

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN043019\
 Data File : BN005385.D
 Acq On : 30 Apr 2019 23:07
 Operator : JU/SJ
 Sample : K2481-22ME
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 01 00:45:41 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	333768	20.00	ng/ul	0.00
18) Naphthalene-d8	10.35	136	1472050	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.23	164	941171	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.98	188	2264129	20.00	ng/ul	0.00
77) Chrysene-d12	21.21	240	2361705	20.00	ng/ul	-0.02
85) Perylene-d12	23.40	264	2503919	20.00	ng/ul	-0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	30701	4.44	ng/uL	0.00
5) Phenol-d5	6.78	99	665676	25.39	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.94	67	401803	24.57	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	550563	27.44	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	537081	26.21	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	286104	31.58	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	334406	36.41	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.98	165	578840	27.49	ng/ul	0.00
29) 4-Chloroaniline-d4	10.49	131	790471	36.41	ng/ul	0.00
43) Dimethylphthalate-d6	13.65	166	2030606	29.72	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	2458659	29.30	ng/ul	0.00
51) 4-Nitrophenol-d4	14.43	143	334304	30.99	ng/ul	0.00
57) Fluorene-d10	15.23	176	1758820	30.67	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.36	200	329246	32.33	ng/ul	0.00
70) Anthracene-d10	17.08	188	2915178	30.71	ng/ul	0.00
78) Pyrene-d10	19.39	212	3589507	29.71	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.27	264	3504271	32.02	ng/ul	-0.03

Target Compounds

					Ovalue
6) Phenol	6.80	94	69242	2.568	ng/ul 98
11) 2-Methylphenol	8.03	108	22607	1.119	ng/ul 98
16) 4-Methylphenol	8.36	108	48730	2.233	ng/ul 98
17) Hexachloroethane	8.68	117	26653	2.959	ng/ul# 6
28) Naphthalene	10.41	128	9091494	132.852	ng/ul 99
34) 2-Methylnaphthalene	12.02	142	3726901	74.378	ng/ul 98
40) 1,1'-Biphenyl	13.05	154	485869	6.929	ng/ul 97
44) Dimethylphthalate	13.69	163	412755	6.063	ng/ul 99
47) Acenaphthylene	13.95	152	1793271	21.746	ng/ul 98
49) Acenaphthene	14.29	153	300595	5.339	ng/ul 98
53) Dibenzofuran	14.63	168	1120483	13.823	ng/ul 99
58) Fluorene	15.28	166	1569838	24.820	ng/ul 96
69) Phenanthrene	17.03	178	6793859	61.613	ng/ul 99
71) Anthracene	17.12	178	1951748	17.375	ng/ul 98
74) Carbazole	17.39	167	454627	4.711	ng/ul 98
76) Fluoranthene	19.06	202	3829302	31.309	ng/ul 96
79) Pyrene	19.42	202	3613249	23.762	ng/ul 96
82) Benzo(a)anthracene	21.19	228	1759021	11.972	ng/ul 95
84) Chrysene	21.25	228	1418683	10.404	ng/ul 97
87) Benzo(b)fluoranthene	22.75	252	1220901	8.674	ng/ul 99
88) Benzo(k)fluoranthene	22.75	252	1220901	9.082	ng/ul 99
90) Benzo(a)pyrene	23.31	252	1030231	7.787	ng/ul 99
91) Indeno(1,2,3-cd)pyrene	25.57	276	407121	2.783	ng/ul 96

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Quant Title : SVOA CALIBRATION
QLast Update : Thu Apr 25 03:19:34 2019
Response via : Initial Calibration

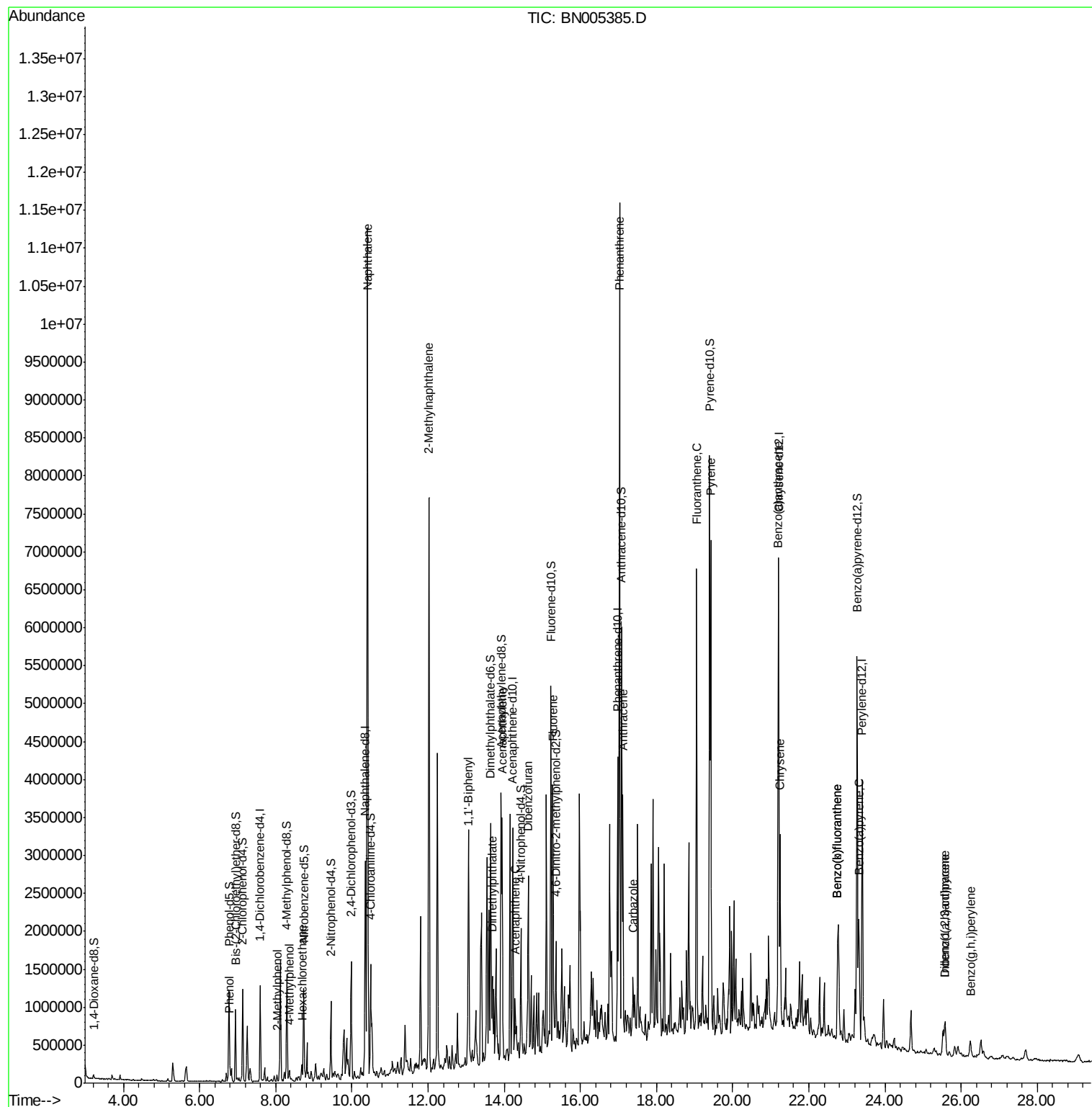
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Dibenzo(a,h)anthracene	25.57	278	130116	1.048	ng/ul#	82
93) Benzo(g,h,i)perylene	26.24	276	253735	2.098	ng/ul	98

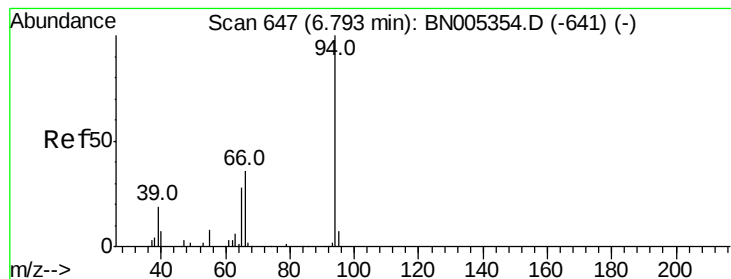
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION
QLast Update : Thu Apr 25 03:19:34 2019
Response via : Initial Calibration





#6

Phenol

Concen: 2.568 ng/ul

RT: 6.80 min Scan# 648

Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

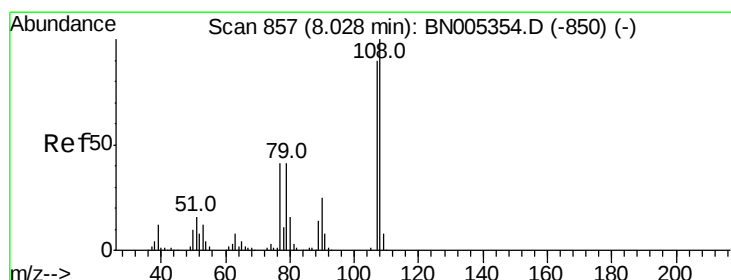
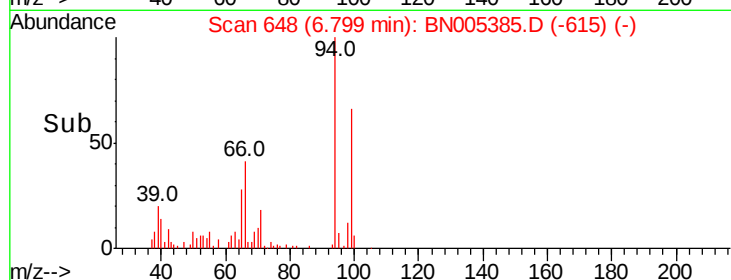
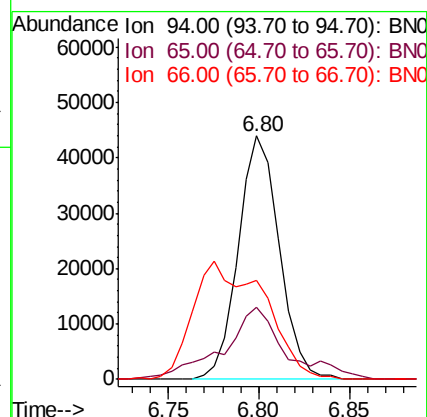
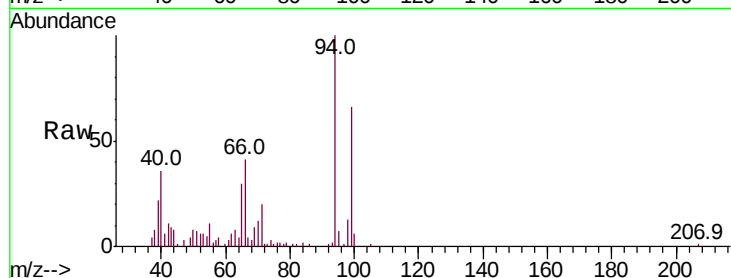
Tot Ion: 94 Resp: 69242

Ion Ratio Lower Upper

94 100

65 29.7 24.2 36.4

66 40.5 33.8 50.6



#11

2-Methylphenol

Concen: 1.119 ng/ul

RT: 8.03 min Scan# 858

Delta R.T. 0.00 min

Lab File: BN005385.D

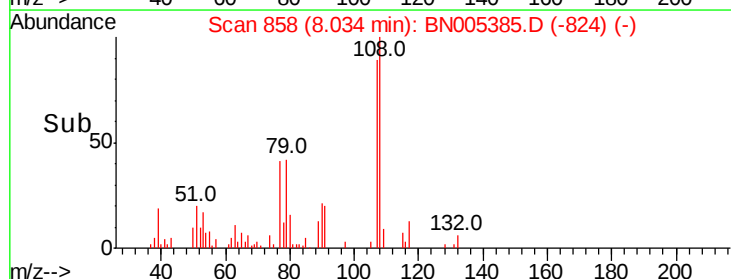
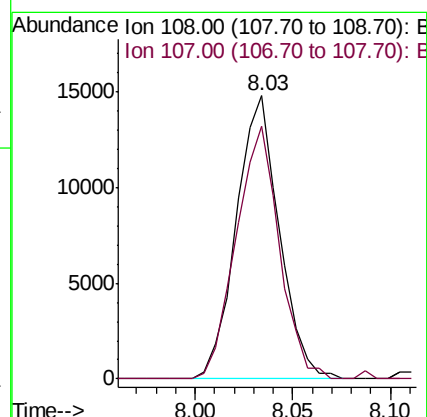
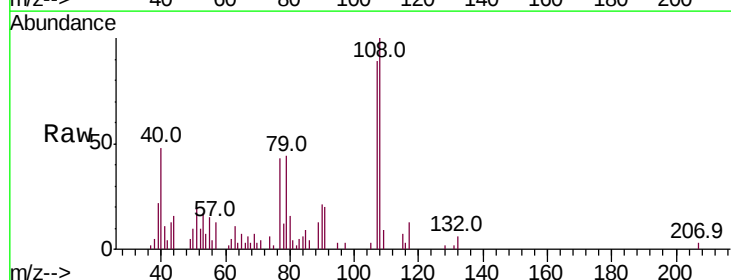
Acq: 30 Apr 2019 23:07

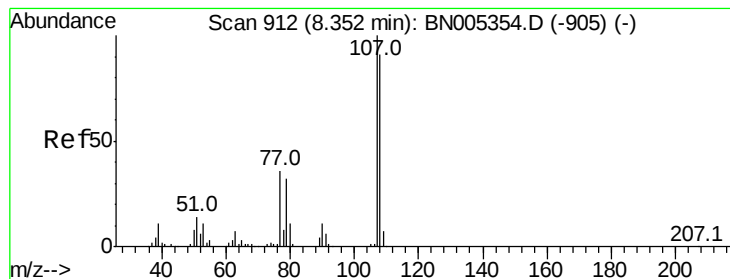
Tgt Ion: 108 Resp: 22607

Ion Ratio Lower Upper

108 100

107 89.5 72.9 109.3





#16

4-Methylphenol

Concen: 2.233 ng/ul

RT: 8.36 min Scan# 913

Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

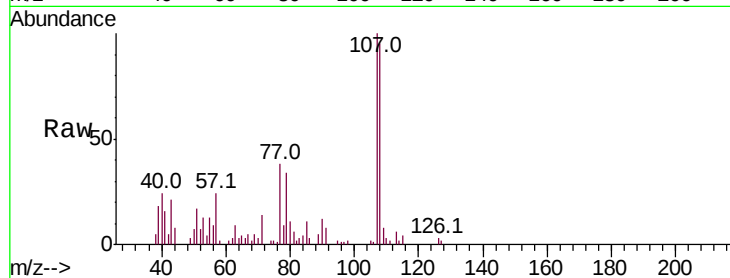
ClientSampleId :

Tot Ion:108 Resp: 48730

Ion Ratio Lower Upper

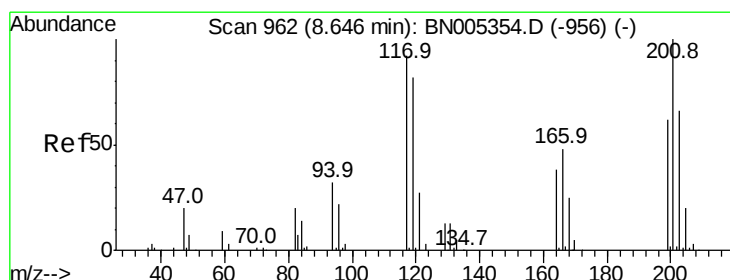
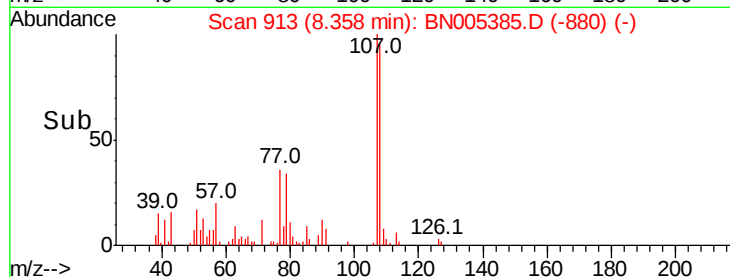
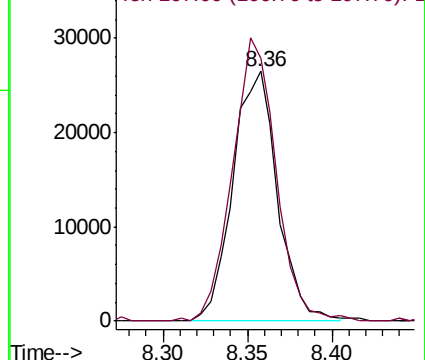
108 100

107 105.2 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: 2.959 ng/ul

RT: 8.68 min Scan# 968

Delta R.T. 0.02 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

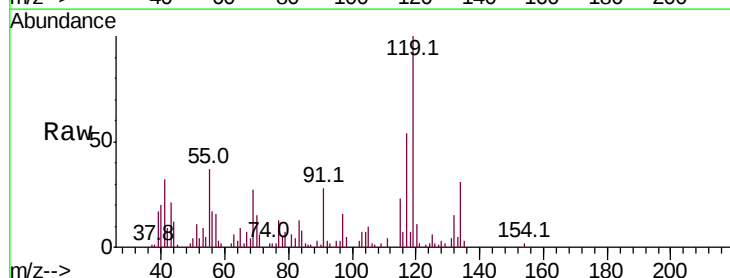
Tgt Ion:117 Resp: 26653

Ion Ratio Lower Upper

117 100

201 0.0 84.1 126.1#

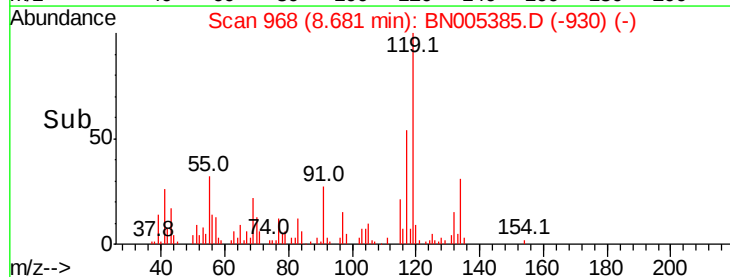
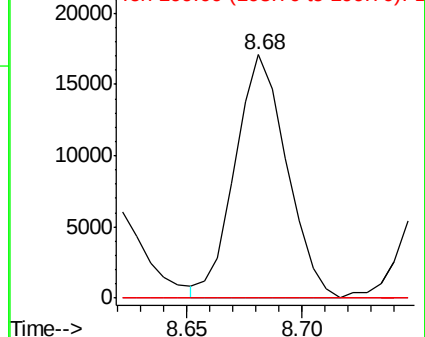
199 0.0 51.2 76.8#

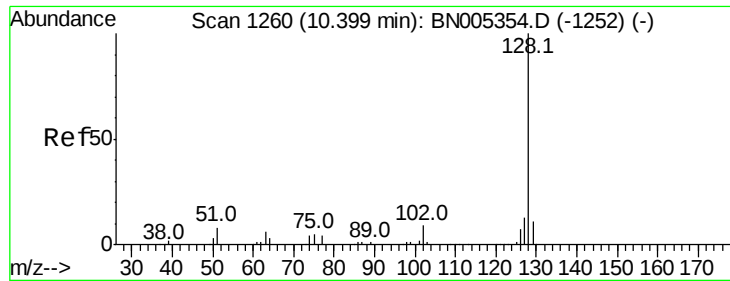


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E





#28

Naphthalene

Concen: 132.852 ng/ul

RT: 10.41 min Scan# 1262

Delta R.T. 0.00 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

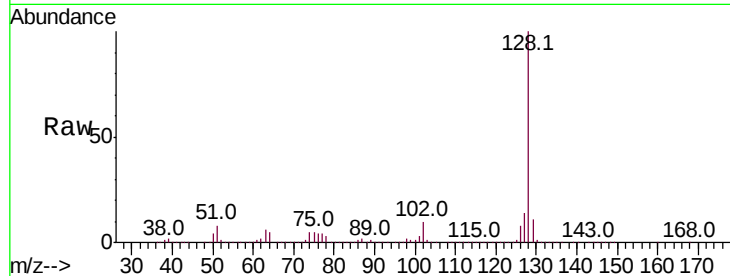
Tot Ion:128 Resp: 9091494

Ion Ratio Lower Upper

128 100

129 11.2 9.2 13.8

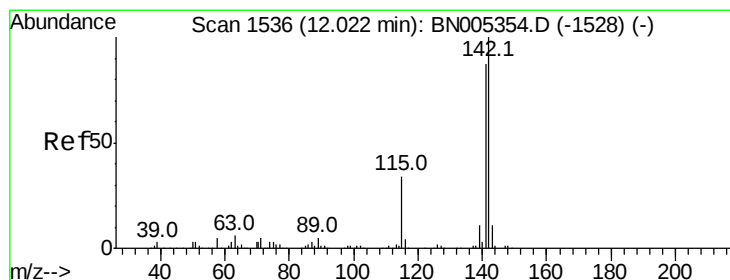
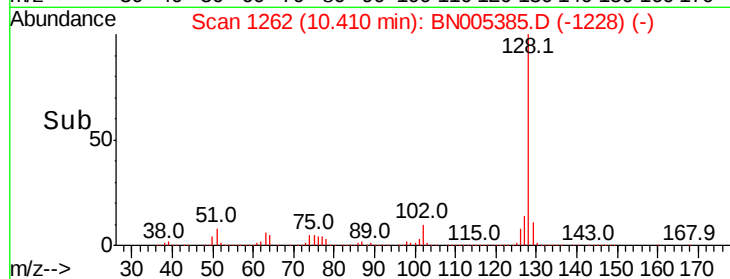
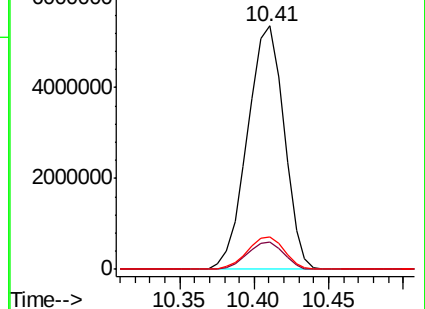
127 13.6 10.7 16.1



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



#34

2-Methylnaphthalene

Concen: 74.378 ng/ul

RT: 12.02 min Scan# 1536

Delta R.T. -0.01 min

Lab File: BN005385.D

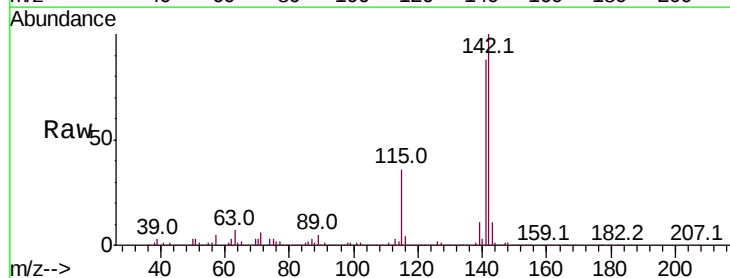
Acq: 30 Apr 2019 23:07

Tgt Ion:142 Resp: 3726901

Ion Ratio Lower Upper

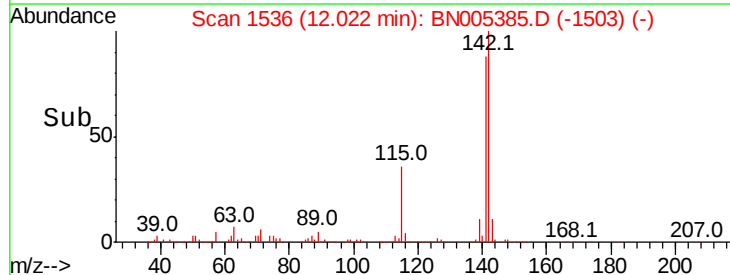
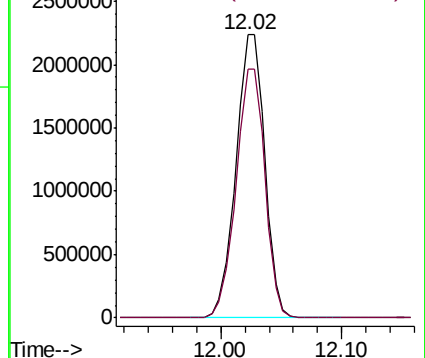
142 100

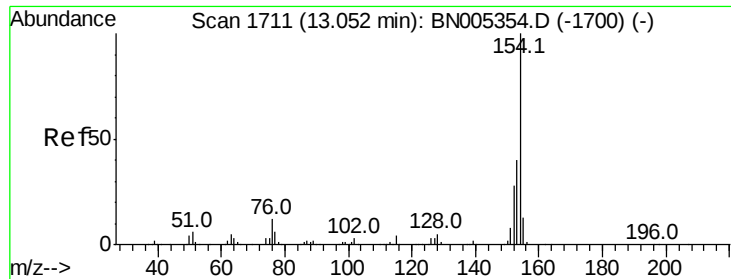
141 87.9 72.0 108.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#40

1,1'-Biphenyl

Concen: 6.929 ng/ul

RT: 13.05 min Scan# 1711

Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

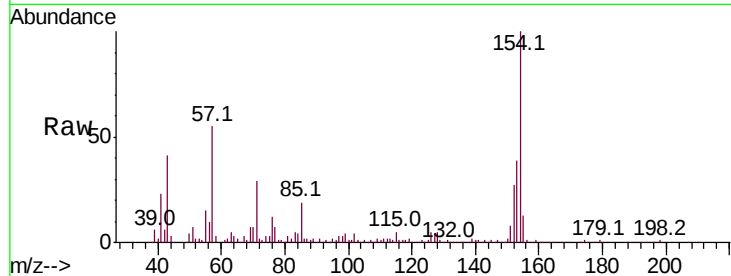
Tot Ion:154 Resp: 485869

Ion Ratio Lower Upper

154 100

153 39.0 32.6 49.0

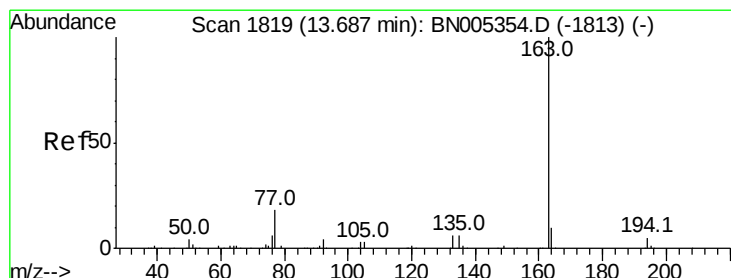
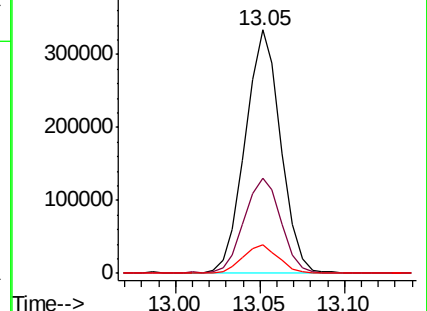
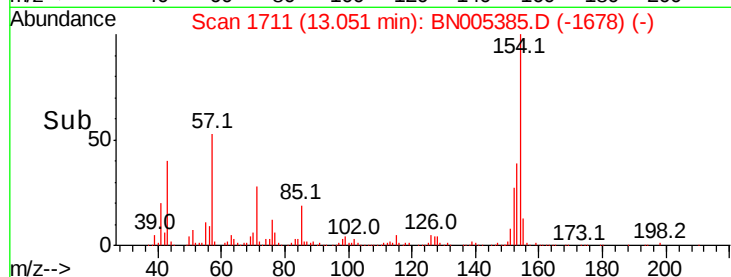
76 11.7 10.4 15.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BNC



#44

Dimethylphthalate

Concen: 6.063 ng/ul

RT: 13.69 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

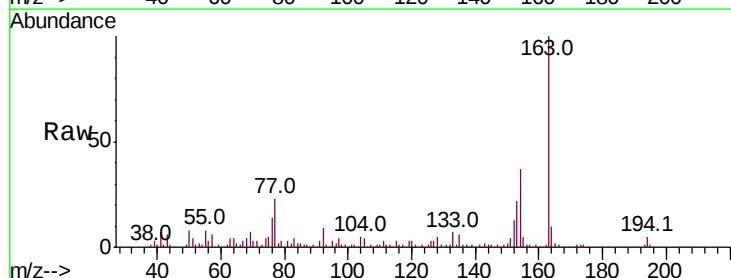
Tgt Ion:163 Resp: 412755

Ion Ratio Lower Upper

163 100

194 4.6 3.4 5.0

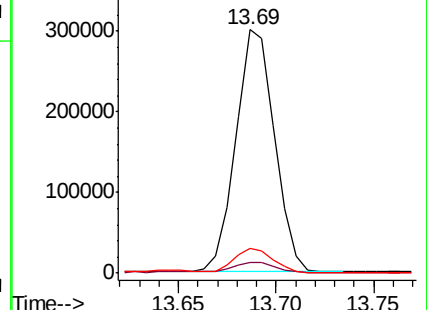
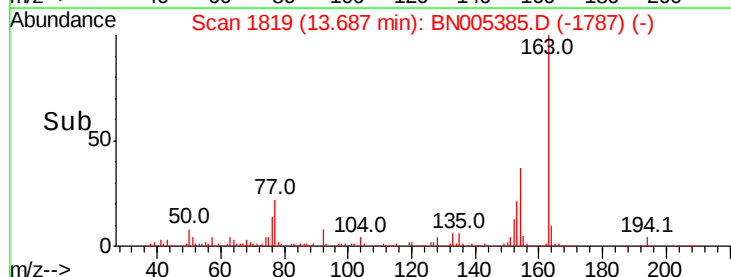
164 10.2 8.1 12.1

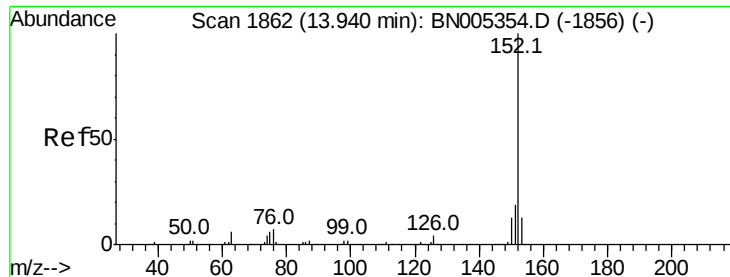


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#47

Acenaphthylene

Concen: 21.746 ng/ul

RT: 13.95 min Scan# 1863

Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

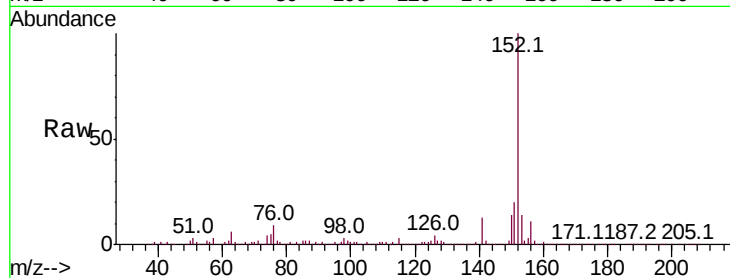
Instrument :

BNA_N

ClientSampleId :

Tot Ion:152 Resp: 1793271

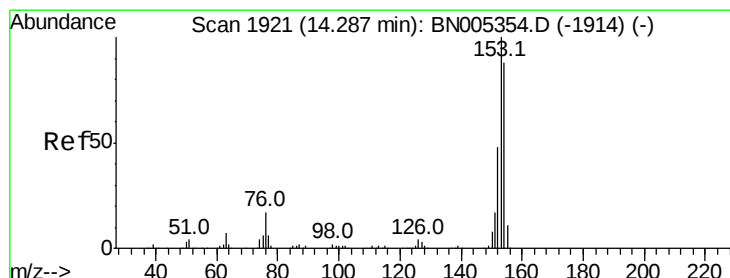
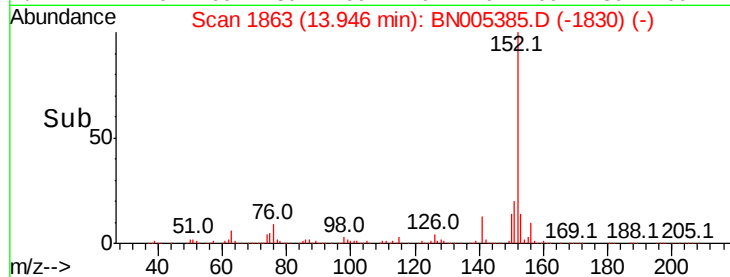
Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	14.1	9.8	14.8



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: 5.339 ng/ul

RT: 14.29 min Scan# 1921

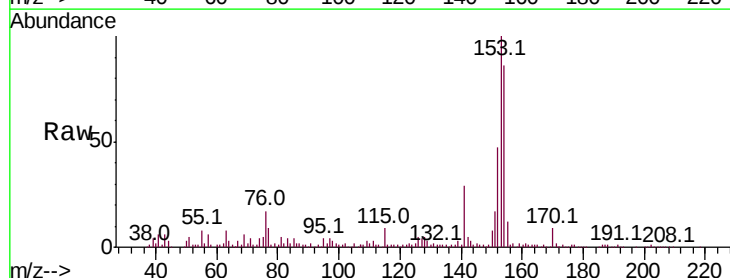
Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Tgt Ion:153 Resp: 300595

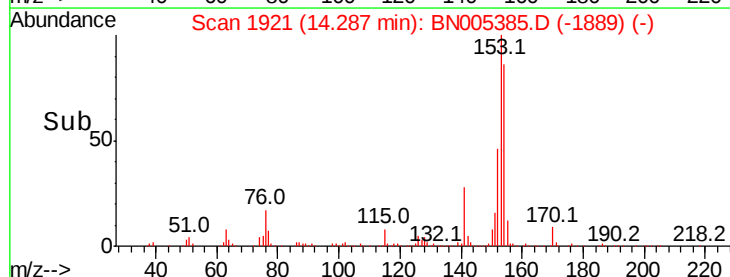
Ion	Ratio	Lower	Upper
153	100		
152	46.6	37.4	56.0
154	85.7	71.2	106.8

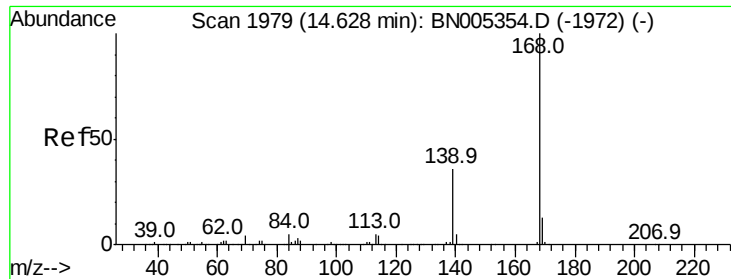


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

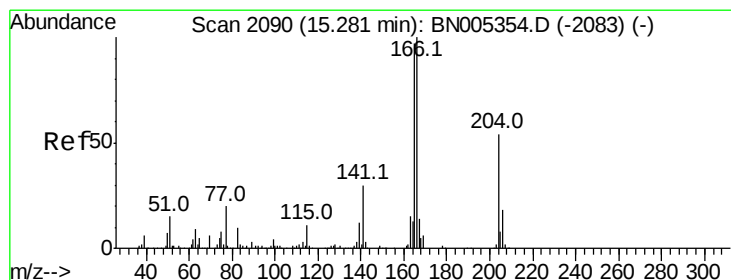
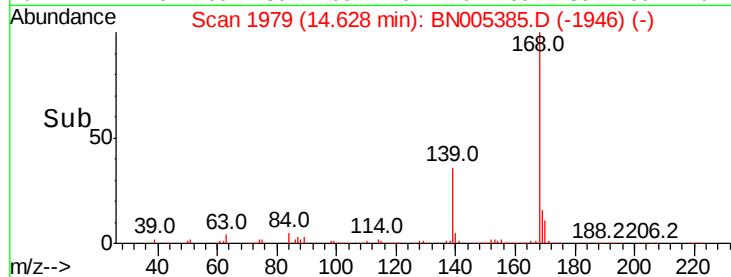
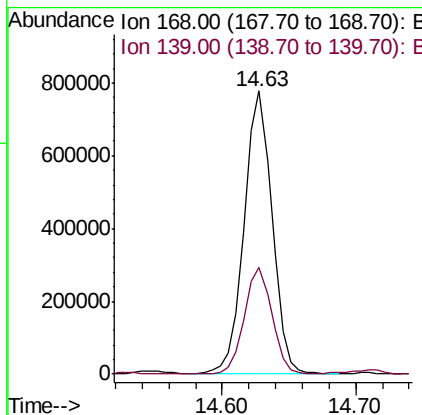
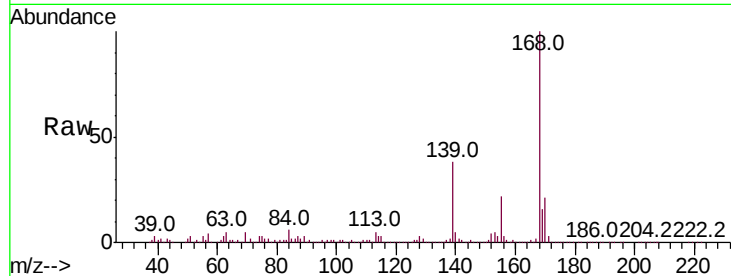




#53
Dibenzenofuran
Concen: 13.823 ng/ul
RT: 14.63 min Scan# 1979
Delta R.T. -0.01 min
Lab File: BN005385.D
Acq: 30 Apr 2019 23:07

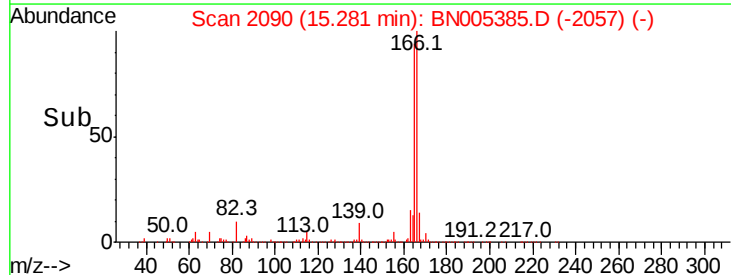
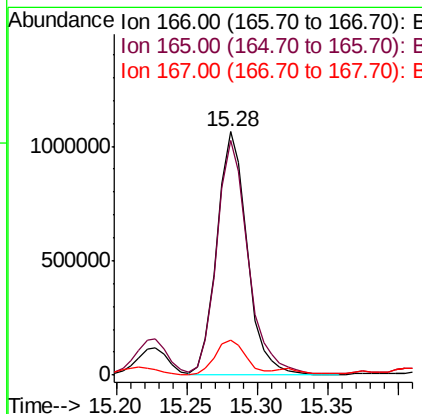
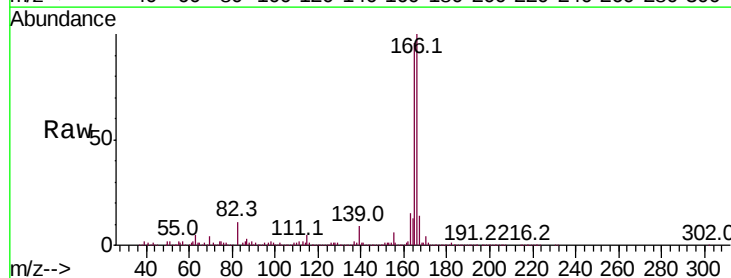
Instrument :
BNA_N
ClientSampled :

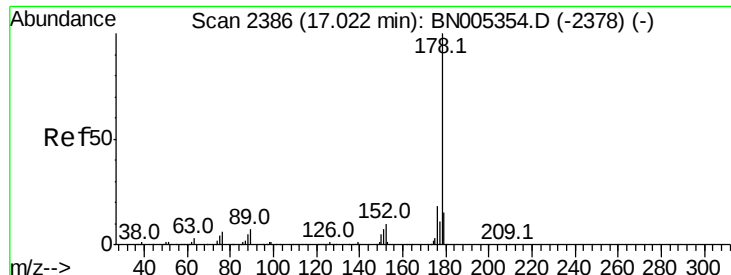
Tot Ion:168 Resp: 1120483
Ion Ratio Lower Upper
168 100
139 37.8 30.9 46.3



#58
Fluorene
Concen: 24.820 ng/ul
RT: 15.28 min Scan# 2090
Delta R.T. -0.01 min
Lab File: BN005385.D
Acq: 30 Apr 2019 23:07

Tgt Ion:166 Resp: 1569838
Ion Ratio Lower Upper
166 100
165 96.3 80.0 120.0
167 14.4 10.7 16.1





#69

Phenanthrene

Concen: 61.613 ng/ul

RT: 17.03 min Scan# 2387

Delta R.T. 0.00 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

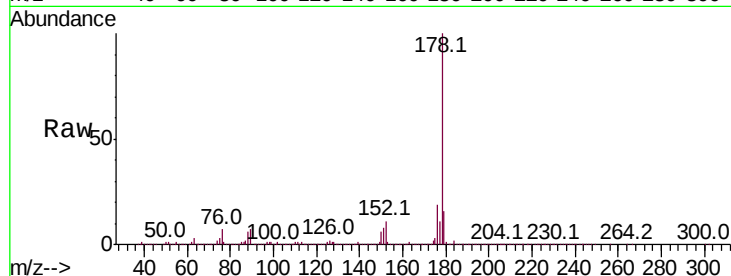
Tot Ion:178 Resp: 6793859

Ion Ratio Lower Upper

178 100

179 16.1 12.2 18.4

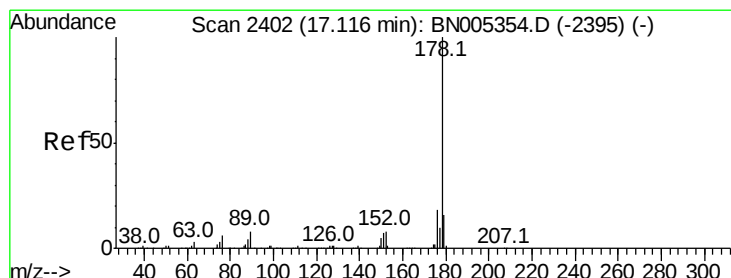
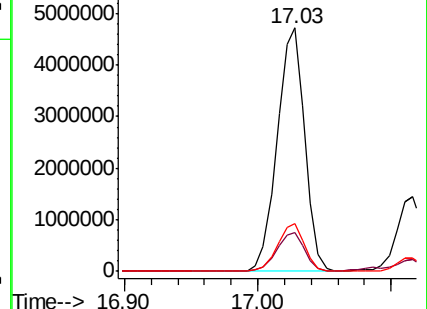
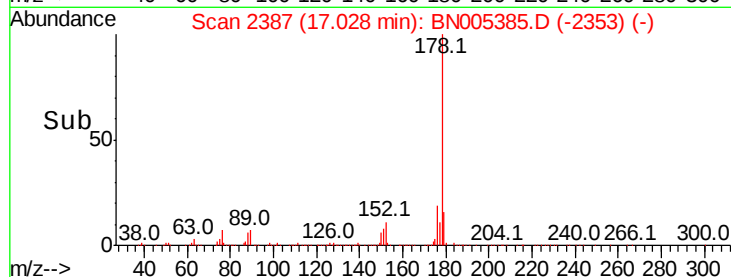
176 19.4 15.1 22.7



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: 17.375 ng/ul

RT: 17.12 min Scan# 2402

Delta R.T. 0.00 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

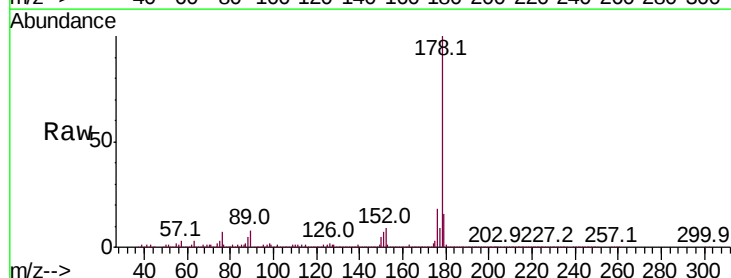
Tgt Ion:178 Resp: 1951748

Ion Ratio Lower Upper

178 100

179 15.9 12.3 18.5

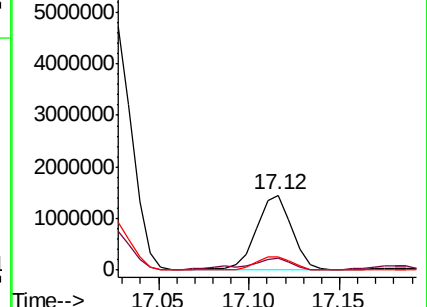
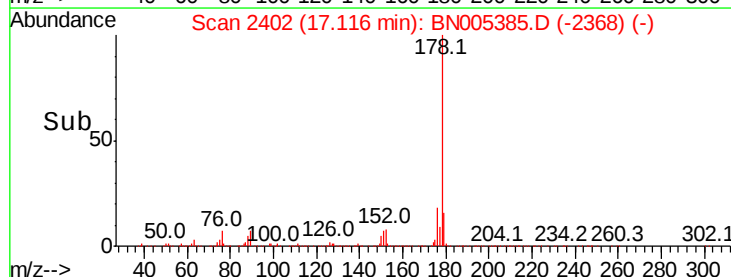
176 17.9 15.1 22.7

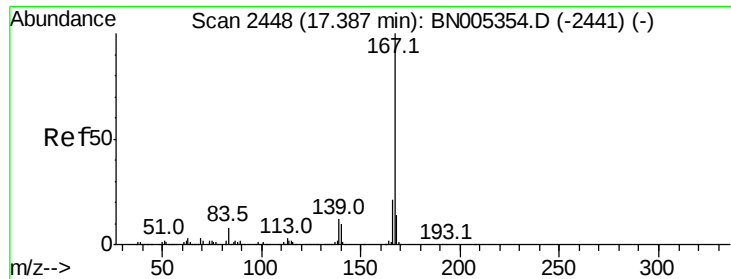


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 4.711 ng/ul

RT: 17.39 min Scan# 2448

Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

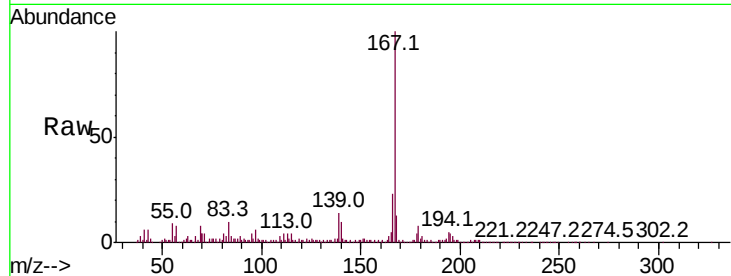
Tot Ion:167 Resp: 454627

Ion Ratio Lower Upper

167 100

166 22.9 17.2 25.8

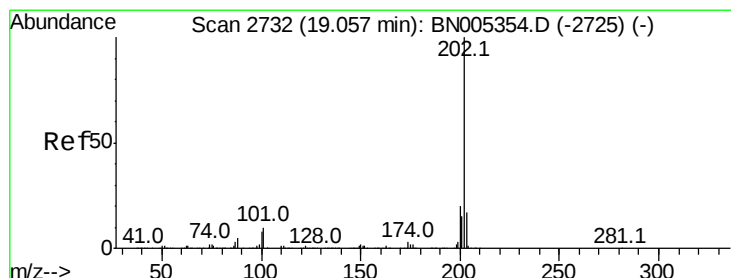
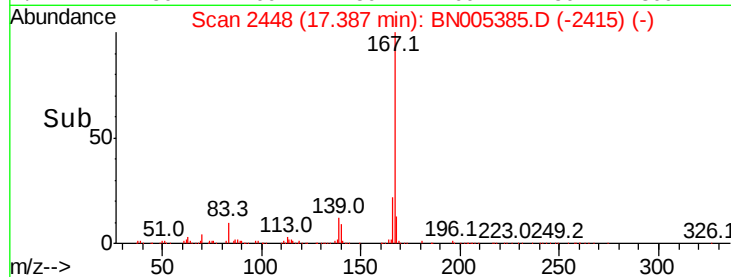
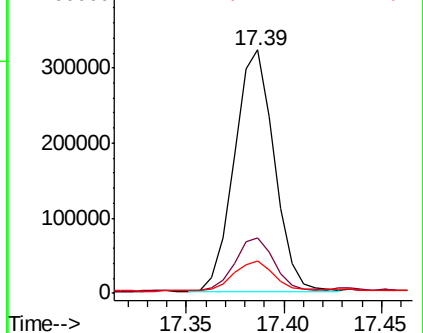
139 13.6 10.6 16.0



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: 31.309 ng/ul

RT: 19.06 min Scan# 2732

Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

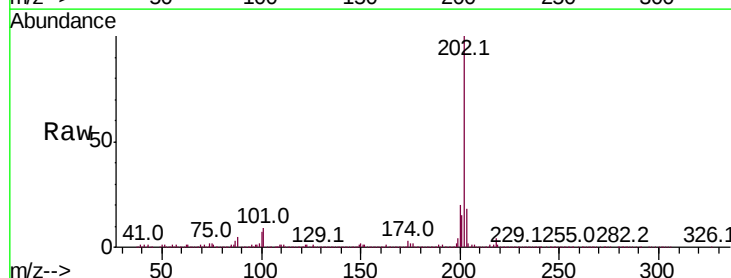
Tgt Ion:202 Resp: 3829302

Ion Ratio Lower Upper

202 100

101 8.9 8.6 12.8

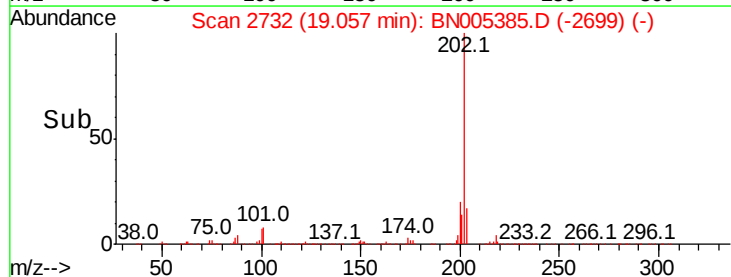
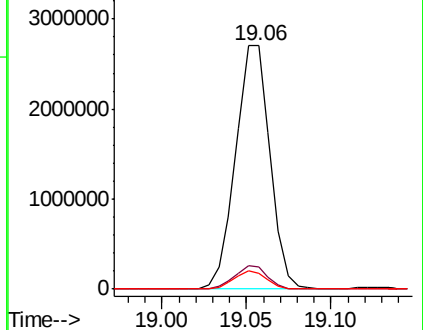
100 6.7 6.3 9.5

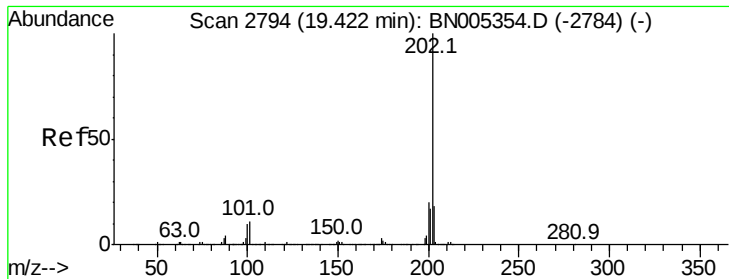


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#79

Pvrene

Concen: 23.762 ng/ul

RT: 19.42 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

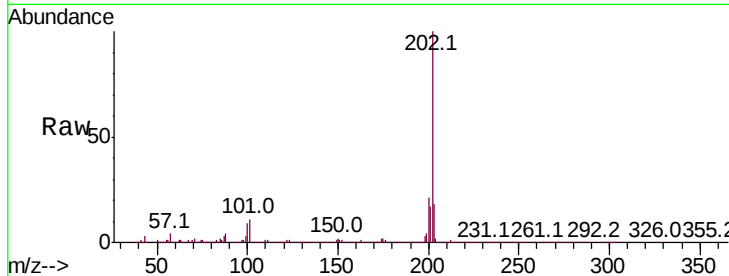
Tot Ion:202 Resp: 3613249

Ion Ratio Lower Upper

202 100

101 10.8 10.3 15.5

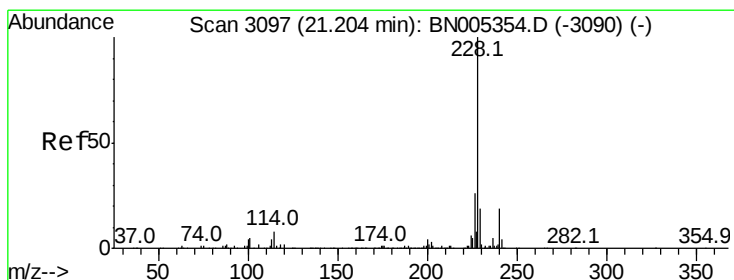
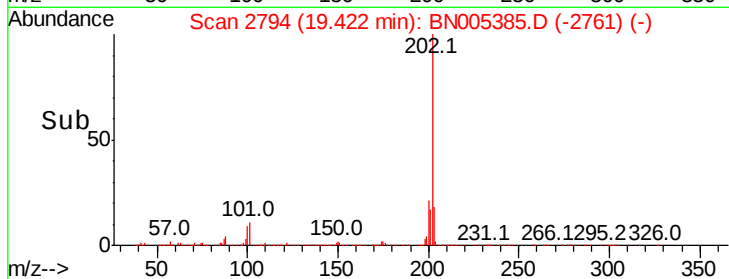
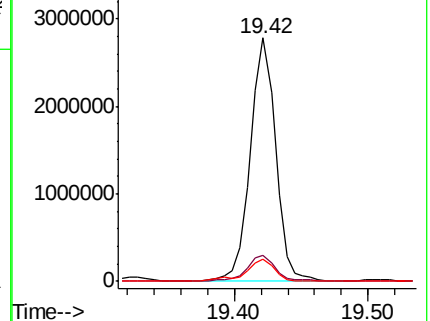
100 8.9 7.9 11.9



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: 11.972 ng/ul

RT: 21.19 min Scan# 3095

Delta R.T. -0.02 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

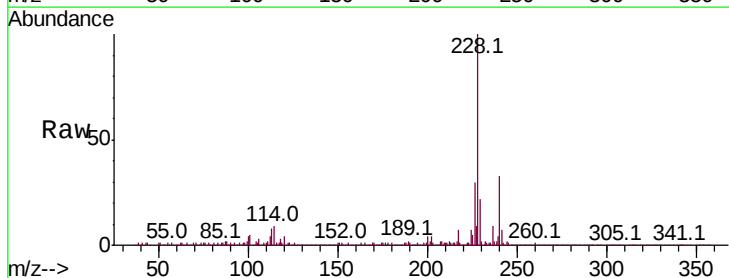
Tgt Ion:228 Resp: 1759021

Ion Ratio Lower Upper

228 100

229 21.5 15.8 23.6

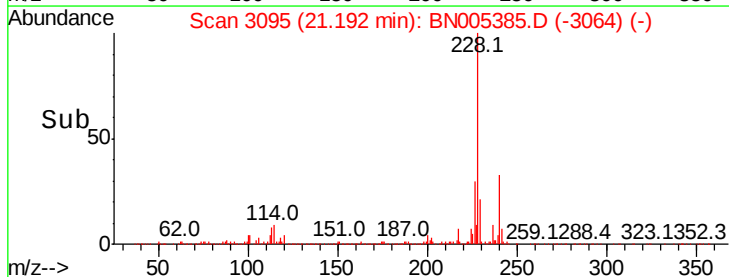
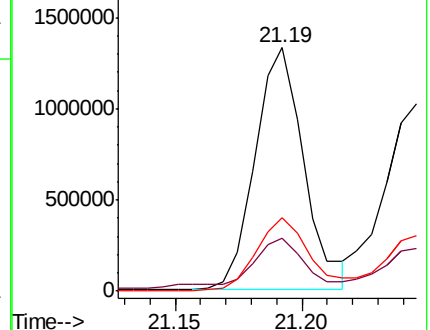
226 29.9 21.4 32.2

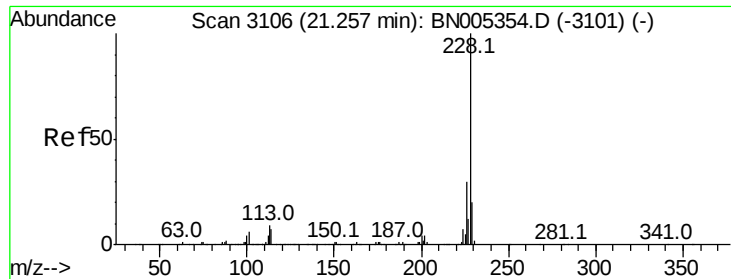


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 10.404 ng/ul

RT: 21.25 min Scan# 3104

Delta R.T. -0.02 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

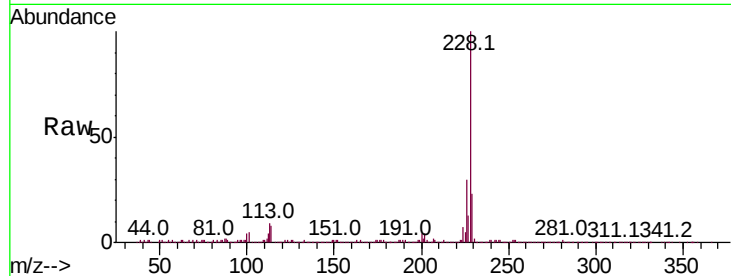
Tot Ion:228 Resp: 1418683

Ion Ratio Lower Upper

228 100

226 29.5 24.0 36.0

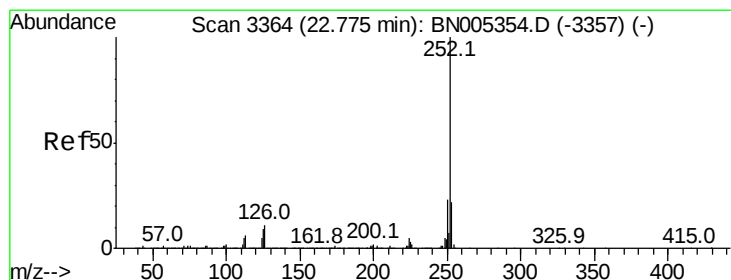
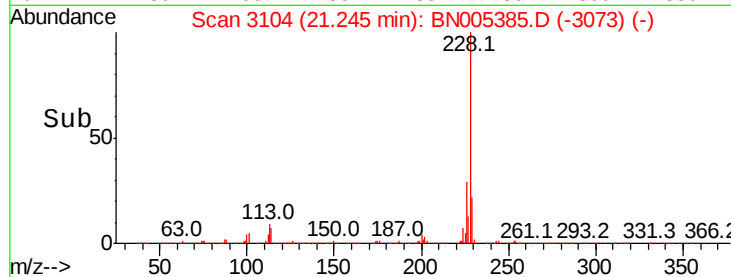
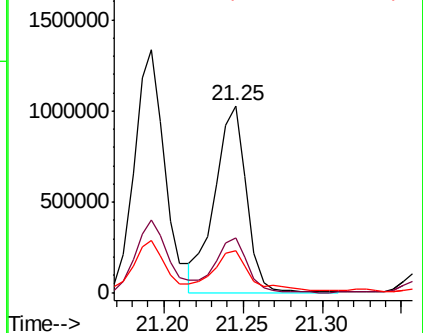
229 22.6 15.4 23.0



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: 8.674 ng/ul

RT: 22.75 min Scan# 3360

Delta R.T. -0.03 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

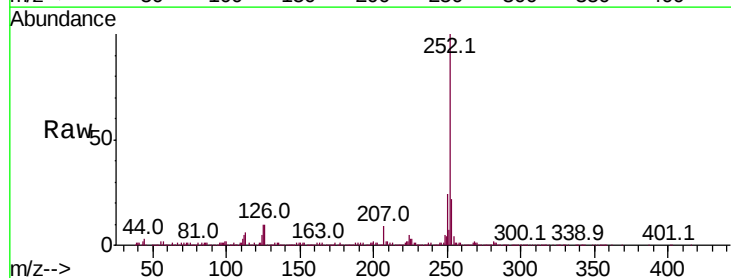
Tgt Ion:252 Resp: 1220901

Ion Ratio Lower Upper

252 100

253 22.1 17.7 26.5

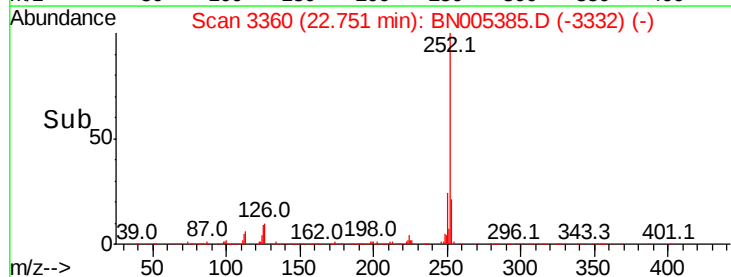
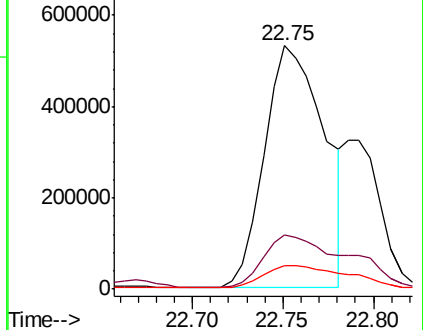
125 9.6 8.4 12.6

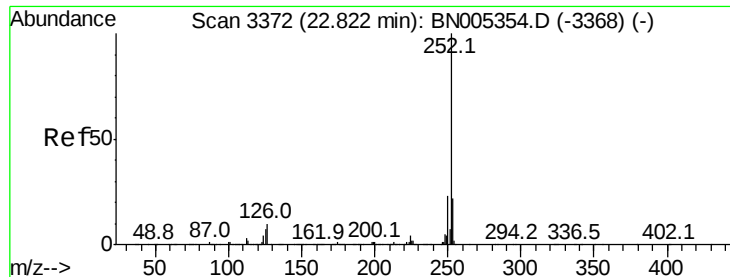


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 9.082 ng/ul

RT: 22.75 min Scan# 3360

Delta R.T. -0.08 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

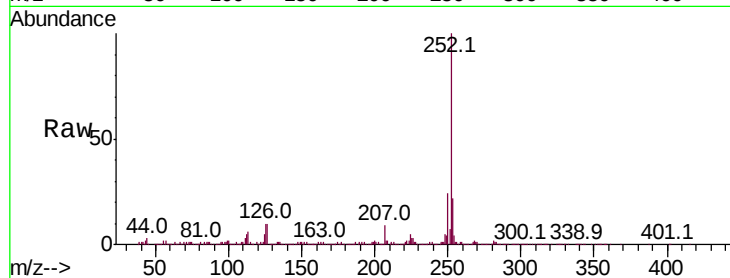
Tot Ion:252 Resp: 1220901

Ion Ratio Lower Upper

252 100

253 22.1 17.4 26.0

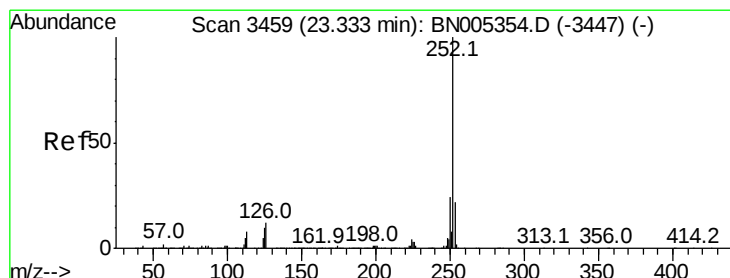
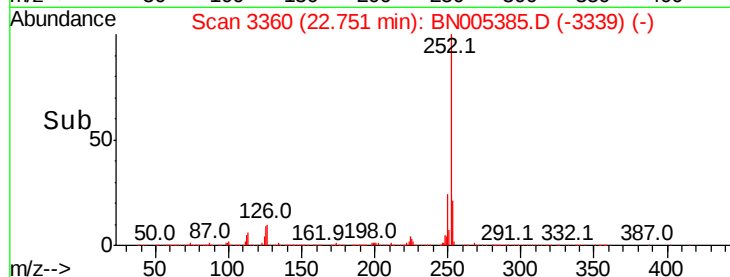
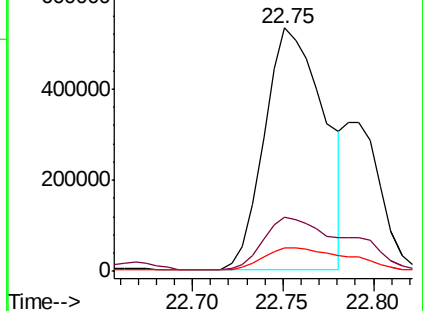
125 9.6 7.5 11.3



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: 7.787 ng/ul

RT: 23.31 min Scan# 3455

Delta R.T. -0.03 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

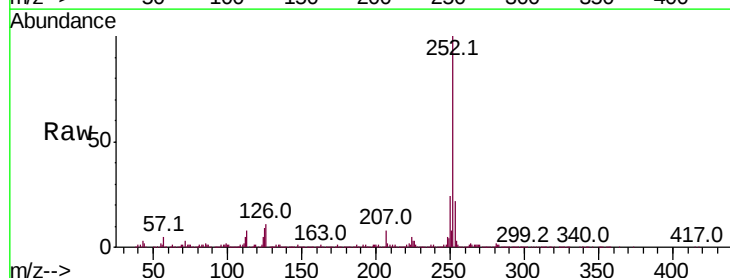
Tgt Ion:252 Resp: 1030231

Ion Ratio Lower Upper

252 100

253 21.6 17.3 25.9

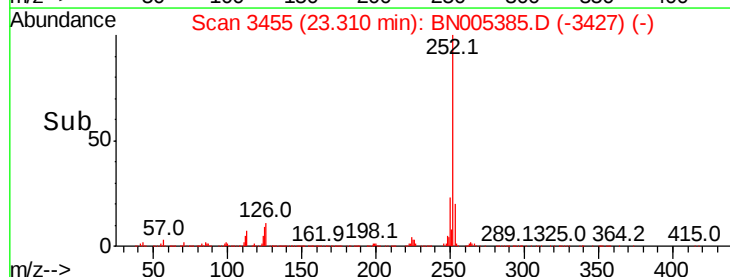
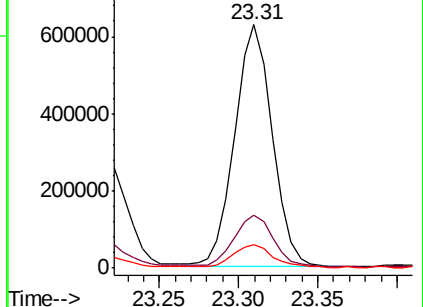
125 9.5 8.6 13.0

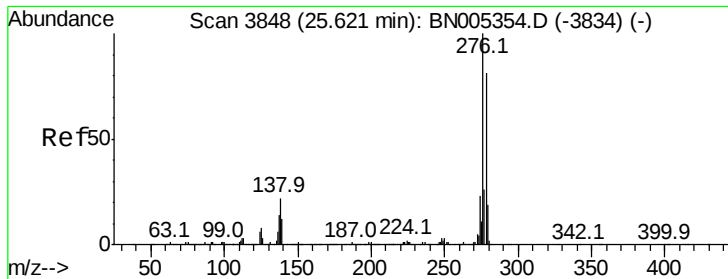


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

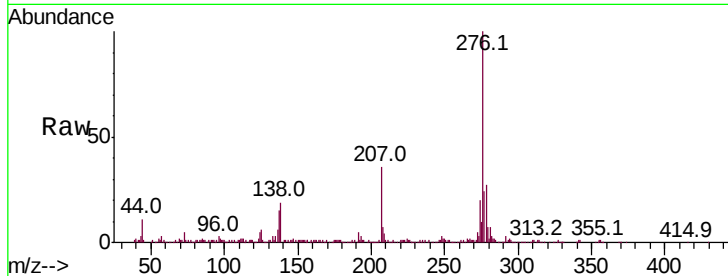




#91
 Indeno(1,2,3-cd)pyrene
 Concen: 2.783 ng/ul
 RT: 25.57 min Scan# 3840
 Delta R.T. -0.05 min
 Lab File: BN005385.D
 Acq: 30 Apr 2019 23:07

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.7	17.9	26.9
277	24.0	19.7	29.5

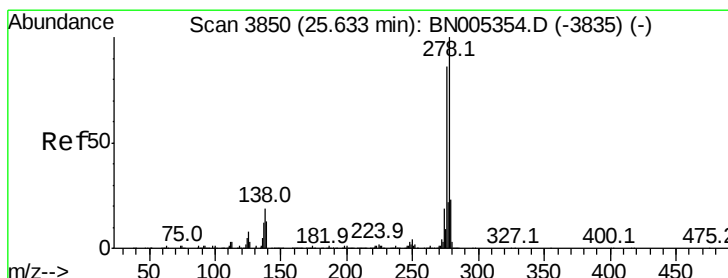
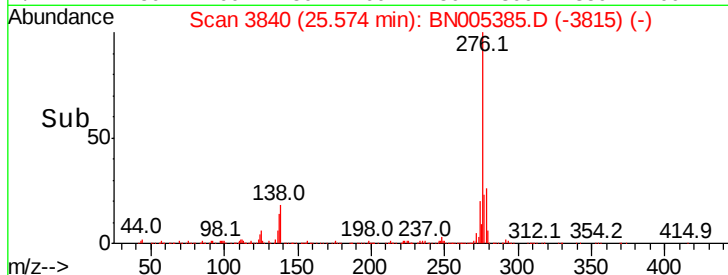
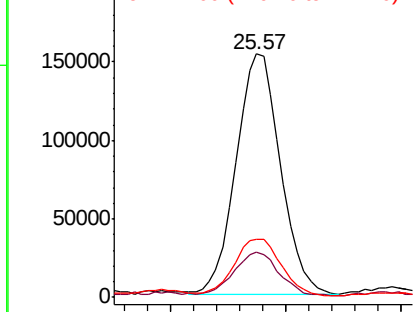


Abundance

Ion 276.00 (275.70 to 276.70): E

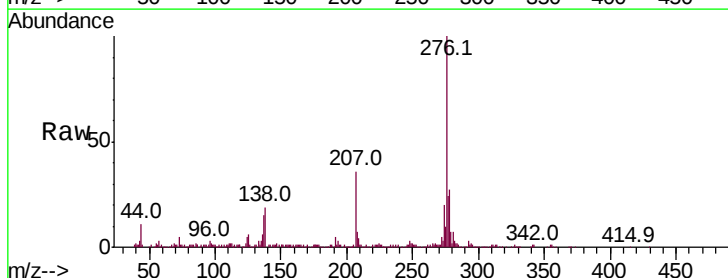
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#92
 Dibenzo(a,h)anthracene
 Concen: 1.048 ng/ul
 RT: 25.57 min Scan# 3840
 Delta R.T. -0.06 min
 Lab File: BN005385.D
 Acq: 30 Apr 2019 23:07

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.1	19.7#
279	26.1	19.4	29.0

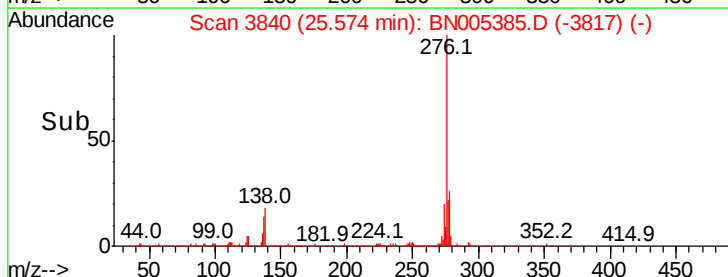
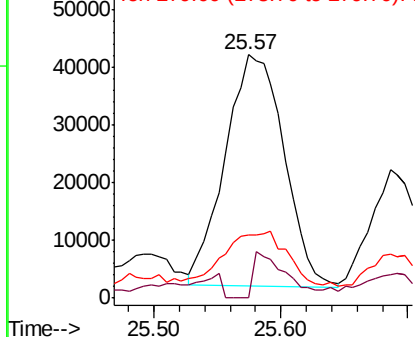


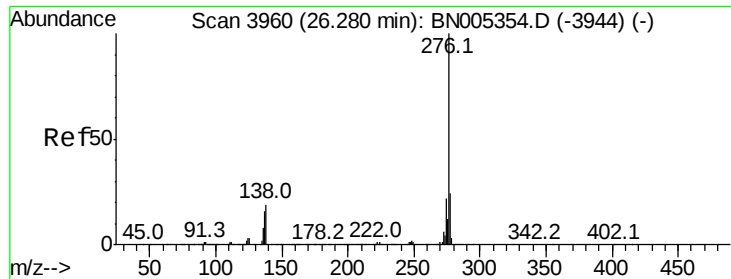
Abundance

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(a,h,i)perylene

Concen: 2.098 ng/ul

RT: 26.24 min Scan# 3953

Delta R.T. -0.05 min

Lab File: BN005385.D

Acq: 30 Apr 2019 23:07

Instrument :

BNA_N

ClientSampleId :

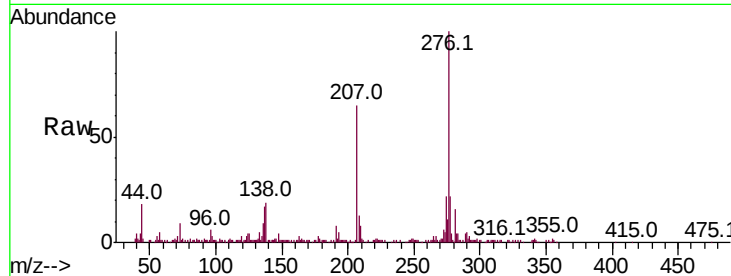
Tot Ion:276 Resp: 253735

Ion Ratio Lower Upper

276 100

138 18.9 16.7 25.1

277 22.5 18.2 27.2



Abundance Ion 276.00 (275.70 to 276.70): E

120000 Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

