

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082119\
 Data File : BN007299.D
 Acq On : 21 Aug 2019 20:34
 Operator : HP/JU
 Sample : K4440-11
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 22 05:00:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 20 18:52:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.41	152	6025	0.40	ng	0.00
7) Naphthalene-d8	10.16	136	22626	0.40	ng	0.00
13) Acenaphthene-d10	14.06	164	12418	0.40	ng	0.00
19) Phenanthrene-d10	16.80	188	28450	0.40	ng	0.00
27) Chrysene-d12	21.03	240	29790	0.40	ng	0.00
34) Perylene-d12	23.14	264	34770	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.04	112	3190	0.17	ng	0.00
5) Phenol-d6	6.61	99	4019	0.18	ng	0.00
8) Nitrobenzene-d5	8.54	82	2817	0.16	ng	0.00
11) 2-Methylnaphthalene-d10	11.77	152	6145	0.16	ng	0.00
14) 2,4,6-Tribromophenol	15.56	330	1218	0.17	ng	0.00
15) 2-Fluorobiphenyl	12.68	172	7898	0.15	ng	0.00
25) Fluoranthene-d10	18.85	212	14484	0.16	ng	0.00
29) Terphenyl-d14	19.48	244	10849	0.15	ng	0.00

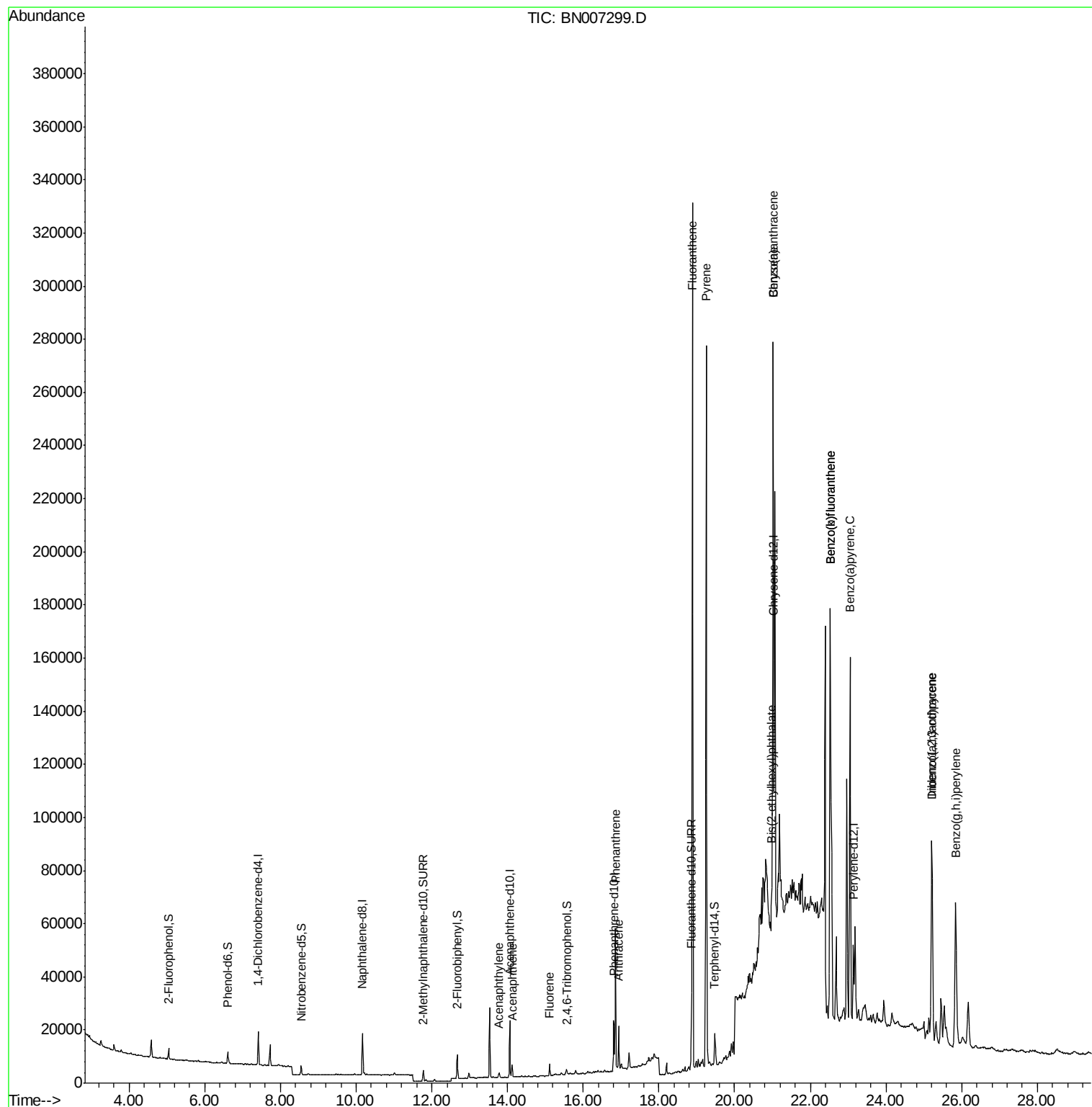
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acenaphthylene	13.77	152	3057	0.046	ng	98
17) Acenaphthene	14.12	154	2734	0.065	ng	99
18) Fluorene	15.12	166	3653	0.067	ng	94
23) Phenanthrene	16.85	178	58777	0.659	ng	100
24) Anthracene	16.94	178	16096	0.200	ng	# 94
26) Fluoranthene	18.88	202	289022	2.676	ng	99
28) Pyrene	19.25	202	258564	2.321	ng	# 94
30) Benzo(a)anthracene	21.02	228	192989	1.742	ng	95
31) Chrysene	21.02	228	181605	1.607	ng	96
32) Bis(2-ethylhexyl)phthalate	20.98	149	8021	0.181	ng	# 76
33) Indeno(1,2,3-cd)pyrene	25.21	276	114083	0.839	ng	95
35) Benzo(b)fluoranthene	22.52	252	234401	1.808	ng	# 94
36) Benzo(k)fluoranthene	22.52	252	234401	1.846	ng	# 94
37) Benzo(a)pyrene	23.05	252	181312	1.552	ng	# 94
38) Dibenzo(a,h)anthracene	25.22	278	30629	0.250	ng	# 58
39) Benzo(g,h,i)perylene	25.84	276	112105	0.904	ng	93

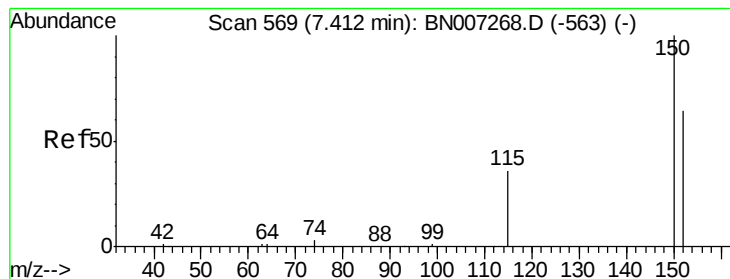
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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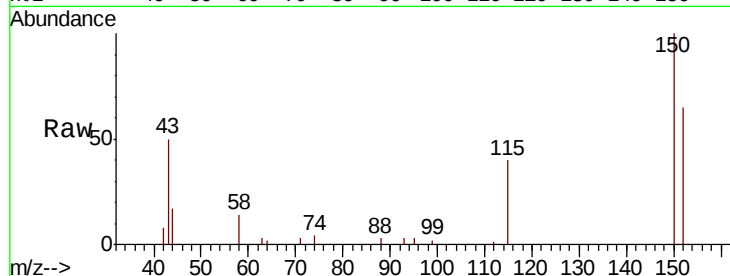


#1

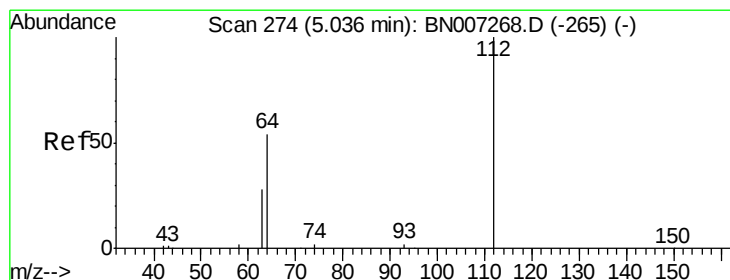
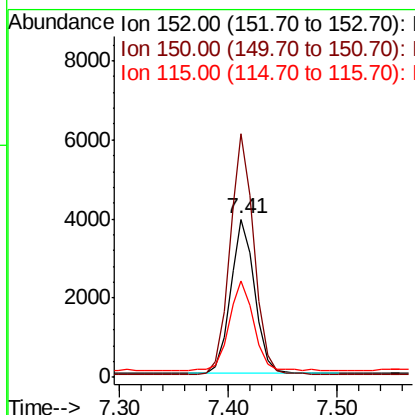
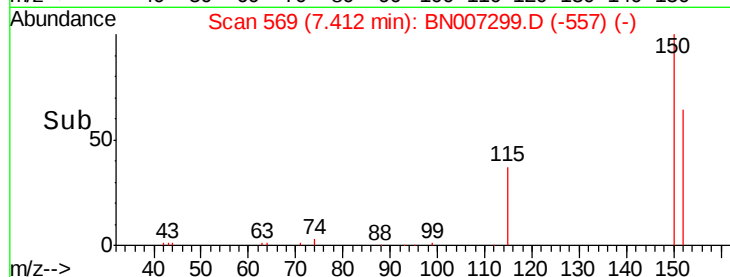
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.41 min Scan# 569
Delta R.T. -0.00 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 6025
Ion Ratio Lower Upper
152 100
150 153.8 123.8 185.8
115 61.2 47.3 70.9



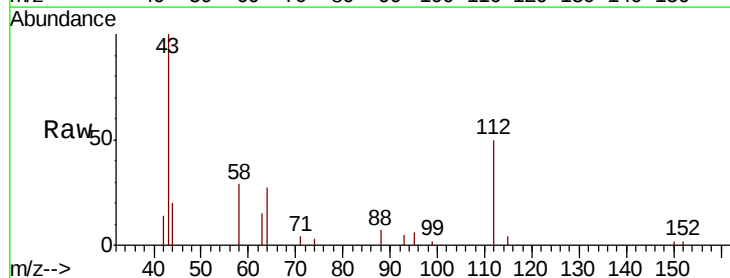
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



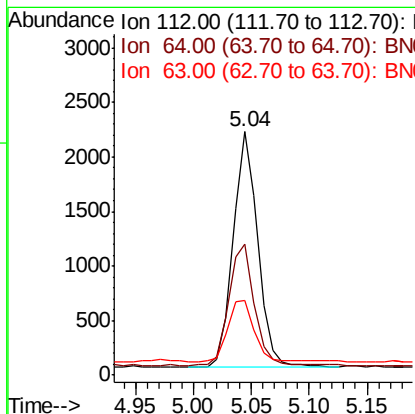
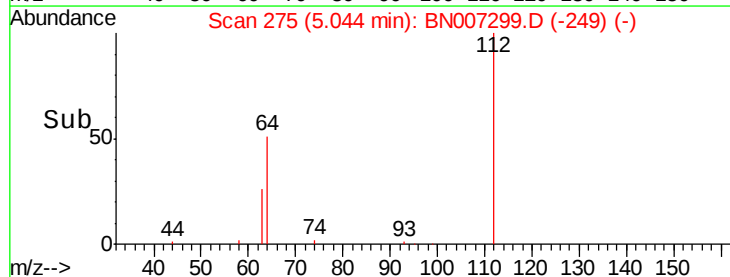
#4

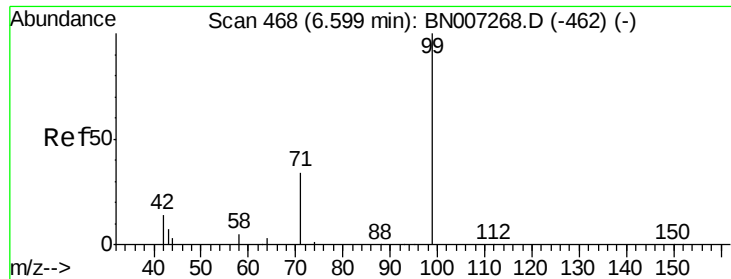
2-Fluorophenol
Concen: 0.174 ng
RT: 5.04 min Scan# 275
Delta R.T. 0.01 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Tgt Ion:112 Resp: 3190
Ion Ratio Lower Upper
112 100
64 53.4 41.8 62.8
63 28.2 22.6 34.0



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: 0.182 ng

RT: 6.61 min Scan# 469

Delta R.T. 0.01 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

BNA_N

ClientSampled :

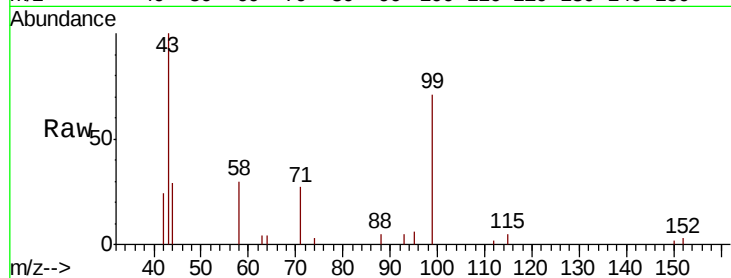
Tot Ion: 99 Resp: 4019

Ion Ratio Lower Upper

99 100

42 20.6 14.3 21.5

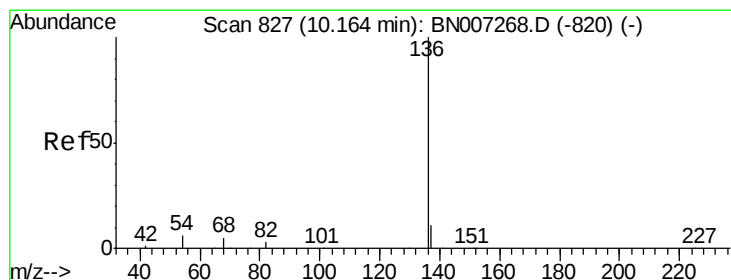
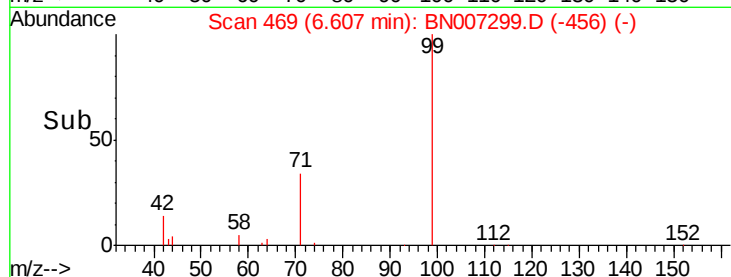
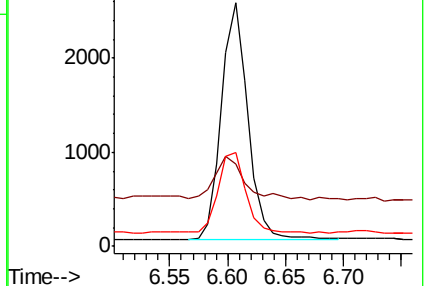
71 35.2 27.3 40.9



Abundance Ion 99.00 (98.70 to 99.70): BN007268.D (-462) (-)

Ion 42.00 (41.70 to 42.70): BN007268.D (-462) (-)

Ion 71.00 (70.70 to 71.70): BN007268.D (-462) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.16 min Scan# 827

Delta R.T. -0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Tgt Ion: 136 Resp: 22626

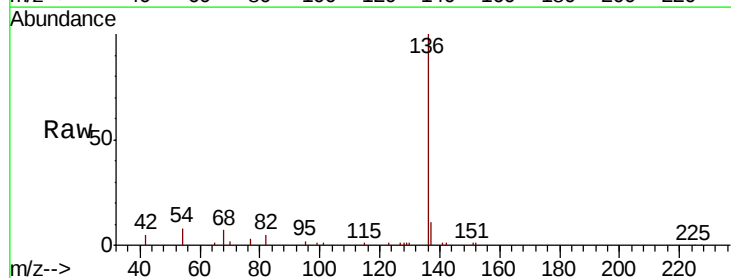
Ion Ratio Lower Upper

136 100

137 11.5 9.1 13.7

54 7.6 5.9 8.9

68 7.1 5.6 8.4

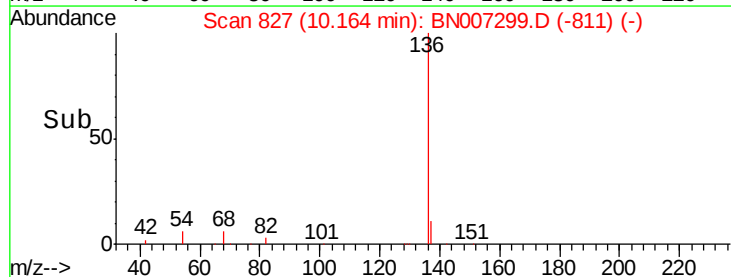
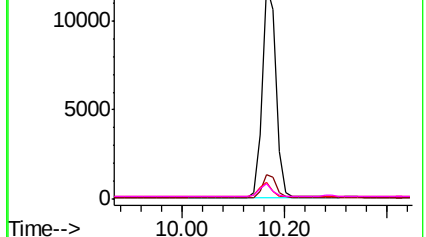


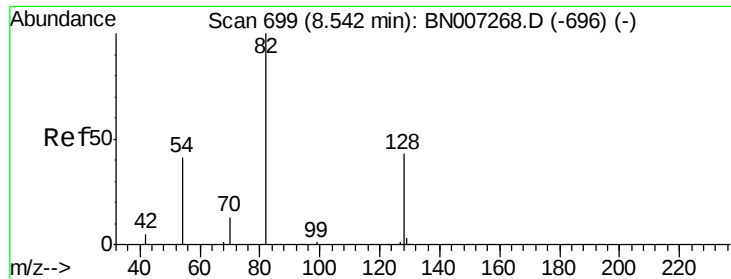
Abundance Ion 136.00 (135.70 to 136.70): BN007268.D (-820) (-)

Ion 137.00 (136.70 to 137.70): BN007268.D (-820) (-)

Ion 54.00 (53.70 to 54.70): BN007268.D (-820) (-)

Ion 68.00 (67.70 to 68.70): BN007268.D (-820) (-)





#8

Nitrobenzene-d5

Concen: 0.162 ng

RT: 8.54 min Scan# 699

Delta R.T. -0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

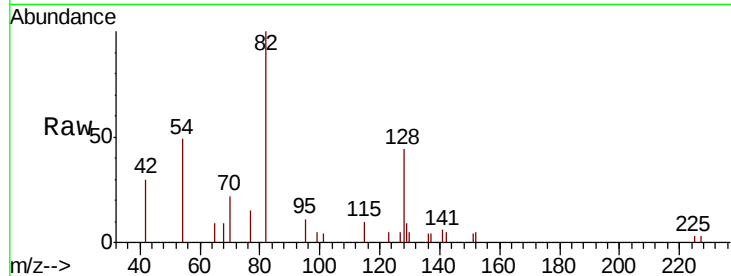
Tot Ion: 82 Resp: 2817

Ion Ratio Lower Upper

82 100

128 43.6 35.8 53.6

54 48.8 34.7 52.1

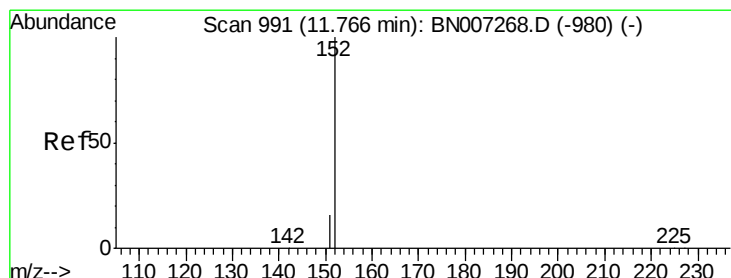
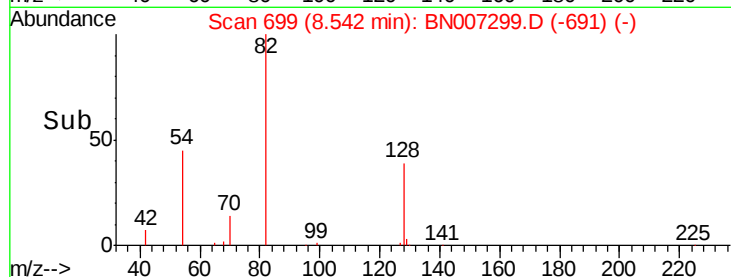
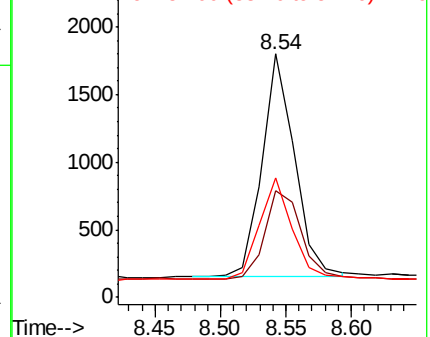


Abundance

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



#11

2-Methylnaphthalene-d10

Concen: 0.157 ng

RT: 11.77 min Scan# 992

Delta R.T. 0.00 min

Lab File: BN007299.D

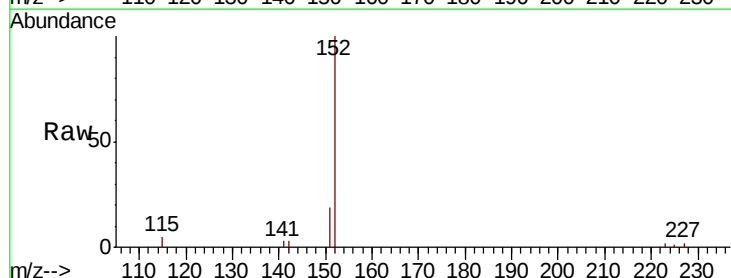
Acq: 21 Aug 2019 20:34

Tgt Ion: 152 Resp: 6145

Ion Ratio Lower Upper

152 100

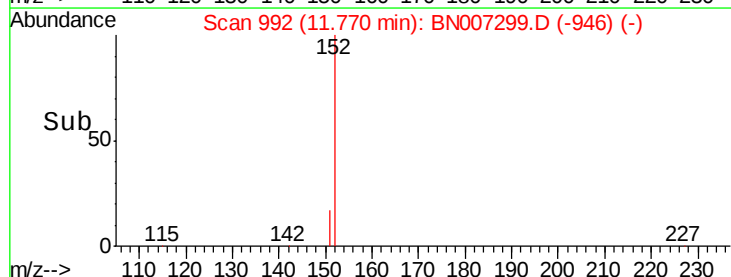
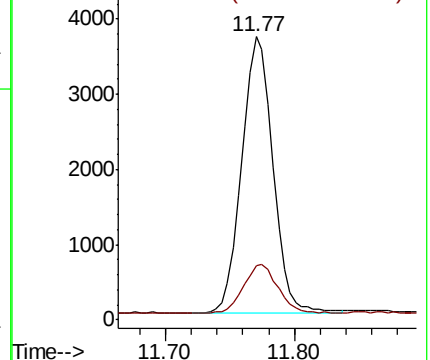
151 19.7 15.2 22.8

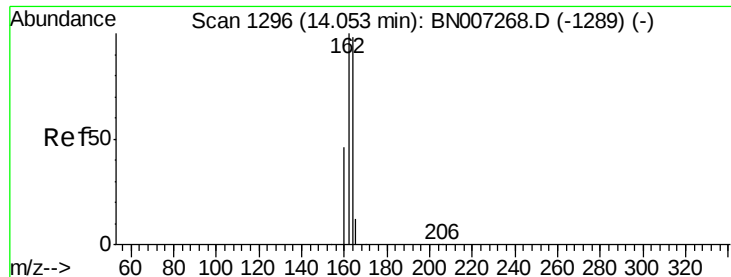


Abundance

Ion 152.00 (151.70 to 152.70): BNC

Ion 151.00 (150.70 to 151.70): BNC





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.06 min Scan# 1297

Delta R.T. 0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

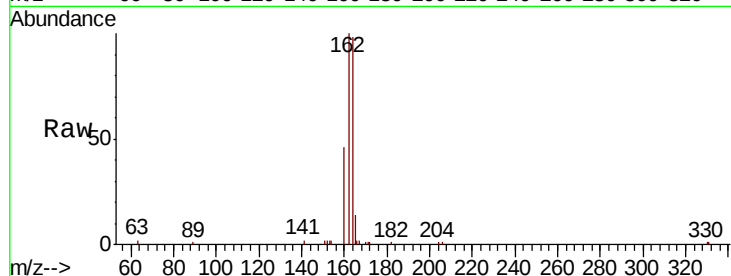
Tot Ion:164 Resp: 12418

Ion Ratio Lower Upper

164 100

162 102.3 82.0 123.0

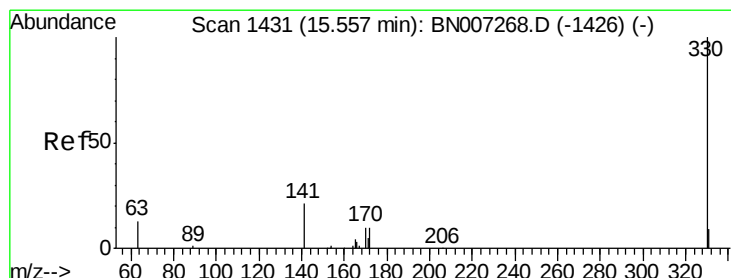
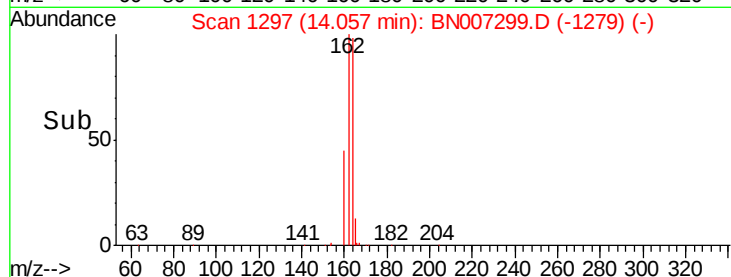
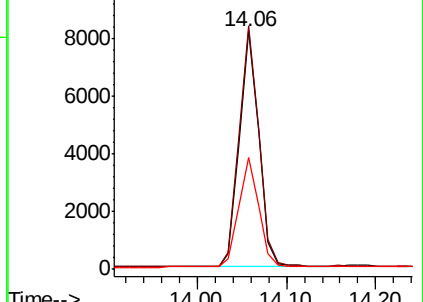
160 46.9 38.2 57.4



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: 0.175 ng

RT: 15.56 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

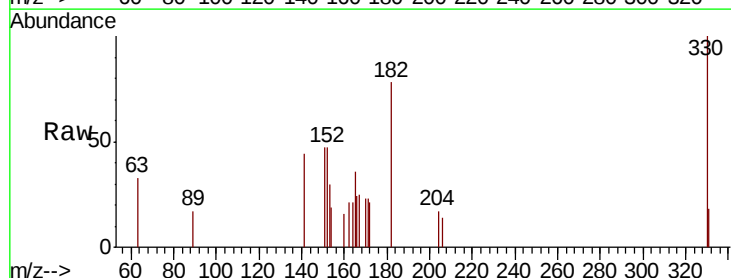
Tgt Ion:330 Resp: 1218

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

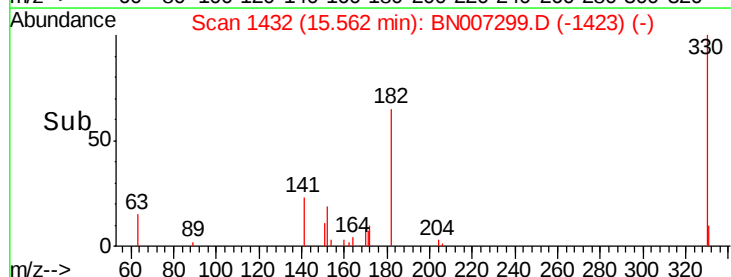
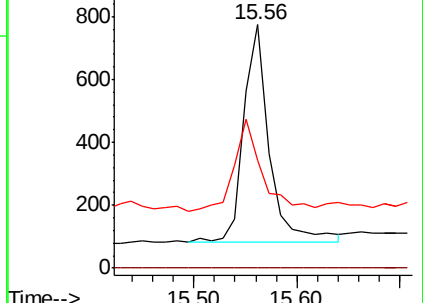
141 45.9 30.3 45.5#

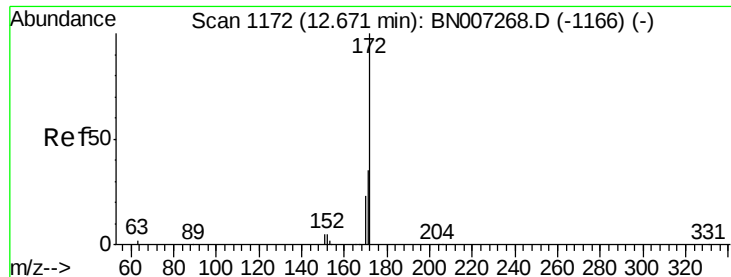


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.148 ng

RT: 12.68 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

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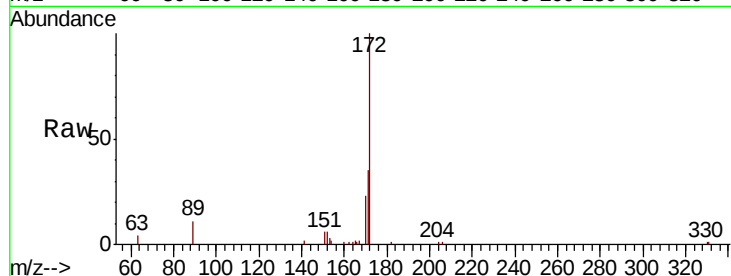
Tot Ion:172 Resp: 7898

Ion Ratio Lower Upper

172 100

171 35.1 28.6 43.0

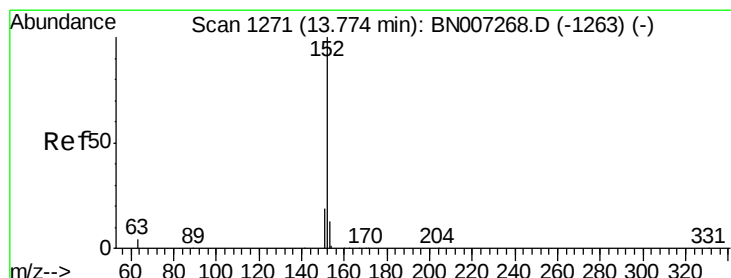
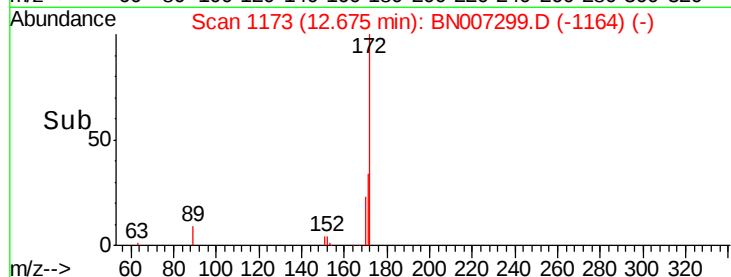
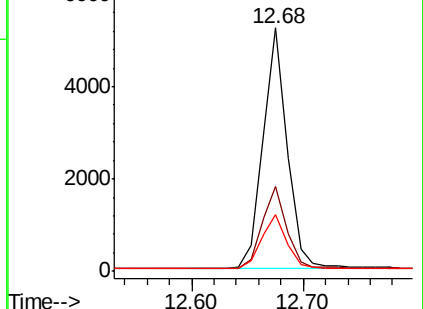
170 23.5 18.7 28.1



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: 0.046 ng

RT: 13.77 min Scan# 1271

Delta R.T. -0.01 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

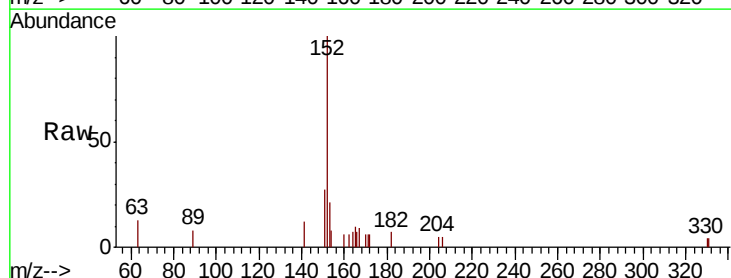
Tgt Ion:152 Resp: 3057

Ion Ratio Lower Upper

152 100

151 19.9 15.4 23.2

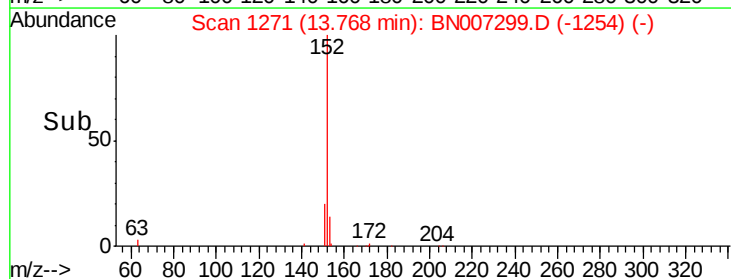
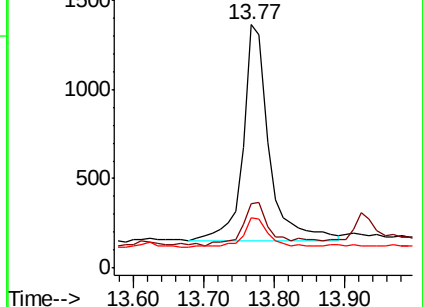
153 14.3 10.1 15.1

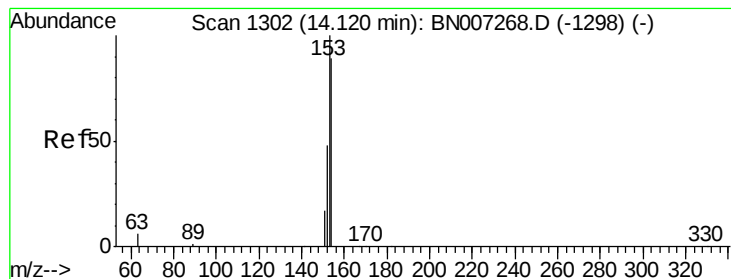


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.065 ng

RT: 14.12 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

BNA_N

ClientSampled :

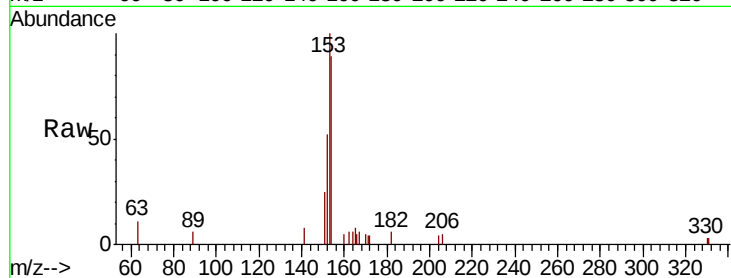
Tot Ion:154 Resp: 2734

Ion Ratio Lower Upper

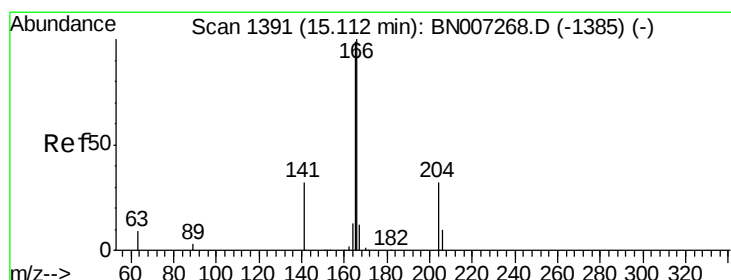
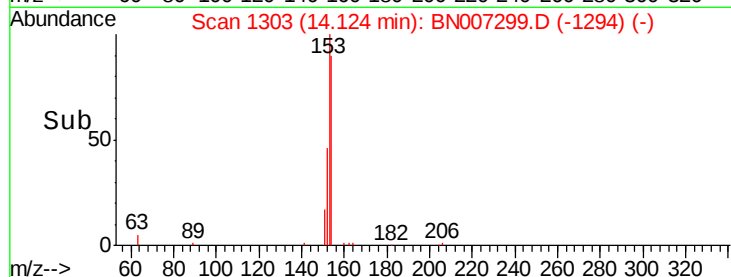
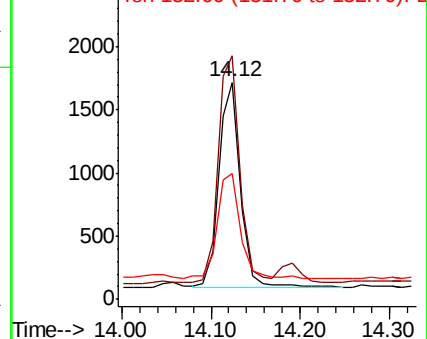
154 100

153 111.9 89.9 134.9

152 56.7 43.9 65.9



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: 0.067 ng

RT: 15.12 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

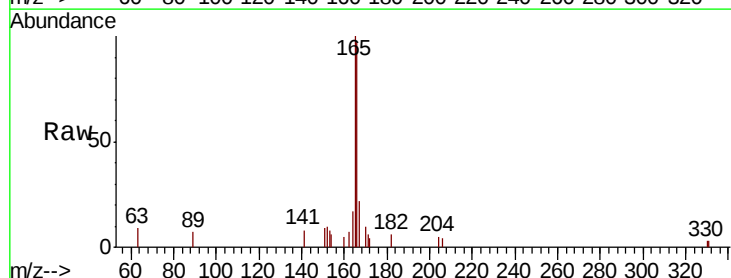
Tgt Ion:166 Resp: 3653

Ion Ratio Lower Upper

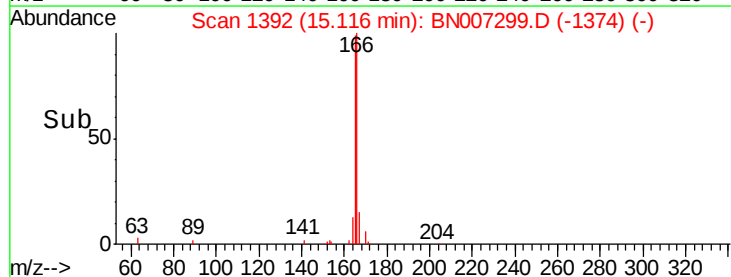
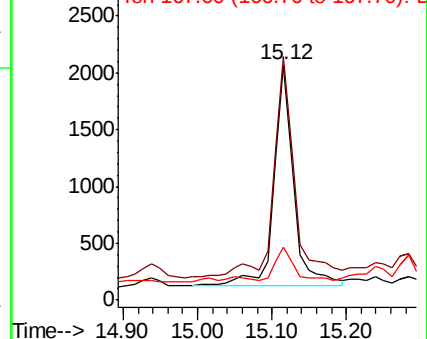
166 100

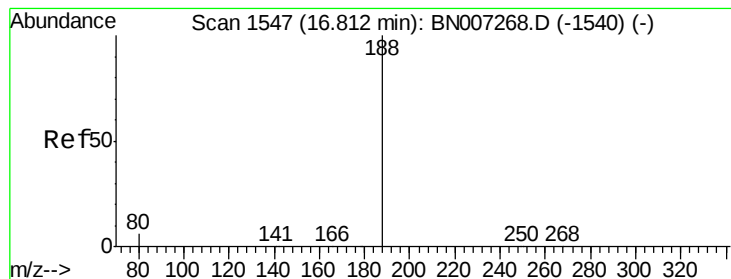
165 105.1 78.3 117.5

167 13.7 11.1 16.7



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: 16.80 min Scan# 1547

Delta R.T. -0.01 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

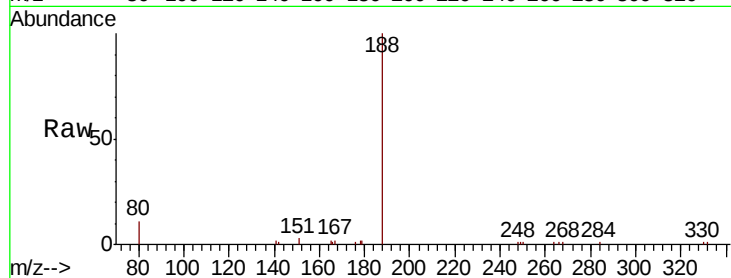
Tot Ion:188 Resp: 28450

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

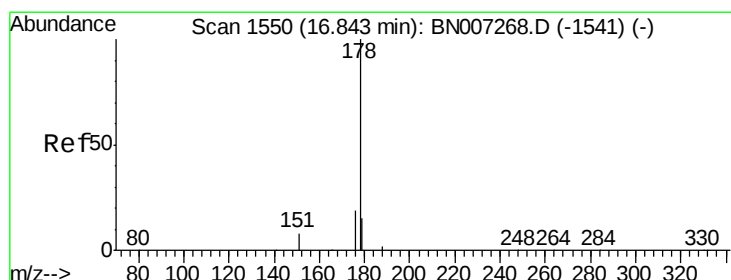
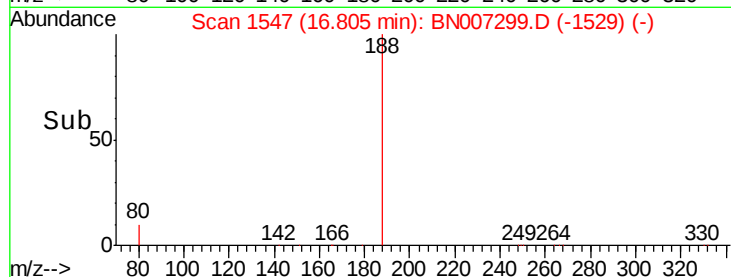
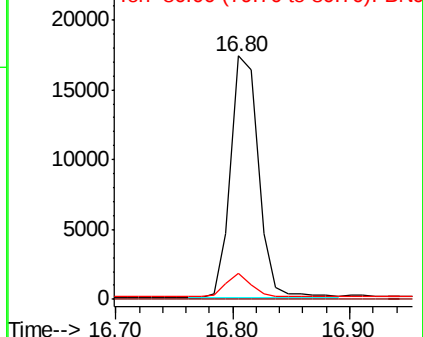
80 10.7 5.2 7.8#



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



#23

Phenanthrene

Concen: 0.659 ng

RT: 16.85 min Scan# 1551

Delta R.T. 0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

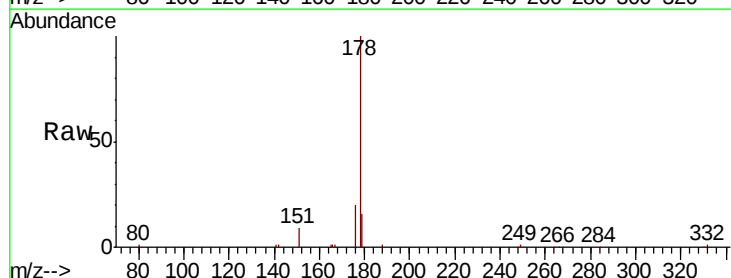
Tgt Ion:178 Resp: 58777

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

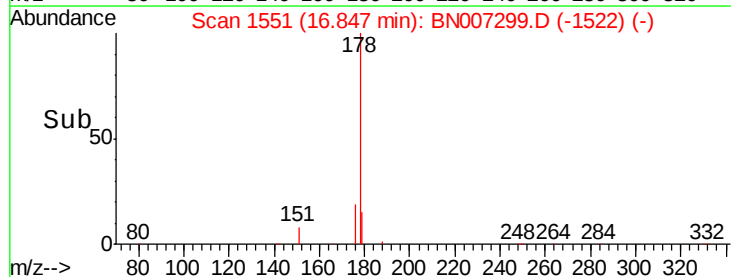
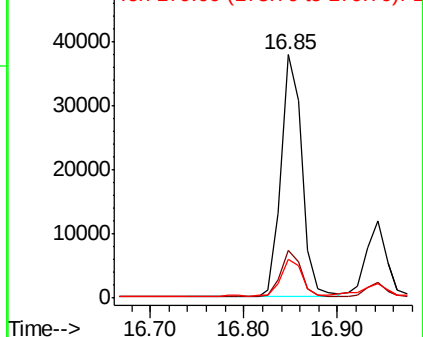
179 15.7 12.3 18.5

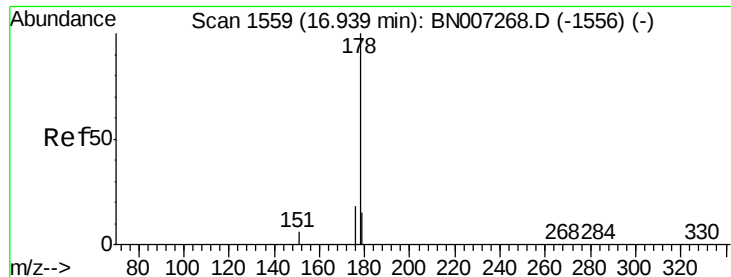


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.200 ng

RT: 16.94 min Scan# 1560

Delta R.T. 0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

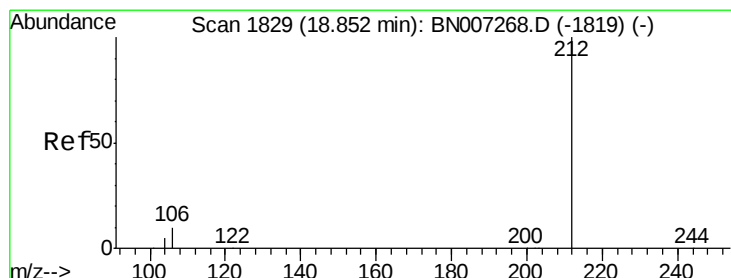
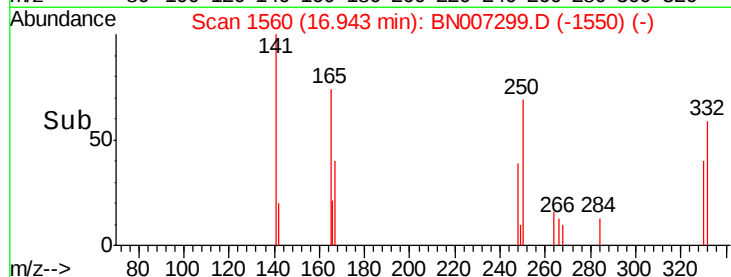
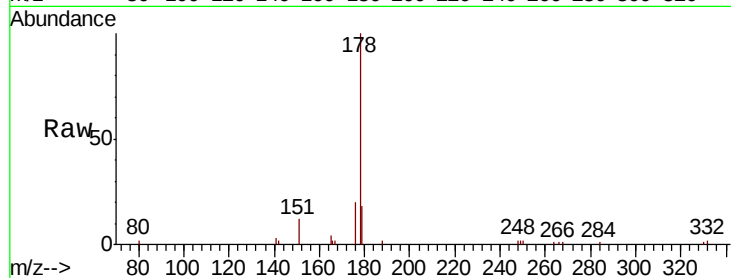
Tot Ion:178 Resp: 16096

Ion Ratio Lower Upper

178 100

176 19.9 14.3 21.5

179 18.7 12.3 18.5#



#25

Fluoranthene-d10

Concen: 0.161 ng

RT: 18.85 min Scan# 1831

Delta R.T. 0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

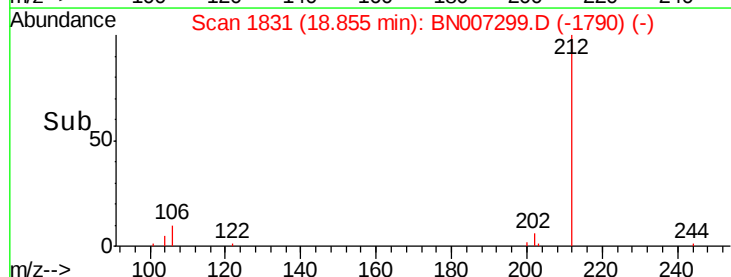
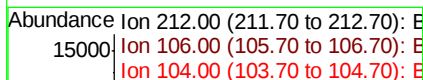
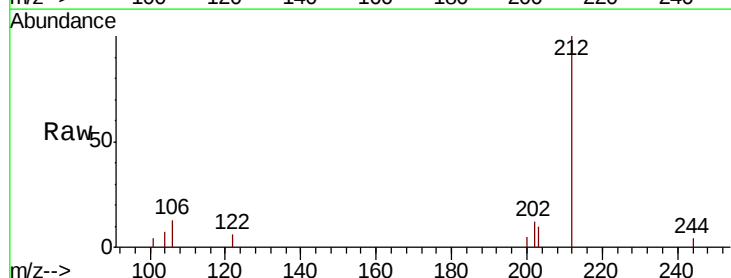
Tgt Ion:212 Resp: 14484

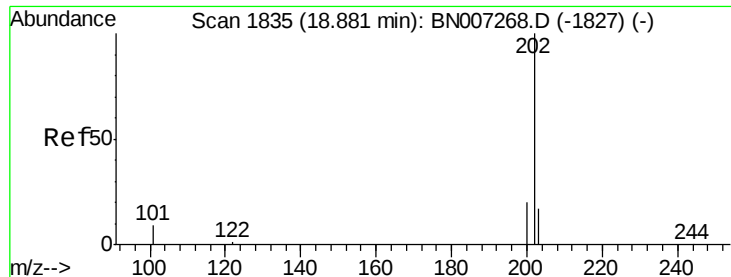
Ion Ratio Lower Upper

212 100

106 11.2 8.2 12.4

104 6.5 4.7 7.1

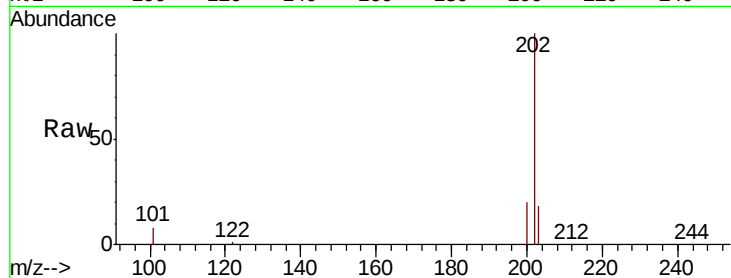




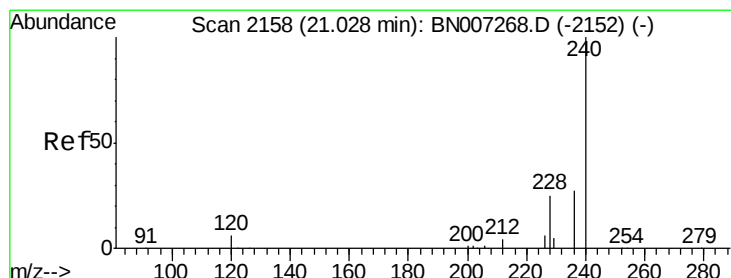
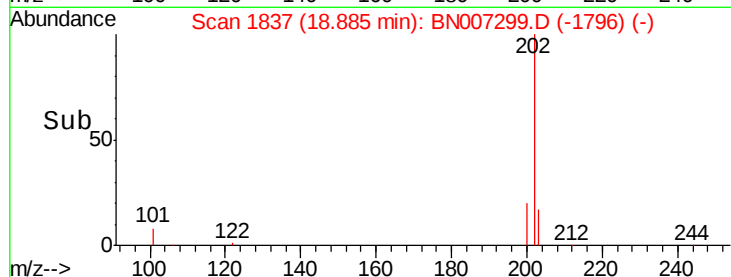
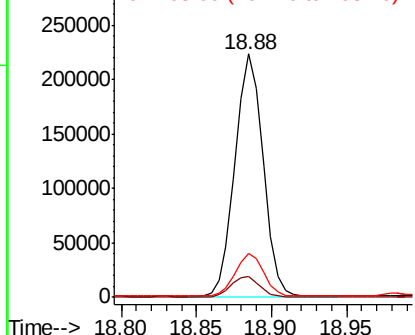
#26
Fluoranthene
Concen: 2.676 ng
RT: 18.88 min Scan# 1837
Delta R.T. 0.00 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 289022
Ion Ratio Lower Upper
202 100
101 8.6 7.2 10.8
203 17.5 13.8 20.6

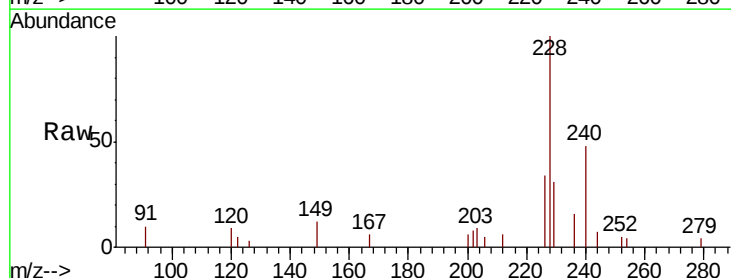


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

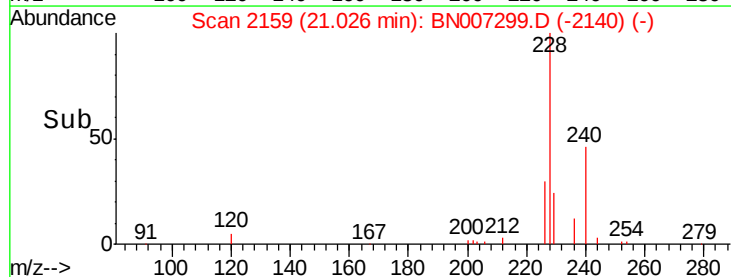
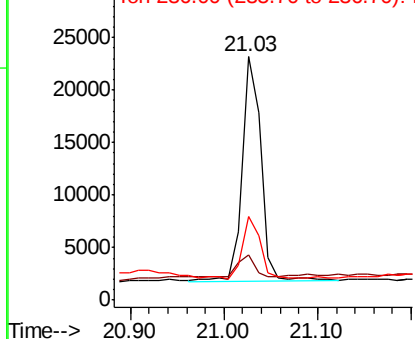


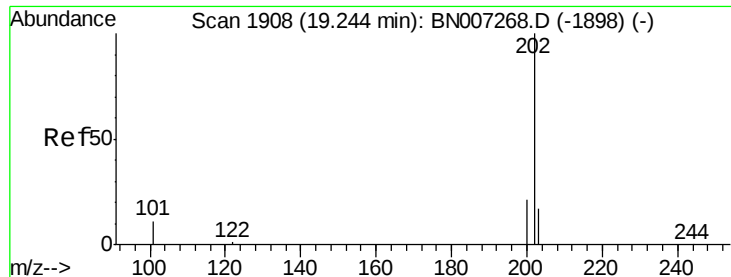
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.03 min Scan# 2159
Delta R.T. -0.00 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Tgt Ion:240 Resp: 29790
Ion Ratio Lower Upper
240 100
120 18.3 5.6 8.4#
236 34.1 21.6 32.4#



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

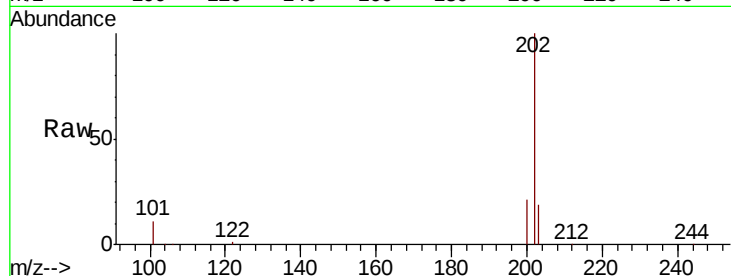




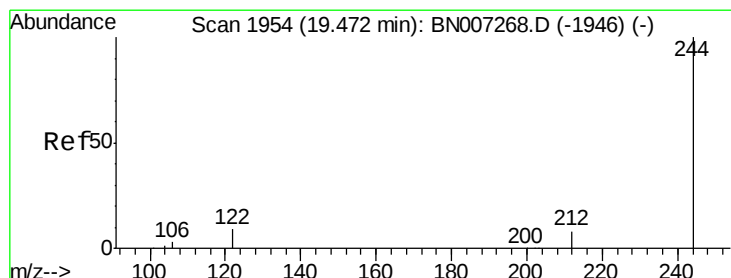
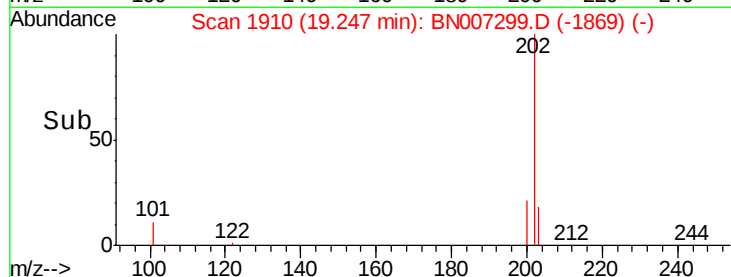
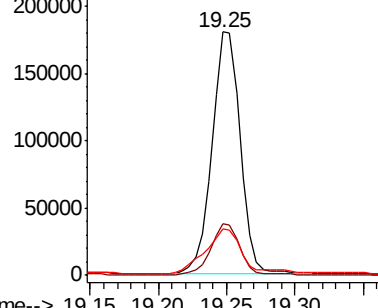
#28
Pvrene
Concen: 2.321 ng
RT: 19.25 min Scan# 1910
Delta R.T. 0.00 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 258564
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 22.5 13.9 20.9#

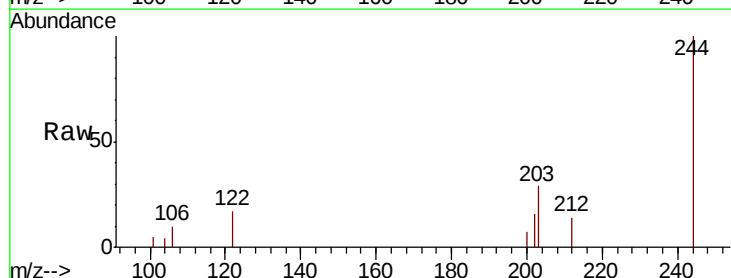


Abundance Ion 202.00 (201.70 to 202.70): E
250000
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

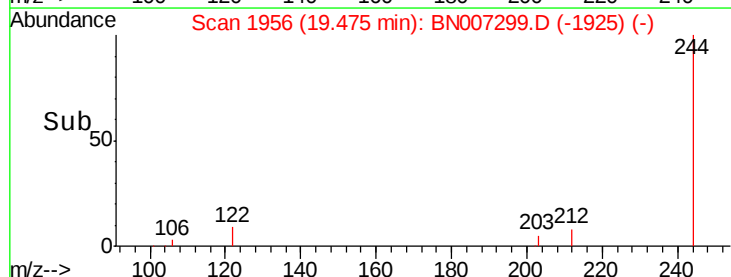
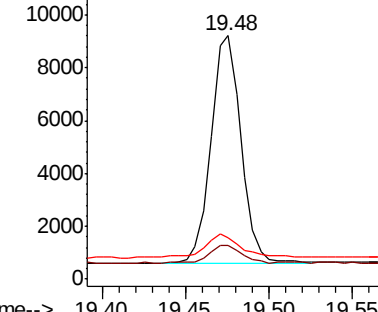


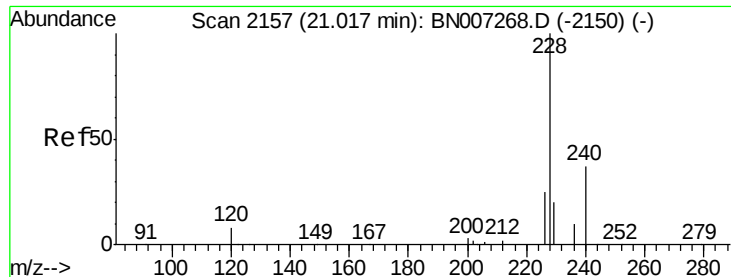
#29
Terphenyl-d14
Concen: 0.146 ng
RT: 19.48 min Scan# 1956
Delta R.T. 0.00 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Tgt Ion:244 Resp: 10849
Ion Ratio Lower Upper
244 100
212 13.6 6.5 9.7#
122 17.2 7.9 11.9#



Abundance Ion 244.00 (243.70 to 244.70): E
12000
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 1.742 ng

RT: 21.02 min Scan# 2158

Delta R.T. -0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

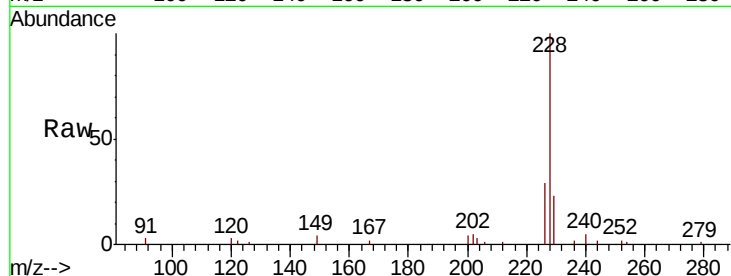
Tot Ion:228 Resp: 192989

Ion Ratio Lower Upper

228 100

226 29.1 20.6 30.8

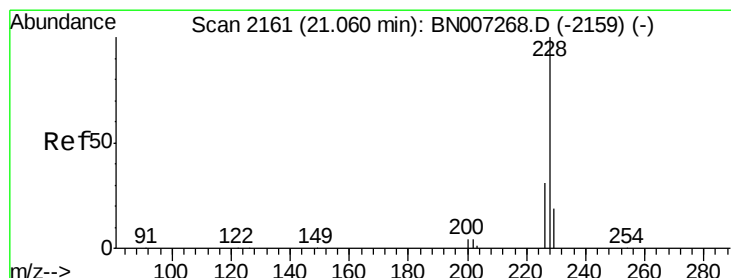
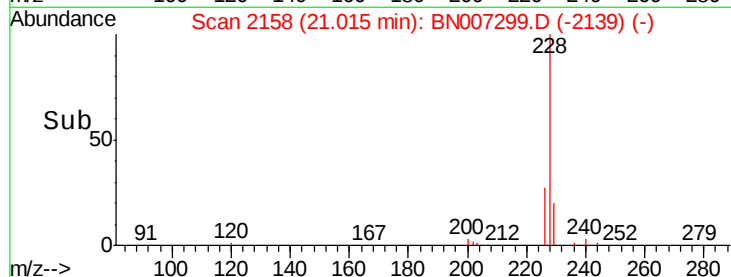
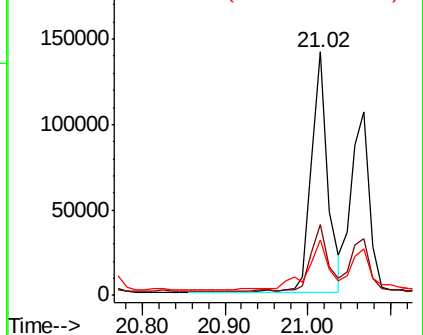
229 22.7 16.9 25.3



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: 1.607 ng

RT: 21.02 min Scan# 2158

Delta R.T. -0.04 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

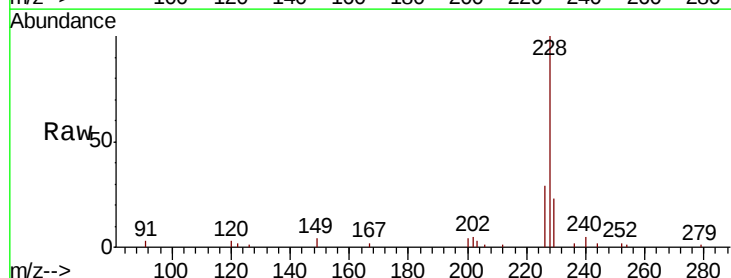
Tgt Ion:228 Resp: 181605

Ion Ratio Lower Upper

228 100

226 29.1 24.6 36.8

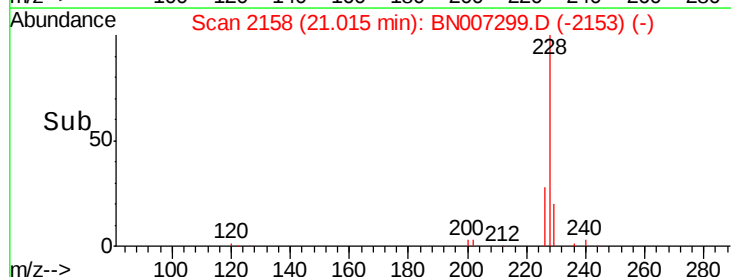
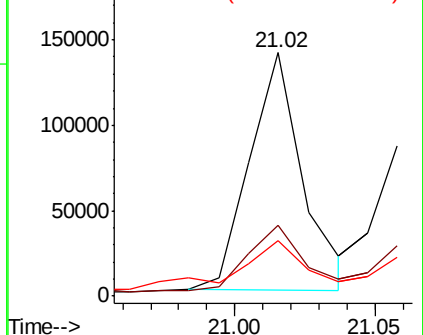
229 22.7 15.6 23.4

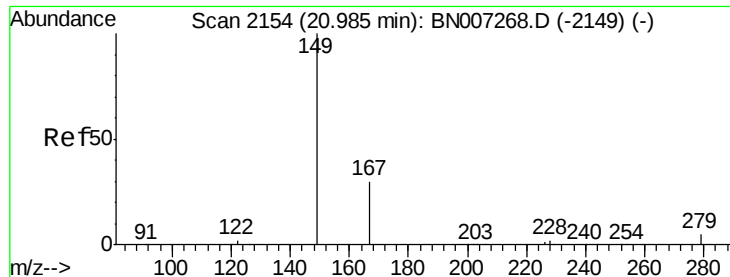


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

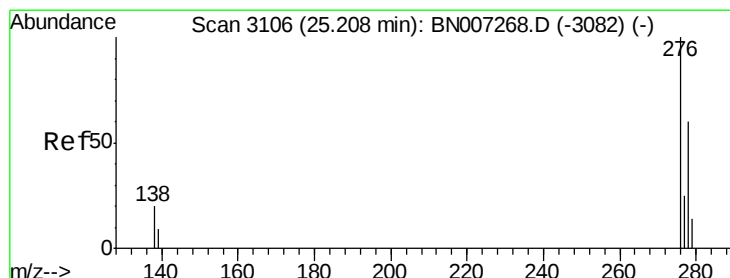
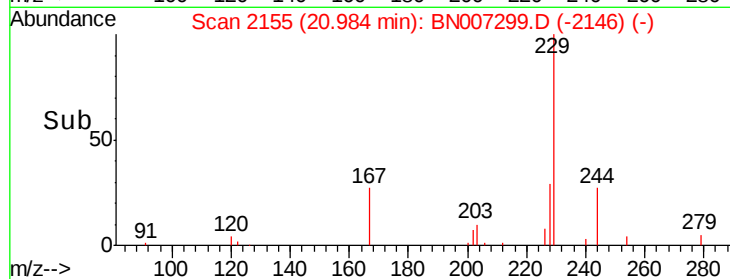
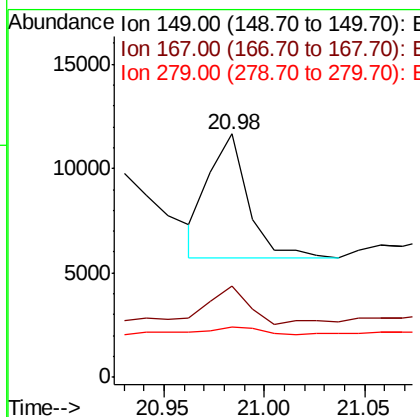
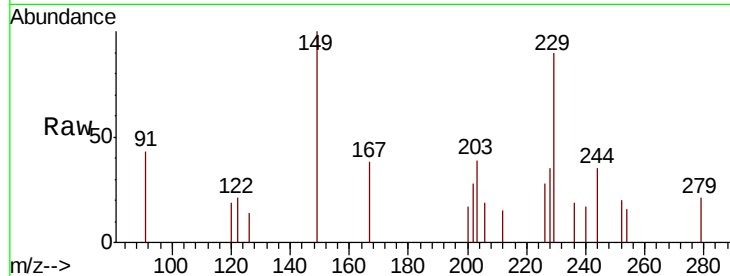




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.181 ng
 RT: 20.98 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: BN007299.D
 Acq: 21 Aug 2019 20:34

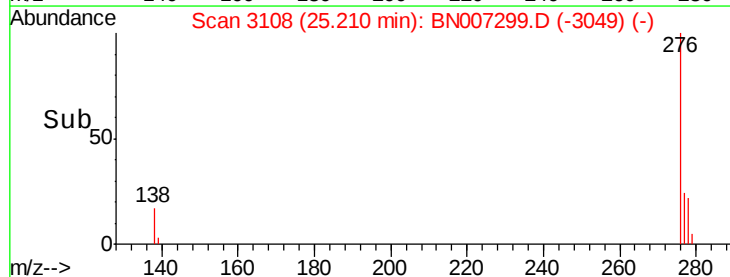
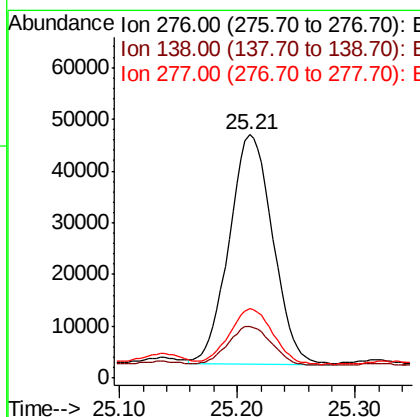
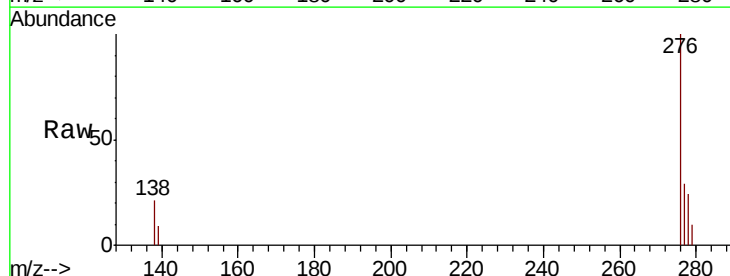
Instrument :
 BNA_N
 ClientSampleId :

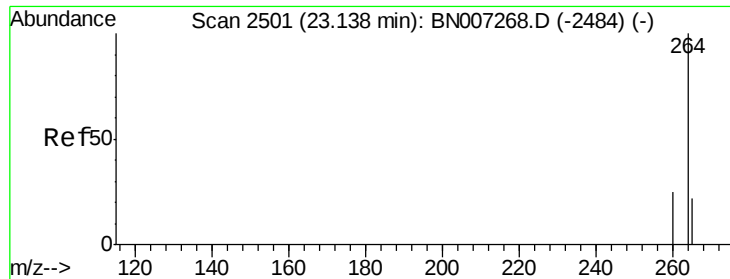
Tot Ion:149 Resp: 8021
 Ion Ratio Lower Upper
 149 100
 167 43.5 23.8 35.6#
 279 10.2 3.8 5.8#



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.839 ng
 RT: 25.21 min Scan# 3108
 Delta R.T. 0.00 min
 Lab File: BN007299.D
 Acq: 21 Aug 2019 20:34

Tgt Ion:276 Resp: 114083
 Ion Ratio Lower Upper
 276 100
 138 17.3 17.1 25.7
 277 24.3 20.1 30.1

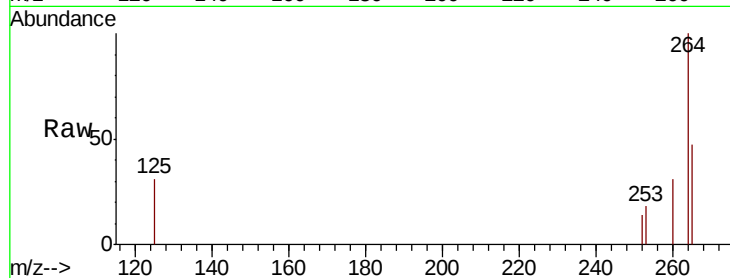




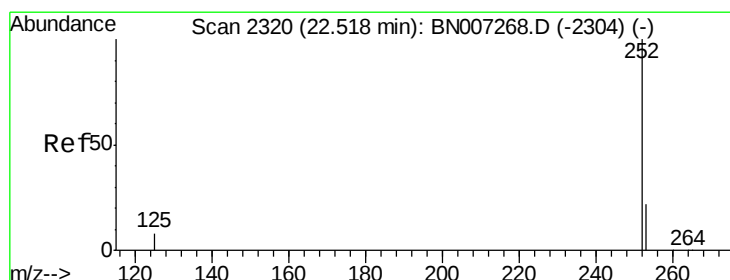
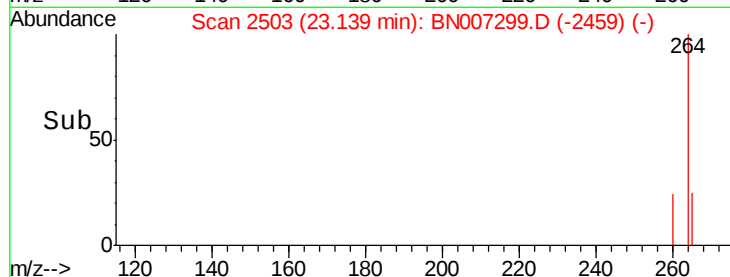
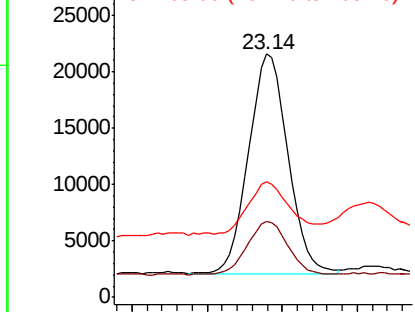
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.14 min Scan# 2503
Delta R.T. 0.00 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Instrument :
BNA_N
ClientSampled :

Tot Ion:264 Resp: 34770
Ion Ratio Lower Upper
264 100
260 31.4 20.1 30.1#
265 47.4 29.0 43.6#

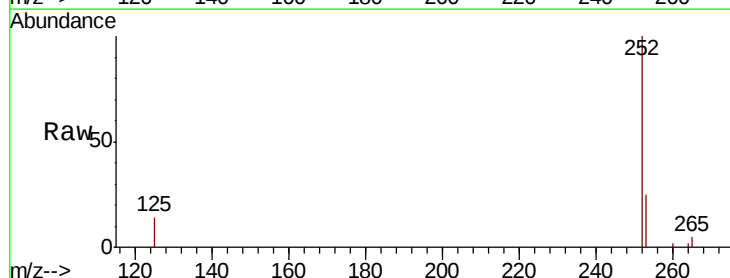


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

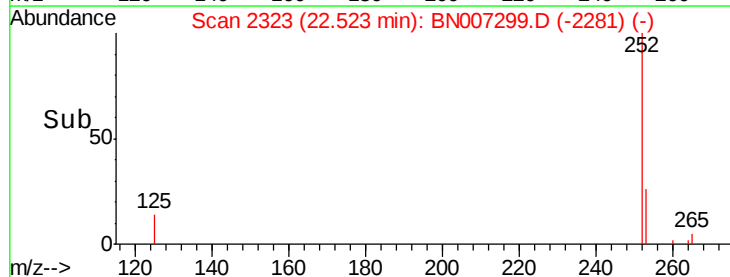
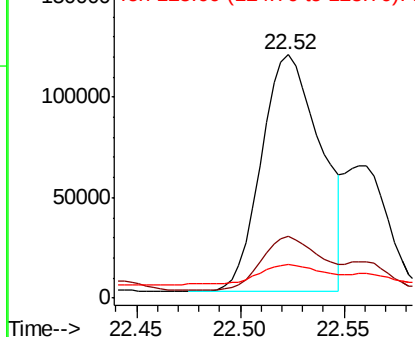


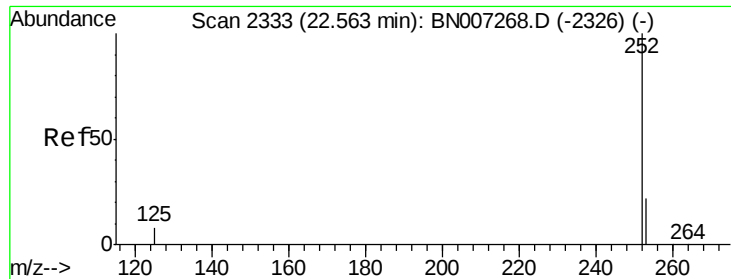
#35
Benzo(b)fluoranthene
Concen: 1.808 ng
RT: 22.52 min Scan# 2323
Delta R.T. 0.01 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Tgt Ion:252 Resp: 234401
Ion Ratio Lower Upper
252 100
253 25.2 18.5 27.7
125 13.7 7.8 11.6#



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

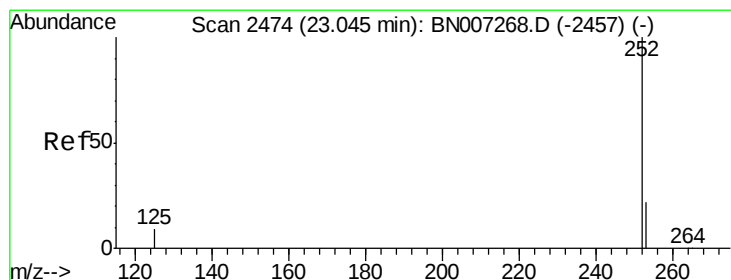
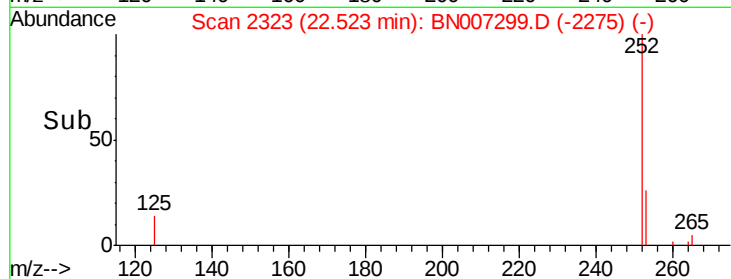
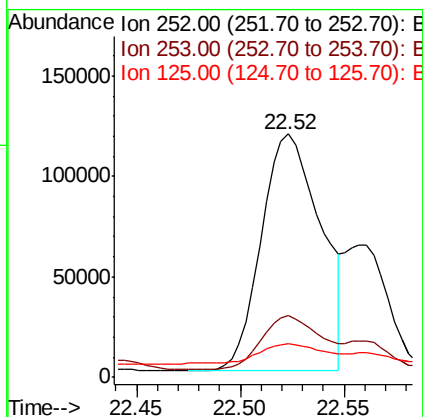
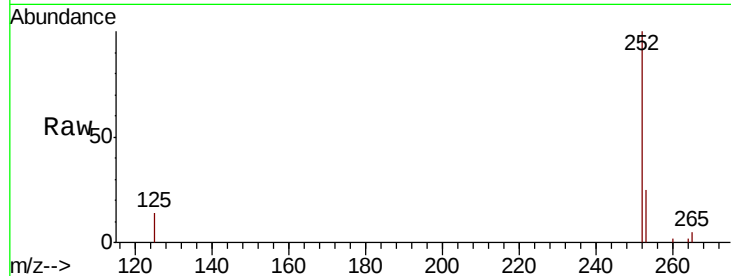




#36
Benzo(k)fluoranthene
Concen: 1.846 ng
RT: 22.52 min Scan# 2323
Delta R.T. -0.04 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

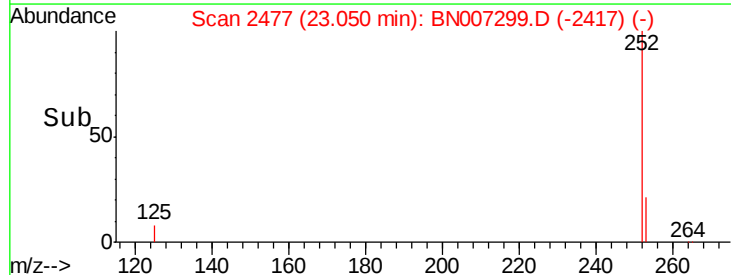
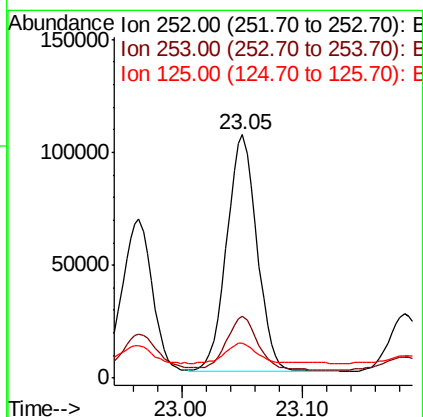
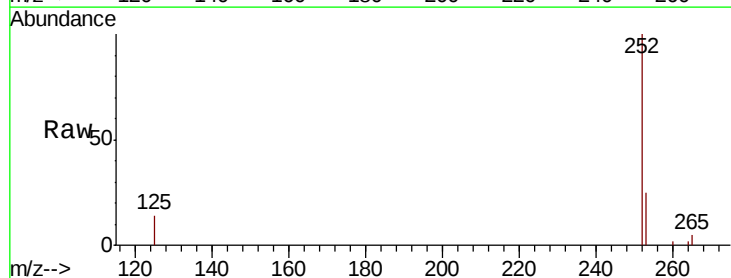
Instrument :
BNA_N
ClientSampleId :

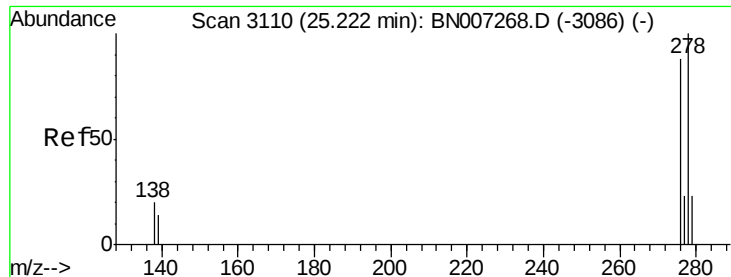
Tot Ion:252 Resp: 234401
Ion Ratio Lower Upper
252 100
253 25.2 18.4 27.6
125 13.7 8.0 12.0#



#37
Benzo(a)pyrene
Concen: 1.552 ng
RT: 23.05 min Scan# 2477
Delta R.T. 0.01 min
Lab File: BN007299.D
Acq: 21 Aug 2019 20:34

Tgt Ion:252 Resp: 181312
Ion Ratio Lower Upper
252 100
253 25.4 18.7 28.1
125 14.3 8.7 13.1#





#38

Dibenzo(a,h)anthracene

Concen: 0.250 ng

RT: 25.22 min Scan# 3111

Delta R.T. -0.00 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

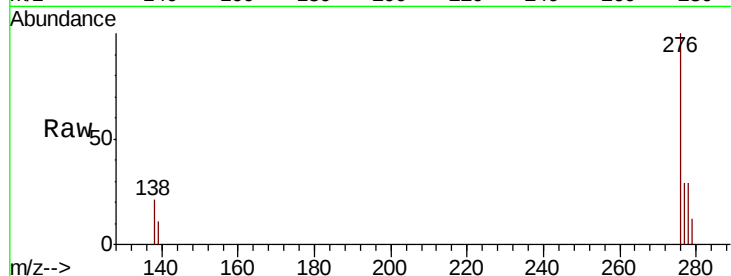
Tot Ion:278 Resp: 30629

Ion Ratio Lower Upper

278 100

139 37.8 11.8 17.8#

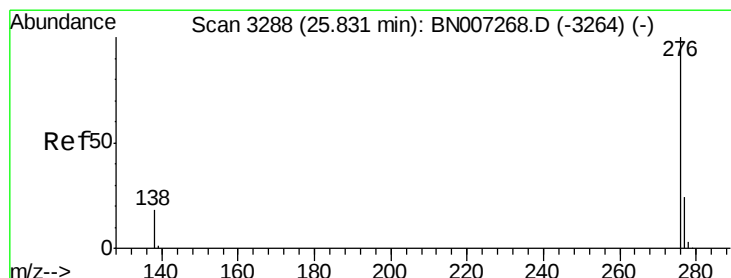
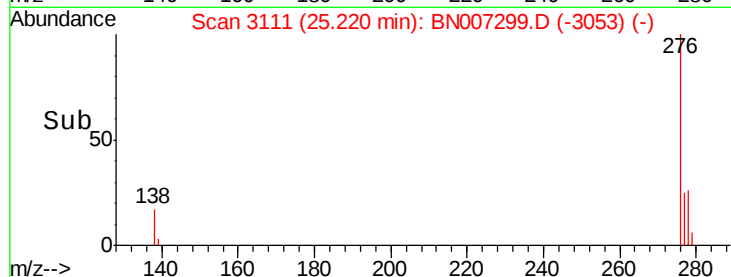
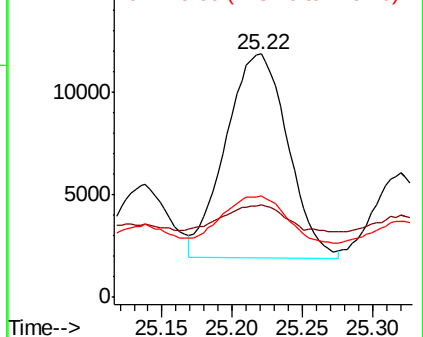
279 41.9 19.8 29.6#



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: 0.904 ng

RT: 25.84 min Scan# 3292

Delta R.T. 0.01 min

Lab File: BN007299.D

Acq: 21 Aug 2019 20:34

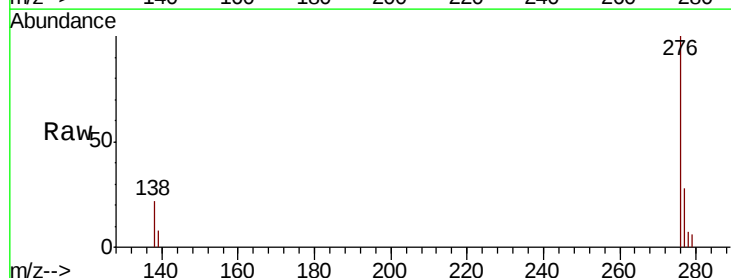
Tgt Ion:276 Resp: 112105

Ion Ratio Lower Upper

276 100

277 28.3 19.5 29.3

138 21.8 15.3 22.9



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

