

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN020620\
 Data File : BN009647.D
 Acq On : 07 Feb 2020 14:24
 Operator : CG/JU
 Sample : L1324-09 10X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAT66

Quant Time: Feb 07 16:19:35 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN020320MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Feb 07 15:21:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	177695	20.00	ng/ul	0.00
18) Naphthalene-d8	10.19	136	734229	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.07	164	452284	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.83	188	868086	20.00	ng/ul	0.00
77) Chrysene-d12	21.05	240	768566	20.00	ng/ul	0.00
85) Perylene-d12	23.17	264	840397	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.09	96	699	0.16	ng/uL	0.02
5) Phenol-d5	6.64	99	32467	2.09	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.80	67	26645	2.56	ng/ul	0.01
9) 2-Chlorophenol-d4	6.98	132	24851	2.18	ng/ul	0.00
13) 4-Methylphenol-d8	8.15	113	26153	2.12	ng/ul	0.00
19) Nitrobenzene-d5	8.58	128	15566	2.85	ng/ul	0.00
22) 2-Nitrophenol-d4	9.29	143	12328	2.02	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.83	165	25282	2.21	ng/ul	0.00
29) 4-Chloroaniline-d4	10.37	131	22207	1.81	ng/ul	0.04
43) Dimethylphthalate-d6	13.50	166	81121	2.46	ng/ul	0.00
46) Acenaphthylene-d8	13.76	160	91412	2.29	ng/ul	0.00
51) 4-Nitrophenol-d4	14.33	143	10225	1.64	ng/ul	0.02
57) Fluorene-d10	15.08	176	67825	2.34	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.22	200	179	0.03	ng/ul	0.00
70) Anthracene-d10	16.83	188	868086	22.01	ng/ul	-0.09
78) Pyrene-d10	19.24	212	103917	2.57	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.04	264	101227	2.45	ng/ul	0.01

Target Compounds

						Qvalue
4) Benzaldehyde	6.60	77	51643	4.86	ng/ul#	1
14) Acetophenone	8.23	105	44101	2.23	ng/ul#	35
17) Hexachloroethane	8.46	117	51750	9.65	ng/ul#	8
21) Isophorone	9.12	82	29220	1.04	ng/ul#	1
28) Naphthalene	10.25	128	18754742	471.03	ng/ul	96
32) Caprolactam	11.12	113	11147	2.87	ng/ul#	1
34) 2-Methylnaphthalene	11.88	142	13519392	485.19	ng/ul	99
40) 1,1'-Biphenyl	12.90	154	1494966	42.45	ng/ul	99
47) Acenaphthylene	13.80	152	8144192	186.55	ng/ul	99
49) Acenaphthene	14.14	153	630393	21.24	ng/ul	99
53) Dibenzofuran	14.47	168	667122	16.14	ng/ul	91
54) 2,4-Dinitrotoluene	14.45	165	39246	3.91	ng/ul#	60
58) Fluorene	15.14	166	4029979	116.68	ng/ul	98
64) N-Nitrosodiphenylamine	15.36	169	59863	2.31	ng/ul#	72
69) Phenanthrene	16.89	178	15116840	305.35	ng/ul	95
71) Anthracene	16.97	178	4098693	81.60	ng/ul	99
74) Carbazole	17.24	167	99305	2.27	ng/ul#	79
76) Fluoranthene	18.91	202	8381001	148.33	ng/ul	95
79) Pyrene	19.18	202	610237	10.88	ng/ul	97
82) Benzo(a)anthracene	21.09	228	4334445	81.68	ng/ul	93
84) Chrysene	21.09	228	4335519	82.07	ng/ul	98
87) Benzo(b)fluoranthene	22.56	252	4902954	93.25	ng/ul	97
88) Benzo(k)fluoranthene	22.56	252	4902954	94.68	ng/ul	96

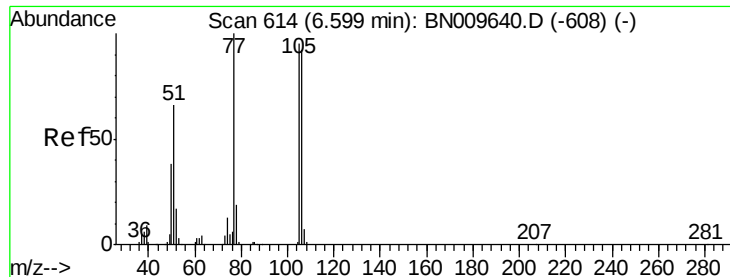
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN020620\
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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Benzo(a)pyrene	23.09	252	4952918	101.67	ng/ul	97
91) Indeno(1,2,3-cd)pyrene	25.25	276	2439063	42.11	ng/ul	96
92) Dibenzo(a,h)anthracene	25.24	278	732768	15.03	ng/ul#	94
93) Benzo(g,h,i)perylene	25.88	276	2484740	51.19	ng/ul	94

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



#4

Benzaldehyde

Concen: 4.86 ng/ul

RT: 6.60 min Scan# 615

Delta R.T. 0.01 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

GAT66

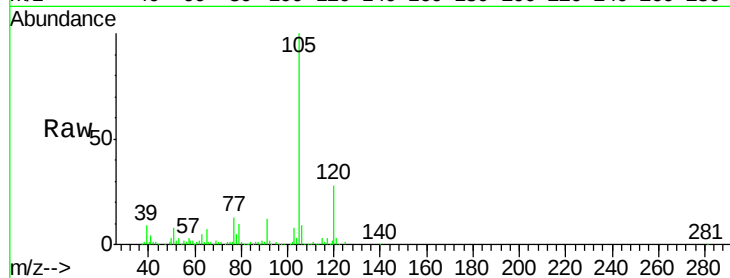
Tgt Ion: 77 Resp: 51643

Ion Ratio Lower Upper

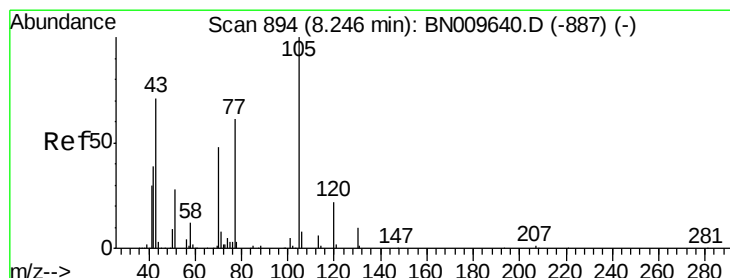
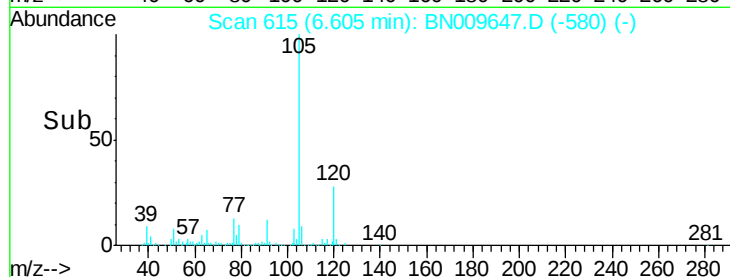
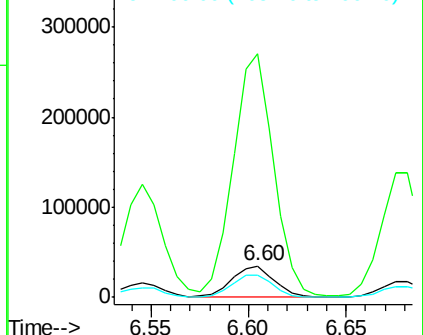
77 100

105 773.3 74.5 111.7#

106 71.2 70.8 106.2



Abundance Ion 77.00 (76.70 to 77.70): BNC
Ion 105.00 (104.70 to 105.70): BNC
Ion 106.00 (105.70 to 106.70): BNC



#14

Acetophenone

Concen: 2.23 ng/ul

RT: 8.23 min Scan# 891

Delta R.T. -0.02 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

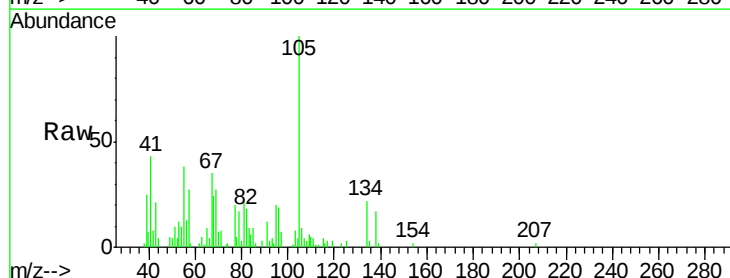
Tgt Ion: 105 Resp: 44101

Ion Ratio Lower Upper

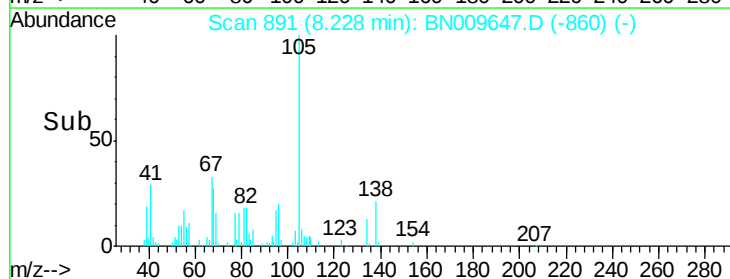
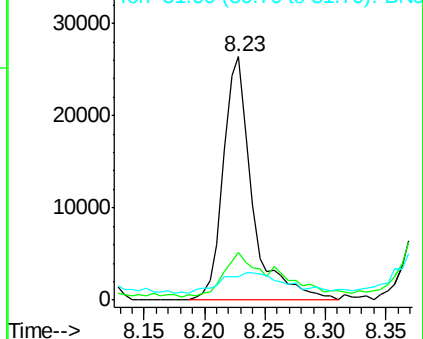
105 100

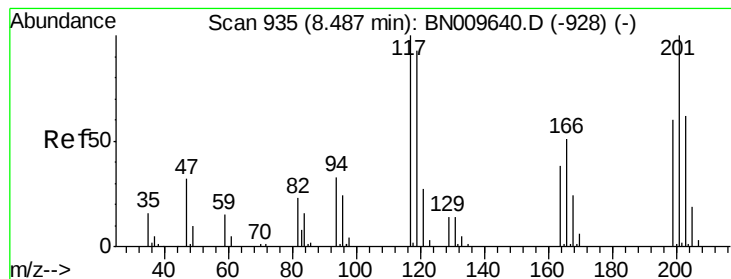
77 19.8 67.7 101.5#

51 9.8 34.3 51.5#



Abundance Ion 105.00 (104.70 to 105.70): BNC
Ion 77.00 (76.70 to 77.70): BNC
Ion 51.00 (50.70 to 51.70): BNC





#17

Hexachloroethane

Concen: 9.65 ng/ul

RT: 8.46 min Scan# 930

Delta R.T. -0.03 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

GAT66

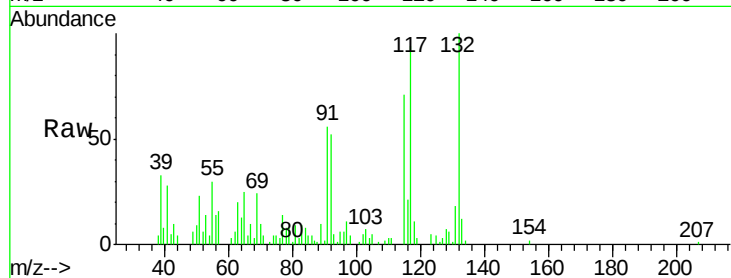
Tgt Ion:117 Resp: 51750

Ion Ratio Lower Upper

117 100

201 0.0 78.8 118.2#

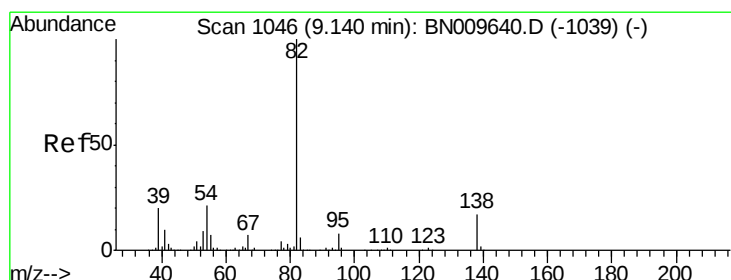
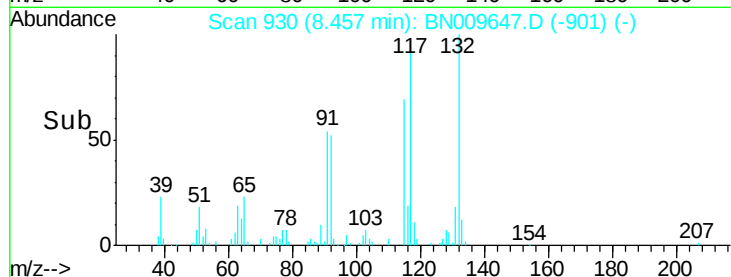
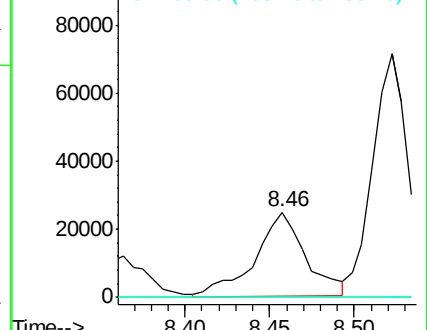
199 0.0 49.0 73.4#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#21

Isophorone

Concen: 1.04 ng/ul

RT: 9.12 min Scan# 1042

Delta R.T. -0.02 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

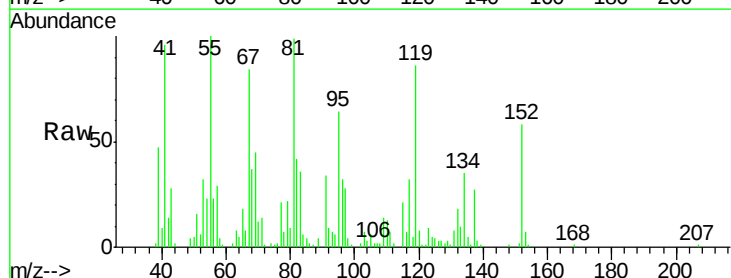
Tgt Ion: 82 Resp: 29220

Ion Ratio Lower Upper

82 100

95 154.0 6.2 9.4#

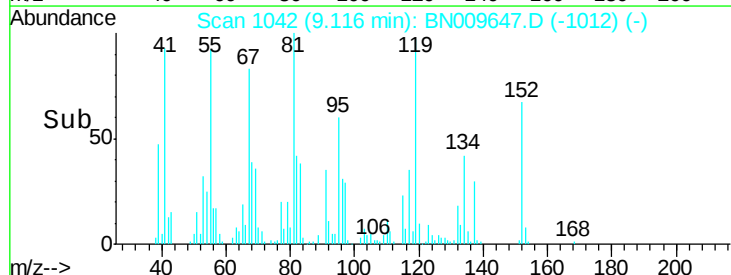
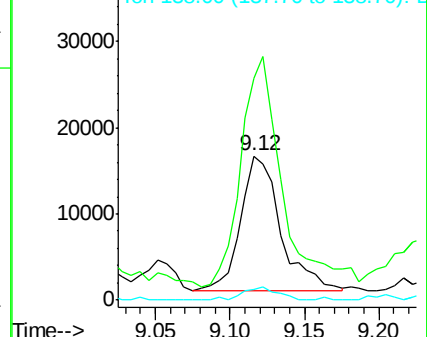
138 7.8 12.8 19.2#

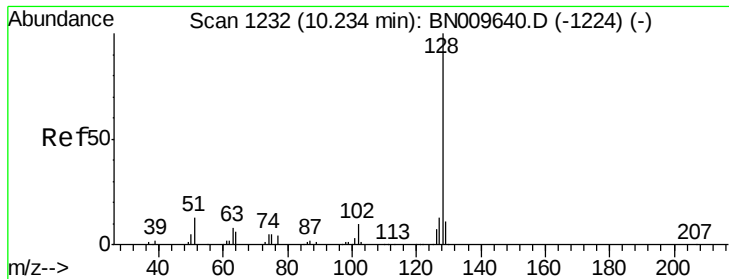


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 95.00 (94.70 to 95.70): BNC

Ion 138.00 (137.70 to 138.70): E

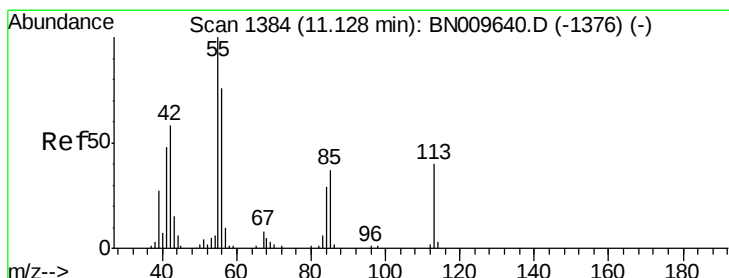
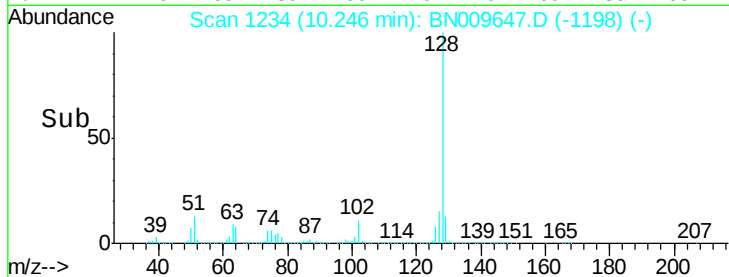
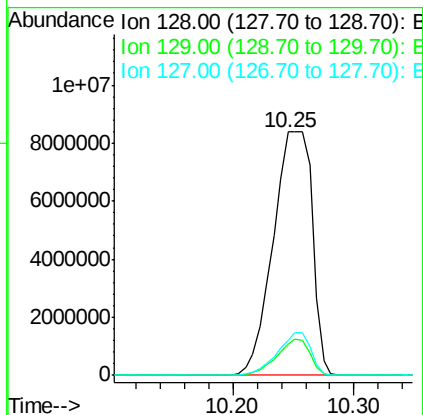
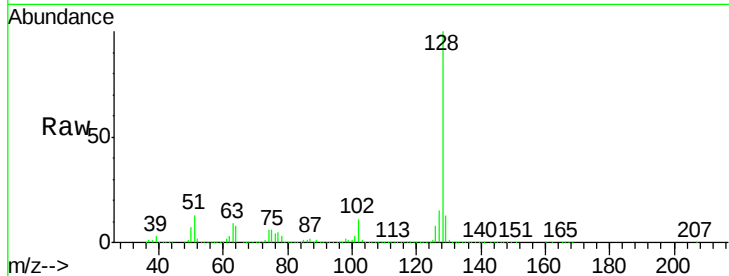




#28
Naphthalene
Concen: 471.03 ng/ul
RT: 10.25 min Scan# 1234
Delta R.T. 0.01 min
Lab File: BN009647.D
Acq: 07 Feb 2020 14:24

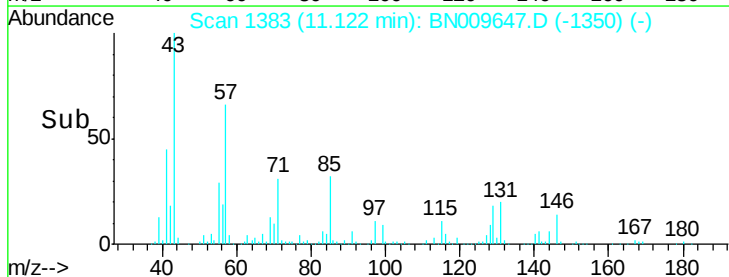
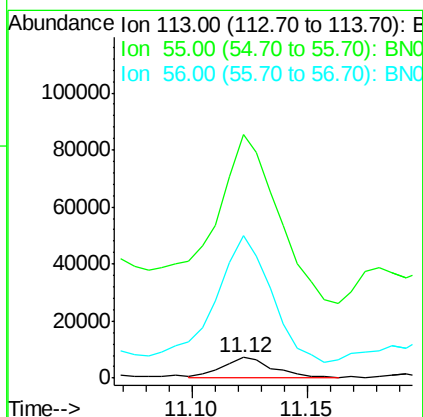
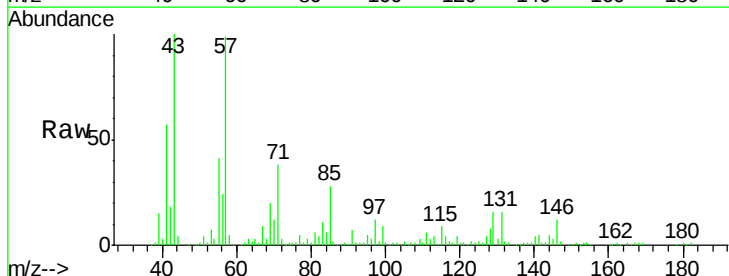
Instrument :
BNA_N
ClientSampleId :
GAT66

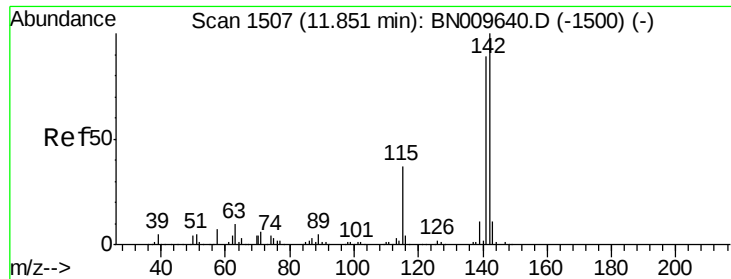
Tgt Ion:128 Resp:18754742
Ion Ratio Lower Upper
128 100
129 12.6 8.7 13.1
127 14.5 10.7 16.1



#32
Caprolactam
Concen: 2.87 ng/ul
RT: 11.12 min Scan# 1383
Delta R.T. -0.01 min
Lab File: BN009647.D
Acq: 07 Feb 2020 14:24

Tgt Ion:113 Resp: 11147
Ion Ratio Lower Upper
113 100
55 1175.2 207.0 310.6#
56 685.6 159.3 238.9#

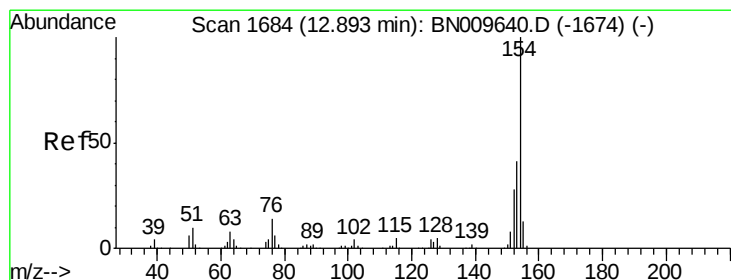
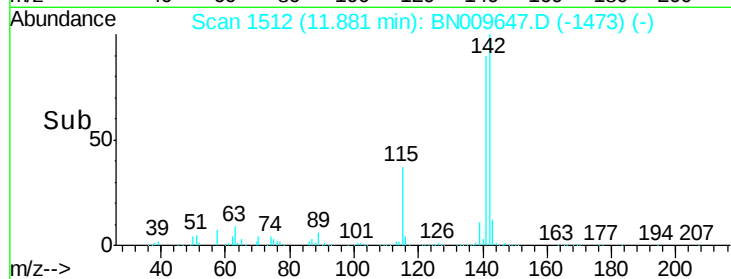
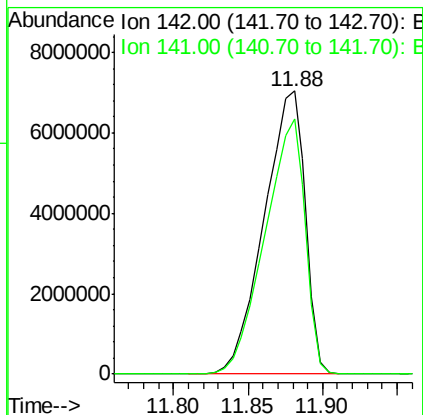
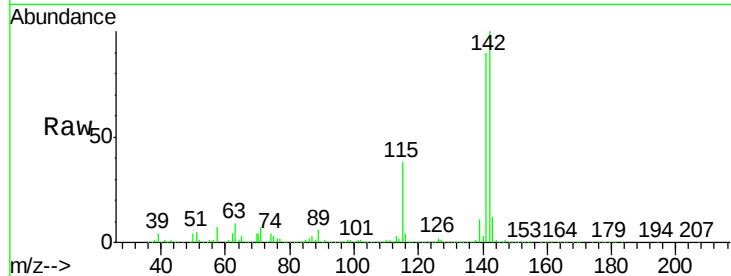




#34
 2-Methylnaphthalene
 Concen: 485.19 ng/ul
 RT: 11.88 min Scan# 1512
 Delta R.T. 0.03 min
 Lab File: BN009647.D
 Acq: 07 Feb 2020 14:24

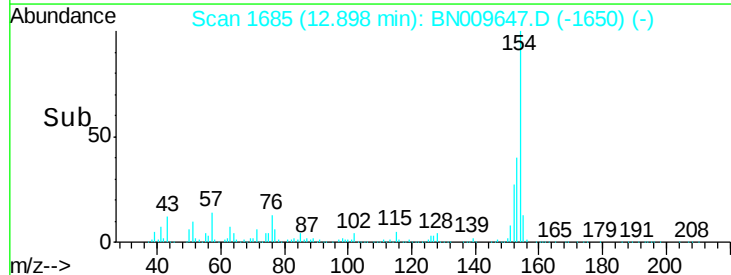
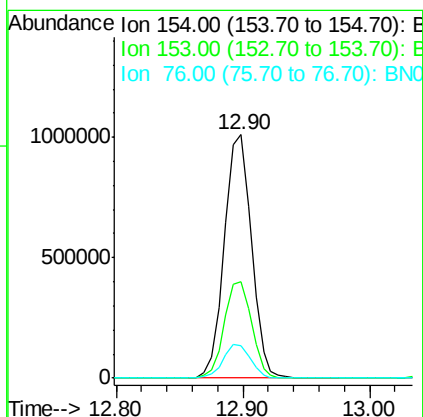
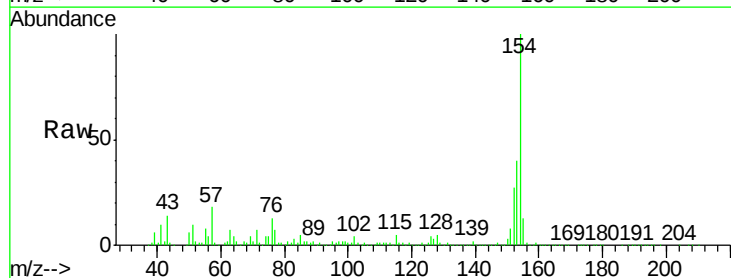
Instrument :
 BNA_N
 ClientSampleId :
 GAT66

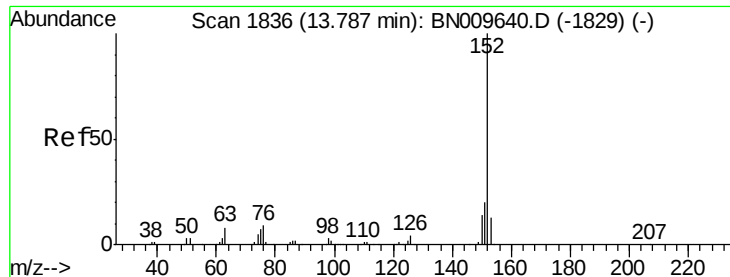
Tgt Ion:142 Resp:13519392
 Ion Ratio Lower Upper
 142 100
 141 90.0 71.5 107.3



#40
 1,1'-Biphenyl
 Concen: 42.45 ng/ul
 RT: 12.90 min Scan# 1685
 Delta R.T. 0.01 min
 Lab File: BN009647.D
 Acq: 07 Feb 2020 14:24

Tgt Ion:154 Resp: 1494966
 Ion Ratio Lower Upper
 154 100
 153 39.7 31.2 46.8
 76 13.4 11.4 17.2





#47

Acenaphthylene

Concen: 186.55 ng/ul

RT: 13.80 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

GAT66

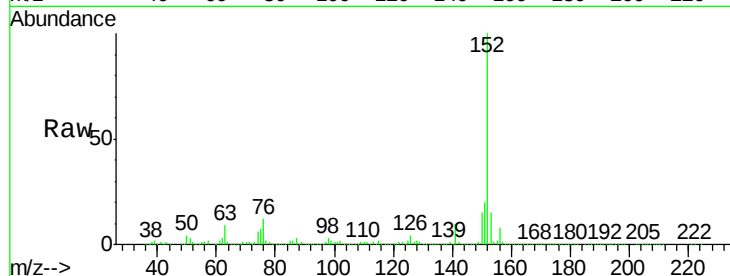
Tgt Ion:152 Resp: 8144192

Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.2

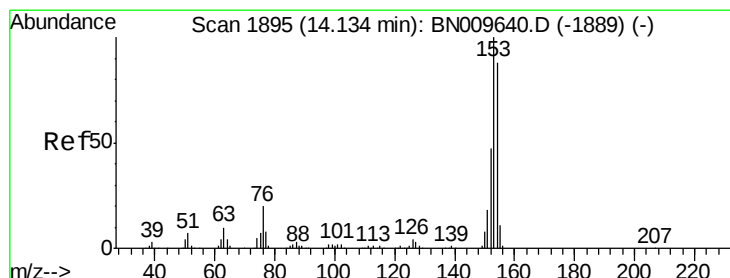
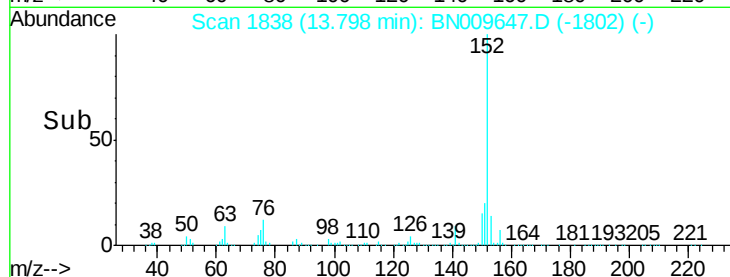
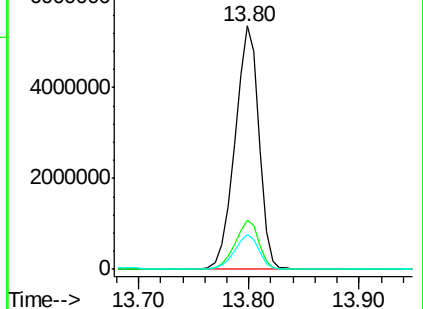
153 14.5 10.6 15.8



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: 21.24 ng/ul

RT: 14.14 min Scan# 1896

Delta R.T. 0.01 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

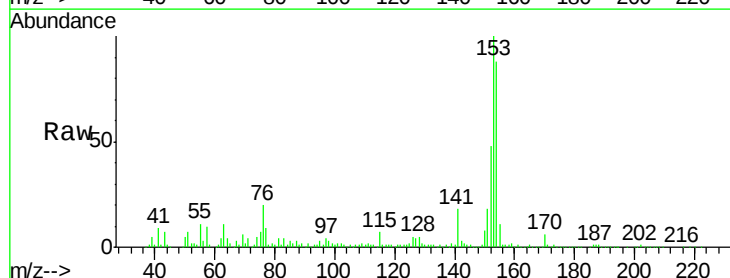
Tgt Ion:153 Resp: 630393

Ion Ratio Lower Upper

153 100

152 47.9 37.3 55.9

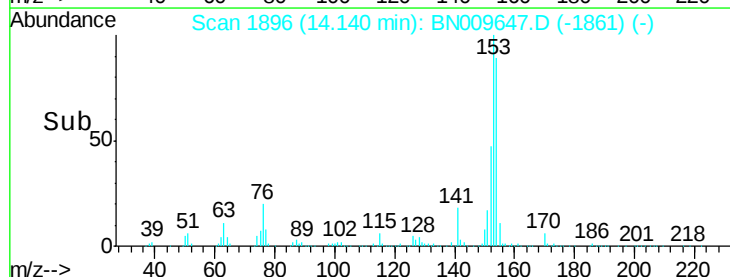
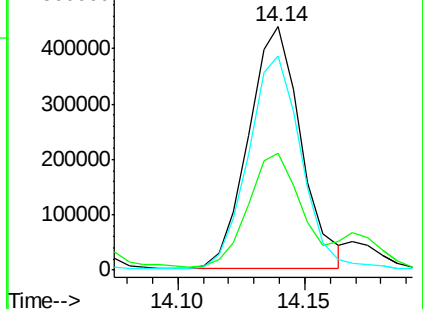
154 88.0 70.2 105.2

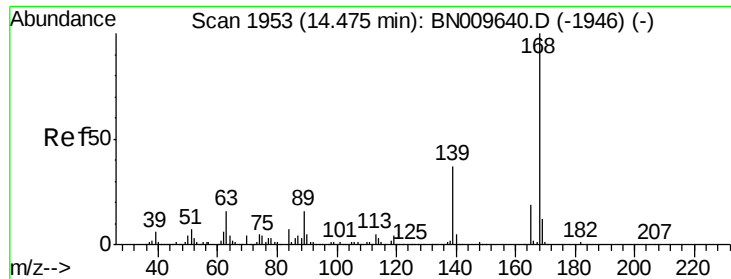


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzofuran

Concen: 16.14 ng/ul

RT: 14.47 min Scan# 1953

Delta R.T. -0.00 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

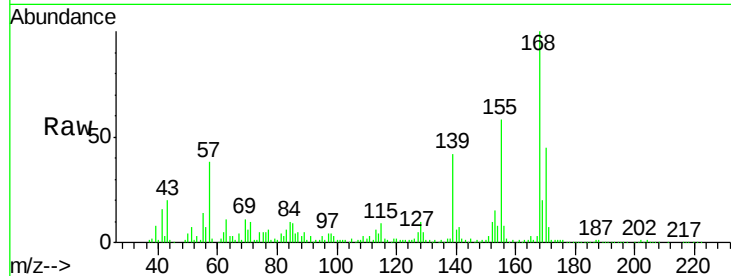
GAT66

Tgt Ion:168 Resp: 667122

Ion Ratio Lower Upper

168 100

139 42.1 29.5 44.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.47

400000

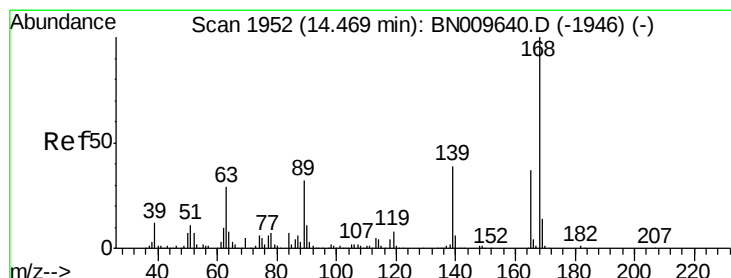
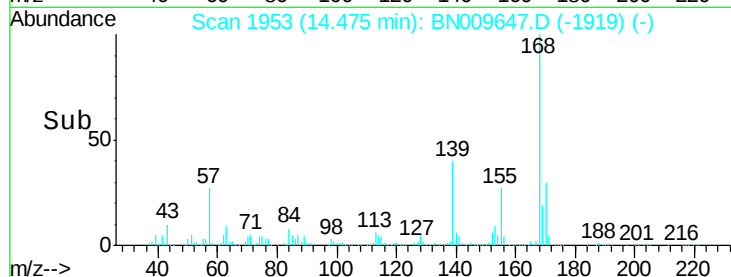
300000

200000

100000

0

Time-->



#54

2,4-Dinitrotoluene

Concen: 3.91 ng/ul

RT: 14.45 min Scan# 1949

Delta R.T. -0.02 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

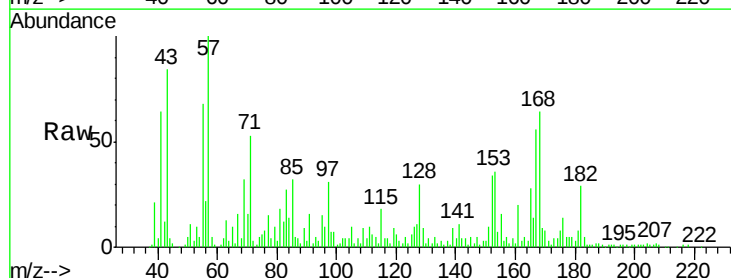
Tgt Ion:165 Resp: 39246

Ion Ratio Lower Upper

165 100

63 45.6 55.0 82.4#

182 105.1 2.4 3.6#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BNC

Ion 182.00 (181.70 to 182.70): E

60000

50000

40000

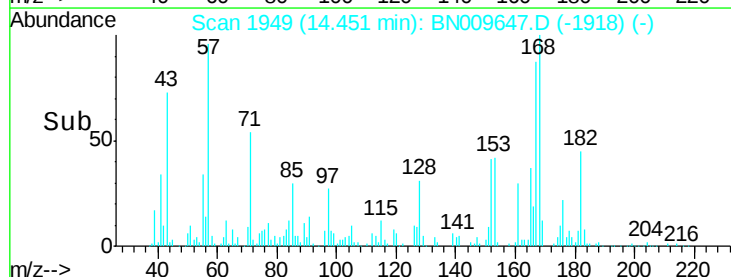
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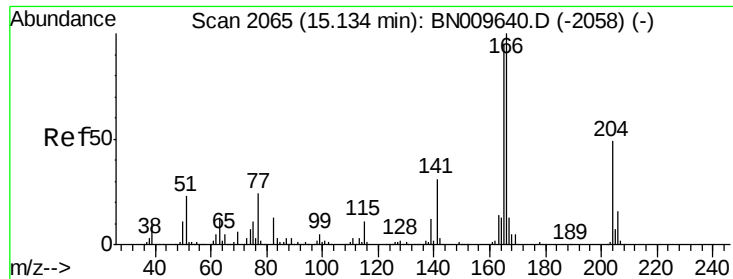
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10000

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Time-->

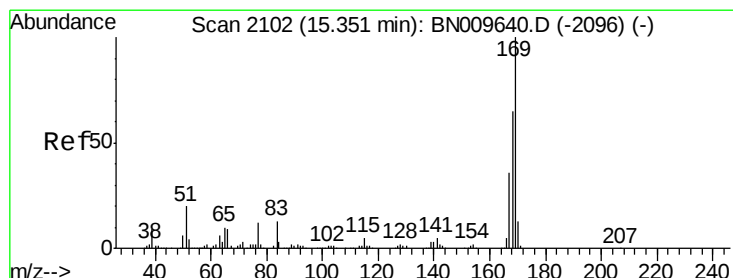
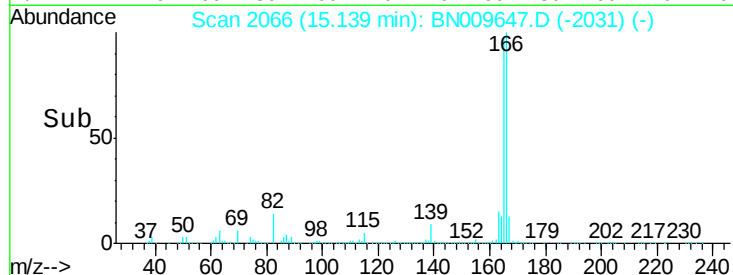
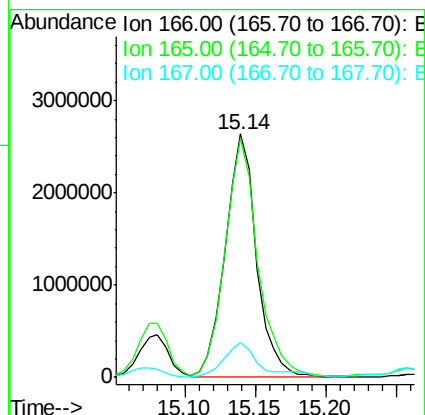
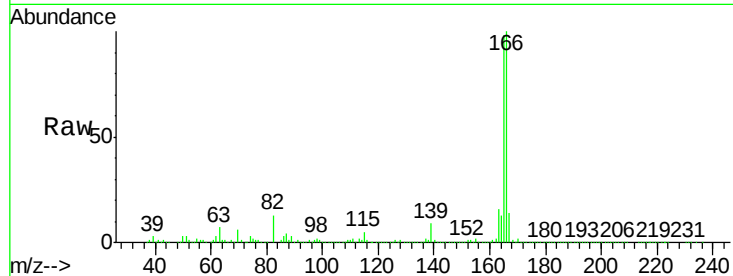




#58
 Fluorene
 Concen: 116.68 ng/ul
 RT: 15.14 min Scan# 2066
 Delta R.T. 0.01 min
 Lab File: BN009647.D
 Acq: 07 Feb 2020 14:24

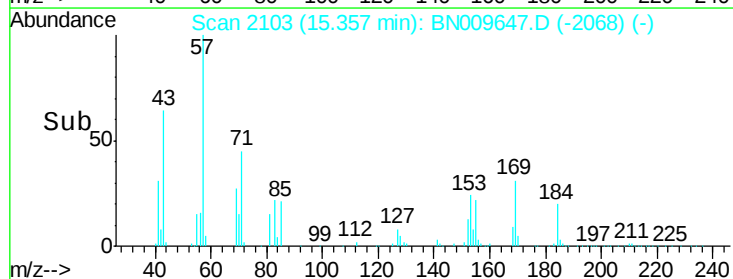
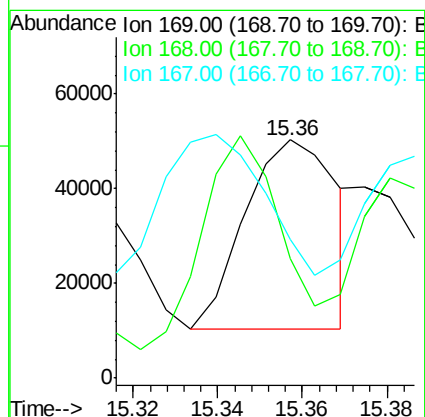
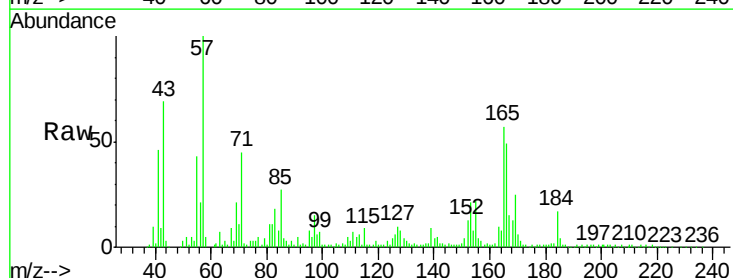
Instrument :
 BNA_N
 ClientSampleId :
 GAT66

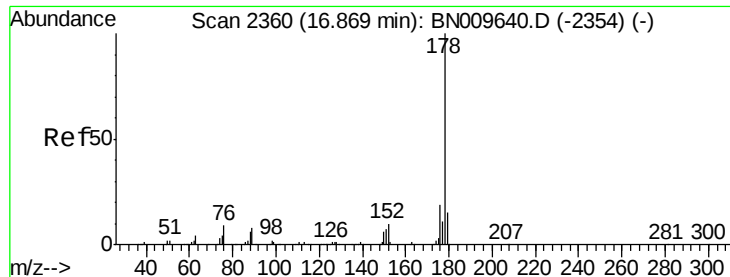
Tgt Ion:166 Resp: 4029979
 Ion Ratio Lower Upper
 166 100
 165 98.0 76.7 115.1
 167 14.2 11.1 16.7



#64
 N-Nitrosodiphenylamine
 Concen: 2.31 ng/ul
 RT: 15.36 min Scan# 2103
 Delta R.T. 0.01 min
 Lab File: BN009647.D
 Acq: 07 Feb 2020 14:24

Tgt Ion:169 Resp: 59863
 Ion Ratio Lower Upper
 169 100
 168 50.1 53.8 80.8#
 167 57.9 27.5 41.3#





#69

Phenanthrene

Concen: 305.35 ng/ul

RT: 16.89 min Scan# 2363

Delta R.T. 0.02 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampled :

GAT66

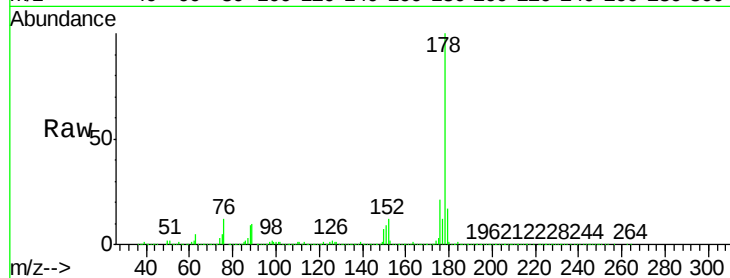
Tgt Ion:178 Resp:15116840

Ion Ratio Lower Upper

178 100

179 17.3 12.2 18.2

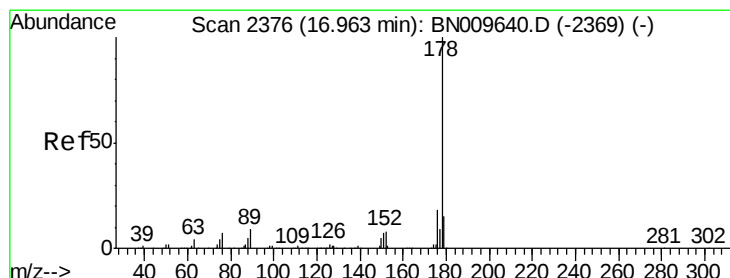
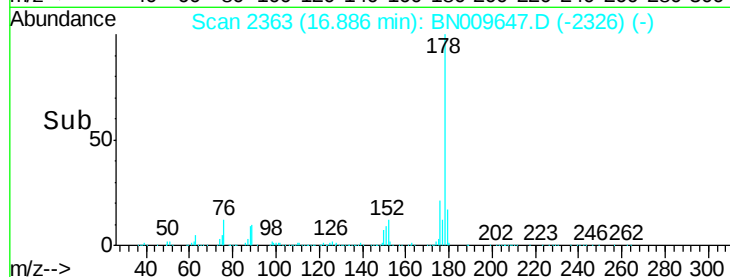
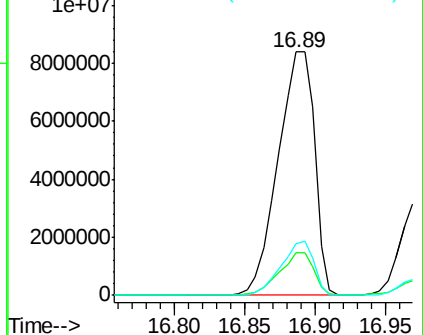
176 21.1 14.8 22.2



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: 81.60 ng/ul

RT: 16.97 min Scan# 2377

Delta R.T. 0.01 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

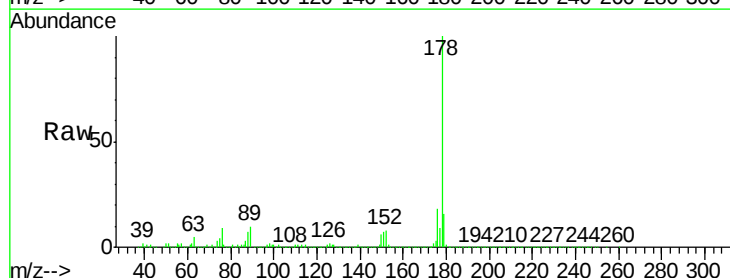
Tgt Ion:178 Resp: 4098693

Ion Ratio Lower Upper

178 100

179 15.6 12.1 18.1

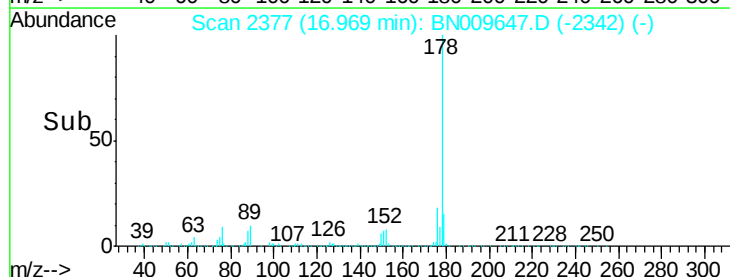
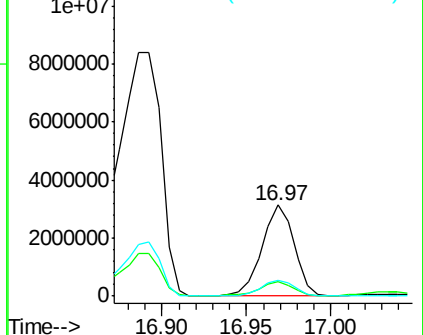
176 17.8 14.6 21.8

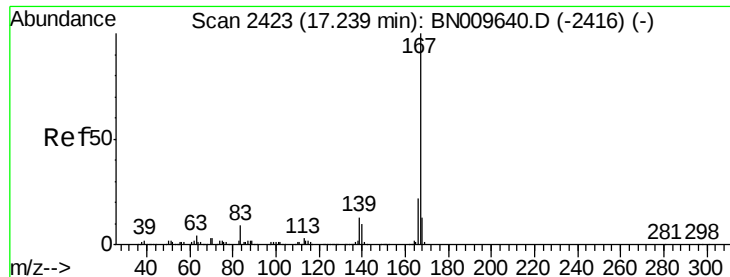


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 2.27 ng/ul

RT: 17.24 min Scan# 2423

Delta R.T. -0.00 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

GAT66

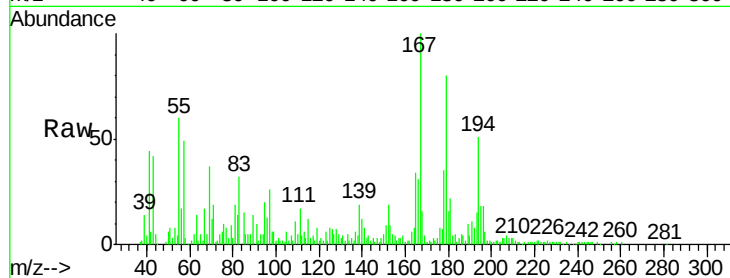
Tgt Ion:167 Resp: 99305

Ion Ratio Lower Upper

167 100

166 31.2 16.2 24.4#

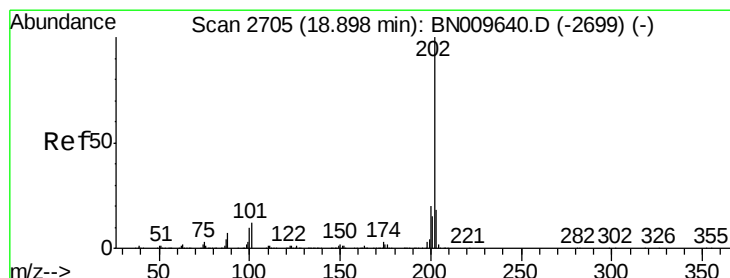
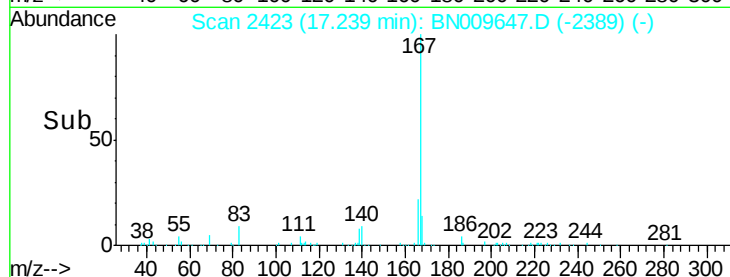
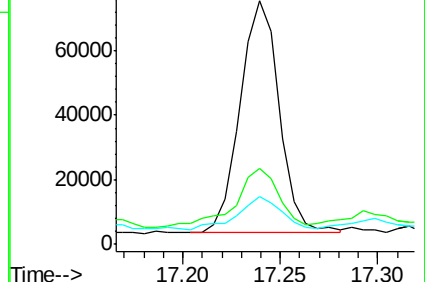
139 19.5 10.4 15.6#



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: 148.33 ng/ul

RT: 18.91 min Scan# 2707

Delta R.T. 0.01 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

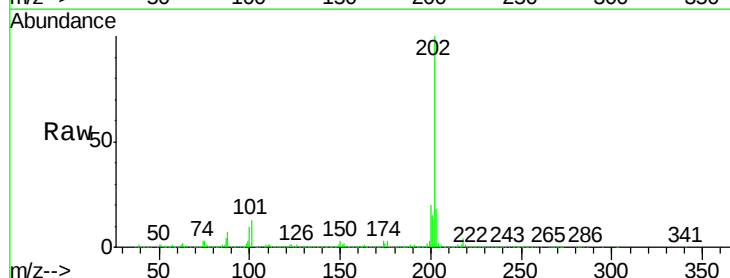
Tgt Ion:202 Resp: 8381001

Ion Ratio Lower Upper

202 100

101 13.3 9.2 13.8

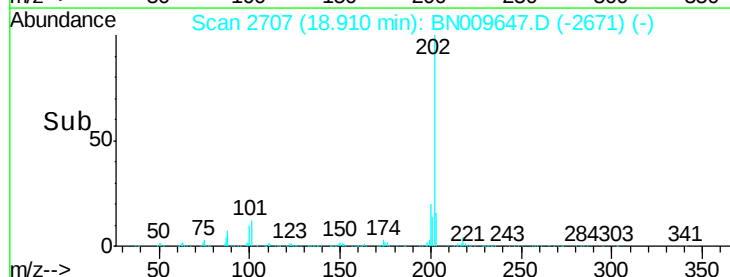
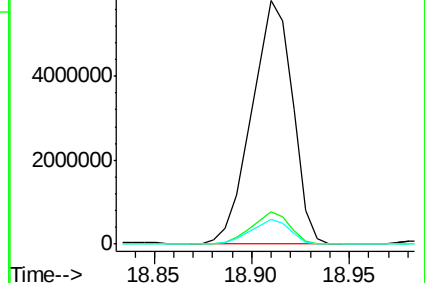
100 10.1 6.9 10.3

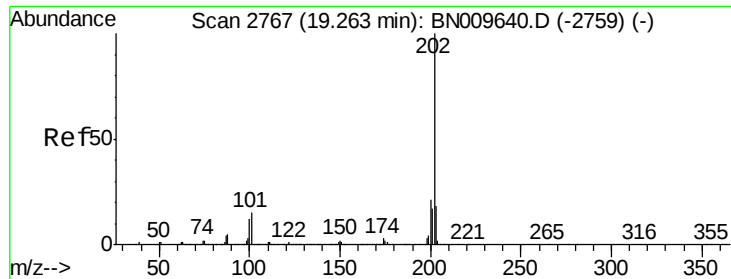


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#79

Pyrene

Concen: 10.88 ng/ul

RT: 19.18 min Scan# 2753

Delta R.T. -0.08 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

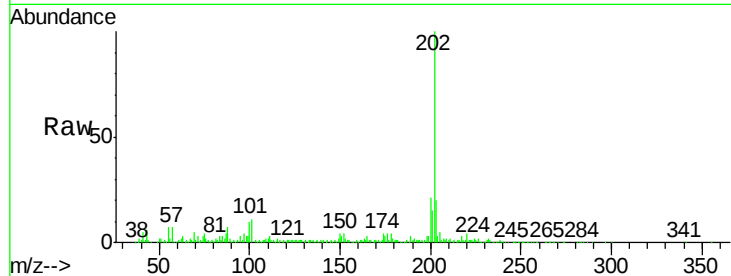
Instrument :

BNA_N

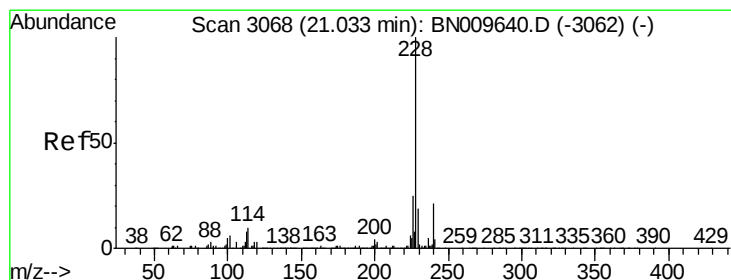
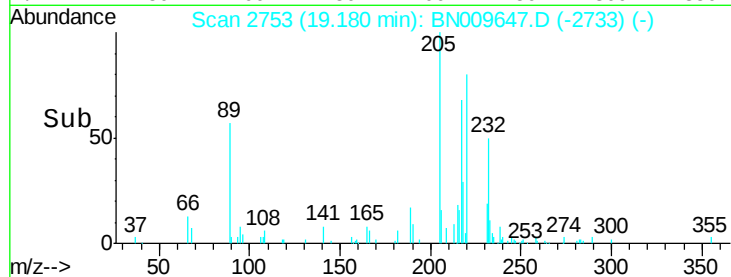
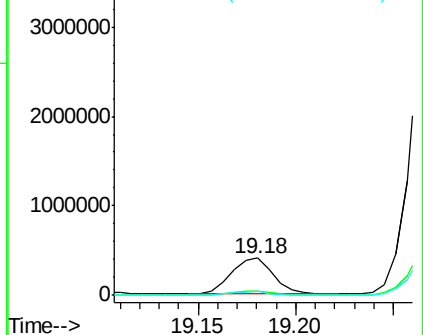
ClientSampleId :

GAT66

Tgt Ion:202 Resp: 610237
 Ion Ratio Lower Upper
 202 100
 101 11.0 10.3 15.5
 100 10.0 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: 81.68 ng/ul

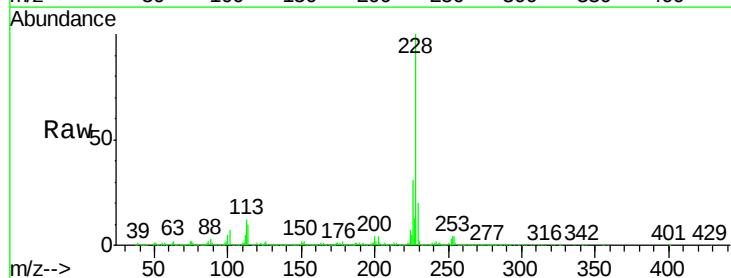
RT: 21.09 min Scan# 3078

Delta R.T. 0.06 min

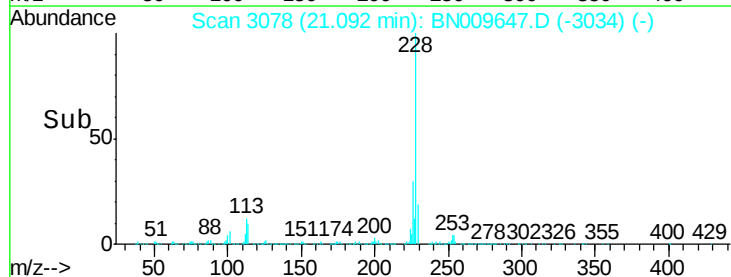
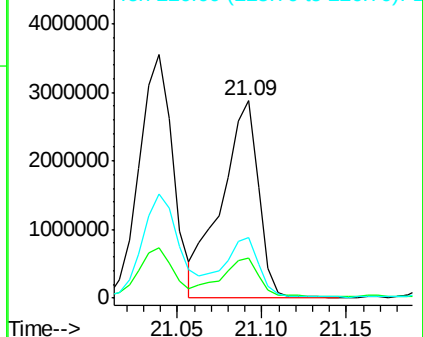
Lab File: BN009647.D

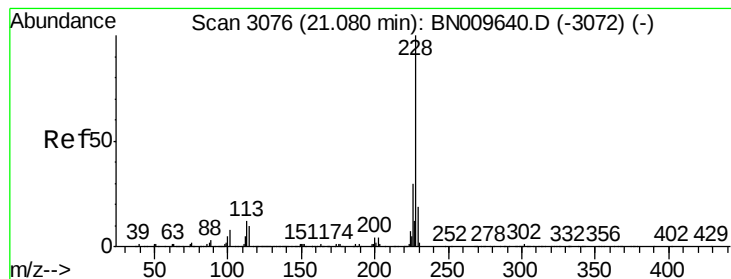
Acq: 07 Feb 2020 14:24

Tgt Ion:228 Resp: 4334445
 Ion Ratio Lower Upper
 228 100
 229 20.3 15.0 22.4
 226 30.6 20.9 31.3



Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 229.00 (228.70 to 229.70): E
 Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 82.07 ng/ul

RT: 21.09 min Scan# 3078

Delta R.T. 0.01 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

GAT66

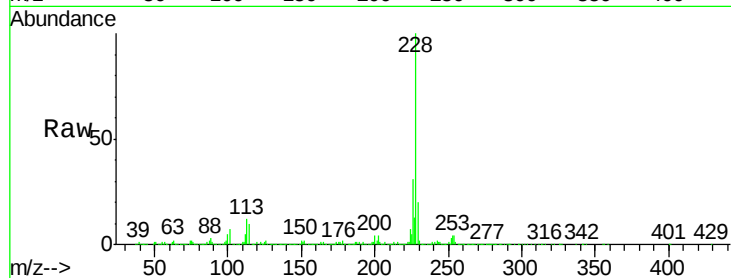
Tgt Ion:228 Resp: 433519

Ion Ratio Lower Upper

228 100

226 30.6 23.5 35.3

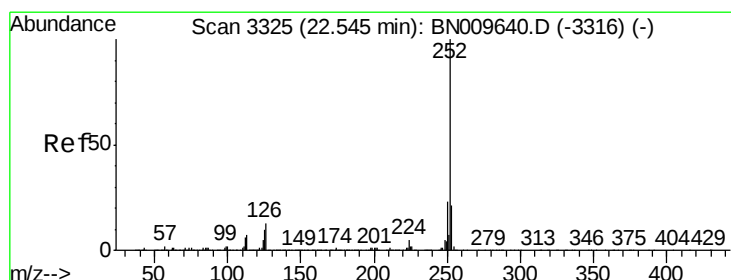
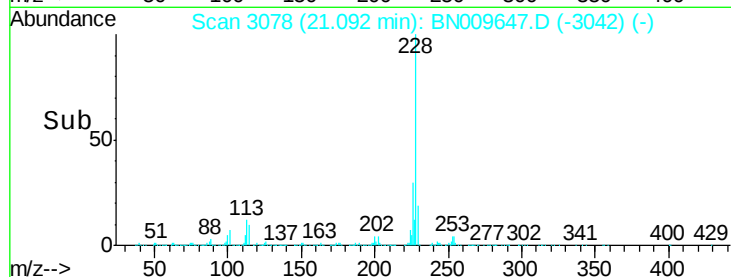
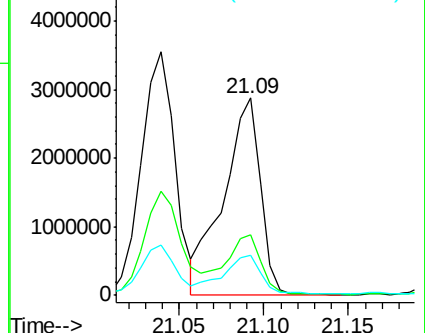
229 20.3 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Benzo(b)fluoranthene

Concen: 93.25 ng/ul

RT: 22.56 min Scan# 3327

Delta R.T. 0.01 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

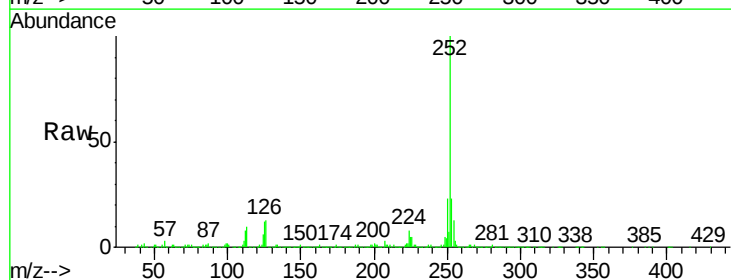
Tgt Ion:252 Resp: 4902954

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.6

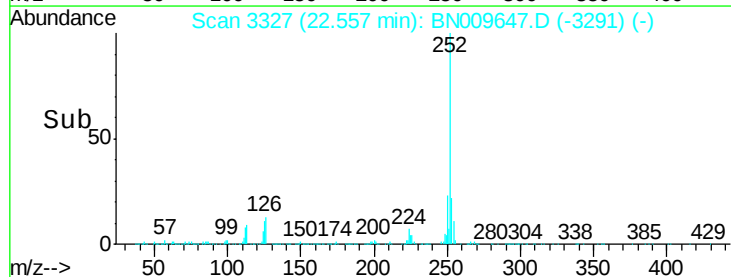
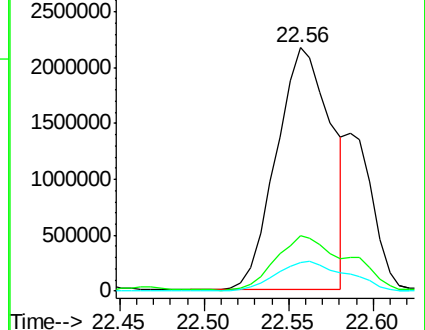
125 11.8 8.2 12.2

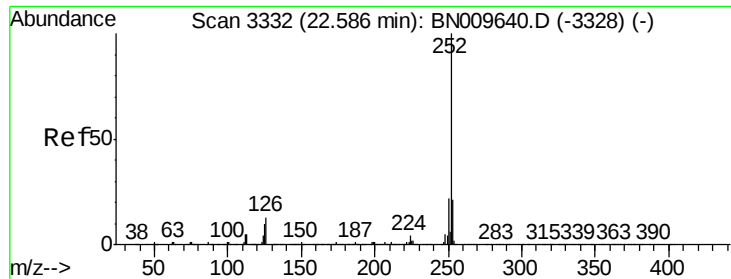


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 94.68 ng/ul

RT: 22.56 min Scan# 3327

Delta R.T. -0.03 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

GAT66

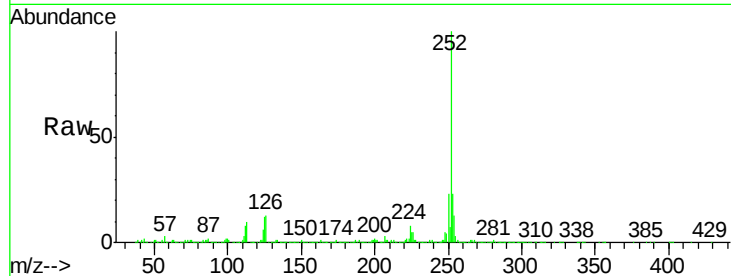
Tgt Ion:252 Resp: 4902954

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.4

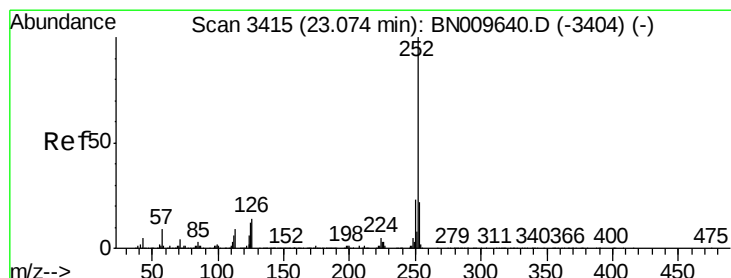
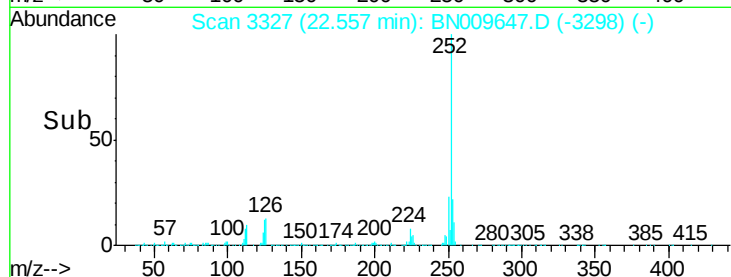
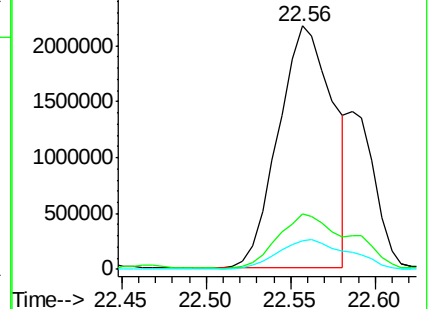
125 11.8 8.0 12.0



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: 101.67 ng/ul

RT: 23.09 min Scan# 3418

Delta R.T. 0.02 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

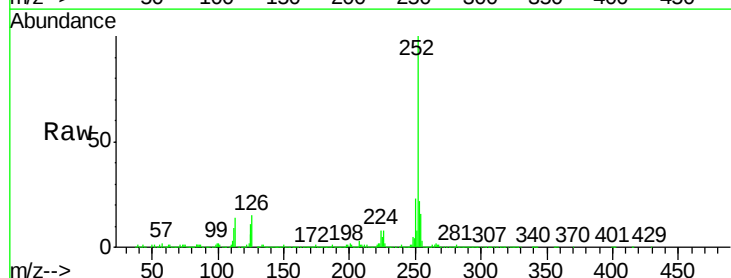
Tgt Ion:252 Resp: 4952918

Ion Ratio Lower Upper

252 100

253 22.0 15.8 23.8

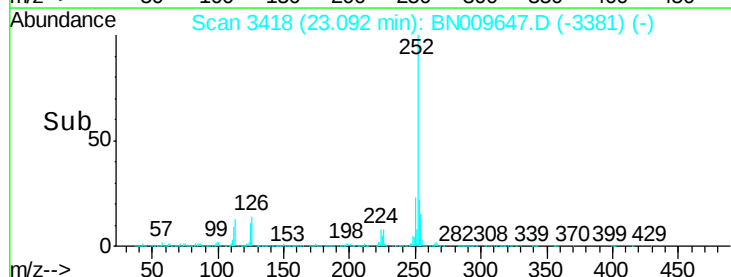
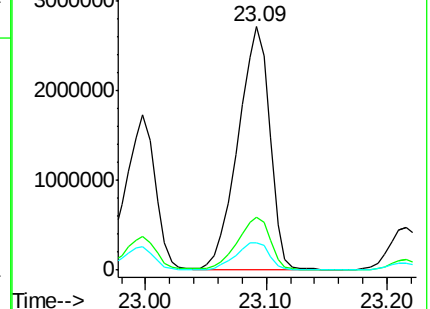
125 11.3 8.7 13.1

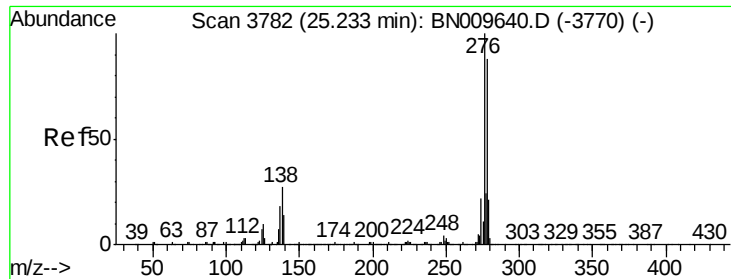


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Indeno(1,2,3-cd)pyrene

Concen: 42.11 ng/ul

RT: 25.25 min Scan# 3785

Delta R.T. 0.02 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

GAT66

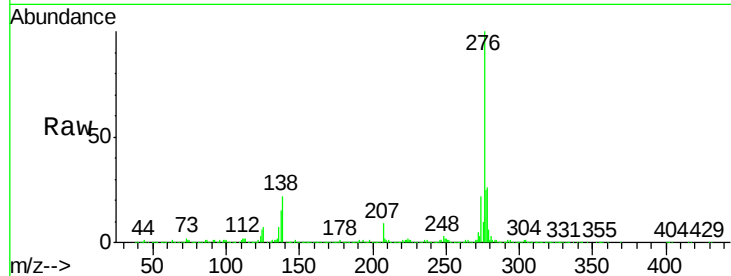
Tgt Ion:276 Resp: 2439063

Ion Ratio Lower Upper

276 100

138 22.5 20.3 30.5

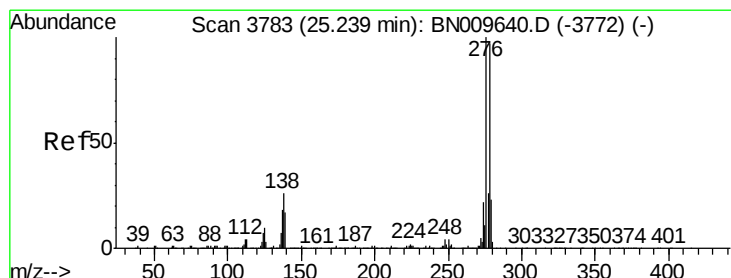
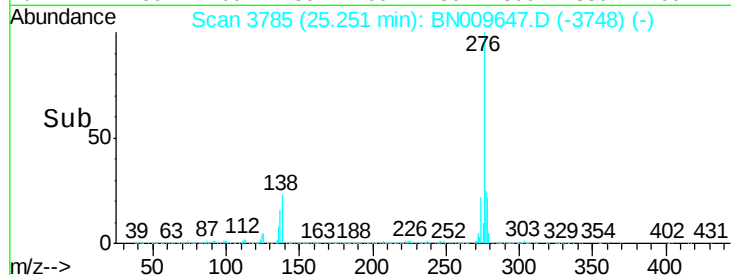
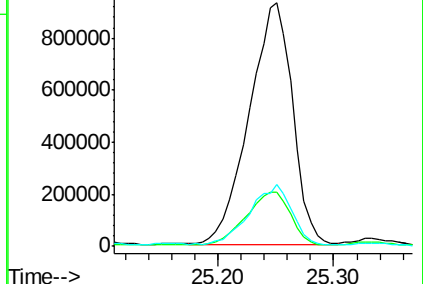
277 25.2 21.2 31.8



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



#92

Dibenzo(a,h)anthracene

Concen: 15.03 ng/ul

RT: 25.24 min Scan# 3784

Delta R.T. 0.01 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

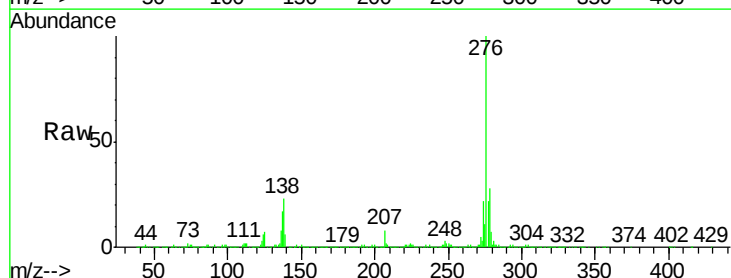
Tgt Ion:278 Resp: 732768

Ion Ratio Lower Upper

278 100

139 21.9 12.7 19.1#

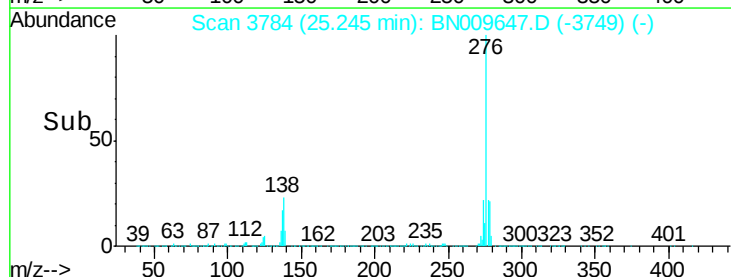
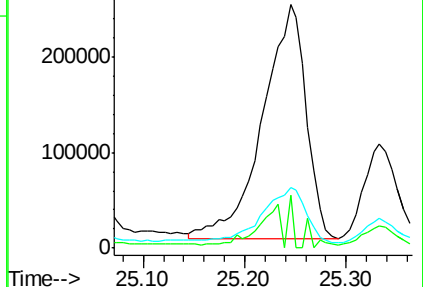
279 24.8 19.8 29.8

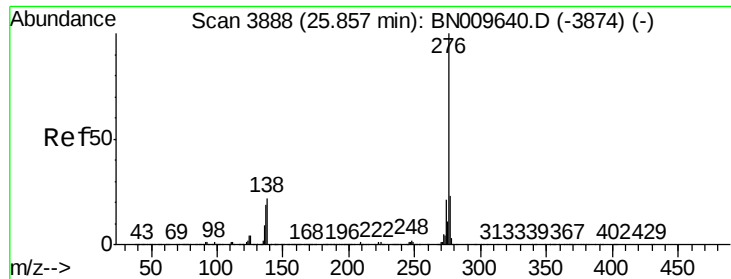


Abundance Ion 278.00 (277.70 to 278.70): E

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: 51.19 ng/ul

RT: 25.88 min Scan# 3892

Delta R.T. 0.02 min

Lab File: BN009647.D

Acq: 07 Feb 2020 14:24

Instrument :

BNA_N

ClientSampleId :

GAT66

Tgt Ion:276 Resp: 2484740

Ion Ratio Lower Upper

276 100

138 22.0 16.0 24.0

277 24.4 17.0 25.6

