

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111414\
 Data File : BF075602.D
 Acq On : 17 Nov 2014 1:50
 Operator : TP / JJ
 Sample : F4755-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HUDPARK-B3-SS2(2-2.8)

Manual Integrations
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 11/17/2014 7:40:35 PM

Quant Time: Nov 17 06:49:39 2014
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111214.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 17 05:54:27 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.56	152	25671	20.00	ng	0.00
21) Naphthalene-d8	9.13	136	107022	20.00	ng	0.00
38) Acenaphthene-d10	11.32	164	59061	20.00	ng	0.00
63) Phenanthrene-d10	13.17	188	98776	20.00	ng	0.00
75) Chrysene-d12	16.46	240	102489	20.00	ng	-0.01
86) Perylene-d12	18.20	264	109444	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.85	112	199616	137.37	ng	0.00
7) Phenol-d6	7.11	99	257033	147.09	ng	0.00
23) Nitrobenzene-d5	8.24	82	139148	95.32	ng	0.00
41) 2,4,6-Tribromophenol	12.30	330	64330	130.04	ng	0.00
44) 2-Fluorobiphenyl	10.48	172	283724	86.81	ng	0.00
78) Terphenyl-d14	15.16	244	279911	73.53	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	9.16	128	31122	6.52	ng	99
37) 2-Methylnaphthalene	10.02	142	7949	2.44	ng	95
49) Dimethylphthalate	10.99	163	20176	5.00	ng	97
51) Acenaphthene	11.35	154	32392	10.45	ng	98
54) Dibenzofuran	11.57	168	25149	5.68	ng	98
57) Fluorene	12.00	166	37223	10.39	ng	99
70) Phenanthrene	13.20	178	335414	64.52	ng	99
71) Anthracene	13.26	178	127449	23.72	ng	99
72) Carbazole	13.47	167	40265	7.66	ng	98
74) Fluoranthene	14.68	202	378256	67.93	ng	96
77) Pyrene	14.96	202	326205	54.75	ng	100
80) Benzo(a)anthracene	16.45	228	184390	34.25	ng	97
82) Chrysene	16.49	228	138239	29.69	ng	98
85) Indeno(1,2,3-cd)pyrene	19.75	276	74053	13.11	ng	# 100
87) Benzo(b)fluoranthene	17.73	252	179778m	30.72	ng	
88) Benzo(k)fluoranthene	17.76	252	57769m	11.00	ng	
89) Benzo(a)pyrene	18.13	252	137376m	26.24	ng	
90) Dibenzo(a,h)anthracene	19.77	278	22014	4.03	ng	96
91) Benzo(a,h,i)perylene	20.22	276	66976	12.86	ng	97

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

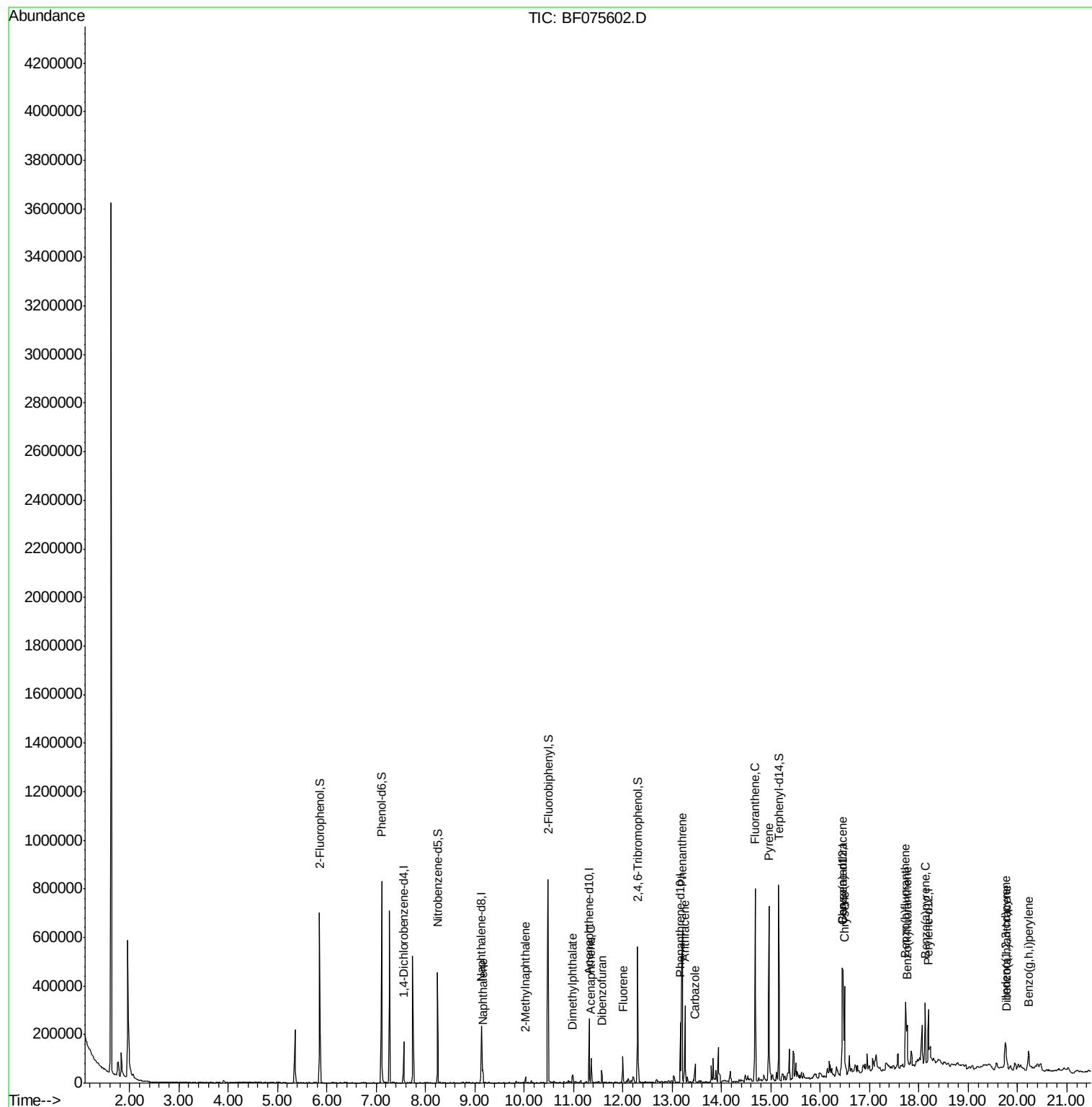
Data Path : Z:\HPCHEM1\BNA F\DATA\BF111414\
Data File : BF075602.D
Acq On : 17 Nov 2014 1:50
Operator : TP / JJ
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Misc :
ALS Vial : 29 Sample Multiplier: 1

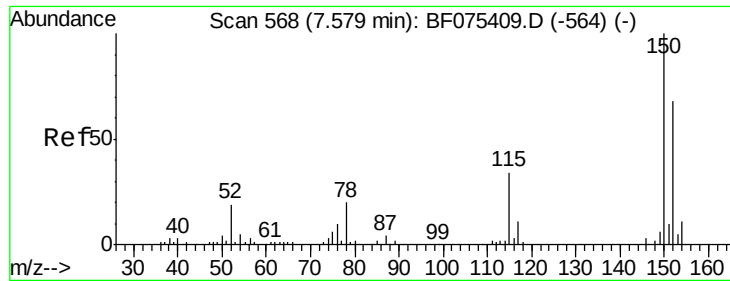
Instrument :
BNA_F
ClientSampleId :
HUDPARK-B3-SS2(2-2.8)

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111214.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 17 05:54:27 2014
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#1

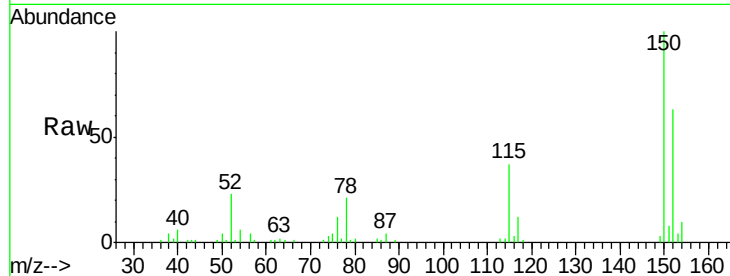
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.56 min Scan# 566
Delta R.T. 0.00 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Instrument :
BNA_F
ClientSampleId :
HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.3	127.2	190.8
115	59.0	57.1	85.7

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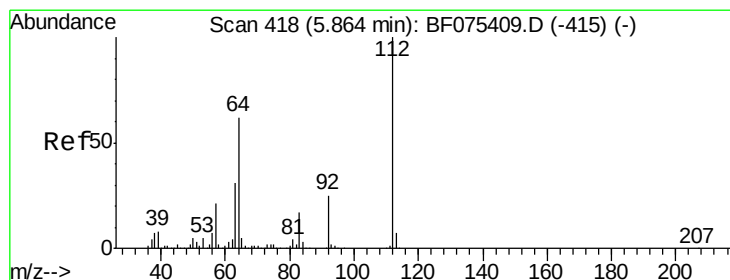
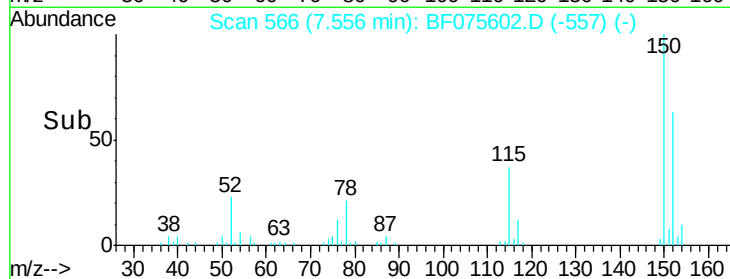
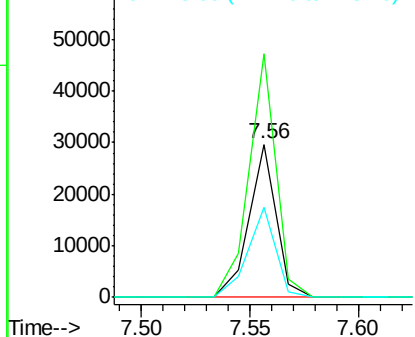


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

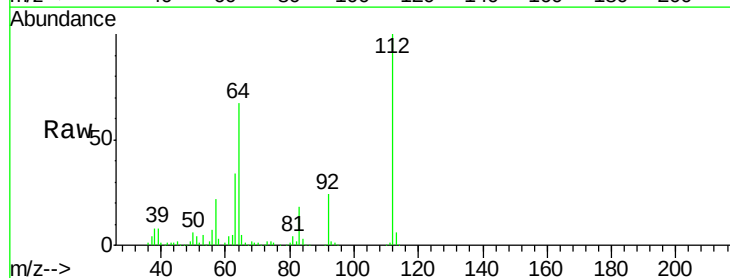
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 137.37 ng
RT: 5.85 min Scan# 417
Delta R.T. 0.00 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	45.8	68.6
63	34.1	22.7	34.1#

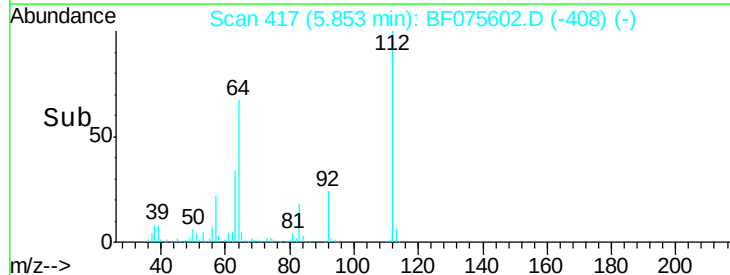
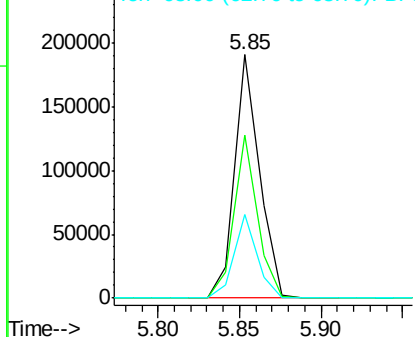


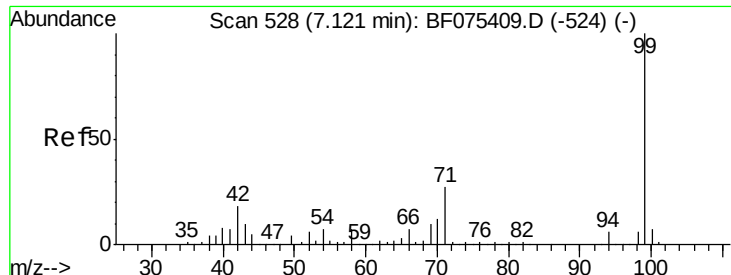
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 147.09 ng

RT: 7.11 min Scan# 527

Delta R.T. 0.00 min

Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

Instrument :

BNA_F

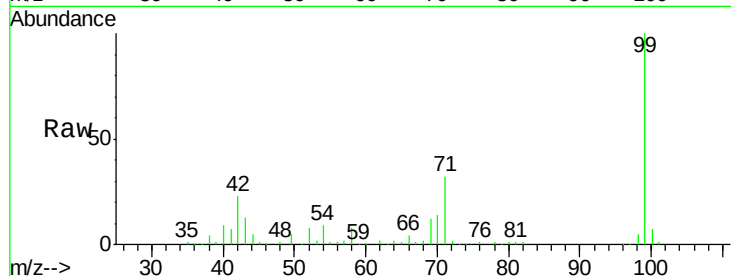
ClientSampleId :

HUDPARK-B3-SS2(2-2.8)

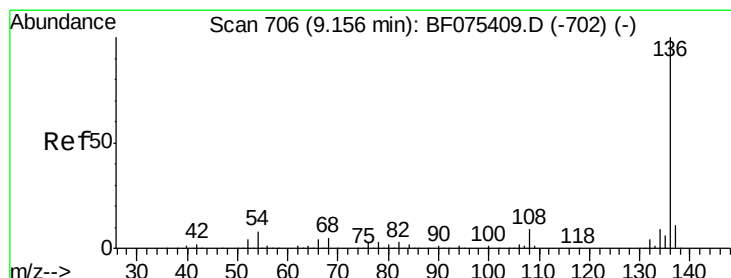
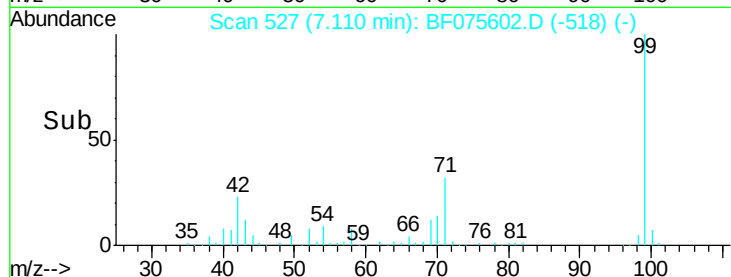
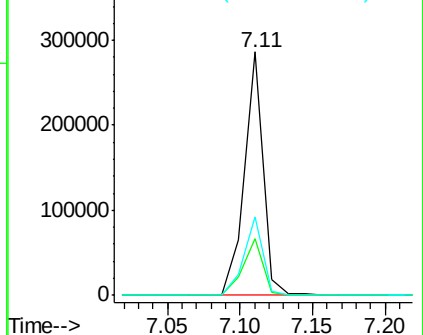
Tot Ion:	99	Resp:	257033
Ion Ratio	Lower	Upper	
99	100		
42	23.4	19.8	29.6
71	32.5	25.5	38.3

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.13 min Scan# 704

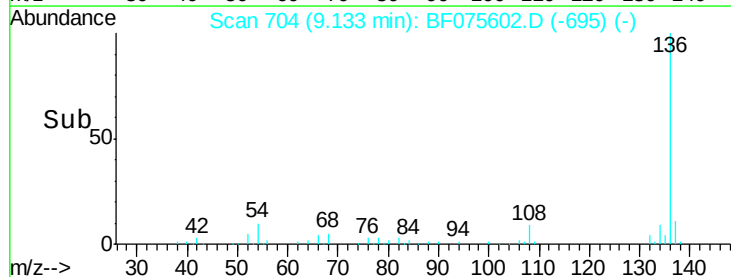
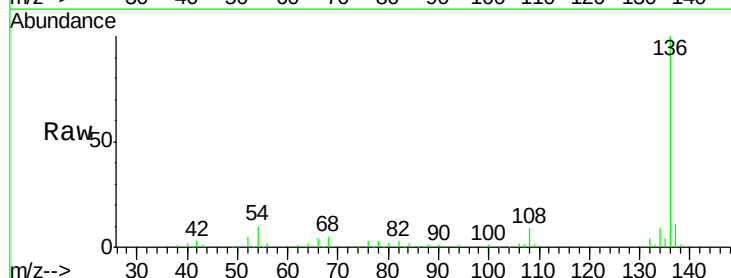
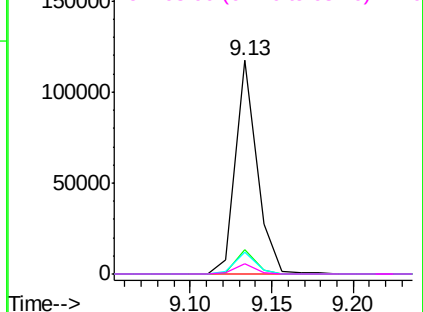
Delta R.T. 0.00 min

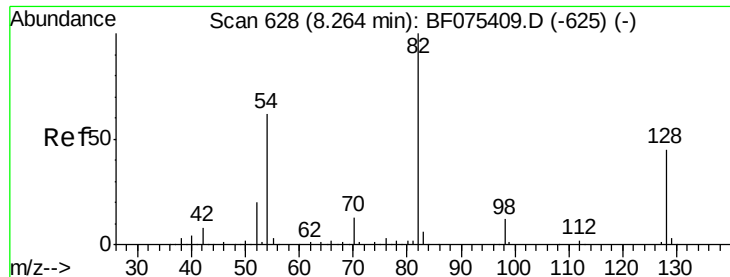
Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

Tgt Ion:	136	Resp:	107022
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.2	12.4
54	10.0	6.2	9.4
68	4.7	3.4	5.2

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): BF0
Ion 68.00 (67.70 to 68.70): BF0





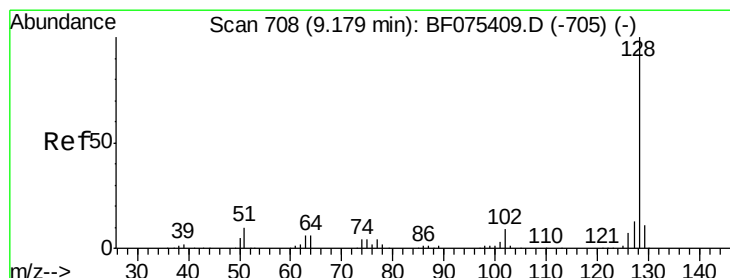
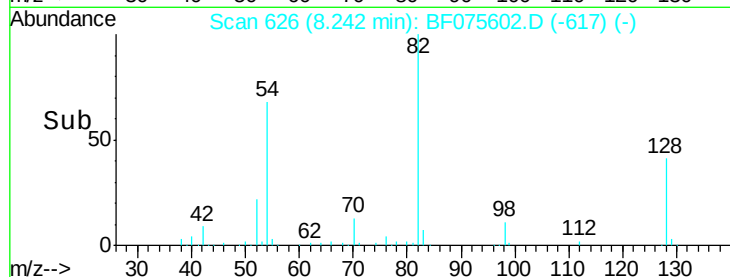
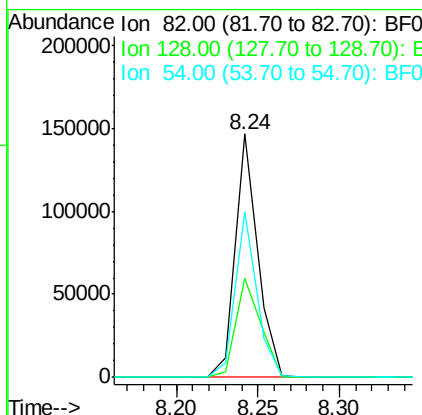
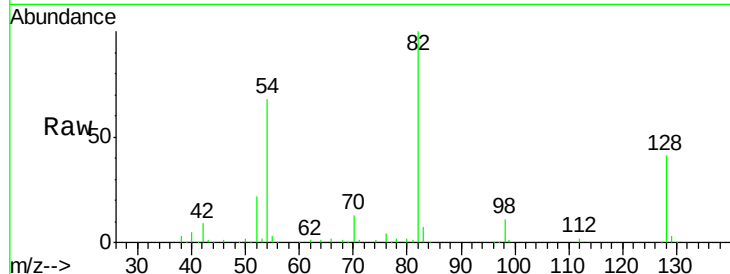
#23
 Nitrobenzene-d5
 Concen: 95.32 ng
 RT: 8.24 min Scan# 626
 Delta R.T. 0.00 min
 Lab File: BF075602.D
 Acq: 17 Nov 2014 1:50

Instrument :
 BNA_F
 ClientSampleId :
 HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	139148		
128	40.8	37.8	56.6	
54	67.9	49.8	74.8	

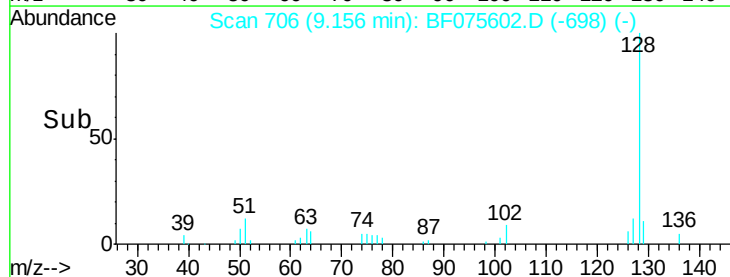
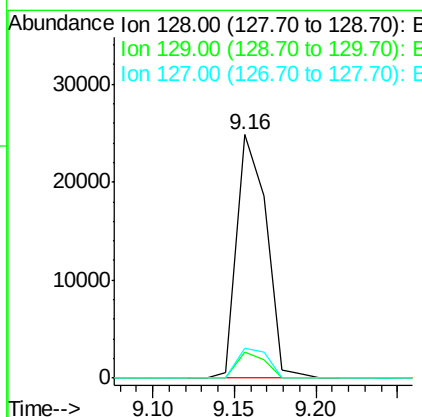
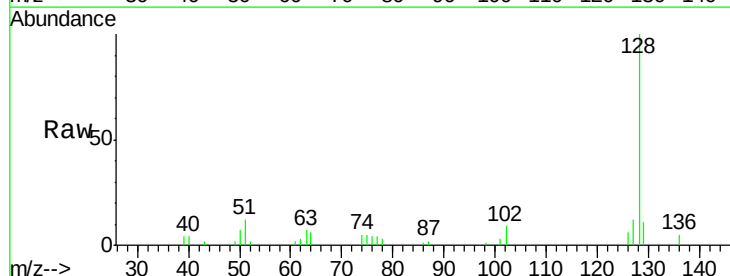
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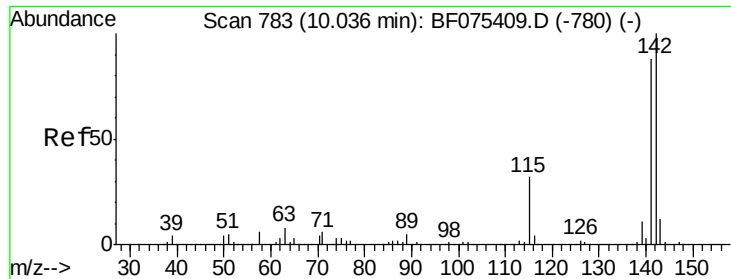
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#31
 Naphthalene
 Concen: 6.52 ng
 RT: 9.16 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: BF075602.D
 Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	31122		
129	10.7	9.0	13.4	
127	12.3	10.2	15.4	





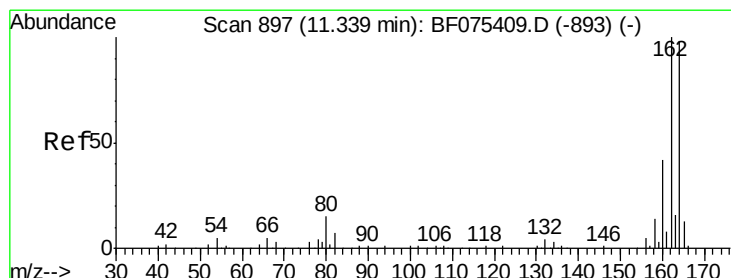
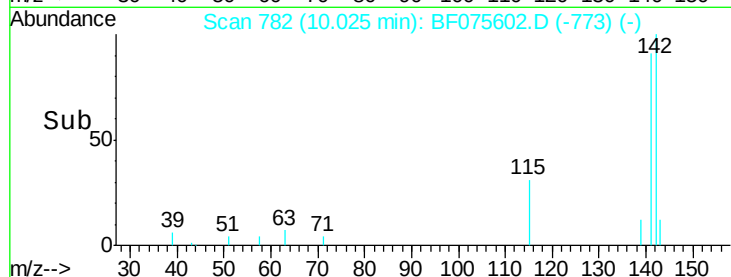
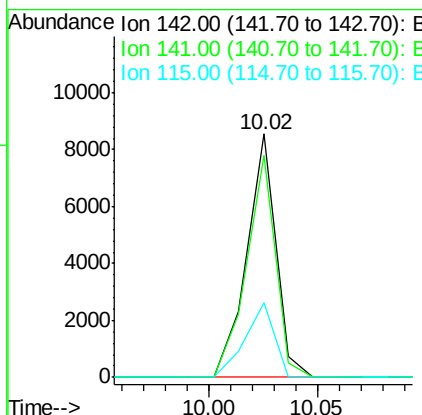
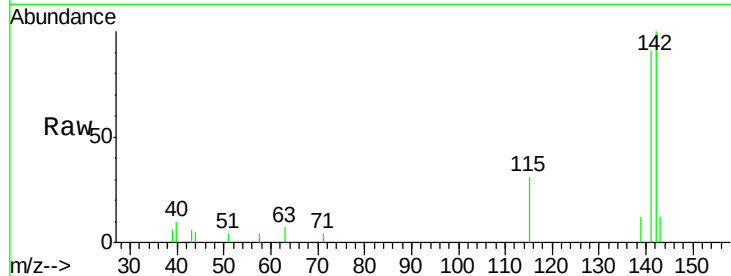
#37
2-Methylnaphthalene
Concen: 2.44 ng
RT: 10.02 min Scan# 782
Delta R.T. 0.00 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Instrument :
BNA_F
ClientSampleId :
HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.9	69.9	104.9
115	30.6	27.6	41.4

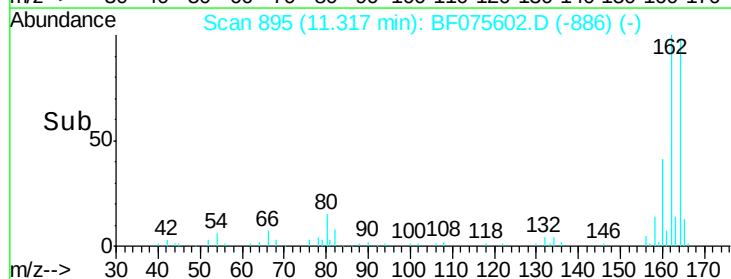
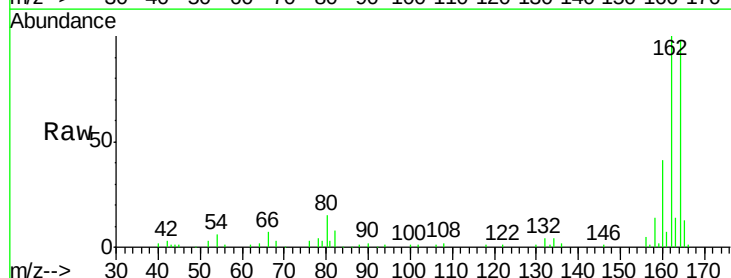
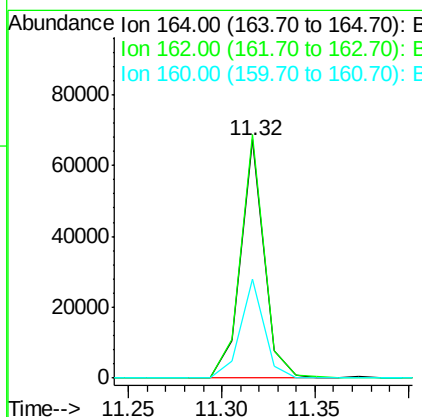
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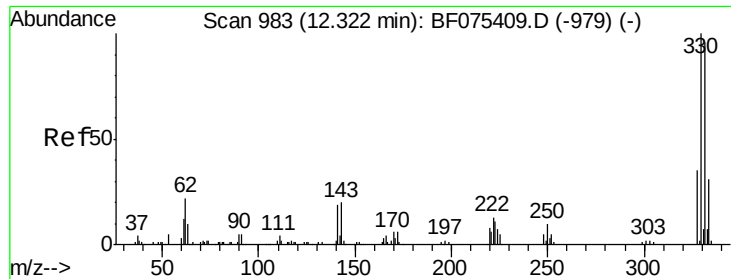
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 11.32 min Scan# 895
Delta R.T. 0.00 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	79.1	118.7
160	41.8	34.6	51.8





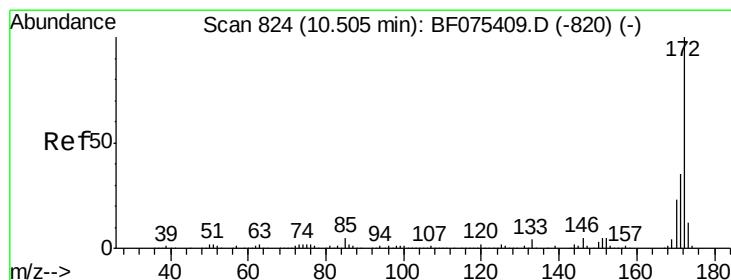
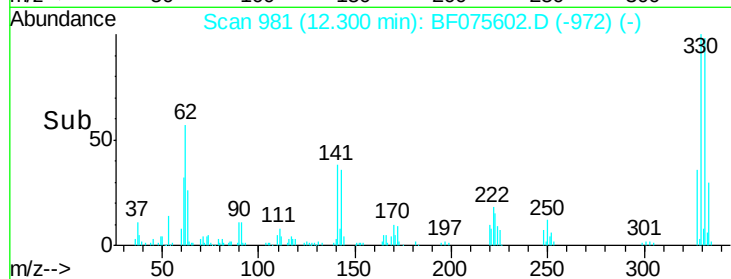
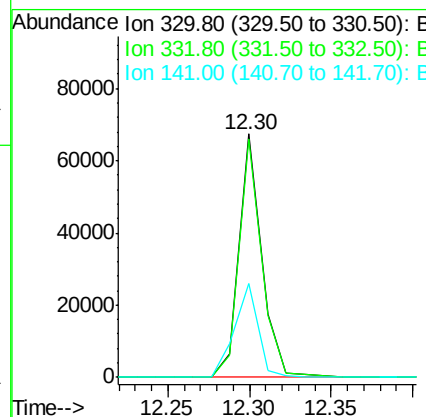
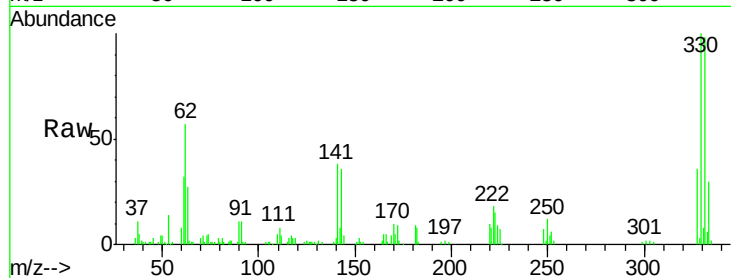
#41
 2,4,6-Tribromophenol
 Concen: 130.04 ng
 RT: 12.30 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: BF075602.D
 Acq: 17 Nov 2014 1:50

Instrument :
 BNA_F
 ClientSampleId :
 HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.9	74.5	111.7
141	40.1	30.7	46.1

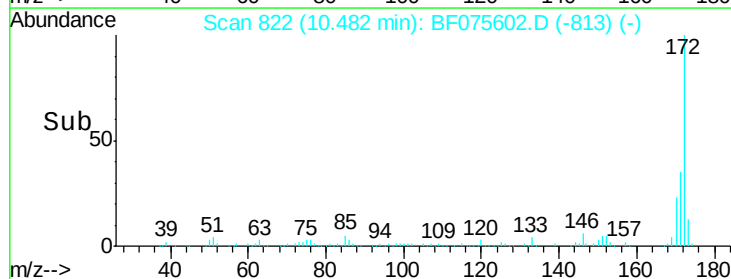
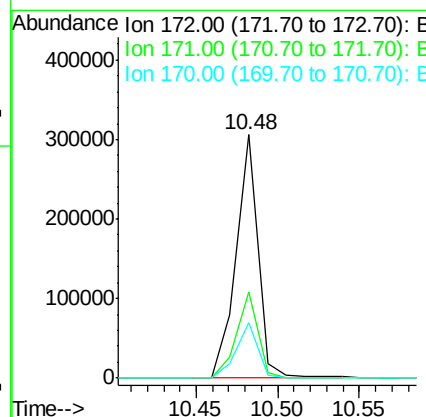
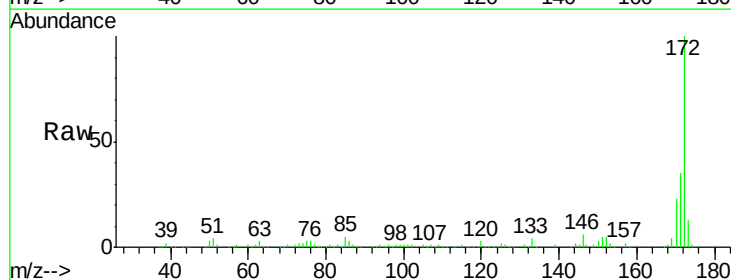
Manual Integrations
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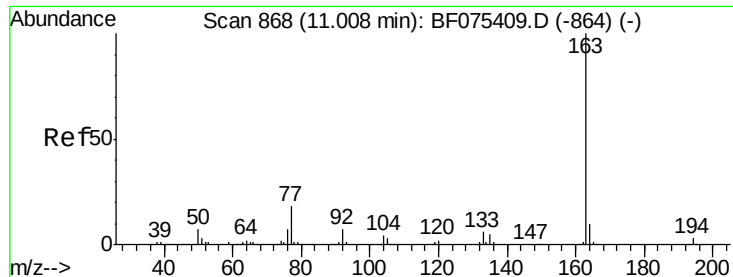
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#44
 2-Fluorobiphenyl
 Concen: 86.81 ng
 RT: 10.48 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BF075602.D
 Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.3	40.9
170	22.9	18.4	27.6





#49

Dimethylphthalate

Concen: 5.00 ng

RT: 10.99 min Scan# 866

Delta R.T. 0.00 min

Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

Instrument :

BNA_F

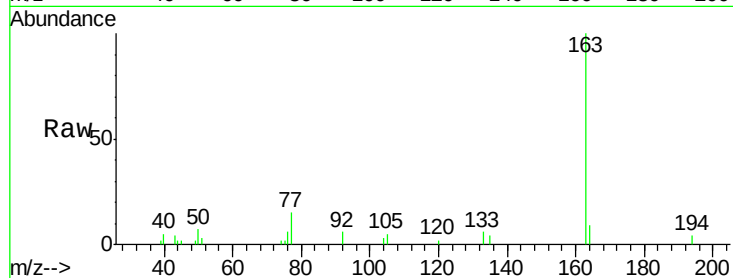
ClientSampleId :

HUDPARK-B3-SS2(2-2.8)

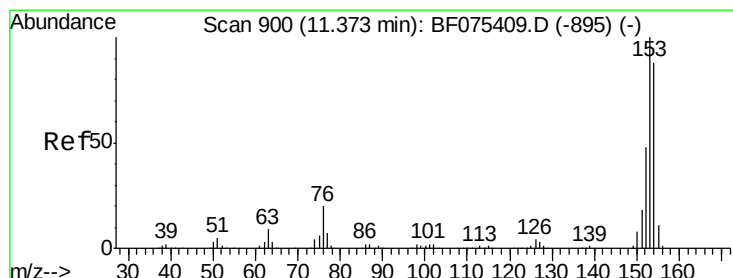
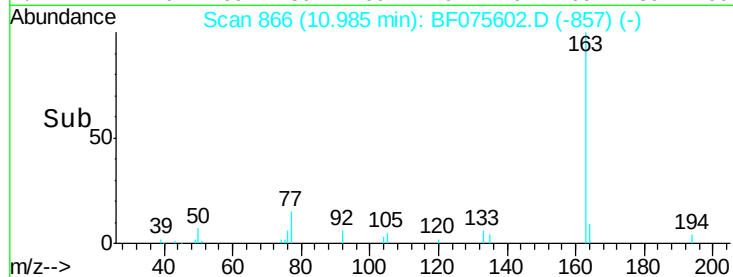
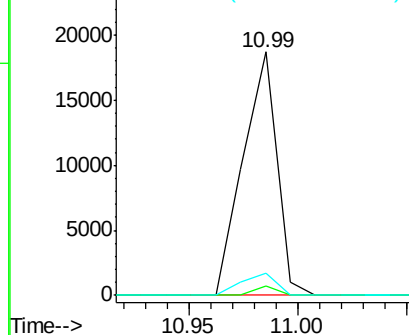
Tot Ion:	163	Resp:	20176
Ion Ratio	Lower	Upper	
163	100		
194	4.0	2.7	4.1
164	8.9	8.0	12.0

Manual Integrations
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Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 10.45 ng

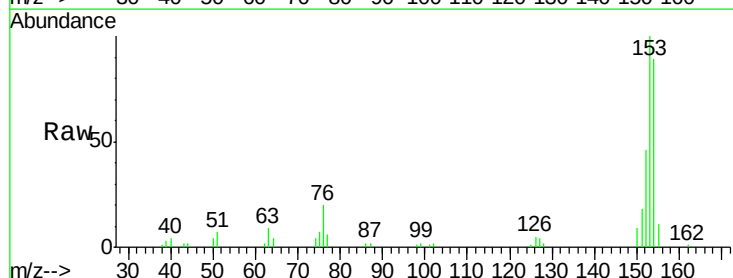
RT: 11.35 min Scan# 898

Delta R.T. -0.01 min

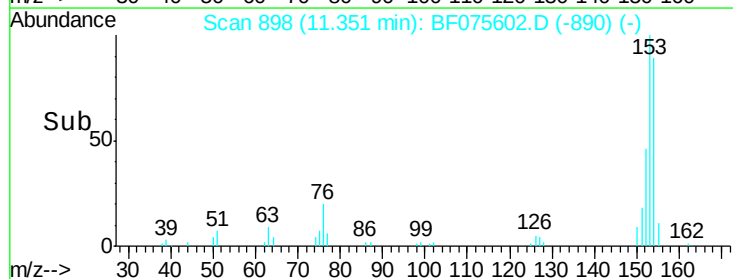
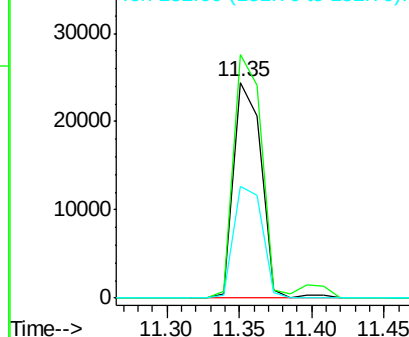
Lab File: BF075602.D

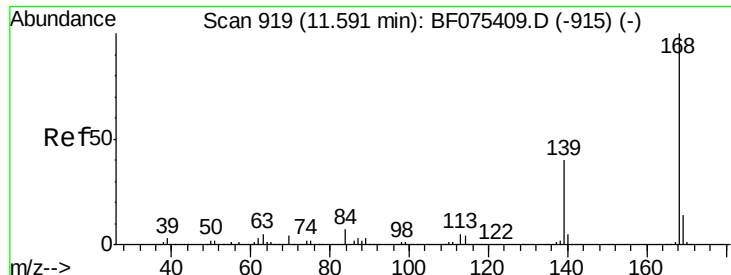
Acq: 17 Nov 2014 1:50

Tgt Ion:	154	Resp:	32392
Ion Ratio	Lower	Upper	
154	100		
153	112.7	91.2	136.8
152	51.7	43.4	65.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





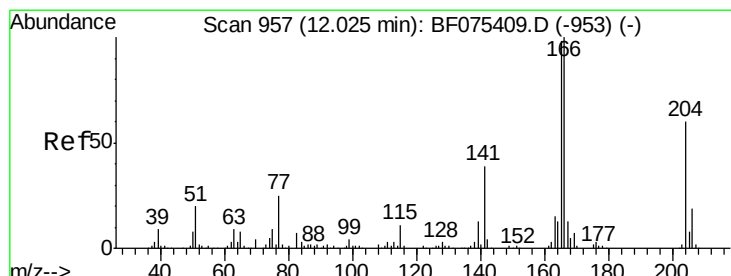
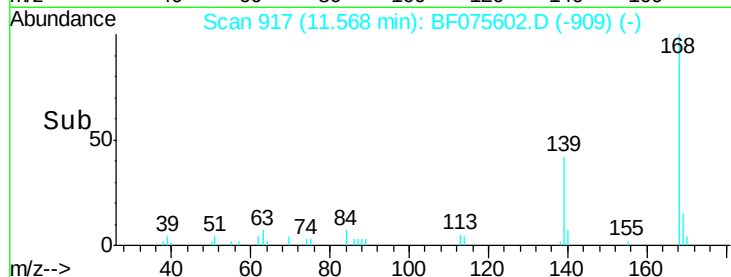
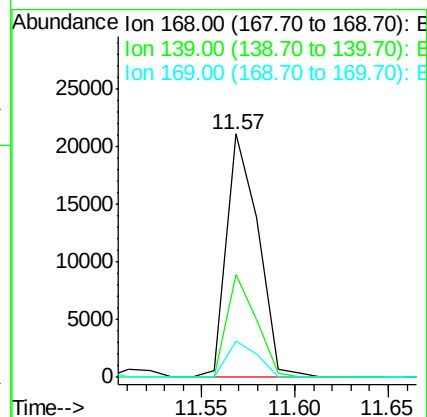
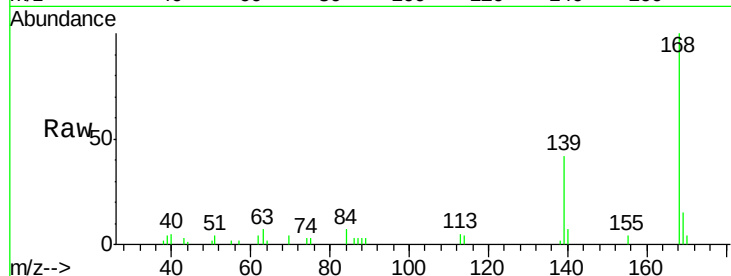
#54
Dibenzenofuran
Concen: 5.68 ng
RT: 11.57 min Scan# 917
Delta R.T. -0.01 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Instrument :
BNA_F
ClientSampleId :
HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Lower	Upper
168	100		
139	42.1	33.0	49.4
169	14.7	10.8	16.2

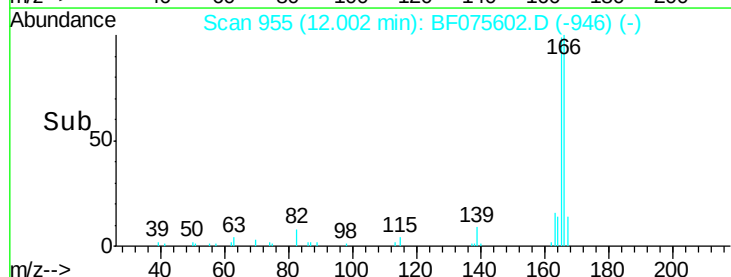
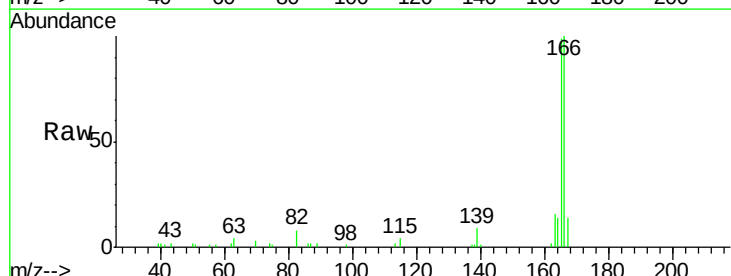
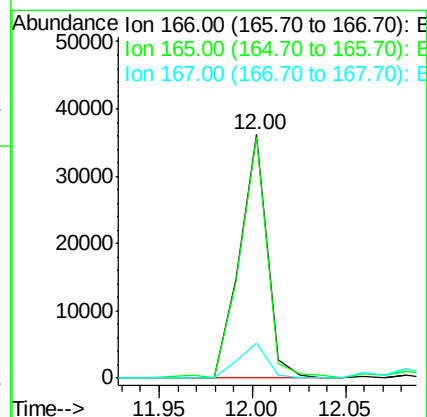
Manual Integrations
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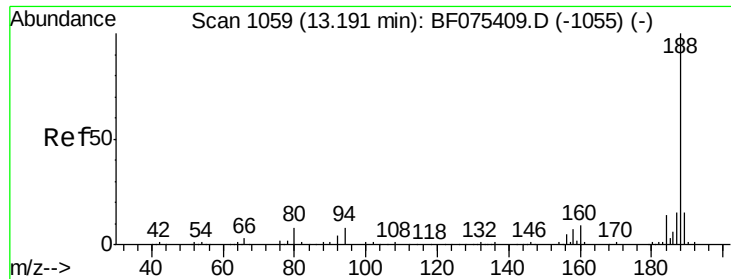
mohammad
11/17/2014 7:40:35 PM



#57
Fluorene
Concen: 10.39 ng
RT: 12.00 min Scan# 955
Delta R.T. 0.00 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.8	118.2
167	14.2	10.6	15.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 13.17 min Scan# 1057

Delta R.T. 0.00 min

Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

Instrument :

BNA_F

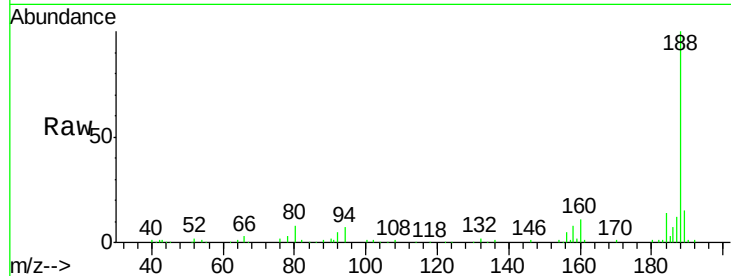
ClientSampleId :

HUDPARK-B3-SS2(2-2.8)

Tot Ion:	188	Resp:	98776
Ion Ratio		Lower	Upper
188	100		
94	7.3	7.8	11.6#
80	7.9	8.0	12.0#

Manual Integrations
APPROVED

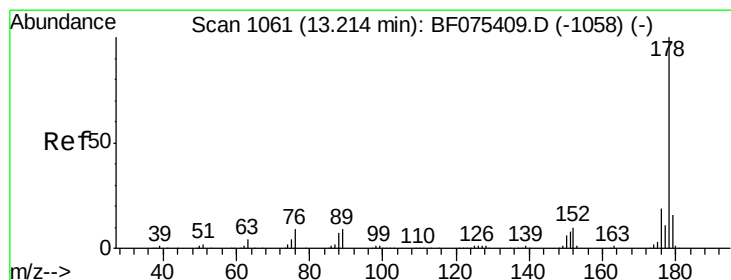
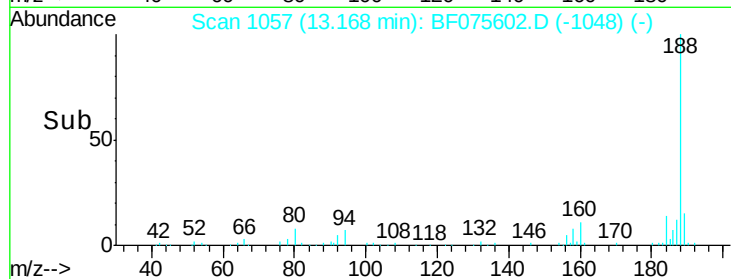
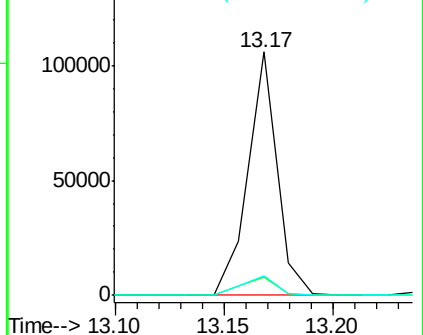
mohammad
11/17/2014 7:40:35 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 64.52 ng

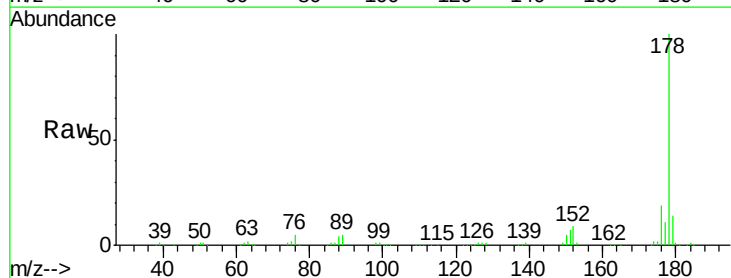
RT: 13.20 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

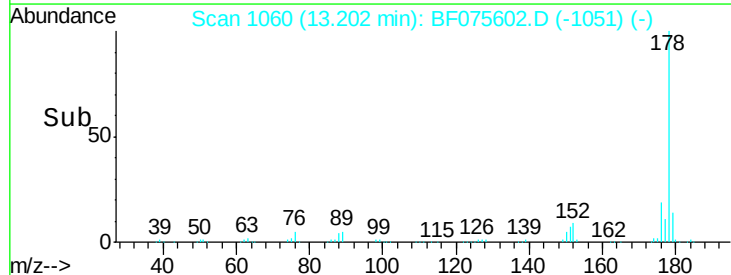
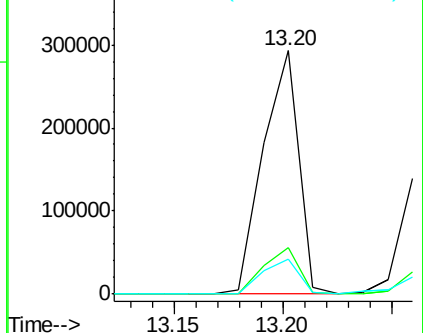
Tgt Ion:	178	Resp:	335414
Ion Ratio		Lower	Upper
178	100		
176	18.9	15.3	22.9
179	14.4	12.2	18.4

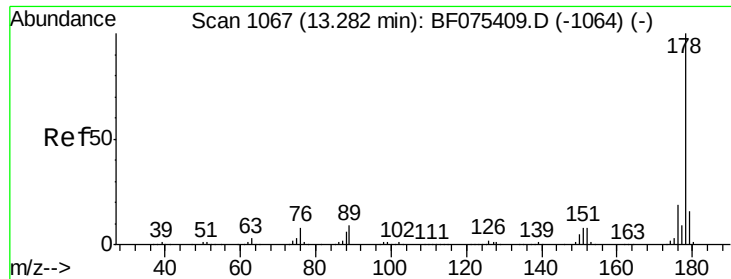


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





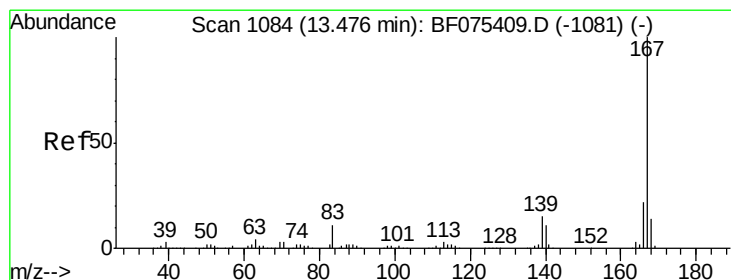
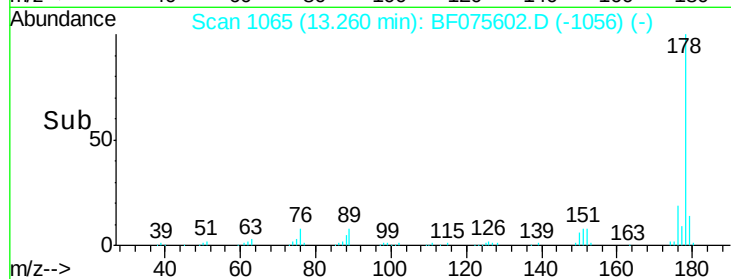
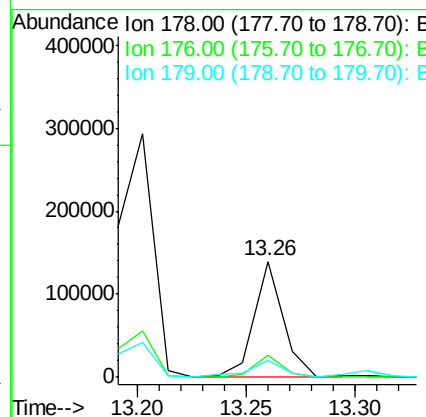
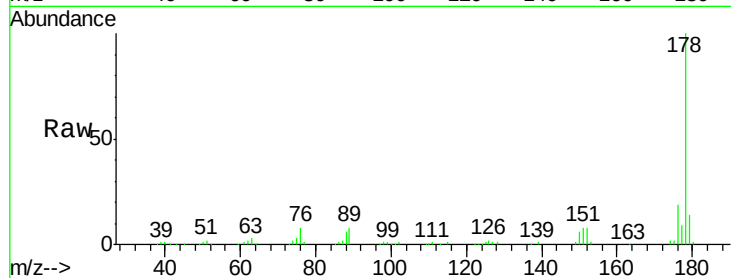
#71
 Anthracene
 Concen: 23.72 ng
 RT: 13.26 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: BF075602.D
 Acq: 17 Nov 2014 1:50

Instrument :
 BNA_F
 ClientSampleId :
 HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	14.3	12.2	18.2

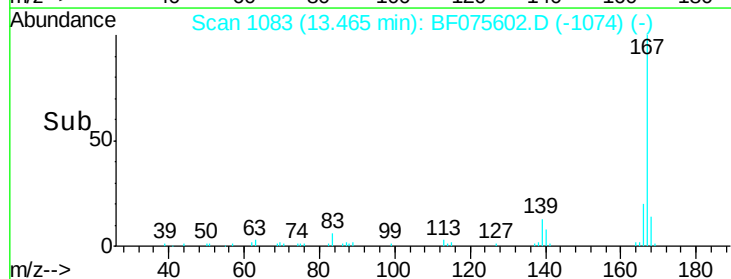
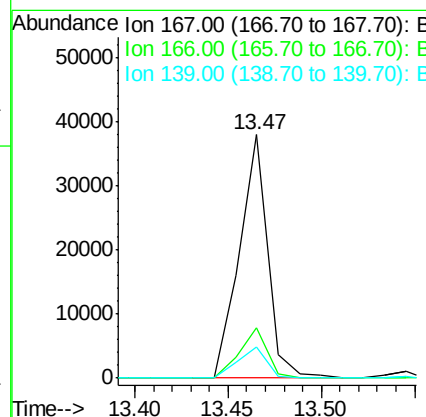
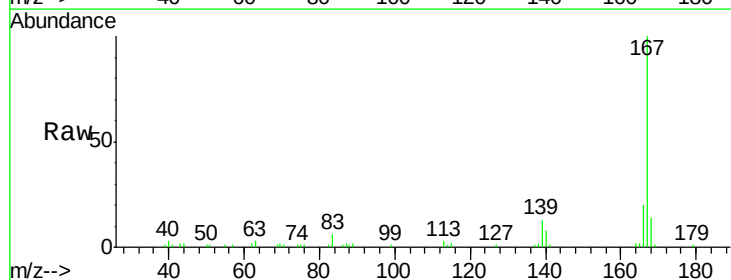
Manual Integrations
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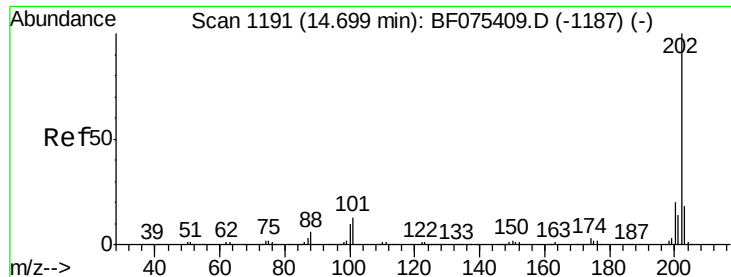
mohammad
 11/17/2014 7:40:35 PM



#72
 Carbazole
 Concen: 7.66 ng
 RT: 13.47 min Scan# 1083
 Delta R.T. 0.00 min
 Lab File: BF075602.D
 Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.4	17.4	26.0
139	12.9	10.1	15.1





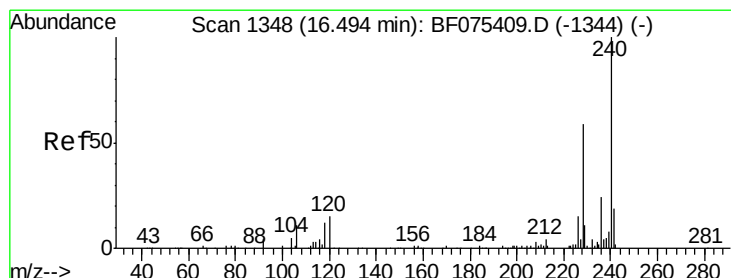
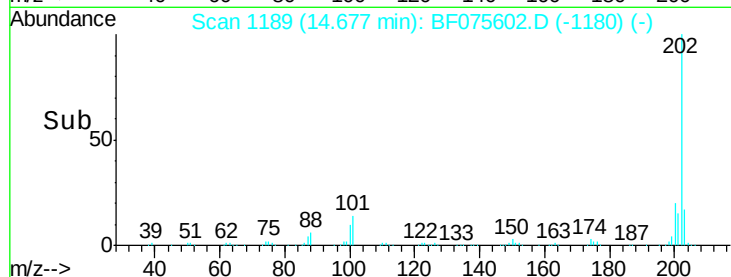
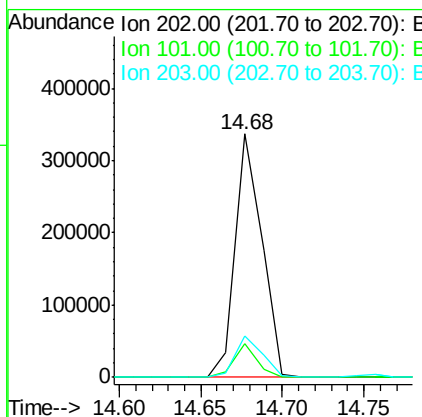
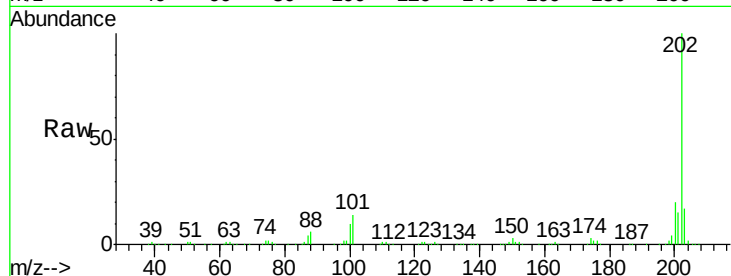
#74
Fluoranthene
Concen: 67.93 ng
RT: 14.68 min Scan# 1189
Delta R.T. 0.00 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Instrument :
BNA_F
ClientSampleId :
HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.8	0.0	36.6
203	17.1	0.0	38.2

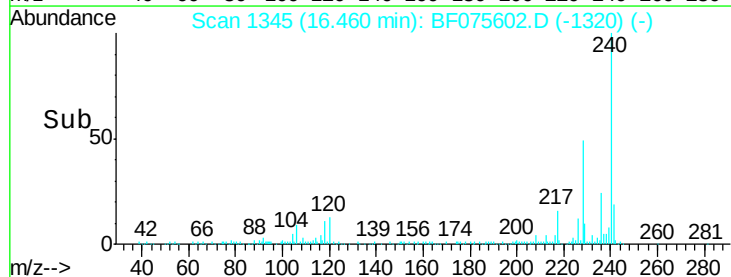
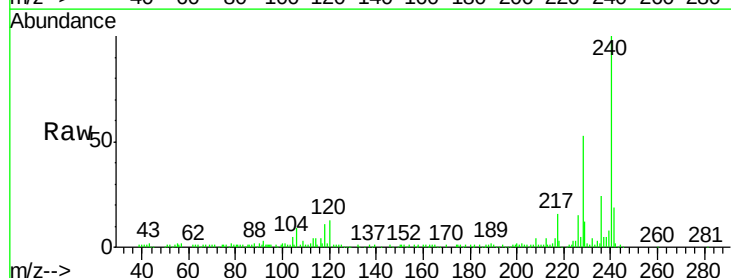
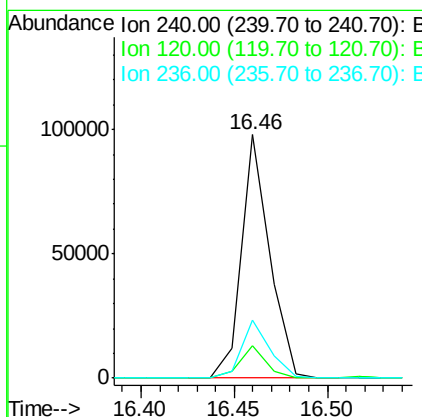
Manual Integrations
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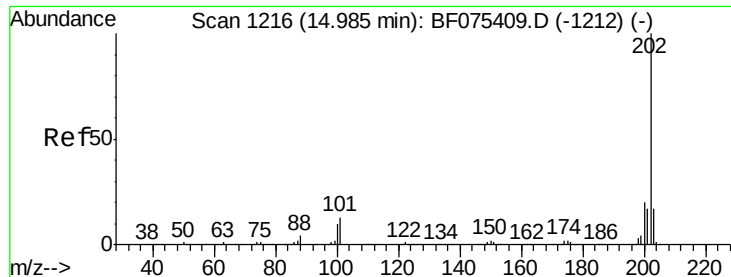
mohammad
11/17/2014 7:40:35 PM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 16.46 min Scan# 1345
Delta R.T. -0.01 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.4	9.6	14.4
236	23.7	18.9	28.3





#77

Pvrene

Concen: 54.75 ng

RT: 14.96 min Scan# 1214

Delta R.T. 0.00 min

Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

Instrument :

BNA_F

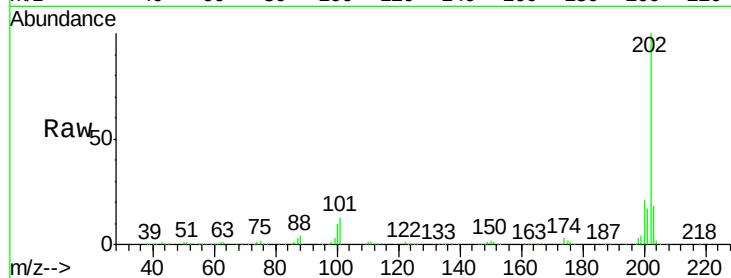
ClientSampleId :

HUDPARK-B3-SS2(2-2.8)

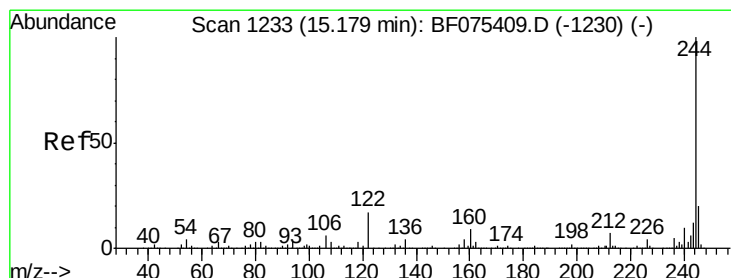
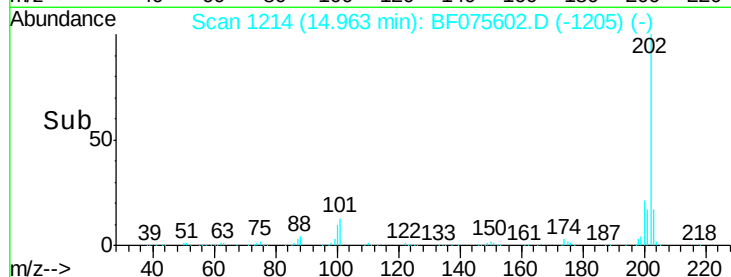
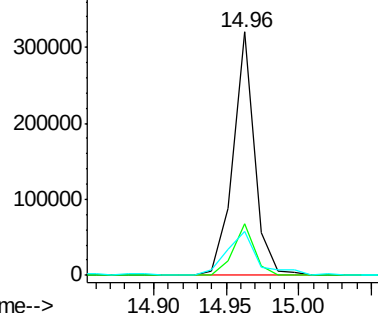
Tot Ion:	202	Resp:	326205
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.8	25.2
203	18.0	14.3	21.5

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



#78

Terphenyl-d14

Concen: 73.53 ng

RT: 15.16 min Scan# 1231

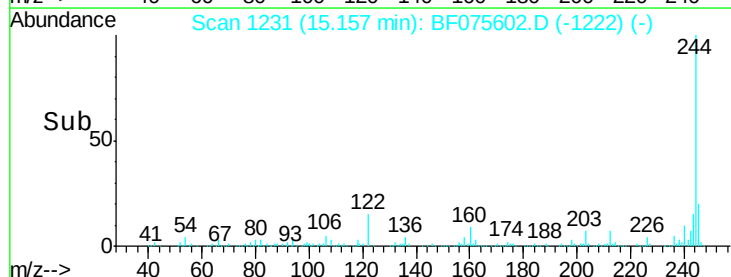
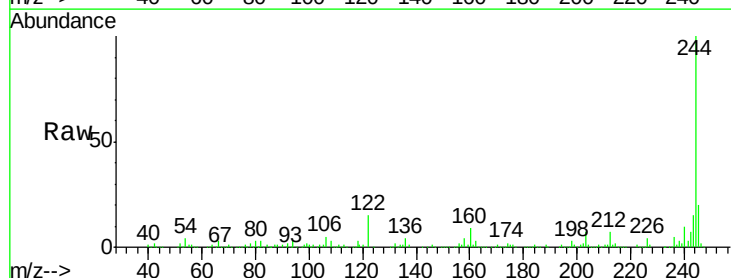
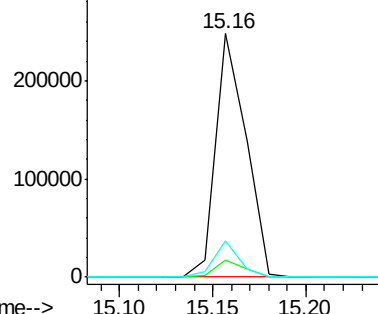
Delta R.T. 0.00 min

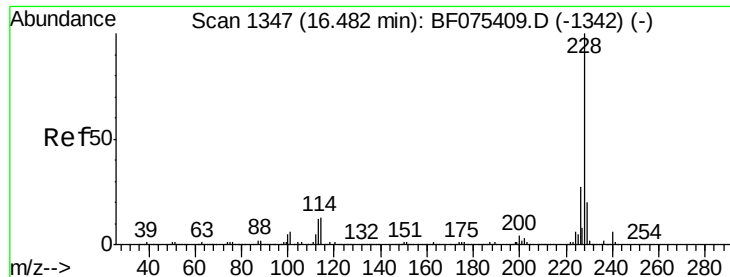
Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

Tgt Ion:	244	Resp:	279911
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.5	8.3
122	14.7	9.7	14.5#

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





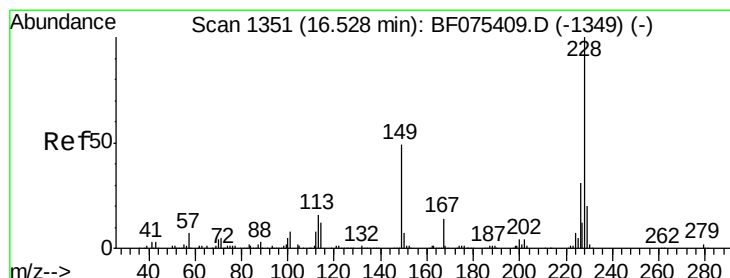
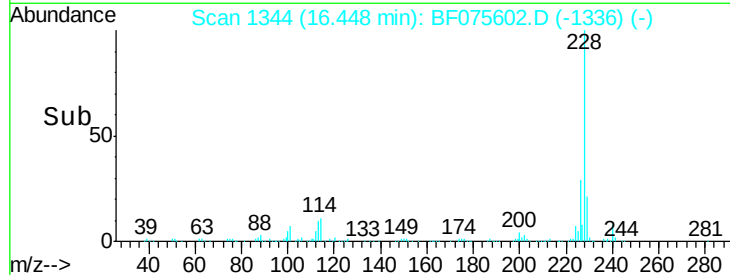
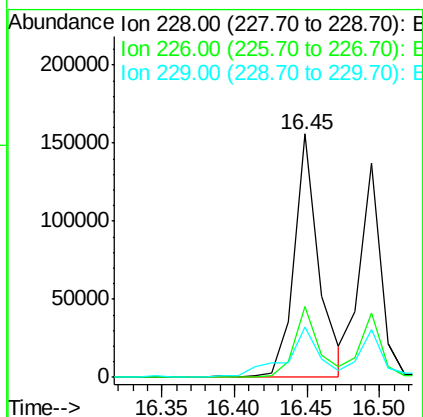
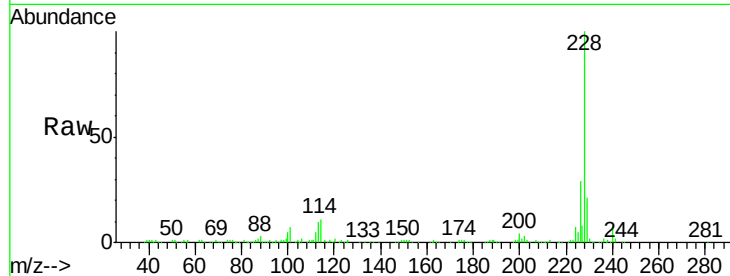
#80
Benzo(a)anthracene
Concen: 34.25 ng
RT: 16.45 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Instrument :
BNA_F
ClientSampleId :
HUDPARK-B3-SS2(2-2.8)

Tot Ion:	228	Resp:	184390
Ion Ratio	Lower	Upper	
228	100		
226	29.0	21.8	32.8
229	20.8	15.3	22.9

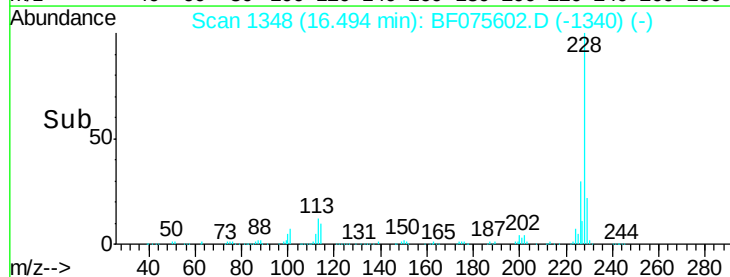
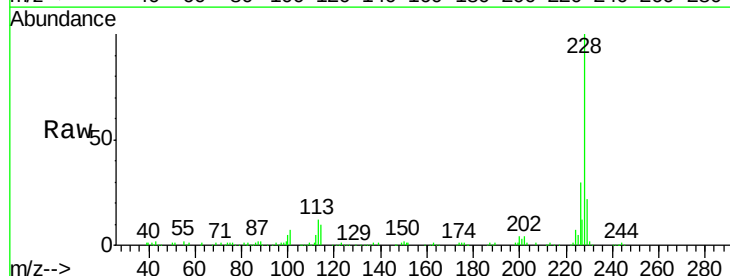
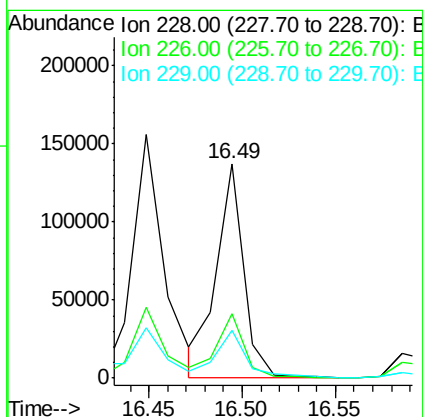
Manual Integrations
APPROVED

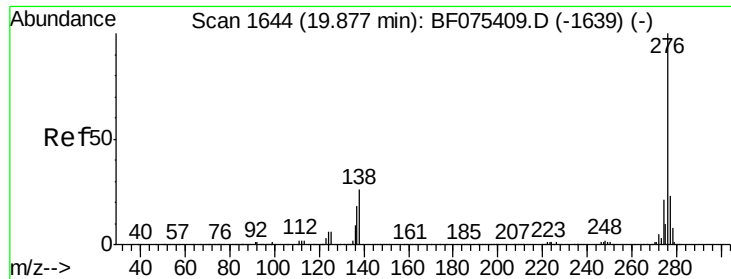
mohammad
11/17/2014 7:40:35 PM



#82
Chrysene
Concen: 29.69 ng
RT: 16.49 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Tgt Ion:	228	Resp:	138239
Ion Ratio	Lower	Upper	
228	100		
226	29.9	23.8	35.6
229	22.1	15.8	23.6





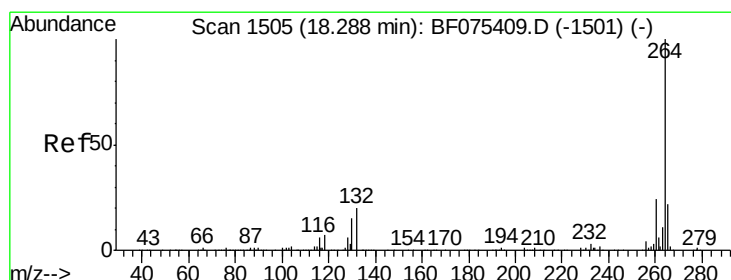
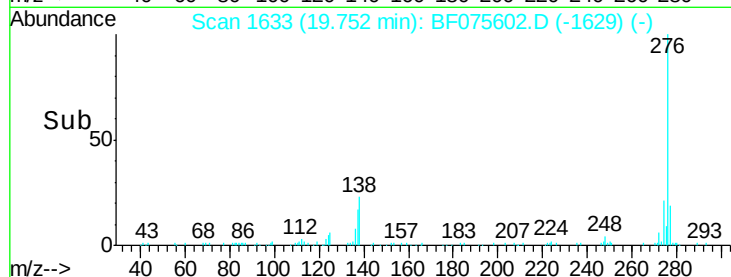
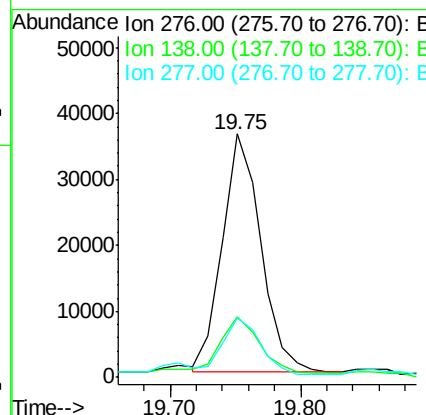
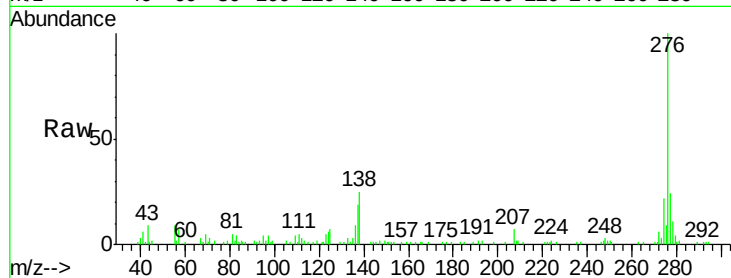
#85
Indeno(1,2,3-cd)pyrene
Concen: 13.11 ng
RT: 19.75 min Scan# 1633
Delta R.T. -0.06 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Instrument :
BNA_F
ClientSampleId :
HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.1	0.0	0.0#
277	23.8	0.0	0.0#

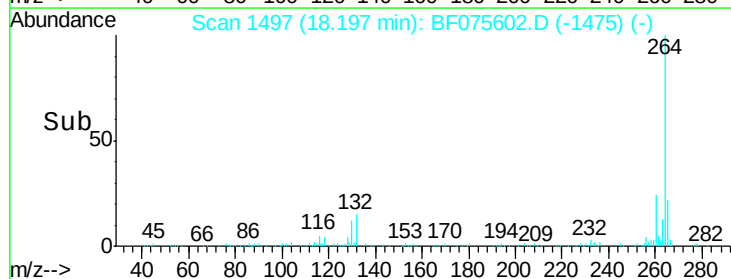
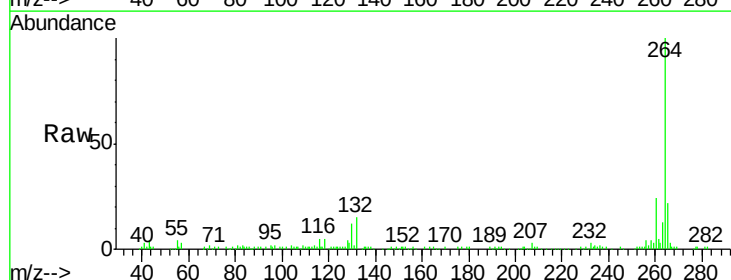
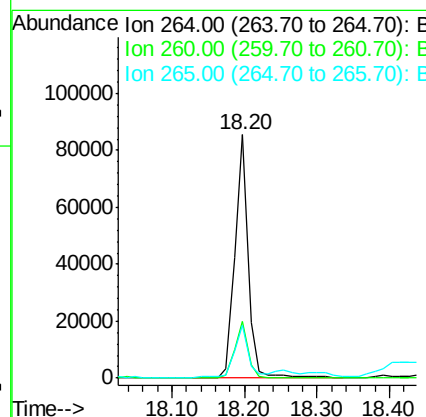
Manual Integrations
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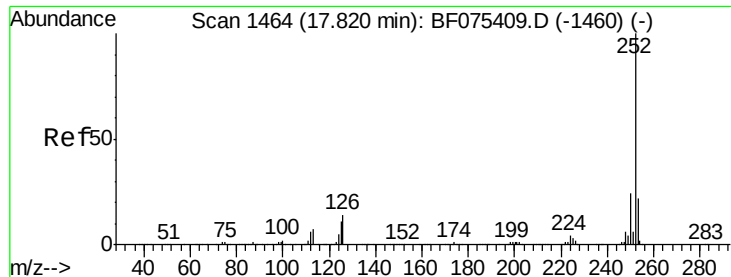
mohammad
11/17/2014 7:40:35 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 18.20 min Scan# 1497
Delta R.T. -0.05 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	17.9	26.9
265	21.7	16.3	24.5





#87

Benzo(b)fluoranthene

Concen: 30.72 ng m

RT: 17.73 min Scan# 1456

Delta R.T. -0.05 min

Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

Instrument :

BNA_F

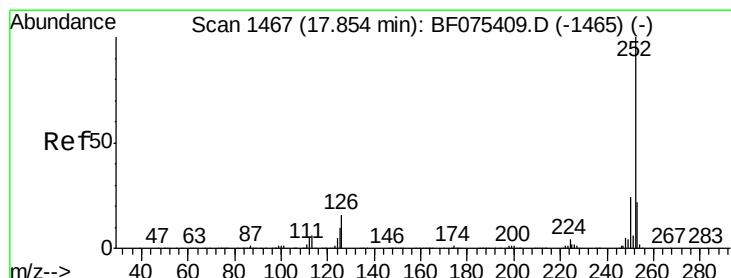
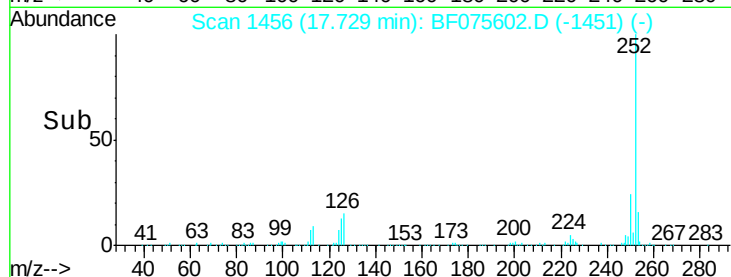
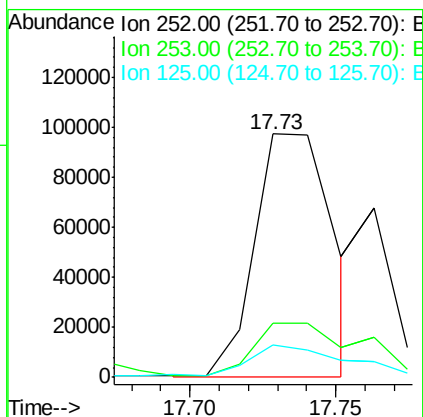
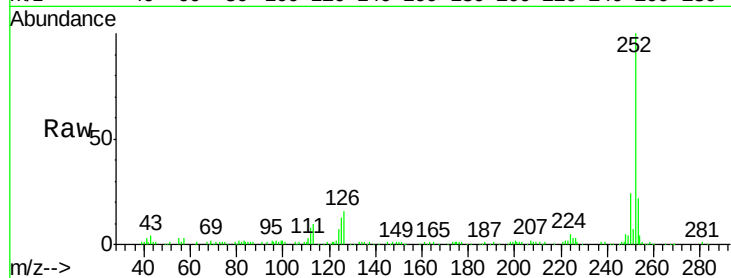
ClientSampleId :

HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	13.5	11.8	17.6

Manual Integrations
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11/17/2014 7:40:35 PM



#88

Benzo(k)fluoranthene

Concen: 11.00 ng m

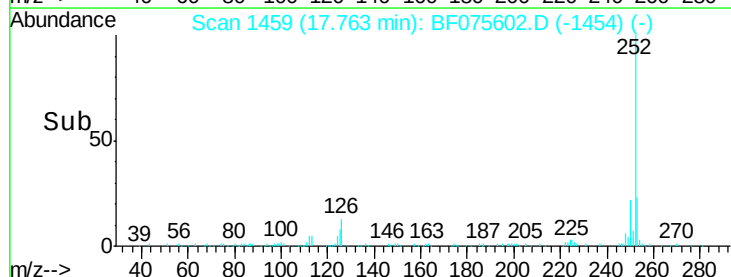
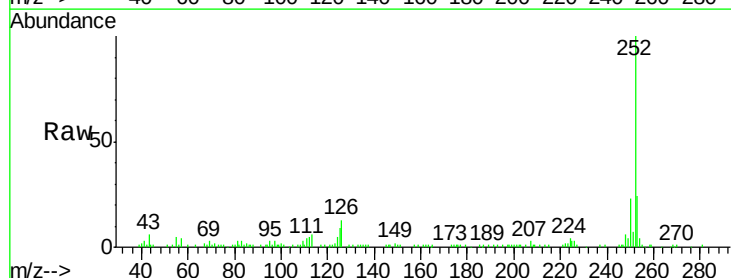
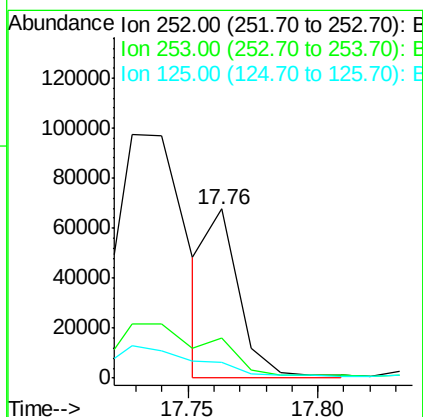
RT: 17.76 min Scan# 1459

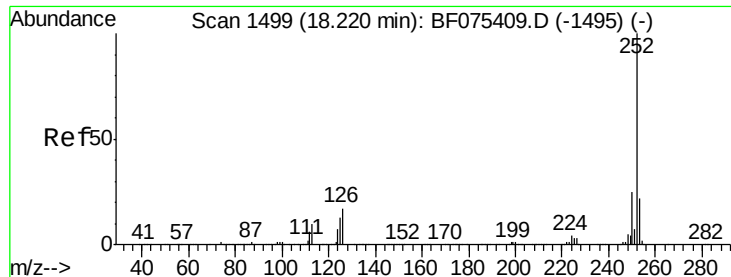
Delta R.T. -0.05 min

Lab File: BF075602.D

Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	9.4	11.6	17.4#





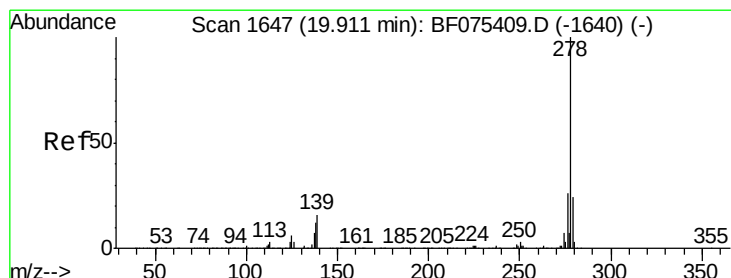
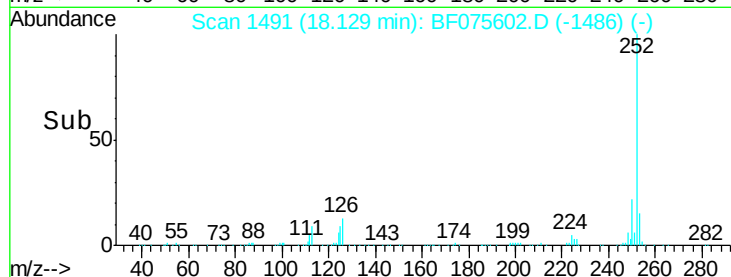
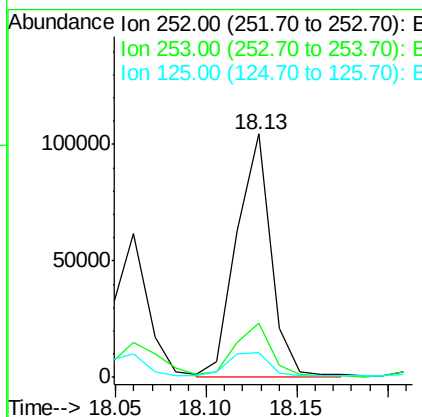
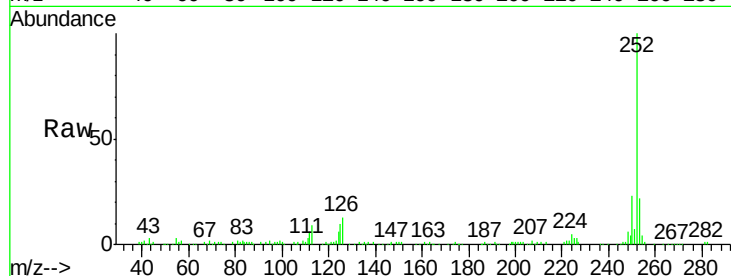
#89
Benzo(a)pyrene
Concen: 26.24 ng/ml
RT: 18.13 min Scan# 1491
Delta R.T. -0.05 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Instrument :
BNA_F
ClientSampleId :
HUDPARK-B3-SS2(2-2.8)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	10.1	12.2	18.4

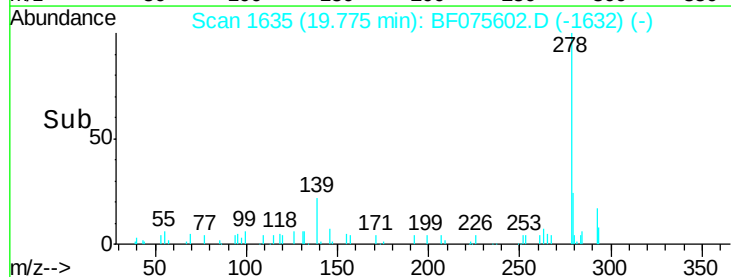
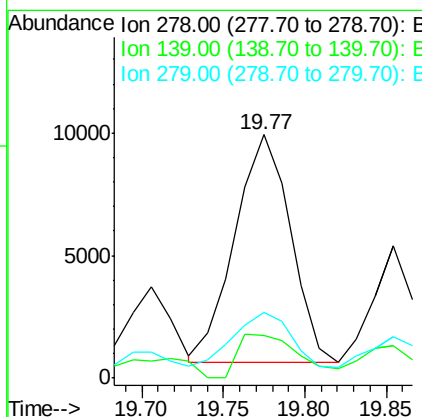
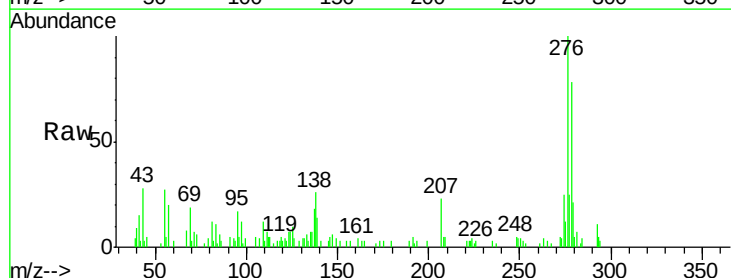
Manual Integrations
APPROVED

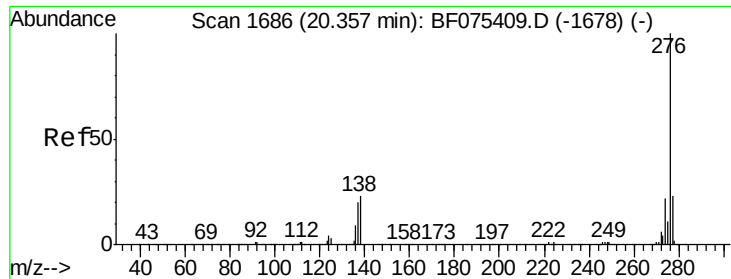
mohammad
11/17/2014 7:40:35 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.03 ng/ml
RT: 19.77 min Scan# 1635
Delta R.T. -0.07 min
Lab File: BF075602.D
Acq: 17 Nov 2014 1:50

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	13.6	20.4
279	27.1	19.4	29.0





#91
 Benzo(a,h,i)perylene
 Concen: 12.86 ng
 RT: 20.22 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: BF075602.D
 Acq: 17 Nov 2014 1:50

Instrument :
 BNA_F
 ClientSampleId :
 HUDPARK-B3-SS2(2-2.8)

Tot Ion:	276	Resp:	66976
Ion Ratio		Lower	Upper
276	100		
277	24.1	17.8	26.8
138	27.1	22.8	34.2

Manual Integrations
 APPROVED

mohammad
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