

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
 Data File : BF142646.D
 Acq On : 06 Jun 2025 14:58
 Operator : RC/JU
 Sample : Q2219-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11995

Quant Time: Jun 06 15:26:20 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)

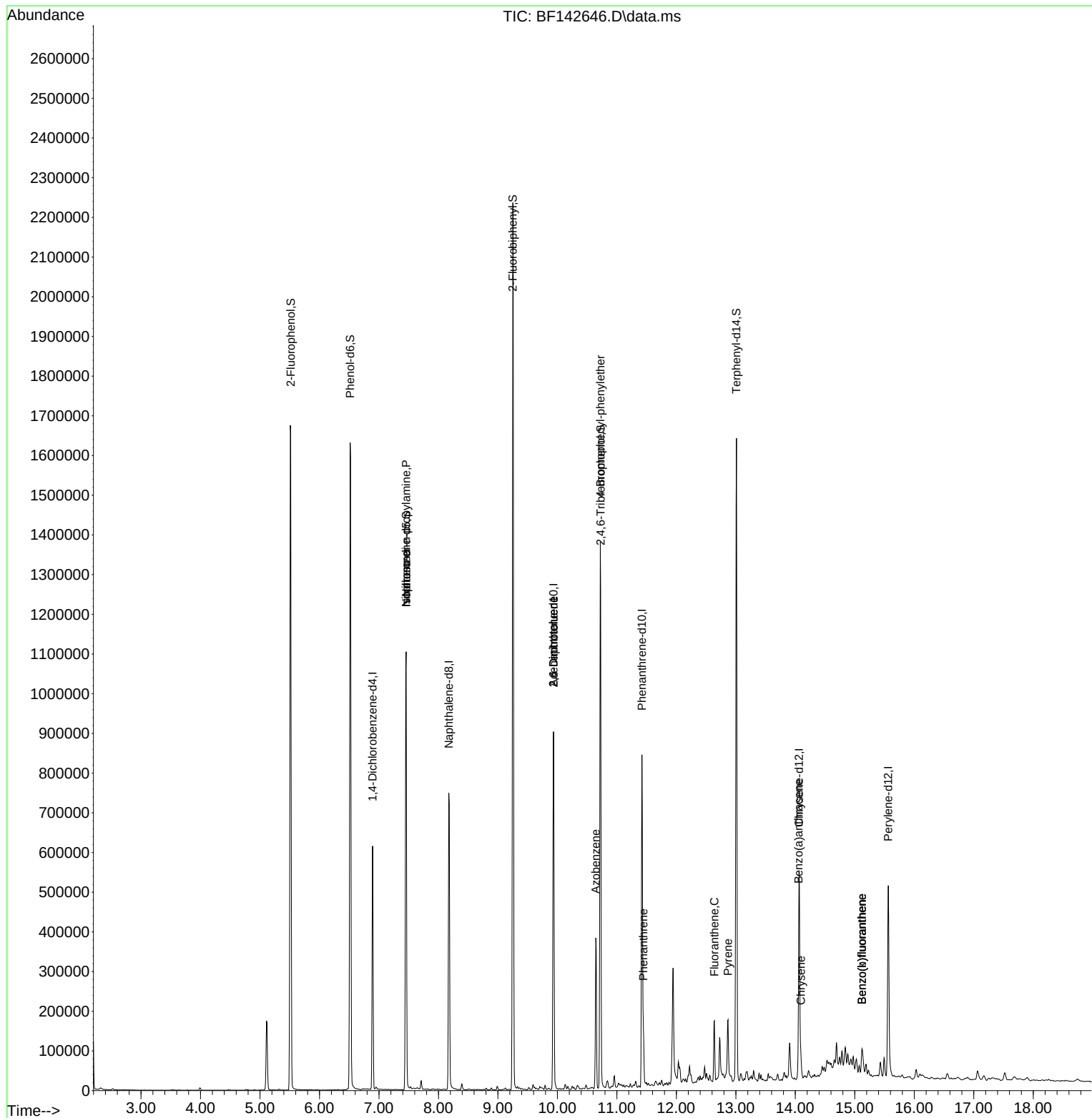
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	132036	20.000	ng	-0.01
21) Naphthalene-d8	8.175	136	509684	20.000	ng	-0.01
39) Acenaphthene-d10	9.933	164	268752	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	430972	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	247466	20.000	ng	-0.01
86) Perylene-d12	15.563	264	285837	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	680155	86.787	ng	0.00
7) Phenol-d6	6.516	99	826406	87.599	ng	-0.02
23) Nitrobenzene-d5	7.457	82	491647	52.599	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	248456	83.296	ng	-0.01
45) 2-Fluorobiphenyl	9.251	172	1034651	51.659	ng	-0.02
79) Terphenyl-d14	13.010	244	796242	43.970	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.457	70	65089	11.132	ng	# 76
25) Isophorone	7.457	82	475937	30.455	ng	# 63
51) 2,6-Dinitrotoluene	9.933	165	35055	9.159	ng	# 28
57) 2,4-Dinitrotoluene	9.933	165	35049	7.012	ng	# 28
63) Azobenzene	10.645	77	90160	5.796	ng	# 1
67) 4-Bromophenyl-phenylether	10.722	248	16071	3.154	ng	# 1
71) Phenanthrene	11.445	178	71582	3.108	ng	98
75) Fluoranthene	12.639	202	89224	4.146	ng	99
78) Pyrene	12.869	202	90490	3.920	ng	98
81) Benzo(a)anthracene	14.057	228	35988	2.178	ng	93
83) Chrysene	14.092	228	32775	2.207	ng	95
88) Benzo(b)fluoranthene	15.121	252	54000	3.192	ng	# 94
89) Benzo(k)fluoranthene	15.121	252	54000	3.408	ng	# 94

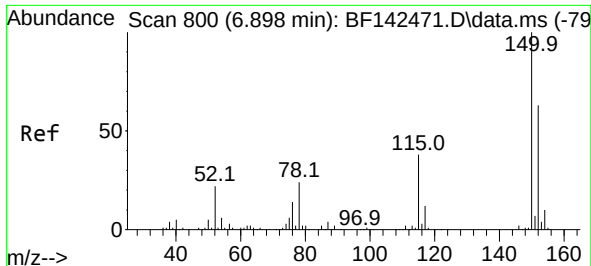
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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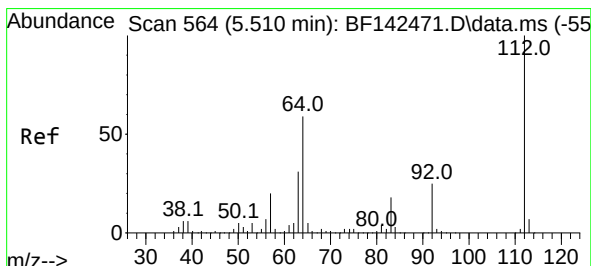
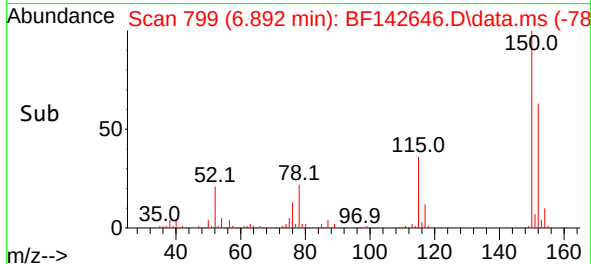
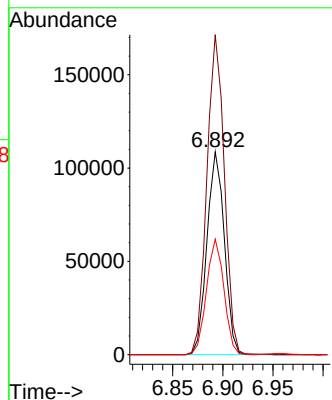
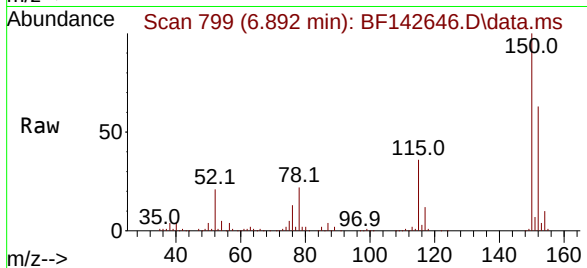




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.892 min Scan# 79
 Delta R.T. -0.012 min
 Lab File: BF142646.D
 Acq: 06 Jun 2025 14:58

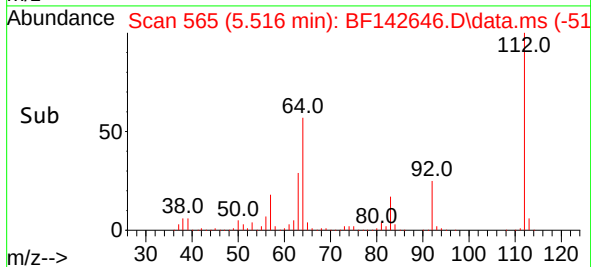
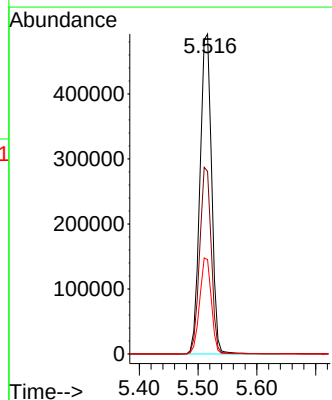
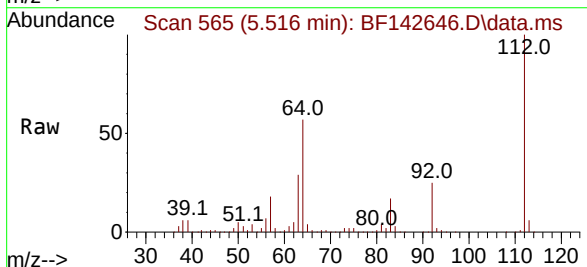
Instrument :
 BNA_F
 ClientSampleId :
 72-11995

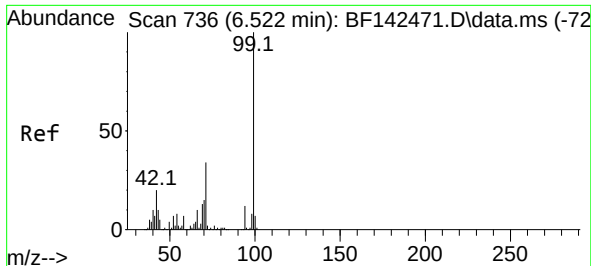
Tgt Ion:152 Resp: 132036
 Ion Ratio Lower Upper
 152 100
 150 157.7 128.2 192.4
 115 56.9 48.3 72.5



#5
 2-Fluorophenol
 Concen: 86.787 ng
 RT: 5.516 min Scan# 565
 Delta R.T. 0.000 min
 Lab File: BF142646.D
 Acq: 06 Jun 2025 14:58

Tgt Ion:112 Resp: 680155
 Ion Ratio Lower Upper
 112 100
 64 57.0 47.5 71.3
 63 29.5 24.9 37.3





#7
Phenol-d6
Concen: 87.599 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

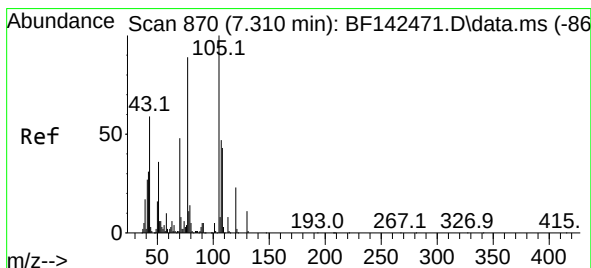
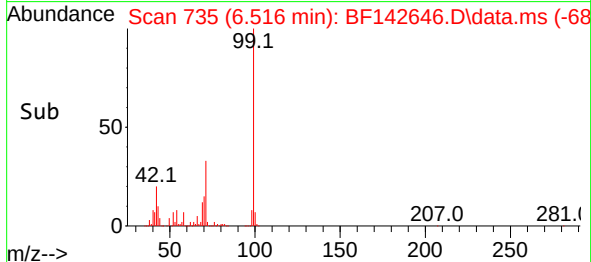
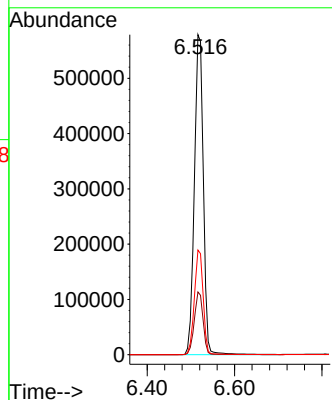
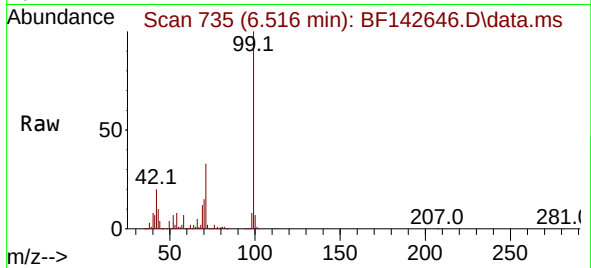
Instrument :

BNA_F

ClientSampleId :

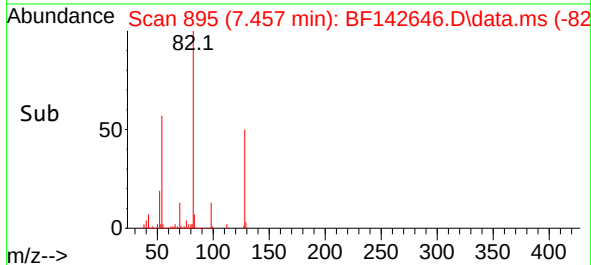
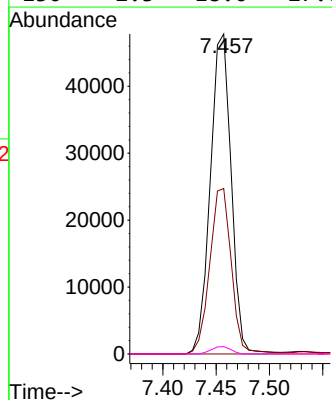
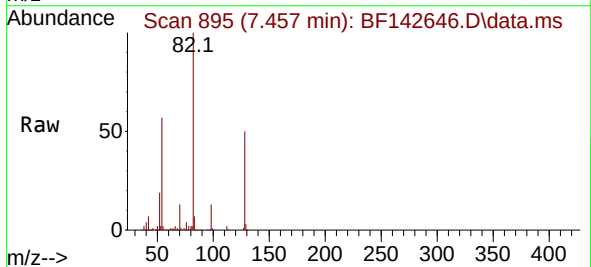
72-11995

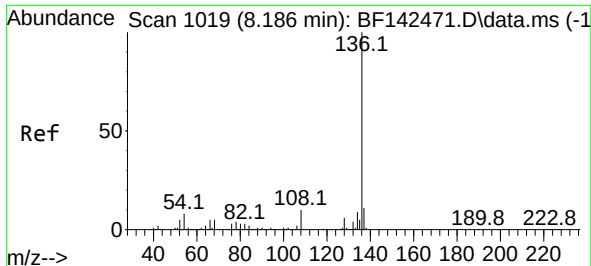
Tgt Ion: 99 Resp: 826406
Ion Ratio Lower Upper
99 100
42 19.6 16.2 24.2
71 32.7 27.3 40.9



#19
n-Nitroso-di-n-propylamine
Concen: 11.132 ng
RT: 7.457 min Scan# 895
Delta R.T. 0.130 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

Tgt Ion: 70 Resp: 65089
Ion Ratio Lower Upper
70 100
42 51.7 52.4 78.6#
101 0.0 7.8 11.8#
130 2.3 18.0 27.0#



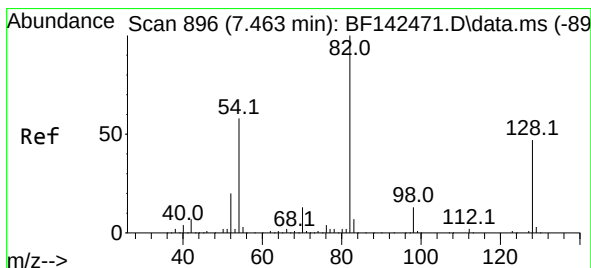
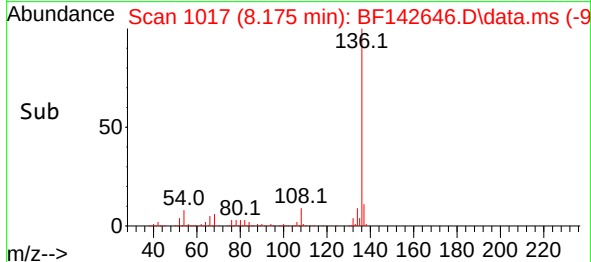
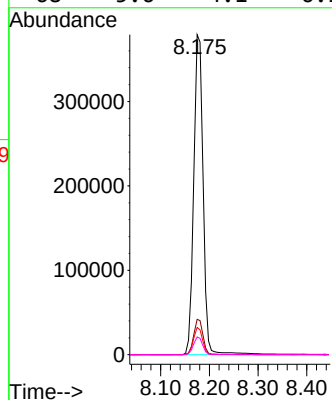
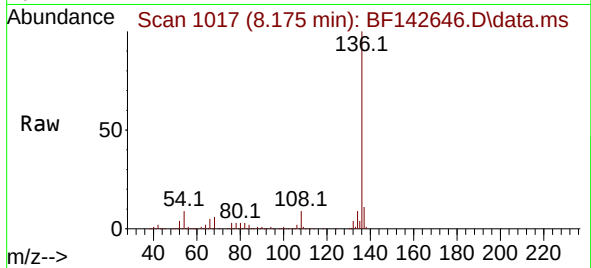


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1019
Delta R.T. -0.012 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

Instrument :
BNA_F
ClientSampleId :
72-11995

Tgt Ion:136 Resp: 509684

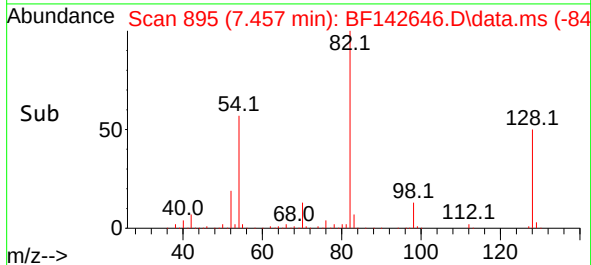
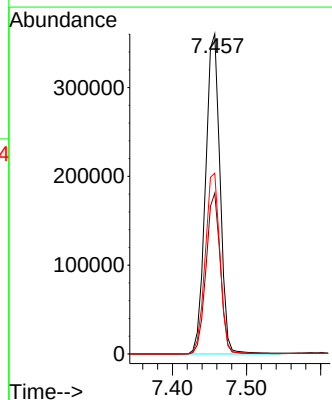
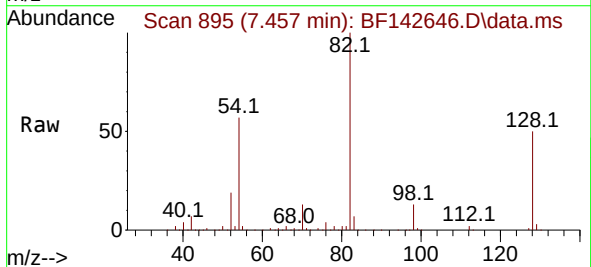
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.5	6.6	10.0
68	5.6	4.1	6.1

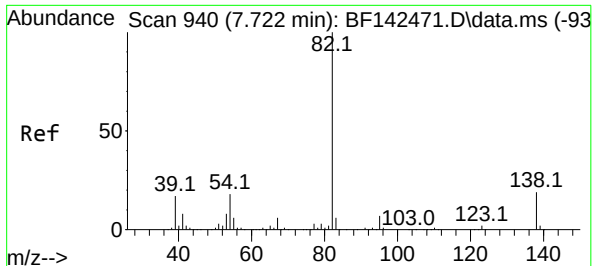


#23
Nitrobenzene-d5
Concen: 52.599 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.017 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

Tgt Ion: 82 Resp: 491647

Ion	Ratio	Lower	Upper
82	100		
128	50.2	37.4	56.2
54	56.5	46.6	70.0

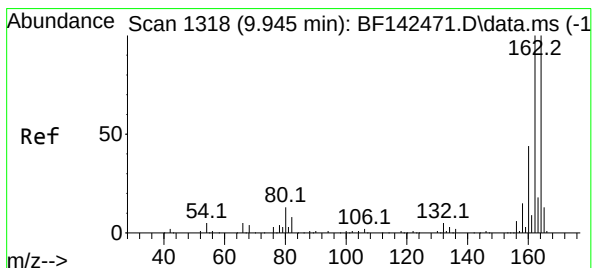
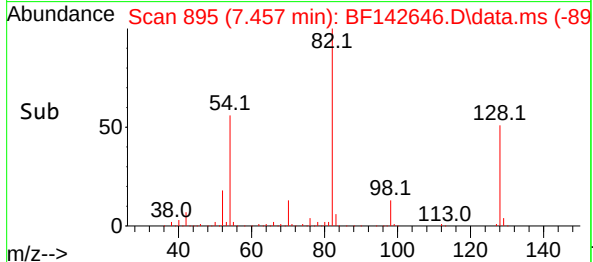
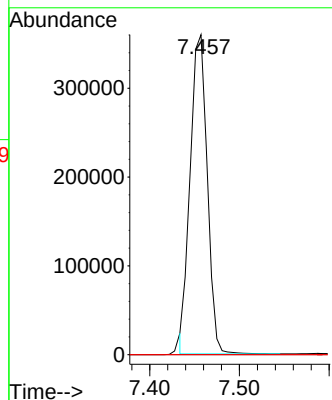
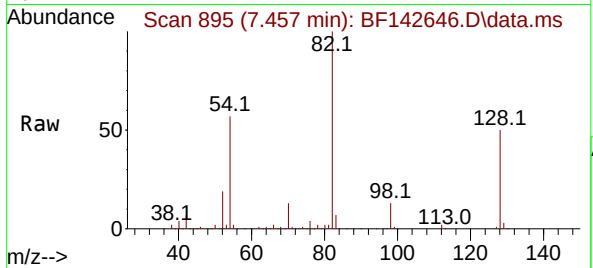




#25
Isophorone
Concen: 30.455 ng
RT: 7.457 min Scan# 89
Delta R.T. -0.276 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

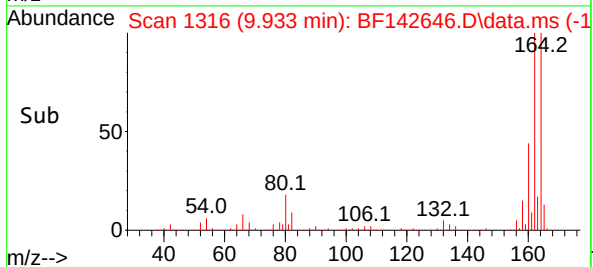
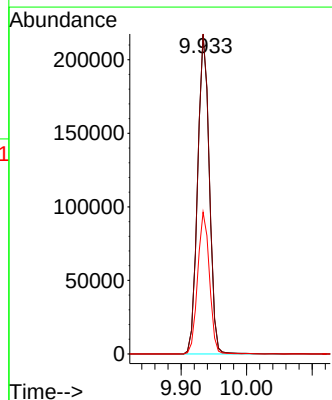
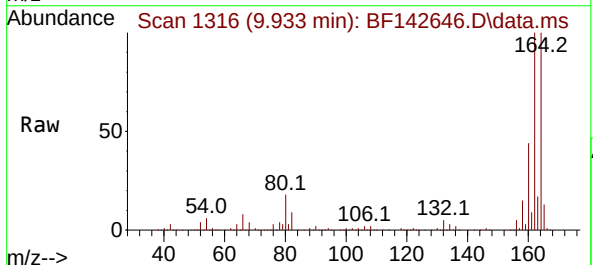
Instrument :
BNA_F
ClientSampleId :
72-11995

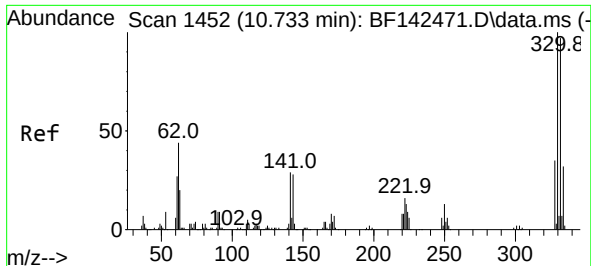
Tgt Ion: 82 Resp: 475937
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 15.5 23.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

Tgt Ion:164 Resp: 268752
Ion Ratio Lower Upper
164 100
162 100.4 80.2 120.4
160 44.5 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 83.296 ng

RT: 10.728 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

Instrument :

BNA_F

ClientSampleId :

72-11995

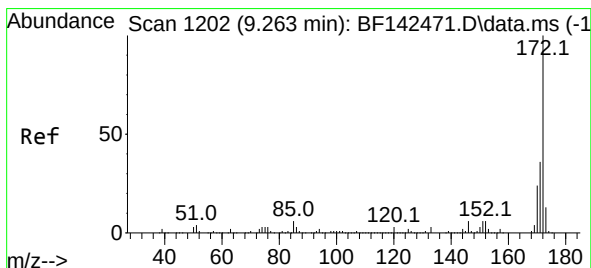
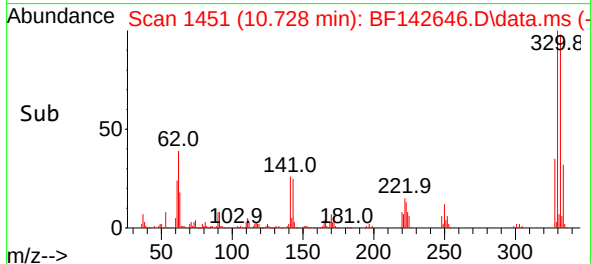
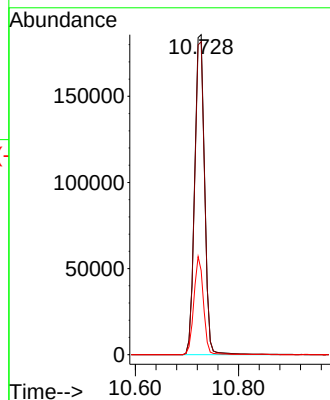
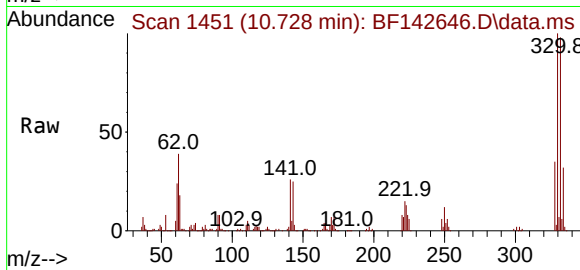
Tgt Ion:330 Resp: 248456

Ion Ratio Lower Upper

330 100

332 97.7 77.6 116.4

141 29.4 24.6 36.8



#45

2-Fluorobiphenyl

Concen: 51.659 ng

RT: 9.251 min Scan# 1200

Delta R.T. -0.017 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

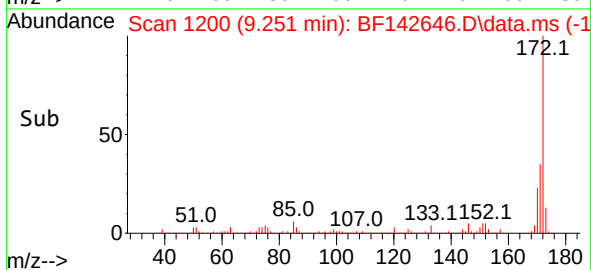
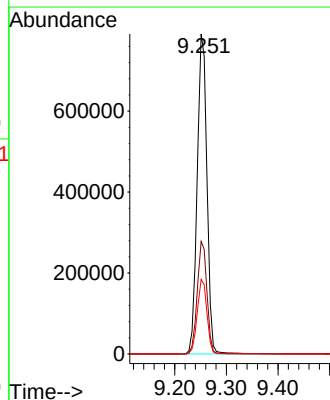
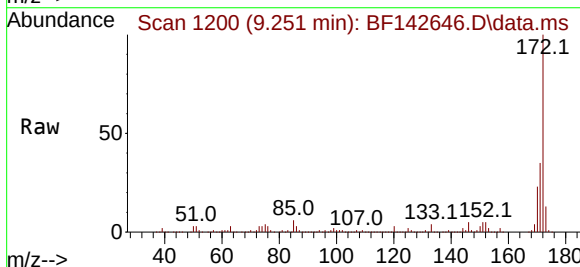
Tgt Ion:172 Resp: 1034651

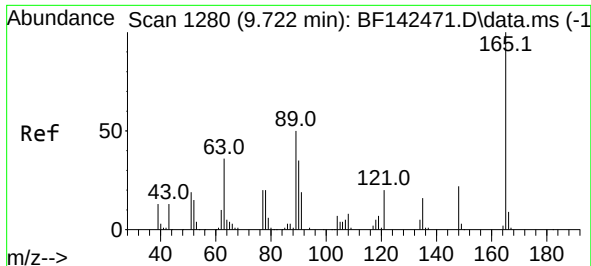
Ion Ratio Lower Upper

172 100

171 35.2 28.6 42.8

170 23.3 18.9 28.3





#51

2,6-Dinitrotoluene

Concen: 9.159 ng

RT: 9.933 min Scan# 11

Delta R.T. 0.206 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

Instrument :

BNA_F

ClientSampleId :

72-11995

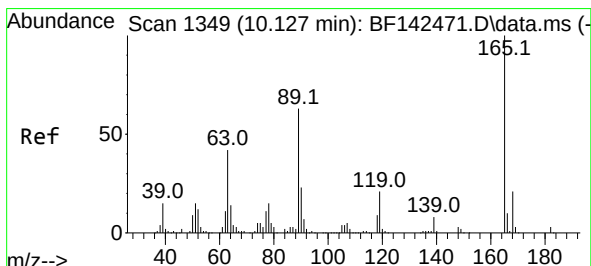
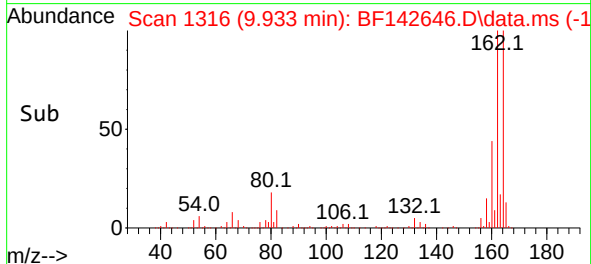
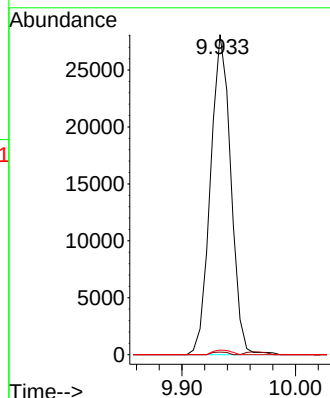
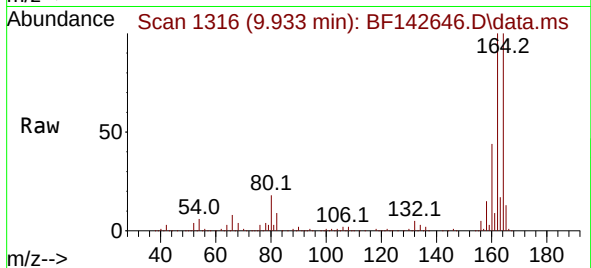
Tgt Ion:165 Resp: 35055

Ion Ratio Lower Upper

165 100

63 0.8 42.9 64.3#

89 1.5 40.2 60.4#



#57

2,4-Dinitrotoluene

Concen: 7.012 ng

RT: 9.933 min Scan# 1316

Delta R.T. -0.200 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

Tgt Ion:165 Resp: 35049

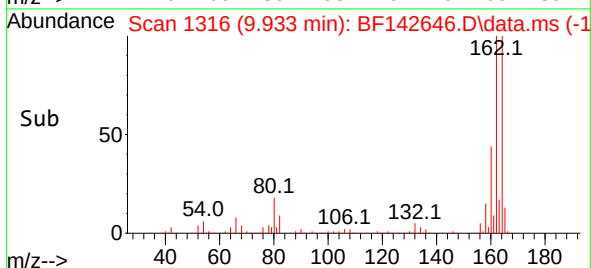
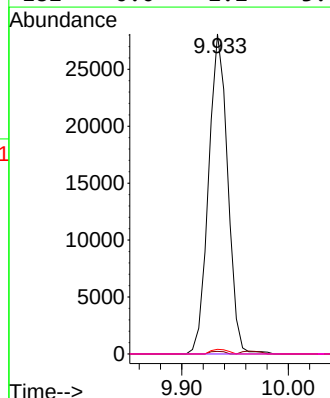
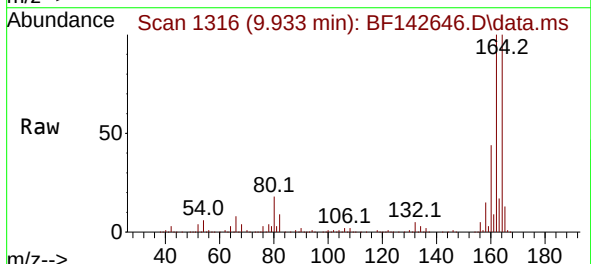
Ion Ratio Lower Upper

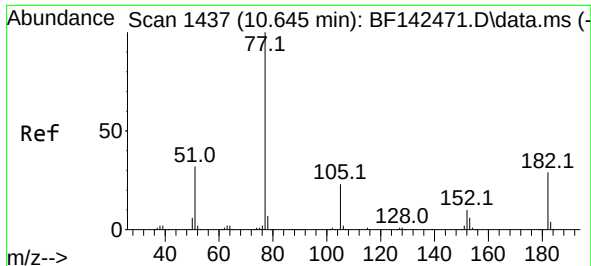
165 100

63 0.8 33.6 50.4#

89 1.5 50.2 75.4#

182 0.0 2.2 3.4#

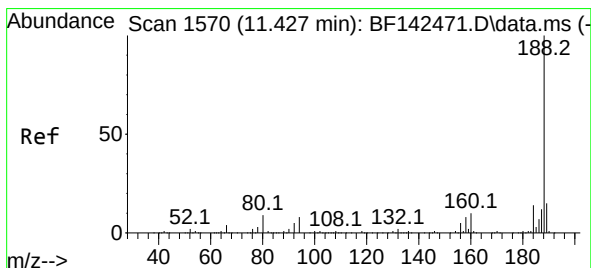
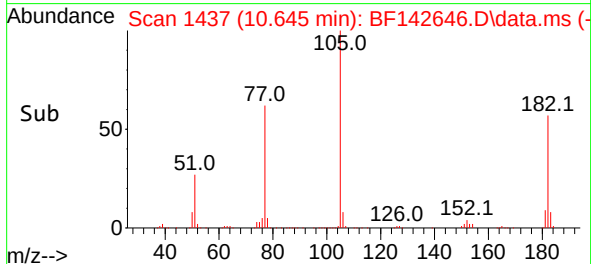
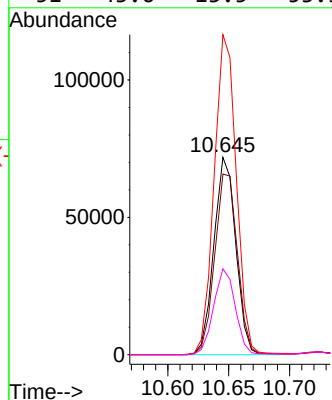
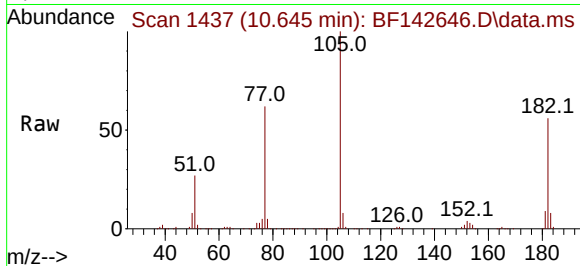




#63
Azobenzene
Concen: 5.796 ng
RT: 10.645 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

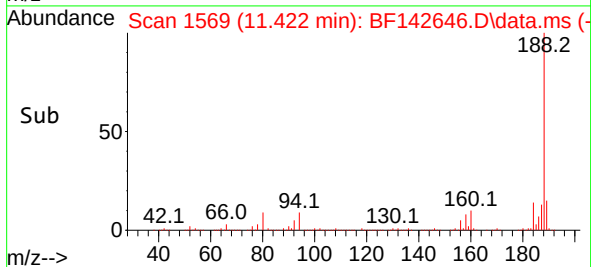
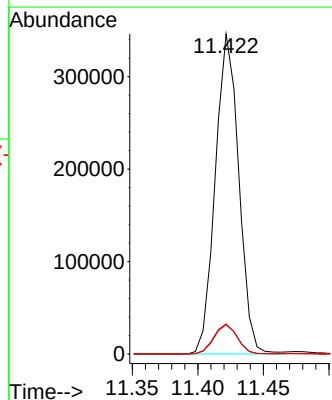
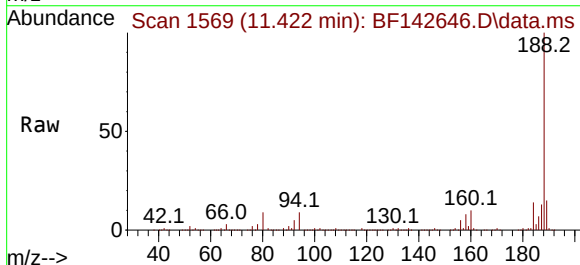
Instrument :
BNA_F
ClientSampleId :
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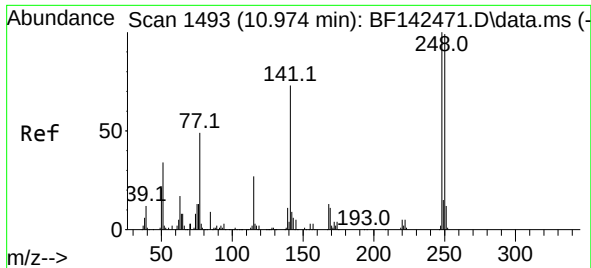
Tgt Ion: 77	Resp: 90160
Ion Ratio	Lower Upper
77 100	
182 91.5	9.0 49.0#
105 162.1	2.4 42.4#
51 43.6	13.5 53.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

Tgt Ion: 188	Resp: 430972
Ion Ratio	Lower Upper
188 100	
94 9.2	6.6 10.0
80 9.4	7.4 11.0

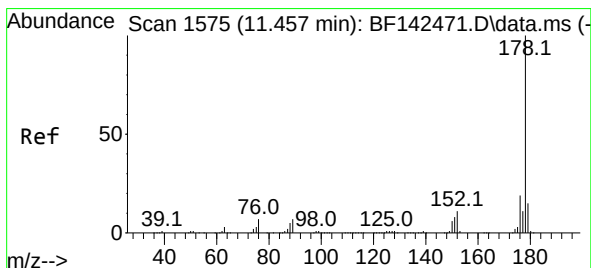
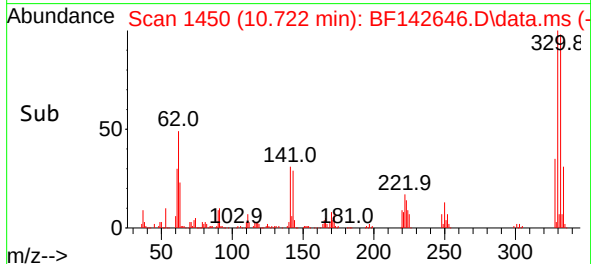
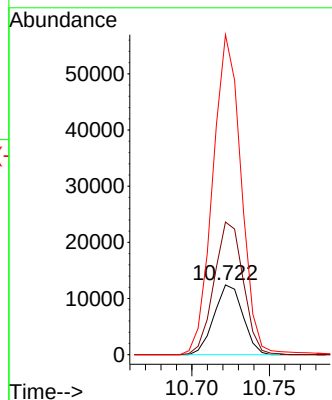
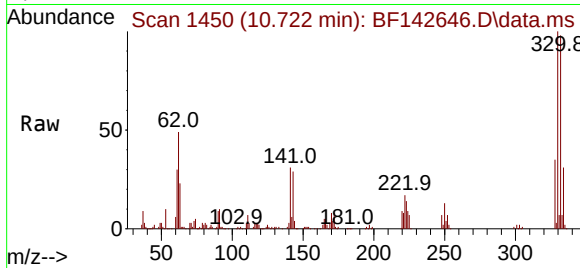




#67
4-Bromophenyl-phenylether
Concen: 3.154 ng
RT: 10.722 min Scan# 1493
Delta R.T. -0.253 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

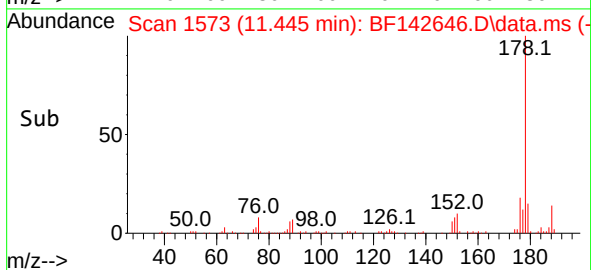
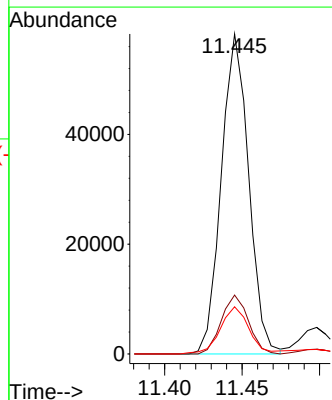
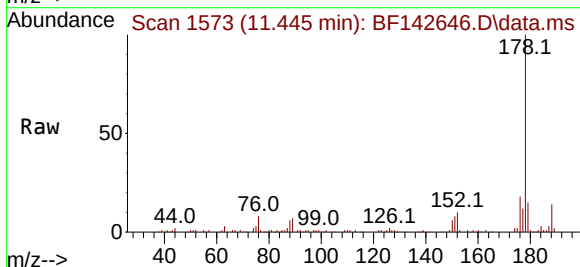
Instrument :
BNA_F
ClientSampleId :
72-11995

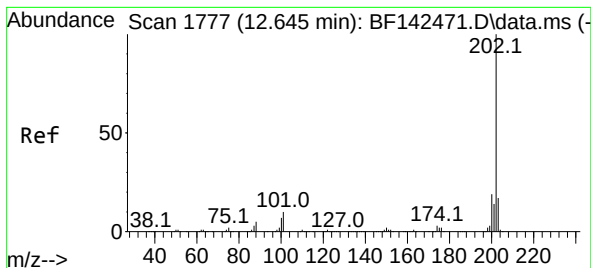
Tgt Ion:248 Resp: 16071
Ion Ratio Lower Upper
248 100
250 190.4 79.0 118.4#
141 459.1 58.4 87.6#



#71
Phenanthrene
Concen: 3.108 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

Tgt Ion:178 Resp: 71582
Ion Ratio Lower Upper
178 100
176 18.4 15.4 23.0
179 14.7 12.3 18.5





#75

Fluoranthene

Concen: 4.146 ng

RT: 12.639 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

Instrument :

BNA_F

ClientSampleId :

72-11995

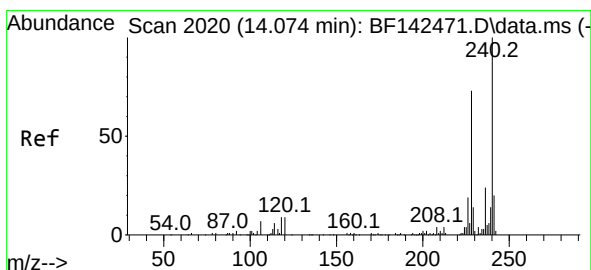
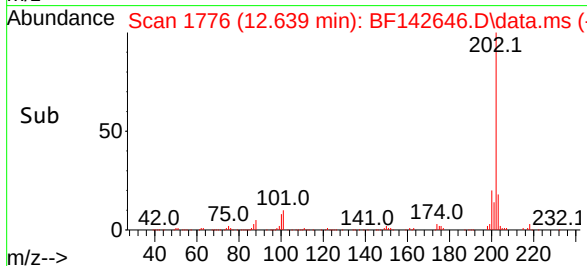
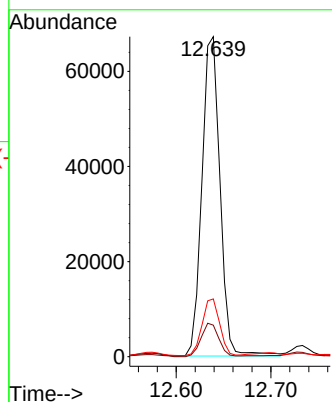
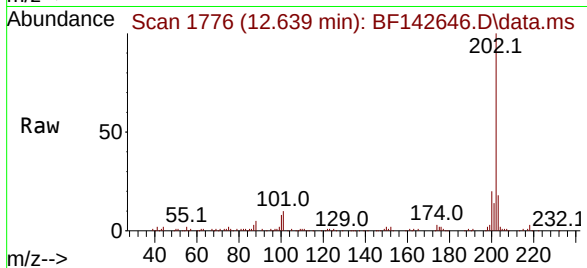
Tgt Ion:202 Resp: 89224

Ion Ratio Lower Upper

202 100

101 9.9 0.0 29.6

203 18.0 0.0 37.2



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.012 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

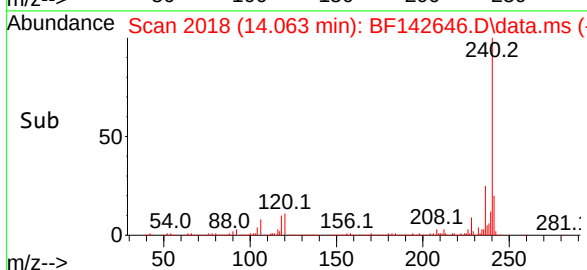
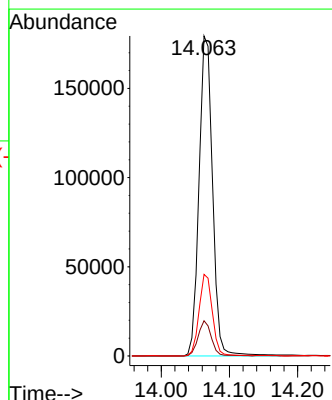
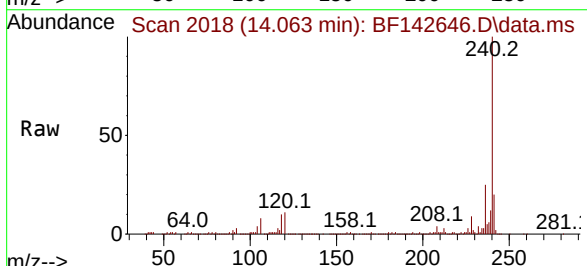
Tgt Ion:240 Resp: 247466

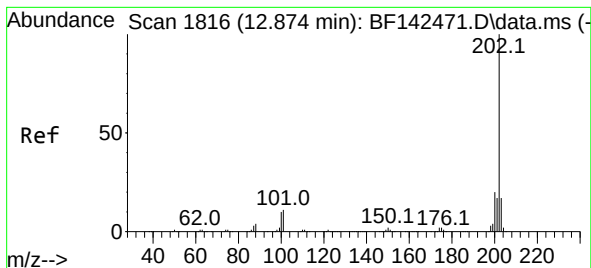
Ion Ratio Lower Upper

240 100

120 11.0 7.5 11.3

236 25.5 19.6 29.4





#78

Pyrene

Concen: 3.920 ng

RT: 12.869 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

Instrument :

BNA_F

ClientSampleId :

72-11995

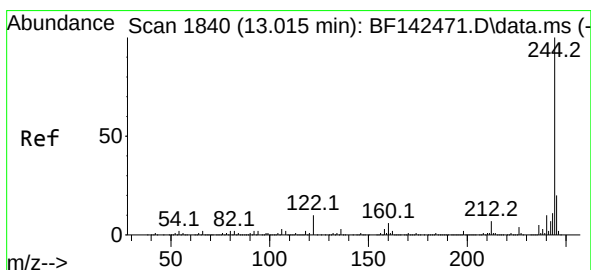
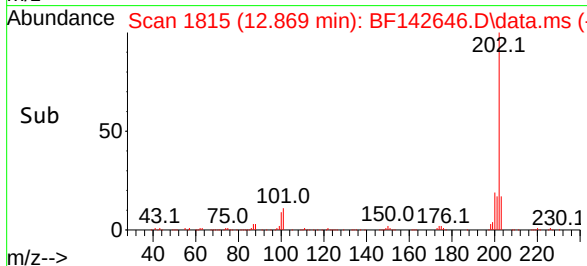
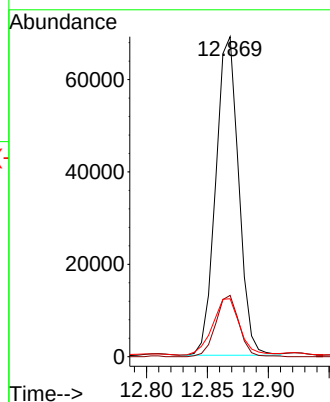
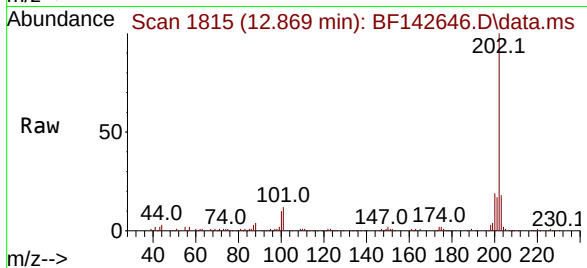
Tgt Ion:202 Resp: 90490

Ion Ratio Lower Upper

202 100

200 19.1 16.1 24.1

203 18.1 13.9 20.9



#79

Terphenyl-d14

Concen: 43.970 ng

RT: 13.010 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

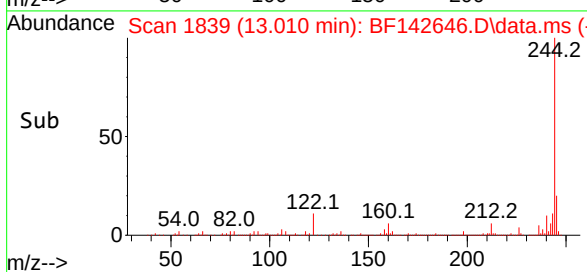
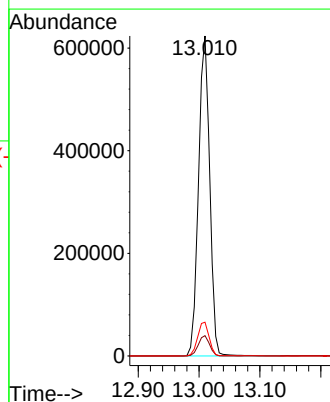
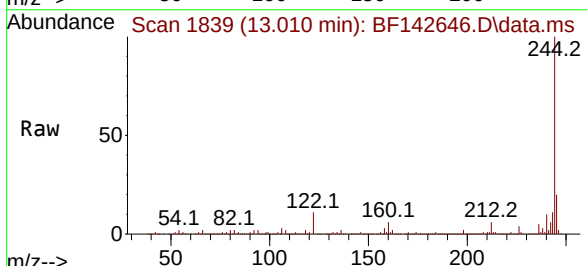
Tgt Ion:244 Resp: 796242

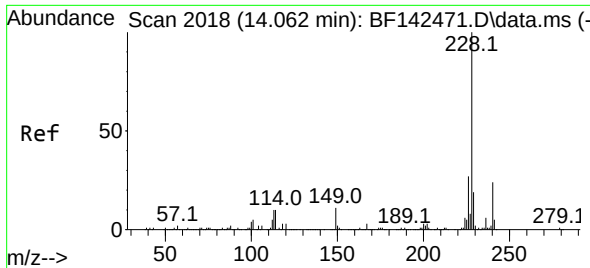
Ion Ratio Lower Upper

244 100

212 6.4 5.3 7.9

122 10.6 8.2 12.2

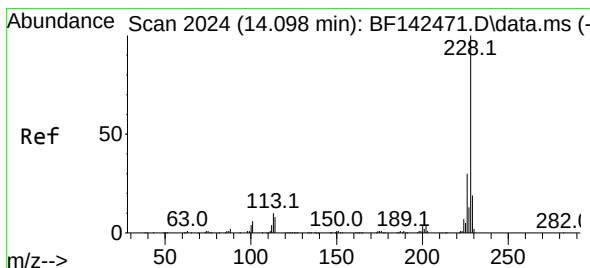
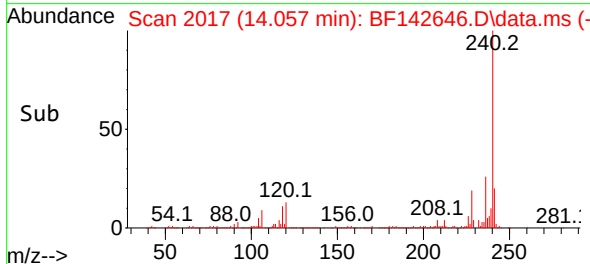
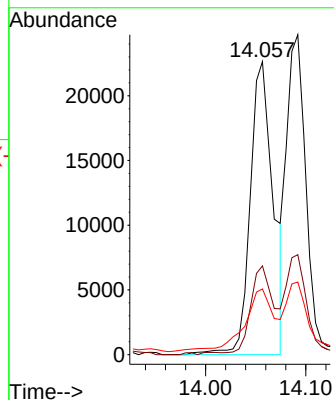
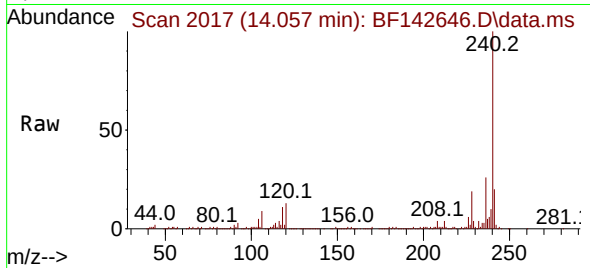




#81
Benzo(a)anthracene
Concen: 2.178 ng
RT: 14.057 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

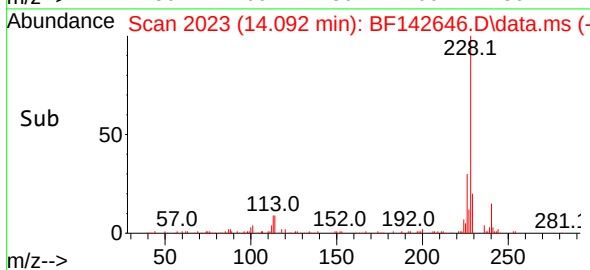
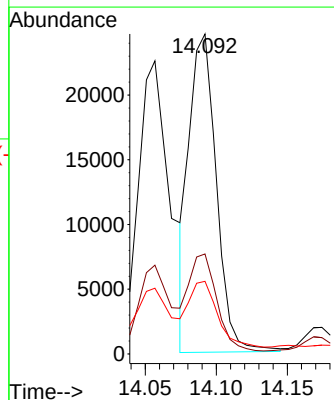
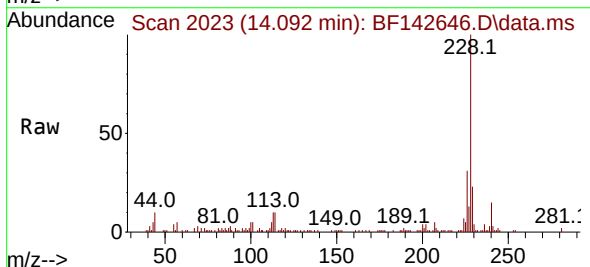
Instrument :
BNA_F
ClientSampleId :
72-11995

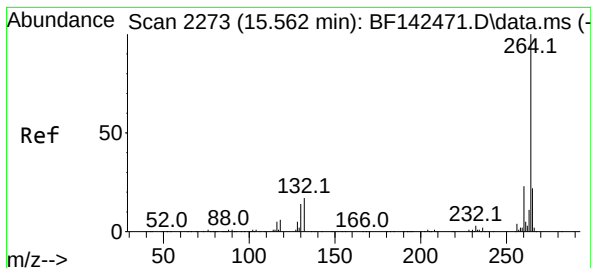
Tgt Ion:228 Resp: 35988
Ion Ratio Lower Upper
228 100
226 30.3 21.2 31.8
229 22.4 15.5 23.3



#83
Chrysene
Concen: 2.207 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF142646.D
Acq: 06 Jun 2025 14:58

Tgt Ion:228 Resp: 32775
Ion Ratio Lower Upper
228 100
226 31.2 23.8 35.6
229 22.7 15.4 23.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.563 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

Instrument :

BNA_F

ClientSampleId :

72-11995

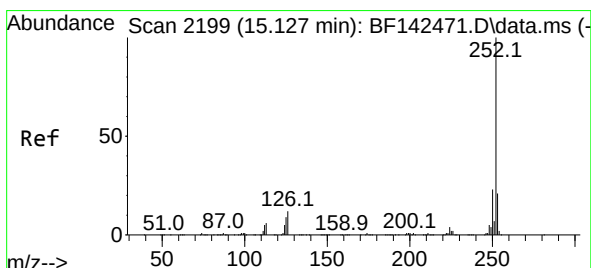
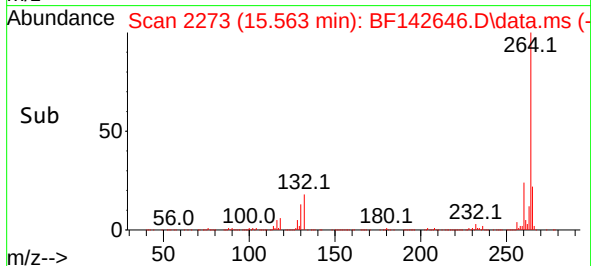
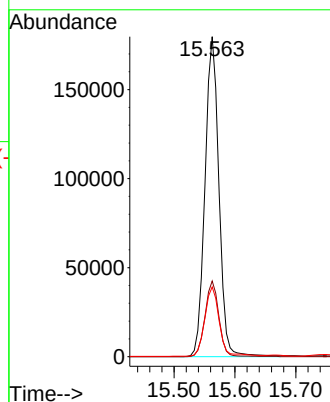
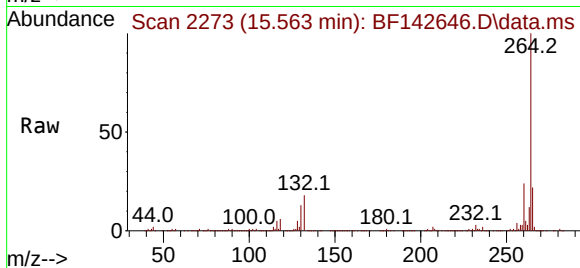
Tgt Ion:264 Resp: 285837

Ion Ratio Lower Upper

264 100

260 23.7 18.6 28.0

265 21.8 17.7 26.5



#88

Benzo(b)fluoranthene

Concen: 3.192 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF142646.D

Acq: 06 Jun 2025 14:58

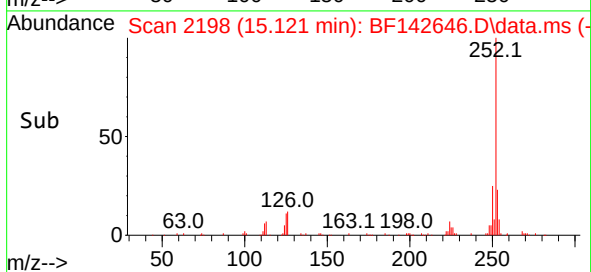
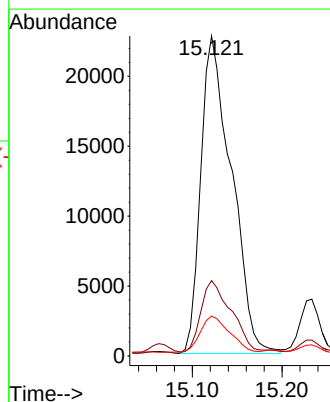
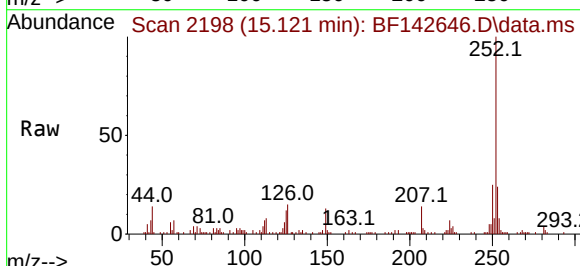
Tgt Ion:252 Resp: 54000

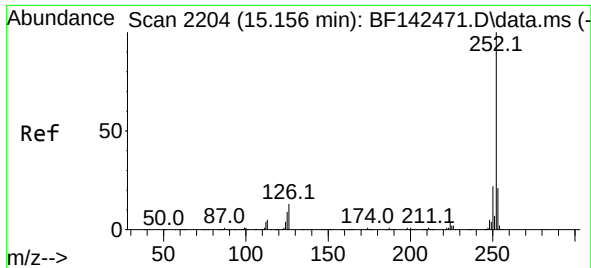
Ion Ratio Lower Upper

252 100

253 23.5 17.0 25.4

125 12.5 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 3.408 ng

RT: 15.121 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF142646.D

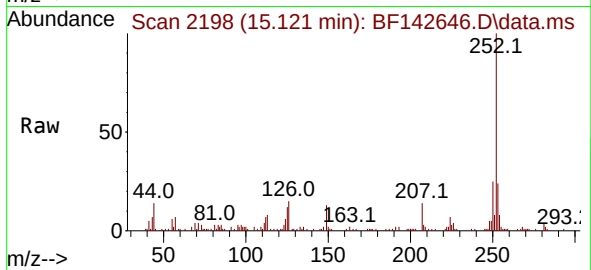
Acq: 06 Jun 2025 14:58

Instrument :

BNA_F

ClientSampleId :

72-11995



Tgt Ion:252 Resp: 54000

Ion Ratio Lower Upper

252 100

253 23.5 17.0 25.4

125 12.5 7.3 10.9#

