

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN043019\
 Data File : BN005384.D
 Acq On : 30 Apr 2019 22:32
 Operator : JU/SJ
 Sample : K2481-17ME
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 01 00:45:28 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Apr 25 03:19:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	331494	20.00	ng/ul	0.00
18) Naphthalene-d8	10.36	136	1432611	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.23	164	949535	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.98	188	2217442	20.00	ng/ul	0.00
77) Chrysene-d12	21.20	240	2283975	20.00	ng/ul	-0.02
85) Perylene-d12	23.40	264	2359868	20.00	ng/ul	-0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	37230	5.42	ng/uL	0.00
5) Phenol-d5	6.78	99	803262	30.85	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.94	67	489830	30.16	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	660257	33.14	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	594074	29.19	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	370305	42.00	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	412116	46.10	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.98	165	698705	34.10	ng/ul	0.00
29) 4-Chloroaniline-d4	10.49	131	942522	44.60	ng/ul	0.00
43) Dimethylphthalate-d6	13.65	166	2382397	34.56	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	2890218	34.14	ng/ul	0.00
51) 4-Nitrophenol-d4	14.44	143	367765	33.79	ng/ul	0.00
57) Fluorene-d10	15.23	176	2047453	35.39	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.36	200	373194	37.42	ng/ul	0.00
70) Anthracene-d10	17.08	188	3344068	35.97	ng/ul	0.00
78) Pyrene-d10	19.39	212	3977946	34.05	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.26	264	3832926	37.17	ng/ul	-0.04

Target Compounds

					Ovalue	
4) Benzaldehyde	6.76	77	20187	1.094	ng/ul#	1
17) Hexachloroethane	8.68	117	188003	21.018	ng/ul#	6
30) 4-Chloroaniline	10.43	127	4661443	216.575	ng/ul#	10
32) Caprolactam	11.40	113	8757	1.431	ng/ul	81
34) 2-Methylnaphthalene	12.04	142	19277435	395.312	ng/ul	96
40) 1,1'-Biphenyl	13.05	154	1646781	23.276	ng/ul	98
42) 2-Nitroaniline	13.25	65	29549	2.047	ng/ul#	27
44) Dimethylphthalate	13.69	163	487072	7.092	ng/ul	100
47) Acenaphthylene	13.95	152	6765469	81.317	ng/ul#	97
49) Acenaphthene	14.29	153	576902	10.157	ng/ul	99
53) Dibenzofuran	14.63	168	820362	10.032	ng/ul	95
54) 2,4-Dinitrotoluene	14.60	165	54824	3.207	ng/ul#	58
58) Fluorene	15.29	166	3454284	54.132	ng/ul	98
60) 4-Nitroaniline	15.29	138	38893	2.830	ng/ul#	15
64) N-Nitrosodiphenylamine	15.50	169	63661	1.049	ng/ul#	28
69) Phenanthrene	17.03	178	13850443	128.253	ng/ul	93
71) Anthracene	17.12	178	3173494	28.847	ng/ul	99
76) Fluoranthene	19.05	202	3107277	25.941	ng/ul	98
79) Pyrene	19.42	202	4881437	33.194	ng/ul	97
82) Benzo(a)anthracene	21.24	228	1572087	11.064	ng/ul	96
84) Chrysene	21.24	228	1584773	12.018	ng/ul	98
87) Benzo(b)fluoranthene	22.74	252	862644	6.503	ng/ul	96
88) Benzo(k)fluoranthene	22.74	252	862644	6.809	ng/ul	97

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QLast Update : Thu Apr 25 03:19:34 2019
Response via : Initial Calibration

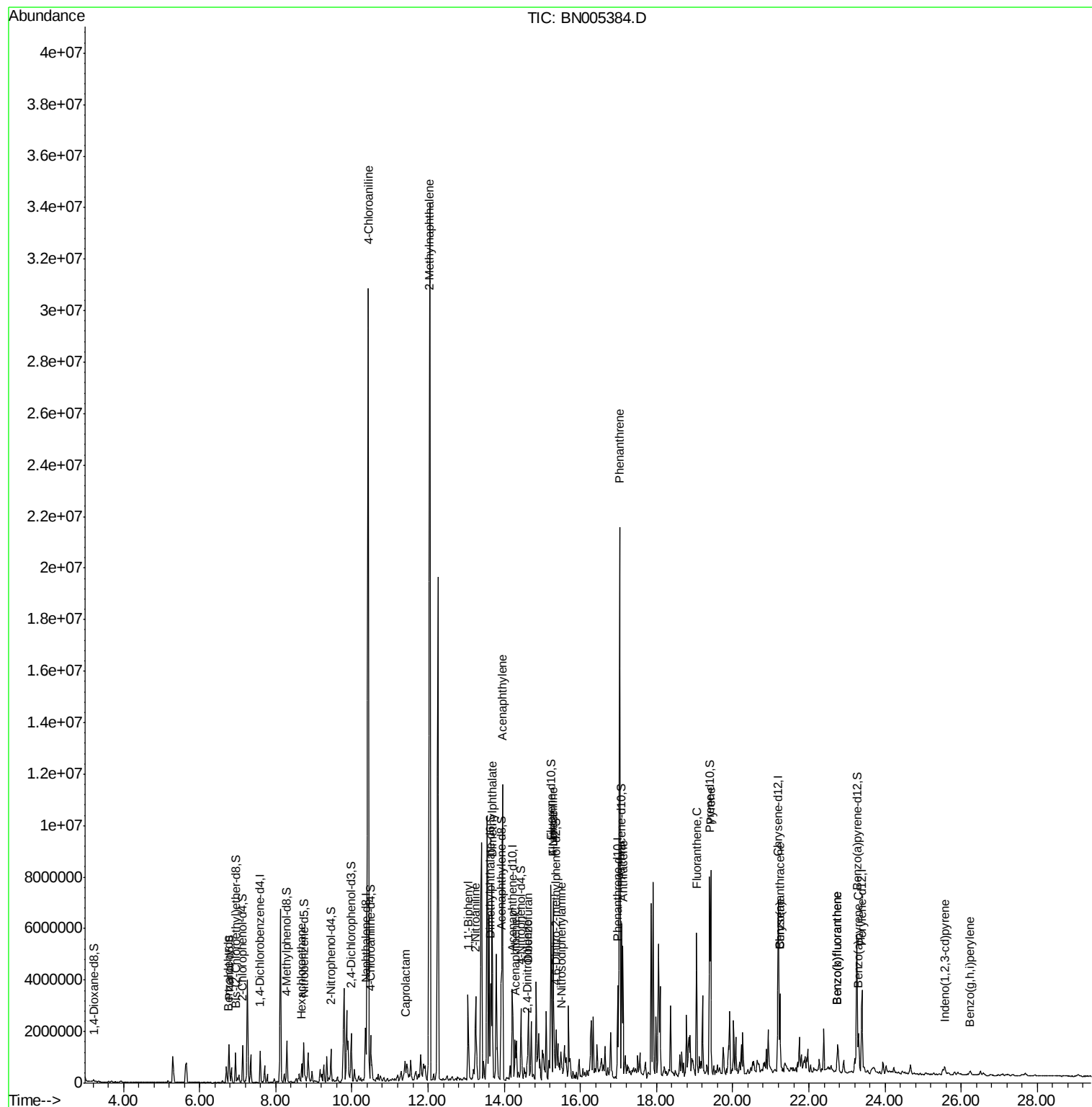
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Benzo(a)pyrene	23.30	252	991535	7.952	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.57	276	273520	1.984	ng/ul	95
93) Benzo(g,h,i)perylene	26.23	276	192795	1.691	ng/ul	97

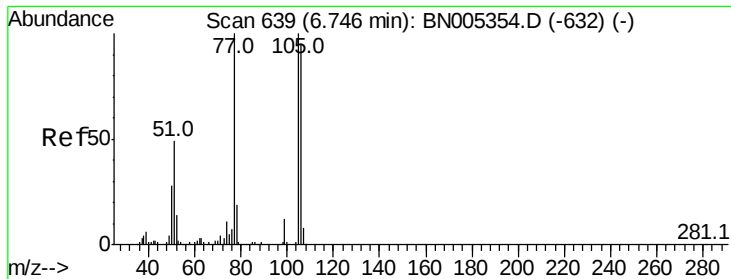
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.094 ng/ul

RT: 6.76 min Scan# 641

Delta R.T. 0.01 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA_N

ClientSampleId :

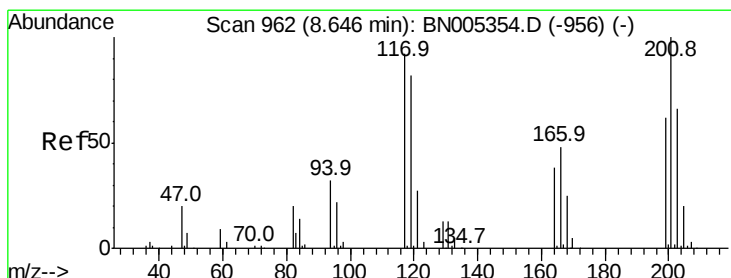
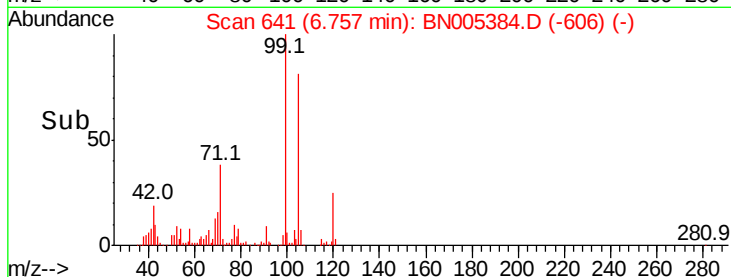
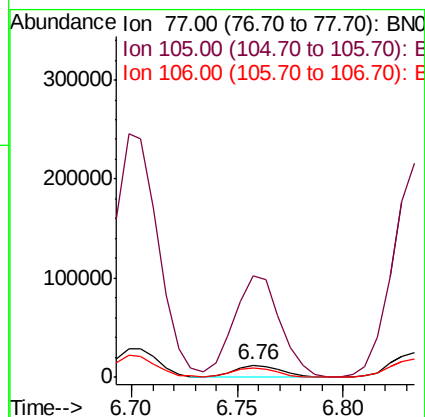
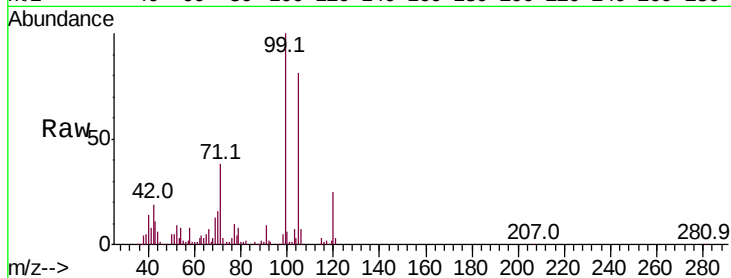
Tot Ion: 77 Resp: 20187

Ion Ratio Lower Upper

77 100

105 830.4 77.4 116.2#

106 76.6 76.3 114.5



#17

Hexachloroethane

Concen: 21.018 ng/ul

RT: 8.68 min Scan# 968

Delta R.T. 0.02 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

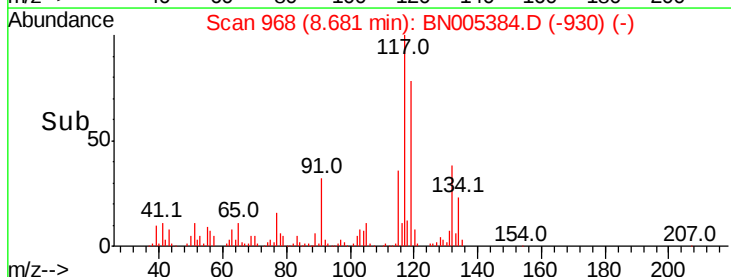
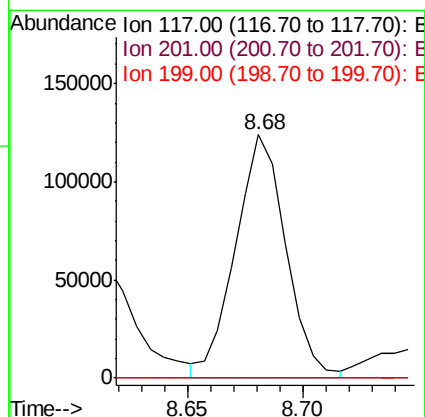
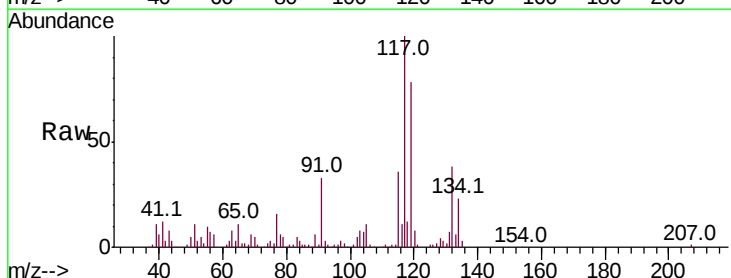
Tgt Ion: 117 Resp: 188003

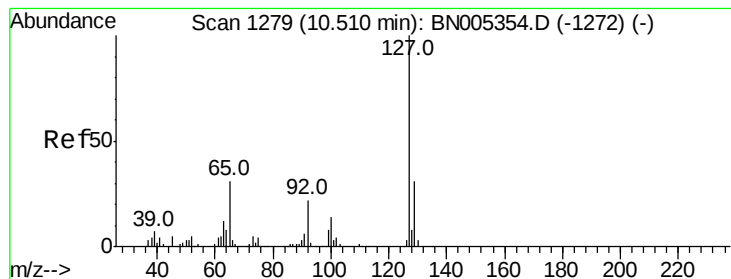
Ion Ratio Lower Upper

117 100

201 0.0 84.1 126.1#

199 0.0 51.2 76.8#





#30

4-Chloroaniline

Concen: 216.575 ng/ul

RT: 10.43 min Scan# 1265

Delta R.T. -0.09 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA_N

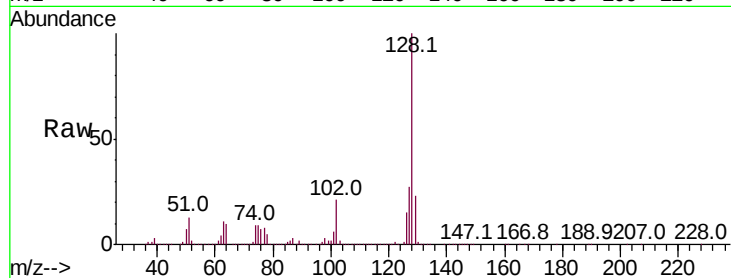
ClientSampled :

Tot Ion:127 Resp: 4661443

Ion Ratio Lower Upper

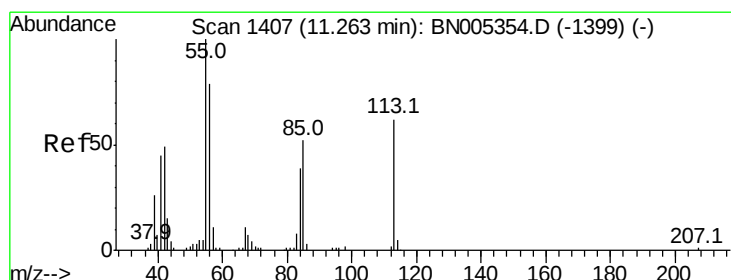
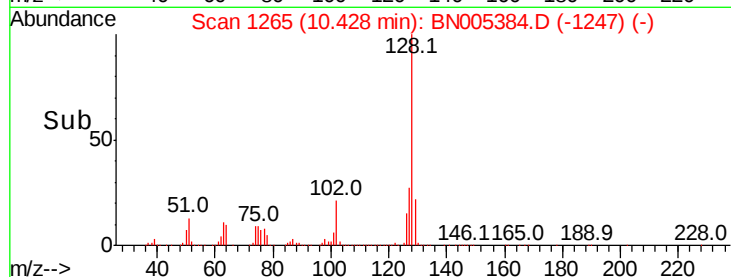
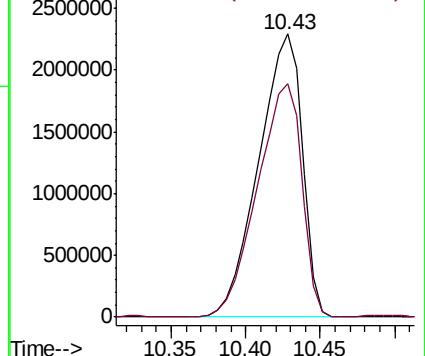
127 100

129 82.6 25.8 38.6#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E



#32

Caprolactam

Concen: 1.431 ng/ul

RT: 11.40 min Scan# 1430

Delta R.T. 0.13 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

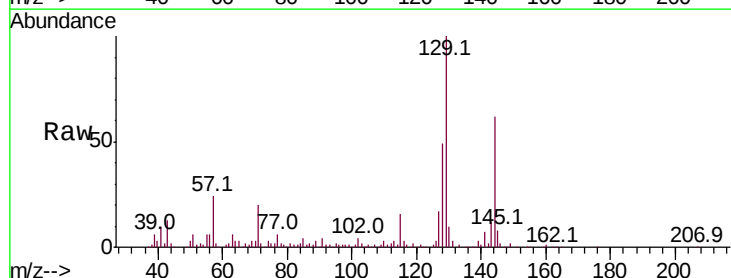
Tgt Ion:113 Resp: 8757

Ion Ratio Lower Upper

113 100

55 165.4 157.0 235.4

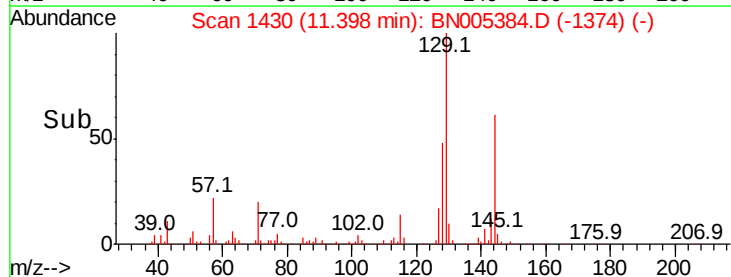
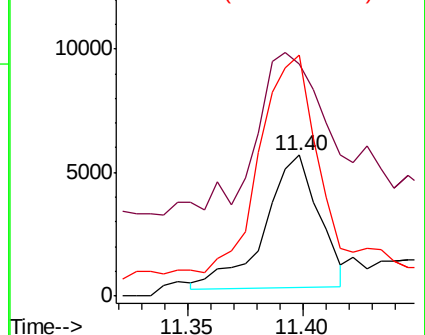
56 171.5 119.1 178.7

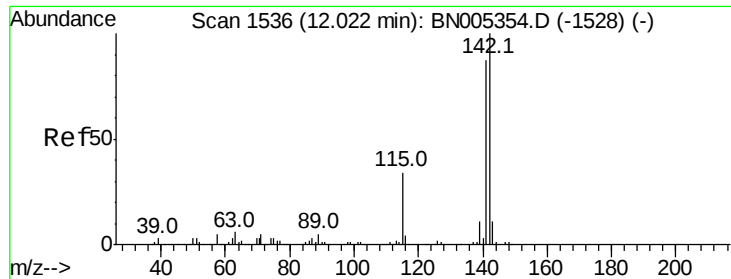


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNC

Ion 56.00 (55.70 to 56.70): BNC

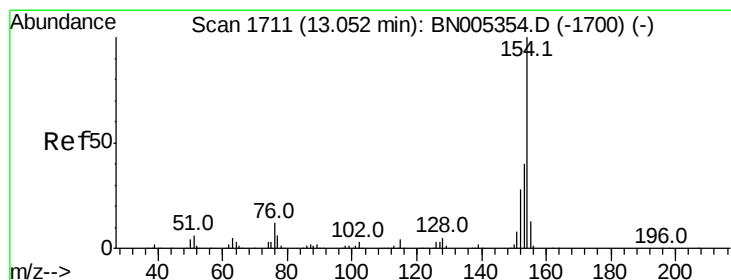
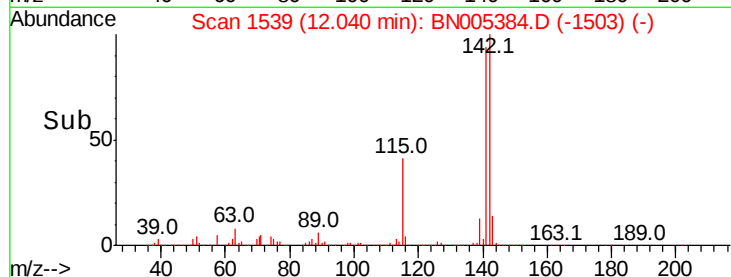
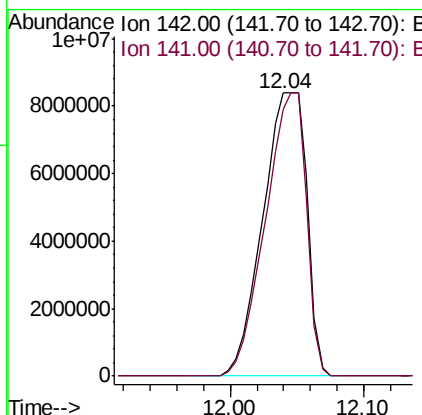
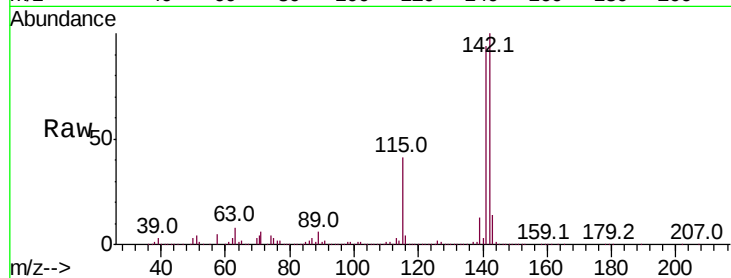




#34
 2-Methylnaphthalene
 Concen: 395.312 ng/ul
 RT: 12.04 min Scan# 1539
 Delta R.T. 0.01 min
 Lab File: BN005384.D
 Acq: 30 Apr 2019 22:32

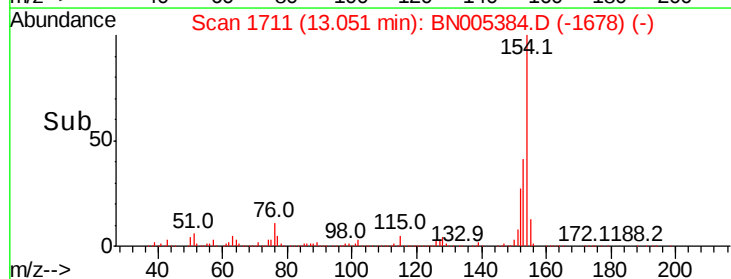
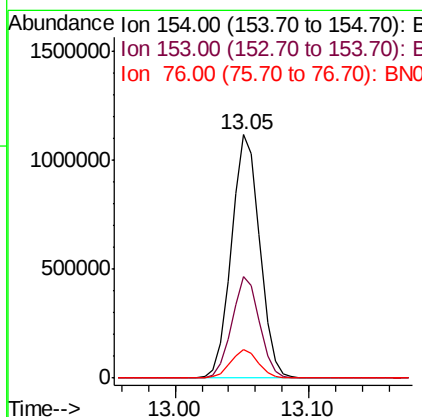
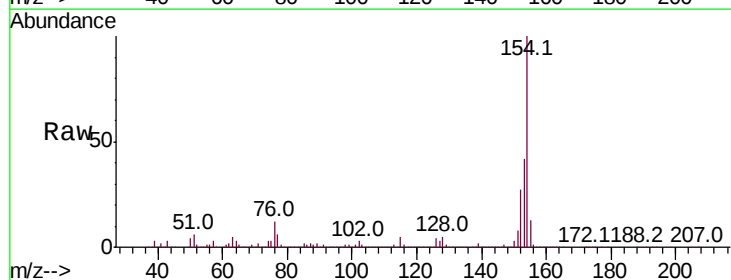
Instrument :
 BNA_N
 ClientSampled :

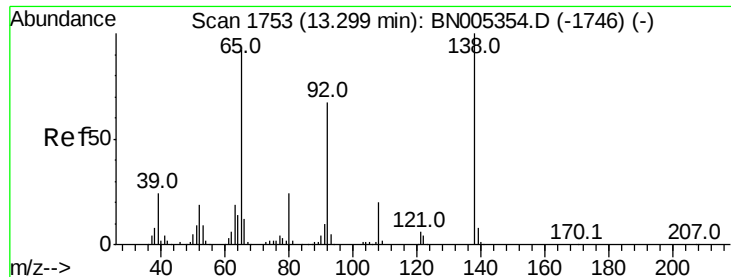
Tot Ion:142 Resp:19277435
 Ion Ratio Lower Upper
 142 100
 141 94.0 72.0 108.0



#40
 1,1'-Biphenyl
 Concen: 23.276 ng/ul
 RT: 13.05 min Scan# 1711
 Delta R.T. -0.01 min
 Lab File: BN005384.D
 Acq: 30 Apr 2019 22:32

Tgt Ion:154 Resp: 1646781
 Ion Ratio Lower Upper
 154 100
 153 41.5 32.6 49.0
 76 11.5 10.4 15.6





#42

2-Nitroaniline

Concen: 2.047 ng/ul

RT: 13.25 min Scan# 1744

Delta R.T. -0.06 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA_N

ClientSampleId :

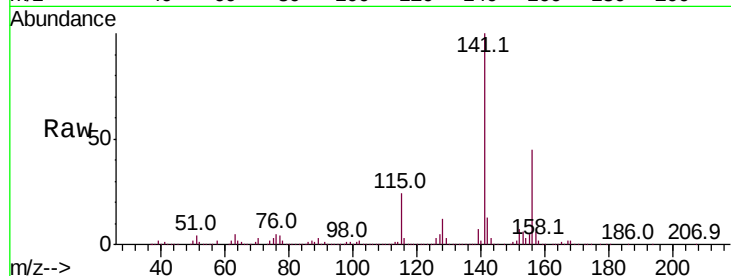
Tot Ion: 65 Resp: 29549

Ion Ratio Lower Upper

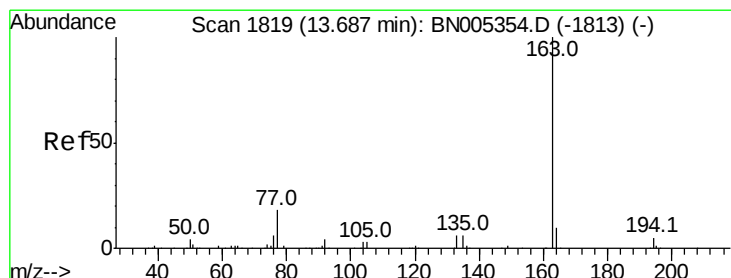
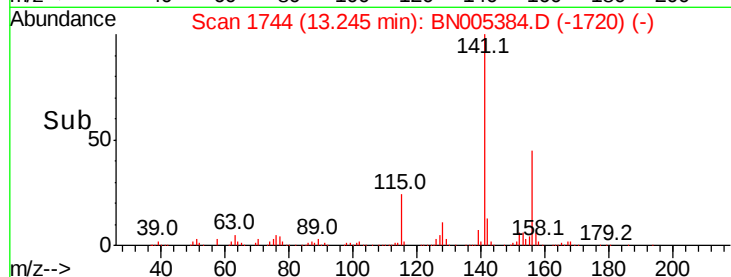
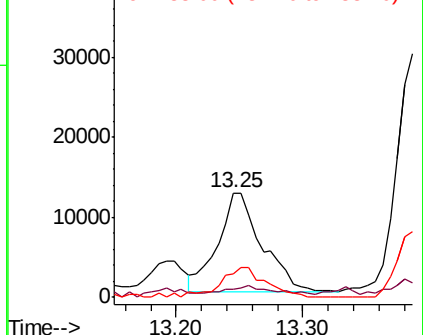
65 100

92 7.9 51.6 77.4#

138 21.8 73.9 110.9#



Abundance Ion 65.00 (64.70 to 65.70): BNO
Ion 92.00 (91.70 to 92.70): BNO
Ion 138.00 (137.70 to 138.70): BNO



#44

Dimethylphthalate

Concen: 7.092 ng/ul

RT: 13.69 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

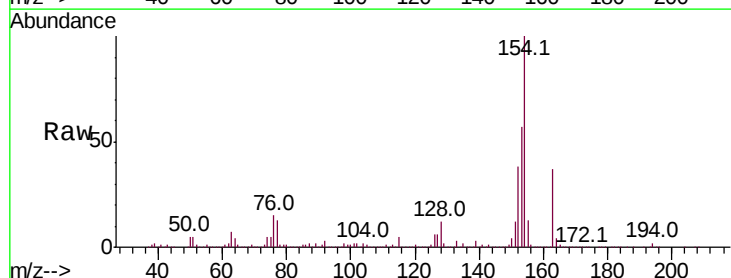
Tgt Ion:163 Resp: 487072

Ion Ratio Lower Upper

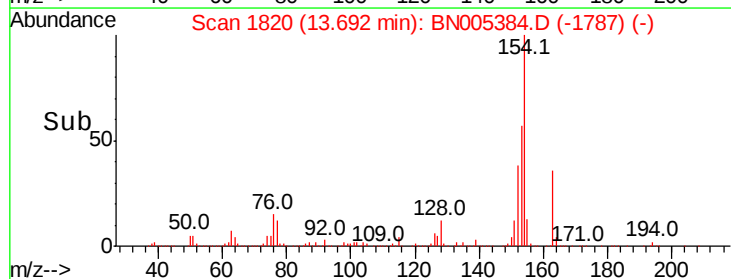
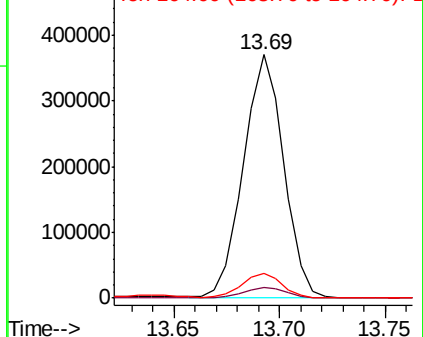
163 100

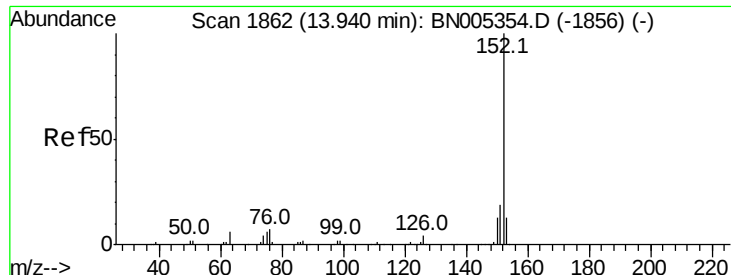
194 4.3 3.4 5.0

164 10.2 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

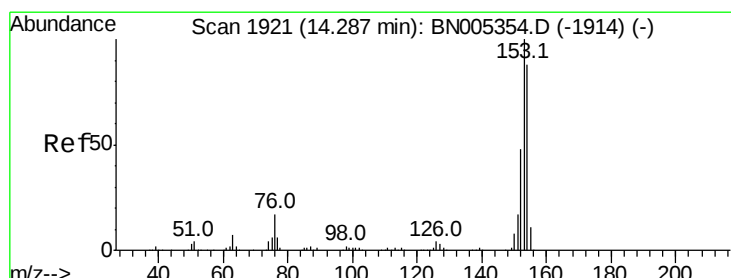
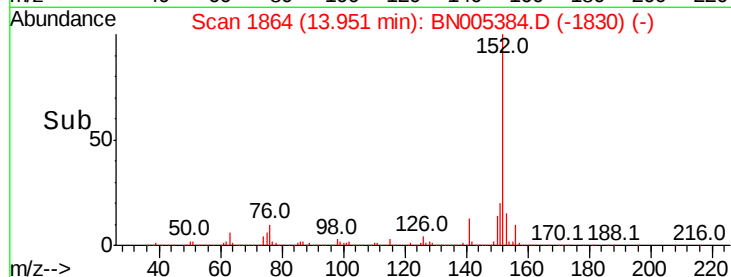
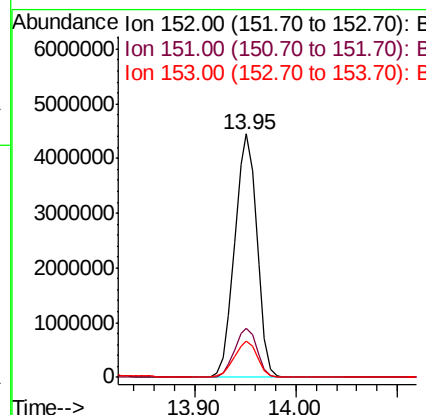
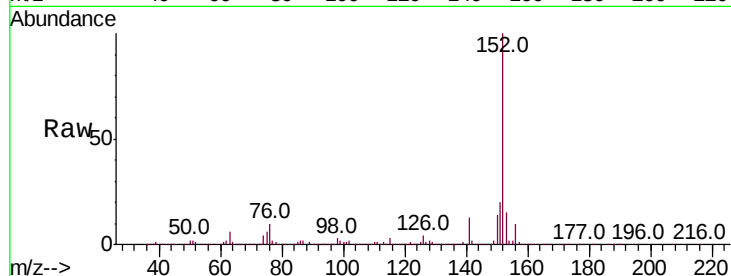




#47
Acenaphthylene
Concen: 81.317 ng/ul
RT: 13.95 min Scan# 1864
Delta R.T. 0.00 min
Lab File: BN005384.D
Acq: 30 Apr 2019 22:32

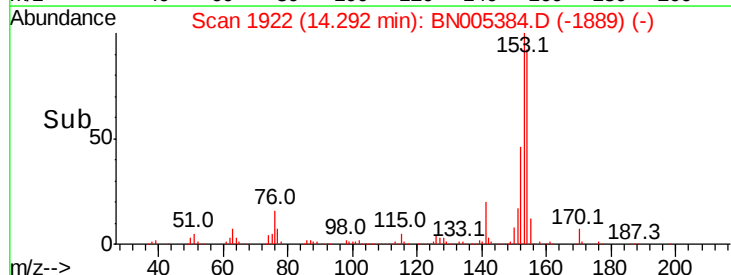
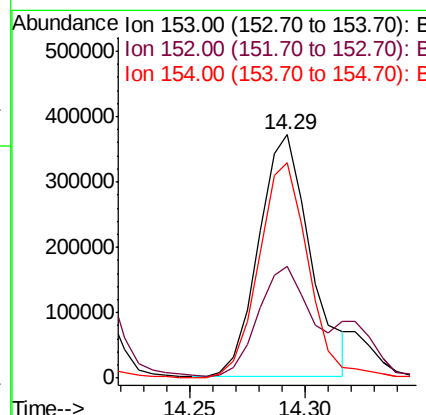
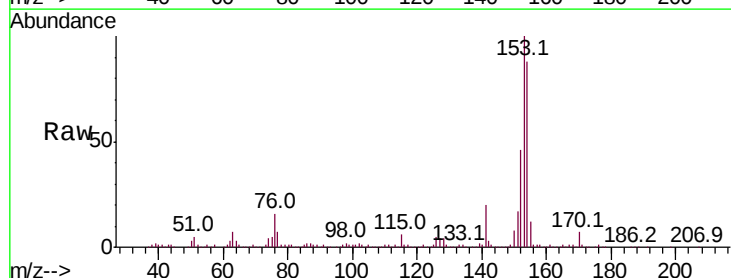
Instrument :
BNA_N
ClientSampleId :

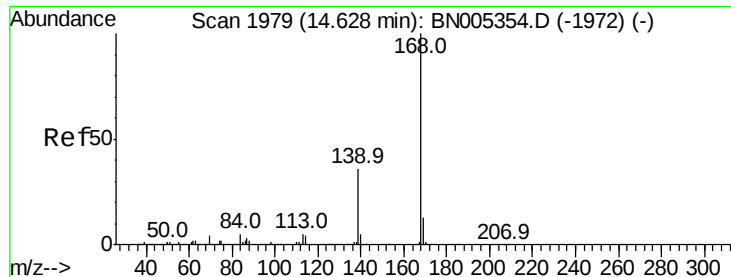
Tot Ion:152 Resp: 6765469
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.8
153 15.1 9.8 14.8#



#49
Acenaphthene
Concen: 10.157 ng/ul
RT: 14.29 min Scan# 1922
Delta R.T. -0.01 min
Lab File: BN005384.D
Acq: 30 Apr 2019 22:32

Tgt Ion:153 Resp: 576902
Ion Ratio Lower Upper
153 100
152 46.1 37.4 56.0
154 88.3 71.2 106.8





#53

Dibenzofuran

Concen: 10.032 ng/ul

RT: 14.63 min Scan# 1979

Delta R.T. -0.01 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA_N

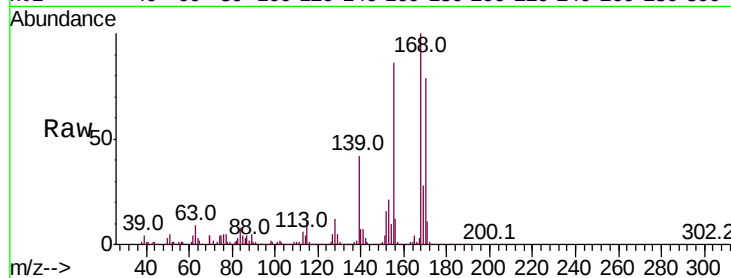
ClientSampled :

Tot Ion:168 Resp: 820362

Ion Ratio Lower Upper

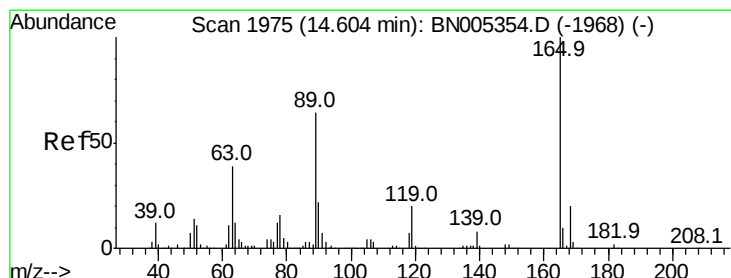
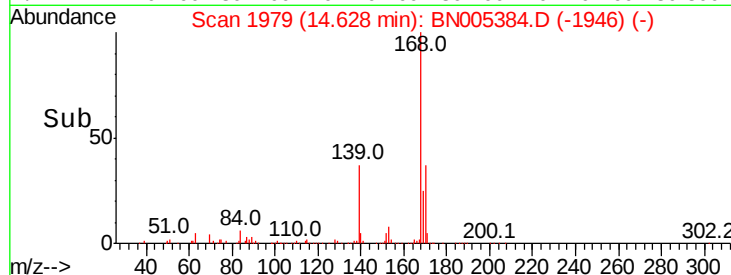
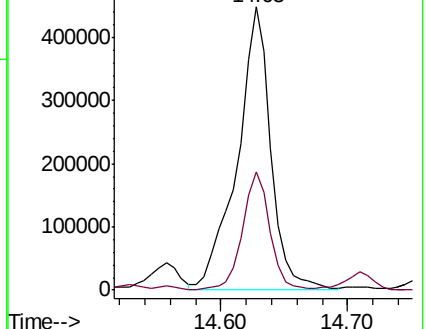
168 100

139 41.9 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: 3.207 ng/ul

RT: 14.60 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

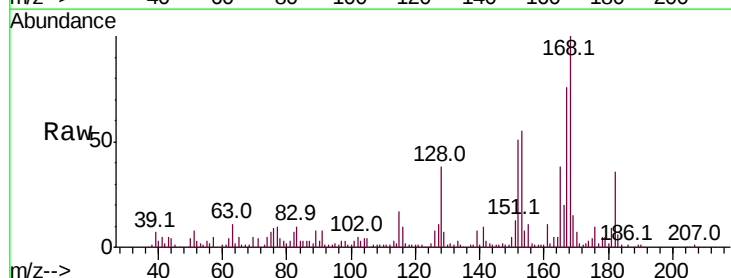
Tgt Ion:165 Resp: 54824

Ion Ratio Lower Upper

165 100

63 30.2 38.9 58.3#

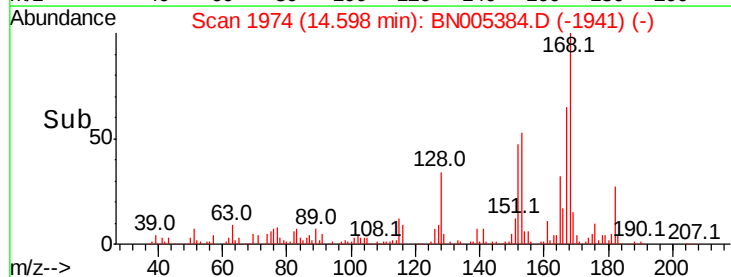
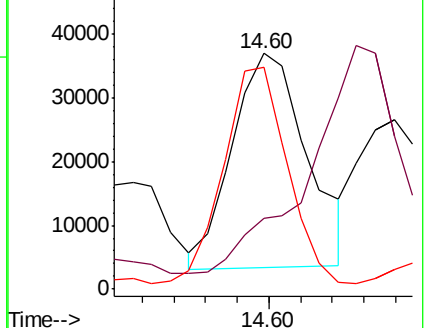
182 94.4 2.6 3.8#

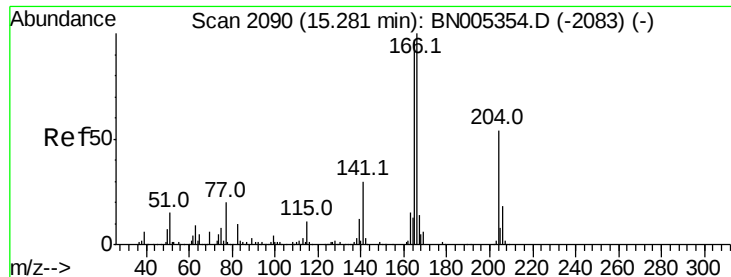


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BNC

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 54.132 ng/ul

RT: 15.29 min Scan# 2091

Delta R.T. 0.00 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA_N

ClientSampled :

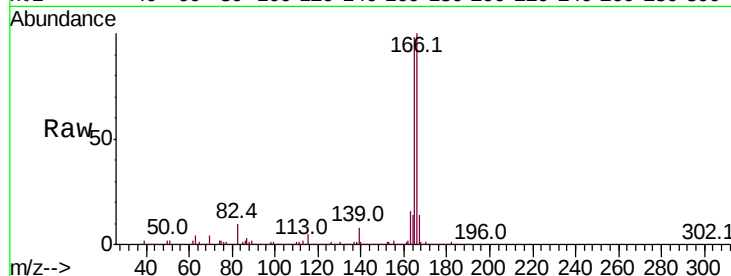
Tot Ion:166 Resp: 3454284

Ion Ratio Lower Upper

166 100

165 97.6 80.0 120.0

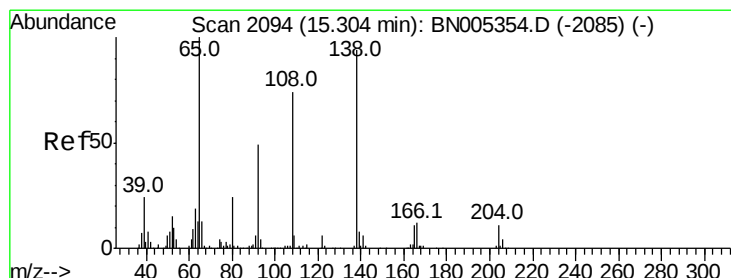
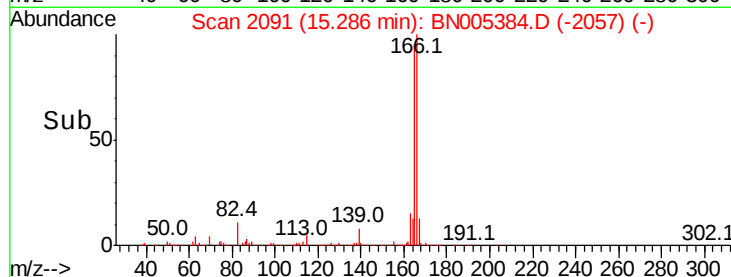
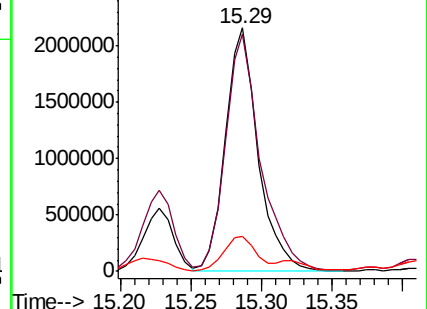
167 14.2 10.7 16.1



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



#60

4-Nitroaniline

Concen: 2.830 ng/ul

RT: 15.29 min Scan# 2091

Delta R.T. -0.02 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

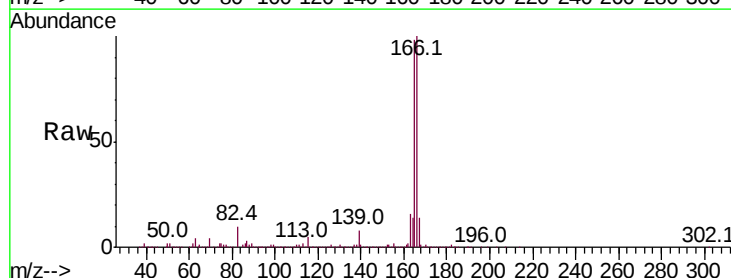
Tgt Ion:138 Resp: 38893

Ion Ratio Lower Upper

138 100

92 1.9 45.3 67.9#

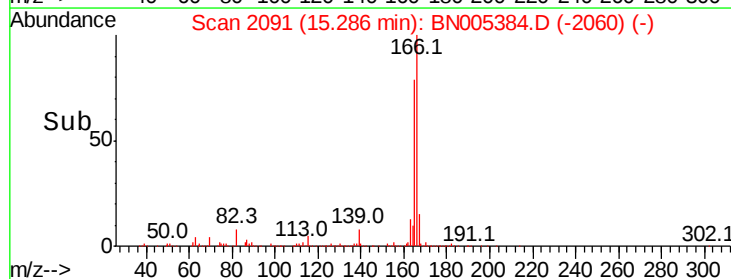
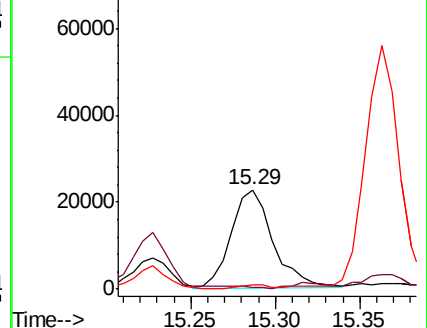
108 4.6 73.2 109.8#

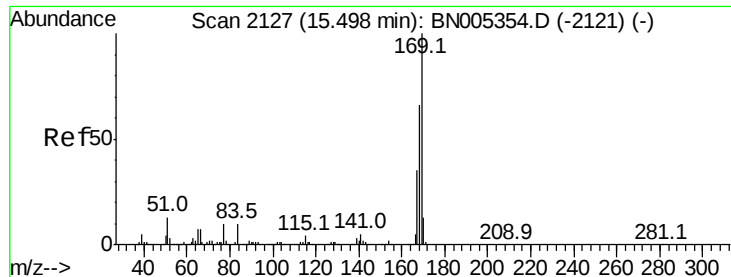


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BNC

Ion 108.00 (107.70 to 108.70): E



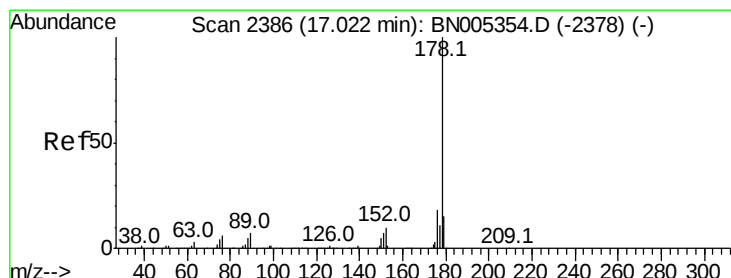
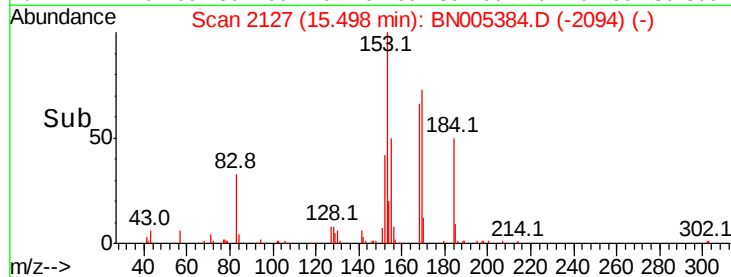
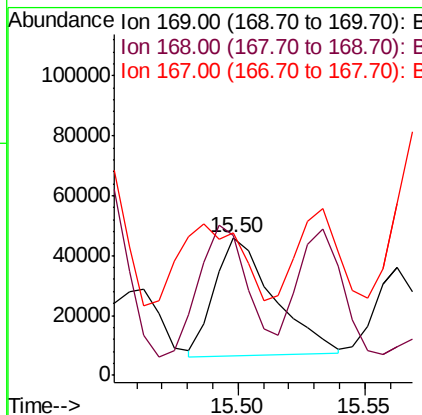
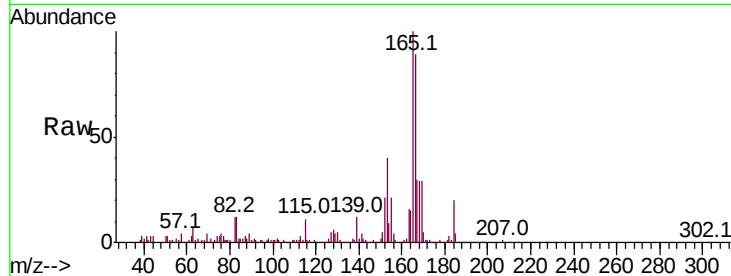


#64

N-Nitrosodiphenylamine
 Concen: 1.049 ng/ul
 RT: 15.50 min Scan# 2127
 Delta R.T. -0.01 min
 Lab File: BN005384.D
 Acq: 30 Apr 2019 22:32

Instrument :
 BNA_N
 ClientSampled :

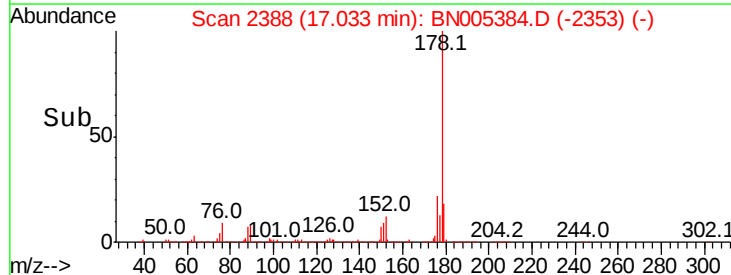
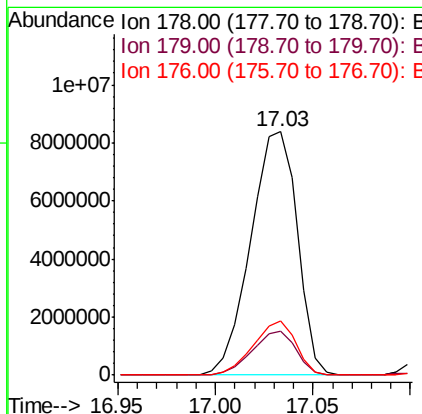
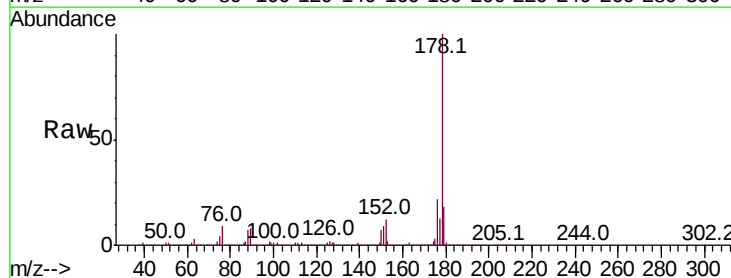
Tot Ion:169 Resp: 63661
 Ion Ratio Lower Upper
 169 100
 168 101.9 52.2 78.2#
 167 103.4 27.7 41.5#

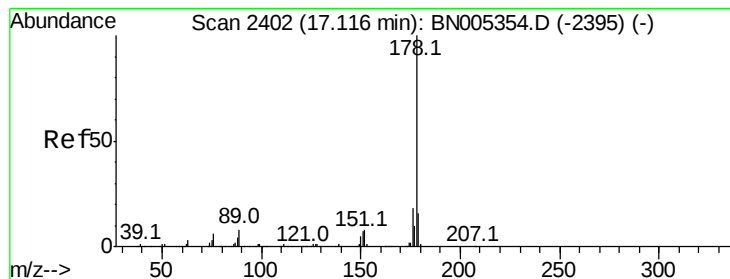


#69

Phenanthrene
 Concen: 128.253 ng/ul
 RT: 17.03 min Scan# 2388
 Delta R.T. 0.01 min
 Lab File: BN005384.D
 Acq: 30 Apr 2019 22:32

Tgt Ion:178 Resp:13850443
 Ion Ratio Lower Upper
 178 100
 179 17.9 12.2 18.4
 176 22.0 15.1 22.7



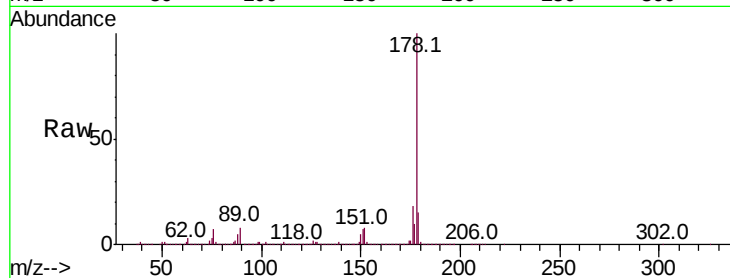


#71
 Anthracene
 Concen: 28.847 ng/ul
 RT: 17.12 min Scan# 2402
 Delta R.T. 0.00 min
 Lab File: BN005384.D
 Acq: 30 Apr 2019 22:32

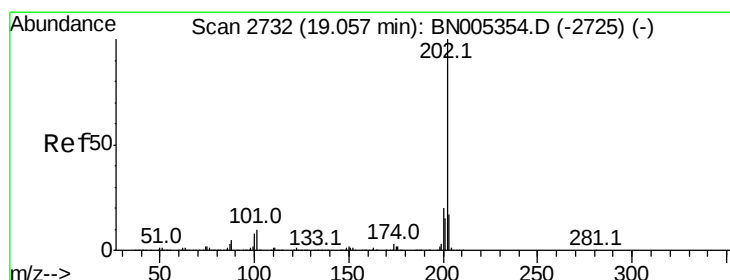
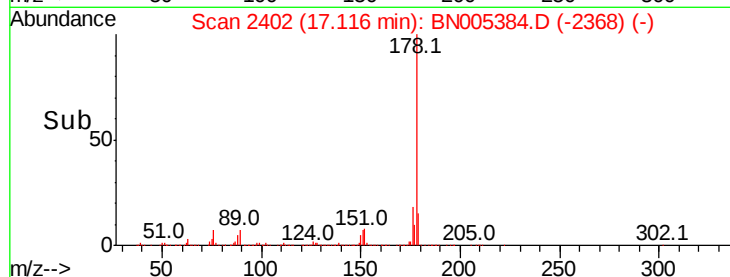
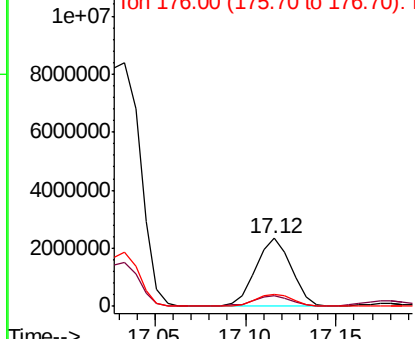
Instrument :
 BNA_N
 ClientSampled :

Tot Ion:178 Resp: 3173494

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.3	18.5
176	18.1	15.1	22.7



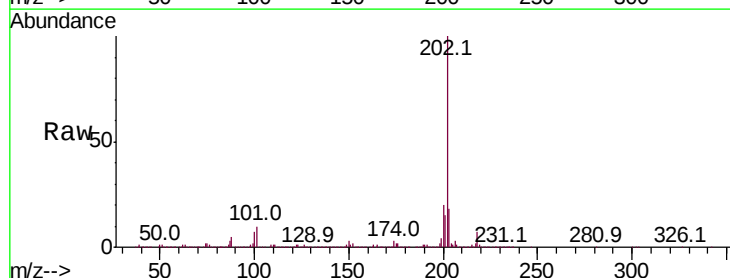
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E



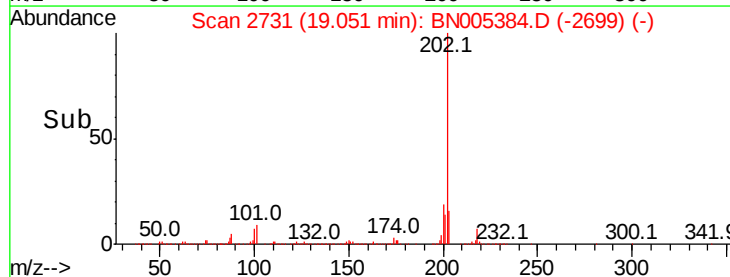
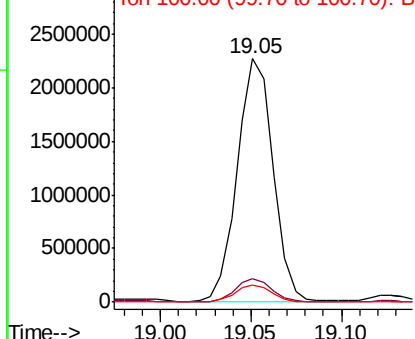
#76
 Fluoranthene
 Concen: 25.941 ng/ul
 RT: 19.05 min Scan# 2731
 Delta R.T. -0.01 min
 Lab File: BN005384.D
 Acq: 30 Apr 2019 22:32

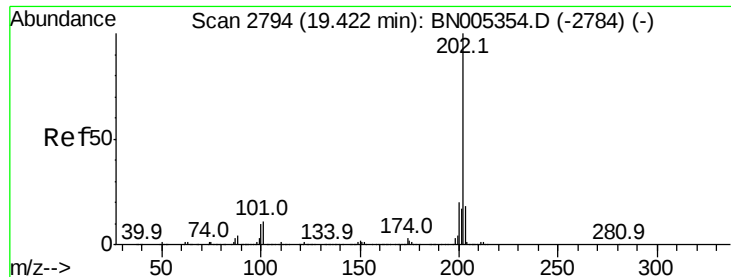
Tgt Ion:202 Resp: 3107277

Ion	Ratio	Lower	Upper
202	100		
101	9.9	8.6	12.8
100	7.0	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): B

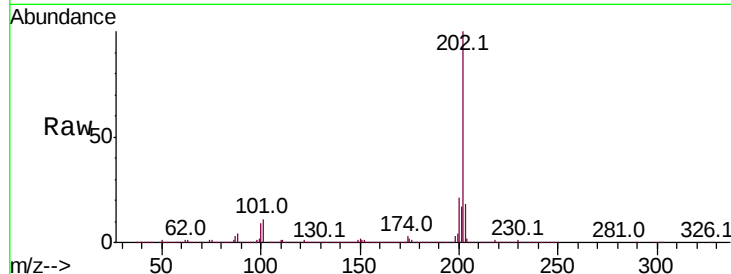




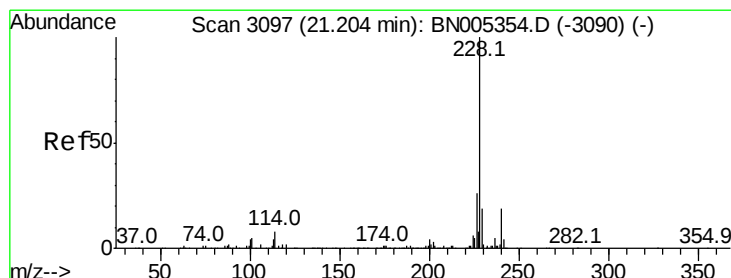
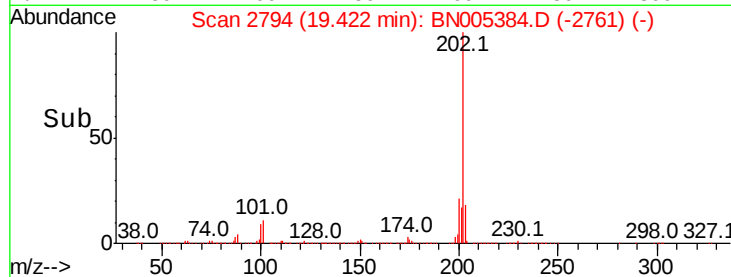
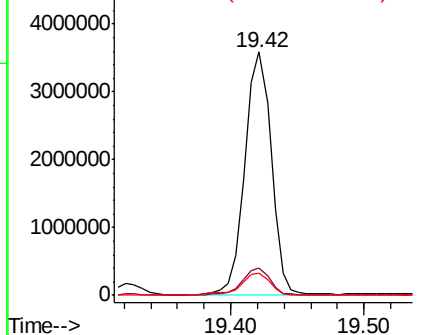
#79
Pvrene
Concen: 33.194 ng/ul
RT: 19.42 min Scan# 2794
Delta R.T. -0.01 min
Lab File: BN005384.D
Acq: 30 Apr 2019 22:32

Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 4881437
Ion Ratio Lower Upper
202 100
101 11.2 10.3 15.5
100 9.1 7.9 11.9

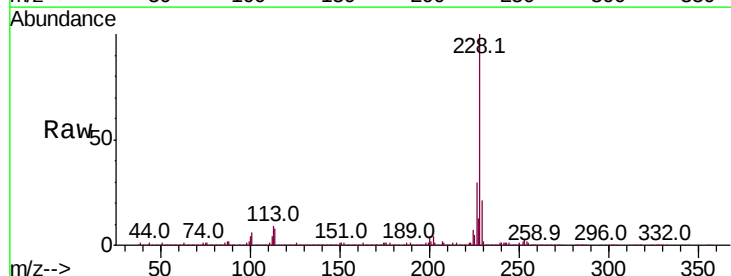


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B

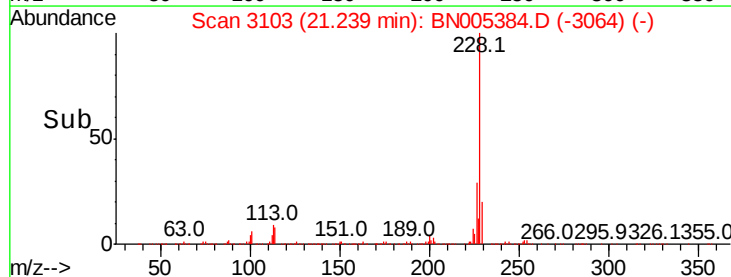
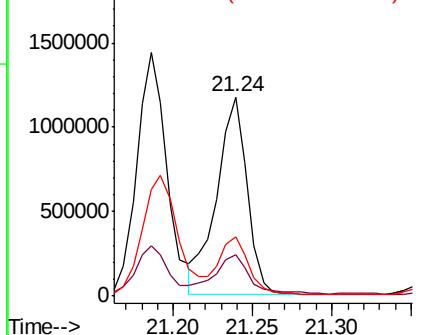


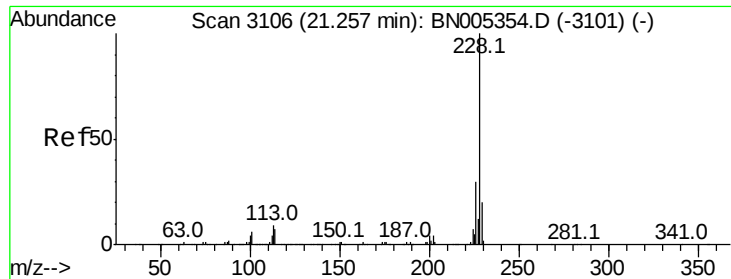
#82
Benzo(a)anthracene
Concen: 11.064 ng/ul
RT: 21.24 min Scan# 3103
Delta R.T. 0.03 min
Lab File: BN005384.D
Acq: 30 Apr 2019 22:32

Tgt Ion:228 Resp: 1572087
Ion Ratio Lower Upper
228 100
229 20.7 15.8 23.6
226 29.6 21.4 32.2



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: 12.018 ng/ul

RT: 21.24 min Scan# 3103

Delta R.T. -0.02 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

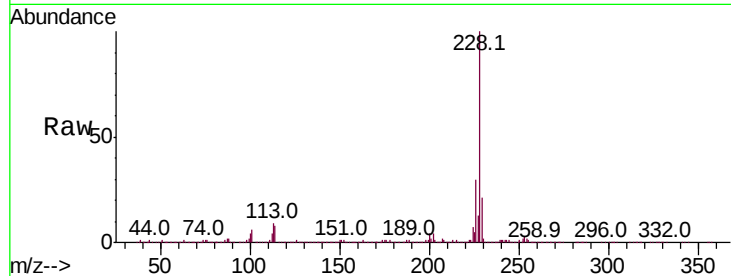
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 1584773

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.0	36.0
229	20.7	15.4	23.0

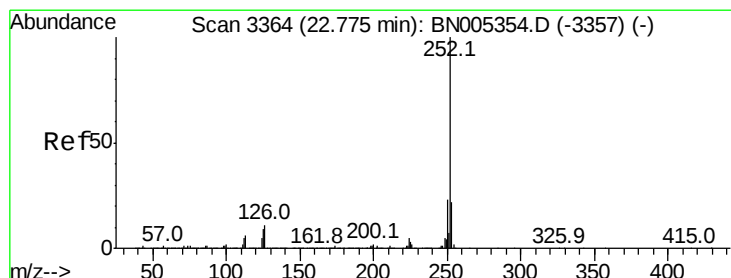
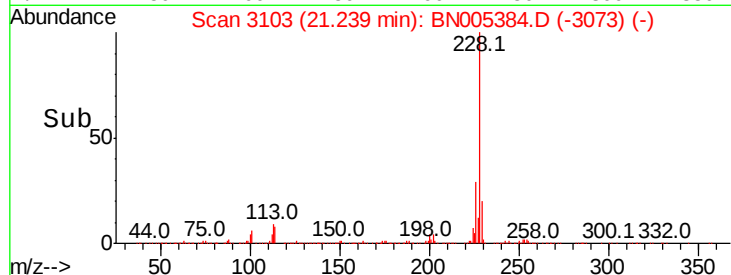
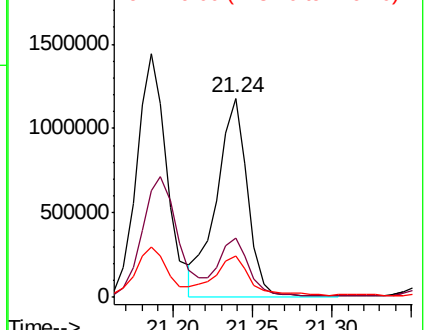


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Benzo(b)fluoranthene

Concen: 6.503 ng/ul

RT: 22.74 min Scan# 3359

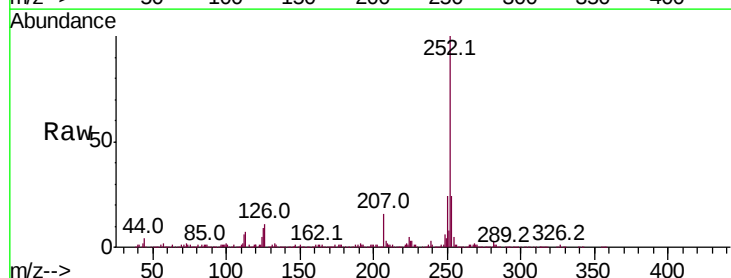
Delta R.T. -0.04 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Tgt Ion:252 Resp: 862644

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.7	26.5
125	9.2	8.4	12.6

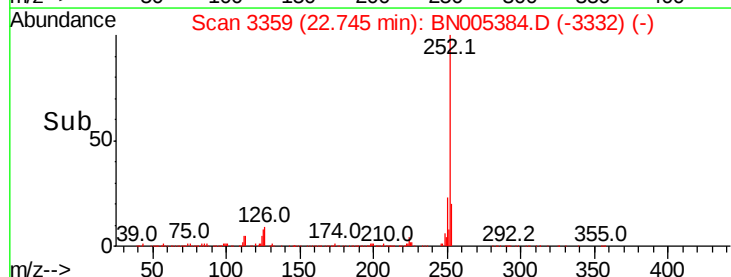
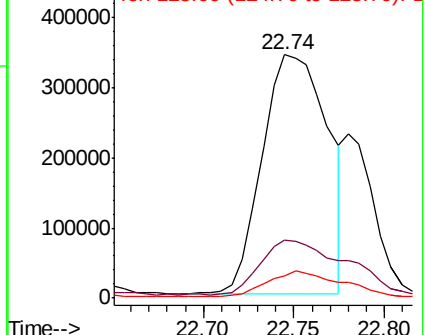


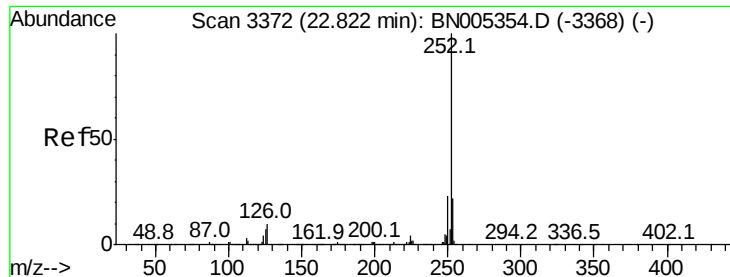
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 6.809 ng/ul

RT: 22.74 min Scan# 3359

Delta R.T. -0.08 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA_N

ClientSampled :

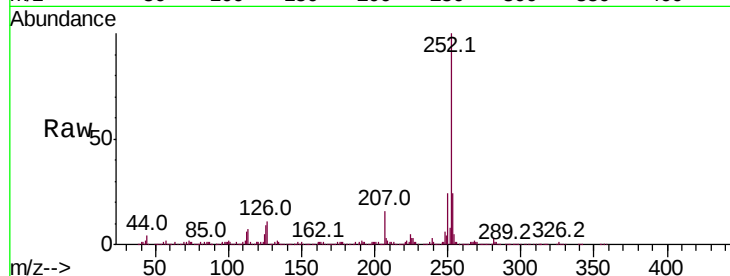
Tot Ion:252 Resp: 862644

Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.0

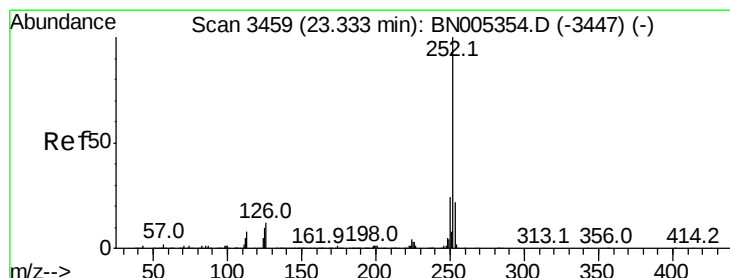
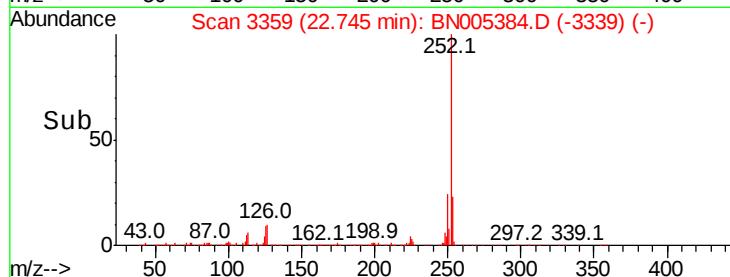
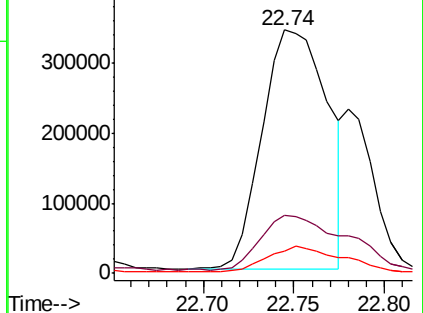
125 9.2 7.5 11.3



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: 7.952 ng/ul

RT: 23.30 min Scan# 3454

Delta R.T. -0.04 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

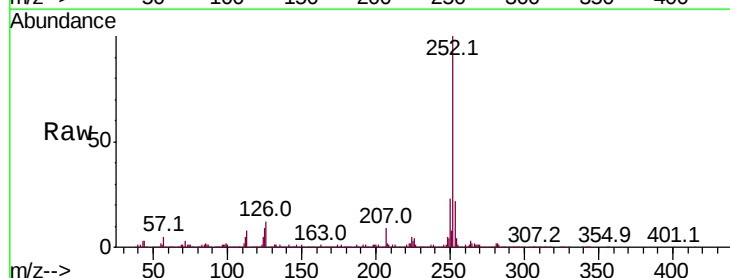
Tgt Ion:252 Resp: 991535

Ion Ratio Lower Upper

252 100

253 22.2 17.3 25.9

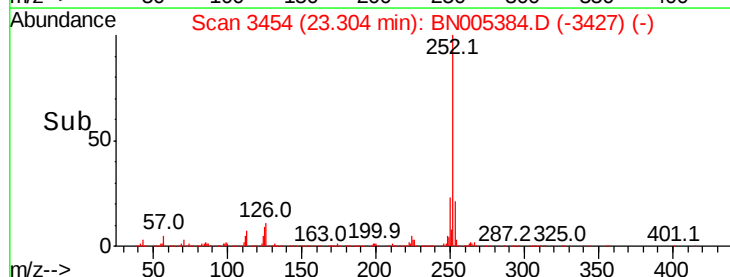
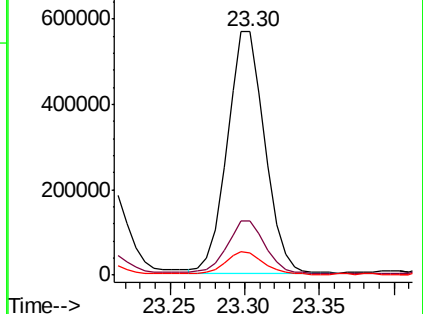
125 9.2 8.6 13.0

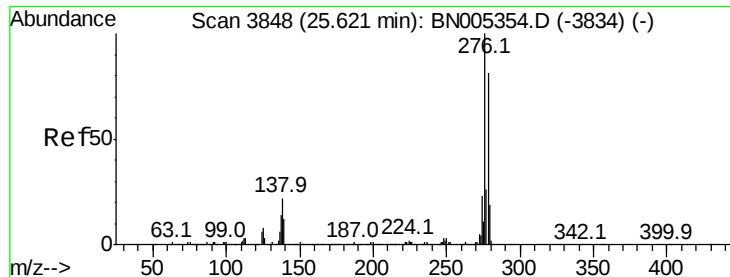


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



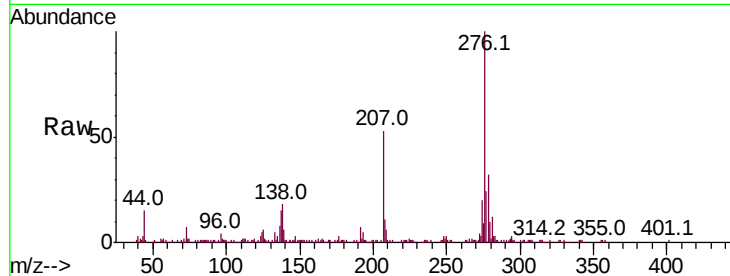


#91

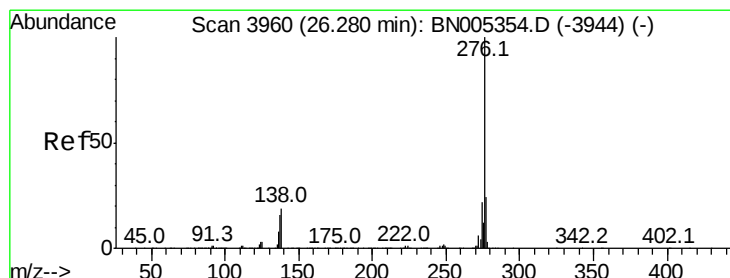
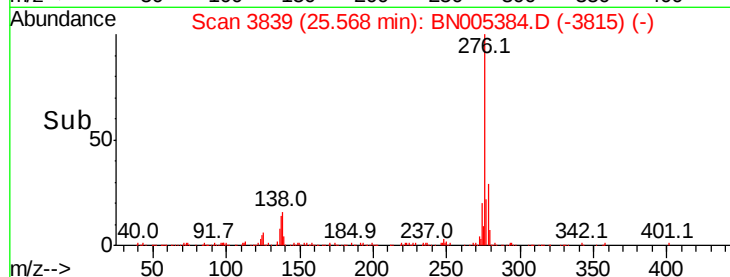
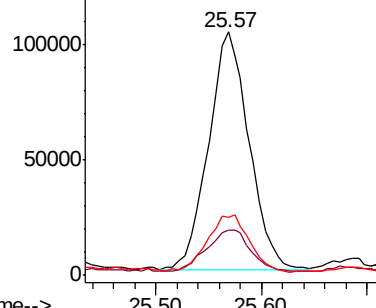
Indeno(1,2,3-cd)pyrene
Concen: 1.984 ng/ul
RT: 25.57 min Scan# 3839
Delta R.T. -0.06 min
Lab File: BN005384.D
Acq: 30 Apr 2019 22:32

Instrument :
BNA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.5	17.9	26.9
277	23.7	19.7	29.5



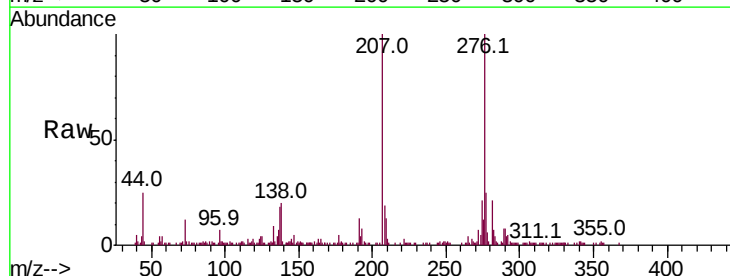
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#93

Benzo(g,h,i)perylene
Concen: 1.691 ng/ul
RT: 26.23 min Scan# 3952
Delta R.T. -0.06 min
Lab File: BN005384.D
Acq: 30 Apr 2019 22:32

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.9	16.7	25.1
277	24.9	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

