

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
 Data File : BN025302.D
 Acq On : 06 May 2023 05:49
 Operator : CG/JU
 Sample : 02588-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-3-6-05012023

Quant Time: May 08 03:20:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 08 02:37:05 2023
 Response via : Initial Calibration

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

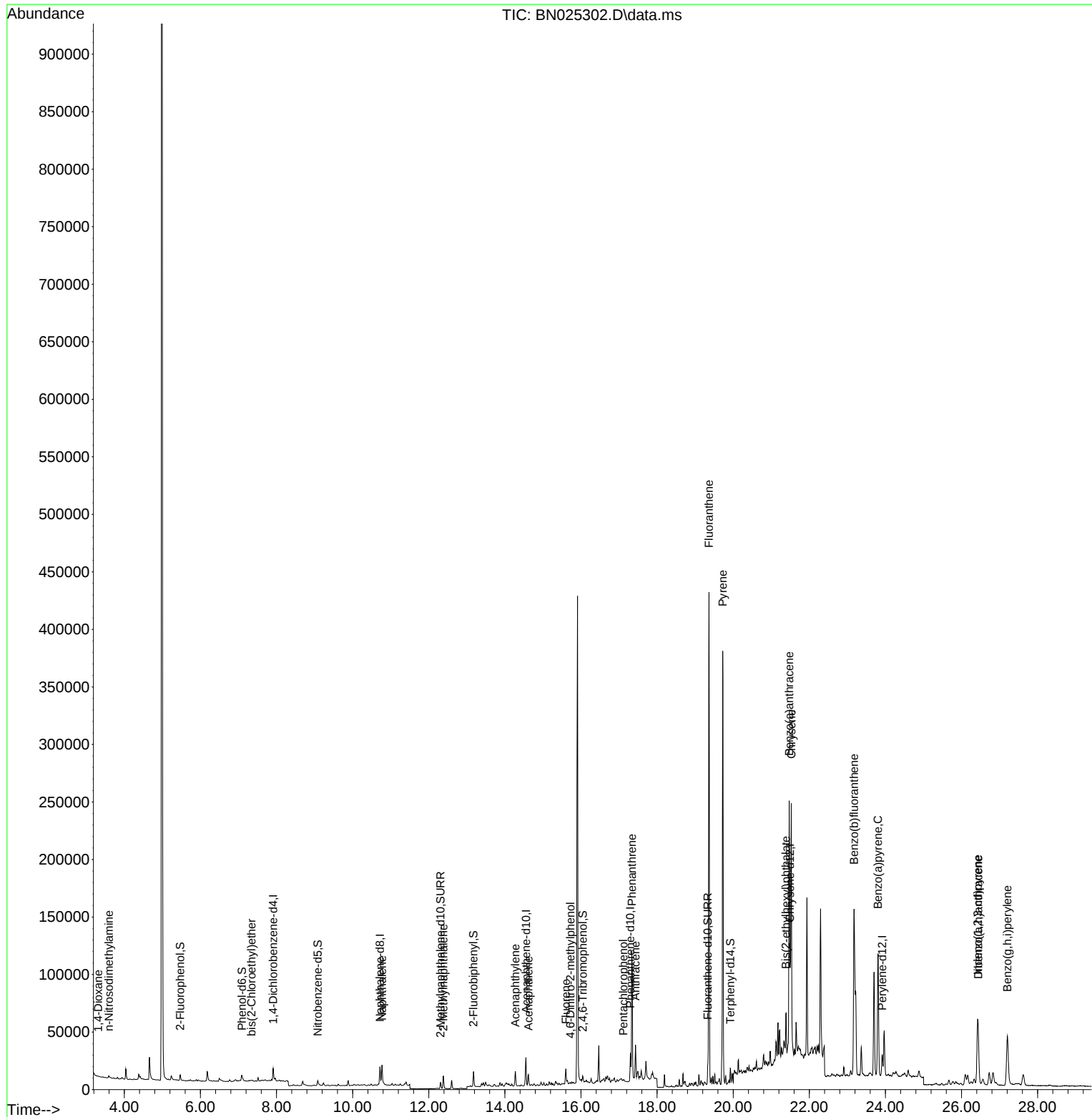
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.911	152	6181	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	21982	0.400	ng	#-0.01
13) Acenaphthene-d10	14.555	164	13650	0.400	ng	0.00
19) Phenanthrene-d10	17.299	188	30857	0.400	ng	#-0.01
29) Chrysene-d12	21.491	240	27746	0.400	ng	#-0.02
35) Perylene-d12	23.916	264	25690	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.470	112	4619	0.307	ng	0.00
5) Phenol-d6	7.088	99	6114	0.324	ng	0.00
8) Nitrobenzene-d5	9.084	82	4162	0.230	ng	-0.01
11) 2-Methylnaphthalene-d10	12.309	152	8217	0.273	ng	0.00
14) 2,4,6-Tribromophenol	16.045	330	2032	0.291	ng	-0.02
15) 2-Fluorobiphenyl	13.176	172	12147	0.259	ng	-0.01
27) Fluoranthene-d10	19.334	212	18511	0.243	ng	0.00
31) Terphenyl-d14	19.928	244	13123	0.235	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.318	88	130	0.020	ng	# 1
3) n-Nitrosodimethylamine	3.592	42	520	0.052	ng	# 1
6) bis(2-Chloroethyl)ether	7.341	93	432	0.026	ng	# 54
9) Naphthalene	10.771	128	22506	0.399	ng	100
12) 2-Methylnaphthalene	12.385	142	8661	0.217	ng	99
16) Acenaphthylene	14.277	152	14338	0.235	ng	98
17) Acenaphthene	14.619	154	4712	0.124	ng	95
18) Fluorene	15.603	166	8563	0.164	ng	# 92
20) 4,6-Dinitro-2-methylph...	15.722	198	92	0.294	ng	# 1
24) Pentachlorophenol	17.112	266	52	0.273	ng	# 64
25) Phenanthrene	17.336	178	127808	1.497	ng	99
26) Anthracene	17.435	178	31194	0.390	ng	100
28) Fluoranthene	19.363	202	365610	3.427	ng	99
30) Pyrene	19.726	202	332469	3.505	ng	# 96
32) Benzo(a)anthracene	21.473	228	179198	1.911	ng	98
33) Chrysene	21.527	228	211755	2.268	ng	98
34) Bis(2-ethylhexyl)phtha...	21.383	149	35495	0.482	ng	# 92
36) Indeno(1,2,3-cd)pyrene	26.424	276	98358	0.955	ng	95
37) Benzo(b)fluoranthene	23.176	252	253779	3.116	ng	96
39) Benzo(a)pyrene	23.805	252	159487	1.912	ng	94
40) Dibenzo(a,h)anthracene	26.436	278	24372	0.300	ng	# 82
41) Benzo(g,h,i)perylene	27.205	276	96729	1.083	ng	100

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

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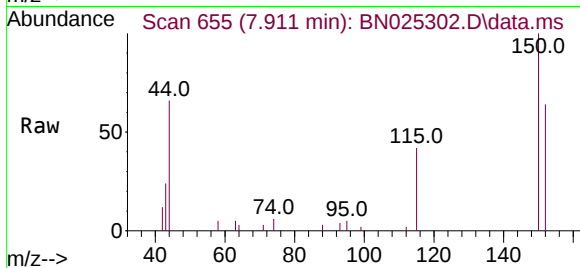
Quant Time: May 08 03:20:35 2023
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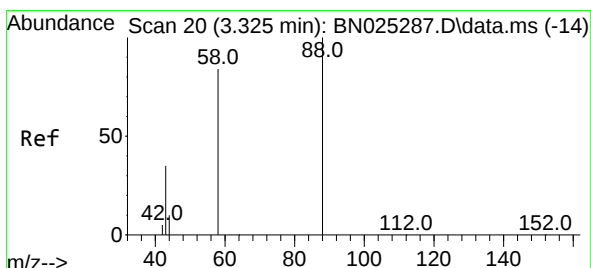
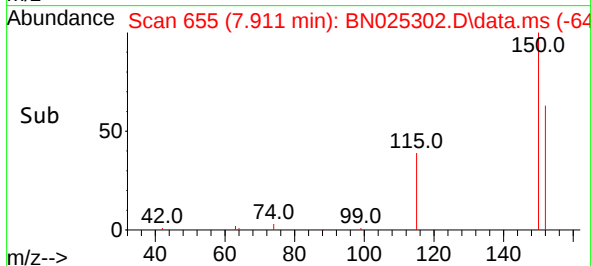
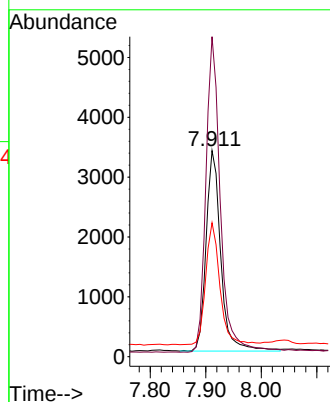
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.911 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN025302.D
 Acq: 06 May 2023 05:49

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-3-6-05012023



Tgt Ion:152 Resp: 6181

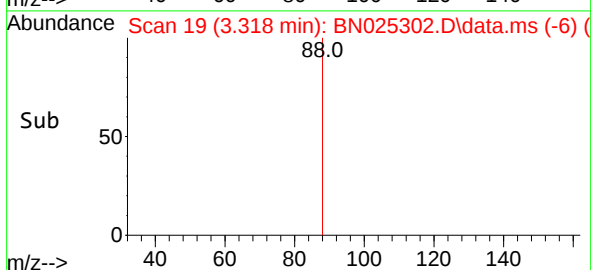
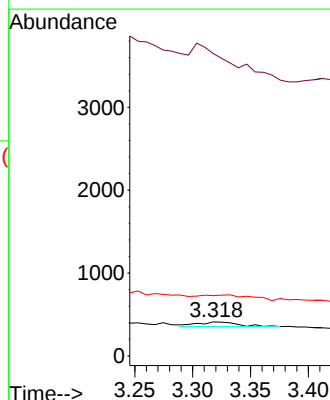
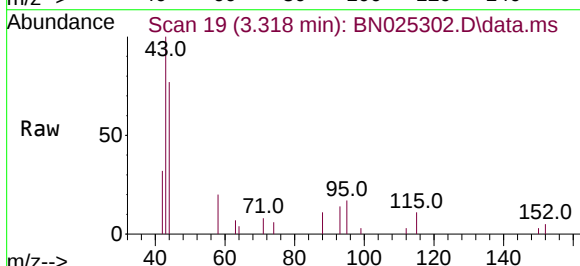
Ion	Ratio	Lower	Upper
152	100		
150	155.2	123.8	185.8
115	64.9	52.9	79.3



#2
 1,4-Dioxane
 Concen: 0.020 ng
 RT: 3.318 min Scan# 19
 Delta R.T. -0.007 min
 Lab File: BN025302.D
 Acq: 06 May 2023 05:49

Tgt Ion: 88 Resp: 130

Ion	Ratio	Lower	Upper
88	100		
43	820.0	37.2	55.8#
58	0.0	71.5	107.3#

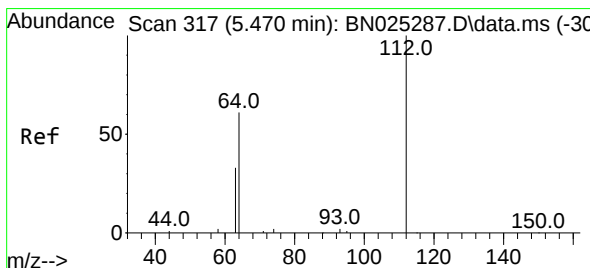
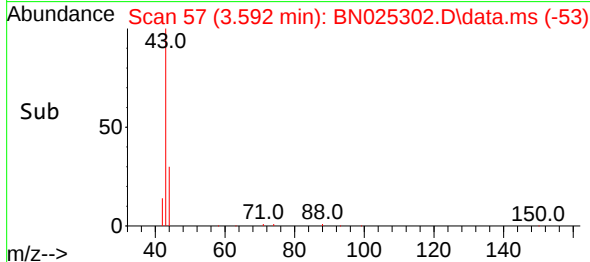
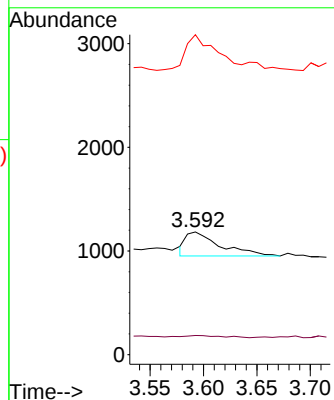
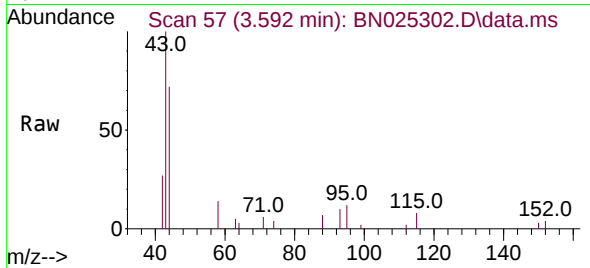




#3
n-Nitrosodimethylamine
Concen: 0.052 ng
RT: 3.592 min Scan# 51
Delta R.T. -0.072 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

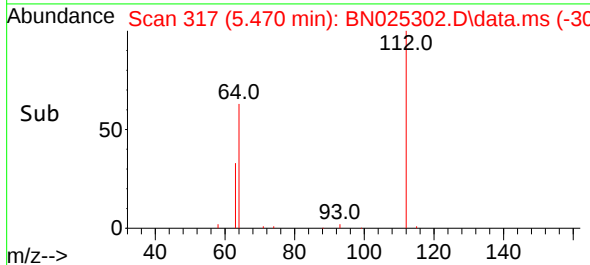
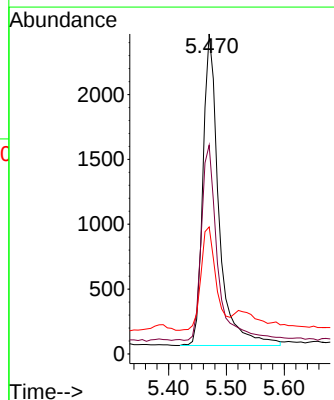
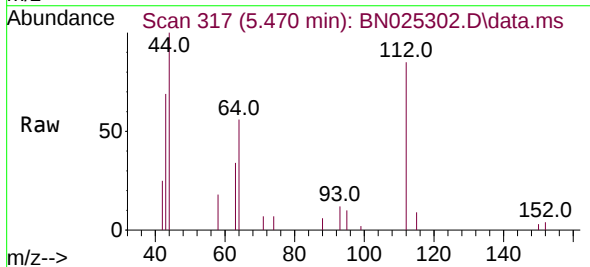
Instrument :
BNA_N
ClientSampleId :
ZONE-B-3-6-05012023

Tgt Ion: 42 Resp: 520
Ion Ratio Lower Upper
42 100
74 9.2 79.9 119.9#
44 94.2 7.0 10.6#



#4
2-Fluorophenol
Concen: 0.307 ng
RT: 5.470 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Tgt Ion: 112 Resp: 4619
Ion Ratio Lower Upper
112 100
64 63.8 51.5 77.3
63 31.7 27.8 41.6





#5

Phenol-d6

Concen: 0.324 ng

RT: 7.088 min Scan# 541

Delta R.T. 0.000 min

Lab File: BN025302.D

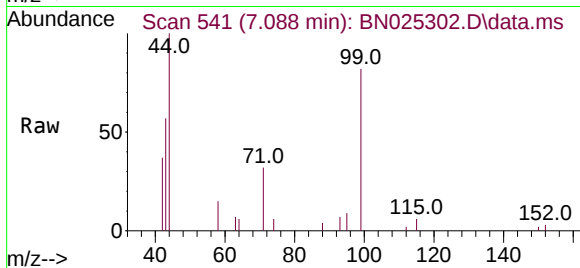
Acq: 06 May 2023 05:49

Instrument :

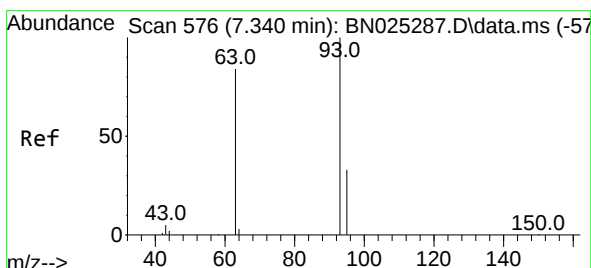
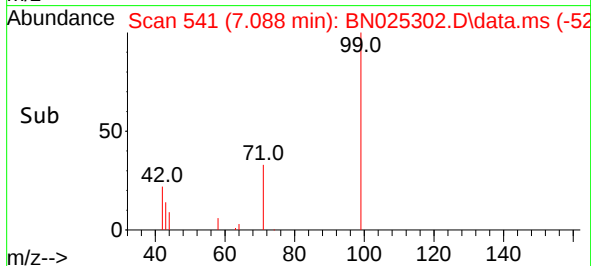
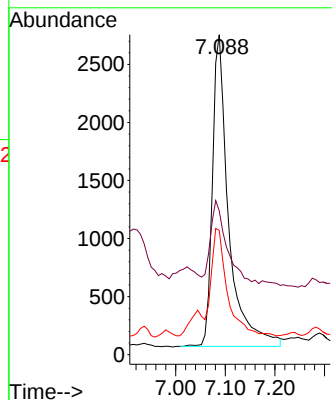
BNA_N

ClientSampleId :

ZONE-B-3-6-05012023



Tgt Ion:	99	Resp:	6114
Ion	Ratio	Lower	Upper
99	100		
42	26.5	22.0	33.0
71	33.8	28.7	43.1



#6

bis(2-Chloroethyl)ether

Concen: 0.026 ng

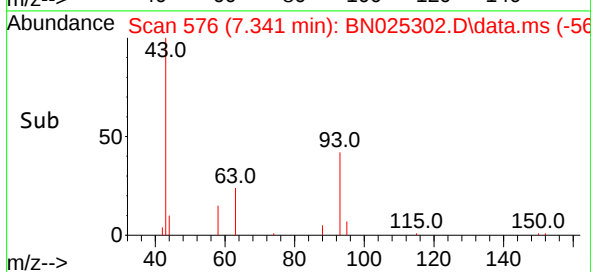
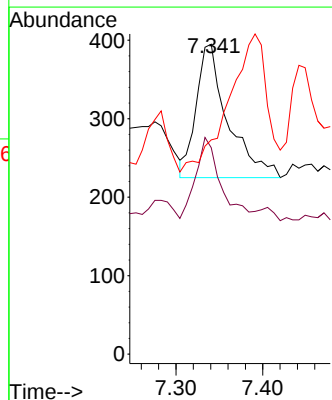
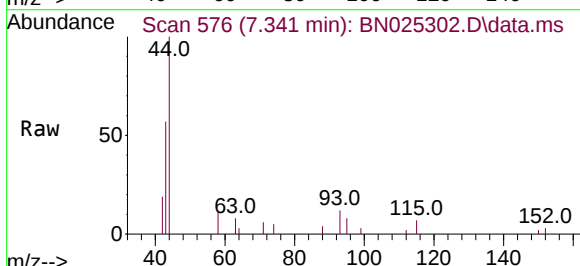
RT: 7.341 min Scan# 576

Delta R.T. 0.000 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

Tgt Ion:	93	Resp:	432
Ion	Ratio	Lower	Upper
93	100		
63	47.2	67.8	101.6#
95	0.0	26.7	40.1#

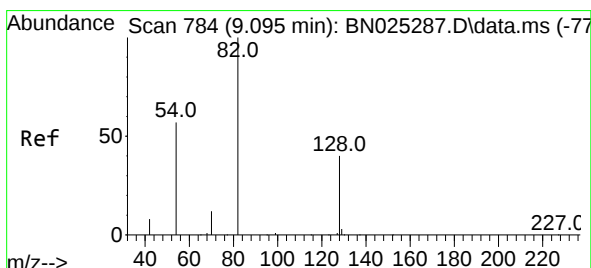
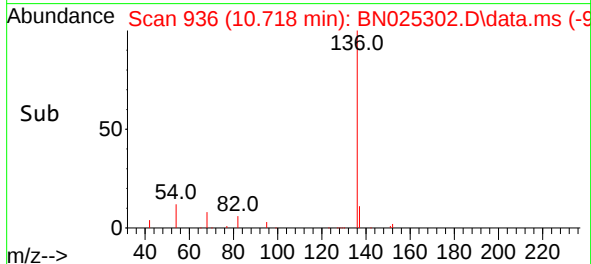
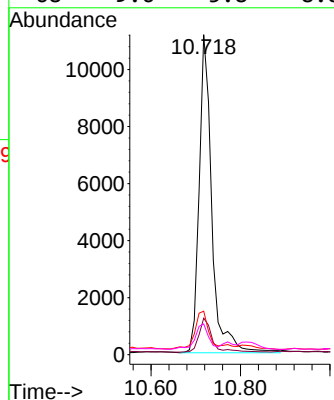
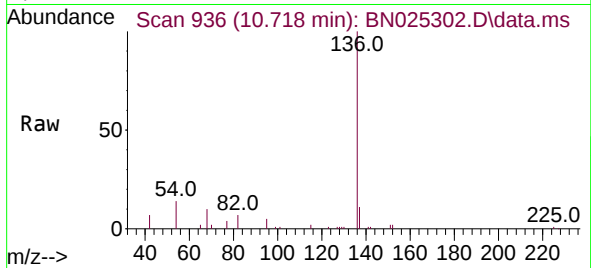




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

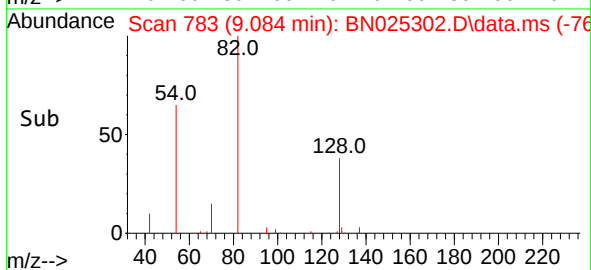
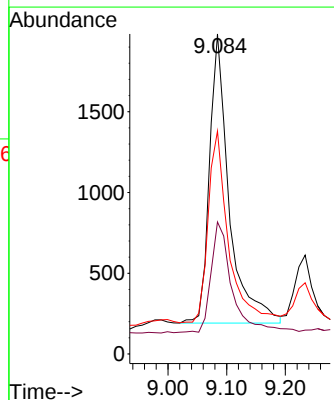
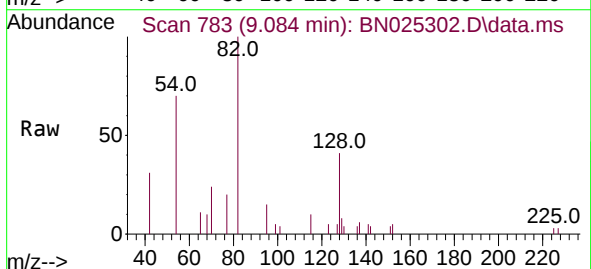
Instrument :
BNA_N
ClientSampleId :
ZONE-B-3-6-05012023

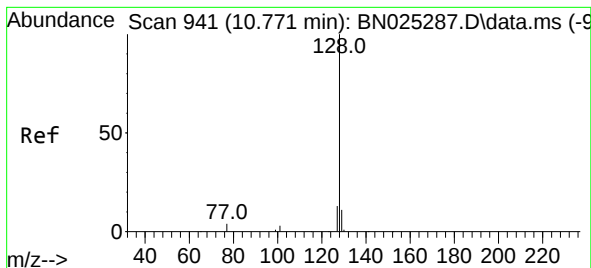
Tgt Ion:	136	Resp:	21982
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.4	14.2
54	13.6	8.5	12.7#
68	9.6	5.8	8.8#



#8
Nitrobenzene-d5
Concen: 0.230 ng
RT: 9.084 min Scan# 783
Delta R.T. -0.011 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Tgt Ion:	82	Resp:	4162
Ion Ratio	Lower	Upper	
82	100		
128	41.2	35.3	52.9
54	69.7	48.7	73.1





#9

Naphthalene

Concen: 0.399 ng

RT: 10.771 min Scan# 941

Delta R.T. 0.000 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

Instrument :

BNA_N

ClientSampleId :

ZONE-B-3-6-05012023

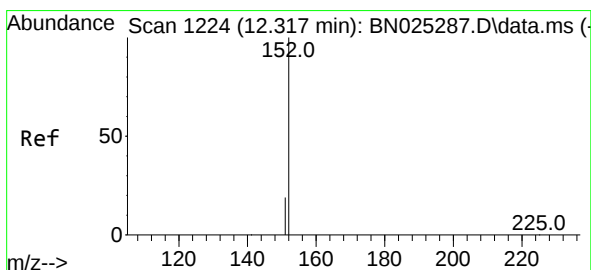
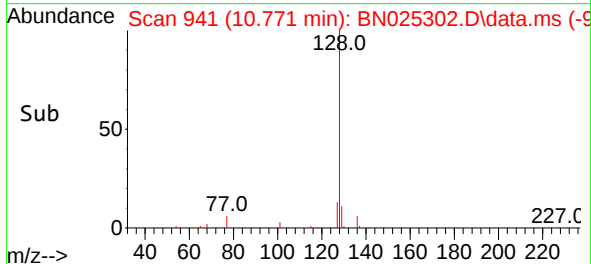
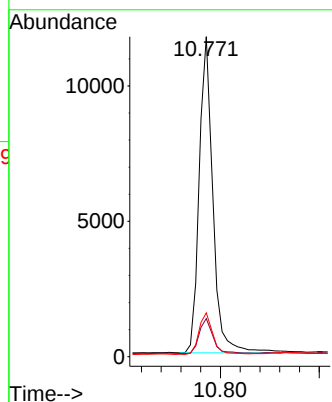
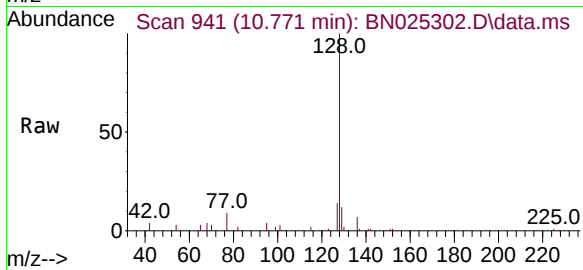
Tgt Ion:128 Resp: 22506

Ion Ratio Lower Upper

128 100

129 11.9 9.4 14.2

127 13.7 11.0 16.6



#11

2-Methylnaphthalene-d10

Concen: 0.273 ng

RT: 12.309 min Scan# 1222

Delta R.T. -0.007 min

Lab File: BN025302.D

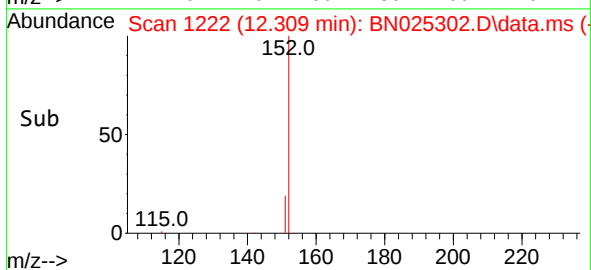
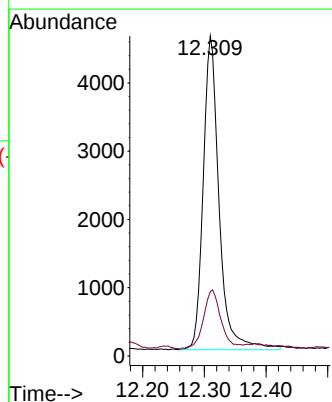
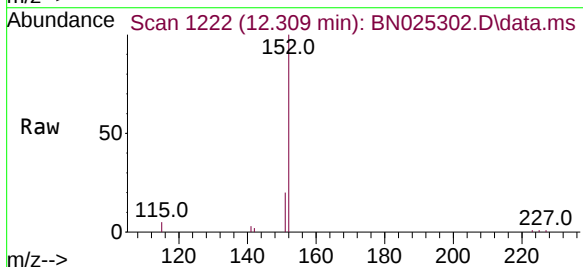
Acq: 06 May 2023 05:49

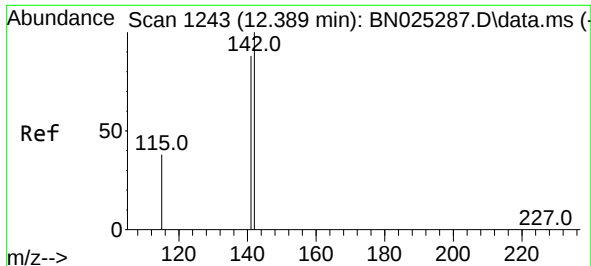
Tgt Ion:152 Resp: 8217

Ion Ratio Lower Upper

152 100

151 20.9 16.4 24.6

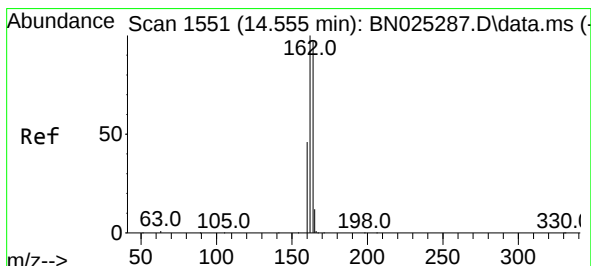
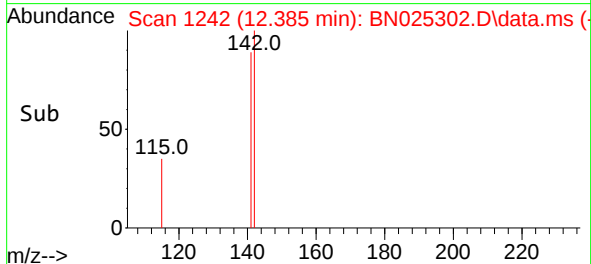
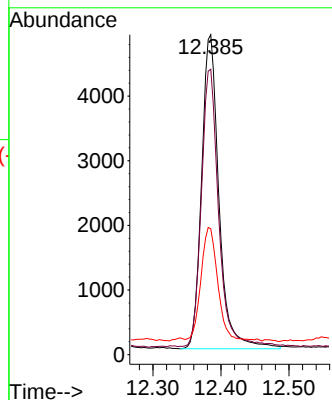
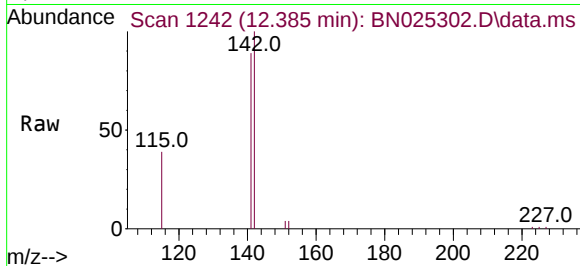




#12
2-Methylnaphthalene
Concen: 0.217 ng
RT: 12.385 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

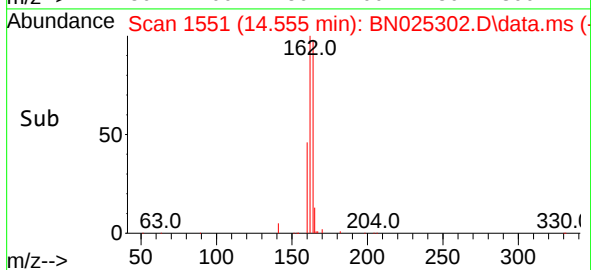
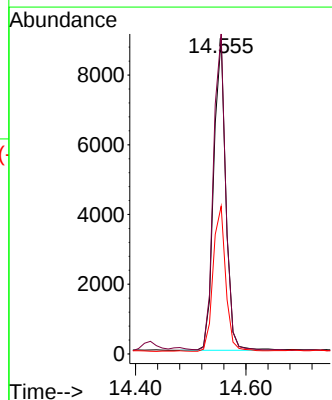
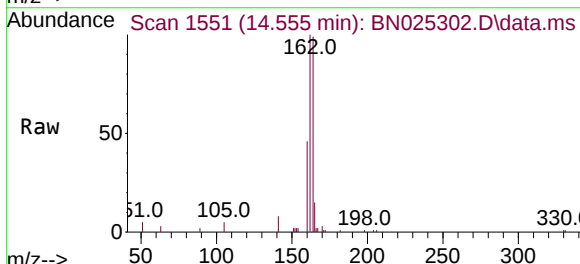
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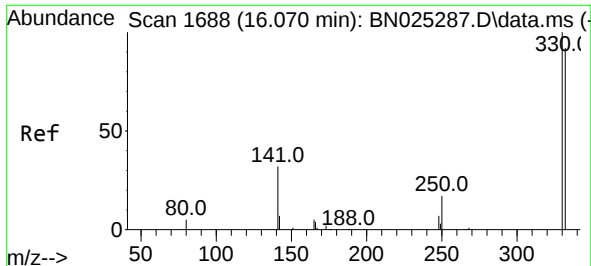
Tgt Ion:142 Resp: 8661
Ion Ratio Lower Upper
142 100
141 89.2 70.5 105.7
115 39.3 31.6 47.4



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.555 min Scan# 1551
Delta R.T. 0.000 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

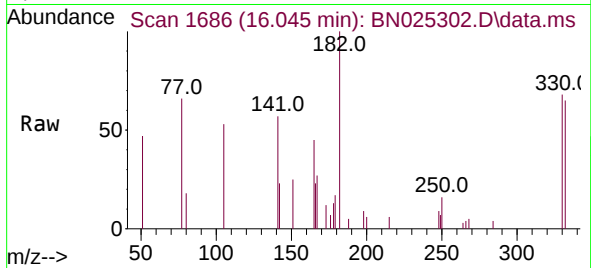
Tgt Ion:164 Resp: 13650
Ion Ratio Lower Upper
164 100
162 101.2 82.1 123.1
160 46.7 38.3 57.5



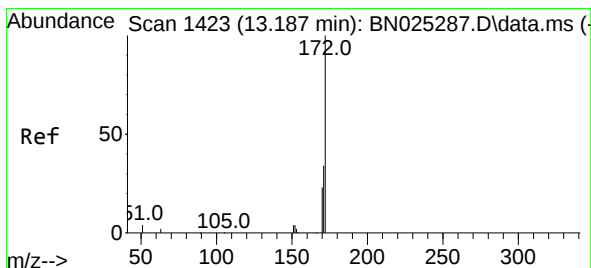
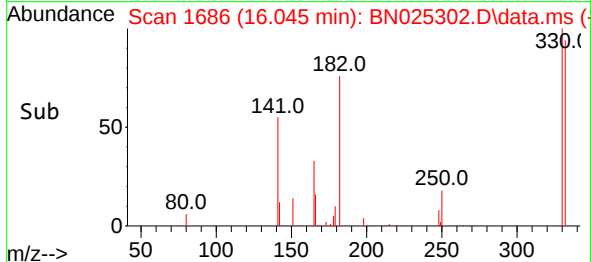
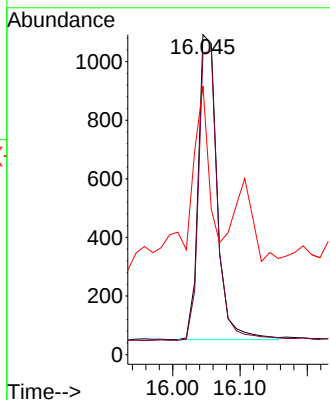


#14
2,4,6-Tribromophenol
Concen: 0.291 ng
RT: 16.045 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Instrument :
BNA_N
ClientSampleId :
ZONE-B-3-6-05012023

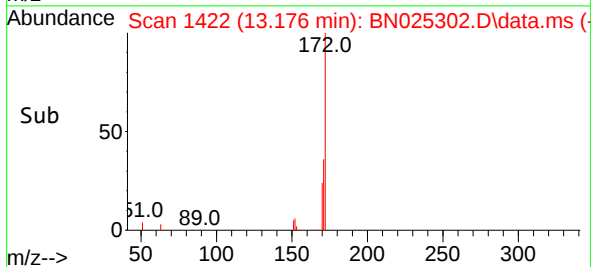
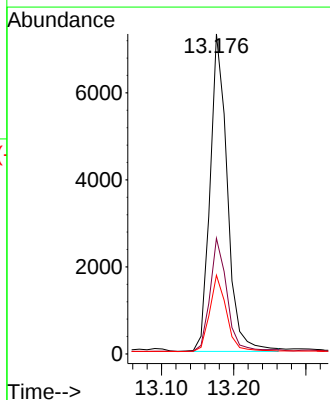
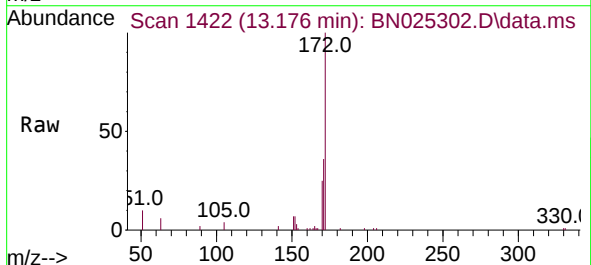


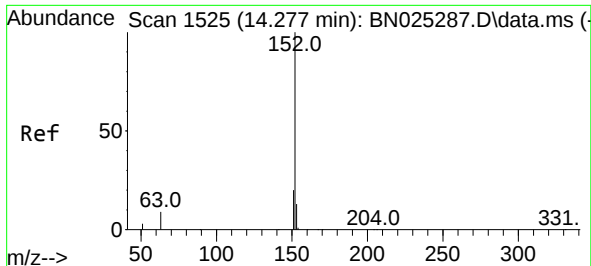
Tgt Ion:330 Resp: 2032
Ion Ratio Lower Upper
330 100
332 95.9 77.4 116.0
141 36.7 28.9 43.3



#15
2-Fluorobiphenyl
Concen: 0.259 ng
RT: 13.176 min Scan# 1422
Delta R.T. -0.011 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Tgt Ion:172 Resp: 12147
Ion Ratio Lower Upper
172 100
171 36.2 27.9 41.9
170 24.6 19.0 28.4

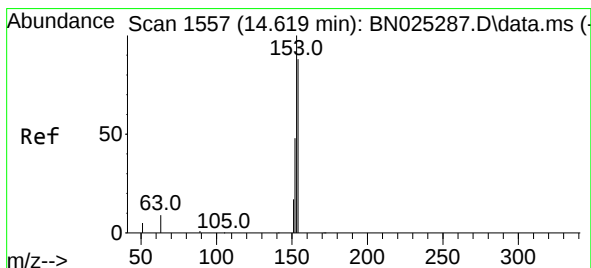
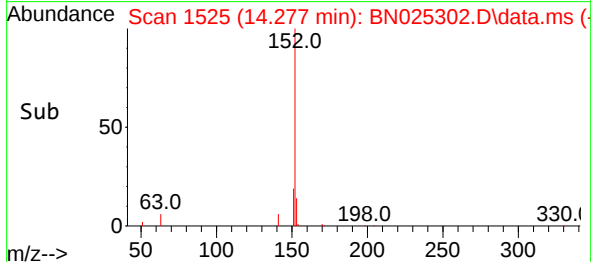
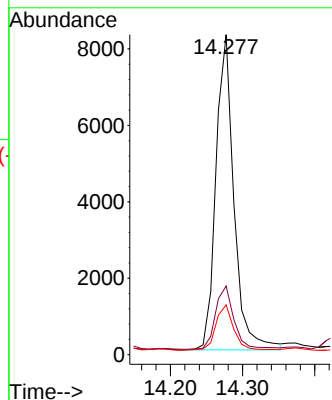
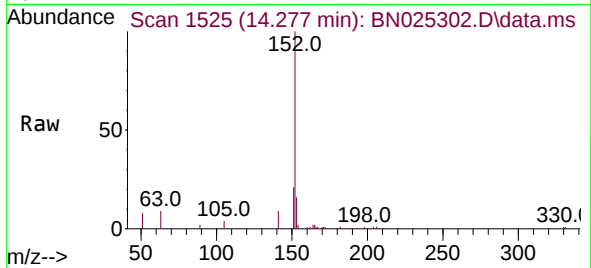




#16
Acenaphthylene
Concen: 0.235 ng
RT: 14.277 min Scan# 1525
Delta R.T. 0.000 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

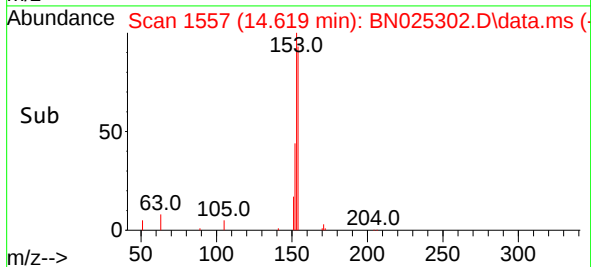
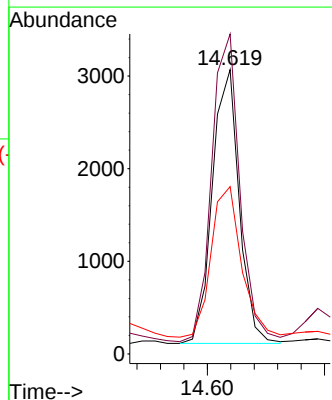
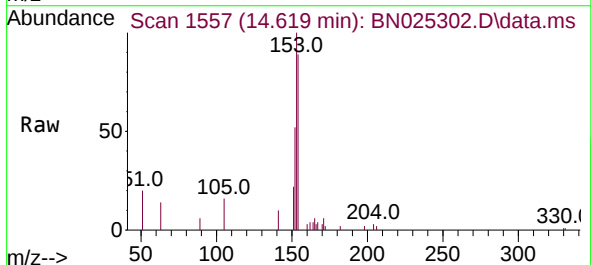
Instrument :
BNA_N
ClientSampleId :
ZONE-B-3-6-05012023

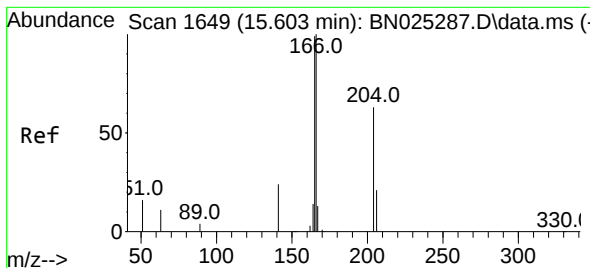
Tgt Ion:152 Resp: 14338
Ion Ratio Lower Upper
152 100
151 20.7 16.1 24.1
153 14.5 10.3 15.5



#17
Acenaphthene
Concen: 0.124 ng
RT: 14.619 min Scan# 1557
Delta R.T. 0.000 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Tgt Ion:154 Resp: 4712
Ion Ratio Lower Upper
154 100
153 117.5 91.3 136.9
152 62.3 44.7 67.1





#18

Fluorene

Concen: 0.164 ng

RT: 15.603 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN025302.D

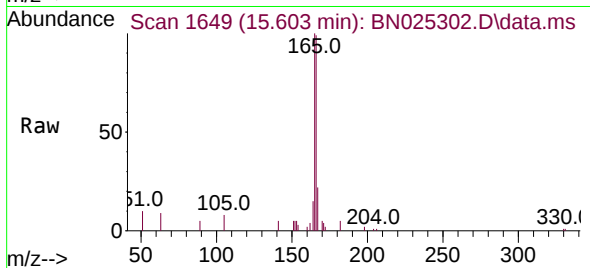
Acq: 06 May 2023 05:49

Instrument :

BNA_N

ClientSampleId :

ZONE-B-3-6-05012023



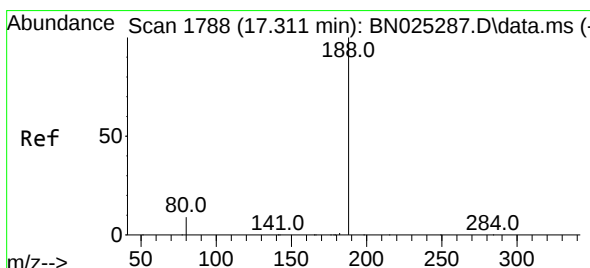
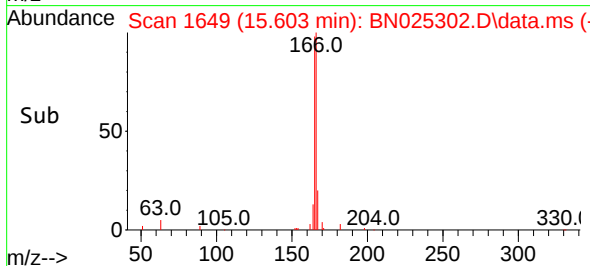
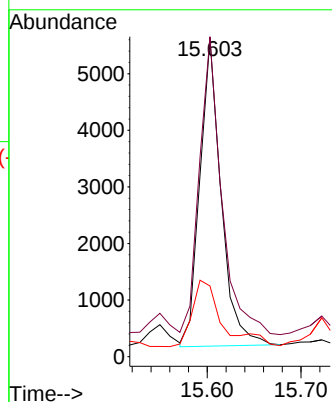
Tgt Ion:166 Resp: 8563

Ion Ratio Lower Upper

166 100

165 101.4 79.0 118.4

167 30.4 10.3 15.5#



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.299 min Scan# 1787

Delta R.T. -0.012 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

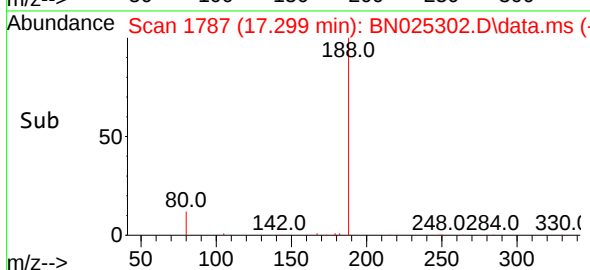
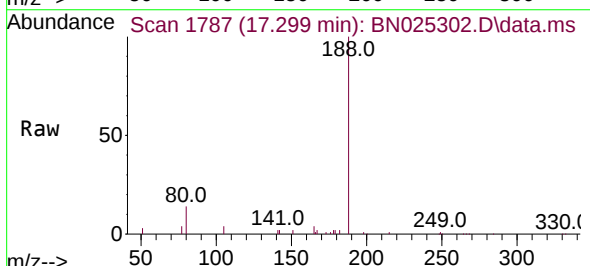
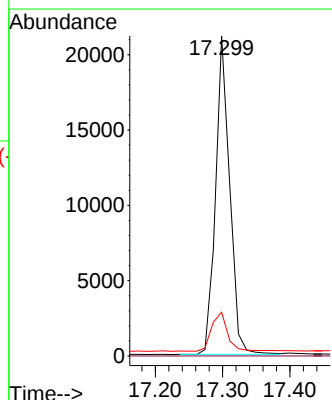
Tgt Ion:188 Resp: 30857

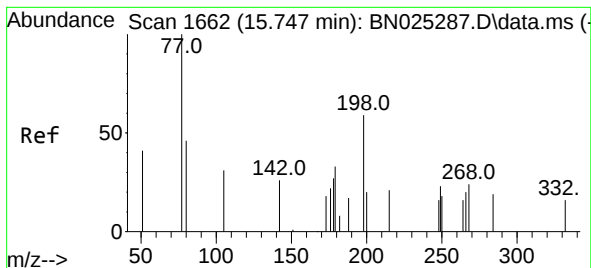
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.7 8.0 12.0#

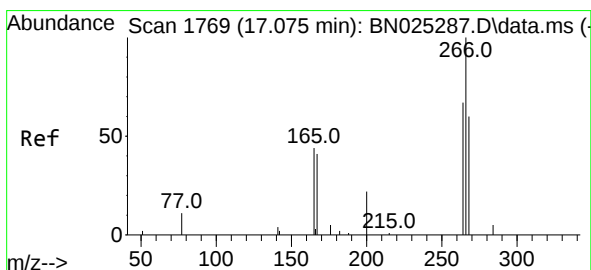
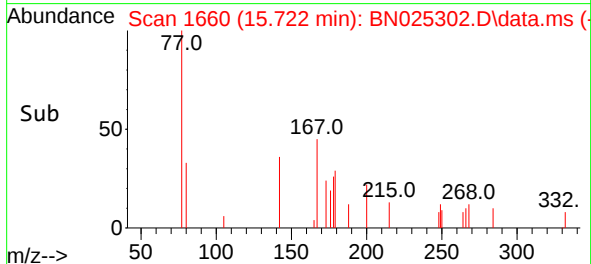
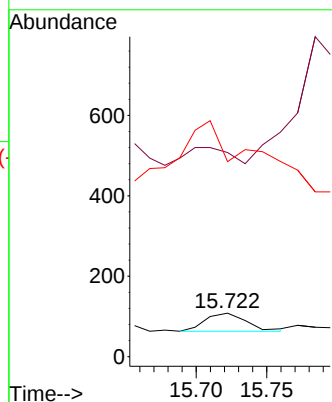
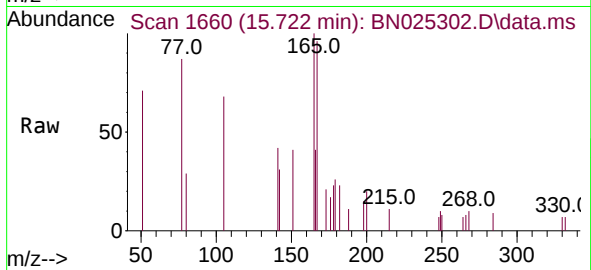




#20
4,6-Dinitro-2-methylphenol
Concen: 0.294 ng
RT: 15.722 min Scan# 1660
Delta R.T. -0.025 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

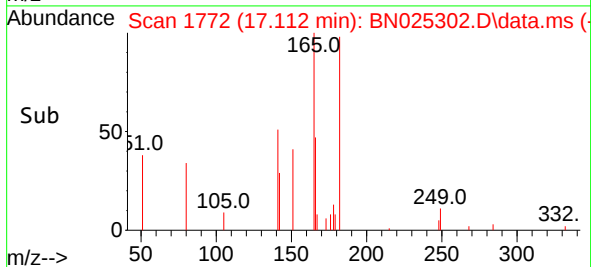
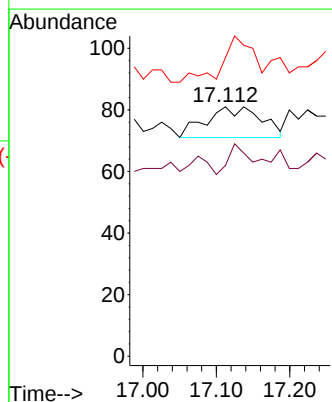
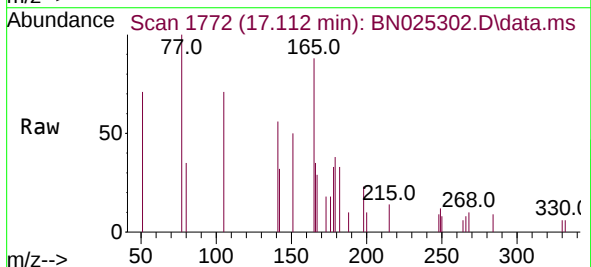
Instrument :
BNA_N
ClientSampleId :
ZONE-B-3-6-05012023

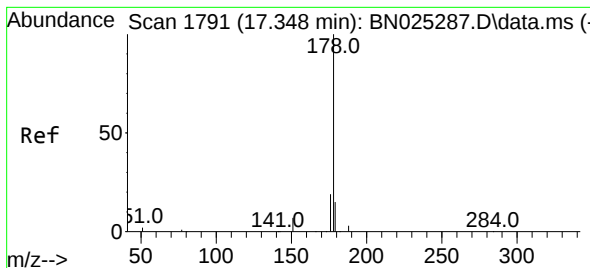
Tgt Ion:198 Resp: 92
Ion Ratio Lower Upper
198 100
51 470.4 162.1 243.1#
105 449.1 83.1 124.7#



#24
Pentachlorophenol
Concen: 0.273 ng
RT: 17.112 min Scan# 1772
Delta R.T. 0.037 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Tgt Ion:266 Resp: 52
Ion Ratio Lower Upper
266 100
264 34.6 43.0 64.4#
268 92.3 47.4 71.2#





#25

Phenanthrene

Concen: 1.497 ng

RT: 17.336 min Scan# 1790

Delta R.T. -0.012 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

Instrument :

BNA_N

ClientSampleId :

ZONE-B-3-6-05012023

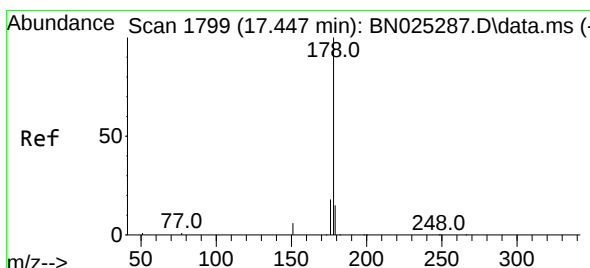
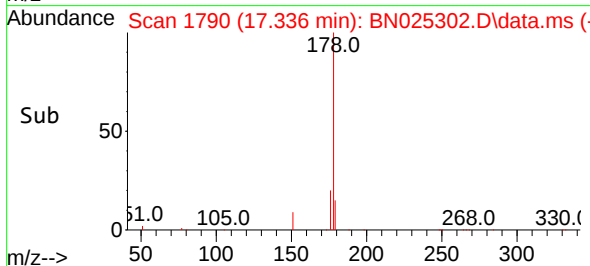
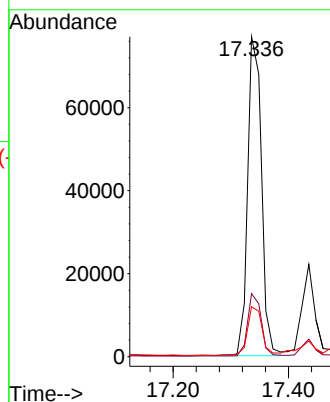
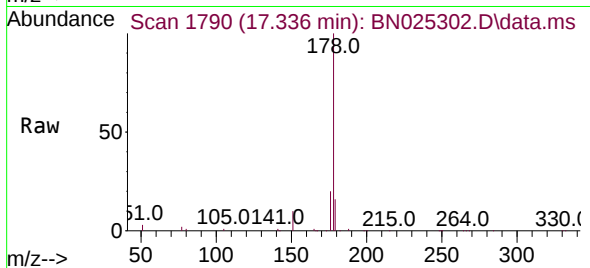
Tgt Ion:178 Resp: 127808

Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 16.3 12.4 18.6



#26

Anthracene

Concen: 0.390 ng

RT: 17.435 min Scan# 1798

Delta R.T. -0.012 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

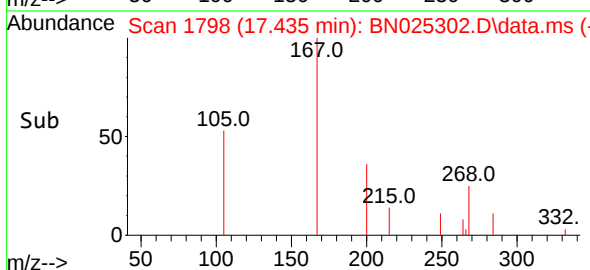
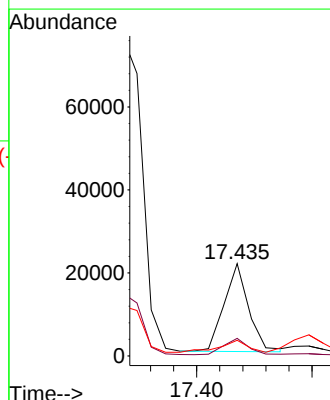
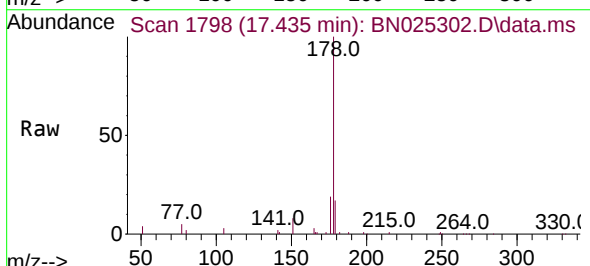
Tgt Ion:178 Resp: 31194

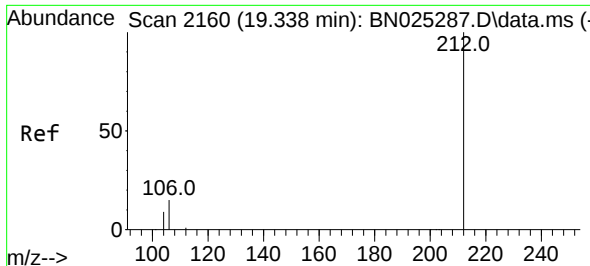
Ion Ratio Lower Upper

178 100

176 18.5 14.9 22.3

179 15.3 12.0 18.0

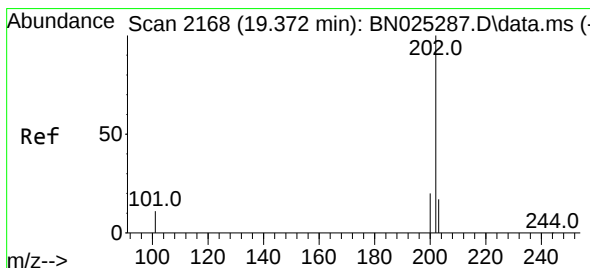
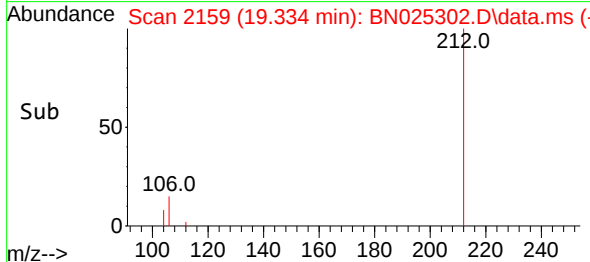
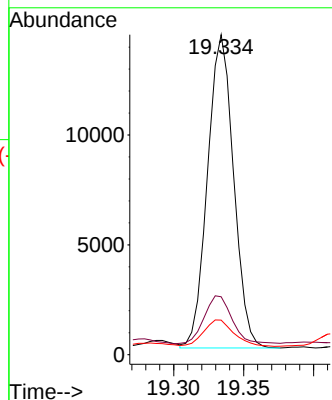
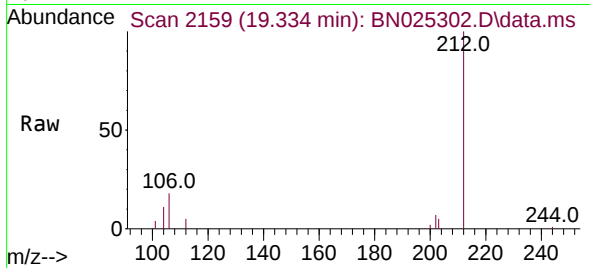




#27
Fluoranthene-d10
Concen: 0.243 ng
RT: 19.334 min Scan# 2159
Delta R.T. -0.004 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

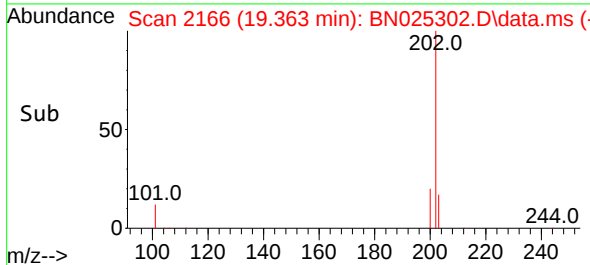
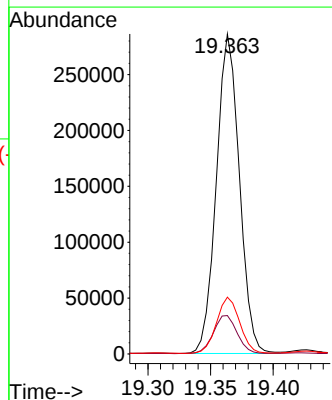
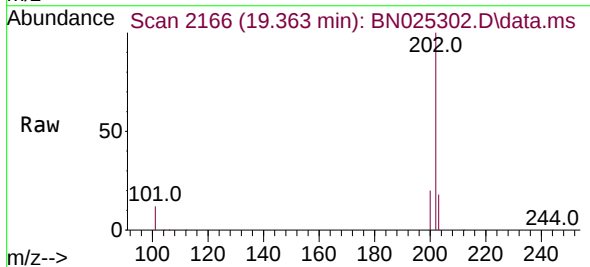
Instrument :
BNA_N
ClientSampleId :
ZONE-B-3-6-05012023

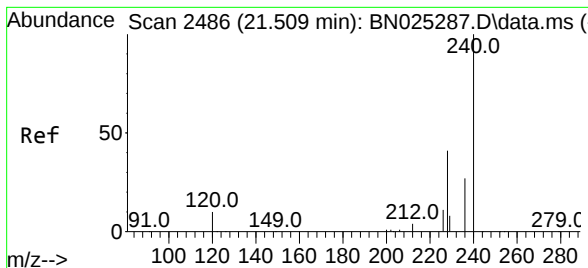
Tgt Ion:212 Resp: 18511
Ion Ratio Lower Upper
212 100
106 16.3 12.6 19.0
104 10.0 7.0 10.6



#28
Fluoranthene
Concen: 3.427 ng
RT: 19.363 min Scan# 2166
Delta R.T. -0.008 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Tgt Ion:202 Resp: 365610
Ion Ratio Lower Upper
202 100
101 12.3 9.8 14.8
203 17.6 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.491 min Scan# 2486

Delta R.T. -0.018 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

Instrument :

BNA_N

ClientSampleId :

ZONE-B-3-6-05012023

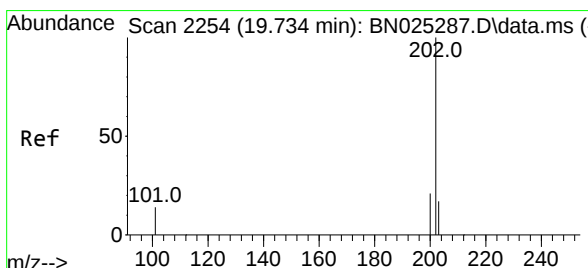
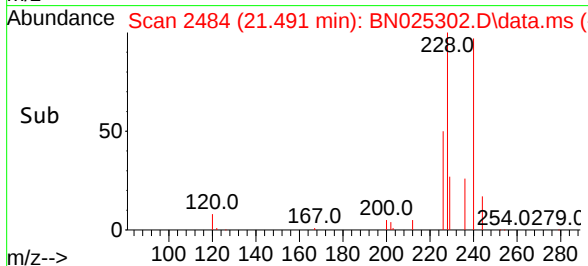
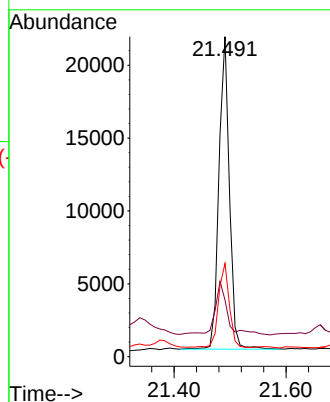
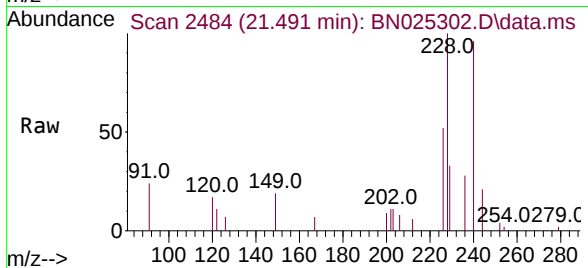
Tgt Ion:240 Resp: 27746

Ion Ratio Lower Upper

240 100

120 17.7 10.3 15.5#

236 29.1 22.3 33.5



#30

Pyrene

Concen: 3.505 ng

RT: 19.726 min Scan# 2252

Delta R.T. -0.008 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

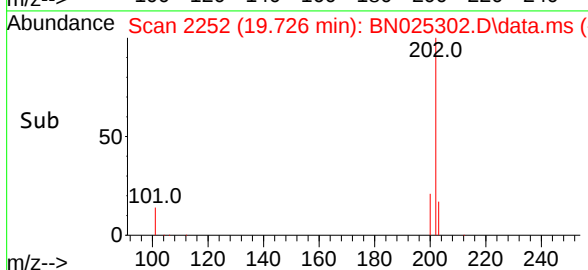
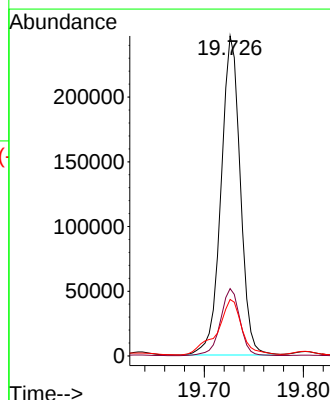
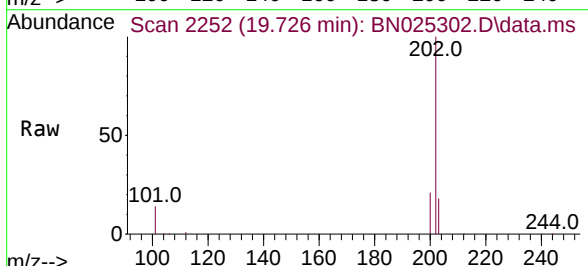
Tgt Ion:202 Resp: 332469

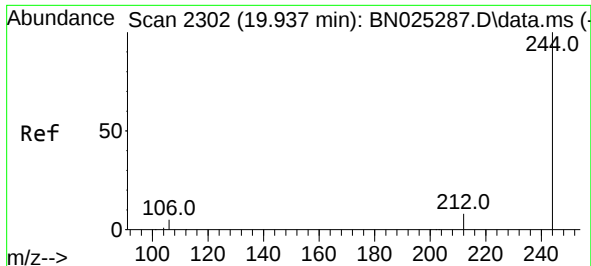
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 22.0 14.4 21.6#

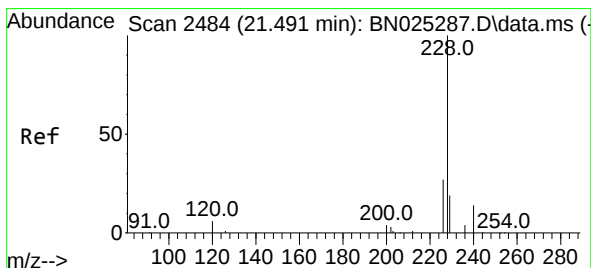
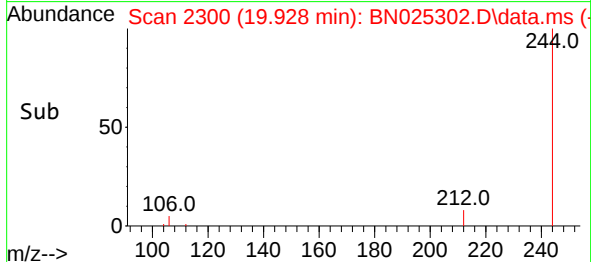
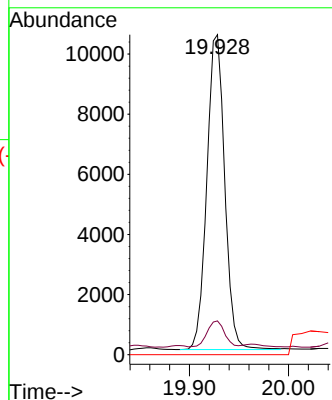
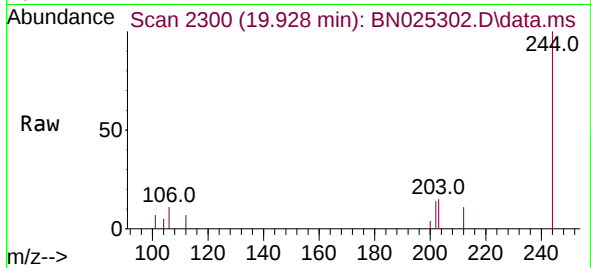




#31
Terphenyl-d14
Concen: 0.235 ng
RT: 19.928 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

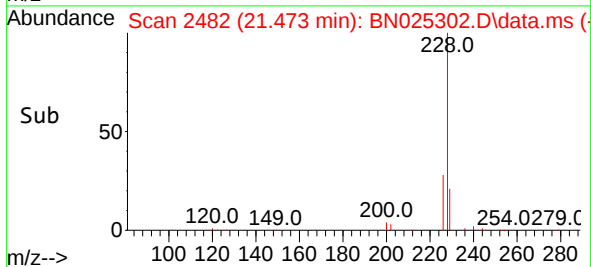
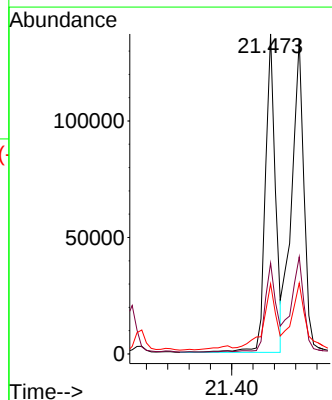
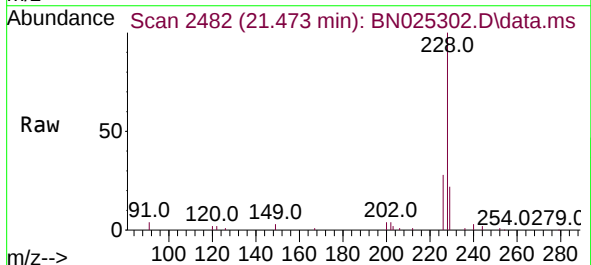
Instrument :
BNA_N
ClientSampleId :
ZONE-B-3-6-05012023

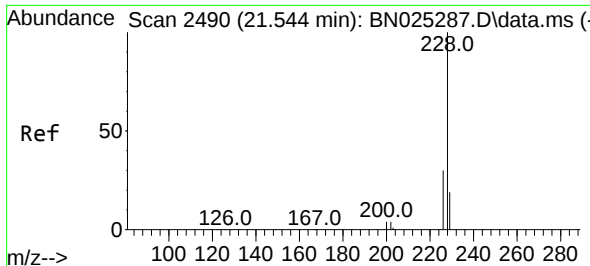
Tgt Ion:244 Resp: 13123
Ion Ratio Lower Upper
244 100
212 10.5 7.1 10.7
122 0.0 0.0 0.0



#32
Benzo(a)anthracene
Concen: 1.911 ng
RT: 21.473 min Scan# 2482
Delta R.T. -0.018 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Tgt Ion:228 Resp: 179198
Ion Ratio Lower Upper
228 100
226 28.4 22.5 33.7
229 21.9 16.2 24.2





#33

Chrysene

Concen: 2.268 ng

RT: 21.527 min Scan# 2488

Delta R.T. -0.018 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

Instrument :

BNA_N

ClientSampleId :

ZONE-B-3-6-05012023

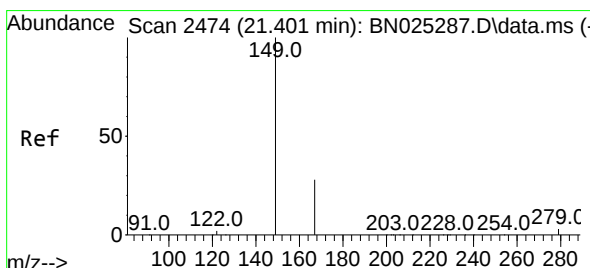
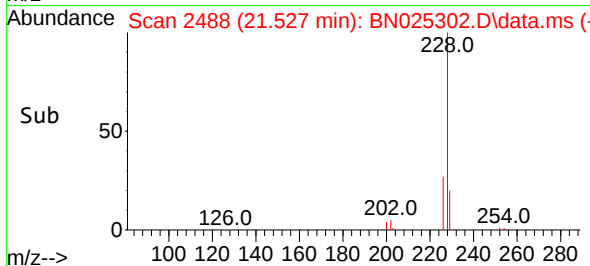
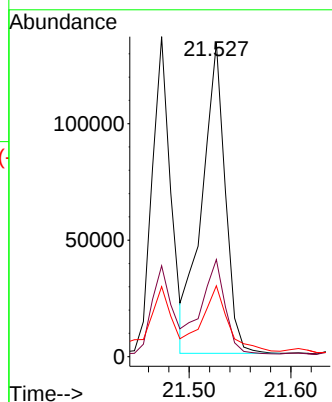
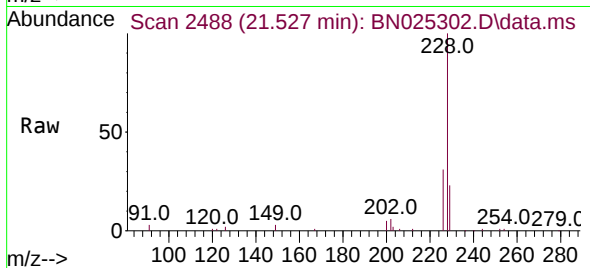
Tgt Ion:228 Resp: 211755

Ion Ratio Lower Upper

228 100

226 30.9 24.6 36.8

229 22.6 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.482 ng

RT: 21.383 min Scan# 2472

Delta R.T. -0.018 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

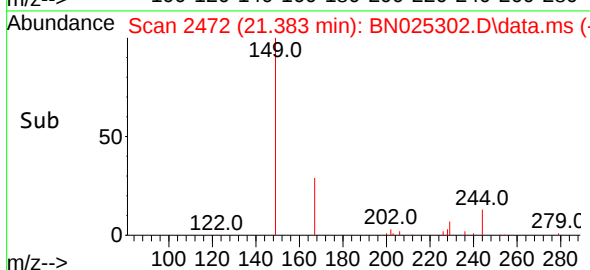
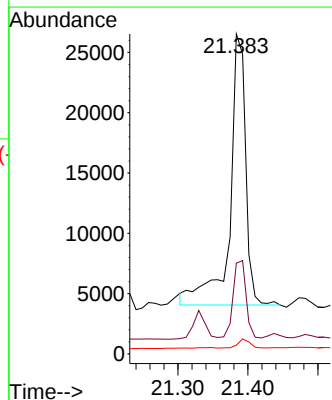
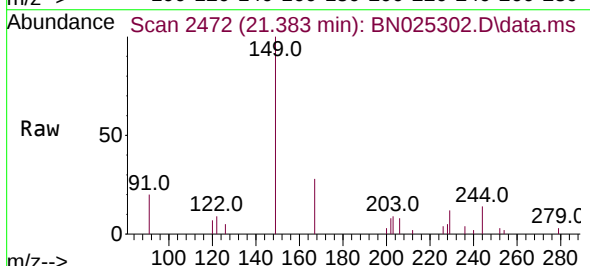
Tgt Ion:149 Resp: 35495

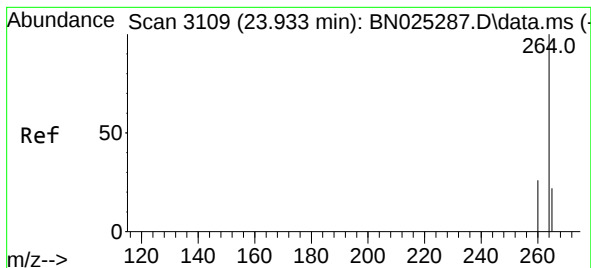
Ion Ratio Lower Upper

149 100

167 23.1 22.2 33.4

279 2.5 2.6 4.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.916 min Scan# 3103

Delta R.T. -0.017 min

Lab File: BN025302.D

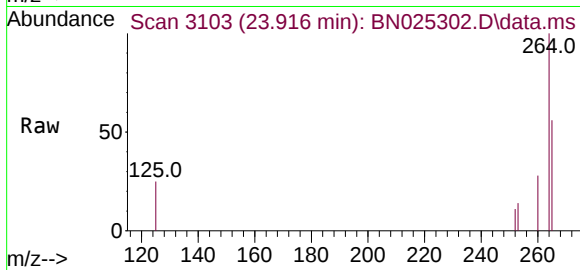
Acq: 06 May 2023 05:49

Instrument :

BNA_N

ClientSampleId :

ZONE-B-3-6-05012023



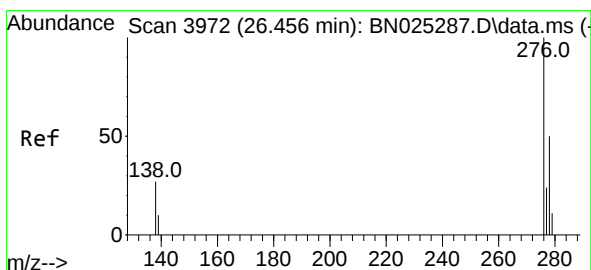
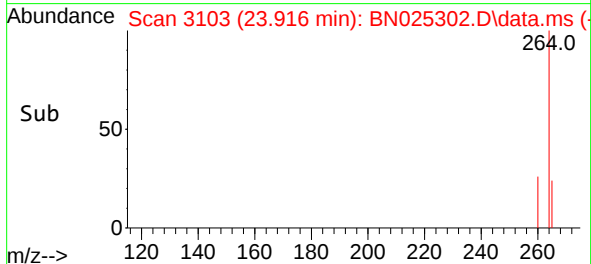
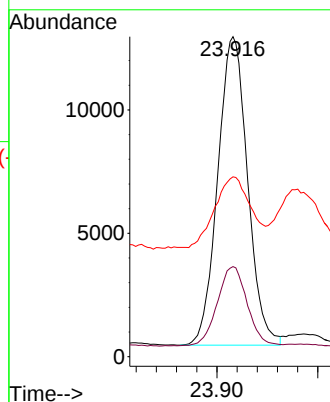
Tgt Ion:264 Resp: 25690

Ion Ratio Lower Upper

264 100

260 28.2 21.5 32.3

265 56.2 46.2 69.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.955 ng

RT: 26.424 min Scan# 3961

Delta R.T. -0.032 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

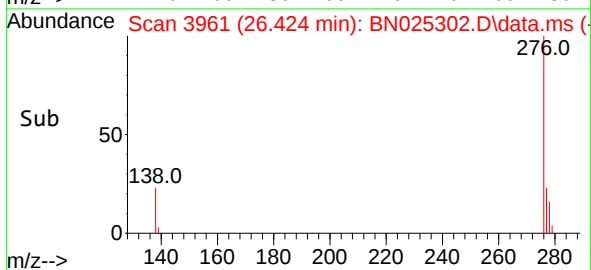
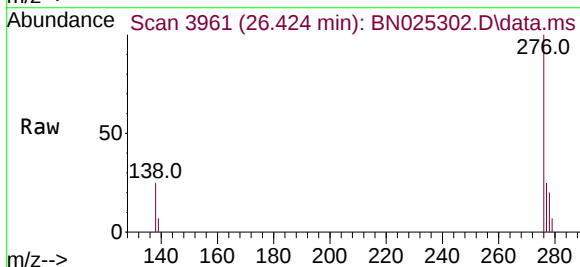
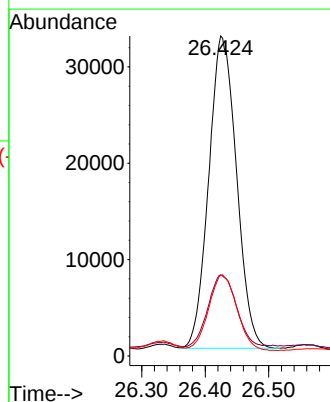
Tgt Ion:276 Resp: 98358

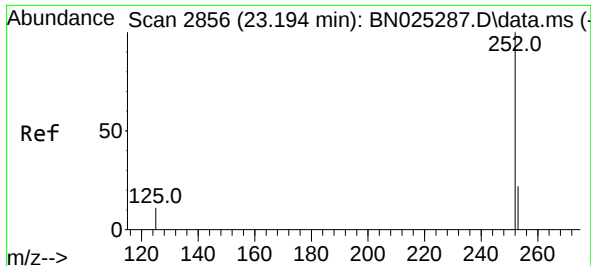
Ion Ratio Lower Upper

276 100

138 23.4 22.5 33.7

277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 3.116 ng

RT: 23.176 min Scan# 21

Delta R.T. -0.017 min

Lab File: BN025302.D

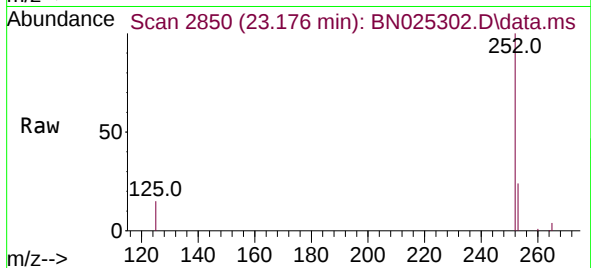
Acq: 06 May 2023 05:49

Instrument :

BNA_N

ClientSampleId :

ZONE-B-3-6-05012023



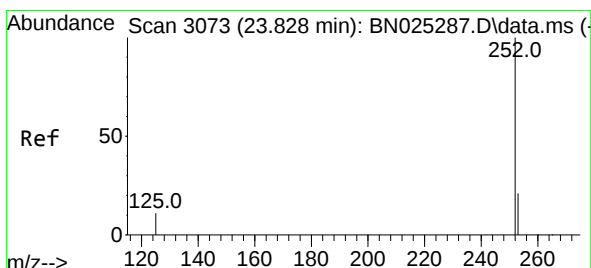
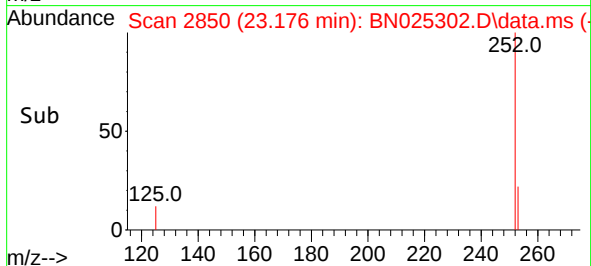
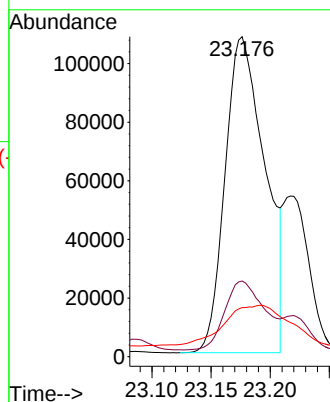
Tgt Ion:252 Resp: 253779

Ion Ratio Lower Upper

252 100

253 23.7 20.8 31.2

125 15.4 13.4 20.2



#39

Benzo(a)pyrene

Concen: 1.912 ng

RT: 23.805 min Scan# 3065

Delta R.T. -0.023 min

Lab File: BN025302.D

Acq: 06 May 2023 05:49

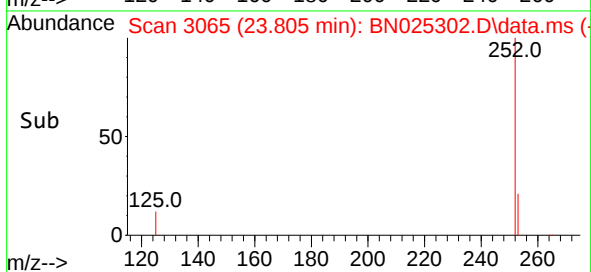
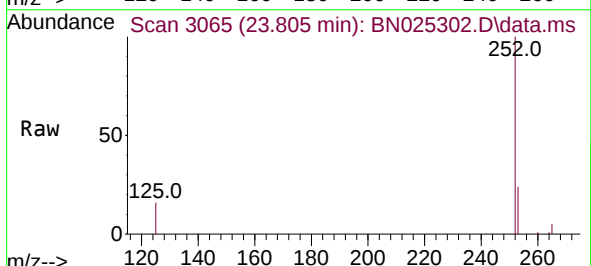
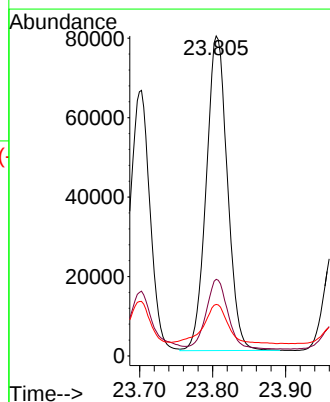
Tgt Ion:252 Resp: 159487

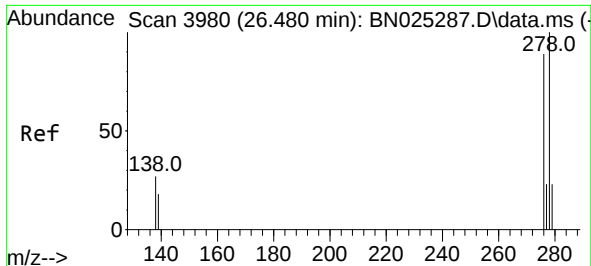
Ion Ratio Lower Upper

252 100

253 23.9 21.4 32.0

125 16.1 15.4 23.2

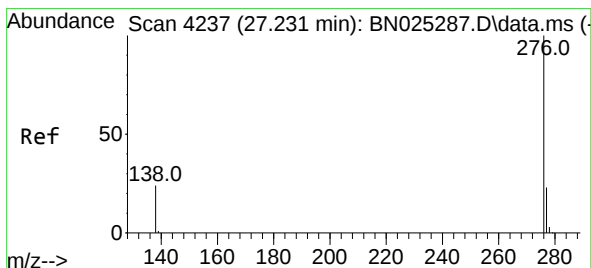
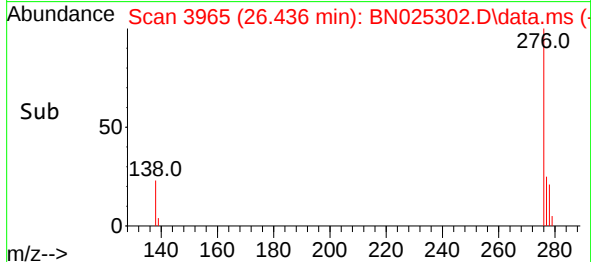
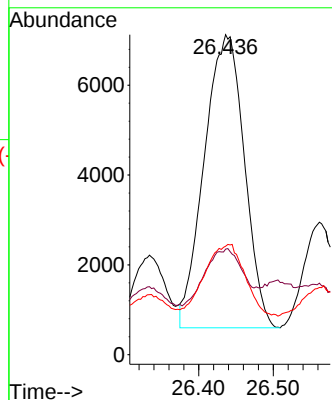
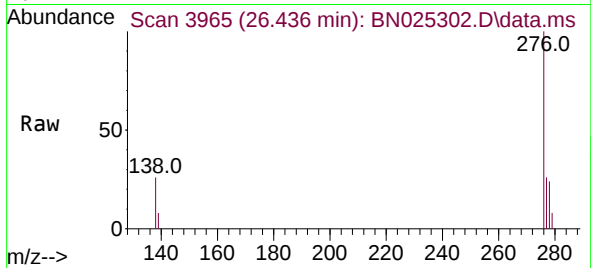




#40
Dibenzo(a,h)anthracene
Concen: 0.300 ng
RT: 26.436 min Scan# 3980
Delta R.T. -0.044 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Instrument :
BNA_N
ClientSampleId :
ZONE-B-3-6-05012023

Tgt Ion:278 Resp: 24372
Ion Ratio Lower Upper
278 100
139 33.0 17.6 26.4#
279 33.9 21.6 32.4#



#41
Benzo(g,h,i)perylene
Concen: 1.083 ng
RT: 27.205 min Scan# 4228
Delta R.T. -0.026 min
Lab File: BN025302.D
Acq: 06 May 2023 05:49

Tgt Ion:276 Resp: 96729
Ion Ratio Lower Upper
276 100
277 24.9 20.1 30.1
138 26.4 21.0 31.6

