

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
 Data File : BF143792.D
 Acq On : 23 Sep 2025 10:58
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Sep 24 04:31:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 17:50:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	137641	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	513746	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	252917	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	379147	20.000	ng	0.00
76) Chrysene-d12	14.057	240	398321	20.000	ng	0.00
86) Perylene-d12	15.533	264	555053	20.000	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	

Target Compounds					Qvalue
2) 1,4-Dioxane	2.640	88	20444	5.042	ng 99
3) Pyridine	3.416	79	54556	4.984	ng 97
6) Aniline	6.545	93	78570	5.530	ng 97
8) 2-Chlorophenol	6.663	128	44880	5.175	ng 99
10) Phenol	6.510	94	60619	5.328	ng 98
11) bis(2-Chloroethyl)ether	6.616	93	47743	5.353	ng 97
12) 1,3-Dichlorobenzene	6.828	146	55825	5.544	ng 99
13) 1,4-Dichlorobenzene	6.904	146	56211	5.594	ng 100
14) 1,2-Dichlorobenzene	7.057	146	53628	5.635	ng 97
16) 2,2'-oxybis(1-Chloropr...	7.157	45	114228	5.401	ng 99
17) 2-Methylphenol	7.122	107	35529	5.291	ng 98
18) Hexachloroethane	7.398	117	19083	5.400	ng 97
19) n-Nitroso-di-n-propyla...	7.286	70	34084	5.415	ng 99
22) Acetophenone	7.286	105	64220	5.691	ng 99
24) Nitrobenzene	7.457	77	46458	4.994	ng 98
25) Isophorone	7.698	82	85608	5.234	ng 99
26) 2-Nitrophenol	7.781	139	11396	5.528	ng 97
27) 2,4-Dimethylphenol	7.810	122	37440	5.122	ng 100
28) bis(2-Chloroethoxy)met...	7.910	93	58456	5.501	ng 98
29) 2,4-Dichlorophenol	8.016	162	35586	4.947	ng 98
30) 1,2,4-Trichlorobenzene	8.110	180	40333	5.403	ng 99
31) Naphthalene	8.186	128	135838	5.523	ng 100
33) 4-Chloroaniline	8.233	127	46191	5.345	ng 98
34) Hexachlorobutadiene	8.310	225	29187	5.245	ng 99
36) 4-Chloro-3-methylphenol	8.704	107	34756	5.152	ng 95
37) 2-Methylnaphthalene	8.880	142	88002	5.612	ng 100
38) 1-Methylnaphthalene	8.980	142	84197	5.609	ng 98
40) 1,2,4,5-Tetrachloroben...	9.045	216	41527	5.441	ng 99
43) 2,4,6-Trichlorophenol	9.151	196	21768	4.555	ng 97
44) 2,4,5-Trichlorophenol	9.186	196	23454	4.692	ng 96
46) 1,1'-Biphenyl	9.345	154	101651	5.552	ng 100
47) 2-Chloronaphthalene	9.369	162	81117	5.504	ng 99
48) 2-Nitroaniline	9.457	65	15262	3.427	ng 93
49) Acenaphthylene	9.786	152	109327	5.389	ng 99
50) Dimethylphthalate	9.633	163	80614	5.229	ng 99
51) 2,6-Dinitrotoluene	9.698	165	8744	3.452	ng 95

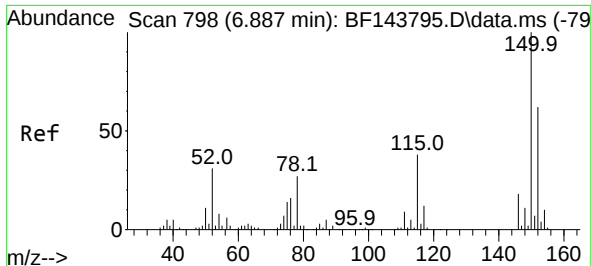
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
 Data File : BF143792.D
 Acq On : 23 Sep 2025 10:58
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 Sample : SSTDICC005
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Quant Time: Sep 24 04:31:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 17:50:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Acenaphthene	9.957	154	71713	5.372	ng	97
53) 3-Nitroaniline	9.869	138	10825	3.526	ng #	89
55) Dibenzofuran	10.127	168	104283	5.524	ng	99
57) 2,4-Dinitrotoluene	10.098	165	9518	5.298	ng #	84
58) Fluorene	10.469	166	80629	5.745	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	17203	4.017	ng #	98
60) Diethylphthalate	10.339	149	73247	5.076	ng	99
61) 4-Chlorophenyl-phenyle...	10.463	204	39239	5.487	ng	98
62) 4-Nitroaniline	10.474	138	10259	3.554	ng	96
63) Azobenzene	10.621	77	79697	5.240	ng	98
66) n-Nitrosodiphenylamine	10.580	169	67054	5.378	ng	99
67) 4-Bromophenyl-phenylether	10.957	248	32607	5.047	ng	97
68) Hexachlorobenzene	11.021	284	46642	5.238	ng	100
69) Atrazine	11.104	200	16909	4.683	ng	96
71) Phenanthrene	11.433	178	108554	5.577	ng	98
72) Anthracene	11.486	178	103911	5.322	ng	99
73) Carbazole	11.639	167	86827	5.086	ng	100
74) Di-n-butylphthalate	11.974	149	89101	4.538	ng	100
75) Fluoranthene	12.627	202	96550	4.932	ng	99
78) Pyrene	12.857	202	103385	5.279	ng	99
80) Butylbenzylphthalate	13.474	149	25033	3.695	ng	97
81) Benzo(a)anthracene	14.045	228	110473	5.163	ng	99
83) Chrysene	14.080	228	103643	5.353	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	42651	4.295	ng	98
87) Indeno(1,2,3-cd)pyrene	17.021	276	205787	4.886	ng	98
88) Benzo(b)fluoranthene	15.098	252	137015	4.847	ng	99
89) Benzo(k)fluoranthene	15.127	252	147201	5.184	ng	99
90) Benzo(a)pyrene	15.468	252	128819	4.848	ng	98
91) Dibenzo(a,h)anthracene	17.039	278	167469	4.862	ng	99
92) Benzo(g,h,i)perylene	17.468	276	157425	4.741	ng	99

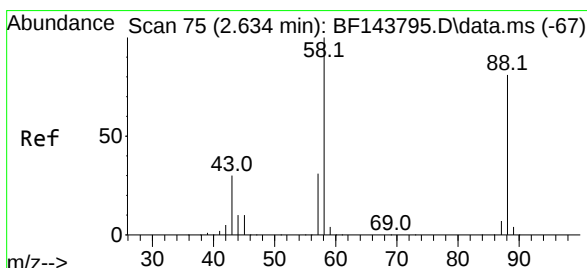
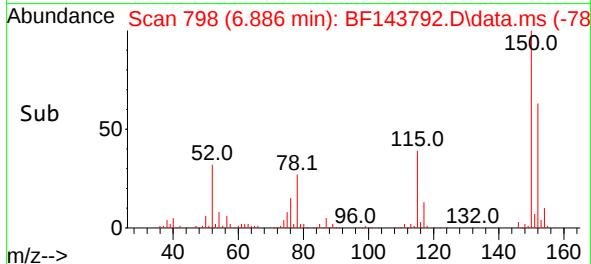
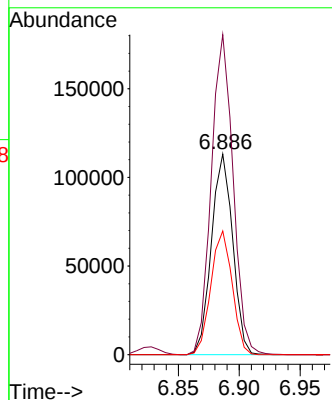
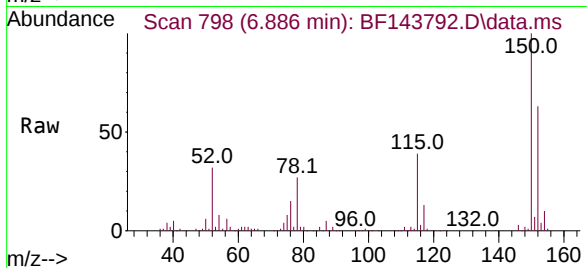
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.886 min Scan# 79
 Delta R.T. -0.001 min
 Lab File: BF143792.D
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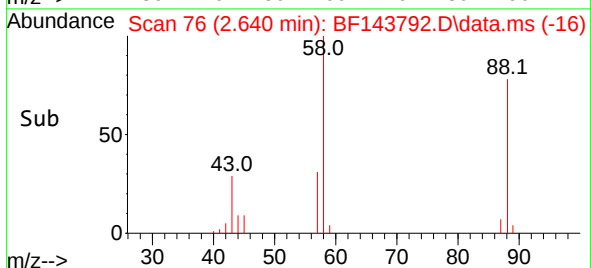
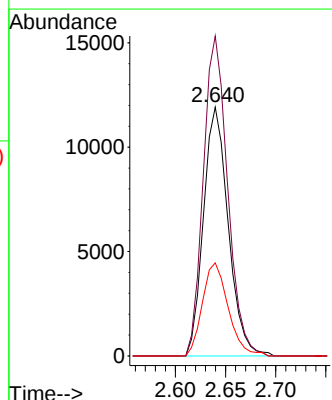
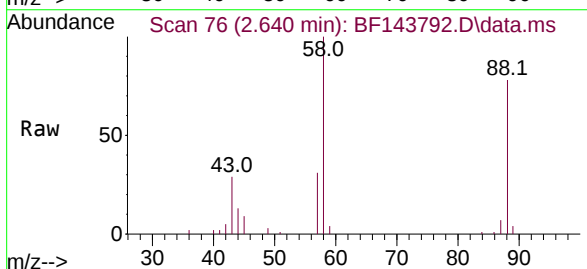
Instrument :
 BNA_F
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 SSTDICC005

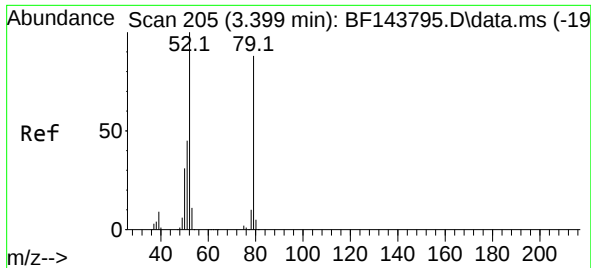
Tgt Ion:152 Resp: 137641
 Ion Ratio Lower Upper
 152 100
 150 159.5 129.6 194.4
 115 61.6 49.0 73.4



#2
 1,4-Dioxane
 Concen: 5.042 ng
 RT: 2.640 min Scan# 76
 Delta R.T. 0.006 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

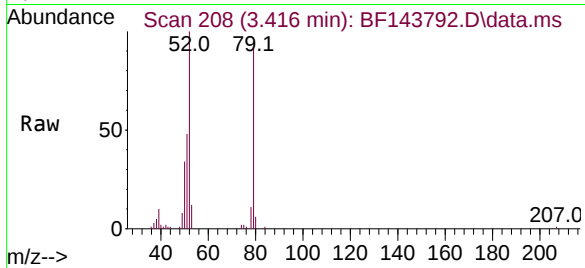
Tgt Ion: 88 Resp: 20444
 Ion Ratio Lower Upper
 88 100
 58 126.0 99.4 149.2
 43 38.9 30.6 45.8



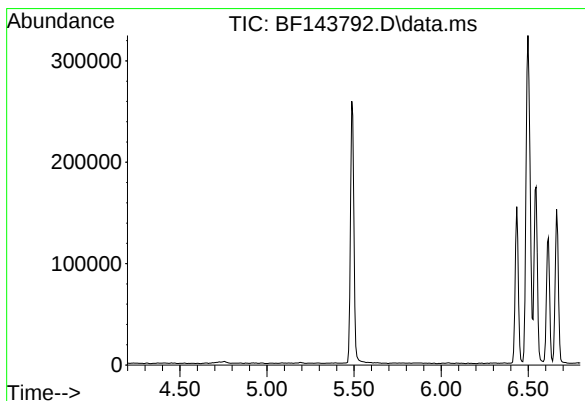
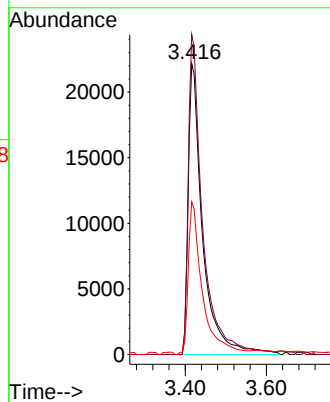
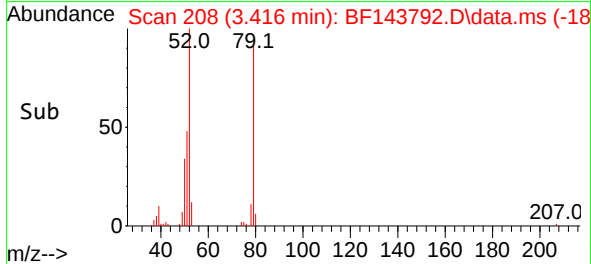


#3
 Pyridine
 Concen: 4.984 ng
 RT: 3.416 min Scan# 20
 Delta R.T. 0.018 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005



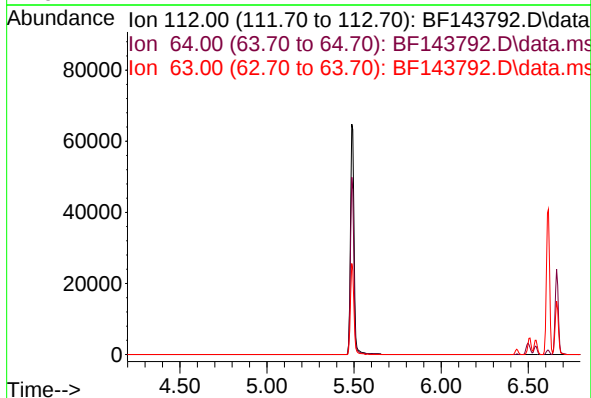
Tgt Ion: 79 Resp: 54556
 Ion Ratio Lower Upper
 79 100
 52 110.0 90.5 135.7
 51 52.5 40.6 61.0

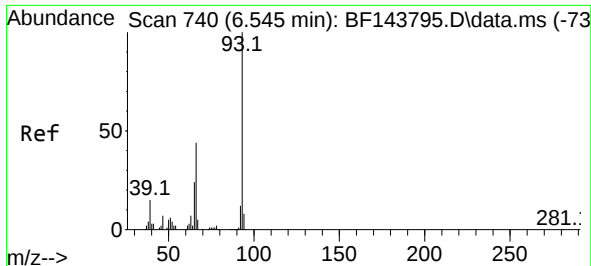


#5
 2-Fluorophenol
 Concen: 0.000 ng
 Expected RT: 5.50 min

Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Tgt Ion: 112
 Sig Exp Ratio
 112 100
 64 78.7
 63 40.8

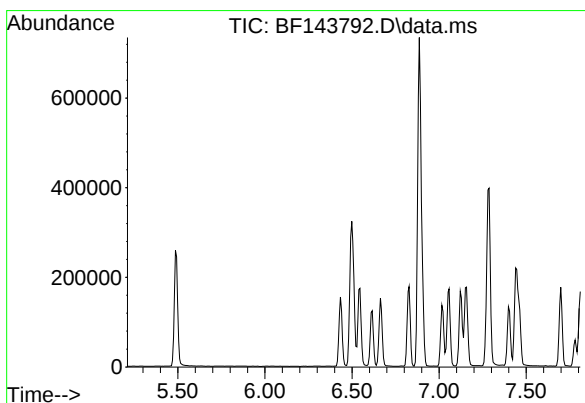
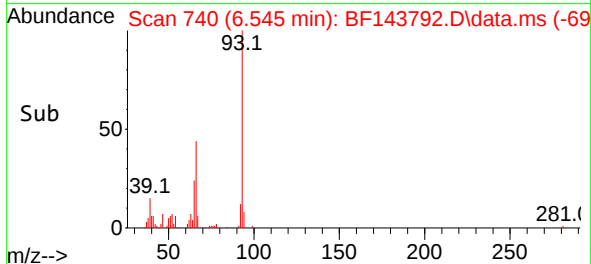
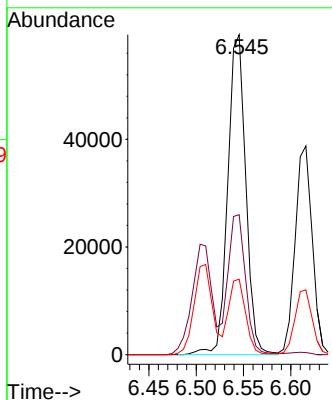
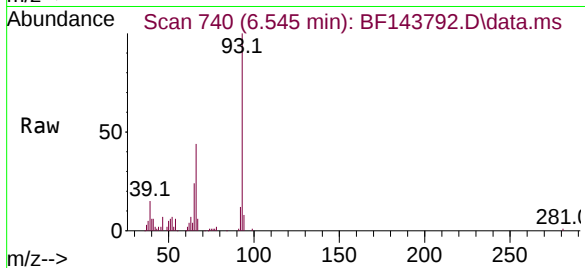




#6
 Aniline
 Concen: 5.530 ng
 RT: 6.545 min Scan# 74
 Delta R.T. -0.006 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

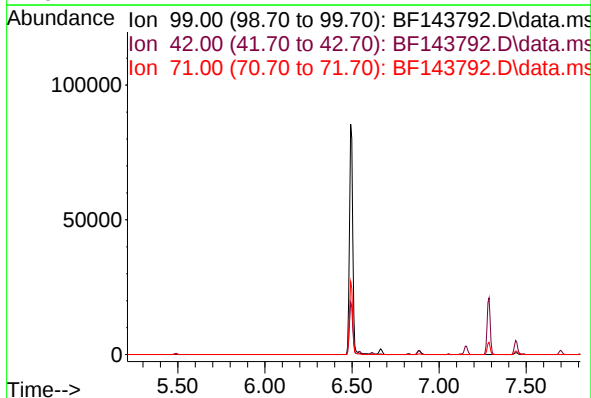
Tgt Ion: 93 Resp: 78570
 Ion Ratio Lower Upper
 93 100
 66 43.7 37.1 55.7
 65 23.6 19.4 29.0

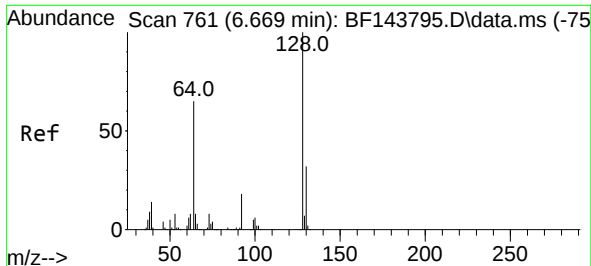


#7
 Phenol-d6
 Concen: 0.000 ng
 Expected RT: 6.51 min

Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Tgt Ion: 99
 Sig Exp Ratio
 99 100
 42 23.3
 71 33.7

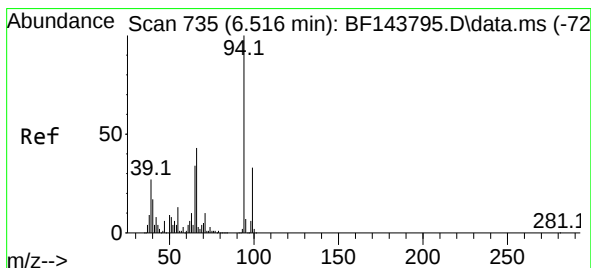
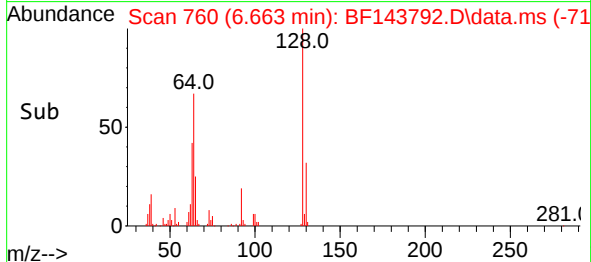
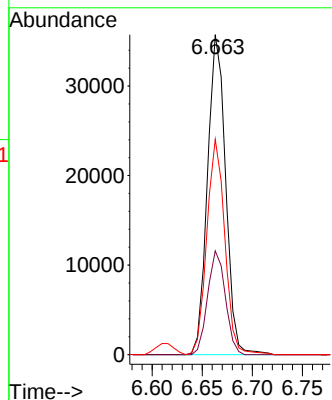
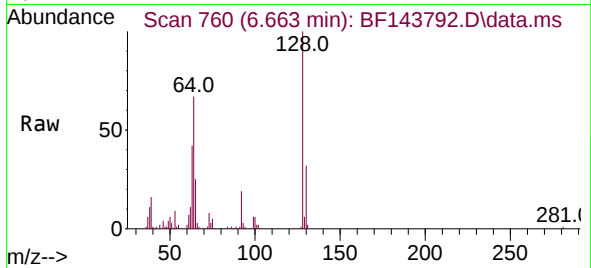




#8
2-Chlorophenol
Concen: 5.175 ng
RT: 6.663 min Scan# 761
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

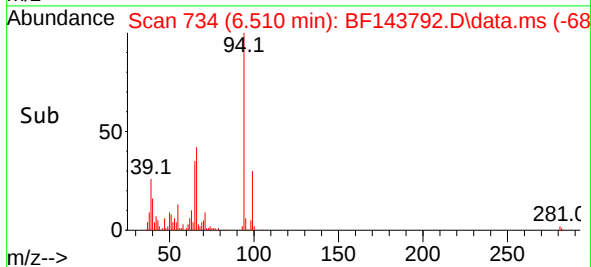
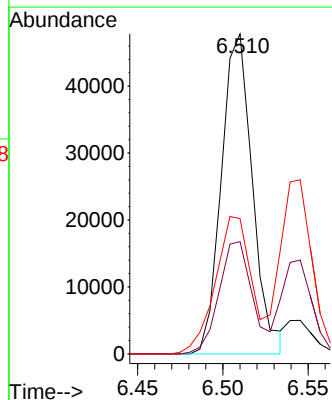
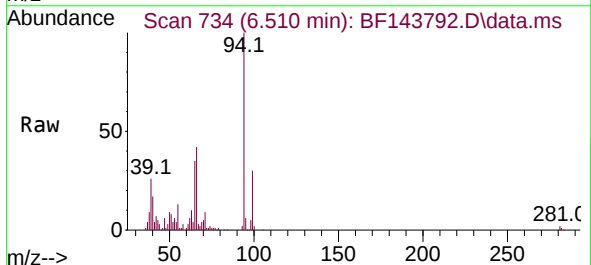
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BNA_F
ClientSampleId :
SSTDICC005

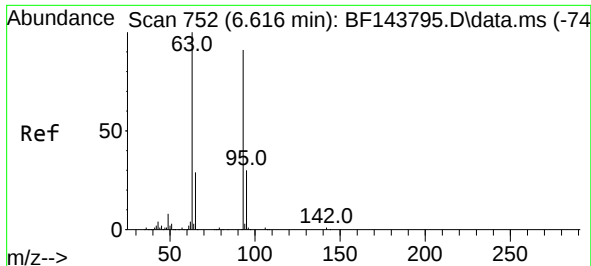
Tgt Ion:128 Resp: 44880
Ion Ratio Lower Upper
128 100
130 32.4 12.2 52.2
64 67.3 46.5 86.5



#10
Phenol
Concen: 5.328 ng
RT: 6.510 min Scan# 734
Delta R.T. -0.018 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 94 Resp: 60619
Ion Ratio Lower Upper
94 100
65 35.1 14.2 54.2
66 42.3 24.1 64.1

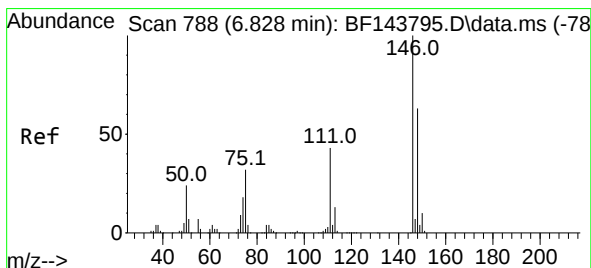
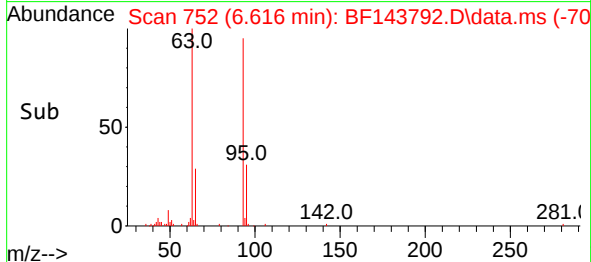
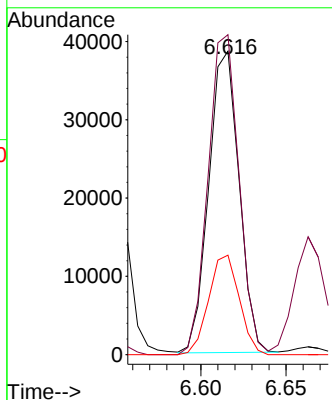
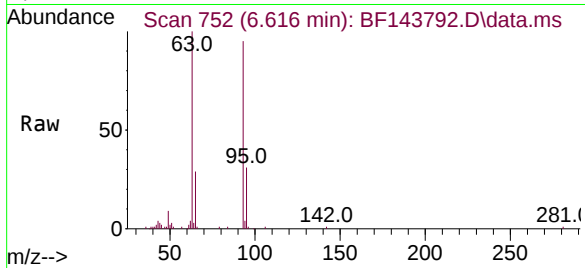




#11
bis(2-Chloroethyl)ether
Concen: 5.353 ng
RT: 6.616 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

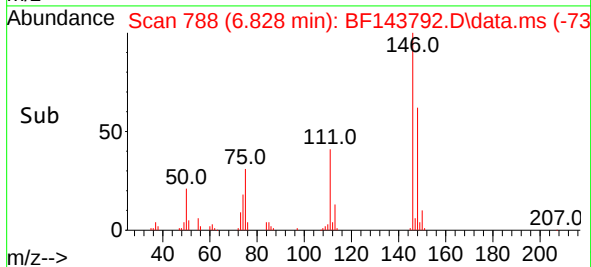
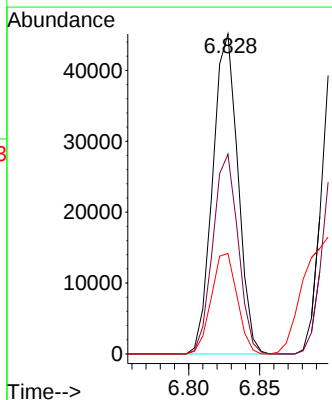
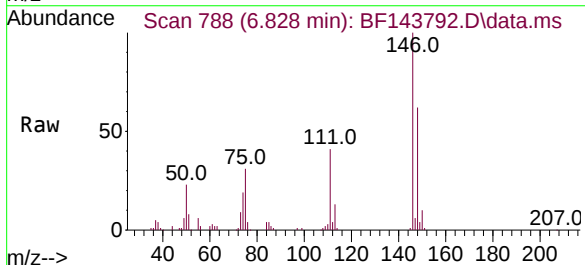
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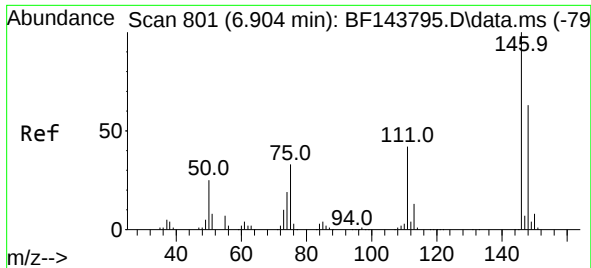
Tgt Ion: 93 Resp: 47743
Ion Ratio Lower Upper
93 100
63 105.4 89.2 129.2
95 32.8 12.9 52.9



#12
1,3-Dichlorobenzene
Concen: 5.544 ng
RT: 6.828 min Scan# 788
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:146 Resp: 55825
Ion Ratio Lower Upper
146 100
148 62.4 50.4 75.6
75 31.4 25.6 38.4

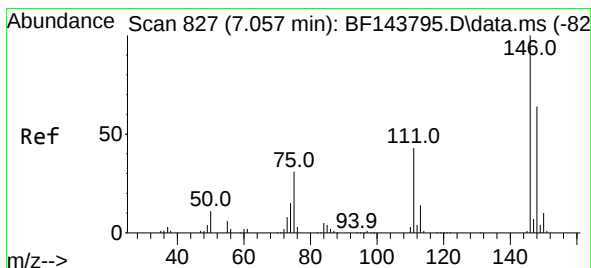
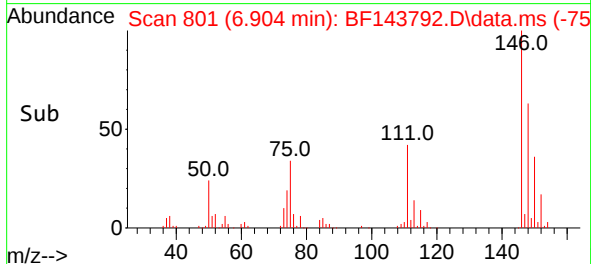
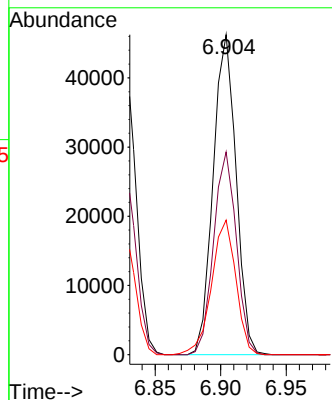
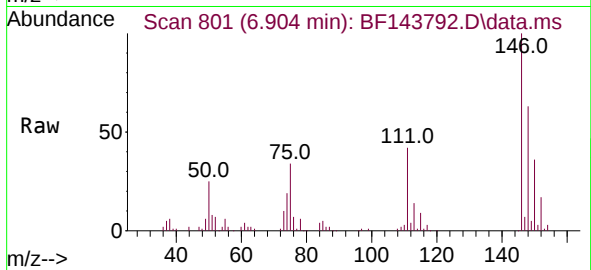




#13
1,4-Dichlorobenzene
Concen: 5.594 ng
RT: 6.904 min Scan# 801
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

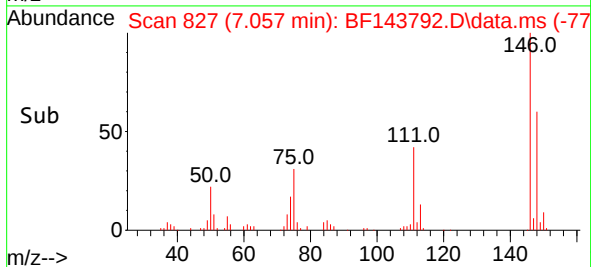
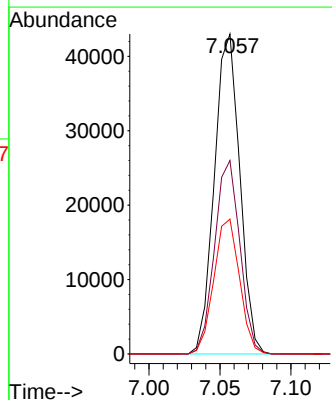
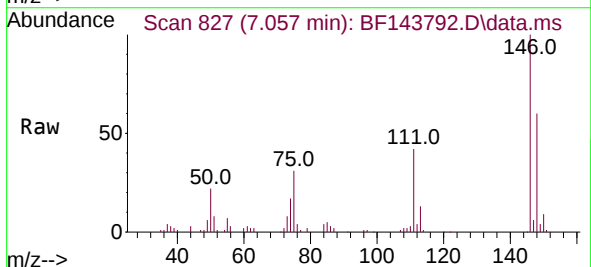
Instrument :
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ClientSampleId :
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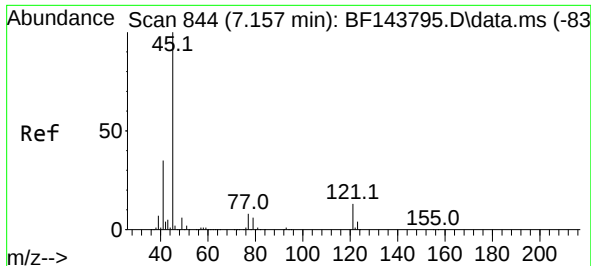
Tgt Ion:146 Resp: 56211
Ion Ratio Lower Upper
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148 63.3 50.7 76.1
111 42.0 33.4 50.2



#14
1,2-Dichlorobenzene
Concen: 5.635 ng
RT: 7.057 min Scan# 827
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:146 Resp: 53628
Ion Ratio Lower Upper
146 100
148 60.4 51.1 76.7
111 42.1 34.3 51.5

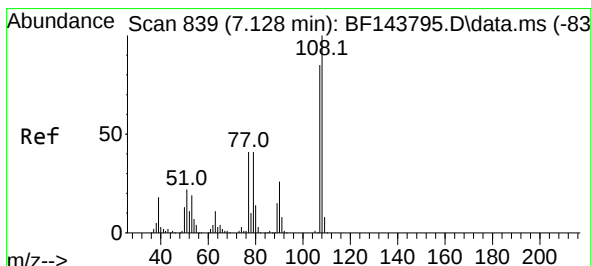
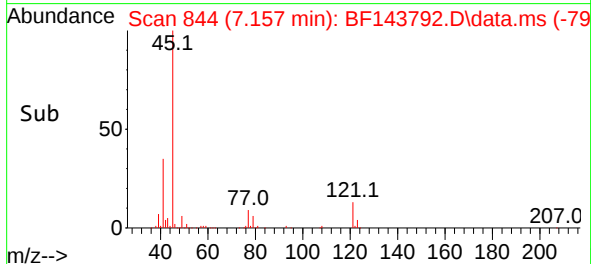
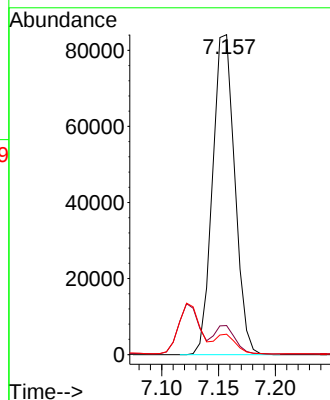
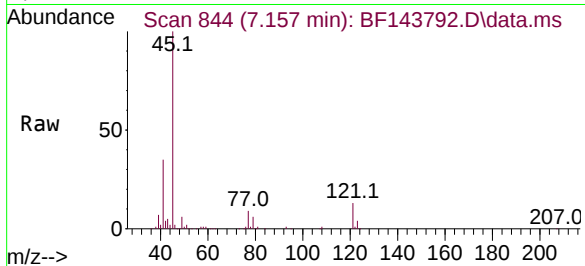




#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.401 ng
RT: 7.157 min Scan# 844
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

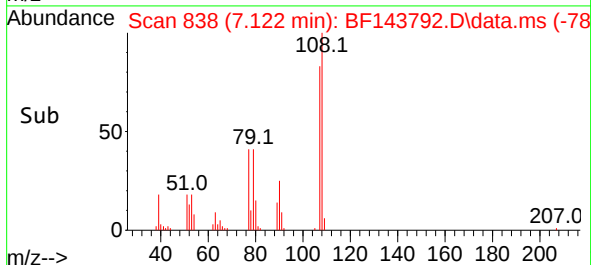
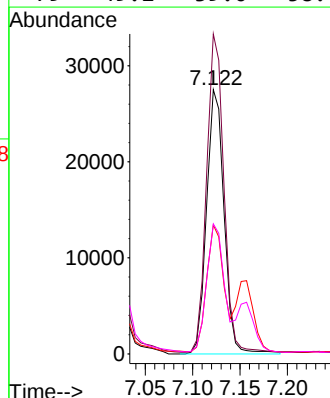
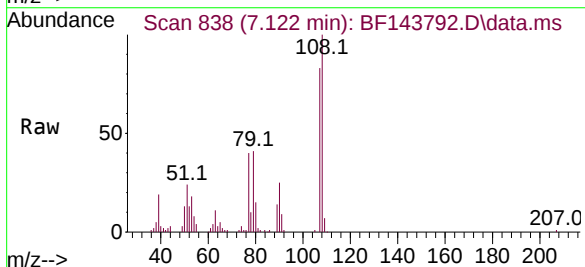
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

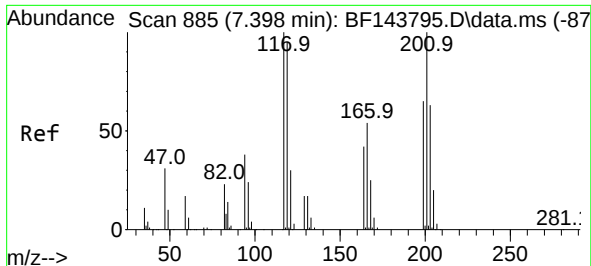
Tgt Ion:	45	Resp:	114228
Ion Ratio	Lower	Upper	
45	100		
77	9.1	0.0	28.5
79	6.4	0.0	26.3



#17
2-Methylphenol
Concen: 5.291 ng
RT: 7.122 min Scan# 838
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:	107	Resp:	35529
Ion Ratio	Lower	Upper	
107	100		
108	121.1	94.2	141.4
77	48.8	38.6	58.0
79	49.2	39.0	58.4

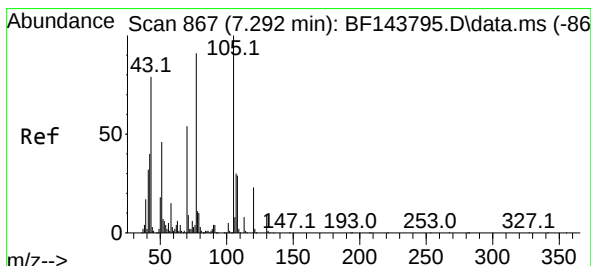
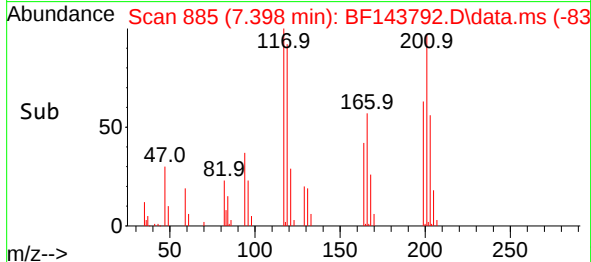
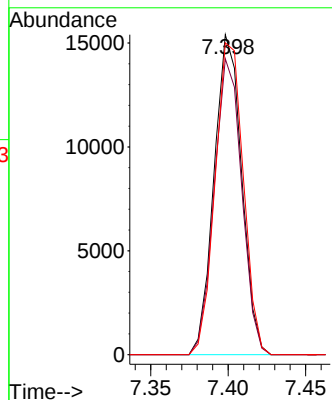
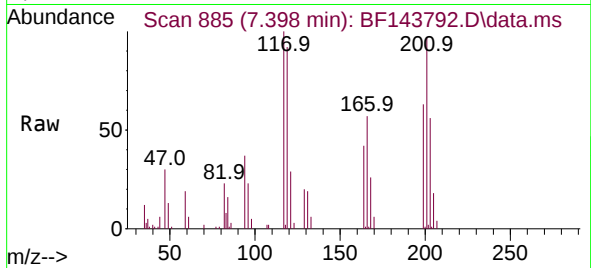




#18
Hexachloroethane
Concen: 5.400 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

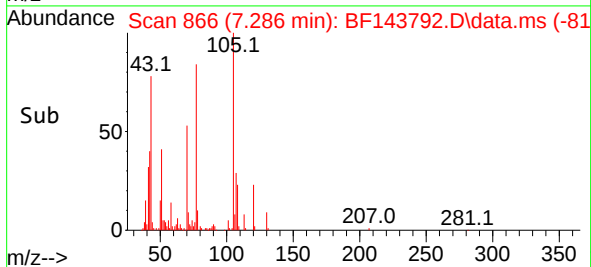
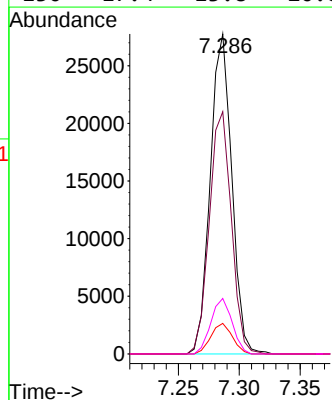
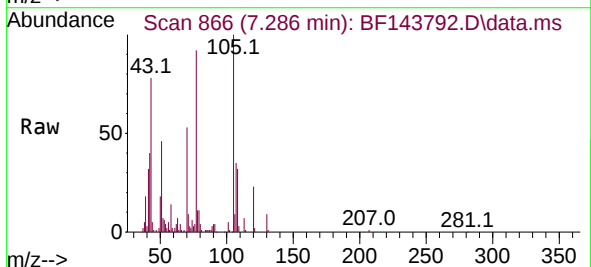
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

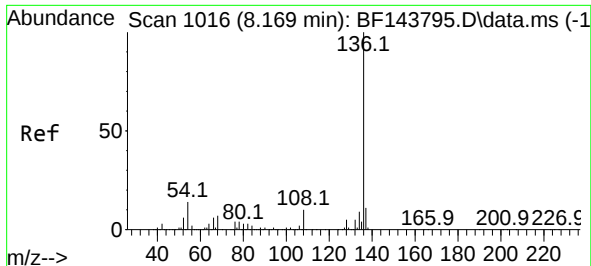
Tgt Ion:117 Resp: 19083
Ion Ratio Lower Upper
117 100
119 92.4 76.2 114.2
201 97.4 79.7 119.5



#19
n-Nitroso-di-n-propylamine
Concen: 5.415 ng
RT: 7.286 min Scan# 866
Delta R.T. -0.018 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 70 Resp: 34084
Ion Ratio Lower Upper
70 100
42 75.7 59.4 89.0
101 9.5 7.1 10.7
130 17.4 13.8 20.8

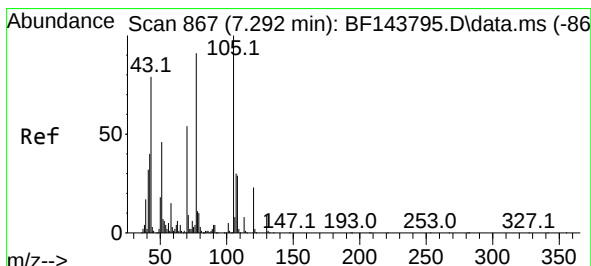
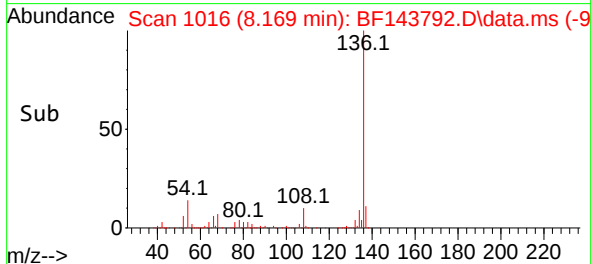
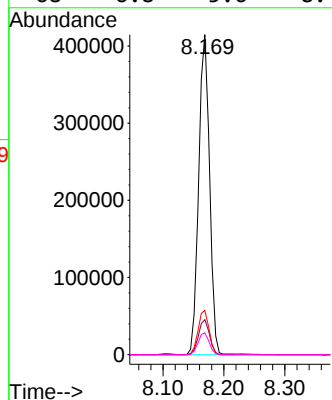
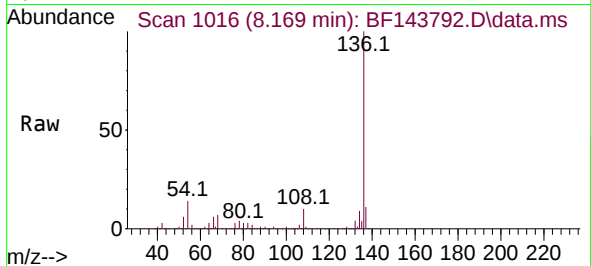




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

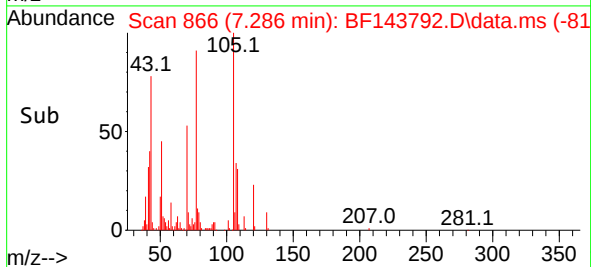
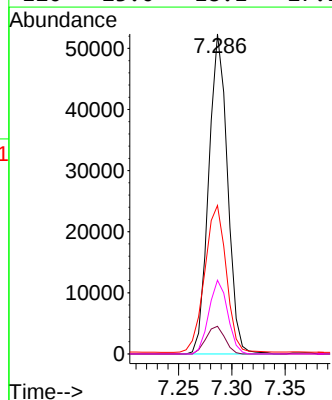
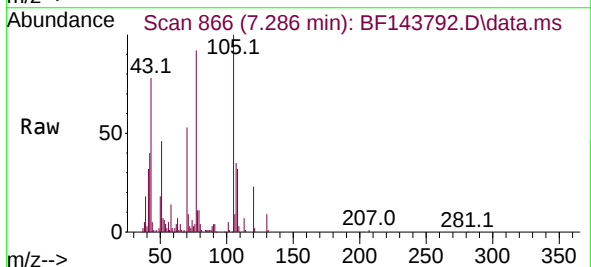
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

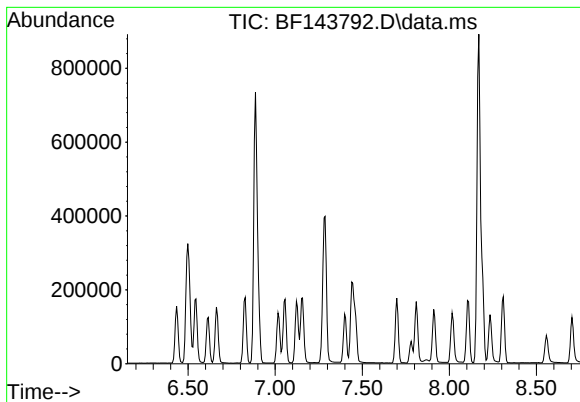
Tgt Ion:136	Resp:	513746	
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	13.8	11.2	16.8
68	6.8	5.6	8.4



#22
Acetophenone
Concen: 5.691 ng
RT: 7.286 min Scan# 866
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt	Ion:105	Resp:	64220
Ion	Ratio	Lower	Upper
105	100		
71	8.6	7.0	10.4
51	46.4	36.6	55.0
120	23.0	18.1	27.1



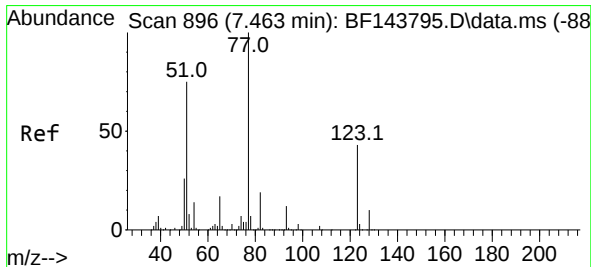
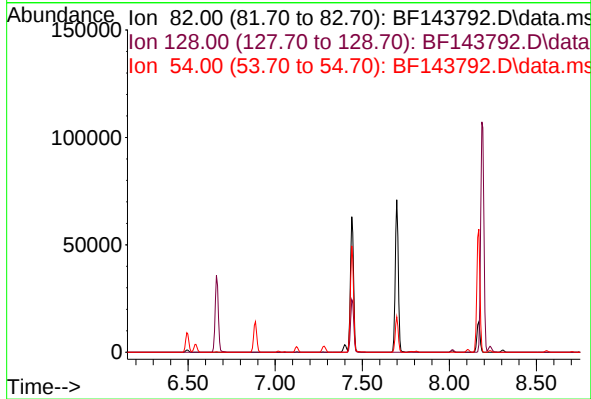


#23
 Nitrobenzene-d5
 Concen: 0.000 ng
 Expected RT: 7.45 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Tgt Ion: 82

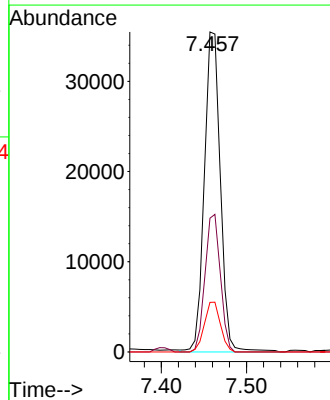
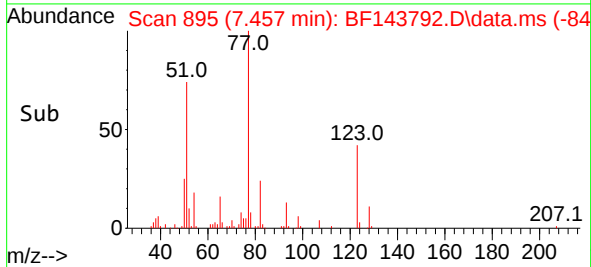
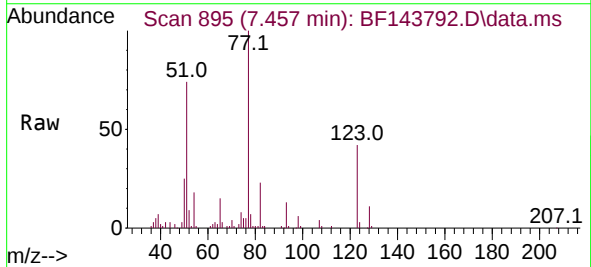
Sig	Exp Ratio
82	100
128	41.6
54	80.3

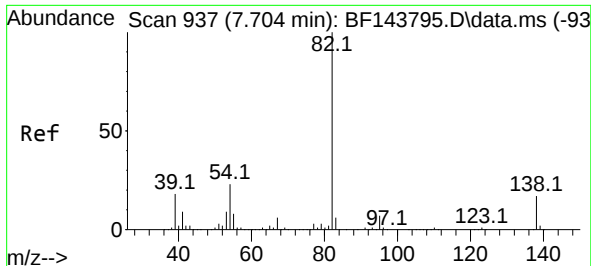


#24
 Nitrobenzene
 Concen: 4.994 ng
 RT: 7.457 min Scan# 895
 Delta R.T. -0.018 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Tgt Ion: 77 Resp: 46458

Ion	Ratio	Lower	Upper
77	100		
123	41.8	34.0	51.0
65	15.5	13.5	20.3

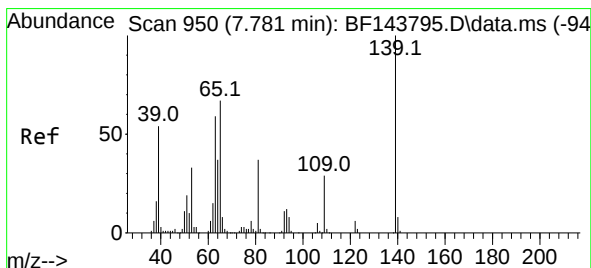
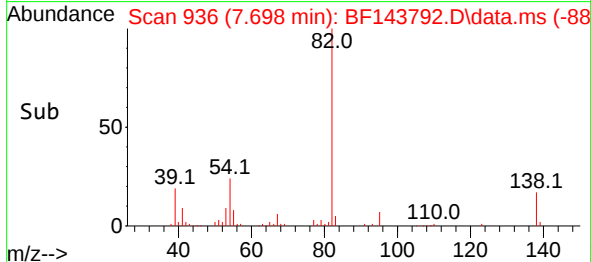
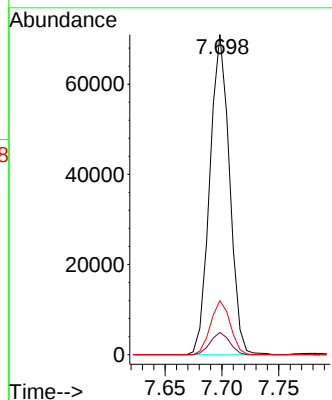
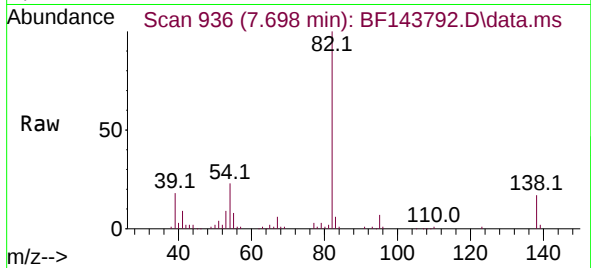




#25
Isophorone
Concen: 5.234 ng
RT: 7.698 min Scan# 91
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

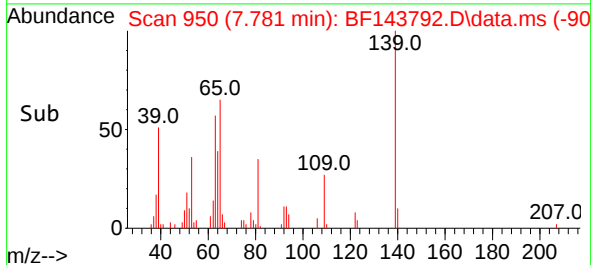
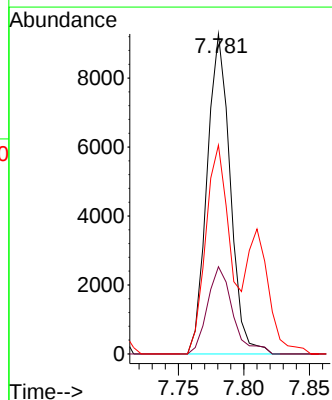
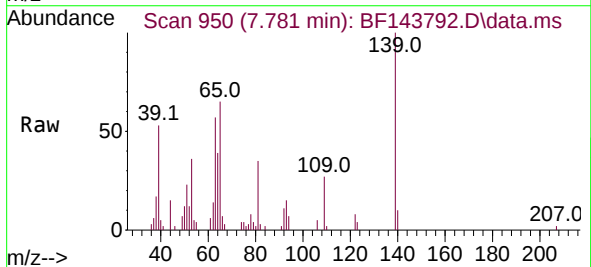
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

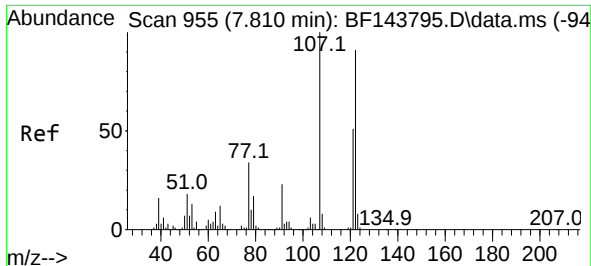
Tgt Ion: 82 Resp: 85608
Ion Ratio Lower Upper
82 100
95 6.9 5.4 8.2
138 16.8 13.7 20.5



#26
2-Nitrophenol
Concen: 5.528 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:139 Resp: 11396
Ion Ratio Lower Upper
139 100
109 27.2 23.3 34.9
65 65.2 53.8 80.6





#27

2,4-Dimethylphenol

Concen: 5.122 ng

RT: 7.810 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF143792.D

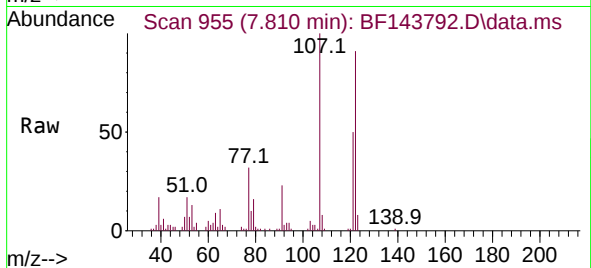
Acq: 23 Sep 2025 10:58

Instrument :

BNA_F

ClientSampleId :

SSTDICC005



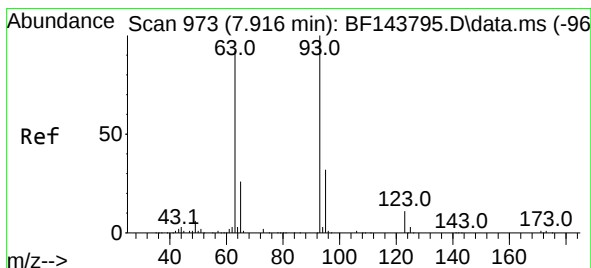
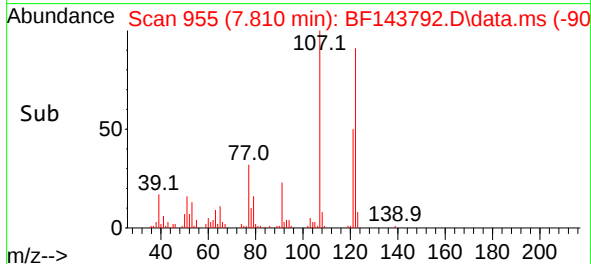
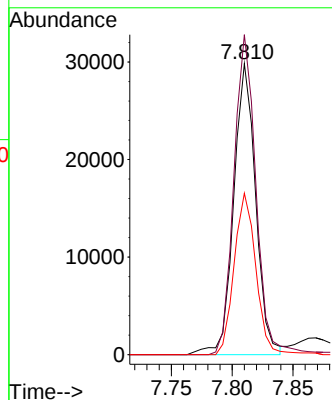
Tgt Ion:122 Resp: 37440

Ion Ratio Lower Upper

122 100

107 110.0 87.5 131.3

121 55.5 44.2 66.4



#28

bis(2-Chloroethoxy)methane

Concen: 5.501 ng

RT: 7.910 min Scan# 972

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

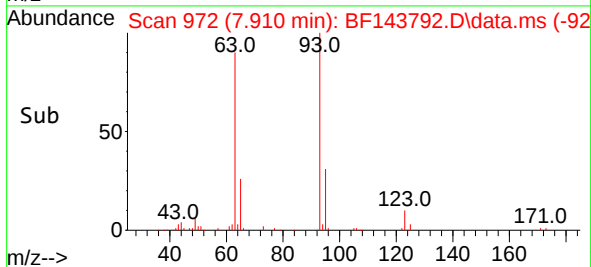
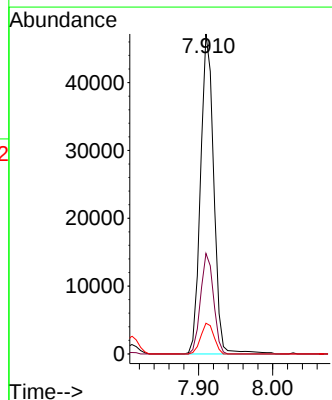
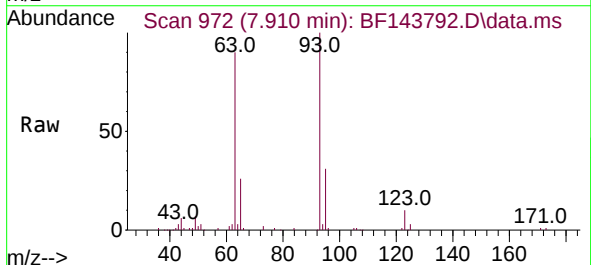
Tgt Ion: 93 Resp: 58456

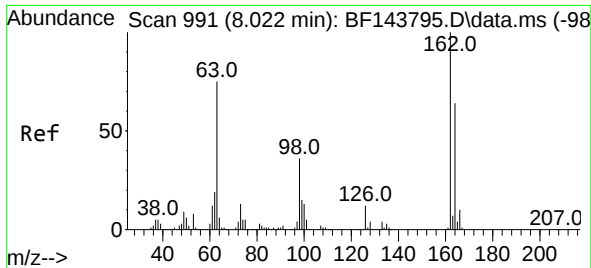
Ion Ratio Lower Upper

93 100

95 31.4 25.8 38.8

123 9.6 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 4.947 ng

RT: 8.016 min Scan# 991

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

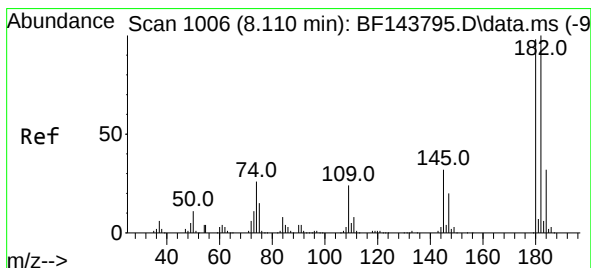
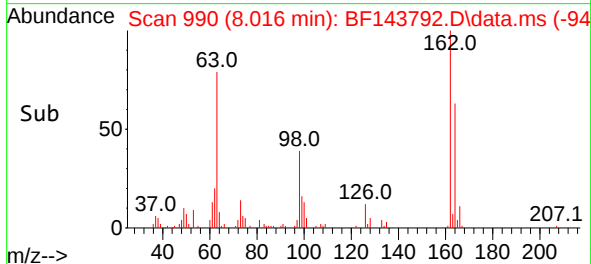
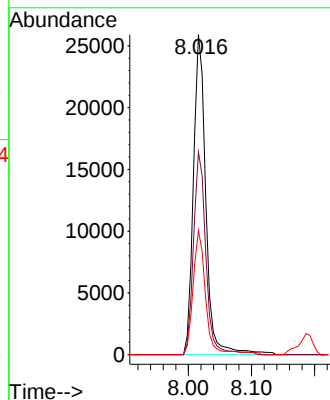
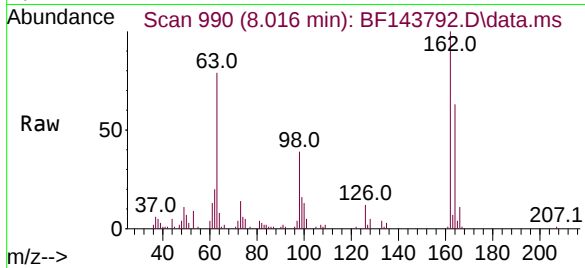
Instrument :

BNA_F

ClientSampleId :

SSTDIC005

Tgt Ion:162	Resp:	35586
Ion Ratio	Lower	Upper
162	100	
164	63.3	44.1 84.1
98	38.7	15.8 55.8



#30

1,2,4-Trichlorobenzene

Concen: 5.403 ng

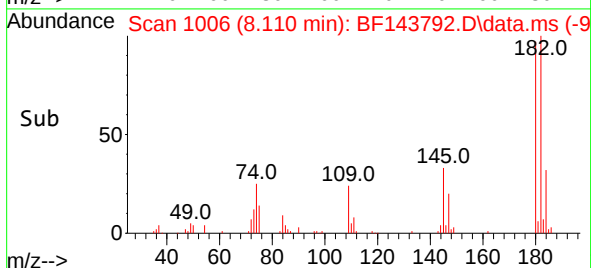
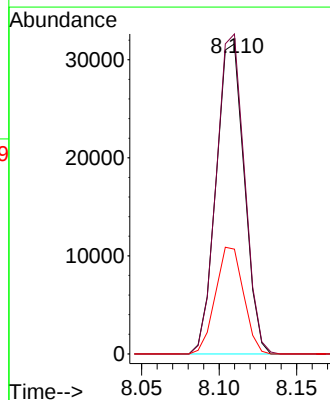
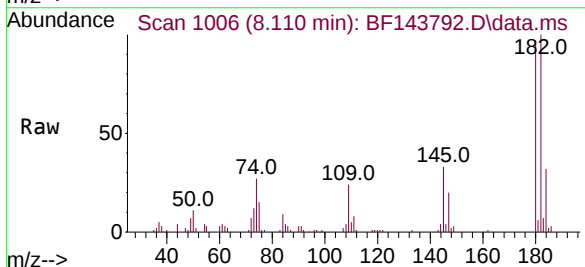
RT: 8.110 min Scan# 1006

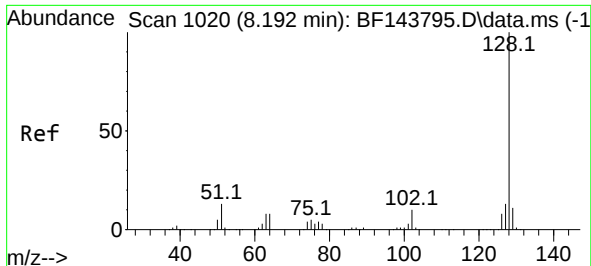
Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion:180	Resp:	40333
Ion Ratio	Lower	Upper
180	100	
182	103.2	82.0 123.0
145	33.8	25.9 38.9

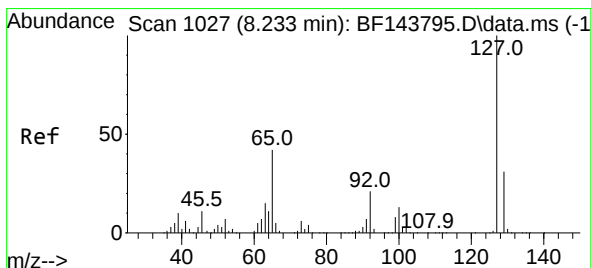
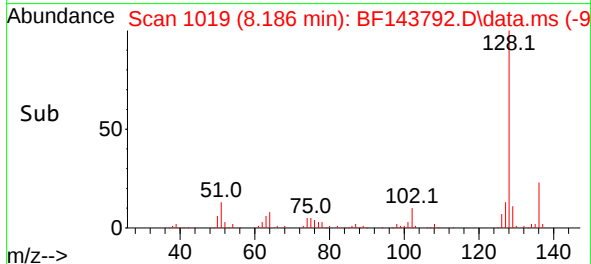
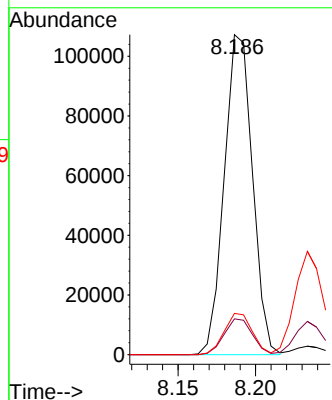
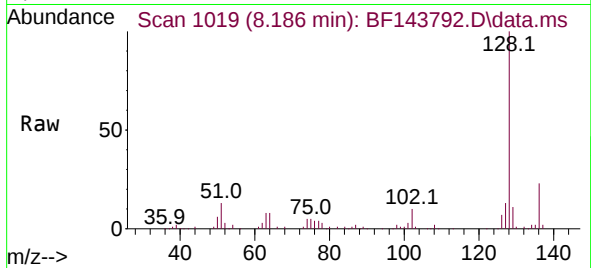




#31
Naphthalene
Concen: 5.523 ng
RT: 8.186 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

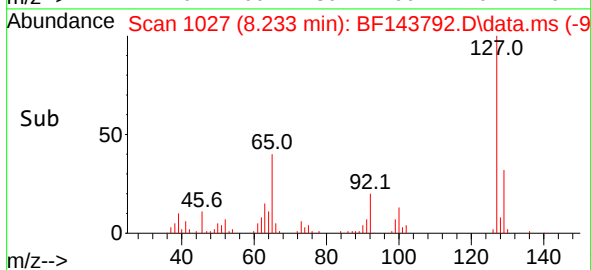
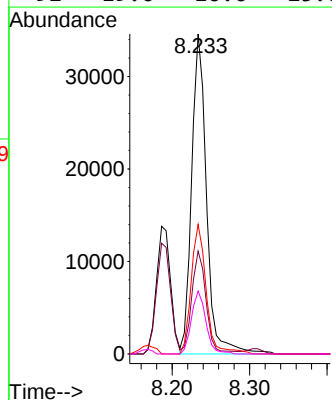
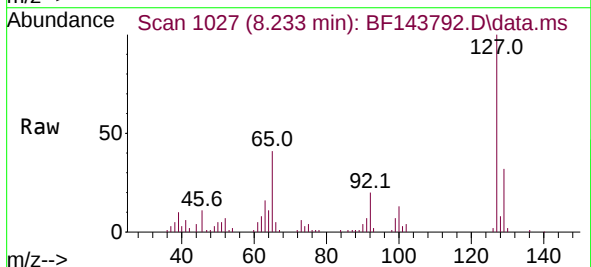
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

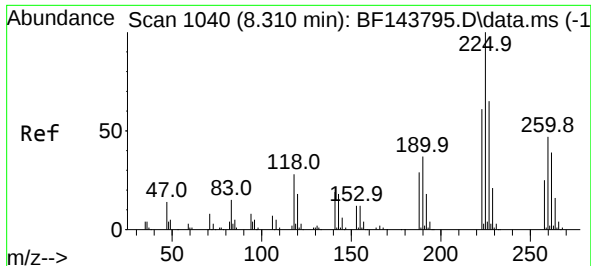
Tgt Ion:128 Resp: 135838
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 12.9 10.2 15.4



#33
4-Chloroaniline
Concen: 5.345 ng
RT: 8.233 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:127 Resp: 46191
Ion Ratio Lower Upper
127 100
129 32.1 25.4 38.2
65 40.5 33.4 50.2
92 19.6 16.6 25.0

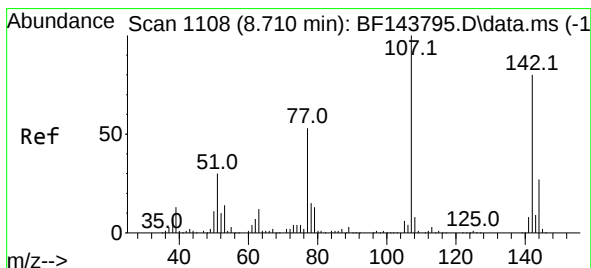
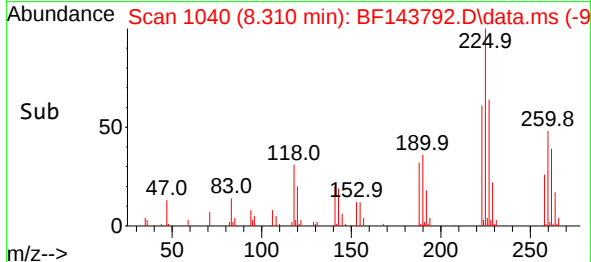
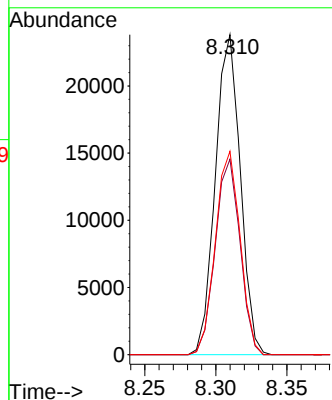
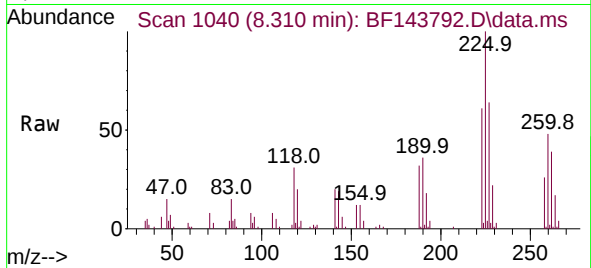




#34
Hexachlorobutadiene
Concen: 5.245 ng
RT: 8.310 min Scan# 1040
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

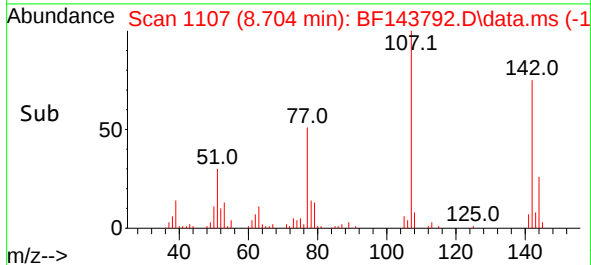
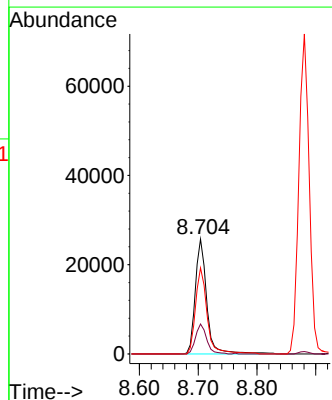
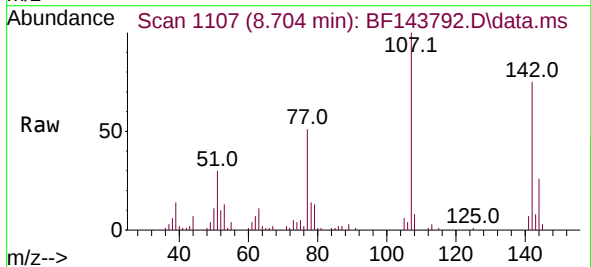
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

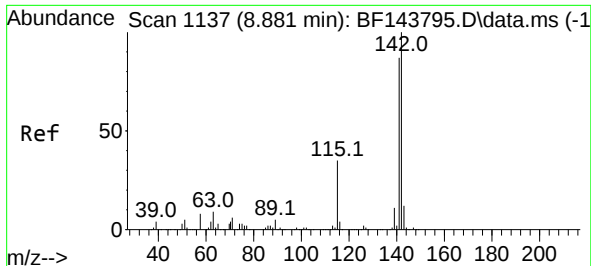
Tgt Ion:	225	Resp:	29187
Ion Ratio	Lower	Upper	
225	100		
223	61.1	48.6	72.8
227	63.5	51.9	77.9



#36
4-Chloro-3-methylphenol
Concen: 5.152 ng
RT: 8.704 min Scan# 1107
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:	107	Resp:	34756
Ion Ratio	Lower	Upper	
107	100		
144	26.0	21.8	32.8
142	74.9	63.6	95.4





#37

2-Methylnaphthalene

Concen: 5.612 ng

RT: 8.880 min Scan# 1137

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA_F

ClientSampleId :

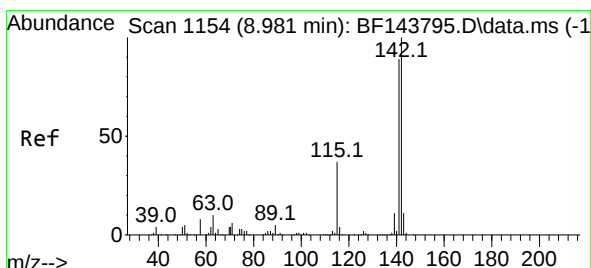
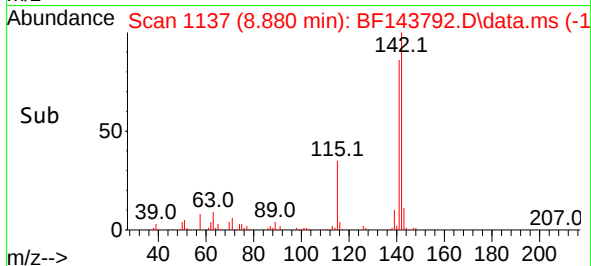
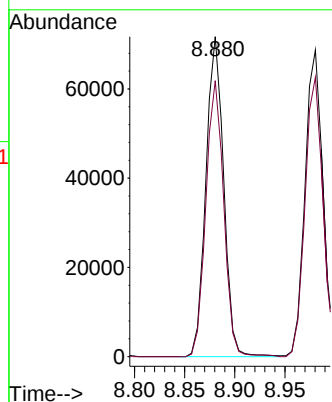
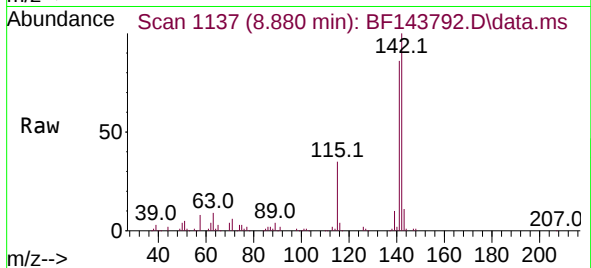
SSTDICC005

Tgt Ion:142 Resp: 88002

Ion Ratio Lower Upper

142 100

141 86.2 69.4 104.0



#38

1-Methylnaphthalene

Concen: 5.609 ng

RT: 8.980 min Scan# 1154

Delta R.T. -0.000 min

Lab File: BF143792.D

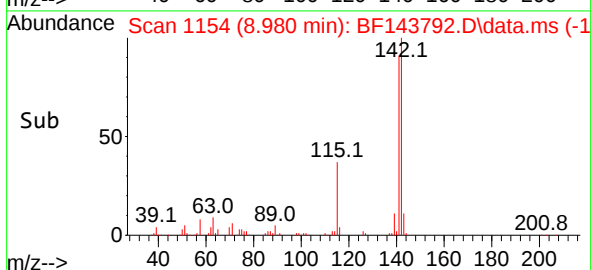
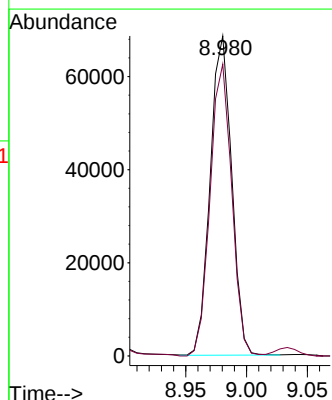
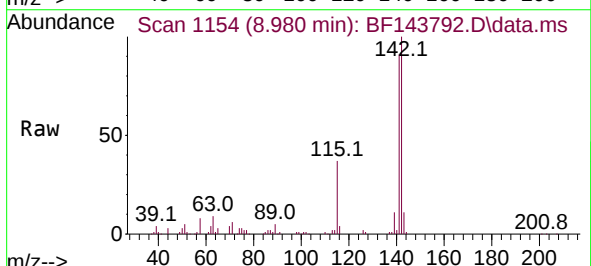
Acq: 23 Sep 2025 10:58

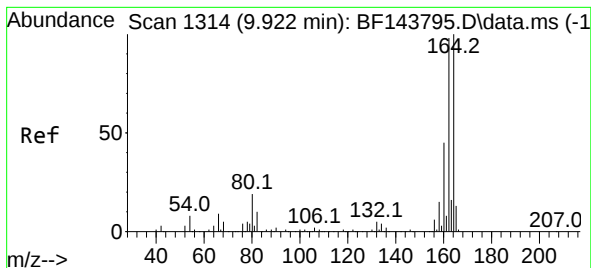
Tgt Ion:142 Resp: 84197

Ion Ratio Lower Upper

142 100

141 91.2 71.1 106.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.006 min

Lab File: BF143792.D

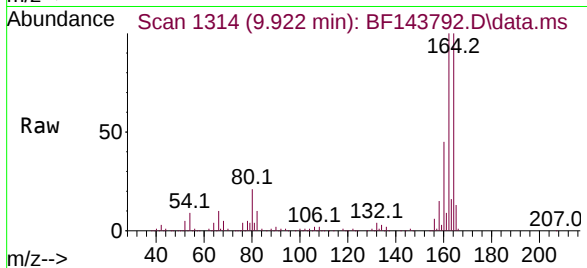
Acq: 23 Sep 2025 10:58

Instrument :

BNA_F

ClientSampleId :

SSTDICC005



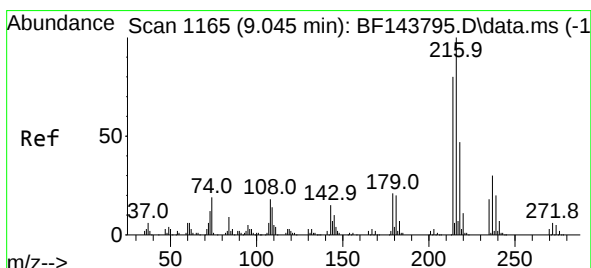
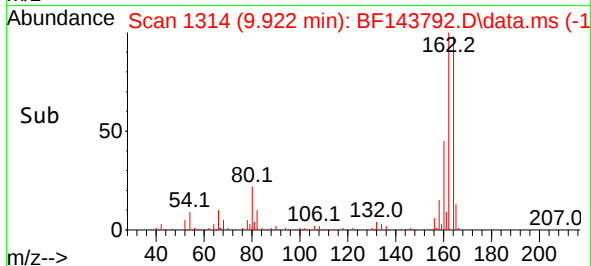
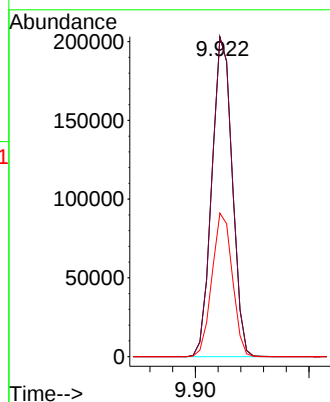
Tgt Ion:164 Resp: 252917

Ion Ratio Lower Upper

164 100

162 99.7 78.8 118.2

160 44.8 35.8 53.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 5.441 ng

RT: 9.045 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion:216 Resp: 41527

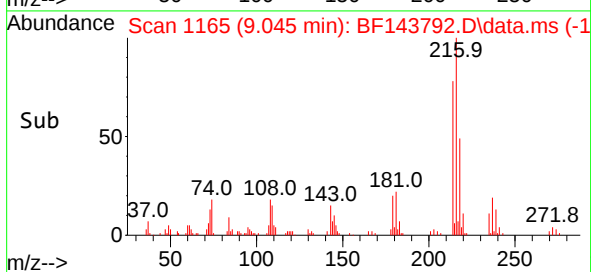
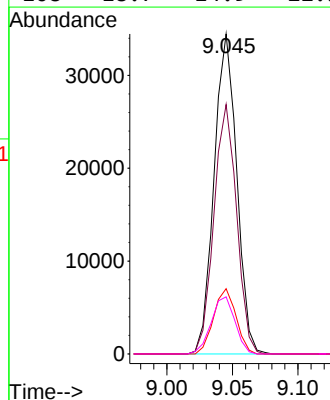
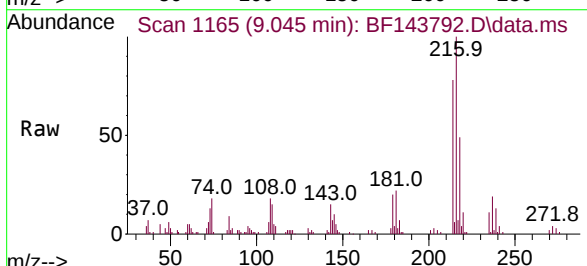
Ion Ratio Lower Upper

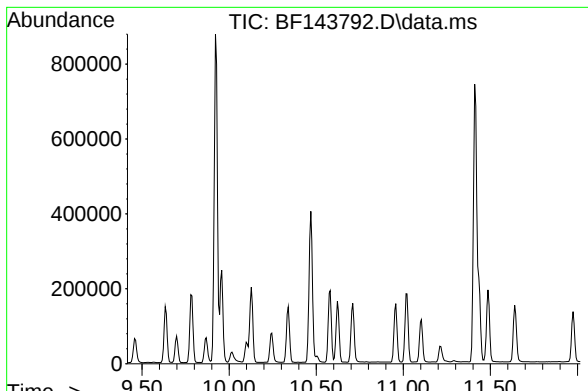
216 100

214 77.9 63.7 95.5

179 20.2 16.5 24.7

108 18.7 14.9 22.3

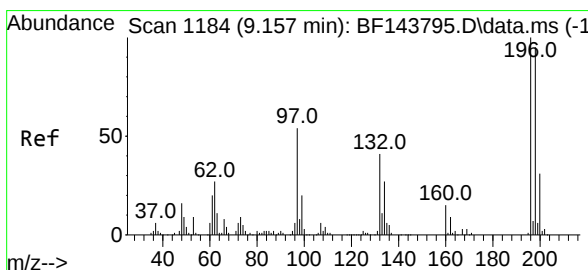
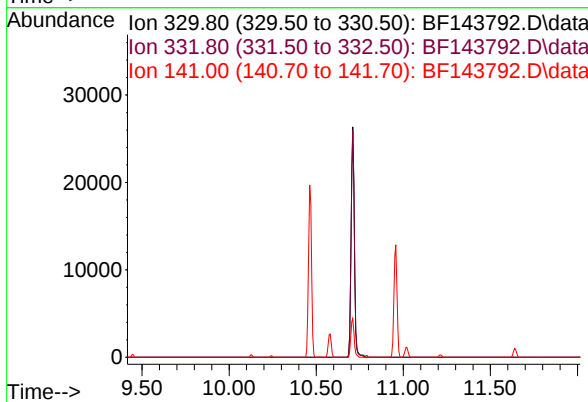




#42
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 10.72 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

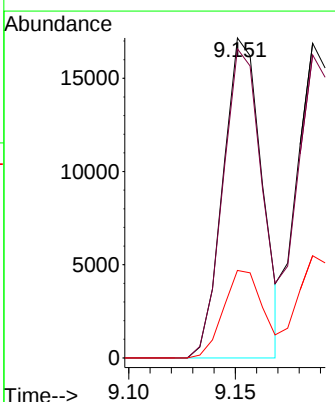
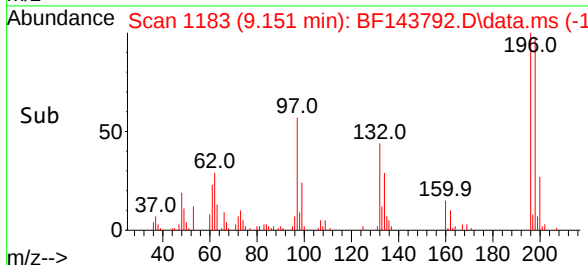
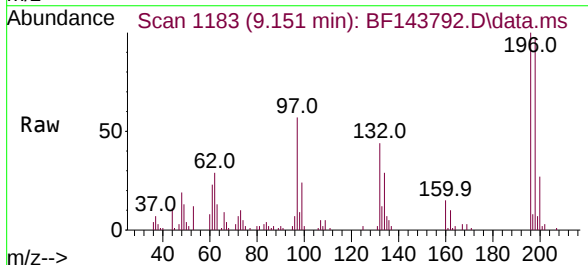
Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

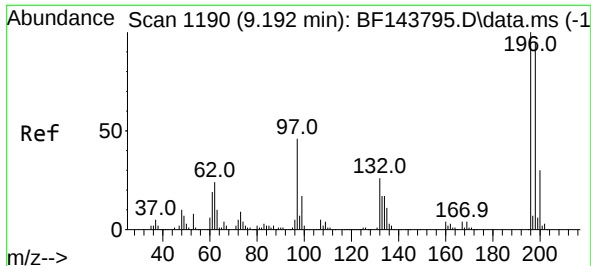
Tgt Ion: 330
 Sig Exp Ratio
 330 100
 332 93.4
 141 17.9



#43
 2,4,6-Trichlorophenol
 Concen: 4.555 ng
 RT: 9.151 min Scan# 1183
 Delta R.T. -0.006 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

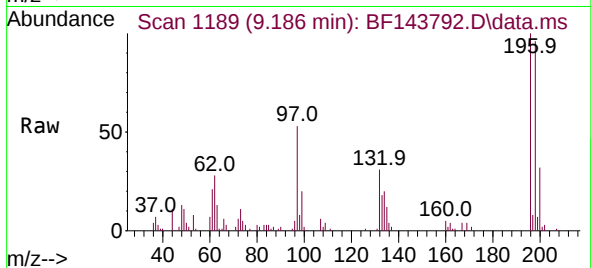
Tgt Ion:196 Resp: 21768
 Ion Ratio Lower Upper
 196 100
 198 96.6 76.2 114.2
 200 27.3 24.7 37.1



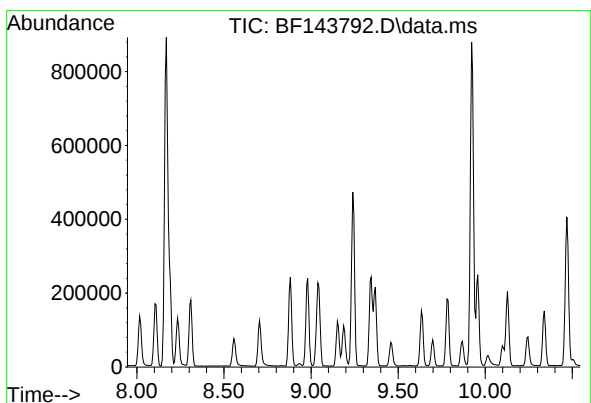
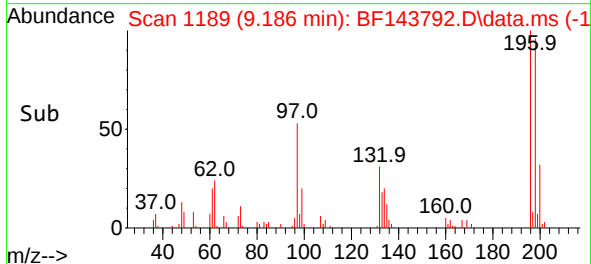
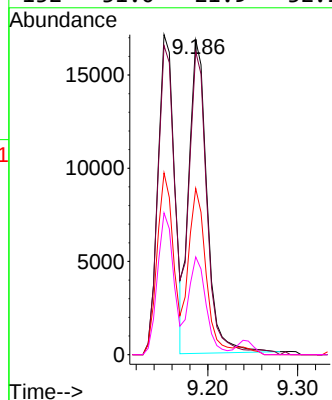


#44
2,4,5-Trichlorophenol
Concen: 4.692 ng
RT: 9.186 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDIC005



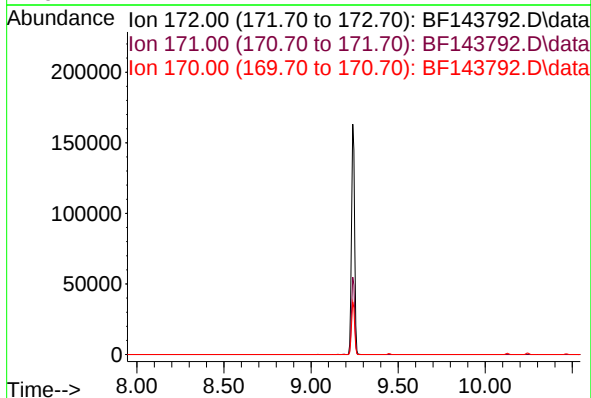
Tgt Ion:196 Resp: 23454
Ion Ratio Lower Upper
196 100
198 96.3 75.9 113.9
97 52.8 38.3 57.5
132 31.0 21.9 32.9

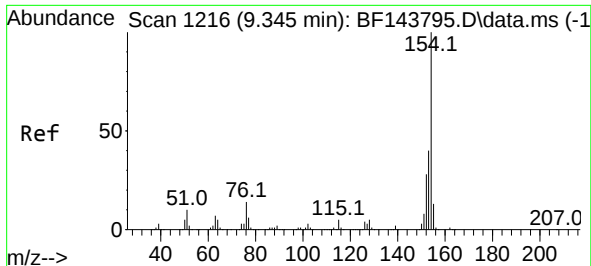


#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.25 min

Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 172
Sig Exp Ratio
172 100
171 34.9
170 23.9

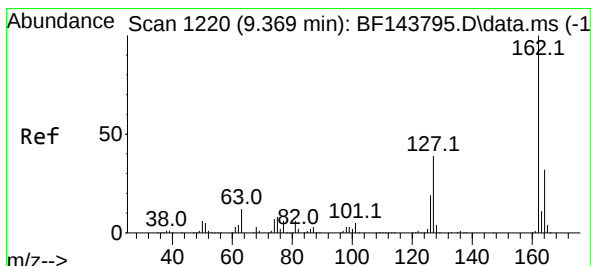
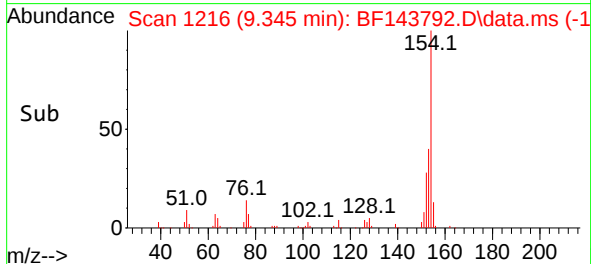
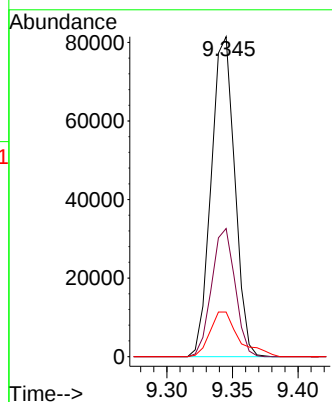
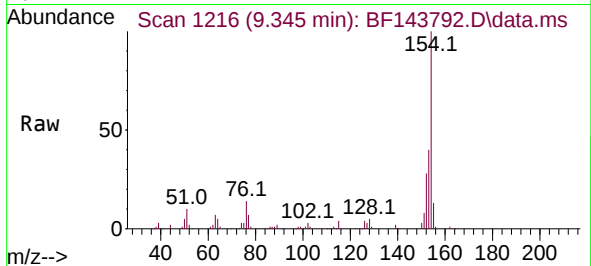




#46
1,1'-Biphenyl
Concen: 5.552 ng
RT: 9.345 min Scan# 1216
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

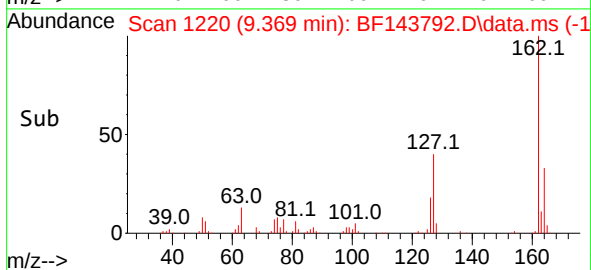
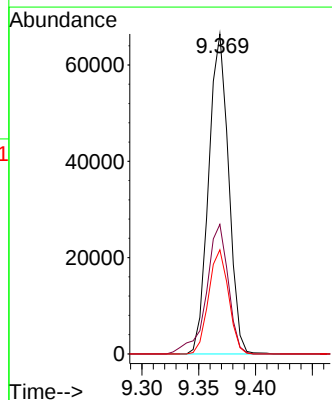
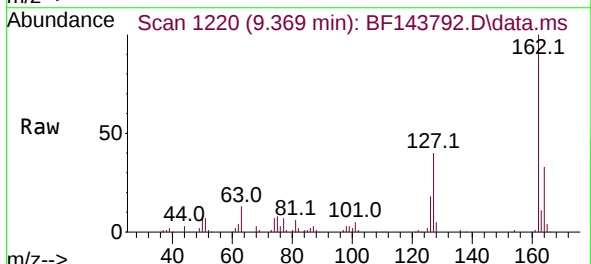
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

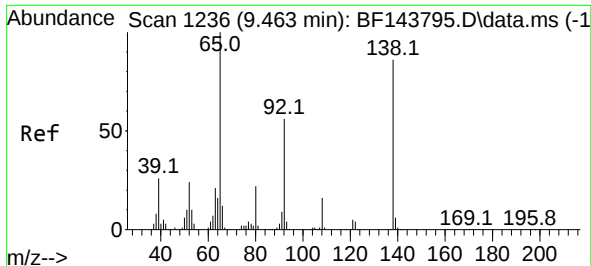
Tgt Ion:154 Resp: 101651
Ion Ratio Lower Upper
154 100
153 40.0 19.7 59.7
76 13.9 0.0 33.8



#47
2-Chloronaphthalene
Concen: 5.504 ng
RT: 9.369 min Scan# 1220
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:162 Resp: 81117
Ion Ratio Lower Upper
162 100
127 40.5 31.5 47.3
164 32.5 25.9 38.9

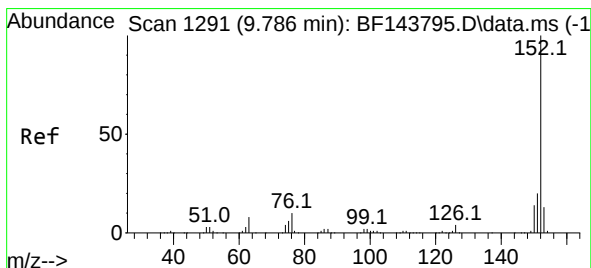
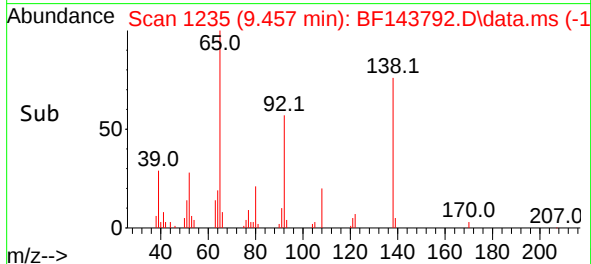
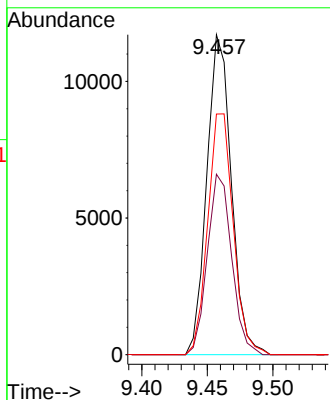
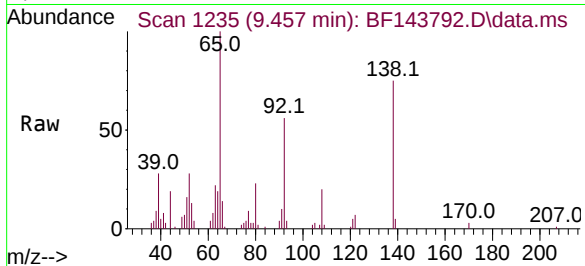




#48
2-Nitroaniline
Concen: 3.427 ng
RT: 9.457 min Scan# 1235
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

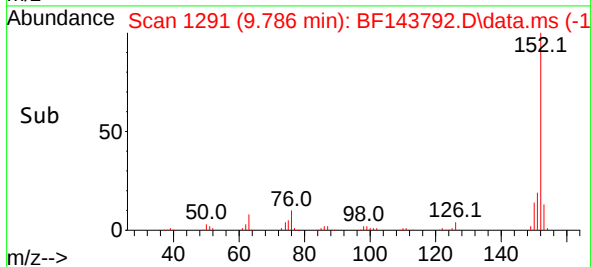
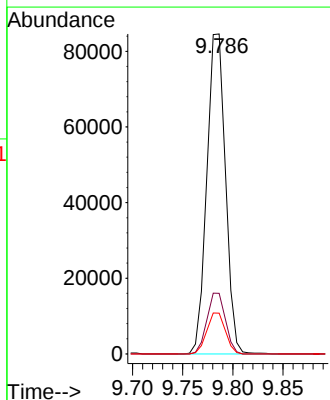
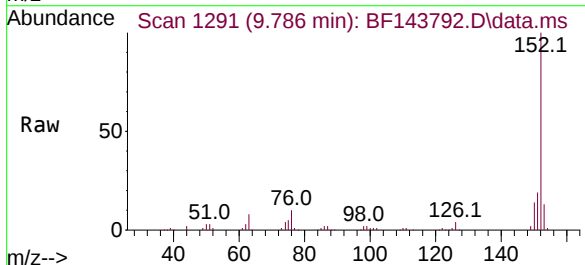
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

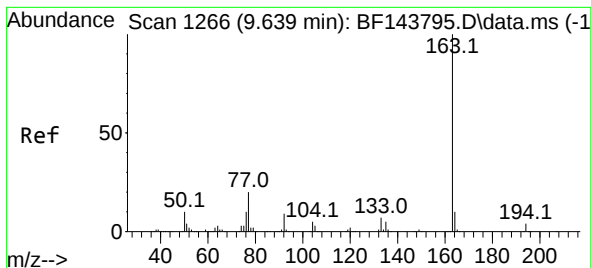
Tgt Ion: 65 Resp: 15262
Ion Ratio Lower Upper
65 100
92 56.4 44.9 67.3
138 75.2 69.0 103.4



#49
Acenaphthylene
Concen: 5.389 ng
RT: 9.786 min Scan# 1291
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 152 Resp: 109327
Ion Ratio Lower Upper
152 100
151 18.9 15.7 23.5
153 12.7 10.6 15.8





#50

Dimethylphthalate

Concen: 5.229 ng

RT: 9.633 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

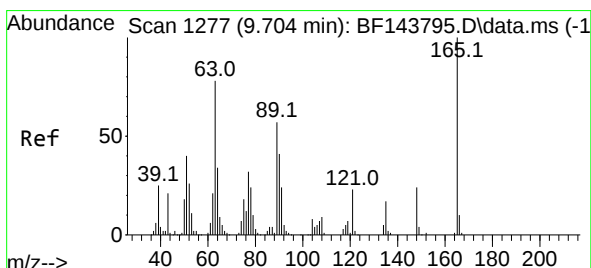
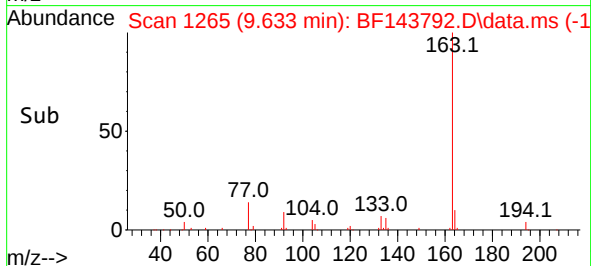
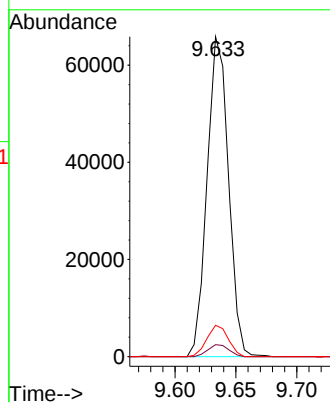
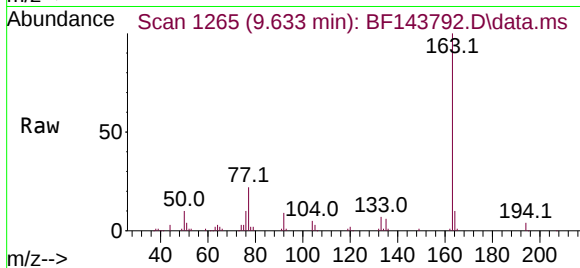
Tgt Ion:163 Resp: 80614

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.6

164 9.8 8.2 12.2



#51

2,6-Dinitrotoluene

Concen: 3.452 ng

RT: 9.698 min Scan# 1276

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

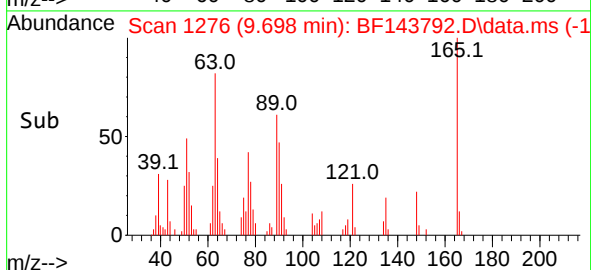
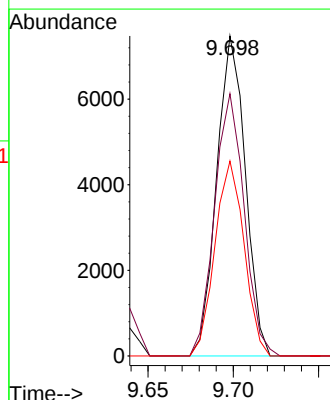
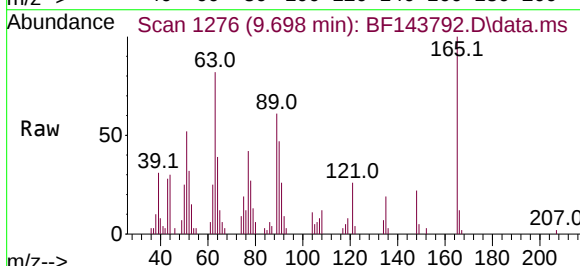
Tgt Ion:165 Resp: 8744

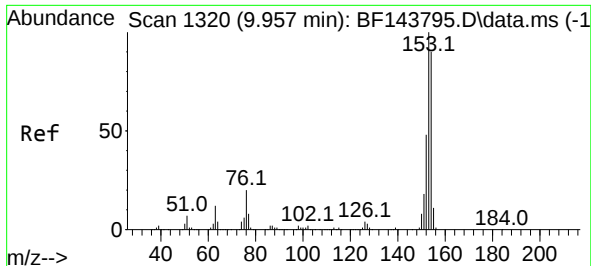
Ion Ratio Lower Upper

165 100

63 81.9 62.6 94.0

89 60.9 45.2 67.8

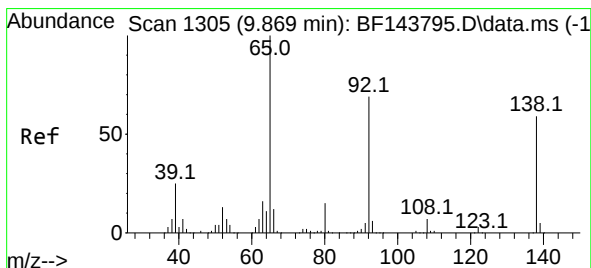
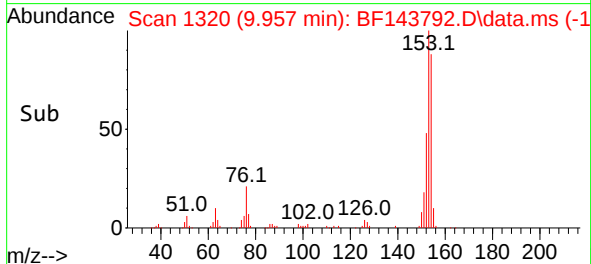
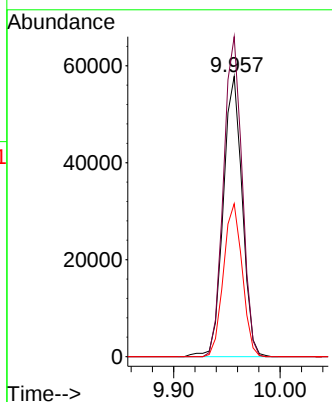
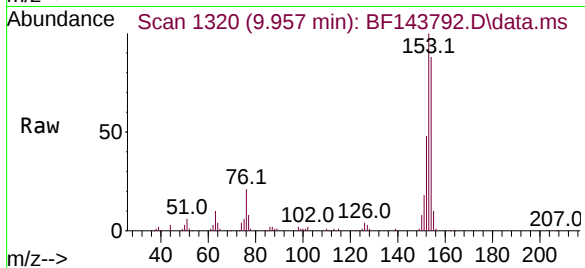




#52
Acenaphthene
Concen: 5.372 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

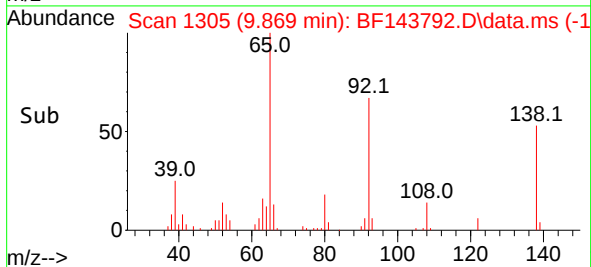
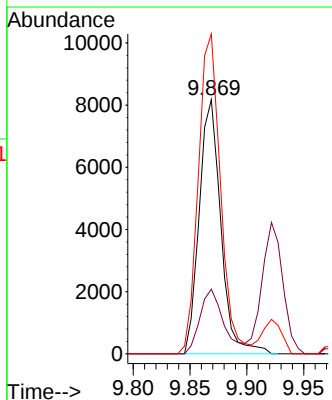
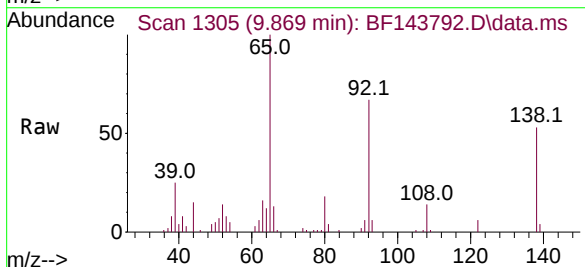
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

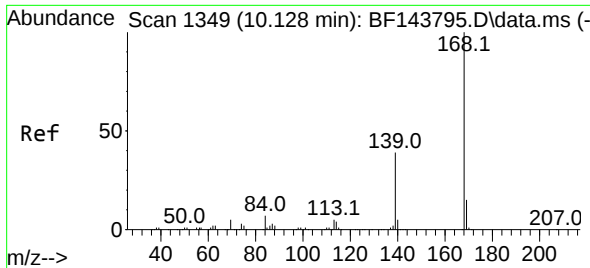
Tgt Ion:154 Resp: 71713
Ion Ratio Lower Upper
154 100
153 114.2 88.7 133.1
152 54.6 42.7 64.1



#53
3-Nitroaniline
Concen: 3.526 ng
RT: 9.869 min Scan# 1305
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:138 Resp: 10825
Ion Ratio Lower Upper
138 100
108 25.4 9.9 14.9#
92 125.9 93.5 140.3

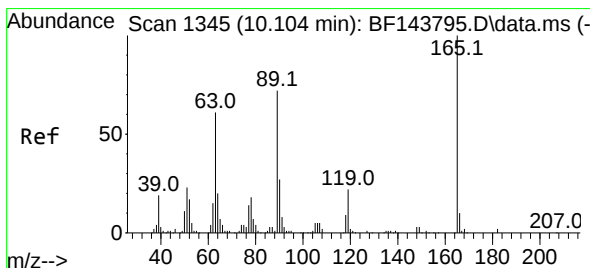
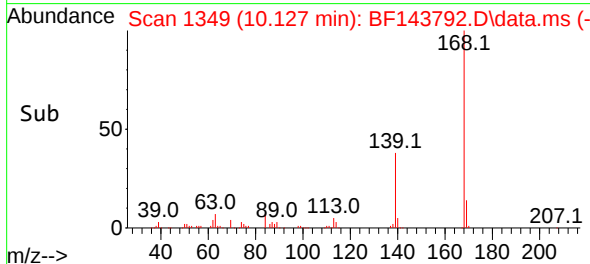
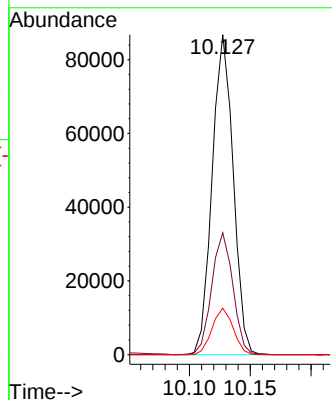
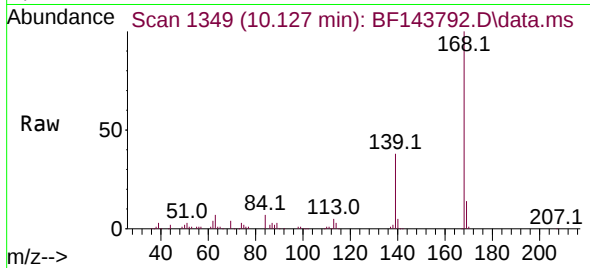




#55
Dibenzofuran
Concen: 5.524 ng
RT: 10.127 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

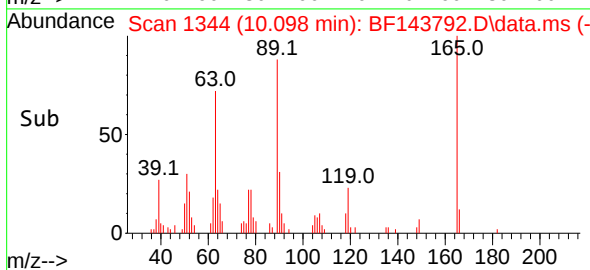
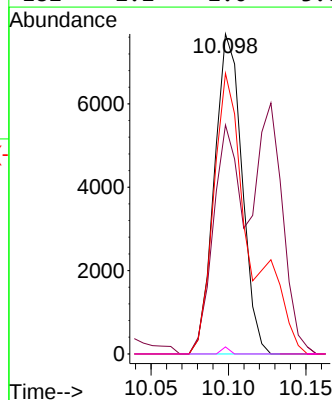
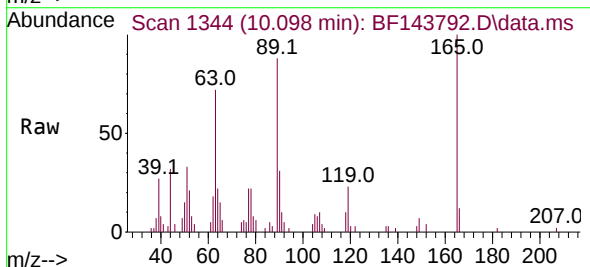
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

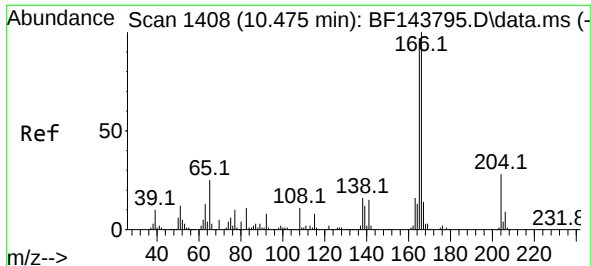
Tgt Ion:168 Resp: 104283
Ion Ratio Lower Upper
168 100
139 38.1 31.0 46.6
169 14.5 11.9 17.9



#57
2,4-Dinitrotoluene
Concen: 5.298 ng
RT: 10.098 min Scan# 1344
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:165 Resp: 9518
Ion Ratio Lower Upper
165 100
63 71.5 48.9 73.3
89 87.7 57.5 86.3#
182 2.2 2.0 3.0

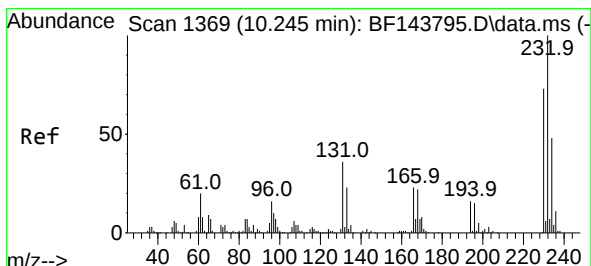
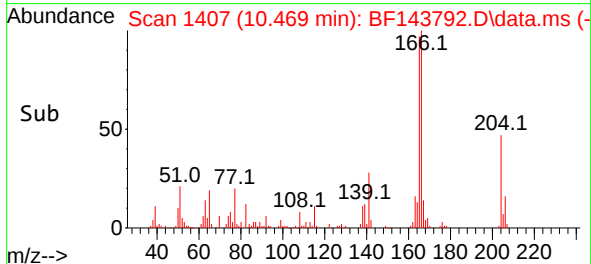
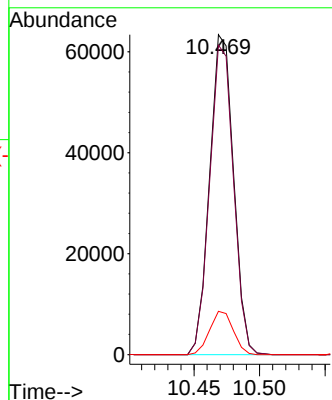
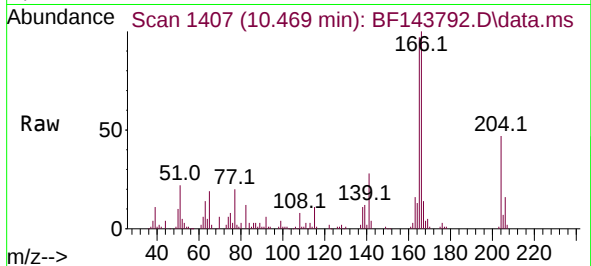




#58
Fluorene
Concen: 5.745 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

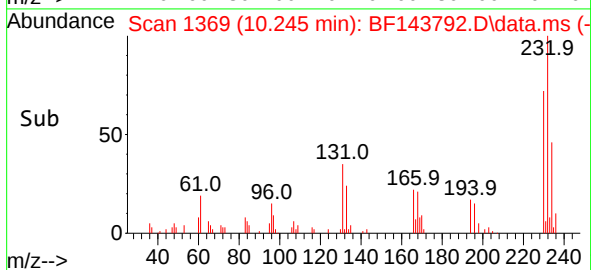
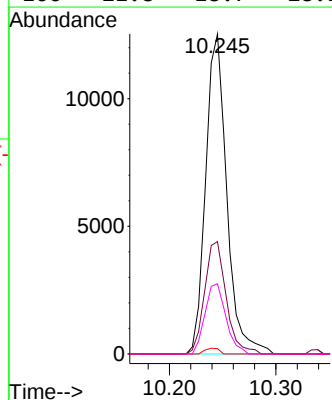
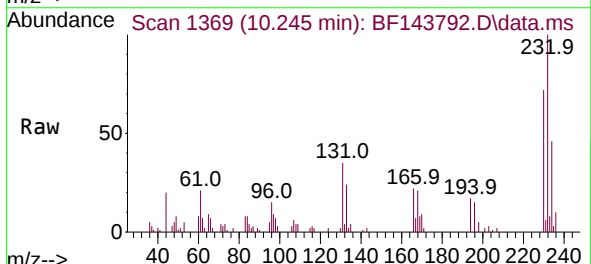
Instrument :
BNA_F
ClientSampleId :
SSTDIC005

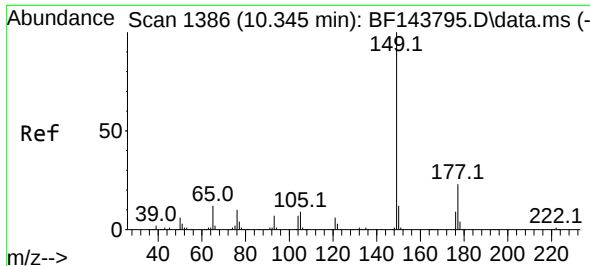
Tgt Ion:166 Resp: 80629
Ion Ratio Lower Upper
166 100
165 96.7 78.0 117.0
167 13.5 10.9 16.3



#59
2,3,4,6-Tetrachlorophenol
Concen: 4.017 ng
RT: 10.245 min Scan# 1369
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:232 Resp: 17203
Ion Ratio Lower Upper
232 100
131 35.9 29.4 44.2
130 1.2 1.3 1.9#
166 21.8 18.7 28.1

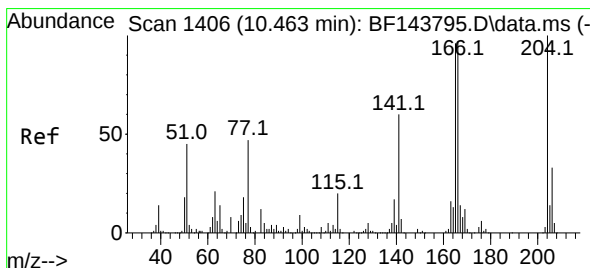
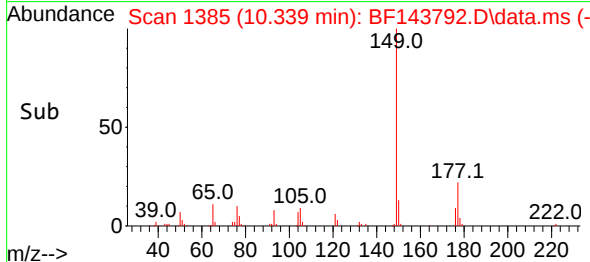
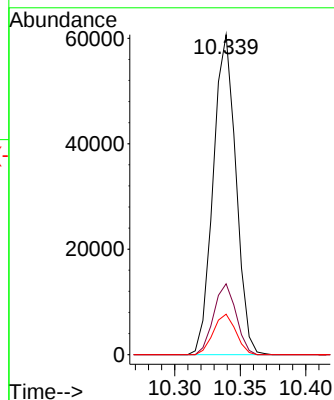
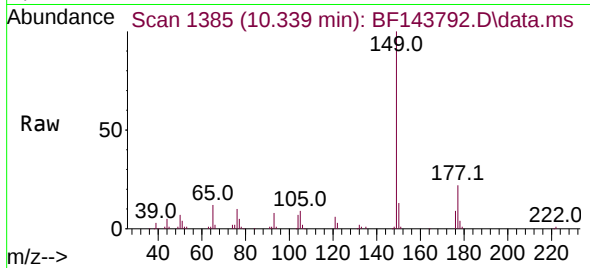




#60
Diethylphthalate
Concen: 5.076 ng
RT: 10.339 min Scan# 1385
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

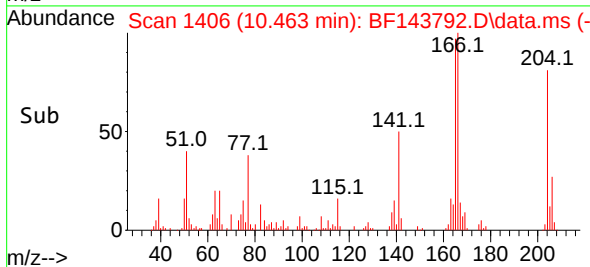
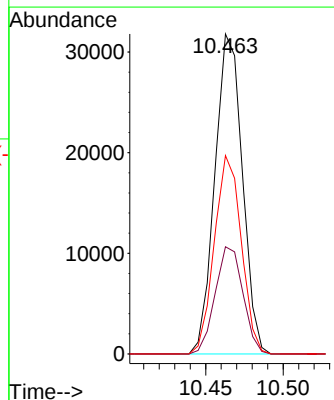
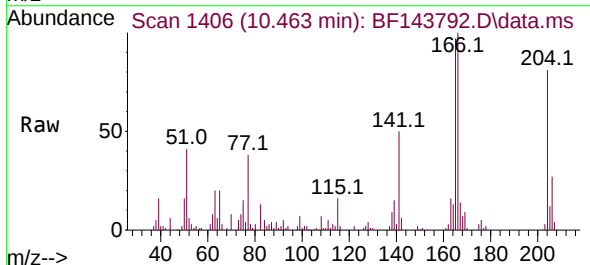
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

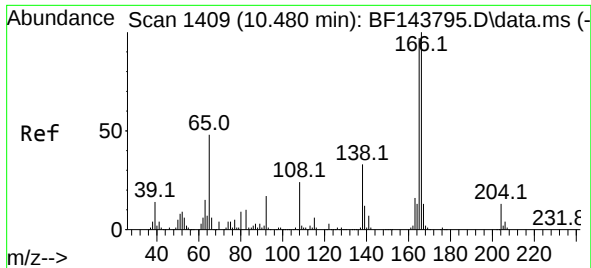
Tgt Ion:149 Resp: 73247
Ion Ratio Lower Upper
149 100
177 22.1 18.1 27.1
150 12.6 9.7 14.5



#61
4-Chlorophenyl-phenylether
Concen: 5.487 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:204 Resp: 39239
Ion Ratio Lower Upper
204 100
206 33.5 26.7 40.1
141 62.0 48.2 72.2

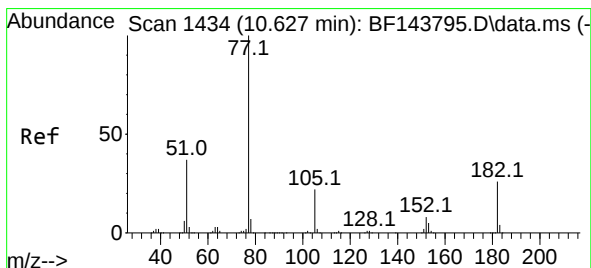
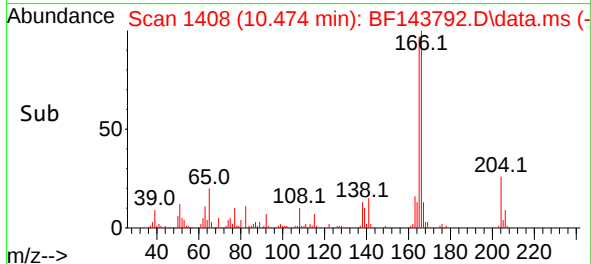
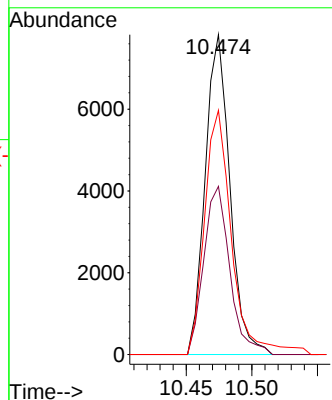
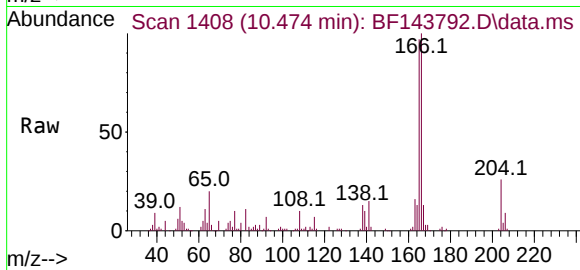




#62
4-Nitroaniline
Concen: 3.554 ng
RT: 10.474 min Scan# 1409
Delta R.T. -0.018 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

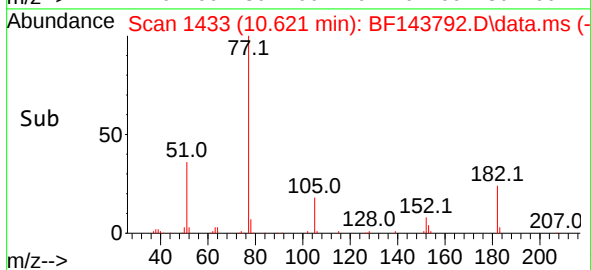
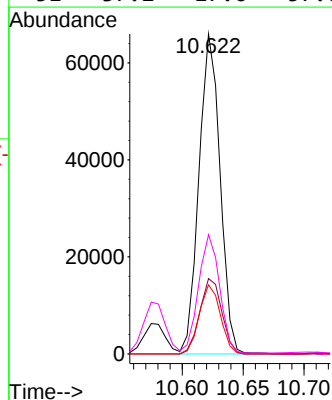
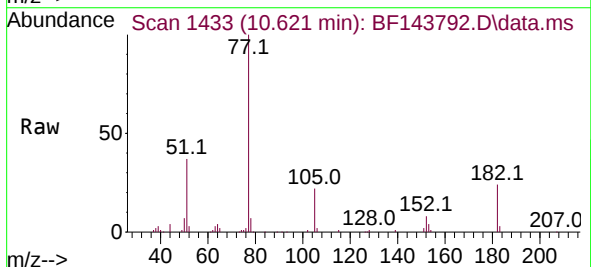
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

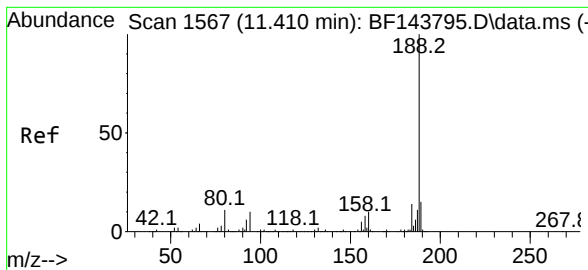
Tgt Ion:	138	Resp:	10259
Ion	Ratio	Lower	Upper
138	100		
92	52.6	31.5	71.5
108	76.3	51.9	91.9



#63
Azobenzene
Concen: 5.240 ng
RT: 10.621 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:	77	Resp:	79697
Ion	Ratio	Lower	Upper
77	100		
182	23.5	5.9	45.9
105	21.6	2.3	42.3
51	37.2	17.6	57.6

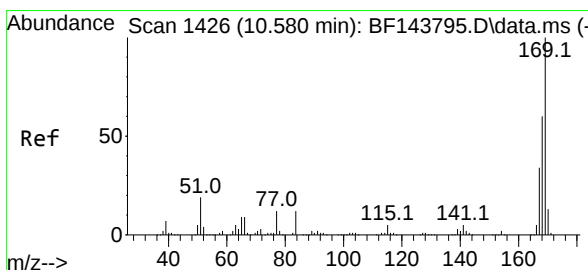
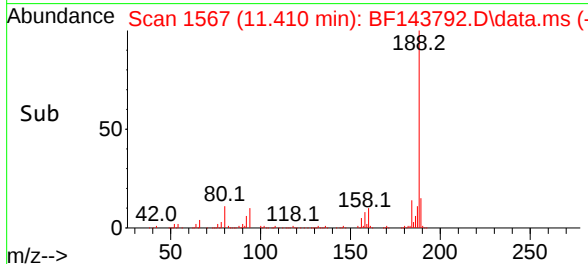
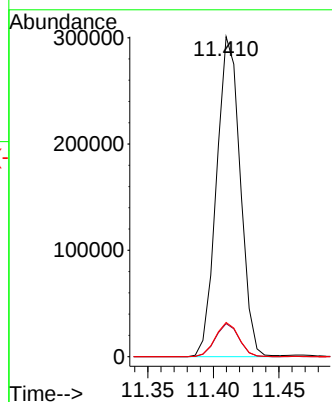
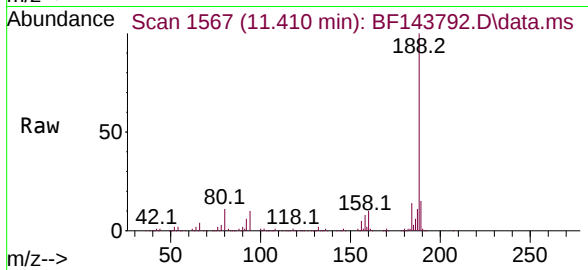




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

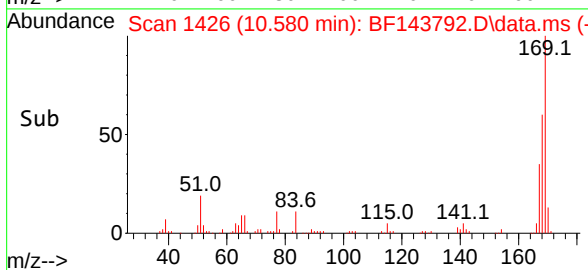
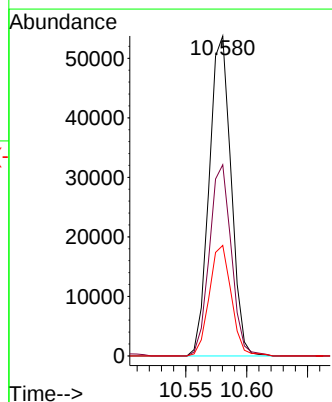
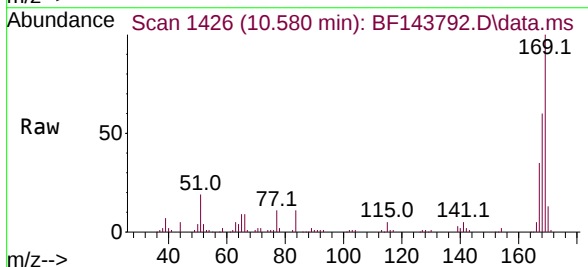
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

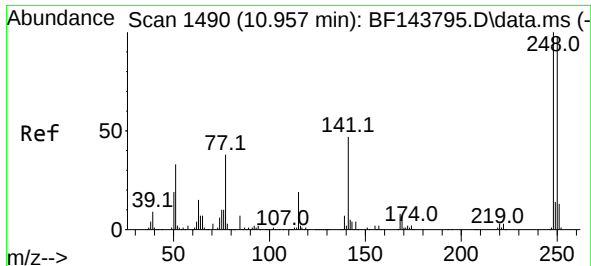
Tgt Ion:188 Resp: 379147
Ion Ratio Lower Upper
188 100
94 10.3 8.2 12.2
80 10.7 8.6 12.8



#66
n-Nitrosodiphenylamine
Concen: 5.378 ng
RT: 10.580 min Scan# 1426
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:169 Resp: 67054
Ion Ratio Lower Upper
169 100
168 59.7 47.9 71.9
167 34.5 27.0 40.6

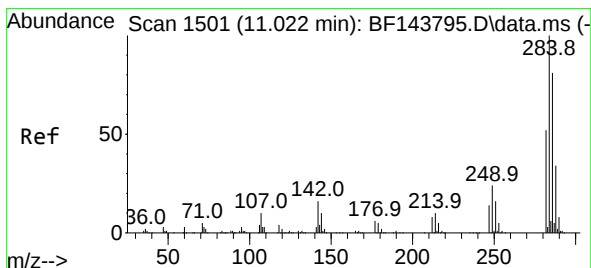
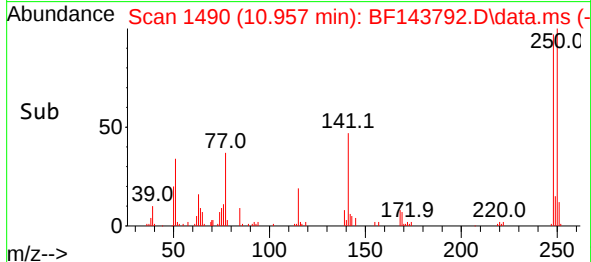
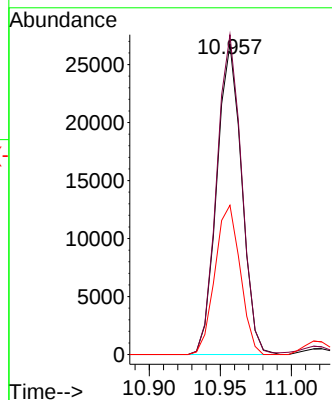
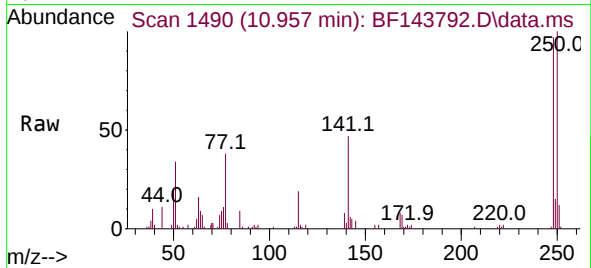




#67
4-Bromophenyl-phenylether
Concen: 5.047 ng
RT: 10.957 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

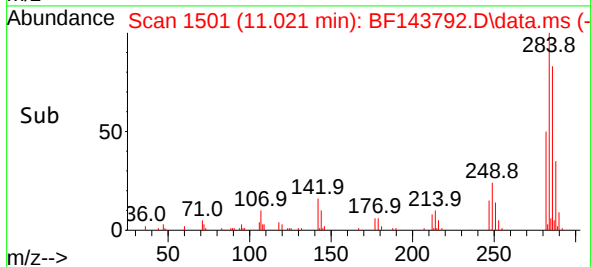
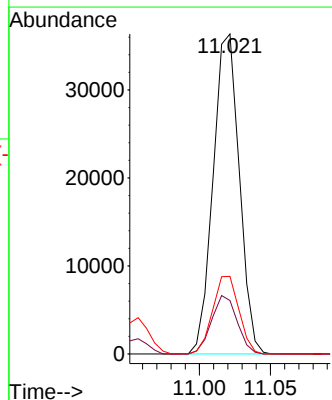
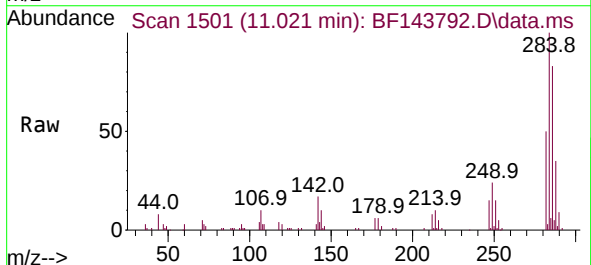
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

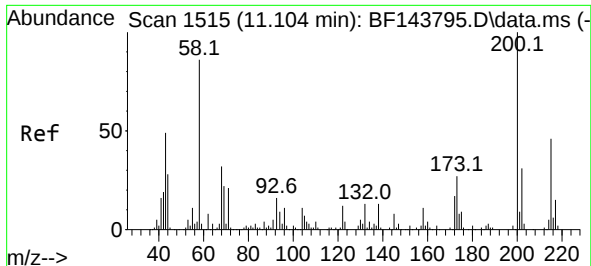
Tgt Ion:248 Resp: 32607
Ion Ratio Lower Upper
248 100
250 103.0 78.7 118.1
141 48.1 37.9 56.9



#68
Hexachlorobenzene
Concen: 5.238 ng
RT: 11.021 min Scan# 1501
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:284 Resp: 46642
Ion Ratio Lower Upper
284 100
142 16.7 13.1 19.7
249 24.2 19.5 29.3

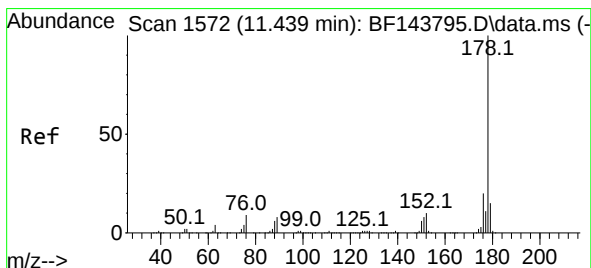
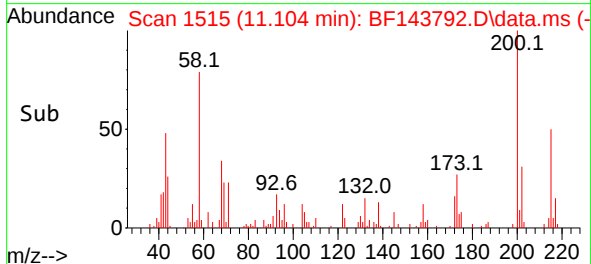
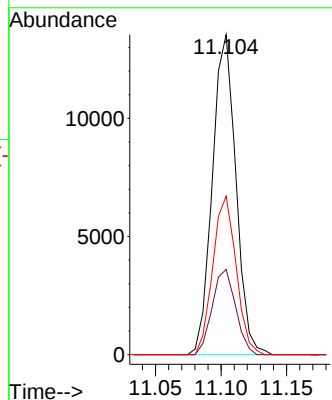
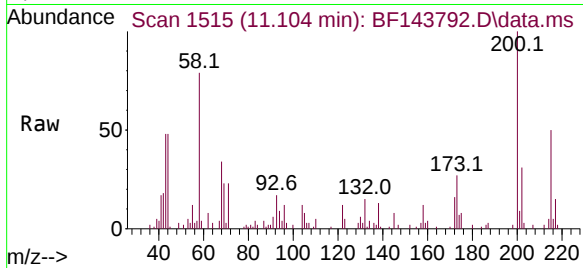




#69
 Atrazine
 Concen: 4.683 ng
 RT: 11.104 min Scan# 1515
 Delta R.T. -0.006 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

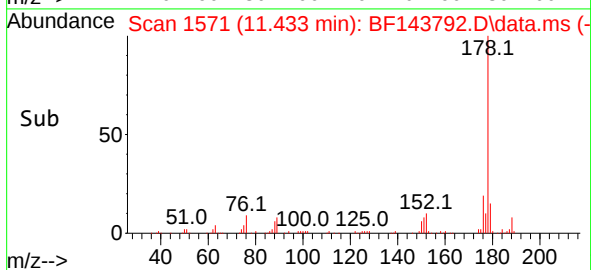
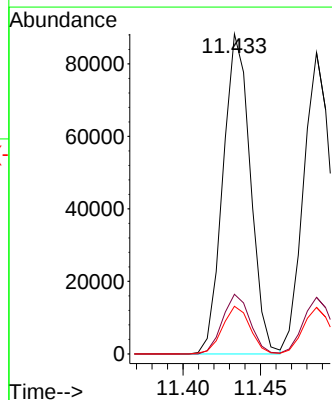
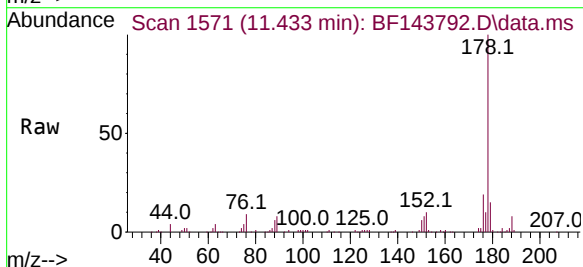
Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

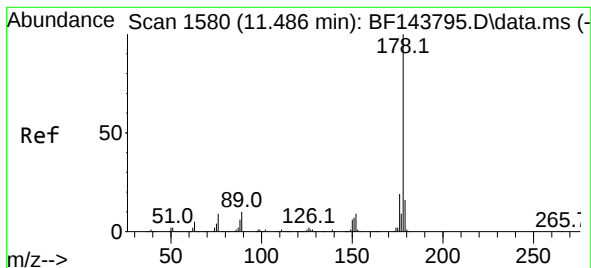
Tgt Ion:200 Resp: 16909
 Ion Ratio Lower Upper
 200 100
 173 26.6 7.2 47.2
 215 49.5 26.0 66.0



#71
 Phenanthrene
 Concen: 5.577 ng
 RT: 11.433 min Scan# 1571
 Delta R.T. -0.006 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Tgt Ion:178 Resp: 108554
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.6 23.4
 179 14.9 12.2 18.4

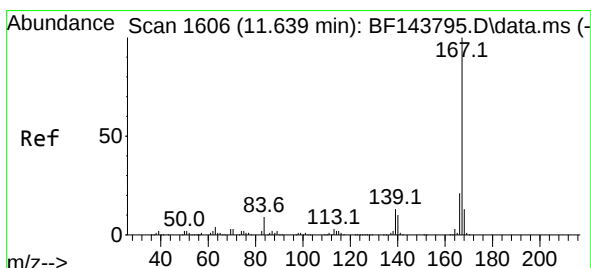
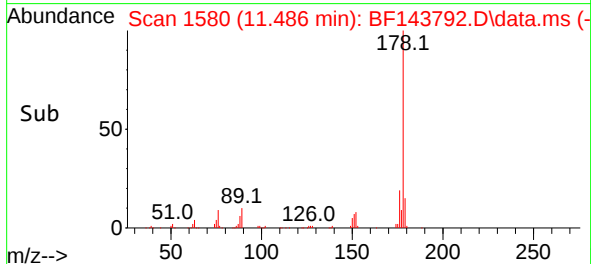
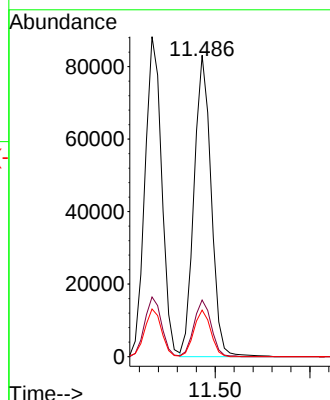
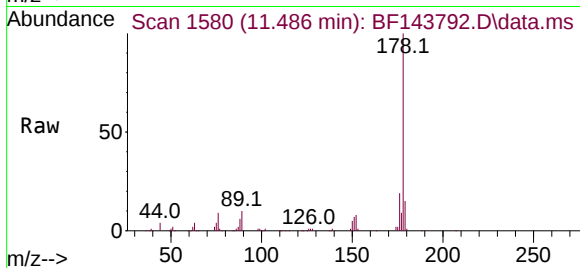




#72
Anthracene
Concen: 5.322 ng
RT: 11.486 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

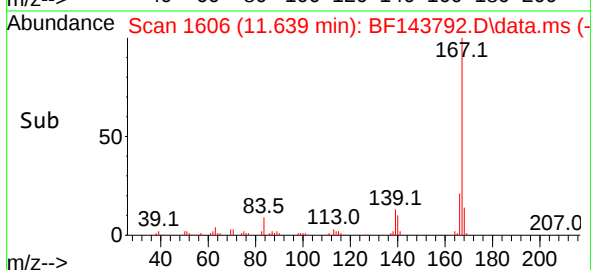
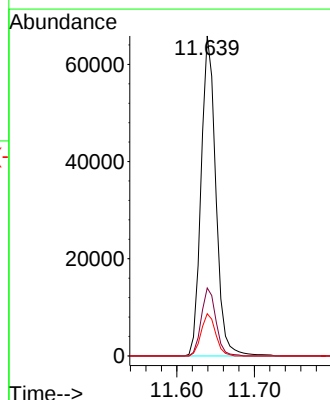
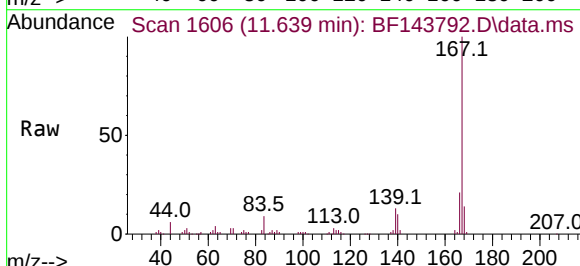
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

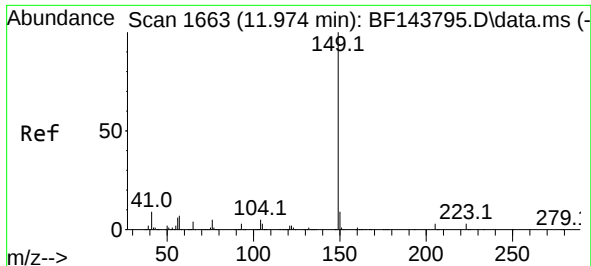
Tgt Ion:	178	Resp:	103911
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.3	22.9
179	15.4	12.8	19.2



#73
Carbazole
Concen: 5.086 ng
RT: 11.639 min Scan# 1606
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:	167	Resp:	86827
Ion Ratio	Lower	Upper	
167	100		
166	21.2	17.0	25.4
139	13.2	10.6	15.8

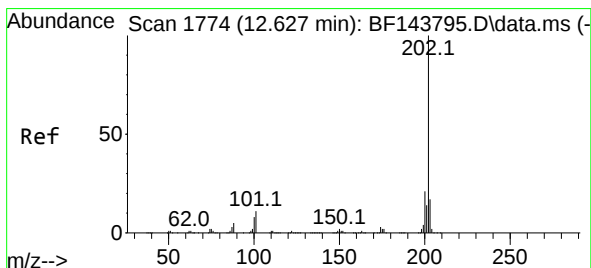
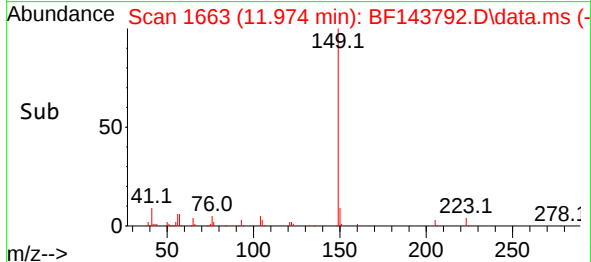
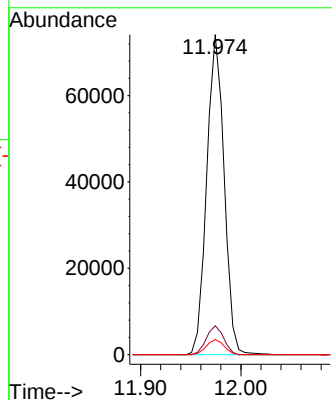
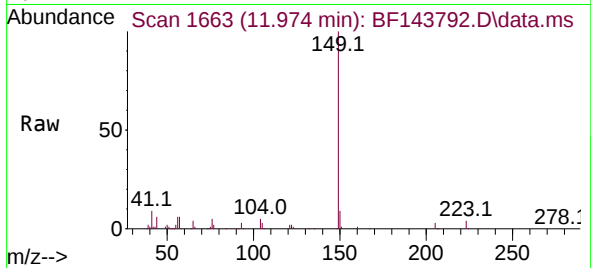




#74
Di-n-butylphthalate
Concen: 4.538 ng
RT: 11.974 min Scan# 1663
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

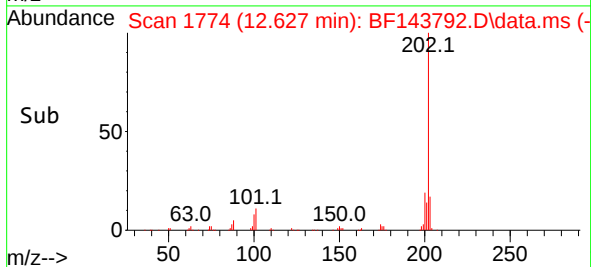
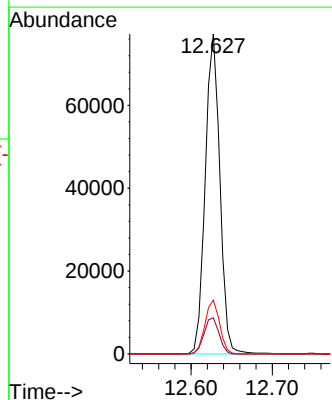
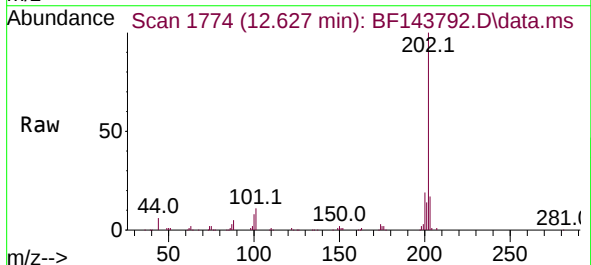
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

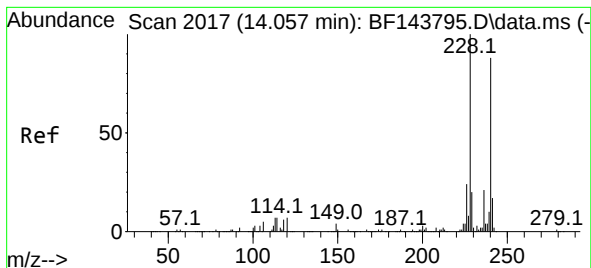
Tgt Ion:149 Resp: 89101
Ion Ratio Lower Upper
149 100
150 9.0 7.3 10.9
104 4.7 3.6 5.4



#75
Fluoranthene
Concen: 4.932 ng
RT: 12.627 min Scan# 1774
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:202 Resp: 96550
Ion Ratio Lower Upper
202 100
101 11.3 0.0 31.1
203 16.8 0.0 37.4

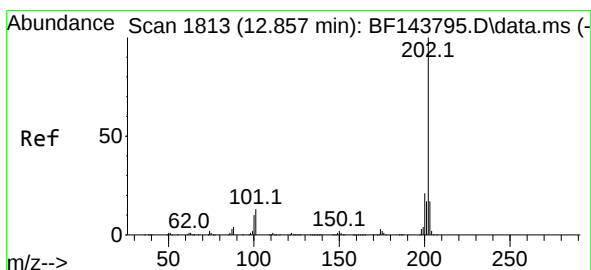
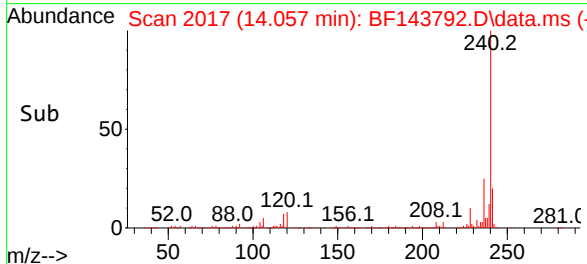
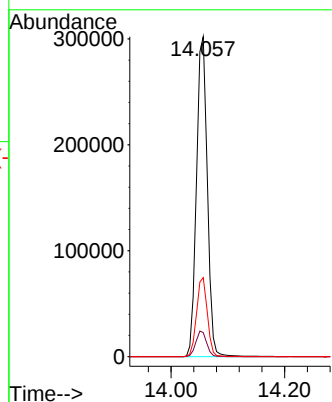
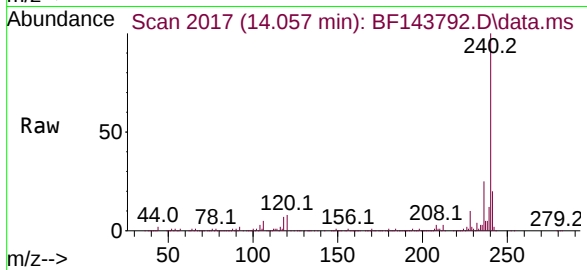




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

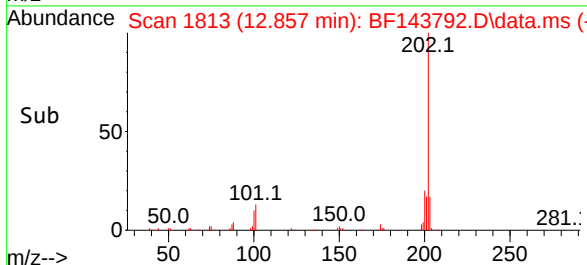
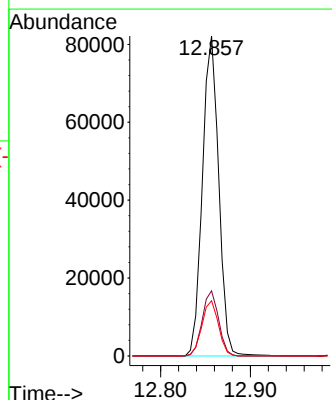
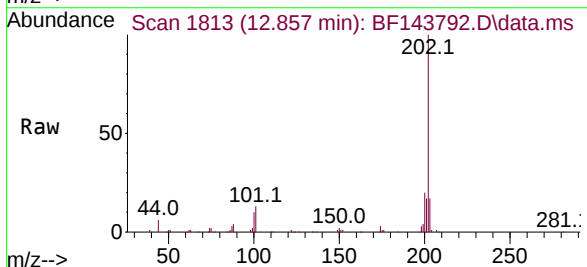
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

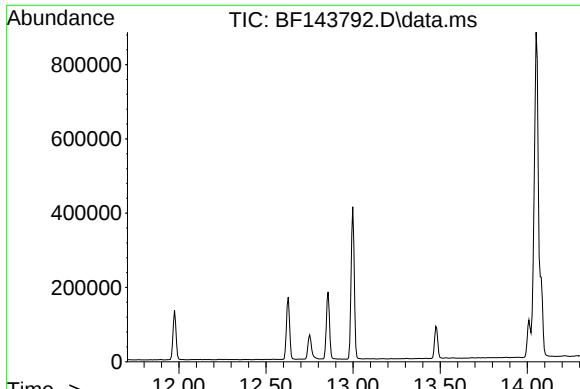
Tgt Ion:240 Resp: 398321
Ion Ratio Lower Upper
240 100
120 7.5 6.2 9.4
236 24.7 19.4 29.2



#78
Pyrene
Concen: 5.279 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:202 Resp: 103385
Ion Ratio Lower Upper
202 100
200 20.3 17.0 25.4
203 17.2 13.9 20.9



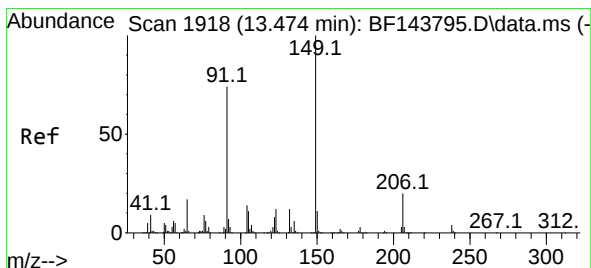
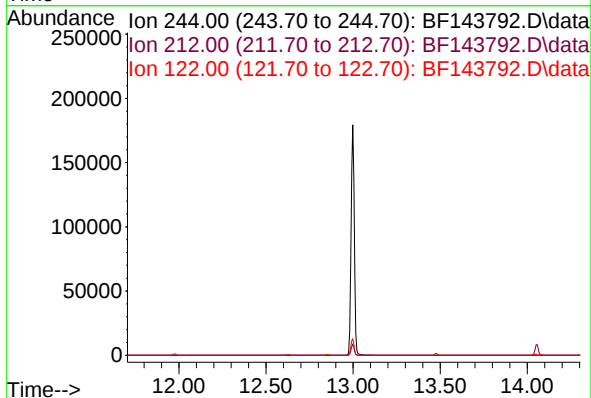


#79
 Terphenyl-d14
 Concen: 0.000 ng
 Expected RT: 13.00 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Tgt Ion: 244

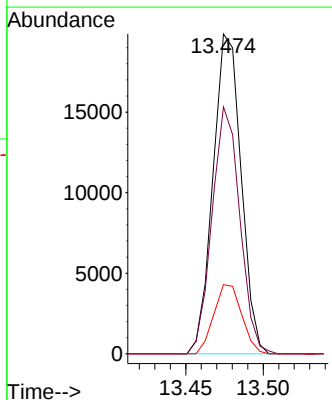
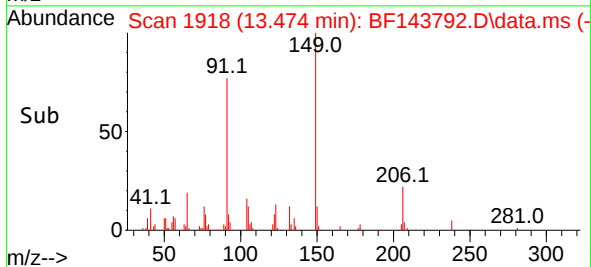
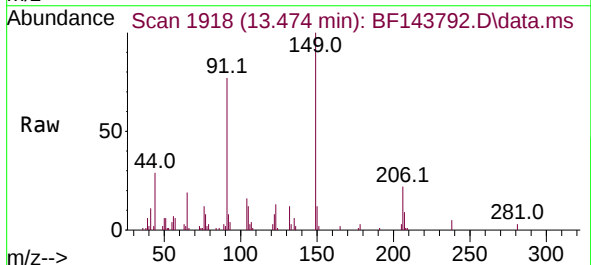
Sig	Exp Ratio
244	100
212	4.9
122	7.0

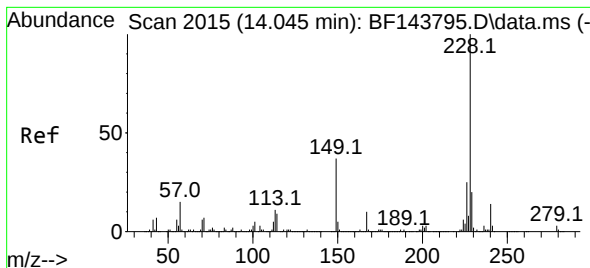


#80
 Butylbenzylphthalate
 Concen: 3.695 ng
 RT: 13.474 min Scan# 1918
 Delta R.T. -0.006 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

Tgt Ion: 149 Resp: 25033

Ion	Ratio	Lower	Upper
149	100		
91	77.2	59.5	89.3
206	21.6	16.1	24.1





#81

Benzo(a)anthracene

Concen: 5.163 ng

RT: 14.045 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

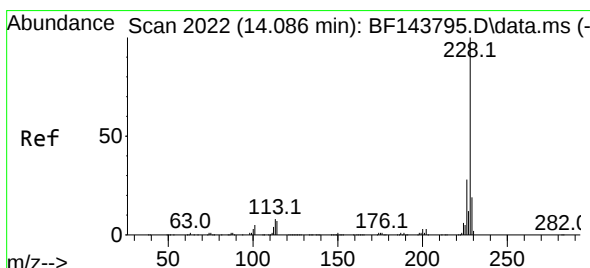
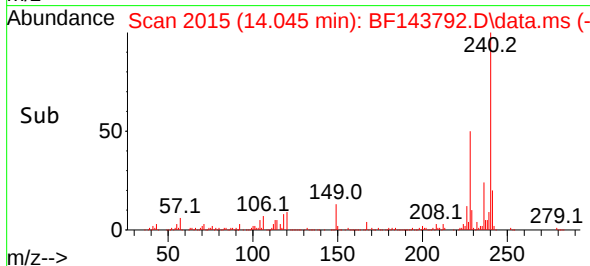
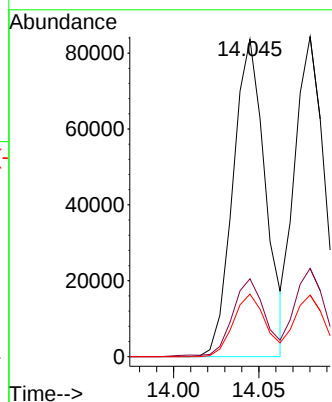
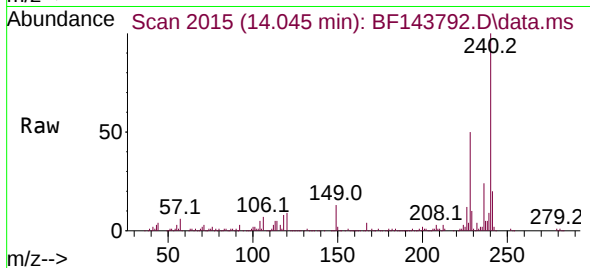
Tgt Ion:228 Resp: 110473

Ion Ratio Lower Upper

228 100

226 24.5 20.2 30.2

229 19.7 16.1 24.1



#83

Chrysene

Concen: 5.353 ng

RT: 14.080 min Scan# 2021

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

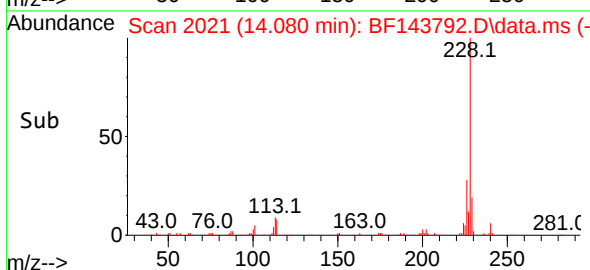
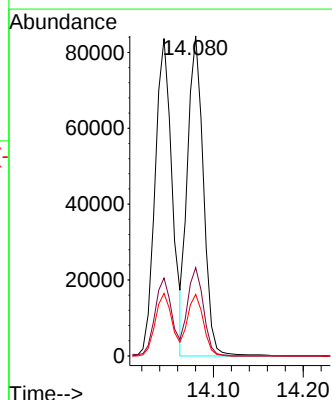
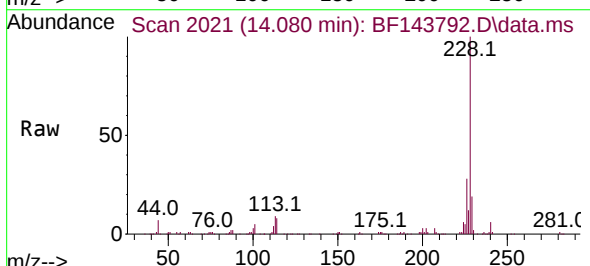
Tgt Ion:228 Resp: 103643

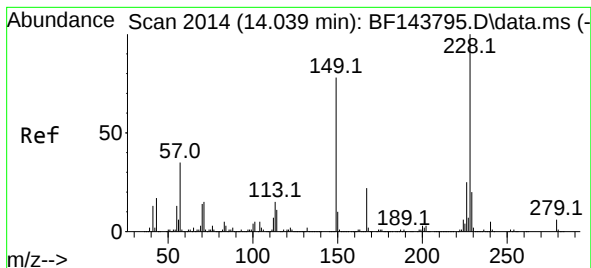
Ion Ratio Lower Upper

228 100

226 27.6 22.6 33.8

229 19.2 15.6 23.4

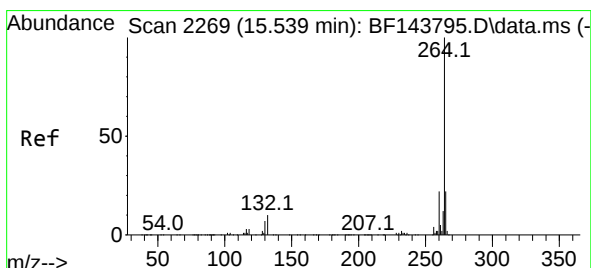
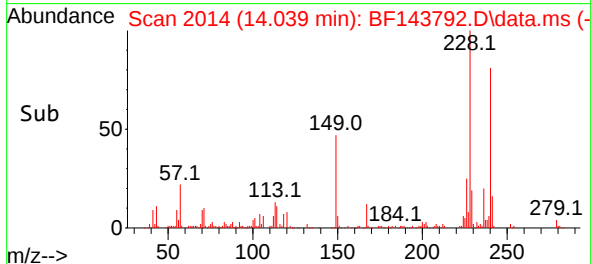
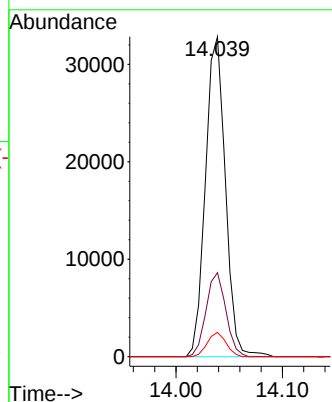
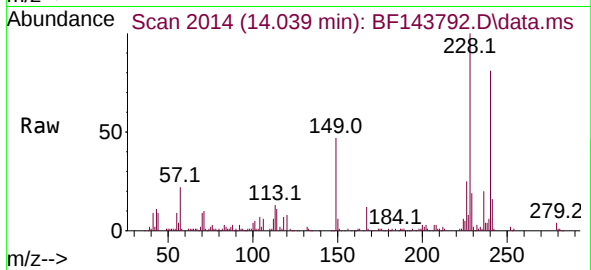




#84
Bis(2-ethylhexyl)phthalate
Concen: 4.295 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

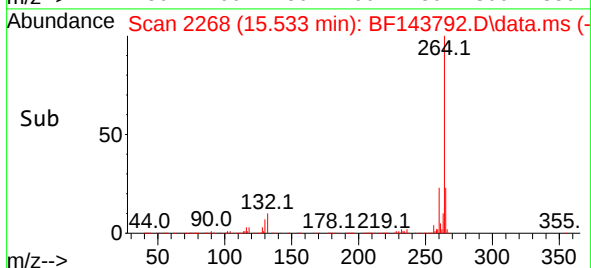
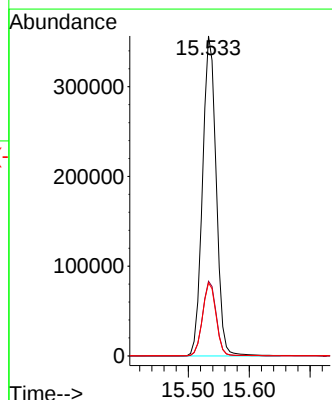
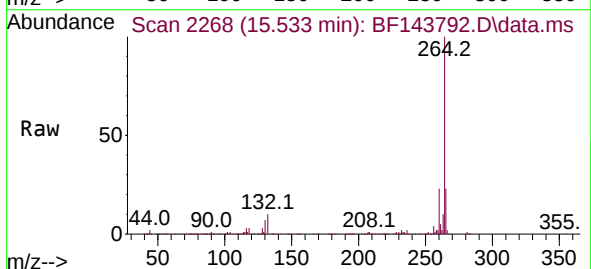
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

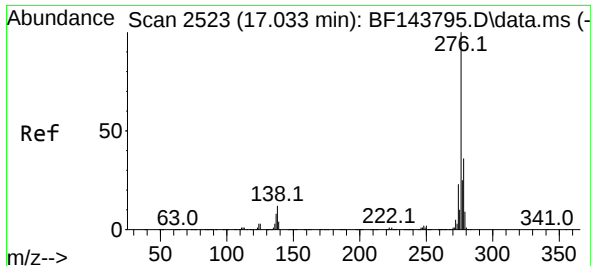
Tgt Ion:149 Resp: 42651
Ion Ratio Lower Upper
149 100
167 26.2 22.2 33.2
279 7.6 6.0 9.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:264 Resp: 555053
Ion Ratio Lower Upper
264 100
260 23.4 17.9 26.9
265 22.8 17.7 26.5

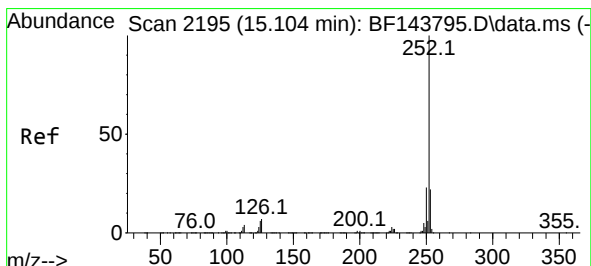
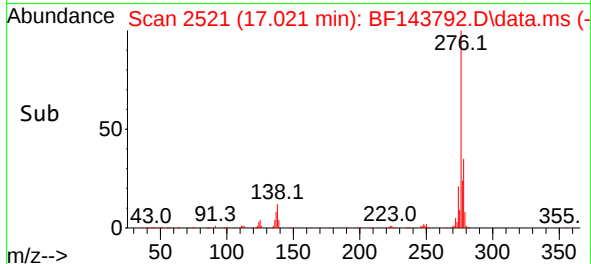
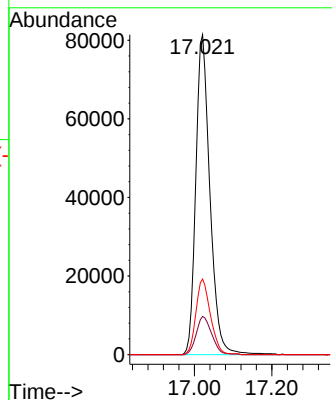
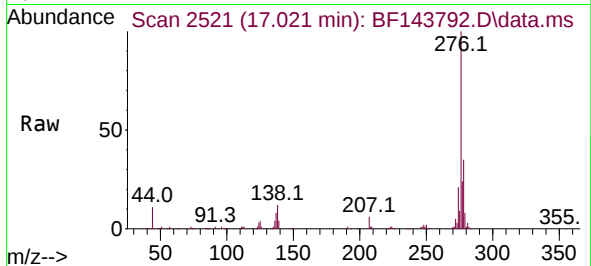




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 4.886 ng
 RT: 17.021 min Scan# 2194
 Delta R.T. -0.024 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

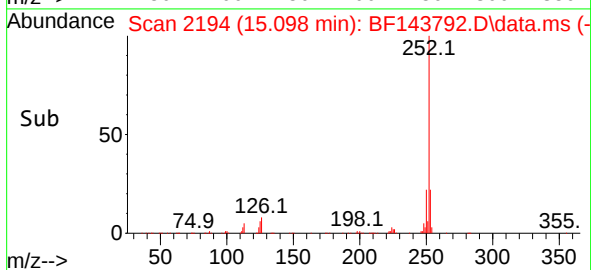
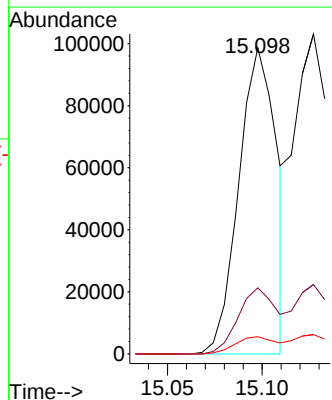
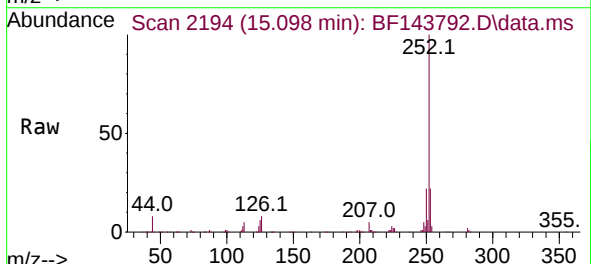
Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

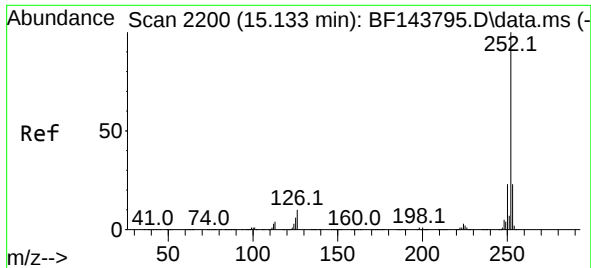
Tgt Ion:276 Resp: 205787
 Ion Ratio Lower Upper
 276 100
 138 13.0 10.6 15.8
 277 24.3 20.7 31.1



#88
 Benzo(b)fluoranthene
 Concen: 4.847 ng
 RT: 15.098 min Scan# 2194
 Delta R.T. -0.006 min
 Lab File: BF143792.D
 Acq: 23 Sep 2025 10:58

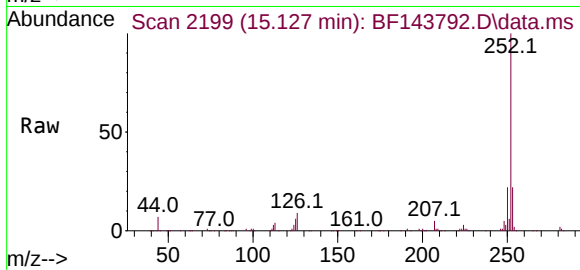
Tgt Ion:252 Resp: 137015
 Ion Ratio Lower Upper
 252 100
 253 21.6 17.8 26.8
 125 5.6 4.4 6.6



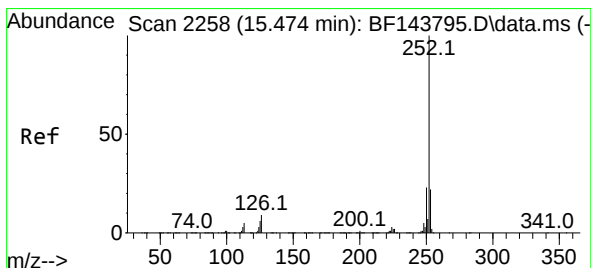
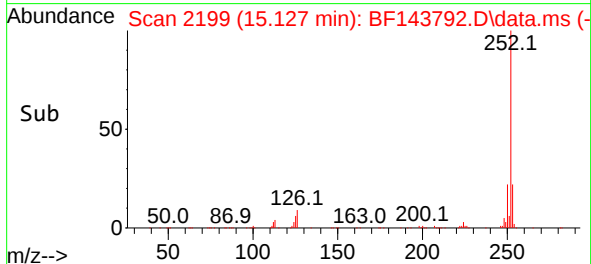
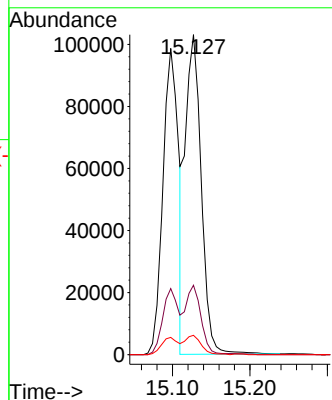


#89
Benzo(k)fluoranthene
Concen: 5.184 ng
RT: 15.127 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

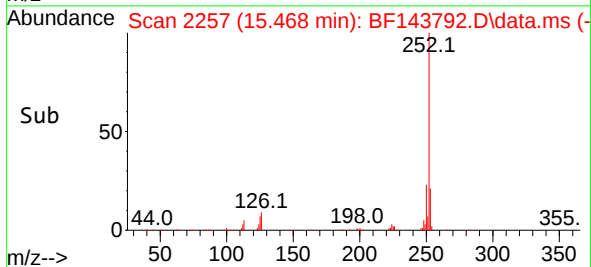
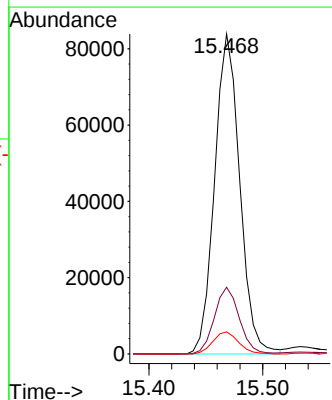
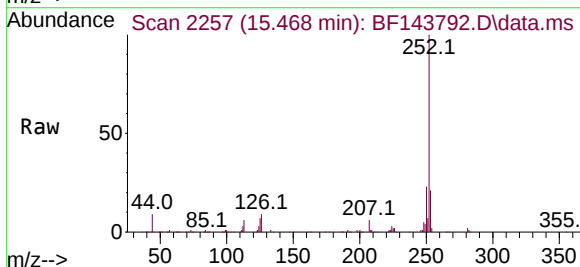


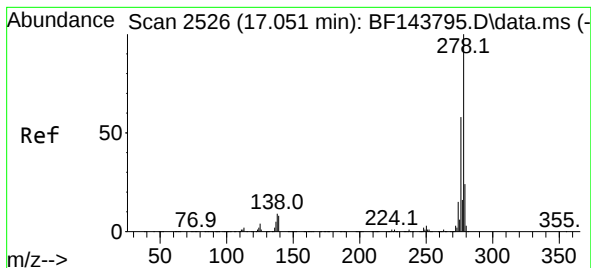
Tgt Ion:252 Resp: 147201
Ion Ratio Lower Upper
252 100
253 21.7 17.9 26.9
125 6.0 4.6 6.8



#90
Benzo(a)pyrene
Concen: 4.848 ng
RT: 15.468 min Scan# 2257
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:252 Resp: 128819
Ion Ratio Lower Upper
252 100
253 20.8 17.6 26.4
125 6.9 5.0 7.4





#91

Dibenzo(a,h)anthracene

Concen: 4.862 ng

RT: 17.039 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

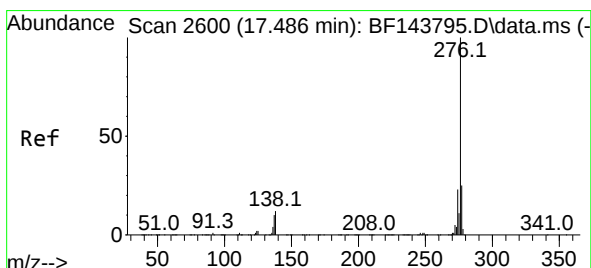
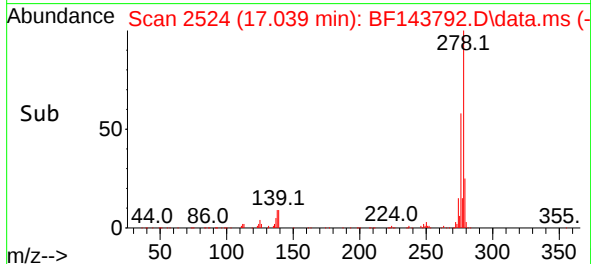
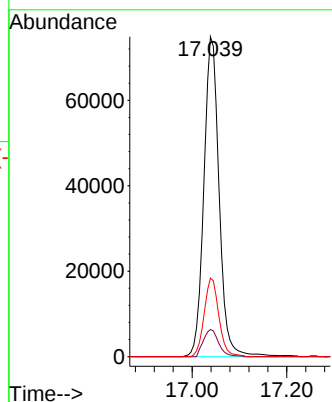
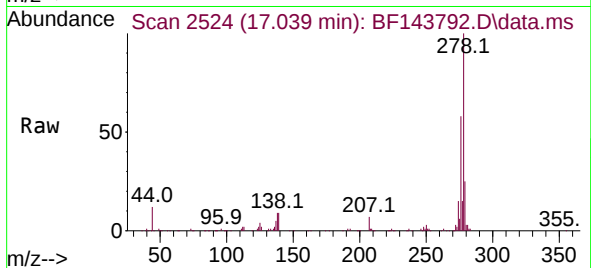
Tgt Ion:278 Resp: 167469

Ion Ratio Lower Upper

278 100

139 8.5 6.7 10.1

279 24.5 19.3 28.9



#92

Benzo(g,h,i)perylene

Concen: 4.741 ng

RT: 17.468 min Scan# 2597

Delta R.T. -0.035 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion:276 Resp: 157425

Ion Ratio Lower Upper

276 100

277 24.1 19.6 29.4

138 11.5 9.2 13.8

