

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103116\
 Data File : BF090944.D
 Acq On : 31 Oct 2016 22:33
 Operator : UM/SJ
 Sample : H5463-03
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-2(0-2)

Manual Integrations
 APPROVED

sohil
 11/1/2016 5:20:02 PM

Quant Time: Nov 01 15:35:12 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 01 11:53:50 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	146061	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	638454	20.00	ng	-0.01
38) Acenaphthene-d10	9.78	164	291236	20.00	ng	-0.01
63) Phenanthrene-d10	11.26	188	429310	20.00	ng	0.00
75) Chrysene-d12	13.91	240	379667	20.00	ng	0.00
86) Perylene-d12	15.31	264	339410	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	1033245	123.68	ng	0.01
7) Phenol-d6	6.40	99	1398938	124.12	ng	0.00
23) Nitrobenzene-d5	7.31	82	919132	94.24	ng	-0.01
41) 2,4,6-Tribromophenol	10.58	330	410540	137.17	ng	0.00
44) 2-Fluorobiphenyl	9.12	172	1731854	104.42	ng	0.00
78) Terphenyl-d14	12.85	244	1193086	79.17	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.41	94	66529	5.36	ng	78
48) Acenaphthylene	9.64	152	177670	7.35	ng	97
49) Dimethylphthalate	9.50	163	310379	15.95	ng	# 97
57) Fluorene	10.33	166	54324	3.09	ng	91
70) Phenanthrene	11.29	178	408693	18.69	ng	97
71) Anthracene	11.34	178	179828	7.81	ng	99
74) Fluoranthene	12.48	202	992021	41.44	ng	91
77) Pyrene	12.70	202	878178	36.55	ng	96
80) Benzo(a)anthracene	13.89	228	668953m	33.20	ng	
82) Chrysene	13.93	228	592133m	29.05	ng	
85) Indeno(1,2,3-cd)pyrene	16.64	276	347993	19.27	ng	# 81
87) Benzo(b)fluoranthene	14.91	252	857672m	37.58	ng	
88) Benzo(k)fluoranthene	14.92	252	418788m	23.22	ng	
89) Benzo(a)pyrene	15.25	252	692228m	35.30	ng	
90) Dibenzo(a,h)anthracene	16.65	278	97139	5.85	ng	# 74
91) Benzo(g,h,i)perylene	17.05	276	281342	17.99	ng	# 70

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

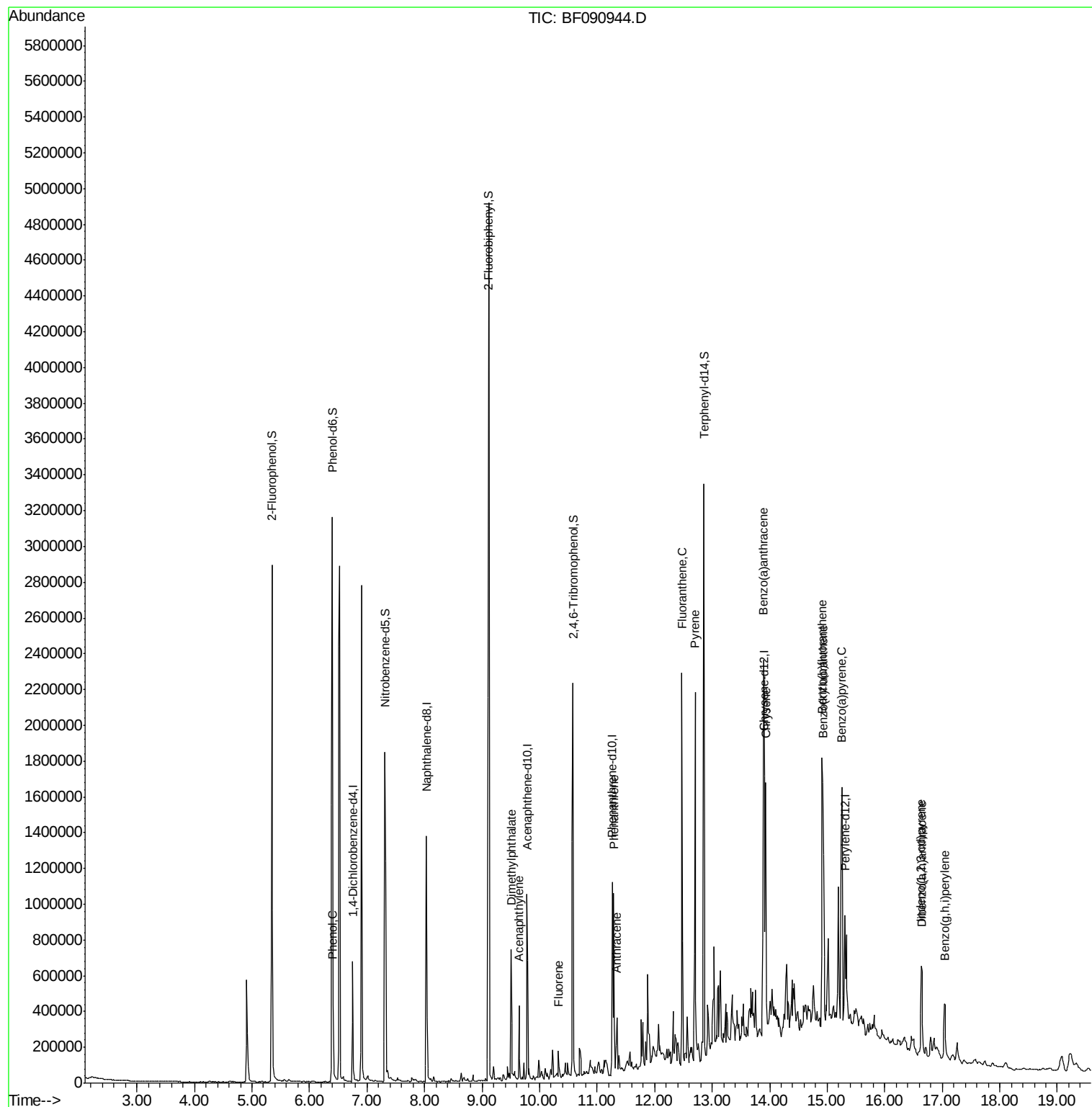
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103116\
Data File : BF090944.D
Acq On : 31 Oct 2016 22:33
Operator : UM/SJ
Sample : H5463-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

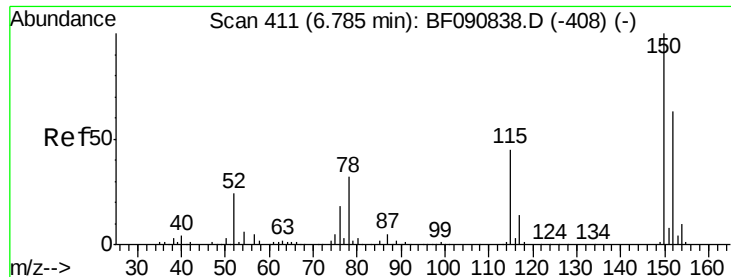
Instrument :
BNA_F
ClientSampleId :
SB-2(0-2)

Manual Integrations
APPROVED

sohil
11/1/2016 5:20:02 PM

Quant Time: Nov 01 15:35:12 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 01 11:53:50 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 408

Delta R.T. -0.00 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

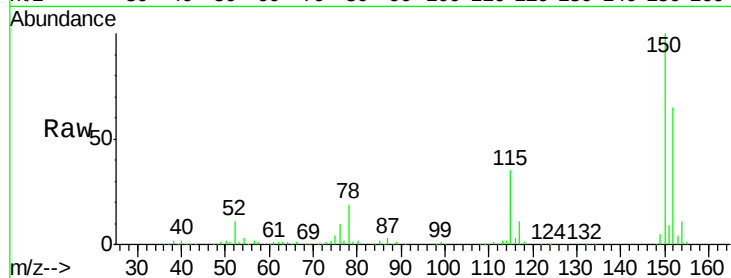
ClientSampleId :

SB-2(0-2)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.7	187.1
115	53.0	39.0	58.4

Manual Integrations
APPROVED

sohil
11/1/2016 5:20:02 PM

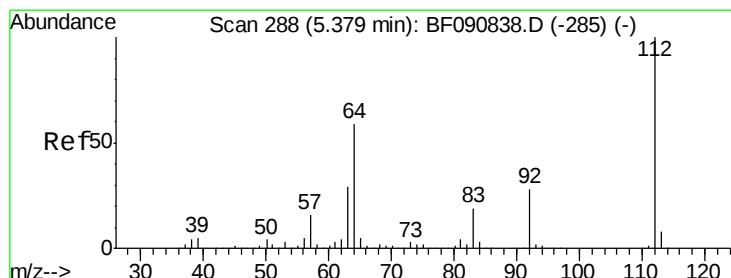
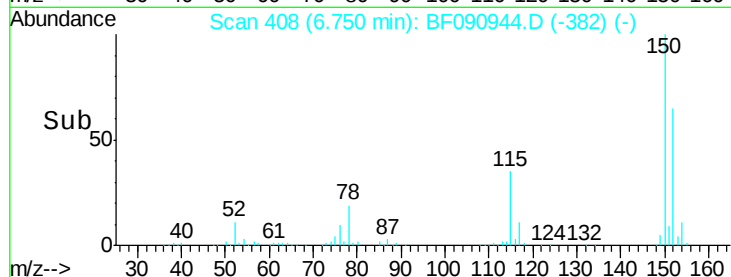
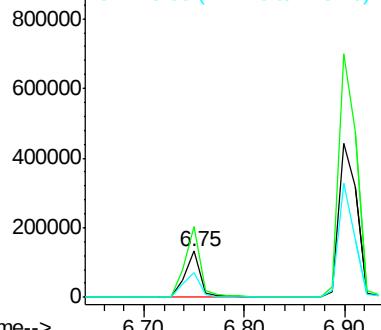


Abundance

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: 123.68 ng

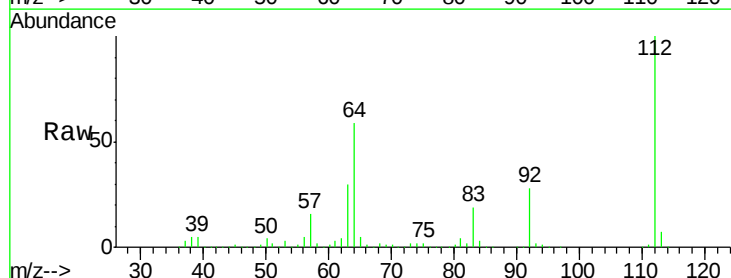
RT: 5.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	39.7	59.5
63	29.8	17.4	26.0

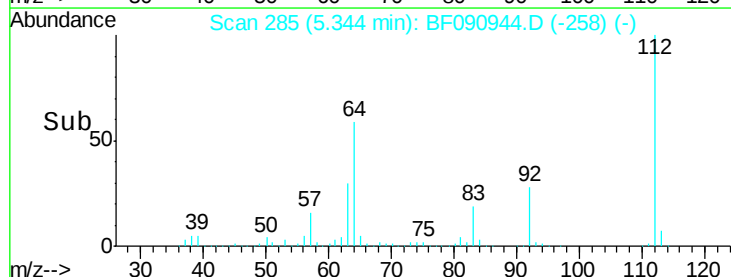
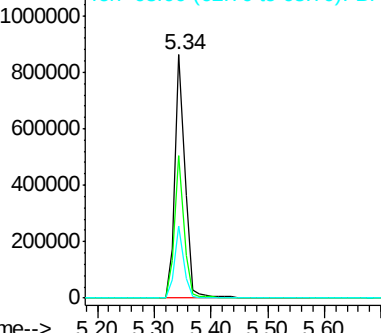


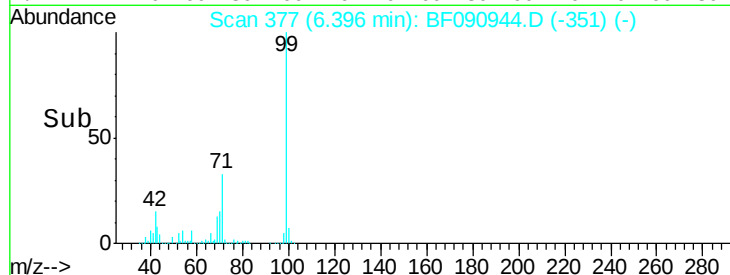
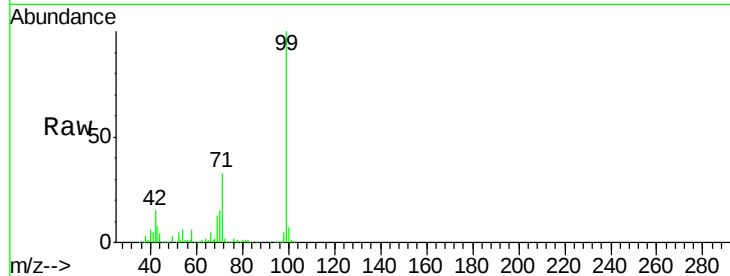
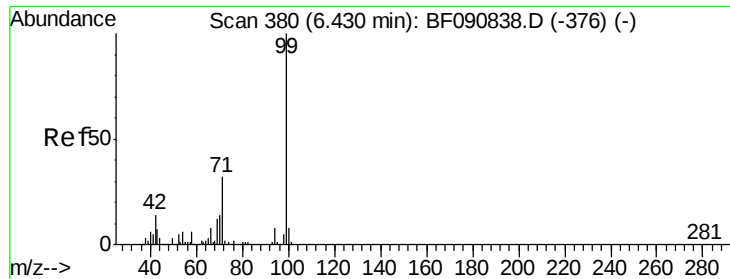
Abundance

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: 124.12 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.00 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Tgt Ion: 99 Resp: 1398938

Ion Ratio Lower Upper

99 100

42 14.9 13.7 20.5

71 33.0 14.2 21.2#

Instrument :

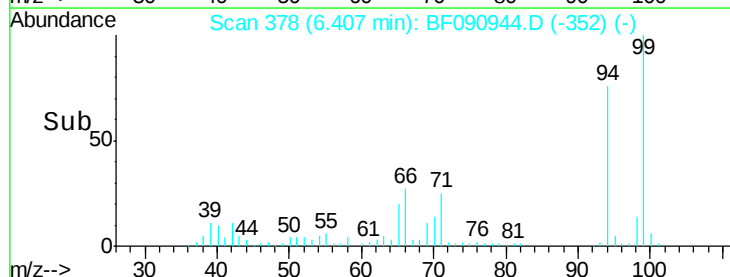
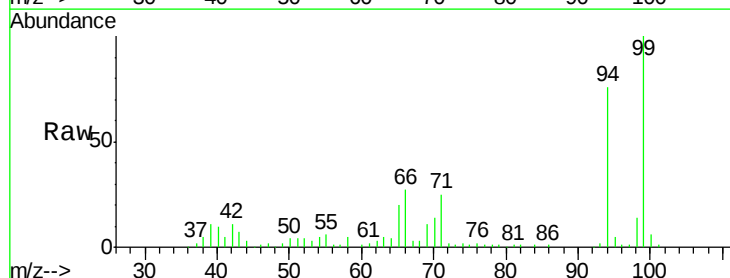
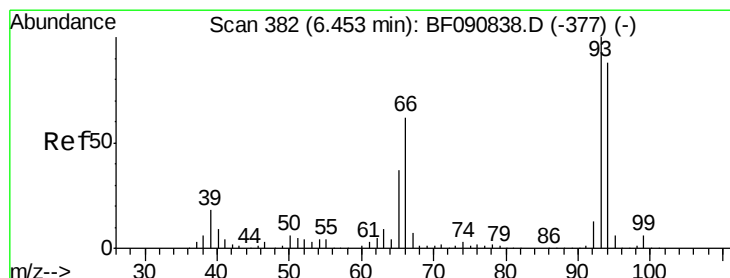
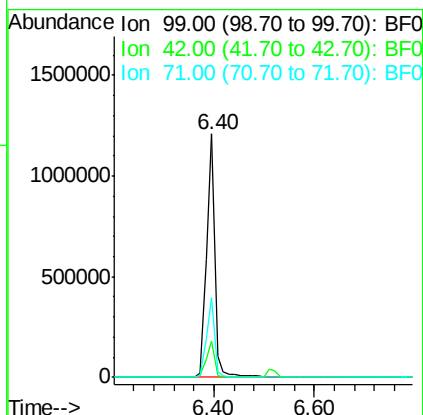
BNA_F

ClientSampleId :

SB-2(0-2)

Manual Integrations
APPROVED

sohil
11/1/2016 5:20:02 PM



#10

Phenol

Concen: 5.36 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.00 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

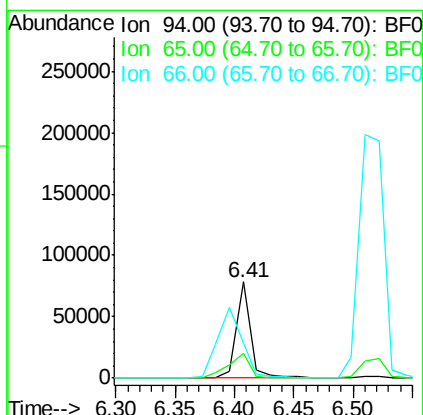
Tgt Ion: 94 Resp: 66529

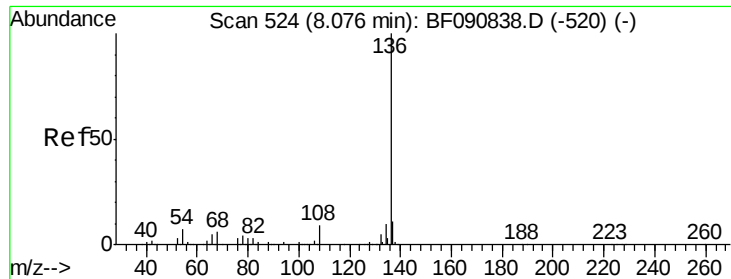
Ion Ratio Lower Upper

94 100

65 25.7 0.7 40.7

66 35.9 0.8 40.8





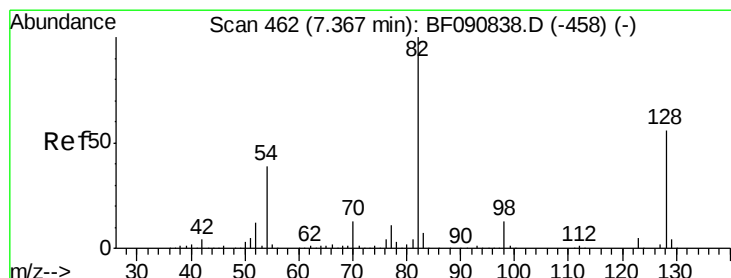
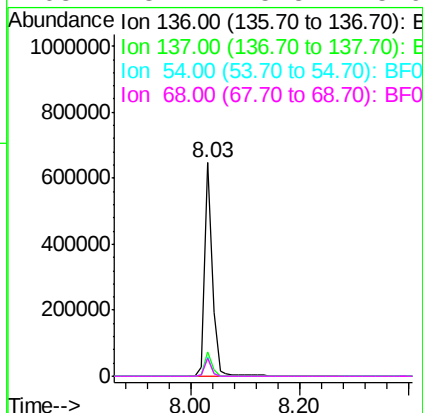
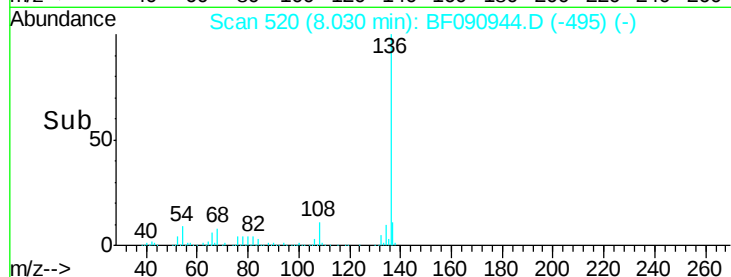
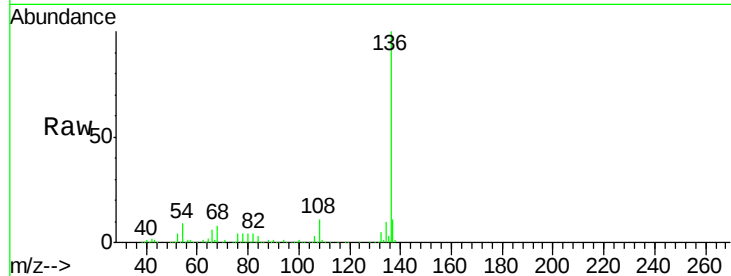
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.03 min Scan# 520
Delta R.T. -0.01 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Instrument :
BNA_F
ClientSampleId :
SB-2(0-2)

Tgt Ion	Ratio	Resp Lower	Resp Upper
136	100		
137	11.4	9.0	13.6
54	9.2	8.2	12.2
68	8.2	5.8	8.6

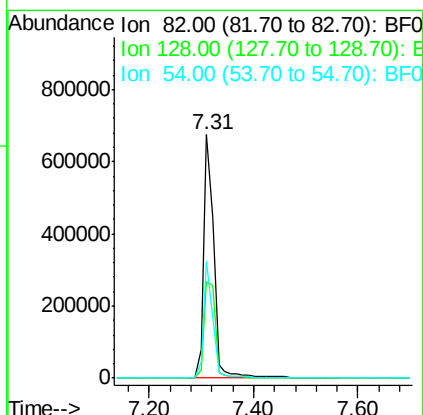
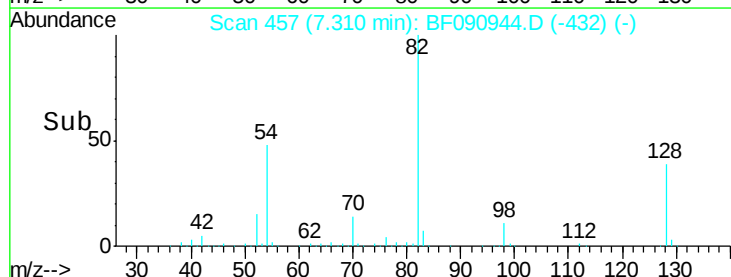
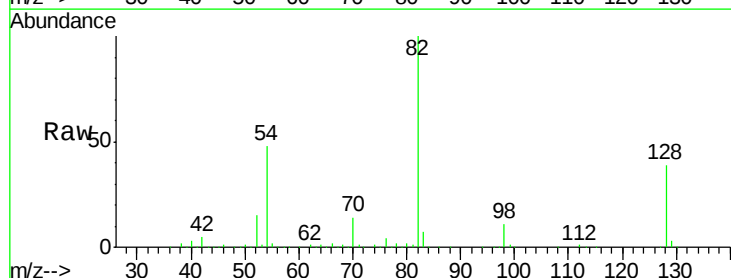
Manual Integrations
APPROVED

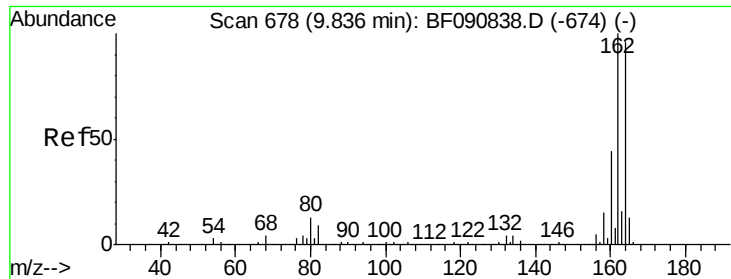
sohil
11/1/2016 5:20:02 PM



#23
Nitrobenzene-d5
Concen: 94.24 ng
RT: 7.31 min Scan# 457
Delta R.T. -0.01 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	39.4	51.0	76.6#
54	47.8	47.5	71.3





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.01 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

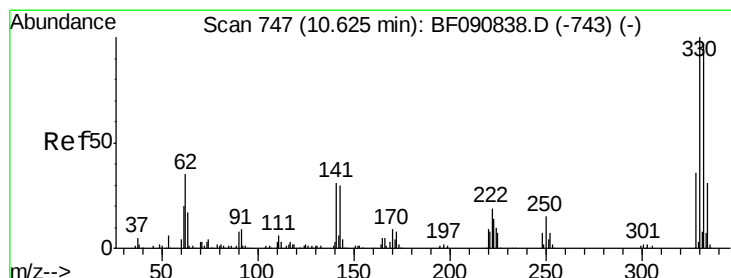
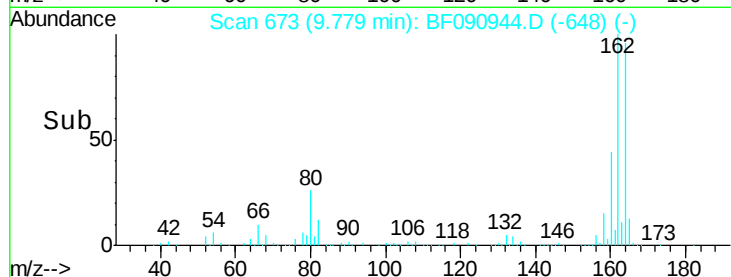
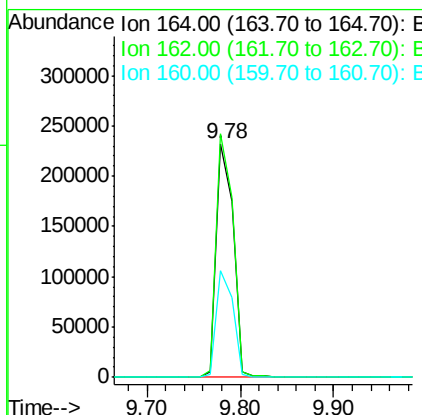
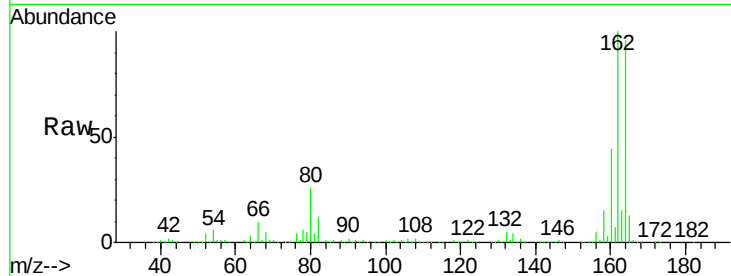
ClientSampleId :

SB-2(0-2)

Tgt Ion:	164	Resp:	291236
Ion Ratio	Lower	Upper	
164	100		
162	104.2	75.2	112.8
160	45.6	31.5	47.3

Manual Integrations
APPROVED

sohil
11/1/2016 5:20:02 PM



#41

2,4,6-Tribromophenol

Concen: 137.17 ng

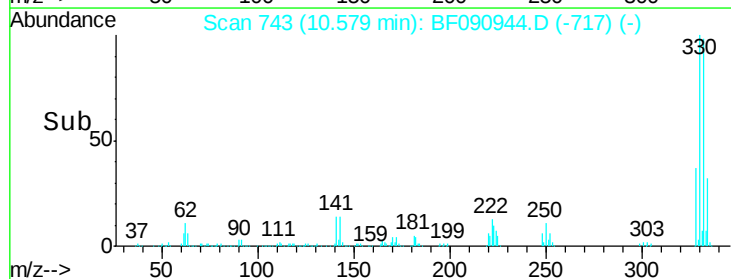
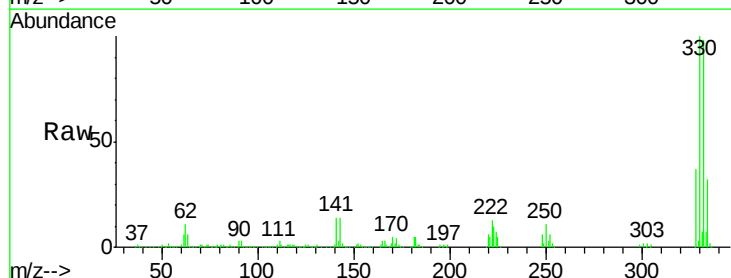
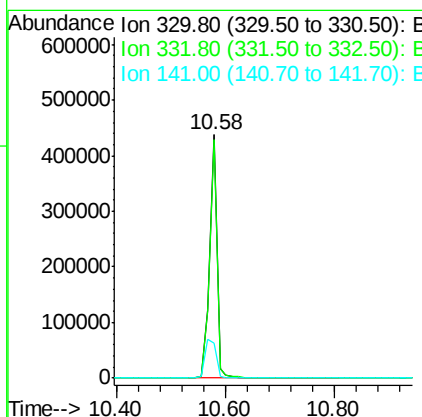
RT: 10.58 min Scan# 743

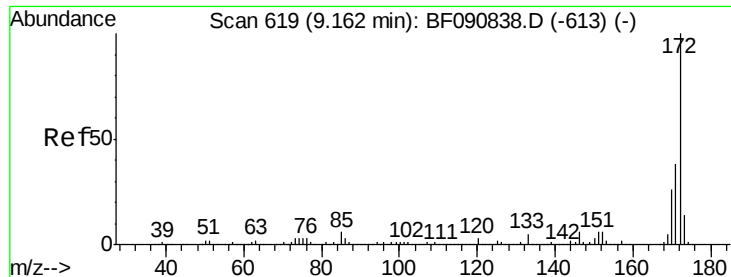
Delta R.T. -0.00 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Tgt Ion:	330	Resp:	410540
Ion Ratio	Lower	Upper	
330	100		
332	97.9	76.6	114.8
141	23.5	29.7	44.5#





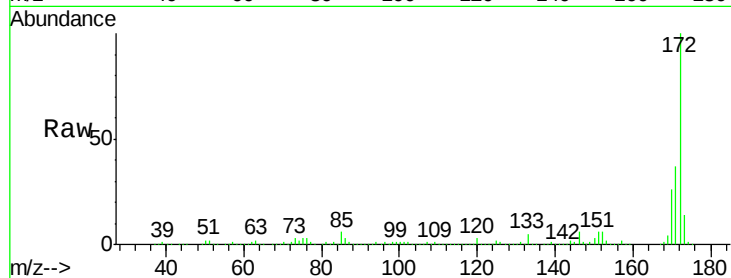
#44
 2-Fluorobiphenyl
 Concen: 104.42 ng
 RT: 9.12 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-2(0-2)

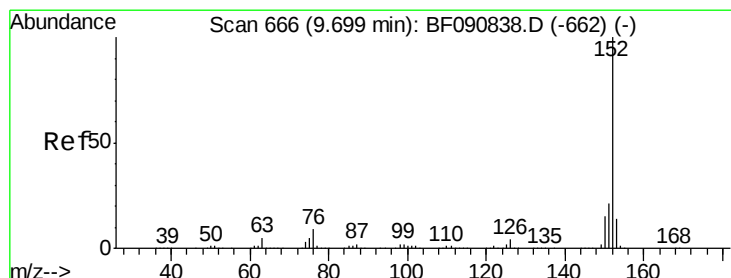
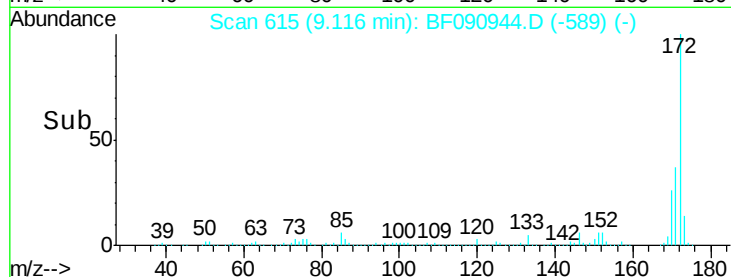
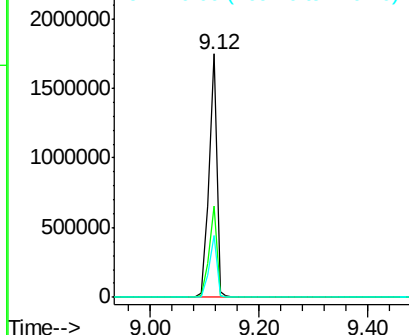
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	26.1	39.1
170	25.7	17.4	26.2

Manual Integrations
 APPROVED

sohil
 11/1/2016 5:20:02 PM

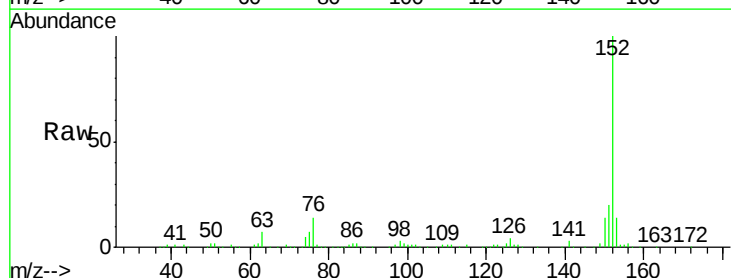


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

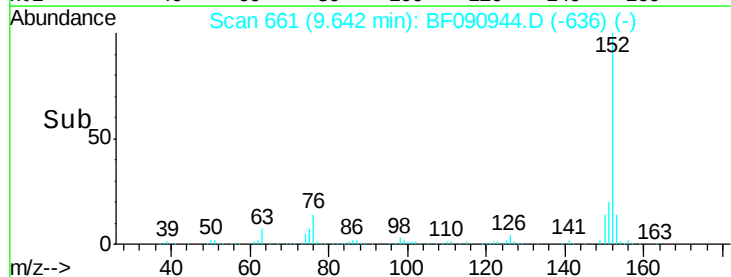
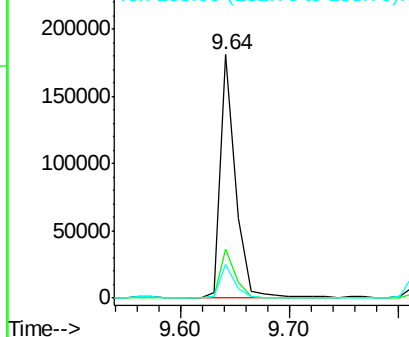


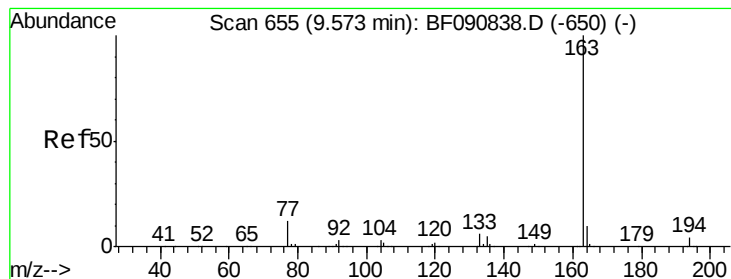
#48
 Acenaphthylene
 Concen: 7.35 ng
 RT: 9.64 min Scan# 661
 Delta R.T. -0.01 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	14.6	22.0
153	13.6	10.3	15.5



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 15.95 ng

RT: 9.50 min Scan# 649

Delta R.T. -0.01 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

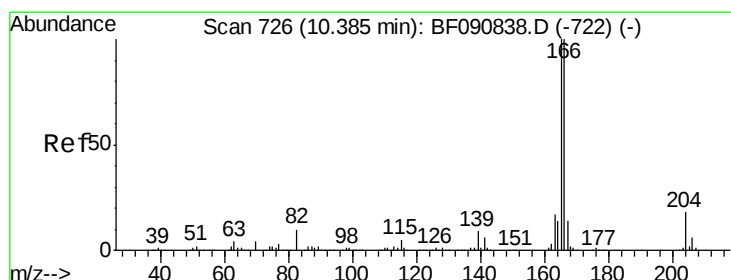
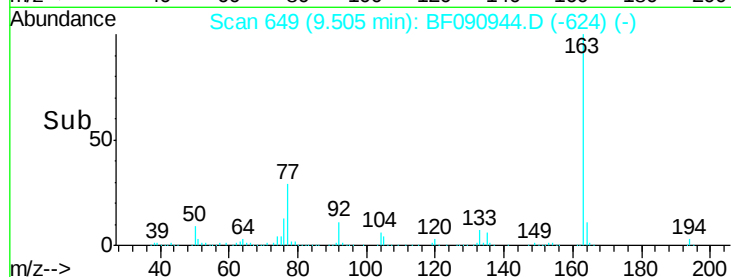
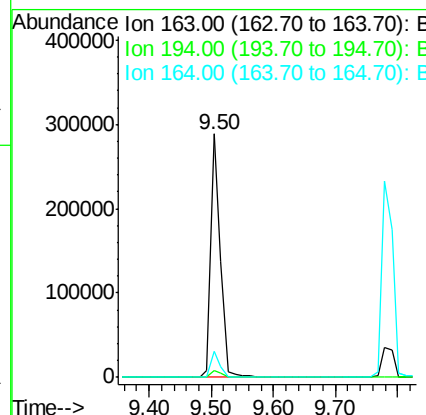
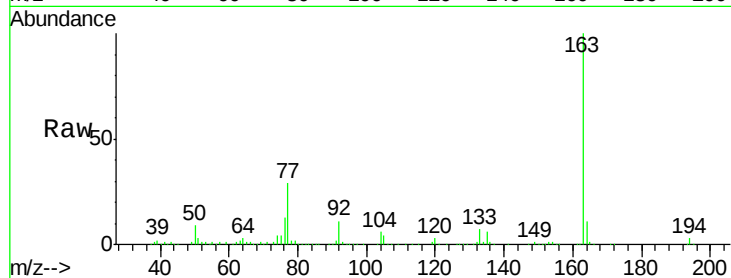
ClientSampleId :

SB-2(0-2)

Tgt Ion:	163	Resp:	310379
Ion Ratio	Lower	Upper	
163	100		
194	2.9	4.4	6.6#
164	10.5	8.3	12.5

Manual Integrations
APPROVED

sohil
11/1/2016 5:20:02 PM



#57

Fluorene

Concen: 3.09 ng

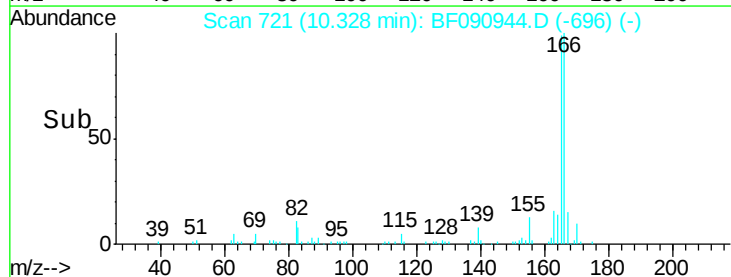
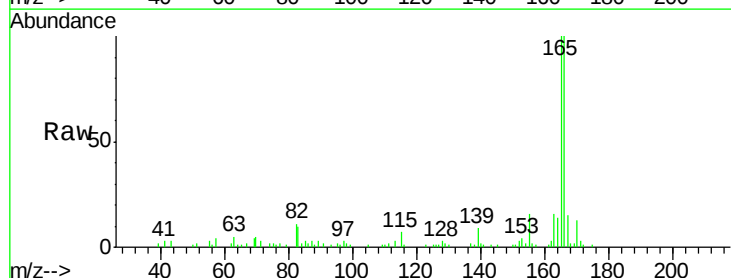
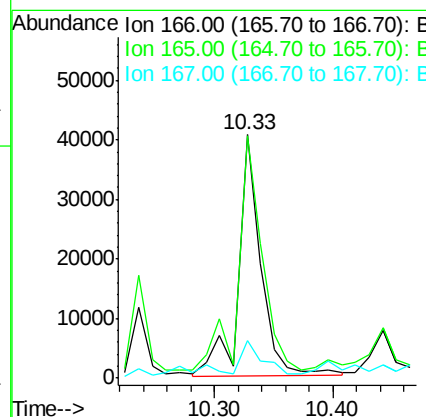
RT: 10.33 min Scan# 721

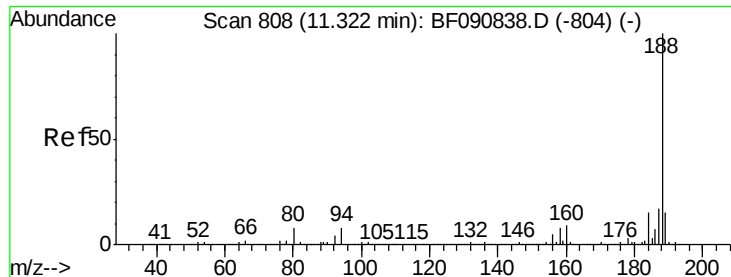
Delta R.T. -0.01 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Tgt Ion:	166	Resp:	54324
Ion Ratio	Lower	Upper	
166	100		
165	99.6	72.6	109.0
167	15.5	10.6	16.0





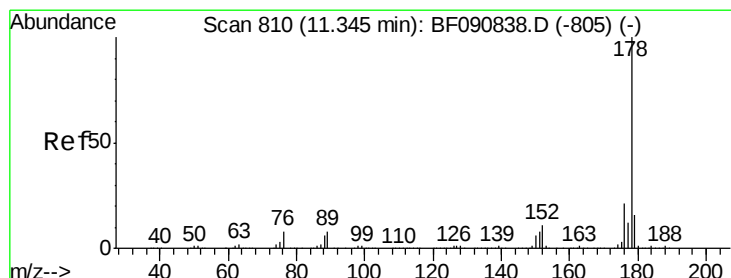
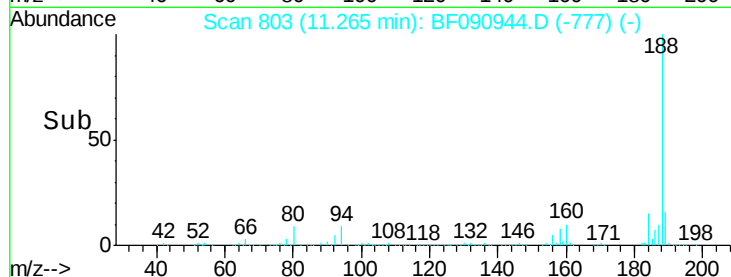
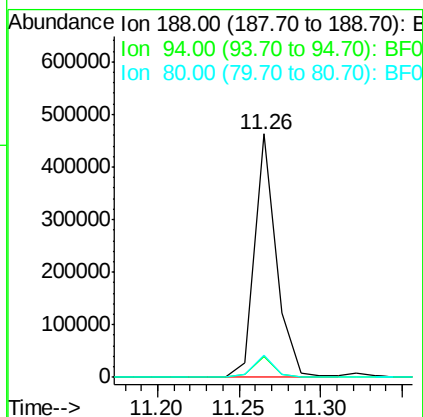
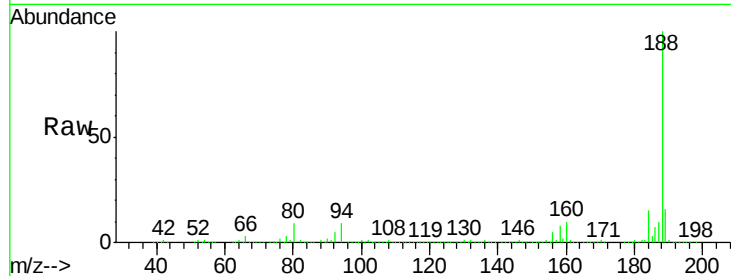
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.26 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Instrument :
BNA_F
ClientSampleId :
SB-2(0-2)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.7	11.1	16.7#
80	9.2	11.0	16.4#

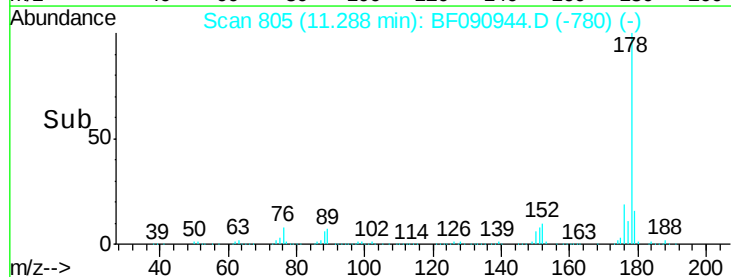
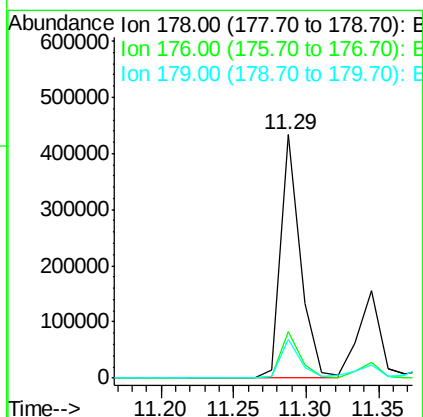
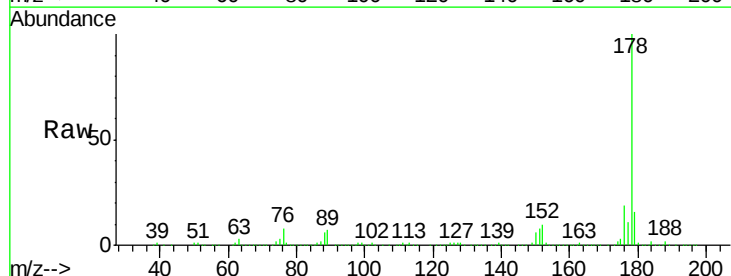
Manual Integrations
APPROVED

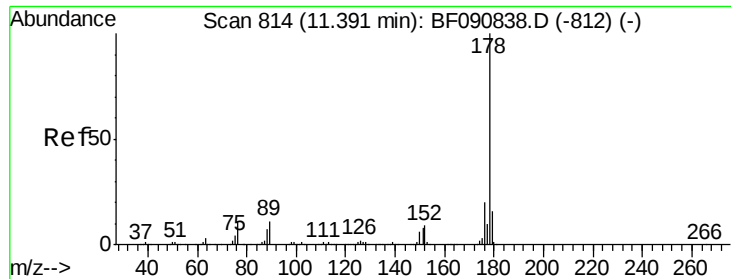
sohil
11/1/2016 5:20:02 PM



#70
Phenanthrene
Concen: 18.69 ng
RT: 11.29 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.0	13.8	20.8
179	15.8	12.2	18.2





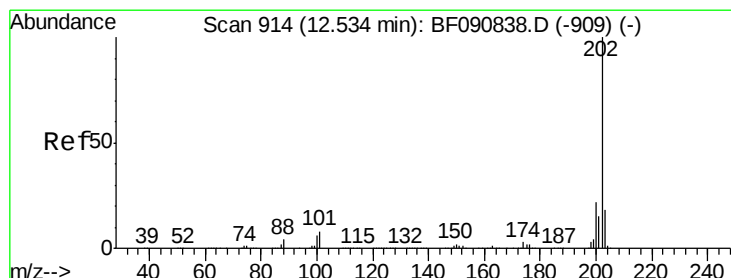
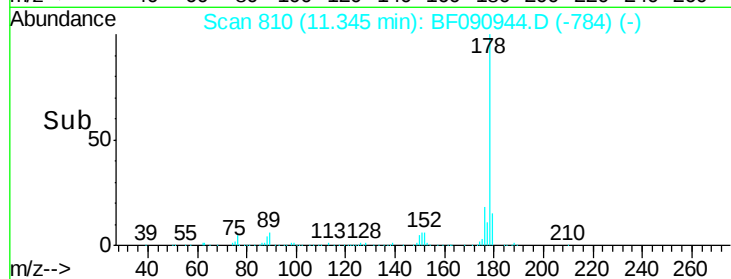
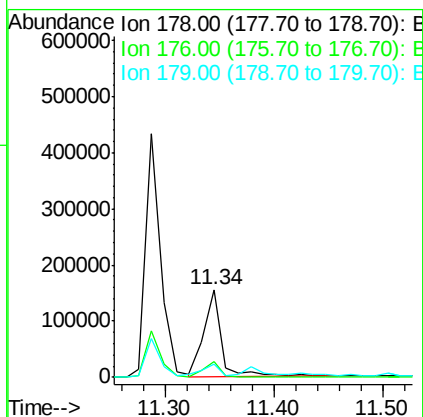
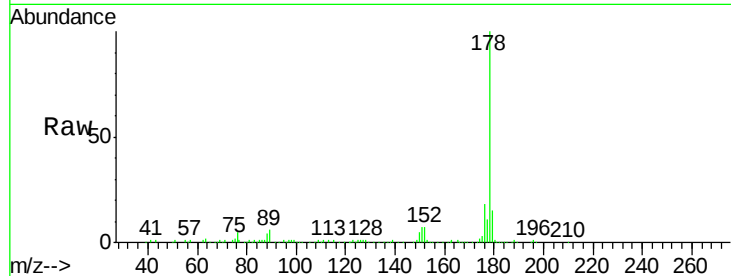
#71
 Anthracene
 Concen: 7.81 ng
 RT: 11.34 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Instrument :
 BNA_F
 ClientSampled :
 SB-2(0-2)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.1	21.1
179	15.4	12.2	18.2

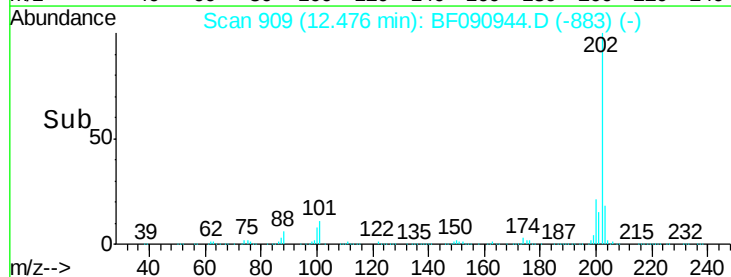
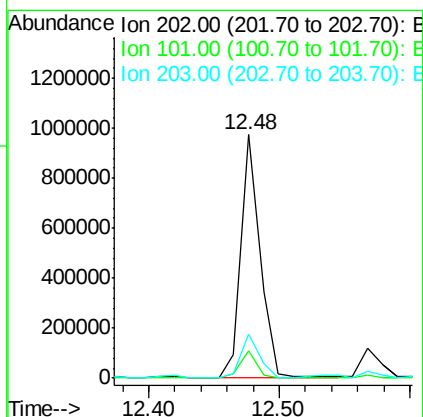
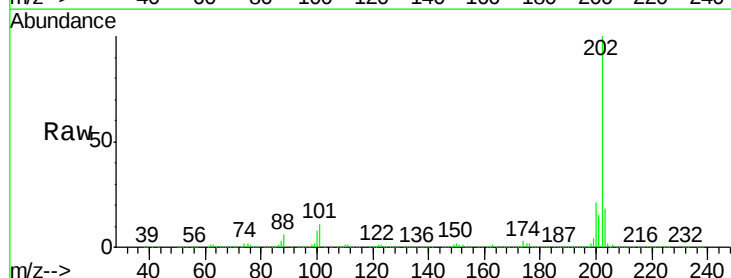
Manual Integrations
 APPROVED

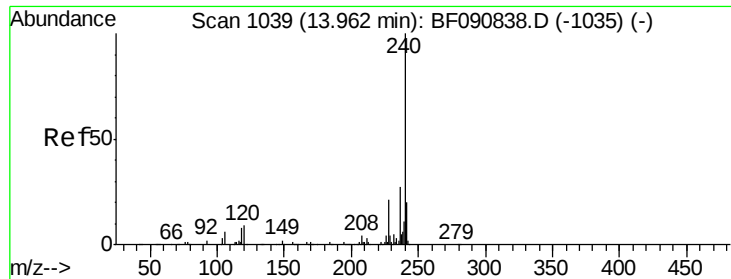
sohil
 11/1/2016 5:20:02 PM



#74
 Fluoranthene
 Concen: 41.44 ng
 RT: 12.48 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	38.3
203	18.2	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.00 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

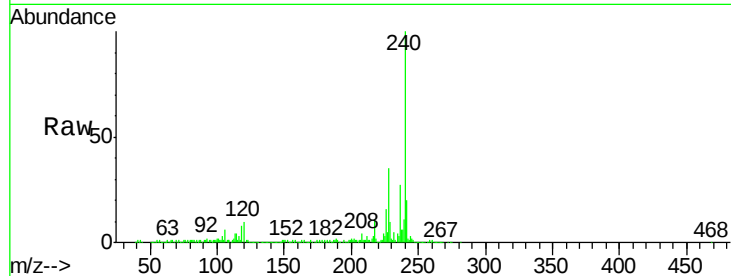
ClientSampleId :

SB-2(0-2)

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	379667		
120	9.6	16.2	24.2#	
236	26.8	18.4	27.6	

Manual Integrations
APPROVED

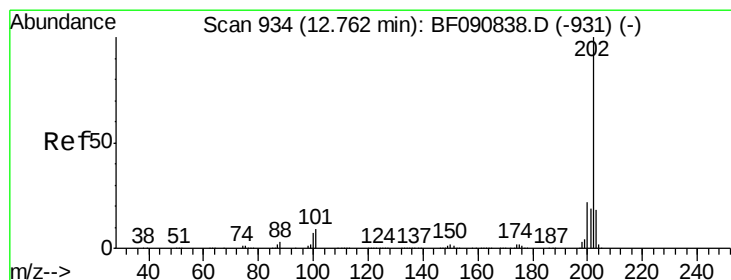
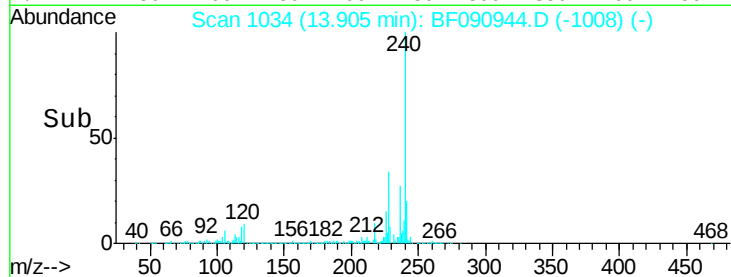
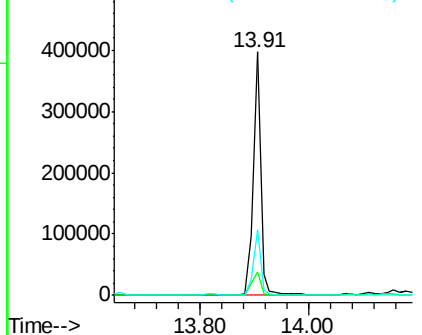
sohil
11/1/2016 5:20:02 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 36.55 ng

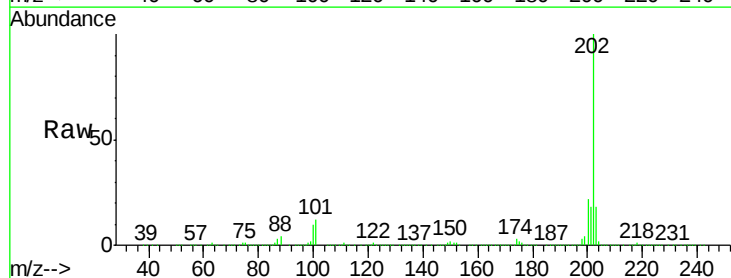
RT: 12.70 min Scan# 929

Delta R.T. -0.00 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

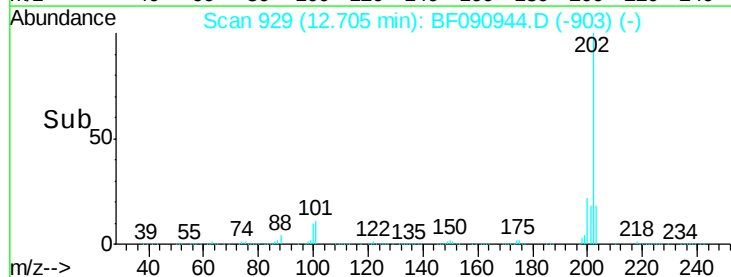
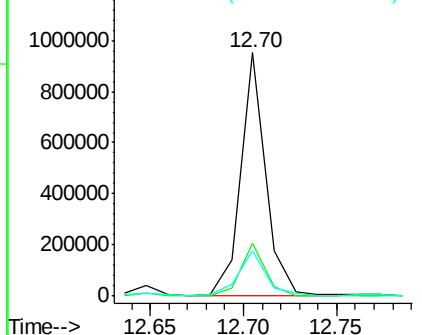
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	878178		
200	21.6	15.0	22.4	
203	18.5	14.1	21.1	

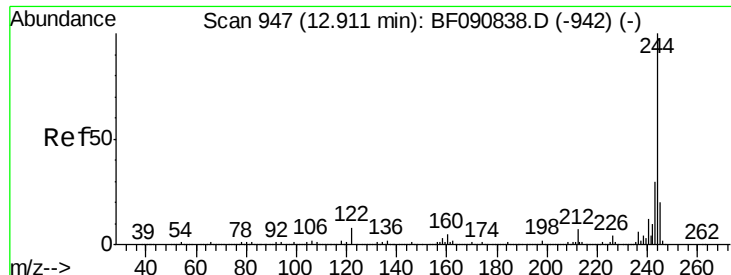


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





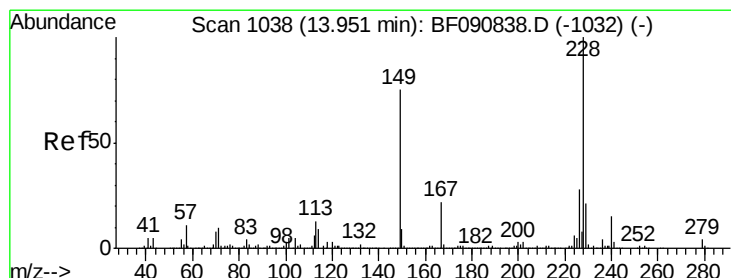
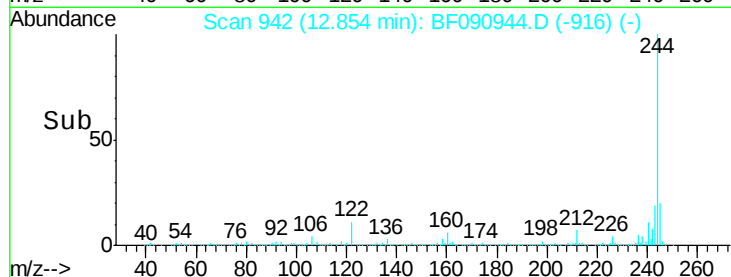
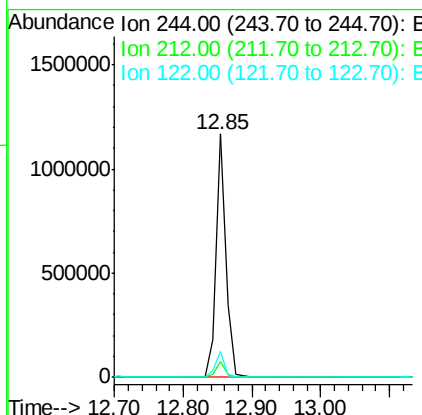
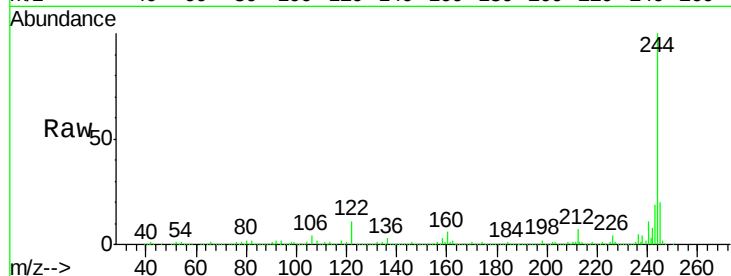
#78
 Terphenyl-d14
 Concen: 79.17 ng
 RT: 12.85 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-2(0-2)

Tgt Ion:244 Resp: 1193086
 Ion Ratio Lower Upper
 244 100
 212 6.6 4.3 6.5#
 122 10.7 17.4 26.2#

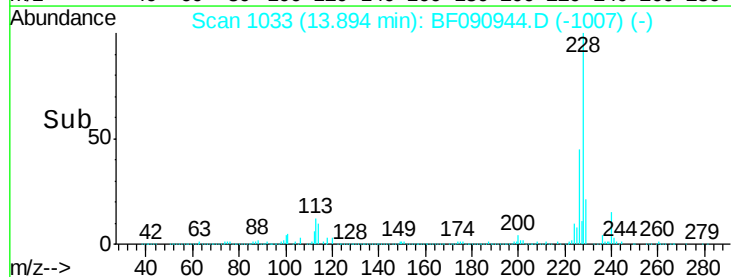
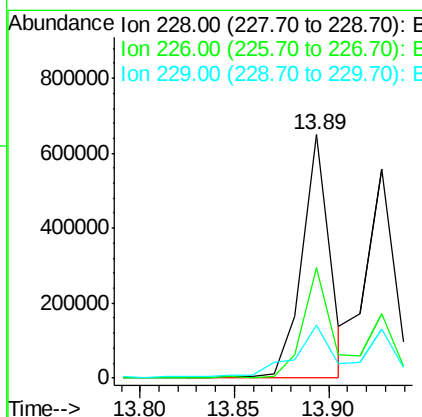
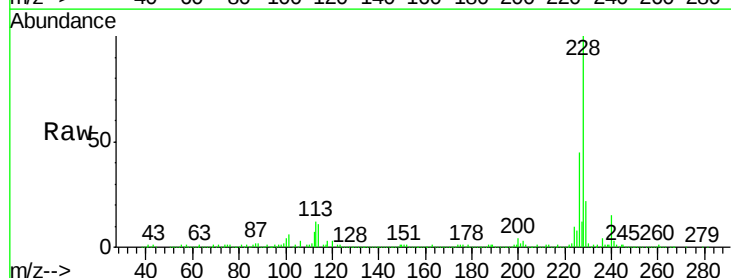
Manual Integrations
 APPROVED

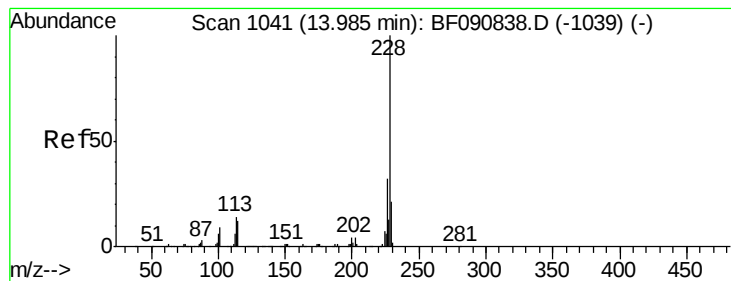
sohil
 11/1/2016 5:20:02 PM



#80
 Benzo(a)anthracene
 Concen: 33.20 ng m
 RT: 13.89 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Tgt Ion:228 Resp: 668953
 Ion Ratio Lower Upper
 228 100
 226 45.3 20.0 30.0#
 229 21.7 15.4 23.2





#82

Chrysene

Concen: 29.05 ng m

RT: 13.93 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

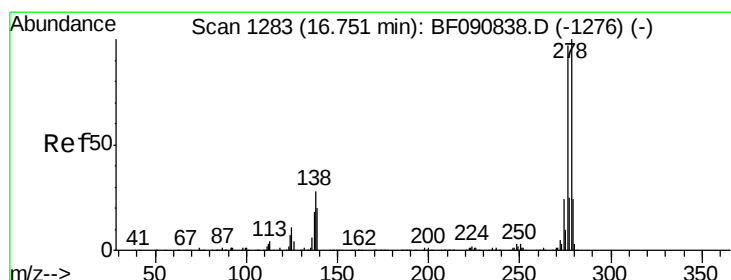
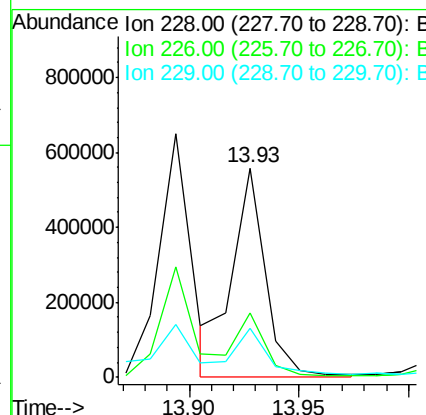
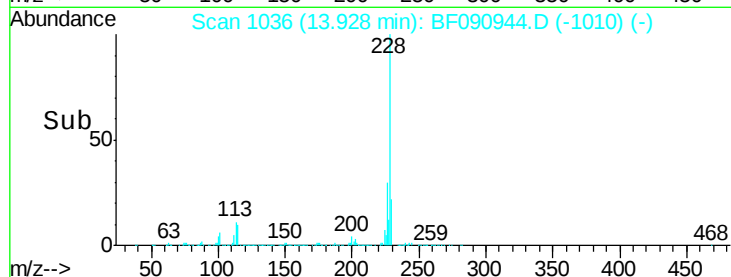
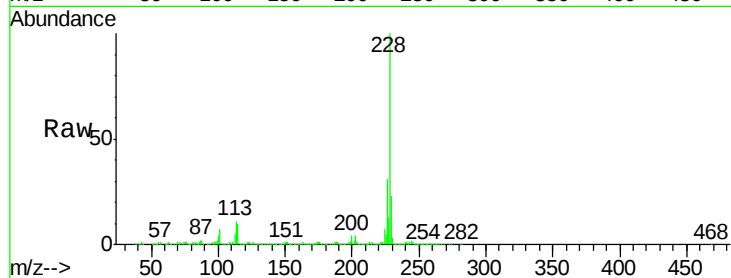
ClientSampled :

SB-2(0-2)

Tgt Ion:	228	Resp:	592133
Ion Ratio	Lower	Upper	
228	100		
226	30.6	21.0	31.4
229	23.4	15.6	23.4#

Manual Integrations
APPROVED

sohil
11/1/2016 5:20:02 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 19.27 ng

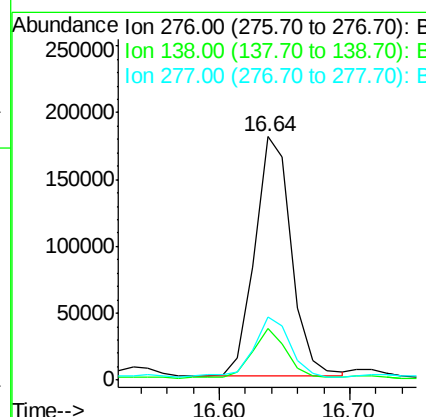
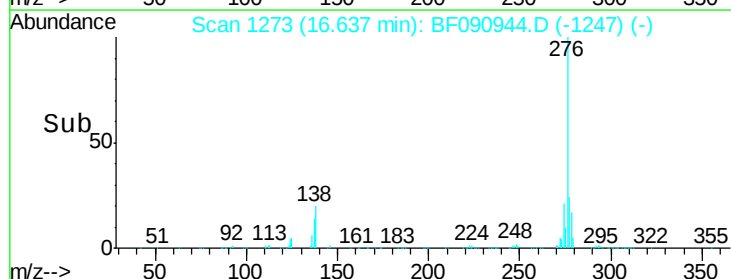
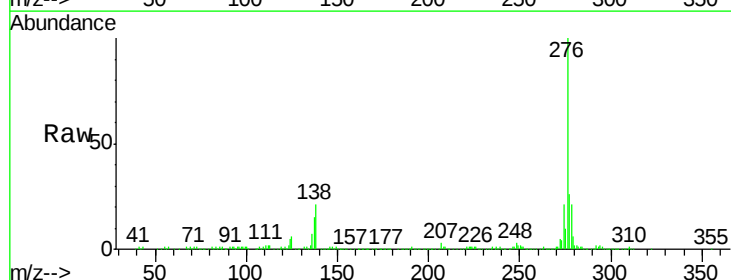
RT: 16.64 min Scan# 1273

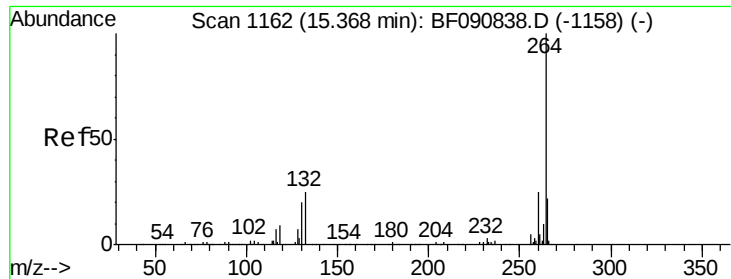
Delta R.T. -0.00 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Tgt Ion:	276	Resp:	347993
Ion Ratio	Lower	Upper	
276	100		
138	19.1	25.7	38.5#
277	24.8	15.6	23.4#





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.31 min Scan# 1157

Delta R.T. 0.01 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

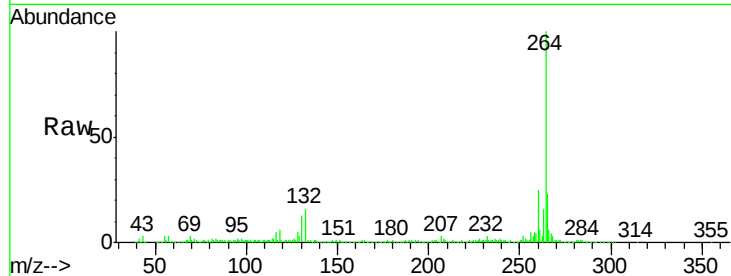
ClientSampleId :

SB-2(0-2)

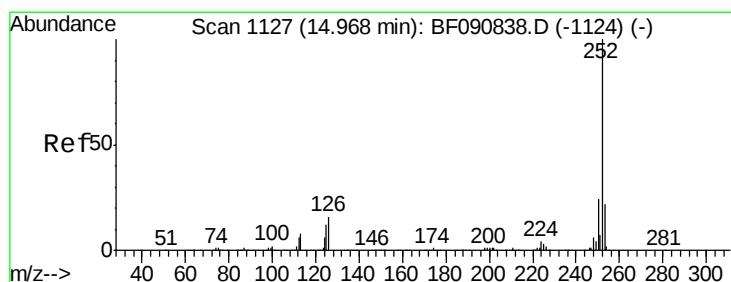
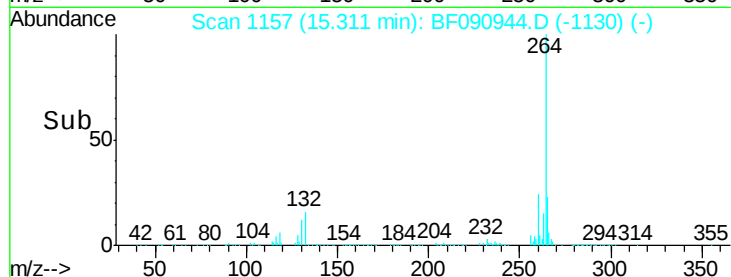
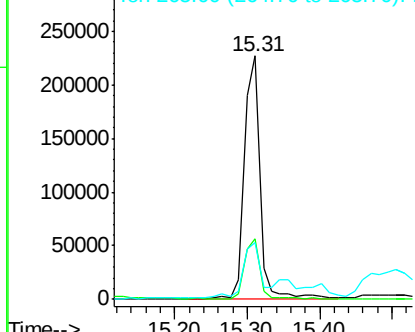
Tgt Ion:	264	Resp:	339410
Ion Ratio	Lower	Upper	
264	100		
260	24.8	16.7	25.1
265	23.3	17.2	25.8

Manual Integrations
APPROVED

sohil
11/1/2016 5:20:02 PM



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 37.58 ng m

RT: 14.91 min Scan# 1122

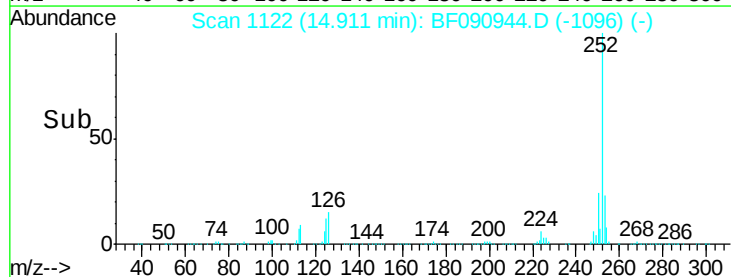
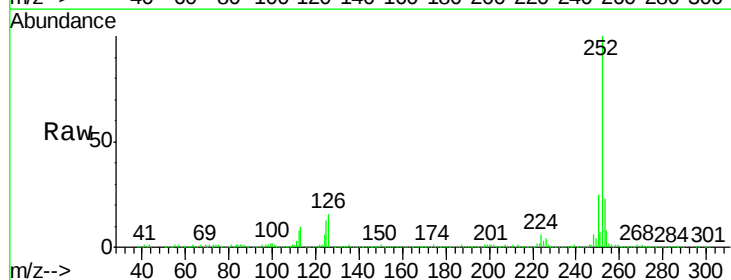
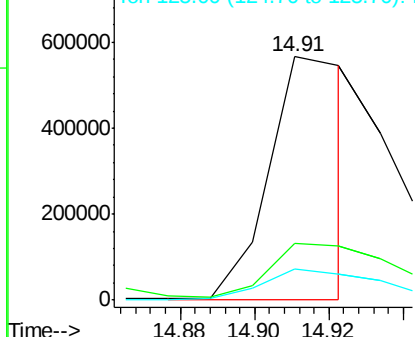
Delta R.T. -0.00 min

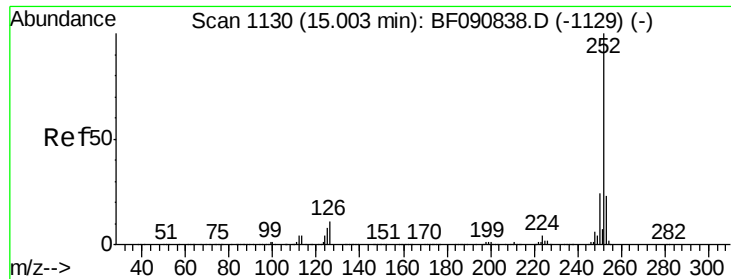
Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Tgt Ion:	252	Resp:	857672
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.5	26.3
125	12.8	17.1	25.7#

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





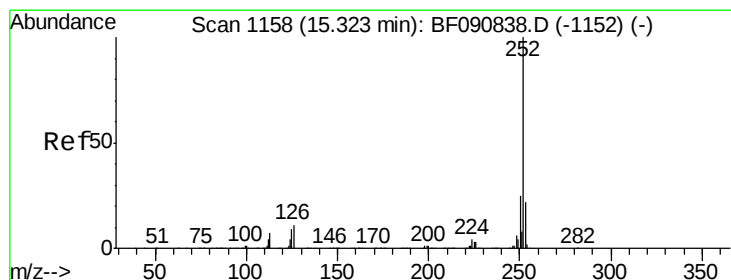
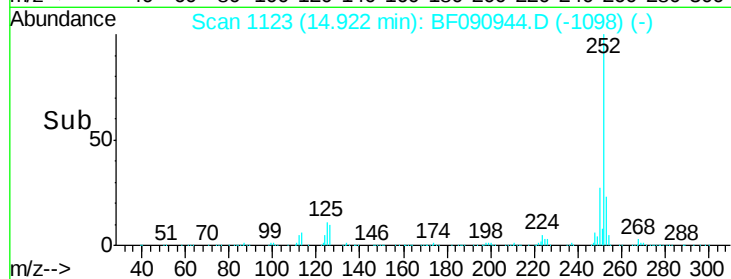
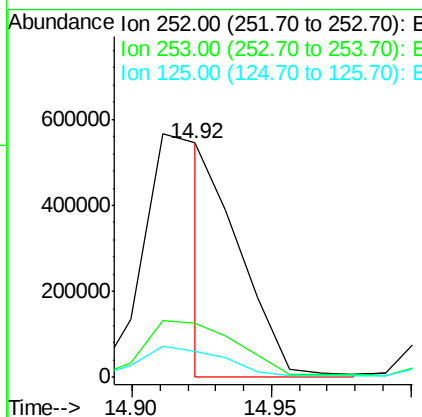
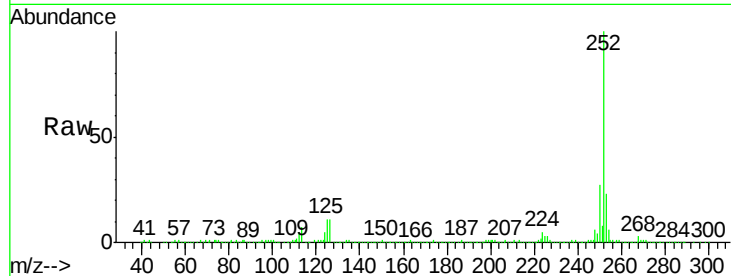
#88
Benzo(k)fluoranthene
Concen: 23.22 ng m
RT: 14.92 min Scan# 1123
Delta R.T. -0.01 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Instrument :
BNA_F
ClientSampleId :
SB-2(0-2)

Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		418788		
253	23.3	17.0	25.4		
125	11.3	16.0	24.0		

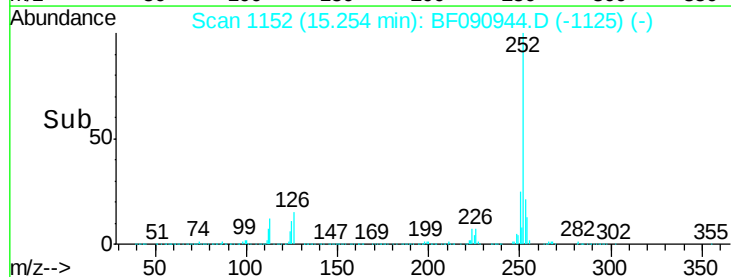
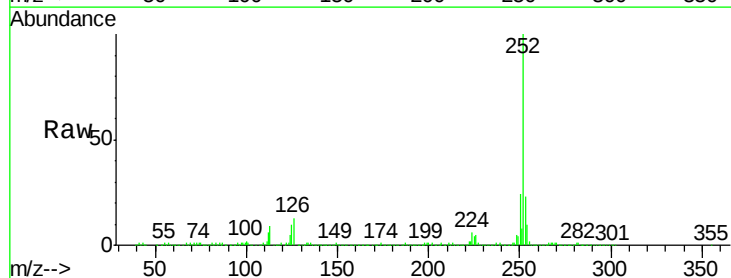
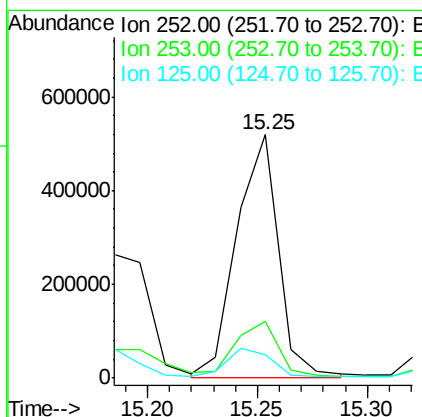
Manual Integrations
APPROVED

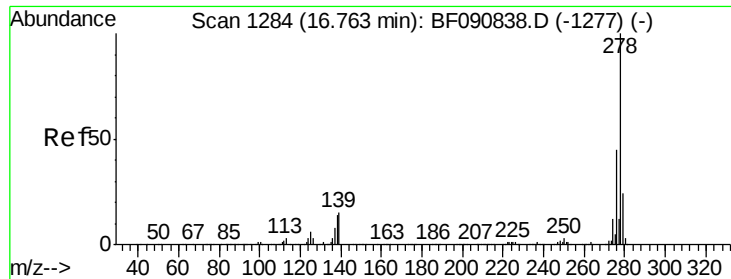
sohil
11/1/2016 5:20:02 PM



#89
Benzo(a)pyrene
Concen: 35.30 ng m
RT: 15.25 min Scan# 1152
Delta R.T. 0.01 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		692228		
253	23.4	17.2	25.8		
125	9.8	18.0	27.0		





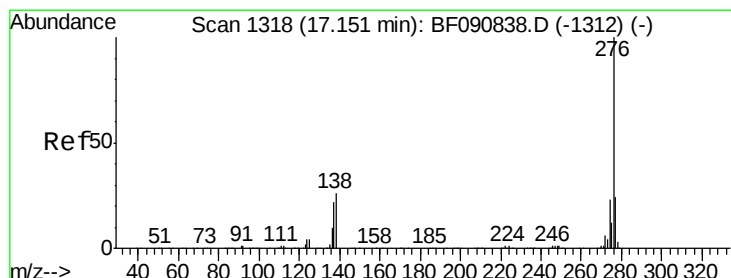
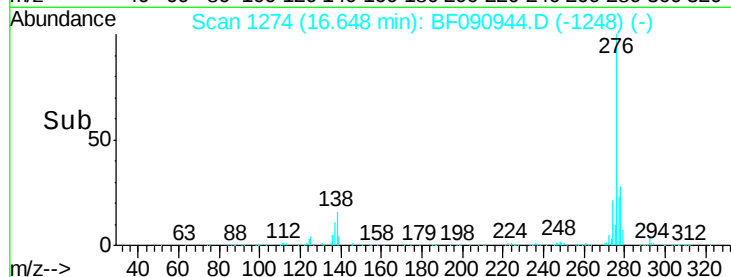
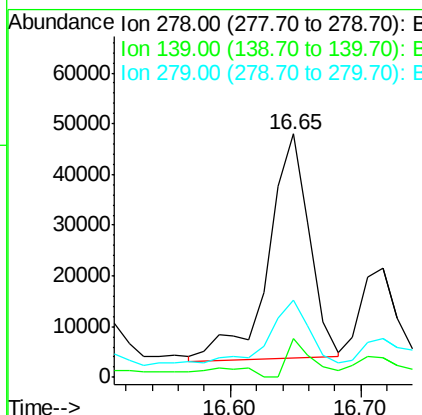
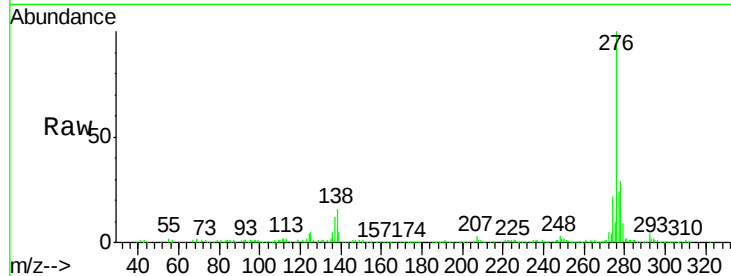
#90
Dibenzo(a,h)anthracene
Concen: 5.85 ng
RT: 16.65 min Scan# 1274
Delta R.T. -0.00 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Instrument :
BNA_F
ClientSampleId :
SB-2(0-2)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.8	26.3	39.5#
279	31.8	18.2	27.4#

Manual Integrations
APPROVED

sohil
11/1/2016 5:20:02 PM



#91
Benzo(g,h,i)perylene
Concen: 17.99 ng
RT: 17.05 min Scan# 1309
Delta R.T. 0.01 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.8	26.6
138	15.7	34.6	51.8#

