

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071016\
 Data File : BG022994.D
 Acq On : 10 Jul 2016 10:48
 Operator : UM/SJ
 Sample : H3876-01
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 1A-LOCATION-1-0-5FT

Manual Integrations

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 SOHIL
 7/11/2016 6:47:08 AM

Quant Time: Jul 11 03:52:56 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 07 16:51:07 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.15	152	105896	20.00	ng	0.00
21) Naphthalene-d8	10.98	136	533591	20.00	ng	0.00
38) Acenaphthene-d10	14.80	164	385821	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	859761	20.00	ng	0.00
75) Chrysene-d12	21.85	240	940100	20.00	ng	0.00
86) Perylene-d12	25.21	264	976170	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.69	112	452645	69.91	ng	0.00
7) Phenol-d6	7.30	99	789455	77.85	ng	0.00
23) Nitrobenzene-d5	9.32	82	592636	47.56	ng	0.00
41) 2,4,6-Tribromophenol	16.29	330	387081	55.82	ng	0.00
44) 2-Fluorobiphenyl	13.41	172	1242551	50.73	ng	0.00
78) Terphenyl-d14	20.15	244	1708660	48.47	ng	0.00

Target Compounds

						Qvalue
10) Phenol	7.33	94	24871	2.38	ng	90
20) 3+4-Methylphenols	8.92	107	19139	2.02	ng	89
31) Naphthalene	11.03	128	236156	8.69	ng	99
37) 2-Methylnaphthalene	12.63	142	113514	5.29	ng	91
48) Acenaphthylene	14.52	152	214393	6.09	ng	98
49) Dimethylphthalate	14.24	163	248617	7.89	ng	98
51) Acenaphthene	14.86	154	67063	2.91	ng	# 83
54) Dibenzofuran	15.19	168	248652	7.22	ng	92
57) Fluorene	15.84	166	234472	7.91	ng	100
70) Phenanthrene	17.60	178	2265147	53.76	ng	95
71) Anthracene	17.69	178	431524	10.11	ng	95
72) Carbazole	17.96	167	240397	6.52	ng	99
74) Fluoranthene	19.60	202	2231792	43.16	ng	97
77) Pyrene	19.97	202	1918011	36.31	ng	98
80) Benzo(a)anthracene	21.83	228	1182739	22.49	ng	95
82) Chrysene	21.89	228	1062051	21.53	ng	94
85) Indeno(1,2,3-cd)pyrene	29.06	276	534076	8.49	ng	# 100
87) Benzo(b)fluoranthene	24.14	252	1289091	22.89	ng	# 99
88) Benzo(k)fluoranthene	24.20	252	375199m	7.02	ng	
89) Benzo(a)pyrene	25.05	252	940447	17.42	ng	94
90) Dibenzo(a,h)anthracene	29.08	278	158022m	2.95	ng	
91) Benzo(g,h,i)perylene	30.25	276	466894	8.70	ng	# 95

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

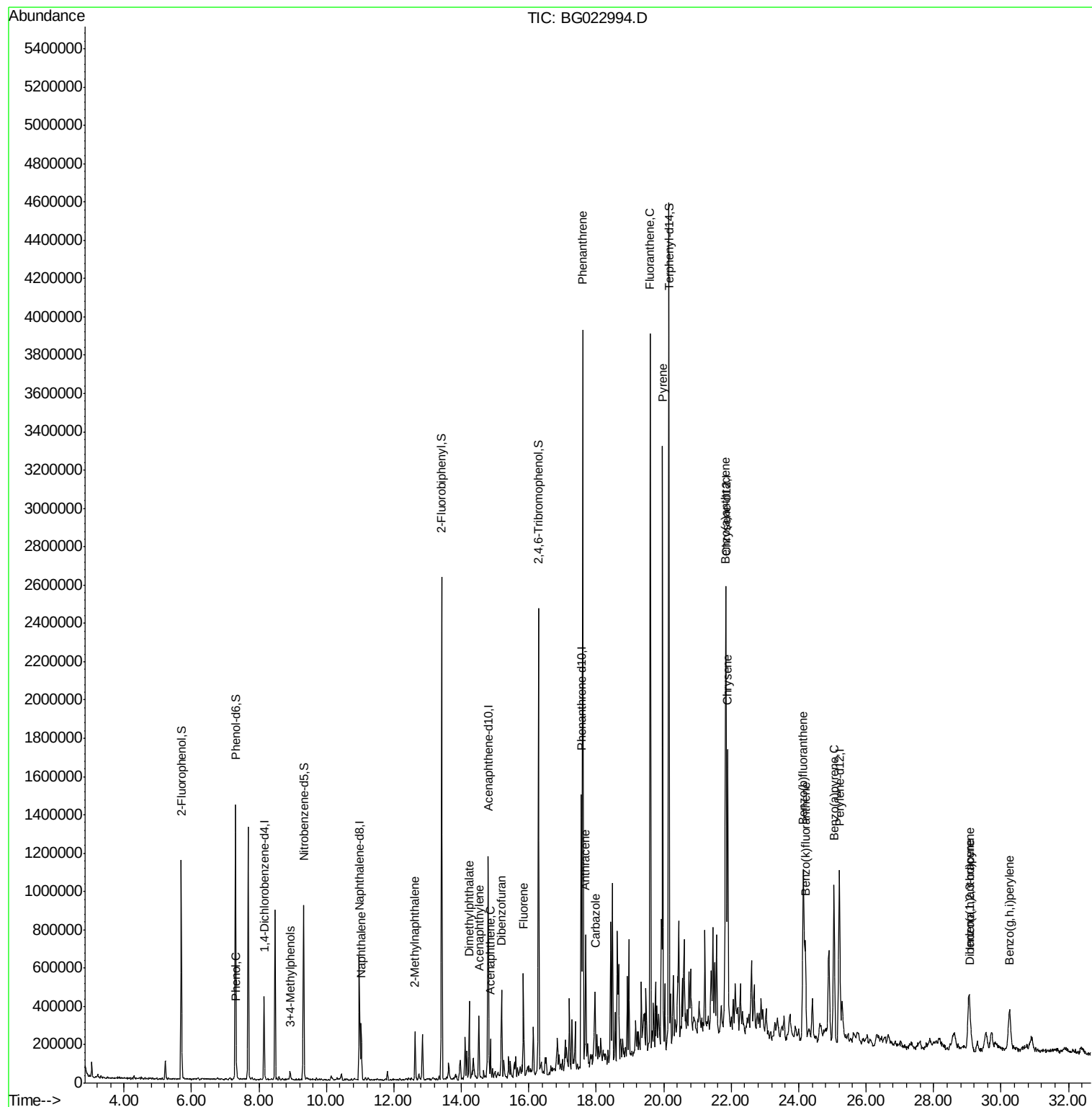
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071016\
Data File : BG022994.D
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Misc :
ALS Vial : 27 Sample Multiplier: 1

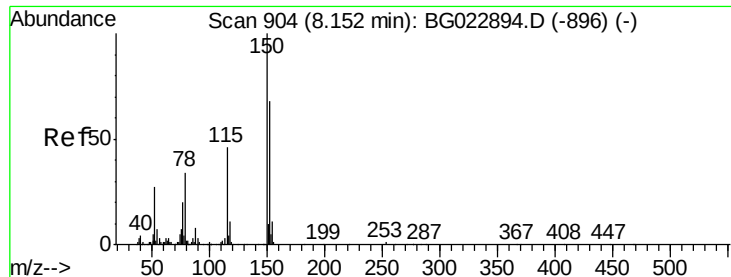
Instrument :
BNA_G
ClientSampleId :
1A-LOCATION-1-0-5FT

Manual Integrations

Quant Time: Jul 11 03:52:56 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 07 16:51:07 2016
Response via : Initial Calibration

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.15 min Scan# 904

Delta R.T. -0.00 min

Lab File: BG022994.D

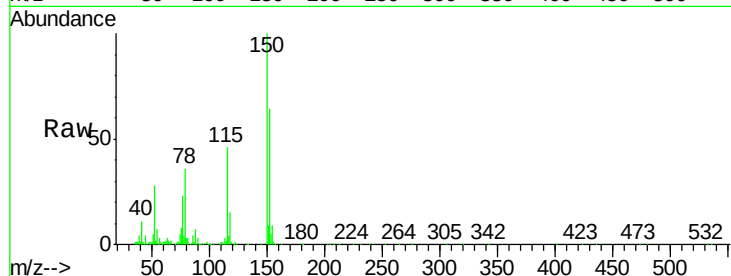
Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampled :

1A-LOCATION-1-0-5FT



Tgt Ion:152 Resp: 105896

Ion Ratio Lower Upper

152 100

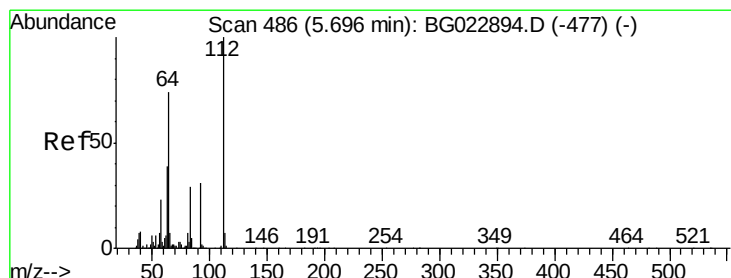
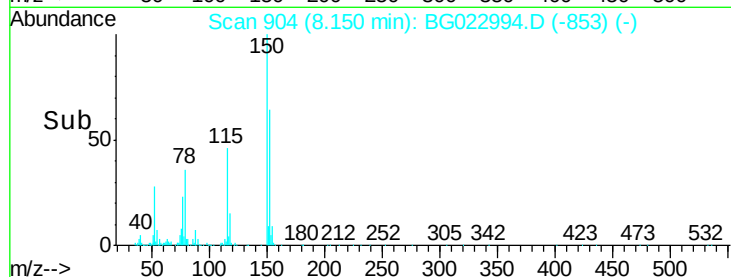
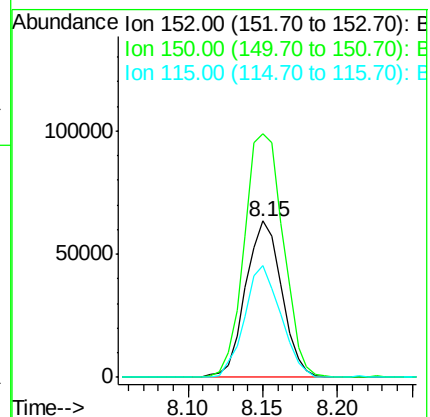
150 155.7 144.7 217.1

115 71.3 64.0 96.0

Manual Integrations

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#5

2-Fluorophenol

Concen: 69.91 ng

RT: 5.69 min Scan# 486

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

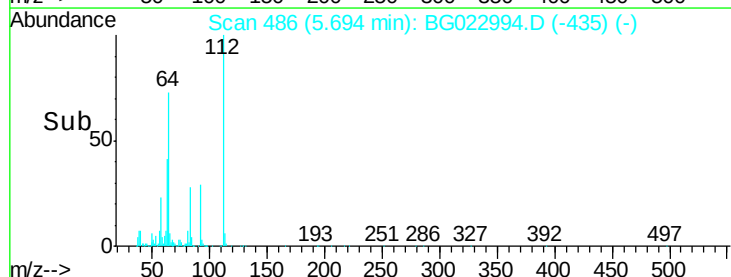
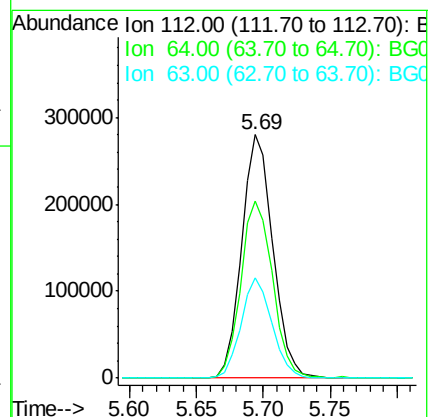
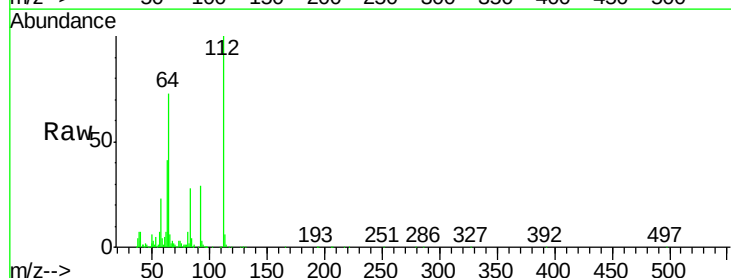
Tgt Ion:112 Resp: 452645

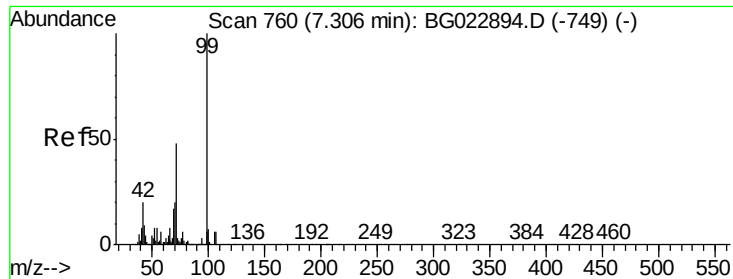
Ion Ratio Lower Upper

112 100

64 72.9 59.0 88.4

63 40.9 37.8 56.8





#7

Phenol-d6

Concen: 77.85 ng

RT: 7.30 min Scan# 760

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

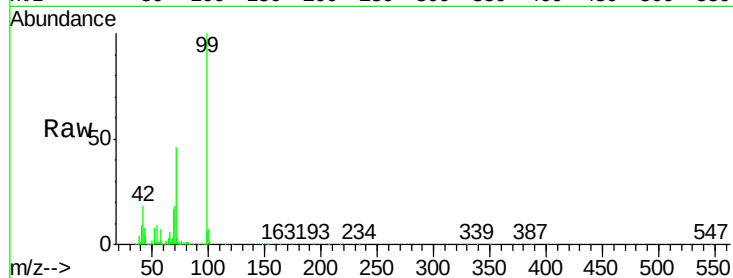
ClientSampleId :

1A-LOCATION-1-0-5FT

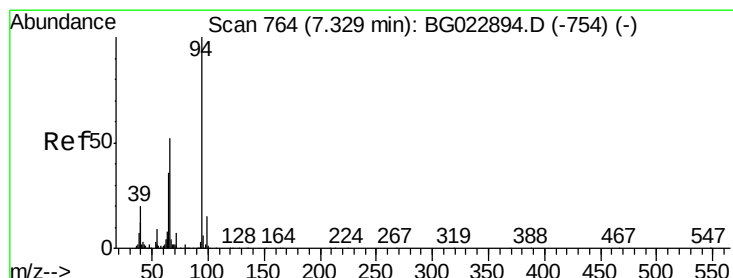
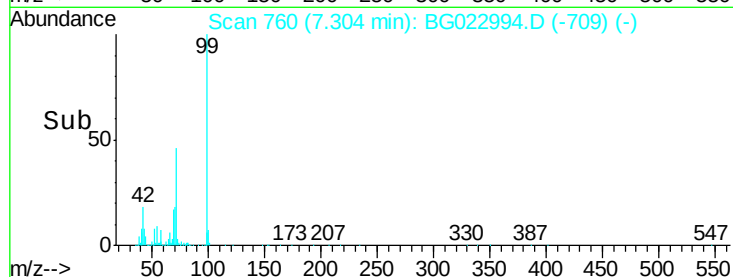
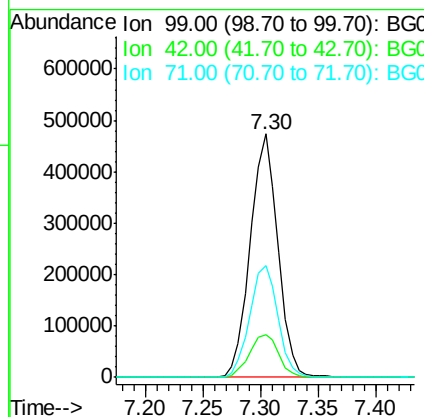
Manual Integrations

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Tgt Ion	99	Ratio	100	Resp	789455
Ion	99	100		Lower	Upper
	42	17.7		17.8	26.6#
	71	46.2		41.5	62.3



#10

Phenol

Concen: 2.38 ng

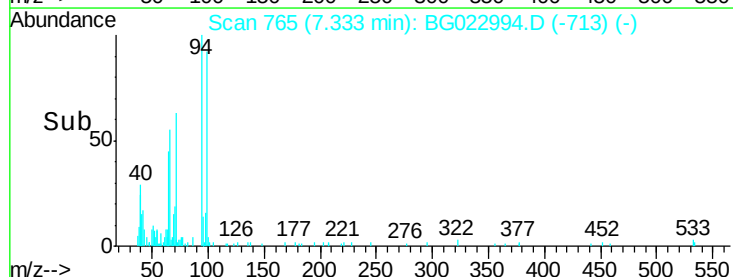
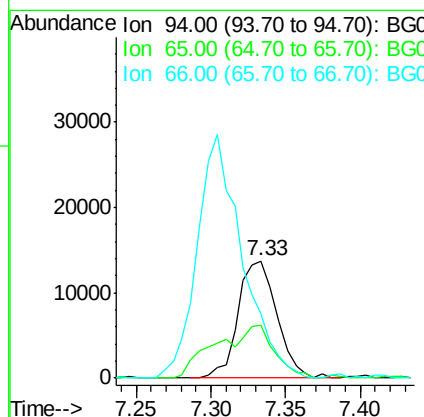
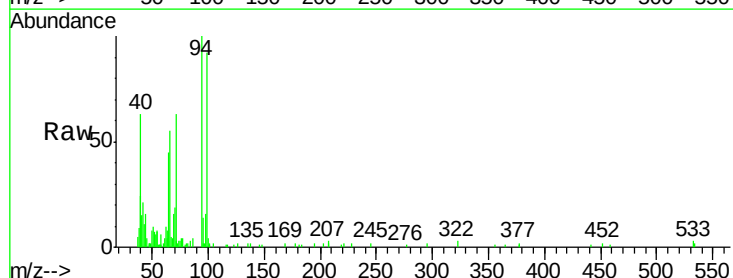
RT: 7.33 min Scan# 765

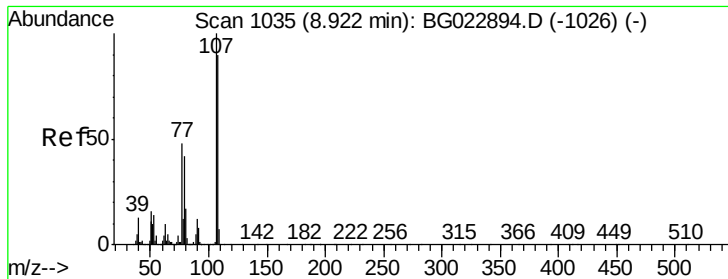
Delta R.T. 0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion	94	Ratio	100	Resp	24871
Ion	94	100		Lower	Upper
	65	44.8		18.1	58.1
	66	54.7		42.1	82.1





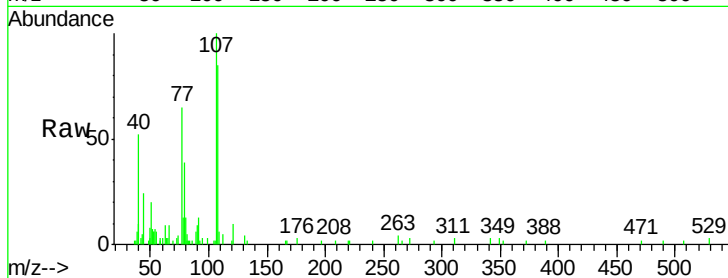
#20
3+4-Methylphenols
Concen: 2.02 ng
RT: 8.92 min Scan# 1035
Delta R.T. -0.00 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Instrument :
BNA_G
ClientSampleId :
1A-LOCATION-1-0-5FT

Tgt Ion	Ratio	Lower	Upper
107	100		
108	85.4	72.5	112.5
77	65.3	30.1	70.1
79	39.4	24.2	64.2

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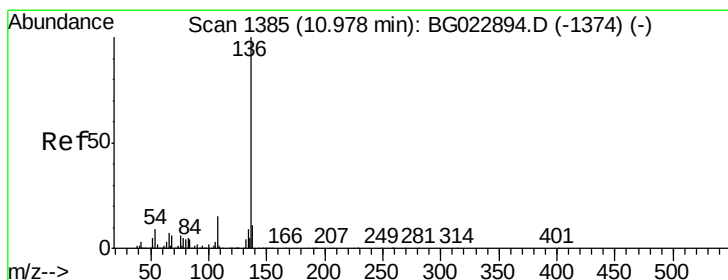
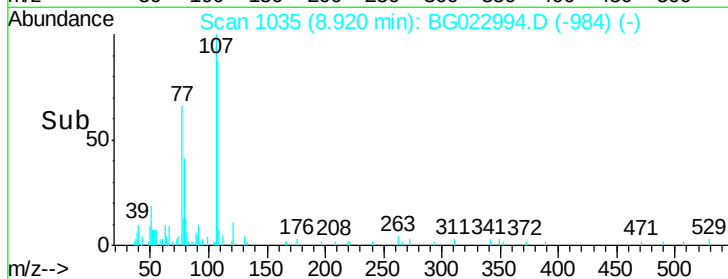
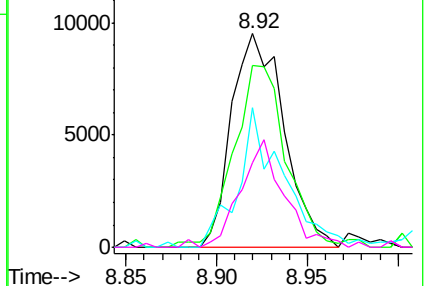
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BG

Ion 79.00 (78.70 to 79.70): BG



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.98 min Scan# 1385
Delta R.T. -0.00 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.6	14.4
54	8.7	7.3	10.9
68	6.6	5.3	7.9

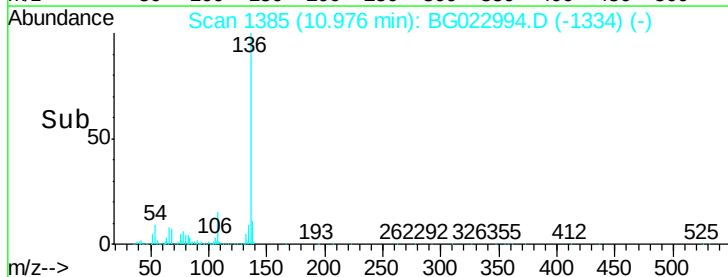
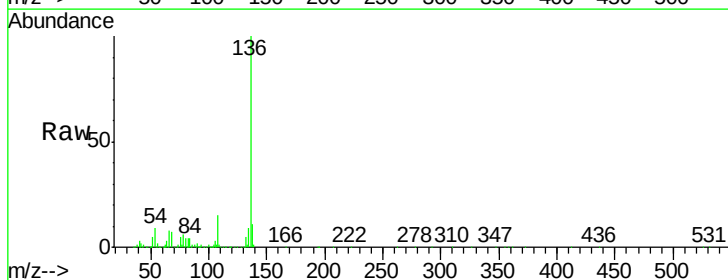
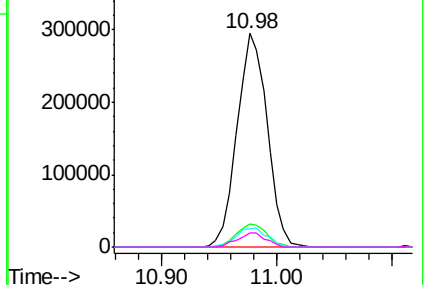
Abundance

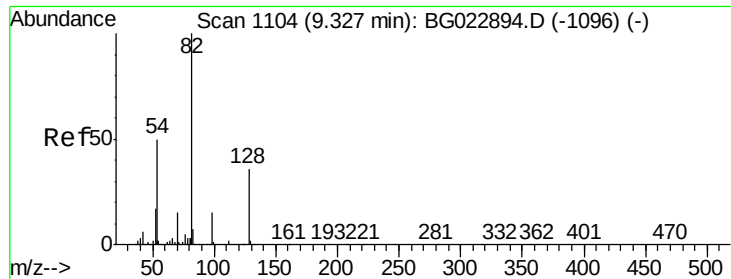
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BG

Ion 68.00 (67.70 to 68.70): BG





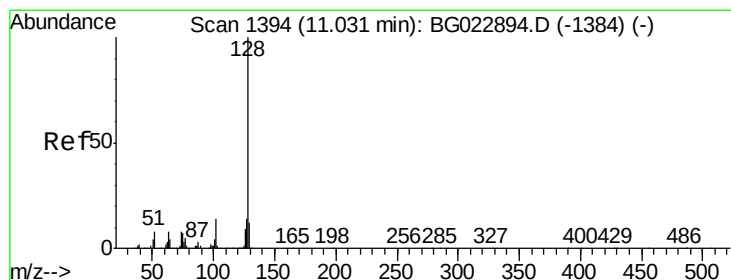
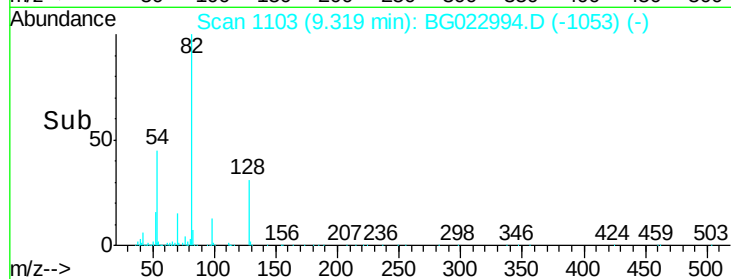
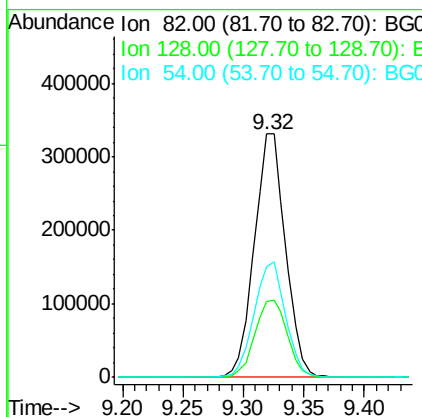
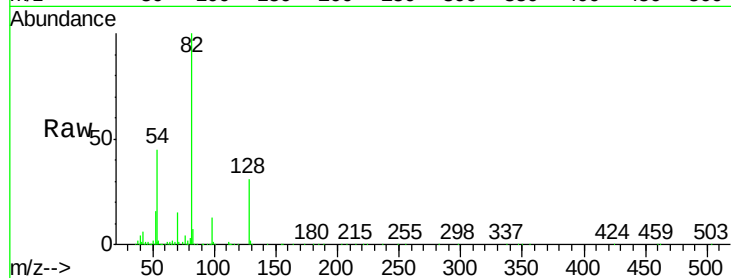
#23
 Nitrobenzene-d5
 Concen: 47.56 ng
 RT: 9.32 min Scan# 1103
 Delta R.T. -0.01 min
 Lab File: BG022994.D
 Acq: 10 Jul 2016 10:48

Instrument :
 BNA_G
 ClientSampleId :
 1A-LOCATION-1-0-5FT

Tgt Ion	82	Resp	592636
Ion Ratio	Lower	Upper	
82	100		
128	31.3	24.4	36.6
54	45.5	41.4	62.0

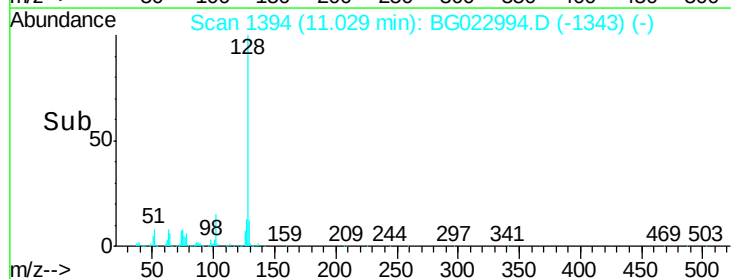
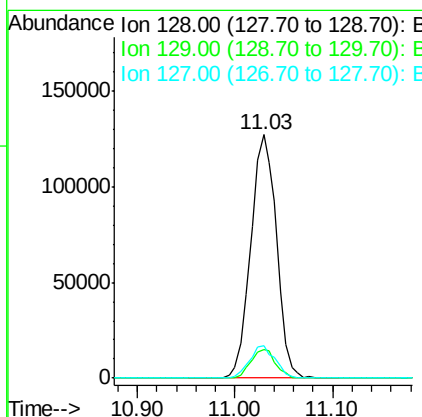
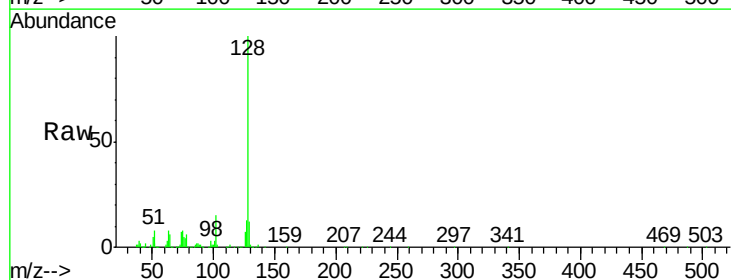
Manual Integrations

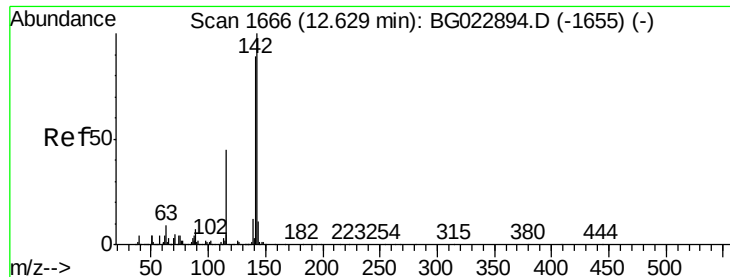
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#31
 Naphthalene
 Concen: 8.69 ng
 RT: 11.03 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: BG022994.D
 Acq: 10 Jul 2016 10:48

Tgt Ion	128	Resp	236156
Ion Ratio	Lower	Upper	
128	100		
129	11.8	9.4	14.0
127	13.4	11.3	16.9





#37

2-Methylnaphthalene

Concen: 5.29 ng

RT: 12.63 min Scan# 1666

Delta R.T. -0.00 min

Lab File: BG022994.D

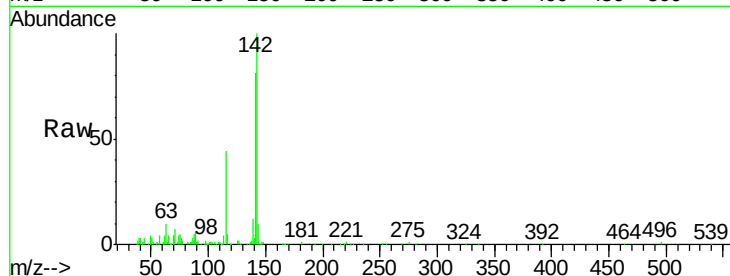
Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampleId :

1A-LOCATION-1-0-5FT

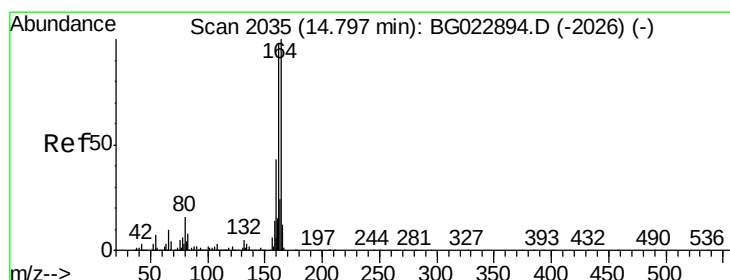
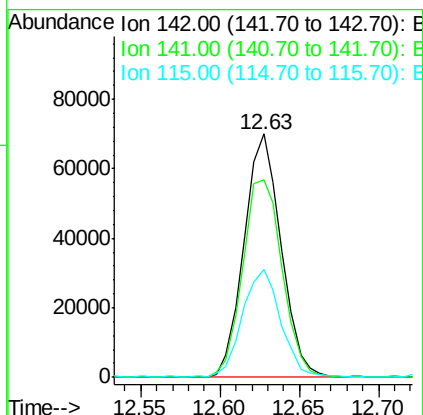
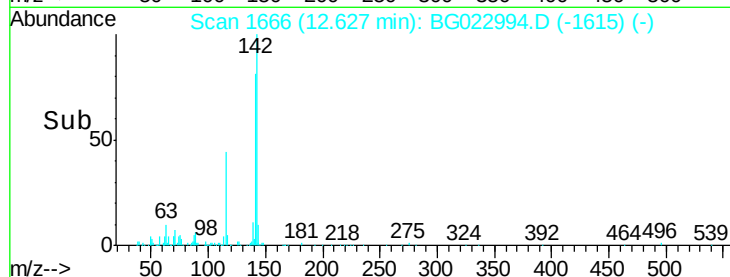


Tgt Ion:	142	Resp:	113514
Ion Ratio	Lower	Upper	
142	100		
141	81.1	70.2	105.2
115	44.3	41.7	62.5

Manual Integrations

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#38

Acenaphthene-d10

Concen: 20.00 ng

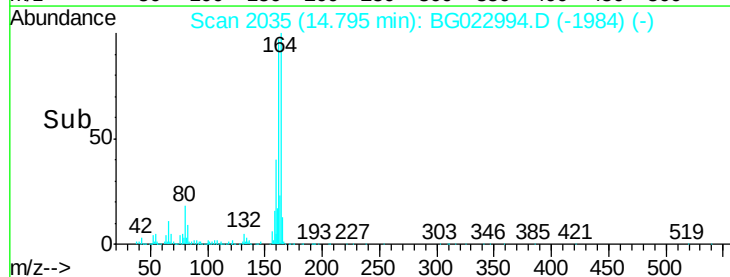
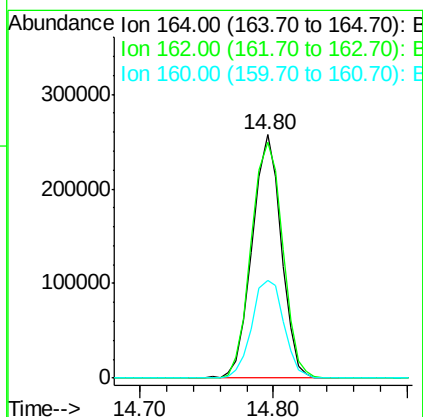
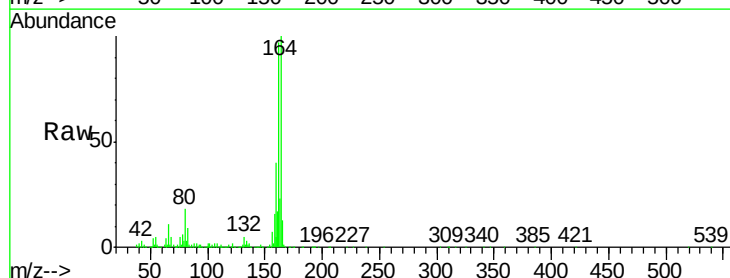
RT: 14.80 min Scan# 2035

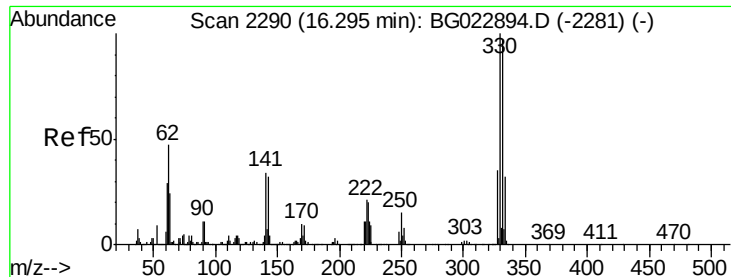
Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion:	164	Resp:	385821
Ion Ratio	Lower	Upper	
164	100		
162	97.0	87.7	131.5
160	40.3	37.2	55.8





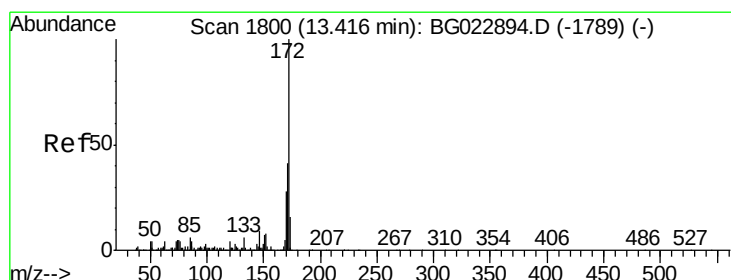
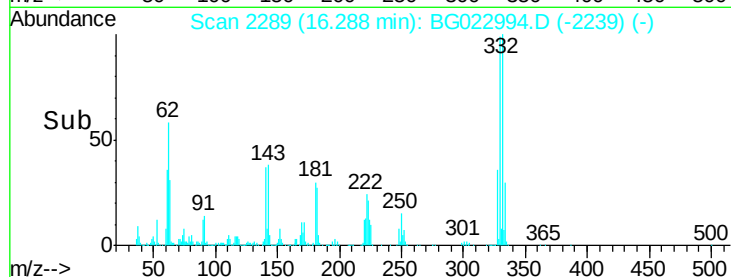
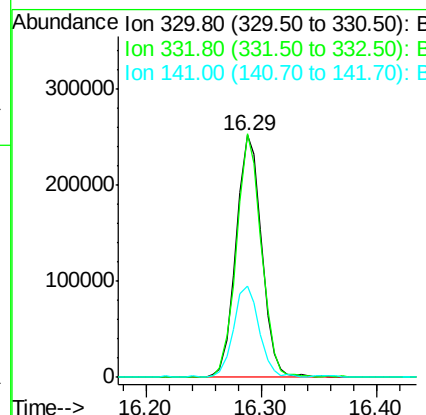
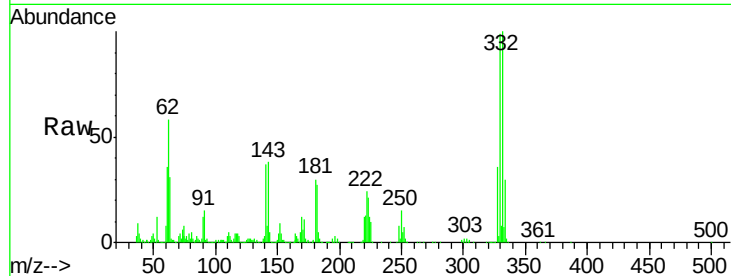
#41
 2,4,6-Tribromophenol
 Concen: 55.82 ng
 RT: 16.29 min Scan# 2289
 Delta R.T. -0.01 min
 Lab File: BG022994.D
 Acq: 10 Jul 2016 10:48

Instrument :
 BNA_G
 ClientSampleId :
 1A-LOCATION-1-0-5FT

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.4	116.2
141	37.2	31.7	47.5

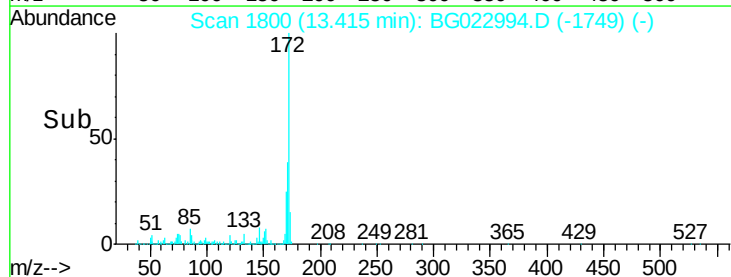
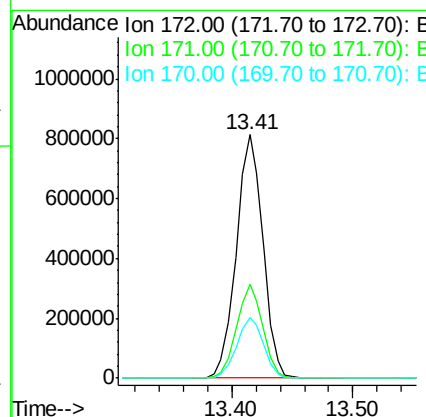
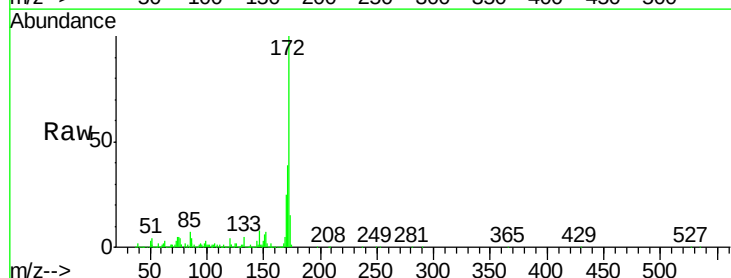
Manual Integrations

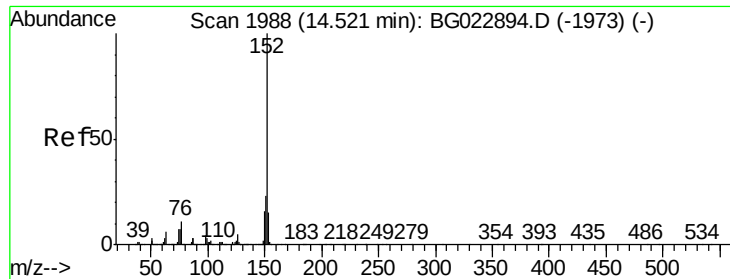
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#44
 2-Fluorobiphenyl
 Concen: 50.73 ng
 RT: 13.41 min Scan# 1800
 Delta R.T. -0.00 min
 Lab File: BG022994.D
 Acq: 10 Jul 2016 10:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.6	31.6	47.4
170	25.1	21.3	31.9





#48

Acenaphthylene

Concen: 6.09 ng

RT: 14.52 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BG022994.D

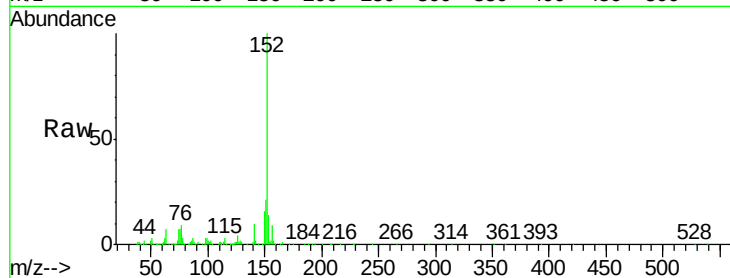
Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampleId :

1A-LOCATION-1-0-5FT

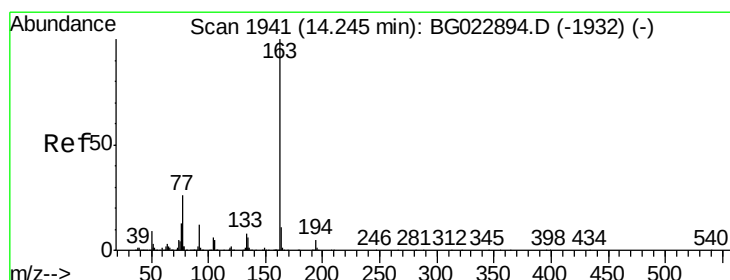
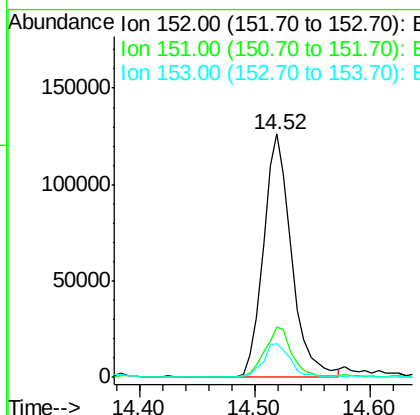
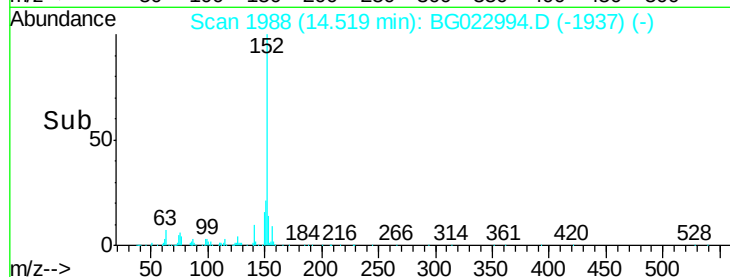


Tgt Ion:	152	Resp:	214393
Ion Ratio	Lower	Upper	
152	100		
151	20.6	17.6	26.4
153	13.9	11.4	17.2

Manual Integrations

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#49

Dimethylphthalate

Concen: 7.89 ng

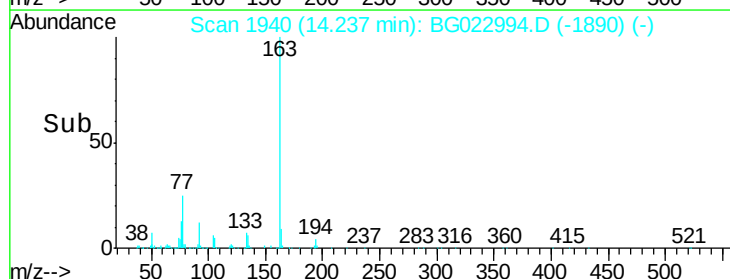
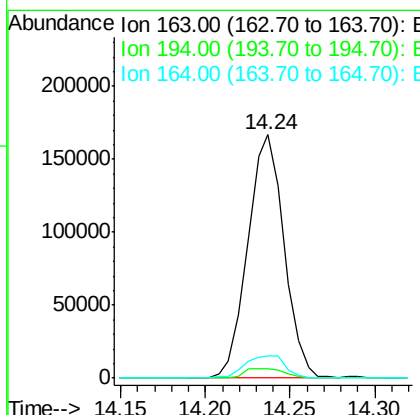
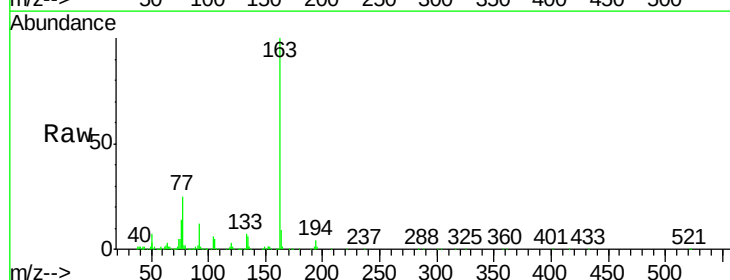
RT: 14.24 min Scan# 1940

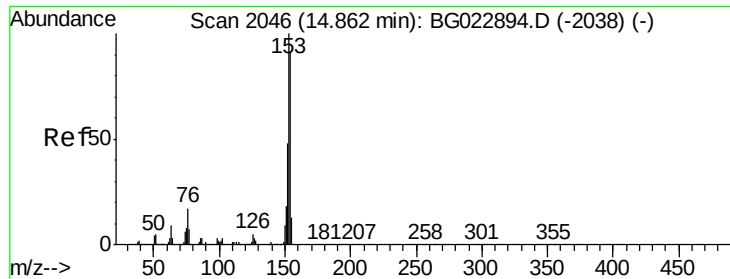
Delta R.T. -0.01 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion:	163	Resp:	248617
Ion Ratio	Lower	Upper	
163	100		
194	4.0	3.6	5.4
164	9.2	8.1	12.1





#51

Acenaphthene

Concen: 2.91 ng

RT: 14.86 min Scan# 2046

Delta R.T. -0.00 min

Lab File: BG022994.D

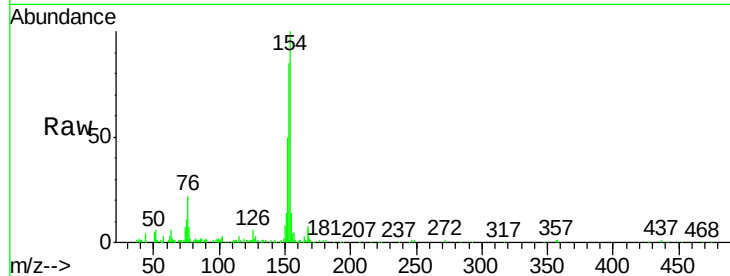
Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampleId :

1A-LOCATION-1-0-5FT

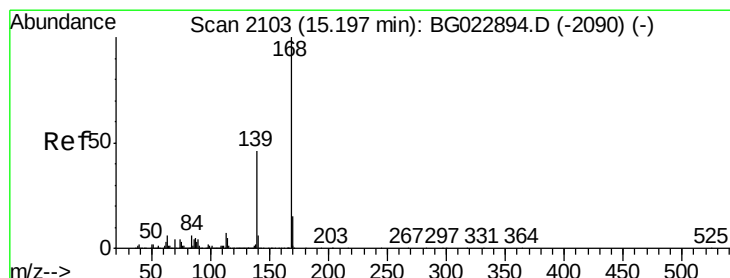
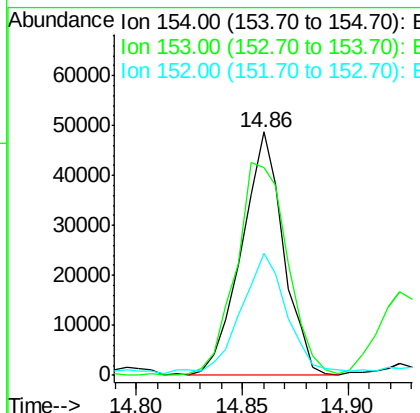
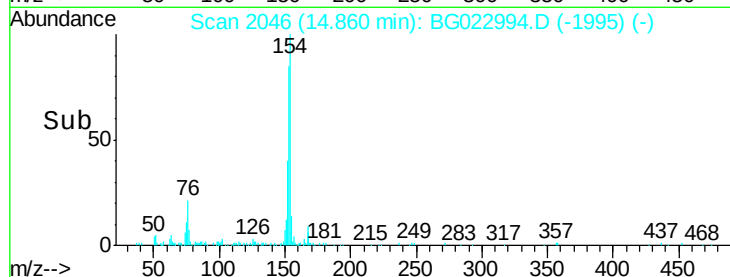


Tgt Ion:	154	Resp:	67063
Ion Ratio	Lower	Upper	
154	100		
153	85.3	87.5	131.3#
152	50.4	42.7	64.1

Manual Integrations

SOHIL

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#54

Dibenzofuran

Concen: 7.22 ng

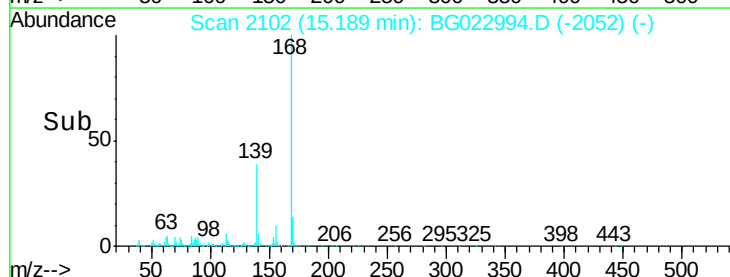
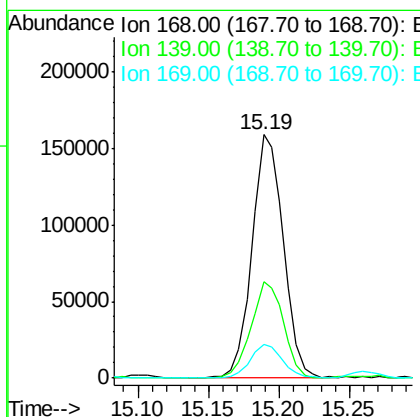
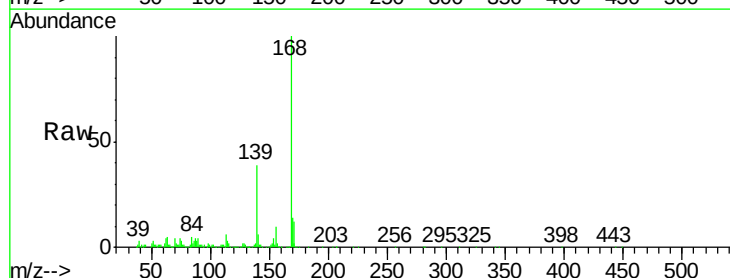
RT: 15.19 min Scan# 2102

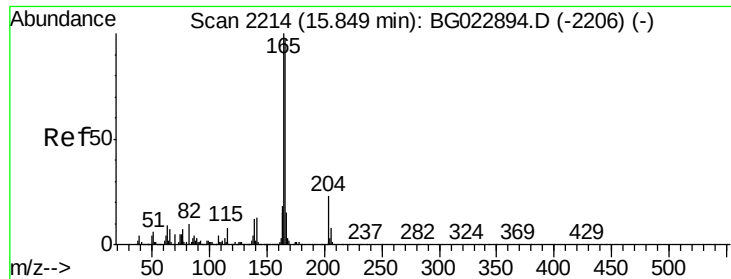
Delta R.T. -0.01 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion:	168	Resp:	248652
Ion Ratio	Lower	Upper	
168	100		
139	39.5	36.4	54.6
169	13.8	11.9	17.9





#57

Fluorene

Concen: 7.91 ng

RT: 15.84 min Scan# 2213

Delta R.T. -0.01 min

Lab File: BG022994.D

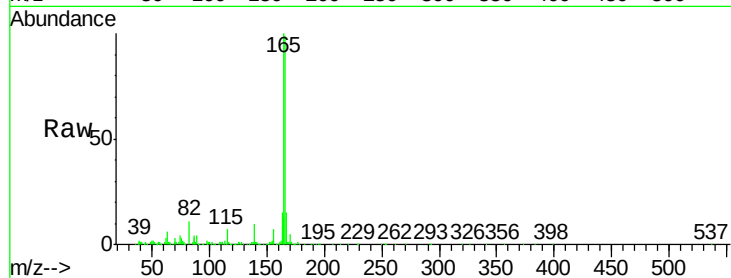
Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampleId :

1A-LOCATION-1-0-5FT

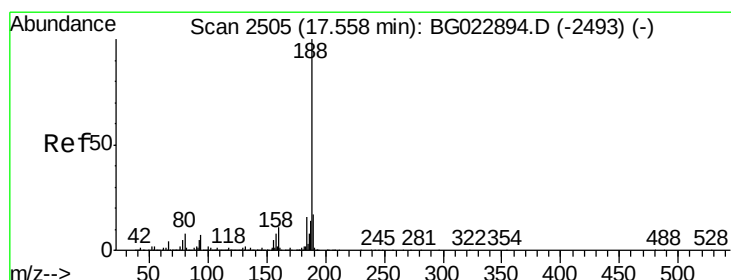
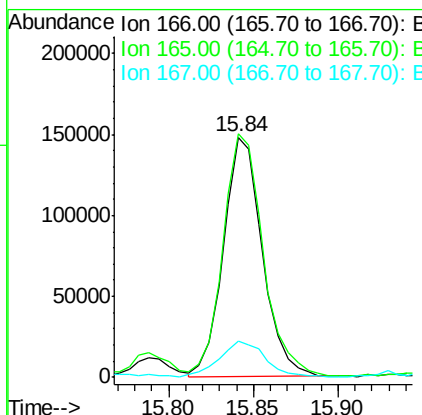
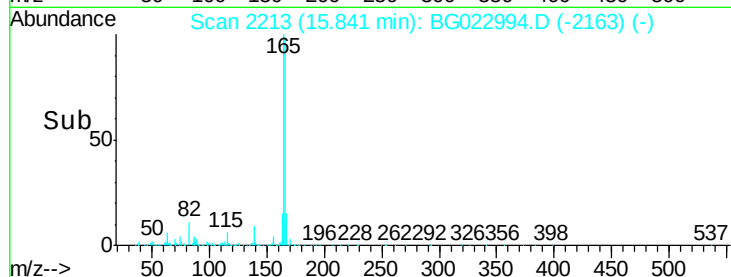


Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.4	81.0	121.6
167	15.2	12.0	18.0

Manual Integrations

SOHIL

7/11/2016 6:47:08 AM



#63

Phenanthrene-d10

Concen: 20.00 ng

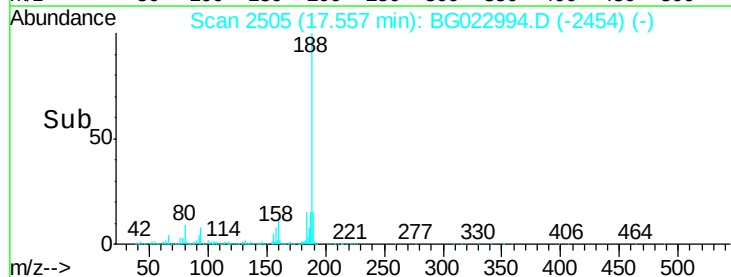
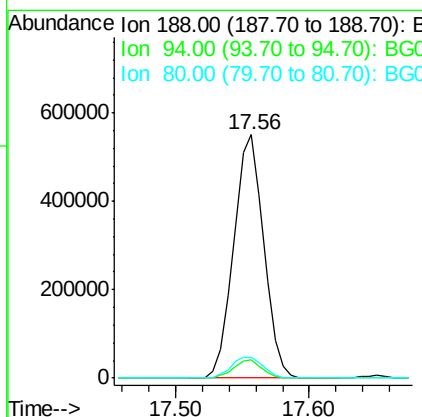
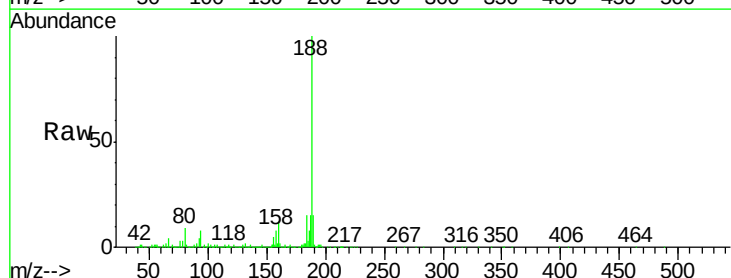
RT: 17.56 min Scan# 2505

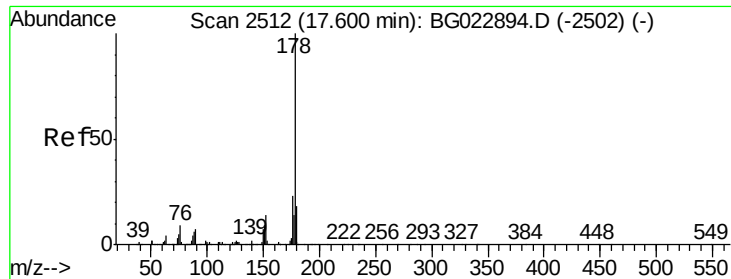
Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.7	5.2	7.8
80	8.7	7.2	10.8





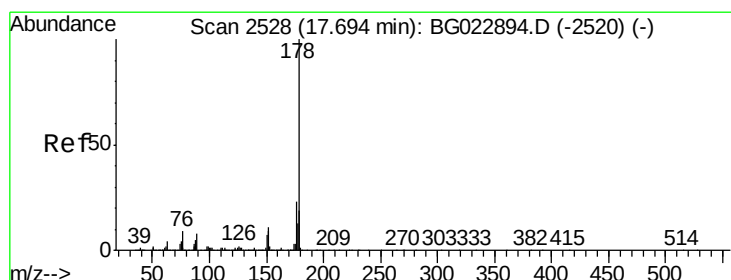
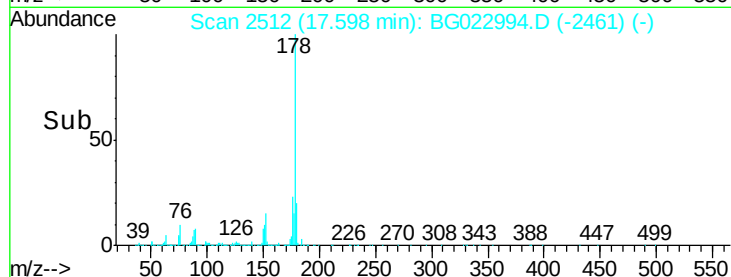
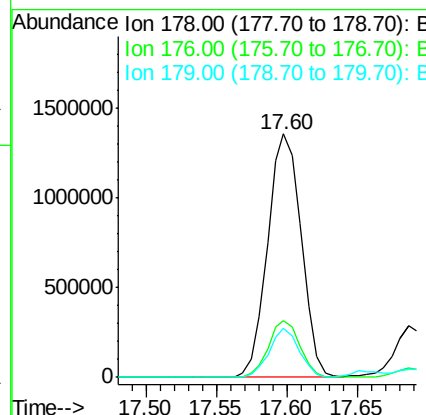
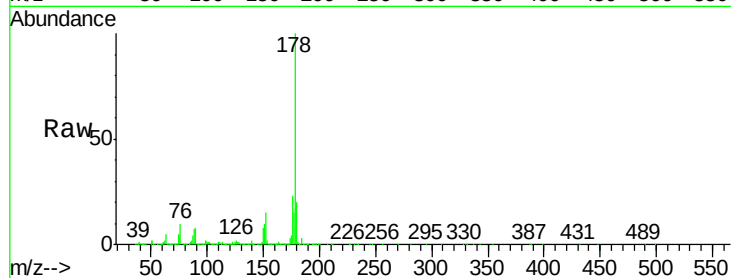
#70
Phenanthrene
Concen: 53.76 ng
RT: 17.60 min Scan# 2512
Delta R.T. -0.00 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Instrument :
BNA_G
ClientSampleId :
1A-LOCATION-1-0-5FT

Tgt Ion	Ratio	Lower	Upper
178	100		
176	23.2	16.8	25.2
179	20.1	14.3	21.5

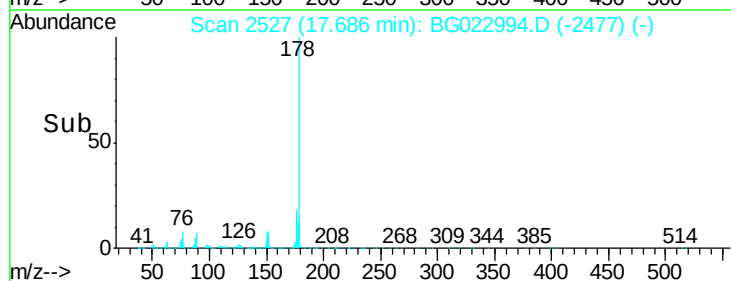
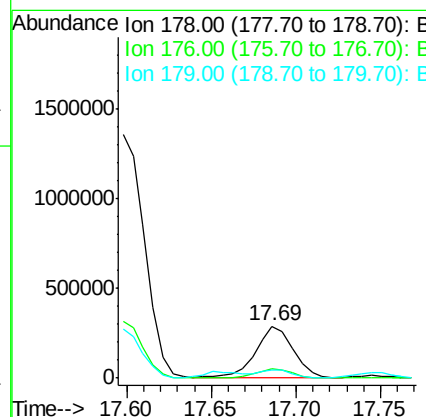
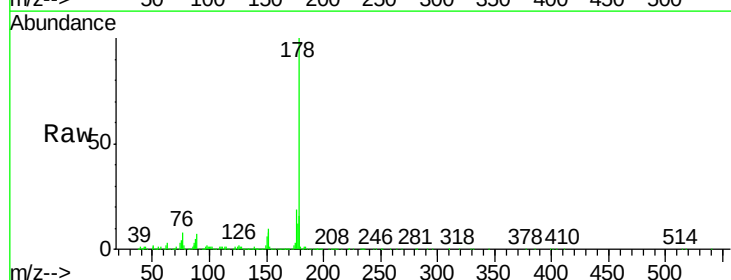
Manual Integrations

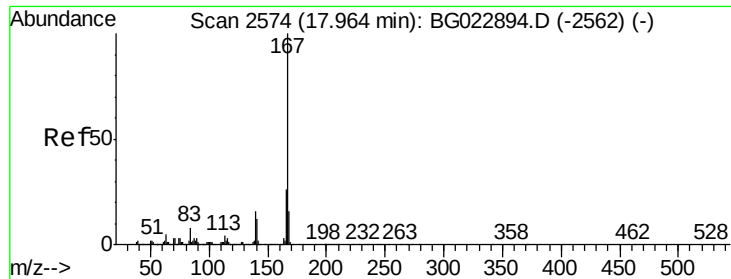
APPROVED
SOHIL
7/11/2016 6:47:08 AM



#71
Anthracene
Concen: 10.11 ng
RT: 17.69 min Scan# 2527
Delta R.T. -0.01 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	17.3	25.9
179	16.2	14.0	21.0





#72

Carbazole

Concen: 6.52 ng

RT: 17.96 min Scan# 2574

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampleId :

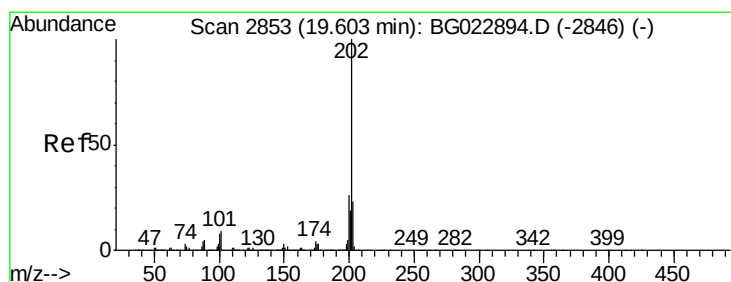
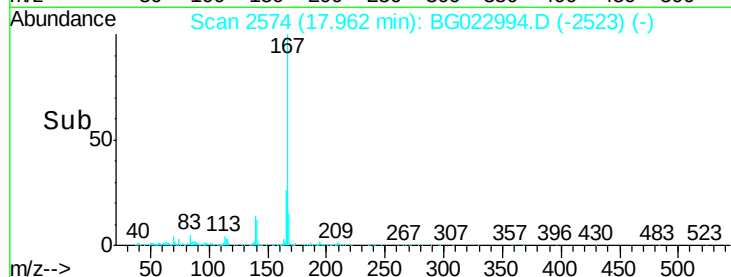
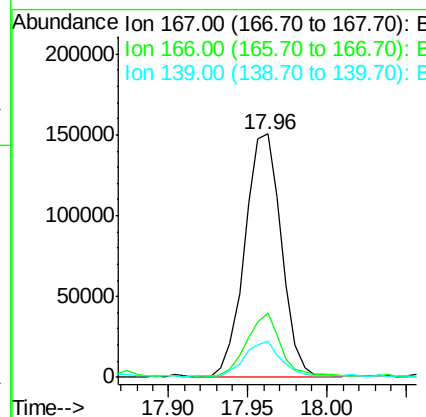
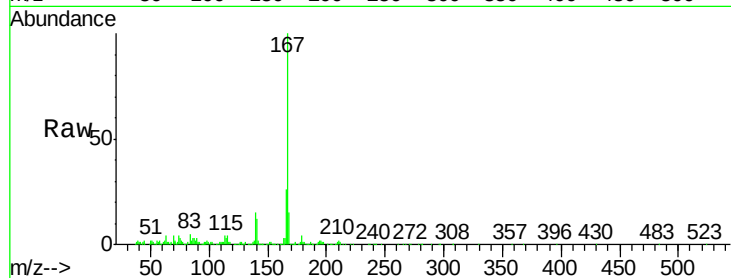
1A-LOCATION-1-0-5FT

Tgt Ion:	167	Resp:	240397
Ion Ratio		Lower	Upper
167	100		
166	26.4	20.7	31.1
139	14.6	11.9	17.9

Manual Integrations

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#74

Fluoranthene

Concen: 43.16 ng

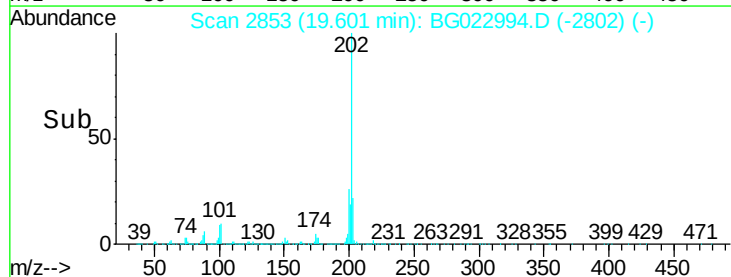
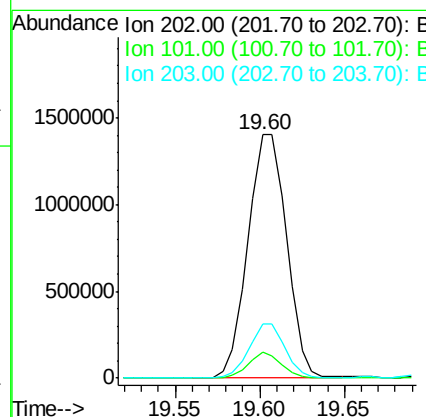
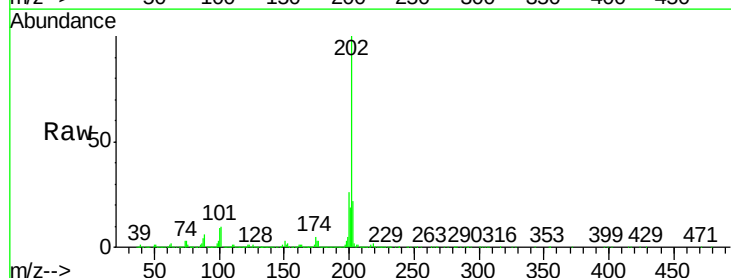
RT: 19.60 min Scan# 2853

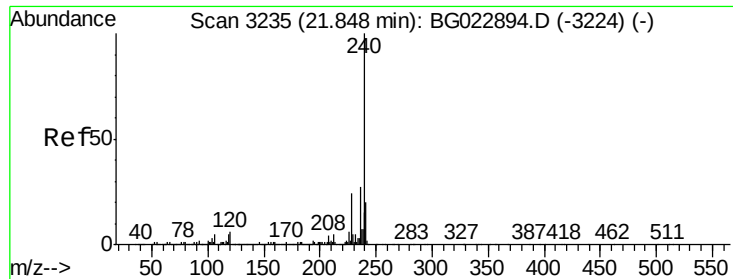
Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion:	202	Resp:	2231792
Ion Ratio		Lower	Upper
202	100		
101	10.4	0.0	27.4
203	22.5	1.7	41.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.85 min Scan# 3236

Delta R.T. 0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampleId :

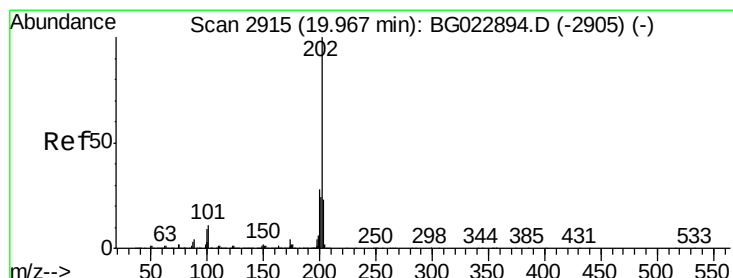
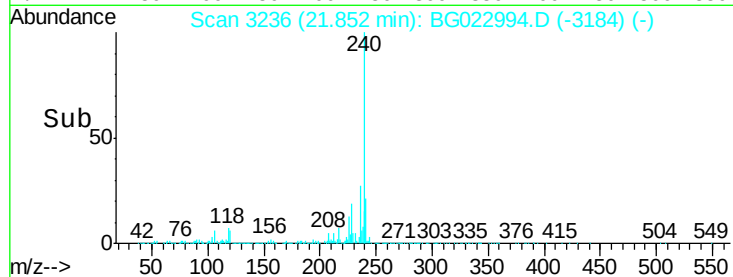
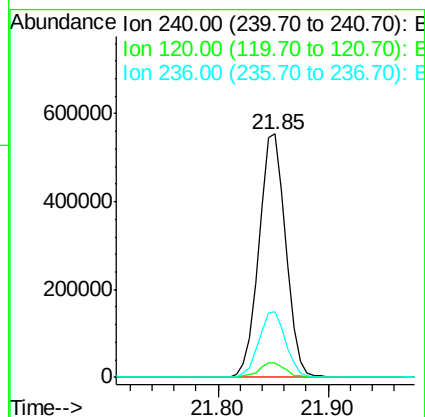
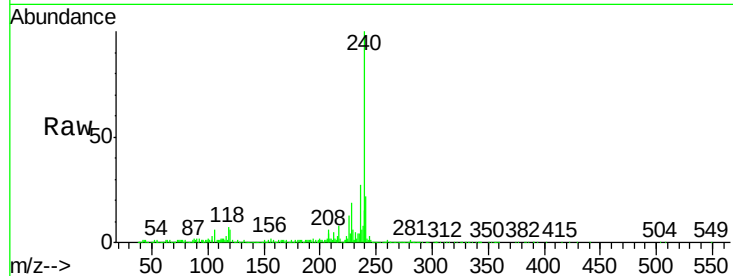
1A-LOCATION-1-0-5FT

Tgt Ion:	240	Resp:	940100
Ion Ratio		Lower	Upper
240	100		
120	6.1	4.1	6.1
236	27.2	21.1	31.7

Manual Integrations

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#77

Pyrene

Concen: 36.31 ng

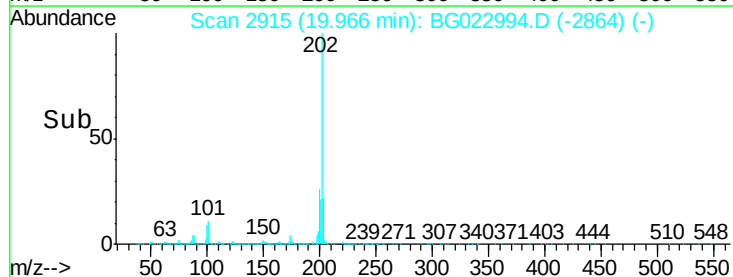
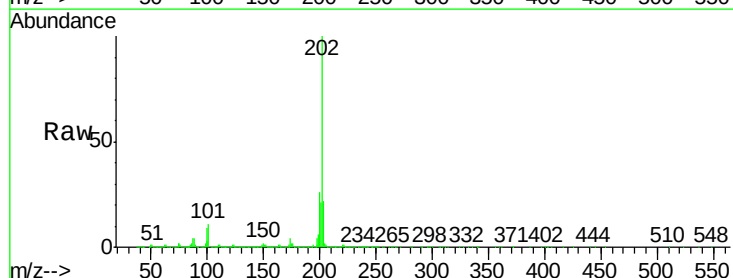
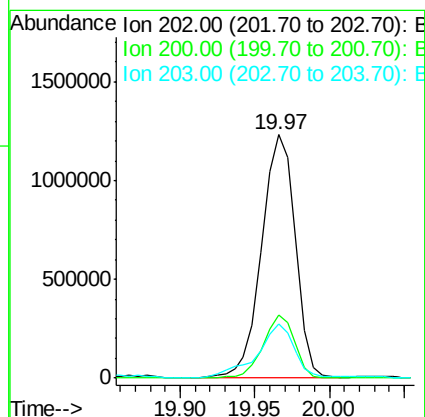
RT: 19.97 min Scan# 2915

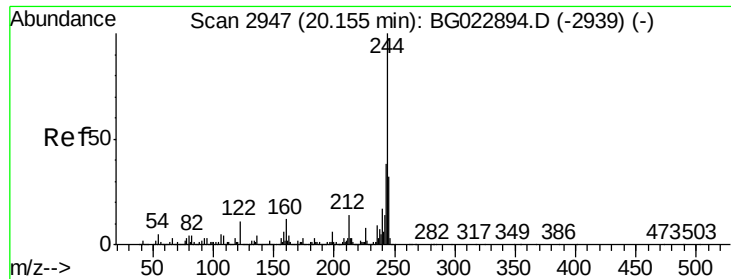
Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion:	202	Resp:	1918011
Ion Ratio		Lower	Upper
202	100		
200	25.9	21.2	31.8
203	22.5	16.8	25.2





#78

Terphenyl-d14

Concen: 48.47 ng

RT: 20.15 min Scan# 2947

Delta R.T. -0.00 min

Lab File: BG022994.D

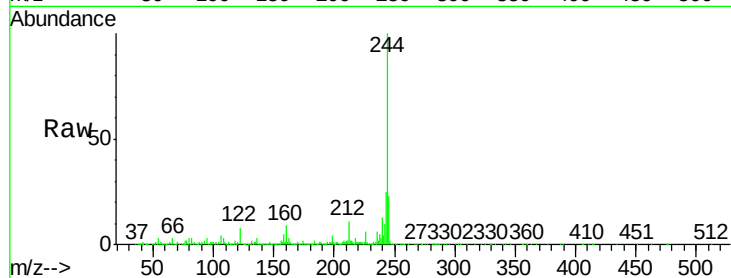
Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampleId :

1A-LOCATION-1-0-5FT



Tgt Ion:244 Resp: 1708660

Ion Ratio Lower Upper

244 100

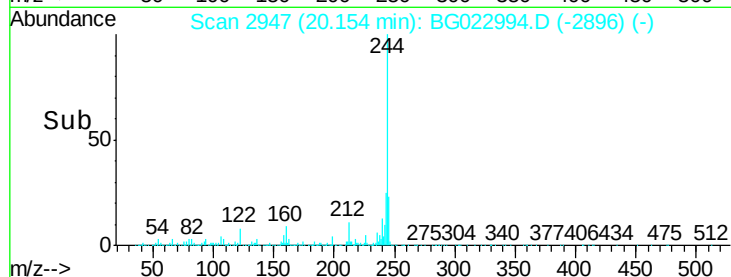
212 10.8 10.8 16.2

122 8.5 8.0 12.0

Manual Integrations

SOHIL

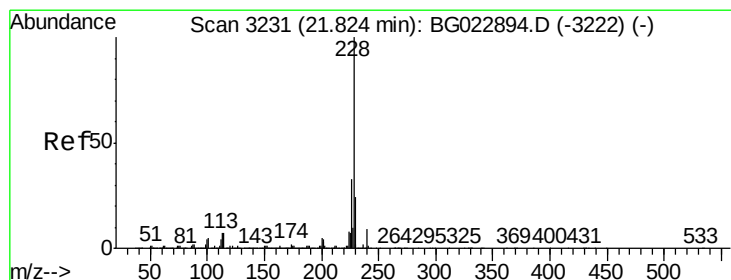
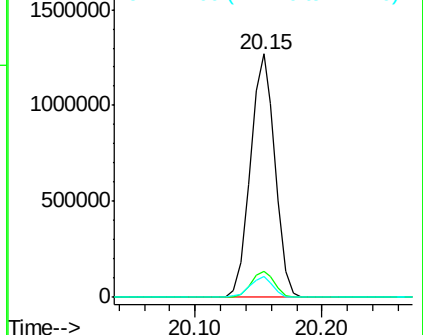
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 22.49 ng

RT: 21.83 min Scan# 3232

Delta R.T. 0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

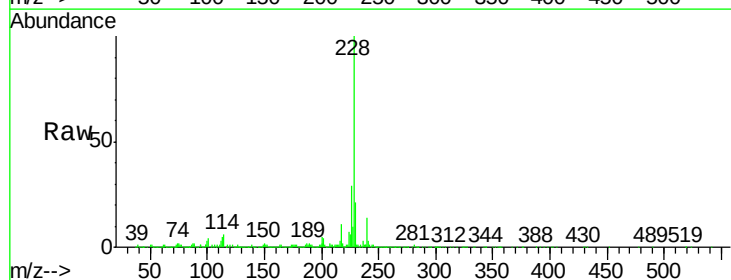
Tgt Ion:228 Resp: 1182739

Ion Ratio Lower Upper

228 100

226 29.5 25.3 37.9

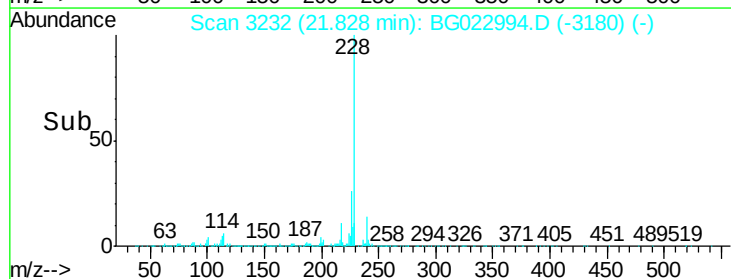
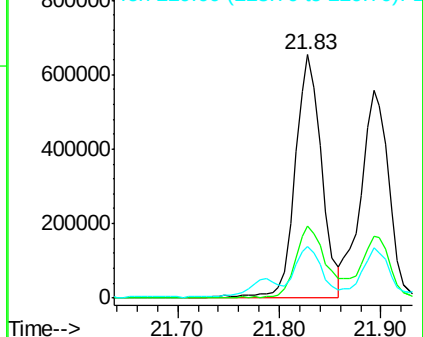
229 21.3 19.9 29.9

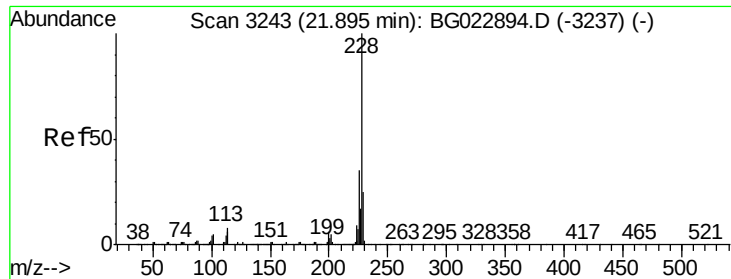


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 21.53 ng

RT: 21.89 min Scan# 3243

Delta R.T. -0.00 min

Lab File: BG022994.D

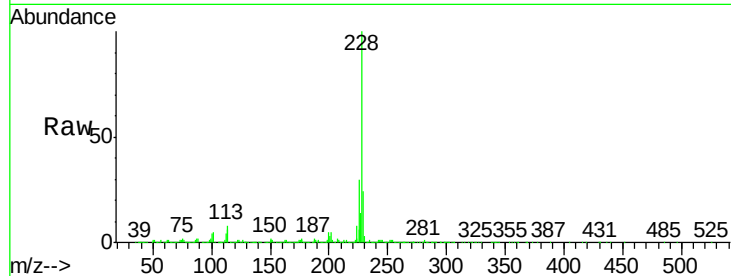
Acq: 10 Jul 2016 10:48

Instrument :

BNA_G

ClientSampleId :

1A-LOCATION-1-0-5FT



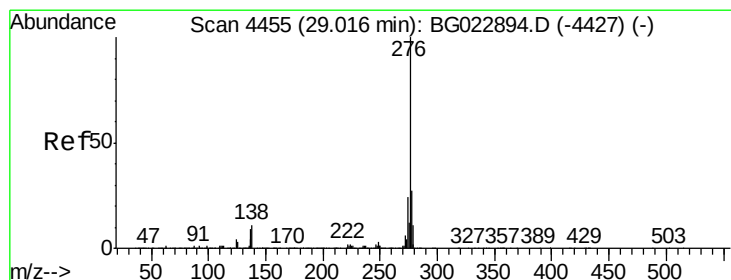
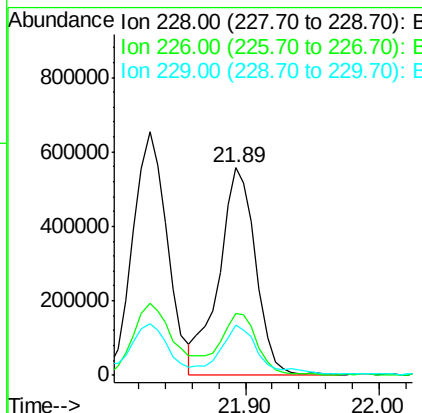
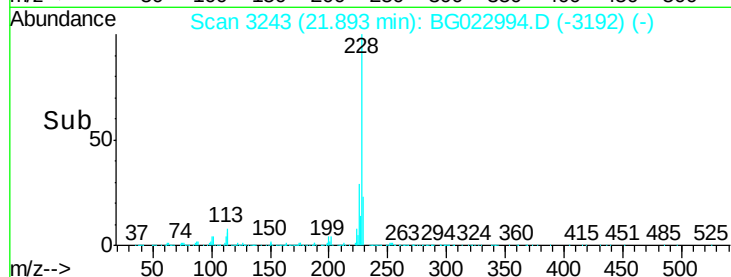
Tgt Ion: 228 Resp: 1062051

Ion	Ratio	Lower	Upper
228	100		
226	29.8	26.7	40.1
229	23.9	17.4	26.2

Manual Integrations

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#85

Indeno(1,2,3-cd)pyrene

Concen: 8.49 ng

RT: 29.06 min Scan# 4462

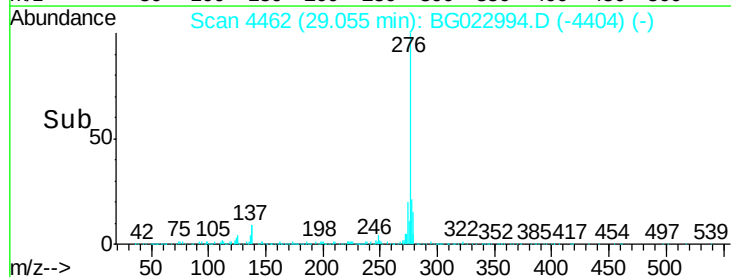
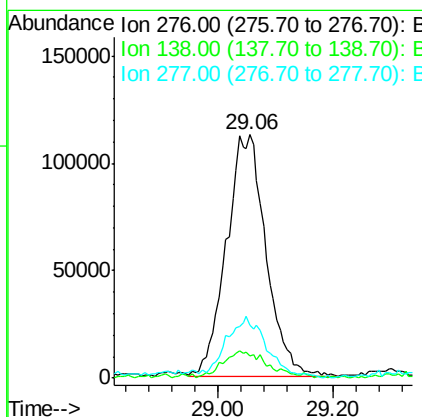
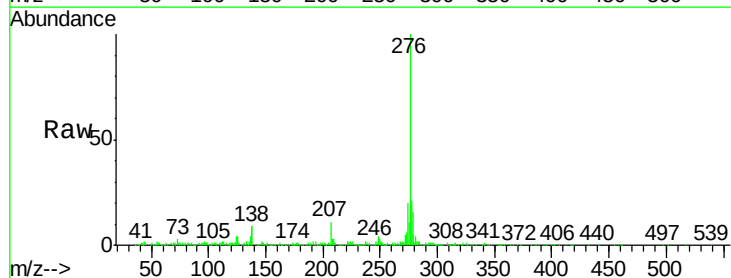
Delta R.T. 0.04 min

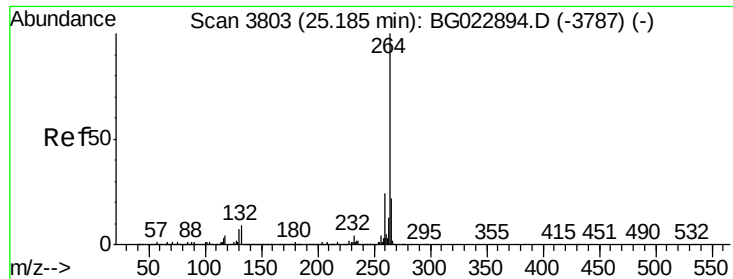
Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion: 276 Resp: 534076

Ion	Ratio	Lower	Upper
276	100		
138	10.5	0.0	0.0#
277	25.7	0.0	0.0#





#86
Perylene-d12
Concen: 20.00 ng
RT: 25.21 min Scan# 3807
Delta R.T. 0.02 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

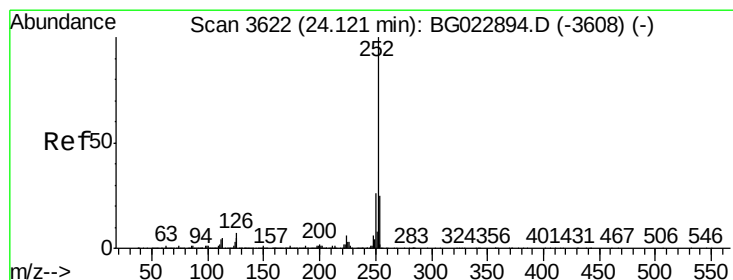
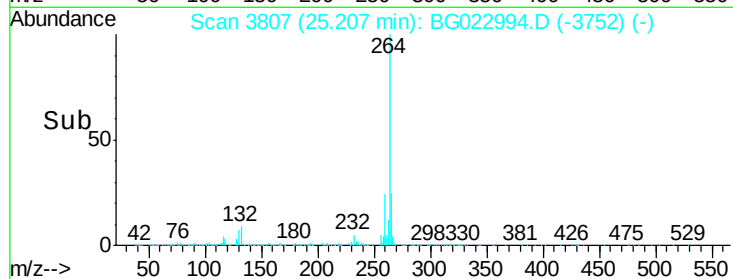
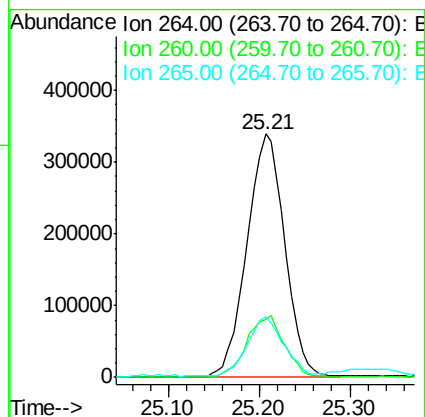
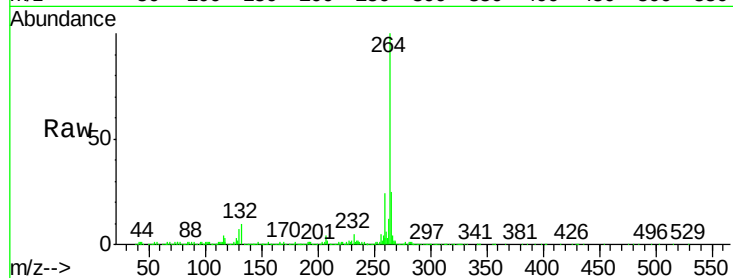
Instrument :
BNA_G
ClientSampleId :
1A-LOCATION-1-0-5FT

Tgt Ion: 264 Resp: 976170

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.4	27.6
265	24.8	18.9	28.3

Manual Integrations

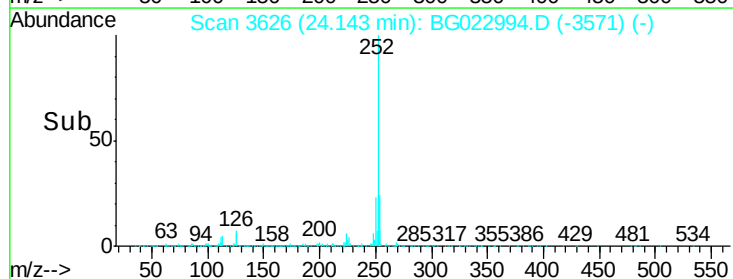
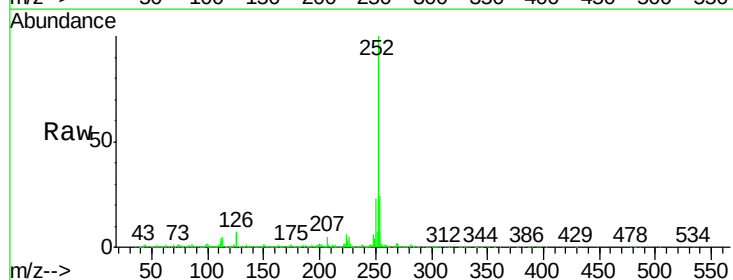
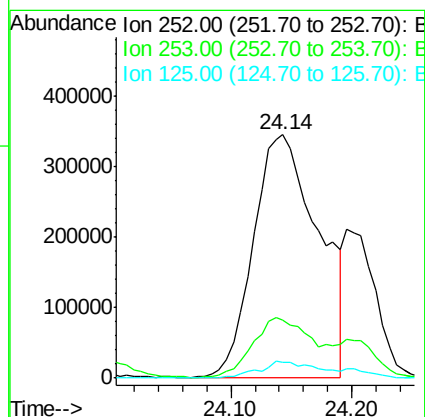
SOHIL
7/11/2016 6:47:08 AM

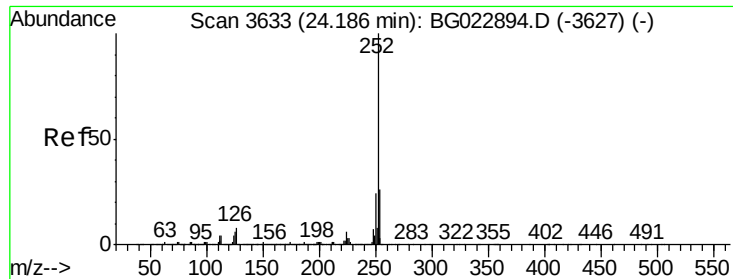


#87
Benzo(b)fluoranthene
Concen: 22.89 ng
RT: 24.14 min Scan# 3626
Delta R.T. 0.02 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Tgt Ion: 252 Resp: 1289091

Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.9	28.3
125	6.2	3.9	5.9





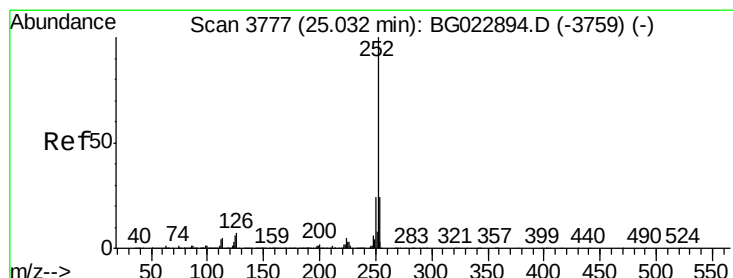
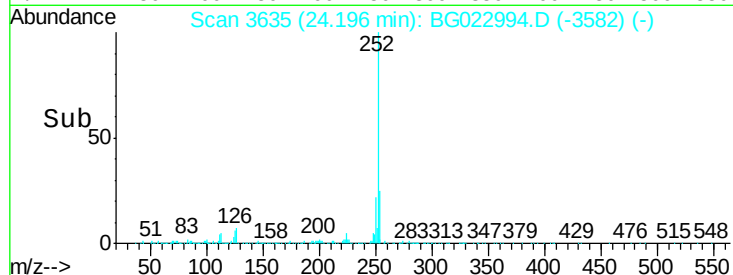
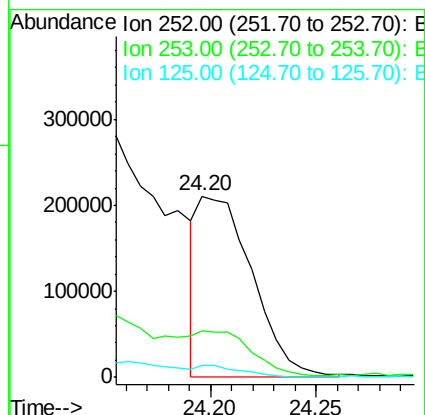
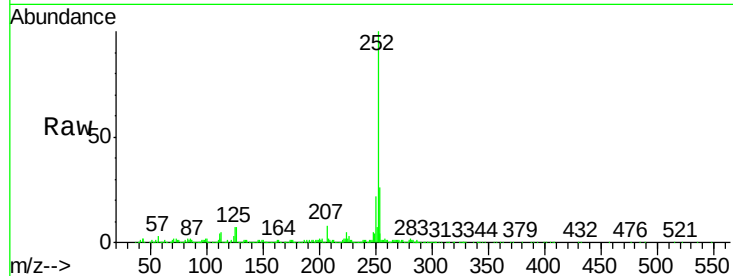
#88
Benzo(k)fluoranthene
Concen: 7.02 ng m
RT: 24.20 min Scan# 3635
Delta R.T. 0.01 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Instrument :
BNA_G
ClientSampleId :
1A-LOCATION-1-0-5FT

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.9	18.8	28.2
125	6.7	3.2	4.8

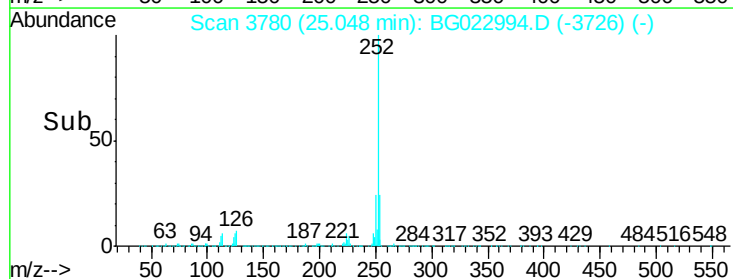
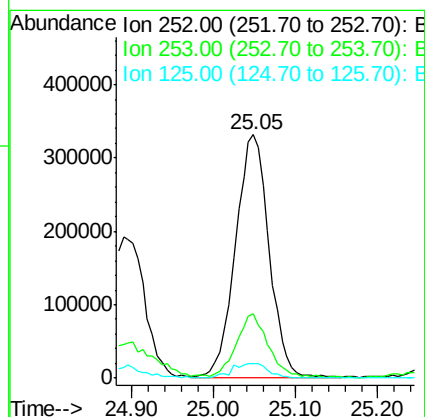
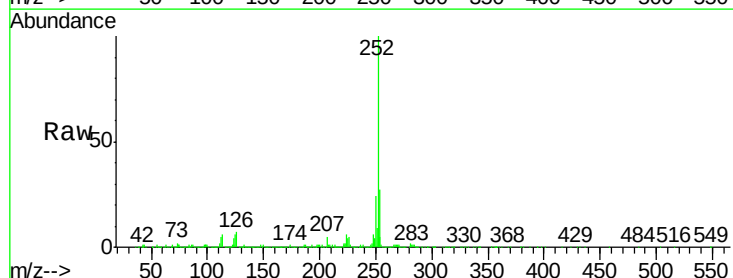
Manual Integrations

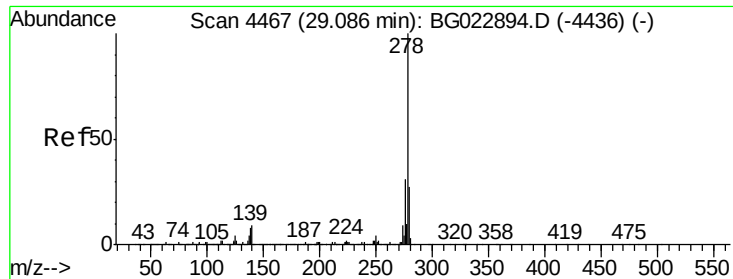
SOHIL
7/11/2016 6:47:08 AM



#89
Benzo(a)pyrene
Concen: 17.42 ng
RT: 25.05 min Scan# 3780
Delta R.T. 0.02 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.6	18.7	28.1
125	5.8	3.9	5.9





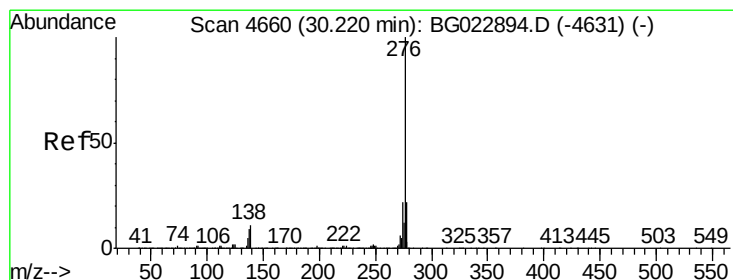
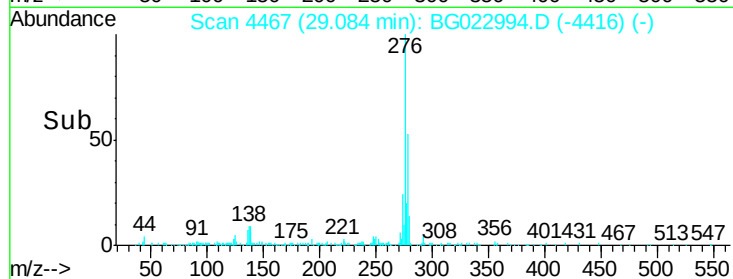
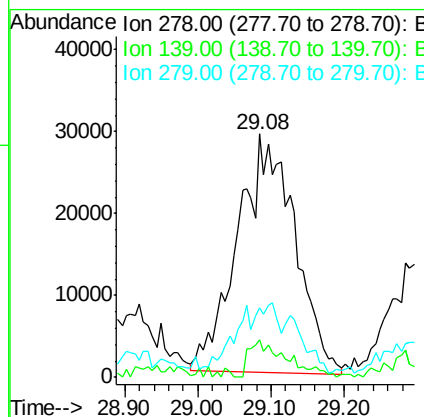
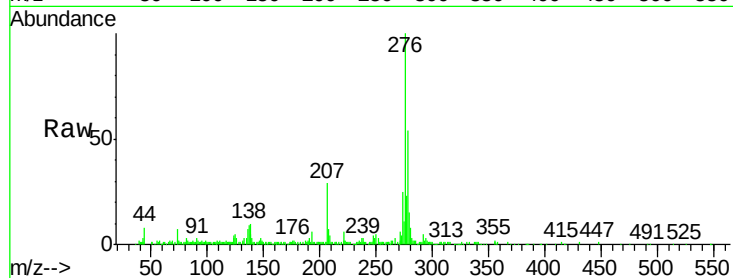
#90
Dibenzo(a,h)anthracene
Concen: 2.95 ng m
RT: 29.08 min Scan# 4467
Delta R.T. -0.00 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Instrument :
BNA_G
ClientSampleId :
1A-LOCATION-1-0-5FT

Tgt Ion: 278 Resp: 158022
Ion Ratio Lower Upper
278 100
139 10.0 4.7 7.1#
279 28.6 18.3 27.5#

Manual Integrations

SOHIL
7/11/2016 6:47:08 AM



#91
Benzo(g,h,i)perylene
Concen: 8.70 ng
RT: 30.25 min Scan# 4666
Delta R.T. 0.03 min
Lab File: BG022994.D
Acq: 10 Jul 2016 10:48

Tgt Ion: 276 Resp: 466894
Ion Ratio Lower Upper
276 100
277 22.6 18.6 27.8
138 14.6 6.8 10.2#

