

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042619\
 Data File : BN005343.D
 Acq On : 27 Apr 2019 06:51
 Operator : JU/SJ
 Sample : K2456-16
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Apr 29 02:23:06 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	477431	20.00	ng/ul	0.00
18) Naphthalene-d8	10.36	136	2015915	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.23	164	1179368	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	2649279	20.00	ng/ul	0.00
77) Chrysene-d12	21.22	240	1876145	20.00	ng/ul	0.00
85) Perylene-d12	23.43	264	2023054	20.00	ng/ul	-0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	26450	2.67	ng/uL	0.00
5) Phenol-d5	6.78	99	577076	15.39	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.94	67	357515	15.28	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	485129	16.91	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	485695	16.57	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	252499	20.35	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	289257	23.00	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.98	165	501822	17.40	ng/ul	0.00
29) 4-Chloroaniline-d4	10.49	131	374684	12.60	ng/ul	0.00
43) Dimethylphthalate-d6	13.65	166	1544047	18.04	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	1910671	18.17	ng/ul	0.00
51) 4-Nitrophenol-d4	14.44	143	223393	16.53	ng/ul	0.00
57) Fluorene-d10	15.23	176	1334795	18.58	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.37	200	131471	11.03	ng/ul	0.01
70) Anthracene-d10	17.09	188	2030061	18.28	ng/ul	0.00
78) Pyrene-d10	19.40	212	2038970	21.24	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.29	264	1593357	18.02	ng/ul	-0.02

Target Compounds

					Ovalue	
17) Hexachloroethane	8.68	117	48282	3.748	ng/ul#	6
28) Naphthalene	10.40	128	109267	1.166	ng/ul#	90
34) 2-Methylnaphthalene	12.03	142	2325074	33.883	ng/ul	98
40) 1,1'-Biphenyl	13.06	154	163250	1.858	ng/ul	99
44) Dimethylphthalate	13.69	163	449000	5.263	ng/ul	99
47) Acenaphthylene	13.96	152	8722686	84.411	ng/ul	97
49) Acenaphthene	14.29	153	963638	13.660	ng/ul	99
53) Dibenzofuran	14.63	168	484659	4.772	ng/ul	89
54) 2,4-Dinitrotoluene	14.60	165	34817	1.640	ng/ul#	63
58) Fluorene	15.29	166	4039267	50.964	ng/ul	98
60) 4-Nitroaniline	15.29	138	46641	2.732	ng/ul#	23
64) N-Nitrosodiphenylamine	15.50	169	170296	2.349	ng/ul#	74
69) Phenanthrene	17.12	178	3751718	29.078	ng/ul	99
71) Anthracene	17.12	178	3761181	28.616	ng/ul	99
76) Fluoranthene	19.22	202	6174031	43.141	ng/ul	97
79) Pyrene	19.34	202	1334265	11.045	ng/ul#	94
82) Benzo(a)anthracene	21.21	228	9072906	77.735	ng/ul#	79
84) Chrysene	21.26	228	9185463	84.797	ng/ul	96
87) Benzo(b)fluoranthene	22.78	252	6619092	58.204	ng/ul	98
88) Benzo(k)fluoranthene	22.78	252	6619092	60.943	ng/ul	98
90) Benzo(a)pyrene	23.34	252	4295608	40.186	ng/ul	97
91) Indeno(1,2,3-cd)pyrene	25.62	276	2654009	22.457	ng/ul	96
92) Dibenz(a,h)anthracene	25.62	278	900765	8.981	ng/ul	99

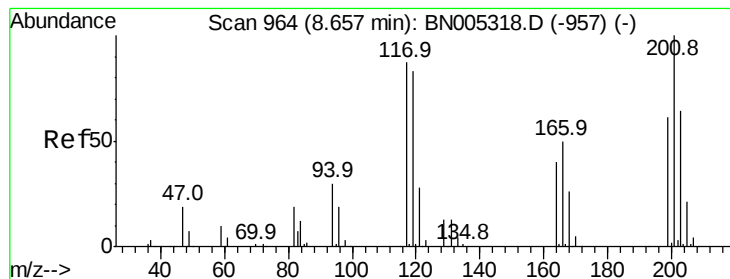
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN042619\
Data File : BN005343.D
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Quant Title : SVOA CALIBRATION
QLast Update : Thu Apr 25 03:19:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Benzo(q,h,i)perylene	26.28	276	2105943	21.551	ng/ul	97

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



#17

Hexachloroethane

Concen: 3.748 ng/ul

RT: 8.68 min Scan# 968

Delta R.T. 0.02 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

Instrument :

BNA_N

ClientSampleId :

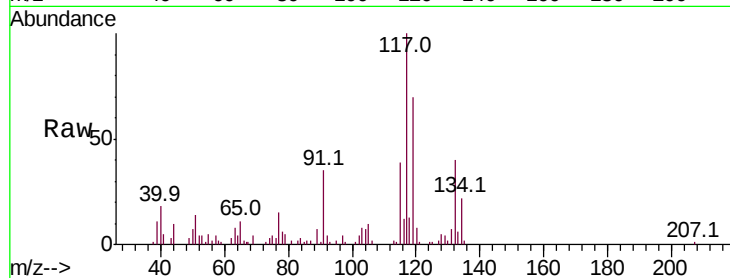
Tot Ion:117 Resp: 48282

Ion Ratio Lower Upper

117 100

201 0.0 84.1 126.1#

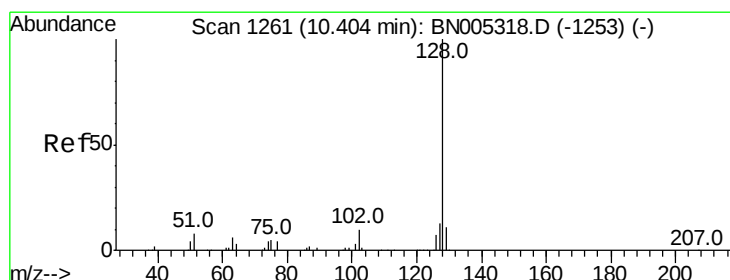
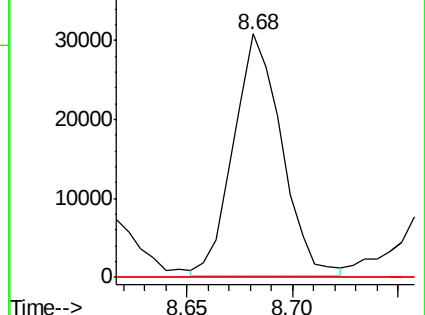
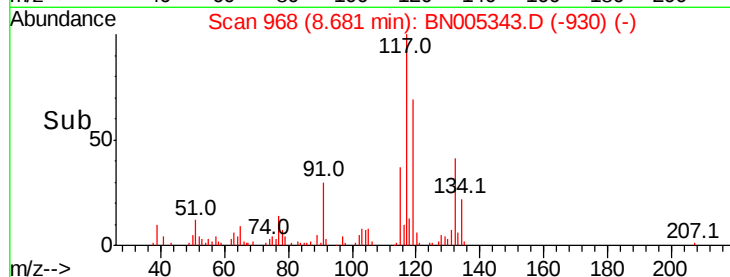
199 0.0 51.2 76.8#



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: 1.166 ng/ul

RT: 10.40 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

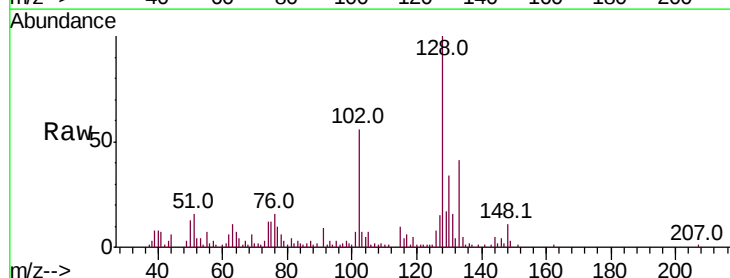
Tgt Ion:128 Resp: 109267

Ion Ratio Lower Upper

128 100

129 17.2 9.2 13.8#

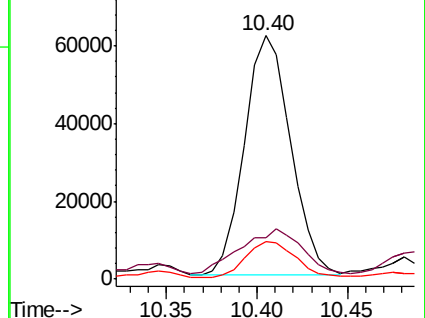
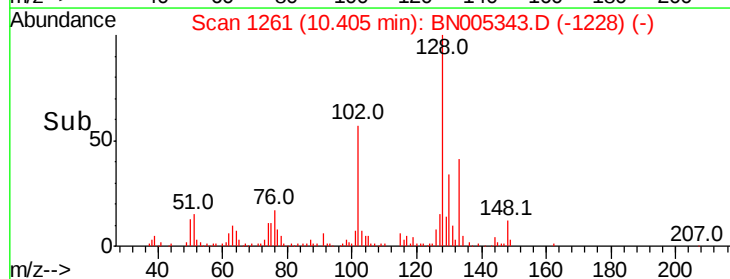
127 15.5 10.7 16.1

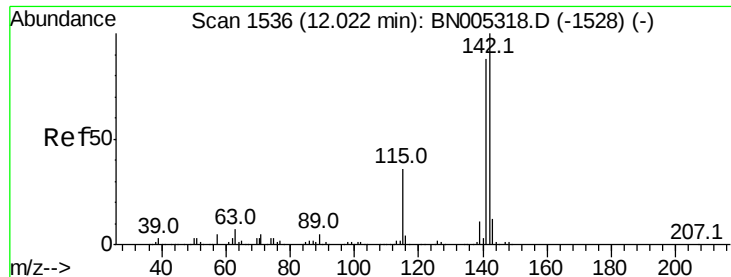


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

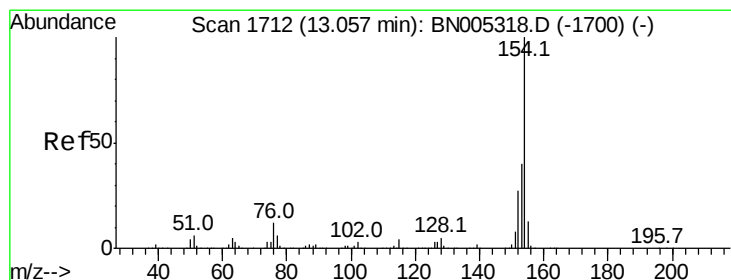
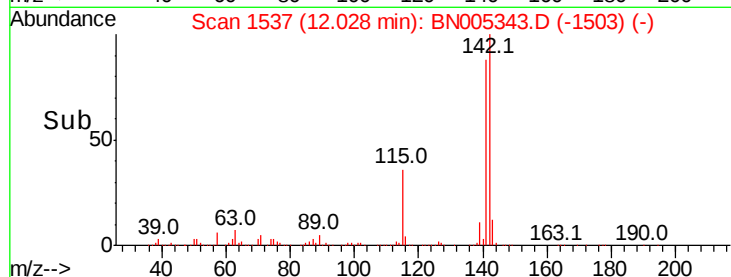
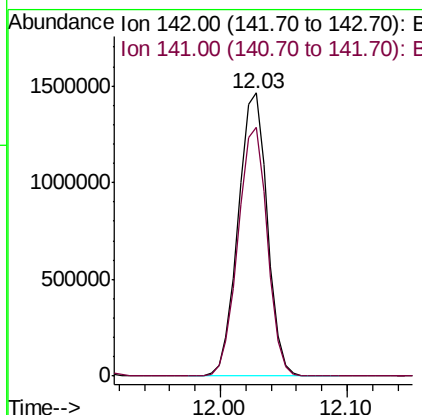
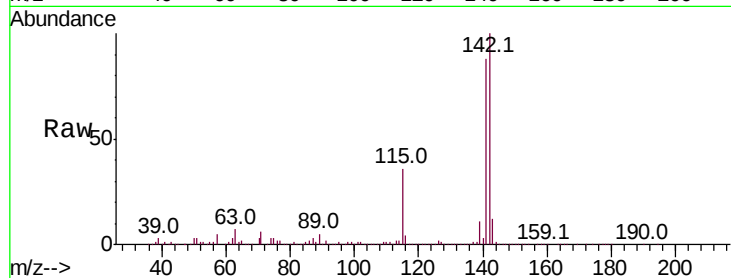




#34
2-Methylnaphthalene
Concen: 33.883 ng/ul
RT: 12.03 min Scan# 1537
Delta R.T. 0.00 min
Lab File: BN005343.D
Acq: 27 Apr 2019 06:51

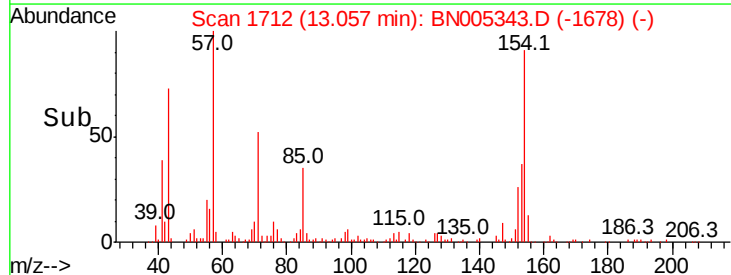
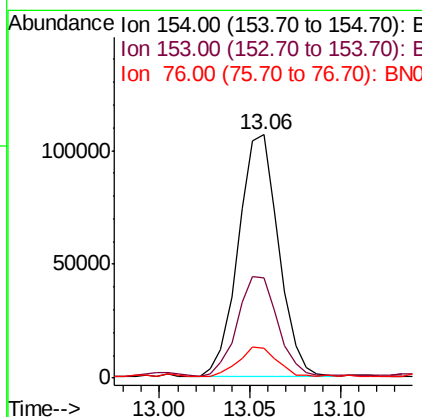
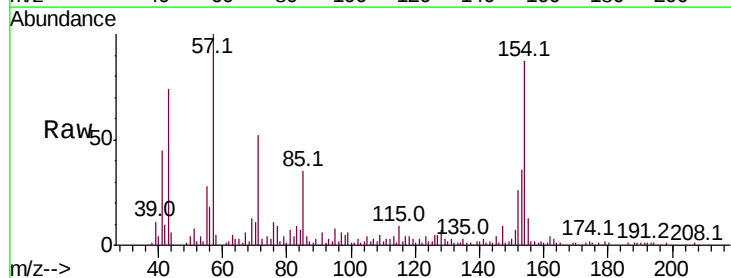
Instrument :
BNA_N
ClientSampleId :

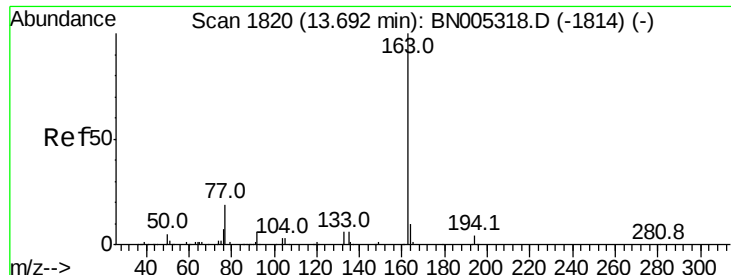
Tot Ion:142 Resp: 2325074
Ion Ratio Lower Upper
142 100
141 88.1 72.0 108.0



#40
1,1'-Biphenyl
Concen: 1.858 ng/ul
RT: 13.06 min Scan# 1712
Delta R.T. 0.00 min
Lab File: BN005343.D
Acq: 27 Apr 2019 06:51

Tgt Ion:154 Resp: 163250
Ion Ratio Lower Upper
154 100
153 41.4 32.6 49.0
76 12.0 10.4 15.6





#44

Dimethylphthalate

Concen: 5.263 ng/ul

RT: 13.69 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

Instrument :

BNA_N

ClientSampleId :

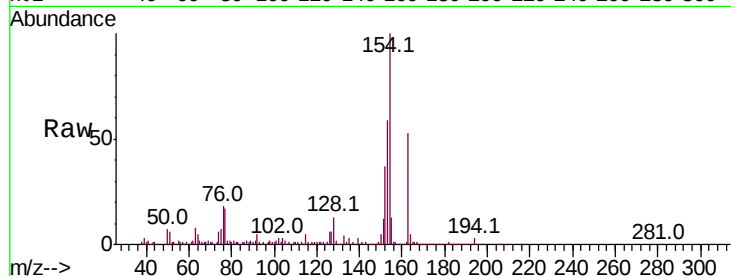
Tot Ion:163 Resp: 449000

Ion Ratio Lower Upper

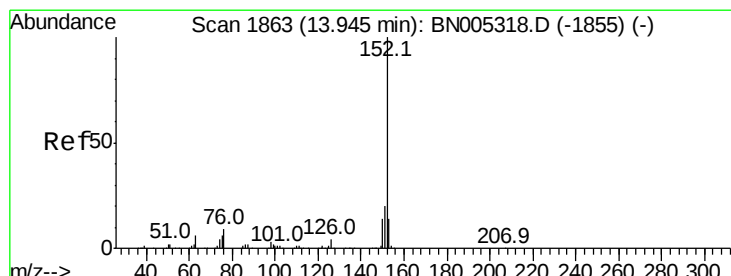
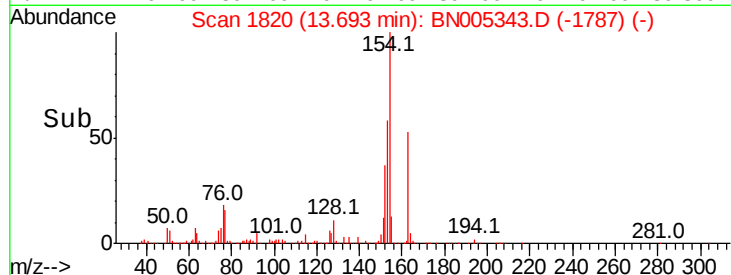
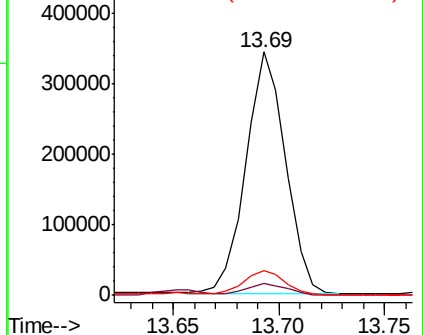
163 100

194 4.8 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: 84.411 ng/ul

RT: 13.96 min Scan# 1865

Delta R.T. 0.01 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

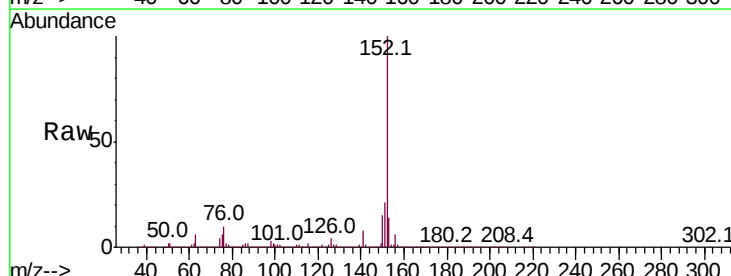
Tgt Ion:152 Resp: 8722686

Ion Ratio Lower Upper

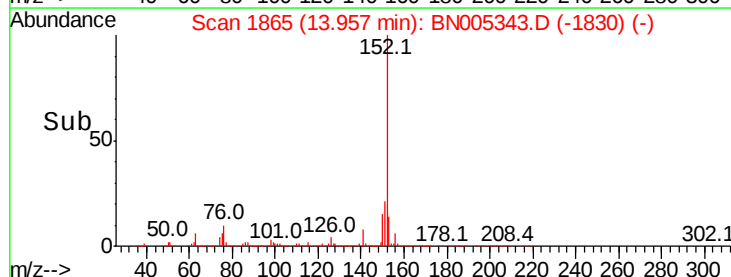
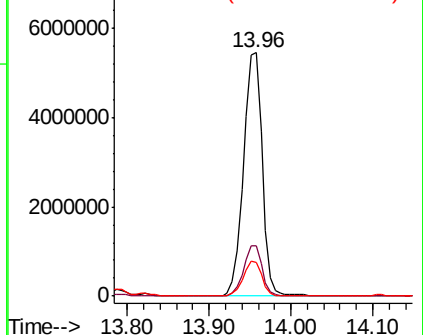
152 100

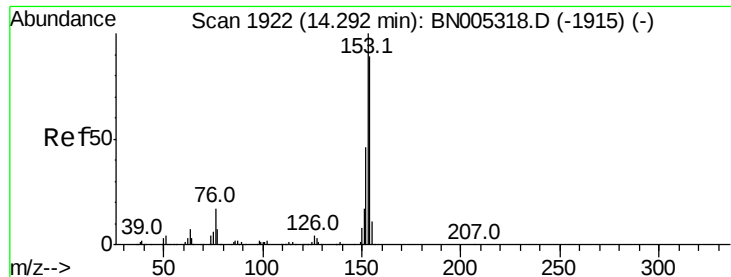
151 20.7 15.8 23.8

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: 13.660 ng/ul

RT: 14.29 min Scan# 1922

Delta R.T. -0.01 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

Instrument :

BNA_N

ClientSampleId :

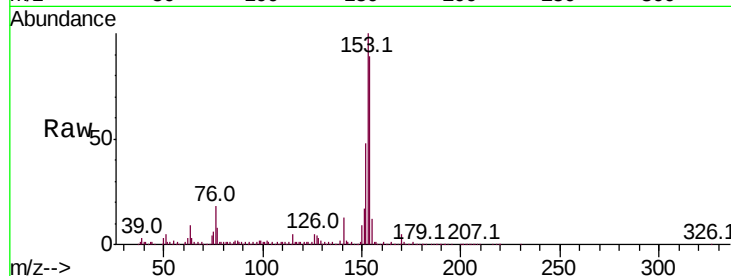
Tot Ion:153 Resp: 963638

Ion Ratio Lower Upper

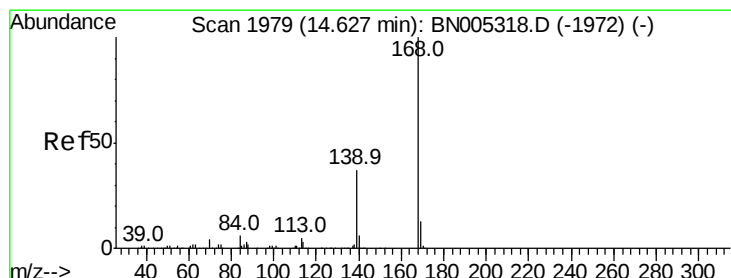
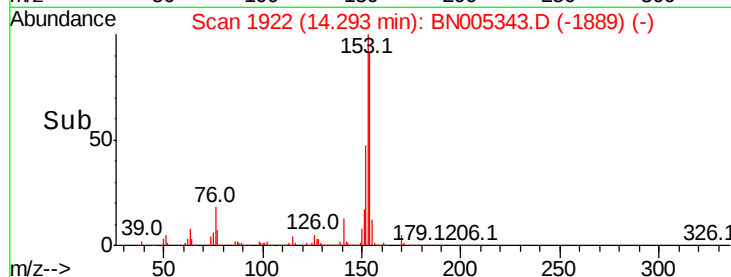
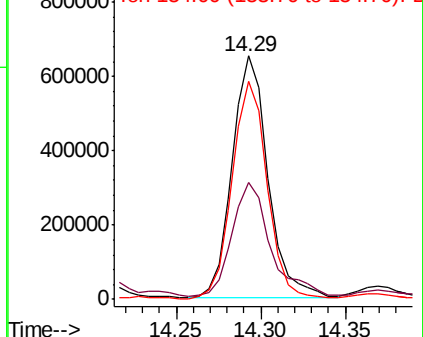
153 100

152 48.2 37.4 56.0

154 89.4 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: 4.772 ng/ul

RT: 14.63 min Scan# 1980

Delta R.T. 0.00 min

Lab File: BN005343.D

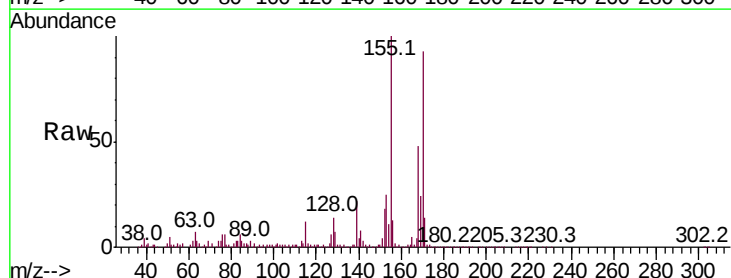
Acq: 27 Apr 2019 06:51

Tgt Ion:168 Resp: 484659

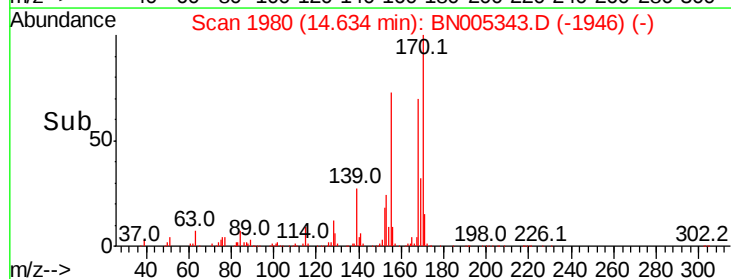
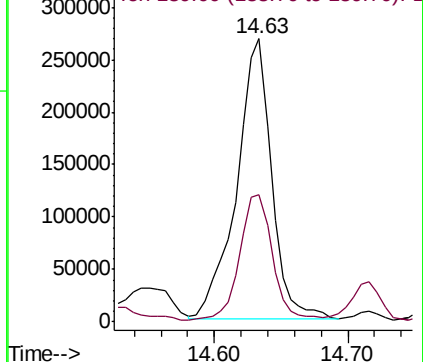
Ion Ratio Lower Upper

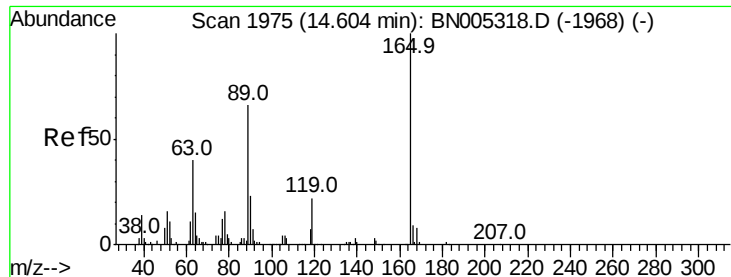
168 100

139 45.1 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: 1.640 ng/ul

RT: 14.60 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

Instrument :

BNA_N

ClientSampled :

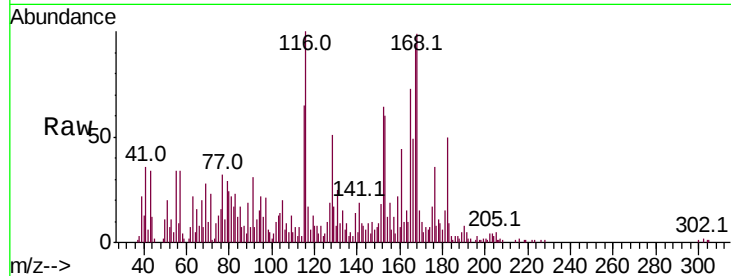
Tot Ion:165 Resp: 34817

Ion Ratio Lower Upper

165 100

63 30.7 38.9 58.3#

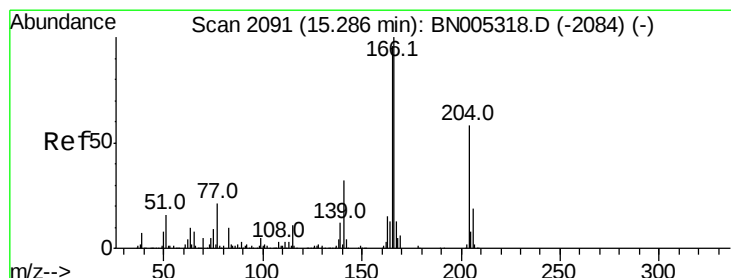
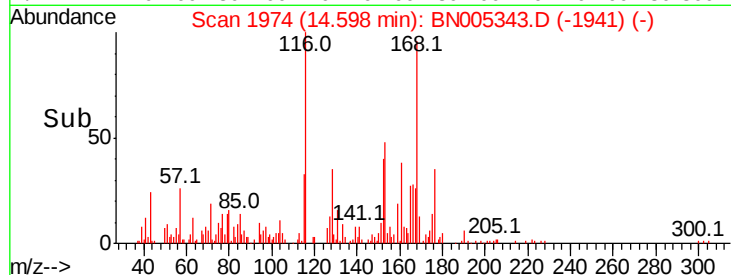
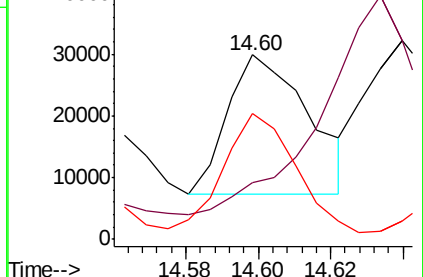
182 68.3 2.6 3.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BN

Ion 182.00 (181.70 to 182.70): E



#58

Fluorene

Concen: 50.964 ng/ul

RT: 15.29 min Scan# 2091

Delta R.T. 0.00 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

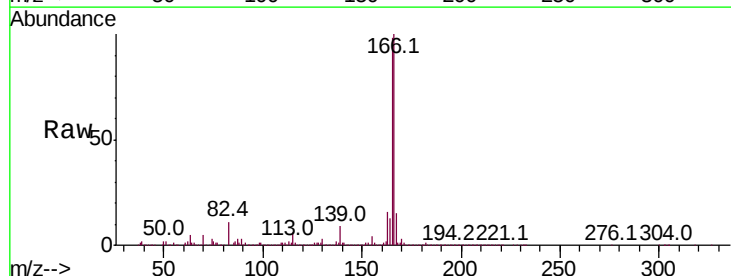
Tgt Ion:166 Resp: 4039267

Ion Ratio Lower Upper

166 100

165 98.5 80.0 120.0

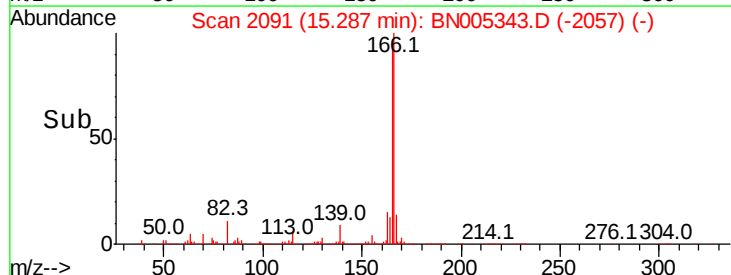
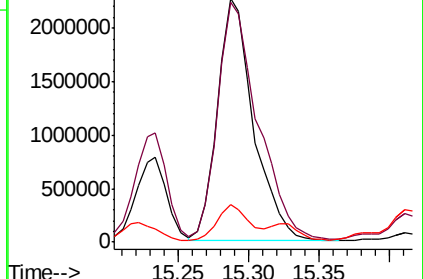
167 15.3 10.7 16.1

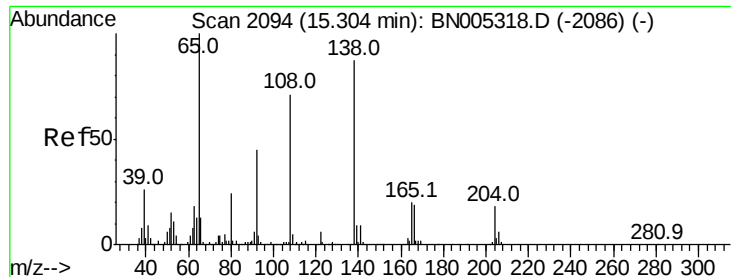


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#60

4-Nitroaniline

Concen: 2.732 ng/ul

RT: 15.29 min Scan# 2092

Delta R.T. -0.01 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

Instrument :

BNA_N

ClientSampleId :

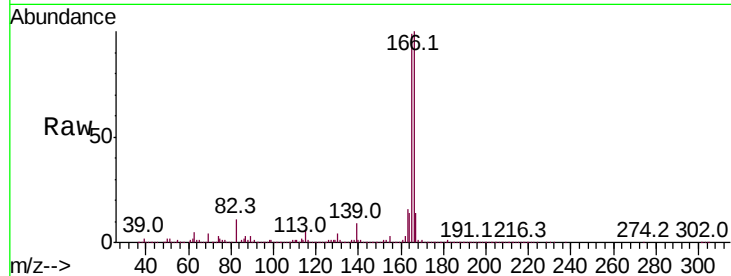
Tot Ion:138 Resp: 46641

Ion Ratio Lower Upper

138 100

92 9.1 45.3 67.9#

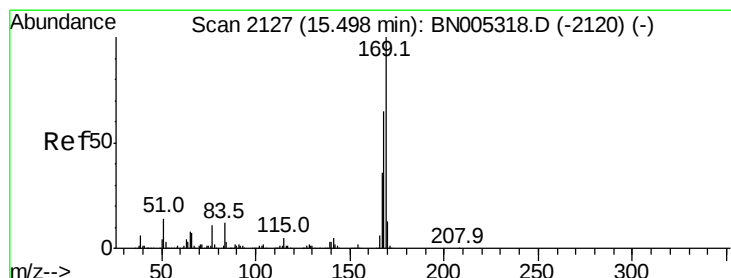
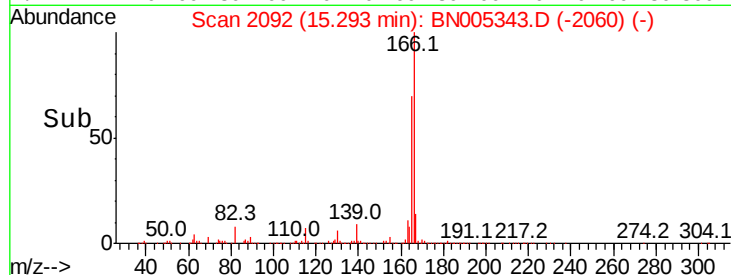
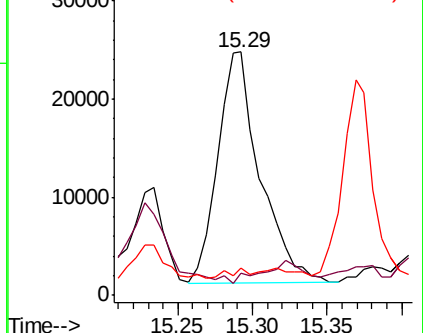
108 11.0 73.2 109.8#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BNA

Ion 108.00 (107.70 to 108.70): E



#64

N-Nitrosodiphenylamine

Concen: 2.349 ng/ul

RT: 15.50 min Scan# 2128

Delta R.T. 0.00 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

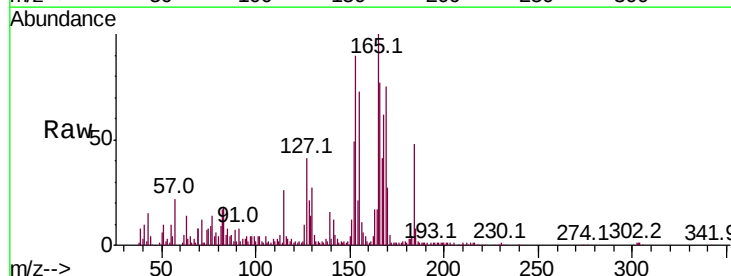
Tgt Ion:169 Resp: 170296

Ion Ratio Lower Upper

169 100

168 82.8 52.2 78.2#

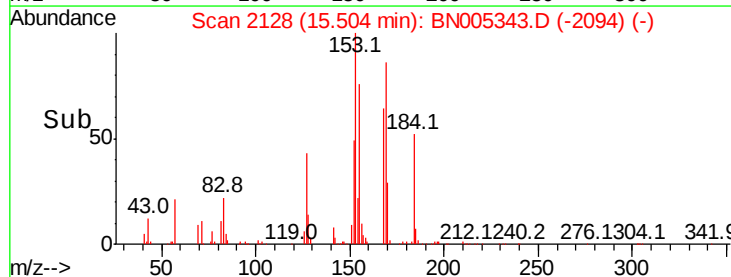
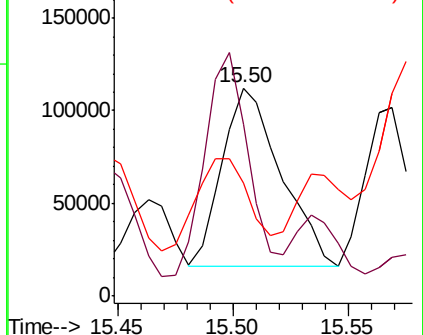
167 54.2 27.7 41.5#

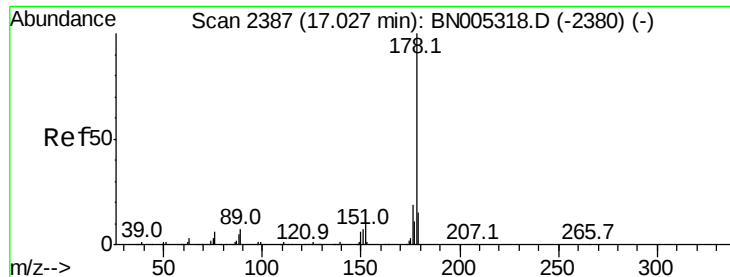


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 29.078 ng/ul

RT: 17.12 min Scan# 2403

Delta R.T. 0.09 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

Instrument :

BNA_N

ClientSampleId :

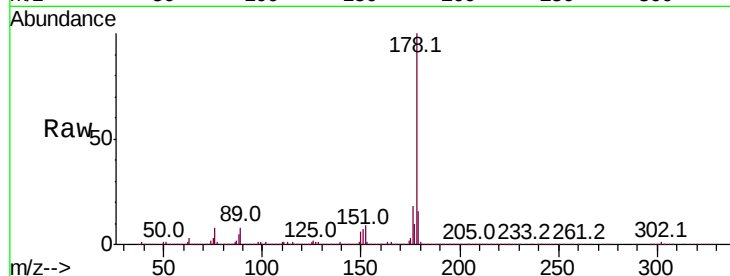
Tot Ion:178 Resp: 3751718

Ion Ratio Lower Upper

178 100

179 15.7 12.2 18.4

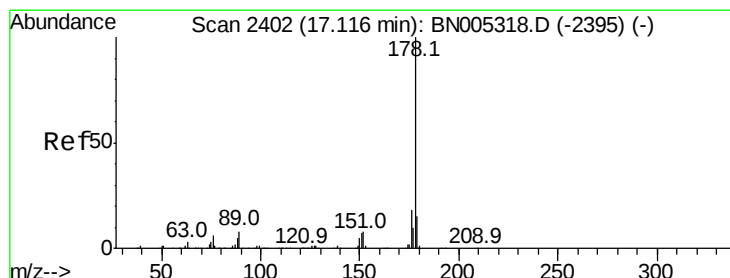
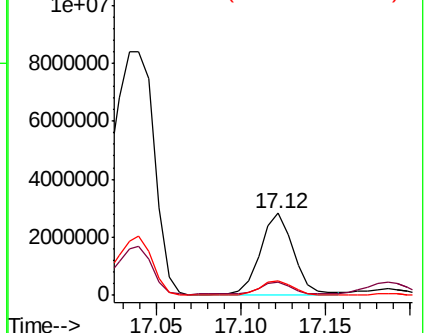
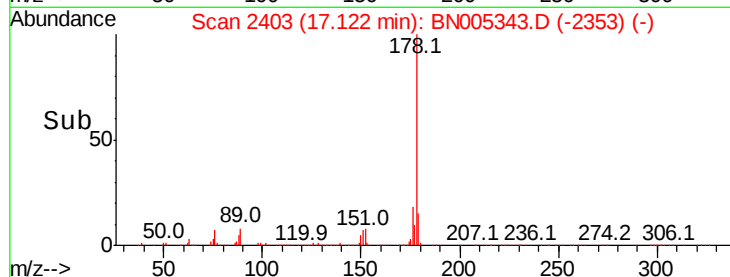
176 18.3 15.1 22.7



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: 28.616 ng/ul

RT: 17.12 min Scan# 2403

Delta R.T. 0.01 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

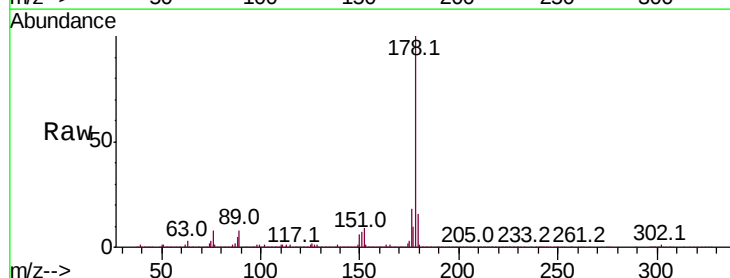
Tgt Ion:178 Resp: 3761181

Ion Ratio Lower Upper

178 100

179 15.7 12.3 18.5

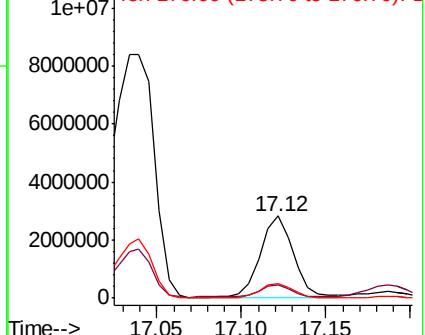
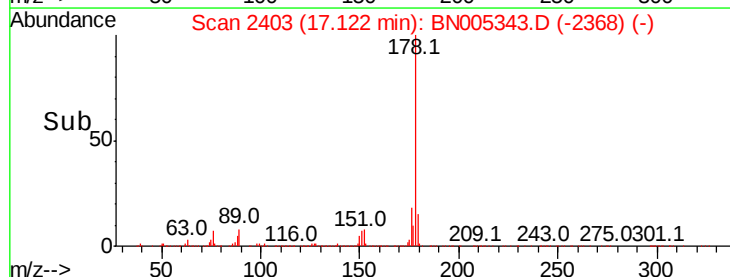
176 18.3 15.1 22.7

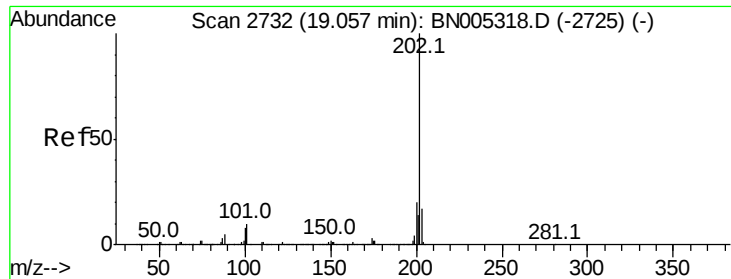


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

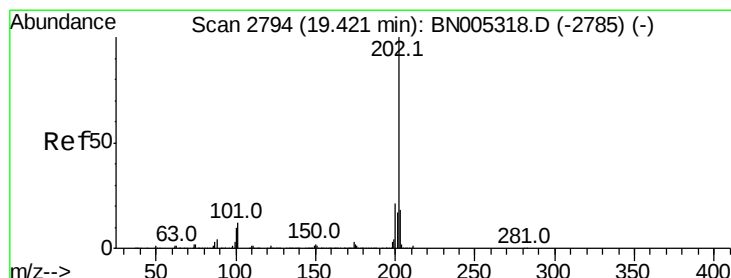
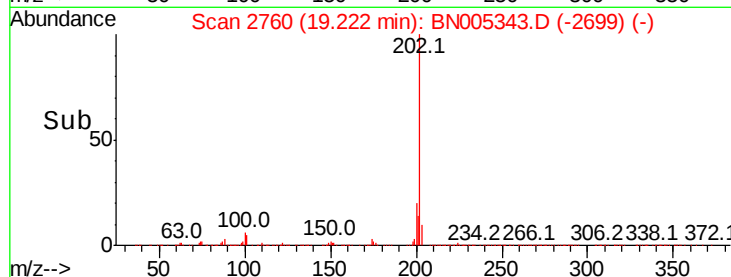
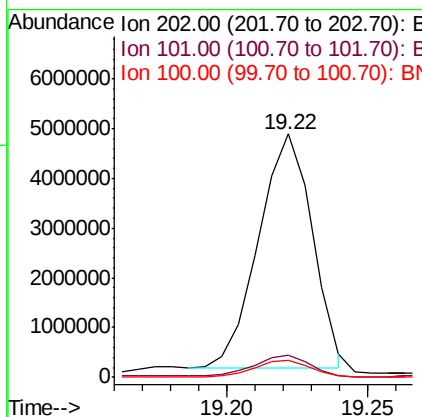
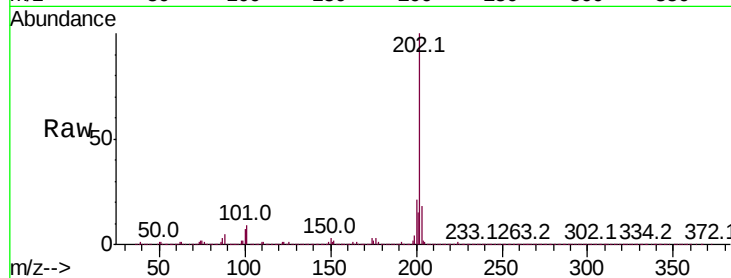




#76
 Fluoranthene
 Concen: 43.141 ng/ul
 RT: 19.22 min Scan# 2760
 Delta R.T. 0.16 min
 Lab File: BN005343.D
 Acq: 27 Apr 2019 06:51

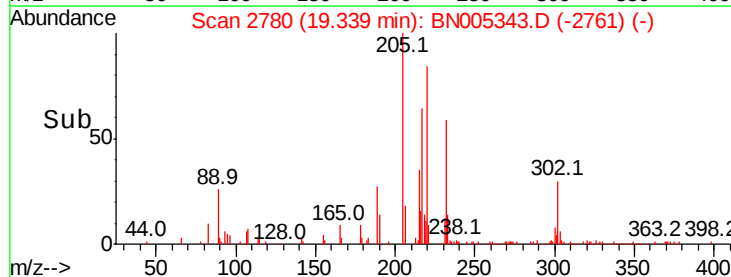
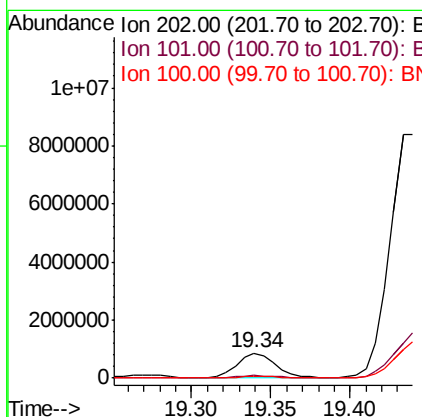
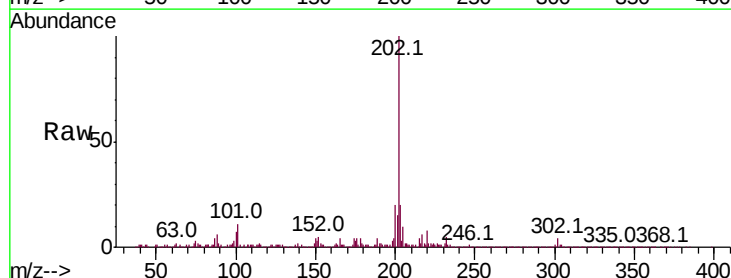
Instrument :
 BNA_N
 ClientSampleId :

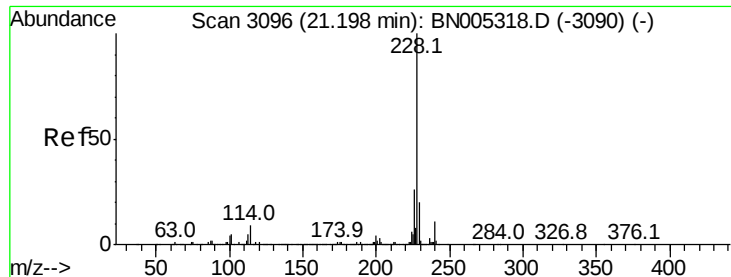
Tot Ion:202 Resp: 6174031
 Ion Ratio Lower Upper
 202 100
 101 9.3 8.6 12.8
 100 7.2 6.3 9.5



#79
 Pyrene
 Concen: 11.045 ng/ul
 RT: 19.34 min Scan# 2780
 Delta R.T. -0.09 min
 Lab File: BN005343.D
 Acq: 27 Apr 2019 06:51

Tgt Ion:202 Resp: 1334265
 Ion Ratio Lower Upper
 202 100
 101 10.7 10.3 15.5
 100 7.1 7.9 11.9#





#82

Benzo(a)anthracene

Concen: 77.735 ng/ul

RT: 21.21 min Scan# 3098

Delta R.T. 0.00 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

Instrument :

BNA_N

ClientSampleId :

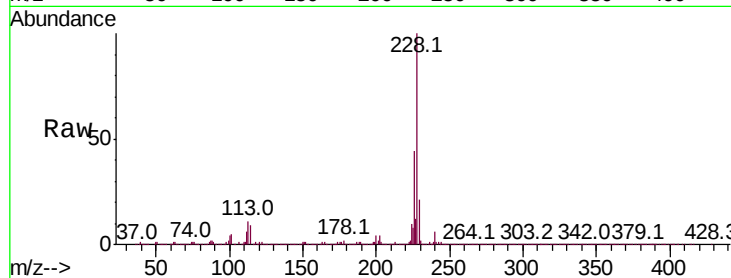
Tot Ion:228 Resp: 9072906

Ion	Ratio	Lower	Upper
228	100		
229	21.4	15.8	23.6
226	43.8	21.4	32.2

228 100

229 21.4 15.8 23.6

226 43.8 21.4 32.2

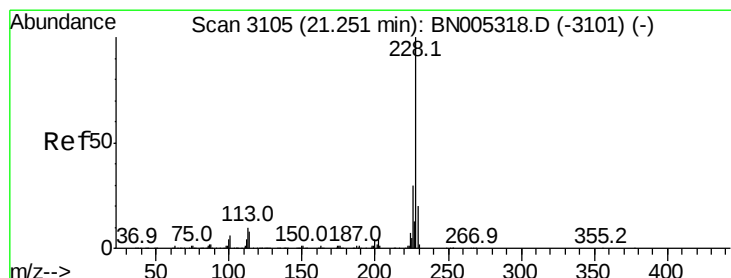
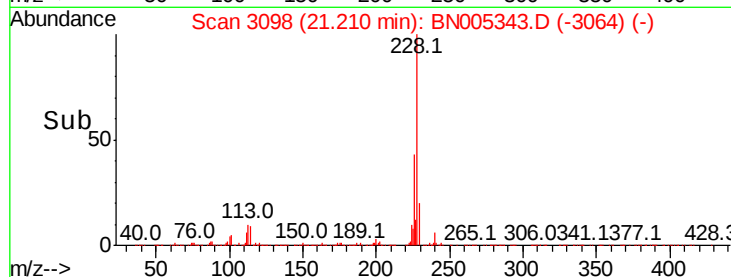
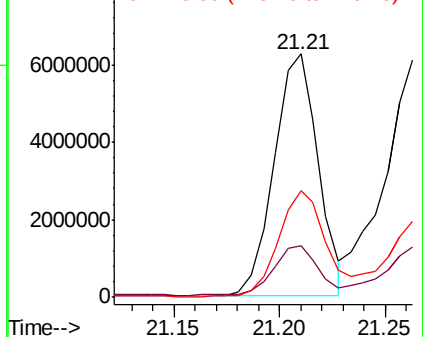


Abundance

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: 84.797 ng/ul

RT: 21.26 min Scan# 3107

Delta R.T. 0.00 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

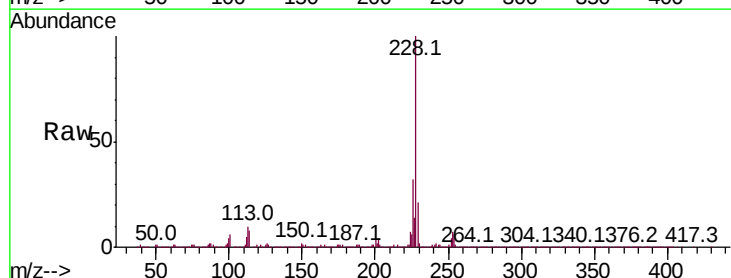
Tgt Ion:228 Resp: 9185463

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	21.2	15.4	23.0

228 100

226 32.2 24.0 36.0

229 21.2 15.4 23.0

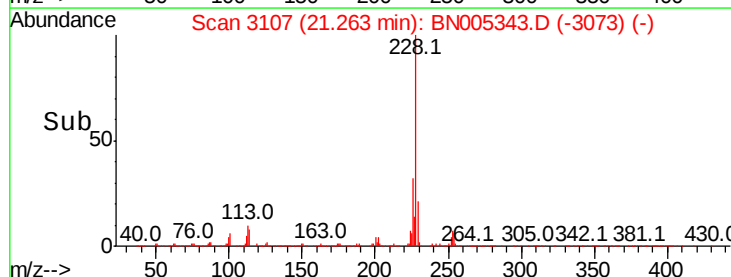
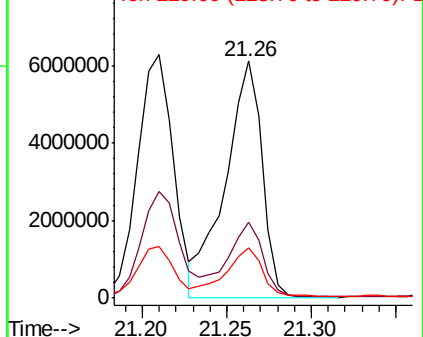


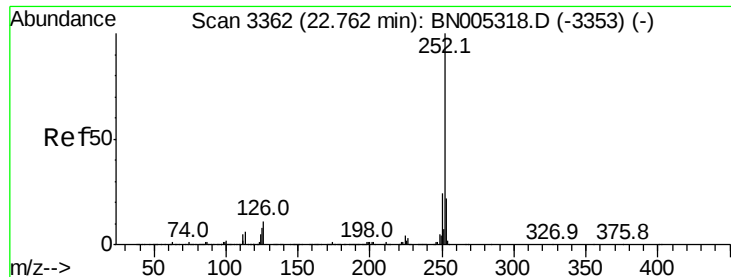
Abundance

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: 58.204 ng/ul

RT: 22.78 min Scan# 3365

Delta R.T. -0.01 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

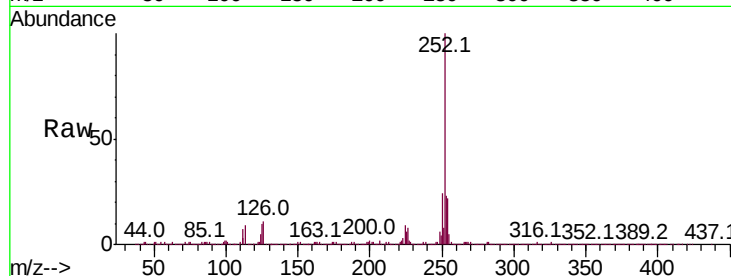
Instrument :

BNA_N

ClientSampleId :

Tot Ion:252 Resp: 6619092

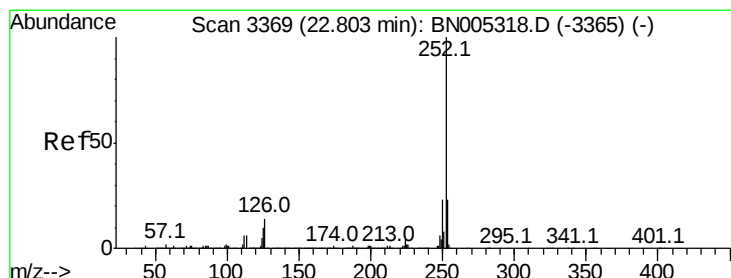
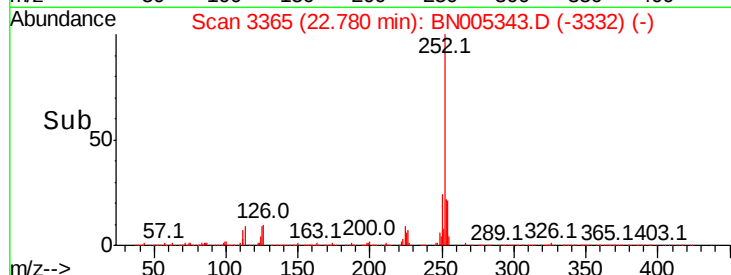
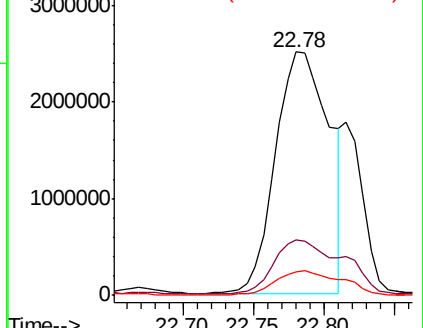
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	9.5	8.4	12.6



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: 60.943 ng/ul

RT: 22.78 min Scan# 3365

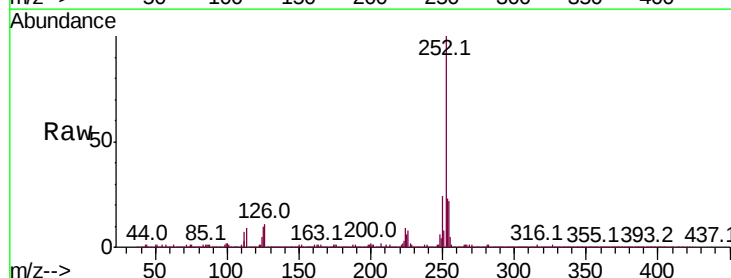
Delta R.T. -0.05 min

Lab File: BN005343.D

Acq: 27 Apr 2019 06:51

Tgt Ion:252 Resp: 6619092

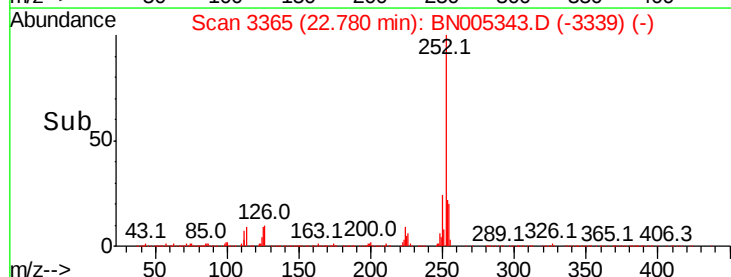
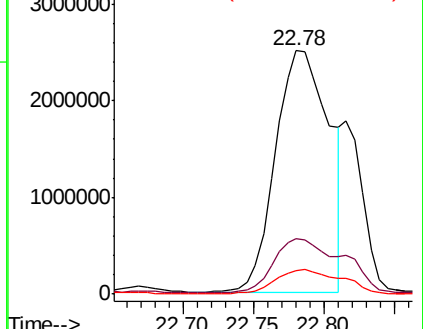
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	9.5	7.5	11.3

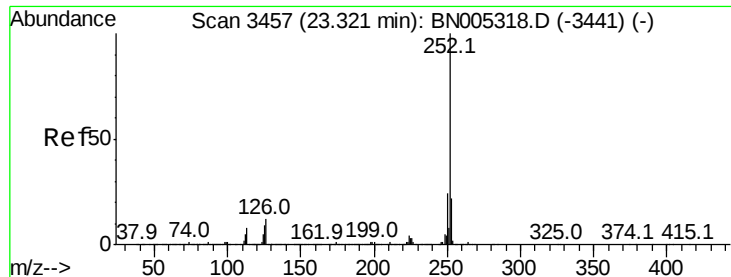


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

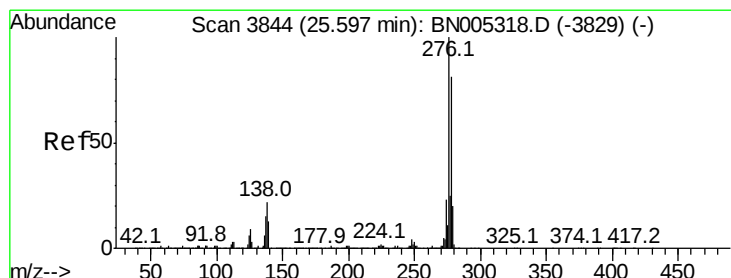
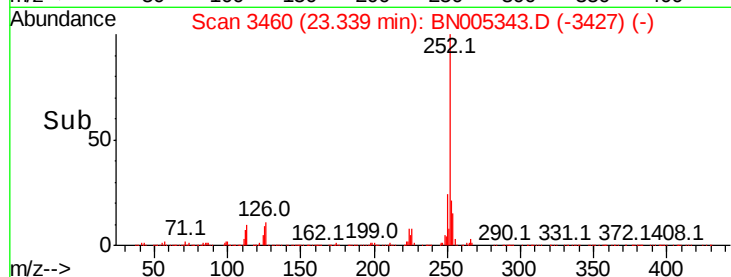
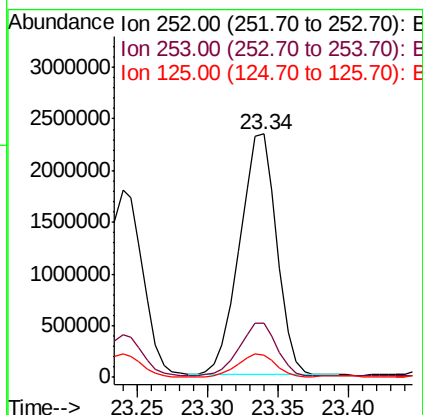
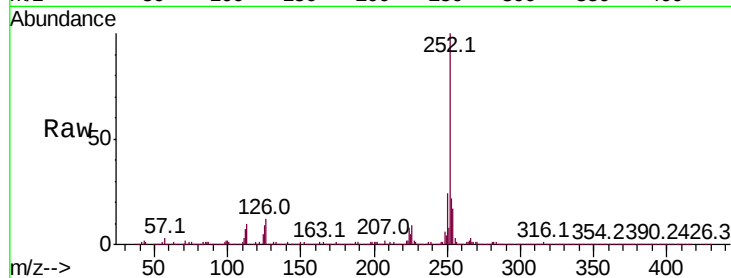




#90
Benzo(a)pyrene
Concen: 40.186 ng/ul
RT: 23.34 min Scan# 3460
Delta R.T. -0.01 min
Lab File: BN005343.D
Acq: 27 Apr 2019 06:51

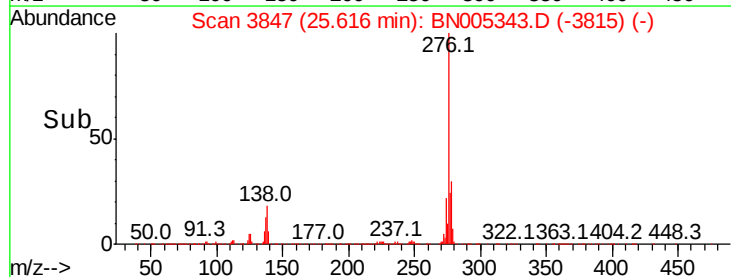
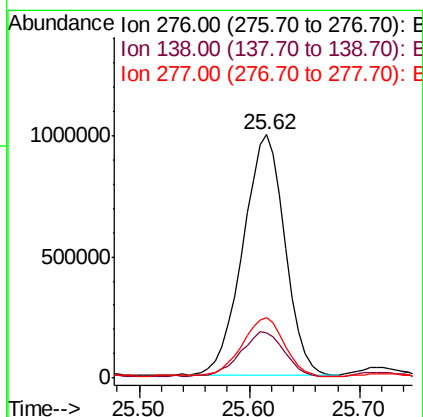
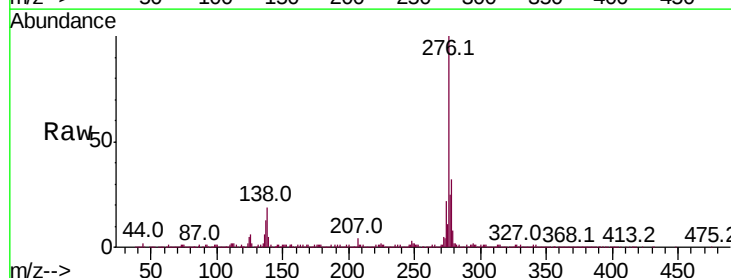
Instrument :
BNA_N
ClientSampleId :

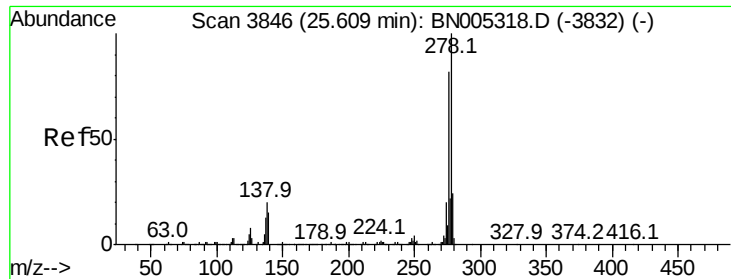
Tot Ion:252 Resp: 4295608
Ion Ratio Lower Upper
252 100
253 22.3 17.3 25.9
125 9.0 8.6 13.0



#91
Indeno(1,2,3-cd)pyrene
Concen: 22.457 ng/ul
RT: 25.62 min Scan# 3847
Delta R.T. -0.01 min
Lab File: BN005343.D
Acq: 27 Apr 2019 06:51

Tgt Ion:276 Resp: 2654009
Ion Ratio Lower Upper
276 100
138 18.7 17.9 26.9
277 24.7 19.7 29.5



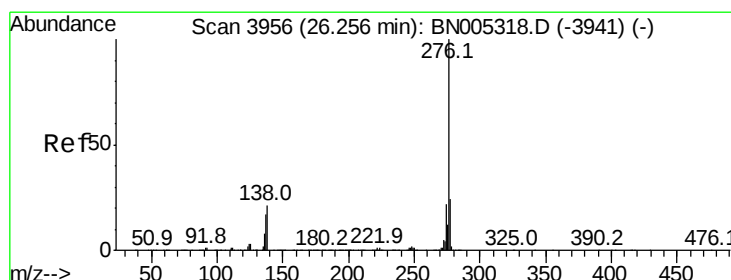
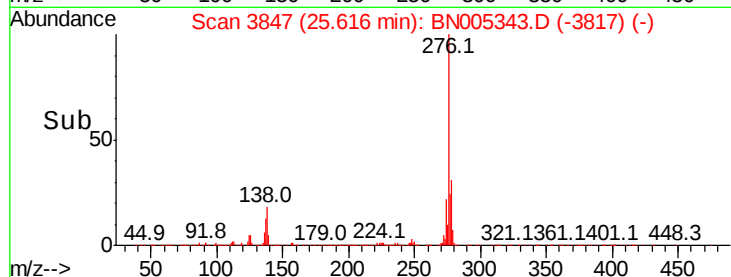
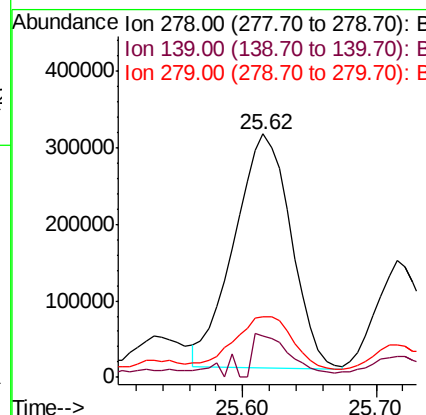
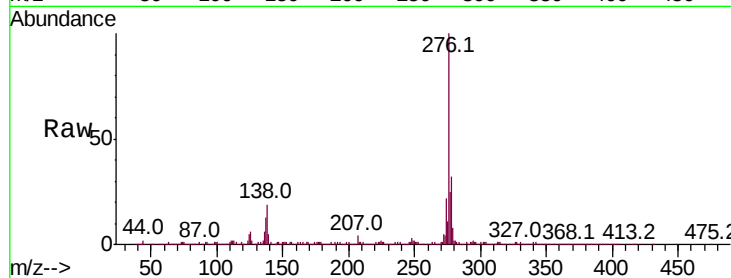


#92
Dibenzo(a,h)anthracene
Concen: 8.981 ng/ul
RT: 25.62 min Scan# 3847
Delta R.T. -0.02 min
Lab File: BN005343.D
Acq: 27 Apr 2019 06:51

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 900765

Ion	Ratio	Lower	Upper
278	100		
139	17.1	13.1	19.7
279	24.9	19.4	29.0



#93
Benzo(g,h,i)perylene
Concen: 21.551 ng/ul
RT: 26.28 min Scan# 3960
Delta R.T. -0.01 min
Lab File: BN005343.D
Acq: 27 Apr 2019 06:51

Tgt Ion:276 Resp: 2105943

Ion	Ratio	Lower	Upper
276	100		
138	19.5	16.7	25.1
277	24.4	18.2	27.2

