

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091025\
 Data File : BN037684.D
 Acq On : 10 Sep 2025 15:22
 Operator : RC/JU
 Sample : Q2893-08
 Misc : LOQ-WATER 0.1 ng
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2025

Quant Time: Sep 10 16:28:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN090925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 10 02:02:04 2025
 Response via : Initial Calibration

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

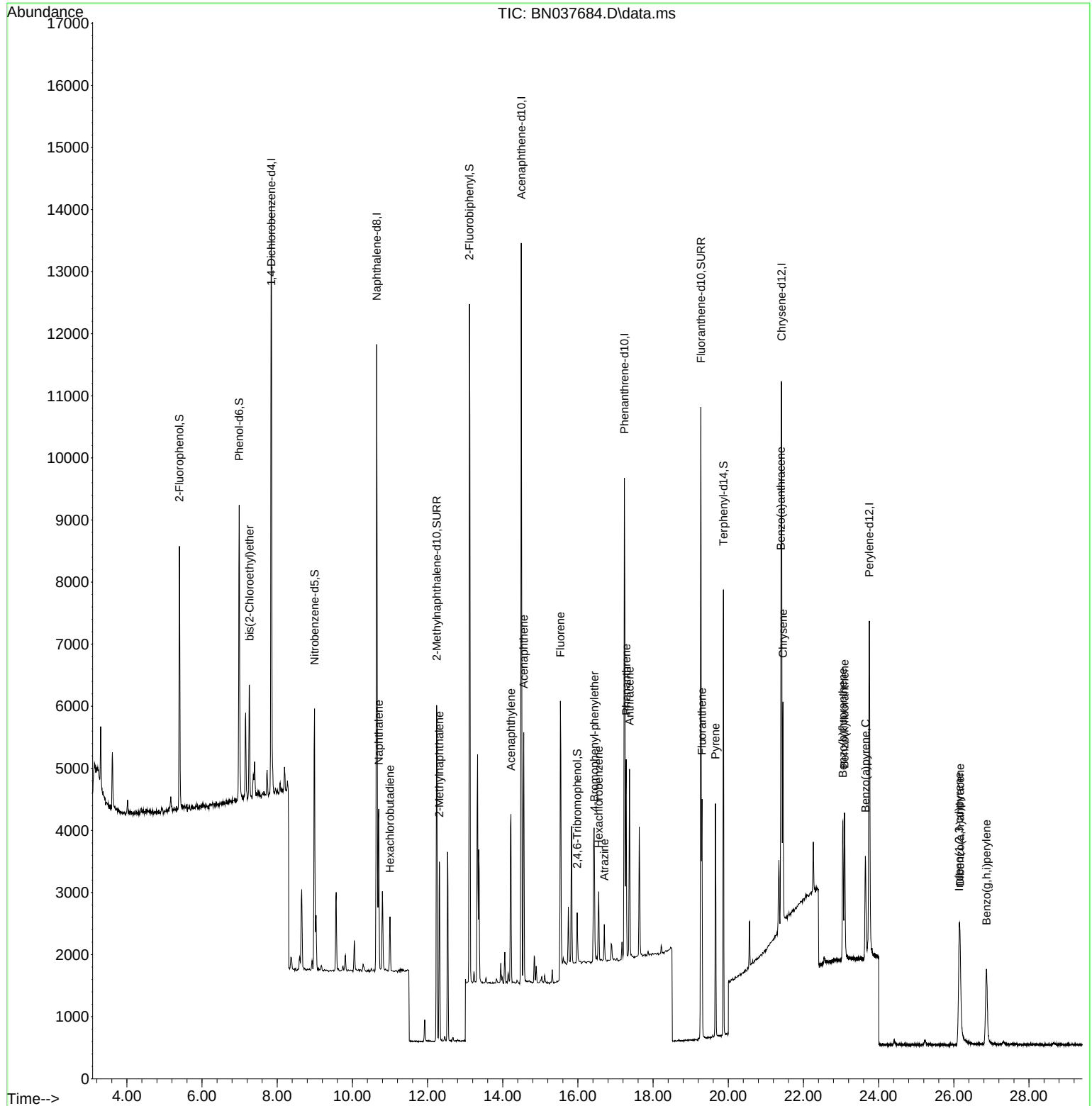
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	4727	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	12821	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6183	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	10649	0.400	ng	#-0.01
29) Chrysene-d12	21.420	240	7722	0.400	ng	0.00
35) Perylene-d12	23.753	264	7836	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	3462	0.286	ng	0.00
5) Phenol-d6	6.988	99	4408	0.290	ng	0.00
8) Nitrobenzene-d5	8.993	82	3270	0.414	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	7124	0.395	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	469	0.273	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	9535	0.392	ng	-0.01
27) Fluoranthene-d10	19.271	212	10802	0.393	ng	0.00
31) Terphenyl-d14	19.870	244	6862	0.421	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.262	93	1398	0.109	ng	100
9) Naphthalene	10.701	128	3600	0.104	ng	96
10) Hexachlorobutadiene	11.000	225	678	0.110	ng	# 99
12) 2-Methylnaphthalene	12.314	142	2065	0.092	ng	97
16) Acenaphthylene	14.217	152	3153	0.109	ng	99
17) Acenaphthene	14.559	154	1883	0.102	ng	95
18) Fluorene	15.535	166	2230	0.098	ng	98
21) 4-Bromophenyl-phenylether	16.441	248	722	0.103	ng	96
22) Hexachlorobenzene	16.553	284	883	0.120	ng	98
23) Atrazine	16.702	200	445	0.102	ng	# 88
25) Phenanthrene	17.285	178	3553	0.109	ng	99
26) Anthracene	17.372	178	3064	0.101	ng	99
28) Fluoranthene	19.299	202	3432	0.094	ng	99
30) Pyrene	19.661	202	3304	0.107	ng	99
32) Benzo(a)anthracene	21.402	228	2844	0.103	ng	97
33) Chrysene	21.456	228	3046	0.109	ng	98
36) Indeno(1,2,3-cd)pyrene	26.142	276	3214	0.108	ng	97
37) Benzo(b)fluoranthene	23.046	252	3068	0.106	ng	# 77
38) Benzo(k)fluoranthene	23.092	252	2994	0.105	ng	# 73
39) Benzo(a)pyrene	23.648	252	2639	0.110	ng	# 70
40) Dibenzo(a,h)anthracene	26.165	278	2397	0.107	ng	# 71
41) Benzo(g,h,i)perylene	26.867	276	2893	0.107	ng	# 86

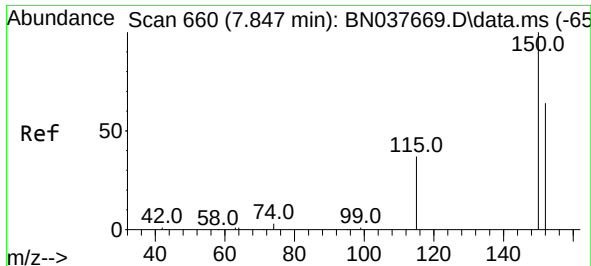
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091025\
Data File : BN037684.D
Acq On : 10 Sep 2025 15:22
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Sample : Q2893-08
Misc : LOQ-WATER 0.1 ng
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Instrument :
BNA_N
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LOQ-WATER-02-QT3-2025

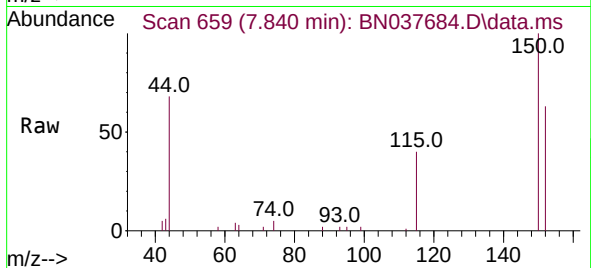
Quant Time: Sep 10 16:28:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN090925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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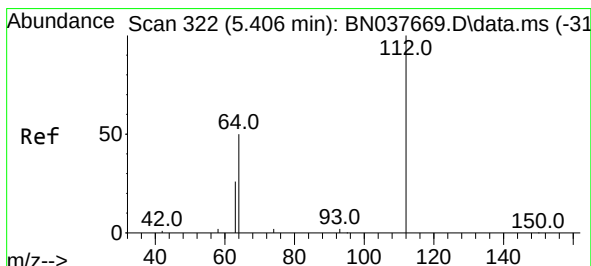
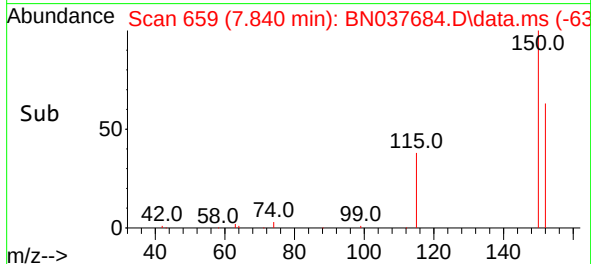
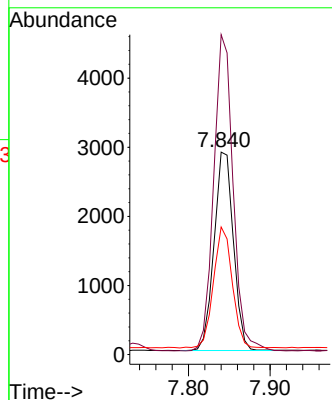


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

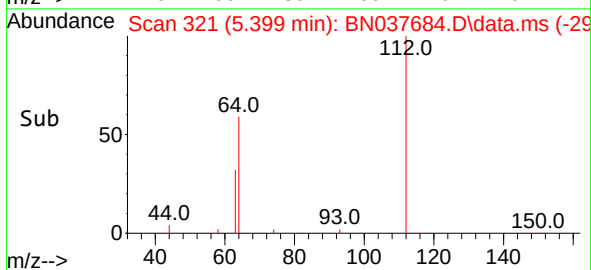
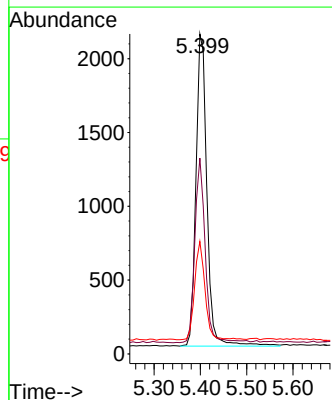
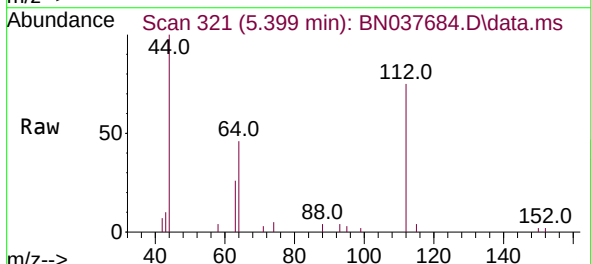


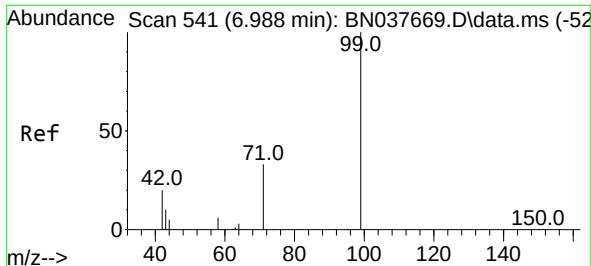
Tgt Ion:152 Resp: 4727
Ion Ratio Lower Upper
152 100
150 158.0 123.2 184.8
115 63.0 49.0 73.4



#4
2-Fluorophenol
Concen: 0.286 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.007 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion:112 Resp: 3462
Ion Ratio Lower Upper
112 100
64 56.7 45.4 68.2
63 29.4 23.7 35.5

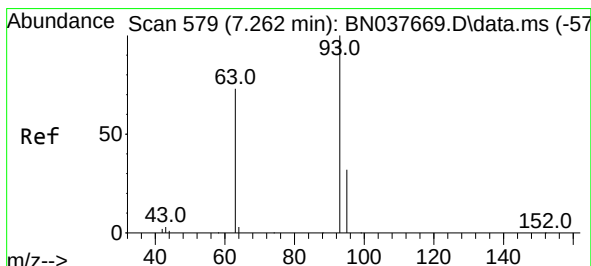
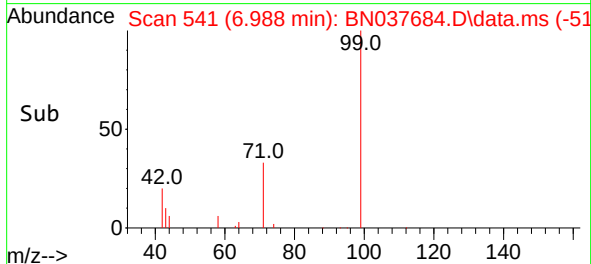
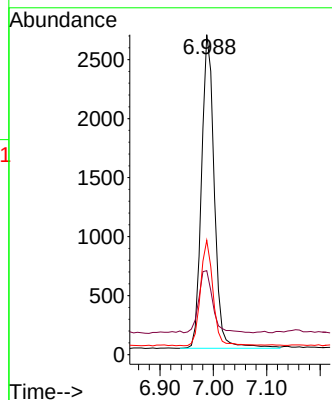
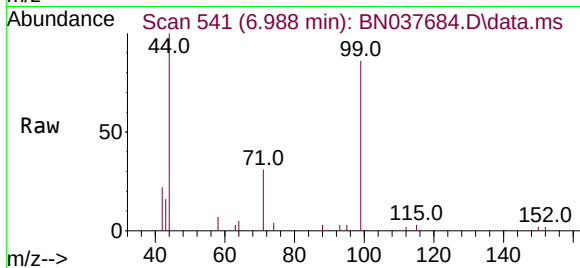




#5
Phenol-d6
Concen: 0.290 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

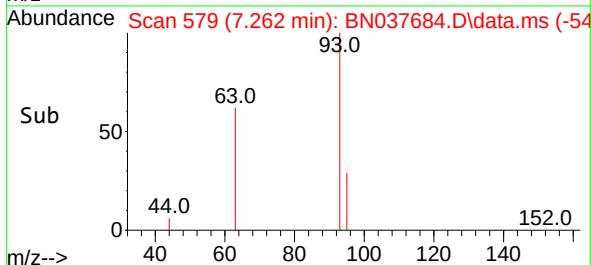
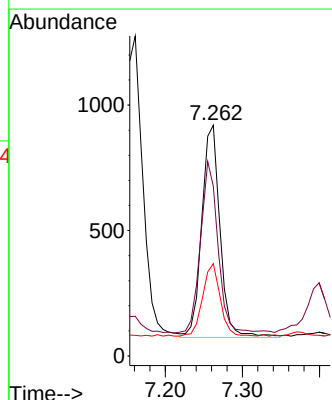
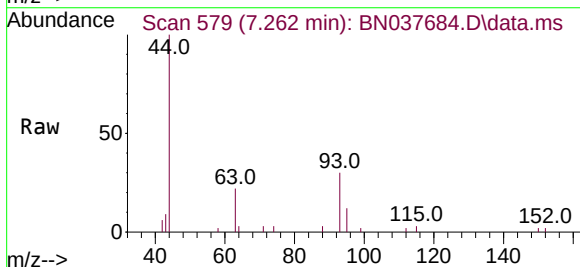
Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

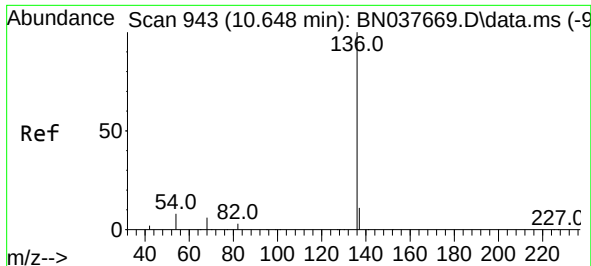
Tgt Ion: 99 Resp: 4408
Ion Ratio Lower Upper
99 100
42 21.9 17.7 26.5
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.109 ng
RT: 7.262 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion: 93 Resp: 1398
Ion Ratio Lower Upper
93 100
63 77.4 62.1 93.1
95 32.5 26.0 39.0

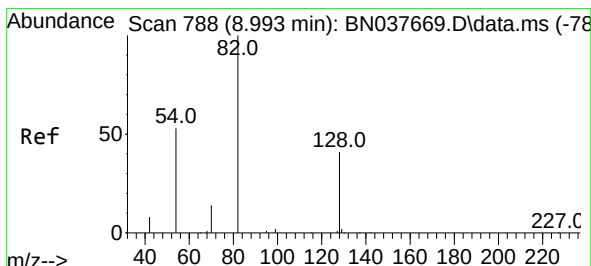
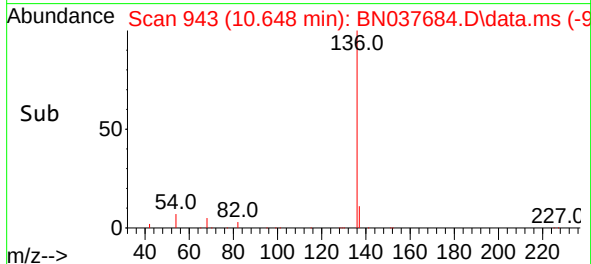
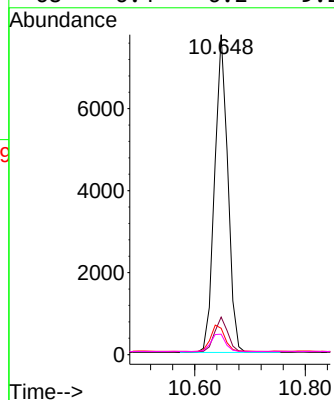
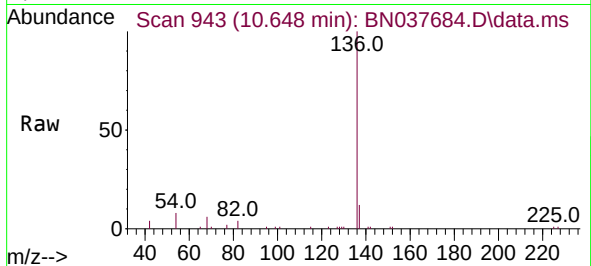




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

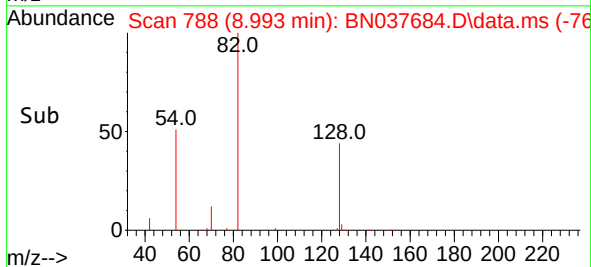
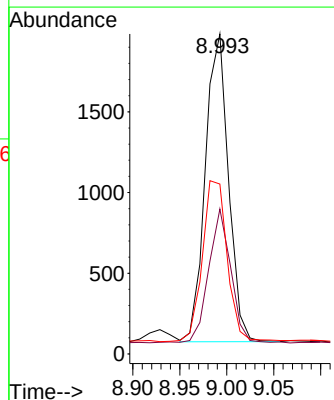
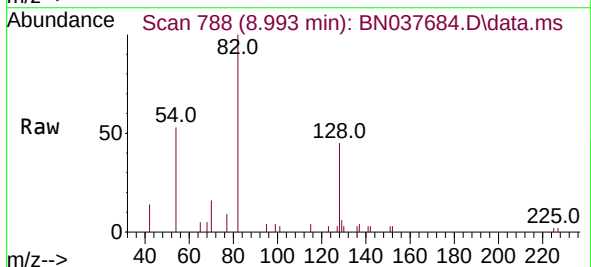
Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

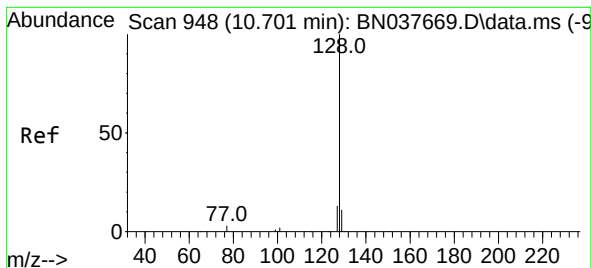
Tgt Ion:	136	Resp:	12821
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.3	13.9
54	8.2	8.1	12.1
68	6.4	6.2	9.2



#8
Nitrobenzene-d5
Concen: 0.414 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion:	82	Resp:	3270
Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.3	51.5
54	53.1	45.5	68.3





#9

Naphthalene

Concen: 0.104 ng

RT: 10.701 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

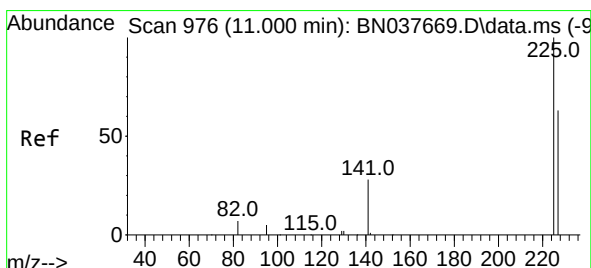
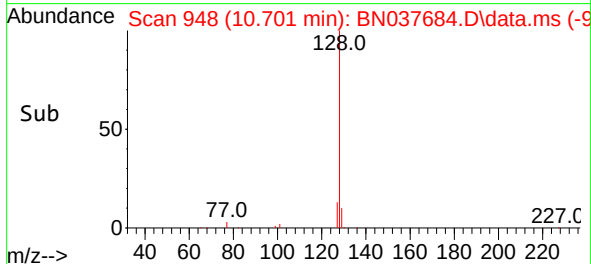
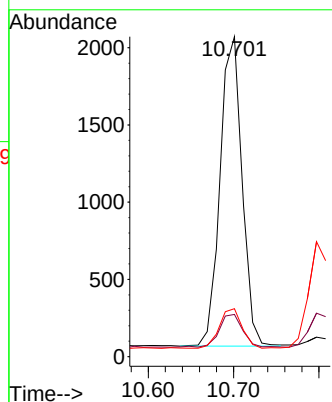
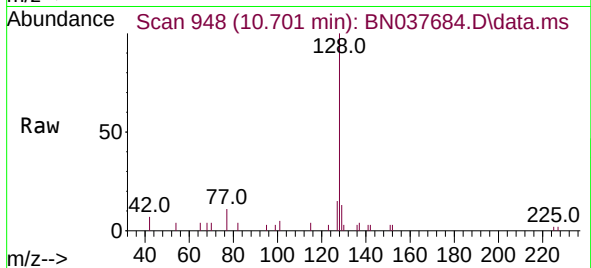
Instrument :

BNA_N

ClientSampleId :

LOQ-WATER-02-QT3-2025

Tgt Ion:	128	Resp:	3600
Ion Ratio	Lower	Upper	
128	100		
129	13.2	9.3	13.9
127	15.0	10.7	16.1



#10

Hexachlorobutadiene

Concen: 0.110 ng

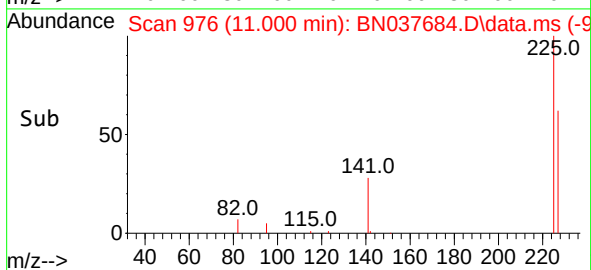
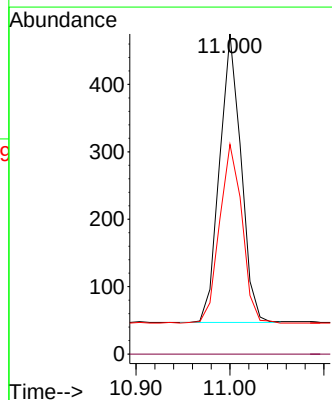
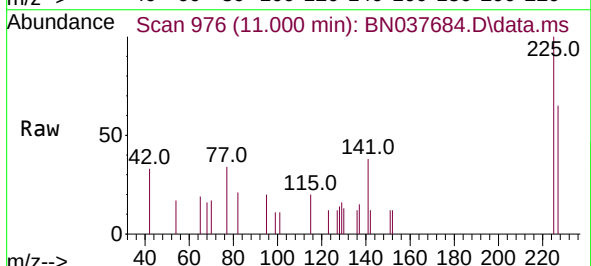
RT: 11.000 min Scan# 976

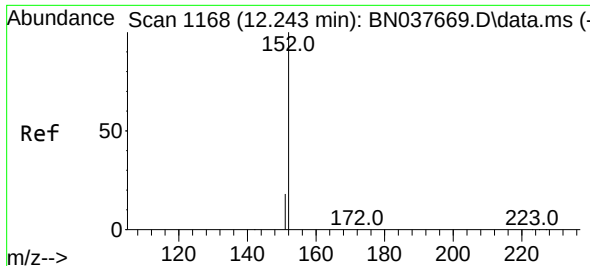
Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

Tgt Ion:	225	Resp:	678
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	65.0	51.7	77.5

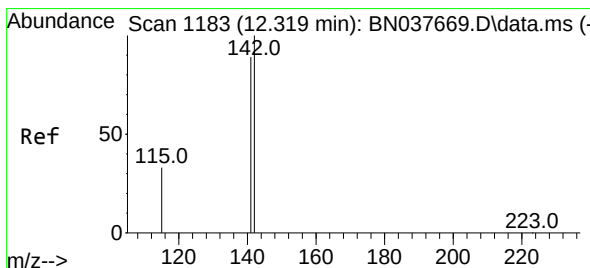
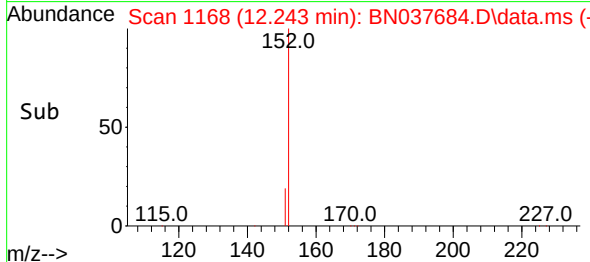
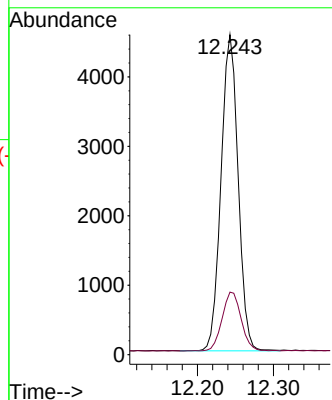
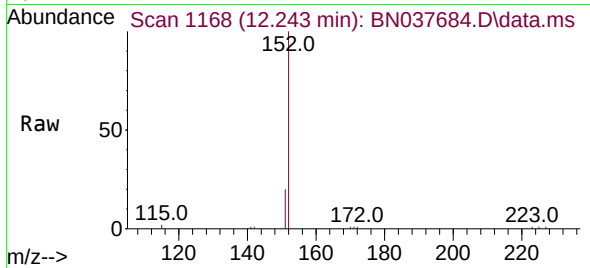




#11
2-Methylnaphthalene-d10
Concen: 0.395 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

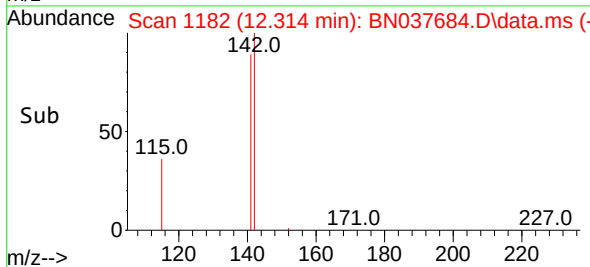
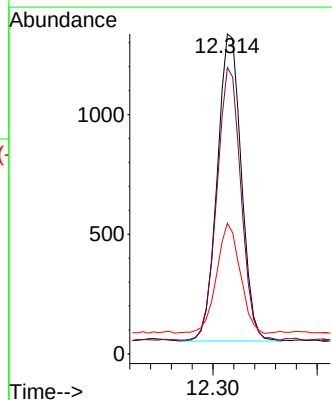
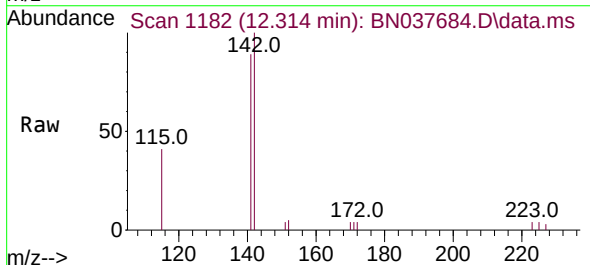
Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

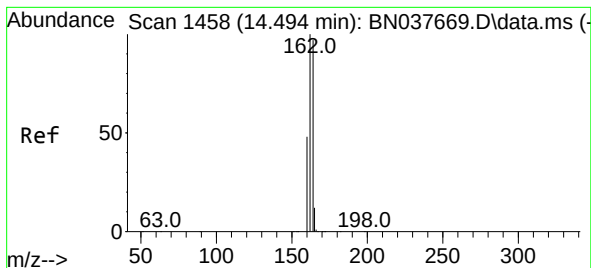
Tgt Ion:152 Resp: 7124
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.092 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.005 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion:142 Resp: 2065
Ion Ratio Lower Upper
142 100
141 89.5 71.5 107.3
115 40.8 28.0 42.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.494 min Scan# 1458

Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

Instrument :

BNA_N

ClientSampleId :

LOQ-WATER-02-QT3-2025

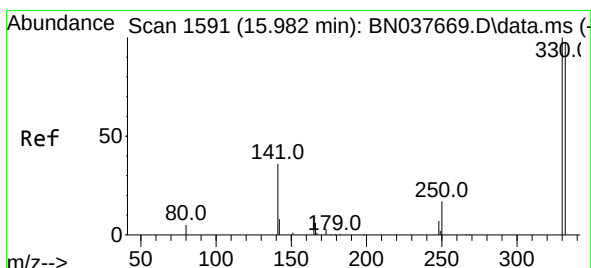
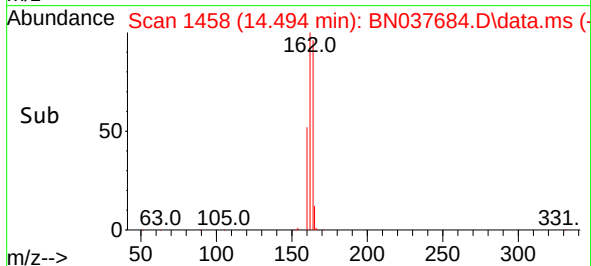
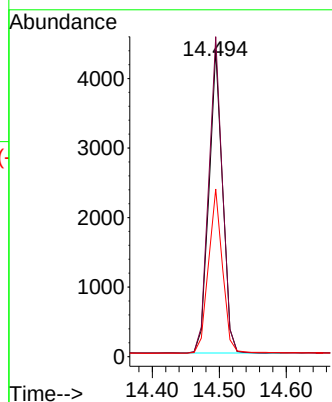
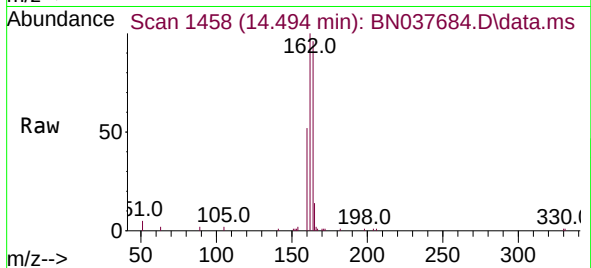
Tgt Ion:164 Resp: 6183

Ion Ratio Lower Upper

164 100

162 104.4 82.6 123.8

160 54.7 39.7 59.5



#14

2,4,6-Tribromophenol

Concen: 0.273 ng

RT: 15.982 min Scan# 1591

Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

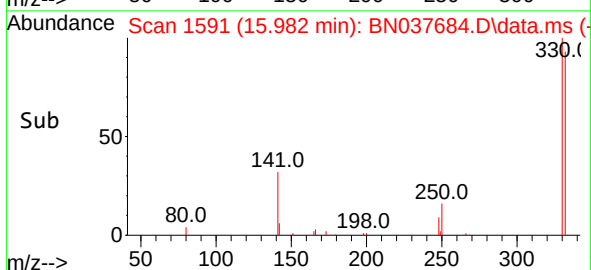
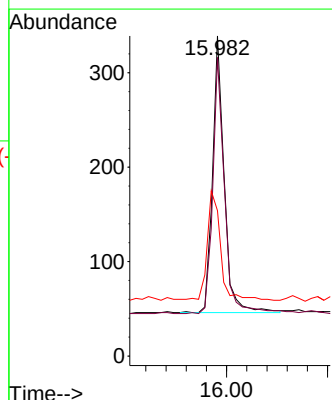
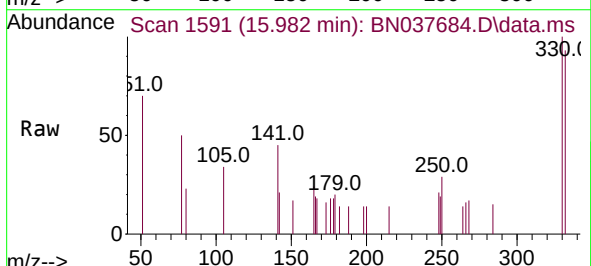
Tgt Ion:330 Resp: 469

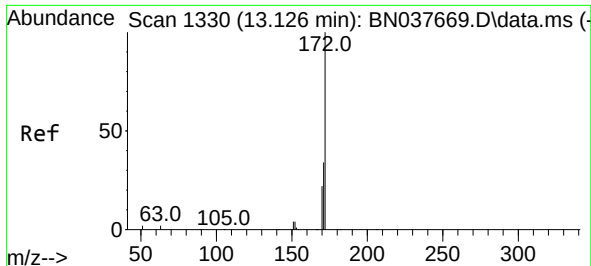
Ion Ratio Lower Upper

330 100

332 93.6 78.8 118.2

141 44.8 37.8 56.6

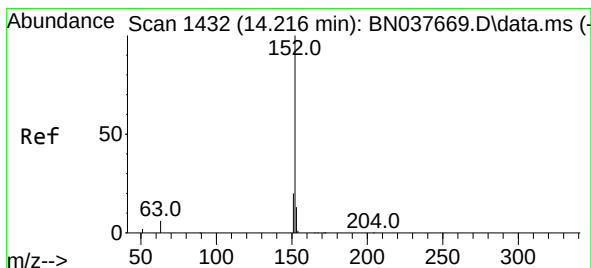
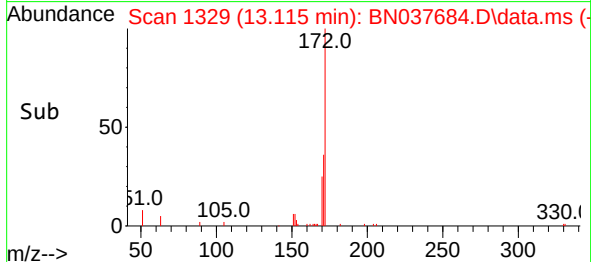
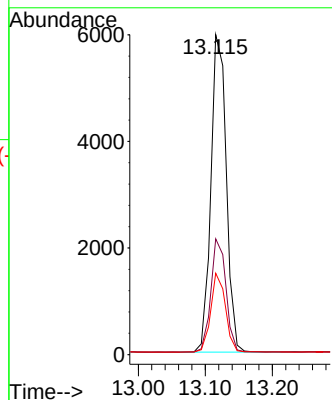
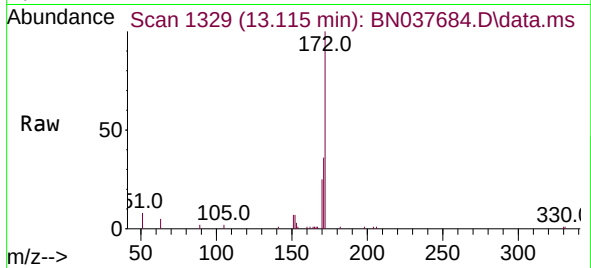




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 13.115 min Scan# 1330
Delta R.T. -0.011 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

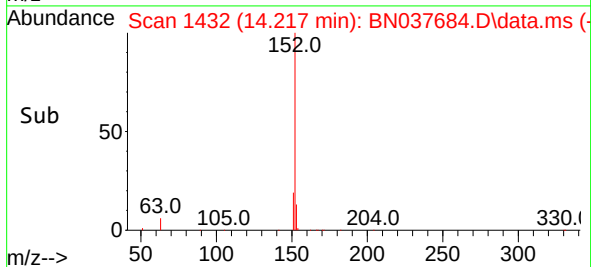
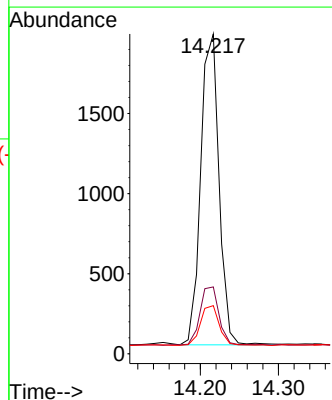
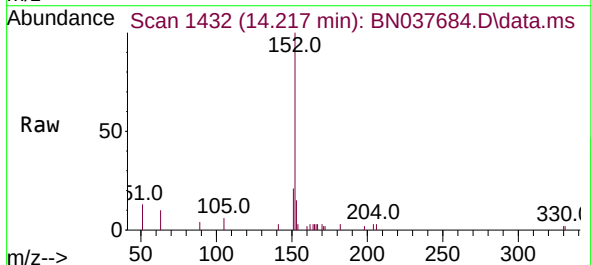
Instrument : BNA_N
ClientSampleId : LOQ-WATER-02-QT3-2025

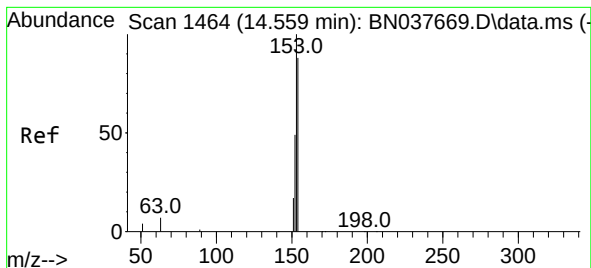
Tgt Ion:	172	Resp:	9535
Ion Ratio	Lower	Upper	
172	100		
171	36.2	27.8	41.8
170	25.4	18.4	27.6



#16
Acenaphthylene
Concen: 0.109 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion:	152	Resp:	3153
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.0	24.0
153	13.3	10.4	15.6





#17

Acenaphthene

Concen: 0.102 ng

RT: 14.559 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

Instrument :

BNA_N

ClientSampleId :

LOQ-WATER-02-QT3-2025

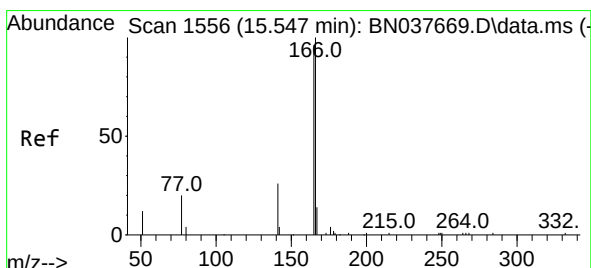
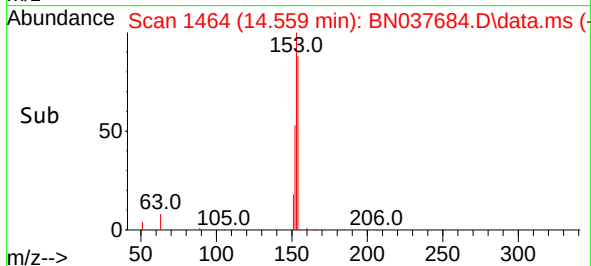
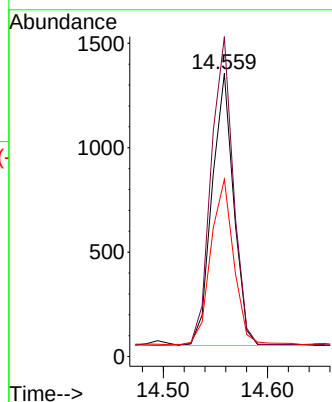
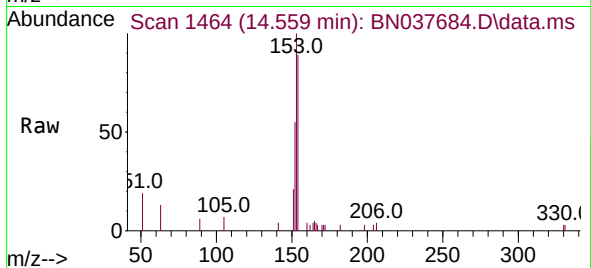
Tgt Ion:154 Resp: 1883

Ion Ratio Lower Upper

154 100

153 116.4 90.7 136.1

152 64.5 46.4 69.6



#18

Fluorene

Concen: 0.098 ng

RT: 15.535 min Scan# 1555

Delta R.T. -0.012 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

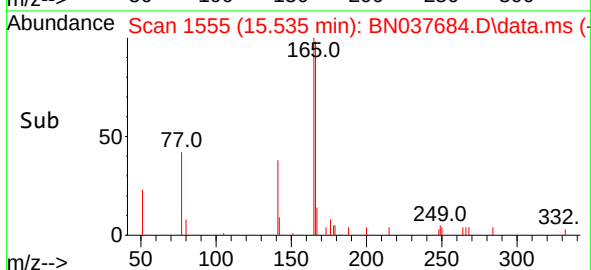
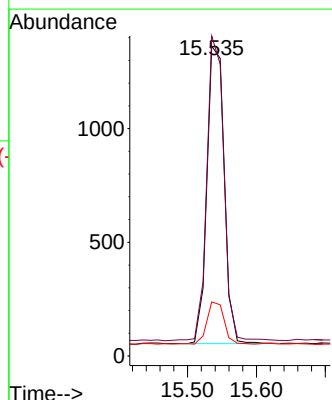
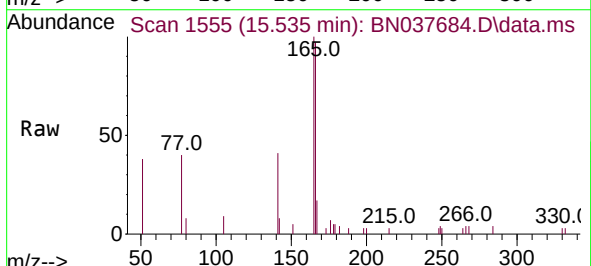
Tgt Ion:166 Resp: 2230

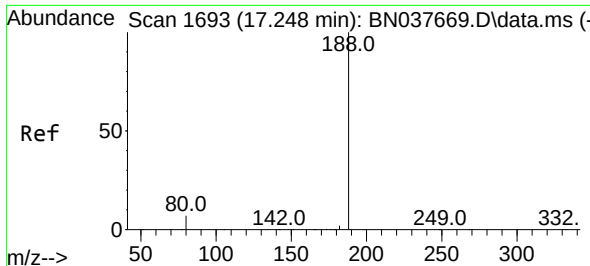
Ion Ratio Lower Upper

166 100

165 98.5 77.4 116.0

167 13.7 10.6 15.8

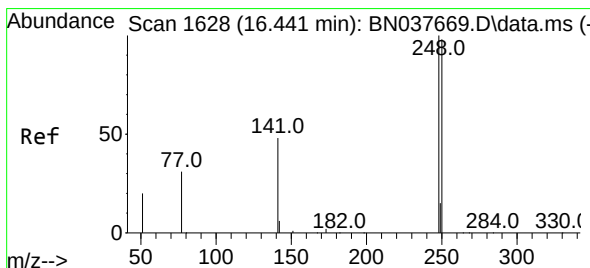
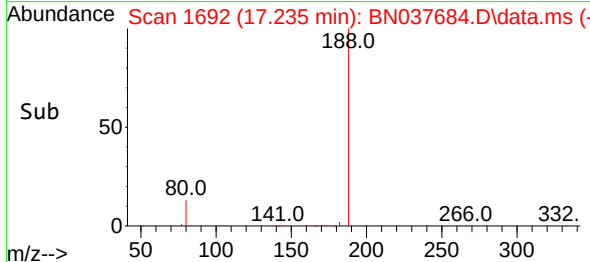
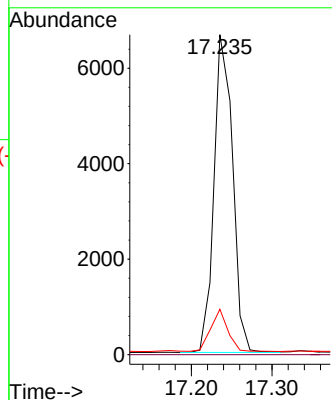
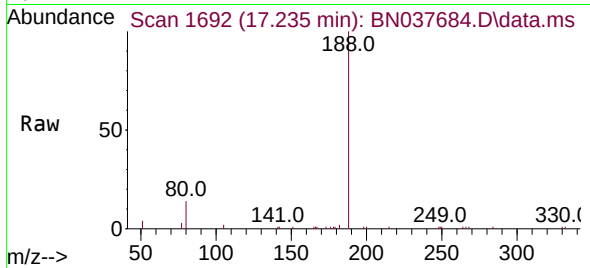




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

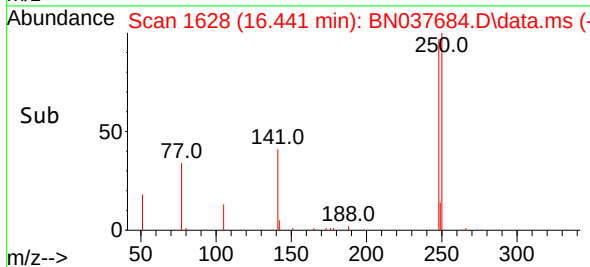
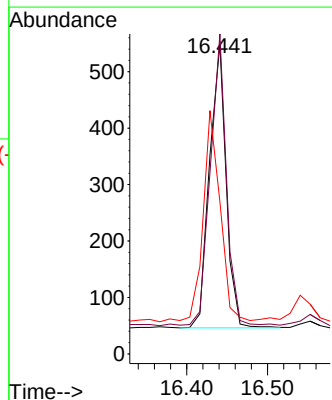
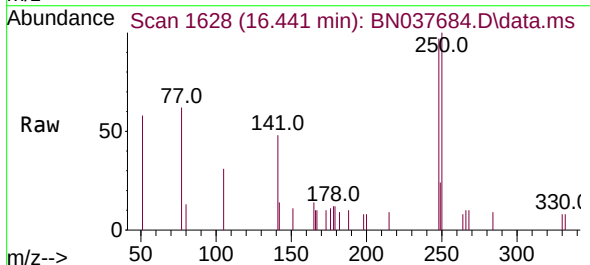
Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

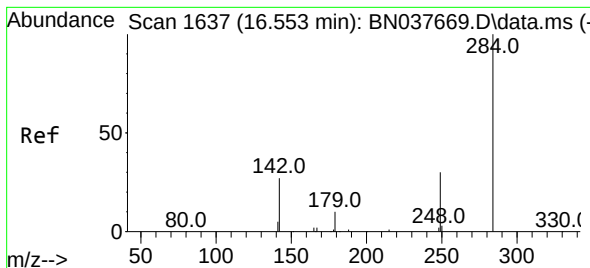
Tgt Ion:188 Resp: 10649
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.2 6.3 9.5#



#21
4-Bromophenyl-phenylether
Concen: 0.103 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion:248 Resp: 722
Ion Ratio Lower Upper
248 100
250 103.3 78.7 118.1
141 49.2 40.2 60.4





#22

Hexachlorobenzene

Concen: 0.120 ng

RT: 16.553 min Scan# 1637

Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

Instrument :

BNA_N

ClientSampleId :

LOQ-WATER-02-QT3-2025

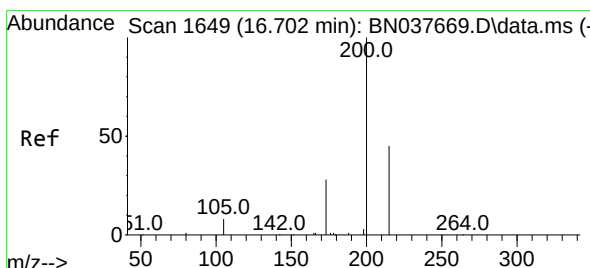
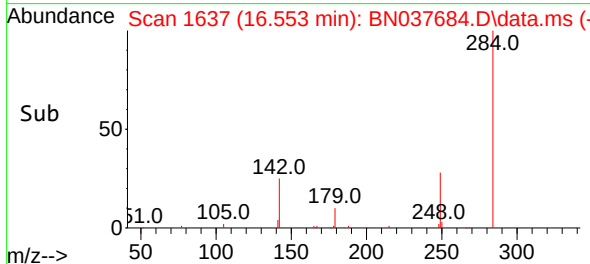
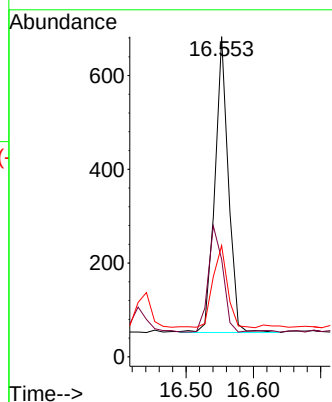
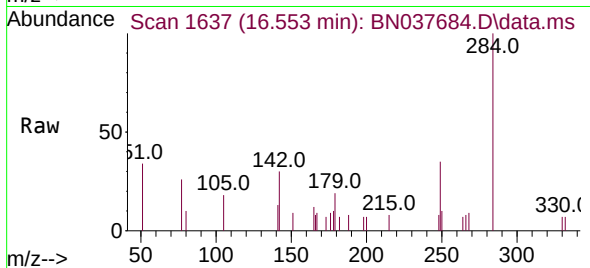
Tgt Ion:284 Resp: 883

Ion Ratio Lower Upper

284 100

142 38.4 29.4 44.2

249 29.9 24.4 36.6



#23

Atrazine

Concen: 0.102 ng

RT: 16.702 min Scan# 1649

Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

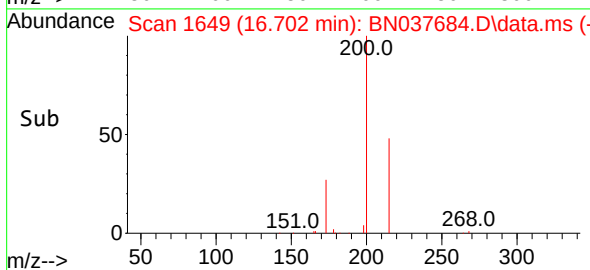
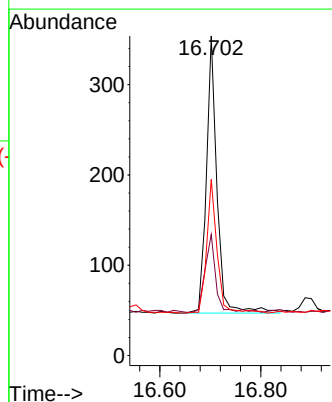
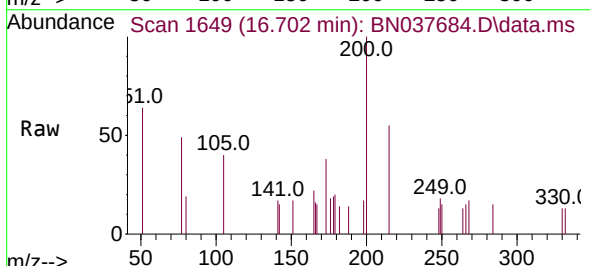
Tgt Ion:200 Resp: 445

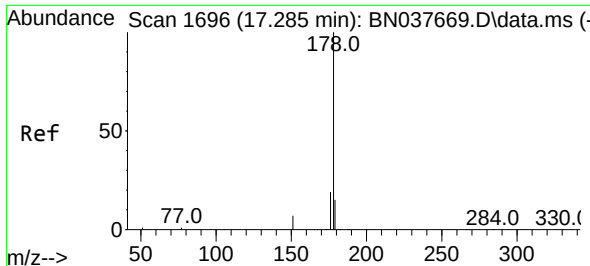
Ion Ratio Lower Upper

200 100

173 37.9 24.7 37.1#

215 55.1 37.5 56.3

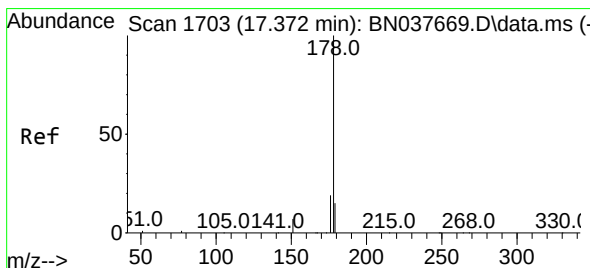
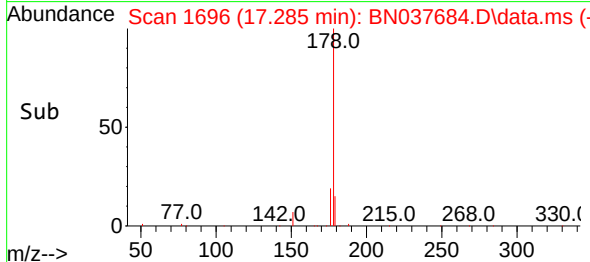
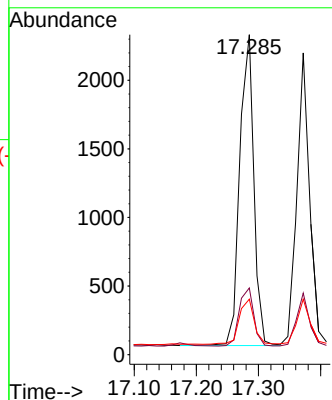
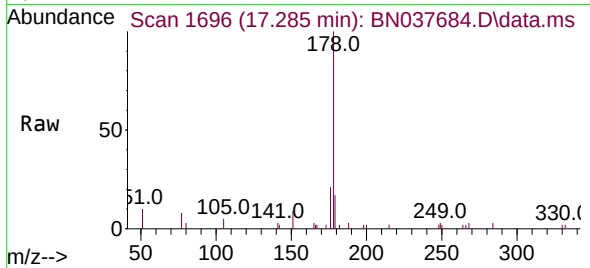




#25
Phenanthrene
Concen: 0.109 ng
RT: 17.285 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

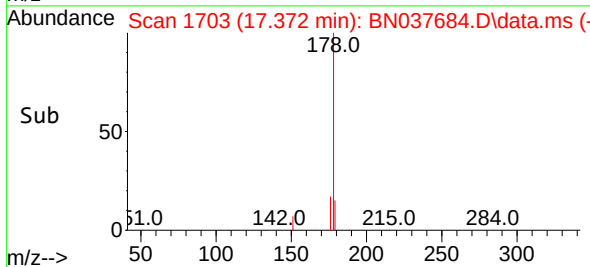
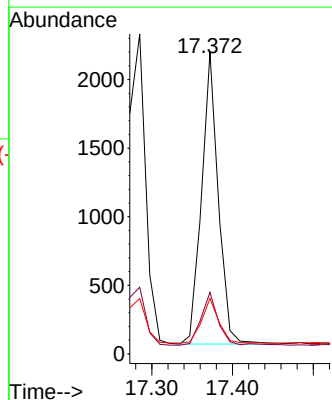
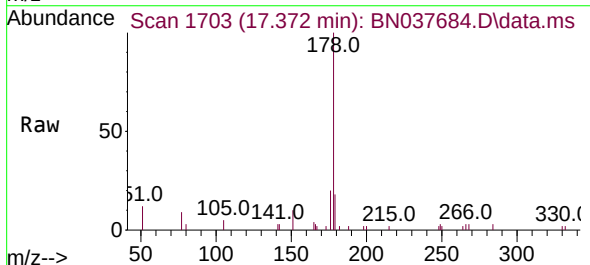
Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

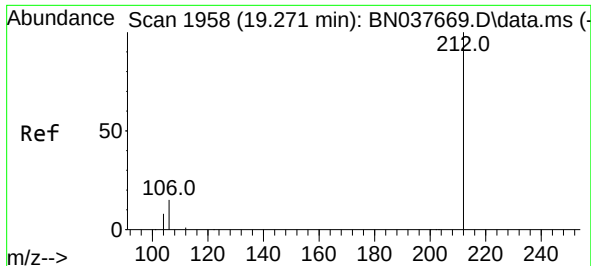
Tgt Ion:178 Resp: 3553
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.4 12.5 18.7



#26
Anthracene
Concen: 0.101 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion:178 Resp: 3064
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.6 12.0 18.0

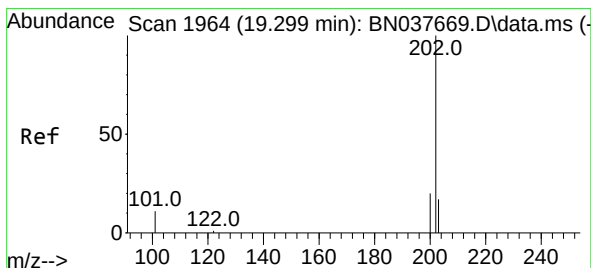
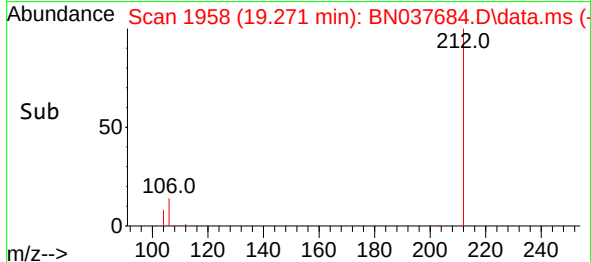
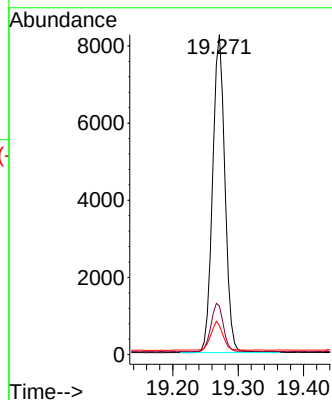
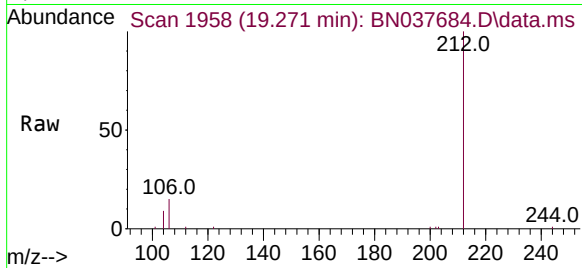




#27
Fluoranthene-d10
Concen: 0.393 ng
RT: 19.271 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

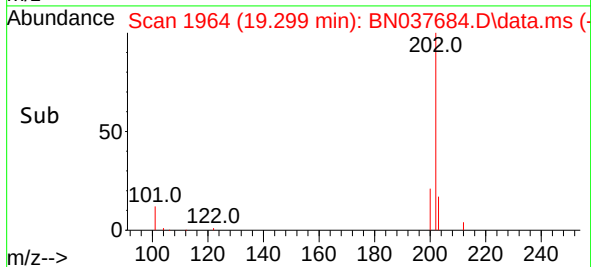
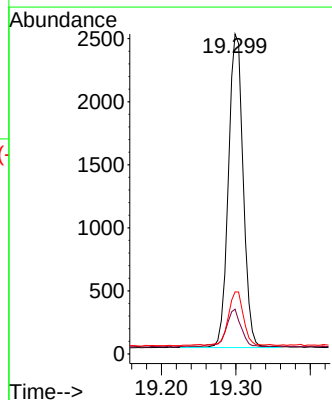
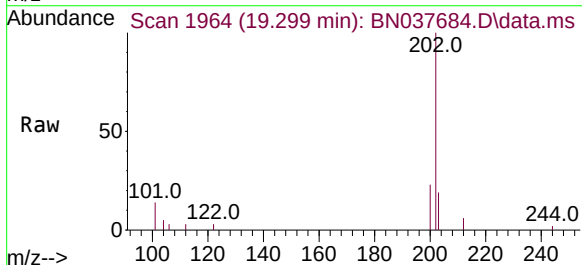
Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

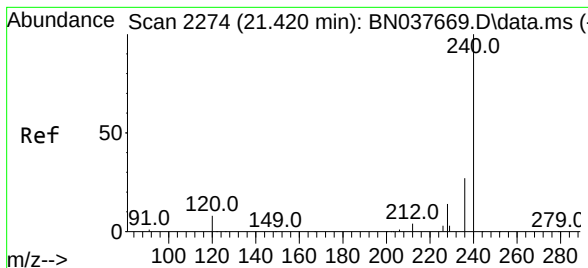
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.3	11.8	17.6
104	8.6	6.6	10.0



#28
Fluoranthene
Concen: 0.094 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.0	13.6
203	17.2	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

Instrument :

BNA_N

ClientSampleId :

LOQ-WATER-02-QT3-2025

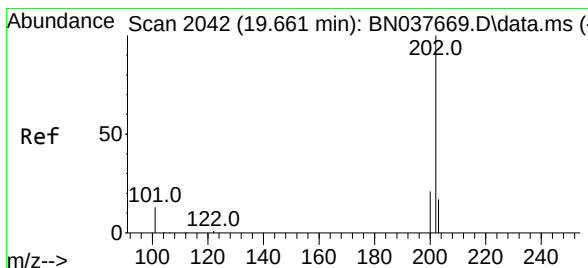
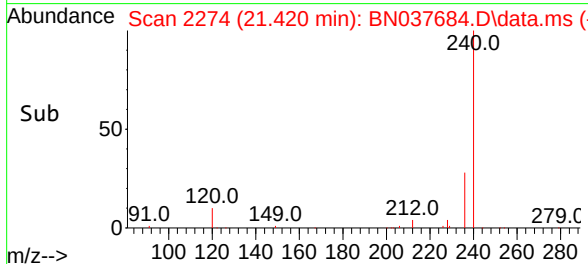
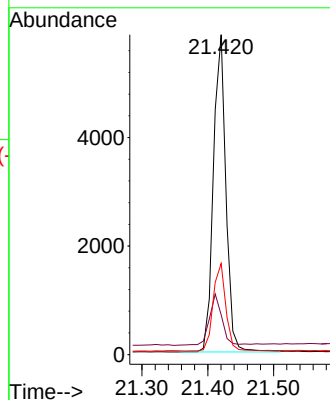
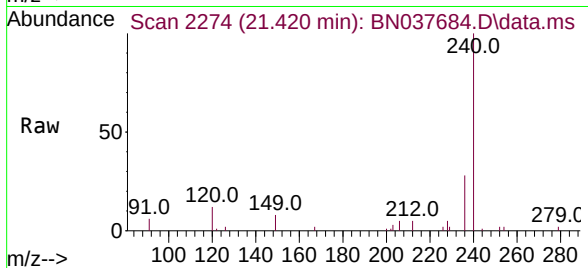
Tgt Ion:240 Resp: 7722

Ion Ratio Lower Upper

240 100

120 12.4 8.5 12.7

236 28.5 22.5 33.7



#30

Pyrene

Concen: 0.107 ng

RT: 19.661 min Scan# 2042

Delta R.T. 0.000 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

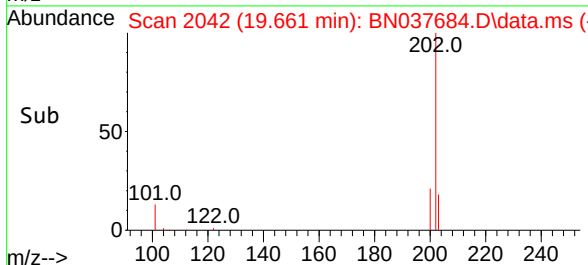
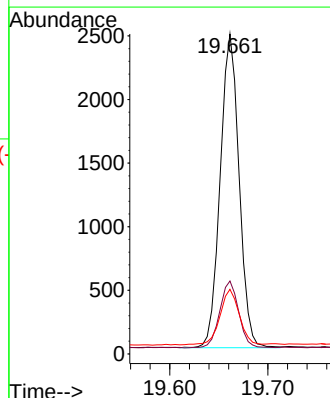
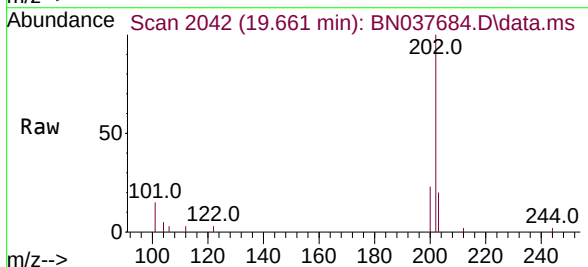
Tgt Ion:202 Resp: 3304

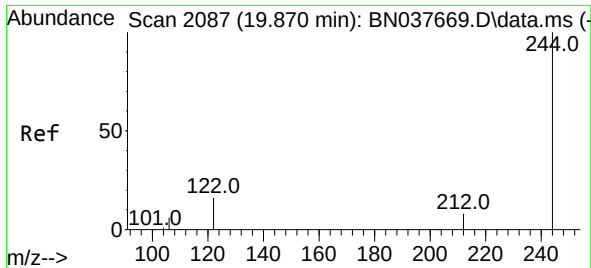
Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

203 18.0 14.3 21.5

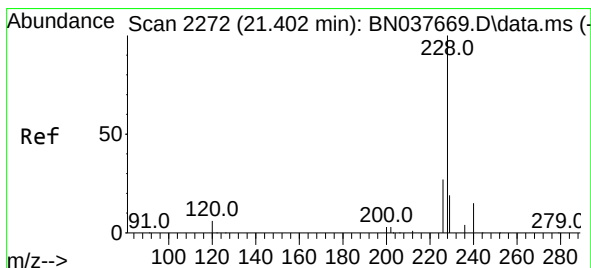
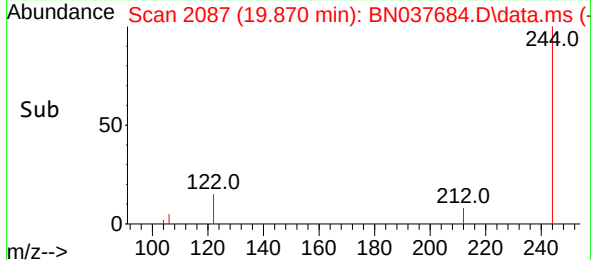
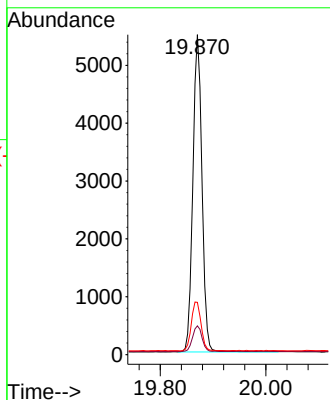
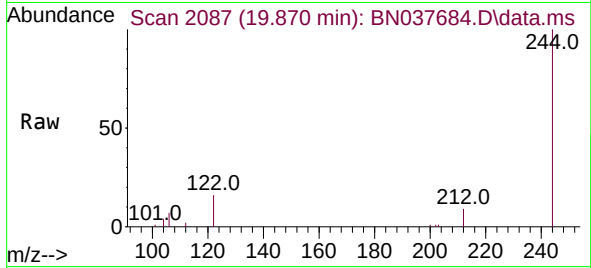




#31
 Terphenyl-d14
 Concen: 0.421 ng
 RT: 19.870 min Scan# 2087
 Delta R.T. 0.000 min
 Lab File: BN037684.D
 Acq: 10 Sep 2025 15:22

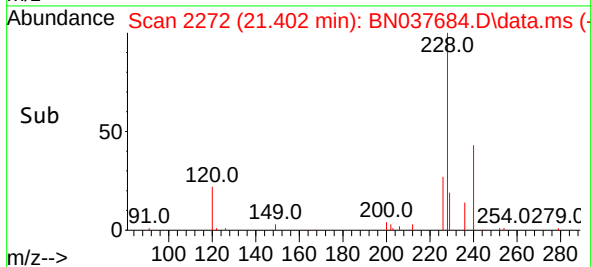
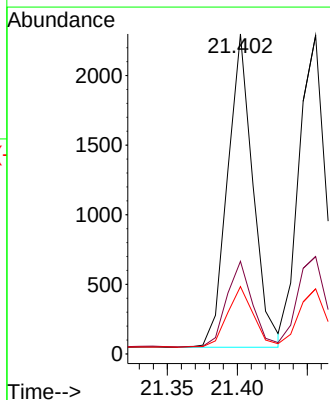
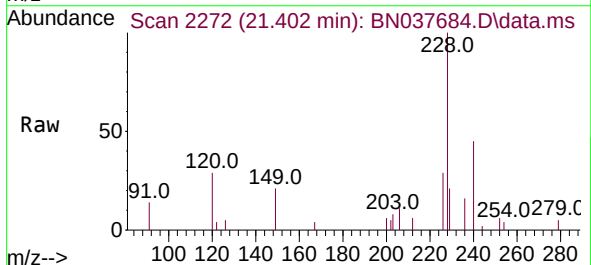
Instrument :
 BNA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2025

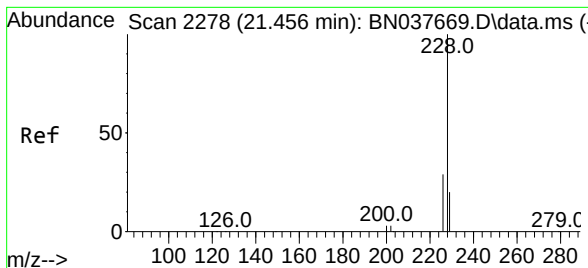
Tgt Ion:244 Resp: 6862
 Ion Ratio Lower Upper
 244 100
 212 9.0 7.0 10.4
 122 16.3 13.4 20.2



#32
 Benzo(a)anthracene
 Concen: 0.103 ng
 RT: 21.402 min Scan# 2272
 Delta R.T. 0.000 min
 Lab File: BN037684.D
 Acq: 10 Sep 2025 15:22

Tgt Ion:228 Resp: 2844
 Ion Ratio Lower Upper
 228 100
 226 28.9 21.8 32.6
 229 21.0 15.8 23.6





#33

Chrysene

Concen: 0.109 ng

RT: 21.456 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037684.D

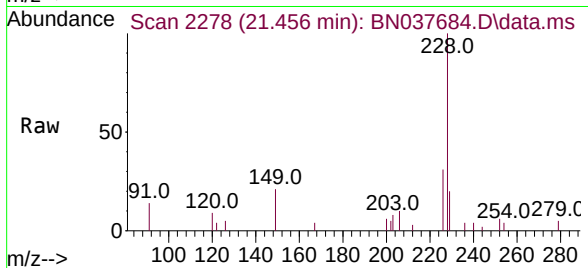
Acq: 10 Sep 2025 15:22

Instrument :

BNA_N

ClientSampleId :

LOQ-WATER-02-QT3-2025



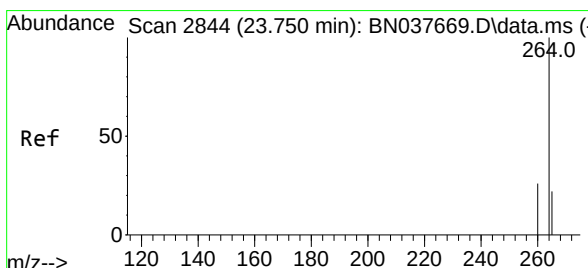
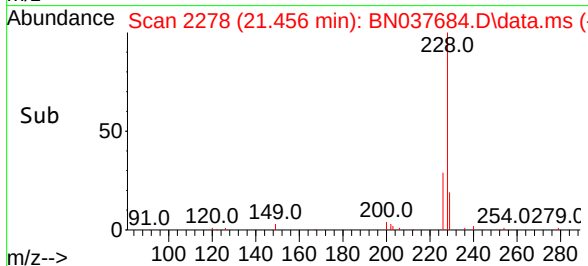
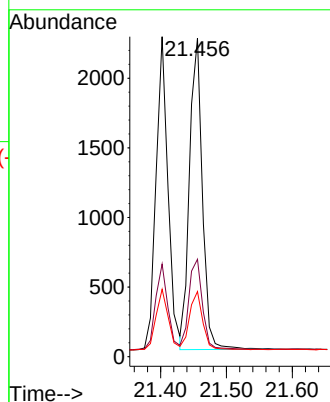
Tgt Ion:228 Resp: 3046

Ion Ratio Lower Upper

228 100

226 30.6 23.5 35.3

229 20.4 16.1 24.1



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.753 min Scan# 2845

Delta R.T. 0.003 min

Lab File: BN037684.D

Acq: 10 Sep 2025 15:22

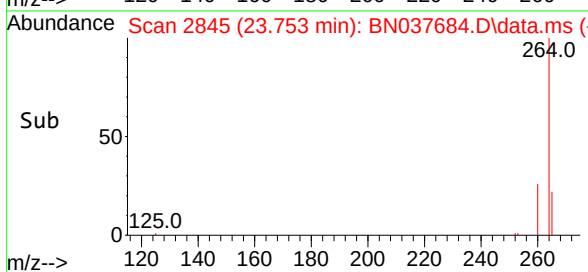
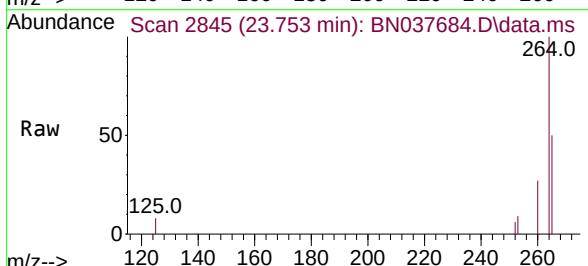
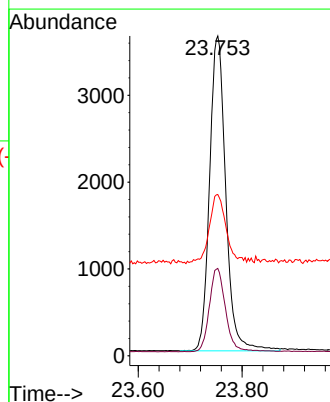
Tgt Ion:264 Resp: 7836

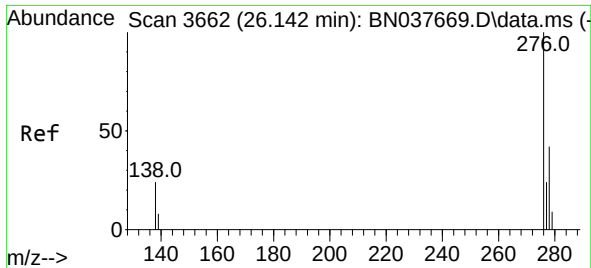
Ion Ratio Lower Upper

264 100

260 27.3 21.2 31.8

265 50.4 28.2 42.4#

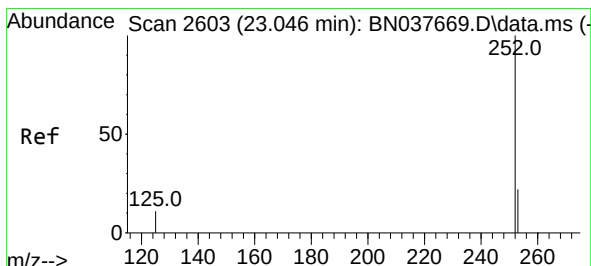
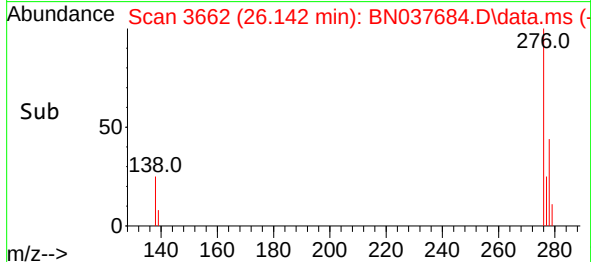
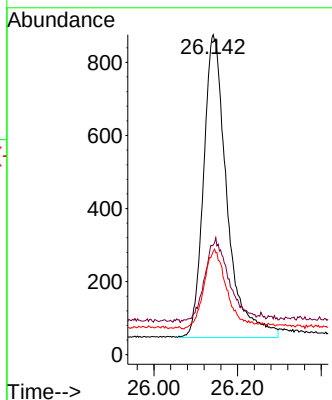
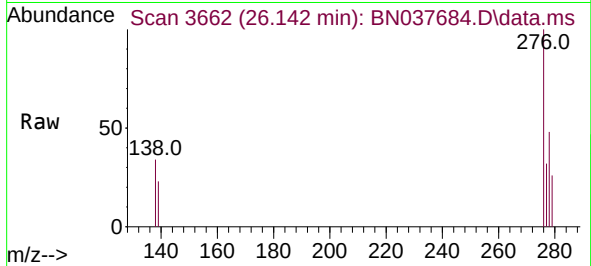




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.108 ng
RT: 26.142 min Scan# 3662
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

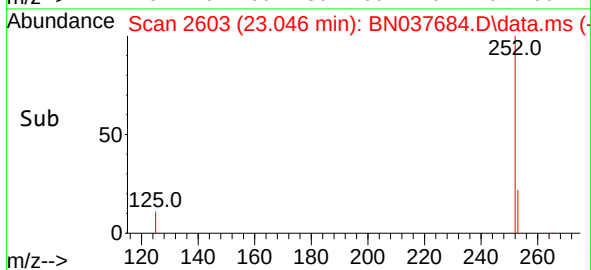
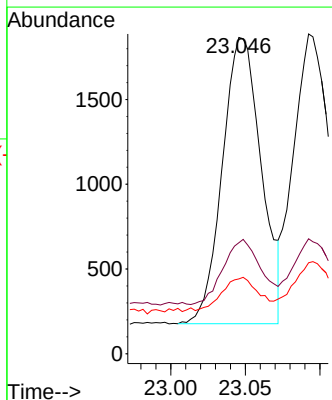
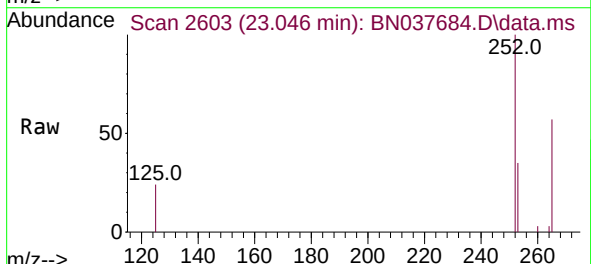
Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

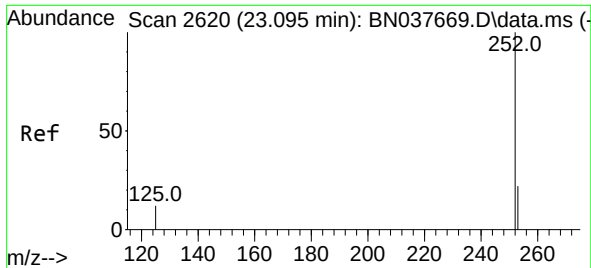
Tgt Ion:276 Resp: 3214
Ion Ratio Lower Upper
276 100
138 29.4 21.3 31.9
277 25.5 20.1 30.1



#37
Benzo(b)fluoranthene
Concen: 0.106 ng
RT: 23.046 min Scan# 2603
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion:252 Resp: 3068
Ion Ratio Lower Upper
252 100
253 35.1 19.7 29.5#
125 23.7 10.2 15.2#

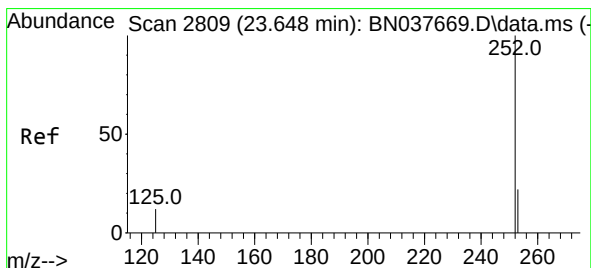
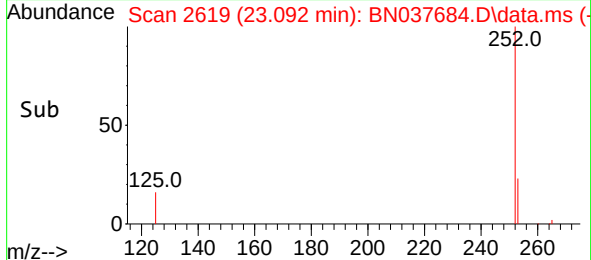
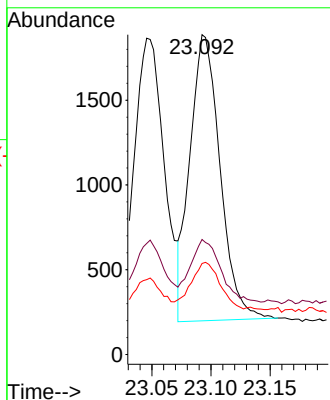
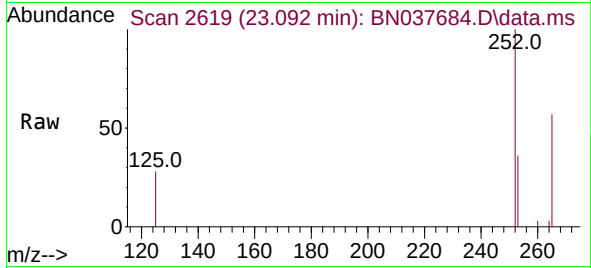




#38
Benzo(k)fluoranthene
Concen: 0.105 ng
RT: 23.092 min Scan# 2620
Delta R.T. -0.003 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

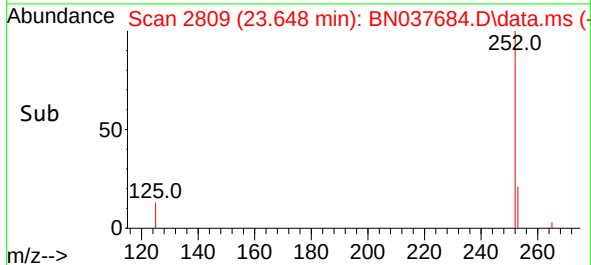
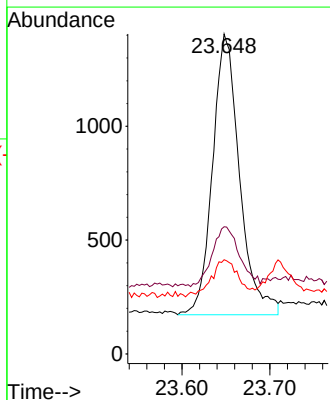
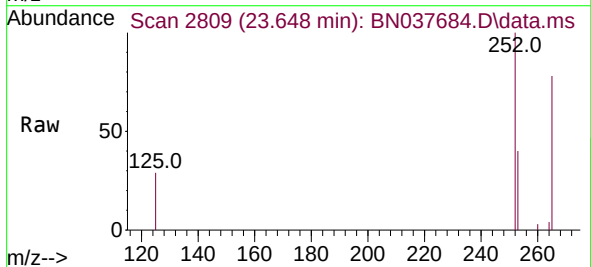
Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025

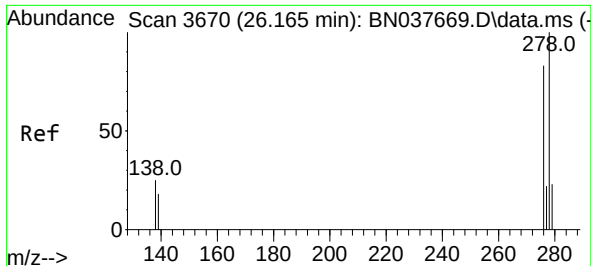
Tgt Ion:252 Resp: 2994
Ion Ratio Lower Upper
252 100
253 36.0 19.9 29.9#
125 28.5 11.4 17.0#



#39
Benzo(a)pyrene
Concen: 0.110 ng
RT: 23.648 min Scan# 2809
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

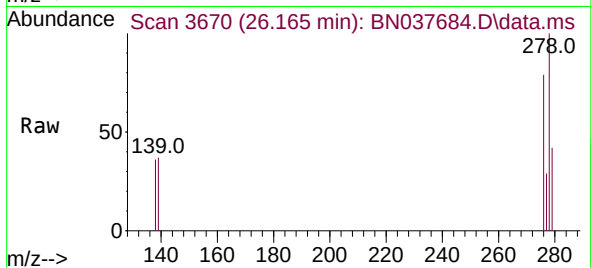
Tgt Ion:252 Resp: 2639
Ion Ratio Lower Upper
252 100
253 39.8 20.7 31.1#
125 29.4 11.9 17.9#



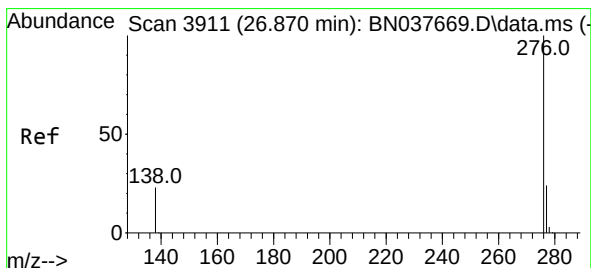
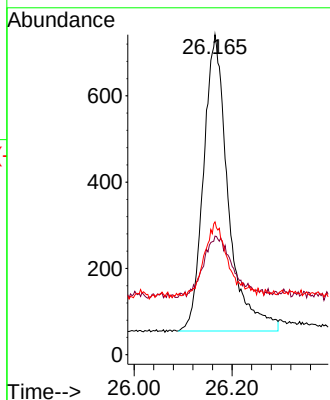
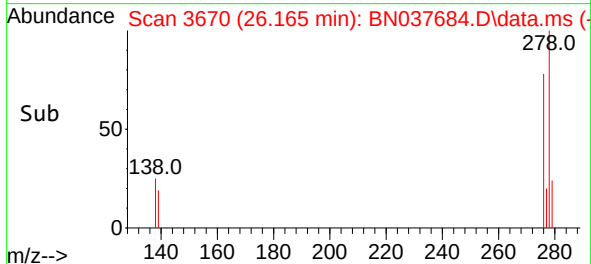


#40
Dibenzo(a,h)anthracene
Concen: 0.107 ng
RT: 26.165 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Instrument :
BNA_N
ClientSampleId :
LOQ-WATER-02-QT3-2025



Tgt Ion:278 Resp: 2397
Ion Ratio Lower Upper
278 100
139 37.1 19.1 28.7#
279 41.5 20.9 31.3#



#41
Benzo(g,h,i)perylene
Concen: 0.107 ng
RT: 26.867 min Scan# 3910
Delta R.T. -0.003 min
Lab File: BN037684.D
Acq: 10 Sep 2025 15:22

Tgt Ion:276 Resp: 2893
Ion Ratio Lower Upper
276 100
277 30.6 19.9 29.9#
138 33.8 20.5 30.7#

