

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110816\
 Data File : BE092512.D
 Acq On : 8 Nov 2016 17:07
 Operator : UM/SJ
 Sample : PB94535BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB94535BSD

Manual Integrations
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Quant Time: Nov 09 00:52:30 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE110816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 08 16:27:22 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	9032	5.00	ng	-0.02
7) Naphthalene-d8	10.93	136	40708	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	26544	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	50768	5.00	ng	0.00
24) Chrysene-d12	21.72	240	64045	5.00	ng	0.00
31) Perylene-d12	24.09	264	56694	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	20507	10.30	ng	-0.01
5) Phenol-d6	7.31	99	28653	10.79	ng	-0.02
8) Nitrobenzene-d5	9.32	82	13423	5.03	ng	-0.02
13) 2,4,6-Tribromophenol	16.30	330	7176	7.58	ng	-0.01
14) 2-Fluorobiphenyl	13.42	172	30043	4.58	ng	-0.01
26) Terphenyl-d14	20.16	244	38766	4.98	ng	-0.02

Target Compounds						Qvalue
2) 1,4-Dioxane	3.39	88	4265	3.98	ng	# 55
3) n-Nitrosodimethylamine	3.73	42	6783	4.24	ng	# 97
6) bis(2-Chloroethyl)ether	7.57	93	11614	3.99	ng	90
9) Naphthalene	10.97	128	36419	4.14	ng	# 95
10) Hexachlorobutadiene	11.26	225	5554	4.16	ng	100
11) 2-Methylnaphthalene	12.60	142	24626	4.30	ng	97
15) Acenaphthylene	14.51	152	162688	4.27	ng	100
16) Acenaphthene	14.87	154	24148	3.92	ng	91
17) Fluorene	15.84	166	32293	4.18	ng	99
19) Hexachlorobenzene	16.87	284	9597	5.01	ng	# 67
20) Pentachlorophenol	17.21	266	7872	14.21	ng	# 85
21) Phenanthrene	17.58	178	48575	4.43	ng	# 94
22) Anthracene	17.67	178	51631	4.85	ng	99
23) Fluoranthene	19.59	202	234067	4.25	ng	98
25) Pyrene	19.95	202	245670	4.68	ng	99
27) Benzo(a)anthracene	21.70	228	280258m	4.32	ng	
28) Chrysene	21.75	228	241143m	4.66	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	22896	4.03	ng	# 56
30) Indeno(1,2,3-cd)pyrene	26.55	276	312143	4.41	ng	98
32) Benzo(b)fluoranthene	23.35	252	65347	4.49	ng	95
33) Benzo(k)fluoranthene	23.39	252	70452	4.59	ng	93
34) Benzo(a)pyrene	23.97	252	62510	4.27	ng	# 94
35) Dibenzo(a,h)anthracene	26.58	278	64978	4.71	ng	94
36) Benzo(g,h,i)perylene	27.31	276	270561	4.76	ng	98

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

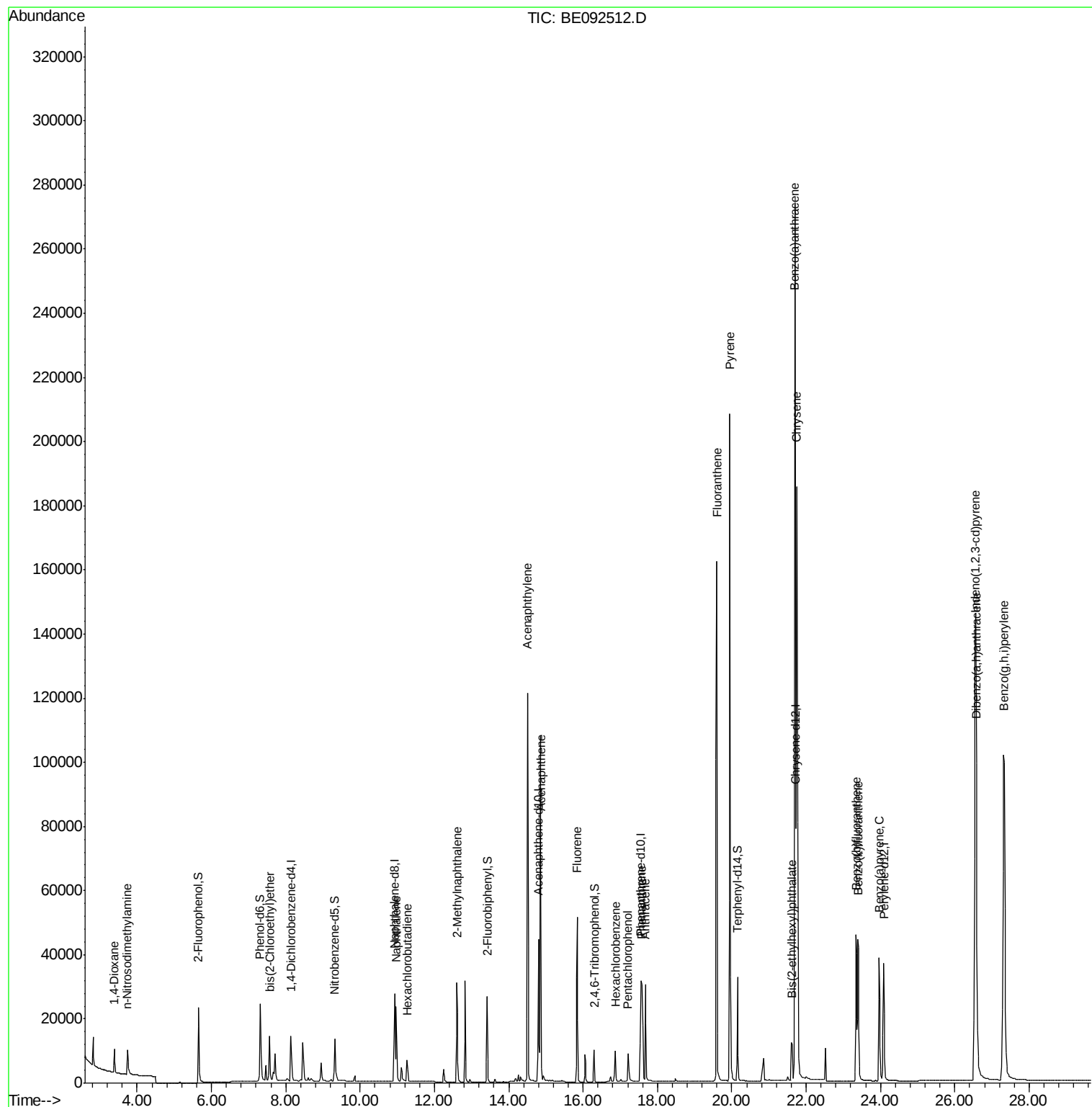
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110816\
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Misc :
ALS Vial : 13 Sample Multiplier: 1

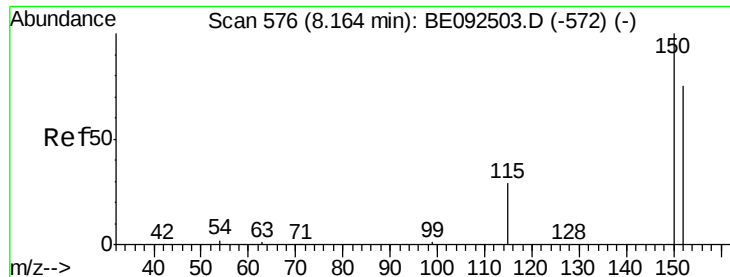
Instrument :
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Quant Time: Nov 09 00:52:30 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE110816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 08 16:27:22 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Instrument :

BNA_E

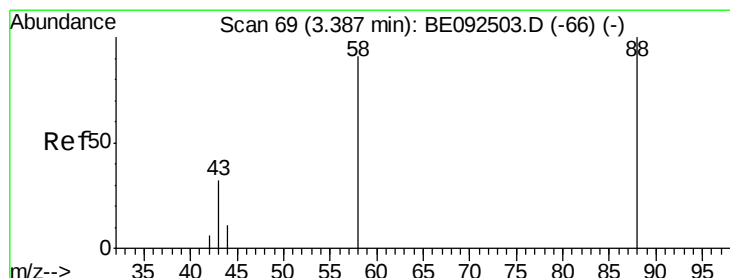
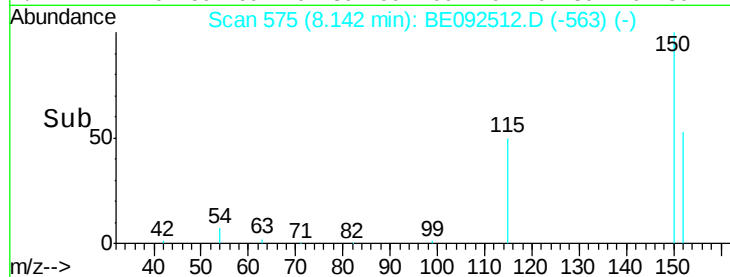
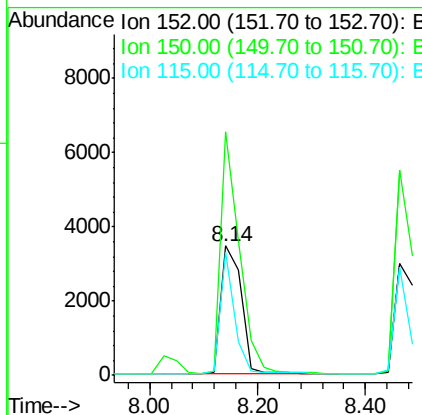
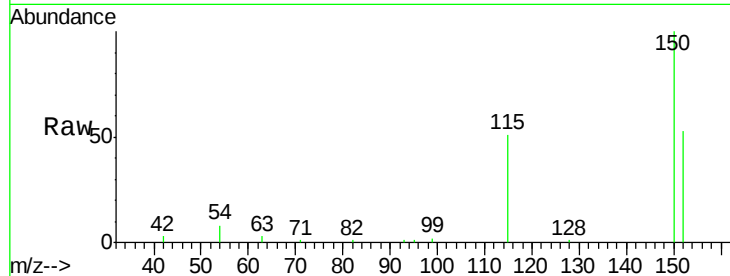
ClientSampleId :

PB94535BSD

Tot Ion:	152	Resp:	9032
Ion Ratio	Lower	Upper	
152	100		
150	188.0	106.0	159.0#
115	95.3	31.2	46.8#

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#2

1,4-Dioxane

Concen: 3.98 ng

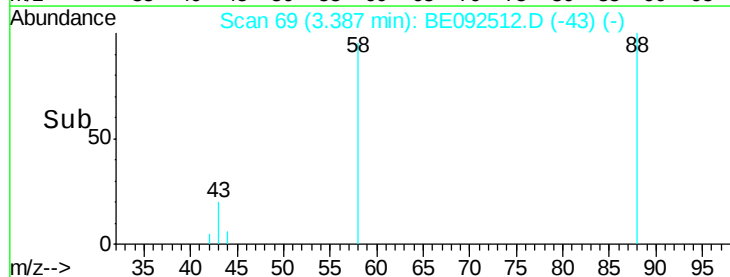
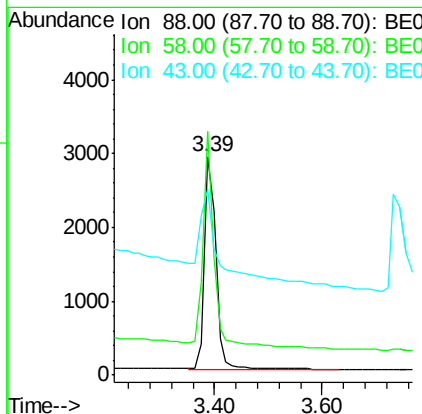
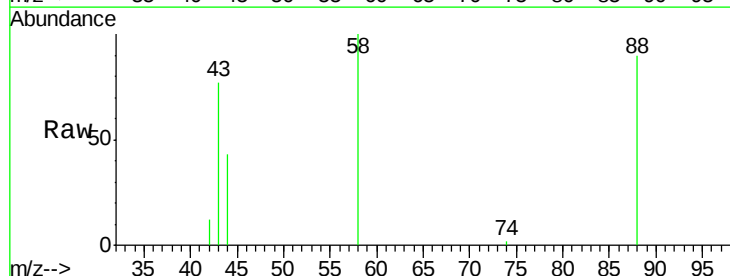
RT: 3.39 min Scan# 69

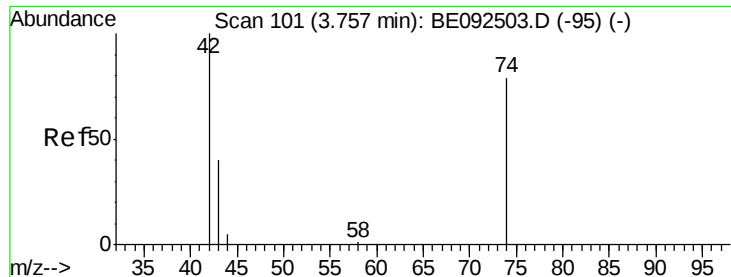
Delta R.T. -0.00 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Tgt Ion:	88	Resp:	4265
Ion Ratio	Lower	Upper	
88	100		
58	101.1	63.6	95.4#
43	87.5	28.0	42.0#





#3

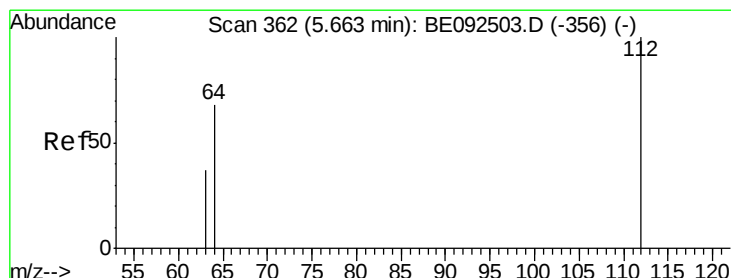
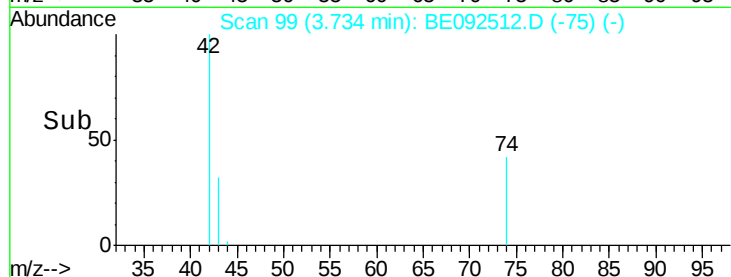
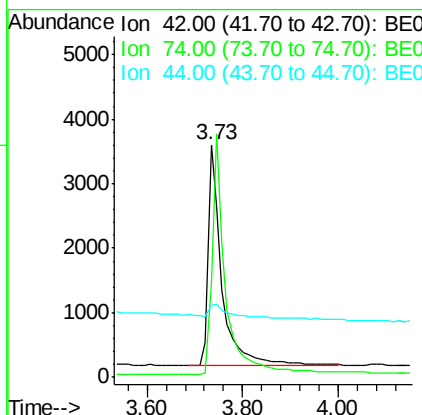
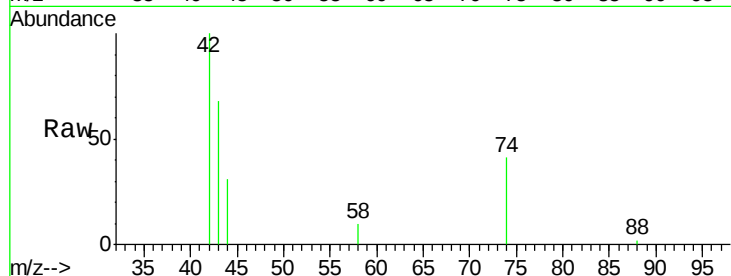
n-Nitrosodimethylamine
Concen: 4.24 ng
RT: 3.73 min Scan# 99
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
42	100		
74	110.0	86.0	129.0
44	12.3	5.1	7.7#

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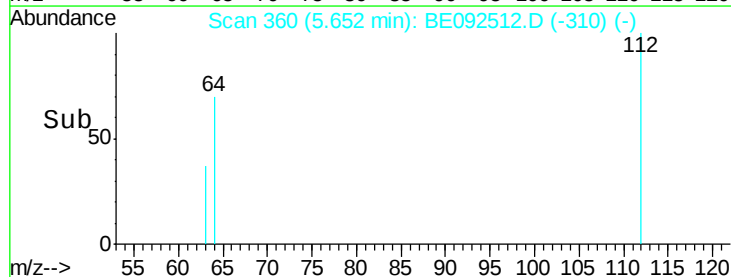
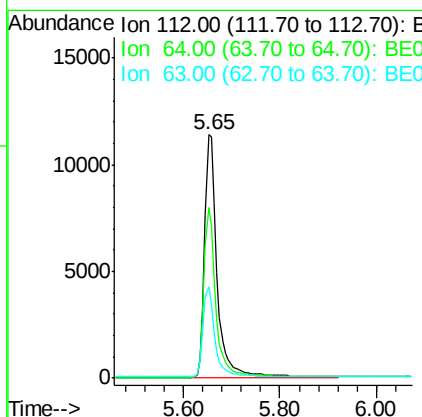
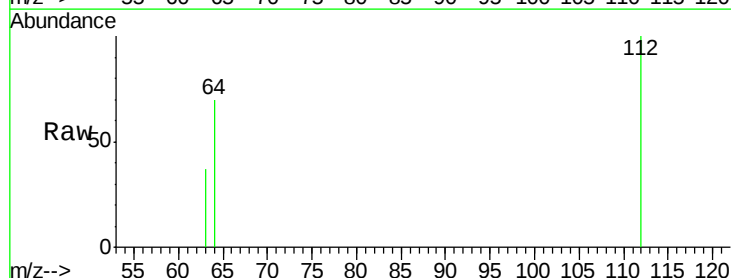
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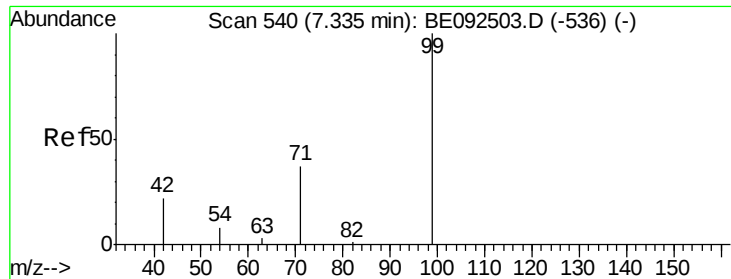


#4

2-Fluorophenol
Concen: 10.30 ng
RT: 5.65 min Scan# 360
Delta R.T. -0.01 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.1	53.5	80.3
63	35.7	27.9	41.9





#5

Phenol-d6

Concen: 10.79 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Instrument :

BNA_E

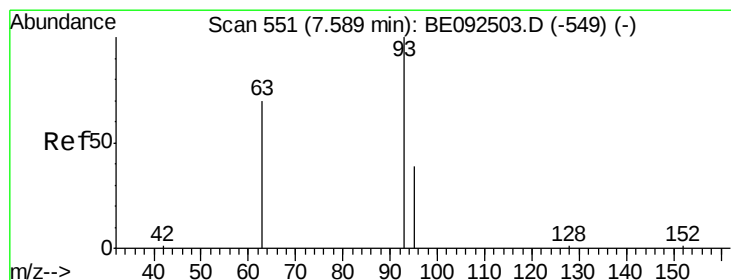
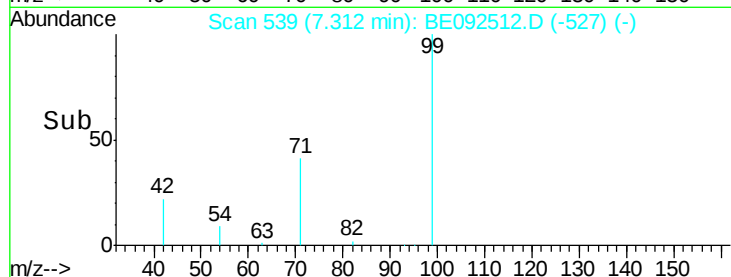
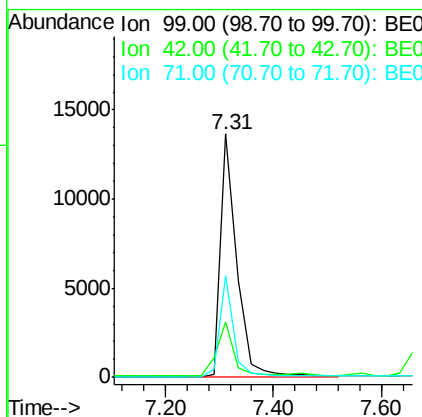
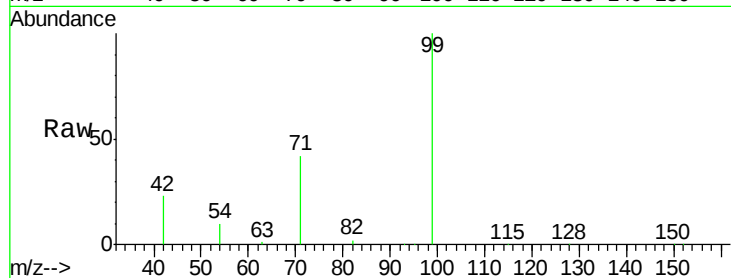
ClientSampleId :

PB94535BSD

Tot Ion:	99	Resp:	28653
Ion	Ratio	Lower	Upper
99	100		
42	22.7	16.0	24.0
71	35.3	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 3.99 ng

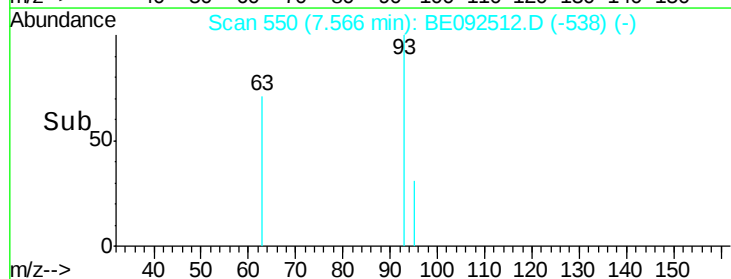
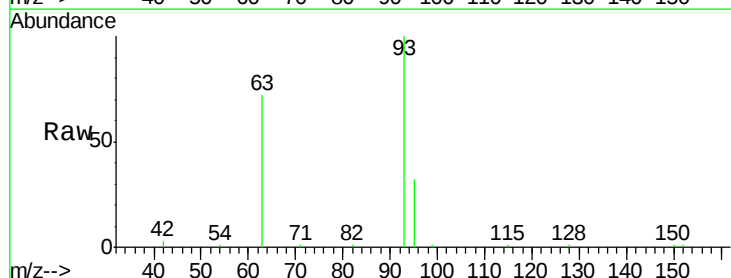
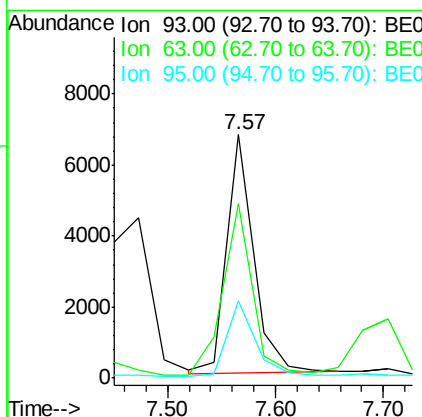
RT: 7.57 min Scan# 550

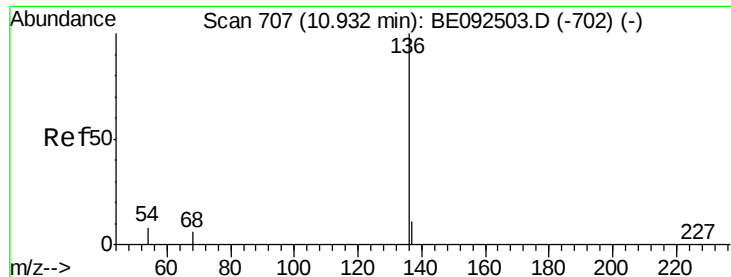
Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Tgt Ion:	93	Resp:	11614
Ion	Ratio	Lower	Upper
93	100		
63	79.7	71.6	107.4
95	34.2	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Instrument :

BNA_E

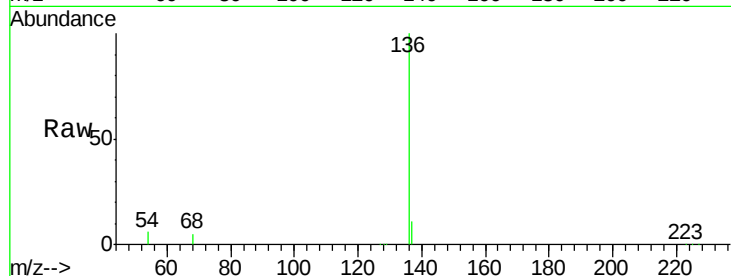
ClientSampleId :

PB94535BSD

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.5	8.2	12.4	
54	6.0	9.6	14.4	
68	4.7	6.7	10.1	

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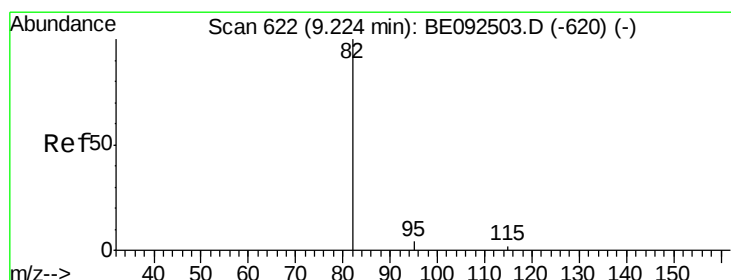
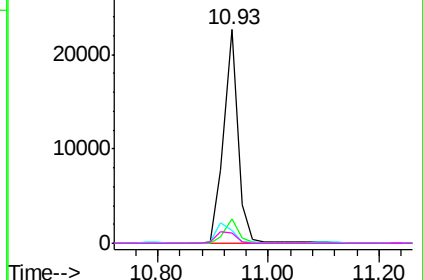
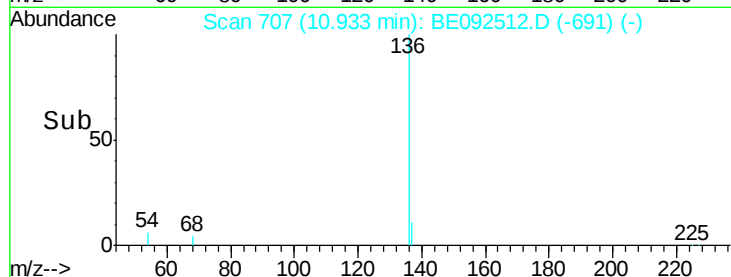


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 5.03 ng

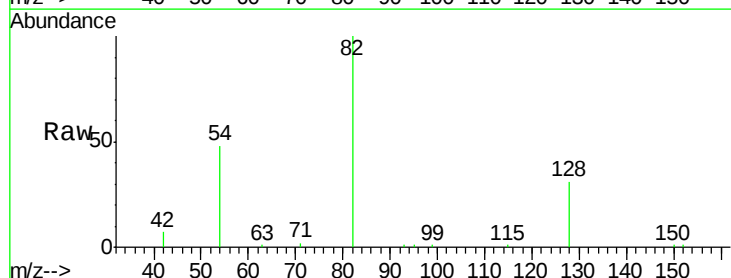
RT: 9.32 min Scan# 626

Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

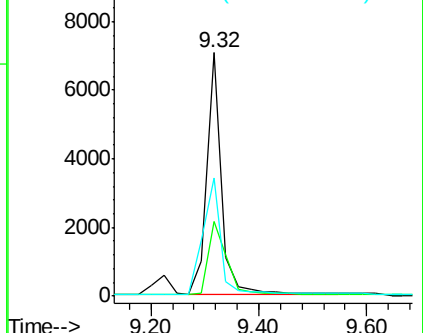
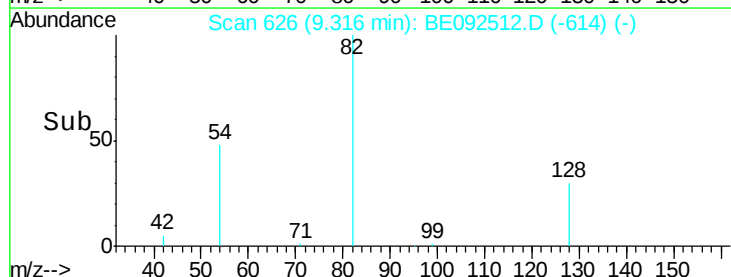
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	30.7	39.0	58.4	
54	48.4	44.8	67.2	

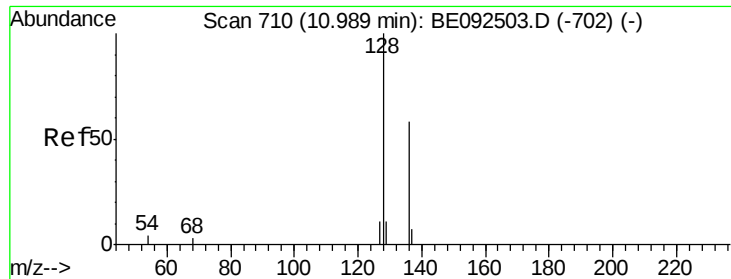


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 4.14 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Instrument :

BNA_E

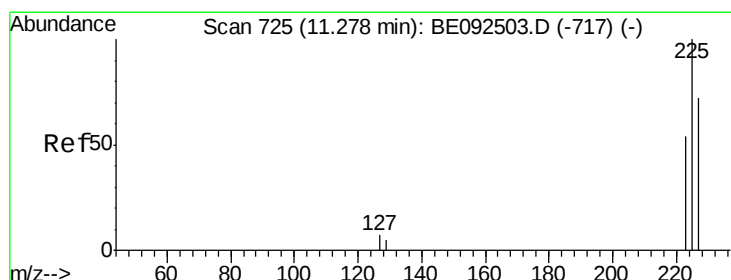
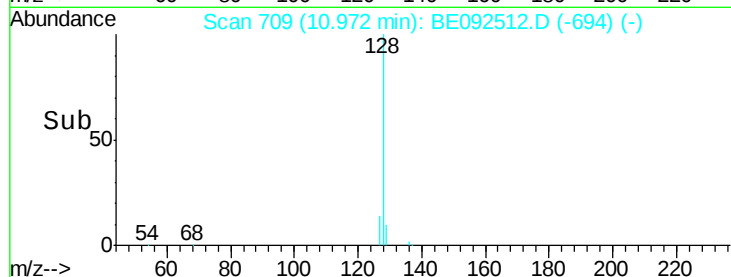
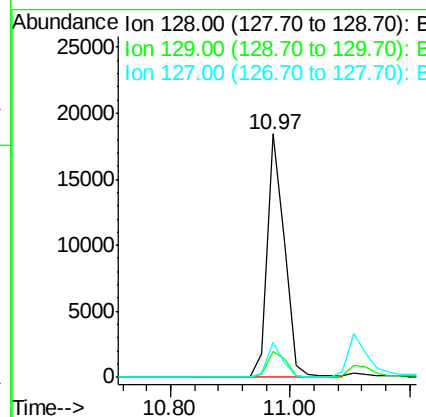
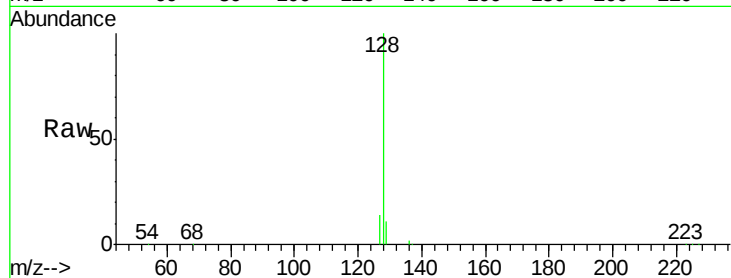
ClientSampleId :

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Tot Ion:	128	Resp:	36419
Ion Ratio	Lower	Upper	
128	100		
129	10.5	11.2	16.8#
127	14.1	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 4.16 ng

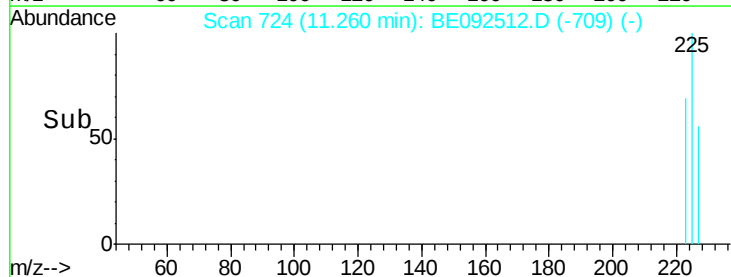
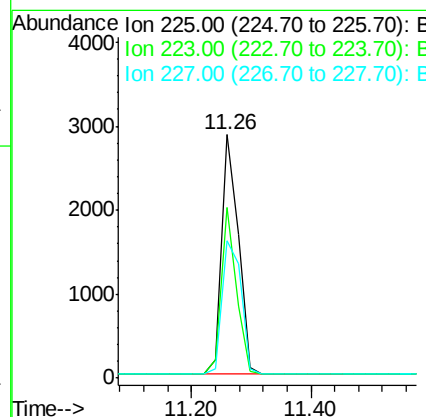
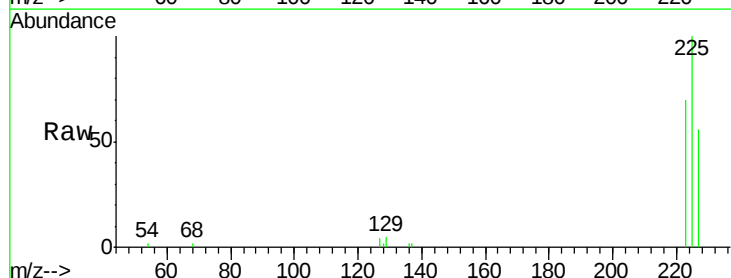
RT: 11.26 min Scan# 724

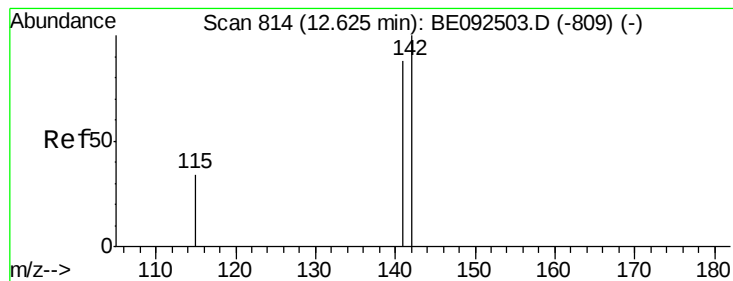
Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Tgt Ion:	225	Resp:	5554
Ion Ratio	Lower	Upper	
225	100		
223	63.2	50.6	76.0
227	63.6	51.4	77.0





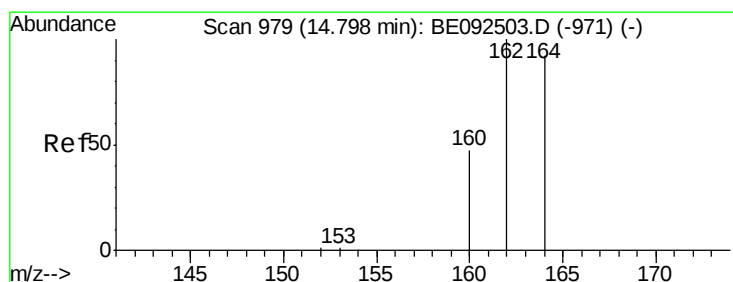
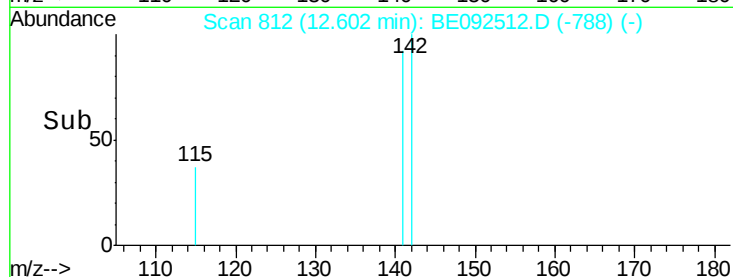
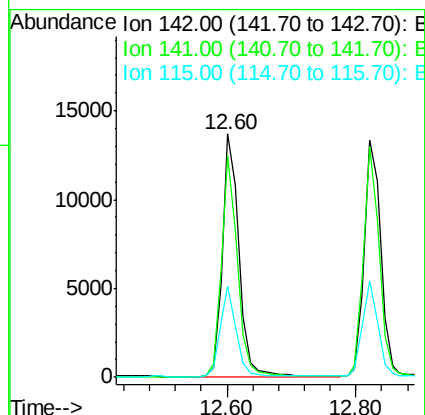
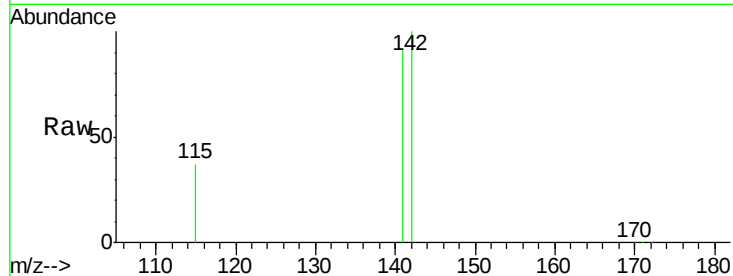
#11
2-Methylnaphthalene
Concen: 4.30 ng
RT: 12.60 min Scan# 812
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.7	110.5
115	37.3	34.0	51.0

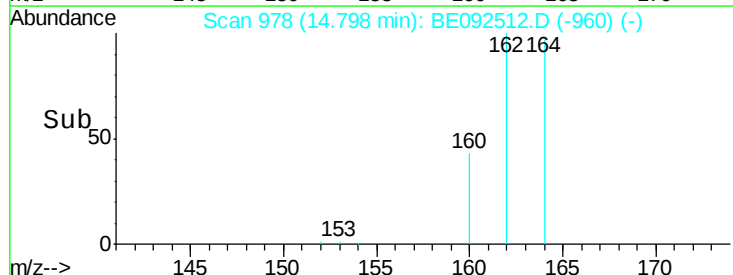
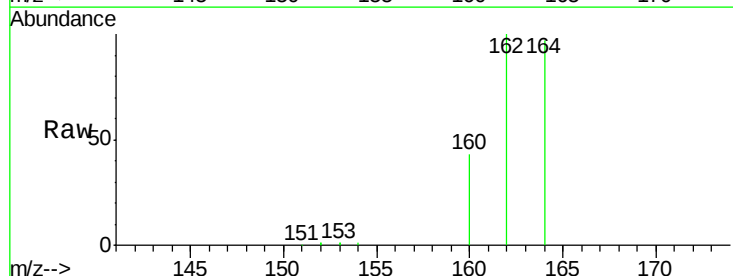
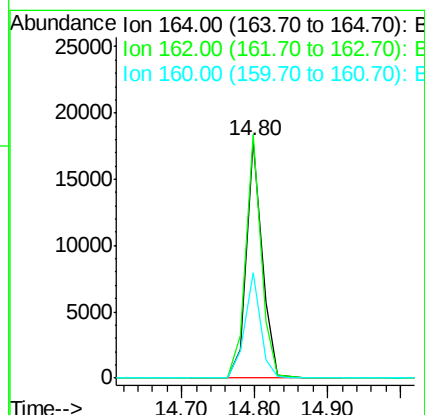
Manual Integrations
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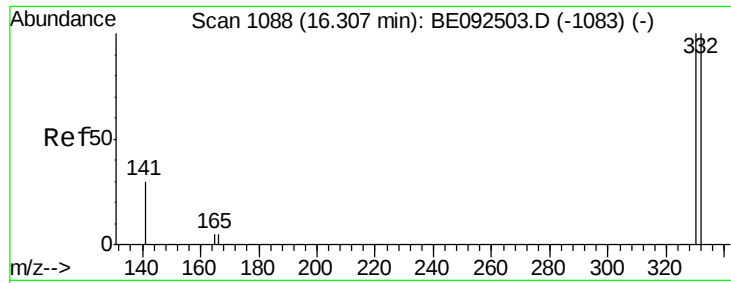
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.80 min Scan# 978
Delta R.T. -0.00 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	71.4	107.0
160	44.5	27.4	41.2





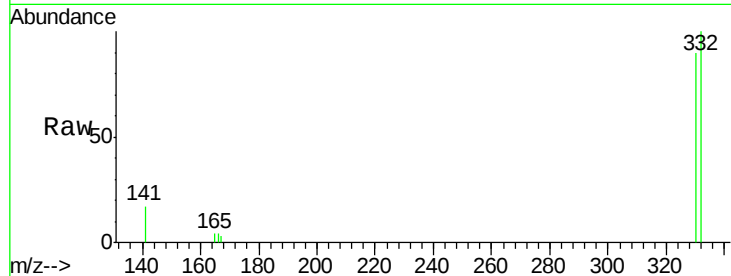
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 2,4,6-Tribromophenol
 Concen: 7.58 ng
 RT: 16.30 min Scan# 1086
 Delta R.T. -0.01 min
 Lab File: BE092512.D
 Acq: 8 Nov 2016 17:07

Instrument :
 BNA_E
 ClientSampleId :
 PB94535BSD

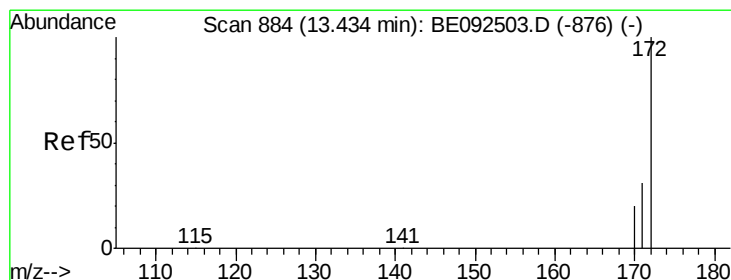
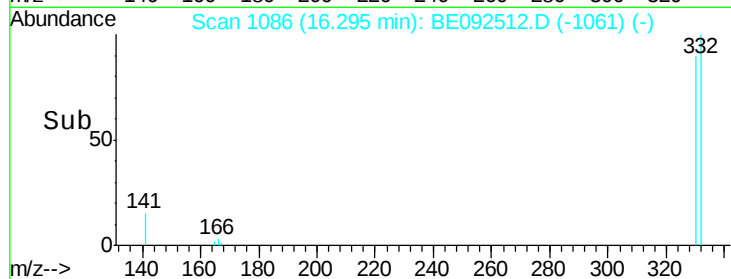
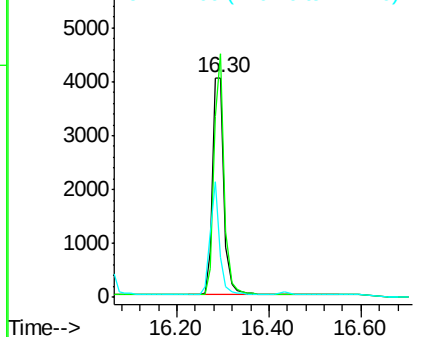
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.4	75.4	113.0
141	42.1	31.0	46.6

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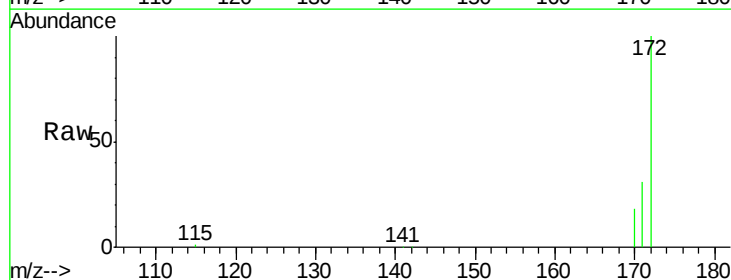


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

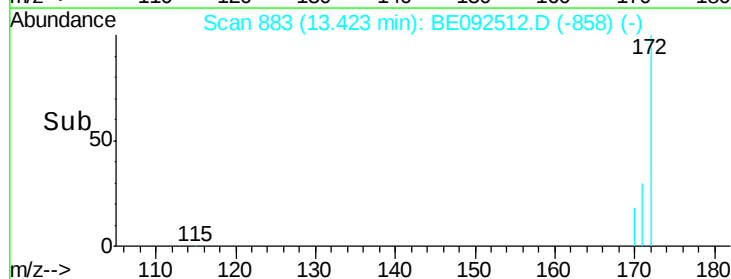
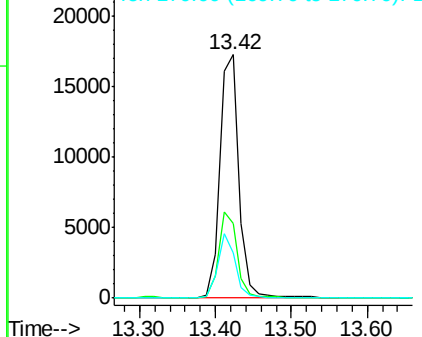


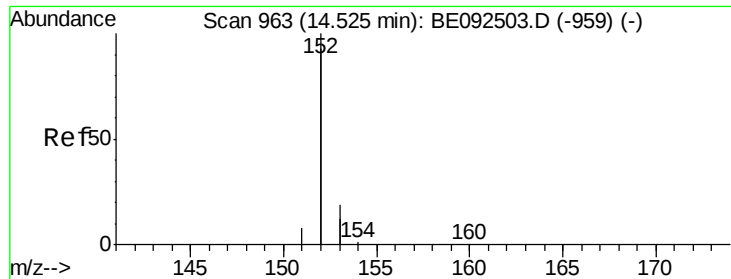
#14
 2-Fluorobiphenyl
 Concen: 4.58 ng
 RT: 13.42 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BE092512.D
 Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
172	100		
171	30.5	30.1	45.1
170	18.5	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: 4.27 ng

RT: 14.51 min Scan# 961

Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Instrument :

BNA_E

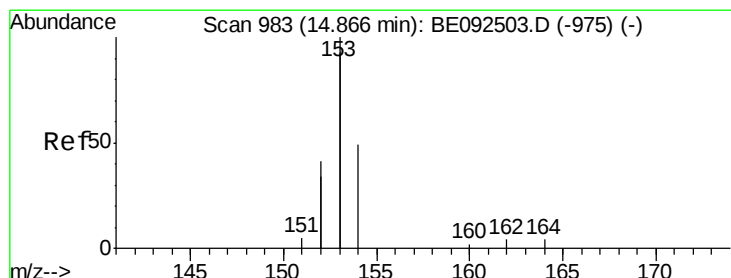
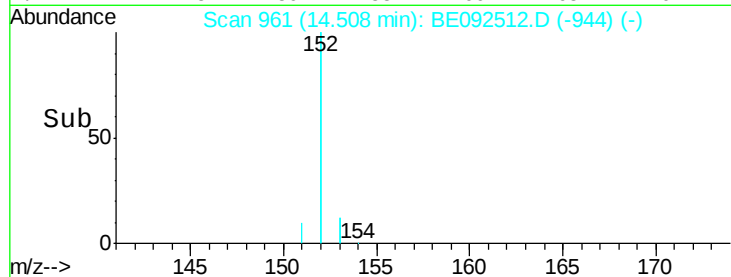
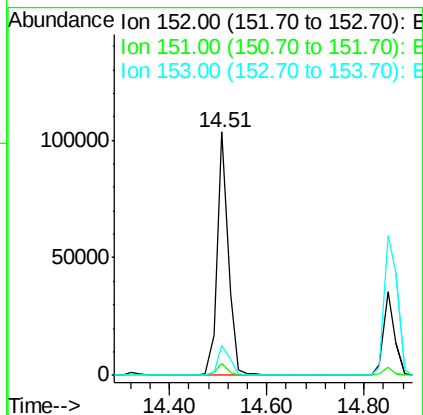
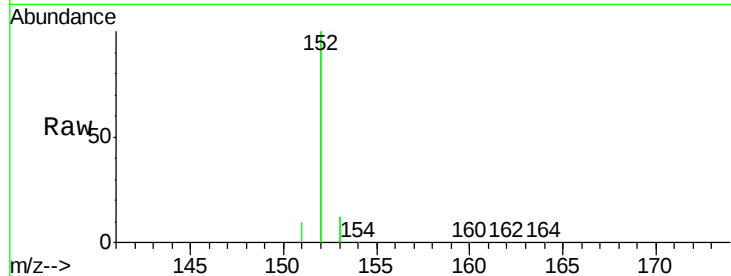
ClientSampleId :

PB94535BSD

Tot Ion:	152	Resp:	162688
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	13.0	10.4	15.6

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#16

Acenaphthene

Concen: 3.92 ng

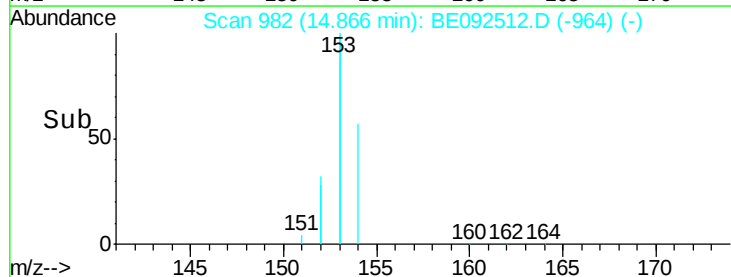
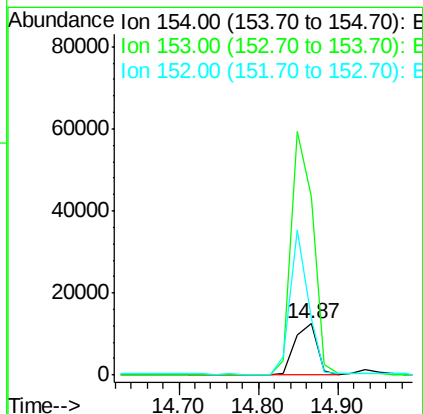
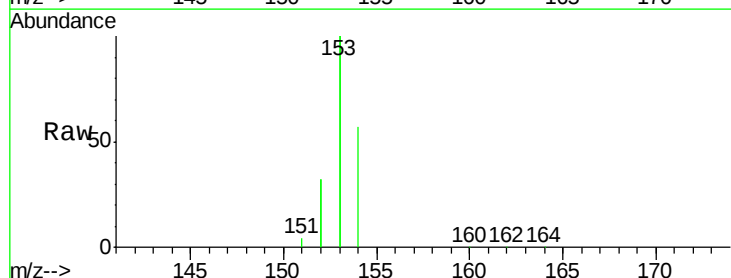
RT: 14.87 min Scan# 982

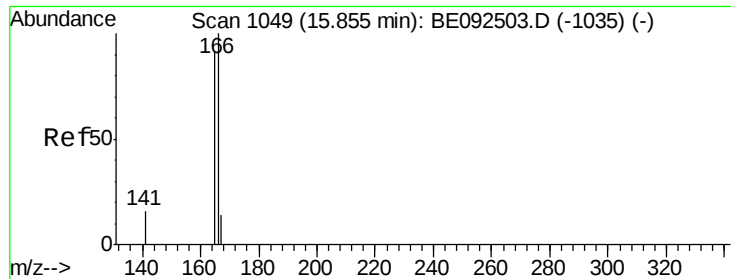
Delta R.T. -0.00 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Tgt Ion:	154	Resp:	24148
Ion Ratio	Lower	Upper	
154	100		
153	460.5	350.8	526.2
152	228.5	171.1	256.7





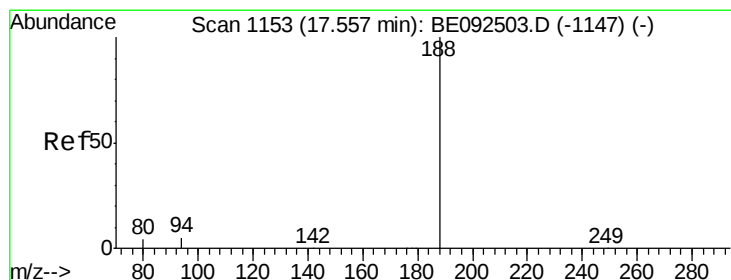
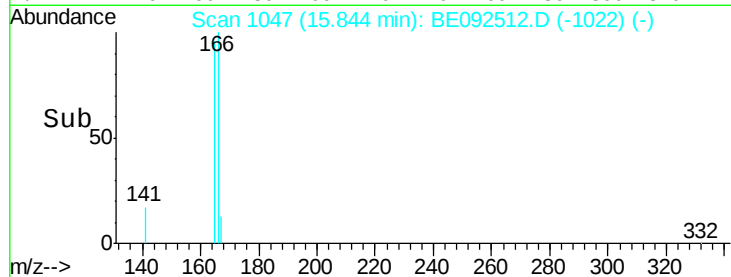
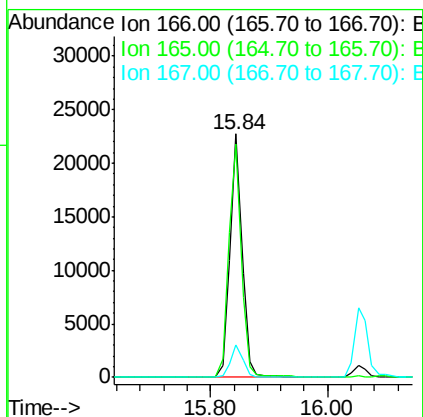
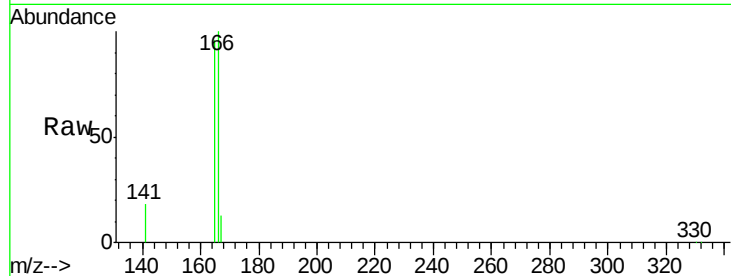
#17
Fluorene
Concen: 4.18 ng
RT: 15.84 min Scan# 1047
Delta R.T. -0.01 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.2	78.2	117.4
167	13.4	11.0	16.4

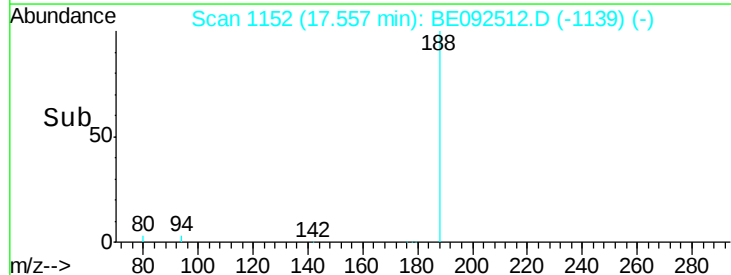
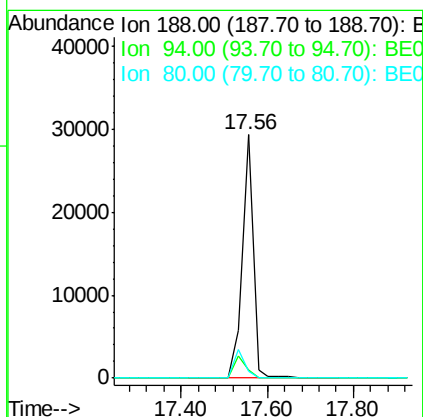
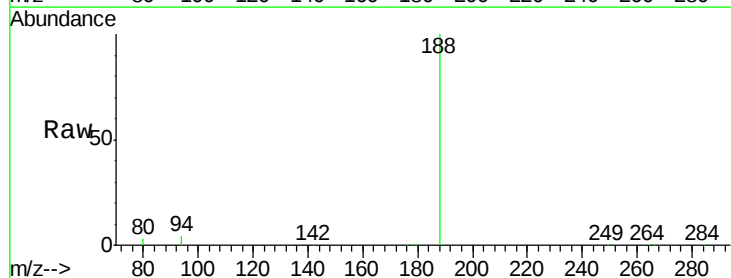
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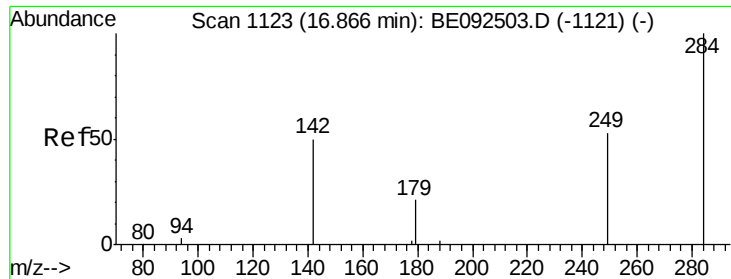
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1152
Delta R.T. -0.00 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
188	100		
94	3.6	3.2	4.8
80	2.9	2.6	3.8





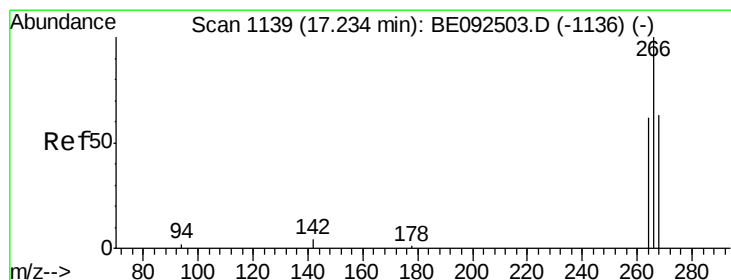
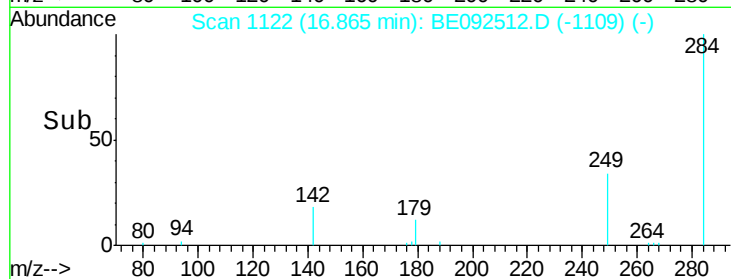
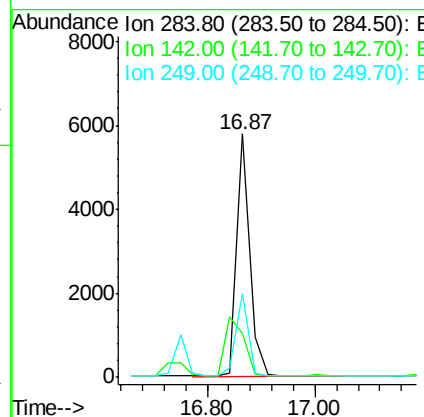
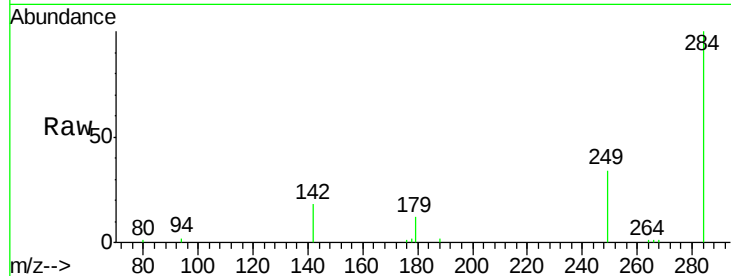
#19
Hexachlorobenzene
Concen: 5.01 ng
RT: 16.87 min Scan# 1122
Delta R.T. -0.00 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	33.2	27.9	41.9

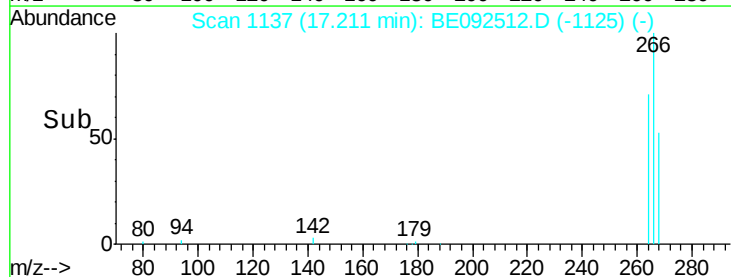
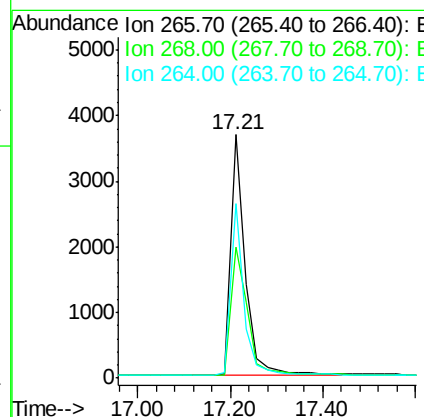
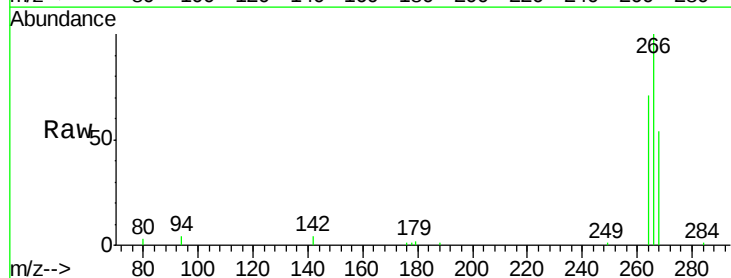
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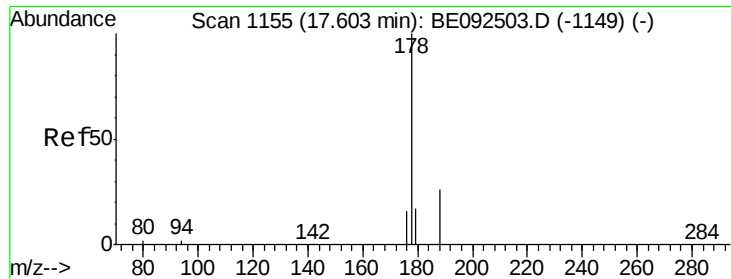
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#20
Pentachlorophenol
Concen: 14.21 ng
RT: 17.21 min Scan# 1137
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
266	100		
268	53.8	62.5	93.7#
264	71.5	57.2	85.8





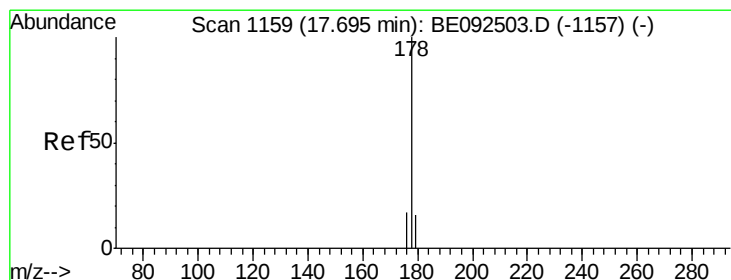
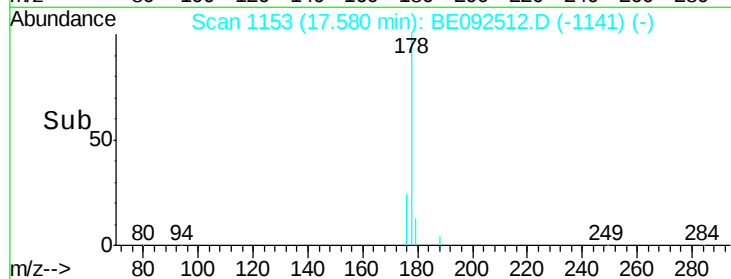
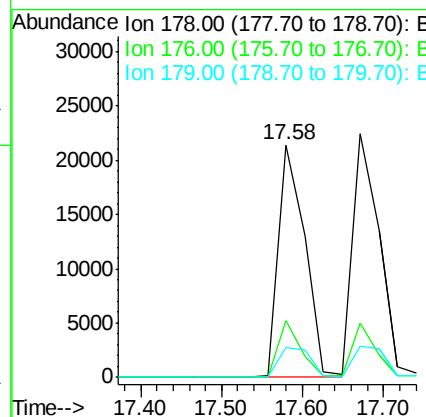
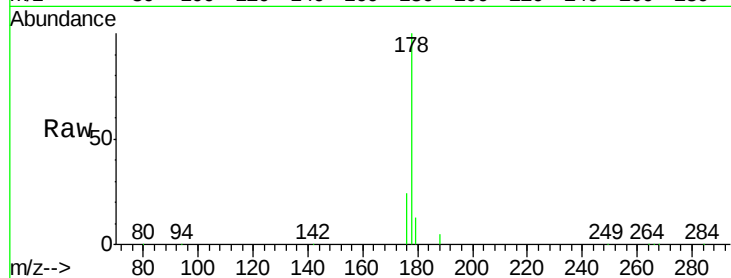
#21
Phenanthrene
Concen: 4.43 ng
RT: 17.58 min Scan# 1153
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.8	23.8
179	15.2	16.0	24.0

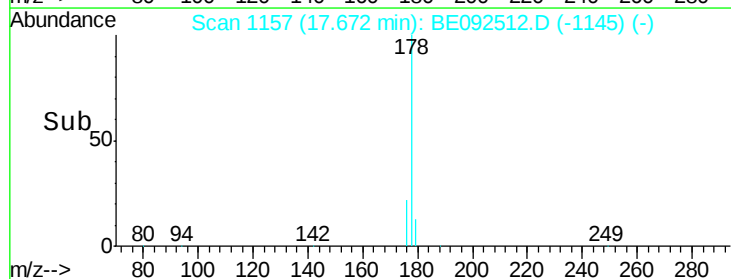
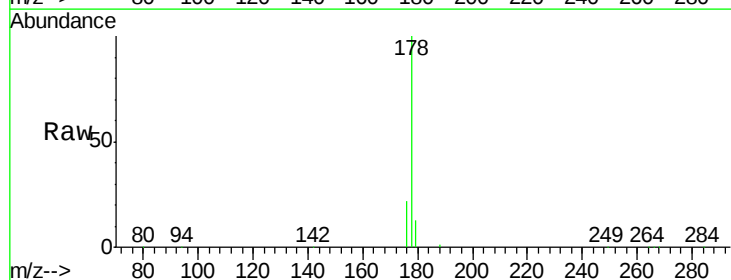
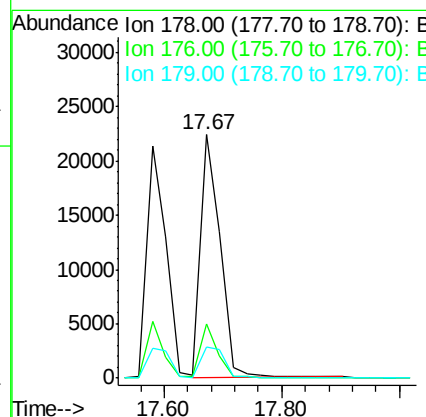
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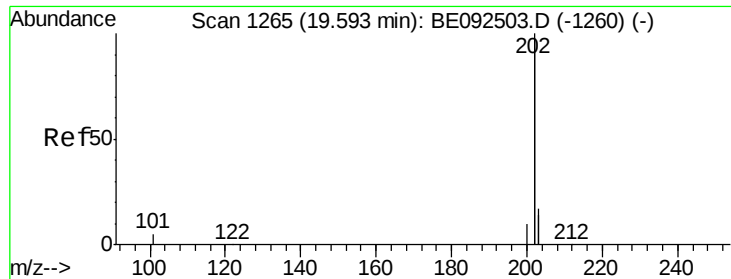
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#22
Anthracene
Concen: 4.85 ng
RT: 17.67 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.0	22.4
179	15.1	12.2	18.2





#23

Fluoranthene

Concen: 4.25 ng

RT: 19.59 min Scan# 1264

Delta R.T. 0.00 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Instrument :

BNA_E

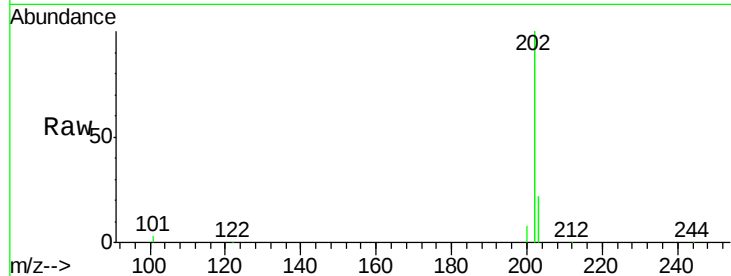
ClientSampleId :

PB94535BSD

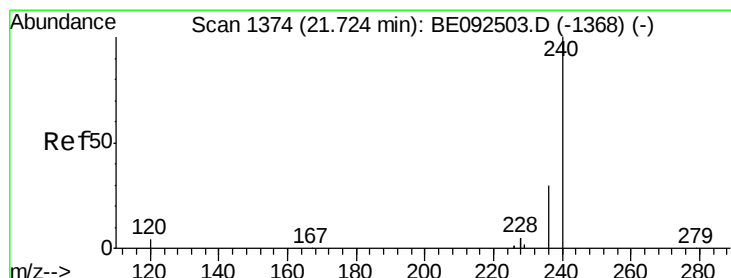
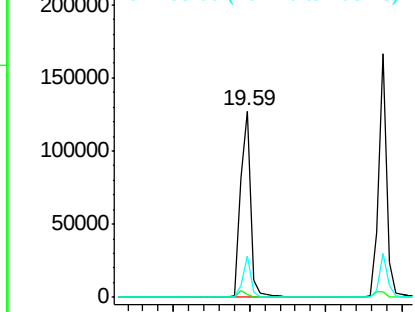
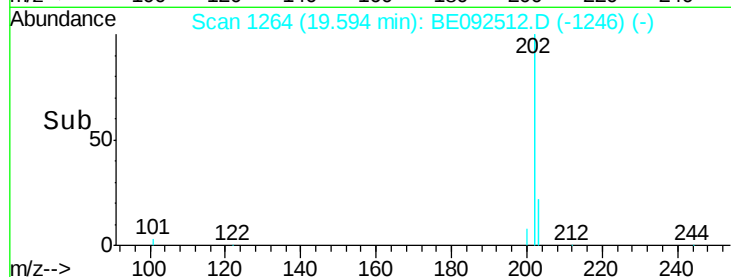
Tot Ion:	202	Resp:	234067
Ion Ratio		Lower	Upper
202	100		
101	2.9	2.2	3.4
203	17.9	13.7	20.5

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#24

Chrysene-d12

Concen: 5.00 ng

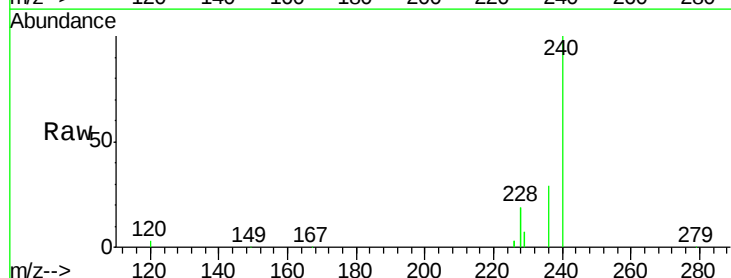
RT: 21.72 min Scan# 1373

Delta R.T. 0.00 min

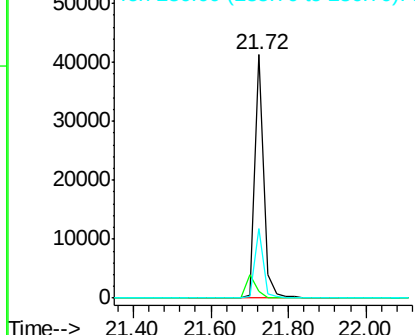
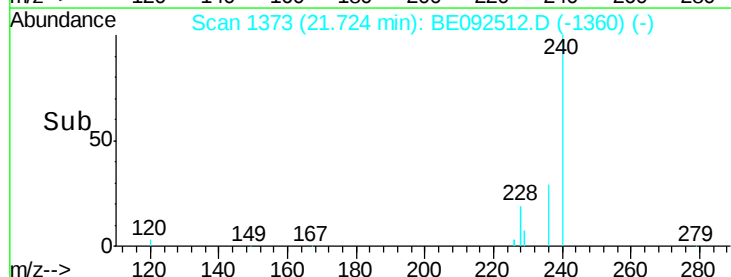
Lab File: BE092512.D

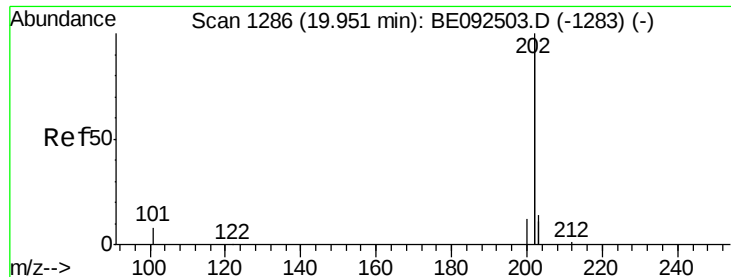
Acq: 8 Nov 2016 17:07

Tgt Ion:	240	Resp:	64045
Ion Ratio		Lower	Upper
240	100		
120	2.7	2.6	4.0
236	28.7	24.6	37.0



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





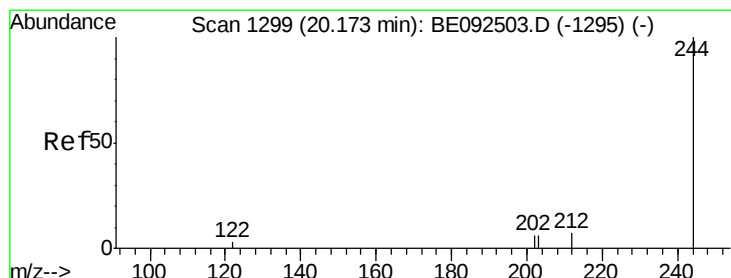
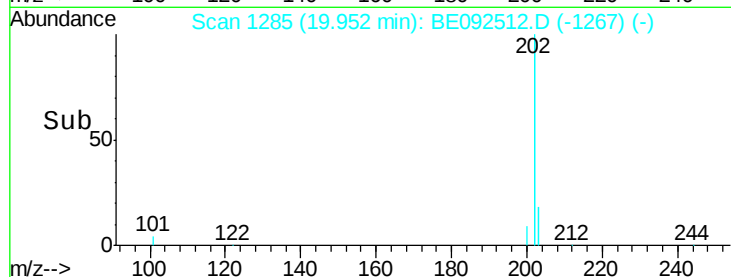
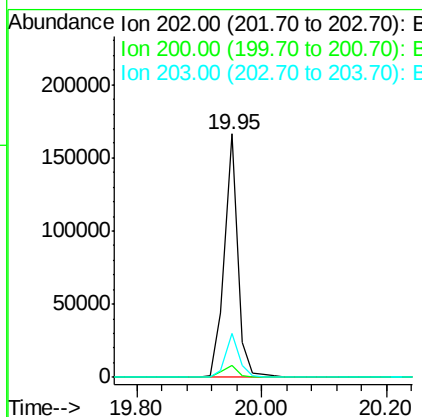
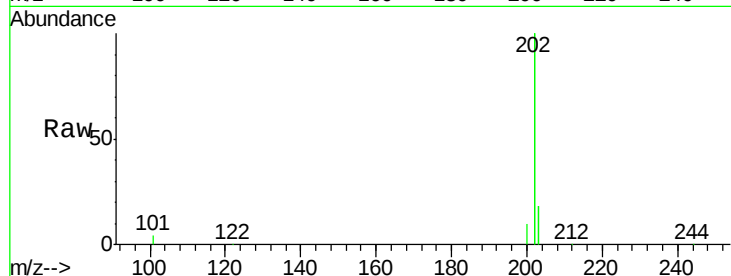
#25
Pvrene
Concen: 4.68 ng
RT: 19.95 min Scan# 1285
Delta R.T. 0.00 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.2	6.4
203	18.2	13.9	20.9

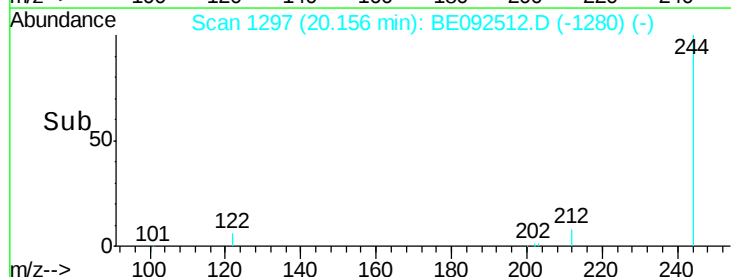
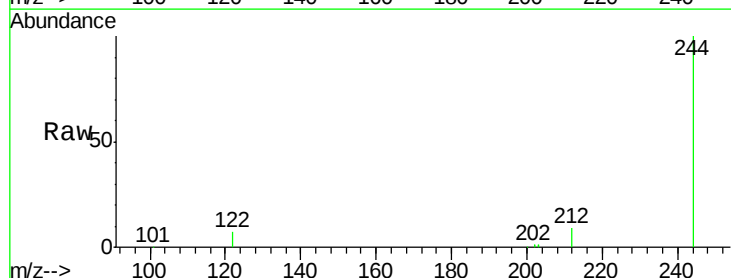
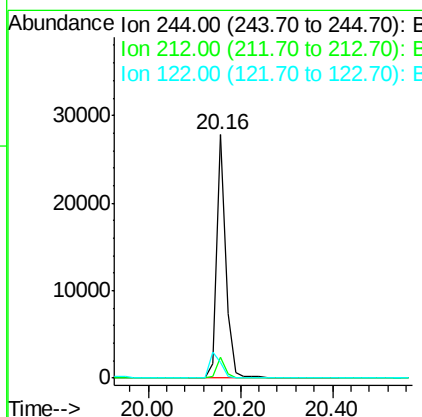
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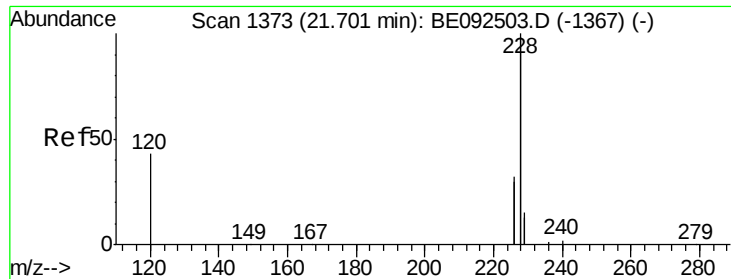
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#26
Terphenyl-d14
Concen: 4.98 ng
RT: 20.16 min Scan# 1297
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.5	6.7	10.1
122	6.6	3.6	5.4





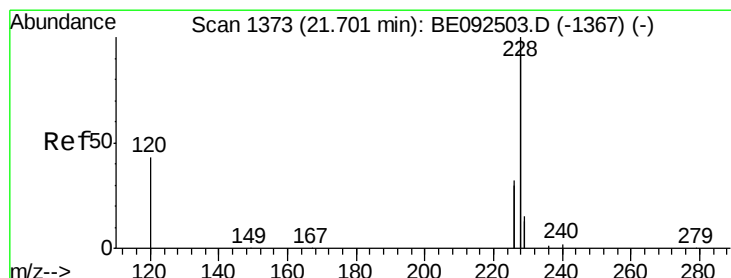
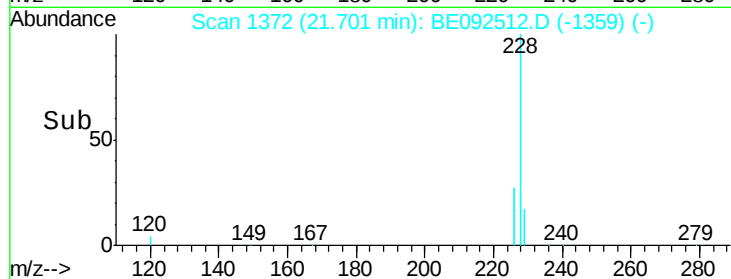
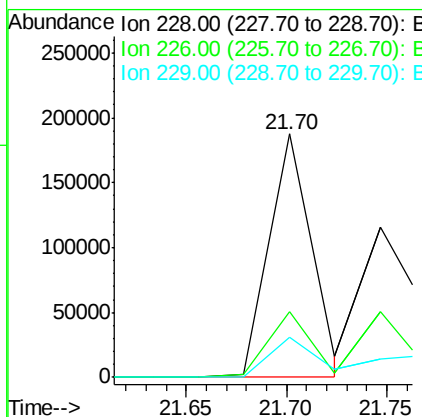
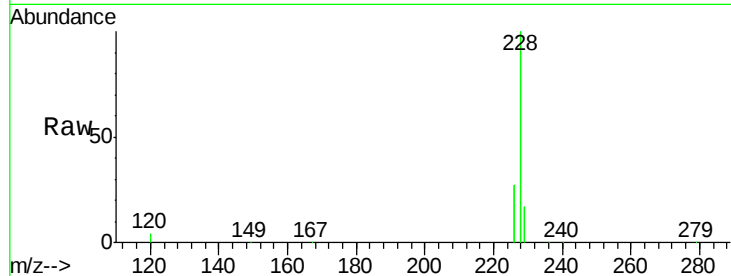
#27
Benzo(a)anthracene
Concen: 4.32 ng m
RT: 21.70 min Scan# 1372
Delta R.T. 0.00 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.8	23.6	35.4
229	16.7	13.3	19.9

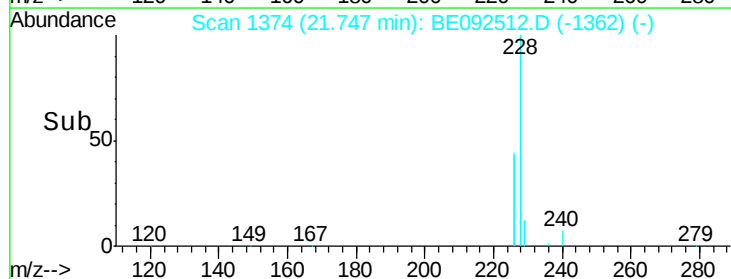
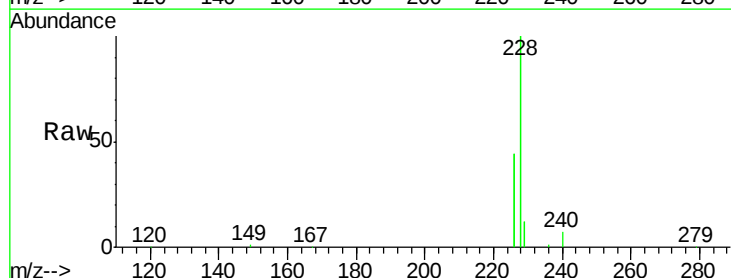
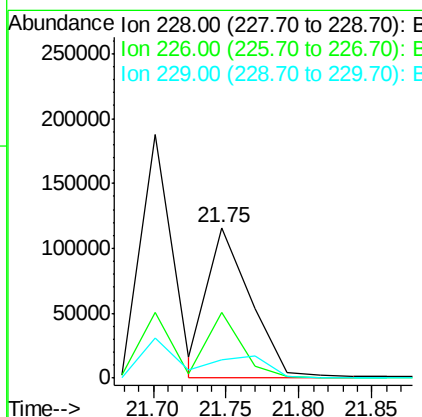
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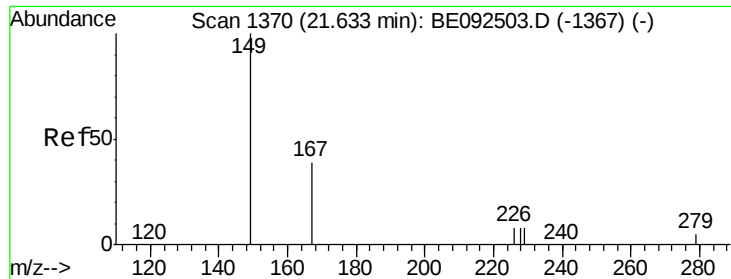
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#28
Chrysene
Concen: 4.66 ng m
RT: 21.75 min Scan# 1374
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	43.6	36.3	54.5
229	12.1	10.6	16.0





#29

Bis(2-ethylhexyl)phthalate

Concen: 4.03 ng

RT: 21.61 min Scan# 1368

Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Instrument :

BNA_E

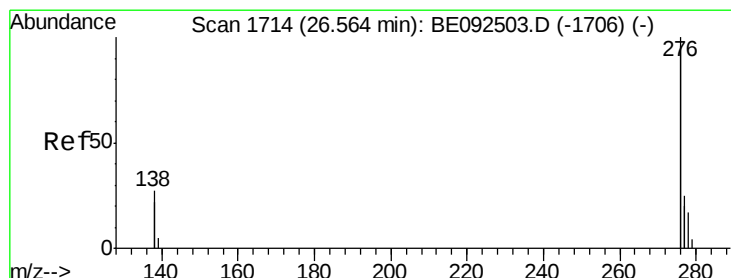
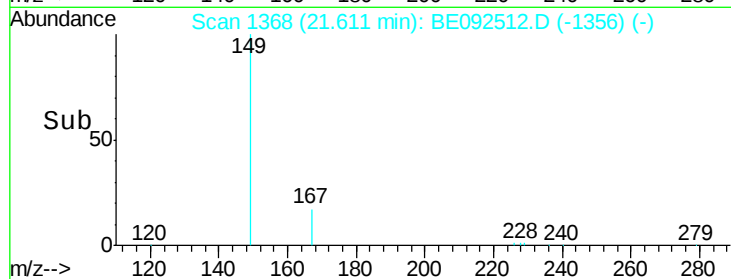
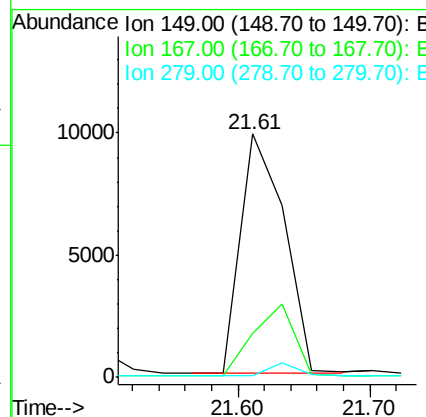
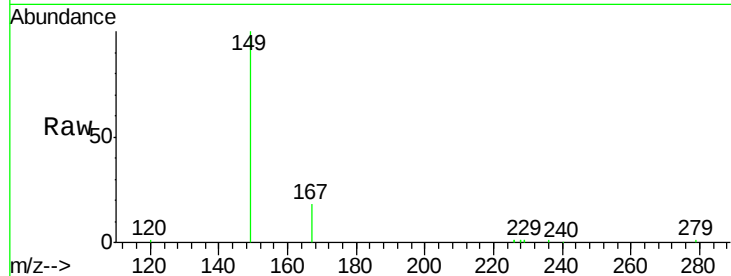
ClientSampled :

PB94535BSD

Tot Ion:	149	Resp:	22896
Ion Ratio	Lower	Upper	
149	100		
167	0.0	16.0	24.0#
279	0.0	16.0	24.0#

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#30

Indeno(1,2,3-cd)pyrene

Concen: 4.41 ng

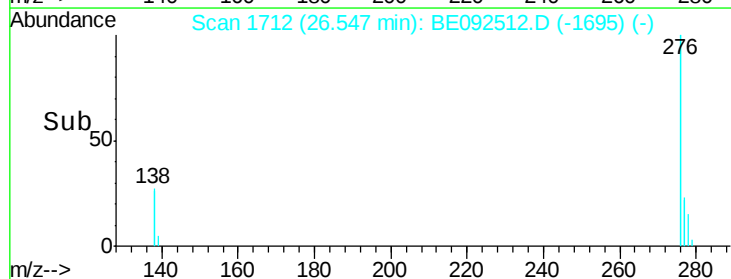
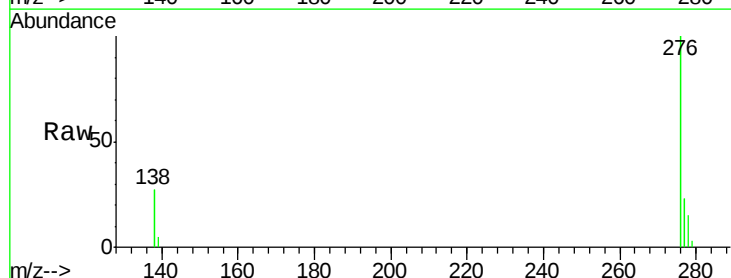
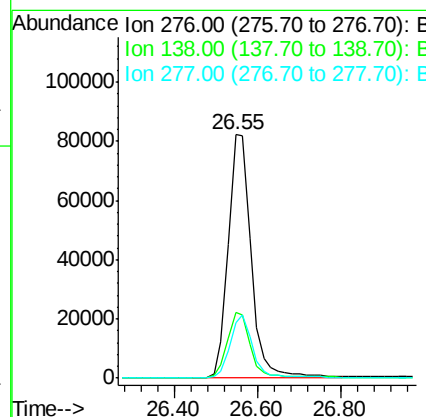
RT: 26.55 min Scan# 1712

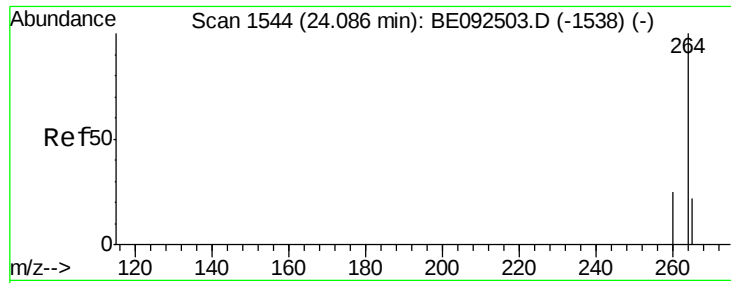
Delta R.T. -0.02 min

Lab File: BE092512.D

Acq: 8 Nov 2016 17:07

Tgt Ion:	276	Resp:	312143
Ion Ratio	Lower	Upper	
276	100		
138	26.8	20.3	30.5
277	24.7	19.7	29.5





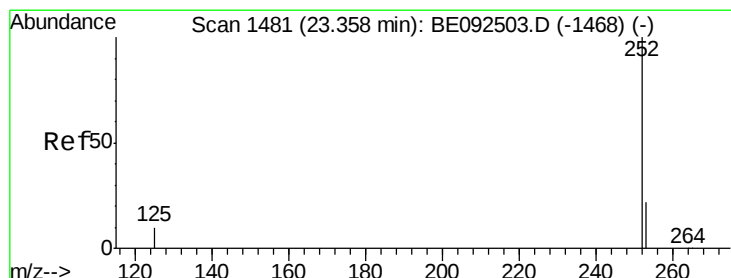
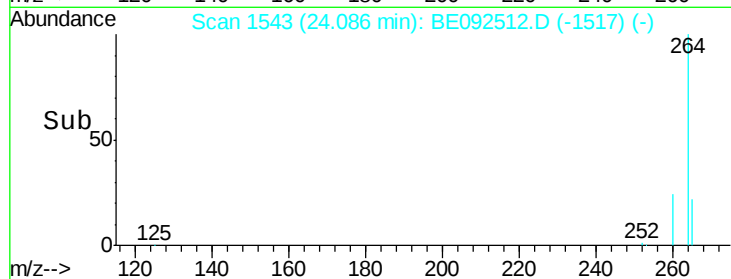
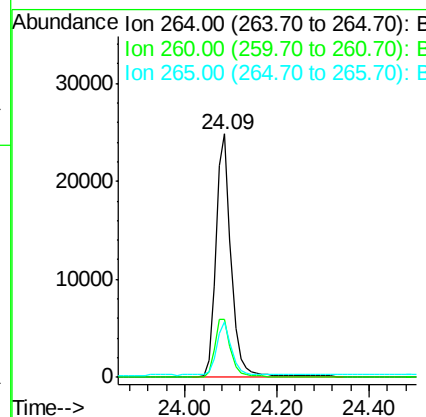
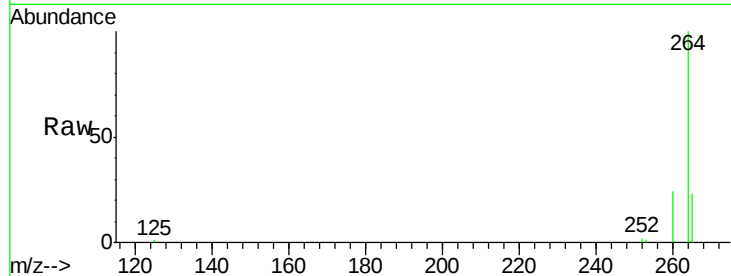
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.09 min Scan# 1543
Delta R.T. -0.00 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	20.1	30.1
265	23.0	17.9	26.9

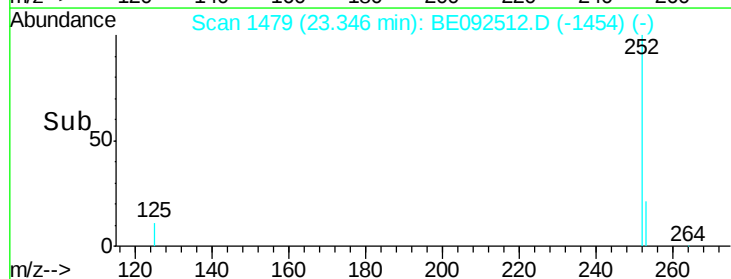
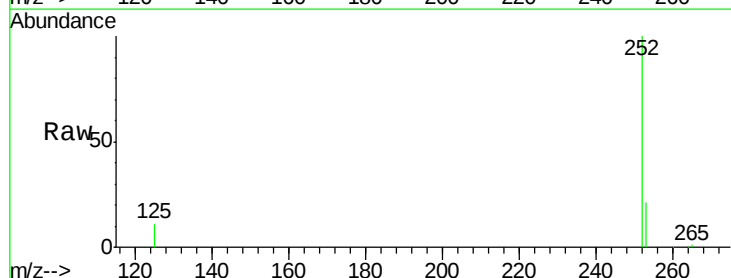
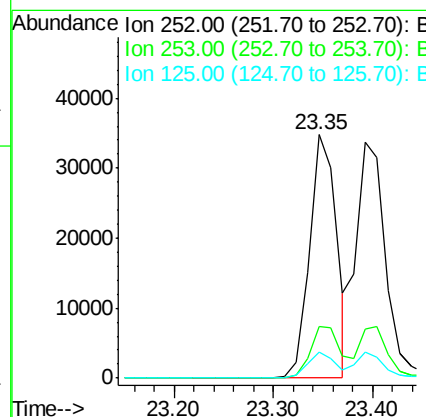
Manual Integrations
APPROVED

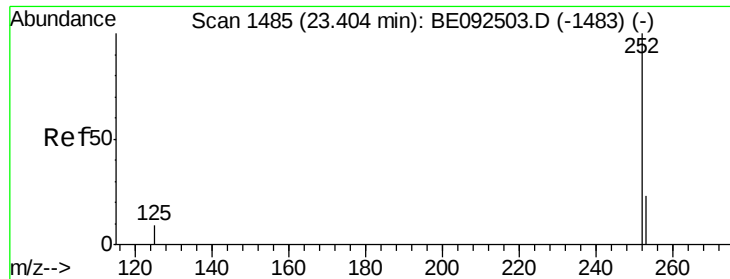
umangi
11/9/2016 10:58:55 AM



#32
Benzo(b)fluoranthene
Concen: 4.49 ng
RT: 23.35 min Scan# 1479
Delta R.T. -0.01 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.0	18.7	28.1
125	10.8	10.5	15.7





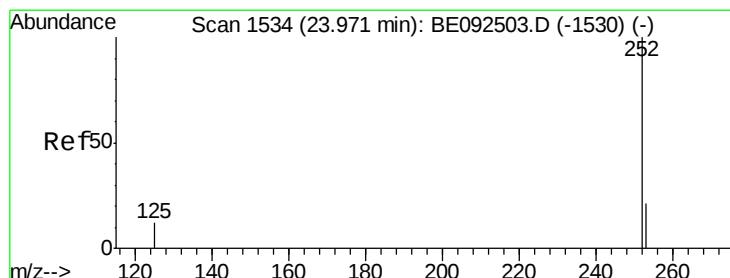
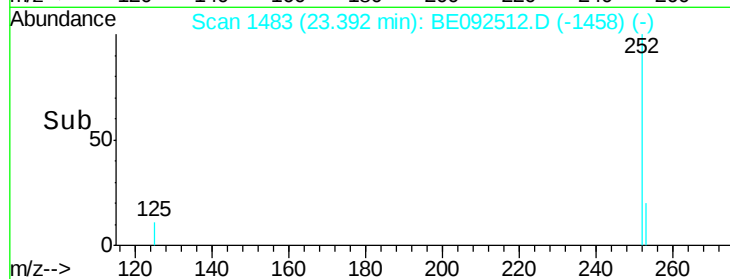
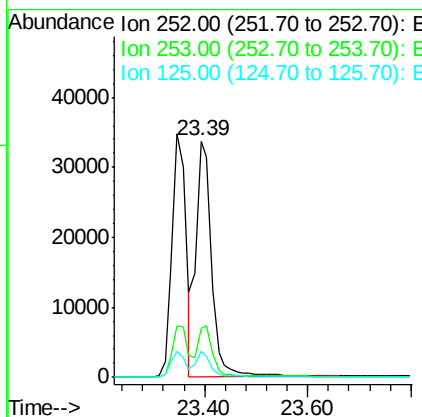
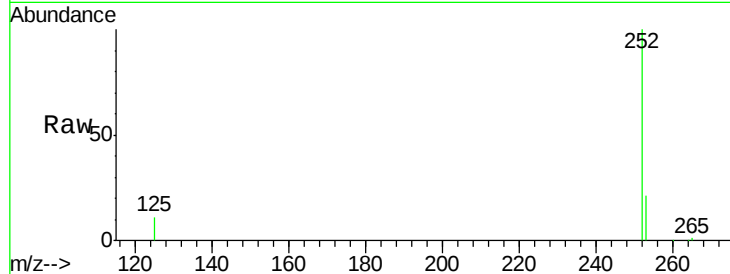
#33
Benzo(k)fluoranthene
Concen: 4.59 ng
RT: 23.39 min Scan# 1483
Delta R.T. -0.01 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	20.7	20.3	30.5
125	10.9	9.6	14.4

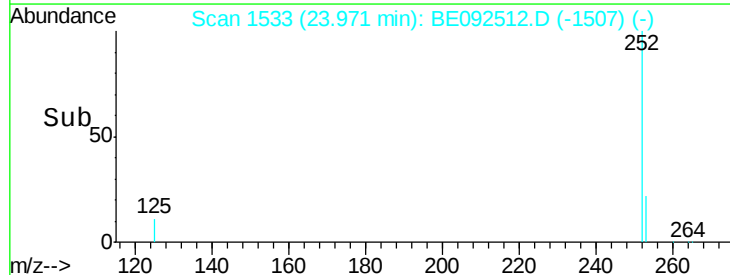
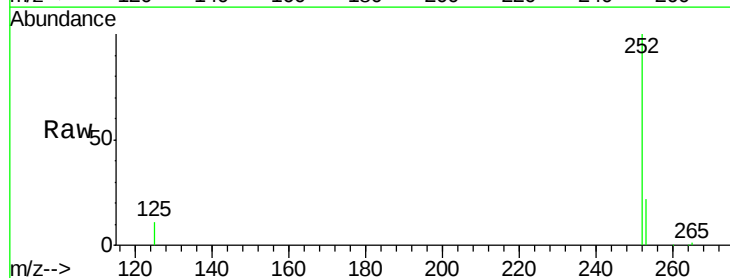
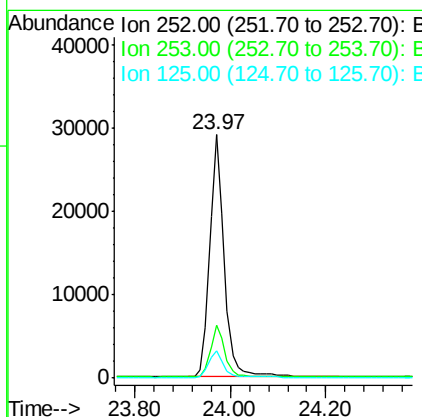
Manual Integrations
APPROVED

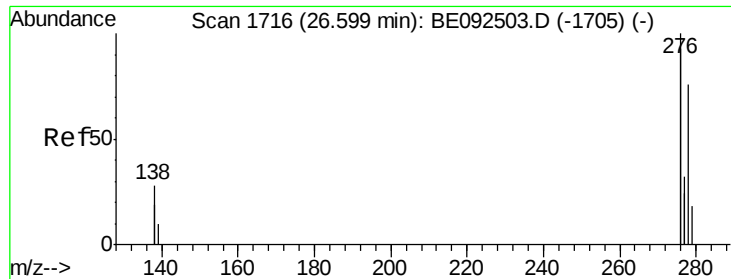
umangi
11/9/2016 10:58:55 AM



#34
Benzo(a)pyrene
Concen: 4.27 ng
RT: 23.97 min Scan# 1533
Delta R.T. -0.00 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.0	28.6
125	11.2	11.8	17.8#





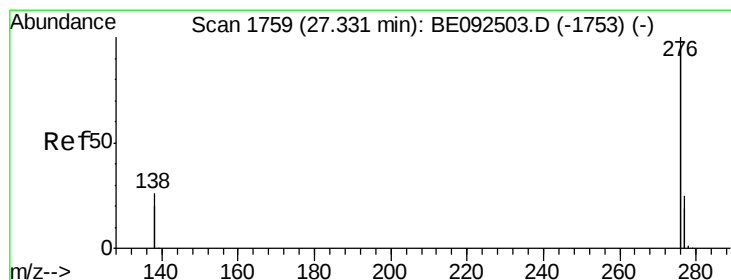
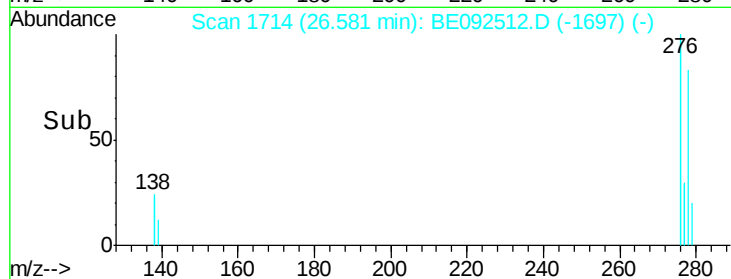
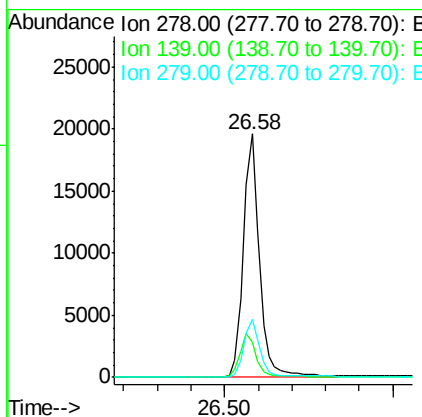
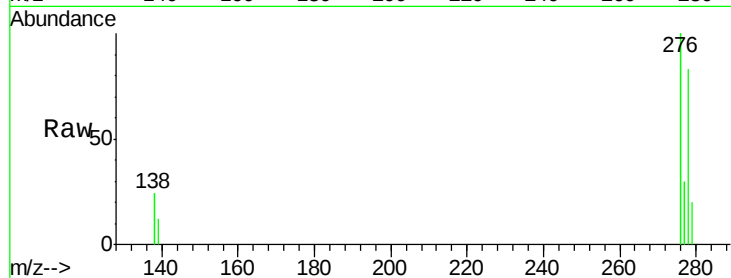
#35
Dibenzo(a,h)anthracene
Concen: 4.71 ng
RT: 26.58 min Scan# 1714
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Instrument :
BNA_E
ClientSampleId :
PB94535BSD

Tot Ion	Ratio	Lower	Upper
278	100		
139	14.5	13.8	20.8
279	24.0	21.4	32.2

Manual Integrations
APPROVED

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11/9/2016 10:58:55 AM



#36
Benzo(g,h,i)perylene
Concen: 4.76 ng
RT: 27.31 min Scan# 1757
Delta R.T. -0.02 min
Lab File: BE092512.D
Acq: 8 Nov 2016 17:07

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.5	19.8	29.8
138	24.6	19.8	29.6

