

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102825\
 Data File : BF144105.D
 Acq On : 28 Oct 2025 17:14
 Operator : RC/JU
 Sample : Q3419-04
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PR132-S16-119133-20251021

Quant Time: Oct 28 17:34:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 17:30:25 2025
 Response via : Initial Calibration

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

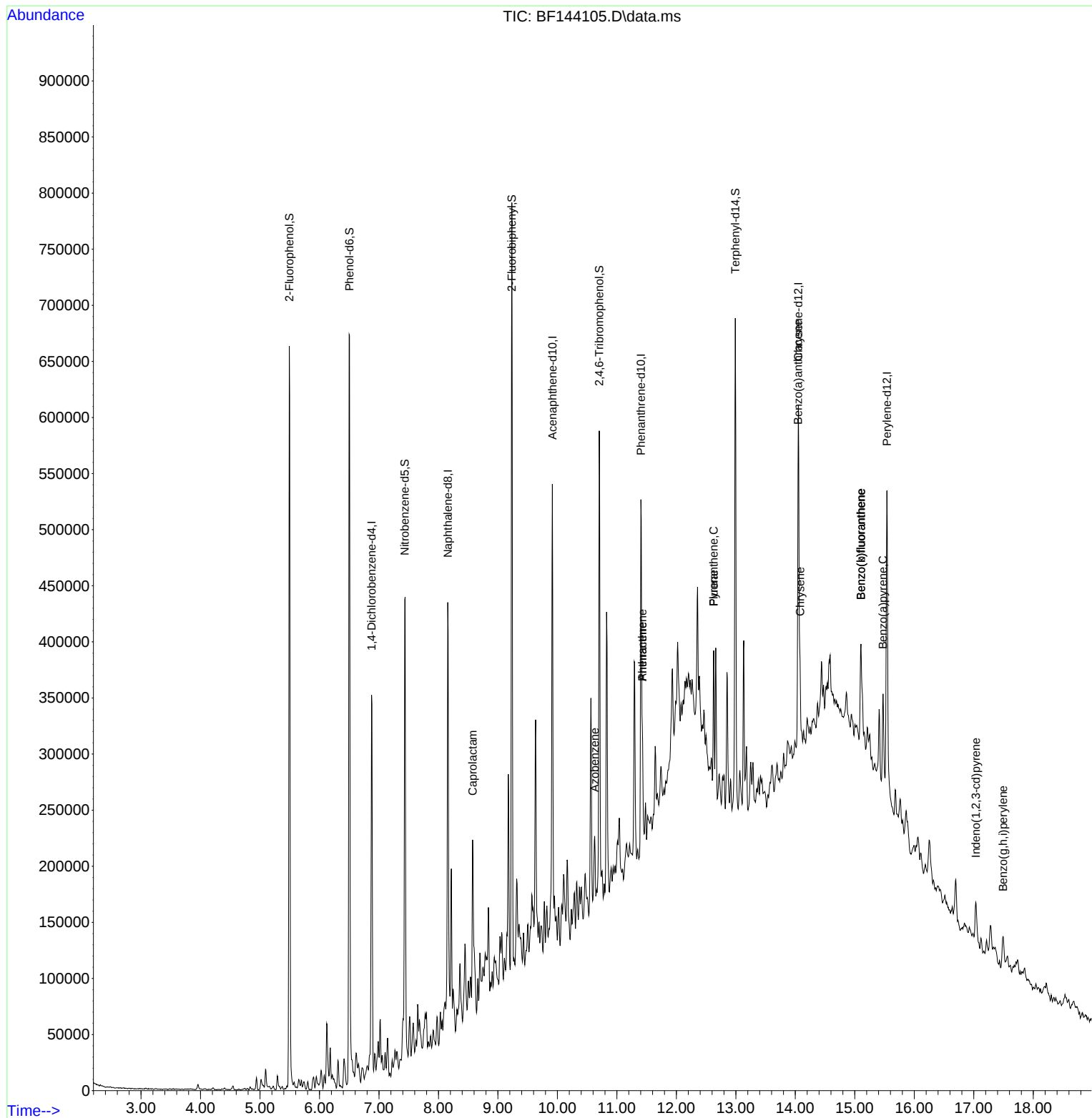
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	62876	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	232905	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	124644	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	167817	20.000	ng	0.00
76) Chrysene-d12	14.051	240	129765	20.000	ng	0.00
86) Perylene-d12	15.539	264	179006	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	252283	63.480	ng	0.00
7) Phenol-d6	6.504	99	287720	65.554	ng	0.00
23) Nitrobenzene-d5	7.434	82	175951	41.390	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	86260	54.329	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	312425	35.272	ng	0.00
79) Terphenyl-d14	12.992	244	227817	30.692	ng	0.00
Target Compounds						
						Qvalue
35) Caprolactam	8.575	113	5611	6.052	ng	# 1
63) Azobenzene	10.627	77	14638	2.013	ng	# 1
71) Phenanthrene	11.427	178	54546	6.543	ng	98
72) Anthracene	11.427	178	54546	6.334	ng	96
75) Fluoranthene	12.627	202	71005	7.709	ng	97
78) Pyrene	12.627	202	70735	7.582	ng	95
81) Benzo(a)anthracene	14.045	228	55346	6.311	ng	# 80
83) Chrysene	14.080	228	44968	5.464	ng	# 88
87) Indeno(1,2,3-cd)pyrene	17.033	276	28543	2.322	ng	95
88) Benzo(b)fluoranthene	15.104	252	73386	7.252	ng	# 88
89) Benzo(k)fluoranthene	15.104	252	73386	7.860	ng	# 88
90) Benzo(a)pyrene	15.474	252	54520	6.005	ng	# 92
92) Benzo(g,h,i)perylene	17.492	276	30614	3.130	ng	94

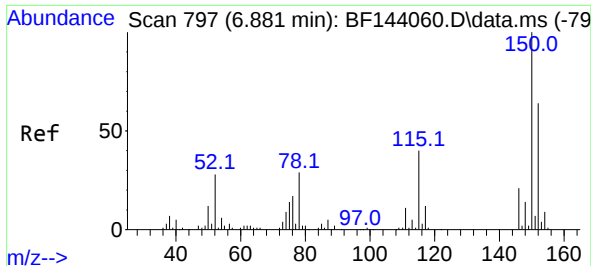
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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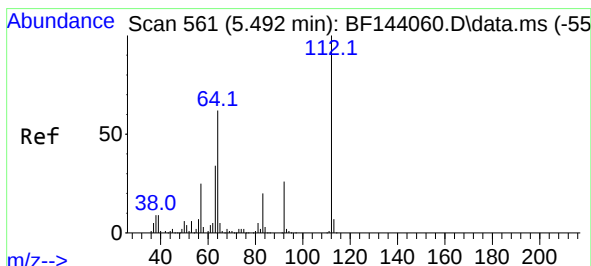
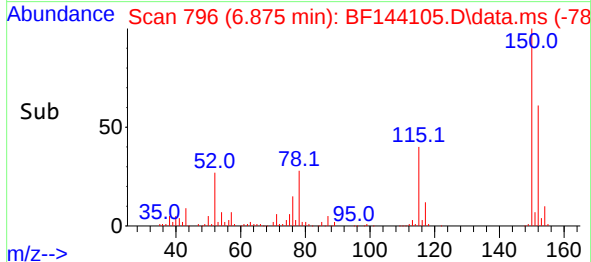
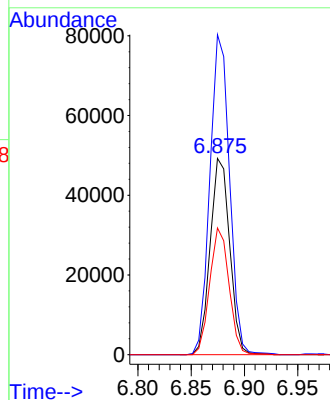
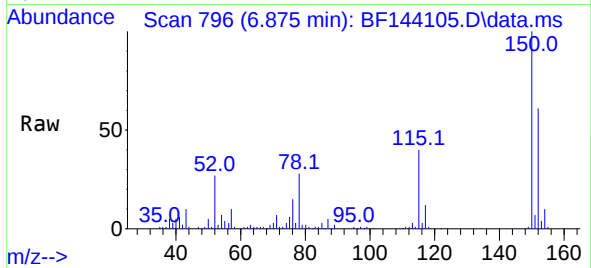




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

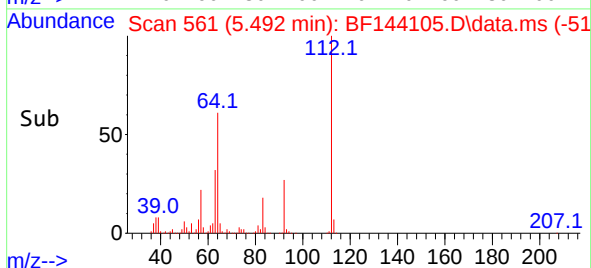
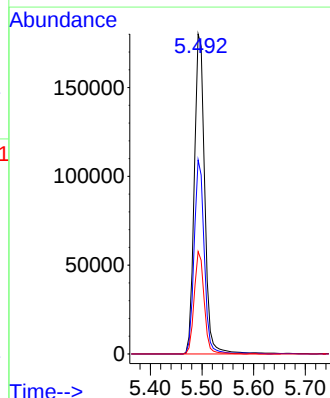
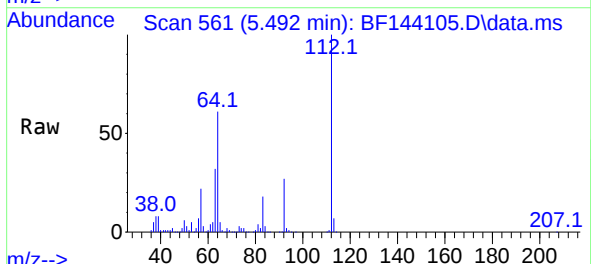
Instrument :
BNA_F
ClientSampleId :
PR132-S16-119133-20251021

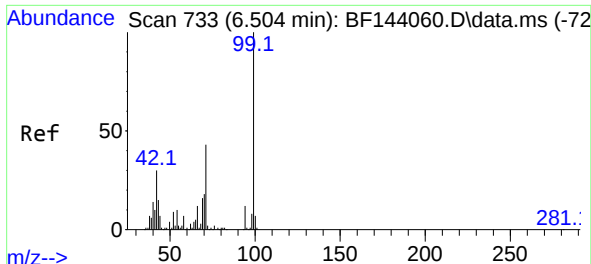
Tgt Ion:152 Resp: 62876
Ion Ratio Lower Upper
152 100
150 163.0 124.4 186.6
115 64.6 49.4 74.0



#5
2-Fluorophenol
Concen: 63.480 ng
RT: 5.492 min Scan# 561
Delta R.T. -0.000 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Tgt Ion:112 Resp: 252283
Ion Ratio Lower Upper
112 100
64 60.7 49.8 74.8
63 32.0 27.4 41.2



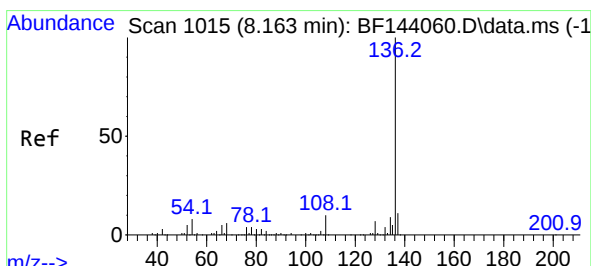
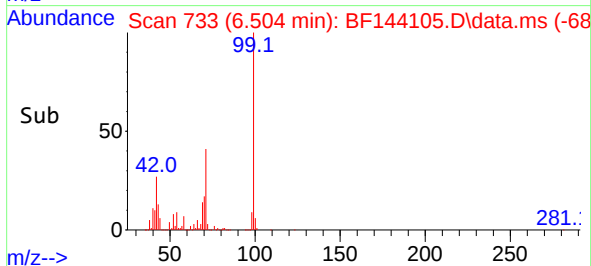
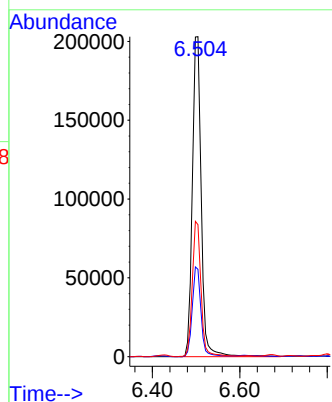
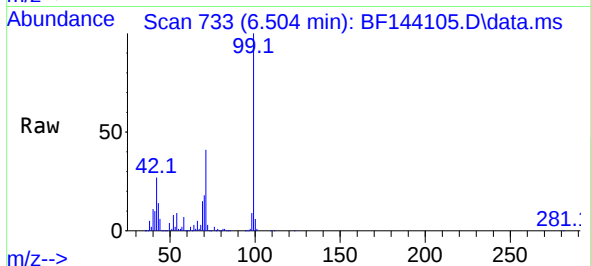


#7
Phenol-d6
Concen: 65.554 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Instrument :
BNA_F
ClientSampleId :
PR132-S16-119133-20251021

Tgt Ion: 99 Resp: 287720

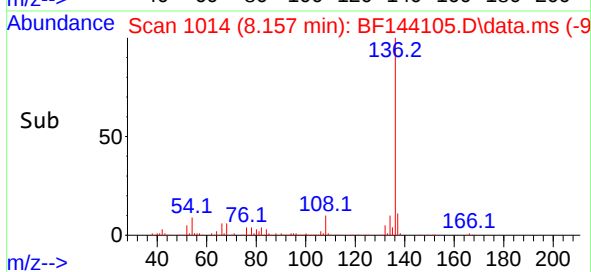
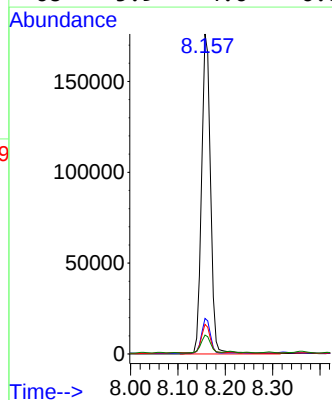
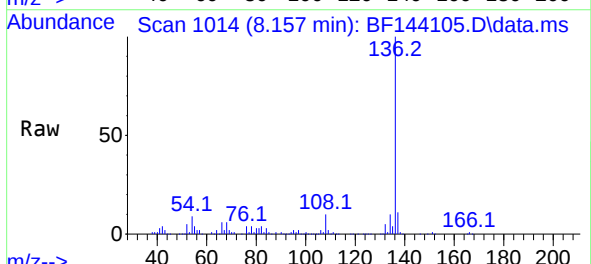
Ion	Ratio	Lower	Upper
99	100		
42	27.3	23.9	35.9
71	41.3	34.4	51.6

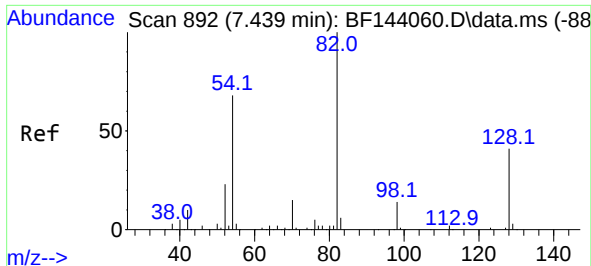


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Tgt Ion: 136 Resp: 232905

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	9.3	6.6	9.8
68	5.9	4.6	6.8

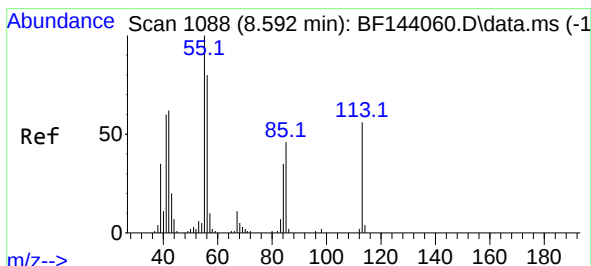
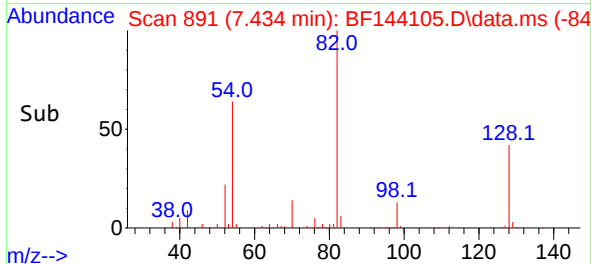
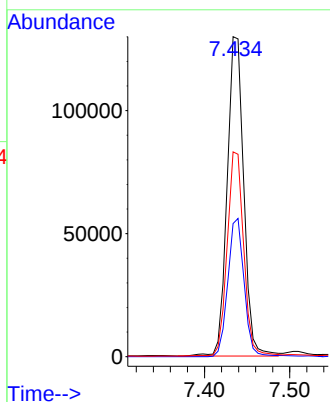
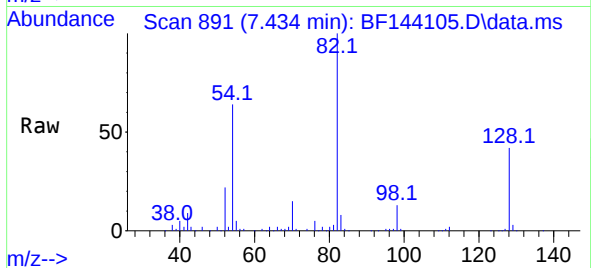




#23
Nitrobenzene-d5
Concen: 41.390 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

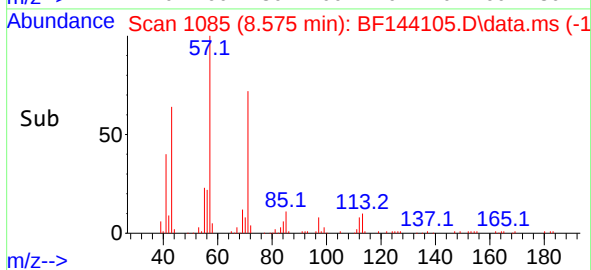
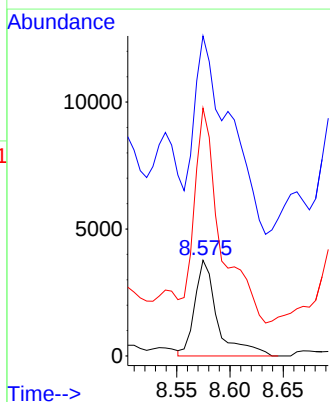
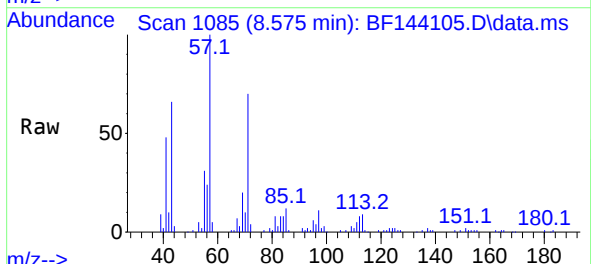
Instrument :
BNA_F
ClientSampleId :
PR132-S16-119133-20251021

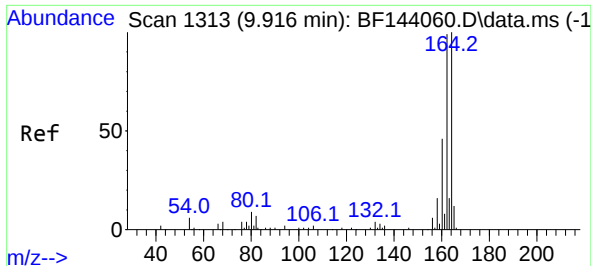
Tgt Ion: 82 Resp: 175951
Ion Ratio Lower Upper
82 100
128 41.6 32.4 48.6
54 64.0 54.0 81.0



#35
Caprolactam
Concen: 6.052 ng
RT: 8.575 min Scan# 1085
Delta R.T. -0.018 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Tgt Ion: 113 Resp: 5611
Ion Ratio Lower Upper
113 100
55 334.3 160.1 200.1#
56 258.8 124.9 164.9#

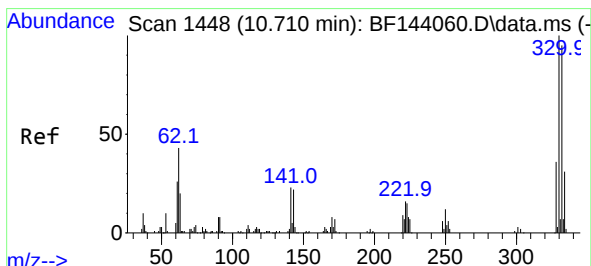
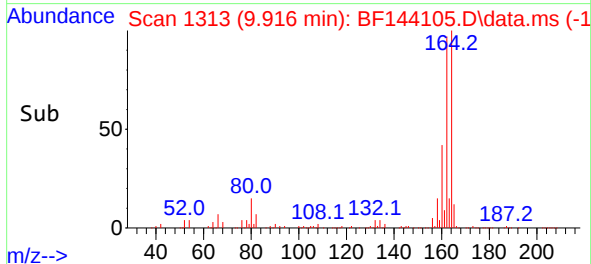
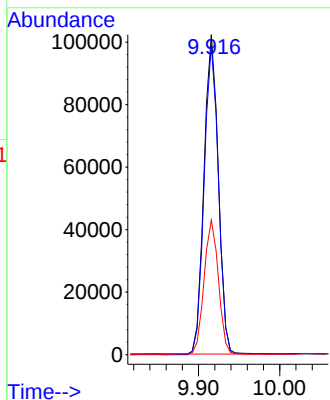
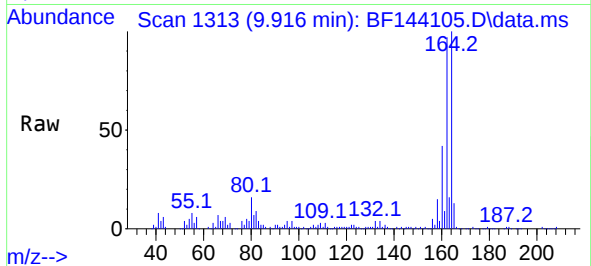




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

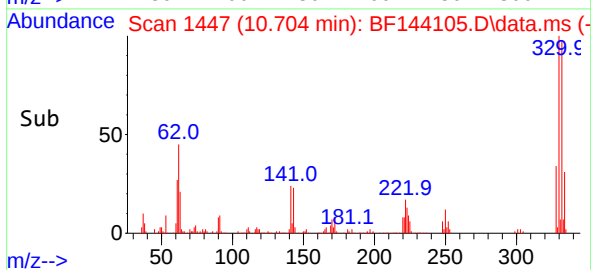
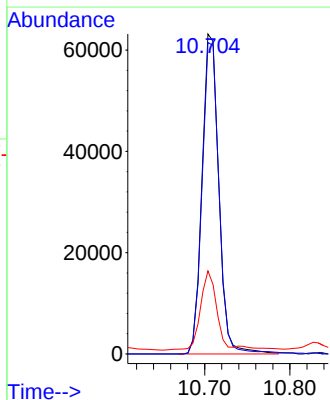
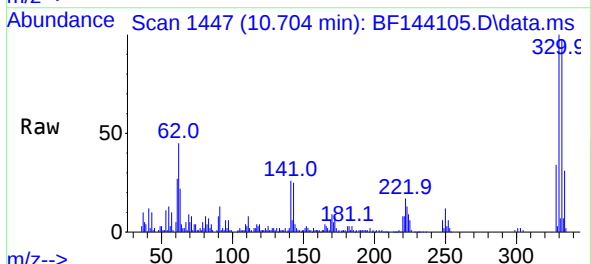
Instrument :
BNA_F
ClientSampleId :
PR132-S16-119133-20251021

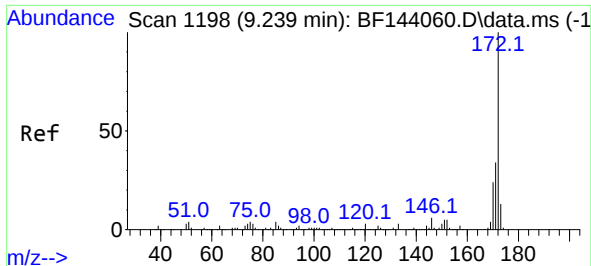
Tgt Ion:164 Resp: 124644
Ion Ratio Lower Upper
164 100
162 96.7 79.4 119.2
160 42.0 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 54.329 ng
RT: 10.704 min Scan# 1447
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Tgt Ion:330 Resp: 86260
Ion Ratio Lower Upper
330 100
332 98.4 77.0 115.6
141 23.5 19.4 29.0





#45

2-Fluorobiphenyl

Concen: 35.272 ng

RT: 9.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF144105.D

Acq: 28 Oct 2025 17:14

Instrument :

BNA_F

ClientSampleId :

PR132-S16-119133-20251021

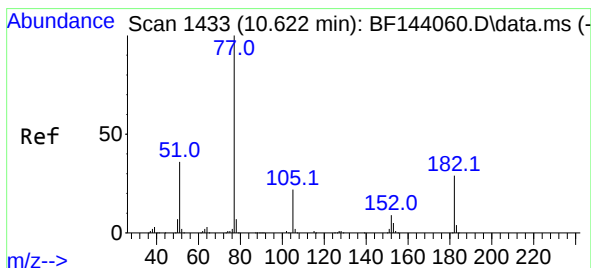
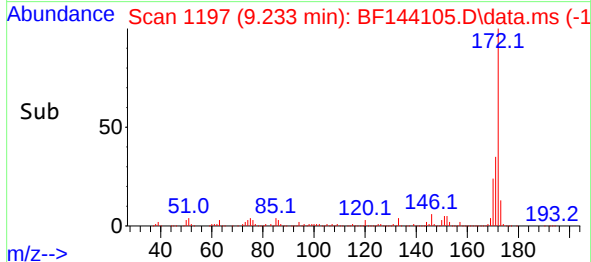
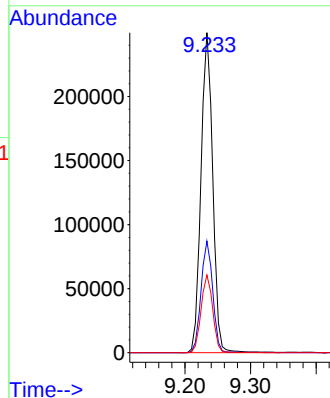
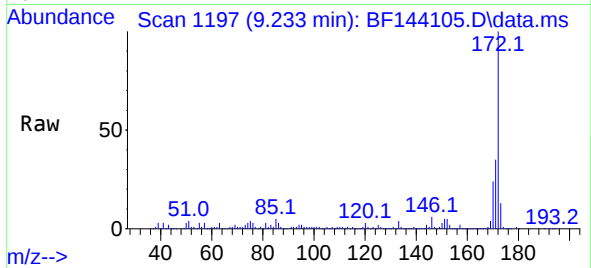
Tgt Ion:172 Resp: 312425

Ion Ratio Lower Upper

172 100

171 34.8 27.5 41.3

170 24.3 19.0 28.6



#63

Azobenzene

Concen: 2.013 ng

RT: 10.627 min Scan# 1434

Delta R.T. 0.006 min

Lab File: BF144105.D

Acq: 28 Oct 2025 17:14

Tgt Ion: 77 Resp: 14638

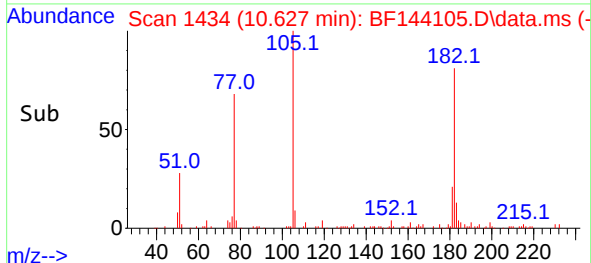
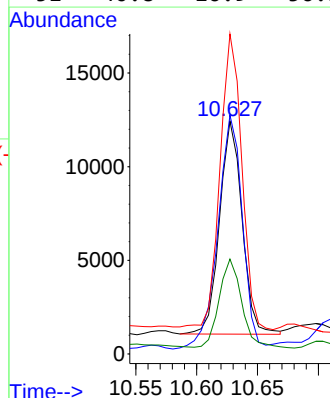
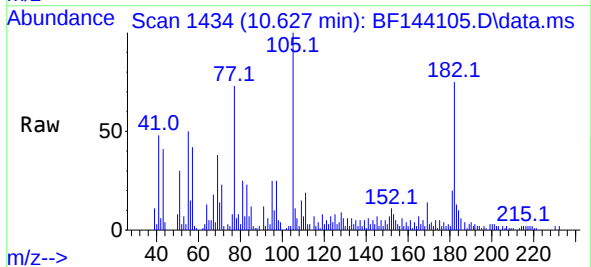
Ion Ratio Lower Upper

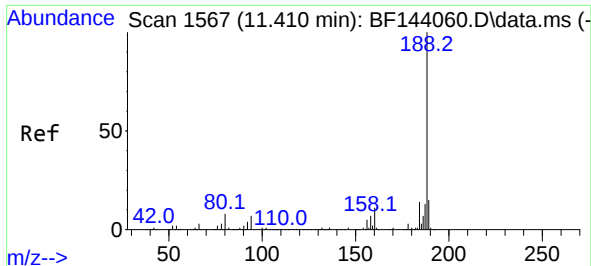
77 100

182 102.7 9.0 49.0#

105 137.5 1.4 41.4#

51 40.8 16.9 56.9

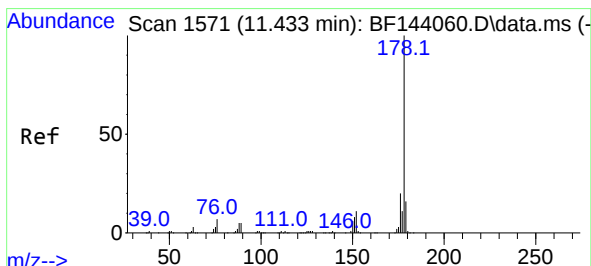
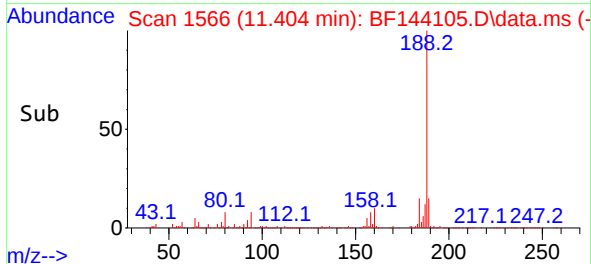
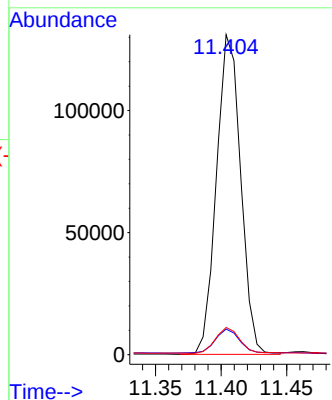
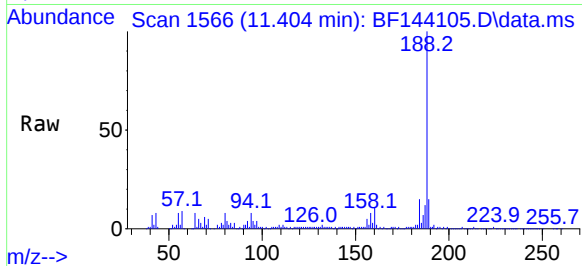




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

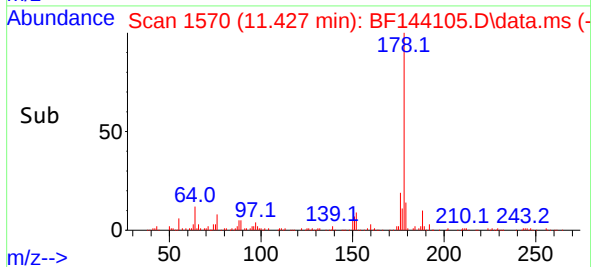
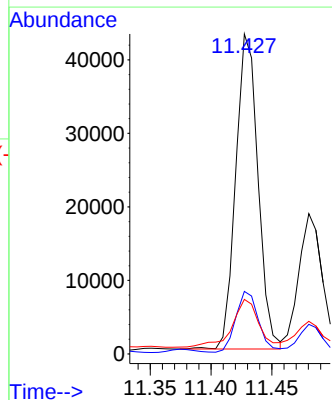
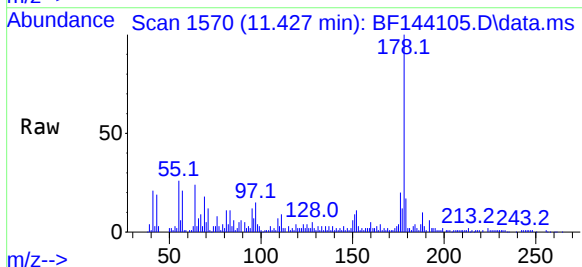
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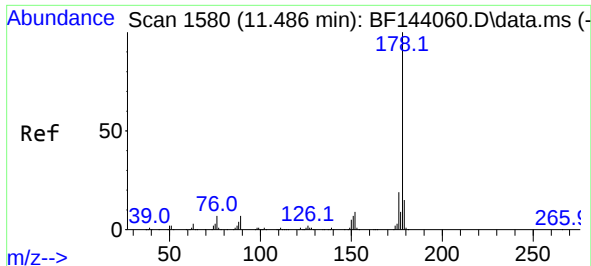
Tgt Ion:188 Resp: 167817
Ion Ratio Lower Upper
188 100
94 8.0 5.4 8.0
80 8.5 6.0 9.0



#71
Phenanthrene
Concen: 6.543 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Tgt Ion:178 Resp: 54546
Ion Ratio Lower Upper
178 100
176 19.6 16.3 24.5
179 17.0 12.6 18.8

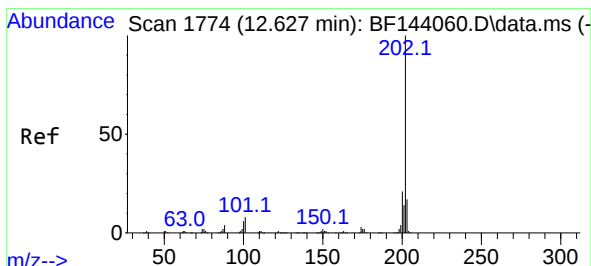
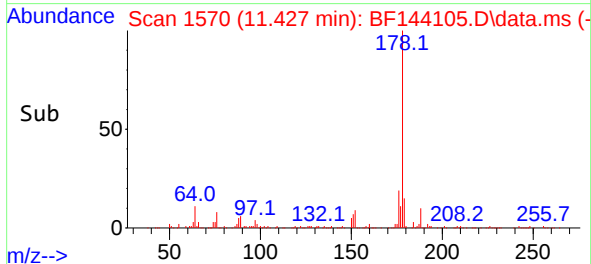
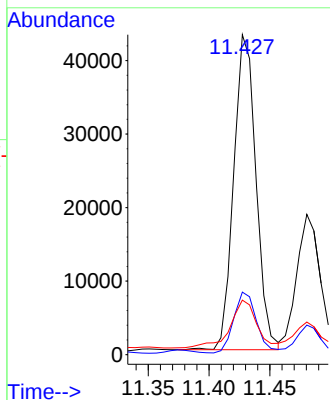
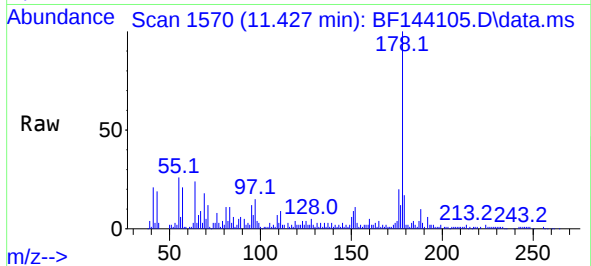




#72
 Anthracene
 Concen: 6.334 ng
 RT: 11.427 min Scan# 11427
 Delta R.T. -0.059 min
 Lab File: BF144105.D
 Acq: 28 Oct 2025 17:14

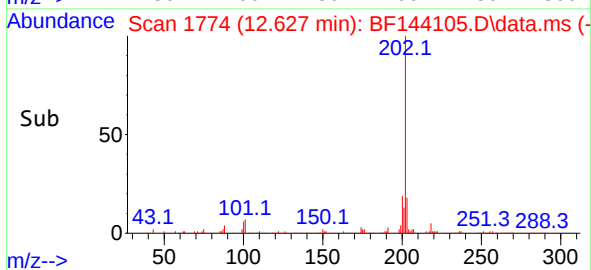
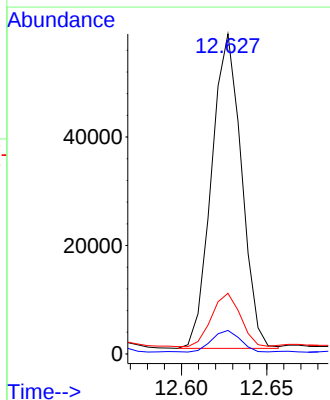
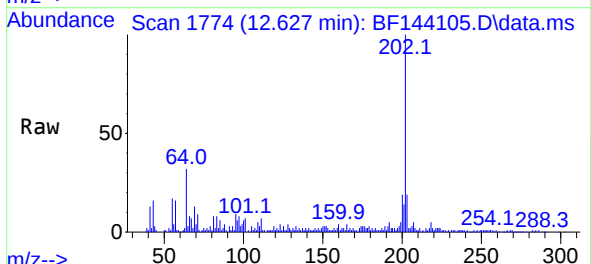
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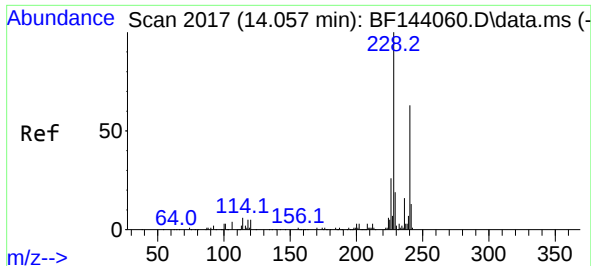
Tgt Ion:178 Resp: 54546
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.0 22.4
 179 17.0 11.8 17.6



#75
 Fluoranthene
 Concen: 7.709 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. -0.000 min
 Lab File: BF144105.D
 Acq: 28 Oct 2025 17:14

Tgt Ion:202 Resp: 71005
 Ion Ratio Lower Upper
 202 100
 101 7.4 0.0 27.7
 203 18.9 0.0 37.3

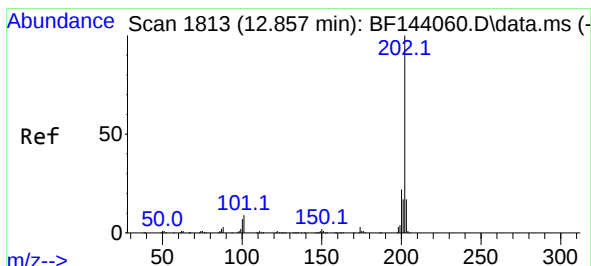
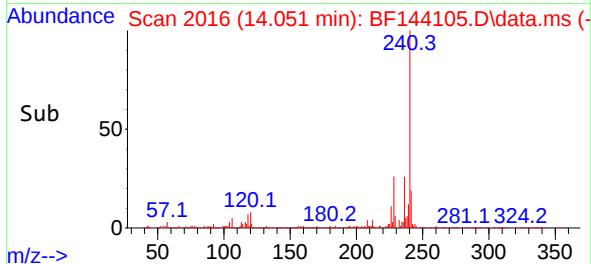
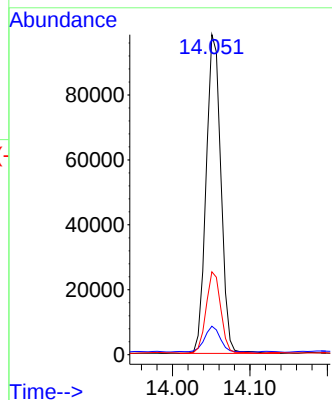
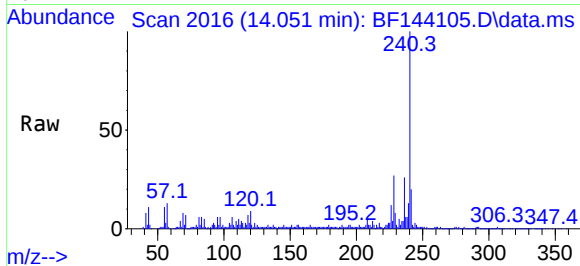




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

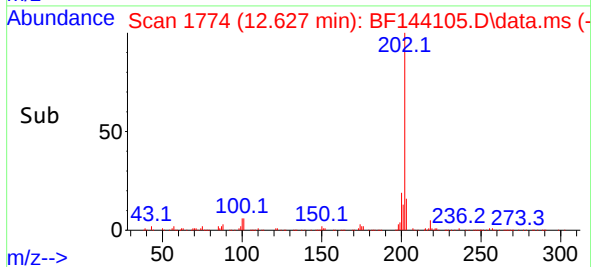
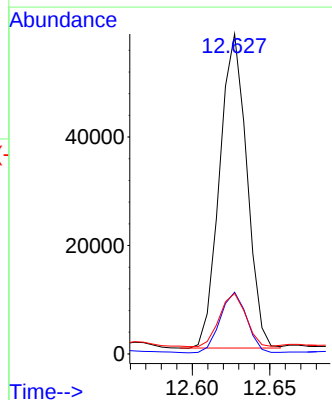
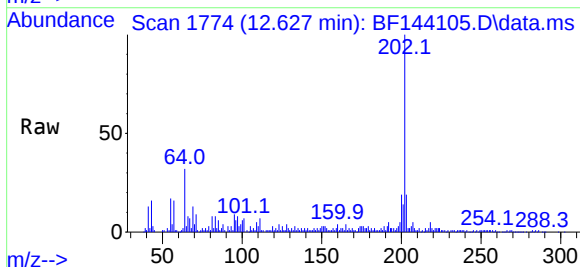
Instrument :
BNA_F
ClientSampleId :
PR132-S16-119133-20251021

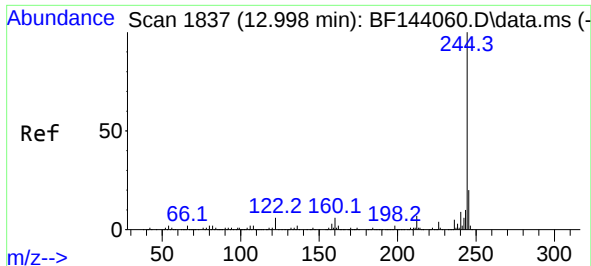
Tgt Ion:240 Resp: 129765
Ion Ratio Lower Upper
240 100
120 8.9 6.5 9.7
236 25.9 20.1 30.1



#78
Pyrene
Concen: 7.582 ng
RT: 12.627 min Scan# 1774
Delta R.T. -0.229 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Tgt Ion:202 Resp: 70735
Ion Ratio Lower Upper
202 100
200 19.3 17.2 25.8
203 18.9 13.5 20.3

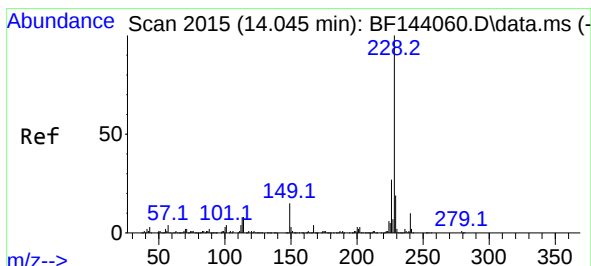
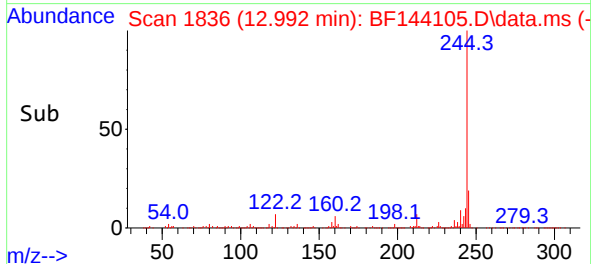
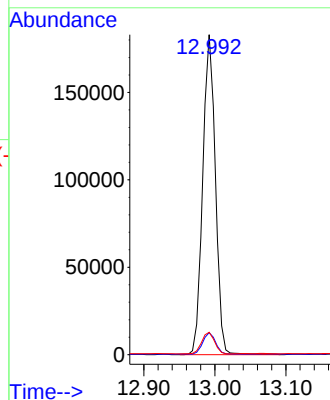
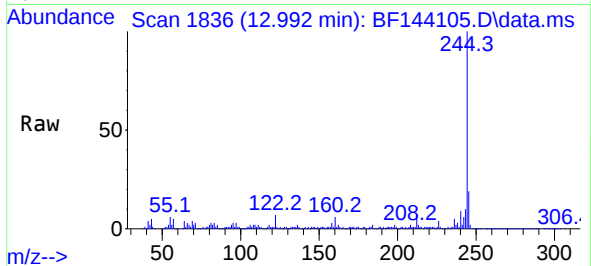




#79
 Terphenyl-d14
 Concen: 30.692 ng
 RT: 12.992 min Scan# 1836
 Delta R.T. -0.006 min
 Lab File: BF144105.D
 Acq: 28 Oct 2025 17:14

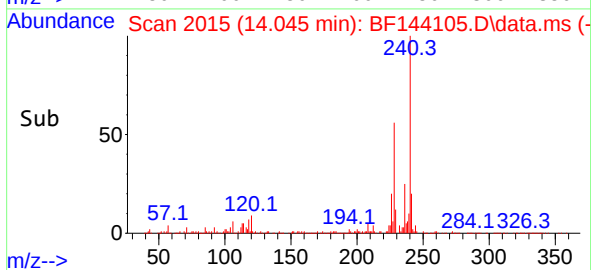
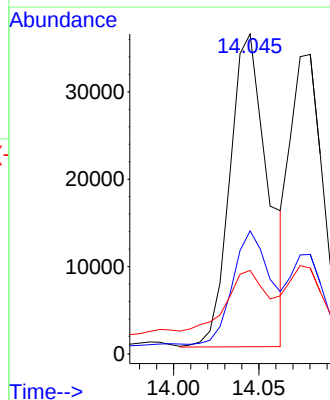
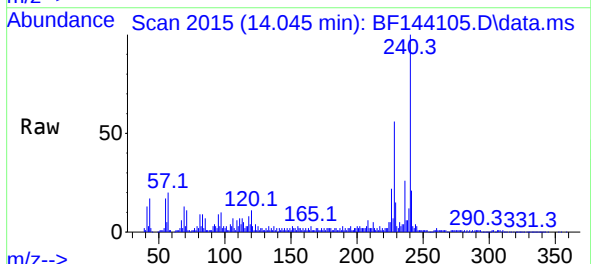
Instrument :
 BNA_F
 ClientSampleId :
 PR132-S16-119133-20251021

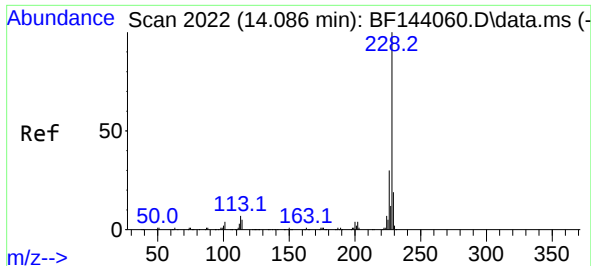
Tgt Ion:244 Resp: 227817
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.6
 122 7.0 4.9 7.3



#81
 Benzo(a)anthracene
 Concen: 6.311 ng
 RT: 14.045 min Scan# 2015
 Delta R.T. -0.000 min
 Lab File: BF144105.D
 Acq: 28 Oct 2025 17:14

Tgt Ion:228 Resp: 55346
 Ion Ratio Lower Upper
 228 100
 226 38.4 21.4 32.2#
 229 26.1 15.3 22.9#

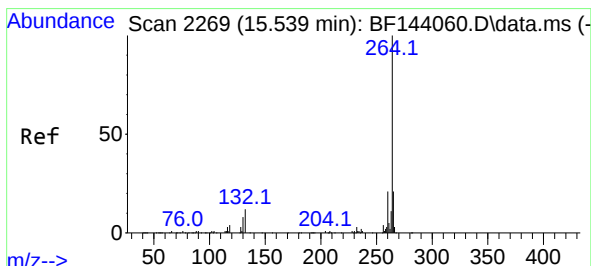
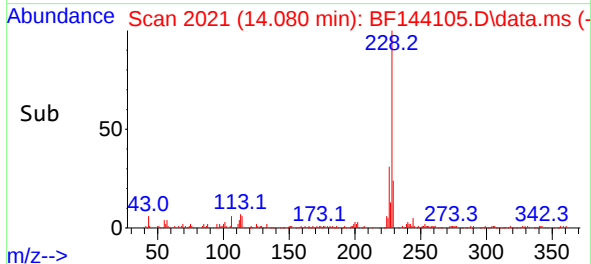
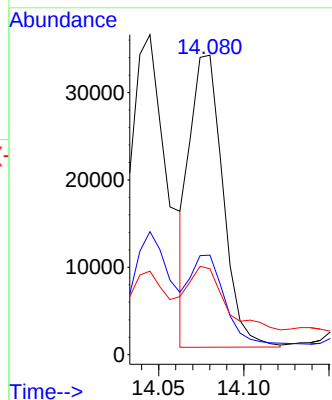
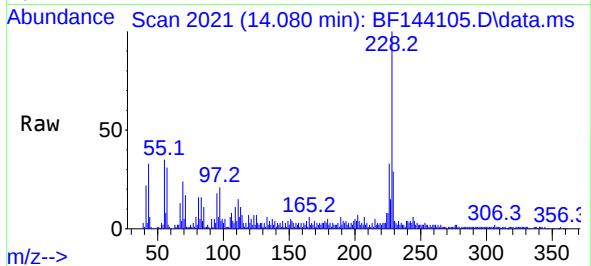




#83
Chrysene
Concen: 5.464 ng
RT: 14.080 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

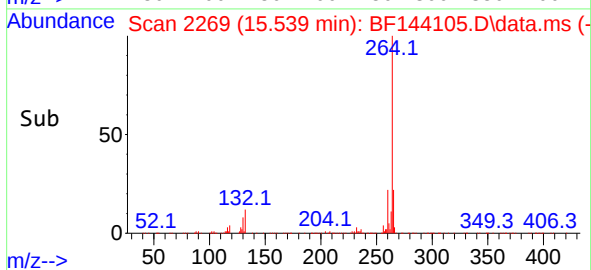
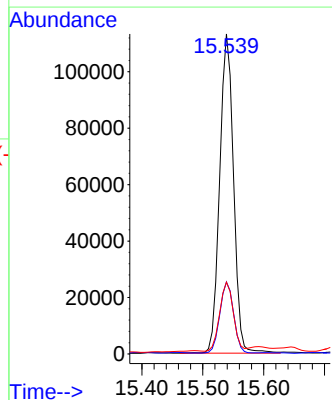
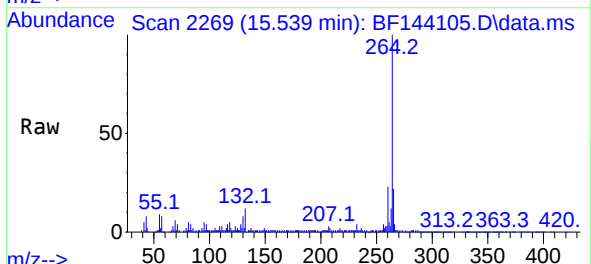
Instrument : BNA_F
ClientSampleId : PR132-S16-119133-20251021

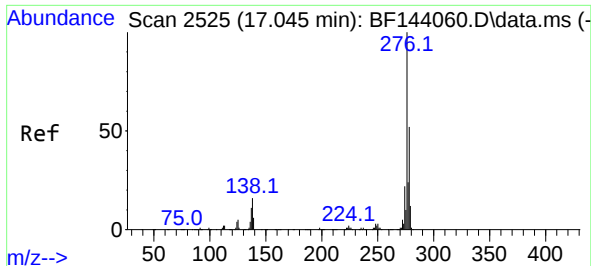
Tgt Ion:	228	Resp:	44968
Ion Ratio	Lower	Upper	
228	100		
226	33.2	23.8	35.6
229	28.7	15.6	23.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Tgt Ion:	264	Resp:	179006
Ion Ratio	Lower	Upper	
264	100		
260	22.5	17.0	25.4
265	22.5	16.6	24.8

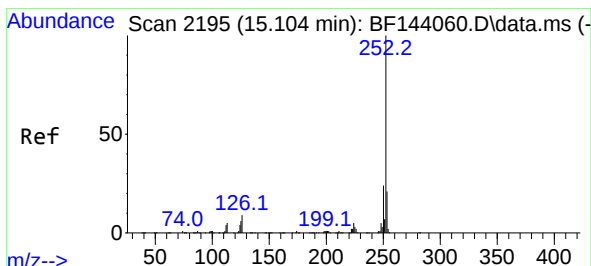
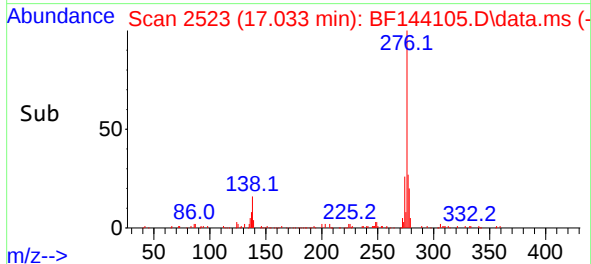
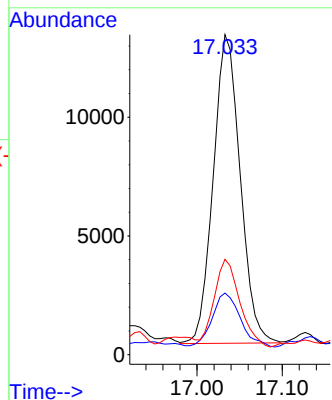
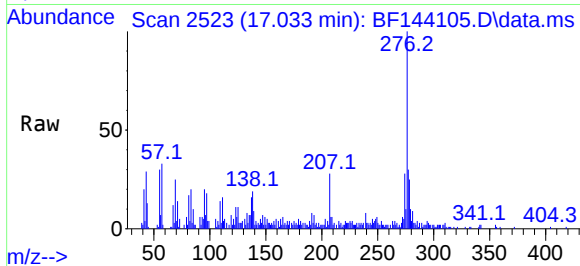




#87
Indeno(1,2,3-cd)pyrene
Concen: 2.322 ng
RT: 17.033 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

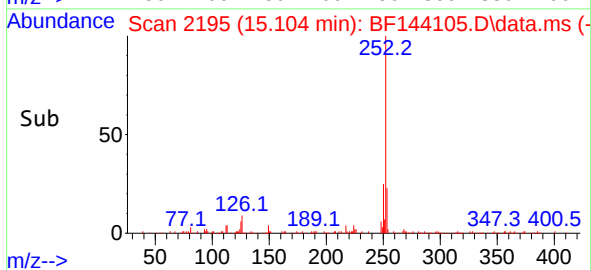
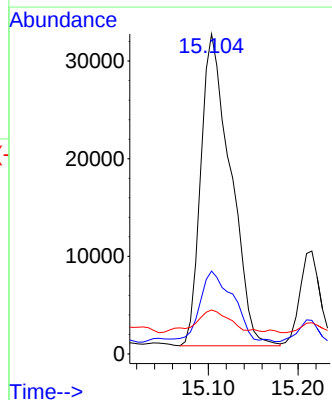
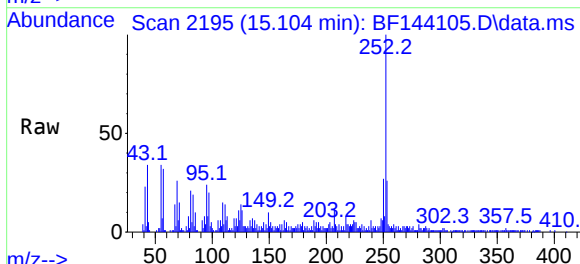
Instrument :
BNA_F
ClientSampleId :
PR132-S16-119133-20251021

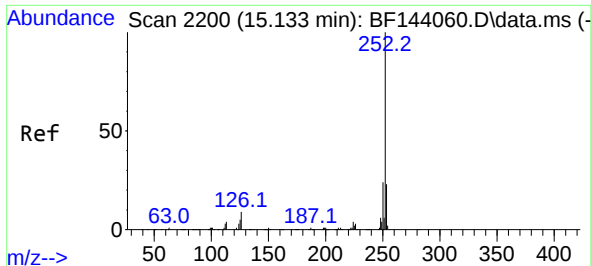
Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.3	13.0	19.6
277	26.8	19.4	29.0



#88
Benzo(b)fluoranthene
Concen: 7.252 ng
RT: 15.104 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.9	17.2	25.8#
125	13.8	5.0	7.6#

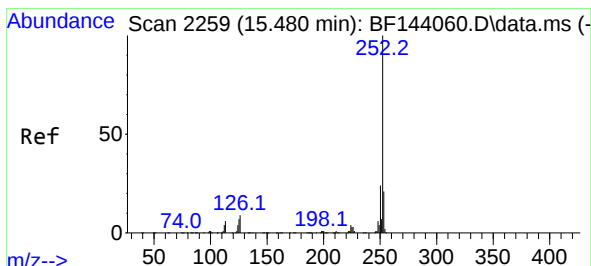
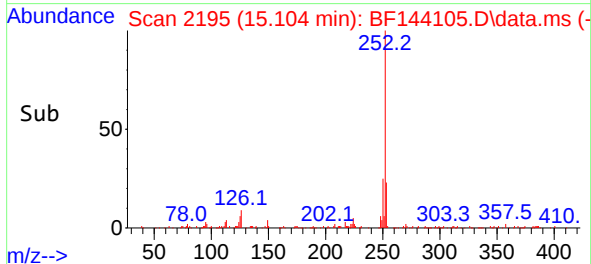
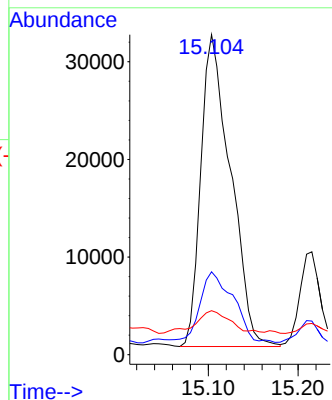
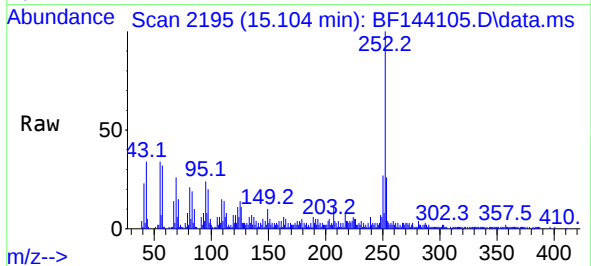




#89
Benzo(k)fluoranthene
Concen: 7.860 ng
RT: 15.104 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

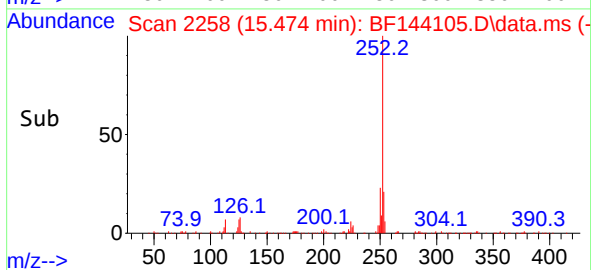
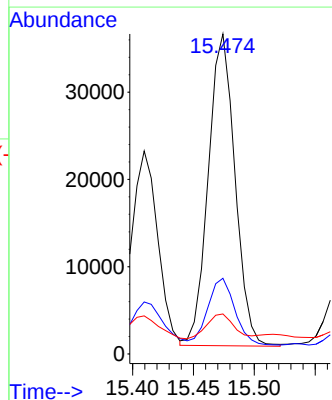
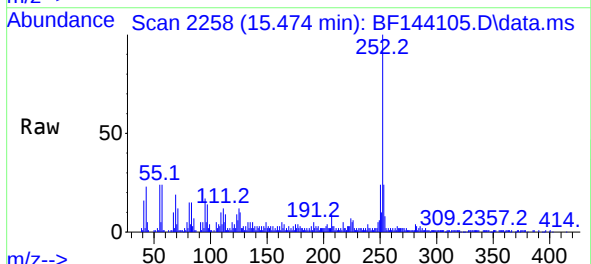
Instrument :
BNA_F
ClientSampleId :
PR132-S16-119133-20251021

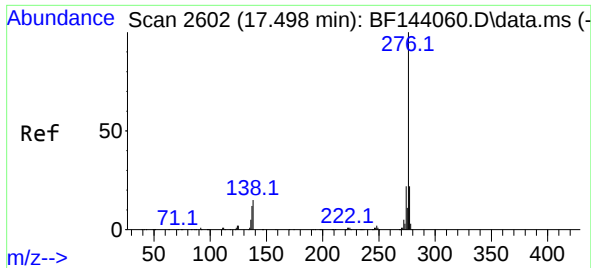
Tgt Ion:252 Resp: 73386
Ion Ratio Lower Upper
252 100
253 25.9 17.4 26.2
125 13.8 4.9 7.3#



#90
Benzo(a)pyrene
Concen: 6.005 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF144105.D
Acq: 28 Oct 2025 17:14

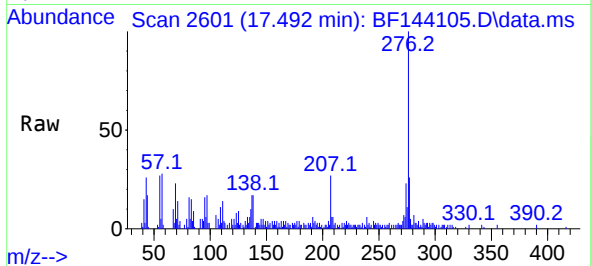
Tgt Ion:252 Resp: 54520
Ion Ratio Lower Upper
252 100
253 23.6 17.1 25.7
125 12.5 5.4 8.2#





#92
 Benzo(g,h,i)perylene
 Concen: 3.130 ng
 RT: 17.492 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: BF144105.D
 Acq: 28 Oct 2025 17:14

Instrument :
 BNA_F
 ClientSampleId :
 PR132-S16-119133-20251021



Tgt Ion:	276	Resp:	30614
Ion	Ratio	Lower	Upper
276	100		
277	25.8	17.9	26.9
138	16.5	12.0	18.0

