

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN051019\
 Data File : BN005609.D
 Acq On : 11 May 2019 03:45
 Operator : JU/SJ
 Sample : K2604-01 20X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 11 06:30:36 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 07 05:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	83482	20.00	ng/ul	0.00
18) Naphthalene-d8	10.35	136	321824	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.22	164	190688	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.97	188	334080	20.00	ng/ul	0.00
77) Chrysene-d12	21.20	240	276464	20.00	ng/ul	-0.01
85) Perylene-d12	23.40	264	325112	20.00	ng/ul	-0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.21	96	330	0.19	ng/uL	0.00
5) Phenol-d5	6.78	99	8904	1.36	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	7306	1.79	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	7908	1.58	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	7631	1.49	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	5737	2.90	ng/ul	0.00
22) 2-Nitrophenol-d4	9.44	143	4112	2.05	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	7975	1.73	ng/ul	0.01
29) 4-Chloroaniline-d4	10.46	131	31898	6.72	ng/ul	-0.04
43) Dimethylphthalate-d6	13.63	166	31502	2.28	ng/ul	0.00
46) Acenaphthylene-d8	13.90	160	30485	1.79	ng/ul	0.00
51) 4-Nitrophenol-d4	14.45	143	1771	0.81	ng/ul	0.00
57) Fluorene-d10	15.22	176	24682	2.12	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.37	200	792	0.53	ng/ul	0.01
70) Anthracene-d10	17.07	188	29905	2.14	ng/ul	0.00
78) Pyrene-d10	19.39	212	29695	2.10	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.27	264	26550	1.87	ng/ul	-0.01

Target Compounds

					Ovalue	
4) Benzaldehyde	6.75	77	6049	1.302	ng/ul#	1
6) Phenol	6.80	94	10132	1.502	ng/ul	90
11) 2-Methylphenol	8.03	108	22699	4.492	ng/ul	81
14) Acetophenone	8.38	105	22411	2.732	ng/ul#	52
16) 4-Methylphenol	8.35	108	16491	3.022	ng/ul	96
17) Hexachloroethane	8.67	117	33943	15.068	ng/ul#	6
24) 2,4-Dimethylphenol	9.54	107	17324	3.041	ng/ul	92
28) Naphthalene	10.40	128	14831317	991.327	ng/ul	98
30) 4-Chloroaniline	10.40	127	2083249	430.862	ng/ul#	9
32) Caprolactam	11.27	113	3298	2.399	ng/ul#	1
34) 2-Methylnaphthalene	12.02	142	5983520	546.207	ng/ul	99
40) 1,1'-Biphenyl	13.04	154	907648	63.883	ng/ul	98
47) Acenaphthylene	13.94	152	3537201	211.706	ng/ul	97
49) Acenaphthene	14.28	153	521692	45.737	ng/ul	97
53) Dibenzofuran	14.62	168	1336799	81.400	ng/ul	99
54) 2,4-Dinitrotoluene	14.59	165	23159	6.745	ng/ul#	50
58) Fluorene	15.27	166	2957675	230.801	ng/ul	98
64) N-Nitrosodiphenylamine	15.49	169	68466	7.488	ng/ul#	91
69) Phenanthrene	17.03	178	11873275	729.754	ng/ul	97
71) Anthracene	17.11	178	3298152	198.991	ng/ul	99
74) Carbazole	17.38	167	313008	21.984	ng/ul	99
76) Fluoranthene	19.05	202	5838089	323.498	ng/ul	96
82) Benzo(a)anthracene	21.19	228	2604113	151.412	ng/ul	93

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Response via : Initial Calibration

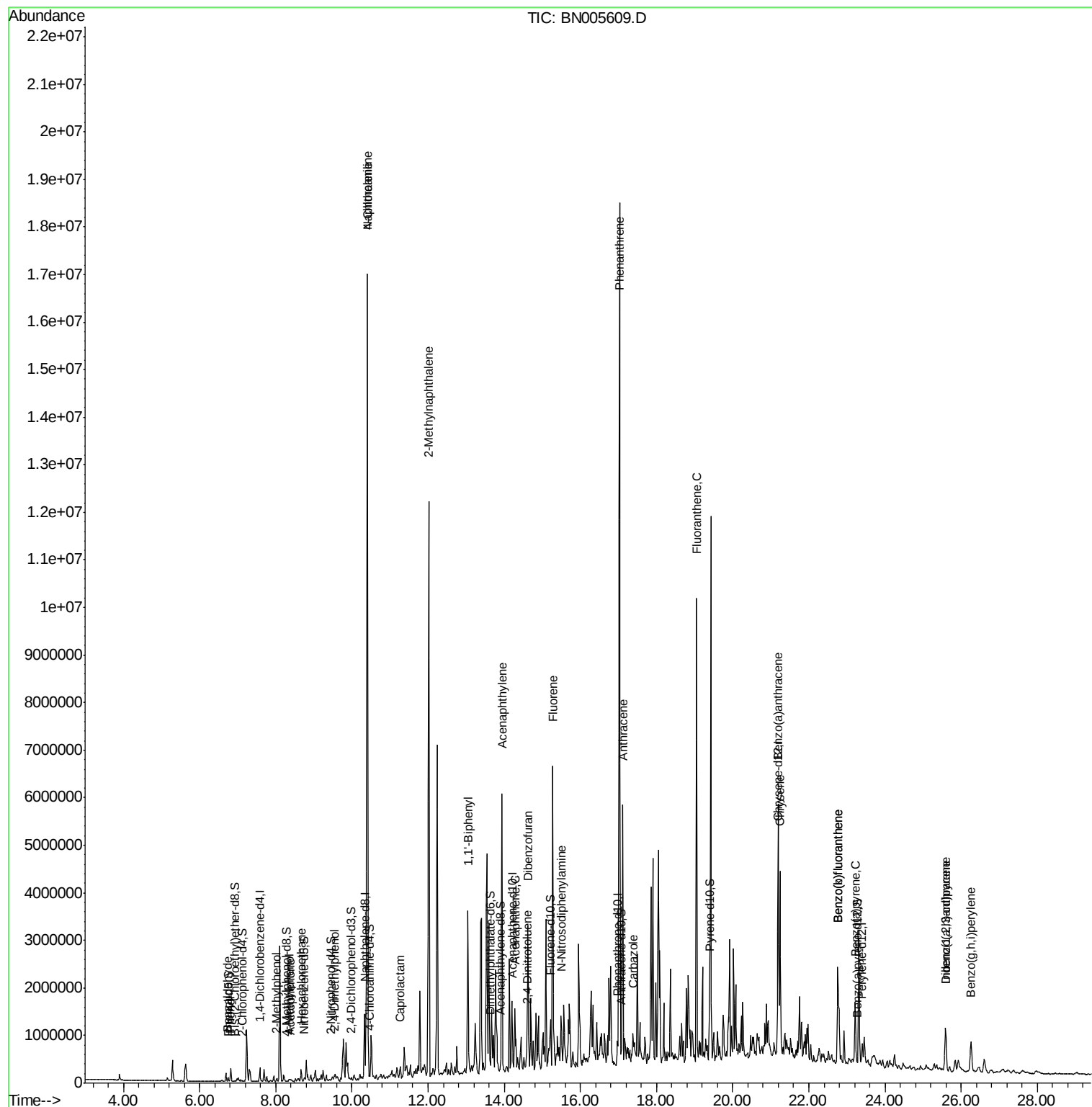
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Chrysene	21.24	228	2210476	138.482	ng/ul	97
87) Benzo(b)fluoranthene	22.76	252	1928880	105.545	ng/ul#	97
88) Benzo(k)fluoranthene	22.76	252	1928880	110.511	ng/ul	99
90) Benzo(a)pyrene	23.22	252	941538	54.811	ng/ul	99
91) Indeno(1,2,3-cd)pyrene	25.59	276	836407	44.039	ng/ul#	93
92) Dibenzo(a,h)anthracene	25.59	278	244919	15.195	ng/ul#	79
93) Benzo(q,h,i)perylene	26.26	276	776212	49.428	ng/ul#	93

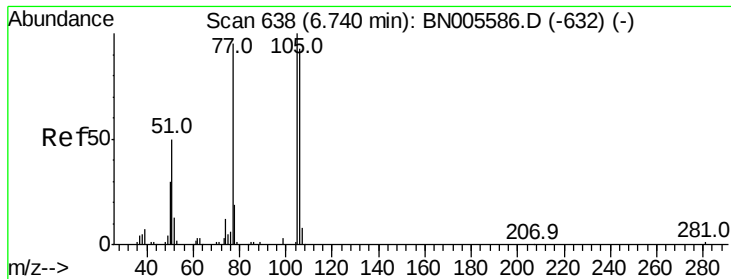
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.302 ng/ul

RT: 6.75 min Scan# 639

Delta R.T. 0.00 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

ClientSampled :

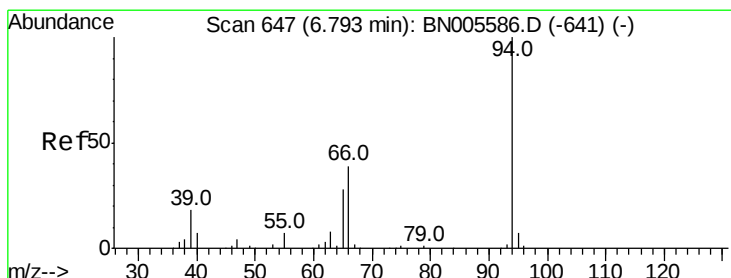
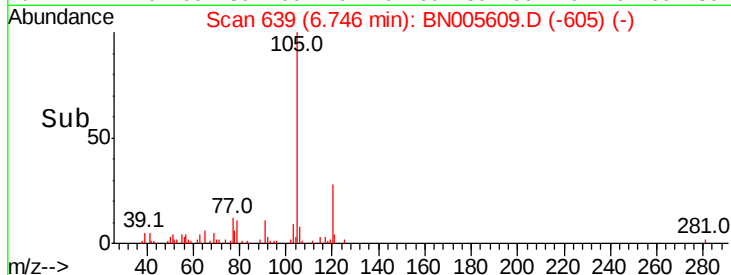
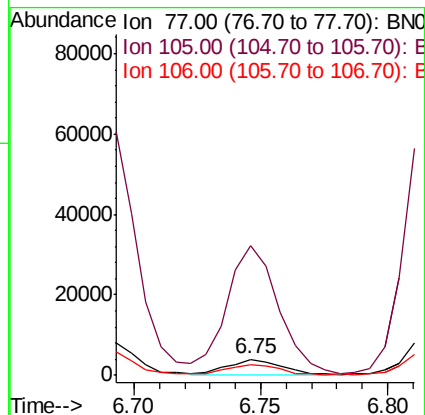
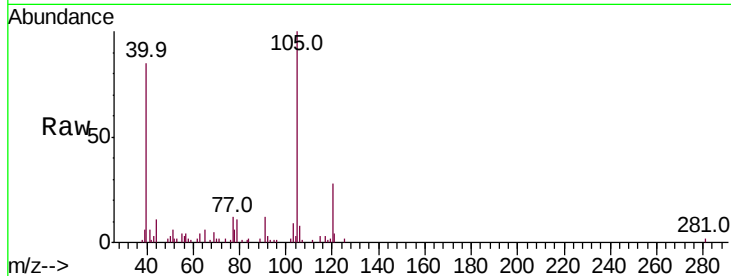
Tot Ion: 77 Resp: 6049

Ion Ratio Lower Upper

77 100

105 822.4 77.4 116.2#

106 64.7 76.3 114.5#



#6

Phenol

Concen: 1.502 ng/ul

RT: 6.80 min Scan# 648

Delta R.T. 0.00 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

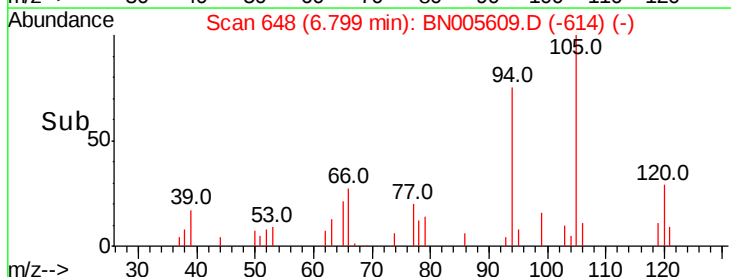
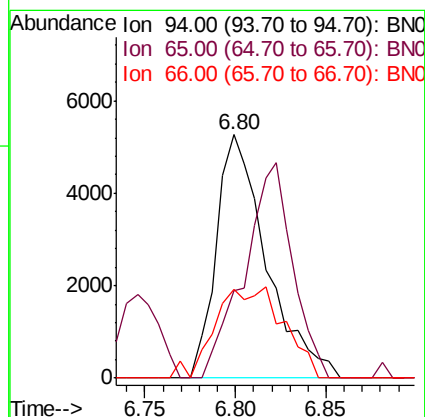
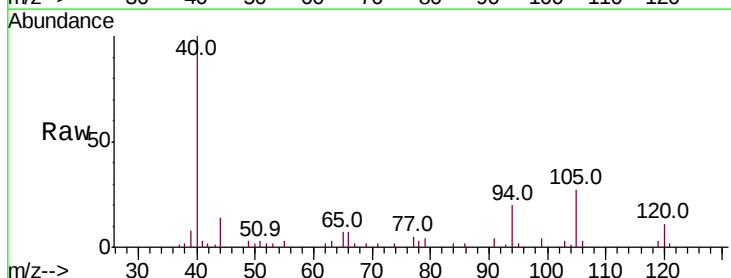
Tgt Ion: 94 Resp: 10132

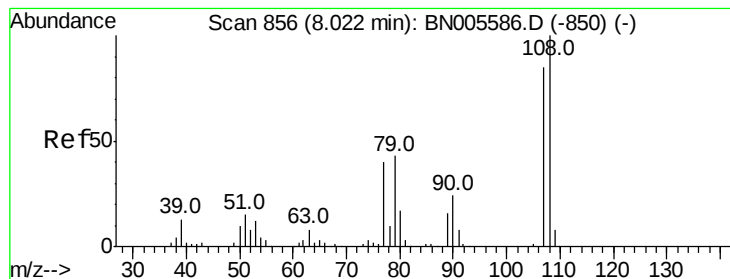
Ion Ratio Lower Upper

94 100

65 36.0 24.2 36.4

66 36.6 33.8 50.6





#11

2-Methylphenol

Concen: 4.492 ng/ul

RT: 8.03 min Scan# 857

Delta R.T. 0.00 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

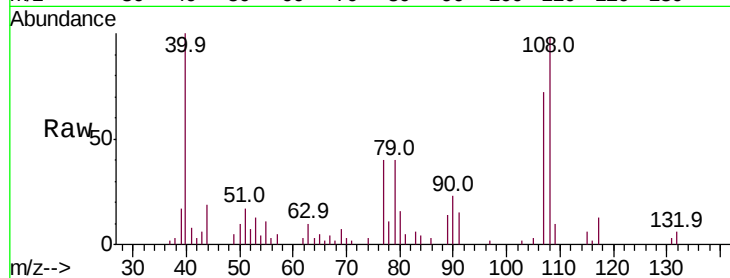
ClientSampleId :

Tot Ion:108 Resp: 22699

Ion Ratio Lower Upper

108 100

107 73.3 72.9 109.3



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

8.03

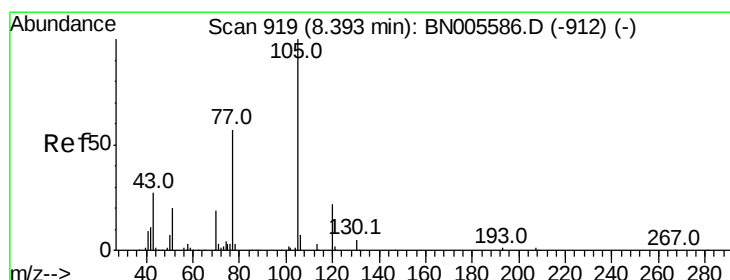
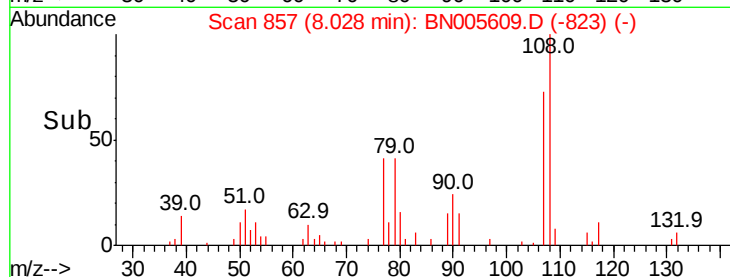
15000

10000

5000

0

Time-->



#14

Acetophenone

Concen: 2.732 ng/ul

RT: 8.38 min Scan# 916

Delta R.T. -0.02 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

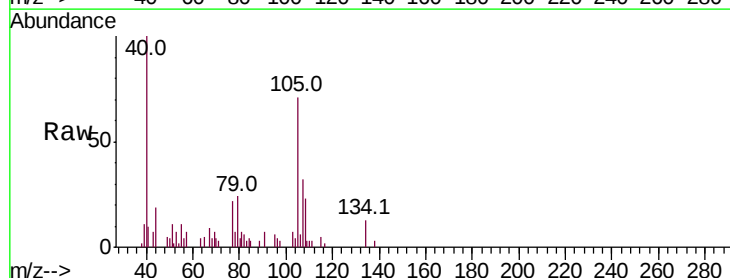
Tgt Ion:105 Resp: 22411

Ion Ratio Lower Upper

105 100

77 30.4 63.4 95.0#

51 15.3 24.2 36.4#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BNC

Ion 51.00 (50.70 to 51.70): BNC

8.38

12000

10000

8000

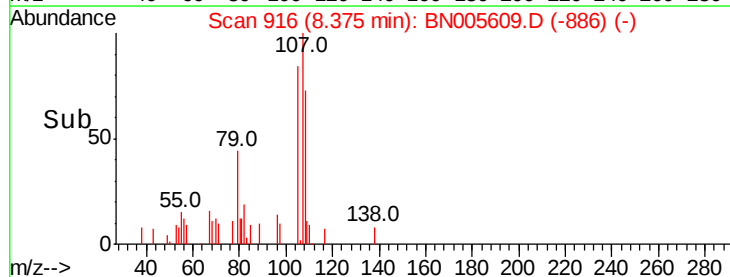
6000

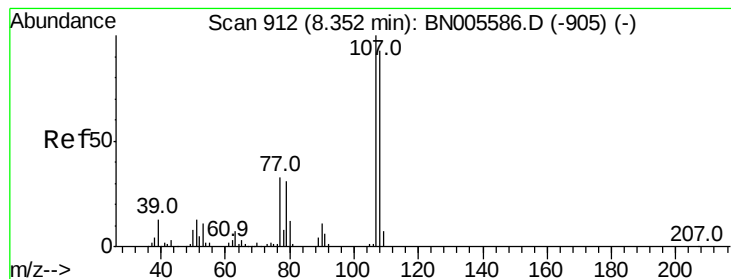
4000

2000

0

Time-->





#16

4-Methylphenol

Concen: 3.022 ng/ul

RT: 8.35 min Scan# 912

Delta R.T. 0.00 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

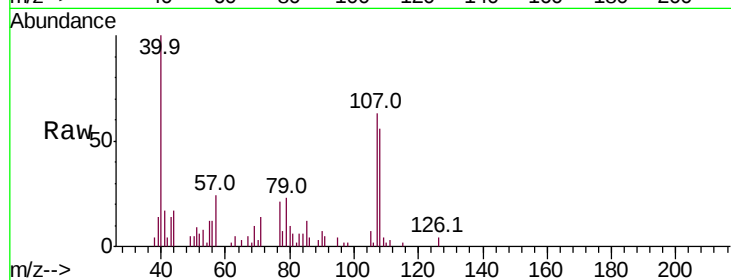
ClientSampled :

Tot Ion:108 Resp: 16491

Ion Ratio Lower Upper

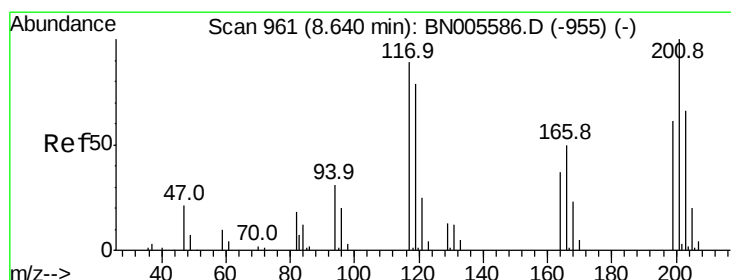
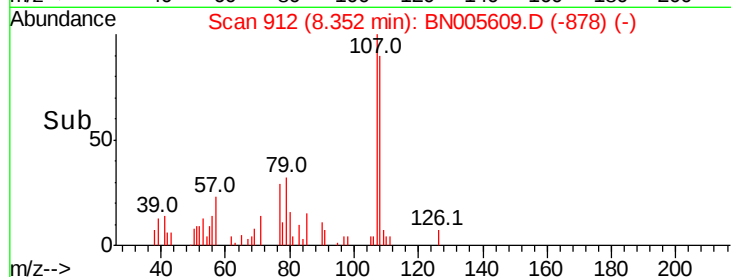
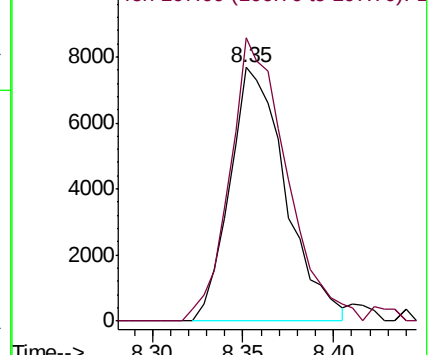
108 100

107 111.6 86.1 129.1



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#17

Hexachloroethane

Concen: 15.068 ng/ul

RT: 8.67 min Scan# 966

Delta R.T. 0.02 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

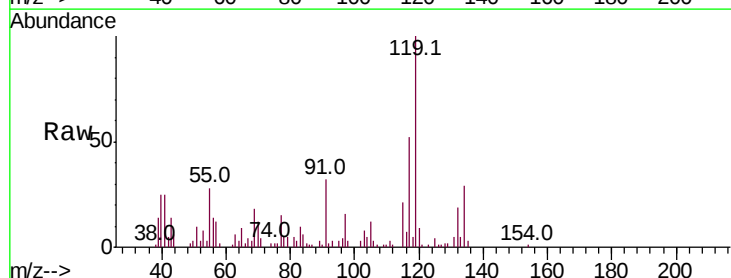
Tgt Ion:117 Resp: 33943

Ion Ratio Lower Upper

117 100

201 0.0 84.1 126.1#

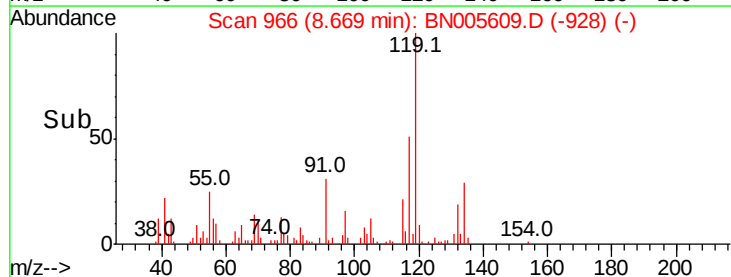
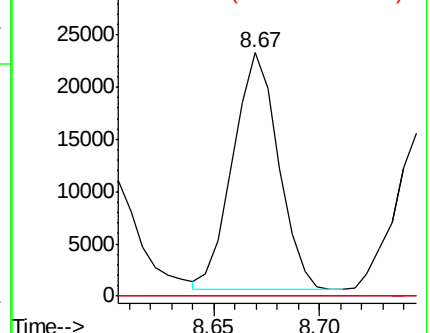
199 0.0 51.2 76.8#

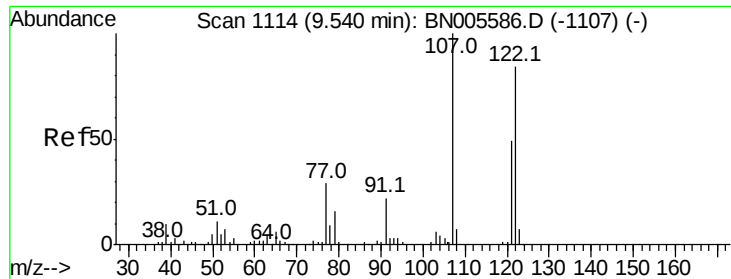


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E





#24

2,4-Dimethylphenol

Concen: 3.041 ng/ul

RT: 9.54 min Scan# 1114

Delta R.T. 0.00 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

ClientSampled :

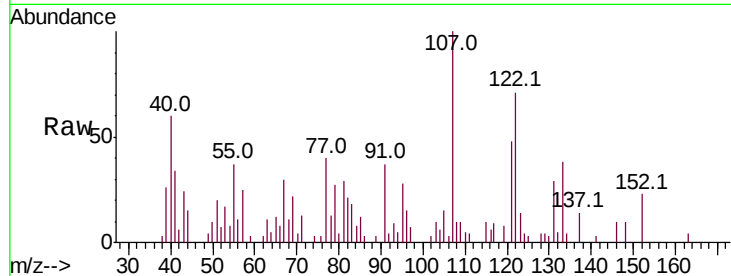
Tot Ion:107 Resp: 17324

Ion Ratio Lower Upper

107 100

121 48.2 37.8 56.8

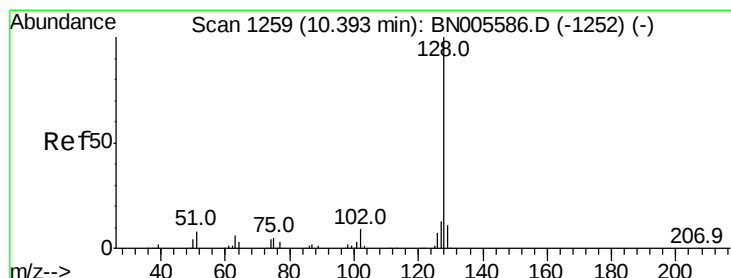
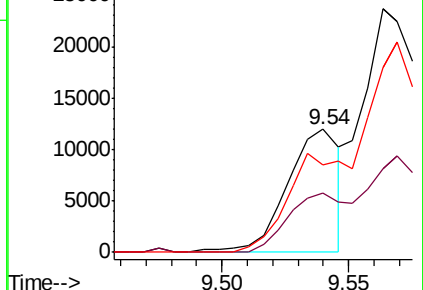
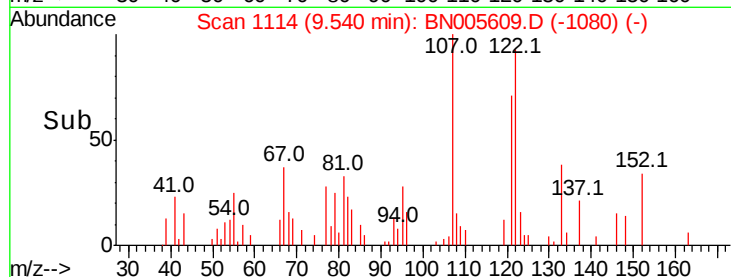
122 71.3 65.0 97.4



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

Ion 122.00 (121.70 to 122.70): E



#28

Naphthalene

Concen: 991.327 ng/ul

RT: 10.40 min Scan# 1261

Delta R.T. 0.01 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

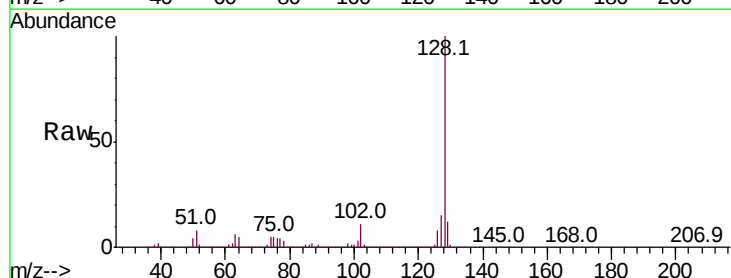
Tgt Ion:128 Resp:14831317

Ion Ratio Lower Upper

128 100

129 12.1 9.2 13.8

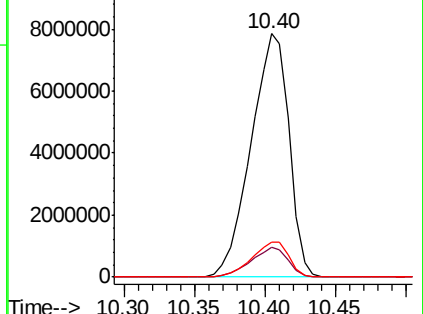
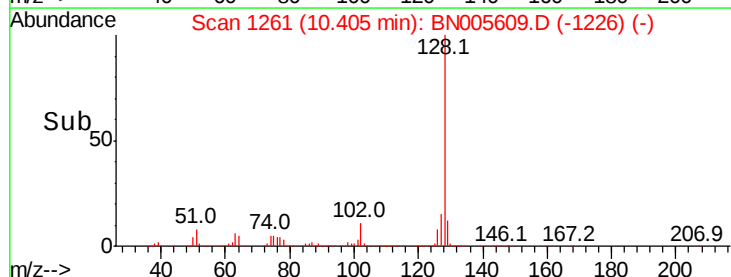
127 14.6 10.7 16.1

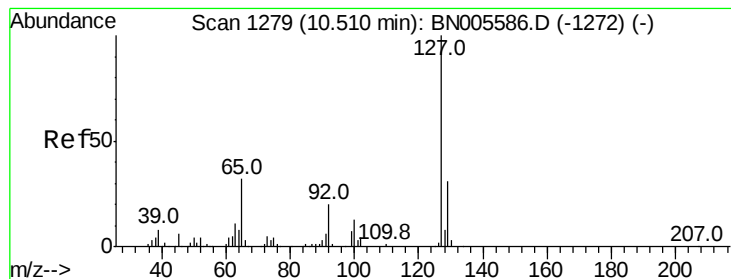


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#30

4-Chloroaniline

Concen: 430.862 ng/ul

RT: 10.40 min Scan# 1261

Delta R.T. -0.11 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

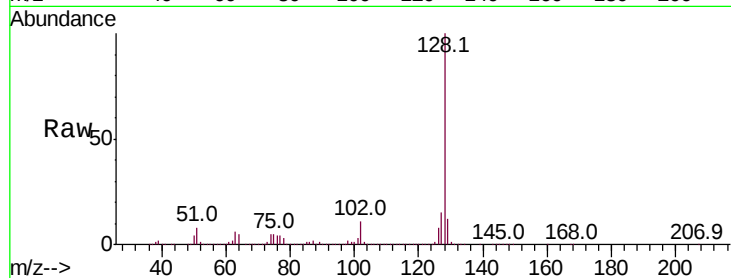
ClientSampled :

Tot Ion:127 Resp: 2083249

Ion Ratio Lower Upper

127 100

129 82.9 25.8 38.6#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

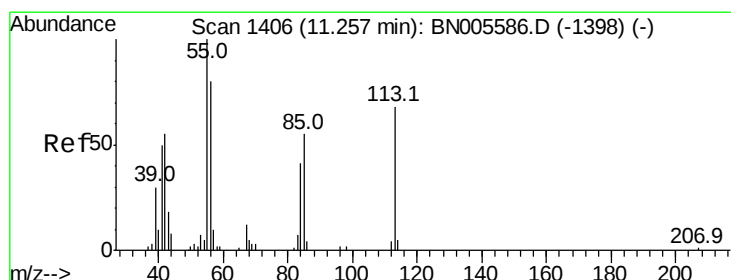
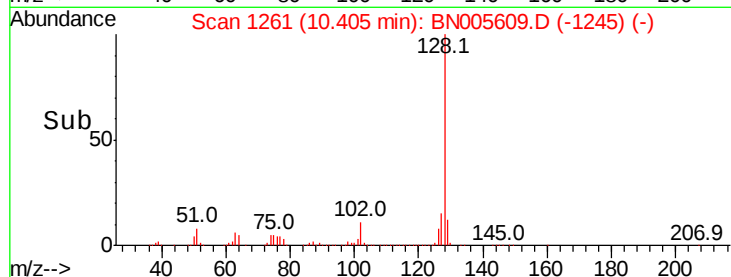
10.40

1000000

500000

0

Time-->



#32

Caprolactam

Concen: 2.399 ng/ul

RT: 11.27 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

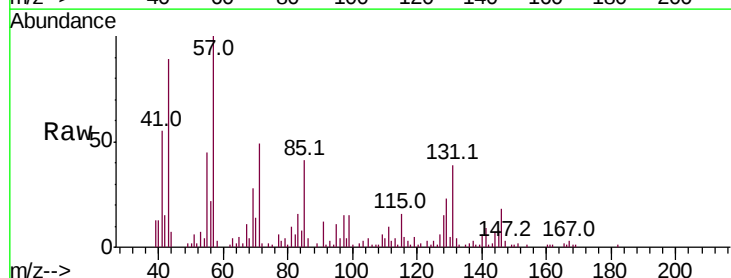
Tgt Ion:113 Resp: 3298

Ion Ratio Lower Upper

113 100

55 1117.9 157.0 235.4#

56 550.0 119.1 178.7#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNC

Ion 56.00 (55.70 to 56.70): BNC

20000

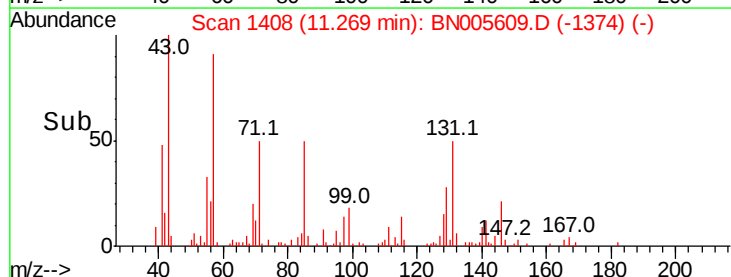
15000

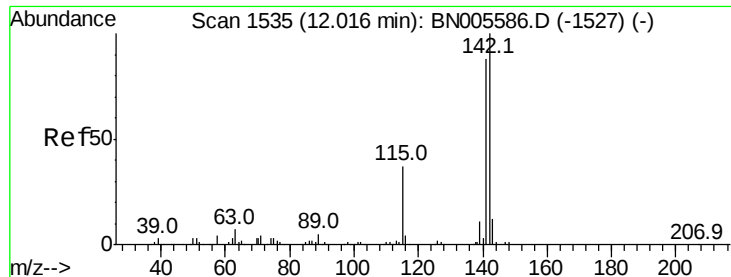
10000

5000

0

Time-->

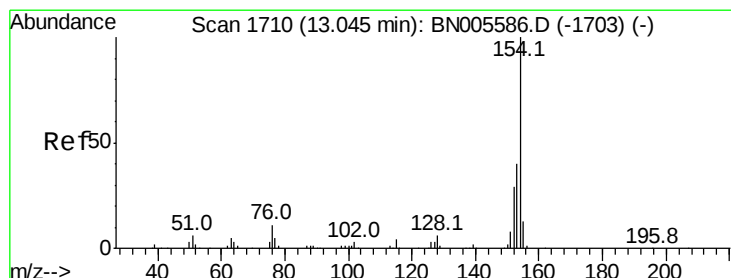
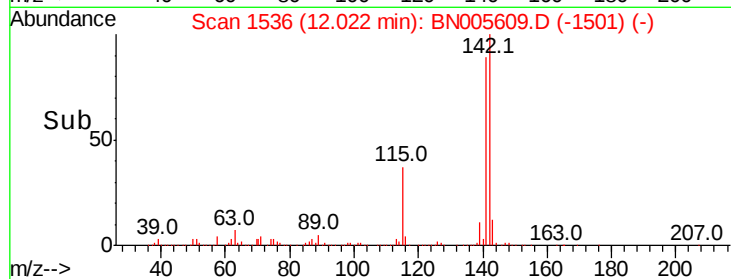
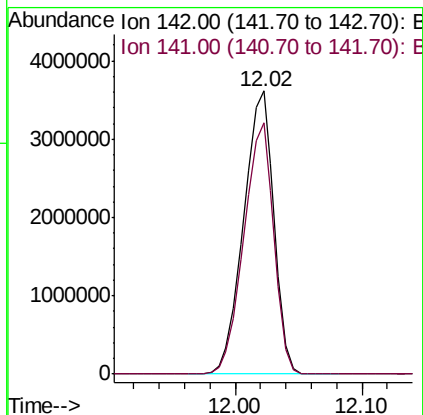
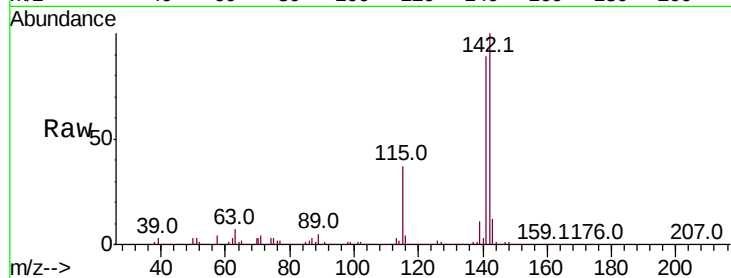




#34
 2-Methylnaphthalene
 Concen: 546.207 ng/ul
 RT: 12.02 min Scan# 1536
 Delta R.T. 0.01 min
 Lab File: BN005609.D
 Acq: 11 May 2019 03:45

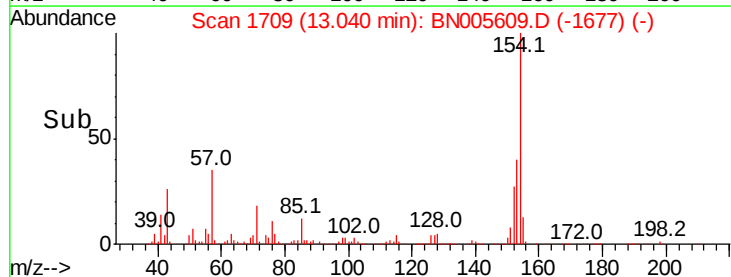
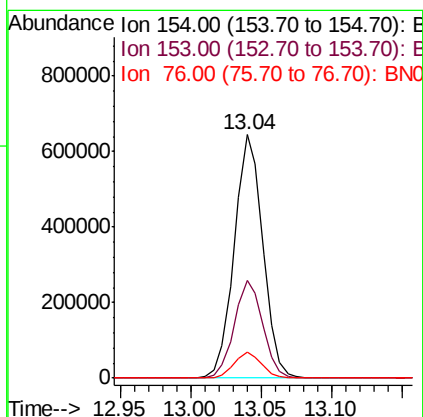
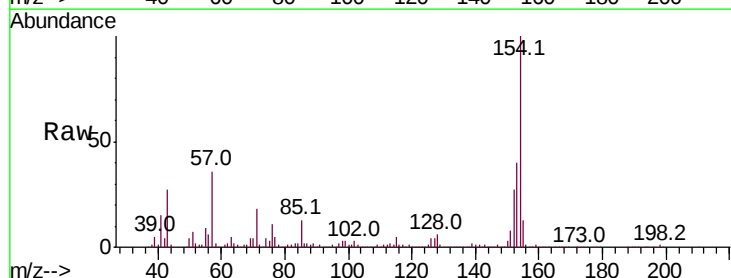
Instrument :
 BNA_N
 ClientSampleId :

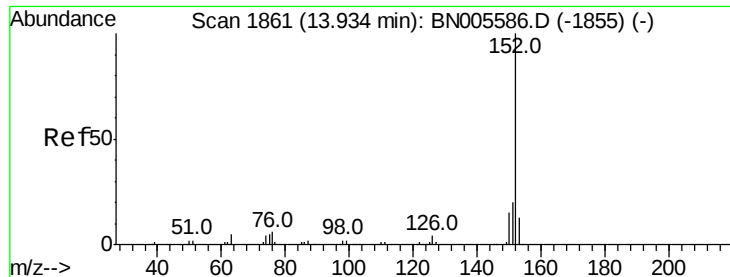
Tot Ion:142 Resp: 5983520
 Ion Ratio Lower Upper
 142 100
 141 88.9 72.0 108.0



#40
 1,1'-Biphenyl
 Concen: 63.883 ng/ul
 RT: 13.04 min Scan# 1709
 Delta R.T. -0.01 min
 Lab File: BN005609.D
 Acq: 11 May 2019 03:45

Tgt Ion:154 Resp: 907648
 Ion Ratio Lower Upper
 154 100
 153 40.1 32.6 49.0
 76 10.8 10.4 15.6





#47

Acenaphthylene

Concen: 211.706 ng/ul

RT: 13.94 min Scan# 1862

Delta R.T. 0.00 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

ClientSampleId :

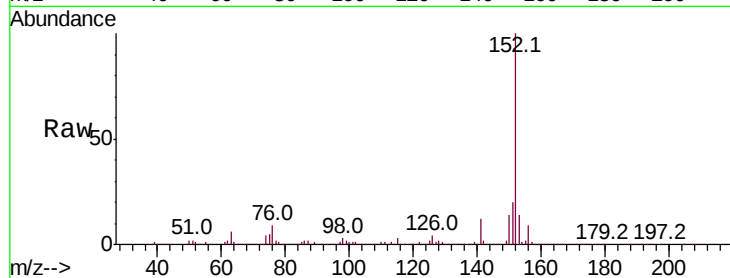
Tot Ion:152 Resp: 3537201

Ion Ratio Lower Upper

152 100

151 20.4 15.8 23.8

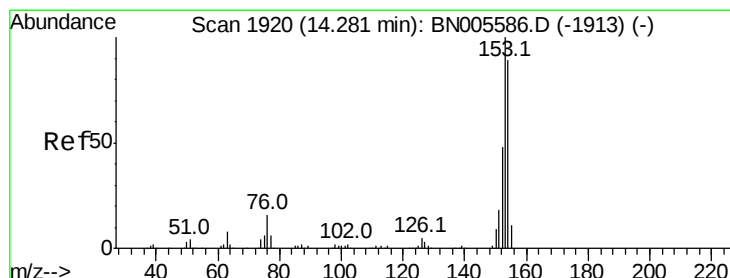
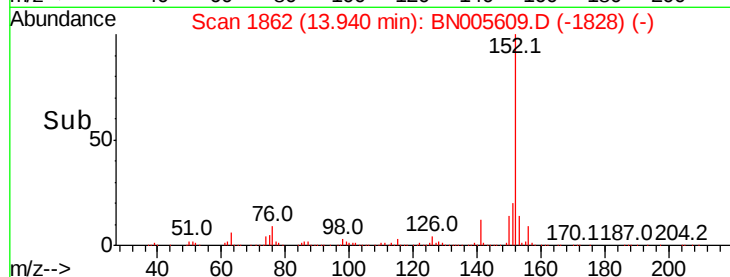
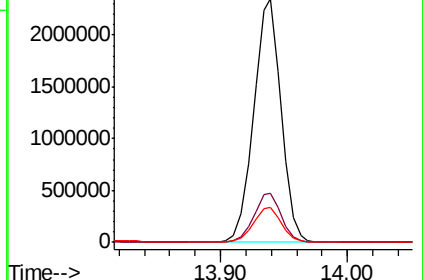
153 14.5 9.8 14.8



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: 45.737 ng/ul

RT: 14.28 min Scan# 1920

Delta R.T. -0.01 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

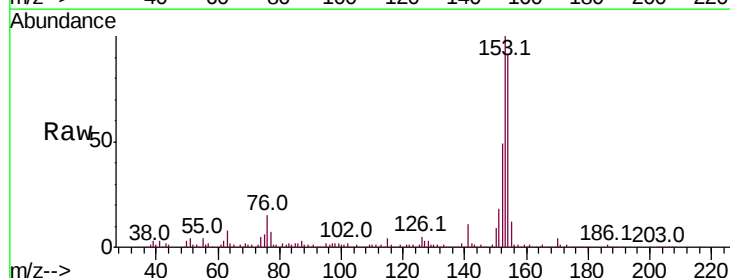
Tgt Ion:153 Resp: 521692

Ion Ratio Lower Upper

153 100

152 49.3 37.4 56.0

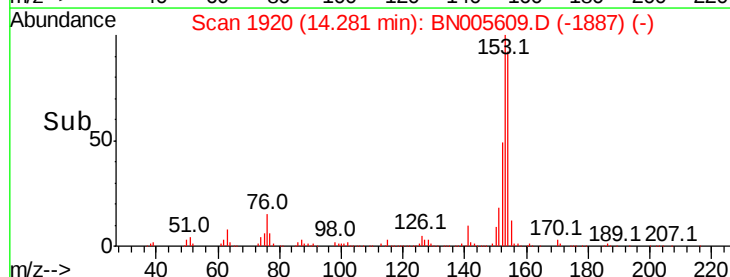
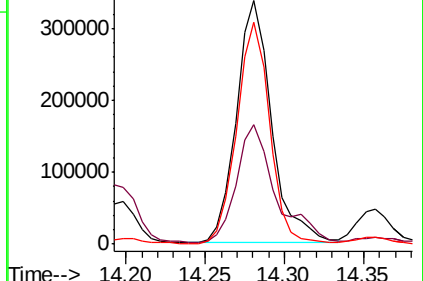
154 91.0 71.2 106.8

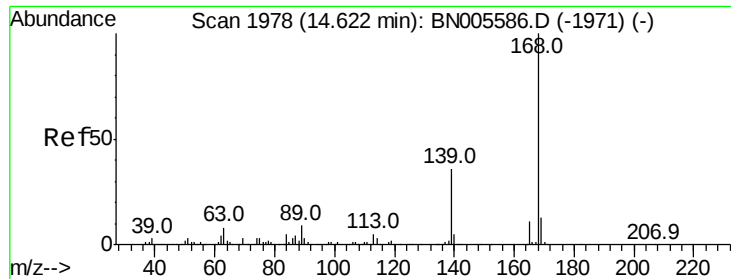


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzofuran

Concen: 81.400 ng/ul

RT: 14.62 min Scan# 1978

Delta R.T. -0.01 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

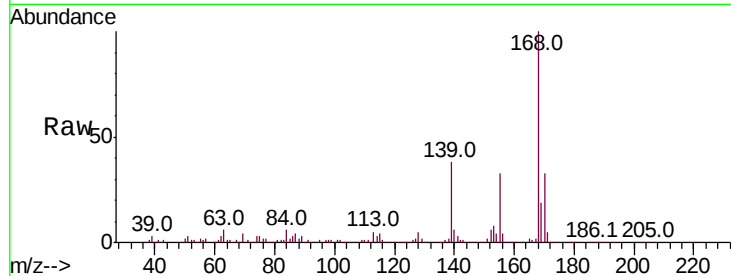
ClientSampled :

Tot Ion:168 Resp: 1336799

Ion Ratio Lower Upper

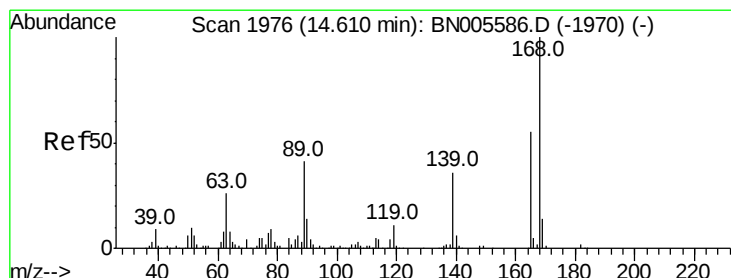
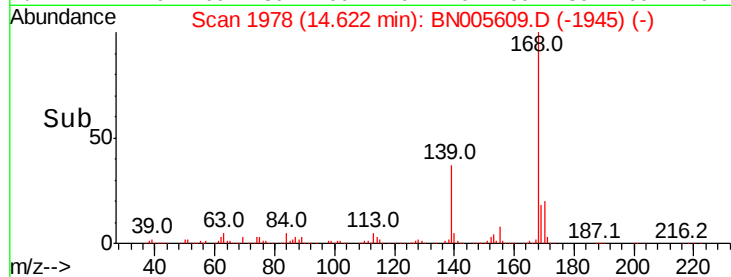
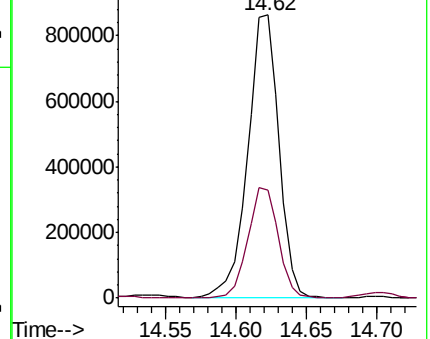
168 100

139 38.1 30.9 46.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#54

2,4-Dinitrotoluene

Concen: 6.745 ng/ul

RT: 14.59 min Scan# 1972

Delta R.T. -0.02 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

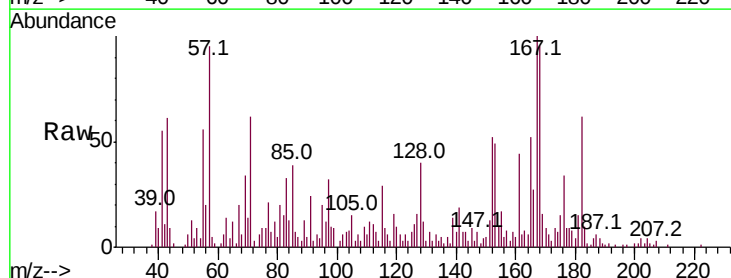
Tgt Ion:165 Resp: 23159

Ion Ratio Lower Upper

165 100

63 27.8 38.9 58.3#

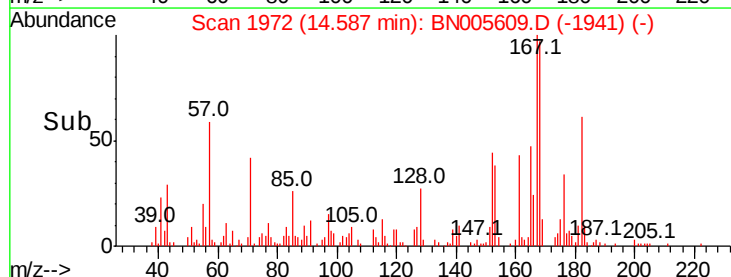
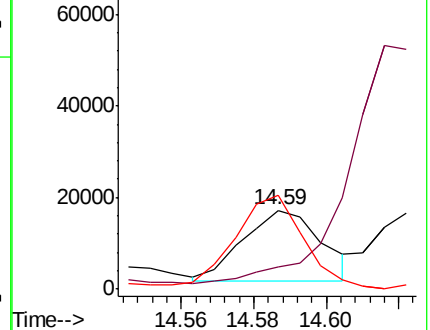
182 119.7 2.6 3.8#

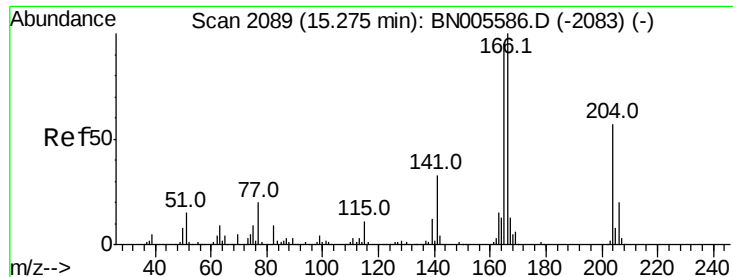


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BN0

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 230.801 ng/ul

RT: 15.27 min Scan# 2089

Delta R.T. -0.01 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

ClientSampled :

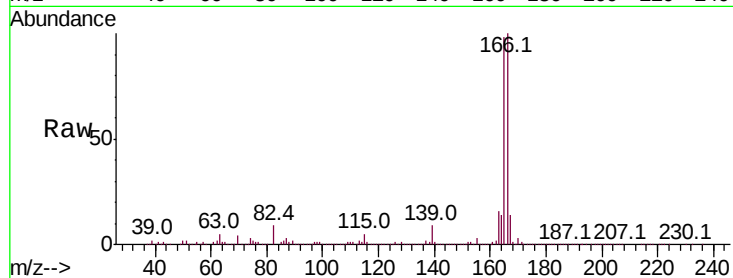
Tot Ion:166 Resp: 2957675

Ion Ratio Lower Upper

166 100

165 97.8 80.0 120.0

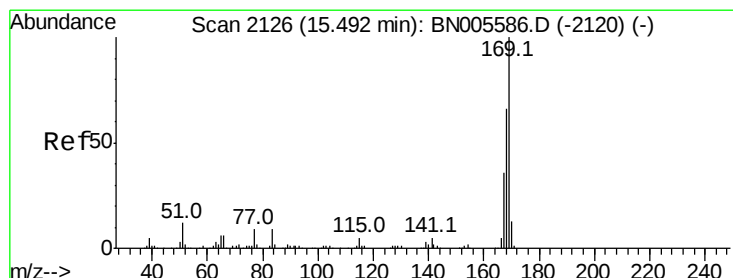
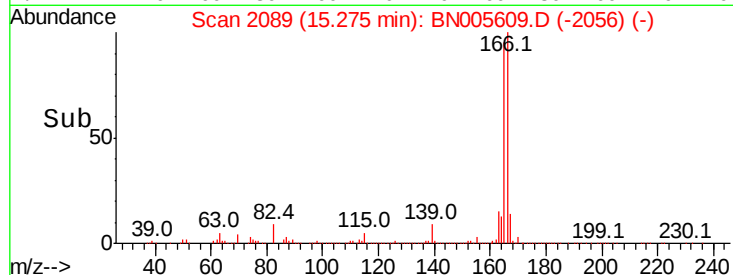
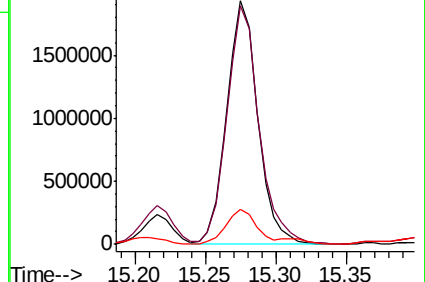
167 14.4 10.7 16.1



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



#64

N-Nitrosodiphenylamine

Concen: 7.488 ng/ul

RT: 15.49 min Scan# 2126

Delta R.T. -0.01 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

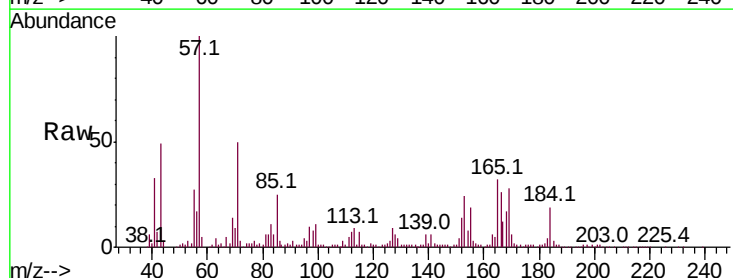
Tgt Ion:169 Resp: 68466

Ion Ratio Lower Upper

169 100

168 60.8 52.2 78.2

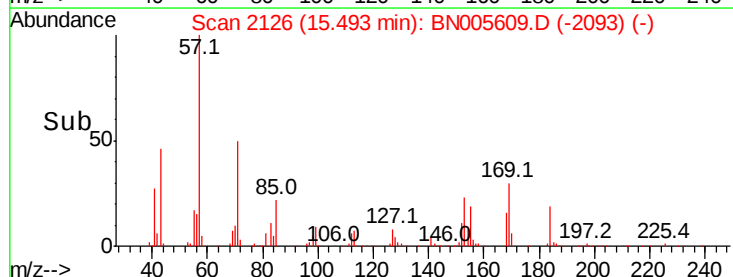
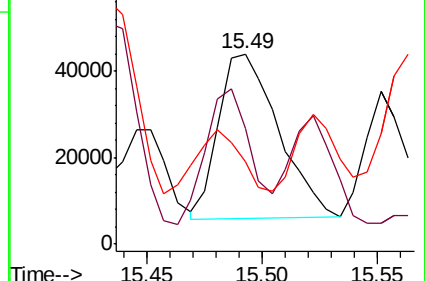
167 43.0 27.7 41.5#

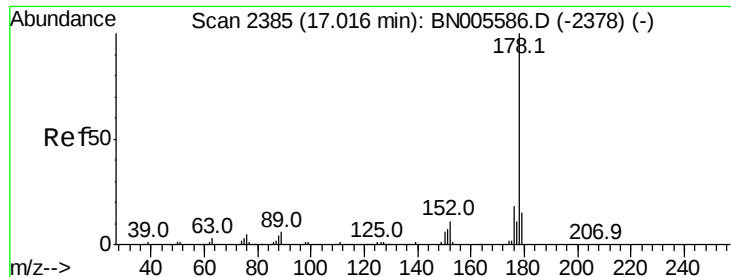


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 729.754 ng/ul

RT: 17.03 min Scan# 2387

Delta R.T. 0.01 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

ClientSampled :

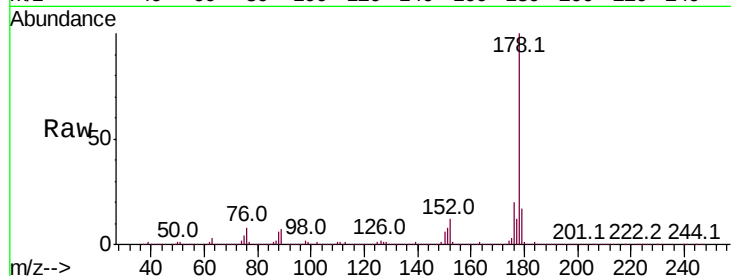
Tot Ion:178 Resp:11873275

Ion Ratio Lower Upper

178 100

179 16.9 12.2 18.4

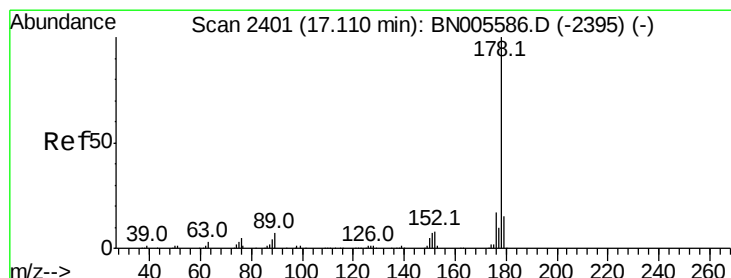
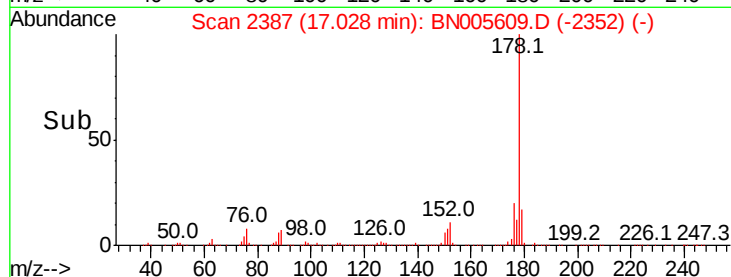
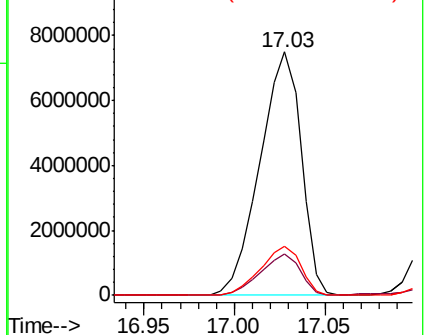
176 20.4 15.1 22.7



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: 198.991 ng/ul

RT: 17.11 min Scan# 2401

Delta R.T. 0.00 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

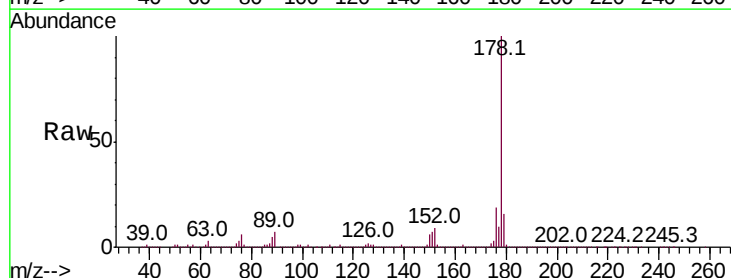
Tgt Ion:178 Resp: 3298152

Ion Ratio Lower Upper

178 100

179 15.7 12.3 18.5

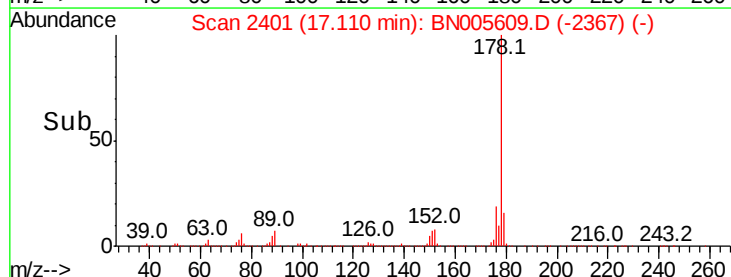
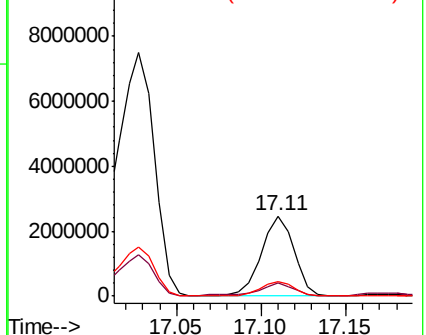
176 18.7 15.1 22.7

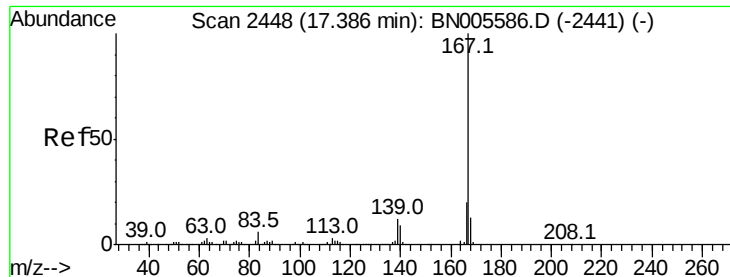


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 21.984 ng/ul

RT: 17.38 min Scan# 2447

Delta R.T. -0.01 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

ClientSampleId :

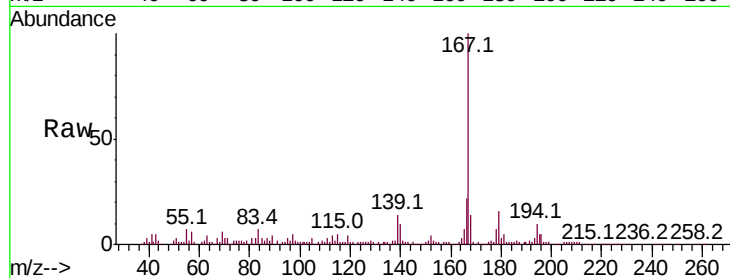
Tot Ion:167 Resp: 313008

Ion Ratio Lower Upper

167 100

166 21.8 17.2 25.8

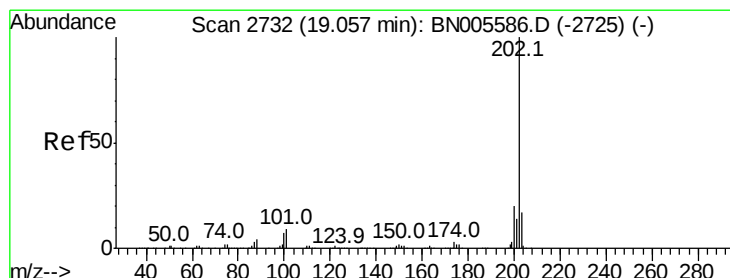
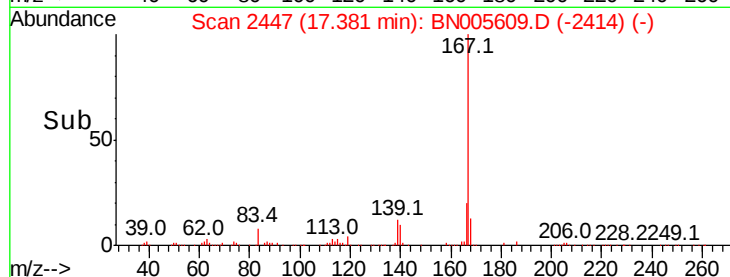
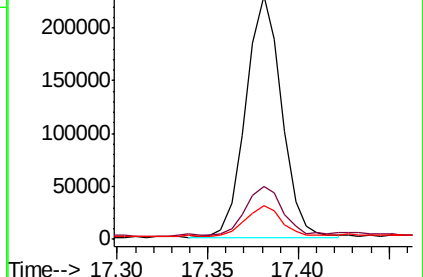
139 13.9 10.6 16.0



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: 323.498 ng/ul

RT: 19.05 min Scan# 2731

Delta R.T. -0.01 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

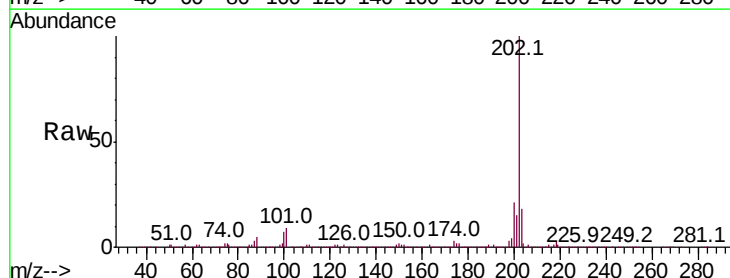
Tgt Ion:202 Resp: 5838089

Ion Ratio Lower Upper

202 100

101 8.8 8.6 12.8

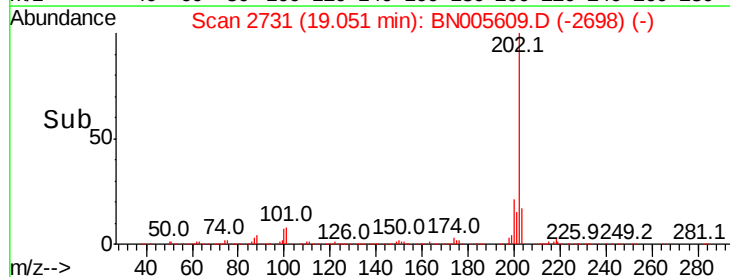
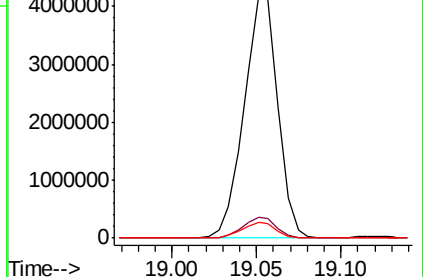
100 6.7 6.3 9.5

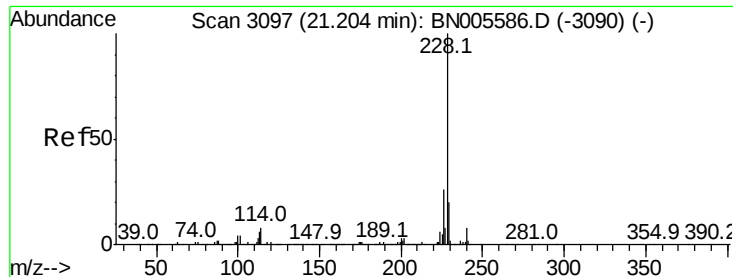


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

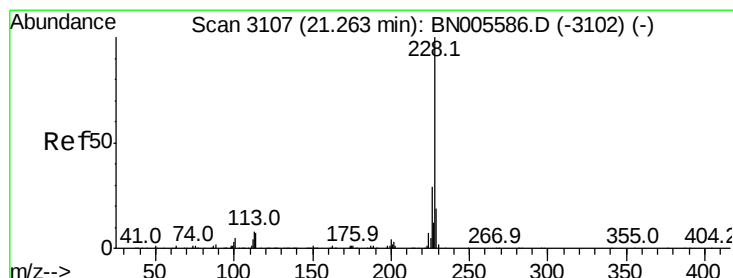
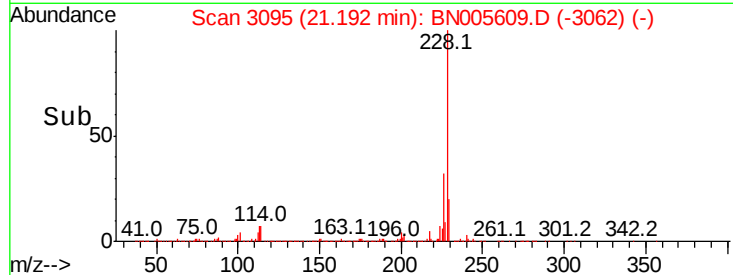
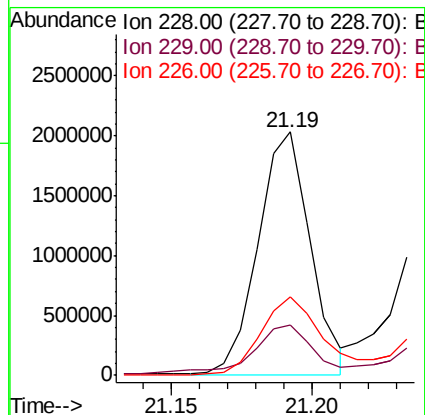
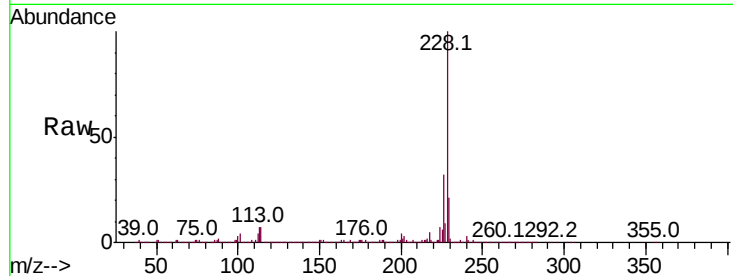




#82
Benzo(a)anthracene
Concen: 151.412 ng/ul
RT: 21.19 min Scan# 3095
Delta R.T. -0.01 min
Lab File: BN005609.D
Acq: 11 May 2019 03:45

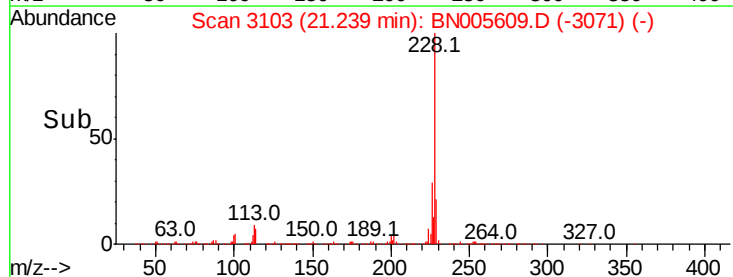
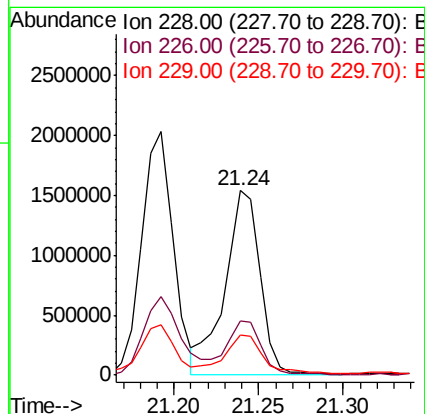
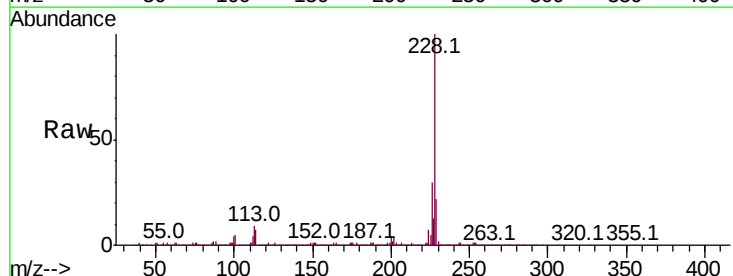
Instrument :
BNA_N
ClientSampleId :

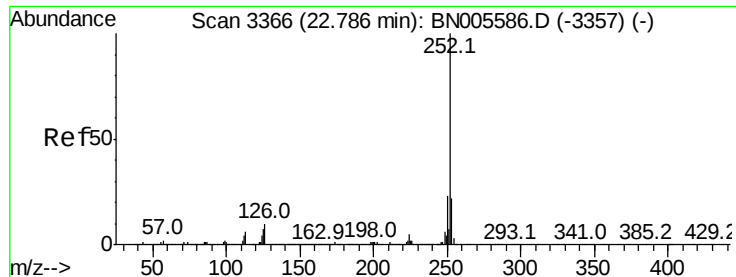
Tot Ion:228 Resp: 2604113
Ion Ratio Lower Upper
228 100
229 20.6 15.8 23.6
226 32.0 21.4 32.2



#84
Chrysene
Concen: 138.482 ng/ul
RT: 21.24 min Scan# 3103
Delta R.T. -0.01 min
Lab File: BN005609.D
Acq: 11 May 2019 03:45

Tgt Ion:228 Resp: 2210476
Ion Ratio Lower Upper
228 100
226 29.6 24.0 36.0
229 21.8 15.4 23.0

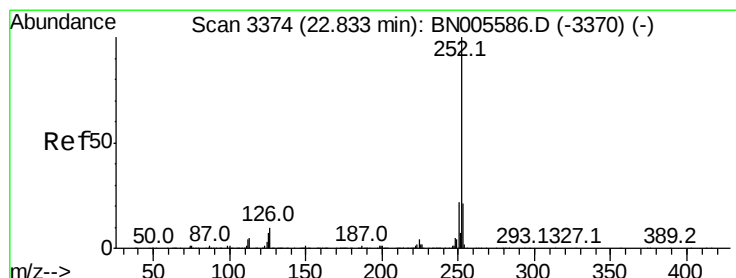
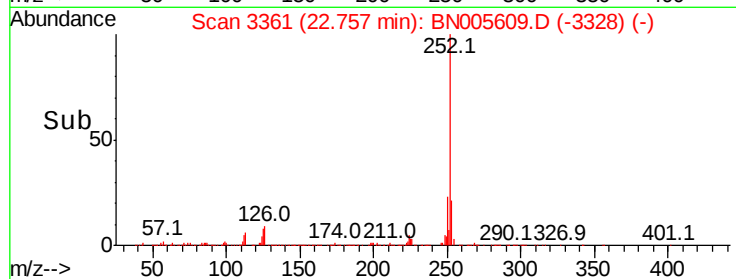
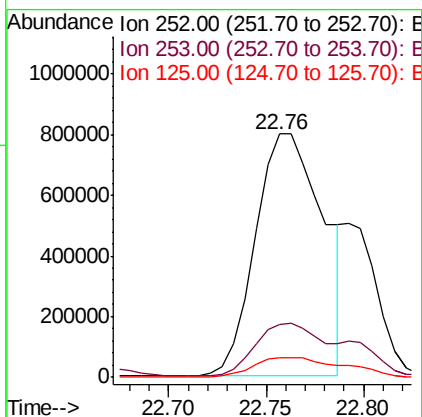
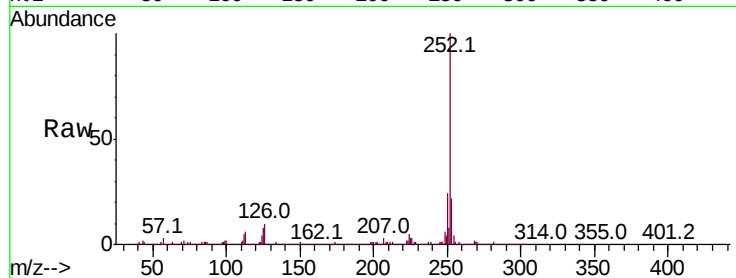




#87
Benzo(b)fluoranthene
Concen: 105.545 ng/ul
RT: 22.76 min Scan# 3361
Delta R.T. -0.01 min
Lab File: BN005609.D
Acq: 11 May 2019 03:45

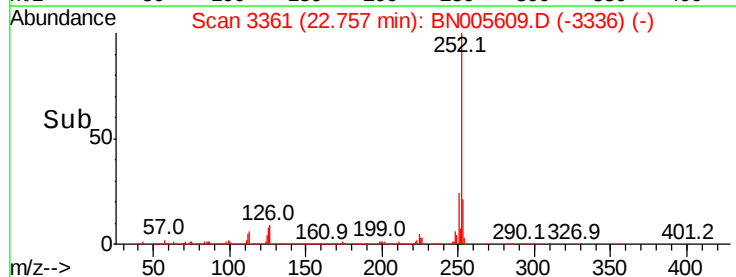
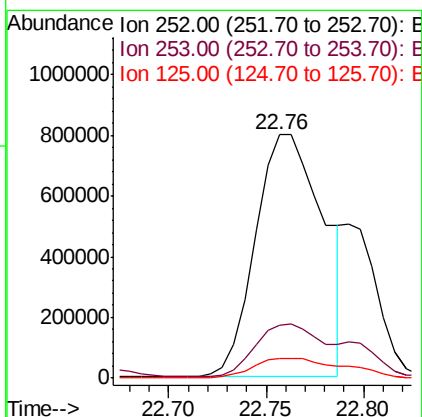
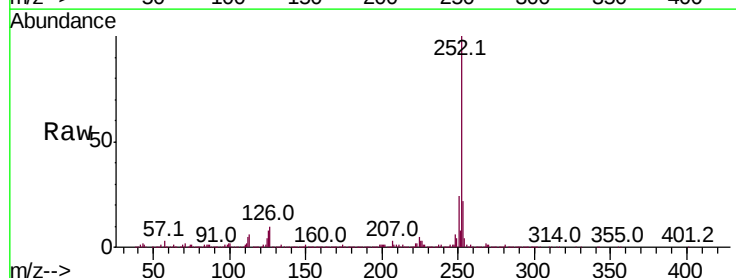
Instrument :
BNA_N
ClientSampleId :

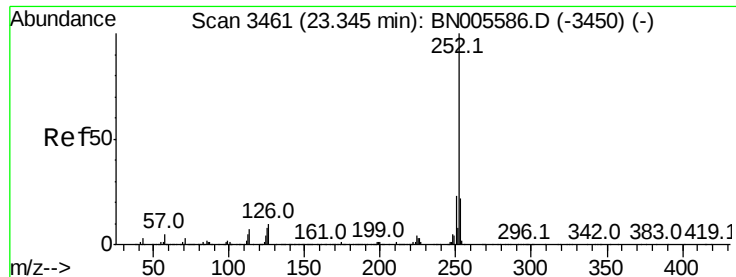
Tot Ion:252 Resp: 1928880
Ion Ratio Lower Upper
252 100
253 21.6 17.7 26.5
125 8.1 8.4 12.6#



#88
Benzo(k)fluoranthene
Concen: 110.511 ng/ul
RT: 22.76 min Scan# 3361
Delta R.T. -0.05 min
Lab File: BN005609.D
Acq: 11 May 2019 03:45

Tgt Ion:252 Resp: 1928880
Ion Ratio Lower Upper
252 100
253 21.6 17.4 26.0
125 8.1 7.5 11.3





#90

Benzo(a)pyrene

Concen: 54.811 ng/ul

RT: 23.22 min Scan# 3440

Delta R.T. -0.11 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

ClientSampleId :

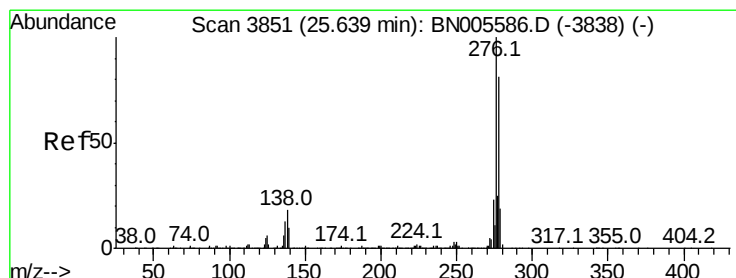
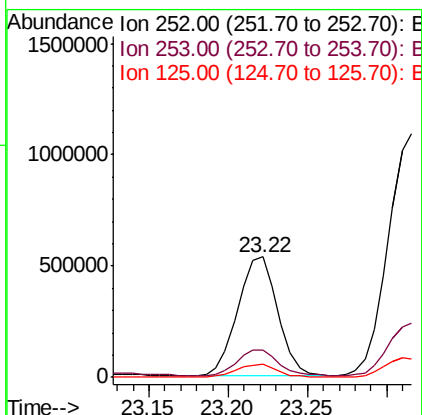
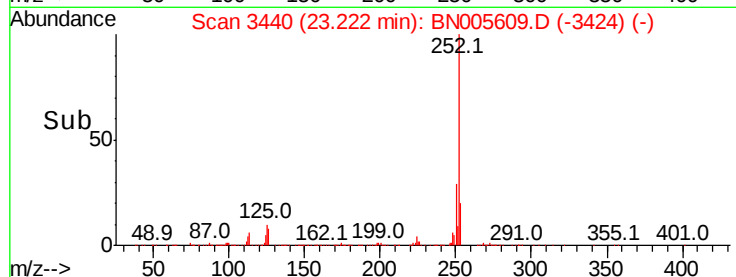
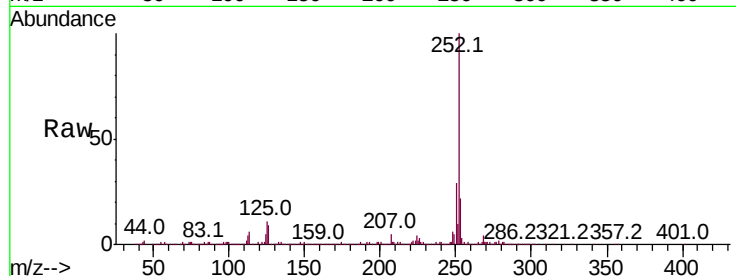
Tot Ion:252 Resp: 941538

Ion Ratio Lower Upper

252 100

253 22.5 17.3 25.9

125 10.5 8.6 13.0



#91

Indeno(1,2,3-cd)pyrene

Concen: 44.039 ng/ul

RT: 25.59 min Scan# 3843

Delta R.T. -0.02 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

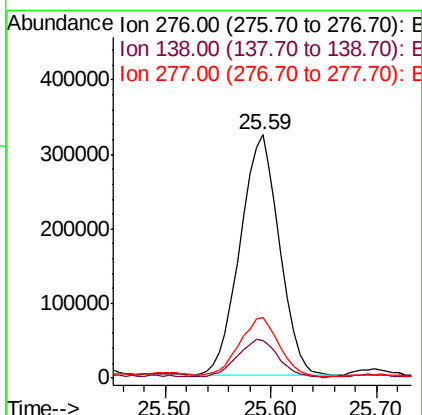
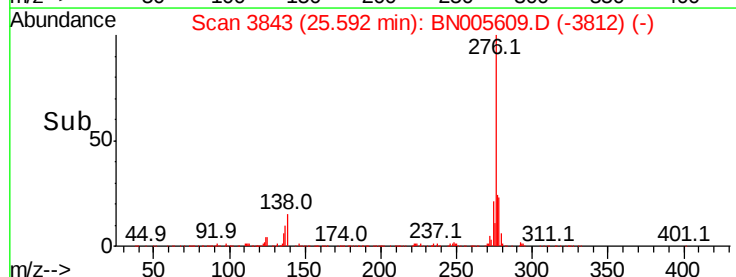
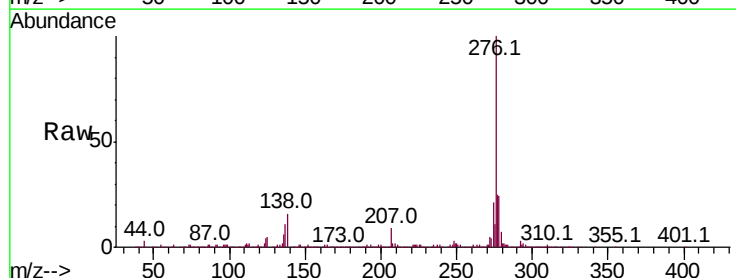
Tgt Ion:276 Resp: 836407

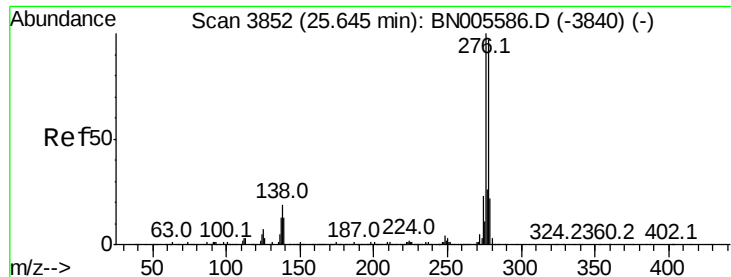
Ion Ratio Lower Upper

276 100

138 15.6 17.9 26.9#

277 24.9 19.7 29.5





#92

Dibenzo(a,h)anthracene

Concen: 15.195 ng/ul

RT: 25.59 min Scan# 3843

Delta R.T. -0.03 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

Instrument :

BNA_N

ClientSampled :

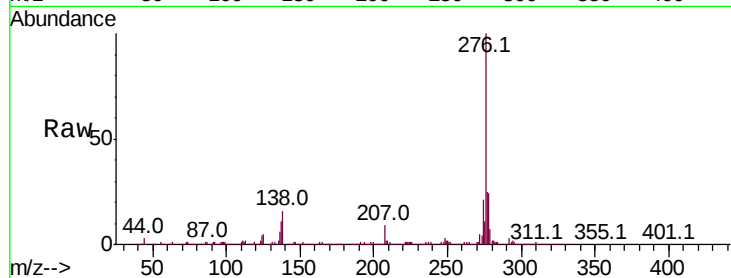
Tot Ion:278 Resp: 244919

Ion Ratio Lower Upper

278 100

139 0.0 13.1 19.7#

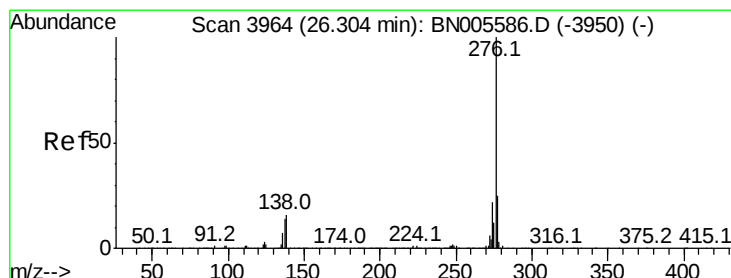
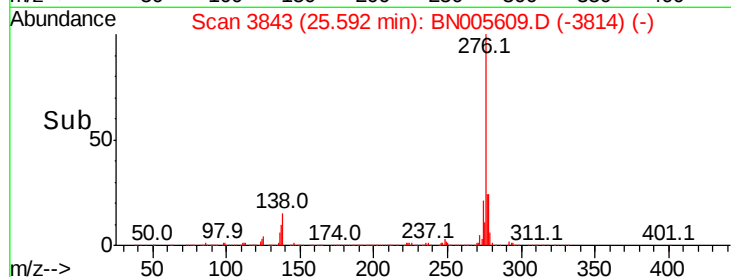
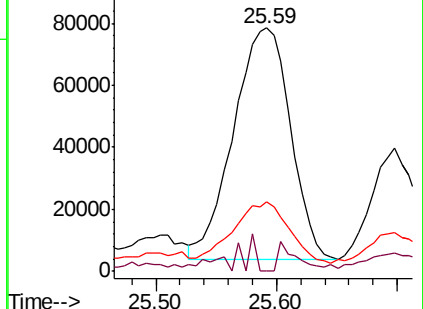
279 28.4 19.4 29.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#93

Benzo(g,h,i)perylene

Concen: 49.428 ng/ul

RT: 26.26 min Scan# 3956

Delta R.T. -0.02 min

Lab File: BN005609.D

Acq: 11 May 2019 03:45

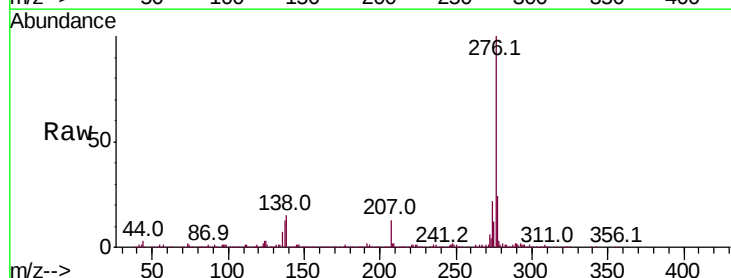
Tgt Ion:276 Resp: 776212

Ion Ratio Lower Upper

276 100

138 15.4 16.7 25.1#

277 24.2 18.2 27.2



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

