

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG051120\
 Data File : BG045320.D
 Acq On : 12 May 2020 8:03
 Operator : CG/JU
 Sample : L2540-04 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 HAR-STOCK

Quant Time: May 12 08:39:45 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 11 13:27:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.98	152	86490	20.00	ng	0.00
21) Naphthalene-d8	10.79	136	352915	20.00	ng	0.00
39) Acenaphthene-d10	14.62	164	244214	20.00	ng	0.00
64) Phenanthrene-d10	17.37	188	483730	20.00	ng	0.00
76) Chrysene-d12	21.63	240	410453	20.00	ng	0.00
87) Perylene-d12	24.80	264	467826	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.55	112	36119	6.89	ng	0.00
7) Phenol-d6	7.14	99	54205	6.96	ng	0.00
23) Nitrobenzene-d5	9.14	82	38580	4.99	ng	0.00
42) 2,4,6-Tribromophenol	16.11	330	25411	6.74	ng	0.00
45) 2-Fluorobiphenyl	13.24	172	98825	5.93	ng	0.00
79) Terphenyl-d14	19.98	244	125089	6.64	ng	0.00

Target Compounds

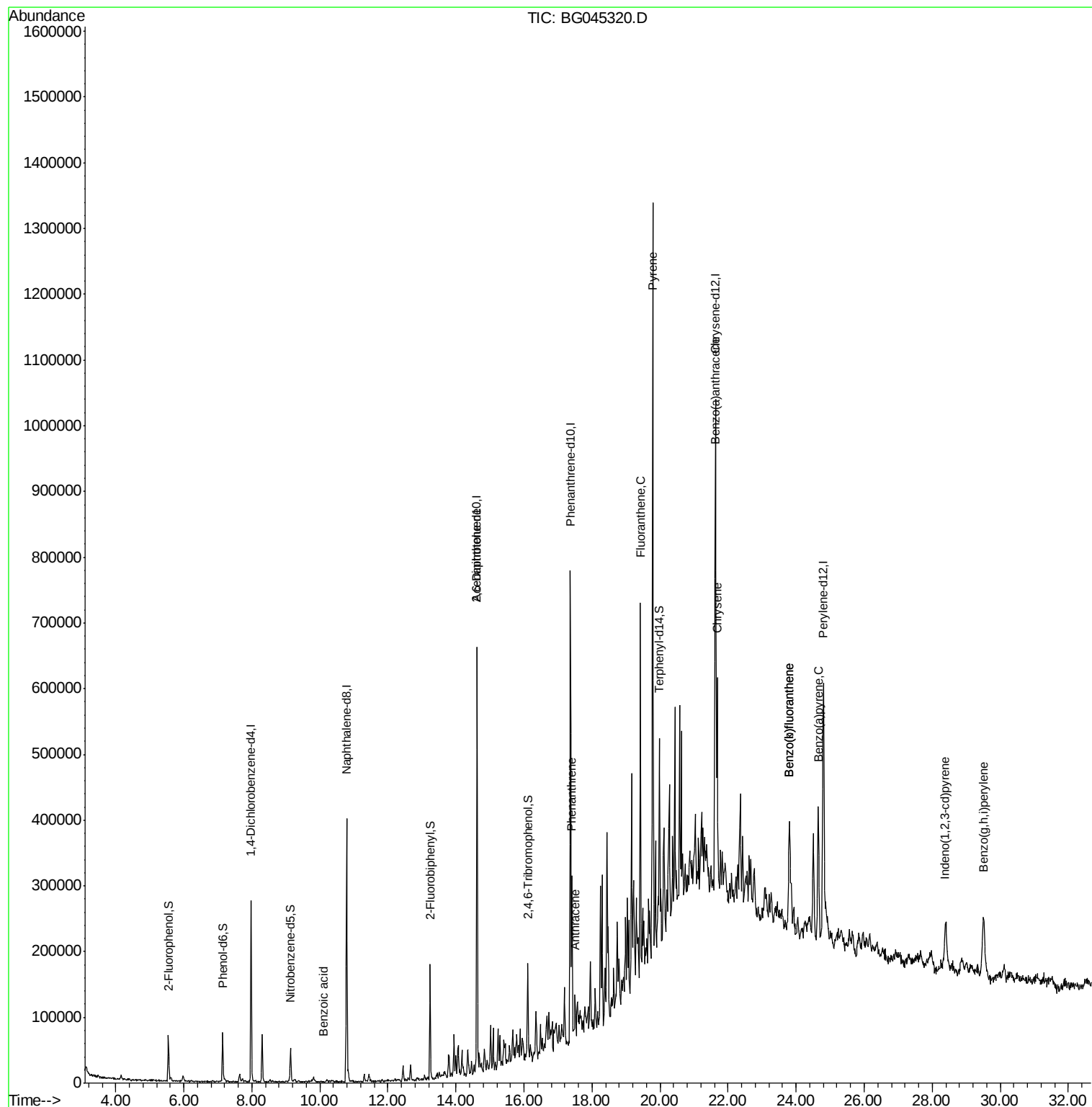
					Qvalue	
9) Benzaldehyde	7.11	77	122	Below Cal	#	28
32) Benzoic acid	10.10	122	64	6.386 ng	#	1
51) 2,6-Dinitrotoluene	14.62	165	34907	7.848 ng	#	27
69) Atrazine	16.84	200	73	Below Cal	#	1
71) Phenanthrene	17.41	178	161111	6.481 ng		96
72) Anthracene	17.50	178	50727	2.034 ng		98
74) Di-n-butylphthalate	18.33	149	458	Below Cal	#	54
75) Fluoranthene	19.42	202	318015	5.463 ng		98
77) Benzidine	19.57	184	628	Below Cal	#	1
78) Pyrene	19.78	202	764695	27.024 ng		97
81) Benzo(a)anthracene	21.61	228	226941	8.531 ng		96
83) Chrysene	21.68	228	230432	9.015 ng		97
86) Indeno(1,2,3-cd)pyrene	28.39	276	135037	3.979 ng	#	93
88) Benzo(b)fluoranthene	23.80	252	217806	7.433 ng		95
89) Benzo(k)fluoranthene	23.80	252	217806	7.815 ng		95
90) Benzo(a)pyrene	24.65	252	245803	8.884 ng		100
92) Benzo(a,h,i)perylene	29.50	276	200732	7.182 ng		96

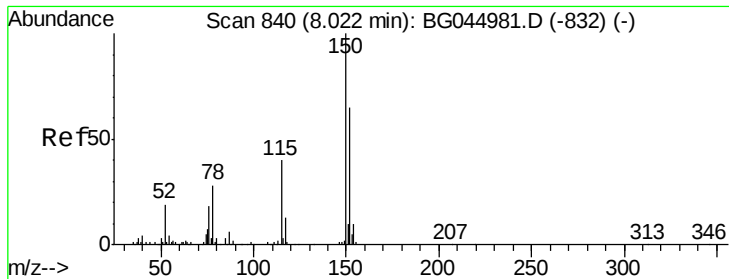
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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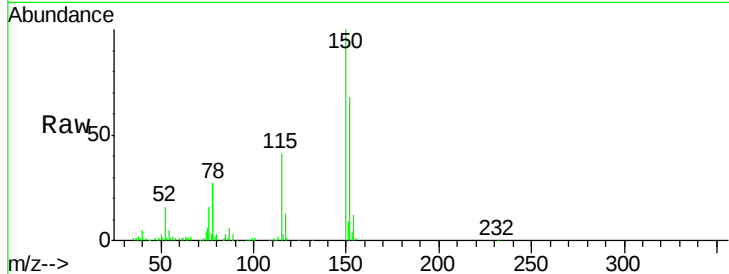


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.98 min Scan# 832
 Delta R.T. -0.00 min
 Lab File: BG045320.D
 Acq: 12 May 2020 8:03

Instrument :
 BNA_G
 ClientSampleId :
 HAR-STOCK

Tot Ion	Ratio	Lower	Upper
152	100		
150	147.9	123.6	185.4
115	60.7	49.1	73.7

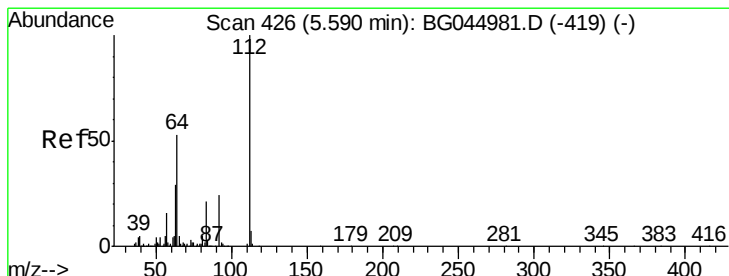
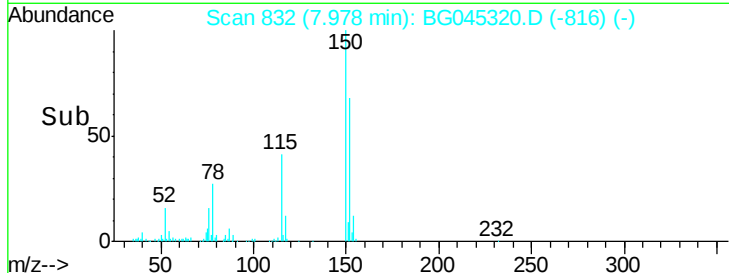
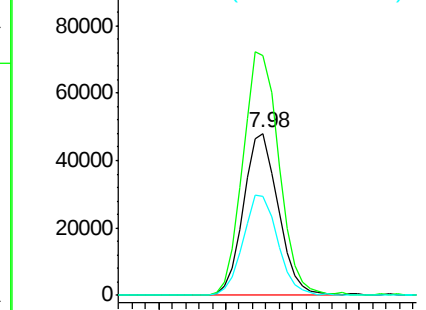


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

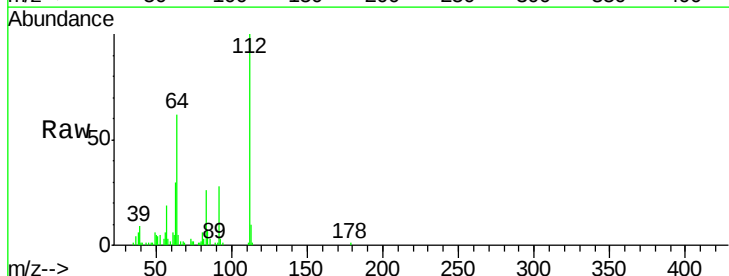
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
 Concen: 6.894 ng
 RT: 5.55 min Scan# 418
 Delta R.T. -0.00 min
 Lab File: BG045320.D
 Acq: 12 May 2020 8:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.4	42.4	63.6
63	30.4	23.1	34.7

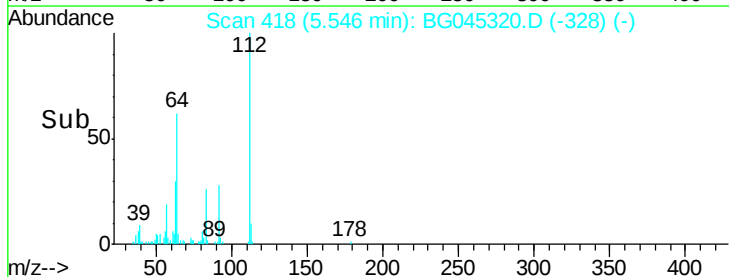
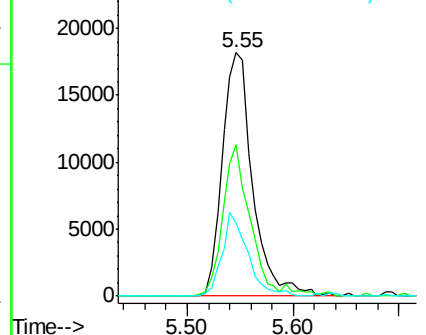


Abundance

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: 6.964 ng

RT: 7.14 min Scan# 689

Delta R.T. -0.01 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

Instrument :

BNA_G

ClientSampleId :

HAR-STOCK

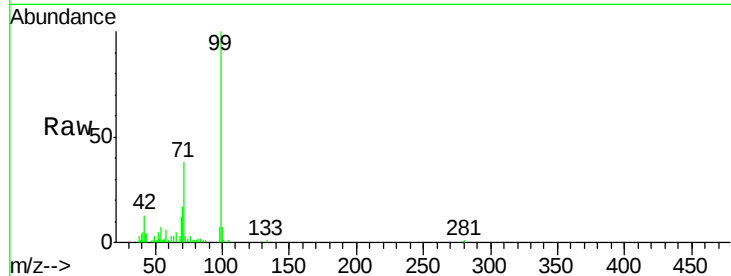
Tot Ion: 99 Resp: 54205

Ion Ratio Lower Upper

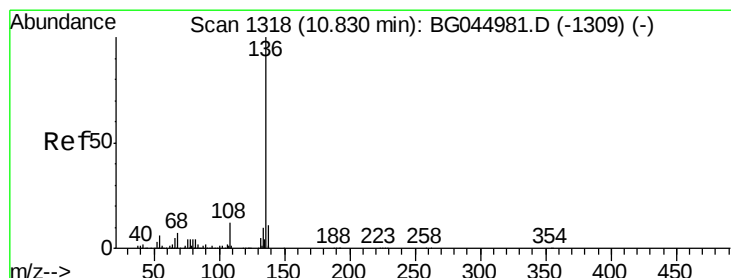
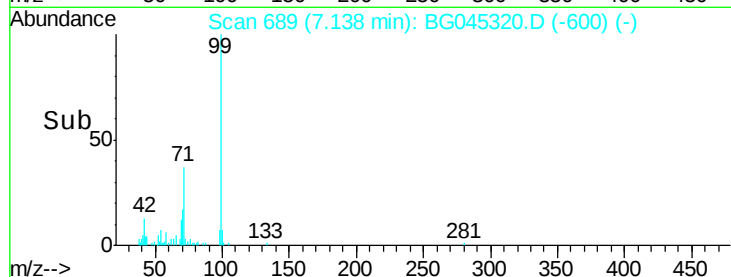
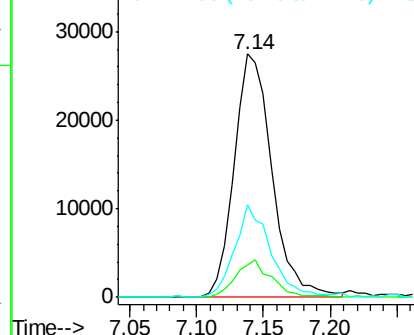
99 100

42 13.1 11.3 16.9

71 37.9 28.3 42.5



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.79 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

Tgt Ion: 136 Resp: 352915

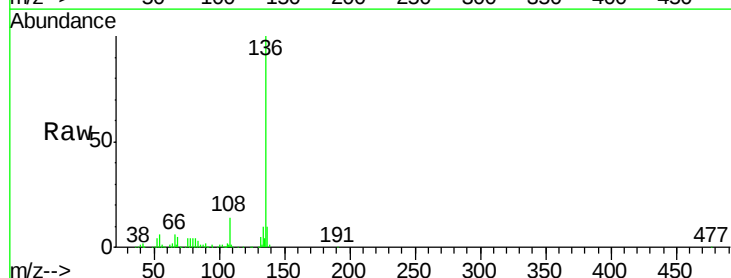
Ion Ratio Lower Upper

136 100

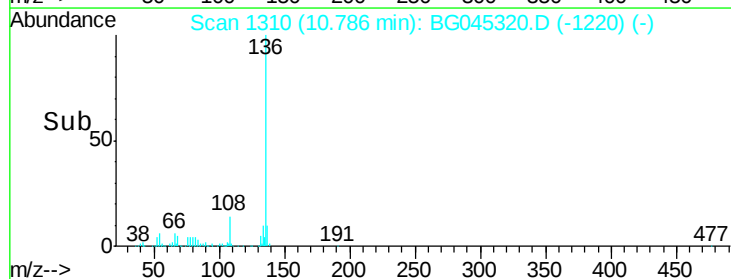
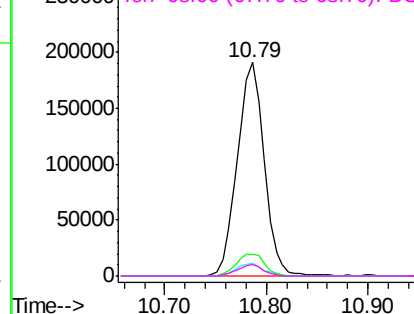
137 10.3 8.6 13.0

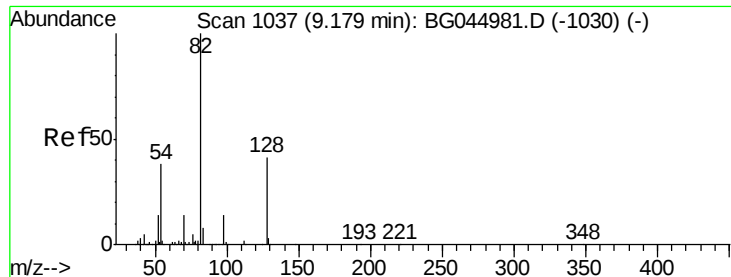
54 5.9 4.8 7.2

68 5.2 5.2 7.8#



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

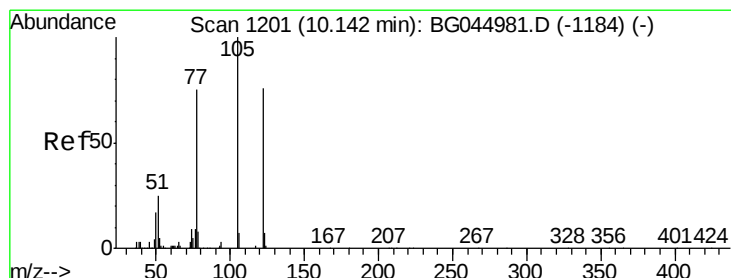
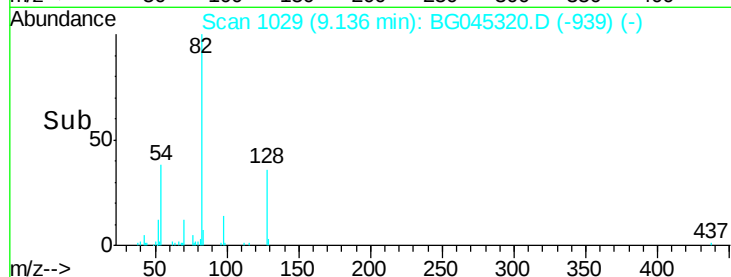
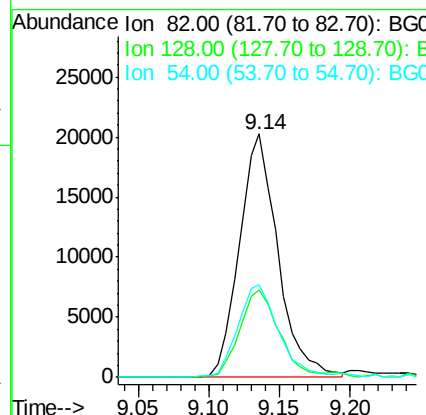
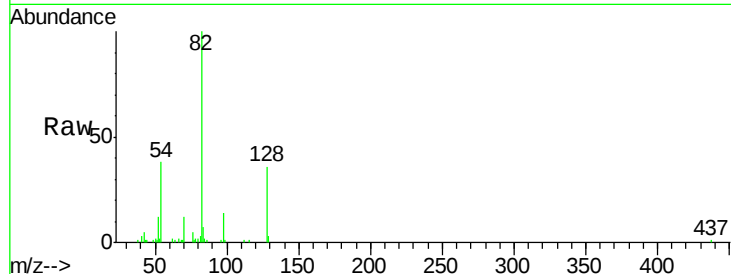




#23
 Nitrobenzene-d5
 Concen: 4.988 ng
 RT: 9.14 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: BG045320.D
 Acq: 12 May 2020 8:03

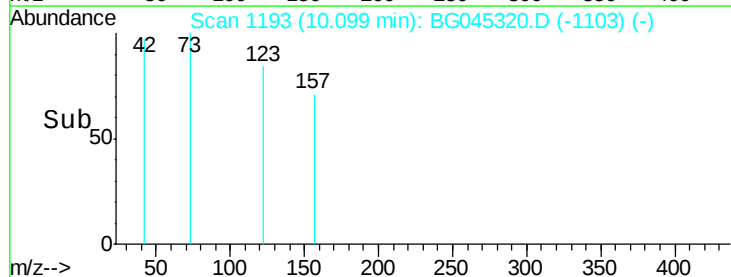
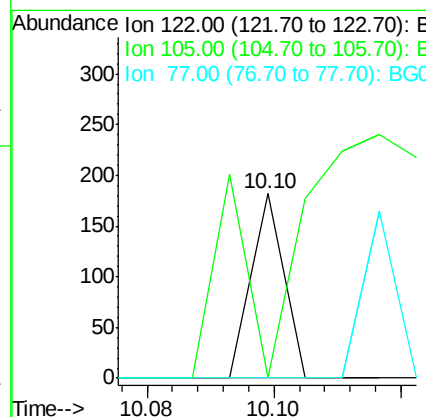
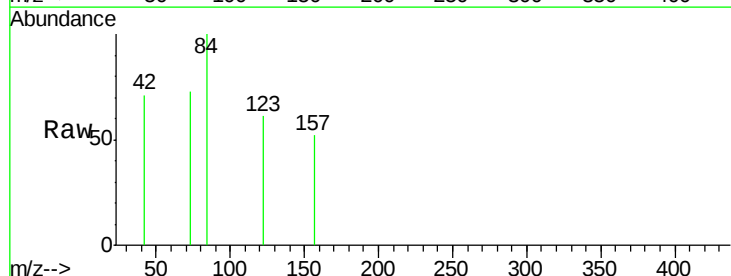
Instrument :
 BNA_G
 ClientSampleId :
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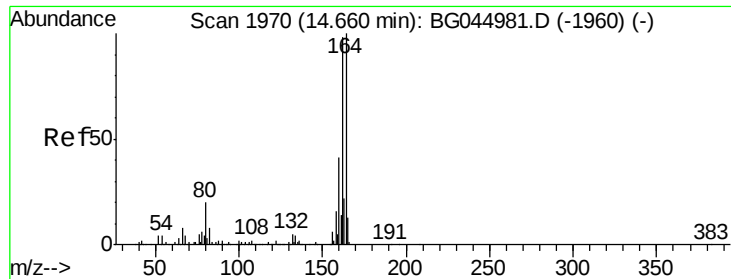
Tot Ion	82	Resp	38580
Ion Ratio	Lower	Upper	
82	100		
128	35.8	33.0	49.4
54	38.3	30.4	45.6



#32
 Benzoic acid
 Concen: 6.386 ng
 RT: 10.10 min Scan# 1193
 Delta R.T. -0.00 min
 Lab File: BG045320.D
 Acq: 12 May 2020 8:03

Tgt Ion	122	Resp	64
Ion Ratio	Lower	Upper	
122	100		
105	0.0	108.4	148.4#
77	0.0	78.8	118.8#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.62 min Scan# 1962

Delta R.T. -0.01 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

Instrument :

BNA_G

ClientSampleId :

HAR-STOCK

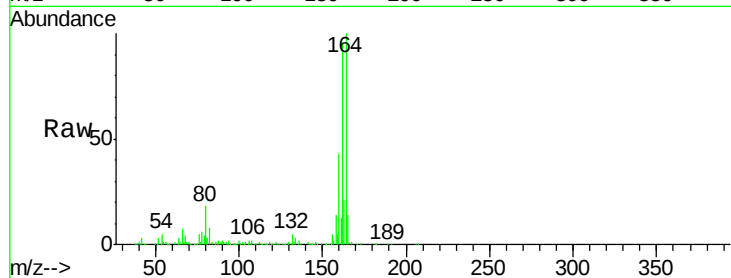
Tot Ion:164 Resp: 244214

Ion Ratio Lower Upper

164 100

162 96.1 78.7 118.1

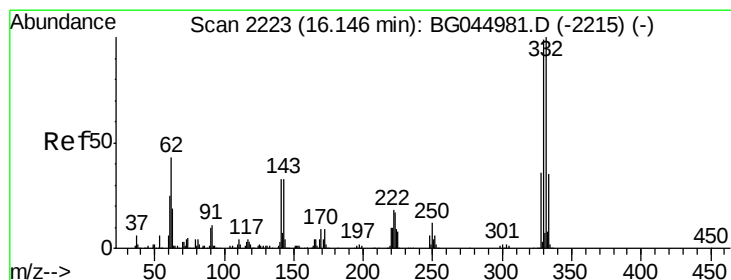
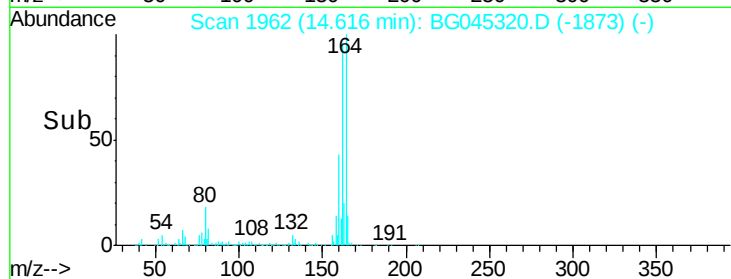
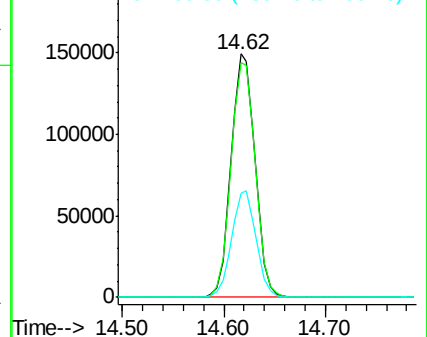
160 42.9 32.8 49.2



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: 6.735 ng

RT: 16.11 min Scan# 2216

Delta R.T. -0.01 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

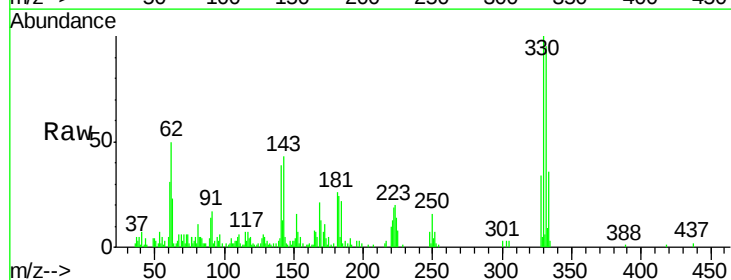
Tgt Ion:330 Resp: 25411

Ion Ratio Lower Upper

330 100

332 95.5 79.1 118.7

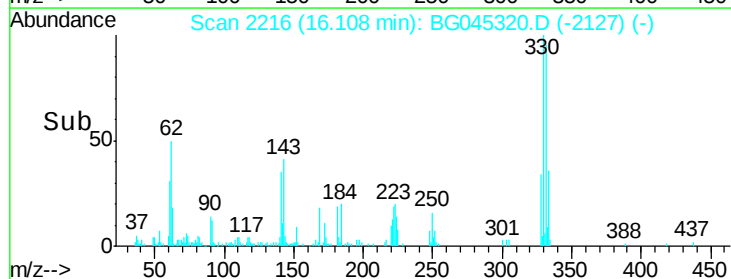
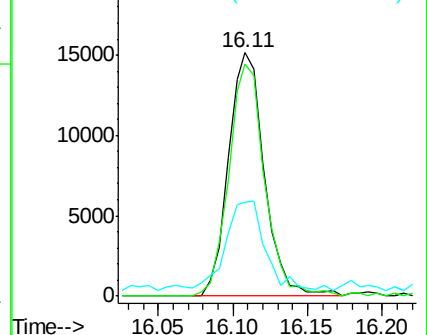
141 41.0 27.1 40.7#

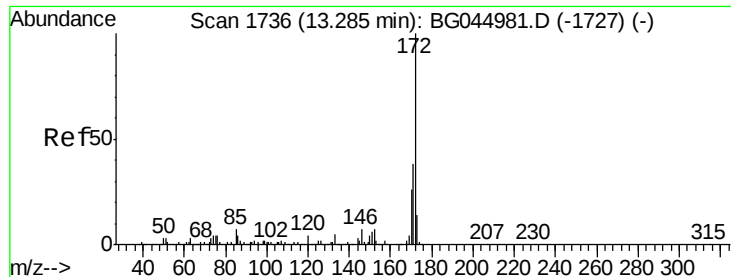


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

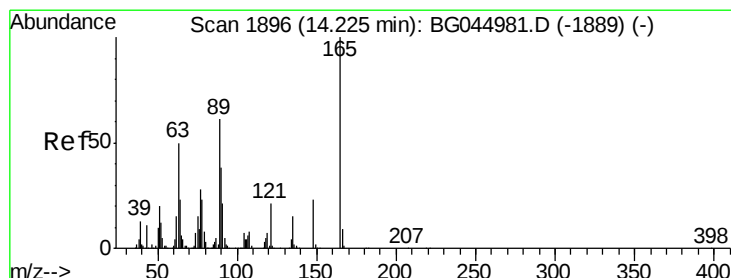
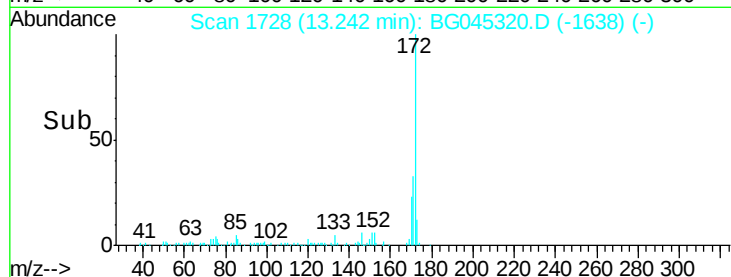
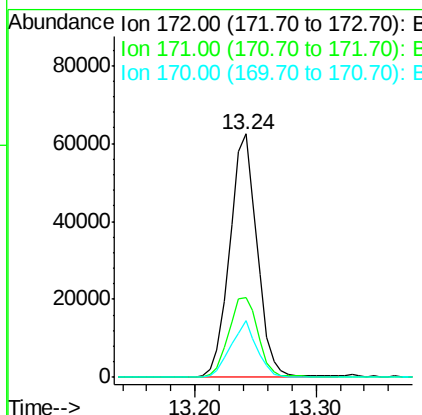
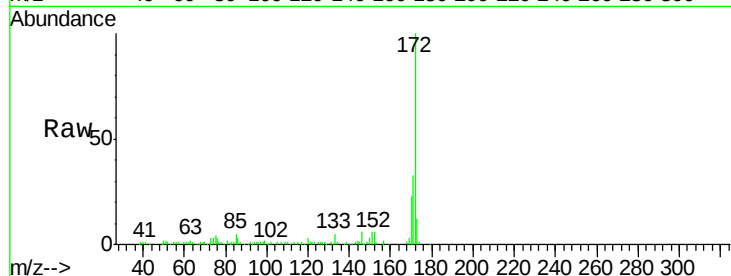




#45
 2-Fluorobiphenyl
 Concen: 5.934 ng
 RT: 13.24 min Scan# 1728
 Delta R.T. -0.00 min
 Lab File: BG045320.D
 Acq: 12 May 2020 8:03

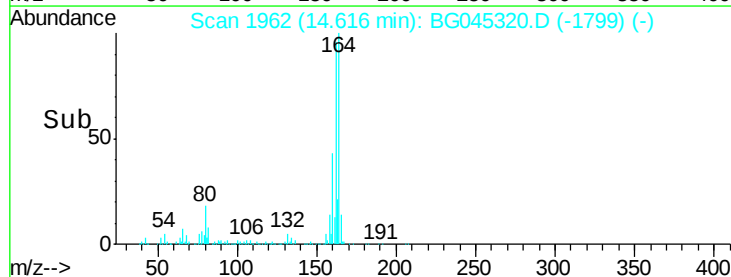
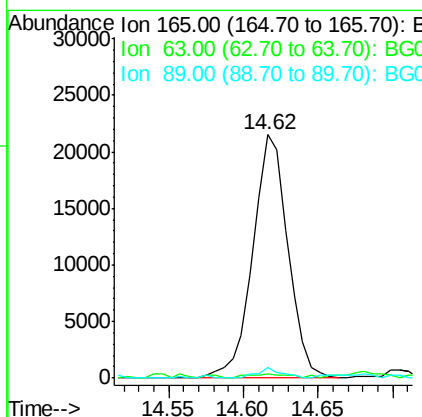
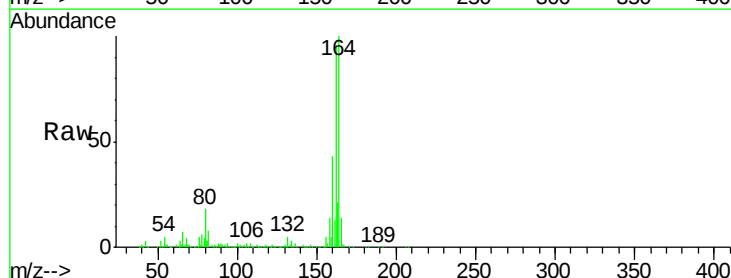
Instrument :
 BNA_G
 ClientSampleId :
 HAR-STOCK

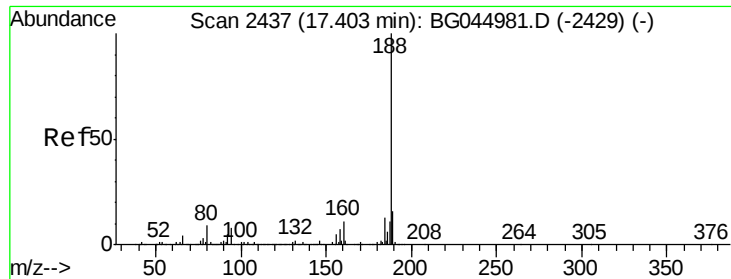
Tot Ion:172	Resp:	98825
Ion	Ratio	Lower Upper
172	100	
171	32.9	30.6 46.0
170	23.4	20.5 30.7



#51
 2,6-Dinitrotoluene
 Concen: 7.848 ng
 RT: 14.62 min Scan# 1962
 Delta R.T. 0.43 min
 Lab File: BG045320.D
 Acq: 12 May 2020 8:03

Tgt Ion:165	Resp:	34907
Ion	Ratio	Lower Upper
165	100	
63	1.5	40.4 60.6#
89	4.1	49.1 73.7#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.37 min Scan# 2430

Delta R.T. -0.00 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

Instrument :

BNA_G

ClientSampleId :

HAR-STOCK

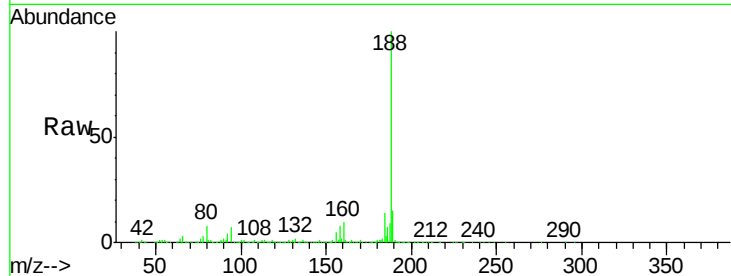
Tot Ion:188 Resp: 483730

Ion Ratio Lower Upper

188 100

94 7.3 6.2 9.4

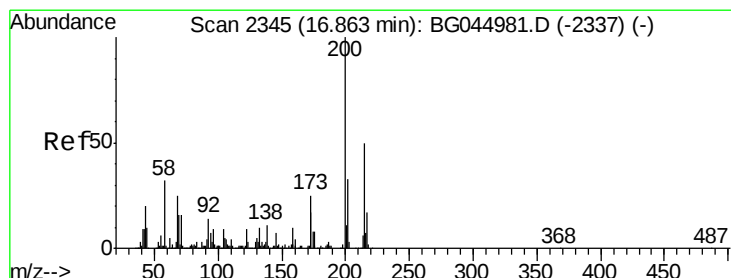
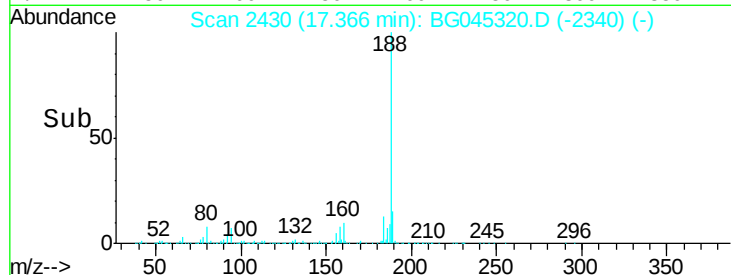
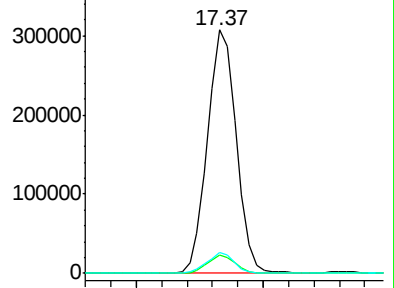
80 8.4 7.0 10.6



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



#69

Atrazine

Concen: Below Cal

RT: 16.84 min Scan# 2341

Delta R.T. 0.01 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

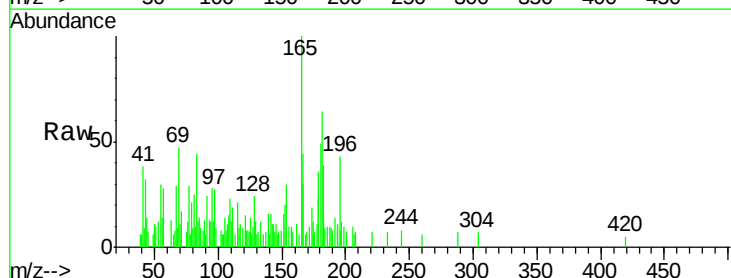
Tgt Ion:200 Resp: 73

Ion Ratio Lower Upper

200 100

173 257.0 4.5 44.5#

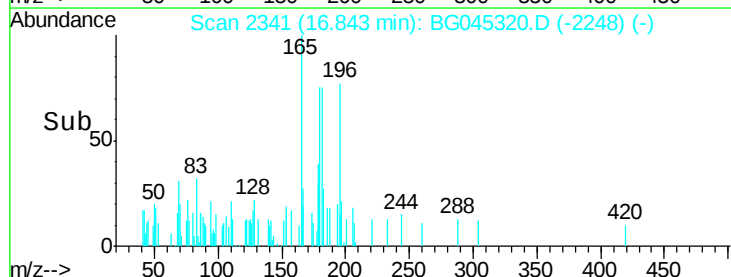
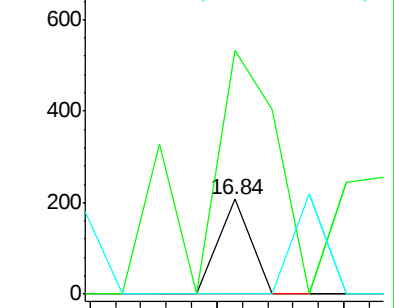
215 0.0 30.0 70.0#

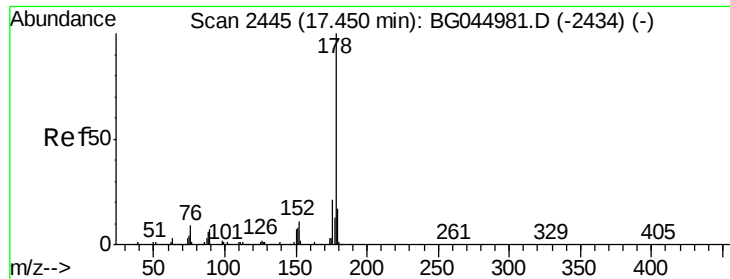


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

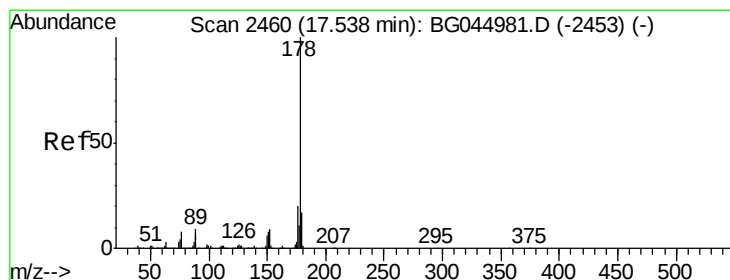
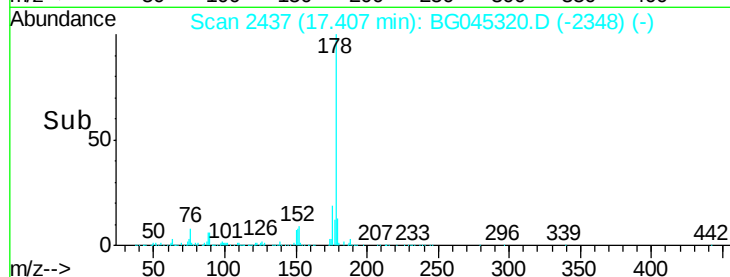
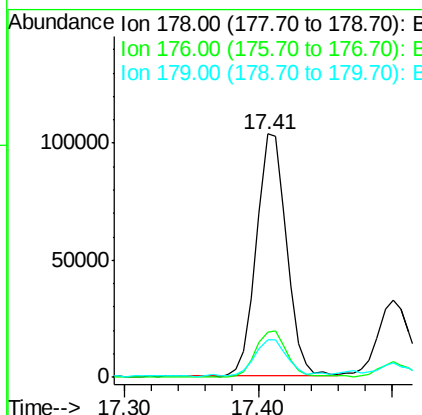
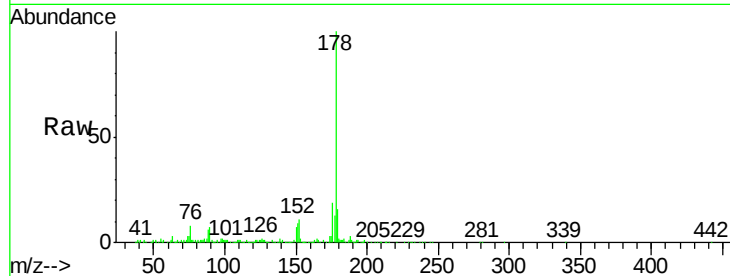




#71
Phenanthrene
Concen: 6.481 ng
RT: 17.41 min Scan# 2437
Delta R.T. -0.01 min
Lab File: BG045320.D
Acq: 12 May 2020 8:03

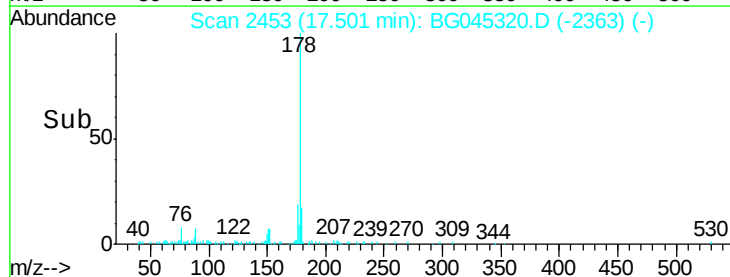
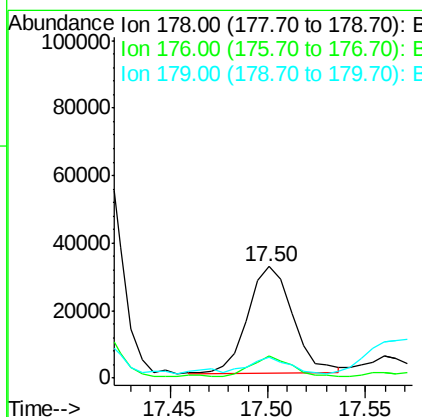
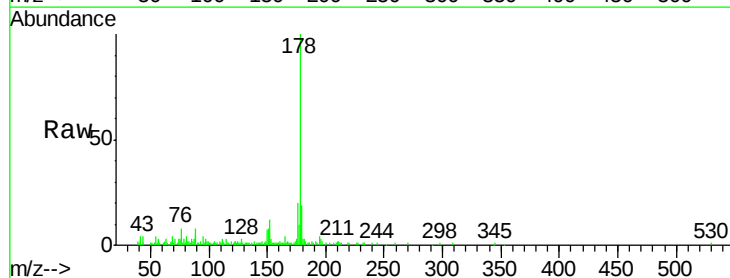
Instrument :
BNA_G
ClientSampleId :
HAR-STOCK

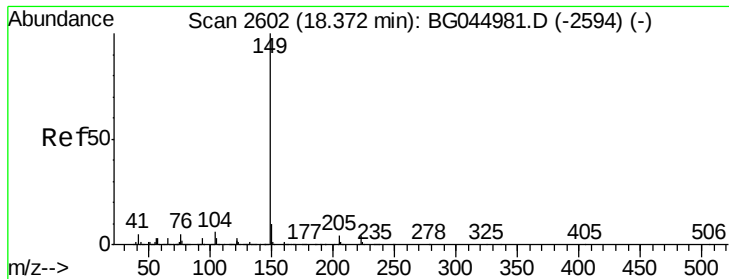
Tot Ion:178 Resp: 161111
Ion Ratio Lower Upper
178 100
176 18.5 16.8 25.2
179 15.6 13.2 19.8



#72
Anthracene
Concen: 2.034 ng
RT: 17.50 min Scan# 2453
Delta R.T. -0.00 min
Lab File: BG045320.D
Acq: 12 May 2020 8:03

Tgt Ion:178 Resp: 50727
Ion Ratio Lower Upper
178 100
176 19.9 16.0 24.0
179 18.7 13.6 20.4

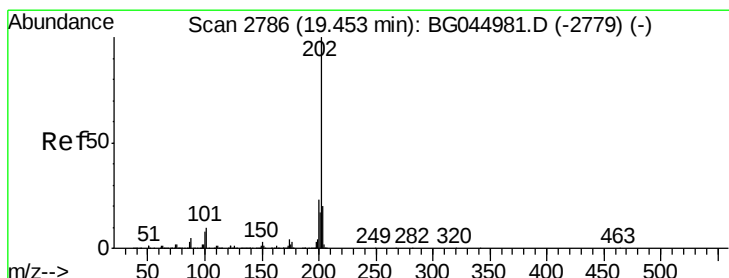
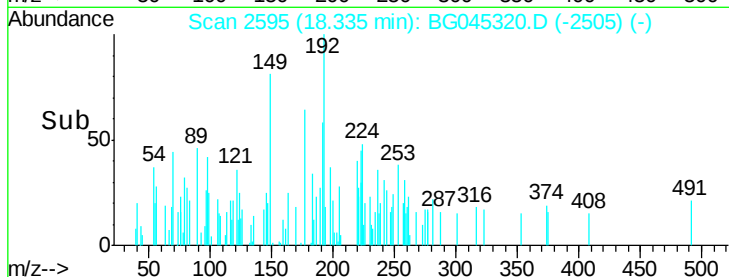
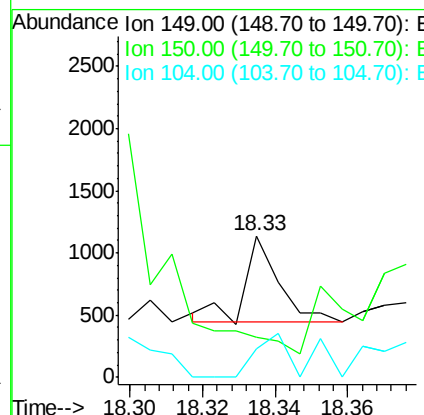
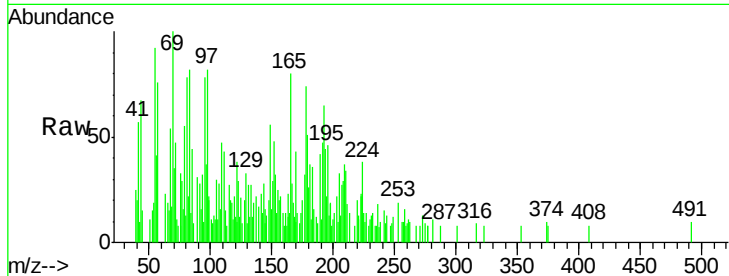




#74
Di-n-butylphthalate
Concen: Below Cal
RT: 18.33 min Scan# 2595
Delta R.T. -0.00 min
Lab File: BG045320.D
Acq: 12 May 2020 8:03

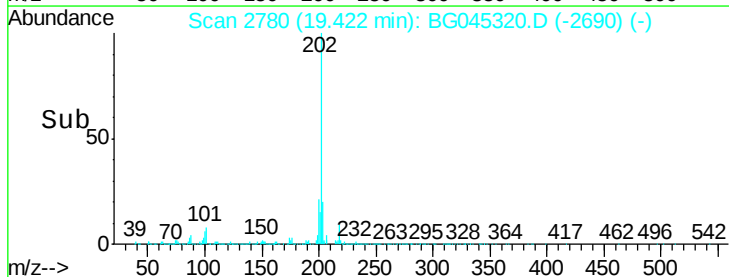
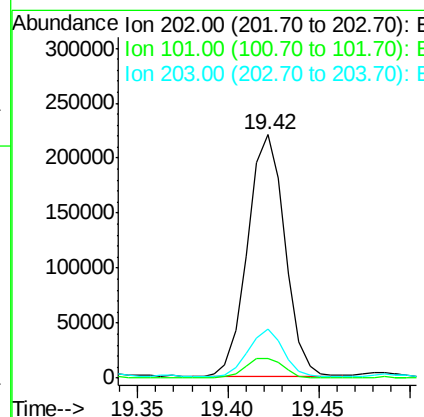
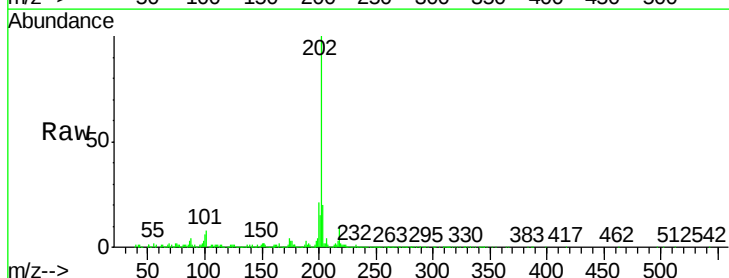
Instrument :
BNA_G
ClientSampleId :
HAR-STOCK

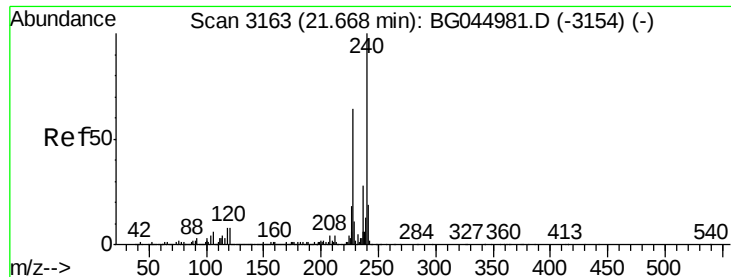
Tot Ion:149 Resp: 458
Ion Ratio Lower Upper
149 100
150 28.0 8.2 12.2#
104 20.1 4.8 7.2#



#75
Fluoranthene
Concen: 5.463 ng
RT: 19.42 min Scan# 2780
Delta R.T. -0.00 min
Lab File: BG045320.D
Acq: 12 May 2020 8:03

Tgt Ion:202 Resp: 318015
Ion Ratio Lower Upper
202 100
101 8.1 0.0 29.6
203 20.3 0.0 39.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.63 min Scan# 3156

Delta R.T. -0.01 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

Instrument :

BNA_G

ClientSampleId :

HAR-STOCK

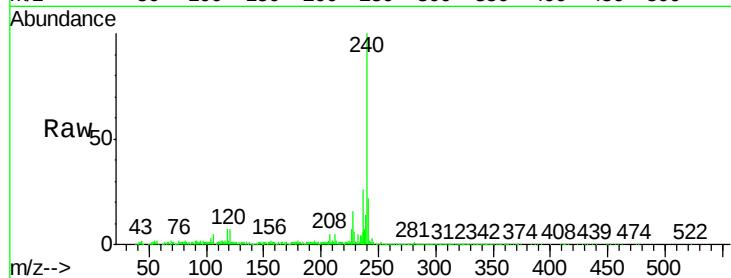
Tot Ion:240 Resp: 410453

Ion Ratio Lower Upper

240 100

120 7.3 6.6 10.0

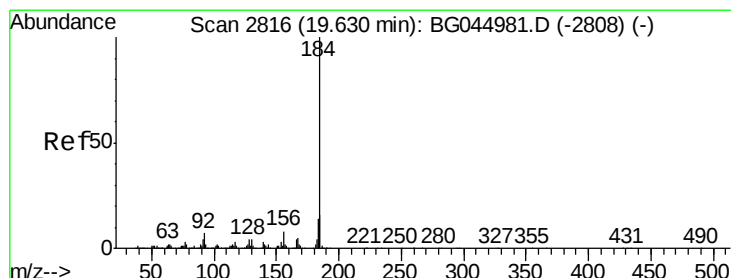
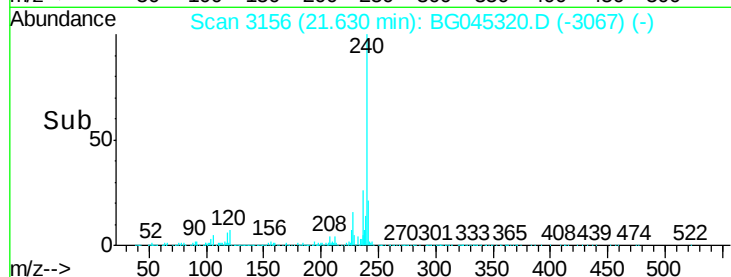
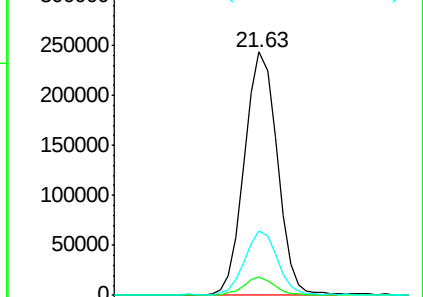
236 26.5 22.2 33.2



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



#77

Benzidine

Concen: Below Cal

RT: 19.57 min Scan# 2806

Delta R.T. -0.03 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

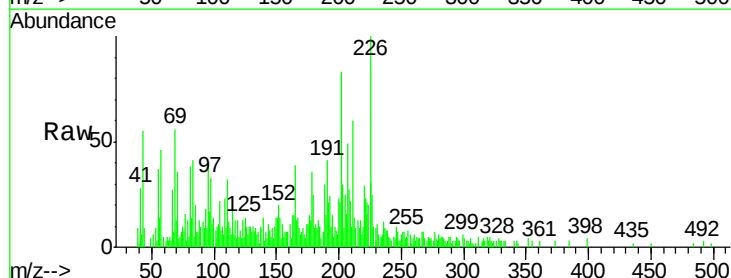
Tgt Ion:184 Resp: 628

Ion Ratio Lower Upper

184 100

185 93.4 12.6 19.0#

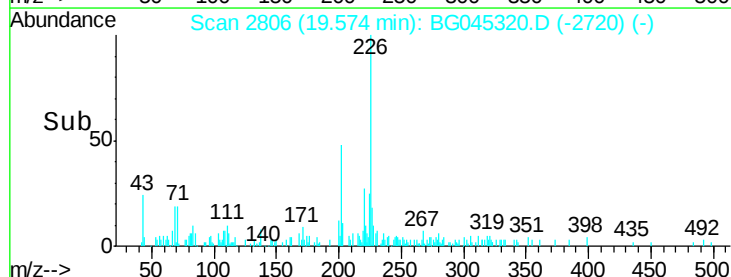
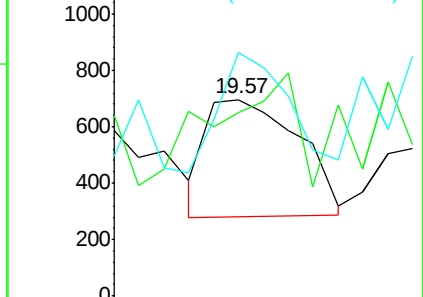
183 124.0 11.3 16.9#

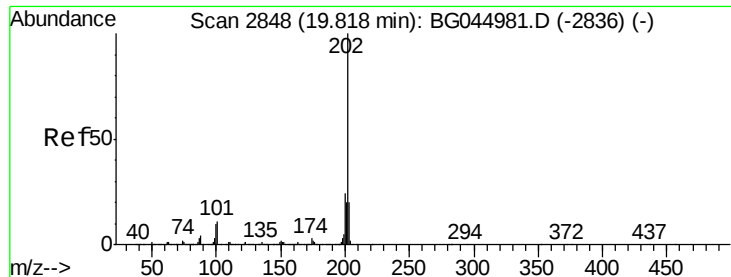


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Pvrene

Concen: 27.024 ng

RT: 19.78 min Scan# 2841

Delta R.T. -0.00 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

Instrument :

BNA_G

ClientSampleId :

HAR-STOCK

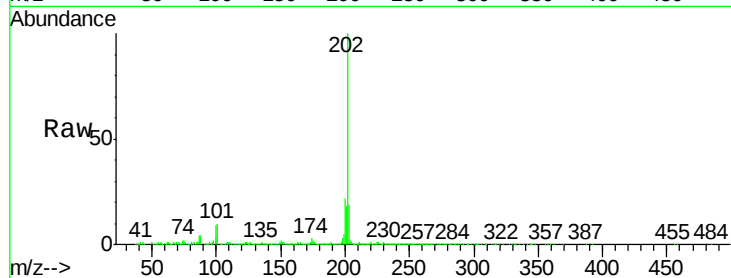
Tot Ion:202 Resp: 764695

Ion Ratio Lower Upper

202 100

200 22.1 19.0 28.6

203 19.3 16.1 24.1

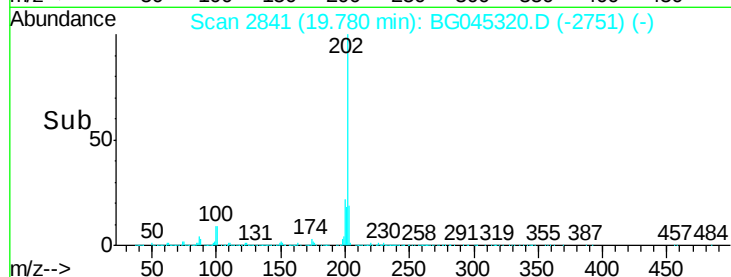


Abundance Ion 202.00 (201.70 to 202.70): E

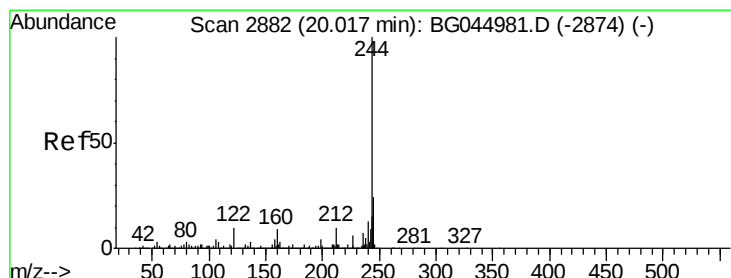
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

19.78



Time-->



#79

Terphenyl-d14

Concen: 6.642 ng

RT: 19.98 min Scan# 2875

Delta R.T. -0.01 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

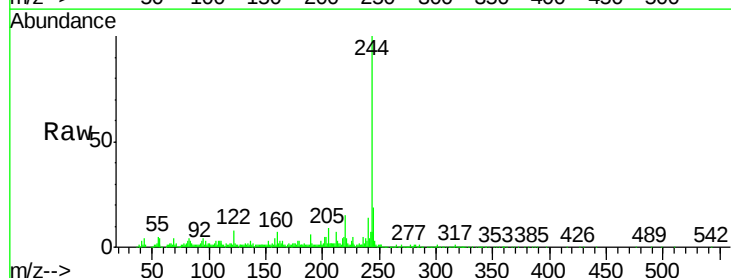
Tgt Ion:244 Resp: 125089

Ion Ratio Lower Upper

244 100

212 6.6 7.9 11.9#

122 7.9 7.7 11.5

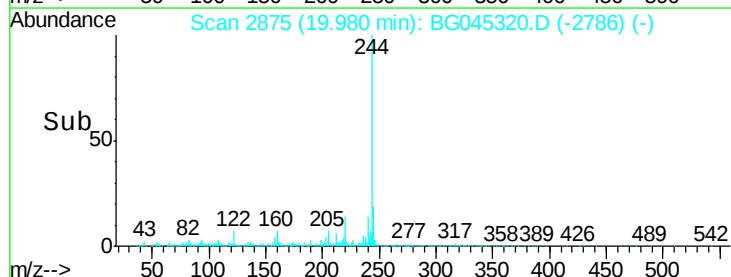


Abundance Ion 244.00 (243.70 to 244.70): E

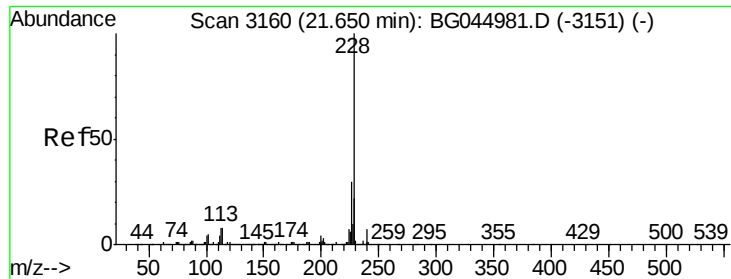
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

19.98



Time-->



#81

Benzo(a)anthracene

Concen: 8.531 ng

RT: 21.61 min Scan# 3153

Delta R.T. -0.00 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

Instrument :

BNA_G

ClientSampleId :

HAR-STOCK

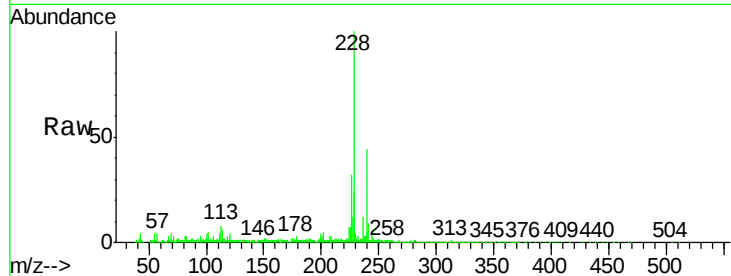
Tot Ion:228 Resp: 226941

Ion Ratio Lower Upper

228 100

226 32.1 24.0 36.0

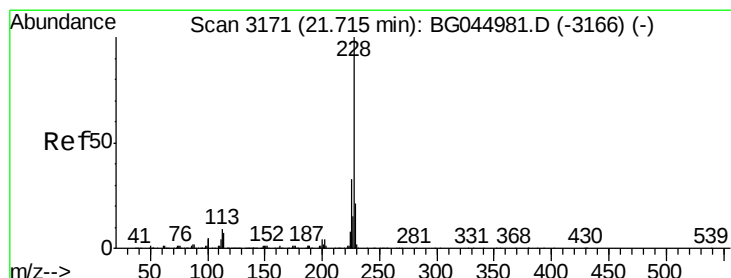
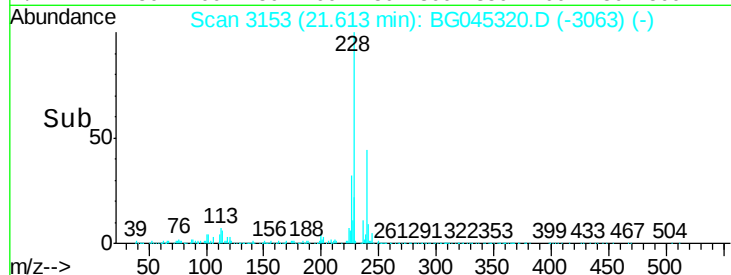
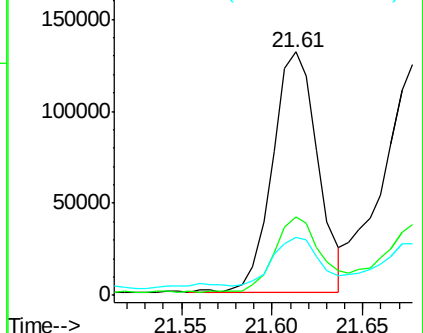
229 24.1 17.5 26.3



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



#83

Chrysene

Concen: 9.015 ng

RT: 21.68 min Scan# 3164

Delta R.T. -0.00 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

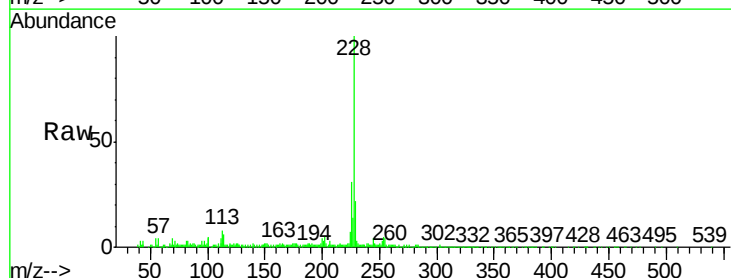
Tgt Ion:228 Resp: 230432

Ion Ratio Lower Upper

228 100

226 30.8 26.2 39.4

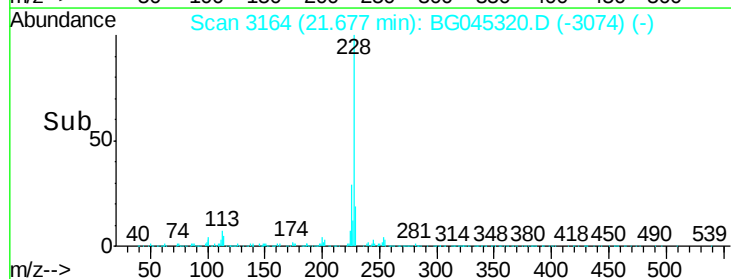
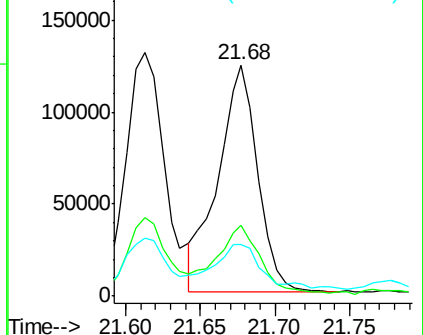
229 22.2 17.0 25.6

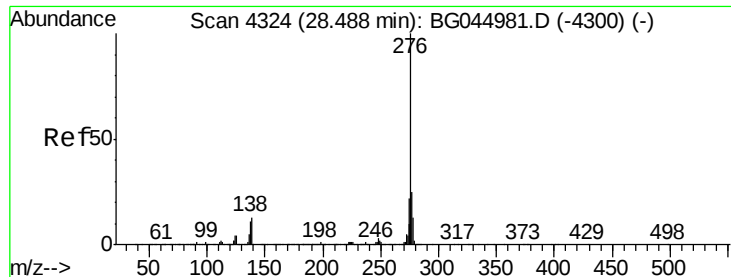


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

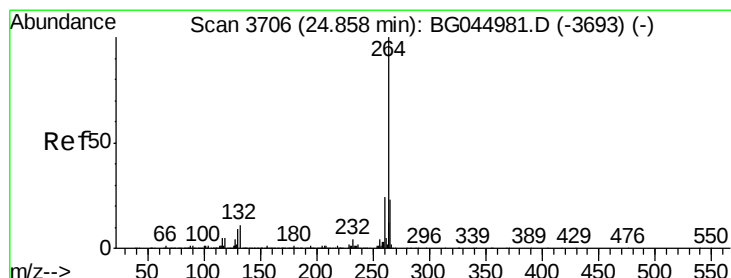
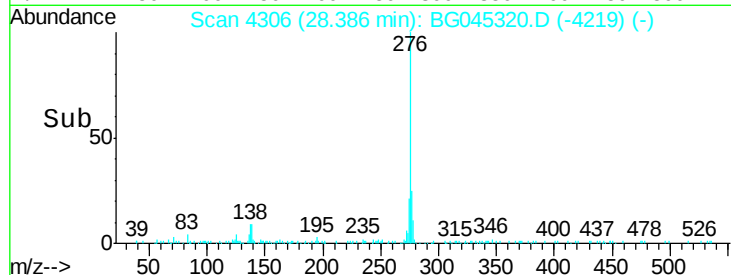
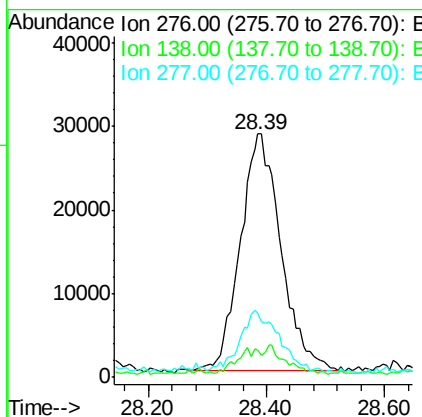
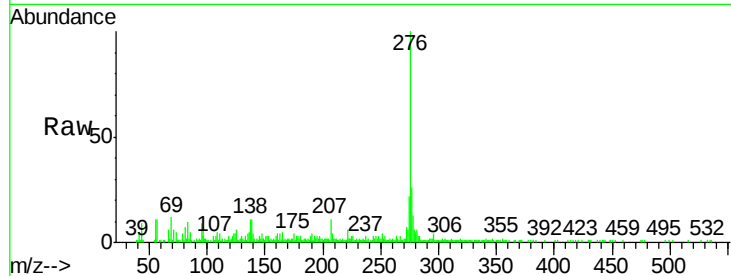




#86
Indeno(1,2,3-cd)pyrene
Concen: 3.979 ng
RT: 28.39 min Scan# 4306
Delta R.T. -0.02 min
Lab File: BG045320.D
Acq: 12 May 2020 8:03

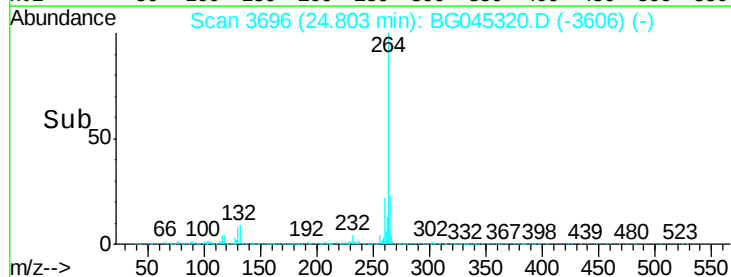
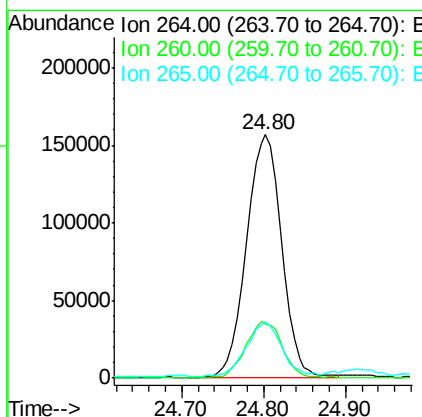
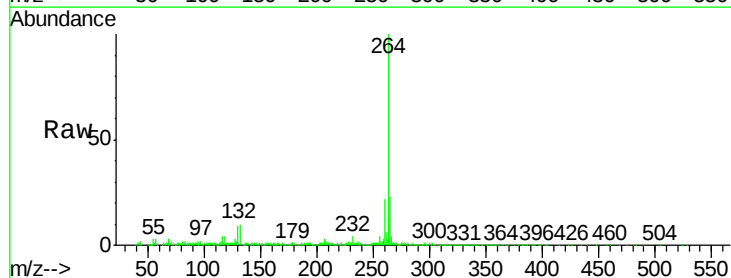
Instrument :
BNA_G
ClientSampleId :
HAR-STOCK

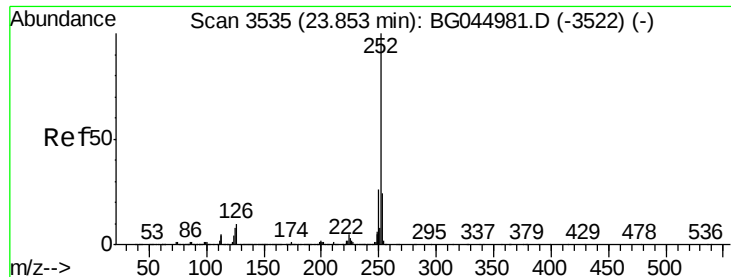
Tot Ion:276 Resp: 135037
Ion Ratio Lower Upper
276 100
138 4.0 9.6 14.4#
277 25.3 20.6 31.0



#87
Perylene-d12
Concen: 20.000 ng
RT: 24.80 min Scan# 3696
Delta R.T. -0.00 min
Lab File: BG045320.D
Acq: 12 May 2020 8:03

Tgt Ion:264 Resp: 467826
Ion Ratio Lower Upper
264 100
260 22.5 19.2 28.8
265 23.4 19.0 28.4

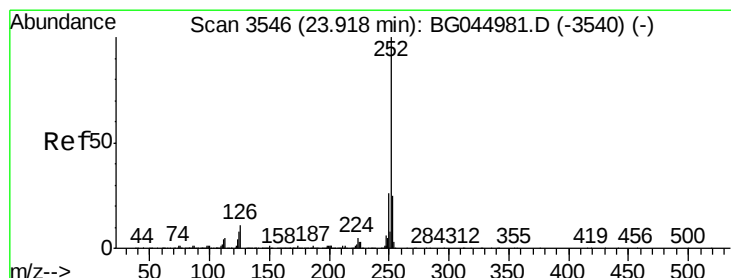
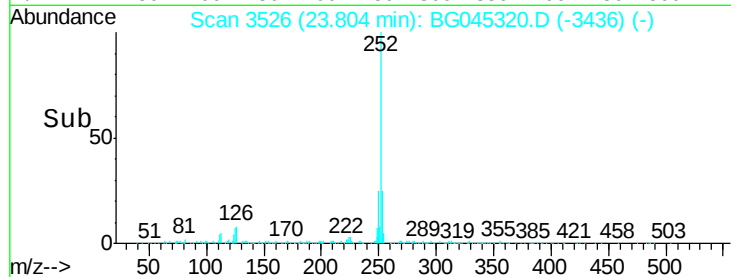
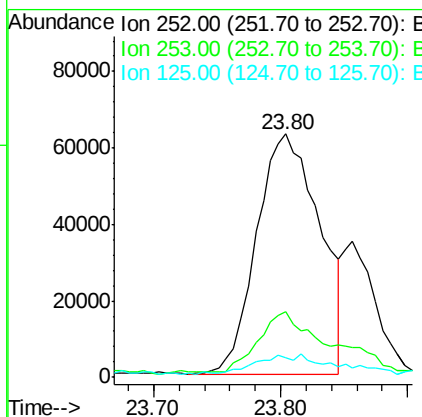
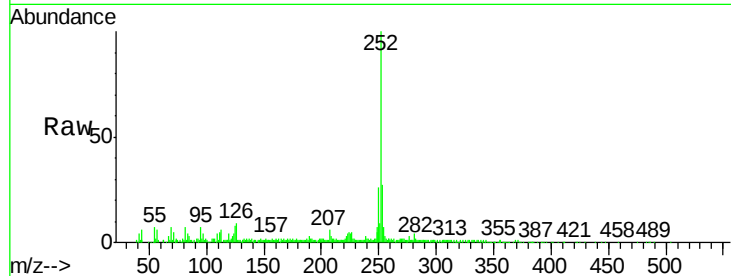




#88
Benzo(b)fluoranthene
Concen: 7.433 ng
RT: 23.80 min Scan# 3526
Delta R.T. -0.00 min
Lab File: BG045320.D
Acq: 12 May 2020 8:03

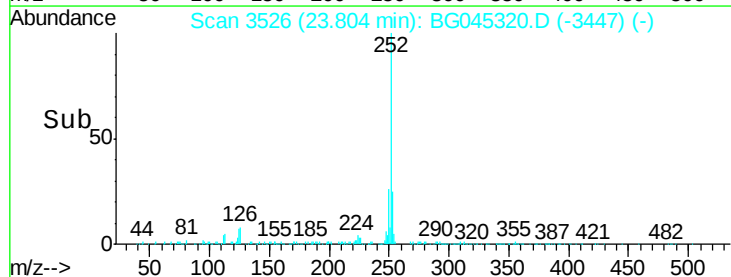
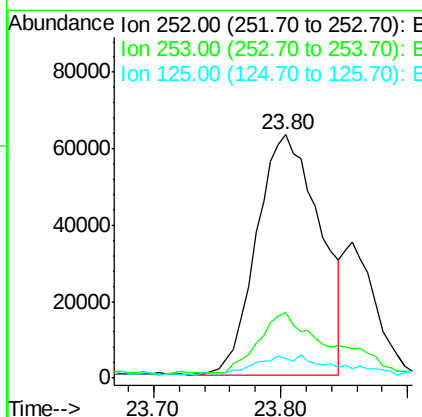
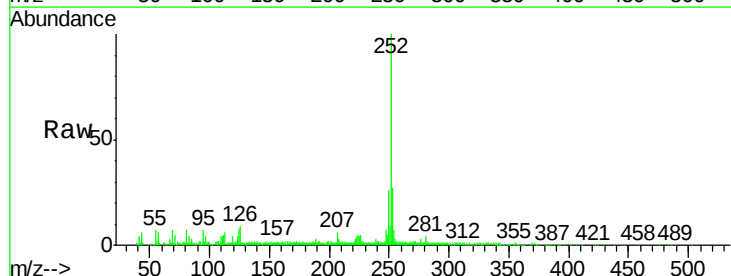
Instrument :
BNA_G
ClientSampleId :
HAR-STOCK

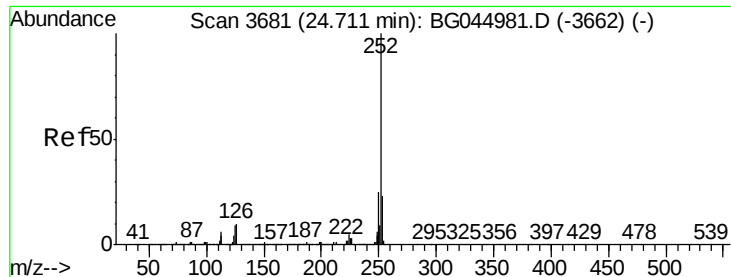
Tot Ion:252	Resp:	217806
Ion Ratio	Lower	Upper
252	100	
253	26.7	18.8 28.2
125	8.3	6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 7.815 ng
RT: 23.80 min Scan# 3526
Delta R.T. -0.07 min
Lab File: BG045320.D
Acq: 12 May 2020 8:03

Tgt Ion:252	Resp:	217806
Ion Ratio	Lower	Upper
252	100	
253	26.7	19.2 28.8
125	8.3	5.9 8.9





#90

Benzo(a)pyrene

Concen: 8.884 ng

RT: 24.65 min Scan# 3670

Delta R.T. -0.01 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

Instrument :

BNA_G

ClientSampleId :

HAR-STOCK

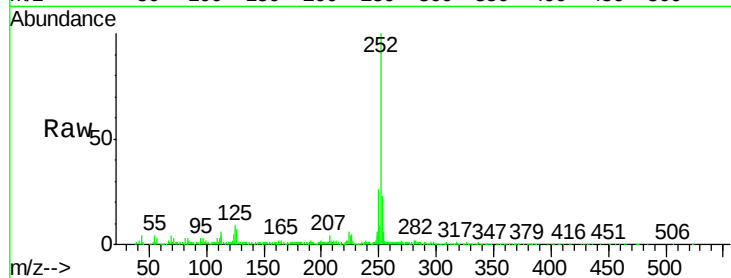
Tot Ion:252 Resp: 245803

Ion Ratio Lower Upper

252 100

253 22.7 18.3 27.5

125 8.8 7.0 10.6



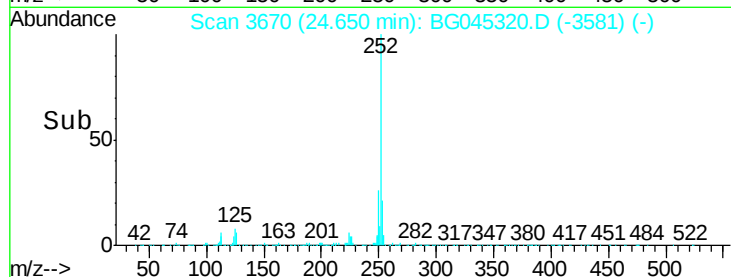
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

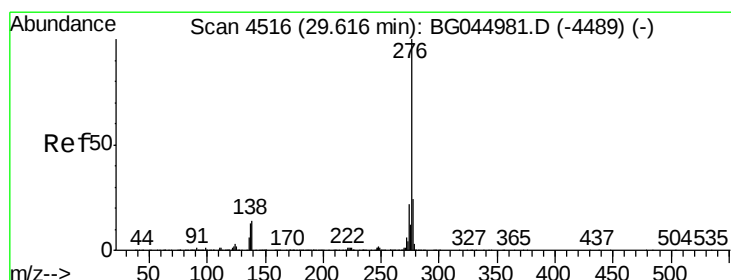
Ion 125.00 (124.70 to 125.70): E

24.65

Time-->



Time-->



#92

Benzo(g,h,i)perylene

Concen: 7.182 ng

RT: 29.50 min Scan# 4496

Delta R.T. -0.03 min

Lab File: BG045320.D

Acq: 12 May 2020 8:03

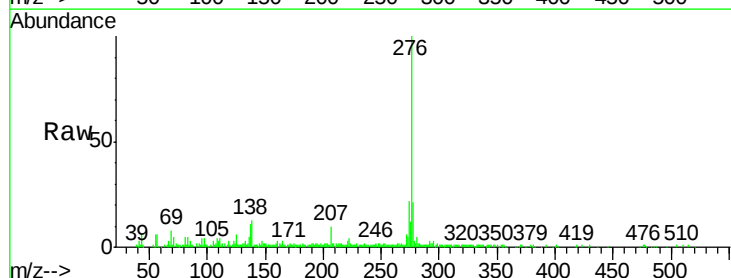
Tgt Ion:276 Resp: 200732

Ion Ratio Lower Upper

276 100

277 21.3 19.3 28.9

138 13.3 11.4 17.2



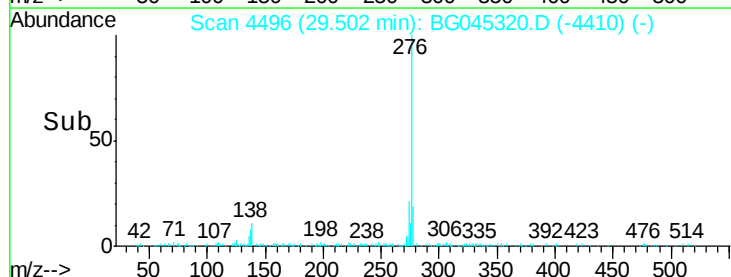
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

29.50

Time-->



Time-->