

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082019\
 Data File : BG042373.D
 Acq On : 21 Aug 2019 1:04
 Operator : HP/JU
 Sample : K4388-13
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 21 04:32:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG081919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 13:40:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.01	152	68202	20.00	ng	0.00
21) Naphthalene-d8	10.84	136	264906	20.00	ng	0.01
39) Acenaphthene-d10	14.67	164	177945	20.00	ng	0.00
64) Phenanthrene-d10	17.42	188	346357	20.00	ng	0.00
76) Chrysene-d12	21.70	240	362652	20.00	ng	0.00
87) Perylene-d12	24.96	264	437789	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.57	112	307944	91.48	ng	0.01
7) Phenol-d6	7.18	99	419497	91.76	ng	0.02
23) Nitrobenzene-d5	9.18	82	232977	61.86	ng	0.00
42) 2,4,6-Tribromophenol	16.17	330	217026	89.55	ng	0.01
45) 2-Fluorobiphenyl	13.29	172	580602	55.21	ng	0.00
79) Terphenyl-d14	20.03	244	787082	47.54	ng	0.00

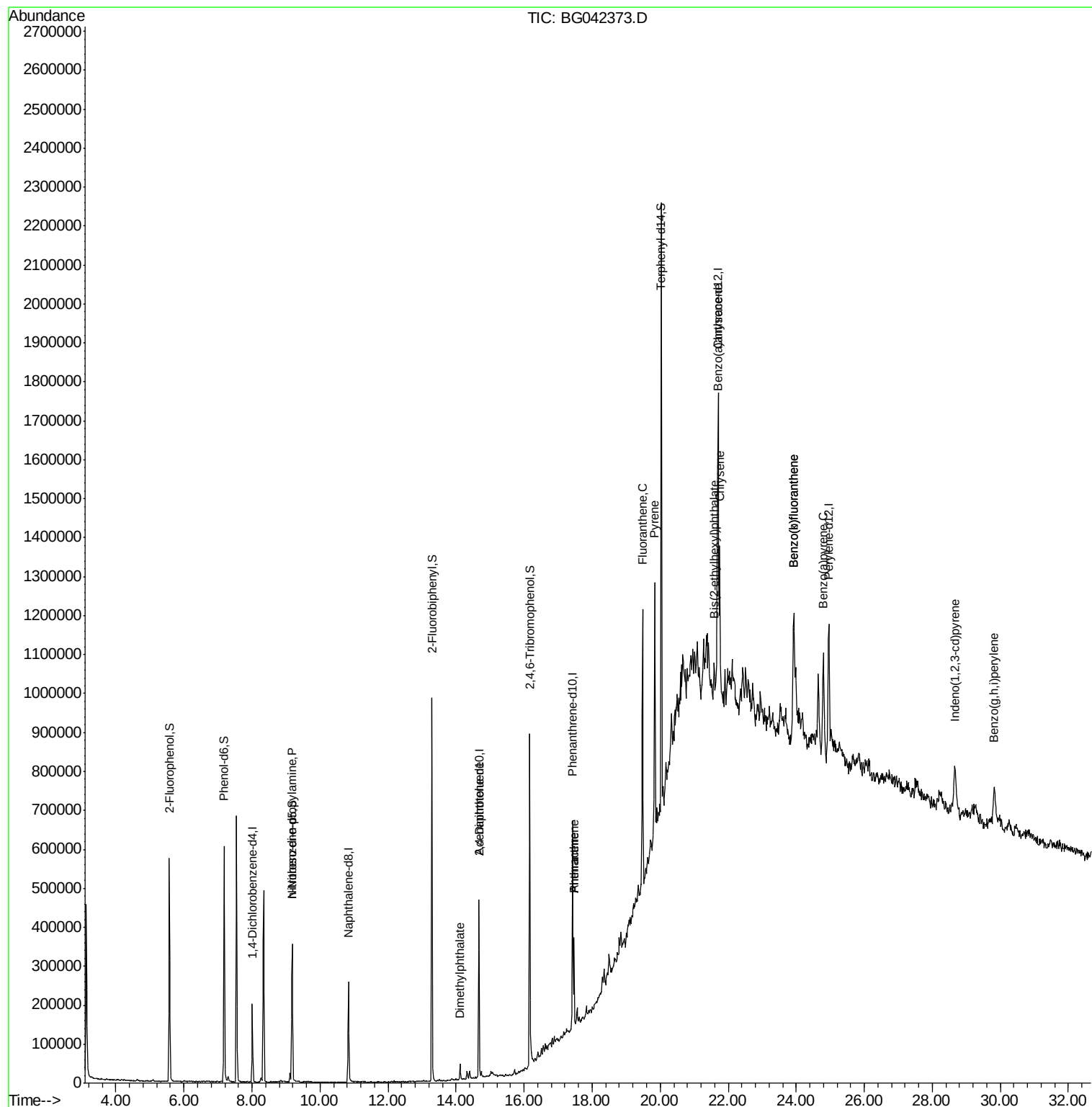
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	9.18	70	30437	10.351	ng	# 75
50) Dimethylphthalate	14.12	163	33532	2.652	ng	# 96
57) 2,4-Dinitrotoluene	14.67	165	23759	5.742	ng	# 38
71) Phenanthrene	17.46	178	158191	9.171	ng	98
72) Anthracene	17.46	178	158191	9.195	ng	99
75) Fluoranthene	19.48	202	494839	23.789	ng	99
78) Pyrene	19.84	202	435136	19.500	ng	99
81) Benzo(a)anthracene	21.68	228	275257	12.360	ng	97
83) Chrysene	21.75	228	283791	13.321	ng	99
84) Bis(2-ethylhexyl)phthalate	21.58	149	26192	2.124	ng	# 86
86) Indeno(1,2,3-cd)pyrene	28.66	276	211880	7.449	ng	# 95
88) Benzo(b)fluoranthene	23.93	252	416565	17.311	ng	# 96
89) Benzo(k)fluoranthene	23.93	252	416565	17.710	ng	# 96
90) Benzo(a)pyrene	24.80	252	278636	12.084	ng	# 92
92) Benzo(a,h,i)perylene	29.81	276	204218	8.909	ng	95

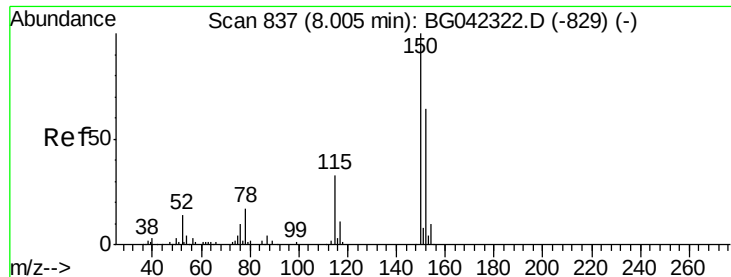
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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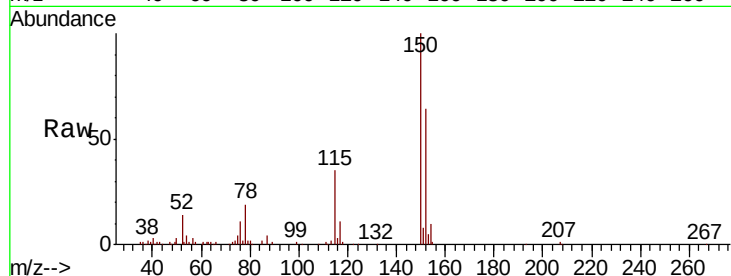


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.01 min Scan# 838
Delta R.T. 0.01 min
Lab File: BG042373.D
Acq: 21 Aug 2019 1:04

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.3	186.5
115	54.9	40.5	60.7

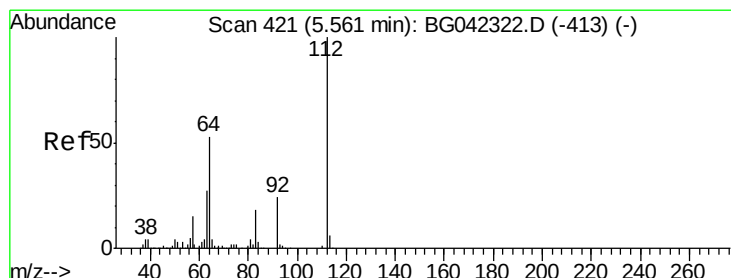
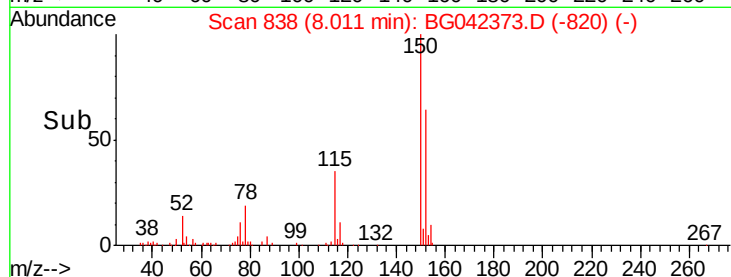
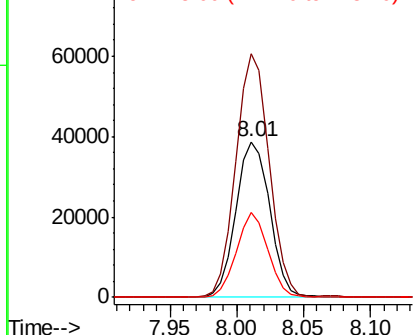


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

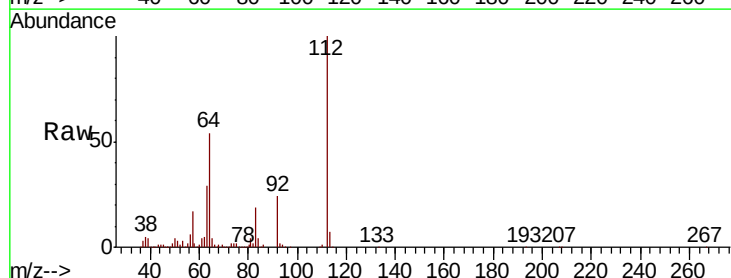
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 91.482 ng
RT: 5.57 min Scan# 423
Delta R.T. 0.01 min
Lab File: BG042373.D
Acq: 21 Aug 2019 1:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	42.5	63.7
63	29.0	21.7	32.5

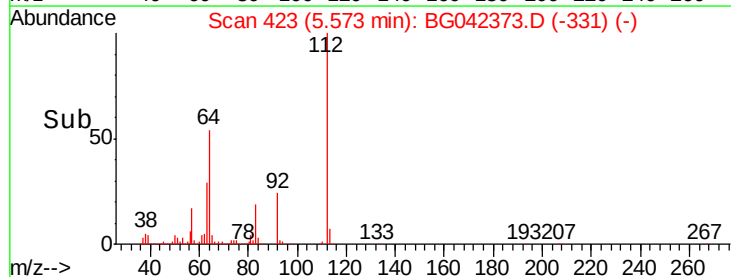
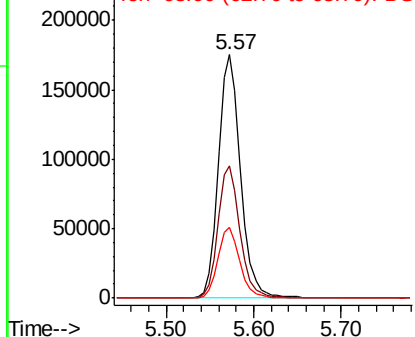


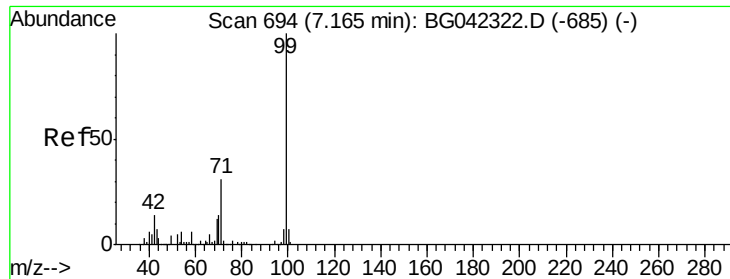
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 91.760 ng

RT: 7.18 min Scan# 697

Delta R.T. 0.02 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampleId :

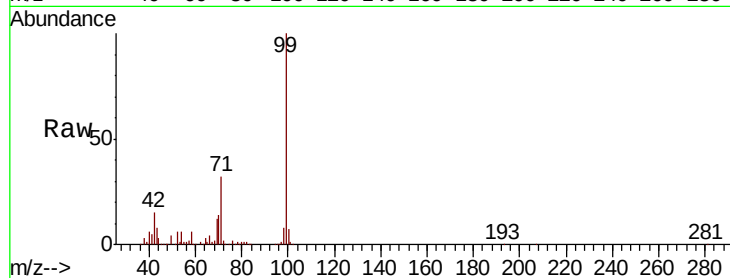
Tot Ion: 99 Resp: 419497

Ion Ratio Lower Upper

99 100

42 14.8 11.4 17.0

71 32.0 25.1 37.7

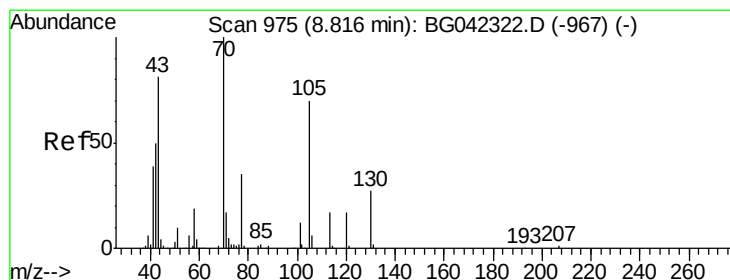
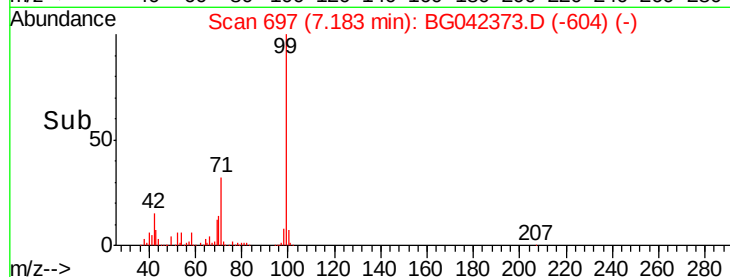
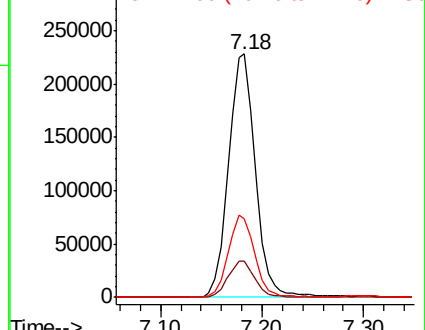


Abundance

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



#19

n-Nitroso-di-n-propylamine

Concen: 10.351 ng

RT: 9.18 min Scan# 1037

Delta R.T. 0.36 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Tgt Ion: 70 Resp: 30437

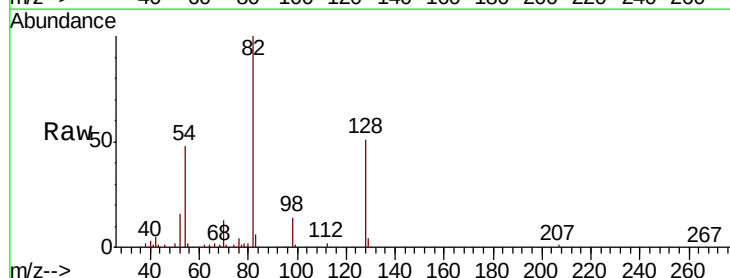
Ion Ratio Lower Upper

70 100

42 42.0 40.5 60.7

101 0.0 9.3 13.9#

130 2.8 22.0 33.0#



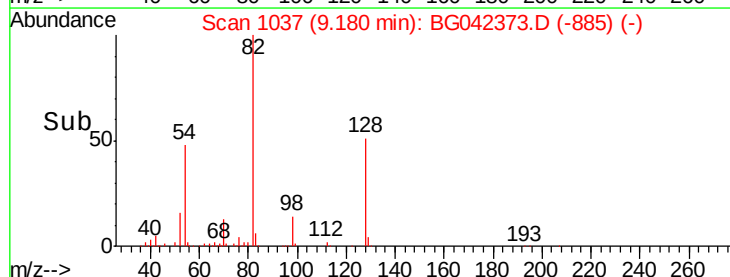
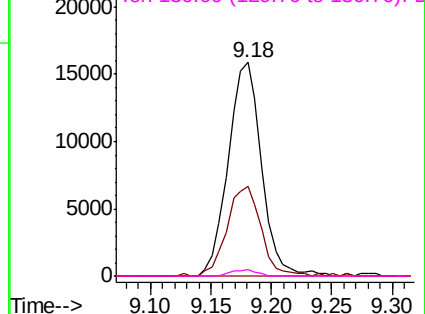
Abundance

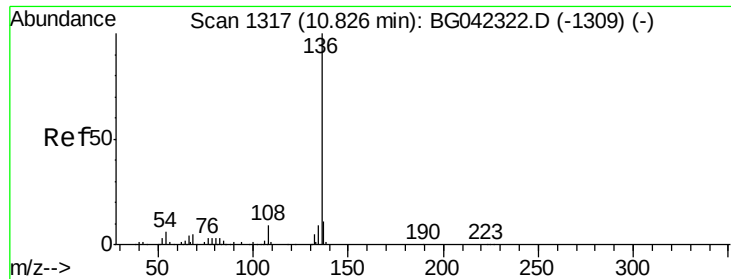
Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC

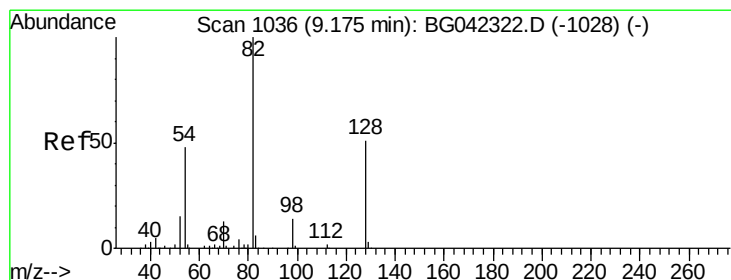
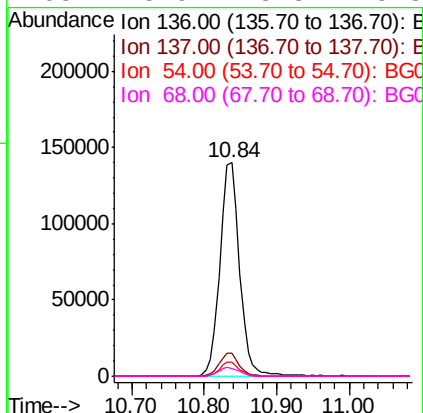
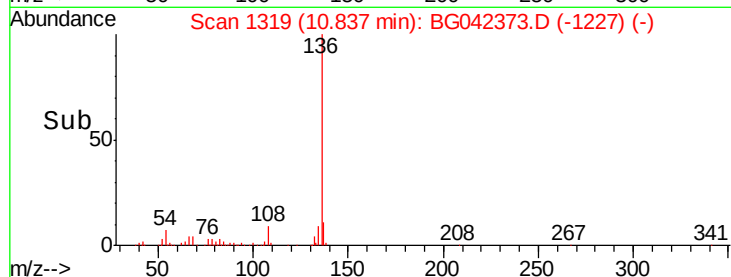
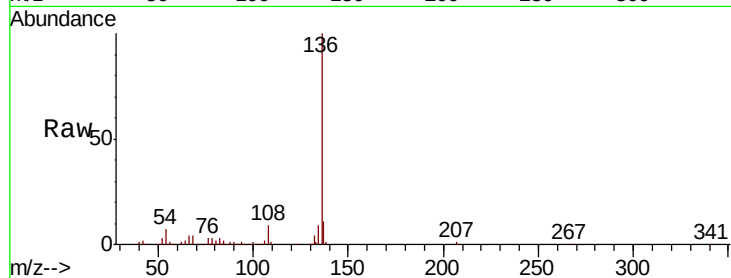




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.84 min Scan# 1319
Delta R.T. 0.01 min
Lab File: BG042373.D
Acq: 21 Aug 2019 1:04

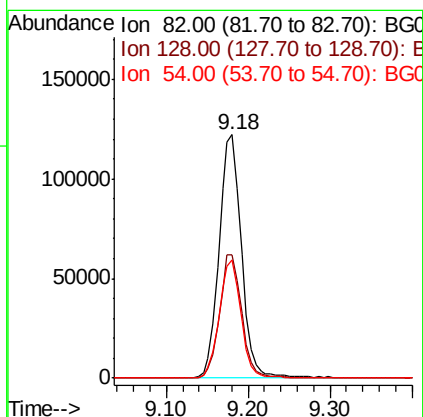
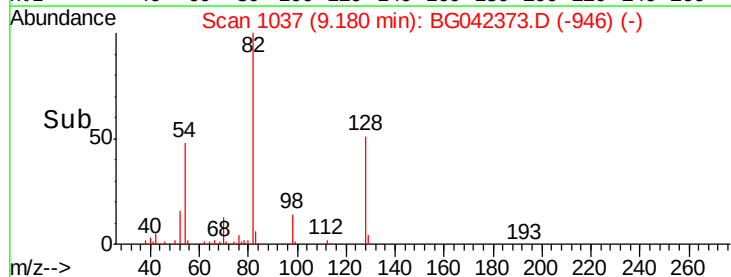
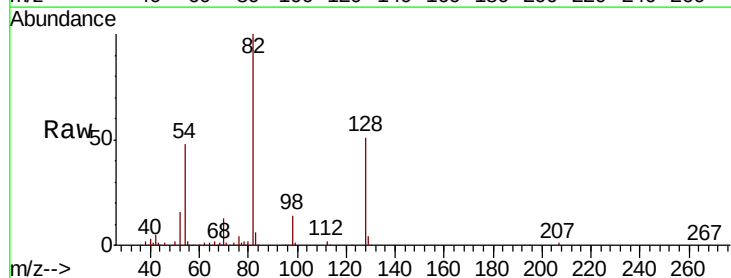
Instrument :
BNA_G
ClientSampleId :

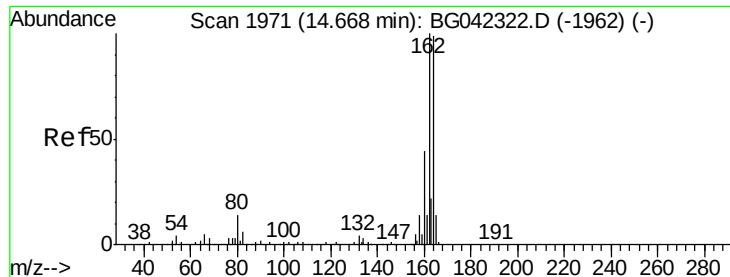
Tot Ion:136	Resp: 264906
Ion Ratio	Lower Upper
136 100	
137 10.8	8.4 12.6
54 6.7	5.0 7.4
68 3.9	3.8 5.8



#23
Nitrobenzene-d5
Concen: 61.856 ng
RT: 9.18 min Scan# 1037
Delta R.T. 0.01 min
Lab File: BG042373.D
Acq: 21 Aug 2019 1:04

Tgt	Ion: 82	Resp:	232977
Ion	Ratio	Lower	Upper
82	100		
128	50.9	41.0	61.4
54	48.3	38.0	57.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.67 min Scan# 1971

Delta R.T. -0.00 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampleId :

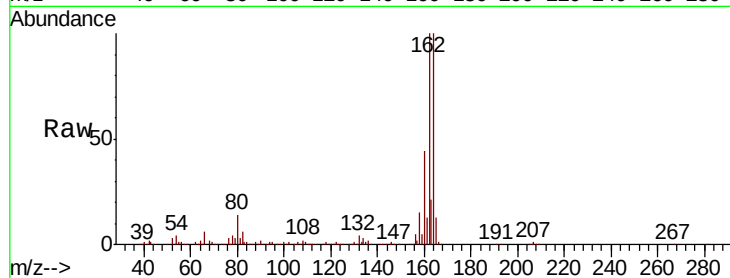
Tot Ion:164 Resp: 177945

Ion Ratio Lower Upper

164 100

162 99.8 80.6 120.8

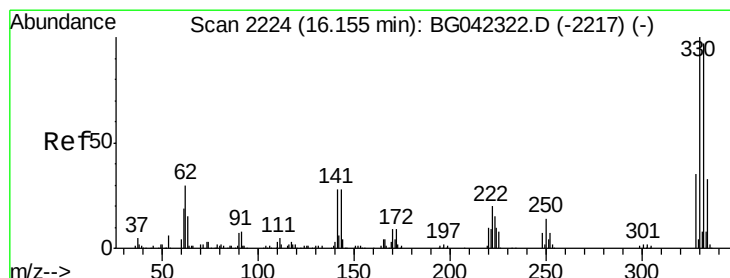
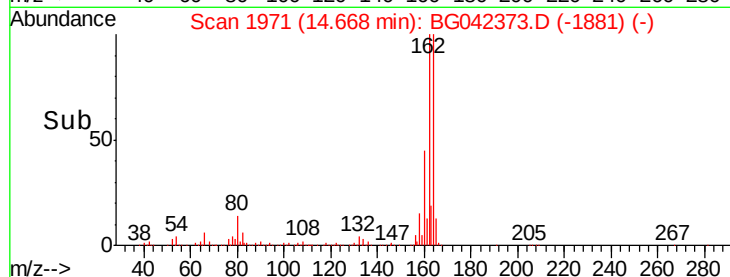
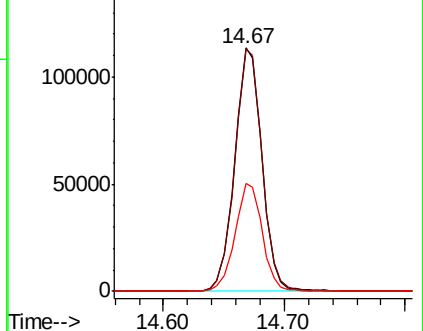
160 44.4 35.7 53.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 89.548 ng

RT: 16.17 min Scan# 2226

Delta R.T. 0.01 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

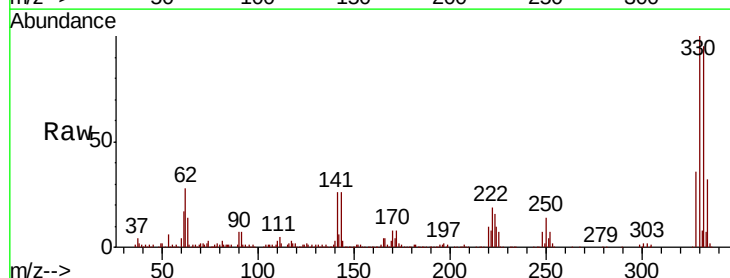
Tgt Ion:330 Resp: 217026

Ion Ratio Lower Upper

330 100

332 96.6 76.9 115.3

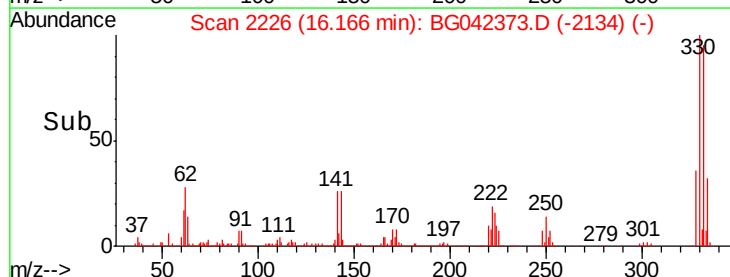
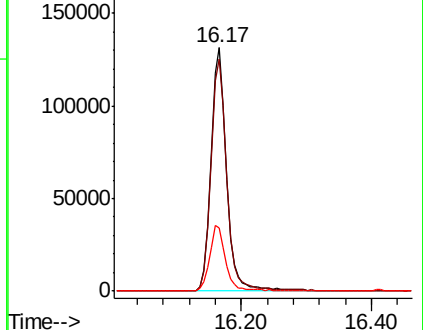
141 27.7 21.8 32.6

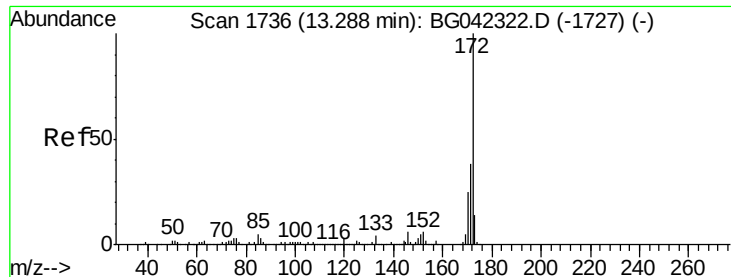


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

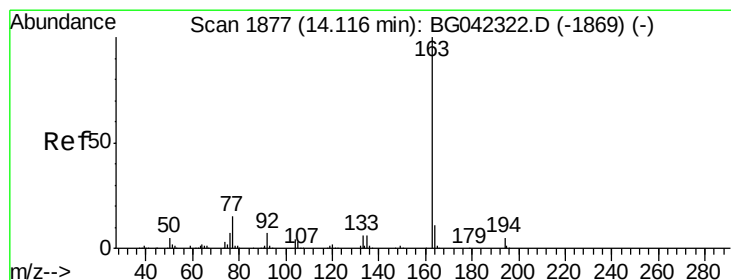
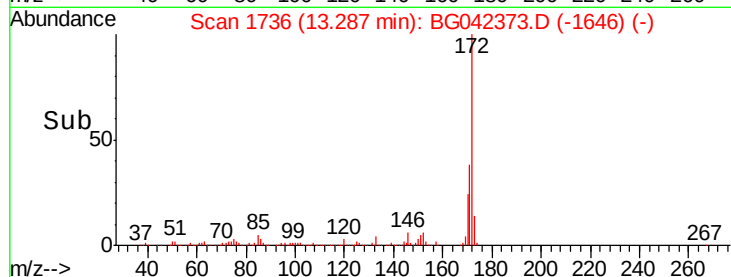
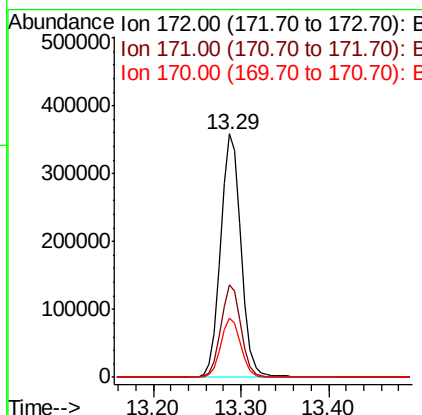
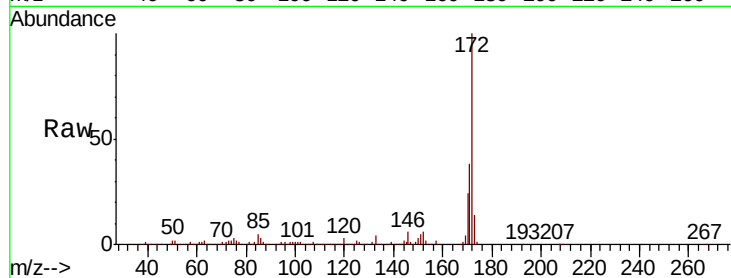




#45
2-Fluorobiphenyl
Concen: 55.212 ng
RT: 13.29 min Scan# 1736
Delta R.T. -0.00 min
Lab File: BG042373.D
Acq: 21 Aug 2019 1:04

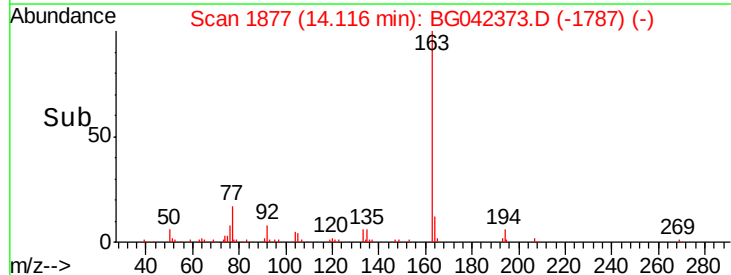
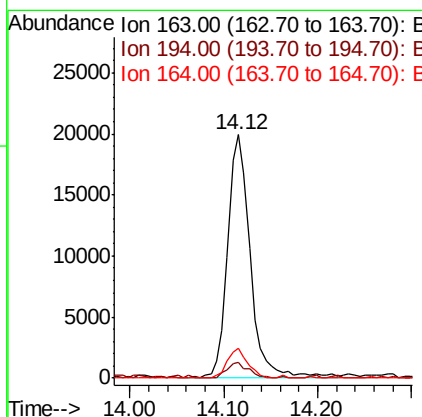
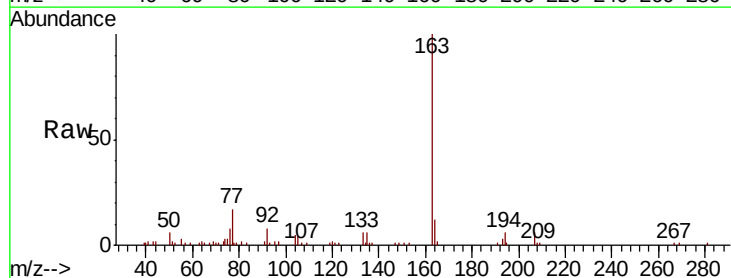
Instrument :
BNA_G
ClientSampleId :

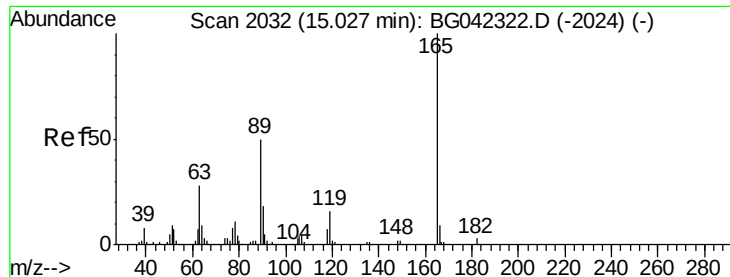
Tot Ion	Ratio	Lower	Upper
172	100		
171	37.9	30.3	45.5
170	24.4	20.0	30.0



#50
Dimethylphthalate
Concen: 2.652 ng
RT: 14.12 min Scan# 1877
Delta R.T. -0.00 min
Lab File: BG042373.D
Acq: 21 Aug 2019 1:04

Tgt Ion	Ratio	Lower	Upper
163	100		
194	6.3	4.2	6.2#
164	12.5	8.8	13.2

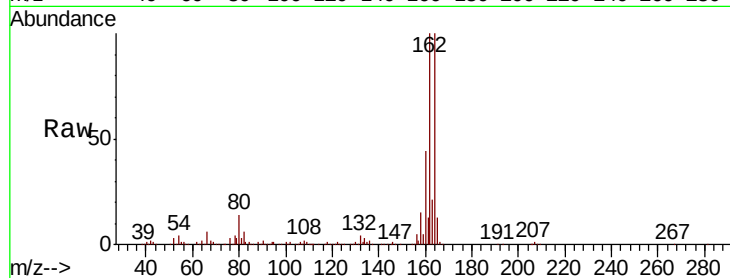




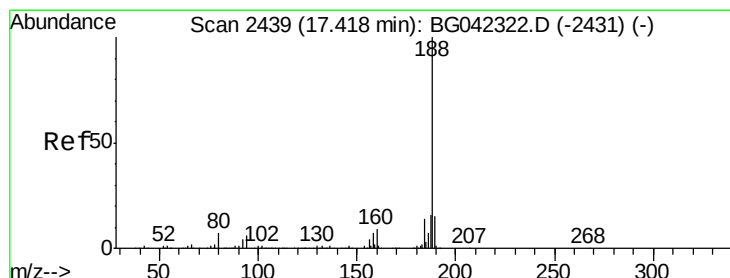
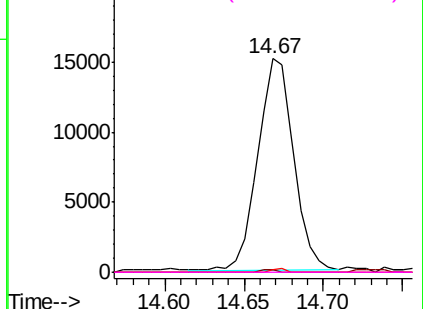
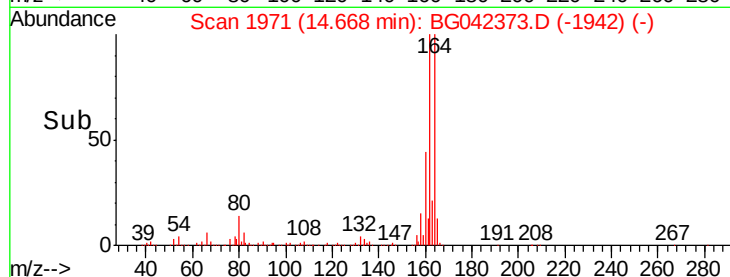
#57
 2,4-Dinitrotoluene
 Concen: 5.742 ng
 RT: 14.67 min Scan# 1971
 Delta R.T. -0.36 min
 Lab File: BG042373.D
 Acq: 21 Aug 2019 1:04

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	22.4	33.6#
89	1.1	40.2	60.2#
182	0.0	2.6	3.8#

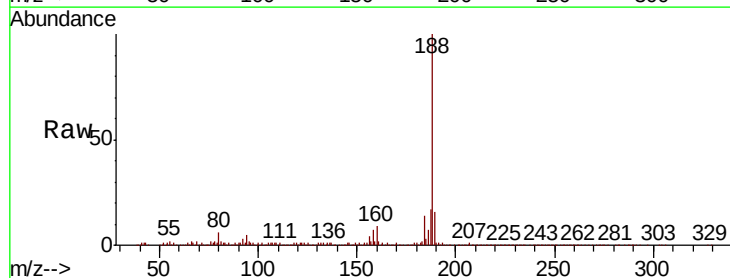


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BGC
 Ion 89.00 (88.70 to 89.70): BGC
 Ion 182.00 (181.70 to 182.70): E

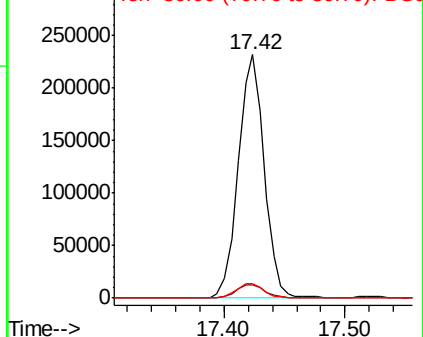
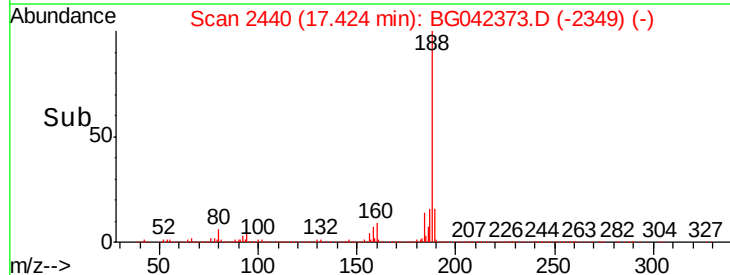


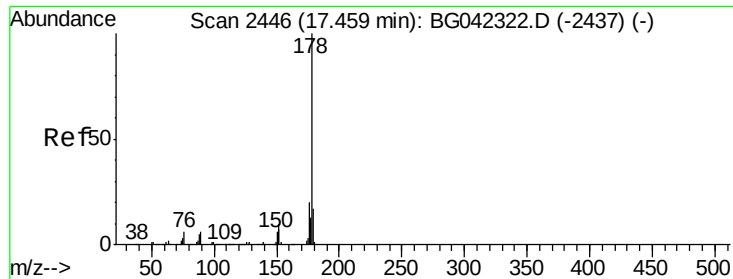
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.42 min Scan# 2440
 Delta R.T. 0.01 min
 Lab File: BG042373.D
 Acq: 21 Aug 2019 1:04

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.4	4.9	7.3
80	6.0	5.4	8.0



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BGC
 Ion 80.00 (79.70 to 80.70): BGC





#71

Phenanthrene

Concen: 9.171 ng

RT: 17.46 min Scan# 2447

Delta R.T. 0.01 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampleId :

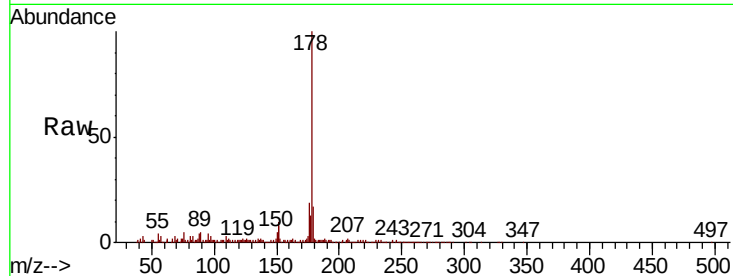
Tot Ion:178 Resp: 158191

Ion Ratio Lower Upper

178 100

176 18.7 16.2 24.4

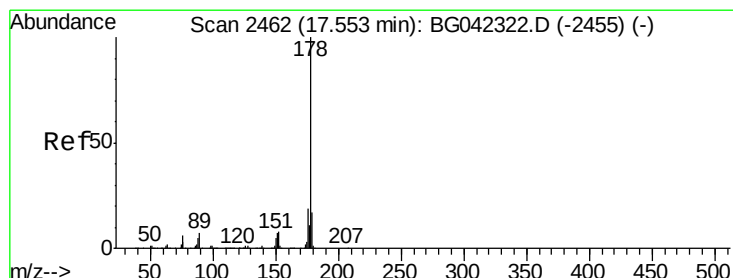
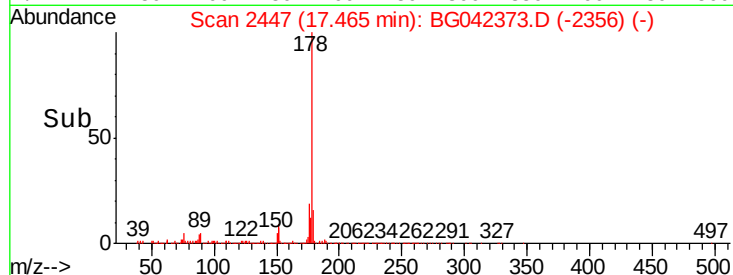
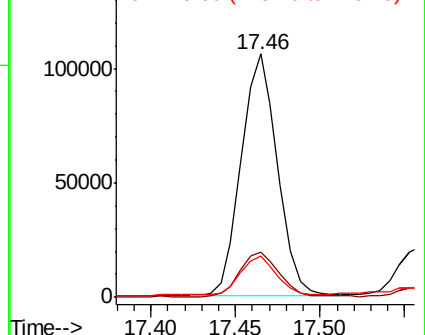
179 16.9 13.7 20.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 9.195 ng

RT: 17.46 min Scan# 2447

Delta R.T. -0.09 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

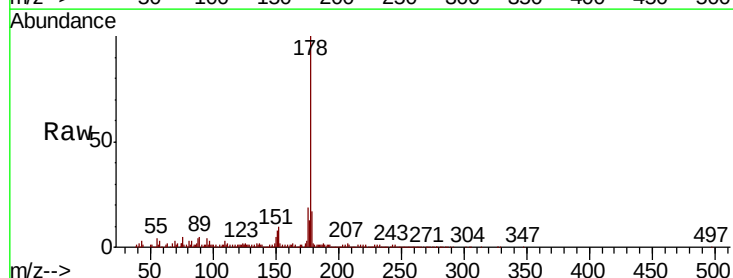
Tgt Ion:178 Resp: 158191

Ion Ratio Lower Upper

178 100

176 18.7 15.5 23.3

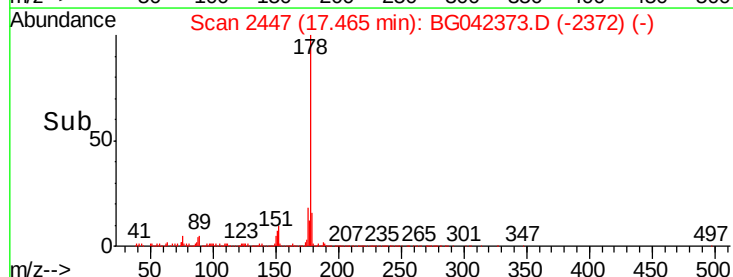
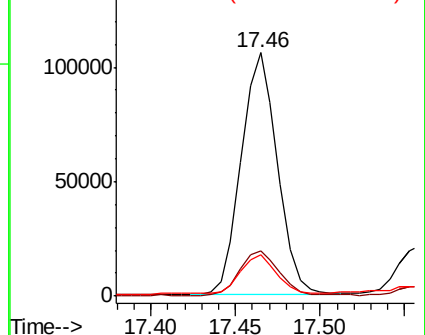
179 16.9 13.6 20.4

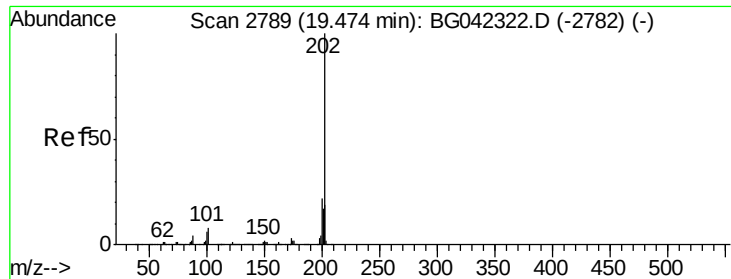


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 23.789 ng

RT: 19.48 min Scan# 2790

Delta R.T. 0.01 min

Lab File: BG042373.D

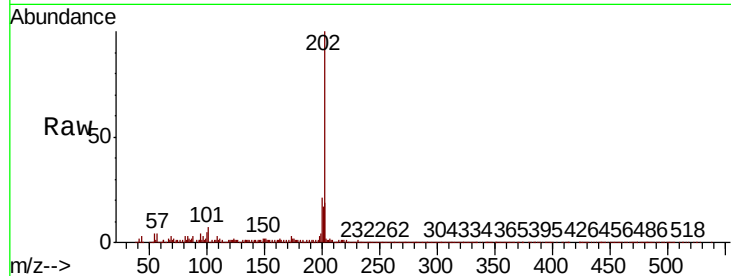
Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampled :

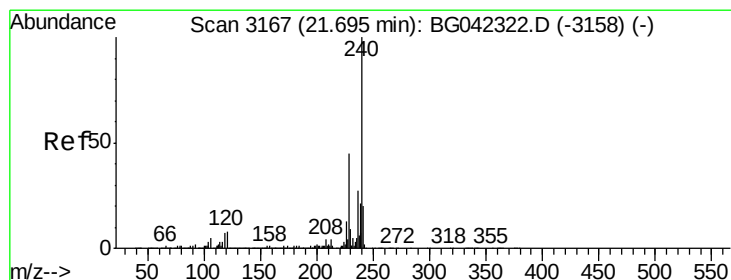
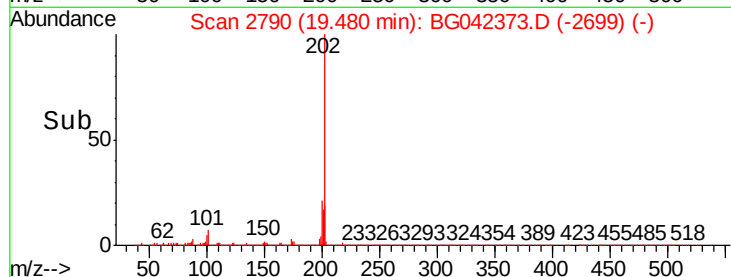
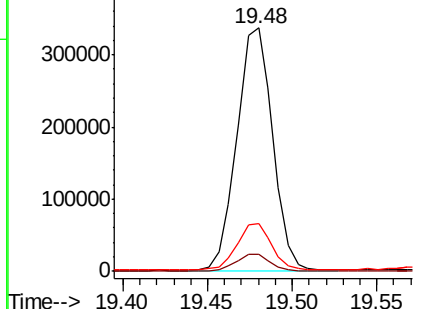
Tot Ion:	202	Resp:	494839
Ion Ratio	Lower	Upper	
202	100		
101	6.9	0.0	28.0
203	19.4	0.0	39.1



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



#76

Chrysene-d12

Concen: 20.000 ng

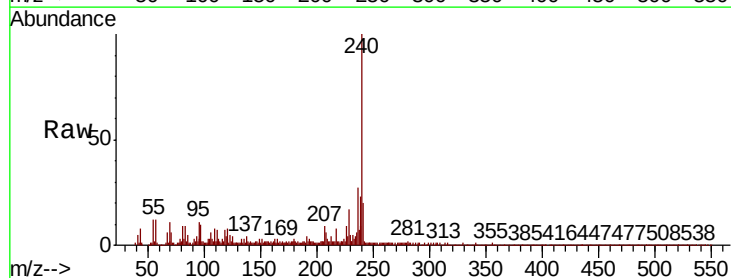
RT: 21.70 min Scan# 3168

Delta R.T. 0.01 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

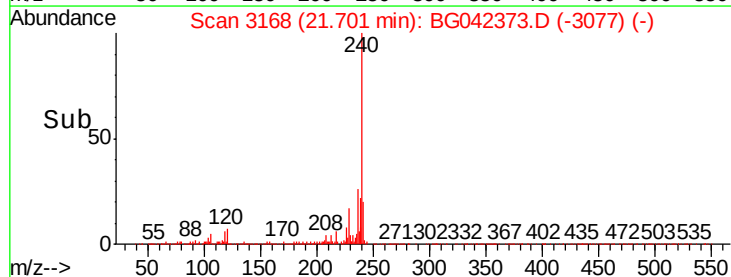
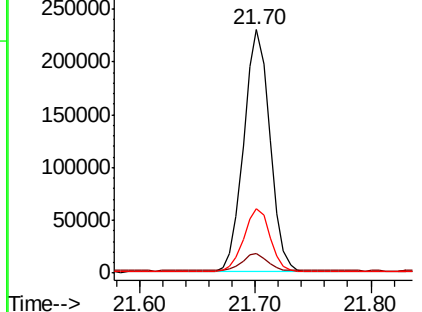
Tgt Ion:	240	Resp:	362652
Ion Ratio	Lower	Upper	
240	100		
120	8.0	6.0	9.0
236	26.6	21.6	32.4

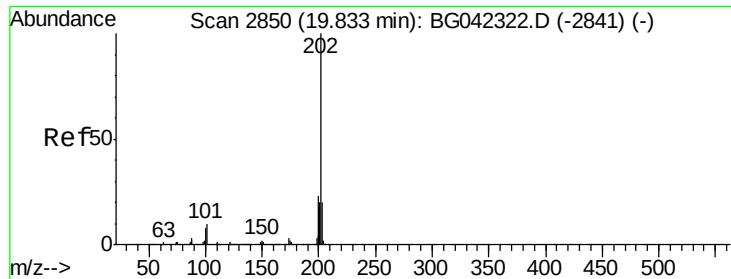


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 19.500 ng

RT: 19.84 min Scan# 2851

Delta R.T. 0.01 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampleId :

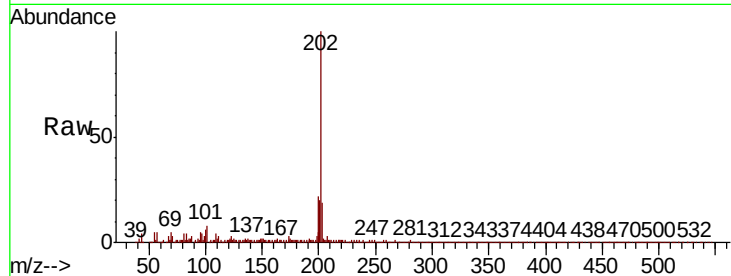
Tot Ion:202 Resp: 435136

Ion Ratio Lower Upper

202 100

200 21.9 18.1 27.1

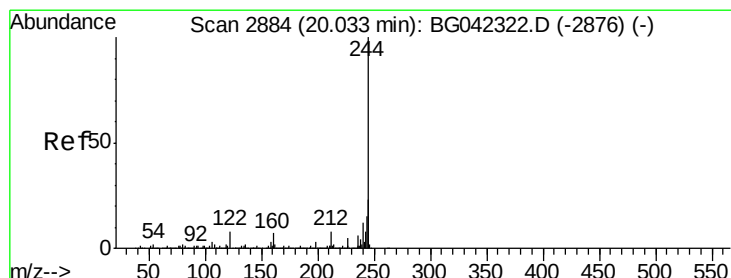
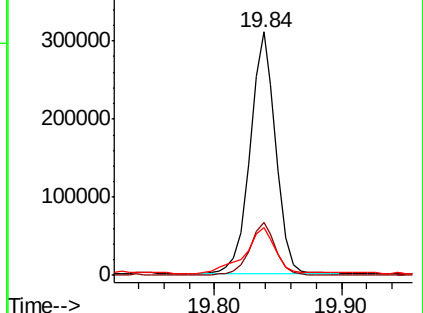
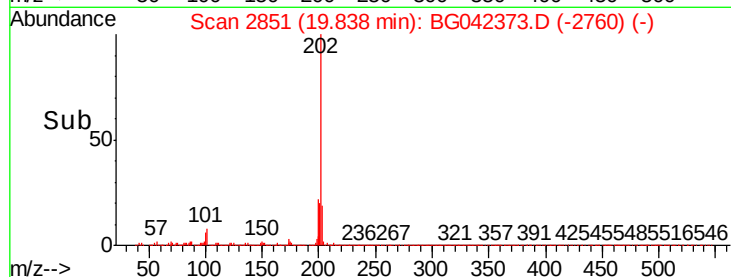
203 19.4 15.8 23.8



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: 47.537 ng

RT: 20.03 min Scan# 2884

Delta R.T. -0.00 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

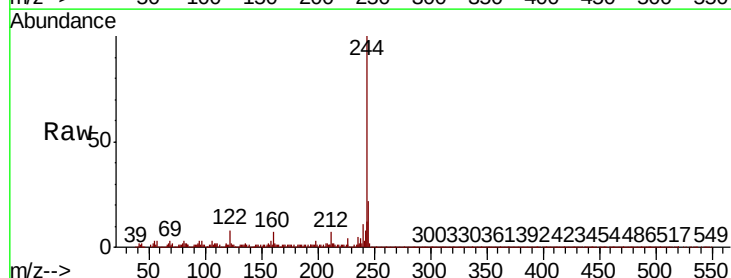
Tgt Ion:244 Resp: 787082

Ion Ratio Lower Upper

244 100

212 7.3 6.4 9.6

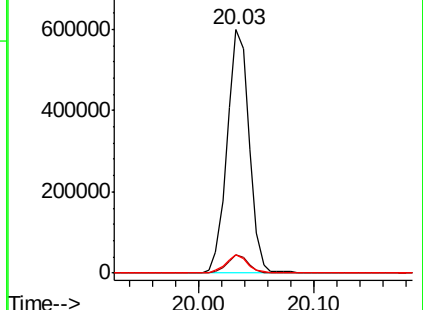
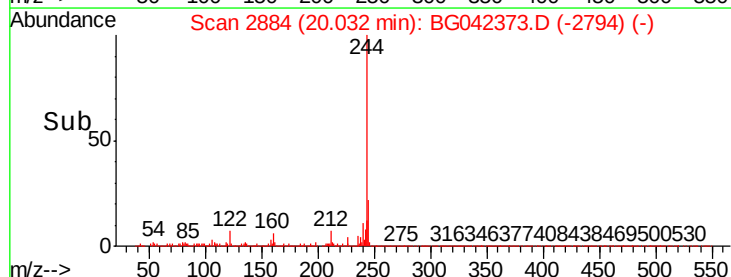
122 7.6 6.6 10.0

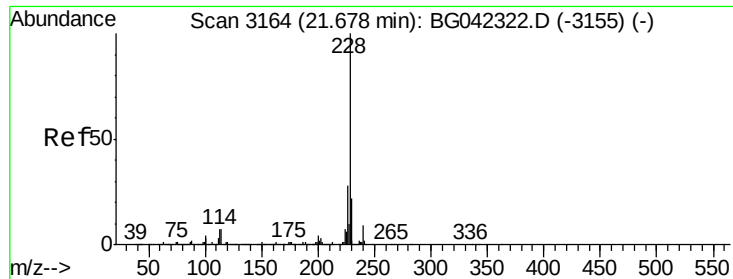


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 12.360 ng

RT: 21.68 min Scan# 3165

Delta R.T. 0.01 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampleId :

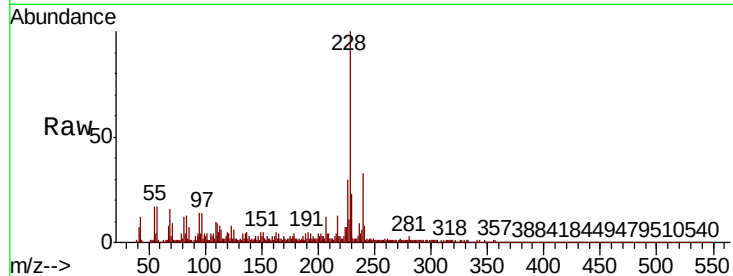
Tot Ion:228 Resp: 275257

Ion Ratio Lower Upper

228 100

226 30.0 22.7 34.1

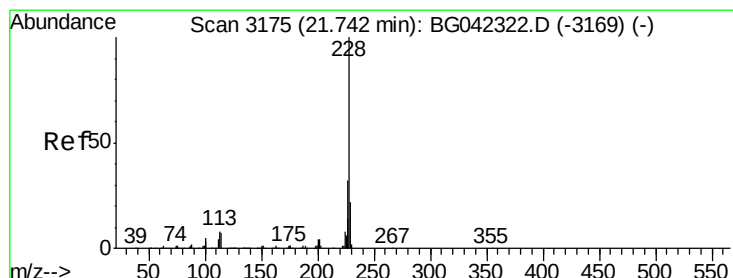
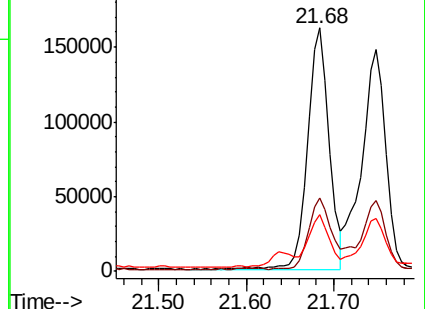
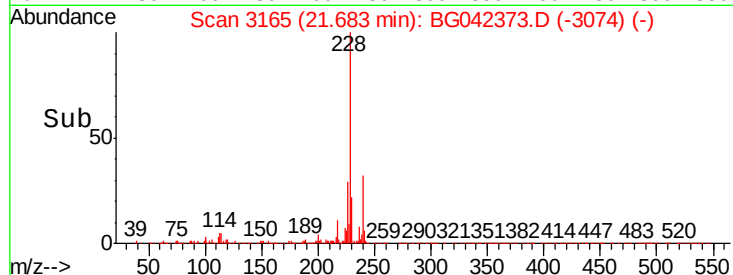
229 23.4 17.4 26.2



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: 13.321 ng

RT: 21.75 min Scan# 3176

Delta R.T. 0.01 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

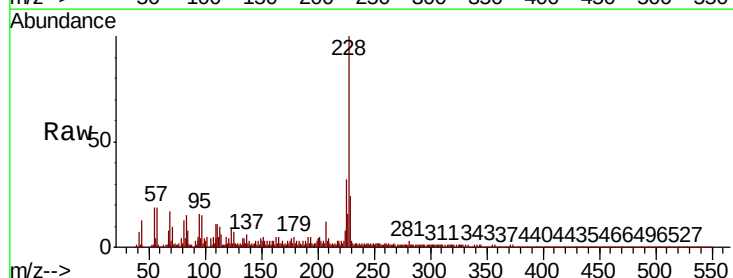
Tgt Ion:228 Resp: 283791

Ion Ratio Lower Upper

228 100

226 32.0 25.6 38.4

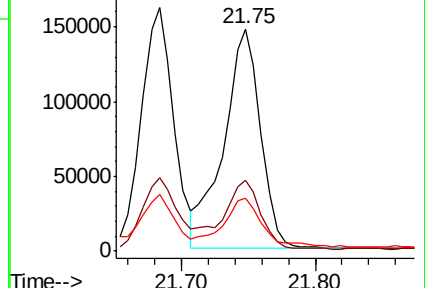
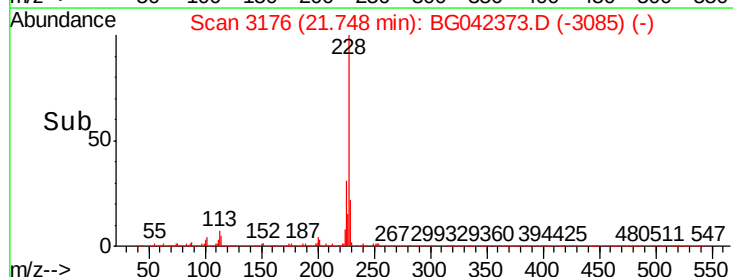
229 23.9 17.8 26.6

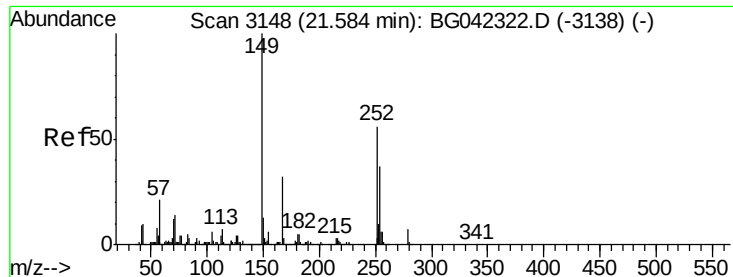


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.124 ng

RT: 21.58 min Scan# 3148

Delta R.T. -0.00 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampled :

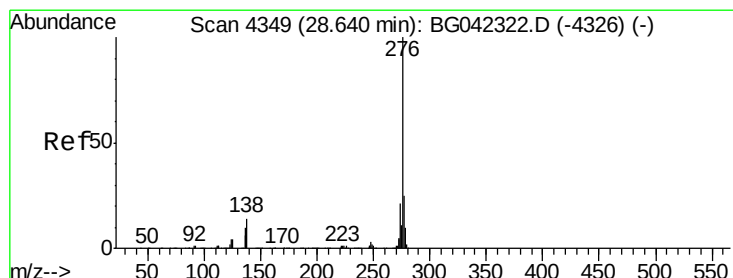
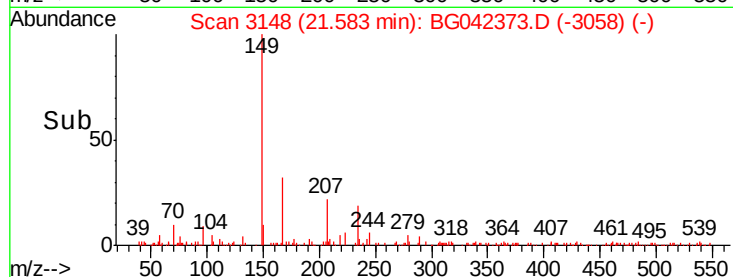
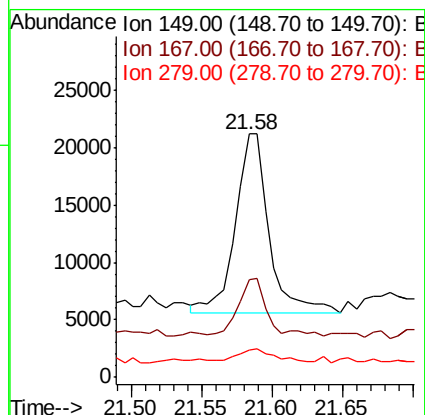
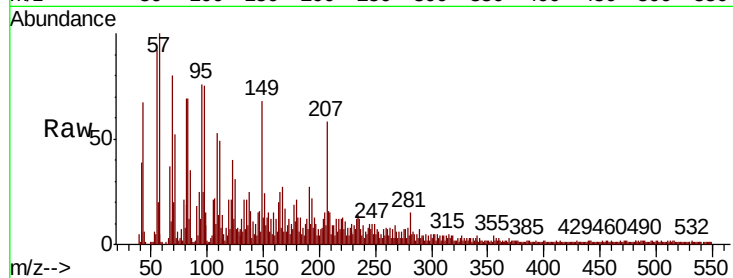
Tot Ion:149 Resp: 26192

Ion Ratio Lower Upper

149 100

167 39.9 25.4 38.0#

279 11.3 5.8 8.6#



#86

Indeno(1,2,3-cd)pyrene

Concen: 7.449 ng

RT: 28.66 min Scan# 4353

Delta R.T. 0.02 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

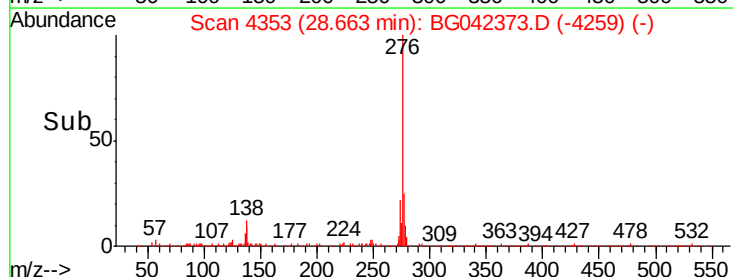
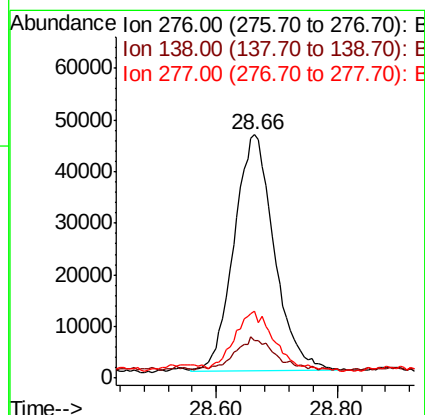
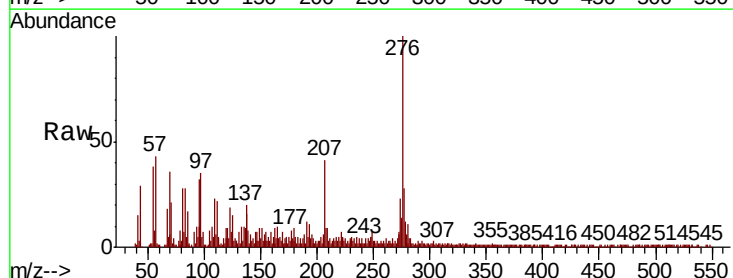
Tgt Ion:276 Resp: 211880

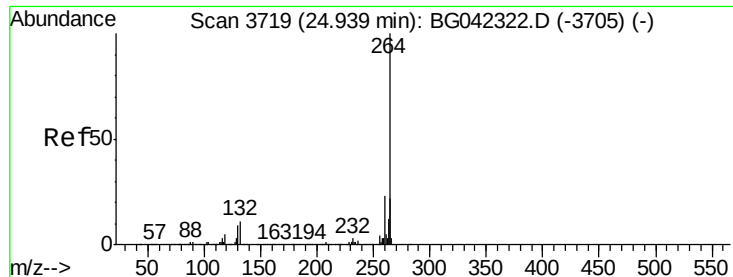
Ion Ratio Lower Upper

276 100

138 13.6 14.5 21.7#

277 25.5 21.0 31.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 24.96 min Scan# 3722

Delta R.T. 0.02 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampleId :

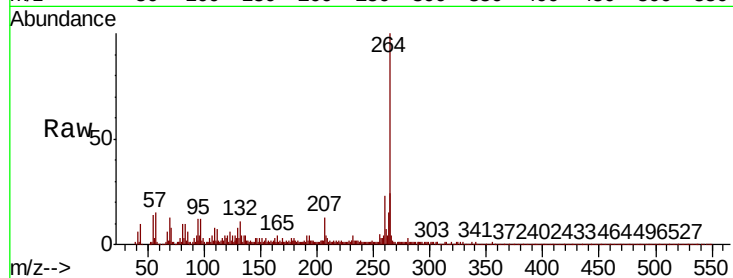
Tot Ion:264 Resp: 437789

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.4	27.6
265	23.6	17.4	26.0

264 100

260 22.8 18.4 27.6

265 23.6 17.4 26.0

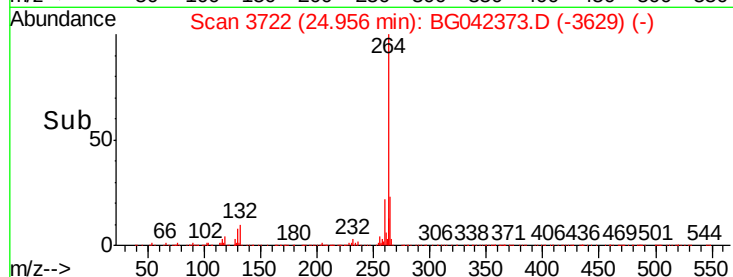


Abundance Ion 264.00 (263.70 to 264.70): E

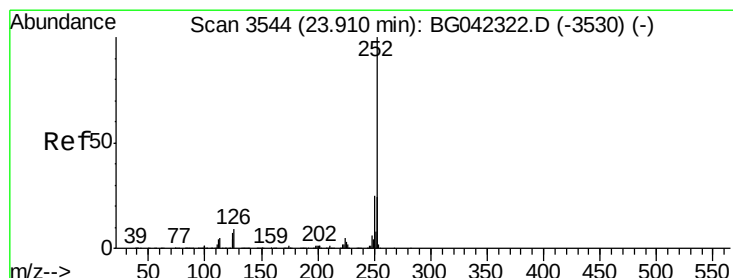
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

24.96



Time--> 24.80 24.90 25.00 25.10



#88

Benzo(b)fluoranthene

Concen: 17.311 ng

RT: 23.93 min Scan# 3547

Delta R.T. 0.02 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

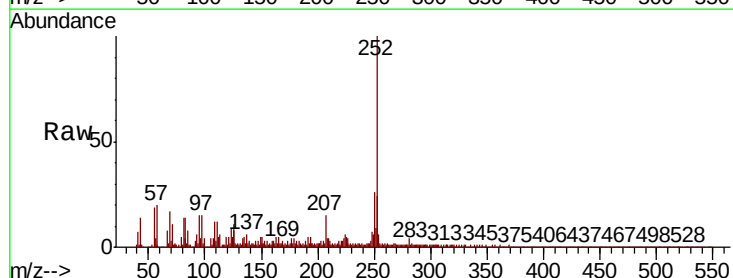
Tgt Ion:252 Resp: 416565

Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.9	28.3
125	11.5	5.8	8.6#

252 100

253 24.4 18.9 28.3

125 11.5 5.8 8.6#

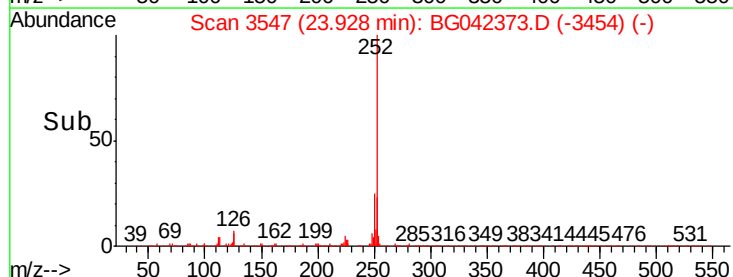


Abundance Ion 252.00 (251.70 to 252.70): E

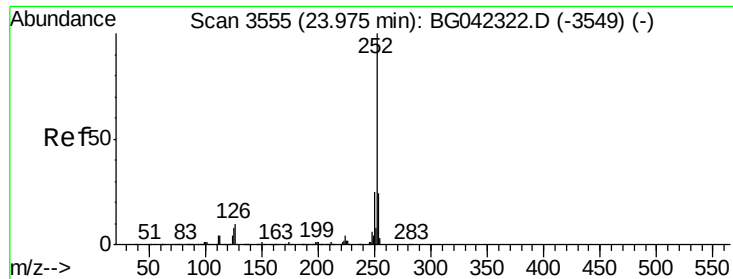
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

23.93



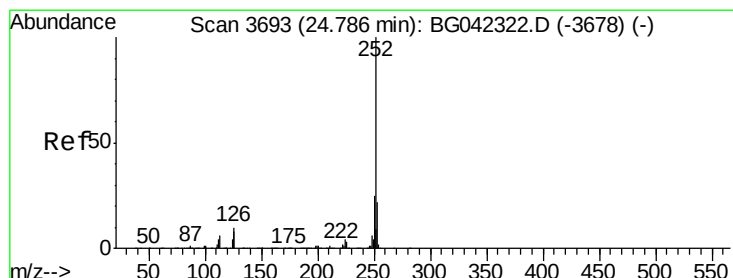
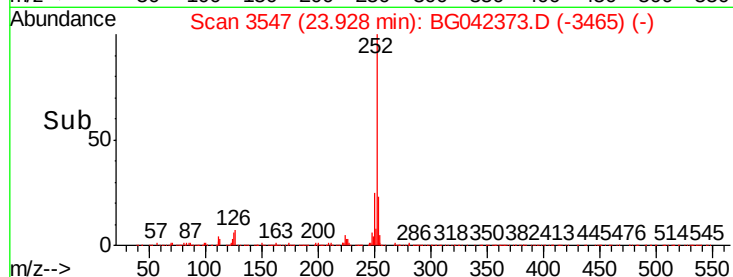
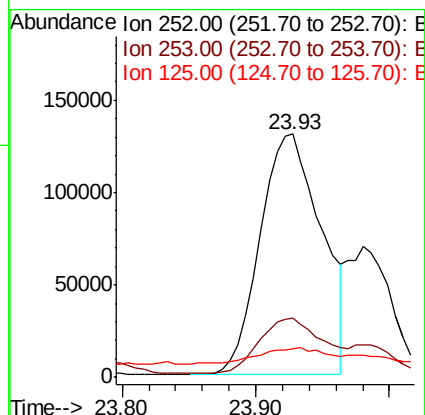
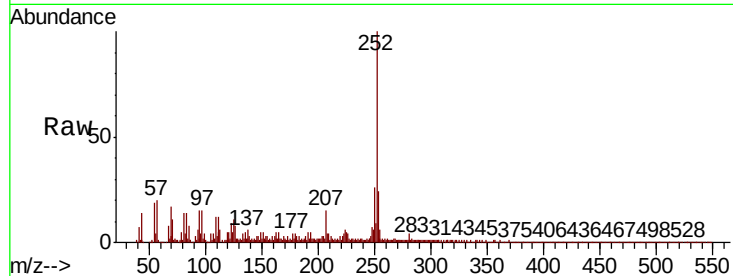
Time--> 23.80 23.90



#89
Benzo(k)fluoranthene
Concen: 17.710 ng
RT: 23.93 min Scan# 3547
Delta R.T. -0.05 min
Lab File: BG042373.D
Acq: 21 Aug 2019 1:04

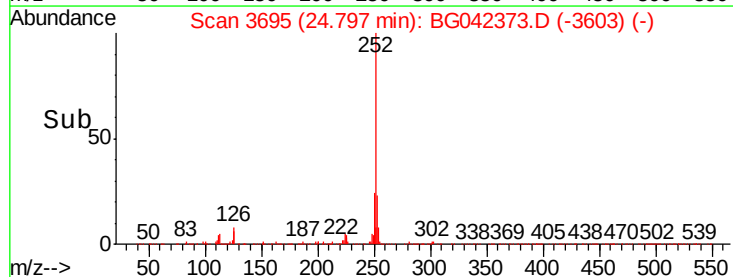
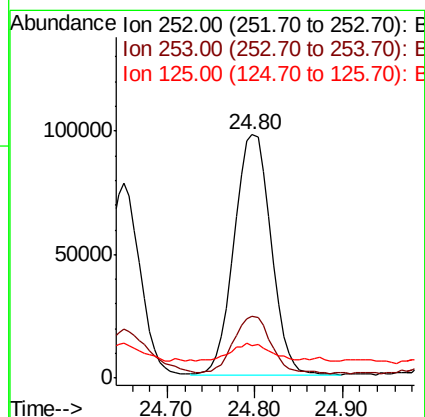
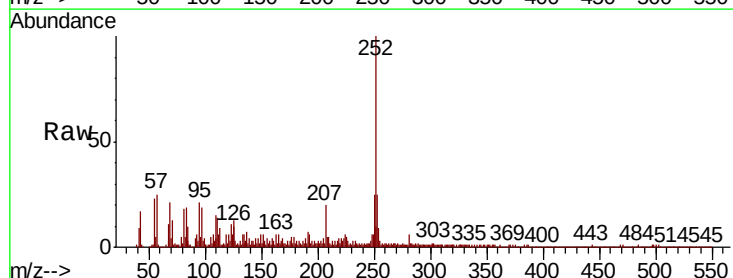
Instrument :
BNA_G
ClientSampleId :

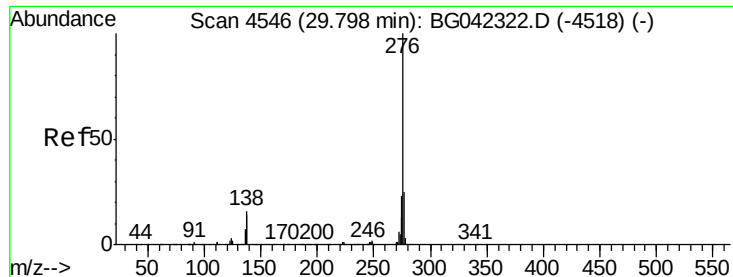
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.0	28.4
125	11.5	6.0	9.0



#90
Benzo(a)pyrene
Concen: 12.084 ng
RT: 24.80 min Scan# 3695
Delta R.T. 0.01 min
Lab File: BG042373.D
Acq: 21 Aug 2019 1:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.9	26.9
125	13.4	6.7	10.1





#92

Benzo(a,h,i)perylene

Concen: 8.909 ng

RT: 29.81 min Scan# 4549

Delta R.T. 0.02 min

Lab File: BG042373.D

Acq: 21 Aug 2019 1:04

Instrument :

BNA_G

ClientSampleId :

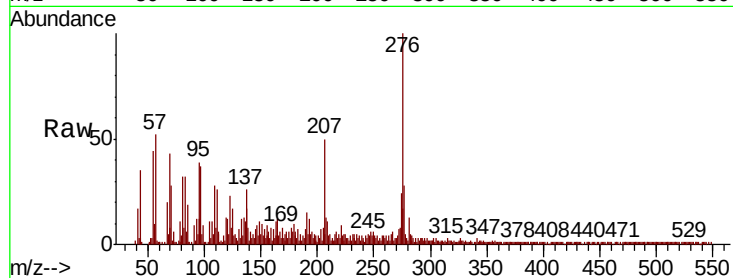
Tot Ion: 276 Resp: 204218

Ion Ratio Lower Upper

276 100

277 28.5 19.8 29.8

138 16.7 12.8 19.2



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

