

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
 Data File : BN025300.D
 Acq On : 06 May 2023 04:37
 Operator : CG/JU
 Sample : 02588-09
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-A-6-9-05022023

Quant Time: May 08 03:19:52 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)

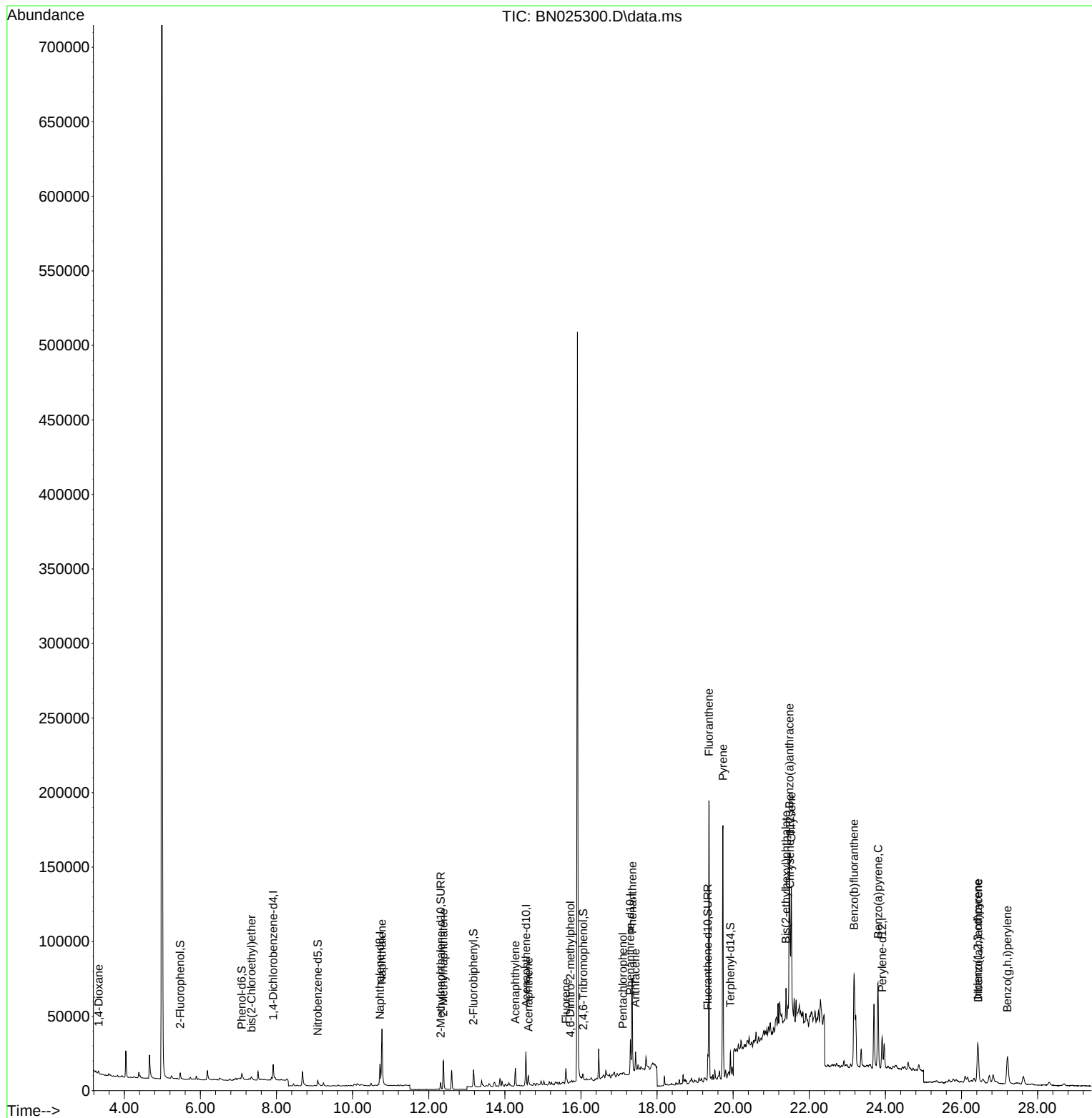
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.911	152	5782	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	18674	0.400	ng	#-0.01
13) Acenaphthene-d10	14.555	164	13054	0.400	ng	0.00
19) Phenanthrene-d10	17.299	188	30218	0.400	ng	#-0.01
29) Chrysene-d12	21.495	240	28655	0.400	ng	#-0.01
35) Perylene-d12	23.914	264	30472	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.470	112	3886	0.276	ng	0.00
5) Phenol-d6	7.088	99	5006	0.283	ng	0.00
8) Nitrobenzene-d5	9.084	82	3652	0.238	ng	-0.01
11) 2-Methylnaphthalene-d10	12.313	152	6874	0.269	ng	0.00
14) 2,4,6-Tribromophenol	16.057	330	2001	0.300	ng	-0.01
15) 2-Fluorobiphenyl	13.176	172	10933	0.244	ng	-0.01
27) Fluoranthene-d10	19.334	212	18515	0.248	ng	0.00
31) Terphenyl-d14	19.928	244	14818	0.256	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.325	88	1125	0.185	ng	# 40
6) bis(2-Chloroethyl)ether	7.341	93	1581	0.102	ng	91
9) Naphthalene	10.771	128	41634	0.869	ng	99
12) 2-Methylnaphthalene	12.385	142	15015	0.443	ng	99
16) Acenaphthylene	14.277	152	12548	0.215	ng	96
17) Acenaphthene	14.619	154	3289	0.090	ng	96
18) Fluorene	15.603	166	6641	0.133	ng	# 92
20) 4,6-Dinitro-2-methylph...	15.722	198	51	0.288	ng	# 1
24) Pentachlorophenol	17.100	266	20	0.269	ng	# 23
25) Phenanthrene	17.348	178	74859	0.895	ng	98
26) Anthracene	17.435	178	13166	0.168	ng	# 96
28) Fluoranthene	19.363	202	165309	1.582	ng	99
30) Pyrene	19.730	202	155876	1.591	ng	# 95
32) Benzo(a)anthracene	21.477	228	86191	0.890	ng	# 89
33) Chrysene	21.531	228	89296	0.926	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.388	149	15090	0.199	ng	# 96
36) Indeno(1,2,3-cd)pyrene	26.429	276	43265	0.354	ng	94
37) Benzo(b)fluoranthene	23.178	252	108658	1.125	ng	# 91
39) Benzo(a)pyrene	23.806	252	83218	0.841	ng	# 94
40) Dibenzo(a,h)anthracene	26.437	278	11880	0.123	ng	# 44
41) Benzo(g,h,i)perylene	27.206	276	42658	0.403	ng	95

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

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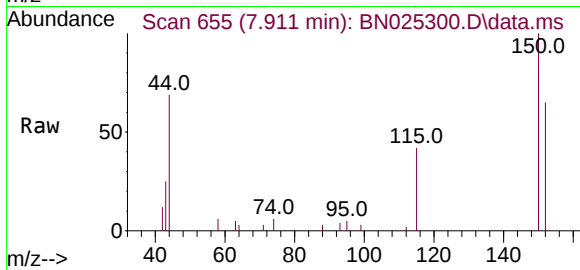
Quant Time: May 08 03:19:52 2023
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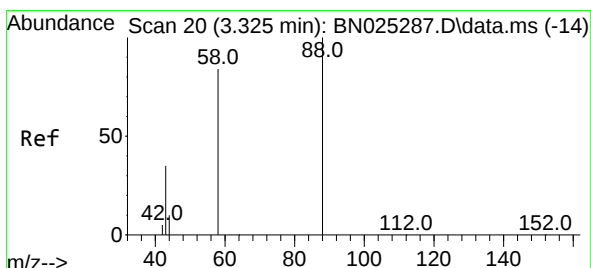
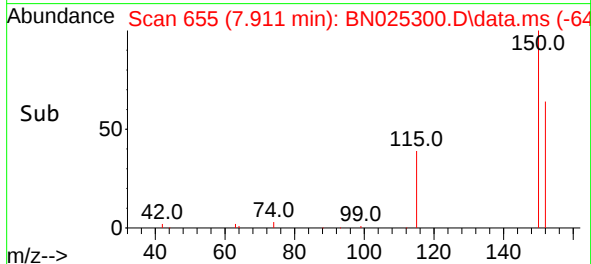
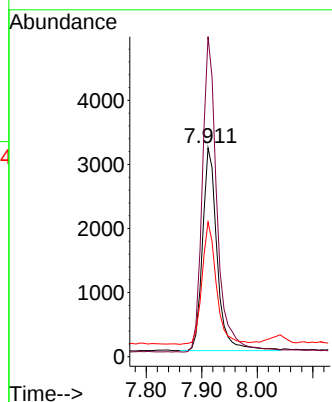
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 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.911 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN025300.D
 Acq: 06 May 2023 04:37

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Tgt Ion:152 Resp: 5782

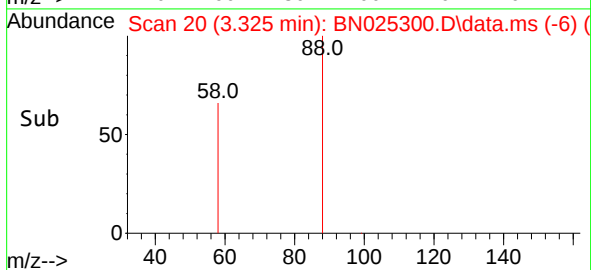
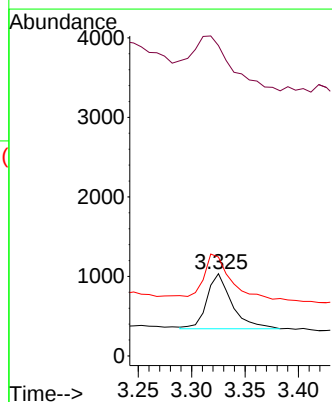
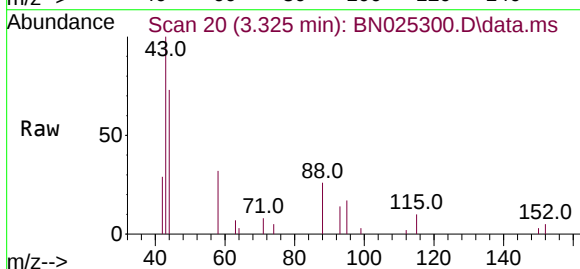
Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.8	185.8
115	64.5	52.9	79.3

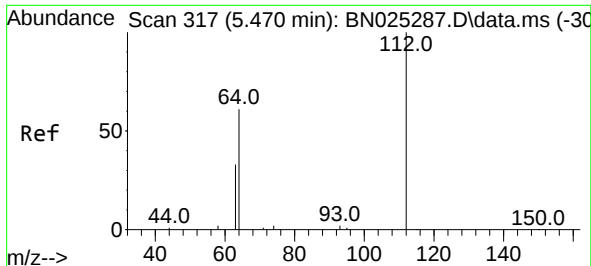


#2
 1,4-Dioxane
 Concen: 0.185 ng
 RT: 3.325 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BN025300.D
 Acq: 06 May 2023 04:37

Tgt Ion: 88 Resp: 1125

Ion	Ratio	Lower	Upper
88	100		
43	156.3	37.2	55.8#
58	84.5	71.5	107.3





#4

2-Fluorophenol

Concen: 0.276 ng

RT: 5.470 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

Instrument :

BNA_N

ClientSampleId :

ZONE-A-6-9-05022023

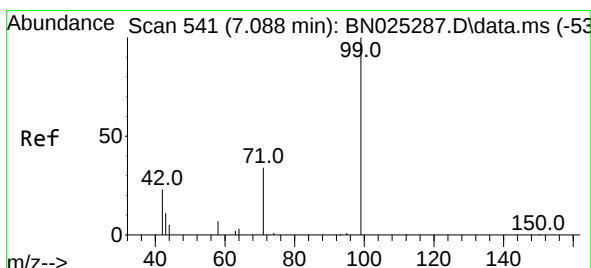
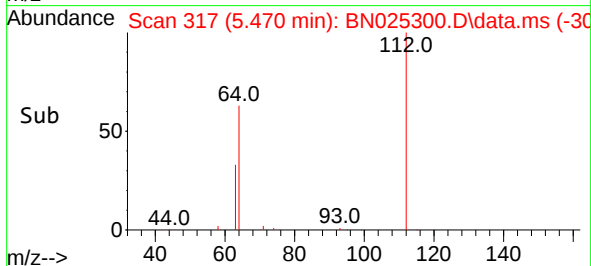
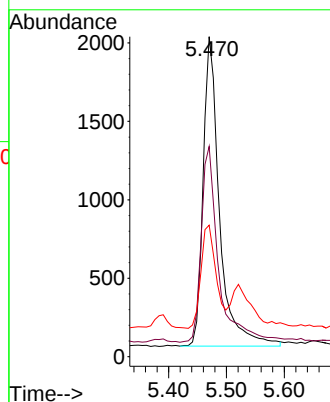
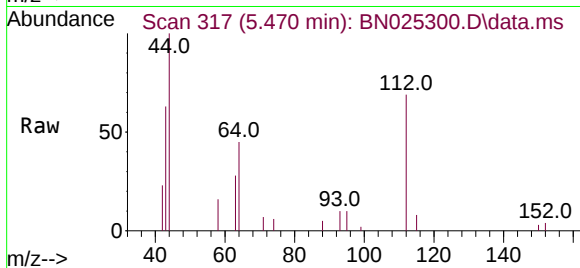
Tgt Ion:112 Resp: 3886

Ion Ratio Lower Upper

112 100

64 67.1 51.5 77.3

63 30.9 27.8 41.6



#5

Phenol-d6

Concen: 0.283 ng

RT: 7.088 min Scan# 541

Delta R.T. 0.000 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

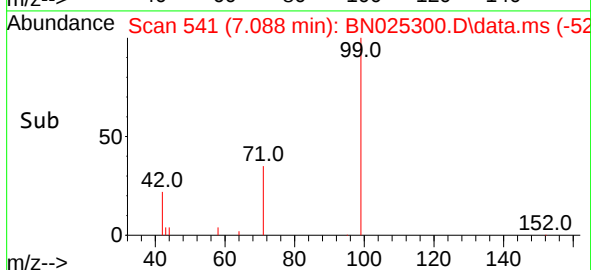
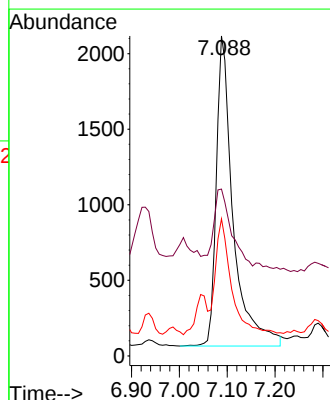
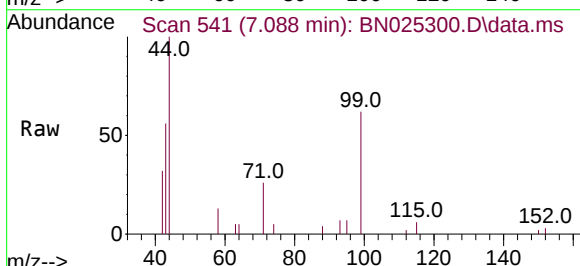
Tgt Ion: 99 Resp: 5006

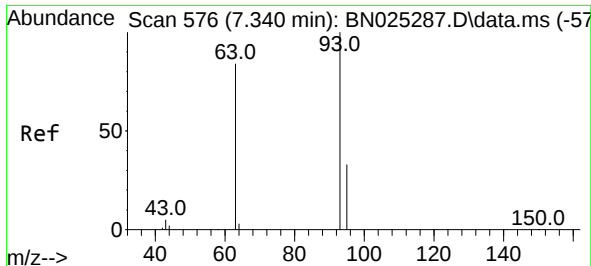
Ion Ratio Lower Upper

99 100

42 24.8 22.0 33.0

71 34.6 28.7 43.1

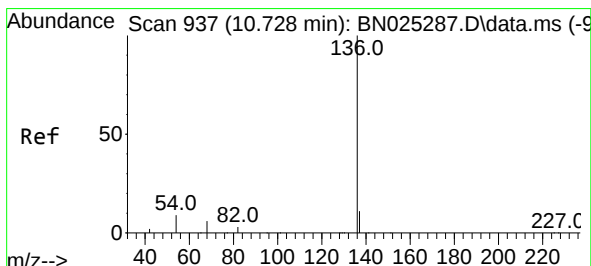
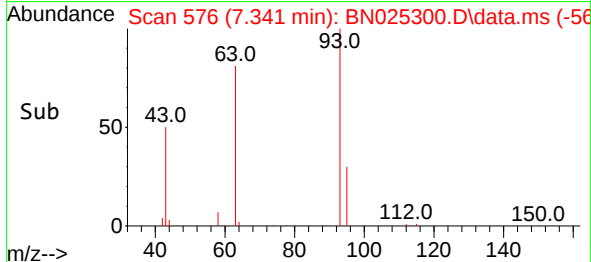
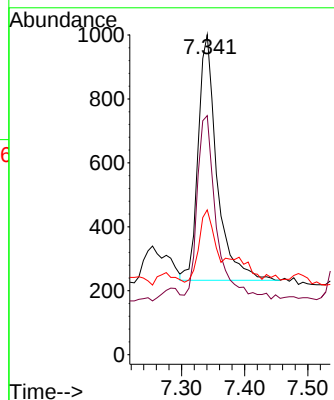
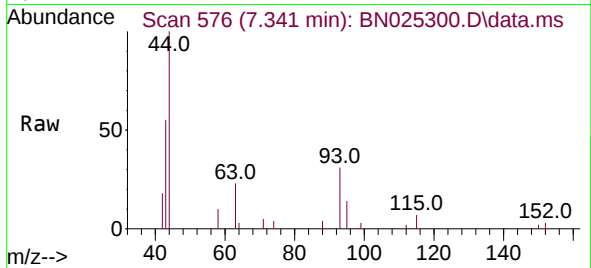




#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 7.341 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

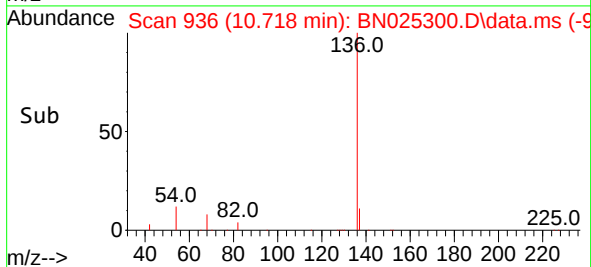
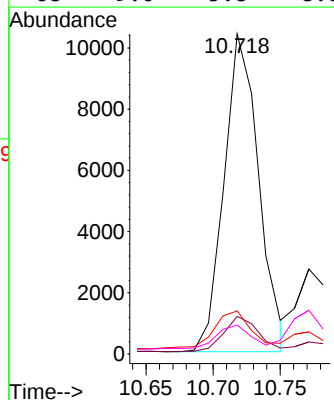
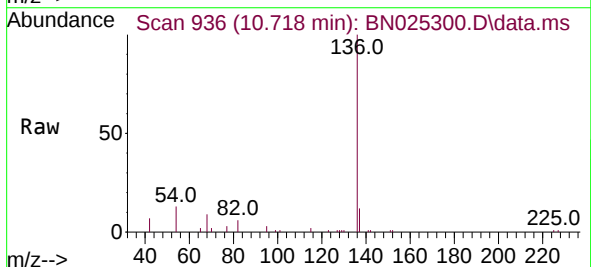
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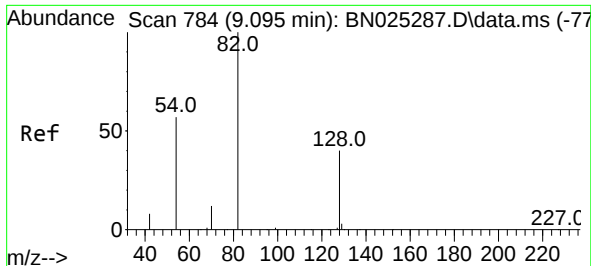
Tgt Ion: 93 Resp: 1581
Ion Ratio Lower Upper
93 100
63 76.3 67.8 101.6
95 29.0 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

Tgt Ion: 136 Resp: 18674
Ion Ratio Lower Upper
136 100
137 11.8 9.4 14.2
54 13.4 8.5 12.7#
68 9.0 5.8 8.8#

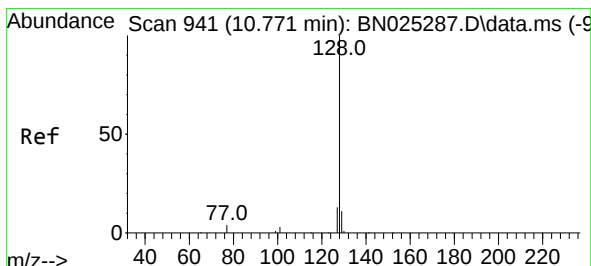
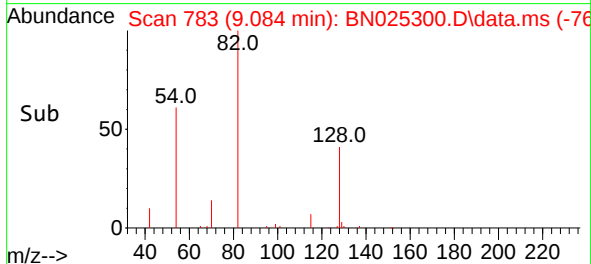
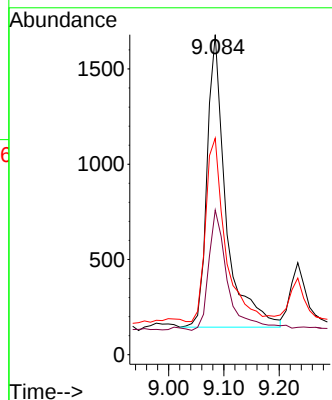
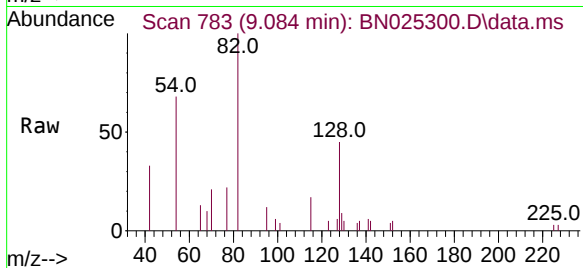




#8
 Nitrobenzene-d5
 Concen: 0.238 ng
 RT: 9.084 min Scan# 784
 Delta R.T. -0.011 min
 Lab File: BN025300.D
 Acq: 06 May 2023 04:37

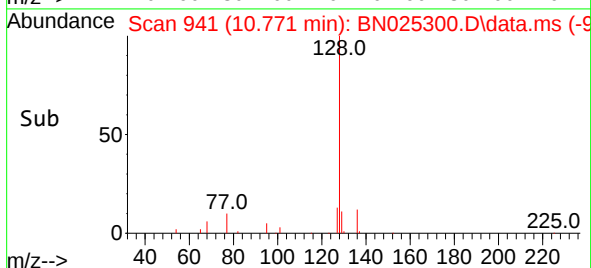
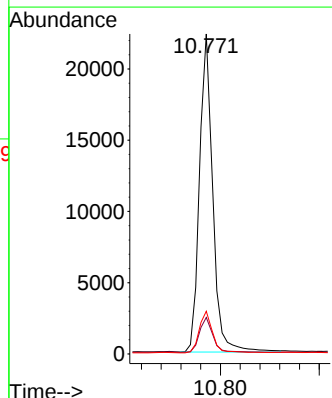
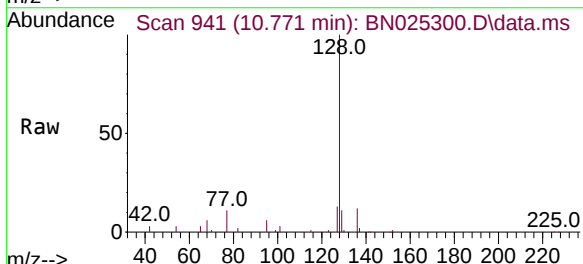
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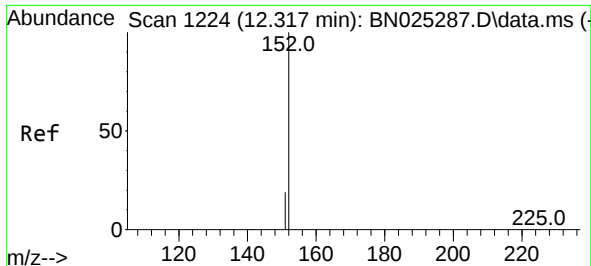
Tgt Ion: 82 Resp: 3652
 Ion Ratio Lower Upper
 82 100
 128 45.2 35.3 52.9
 54 67.7 48.7 73.1



#9
 Naphthalene
 Concen: 0.869 ng
 RT: 10.771 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: BN025300.D
 Acq: 06 May 2023 04:37

Tgt Ion: 128 Resp: 41634
 Ion Ratio Lower Upper
 128 100
 129 11.4 9.4 14.2
 127 13.4 11.0 16.6

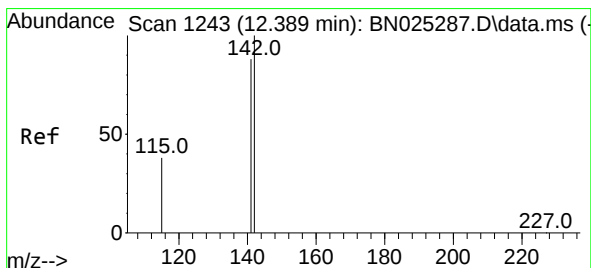
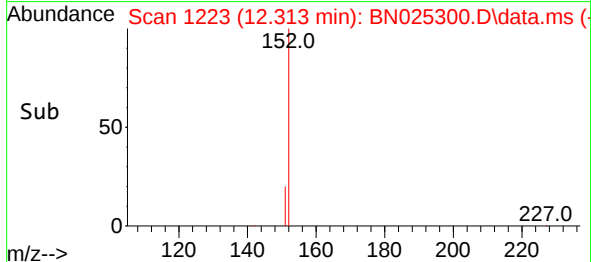
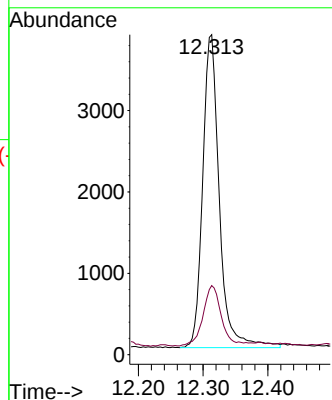
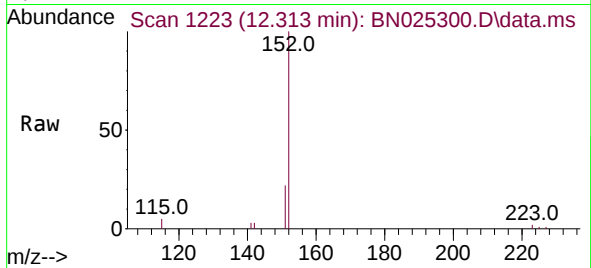




#11
2-Methylnaphthalene-d10
Concen: 0.269 ng
RT: 12.313 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

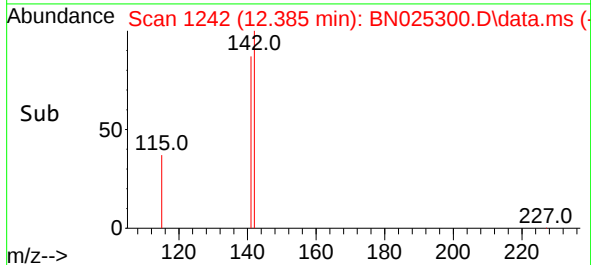
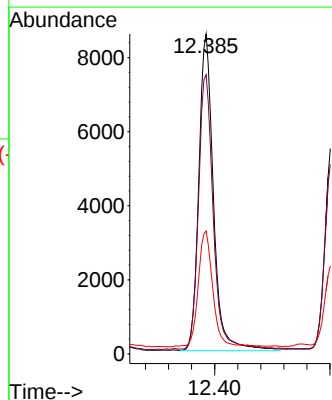
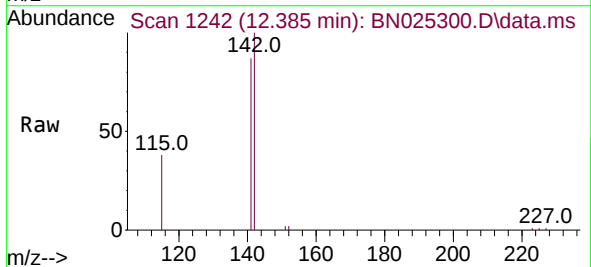
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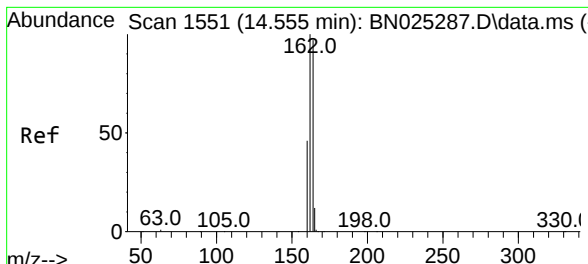
Tgt Ion:152 Resp: 6874
Ion Ratio Lower Upper
152 100
151 21.5 16.4 24.6



#12
2-Methylnaphthalene
Concen: 0.443 ng
RT: 12.385 min Scan# 1242
Delta R.T. -0.004 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

Tgt Ion:142 Resp: 15015
Ion Ratio Lower Upper
142 100
141 87.3 70.5 105.7
115 38.4 31.6 47.4

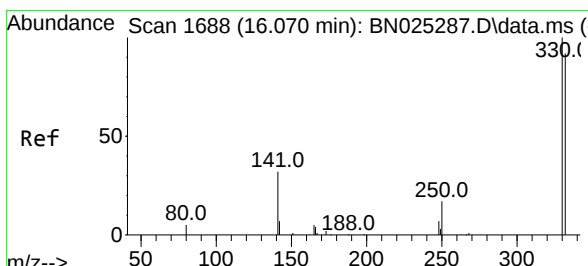
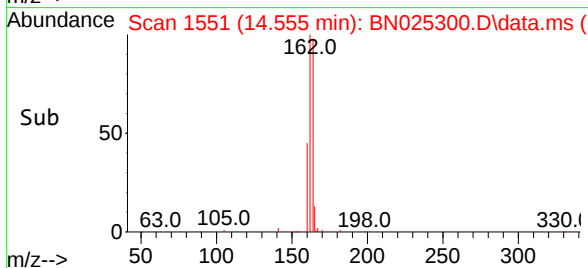
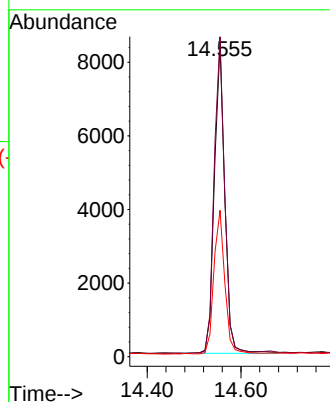
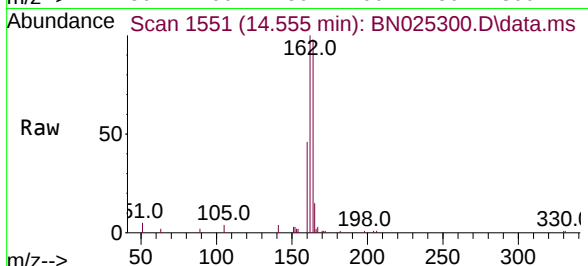




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.555 min Scan# 1551
 Delta R.T. 0.000 min
 Lab File: BN025300.D
 Acq: 06 May 2023 04:37

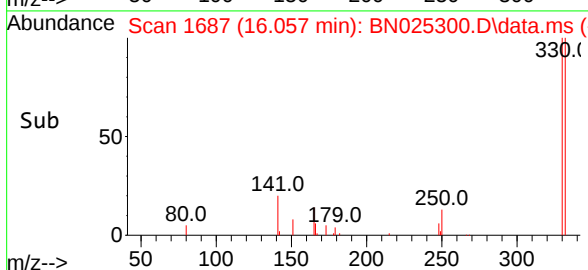
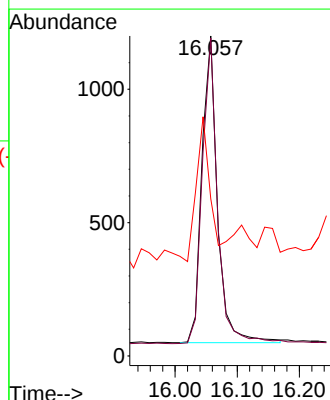
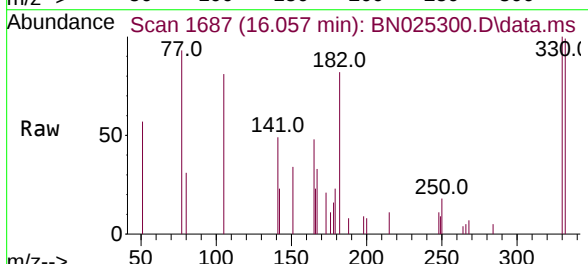
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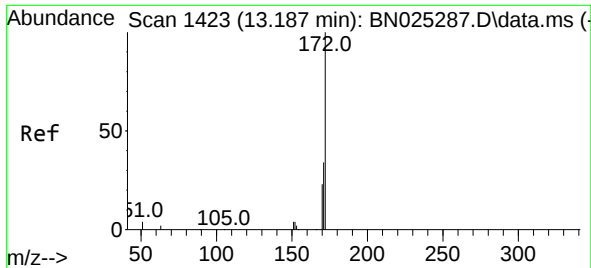
Tgt Ion:	164	Resp:	13054
Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.1	123.1
160	46.7	38.3	57.5



#14
 2,4,6-Tribromophenol
 Concen: 0.300 ng
 RT: 16.057 min Scan# 1687
 Delta R.T. -0.012 min
 Lab File: BN025300.D
 Acq: 06 May 2023 04:37

Tgt Ion:	330	Resp:	2001
Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.4	116.0
141	39.2	28.9	43.3

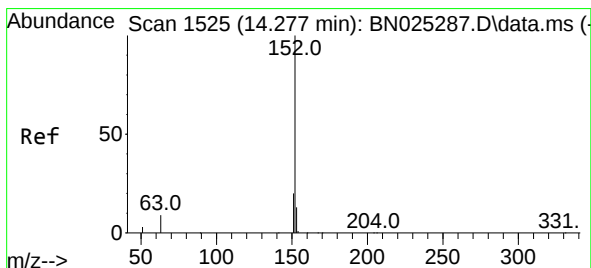
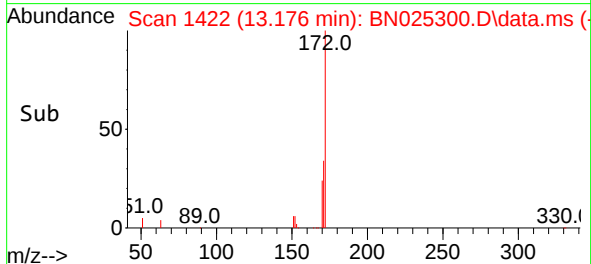
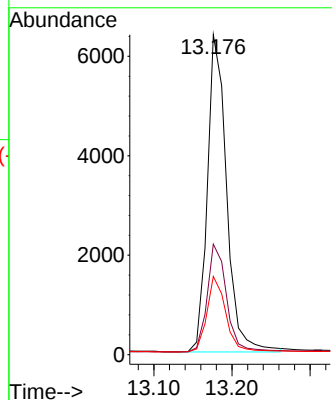
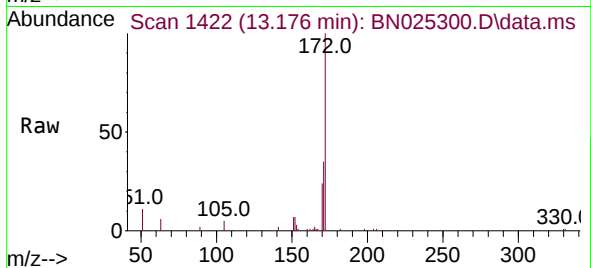




#15
2-Fluorobiphenyl
Concen: 0.244 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.011 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

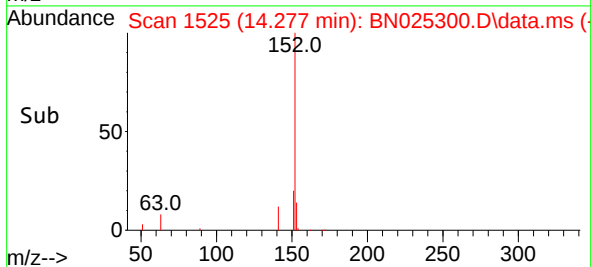
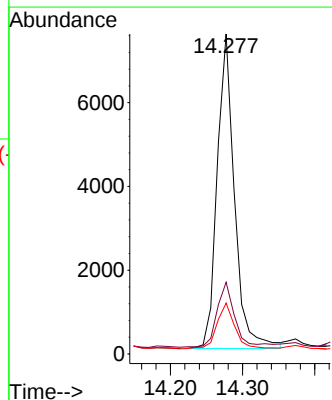
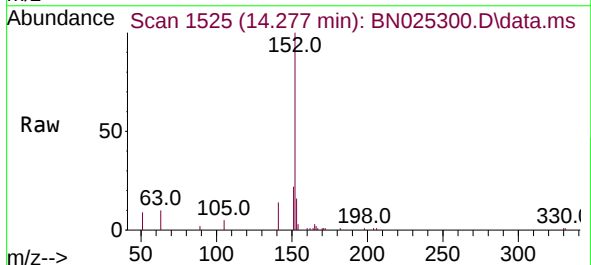
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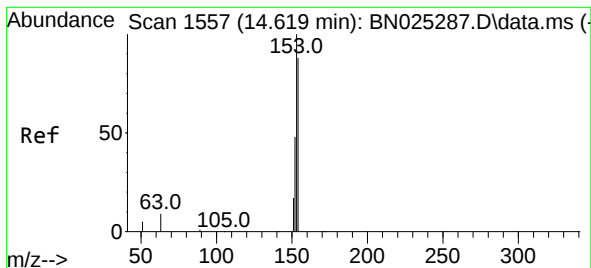
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Ion Ratio	Lower	Upper	
172	100		
171	34.5	27.9	41.9
170	24.4	19.0	28.4



#16
Acenaphthylene
Concen: 0.215 ng
RT: 14.277 min Scan# 1525
Delta R.T. 0.000 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

Tgt Ion:	152	Resp:	12548
Ion Ratio	Lower	Upper	
152	100		
151	21.3	16.1	24.1
153	15.1	10.3	15.5





#17

Acenaphthene

Concen: 0.090 ng

RT: 14.619 min Scan# 1557

Delta R.T. 0.000 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

Instrument :

BNA_N

ClientSampleId :

ZONE-A-6-9-05022023

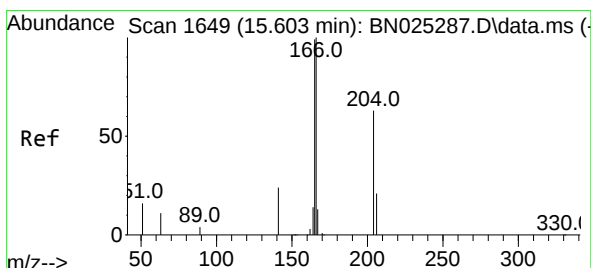
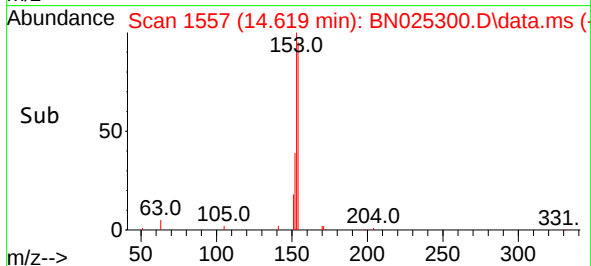
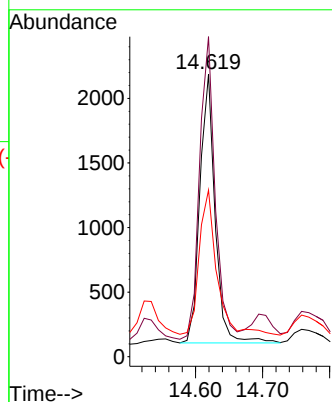
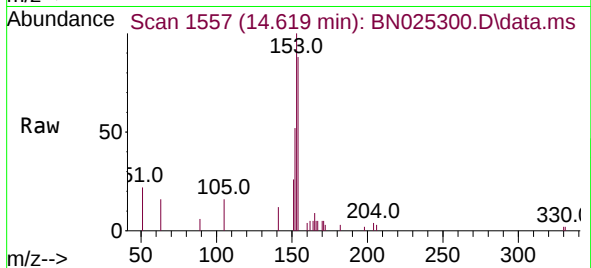
Tgt Ion:154 Resp: 3289

Ion Ratio Lower Upper

154 100

153 114.9 91.3 136.9

152 62.7 44.7 67.1



#18

Fluorene

Concen: 0.133 ng

RT: 15.603 min Scan# 1649

Delta R.T. 0.000 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

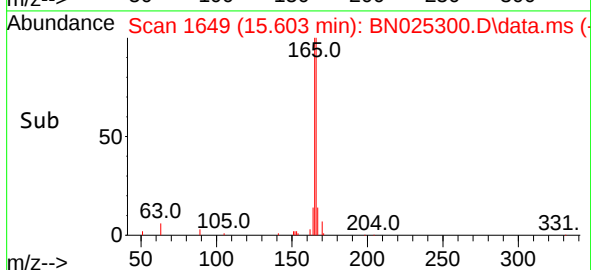
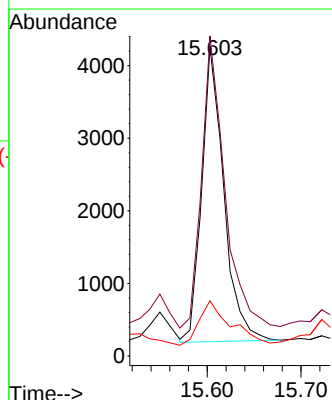
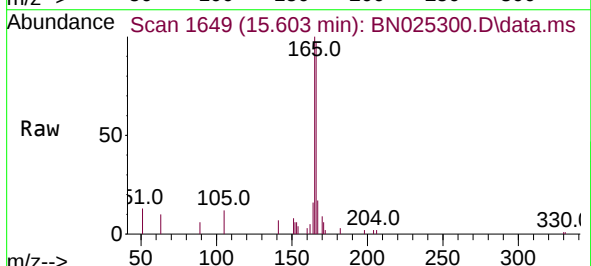
Tgt Ion:166 Resp: 6641

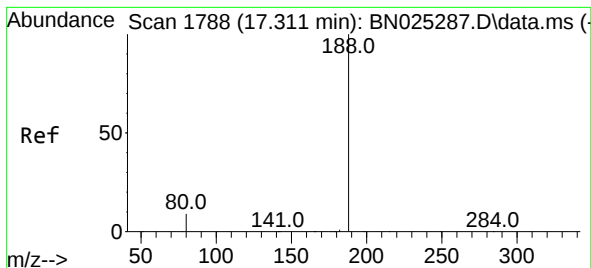
Ion Ratio Lower Upper

166 100

165 105.0 79.0 118.4

167 21.9 10.3 15.5#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.299 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

Instrument :

BNA_N

ClientSampleId :

ZONE-A-6-9-05022023

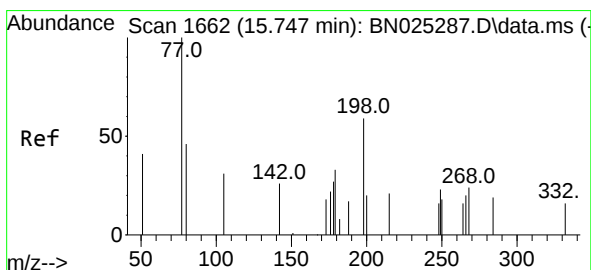
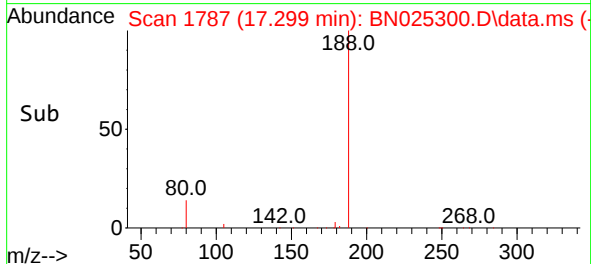
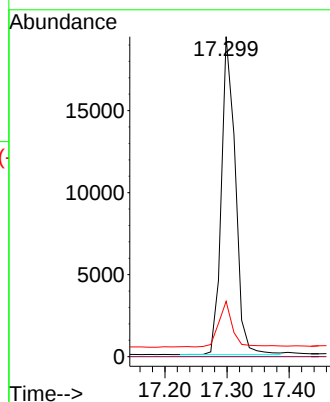
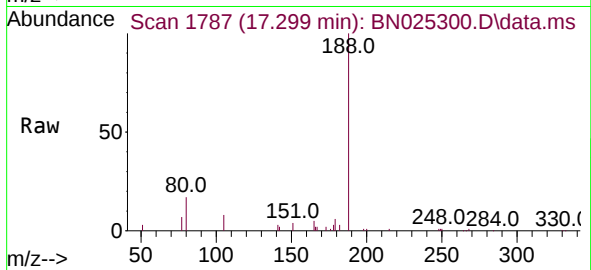
Tgt Ion:188 Resp: 30218

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 17.3 8.0 12.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.288 ng

RT: 15.722 min Scan# 1660

Delta R.T. -0.025 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

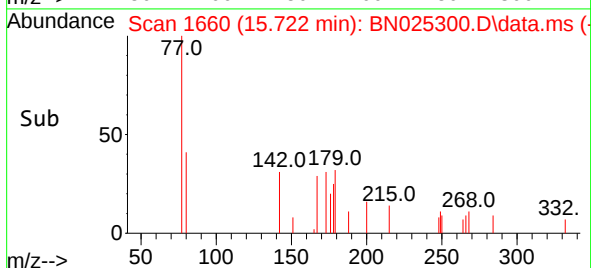
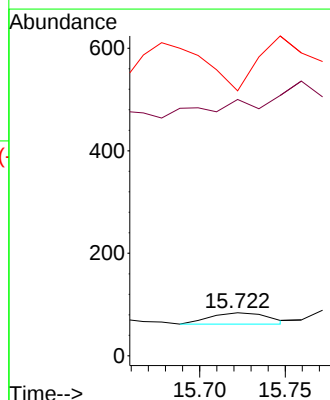
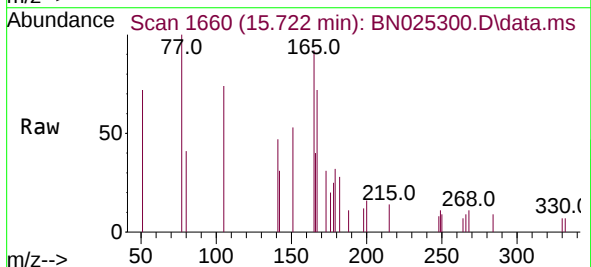
Tgt Ion:198 Resp: 51

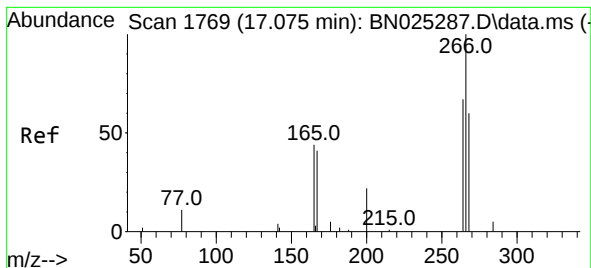
Ion Ratio Lower Upper

198 100

51 595.2 162.1 243.1#

105 615.5 83.1 124.7#





#24

Pentachlorophenol

Concen: 0.269 ng

RT: 17.100 min Scan# 1771

Delta R.T. 0.025 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

Instrument :

BNA_N

ClientSampleId :

ZONE-A-6-9-05022023

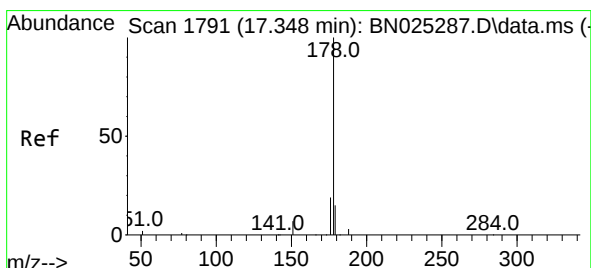
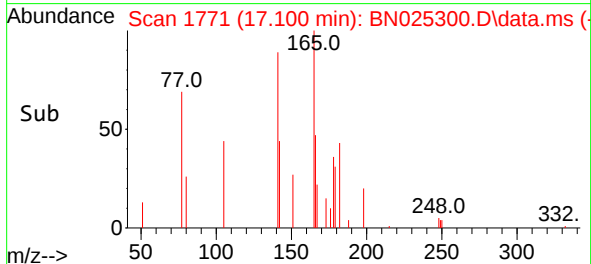
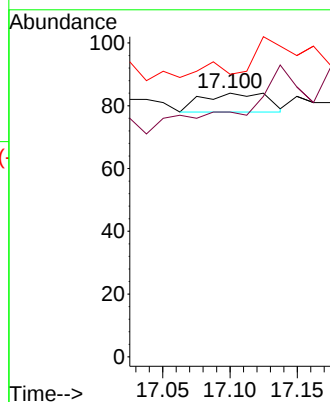
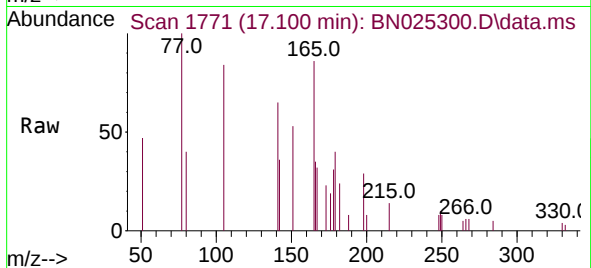
Tgt Ion:266 Resp: 20

Ion Ratio Lower Upper

266 100

264 0.0 43.0 64.4#

268 0.0 47.4 71.2#



#25

Phenanthrene

Concen: 0.895 ng

RT: 17.348 min Scan# 1791

Delta R.T. 0.000 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

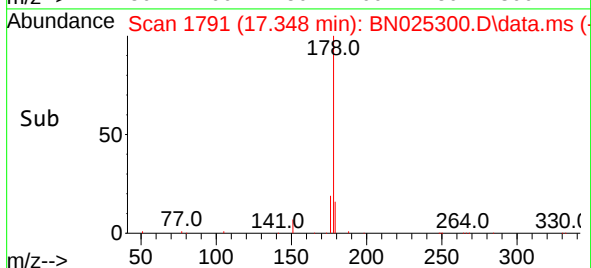
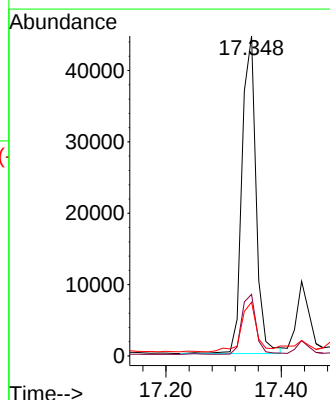
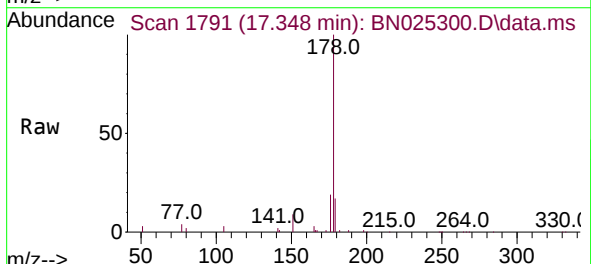
Tgt Ion:178 Resp: 74859

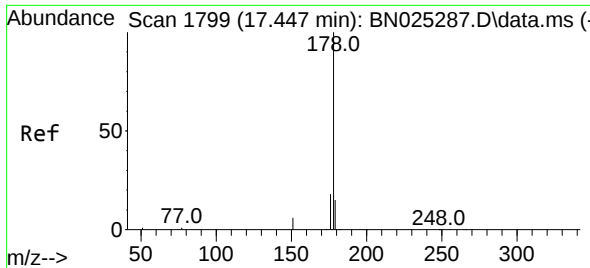
Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 17.1 12.4 18.6

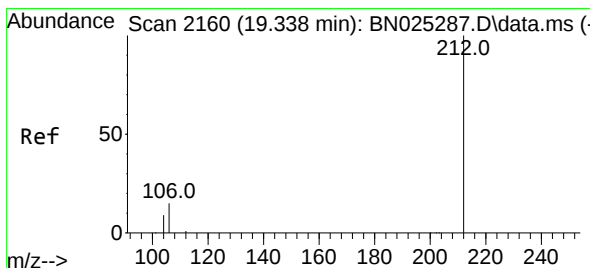
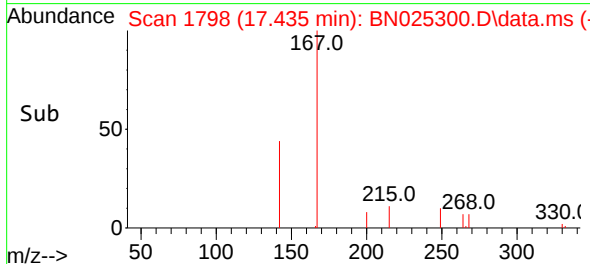
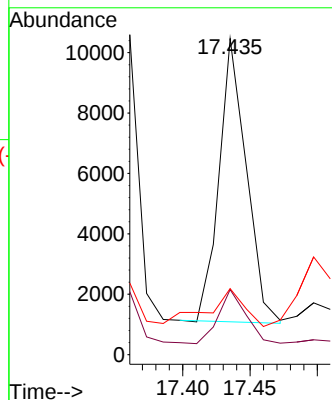
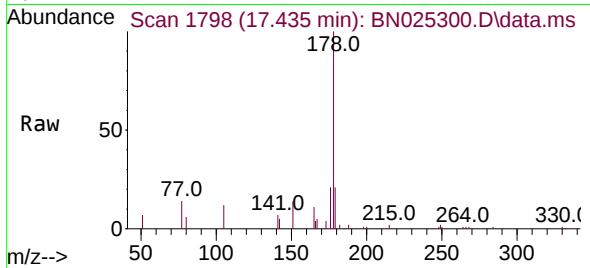




#26
 Anthracene
 Concen: 0.168 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BN025300.D
 Acq: 06 May 2023 04:37

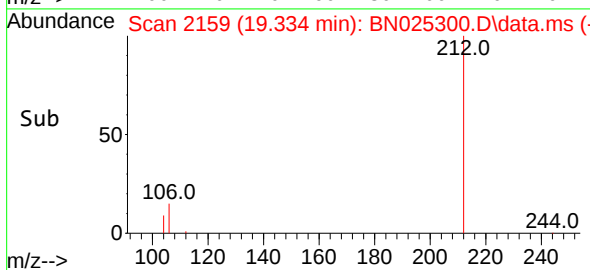
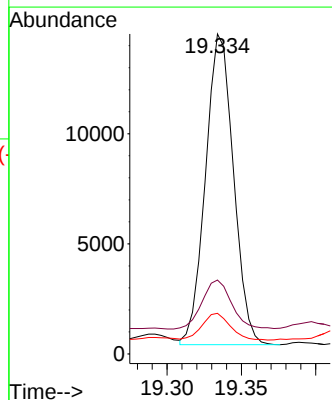
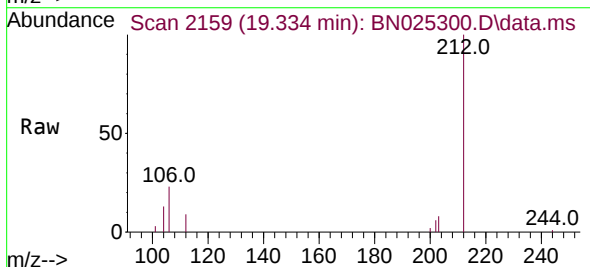
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-A-6-9-05022023

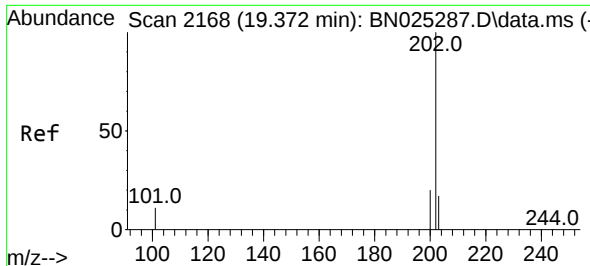
Tgt Ion:178 Resp: 13166
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.9 22.3
 179 18.2 12.0 18.0#



#27
 Fluoranthene-d10
 Concen: 0.248 ng
 RT: 19.334 min Scan# 2159
 Delta R.T. -0.004 min
 Lab File: BN025300.D
 Acq: 06 May 2023 04:37

Tgt Ion:212 Resp: 18515
 Ion Ratio Lower Upper
 212 100
 106 16.6 12.6 19.0
 104 9.0 7.0 10.6

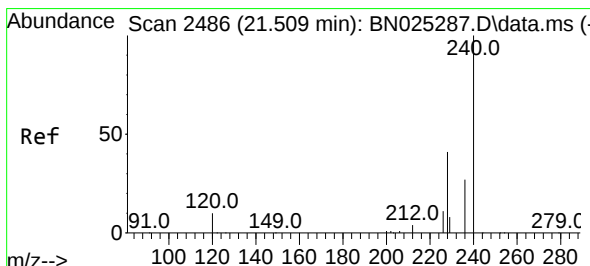
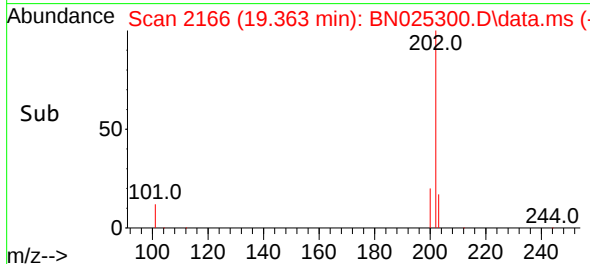
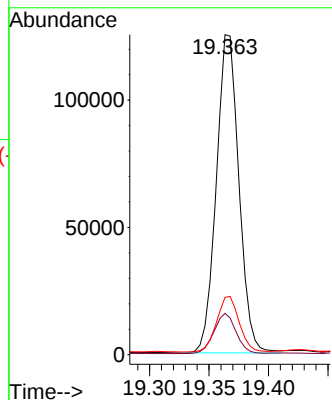
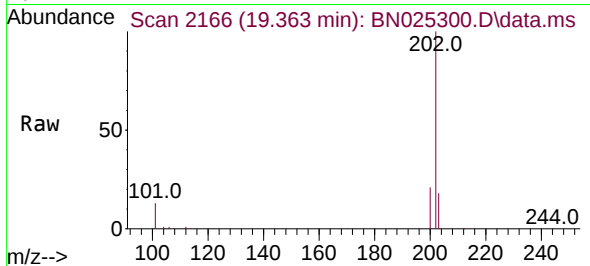




#28
Fluoranthene
Concen: 1.582 ng
RT: 19.363 min Scan# 2166
Delta R.T. -0.008 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

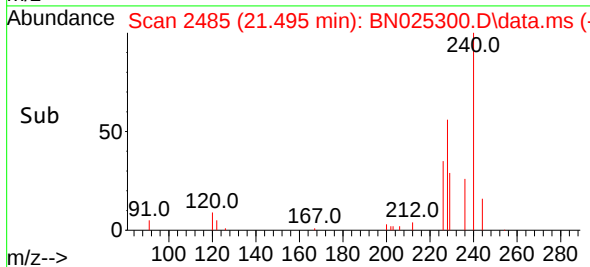
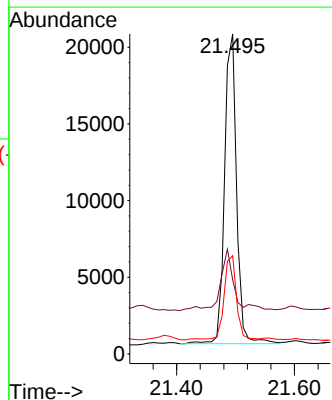
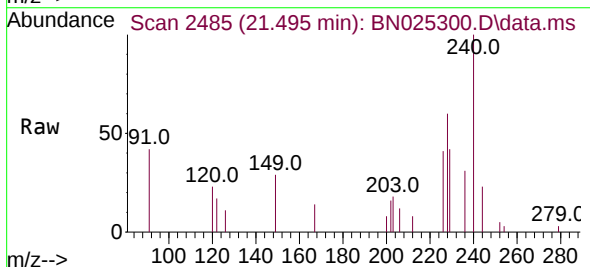
Instrument :
BNA_N
ClientSampleId :
ZONE-A-6-9-05022023

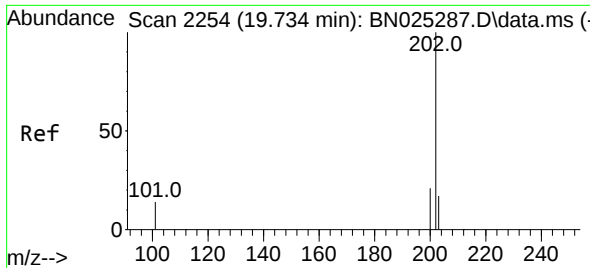
Tgt Ion:202 Resp: 165309
Ion Ratio Lower Upper
202 100
101 12.3 9.8 14.8
203 17.3 13.5 20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.495 min Scan# 2485
Delta R.T. -0.014 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

Tgt Ion:240 Resp: 28655
Ion Ratio Lower Upper
240 100
120 23.2 10.3 15.5#
236 30.7 22.3 33.5

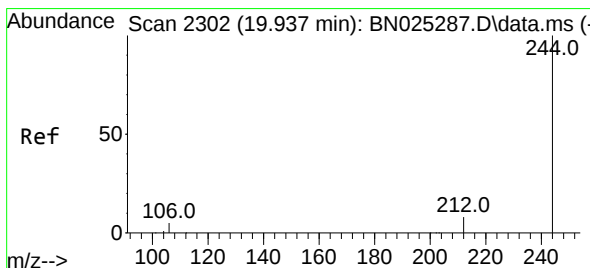
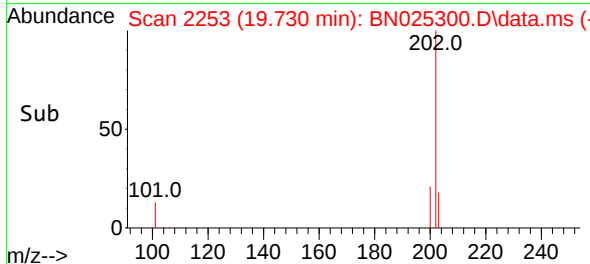
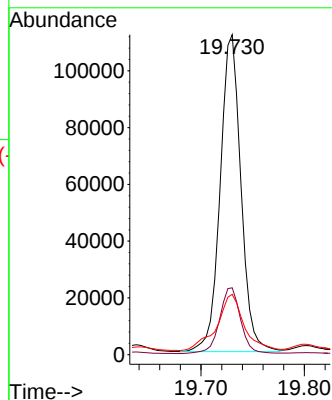
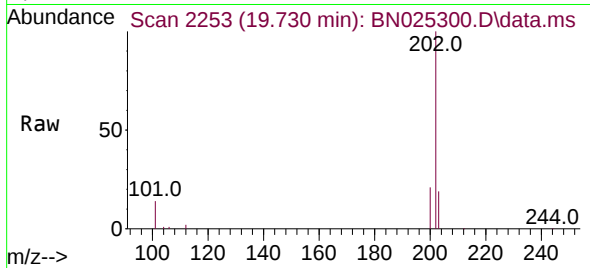




#30
Pyrene
Concen: 1.591 ng
RT: 19.730 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

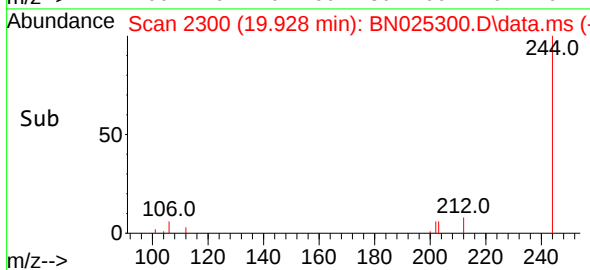
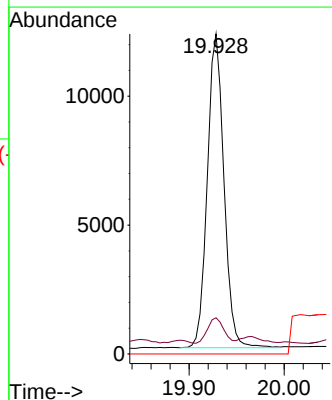
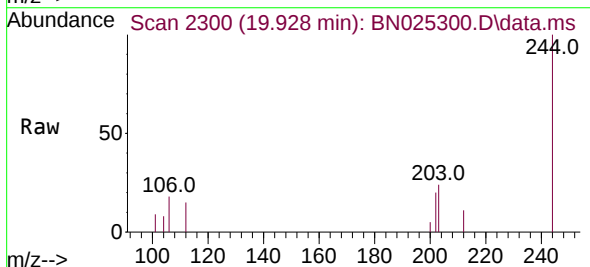
Instrument :
BNA_N
ClientSampleId :
ZONE-A-6-9-05022023

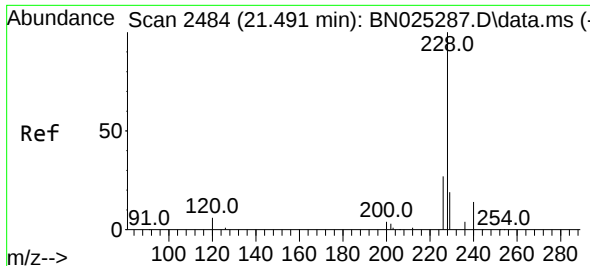
Tgt Ion:202 Resp: 155876
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 23.0 14.4 21.6#



#31
Terphenyl-d14
Concen: 0.256 ng
RT: 19.928 min Scan# 2300
Delta R.T. -0.008 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

Tgt Ion:244 Resp: 14818
Ion Ratio Lower Upper
244 100
212 11.3 7.1 10.7#
122 0.0 0.0 0.0

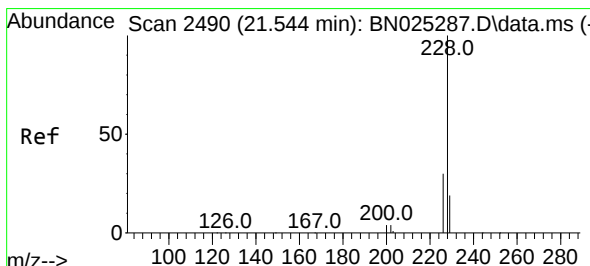
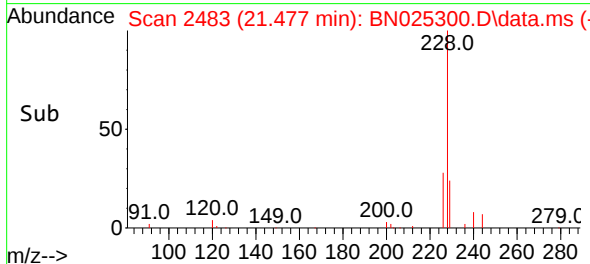
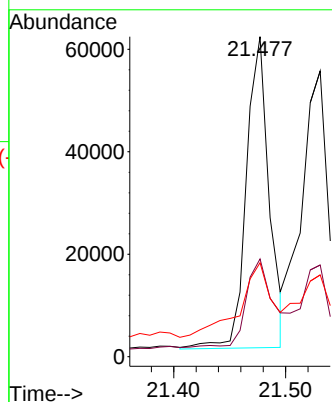
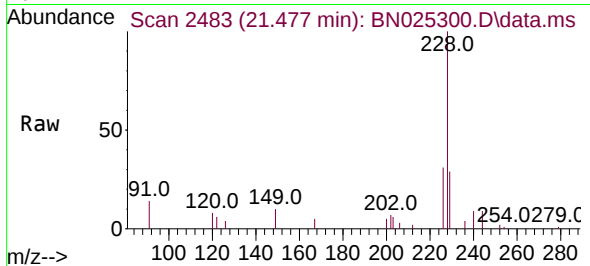




#32
Benzo(a)anthracene
Concen: 0.890 ng
RT: 21.477 min Scan# 2483
Delta R.T. -0.014 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

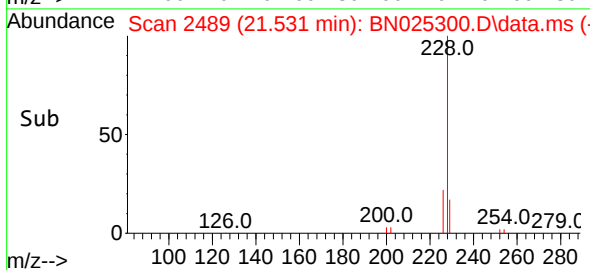
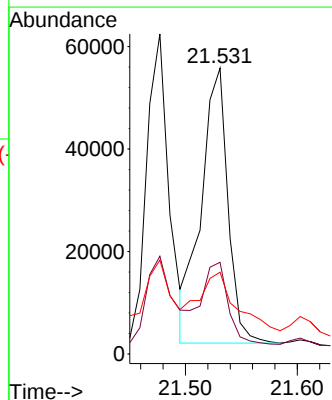
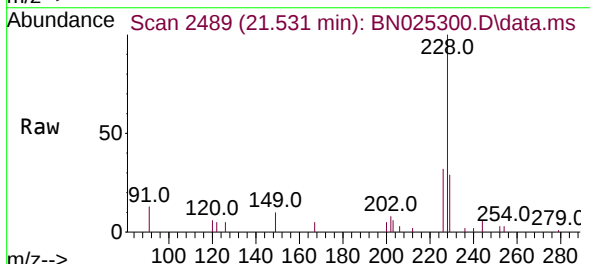
Instrument :
BNA_N
ClientSampleId :
ZONE-A-6-9-05022023

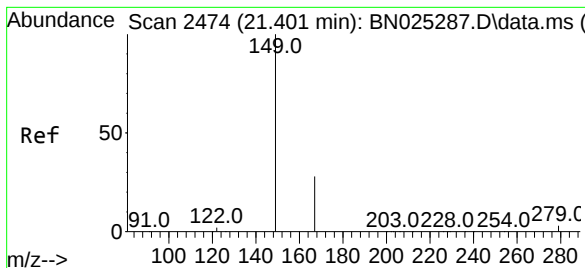
Tgt Ion:228 Resp: 86191
Ion Ratio Lower Upper
228 100
226 30.5 22.5 33.7
229 29.3 16.2 24.2#



#33
Chrysene
Concen: 0.926 ng
RT: 21.531 min Scan# 2489
Delta R.T. -0.014 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

Tgt Ion:228 Resp: 89296
Ion Ratio Lower Upper
228 100
226 32.1 24.6 36.8
229 28.6 16.2 24.4#

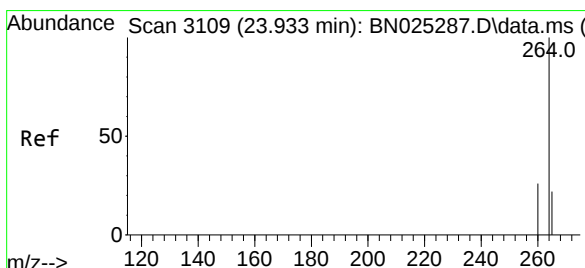
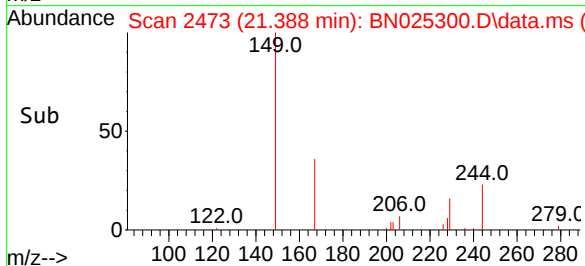
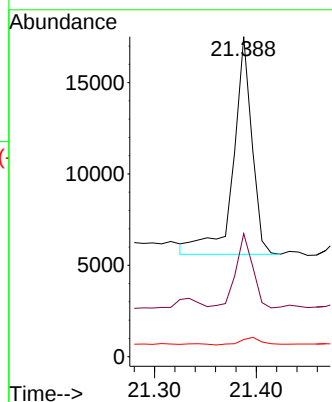
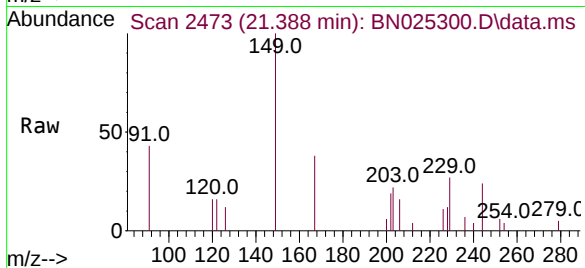




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.199 ng
RT: 21.388 min Scan# 2473
Delta R.T. -0.014 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

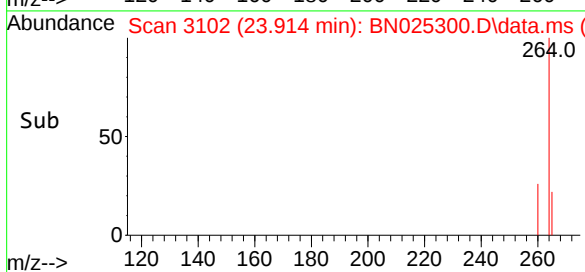
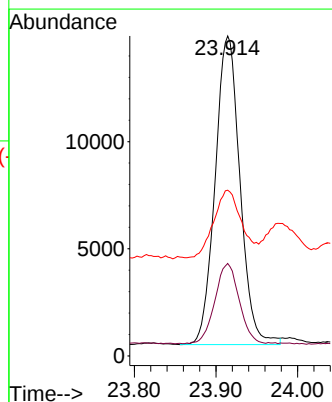
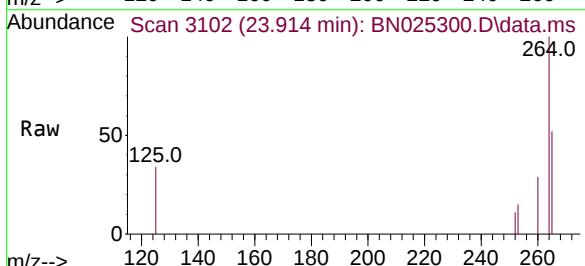
Instrument :
BNA_N
ClientSampleId :
ZONE-A-6-9-05022023

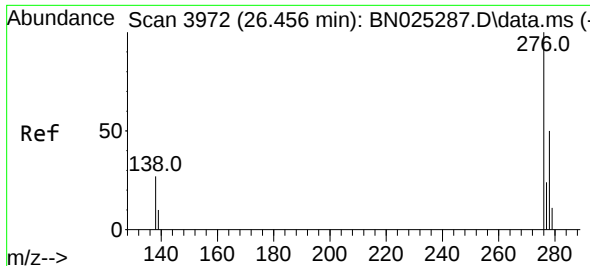
Tgt Ion:149 Resp: 15090
Ion Ratio Lower Upper
149 100
167 30.0 22.2 33.4
279 4.0 2.6 4.0#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.914 min Scan# 3102
Delta R.T. -0.019 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

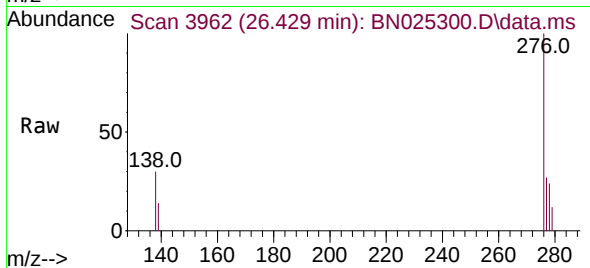
Tgt Ion:264 Resp: 30472
Ion Ratio Lower Upper
264 100
260 28.9 21.5 32.3
265 51.8 46.2 69.4



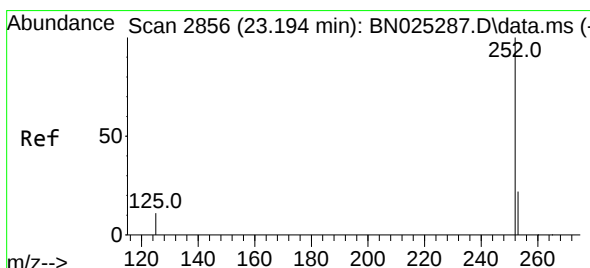
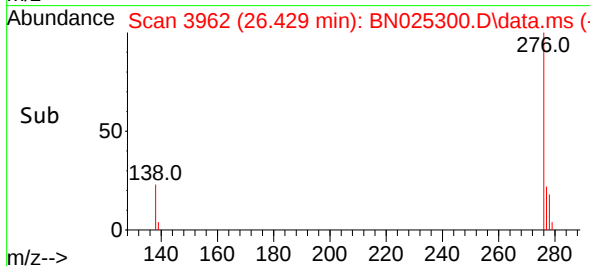
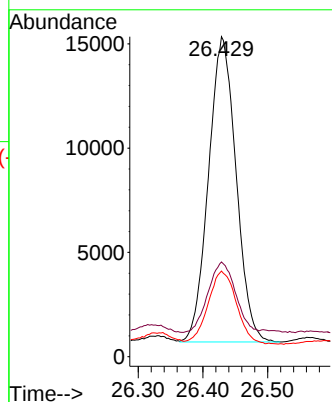


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.354 ng
RT: 26.429 min Scan# 3962
Delta R.T. -0.028 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

Instrument :
BNA_N
ClientSampleId :
ZONE-A-6-9-05022023

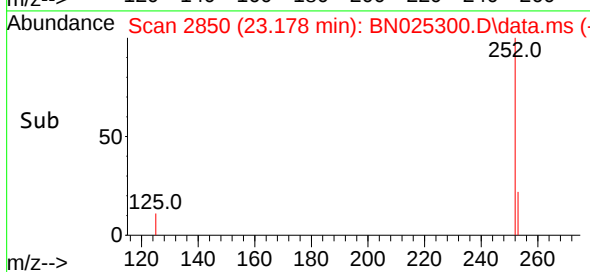
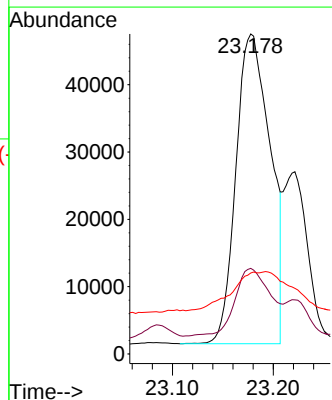
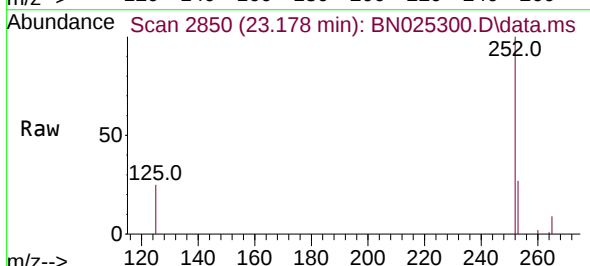


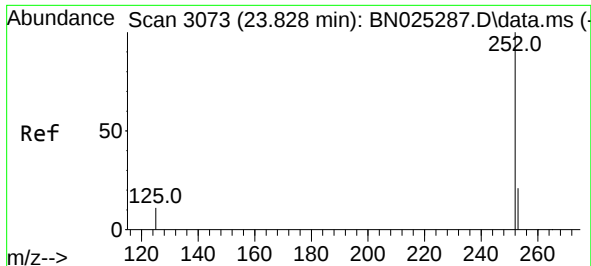
Tgt Ion:276 Resp: 43265
Ion Ratio Lower Upper
276 100
138 22.9 22.5 33.7
277 24.3 19.8 29.6



#37
Benzo(b)fluoranthene
Concen: 1.125 ng
RT: 23.178 min Scan# 2850
Delta R.T. -0.016 min
Lab File: BN025300.D
Acq: 06 May 2023 04:37

Tgt Ion:252 Resp: 108658
Ion Ratio Lower Upper
252 100
253 26.8 20.8 31.2
125 25.3 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.841 ng

RT: 23.806 min Scan# 3073

Delta R.T. -0.022 min

Lab File: BN025300.D

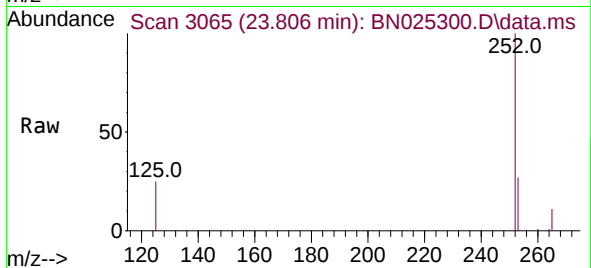
Acq: 06 May 2023 04:37

Instrument :

BNA_N

ClientSampleId :

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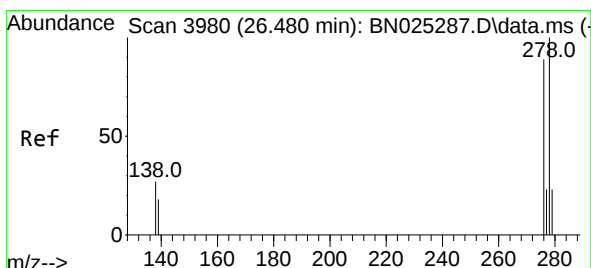
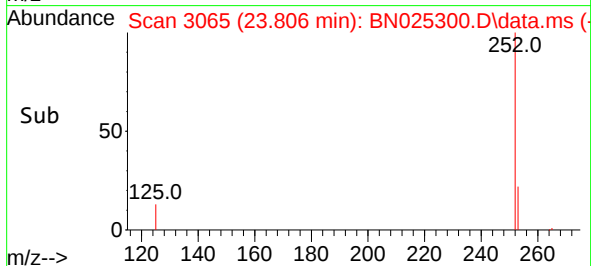
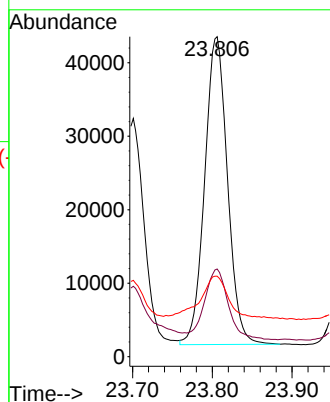
Tgt Ion:252 Resp: 83218

Ion Ratio Lower Upper

252 100

253 27.4 21.4 32.0

125 25.1 15.4 23.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.123 ng

RT: 26.437 min Scan# 3965

Delta R.T. -0.042 min

Lab File: BN025300.D

Acq: 06 May 2023 04:37

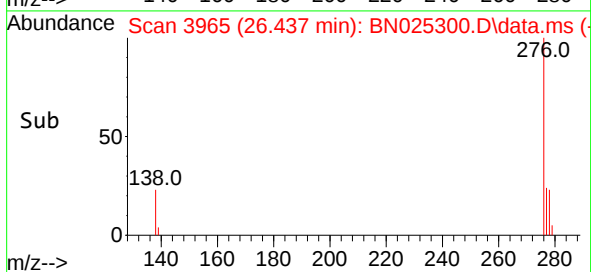
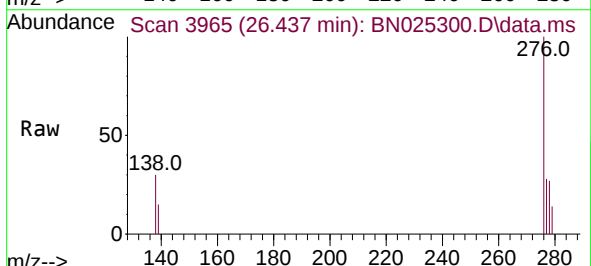
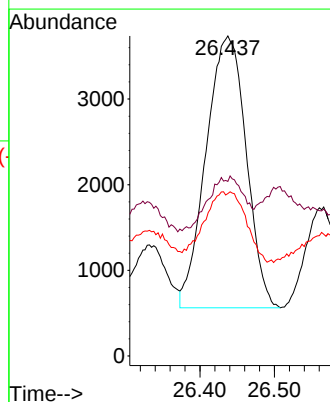
Tgt Ion:278 Resp: 11880

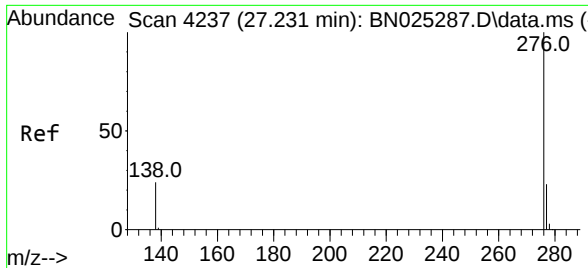
Ion Ratio Lower Upper

278 100

139 54.6 17.6 26.4#

279 50.7 21.6 32.4#





#41

Benzo(g,h,i)perylene

Concen: 0.403 ng

RT: 27.206 min Scan# 41

Delta R.T. -0.025 min

Lab File: BN025300.D

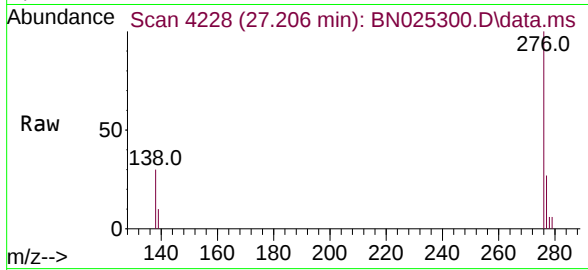
Acq: 06 May 2023 04:37

Instrument :

BNA_N

ClientSampleId :

ZONE-A-6-9-05022023



Tgt Ion:276 Resp: 42658

Ion Ratio Lower Upper

276 100

277 26.6 20.1 30.1

138 29.8 21.0 31.6

