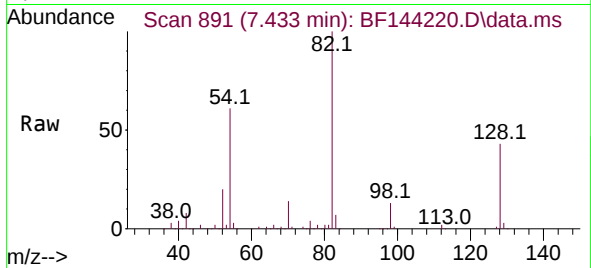




#25
Isophorone
Concen: 22.112 ng
RT: 7.433 min Scan# 89
Delta R.T. -0.253 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

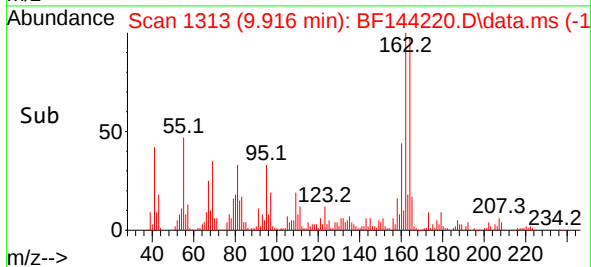
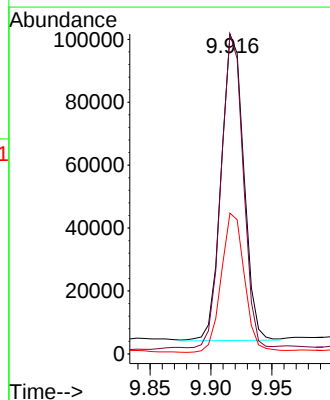
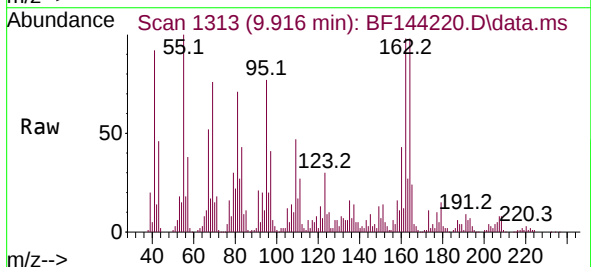
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

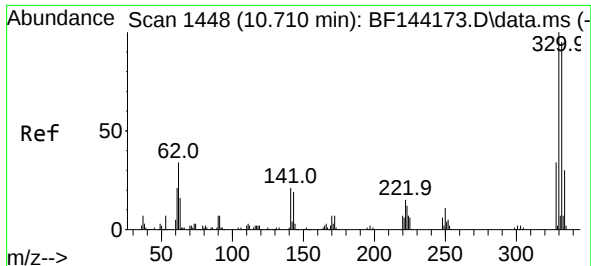
Tgt Ion: 82 Resp: 212336
Ion Ratio Lower Upper
82 100
95 0.1 5.5 8.3#
138 0.0 13.7 20.5#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:164 Resp: 125412
Ion Ratio Lower Upper
164 100
162 100.1 81.1 121.7
160 44.0 34.5 51.7

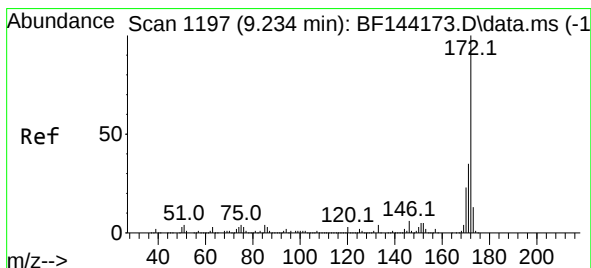
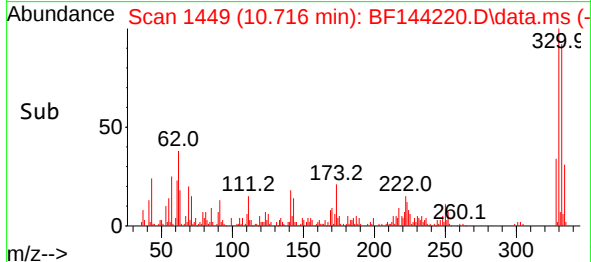
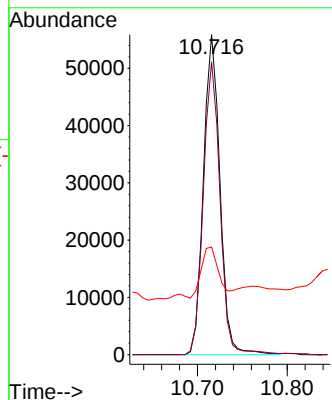
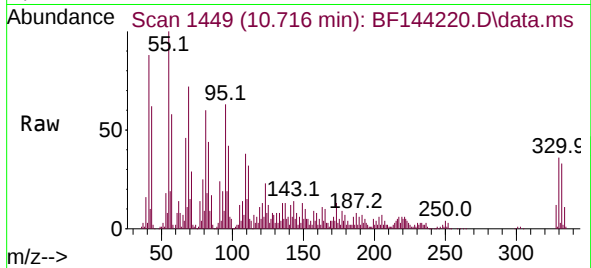




#42
2,4,6-Tribromophenol
Concen: 45.526 ng
RT: 10.716 min Scan# 1448
Delta R.T. 0.011 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

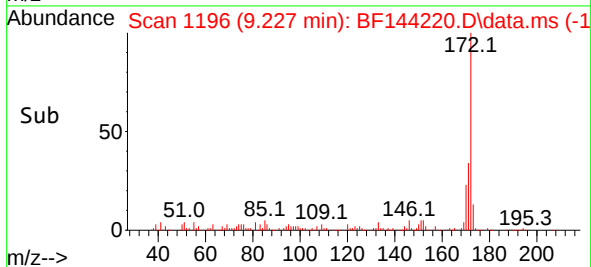
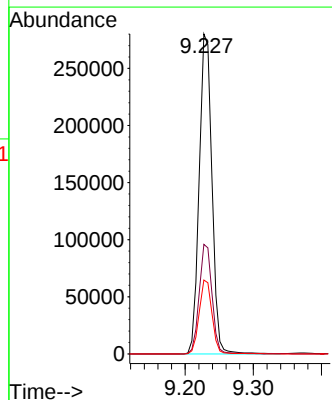
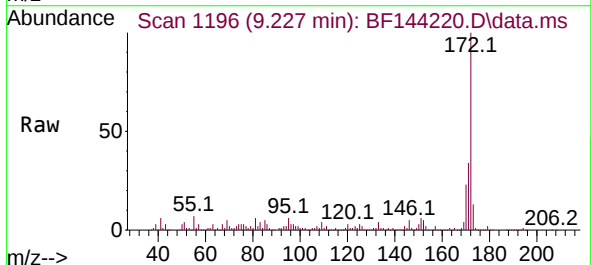
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

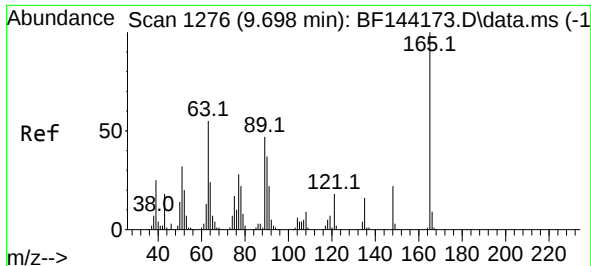
Tgt Ion:330 Resp: 71647
Ion Ratio Lower Upper
330 100
332 92.8 76.7 115.1
141 17.1 17.8 26.8#



#45
2-Fluorobiphenyl
Concen: 43.016 ng
RT: 9.227 min Scan# 1196
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:172 Resp: 365263
Ion Ratio Lower Upper
172 100
171 34.2 28.1 42.1
170 23.1 18.6 28.0

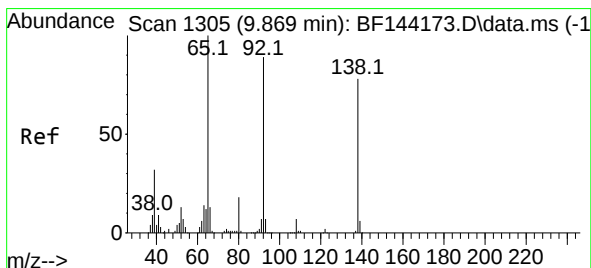
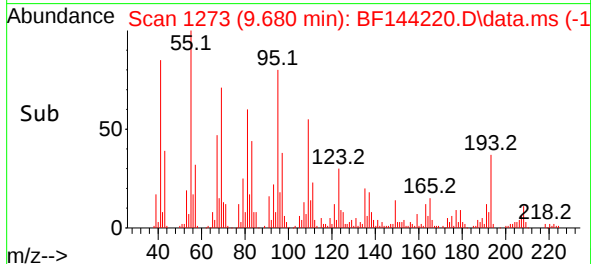
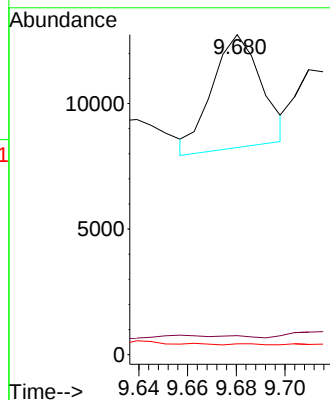
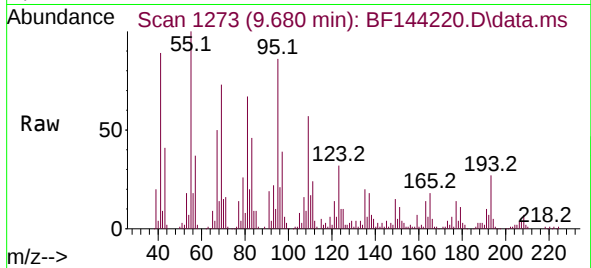




#51
2,6-Dinitrotoluene
Concen: 3.798 ng
RT: 9.680 min Scan# 1276
Delta R.T. -0.012 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

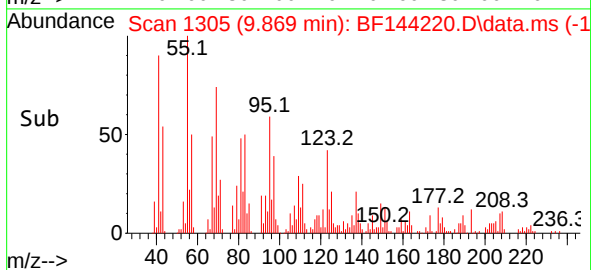
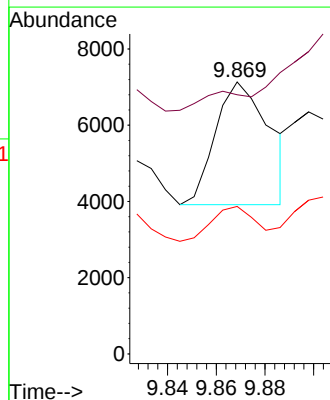
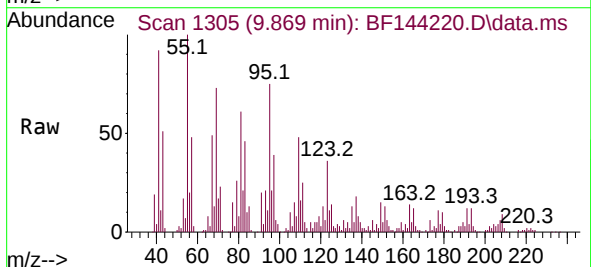
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

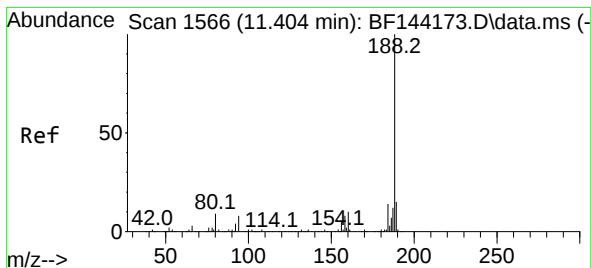
Tgt Ion:165 Resp: 6387
Ion Ratio Lower Upper
165 100
63 5.9 43.8 65.8#
89 3.4 37.5 56.3#



#53
3-Nitroaniline
Concen: 2.687 ng
RT: 9.869 min Scan# 1305
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:138 Resp: 4941
Ion Ratio Lower Upper
138 100
108 95.3 7.5 11.3#
92 54.2 91.8 137.6#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.421 min Scan# 1569

Delta R.T. 0.017 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

D-LAW-25-0156-0166-COMP

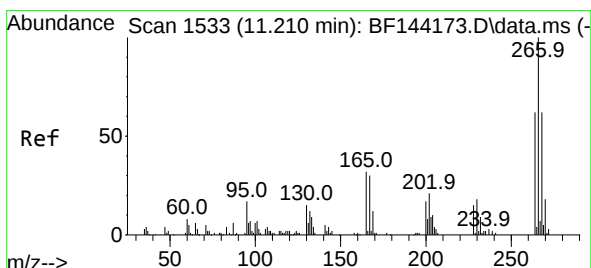
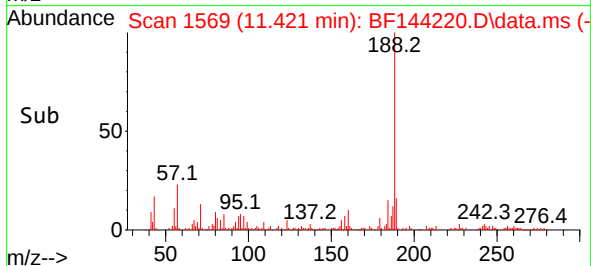
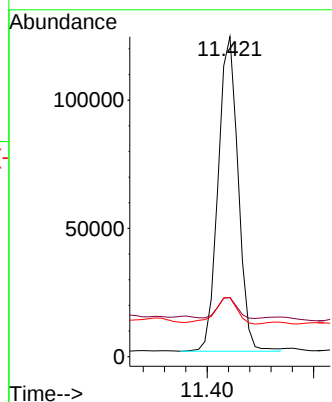
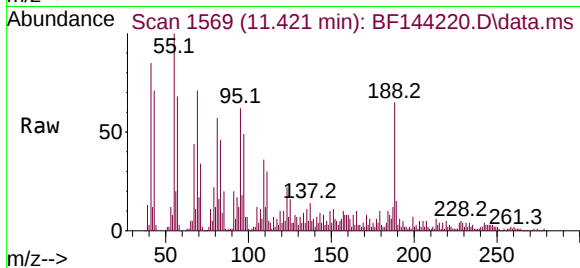
Tgt Ion:188 Resp: 160653

Ion Ratio Lower Upper

188 100

94 18.5 6.2 9.2#

80 18.4 6.9 10.3#



#70

Pentachlorophenol

Concen: 4.102 ng

RT: 11.257 min Scan# 1541

Delta R.T. 0.041 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

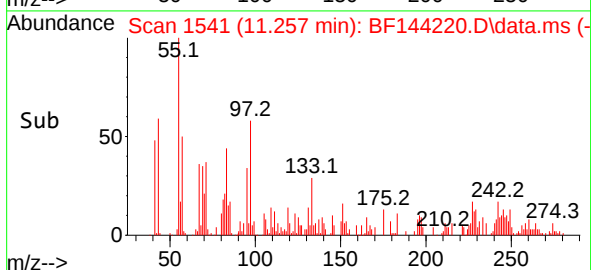
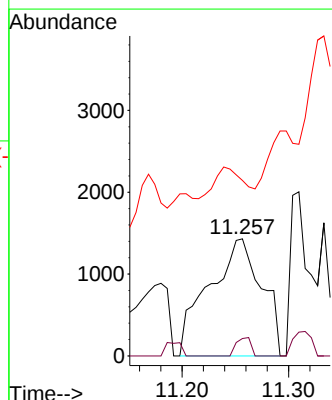
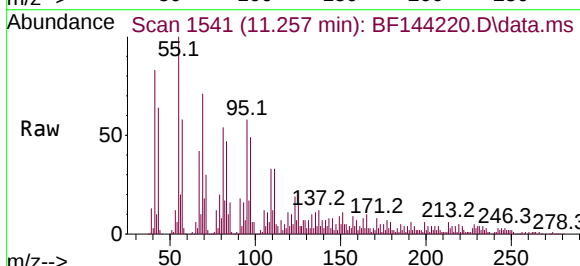
Tgt Ion:266 Resp: 4934

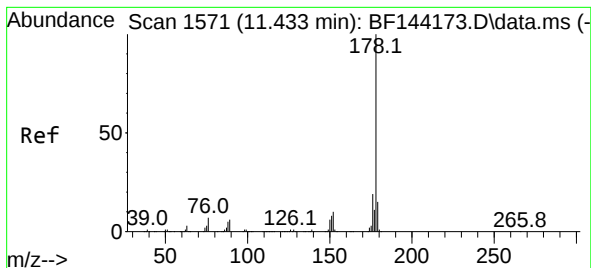
Ion Ratio Lower Upper

266 100

268 14.9 49.5 74.3#

264 150.0 49.4 74.2#





#71

Phenanthrene

Concen: 19.363 ng

RT: 11.445 min Scan# 11

Delta R.T. 0.017 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

D-LAW-25-0156-0166-COMP

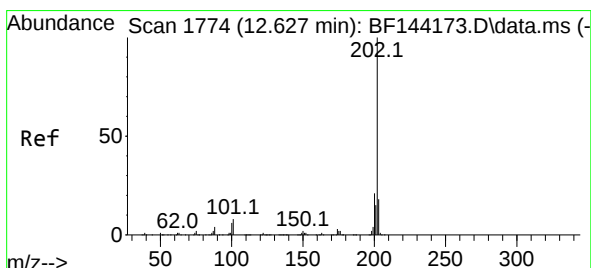
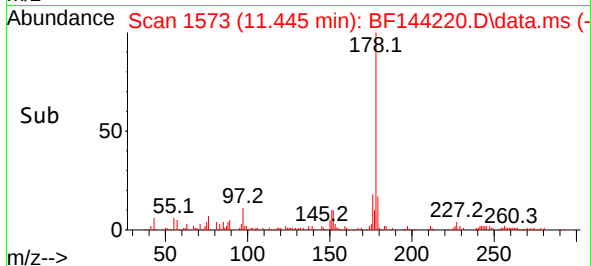
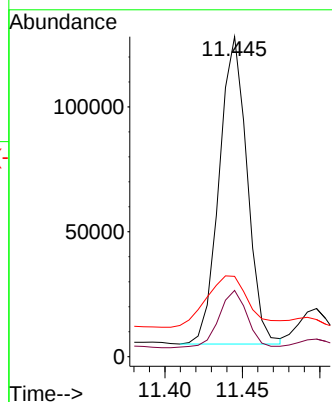
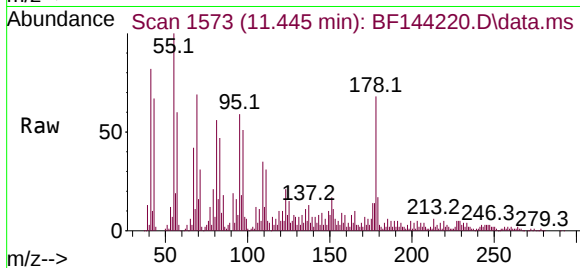
Tgt Ion:178 Resp: 154882

Ion Ratio Lower Upper

178 100

176 20.7 15.5 23.3

179 25.1 12.2 18.4#



#75

Fluoranthene

Concen: 44.181 ng

RT: 12.639 min Scan# 1776

Delta R.T. 0.017 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

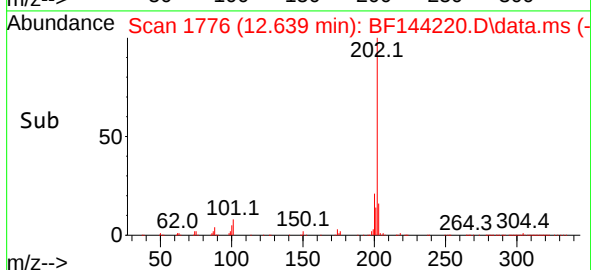
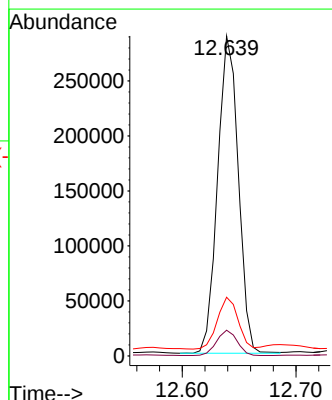
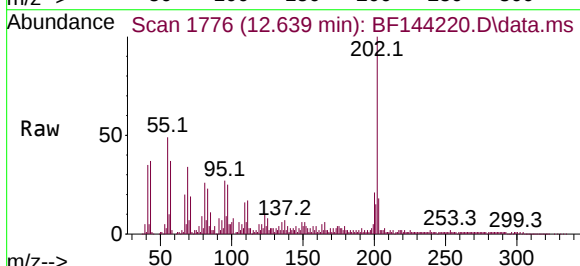
Tgt Ion:202 Resp: 365056

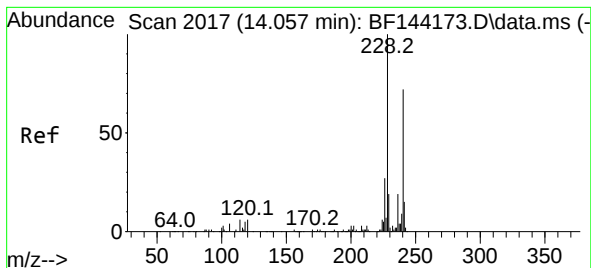
Ion Ratio Lower Upper

202 100

101 8.0 0.0 27.9

203 18.3 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.062 min Scan# 20

Delta R.T. 0.011 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

D-LAW-25-0156-0166-COMP

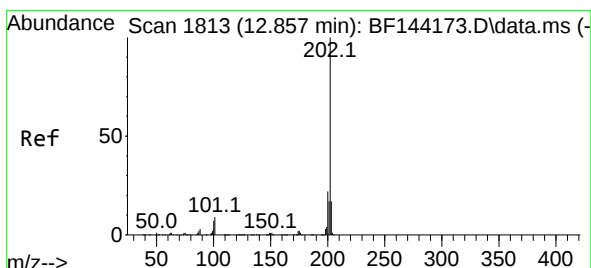
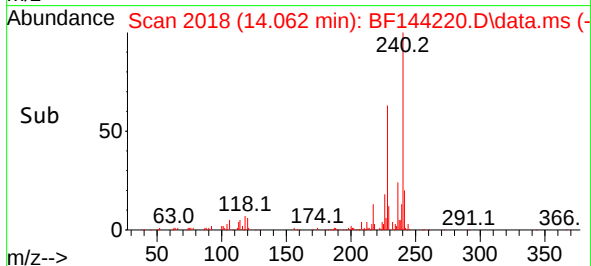
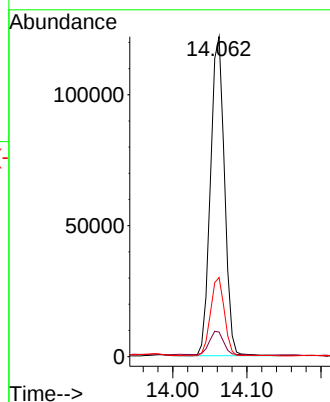
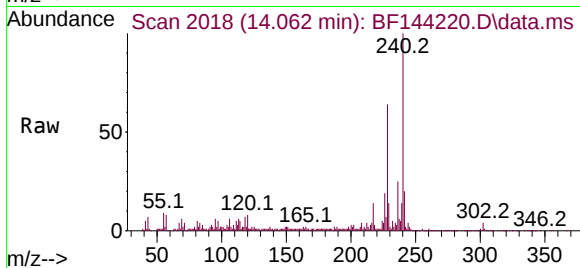
Tgt Ion:240 Resp: 160304

Ion Ratio Lower Upper

240 100

120 7.7 6.6 10.0

236 24.7 21.4 32.2



#78

Pyrene

Concen: 26.326 ng

RT: 12.868 min Scan# 1815

Delta R.T. 0.017 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

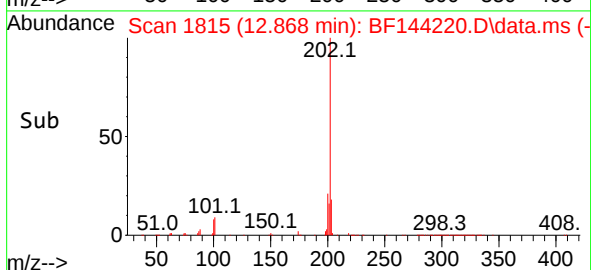
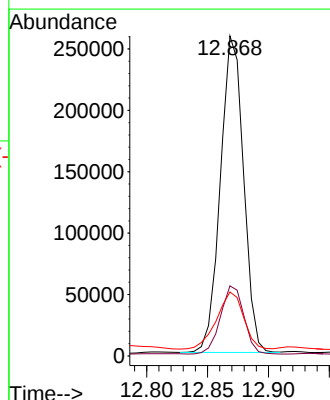
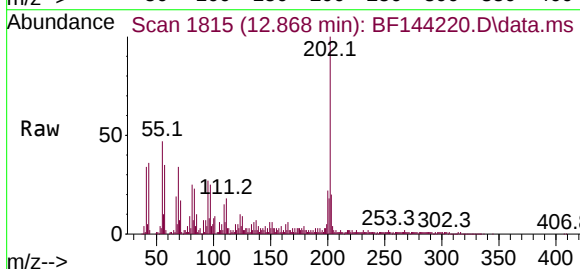
Tgt Ion:202 Resp: 340273

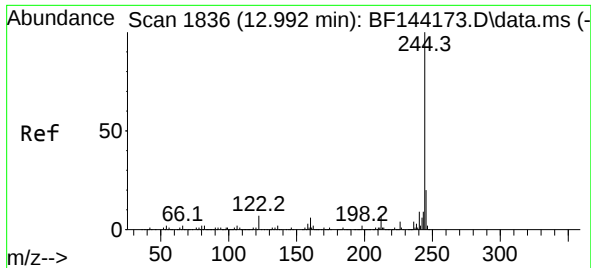
Ion Ratio Lower Upper

202 100

200 21.9 17.2 25.8

203 20.0 13.7 20.5

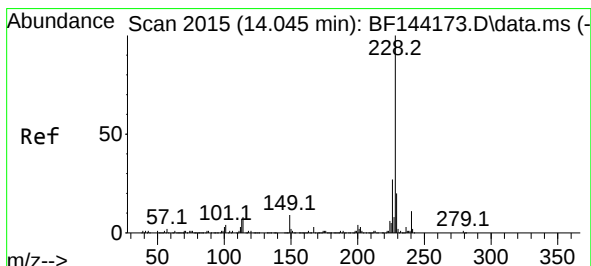
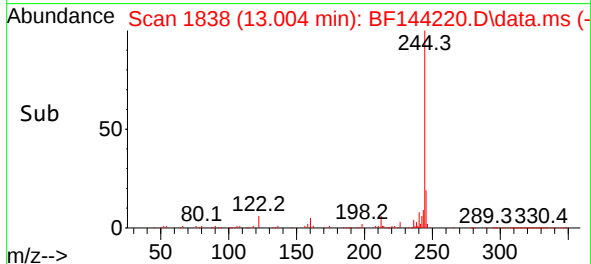
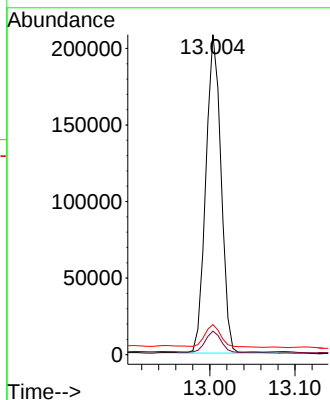
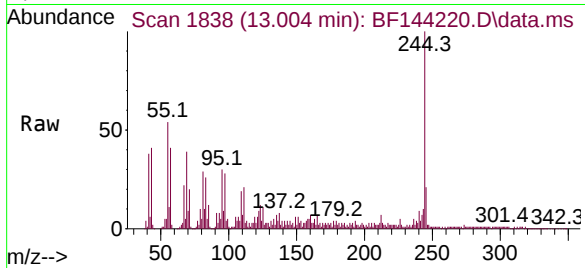




#79
 Terphenyl-d14
 Concen: 25.576 ng
 RT: 13.004 min Scan# 1836
 Delta R.T. 0.011 min
 Lab File: BF144220.D
 Acq: 11 Nov 2025 23:56

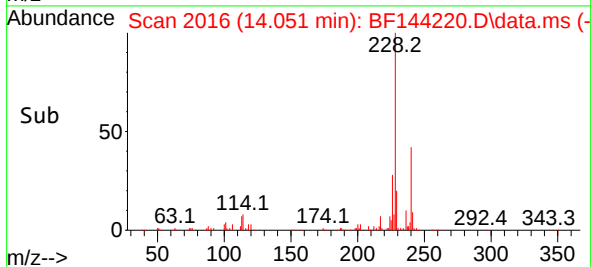
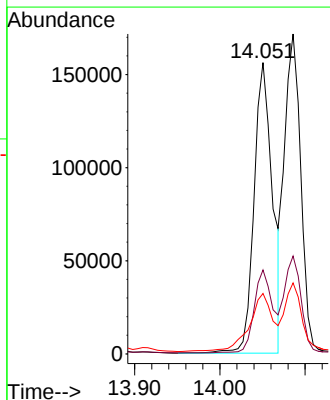
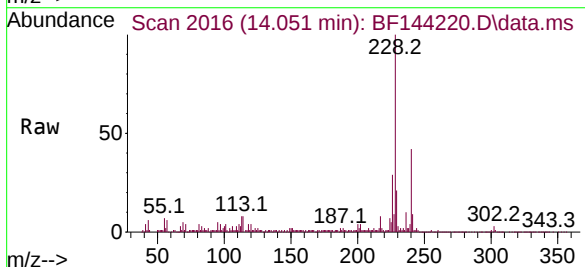
Instrument :
 BNA_F
 ClientSampleId :
 D-LAW-25-0156-0166-COMP

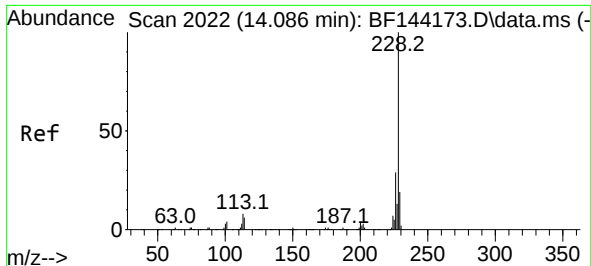
Tgt Ion:244 Resp: 258118
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.3 7.9
 122 9.4 5.6 8.4#



#81
 Benzo(a)anthracene
 Concen: 21.183 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. 0.006 min
 Lab File: BF144220.D
 Acq: 11 Nov 2025 23:56

Tgt Ion:228 Resp: 235344
 Ion Ratio Lower Upper
 228 100
 226 28.8 21.8 32.8
 229 20.7 15.8 23.6

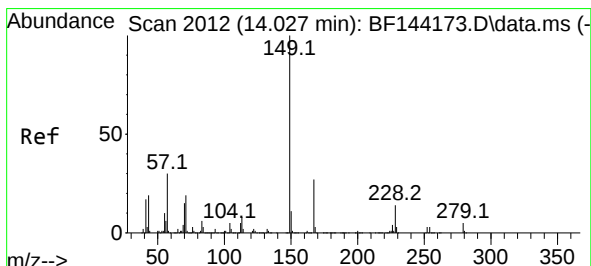
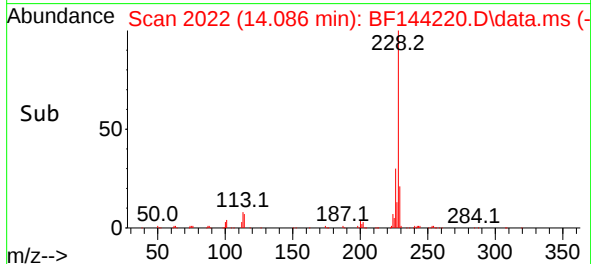
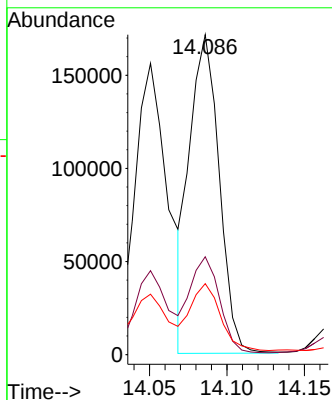
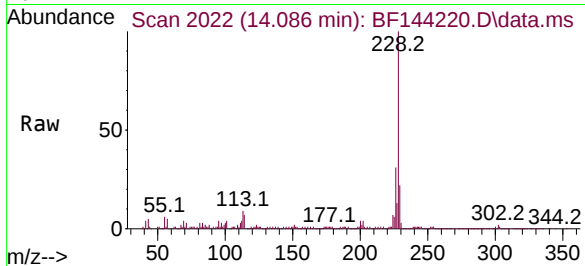




#83
Chrysene
Concen: 22.057 ng
RT: 14.086 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

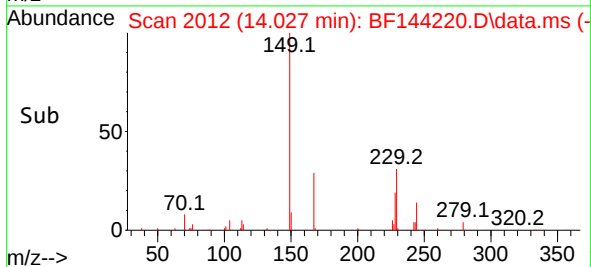
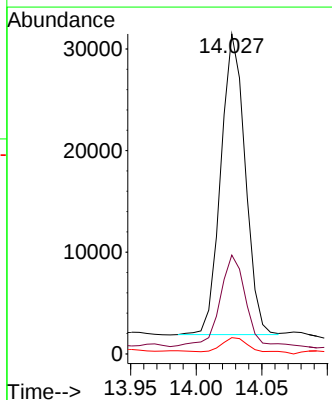
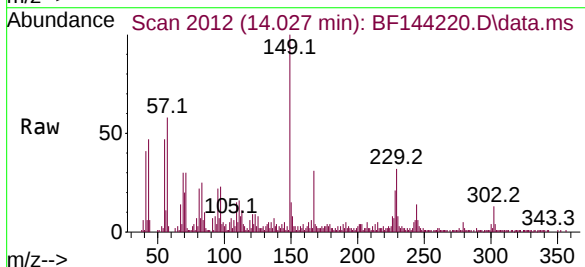
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

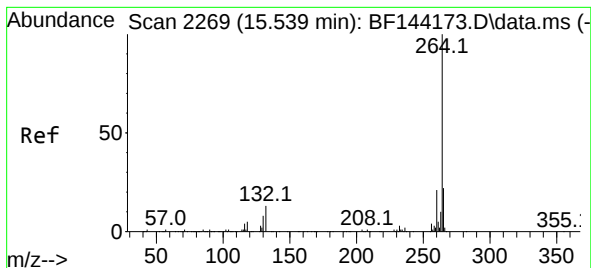
Tgt Ion:228 Resp: 226223
Ion Ratio Lower Upper
228 100
226 30.6 22.9 34.3
229 22.2 15.0 22.6



#84
Bis(2-ethylhexyl)phthalate
Concen: 6.234 ng
RT: 14.027 min Scan# 2012
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:149 Resp: 38230
Ion Ratio Lower Upper
149 100
167 30.9 21.8 32.8
279 5.1 3.7 5.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

D-LAW-25-0156-0166-COMP

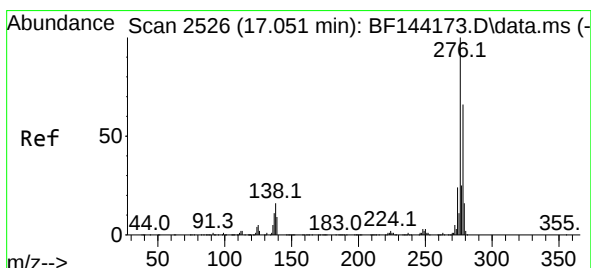
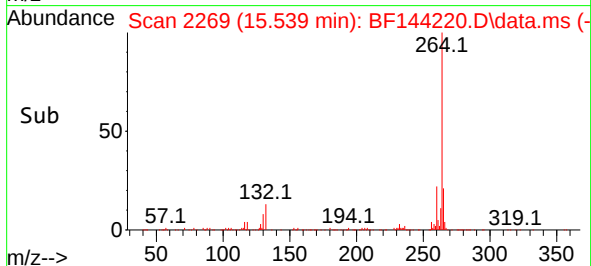
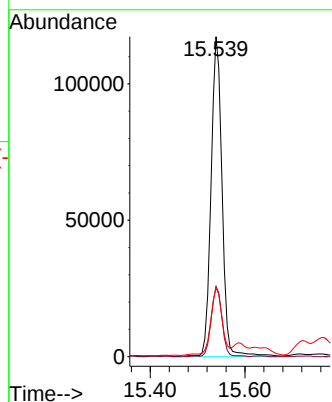
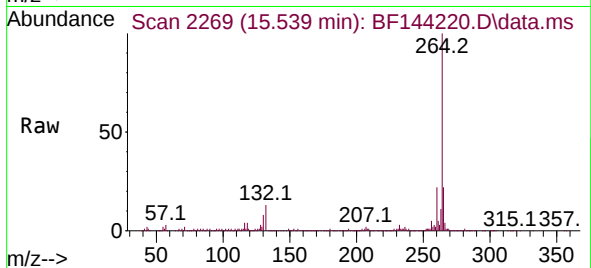
Tgt Ion:264 Resp: 189629

Ion Ratio Lower Upper

264 100

260 21.9 17.1 25.7

265 21.6 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.667 ng

RT: 17.033 min Scan# 2523

Delta R.T. -0.000 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

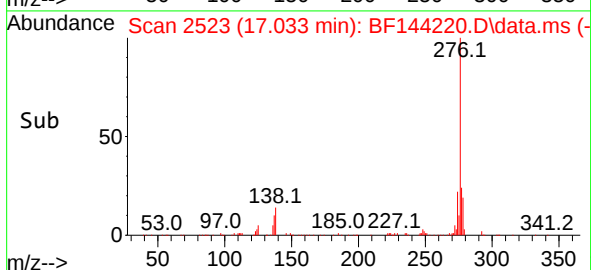
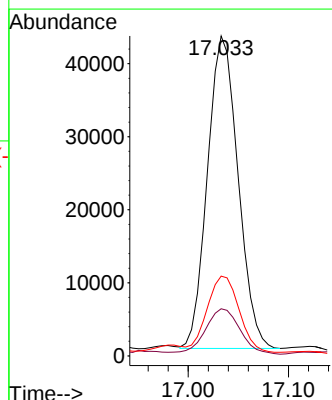
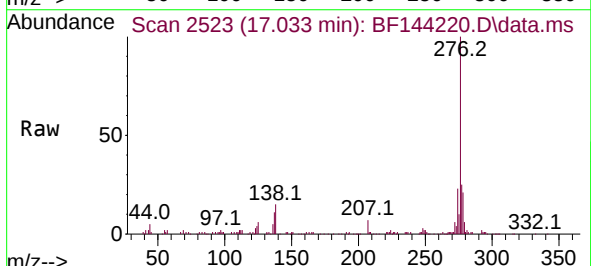
Tgt Ion:276 Resp: 90757

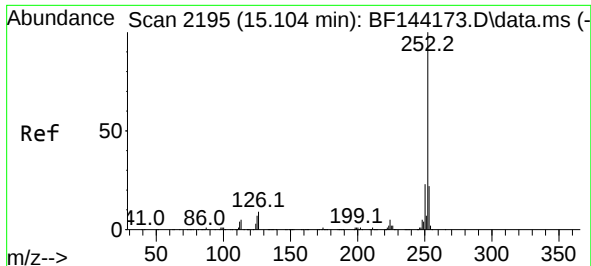
Ion Ratio Lower Upper

276 100

138 16.5 13.9 20.9

277 26.6 19.8 29.6

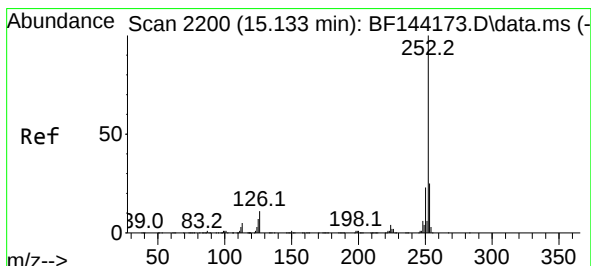
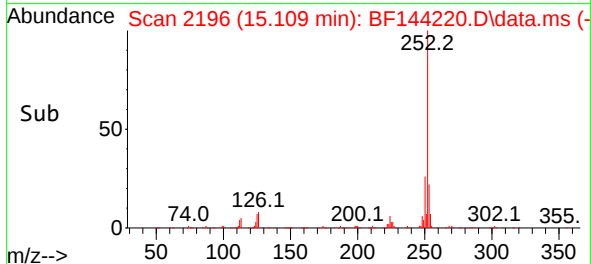
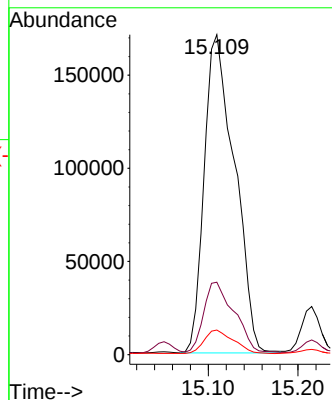
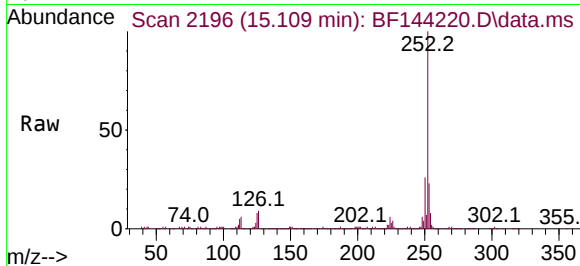




#88
Benzo(b)fluoranthene
Concen: 37.353 ng
RT: 15.109 min Scan# 2195
Delta R.T. 0.011 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

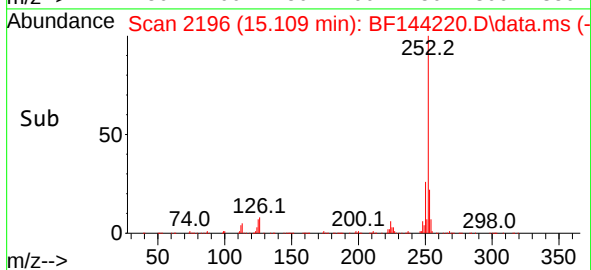
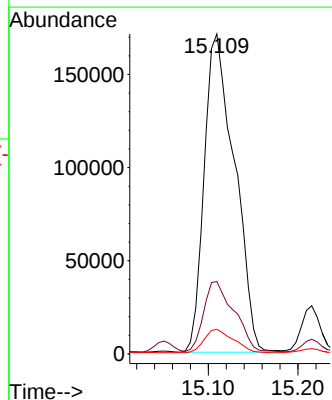
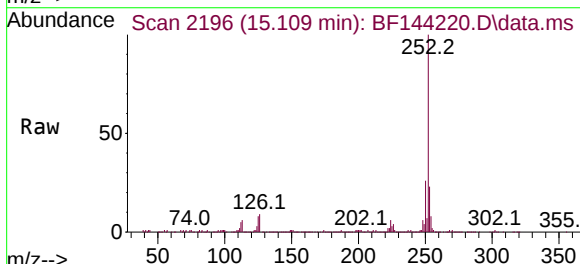
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

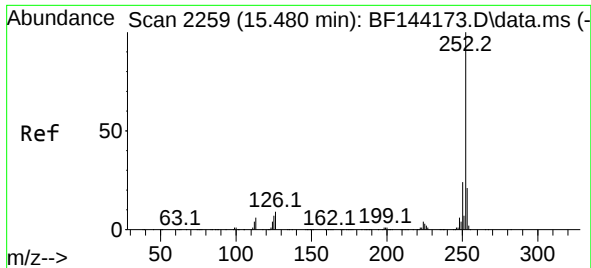
Tgt Ion:252 Resp: 402696
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 7.7 5.3 7.9



#89
Benzo(k)fluoranthene
Concen: 39.907 ng
RT: 15.109 min Scan# 2196
Delta R.T. -0.018 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:252 Resp: 402696
Ion Ratio Lower Upper
252 100
253 22.6 18.0 27.0
125 7.7 5.4 8.2

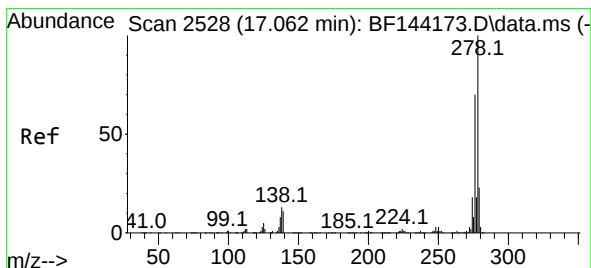
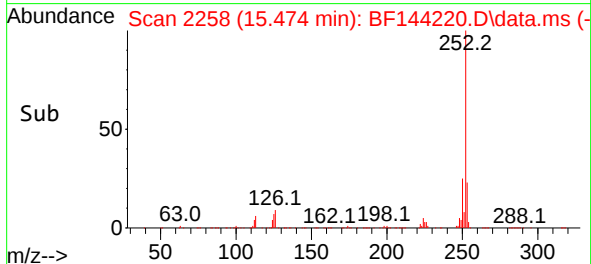
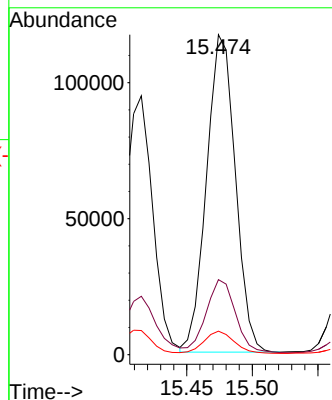
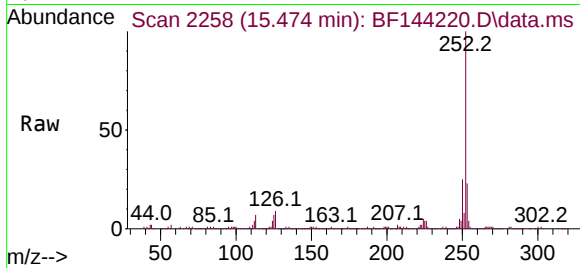




#90
Benzo(a)pyrene
Concen: 17.961 ng
RT: 15.474 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

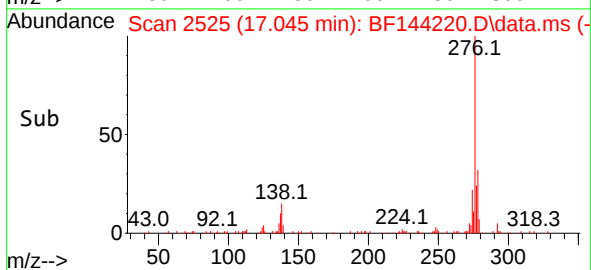
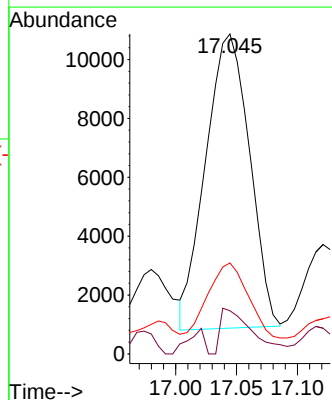
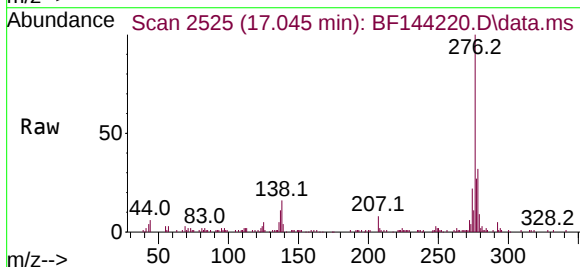
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

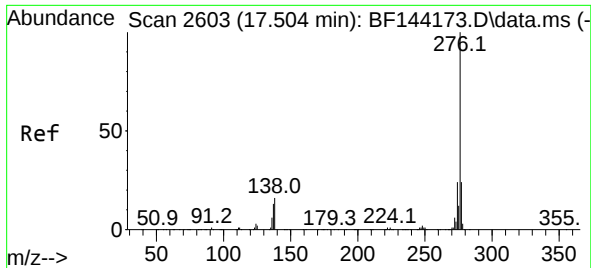
Tgt Ion:252 Resp: 178637
Ion Ratio Lower Upper
252 100
253 23.4 16.7 25.1
125 7.3 5.7 8.5



#91
Dibenzo(a,h)anthracene
Concen: 2.294 ng
RT: 17.045 min Scan# 2525
Delta R.T. -0.006 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:278 Resp: 25078
Ion Ratio Lower Upper
278 100
139 13.5 9.1 13.7
279 28.4 18.2 27.4#





#92
 Benzo(g,h,i)perylene
 Concen: 7.936 ng
 RT: 17.492 min Scan# 2601
 Delta R.T. -0.000 min
 Lab File: BF144220.D
 Acq: 11 Nov 2025 23:56

Instrument :
 BNA_F
 ClientSampleId :
 D-LAW-25-0156-0166-COMP

Tgt Ion:276 Resp: 85670
 Ion Ratio Lower Upper
 276 100
 277 24.2 19.0 28.4
 138 16.6 12.9 19.3

