

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082019\
 Data File : BG042374.D
 Acq On : 21 Aug 2019 1:43
 Operator : HP/JU
 Sample : K4404-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 21 04:32:51 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	68618	20.00	ng	0.00
21) Naphthalene-d8	10.83	136	268545	20.00	ng	0.00
39) Acenaphthene-d10	14.67	164	183397	20.00	ng	0.00
64) Phenanthrene-d10	17.42	188	356206	20.00	ng	0.00
76) Chrysene-d12	21.70	240	359477	20.00	ng	0.00
87) Perylene-d12	24.95	264	434229	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.57	112	358003	105.71	ng	0.01
7) Phenol-d6	7.18	99	485781	105.61	ng	0.02
23) Nitrobenzene-d5	9.18	82	274448	71.88	ng	0.00
42) 2,4,6-Tribromophenol	16.17	330	257597	103.13	ng	0.01
45) 2-Fluorobiphenyl	13.29	172	724661	66.86	ng	0.00
79) Terphenyl-d14	20.03	244	959102	58.44	ng	0.00

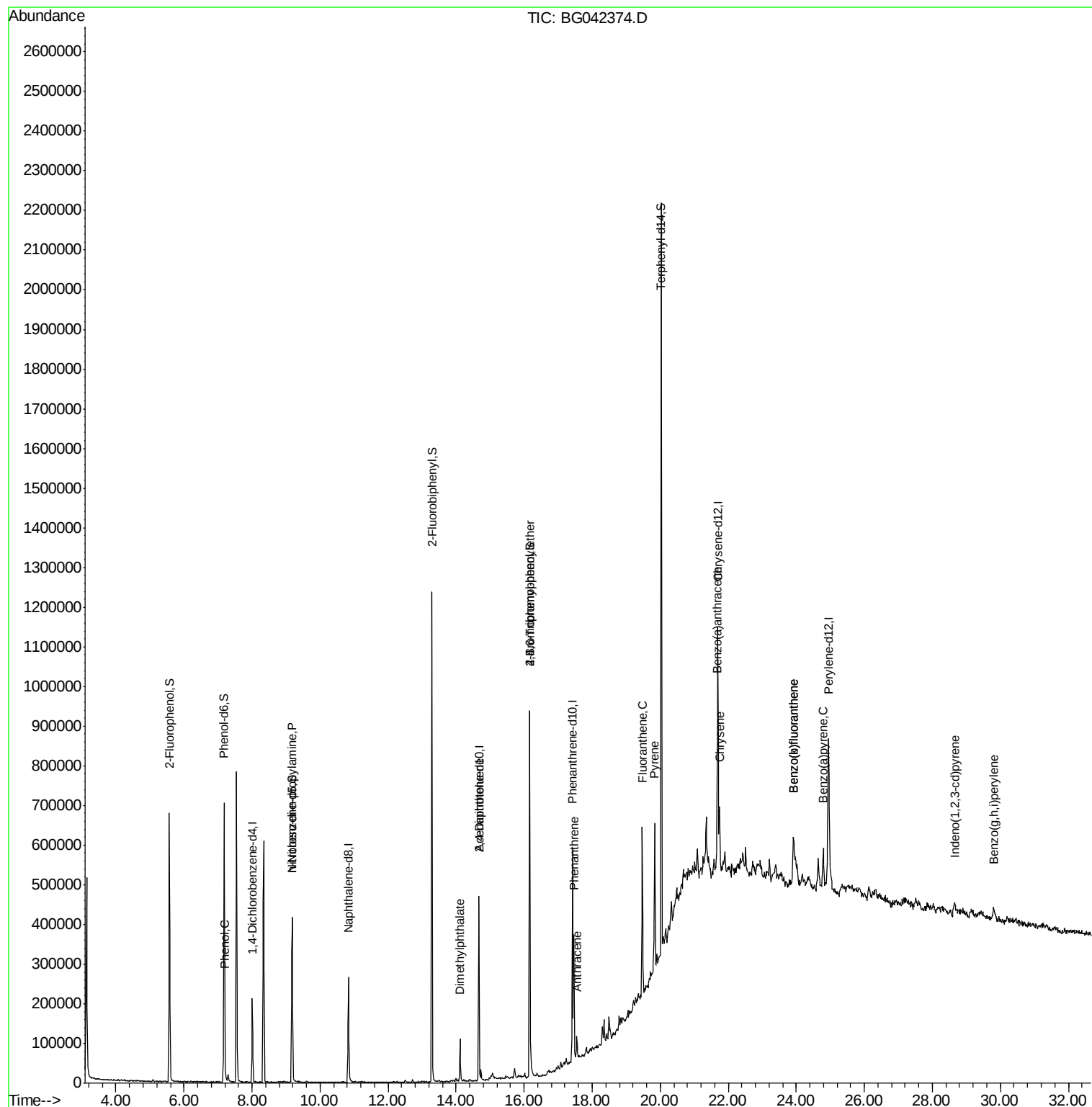
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	7.21	94	12287	2.628	ng	78
19) n-Nitroso-di-n-propylamine	9.18	70	36340	12.283	ng	# 74
50) Dimethylphthalate	14.12	163	90098	6.914	ng	97
57) 2,4-Dinitrotoluene	14.67	165	24042	5.638	ng	# 38
67) 4-Bromophenyl-phenylether	16.16	248	17714	3.908	ng	# 1
71) Phenanthrene	17.46	178	213561	12.038	ng	99
72) Anthracene	17.55	178	38969	2.202	ng	97
75) Fluoranthene	19.47	202	281672	13.167	ng	96
78) Pyrene	19.84	202	259610	11.737	ng	97
81) Benzo(a)anthracene	21.68	228	131770	5.969	ng	99
83) Chrysene	21.74	228	121539	5.755	ng	96
86) Indeno(1,2,3-cd)pyrene	28.66	276	65093	2.309	ng	# 90
88) Benzo(b)fluoranthene	23.92	252	146303	6.130	ng	# 95
89) Benzo(k)fluoranthene	23.92	252	146303	6.271	ng	# 96
90) Benzo(a)pyrene	24.79	252	110755	4.843	ng	# 89
92) Benzo(g,h,i)perylene	29.81	276	62611	2.754	ng	95

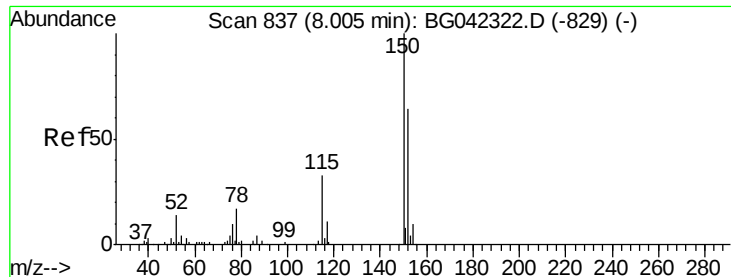
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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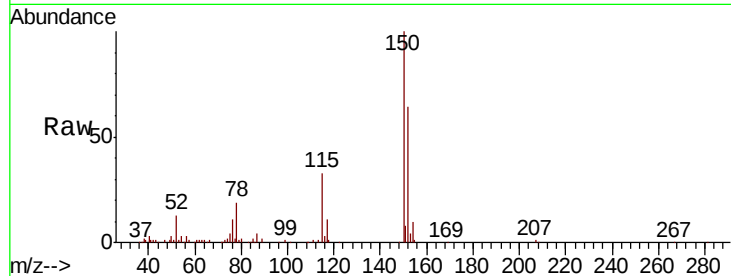


#1

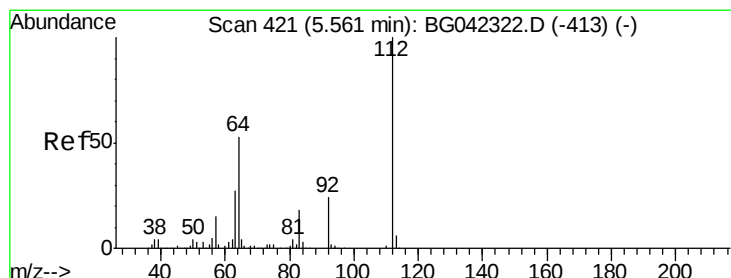
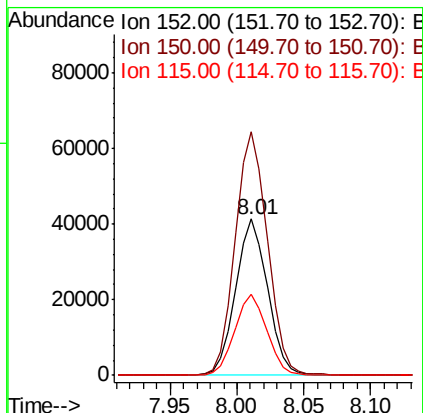
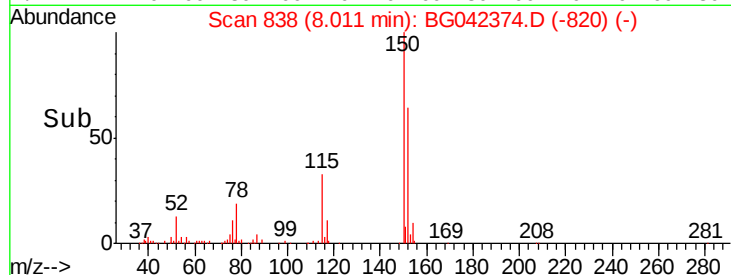
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.01 min Scan# 838
Delta R.T. 0.01 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.3	186.5
115	51.6	40.5	60.7



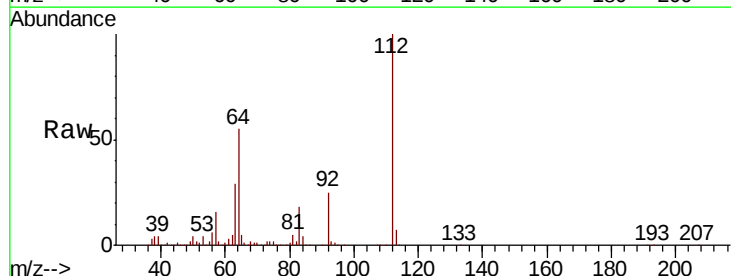
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



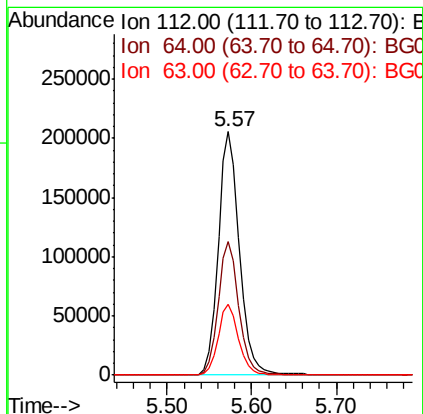
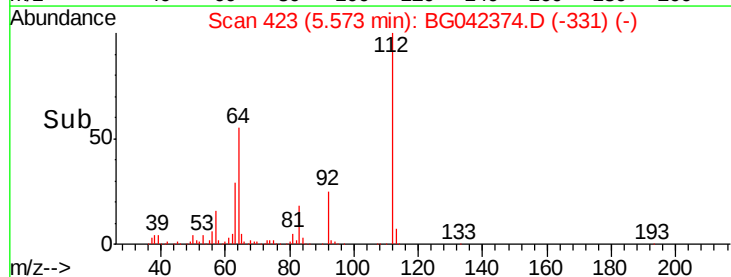
#5

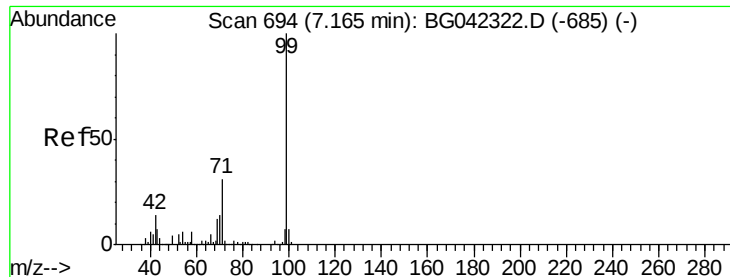
2-Fluorophenol
Concen: 105.708 ng
RT: 5.57 min Scan# 423
Delta R.T. 0.01 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	42.5	63.7
63	28.9	21.7	32.5



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: 105.615 ng

RT: 7.18 min Scan# 697

Delta R.T. 0.02 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

Instrument :

BNA_G

ClientSampleId :

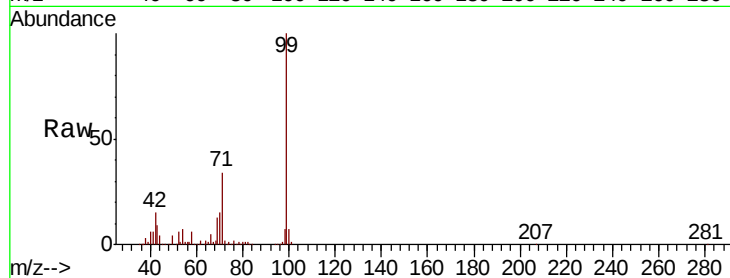
Tot Ion: 99 Resp: 485781

Ion Ratio Lower Upper

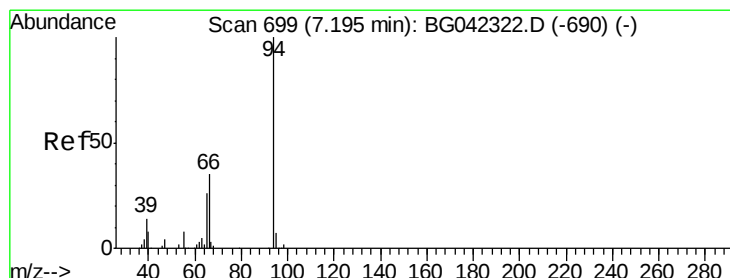
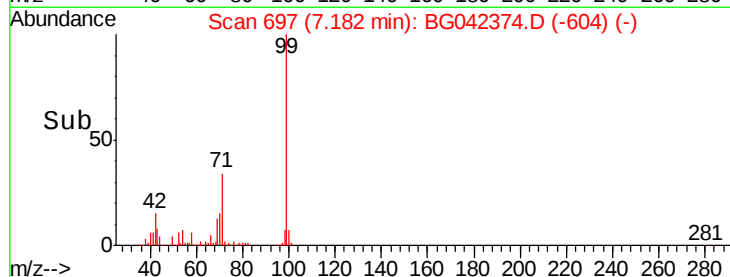
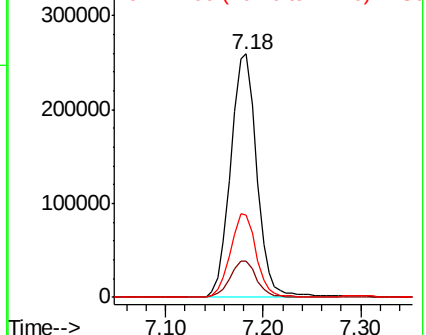
99 100

42 15.0 11.4 17.0

71 33.7 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



#10

Phenol

Concen: 2.628 ng

RT: 7.21 min Scan# 701

Delta R.T. 0.01 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

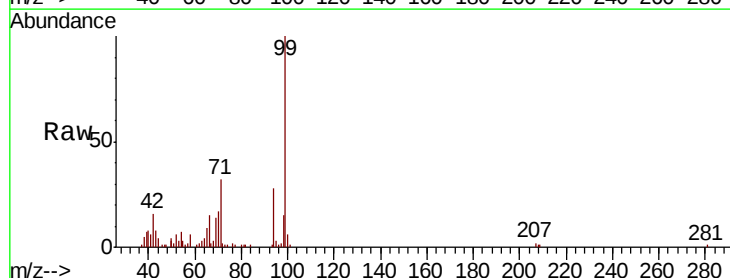
Tgt Ion: 94 Resp: 12287

Ion Ratio Lower Upper

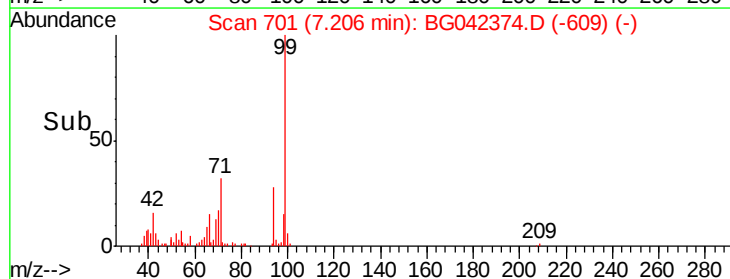
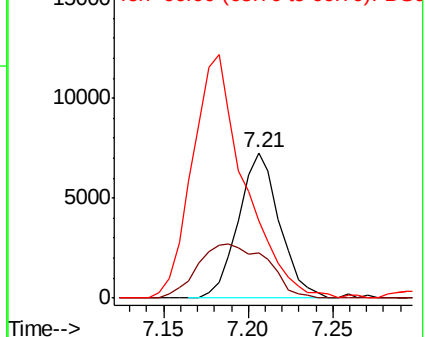
94 100

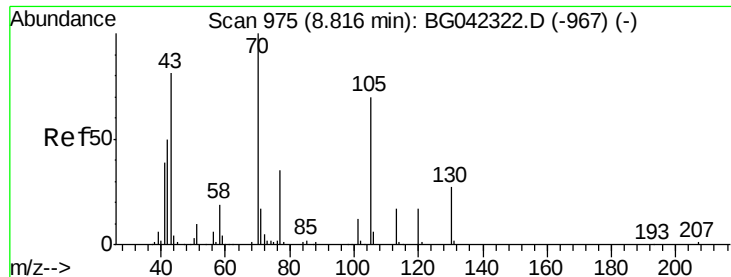
65 31.4 6.1 46.1

66 53.5 15.7 55.7



Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC

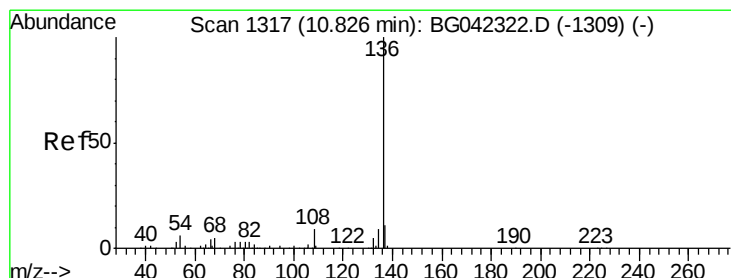
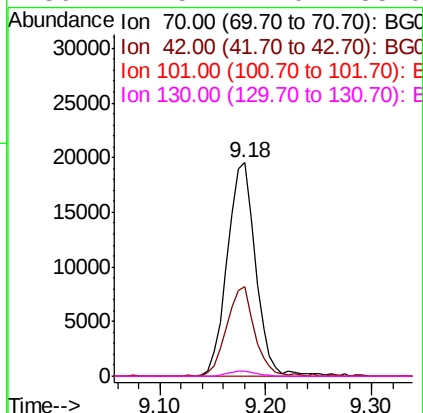
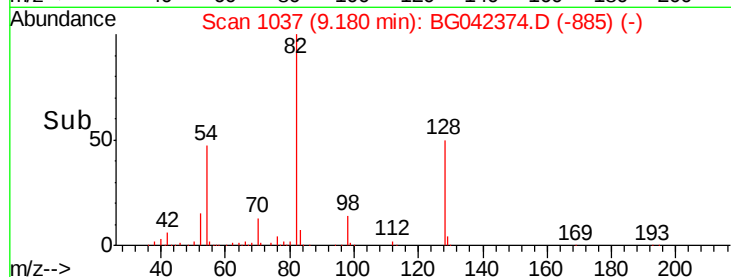
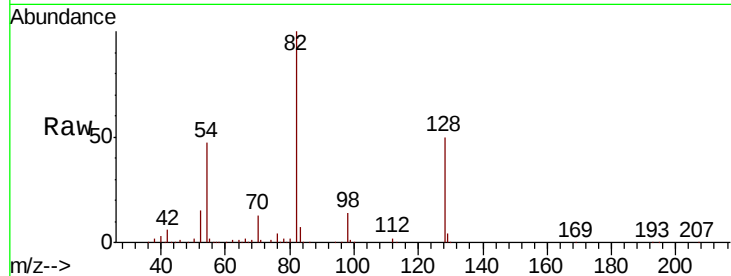




#19
n-Nitroso-di-n-propylamine
Concen: 12.283 ng
RT: 9.18 min Scan# 1037
Delta R.T. 0.36 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

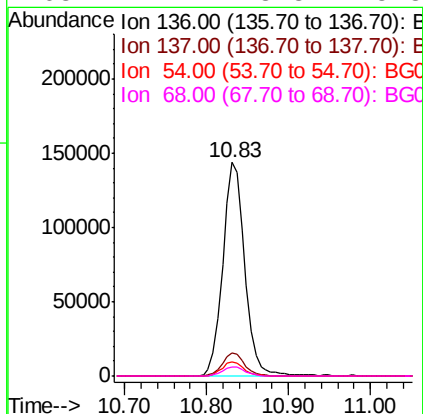
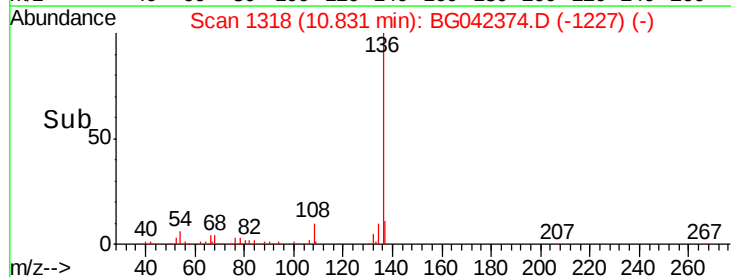
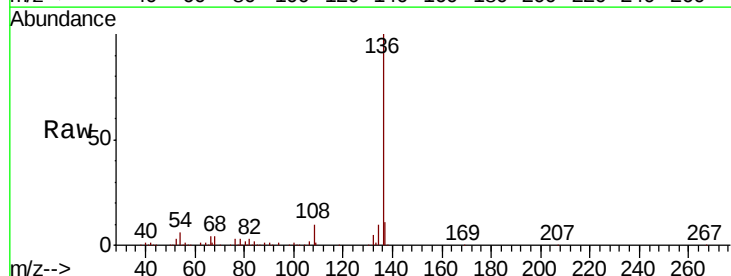
Instrument :
BNA_G
ClientSampleId :

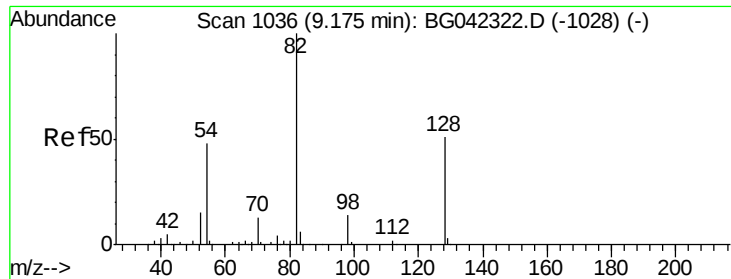
Tot Ion: 70 Resp: 36340
Ion Ratio Lower Upper
70 100
42 42.0 40.5 60.7
101 0.0 9.3 13.9#
130 2.5 22.0 33.0#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.83 min Scan# 1318
Delta R.T. 0.01 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Tgt Ion: 136 Resp: 268545
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 6.4 5.0 7.4
68 4.1 3.8 5.8

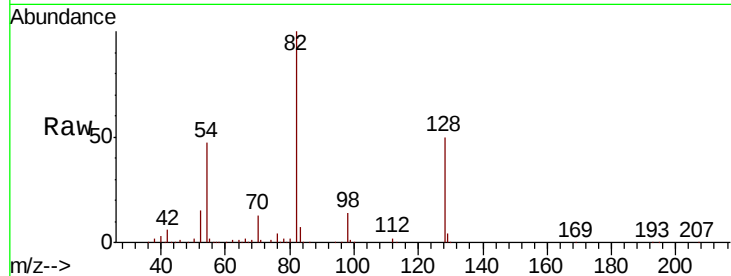




#23
Nitrobenzene-d5
Concen: 71.879 ng
RT: 9.18 min Scan# 1037
Delta R.T. 0.01 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion	82	Resp	274448
Ion Ratio	100		
Lower	41.0		
Upper	61.4		
128	50.0		
54	46.8		
	38.0		
	57.0		

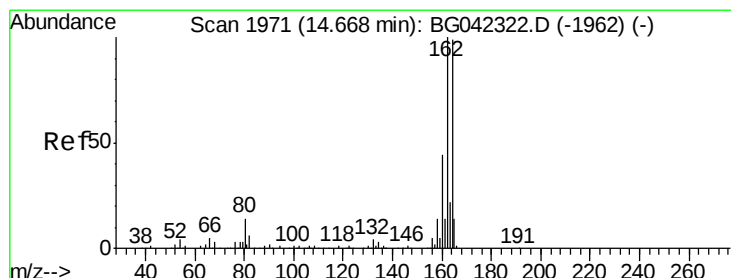
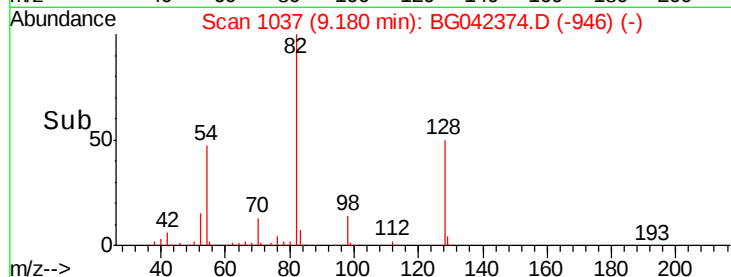
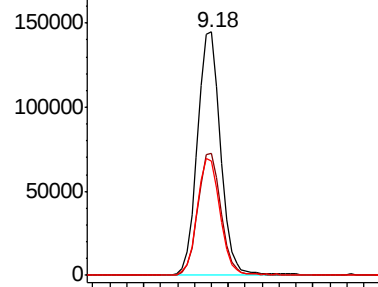


Abundance

Ion 82.00 (81.70 to 82.70): BGC

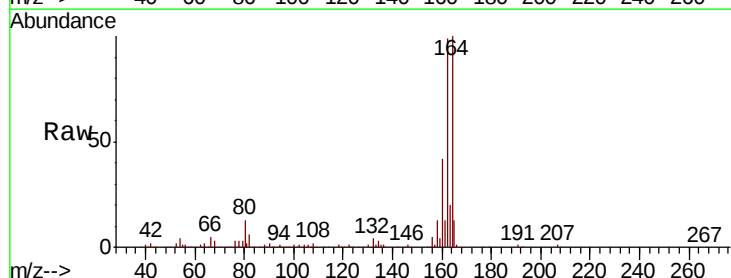
Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.67 min Scan# 1971
Delta R.T. -0.00 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Tgt Ion	164	Resp	183397
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	80.6		
Upper	120.8		
162	98.5		
160	42.3		
	35.7		
	53.5		

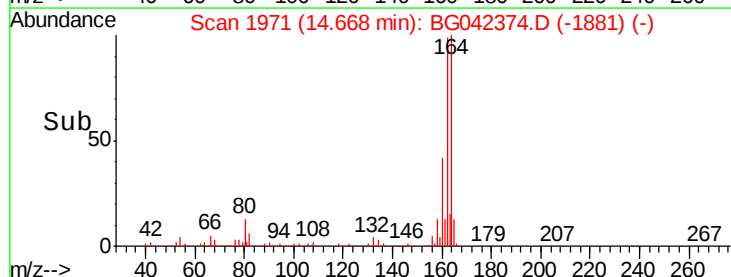
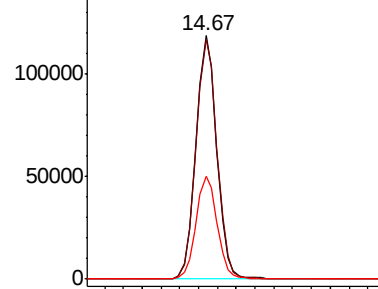


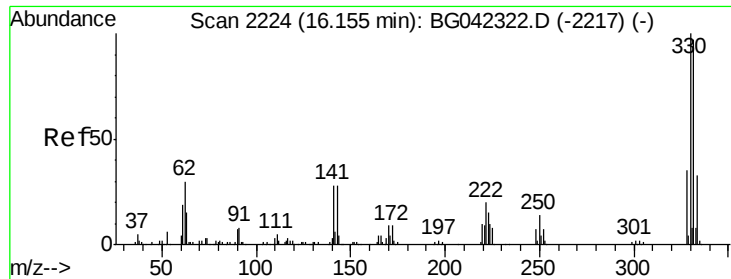
Abundance

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

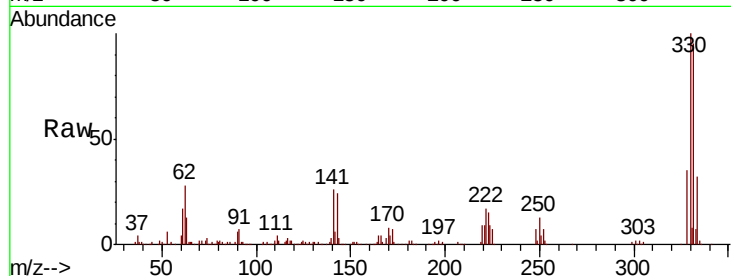




#42
 2,4,6-Tribromophenol
 Concen: 103.128 ng
 RT: 16.17 min Scan# 2226
 Delta R.T. 0.01 min
 Lab File: BG042374.D
 Acq: 21 Aug 2019 1:43

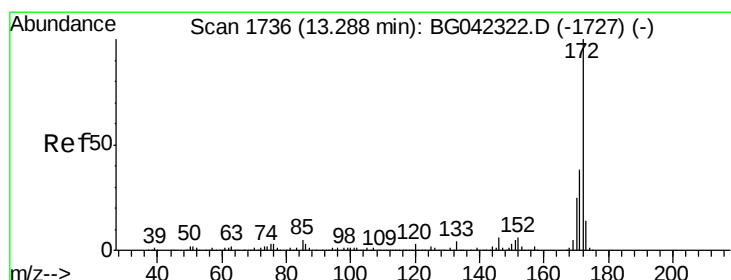
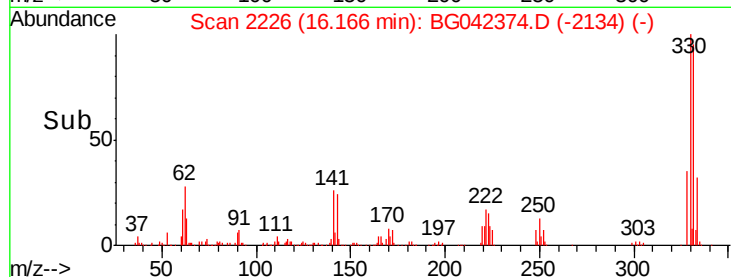
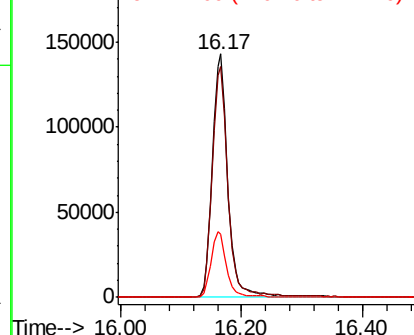
Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.2	76.9	115.3
141	27.0	21.8	32.6



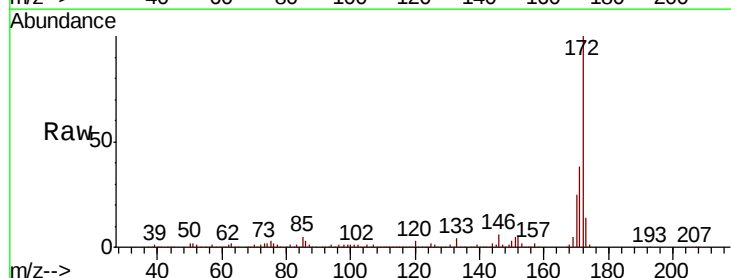
Abundance

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



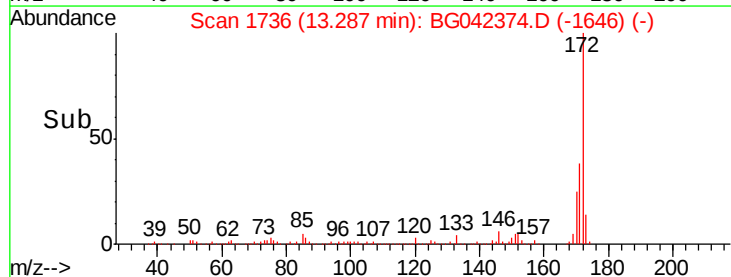
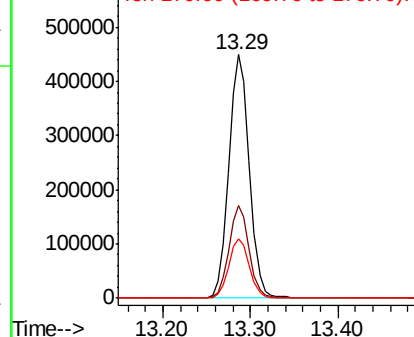
#45
 2-Fluorobiphenyl
 Concen: 66.863 ng
 RT: 13.29 min Scan# 1736
 Delta R.T. -0.00 min
 Lab File: BG042374.D
 Acq: 21 Aug 2019 1:43

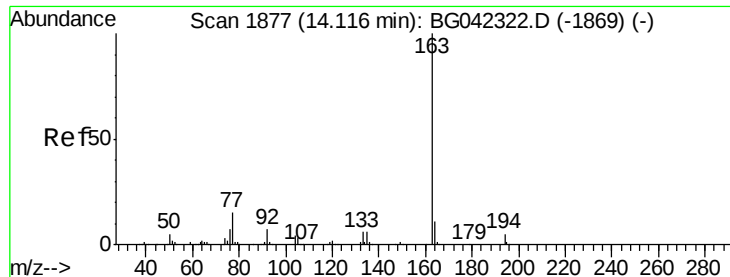
Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.2	30.3	45.5
170	24.5	20.0	30.0



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: 6.914 ng

RT: 14.12 min Scan# 1877

Delta R.T. -0.00 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

Instrument :

BNA_G

ClientSampleId :

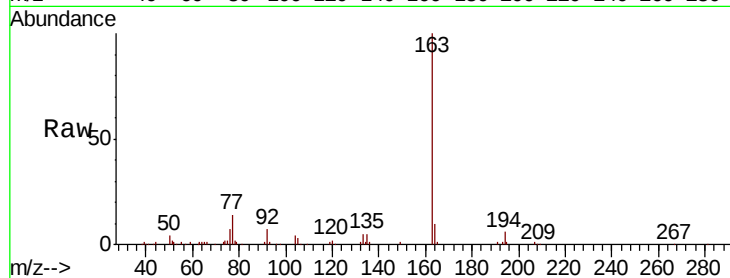
Tot Ion:163 Resp: 90098

Ion Ratio Lower Upper

163 100

194 5.6 4.2 6.2

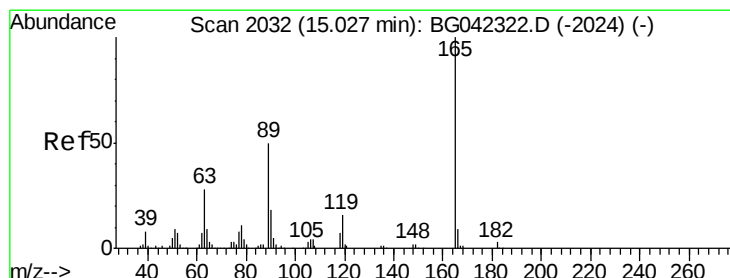
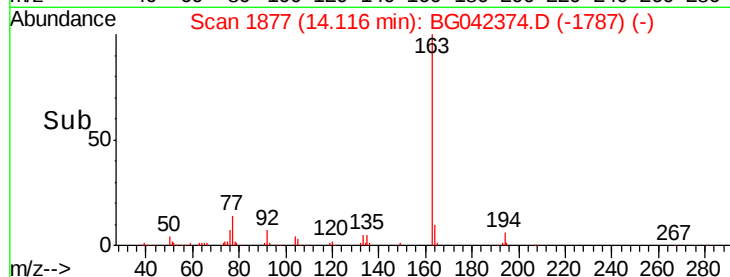
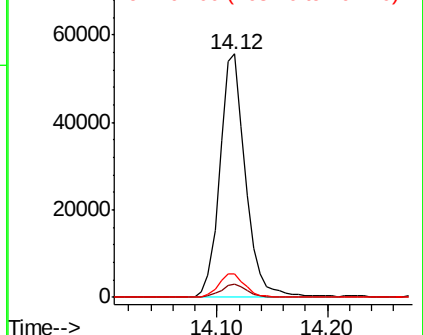
164 9.7 8.8 13.2



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: 5.638 ng

RT: 14.67 min Scan# 1971

Delta R.T. -0.36 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

Tgt Ion:165 Resp: 24042

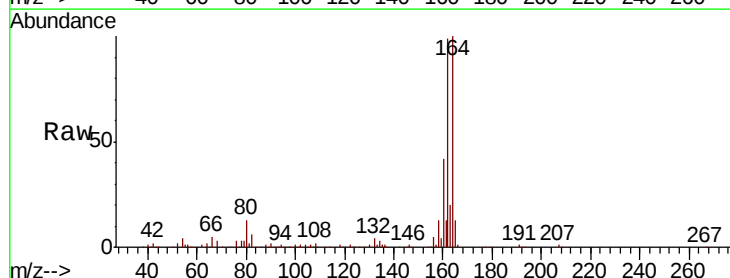
Ion Ratio Lower Upper

165 100

63 0.0 22.4 33.6#

89 1.5 40.2 60.2#

182 0.0 2.6 3.8#

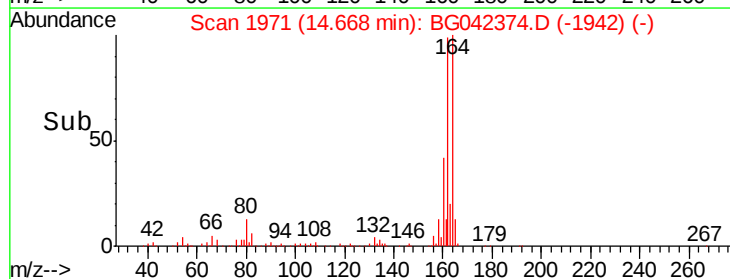
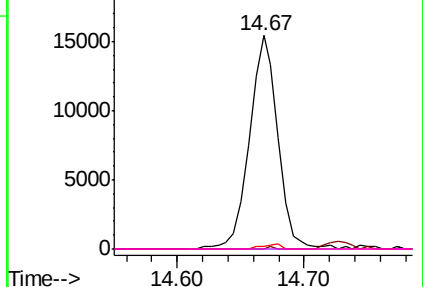


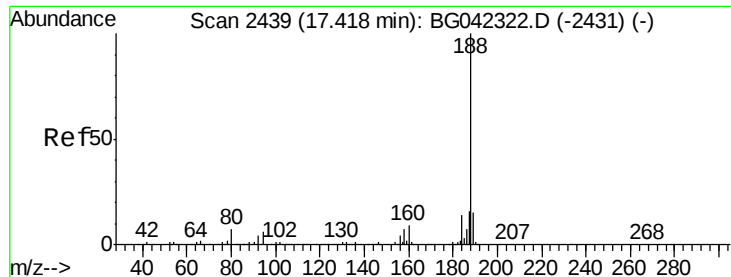
Abundance Ion 165.00 (164.70 to 165.70): E

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: BG042374.D

Acq: 21 Aug 2019 1:43

Instrument :

BNA_G

ClientSampleId :

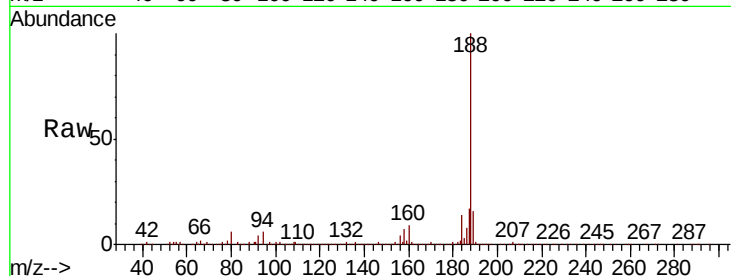
Tot Ion:188 Resp: 356206

Ion Ratio Lower Upper

188 100

94 5.6 4.9 7.3

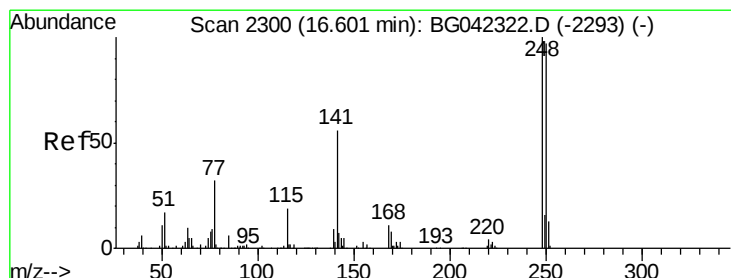
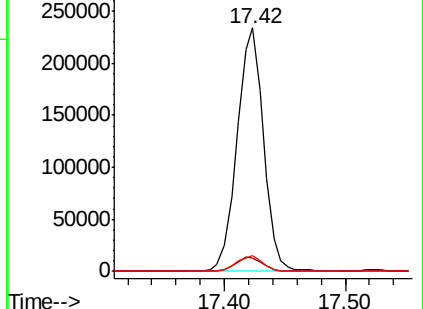
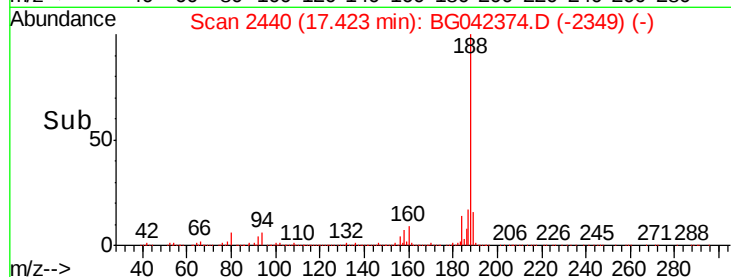
80 6.3 5.4 8.0



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: 3.908 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.44 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

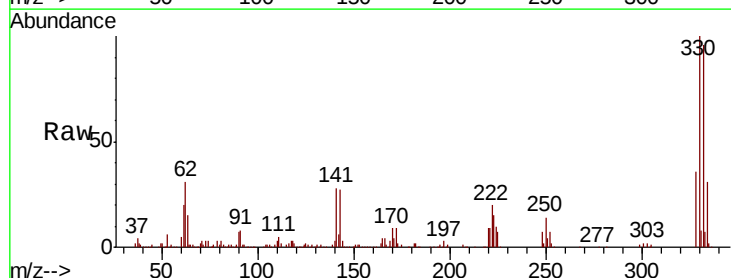
Tgt Ion:248 Resp: 17714

Ion Ratio Lower Upper

248 100

250 196.5 78.0 117.0#

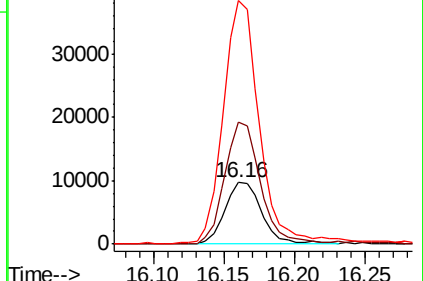
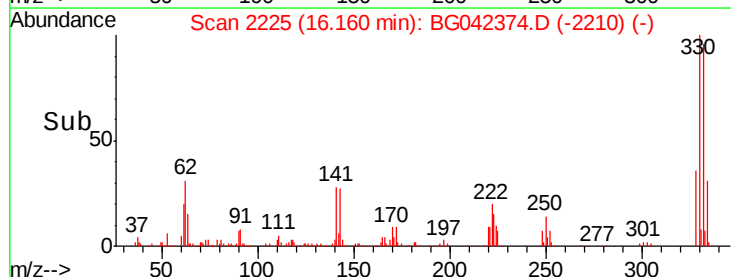
141 394.0 44.9 67.3#

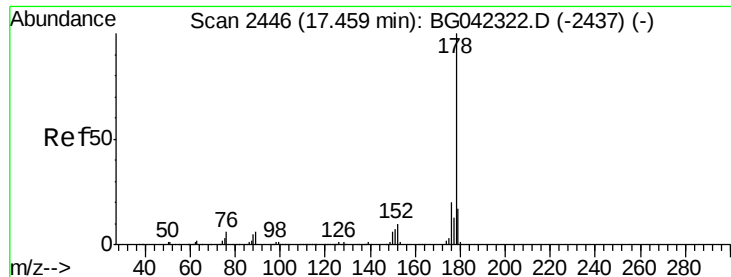


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

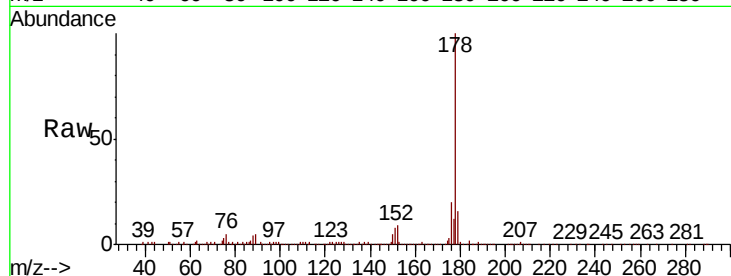




#71
Phenanthrene
Concen: 12.038 ng
RT: 17.46 min Scan# 2447
Delta R.T. 0.01 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.2	24.4
179	16.3	13.7	20.5

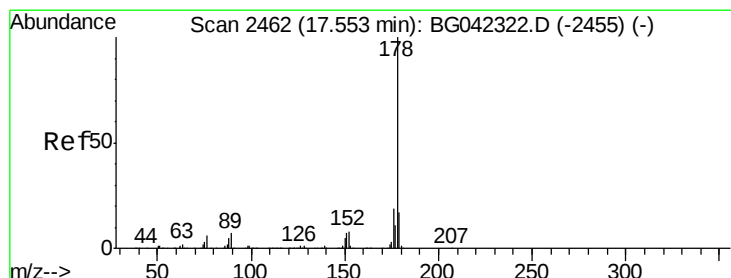
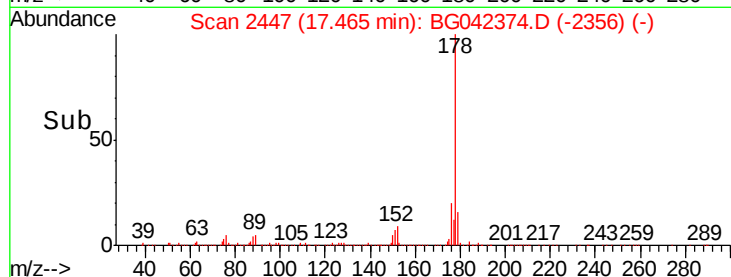
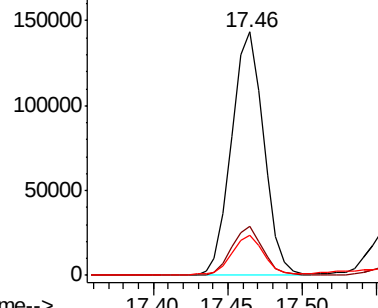


Abundance

Ion 178.00 (177.70 to 178.70): E

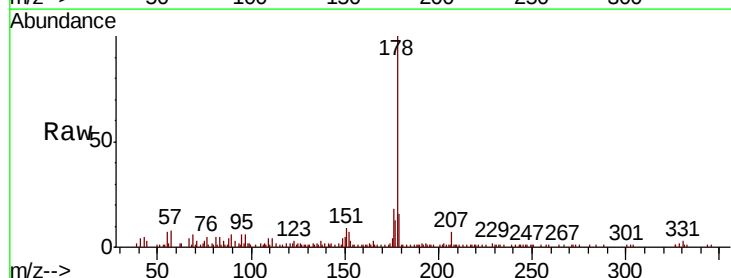
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
Anthracene
Concen: 2.202 ng
RT: 17.55 min Scan# 2462
Delta R.T. -0.00 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.5	23.3
179	16.3	13.6	20.4

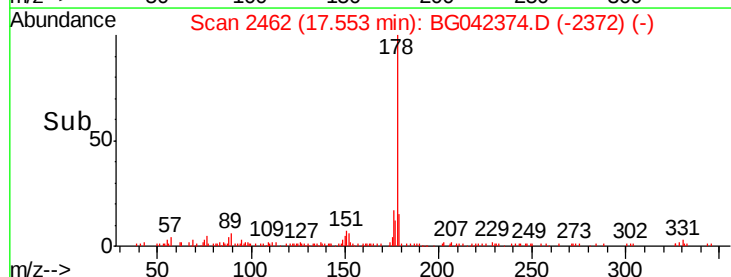
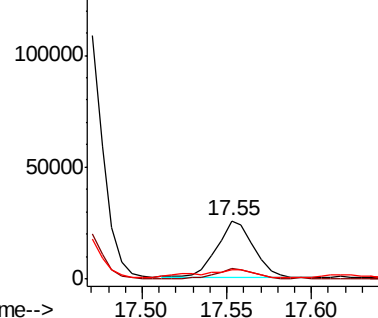


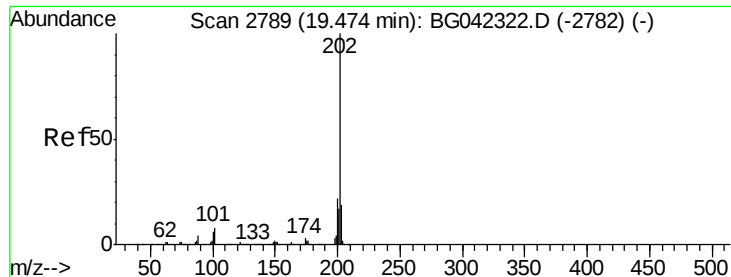
Abundance

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: 13.167 ng

RT: 19.47 min Scan# 2789

Delta R.T. -0.00 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

Instrument :

BNA_G

ClientSampleId :

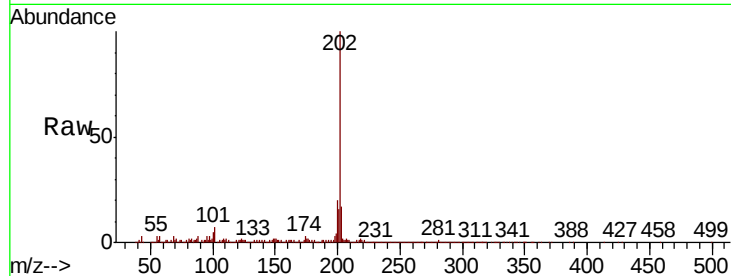
Tot Ion:202 Resp: 281672

Ion Ratio Lower Upper

202 100

101 6.8 0.0 28.0

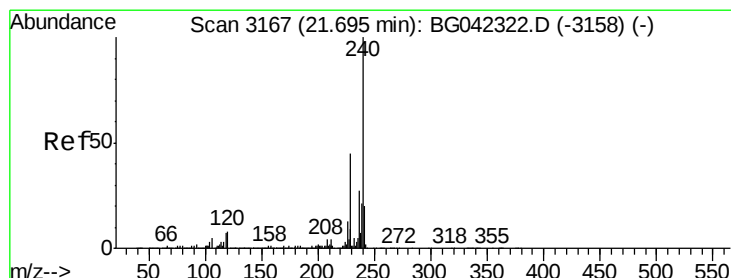
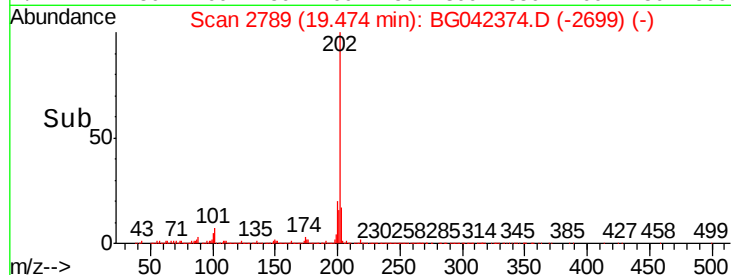
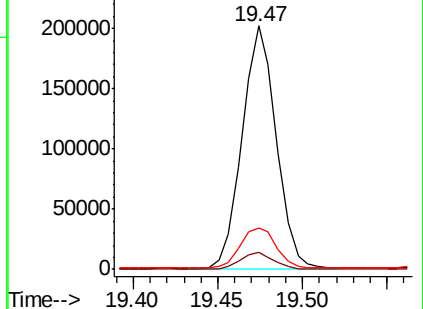
203 17.0 0.0 39.1



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: BG042374.D

Acq: 21 Aug 2019 1:43

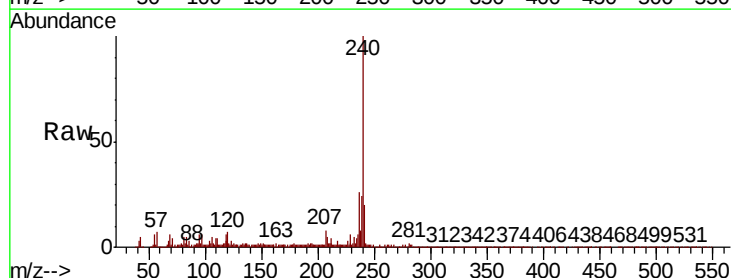
Tgt Ion:240 Resp: 359477

Ion Ratio Lower Upper

240 100

120 7.1 6.0 9.0

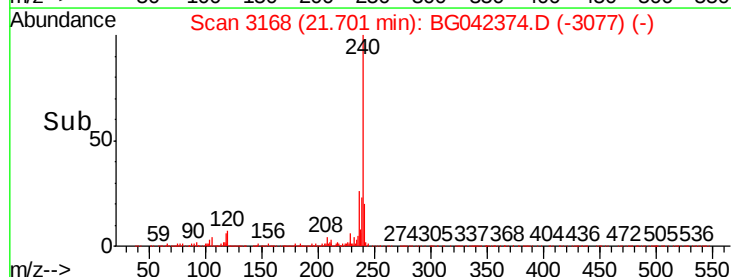
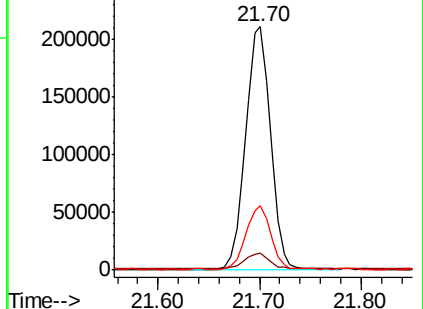
236 26.2 21.6 32.4

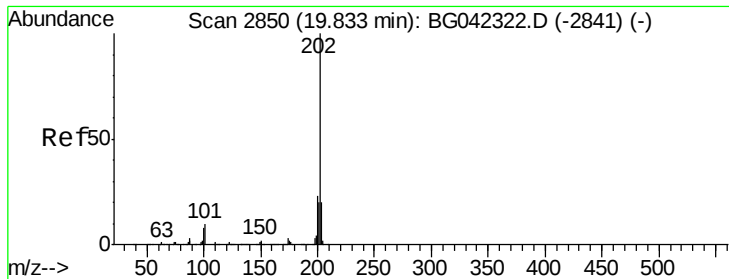


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 11.737 ng

RT: 19.84 min Scan# 2851

Delta R.T. 0.01 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

Instrument :

BNA_G

ClientSampleId :

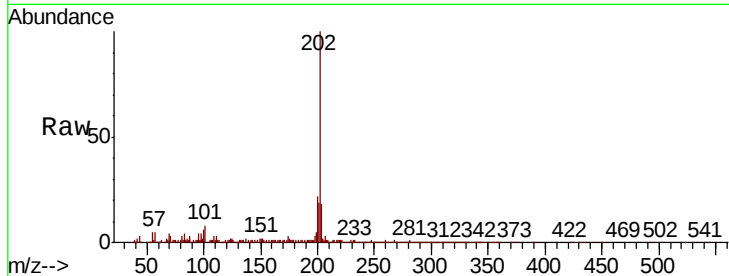
Tot Ion:202 Resp: 259610

Ion Ratio Lower Upper

202 100

200 21.5 18.1 27.1

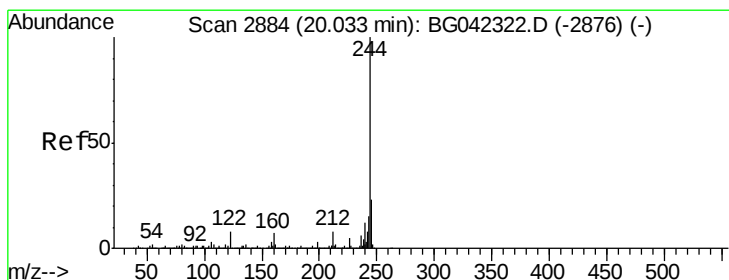
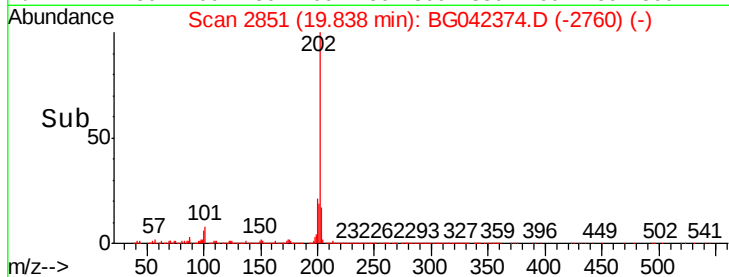
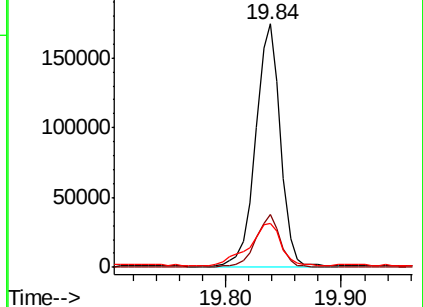
203 18.1 15.8 23.8



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: 58.438 ng

RT: 20.03 min Scan# 2884

Delta R.T. -0.00 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

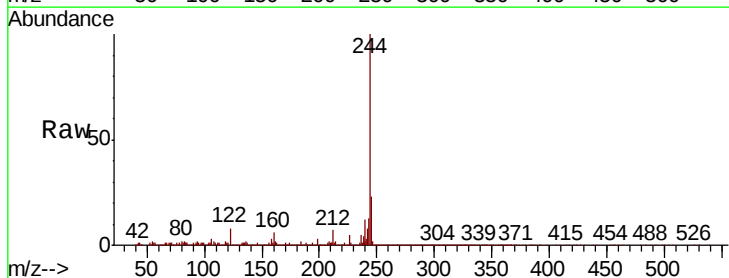
Tgt Ion:244 Resp: 959102

Ion Ratio Lower Upper

244 100

212 7.4 6.4 9.6

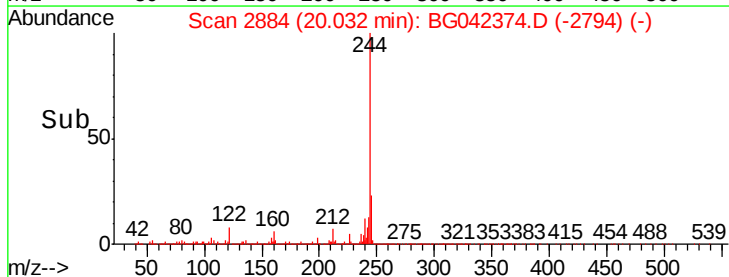
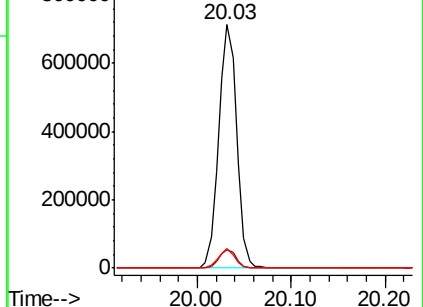
122 7.9 6.6 10.0

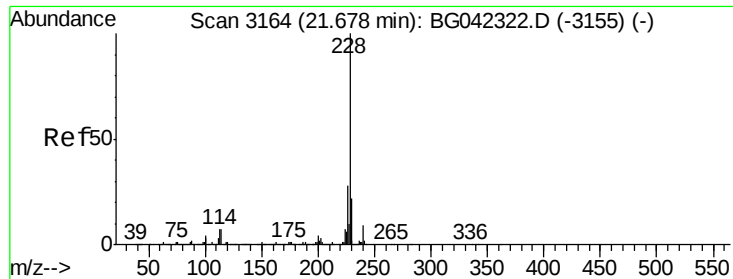


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 5.969 ng

RT: 21.68 min Scan# 3164

Delta R.T. -0.00 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

Instrument :

BNA_G

ClientSampleId :

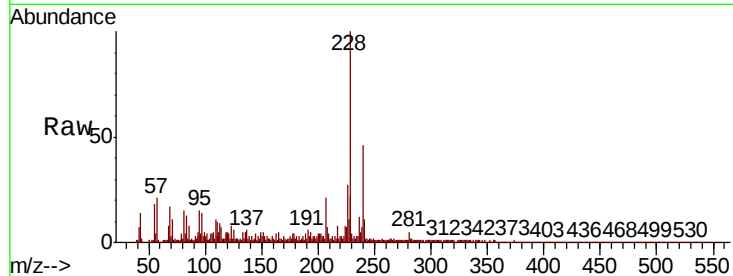
Tot Ion:228 Resp: 131770

Ion Ratio Lower Upper

228 100

226 27.5 22.7 34.1

229 22.2 17.4 26.2

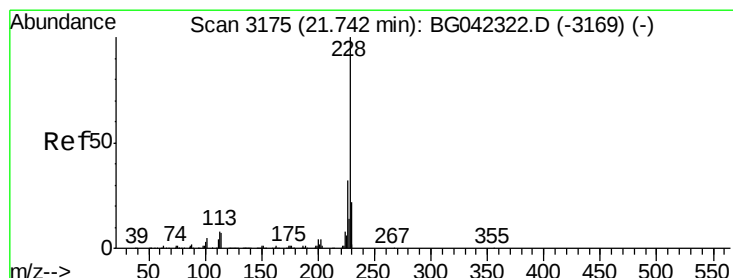
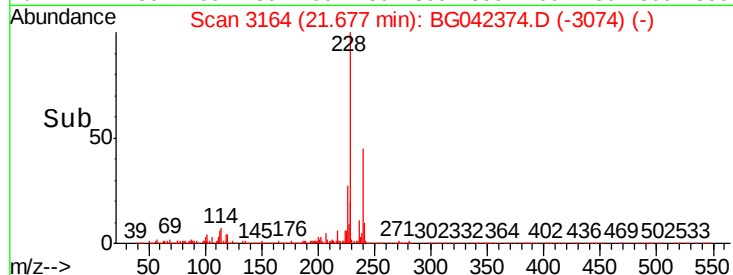
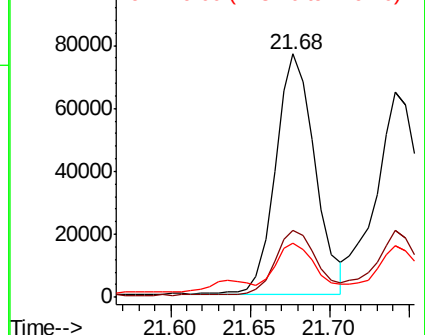


Abundance

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: 5.755 ng

RT: 21.74 min Scan# 3175

Delta R.T. -0.00 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

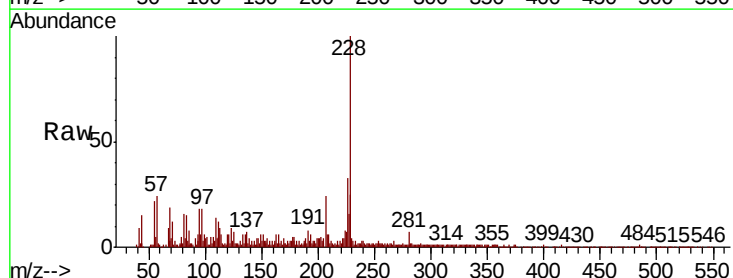
Tgt Ion:228 Resp: 121539

Ion Ratio Lower Upper

228 100

226 33.0 25.6 38.4

229 25.1 17.8 26.6

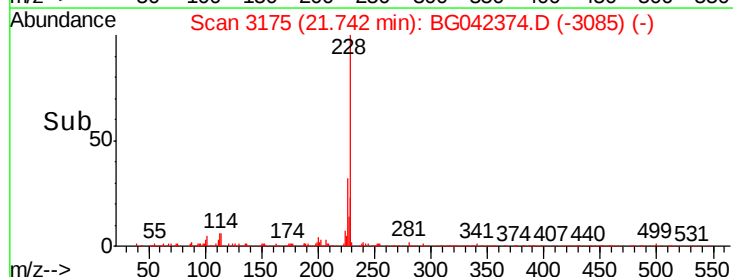
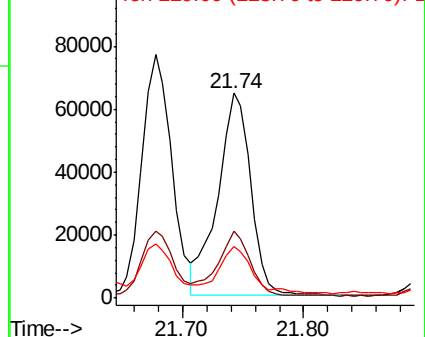


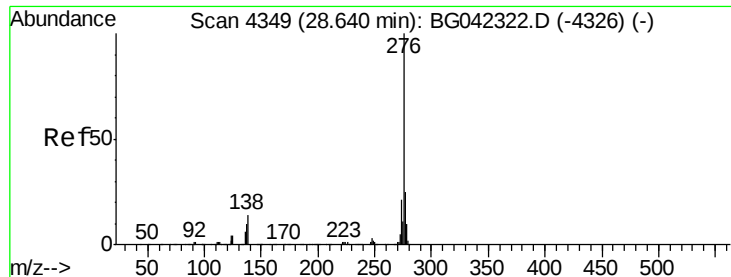
Abundance

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





#86

Indeno(1,2,3-cd)pyrene

Concen: 2.309 ng

RT: 28.66 min Scan# 4352

Delta R.T. 0.02 min

Lab File: BG042374.D

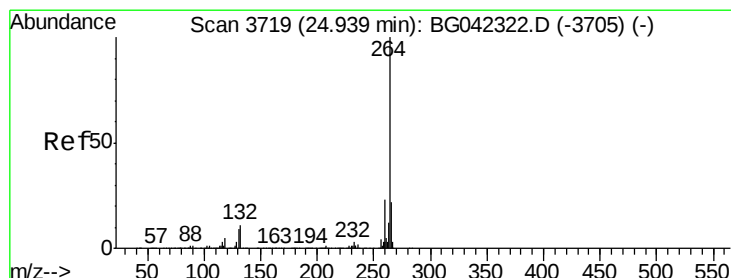
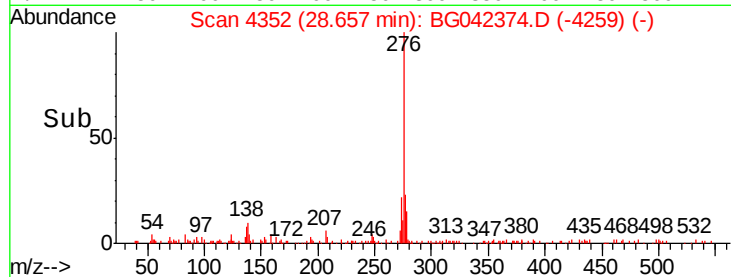
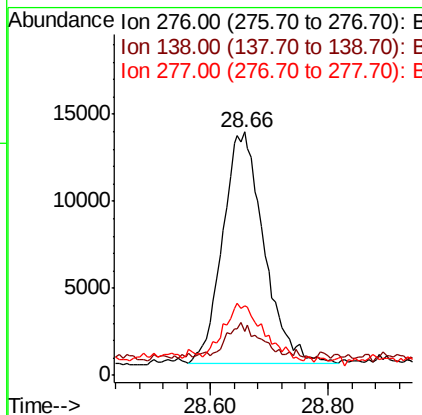
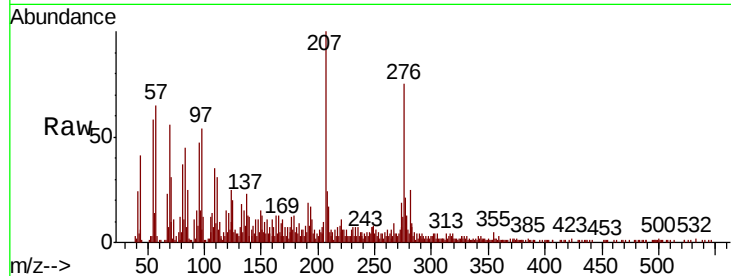
Acq: 21 Aug 2019 1:43

Instrument :

BNA_G

ClientSampleId :

Tot Ion:276	Resp:	65093
Ion Ratio	Lower	Upper
276	100	
138	10.4	14.5 21.7#
277	23.3	21.0 31.4



#87

Perylene-d12

Concen: 20.000 ng

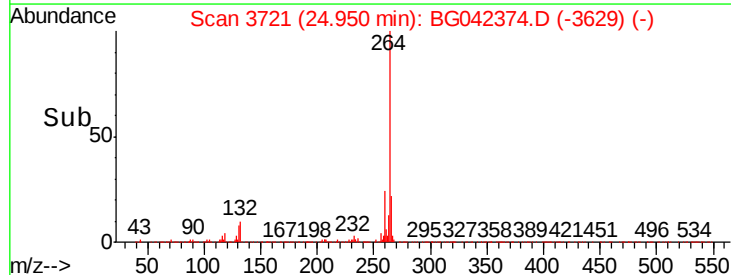
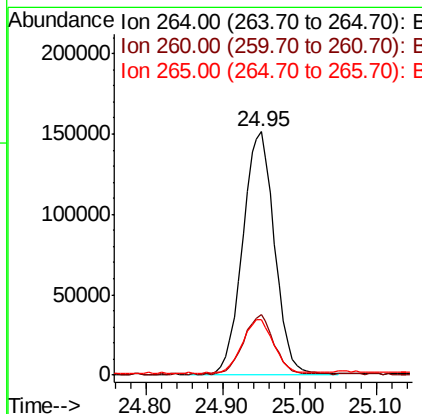
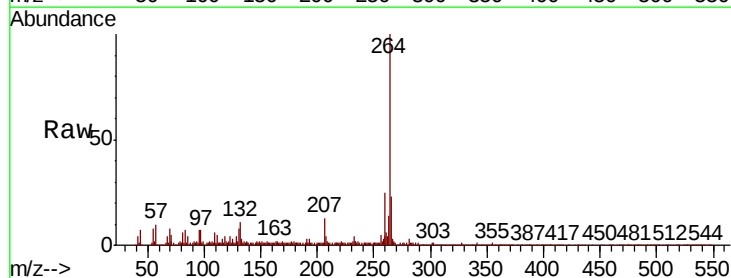
RT: 24.95 min Scan# 3721

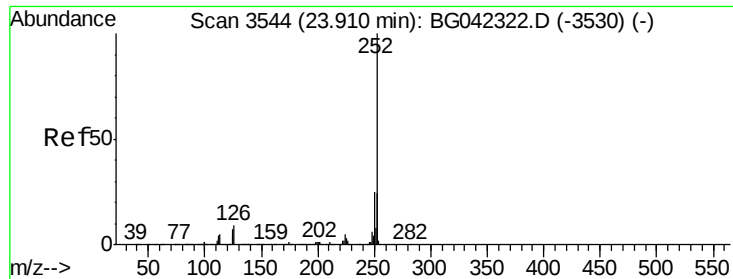
Delta R.T. 0.01 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

Tgt Ion:264	Resp:	434229
Ion Ratio	Lower	Upper
264	100	
260	24.7	18.4 27.6
265	22.8	17.4 26.0





#88

Benzo(b)fluoranthene

Concen: 6.130 ng

RT: 23.92 min Scan# 3545

Delta R.T. 0.01 min

Lab File: BG042374.D

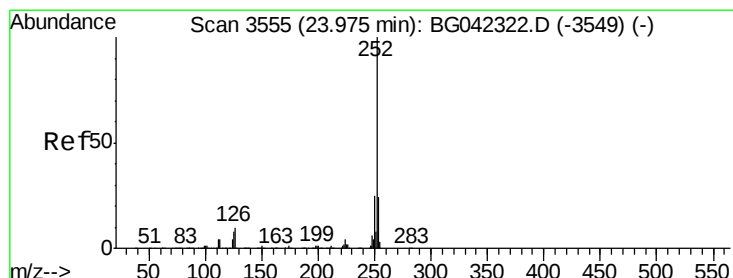
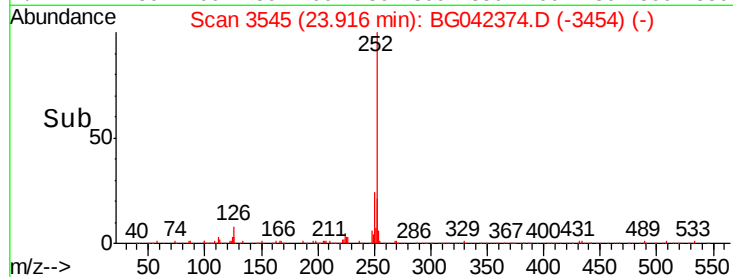
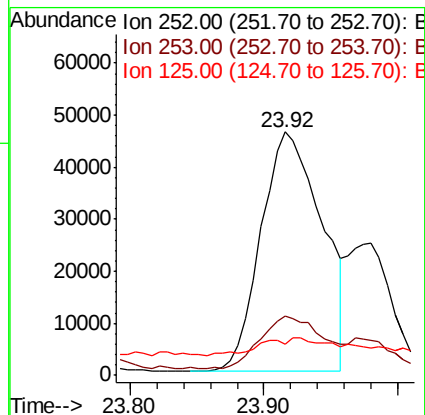
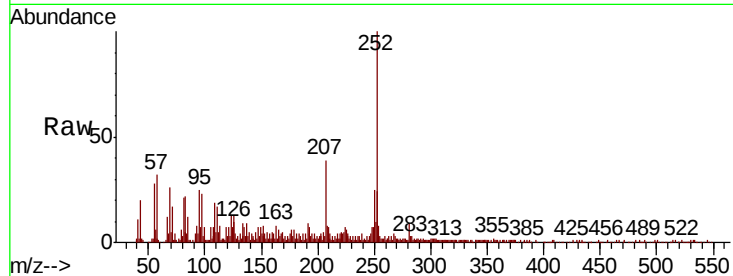
Acq: 21 Aug 2019 1:43

Instrument :

BNA_G

ClientSampleId :

Tot Ion:252	Resp:	146303
Ion Ratio	Lower	Upper
252	100	
253	24.1	18.9 28.3
125	12.9	5.8 8.6#



#89

Benzo(k)fluoranthene

Concen: 6.271 ng

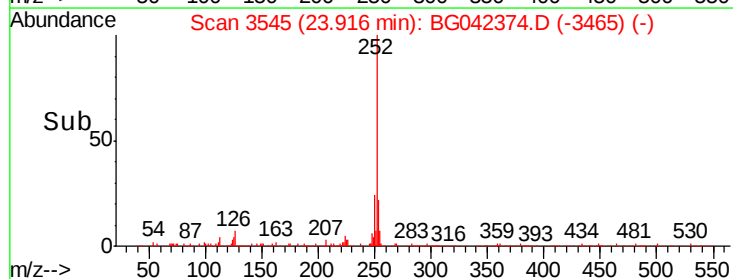
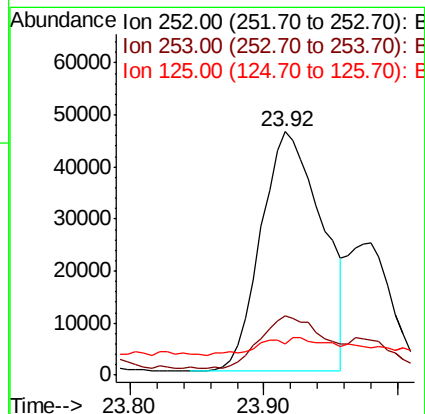
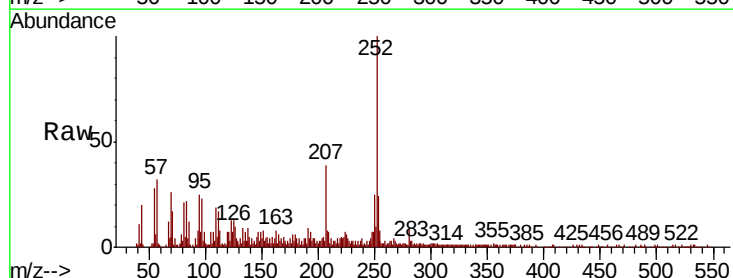
RT: 23.92 min Scan# 3545

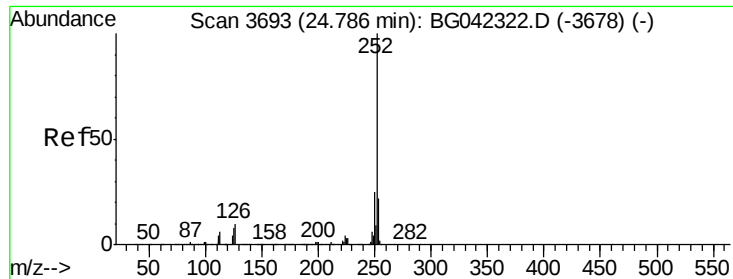
Delta R.T. -0.06 min

Lab File: BG042374.D

Acq: 21 Aug 2019 1:43

Tgt Ion:252	Resp:	146303
Ion Ratio	Lower	Upper
252	100	
253	24.1	19.0 28.4
125	12.9	6.0 9.0#

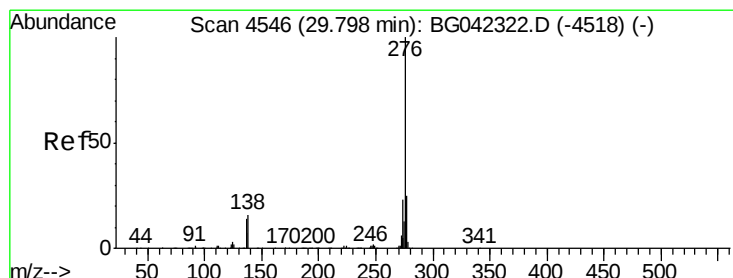
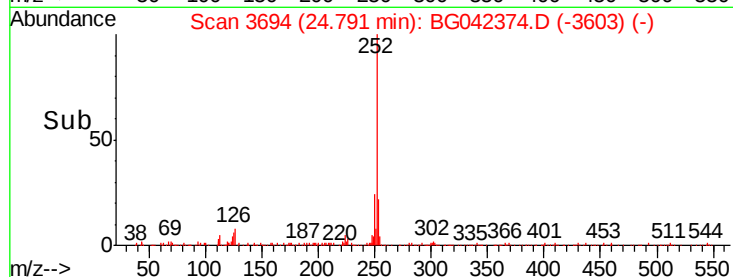
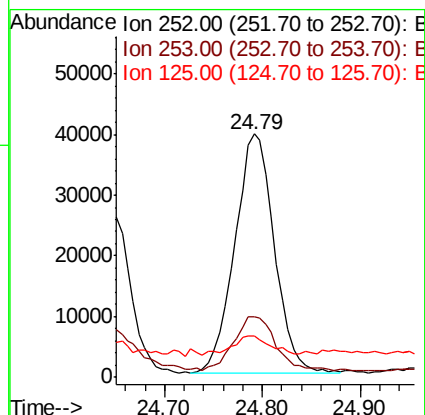
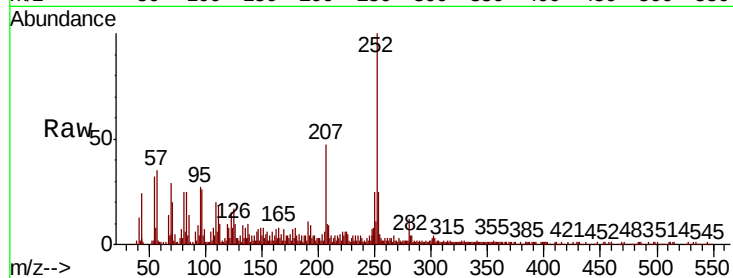




#90
Benzo(a)pyrene
Concen: 4.843 ng
RT: 24.79 min Scan# 3694
Delta R.T. 0.01 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Instrument :
BNA_G
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.9	26.9
125	17.1	6.7	10.1



#92
Benzo(g,h,i)perylene
Concen: 2.754 ng
RT: 29.81 min Scan# 4548
Delta R.T. 0.01 min
Lab File: BG042374.D
Acq: 21 Aug 2019 1:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.3	19.8	29.8
138	16.7	12.8	19.2

