

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN073118\
 Data File : BN002202.D
 Acq On : 31 Jul 2018 09:11
 Operator : JU/SJ
 Sample : J4086-30
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 1548

Quant Time: Jul 31 16:02:00 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	3291	0.40	ng	0.00
7) Naphthalene-d8	10.47	136	13237	0.40	ng	0.00
13) Acenaphthene-d10	14.32	164	7504	0.40	ng	0.00
19) Phenanthrene-d10	17.07	188	17139	0.40	ng	0.00
27) Chrysene-d12	21.27	240	17989	0.40	ng	0.00
34) Perylene-d12	23.50	264	13997	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.32	112	2817	0.37	ng	0.00
5) Phenol-d6	6.88	99	2880	0.31	ng	0.00
8) Nitrobenzene-d5	8.86	82	3551	0.36	ng	0.01
11) 2-Methylnaphthalene-d10	12.07	152	6962	0.36	ng	0.00
14) 2,4,6-Tribromophenol	15.84	330	731	0.23	ng	0.01
15) 2-Fluorobiphenyl	12.94	172	11716	0.41	ng	0.00
25) Fluoranthene-d10	19.10	212	16320	0.39	ng	0.00
29) Terphenyl-d14	19.71	244	11729	0.31	ng	0.00

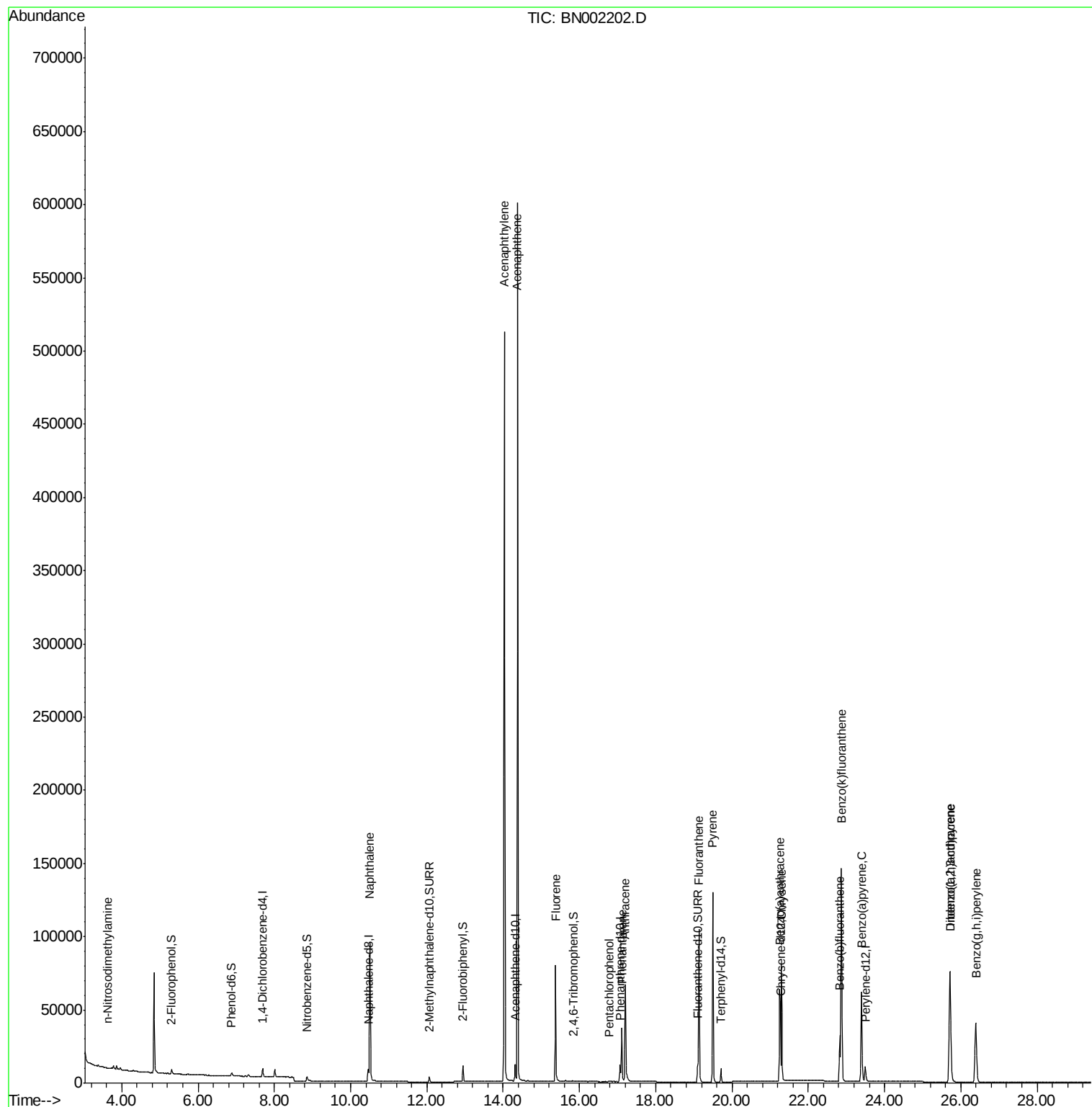
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.64	42	39	0.127	ng	# 71
9) Naphthalene	10.50	128	137355	4.603	ng	97
16) Acenaphthylene	14.03	152	532272	16.603	ng	100
17) Acenaphthene	14.38	154	298411	14.471	ng	99
18) Fluorene	15.37	166	54832	2.162	ng	# 80
22) Pentachlorophenol	16.78	266	39	0.108	ng	# 63
23) Phenanthrene	17.11	178	41644	0.977	ng	99
24) Anthracene	17.20	178	89049	2.525	ng	96
26) Fluoranthene	19.13	202	103020	2.219	ng	# 97
28) Pvrene	19.50	202	128141	2.408	ng	99
30) Benzo(a)anthracene	21.25	228	55723	1.231	ng	96
31) Chrysene	21.30	228	67598	1.335	ng	99
33) Indeno(1,2,3-cd)pyrene	25.71	276	125240	2.625	ng	# 90
35) Benzo(b)fluoranthene	22.83	252	38963	0.946	ng	# 88
36) Benzo(k)fluoranthene	22.87	252	191189	4.475	ng	96
37) Benzo(a)pyrene	23.40	252	92171	2.472	ng	# 93
38) Dibenzo(a,h)anthracene	25.73	278	43015	1.185	ng	# 94
39) Benzo(a,h,i)perylene	26.40	276	87504	2.360	ng	# 90

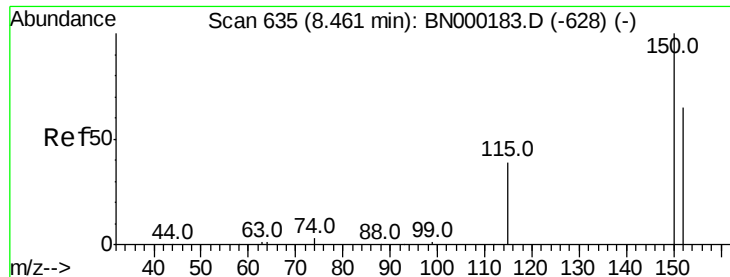
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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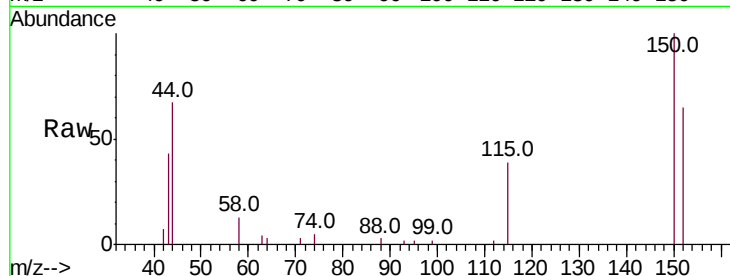


#1

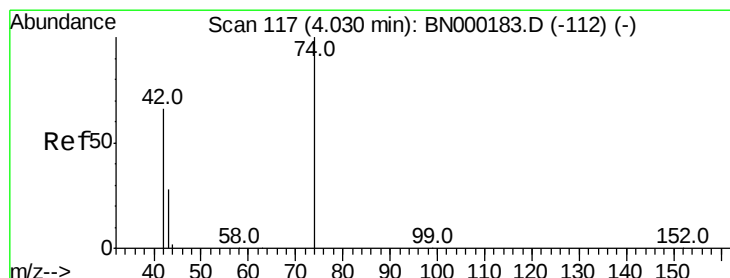
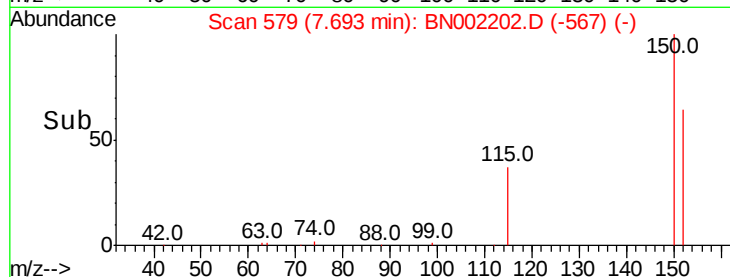
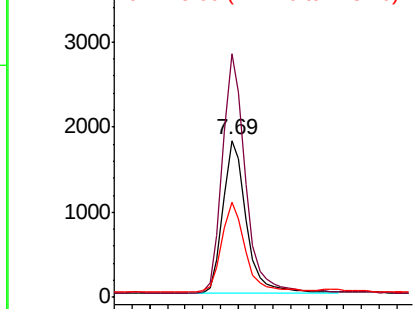
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 579
Delta R.T. -0.00 min
Lab File: BN002202.D
Acq: 31 Jul 2018 09:11

Instrument :
BNA_N
ClientSampleId :
1548

Tot Ion:152 Resp: 3291
Ion Ratio Lower Upper
152 100
150 155.0 117.2 175.8
115 60.7 57.0 85.6



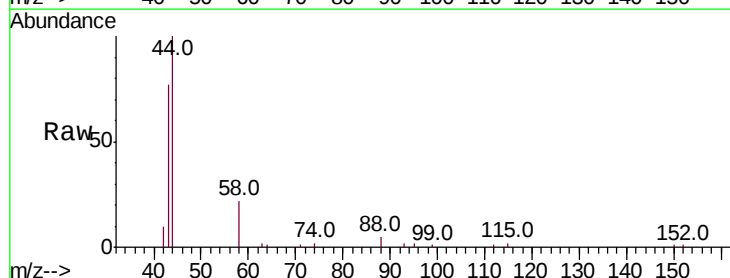
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



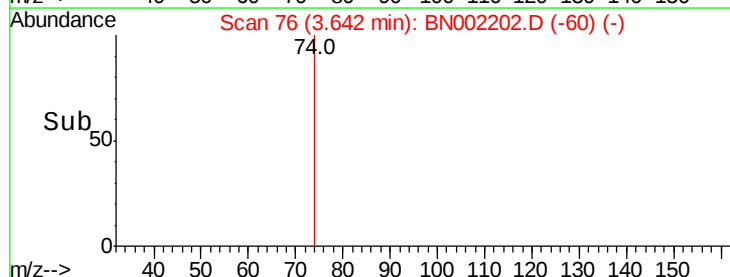
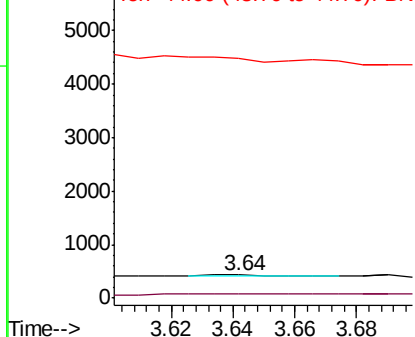
#3

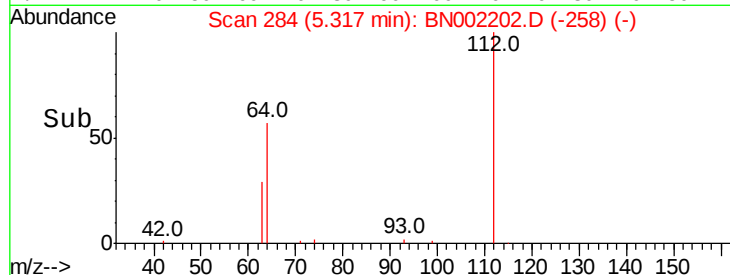
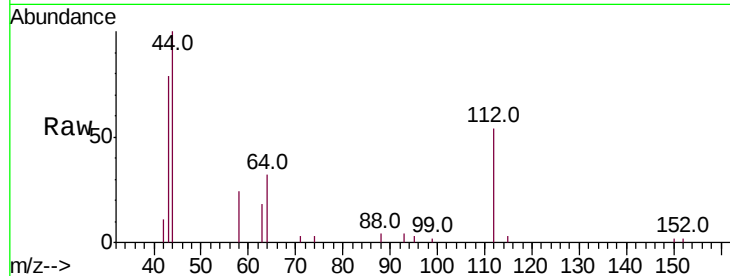
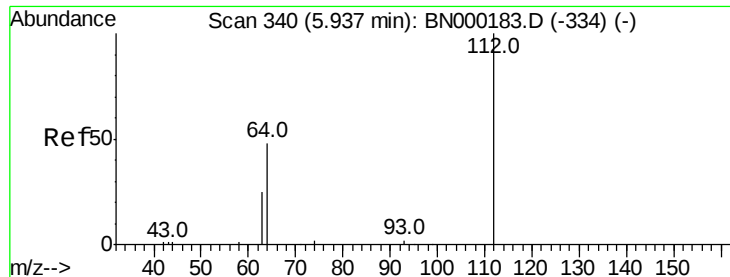
n-Nitrosodimethylamine
Concen: 0.127 ng
RT: 3.64 min Scan# 76
Delta R.T. 0.03 min
Lab File: BN002202.D
Acq: 31 Jul 2018 09:11

Tgt Ion: 42 Resp: 39
Ion Ratio Lower Upper
42 100
74 82.1 88.0 132.0#
44 0.0 16.0 24.0#



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





#4

2-Fluorophenol

Concen: 0.367 ng

RT: 5.32 min Scan# 284

Delta R.T. 0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

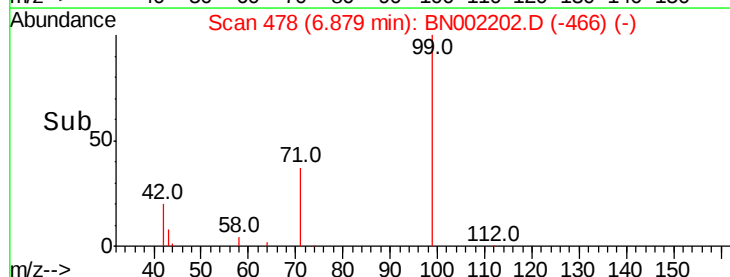
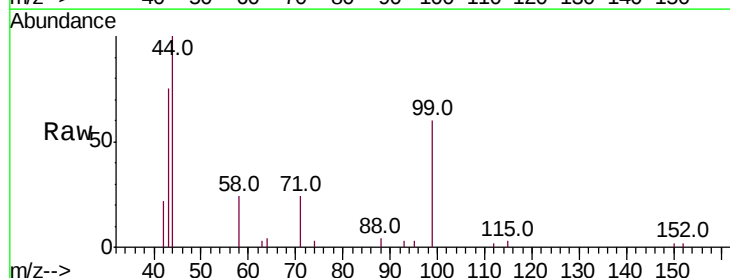
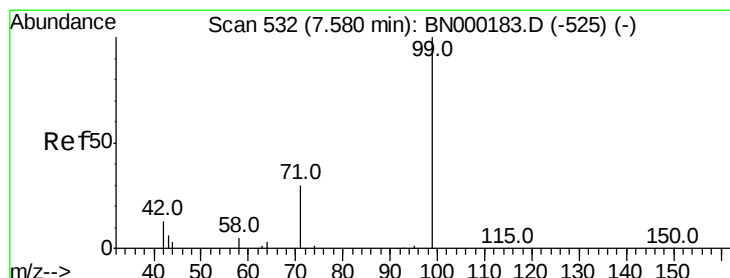
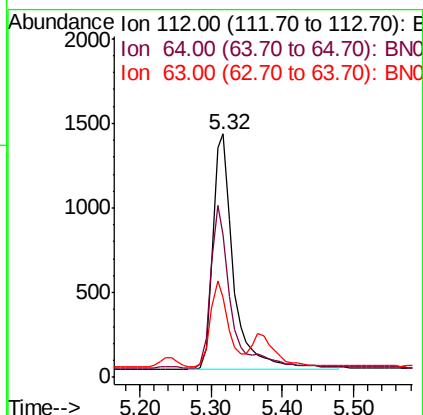
Tot Ion:112 Resp: 2817

Ion Ratio Lower Upper

112 100

64 67.3 60.1 90.1

63 31.6 116.8 175.2#



#5

Phenol-d6

Concen: 0.308 ng

RT: 6.88 min Scan# 478

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

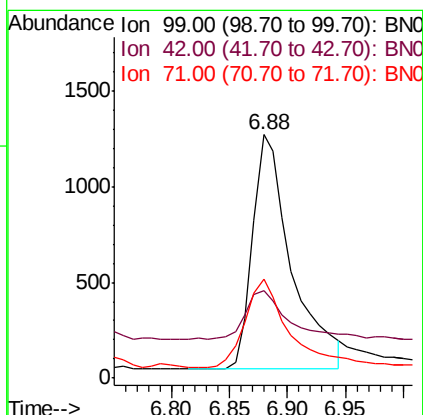
Tgt Ion: 99 Resp: 2880

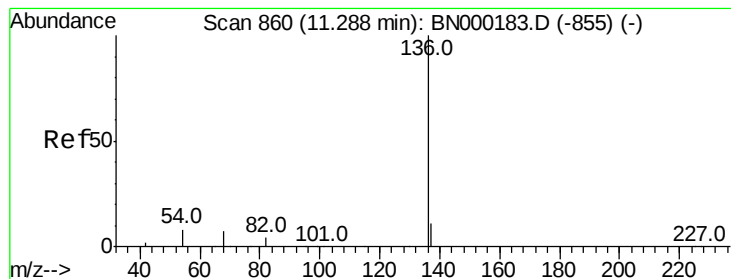
Ion Ratio Lower Upper

99 100

42 22.1 20.2 30.2

71 41.0 28.4 42.6





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

Tot Ion:136 Resp: 13237

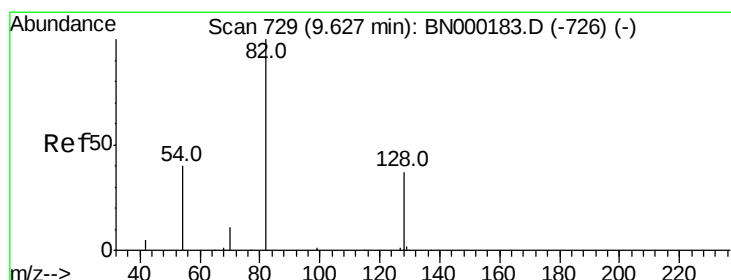
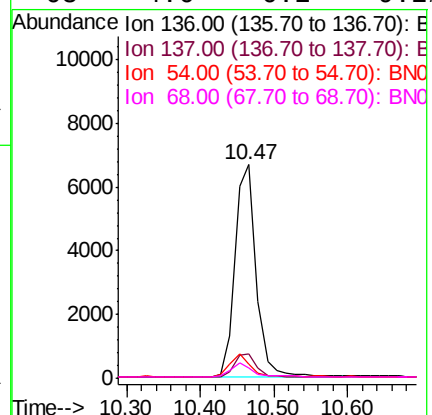
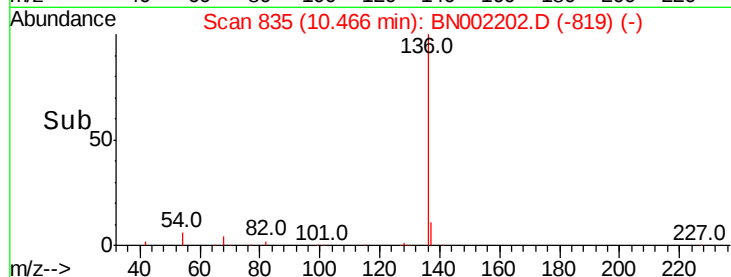
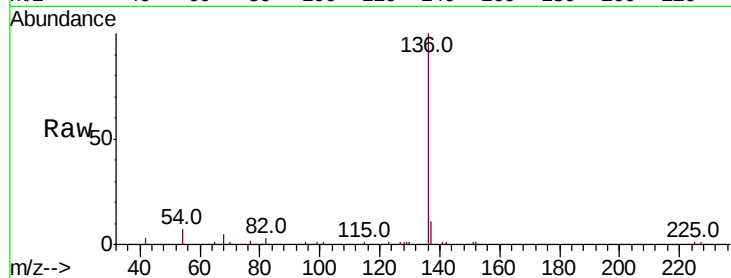
Ion Ratio Lower Upper

136 100

137 11.4 9.5 14.3

54 6.6 29.1 43.7#

68 4.6 6.2 9.2#



#8

Nitrobenzene-d5

Concen: 0.357 ng

RT: 8.86 min Scan# 708

Delta R.T. 0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

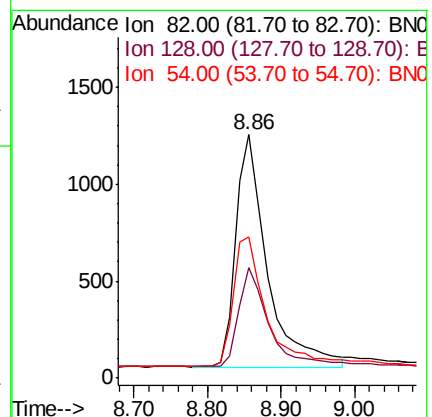
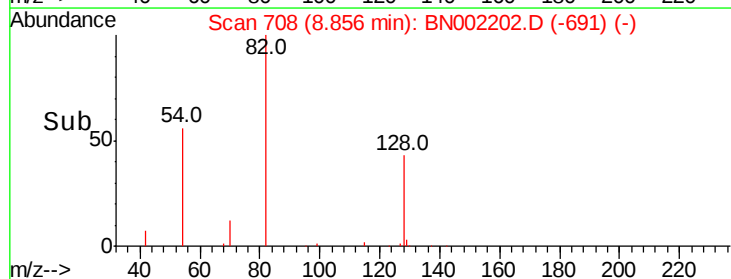
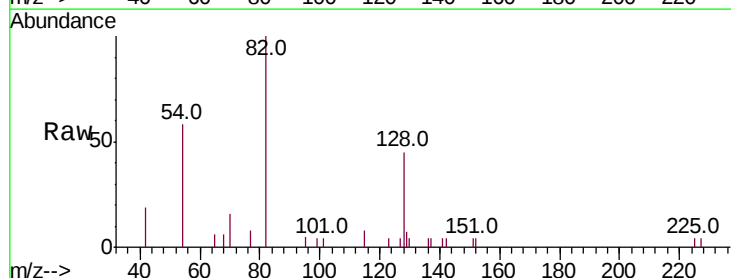
Tgt Ion: 82 Resp: 3551

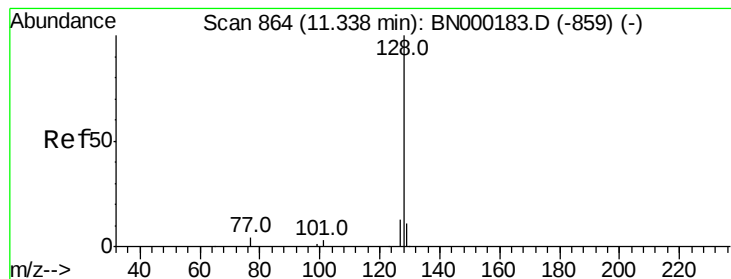
Ion Ratio Lower Upper

82 100

128 45.5 150.0 225.0#

54 57.9 154.2 231.4#





#9

Naphthalene

Concen: 4.603 ng

RT: 10.50 min Scan# 838

Delta R.T. -0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

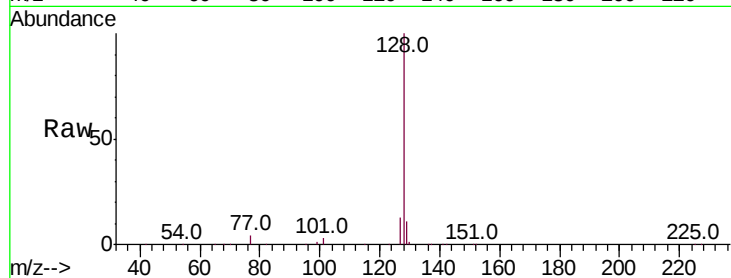
Tot Ion:128 Resp: 137355

Ion Ratio Lower Upper

128 100

129 10.9 8.0 12.0

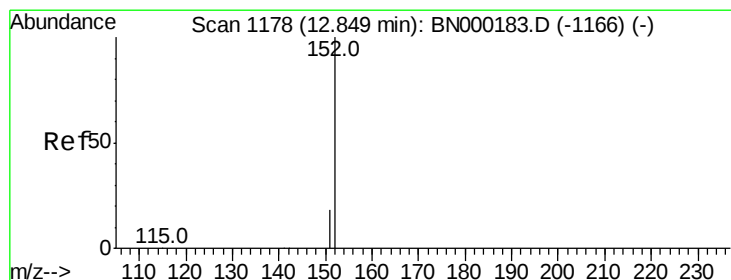
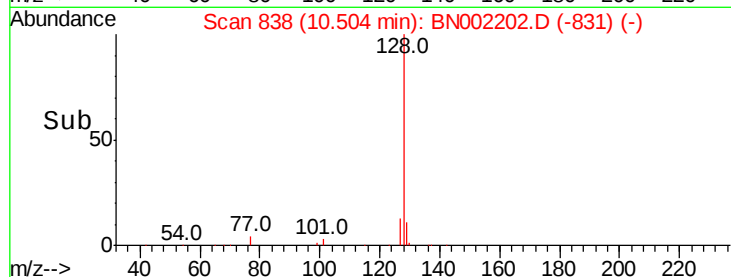
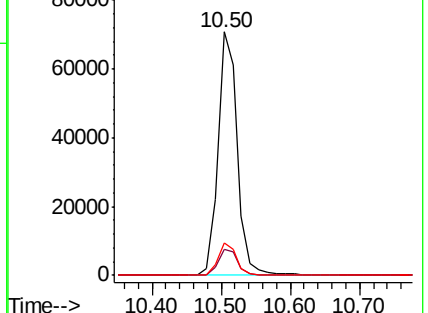
127 13.2 9.6 14.4



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: 0.357 ng

RT: 12.07 min Scan# 1043

Delta R.T. 0.01 min

Lab File: BN002202.D

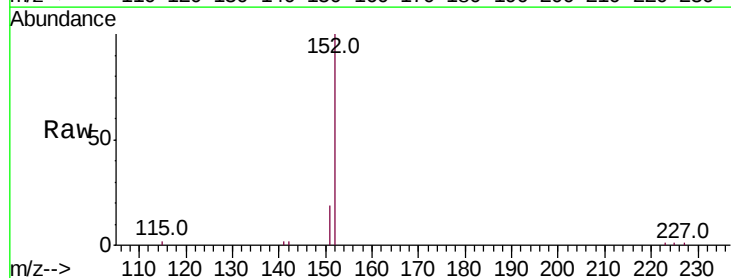
Acq: 31 Jul 2018 09:11

Tgt Ion:152 Resp: 6962

Ion Ratio Lower Upper

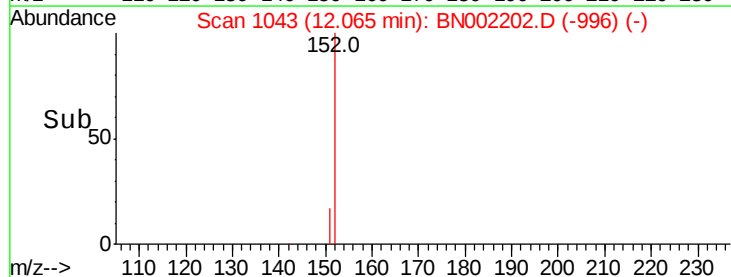
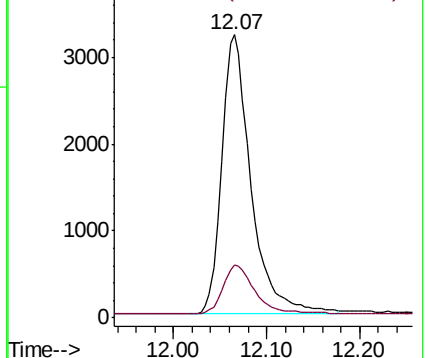
152 100

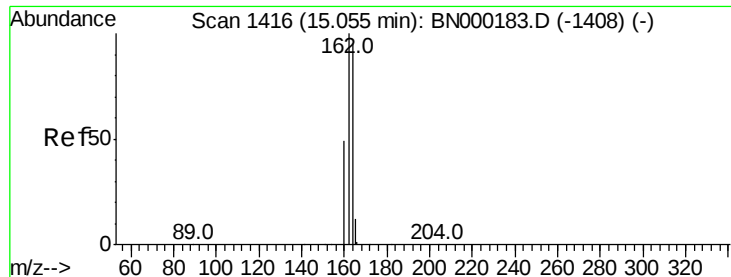
151 19.1 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.32 min Scan# 1332

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

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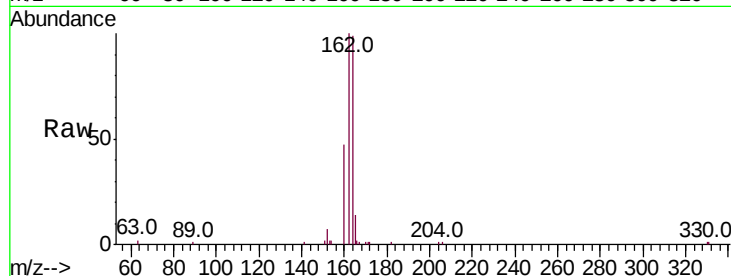
Tot Ion:164 Resp: 7504

Ion Ratio Lower Upper

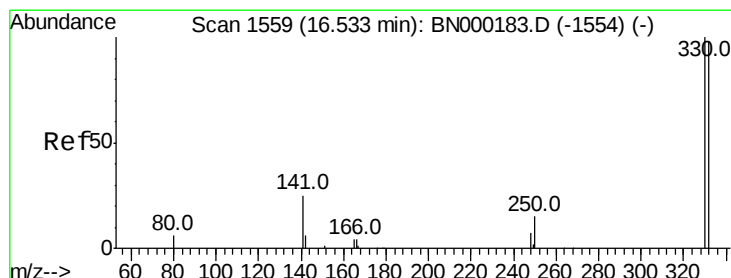
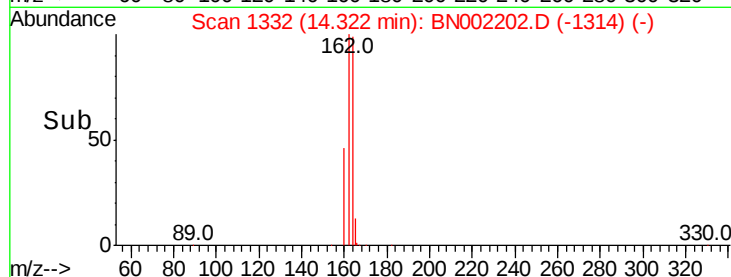
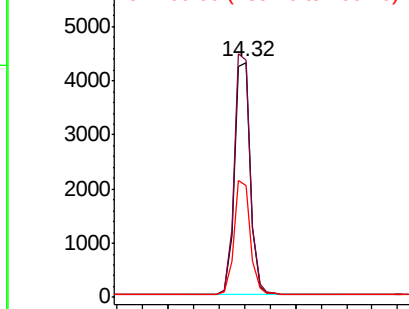
164 100

162 101.3 83.1 124.7

160 47.5 37.1 55.7



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: 0.228 ng

RT: 15.84 min Scan# 1468

Delta R.T. 0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

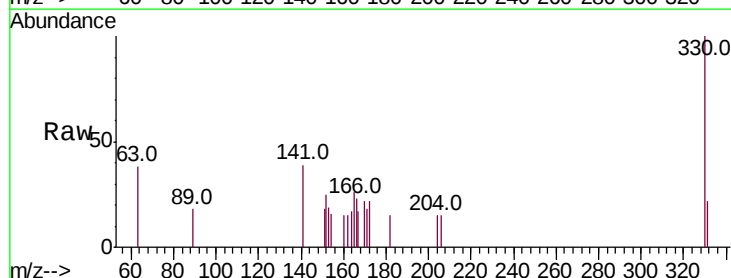
Tgt Ion:330 Resp: 731

Ion Ratio Lower Upper

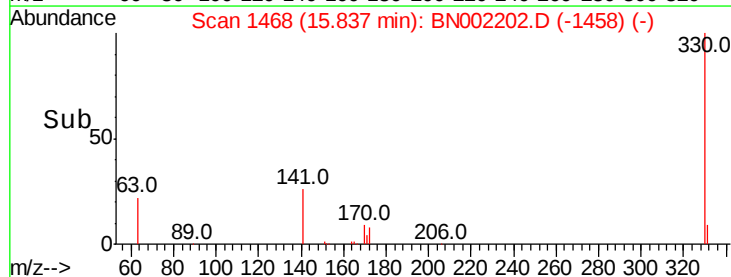
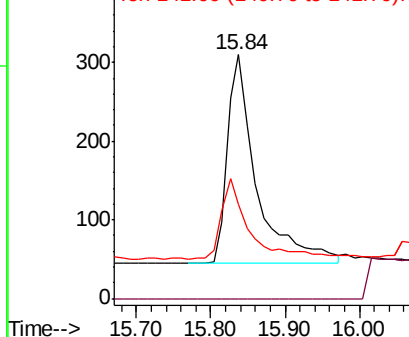
330 100

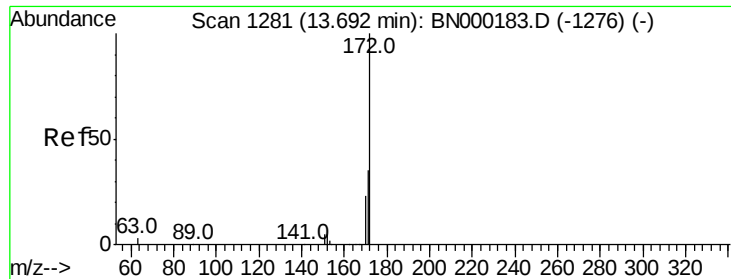
332 0.0 152.7 229.1#

141 36.9 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

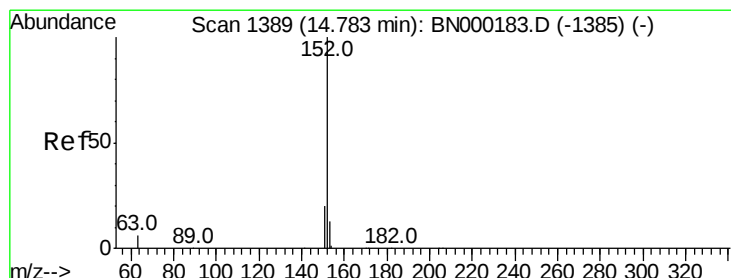
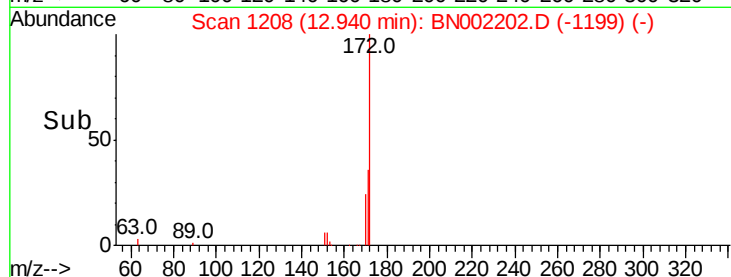
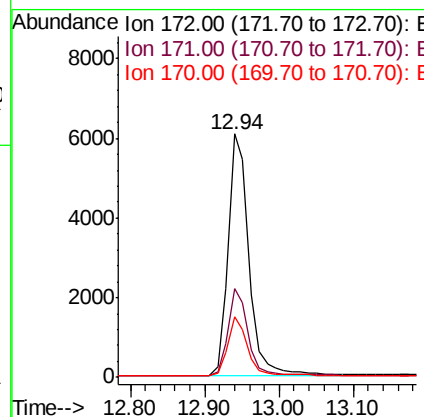
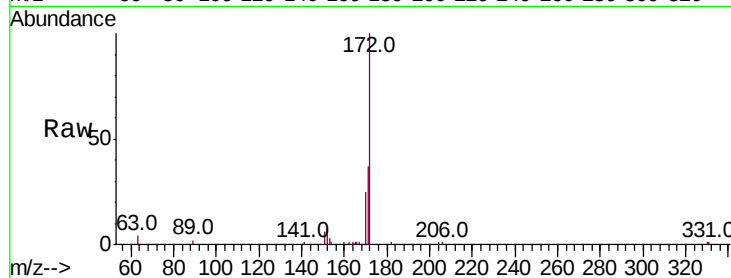




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.94 min Scan# 1208
Delta R.T. -0.00 min
Lab File: BN002202.D
Acq: 31 Jul 2018 09:11

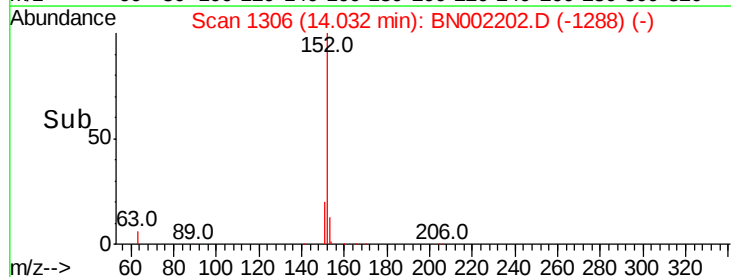
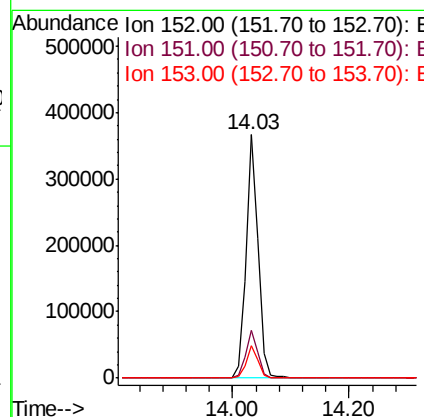
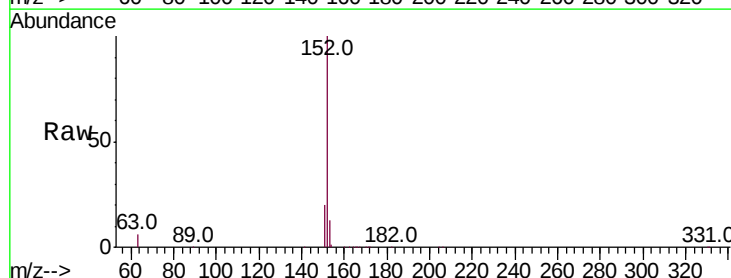
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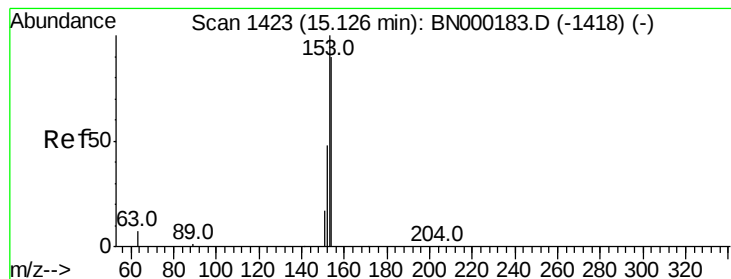
Tot Ion:172 Resp: 11716
Ion Ratio Lower Upper
172 100
171 36.6 29.9 44.9
170 24.8 21.8 32.8



#16
Acenaphthylene
Concen: 16.603 ng
RT: 14.03 min Scan# 1306
Delta R.T. -0.00 min
Lab File: BN002202.D
Acq: 31 Jul 2018 09:11

Tgt Ion:152 Resp: 532272
Ion Ratio Lower Upper
152 100
151 19.6 15.7 23.5
153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 14.471 ng

RT: 14.38 min Scan# 1337

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

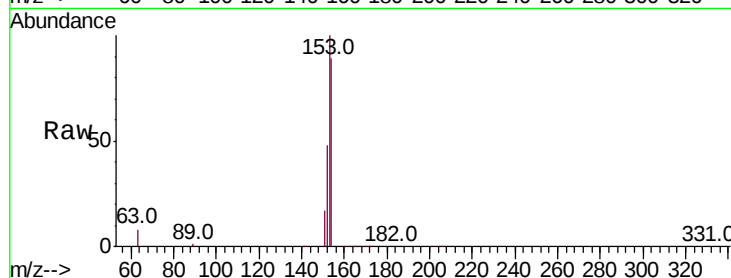
Tot Ion:154 Resp: 298411

Ion Ratio Lower Upper

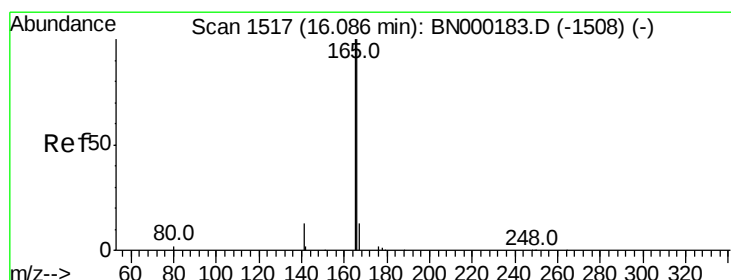
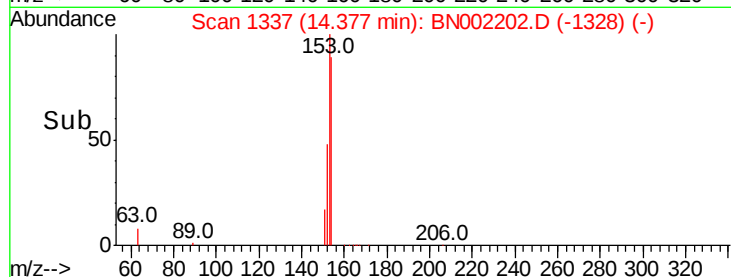
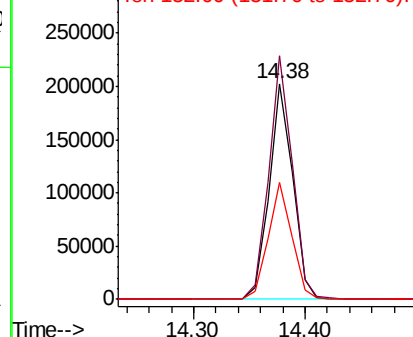
154 100

153 112.6 89.2 133.8

152 54.2 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: 2.162 ng

RT: 15.37 min Scan# 1426

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

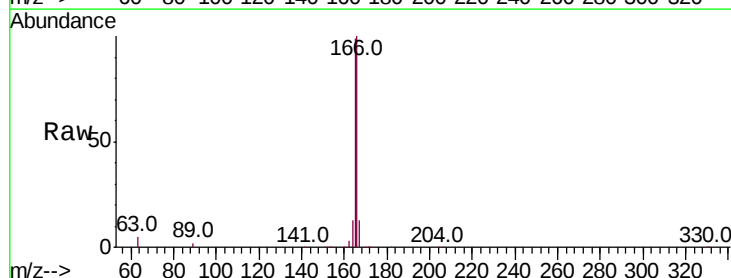
Tgt Ion:166 Resp: 54832

Ion Ratio Lower Upper

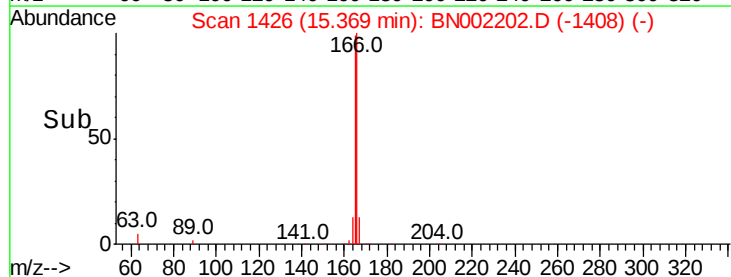
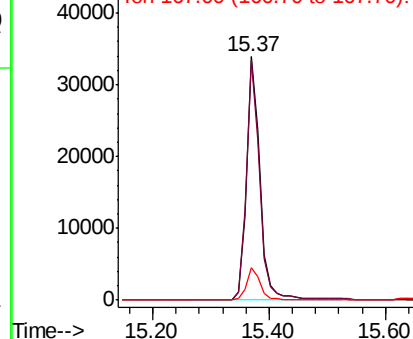
166 100

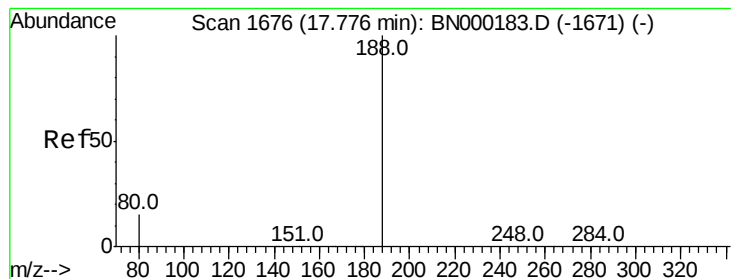
165 97.8 77.8 116.6

167 13.3 42.4 63.6#



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: 17.07 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

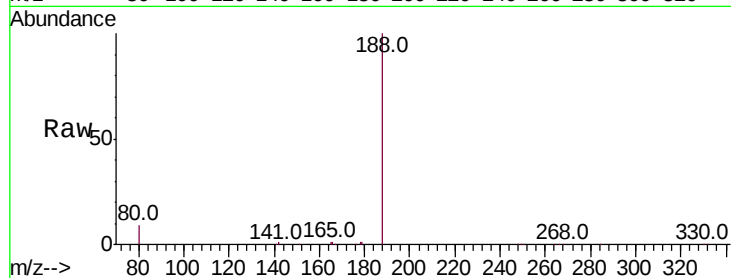
Tot Ion:188 Resp: 17139

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

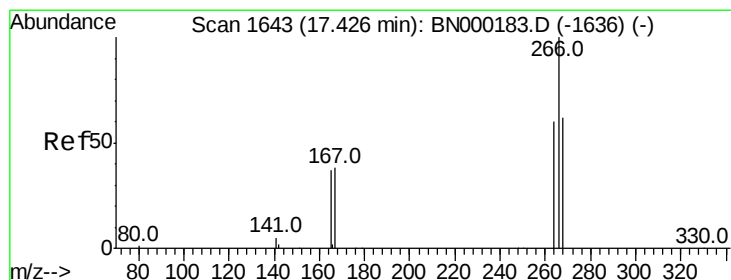
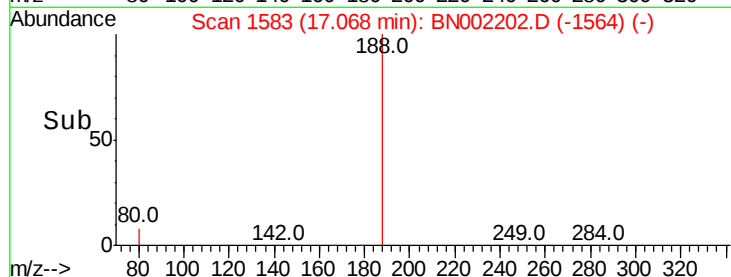
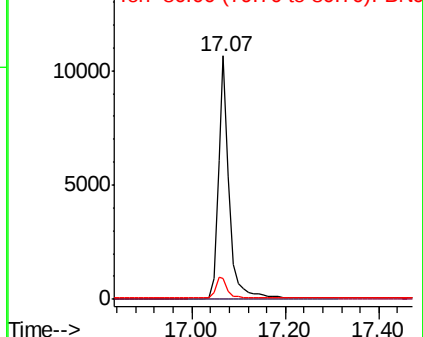
80 8.5 3.6 5.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#22

Pentachlorophenol

Concen: 0.108 ng

RT: 16.78 min Scan# 1556

Delta R.T. 0.04 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

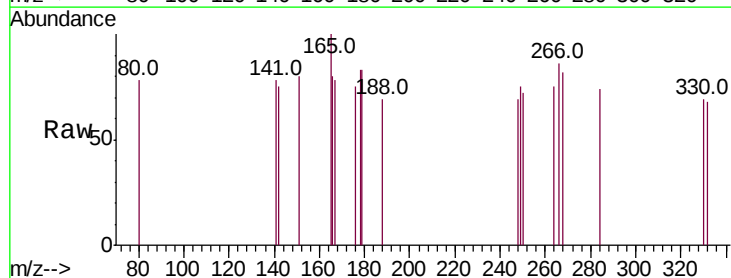
Tgt Ion:266 Resp: 39

Ion Ratio Lower Upper

266 100

264 87.5 48.0 72.0#

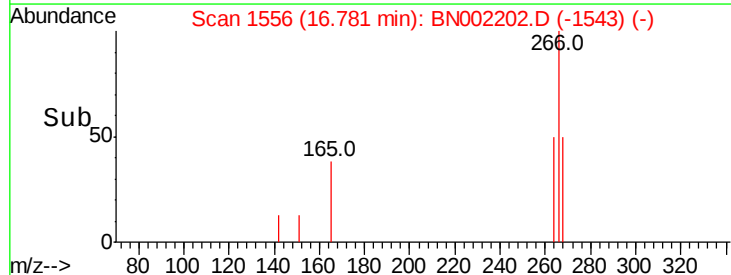
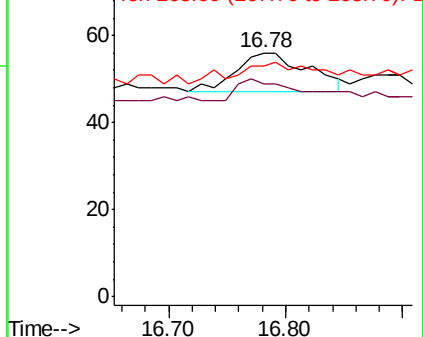
268 94.6 52.0 78.0#

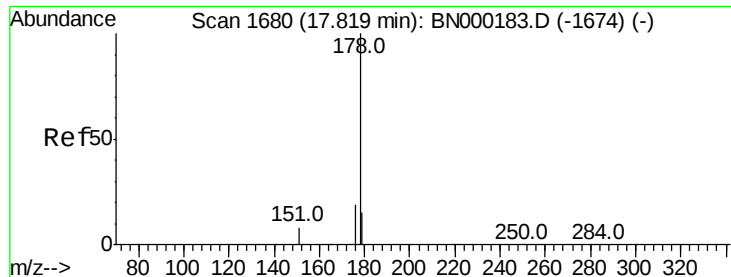


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.977 ng

RT: 17.11 min Scan# 1587

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :
1548

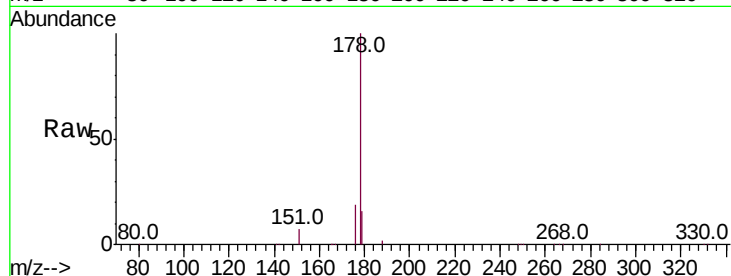
Tot Ion:178 Resp: 41644

Ion Ratio Lower Upper

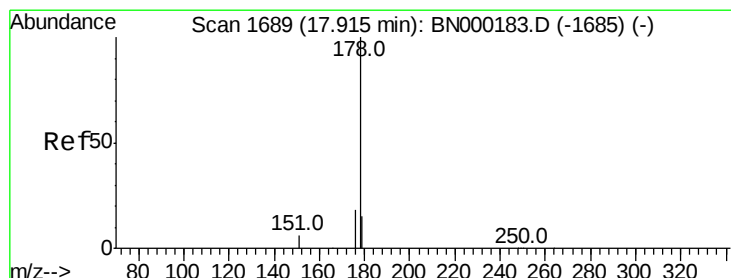
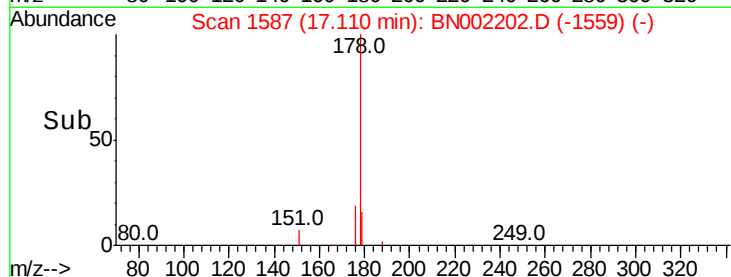
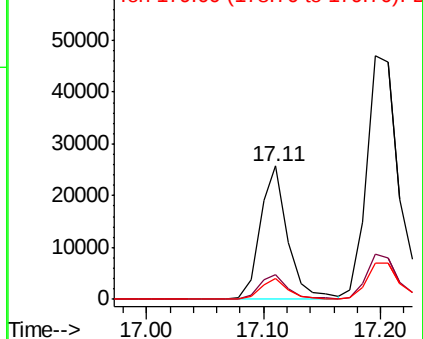
178 100

176 18.9 15.1 22.7

179 15.3 11.8 17.6



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: 2.525 ng

RT: 17.20 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

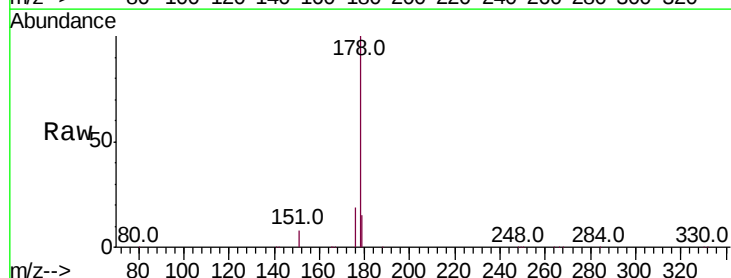
Tgt Ion:178 Resp: 89049

Ion Ratio Lower Upper

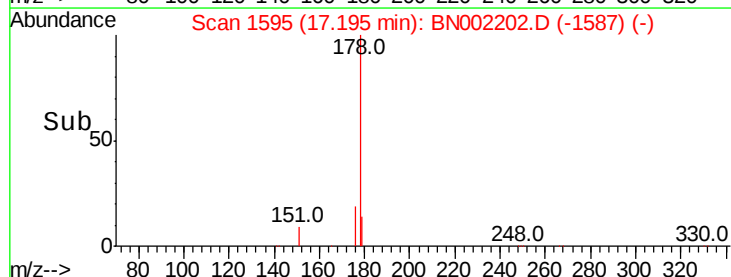
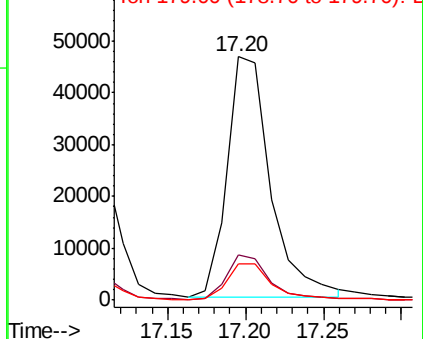
178 100

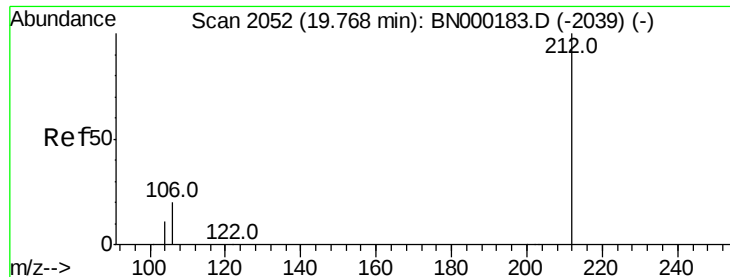
176 18.1 12.8 19.2

179 15.2 13.0 19.6



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: 0.385 ng

RT: 19.10 min Scan# 1891

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampled :

1548

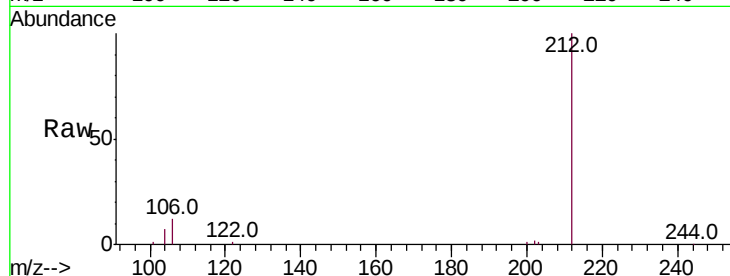
Tot Ion:212 Resp: 16320

Ion Ratio Lower Upper

212 100

106 11.7 2.8 4.2#

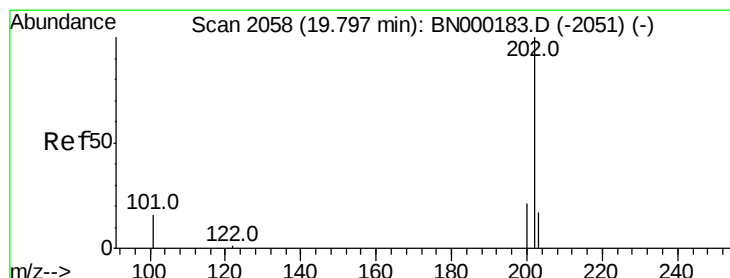
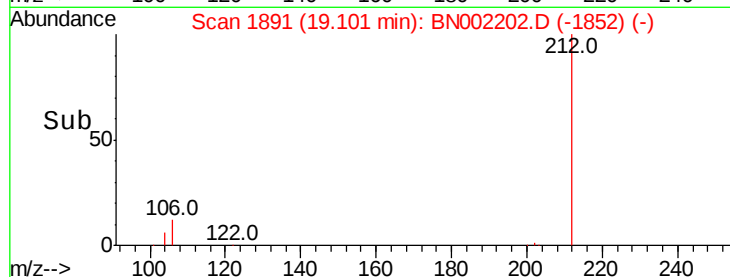
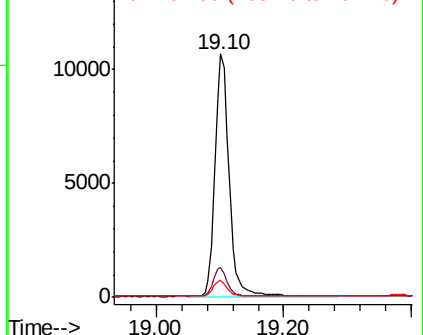
104 6.5 1.6 2.4#



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: 2.219 ng

RT: 19.13 min Scan# 1897

Delta R.T. -0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

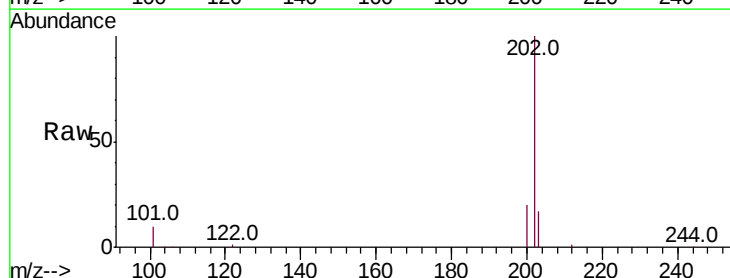
Tgt Ion:202 Resp: 103020

Ion Ratio Lower Upper

202 100

101 9.7 9.8 14.8#

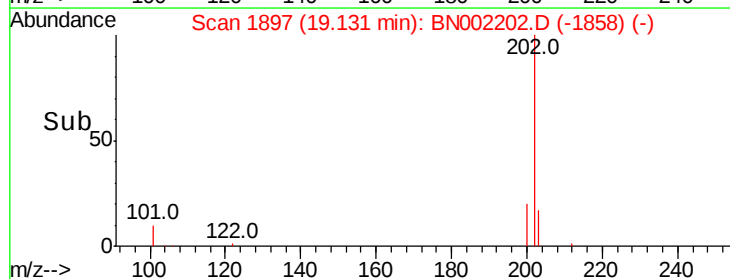
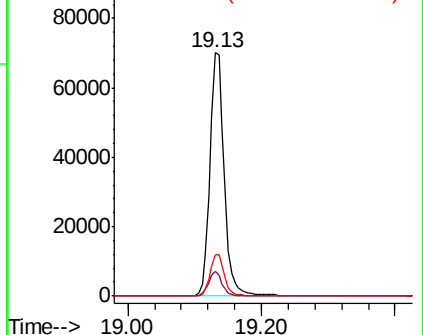
203 17.2 13.7 20.5

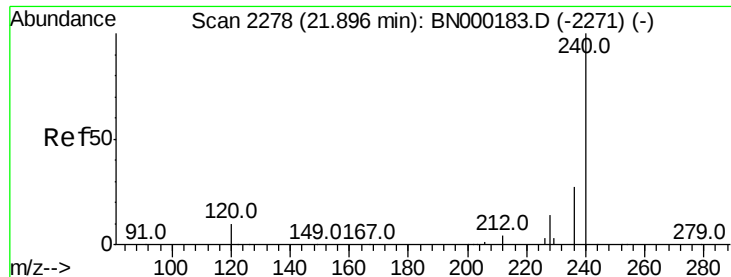


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.27 min Scan# 2192

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

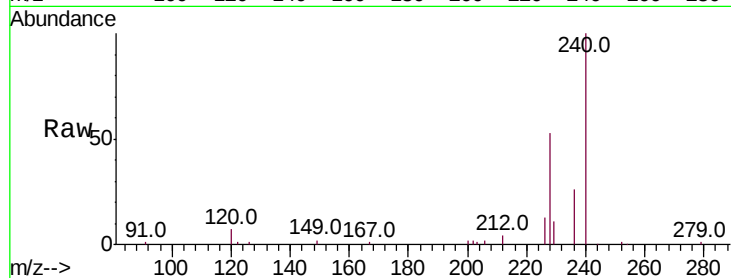
Tot Ion:240 Resp: 17989

Ion Ratio Lower Upper

240 100

120 6.7 5.5 8.3

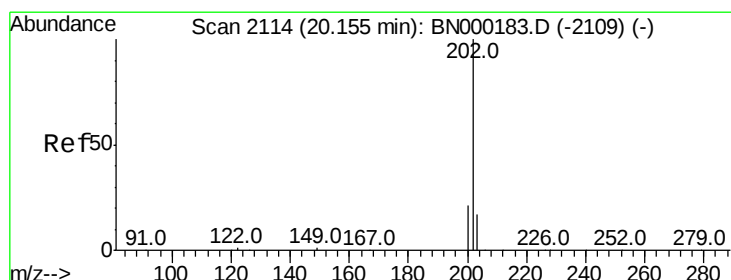
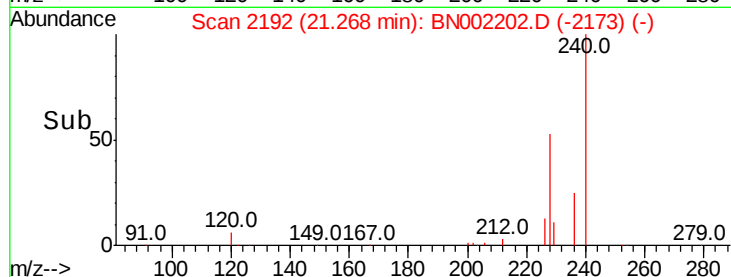
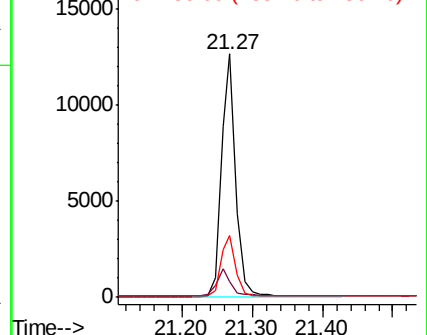
236 25.5 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 2.408 ng

RT: 19.50 min Scan# 1971

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

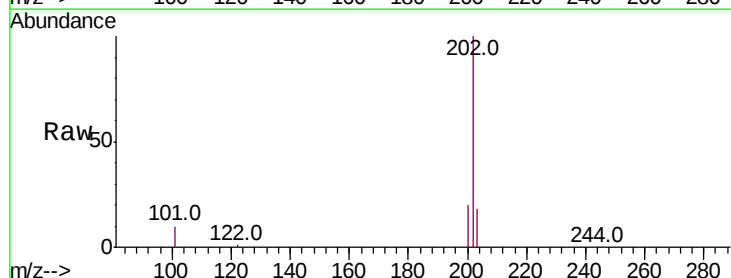
Tgt Ion:202 Resp: 128141

Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

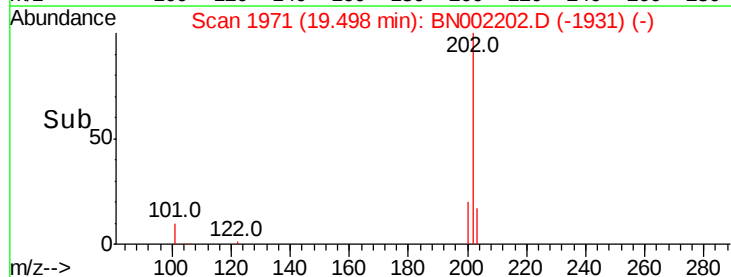
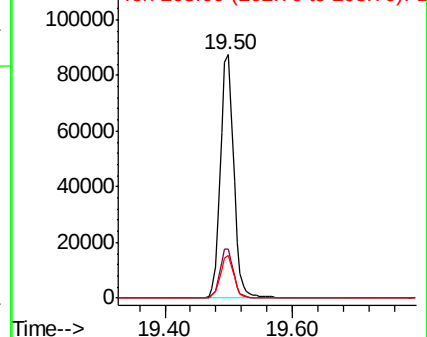
203 17.7 13.8 20.8

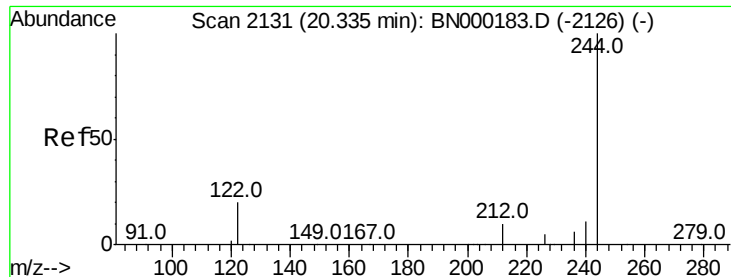


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.305 ng

RT: 19.71 min Scan# 2014

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

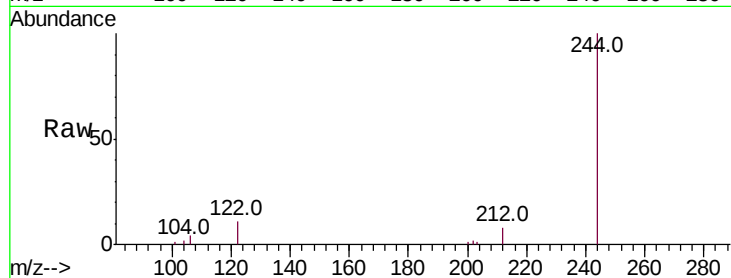
Tot Ion:244 Resp: 11729

Ion Ratio Lower Upper

244 100

212 8.0 25.4 38.0#

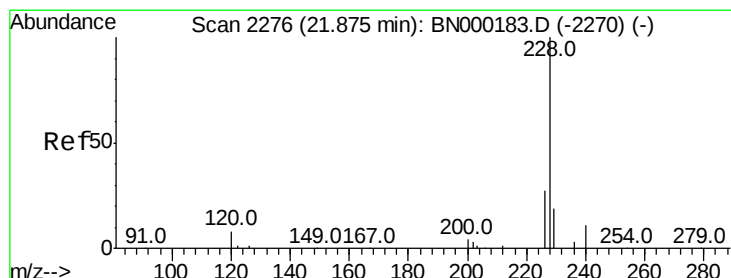
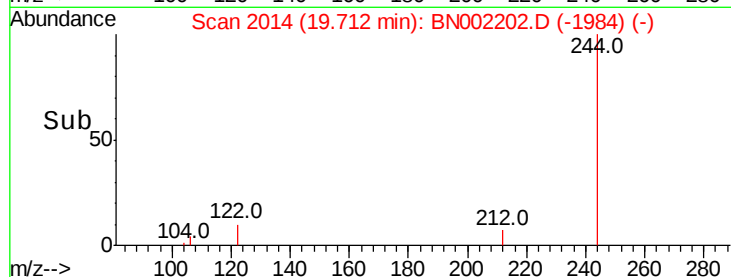
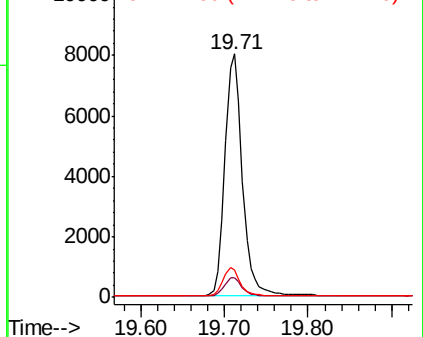
122 11.0 8.1 12.1



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: 1.231 ng

RT: 21.25 min Scan# 2190

Delta R.T. -0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

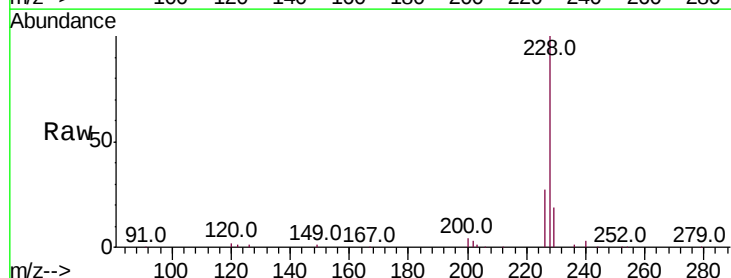
Tgt Ion:228 Resp: 55723

Ion Ratio Lower Upper

228 100

226 27.1 24.0 36.0

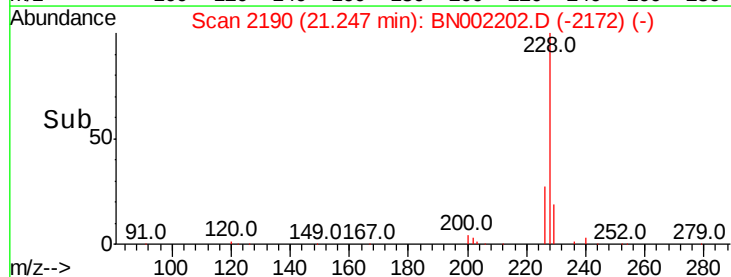
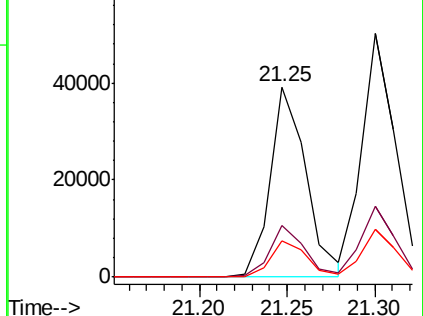
229 19.2 16.0 24.0

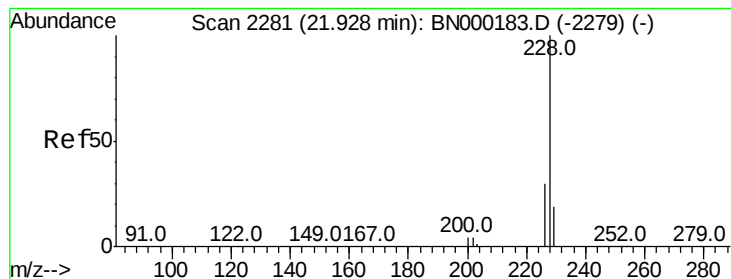


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 1.335 ng

RT: 21.30 min Scan# 2195

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

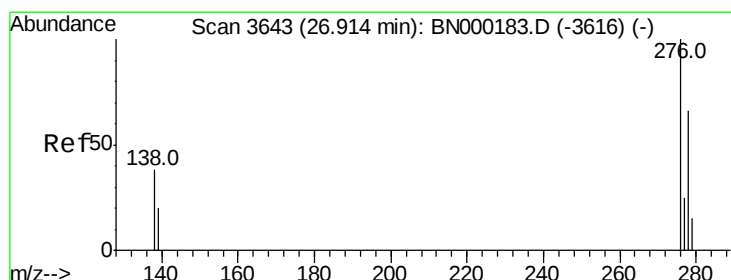
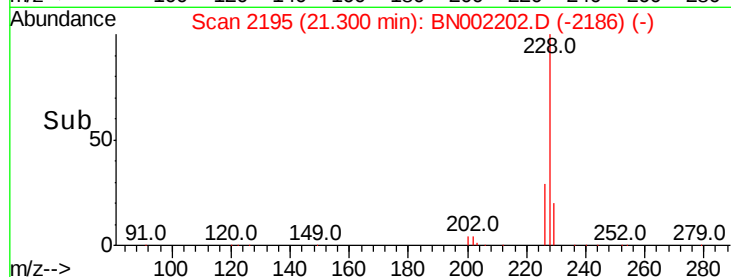
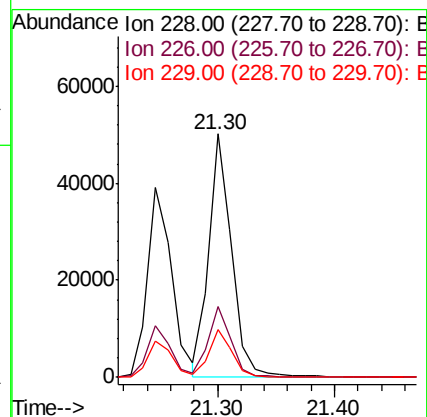
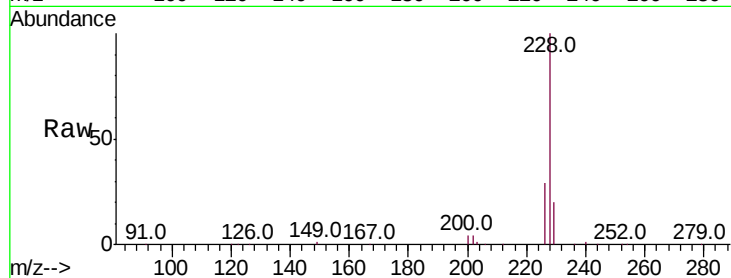
Tot Ion:228 Resp: 67598

Ion Ratio Lower Upper

228 100

226 29.2 24.0 36.0

229 19.6 16.0 24.0



#33

Indeno(1,2,3-cd)pyrene

Concen: 2.625 ng

RT: 25.71 min Scan# 3265

Delta R.T. -0.02 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

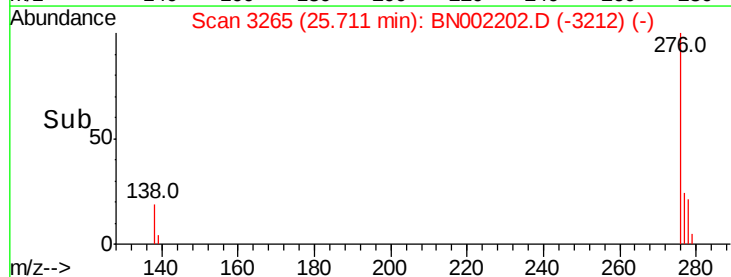
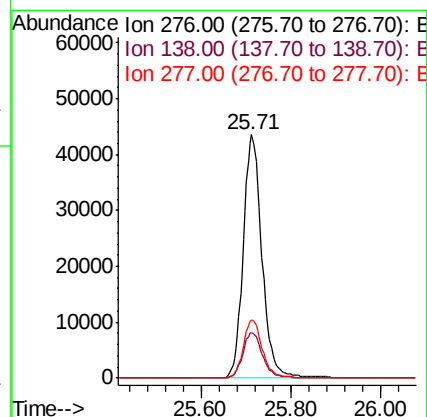
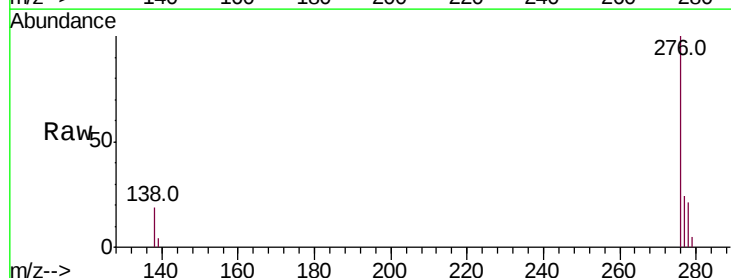
Tgt Ion:276 Resp: 125240

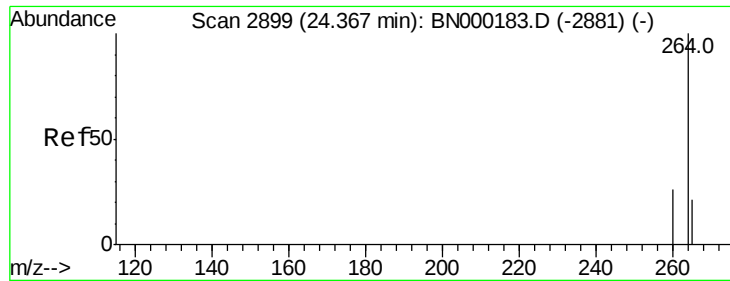
Ion Ratio Lower Upper

276 100

138 19.3 22.5 33.7#

277 24.0 19.9 29.9

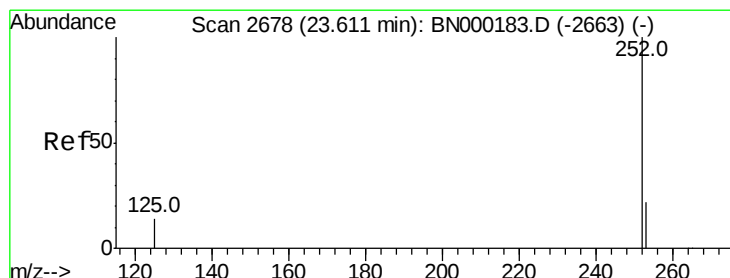
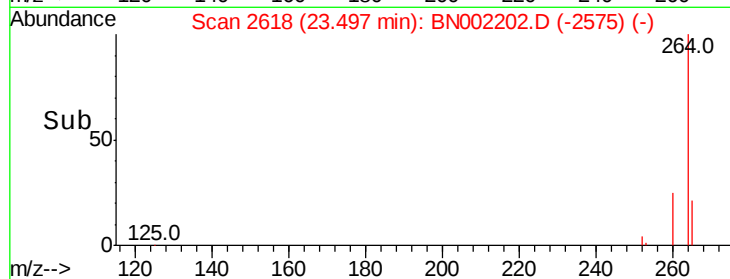
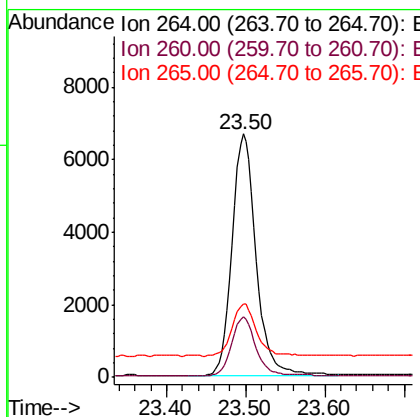
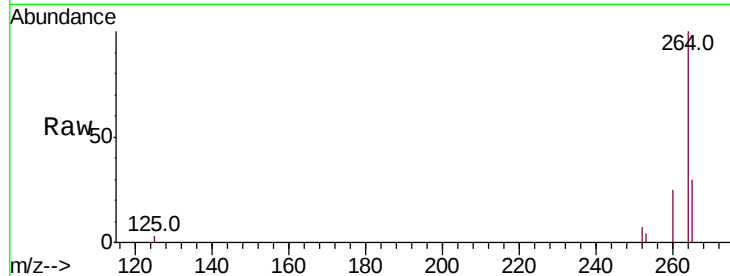




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.50 min Scan# 2618
Delta R.T. -0.00 min
Lab File: BN002202.D
Acq: 31 Jul 2018 09:11

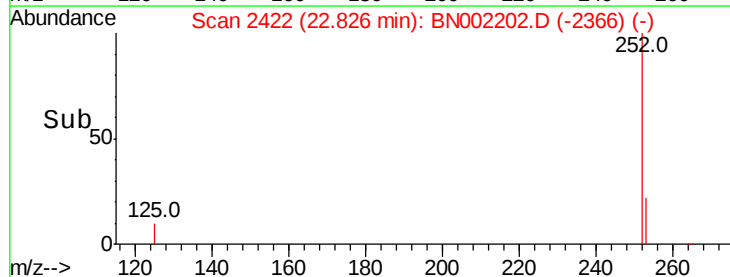
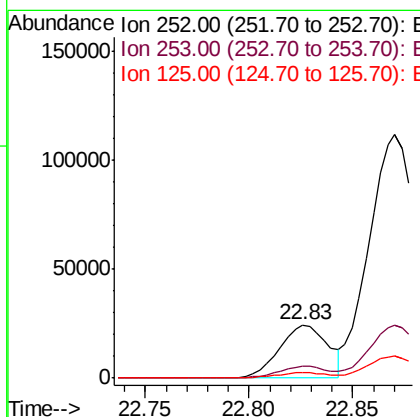
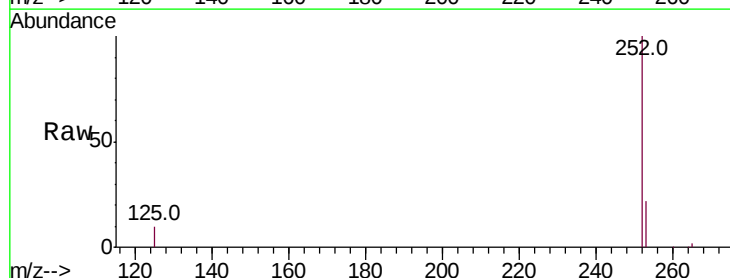
Instrument :
BNA_N
ClientSampleId :
1548

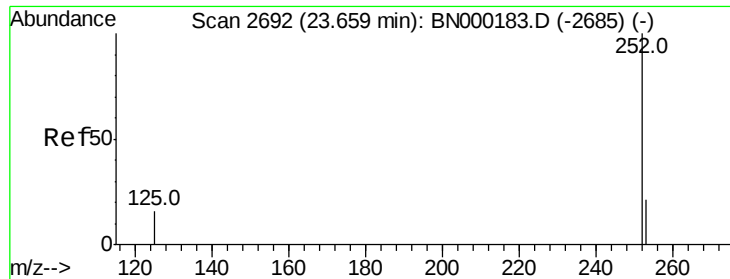
Tot Ion:264 Resp: 13997
Ion Ratio Lower Upper
264 100
260 25.1 20.5 30.7
265 30.0 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.946 ng
RT: 22.83 min Scan# 2422
Delta R.T. -0.01 min
Lab File: BN002202.D
Acq: 31 Jul 2018 09:11

Tgt Ion:252 Resp: 38963
Ion Ratio Lower Upper
252 100
253 22.5 20.0 30.0
125 10.1 16.0 24.0#





#36

Benzo(k)fluoranthene

Concen: 4.475 ng

RT: 22.87 min Scan# 2435

Delta R.T. -0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

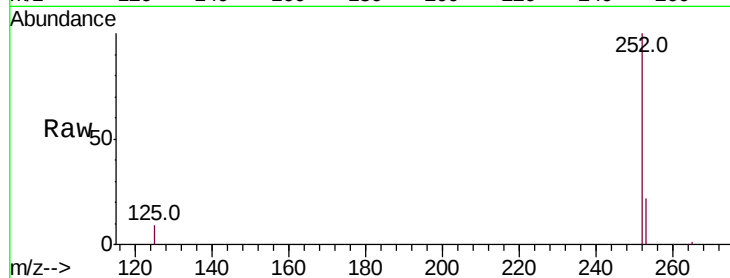
Tot Ion:252 Resp: 191189

Ion Ratio Lower Upper

252 100

253 21.9 16.0 24.0

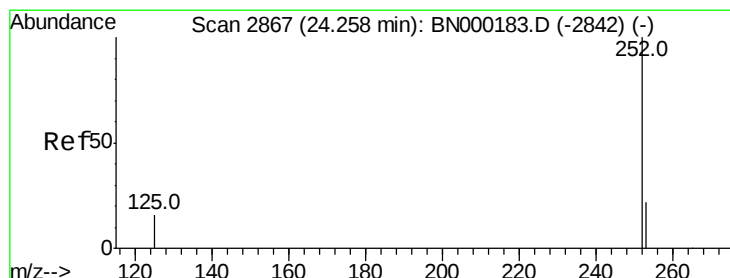
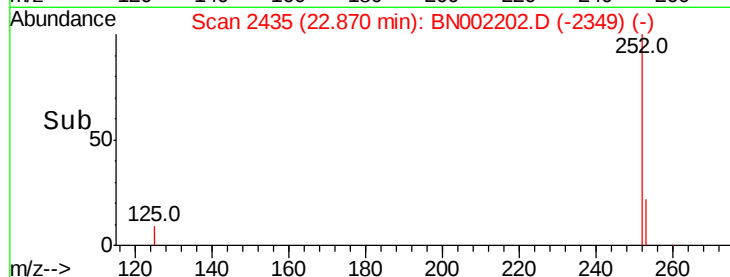
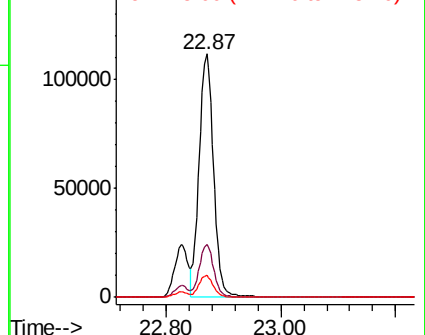
125 8.9 8.0 12.0



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: 2.472 ng

RT: 23.40 min Scan# 2589

Delta R.T. -0.00 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

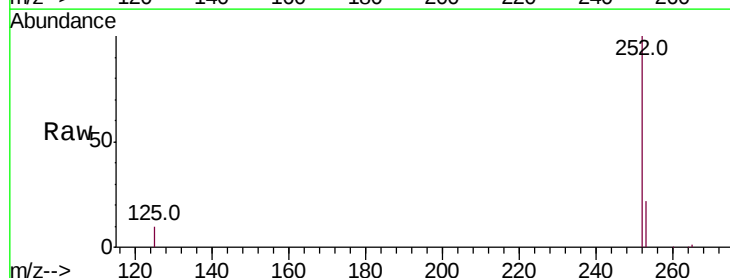
Tgt Ion:252 Resp: 92171

Ion Ratio Lower Upper

252 100

253 22.1 16.0 24.0

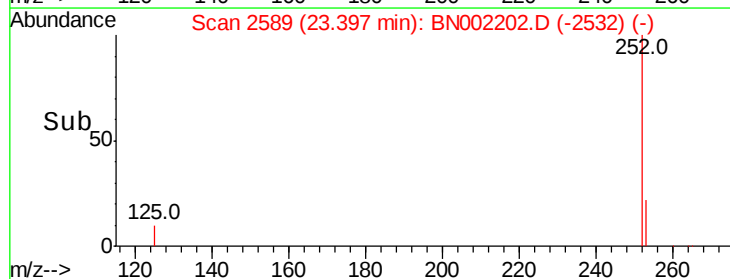
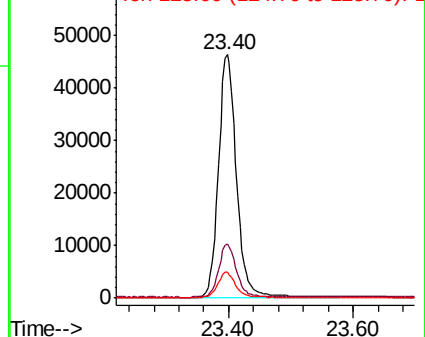
125 10.5 12.0 18.0#

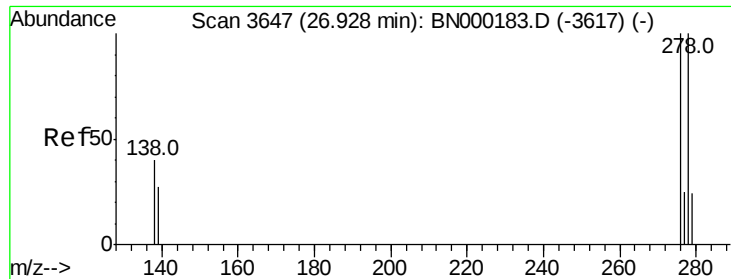


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 1.185 ng

RT: 25.73 min Scan# 3270

Delta R.T. -0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

Instrument :

BNA_N

ClientSampleId :

1548

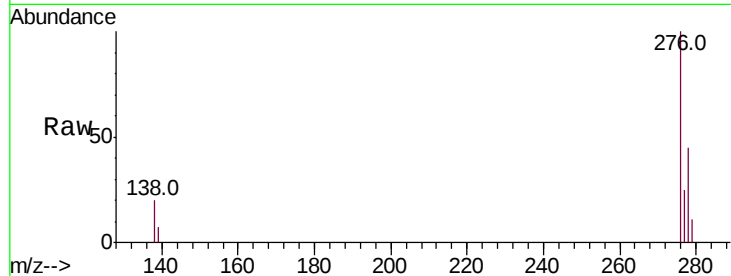
Tot Ion:278 Resp: 43015

Ion Ratio Lower Upper

278 100

139 15.6 16.0 24.0#

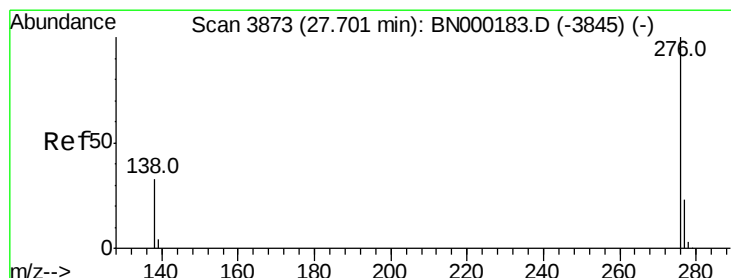
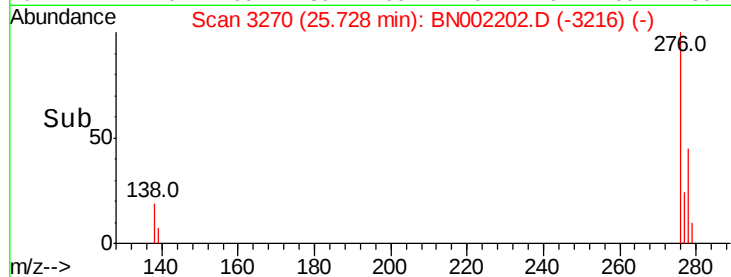
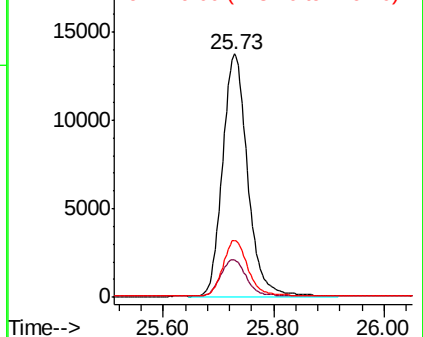
279 23.4 20.0 30.0



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(g,h,i)perylene

Concen: 2.360 ng

RT: 26.40 min Scan# 3465

Delta R.T. -0.01 min

Lab File: BN002202.D

Acq: 31 Jul 2018 09:11

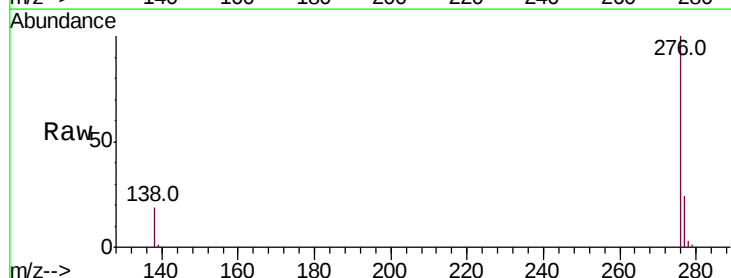
Tgt Ion:276 Resp: 87504

Ion Ratio Lower Upper

276 100

277 23.6 16.0 24.0

138 19.3 20.0 30.0#



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

