

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082719\
 Data File : BG042516.D
 Acq On : 27 Aug 2019 22:43
 Operator : HP/JU
 Sample : K4549-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 28 01:29:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 22 14:29:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.99	152	32710	20.00	ng	-0.01
21) Naphthalene-d8	10.82	136	130994	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	99348	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	249641	20.00	ng	-0.01
76) Chrysene-d12	21.68	240	302256	20.00	ng	-0.01
87) Perylene-d12	24.93	264	363157	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.55	112	112082	69.40	ng	-0.01
7) Phenol-d6	7.16	99	157068	72.00	ng	-0.01
23) Nitrobenzene-d5	9.16	82	87092	45.94	ng	-0.01
42) 2,4,6-Tribromophenol	16.15	330	101903	72.17	ng	-0.01
45) 2-Fluorobiphenyl	13.28	172	261079	44.45	ng	0.00
79) Terphenyl-d14	20.02	244	540283	38.64	ng	0.00

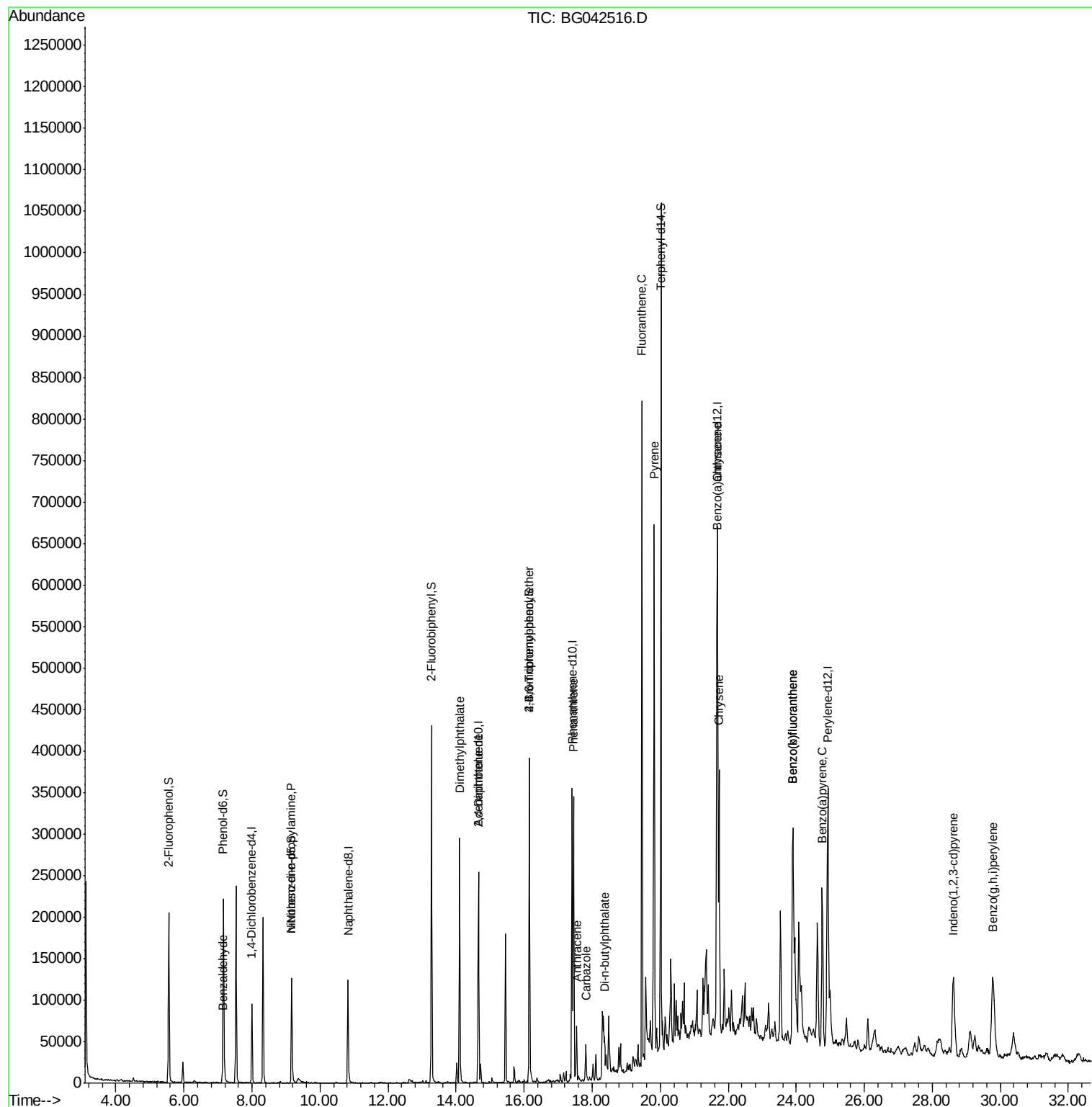
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	7.13	77	4214	3.858	ng	# 88
19) n-Nitroso-di-n-propylamine	9.16	70	11490	8.130	ng	# 73
50) Dimethylphthalate	14.10	163	239749	33.446	ng	99
57) 2,4-Dinitrotoluene	14.66	165	12930	5.434	ng	# 38
67) 4-Bromophenyl-phenylether	16.15	248	6958	2.197	ng	# 1
71) Phenanthrene	17.45	178	239507	19.315	ng	97
72) Anthracene	17.54	178	48363	3.907	ng	97
73) Carbazole	17.82	167	35079	3.180	ng	96
74) Di-n-butylphthalate	18.37	149	27305	2.094	ng	# 97
75) Fluoranthene	19.46	202	532372	35.179	ng	97
78) Pyrene	19.83	202	446685	24.105	ng	98
81) Benzo(a)anthracene	21.67	228	250669	13.633	ng	97
83) Chrysene	21.73	228	255264	14.395	ng	98
86) Indeno(1,2,3-cd)pyrene	28.61	276	170930	7.093	ng	99
88) Benzo(b)fluoranthene	23.90	252	351440	17.603	ng	100
89) Benzo(k)fluoranthene	23.90	252	351440	18.313	ng	100
90) Benzo(a)pyrene	24.76	252	235780	12.445	ng	99
92) Benzo(g,h,i)perylene	29.77	276	170473	8.886	ng	99

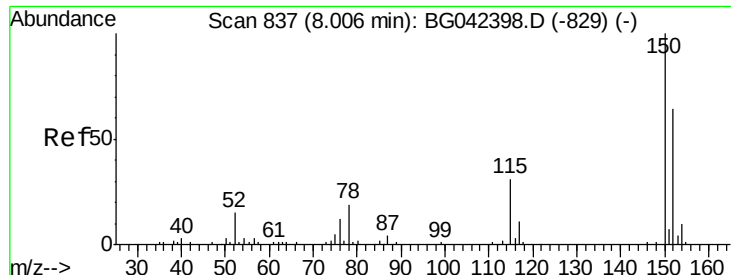
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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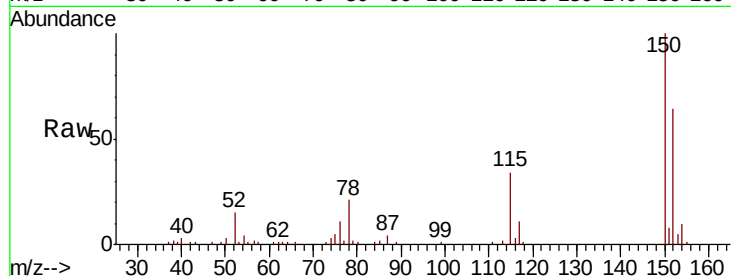


#1

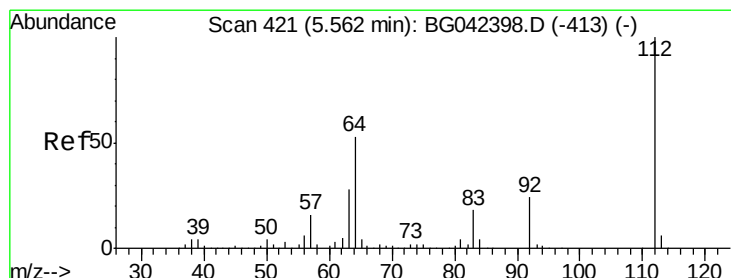
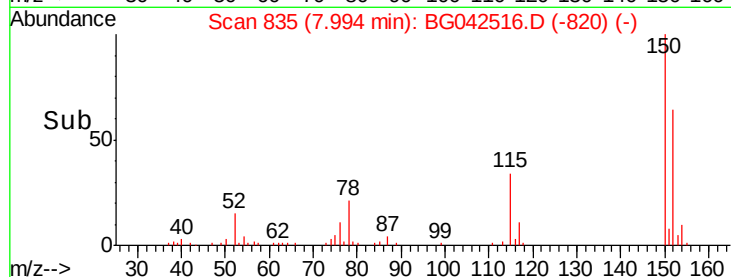
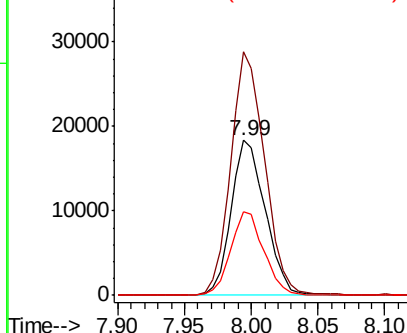
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.99 min Scan# 835
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 32710
Ion Ratio Lower Upper
152 100
150 157.3 125.4 188.0
115 53.9 38.5 57.7



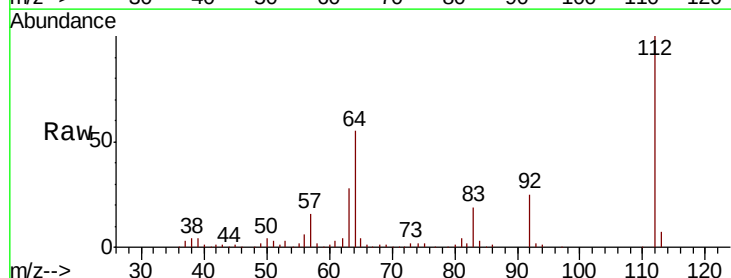
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



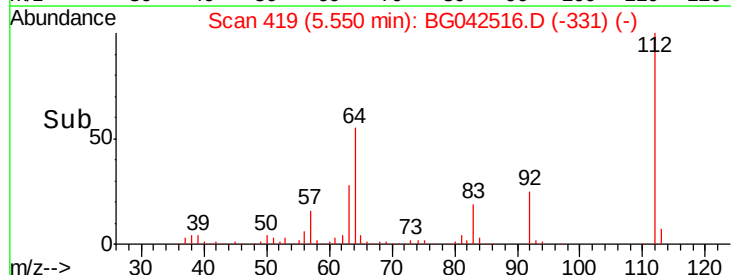
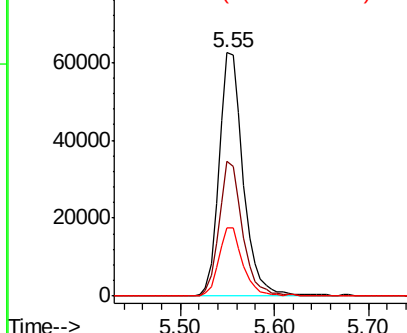
#5

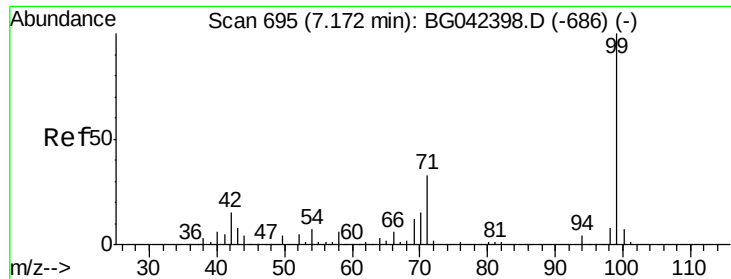
2-Fluorophenol
Concen: 69.397 ng
RT: 5.55 min Scan# 419
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion:112 Resp: 112082
Ion Ratio Lower Upper
112 100
64 55.4 42.8 64.2
63 28.2 22.7 34.1



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BG
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 71.997 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

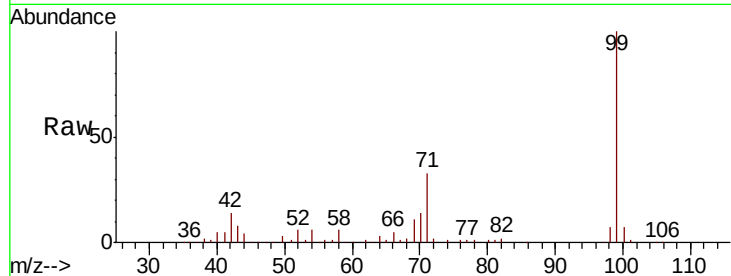
Tot Ion: 99 Resp: 157068

Ion Ratio Lower Upper

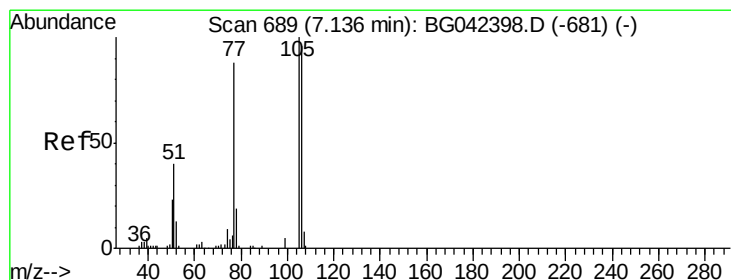
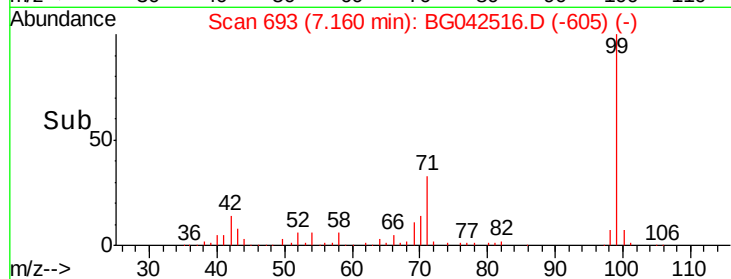
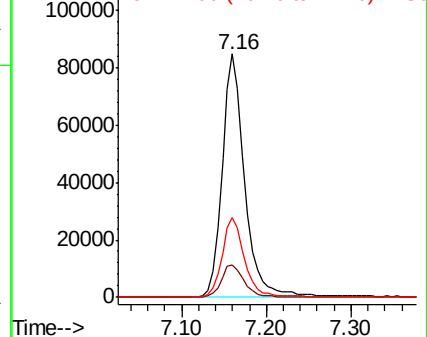
99 100

42 13.5 12.0 18.0

71 32.6 26.3 39.5



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#9

Benzaldehyde

Concen: 3.858 ng

RT: 7.13 min Scan# 688

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

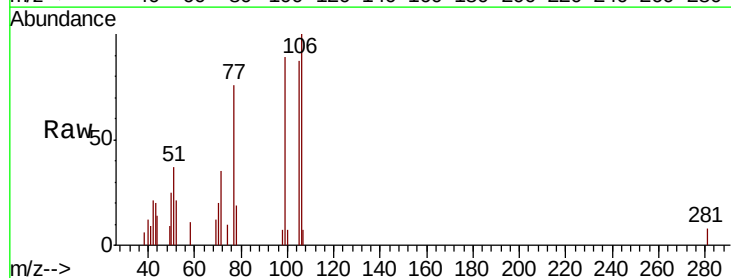
Tgt Ion: 77 Resp: 4214

Ion Ratio Lower Upper

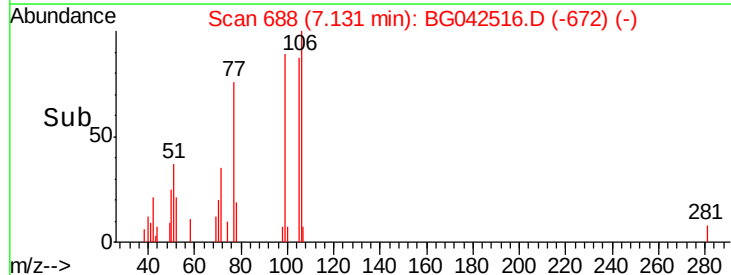
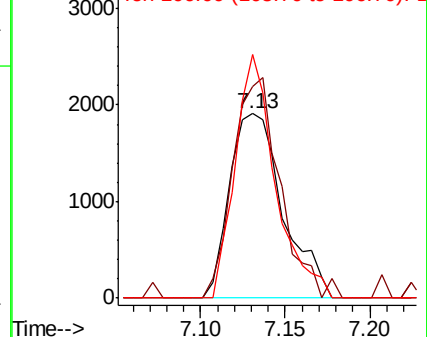
77 100

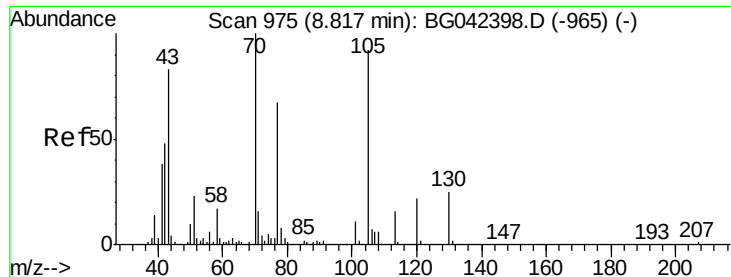
105 115.1 93.4 133.4

106 132.2 88.4 128.4#



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 105.00 (104.70 to 105.70): BGC
Ion 106.00 (105.70 to 106.70): BGC

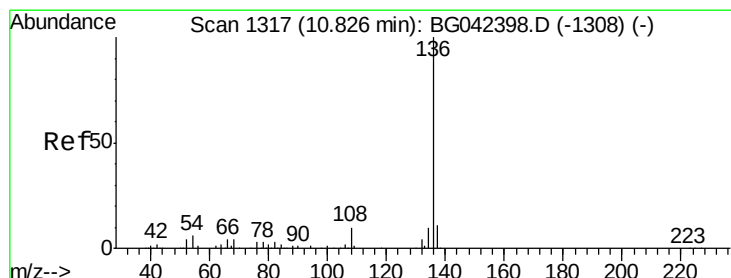
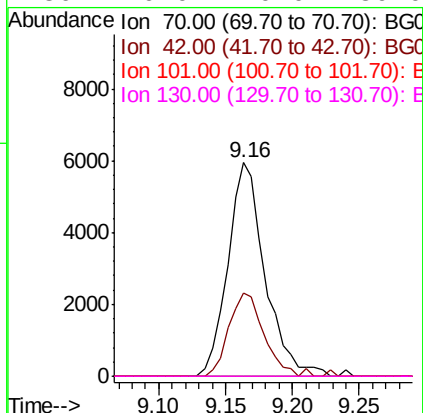
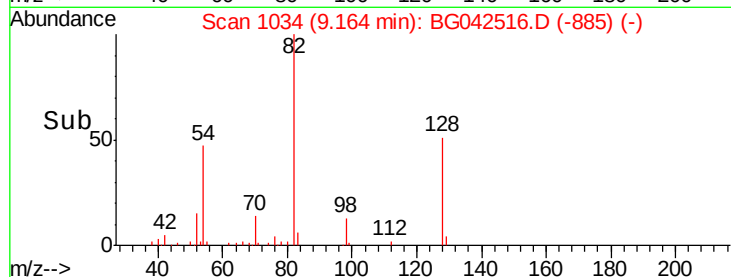
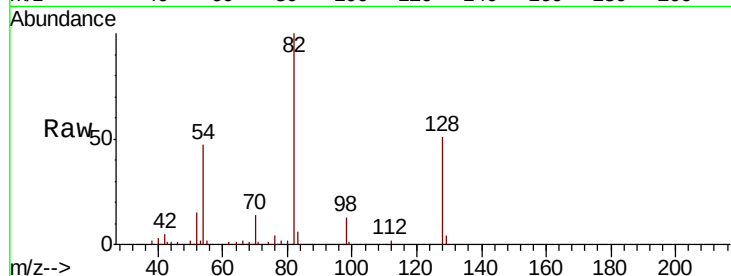




#19
n-Nitroso-di-n-propylamine
Concen: 8.130 ng
RT: 9.16 min Scan# 1034
Delta R.T. 0.35 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

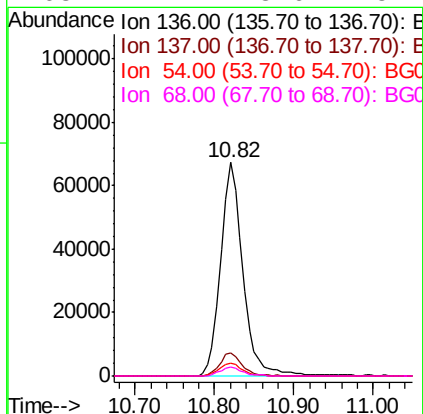
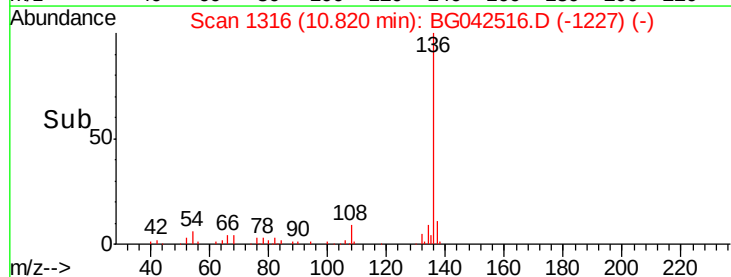
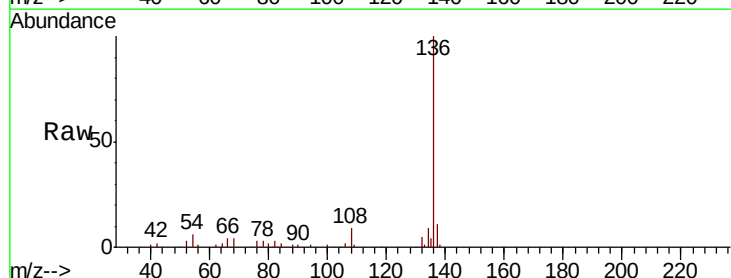
Instrument :
BNA_G
ClientSampleId :

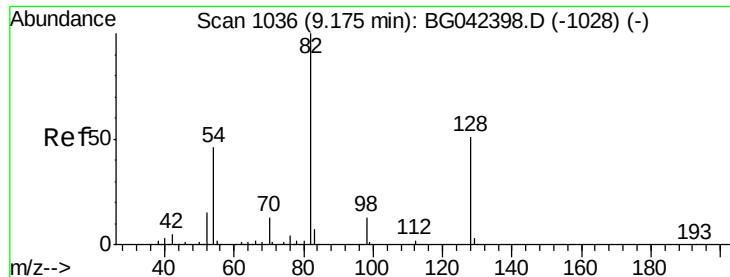
Tot Ion: 70 Resp: 11490
Ion Ratio Lower Upper
70 100
42 38.9 38.8 58.2
101 0.0 9.0 13.6#
130 0.0 20.0 30.0#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.82 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion: 136 Resp: 130994
Ion Ratio Lower Upper
136 100
137 10.6 8.7 13.1
54 6.0 4.9 7.3
68 4.4 3.6 5.4

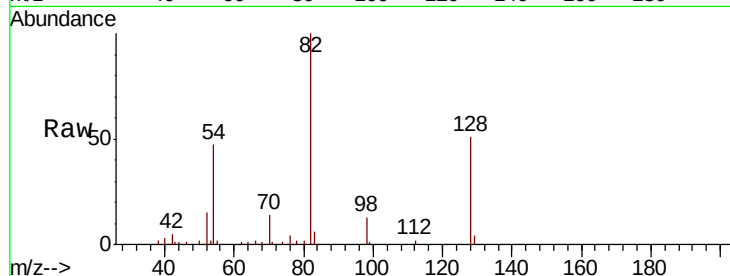




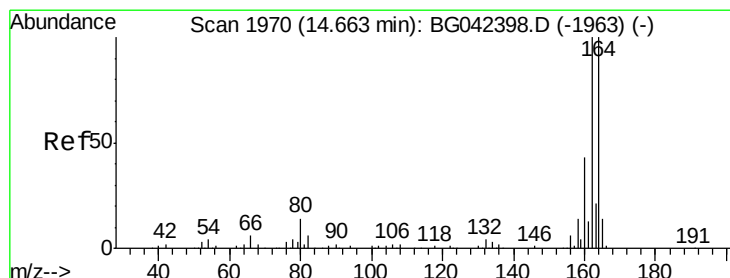
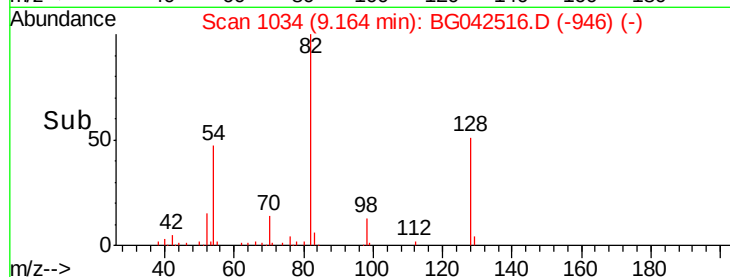
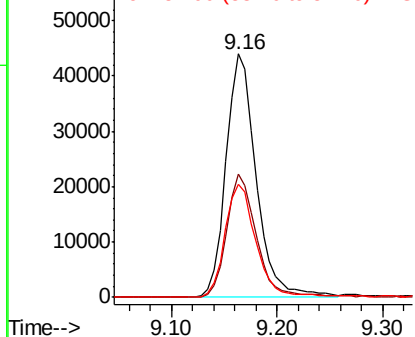
#23
 Nitrobenzene-d5
 Concen: 45.944 ng
 RT: 9.16 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: BG042516.D
 Acq: 27 Aug 2019 22:43

Instrument :
 BNA_G
 ClientSampled :

Tot Ion: 82 Resp: 87092
 Ion Ratio Lower Upper
 82 100
 128 50.8 40.7 61.1
 54 46.6 36.3 54.5

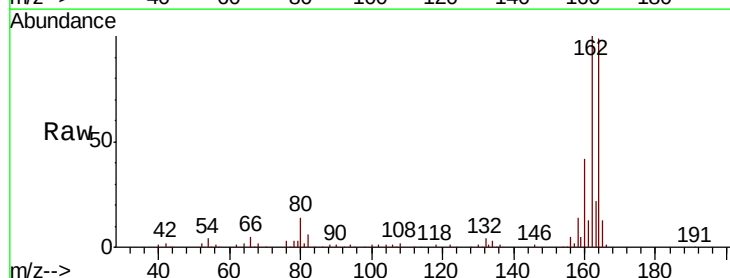


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

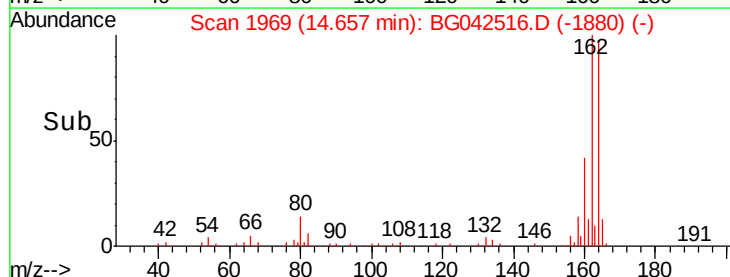
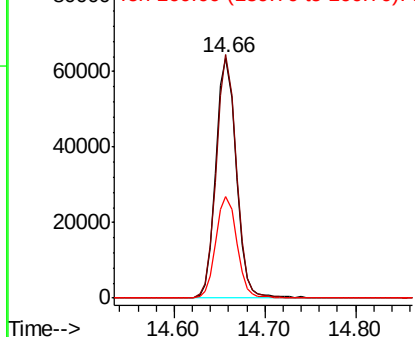


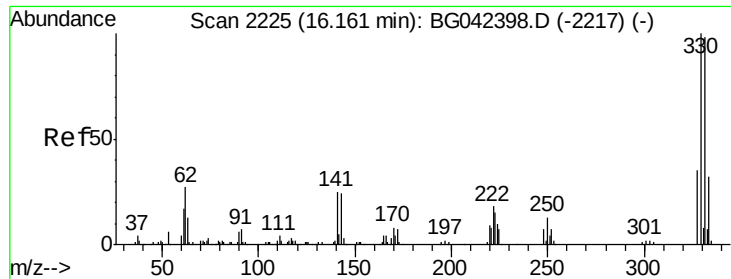
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.66 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BG042516.D
 Acq: 27 Aug 2019 22:43

Tgt Ion:164 Resp: 99348
 Ion Ratio Lower Upper
 164 100
 162 101.4 79.9 119.9
 160 42.2 34.3 51.5



Abundance Ion 164.00 (163.70 to 164.70): BGC
 Ion 162.00 (161.70 to 162.70): BGC
 Ion 160.00 (159.70 to 160.70): BGC

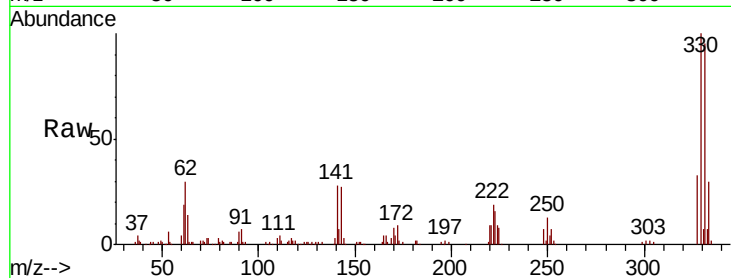




#42
 2,4,6-Tribromophenol
 Concen: 72.166 ng
 RT: 16.15 min Scan# 2223
 Delta R.T. -0.01 min
 Lab File: BG042516.D
 Acq: 27 Aug 2019 22:43

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.4	116.0
141	27.7	21.4	32.0

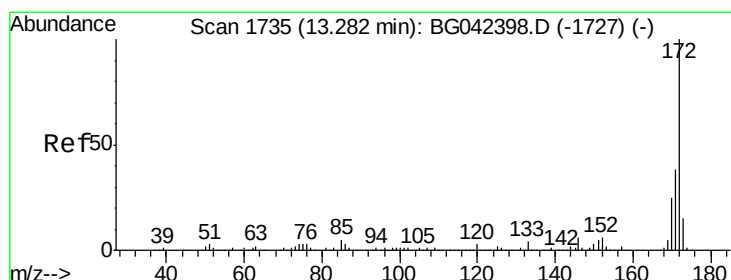
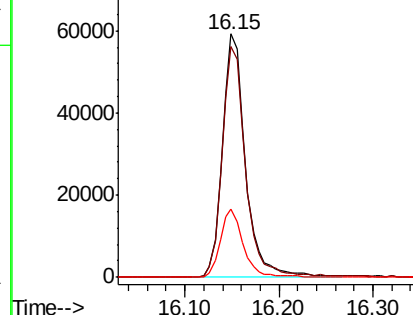
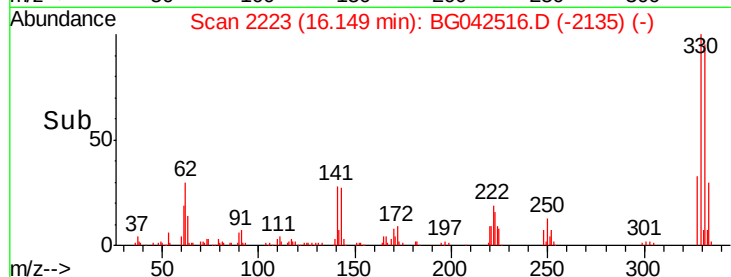


Abundance

Ion 329.80 (329.50 to 330.50): E

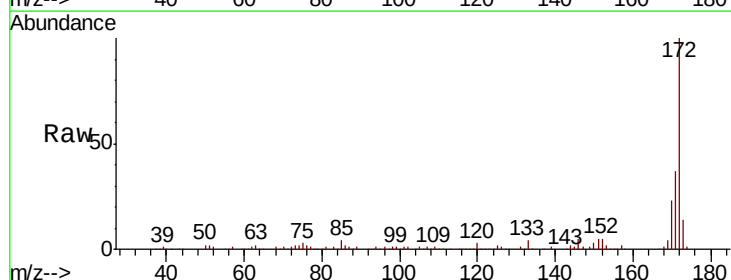
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 44.446 ng
 RT: 13.28 min Scan# 1734
 Delta R.T. -0.01 min
 Lab File: BG042516.D
 Acq: 27 Aug 2019 22:43

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	30.5	45.7
170	23.1	20.2	30.2

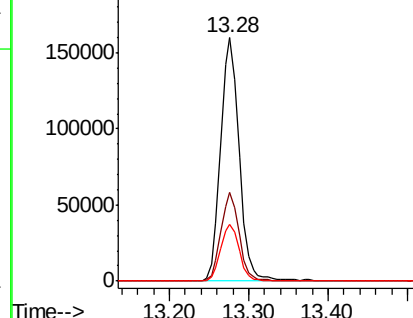
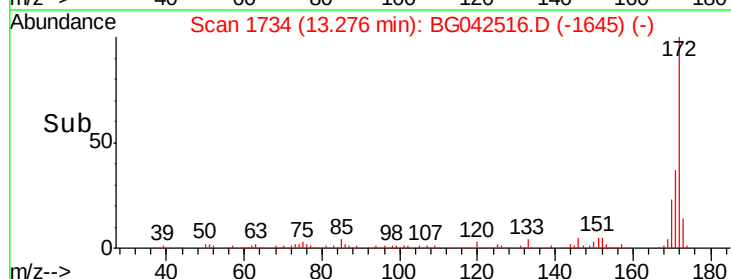


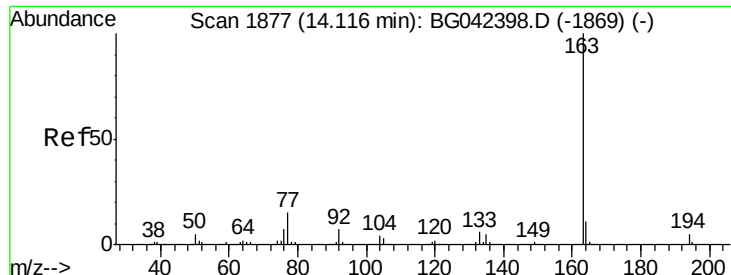
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

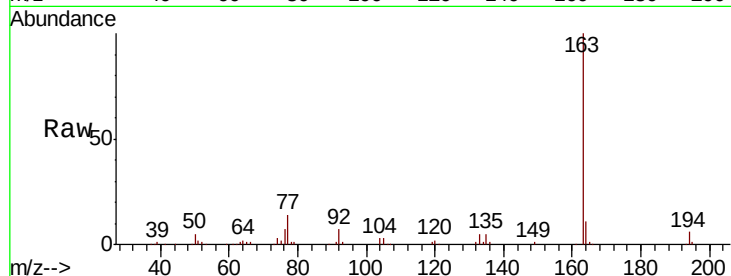




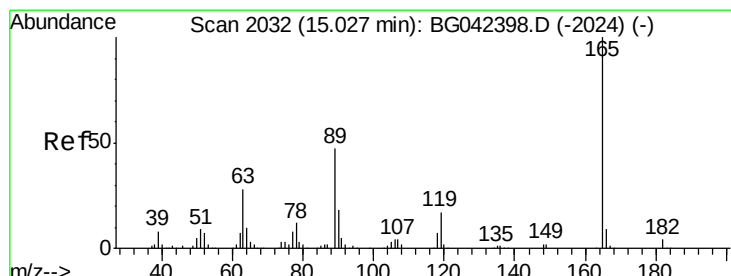
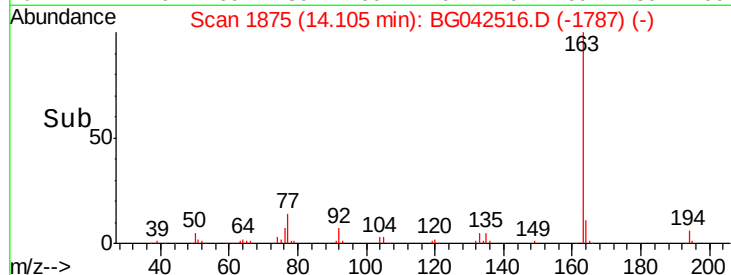
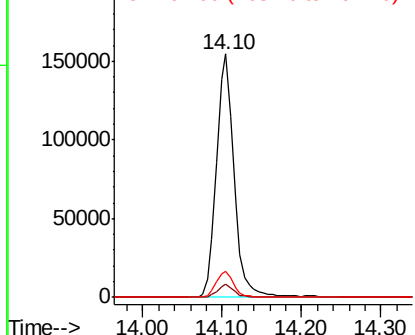
#50
Dimethylphthalate
Concen: 33.446 ng
RT: 14.10 min Scan# 1875
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion:163 Resp: 239749
Ion Ratio Lower Upper
163 100
194 5.5 4.2 6.2
164 10.6 8.8 13.2

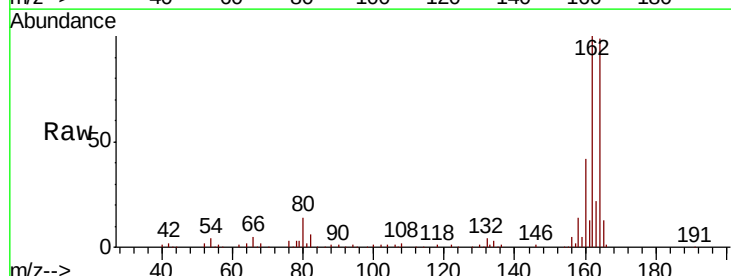


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

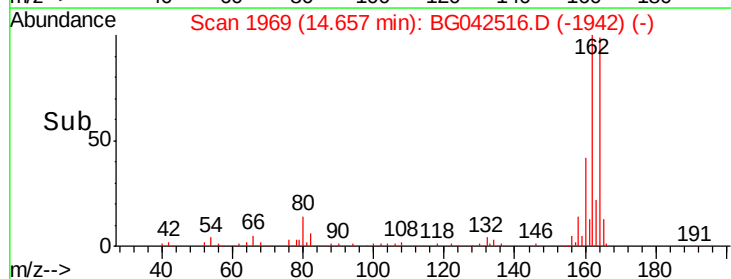
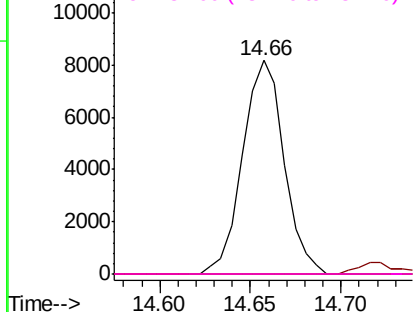


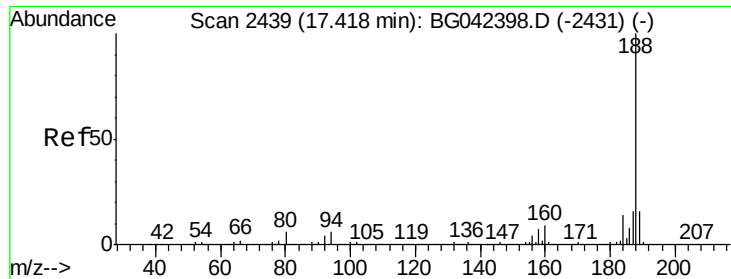
#57
2,4-Dinitrotoluene
Concen: 5.434 ng
RT: 14.66 min Scan# 1969
Delta R.T. -0.37 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion:165 Resp: 12930
Ion Ratio Lower Upper
165 100
63 0.0 22.5 33.7#
89 0.0 37.8 56.6#
182 0.0 3.0 4.4#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BGC
Ion 89.00 (88.70 to 89.70): BGC
Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.41 min Scan# 2437

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

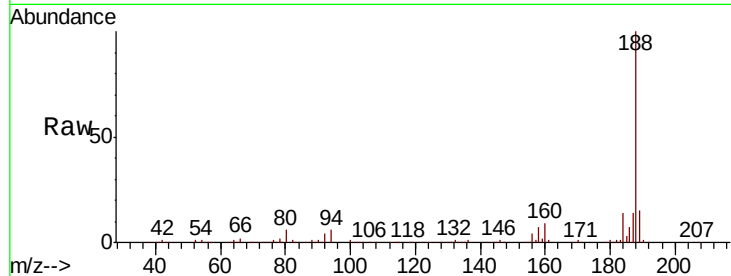
Tot Ion:188 Resp: 249641

Ion Ratio Lower Upper

188 100

94 6.2 4.5 6.7

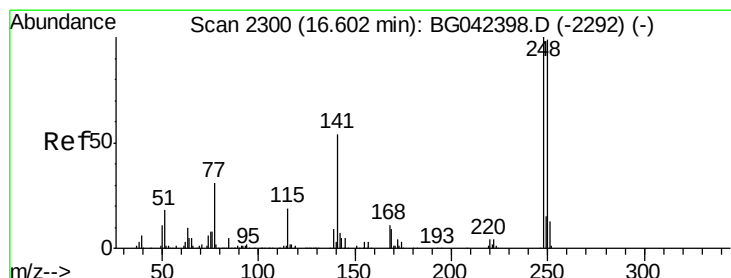
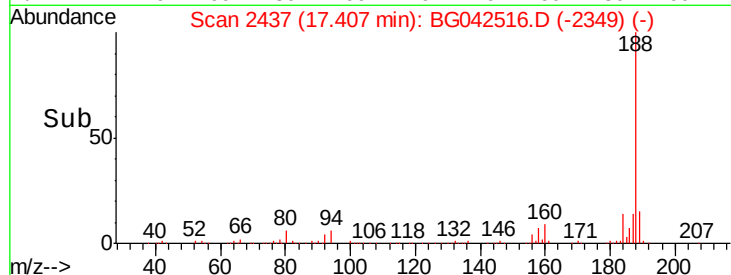
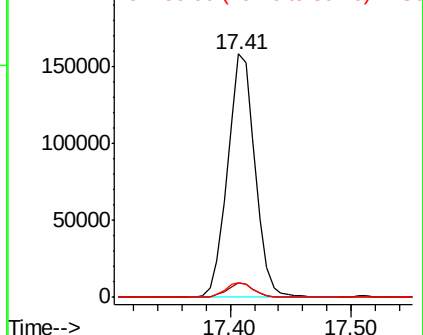
80 5.9 4.9 7.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 2.197 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.45 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

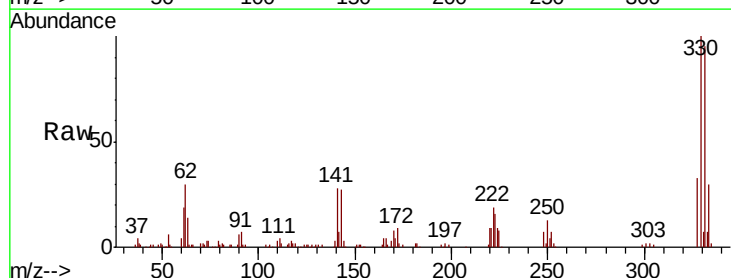
Tgt Ion:248 Resp: 6958

Ion Ratio Lower Upper

248 100

250 191.6 78.9 118.3#

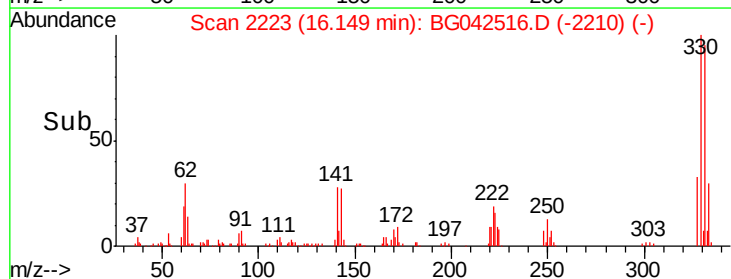
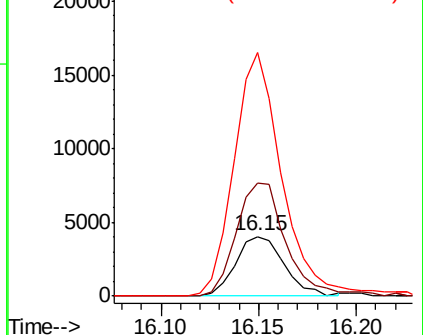
141 410.6 43.3 64.9#

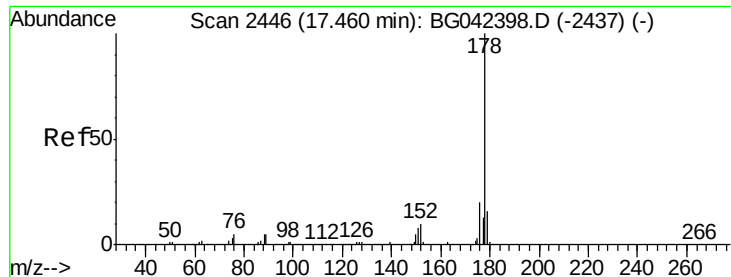


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

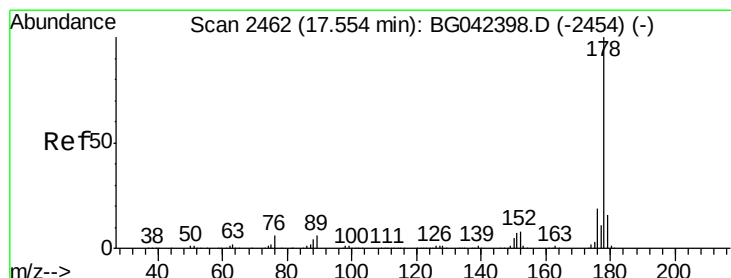
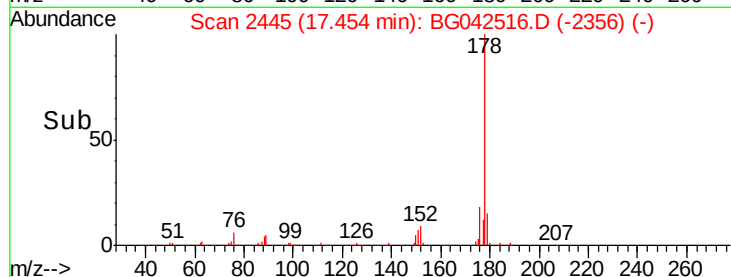
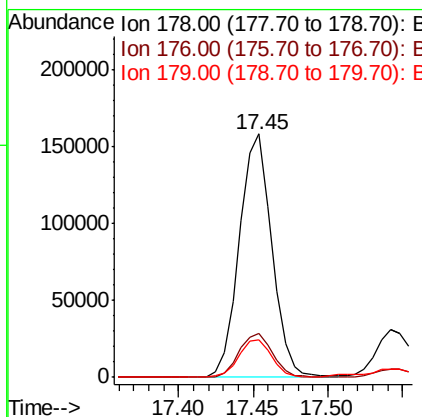
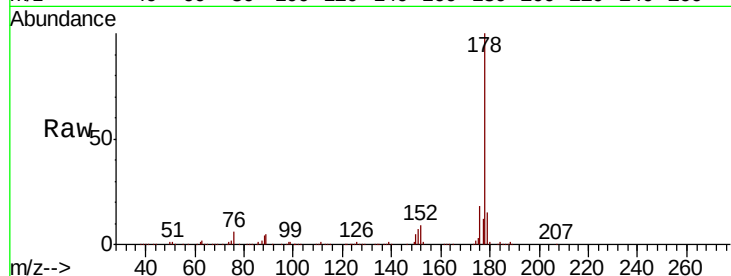




#71
Phenanthrene
Concen: 19.315 ng
RT: 17.45 min Scan# 2445
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

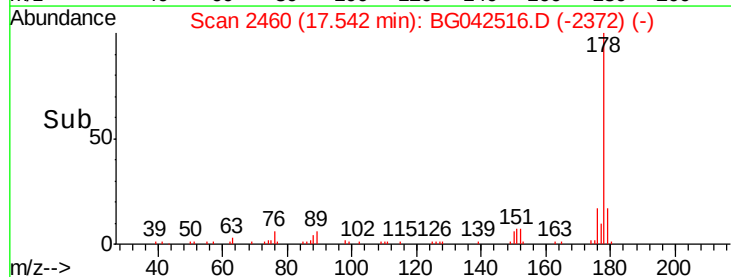
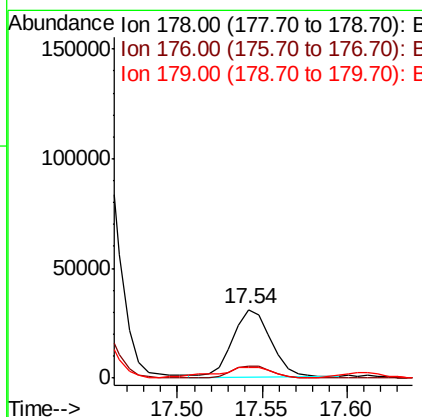
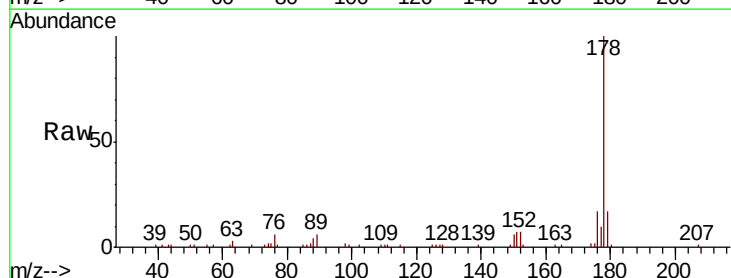
Instrument :
BNA_G
ClientSampleId :

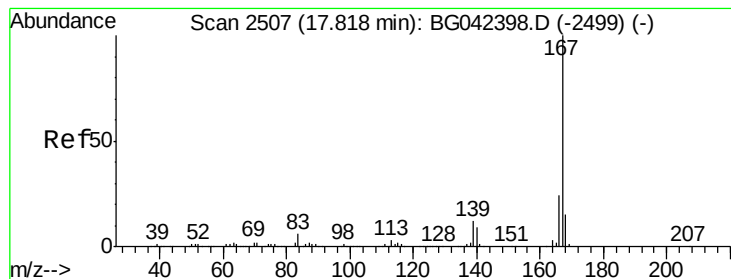
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.9	23.9
179	15.3	12.7	19.1



#72
Anthracene
Concen: 3.907 ng
RT: 17.54 min Scan# 2460
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.2	15.5	23.3
179	16.5	12.9	19.3





#73

Carbazole

Concen: 3.180 ng

RT: 17.82 min Scan# 2507

Delta R.T. 0.00 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

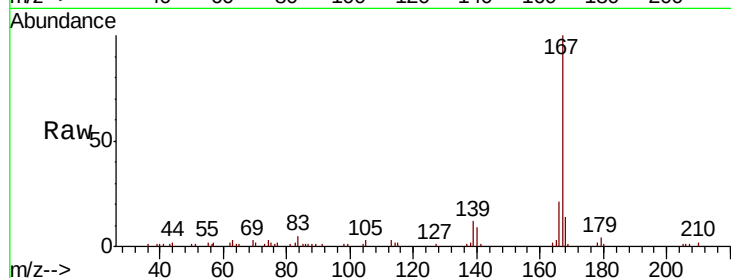
Tot Ion:167 Resp: 35079

Ion Ratio Lower Upper

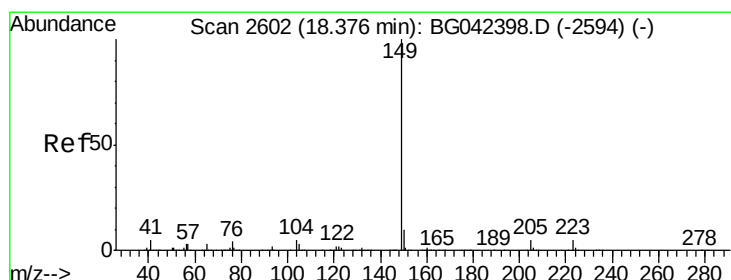
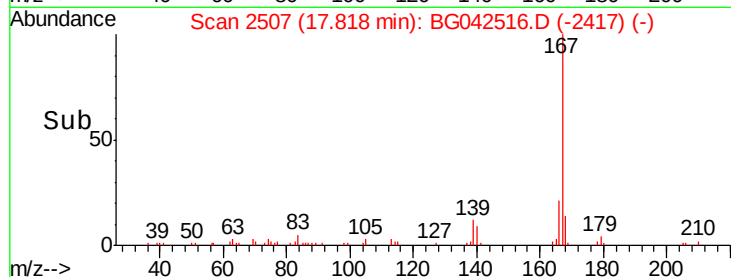
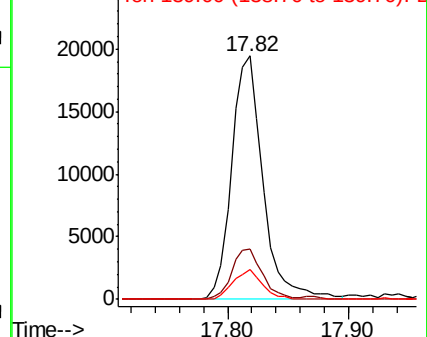
167 100

166 20.5 18.9 28.3

139 12.1 9.8 14.6



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



#74

Di-n-butylphthalate

Concen: 2.094 ng

RT: 18.37 min Scan# 2601

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

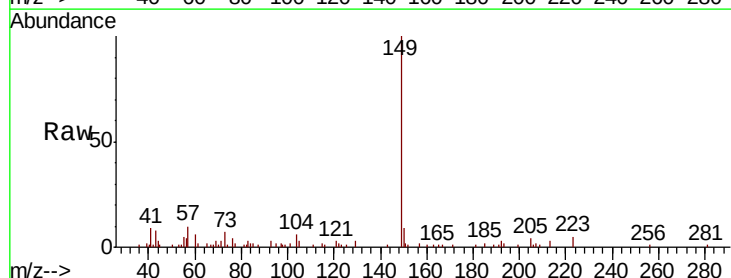
Tgt Ion:149 Resp: 27305

Ion Ratio Lower Upper

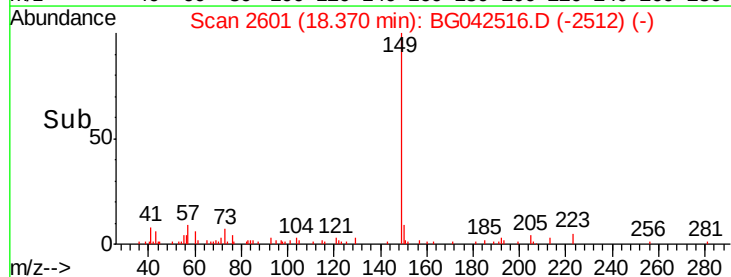
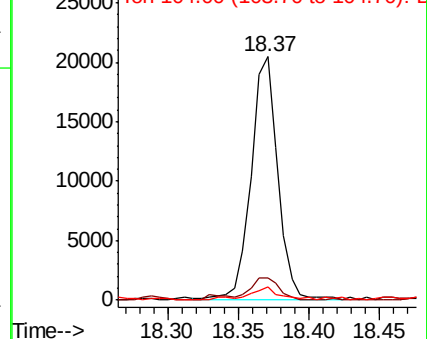
149 100

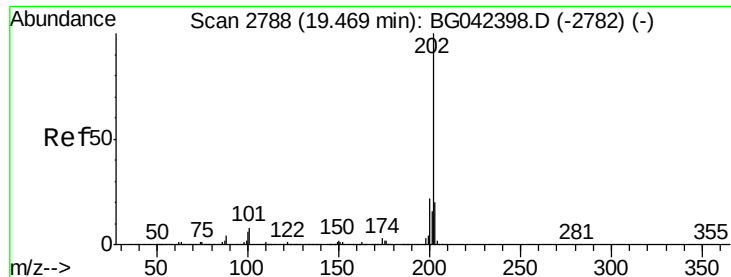
150 8.9 8.1 12.1

104 5.5 3.7 5.5#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 35.179 ng

RT: 19.46 min Scan# 2787

Delta R.T. -0.01 min

Lab File: BG042516.D

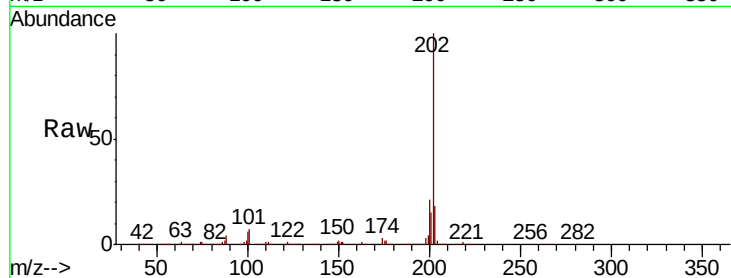
Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampled :

Tot Ion:	202	Resp:	532372
Ion	Ratio	Lower	Upper
202	100		
101	7.1	0.0	28.3
203	18.2	0.0	39.6

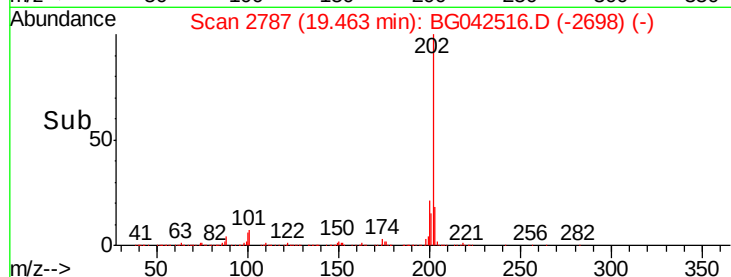


Abundance Ion 202.00 (201.70 to 202.70): E

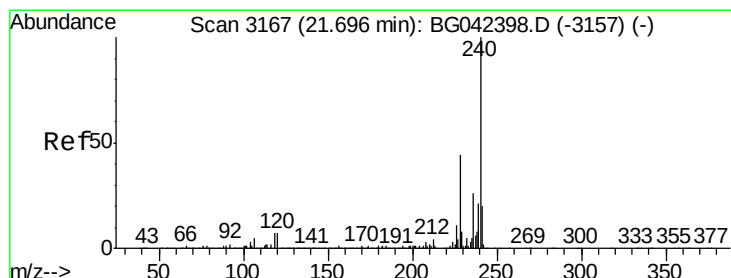
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

19.46



Time-->



#76

Chrysene-d12

Concen: 20.000 ng

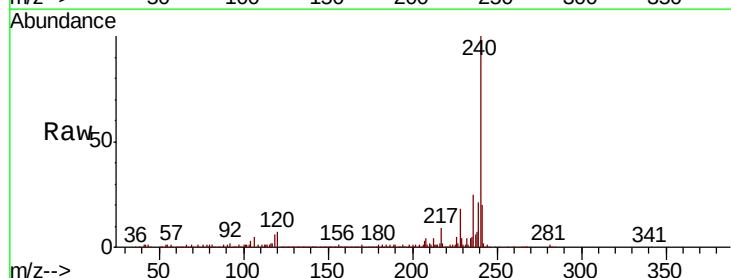
RT: 21.68 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Tgt Ion:	240	Resp:	302256
Ion	Ratio	Lower	Upper
240	100		
120	7.0	5.7	8.5
236	25.2	21.0	31.4

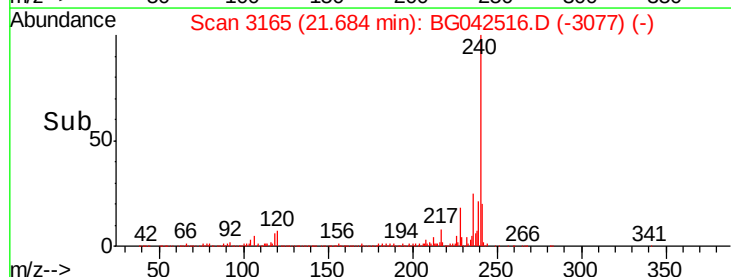


Abundance Ion 240.00 (239.70 to 240.70): E

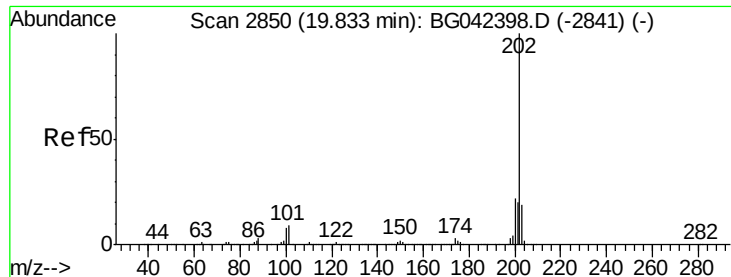
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

21.68



Time-->



#78

Pvrene

Concen: 24.105 ng

RT: 19.83 min Scan# 2849

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

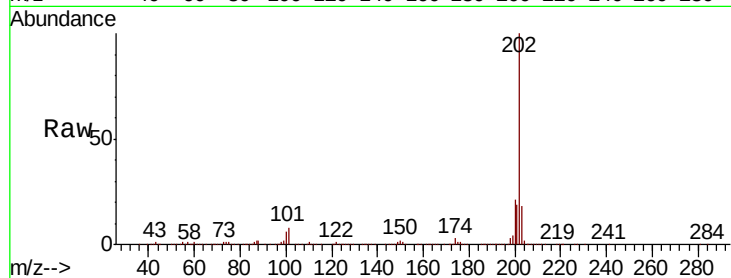
Tot Ion:202 Resp: 446685

Ion Ratio Lower Upper

202 100

200 20.9 17.8 26.6

203 18.4 15.5 23.3

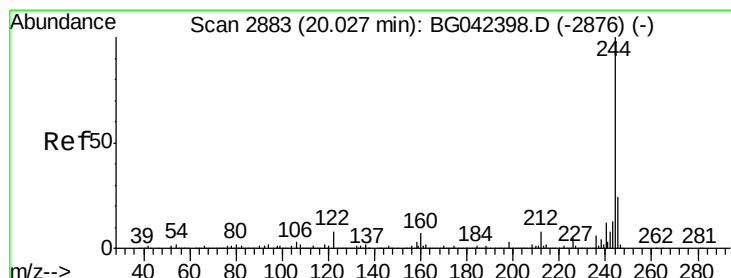
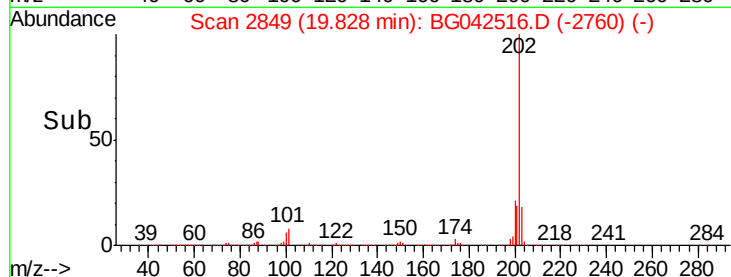
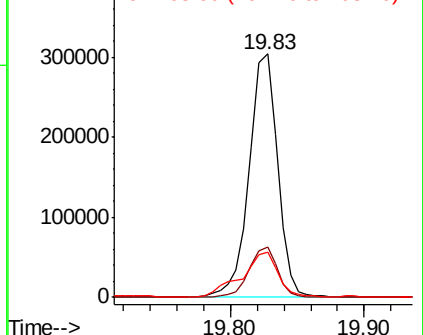


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 38.644 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

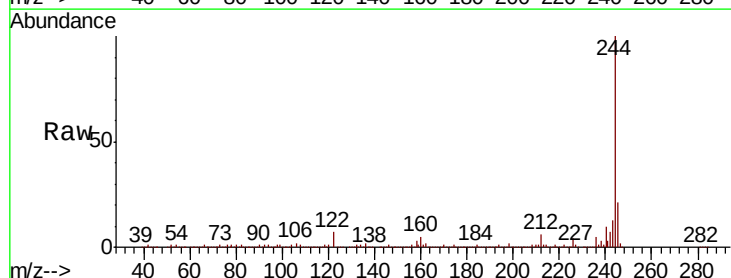
Tgt Ion:244 Resp: 540283

Ion Ratio Lower Upper

244 100

212 6.4 6.0 9.0

122 6.6 6.7 10.1#

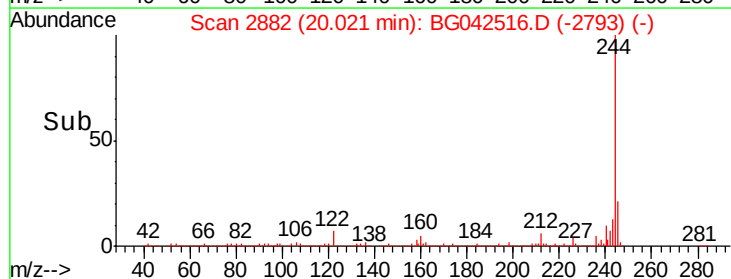
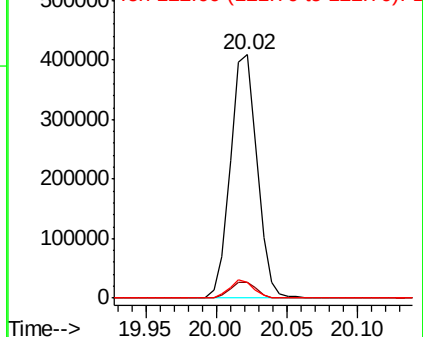


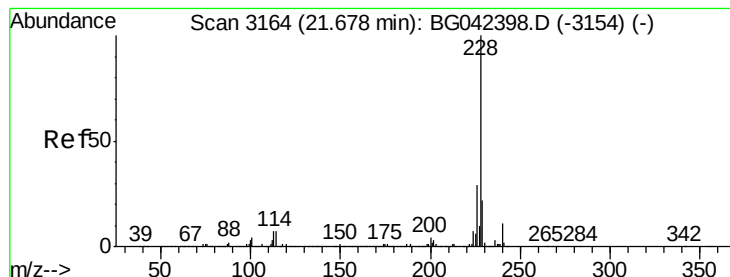
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 13.633 ng

RT: 21.67 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

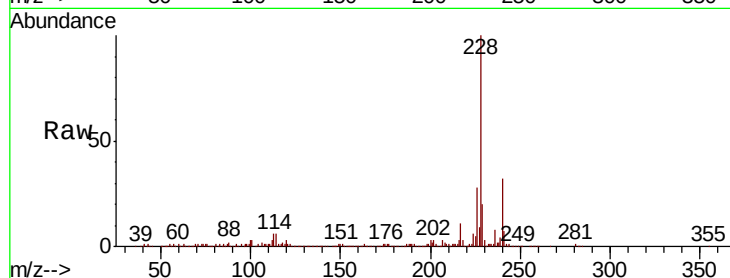
Tot Ion:228 Resp: 250669

Ion Ratio Lower Upper

228 100

226 28.2 23.4 35.2

229 20.4 17.4 26.2

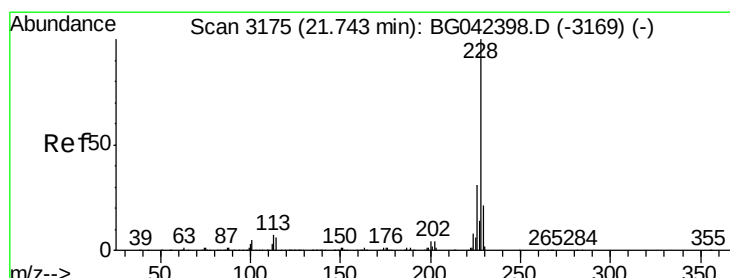
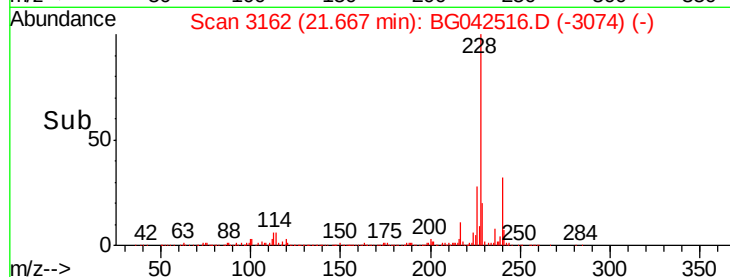
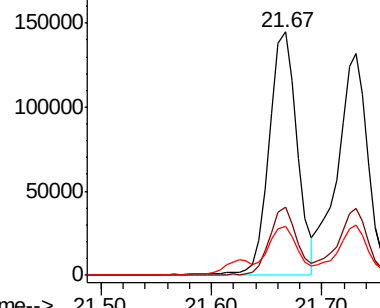


Abundance

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



#83

Chrysene

Concen: 14.395 ng

RT: 21.73 min Scan# 3173

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

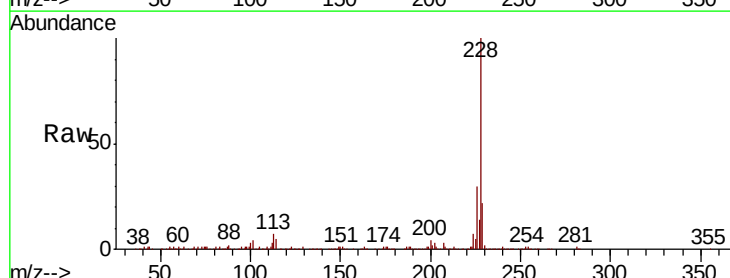
Tgt Ion:228 Resp: 255264

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 22.4 16.9 25.3

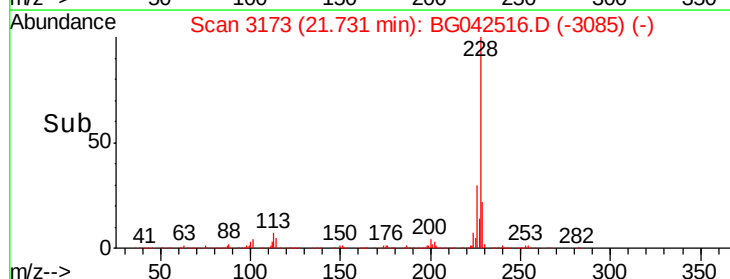
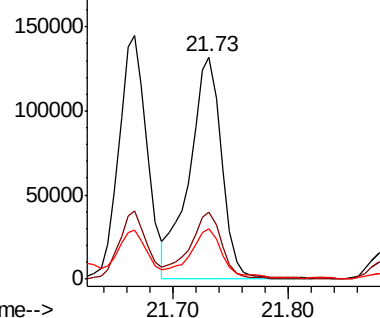


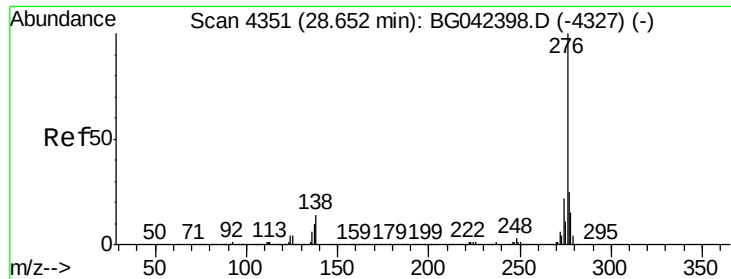
Abundance

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

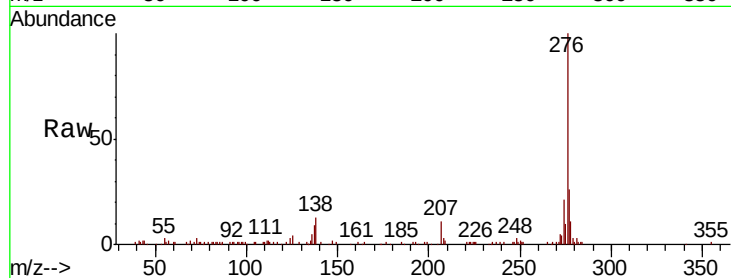




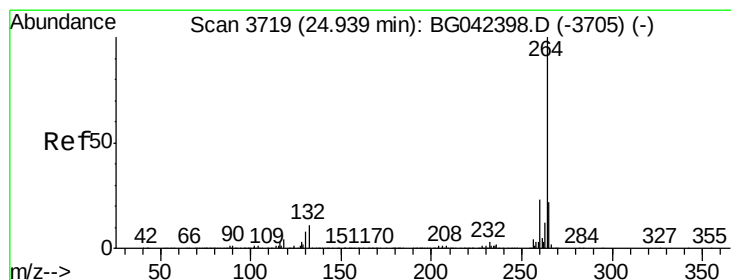
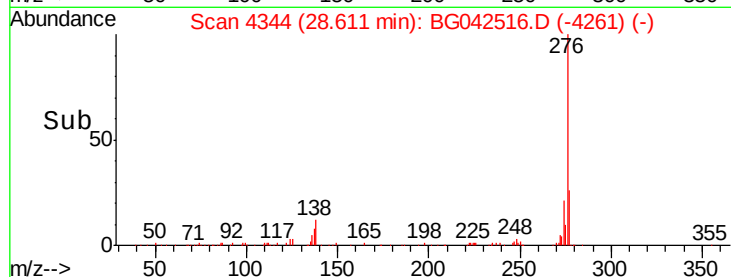
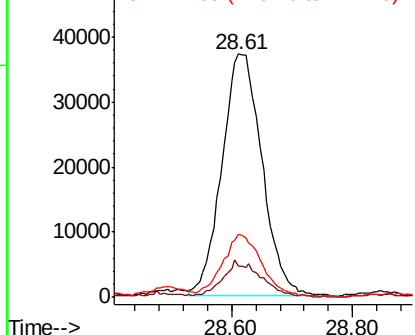
#86
Indeno(1,2,3-cd)pyrene
Concen: 7.093 ng
RT: 28.61 min Scan# 4344
Delta R.T. -0.04 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Instrument :
BNA_G
ClientSampled :

Tot Ion:276 Resp: 170930
Ion Ratio Lower Upper
276 100
138 12.9 9.2 13.8
277 26.0 21.0 31.6

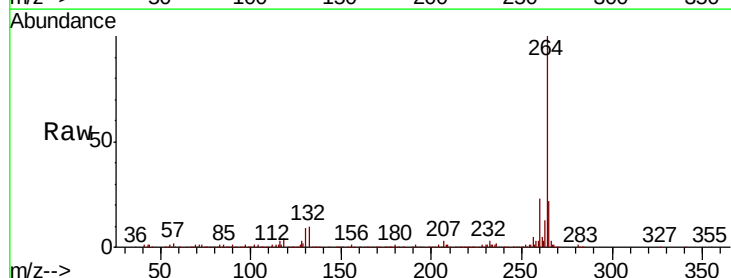


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

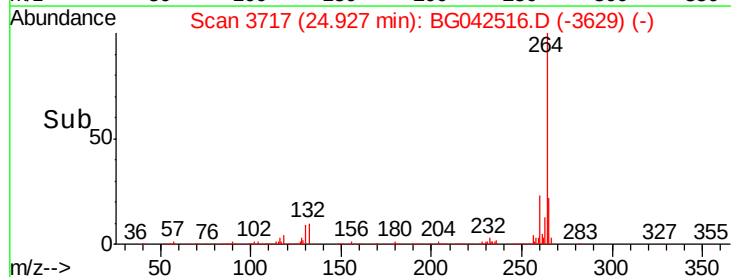
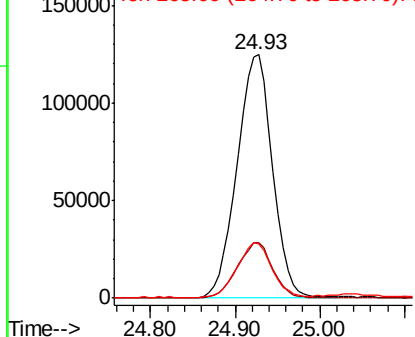


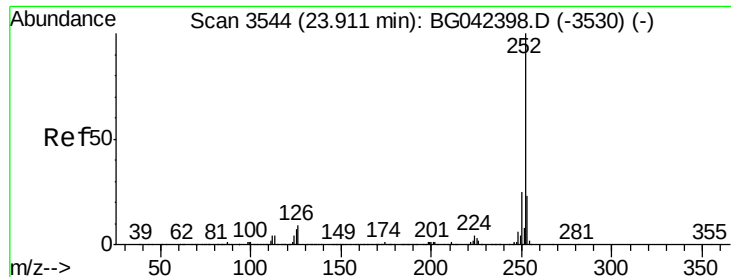
#87
Perylene-d12
Concen: 20.000 ng
RT: 24.93 min Scan# 3717
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion:264 Resp: 363157
Ion Ratio Lower Upper
264 100
260 22.6 18.5 27.7
265 22.4 17.6 26.4



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

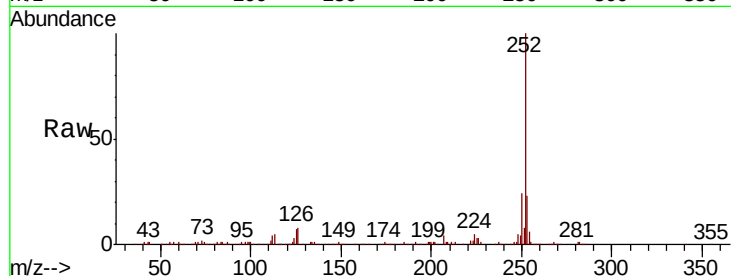




#88
Benzo(b)fluoranthene
Concen: 17.603 ng
RT: 23.90 min Scan# 3542
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.6	27.8
125	6.7	5.6	8.4

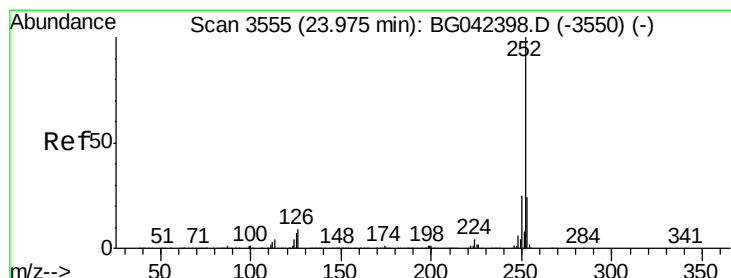
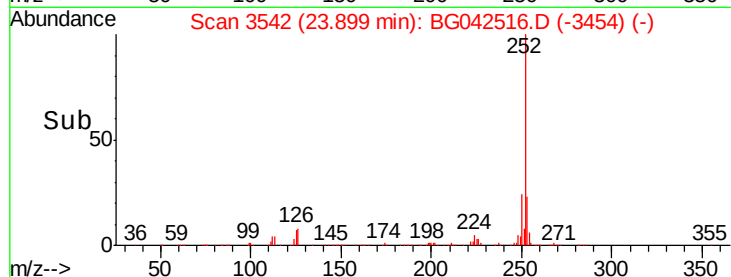
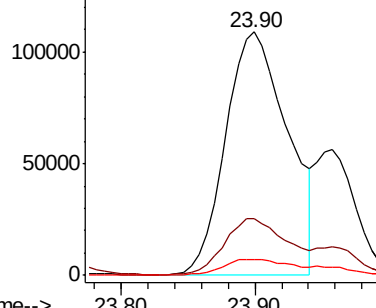


Abundance

Ion 252.00 (251.70 to 252.70): E

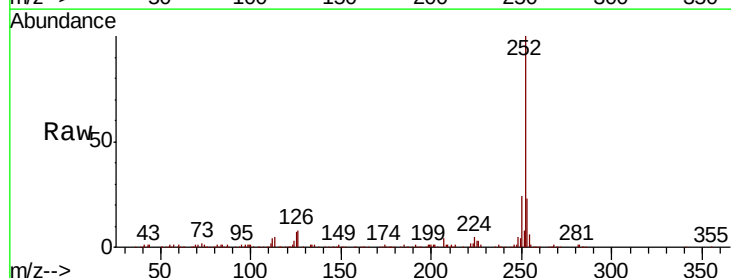
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 18.313 ng
RT: 23.90 min Scan# 3542
Delta R.T. -0.08 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.6	27.8
125	6.7	5.8	8.6

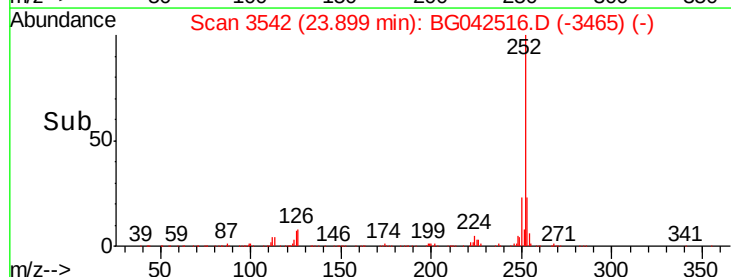
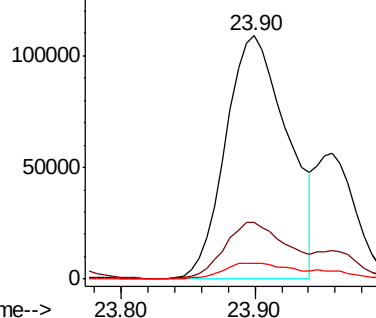


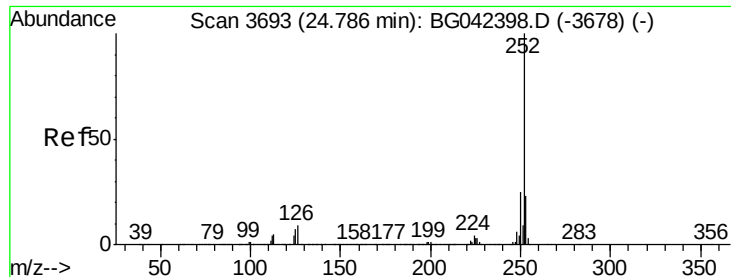
Abundance

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





#90

Benzo(a)pyrene

Concen: 12.445 ng

RT: 24.76 min Scan# 3689

Delta R.T. -0.02 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

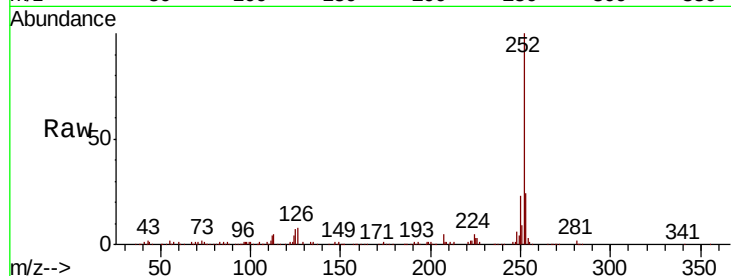
Tot Ion:252 Resp: 235780

Ion Ratio Lower Upper

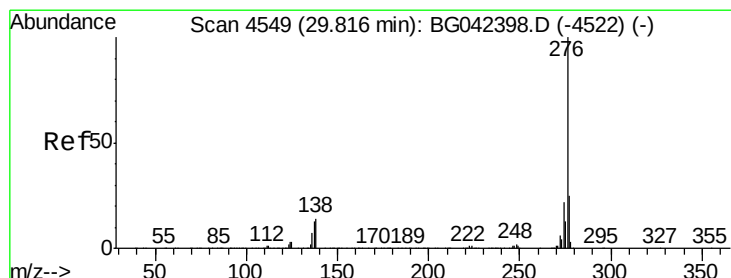
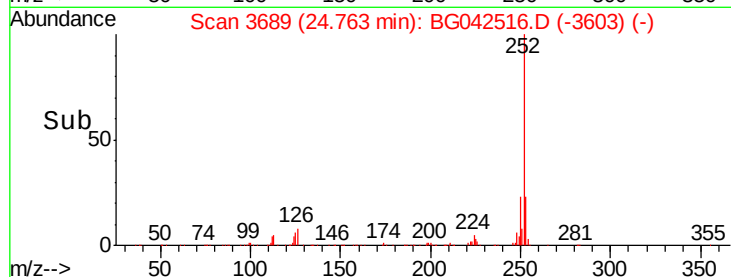
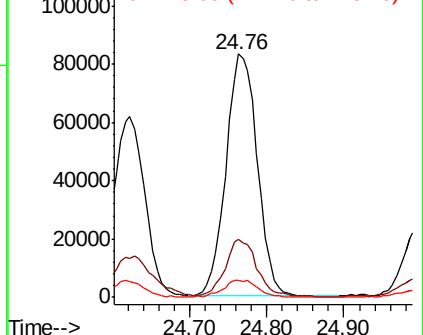
252 100

253 23.6 18.4 27.6

125 6.8 6.0 9.0



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



#92

Benzo(g,h,i)perylene

Concen: 8.886 ng

RT: 29.77 min Scan# 4542

Delta R.T. -0.04 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

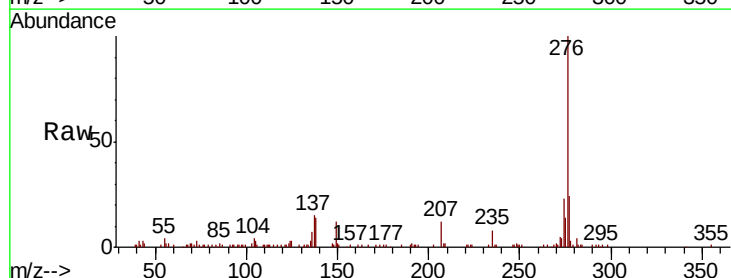
Tgt Ion:276 Resp: 170473

Ion Ratio Lower Upper

276 100

277 23.7 19.8 29.8

138 14.2 11.4 17.0



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

