

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN020620\
 Data File : BN009636.D
 Acq On : 07 Feb 2020 07:47
 Operator : CG/JU
 Sample : L1324-15 10X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAT70

Quant Time: Feb 07 11:16:38 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN020320MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Feb 07 11:12:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	210760	20.00	ng/ul	0.00
18) Naphthalene-d8	10.20	136	854822	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.07	164	536111	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.83	188	1011034	20.00	ng/ul	0.00
77) Chrysene-d12	21.06	240	880608	20.00	ng/ul	0.02
85) Perylene-d12	23.17	264	987580	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.09	96	678	0.13	ng/uL	0.02
5) Phenol-d5	6.64	99	28528	1.55	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.79	67	24534	1.99	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	21821	1.61	ng/ul	0.00
13) 4-Methylphenol-d8	8.15	113	24499	1.67	ng/ul	0.00
19) Nitrobenzene-d5	8.59	128	15191	2.39	ng/ul	0.01
22) 2-Nitrophenol-d4	9.29	143	12421	1.75	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.83	165	22256	1.67	ng/ul	0.02
29) 4-Chloroaniline-d4	10.35	131	5025	0.35	ng/ul	0.01
43) Dimethylphthalate-d6	13.50	166	87763	2.24	ng/ul	0.00
46) Acenaphthylene-d8	13.77	160	90664	1.92	ng/ul	0.01
51) 4-Nitrophenol-d4	14.33	143	7905	1.07	ng/ul	0.02
57) Fluorene-d10	15.08	176	68416	1.99	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.22	200	344	0.05	ng/ul	0.00
70) Anthracene-d10	16.83	188	1011034	22.01	ng/ul	-0.09
78) Pyrene-d10	19.25	212	103905	2.24	ng/ul	0.01
89) Benzo(a)pyrene-d12	23.04	264	98092	2.02	ng/ul	0.02

Target Compounds

						Qvalue
4) Benzaldehyde	6.60	77	18277	1.45	ng/ul#	1
17) Hexachloroethane	8.46	117	89397	14.05	ng/ul#	8
30) 4-Chloroaniline	10.29	127	9526514	645.58	ng/ul#	6
34) 2-Methylnaphthalene	11.89	142	21730369	669.85	ng/ul	91
40) 1,1'-Biphenyl	12.90	154	3783705	90.65	ng/ul	99
42) 2-Nitroaniline	13.10	65	12499	1.06	ng/ul#	38
47) Acenaphthylene	13.80	152	15818407	305.67	ng/ul	96
49) Acenaphthene	14.14	153	1397977	39.74	ng/ul	100
53) Dibenzofuran	14.48	168	1427781	29.14	ng/ul	93
54) 2,4-Dinitrotoluene	14.49	165	40571	3.41	ng/ul#	1
58) Fluorene	15.15	166	9849139	240.57	ng/ul	100
60) 4-Nitroaniline	15.15	138	114495	12.21	ng/ul#	14
64) N-Nitrosodiphenylamine	15.36	169	76541	2.53	ng/ul#	65
69) Phenanthrene	16.98	178	8543607	148.18	ng/ul	99
71) Anthracene	16.98	178	8543607	146.04	ng/ul	99
74) Carbazole	17.24	167	359150	7.05	ng/ul	96
76) Fluoranthene	19.06	202	4787104	72.75	ng/ul	99
79) Pyrene	19.18	202	653043	10.16	ng/ul	97
82) Benzo(a)anthracene	21.05	228	8089311	133.05	ng/ul#	82
84) Chrysene	21.10	228	6857076	113.29	ng/ul	95
87) Benzo(b)fluoranthene	22.56	252	5920321	95.82	ng/ul	98
88) Benzo(k)fluoranthene	22.56	252	5920321	97.29	ng/ul#	98
90) Benzo(a)pyrene	23.10	252	6045266	105.60	ng/ul	99

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Quant Title : SVOA CALIBRATION
QLast Update : Fri Feb 07 11:12:58 2020
Response via : Initial Calibration

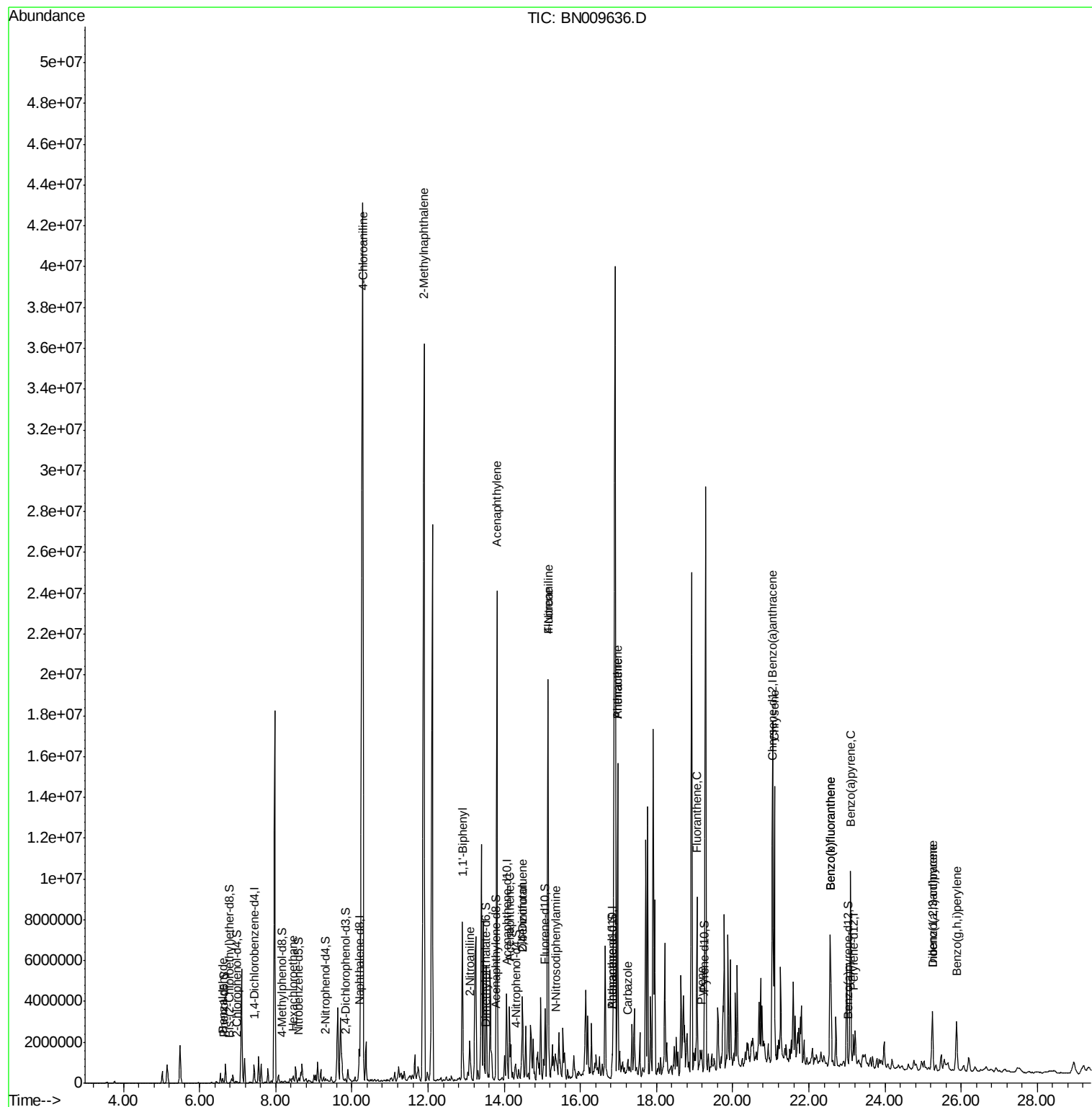
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Indeno(1,2,3-cd)pyrene	25.25	276	2480340	36.44	ng/ul	94
92) Dibenzo(a,h)anthracene	25.24	278	766117	13.37	ng/ul#	84
93) Benzo(g,h,i)perylene	25.88	276	2597928	45.54	ng/ul	97

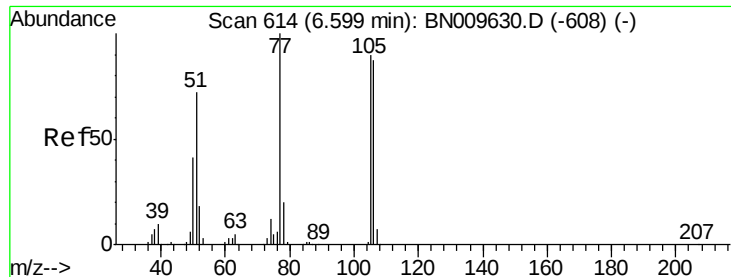
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.45 ng/ul

RT: 6.60 min Scan# 615

Delta R.T. 0.01 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampleId :

GAT70

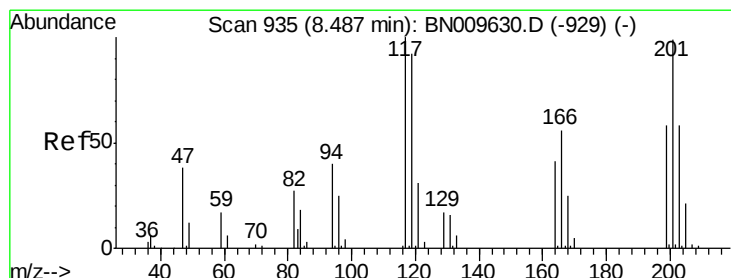
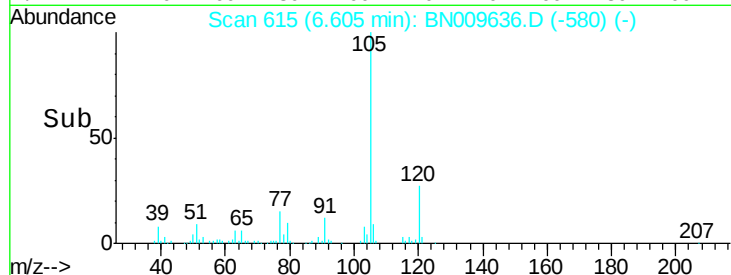
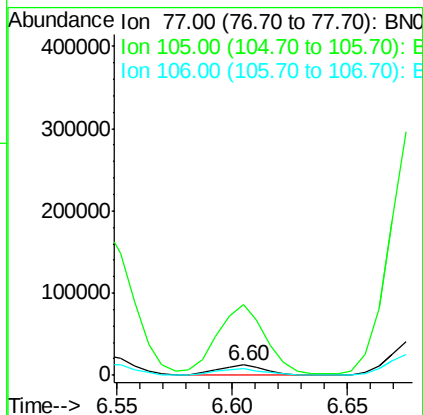
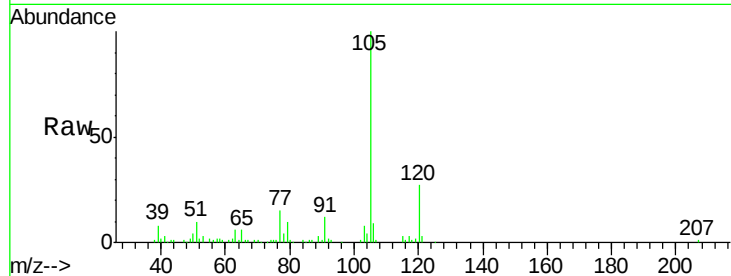
Tgt Ion: 77 Resp: 18277

Ion Ratio Lower Upper

77 100

105 688.0 74.5 111.7#

106 62.3 70.8 106.2#



#17

Hexachloroethane

Concen: 14.05 ng/ul

RT: 8.46 min Scan# 930

Delta R.T. -0.03 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

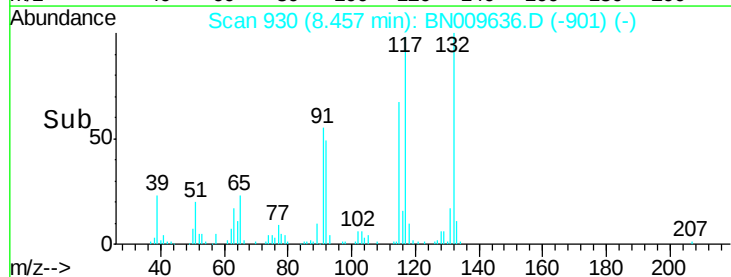
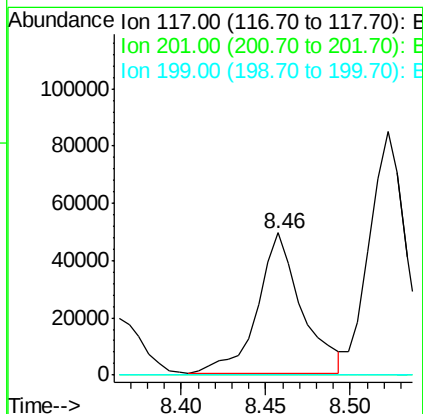
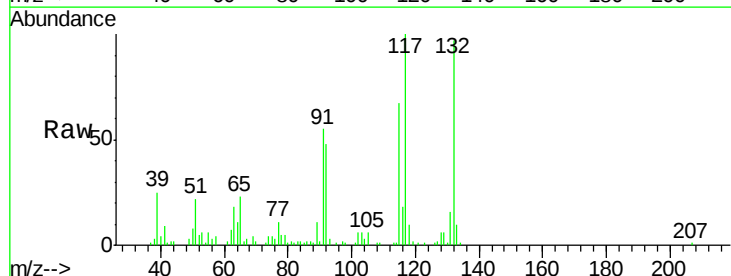
Tgt Ion: 117 Resp: 89397

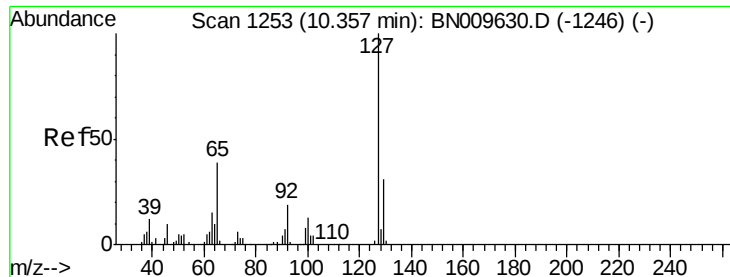
Ion Ratio Lower Upper

117 100

201 0.0 78.8 118.2#

199 0.0 49.0 73.4#

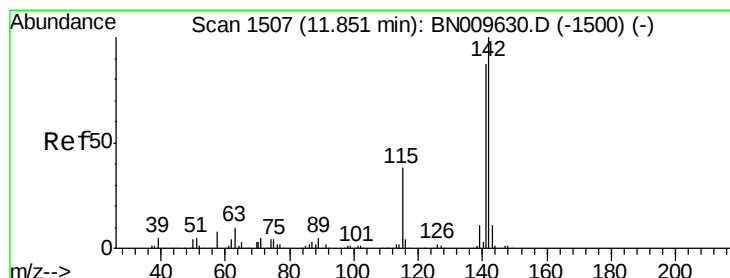
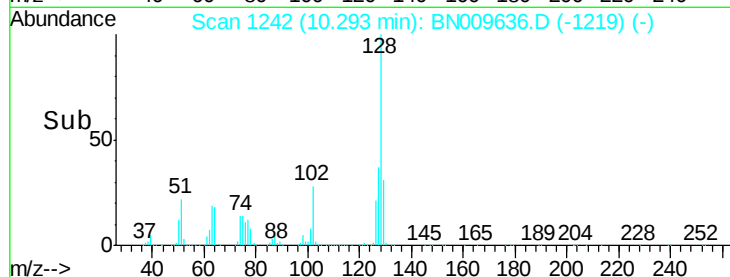
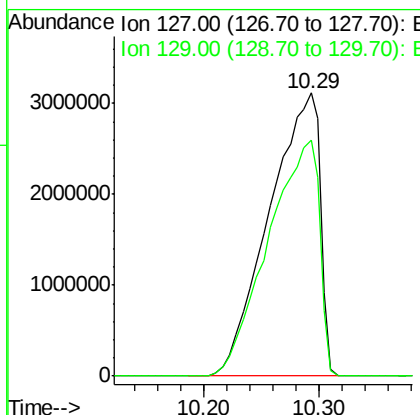
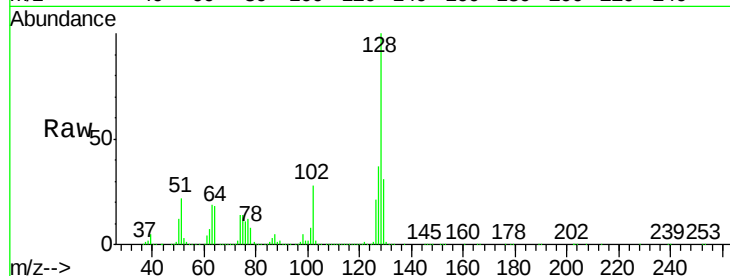




#30
 4-Chloroaniline
 Concen: 645.58 ng/ul
 RT: 10.29 min Scan# 1242
 Delta R.T. -0.06 min
 Lab File: BN009636.D
 Acq: 07 Feb 2020 07:47

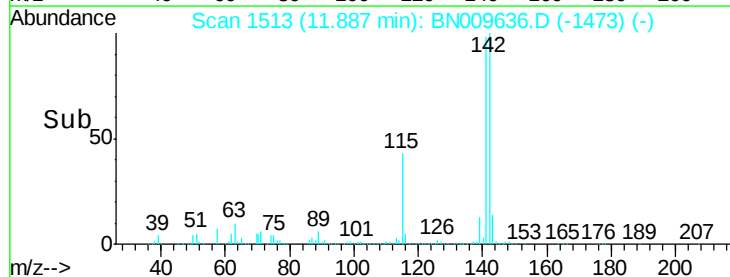
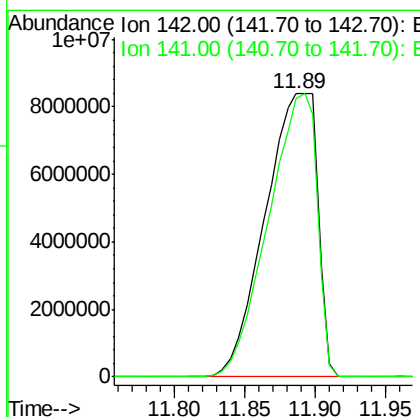
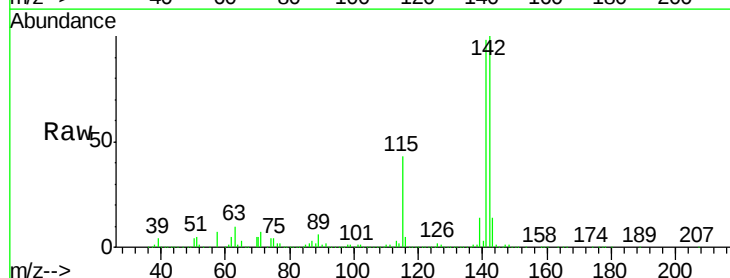
Instrument :
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 GAT70

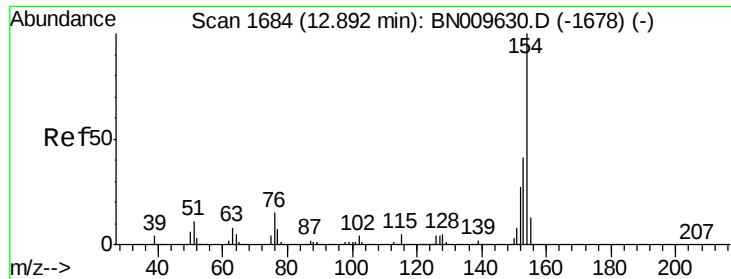
Tgt Ion:127 Resp: 9526514
 Ion Ratio Lower Upper
 127 100
 129 83.3 25.2 37.8#



#34
 2-Methylnaphthalene
 Concen: 669.85 ng/ul
 RT: 11.89 min Scan# 1513
 Delta R.T. 0.04 min
 Lab File: BN009636.D
 Acq: 07 Feb 2020 07:47

Tgt Ion:142 Resp:21730369
 Ion Ratio Lower Upper
 142 100
 141 98.3 71.5 107.3

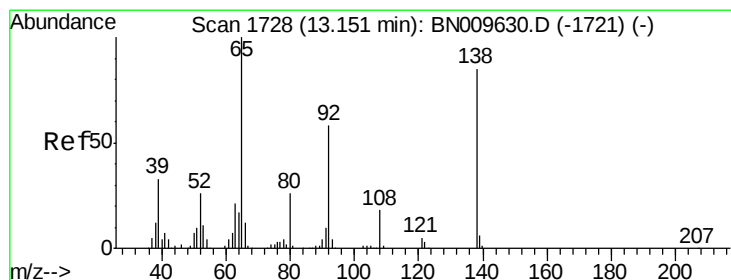
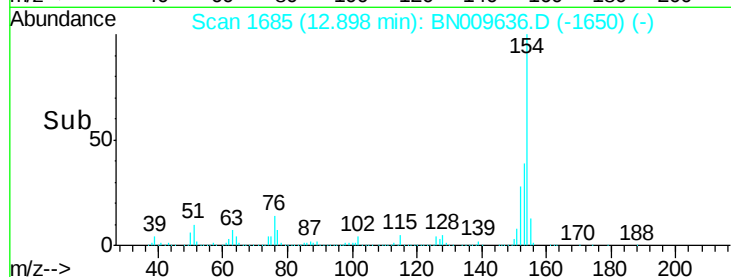
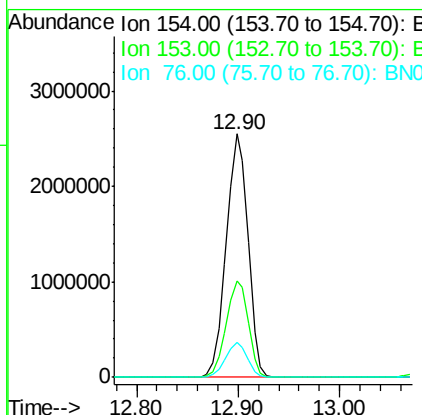
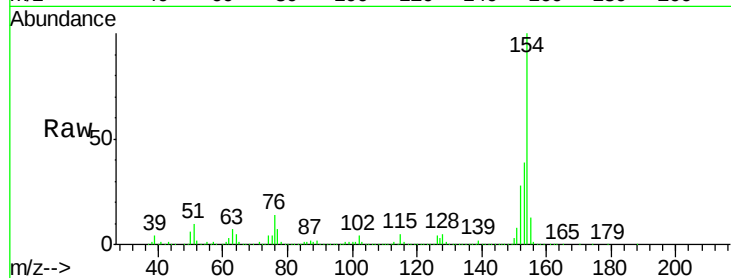




#40
 1,1'-Biphenyl
 Concen: 90.65 ng/ul
 RT: 12.90 min Scan# 1685
 Delta R.T. 0.01 min
 Lab File: BN009636.D
 Acq: 07 Feb 2020 07:47

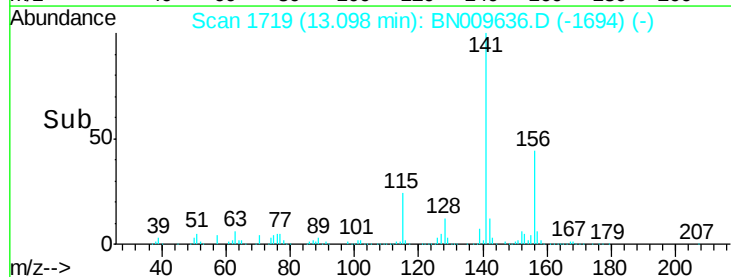
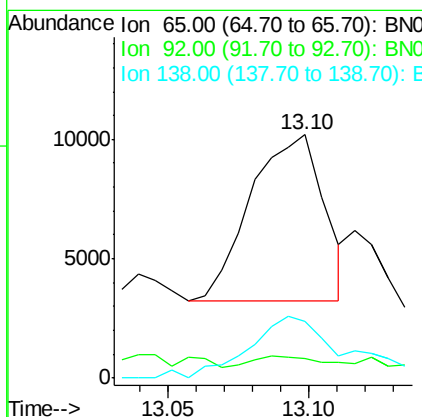
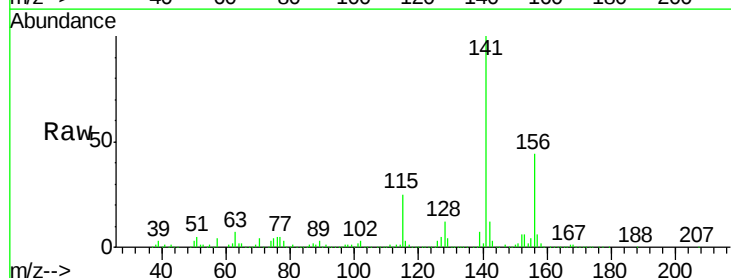
Instrument :
 BNA_N
 ClientSampleId :
 GAT70

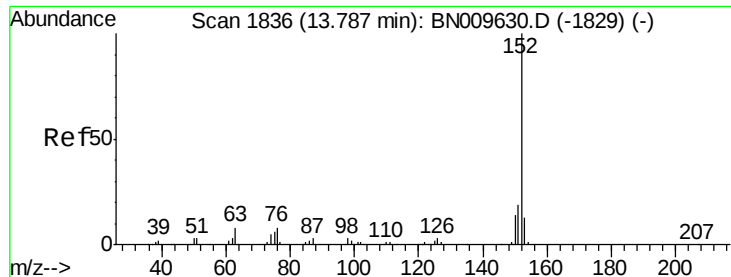
Tgt Ion:154 Resp: 3783705
 Ion Ratio Lower Upper
 154 100
 153 39.5 31.2 46.8
 76 14.2 11.4 17.2



#42
 2-Nitroaniline
 Concen: 1.06 ng/ul
 RT: 13.10 min Scan# 1719
 Delta R.T. -0.05 min
 Lab File: BN009636.D
 Acq: 07 Feb 2020 07:47

Tgt Ion: 65 Resp: 12499
 Ion Ratio Lower Upper
 65 100
 92 7.8 42.0 63.0#
 138 23.0 60.1 90.1#





#47

Acenaphthylene

Concen: 305.67 ng/ul

RT: 13.80 min Scan# 1839

Delta R.T. 0.02 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampled :

GAT70

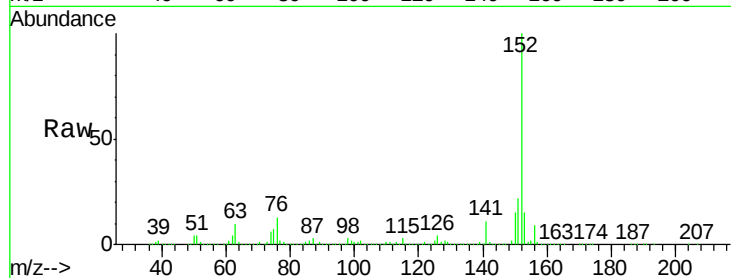
Tgt Ion:152 Resp:15818407

Ion Ratio Lower Upper

152 100

151 21.6 16.2 24.2

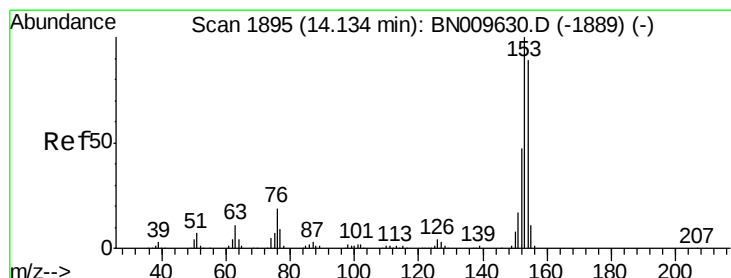
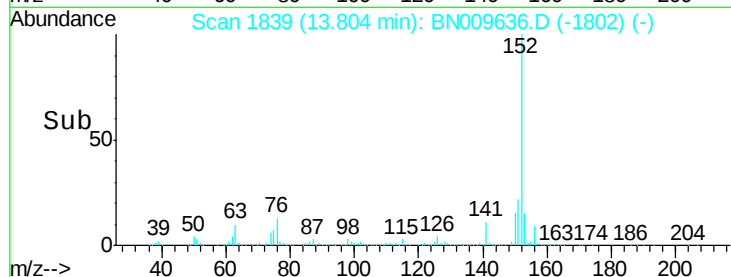
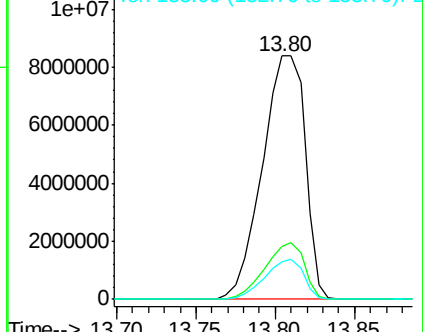
153 15.3 10.6 15.8



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



#49

Acenaphthene

Concen: 39.74 ng/ul

RT: 14.14 min Scan# 1896

Delta R.T. 0.01 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

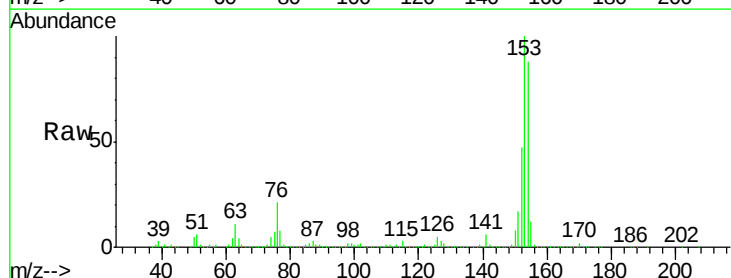
Tgt Ion:153 Resp: 1397977

Ion Ratio Lower Upper

153 100

152 46.8 37.3 55.9

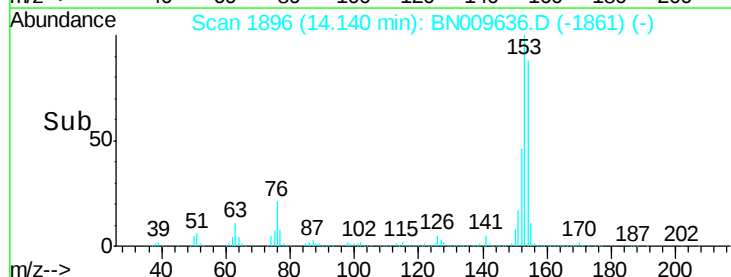
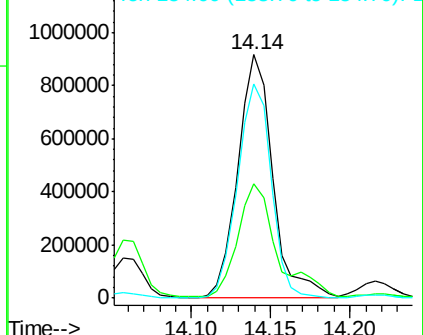
154 87.9 70.2 105.2

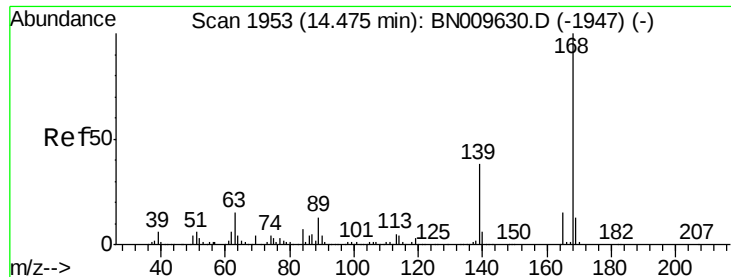


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzofuran

Concen: 29.14 ng/ul

RT: 14.48 min Scan# 1954

Delta R.T. 0.01 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampled :

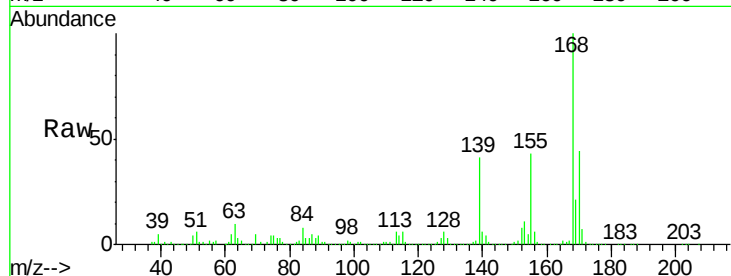
GAT70

Tgt Ion:168 Resp: 1427781

Ion Ratio Lower Upper

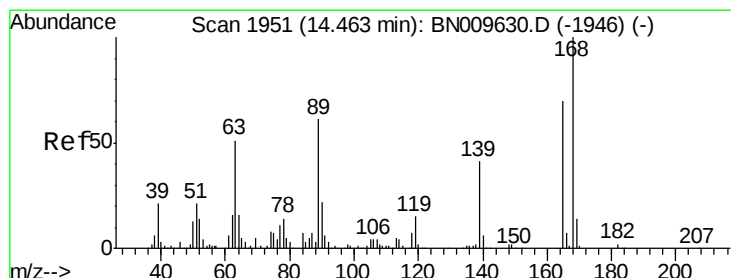
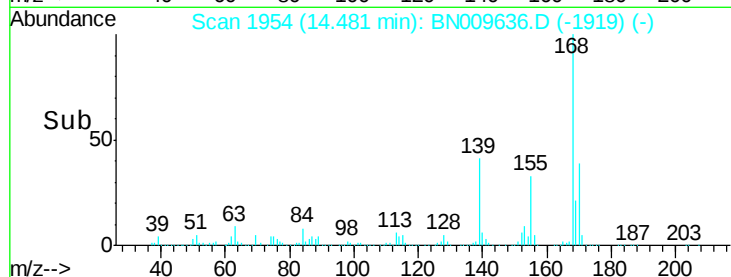
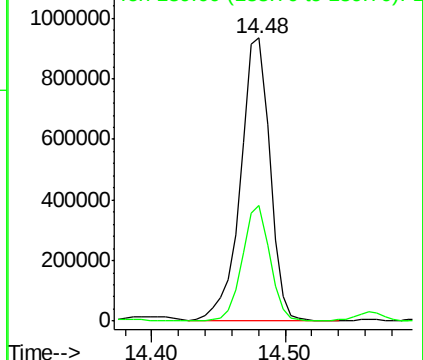
168 100

139 41.1 29.5 44.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#54

2,4-Dinitrotoluene

Concen: 3.41 ng/ul

RT: 14.49 min Scan# 1955

Delta R.T. 0.02 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

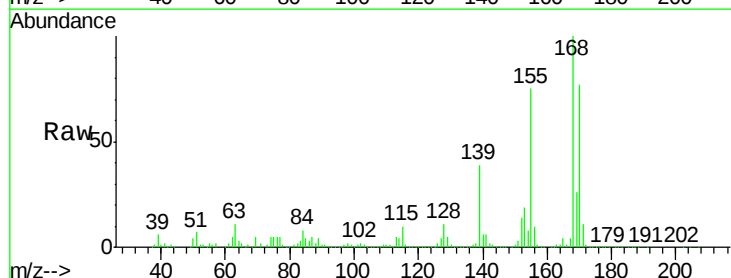
Tgt Ion:165 Resp: 40571

Ion Ratio Lower Upper

165 100

63 253.5 55.0 82.4#

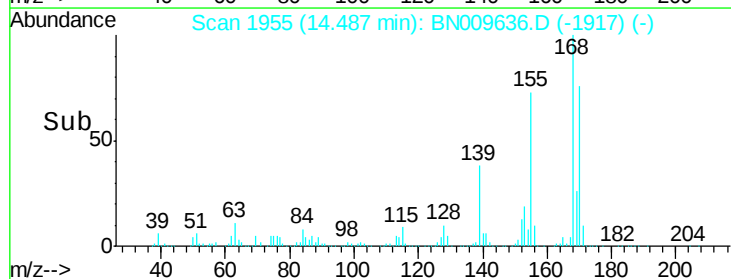
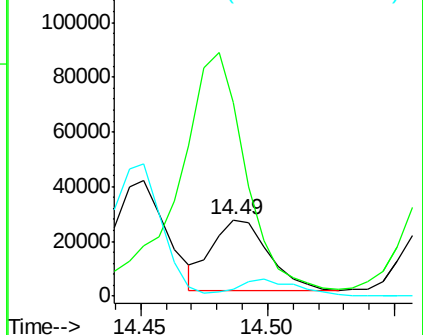
182 8.3 2.4 3.6#

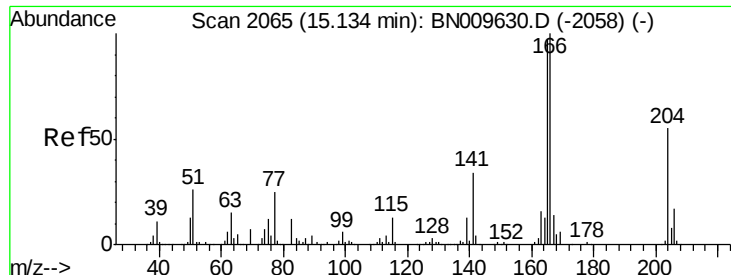


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BN0

Ion 182.00 (181.70 to 182.70): E

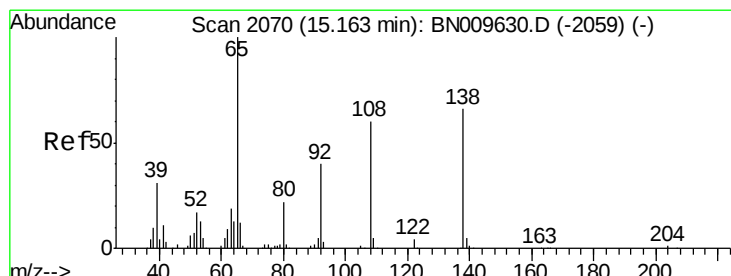
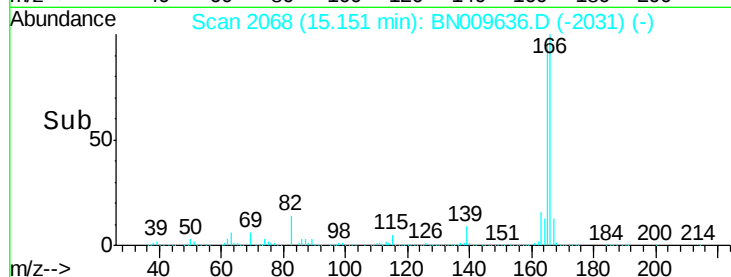
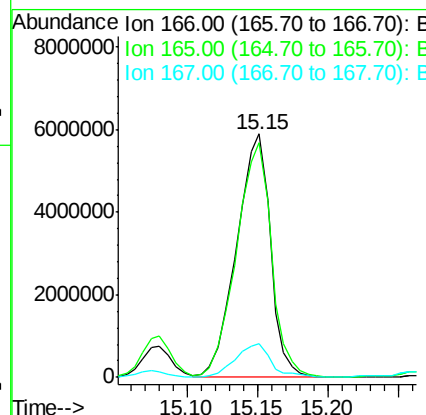
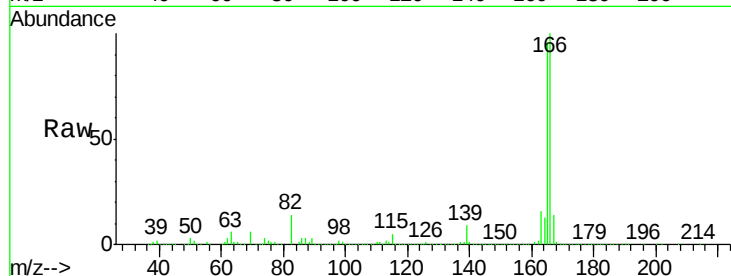




#58
 Fluorene
 Concen: 240.57 ng/ul
 RT: 15.15 min Scan# 2068
 Delta R.T. 0.02 min
 Lab File: BN009636.D
 Acq: 07 Feb 2020 07:47

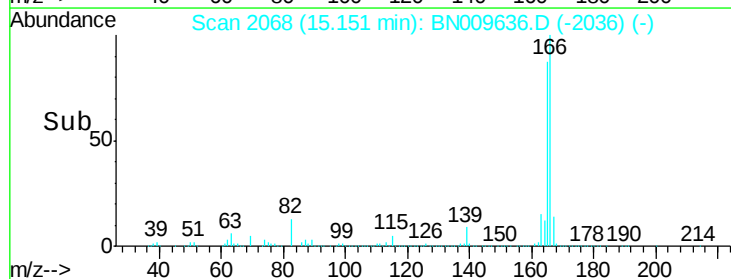
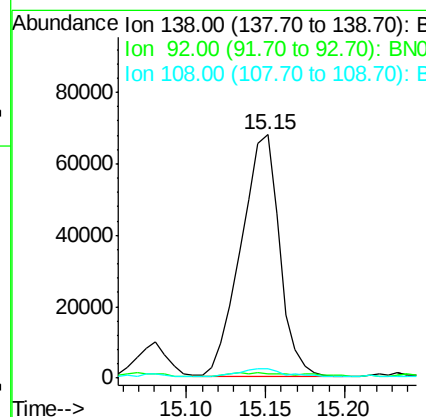
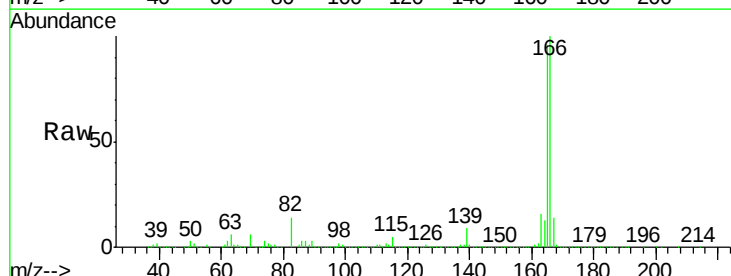
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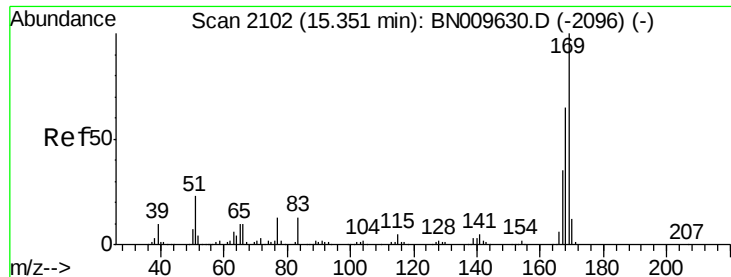
Tgt Ion:166 Resp: 9849139
 Ion Ratio Lower Upper
 166 100
 165 96.3 76.7 115.1
 167 13.8 11.1 16.7



#60
 4-Nitroaniline
 Concen: 12.21 ng/ul
 RT: 15.15 min Scan# 2068
 Delta R.T. -0.01 min
 Lab File: BN009636.D
 Acq: 07 Feb 2020 07:47

Tgt Ion:138 Resp: 114495
 Ion Ratio Lower Upper
 138 100
 92 1.9 46.1 69.1#
 108 3.8 75.1 112.7#





#64

N-Nitrosodiphenylamine

Concen: 2.53 ng/ul

RT: 15.36 min Scan# 2103

Delta R.T. 0.01 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampleId :

GAT70

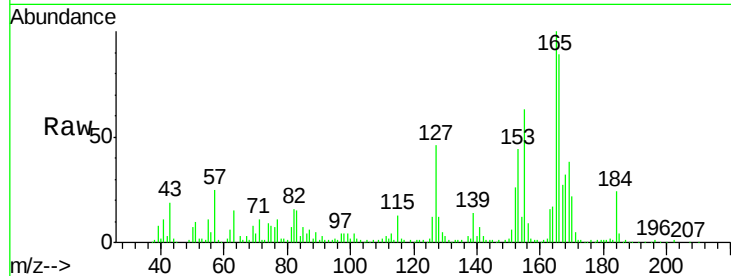
Tgt Ion:169 Resp: 76541

Ion Ratio Lower Upper

169 100

168 83.9 53.8 80.8#

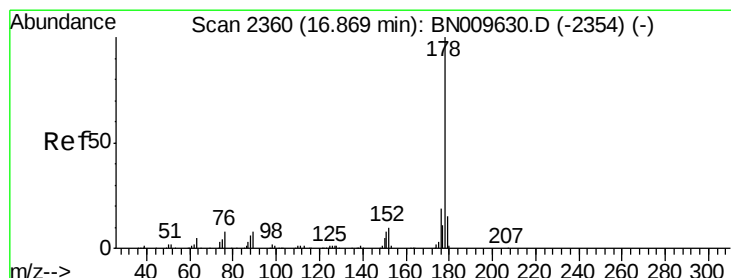
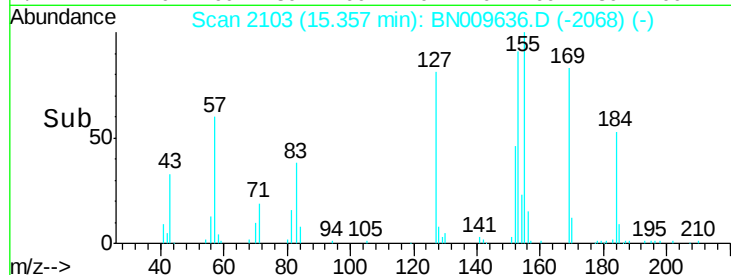
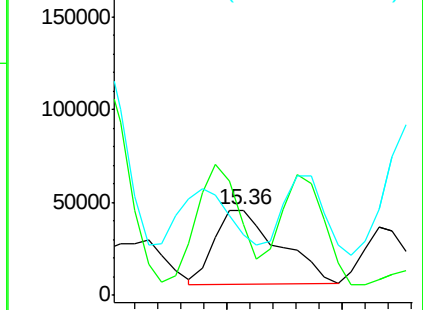
167 71.5 27.5 41.3#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 148.18 ng/ul

RT: 16.98 min Scan# 2379

Delta R.T. 0.11 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

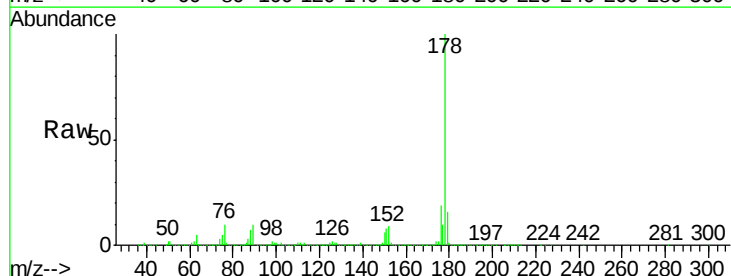
Tgt Ion:178 Resp: 8543607

Ion Ratio Lower Upper

178 100

179 16.0 12.2 18.2

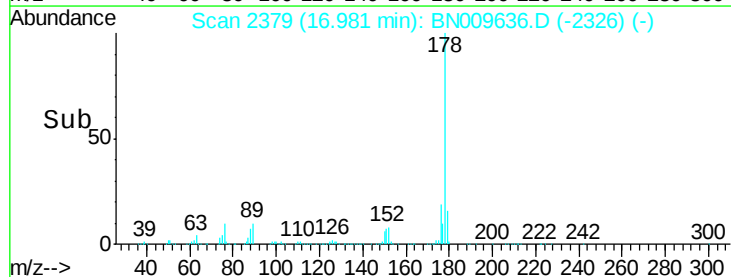
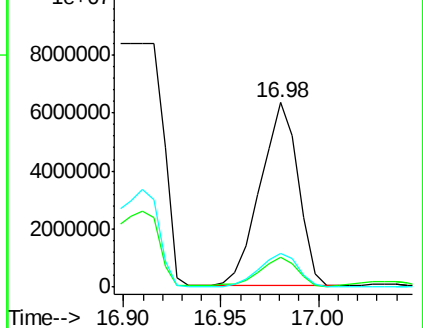
176 18.5 14.8 22.2

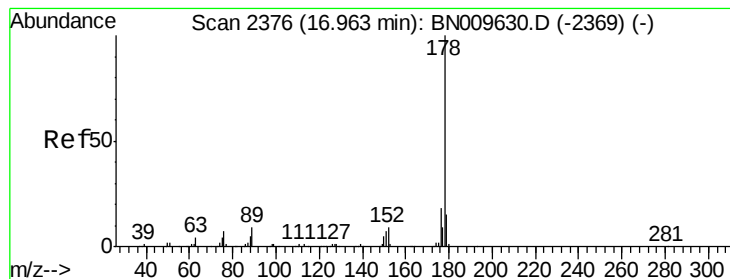


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 146.04 ng/u1

RT: 16.98 min Scan# 2379

Delta R.T. 0.02 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampleId :

GAT70

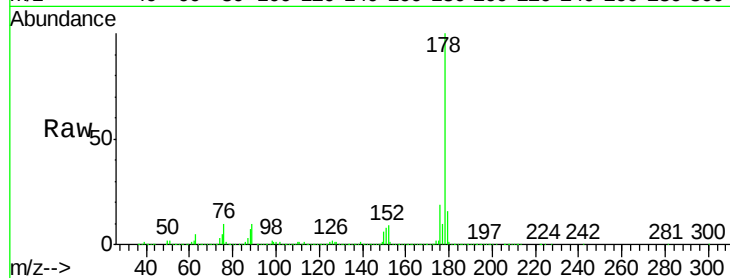
Tgt Ion:178 Resp: 8543607

Ion Ratio Lower Upper

178 100

179 16.0 12.1 18.1

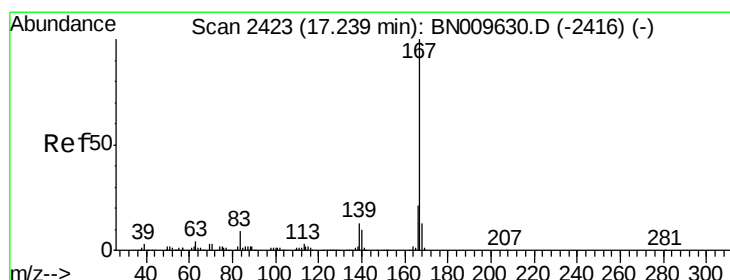
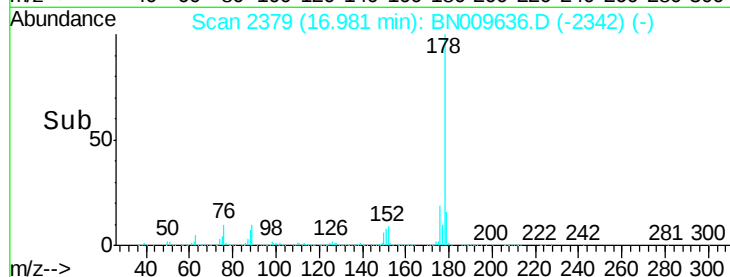
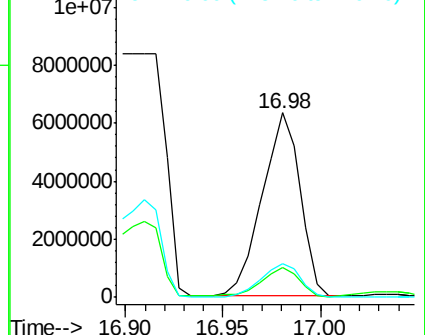
176 18.5 14.6 21.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#74

Carbazole

Concen: 7.05 ng/u1

RT: 17.24 min Scan# 2423

Delta R.T. 0.00 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

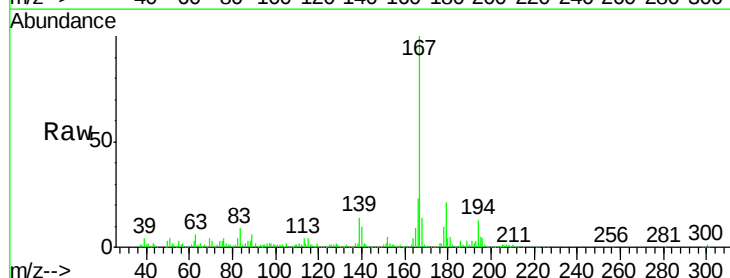
Tgt Ion:167 Resp: 359150

Ion Ratio Lower Upper

167 100

166 22.8 16.2 24.4

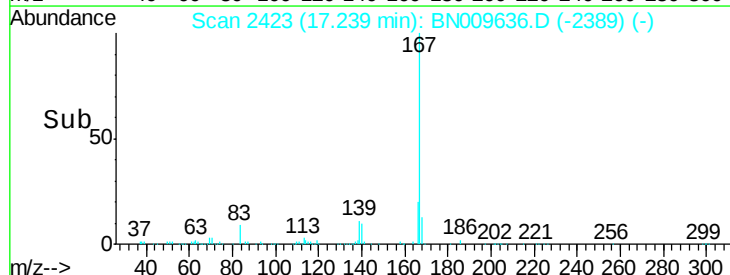
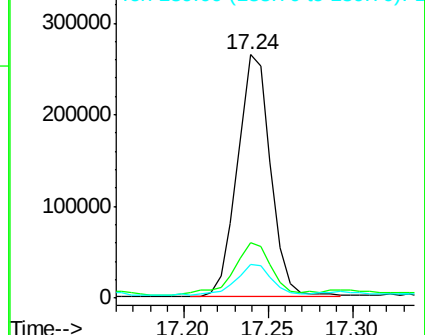
139 13.9 10.4 15.6

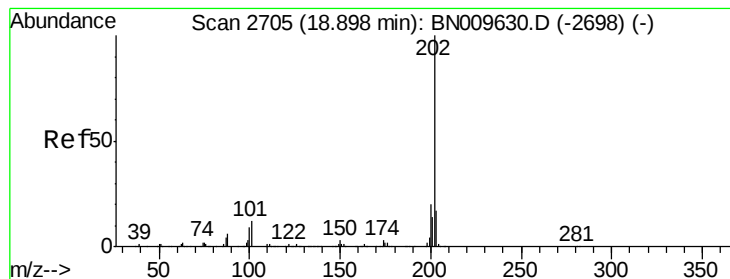


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#76

Fluoranthene

Concen: 72.75 ng/ul

RT: 19.06 min Scan# 2733

Delta R.T. 0.16 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampleId :

GAT70

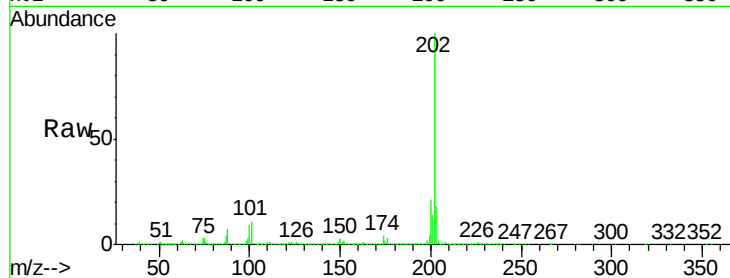
Tgt Ion:202 Resp: 4787104

Ion Ratio Lower Upper

202 100

101 11.4 9.2 13.8

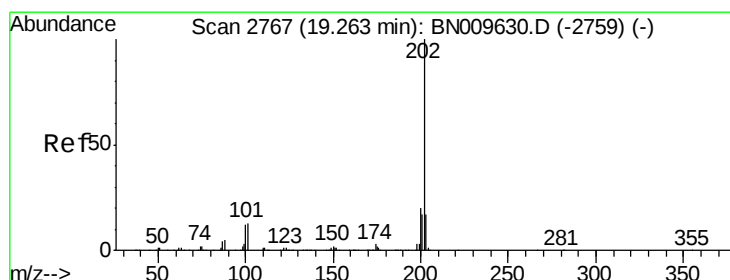
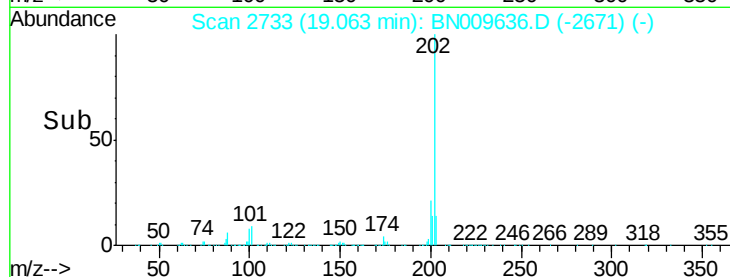
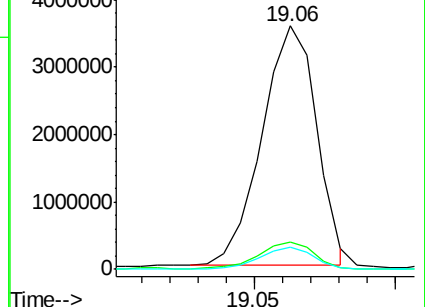
100 9.1 6.9 10.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 10.16 ng/ul

RT: 19.18 min Scan# 2753

Delta R.T. -0.08 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

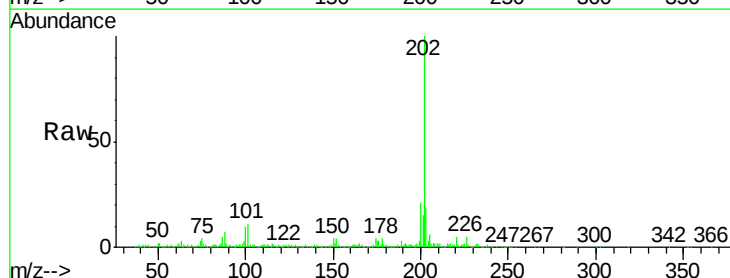
Tgt Ion:202 Resp: 653043

Ion Ratio Lower Upper

202 100

101 11.3 10.3 15.5

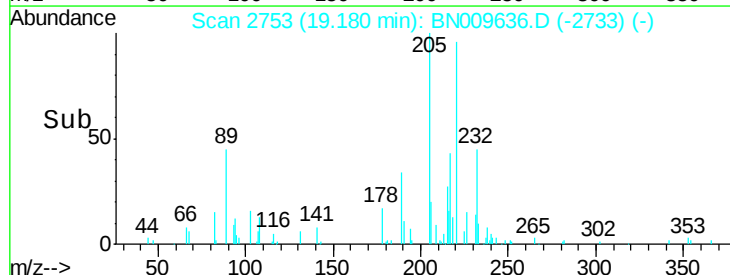
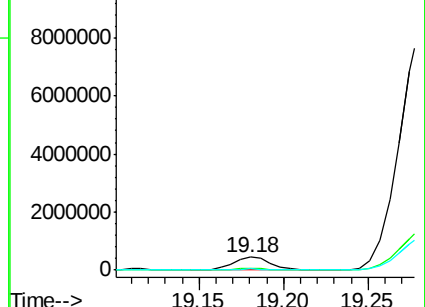
100 9.5 8.4 12.6

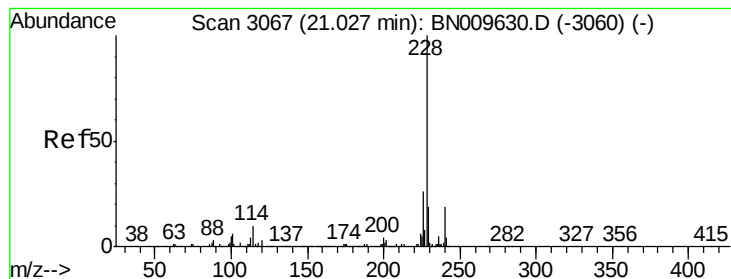


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#82

Benzo(a)anthracene

Concen: 133.05 ng/ul

RT: 21.05 min Scan# 3070

Delta R.T. 0.02 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampleId :

GAT70

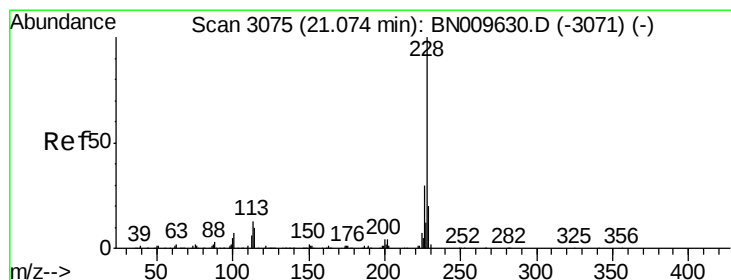
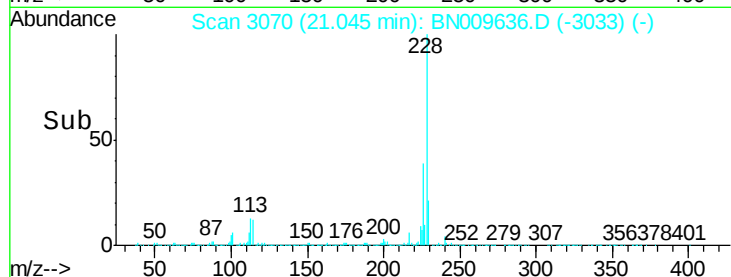
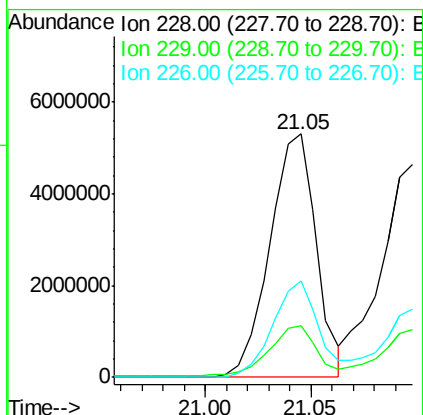
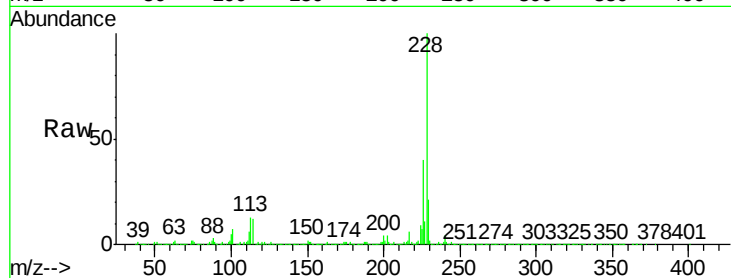
Tgt Ion:228 Resp: 8089311

Ion Ratio Lower Upper

228 100

229 21.3 15.0 22.4

226 39.6 20.9 31.3#



#84

Chrysene

Concen: 113.29 ng/ul

RT: 21.10 min Scan# 3079

Delta R.T. 0.02 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

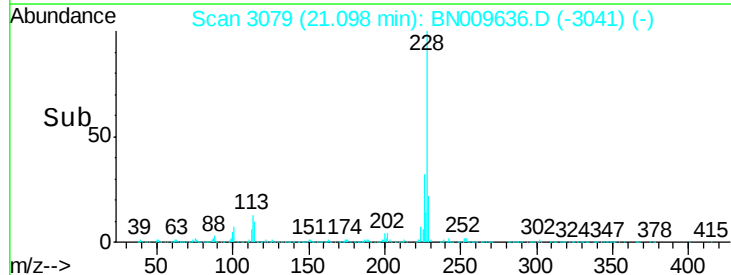
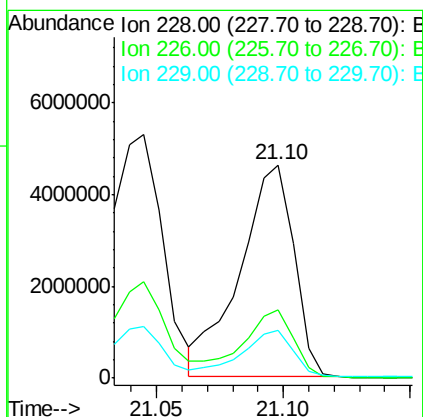
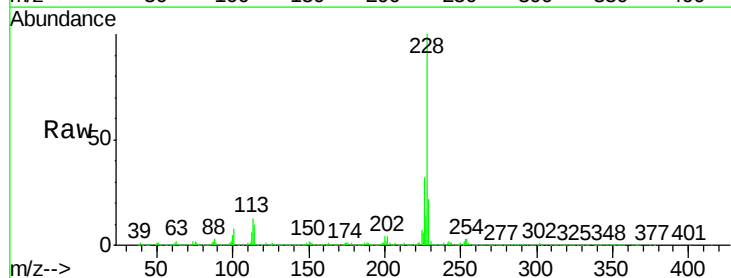
Tgt Ion:228 Resp: 6857076

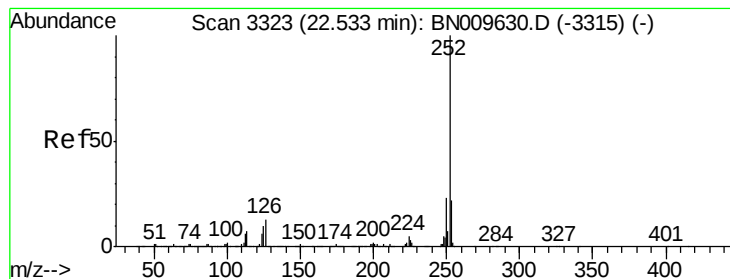
Ion Ratio Lower Upper

228 100

226 31.9 23.5 35.3

229 22.2 15.8 23.8





#87

Benzo(b)fluoranthene

Concen: 95.82 ng/u1

RT: 22.56 min Scan# 3328

Delta R.T. 0.03 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampleId :

GAT70

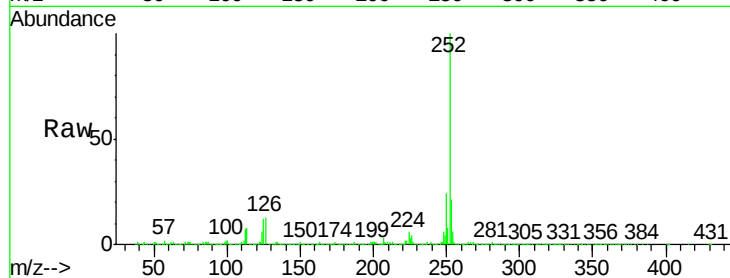
Tgt Ion:252 Resp: 5920321

Ion Ratio Lower Upper

252 100

253 20.9 17.0 25.6

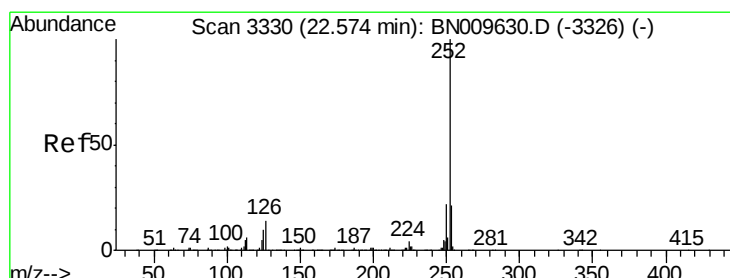
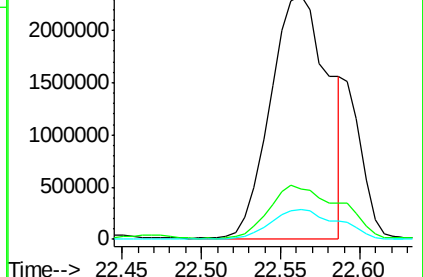
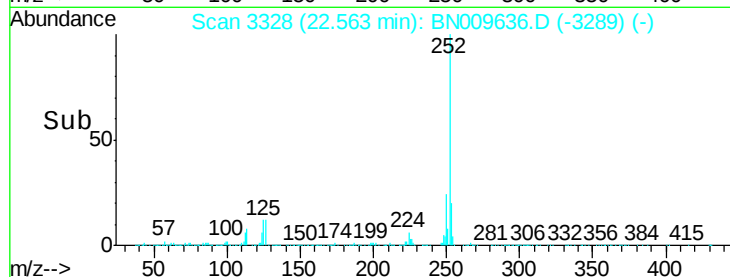
125 12.2 8.2 12.2



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



#88

Benzo(k)fluoranthene

Concen: 97.29 ng/u1

RT: 22.56 min Scan# 3328

Delta R.T. -0.01 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

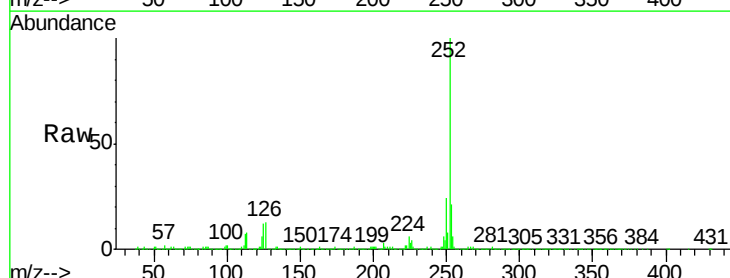
Tgt Ion:252 Resp: 5920321

Ion Ratio Lower Upper

252 100

253 20.9 17.0 25.4

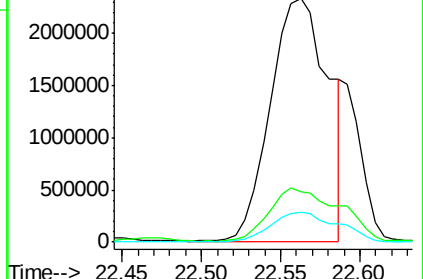
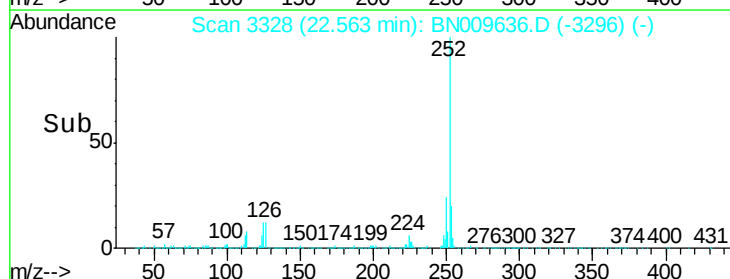
125 12.2 8.0 12.0#

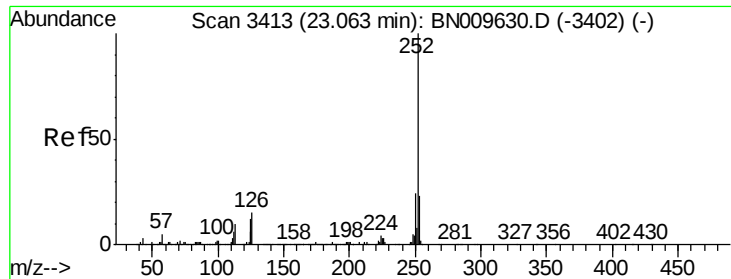


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 105.60 ng/ul

RT: 23.10 min Scan# 3419

Delta R.T. 0.04 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampleId :

GAT70

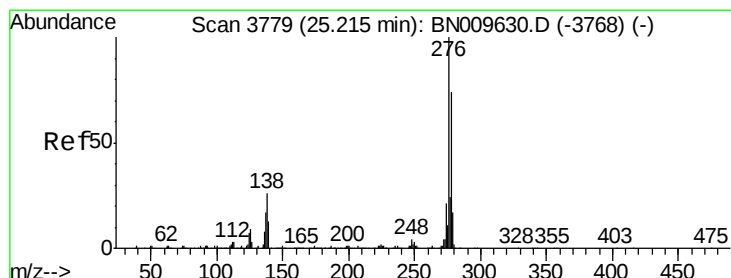
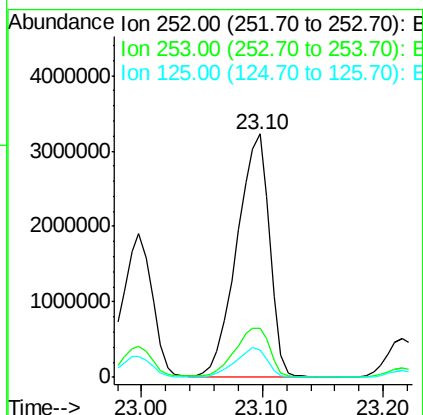
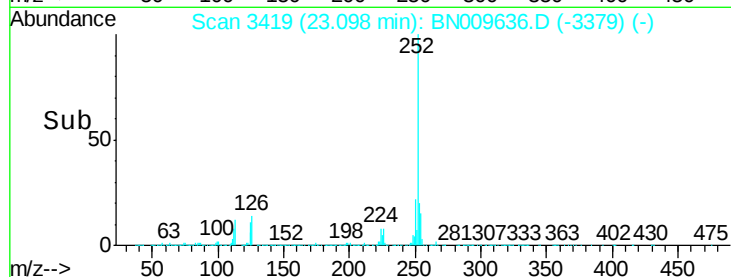
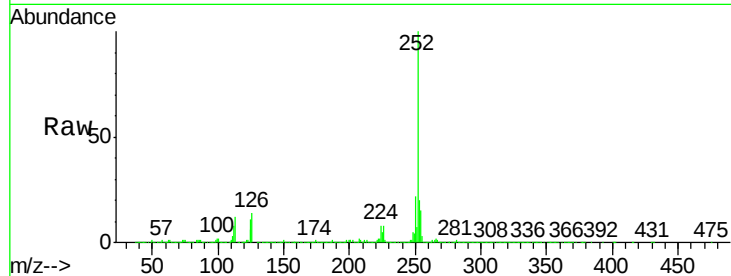
Tgt Ion:252 Resp: 6045266

Ion Ratio Lower Upper

252 100

253 20.4 15.8 23.8

125 11.3 8.7 13.1



#91

Indeno(1,2,3-cd)pyrene

Concen: 36.44 ng/ul

RT: 25.25 min Scan# 3785

Delta R.T. 0.04 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

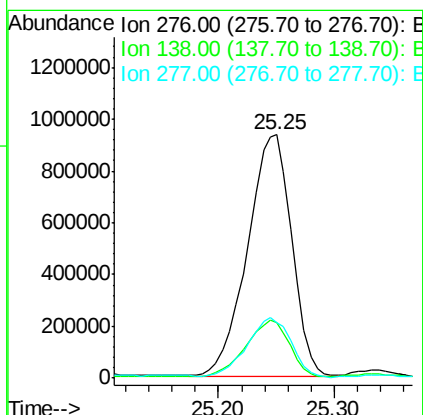
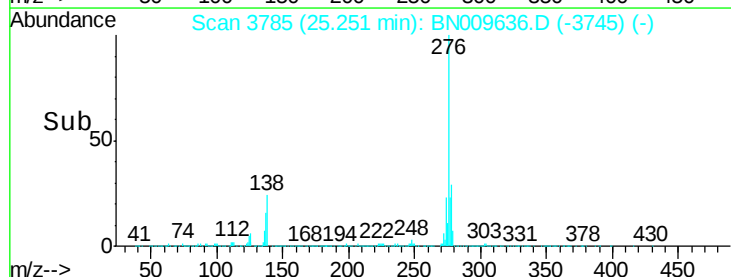
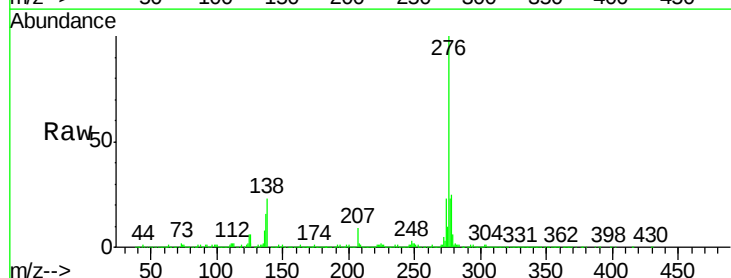
Tgt Ion:276 Resp: 2480340

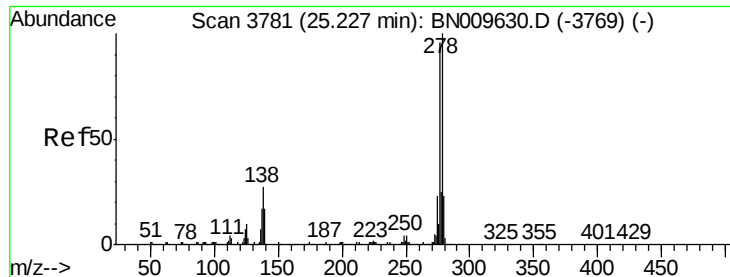
Ion Ratio Lower Upper

276 100

138 22.7 20.3 30.5

277 22.9 21.2 31.8





#92

Dibenzo(a,h)anthracene

Concen: 13.37 ng/ul

RT: 25.24 min Scan# 3784

Delta R.T. 0.02 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

Instrument :

BNA_N

ClientSampleId :

GAT70

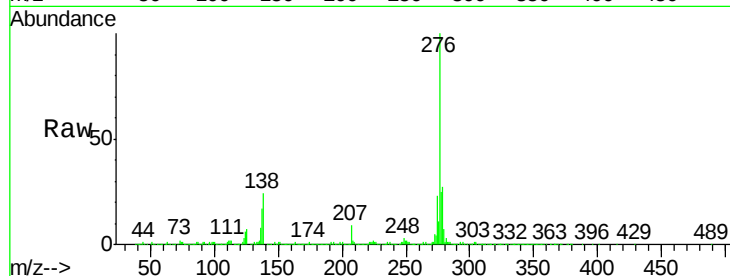
Tgt Ion:278 Resp: 766117

Ion Ratio Lower Upper

278 100

139 0.0 12.7 19.1#

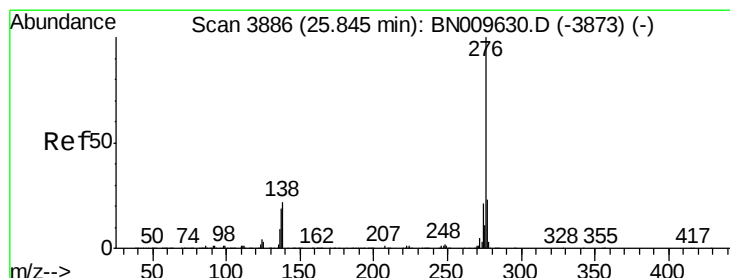
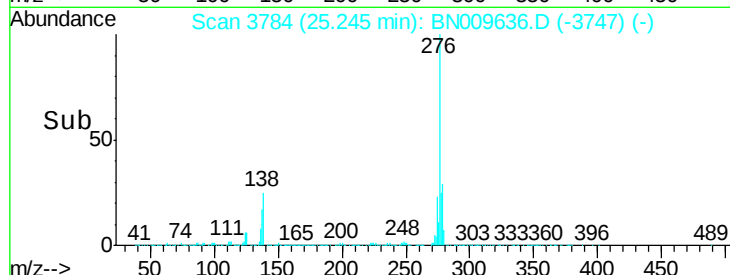
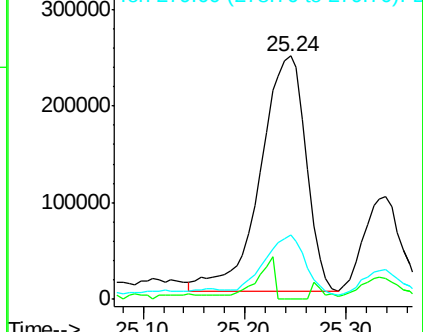
279 26.3 19.8 29.8



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



#93

Benzo(g,h,i)perylene

Concen: 45.54 ng/ul

RT: 25.88 min Scan# 3892

Delta R.T. 0.04 min

Lab File: BN009636.D

Acq: 07 Feb 2020 07:47

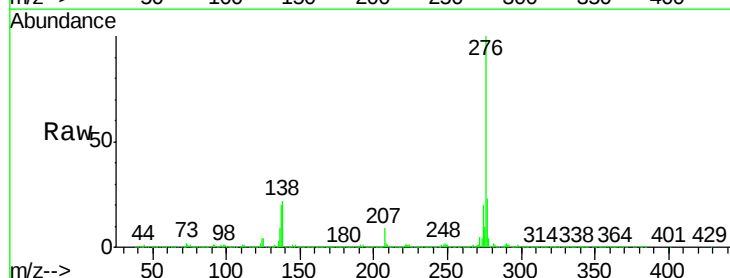
Tgt Ion:276 Resp: 2597928

Ion Ratio Lower Upper

276 100

138 21.6 16.0 24.0

277 22.9 17.0 25.6



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

