

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN073118\
 Data File : BN002205.D
 Acq On : 31 Jul 2018 11:34
 Operator : JU/SJ
 Sample : J4086-02DL 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Jul 31 16:02:34 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 16:17:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	3701	0.40	ng	0.00
7) Naphthalene-d8	10.47	136	16209	0.40	ng	0.00
13) Acenaphthene-d10	14.32	164	9165	0.40	ng	0.00
19) Phenanthrene-d10	17.07	188	19869	0.40	ng	0.00
27) Chrysene-d12	21.27	240	14883	0.40	ng	0.00
34) Perylene-d12	23.49	264	12462	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.32	112	240	0.03	ng	0.00
5) Phenol-d6	6.88	99	309	0.03	ng	0.00
8) Nitrobenzene-d5	8.84	82	361	0.03	ng	0.00
11) 2-Methylnaphthalene-d10	12.06	152	665	0.03	ng	0.00
14) 2,4,6-Tribromophenol	15.83	330	132	0.03	ng	0.00
15) 2-Fluorobiphenyl	12.94	172	1102	0.03	ng	0.00
25) Fluoranthene-d10	19.10	212	1579	0.03	ng	0.00
29) Terphenyl-d14	19.71	244	1119	0.04	ng	0.00

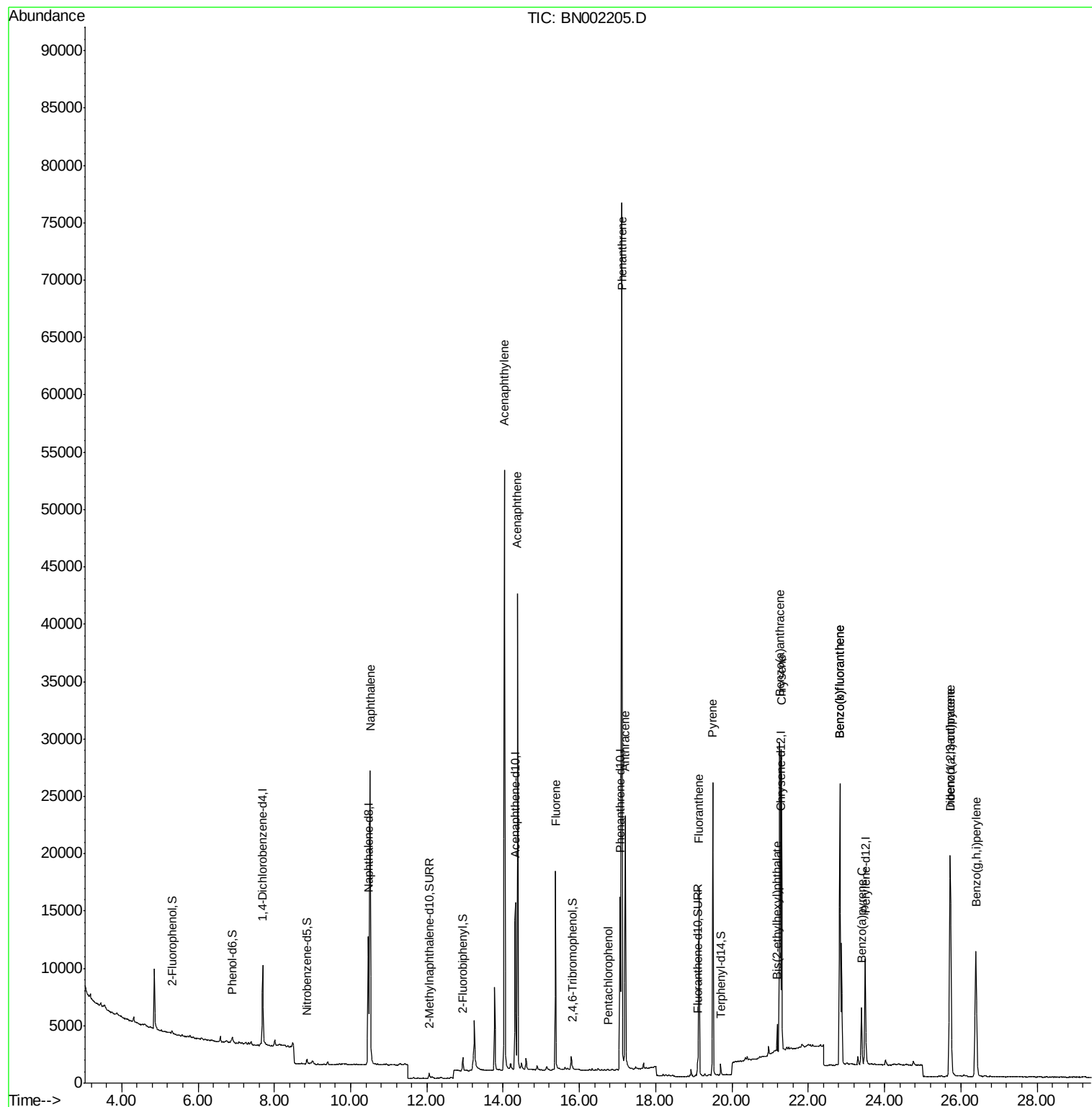
Target Compounds				Qvalue		
9) Naphthalene	10.52	128	39162	1.072	ng	97
16) Acenaphthylene	14.03	152	60509	1.545	ng	100
17) Acenaphthene	14.38	154	20515	0.815	ng	97
18) Fluorene	15.37	166	11300	0.365	ng	# 80
22) Pentachlorophenol	16.75	266	33	0.104	ng	# 65
23) Phenanthrene	17.11	178	84648	1.712	ng	99
24) Anthracene	17.20	178	25268	0.618	ng	96
26) Fluoranthene	19.14	202	15854	0.295	ng	98
28) Pyrene	19.50	202	23601	0.536	ng	99
30) Benzo(a)anthracene	21.25	228	21386	0.571	ng	97
31) Chrysene	21.30	228	21077	0.503	ng	99
32) Bis(2-ethylhexyl)phthalate	21.18	149	2041	0.119	ng	# 94
33) Indeno(1,2,3-cd)pyrene	25.72	276	18840	0.477	ng	97
35) Benzo(b)fluoranthene	22.83	252	31341	0.855	ng	# 90
36) Benzo(k)fluoranthene	22.83	252	31341	0.824	ng	93
37) Benzo(a)pyrene	23.40	252	6803	0.205	ng	# 80
38) Dibenzo(a,h)anthracene	25.73	278	22615	0.700	ng	# 95
39) Benzo(a,h,i)perylene	26.40	276	23103	0.700	ng	# 92

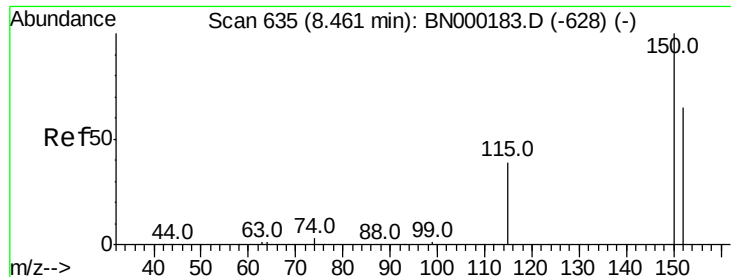
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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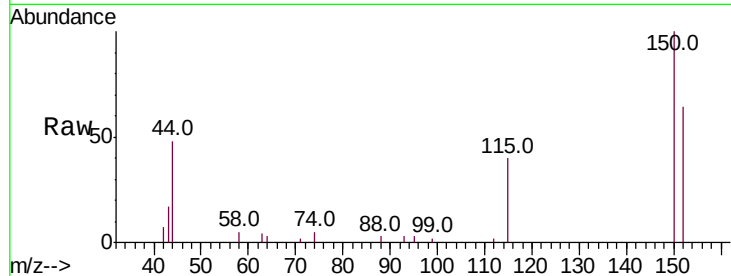


#1

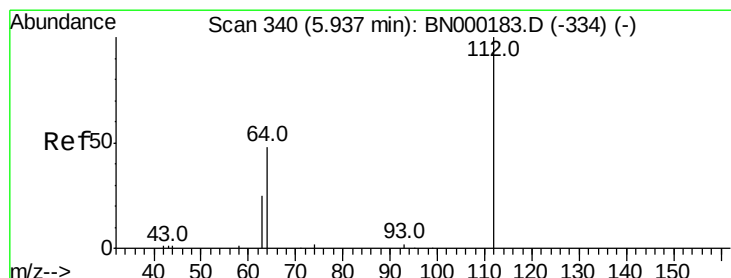
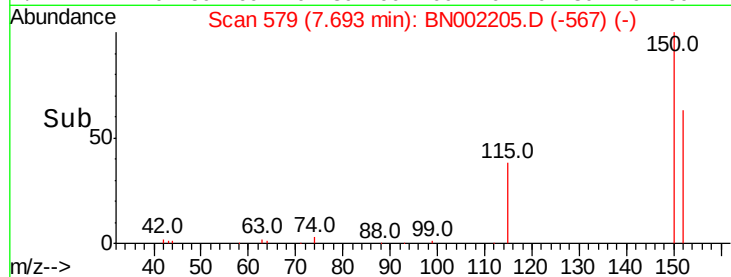
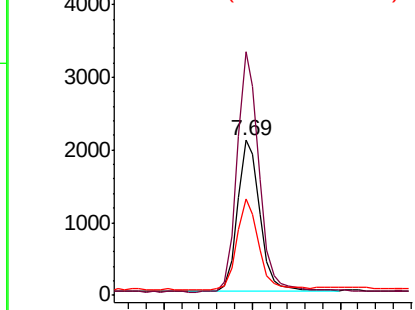
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 579
Delta R.T. -0.00 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 3701
Ion Ratio Lower Upper
152 100
150 157.3 117.2 175.8
115 62.5 57.0 85.6



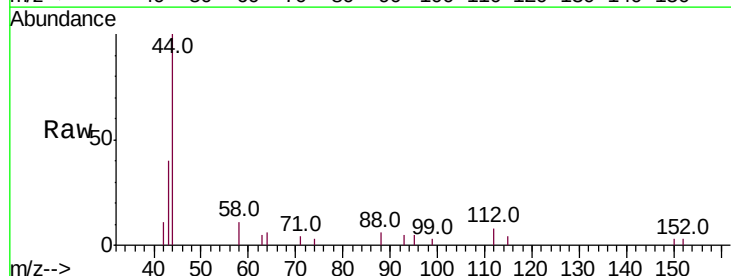
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



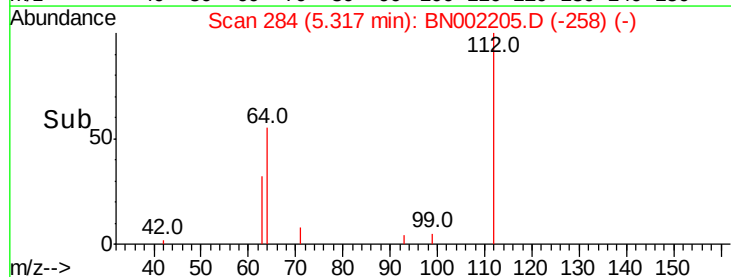
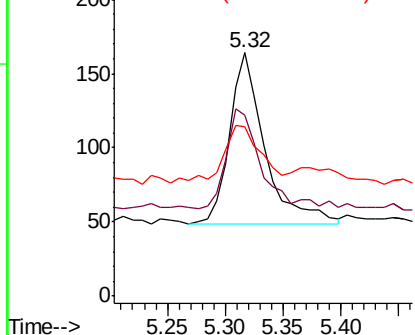
#4

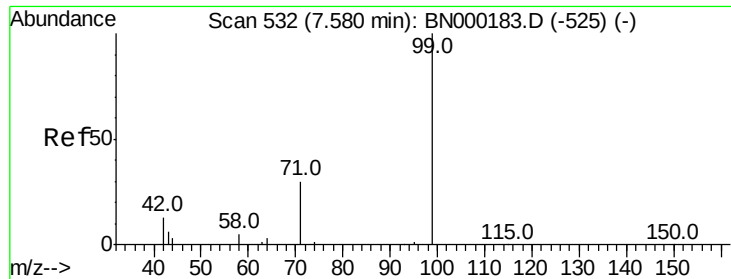
2-Fluorophenol
Concen: 0.028 ng
RT: 5.32 min Scan# 284
Delta R.T. 0.01 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Tgt Ion:112 Resp: 240
Ion Ratio Lower Upper
112 100
64 59.6 60.1 90.1#
63 36.3 116.8 175.2#



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





#5

Phenol-d6

Concen: 0.029 ng

RT: 6.88 min Scan# 478

Delta R.T. -0.00 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

Instrument :

BNA_N

ClientSampleId :

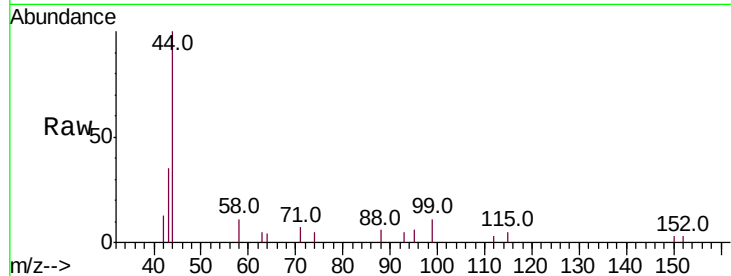
Tot Ion: 99 Resp: 309

Ion Ratio Lower Upper

99 100

42 0.0 20.2 30.2#

71 38.8 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BN0

Ion 42.00 (41.70 to 42.70): BN0

Ion 71.00 (70.70 to 71.70): BN0

6.88

200

150

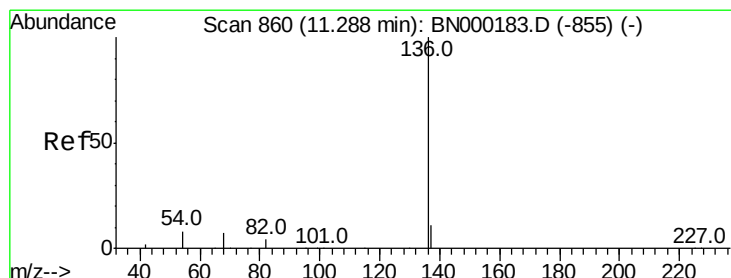
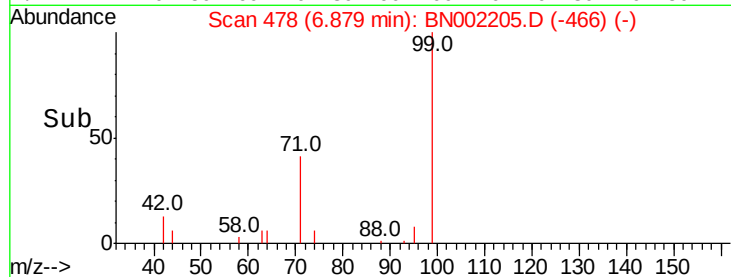
100

50

0

6.80 6.90

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.00 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

Tgt Ion: 136 Resp: 16209

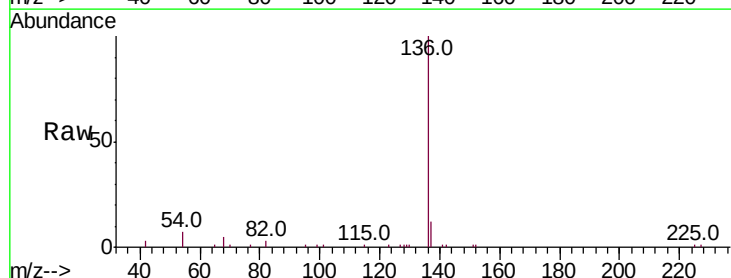
Ion Ratio Lower Upper

136 100

137 11.6 9.5 14.3

54 6.6 29.1 43.7#

68 4.9 6.2 9.2#



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): BN0

Ion 68.00 (67.70 to 68.70): BN0

10.47

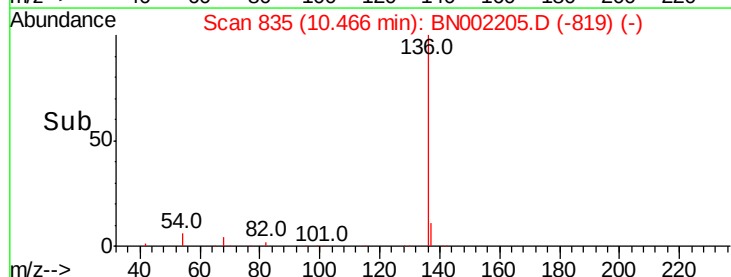
10000

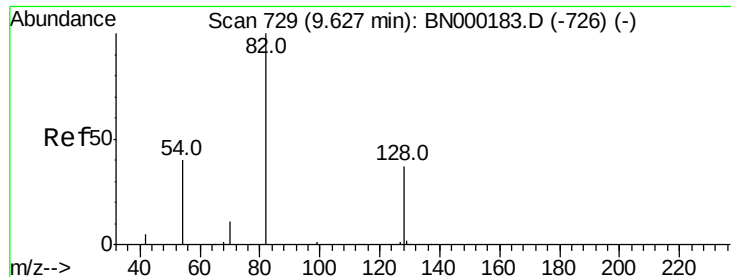
5000

0

10.40 10.60

Time-->





#8

Nitrobenzene-d5

Concen: 0.030 ng

RT: 8.84 min Scan# 707

Delta R.T. -0.00 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

Instrument :

BNA_N

ClientSampleId :

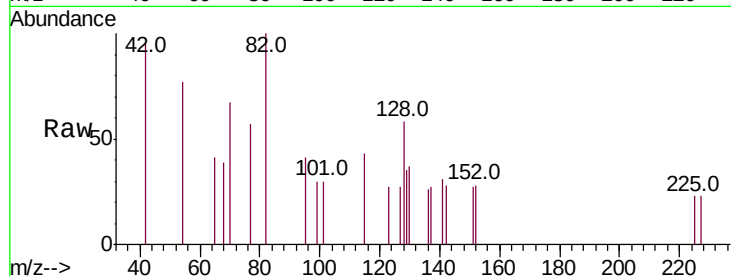
Tot Ion: 82 Resp: 361

Ion Ratio Lower Upper

82 100

128 57.8 150.0 225.0#

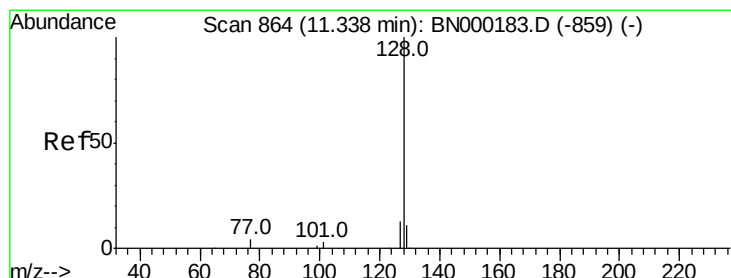
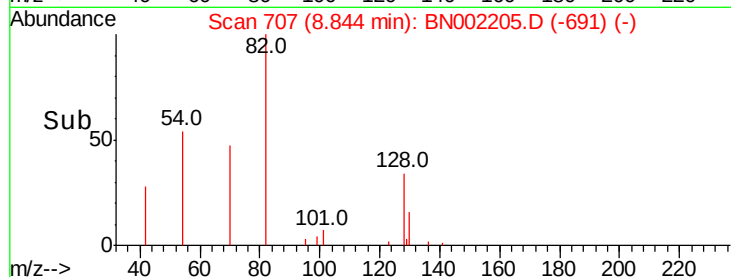
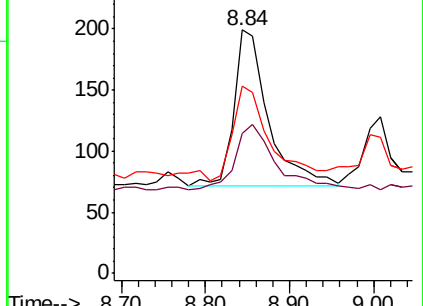
54 76.9 154.2 231.4#



Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): BNC

Ion 54.00 (53.70 to 54.70): BNC



#9

Naphthalene

Concen: 1.072 ng

RT: 10.52 min Scan# 839

Delta R.T. -0.00 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

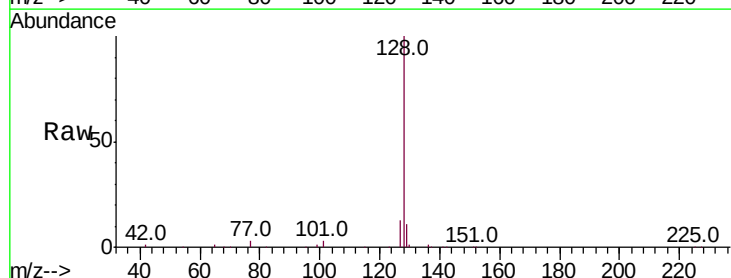
Tgt Ion: 128 Resp: 39162

Ion Ratio Lower Upper

128 100

129 11.3 8.0 12.0

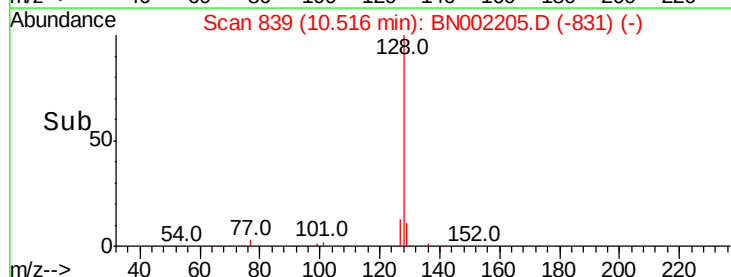
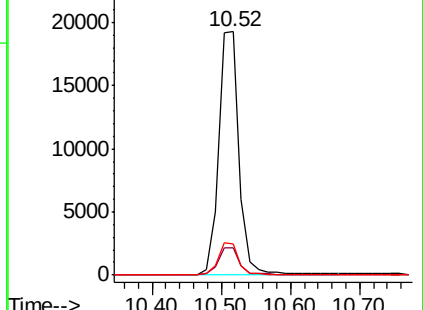
127 13.0 9.6 14.4

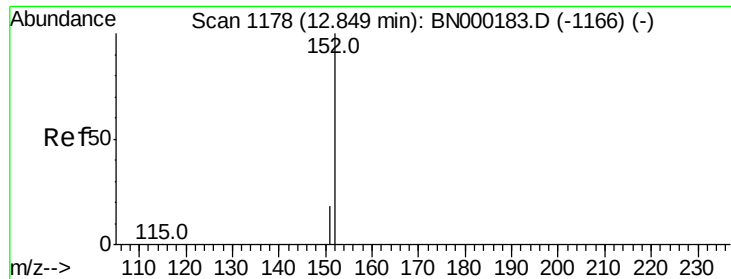


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

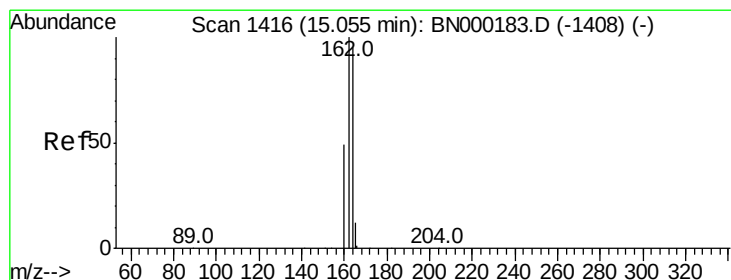
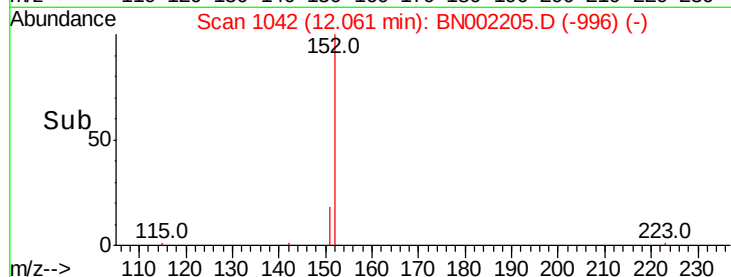
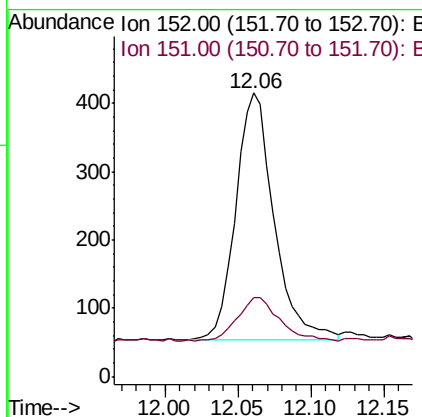
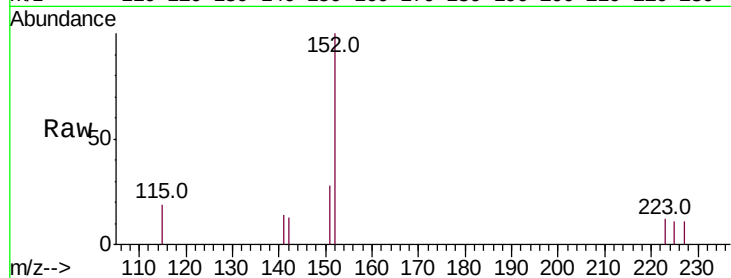




#11
2-Methylnaphthalene-d10
Concen: 0.028 ng
RT: 12.06 min Scan# 1042
Delta R.T. 0.00 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

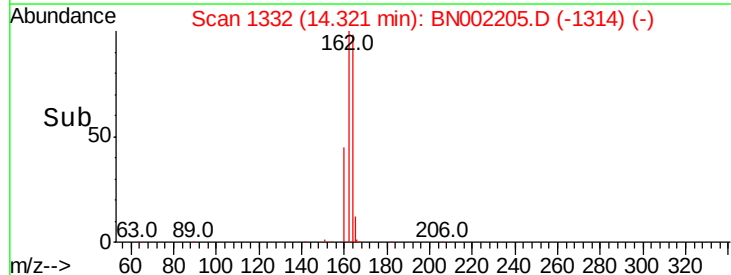
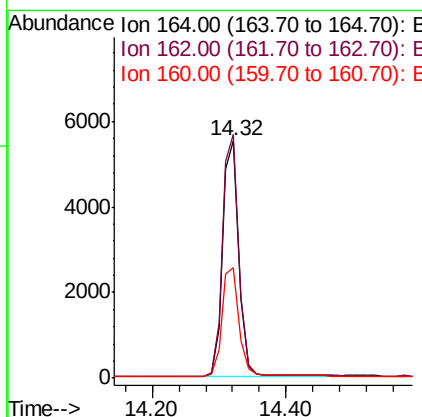
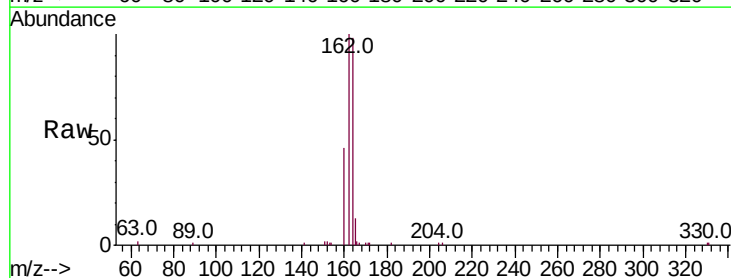
Instrument :
BNA_N
ClientSampleId :

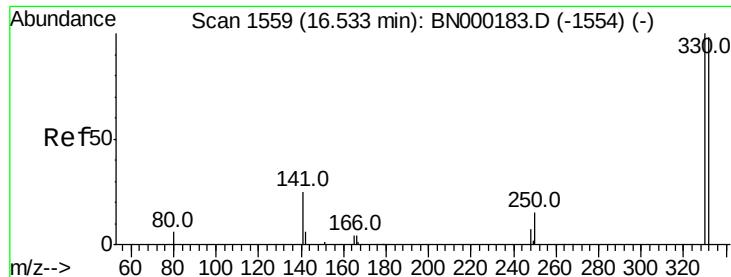
Tot Ion:152 Resp: 665
Ion Ratio Lower Upper
152 100
151 19.7 15.4 23.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.32 min Scan# 1332
Delta R.T. -0.00 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Tgt Ion:164 Resp: 9165
Ion Ratio Lower Upper
164 100
162 102.4 83.1 124.7
160 46.7 37.1 55.7





#14

2,4,6-Tribromophenol

Concen: 0.034 ng

RT: 15.83 min Scan# 1467

Delta R.T. -0.00 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

Instrument :

BNA_N

ClientSampleId :

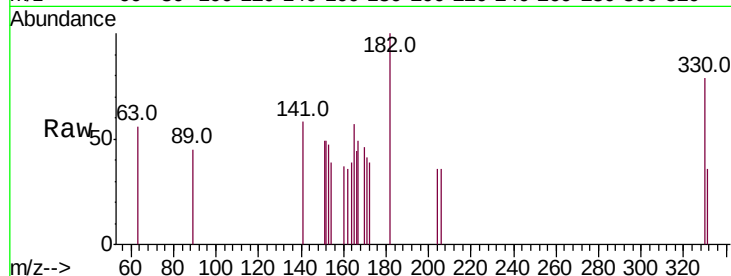
Tot Ion:330 Resp: 132

Ion Ratio Lower Upper

330 100

332 0.0 152.7 229.1#

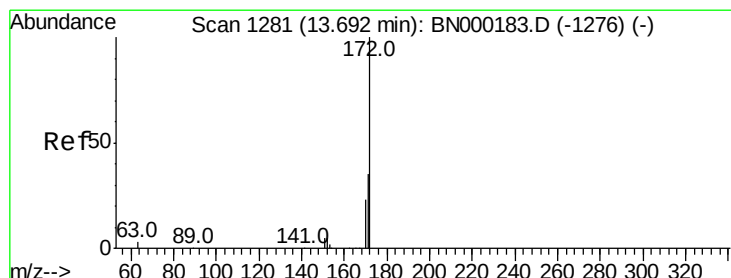
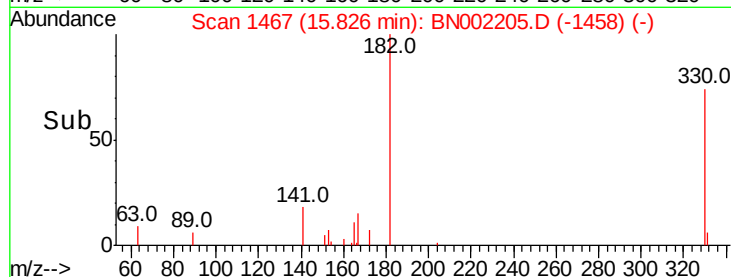
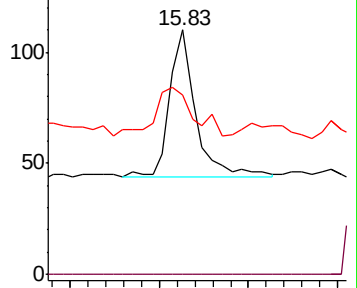
141 53.8 33.7 50.5#



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: 0.031 ng

RT: 12.94 min Scan# 1208

Delta R.T. -0.00 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

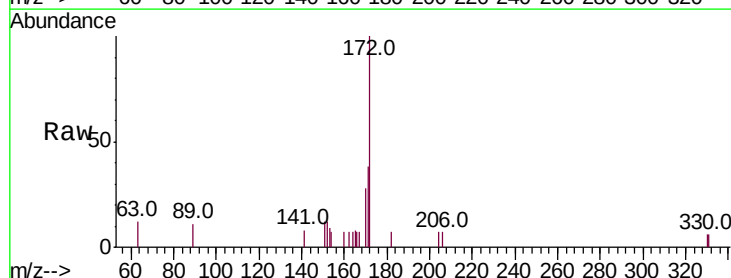
Tgt Ion:172 Resp: 1102

Ion Ratio Lower Upper

172 100

171 38.5 29.9 44.9

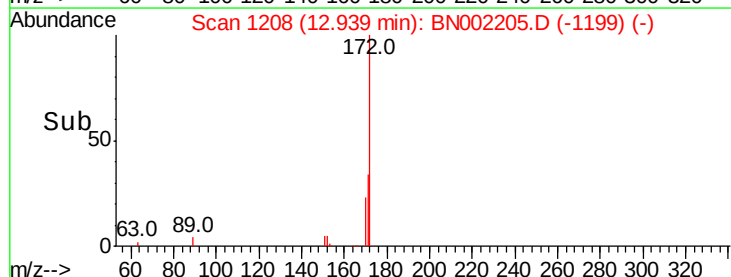
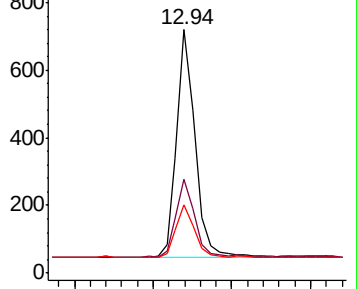
170 27.9 21.8 32.8

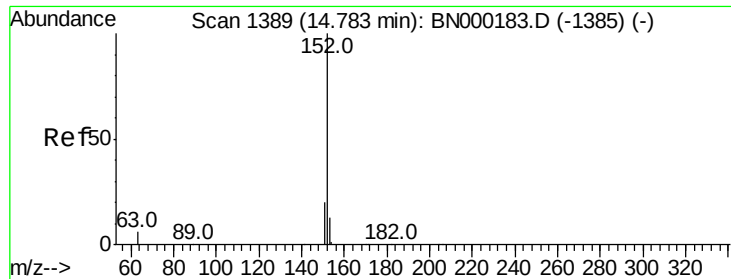


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#16

Acenaphthylene

Concen: 1.545 ng

RT: 14.03 min Scan# 1306

Delta R.T. -0.00 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

Instrument :

BNA_N

ClientSampleId :

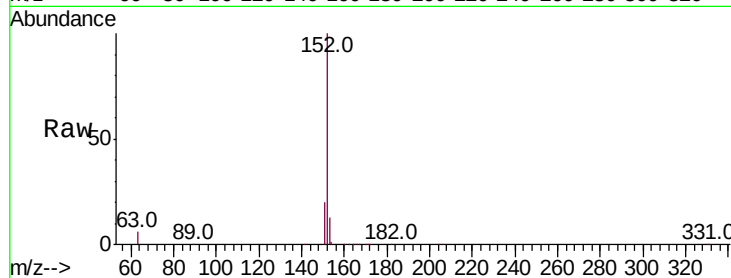
Tot Ion:152 Resp: 60509

Ion Ratio Lower Upper

152 100

151 19.7 15.7 23.5

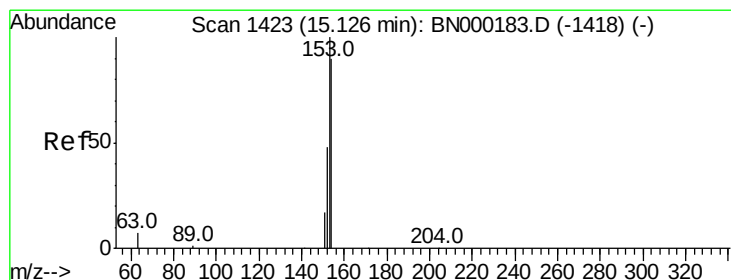
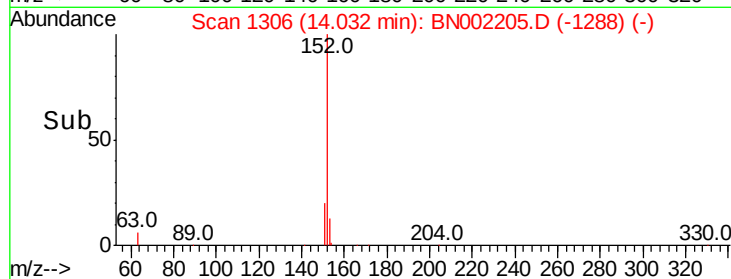
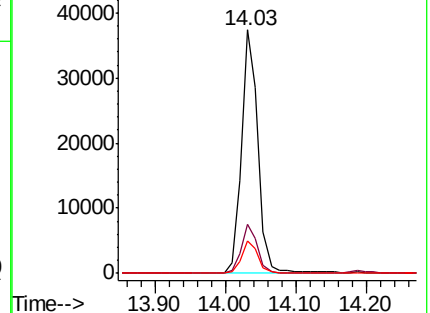
153 13.0 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Acenaphthene

Concen: 0.815 ng

RT: 14.38 min Scan# 1337

Delta R.T. -0.00 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

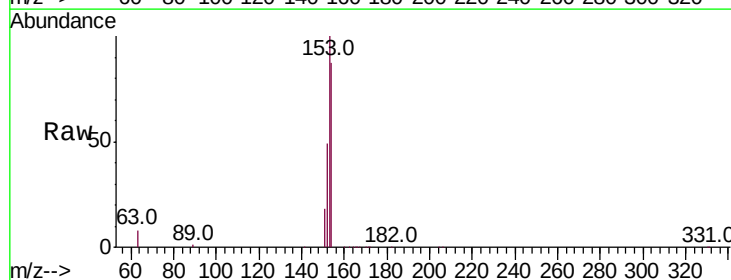
Tgt Ion:154 Resp: 20515

Ion Ratio Lower Upper

154 100

153 113.6 89.2 133.8

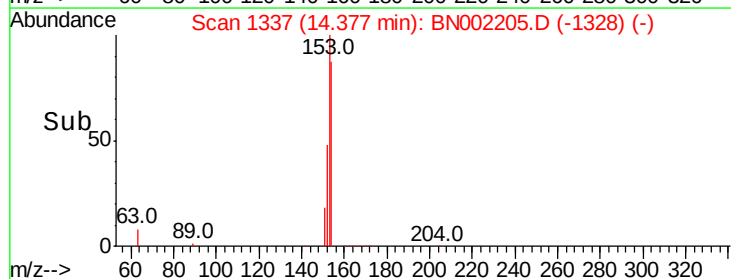
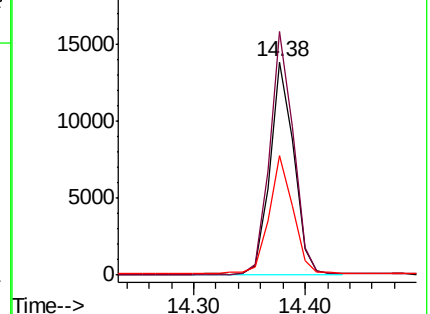
152 55.5 42.0 63.0

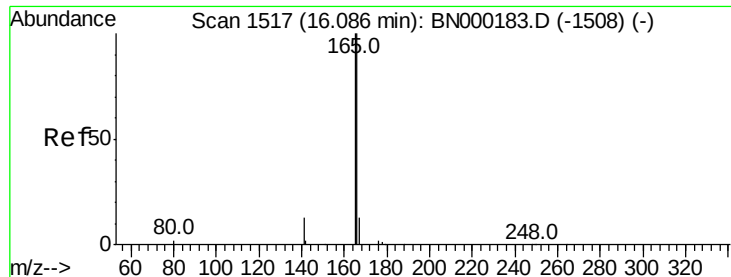


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

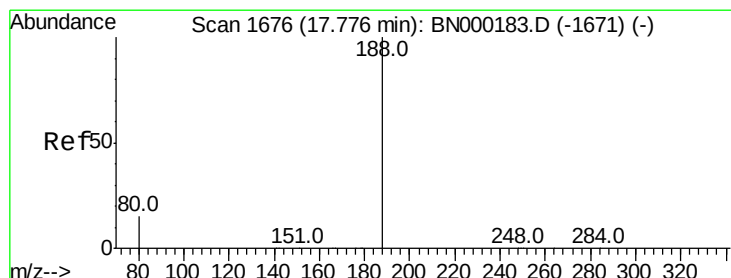
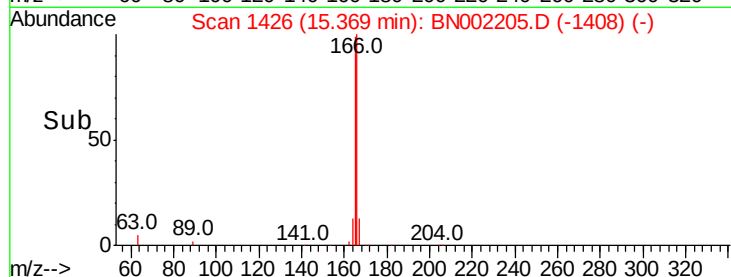
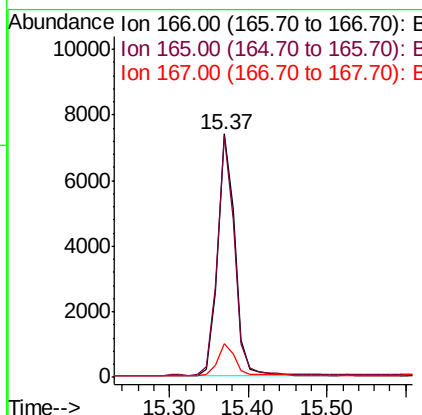
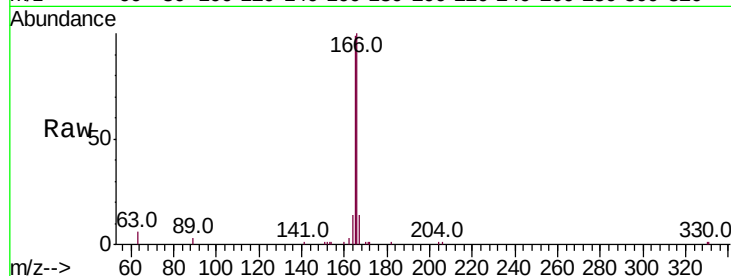




#18
 Fluorene
 Concen: 0.365 ng
 RT: 15.37 min Scan# 1426
 Delta R.T. -0.00 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

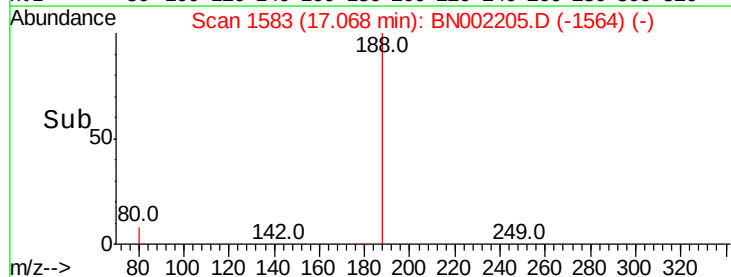
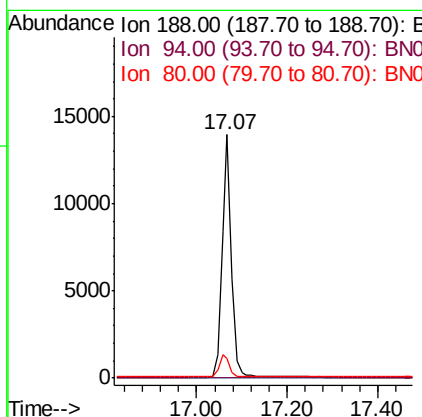
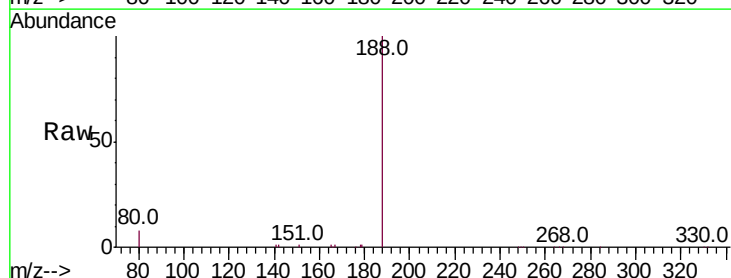
Instrument :
 BNA_N
 ClientSampleId :

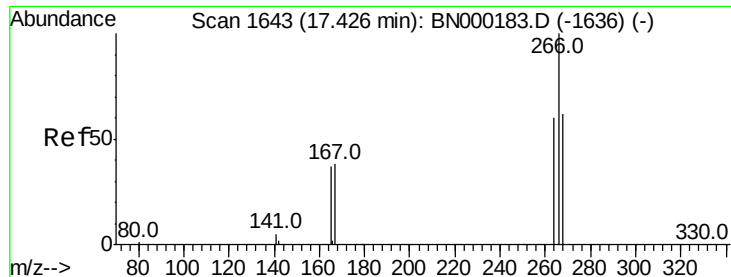
Tot Ion:166 Resp: 11300
 Ion Ratio Lower Upper
 166 100
 165 97.4 77.8 116.6
 167 14.0 42.4 63.6#



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.07 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

Tgt Ion:188 Resp: 19869
 Ion Ratio Lower Upper
 188 100
 94 0.0 3.9 5.9#
 80 8.3 3.6 5.4#

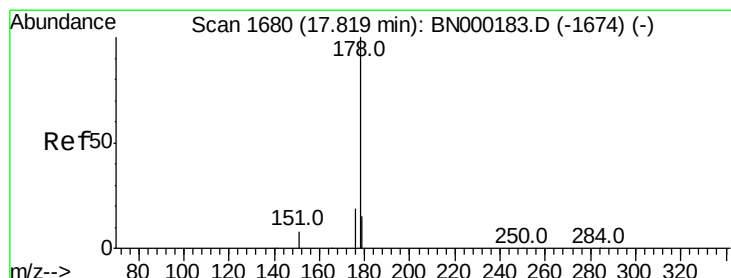
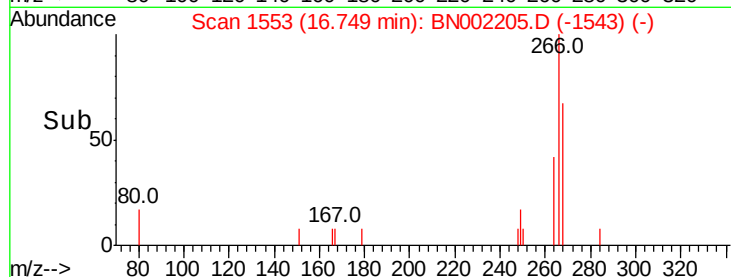
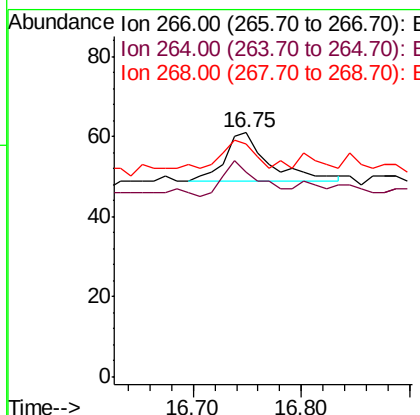
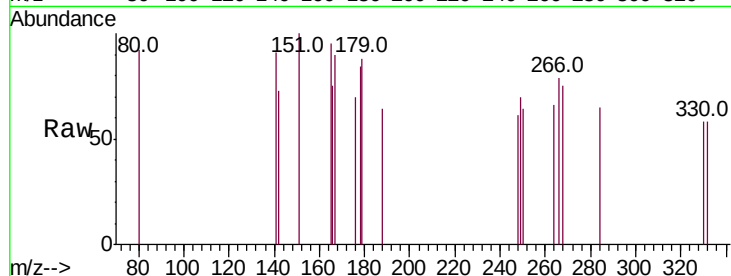




#22
 Pentachlorophenol
 Concen: 0.104 ng
 RT: 16.75 min Scan# 1553
 Delta R.T. 0.01 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

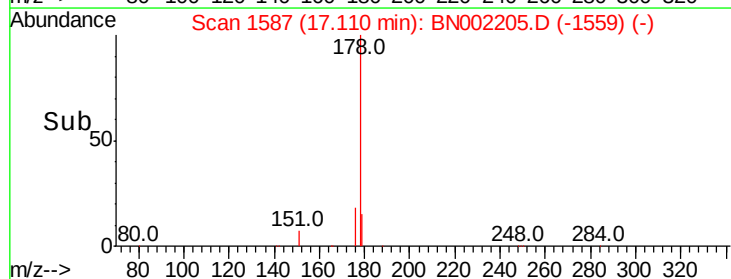
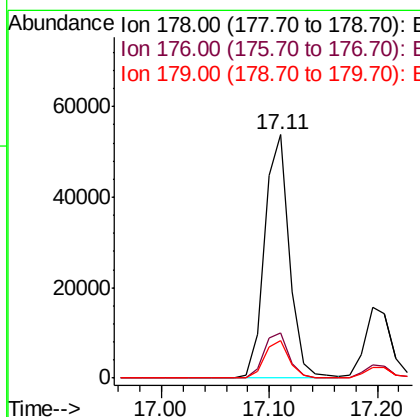
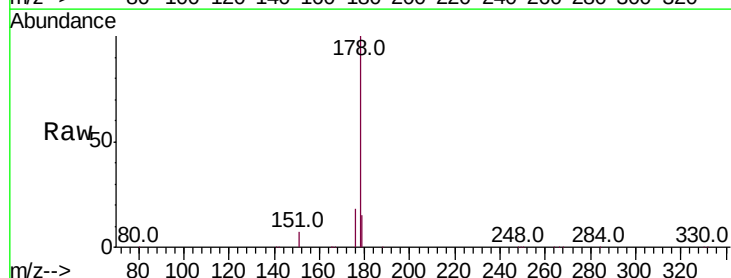
Instrument :
 BNA_N
 ClientSampleId :

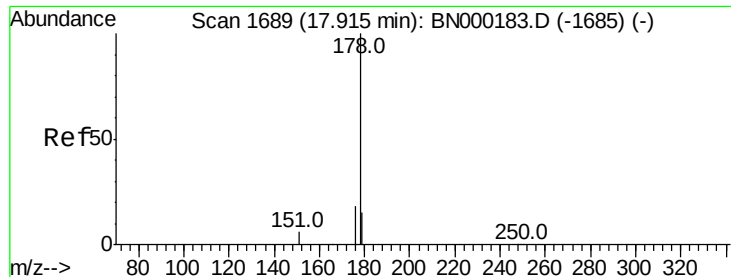
Tot Ion:266 Resp: 33
 Ion Ratio Lower Upper
 266 100
 264 83.6 48.0 72.0#
 268 95.1 52.0 78.0#



#23
 Phenanthrene
 Concen: 1.712 ng
 RT: 17.11 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

Tgt Ion:178 Resp: 84648
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 15.3 11.8 17.6





#24

Anthracene

Concen: 0.618 ng

RT: 17.20 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

Instrument :

BNA_N

ClientSampleId :

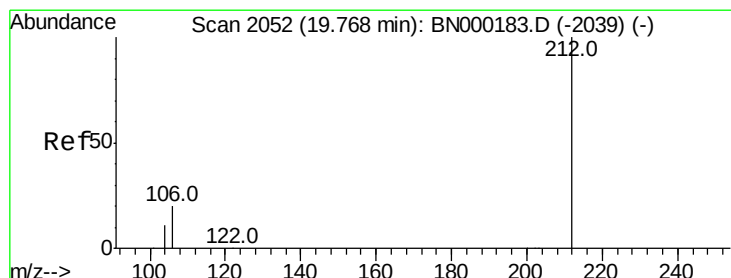
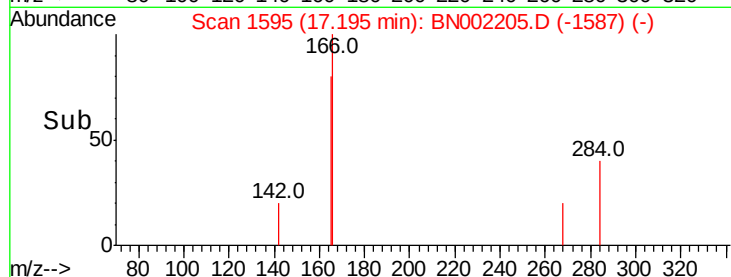
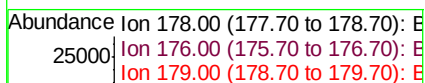
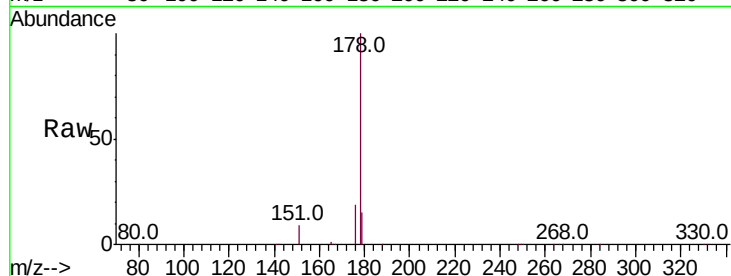
Tot Ion:178 Resp: 25268

Ion Ratio Lower Upper

178 100

176 18.1 12.8 19.2

179 15.2 13.0 19.6



#25

Fluoranthene-d10

Concen: 0.032 ng

RT: 19.10 min Scan# 1891

Delta R.T. -0.01 min

Lab File: BN002205.D

Acq: 31 Jul 2018 11:34

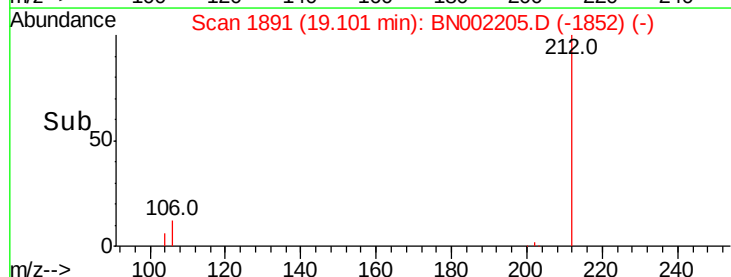
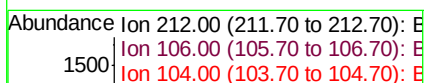
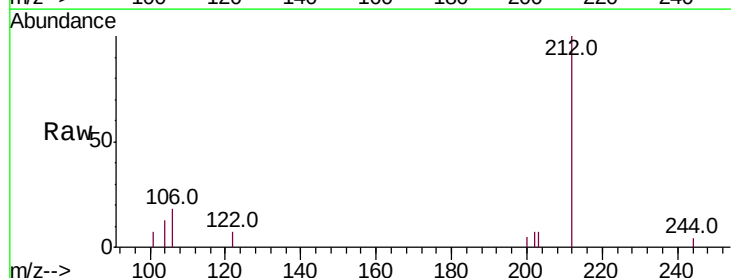
Tgt Ion:212 Resp: 1579

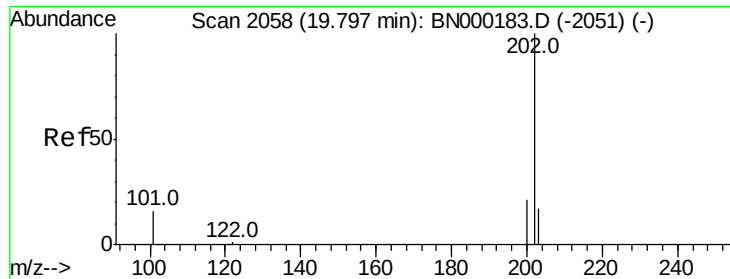
Ion Ratio Lower Upper

212 100

106 13.4 2.8 4.2#

104 7.2 1.6 2.4#

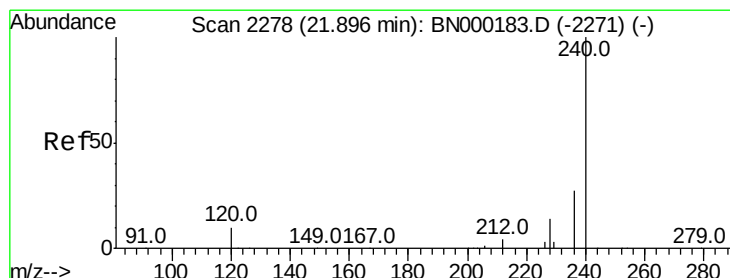
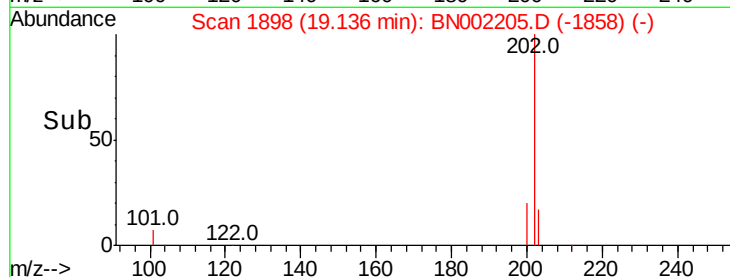
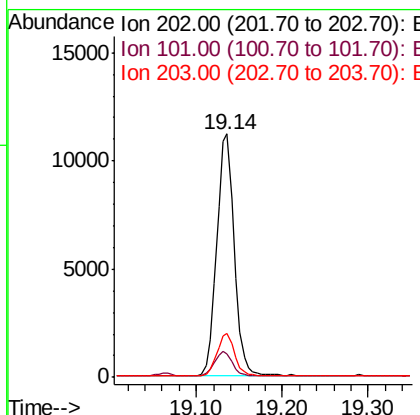
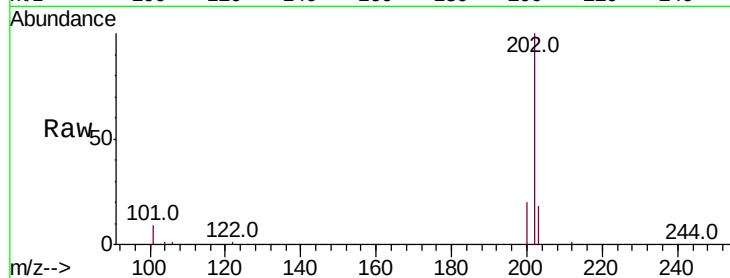




#26
 Fluoranthene
 Concen: 0.295 ng
 RT: 19.14 min Scan# 1898
 Delta R.T. -0.00 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

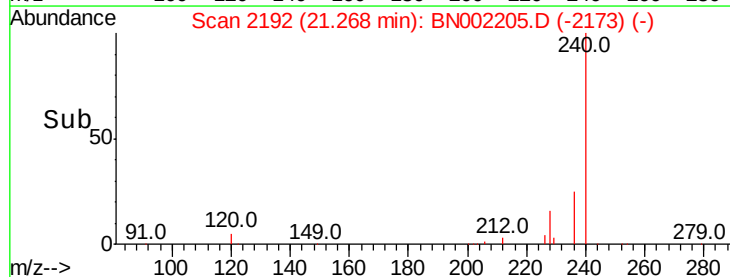
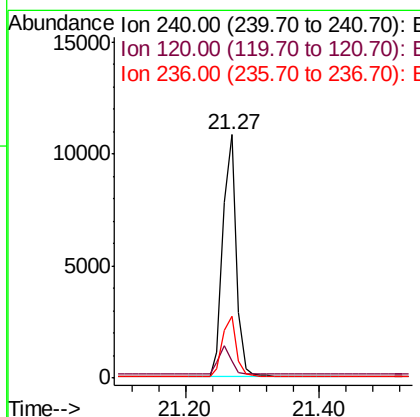
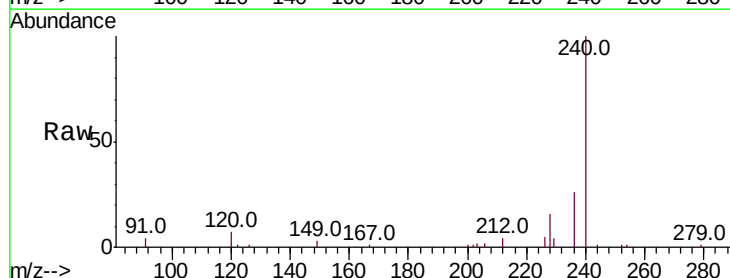
Instrument :
 BNA_N
 ClientSampleId :

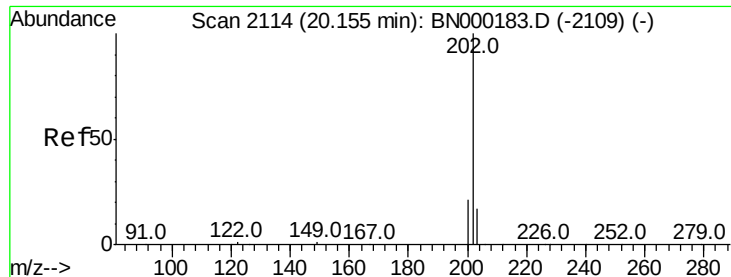
Tot Ion:202 Resp: 15854
 Ion Ratio Lower Upper
 202 100
 101 10.0 9.8 14.8
 203 17.1 13.7 20.5



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.27 min Scan# 2192
 Delta R.T. -0.00 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

Tgt Ion:240 Resp: 14883
 Ion Ratio Lower Upper
 240 100
 120 6.8 5.5 8.3
 236 25.6 20.7 31.1

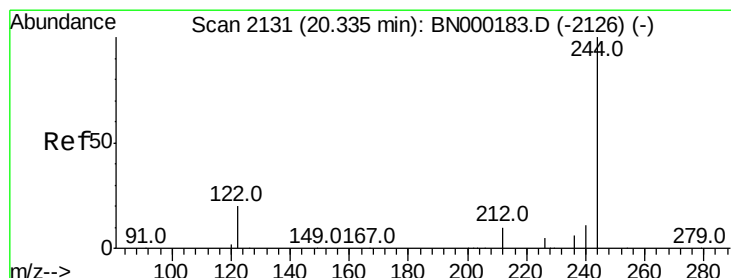
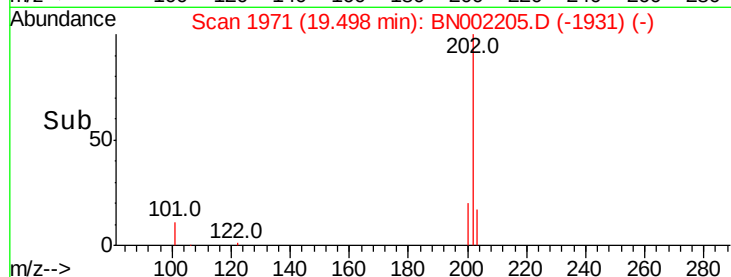
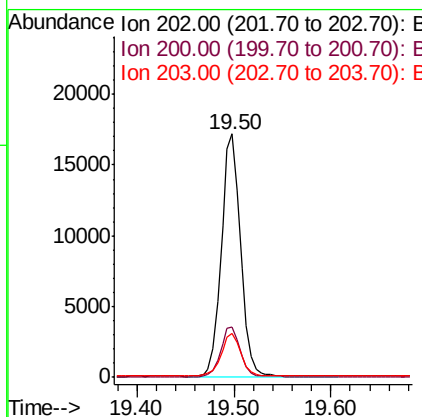
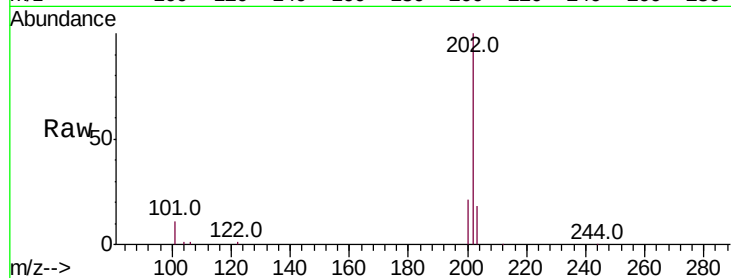




#28
 Pvrene
 Concen: 0.536 ng
 RT: 19.50 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

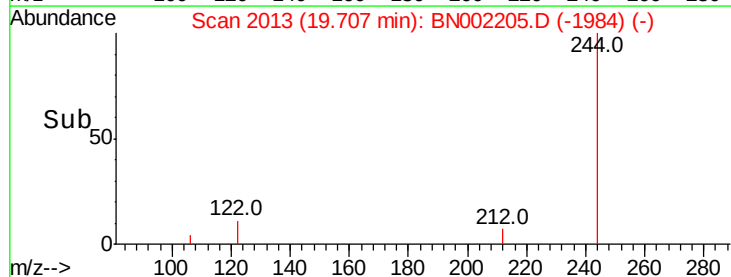
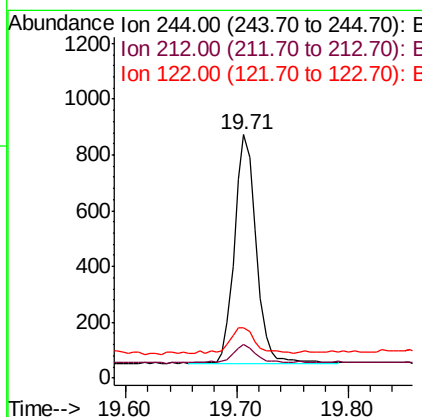
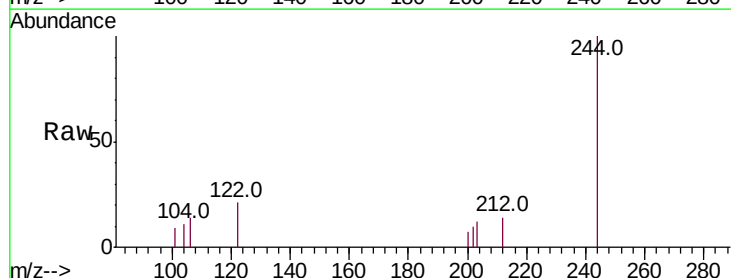
Instrument :
 BNA_N
 ClientSampleId :

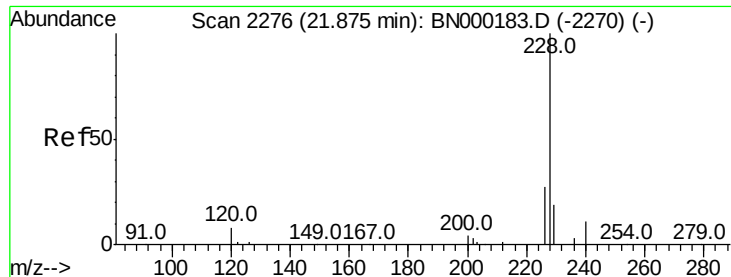
Tot Ion:202 Resp: 23601
 Ion Ratio Lower Upper
 202 100
 200 20.6 16.6 25.0
 203 17.7 13.8 20.8



#29
 Terphenyl-d14
 Concen: 0.035 ng
 RT: 19.71 min Scan# 2013
 Delta R.T. -0.01 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

Tgt Ion:244 Resp: 1119
 Ion Ratio Lower Upper
 244 100
 212 13.6 25.4 38.0#
 122 20.7 8.1 12.1#

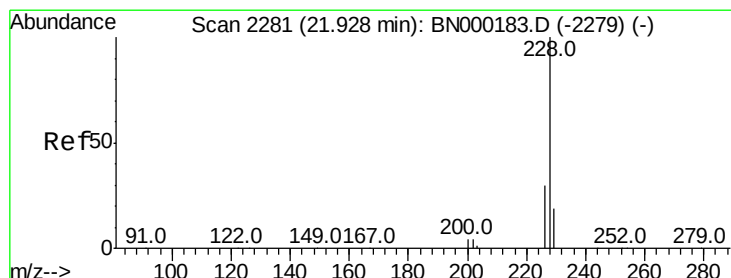
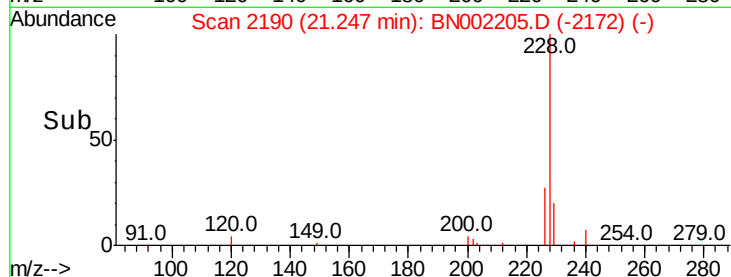
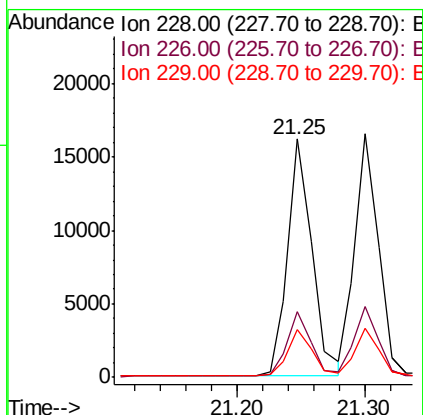
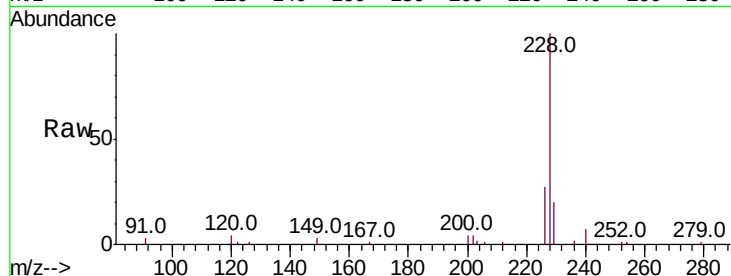




#30
Benzo(a)anthracene
Concen: 0.571 ng
RT: 21.25 min Scan# 2190
Delta R.T. -0.01 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

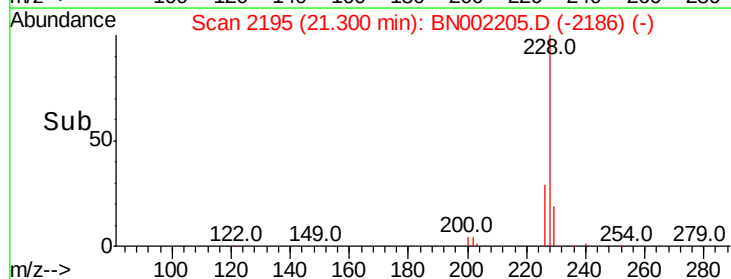
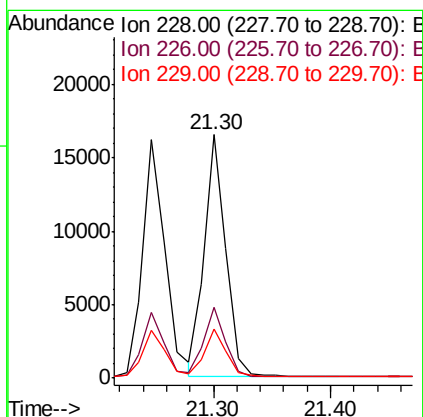
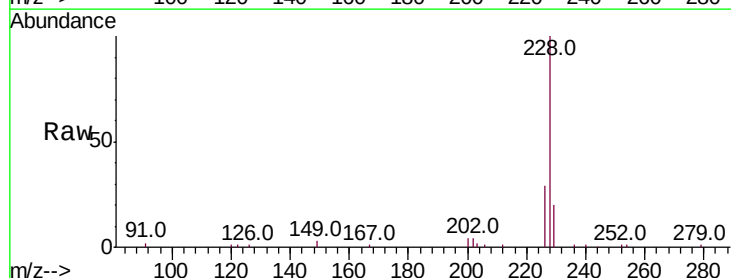
Instrument :
BNA_N
ClientSampleId :

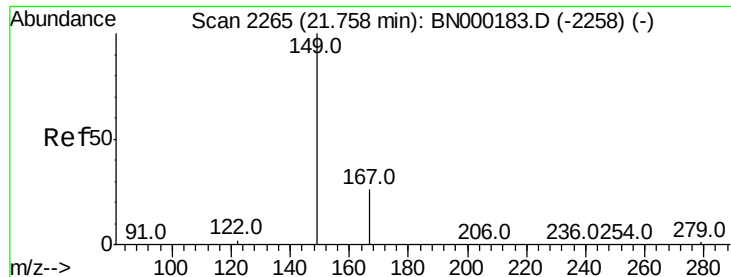
Tot Ion:228 Resp: 21386
Ion Ratio Lower Upper
228 100
226 27.3 24.0 36.0
229 20.0 16.0 24.0



#31
Chrysene
Concen: 0.503 ng
RT: 21.30 min Scan# 2195
Delta R.T. -0.00 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Tgt Ion:228 Resp: 21077
Ion Ratio Lower Upper
228 100
226 29.3 24.0 36.0
229 20.0 16.0 24.0

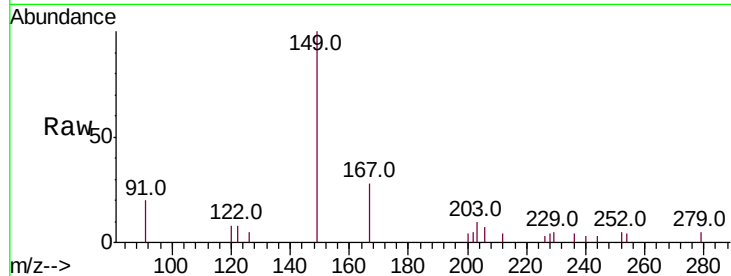




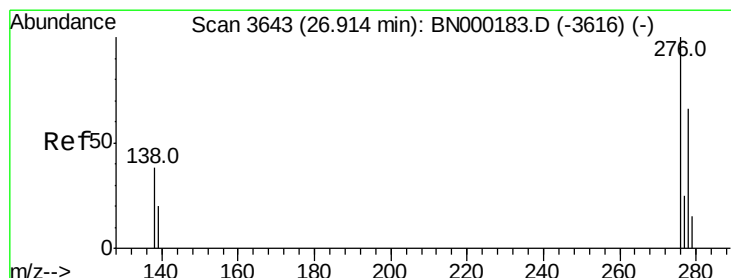
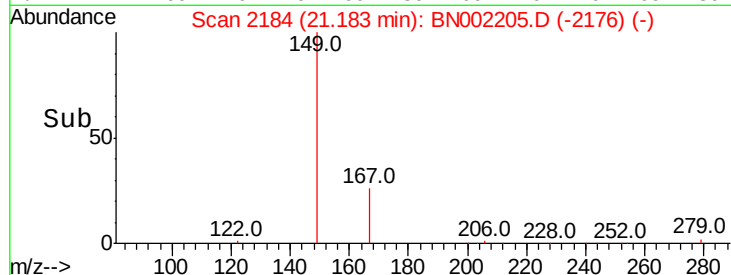
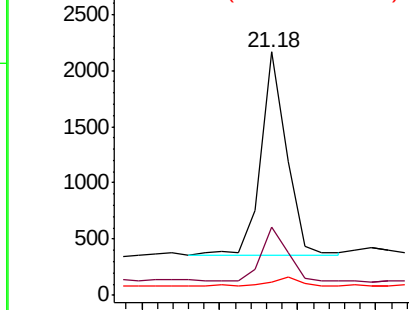
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.119 ng
 RT: 21.18 min Scan# 2184
 Delta R.T. -0.01 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:149 Resp: 2041
 Ion Ratio Lower Upper
 149 100
 167 27.9 20.0 30.0
 279 5.0 1.6 2.4#

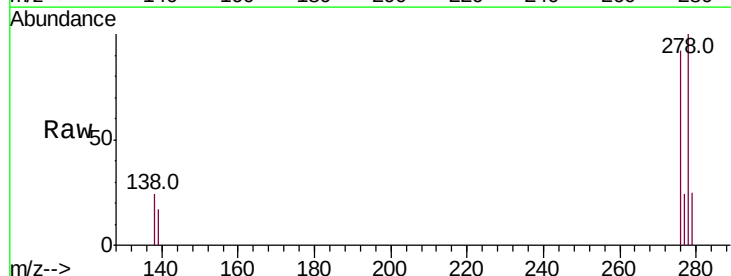


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

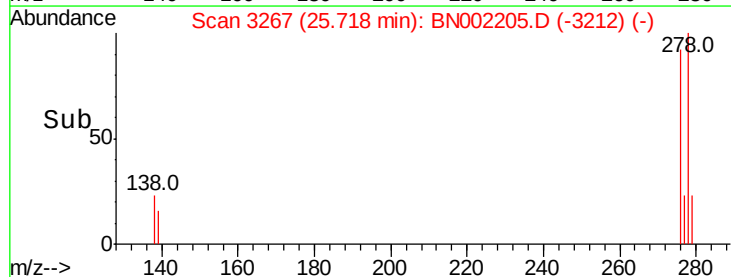
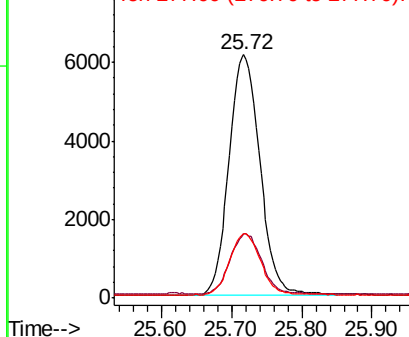


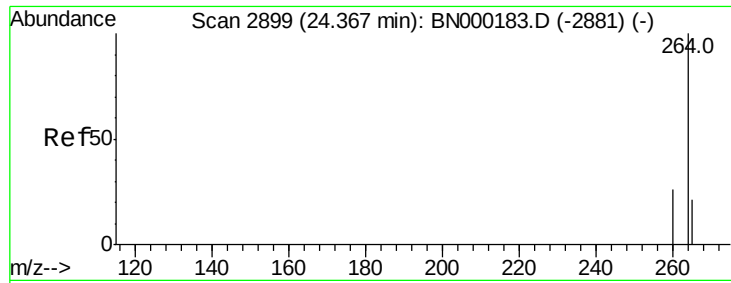
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.477 ng
 RT: 25.72 min Scan# 3267
 Delta R.T. -0.01 min
 Lab File: BN002205.D
 Acq: 31 Jul 2018 11:34

Tgt Ion:276 Resp: 18840
 Ion Ratio Lower Upper
 276 100
 138 25.0 22.5 33.7
 277 25.2 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

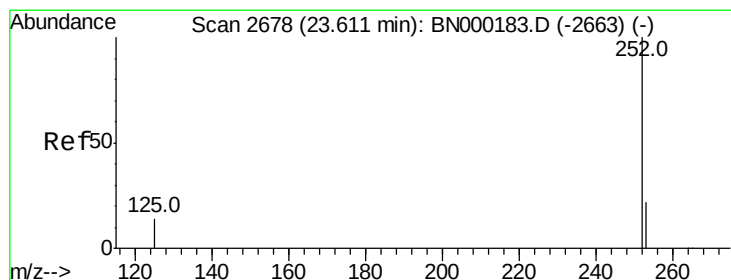
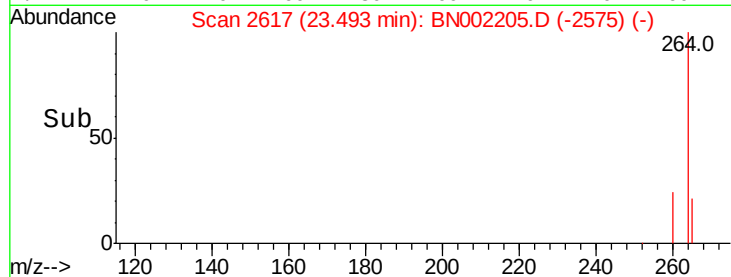
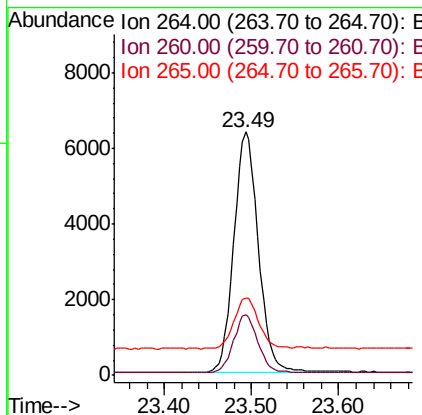
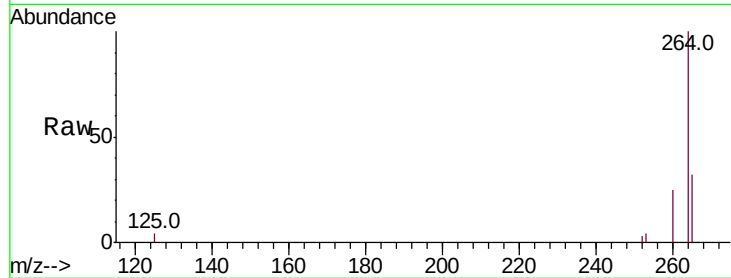




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.49 min Scan# 2617
Delta R.T. -0.01 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

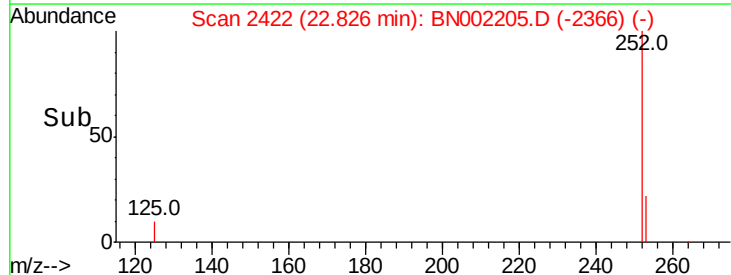
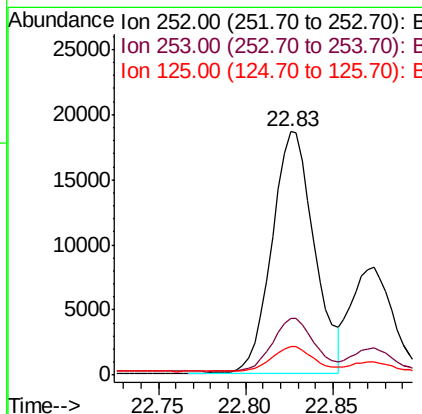
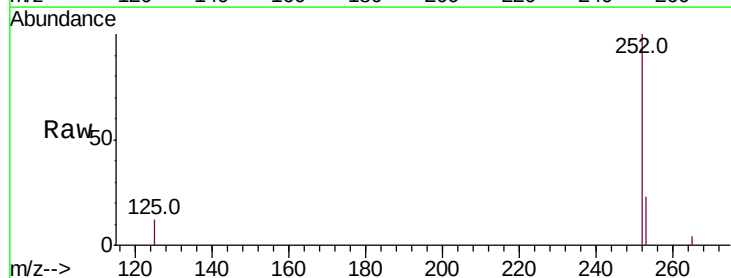
Instrument :
BNA_N
ClientSampleId :

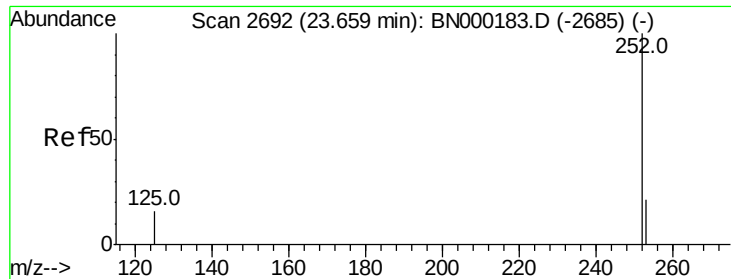
Tot Ion:264 Resp: 12462
Ion Ratio Lower Upper
264 100
260 25.0 20.5 30.7
265 31.8 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.855 ng
RT: 22.83 min Scan# 2422
Delta R.T. -0.01 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Tgt Ion:252 Resp: 31341
Ion Ratio Lower Upper
252 100
253 23.4 20.0 30.0
125 11.9 16.0 24.0#

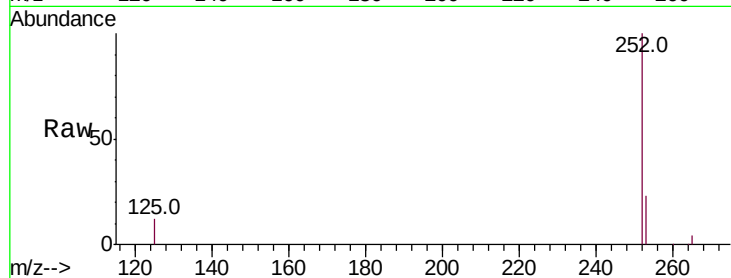




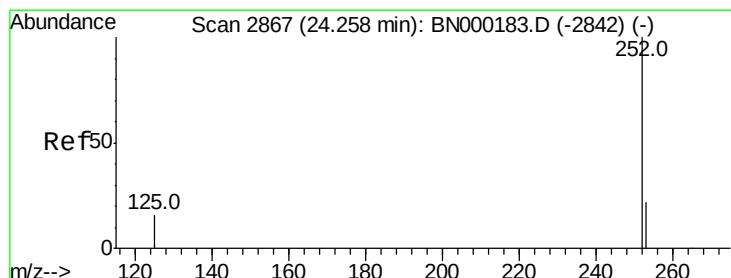
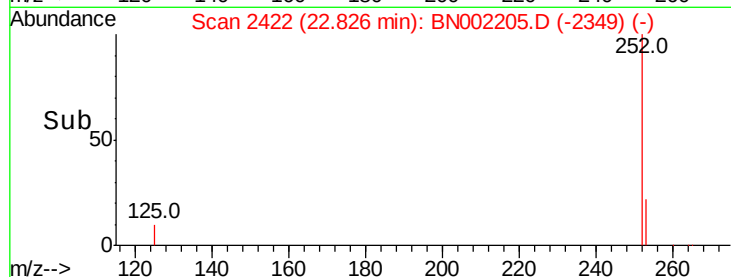
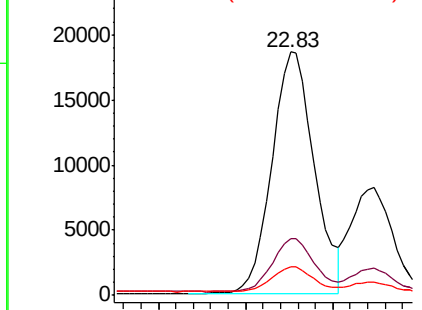
#36
Benzo(k)fluoranthene
Concen: 0.824 ng
RT: 22.83 min Scan# 2422
Delta R.T. -0.05 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 31341
Ion Ratio Lower Upper
252 100
253 23.4 16.0 24.0
125 11.9 8.0 12.0

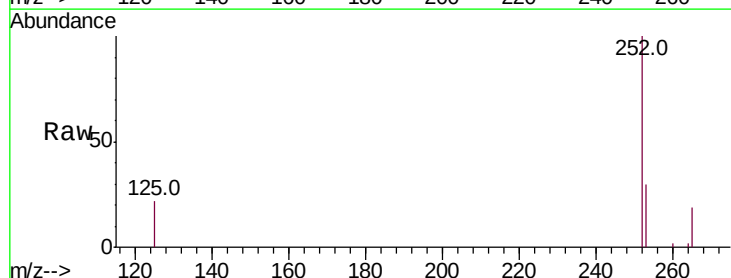


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

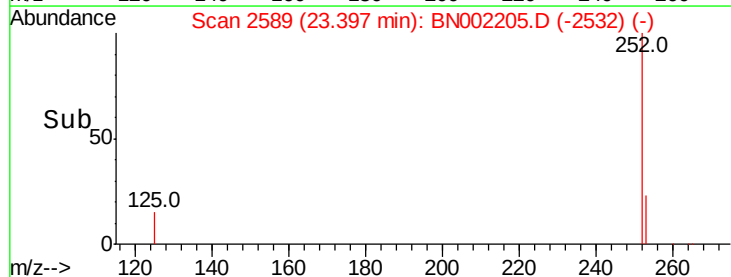
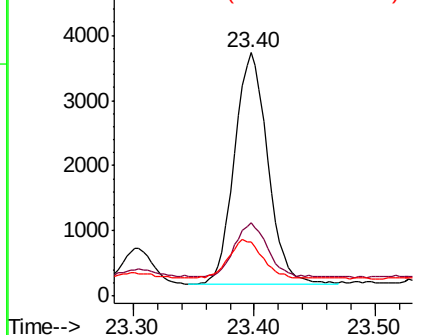


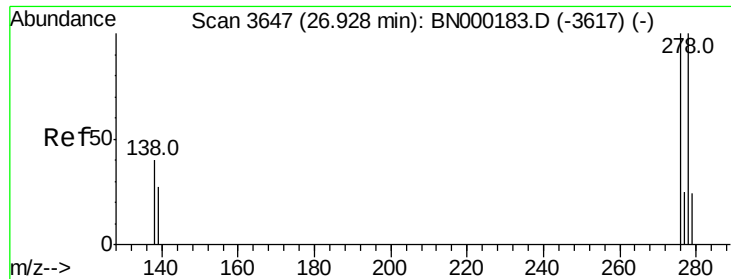
#37
Benzo(a)pyrene
Concen: 0.205 ng
RT: 23.40 min Scan# 2589
Delta R.T. -0.00 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Tgt Ion:252 Resp: 6803
Ion Ratio Lower Upper
252 100
253 30.0 16.0 24.0#
125 22.4 12.0 18.0#



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

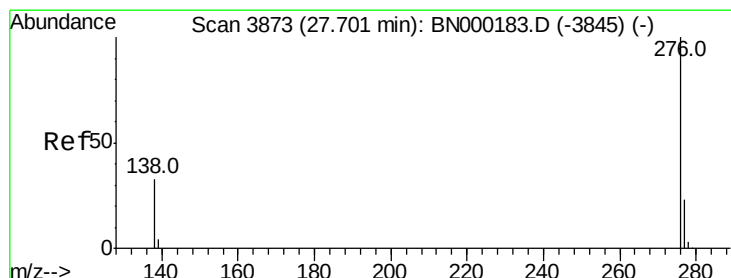
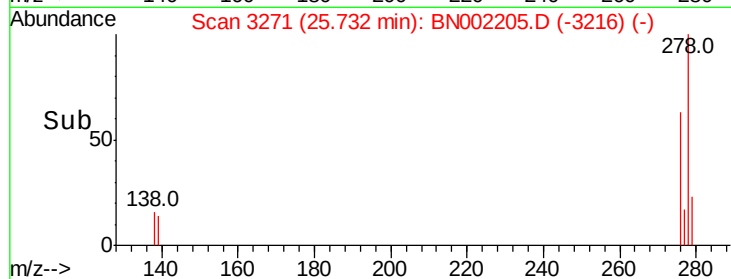
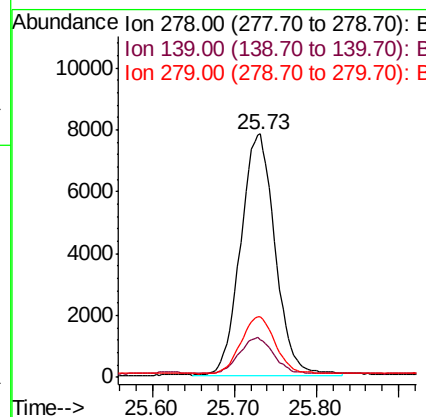
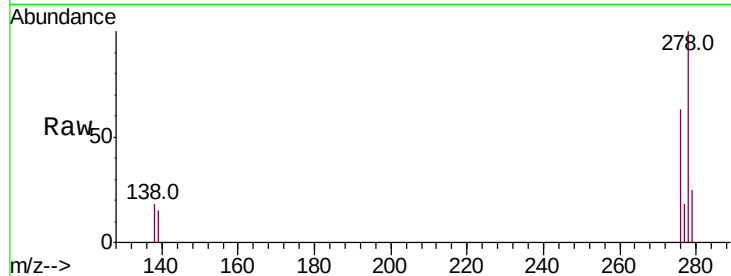




#38
Dibenzo(a,h)anthracene
Concen: 0.700 ng
RT: 25.73 min Scan# 3271
Delta R.T. -0.01 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 22615
Ion Ratio Lower Upper
278 100
139 15.4 16.0 24.0#
279 24.9 20.0 30.0



#39
Benzo(g,h,i)perylene
Concen: 0.700 ng
RT: 26.40 min Scan# 3465
Delta R.T. -0.01 min
Lab File: BN002205.D
Acq: 31 Jul 2018 11:34

Tgt Ion:276 Resp: 23103
Ion Ratio Lower Upper
276 100
277 24.2 16.0 24.0#
138 21.1 20.0 30.0

