

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
 Data File : BN038371.D
 Acq On : 13 Dec 2025 04:16
 Operator : RC/JU
 Sample : Q3839-11
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 C0AN7

Quant Time: Dec 13 06:07:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 10 13:56:50 2025
 Response via : Initial Calibration

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

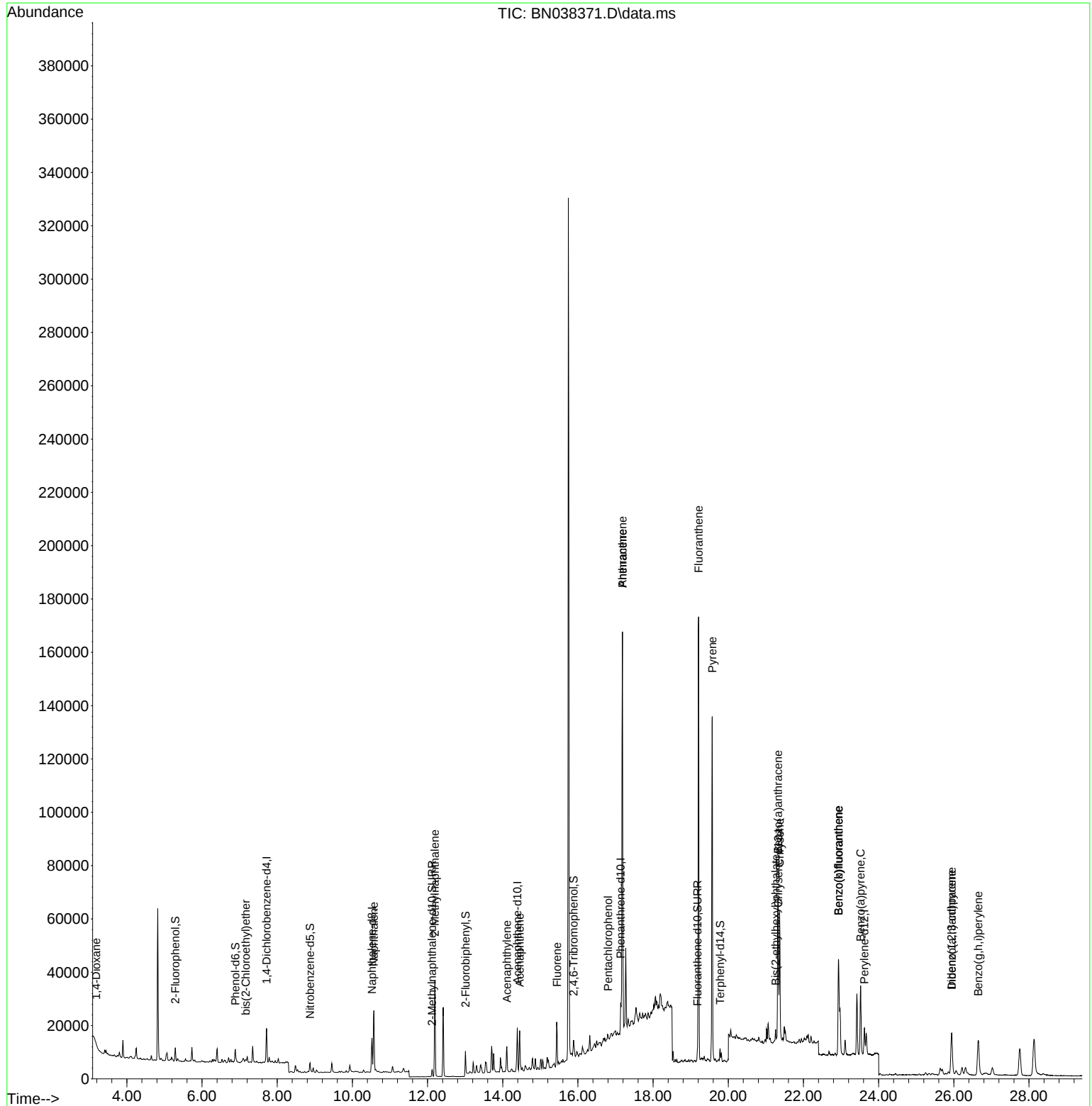
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	5826	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	15671	0.400	ng	#-0.01
13) Acenaphthene-d10	14.388	164	8403	0.400	ng	-0.01
19) Phenanthrene-d10	17.136	188	15978	0.400	ng	#-0.01
29) Chrysene-d12	21.331	240	13134	0.400	ng	# 0.00
35) Perylene-d12	23.622	264	14100	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	3920	0.270	ng	0.00
5) Phenol-d6	6.887	99	4270	0.248	ng	0.00
8) Nitrobenzene-d5	8.875	82	3024	0.229	ng	0.00
11) 2-Methylnaphthalene-d10	12.121	152	3702	0.167	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	839	0.225	ng	-0.01
15) 2-Fluorobiphenyl	13.008	172	7960	0.197	ng	0.00
27) Fluoranthene-d10	19.178	212	4355	0.110	ng	0.00
31) Terphenyl-d14	19.782	244	4178	0.143	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.182	88	145	0.022	ng	# 20
6) bis(2-Chloroethyl)ether	7.161	93	978	0.058	ng	# 24
9) Naphthalene	10.573	128	30960	0.668	ng	99
12) 2-Methylnaphthalene	12.192	142	26294	0.894	ng	100
16) Acenaphthylene	14.110	152	5064	0.123	ng	# 85
17) Acenaphthene	14.452	154	6942	0.241	ng	95
18) Fluorene	15.446	166	7464	0.202	ng	# 95
24) Pentachlorophenol	16.801	266	142	0.026	ng	# 18
25) Phenanthrene	17.186	178	160406	2.884	ng	98
26) Anthracene	17.186	178	160406	3.345	ng	97
28) Fluoranthene	19.211	202	148059	2.505	ng	99
30) Pyrene	19.573	202	117521	1.818	ng	97
32) Benzo(a)anthracene	21.322	228	45371	0.894	ng	98
33) Chrysene	21.366	228	46804	0.838	ng	97
34) Bis(2-ethylhexyl)phtha...	21.259	149	3858	0.139	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.943	276	25270	0.338	ng	95
37) Benzo(b)fluoranthene	22.932	252	56231	0.868	ng	99
38) Benzo(k)fluoranthene	22.932	252	56231	0.871	ng	98
39) Benzo(a)pyrene	23.519	252	38605	0.728	ng	93
40) Dibenzo(a,h)anthracene	25.946	278	6056	0.105	ng	# 72
41) Benzo(g,h,i)perylene	26.648	276	28397	0.440	ng	99

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

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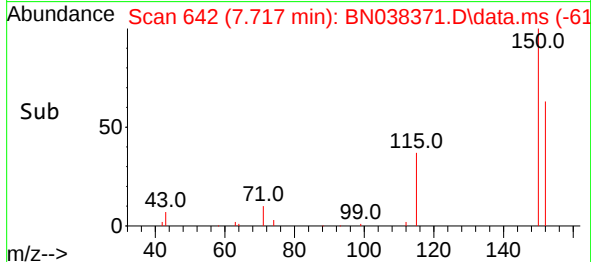
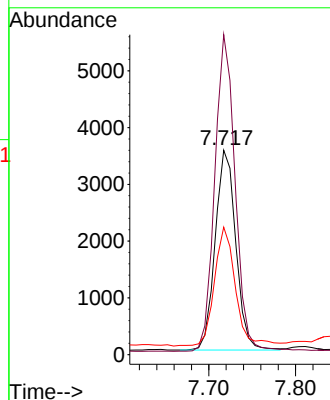
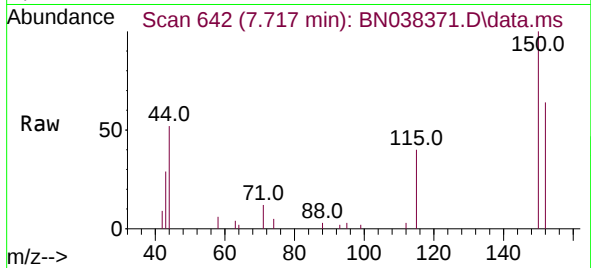




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.717 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16

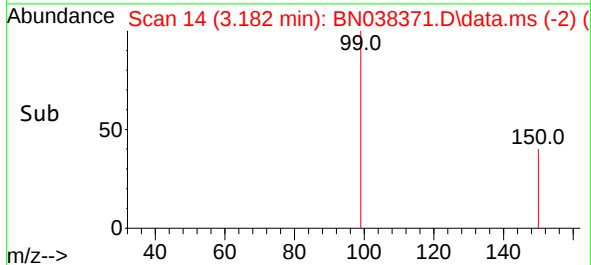
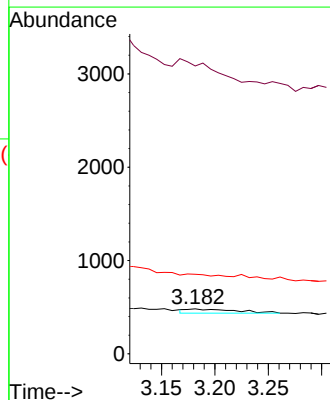
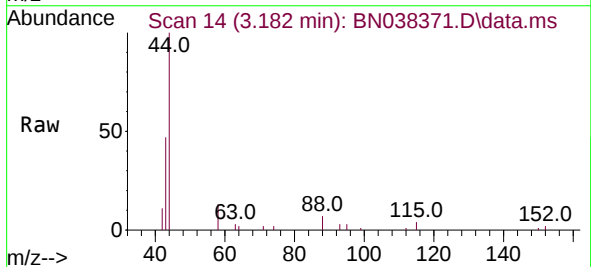
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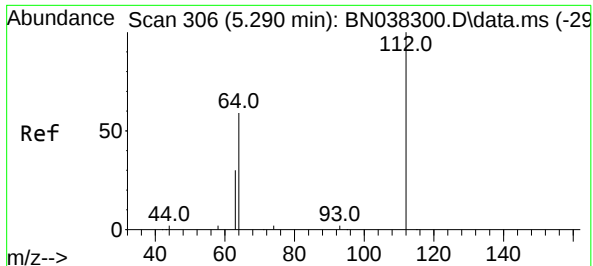
Tgt Ion:152 Resp: 5826
 Ion Ratio Lower Upper
 152 100
 150 156.5 122.4 183.6
 115 62.3 47.3 70.9



#2
 1,4-Dioxane
 Concen: 0.022 ng
 RT: 3.182 min Scan# 14
 Delta R.T. -0.014 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16

Tgt Ion: 88 Resp: 145
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.9 37.3#
 58 0.0 61.4 92.0#

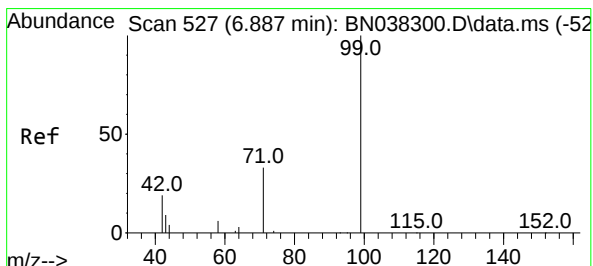
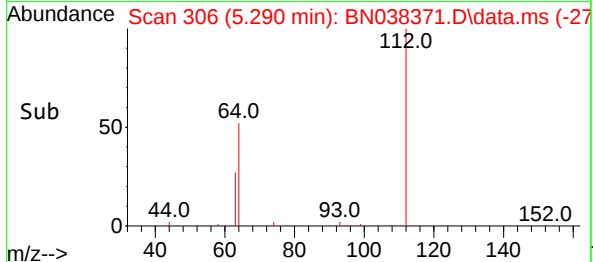
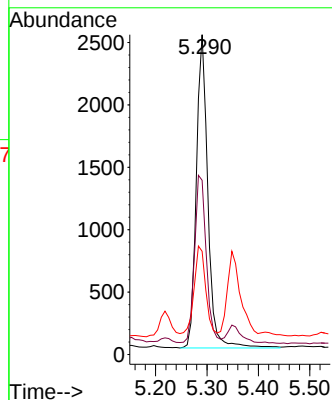
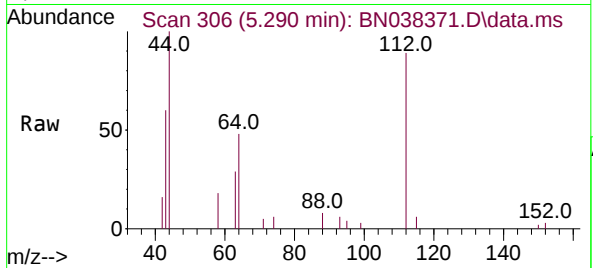




#4
2-Fluorophenol
Concen: 0.270 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

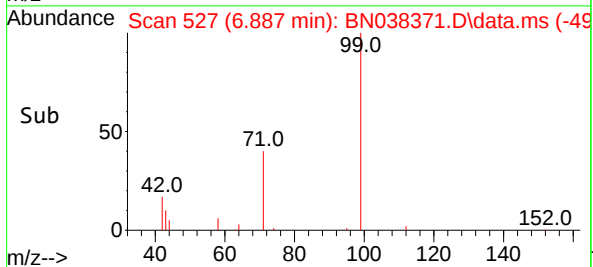
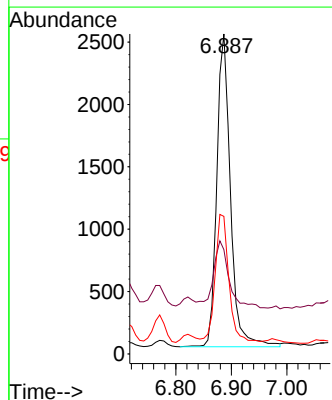
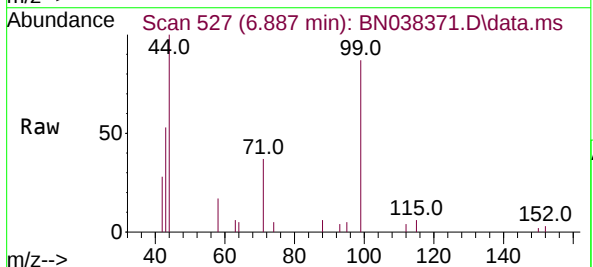
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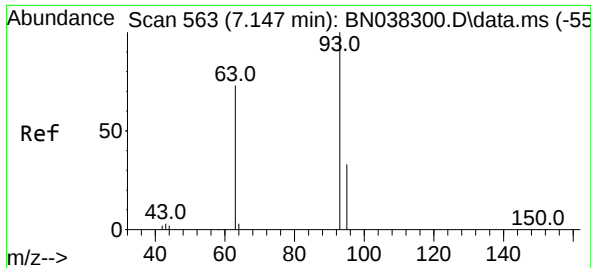
Tgt Ion:112 Resp: 3920
Ion Ratio Lower Upper
112 100
64 55.2 44.4 66.6
63 27.8 23.4 35.0



#5
Phenol-d6
Concen: 0.248 ng
RT: 6.887 min Scan# 527
Delta R.T. 0.000 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion: 99 Resp: 4270
Ion Ratio Lower Upper
99 100
42 23.4 16.5 24.7
71 41.6 24.9 37.3#

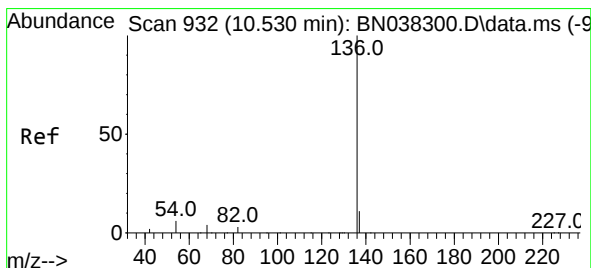
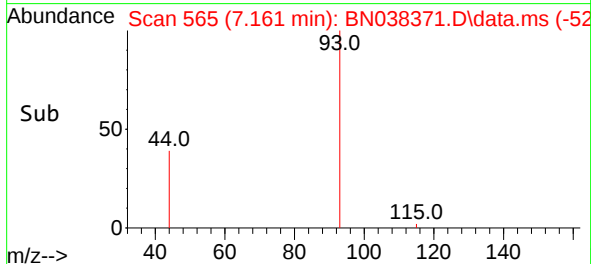
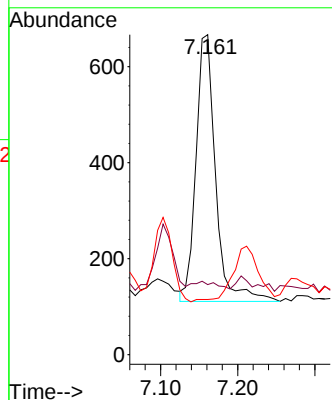
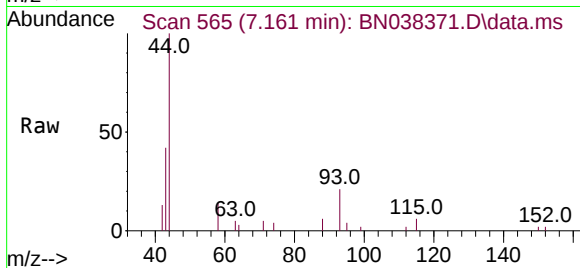




#6
bis(2-Chloroethyl)ether
Concen: 0.058 ng
RT: 7.161 min Scan# 563
Delta R.T. 0.014 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

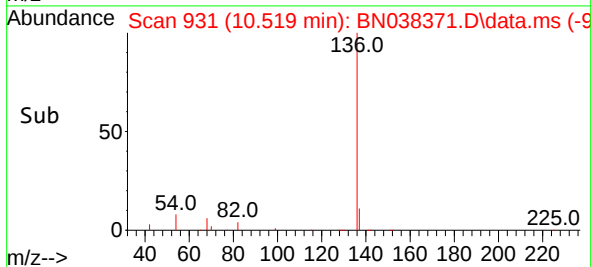
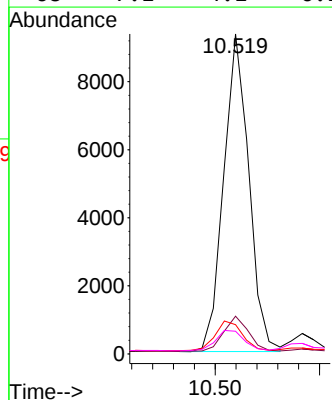
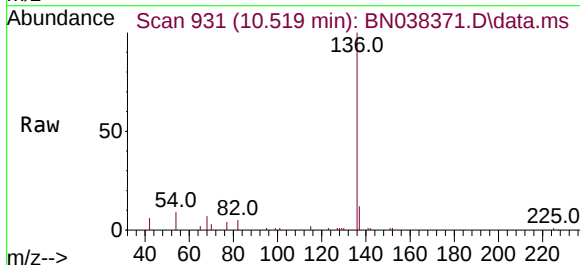
Instrument :
BNA_N
ClientSampleId :
COAN7

Tgt Ion: 93 Resp: 978
Ion Ratio Lower Upper
93 100
63 2.6 59.2 88.8#
95 0.0 25.2 37.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 931
Delta R.T. -0.011 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion: 136 Resp: 15671
Ion Ratio Lower Upper
136 100
137 11.8 9.1 13.7
54 9.1 5.2 7.8#
68 7.1 4.1 6.1#

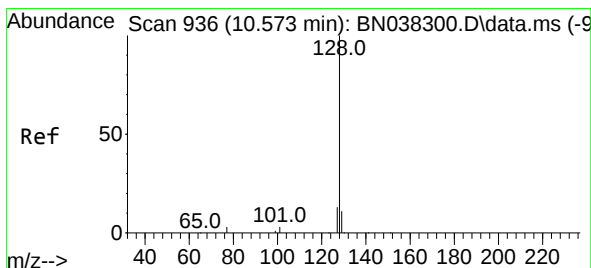
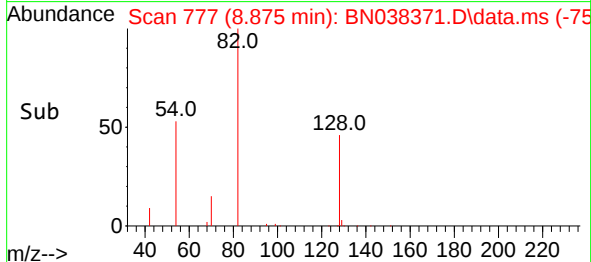
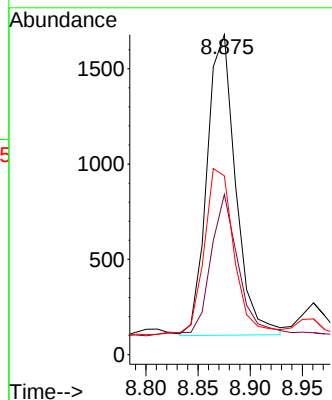
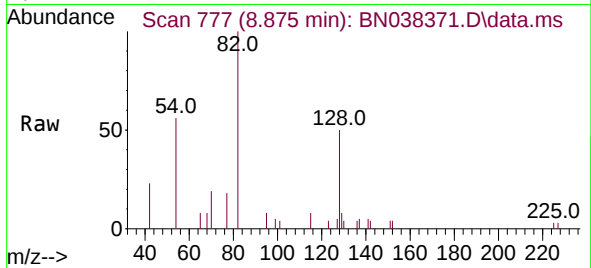




#8
 Nitrobenzene-d5
 Concen: 0.229 ng
 RT: 8.875 min Scan# 777
 Delta R.T. 0.000 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16

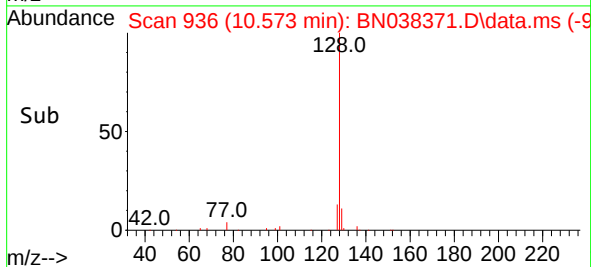
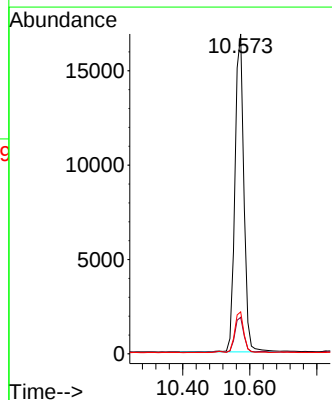
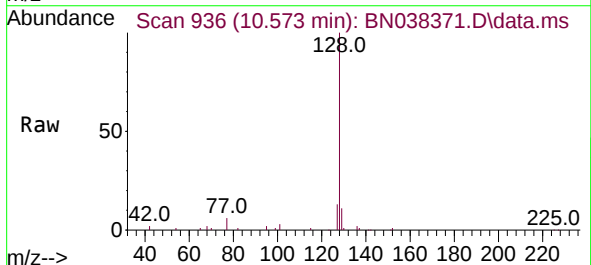
Instrument :
 BNA_N
 ClientSampleId :
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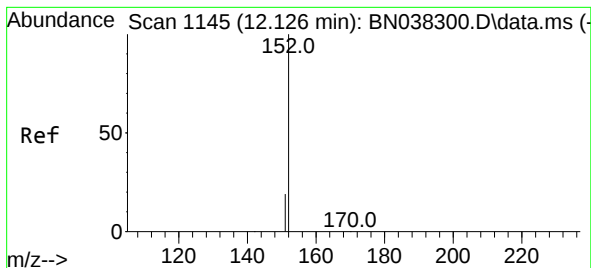
Tgt Ion: 82 Resp: 3024
 Ion Ratio Lower Upper
 82 100
 128 50.0 34.0 51.0
 54 55.9 44.4 66.6



#9
 Naphthalene
 Concen: 0.668 ng
 RT: 10.573 min Scan# 936
 Delta R.T. 0.000 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16

Tgt Ion: 128 Resp: 30960
 Ion Ratio Lower Upper
 128 100
 129 11.4 9.1 13.7
 127 13.1 10.9 16.3

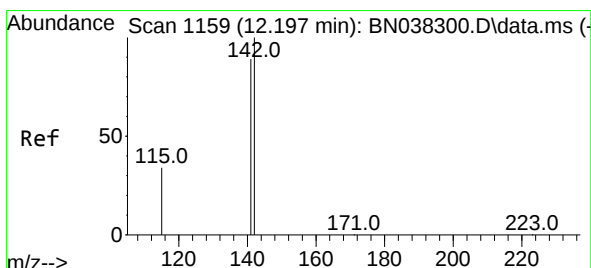
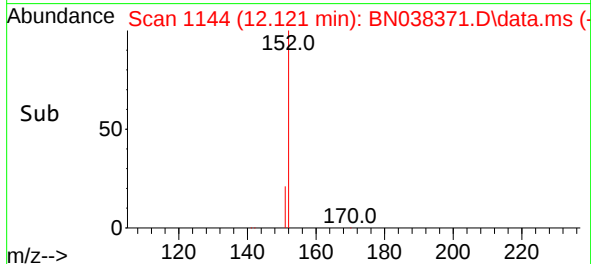
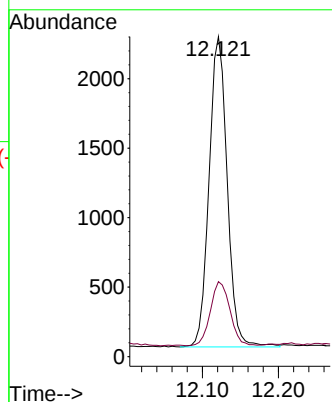
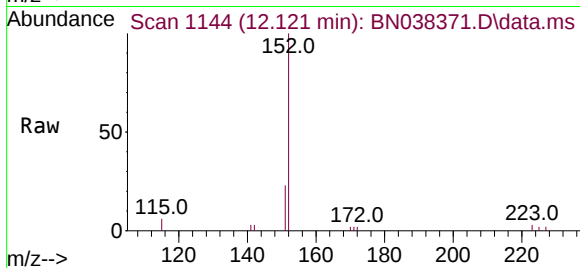




#11
2-Methylnaphthalene-d10
Concen: 0.167 ng
RT: 12.121 min Scan# 1144
Delta R.T. -0.005 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

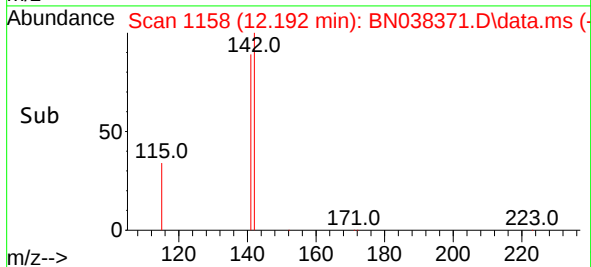
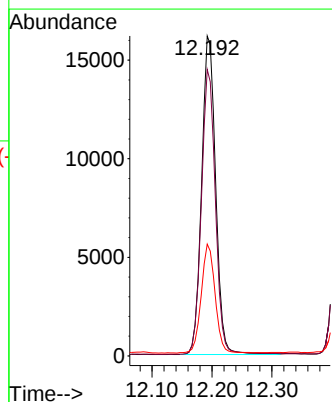
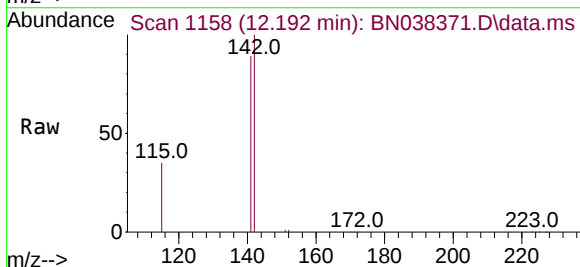
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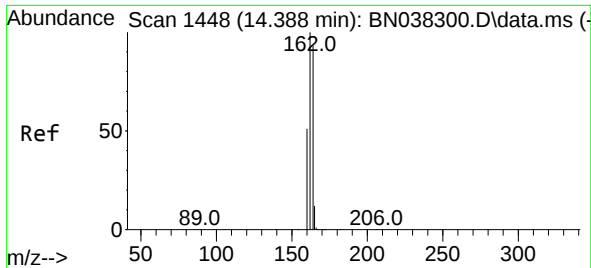
Tgt Ion:152 Resp: 3702
Ion Ratio Lower Upper
152 100
151 22.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.894 ng
RT: 12.192 min Scan# 1158
Delta R.T. -0.010 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion:142 Resp: 26294
Ion Ratio Lower Upper
142 100
141 89.5 71.4 107.2
115 34.9 28.4 42.6

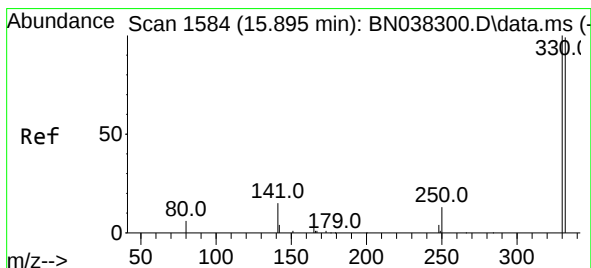
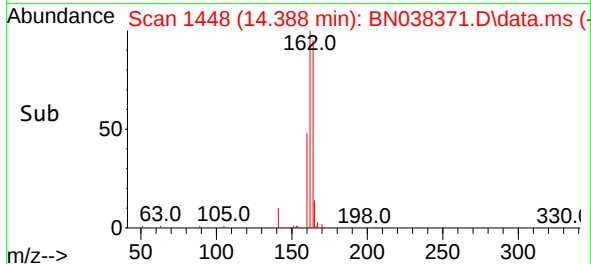
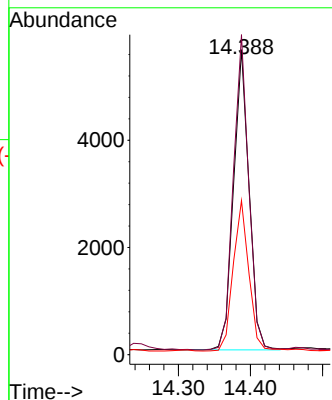
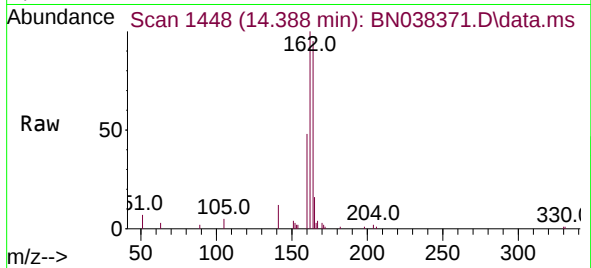




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

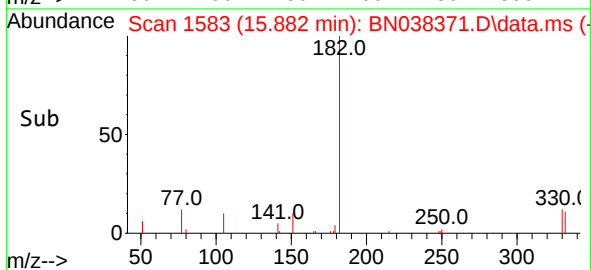
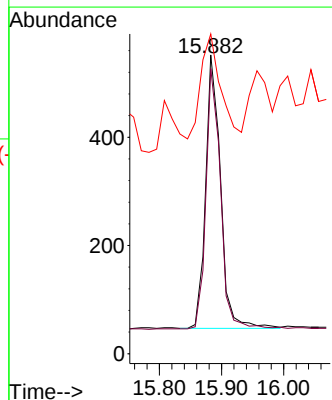
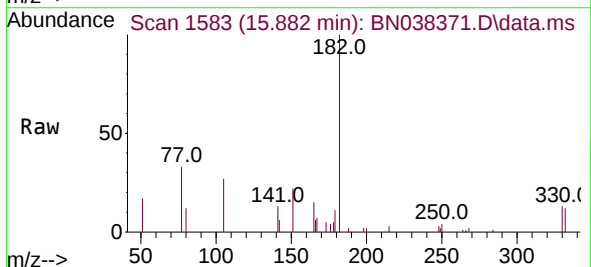
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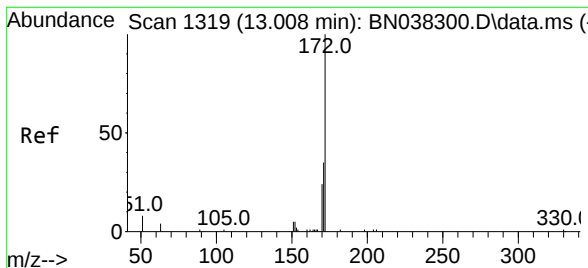
Tgt Ion:164 Resp: 8403
Ion Ratio Lower Upper
164 100
162 105.0 86.2 129.4
160 50.5 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 0.225 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.012 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion:330 Resp: 839
Ion Ratio Lower Upper
330 100
332 93.1 75.8 113.6
141 50.7 31.8 47.8#

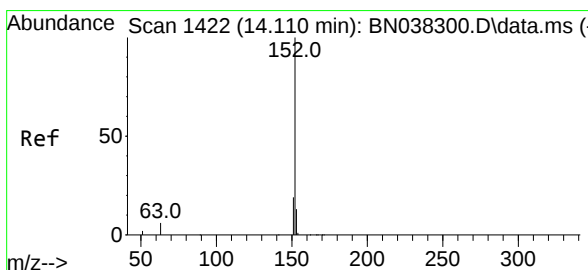
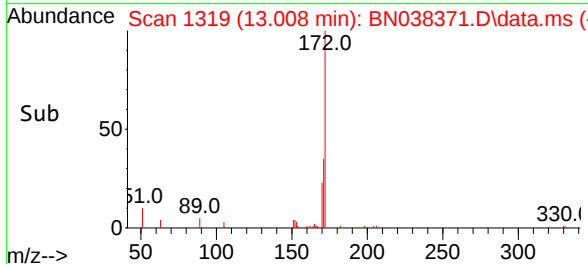
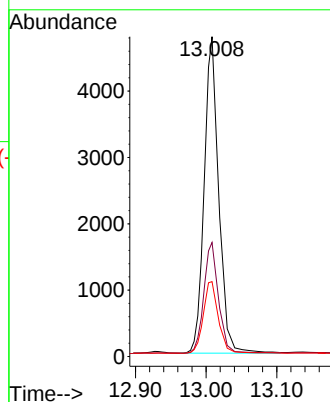
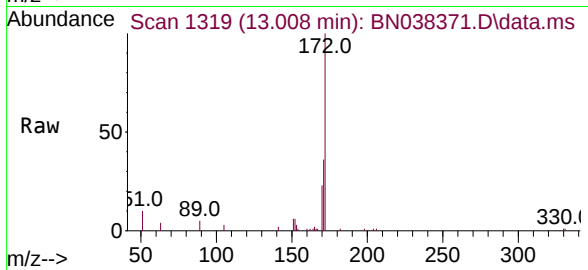




#15
2-Fluorobiphenyl
Concen: 0.197 ng
RT: 13.008 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

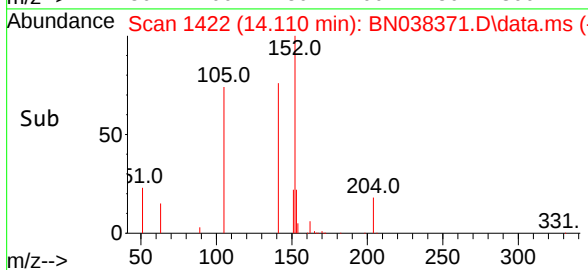
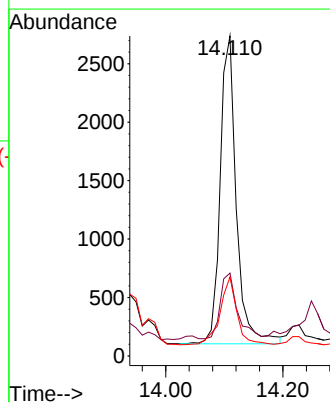
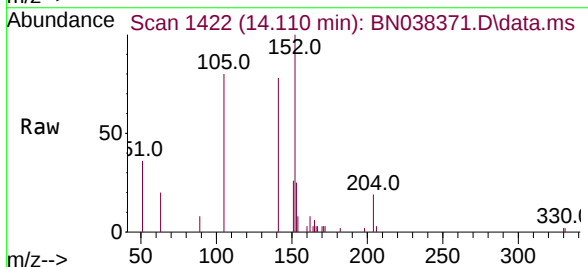
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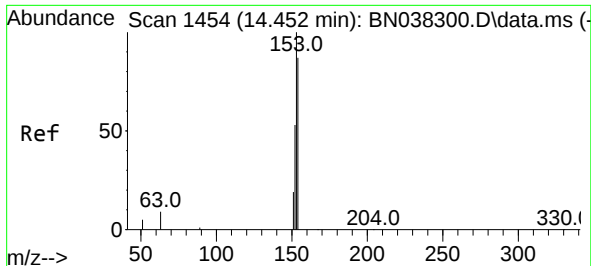
Tgt Ion:	172	Resp:	7960
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.6	42.8
170	23.4	19.3	28.9



#16
Acenaphthylene
Concen: 0.123 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion:	152	Resp:	5064
Ion Ratio	Lower	Upper	
152	100		
151	22.6	15.4	23.2
153	22.9	10.2	15.4

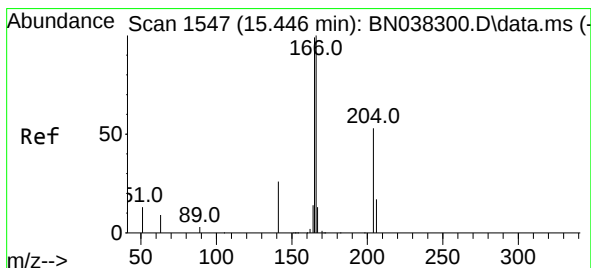
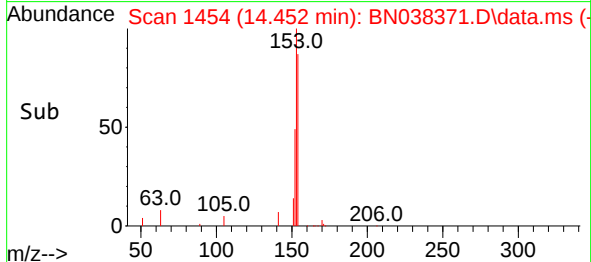
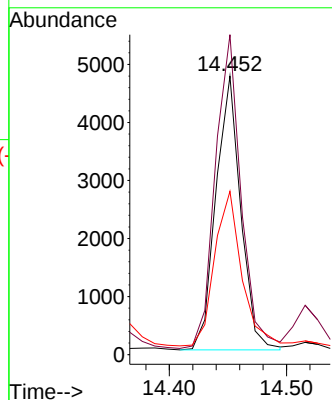
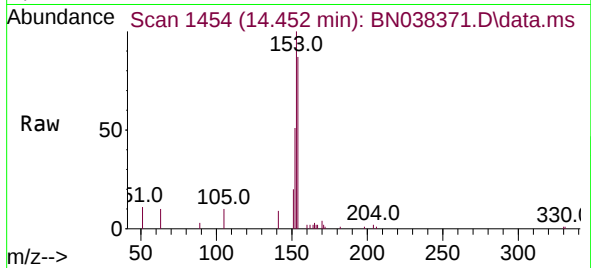




#17
Acenaphthene
Concen: 0.241 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.011 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

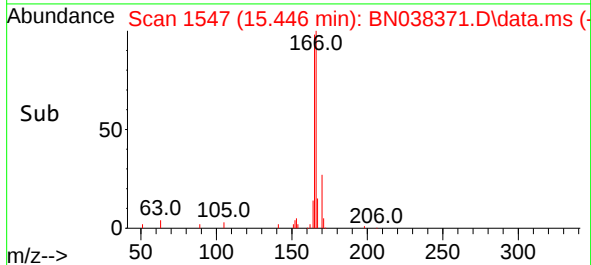
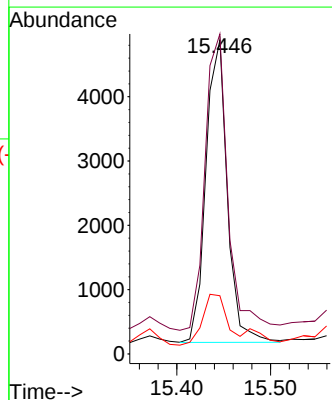
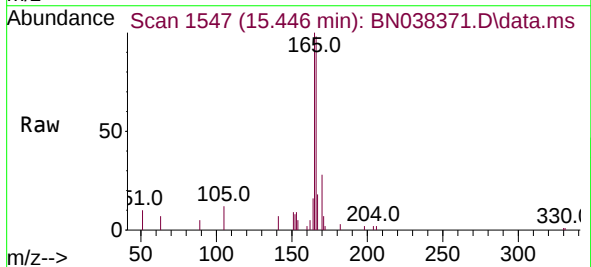
Instrument :
BNA_N
ClientSampleId :
COAN7

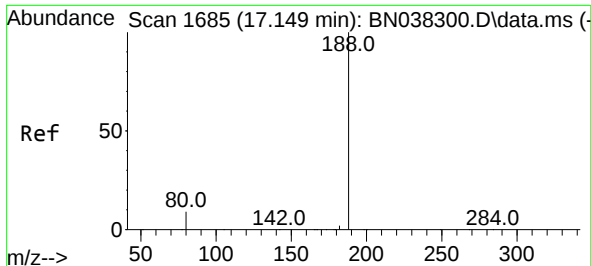
Tgt Ion:154 Resp: 6942
Ion Ratio Lower Upper
154 100
153 118.3 89.8 134.8
152 61.8 47.5 71.3



#18
Fluorene
Concen: 0.202 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion:166 Resp: 7464
Ion Ratio Lower Upper
166 100
165 104.4 80.2 120.4
167 19.3 10.6 16.0#

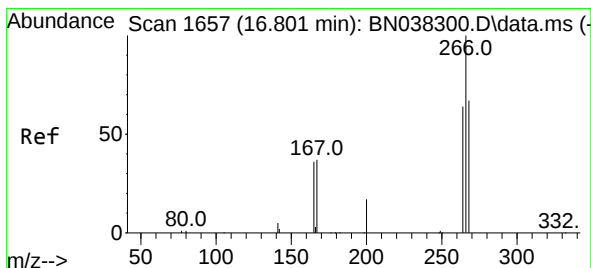
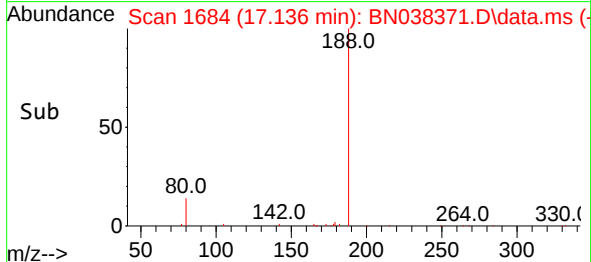
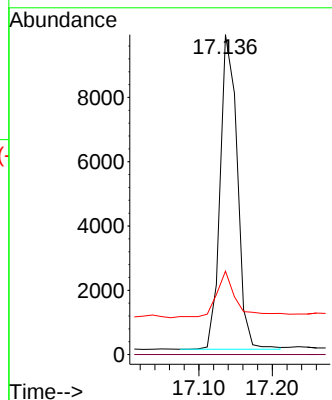
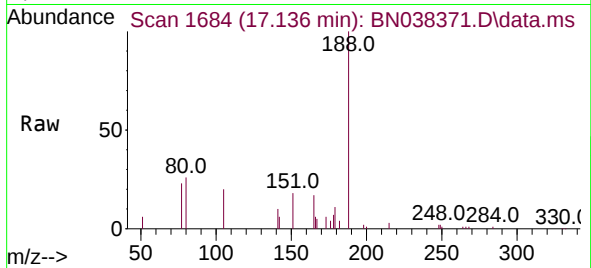




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

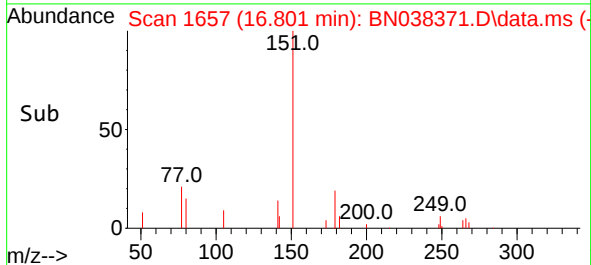
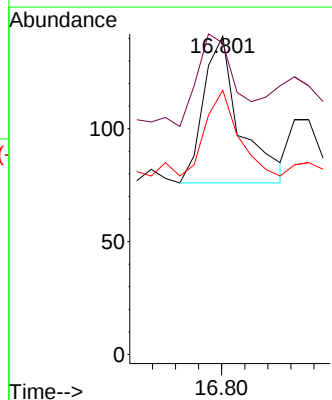
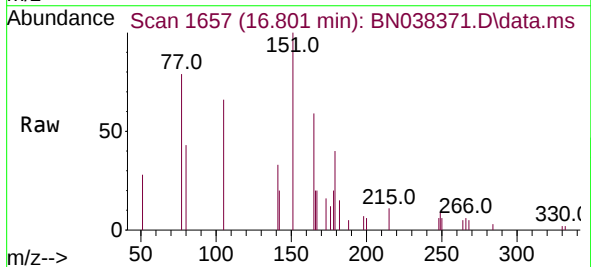
Instrument :
BNA_N
ClientSampleId :
COAN7

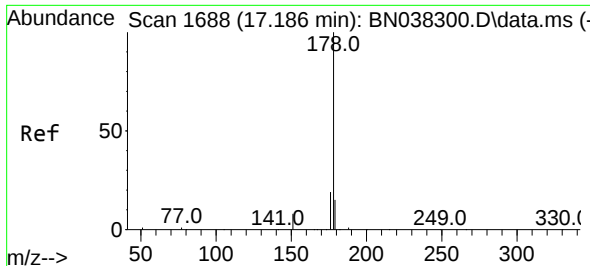
Tgt Ion:188 Resp: 15978
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 26.1 7.4 11.0#



#24
Pentachlorophenol
Concen: 0.026 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion:266 Resp: 142
Ion Ratio Lower Upper
266 100
264 183.8 50.2 75.2#
268 57.0 52.6 78.8

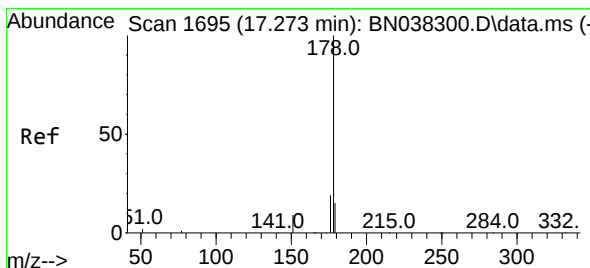
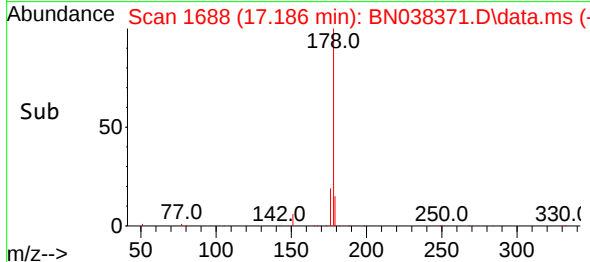
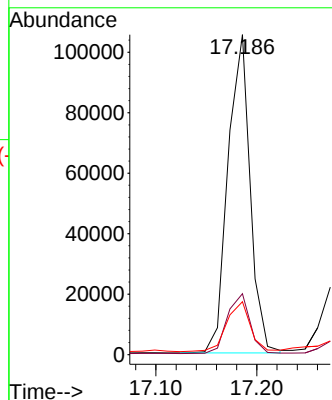
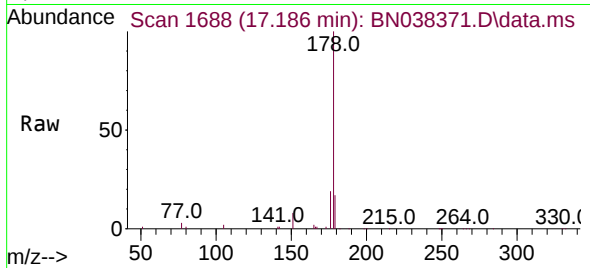




#25
Phenanthrene
Concen: 2.884 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

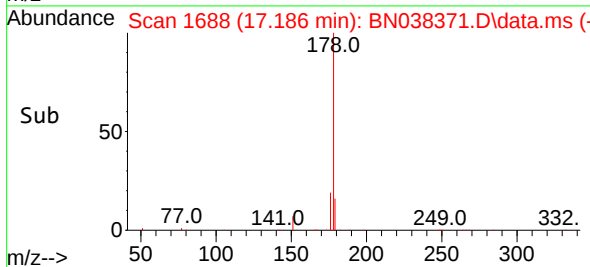
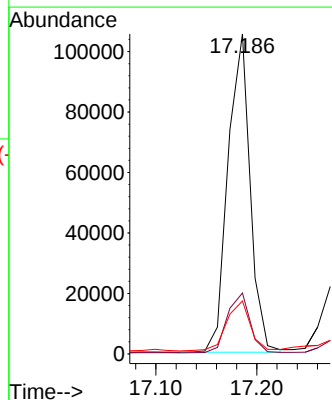
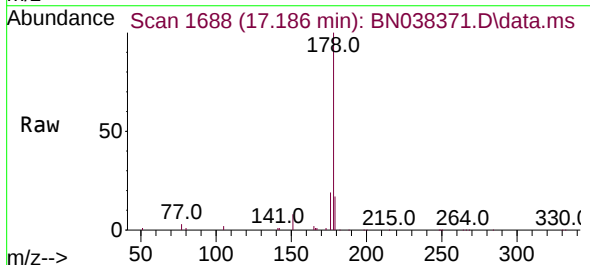
Instrument :
BNA_N
ClientSampleId :
COAN7

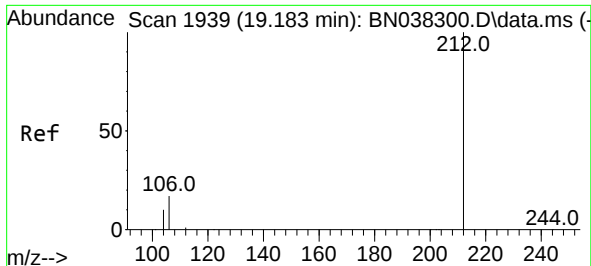
Tgt Ion:178 Resp: 160406
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 16.9 12.2 18.2



#26
Anthracene
Concen: 3.345 ng
RT: 17.186 min Scan# 1688
Delta R.T. -0.099 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion:178 Resp: 160406
Ion Ratio Lower Upper
178 100
176 19.3 15.1 22.7
179 16.9 12.0 18.0

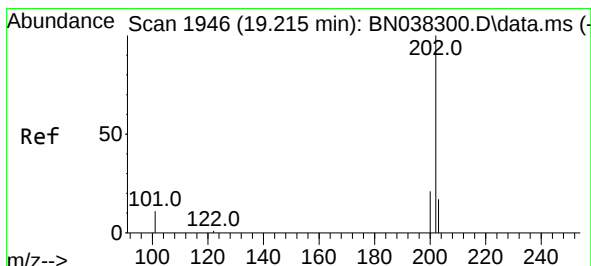
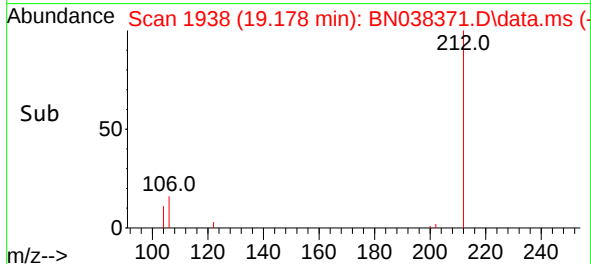
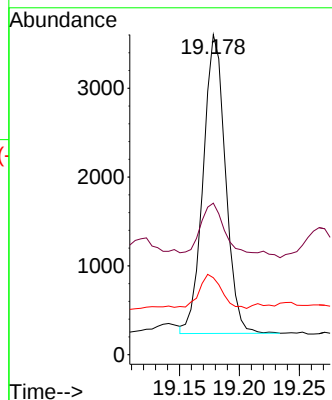
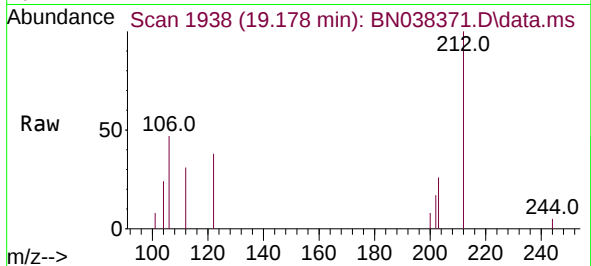




#27
Fluoranthene-d10
Concen: 0.110 ng
RT: 19.178 min Scan# 1938
Delta R.T. -0.009 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

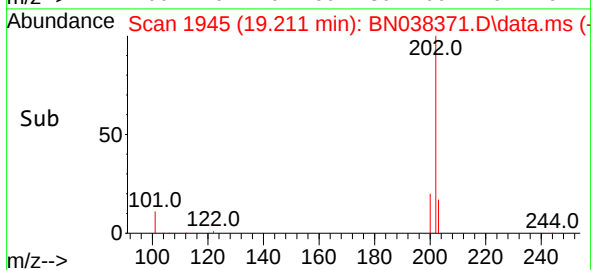
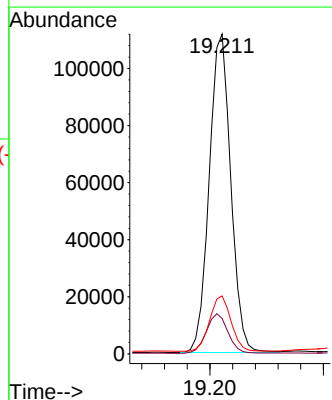
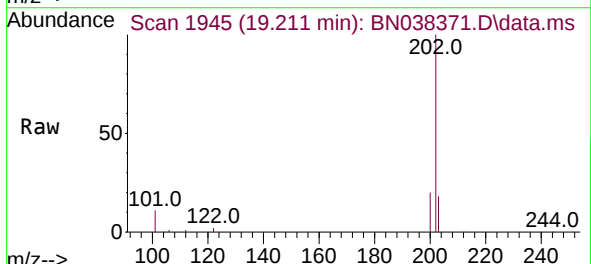
Instrument :
BNA_N
ClientSampleId :
C0AN7

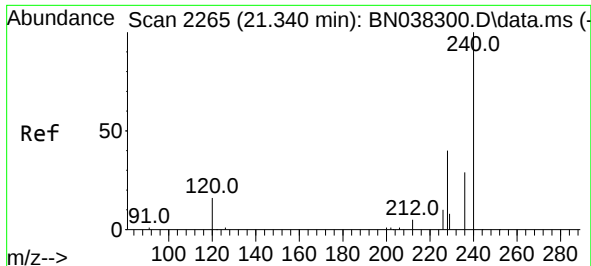
Tgt Ion:212 Resp: 4355
Ion Ratio Lower Upper
212 100
106 22.2 13.7 20.5#
104 11.3 7.8 11.8



#28
Fluoranthene
Concen: 2.505 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.009 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Tgt Ion:202 Resp: 148059
Ion Ratio Lower Upper
202 100
101 12.4 9.6 14.4
203 17.2 13.5 20.3

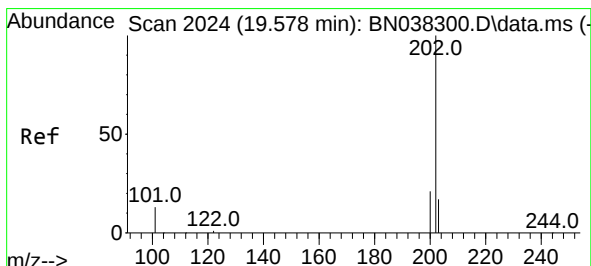
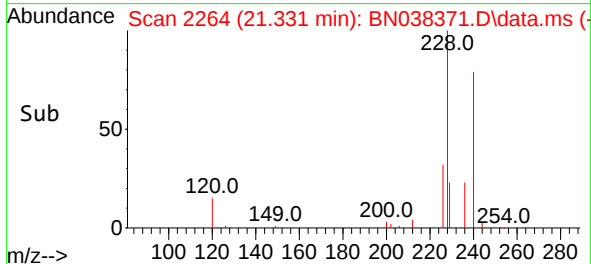
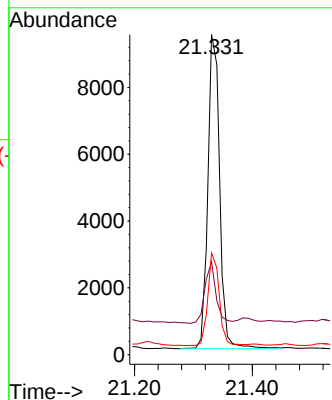
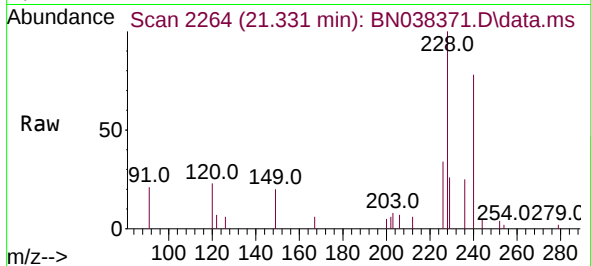




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

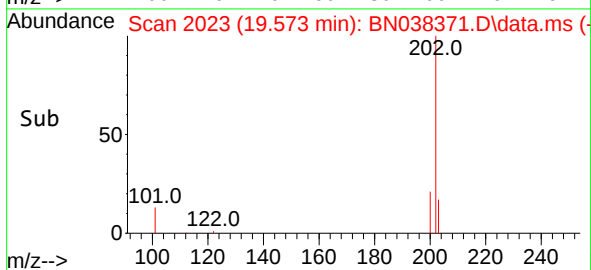
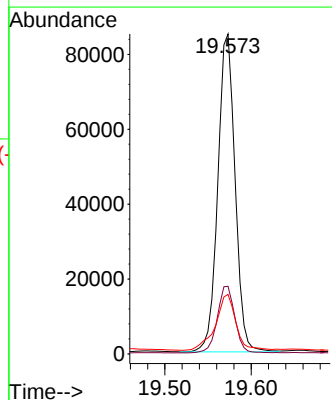
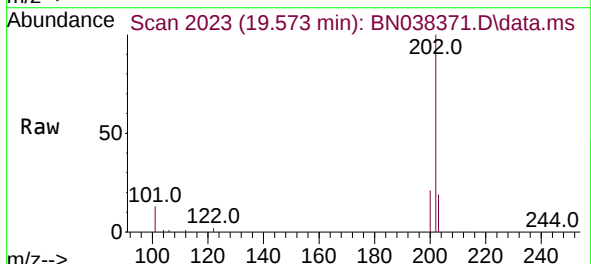
Instrument :
BNA_N
ClientSampleId :
C0AN7

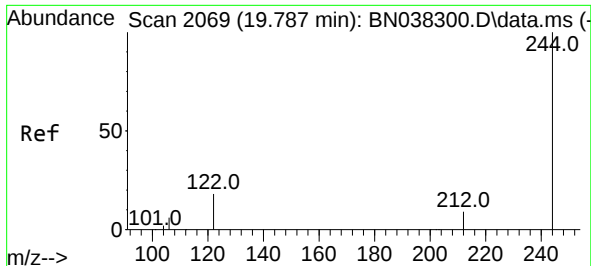
Tgt Ion:240 Resp: 13134
Ion Ratio Lower Upper
240 100
120 29.0 15.4 23.2#
236 31.8 23.9 35.9



#30
Pyrene
Concen: 1.818 ng
RT: 19.573 min Scan# 2023
Delta R.T. -0.009 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

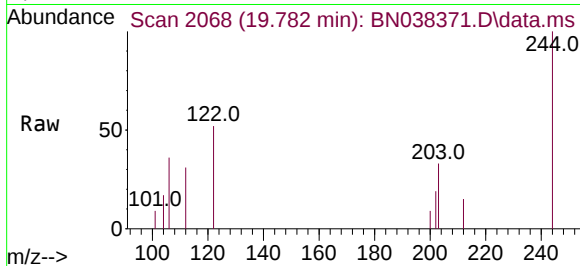
Tgt Ion:202 Resp: 117521
Ion Ratio Lower Upper
202 100
200 21.3 16.9 25.3
203 20.6 14.2 21.2



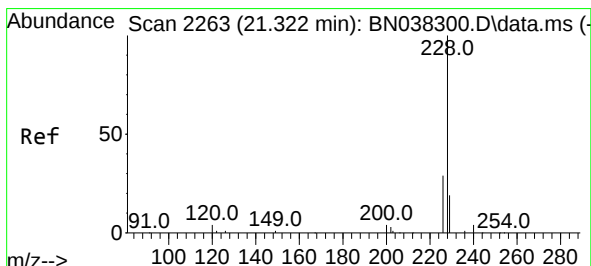
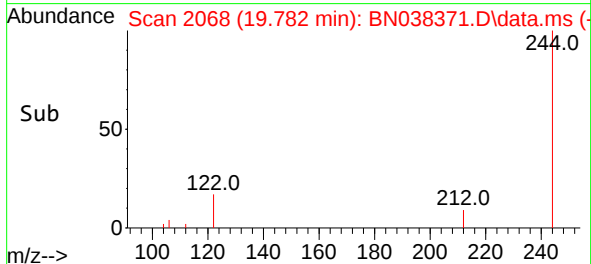
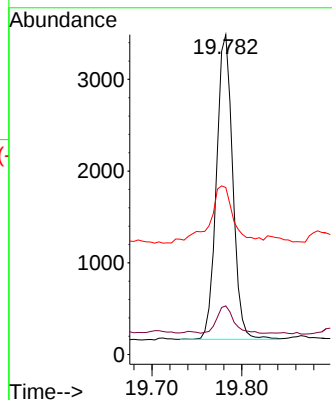


#31
 Terphenyl-d14
 Concen: 0.143 ng
 RT: 19.782 min Scan# 2068
 Delta R.T. -0.009 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16

Instrument :
 BNA_N
 ClientSampleId :
 COAN7

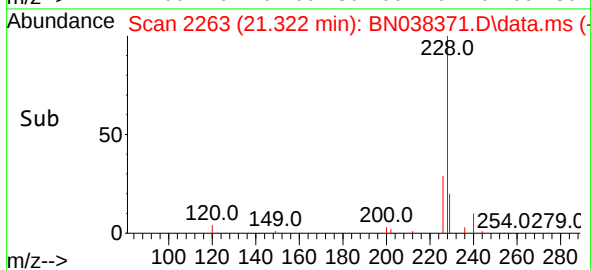
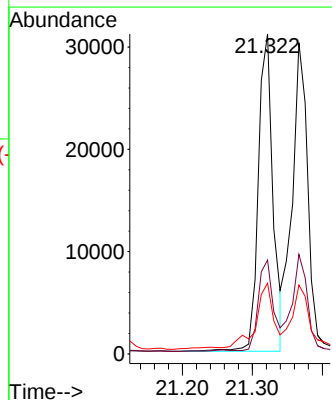
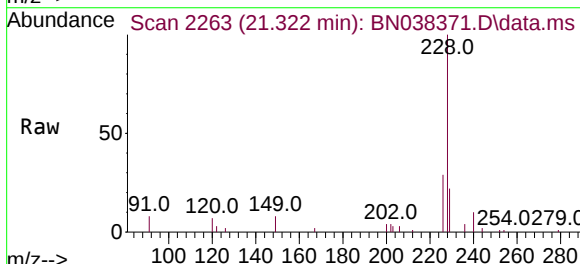


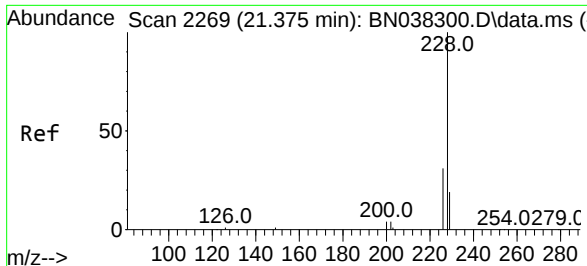
Tgt Ion:244 Resp: 4178
 Ion Ratio Lower Upper
 244 100
 212 15.2 7.9 11.9#
 122 52.2 15.0 22.6#



#32
 Benzo(a)anthracene
 Concen: 0.894 ng
 RT: 21.322 min Scan# 2263
 Delta R.T. -0.009 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16

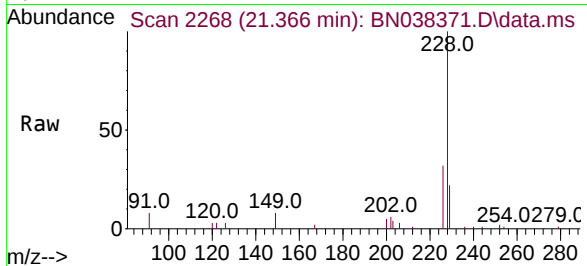
Tgt Ion:228 Resp: 45371
 Ion Ratio Lower Upper
 228 100
 226 29.3 23.3 34.9
 229 22.1 15.7 23.5



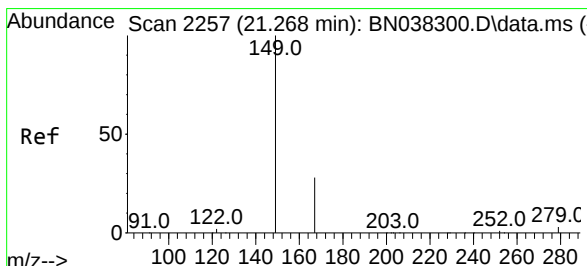
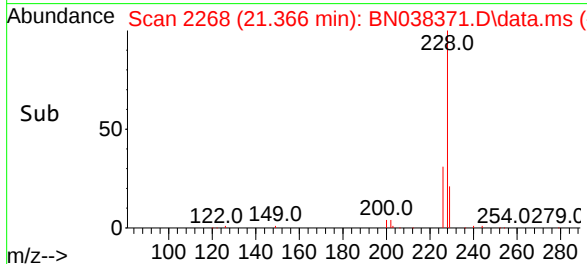
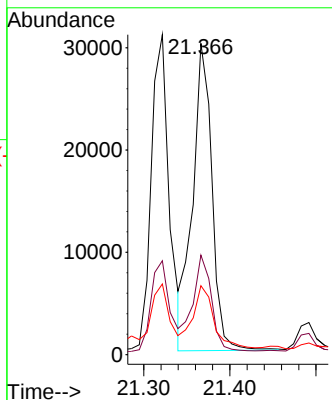


#33
Chrysene
Concen: 0.838 ng
RT: 21.366 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

Instrument :
BNA_N
ClientSampleId :
COAN7

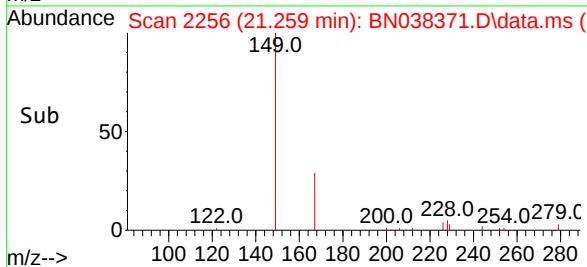
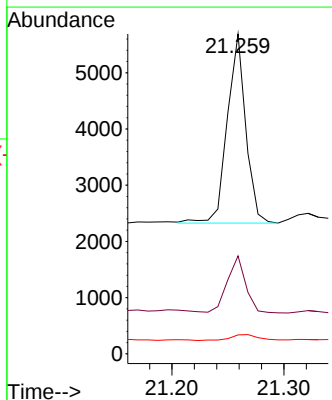
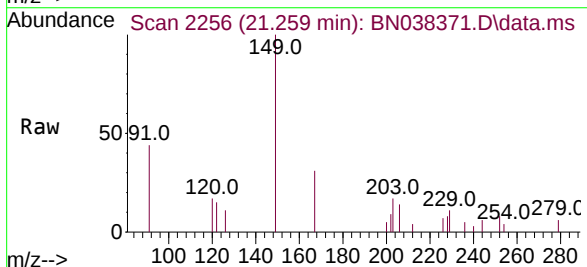


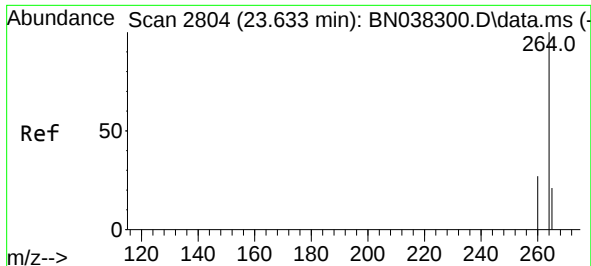
Tgt Ion:228 Resp: 46804
Ion Ratio Lower Upper
228 100
226 31.9 25.0 37.4
229 22.1 15.5 23.3



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.139 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.009 min
Lab File: BN038371.D
Acq: 13 Dec 2025 04:16

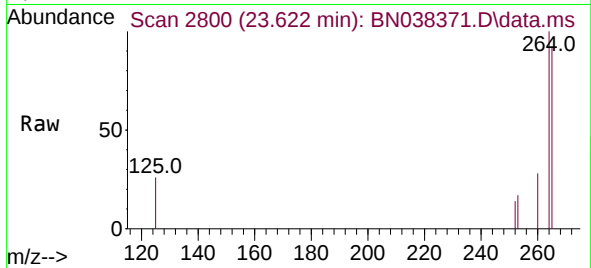
Tgt Ion:149 Resp: 3858
Ion Ratio Lower Upper
149 100
167 29.8 21.4 32.0
279 4.6 2.4 3.6#



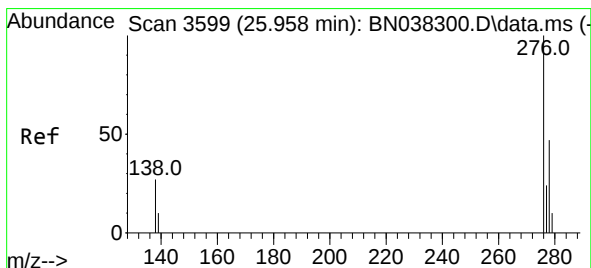
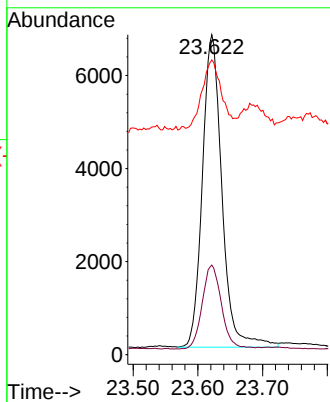
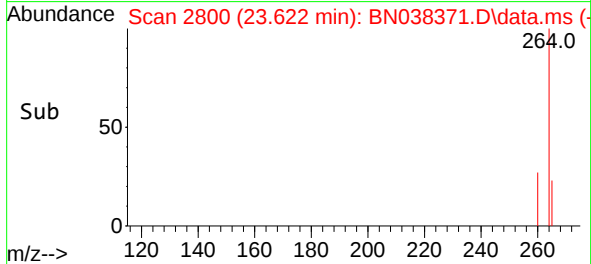


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.622 min Scan# 2800
 Delta R.T. -0.012 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16

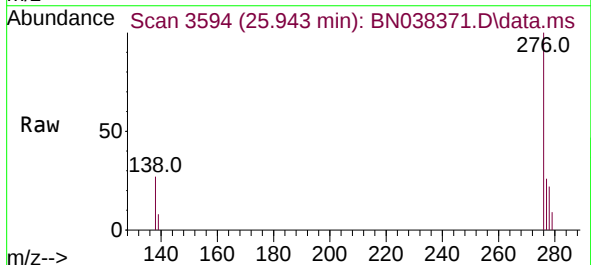
Instrument :
 BNA_N
 ClientSampleId :
 C0AN7



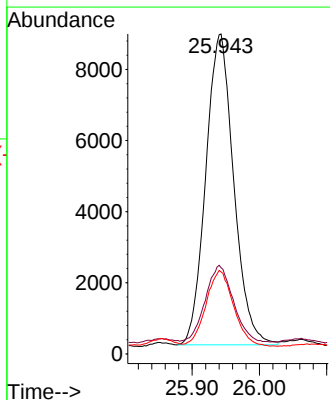
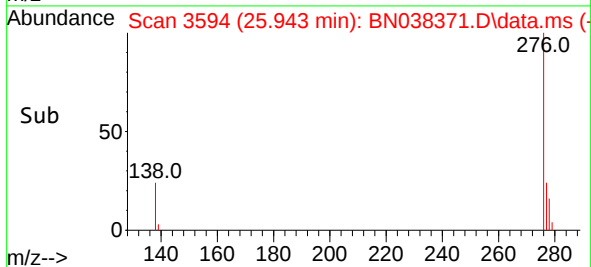
Tgt Ion:264 Resp: 14100
 Ion Ratio Lower Upper
 264 100
 260 28.0 22.2 33.2
 265 92.1 80.2 120.2

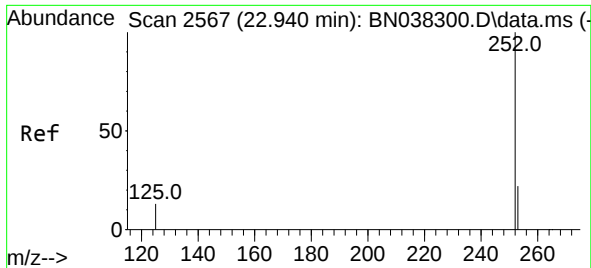


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.338 ng
 RT: 25.943 min Scan# 3594
 Delta R.T. -0.020 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16



Tgt Ion:276 Resp: 25270
 Ion Ratio Lower Upper
 276 100
 138 25.6 23.6 35.4
 277 24.0 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.868 ng

RT: 22.932 min Scan# 2564

Delta R.T. -0.015 min

Lab File: BN038371.D

Acq: 13 Dec 2025 04:16

Instrument :

BN038371.D

ClientSampleId :

COAN7

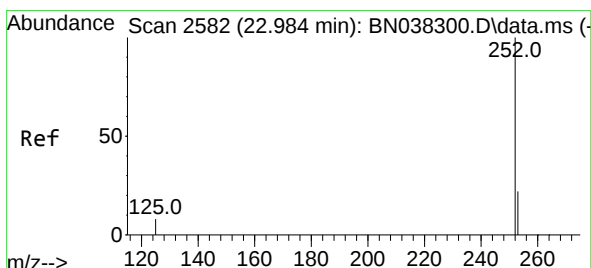
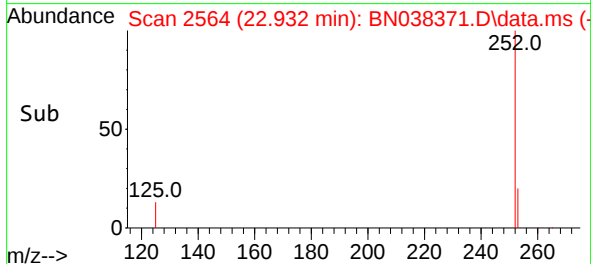
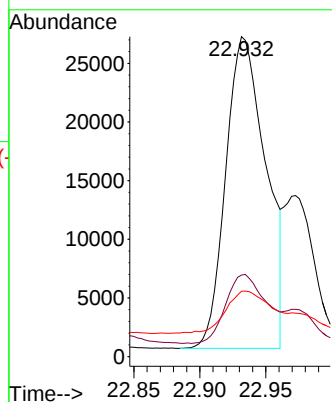
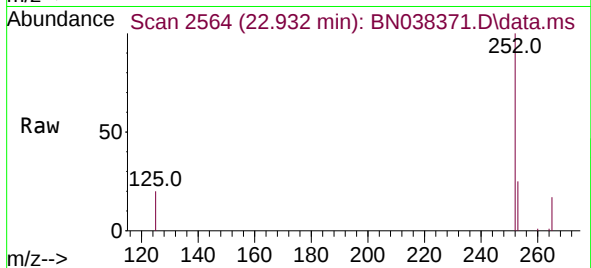
Tgt Ion:252 Resp: 56231

Ion Ratio Lower Upper

252 100

253 25.5 21.1 31.7

125 20.4 16.4 24.6



#38

Benzo(k)fluoranthene

Concen: 0.871 ng

RT: 22.932 min Scan# 2564

Delta R.T. -0.058 min

Lab File: BN038371.D

Acq: 13 Dec 2025 04:16

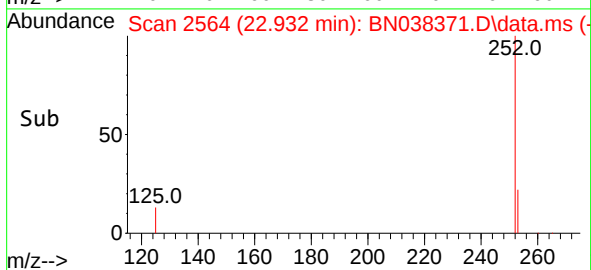
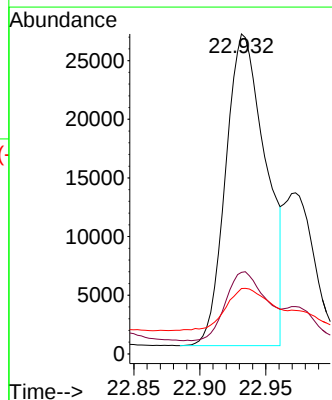
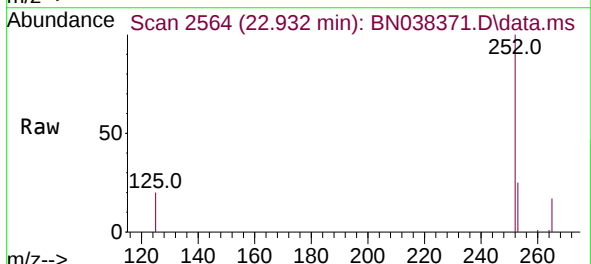
Tgt Ion:252 Resp: 56231

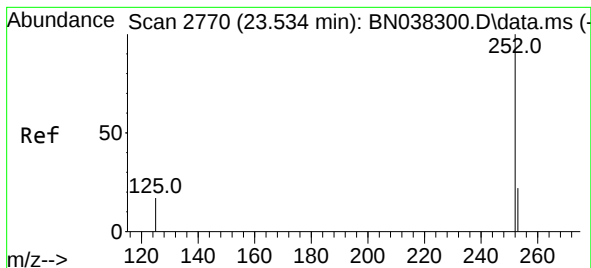
Ion Ratio Lower Upper

252 100

253 25.5 21.4 32.0

125 20.4 16.2 24.2





#39

Benzo(a)pyrene

Concen: 0.728 ng

RT: 23.519 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN038371.D

Acq: 13 Dec 2025 04:16

Instrument :

BNA_N

ClientSampleId :

COAN7

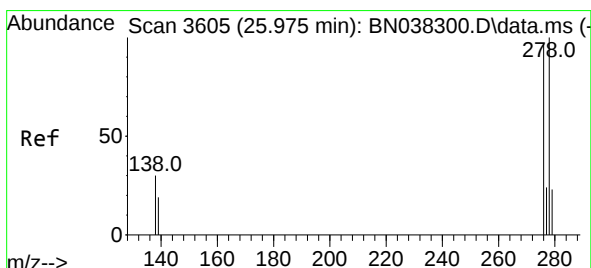
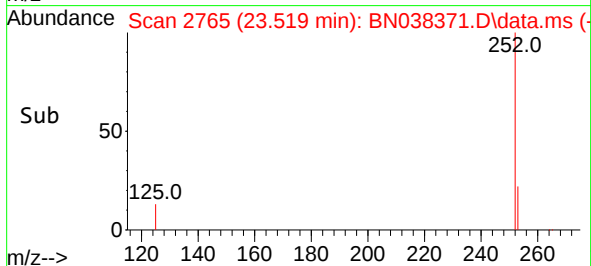
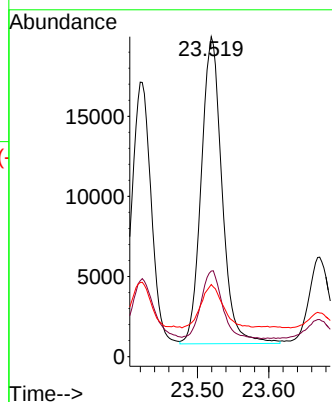
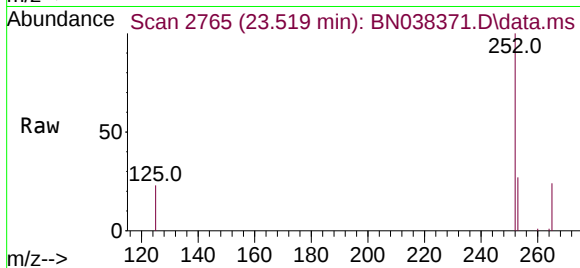
Tgt Ion:252 Resp: 38605

Ion Ratio Lower Upper

252 100

253 26.7 23.3 34.9

125 22.5 22.4 33.6



#40

Dibenzo(a,h)anthracene

Concen: 0.105 ng

RT: 25.946 min Scan# 3595

Delta R.T. -0.035 min

Lab File: BN038371.D

Acq: 13 Dec 2025 04:16

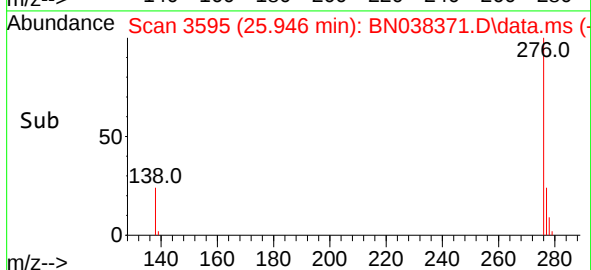
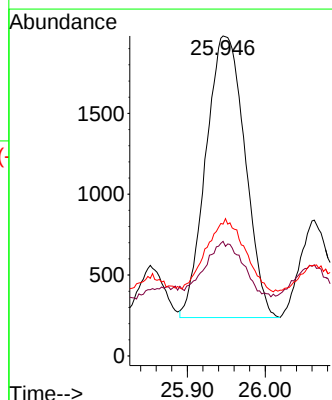
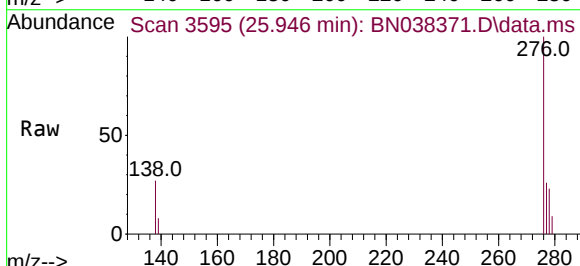
Tgt Ion:278 Resp: 6056

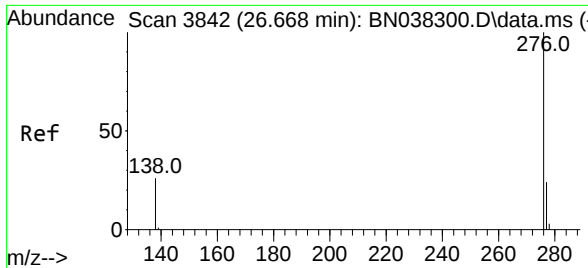
Ion Ratio Lower Upper

278 100

139 35.8 17.8 26.8#

279 41.2 21.3 31.9#





#41
 Benzo(g,h,i)perylene
 Concen: 0.440 ng
 RT: 26.648 min Scan# 3842
 Delta R.T. -0.029 min
 Lab File: BN038371.D
 Acq: 13 Dec 2025 04:16

Instrument :
 BNA_N
 ClientSampleId :
 C0AN7

Tgt Ion:	276	Resp:	28397
Ion Ratio	Lower	Upper	
276	100		
277	25.3	20.0	30.0
138	27.8	21.8	32.6

