

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072225\
 Data File : BF143199.D
 Acq On : 22 Jul 2025 20:20
 Operator : RC/JU
 Sample : Q2646-03MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FRAC TANKMS

Quant Time: Jul 23 04:52:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.986	152	106919	20.000	ng	0.02
21) Naphthalene-d8	8.263	136	403875	20.000	ng	0.02
39) Acenaphthene-d10	10.010	164	174208	20.000	ng	0.01
64) Phenanthrene-d10	11.492	188	273501	20.000	ng	0.00
76) Chrysene-d12	14.151	240	256851	20.000	ng	0.03
86) Perylene-d12	15.651	264	185286	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.792	112	552475	81.770	ng	0.21
7) Phenol-d6	6.675	99	546469	64.258	ng	0.09
23) Nitrobenzene-d5	7.545	82	553643	68.332	ng	0.02
42) 2,4,6-Tribromophenol	10.798	330	178262	99.053	ng	0.01
45) 2-Fluorobiphenyl	9.328	172	935127	73.412	ng	0.00
79) Terphenyl-d14	13.092	244	806959	46.752	ng	0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.881	88	118206	36.974	ng	# 42
4) n-Nitrosodimethylamine	3.581	42	171005	39.915	ng	# 56
6) Aniline	6.722	93	173337	14.625	ng	# 55
8) 2-Chlorophenol	6.798	128	164249	23.192	ng	91
9) Benzaldehyde	6.557	77	142775	22.389	ng	98
10) Phenol	6.686	94	244774	26.420	ng	96
11) bis(2-Chloroethyl)ether	6.722	93	173337	24.436	ng	95
12) 1,3-Dichlorobenzene	7.004	146	276221	35.903	ng	99
13) 1,4-Dichlorobenzene	7.004	146	276221	35.652	ng	99
14) 1,2-Dichlorobenzene	7.157	146	214736	29.140	ng	98
15) Benzyl Alcohol	7.257	79	593018	91.326	ng	# 84
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1335060	101.457	ng	89
17) 2-Methylphenol	7.269	107	469533	78.849	ng	# 60
18) Hexachloroethane	7.492	117	99536	37.110	ng	97
19) n-Nitroso-di-n-propyla...	7.410	70	203526	37.303	ng	# 92
20) 3+4-Methylphenols	7.416	107	54713	7.573	ng	# 1
22) Acetophenone	7.404	105	375876	39.310	ng	# 96
24) Nitrobenzene	7.569	77	262484	34.748	ng	99
25) Isophorone	7.881	82	524966	36.703	ng	99
26) 2-Nitrophenol	7.881	139	139283	42.485	ng	95
27) 2,4-Dimethylphenol	7.957	122	227380	34.026	ng	100
28) bis(2-Chloroethoxy)met...	8.022	93	320993	37.430	ng	97
29) 2,4-Dichlorophenol	8.157	162	185645	32.941	ng	97
30) 1,2,4-Trichlorobenzene	8.204	180	216579	35.572	ng	100
31) Naphthalene	8.286	128	751387	37.776	ng	100
32) Benzoic acid	8.181	122	269197	68.976	ng	97
33) 4-Chloroaniline	8.286	127	98017	12.069	ng	# 37
34) Hexachlorobutadiene	8.398	225	138458	37.227	ng	99
35) Caprolactam	8.675	113	12959	7.610	ng	# 1
36) 4-Chloro-3-methylphenol	8.816	107	200347	32.708	ng	98
37) 2-Methylnaphthalene	8.975	142	443408	36.634	ng	99
38) 1-Methylnaphthalene	9.075	142	427480	34.298	ng	99
40) 1,2,4,5-Tetrachloroben...	9.139	216	206106	40.979	ng	99
41) Hexachlorocyclopentadiene	9.128	237	176682	53.988	ng	99
43) 2,4,6-Trichlorophenol	9.251	196	126910	36.459	ng	99
44) 2,4,5-Trichlorophenol	9.298	196	134795	38.713	ng	# 93

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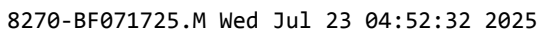
Instrument :
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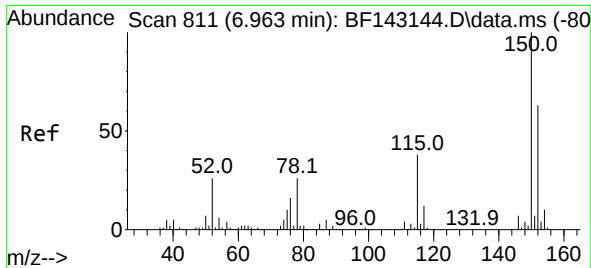
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.428	154	563893	41.488	ng	100
47) 2-Chloronaphthalene	9.457	162	400436	39.817	ng	100
48) 2-Nitroaniline	9.545	65	132031	41.864	ng	95
49) Acenaphthylene	9.869	152	634232	37.632	ng	100
50) Dimethylphthalate	9.727	163	450497	39.673	ng	99
51) 2,6-Dinitrotoluene	9.780	165	95799	41.471	ng	98
52) Acenaphthene	10.039	154	398628	40.018	ng	99
53) 3-Nitroaniline	9.963	138	6891	2.550	ng	# 88
54) 2,4-Dinitrophenol	10.051	184	55306	55.089	ng	# 65
55) Dibenzofuran	10.210	168	554525	37.495	ng	99
56) 4-Nitrophenol	10.110	139	162828	80.702	ng	96
57) 2,4-Dinitrotoluene	10.180	165	116431	40.174	ng	# 99
58) Fluorene	10.557	166	428198	38.577	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.286	232	116644	40.441	ng	92
60) Diethylphthalate	10.422	149	506582	45.135	ng	100
61) 4-Chlorophenyl-phenyle...	10.545	204	209454	37.896	ng	98
62) 4-Nitroaniline	10.563	138	22748	9.823	ng	92
63) Azobenzene	10.704	77	401256	34.302	ng	97
65) 4,6-Dinitro-2-methylph...	10.586	198	41238	30.931	ng	82
66) n-Nitrosodiphenylamine	10.657	169	336118	34.900	ng	100
67) 4-Bromophenyl-phenylether	11.033	248	123252	37.814	ng	97
68) Hexachlorobenzene	11.104	284	126673	37.183	ng	98
69) Atrazine	11.227	200	90049	33.915	ng	99
70) Pentachlorophenol	11.298	266	182738	91.211	ng	98
71) Phenanthrene	11.516	178	580774	39.993	ng	100
72) Anthracene	11.569	178	584315	39.452	ng	100
73) Carbazole	11.721	167	546164	42.231	ng	99
74) Di-n-butylphthalate	12.051	149	548715	37.497	ng	100
75) Fluoranthene	12.704	202	630057	47.268	ng	99
78) Pyrene	12.939	202	219163	9.998	ng	97
80) Butylbenzylphthalate	13.568	149	295074	43.959	ng	97
81) Benzo(a)anthracene	14.139	228	677602	39.404	ng	99
83) Chrysene	14.174	228	615094	39.784	ng	99
84) Bis(2-ethylhexyl)phtha...	14.121	149	446694	43.966	ng	100
85) Di-n-octyl phthalate	14.727	149	745738	40.493	ng	99
87) Indeno(1,2,3-cd)pyrene	17.180	276	348870	26.702	ng	98
88) Benzo(b)fluoranthene	15.204	252	565057	49.920	ng	99
89) Benzo(k)fluoranthene	15.239	252	492257	48.735	ng	100
90) Benzo(a)pyrene	15.586	252	429835	41.215	ng	99
91) Dibenzo(a,h)anthracene	17.198	278	285570	26.854	ng	99
92) Benzo(g,h,i)perylene	17.645	276	277134	26.941	ng	98

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

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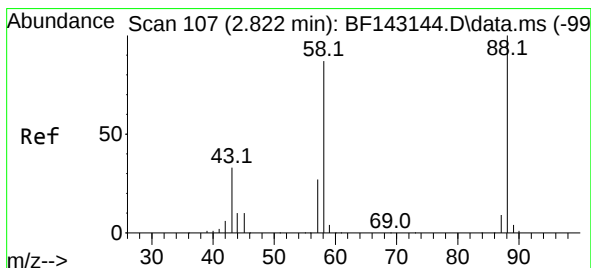
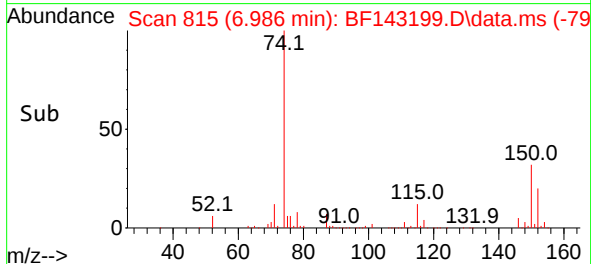
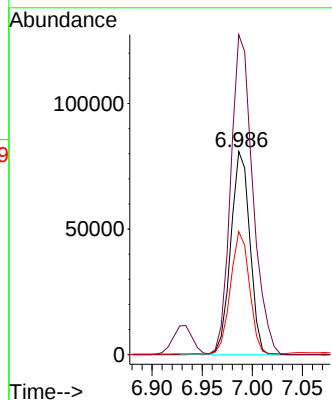
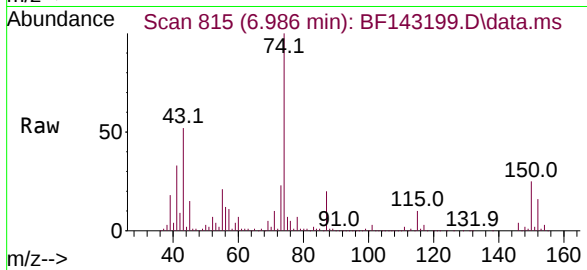




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.986 min Scan# 81
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

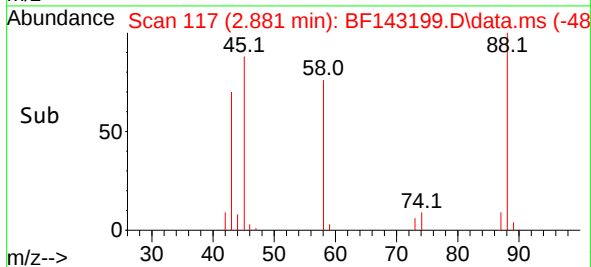
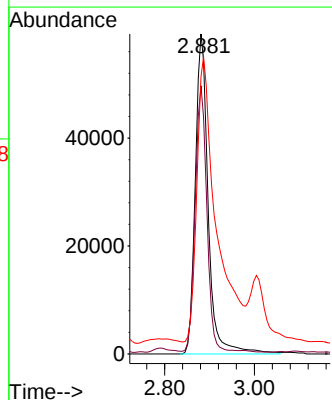
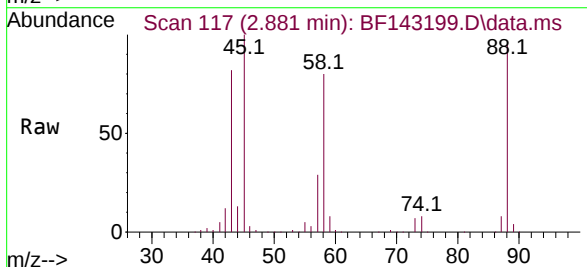
Instrument :
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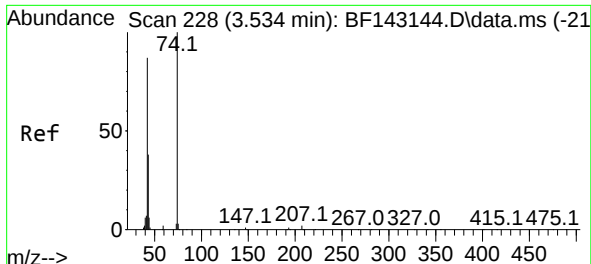
Tgt Ion:152 Resp: 106919
Ion Ratio Lower Upper
152 100
150 157.6 128.2 192.4
115 60.6 47.9 71.9



#2
1,4-Dioxane
Concen: 36.974 ng
RT: 2.881 min Scan# 117
Delta R.T. 0.059 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 88 Resp: 118206
Ion Ratio Lower Upper
88 100
58 77.1 70.2 105.2
43 136.0 27.1 40.7#

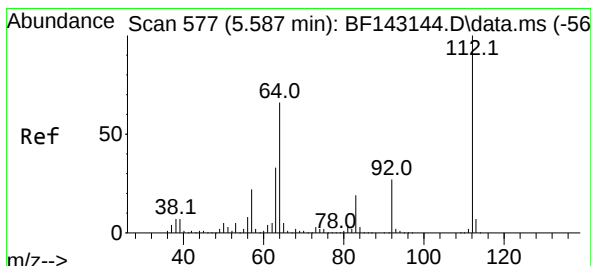
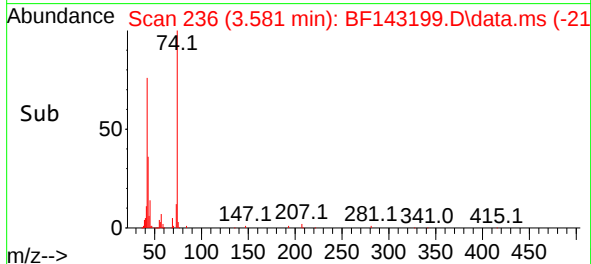
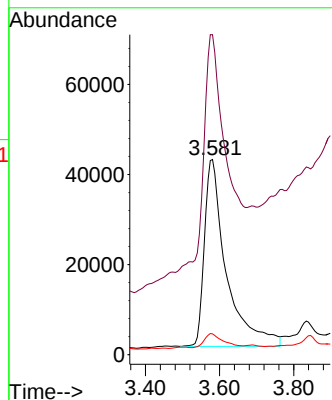
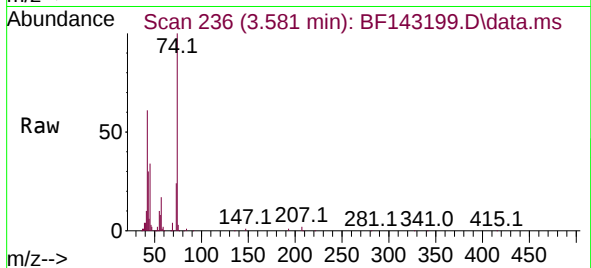




#4
n-Nitrosodimethylamine
Concen: 39.915 ng
RT: 3.581 min Scan# 231
Delta R.T. 0.047 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

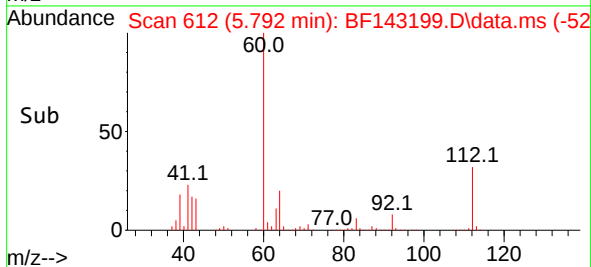
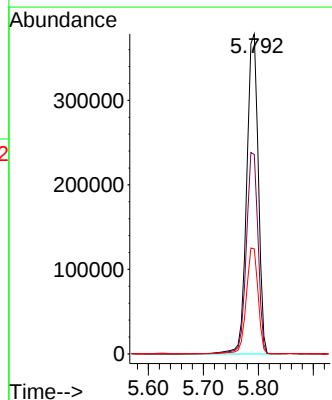
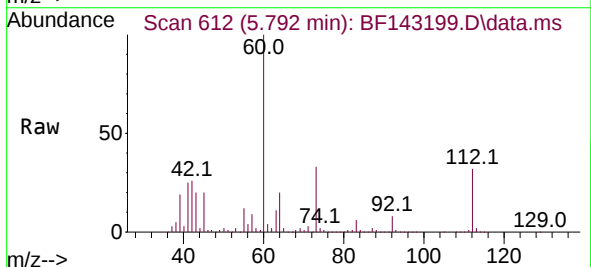
Instrument :
BNA_F
ClientSampleId :
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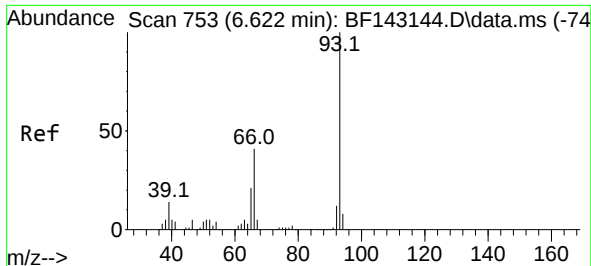
Tgt Ion: 42 Resp: 171005
Ion Ratio Lower Upper
42 100
74 164.0 91.7 137.5#
44 10.6 5.6 8.4#



#5
2-Fluorophenol
Concen: 81.770 ng
RT: 5.792 min Scan# 612
Delta R.T. 0.206 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 112 Resp: 552475
Ion Ratio Lower Upper
112 100
64 62.3 53.1 79.7
63 32.8 26.6 40.0





#6
 Aniline
 Concen: 14.625 ng
 RT: 6.722 min Scan# 71
 Delta R.T. 0.100 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20

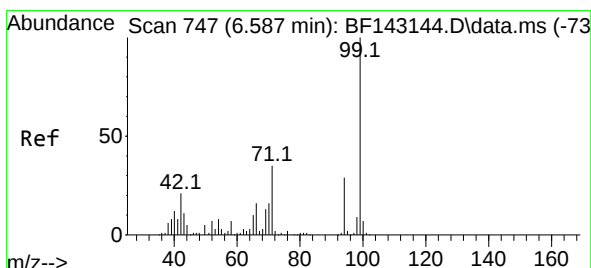
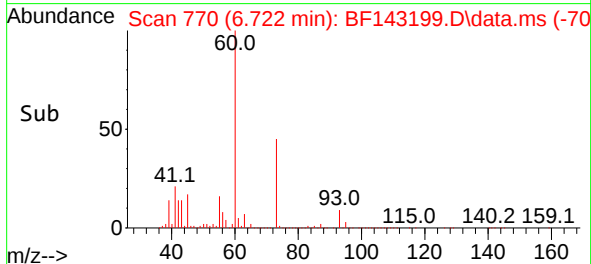
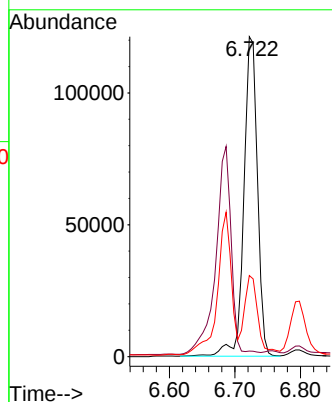
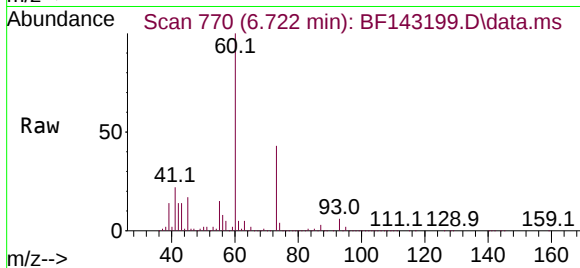
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ClientSampleId :

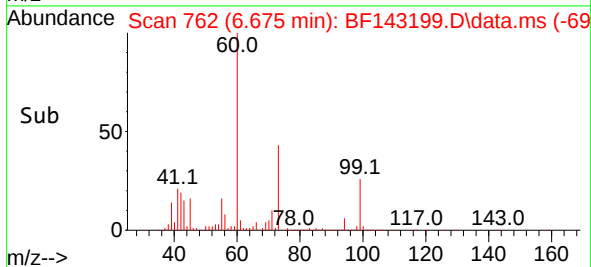
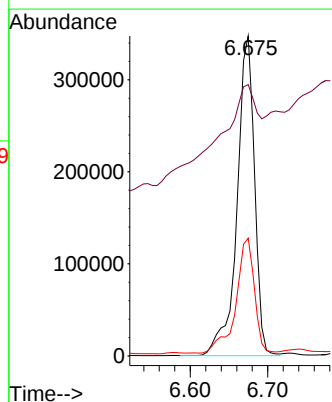
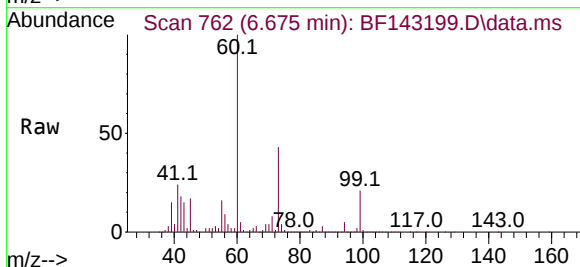
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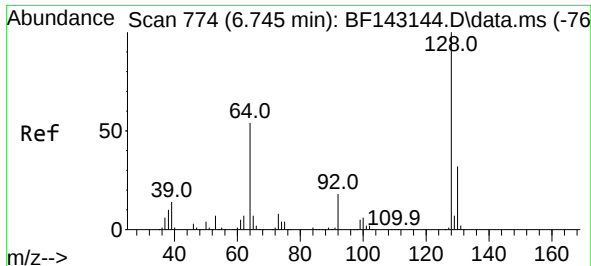
Tgt Ion: 93 Resp: 173337
 Ion Ratio Lower Upper
 93 100
 66 1.7 33.2 49.8#
 65 25.3 16.9 25.3



#7
 Phenol-d6
 Concen: 64.258 ng
 RT: 6.675 min Scan# 762
 Delta R.T. 0.088 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20

Tgt Ion: 99 Resp: 546469
 Ion Ratio Lower Upper
 99 100
 42 84.8 17.0 25.6#
 71 36.8 27.7 41.5





#8
2-Chlorophenol
Concen: 23.192 ng
RT: 6.798 min Scan# 718
Delta R.T. 0.053 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

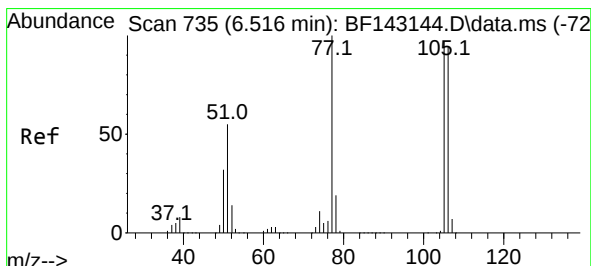
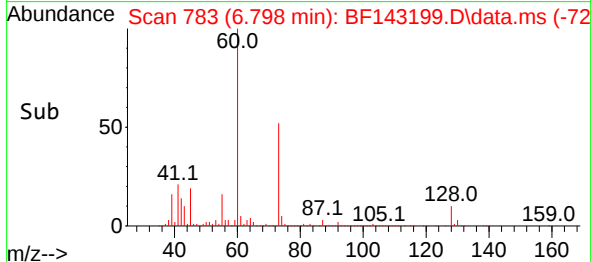
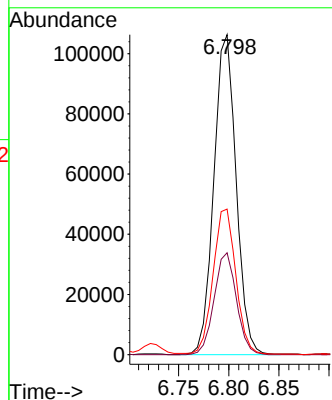
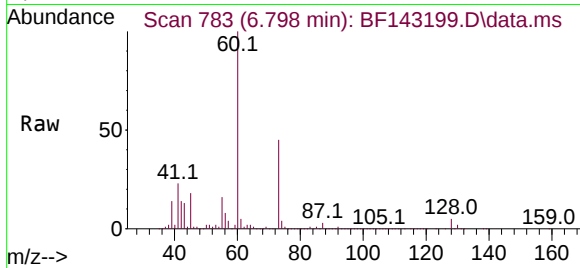
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ClientSampleId :

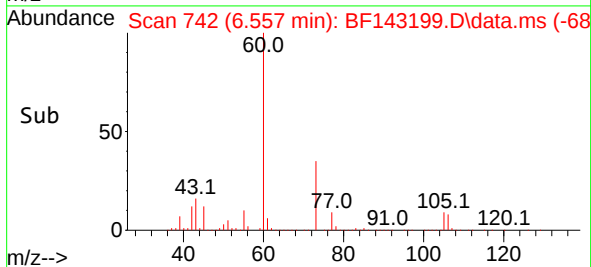
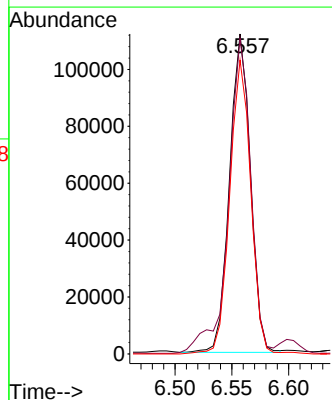
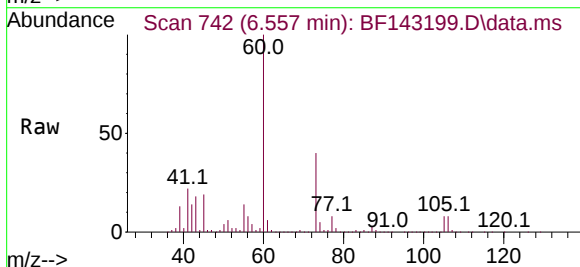
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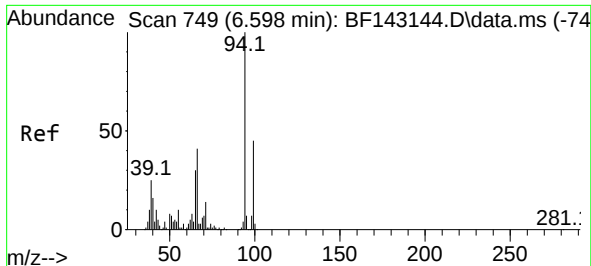
Tgt Ion:128 Resp: 164249
Ion Ratio Lower Upper
128 100
130 31.8 12.3 52.3
64 45.5 35.9 75.9



#9
Benzaldehyde
Concen: 22.389 ng
RT: 6.557 min Scan# 742
Delta R.T. 0.041 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 77 Resp: 142775
Ion Ratio Lower Upper
77 100
105 98.6 76.8 116.8
106 91.8 74.4 114.4





#10

Phenol

Concen: 26.420 ng

RT: 6.686 min Scan# 70

Delta R.T. 0.088 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

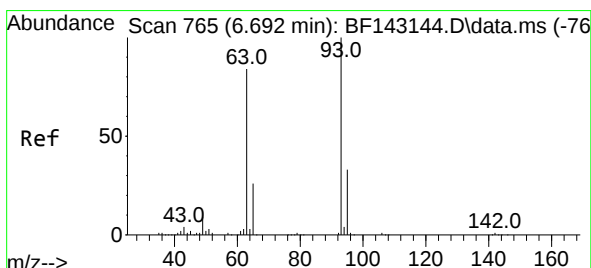
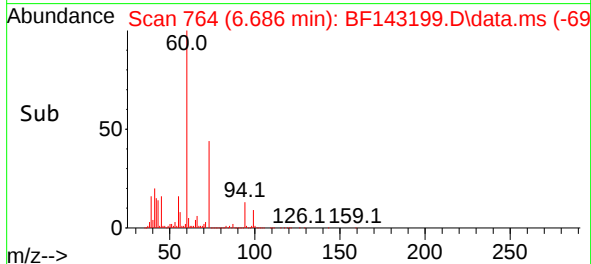
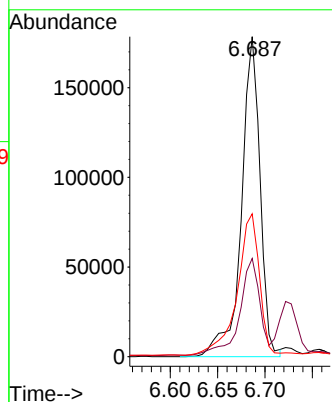
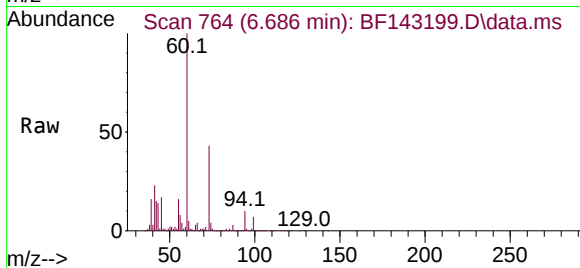
BNA_F

ClientSampleId :

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Tgt Ion: 94 Resp: 244774

Ion	Ratio	Lower	Upper
94	100		
65	30.7	10.0	50.0
66	44.6	20.8	60.8



#11

bis(2-Chloroethyl)ether

Concen: 24.436 ng

RT: 6.722 min Scan# 770

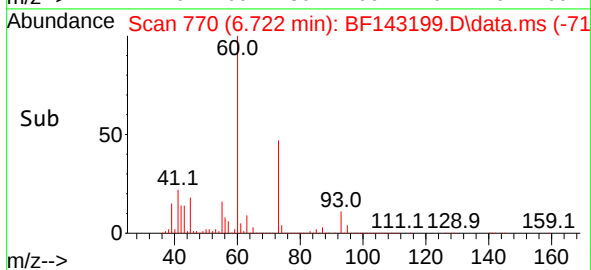
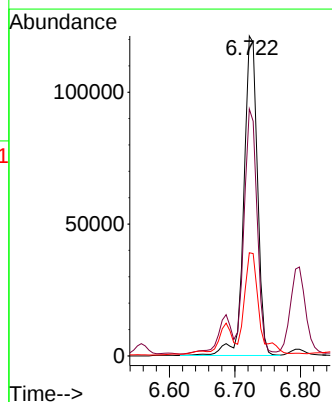
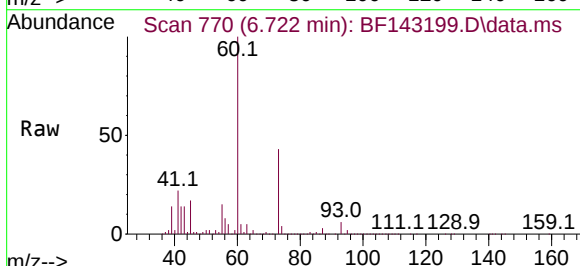
Delta R.T. 0.029 min

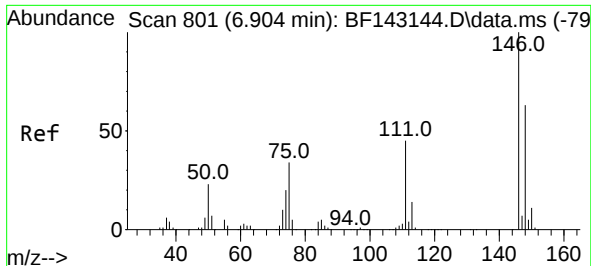
Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Tgt Ion: 93 Resp: 173337

Ion	Ratio	Lower	Upper
93	100		
63	77.2	63.4	103.4
95	32.2	12.4	52.4





#12

1,3-Dichlorobenzene

Concen: 35.903 ng

RT: 7.004 min Scan# 818

Delta R.T. 0.100 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

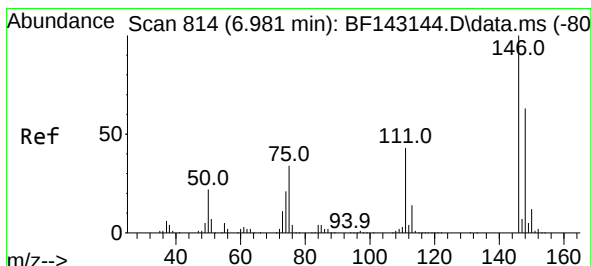
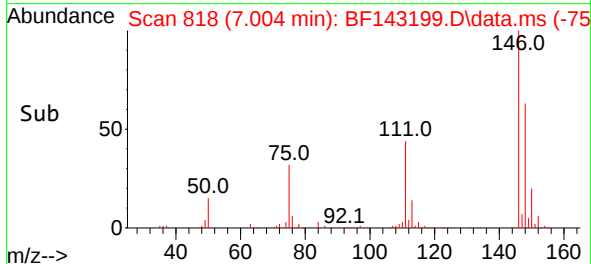
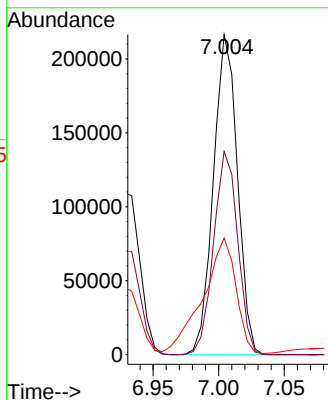
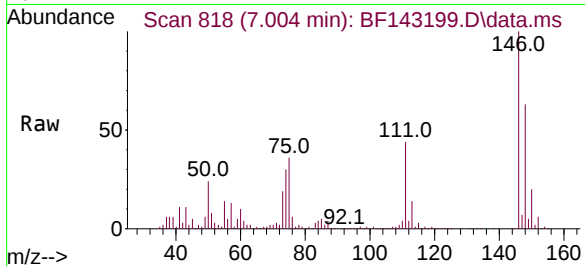
Tgt Ion:146 Resp: 276221

Ion Ratio Lower Upper

146 100

148 63.5 50.6 76.0

75 36.4 27.4 41.2



#13

1,4-Dichlorobenzene

Concen: 35.652 ng

RT: 7.004 min Scan# 818

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

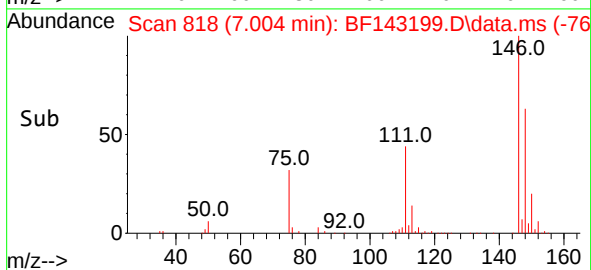
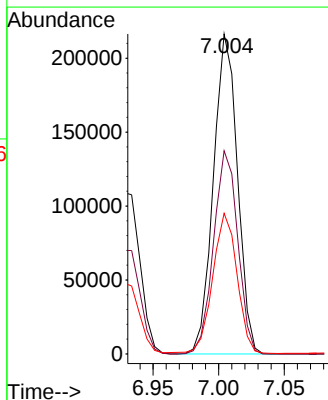
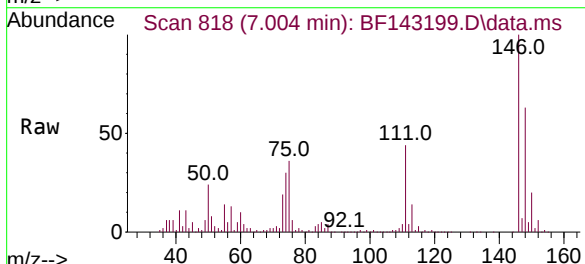
Tgt Ion:146 Resp: 276221

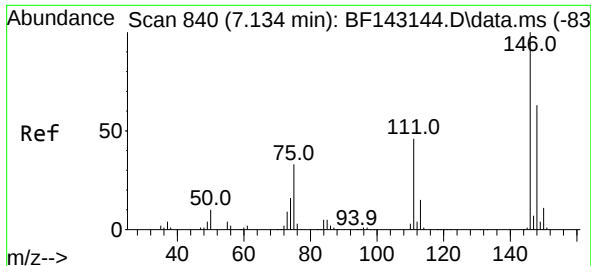
Ion Ratio Lower Upper

146 100

148 63.5 50.3 75.5

111 43.9 34.4 51.6





#14

1,2-Dichlorobenzene

Concen: 29.140 ng

RT: 7.157 min Scan# 84

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

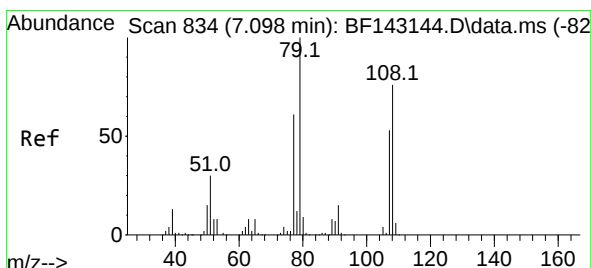
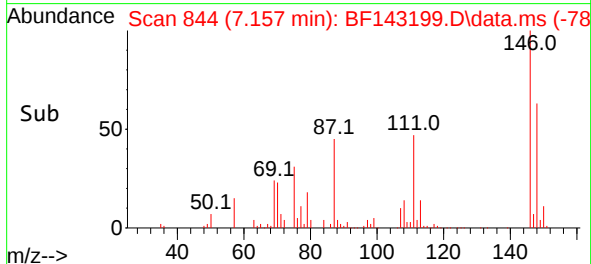
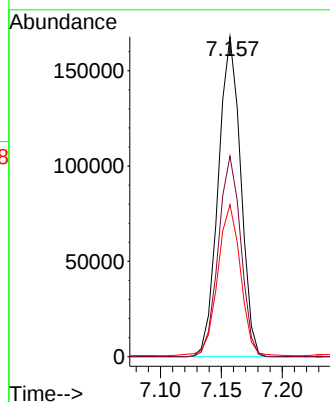
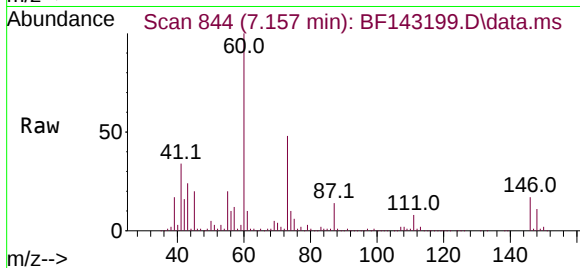
Tgt Ion:146 Resp: 214736

Ion Ratio Lower Upper

146 100

148 62.6 50.7 76.1

111 47.5 36.6 54.8



#15

Benzyl Alcohol

Concen: 91.326 ng

RT: 7.257 min Scan# 861

Delta R.T. 0.159 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

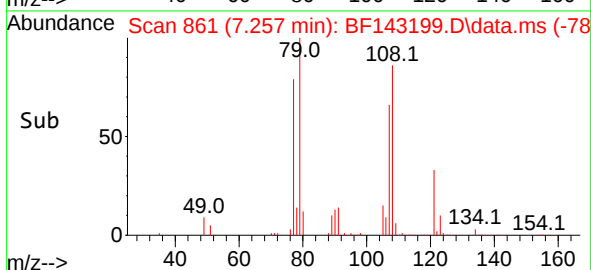
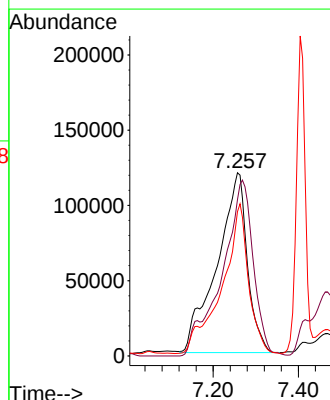
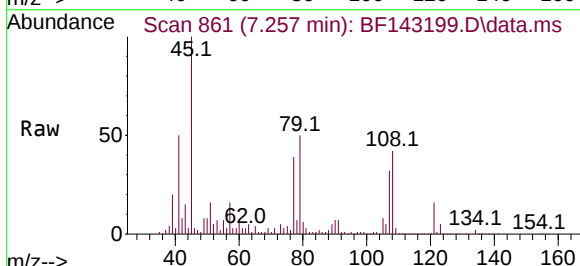
Tgt Ion: 79 Resp: 593018

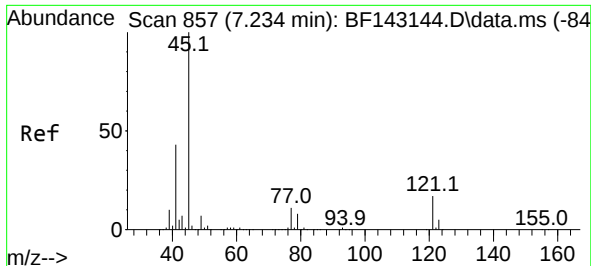
Ion Ratio Lower Upper

79 100

108 85.3 61.1 91.7

77 78.8 48.9 73.3#

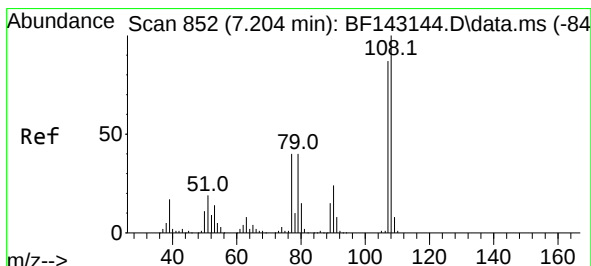
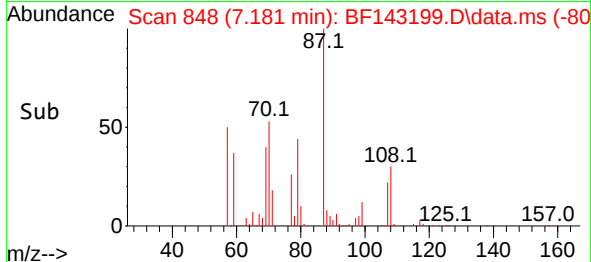
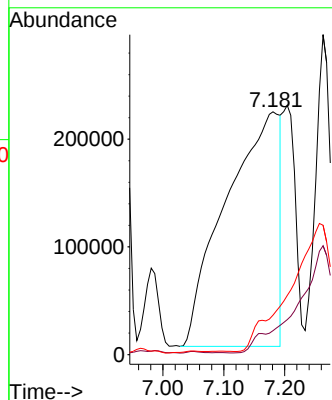
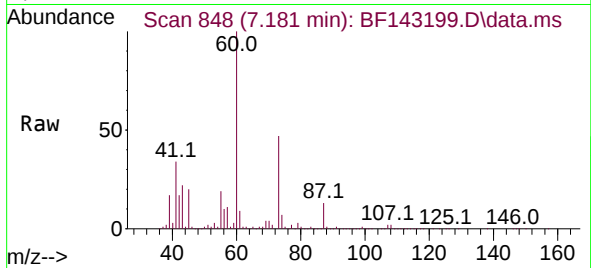




#16
2,2'-oxybis(1-Chloropropane)
Concen: 101.457 ng
RT: 7.181 min Scan# 84
Delta R.T. -0.053 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

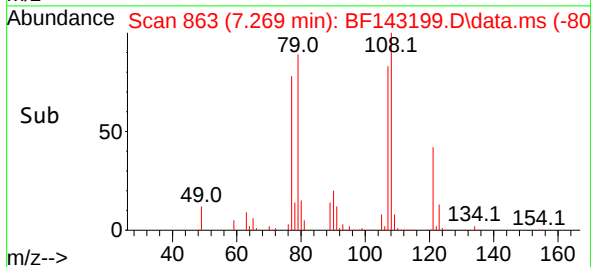
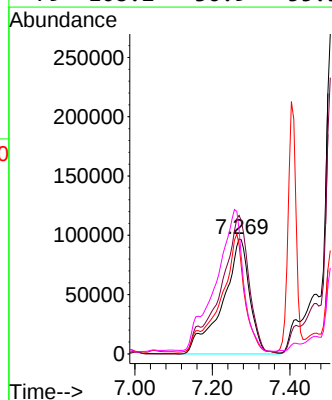
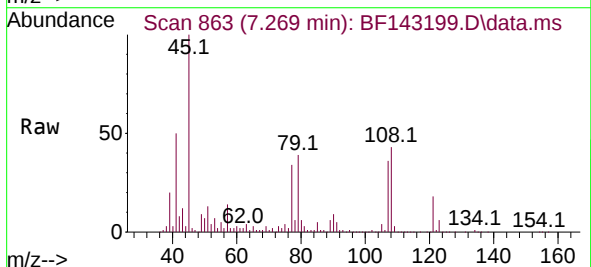
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

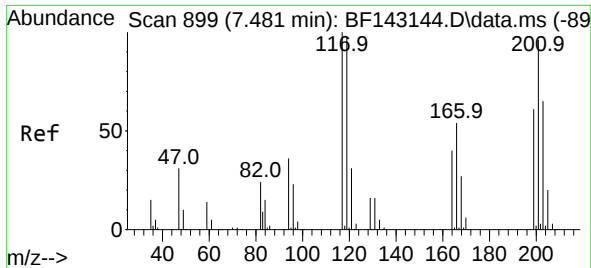
Tgt Ion: 45 Resp: 1335060
Ion Ratio Lower Upper
45 100
77 9.8 0.0 31.2
79 16.3 0.0 28.5



#17
2-Methylphenol
Concen: 78.849 ng
RT: 7.269 min Scan# 863
Delta R.T. 0.065 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:107 Resp: 469533
Ion Ratio Lower Upper
107 100
108 120.5 91.8 137.6
77 95.1 37.0 55.6#
79 108.2 36.9 55.3#

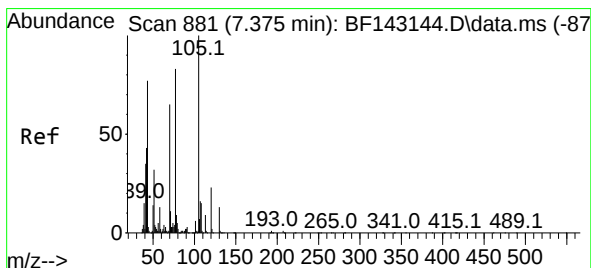
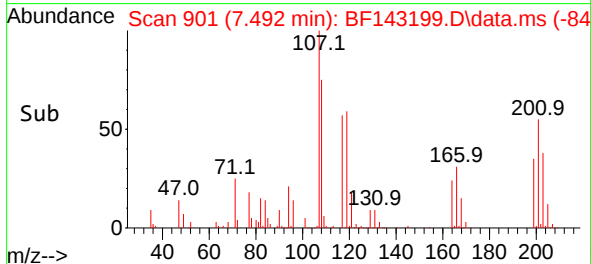
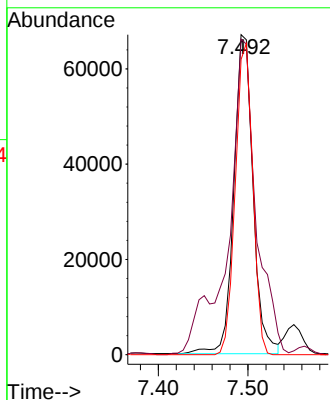
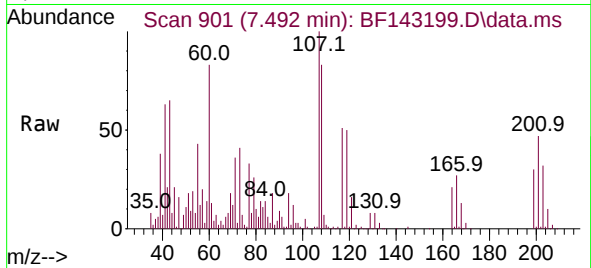




#18
Hexachloroethane
Concen: 37.110 ng
RT: 7.492 min Scan# 901
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

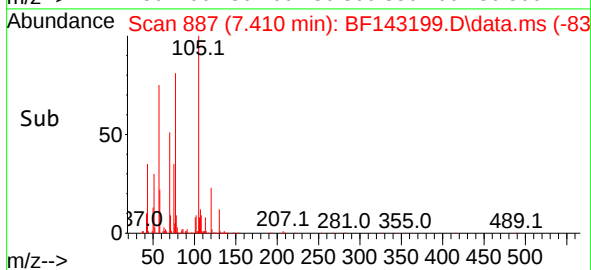
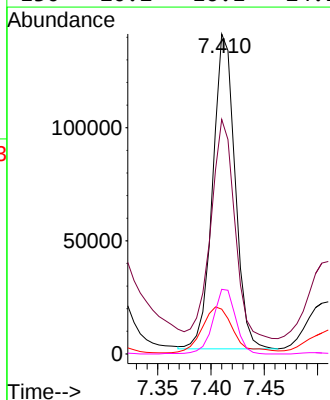
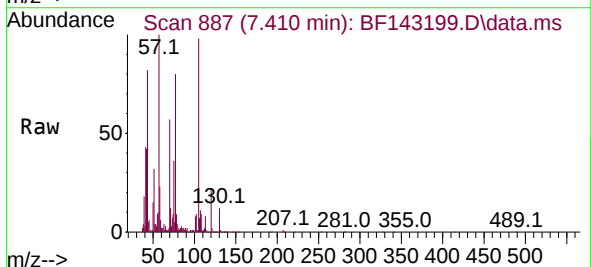
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

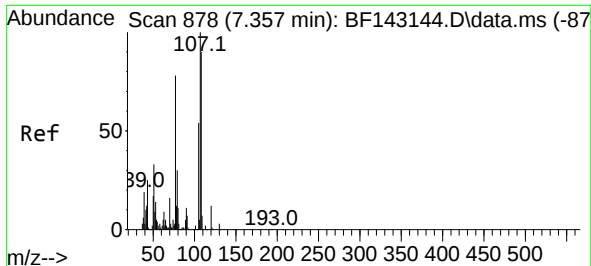
Tgt Ion:117 Resp: 99536
Ion Ratio Lower Upper
117 100
119 98.6 77.8 116.8
201 92.2 77.0 115.4



#19
n-Nitroso-di-n-propylamine
Concen: 37.303 ng
RT: 7.410 min Scan# 887
Delta R.T. 0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 70 Resp: 203526
Ion Ratio Lower Upper
70 100
42 73.3 52.5 78.7
101 14.0 7.6 11.4#
130 20.2 16.1 24.1

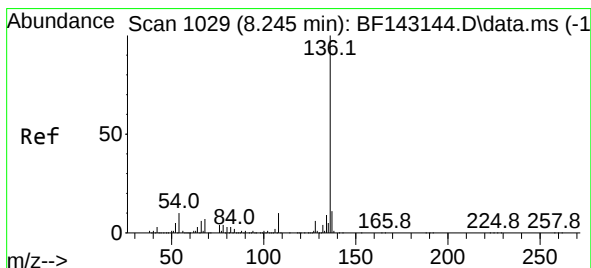
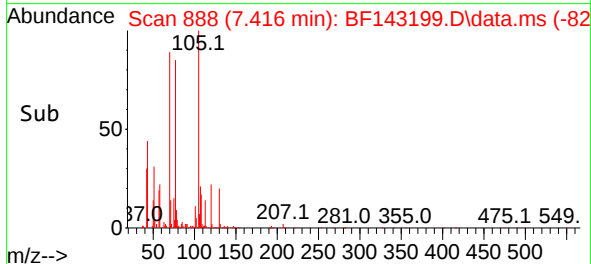
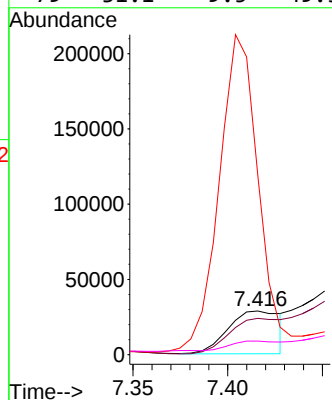
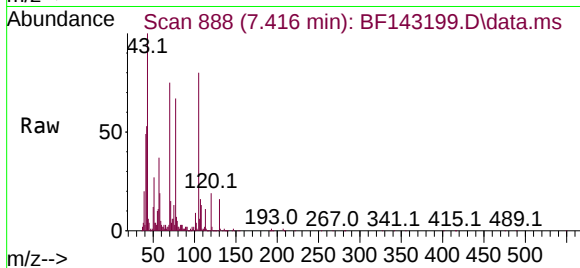




#20
3+4-Methylphenols
Concen: 7.573 ng
RT: 7.416 min Scan# 88
Delta R.T. 0.059 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

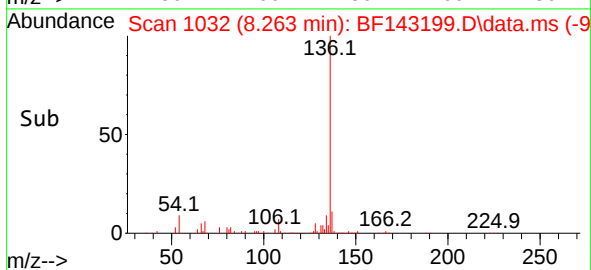
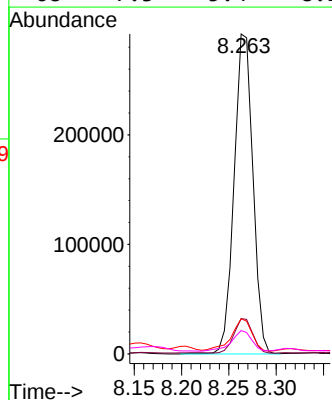
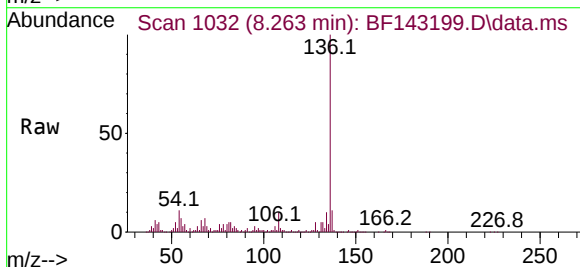
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

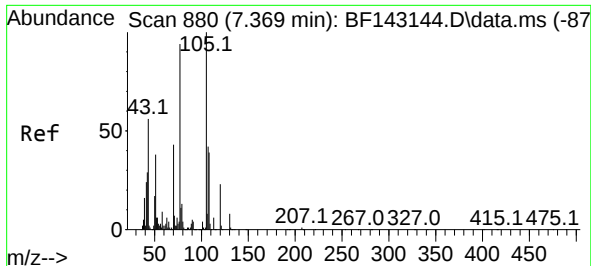
Tgt Ion:107	Resp:	54713
Ion	Ratio	Lower Upper
107	100	
108	83.0	70.0 110.0
77	411.2	57.8 97.8#
79	31.1	9.5 49.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.263 min Scan# 1032
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:136	Resp:	403875
Ion	Ratio	Lower Upper
136	100	
137	11.0	8.6 13.0
54	11.0	8.2 12.2
68	7.3	5.4 8.2

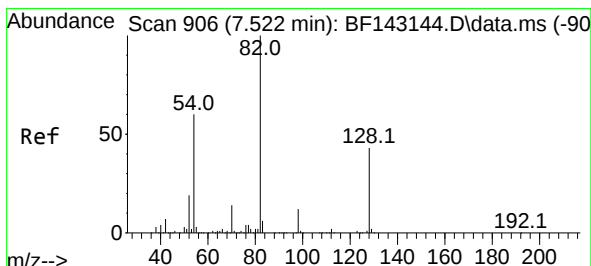
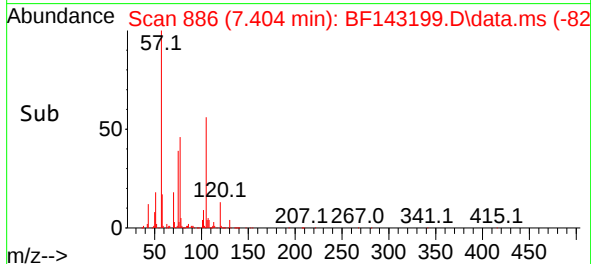
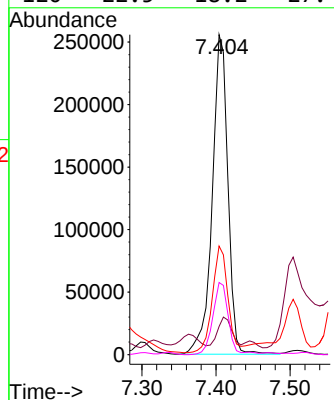
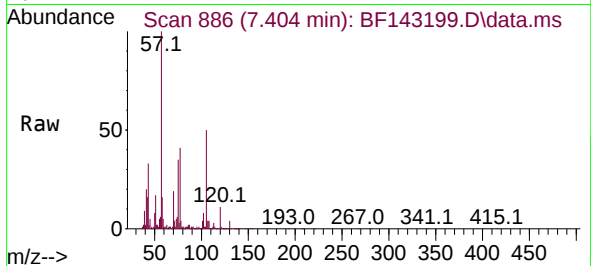




#22
Acetophenone
Concen: 39.310 ng
RT: 7.404 min Scan# 880
Delta R.T. 0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

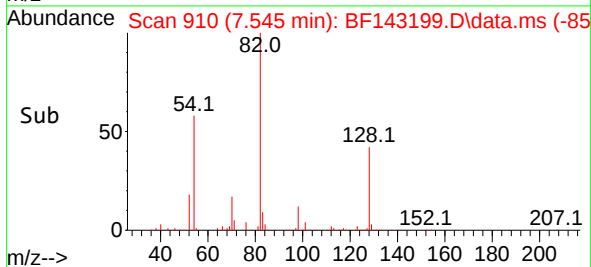
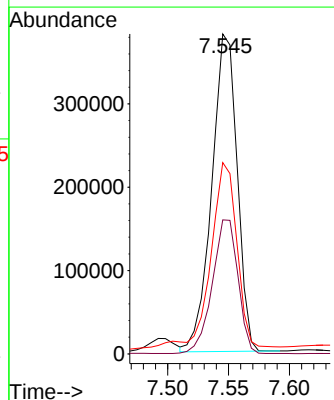
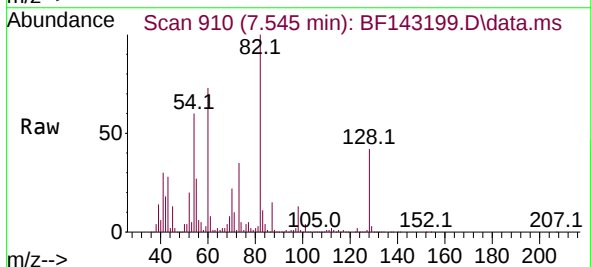
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

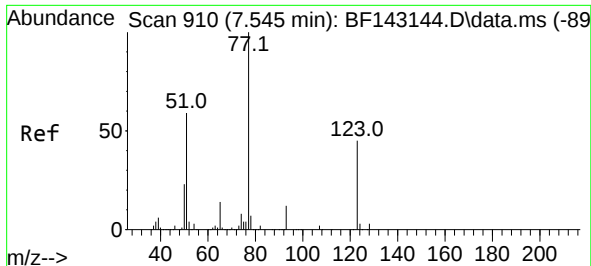
Tgt Ion:105 Resp: 375876
Ion Ratio Lower Upper
105 100
71 8.8 5.8 8.6#
51 33.9 30.2 45.2
120 22.5 18.2 27.4



#23
Nitrobenzene-d5
Concen: 68.332 ng
RT: 7.545 min Scan# 910
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 82 Resp: 553643
Ion Ratio Lower Upper
82 100
128 41.9 33.6 50.4
54 59.8 47.1 70.7

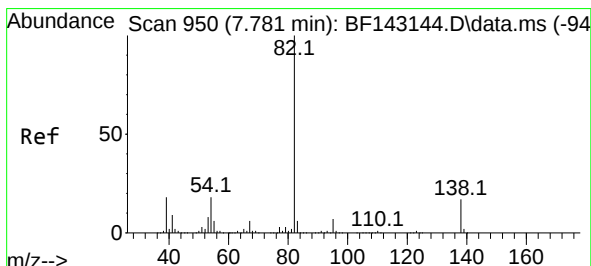
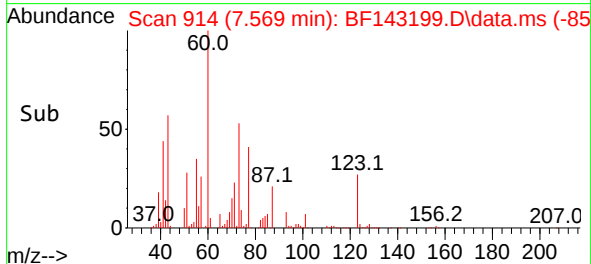
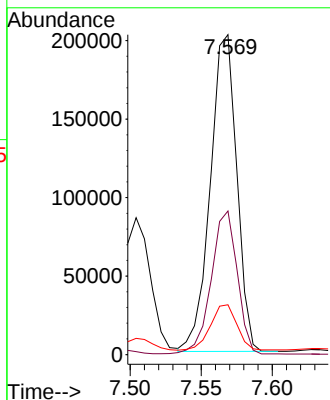
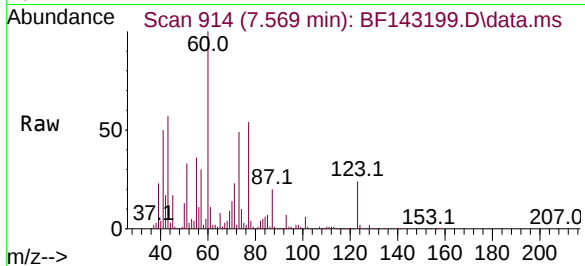




#24
Nitrobenzene
Concen: 34.748 ng
RT: 7.569 min Scan# 914
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

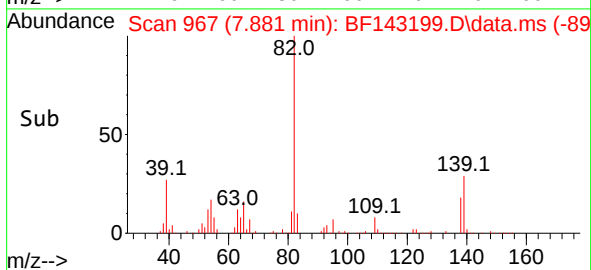
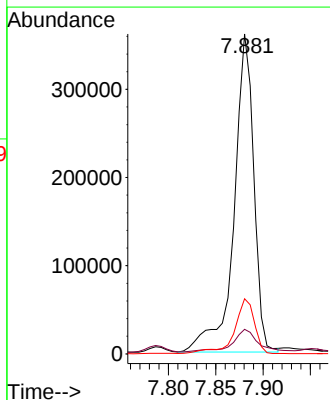
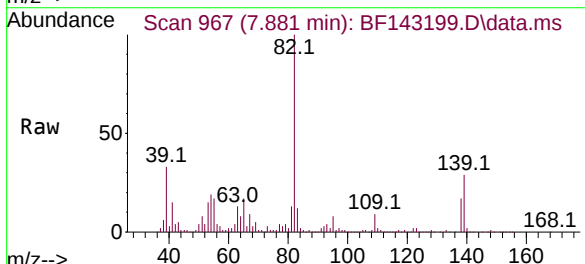
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

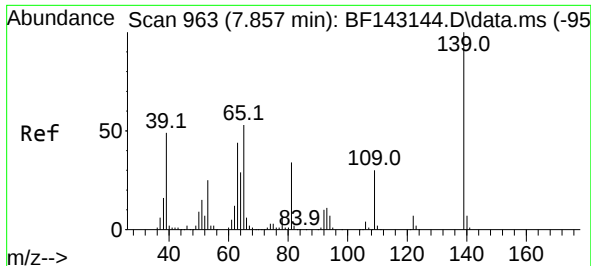
Tgt Ion: 77 Resp: 262484
Ion Ratio Lower Upper
77 100
123 44.9 36.1 54.1
65 15.6 11.4 17.2



#25
Isophorone
Concen: 36.703 ng
RT: 7.881 min Scan# 967
Delta R.T. 0.100 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 82 Resp: 524966
Ion Ratio Lower Upper
82 100
95 7.7 5.5 8.3
138 17.2 13.8 20.8

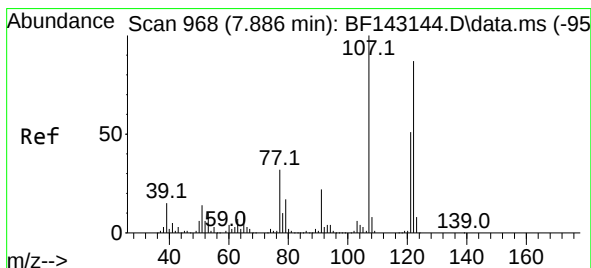
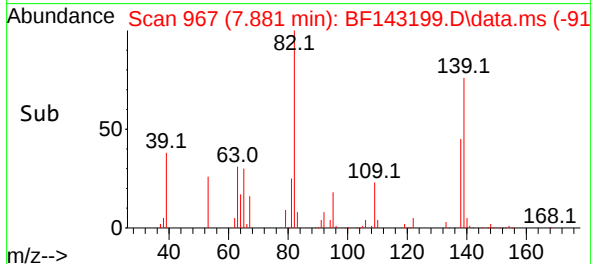
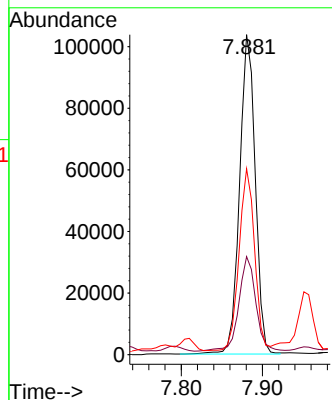
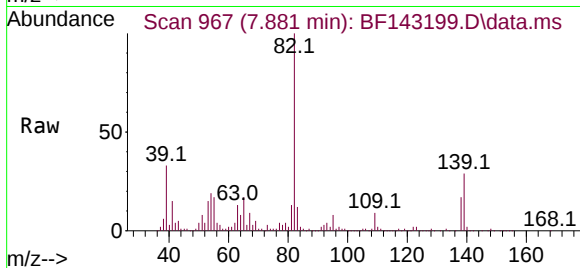




#26
2-Nitrophenol
Concen: 42.485 ng
RT: 7.881 min Scan# 90
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

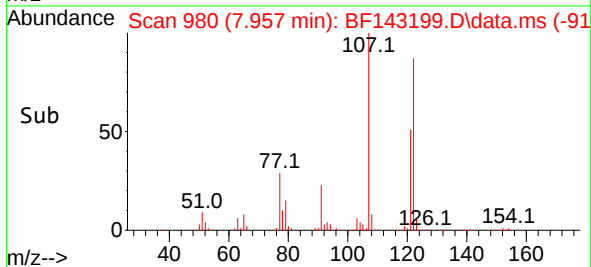
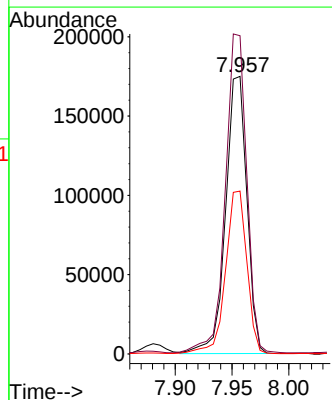
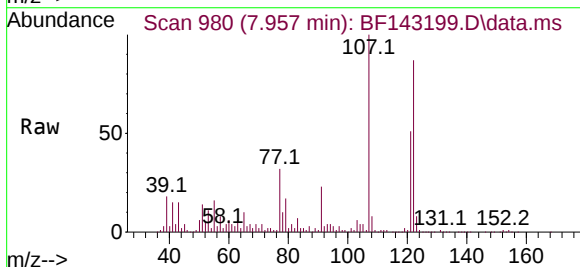
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

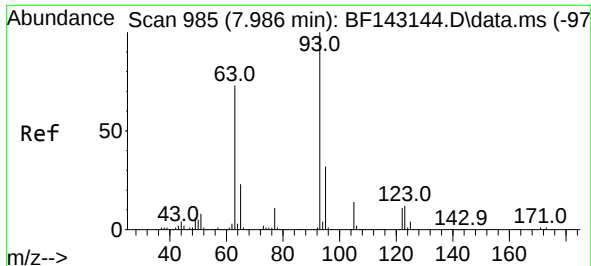
Tgt Ion:139 Resp: 139283
Ion Ratio Lower Upper
139 100
109 30.6 23.6 35.4
65 58.1 42.6 64.0



#27
2,4-Dimethylphenol
Concen: 34.026 ng
RT: 7.957 min Scan# 980
Delta R.T. 0.071 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:122 Resp: 227380
Ion Ratio Lower Upper
122 100
107 114.6 91.8 137.6
121 58.7 46.3 69.5

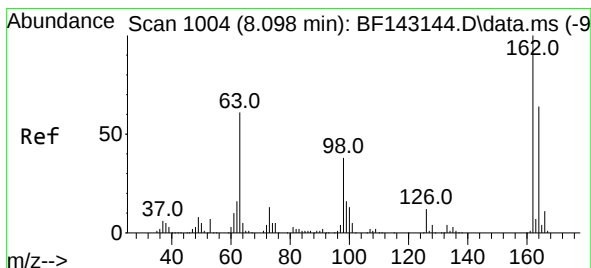
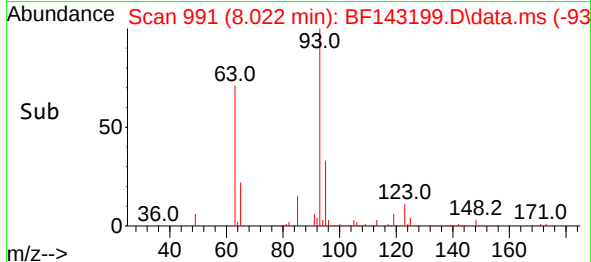
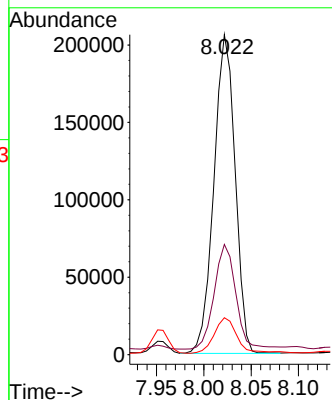
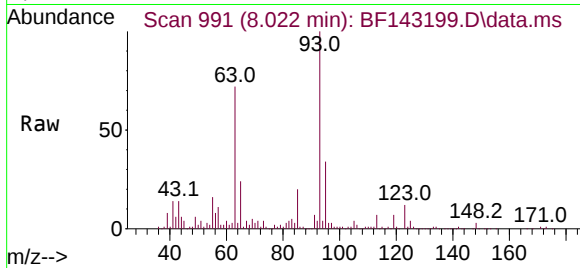




#28
bis(2-Chloroethoxy)methane
Concen: 37.430 ng
RT: 8.022 min Scan# 991
Delta R.T. 0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

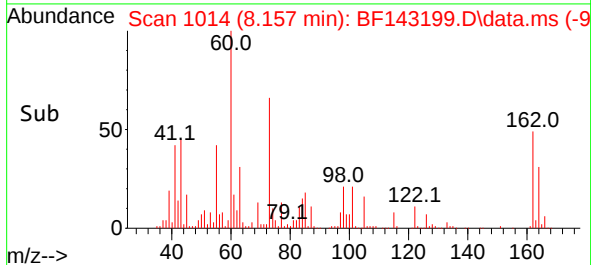
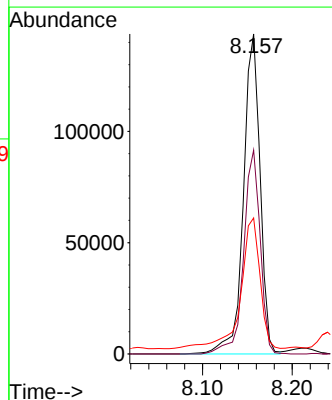
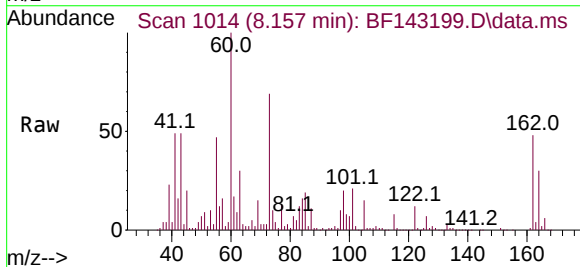
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

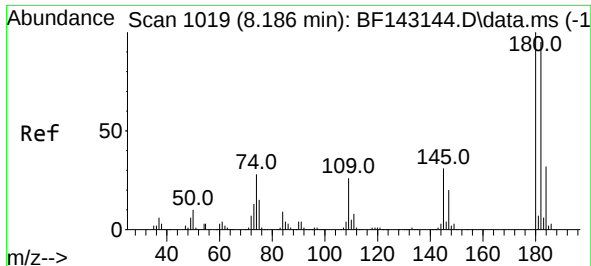
Tgt Ion: 93 Resp: 320993
Ion Ratio Lower Upper
93 100
95 34.4 25.8 38.6
123 11.5 9.7 14.5



#29
2,4-Dichlorophenol
Concen: 32.941 ng
RT: 8.157 min Scan# 1014
Delta R.T. 0.059 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 162 Resp: 185645
Ion Ratio Lower Upper
162 100
164 63.7 44.2 84.2
98 42.5 17.9 57.9

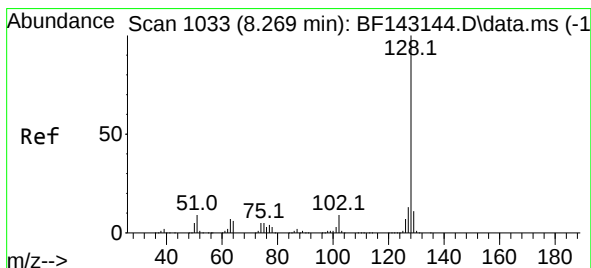
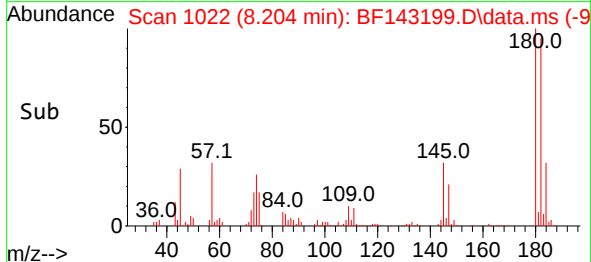
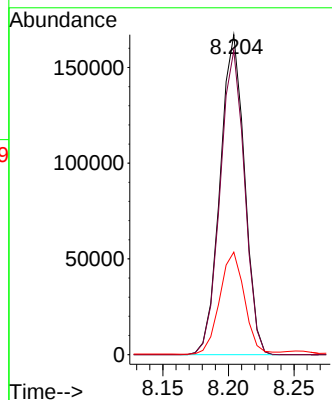
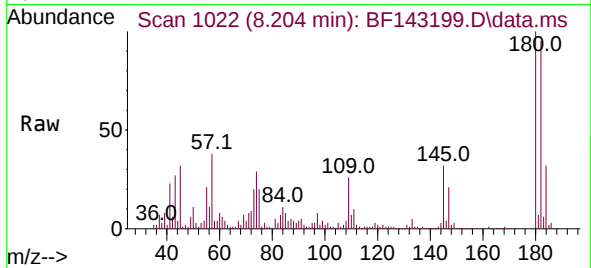




#30
1,2,4-Trichlorobenzene
Concen: 35.572 ng
RT: 8.204 min Scan# 10
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

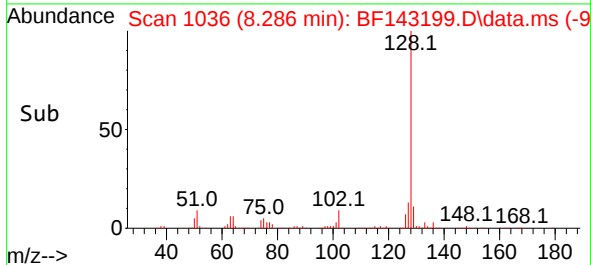
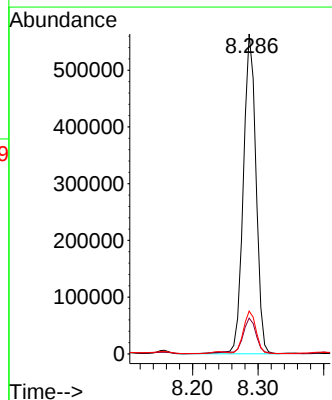
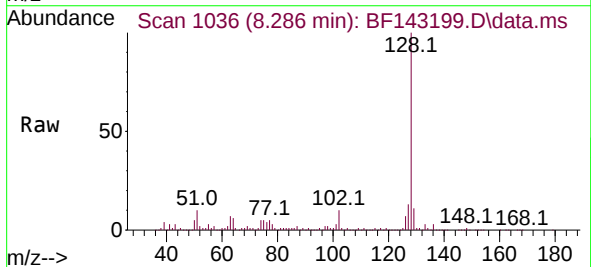
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

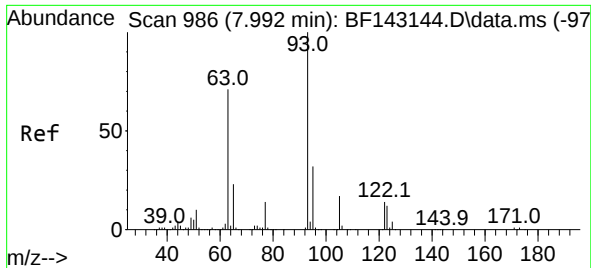
Tgt Ion:180 Resp: 216579
Ion Ratio Lower Upper
180 100
182 95.1 76.2 114.2
145 32.0 25.0 37.6



#31
Naphthalene
Concen: 37.776 ng
RT: 8.286 min Scan# 1036
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:128 Resp: 751387
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.4
127 13.4 10.6 16.0

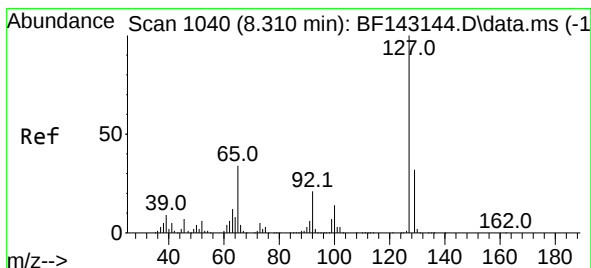
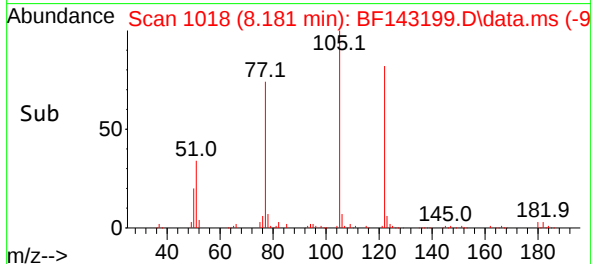
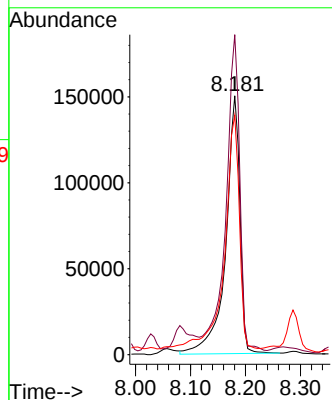
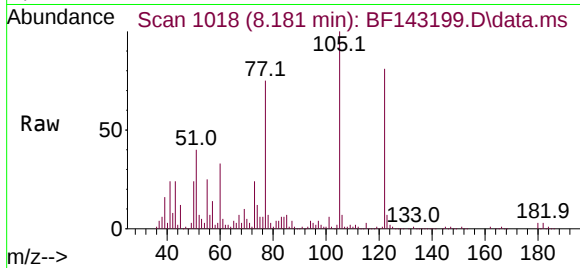




#32
Benzoic acid
Concen: 68.976 ng
RT: 8.181 min Scan# 1018
Delta R.T. 0.189 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

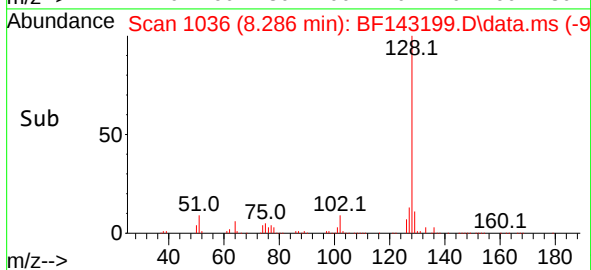
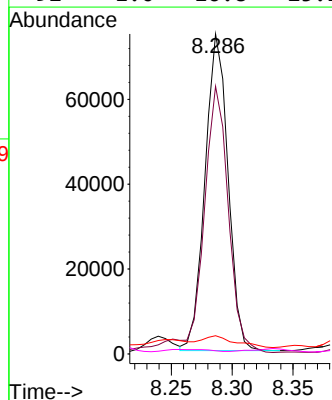
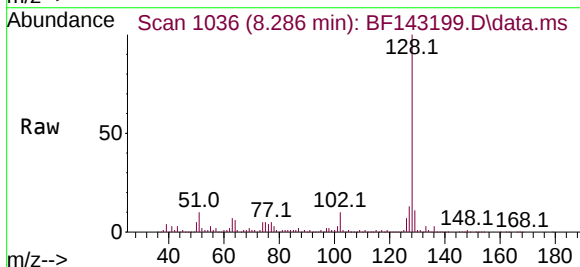
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

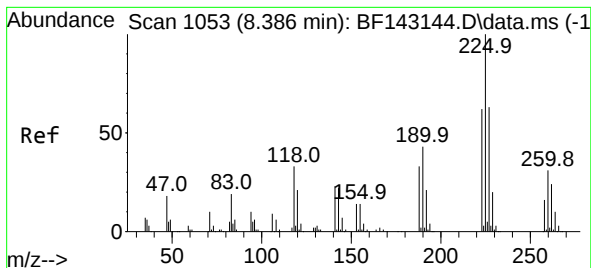
Tgt Ion:122 Resp: 269197
Ion Ratio Lower Upper
122 100
105 123.6 104.8 144.8
77 92.5 77.6 117.6



#33
4-Chloroaniline
Concen: 12.069 ng
RT: 8.286 min Scan# 1036
Delta R.T. -0.024 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:127 Resp: 98017
Ion Ratio Lower Upper
127 100
129 83.6 26.0 39.0#
65 5.7 27.4 41.2#
92 1.0 16.8 25.2#





#34

Hexachlorobutadiene

Concen: 37.227 ng

RT: 8.398 min Scan# 1053

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

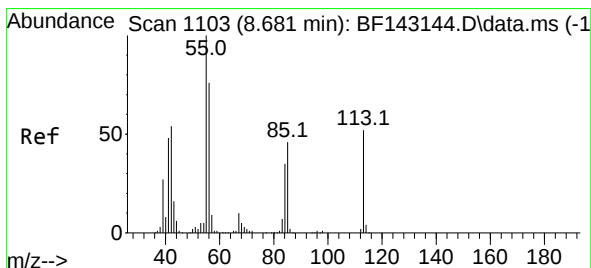
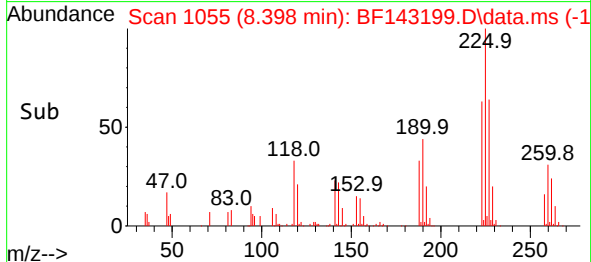
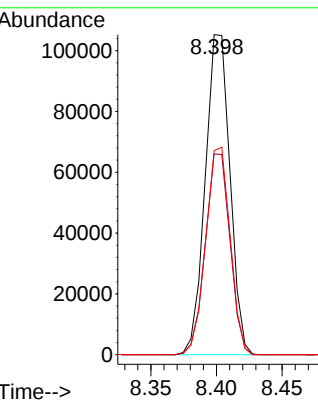
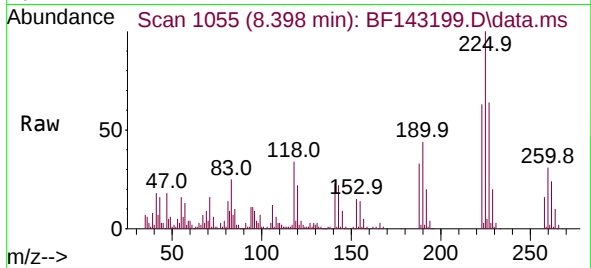
Tgt Ion:225 Resp: 138458

Ion Ratio Lower Upper

225 100

223 62.7 49.8 74.6

227 63.7 50.2 75.4



#35

Caprolactam

Concen: 7.610 ng

RT: 8.675 min Scan# 1102

Delta R.T. -0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

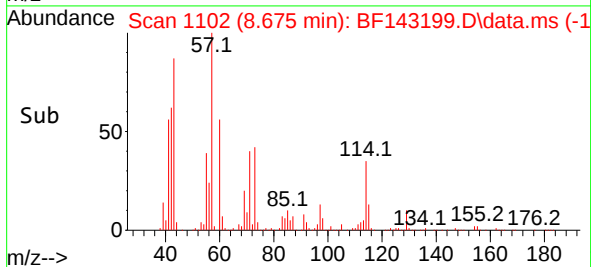
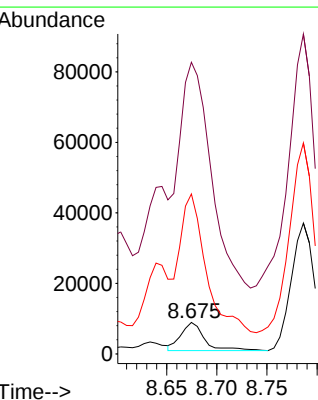
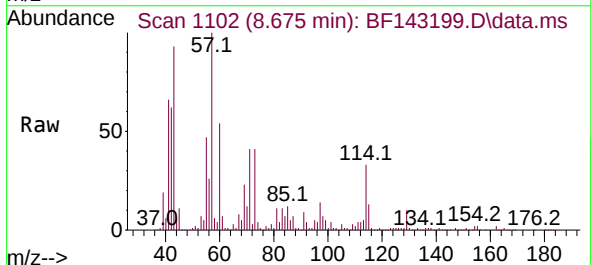
Tgt Ion:113 Resp: 12959

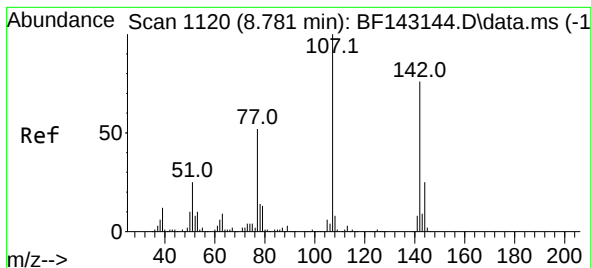
Ion Ratio Lower Upper

113 100

55 929.0 174.0 214.0#

56 509.5 126.6 166.6#

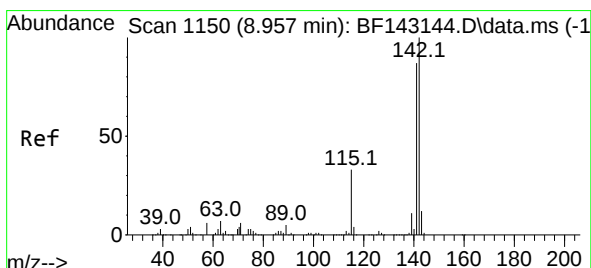
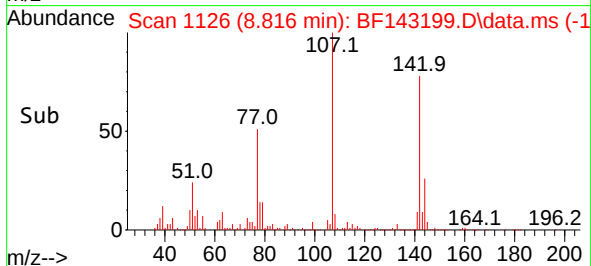
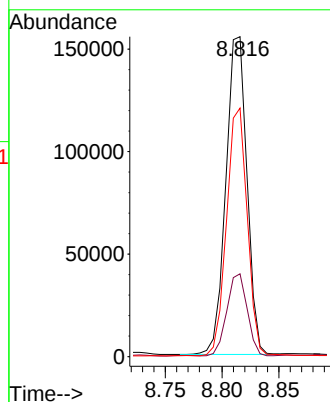
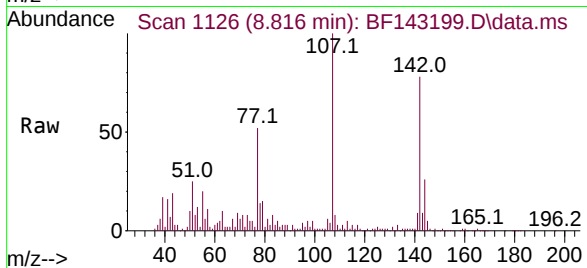




#36
4-Chloro-3-methylphenol
Concen: 32.708 ng
RT: 8.816 min Scan# 1126
Delta R.T. 0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

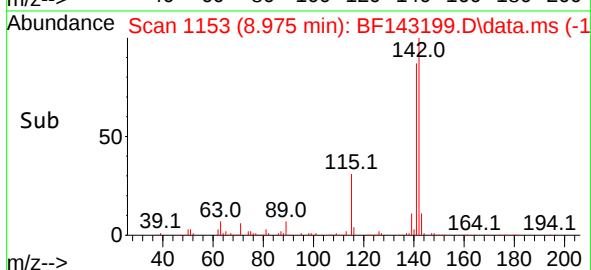
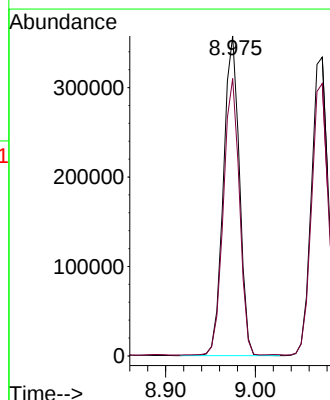
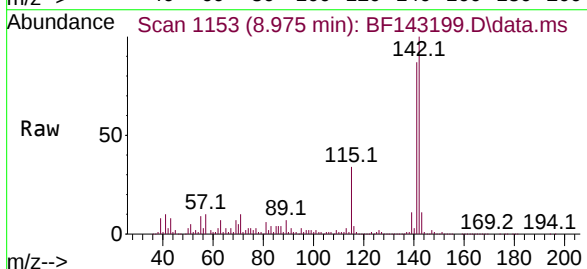
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

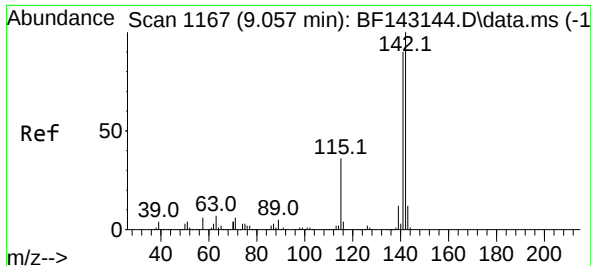
Tgt Ion:107 Resp: 200347
Ion Ratio Lower Upper
107 100
144 25.9 19.8 29.6
142 77.7 60.6 90.8



#37
2-Methylnaphthalene
Concen: 36.634 ng
RT: 8.975 min Scan# 1153
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:142 Resp: 443408
Ion Ratio Lower Upper
142 100
141 86.7 69.9 104.9

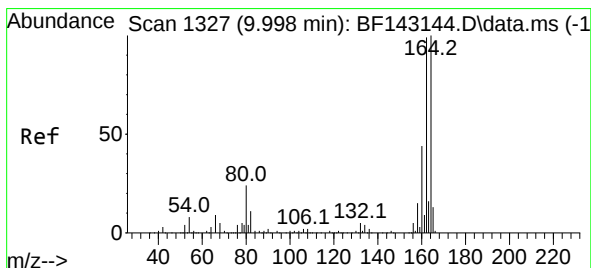
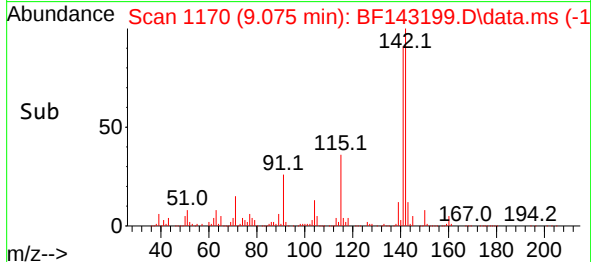
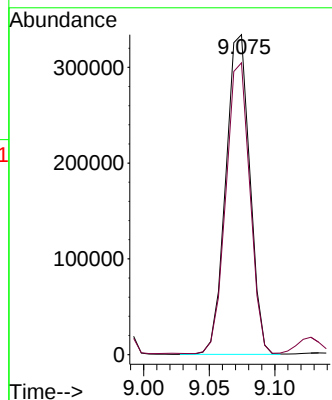
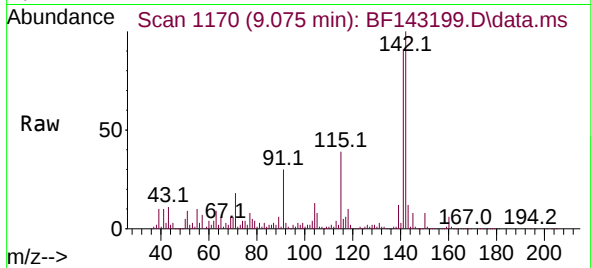




#38
1-Methylnaphthalene
Concen: 34.298 ng
RT: 9.075 min Scan# 1167
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

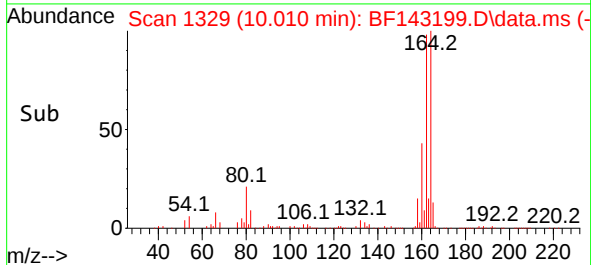
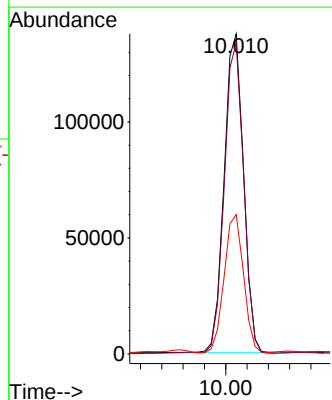
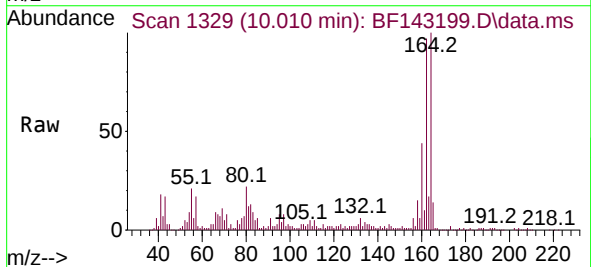
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

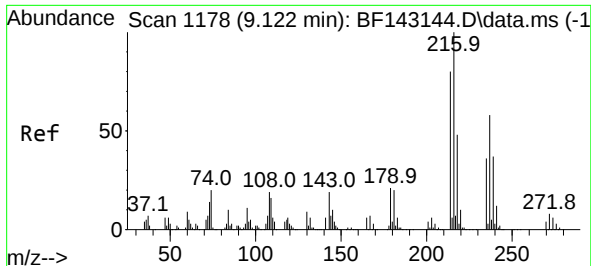
Tgt Ion:142 Resp: 427480
Ion Ratio Lower Upper
142 100
141 91.2 72.3 108.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.010 min Scan# 1329
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:164 Resp: 174208
Ion Ratio Lower Upper
164 100
162 97.2 79.0 118.6
160 43.5 35.1 52.7

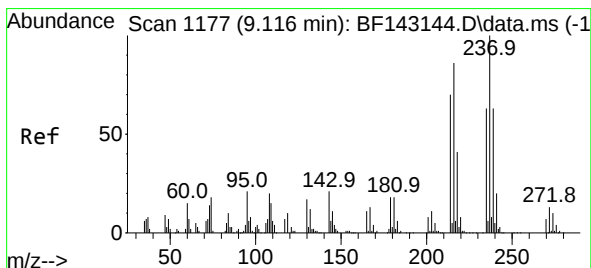
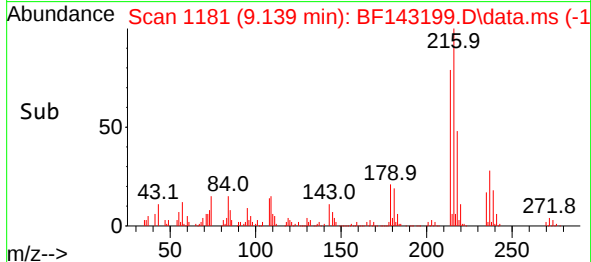
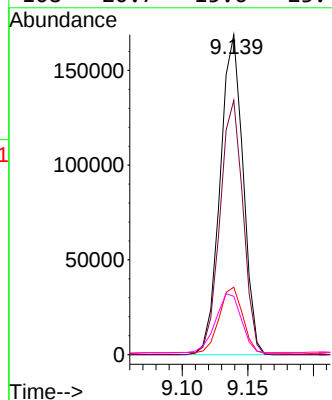
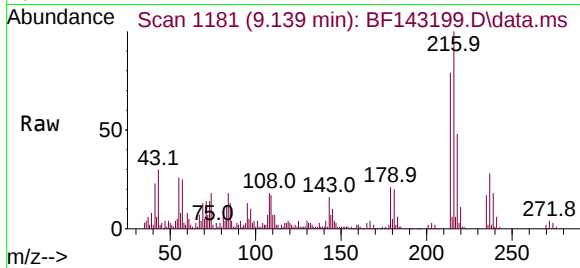




#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.979 ng
RT: 9.139 min Scan# 1179
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

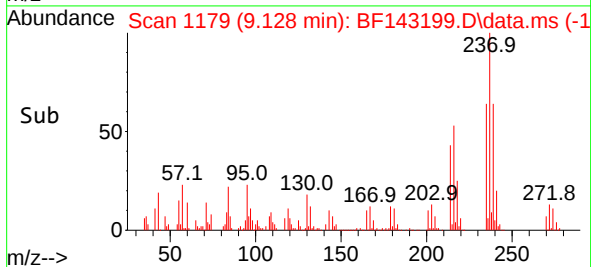
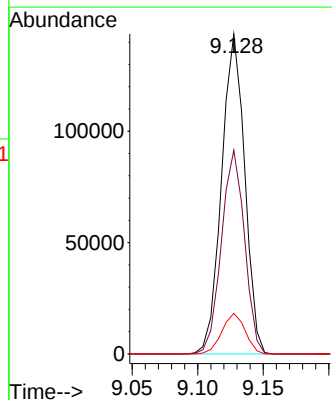
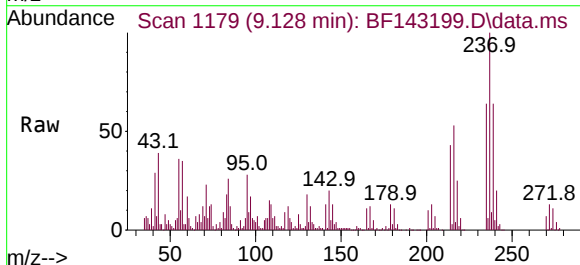
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

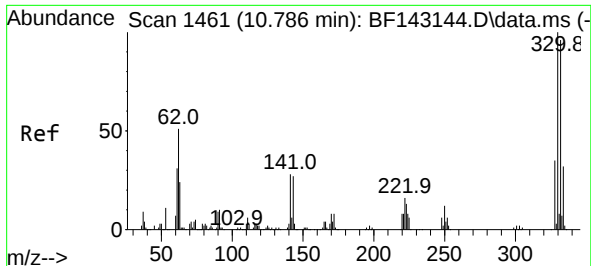
Tgt Ion:	216	Resp:	206106
Ion Ratio	Lower	Upper	
216	100		
214	79.8	63.8	95.8
179	22.3	16.4	24.6
108	20.7	15.6	23.4



#41
Hexachlorocyclopentadiene
Concen: 53.988 ng
RT: 9.128 min Scan# 1179
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:	237	Resp:	176682
Ion Ratio	Lower	Upper	
237	100		
235	63.6	43.0	83.0
272	12.7	0.0	33.3





#42

2,4,6-Tribromophenol

Concen: 99.053 ng

RT: 10.798 min Scan# 1463

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

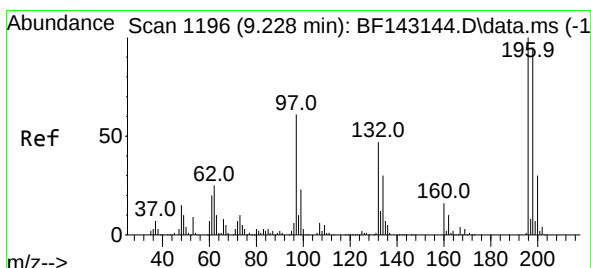
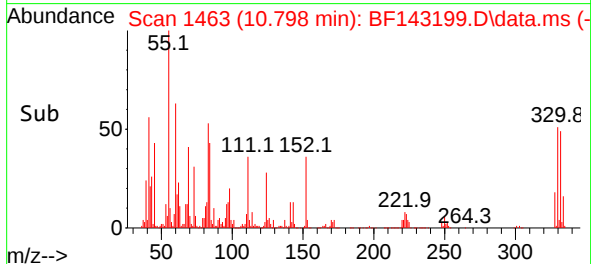
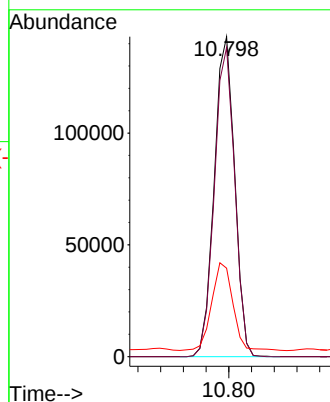
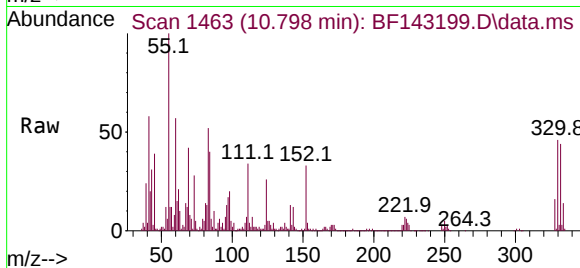
Tgt Ion:330 Resp: 178262

Ion Ratio Lower Upper

330 100

332 96.3 76.7 115.1

141 28.6 23.3 34.9



#43

2,4,6-Trichlorophenol

Concen: 36.459 ng

RT: 9.251 min Scan# 1200

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

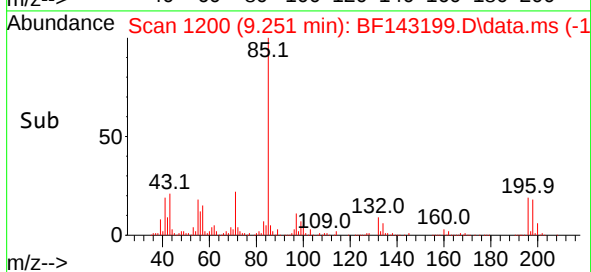
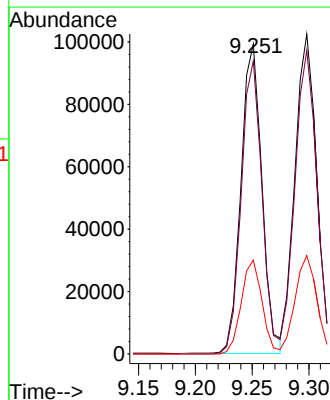
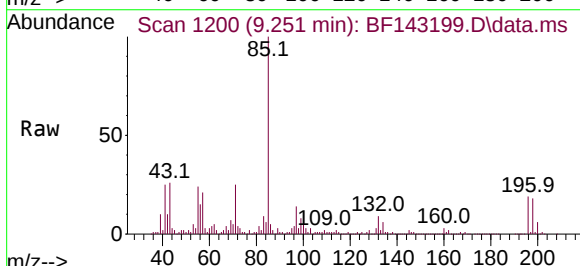
Tgt Ion:196 Resp: 126910

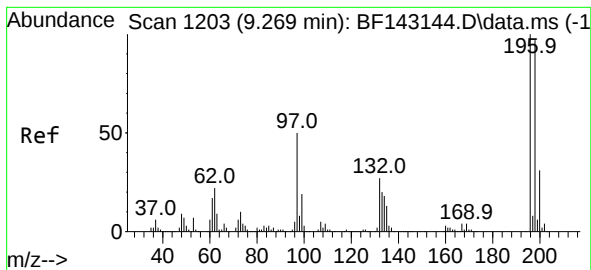
Ion Ratio Lower Upper

196 100

198 94.5 76.2 114.2

200 30.3 23.9 35.9

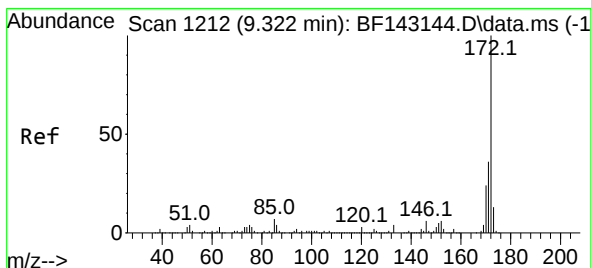
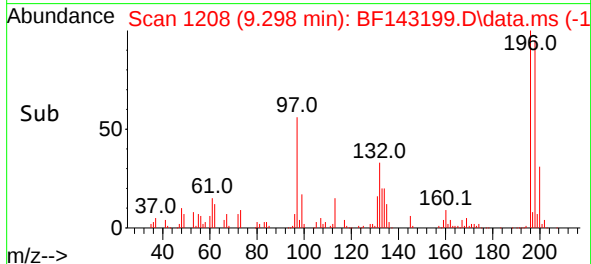
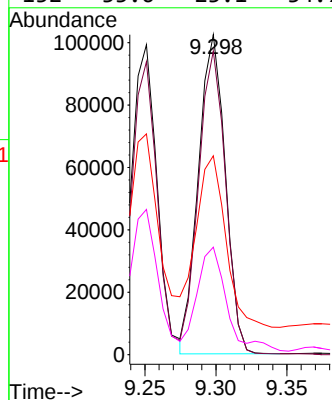
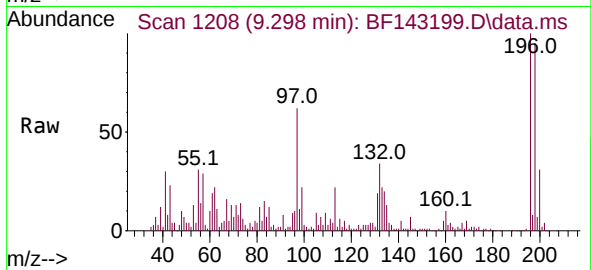




#44
2,4,5-Trichlorophenol
Concen: 38.713 ng
RT: 9.298 min Scan# 11
Delta R.T. 0.029 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

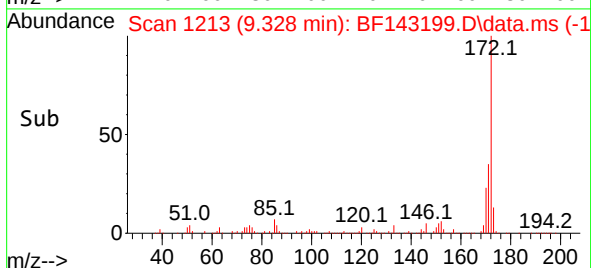
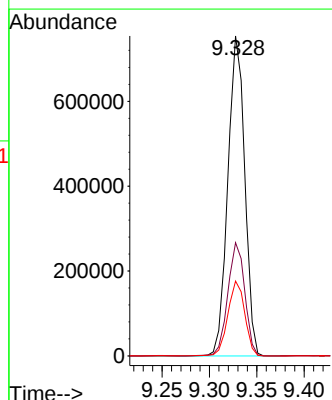
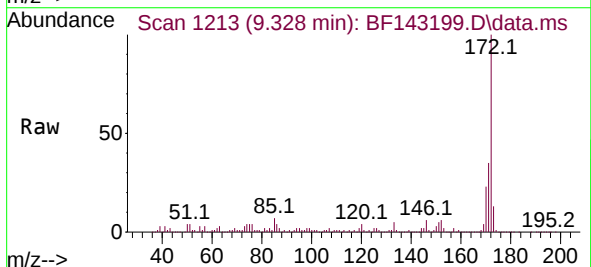
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

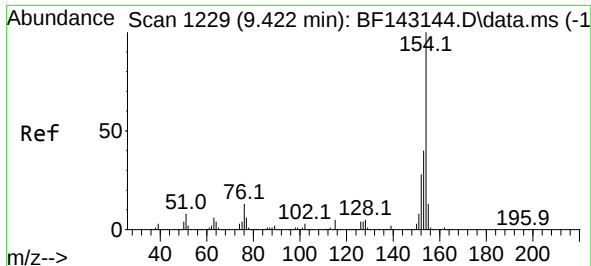
Tgt Ion:196 Resp: 134795
Ion Ratio Lower Upper
196 100
198 94.9 77.3 115.9
97 62.1 40.3 60.5#
132 33.6 23.1 34.7



#45
2-Fluorobiphenyl
Concen: 73.412 ng
RT: 9.328 min Scan# 1213
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:172 Resp: 935127
Ion Ratio Lower Upper
172 100
171 35.4 28.6 42.8
170 23.4 18.8 28.2

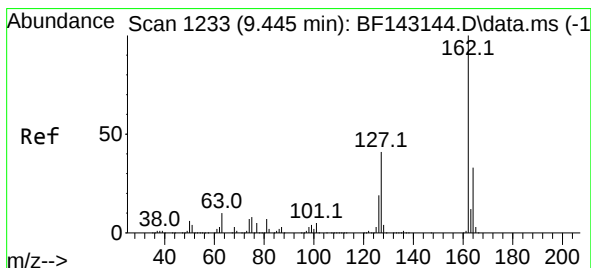
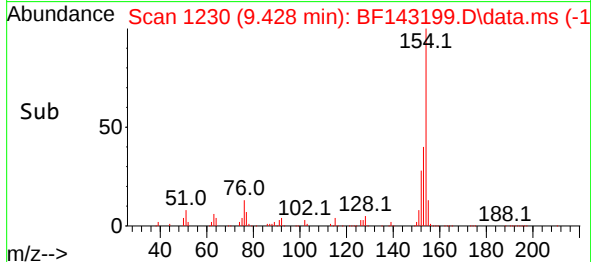
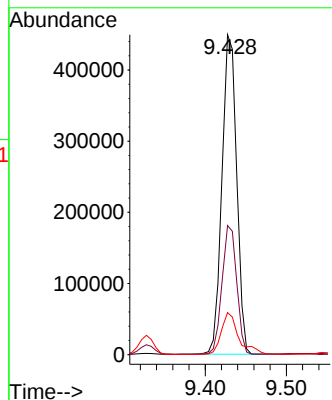
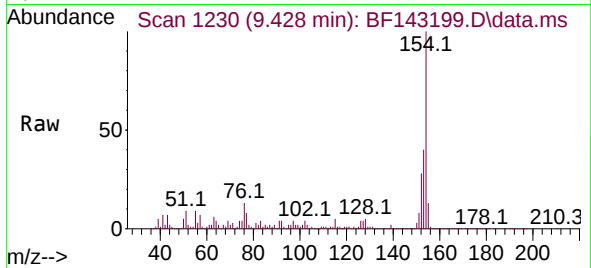




#46
1,1'-Biphenyl
Concen: 41.488 ng
RT: 9.428 min Scan# 1229
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

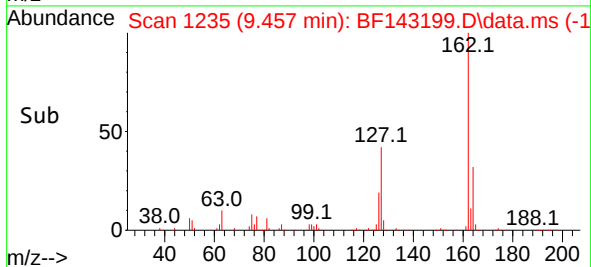
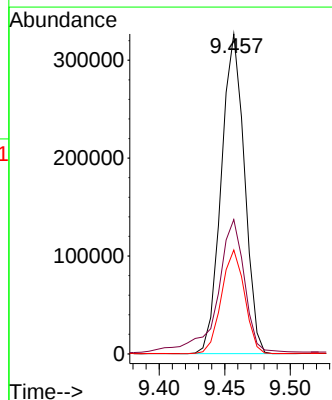
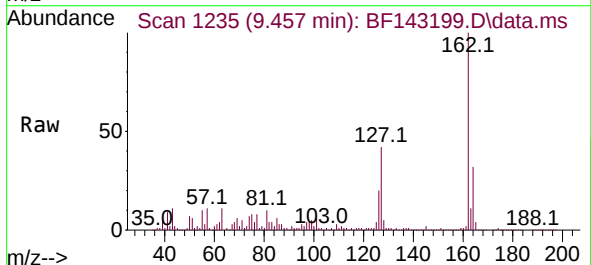
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

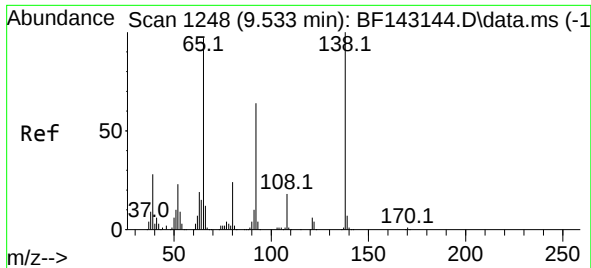
Tgt Ion:154 Resp: 563893
Ion Ratio Lower Upper
154 100
153 40.3 20.3 60.3
76 13.2 0.0 33.3



#47
2-Chloronaphthalene
Concen: 39.817 ng
RT: 9.457 min Scan# 1235
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:162 Resp: 400436
Ion Ratio Lower Upper
162 100
127 42.0 33.4 50.2
164 32.5 26.2 39.2

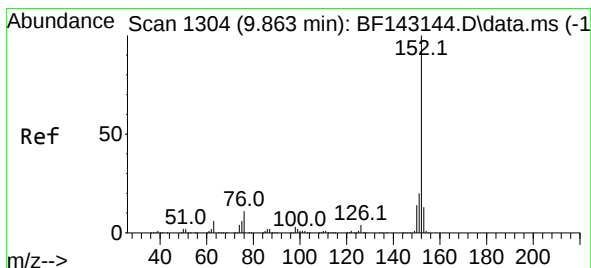
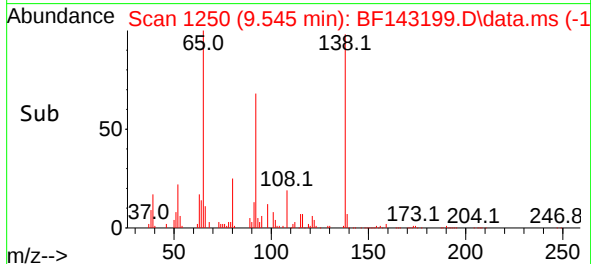
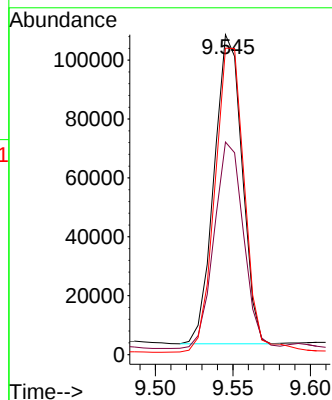
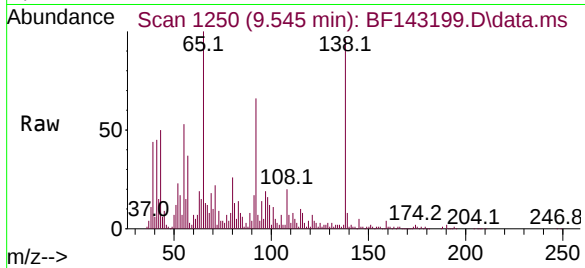




#48
2-Nitroaniline
Concen: 41.864 ng
RT: 9.545 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

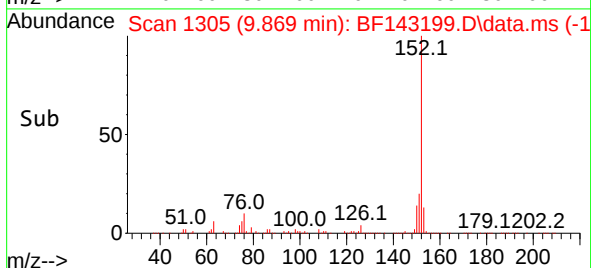
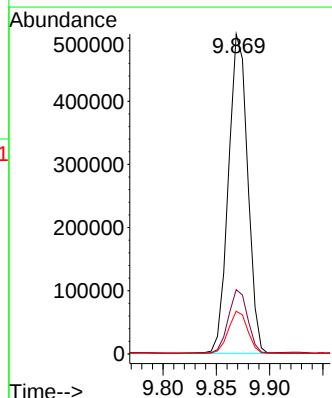
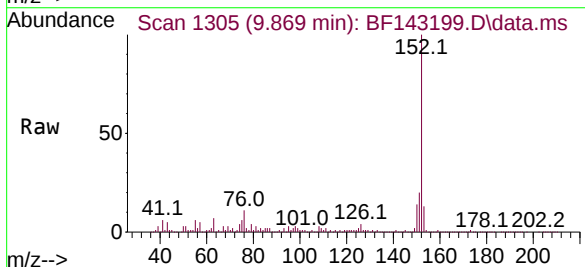
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

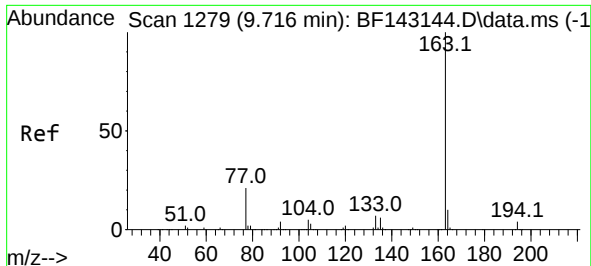
Tgt Ion: 65 Resp: 132031
Ion Ratio Lower Upper
65 100
92 66.4 52.4 78.6
138 95.8 82.3 123.5



#49
Acenaphthylene
Concen: 37.632 ng
RT: 9.869 min Scan# 1305
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 152 Resp: 634232
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.3 10.6 16.0

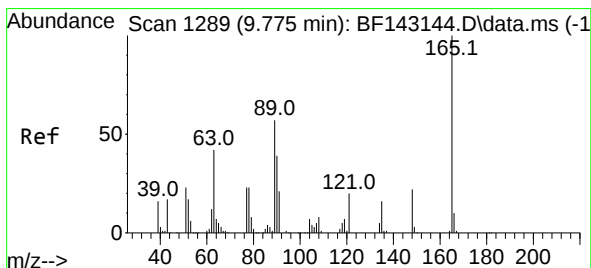
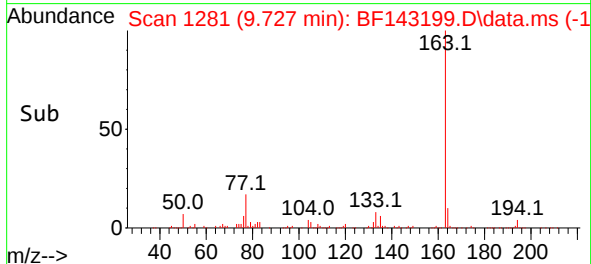
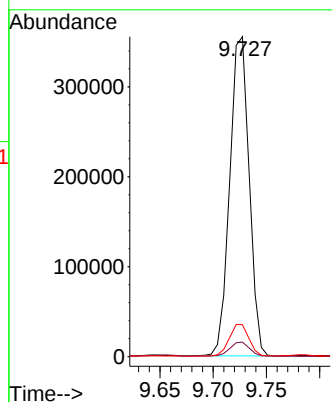
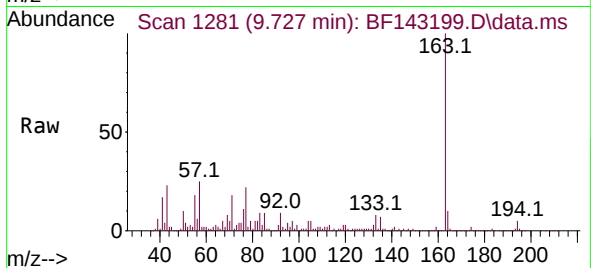




#50
Dimethylphthalate
Concen: 39.673 ng
RT: 9.727 min Scan# 1281
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

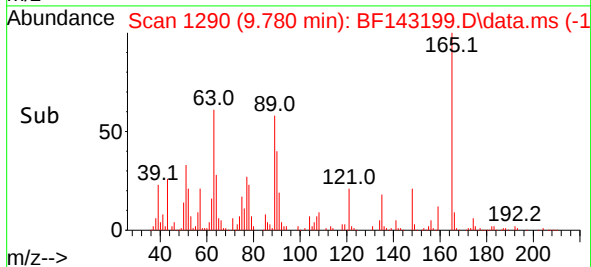
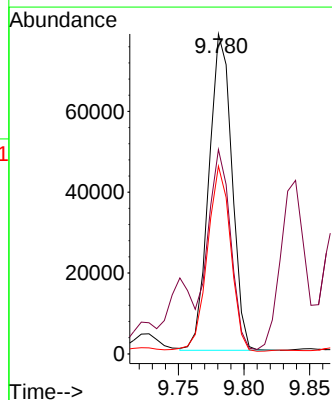
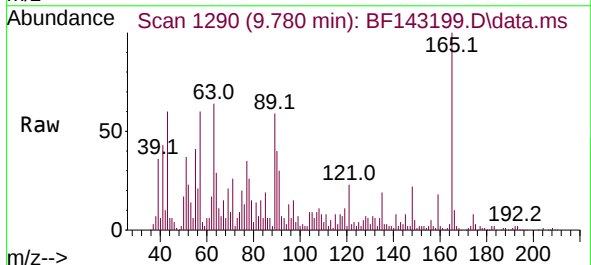
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

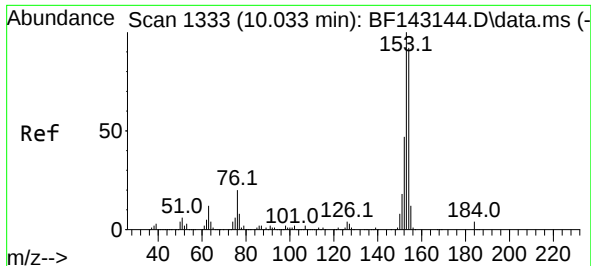
Tgt Ion:163 Resp: 450497
Ion Ratio Lower Upper
163 100
194 4.5 3.4 5.2
164 10.0 8.3 12.5



#51
2,6-Dinitrotoluene
Concen: 41.471 ng
RT: 9.780 min Scan# 1290
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:165 Resp: 95799
Ion Ratio Lower Upper
165 100
63 63.9 49.4 74.2
89 58.7 46.2 69.2

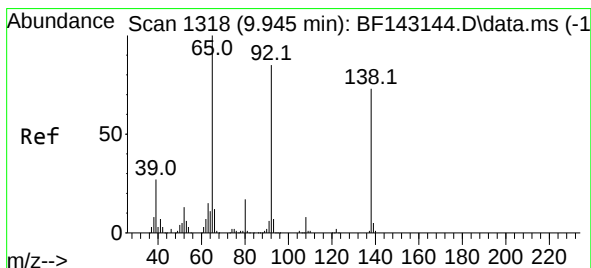
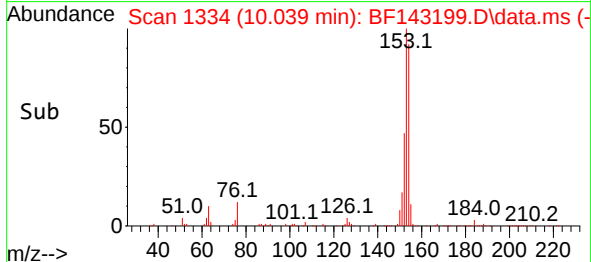
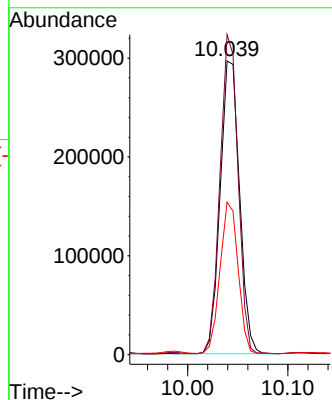
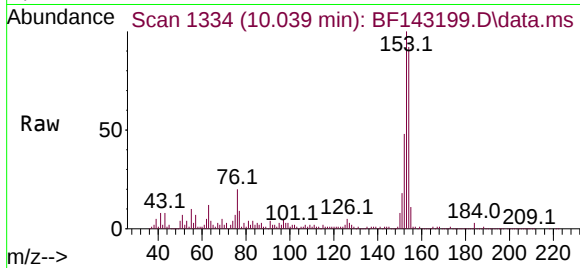




#52
Acenaphthene
Concen: 40.018 ng
RT: 10.039 min Scan# 1333
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

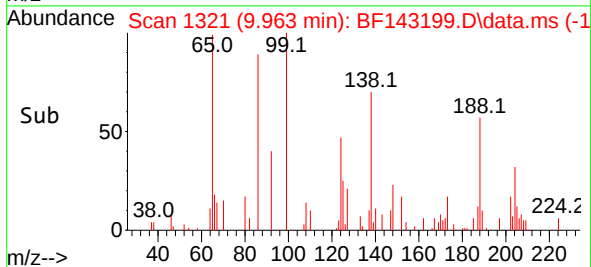
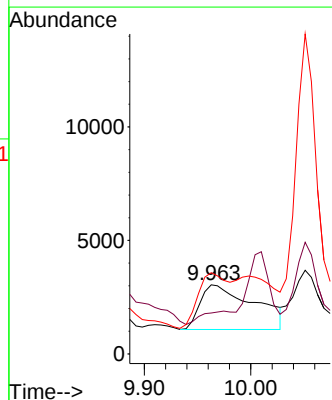
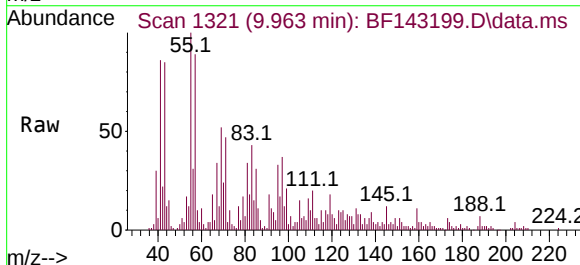
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

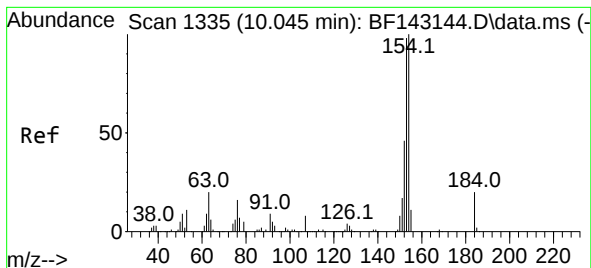
Tgt Ion:154 Resp: 398628
Ion Ratio Lower Upper
154 100
153 109.0 86.6 129.8
152 51.9 40.4 60.6



#53
3-Nitroaniline
Concen: 2.550 ng
RT: 9.963 min Scan# 1321
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:138 Resp: 6891
Ion Ratio Lower Upper
138 100
108 59.2 9.0 13.6#
92 117.7 93.0 139.4





#54

2,4-Dinitrophenol

Concen: 55.089 ng

RT: 10.051 min Scan# 1335

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

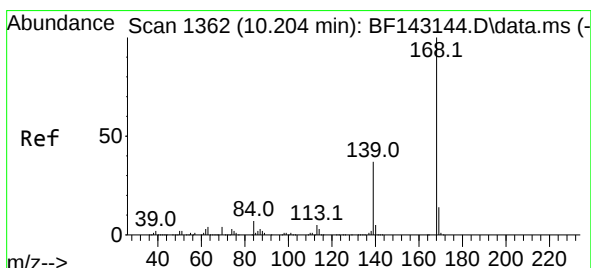
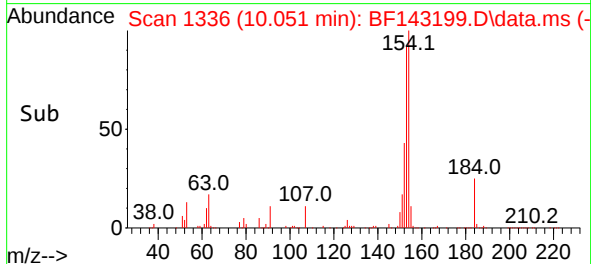
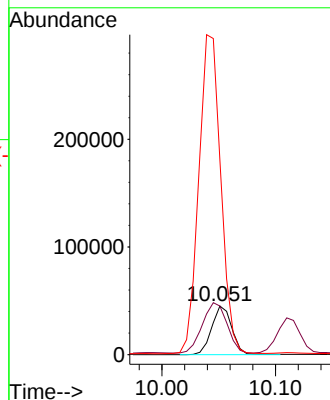
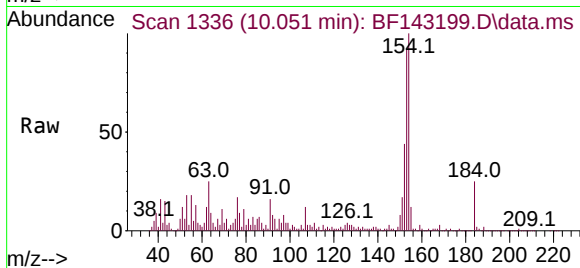
Tgt Ion:184 Resp: 55306

Ion Ratio Lower Upper

184 100

63 99.9 81.8 122.6

154 400.2 412.2 618.4#



#55

Dibenzofuran

Concen: 37.495 ng

RT: 10.210 min Scan# 1363

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

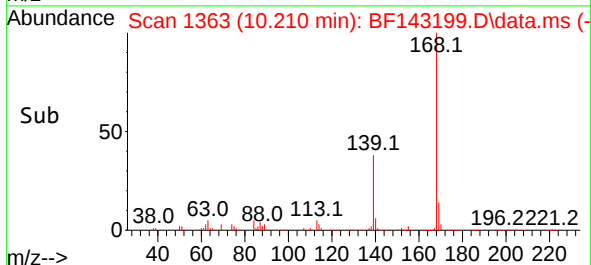
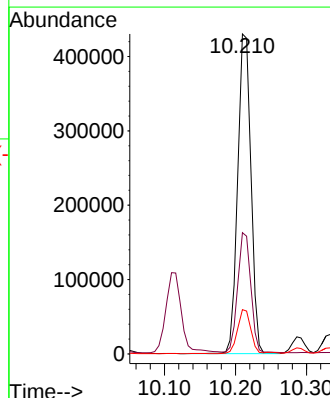
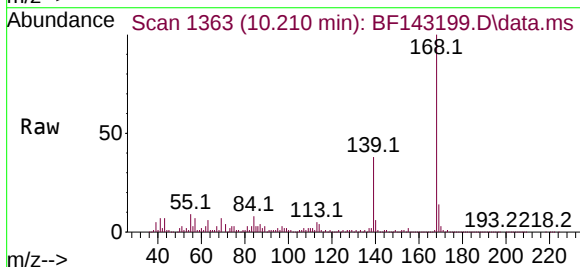
Tgt Ion:168 Resp: 554525

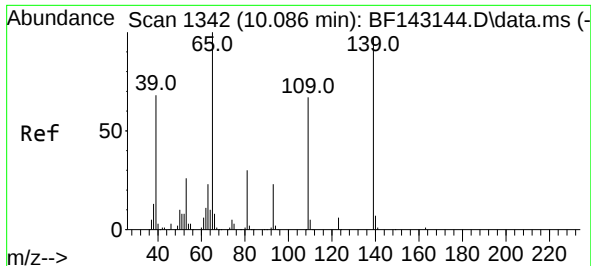
Ion Ratio Lower Upper

168 100

139 37.9 29.5 44.3

169 13.8 10.9 16.3

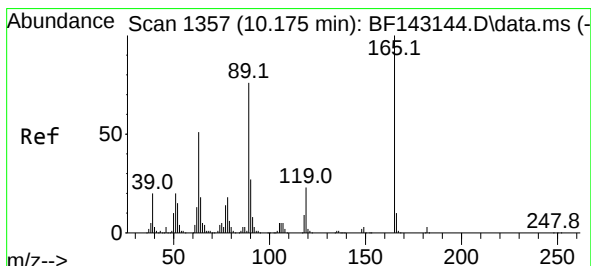
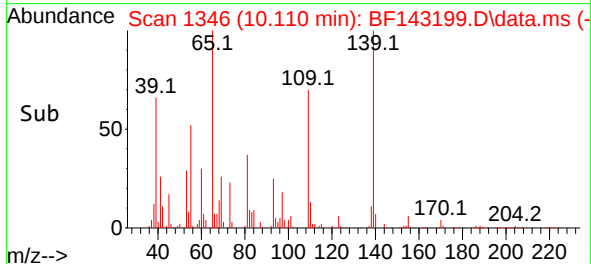
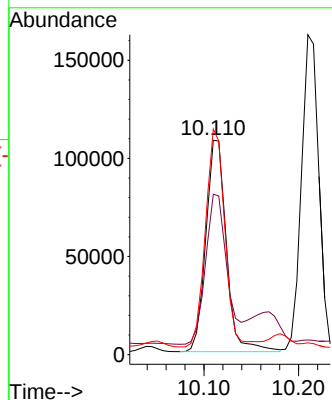
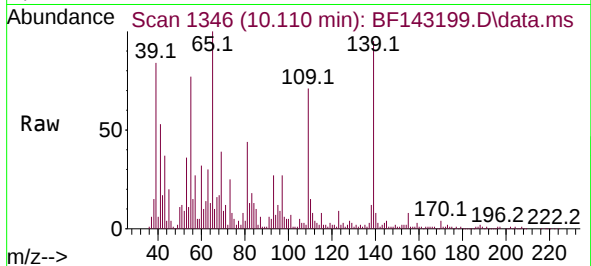




#56
4-Nitrophenol
Concen: 80.702 ng
RT: 10.110 min Scan# 1342
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

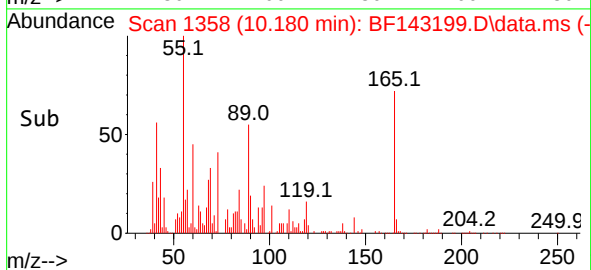
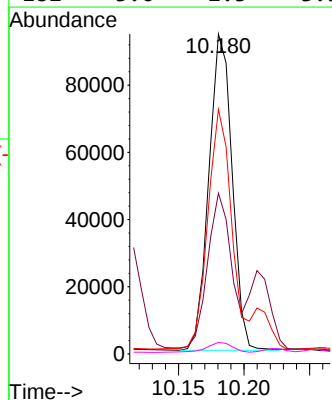
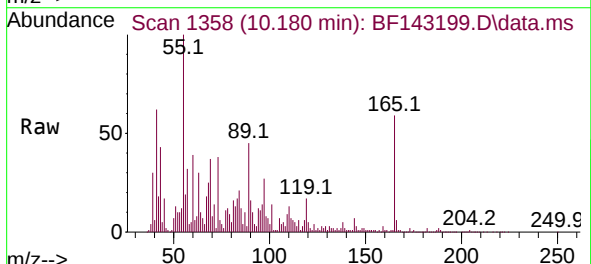
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

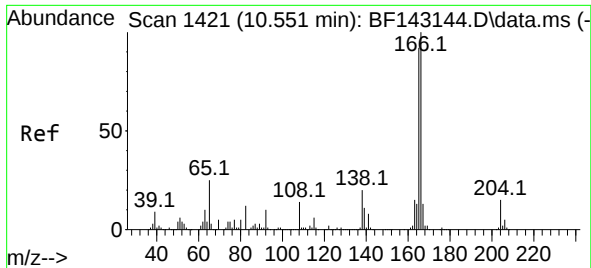
Tgt Ion:139 Resp: 162828
Ion Ratio Lower Upper
139 100
109 74.9 48.5 88.5
65 105.3 83.4 123.4



#57
2,4-Dinitrotoluene
Concen: 40.174 ng
RT: 10.180 min Scan# 1358
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:165 Resp: 116431
Ion Ratio Lower Upper
165 100
63 50.2 41.0 61.4
89 76.4 61.1 91.7
182 3.6 2.3 3.5#

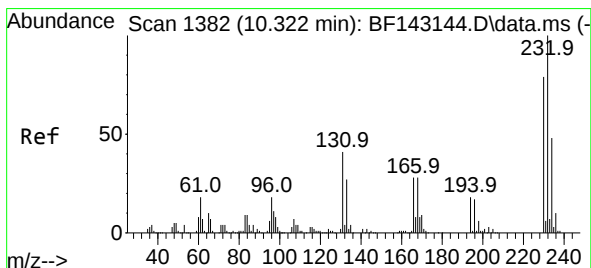
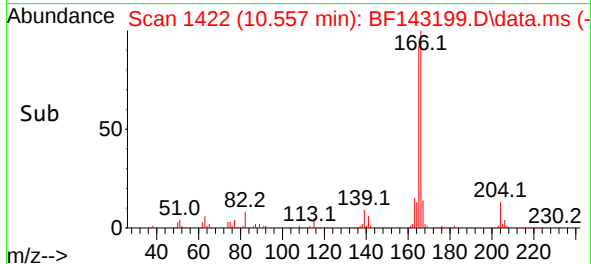
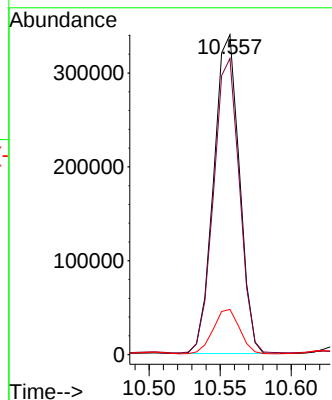
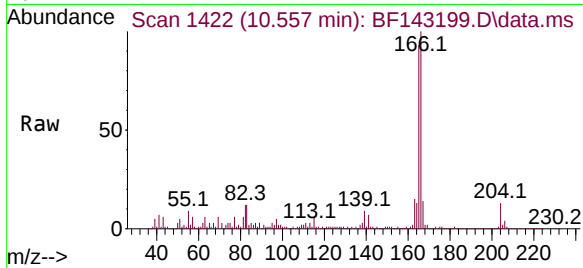




#58
Fluorene
Concen: 38.577 ng
RT: 10.557 min Scan# 1421
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

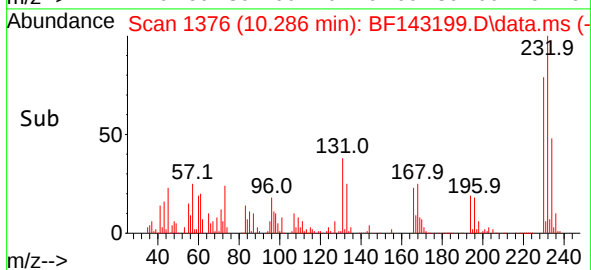
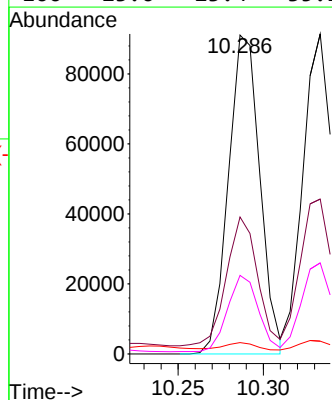
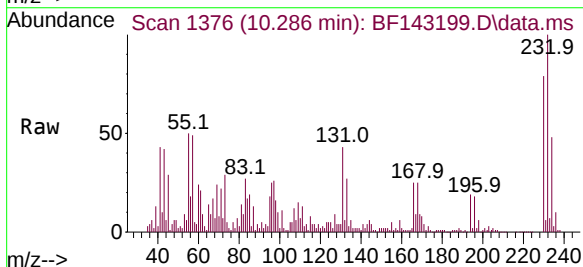
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

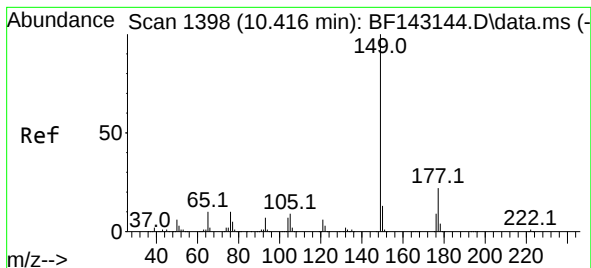
Tgt Ion:166 Resp: 428198
Ion Ratio Lower Upper
166 100
165 92.5 73.7 110.5
167 14.1 10.6 16.0



#59
2,3,4,6-Tetrachlorophenol
Concen: 40.441 ng
RT: 10.286 min Scan# 1376
Delta R.T. -0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:232 Resp: 116644
Ion Ratio Lower Upper
232 100
131 39.7 35.3 52.9
130 2.4 1.7 2.5
166 23.6 23.4 35.2





#60

Diethylphthalate

Concen: 45.135 ng

RT: 10.422 min Scan# 1398

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

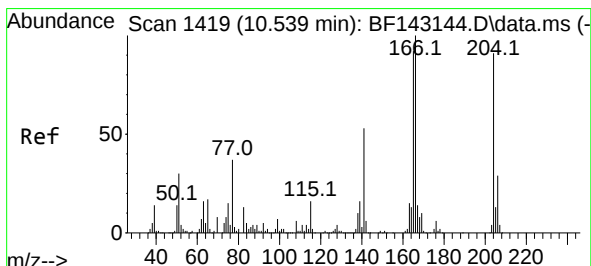
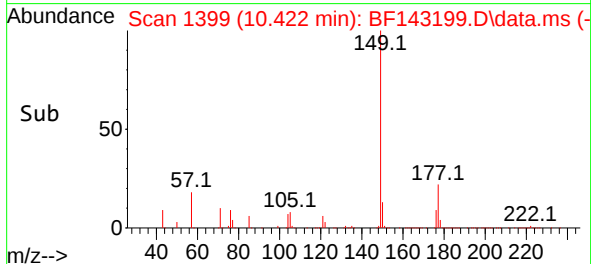
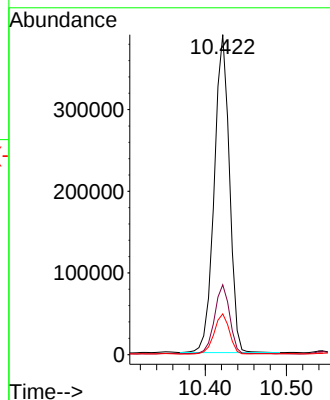
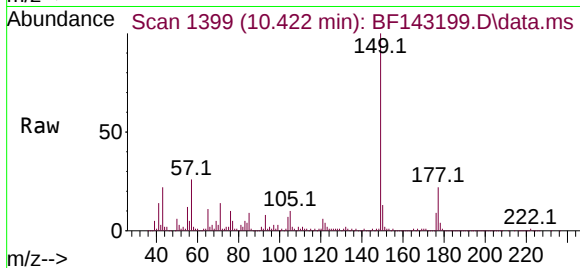
Tgt Ion:149 Resp: 506582

Ion Ratio Lower Upper

149 100

177 21.9 17.5 26.3

150 12.7 10.2 15.2



#61

4-Chlorophenyl-phenylether

Concen: 37.896 ng

RT: 10.545 min Scan# 1420

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

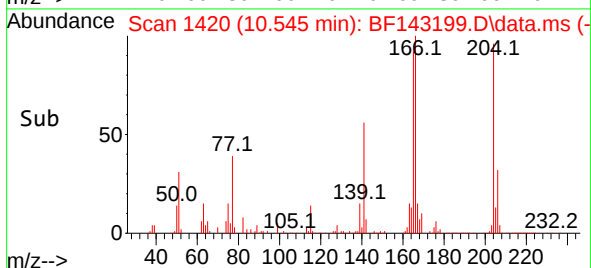
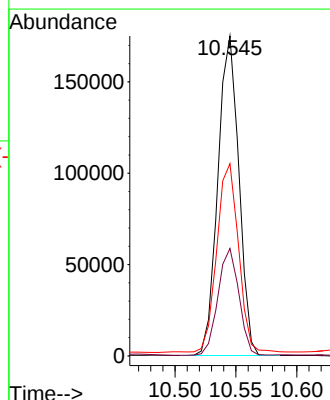
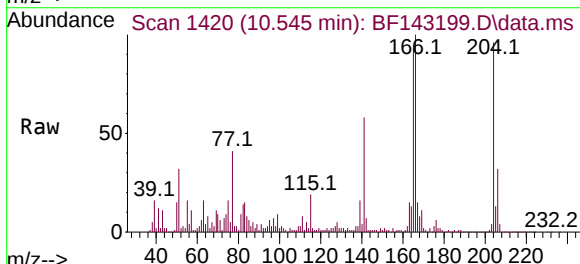
Tgt Ion:204 Resp: 209454

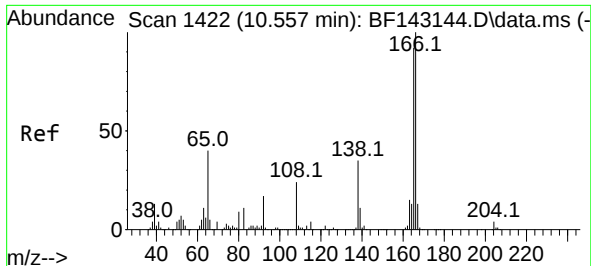
Ion Ratio Lower Upper

204 100

206 33.6 25.8 38.8

141 60.1 47.0 70.4

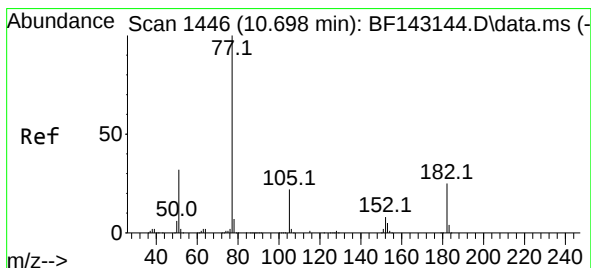
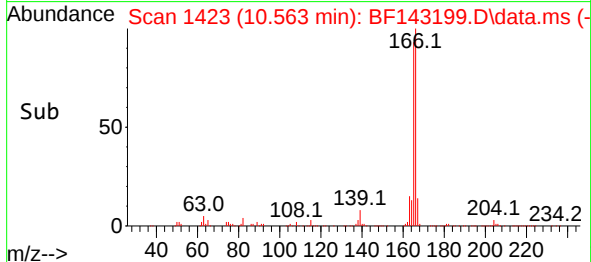
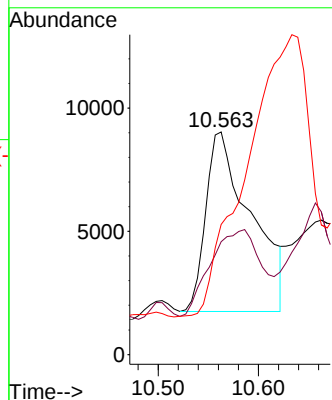
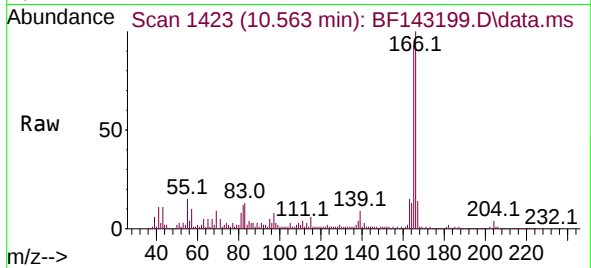




#62
4-Nitroaniline
Concen: 9.823 ng
RT: 10.563 min Scan# 1422
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

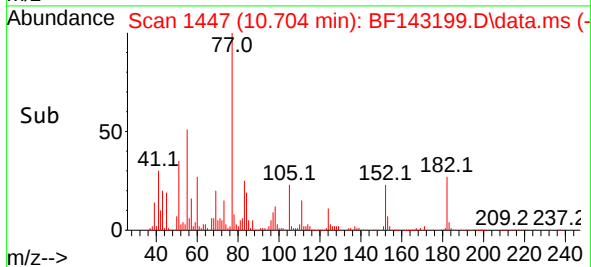
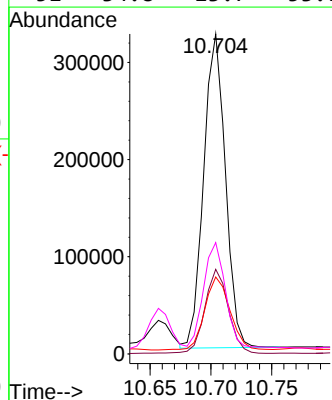
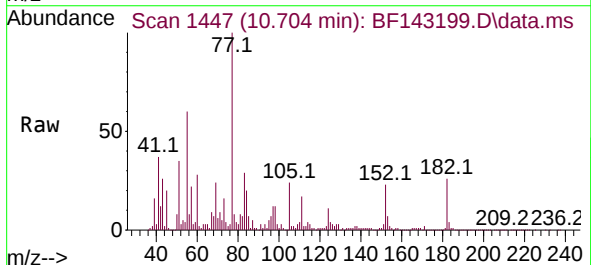
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

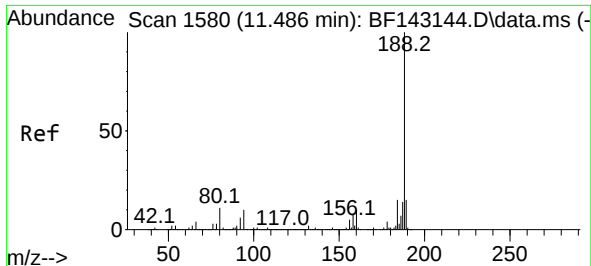
Tgt Ion:138 Resp: 22748
Ion Ratio Lower Upper
138 100
92 50.7 29.3 69.3
108 58.5 48.3 88.3



#63
Azobenzene
Concen: 34.302 ng
RT: 10.704 min Scan# 1447
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 77 Resp: 401256
Ion Ratio Lower Upper
77 100
182 26.4 4.6 44.6
105 24.0 1.4 41.4
51 34.8 13.7 53.7

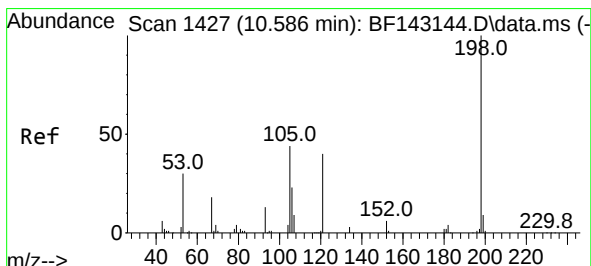
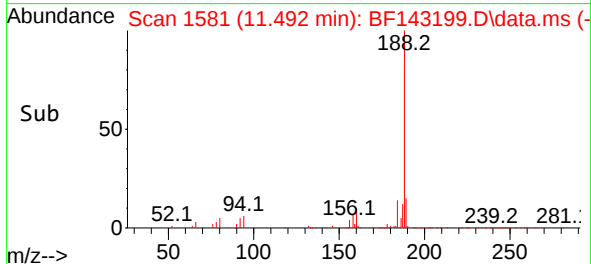
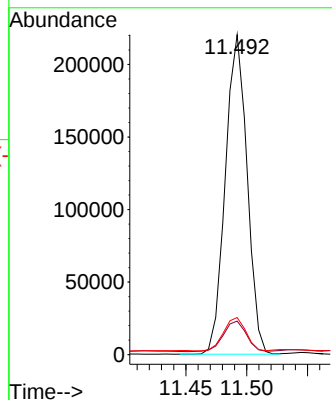
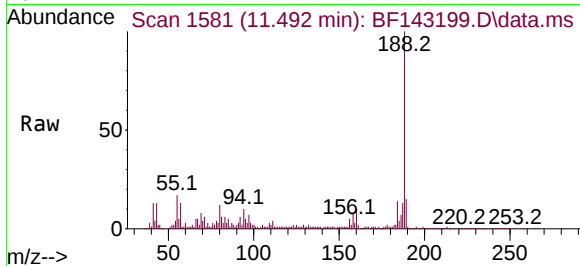




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

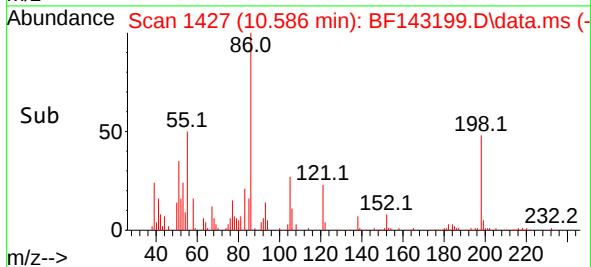
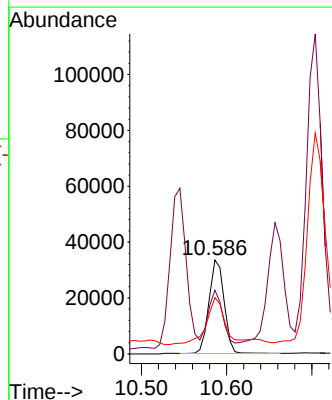
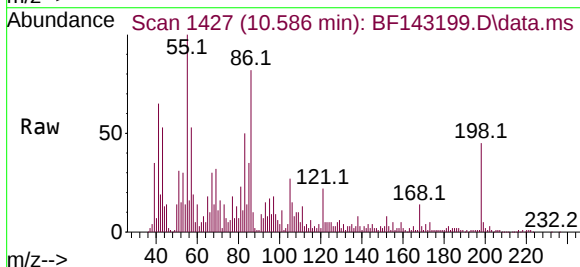
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

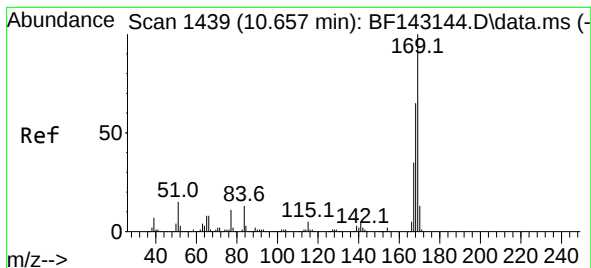
Tgt Ion:188 Resp: 273501
Ion Ratio Lower Upper
188 100
94 10.5 8.3 12.5
80 11.6 9.0 13.6



#65
4,6-Dinitro-2-methylphenol
Concen: 30.931 ng
RT: 10.586 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:198 Resp: 41238
Ion Ratio Lower Upper
198 100
51 67.7 37.2 77.2
105 59.9 24.8 64.8





#66

n-Nitrosodiphenylamine

Concen: 34.900 ng

RT: 10.657 min Scan# 14

Delta R.T. -0.000 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

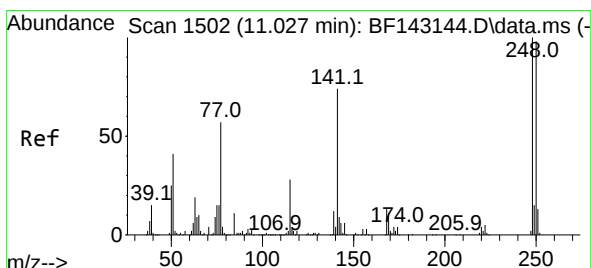
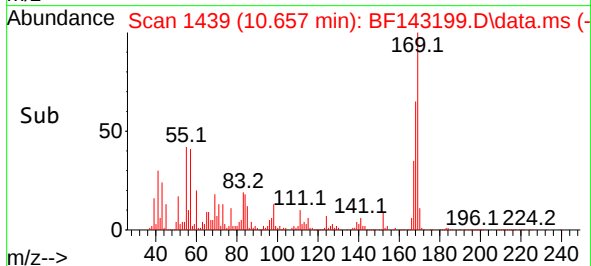
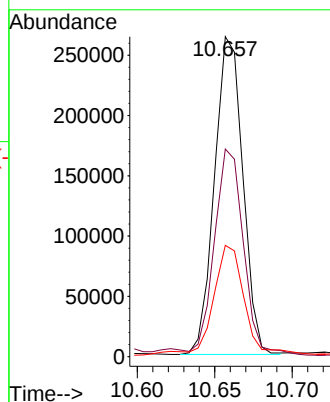
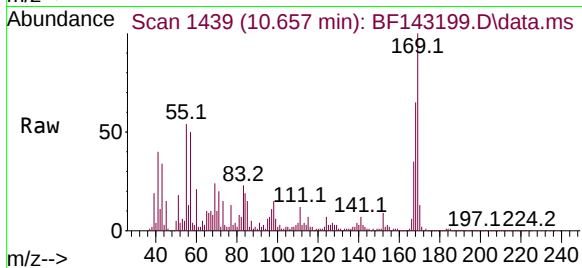
Tgt Ion:169 Resp: 336118

Ion Ratio Lower Upper

169 100

168 64.9 52.1 78.1

167 34.8 28.2 42.2



#67

4-Bromophenyl-phenylether

Concen: 37.814 ng

RT: 11.033 min Scan# 1503

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

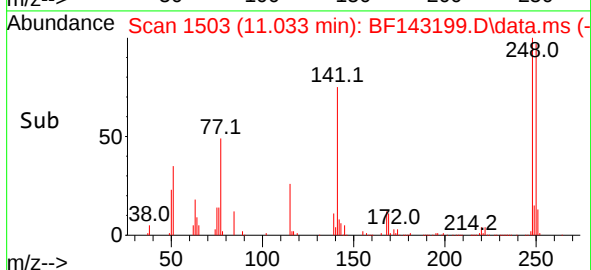
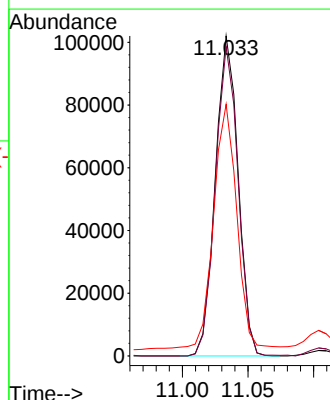
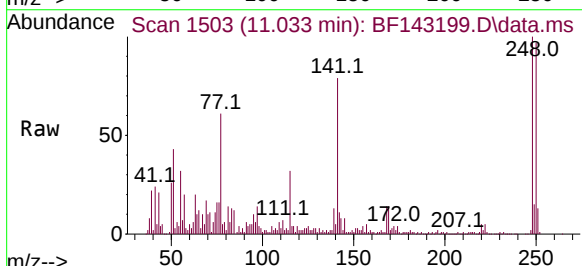
Tgt Ion:248 Resp: 123252

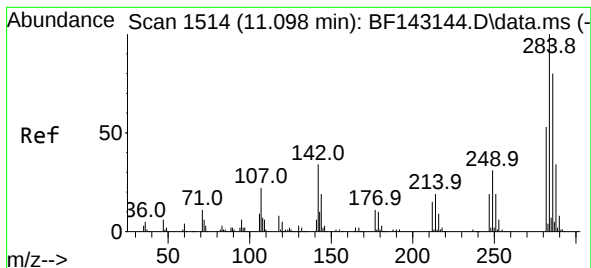
Ion Ratio Lower Upper

248 100

250 96.7 78.3 117.5

141 78.6 59.2 88.8





#68

Hexachlorobenzene

Concen: 37.183 ng

RT: 11.104 min Scan# 1514

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

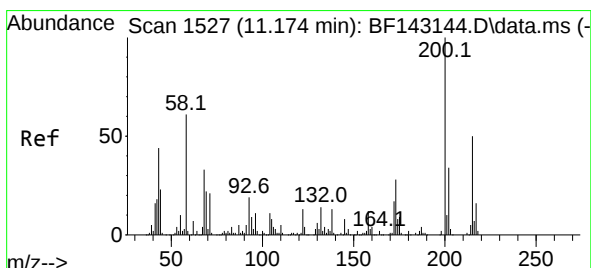
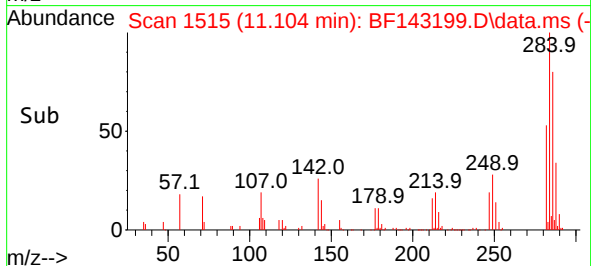
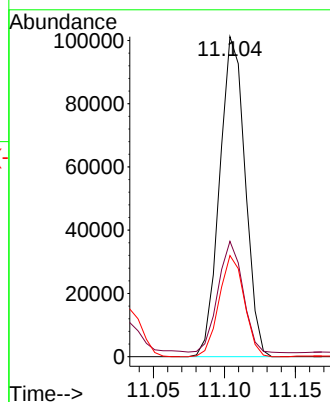
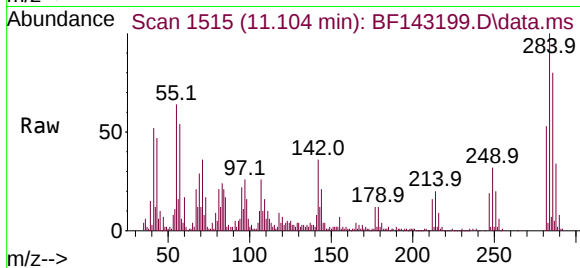
Tgt Ion:284 Resp: 126673

Ion Ratio Lower Upper

284 100

142 36.1 27.0 40.6

249 31.6 25.0 37.6



#69

Atrazine

Concen: 33.915 ng

RT: 11.227 min Scan# 1536

Delta R.T. 0.053 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

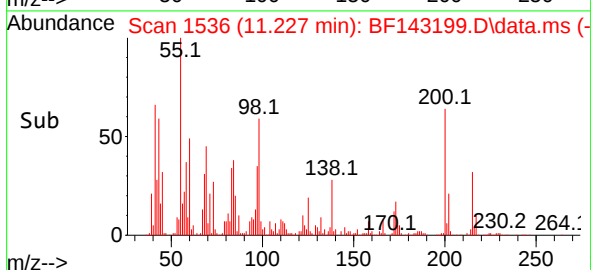
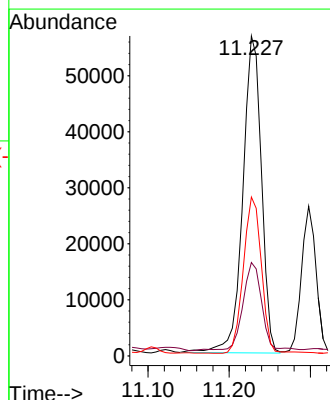
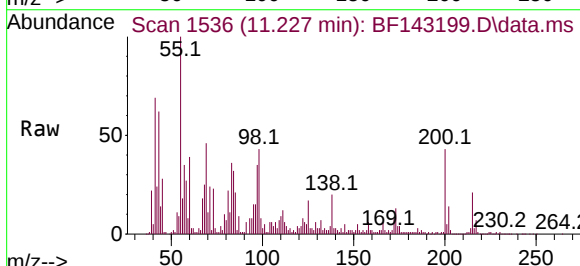
Tgt Ion:200 Resp: 90049

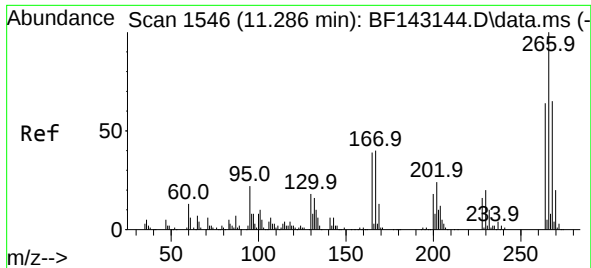
Ion Ratio Lower Upper

200 100

173 29.2 7.9 47.9

215 49.6 30.1 70.1

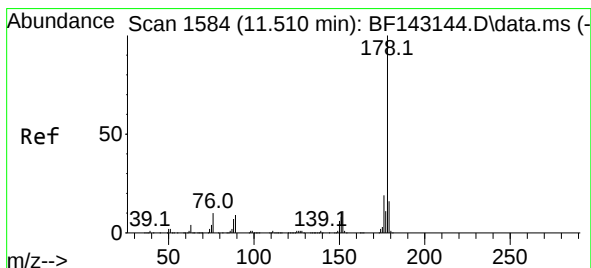
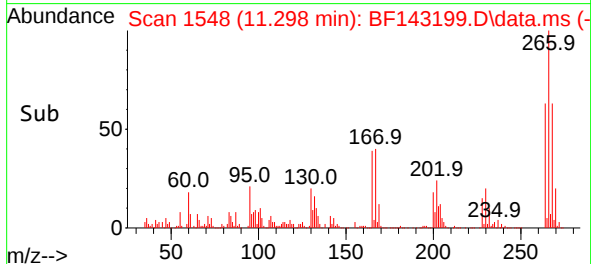
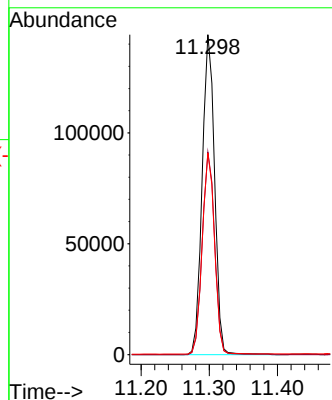
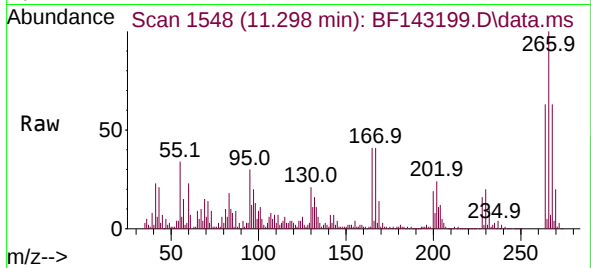




#70
 Pentachlorophenol
 Concen: 91.211 ng
 RT: 11.298 min Scan# 1548
 Delta R.T. 0.012 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20

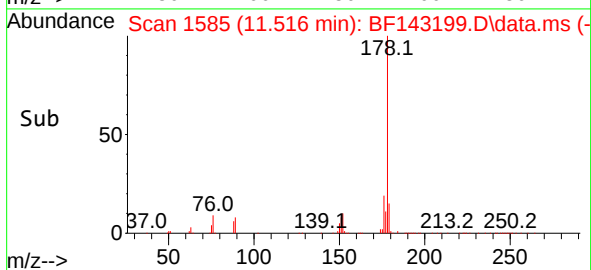
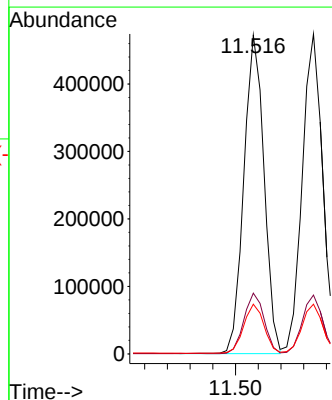
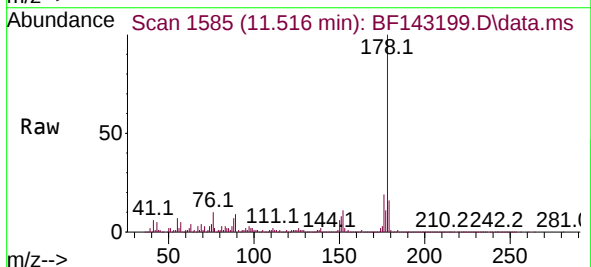
Instrument :
 BNA_F
 ClientSampleId :
 FRAC TANKMS

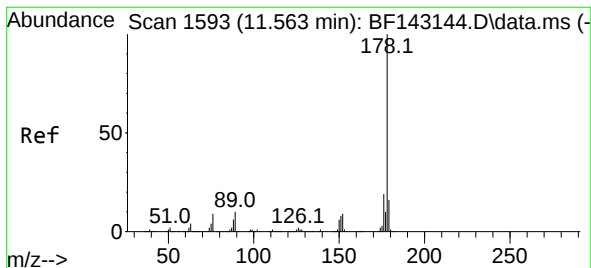
Tgt Ion:266 Resp: 182738
 Ion Ratio Lower Upper
 266 100
 268 63.3 51.9 77.9
 264 63.0 51.0 76.6



#71
 Phenanthrene
 Concen: 39.993 ng
 RT: 11.516 min Scan# 1585
 Delta R.T. 0.006 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20

Tgt Ion:178 Resp: 580774
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.3 22.9
 179 15.6 12.5 18.7





#72

Anthracene

Concen: 39.452 ng

RT: 11.569 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

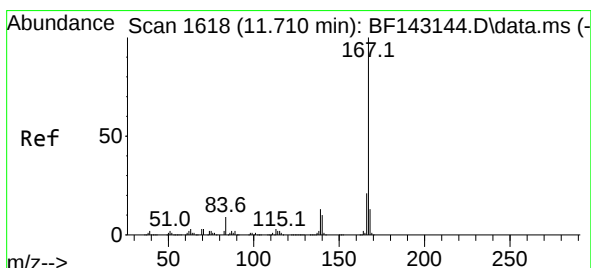
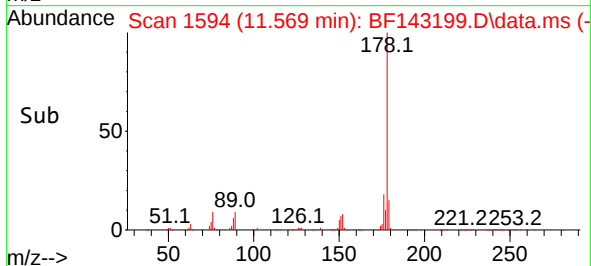
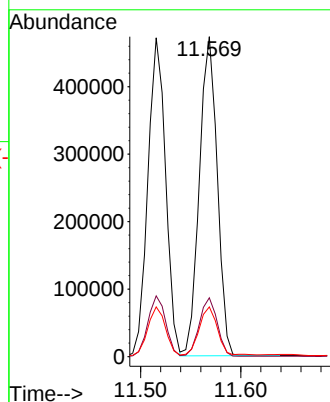
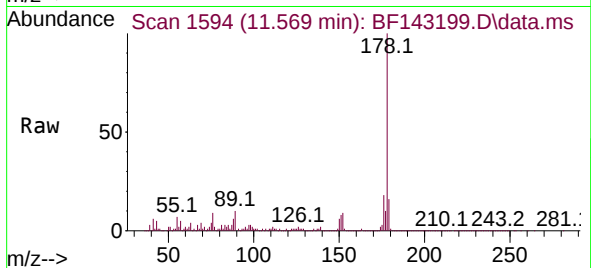
Tgt Ion:178 Resp: 584315

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

179 15.5 12.5 18.7



#73

Carbazole

Concen: 42.231 ng

RT: 11.721 min Scan# 1620

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

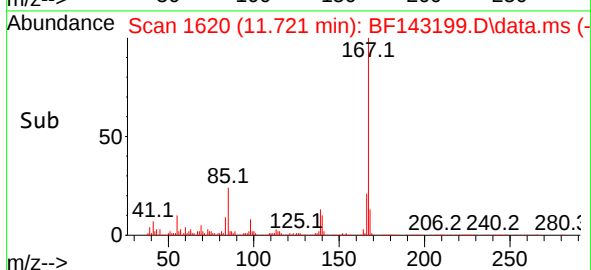
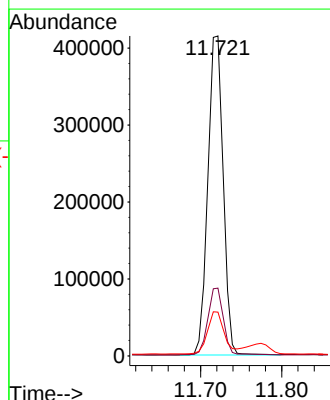
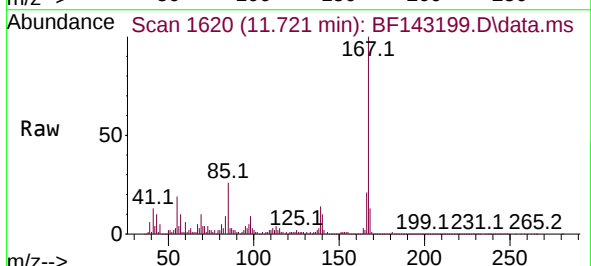
Tgt Ion:167 Resp: 546164

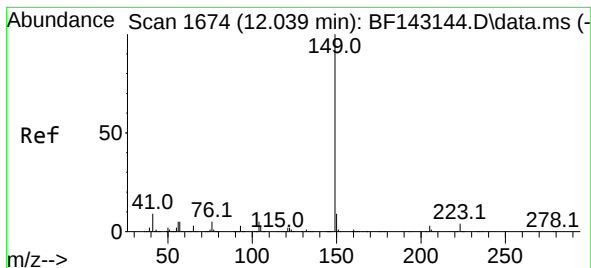
Ion Ratio Lower Upper

167 100

166 21.2 17.0 25.6

139 13.7 10.0 15.0

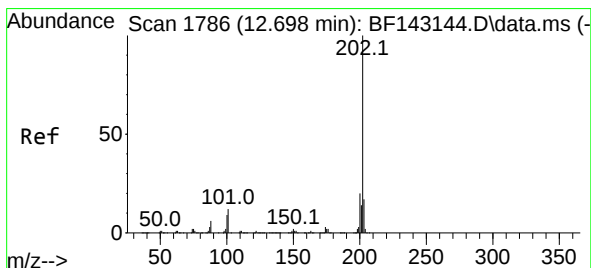
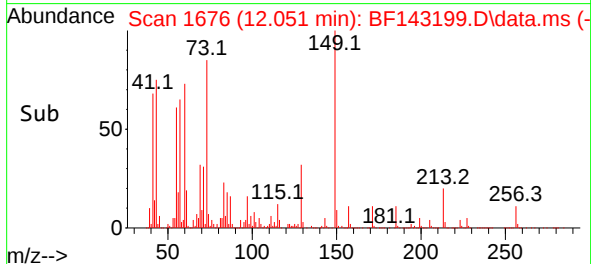
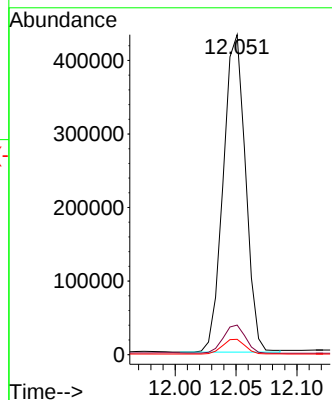
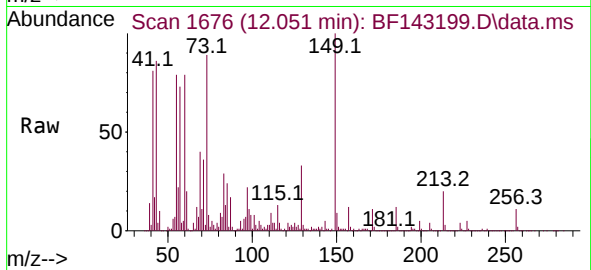




#74
Di-n-butylphthalate
Concen: 37.497 ng
RT: 12.051 min Scan# 1676
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

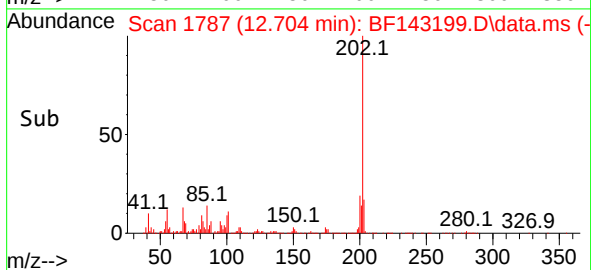
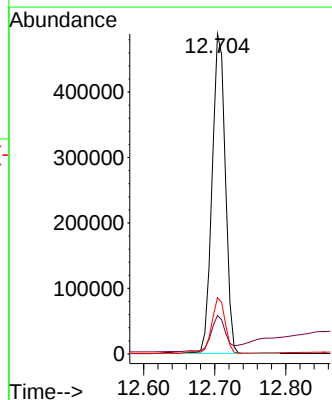
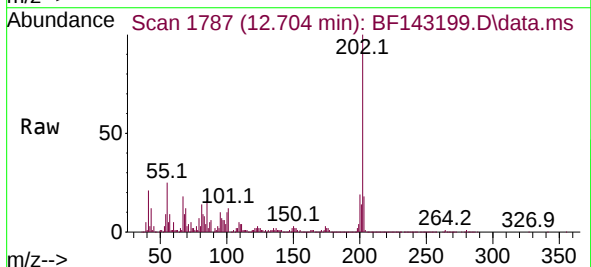
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

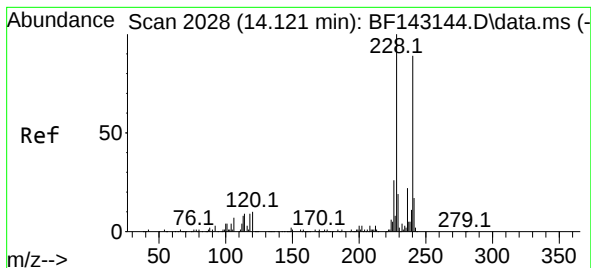
Tgt Ion:149 Resp: 548715
Ion Ratio Lower Upper
149 100
150 9.2 7.4 11.2
104 4.8 3.8 5.8



#75
Fluoranthene
Concen: 47.268 ng
RT: 12.704 min Scan# 1787
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:202 Resp: 630057
Ion Ratio Lower Upper
202 100
101 12.0 0.0 31.7
203 17.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.151 min Scan# 20

Delta R.T. 0.029 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

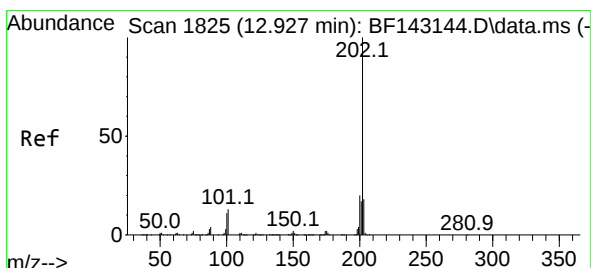
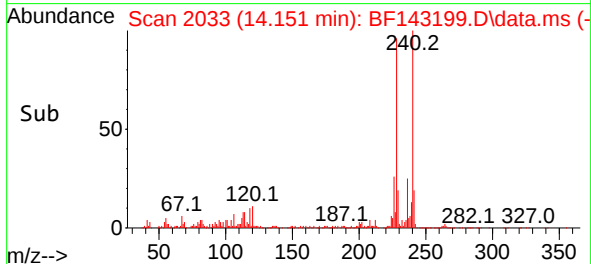
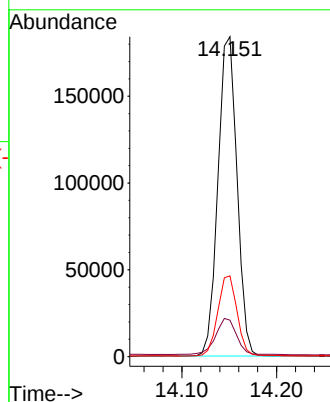
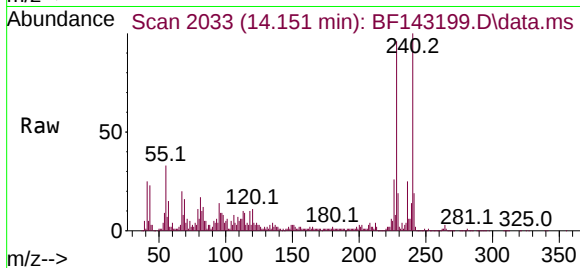
Tgt Ion:240 Resp: 256851

Ion Ratio Lower Upper

240 100

120 11.4 9.4 14.2

236 25.2 20.2 30.4



#78

Pyrene

Concen: 9.998 ng

RT: 12.939 min Scan# 1827

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

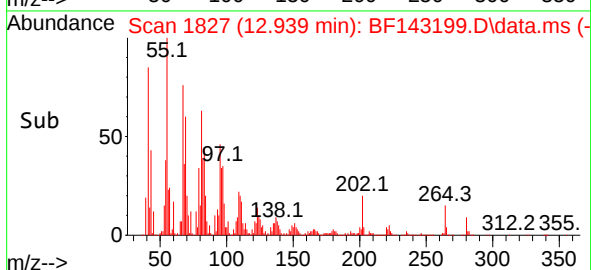
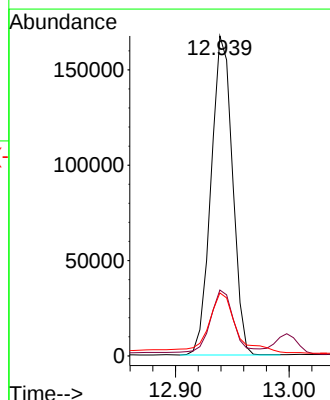
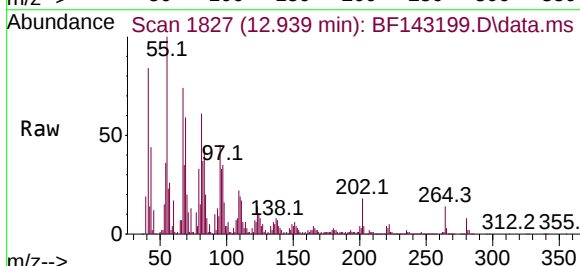
Tgt Ion:202 Resp: 219163

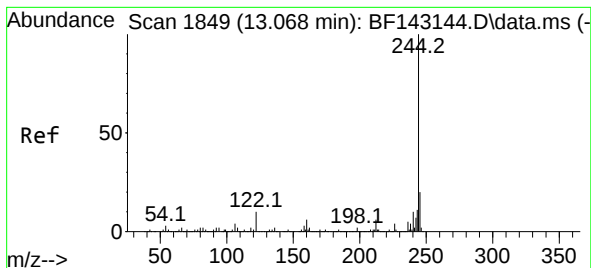
Ion Ratio Lower Upper

202 100

200 20.6 15.7 23.5

203 19.7 14.2 21.2





#79

Terphenyl-d14

Concen: 46.752 ng

RT: 13.092 min Scan# 1849

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

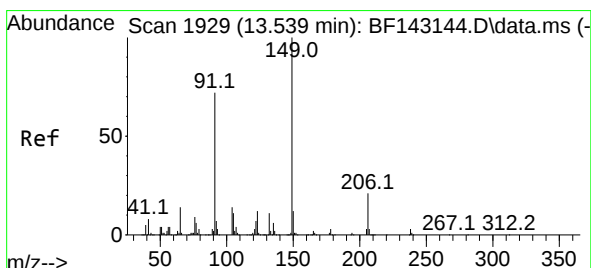
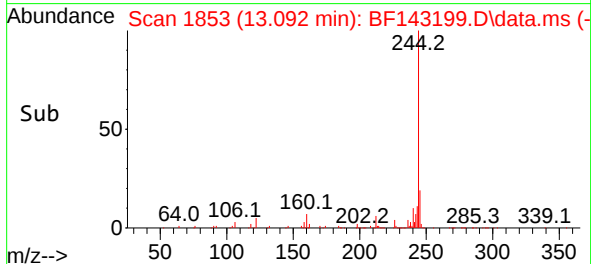
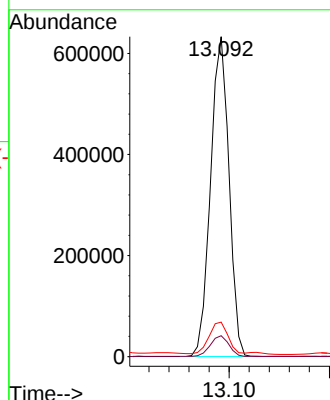
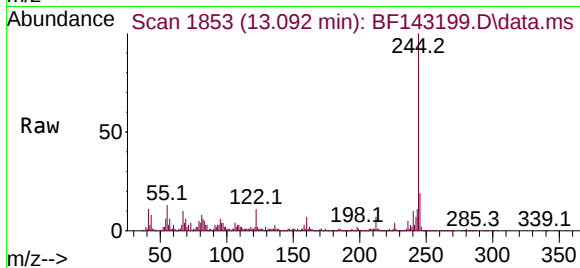
Tgt Ion:244 Resp: 806959

Ion Ratio Lower Upper

244 100

212 6.5 5.2 7.8

122 10.8 8.2 12.2



#80

Butylbenzylphthalate

Concen: 43.959 ng

RT: 13.568 min Scan# 1934

Delta R.T. 0.029 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

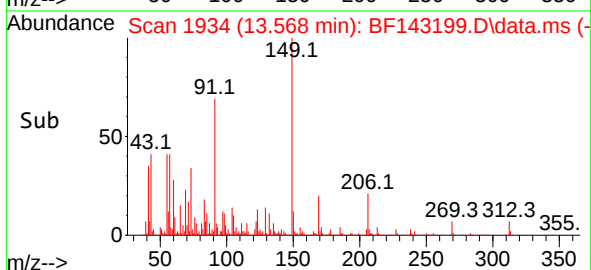
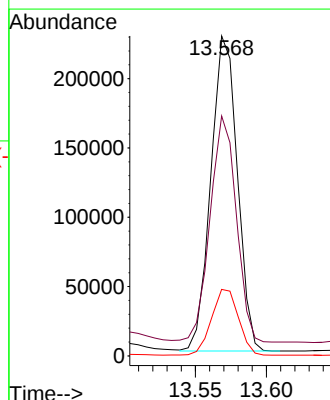
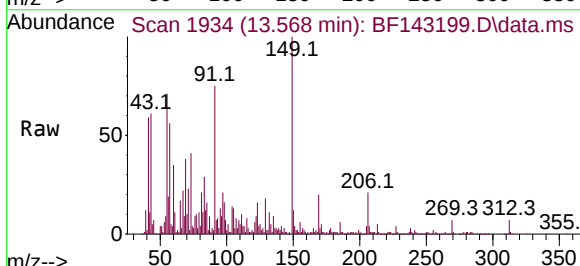
Tgt Ion:149 Resp: 295074

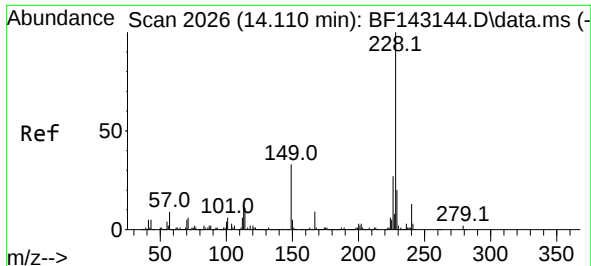
Ion Ratio Lower Upper

149 100

91 75.0 57.9 86.9

206 20.8 17.0 25.4

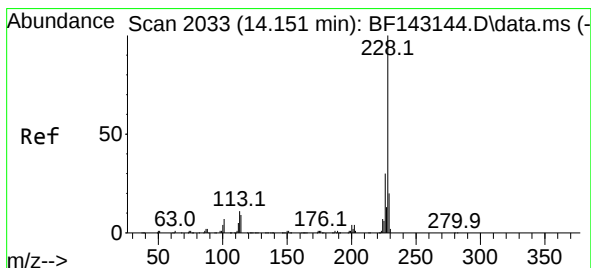
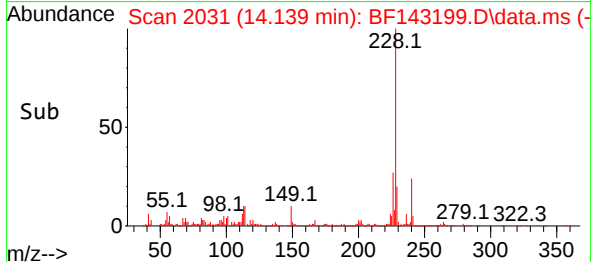
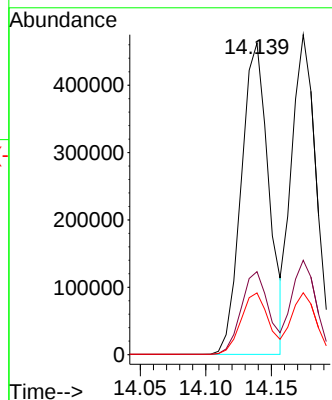
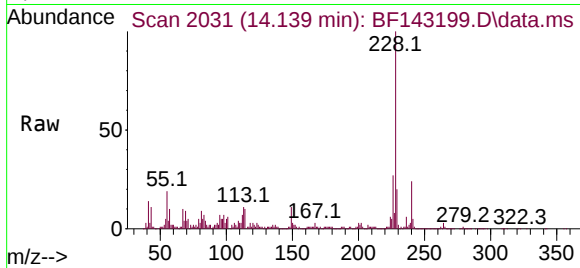




#81
Benzo(a)anthracene
Concen: 39.404 ng
RT: 14.139 min Scan# 20
Delta R.T. 0.029 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

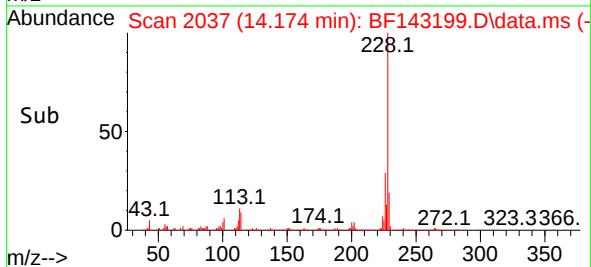
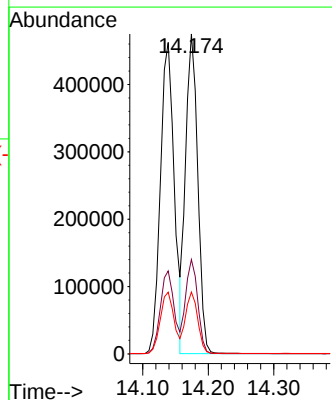
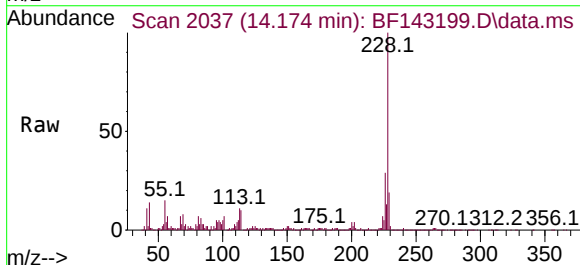
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

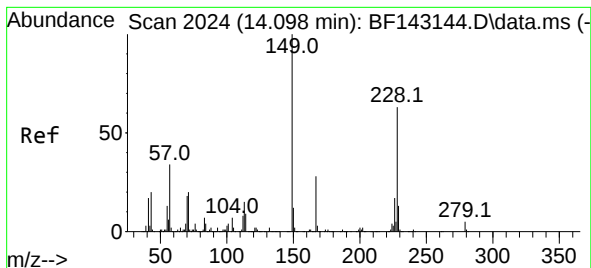
Tgt Ion:228 Resp: 677602
Ion Ratio Lower Upper
228 100
226 26.7 21.7 32.5
229 19.8 15.8 23.6



#83
Chrysene
Concen: 39.784 ng
RT: 14.174 min Scan# 2037
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:228 Resp: 615094
Ion Ratio Lower Upper
228 100
226 29.5 23.8 35.8
229 19.3 15.6 23.4





#84

Bis(2-ethylhexyl)phthalate

Concen: 43.966 ng

RT: 14.121 min Scan# 20

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

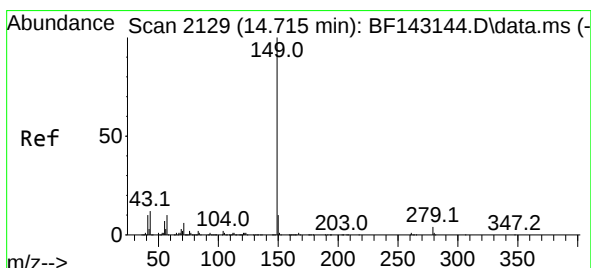
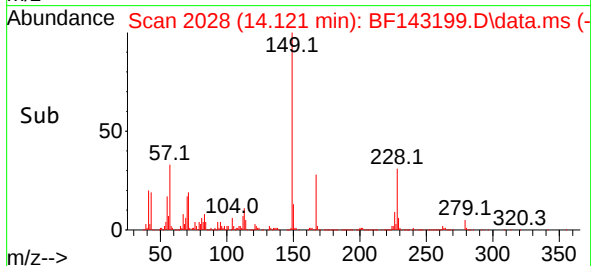
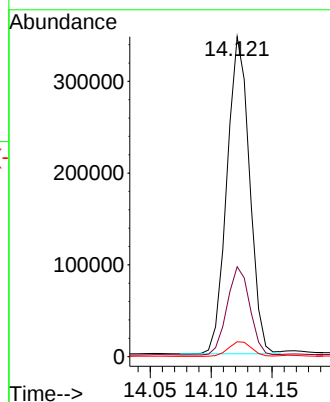
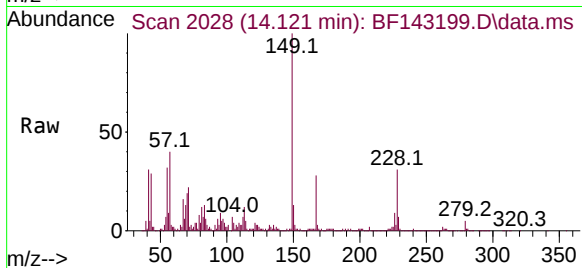
Tgt Ion:149 Resp: 446694

Ion Ratio Lower Upper

149 100

167 28.1 22.3 33.5

279 4.6 3.6 5.4



#85

Di-n-octyl phthalate

Concen: 40.493 ng

RT: 14.727 min Scan# 2131

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

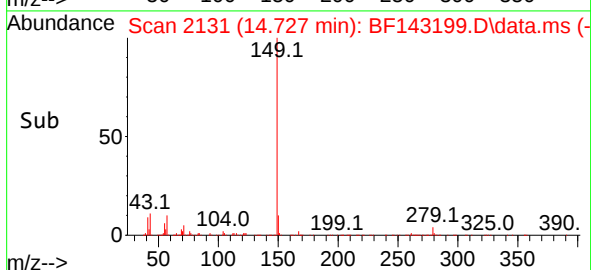
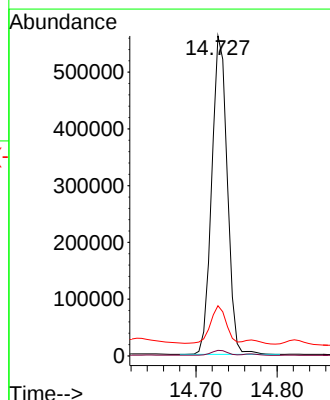
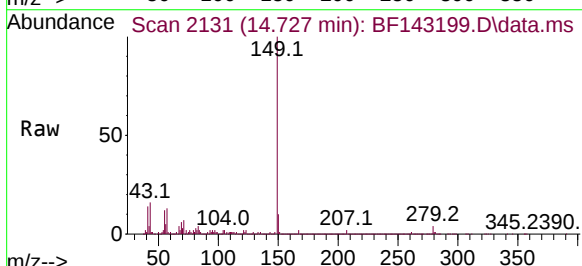
Tgt Ion:149 Resp: 745738

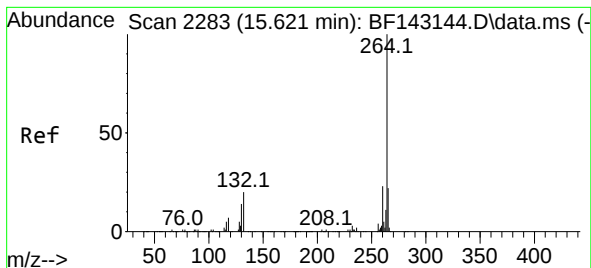
Ion Ratio Lower Upper

149 100

167 1.6 1.1 1.7

43 12.7 9.7 14.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.651 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

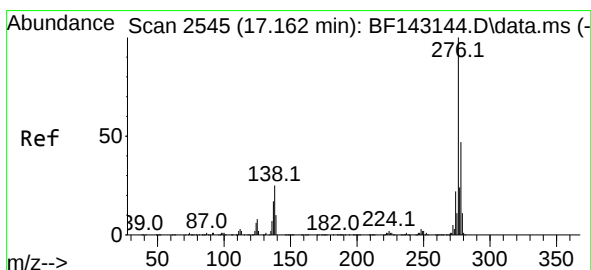
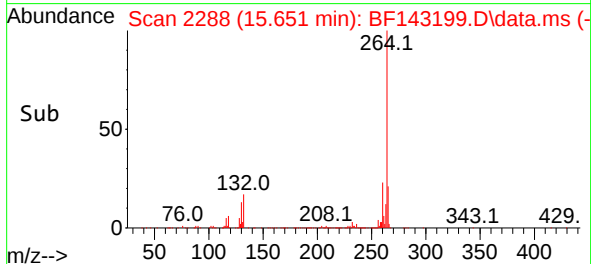
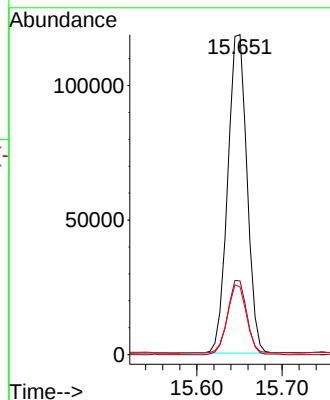
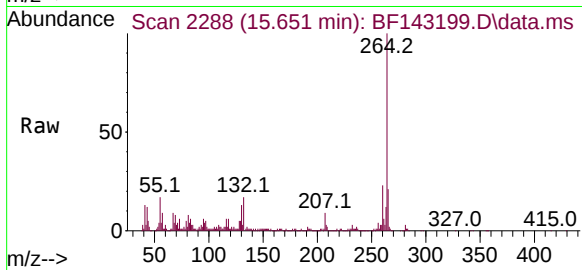
Tgt Ion:264 Resp: 185286

Ion Ratio Lower Upper

264 100

260 23.0 18.5 27.7

265 21.2 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 26.702 ng

RT: 17.180 min Scan# 2548

Delta R.T. 0.018 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

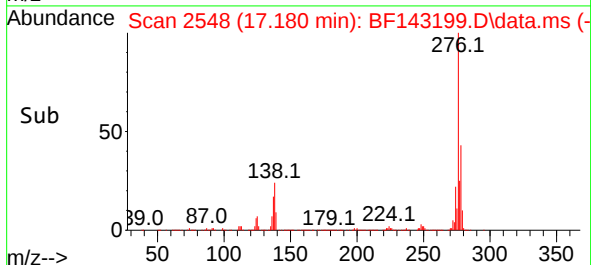
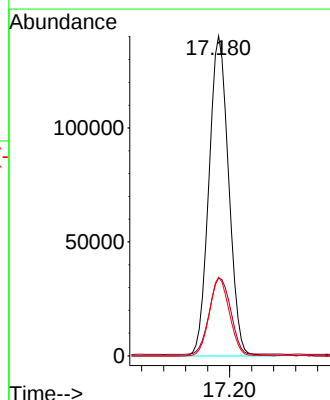
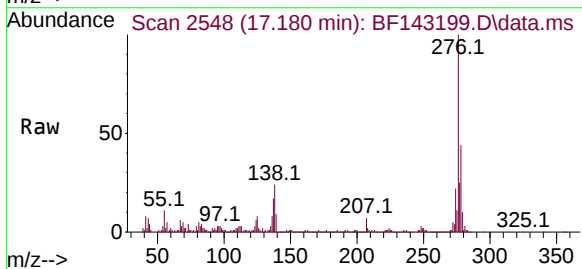
Tgt Ion:276 Resp: 348870

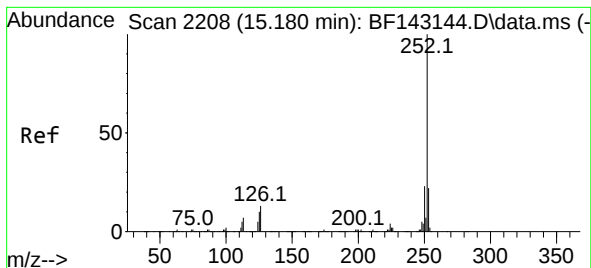
Ion Ratio Lower Upper

276 100

138 25.7 21.8 32.6

277 24.9 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 49.920 ng

RT: 15.204 min Scan# 2212

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

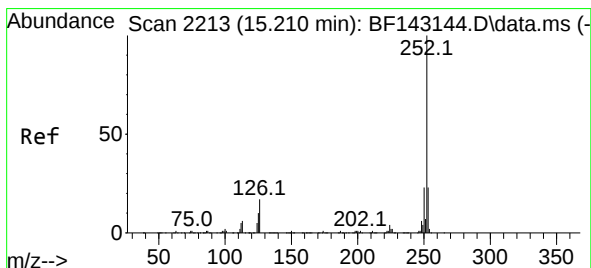
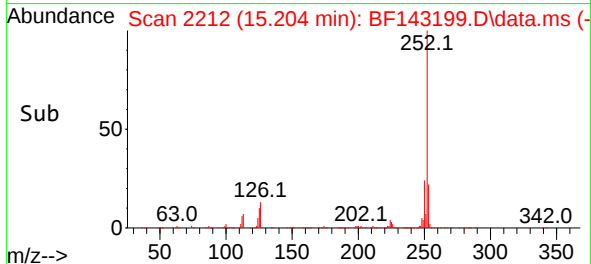
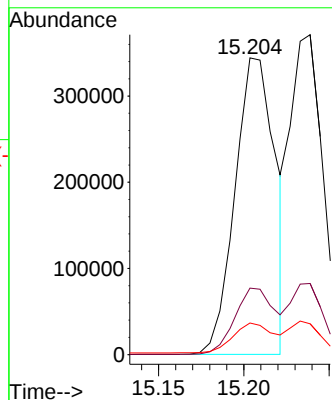
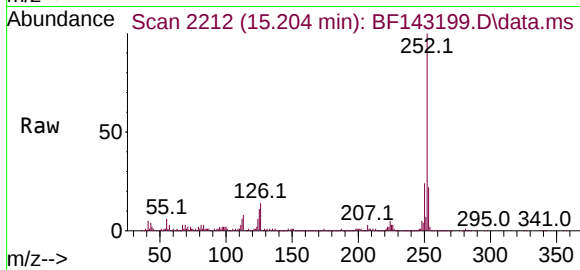
Tgt Ion:252 Resp: 565057

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 10.7 8.0 12.0



#89

Benzo(k)fluoranthene

Concen: 48.735 ng

RT: 15.239 min Scan# 2218

Delta R.T. 0.029 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

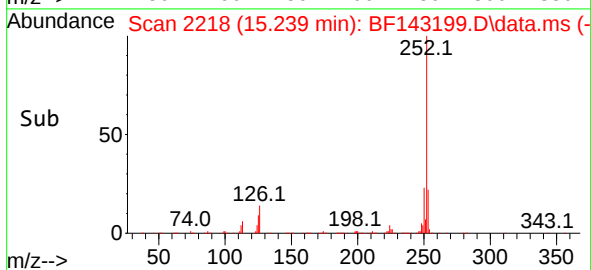
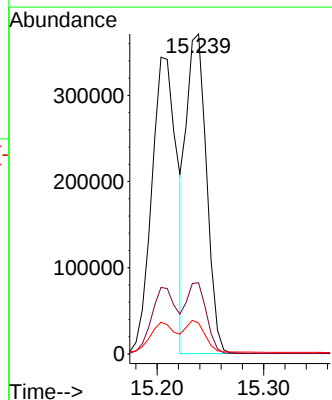
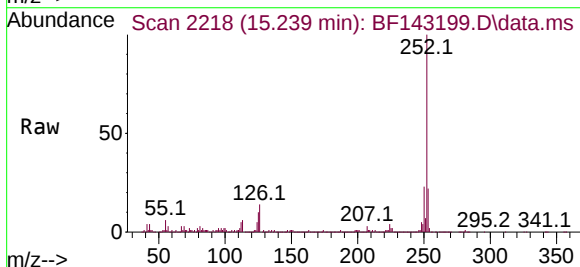
Tgt Ion:252 Resp: 492257

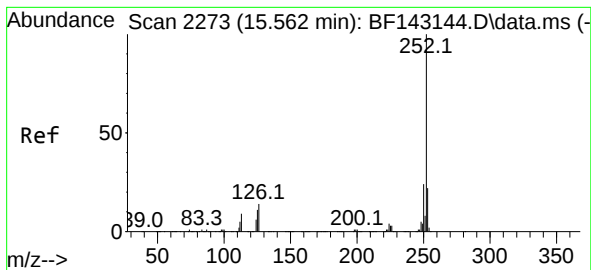
Ion Ratio Lower Upper

252 100

253 22.2 17.8 26.6

125 9.6 8.1 12.1





#90

Benzo(a)pyrene

Concen: 41.215 ng

RT: 15.586 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

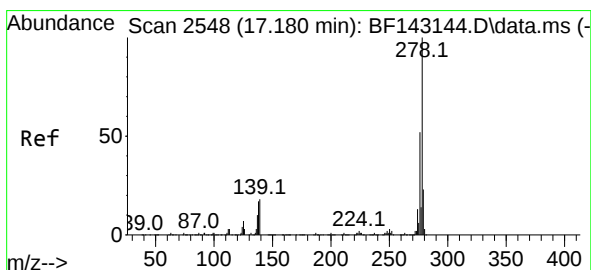
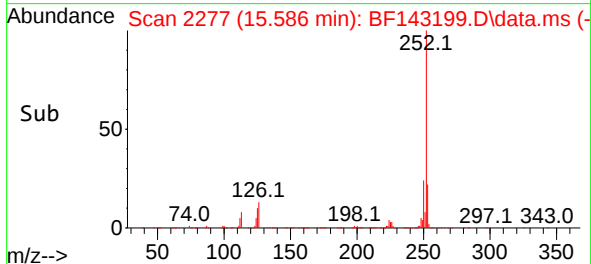
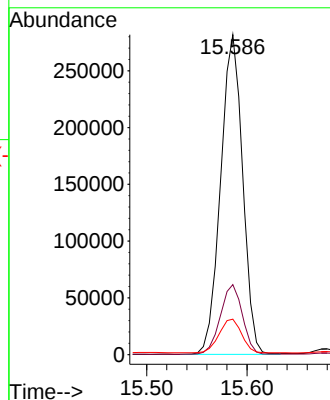
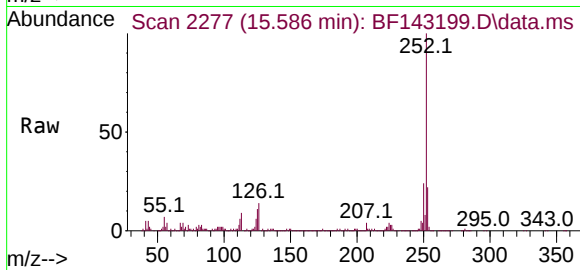
Tgt Ion:252 Resp: 429835

Ion Ratio Lower Upper

252 100

253 21.9 17.3 25.9

125 11.1 8.6 13.0



#91

Dibenzo(a,h)anthracene

Concen: 26.854 ng

RT: 17.198 min Scan# 2551

Delta R.T. 0.018 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

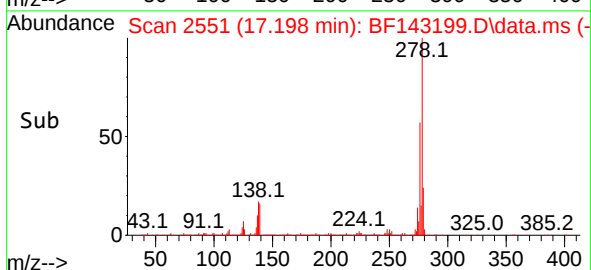
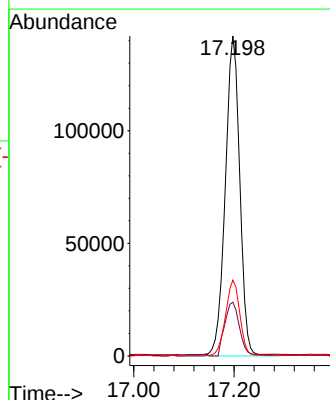
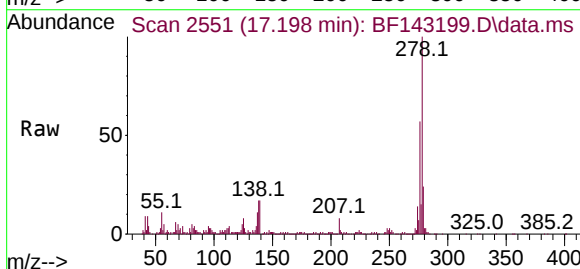
Tgt Ion:278 Resp: 285570

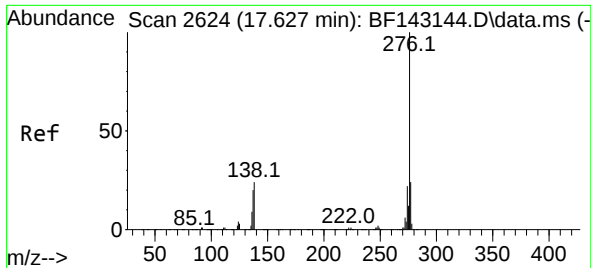
Ion Ratio Lower Upper

278 100

139 16.8 14.1 21.1

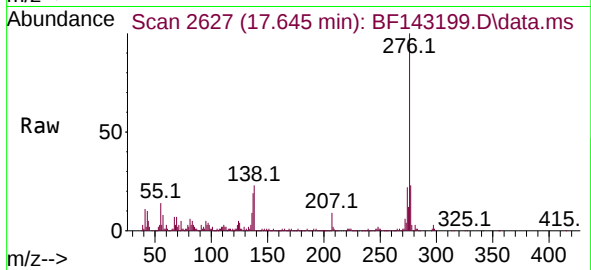
279 23.7 18.6 28.0





#92
 Benzo(g,h,i)perylene
 Concen: 26.941 ng
 RT: 17.645 min Scan# 20
 Delta R.T. 0.018 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20

Instrument :
 BNA_F
 ClientSampleId :
 FRAC TANKMS



Tgt Ion:	276	Resp:	277134
Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.1	28.7
138	22.5	18.9	28.3

