

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061020\
 Data File : BN010830.D
 Acq On : 10 Jun 2020 22:51
 Operator : CG/JU
 Sample : L2904-03MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 VE-4-11MSD

Quant Time: Jun 11 00:46:26 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN061020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 10 15:14:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.56	152	3053	0.40	ng	0.00
7) Naphthalene-d8	10.30	136	11072	0.40	ng	0.00
13) Acenaphthene-d10	14.18	164	7349	0.40	ng	0.00
19) Phenanthrene-d10	16.92	188	13565	0.40	ng	-0.01
27) Chrysene-d12	21.13	240	13479	0.40	ng	0.00
34) Perylene-d12	23.29	264	14737	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	1091	0.19	ng	0.00
5) Phenol-d6	6.75	99	796	0.11	ng	0.00
8) Nitrobenzene-d5	8.69	82	3457	0.42	ng	0.00
11) 2-Methylnaphthalene-d10	11.90	152	6325	0.37	ng	0.00
14) 2,4,6-Tribromophenol	15.67	330	1184	0.45	ng	-0.01
15) 2-Fluorobiphenyl	12.80	172	9765	0.34	ng	0.00
25) Fluoranthene-d10	18.96	212	16255	0.43	ng	0.00
29) Terphenyl-d14	19.58	244	13604	0.43	ng	0.00

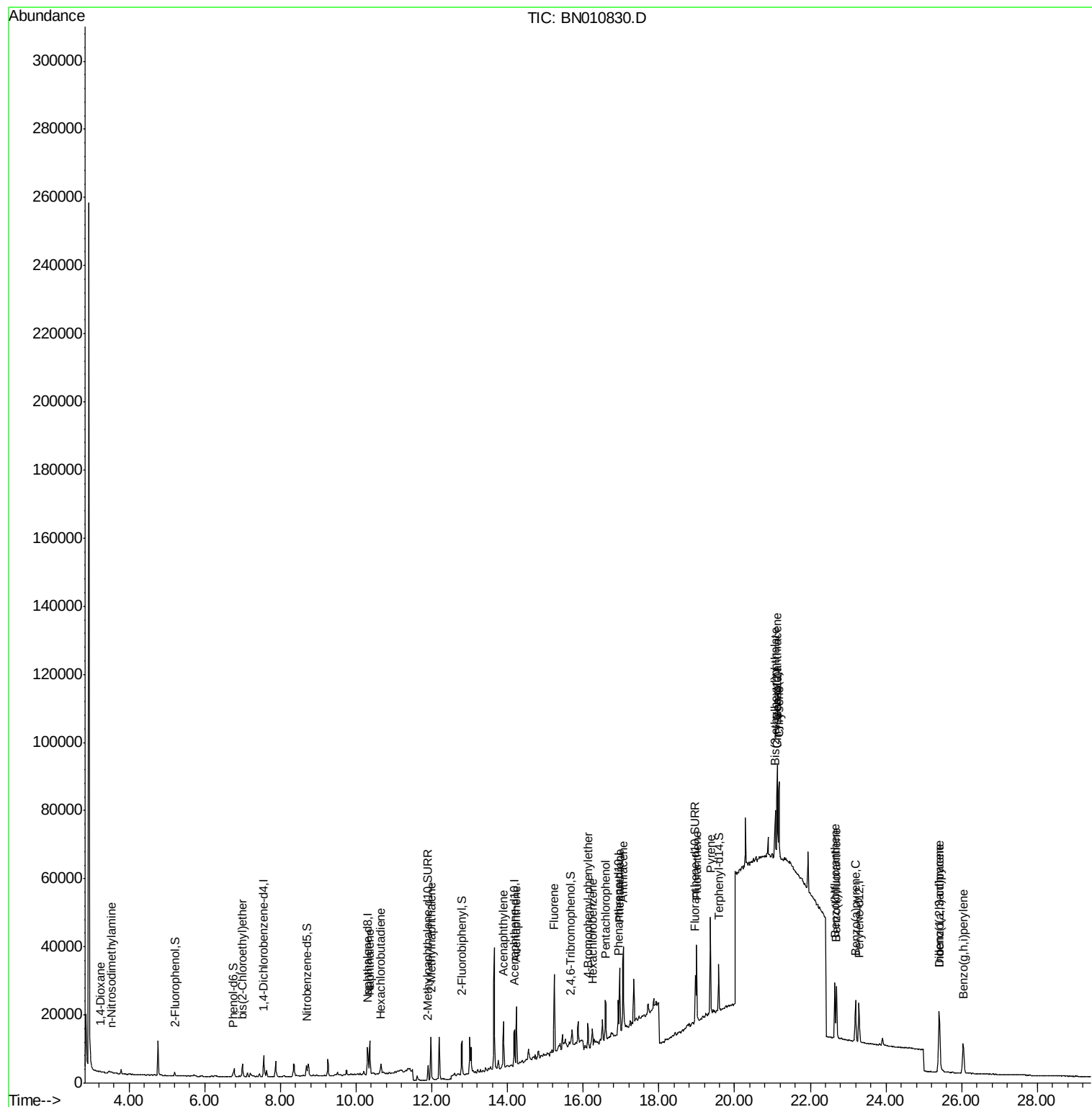
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.23	88	321	0.107	ng	# 27
3) n-Nitrosodimethylamine	3.53	42	270	0.155	ng	# 100
6) bis(2-Chloroethyl)ether	6.99	93	3233	0.478	ng	96
9) Naphthalene	10.35	128	12807	0.460	ng	99
10) Hexachlorobutadiene	10.65	225	2607	0.379	ng	# 99
12) 2-Methylnaphthalene	11.97	142	9156	0.492	ng	97
16) Acenaphthylene	13.89	152	14422	0.479	ng	# 83
17) Acenaphthene	14.24	154	8397	0.409	ng	97
18) Fluorene	15.23	166	11535	0.436	ng	98
20) 4-Bromophenyl-phenylether	16.12	248	3435	0.421	ng	# 66
21) Hexachlorobenzene	16.24	284	3477	0.409	ng	92
22) Pentachlorophenol	16.59	266	5503	1.928	ng	95
23) Phenanthrene	16.96	178	19594	0.529	ng	96
24) Anthracene	17.06	178	26190	0.847	ng	97
26) Fluoranthene	18.99	202	21340	0.507	ng	# 97
28) Pyrene	19.36	202	25969	0.582	ng	97
30) Benzo(a)anthracene	21.12	228	19911	0.503	ng	# 79
31) Chrysene	21.17	228	19800	0.429	ng	# 82
32) Bis(2-ethylhexyl)phthalate	21.08	149	10489	0.794	ng	100
33) Indeno(1,2,3-cd)pyrene	25.40	276	20137	0.390	ng	# 95
35) Benzo(b)fluoranthene	22.65	252	19129	0.382	ng	# 77
36) Benzo(k)fluoranthene	22.69	252	19007	0.356	ng	# 76
37) Benzo(a)pyrene	23.19	252	17407	0.405	ng	# 82
38) Dibenzo(a,h)anthracene	25.41	278	16433	0.335	ng	# 84
39) Benzo(g,h,i)perylene	26.04	276	17204	0.336	ng	# 89

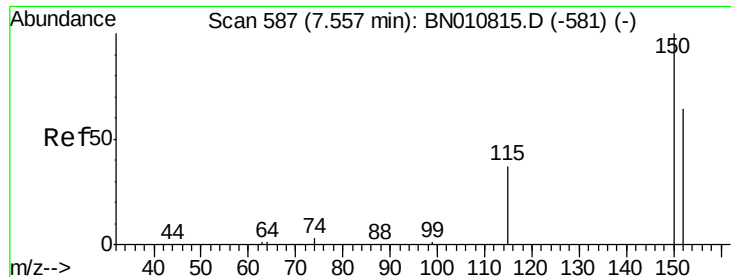
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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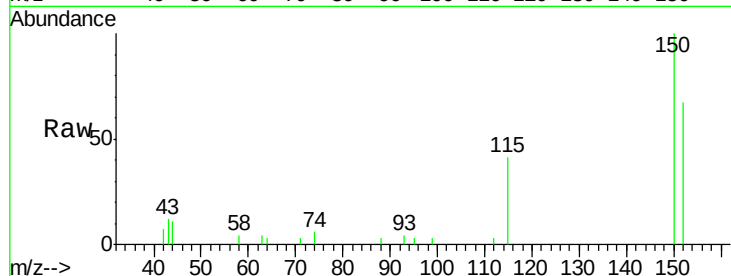


#1

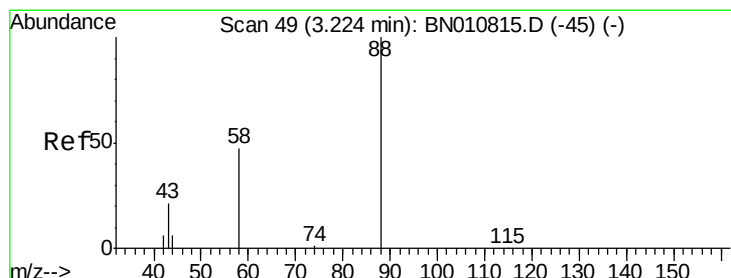
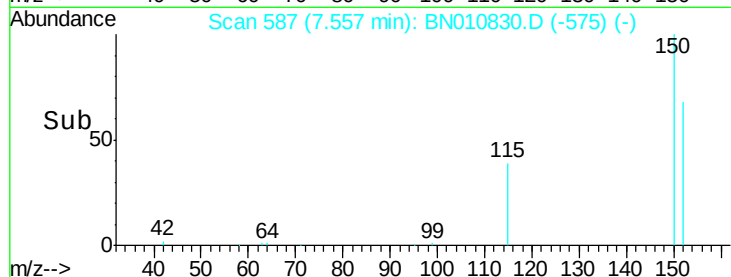
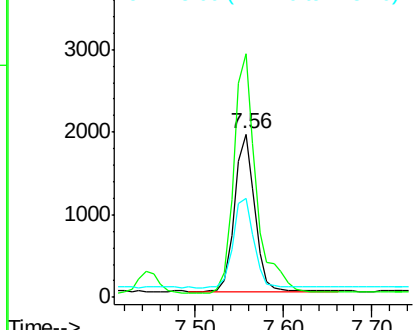
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.56 min Scan# 587
Delta R.T. -0.00 min
Lab File: BN010830.D
Acq: 10 Jun 2020 22:51

Instrument :
BNA_N
ClientSampleId :
VE-4-11MSD

Tot Ion:152 Resp: 3053
Ion Ratio Lower Upper
152 100
150 149.0 123.8 185.6
115 60.8 49.2 73.8



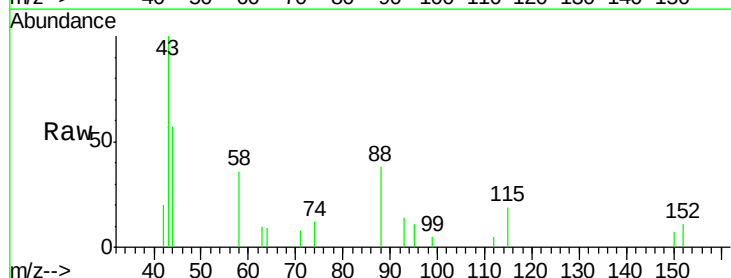
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



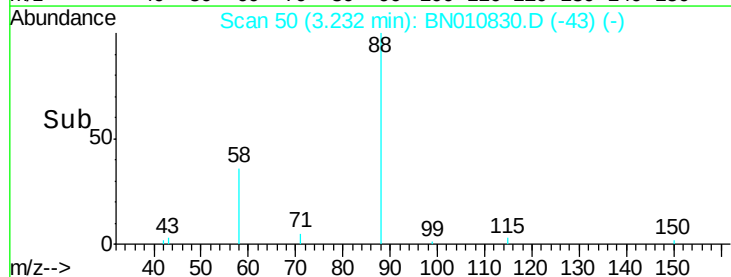
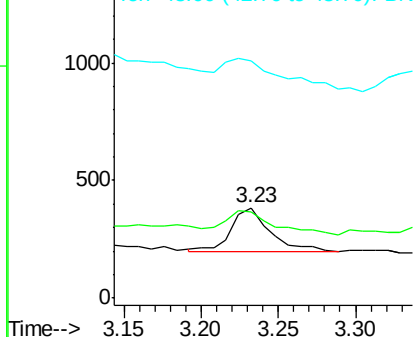
#2

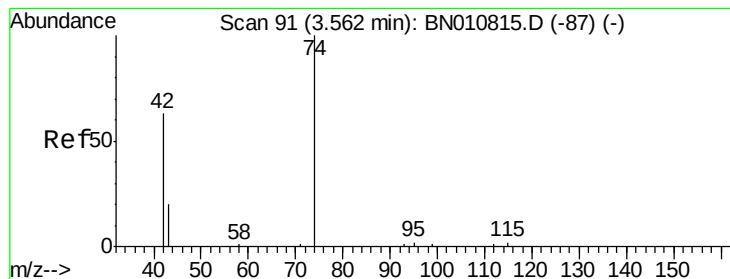
1,4-Dioxane
Concen: 0.107 ng
RT: 3.23 min Scan# 50
Delta R.T. 0.01 min
Lab File: BN010830.D
Acq: 10 Jun 2020 22:51

Tgt Ion: 88 Resp: 321
Ion Ratio Lower Upper
88 100
58 68.2 38.2 57.4#
43 100.0 15.1 22.7#



Abundance Ion 88.00 (87.70 to 88.70): BNC
Ion 58.00 (57.70 to 58.70): BNC
Ion 43.00 (42.70 to 43.70): BNC





#3

n-Nitrosodimethylamine

Concen: 0.155 ng

RT: 3.53 min Scan# 87

Delta R.T. -0.03 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

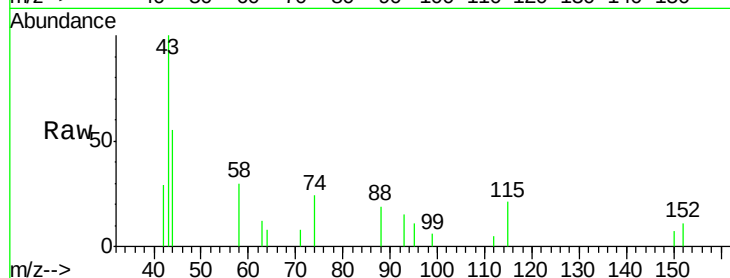
Tot Ion: 42 Resp: 270

Ion Ratio Lower Upper

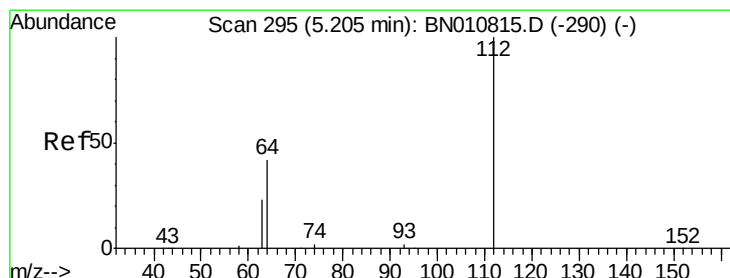
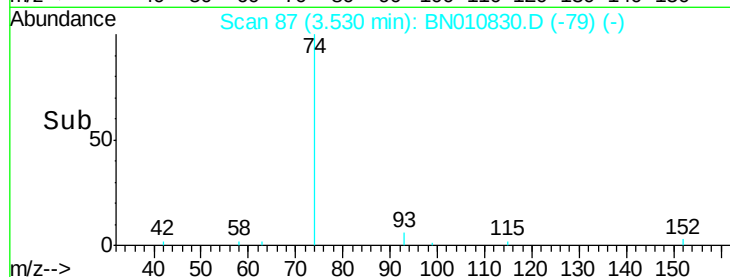
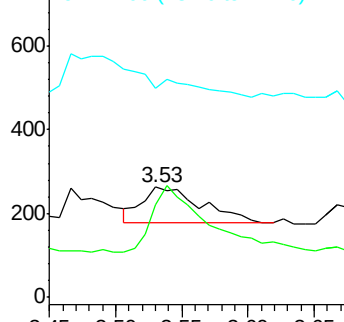
42 100

74 175.9 140.7 211.1

44 0.0 1.4 2.2#



Abundance Ion 42.00 (41.70 to 42.70): BN0
Ion 74.00 (73.70 to 74.70): BN0
Ion 44.00 (43.70 to 44.70): BN0



#4

2-Fluorophenol

Concen: 0.185 ng

RT: 5.21 min Scan# 295

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

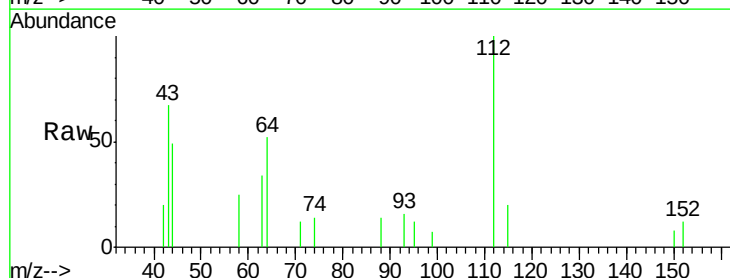
Tgt Ion: 112 Resp: 1091

Ion Ratio Lower Upper

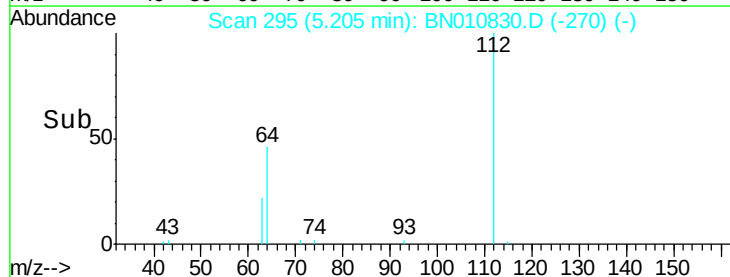
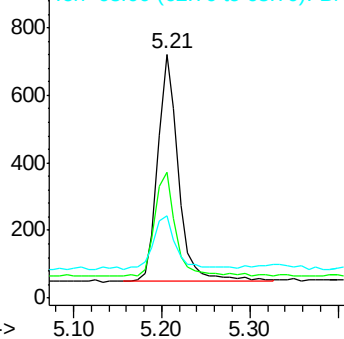
112 100

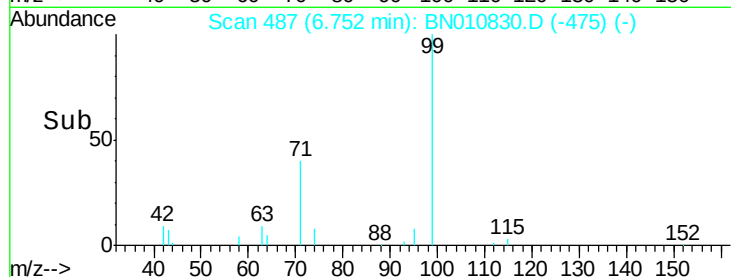
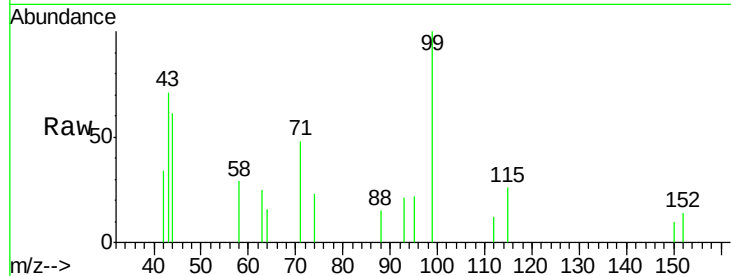
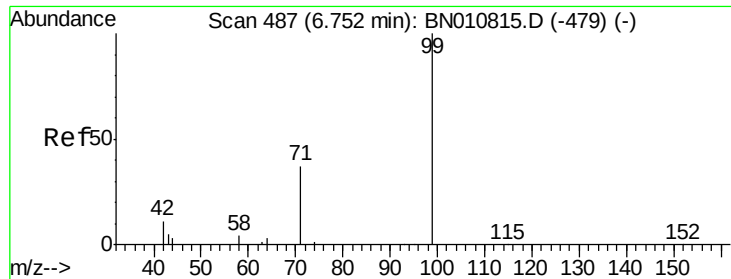
64 45.6 37.4 56.0

63 25.0 22.2 33.4



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BN0
Ion 63.00 (62.70 to 63.70): BN0





#5

Phenol-d6

Concen: 0.115 ng

RT: 6.75 min Scan# 487

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

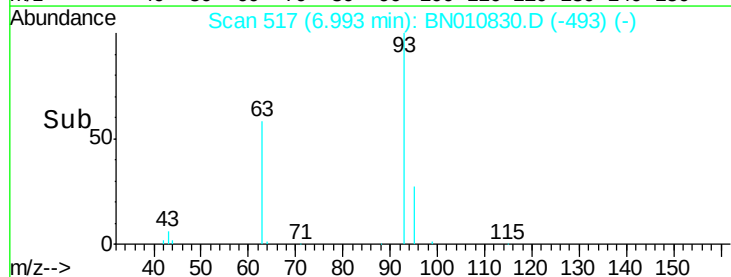
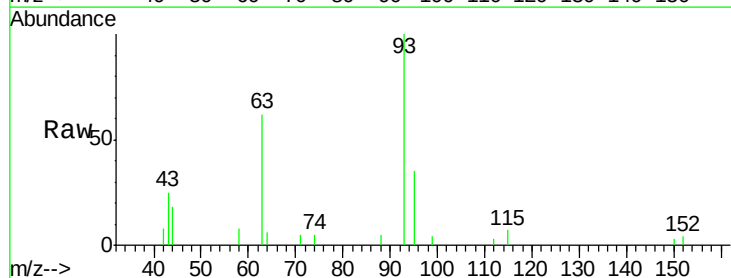
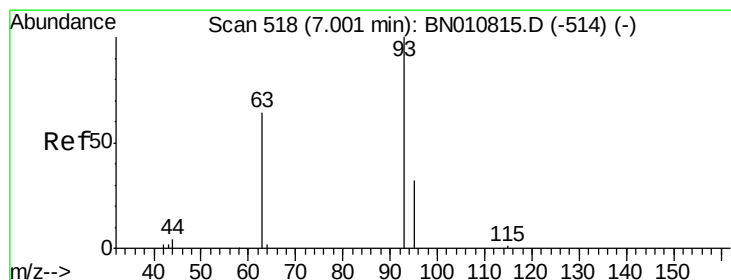
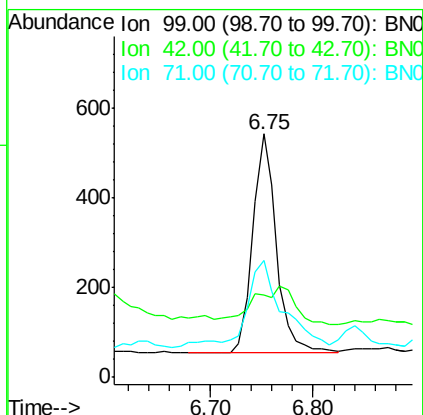
Tot Ion: 99 Resp: 796

Ion Ratio Lower Upper

99 100

42 30.7 11.1 16.7#

71 56.5 31.4 47.2#



#6

bis(2-Chloroethyl)ether

Concen: 0.478 ng

RT: 6.99 min Scan# 517

Delta R.T. -0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

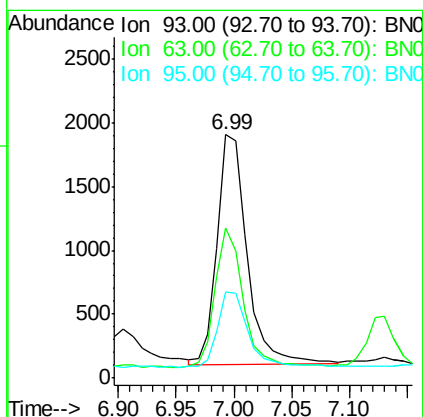
Tgt Ion: 93 Resp: 3233

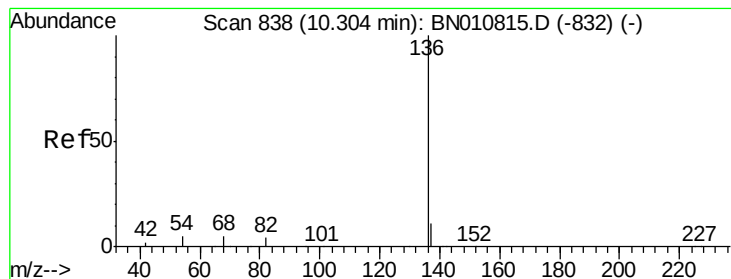
Ion Ratio Lower Upper

93 100

63 57.5 49.4 74.2

95 34.3 26.7 40.1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.30 min Scan# 838

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

Tot Ion:136 Resp: 11072

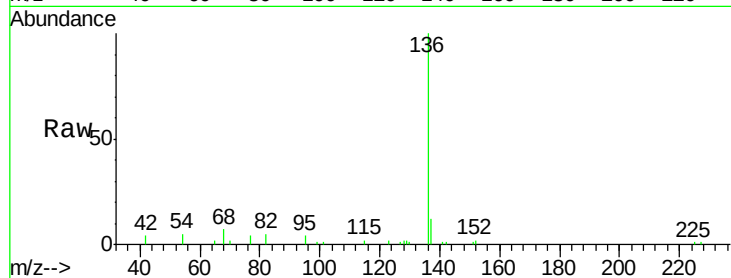
Ion Ratio Lower Upper

136 100

137 12.2 9.7 14.5

54 5.1 4.9 7.3

68 6.9 4.7 7.1

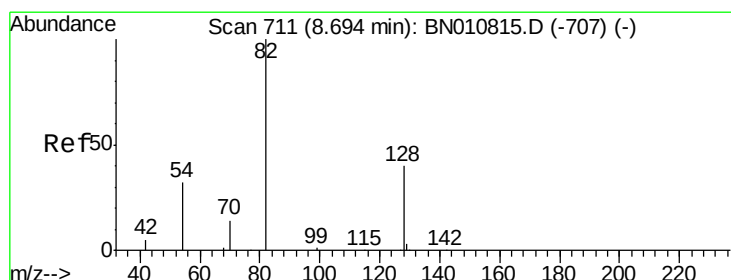
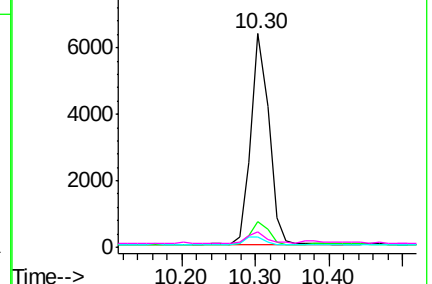
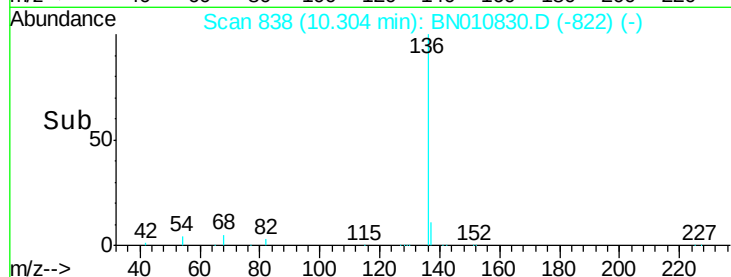


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.422 ng

RT: 8.69 min Scan# 711

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

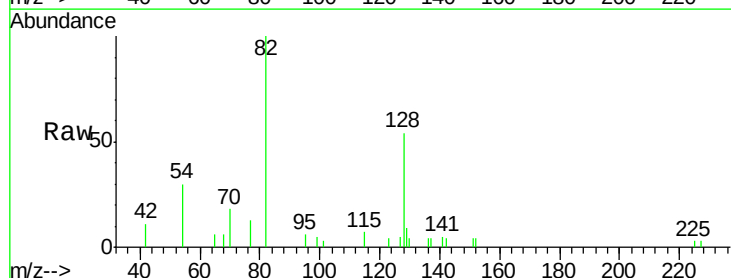
Tgt Ion: 82 Resp: 3457

Ion Ratio Lower Upper

82 100

128 53.6 35.4 53.0#

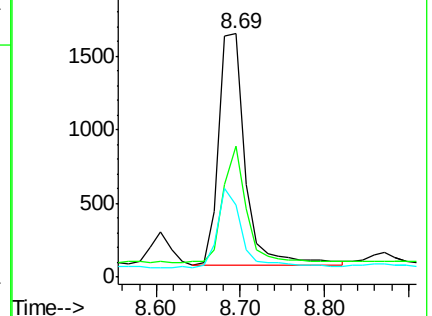
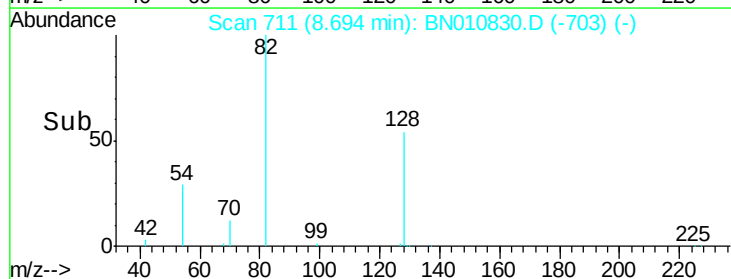
54 29.8 28.2 42.4

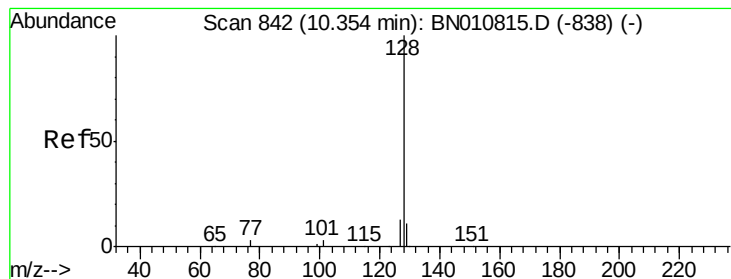


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.460 ng

RT: 10.35 min Scan# 842

Delta R.T. -0.00 min

Lab File: BN010830.D

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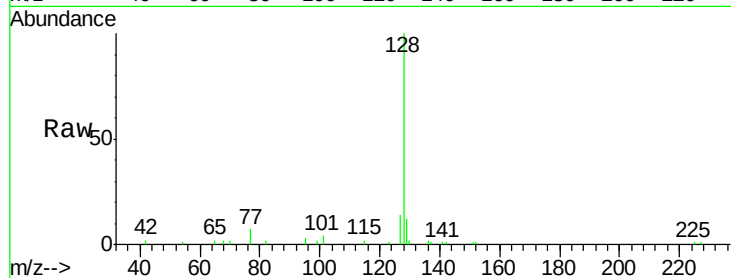
Tot Ion:128 Resp: 12807

Ion Ratio Lower Upper

128 100

129 12.4 9.6 14.4

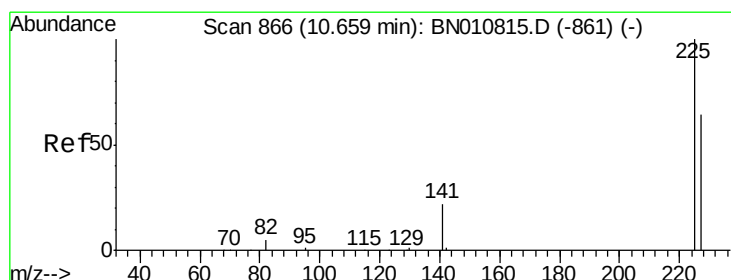
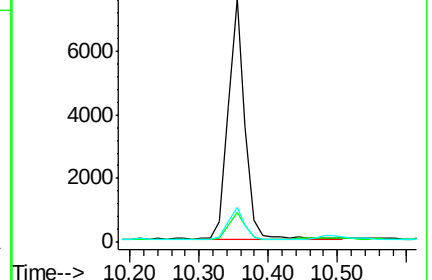
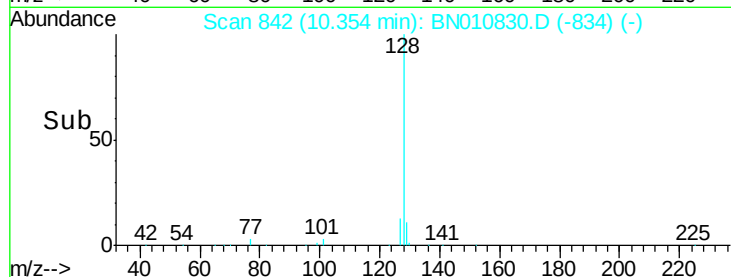
127 14.2 11.4 17.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.379 ng

RT: 10.65 min Scan# 865

Delta R.T. -0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

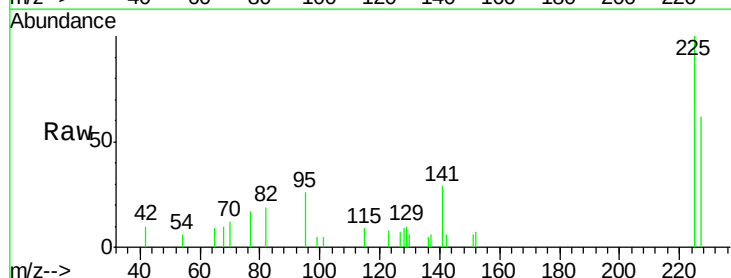
Tgt Ion:225 Resp: 2607

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

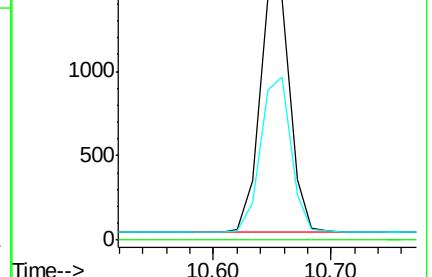
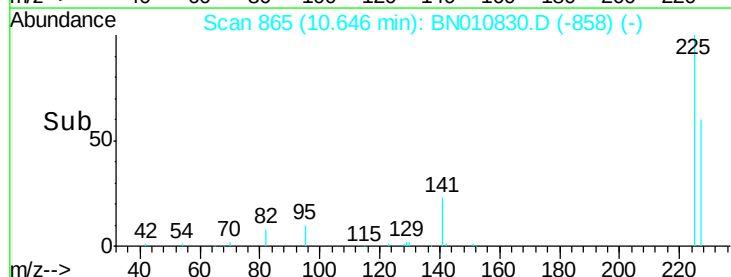
227 63.7 50.5 75.7

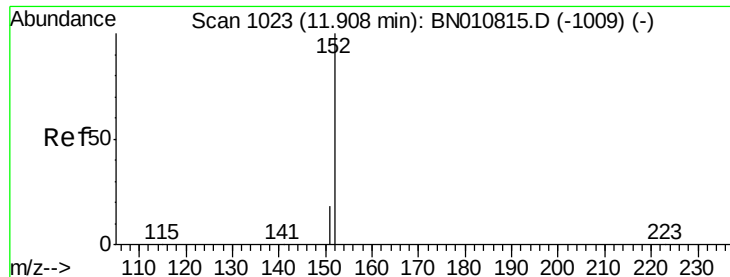


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

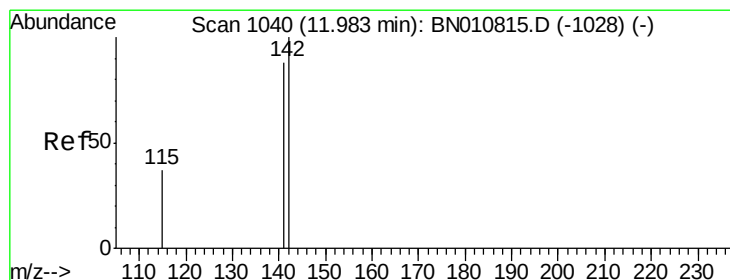
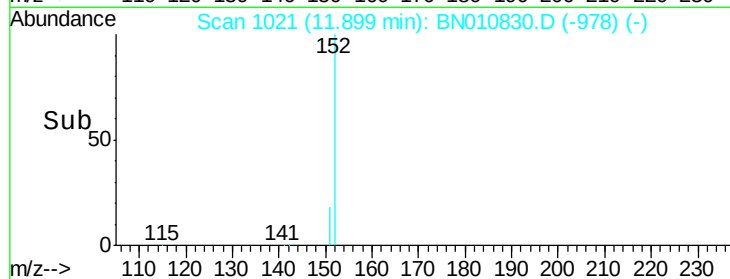
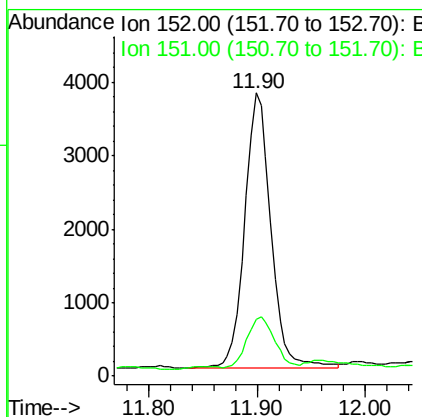
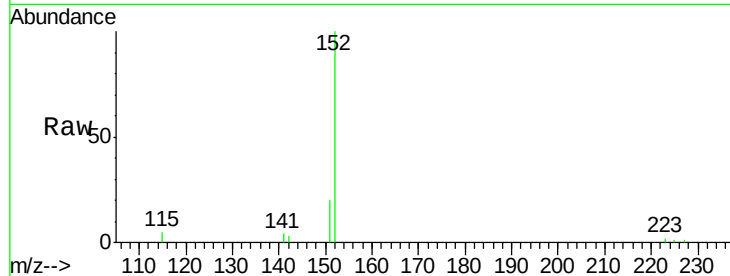




#11
 2-Methylnaphthalene-d10
 Concen: 0.368 ng
 RT: 11.90 min Scan# 1021
 Delta R.T. -0.01 min
 Lab File: BN010830.D
 Acq: 10 Jun 2020 22:51

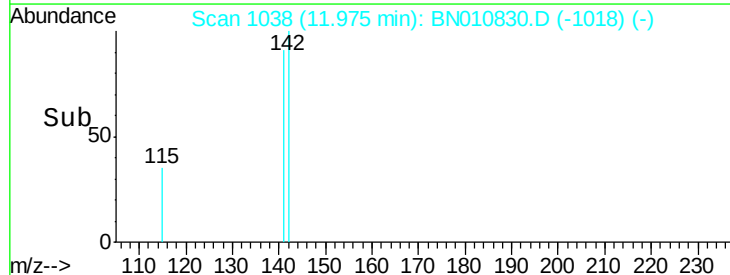
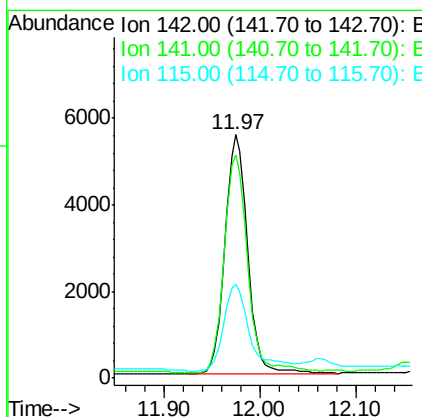
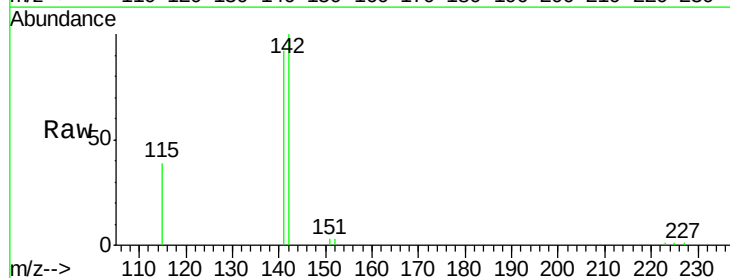
Instrument :
 BNA_N
 ClientSampleId :
 VE-4-11MSD

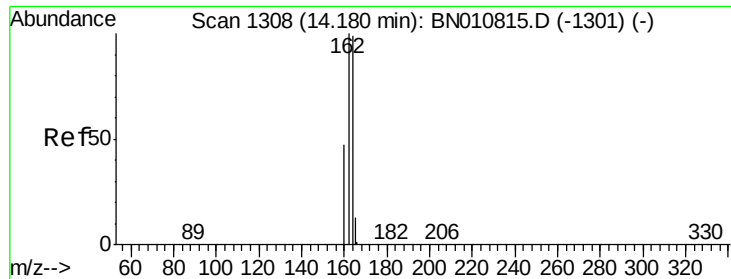
Tot Ion:152 Resp: 6325
 Ion Ratio Lower Upper
 152 100
 151 19.3 15.3 22.9



#12
 2-Methylnaphthalene
 Concen: 0.492 ng
 RT: 11.97 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: BN010830.D
 Acq: 10 Jun 2020 22:51

Tgt Ion:142 Resp: 9156
 Ion Ratio Lower Upper
 142 100
 141 91.8 70.8 106.2
 115 38.6 31.5 47.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.18 min Scan# 1308

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampled :

VE-4-11MSD

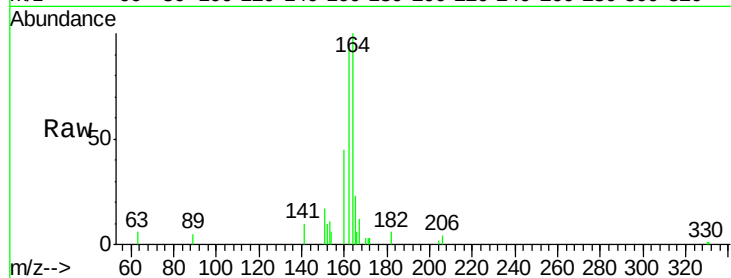
Tot Ion:164 Resp: 7349

Ion Ratio Lower Upper

164 100

162 94.0 81.0 121.6

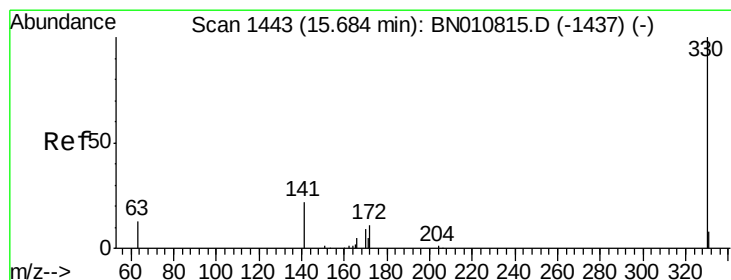
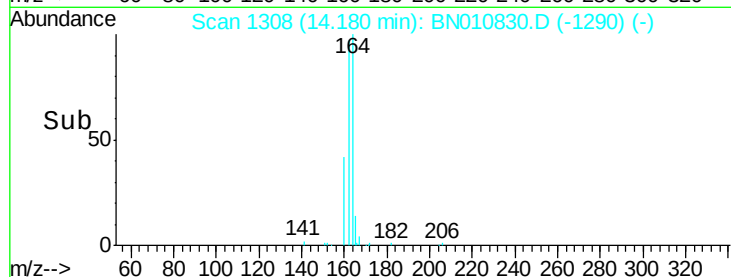
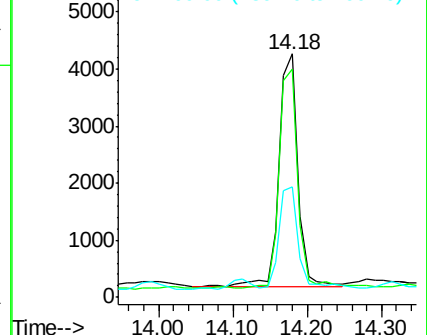
160 45.3 38.9 58.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.450 ng

RT: 15.67 min Scan# 1442

Delta R.T. -0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

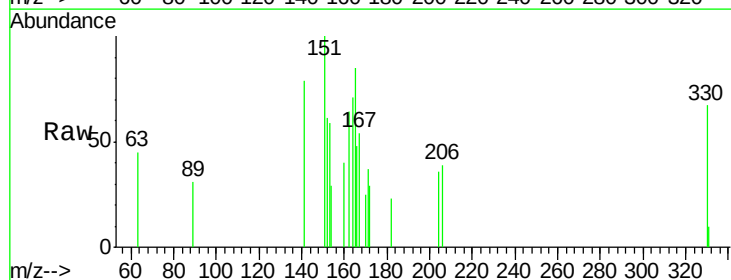
Tgt Ion:330 Resp: 1184

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

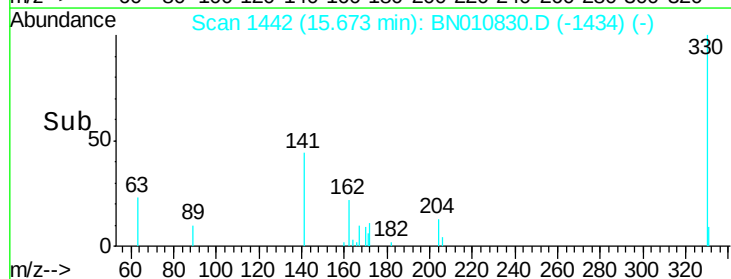
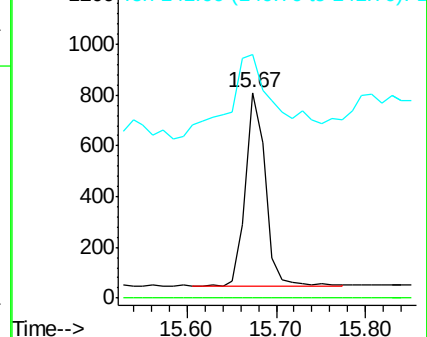
141 61.6 33.2 49.8#

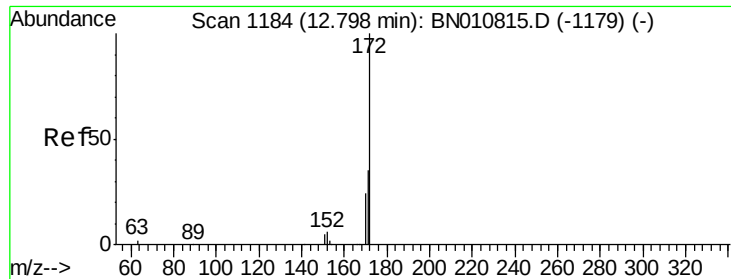


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

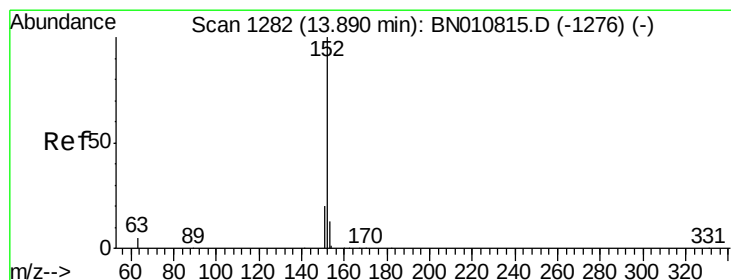
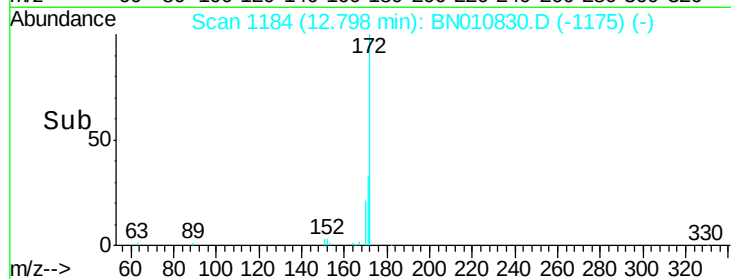
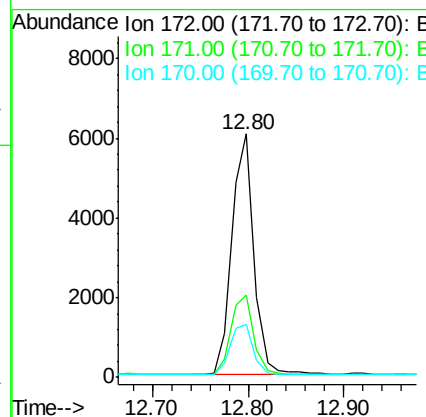
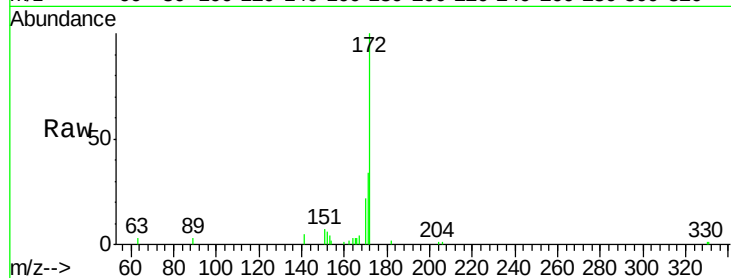




#15
2-Fluorobiphenyl
Concen: 0.337 ng
RT: 12.80 min Scan# 1184
Delta R.T. -0.00 min
Lab File: BN010830.D
Acq: 10 Jun 2020 22:51

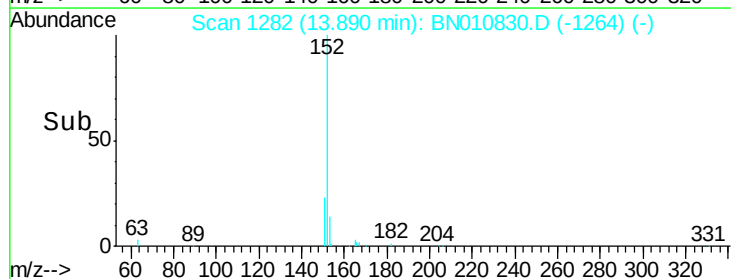
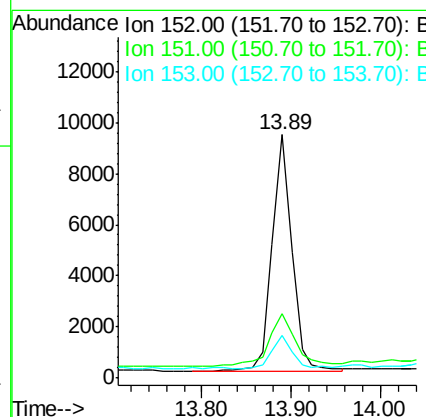
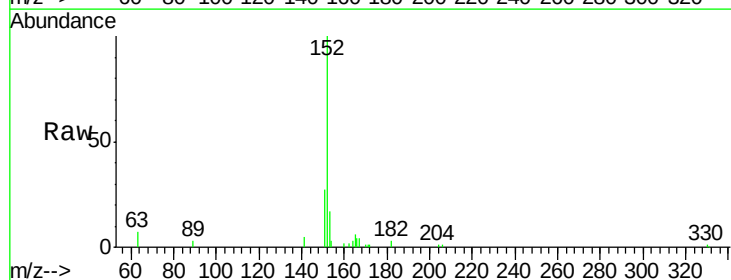
Instrument :
BNA_N
ClientSampleId :
VE-4-11MSD

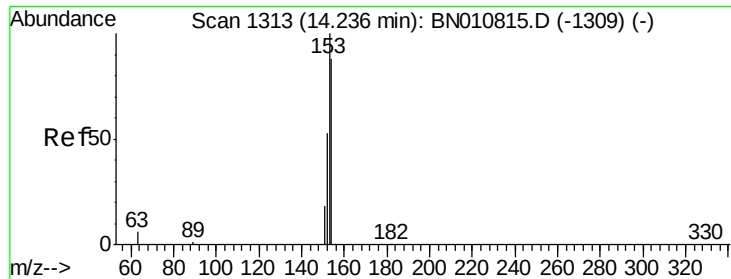
Tot Ion:172 Resp: 9765
Ion Ratio Lower Upper
172 100
171 34.1 28.5 42.7
170 21.9 19.7 29.5



#16
Acenaphthylene
Concen: 0.479 ng
RT: 13.89 min Scan# 1282
Delta R.T. -0.00 min
Lab File: BN010830.D
Acq: 10 Jun 2020 22:51

Tgt Ion:152 Resp: 14422
Ion Ratio Lower Upper
152 100
151 31.8 15.6 23.4#
153 14.7 10.6 16.0





#17

Acenaphthene

Concen: 0.409 ng

RT: 14.24 min Scan# 1313

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

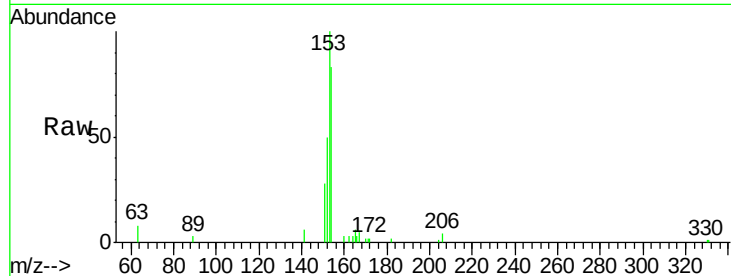
Tot Ion:154 Resp: 8397

Ion Ratio Lower Upper

154 100

153 116.2 91.8 137.6

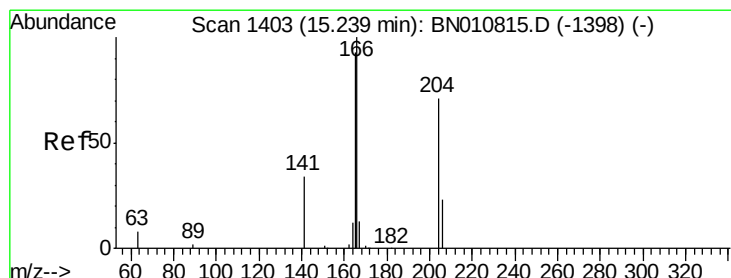
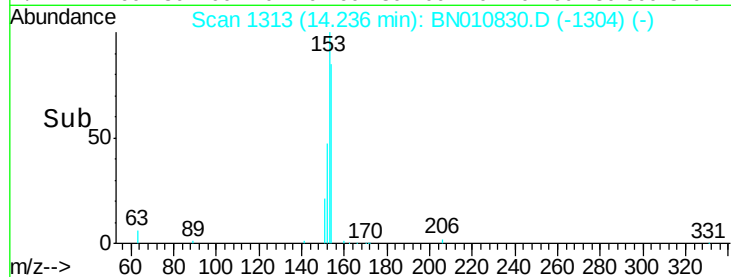
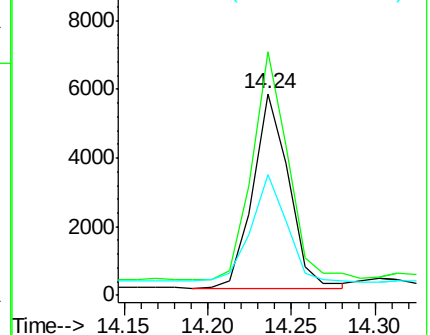
152 55.7 47.6 71.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.436 ng

RT: 15.23 min Scan# 1402

Delta R.T. -0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

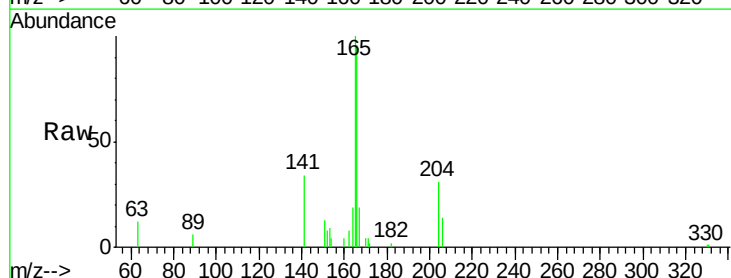
Tgt Ion:166 Resp: 11535

Ion Ratio Lower Upper

166 100

165 98.6 77.2 115.8

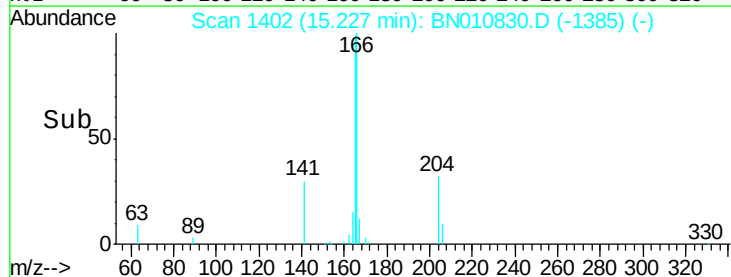
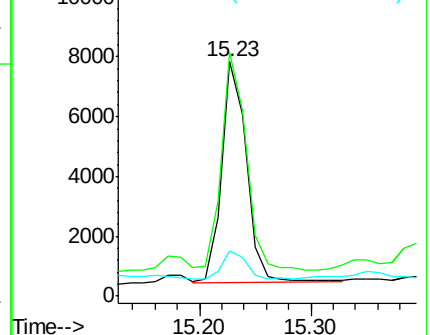
167 13.0 10.7 16.1

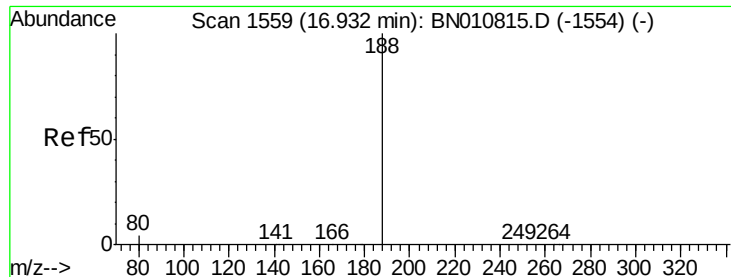


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.92 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

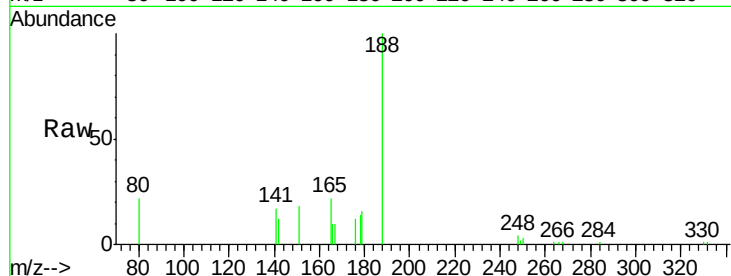
Tot Ion:188 Resp: 13565

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

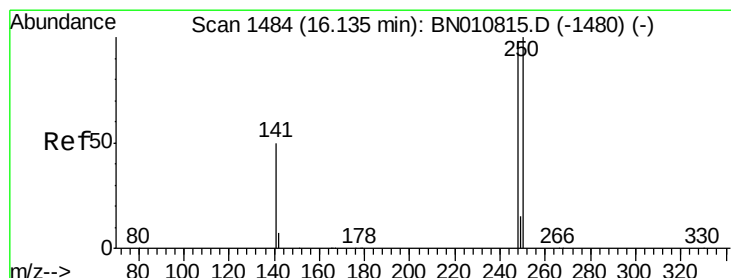
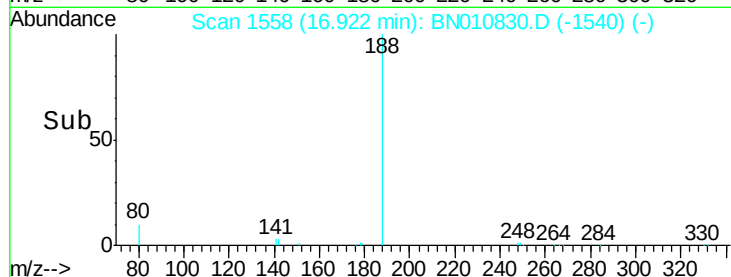
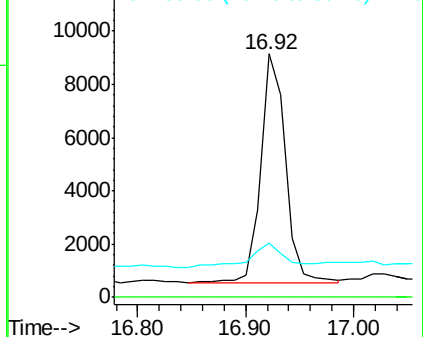
80 22.3 4.5 6.7#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNO

Ion 80.00 (79.70 to 80.70): BNO



#20

4-Bromophenyl-phenylether

Concen: 0.421 ng

RT: 16.12 min Scan# 1483

Delta R.T. -0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

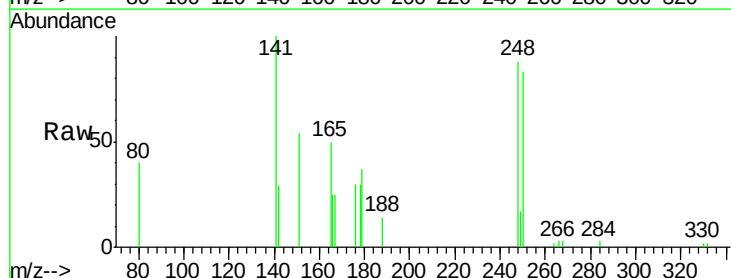
Tgt Ion:248 Resp: 3435

Ion Ratio Lower Upper

248 100

250 94.1 81.8 122.8

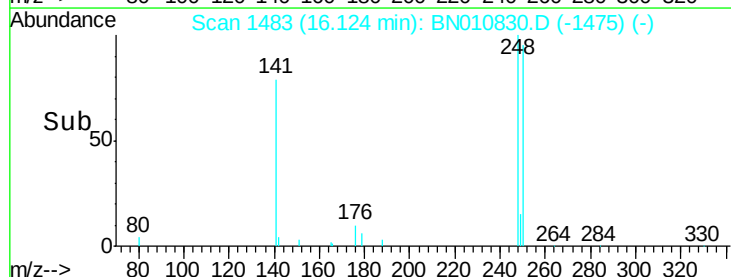
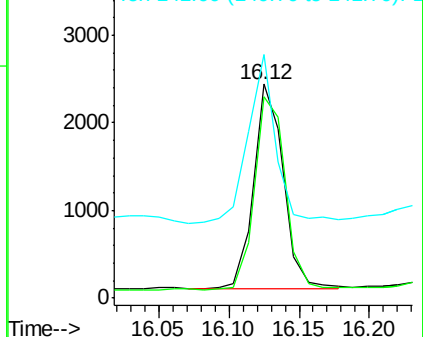
141 113.7 42.6 64.0#

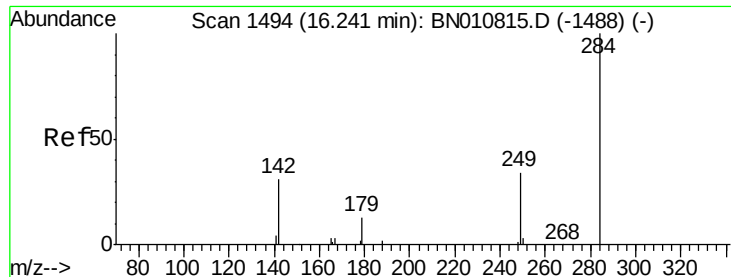


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

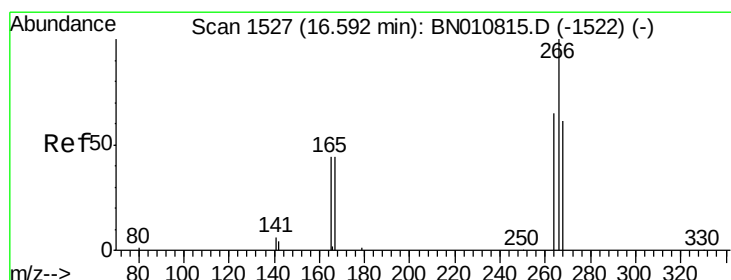
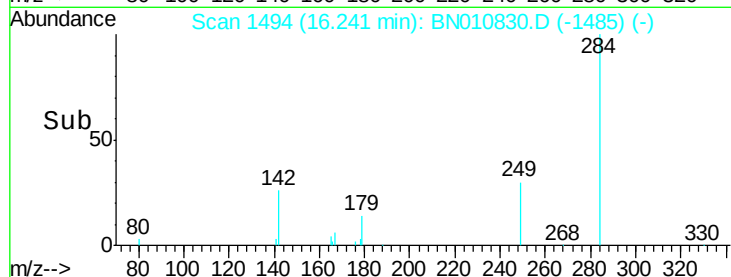
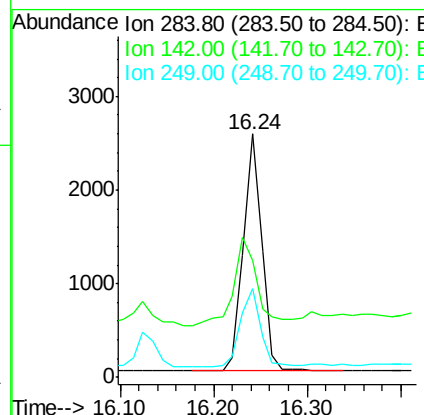
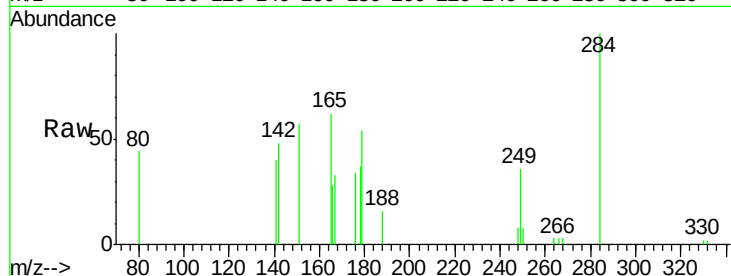




#21
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.24 min Scan# 1494
Delta R.T. -0.00 min
Lab File: BN010830.D
Acq: 10 Jun 2020 22:51

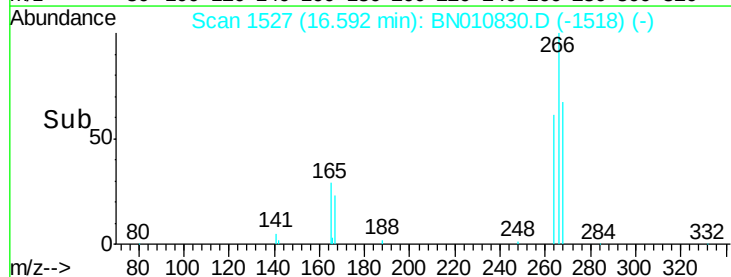
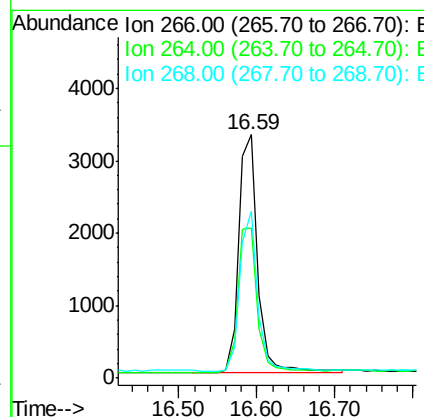
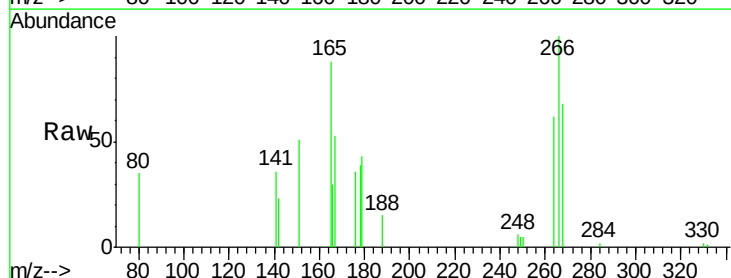
Instrument :
BNA_N
ClientSampleId :
VE-4-11MSD

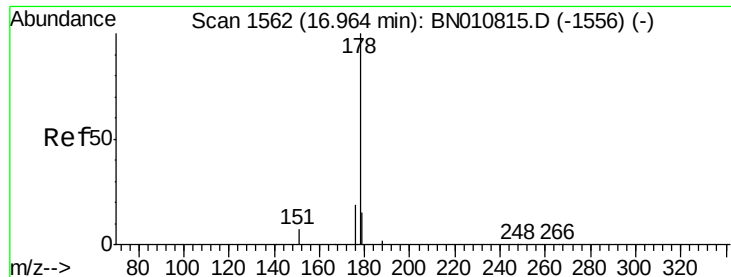
Tot Ion:284 Resp: 3477
Ion Ratio Lower Upper
284 100
142 46.4 31.0 46.4
249 35.0 27.1 40.7



#22
Pentachlorophenol
Concen: 1.928 ng
RT: 16.59 min Scan# 1527
Delta R.T. -0.00 min
Lab File: BN010830.D
Acq: 10 Jun 2020 22:51

Tgt Ion:266 Resp: 5503
Ion Ratio Lower Upper
266 100
264 61.8 54.8 82.2
268 68.4 55.9 83.9





#23

Phenanthrene

Concen: 0.529 ng

RT: 16.96 min Scan# 1562

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

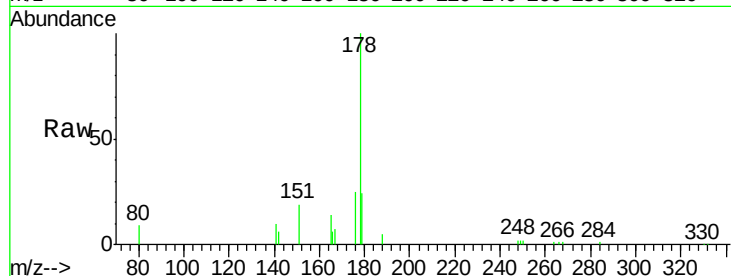
Tot Ion:178 Resp: 19594

Ion Ratio Lower Upper

178 100

176 18.6 15.3 22.9

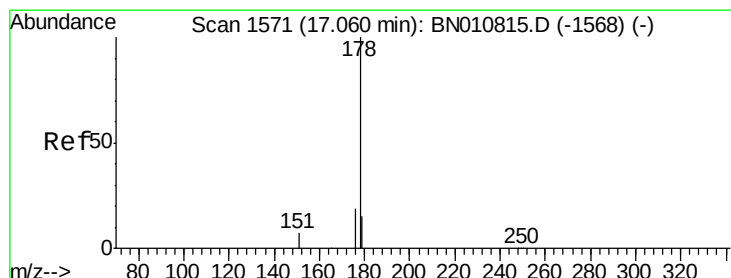
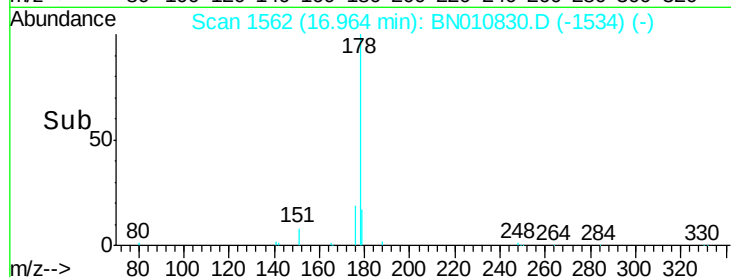
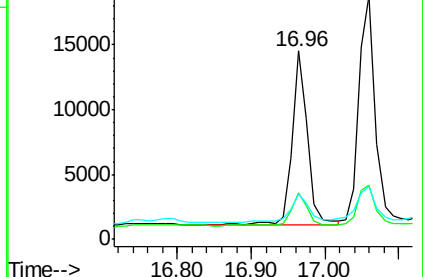
179 18.9 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.847 ng

RT: 17.06 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

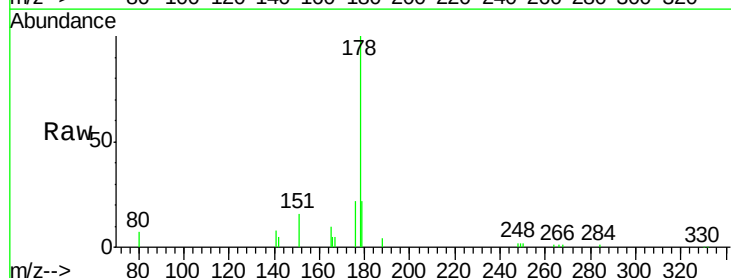
Tgt Ion:178 Resp: 26190

Ion Ratio Lower Upper

178 100

176 19.4 14.6 22.0

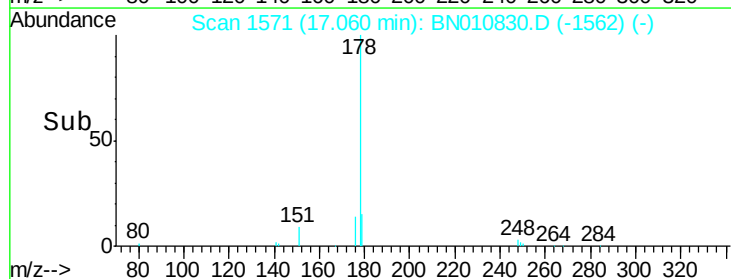
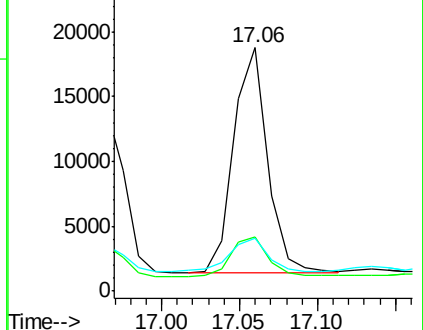
179 17.1 12.3 18.5

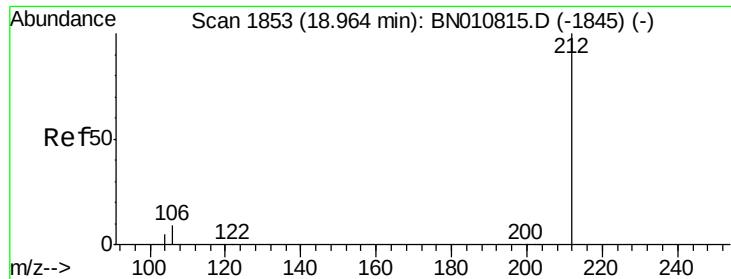


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.434 ng

RT: 18.96 min Scan# 1853

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

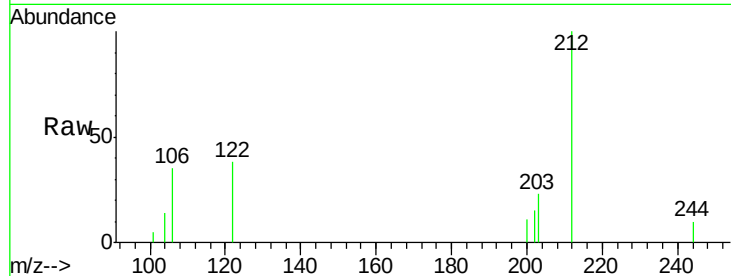
Tot Ion:212 Resp: 16255

Ion Ratio Lower Upper

212 100

106 14.2 6.6 10.0#

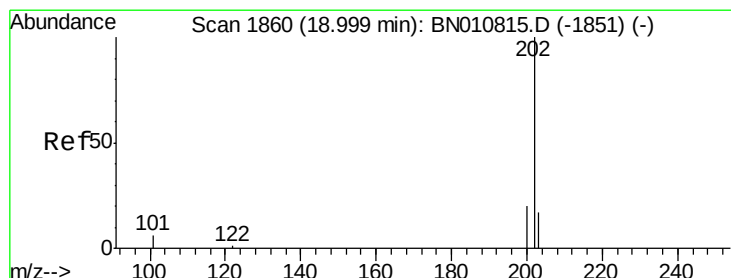
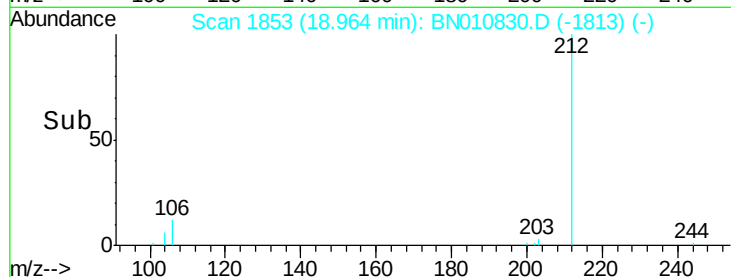
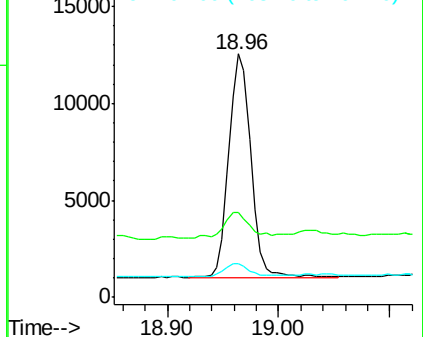
104 6.2 4.0 6.0#



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.507 ng

RT: 18.99 min Scan# 1859

Delta R.T. -0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

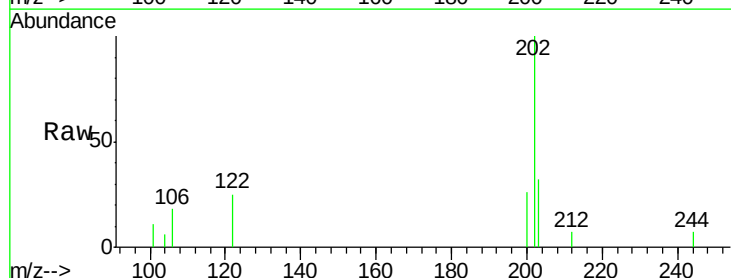
Tgt Ion:202 Resp: 21340

Ion Ratio Lower Upper

202 100

101 8.8 5.8 8.6#

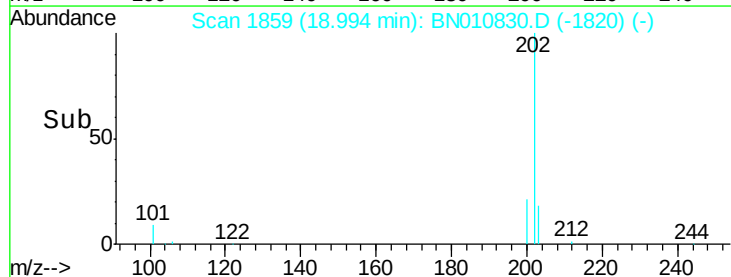
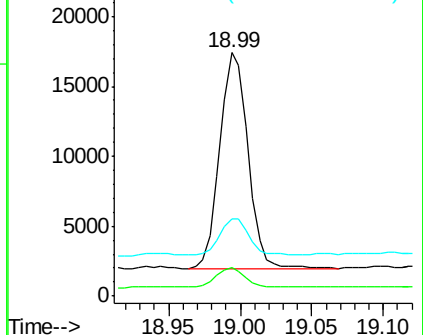
203 18.2 13.7 20.5

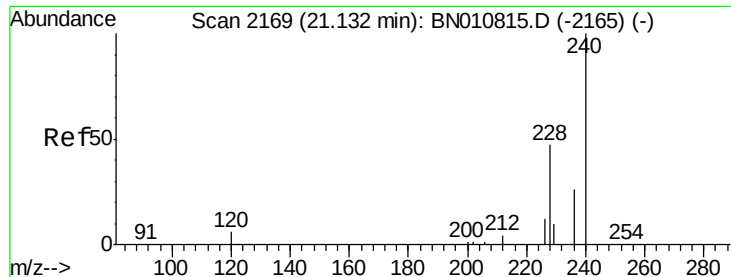


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

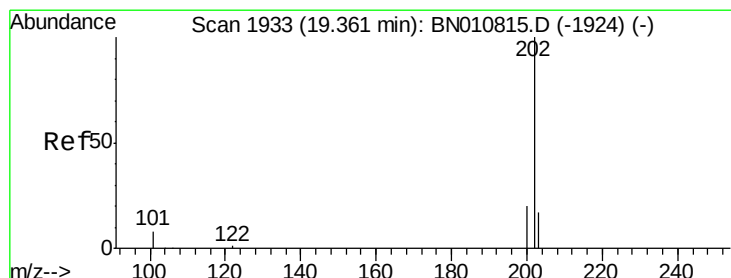
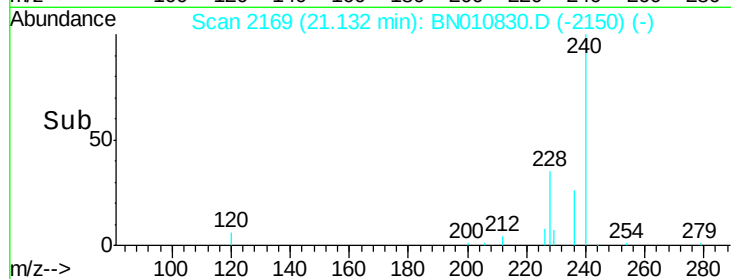
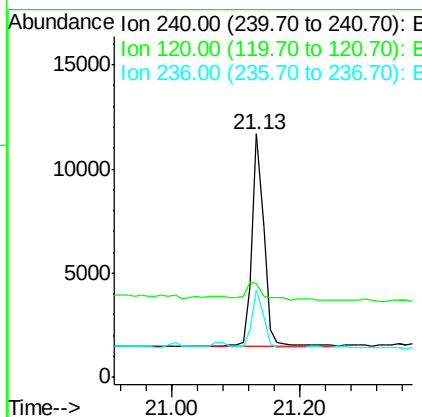
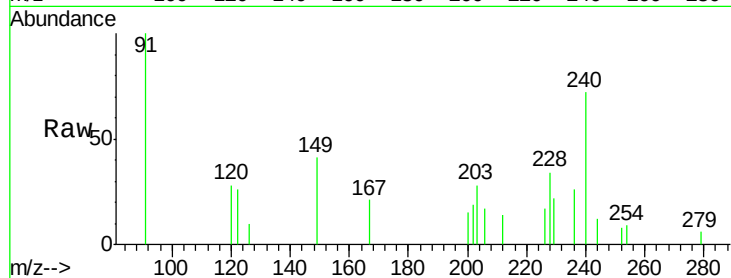




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.13 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: BN010830.D
 Acq: 10 Jun 2020 22:51

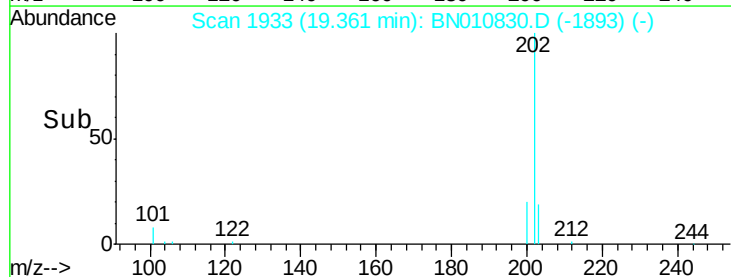
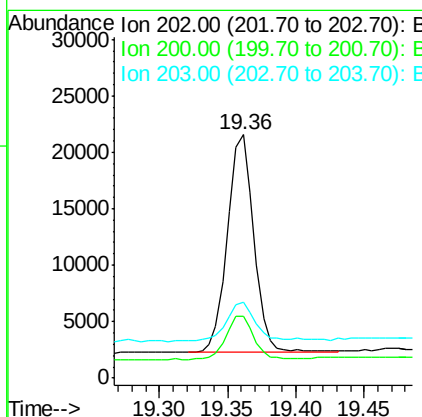
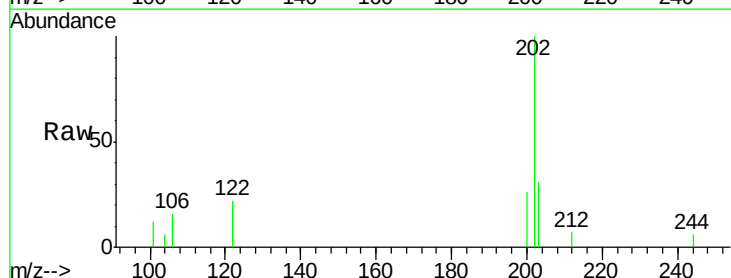
Instrument :
 BNA_N
 ClientSampleId :
 VE-4-11MSD

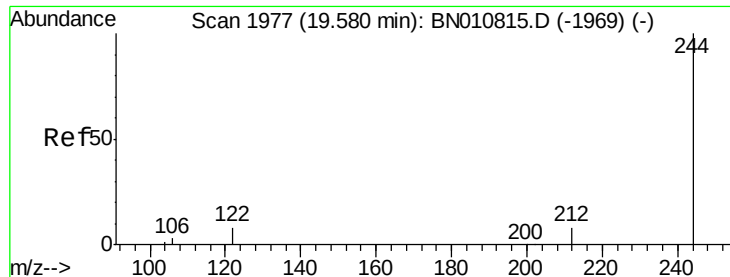
Tot Ion:240 Resp: 13479
 Ion Ratio Lower Upper
 240 100
 120 38.6 7.5 11.3#
 236 35.7 22.3 33.5#



#28
 Pyrene
 Concen: 0.582 ng
 RT: 19.36 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: BN010830.D
 Acq: 10 Jun 2020 22:51

Tgt Ion:202 Resp: 25969
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.4 24.6
 203 20.1 14.2 21.4





#29

Terphenyl-d14

Concen: 0.431 ng

RT: 19.58 min Scan# 1977

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

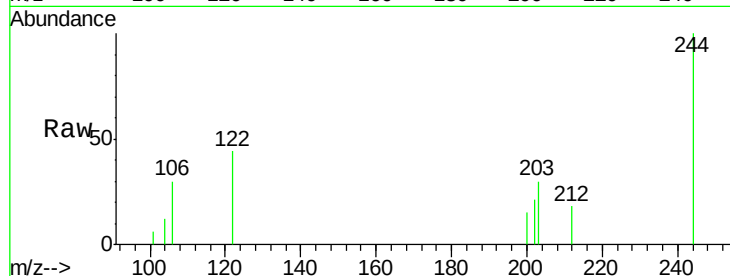
Tot Ion:244 Resp: 13604

Ion Ratio Lower Upper

244 100

212 18.5 7.4 11.2#

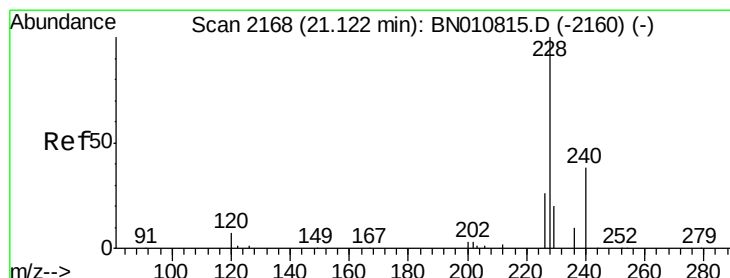
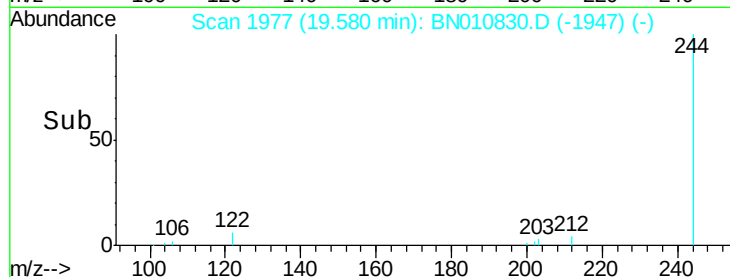
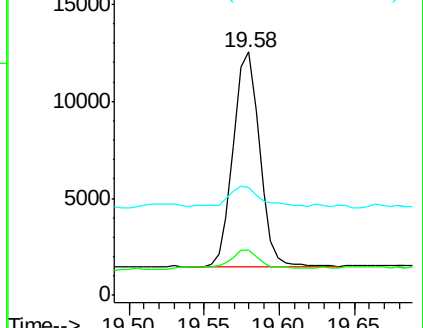
122 44.1 7.5 11.3#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.503 ng

RT: 21.12 min Scan# 2168

Delta R.T. -0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

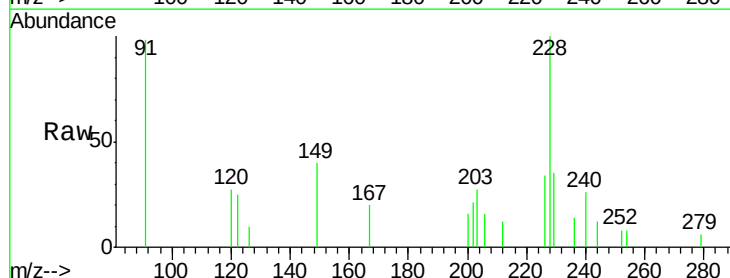
Tgt Ion:228 Resp: 19911

Ion Ratio Lower Upper

228 100

226 33.8 21.3 31.9#

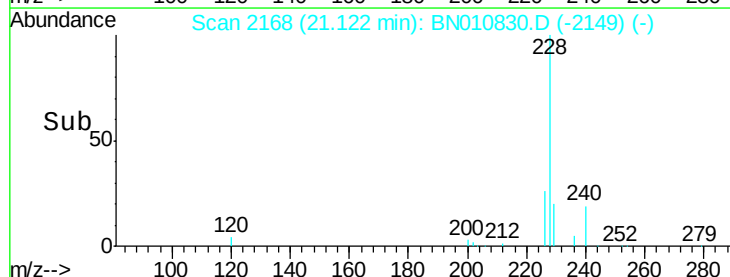
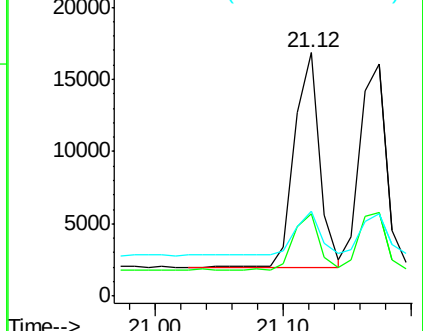
229 34.9 16.6 24.8#

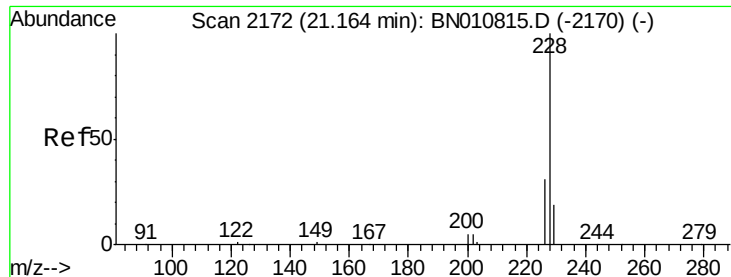


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.429 ng

RT: 21.17 min Scan# 2173

Delta R.T. 0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

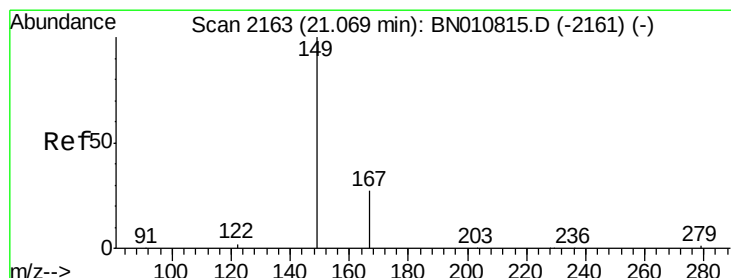
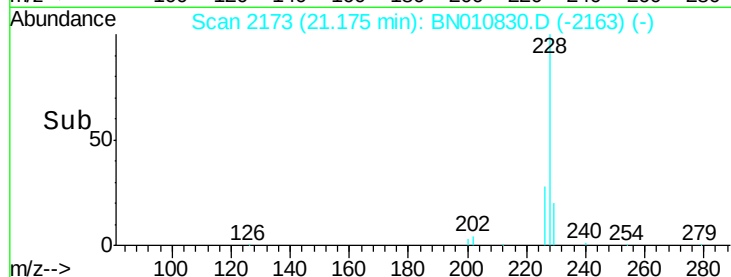
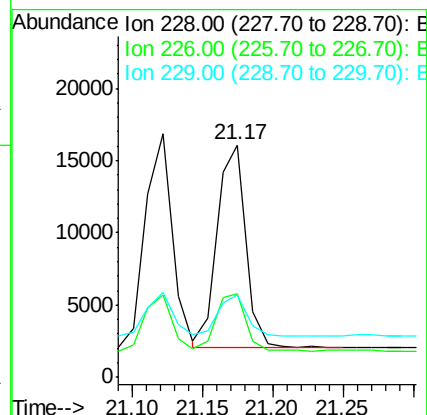
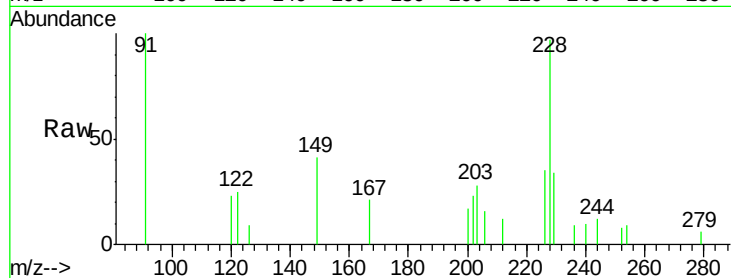
Tot Ion:228 Resp: 19800

Ion Ratio Lower Upper

228 100

226 35.9 25.0 37.6

229 35.5 16.1 24.1#



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.794 ng

RT: 21.08 min Scan# 2164

Delta R.T. 0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

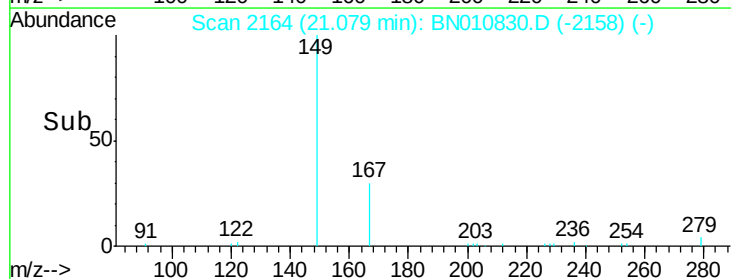
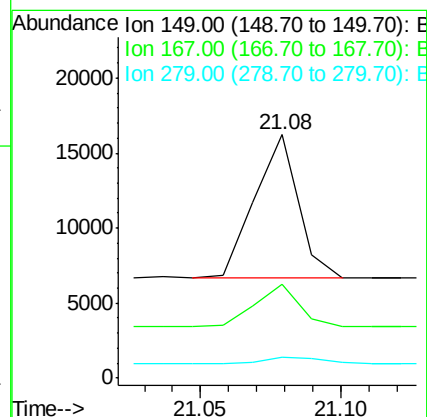
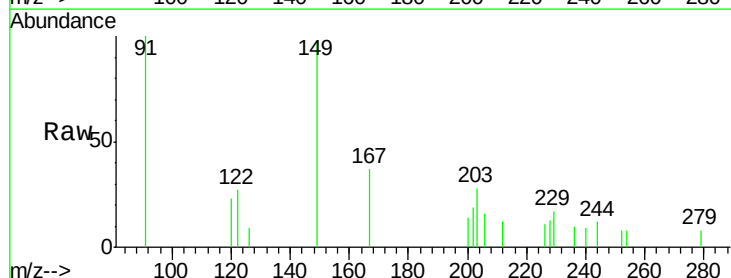
Tgt Ion:149 Resp: 10489

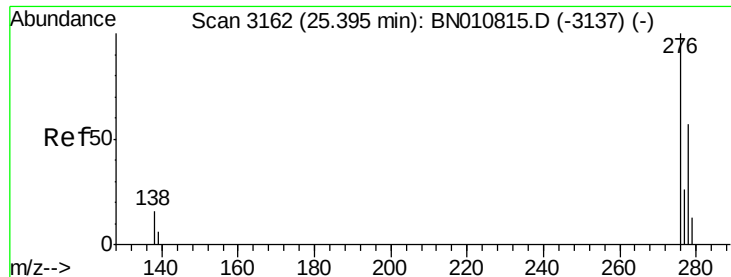
Ion Ratio Lower Upper

149 100

167 30.1 24.1 36.1

279 5.1 4.6 7.0

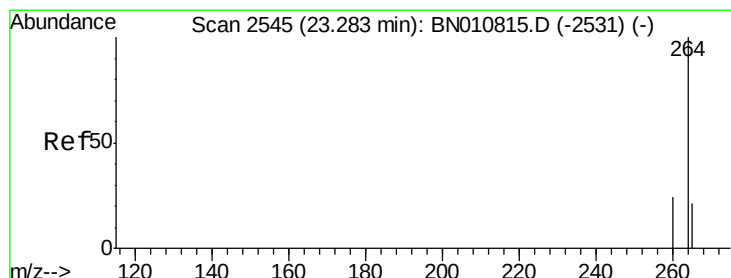
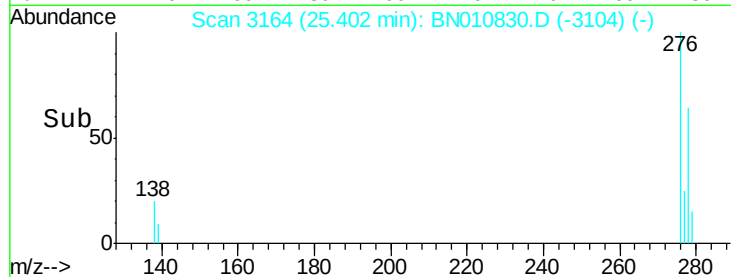
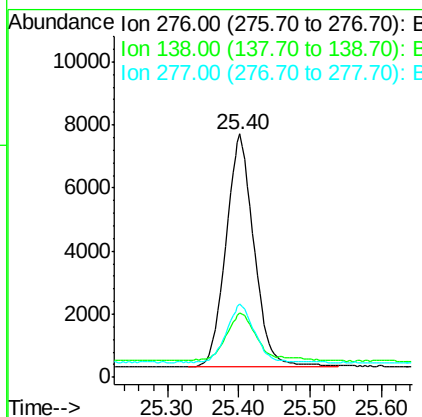
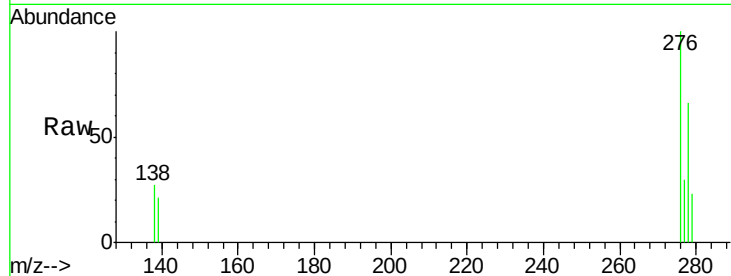




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.390 ng
 RT: 25.40 min Scan# 3164
 Delta R.T. 0.01 min
 Lab File: BN010830.D
 Acq: 10 Jun 2020 22:51

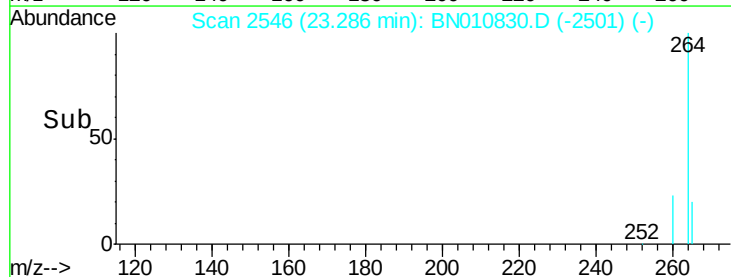
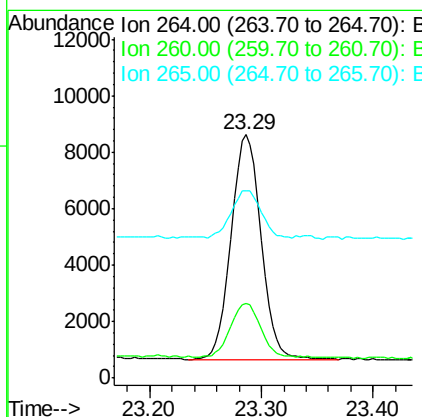
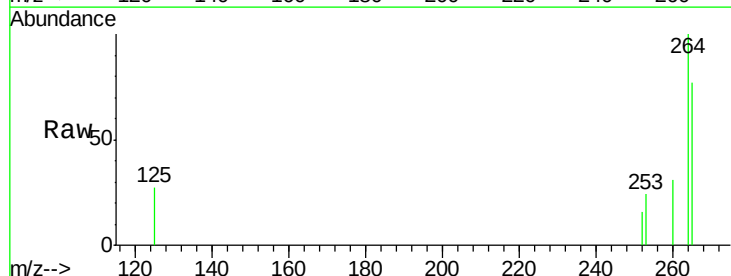
Instrument :
 BNA_N
 ClientSampleId :
 VE-4-11MSD

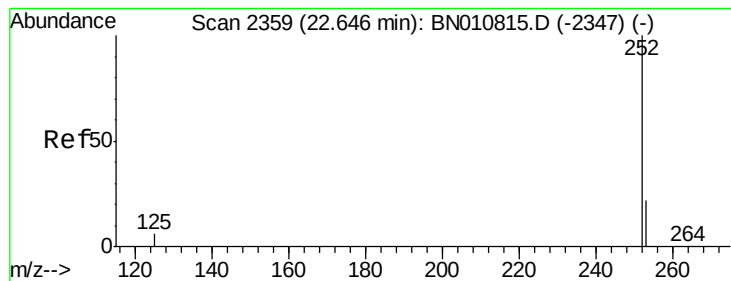
Tot Ion:276 Resp: 20137
 Ion Ratio Lower Upper
 276 100
 138 21.1 13.0 19.6#
 277 24.5 19.7 29.5



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.29 min Scan# 2546
 Delta R.T. 0.00 min
 Lab File: BN010830.D
 Acq: 10 Jun 2020 22:51

Tgt Ion:264 Resp: 14737
 Ion Ratio Lower Upper
 264 100
 260 30.7 20.4 30.6#
 265 77.2 75.0 112.4





#35

Benzo(b)fluoranthene

Concen: 0.382 ng

RT: 22.65 min Scan# 2360

Delta R.T. 0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

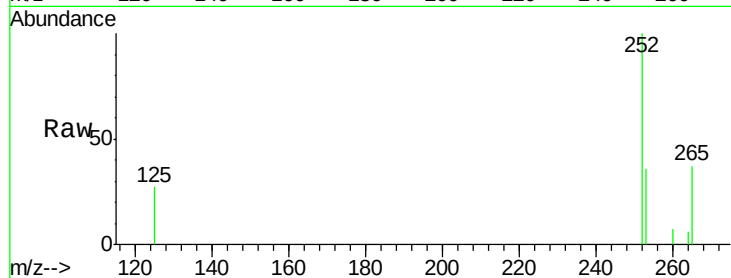
Tot Ion:252 Resp: 19129

Ion Ratio Lower Upper

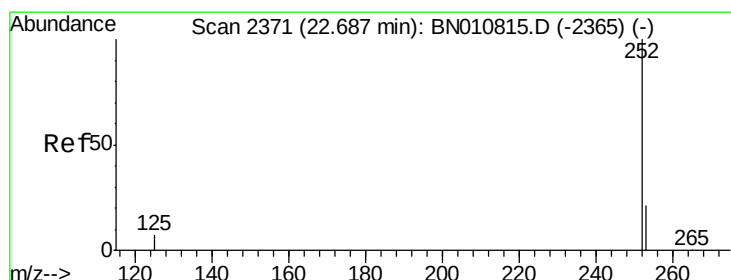
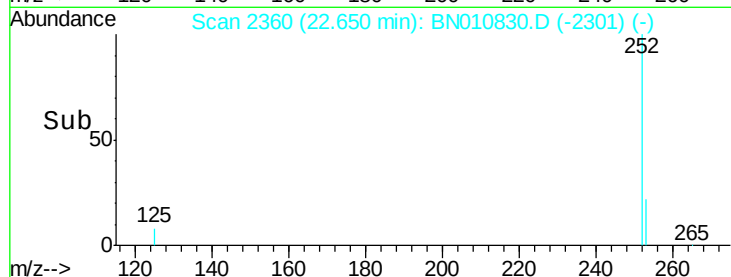
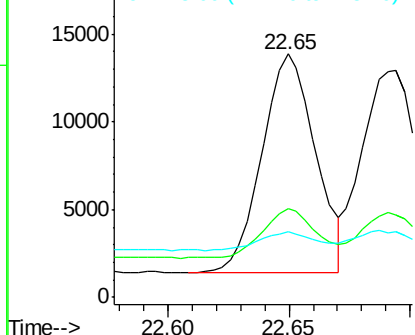
252 100

253 36.3 22.4 33.6#

125 27.0 9.4 14.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.356 ng

RT: 22.69 min Scan# 2373

Delta R.T. 0.01 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

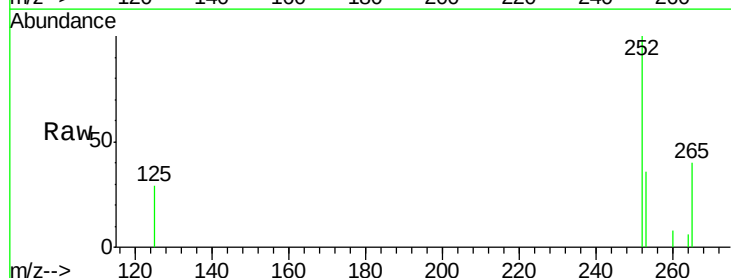
Tgt Ion:252 Resp: 19007

Ion Ratio Lower Upper

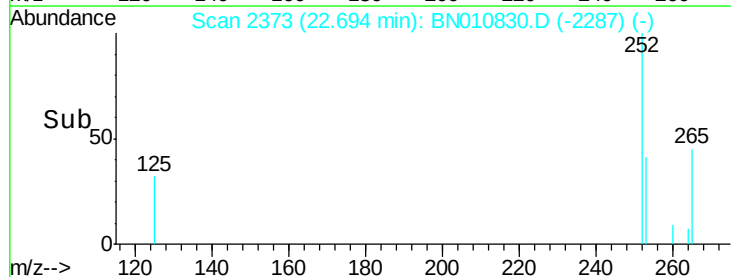
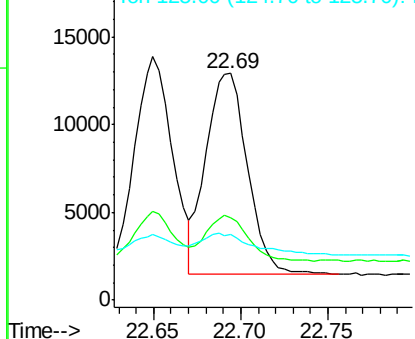
252 100

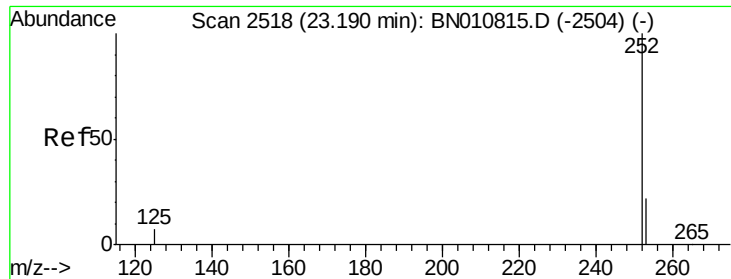
253 36.4 22.2 33.4#

125 28.8 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.405 ng

RT: 23.19 min Scan# 2519

Delta R.T. 0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD

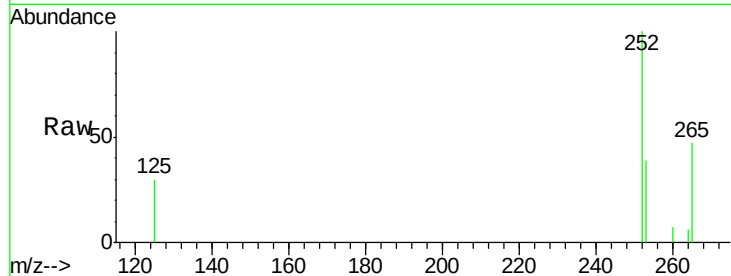
Tot Ion:252 Resp: 17407

Ion Ratio Lower Upper

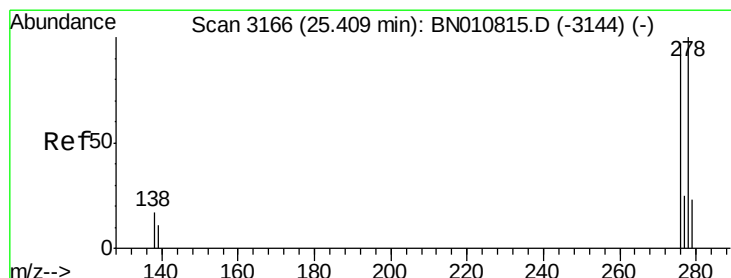
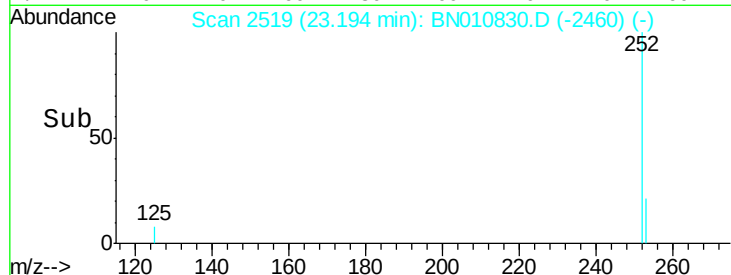
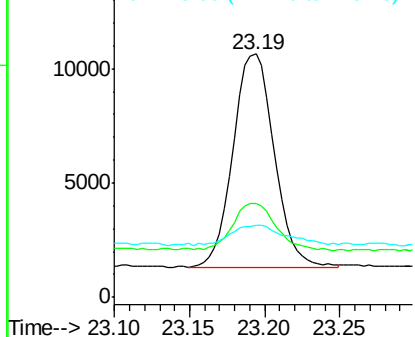
252 100

253 38.5 25.8 38.8

125 29.7 12.4 18.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.335 ng

RT: 25.41 min Scan# 3167

Delta R.T. 0.00 min

Lab File: BN010830.D

Acq: 10 Jun 2020 22:51

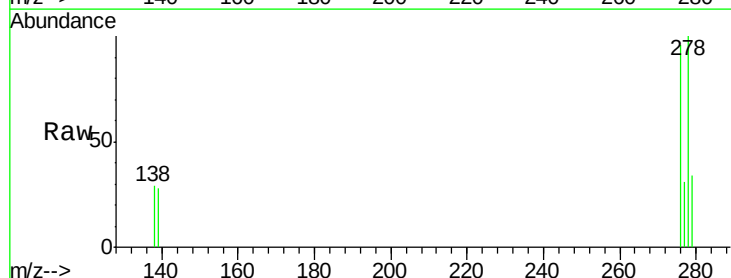
Tgt Ion:278 Resp: 16433

Ion Ratio Lower Upper

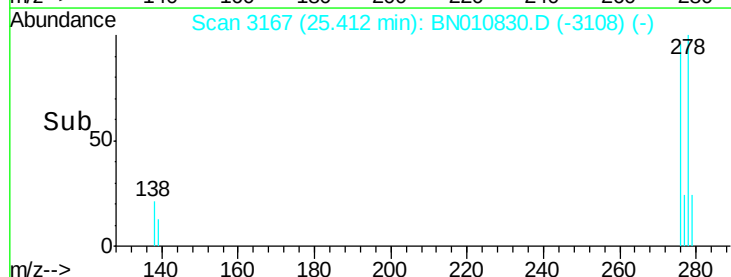
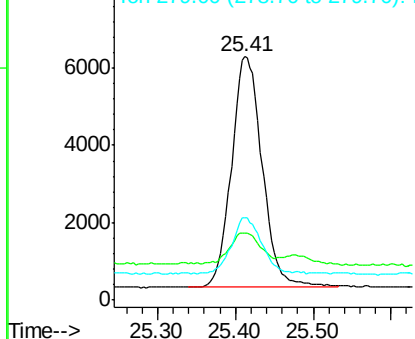
278 100

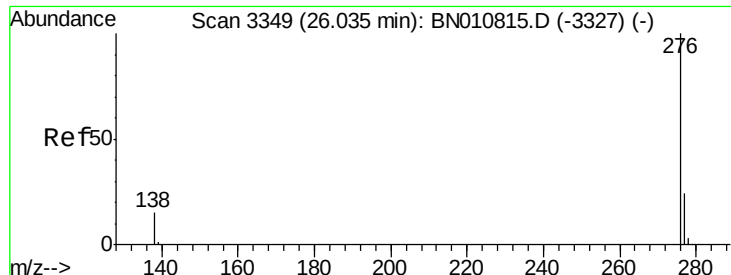
139 27.7 10.6 15.8#

279 33.6 23.6 35.4



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.336 ng

RT: 26.04 min Scan# 3351

Delta R.T. 0.01 min

Lab File: BN010830.D

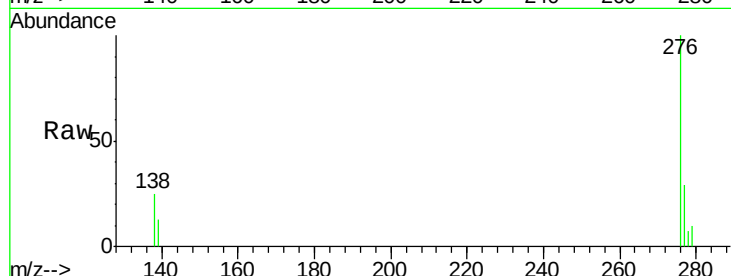
Acq: 10 Jun 2020 22:51

Instrument :

BNA_N

ClientSampleId :

VE-4-11MSD



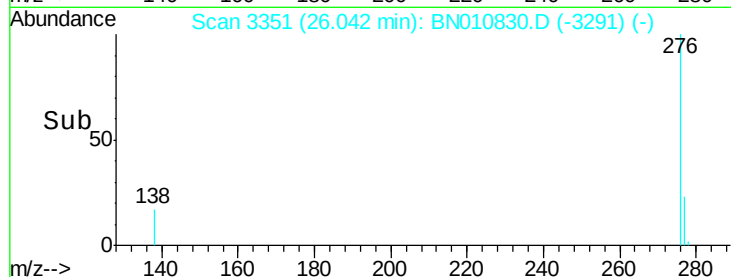
Tot Ion: 276 Resp: 17204

Ion Ratio Lower Upper

276 100

277 28.7 20.5 30.7

138 24.5 13.7 20.5#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

