

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082219\
 Data File : BG042421.D
 Acq On : 23 Aug 2019 3:58
 Operator : HP/JU
 Sample : K4086-01RE 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 23 05:32:12 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	8.00	152	68819	20.00	ng	0.00
21) Naphthalene-d8	10.83	136	256313	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	160623	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	317744	20.00	ng	0.00
76) Chrysene-d12	21.70	240	329655	20.00	ng	0.00
87) Perylene-d12	24.94	264	358528	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.56	112	411903	121.22	ng	0.00
7) Phenol-d6	7.17	99	502792	109.54	ng	0.00
23) Nitrobenzene-d5	9.17	82	247200	66.65	ng	0.00
42) 2,4,6-Tribromophenol	16.16	330	183632	80.43	ng	0.00
45) 2-Fluorobiphenyl	13.28	172	696220	73.31	ng	0.00
79) Terphenyl-d14	20.03	244	1007682	66.09	ng	0.00

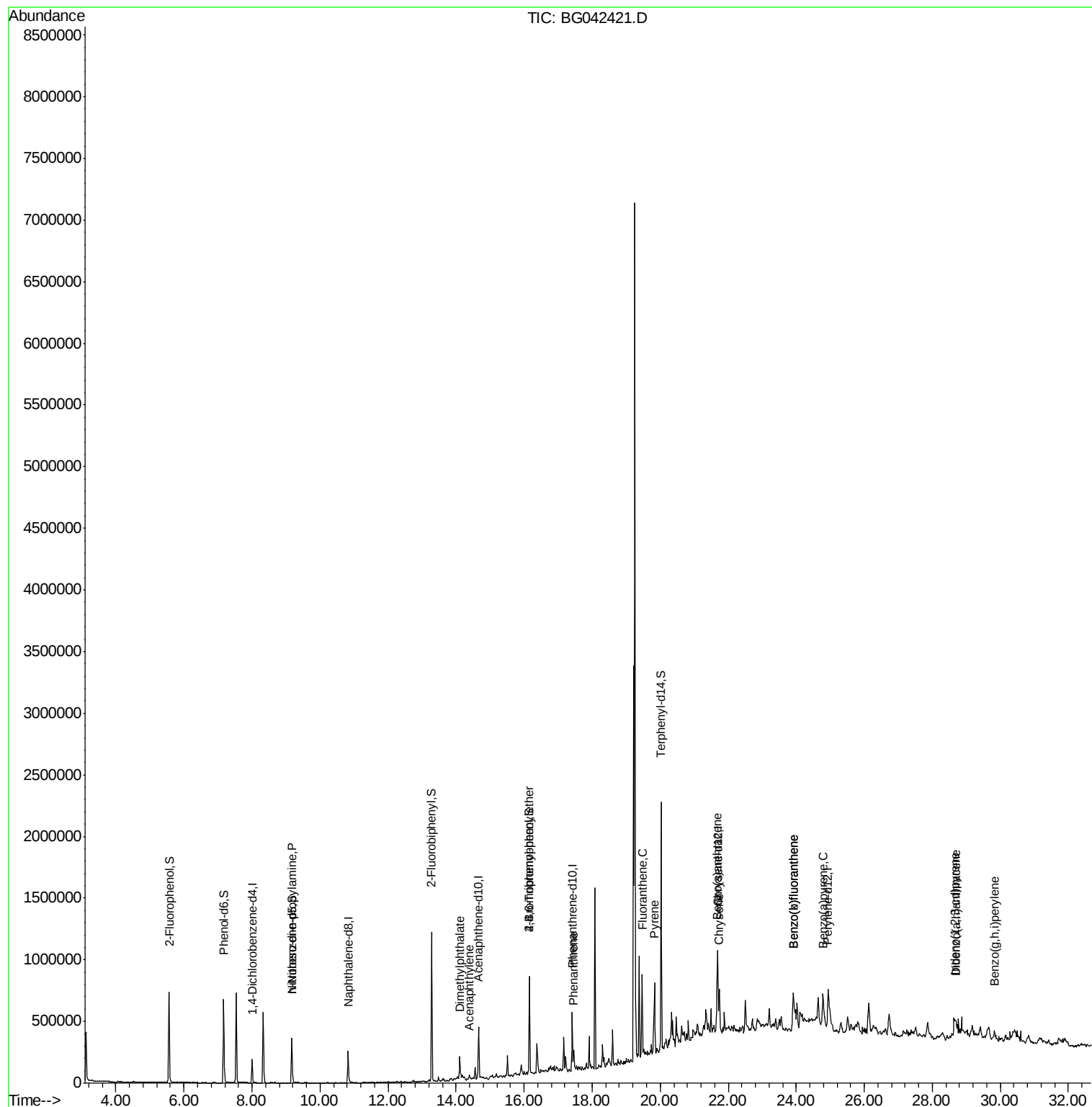
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	9.17	70	30431	10.234	ng	# 75
49) Acenaphthylene	14.39	152	27880	2.070	ng	# 94
50) Dimethylphthalate	14.11	163	136919	11.814	ng	# 98
67) 4-Bromophenyl-phenylether	16.16	248	12840	3.186	ng	# 1
71) Phenanthrene	17.46	178	109081	6.911	ng	# 98
75) Fluoranthene	19.47	202	371156	19.269	ng	# 99
78) Pyrene	19.83	202	367533	18.185	ng	# 99
81) Benzo(a)anthracene	21.67	228	251374	12.535	ng	# 98
83) Chrysene	21.74	228	278473	14.399	ng	# 98
86) Indeno(1,2,3-cd)pyrene	28.66	276	208060	7.916	ng	# 95
88) Benzo(b)fluoranthene	23.92	252	388913	19.731	ng	# 95
89) Benzo(k)fluoranthene	23.92	252	388913	20.527	ng	# 95
90) Benzo(a)pyrene	24.79	252	285920	15.287	ng	# 96
91) Dibenzo(a,h)anthracene	28.70	278	49973	2.639	ng	# 66
92) Benzo(a,h,i)perylene	29.82	276	177480	9.370	ng	# 95

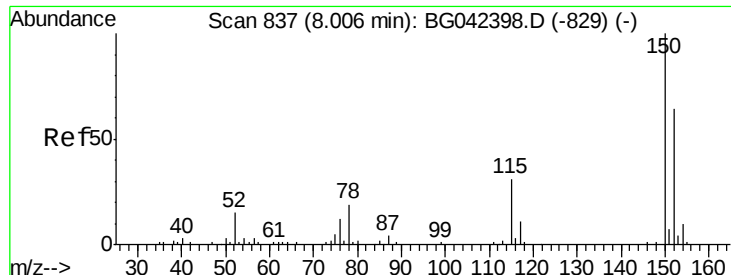
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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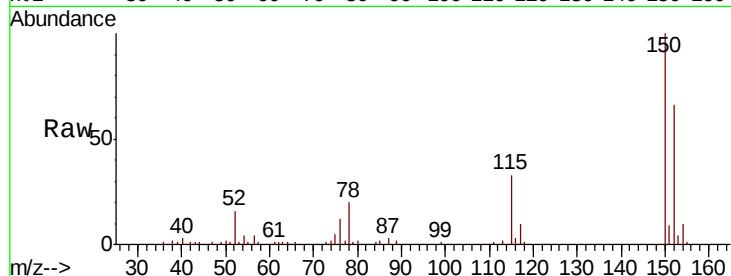


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.00 min Scan# 836
 Delta R.T. -0.01 min
 Lab File: BG042421.D
 Acq: 23 Aug 2019 3:58

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.0	125.4	188.0
115	50.7	38.5	57.7

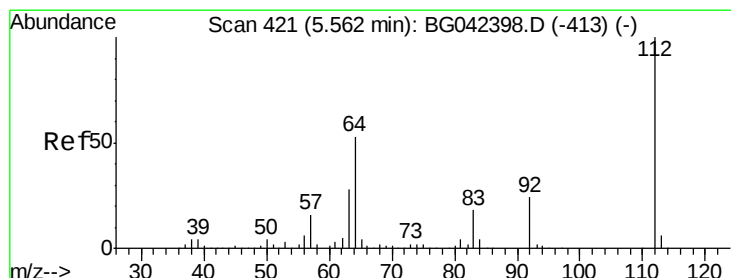
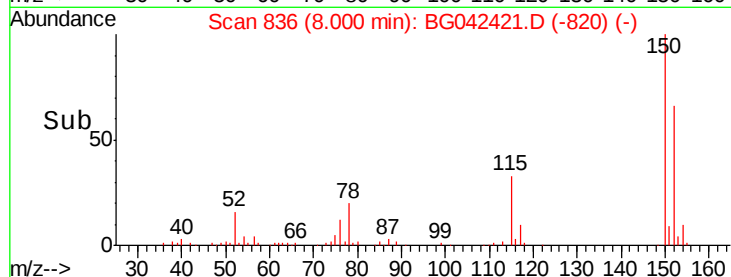
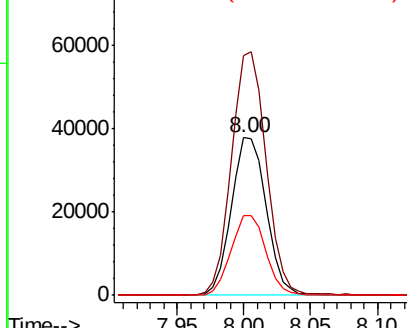


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

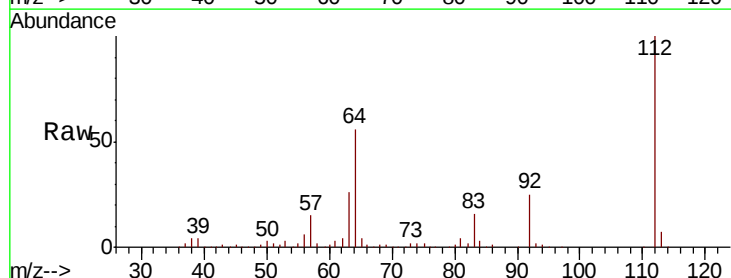
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
 Concen: 121.220 ng
 RT: 5.56 min Scan# 421
 Delta R.T. -0.00 min
 Lab File: BG042421.D
 Acq: 23 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	42.8	64.2
63	26.4	22.7	34.1

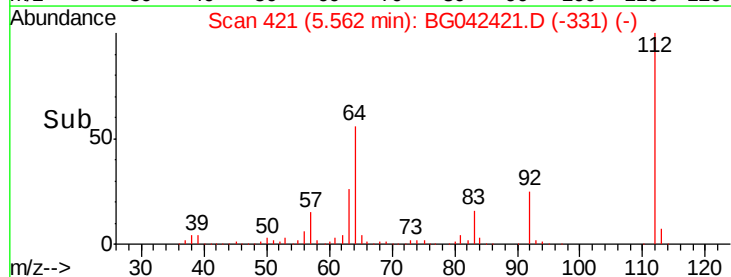
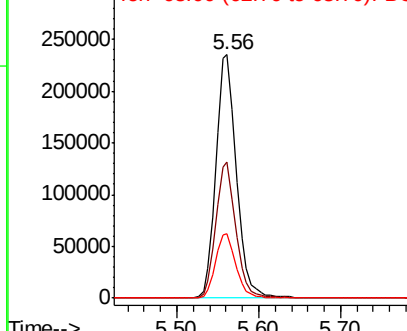


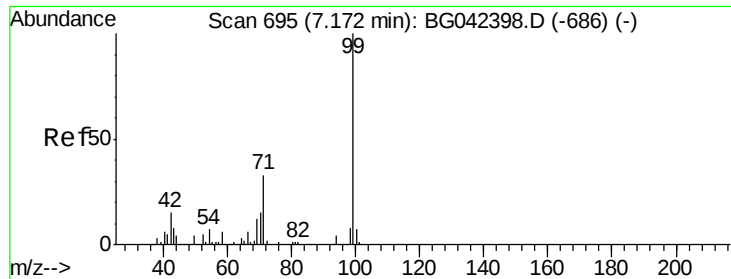
Abundance

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: 109.543 ng

RT: 7.17 min Scan# 694

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

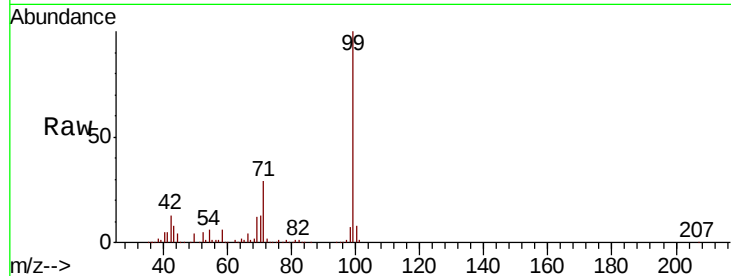
Tot Ion: 99 Resp: 502792

Ion Ratio Lower Upper

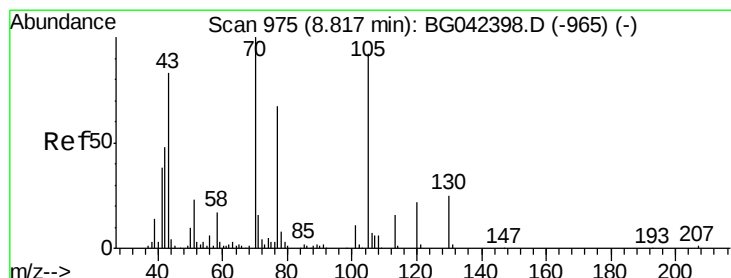
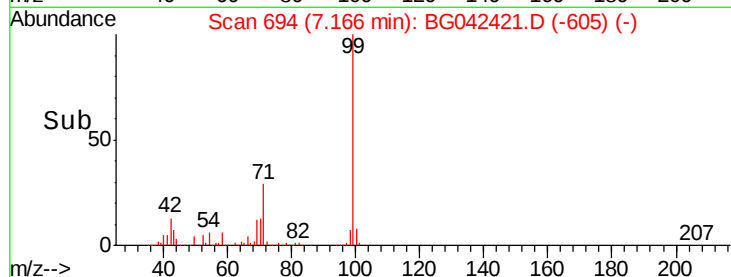
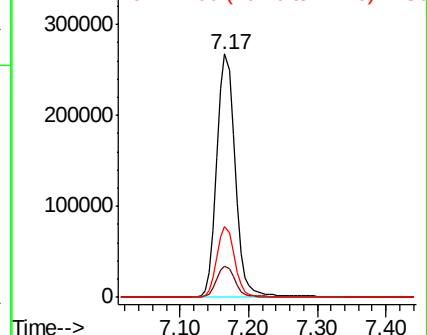
99 100

42 12.9 12.0 18.0

71 29.0 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



#19

n-Nitroso-di-n-propylamine

Concen: 10.234 ng

RT: 9.17 min Scan# 1035

Delta R.T. 0.35 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Tgt Ion: 70 Resp: 30431

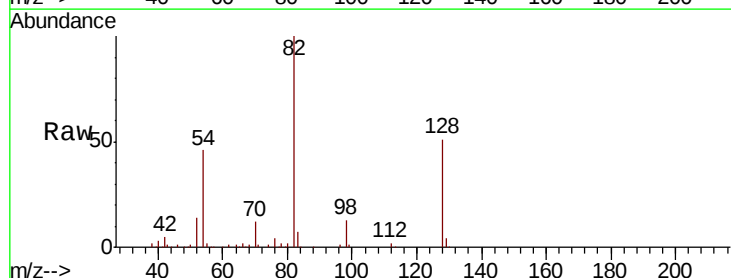
Ion Ratio Lower Upper

70 100

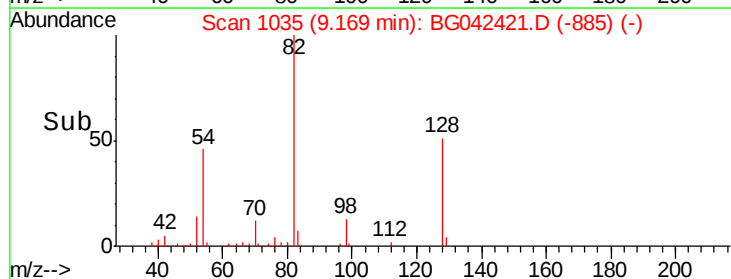
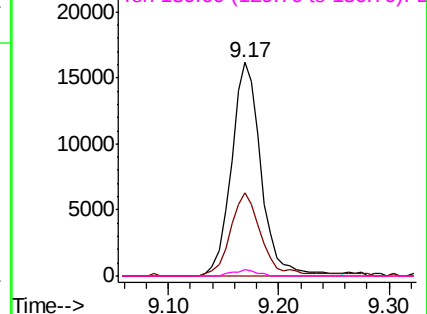
42 39.0 38.8 58.2

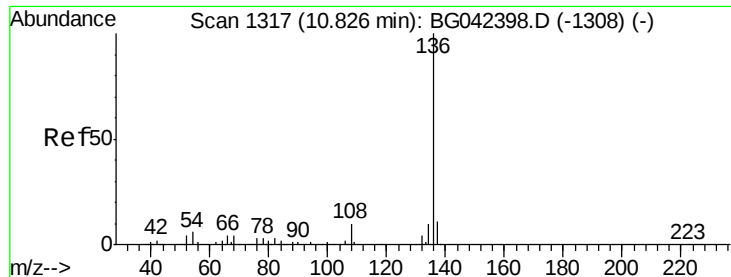
101 0.0 9.0 13.6#

130 2.7 20.0 30.0#



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

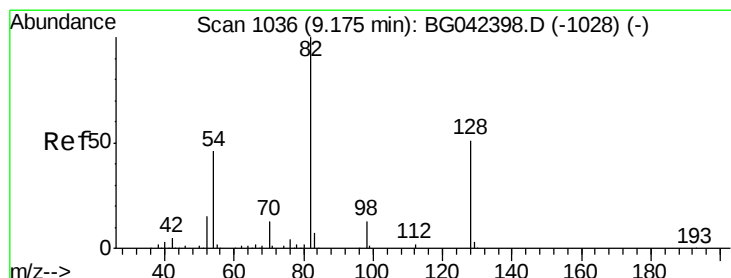
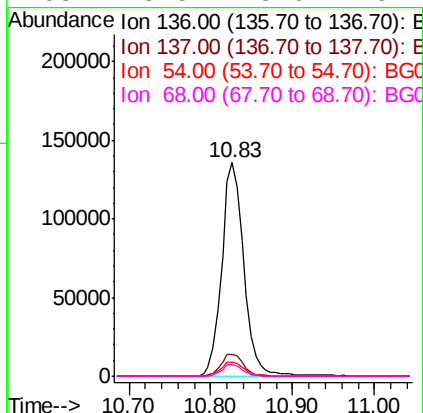
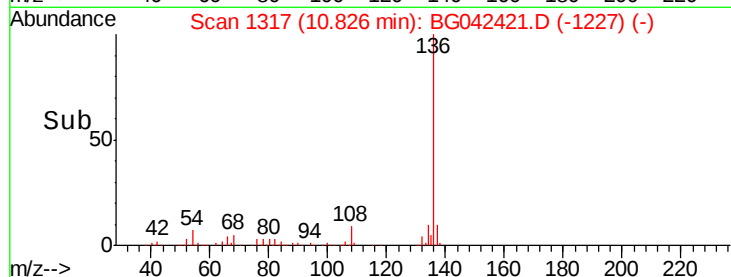
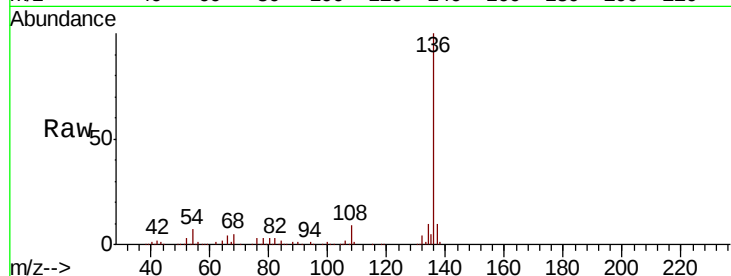




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.83 min Scan# 1317
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

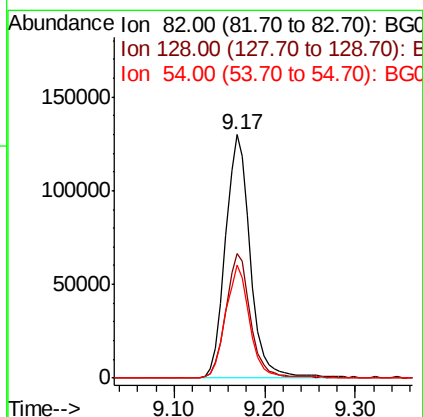
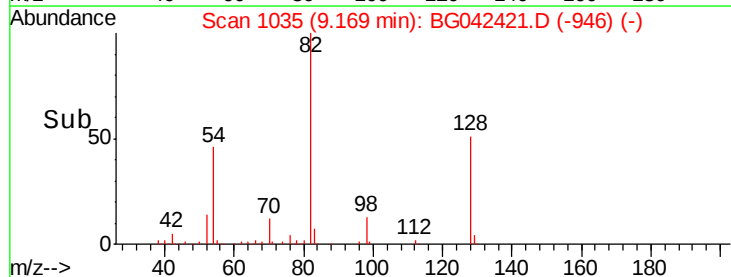
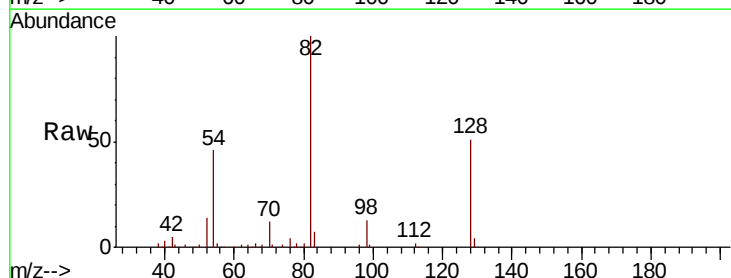
Instrument :
BNA_G
ClientSampleId :

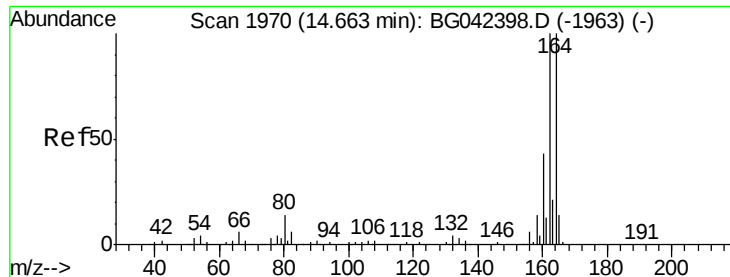
Tot Ion:136	Resp:	256313
Ion	Ratio	Lower Upper
136	100	
137	10.4	8.7 13.1
54	6.8	4.9 7.3
68	5.5	3.6 5.4



#23
Nitrobenzene-d5
Concen: 66.647 ng
RT: 9.17 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion: 82	Resp:	247200
Ion	Ratio	Lower Upper
82	100	
128	51.0	40.7 61.1
54	46.2	36.3 54.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1970

Delta R.T. -0.00 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

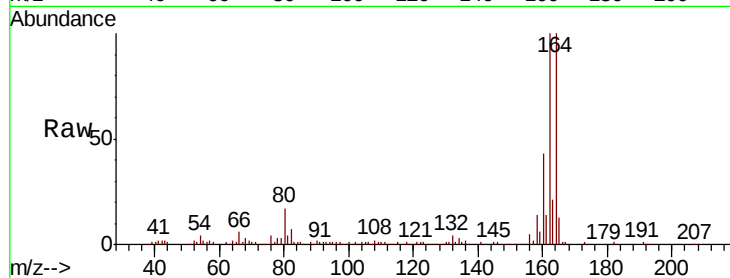
Tot Ion:164 Resp: 160623

Ion Ratio Lower Upper

164 100

162 100.0 79.9 119.9

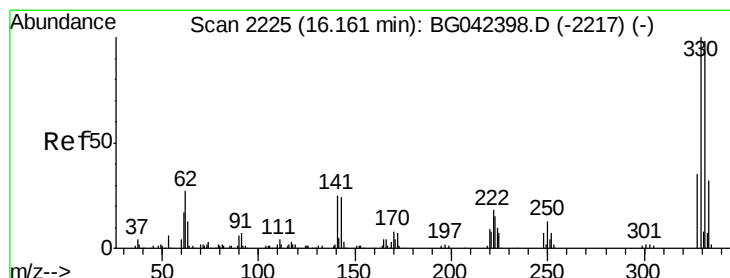
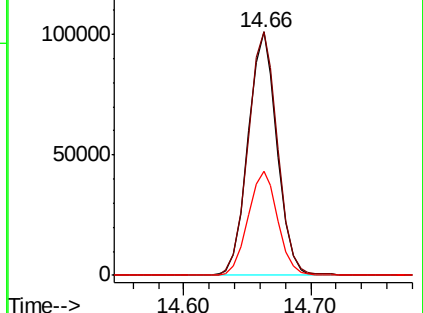
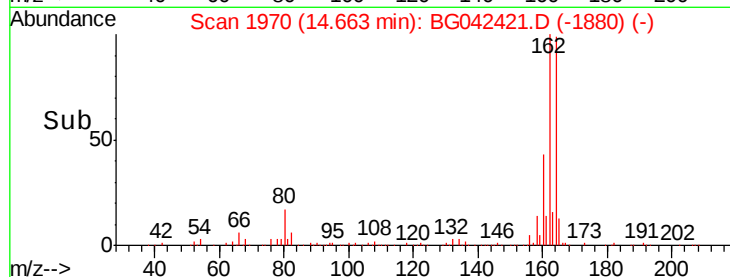
160 42.7 34.3 51.5



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: 80.435 ng

RT: 16.16 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

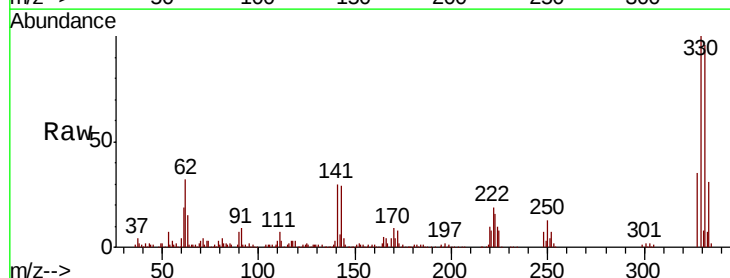
Tgt Ion:330 Resp: 183632

Ion Ratio Lower Upper

330 100

332 96.2 77.4 116.0

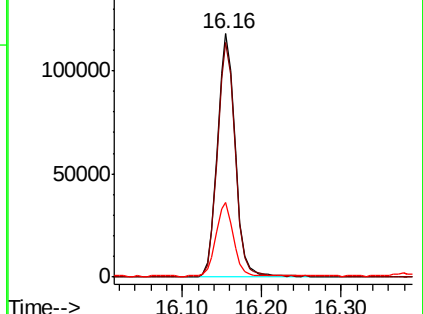
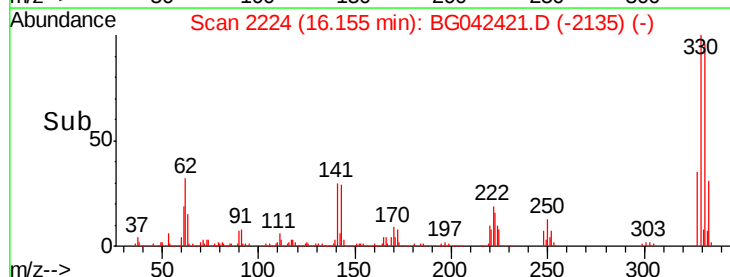
141 29.4 21.4 32.0

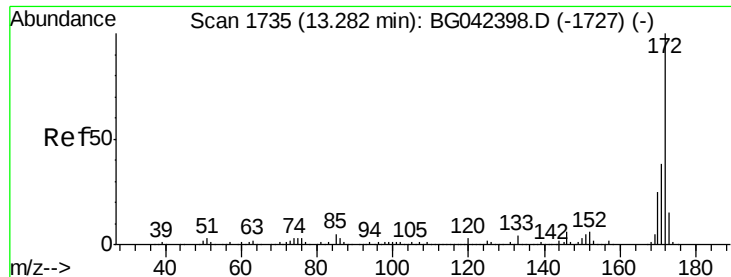


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

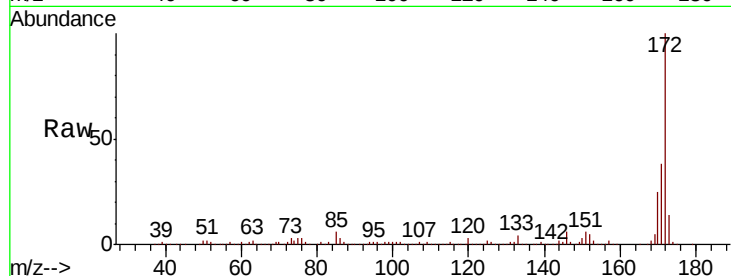




#45
2-Fluorobiphenyl
Concen: 73.309 ng
RT: 13.28 min Scan# 1735
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Instrument :
BNA_G
ClientSampled :

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.6	30.5	45.7
170	25.0	20.2	30.2

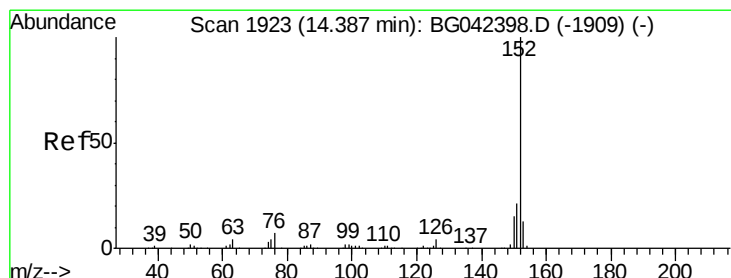
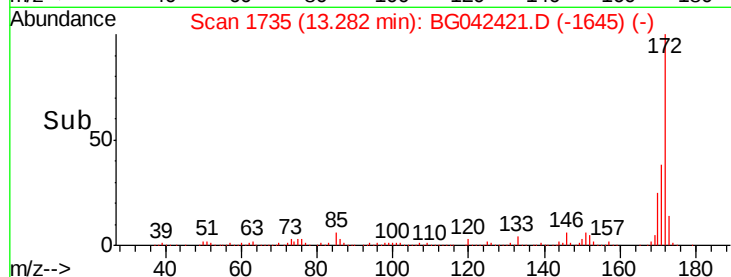
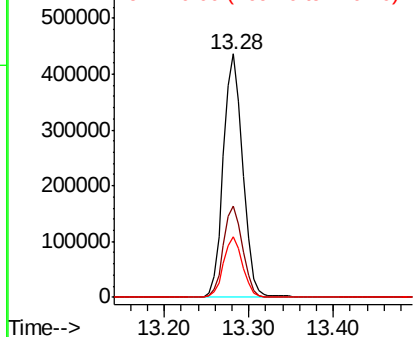


Abundance

Ion 172.00 (171.70 to 172.70): E

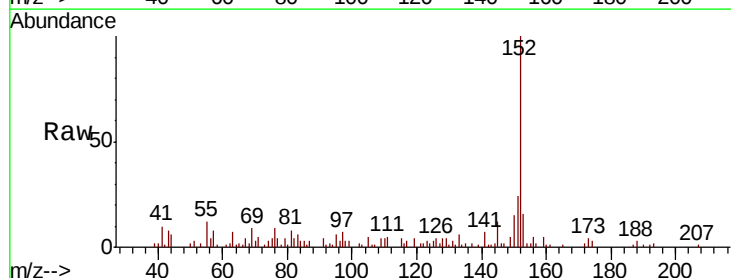
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Acenaphthylene
Concen: 2.070 ng
RT: 14.39 min Scan# 1924
Delta R.T. 0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
152	100		
151	23.8	17.0	25.4
153	16.4	10.6	16.0#

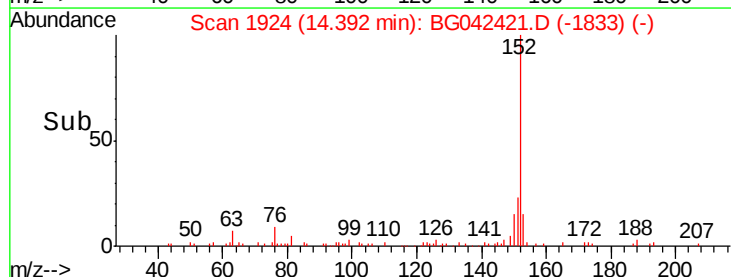
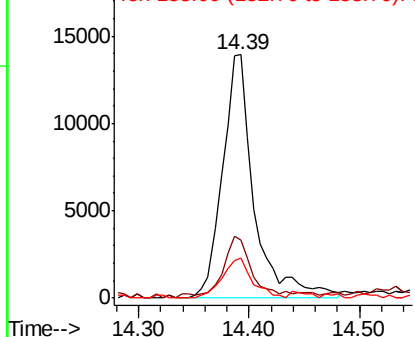


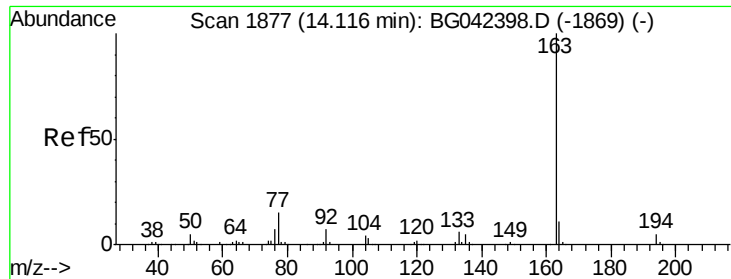
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#50

Dimethylphthalate

Concen: 11.814 ng

RT: 14.11 min Scan# 1876

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampled :

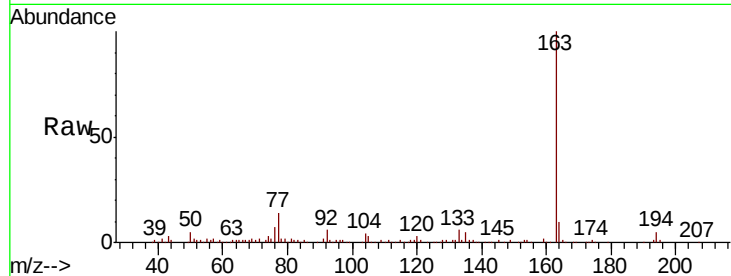
Tot Ion:163 Resp: 136919

Ion Ratio Lower Upper

163 100

194 5.4 4.2 6.2

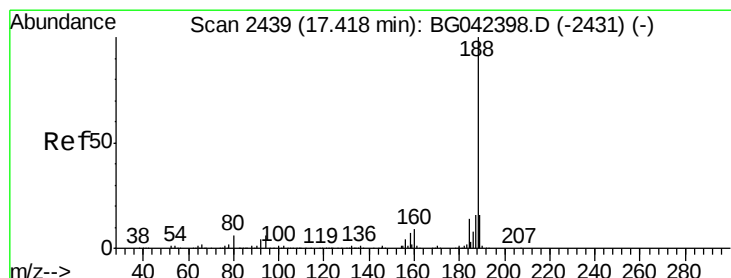
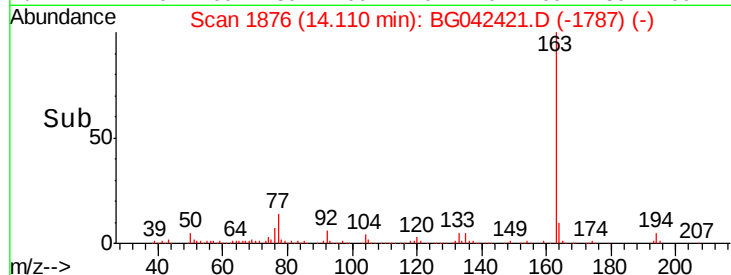
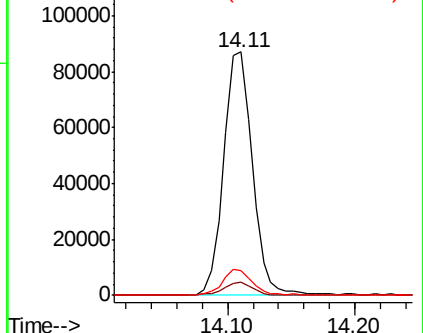
164 10.3 8.8 13.2



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.41 min Scan# 2438

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

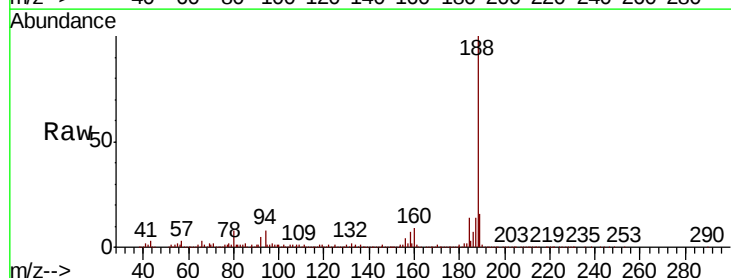
Tgt Ion:188 Resp: 317744

Ion Ratio Lower Upper

188 100

94 7.5 4.5 6.7#

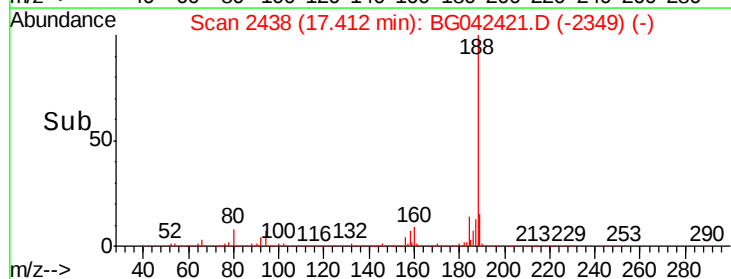
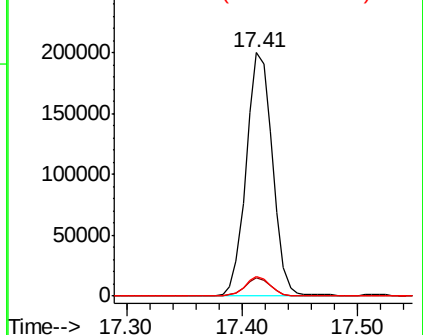
80 8.0 4.9 7.3#

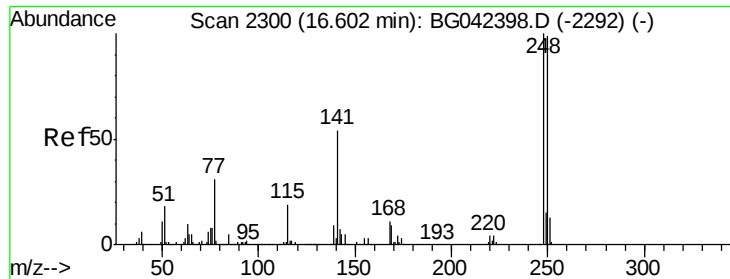


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

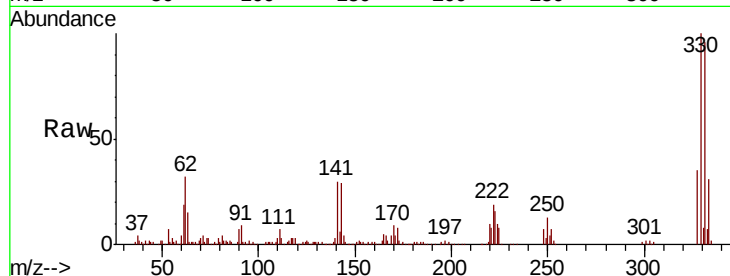




#67
 4-Bromophenyl-phenylether
 Concen: 3.186 ng
 RT: 16.16 min Scan# 2224
 Delta R.T. -0.45 min
 Lab File: BG042421.D
 Acq: 23 Aug 2019 3:58

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
248	100		
250	179.3	78.9	118.3#
141	428.7	43.3	64.9#

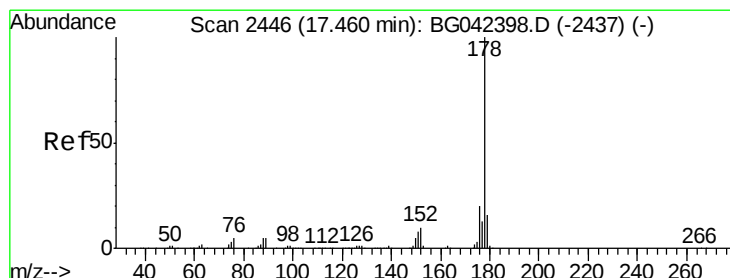
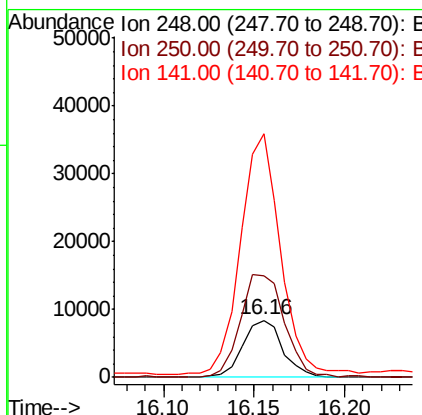
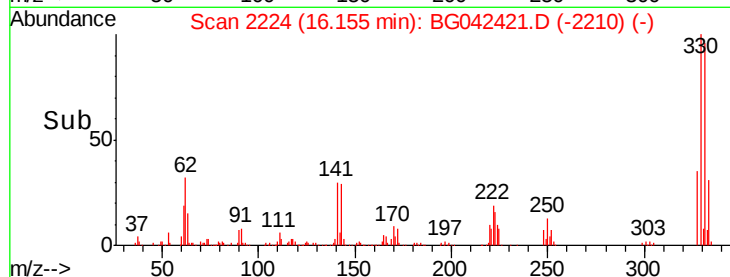


Abundance

Ion 248.00 (247.70 to 248.70): E

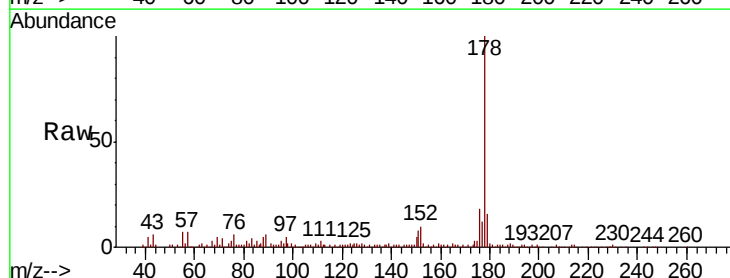
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#71
 Phenanthrene
 Concen: 6.911 ng
 RT: 17.46 min Scan# 2446
 Delta R.T. -0.00 min
 Lab File: BG042421.D
 Acq: 23 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.9	23.9
179	16.0	12.7	19.1

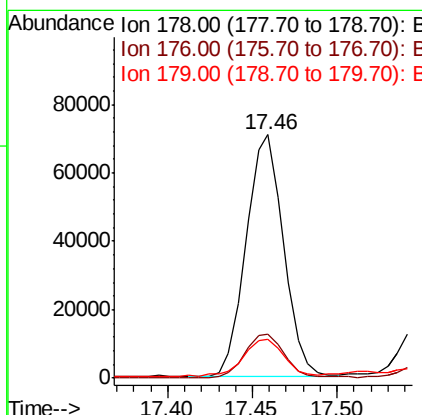
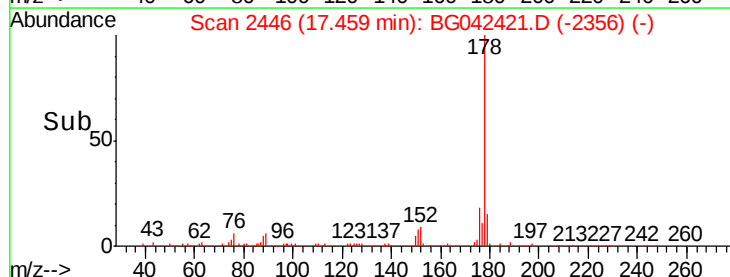


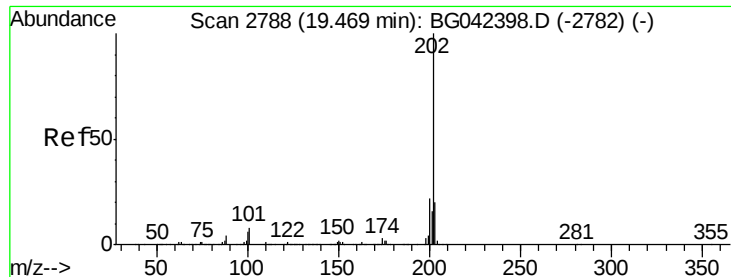
Abundance

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: 19.269 ng

RT: 19.47 min Scan# 2788

Delta R.T. -0.00 min

Lab File: BG042421.D

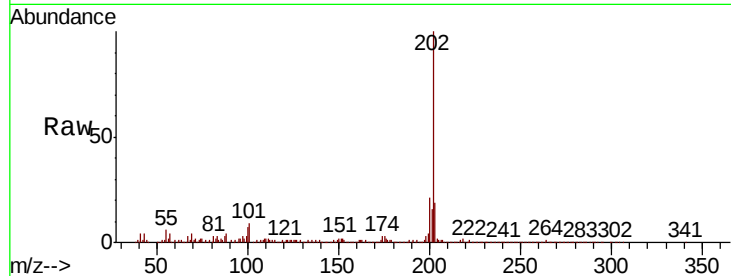
Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

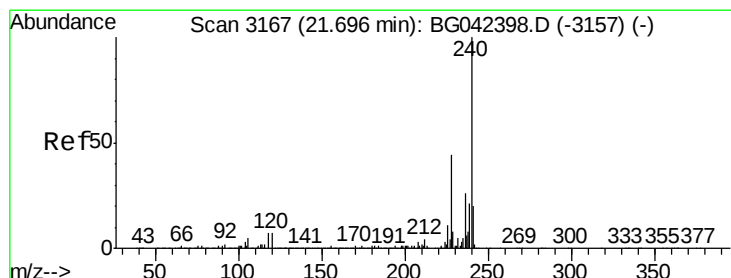
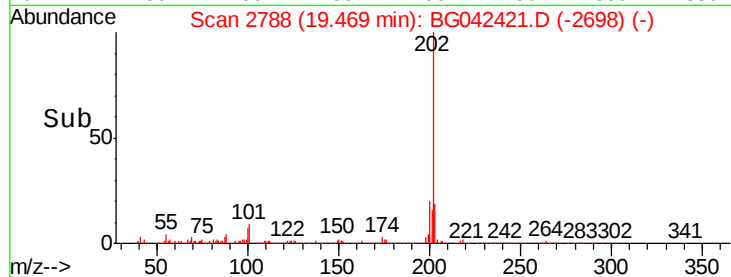
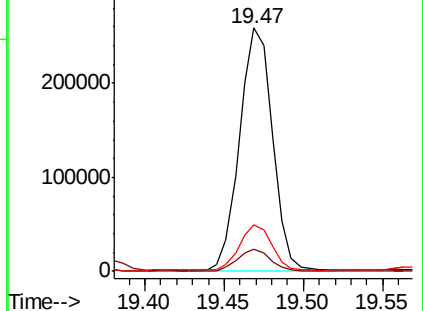
Tot Ion:	202	Resp:	371156
Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	28.3
203	19.1	0.0	39.6



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



#76

Chrysene-d12

Concen: 20.000 ng

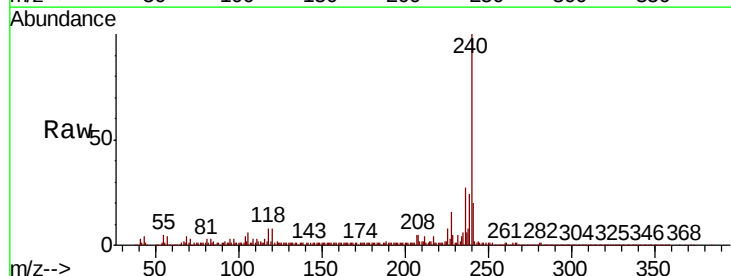
RT: 21.70 min Scan# 3167

Delta R.T. -0.00 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

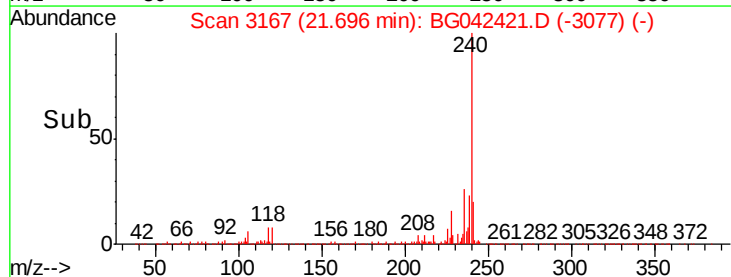
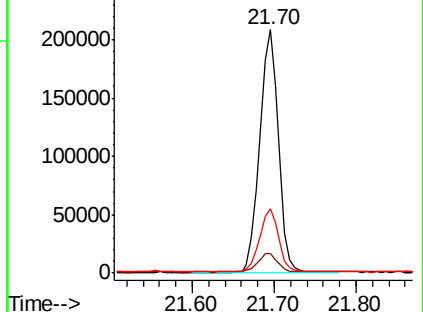
Tgt Ion:	240	Resp:	329655
Ion	Ratio	Lower	Upper
240	100		
120	8.3	5.7	8.5
236	26.5	21.0	31.4

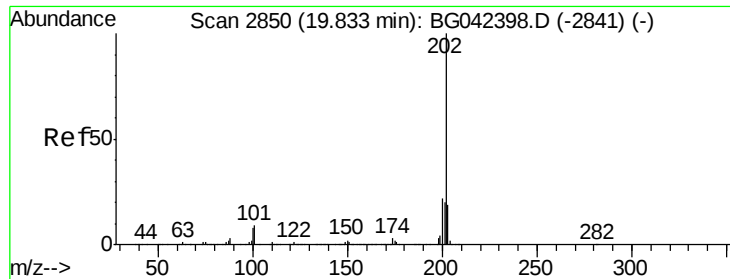


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

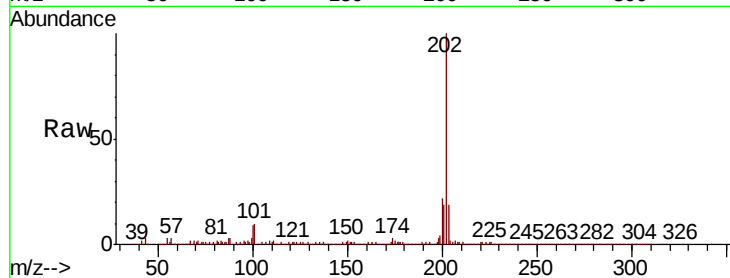




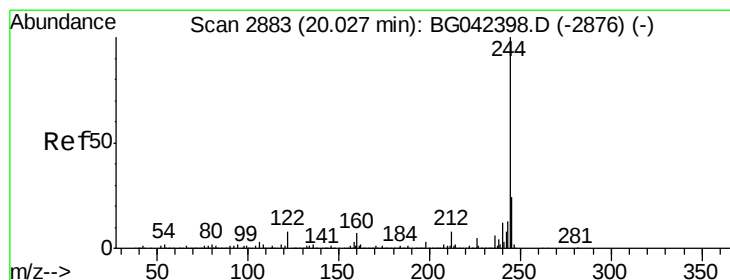
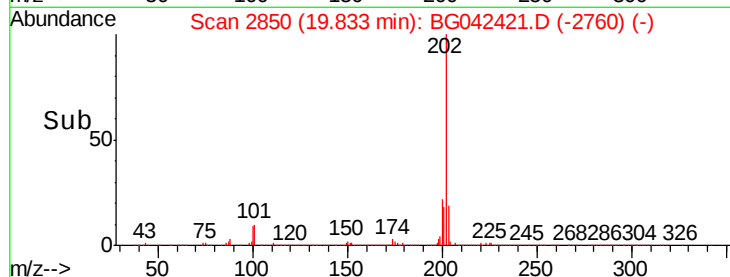
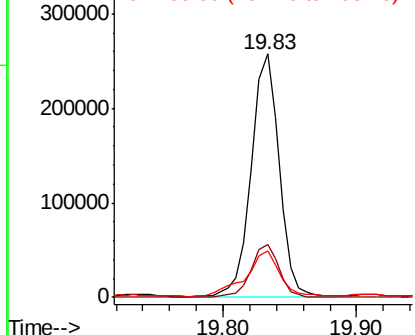
#78
Pvrene
Concen: 18.185 ng
RT: 19.83 min Scan# 2850
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.8	26.6
203	19.0	15.5	23.3

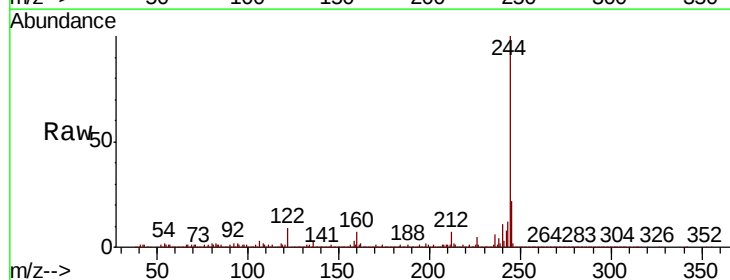


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

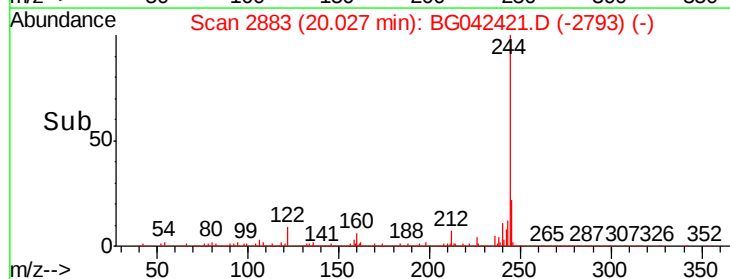
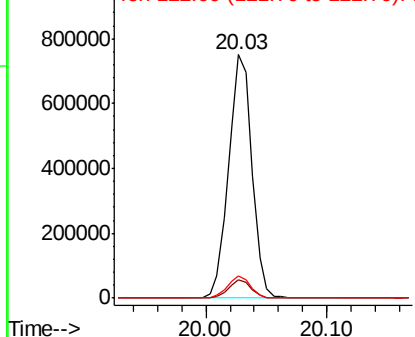


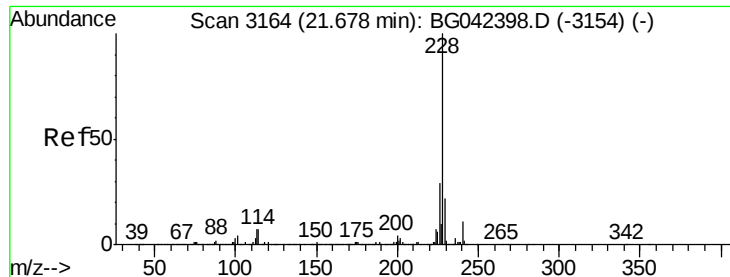
#79
Terphenyl-d14
Concen: 66.085 ng
RT: 20.03 min Scan# 2883
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	9.4	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

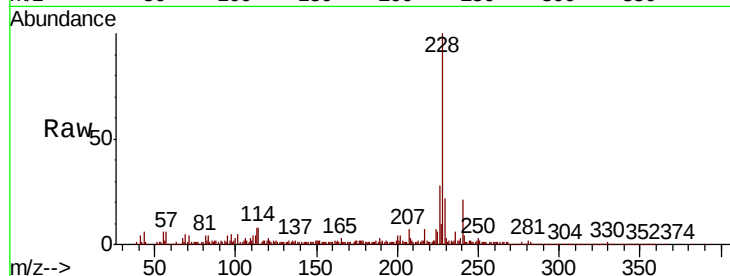




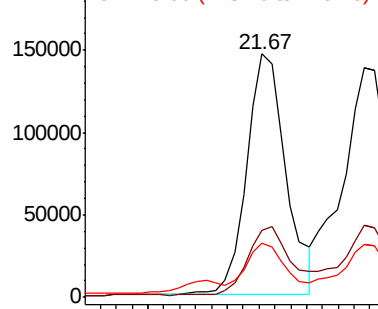
#81
Benzo(a)anthracene
Concen: 12.535 ng
RT: 21.67 min Scan# 3163
Delta R.T. -0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Instrument :
BNA_G
ClientSampleId :

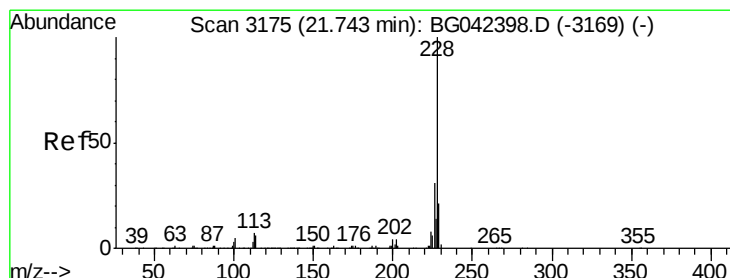
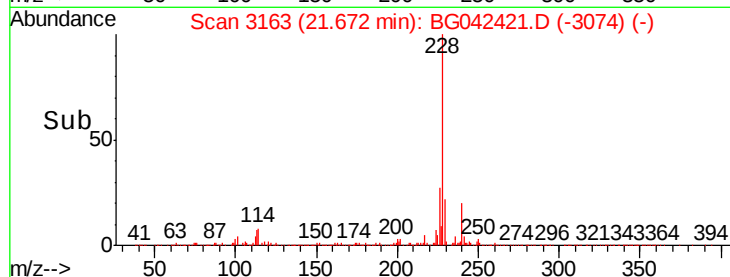
Tot Ion	Ratio	Lower	Upper
228	100		
226	27.7	23.4	35.2
229	22.3	17.4	26.2



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

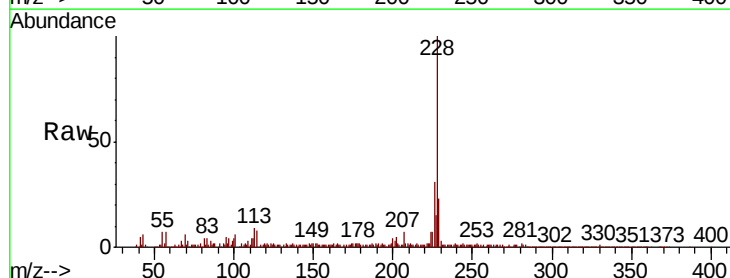


Time-->

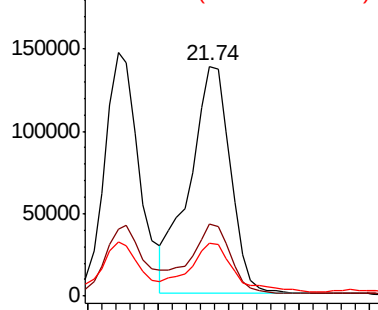


#83
Chrysene
Concen: 14.399 ng
RT: 21.74 min Scan# 3174
Delta R.T. -0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

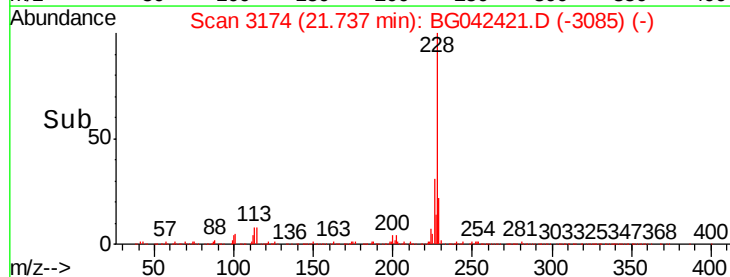
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.9	37.3
229	23.0	16.9	25.3

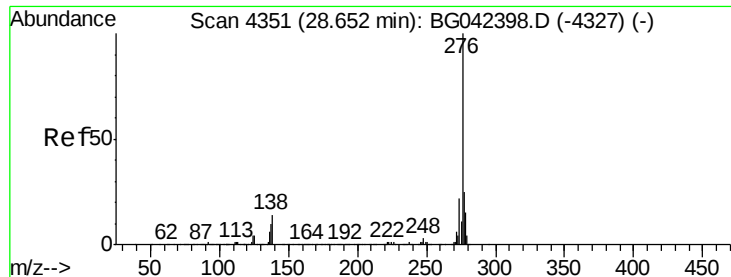


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Time-->

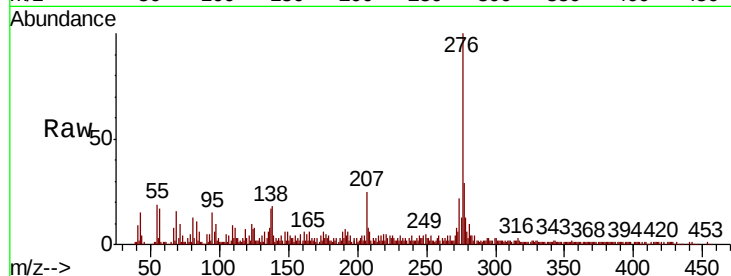




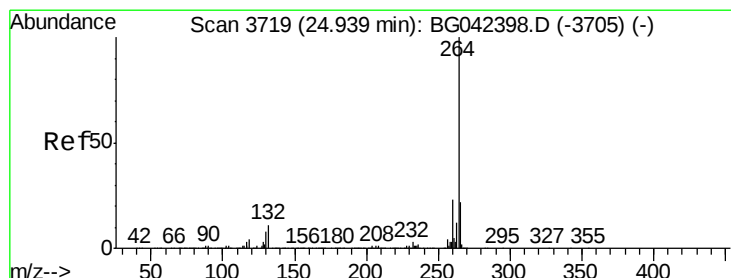
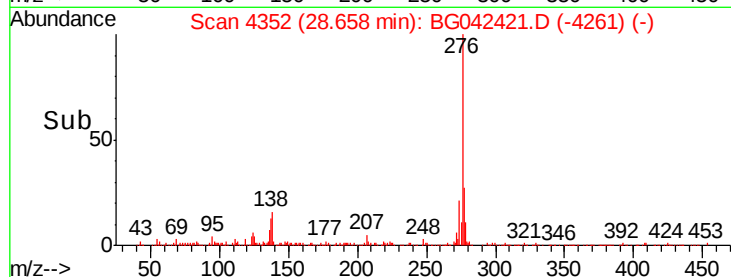
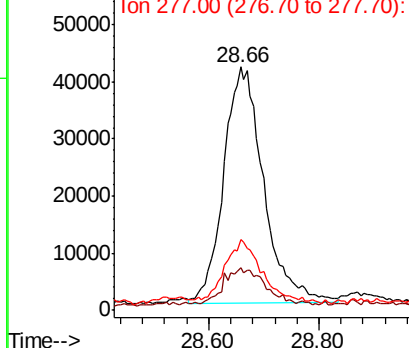
#86
Indeno(1,2,3-cd)pyrene
Concen: 7.916 ng
RT: 28.66 min Scan# 4352
Delta R.T. 0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Instrument :
BNA_G
ClientSampled :

Tot Ion:276 Resp: 208060
Ion Ratio Lower Upper
276 100
138 15.4 9.2 13.8#
277 25.1 21.0 31.6

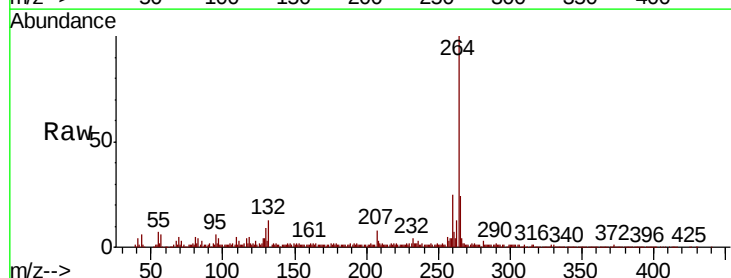


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

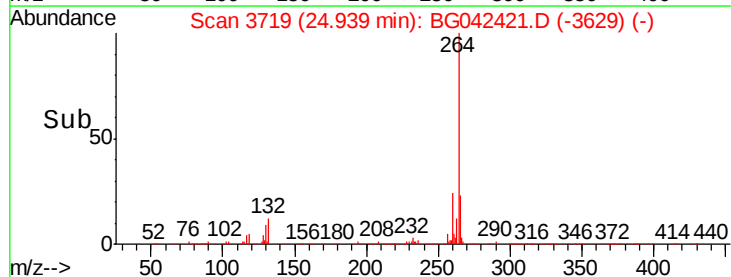
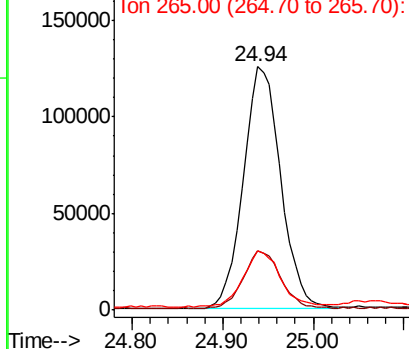


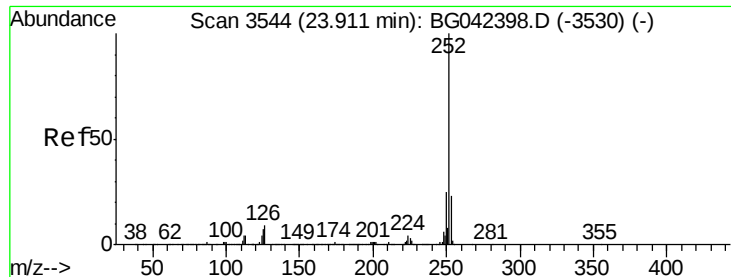
#87
Perylene-d12
Concen: 20.000 ng
RT: 24.94 min Scan# 3719
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion:264 Resp: 358528
Ion Ratio Lower Upper
264 100
260 24.5 18.5 27.7
265 24.2 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: 19.731 ng

RT: 23.92 min Scan# 3545

Delta R.T. 0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

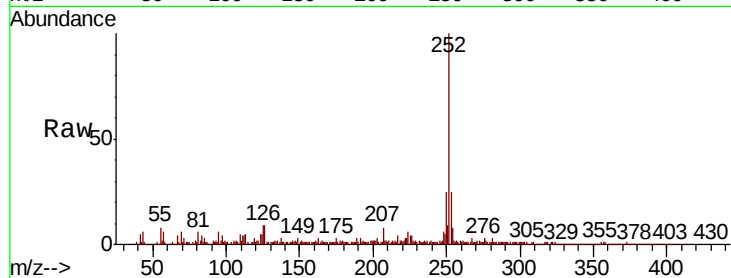
Tot Ion:252 Resp: 388913

Ion Ratio Lower Upper

252 100

253 25.4 18.6 27.8

125 8.7 5.6 8.4#

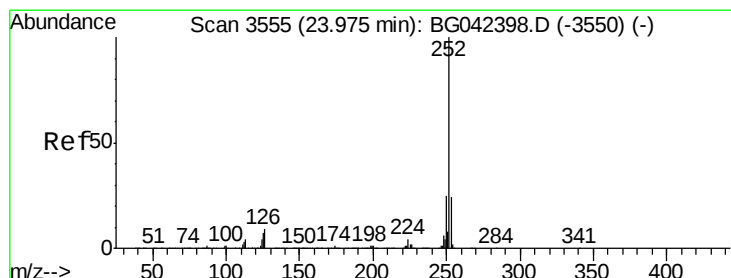
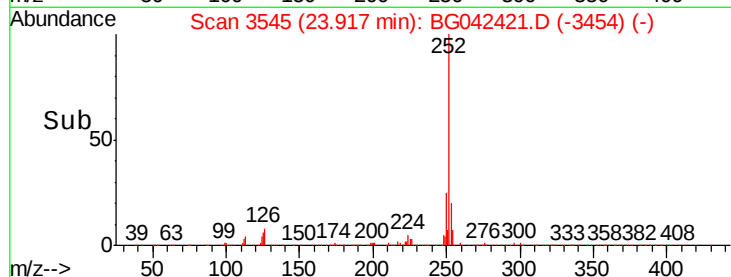
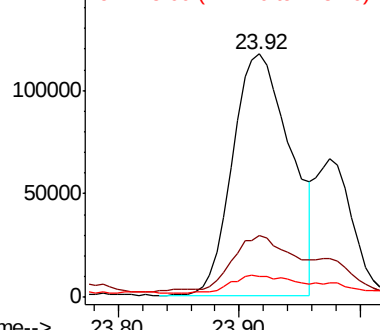


Abundance

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: 20.527 ng

RT: 23.92 min Scan# 3545

Delta R.T. -0.06 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

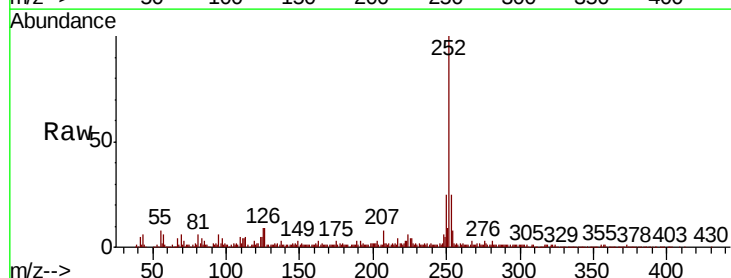
Tgt Ion:252 Resp: 388913

Ion Ratio Lower Upper

252 100

253 25.4 18.6 27.8

125 8.7 5.8 8.6#

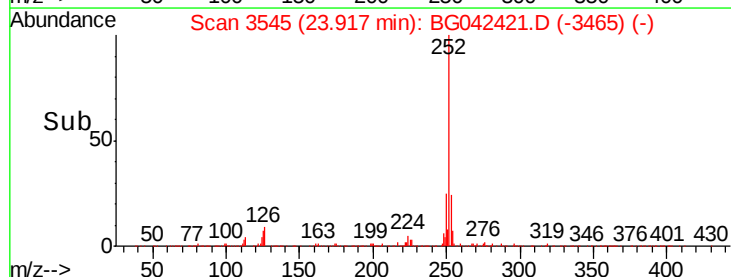
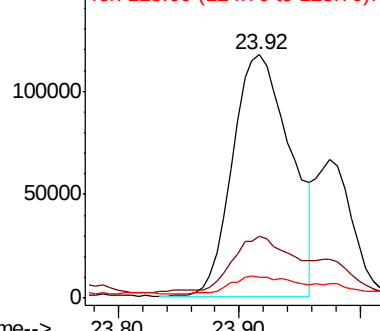


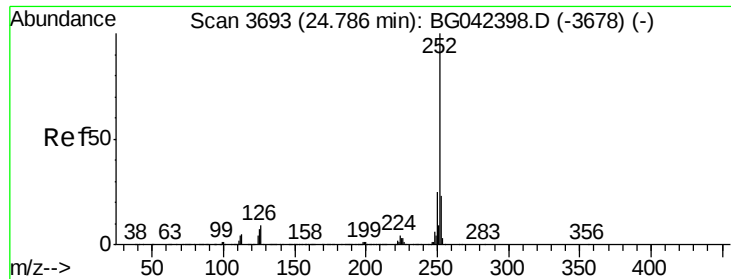
Abundance

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

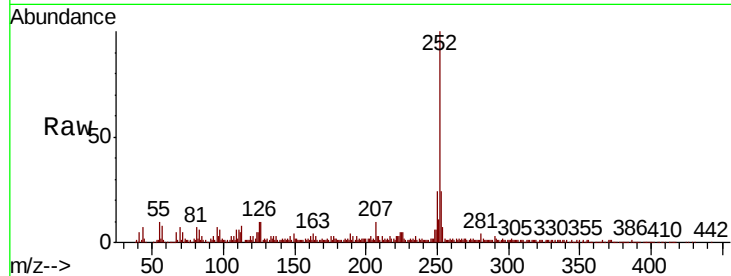




#90
Benzo(a)pyrene
Concen: 15.287 ng
RT: 24.79 min Scan# 3694
Delta R.T. 0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.4	27.6
125	10.2	6.0	9.0

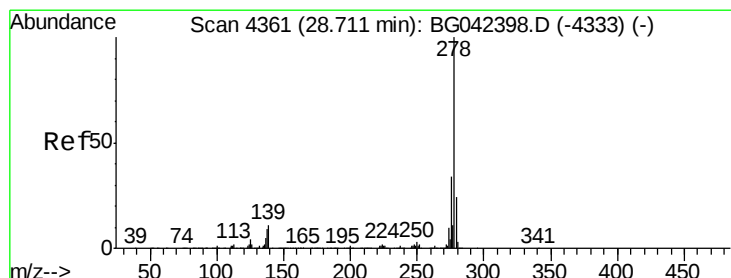
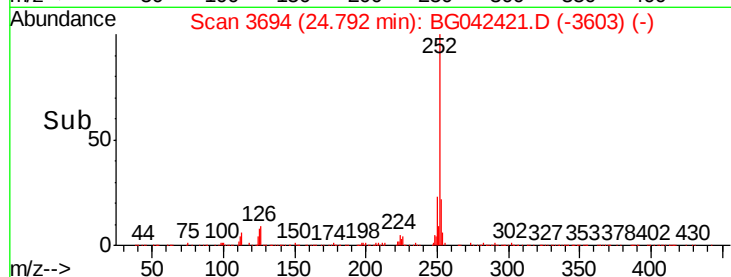
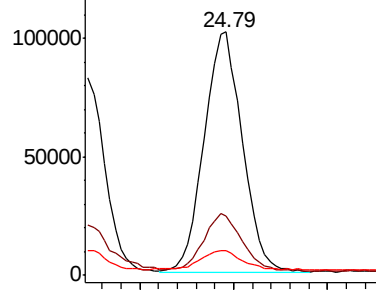


Abundance

Ion 252.00 (251.70 to 252.70): E

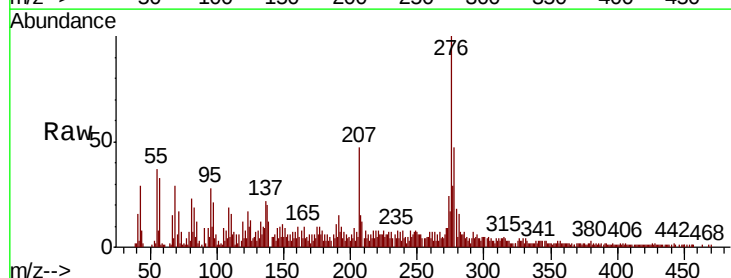
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 2.639 ng
RT: 28.70 min Scan# 4359
Delta R.T. -0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.3	8.8	13.2
279	38.9	19.1	28.7

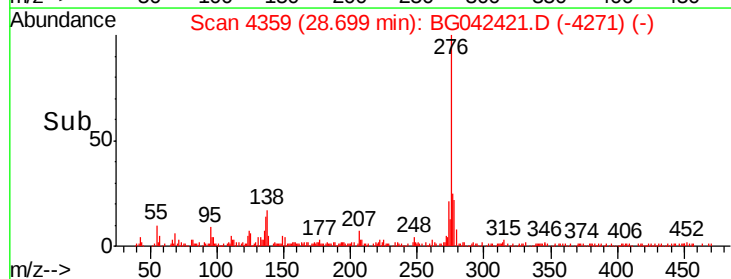
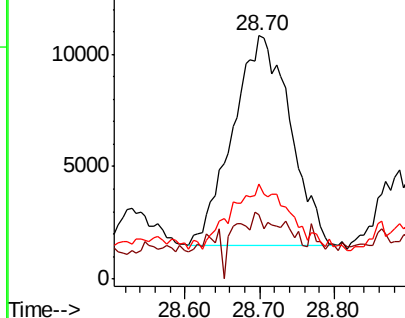


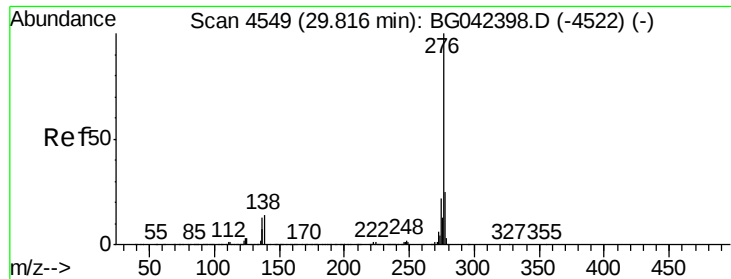
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 9.370 ng

RT: 29.82 min Scan# 4550

Delta R.T. 0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

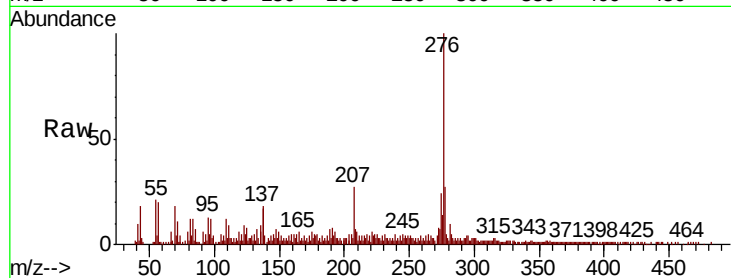
Tot Ion: 276 Resp: 177480

Ion Ratio Lower Upper

276 100

277 26.7 19.8 29.8

138 16.9 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

