

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN013020\
 Data File : BN009517.D
 Acq On : 31 Jan 2020 18:48
 Operator : CG/JU
 Sample : L1271-10
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Jan 31 22:19:56 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN012220MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jan 22 15:13:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	167163	20.00	ng/ul	-0.01
18) Naphthalene-d8	10.21	136	665494	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.09	164	518789	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.85	188	846380	20.00	ng/ul	0.00
77) Chrysene-d12	21.06	240	760775	20.00	ng/ul	0.00
85) Perylene-d12	23.17	264	819946	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.09	96	11083	2.74	ng/uL	0.00
5) Phenol-d5	6.65	99	205754	13.88	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.81	67	162225	15.42	ng/ul	0.00
9) 2-Chlorophenol-d4	7.00	132	165036	15.25	ng/ul	0.00
13) 4-Methylphenol-d8	8.16	113	139497	11.82	ng/ul	0.00
19) Nitrobenzene-d5	8.59	128	93211	19.25	ng/ul	-0.01
22) 2-Nitrophenol-d4	9.31	143	96156	18.94	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.85	165	157991	15.70	ng/ul	0.00
29) 4-Chloroaniline-d4	10.35	131	76664	6.31	ng/ul	0.00
43) Dimethylphthalate-d6	13.52	166	609657	15.88	ng/ul	0.00
46) Acenaphthylene-d8	13.79	160	647909	14.22	ng/ul	0.00
51) 4-Nitrophenol-d4	14.33	143	81884	11.46	ng/ul	0.00
57) Fluorene-d10	15.10	176	510764	15.16	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.21	200	782	0.15	ng/ul	-0.02
70) Anthracene-d10	16.96	188	718810	18.36	ng/ul	0.01
78) Pyrene-d10	19.25	212	766637	18.73	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.04	264	730911	17.66	ng/ul	0.00

Target Compounds

					Ovalue	
4) Benzaldehyde	6.62	77	17292	2.222	ng/ul#	1
6) Phenol	6.68	94	24622	1.585	ng/ul#	82
14) Acetophenone	8.25	105	82105	4.307	ng/ul#	31
17) Hexachloroethane	8.47	117	133624	25.617	ng/ul#	9
20) Nitrobenzene	8.63	77	17476	1.228	ng/ul#	1
28) Naphthalene	10.33	128	39457	1.102	ng/ul#	1
32) Caprolactam	11.15	113	10900	3.228	ng/ul#	1
34) 2-Methylnaphthalene	11.75	142	272064	11.035	ng/ul#	71
40) 1,1'-Biphenyl	12.92	154	3705997	94.340	ng/ul	99
44) Dimethylphthalate	13.56	163	114545	2.898	ng/ul#	96
47) Acenaphthylene	13.82	152	10842282	220.455	ng/ul	98
49) Acenaphthene	14.16	153	1609263	47.962	ng/ul	97
53) Dibenzofuran	14.50	168	1751893	37.580	ng/ul	95
54) 2,4-Dinitrotoluene	14.47	165	161355	14.384	ng/ul#	49
58) Fluorene	15.16	166	8770450	224.526	ng/ul	99
60) 4-Nitroaniline	15.16	138	99277	12.522	ng/ul#	13
64) N-Nitrosodiphenylamine	15.37	169	226357	9.032	ng/ul#	92
69) Phenanthrene	16.99	178	6393334	133.873	ng/ul	97
71) Anthracene	16.99	178	6393334	131.484	ng/ul	99
76) Fluoranthene	18.92	202	8764978	160.103	ng/ul	97
79) Pyrene	19.19	202	547753	9.944	ng/ul	96
82) Benzo(a)anthracene	21.04	228	4823291	93.100	ng/ul#	82
84) Chrysene	21.09	228	4027553	79.805	ng/ul	93

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Quant Title : SVOA CALIBRATION
QLast Update : Wed Jan 22 15:13:20 2020
Response via : Initial Calibration

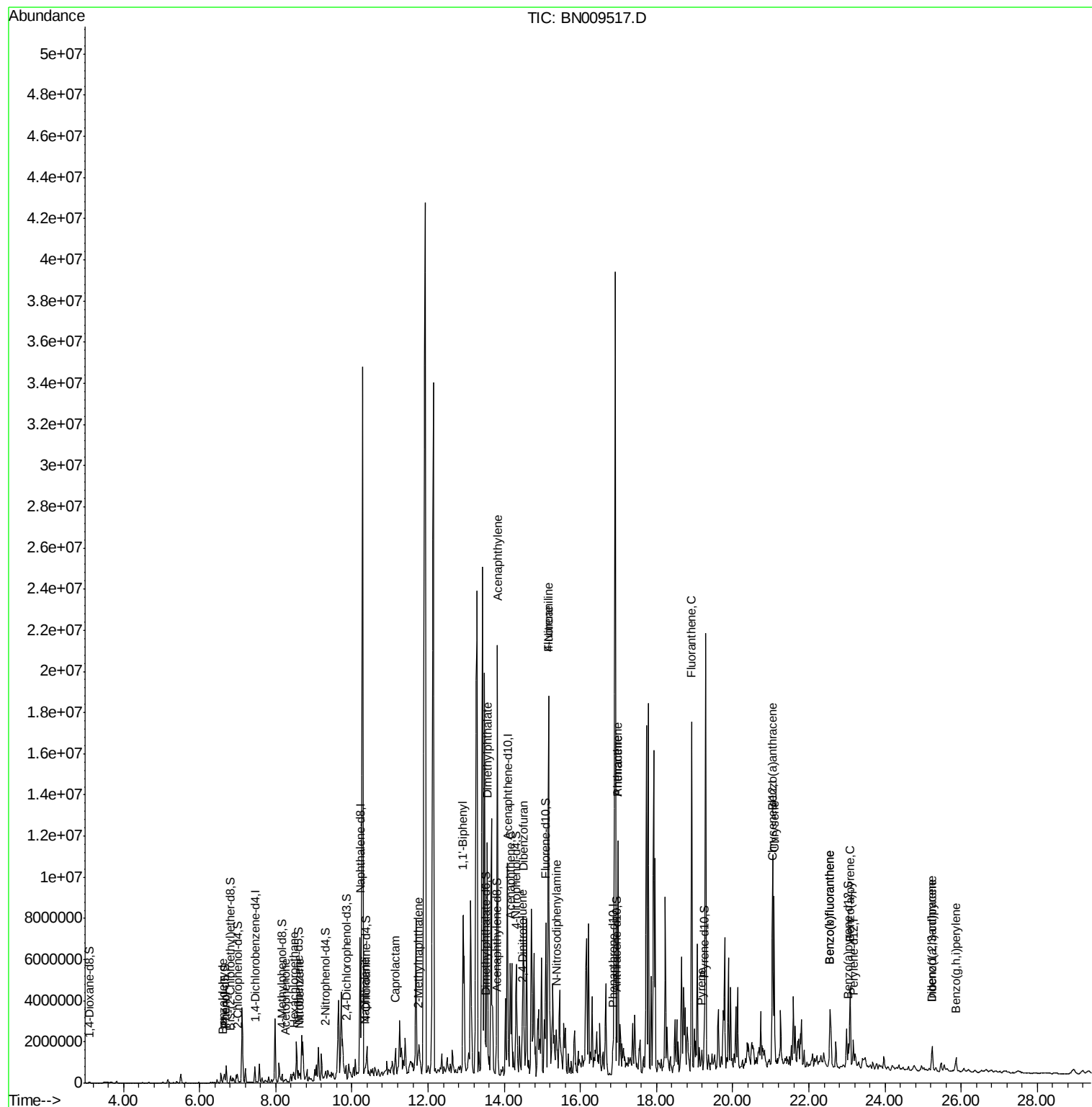
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Benzo(b)fluoranthene	22.56	252	2451686	47.289	ng/ul	98
88) Benzo(k)fluoranthene	22.56	252	2451686	48.094	ng/ul#	98
90) Benzo(a)pyrene	23.09	252	2377618	51.092	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.24	276	914423	16.214	ng/ul	95
92) Dibenzo(a,h)anthracene	25.24	278	329611	6.927	ng/ul#	94
93) Benzo(a,h,i)perylene	25.86	276	694558	14.806	ng/ul	98

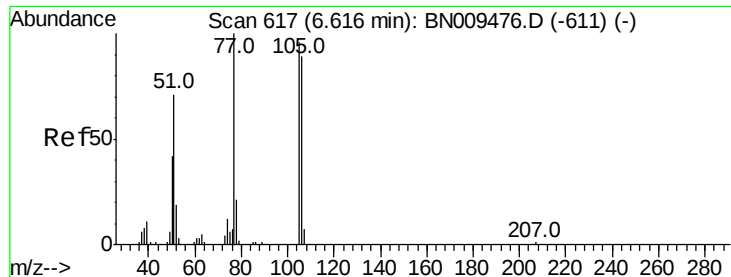
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 2.222 ng/ul

RT: 6.62 min Scan# 618

Delta R.T. -0.00 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Instrument :

BNA_N

ClientSampled :

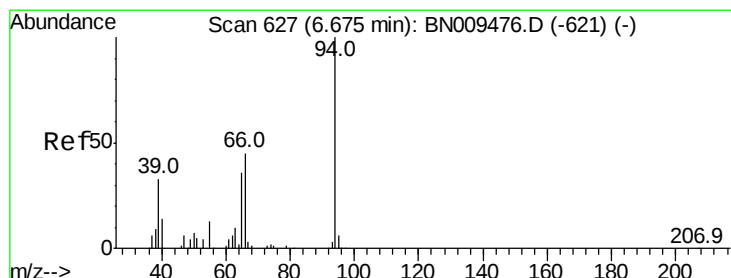
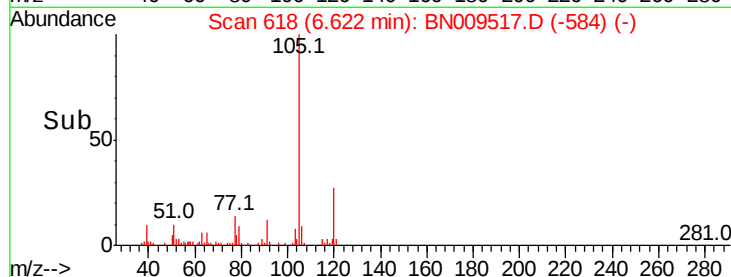
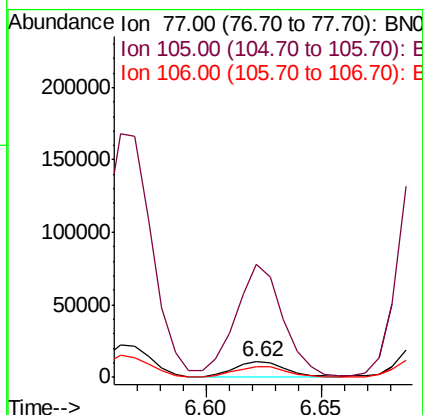
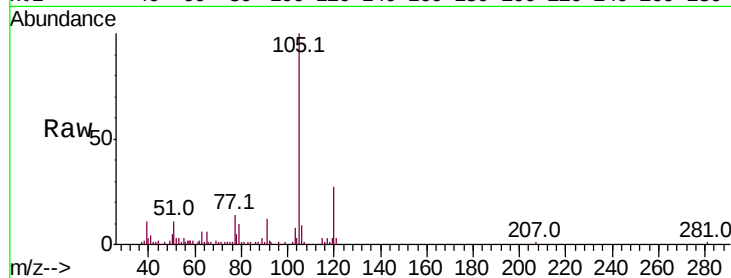
Tot Ion: 77 Resp: 17292

Ion Ratio Lower Upper

77 100

105 735.0 70.2 105.4#

106 67.8 65.6 98.4



#6

Phenol

Concen: 1.585 ng/ul

RT: 6.68 min Scan# 628

Delta R.T. -0.00 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

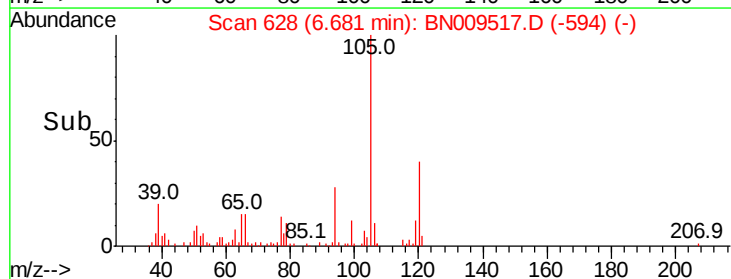
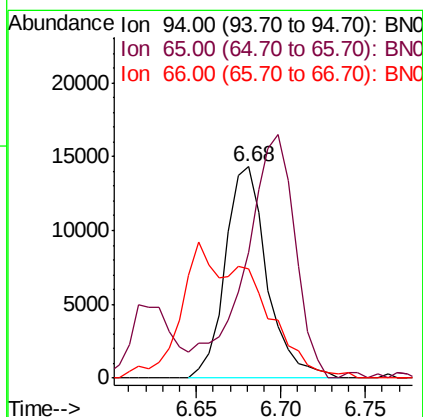
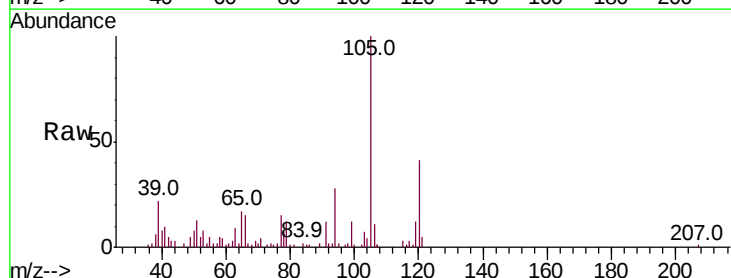
Tgt Ion: 94 Resp: 24622

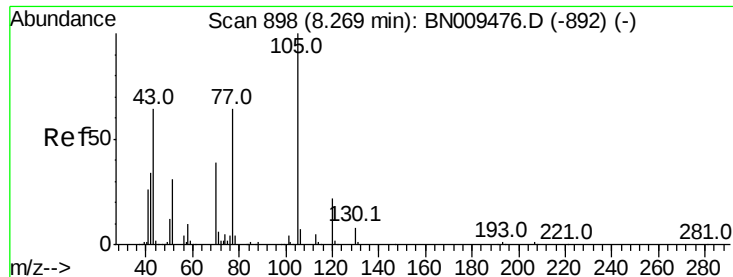
Ion Ratio Lower Upper

94 100

65 59.6 29.4 44.0#

66 51.8 39.8 59.8





#14

Acetophenone

Concen: 4.307 ng/ul

RT: 8.25 min Scan# 894

Delta R.T. -0.03 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Instrument :

BNA_N

ClientSampled :

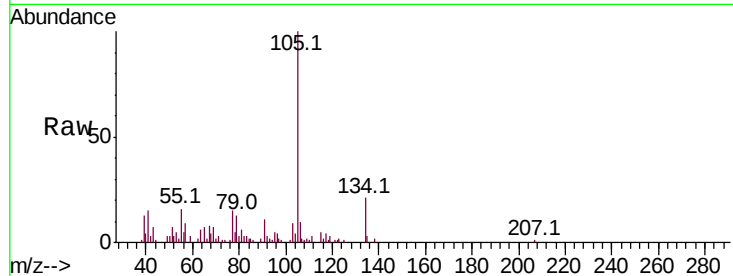
Tot Ion:105 Resp: 82105

Ion Ratio Lower Upper

105 100

77 15.4 66.4 99.6#

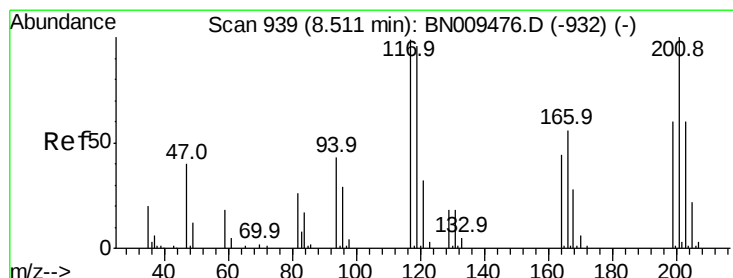
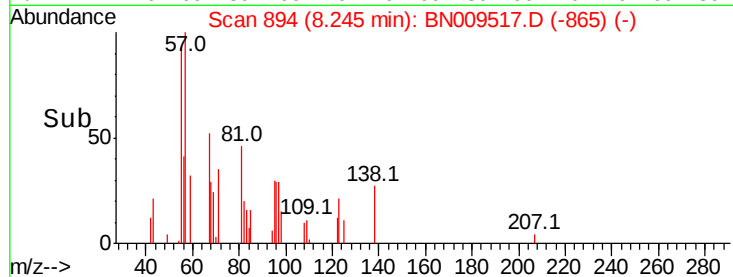
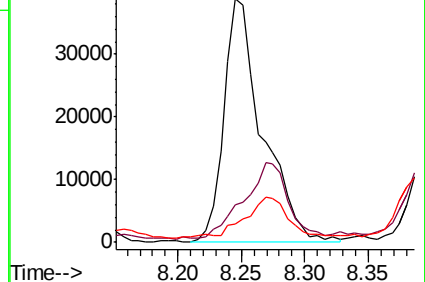
51 7.3 35.6 53.4#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BNO

Ion 51.00 (50.70 to 51.70): BNO



#17

Hexachloroethane

Concen: 25.617 ng/ul

RT: 8.47 min Scan# 933

Delta R.T. -0.04 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

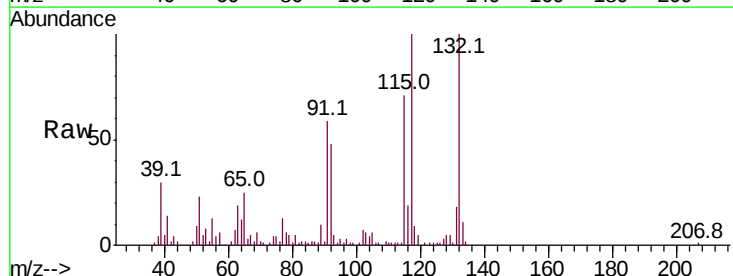
Tgt Ion:117 Resp: 133624

Ion Ratio Lower Upper

117 100

201 0.0 76.5 114.7#

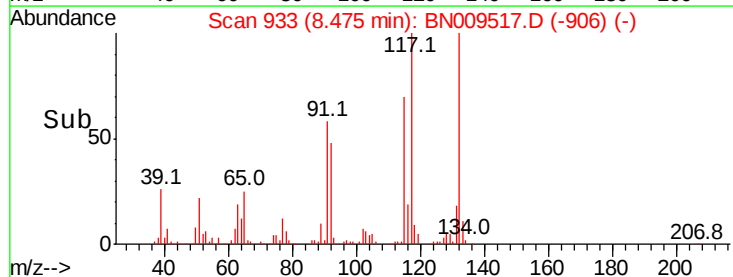
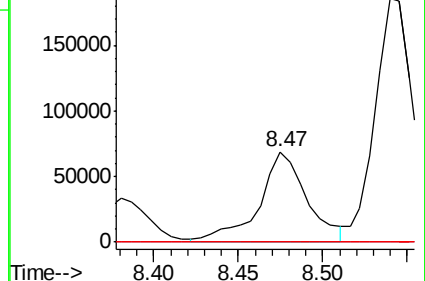
199 0.0 46.6 69.8#

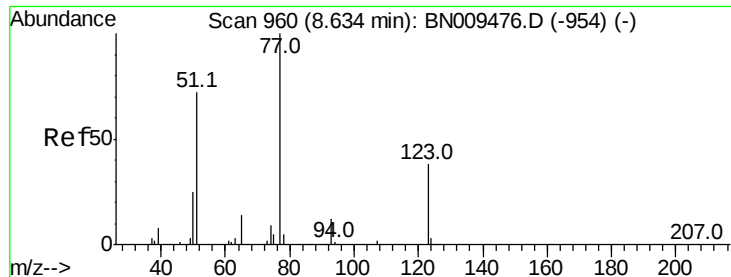


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E

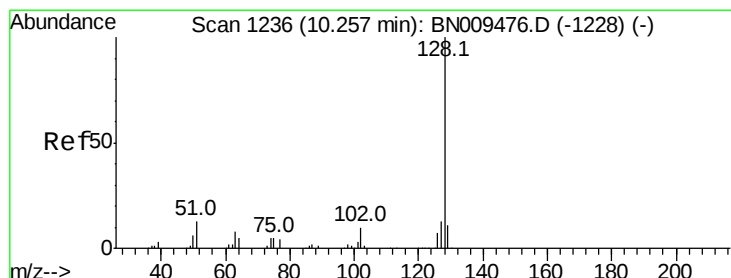
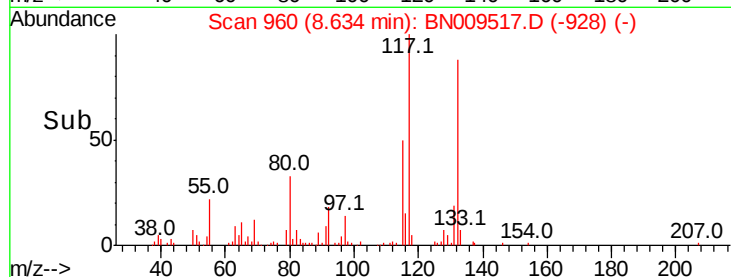
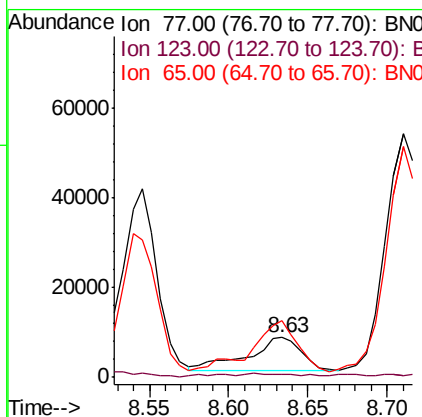
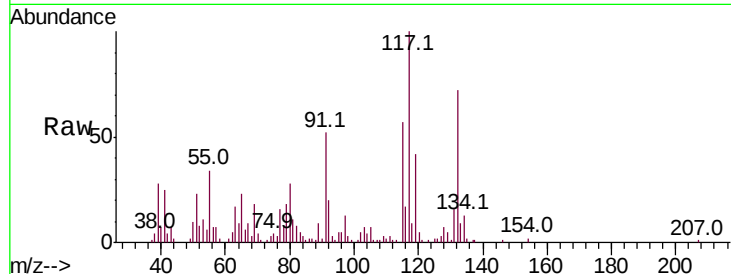




#20
Nitrobenzene
Concen: 1.228 ng/ul
RT: 8.63 min Scan# 960
Delta R.T. -0.01 min
Lab File: BN009517.D
Acq: 31 Jan 2020 18:48

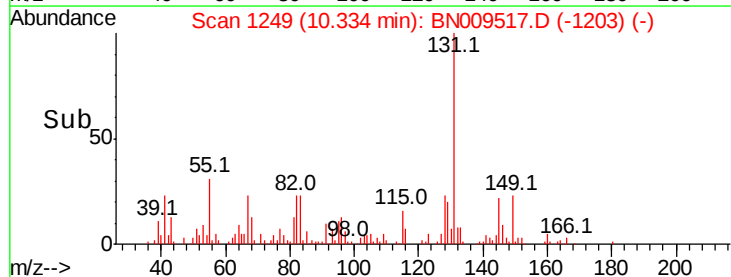
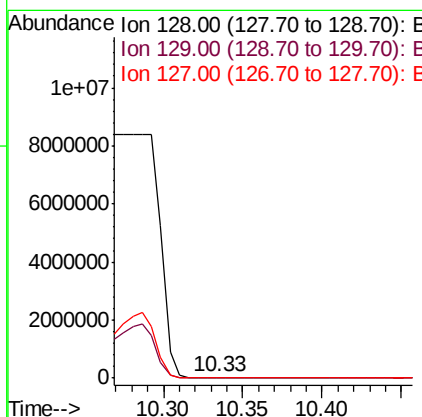
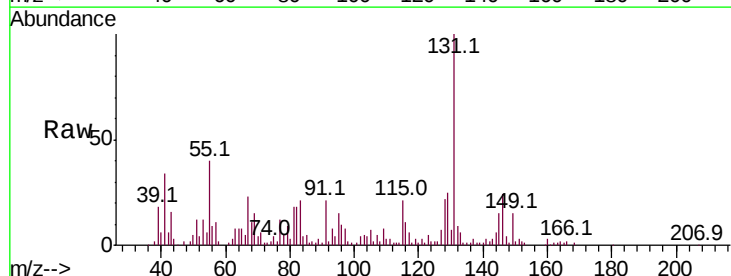
Instrument :
BNA_N
ClientSampled :

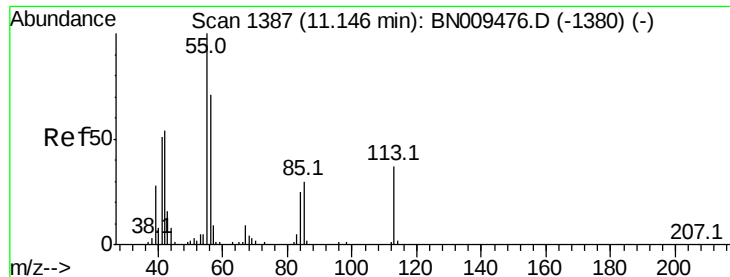
Tot Ion: 77 Resp: 17476
Ion Ratio Lower Upper
77 100
123 6.2 32.2 48.2#
65 143.2 13.3 19.9#



#28
Naphthalene
Concen: 1.102 ng/ul
RT: 10.33 min Scan# 1249
Delta R.T. 0.07 min
Lab File: BN009517.D
Acq: 31 Jan 2020 18:48

Tgt Ion: 128 Resp: 39457
Ion Ratio Lower Upper
128 100
129 112.1 8.1 12.1#
127 31.9 11.0 16.6#





#32

Caprolactam

Concen: 3.228 ng/ul

RT: 11.15 min Scan# 1387

Delta R.T. -0.01 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Instrument :

BNA_N

ClientSampled :

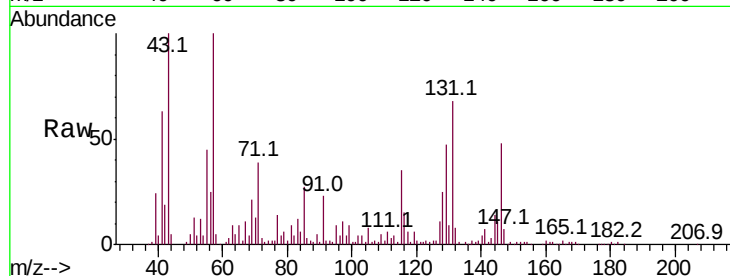
Tot Ion:113 Resp: 10900

Ion Ratio Lower Upper

113 100

55 1092.4 214.0 321.0#

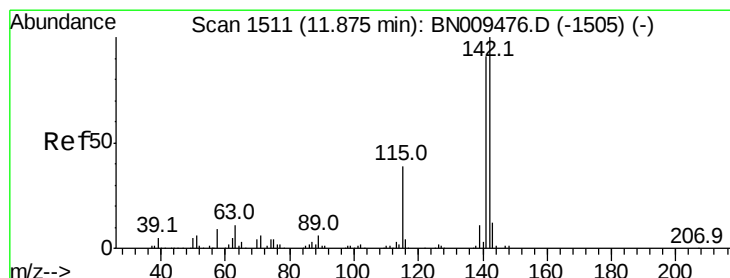
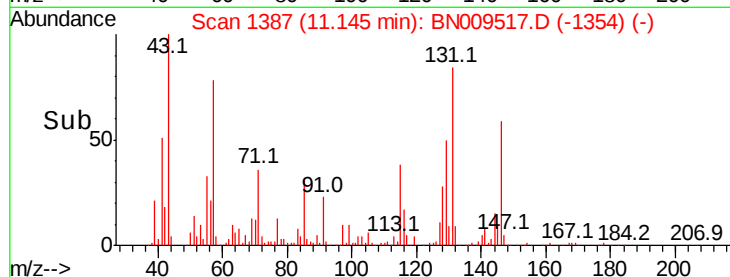
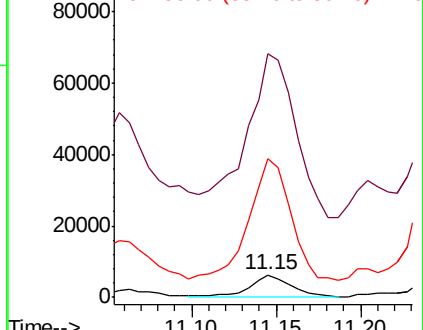
56 621.4 157.5 236.3#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BN0

Ion 56.00 (55.70 to 56.70): BN0



#34

2-Methylnaphthalene

Concen: 11.035 ng/ul

RT: 11.75 min Scan# 1489

Delta R.T. -0.14 min

Lab File: BN009517.D

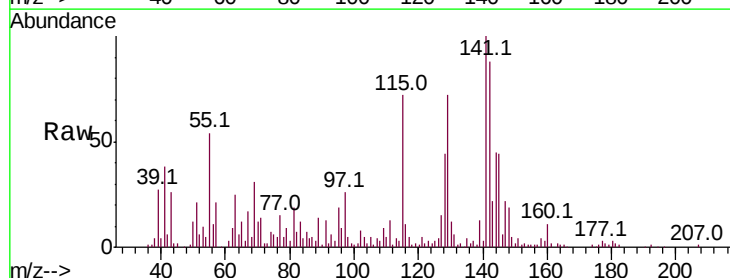
Acq: 31 Jan 2020 18:48

Tgt Ion:142 Resp: 272064

Ion Ratio Lower Upper

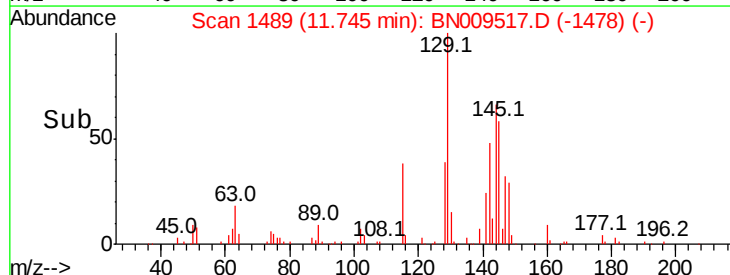
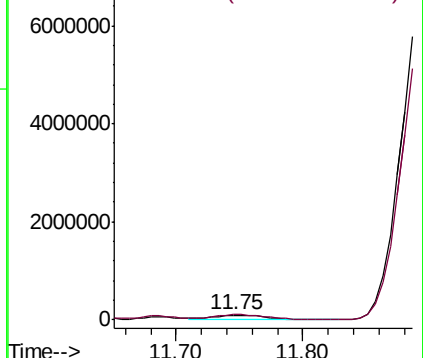
142 100

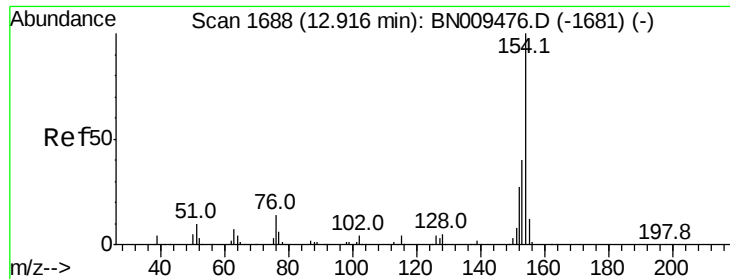
141 113.8 69.3 103.9#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#40

1,1'-Biphenyl

Concen: 94.340 ng/ul

RT: 12.92 min Scan# 1689

Delta R.T. -0.00 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

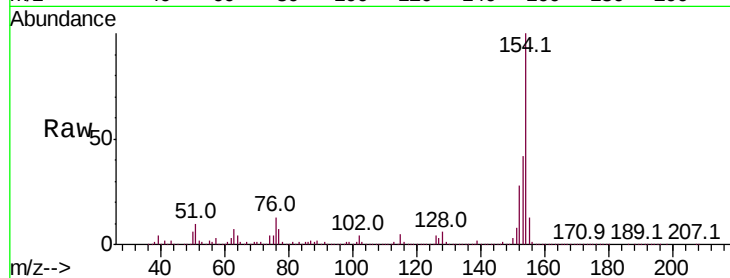
Instrument :

BNA_N

ClientSampleId :

Tot Ion:154 Resp: 3705997

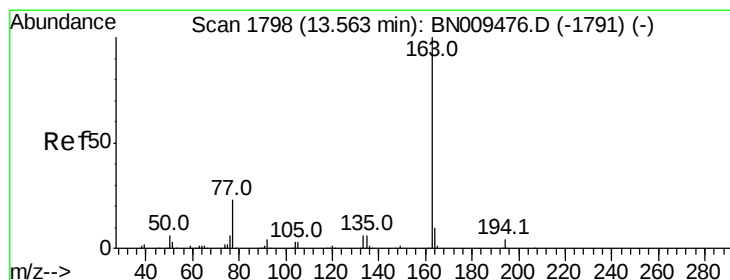
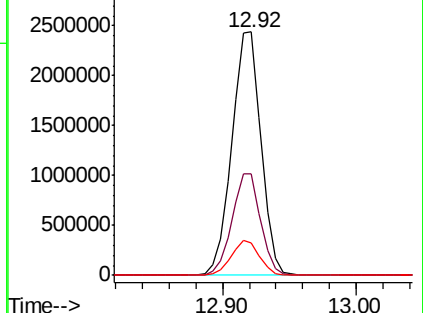
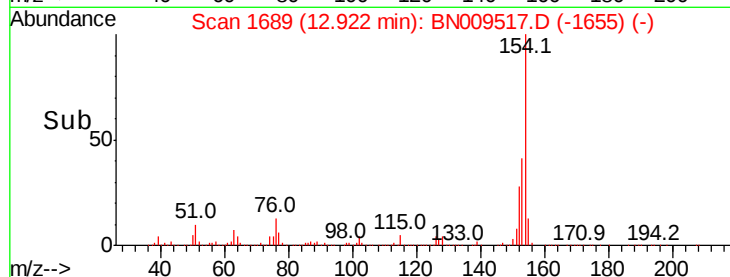
Ion	Ratio	Lower	Upper
154	100		
153	41.6	32.6	49.0
76	13.5	11.4	17.0



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: 2.898 ng/ul

RT: 13.56 min Scan# 1798

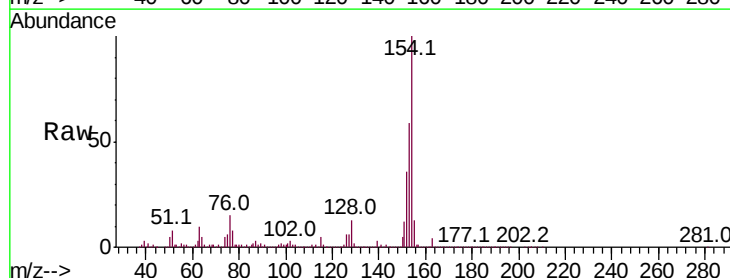
Delta R.T. -0.01 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Tgt Ion:163 Resp: 114545

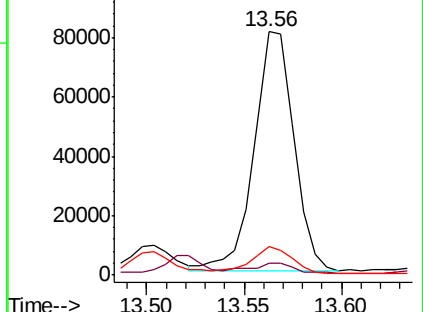
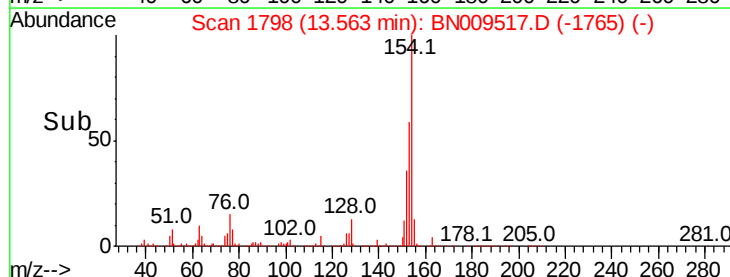
Ion	Ratio	Lower	Upper
163	100		
194	5.0	3.1	4.7#
164	11.8	8.3	12.5

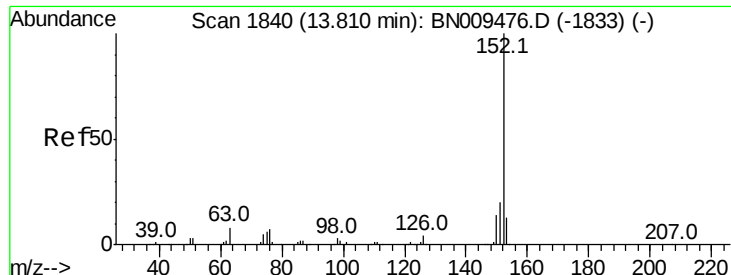


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#47

Acenaphthylene

Concen: 220.455 ng/ul

RT: 13.82 min Scan# 1842

Delta R.T. 0.01 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

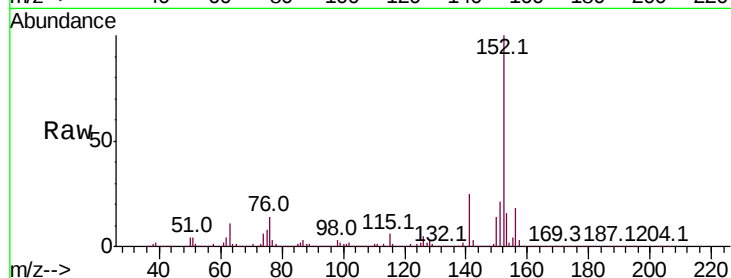
Instrument :

BNA_N

ClientSampleId :

Tot Ion:152 Resp:10842282

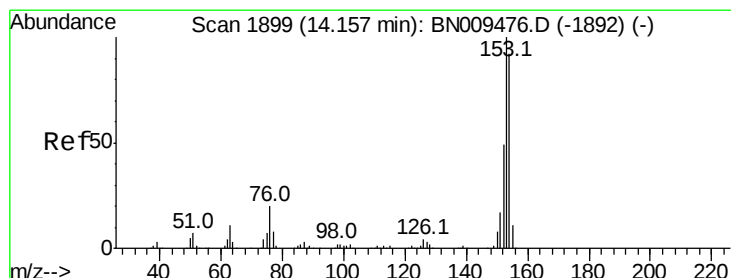
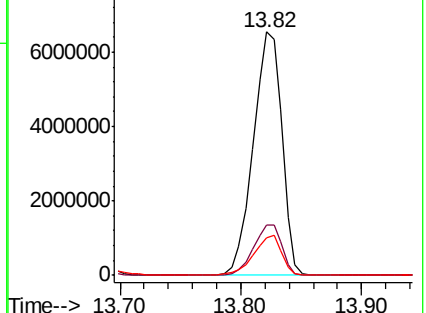
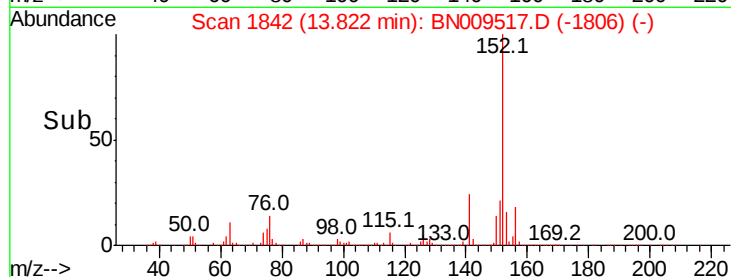
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.4
153	15.6	10.8	16.2



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: 47.962 ng/ul

RT: 14.16 min Scan# 1899

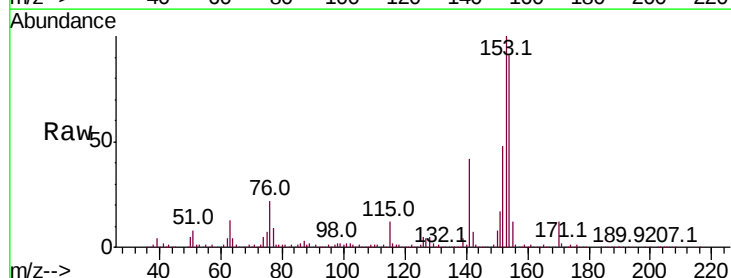
Delta R.T. -0.01 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Tgt Ion:153 Resp: 1609263

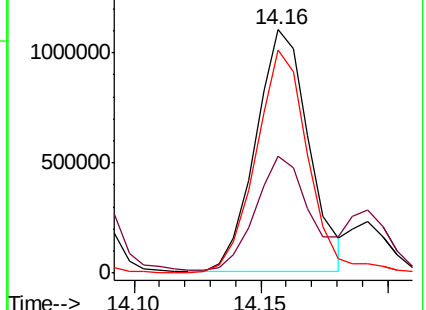
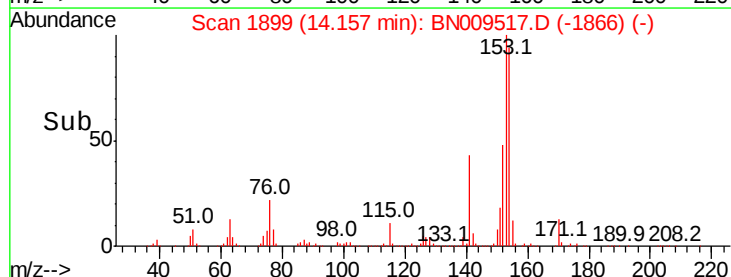
Ion	Ratio	Lower	Upper
153	100		
152	47.8	36.3	54.5
154	91.4	71.4	107.0

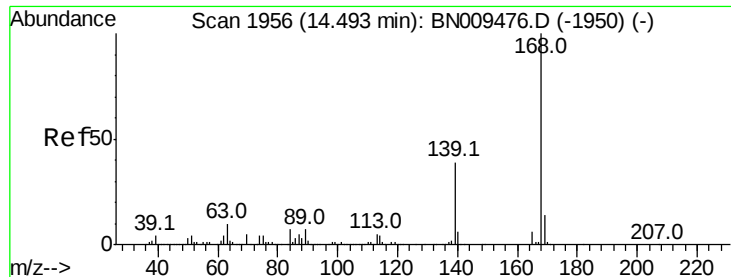


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzofuran

Concen: 37.580 ng/ul

RT: 14.50 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Instrument :

BNA_N

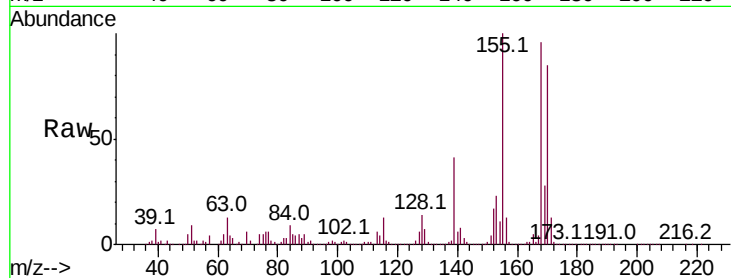
ClientSampled :

Tot Ion:168 Resp: 1751893

Ion Ratio Lower Upper

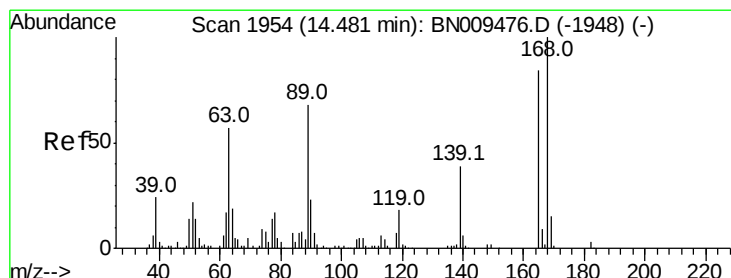
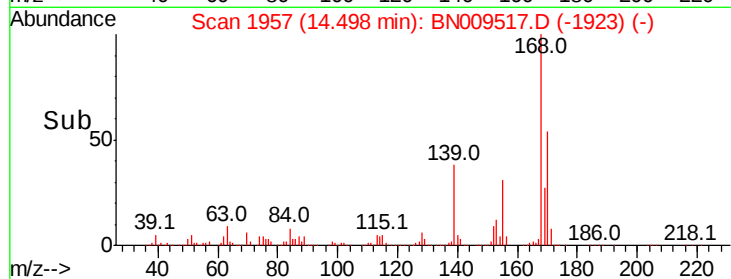
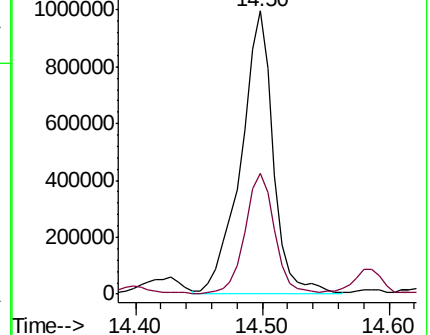
168 100

139 42.6 31.4 47.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#54

2,4-Dinitrotoluene

Concen: 14.384 ng/ul

RT: 14.47 min Scan# 1952

Delta R.T. -0.01 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

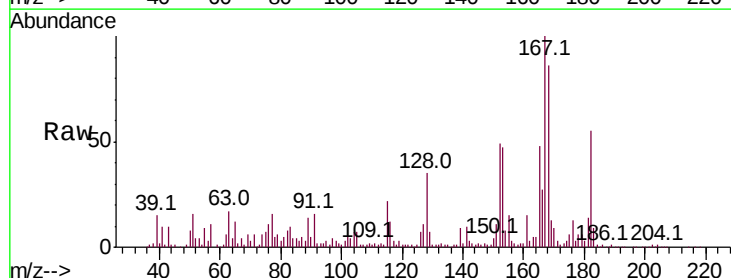
Tgt Ion:165 Resp: 161355

Ion Ratio Lower Upper

165 100

63 35.5 55.4 83.0#

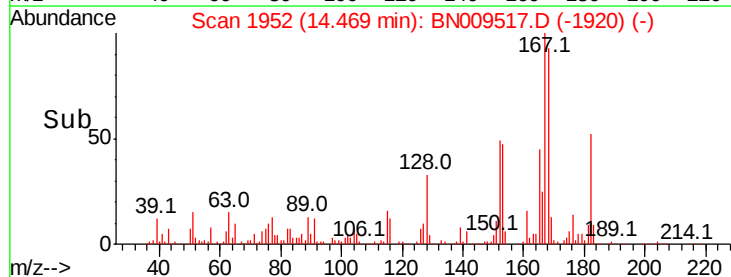
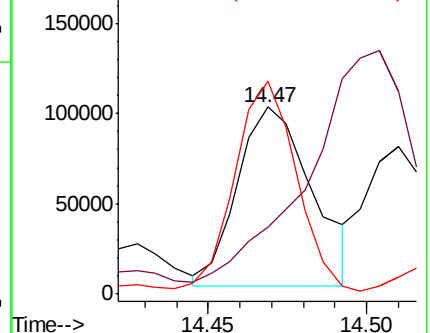
182 114.1 2.0 3.0#

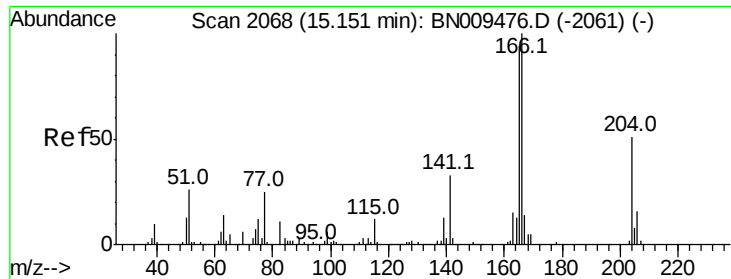


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BNC

Ion 182.00 (181.70 to 182.70): E

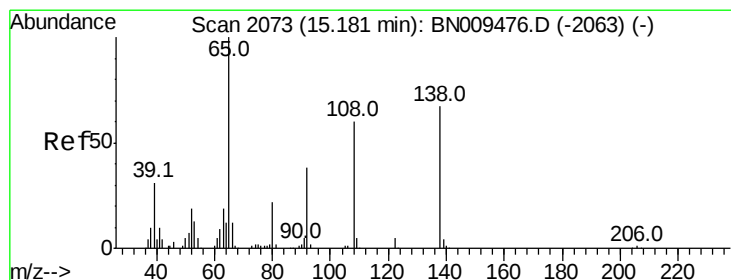
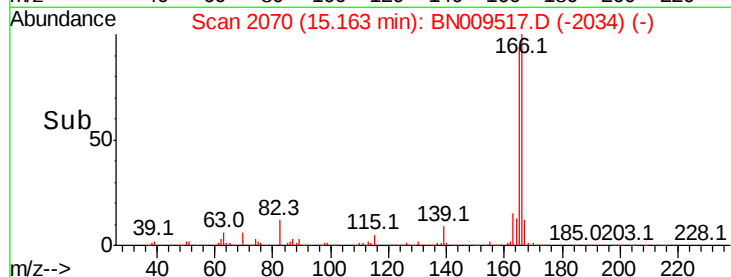
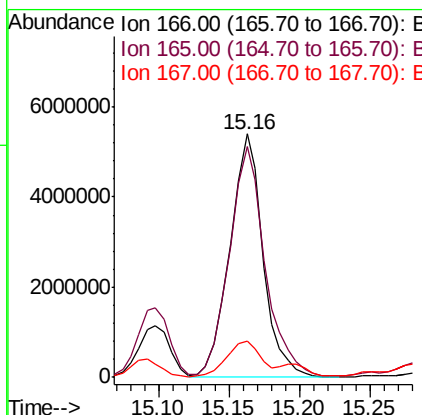
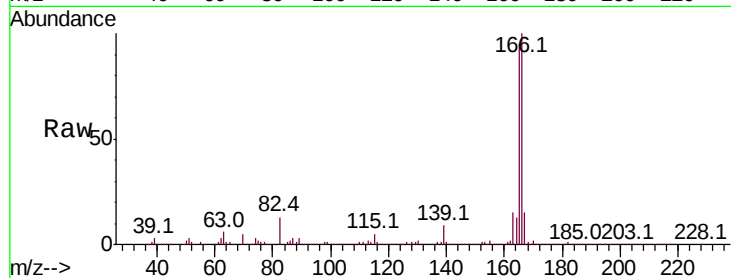




#58
 Fluorene
 Concen: 224.526 ng/ul
 RT: 15.16 min Scan# 2070
 Delta R.T. 0.01 min
 Lab File: BN009517.D
 Acq: 31 Jan 2020 18:48

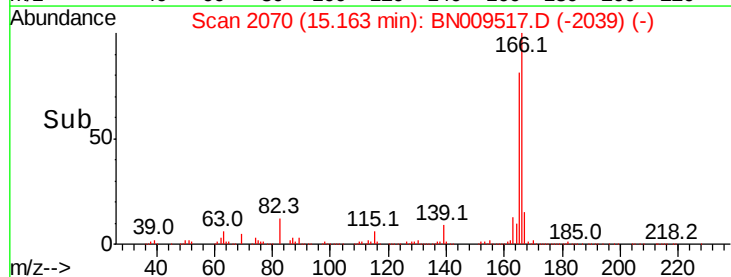
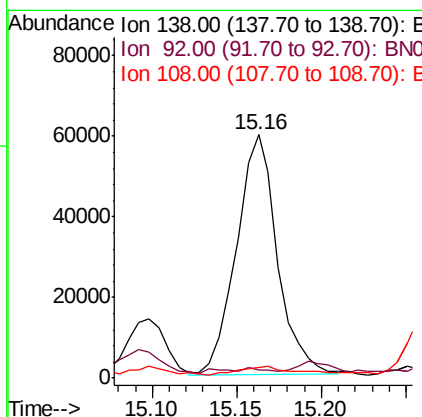
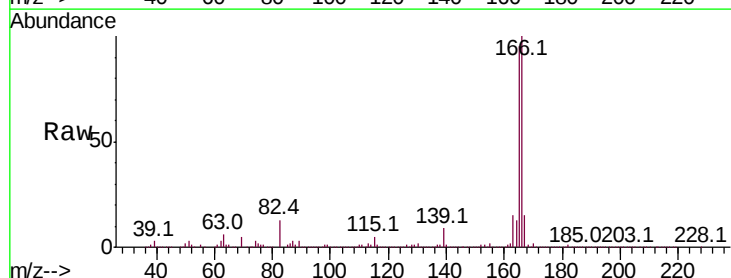
Instrument :
 BNA_N
 ClientSampleId :

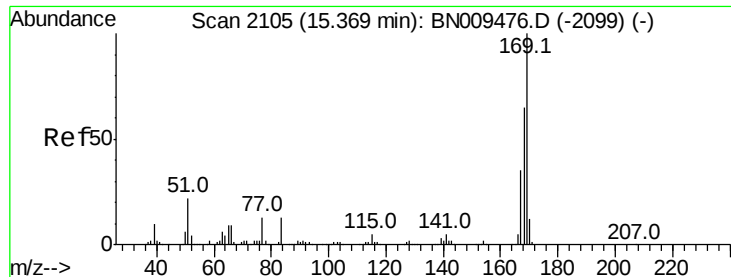
Tot Ion:166 Resp: 8770450
 Ion Ratio Lower Upper
 166 100
 165 94.9 76.5 114.7
 167 14.9 10.9 16.3



#60
 4-Nitroaniline
 Concen: 12.522 ng/ul
 RT: 15.16 min Scan# 2070
 Delta R.T. -0.02 min
 Lab File: BN009517.D
 Acq: 31 Jan 2020 18:48

Tgt Ion:138 Resp: 99277
 Ion Ratio Lower Upper
 138 100
 92 3.5 51.0 76.4#
 108 4.2 77.2 115.8#



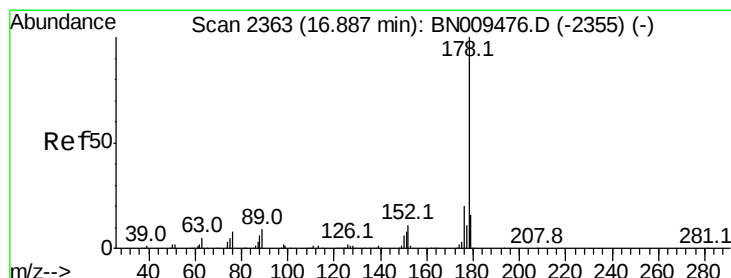
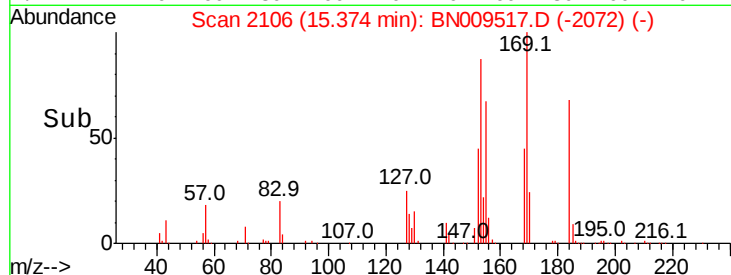
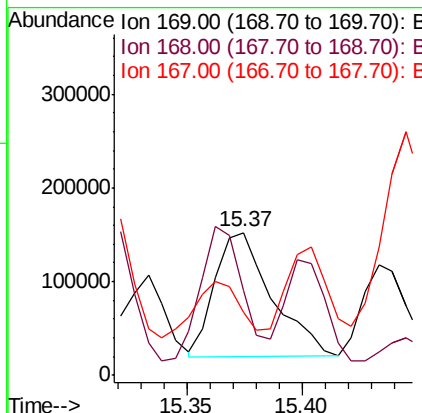
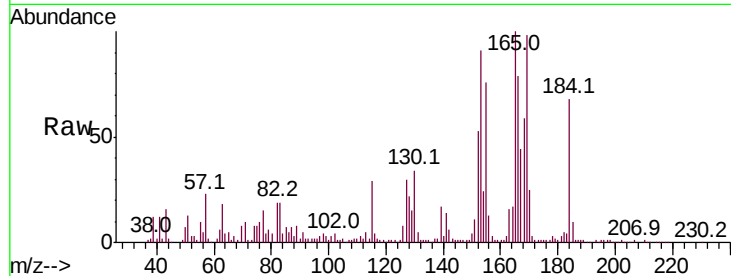


#64

N-Nitrosodiphenylamine
 Concen: 9.032 ng/ul
 RT: 15.37 min Scan# 2106
 Delta R.T. -0.00 min
 Lab File: BN009517.D
 Acq: 31 Jan 2020 18:48

Instrument :
 BNA_N
 ClientSampleId :

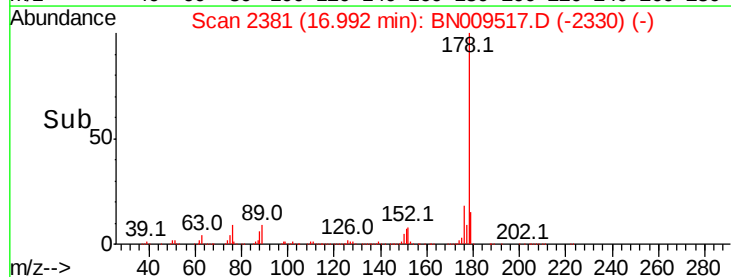
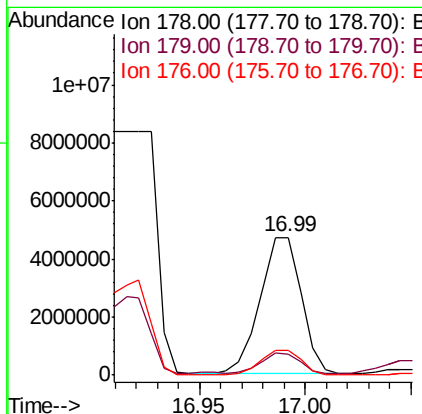
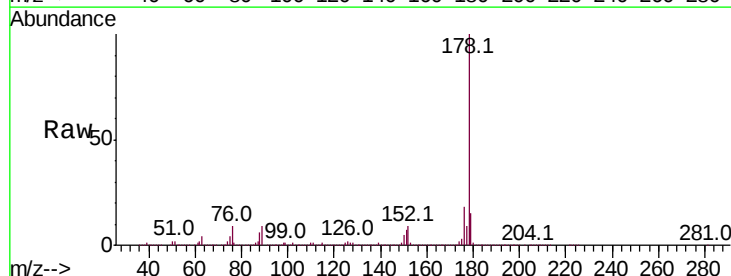
Tot Ion:169 Resp: 226357
 Ion Ratio Lower Upper
 169 100
 168 59.7 49.8 74.8
 167 44.5 27.6 41.4#

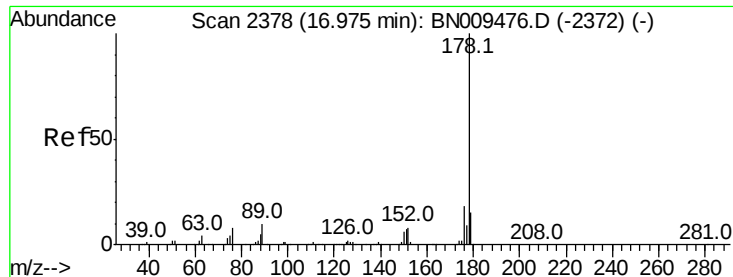


#69

Phenanthrene
 Concen: 133.873 ng/ul
 RT: 16.99 min Scan# 2381
 Delta R.T. 0.10 min
 Lab File: BN009517.D
 Acq: 31 Jan 2020 18:48

Tgt Ion:178 Resp: 6393334
 Ion Ratio Lower Upper
 178 100
 179 15.4 13.3 19.9
 176 17.7 15.5 23.3

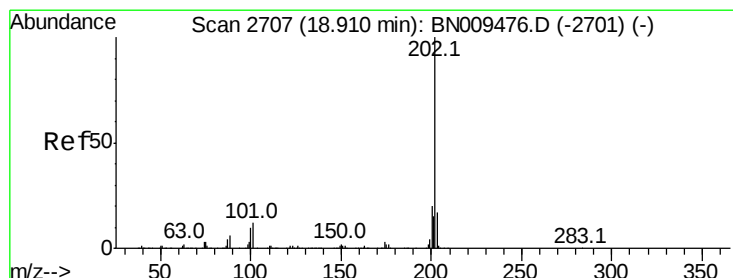
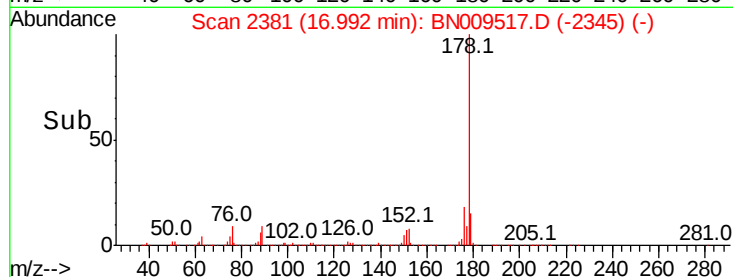
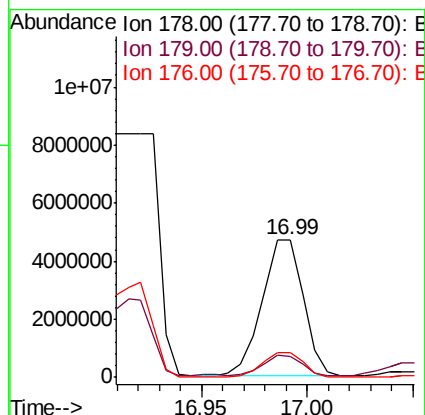
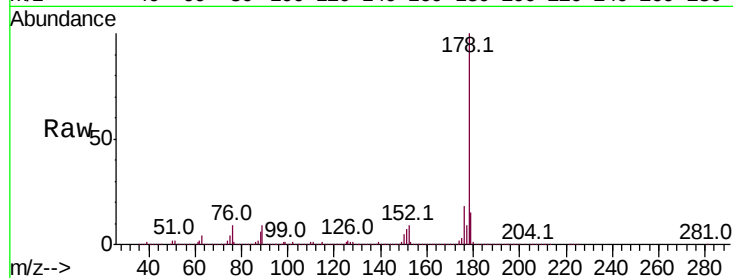




#71
 Anthracene
 Concen: 131.484 ng/ul
 RT: 16.99 min Scan# 2381
 Delta R.T. 0.01 min
 Lab File: BN009517.D
 Acq: 31 Jan 2020 18:48

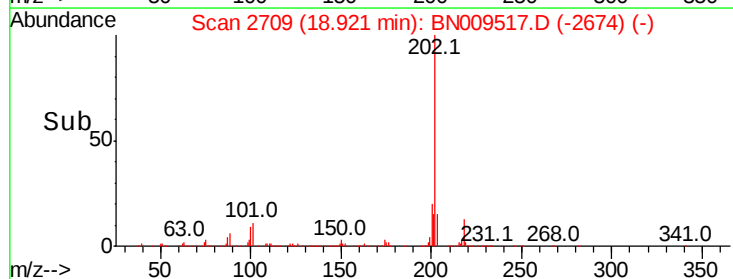
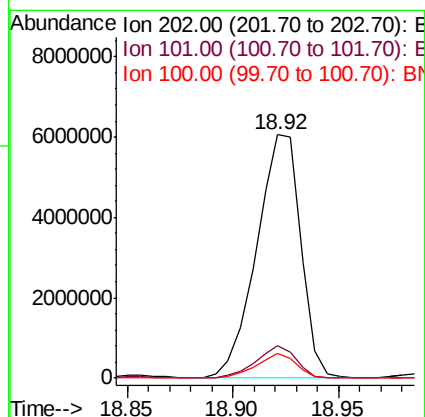
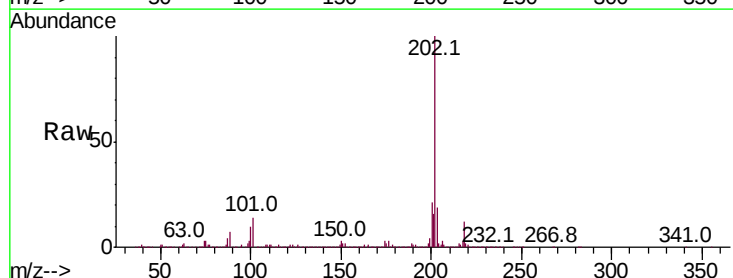
Instrument :
 BNA_N
 ClientSampleId :

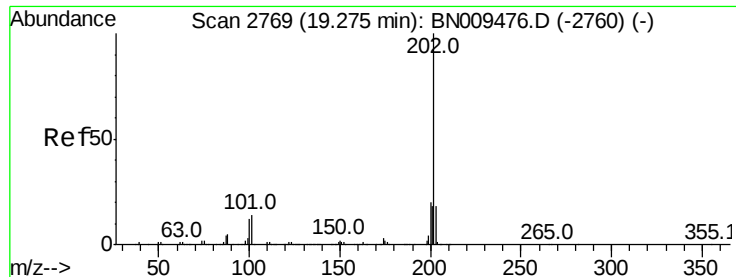
Tot Ion:178 Resp: 6393334
 Ion Ratio Lower Upper
 178 100
 179 15.4 11.8 17.6
 176 17.7 14.6 22.0



#76
 Fluoranthene
 Concen: 160.103 ng/ul
 RT: 18.92 min Scan# 2709
 Delta R.T. 0.01 min
 Lab File: BN009517.D
 Acq: 31 Jan 2020 18:48

Tgt Ion:202 Resp: 8764978
 Ion Ratio Lower Upper
 202 100
 101 13.5 9.7 14.5
 100 10.0 7.1 10.7





#79

Pvrene

Concen: 9.944 ng/ul

RT: 19.19 min Scan# 2754

Delta R.T. -0.09 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Instrument :

BNA_N

ClientSampled :

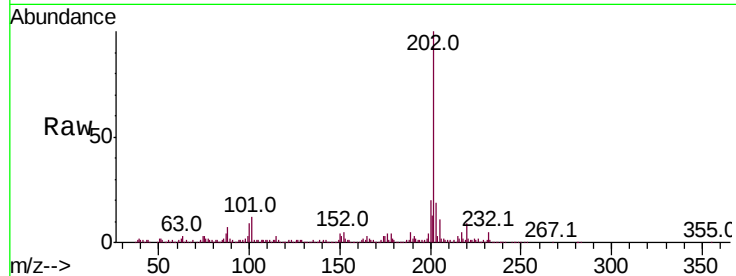
Tot Ion:202 Resp: 547753

Ion Ratio Lower Upper

202 100

101 12.2 10.9 16.3

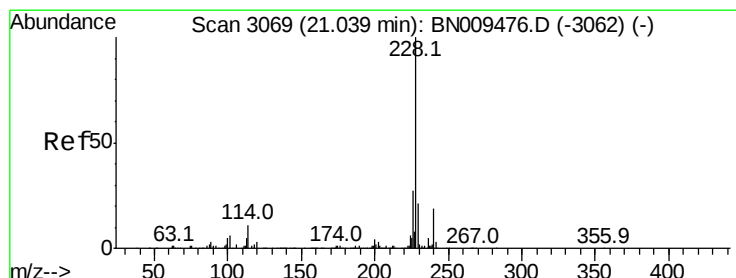
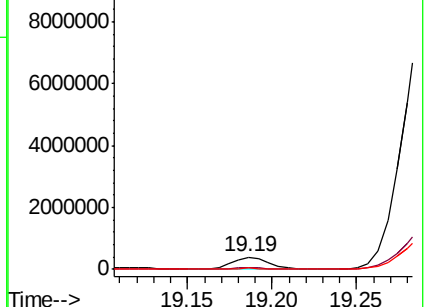
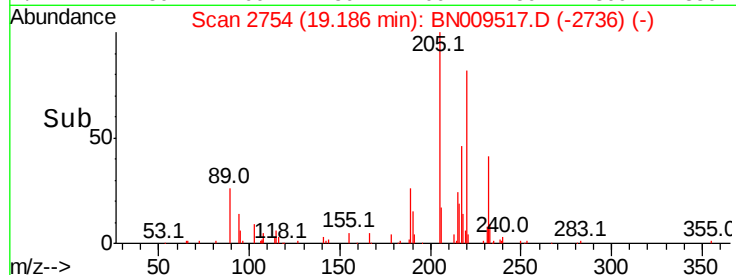
100 9.1 8.6 12.8



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: 93.100 ng/ul

RT: 21.04 min Scan# 3070

Delta R.T. 0.01 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

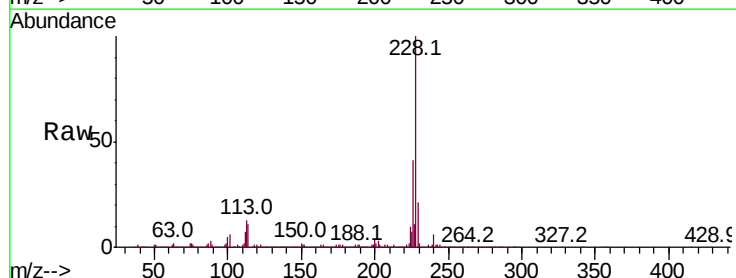
Tgt Ion:228 Resp: 4823291

Ion Ratio Lower Upper

228 100

229 21.0 15.9 23.9

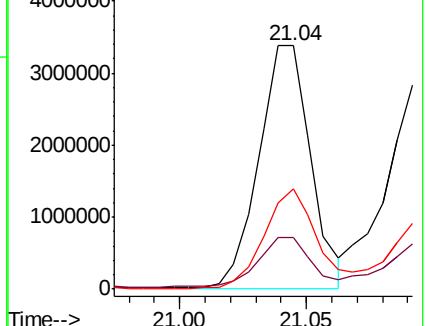
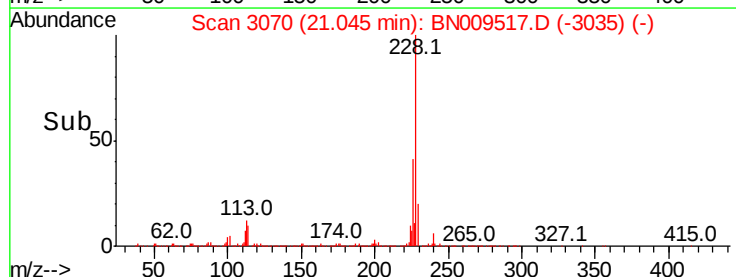
226 41.2 20.9 31.3#

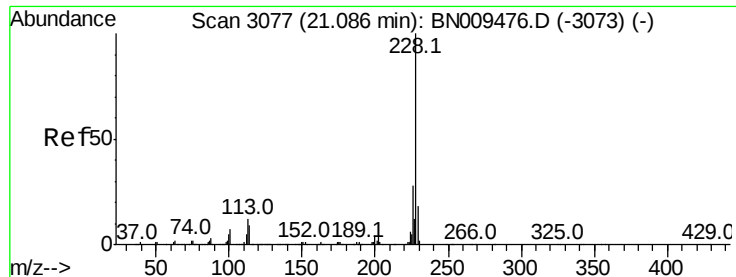


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 79.805 ng/ul

RT: 21.09 min Scan# 3078

Delta R.T. -0.00 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

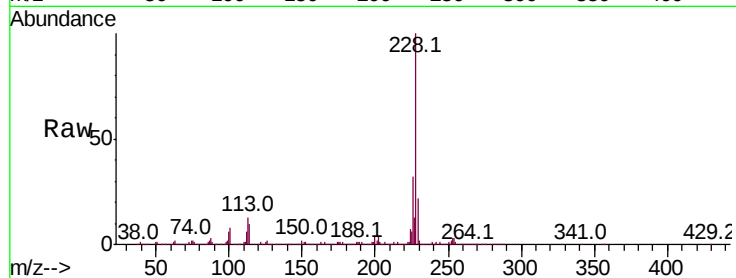
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 4027553

Ion	Ratio	Lower	Upper
228	100		
226	32.1	22.9	34.3
229	22.3	15.4	23.0

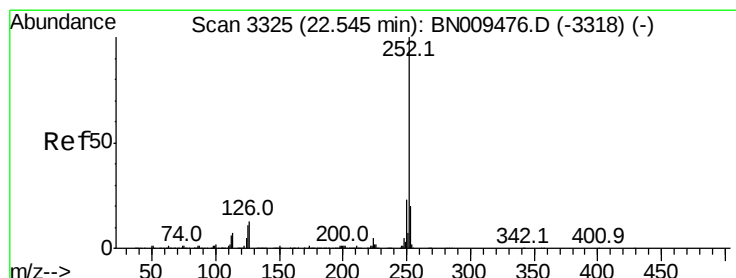
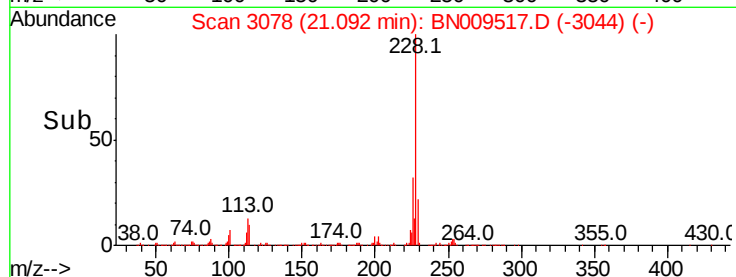
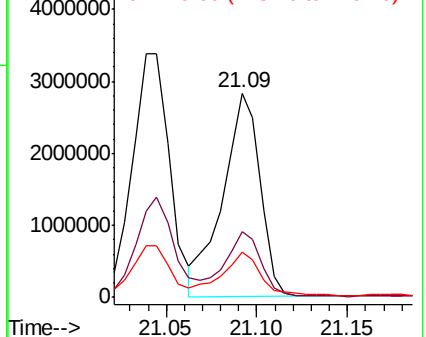


Abundance

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: 47.289 ng/ul

RT: 22.56 min Scan# 3327

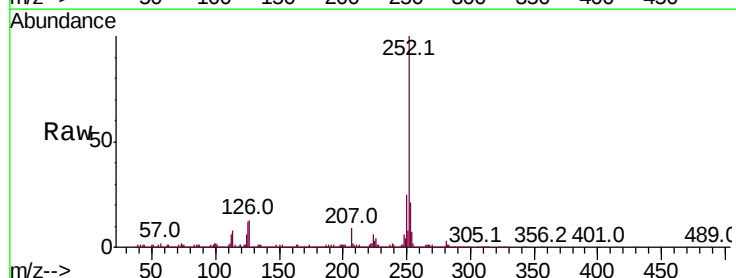
Delta R.T. 0.01 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Tgt Ion:252 Resp: 2451686

Ion	Ratio	Lower	Upper
252	100		
253	20.9	16.5	24.7
125	12.0	8.2	12.2

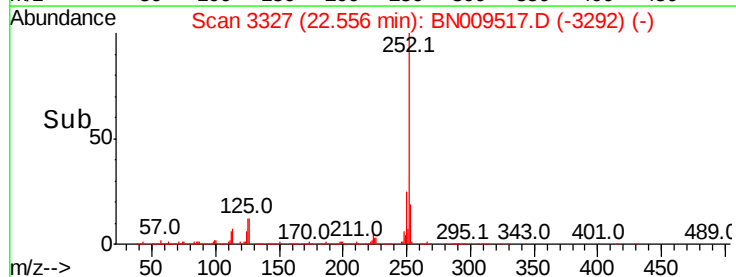
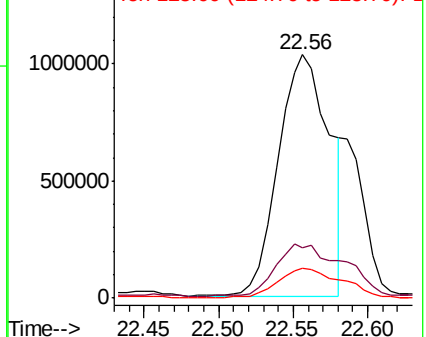


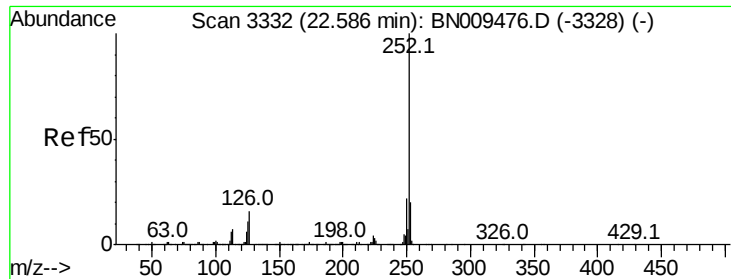
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

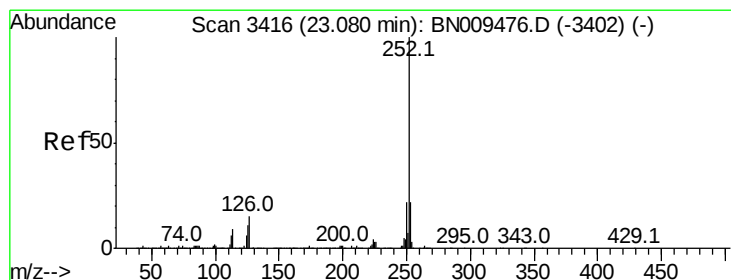
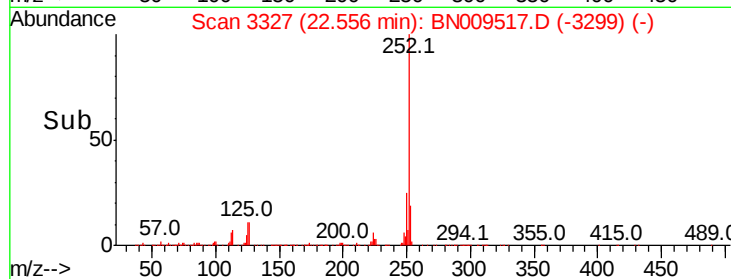
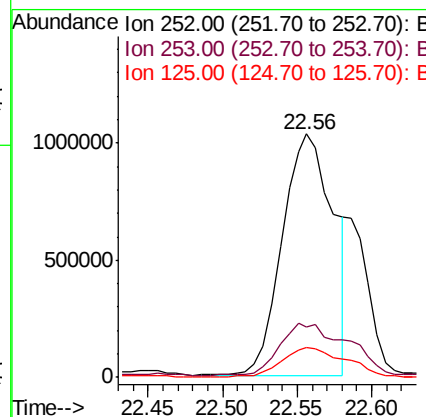
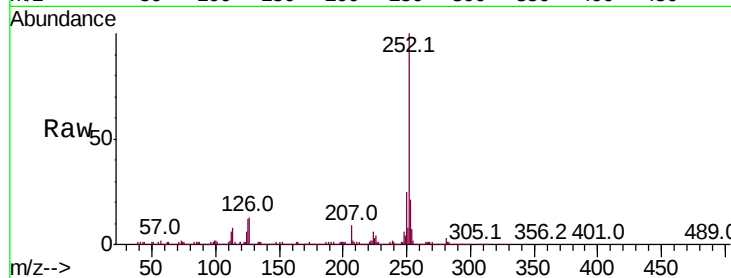




#88
Benzo(k)fluoranthene
Concen: 48.094 ng/ul
RT: 22.56 min Scan# 3327
Delta R.T. -0.04 min
Lab File: BN009517.D
Acq: 31 Jan 2020 18:48

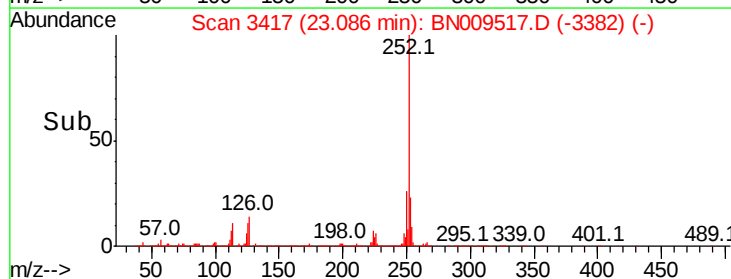
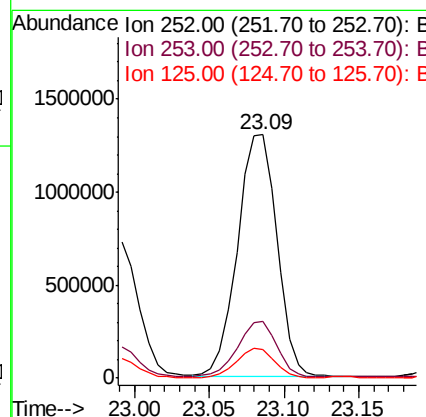
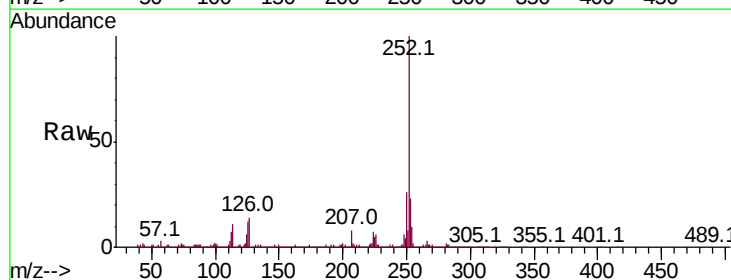
Instrument :
BNA_N
ClientSampleId :

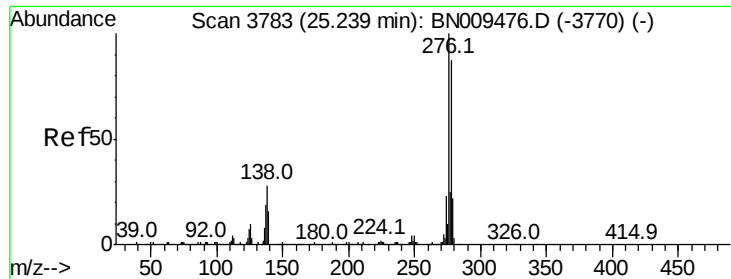
Tot Ion:252 Resp: 2451686
Ion Ratio Lower Upper
252 100
253 20.9 17.0 25.4
125 12.0 7.8 11.8#



#90
Benzo(a)pyrene
Concen: 51.092 ng/ul
RT: 23.09 min Scan# 3417
Delta R.T. 0.01 min
Lab File: BN009517.D
Acq: 31 Jan 2020 18:48

Tgt Ion:252 Resp: 2377618
Ion Ratio Lower Upper
252 100
253 23.4 18.0 27.0
125 11.6 9.8 14.6



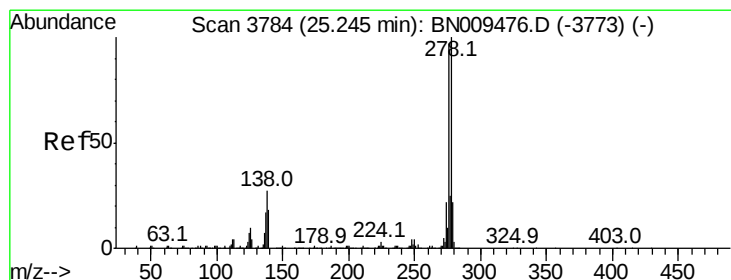
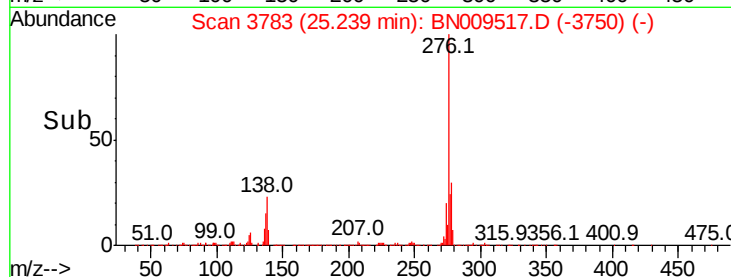
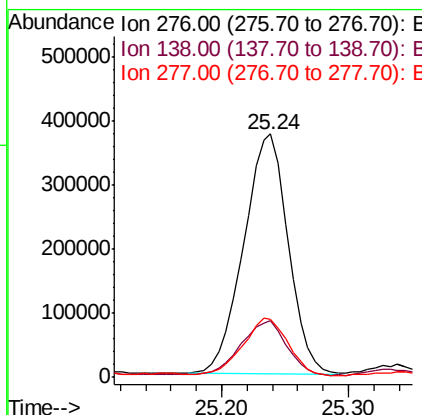
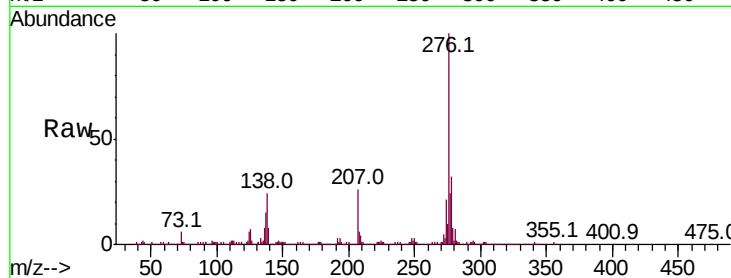


#91

Indeno(1,2,3-cd)pyrene
Concen: 16.214 ng/ul
RT: 25.24 min Scan# 3783
Delta R.T. -0.01 min
Lab File: BN009517.D
Acq: 31 Jan 2020 18:48

Instrument :
BNA_N
ClientSampleId :

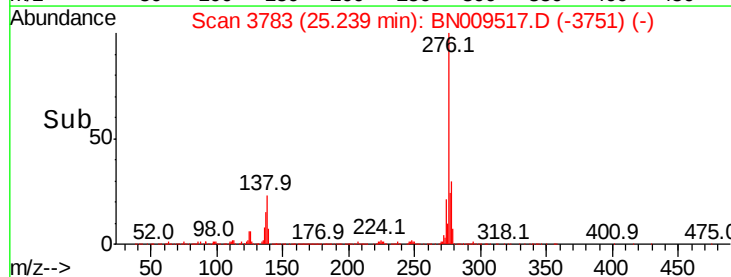
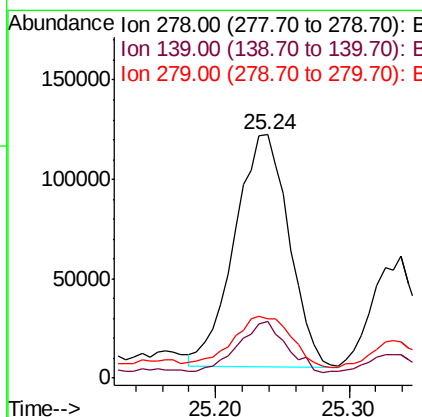
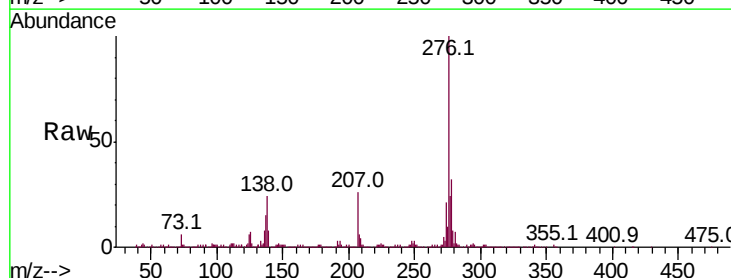
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.5	21.4	32.0
277	24.0	20.4	30.6

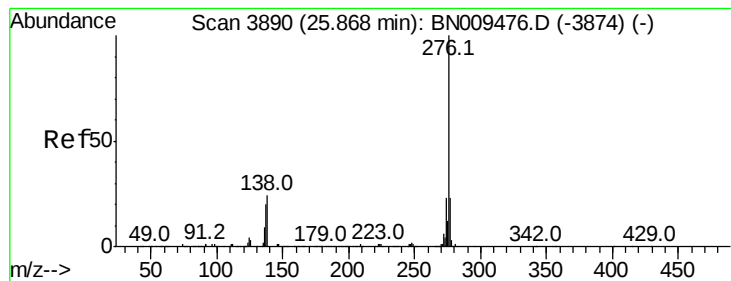


#92

Dibenzo(a,h)anthracene
Concen: 6.927 ng/ul
RT: 25.24 min Scan# 3783
Delta R.T. -0.01 min
Lab File: BN009517.D
Acq: 31 Jan 2020 18:48

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.4	13.9	20.9#
279	24.6	19.3	28.9





#93

Benzo(a,h,i)perylene

Concen: 14.806 ng/ul

RT: 25.86 min Scan# 3889

Delta R.T. -0.01 min

Lab File: BN009517.D

Acq: 31 Jan 2020 18:48

Instrument :

BNA_N

ClientSampleId :

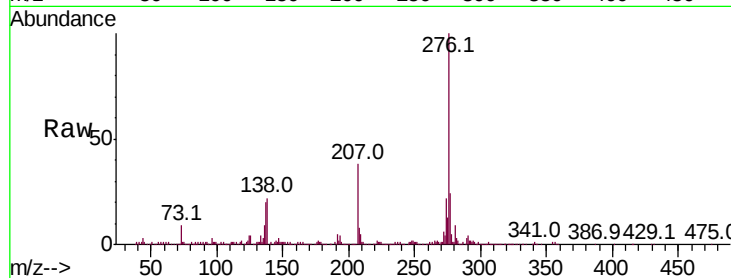
Tot Ion:276 Resp: 694558

Ion Ratio Lower Upper

276 100

138 22.4 16.6 24.8

277 23.7 18.7 28.1



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

