

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE040116\
 Data File : BE091584.D
 Acq On : 31 Mar 2016 14:43
 Operator : UM/SJ
 Sample : H1824-06
 Misc : LOQ WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER2016-02

Manual Integrations
 APPROVED

Sohil
 4/1/2016 9:39:14 PM

Quant Time: Apr 01 00:59:13 2016

Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 30 18:45:59 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	33198	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	156161	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	94530	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	233909	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	342360	5.00	ng	-0.02
28) Perylene-d12	23.76	264	278005	5.00	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	62992	7.25	ng	-0.01
5) Phenol-d6	6.97	99	91382	7.77	ng	-0.02
7) Nitrobenzene-d5	8.96	82	41666	3.97	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	31038	7.41	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	115653	4.30	ng	-0.02
24) Terphenyl-d14	19.78	244	187224	4.31	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.35	88	14598	3.73	ng	91
3) n-Nitrosodimethylamine	3.65	42	22305	3.70	ng	99
8) Naphthalene	10.63	128	126479	3.92	ng	96
9) 2-Methylnaphthalene	12.24	142	90452	4.29	ng	# 87
13) Acenaphthylene	14.13	152	158629	4.16	ng	100
14) Acenaphthene	14.49	154	103165	4.41	ng	95
15) Fluorene	15.47	166	129434	4.30	ng	100
17) Hexachlorobenzene	16.46	284	38148m	4.43	ng	
18) Pentachlorophenol	16.81	266	45716	9.46	ng	# 83
19) Phenanthrene	17.19	178	238597	4.36	ng	99
20) Anthracene	17.29	178	227274	4.50	ng	99
21) Fluoranthene	19.21	202	289384	4.48	ng	99
23) Pyrene	19.57	202	299742	4.29	ng	99
25) Benzo(a)anthracene	21.29	228	346417m	4.31	ng	
26) Chrysene	21.36	228	282627m	4.11	ng	
27) Indeno(1,2,3-cd)pyrene	26.33	276	340418	4.30	ng	99
29) Benzo(b)fluoranthene	23.01	252	314066	4.66	ng	98
30) Benzo(k)fluoranthene	23.06	252	300320	4.60	ng	94
31) Benzo(a)pyrene	23.65	252	295502	4.79	ng	# 94
32) Dibenzo(a,h)anthracene	26.35	278	284179	4.70	ng	98
33) Benzo(g,h,i)perylene	27.11	276	285011	4.61	ng	99

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

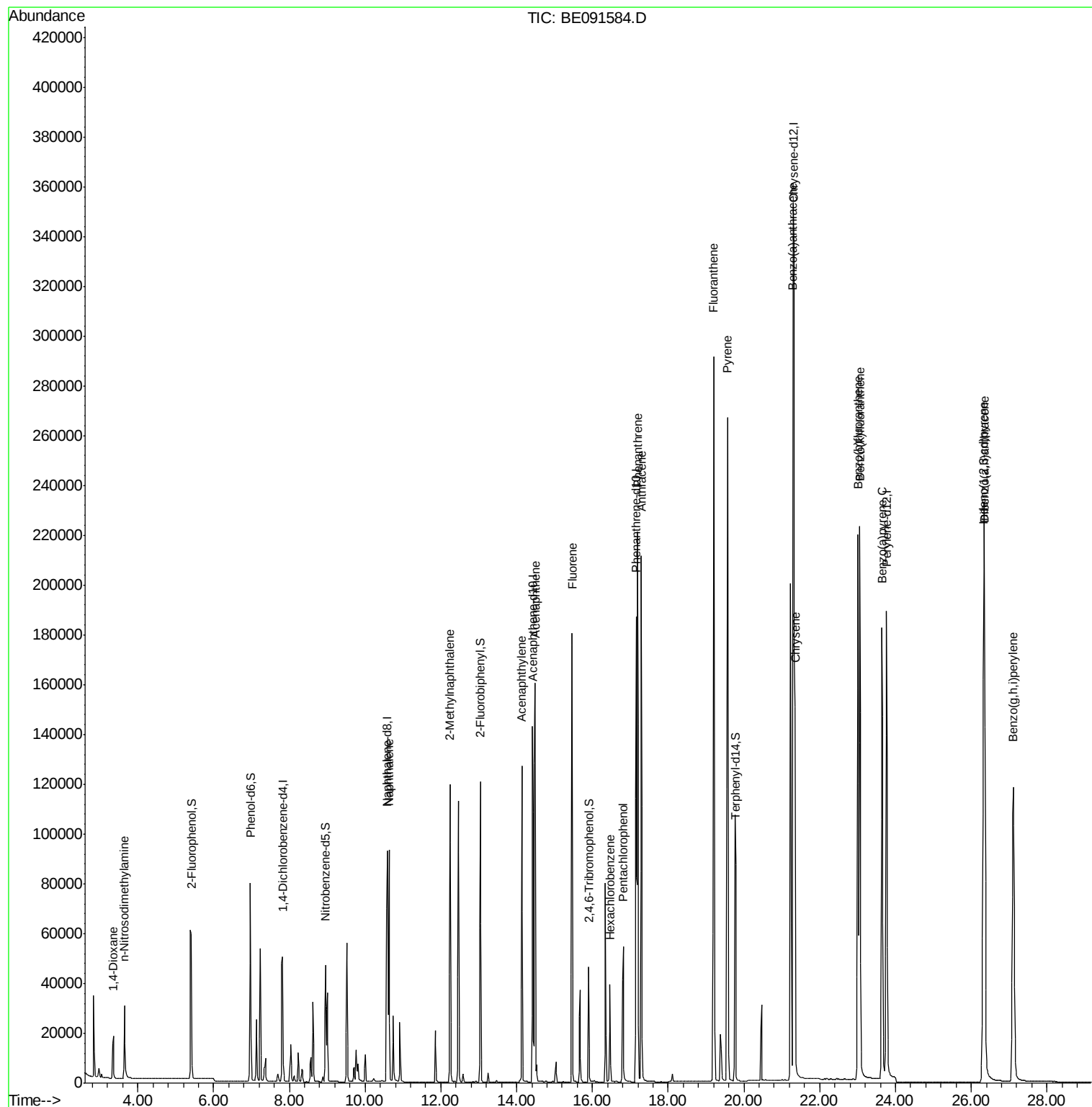
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE040116\
Data File : BE091584.D
Acq On : 31 Mar 2016 14:43
Operator : UM/SJ
Sample : H1824-06
Misc : LOQ WATER
ALS Vial : 8 Sample Multiplier: 1

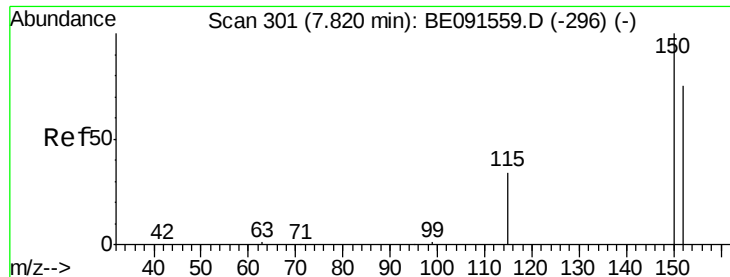
Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM

Quant Time: Apr 01 00:59:13 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 30 18:45:59 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. -0.00 min

Lab File: BE091584.D

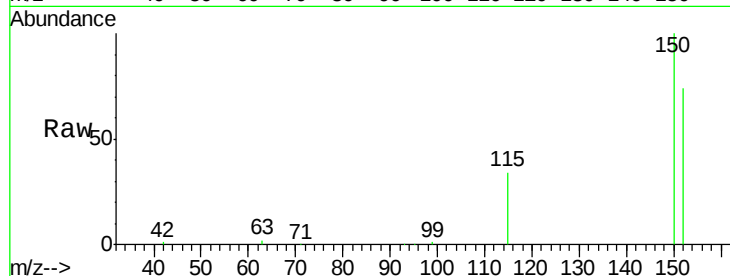
Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02



Tgt Ion: 152 Resp: 33198

Ion Ratio Lower Upper

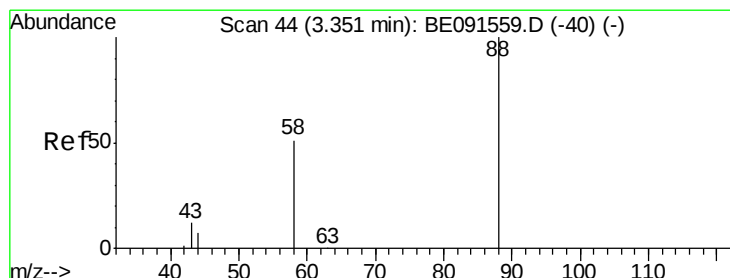
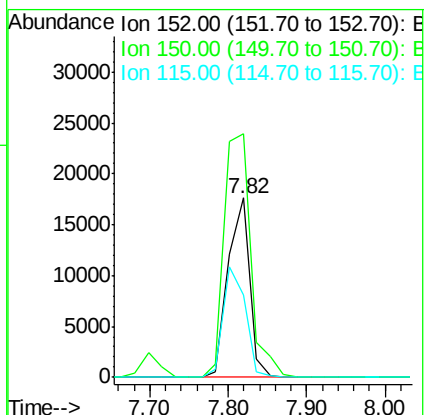
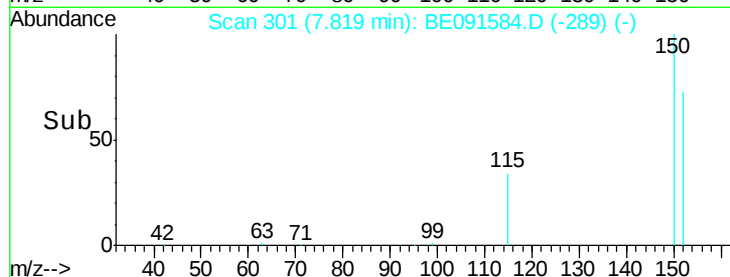
152 100

150 136.0 122.2 183.2

115 46.1 45.9 68.9

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM



#2

1,4-Dioxane

Concen: 3.73 ng

RT: 3.35 min Scan# 44

Delta R.T. -0.01 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

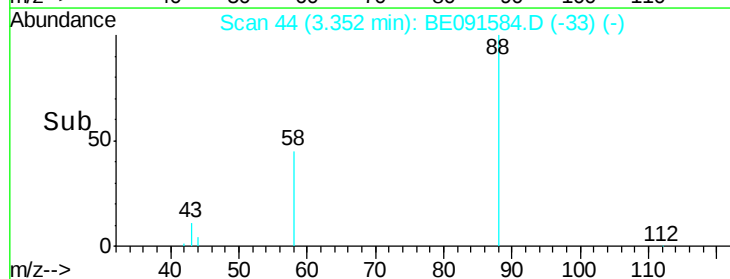
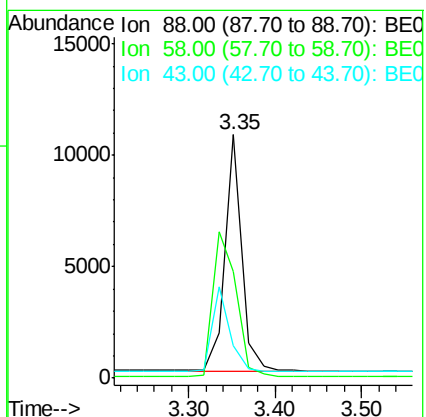
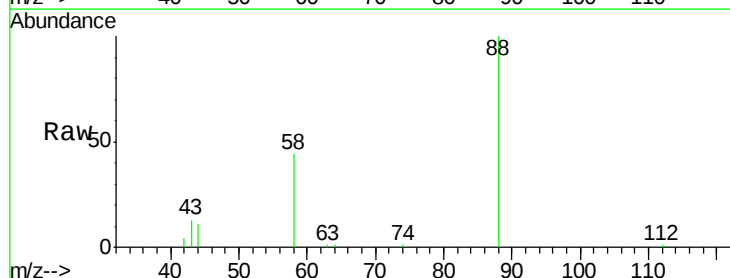
Tgt Ion: 88 Resp: 14598

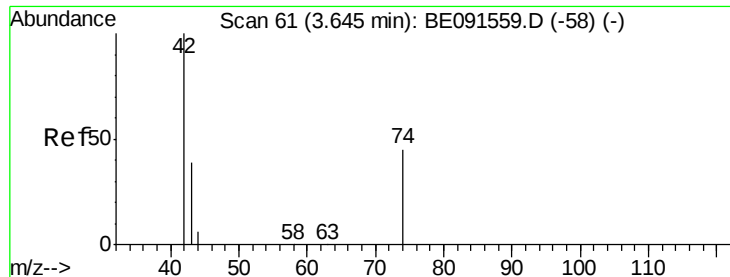
Ion Ratio Lower Upper

88 100

58 84.1 61.0 91.6

43 37.5 25.4 38.2





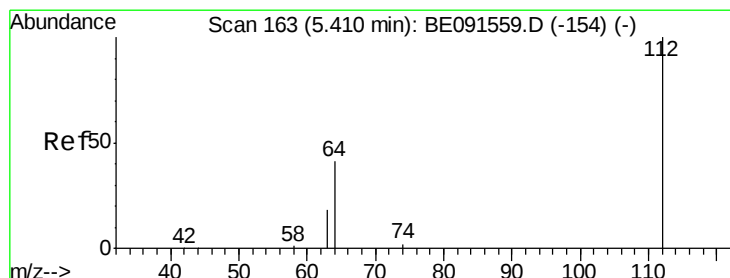
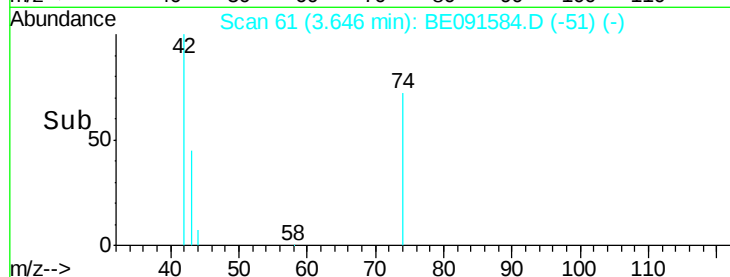
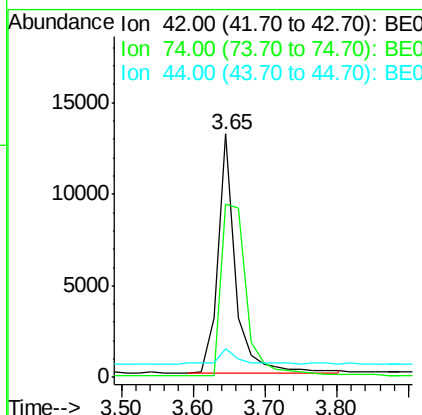
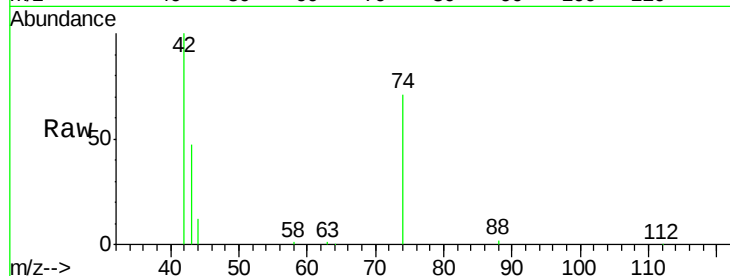
#3
n-Nitrosodimethylamine
Concen: 3.70 ng
RT: 3.65 min Scan# 61
Delta R.T. -0.03 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tgt Ion	Ratio	Lower	Upper
42	100		
74	104.4	84.3	126.5
44	6.9	6.7	10.1

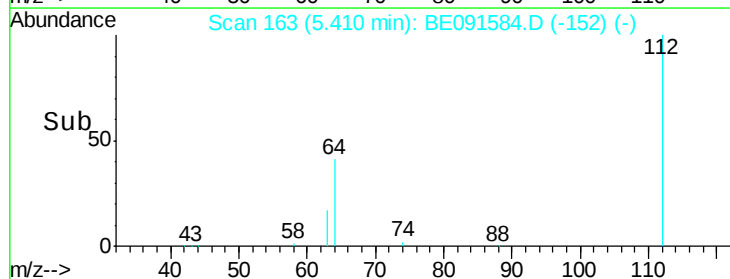
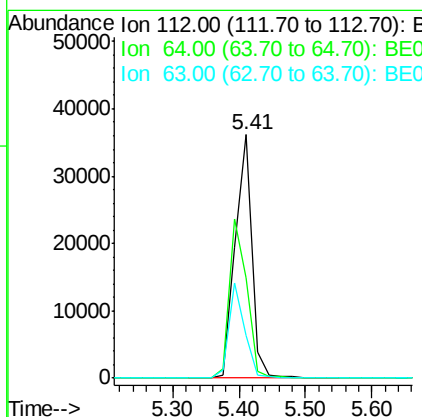
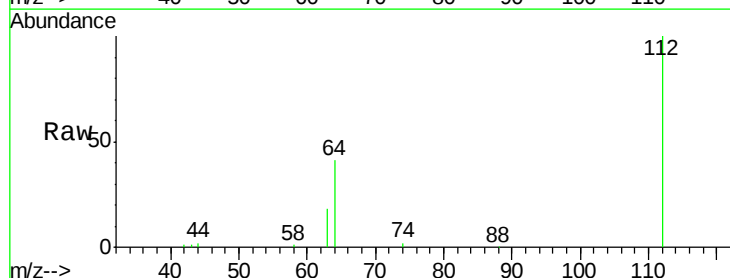
Manual Integrations
APPROVED

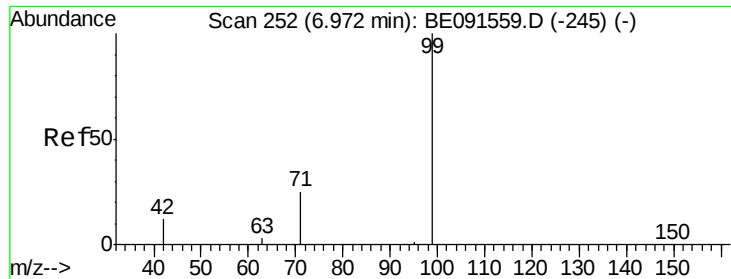
Sohil
4/1/2016 9:39:14 PM



#4
2-Fluorophenol
Concen: 7.25 ng
RT: 5.41 min Scan# 163
Delta R.T. -0.01 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.1	53.3	79.9
63	36.7	29.8	44.8





#5

Phenol-d6

Concen: 7.77 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

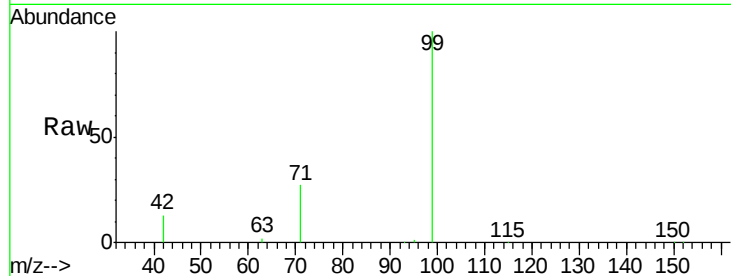
ClientSampleId :

LOQ-WATER2016-02

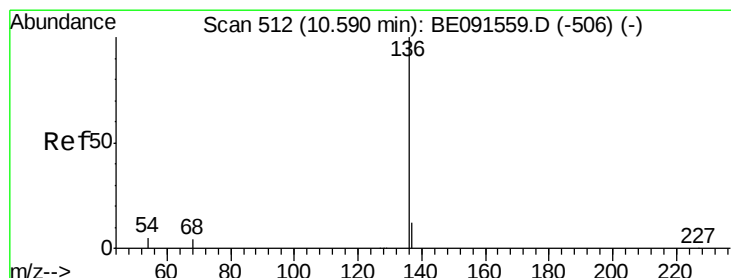
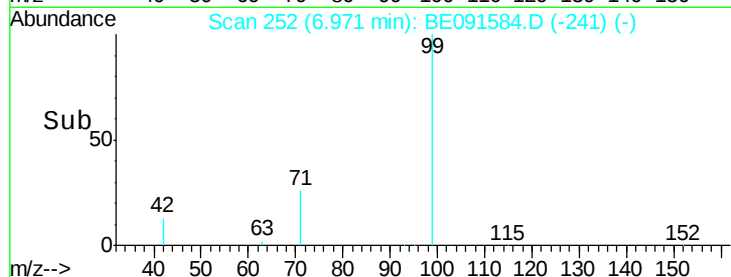
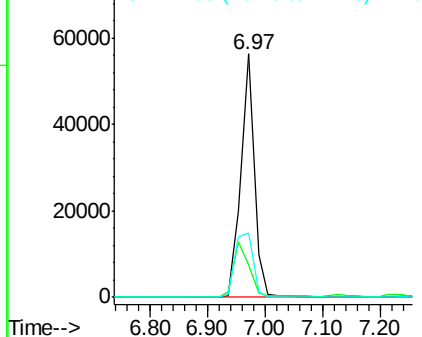
Tgt Ion:	99	Resp:	91382
Ion Ratio	Lower	Upper	
99	100		
42	25.4	20.6	30.8
71	35.7	29.0	43.4

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

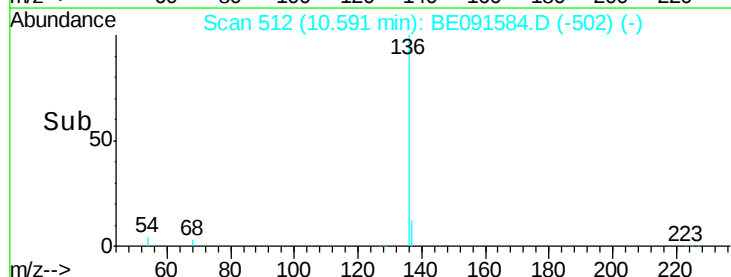
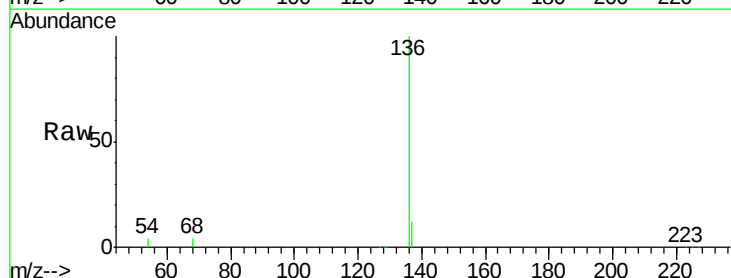
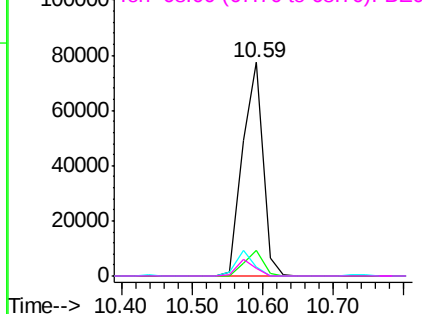
Delta R.T. -0.00 min

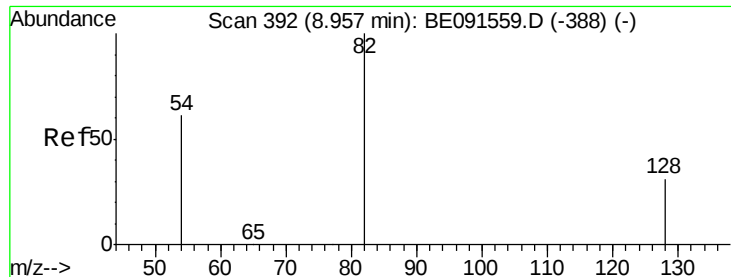
Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Tgt Ion:	136	Resp:	156161
Ion Ratio	Lower	Upper	
136	100		
137	11.7	8.8	13.2
54	4.4	5.2	7.8#
68	3.6	4.1	6.1#

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): BE0
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 3.97 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091584.D

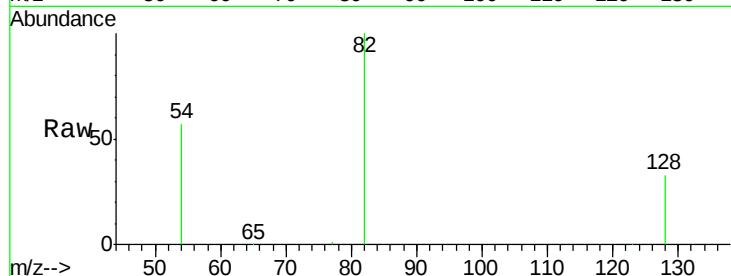
Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02



Tgt Ion: 82 Resp: 41666

Ion Ratio Lower Upper

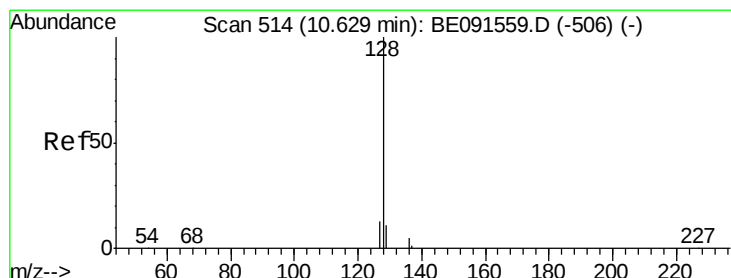
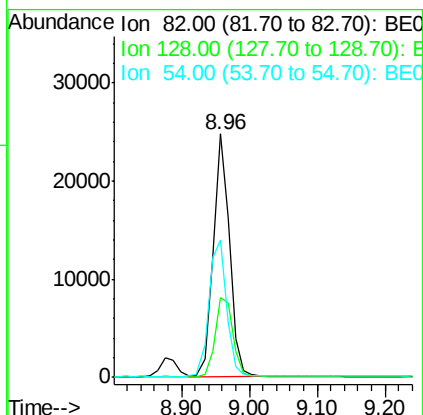
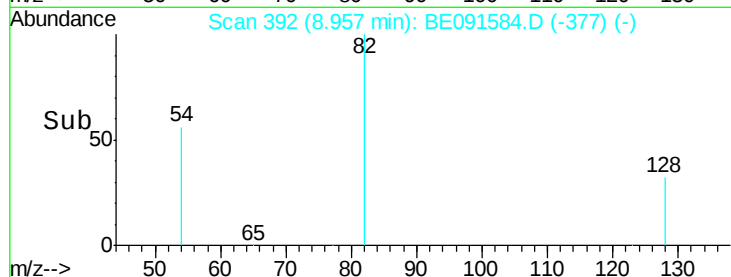
82 100

128 32.6 23.5 35.3

54 56.6 52.4 78.6

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM



#8

Naphthalene

Concen: 3.92 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

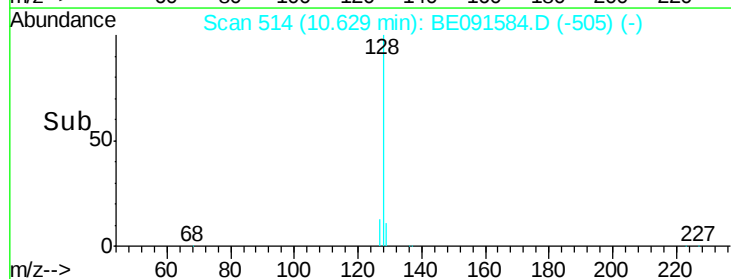
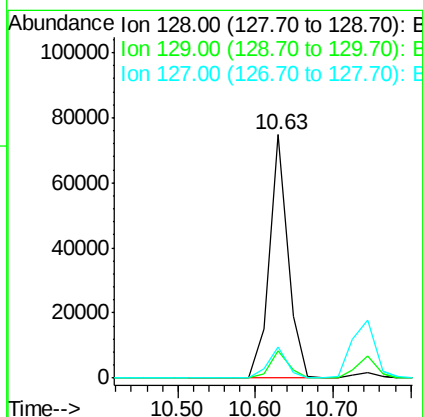
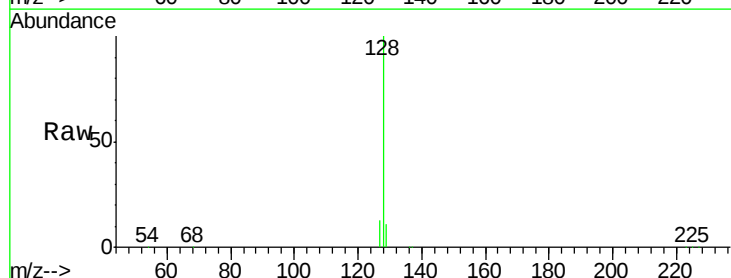
Tgt Ion: 128 Resp: 126479

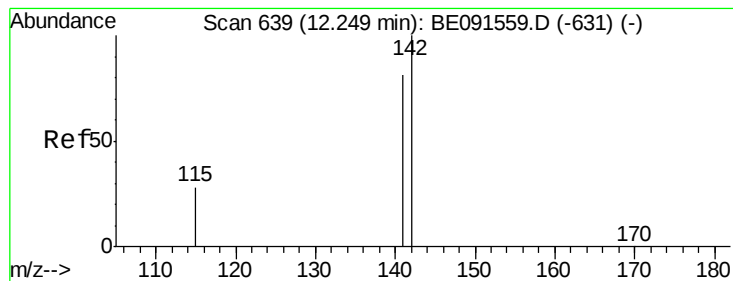
Ion Ratio Lower Upper

128 100

129 11.0 8.2 12.2

127 13.0 11.8 17.8





#9

2-Methylnaphthalene

Concen: 4.29 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

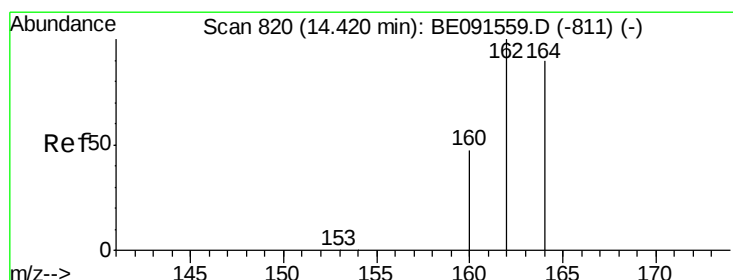
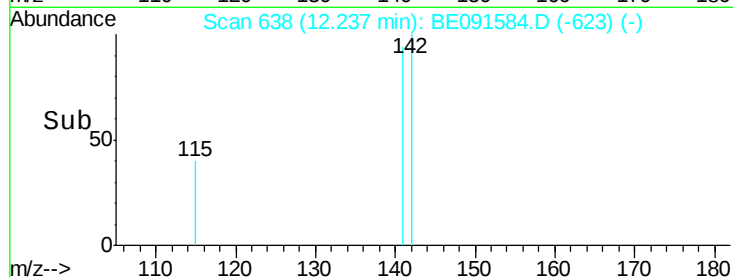
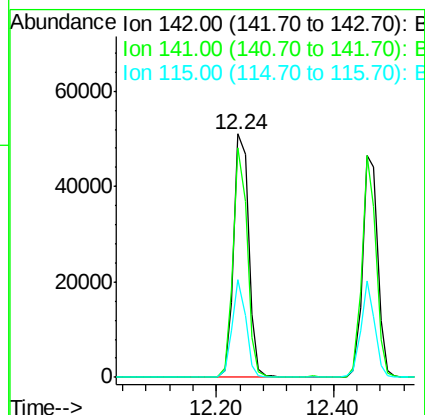
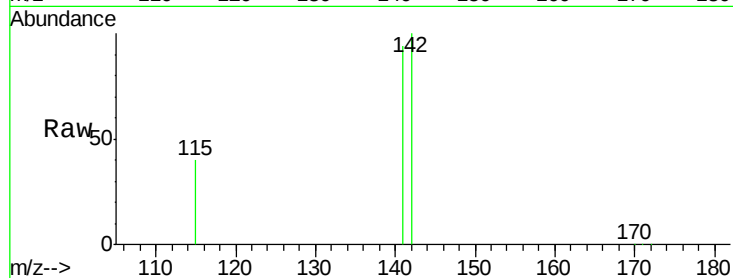
ClientSampleId :

LOQ-WATER2016-02

Tgt Ion:	142	Resp:	90452
Ion Ratio	Lower	Upper	
142	100		
141	94.4	66.9	100.3
115	40.1	25.1	37.7#

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM



#10

Acenaphthene-d10

Concen: 5.00 ng

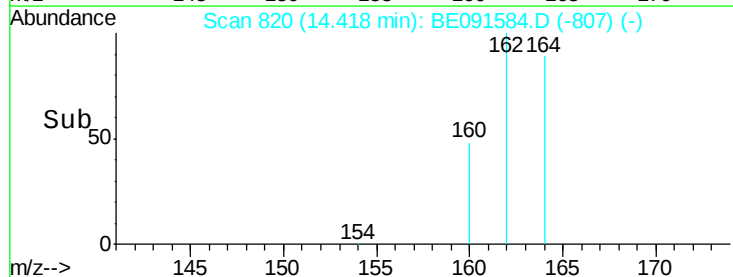
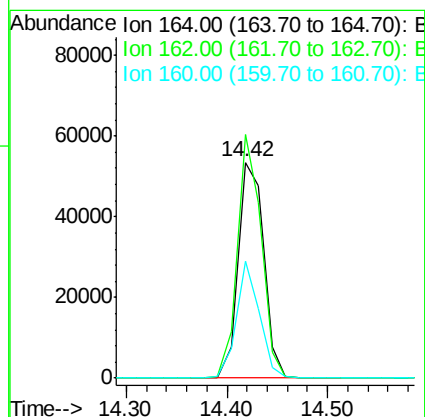
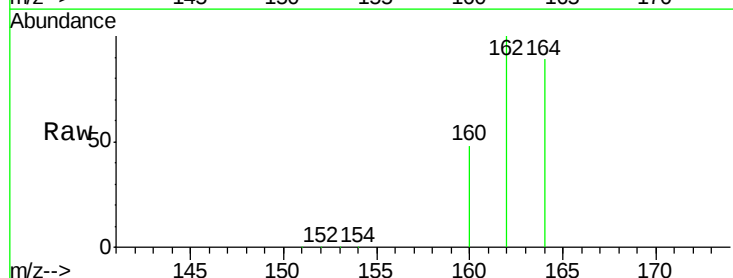
RT: 14.42 min Scan# 820

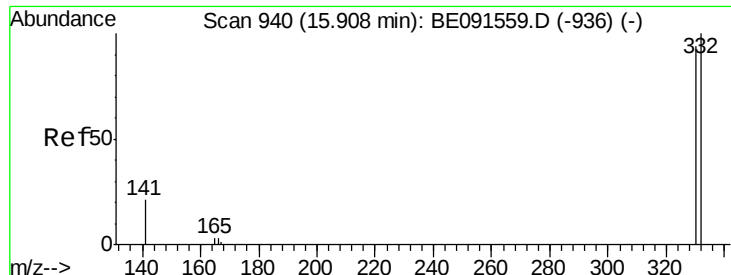
Delta R.T. -0.03 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Tgt Ion:	164	Resp:	94530
Ion Ratio	Lower	Upper	
164	100		
162	112.9	84.4	126.6
160	54.3	37.7	56.5





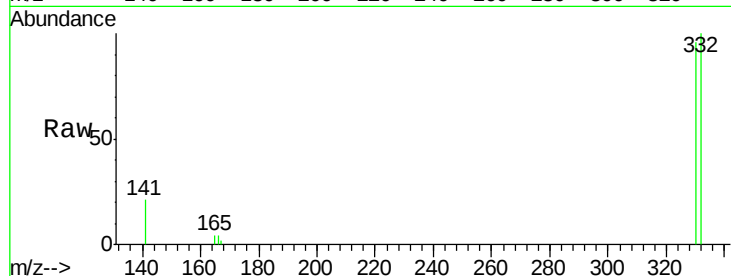
#11
2,4,6-Tribromophenol
Concen: 7.41 ng
RT: 15.91 min Scan# 940
Delta R.T. -0.01 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

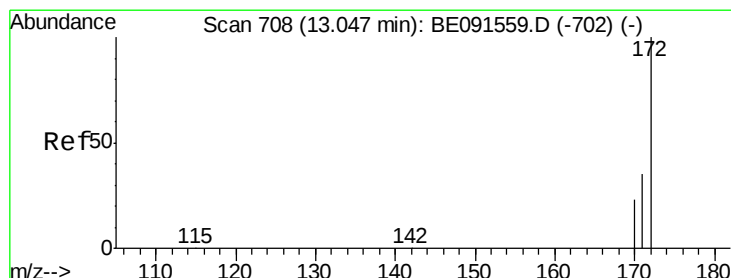
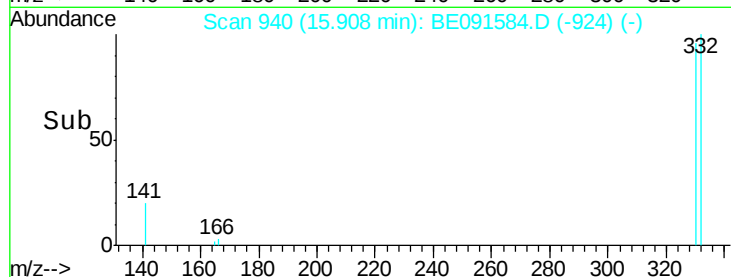
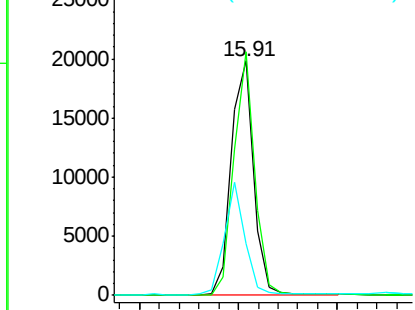
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	31038		
332	96.5	79.2	118.8	
141	43.2	28.1	42.1#	

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM

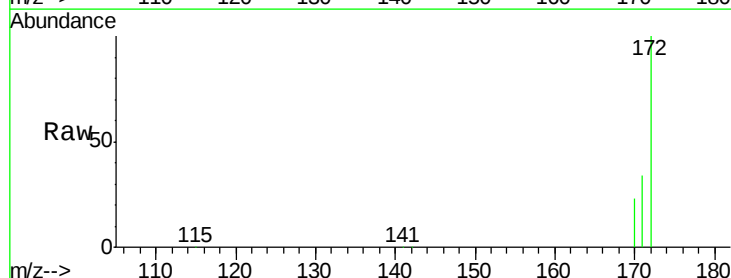


Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

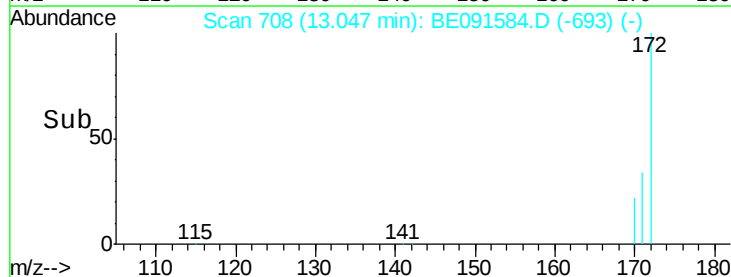
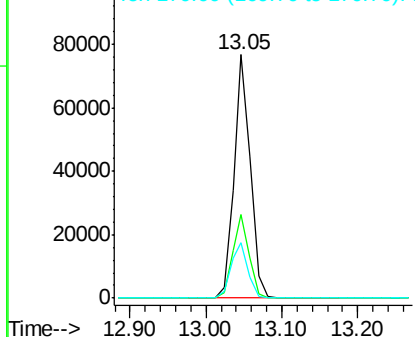


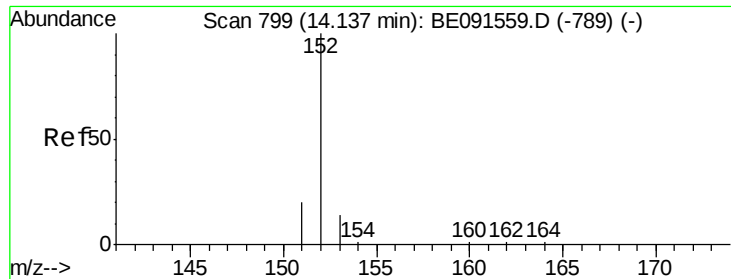
#12
2-Fluorobiphenyl
Concen: 4.30 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	115653		
171	34.3	29.8	44.8	
170	22.5	21.4	32.2	



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





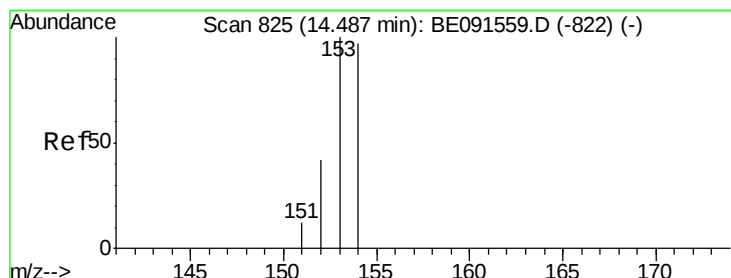
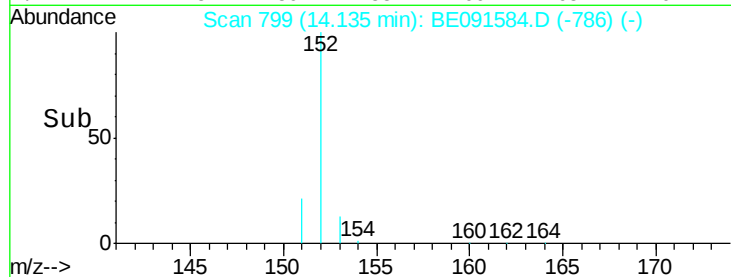
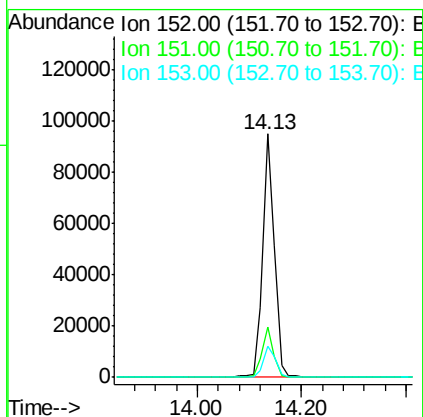
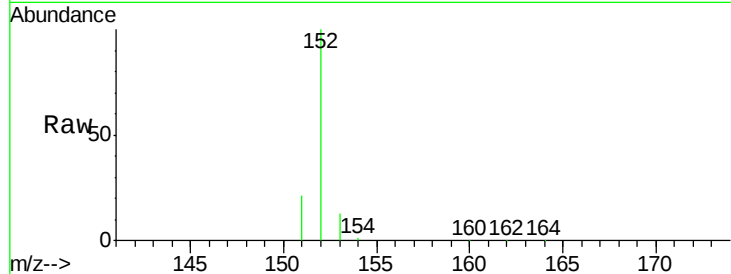
#13
Acenaphthylene
Concen: 4.16 ng
RT: 14.13 min Scan# 799
Delta R.T. -0.01 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	158629		
151	20.4	16.3	24.5	
153	13.7	11.1	16.7	

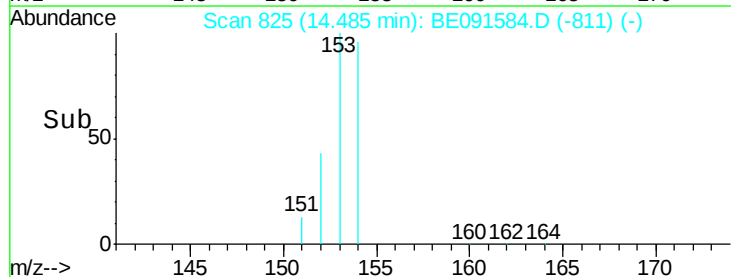
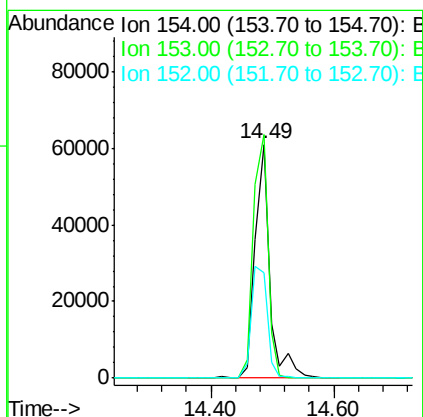
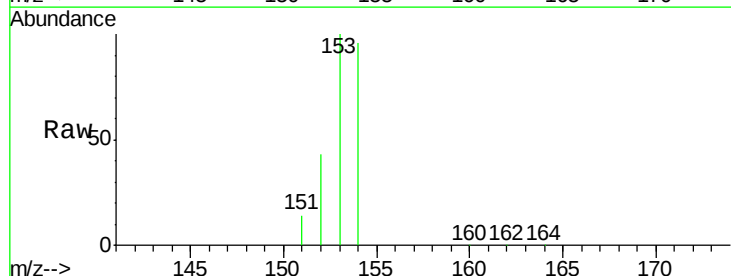
Manual Integrations
APPROVED

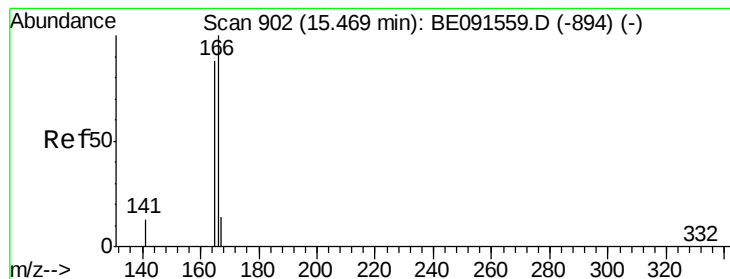
Sohil
4/1/2016 9:39:14 PM



#14
Acenaphthene
Concen: 4.41 ng
RT: 14.49 min Scan# 825
Delta R.T. -0.01 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	103165		
153	103.0	87.3	130.9	
152	50.9	42.9	64.3	





#15

Fluorene

Concen: 4.30 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091584.D

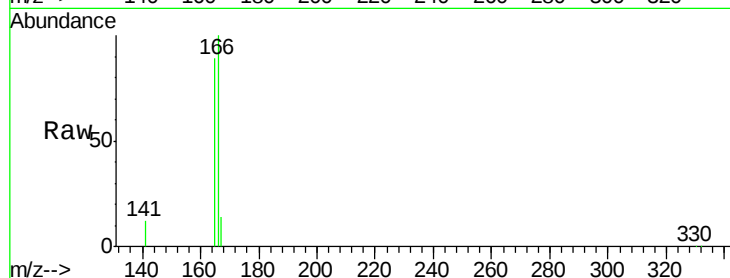
Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

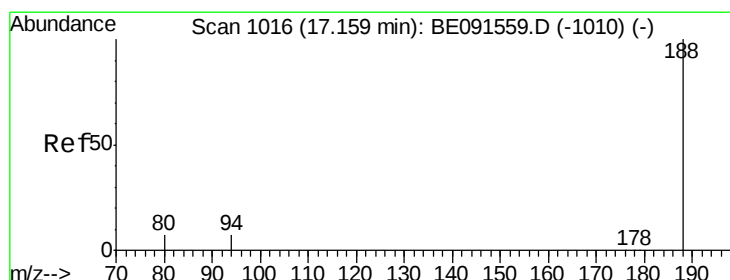
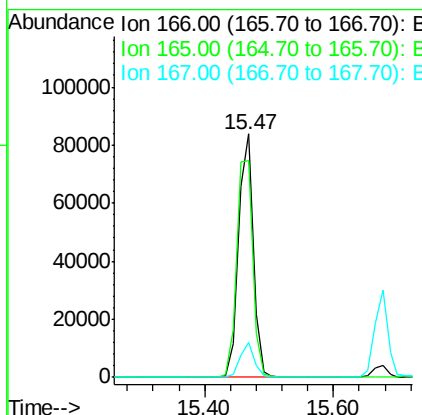
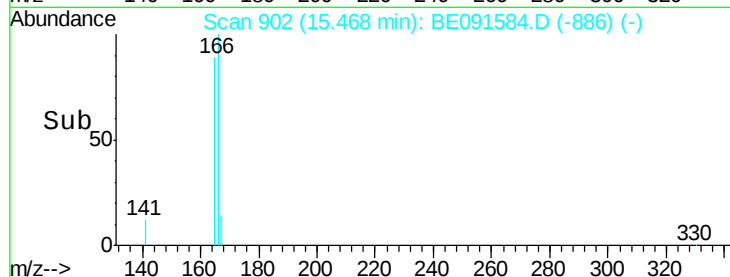
LOQ-WATER2016-02



Tgt Ion:	166	Resp:	129434
Ion Ratio	Lower	Upper	
166	100		
165	98.5	79.2	118.8
167	13.4	10.8	16.2

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM



#16

Phenanthrene-d10

Concen: 5.00 ng

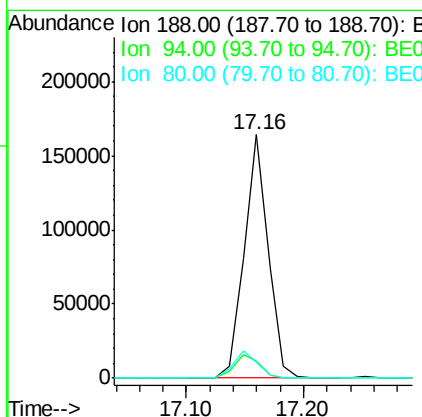
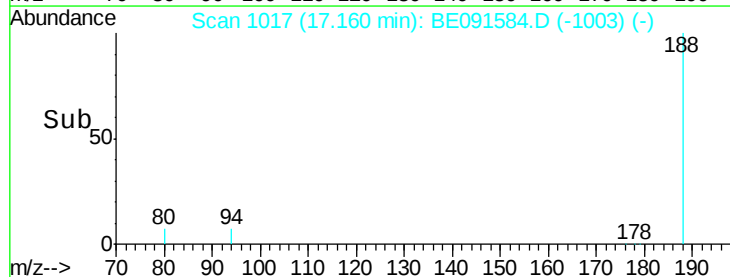
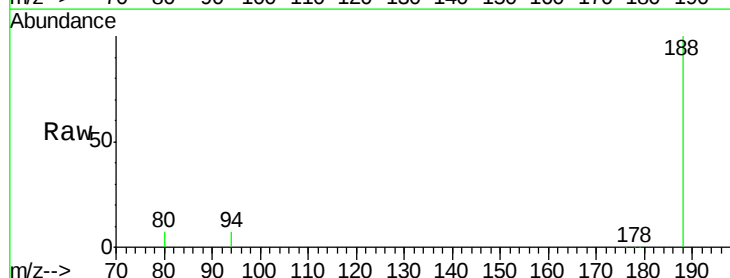
RT: 17.16 min Scan# 1017

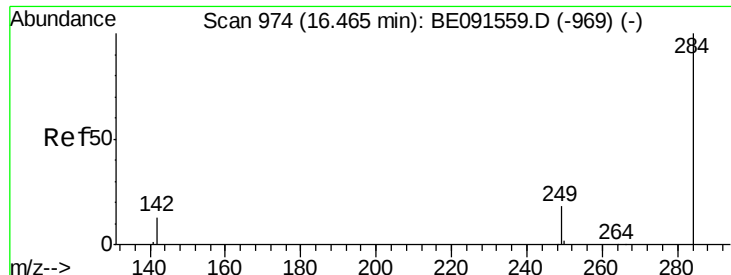
Delta R.T. -0.01 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Tgt Ion:	188	Resp:	233909
Ion Ratio	Lower	Upper	
188	100		
94	7.2	5.4	8.2
80	6.6	5.0	7.4





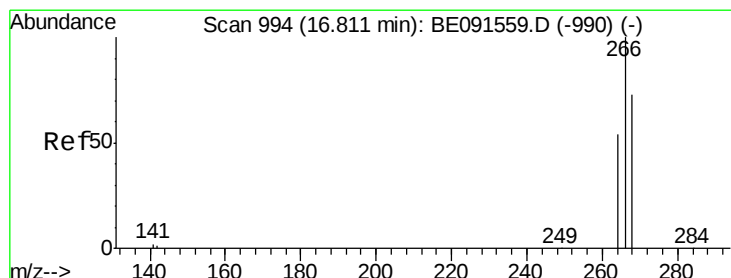
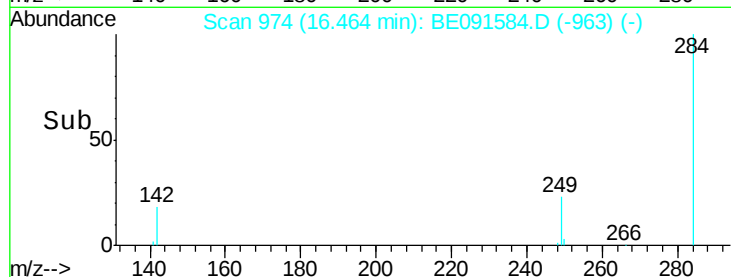
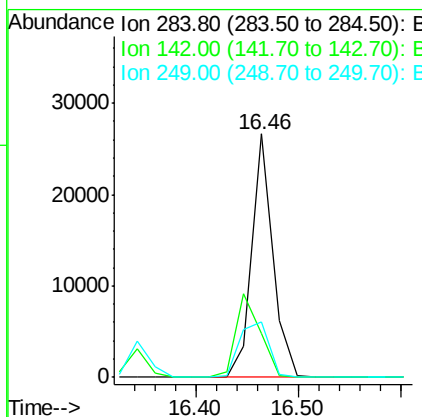
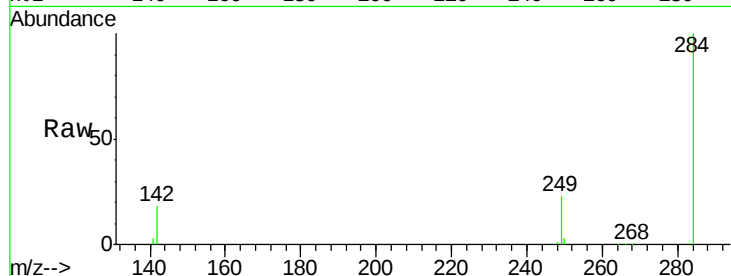
#17
Hexachlorobenzene
Concen: 4.43 ng m
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	39.4	31.0	46.4
249	31.5	25.8	38.8

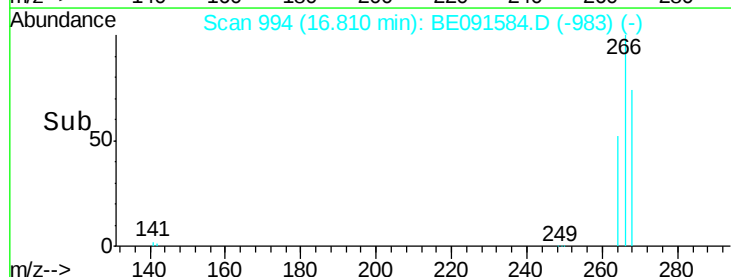
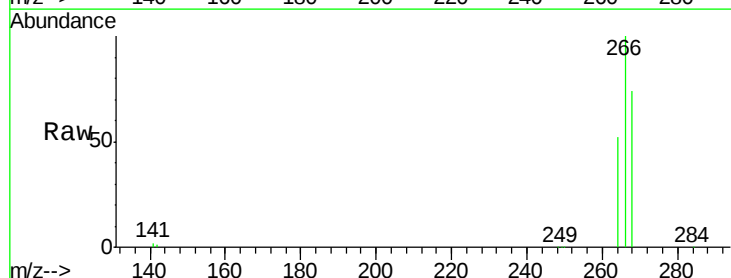
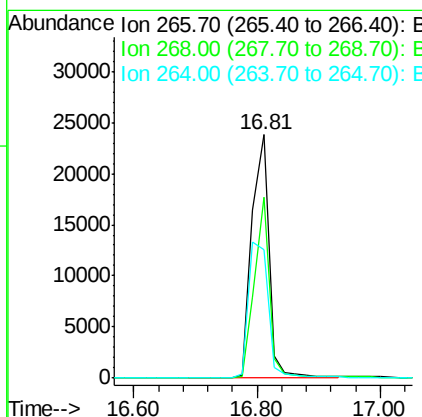
Manual Integrations
APPROVED

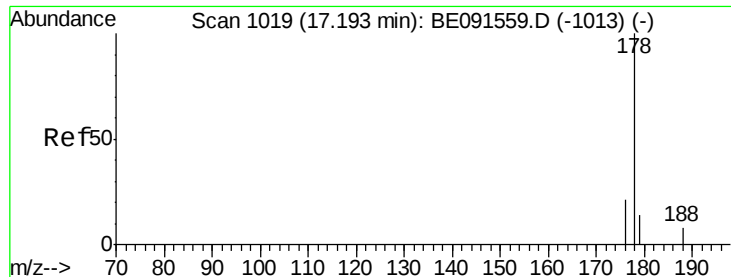
Sohil
4/1/2016 9:39:14 PM



#18
Pentachlorophenol
Concen: 9.46 ng
RT: 16.81 min Scan# 994
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Resp Lower	Resp Upper
266	100		
268	74.1	48.2	72.2#
264	52.5	52.1	78.1





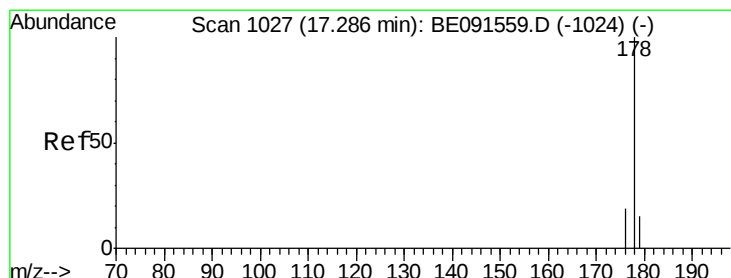
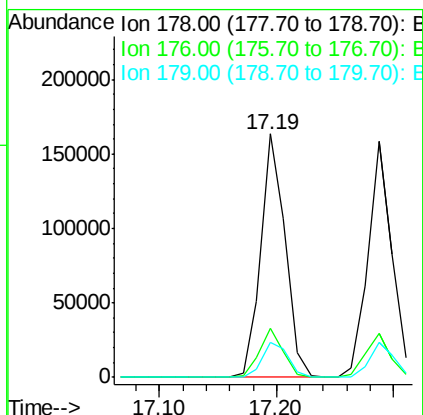
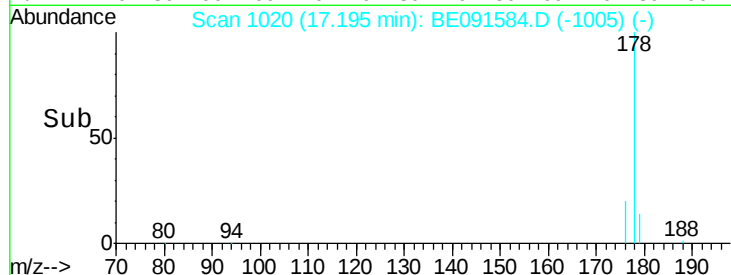
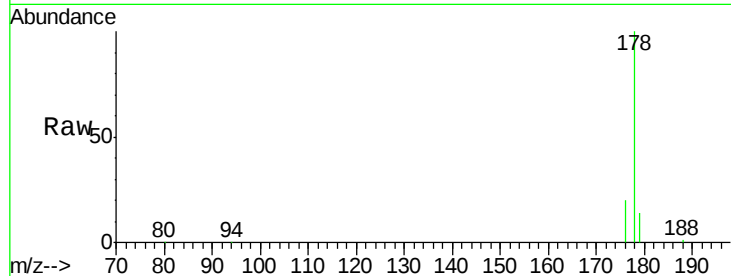
#19
Phenanthrene
Concen: 4.36 ng
RT: 17.19 min Scan# 1020
Delta R.T. -0.01 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.5	13.1	19.7

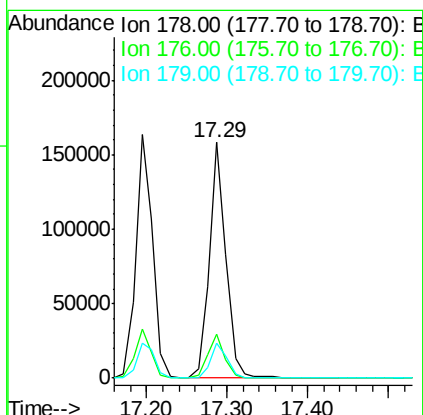
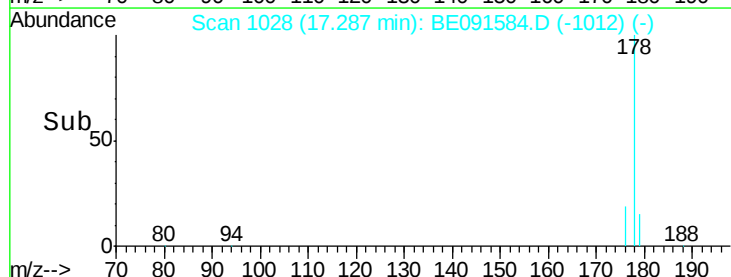
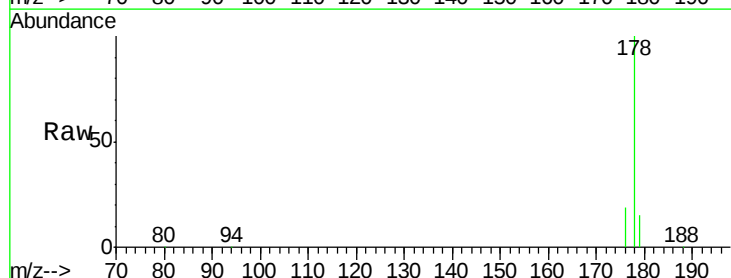
Manual Integrations
APPROVED

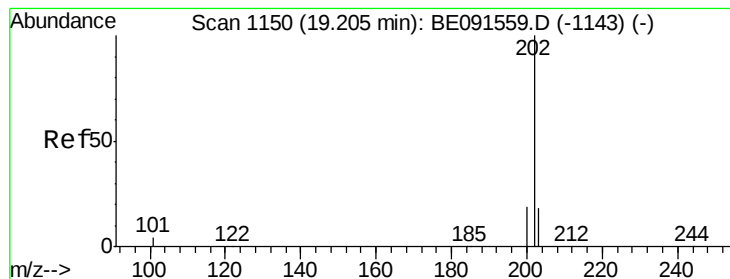
Sohil
4/1/2016 9:39:14 PM



#20
Anthracene
Concen: 4.50 ng
RT: 17.29 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.1	12.2	18.4





#21

Fluoranthene

Concen: 4.48 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091584.D

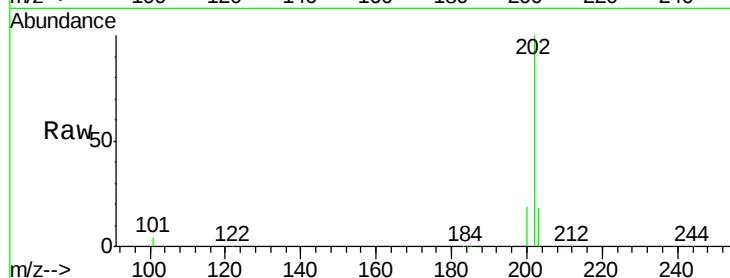
Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

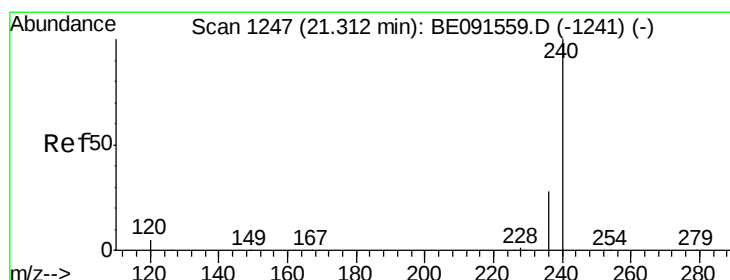
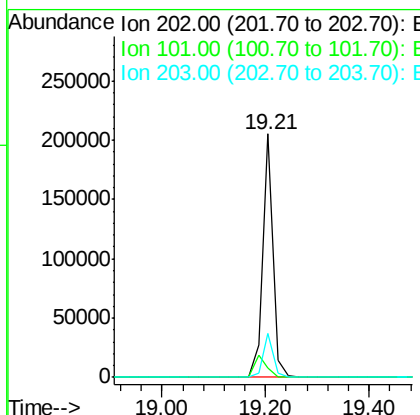
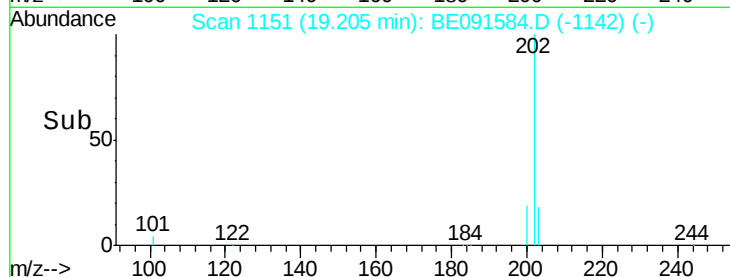
LOQ-WATER2016-02



Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		289384		
101	11.0	8.3	12.5		
203	18.0	13.9	20.9		

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM



#22

Chrysene-d12

Concen: 5.00 ng

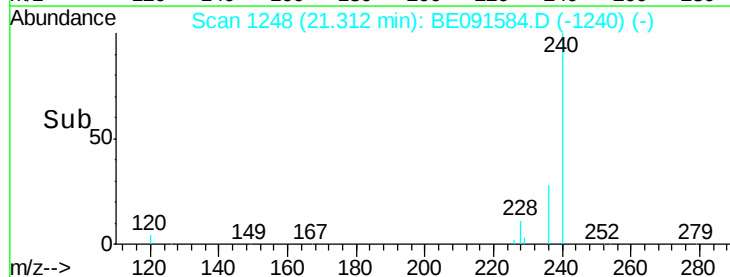
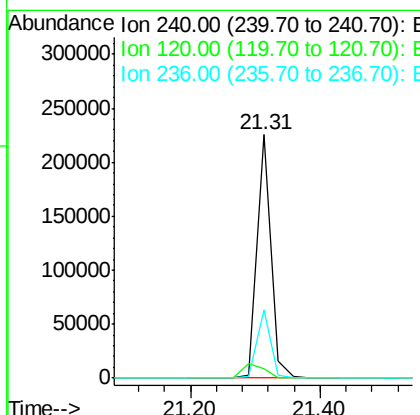
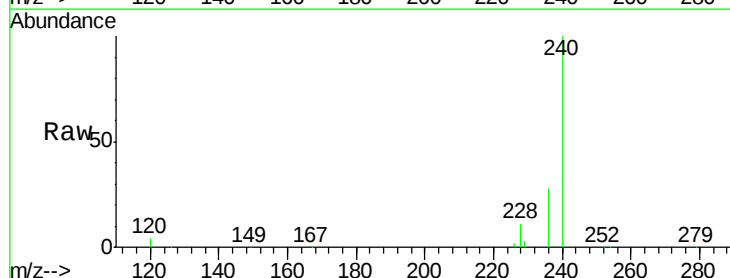
RT: 21.31 min Scan# 1248

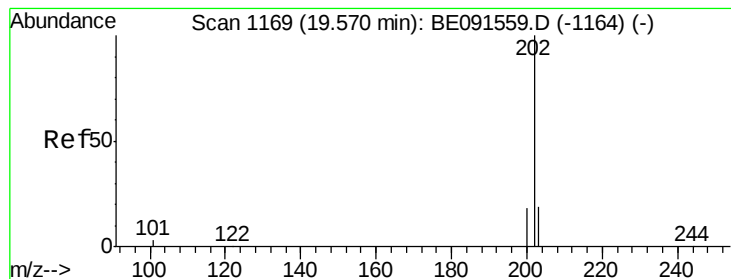
Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		342360		
120	4.0	4.0	6.0#		
236	28.2	23.0	34.4		





#23

Pyrene

Concen: 4.29 ng

RT: 19.57 min Scan# 1170

Delta R.T. -0.00 min

Lab File: BE091584.D

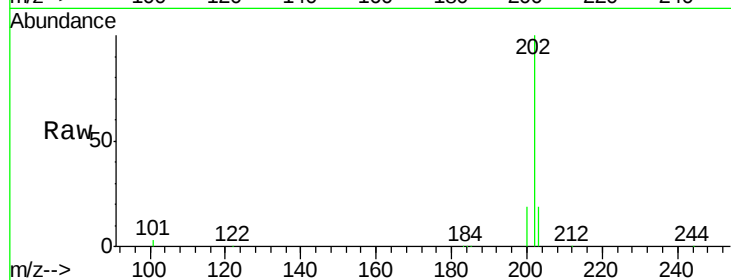
Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

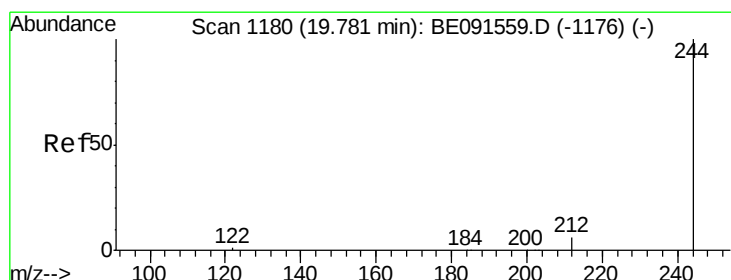
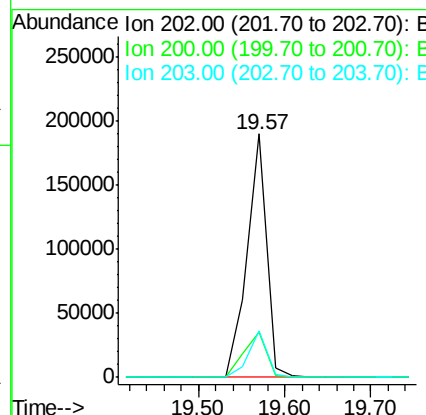
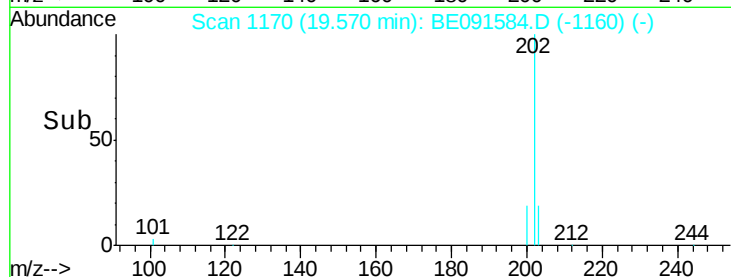
LOQ-WATER2016-02



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	299742		
200	21.0	16.4	24.6	
203	18.2	14.6	21.8	

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM



#24

Terphenyl-d14

Concen: 4.31 ng

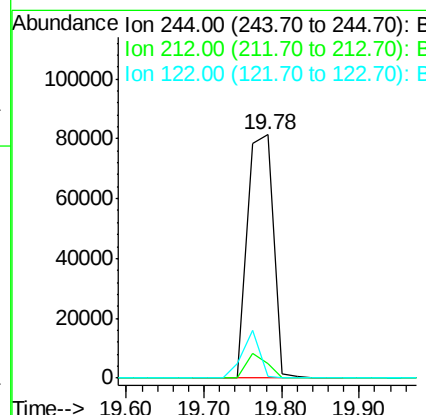
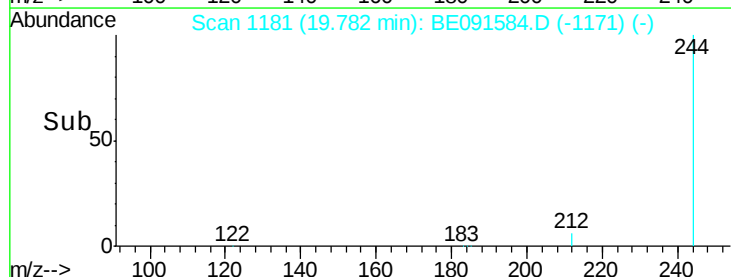
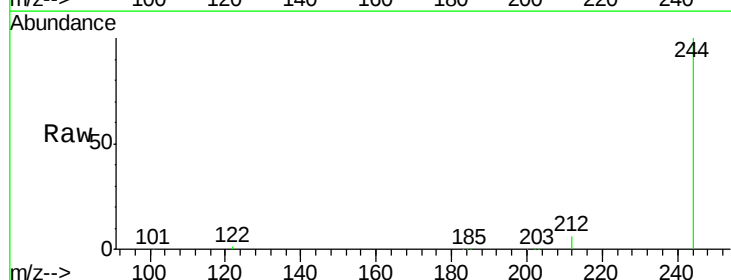
RT: 19.78 min Scan# 1181

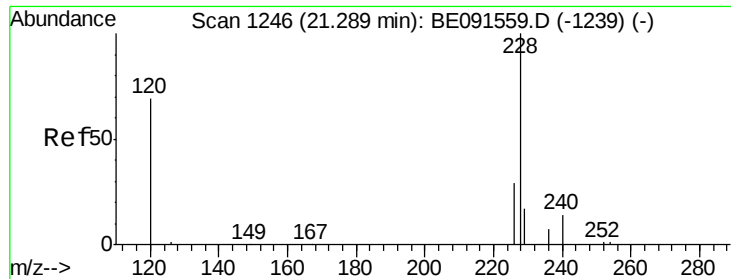
Delta R.T. -0.00 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	187224		
212	6.1	5.8	8.8	
122	0.5	1.8	2.8	





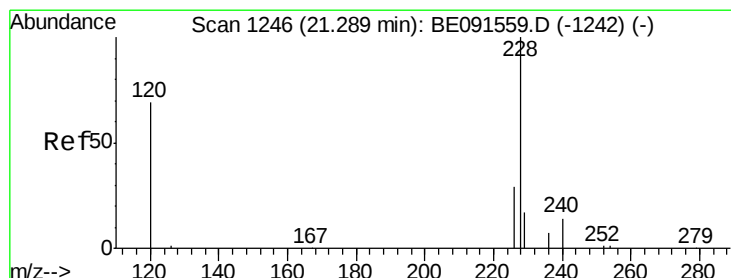
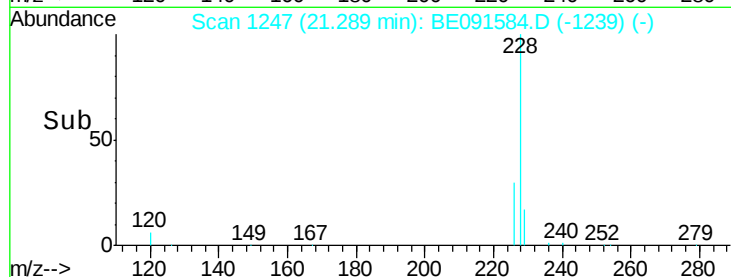
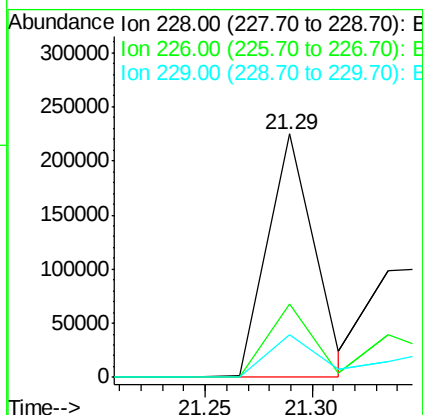
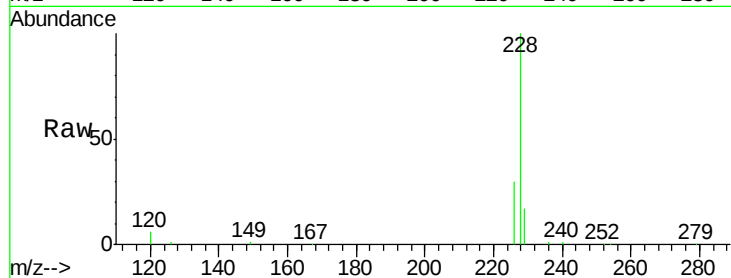
#25
Benzo(a)anthracene
Concen: 4.31 ng m
RT: 21.29 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	17.5	13.8	20.6

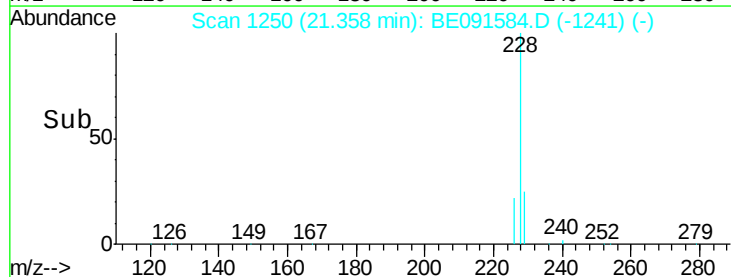
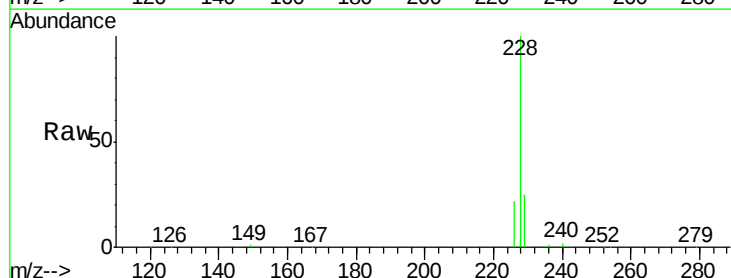
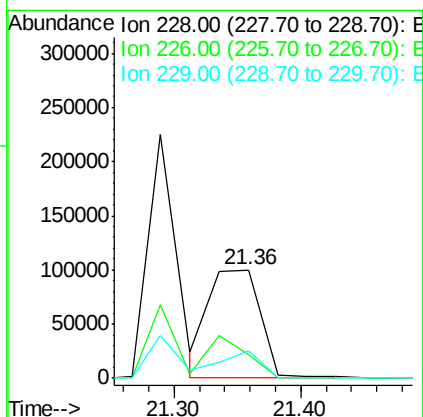
Manual Integrations
APPROVED

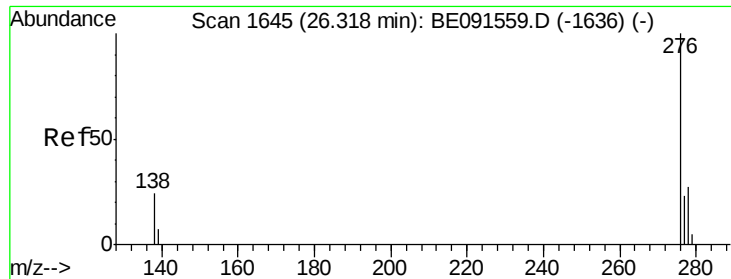
Sohil
4/1/2016 9:39:14 PM



#26
Chrysene
Concen: 4.11 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	22.2	18.9	28.3
229	24.9	19.1	28.7





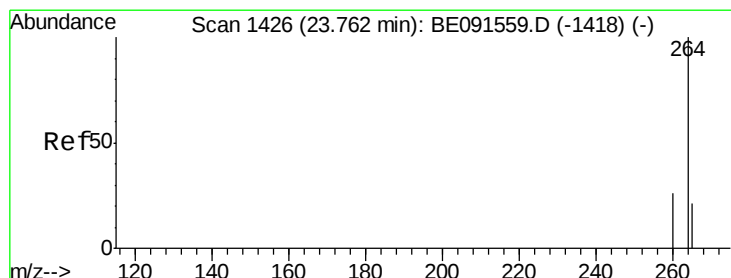
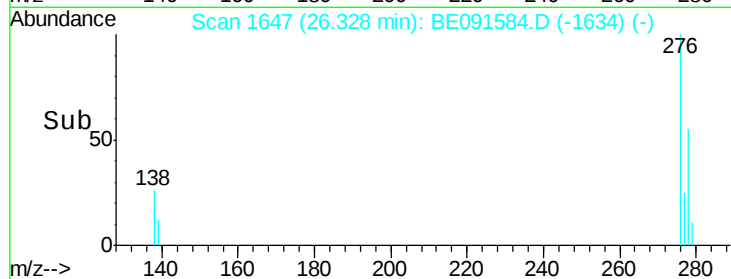
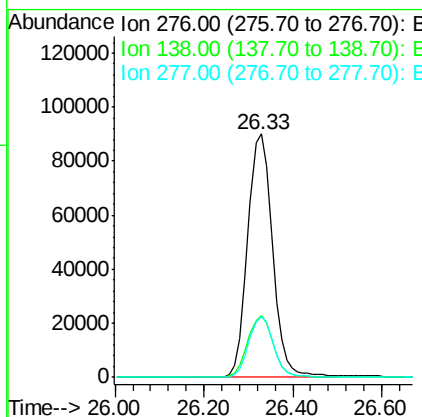
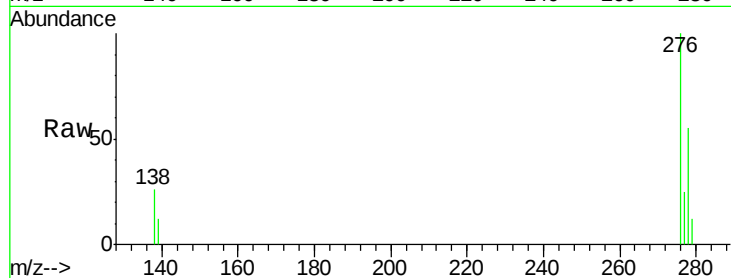
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 4.30 ng
 RT: 26.33 min Scan# 1647
 Delta R.T. -0.05 min
 Lab File: BE091584.D
 Acq: 31 Mar 2016 14:43

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER2016-02

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	25.9	20.2	30.4
277	24.8	19.8	29.8

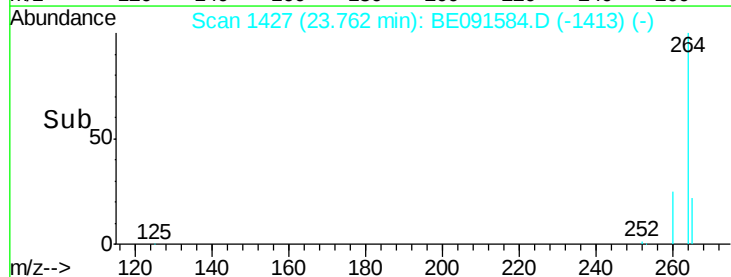
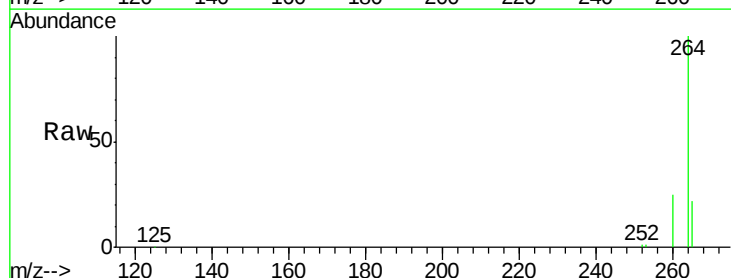
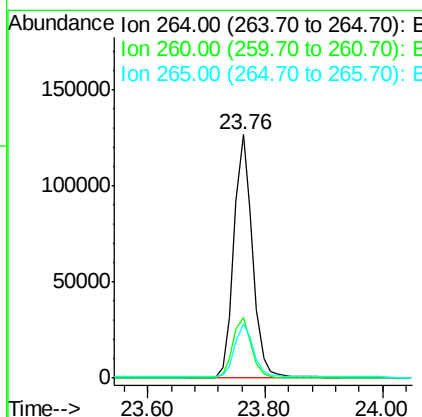
Manual Integrations
 APPROVED

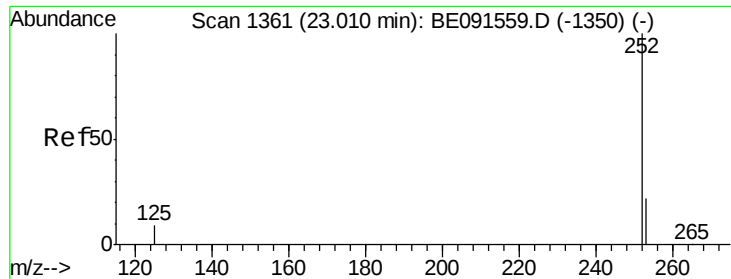
Sohil
 4/1/2016 9:39:14 PM



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1427
 Delta R.T. -0.03 min
 Lab File: BE091584.D
 Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.8	20.1	30.1
265	22.3	18.3	27.5





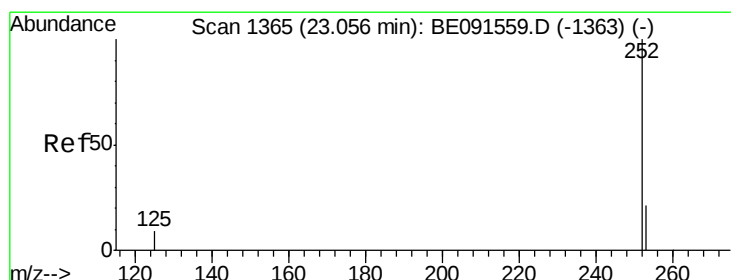
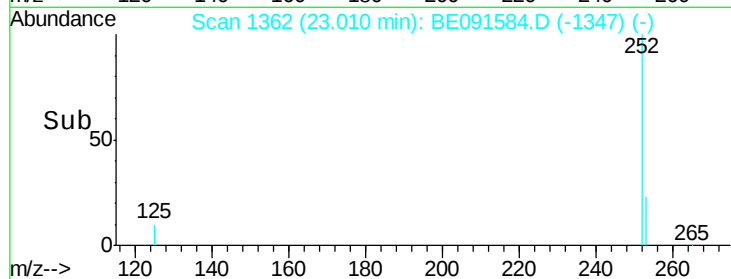
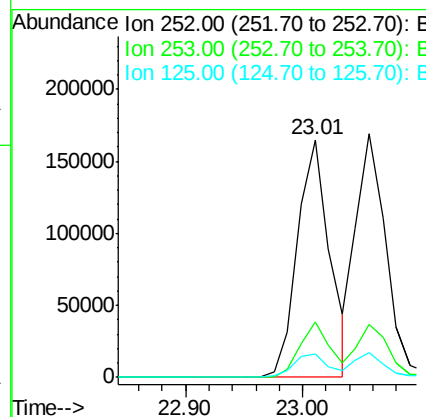
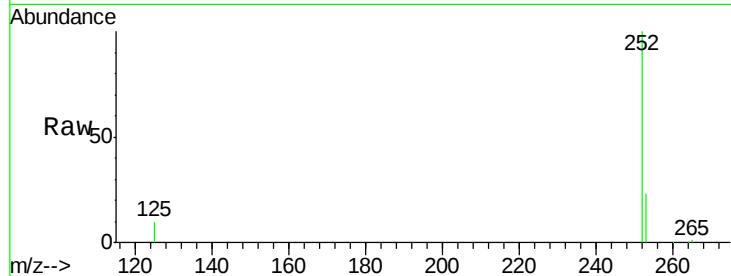
#29
Benzo(b)fluoranthene
Concen: 4.66 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.7	28.1
125	9.9	9.8	14.6

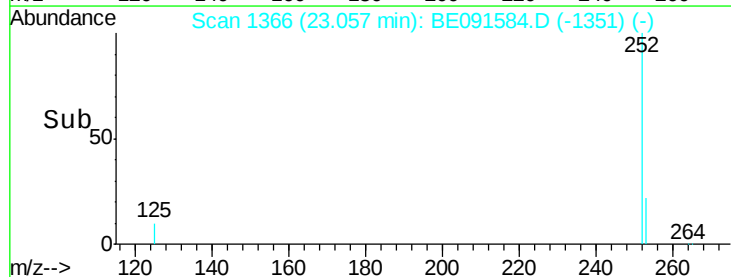
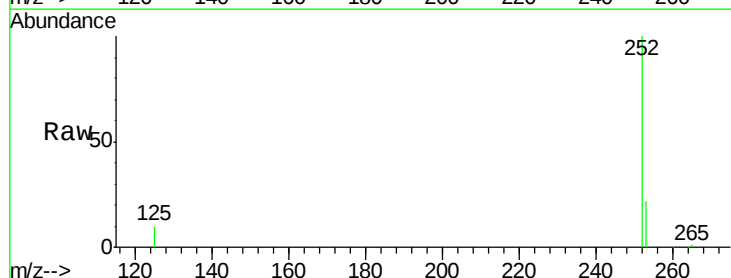
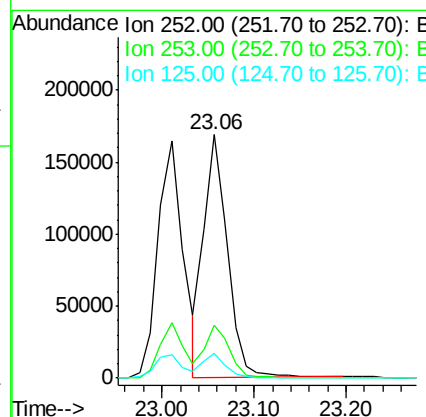
Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM



#30
Benzo(k)fluoranthene
Concen: 4.60 ng
RT: 23.06 min Scan# 1366
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	20.2	30.4
125	10.1	9.4	14.2





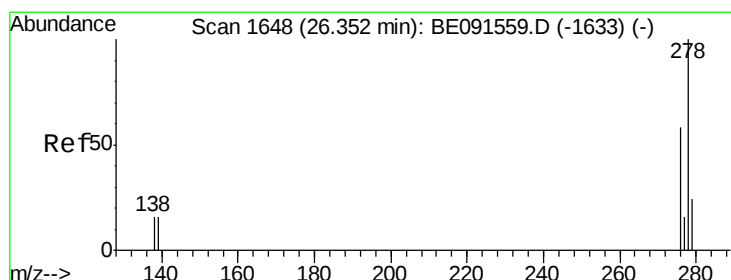
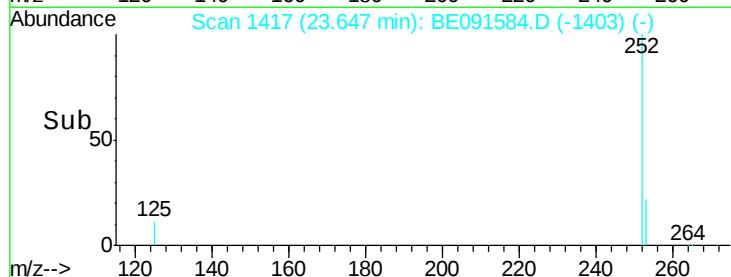
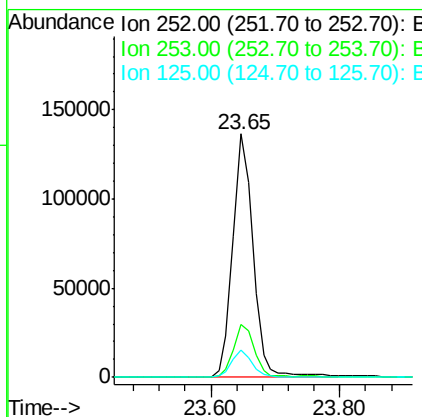
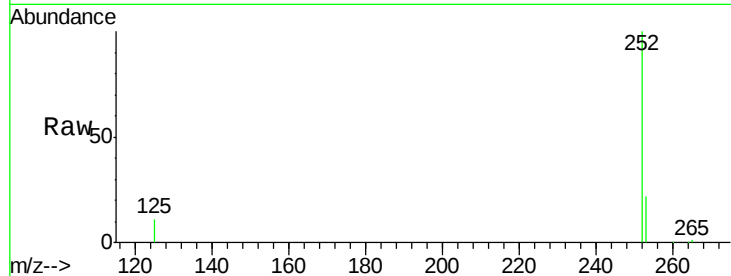
#31
Benzo(a)pyrene
Concen: 4.79 ng
RT: 23.65 min Scan# 1417
Delta R.T. -0.03 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	21.8	19.4	29.0
125	11.4	11.4	17.2

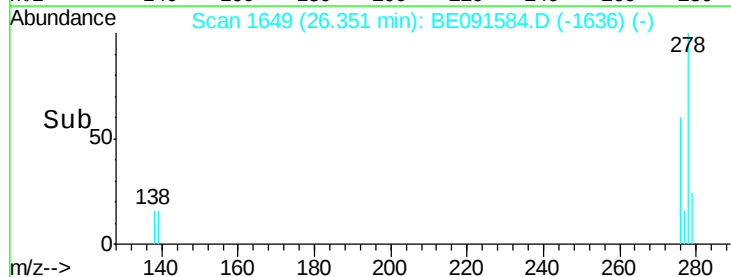
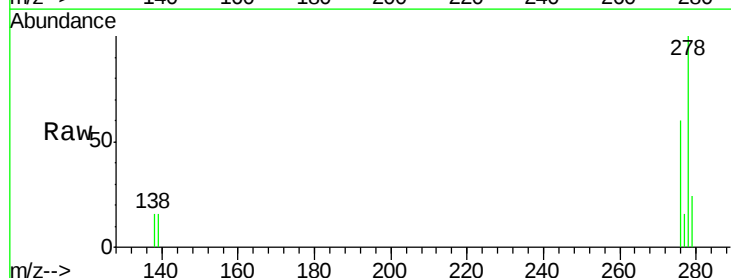
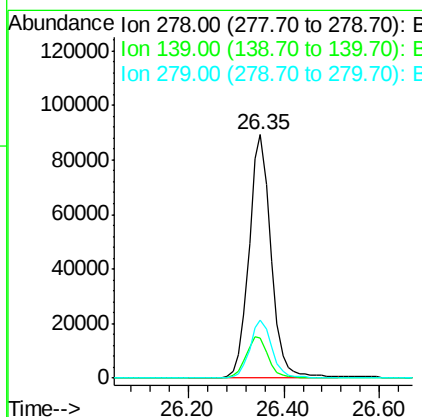
Manual Integrations
APPROVED

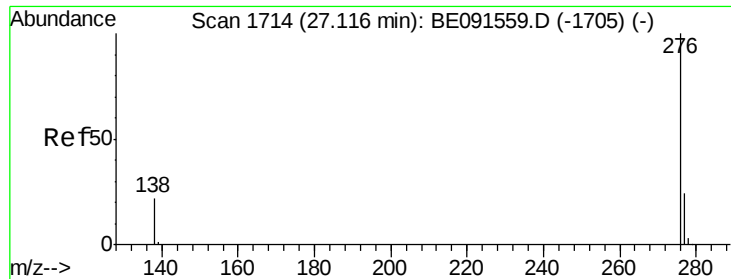
Sohil
4/1/2016 9:39:14 PM



#32
Dibenzo(a,h)anthracene
Concen: 4.70 ng
RT: 26.35 min Scan# 1649
Delta R.T. -0.05 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	16.3	14.2	21.4
279	23.8	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 4.61 ng

RT: 27.11 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091584.D

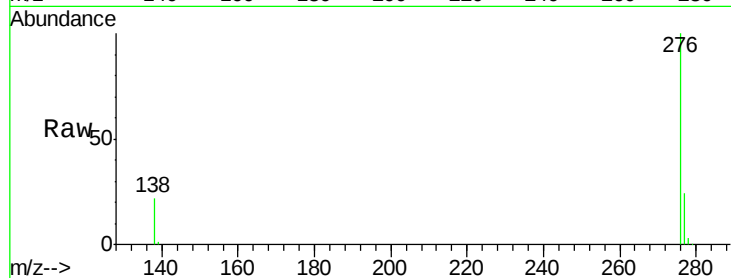
Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02



Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		285011		
277	23.8	19.4	29.2		
138	22.1	18.2	27.4		

Manual Integrations
APPROVED

Sohil
4/1/2016 9:39:14 PM

