

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052725\
 Data File : BF142560.D
 Acq On : 27 May 2025 14:26
 Operator : RC/JU
 Sample : Q2109-01DL 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-02-MHFDL

Quant Time: May 27 15:11:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

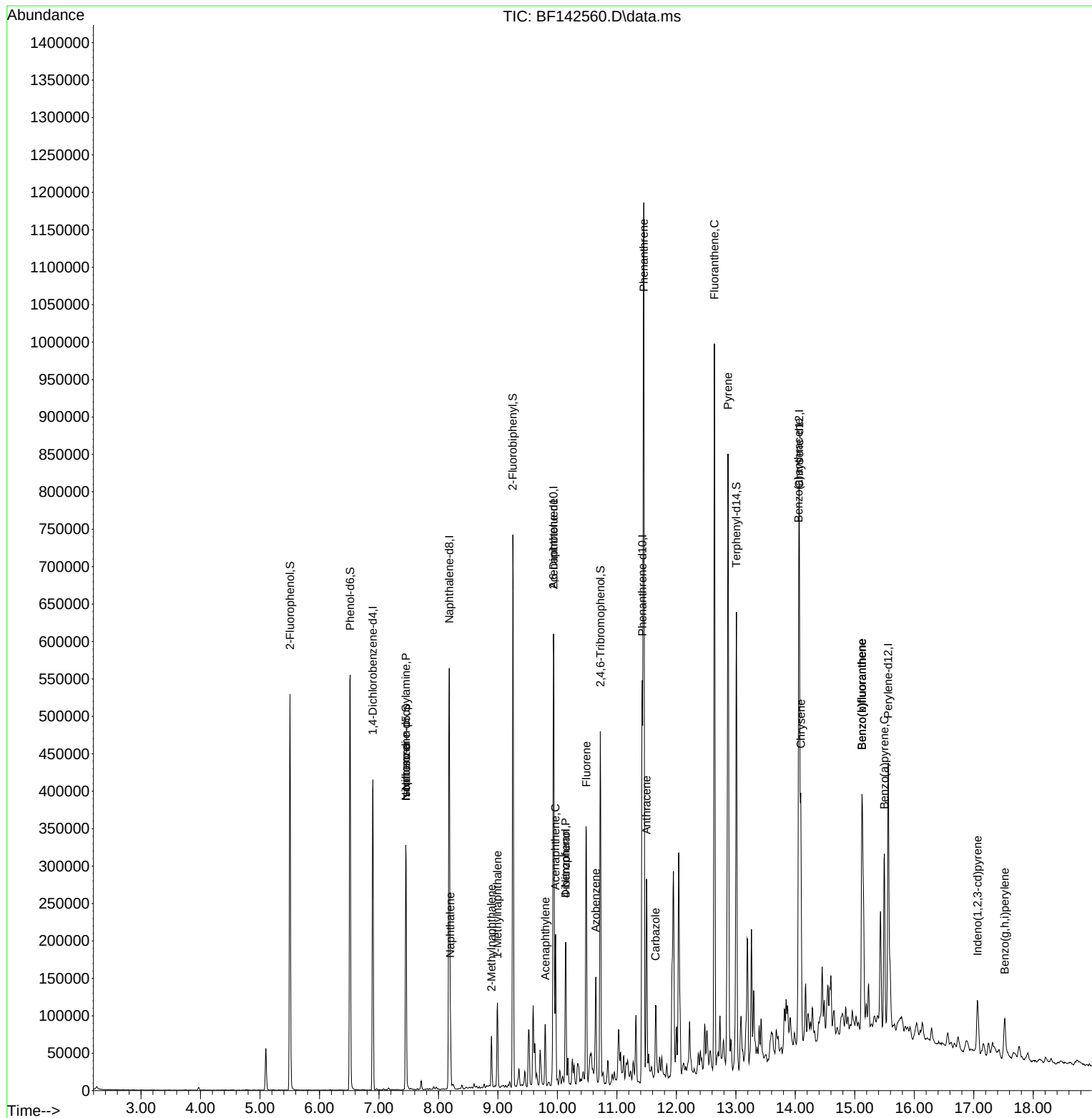
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	92452	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	354098	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	185359	20.000	ng	-0.01
64) Phenanthrene-d10	11.427	188	277492	20.000	ng	0.00
76) Chrysene-d12	14.068	240	220989	20.000	ng	0.00
86) Perylene-d12	15.563	264	208742	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	196989	35.897	ng	-0.01
7) Phenol-d6	6.516	99	260711	39.468	ng	-0.02
23) Nitrobenzene-d5	7.451	82	135916	20.930	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	70221	34.133	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	329171	23.830	ng	-0.02
79) Terphenyl-d14	13.010	244	289027	17.873	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.451	70	18189	4.443	ng	# 78
25) Isophorone	7.451	82	123977	11.419	ng	# 63
31) Naphthalene	8.198	128	48750	2.796	ng	98
37) 2-Methylnaphthalene	8.892	142	26690	2.433	ng	100
38) 1-Methylnaphthalene	8.992	142	42312	3.729	ng	99
49) Acenaphthylene	9.798	152	38580	2.150	ng	98
51) 2,6-Dinitrotoluene	9.933	165	24792	9.392	ng	# 28
52) Acenaphthene	9.969	154	58770	5.365	ng	99
55) Dibenzofuran	10.139	168	92153	5.846	ng	96
56) 4-Nitrophenol	10.139	139	33690	15.836	ng	# 12
58) Fluorene	10.486	166	142338	11.687	ng	99
63) Azobenzene	10.645	77	22516	2.099	ng	# 1
71) Phenanthrene	11.451	178	629306	42.436	ng	99
72) Anthracene	11.498	178	152774	10.094	ng	99
73) Carbazole	11.651	167	53247	4.115	ng	99
75) Fluoranthene	12.639	202	553955	39.977	ng	99
78) Pyrene	12.869	202	481964	23.379	ng	98
81) Benzo(a)anthracene	14.057	228	232454	15.753	ng	95
83) Chrysene	14.092	228	170682	12.872	ng	98
87) Indeno(1,2,3-cd)pyrene	17.062	276	52116	3.326	ng	96
88) Benzo(b)fluoranthene	15.121	252	297493	24.080	ng	# 96
89) Benzo(k)fluoranthene	15.121	252	297493	25.710	ng	# 96
90) Benzo(a)pyrene	15.498	252	149408	12.830	ng	99
92) Benzo(g,h,i)perylene	17.521	276	45848	3.606	ng	97

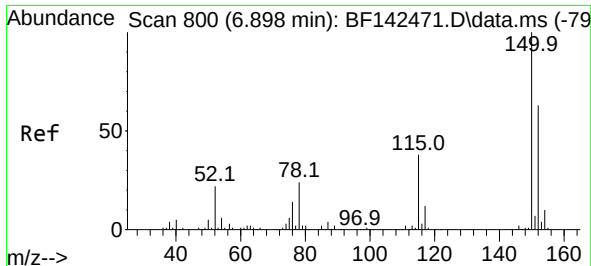
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052725\
Data File : BF142560.D
Acq On : 27 May 2025 14:26
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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Time: May 27 15:11:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

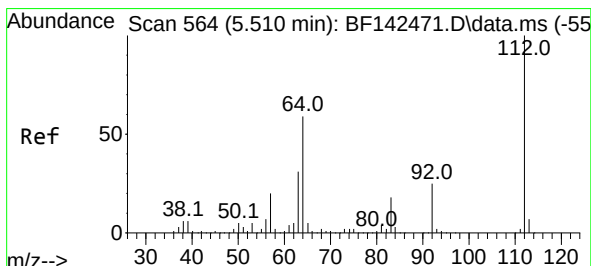
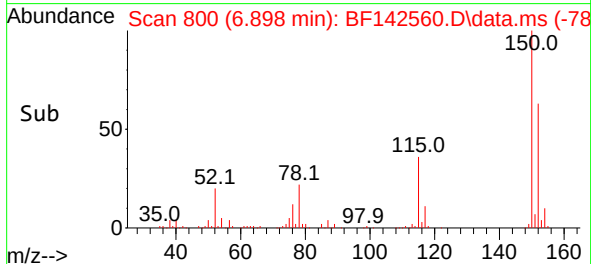
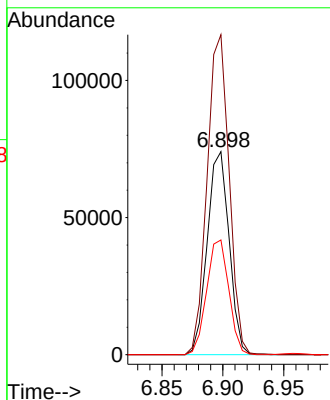
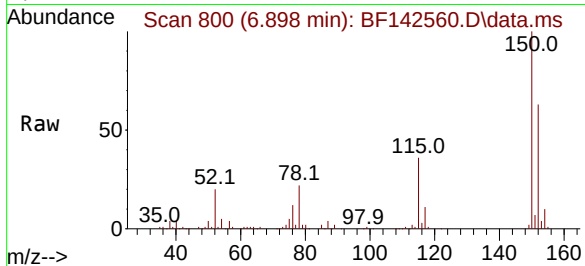




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.898 min Scan# 800
 Delta R.T. -0.006 min
 Lab File: BF142560.D
 Acq: 27 May 2025 14:26

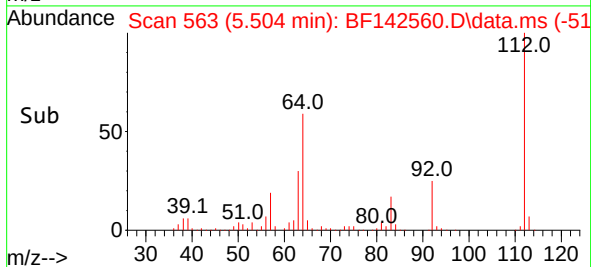
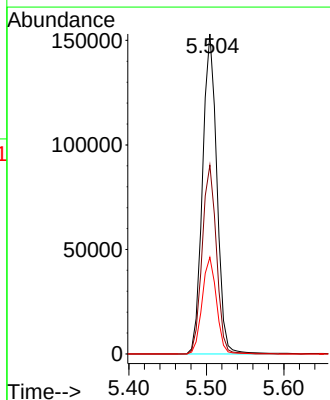
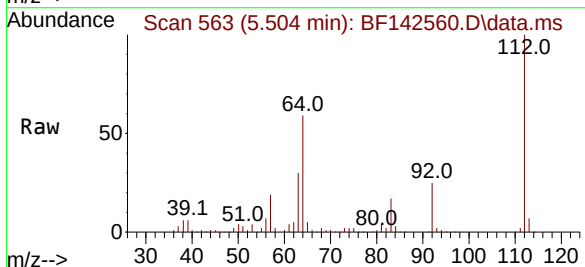
Instrument :
 BNA_F
 ClientSampleId :
 TP-02-MHFDL

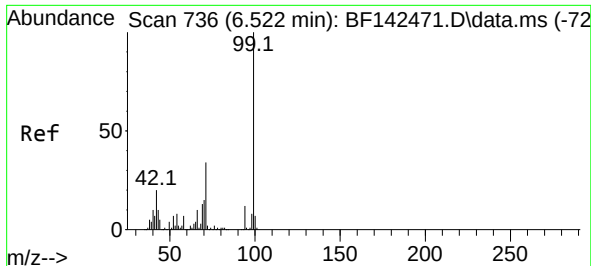
Tgt Ion:152 Resp: 92452
 Ion Ratio Lower Upper
 152 100
 150 157.6 128.2 192.4
 115 56.5 48.3 72.5



#5
 2-Fluorophenol
 Concen: 35.897 ng
 RT: 5.504 min Scan# 563
 Delta R.T. -0.012 min
 Lab File: BF142560.D
 Acq: 27 May 2025 14:26

Tgt Ion:112 Resp: 196989
 Ion Ratio Lower Upper
 112 100
 64 59.0 47.5 71.3
 63 30.2 24.9 37.3

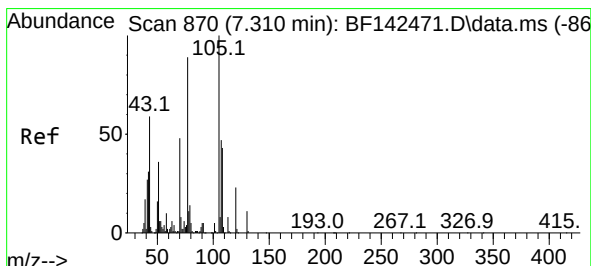
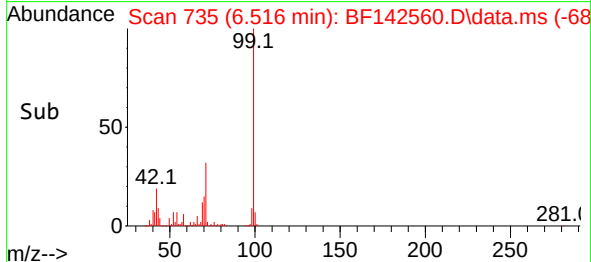
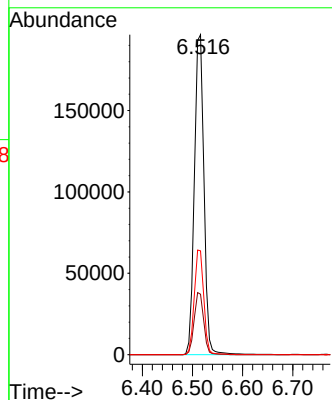
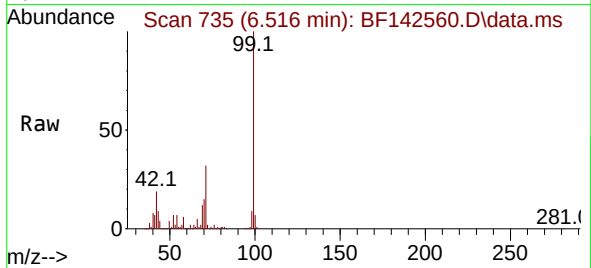




#7
Phenol-d6
Concen: 39.468 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

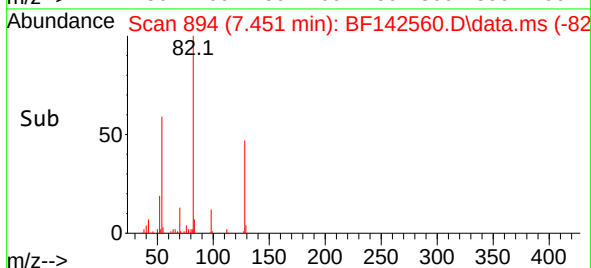
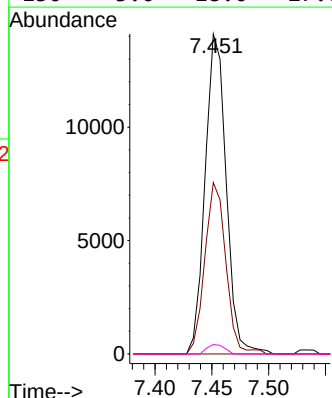
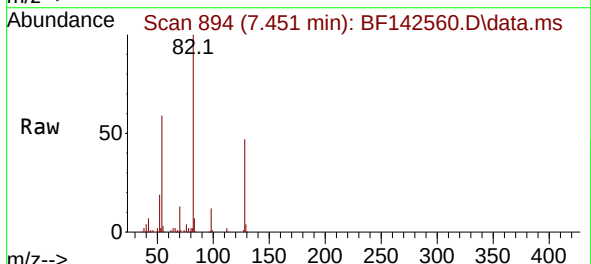
Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

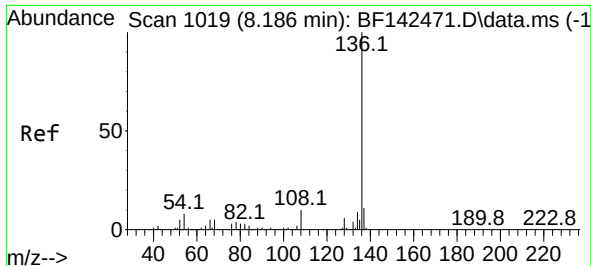
Tgt Ion: 99 Resp: 260711
Ion Ratio Lower Upper
99 100
42 18.9 16.2 24.2
71 32.5 27.3 40.9



#19
n-Nitroso-di-n-propylamine
Concen: 4.443 ng
RT: 7.451 min Scan# 894
Delta R.T. 0.124 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion: 70 Resp: 18189
Ion Ratio Lower Upper
70 100
42 53.5 52.4 78.6
101 0.0 7.8 11.8#
130 3.0 18.0 27.0#

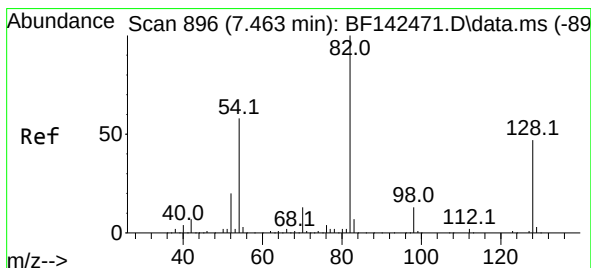
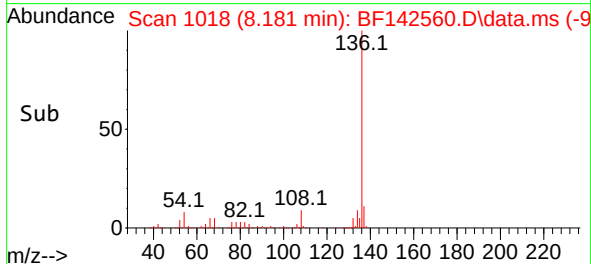
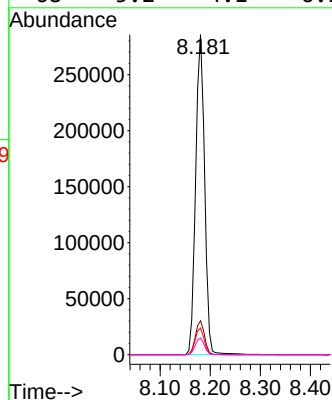
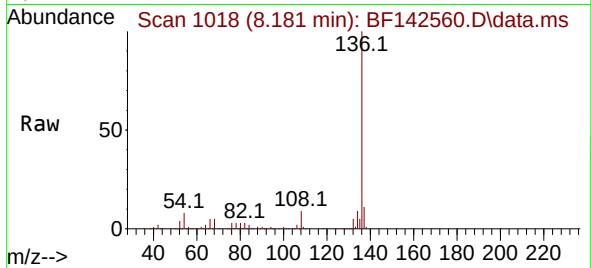




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

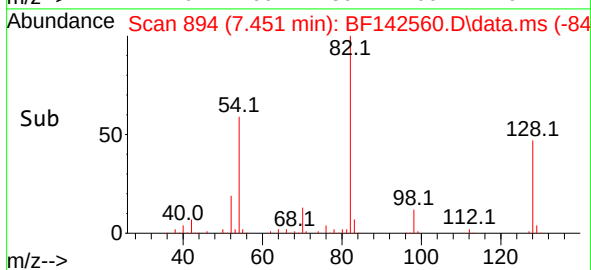
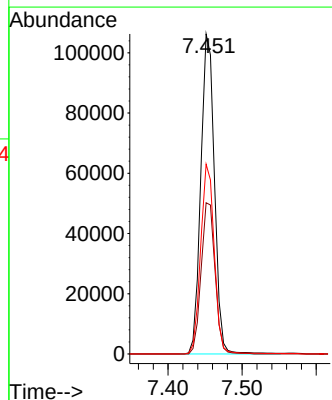
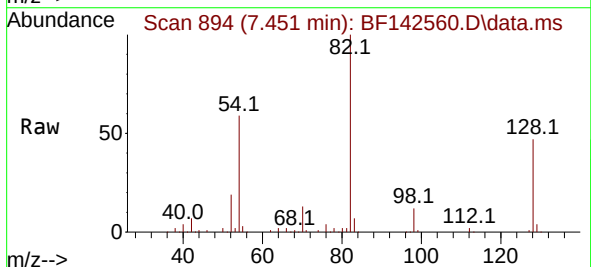
Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

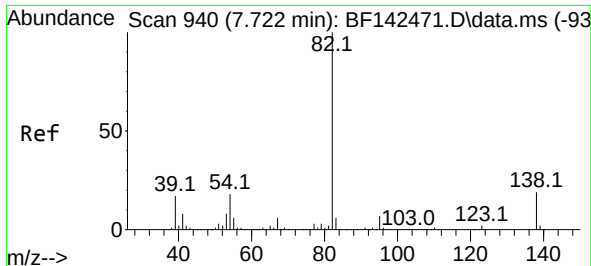
Tgt Ion:136 Resp: 354098
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 8.3 6.6 10.0
68 5.2 4.1 6.1



#23
Nitrobenzene-d5
Concen: 20.930 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.023 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion: 82 Resp: 135916
Ion Ratio Lower Upper
82 100
128 47.3 37.4 56.2
54 59.3 46.6 70.0

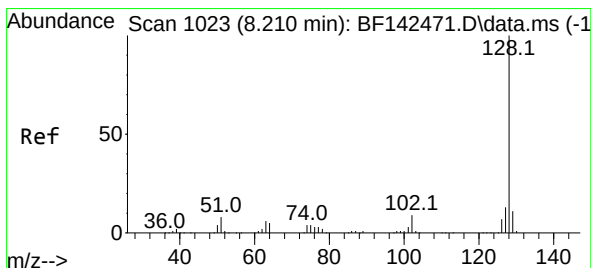
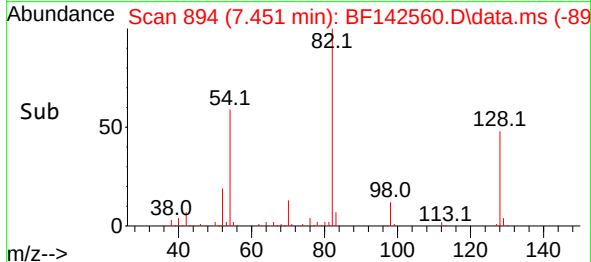
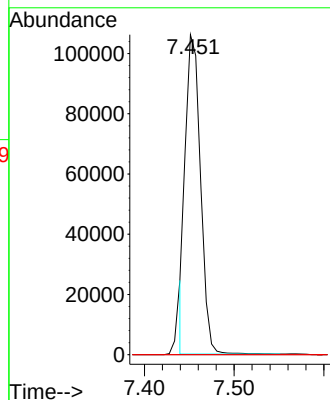
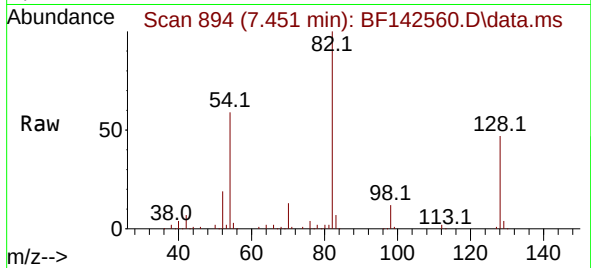




#25
Isophorone
Concen: 11.419 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.282 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

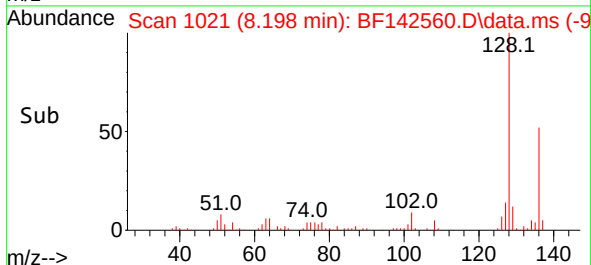
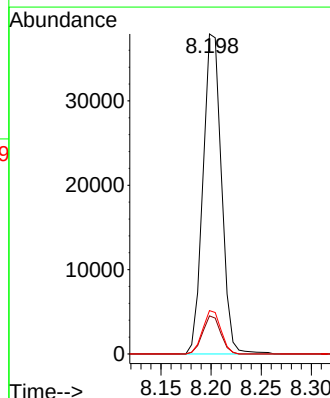
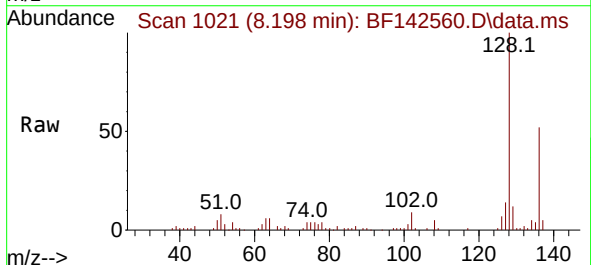
Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

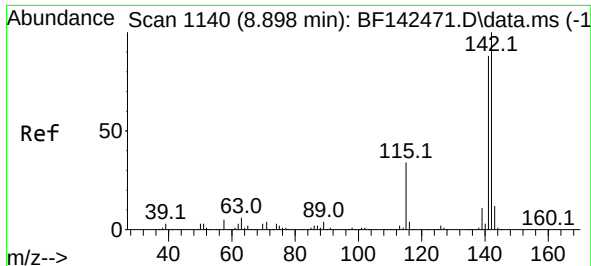
Tgt Ion: 82 Resp: 123977
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 15.5 23.3#



#31
Naphthalene
Concen: 2.796 ng
RT: 8.198 min Scan# 1021
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion: 128 Resp: 48750
Ion Ratio Lower Upper
128 100
129 11.9 8.9 13.3
127 13.5 10.5 15.7





#37

2-Methylnaphthalene

Concen: 2.433 ng

RT: 8.892 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

Instrument :

BNA_F

ClientSampleId :

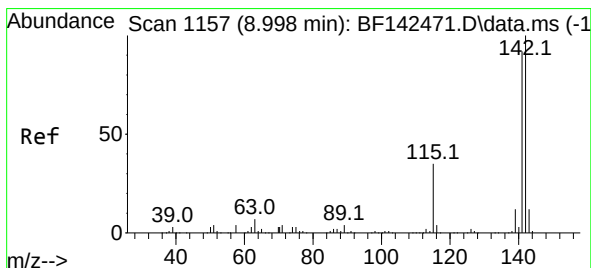
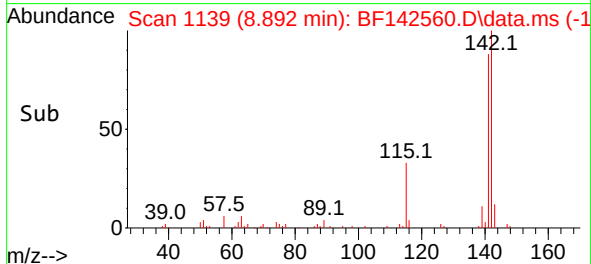
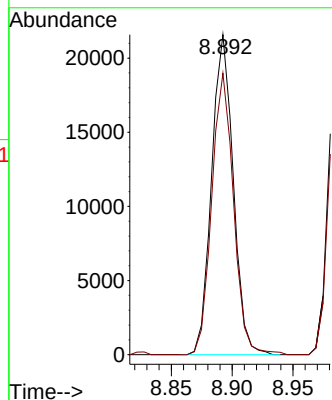
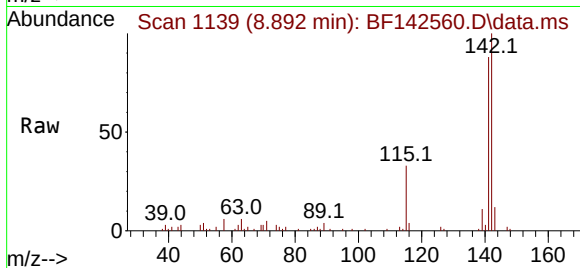
TP-02-MHFDL

Tgt Ion:142 Resp: 26690

Ion Ratio Lower Upper

142 100

141 88.0 70.7 106.1



#38

1-Methylnaphthalene

Concen: 3.729 ng

RT: 8.992 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF142560.D

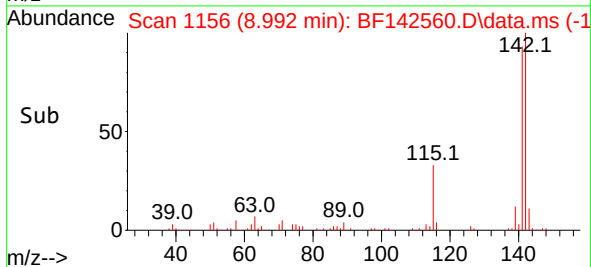
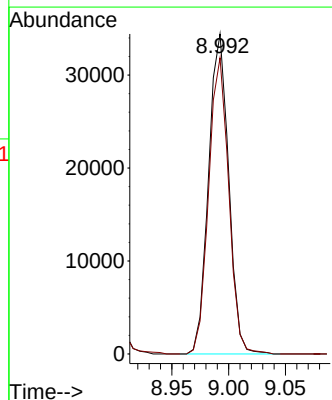
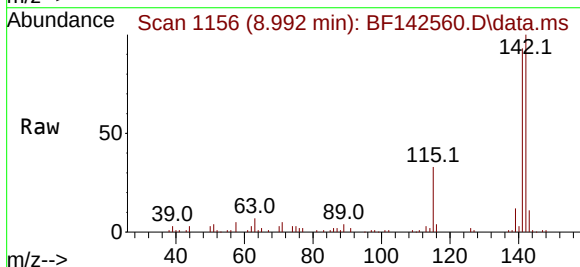
Acq: 27 May 2025 14:26

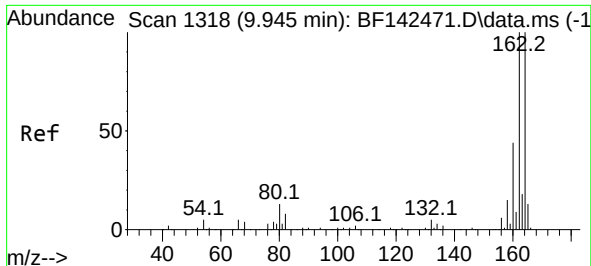
Tgt Ion:142 Resp: 42312

Ion Ratio Lower Upper

142 100

141 92.6 73.4 110.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.933 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

Instrument :

BNA_F

ClientSampleId :

TP-02-MHFDL

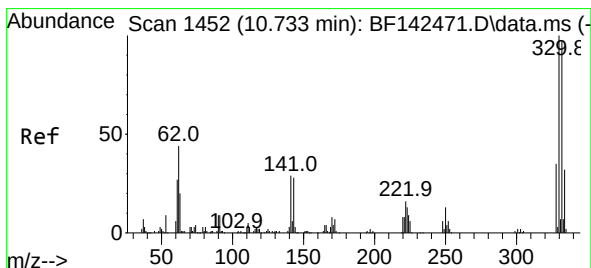
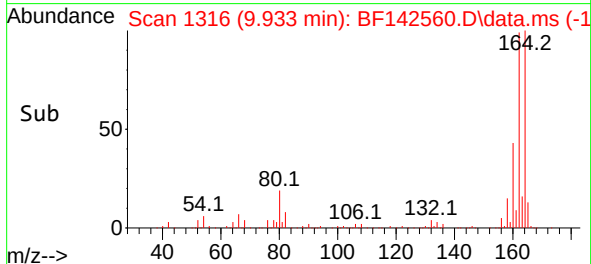
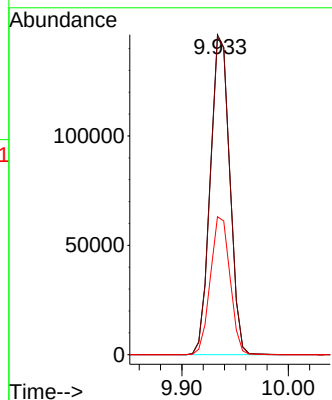
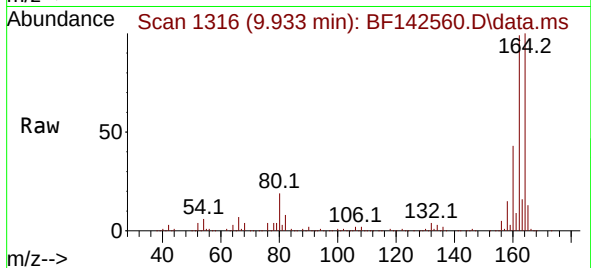
Tgt Ion:164 Resp: 185359

Ion Ratio Lower Upper

164 100

162 99.3 80.2 120.4

160 43.1 35.6 53.4



#42

2,4,6-Tribromophenol

Concen: 34.133 ng

RT: 10.722 min Scan# 1450

Delta R.T. -0.018 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

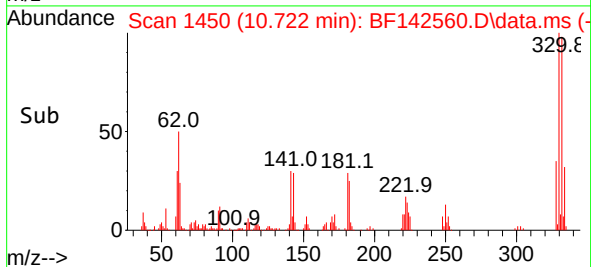
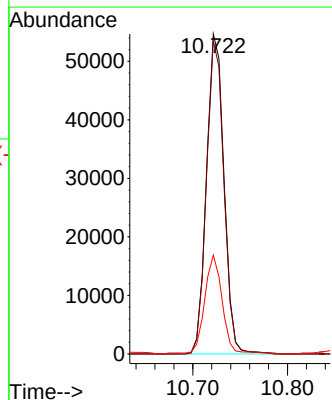
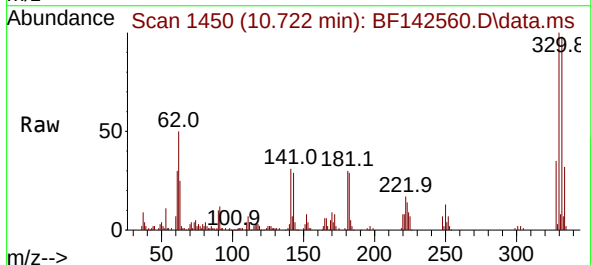
Tgt Ion:330 Resp: 70221

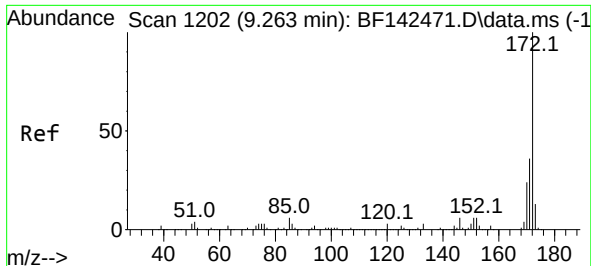
Ion Ratio Lower Upper

330 100

332 97.1 77.6 116.4

141 31.4 24.6 36.8

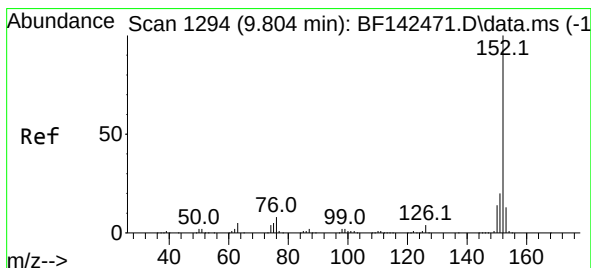
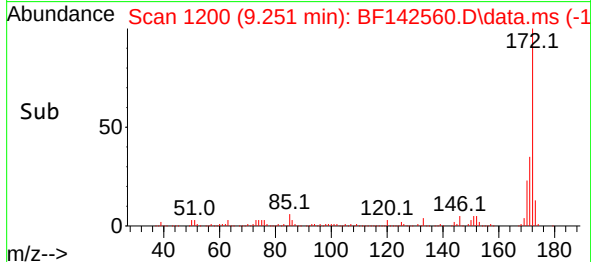
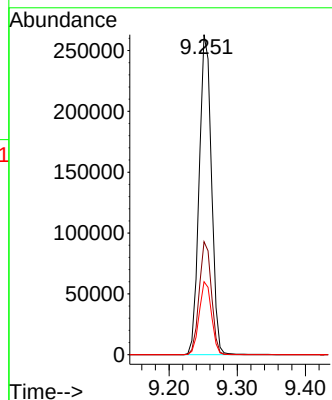
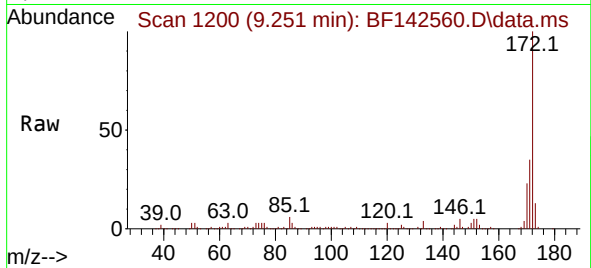




#45
2-Fluorobiphenyl
Concen: 23.830 ng
RT: 9.251 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

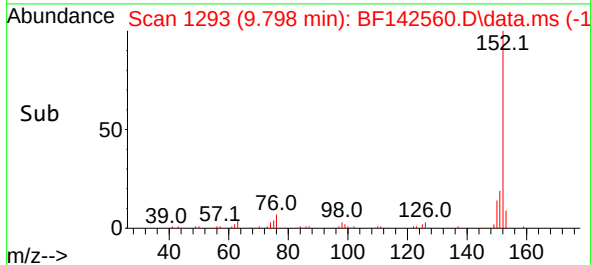
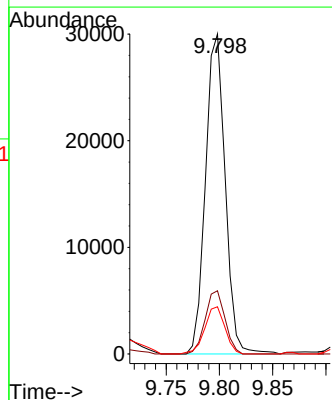
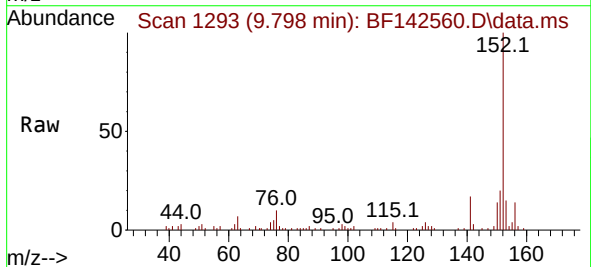
Instrument :
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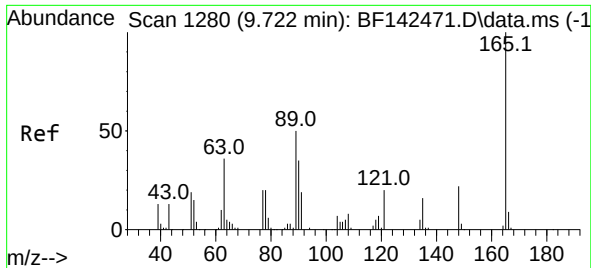
Tgt Ion:172 Resp: 329171
Ion Ratio Lower Upper
172 100
171 35.3 28.6 42.8
170 22.8 18.9 28.3



#49
Acenaphthylene
Concen: 2.150 ng
RT: 9.798 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:152 Resp: 38580
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 14.7 10.6 15.8

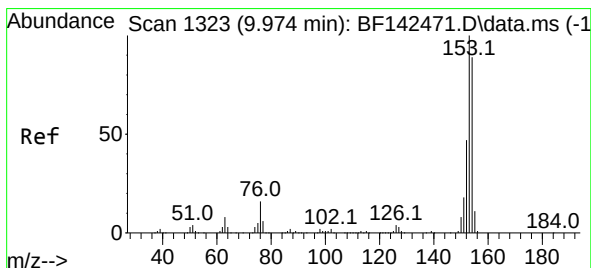
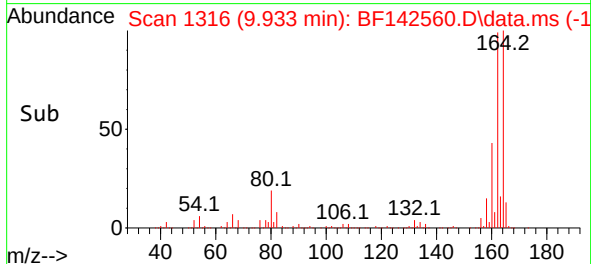
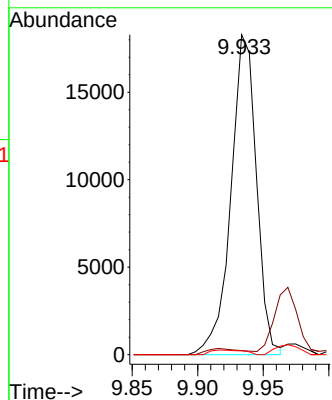
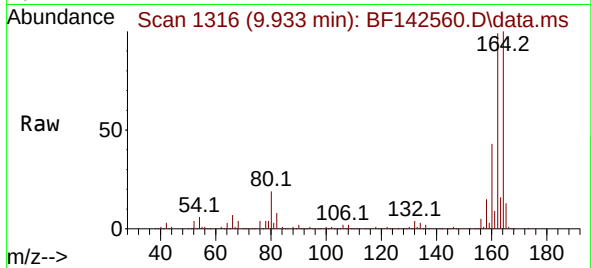




#51
2,6-Dinitrotoluene
Concen: 9.392 ng
RT: 9.933 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

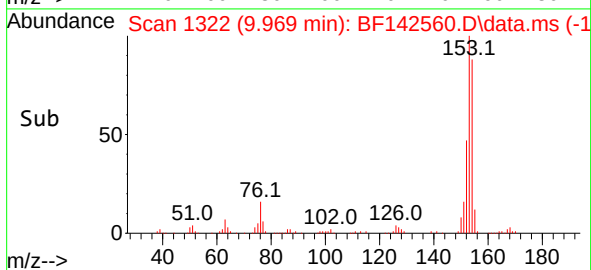
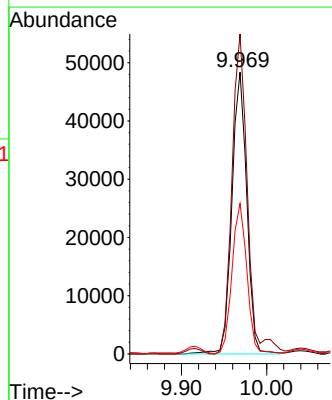
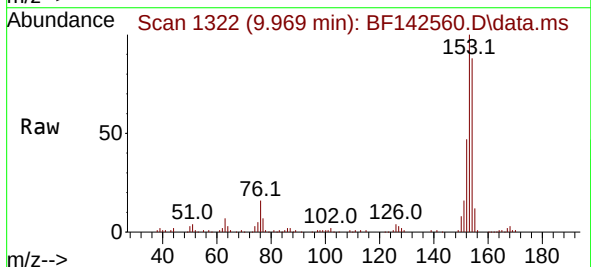
Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

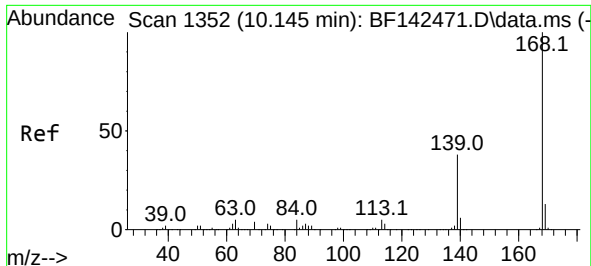
Tgt Ion:165 Resp: 24792
Ion Ratio Lower Upper
165 100
63 1.3 42.9 64.3#
89 1.2 40.2 60.4#



#52
Acenaphthene
Concen: 5.365 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:154 Resp: 58770
Ion Ratio Lower Upper
154 100
153 113.6 90.0 135.0
152 53.4 42.6 64.0

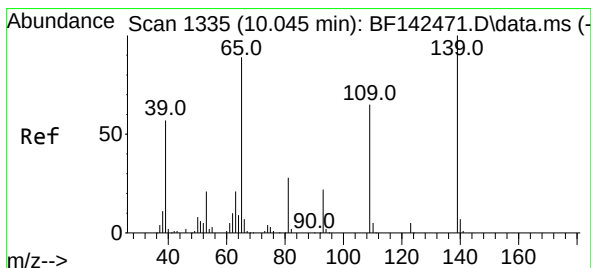
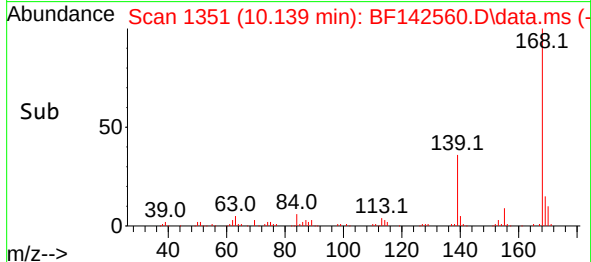
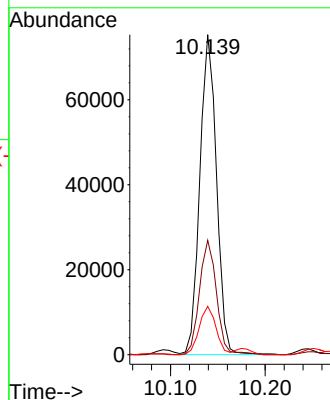
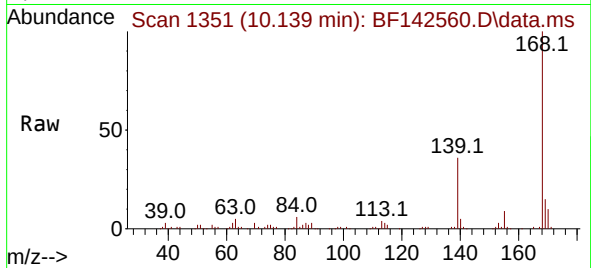




#55
Dibenzenofuran
Concen: 5.846 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

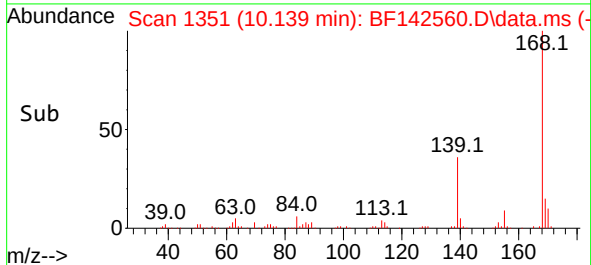
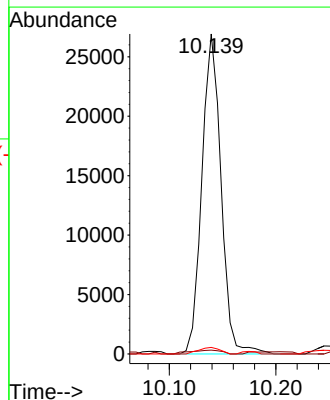
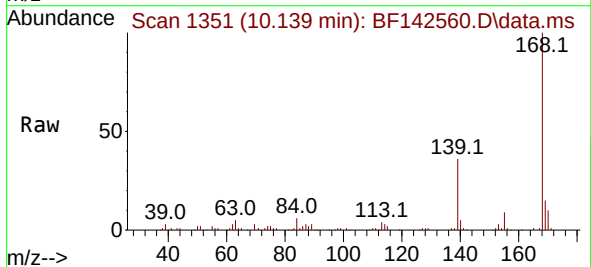
Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

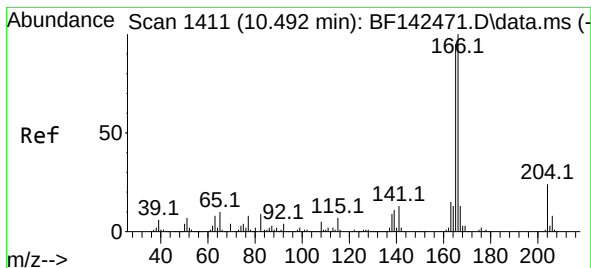
Tgt Ion:168 Resp: 92153
Ion Ratio Lower Upper
168 100
139 35.7 30.2 45.2
169 15.1 10.7 16.1



#56
4-Nitrophenol
Concen: 15.836 ng
RT: 10.139 min Scan# 1351
Delta R.T. 0.088 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:139 Resp: 33690
Ion Ratio Lower Upper
139 100
109 1.2 45.1 85.1#
65 2.1 69.7 109.7#





#58

Fluorene

Concen: 11.687 ng

RT: 10.486 min Scan# 1411

Delta R.T. -0.012 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

Instrument :

BNA_F

ClientSampleId :

TP-02-MHFDL

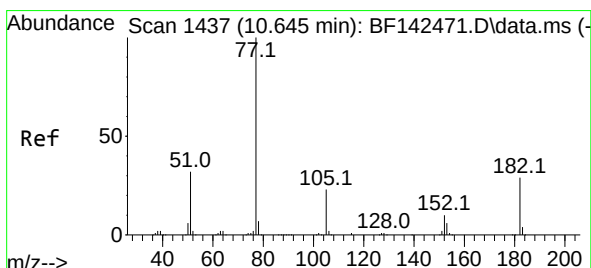
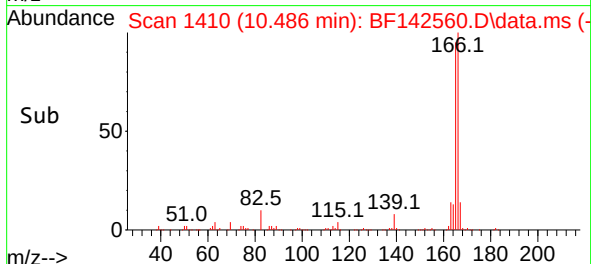
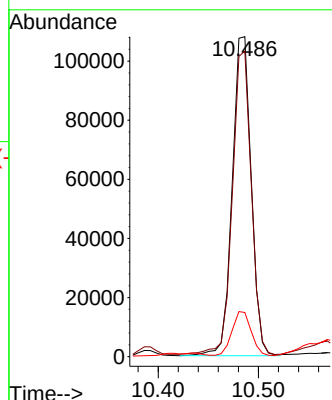
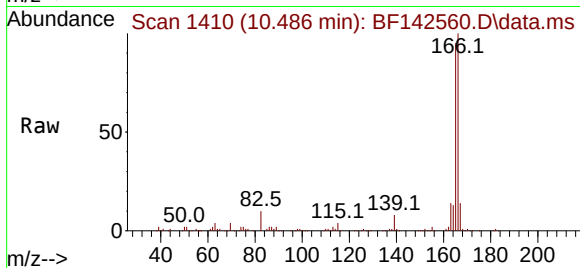
Tgt Ion:166 Resp: 142338

Ion Ratio Lower Upper

166 100

165 95.5 75.8 113.8

167 13.8 10.6 16.0



#63

Azobenzene

Concen: 2.099 ng

RT: 10.645 min Scan# 1437

Delta R.T. 0.000 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

Tgt Ion: 77 Resp: 22516

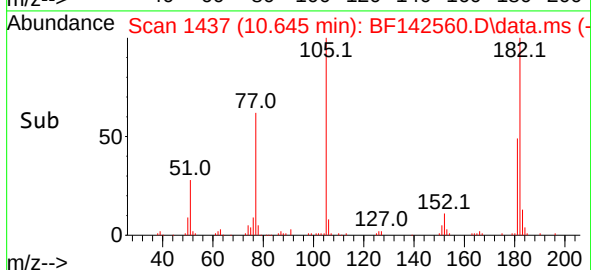
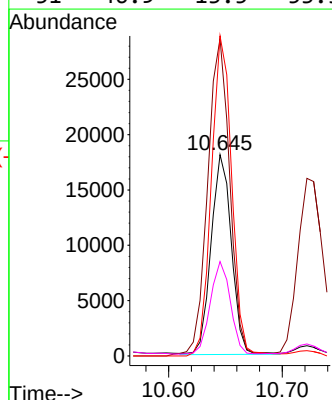
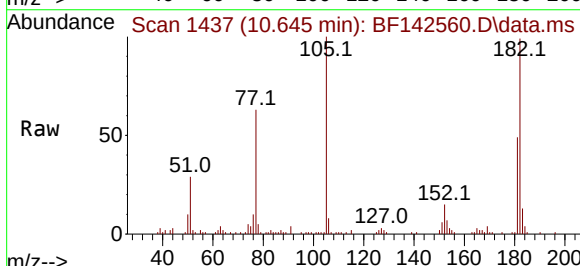
Ion Ratio Lower Upper

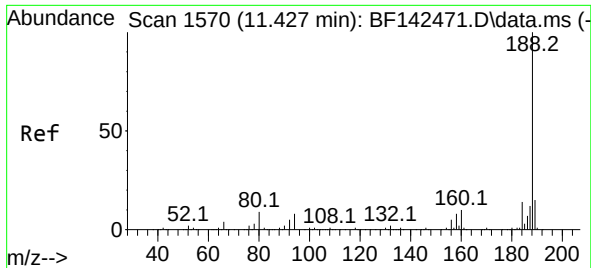
77 100

182 157.8 9.0 49.0#

105 159.0 2.4 42.4#

51 46.9 13.5 53.5

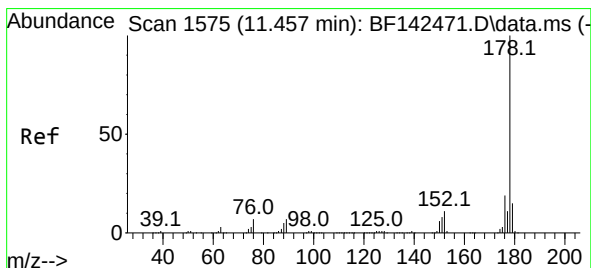
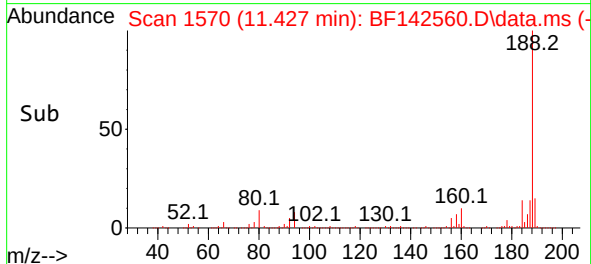
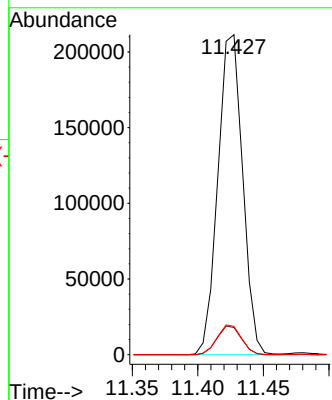
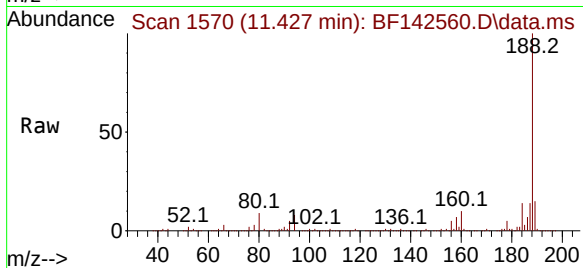




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

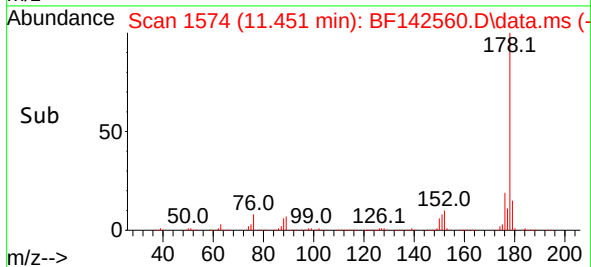
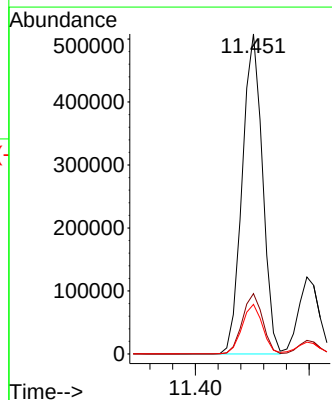
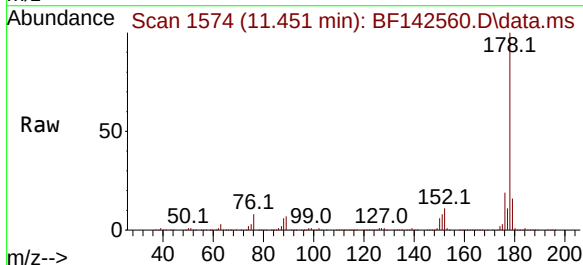
Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

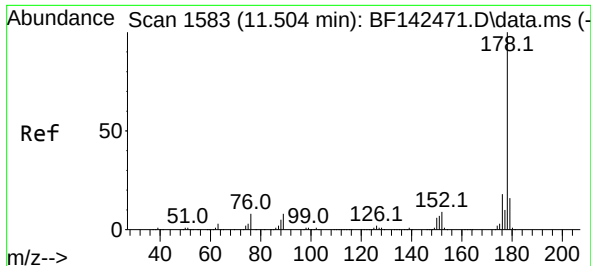
Tgt Ion:188 Resp: 277492
Ion Ratio Lower Upper
188 100
94 8.5 6.6 10.0
80 8.9 7.4 11.0



#71
Phenanthrene
Concen: 42.436 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:178 Resp: 629306
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 15.5 12.3 18.5

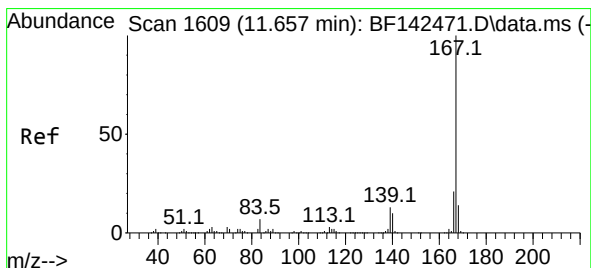
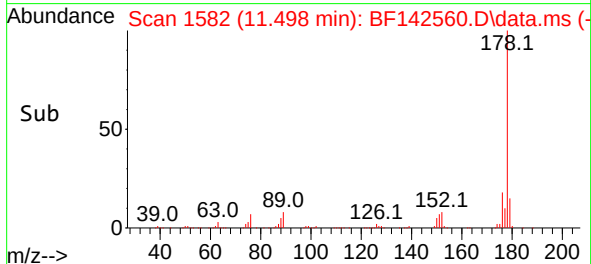
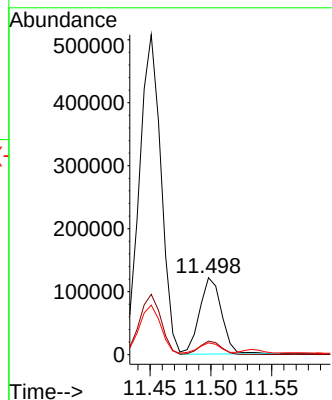
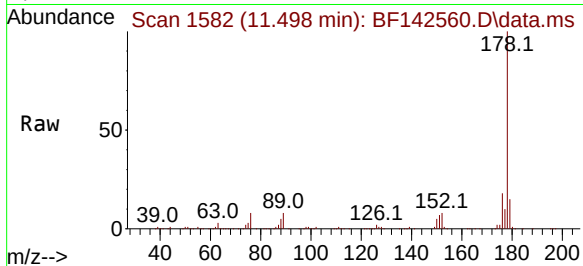




#72
 Anthracene
 Concen: 10.094 ng
 RT: 11.498 min Scan# 1583
 Delta R.T. -0.012 min
 Lab File: BF142560.D
 Acq: 27 May 2025 14:26

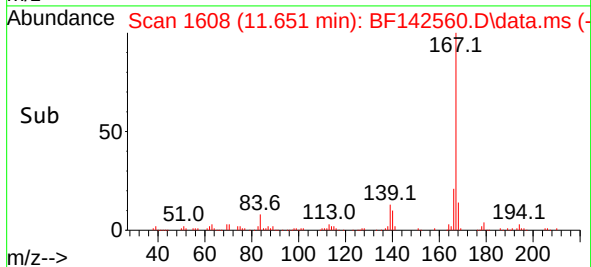
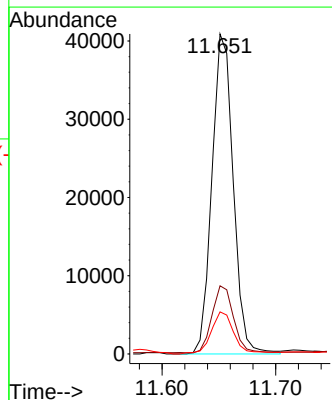
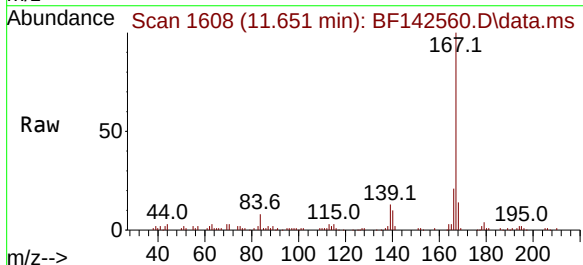
Instrument :
 BNA_F
 ClientSampleId :
 TP-02-MHFDL

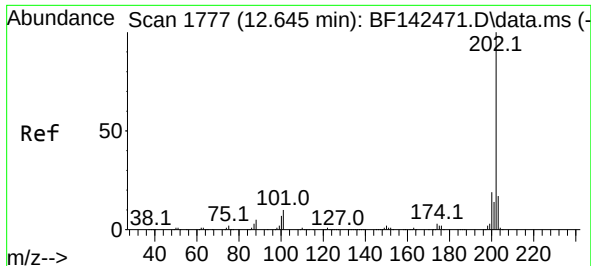
Tgt Ion:178 Resp: 152774
 Ion Ratio Lower Upper
 178 100
 176 17.6 14.6 21.8
 179 15.4 12.4 18.6



#73
 Carbazole
 Concen: 4.115 ng
 RT: 11.651 min Scan# 1608
 Delta R.T. -0.012 min
 Lab File: BF142560.D
 Acq: 27 May 2025 14:26

Tgt Ion:167 Resp: 53247
 Ion Ratio Lower Upper
 167 100
 166 21.3 16.9 25.3
 139 13.2 10.2 15.4

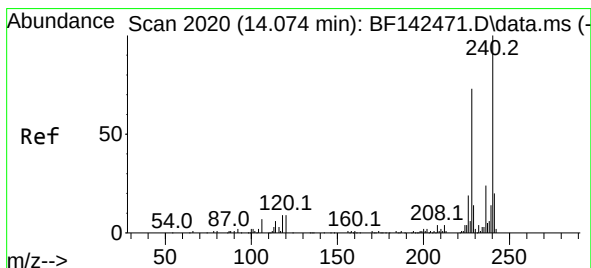
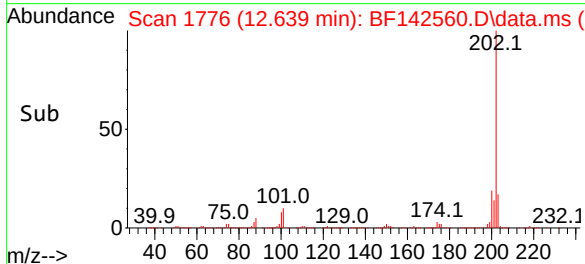
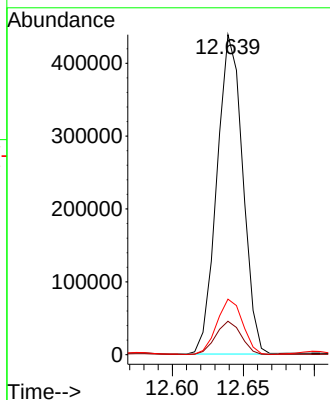
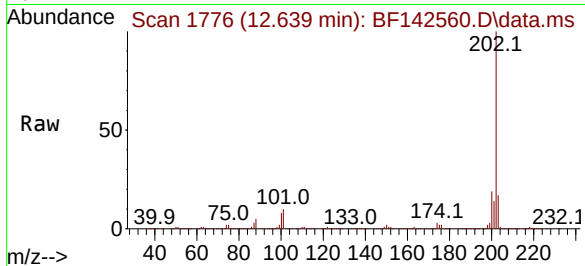




#75
Fluoranthene
Concen: 39.977 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

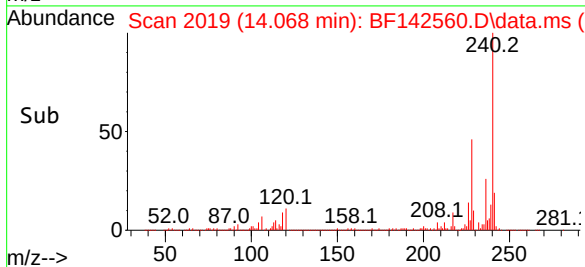
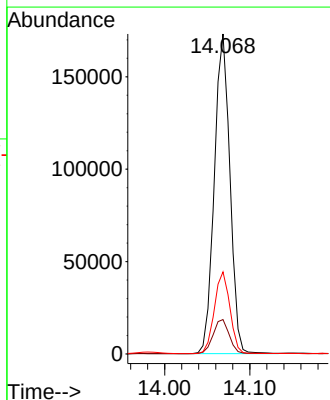
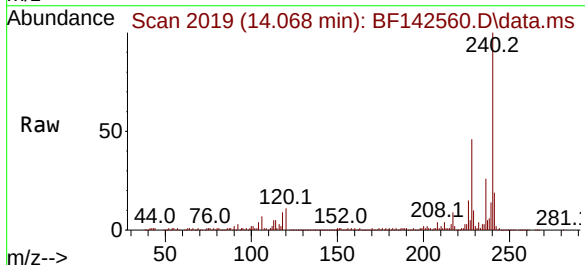
Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

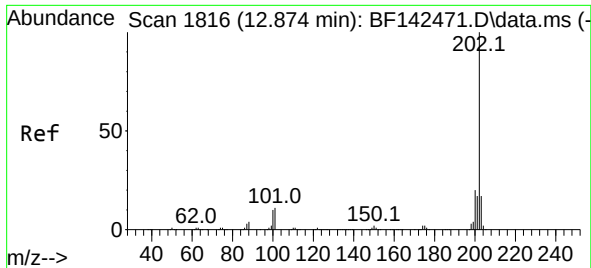
Tgt Ion:202 Resp: 553955
Ion Ratio Lower Upper
202 100
101 10.4 0.0 29.6
203 17.4 0.0 37.2



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:240 Resp: 220989
Ion Ratio Lower Upper
240 100
120 10.7 7.5 11.3
236 25.6 19.6 29.4

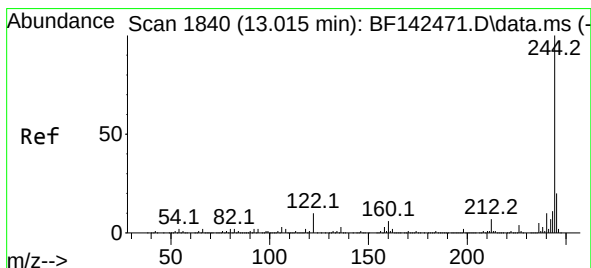
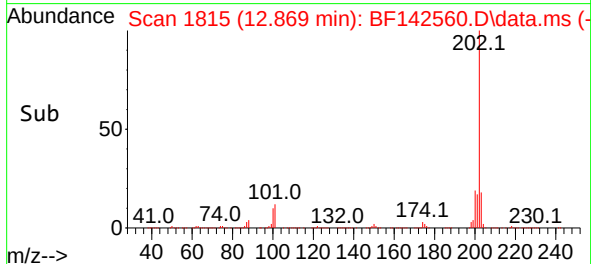
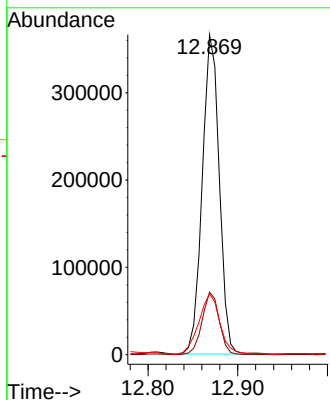
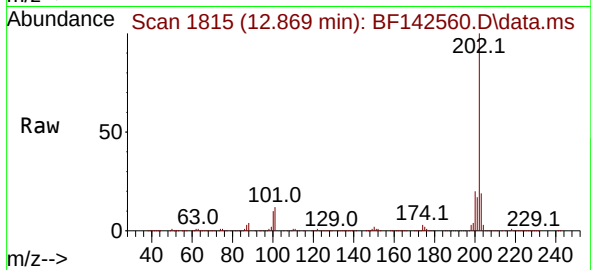




#78
Pyrene
Concen: 23.379 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

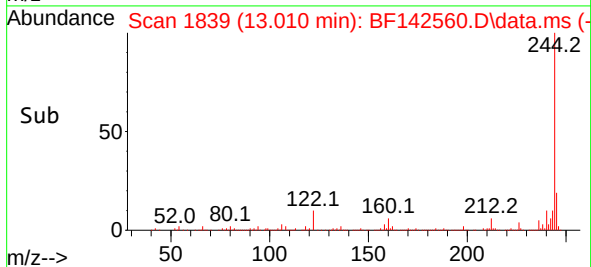
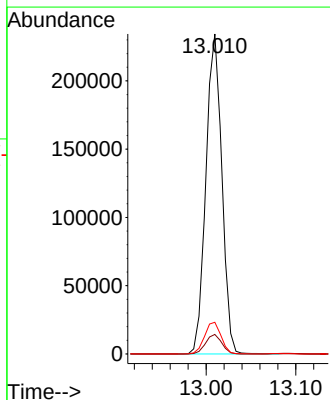
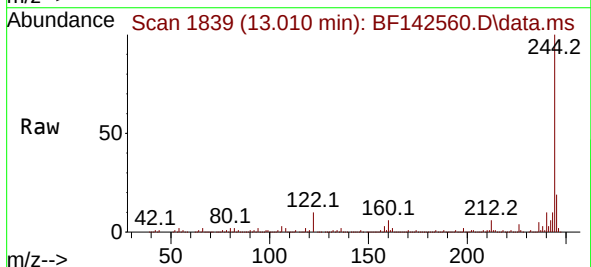
Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

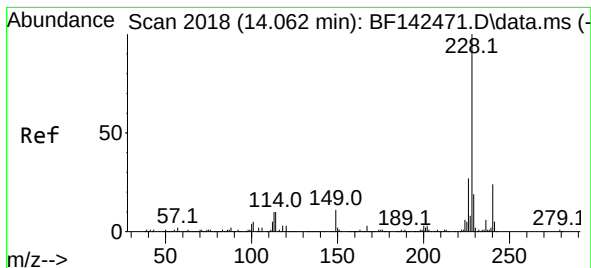
Tgt Ion:202 Resp: 481964
Ion Ratio Lower Upper
202 100
200 19.5 16.1 24.1
203 19.1 13.9 20.9



#79
Terphenyl-d14
Concen: 17.873 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:244 Resp: 289027
Ion Ratio Lower Upper
244 100
212 6.1 5.3 7.9
122 9.9 8.2 12.2





#81

Benzo(a)anthracene

Concen: 15.753 ng

RT: 14.057 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

Instrument :

BNA_F

ClientSampleId :

TP-02-MHFDL

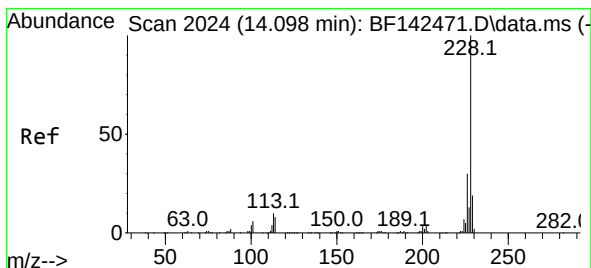
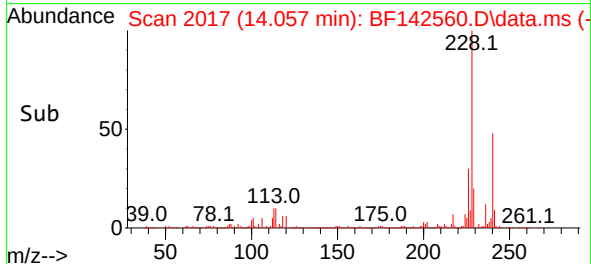
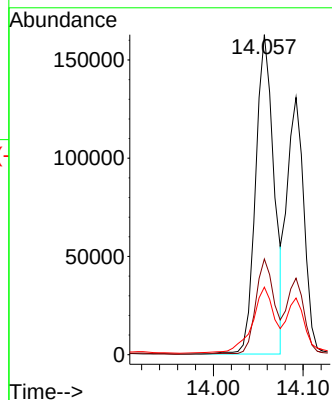
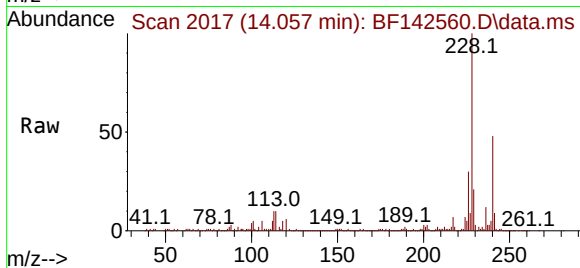
Tgt Ion:228 Resp: 232454

Ion Ratio Lower Upper

228 100

226 29.9 21.2 31.8

229 21.1 15.5 23.3



#83

Chrysene

Concen: 12.872 ng

RT: 14.092 min Scan# 2023

Delta R.T. -0.012 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

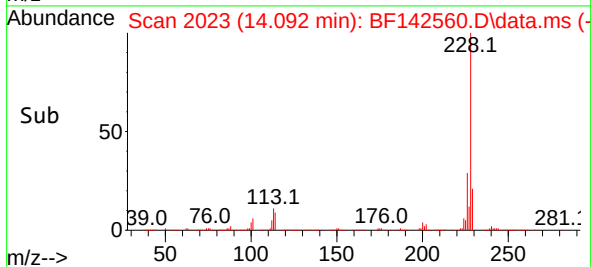
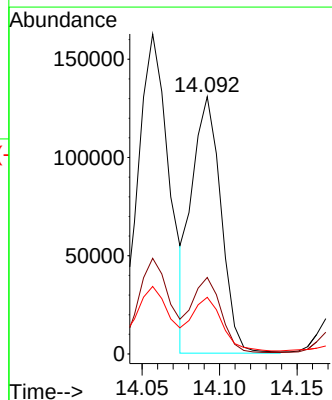
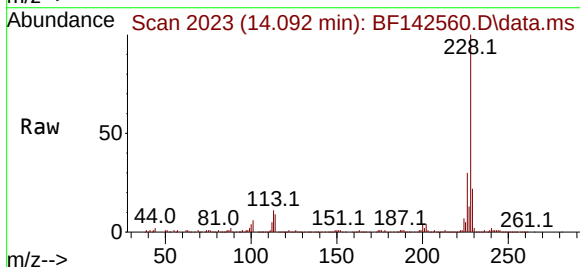
Tgt Ion:228 Resp: 170682

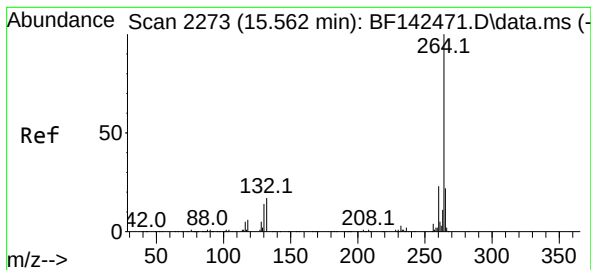
Ion Ratio Lower Upper

228 100

226 29.7 23.8 35.6

229 22.0 15.4 23.2



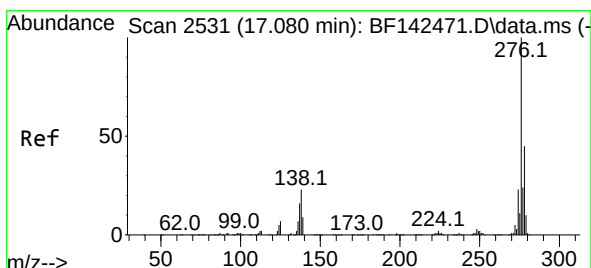
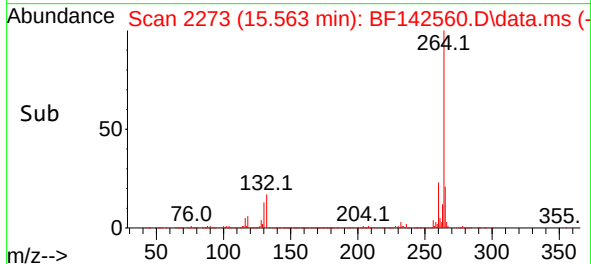
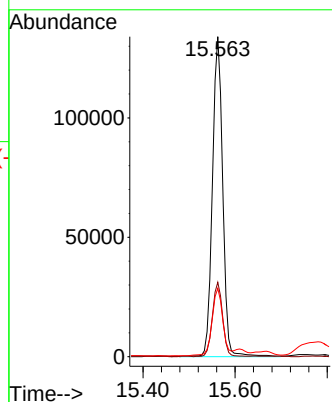
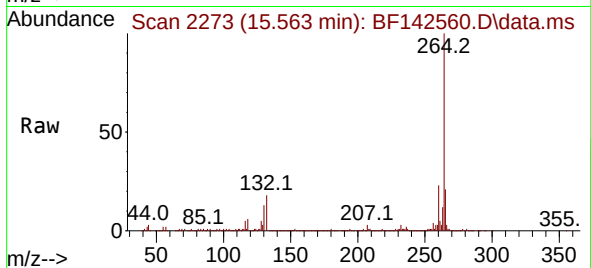


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Instrument :
BNA_F
ClientSampleId :
TP-02-MHFDL

Tgt Ion:264 Resp: 208742

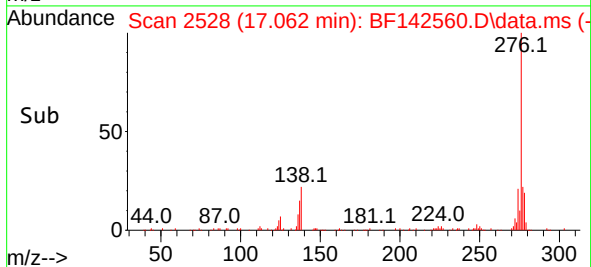
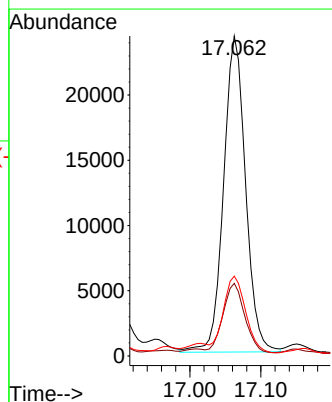
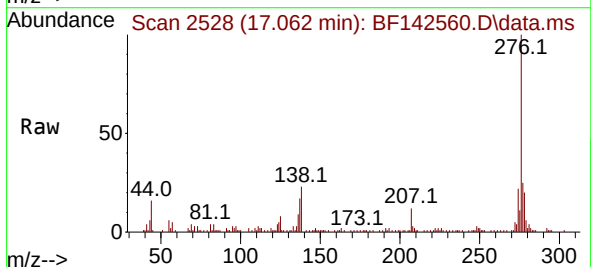
Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.3	17.7	26.5

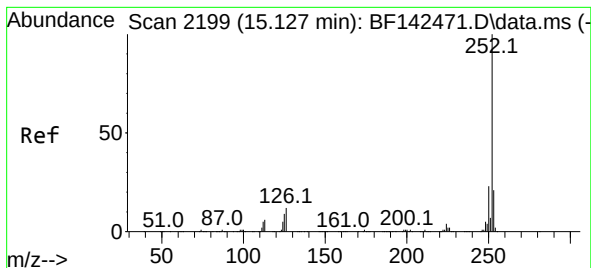


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.326 ng
RT: 17.062 min Scan# 2528
Delta R.T. -0.029 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:276 Resp: 52116

Ion	Ratio	Lower	Upper
276	100		
138	21.9	19.9	29.9
277	24.5	20.2	30.2





#88

Benzo(b)fluoranthene

Concen: 24.080 ng

RT: 15.121 min Scan# 2199

Delta R.T. -0.006 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

Instrument :

BNA_F

ClientSampleId :

TP-02-MHFDL

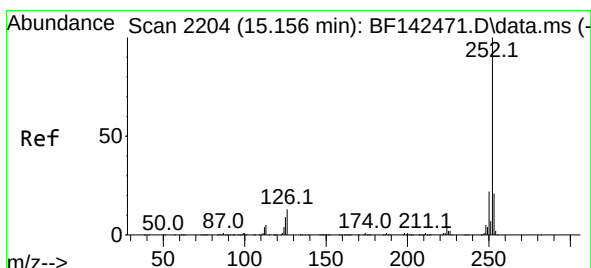
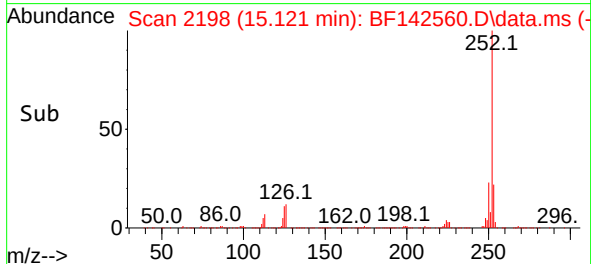
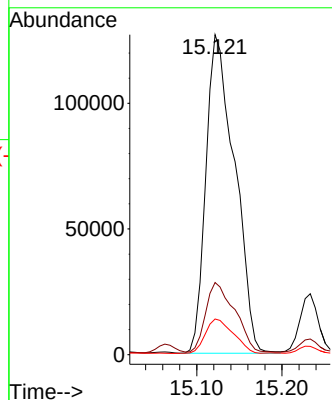
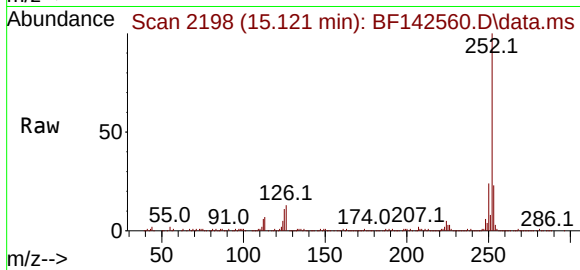
Tgt Ion:252 Resp: 297493

Ion Ratio Lower Upper

252 100

253 22.5 17.0 25.4

125 11.1 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 25.710 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.041 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

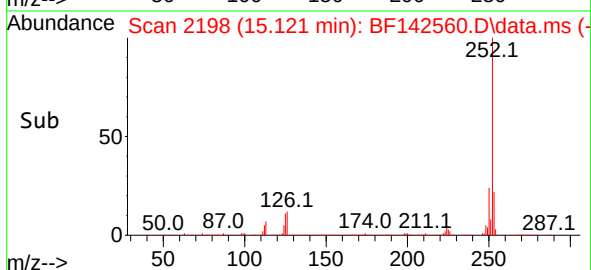
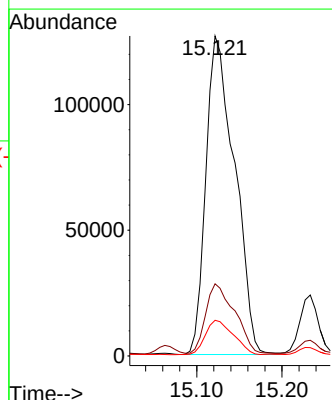
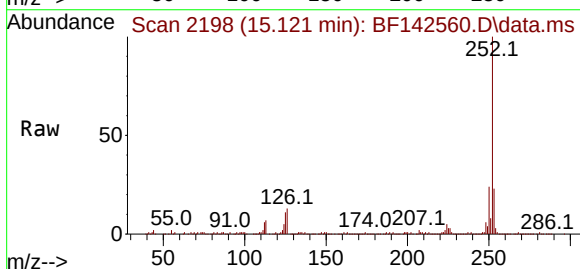
Tgt Ion:252 Resp: 297493

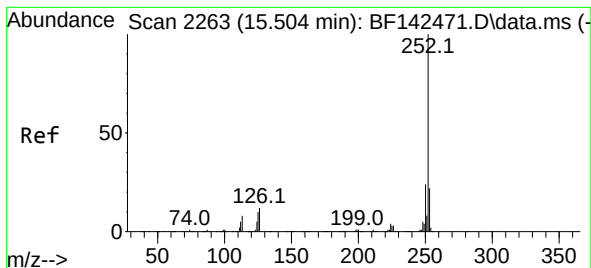
Ion Ratio Lower Upper

252 100

253 22.5 17.0 25.4

125 11.1 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 12.830 ng

RT: 15.498 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

Instrument :

BNA_F

ClientSampleId :

TP-02-MHFDL

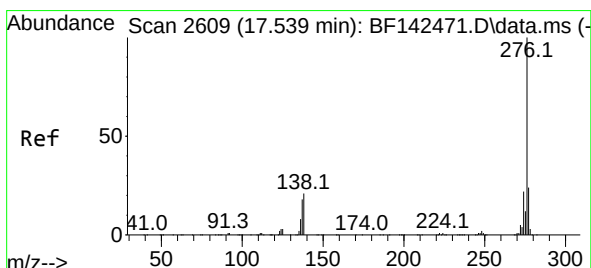
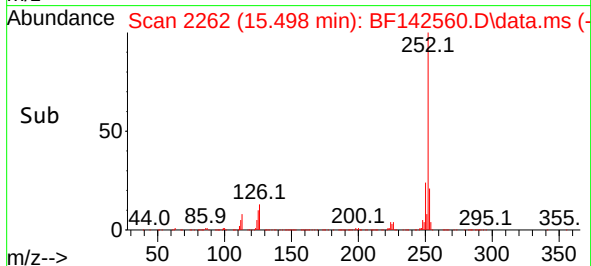
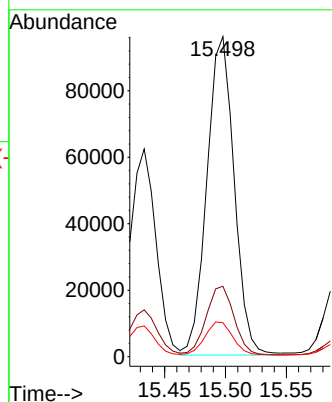
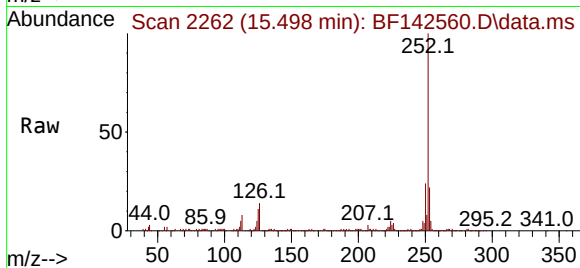
Tgt Ion:252 Resp: 149408

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.0

125 10.6 7.9 11.9



#92

Benzo(g,h,i)perylene

Concen: 3.606 ng

RT: 17.521 min Scan# 2606

Delta R.T. -0.035 min

Lab File: BF142560.D

Acq: 27 May 2025 14:26

Tgt Ion:276 Resp: 45848

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 23.4 16.8 25.2

