

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
 Data File : BF092248.D
 Acq On : 13 Jan 2017 14:43
 Operator : UM/SJ
 Sample : I1146-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P-17-11117

Manual Integrations
 APPROVED

Sohil
 1/16/2017 8:38:50 AM

Quant Time: Jan 16 01:16:14 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 16 01:02:36 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	204963	20.00	ng	0.00
21) Naphthalene-d8	7.89	136	500933	20.00	ng	0.01
38) Acenaphthene-d10	9.64	164	277789	20.00	ng	0.01
63) Phenanthrene-d10	11.10	188	517345	20.00	ng	0.00
75) Chrysene-d12	13.73	240	311955	20.00	ng	0.00
86) Perylene-d12	15.09	264	298046	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	1397072	113.81	ng	0.01
7) Phenol-d6	6.26	99	1700109	113.44	ng	0.00
23) Nitrobenzene-d5	7.16	82	1004368	111.49	ng	0.00
41) 2,4,6-Tribromophenol	10.42	330	277101	120.54	ng	0.00
44) 2-Fluorobiphenyl	8.96	172	1213850	90.34	ng	0.01
78) Terphenyl-d14	12.69	244	1005023	78.13	ng	0.00
Target Compounds						
10) Phenol	6.27	94	115899	6.79	ng	# 75
31) Naphthalene	7.90	128	231498	10.10	ng	# 81
37) 2-Methylnaphthalene	8.61	142	135820	7.23	ng	# 91
48) Acenaphthylene	9.50	152	218780	9.44	ng	# 82
49) Dimethylphthalate	9.36	163	221221	12.45	ng	# 91
51) Acenaphthene	9.67	154	138986	8.85	ng	92
54) Dibenzofuran	9.84	168	158308	7.46	ng	# 65
57) Fluorene	10.18	166	265708	17.22	ng	# 95
70) Phenanthrene	11.12	178	1198894	42.74	ng	98
71) Anthracene	11.17	178	370488	11.55	ng	97
72) Carbazole	11.34	167	463202	15.57	ng	96
74) Fluoranthene	12.31	202	1416104	58.70	ng	93
77) Pyrene	12.54	202	1491538	65.17	ng	98
80) Benzo(a)anthracene	13.72	228	843809	47.92	ng	94
82) Chrysene	13.75	228	613267	34.72	ng	96
85) Indeno(1,2,3-cd)pyrene	16.34	276	356049	23.27	ng	95
87) Benzo(b)fluoranthene	14.74	252	1064701m	57.38	ng	
88) Benzo(k)fluoranthene	14.75	252	131557m	8.31	ng	
89) Benzo(a)pyrene	15.05	252	647329	39.30	ng	98
90) Dibenz(a,h)anthracene	16.34	278	116719m	8.62	ng	
91) Benzo(g,h,i)perylene	16.71	276	337749	23.99	ng	99

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

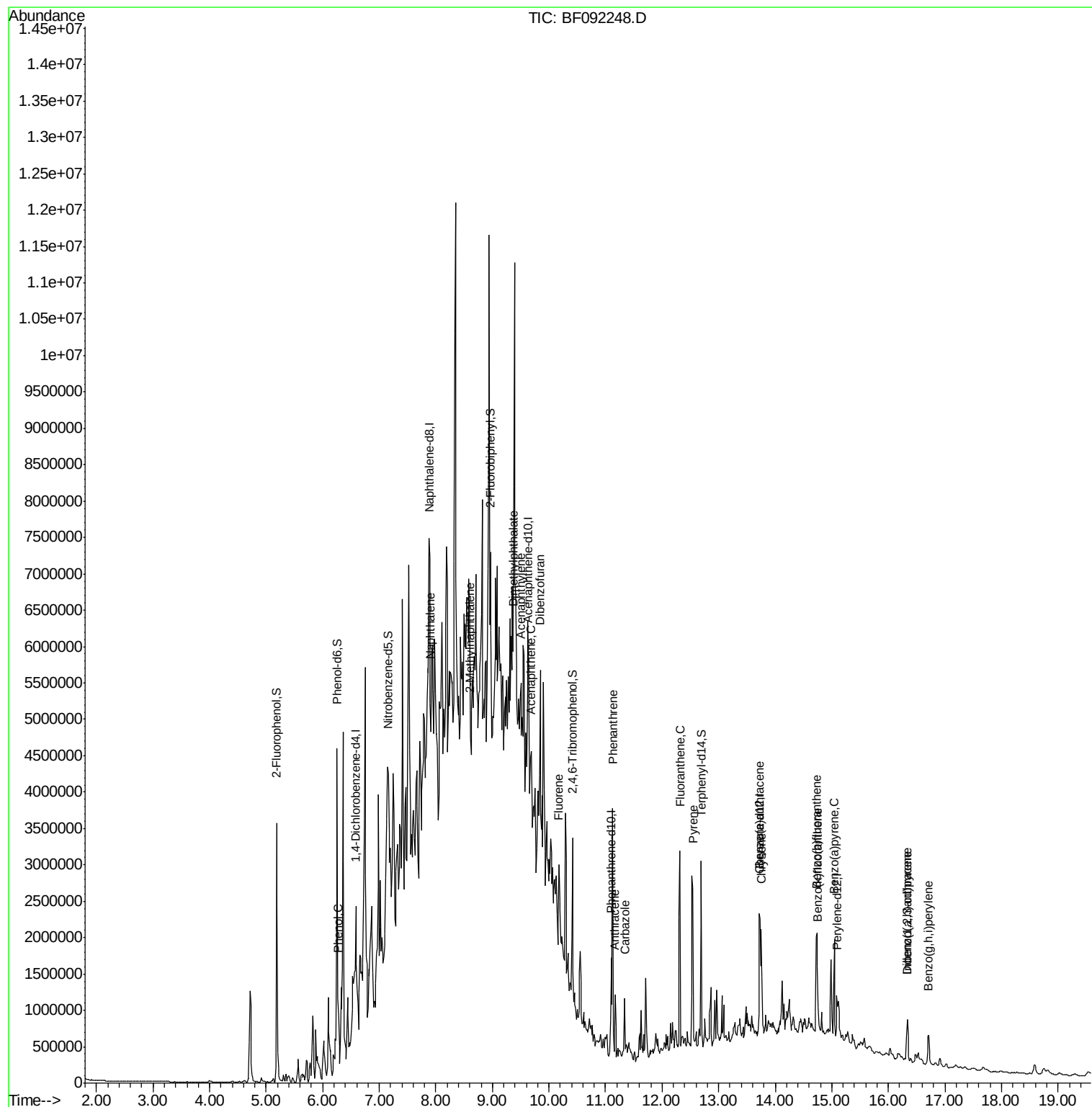
Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092248.D
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Sample : I1146-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

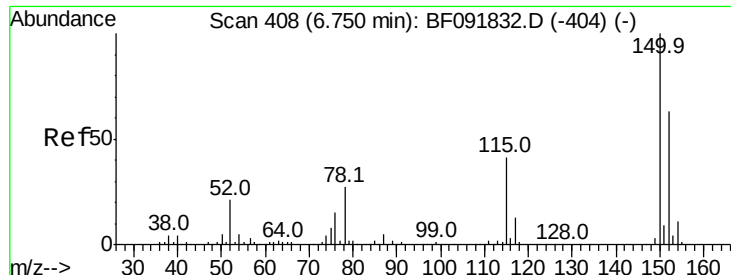
Instrument :
BNA_F
ClientSampleId :
P-17-11117

Manual Integrations
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1/16/2017 8:38:50 AM

Quant Time: Jan 16 01:16:14 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 16 01:02:36 2017
Response via : Initial Calibration





#1

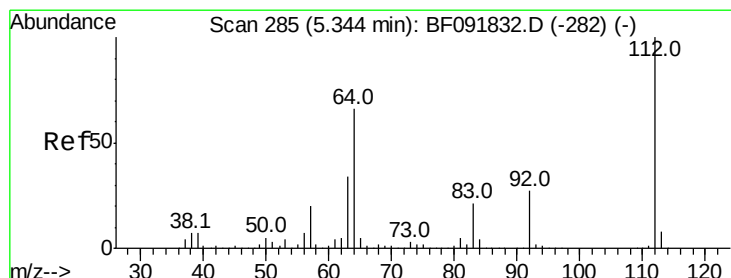
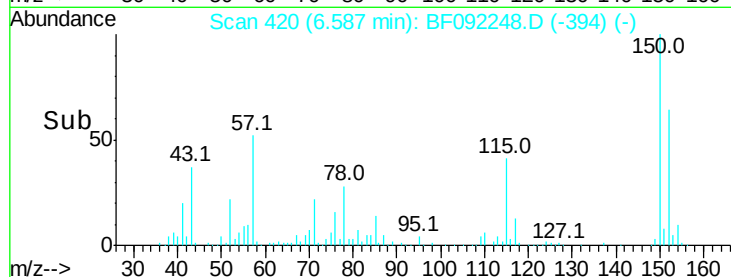
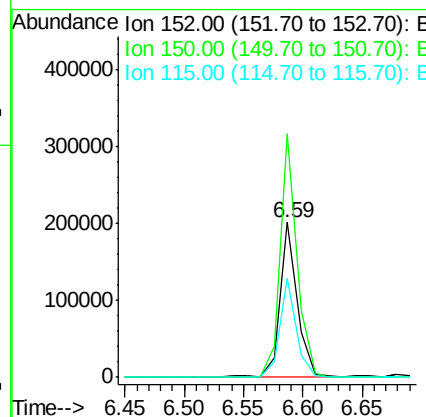
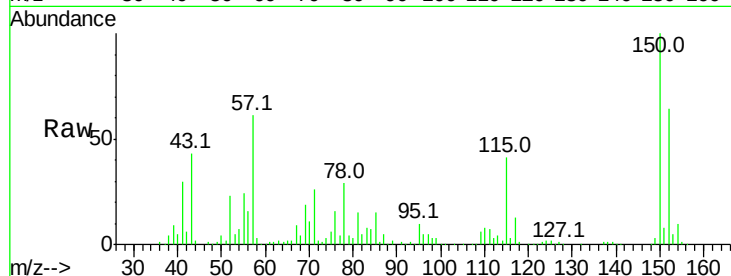
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.59 min Scan# 420
Delta R.T. 0.00 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Instrument :
BNA_F
ClientSampleId :
P-17-11117

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.9	187.3
115	63.8	46.0	69.0

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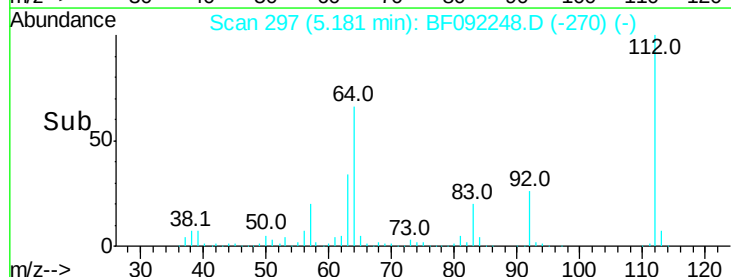
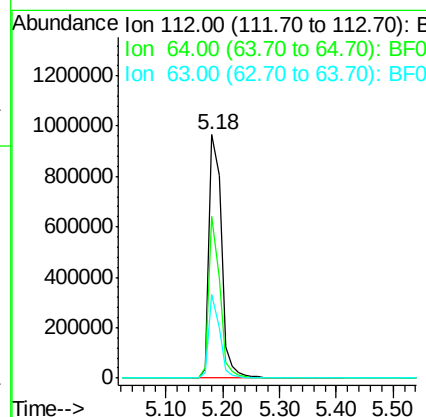
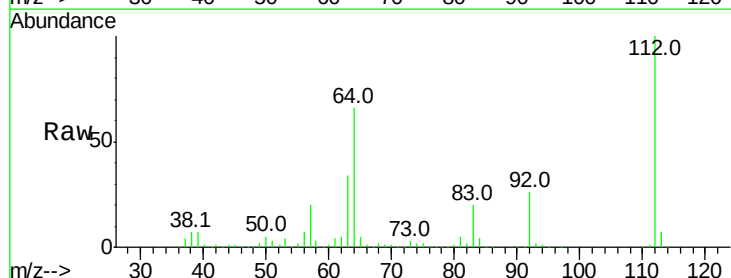
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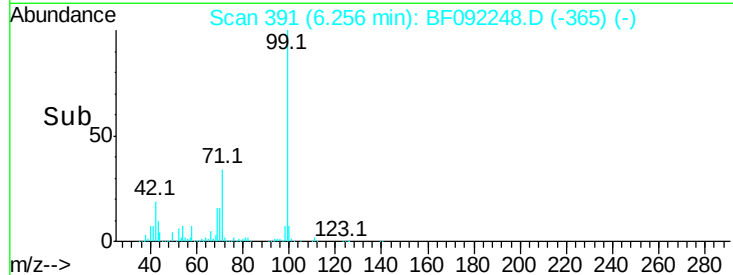
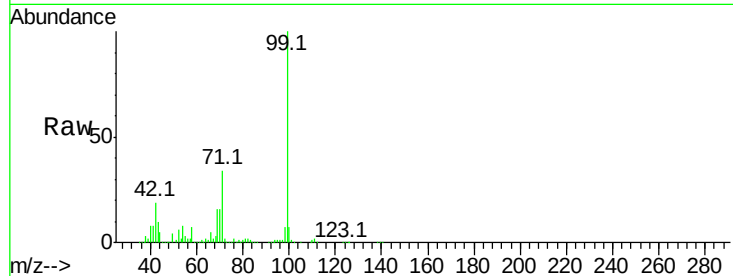
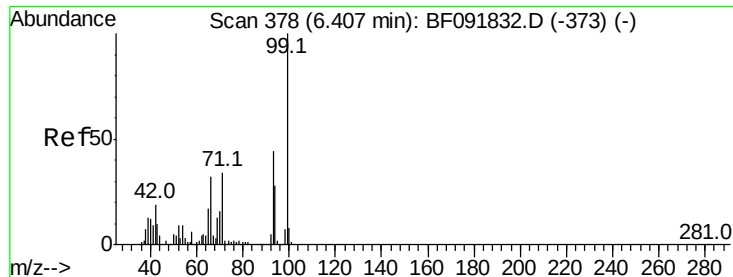


#5

2-Fluorophenol
Concen: 113.81 ng
RT: 5.18 min Scan# 297
Delta R.T. 0.01 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.4	46.1	69.1
63	34.4	23.8	35.6





#7

Phenol-d6

Concen: 113.44 ng

RT: 6.26 min Scan# 391

Delta R.T. 0.00 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Tot Ion: 99 Resp: 1700109

Ion Ratio Lower Upper

99 100

42 19.0 15.6 23.4

71 34.4 27.5 41.3

Instrument :

BNA_F

ClientSampled :

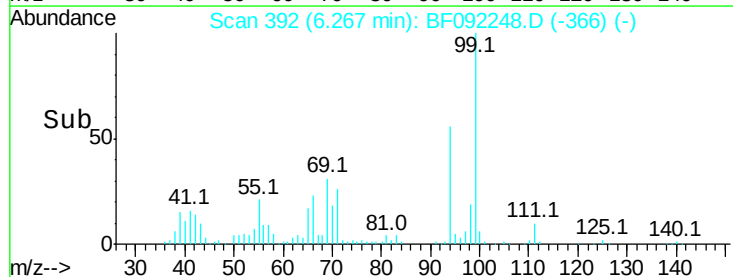
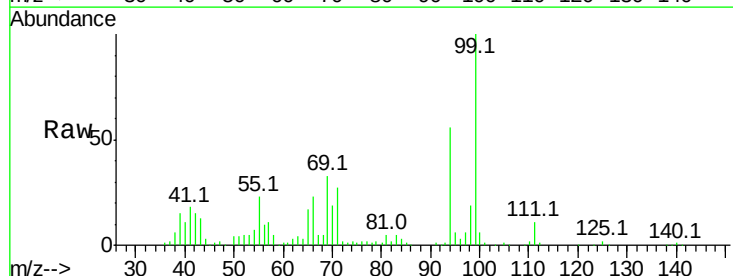
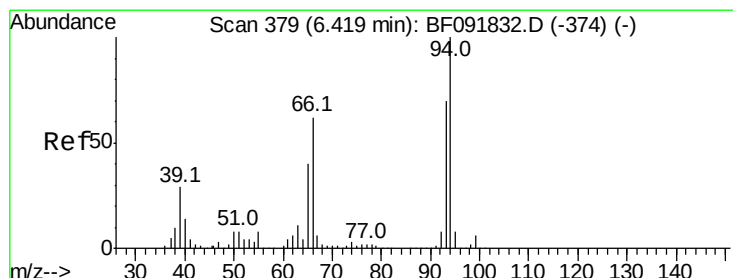
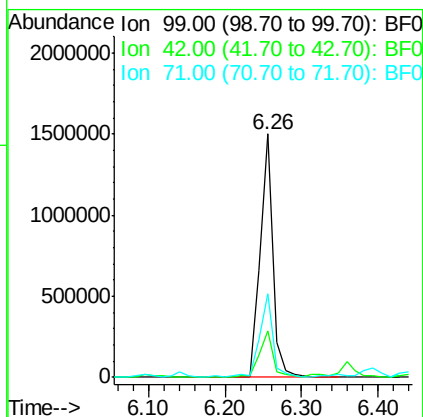
P-17-11117

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#10

Phenol

Concen: 6.79 ng

RT: 6.27 min Scan# 392

Delta R.T. 0.00 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

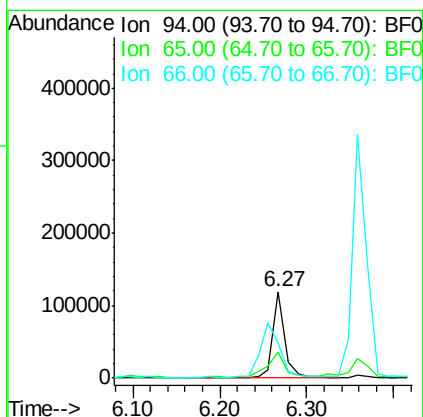
Tgt Ion: 94 Resp: 115899

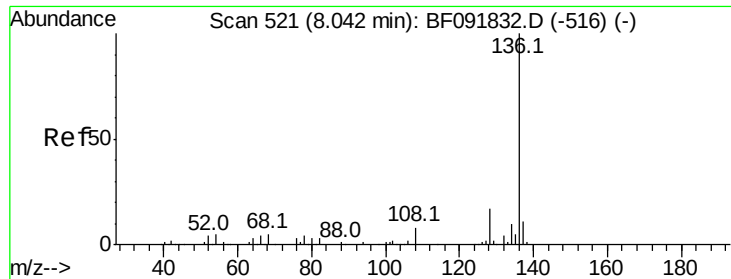
Ion Ratio Lower Upper

94 100

65 30.1 21.4 61.4

66 40.7 44.0 84.0#





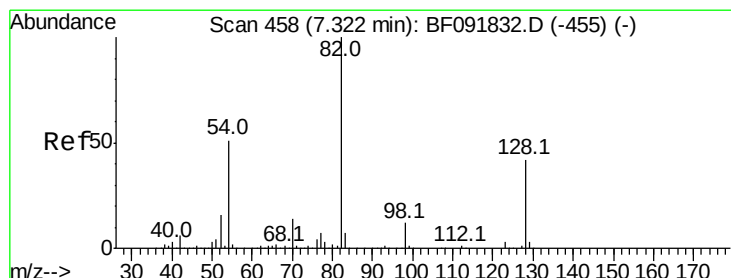
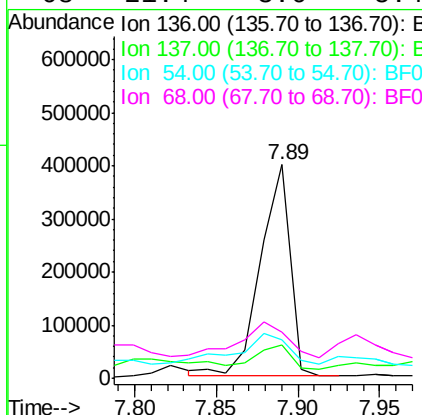
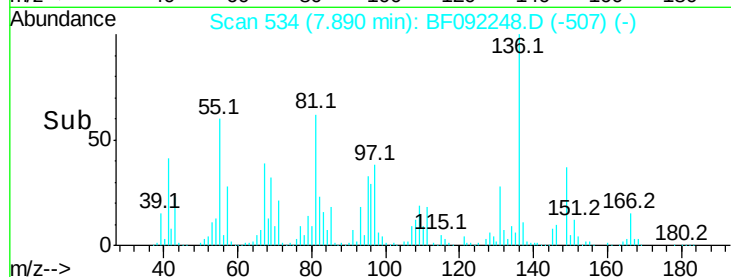
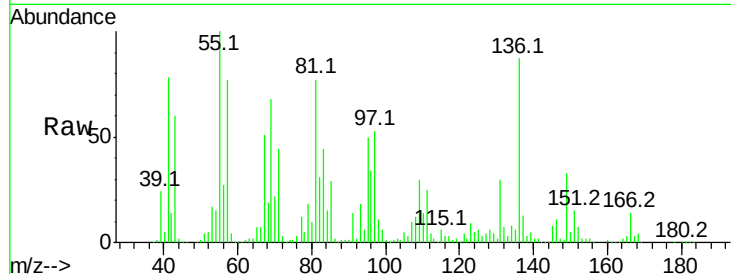
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.89 min Scan# 534
Delta R.T. 0.01 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Instrument :
BNA_F
ClientSampleId :
P-17-11117

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	15.4	8.4	12.6#	
54	17.8	4.5	6.7#	
68	21.4	3.6	5.4#	

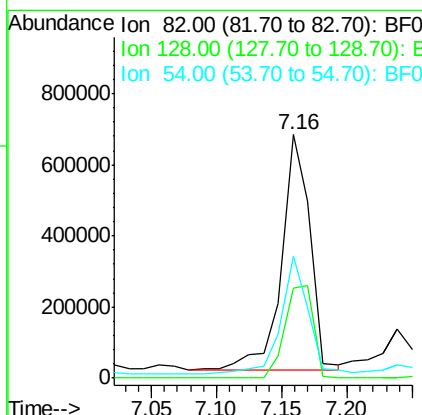
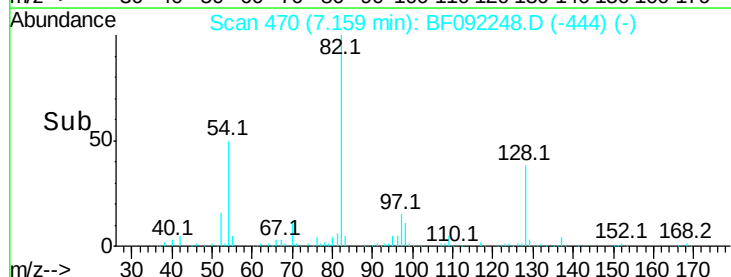
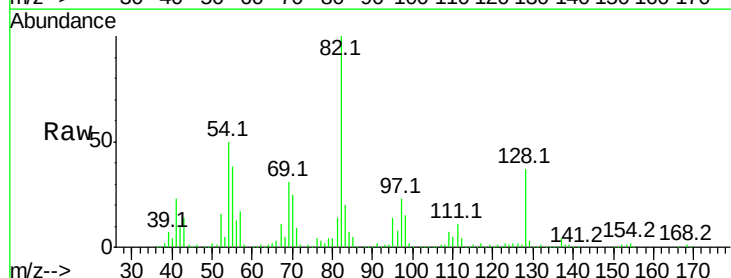
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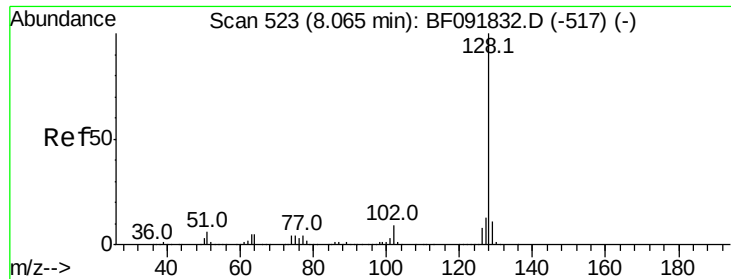
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#23
Nitrobenzene-d5
Concen: 111.49 ng
RT: 7.16 min Scan# 470
Delta R.T. 0.00 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	36.8	34.6	52.0	
54	50.3	39.5	59.3	





#31

Naphthalene

Concen: 10.10 ng

RT: 7.90 min Scan# 535

Delta R.T. 0.00 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Instrument :

BNA_F

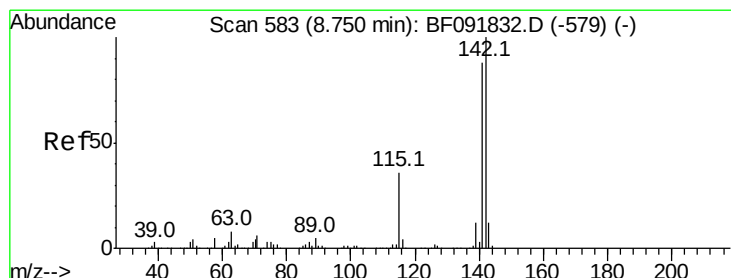
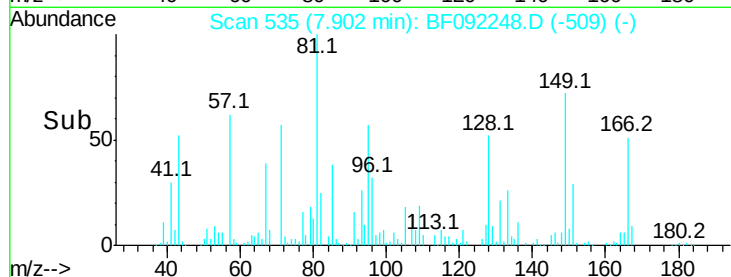
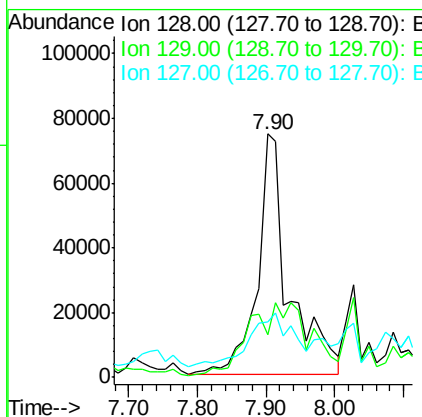
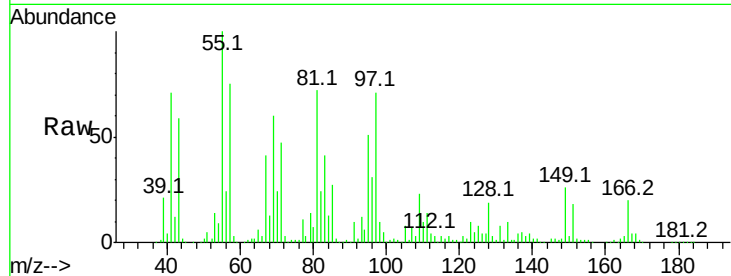
ClientSampled :

P-17-11117

Tot Ion:	128	Resp:	231498
Ion Ratio	Lower	Upper	
128	100		
129	17.4	9.5	14.3#
127	22.9	10.8	16.2#

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#37

2-Methylnaphthalene

Concen: 7.23 ng

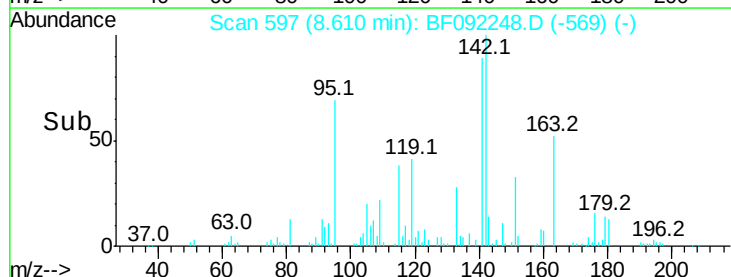
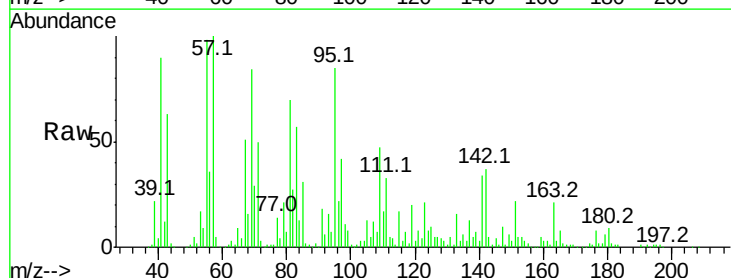
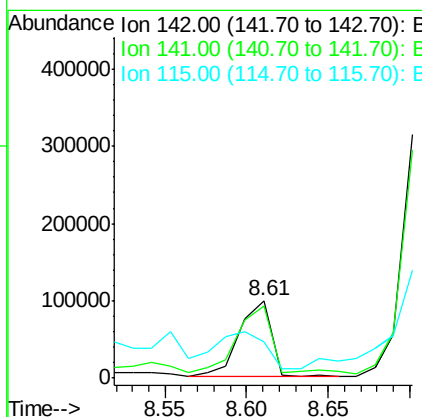
RT: 8.61 min Scan# 597

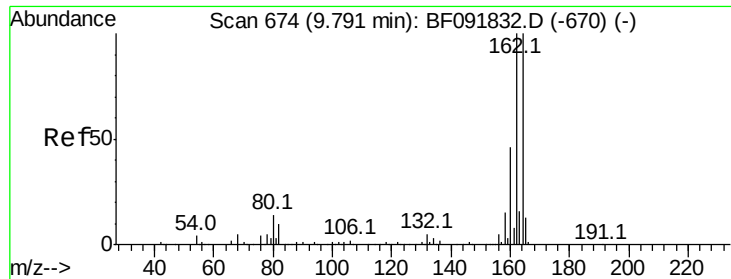
Delta R.T. 0.02 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Tgt Ion:	142	Resp:	135820
Ion Ratio	Lower	Upper	
142	100		
141	93.0	71.0	106.6
115	46.9	28.3	42.5#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.64 min Scan# 687

Delta R.T. 0.01 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Instrument :

BNA_F

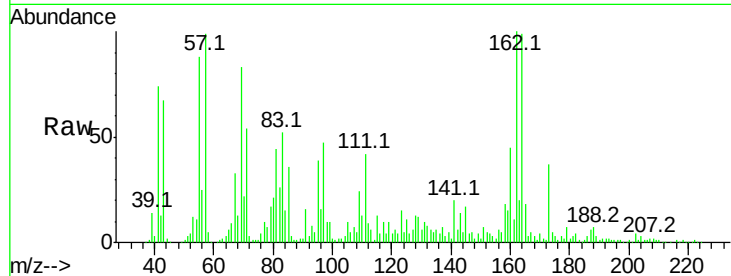
ClientSampleId :

P-17-11117

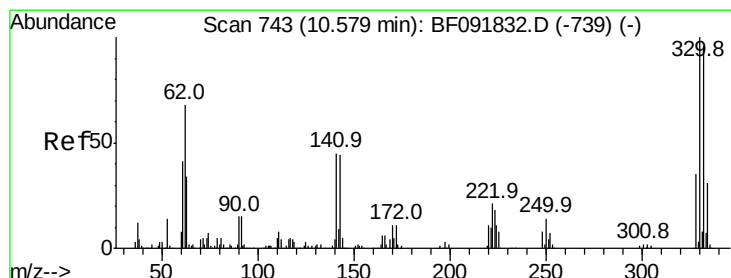
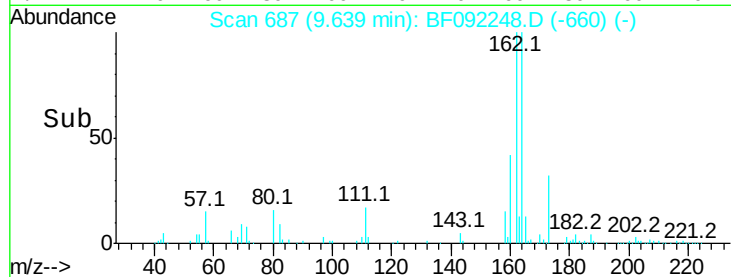
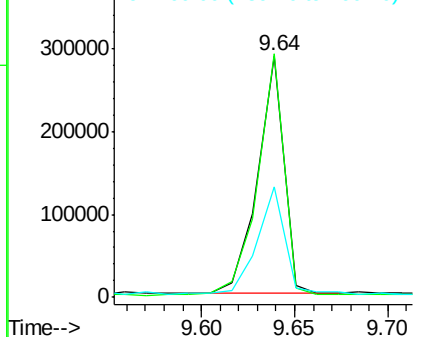
Tot Ion:	164	Resp:	277789
Ion Ratio	Lower	Upper	
164	100		
162	101.0	80.2	120.2
160	45.9	36.9	55.3

Manual Integrations
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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



#41

2,4,6-Tribromophenol

Concen: 120.54 ng

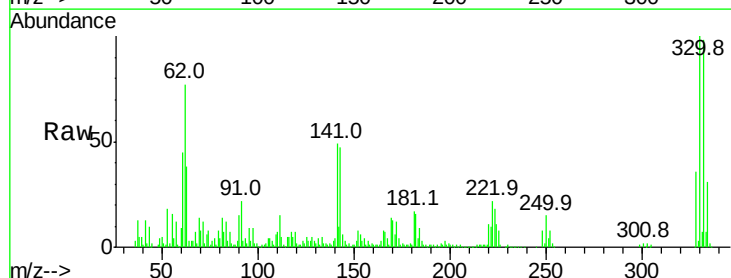
RT: 10.42 min Scan# 755

Delta R.T. 0.00 min

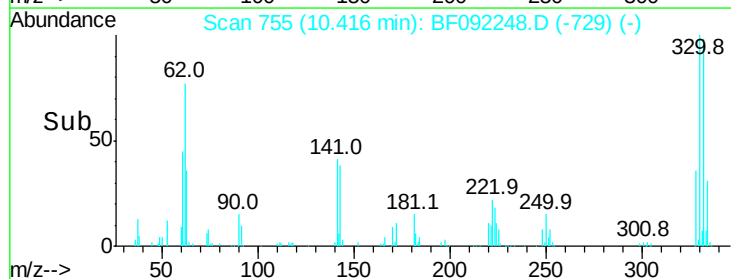
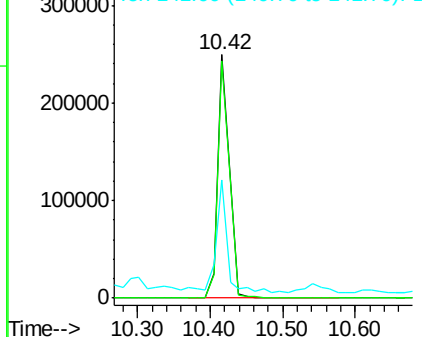
Lab File: BF092248.D

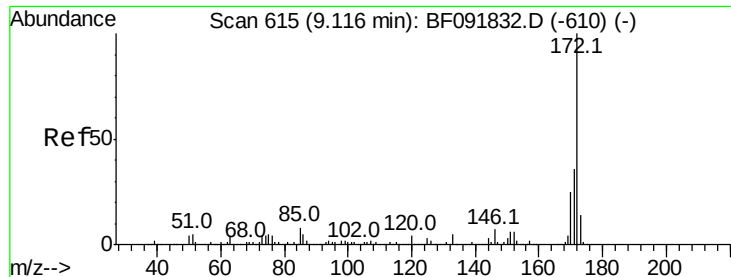
Acq: 13 Jan 2017 14:43

Tgt Ion:	330	Resp:	277101
Ion Ratio	Lower	Upper	
330	100		
332	97.4	77.4	116.2
141	41.8	34.1	51.1



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





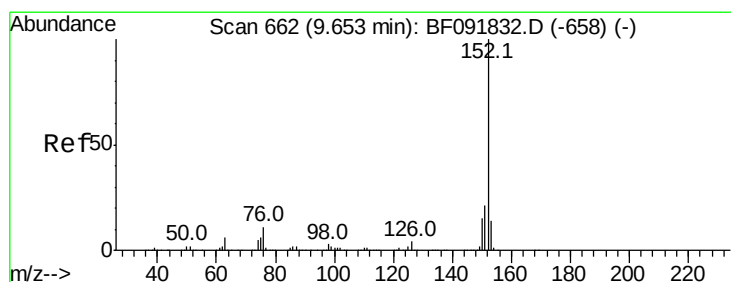
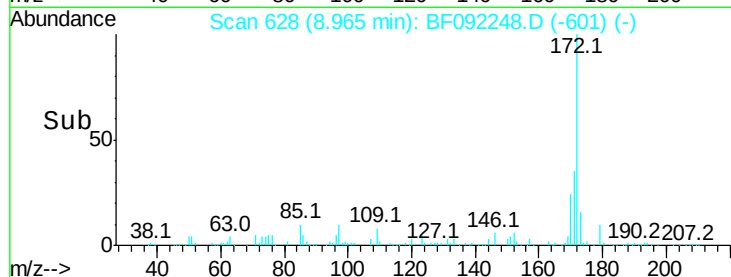
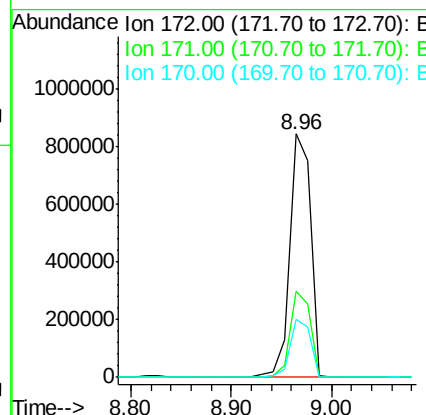
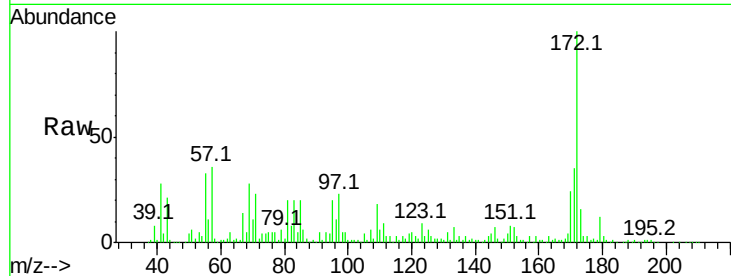
#44
2-Fluorobiphenyl
Concen: 90.34 ng
RT: 8.96 min Scan# 628
Delta R.T. 0.01 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Instrument :
BNA_F
ClientSampled :
P-17-11117

Tot Ion:172 Resp: 1213850
Ion Ratio Lower Upper
172 100
171 35.1 29.4 44.0
170 23.6 20.2 30.4

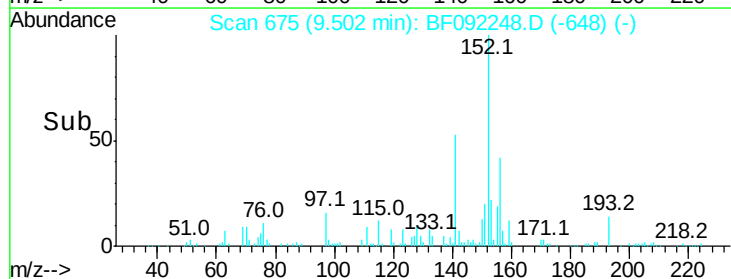
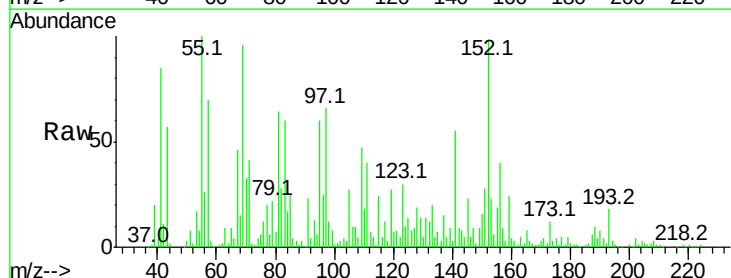
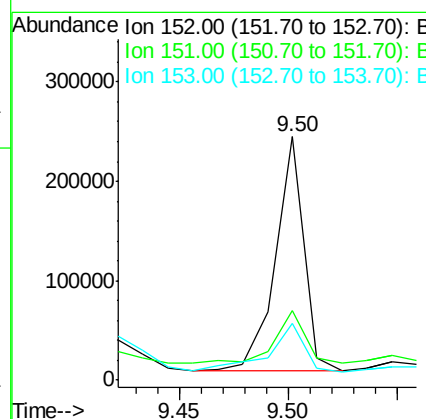
Manual Integrations
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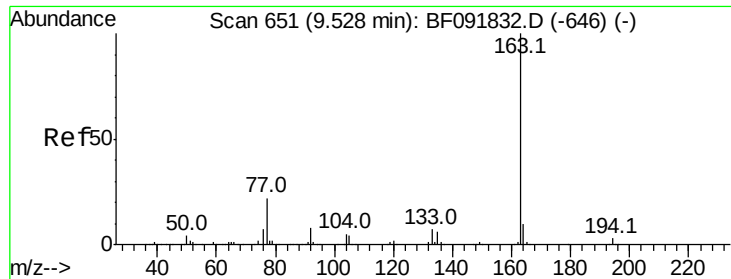
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#48
Acenaphthylene
Concen: 9.44 ng
RT: 9.50 min Scan# 675
Delta R.T. 0.01 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Tgt Ion:152 Resp: 218780
Ion Ratio Lower Upper
152 100
151 28.7 16.9 25.3#
153 23.3 11.4 17.2#





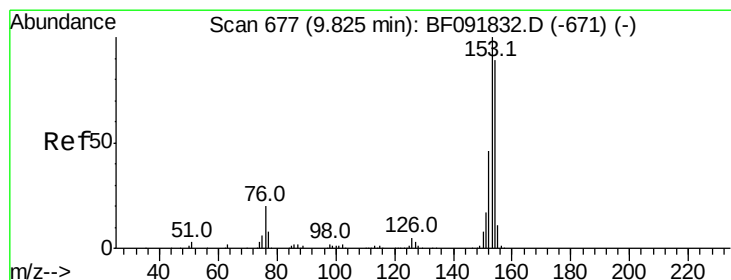
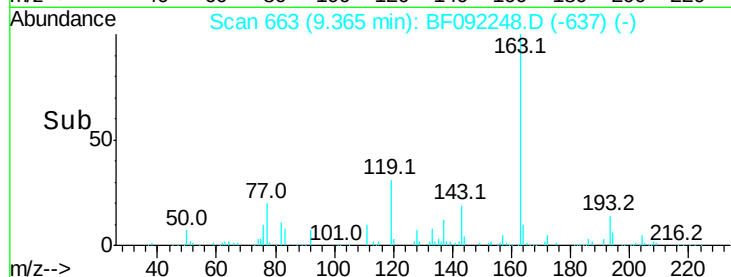
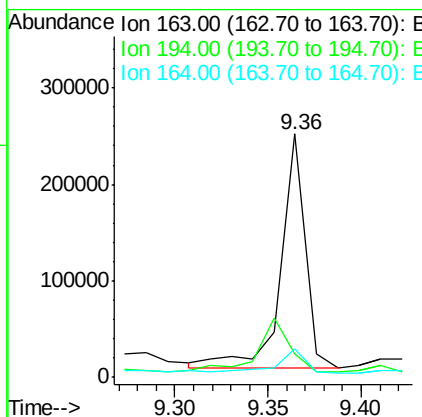
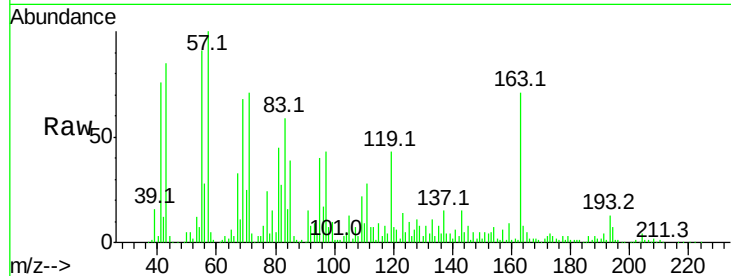
#49
Dimethylphthalate
Concen: 12.45 ng
RT: 9.36 min Scan# 663
Delta R.T. 0.00 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Instrument :
BNA_F
ClientSampleId :
P-17-11117

Tot Ion	Ratio	Resp	Lower	Upper
163	100	221221		
194	9.6	3.0	4.4#	
164	11.9	8.0	12.0	

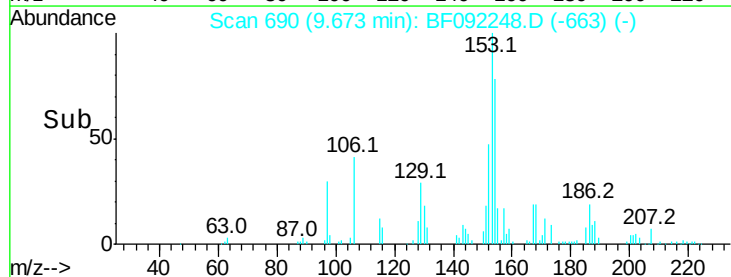
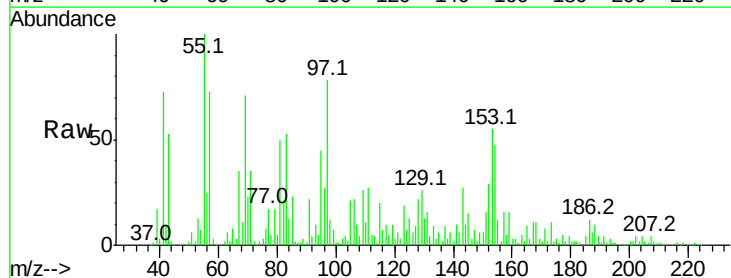
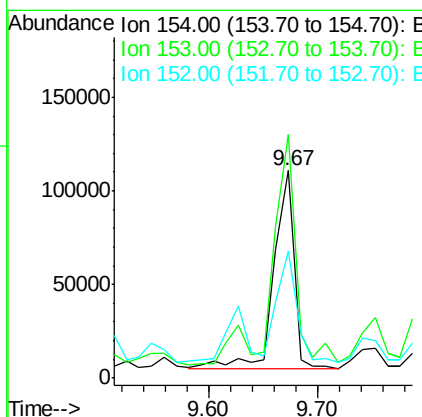
Manual Integrations
APPROVED

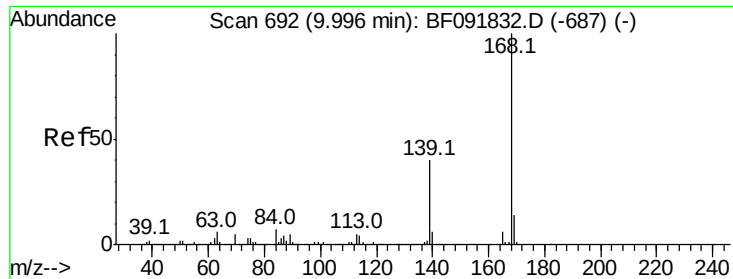
Sohil
1/16/2017 8:38:50 AM



#51
Acenaphthene
Concen: 8.85 ng
RT: 9.67 min Scan# 690
Delta R.T. 0.01 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	138986		
153	117.3	88.6	133.0	
152	61.3	41.6	62.4	





#54

Dibenzofuran

Concen: 7.46 ng

RT: 9.84 min Scan# 705

Delta R.T. 0.01 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Instrument :

BNA_F

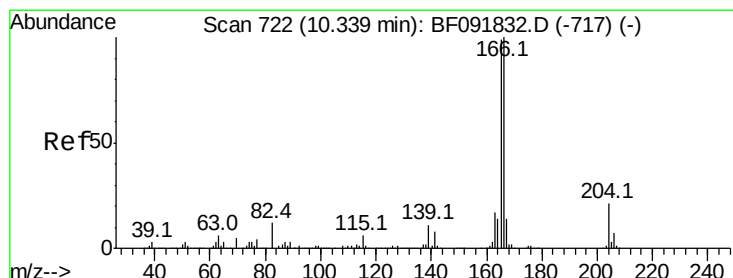
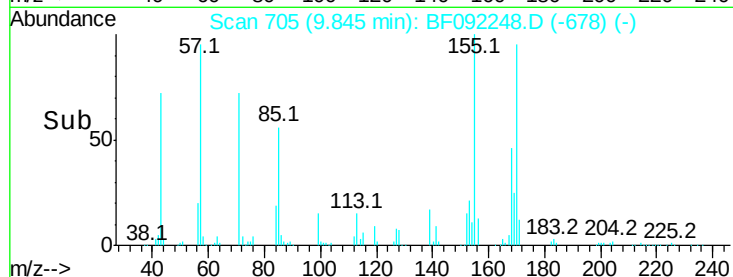
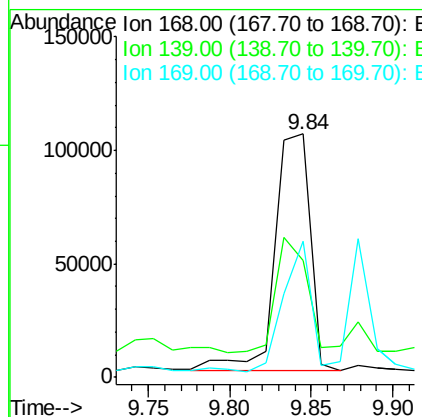
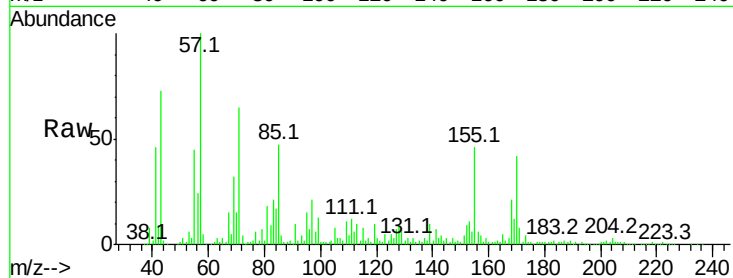
ClientSampled :

P-17-11117

Tot Ion:	168	Resp:	158308
Ion Ratio	Lower	Upper	
168	100		
139	47.8	32.6	49.0
169	55.7	11.3	16.9#

Manual Integrations
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#57

Fluorene

Concen: 17.22 ng

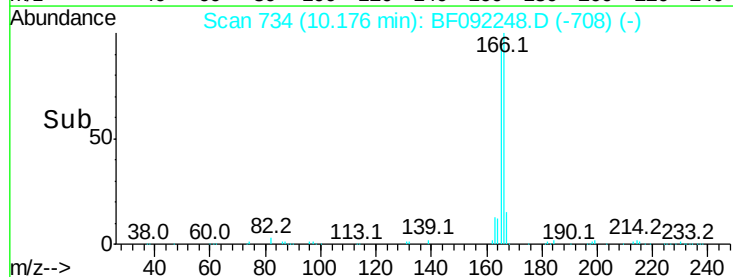
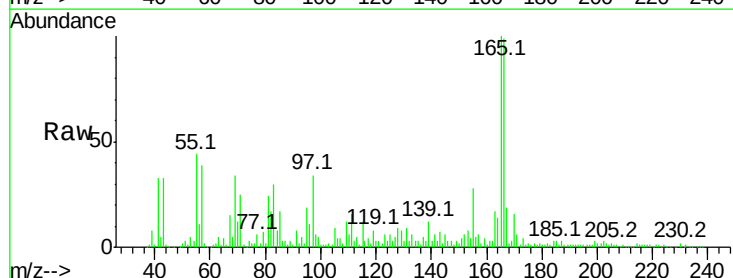
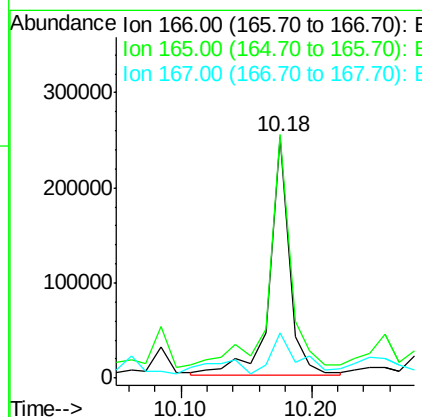
RT: 10.18 min Scan# 734

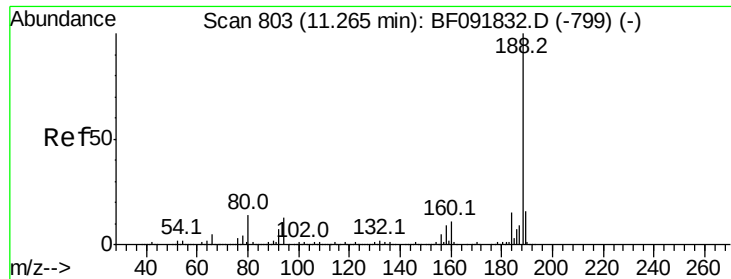
Delta R.T. 0.00 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Tgt Ion:	166	Resp:	265708
Ion Ratio	Lower	Upper	
166	100		
165	101.0	77.8	116.8
167	18.8	10.8	16.2#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.10 min Scan# 815

Delta R.T. 0.00 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Instrument :

BNA_F

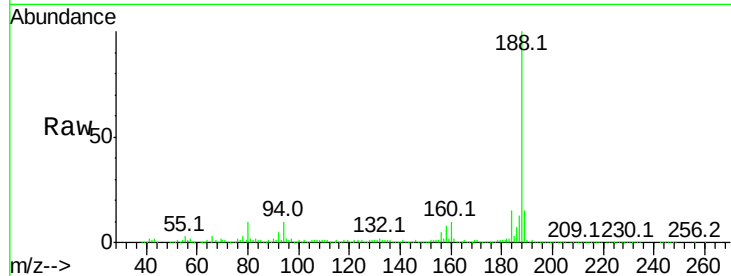
ClientSampled :

P-17-11117

Tot Ion:188	Resp:	517345
Ion Ratio	Lower	Upper
188 100		
94 10.0	10.0	15.0#
80 10.1	11.2	16.8#

Manual Integrations
APPROVED

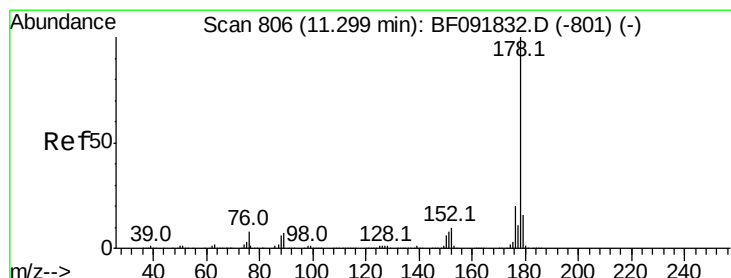
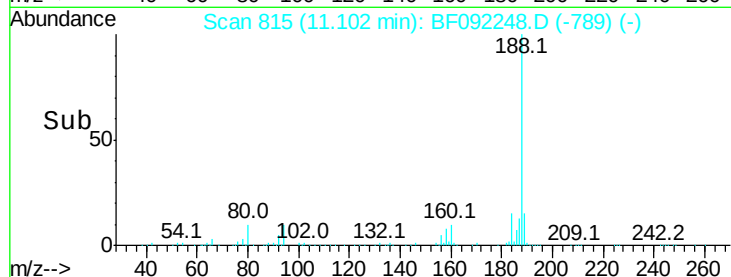
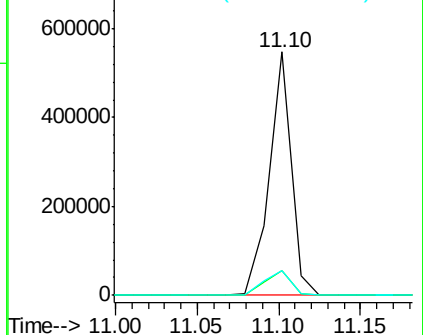
Sohil
1/16/2017 8:38:50 AM



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: 42.74 ng

RT: 11.12 min Scan# 817

Delta R.T. 0.00 min

Lab File: BF092248.D

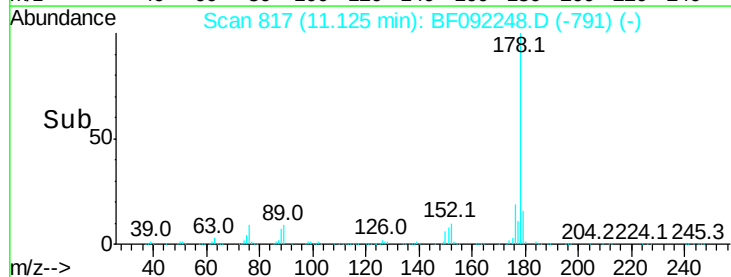
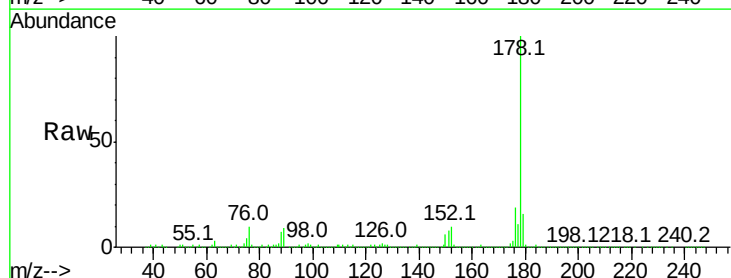
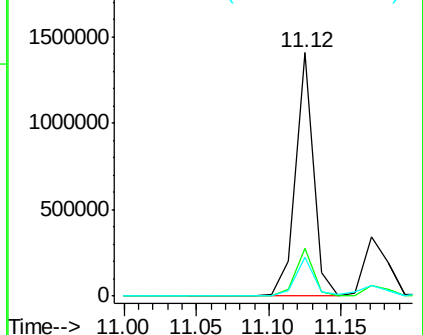
Acq: 13 Jan 2017 14:43

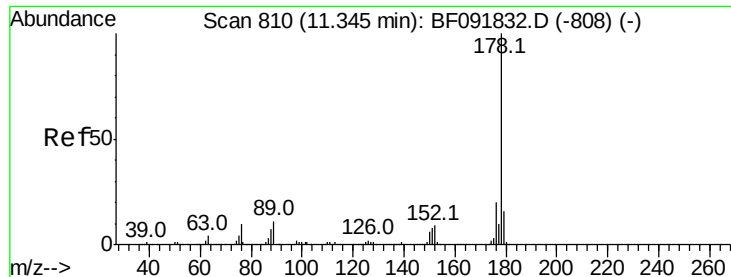
Tgt Ion:178	Resp:	1198894
Ion Ratio	Lower	Upper
178 100		
176 19.5	16.6	25.0
179 16.1	12.8	19.2

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





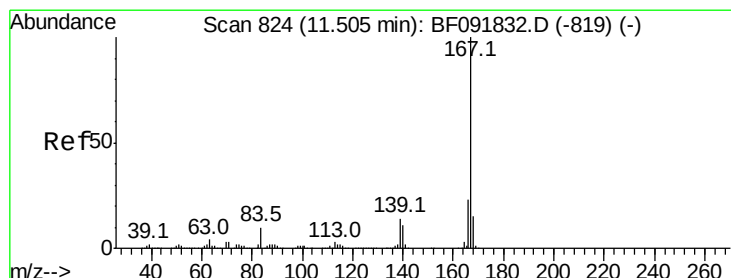
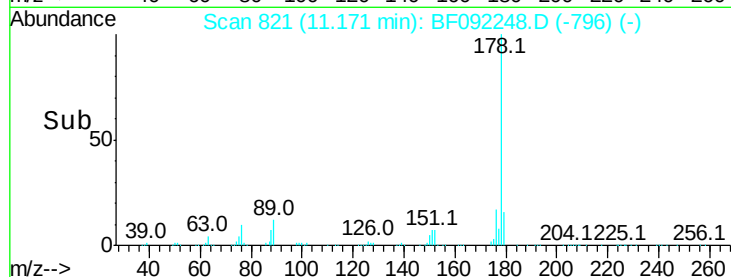
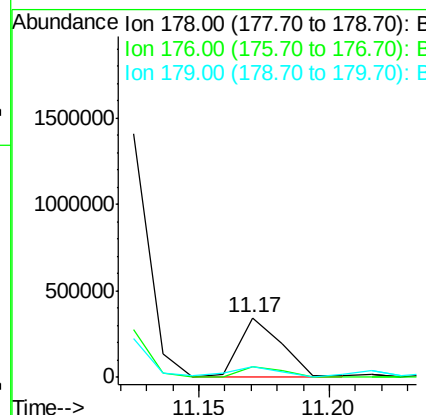
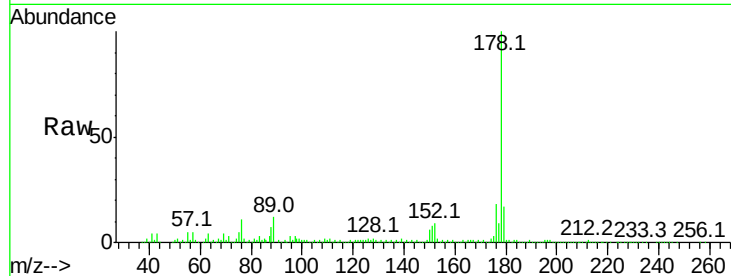
#71
 Anthracene
 Concen: 11.55 ng
 RT: 11.17 min Scan# 821
 Delta R.T. -0.01 min
 Lab File: BF092248.D
 Acq: 13 Jan 2017 14:43

Instrument :
 BNA_F
 ClientSampleId :
 P-17-11117

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.9	23.9
179	16.9	13.2	19.8

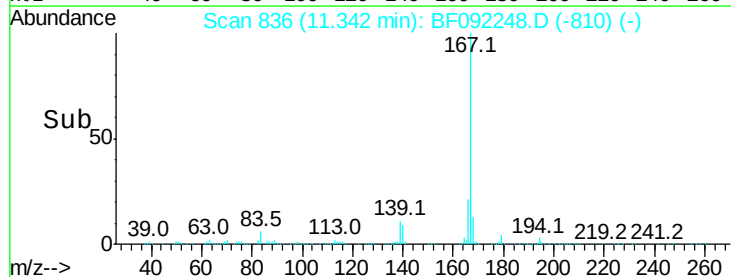
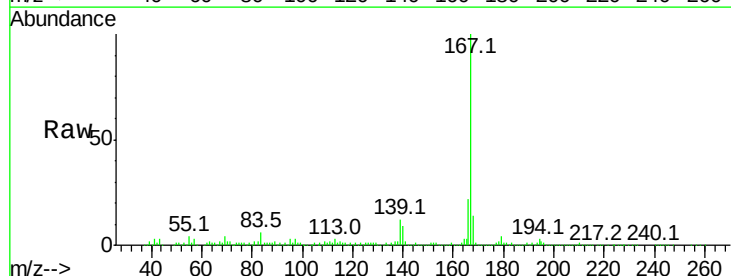
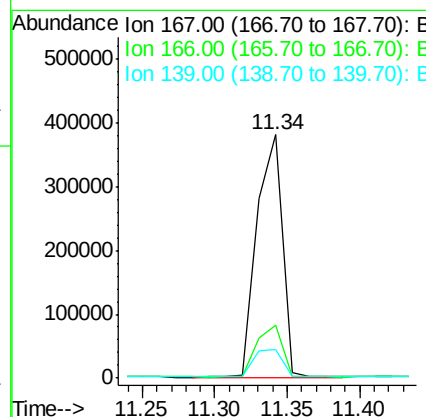
Manual Integrations
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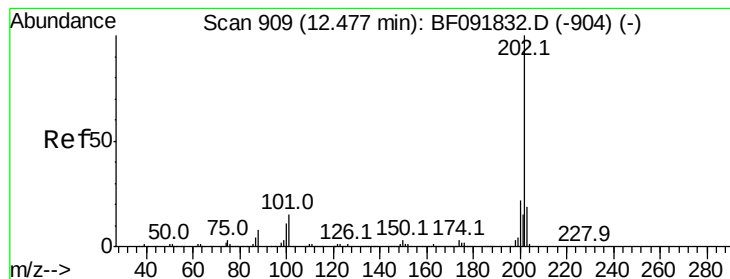
Sohil
 1/16/2017 8:38:50 AM



#72
 Carbazole
 Concen: 15.57 ng
 RT: 11.34 min Scan# 836
 Delta R.T. 0.00 min
 Lab File: BF092248.D
 Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	18.2	27.2
139	11.7	11.4	17.2





#74

Fluoranthene

Concen: 58.70 ng

RT: 12.31 min Scan# 921

Delta R.T. 0.01 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Instrument :

BNA_F

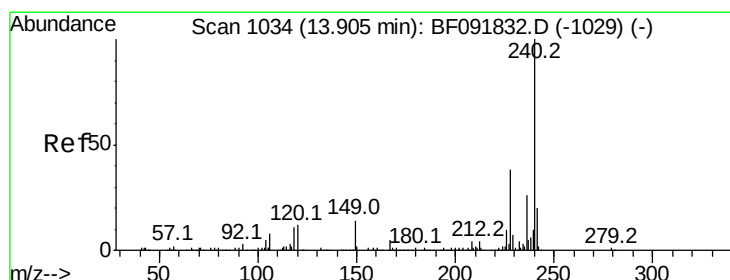
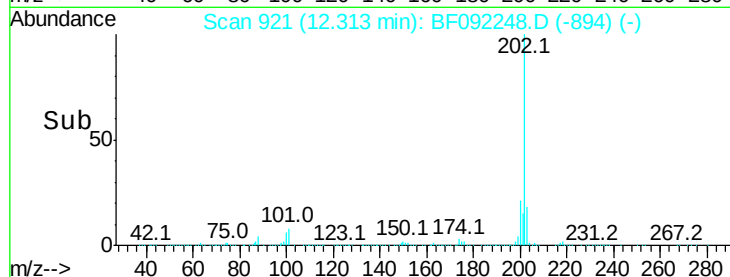
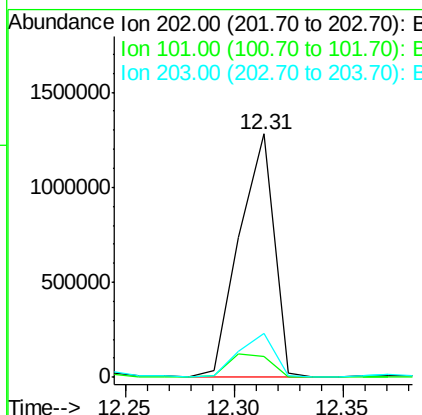
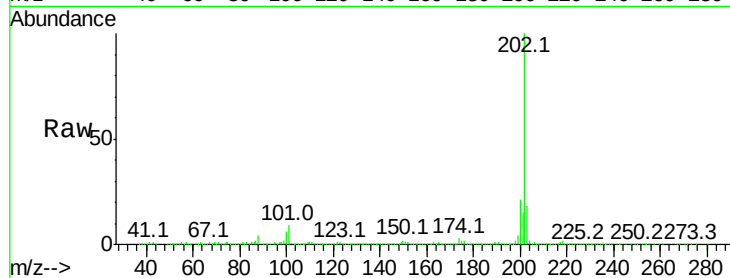
ClientSampled :

P-17-11117

Tot Ion	Ratio	Lower	Upper
202	100		
101	8.5	0.0	34.6
203	18.0	0.0	38.7

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

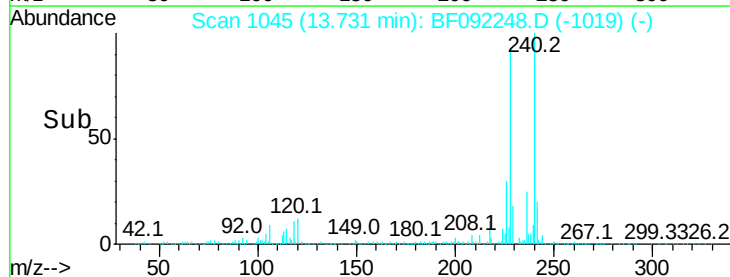
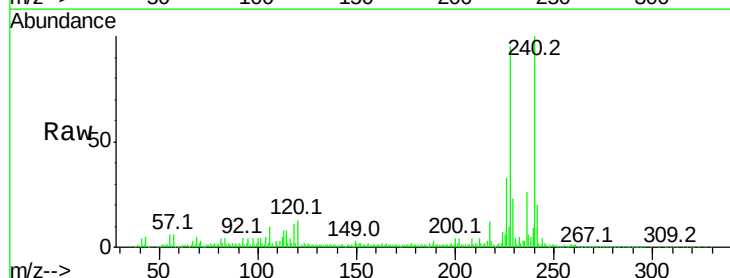
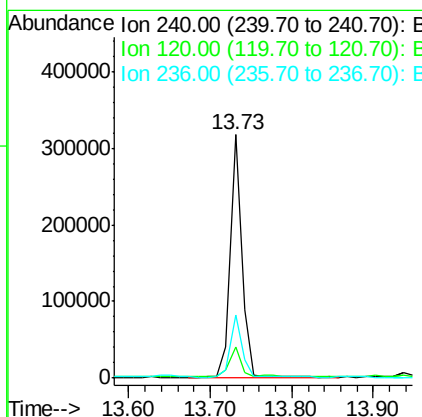
RT: 13.73 min Scan# 1045

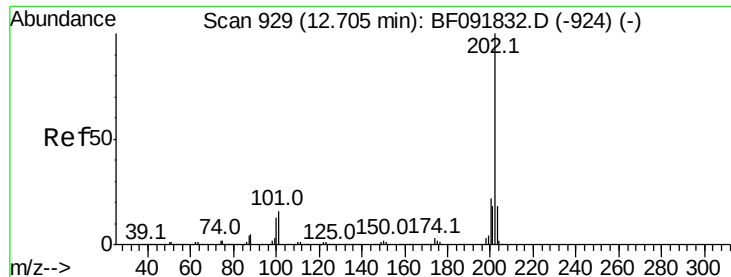
Delta R.T. 0.00 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.6	12.9	19.3#
236	26.0	20.9	31.3





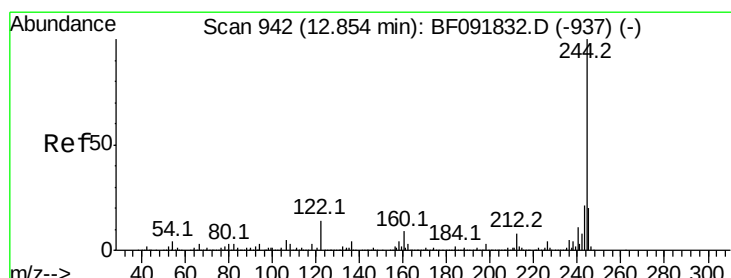
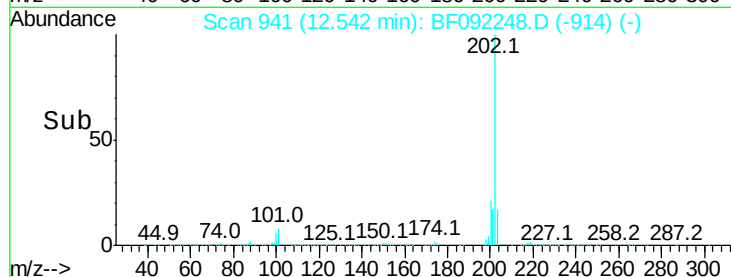
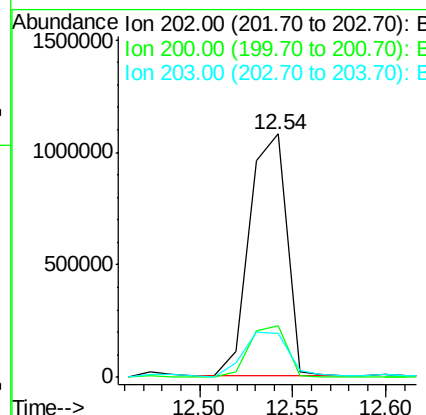
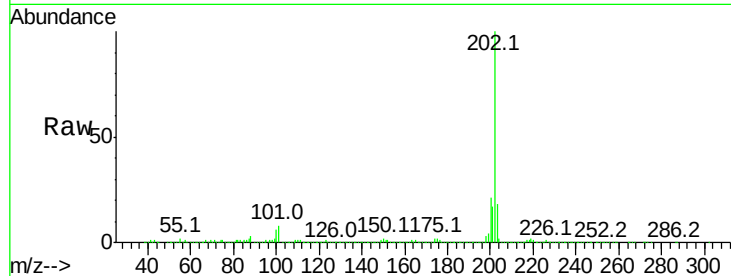
#77
Pvrene
Concen: 65.17 ng
RT: 12.54 min Scan# 941
Delta R.T. 0.01 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Instrument :
BNA_F
ClientSampled :
P-17-11117

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.7	26.5
203	17.9	14.7	22.1

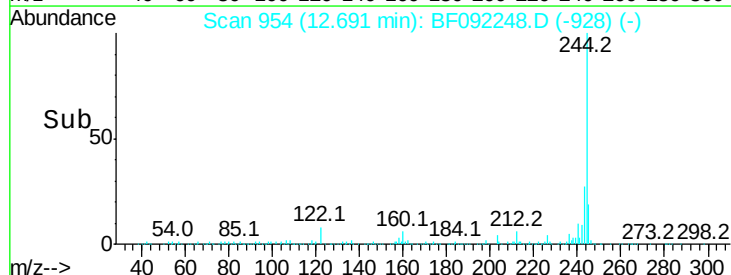
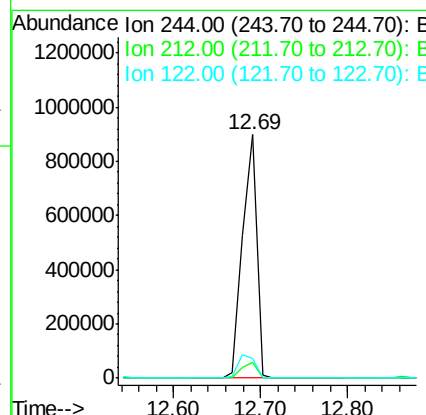
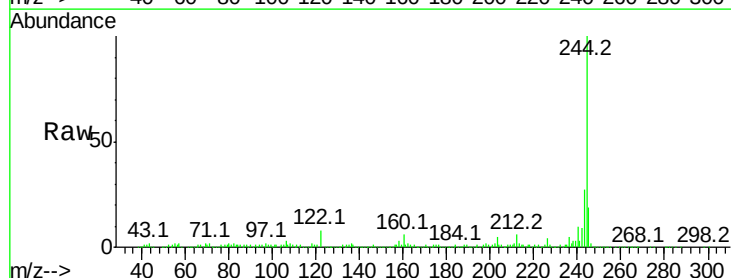
Manual Integrations
APPROVED

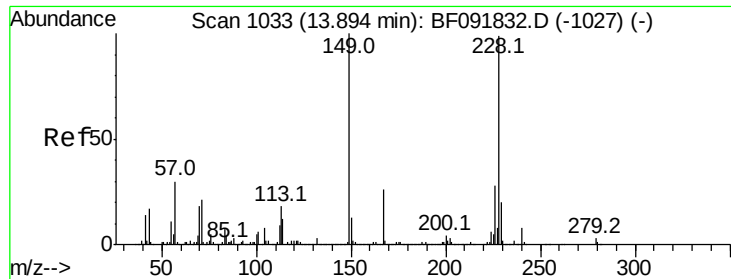
Sohil
1/16/2017 8:38:50 AM



#78
Terphenyl-d14
Concen: 78.13 ng
RT: 12.69 min Scan# 954
Delta R.T. 0.00 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	6.2	9.2
122	7.9	11.4	17.2





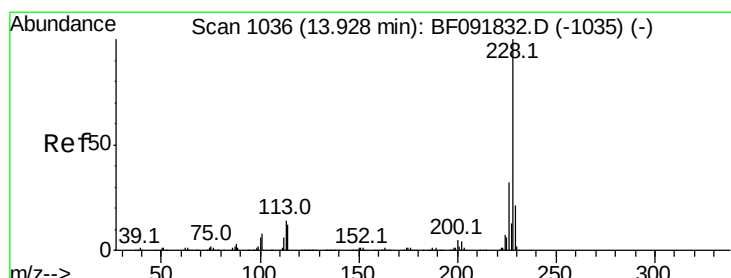
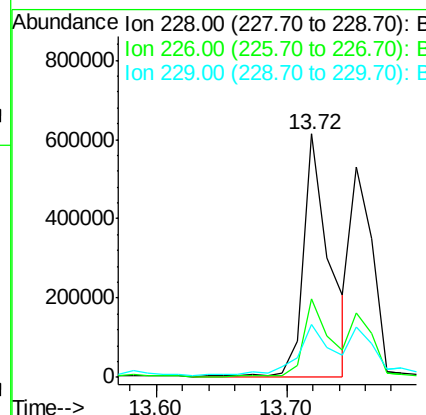
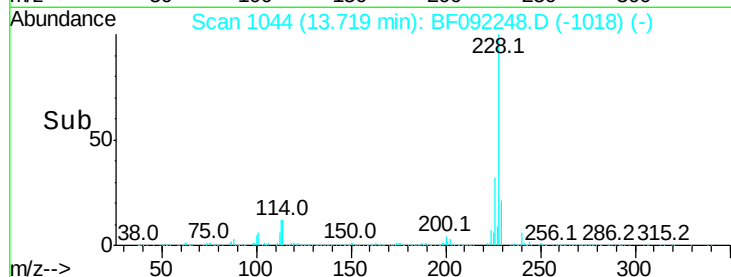
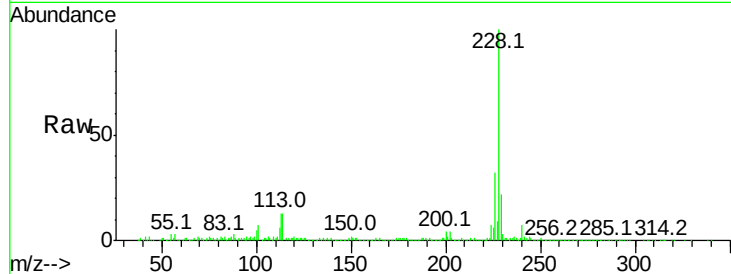
#80
Benzo(a)anthracene
Concen: 47.92 ng
RT: 13.72 min Scan# 1044
Delta R.T. 0.00 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Instrument :
BNA_F
ClientSampleId :
P-17-11117

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.3	22.4	33.6
229	21.9	16.2	24.4

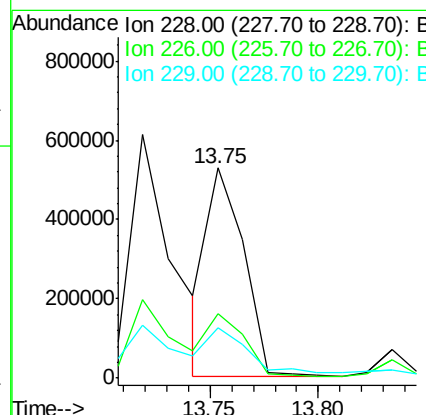
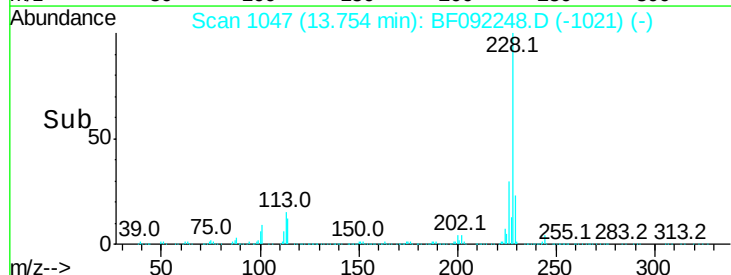
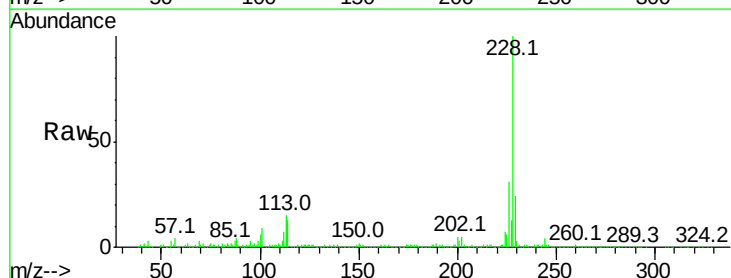
Manual Integrations
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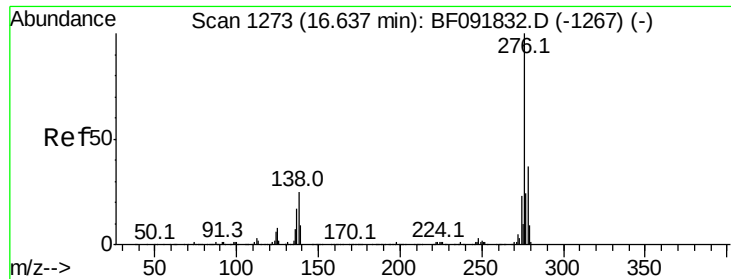
Sohil
1/16/2017 8:38:50 AM



#82
Chrysene
Concen: 34.72 ng
RT: 13.75 min Scan# 1047
Delta R.T. 0.00 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.4	38.0
229	24.1	16.2	24.2





#85

Indeno(1,2,3-cd)pyrene

Concen: 23.27 ng

RT: 16.34 min Scan# 1273

Delta R.T. 0.01 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Instrument :

BNA_F

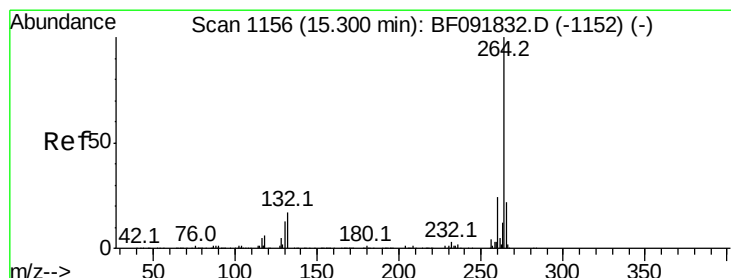
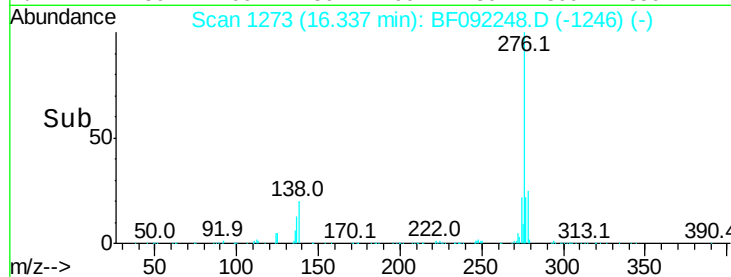
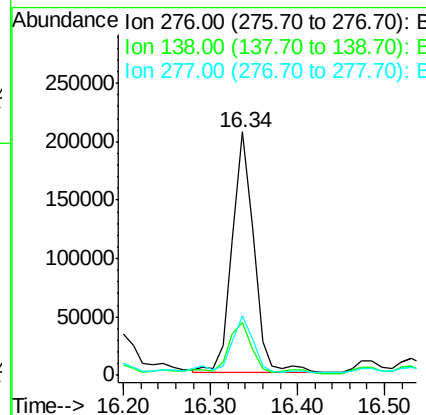
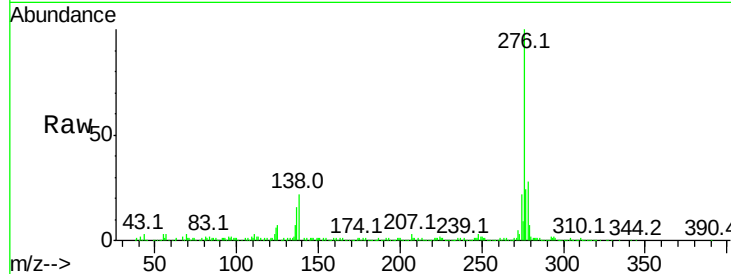
ClientSampleId :

P-17-11117

Tot Ion:	276	Resp:	356049
Ion Ratio	Lower	Upper	
276	100		
138	22.5	21.8	32.6
277	26.0	20.2	30.4

Manual Integrations
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1/16/2017 8:38:50 AM



#86

Perylene-d12

Concen: 20.00 ng

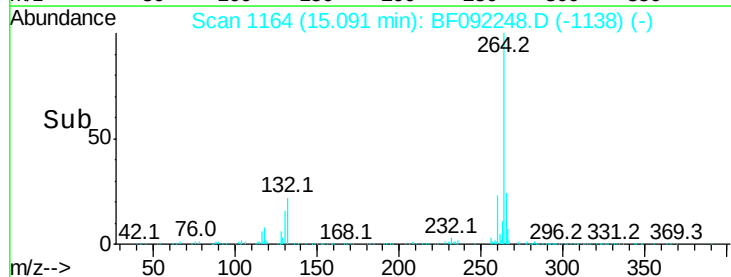
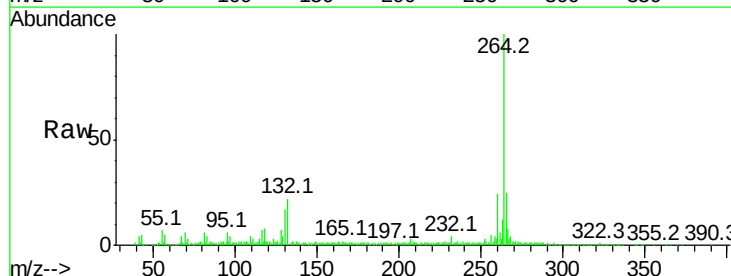
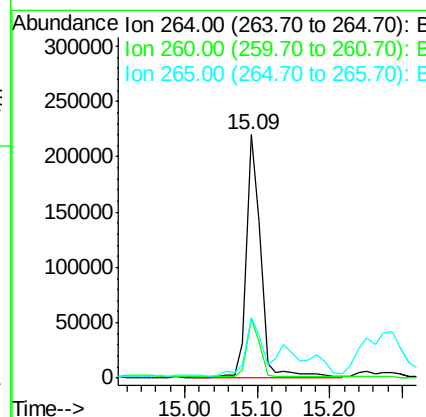
RT: 15.09 min Scan# 1164

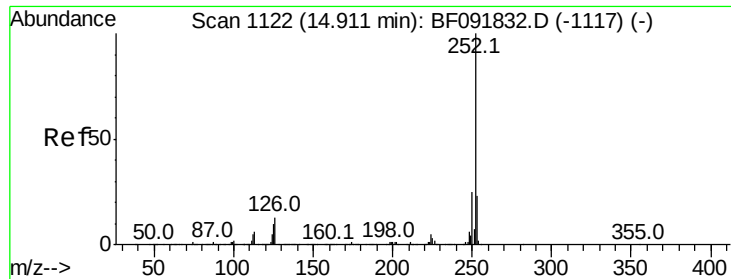
Delta R.T. 0.00 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Tgt Ion:	264	Resp:	298046
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.2	28.8
265	24.9	17.4	26.0





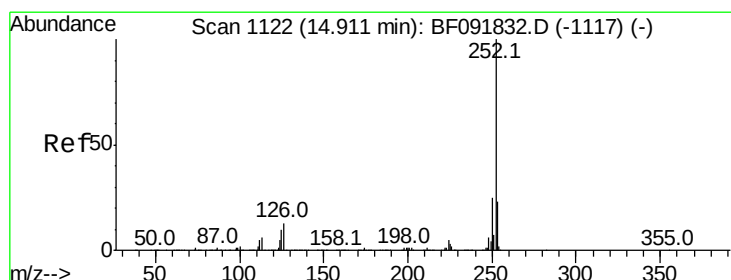
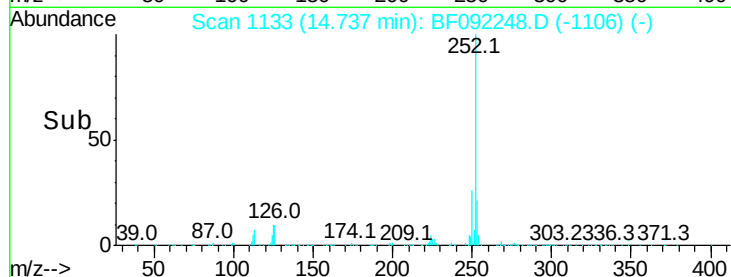
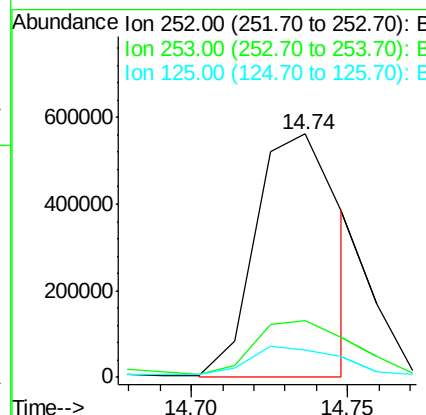
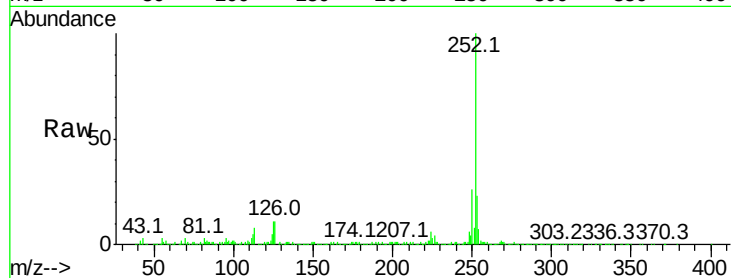
#87
Benzo(b)fluoranthene
Concen: 57.38 ng m
RT: 14.74 min Scan# 1133
Delta R.T. 0.01 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Instrument :
BNA_F
ClientSampleId :
P-17-11117

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	11.4	9.8	14.6

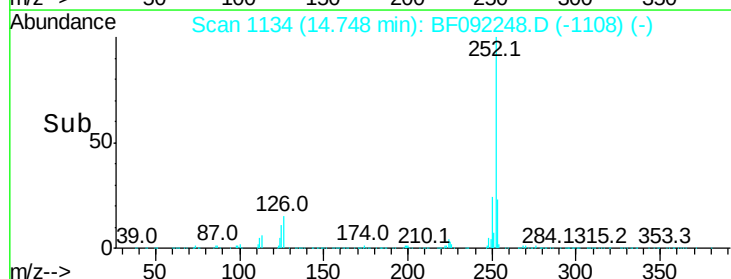
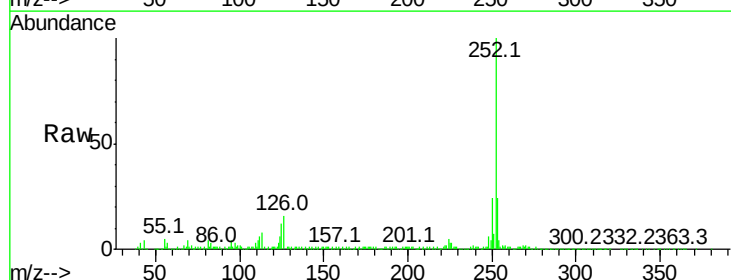
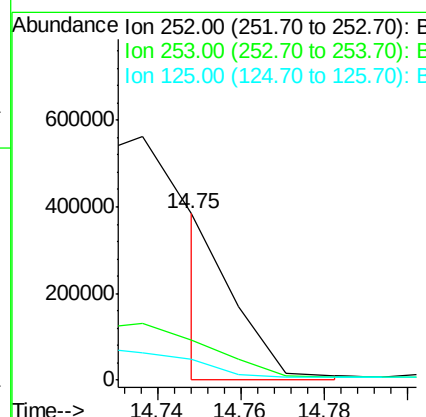
Manual Integrations
APPROVED

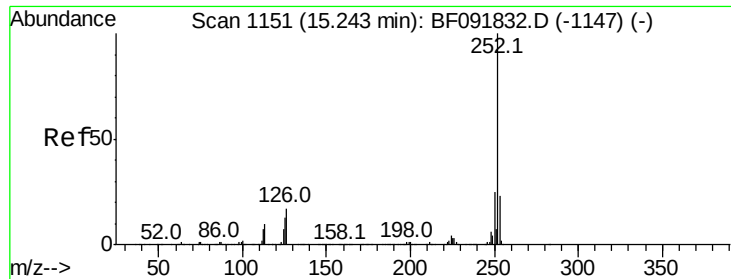
Sohil
1/16/2017 8:38:50 AM



#88
Benzo(k)fluoranthene
Concen: 8.31 ng m
RT: 14.75 min Scan# 1134
Delta R.T. 0.00 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.5	27.7
125	12.3	8.9	13.3





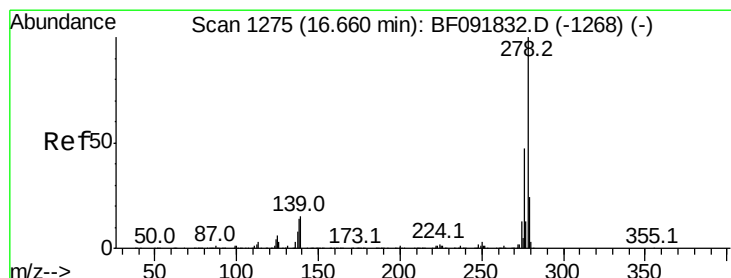
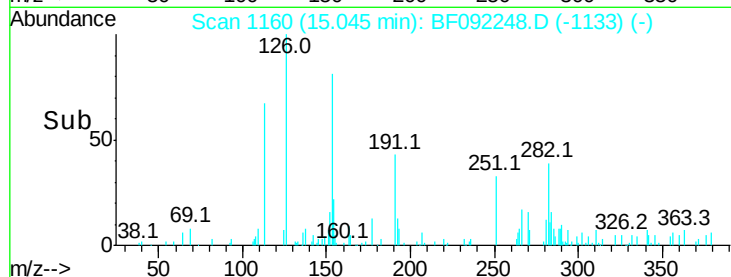
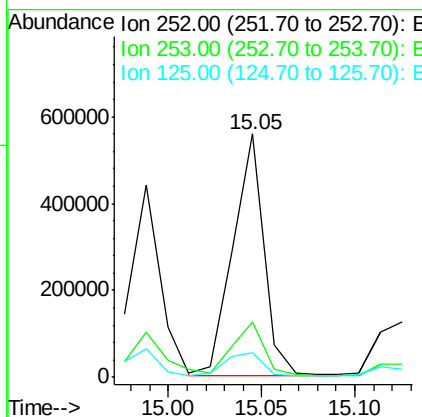
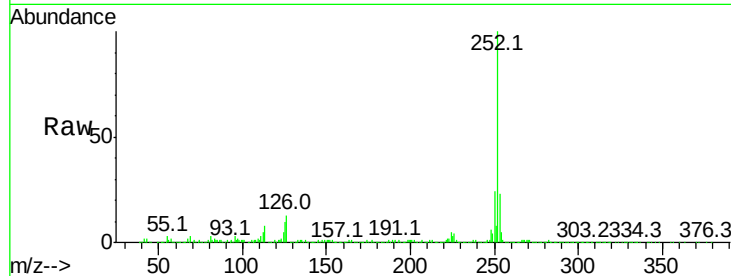
#89
Benzo(a)pyrene
Concen: 39.30 ng
RT: 15.05 min Scan# 1160
Delta R.T. 0.01 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Instrument :
BNA_F
ClientSampled :
P-17-11117

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.2
125	10.4	10.0	15.0

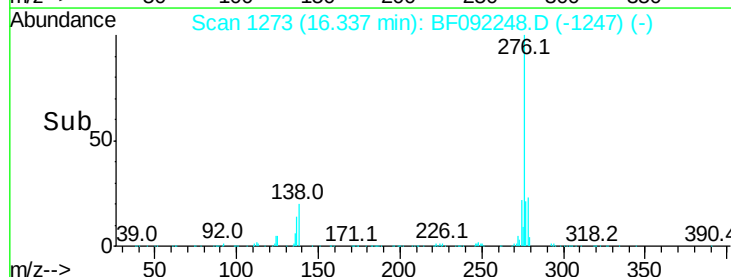
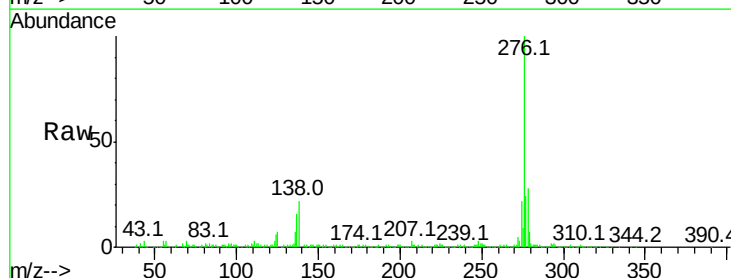
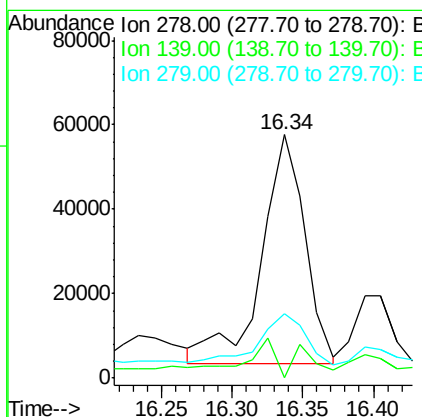
Manual Integrations
APPROVED

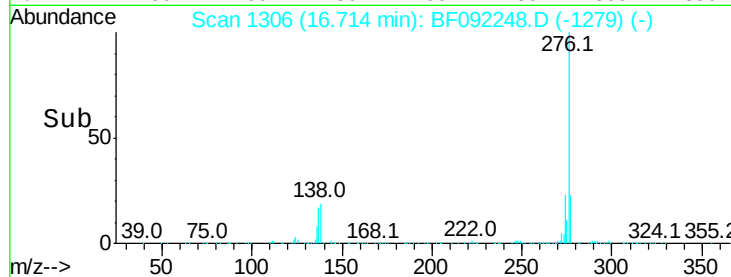
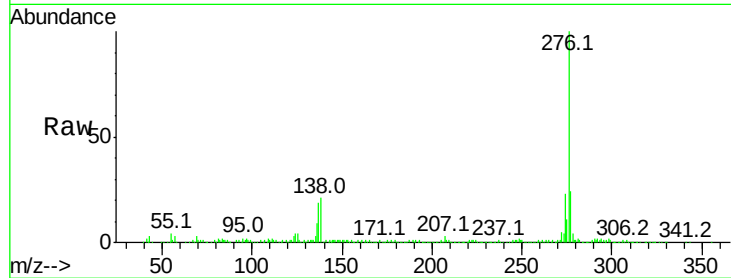
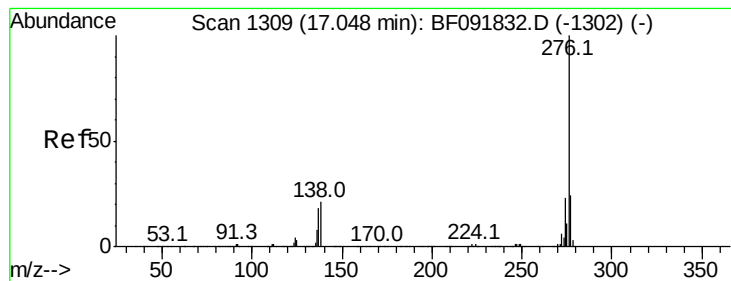
Sohil
1/16/2017 8:38:50 AM



#90
Dibenzo(a,h)anthracene
Concen: 8.62 ng m
RT: 16.34 min Scan# 1273
Delta R.T. 0.00 min
Lab File: BF092248.D
Acq: 13 Jan 2017 14:43

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	26.6	19.8	29.6





#91

Benzo(a,h,i)perylene

Concen: 23.99 ng

RT: 16.71 min Scan# 1306

Delta R.T. 0.01 min

Lab File: BF092248.D

Acq: 13 Jan 2017 14:43

Instrument :

BNA_F

ClientSampleId :

P-17-11117

Tot Ion:	276	Resp:	337749
Ion Ratio	Lower	Upper	
276	100		
277	24.1	19.2	28.8
138	20.8	16.0	24.0

Manual Integrations
APPROVED

Sohil
1/16/2017 8:38:50 AM

