

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG070319\
 Data File : BG041605.D
 Acq On : 4 Jul 2019 00:51
 Operator : HP/JU
 Sample : K3618-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 HD-01-070219

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:43:19 AM

Quant Time: Jul 04 05:00:34 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 27 13:25:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.03	152	35201	20.00	ng	0.00
21) Naphthalene-d8	10.85	136	131034	20.00	ng	0.00
39) Acenaphthene-d10	14.67	164	89048	20.00	ng	0.00
64) Phenanthrene-d10	17.42	188	208061	20.00	ng	0.00
76) Chrysene-d12	21.70	240	235068	20.00	ng	0.00
87) Perylene-d12	24.99	264	263850	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	78631	39.82	ng	0.00
7) Phenol-d6	7.19	99	112510	40.48	ng	0.00
23) Nitrobenzene-d5	9.21	82	80035	25.47	ng	0.00
42) 2,4,6-Tribromophenol	16.17	330	55793	36.70	ng	0.00
45) 2-Fluorobiphenyl	13.29	172	195203	28.13	ng	0.00
79) Terphenyl-d14	20.03	244	344420	31.14	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.90	128	30781	4.248	ng	96
37) 2-Methylnaphthalene	12.51	142	34507	6.446	ng	96
38) 1-Methylnaphthalene	12.72	142	49637	9.718	ng	98
49) Acenaphthylene	14.40	152	53796	5.964	ng	# 94
50) Dimethylphthalate	14.12	163	38886	4.799	ng	98
52) Acenaphthene	14.74	154	26705	4.992	ng	97
55) Dibenzofuran	15.07	168	76690m	8.235	ng	
58) Fluorene	15.72	166	123088	16.615	ng	96
71) Phenanthrene	17.47	178	701618	61.205	ng	99
72) Anthracene	17.56	178	156139	13.613	ng	97
73) Carbazole	17.84	167	29231	2.998	ng	98
75) Fluoranthene	19.47	202	688453	45.045	ng	98
78) Pvrene	19.84	202	669394	41.714	ng	98
81) Benzo(a)anthracene	21.68	228	320450	19.608	ng	99
83) Chrysene	21.74	228	282338	17.848	ng	97
86) Indeno(1,2,3-cd)pyrene	28.76	276	153301	8.003	ng	# 96
88) Benzo(b)fluoranthene	23.93	252	345332	20.520	ng	97
89) Benzo(k)fluoranthene	24.00	252	107155m	6.485	ng	
90) Benzo(a)pvrene	24.83	252	269361	16.852	ng	96
91) Dibenzo(a,h)anthracene	28.80	278	40644m	2.538	ng	
92) Benzo(q,h,i)perylene	29.94	276	130206	8.178	ng	# 98

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

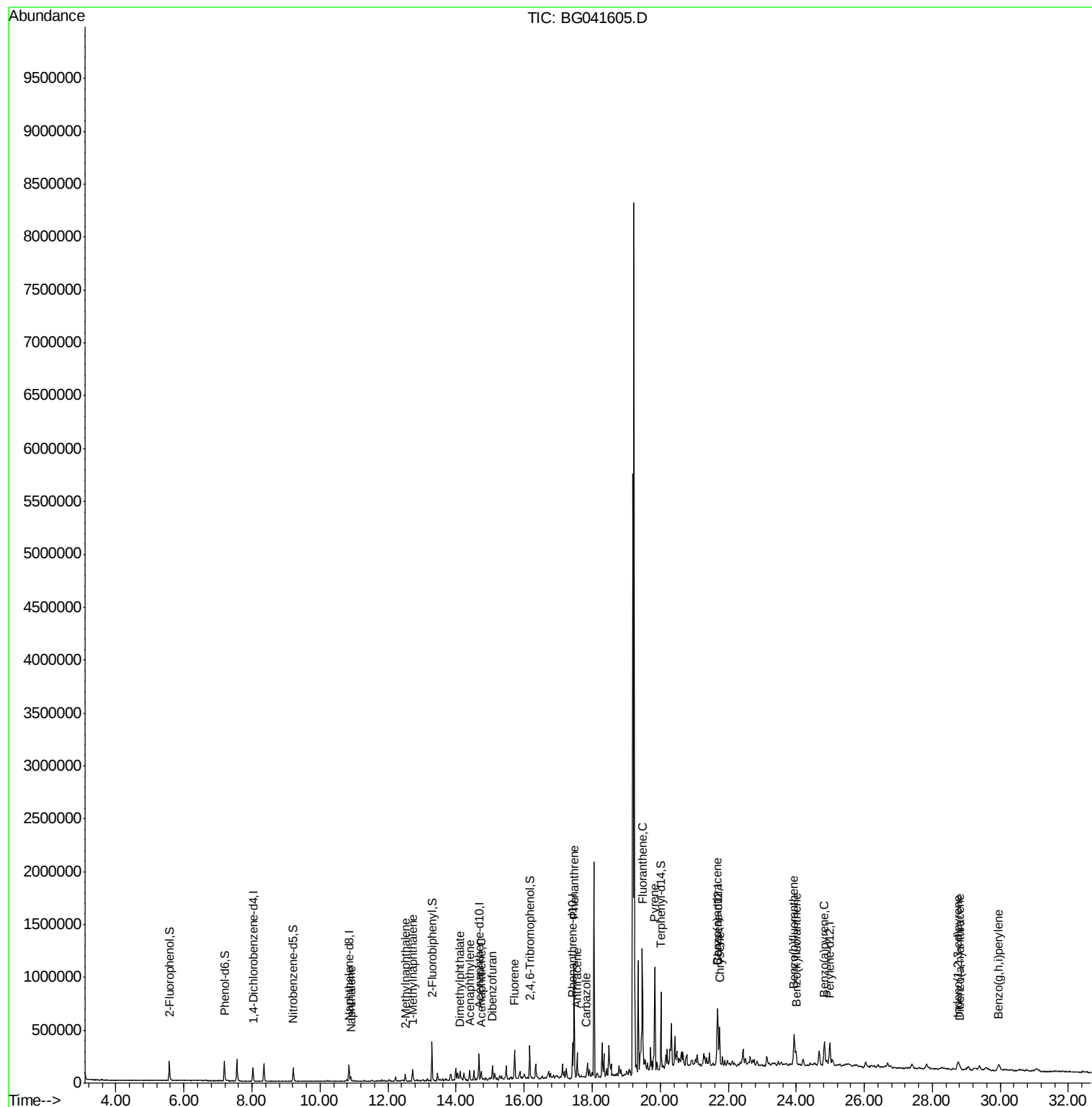
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG070319\
Data File : BG041605.D
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ALS Vial : 16 Sample Multiplier: 1

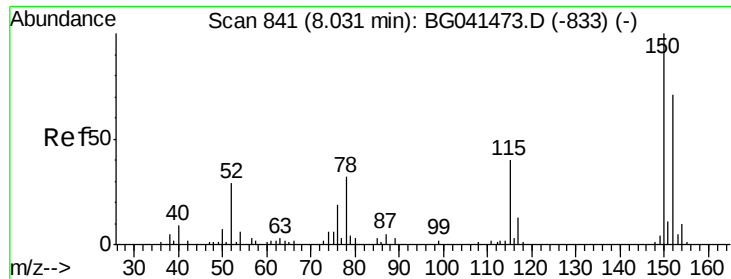
Instrument :
BNA_G
ClientSampleId :
HD-01-070219

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7/5/2019 8:43:19 AM

Quant Time: Jul 04 05:00:34 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 27 13:25:55 2019
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#1

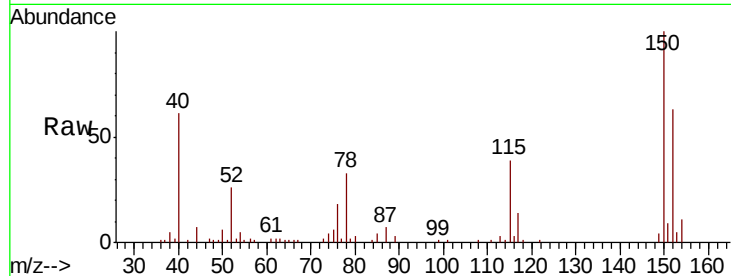
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.03 min Scan# 841
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Instrument :
BNA_G
ClientSampleId :
HD-01-070219

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.8	112.4	168.6
115	62.6	44.6	66.8

Manual Integrations
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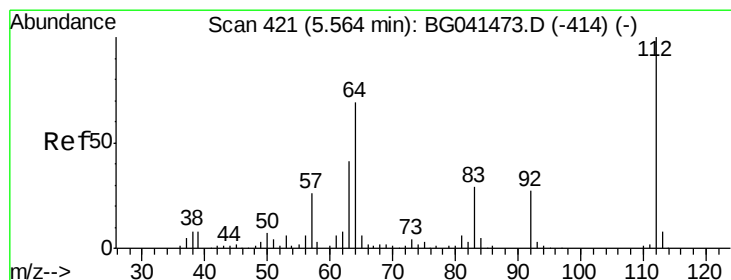
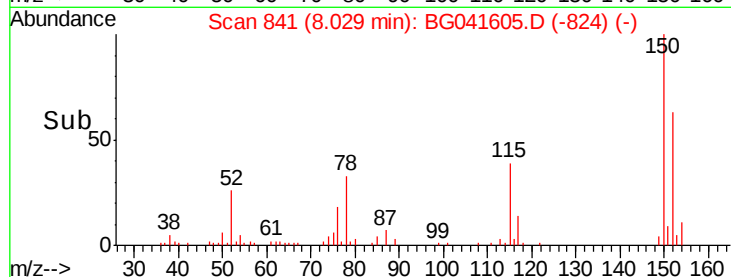
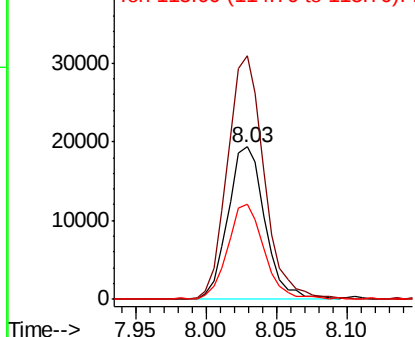


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

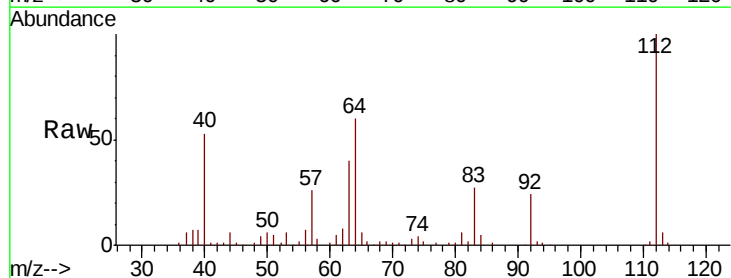
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 39.825 ng
RT: 5.57 min Scan# 422
Delta R.T. 0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.3	55.1	82.7
63	39.7	32.4	48.6

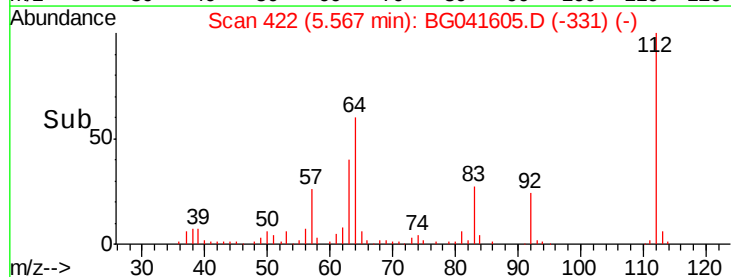
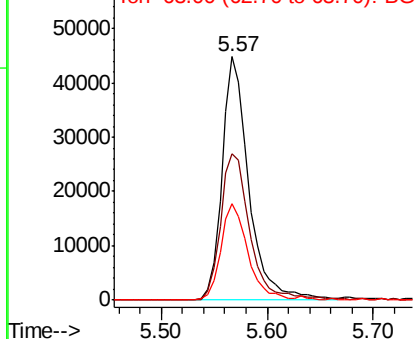


Abundance

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: 40.479 ng

RT: 7.19 min Scan# 698

Delta R.T. 0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

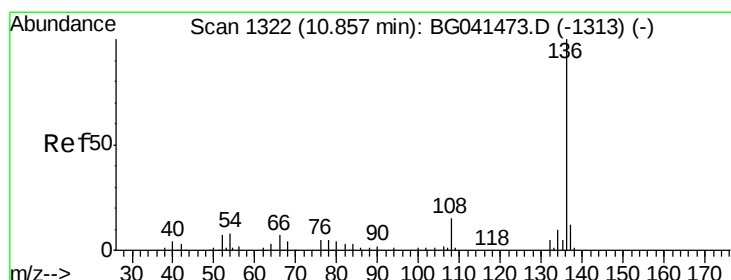
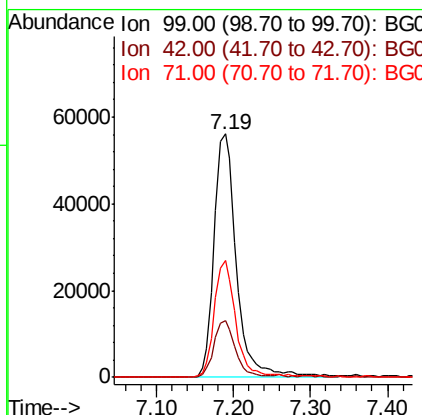
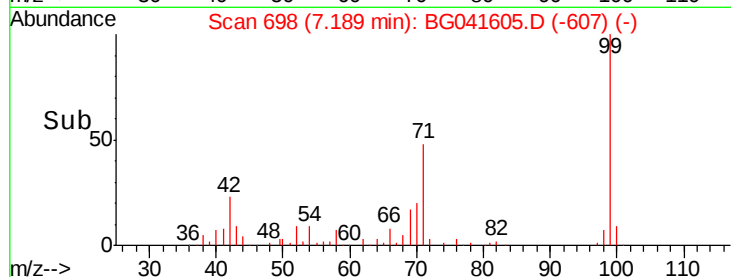
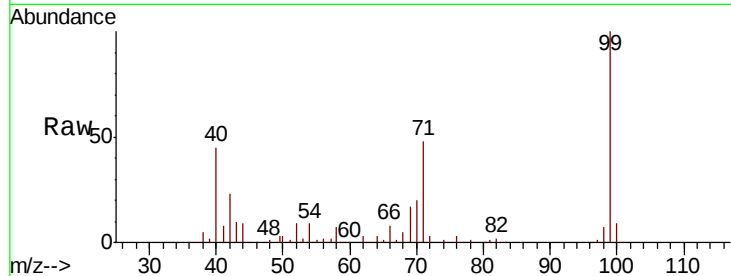
ClientSampleId :

HD-01-070219

Tot Ion:	99	Resp:	112510
Ion Ratio	Lower	Upper	
99	100		
42	23.3	19.0	28.6
71	47.8	37.4	56.2

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#21

Naphthalene-d8

Concen: 20.000 ng

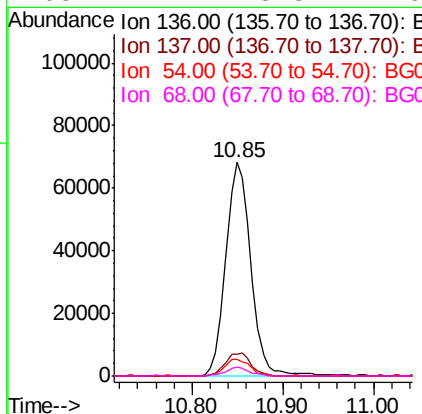
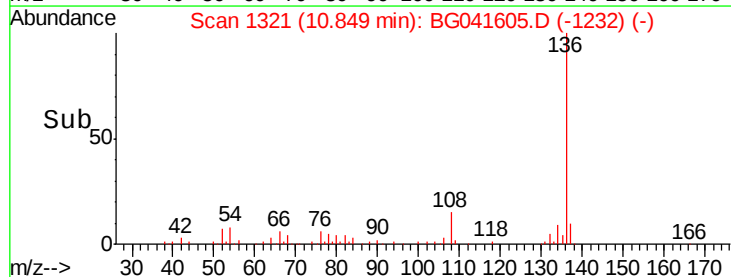
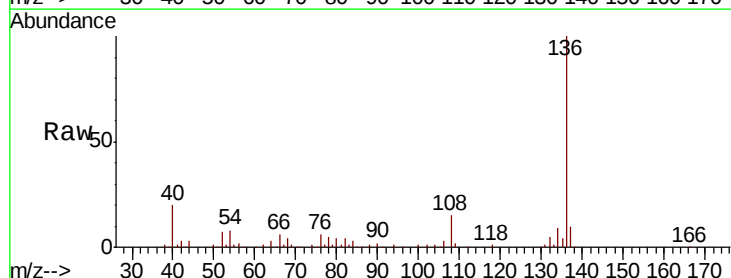
RT: 10.85 min Scan# 1321

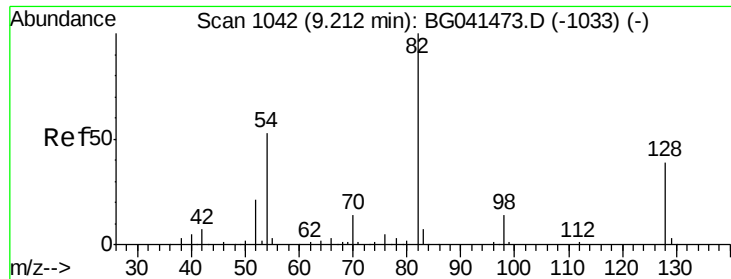
Delta R.T. -0.01 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Tgt Ion:	136	Resp:	131034
Ion Ratio	Lower	Upper	
136	100		
137	10.3	9.3	13.9
54	7.8	7.1	10.7
68	4.1	3.3	4.9





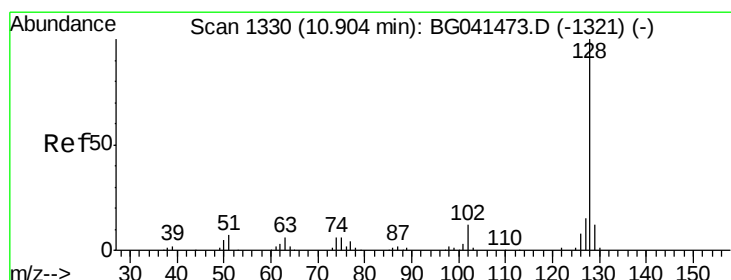
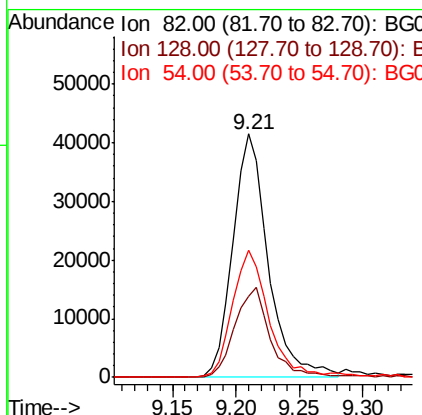
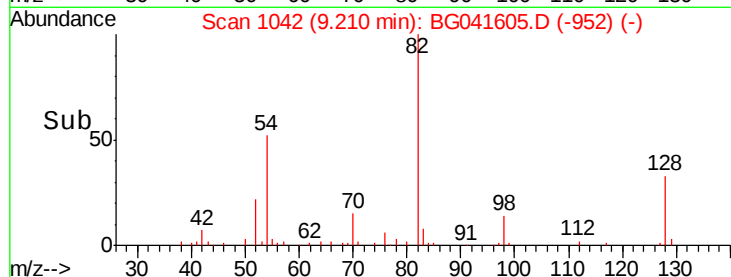
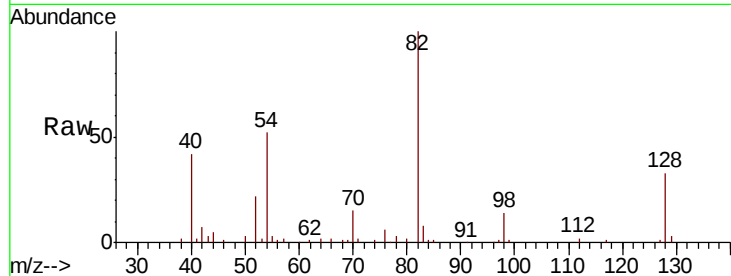
#23
Nitrobenzene-d5
Concen: 25.474 ng
RT: 9.21 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Instrument :
BNA_G
ClientSampleId :
HD-01-070219

Tot Ion	Ratio	Lower	Upper
82	100		
128	33.2	30.9	46.3
54	52.2	42.2	63.2

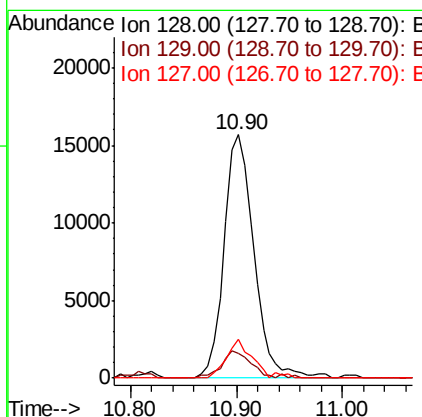
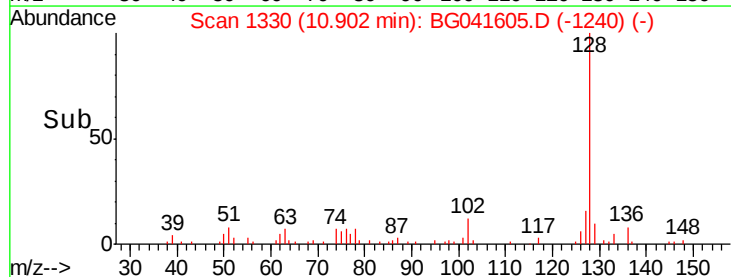
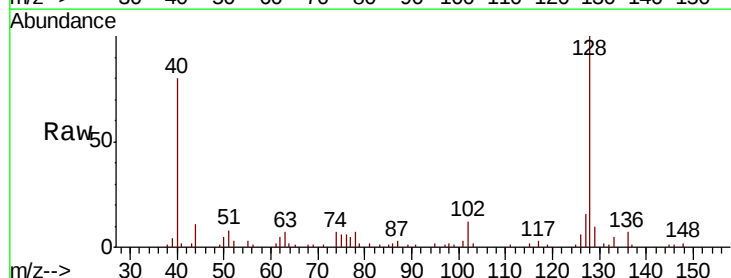
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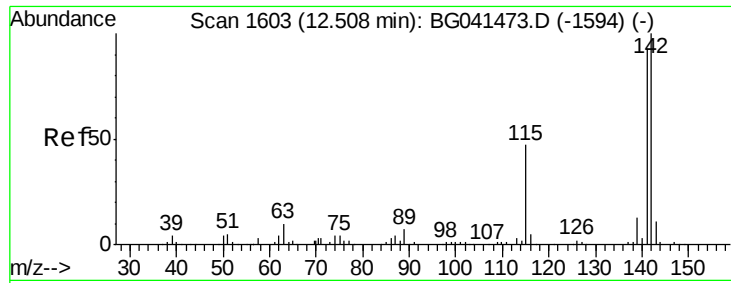
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#31
Naphthalene
Concen: 4.248 ng
RT: 10.90 min Scan# 1330
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.0	9.7	14.5
127	16.0	11.6	17.4





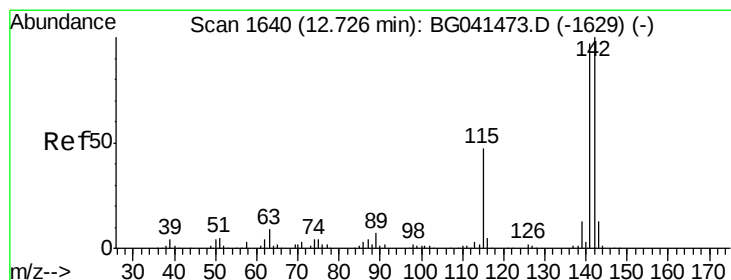
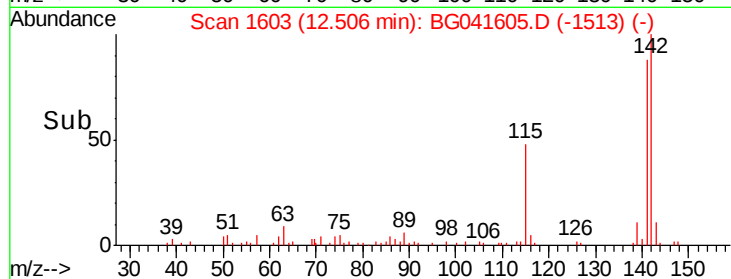
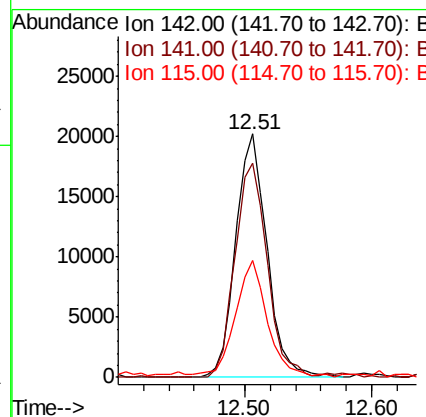
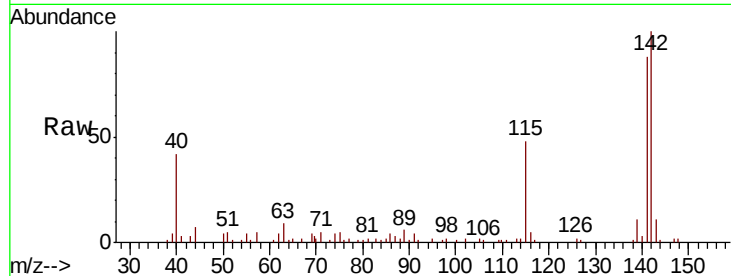
#37
2-Methylnaphthalene
Concen: 6.446 ng
RT: 12.51 min Scan# 1603
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Instrument :
BNA_G
ClientSampleId :
HD-01-070219

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.1	74.8	112.2
115	48.0	38.0	57.0

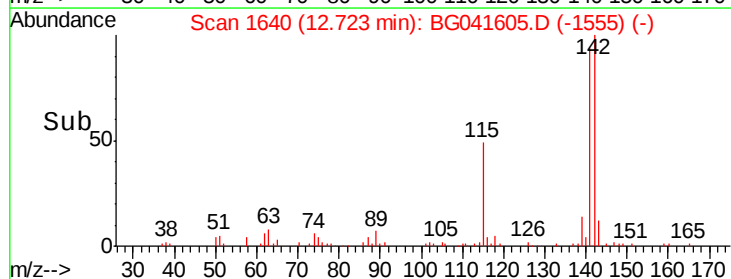
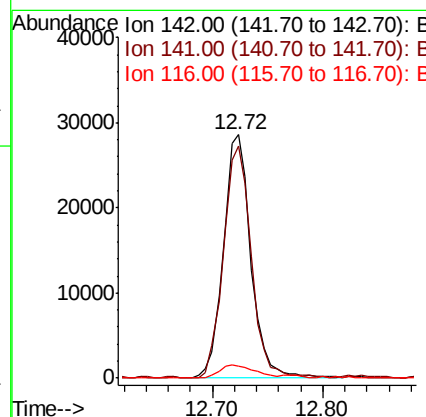
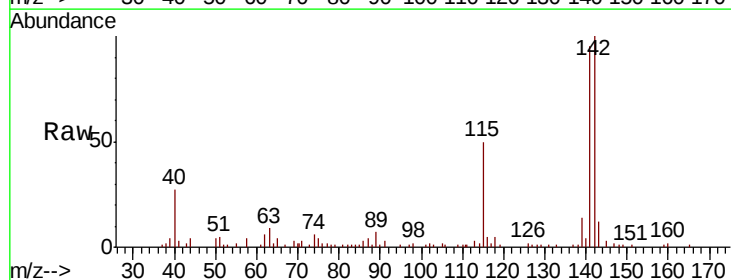
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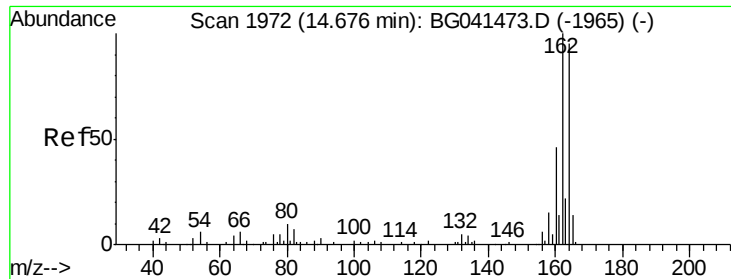
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#38
1-Methylnaphthalene
Concen: 9.718 ng
RT: 12.72 min Scan# 1640
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.1	77.4	116.2
116	4.8	3.8	5.8





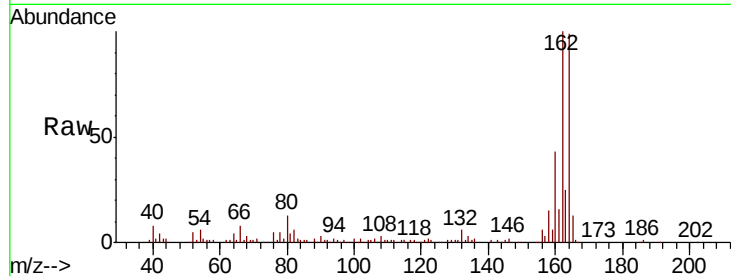
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.67 min Scan# 1972
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Instrument :
BNA_G
ClientSampleId :
HD-01-070219

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.8	84.4	126.6
160	43.4	38.8	58.2

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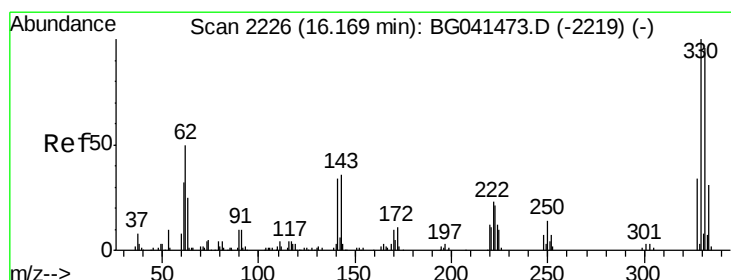
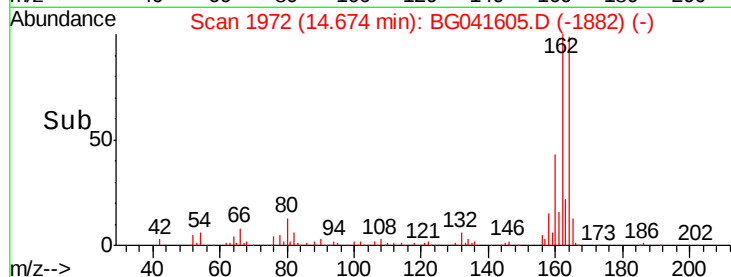
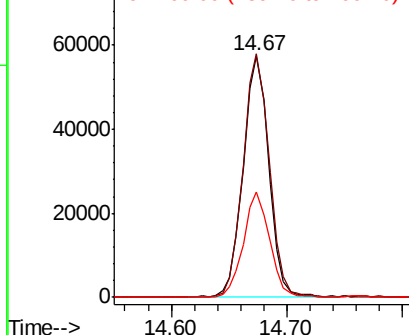


Abundance

Ion 164.00 (163.70 to 164.70): E

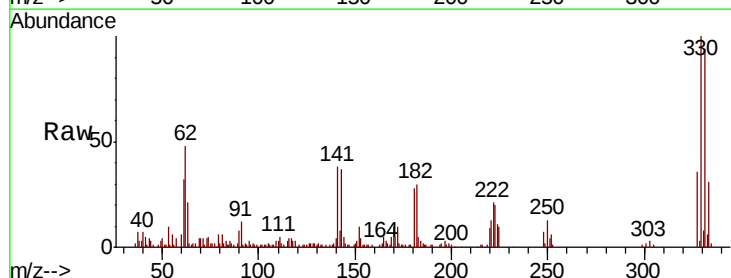
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 36.695 ng
RT: 16.17 min Scan# 2226
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.3	75.5	113.3
141	35.1	27.8	41.6

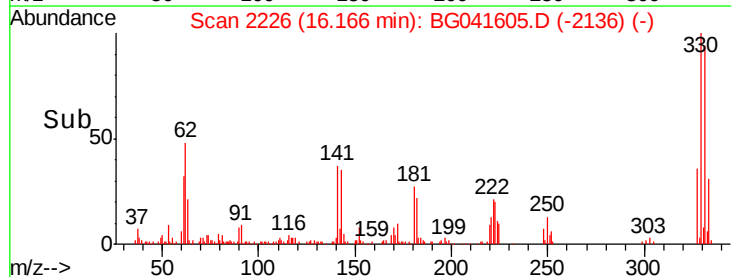
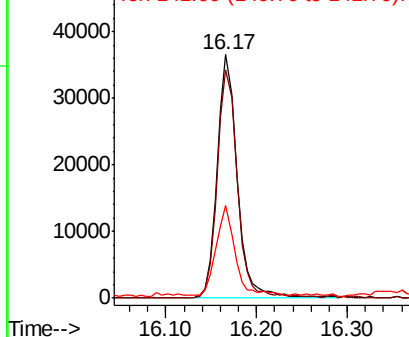


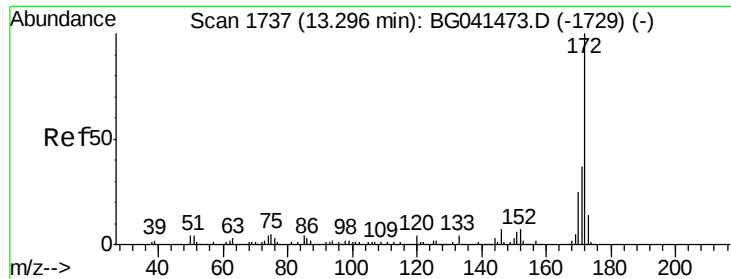
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 28.130 ng

RT: 13.29 min Scan# 1737

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

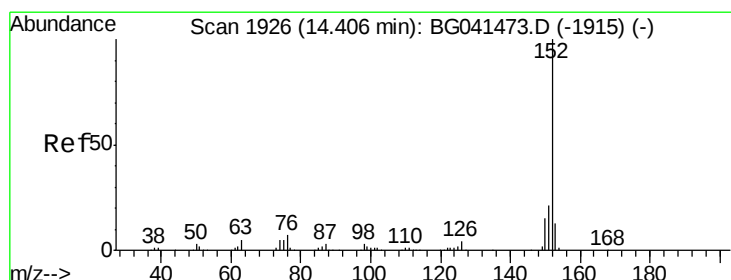
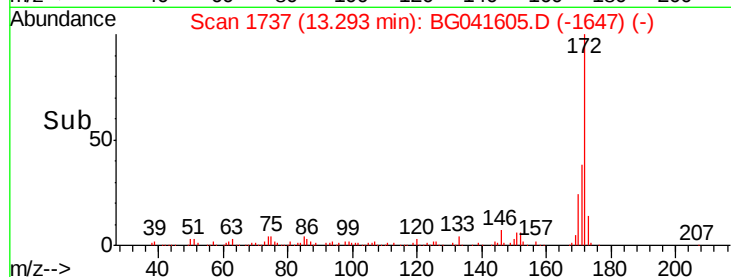
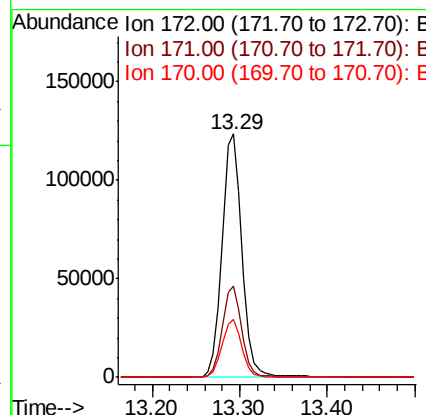
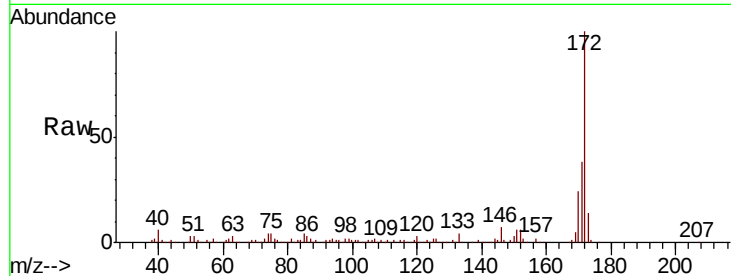
ClientSampleId :

HD-01-070219

Tot Ion:	172	Resp:	195203
Ion Ratio	Lower	Upper	
172	100		
171	37.5	29.6	44.4
170	23.9	20.0	30.0

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#49

Acenaphthylene

Concen: 5.964 ng

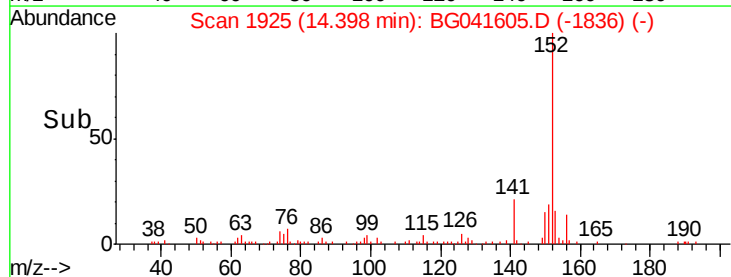
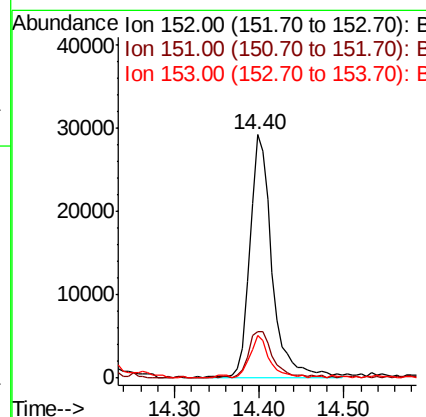
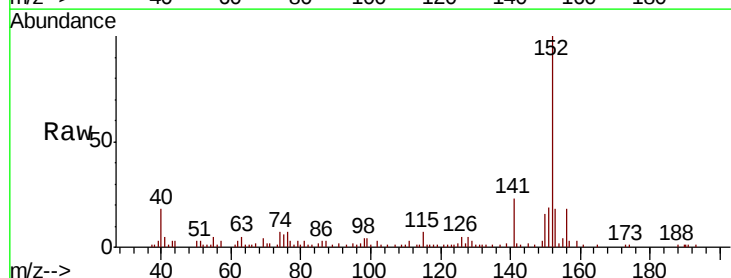
RT: 14.40 min Scan# 1925

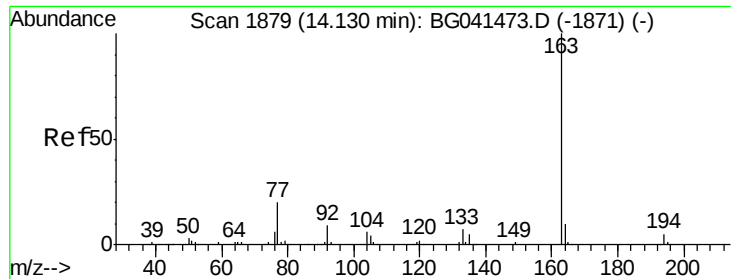
Delta R.T. -0.01 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Tgt Ion:	152	Resp:	53796
Ion Ratio	Lower	Upper	
152	100		
151	19.2	16.7	25.1
153	17.5	10.8	16.2#





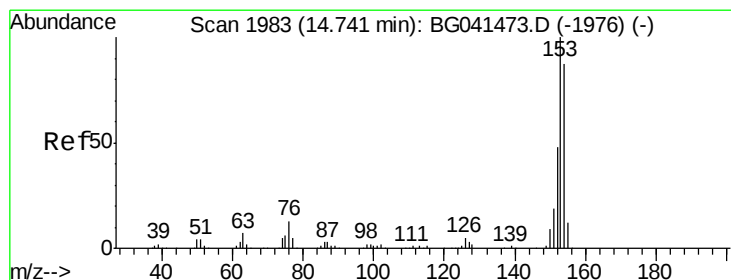
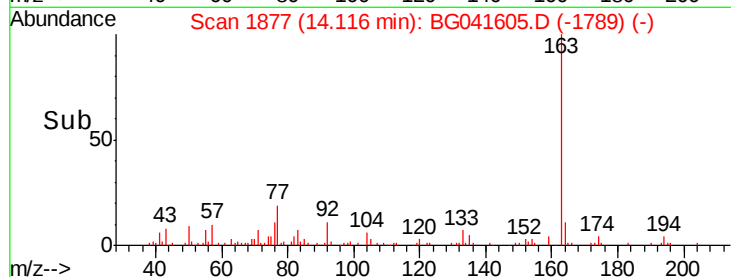
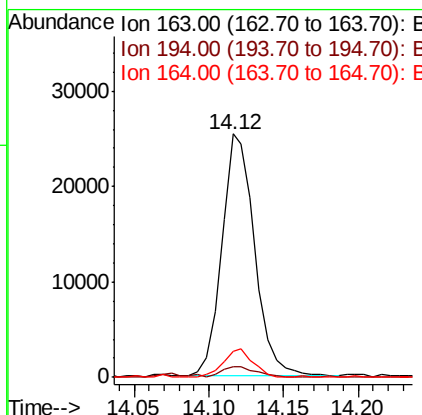
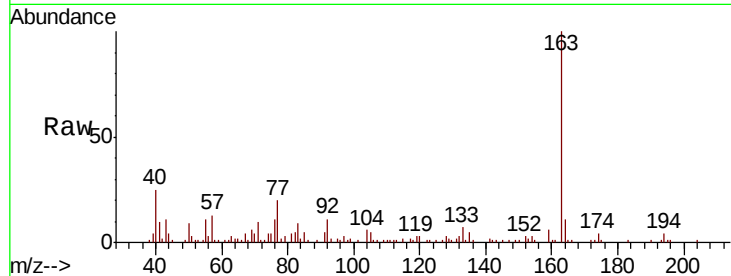
#50
Dimethylphthalate
Concen: 4.799 ng
RT: 14.12 min Scan# 1877
Delta R.T. -0.01 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Instrument :
BNA_G
ClientSampleId :
HD-01-070219

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.7	5.5
164	10.6	7.8	11.6

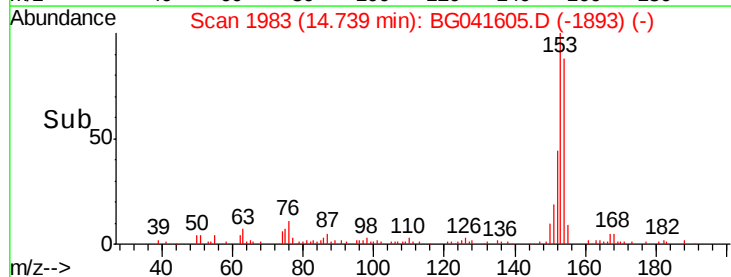
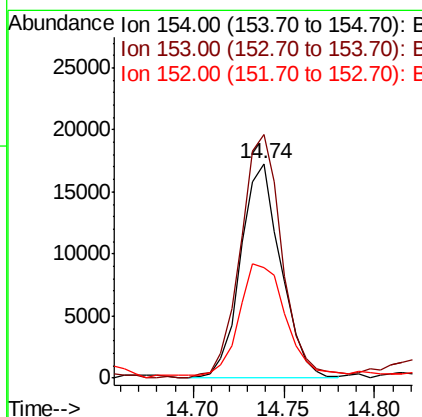
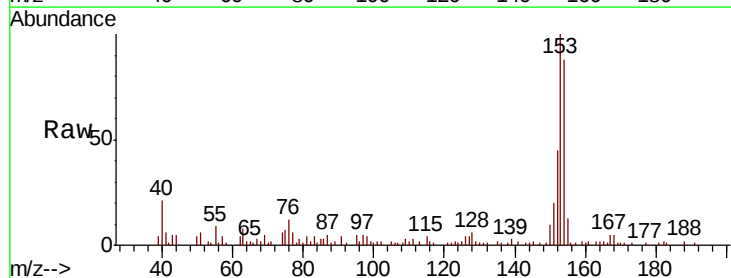
Manual Integrations
APPROVED

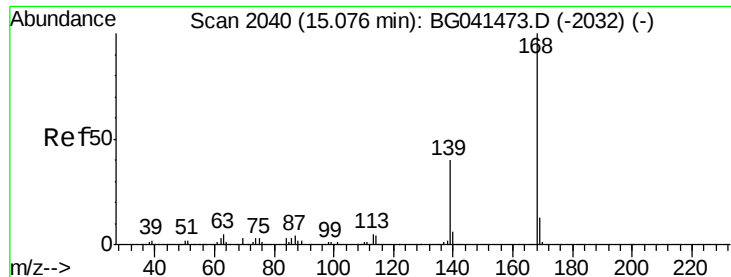
mohammad
7/5/2019 8:43:19 AM



#52
Acenaphthene
Concen: 4.992 ng
RT: 14.74 min Scan# 1983
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.4	92.2	138.4
152	51.3	44.1	66.1





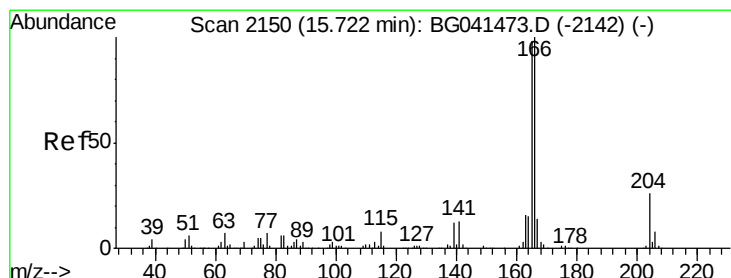
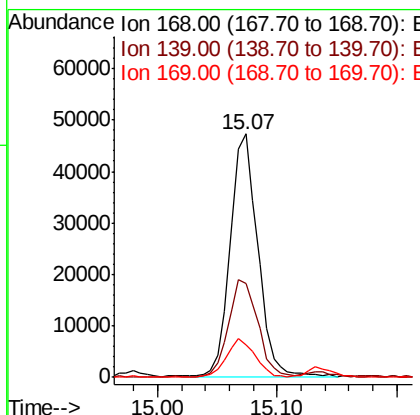
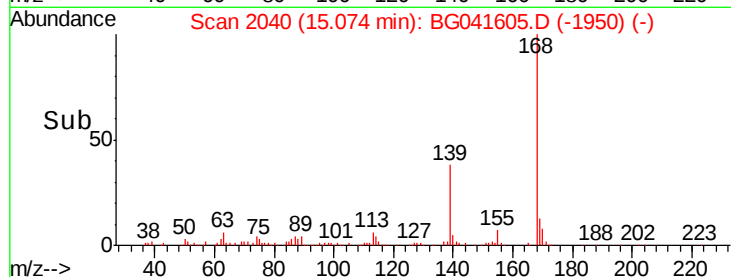
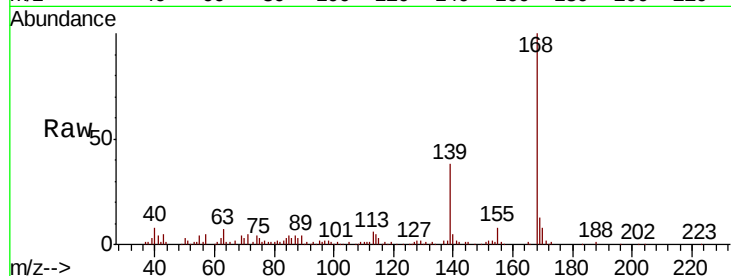
#55
Dibenzenofuran
Concen: 8.235 ng
RT: 15.07 min Scan# 2040
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Instrument :
BNA_G
ClientSampleId :
HD-01-070219

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.5	32.2	48.4
169	13.4	10.6	16.0

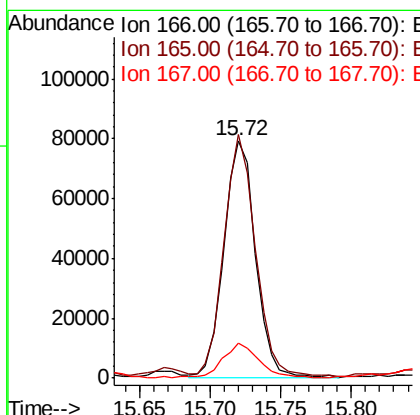
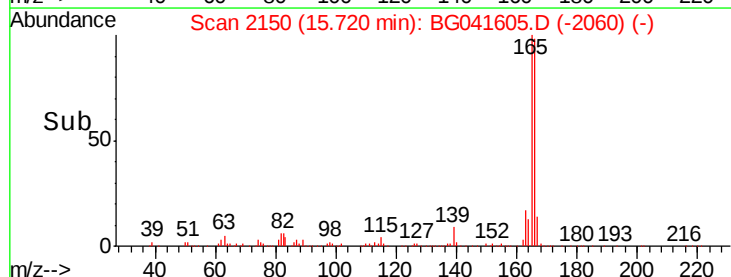
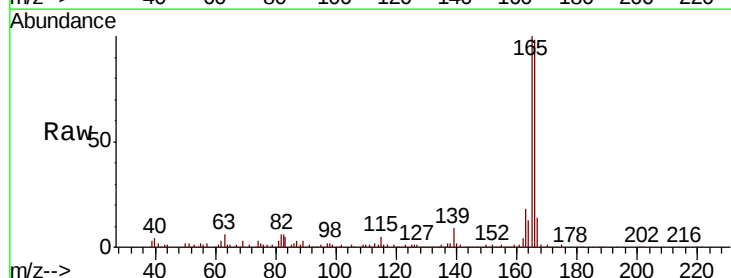
Manual Integrations
APPROVED

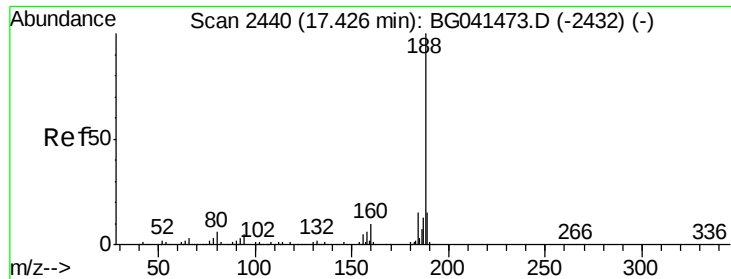
mohammad
7/5/2019 8:43:19 AM



#58
Fluorene
Concen: 16.615 ng
RT: 15.72 min Scan# 2150
Delta R.T. -0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.4	78.6	117.8
167	14.5	11.4	17.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.42 min Scan# 2440

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

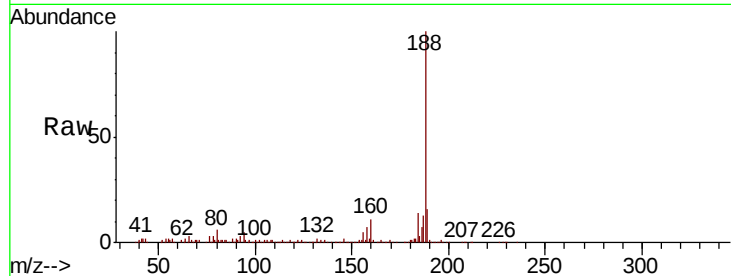
ClientSampleId :

HD-01-070219

Tot Ion:	188	Resp:	208061
Ion Ratio	Lower	Upper	
188	100		
94	4.9	3.8	5.8
80	6.1	4.8	7.2

Manual Integrations
APPROVED

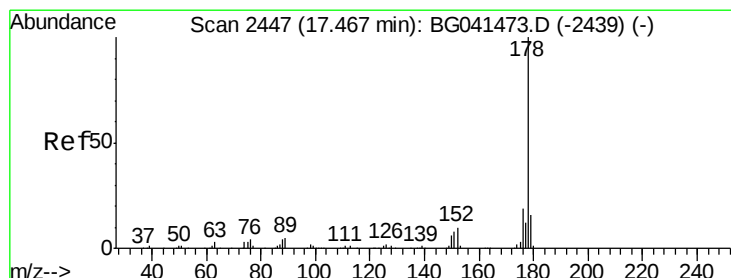
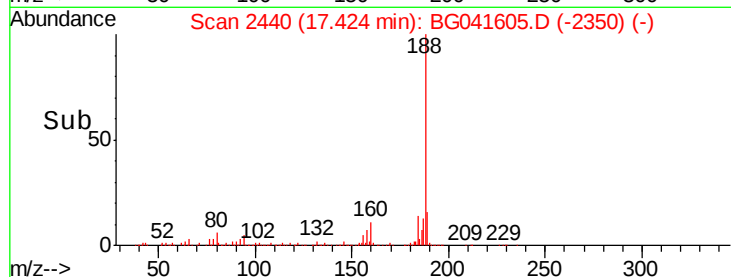
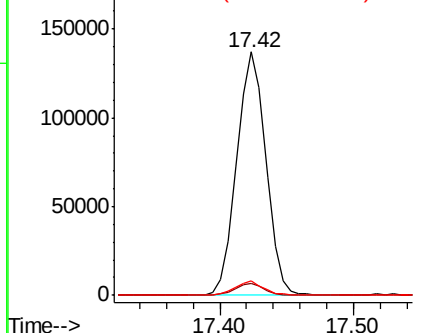
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#71

Phenanthrene

Concen: 61.205 ng

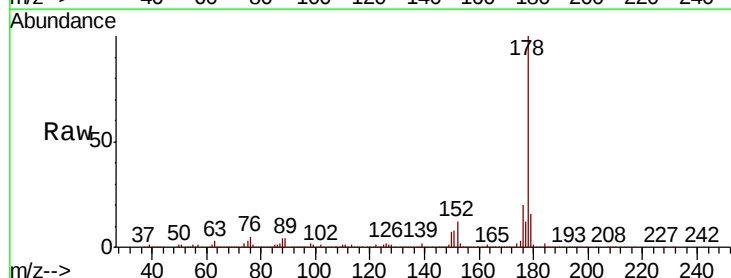
RT: 17.47 min Scan# 2448

Delta R.T. 0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

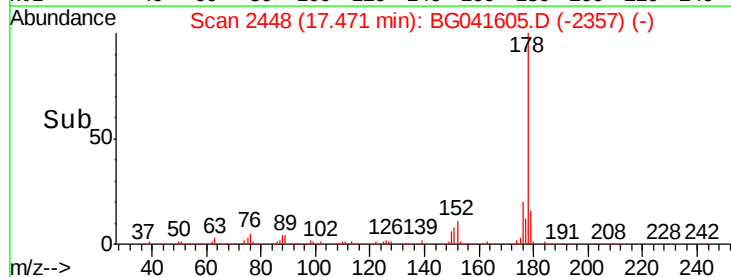
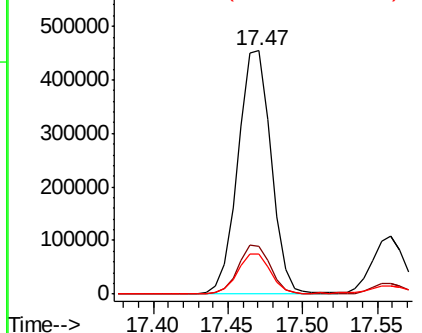
Tgt Ion:	178	Resp:	701618
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.4	23.0
179	16.4	13.0	19.4

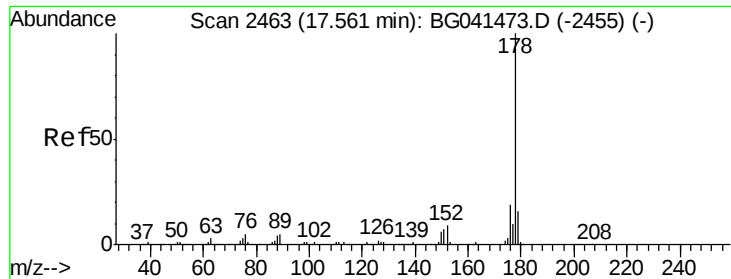


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 13.613 ng

RT: 17.56 min Scan# 2463

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

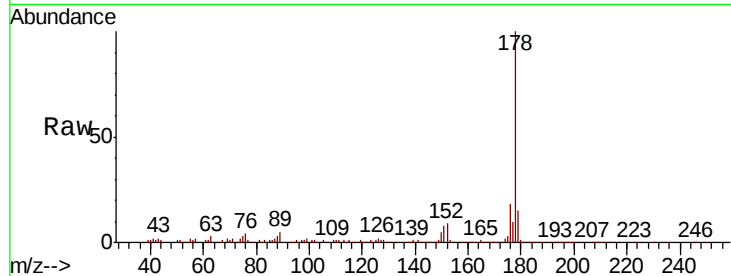
ClientSampleId :

HD-01-070219

Tot Ion:	178	Resp:	156139
Ion Ratio	Lower	Upper	
178	100		
176	17.6	14.8	22.2
179	14.7	12.8	19.2

Manual Integrations
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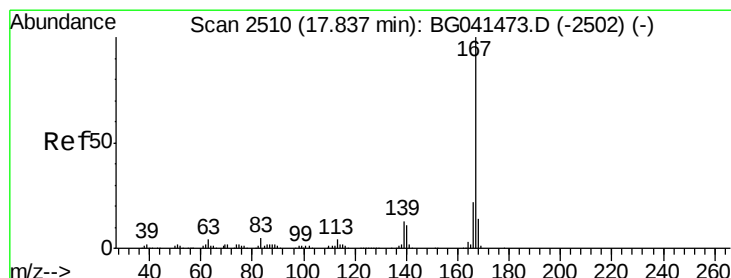
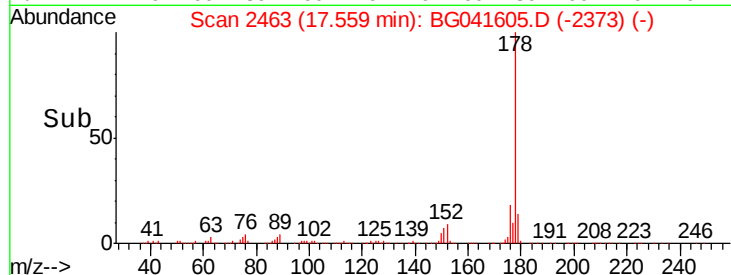
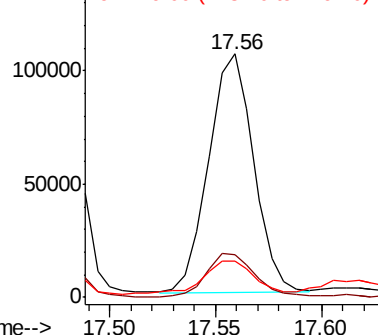


Abundance

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



#73

Carbazole

Concen: 2.998 ng

RT: 17.84 min Scan# 2510

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

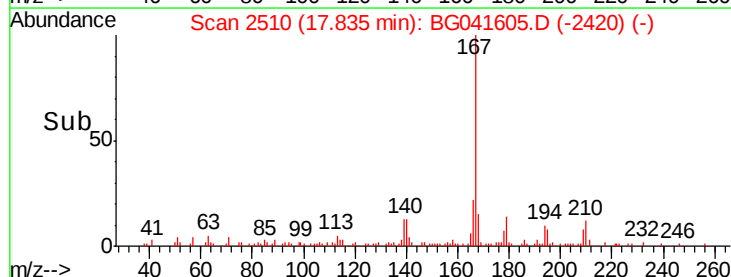
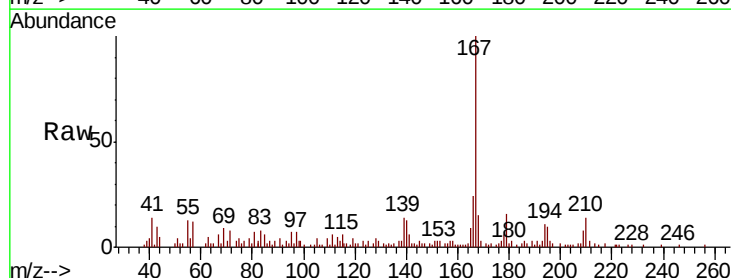
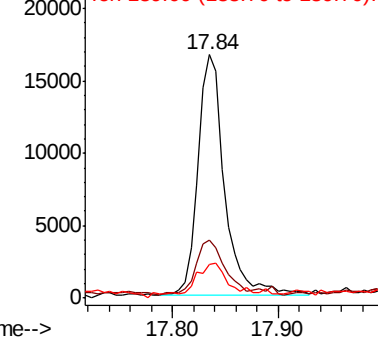
Tgt Ion:	167	Resp:	29231
Ion Ratio	Lower	Upper	
167	100		
166	24.0	17.8	26.6
139	13.7	10.8	16.2

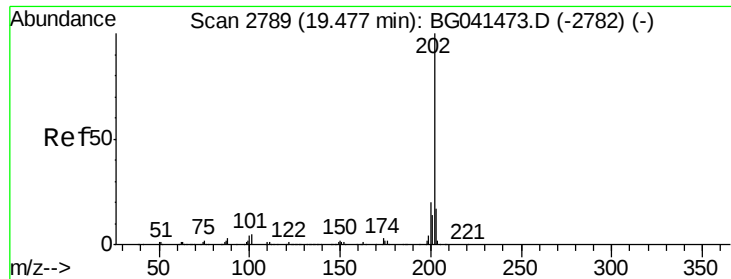
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 45.045 ng

RT: 19.47 min Scan# 2789

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

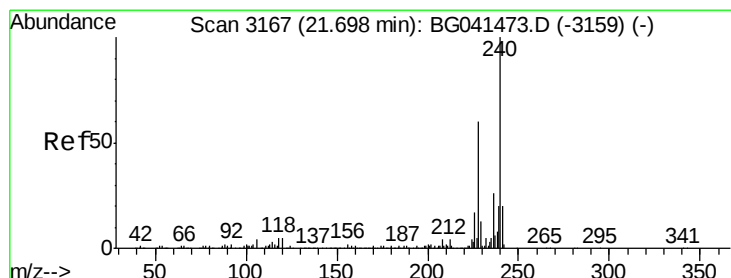
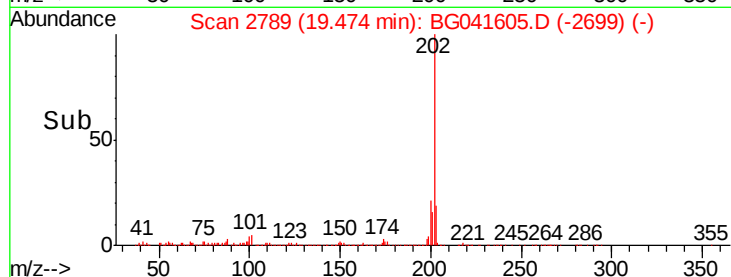
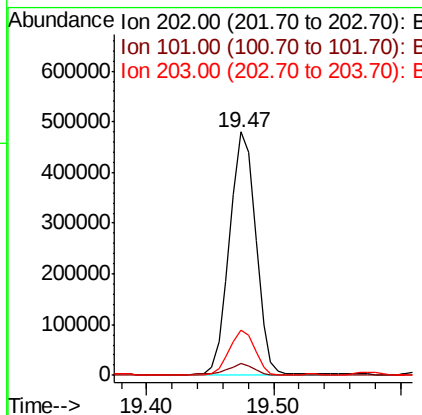
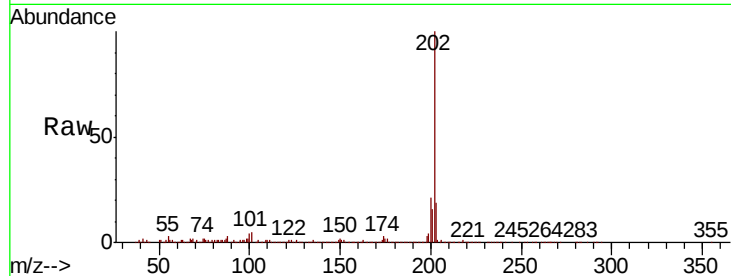
ClientSampleId :

HD-01-070219

Tot Ion	Ratio	Resp	Lower	Upper
202	100	688453		
101	5.1	0.0	24.9	
203	18.6	0.0	37.5	

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

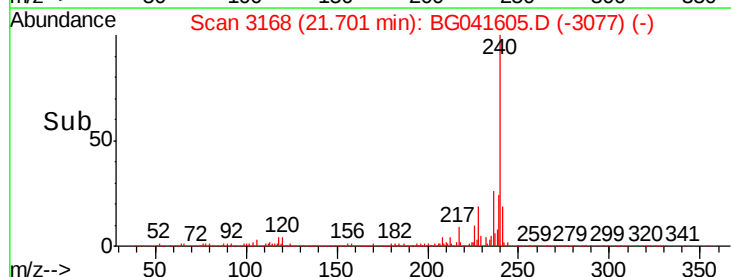
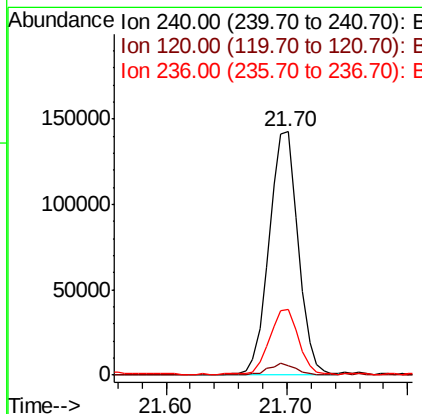
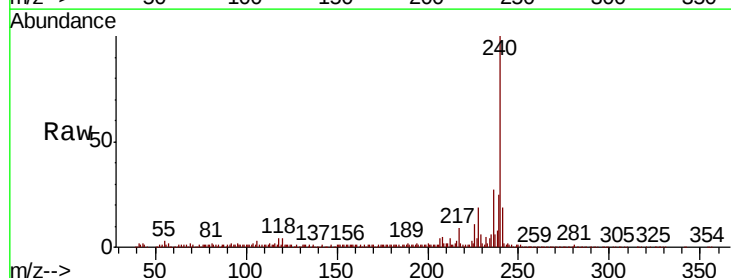
RT: 21.70 min Scan# 3168

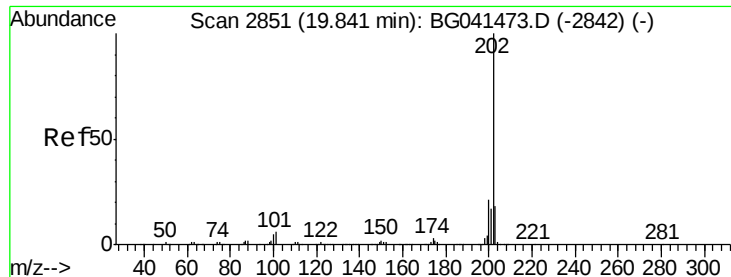
Delta R.T. 0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	235068		
120	4.0	3.7	5.5	
236	26.8	20.8	31.2	





#78

Pvrene

Concen: 41.714 ng

RT: 19.84 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

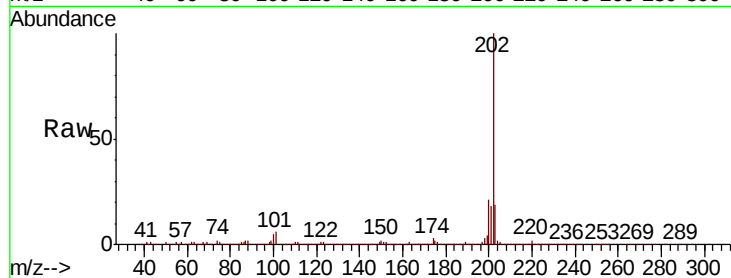
ClientSampleId :

HD-01-070219

Tot Ion:	202	Resp:	669394
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.8	25.2
203	19.0	14.2	21.4

Manual Integrations
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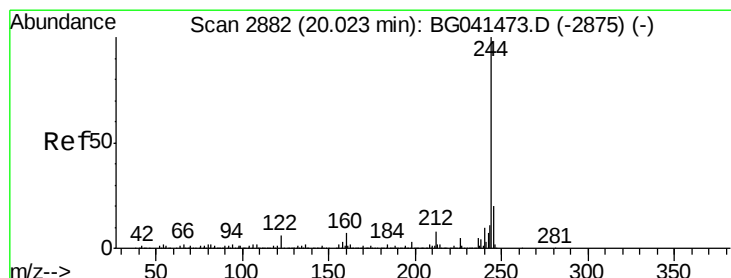
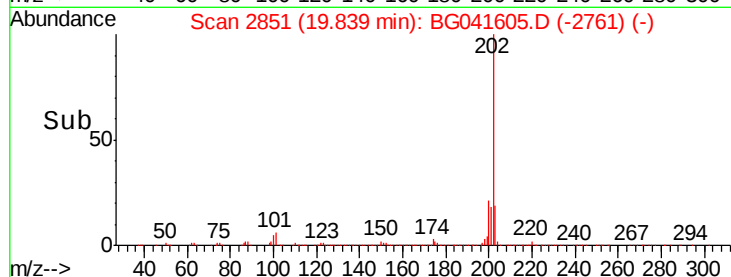
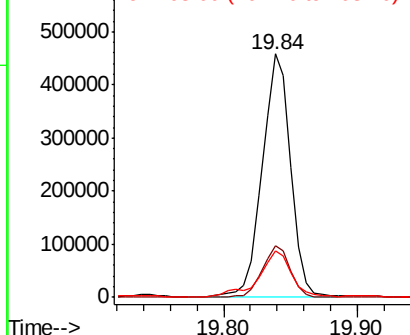


Abundance

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: 31.137 ng

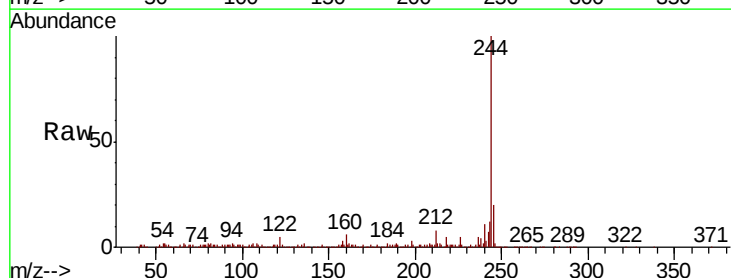
RT: 20.03 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Tgt Ion:	244	Resp:	344420
Ion Ratio	Lower	Upper	
244	100		
212	7.7	6.2	9.4
122	4.6	4.8	7.2#

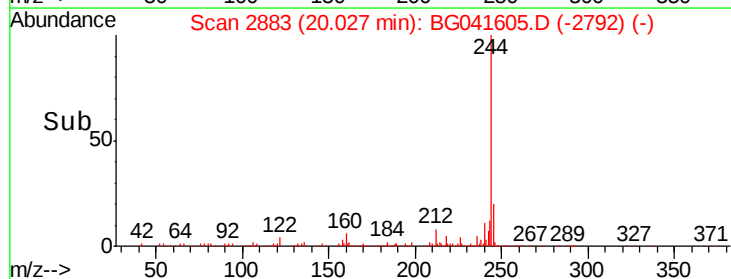
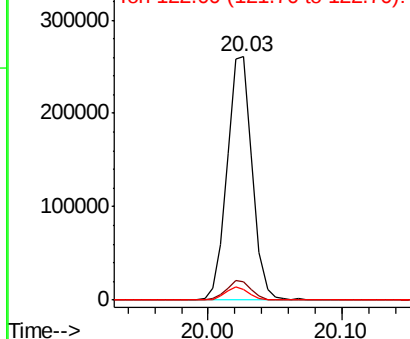


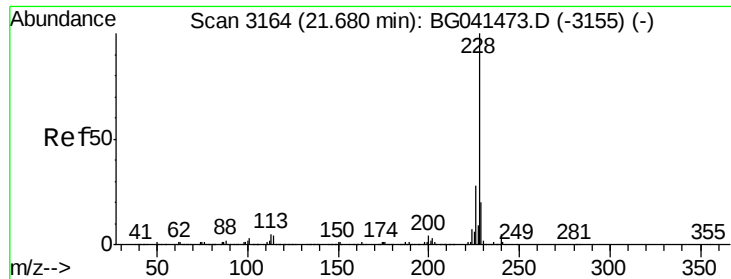
Abundance

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: 19.608 ng

RT: 21.68 min Scan# 3164

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

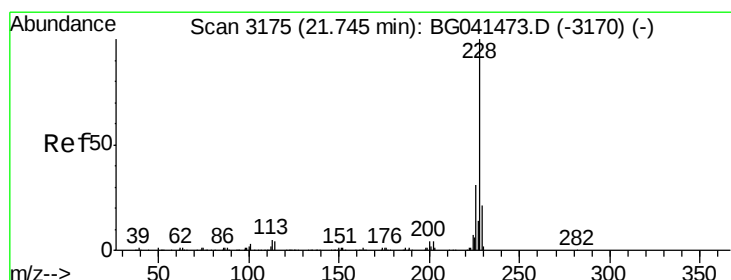
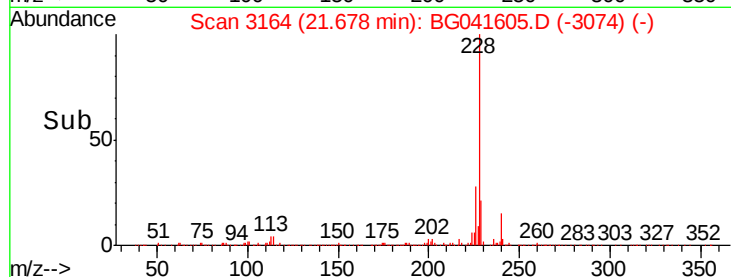
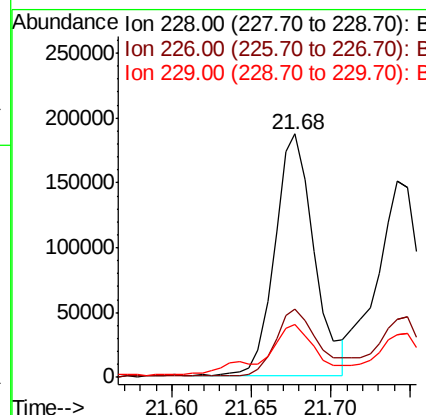
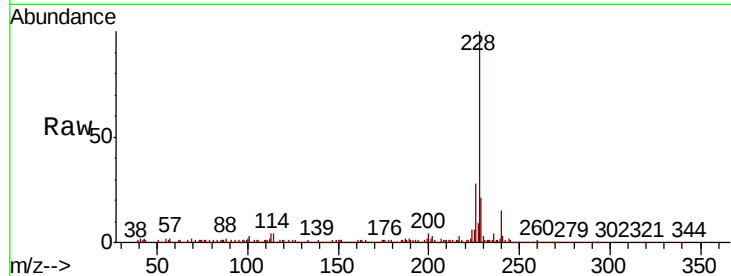
ClientSampleId :

HD-01-070219

Tot Ion:	228	Resp:	320450
Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	21.5	16.1	24.1

Manual Integrations
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mohammad
7/5/2019 8:43:19 AM



#83

Chrysene

Concen: 17.848 ng

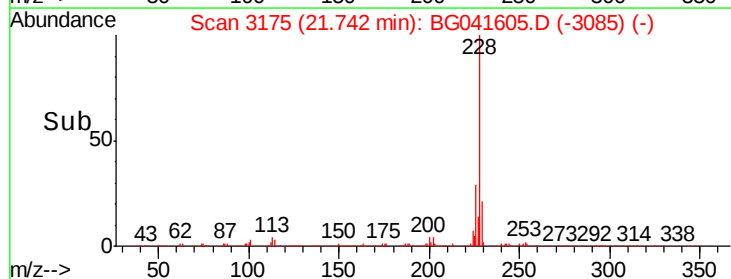
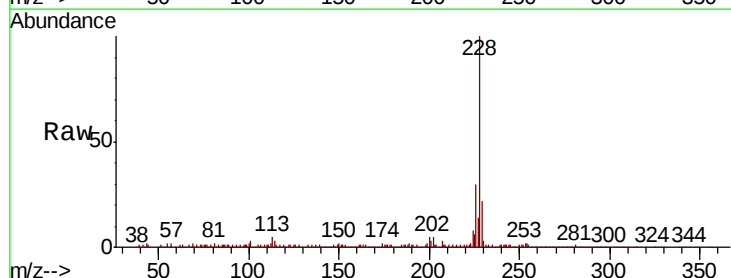
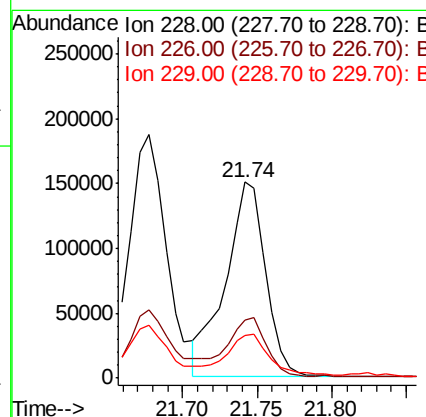
RT: 21.74 min Scan# 3175

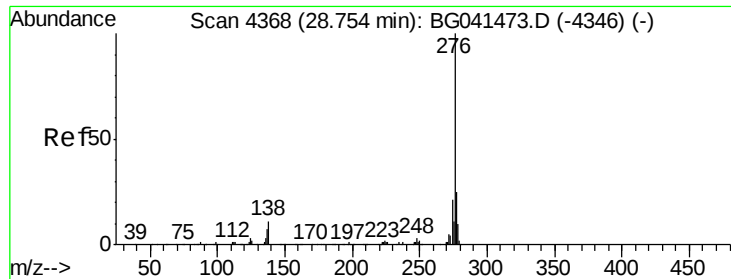
Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Tgt Ion:	228	Resp:	282338
Ion	Ratio	Lower	Upper
228	100		
226	29.6	25.0	37.4
229	22.0	16.8	25.2





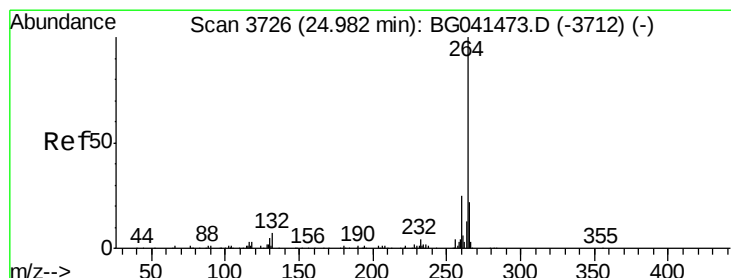
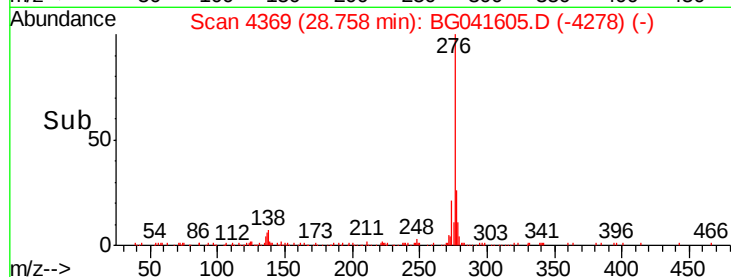
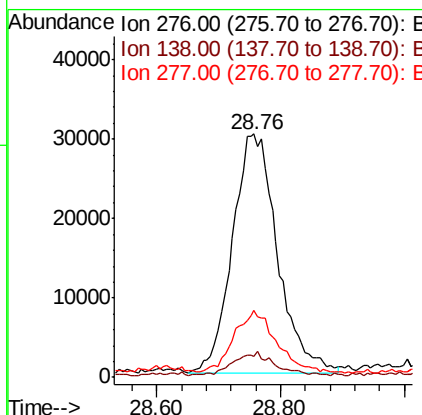
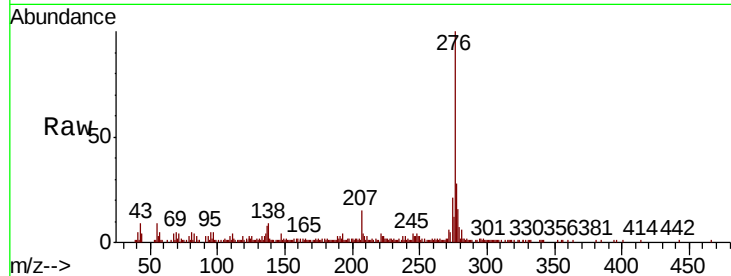
#86
Indeno(1,2,3-cd)pyrene
Concen: 8.003 ng
RT: 28.76 min Scan# 4369
Delta R.T. 0.00 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Instrument :
BNA_G
ClientSampleId :
HD-01-070219

Tot Ion	Ratio	Lower	Upper
276	100		
138	9.1	4.9	7.3#
277	24.2	20.4	30.6

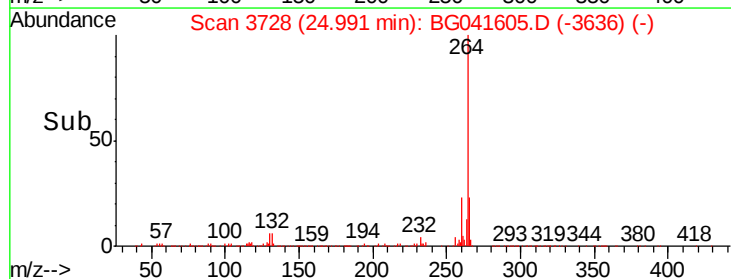
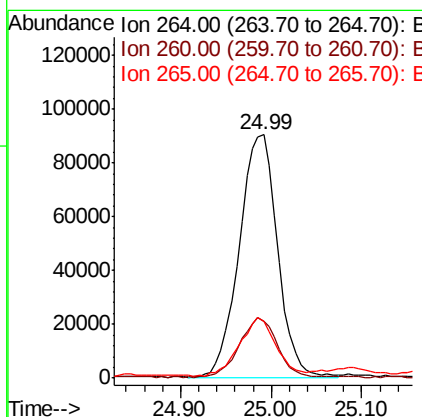
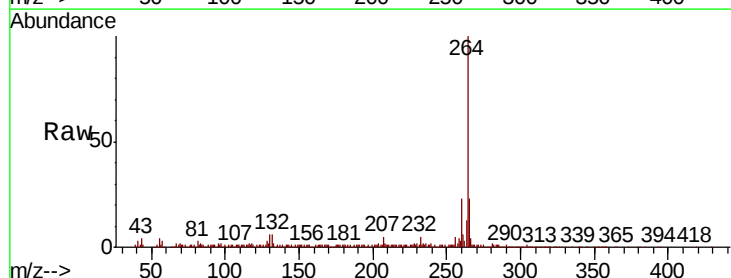
Manual Integrations
APPROVED

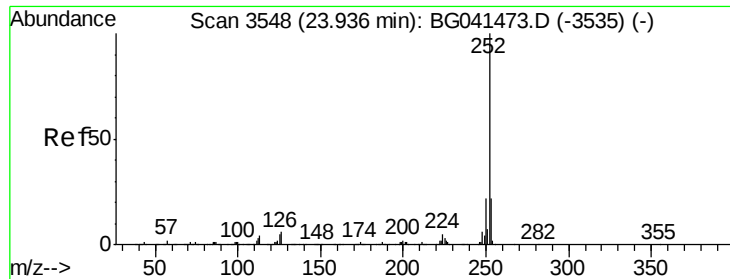
mohammad
7/5/2019 8:43:19 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 24.99 min Scan# 3728
Delta R.T. 0.01 min
Lab File: BG041605.D
Acq: 4 Jul 2019 00:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.7	29.5
265	23.3	17.4	26.2





#88

Benzo(b)fluoranthene

Concen: 20.520 ng

RT: 23.93 min Scan# 3548

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

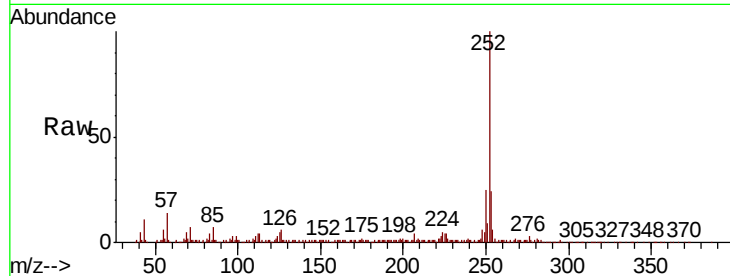
ClientSampled :

HD-01-070219

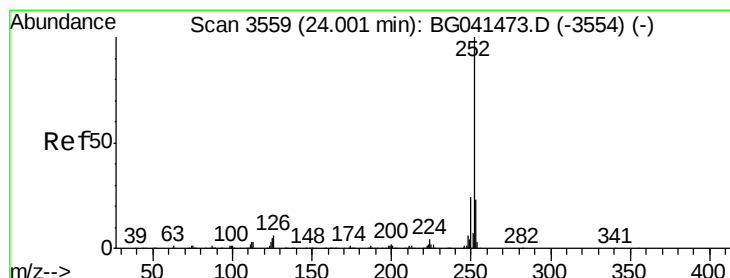
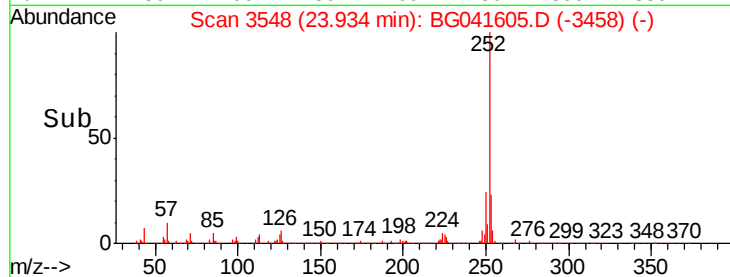
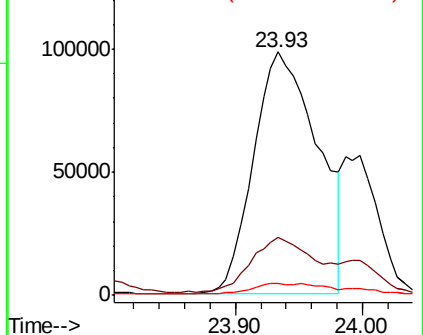
Tot Ion:	252	Resp:	345332
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.0	27.0
125	5.2	3.8	5.8

Manual Integrations
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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: 6.485 ng m

RT: 24.00 min Scan# 3559

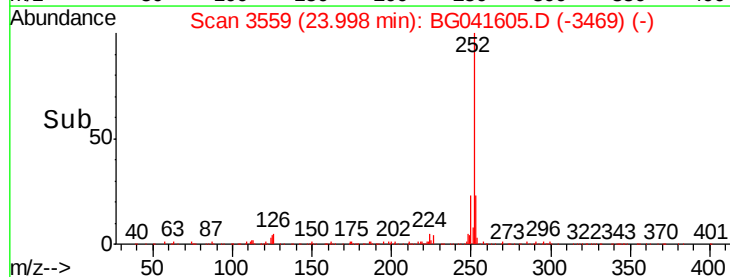
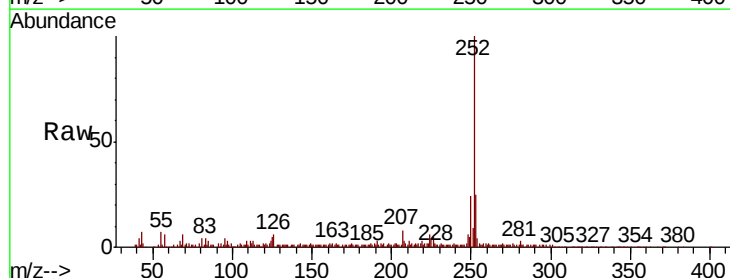
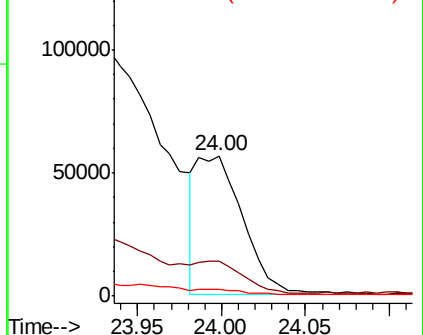
Delta R.T. -0.00 min

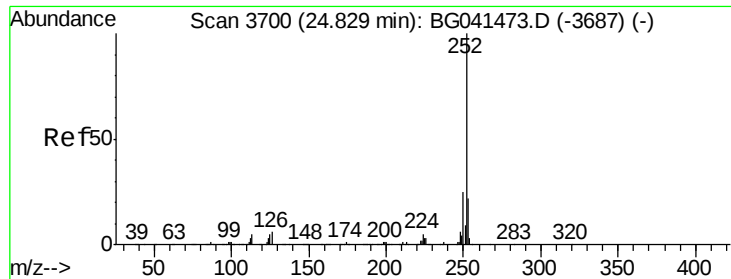
Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Tgt Ion:	252	Resp:	107155
Ion Ratio	Lower	Upper	
252	100		
253	24.9	18.3	27.5
125	5.0	4.0	6.0

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





#90

Benzo(a)pyrene

Concen: 16.852 ng

RT: 24.83 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BG041605.D

Acq: 4 Jul 2019 00:51

Instrument :

BNA_G

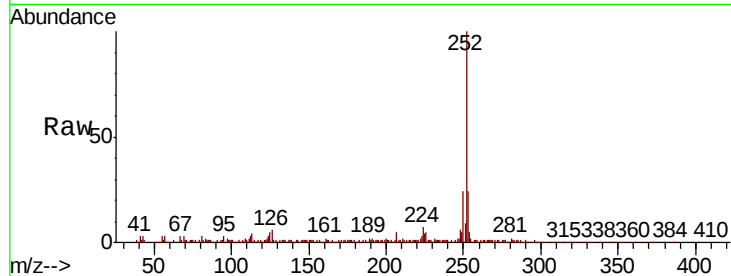
ClientSampleId :

HD-01-070219

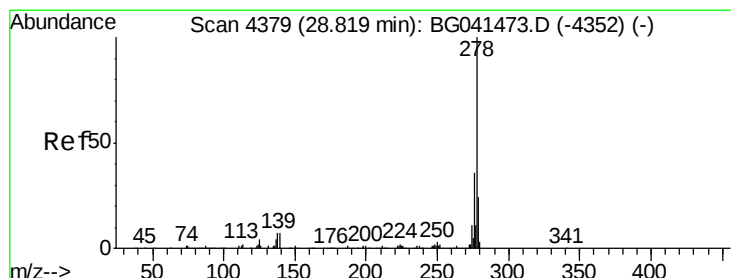
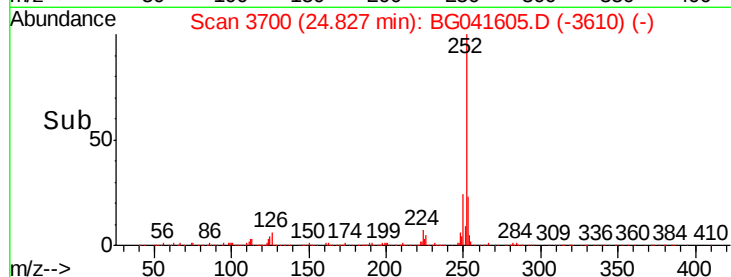
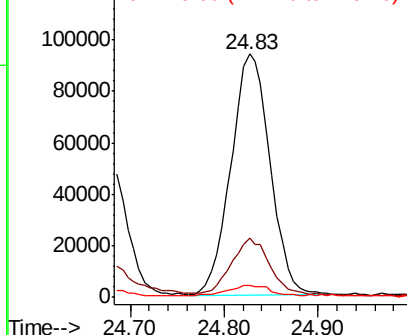
Tot Ion:	252	Resp:	269361
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.5	26.3
125	4.7	4.4	6.6

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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: 2.538 ng m

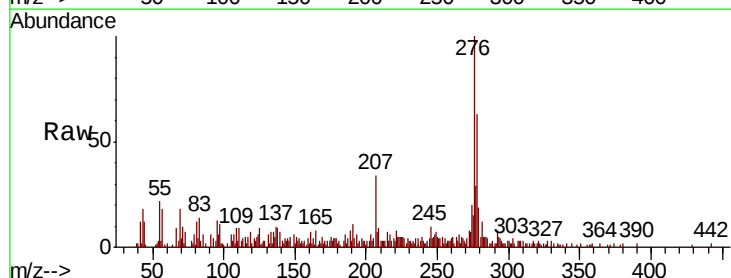
RT: 28.80 min Scan# 4377

Delta R.T. -0.01 min

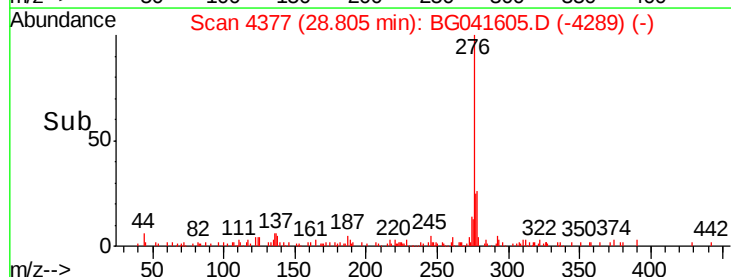
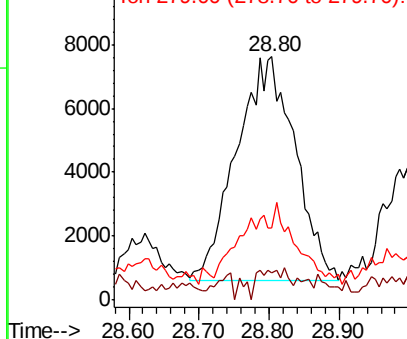
Lab File: BG041605.D

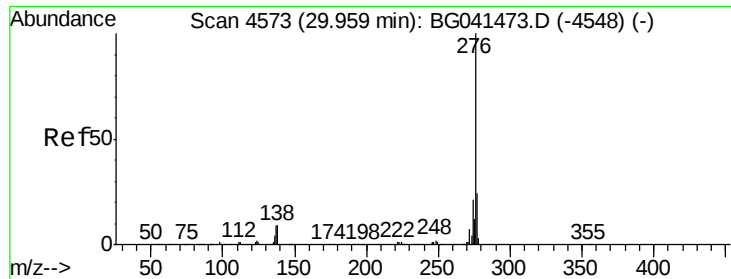
Acq: 4 Jul 2019 00:51

Tgt Ion:	278	Resp:	40644
Ion Ratio	Lower	Upper	
278	100		
139	11.4	5.9	8.9#
279	29.4	18.9	28.3#



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: 8.178 ng
 RT: 29.94 min Scan# 4570
 Delta R.T. -0.02 min
 Lab File: BG041605.D
 Acq: 4 Jul 2019 00:51

Instrument :
 BNA_G
 ClientSampleId :
 HD-01-070219

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.2
138	12.1	7.6	11.4

Manual Integrations
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