

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102116\
 Data File : BE092468.D
 Acq On : 21 Oct 2016 15:44
 Operator : UM/SJ
 Sample : PB94258BSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BSD

Manual Integrations
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Quant Time: Oct 21 17:29:22 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 21 17:26:45 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	10675	5.00	ng	0.00
7) Naphthalene-d8	10.95	136	45784	5.00	ng	0.00
12) Acenaphthene-d10	14.81	164	28555	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	49857	5.00	ng	0.00
24) Chrysene-d12	21.75	240	74221	5.00	ng	0.00
31) Perylene-d12	24.12	264	65252	5.00	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.67	112	20127	7.99	ng	-0.01
5) Phenol-d6	7.34	99	26185	7.29	ng	-0.02
8) Nitrobenzene-d5	9.34	82	13152	4.02	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	6616	6.57	ng	-0.01
14) 2-Fluorobiphenyl	13.43	172	30671	4.54	ng	-0.01
26) Terphenyl-d14	20.17	244	36541	3.97	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.41	88	4315	3.75	ng	# 81
3) n-Nitrosodimethylamine	3.76	42	6669	3.97	ng	# 96
6) bis(2-Chloroethyl)ether	7.59	93	10426	3.71	ng	# 27
9) Naphthalene	10.99	128	37119	3.75	ng	# 95
10) Hexachlorobutadiene	11.28	225	5543	3.55	ng	100
11) 2-Methylnaphthalene	12.62	142	24429	3.72	ng	# 89
15) Acenaphthylene	14.53	152	160211	3.87	ng	100
16) Acenaphthene	14.87	154	23918	3.69	ng	89
17) Fluorene	15.86	166	31331	3.82	ng	99
19) Hexachlorobenzene	16.89	284	9076	4.25	ng	# 63
20) Pentachlorophenol	17.23	266	7358	9.39	ng	# 86
21) Phenanthrene	17.60	178	51479	4.49	ng	# 94
22) Anthracene	17.69	178	50695	4.60	ng	99
23) Fluoranthene	19.61	202	221442	4.07	ng	99
25) Pyrene	19.97	202	238390	3.71	ng	99
27) Benzo(a)anthracene	21.72	228	292830m	4.05	ng	
28) Chrysene	21.77	228	262424m	3.96	ng	
29) Bis(2-ethylhexyl)phthalate	21.63	149	22732	3.65	ng	# 76
30) Indeno(1,2,3-cd)pyrene	26.62	276	302426	4.30	ng	98
32) Benzo(b)fluoranthene	23.38	252	67497	4.27	ng	# 95
33) Benzo(k)fluoranthene	23.43	252	65346	3.95	ng	94
34) Benzo(a)pyrene	24.01	252	64439	4.16	ng	# 95
35) Dibenzo(a,h)anthracene	26.63	278	62737	4.42	ng	95
36) Benzo(g,h,i)perylene	27.38	276	260307	4.27	ng	97

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

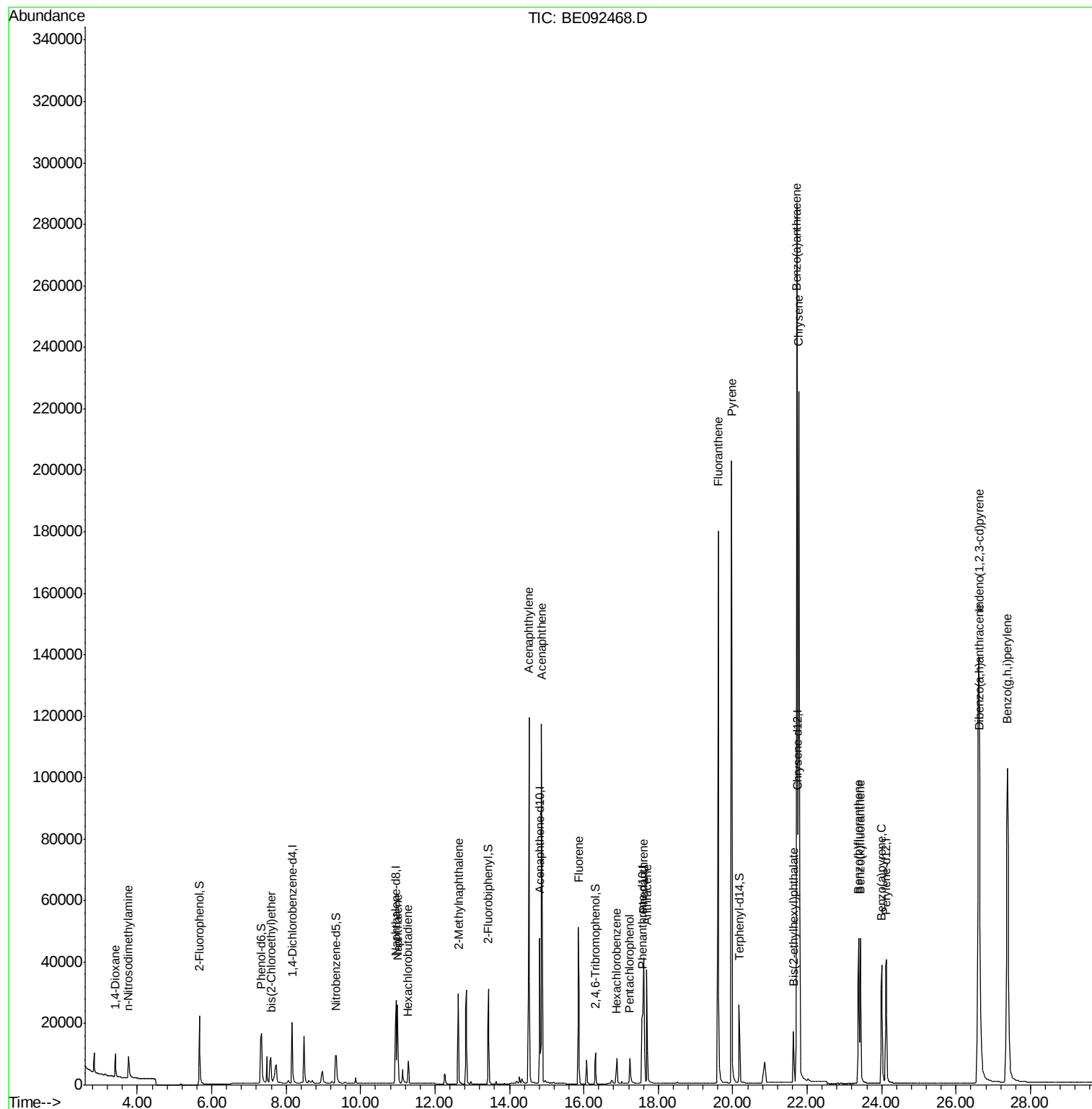
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102116\
Data File : BE092468.D
Acq On : 21 Oct 2016 15:44
Operator : UM/SJ
Sample : PB94258BSD
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Quant Time: Oct 21 17:29:22 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE092216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 21 17:26:45 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 576

Delta R.T. 0.00 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Instrument :

BNA_E

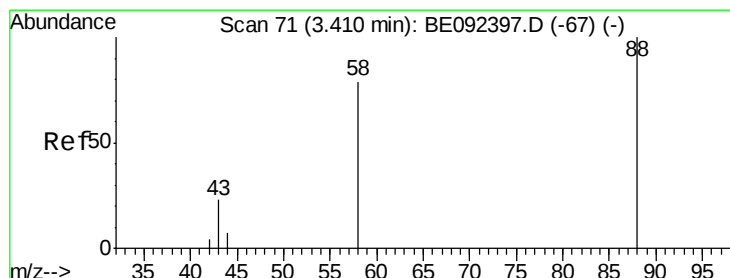
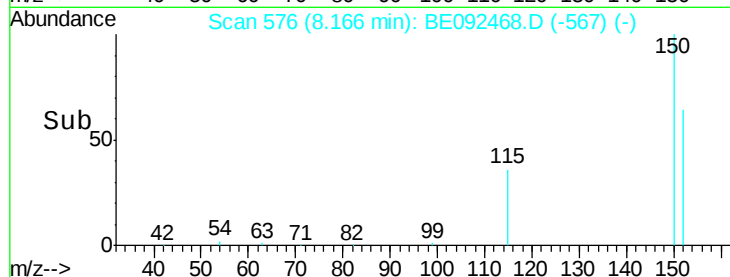
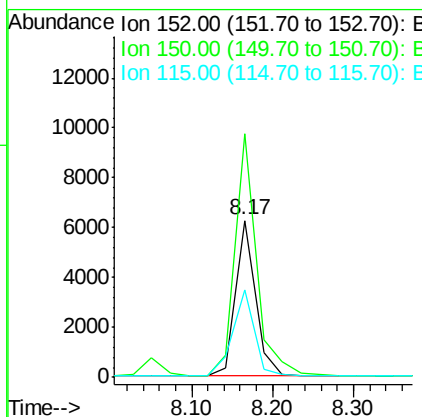
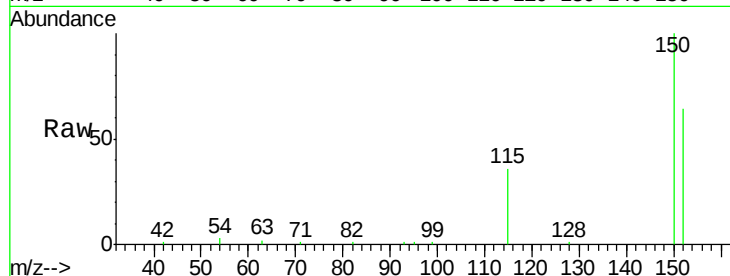
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.3	106.0	159.0
115	55.8	31.2	46.8

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#2

1,4-Dioxane

Concen: 3.75 ng

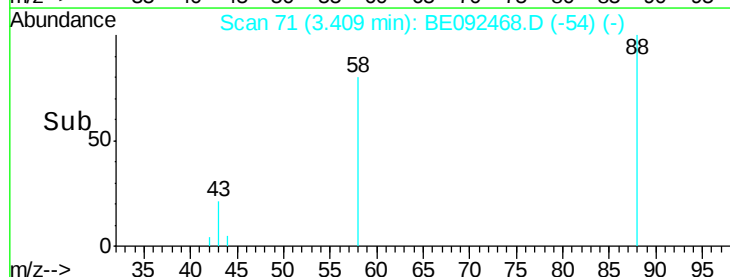
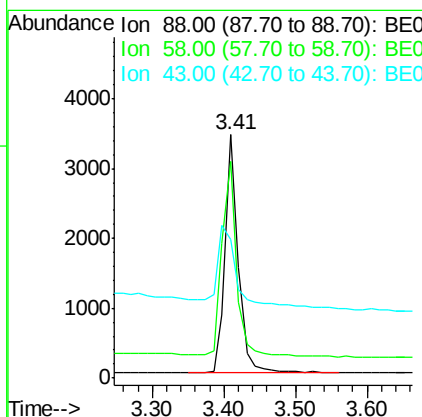
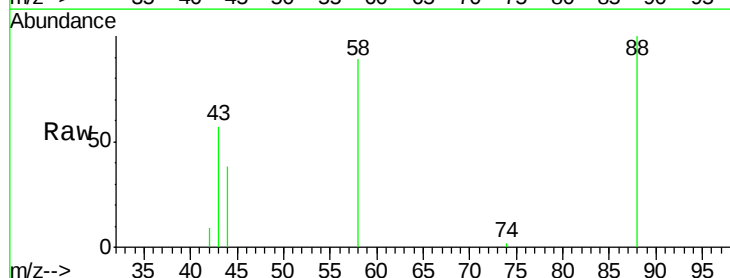
RT: 3.41 min Scan# 71

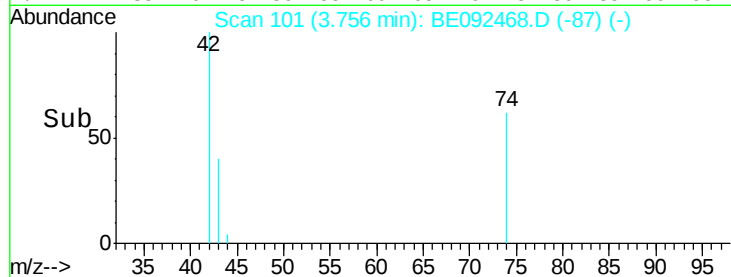
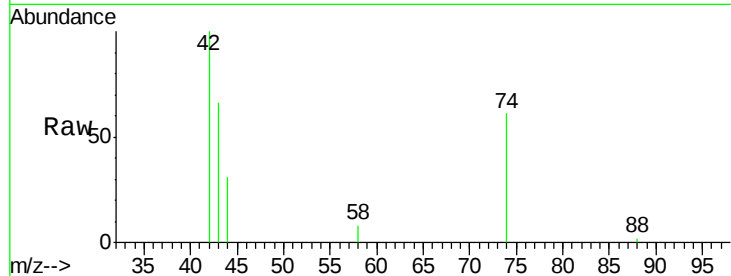
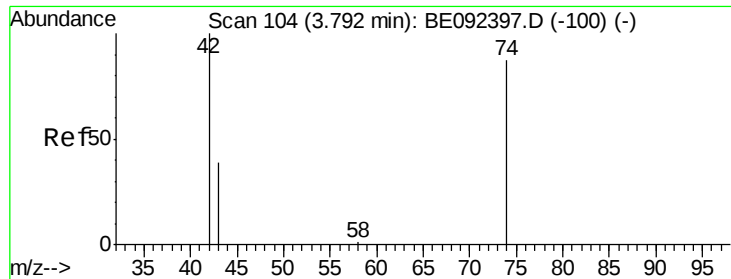
Delta R.T. -0.00 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Lower	Upper
88	100		
58	92.4	63.6	95.4
43	52.0	28.0	42.0





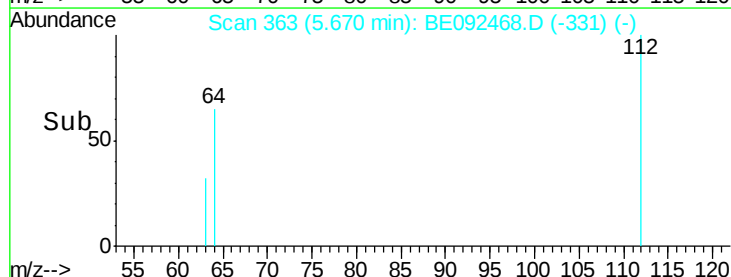
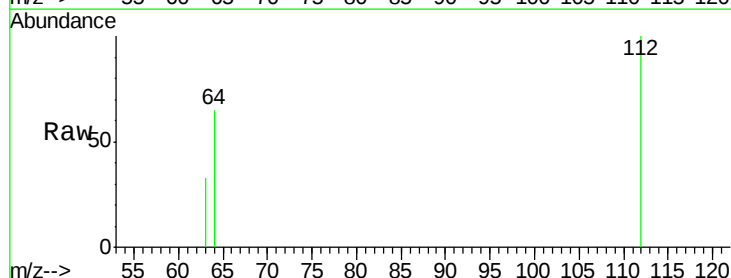
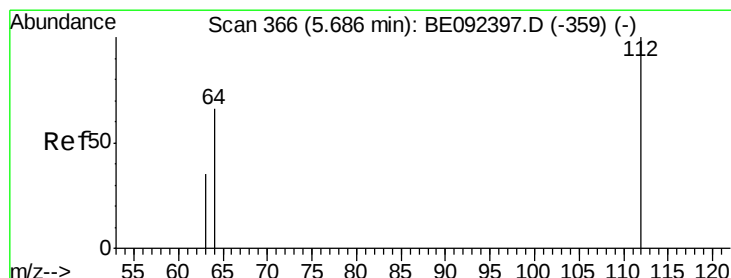
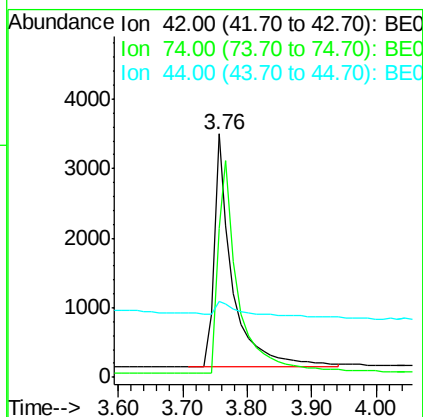
#3
n-Nitrosodimethylamine
Concen: 3.97 ng
RT: 3.76 min Scan# 101
Delta R.T. -0.04 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Tgt Ion: 42 Resp: 6669
Ion Ratio Lower Upper
42 100
74 103.4 86.0 129.0
44 10.2 5.1 7.7#

Instrument :
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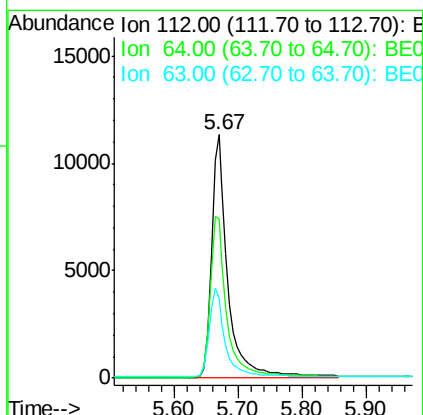
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#4
2-Fluorophenol
Concen: 7.99 ng
RT: 5.67 min Scan# 363
Delta R.T. -0.01 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Tgt Ion: 112 Resp: 20127
Ion Ratio Lower Upper
112 100
64 68.1 53.5 80.3
63 36.6 27.9 41.9





#5

Phenol-d6

Concen: 7.29 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Instrument :

BNA_E

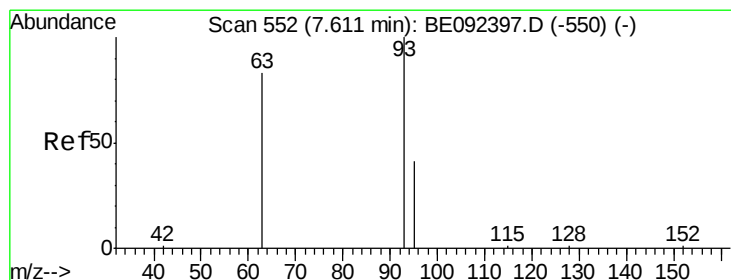
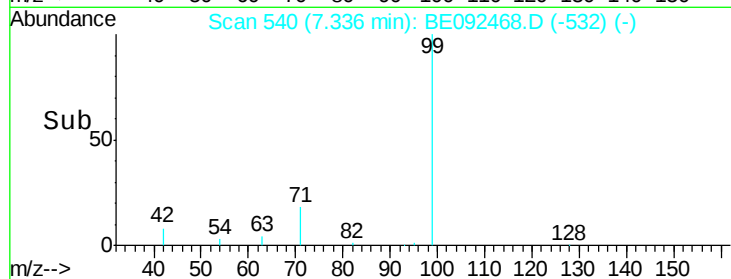
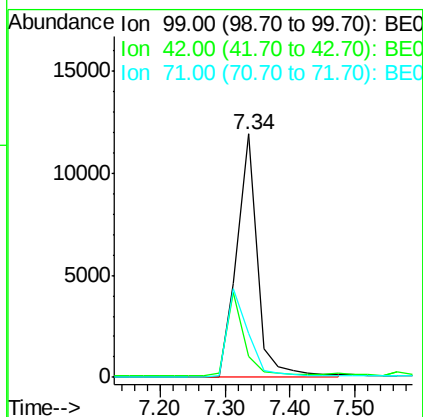
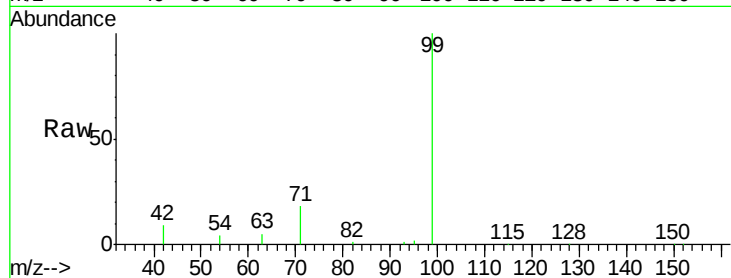
ClientSampleId :

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Tgt Ion:	99	Resp:	26185
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.0	24.0#
71	0.0	30.6	45.8#

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#6

bis(2-Chloroethyl)ether

Concen: 3.71 ng

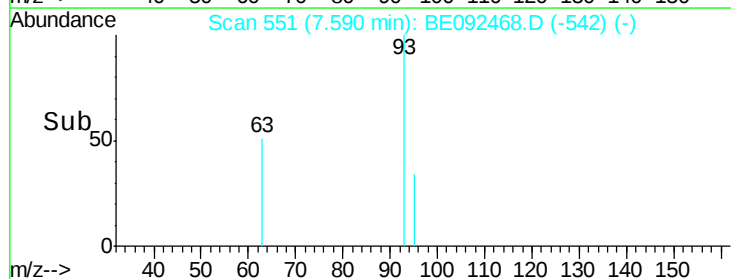
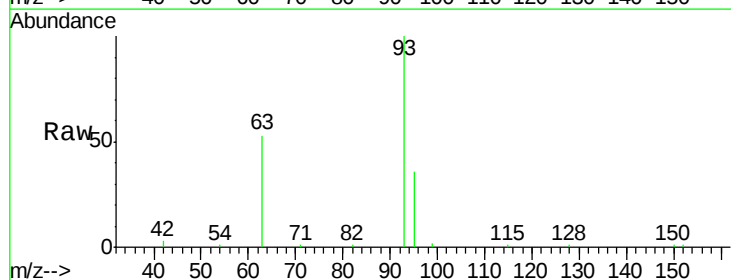
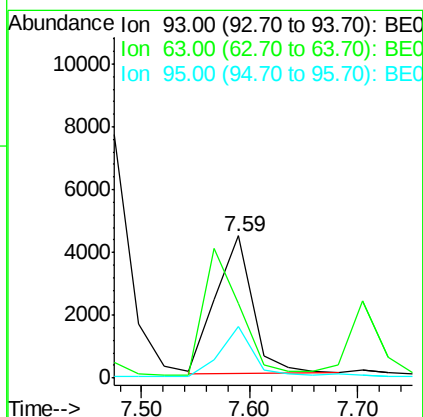
RT: 7.59 min Scan# 551

Delta R.T. 0.00 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Tgt Ion:	93	Resp:	10426
Ion Ratio	Lower	Upper	
93	100		
63	0.0	71.6	107.4#
95	34.0	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. -0.00 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Instrument :

BNA_E

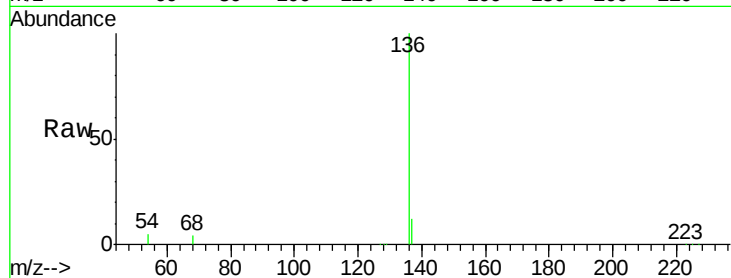
ClientSampleId :

PB94258BSD

Tgt Ion:	136	Resp:	45784
Ion Ratio	Lower	Upper	
136	100		
137	11.9	8.2	12.4
54	4.9	9.6	14.4#
68	3.9	6.7	10.1#

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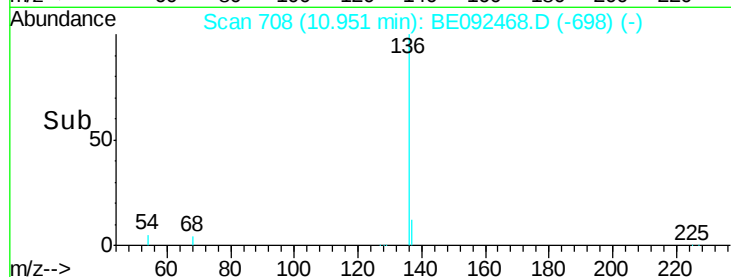
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

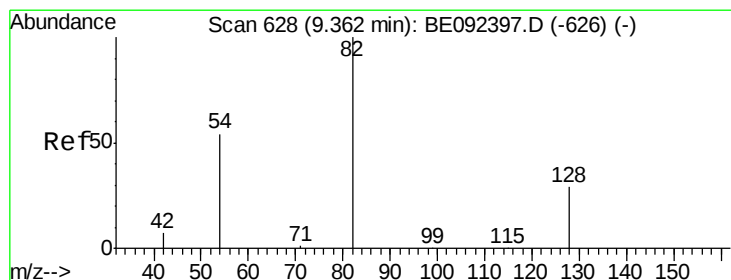
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time-->



Time-->



#8

Nitrobenzene-d5

Concen: 4.02 ng

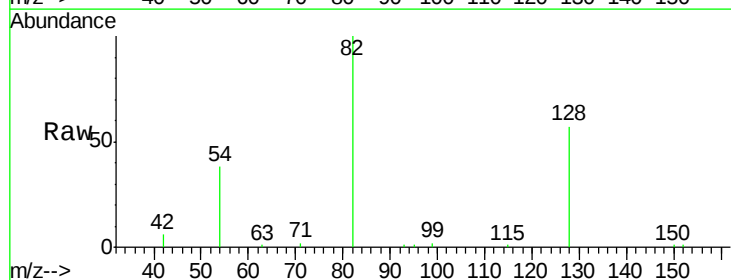
RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Tgt Ion:	82	Resp:	13152
Ion Ratio	Lower	Upper	
82	100		
128	57.2	39.0	58.4
54	37.8	44.8	67.2#

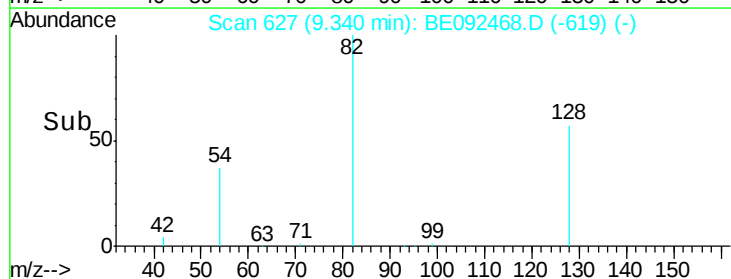


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

Time-->



Time-->



#9

Naphthalene

Concen: 3.75 ng

RT: 10.99 min Scan# 710

Delta R.T. -0.00 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Instrument :

BNA_E

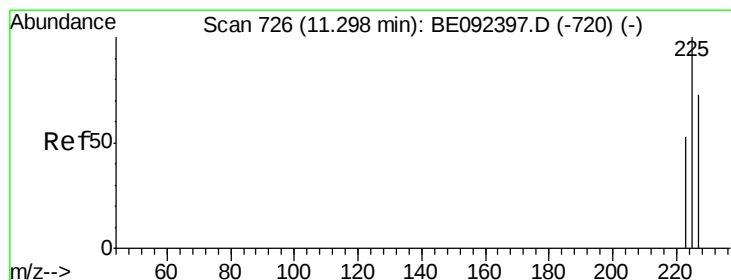
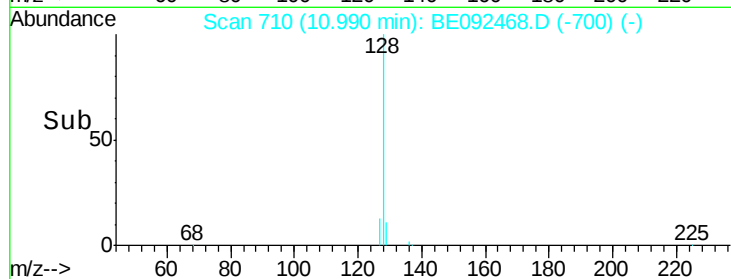
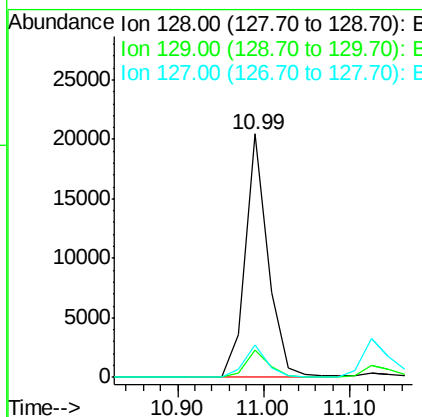
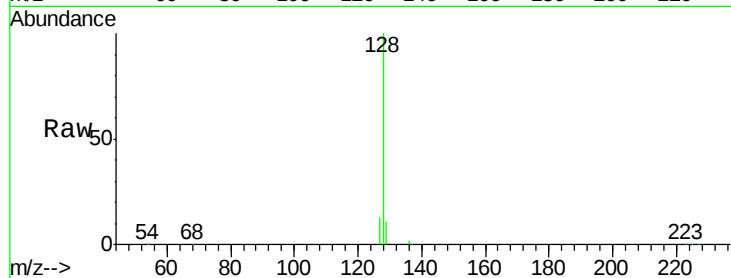
ClientSampleId :

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Tgt Ion:	128	Resp:	37119
Ion Ratio	Lower	Upper	
128	100		
129	11.0	11.2	16.8#
127	13.2	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 3.55 ng

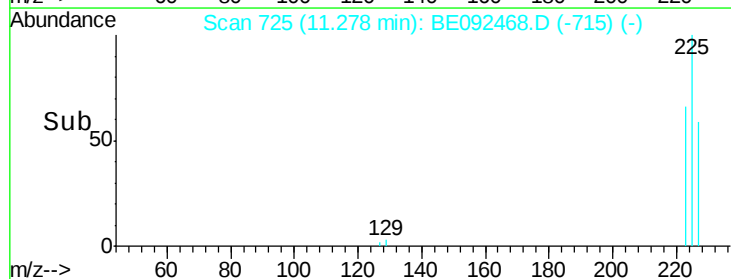
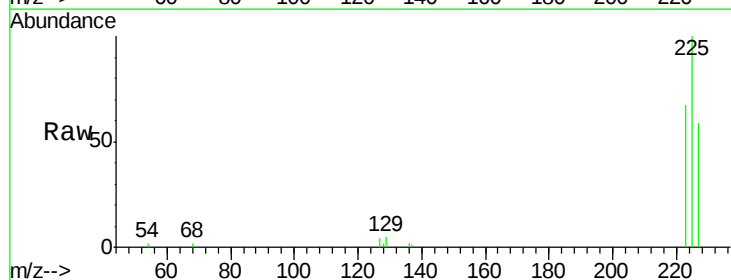
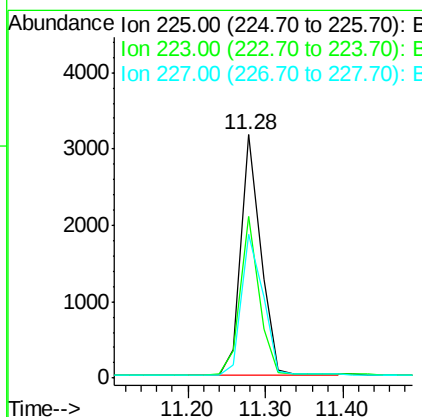
RT: 11.28 min Scan# 725

Delta R.T. -0.00 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Tgt Ion:	225	Resp:	5543
Ion Ratio	Lower	Upper	
225	100		
223	63.2	50.6	76.0
227	63.8	51.4	77.0





#11

2-Methylnaphthalene

Concen: 3.72 ng

RT: 12.62 min Scan# 814

Delta R.T. -0.01 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Instrument :

BNA_E

ClientSampleId :

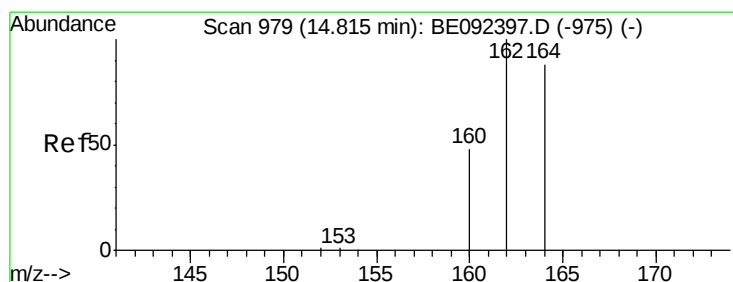
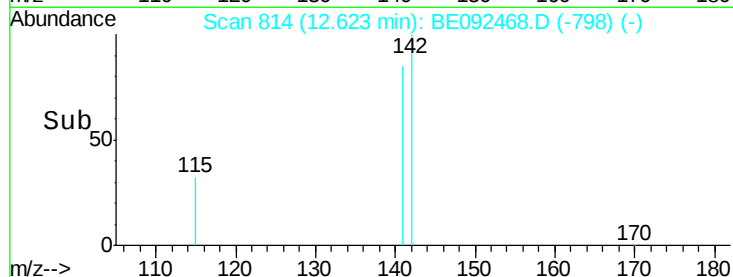
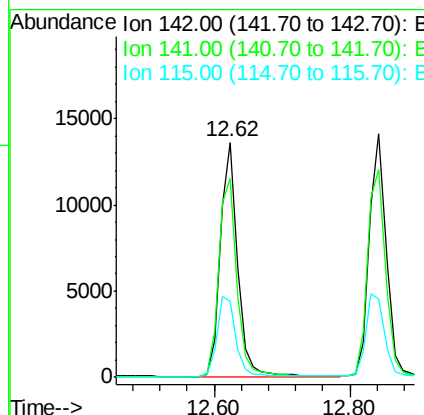
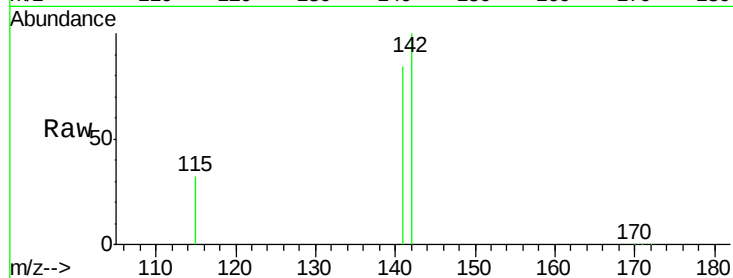
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Tgt Ion:142 Resp: 24429

Ion	Ratio	Lower	Upper
142	100		
141	84.5	73.7	110.5
115	32.2	34.0	51.0#

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.81 min Scan# 980

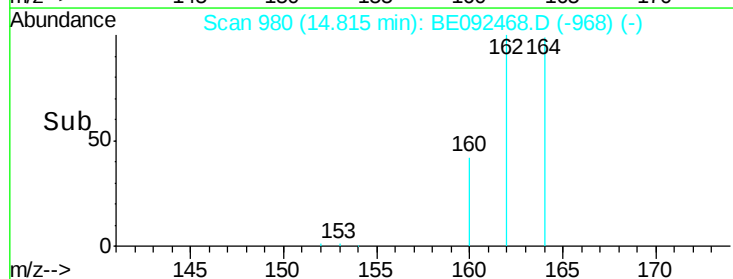
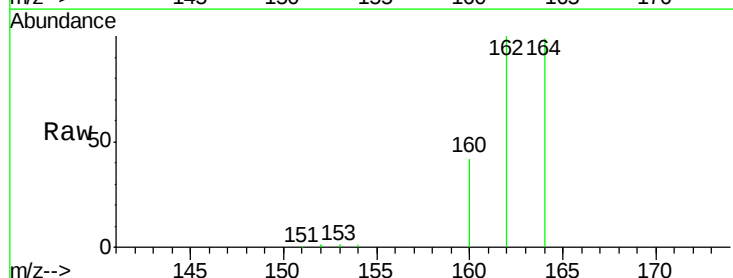
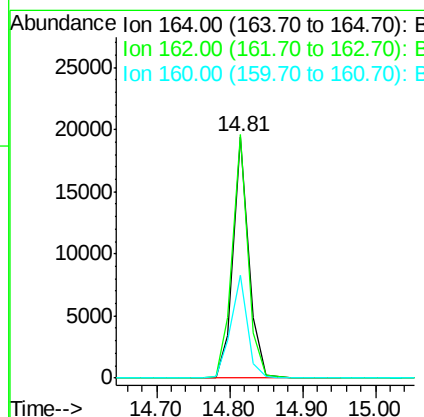
Delta R.T. -0.00 min

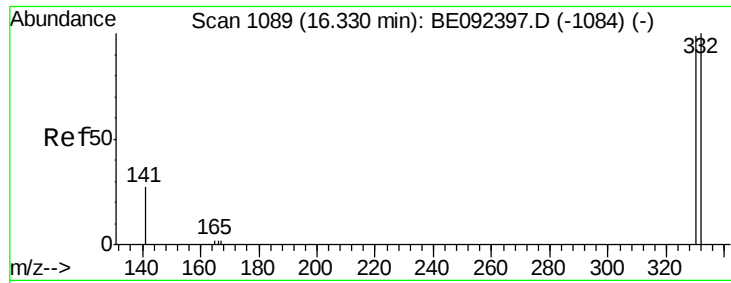
Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Tgt Ion:164 Resp: 28555

Ion	Ratio	Lower	Upper
164	100		
162	100.9	71.4	107.0
160	42.6	27.4	41.2#





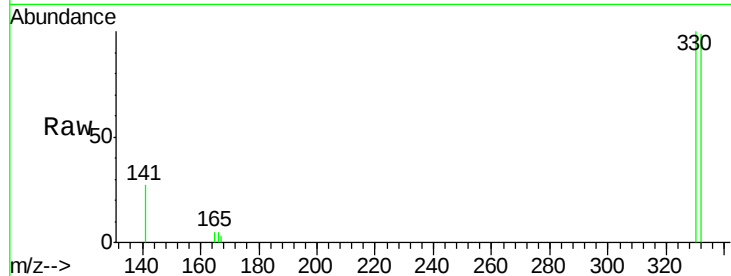
#13
 2,4,6-Tribromophenol
 Concen: 6.57 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BSD

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	75.4	113.0
141	44.0	31.0	46.6

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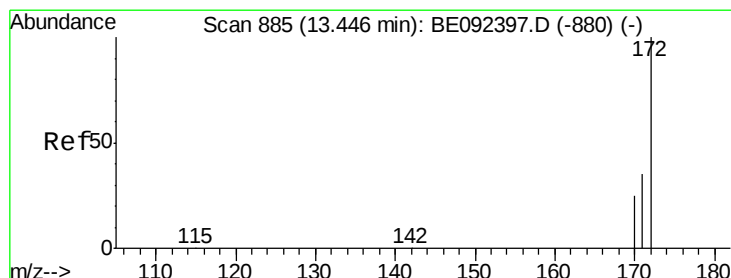
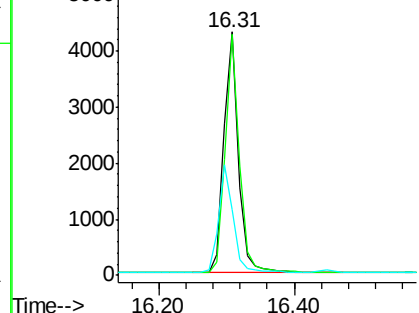
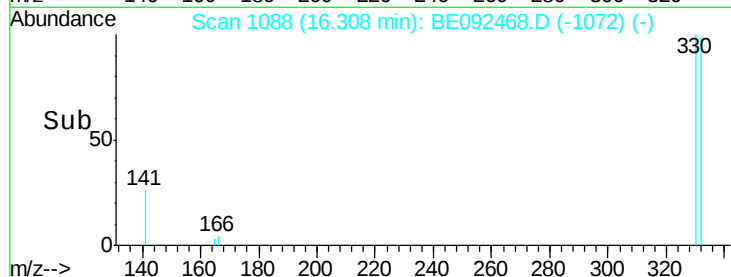


Abundance

Ion 329.80 (329.50 to 330.50): E

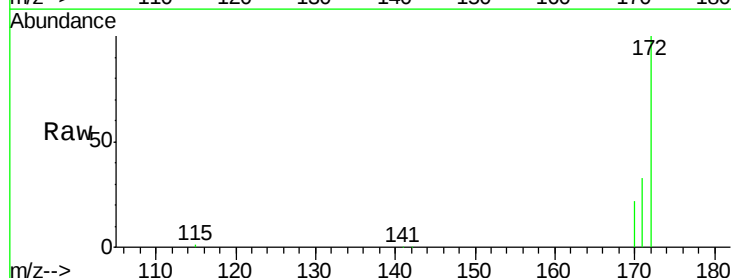
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#14
 2-Fluorobiphenyl
 Concen: 4.54 ng
 RT: 13.43 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.4	30.1	45.1
170	22.2	21.8	32.6

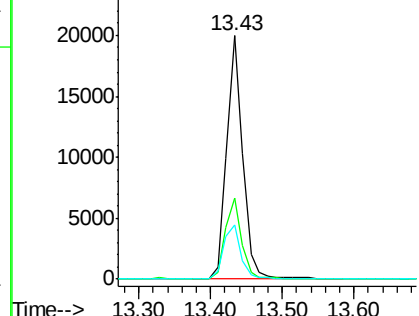
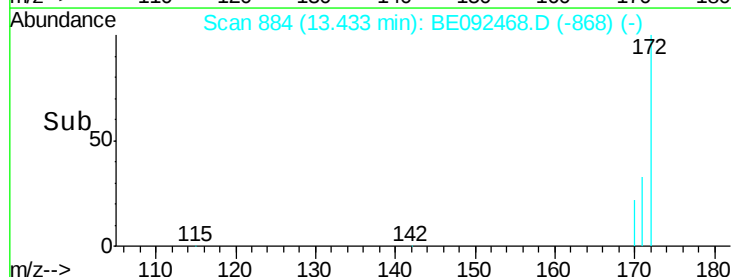


Abundance

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





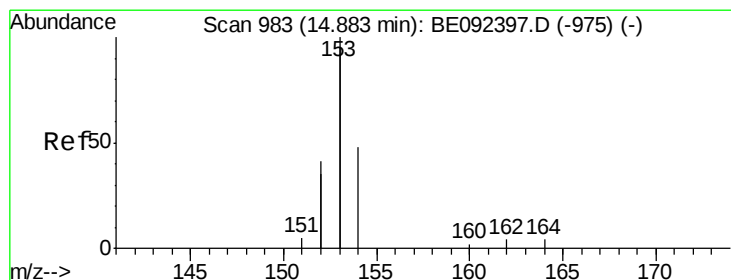
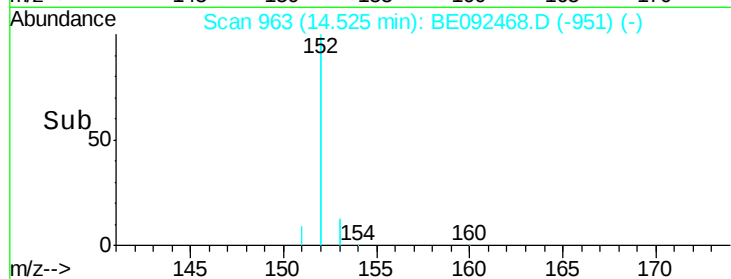
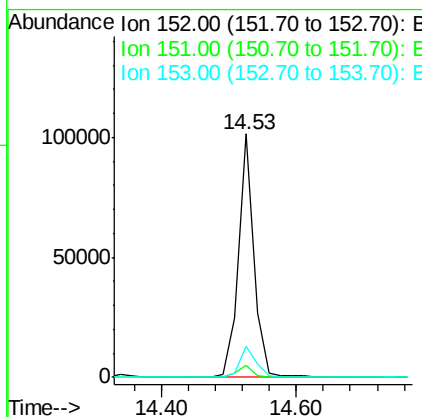
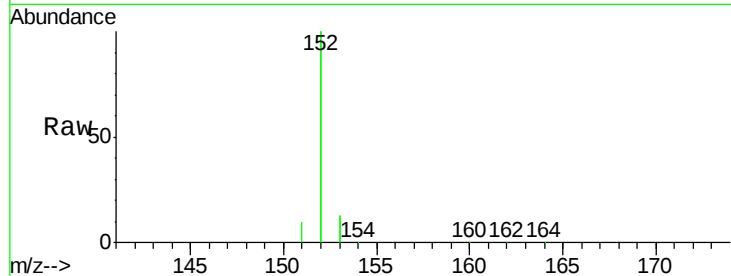
#15
Acenaphthylene
Concen: 3.87 ng
RT: 14.53 min Scan# 963
Delta R.T. -0.00 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Instrument :
BNA_E
ClientSampleId :
PB94258BSD

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	160211		
151	4.9		3.9	5.9
153	13.0		10.4	15.6

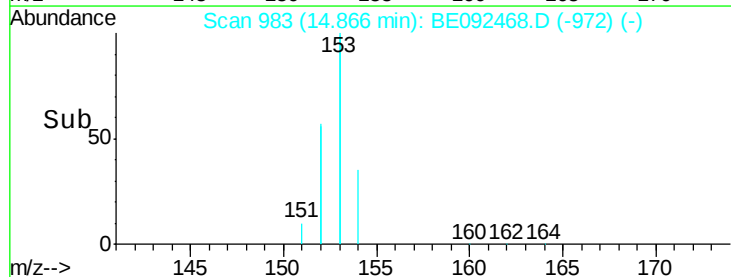
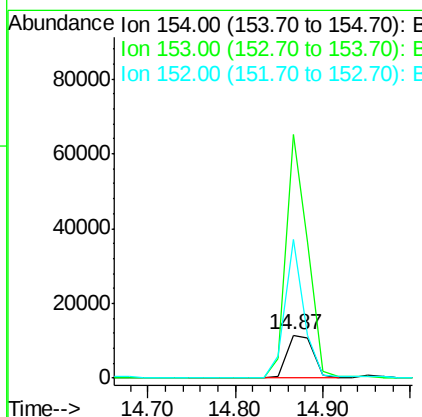
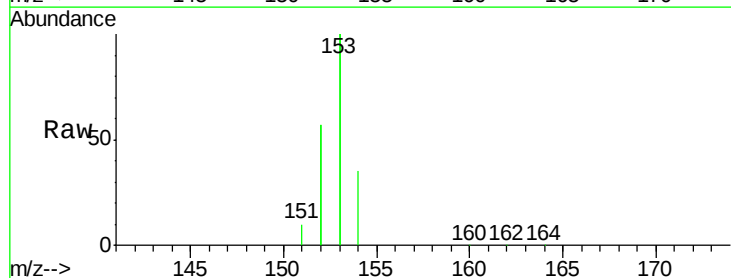
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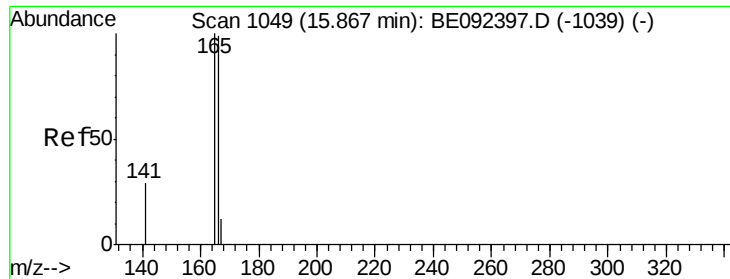
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#16
Acenaphthene
Concen: 3.69 ng
RT: 14.87 min Scan# 983
Delta R.T. -0.02 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	23918		
153	464.2		350.8	526.2
152	234.3		171.1	256.7





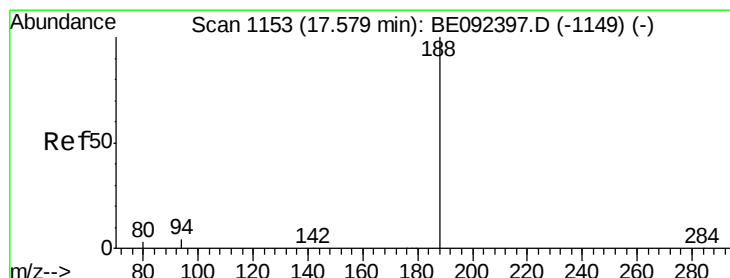
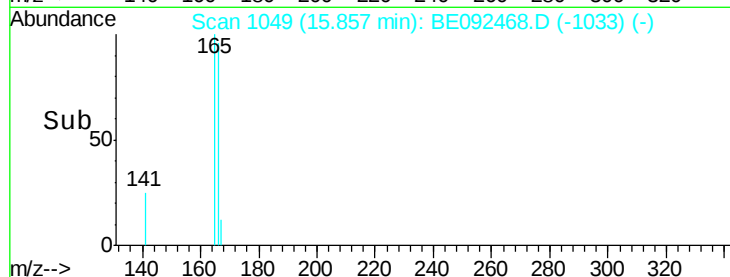
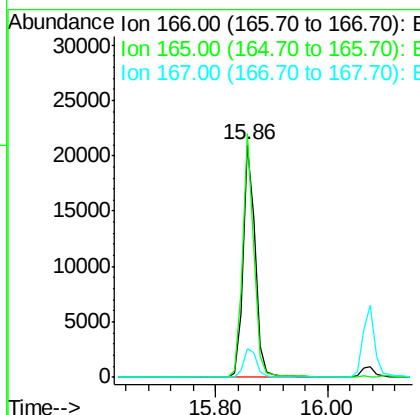
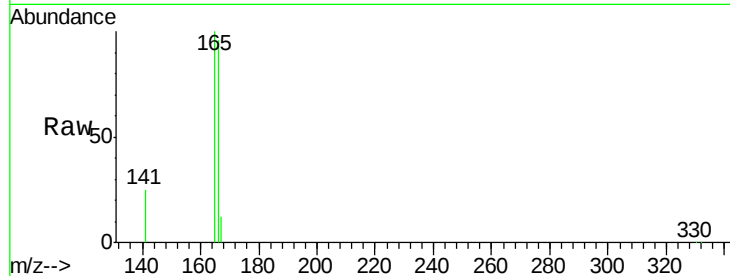
#17
Fluorene
 Concen: 3.82 ng
 RT: 15.86 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BSD

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.2	117.4
167	13.4	11.0	16.4

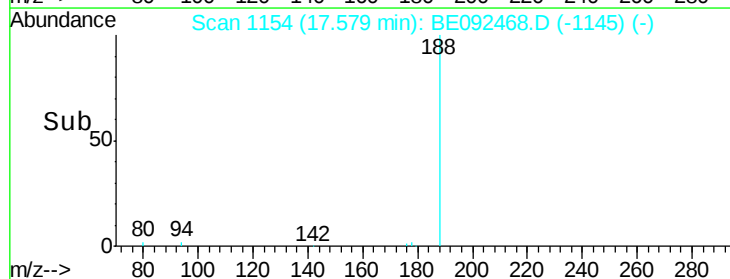
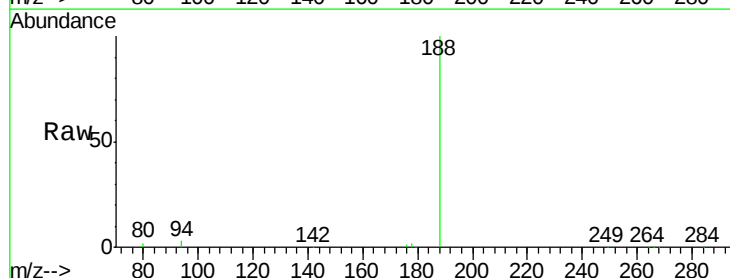
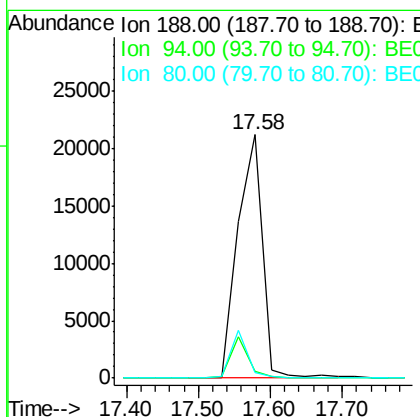
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.58 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Lower	Upper
188	100		
94	2.7	3.2	4.8#
80	2.1	2.6	3.8#





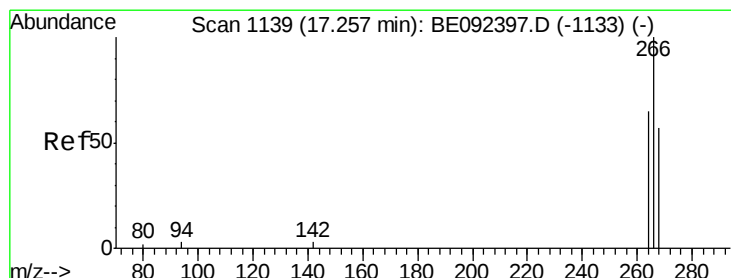
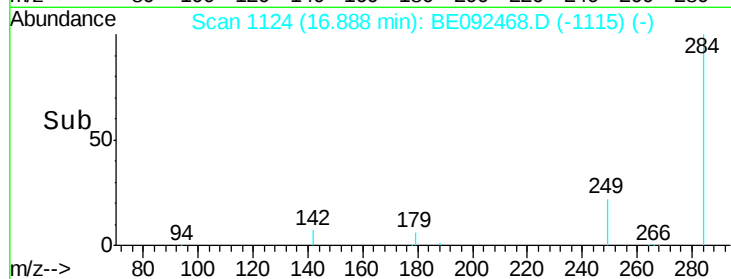
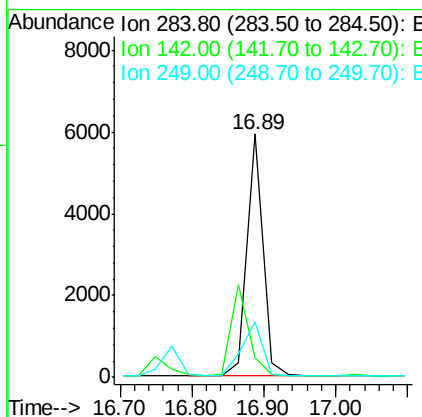
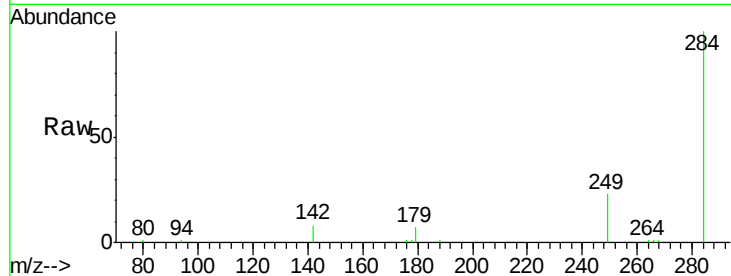
#19
Hexachlorobenzene
Concen: 4.25 ng
RT: 16.89 min Scan# 1124
Delta R.T. -0.00 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Instrument :
BNA_E
ClientSampleId :
PB94258BSD

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	9076		
142	0.0	29.1	43.7#	
249	28.6	27.9	41.9	

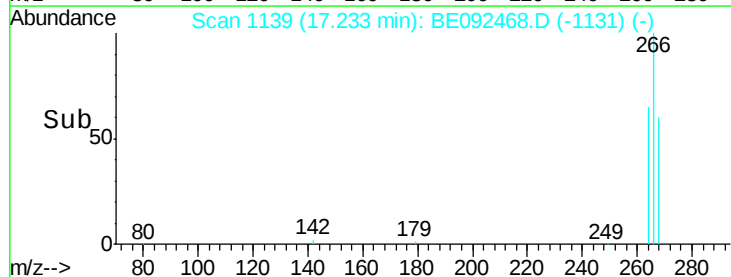
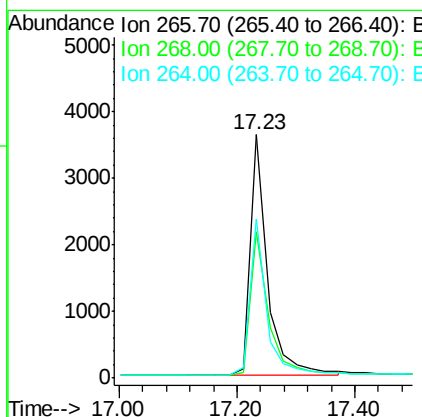
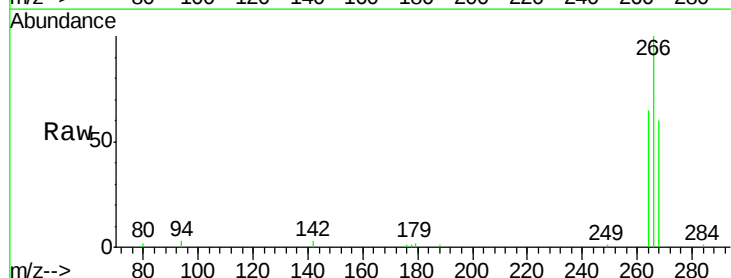
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#20
Pentachlorophenol
Concen: 9.39 ng
RT: 17.23 min Scan# 1139
Delta R.T. -0.02 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	7358		
268	60.1	62.5	93.7#	
264	65.1	57.2	85.8	





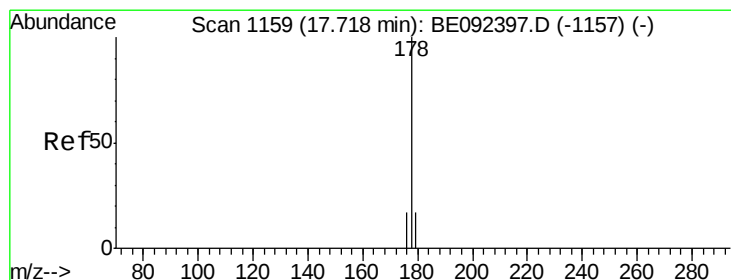
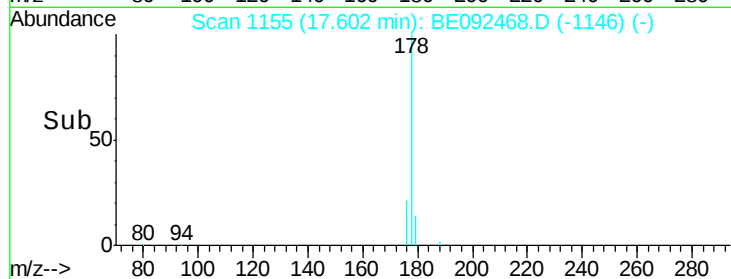
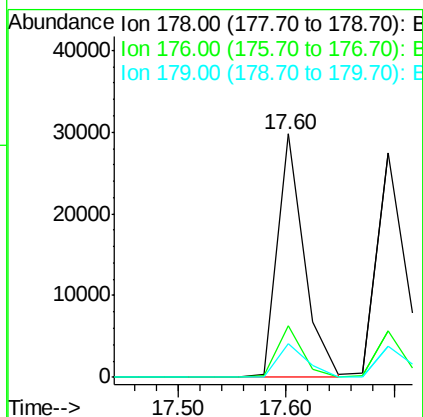
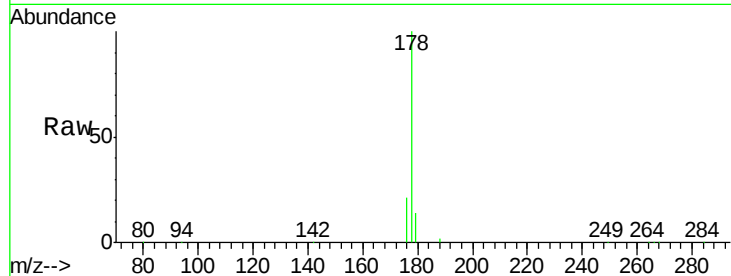
#21
Phenanthrene
Concen: 4.49 ng
RT: 17.60 min Scan# 1155
Delta R.T. -0.00 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Instrument :
BNA_E
ClientSampleId :
PB94258BSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.8	23.8
179	15.0	16.0	24.0

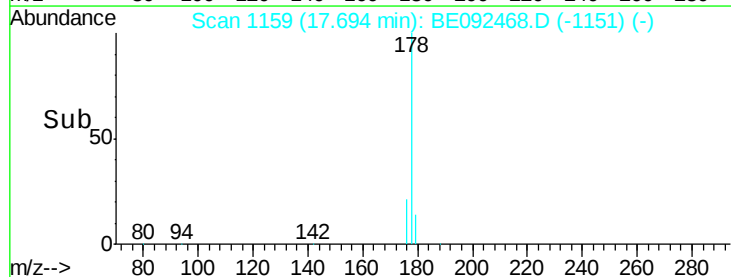
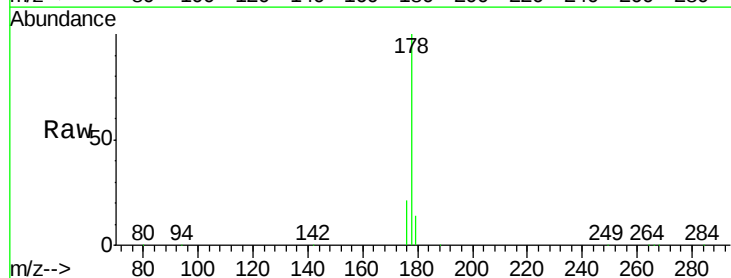
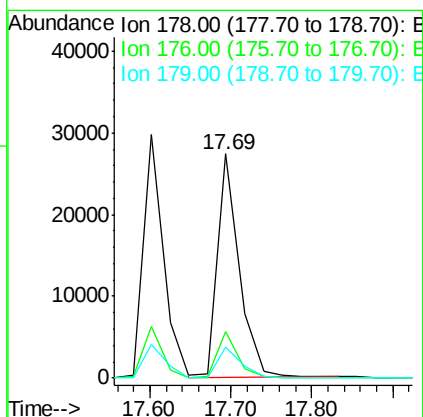
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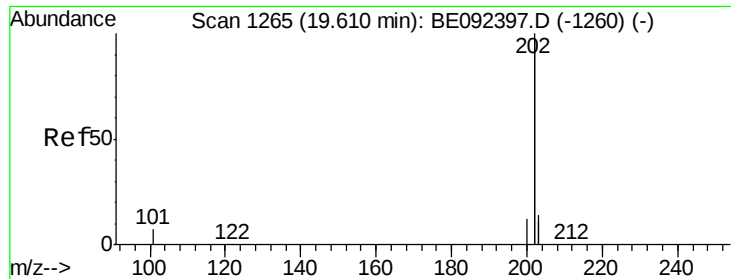
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#22
Anthracene
Concen: 4.60 ng
RT: 17.69 min Scan# 1159
Delta R.T. -0.02 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.0	22.4
179	14.9	12.2	18.2





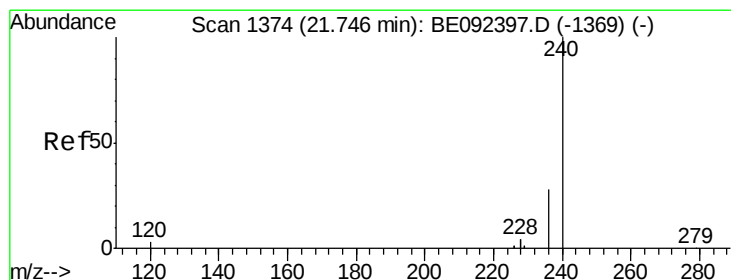
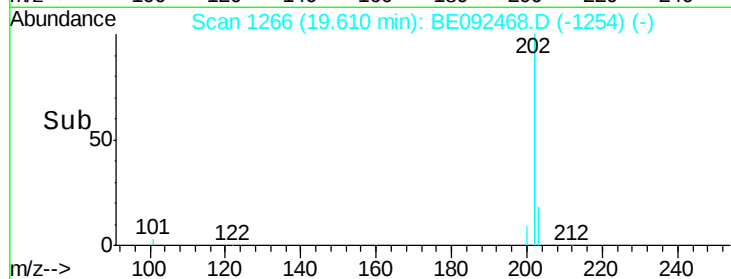
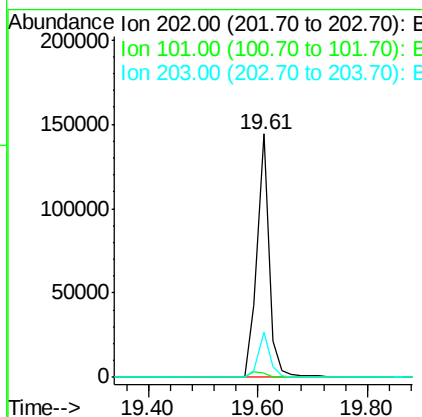
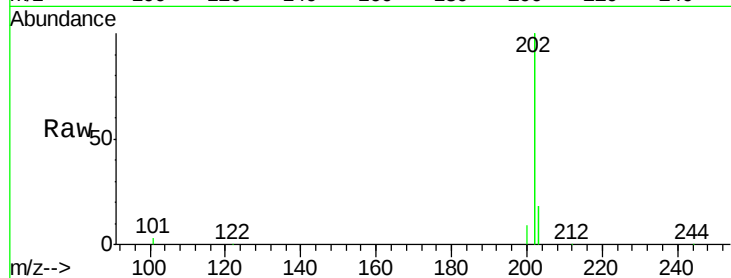
#23
Fluoranthene
 Concen: 4.07 ng
 RT: 19.61 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	2.8	2.2	3.4
203	17.7	13.7	20.5

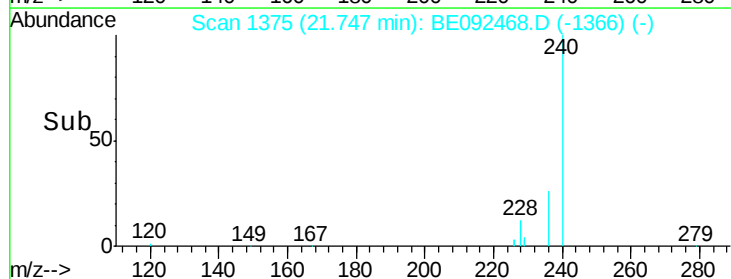
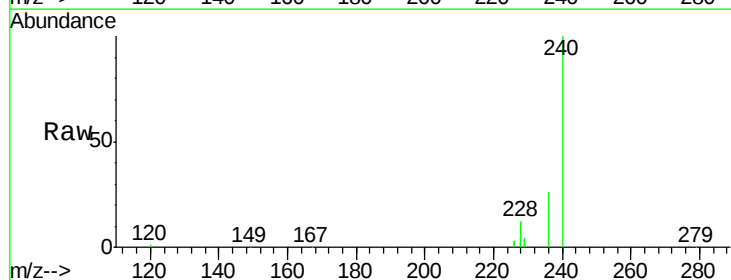
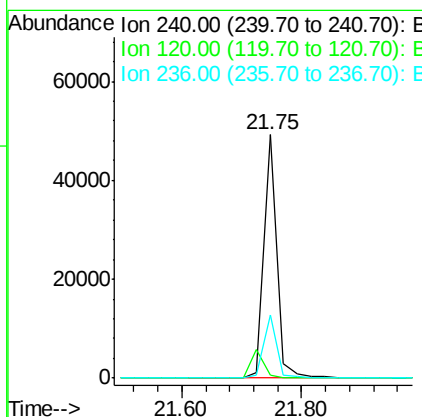
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#24
Chrysene-d12
 Concen: 5.00 ng
 RT: 21.75 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	1.4	2.6	4.0#
236	25.8	24.6	37.0





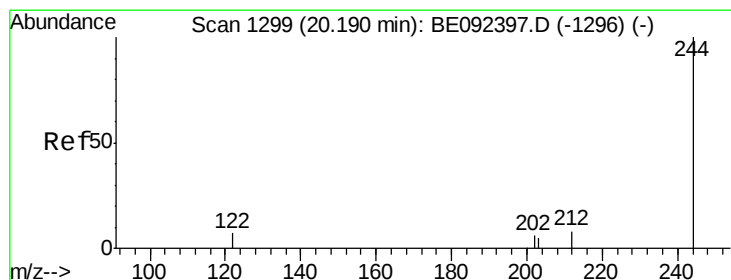
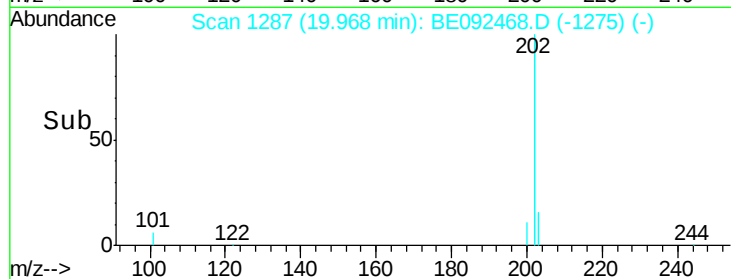
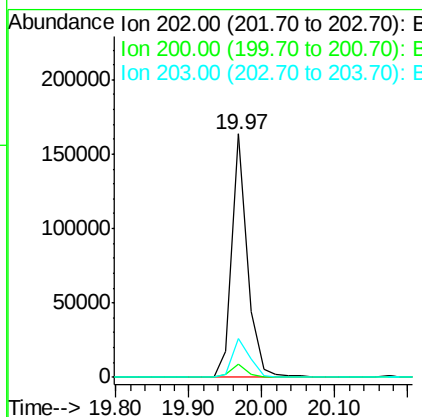
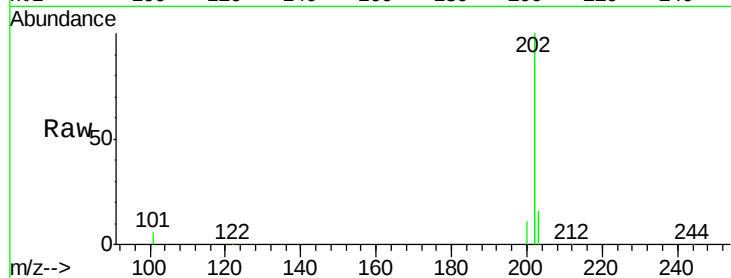
#25
 Pyrene
 Concen: 3.71 ng
 RT: 19.97 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	5.3	4.2	6.4
203	17.9	13.9	20.9

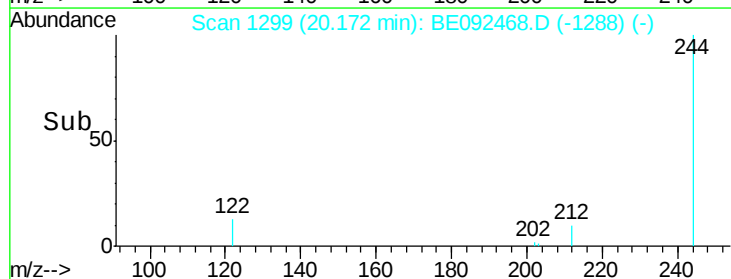
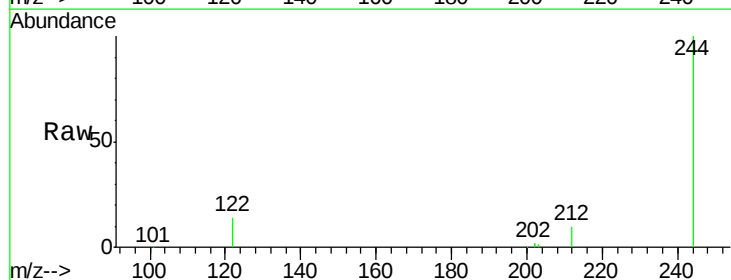
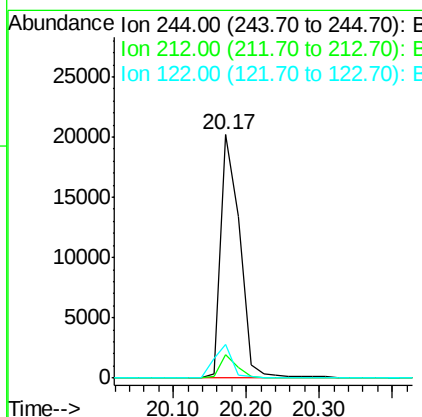
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#26
 Terphenyl-d14
 Concen: 3.97 ng
 RT: 20.17 min Scan# 1299
 Delta R.T. -0.02 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	9.7	6.7	10.1
122	13.6	3.6	5.4#





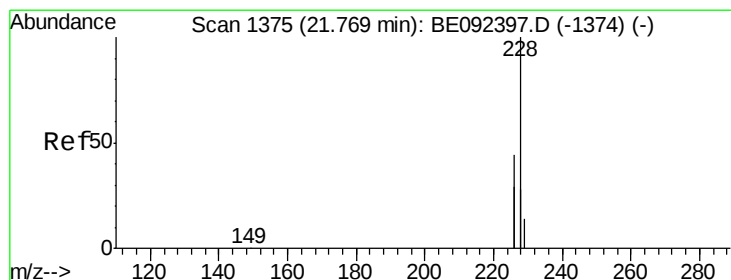
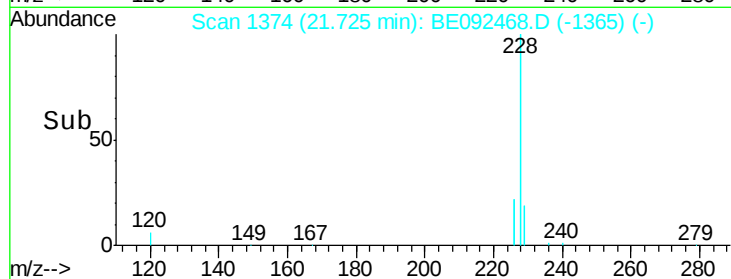
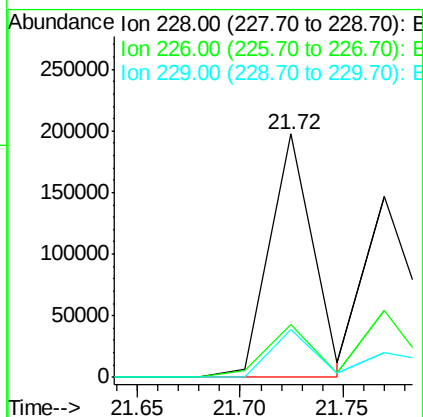
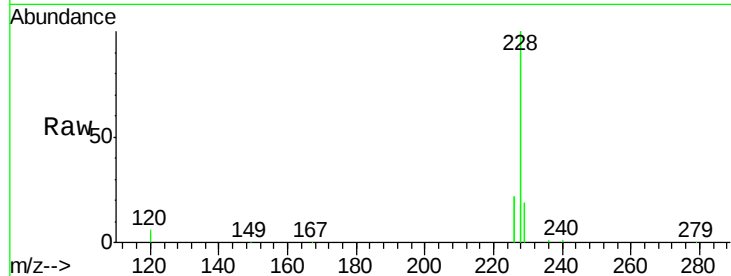
#27
Benzo(a)anthracene
Concen: 4.05 ng m
RT: 21.72 min Scan# 1374
Delta R.T. 0.00 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Instrument :
BNA_E
ClientSampleId :
PB94258BSD

Tgt Ion: 228 Resp: 292830
Ion Ratio Lower Upper
228 100
226 21.8 23.6 35.4#
229 19.4 13.3 19.9

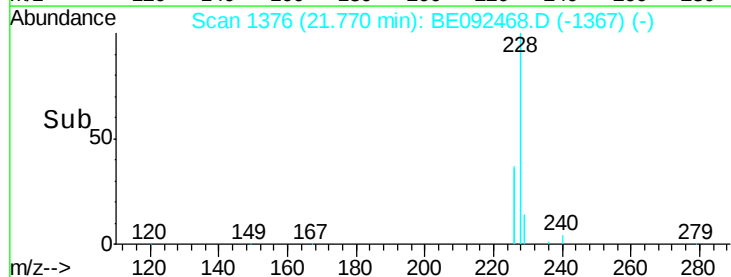
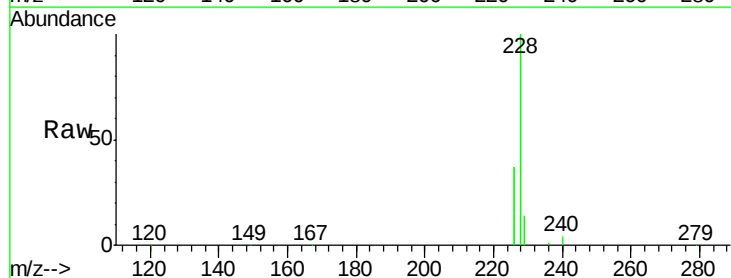
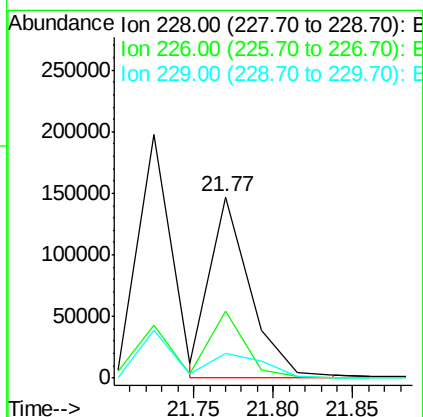
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#28
Chrysene
Concen: 3.96 ng m
RT: 21.77 min Scan# 1376
Delta R.T. 0.00 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Tgt Ion: 228 Resp: 262424
Ion Ratio Lower Upper
228 100
226 36.7 36.3 54.5
229 14.0 10.6 16.0





#29

Bis(2-ethylhexyl)phthalate

Concen: 3.65 ng

RT: 21.63 min Scan# 1370

Delta R.T. 0.00 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Instrument :

BNA_E

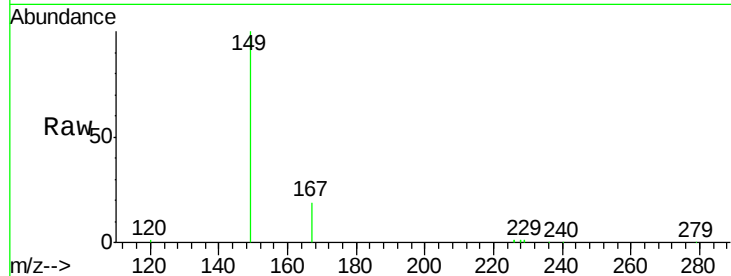
ClientSampleId :

PB94258BSD

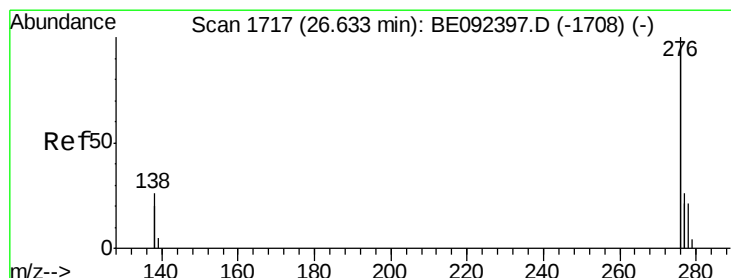
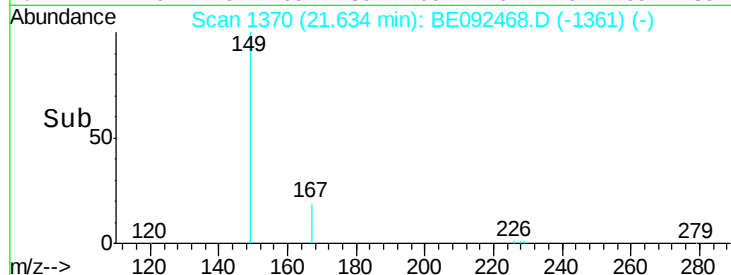
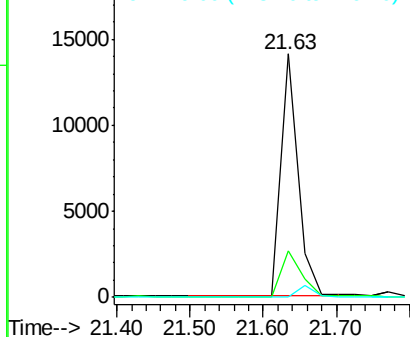
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.4	16.0	24.0
279	0.0	16.0	24.0

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#30

Indeno(1,2,3-cd)pyrene

Concen: 4.30 ng

RT: 26.62 min Scan# 1717

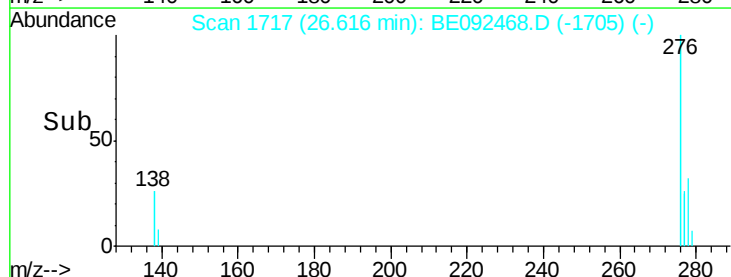
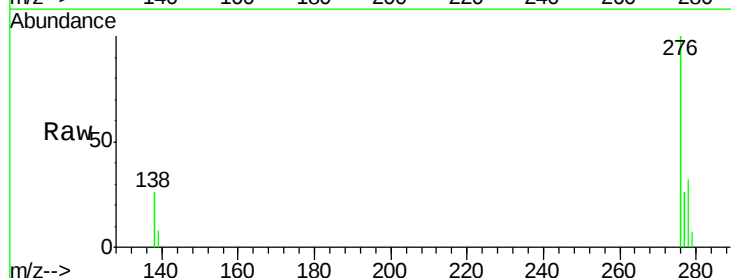
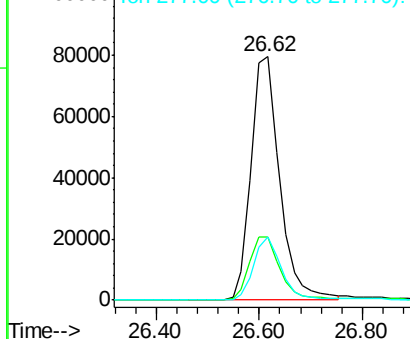
Delta R.T. 0.00 min

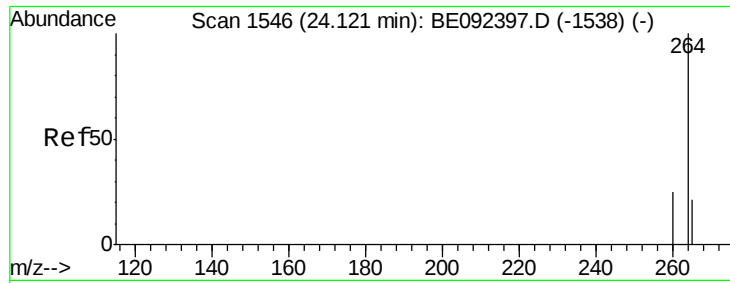
Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.5	20.3	30.5
277	24.7	19.7	29.5

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





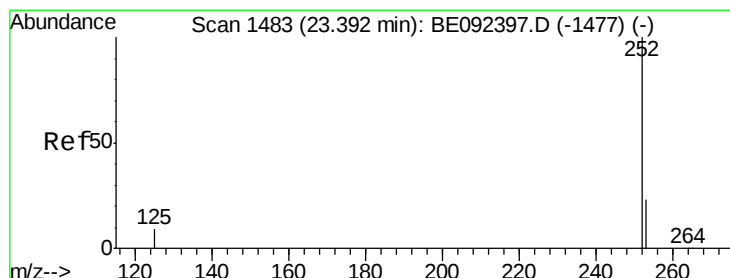
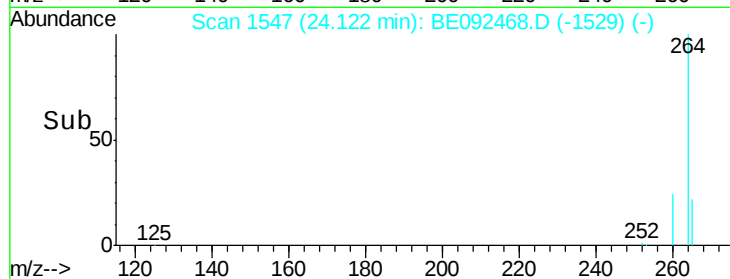
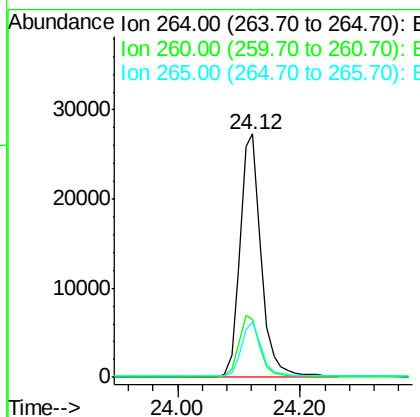
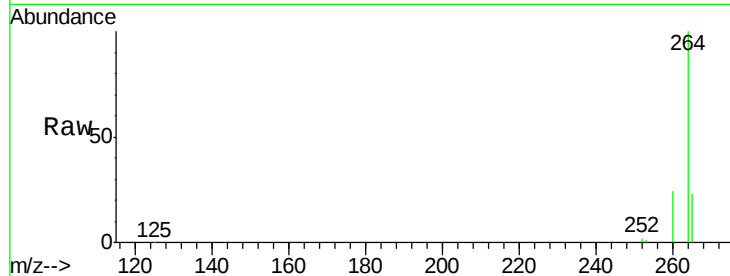
#31
Perylene-d12
 Concen: 5.00 ng
 RT: 24.12 min Scan# 1547
 Delta R.T. 0.01 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BSD

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	20.1	30.1
265	22.7	17.9	26.9

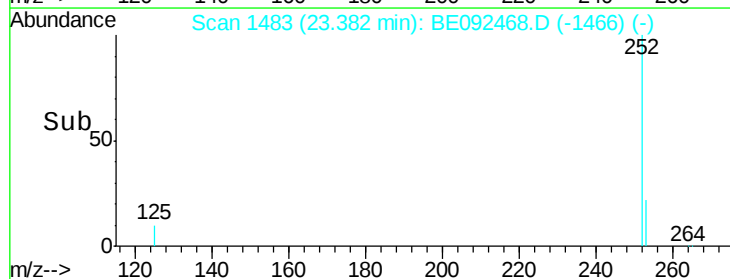
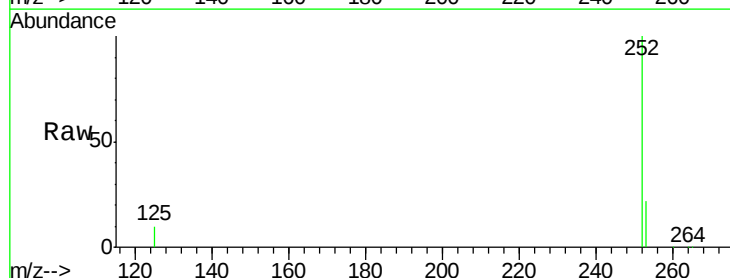
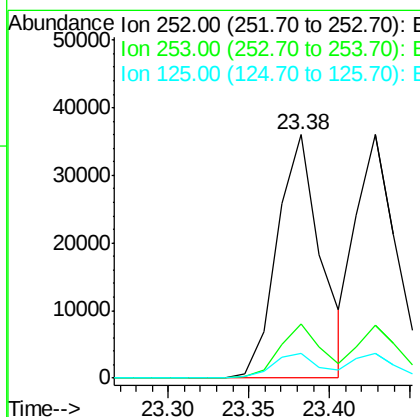
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#32
Benzo(b)fluoranthene
 Concen: 4.27 ng
 RT: 23.38 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: BE092468.D
 Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.7	28.1
125	10.0	10.5	15.7





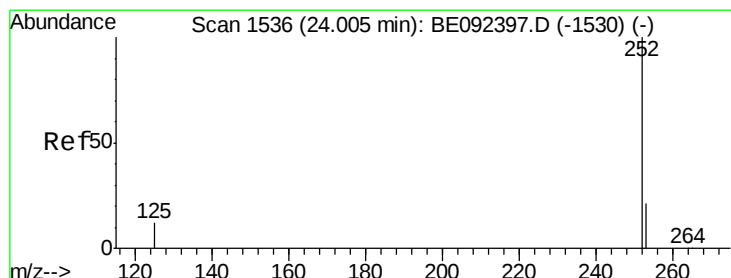
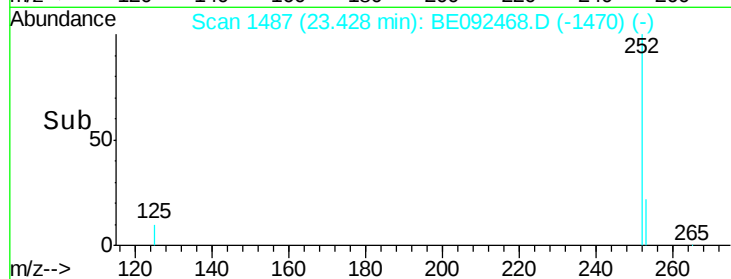
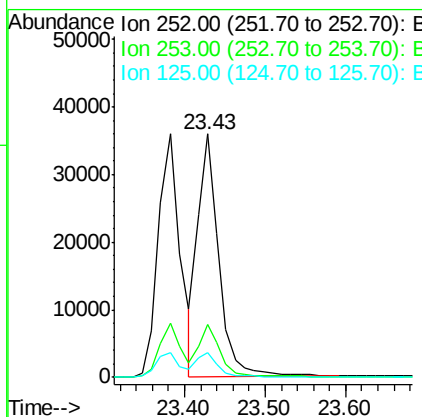
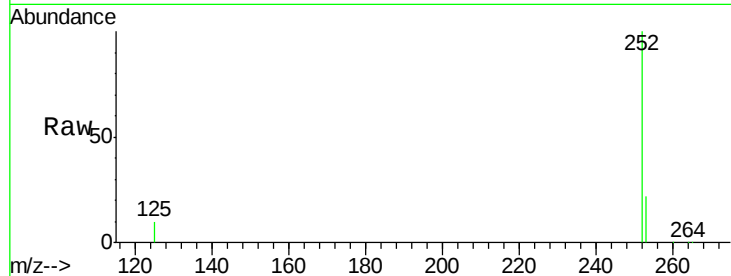
#33
Benzo(k)fluoranthene
Concen: 3.95 ng
RT: 23.43 min Scan# 1487
Delta R.T. -0.00 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Instrument :
BNA_E
ClientSampleId :
PB94258BSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.3	30.5
125	10.2	9.6	14.4

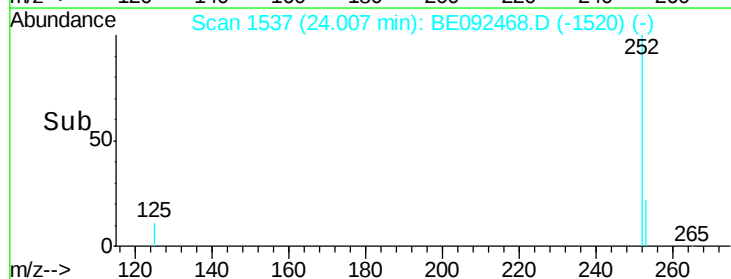
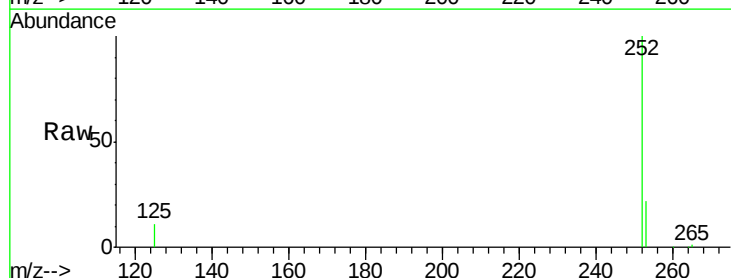
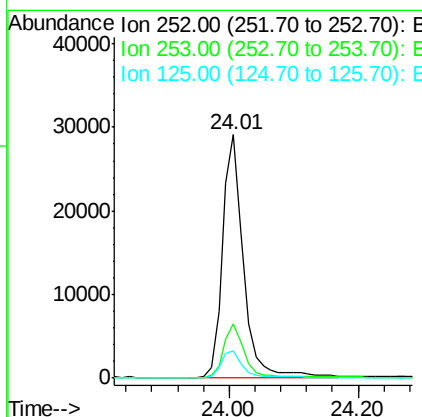
Manual Integrations
APPROVED

umangi
10/21/2016 7:06:23 PM



#34
Benzo(a)pyrene
Concen: 4.16 ng
RT: 24.01 min Scan# 1537
Delta R.T. -0.00 min
Lab File: BE092468.D
Acq: 21 Oct 2016 15:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	19.0	28.6
125	11.0	11.8	17.8





#35

Dibenzo(a,h)anthracene

Concen: 4.42 ng

RT: 26.63 min Scan# 1718

Delta R.T. 0.00 min

Lab File: BE092468.D

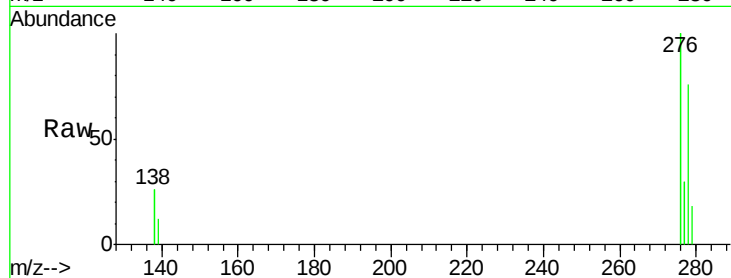
Acq: 21 Oct 2016 15:44

Instrument :

BNA_E

ClientSampleId :

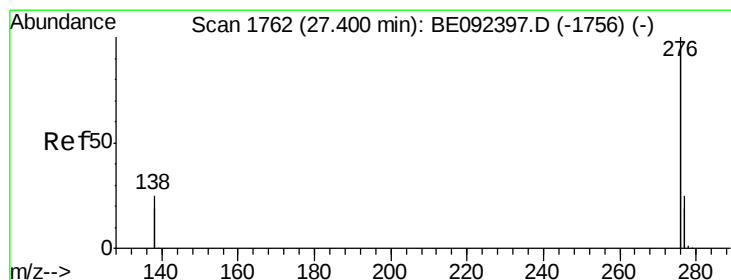
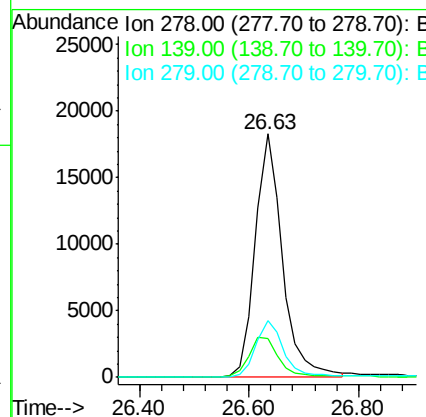
PB94258BSD



Tgt Ion:	278	Resp:	62737
Ion Ratio	Lower	Upper	
278	100		
139	16.0	13.8	20.8
279	23.3	21.4	32.2

Manual Integrations
APPROVED

umangi
10/21/2016 7:06:23 PM



#36

Benzo(g,h,i)perylene

Concen: 4.27 ng

RT: 27.38 min Scan# 1762

Delta R.T. 0.00 min

Lab File: BE092468.D

Acq: 21 Oct 2016 15:44

Tgt Ion:	276	Resp:	260307
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.8	29.8
138	22.7	19.8	29.6

