

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE033116\
 Data File : BE091570.D
 Acq On : 31 Mar 2016 1:03
 Operator : UM/SJ
 Sample : PB89278BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB89278BS

Manual Integrations
 APPROVED

Sohil
 3/31/2016 4:56:30 PM

Quant Time: Mar 31 03:03:09 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	38521	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	179546	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	109461	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	269680	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	401066	5.00	ng	-0.02
28) Perylene-d12	23.76	264	328175	5.00	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	67542	6.70	ng	-0.01
5) Phenol-d6	6.97	99	98201	7.20	ng	-0.02
7) Nitrobenzene-d5	8.96	82	45584	3.78	ng	-0.02
11) 2,4,6-Tribromophenol	15.90	330	33369	6.88	ng	-0.02
12) 2-Fluorobiphenyl	13.05	172	123009	3.95	ng	-0.02
24) Terphenyl-d14	19.76	244	197730	3.89	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.35	88	16532	3.64	ng	90
3) n-Nitrosodimethylamine	3.65	42	25740	3.68	ng	# 98
8) Naphthalene	10.63	128	142710	3.85	ng	97
9) 2-Methylnaphthalene	12.24	142	104439	4.31	ng	# 87
13) Acenaphthylene	14.14	152	186617	4.23	ng	97
14) Acenaphthene	14.49	154	119350	4.41	ng	93
15) Fluorene	15.47	166	145573	4.18	ng	100
17) Hexachlorobenzene	16.46	284	41283	4.16	ng	99
18) Pentachlorophenol	16.81	266	54493	9.78	ng	# 80
19) Phenanthrene	17.19	178	264558	4.19	ng	99
20) Anthracene	17.29	178	256420	4.40	ng	100
21) Fluoranthene	19.20	202	329350	4.42	ng	98
23) Pyrene	19.57	202	343377	4.20	ng	99
25) Benzo(a)anthracene	21.29	228	416554m	4.42	ng	
26) Chrysene	21.33	228	324369m	4.03	ng	
27) Indeno(1,2,3-cd)pyrene	26.33	276	386960	4.17	ng	99
29) Benzo(b)fluoranthene	23.01	252	370169m	4.65	ng	
30) Benzo(k)fluoranthene	23.06	252	348584	4.52	ng	94
31) Benzo(a)pyrene	23.65	252	340428	4.68	ng	# 94
32) Dibenzo(a,h)anthracene	26.35	278	323931	4.54	ng	98
33) Benzo(g,h,i)perylene	27.12	276	326316	4.48	ng	99

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

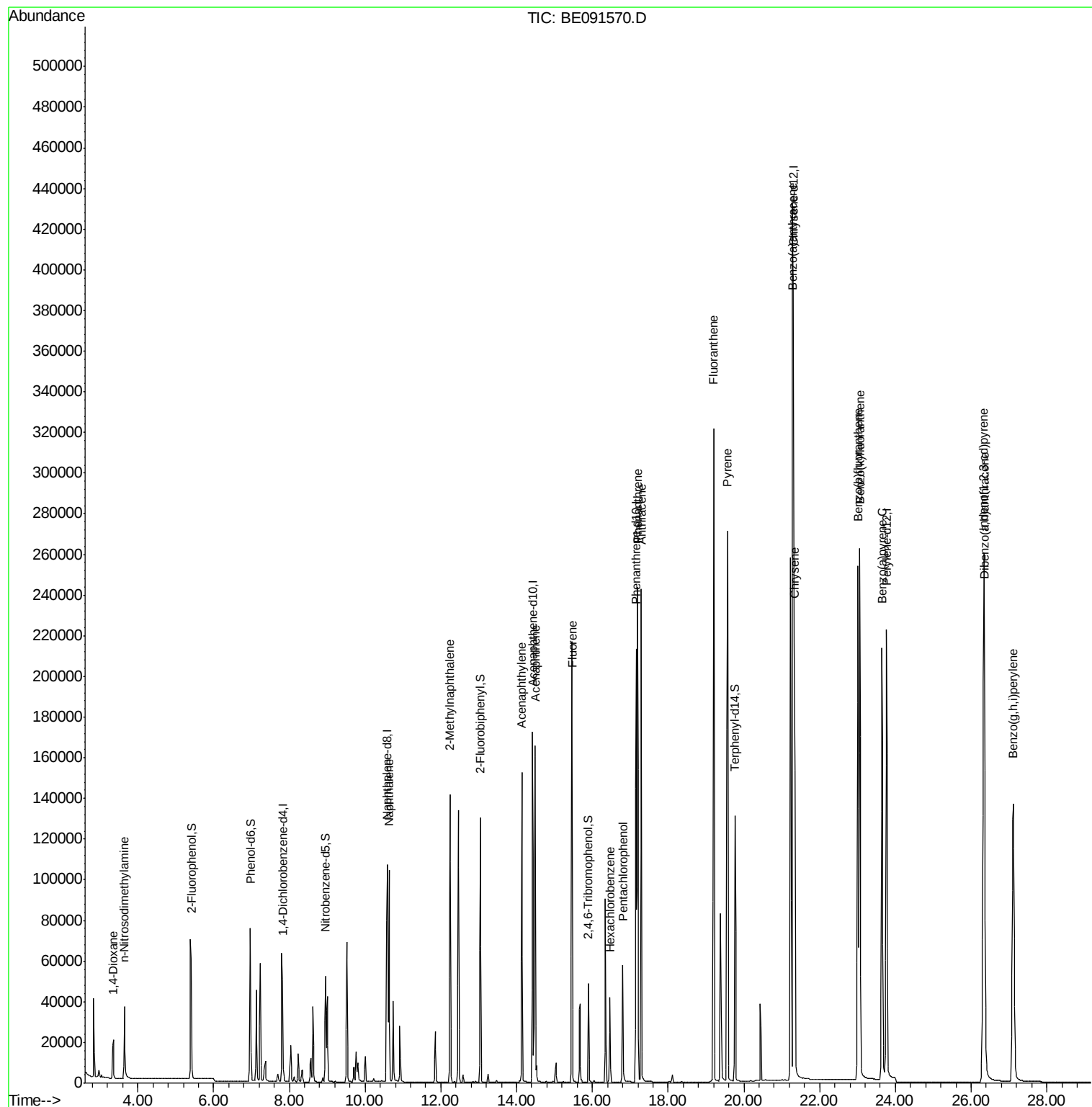
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE033116\
Data File : BE091570.D
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ALS Vial : 17 Sample Multiplier: 1

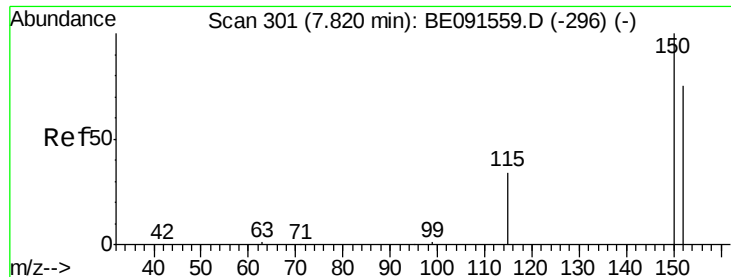
Instrument :
BNA_E
ClientSampleID :
PB89278BS

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Quant Time: Mar 31 03:03:09 2016
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. 0.00 min

Lab File: BE091570.D

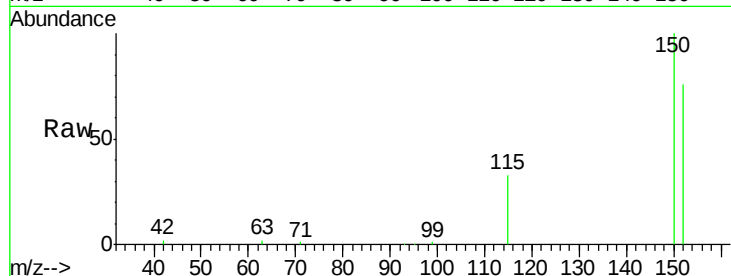
Acq: 31 Mar 2016 1:03

Instrument :

BNA_E

ClientSampleId :

PB89278BS



Tgt Ion: 152 Resp: 38521

Ion Ratio Lower Upper

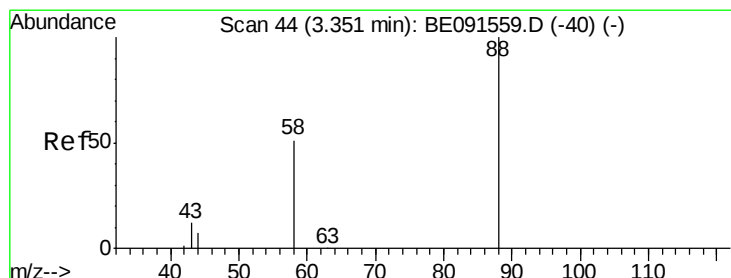
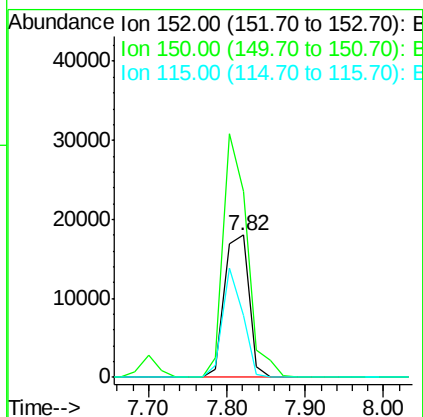
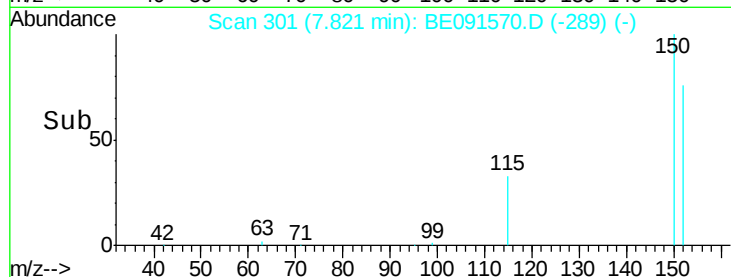
152 100

150 131.4 122.2 183.2

115 43.3 45.9 68.9#

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#2

1,4-Dioxane

Concen: 3.64 ng

RT: 3.35 min Scan# 44

Delta R.T. -0.01 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

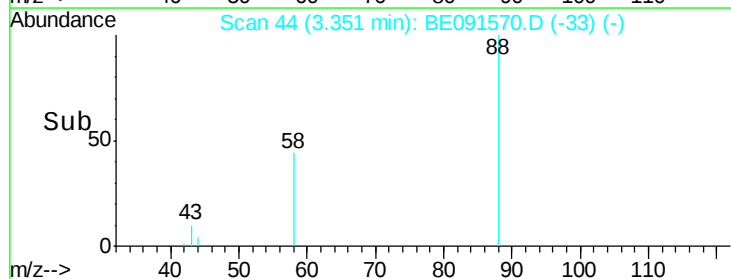
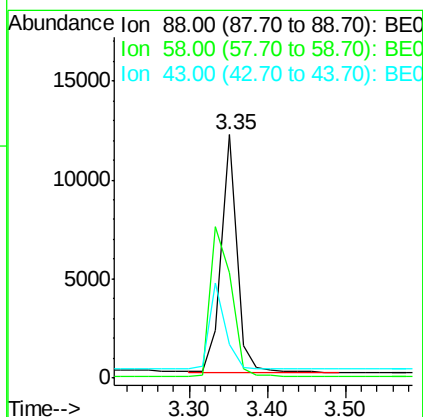
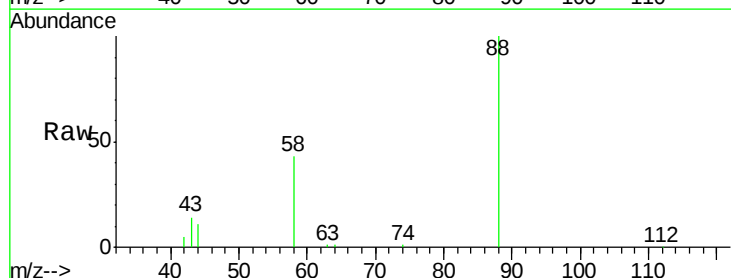
Tgt Ion: 88 Resp: 16532

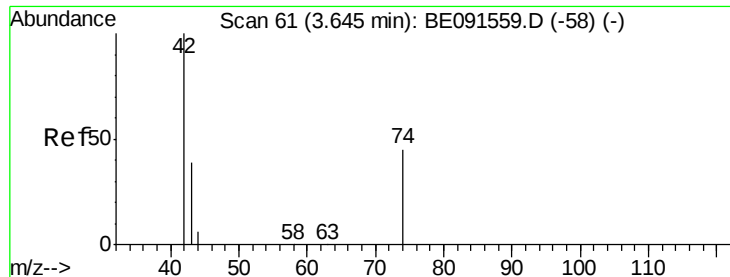
Ion Ratio Lower Upper

88 100

58 84.6 61.0 91.6

43 37.6 25.4 38.2





#3

n-Nitrosodimethylamine

Concen: 3.68 ng

RT: 3.65 min Scan# 61

Delta R.T. -0.03 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

Instrument :

BNA_E

ClientSampleId :

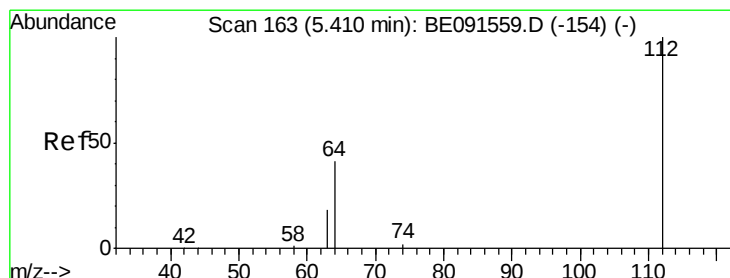
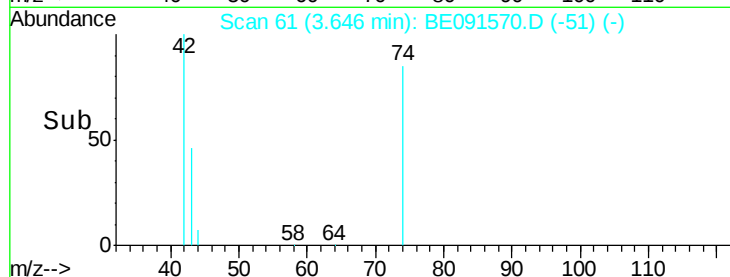
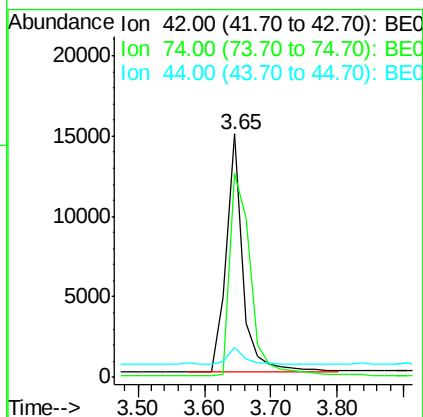
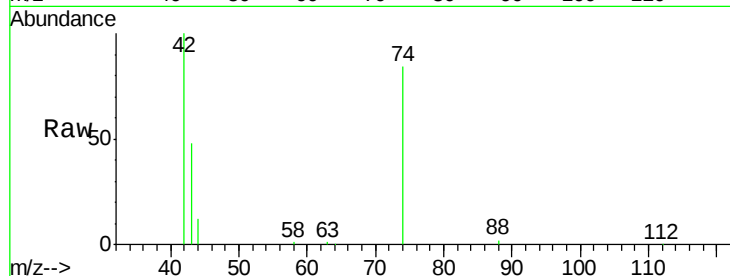
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Tgt Ion:	42	Resp:	25740
Ion	Ratio	Lower	Upper
42	100		
74	107.2	84.3	126.5
44	6.2	6.7	10.1#



#4

2-Fluorophenol

Concen: 6.70 ng

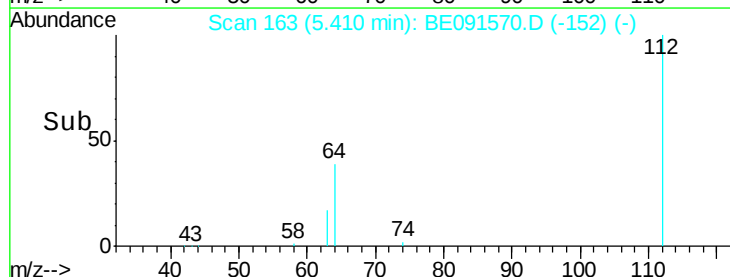
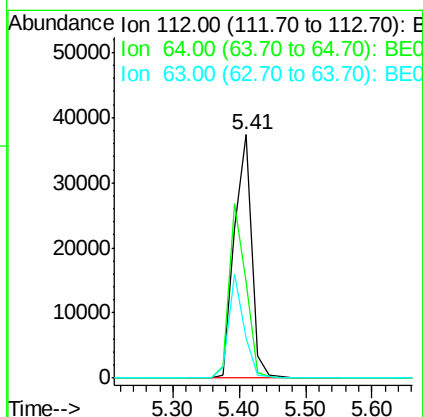
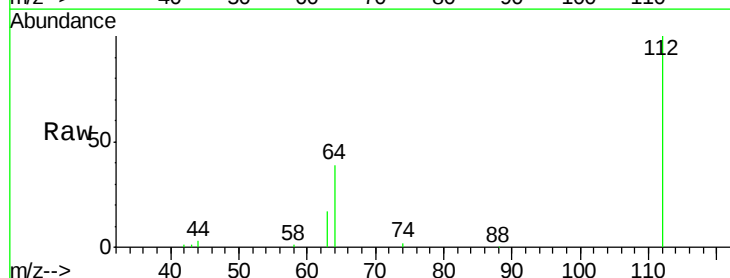
RT: 5.41 min Scan# 163

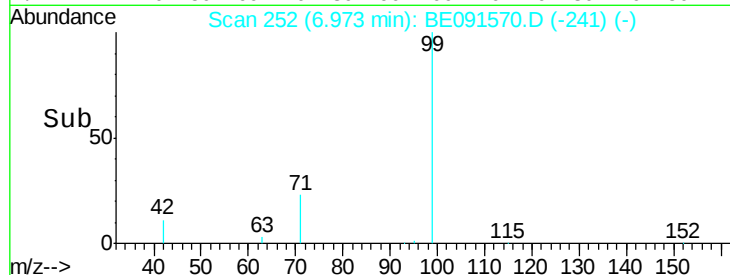
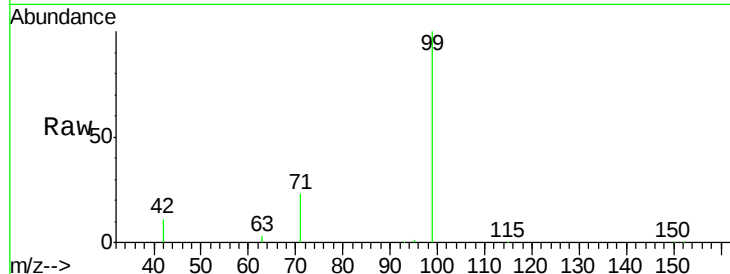
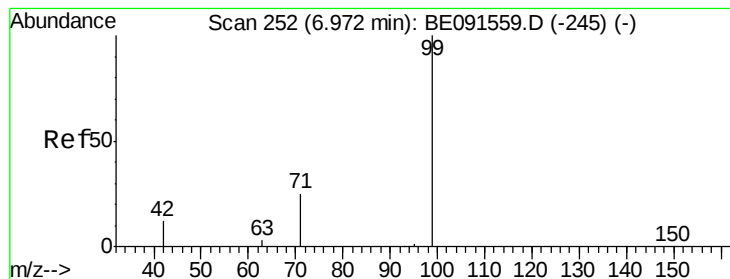
Delta R.T. -0.01 min

Lab File: BE091570.D

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Tgt Ion:	112	Resp:	67542
Ion	Ratio	Lower	Upper
112	100		
64	68.3	53.3	79.9
63	37.0	29.8	44.8





#5

Phenol-d6

Concen: 7.20 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	98201		
42	25.6	20.6	30.8	
71	35.8	29.0	43.4	

Instrument :

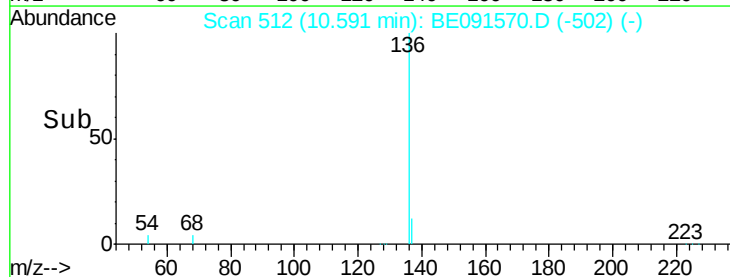
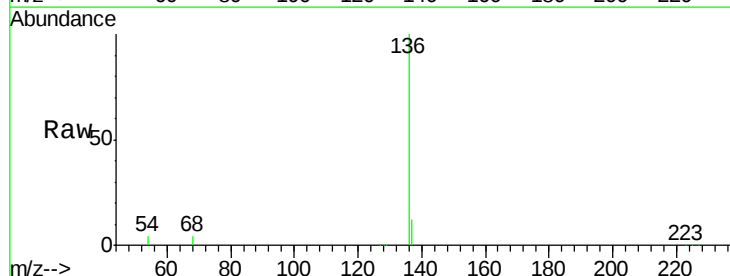
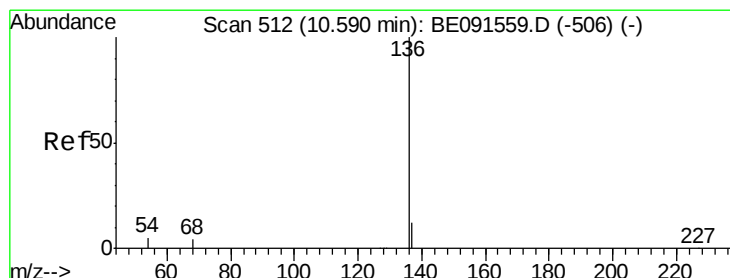
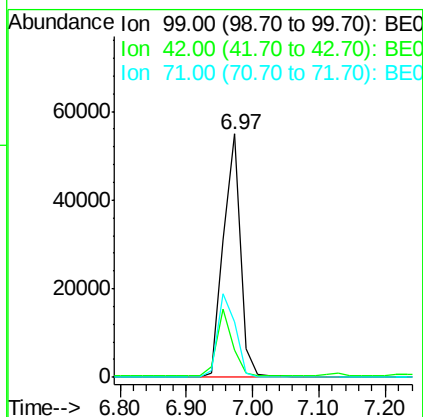
BNA_E

ClientSampleId :

PB89278BS

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#6

Naphthalene-d8

Concen: 5.00 ng

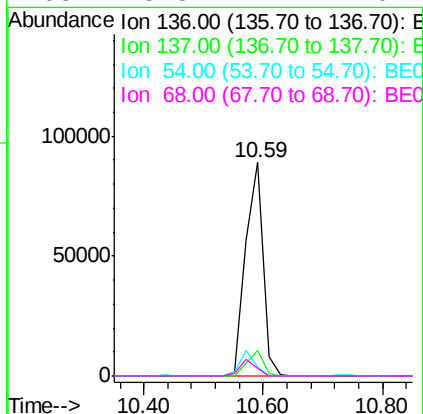
RT: 10.59 min Scan# 512

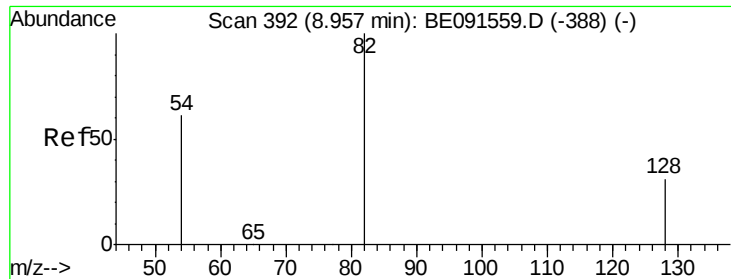
Delta R.T. -0.00 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	179546		
137	11.9	8.8	13.2	
54	4.4	5.2	7.8#	
68	3.8	4.1	6.1#	





#7

Nitrobenzene-d5

Concen: 3.78 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

Instrument :

BNA_E

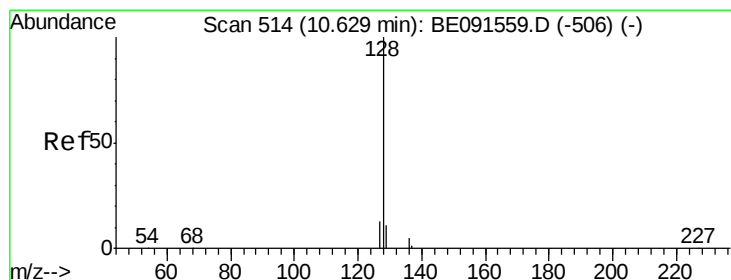
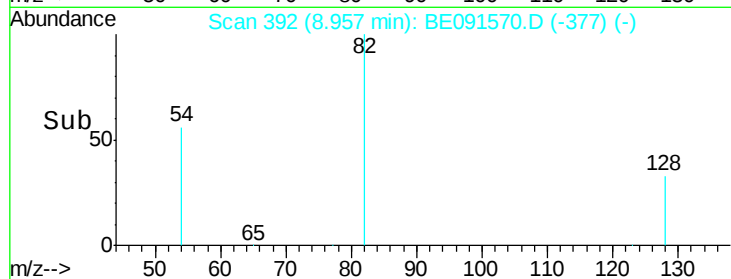
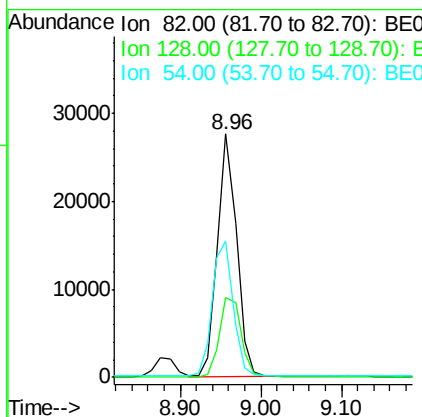
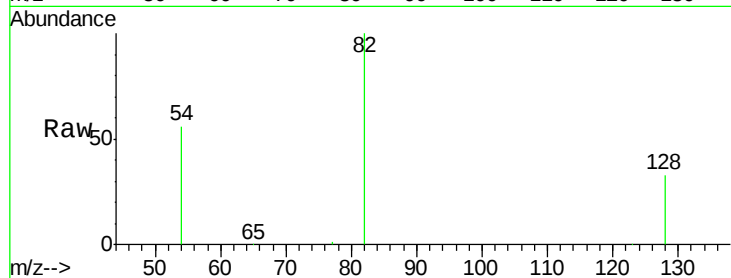
ClientSampleId :

PB89278BS

Tgt Ion:	82	Resp:	45584
Ion Ratio	Lower	Upper	
82	100		
128	32.7	23.5	35.3
54	55.9	52.4	78.6

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#8

Naphthalene

Concen: 3.85 ng

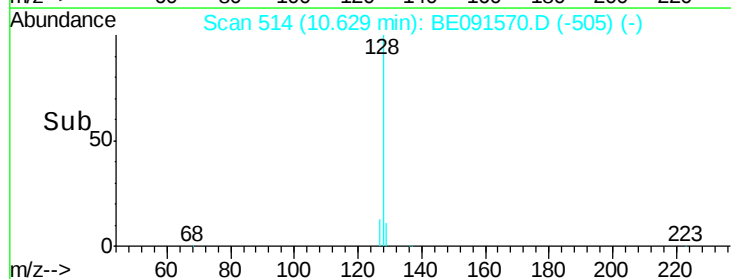
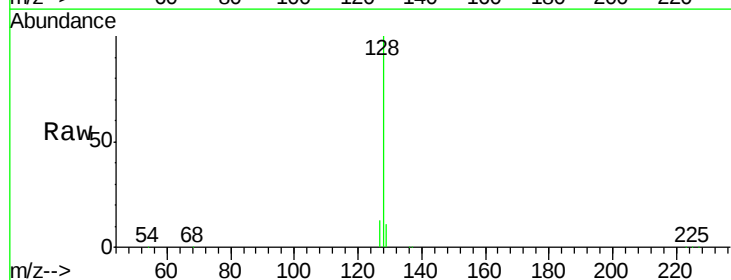
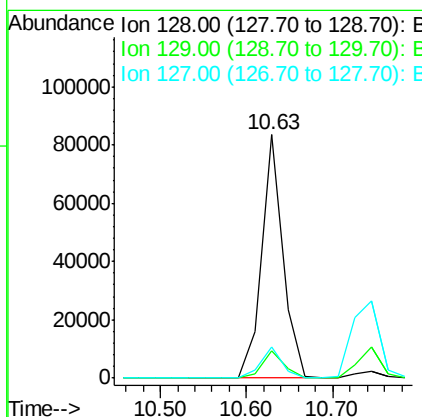
RT: 10.63 min Scan# 514

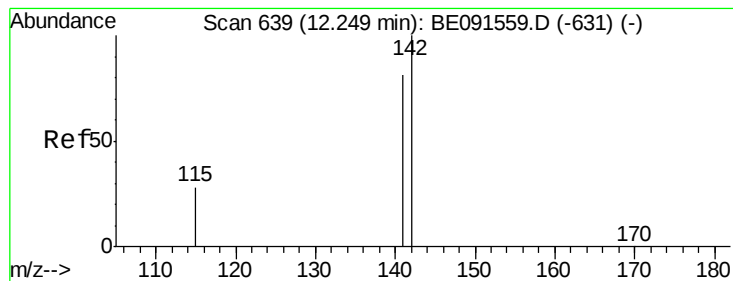
Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

Tgt Ion:	128	Resp:	142710
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.2	12.2
127	13.1	11.8	17.8





#9

2-Methylnaphthalene

Concen: 4.31 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

Instrument :

BNA_E

ClientSampleId :

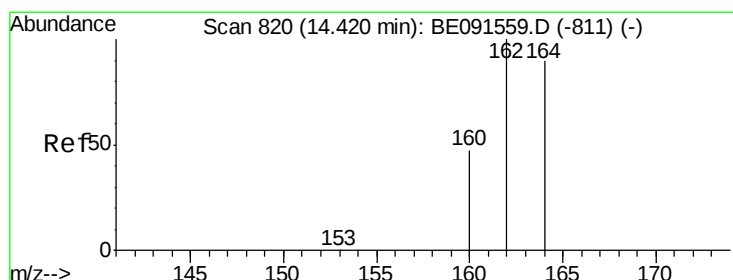
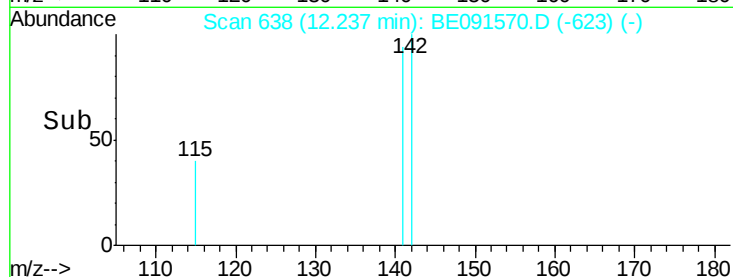
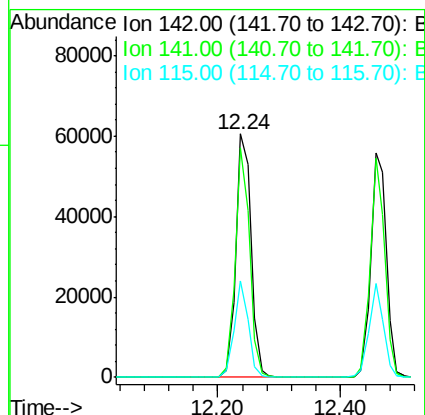
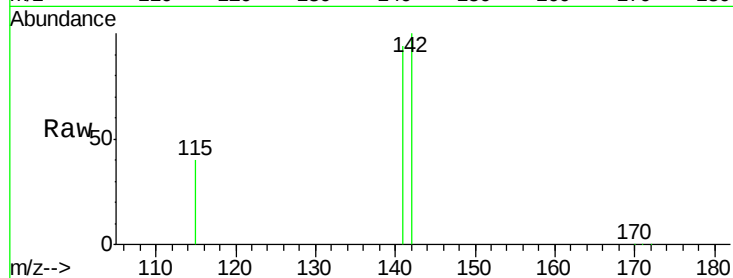
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Tgt Ion:	142	Resp:	104439
Ion Ratio	Lower	Upper	
142	100		
141	94.3	66.9	100.3
115	39.8	25.1	37.7#



#10

Acenaphthene-d10

Concen: 5.00 ng

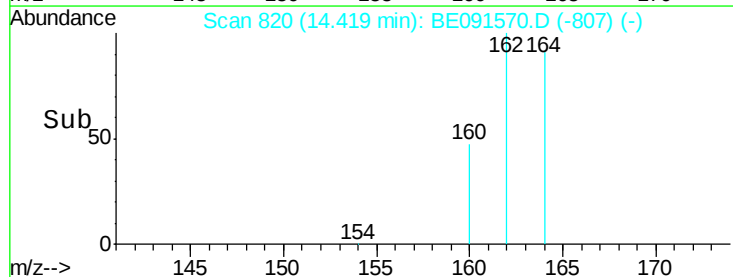
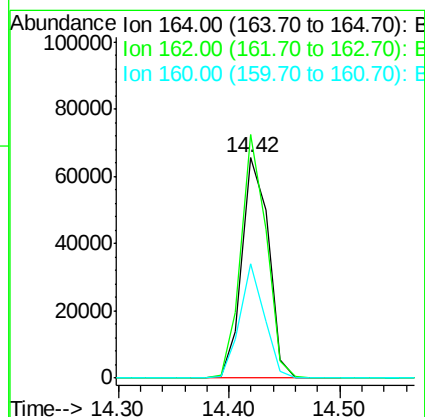
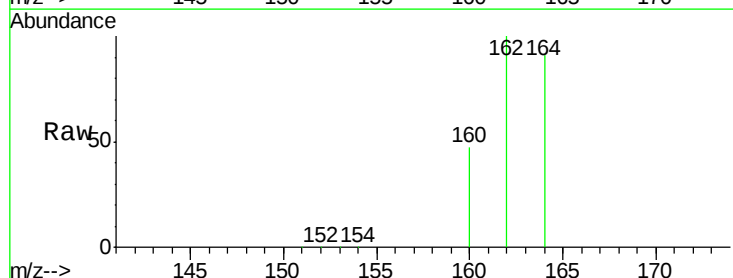
RT: 14.42 min Scan# 820

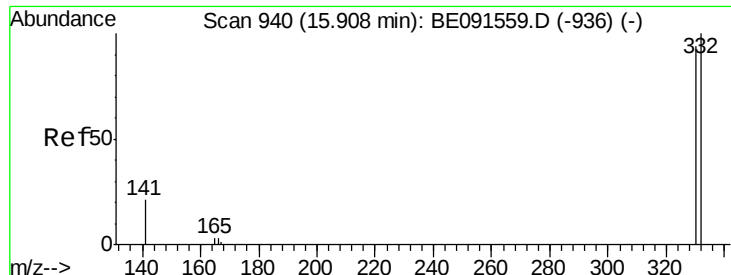
Delta R.T. -0.03 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

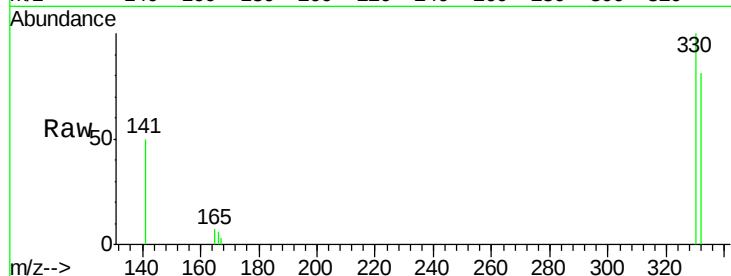
Tgt Ion:	164	Resp:	109461
Ion Ratio	Lower	Upper	
164	100		
162	110.4	84.4	126.6
160	51.9	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.88 ng
 RT: 15.90 min Scan# 939
 Delta R.T. -0.02 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 1:03

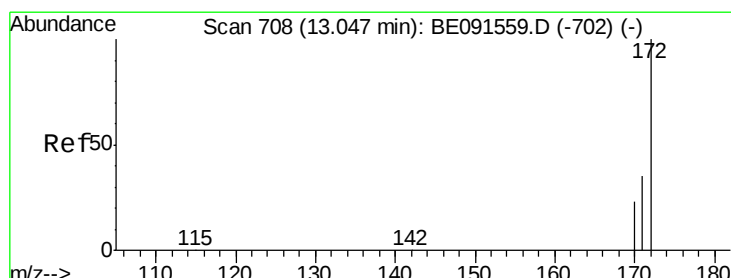
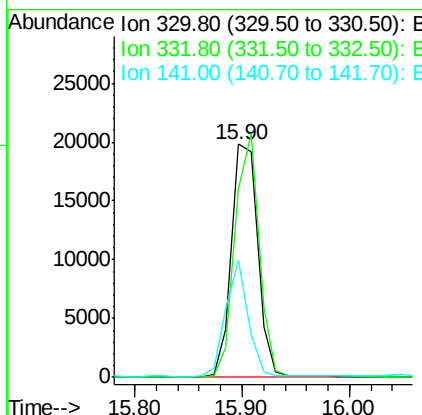
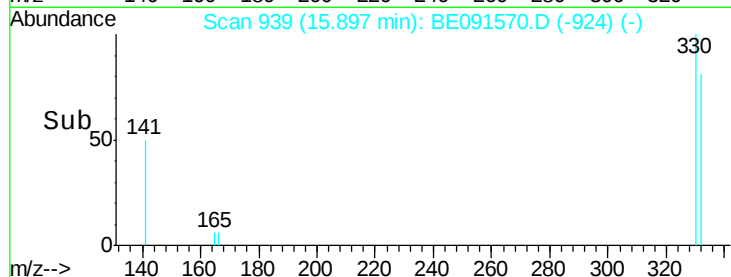
Instrument :
 BNA_E
 ClientSampled :
 PB89278BS



Tgt Ion: 330 Resp: 33369
 Ion Ratio Lower Upper
 330 100
 332 95.9 79.2 118.8
 141 42.8 28.1 42.1#

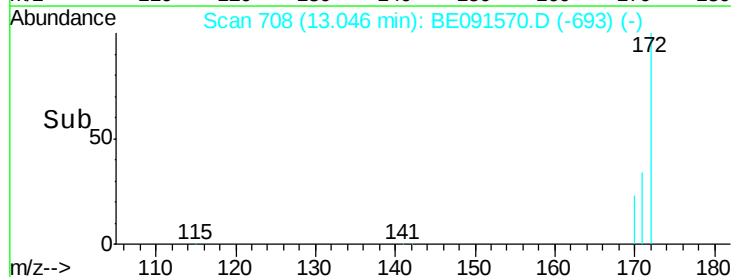
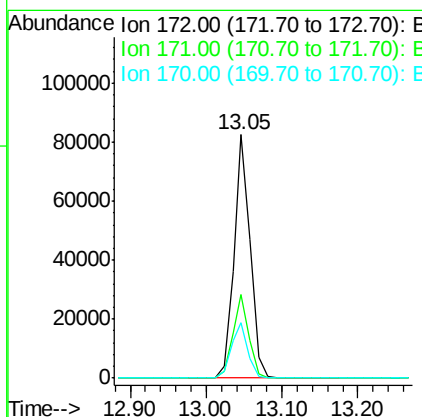
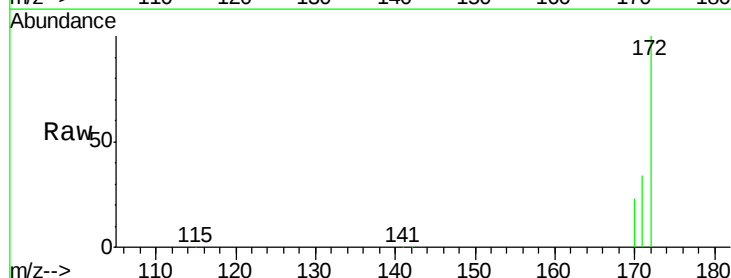
Manual Integrations
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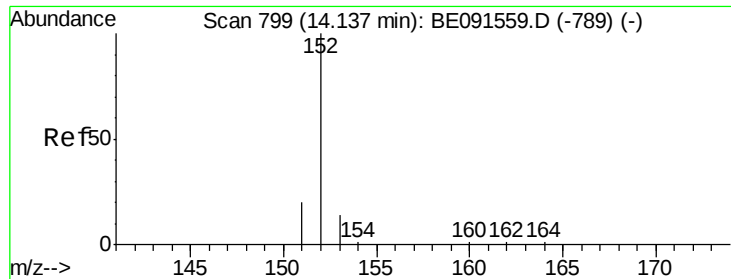
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#12
 2-Fluorobiphenyl
 Concen: 3.95 ng
 RT: 13.05 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 1:03

Tgt Ion: 172 Resp: 123009
 Ion Ratio Lower Upper
 172 100
 171 34.5 29.8 44.8
 170 22.8 21.4 32.2





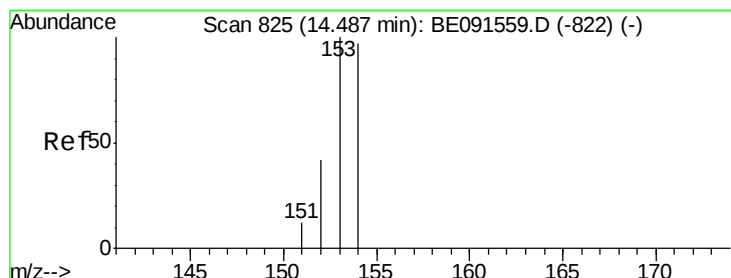
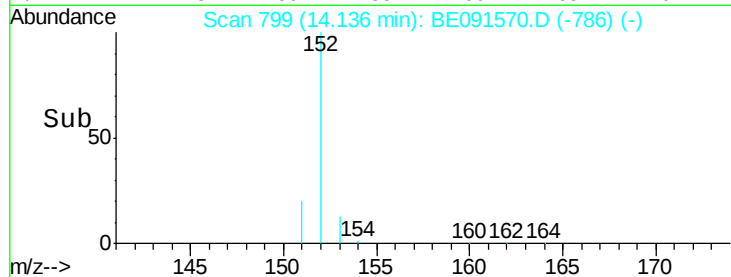
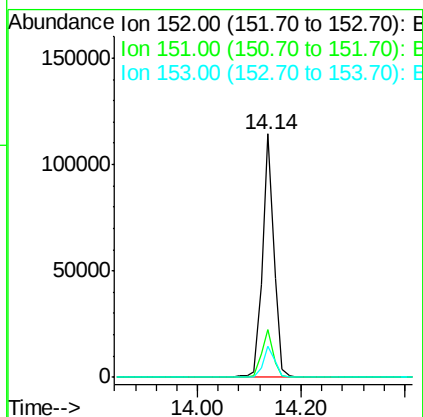
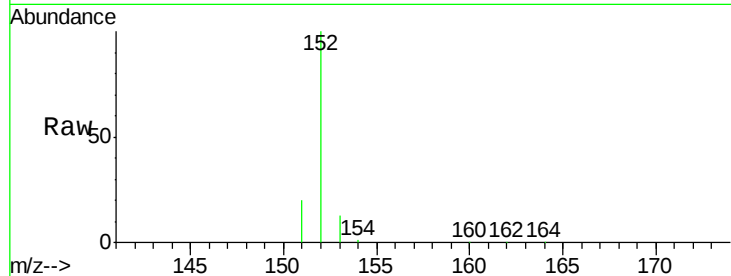
#13
Acenaphthylene
Concen: 4.23 ng
RT: 14.14 min Scan# 799
Delta R.T. -0.01 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Instrument :
BNA_E
ClientSampleId :
PB89278BS

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	18.2	16.3	24.5
153	13.5	11.1	16.7

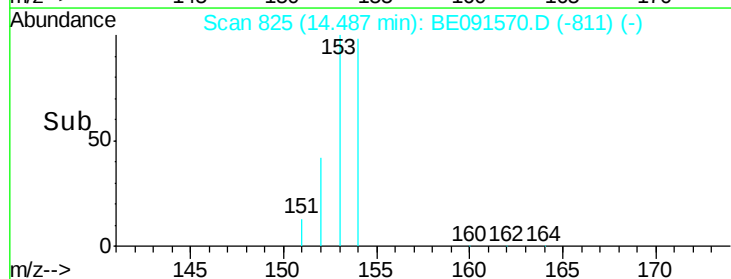
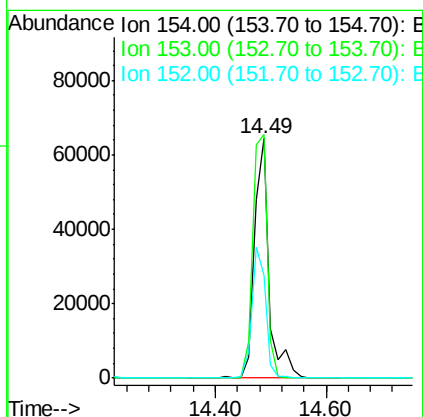
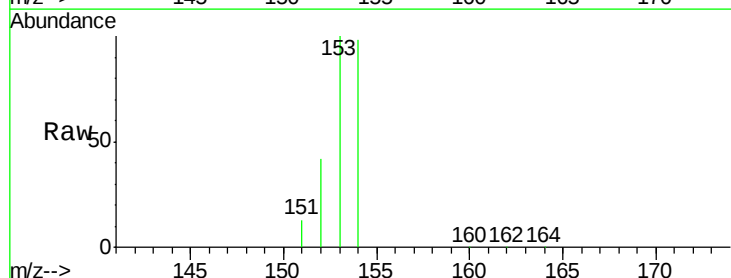
Manual Integrations
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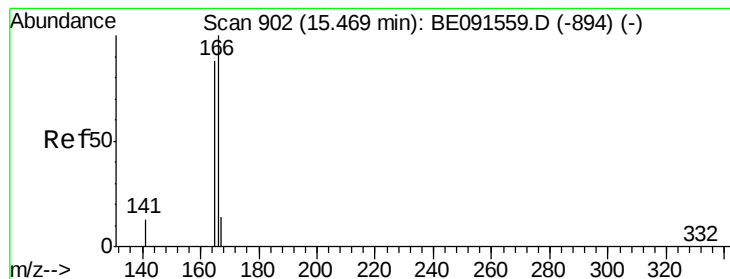
Sohil
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#14
Acenaphthene
Concen: 4.41 ng
RT: 14.49 min Scan# 825
Delta R.T. -0.01 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	100.8	87.3	130.9
152	49.8	42.9	64.3





#15

Fluorene

Concen: 4.18 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

Instrument :

BNA_E

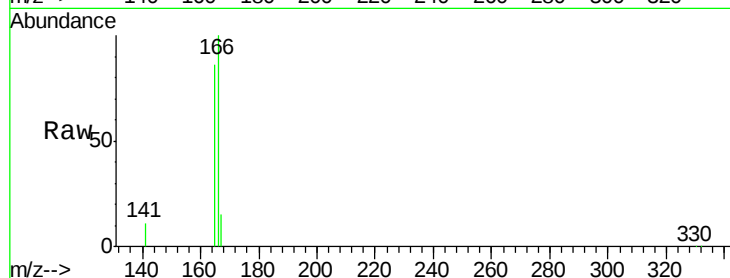
ClientSampleId :

PB89278BS

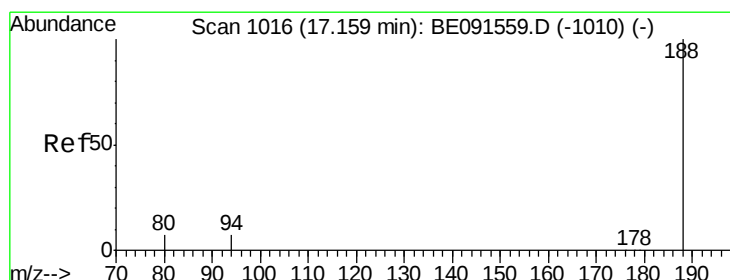
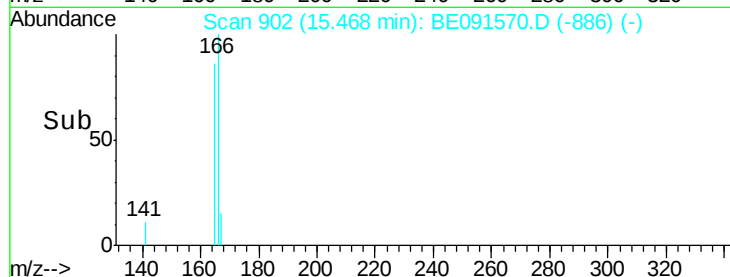
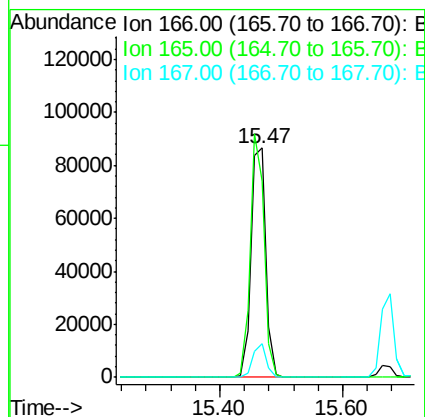
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Tgt	Ion	Resp	Lower	Upper
166	100			
165	98.9	79.2	118.8	
167	13.5	10.8	16.2	



#16

Phenanthrene-d10

Concen: 5.00 ng

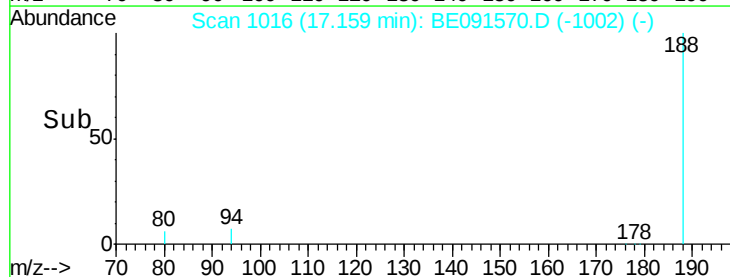
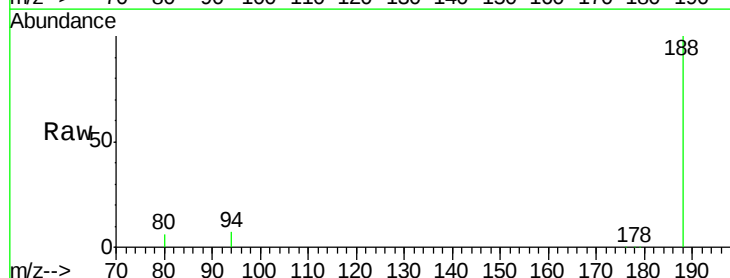
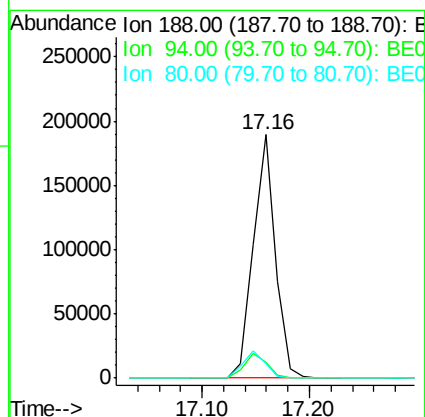
RT: 17.16 min Scan# 1016

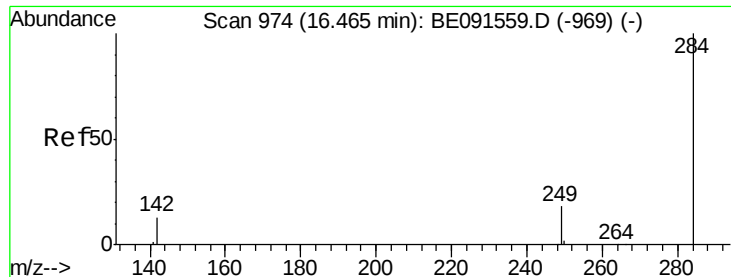
Delta R.T. -0.01 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

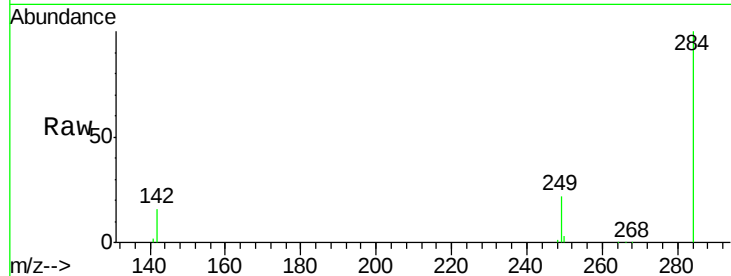
Tgt	Ion	Resp	Lower	Upper
188	100			
94	6.5	5.4	8.2	
80	5.9	5.0	7.4	





#17
Hexachlorobenzene
Concen: 4.16 ng
RT: 16.46 min Scan# 973
Delta R.T. -0.02 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

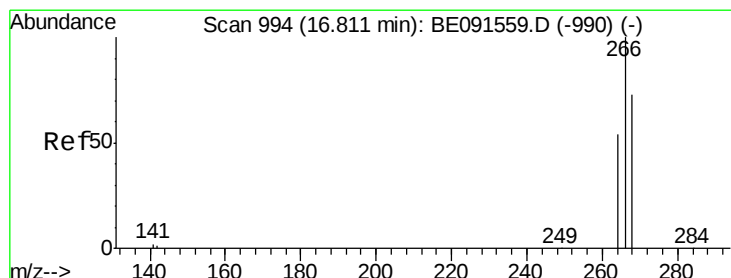
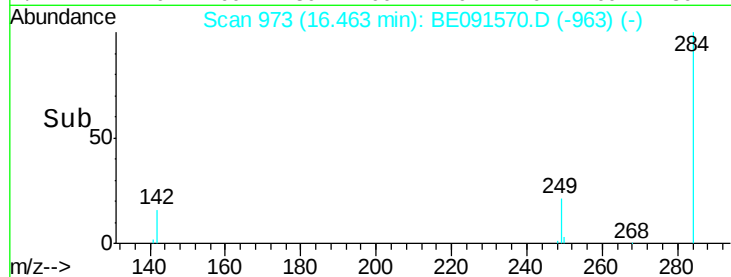
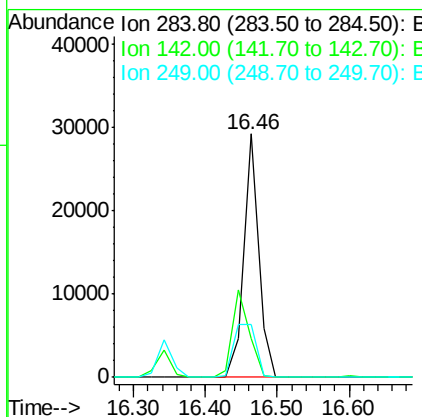
Instrument :
BNA_E
ClientSampleId :
PB89278BS



Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	40.0	31.0	46.4
249	32.5	25.8	38.8

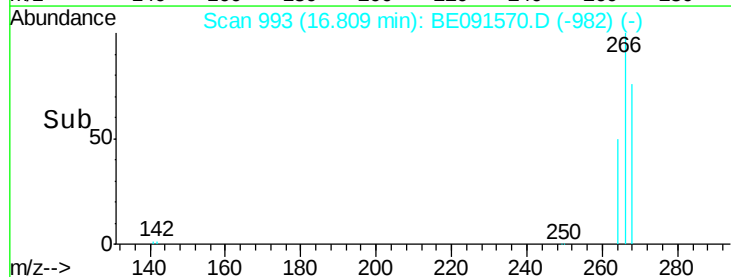
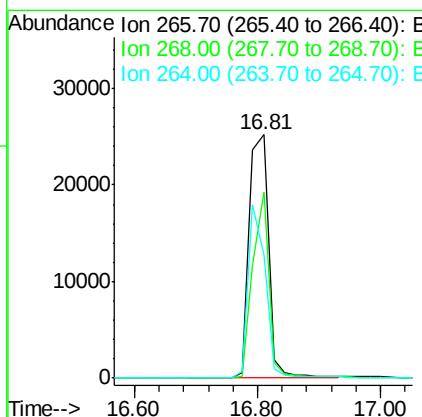
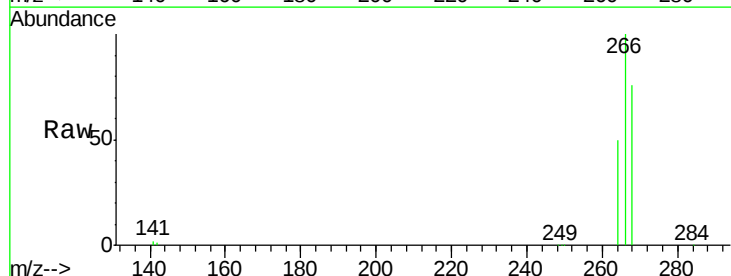
Manual Integrations
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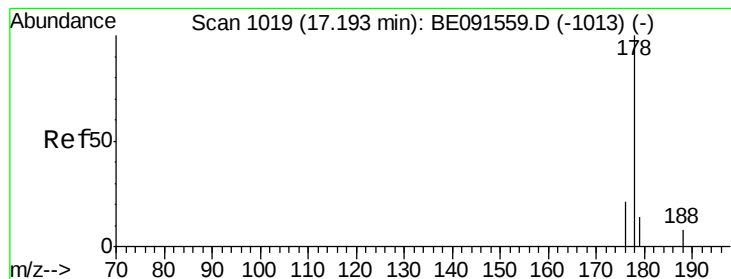
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#18
Pentachlorophenol
Concen: 9.78 ng
RT: 16.81 min Scan# 993
Delta R.T. -0.02 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
266	100		
268	76.2	48.2	72.2#
264	50.5	52.1	78.1#





#19

Phenanthrene

Concen: 4.19 ng

RT: 17.19 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BE091570.D

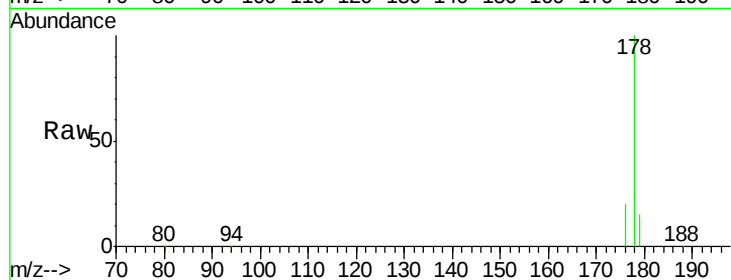
Acq: 31 Mar 2016 1:03

Instrument :

BNA_E

ClientSampleId :

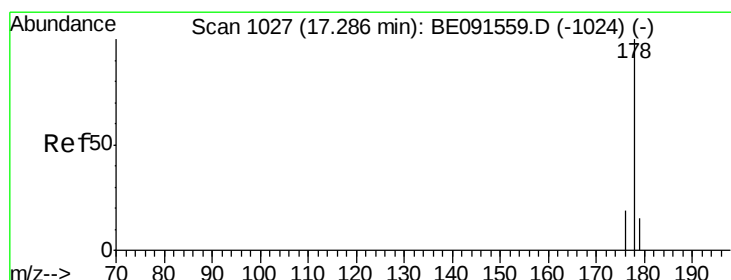
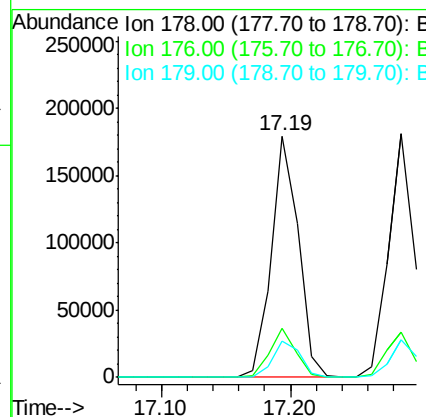
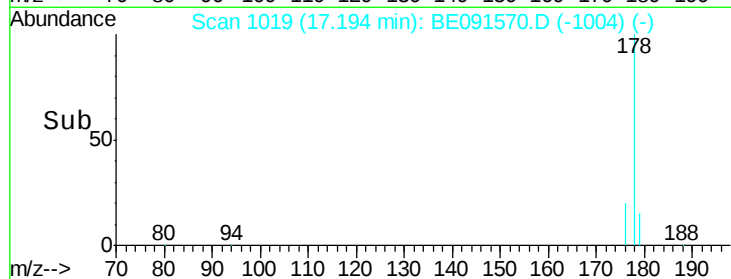
PB89278BS



Tgt Ion:	178	Resp:	264558
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.5	23.3
179	15.5	13.1	19.7

Manual Integrations
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#20

Anthracene

Concen: 4.40 ng

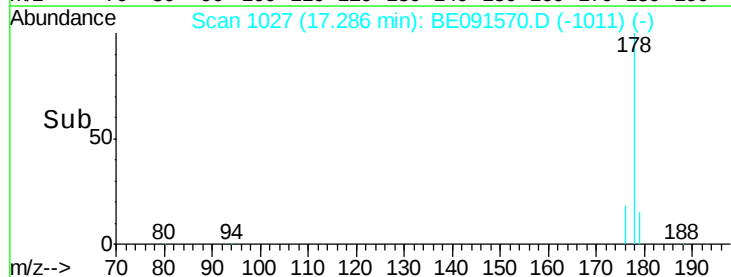
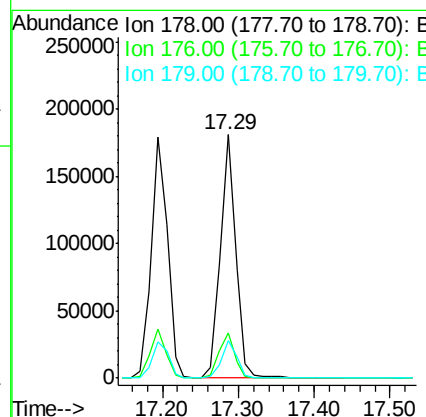
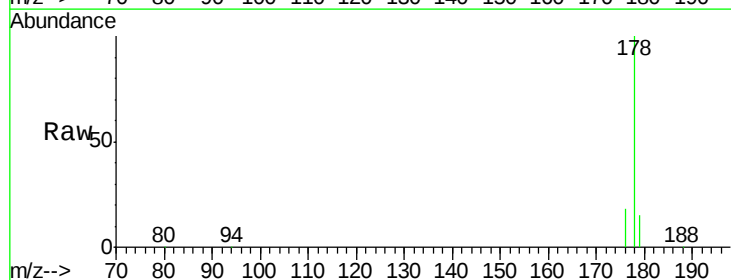
RT: 17.29 min Scan# 1027

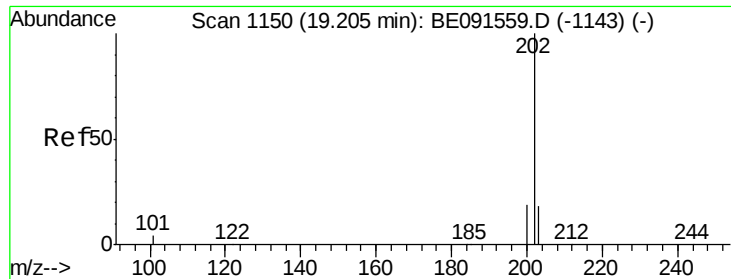
Delta R.T. -0.01 min

Lab File: BE091570.D

Acq: 31 Mar 2016 1:03

Tgt Ion:	178	Resp:	256420
Ion Ratio	Lower	Upper	
178	100		
176	18.8	14.9	22.3
179	15.3	12.2	18.4





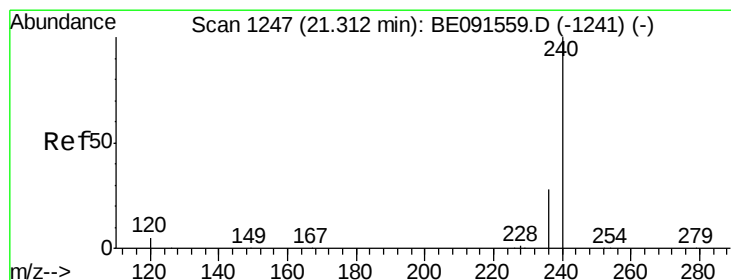
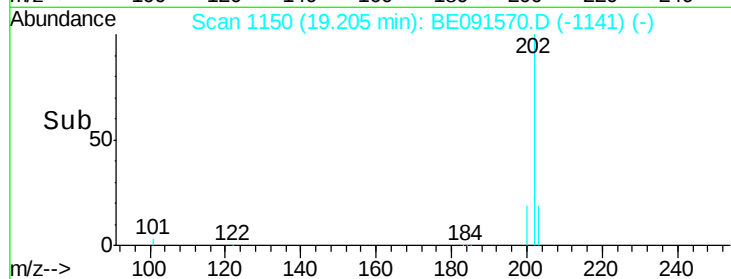
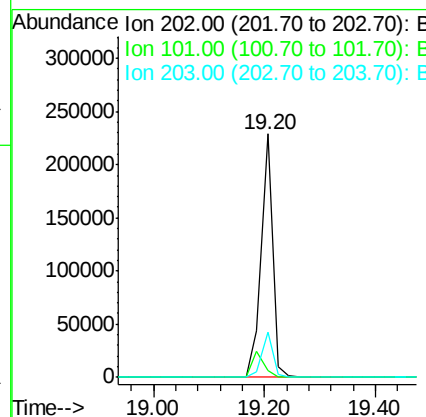
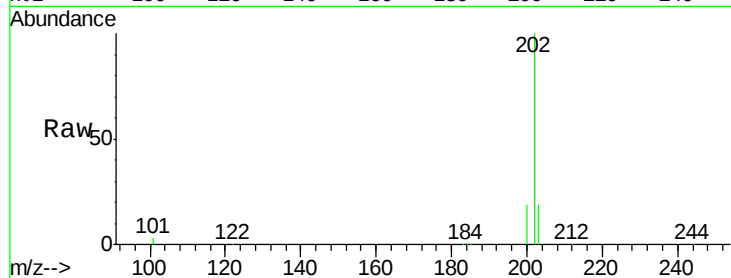
#21
 Fluoranthene
 Concen: 4.42 ng
 RT: 19.20 min Scan# 1150
 Delta R.T. -0.02 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 1:03

Instrument :
 BNA_E
 ClientSampleId :
 PB89278BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	11.2	8.3	12.5
203	18.1	13.9	20.9

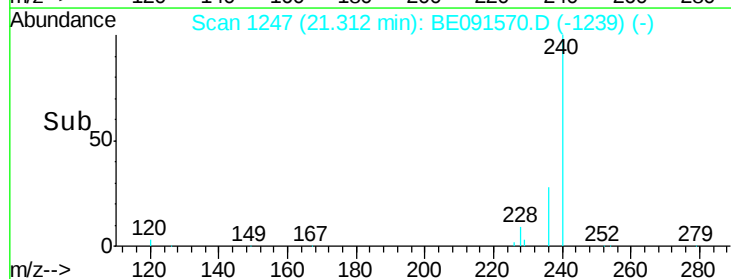
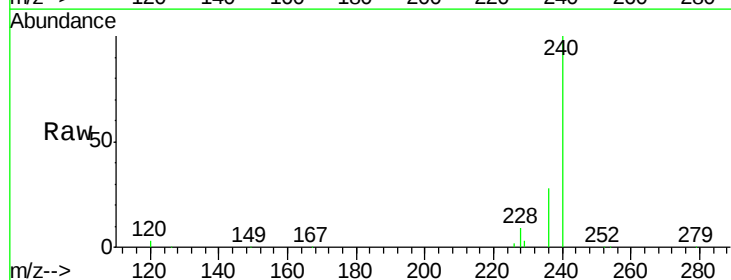
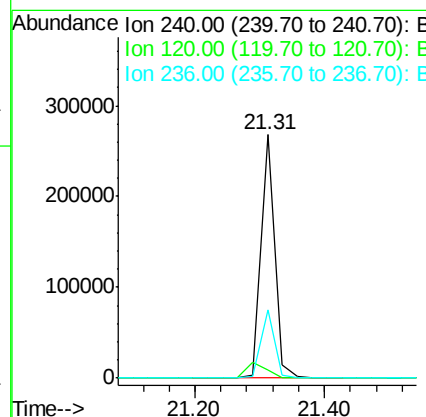
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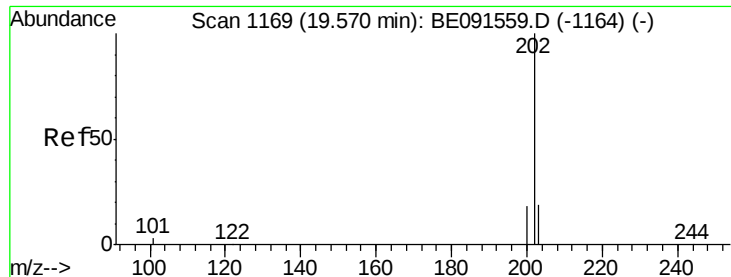
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#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.31 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	3.4	4.0	6.0#
236	27.9	23.0	34.4





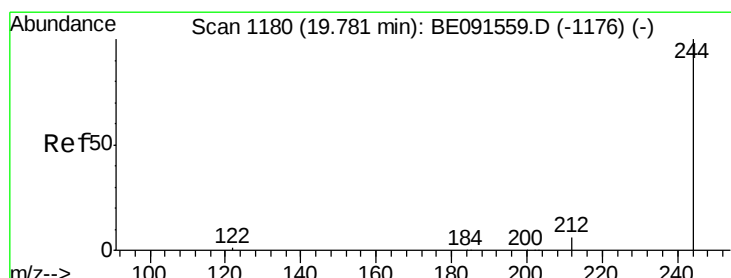
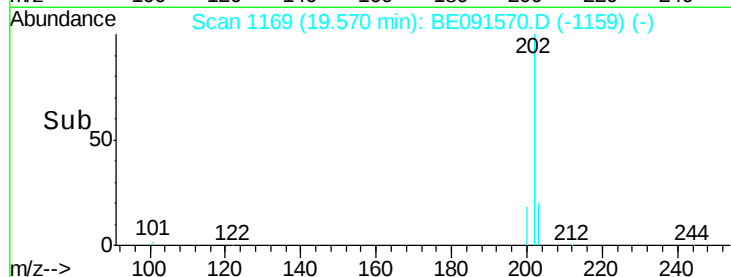
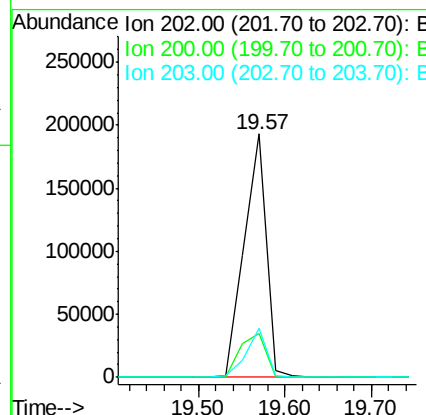
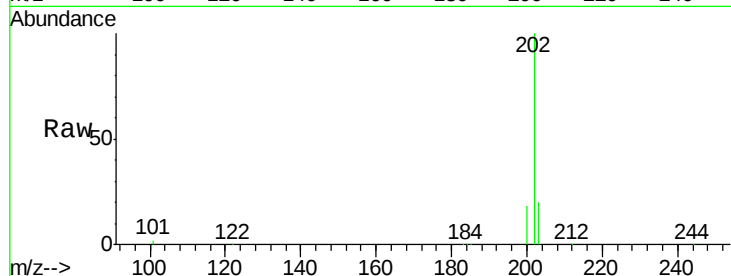
#23
 Pyrene
 Concen: 4.20 ng
 RT: 19.57 min Scan# 1169
 Delta R.T. -0.00 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 1:03

Instrument :
 BNA_E
 ClientSampleId :
 PB89278BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.1	16.4	24.6
203	18.3	14.6	21.8

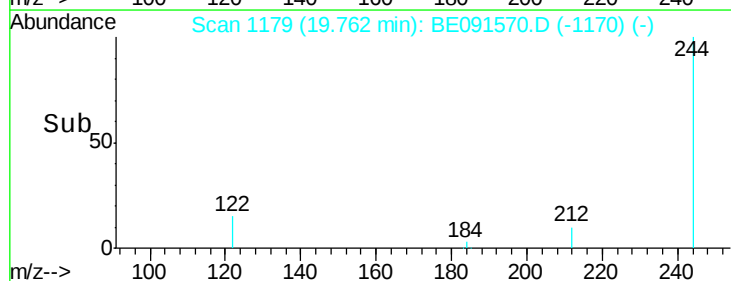
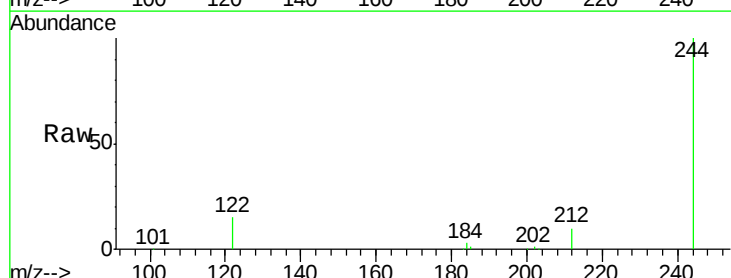
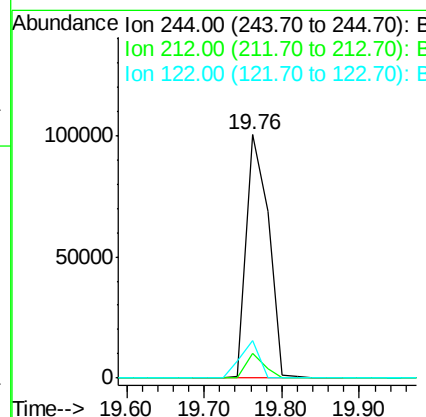
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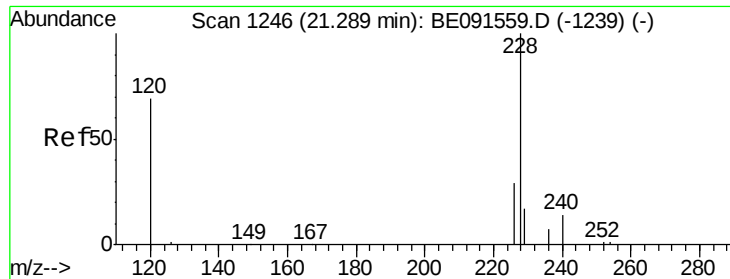
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#24
 Terphenyl-d14
 Concen: 3.89 ng
 RT: 19.76 min Scan# 1179
 Delta R.T. -0.02 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	10.1	5.8	8.8#
122	15.4	1.8	2.8#





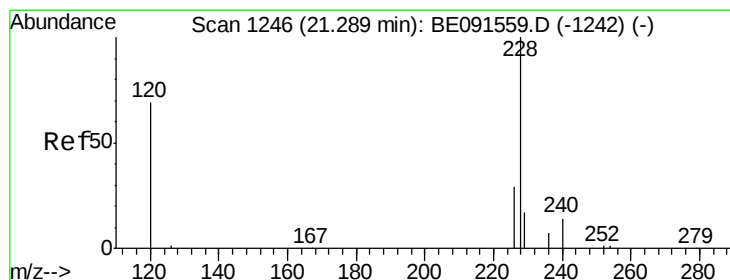
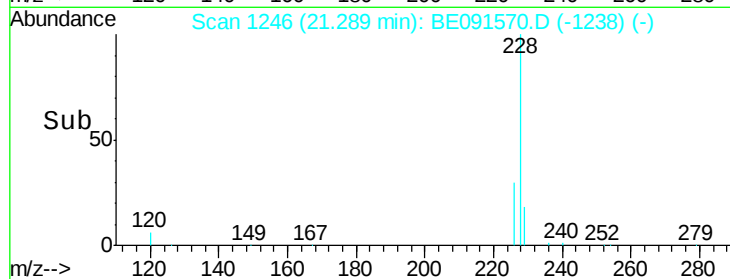
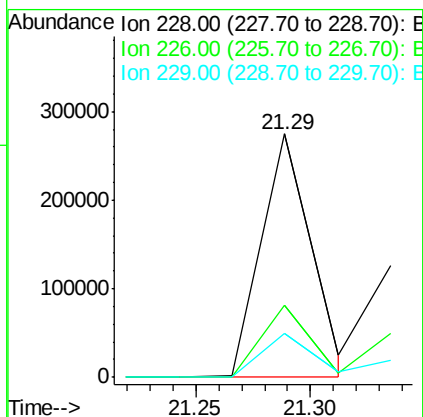
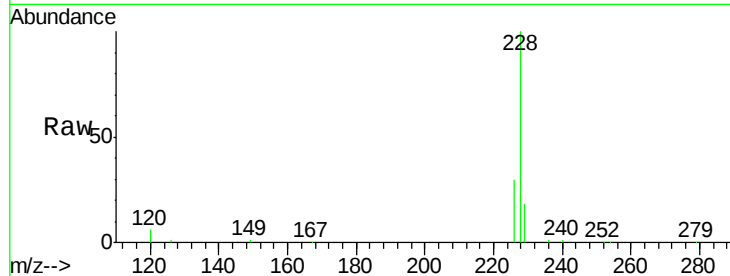
#25
Benzo(a)anthracene
Concen: 4.42 ng m
RT: 21.29 min Scan# 1246
Delta R.T. -0.02 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Instrument :
BNA_E
ClientSampleId :
PB89278BS

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.0	36.0
229	18.1	13.8	20.6

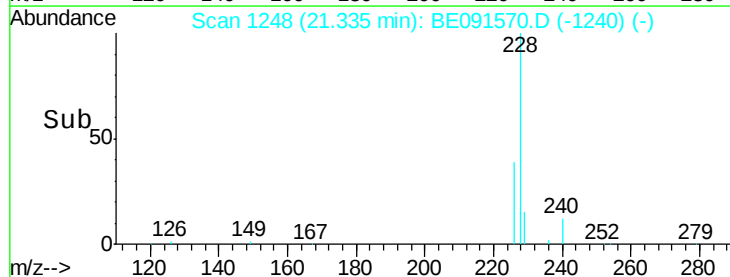
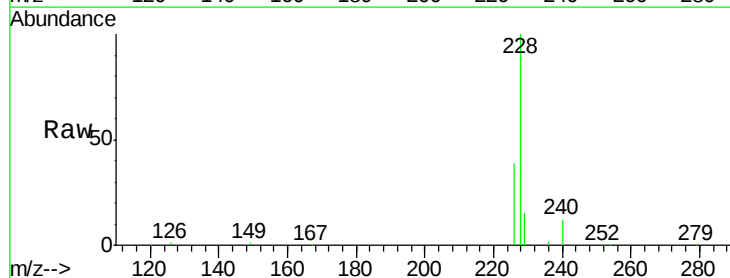
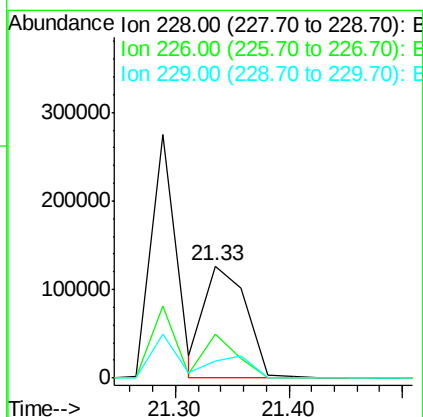
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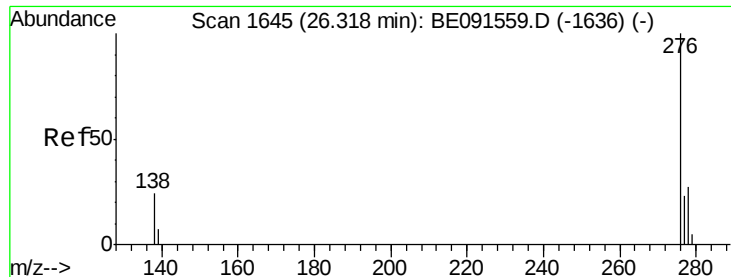
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#26
Chrysene
Concen: 4.03 ng m
RT: 21.33 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.9	18.9	28.3#
229	15.4	19.1	28.7#





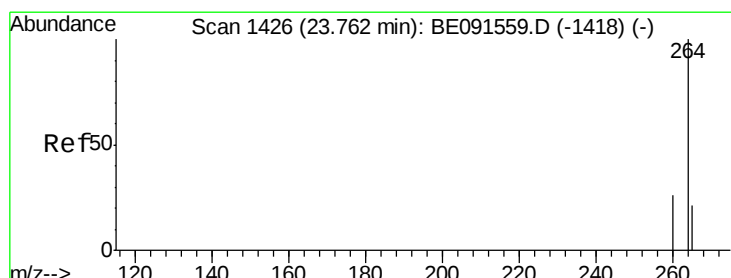
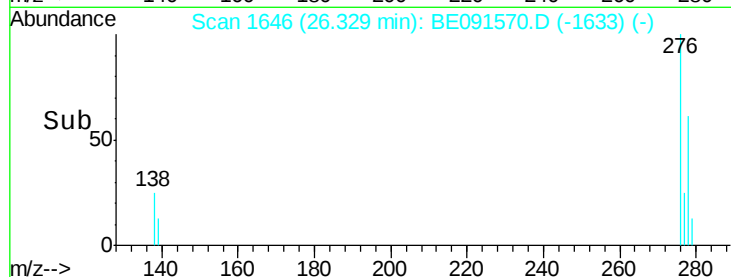
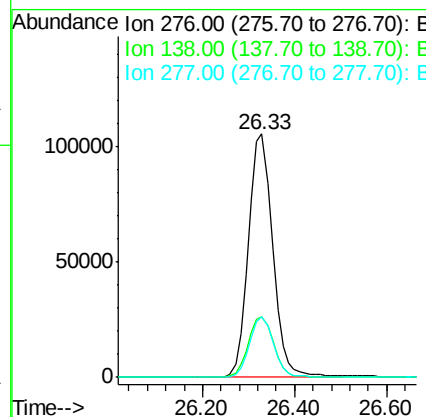
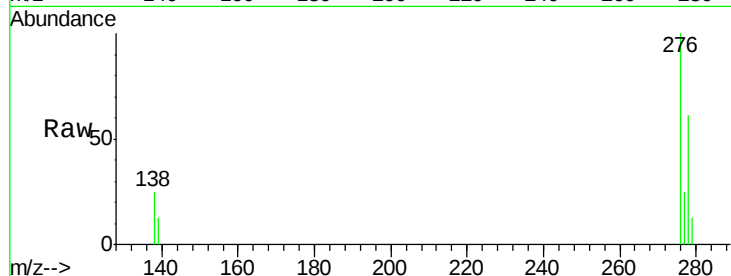
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 4.17 ng
 RT: 26.33 min Scan# 1646
 Delta R.T. -0.05 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 1:03

Instrument :
 BNA_E
 ClientSampleId :
 PB89278BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.1	20.2	30.4
277	24.9	19.8	29.8

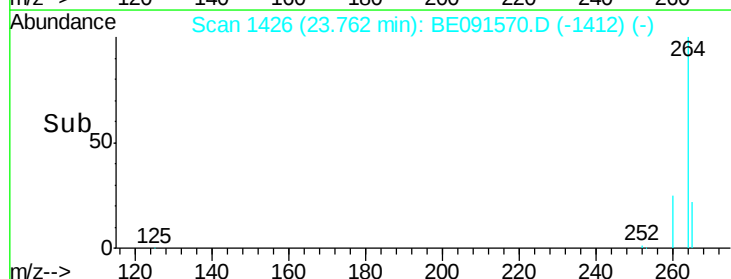
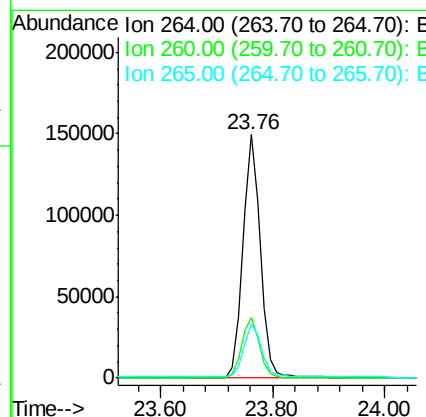
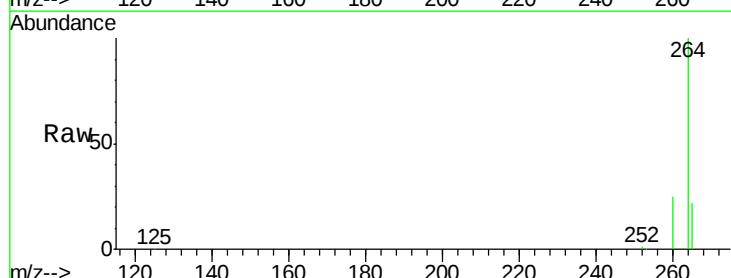
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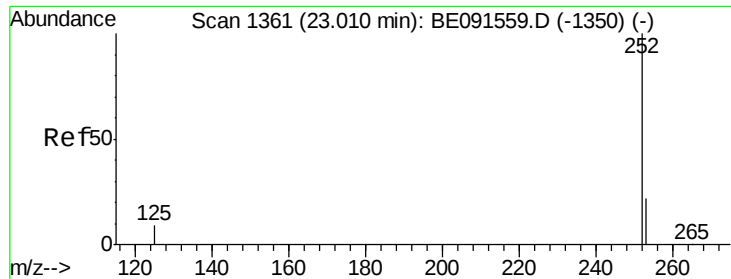
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#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1426
 Delta R.T. -0.03 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 1:03

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





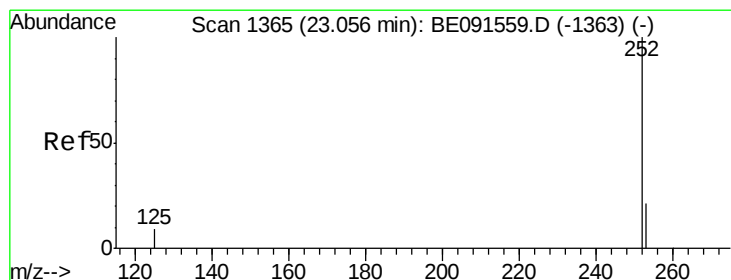
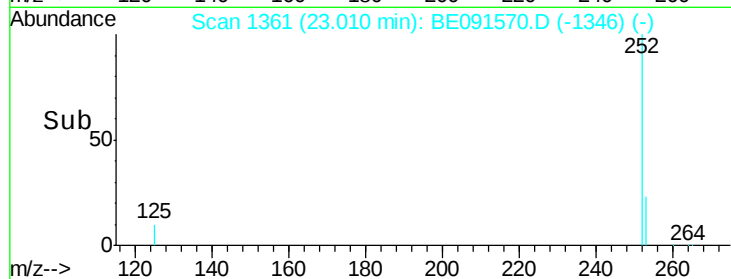
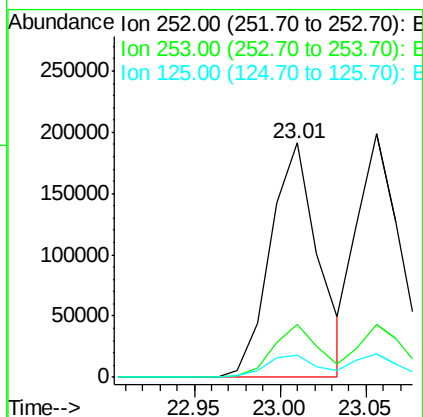
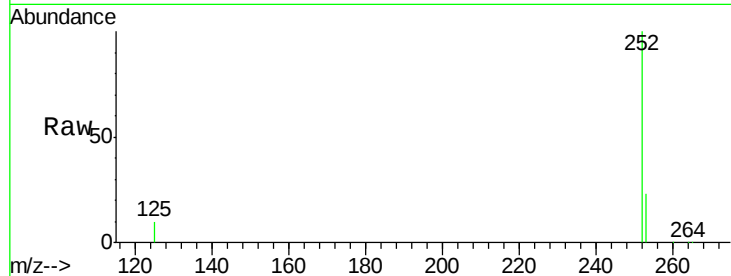
#29
Benzo(b)fluoranthene
Concen: 4.65 ng m
RT: 23.01 min Scan# 1361
Delta R.T. -0.02 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Instrument :
BNA_E
ClientSampleId :
PB89278BS

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.7	28.1
125	9.7	9.8	14.6

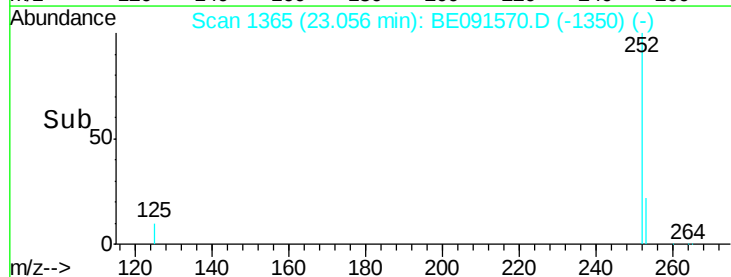
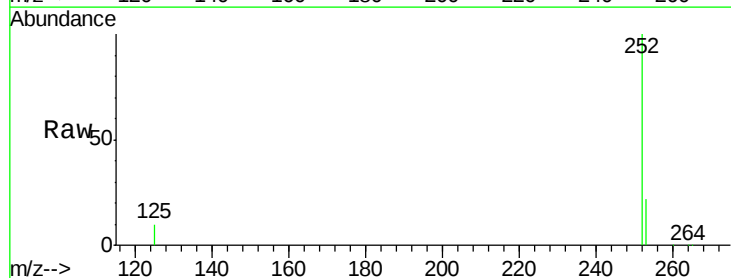
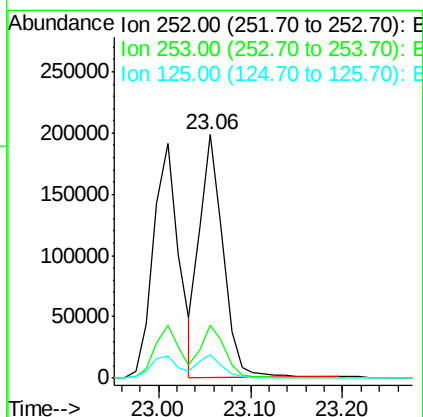
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#30
Benzo(k)fluoranthene
Concen: 4.52 ng
RT: 23.06 min Scan# 1365
Delta R.T. -0.02 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.2	30.4
125	9.8	9.4	14.2





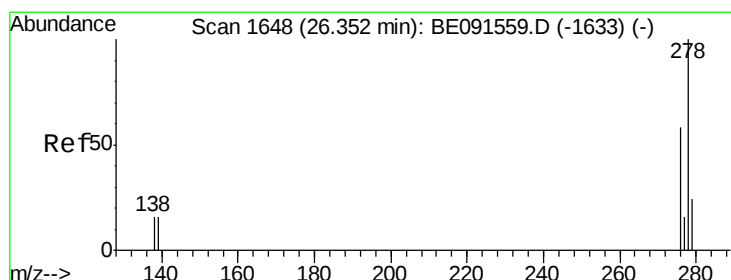
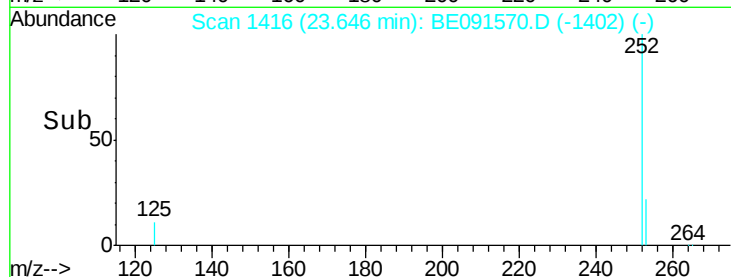
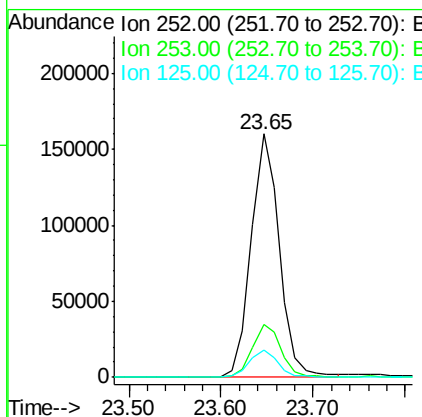
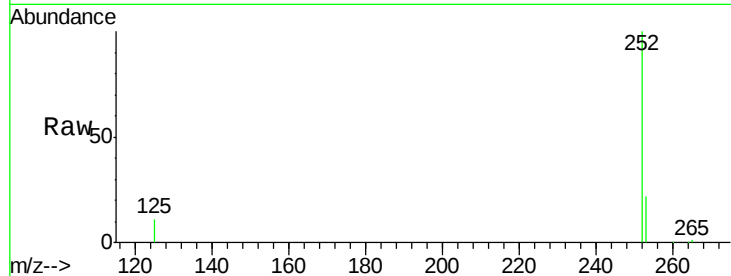
#31
Benzo(a)pyrene
Concen: 4.68 ng
RT: 23.65 min Scan# 1416
Delta R.T. -0.03 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Instrument :
BNA_E
ClientSampleId :
PB89278BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	21.6	19.4	29.0
125	11.3	11.4	17.2

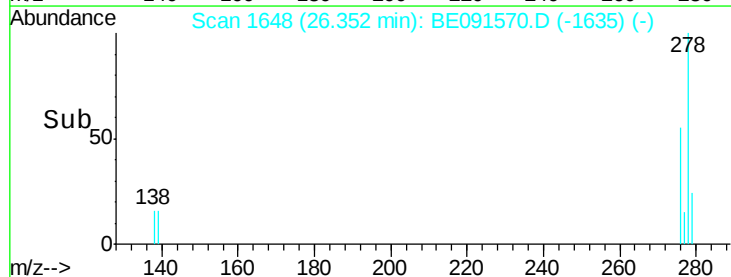
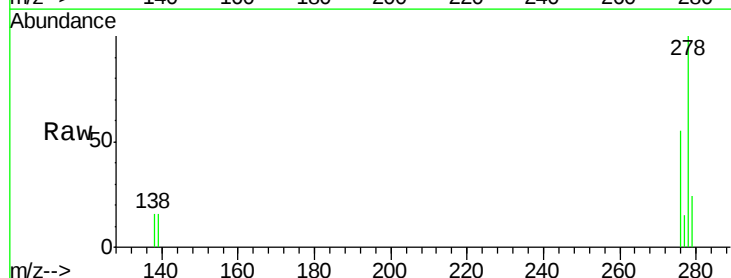
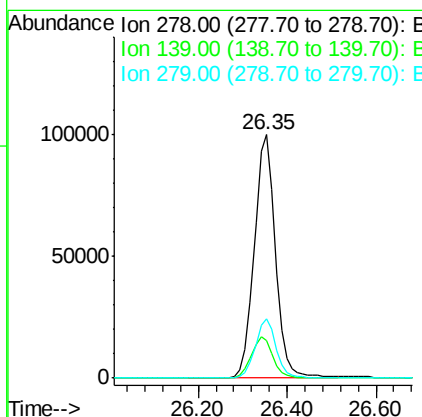
Manual Integrations
APPROVED

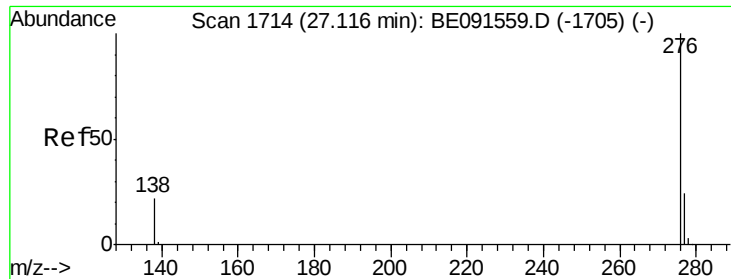
Sohil
3/31/2016 4:56:30 PM



#32
Dibenzo(a,h)anthracene
Concen: 4.54 ng
RT: 26.35 min Scan# 1648
Delta R.T. -0.05 min
Lab File: BE091570.D
Acq: 31 Mar 2016 1:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	15.7	14.2	21.4
279	24.2	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 4.48 ng

RT: 27.12 min Scan# 1714

Delta R.T. -0.05 min

Lab File: BE091570.D

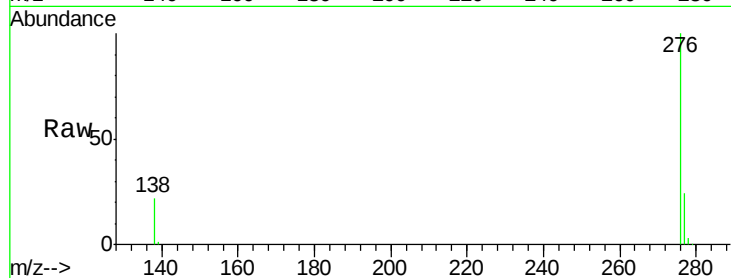
Acq: 31 Mar 2016 1:03

Instrument :

BNA_E

ClientSampleId :

PB89278BS



Tgt	Ion	276	Resp:	326316
Ion	Ratio	Lower	Upper	
276	100			
277	23.7	19.4	29.2	
138	22.4	18.2	27.4	

Manual Integrations
APPROVED

Sohil
3/31/2016 4:56:30 PM

