

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030617\
 Data File : BE092803.D
 Acq On : 7 Mar 2017 1:09
 Operator : SJ/MA
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

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 3/7/2017 4:23:39 PM

Quant Time: Mar 07 02:49:32 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE030617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 06 15:46:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	11218	5.00	ng	-0.02
7) Naphthalene-d8	10.88	136	51393	5.00	ng	-0.02
12) Acenaphthene-d10	14.75	164	34883	5.00	ng	-0.02
18) Phenanthrene-d10	17.51	188	79112	5.00	ng	0.00
24) Chrysene-d12	21.68	240	94379	5.00	ng	-0.02
31) Perylene-d12	24.01	264	89400	5.00	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.62	112	880	0.37	ng	-0.02
5) Phenol-d6	7.31	99	1005	0.36	ng	0.00
8) Nitrobenzene-d5	9.29	82	1154	0.37	ng	-0.02
13) 2,4,6-Tribromophenol	16.26	330	333	0.36	ng	-0.02
14) 2-Fluorobiphenyl	13.38	172	3295	0.40	ng	-0.02
26) Terphenyl-d14	20.12	244	5040	0.44	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.33	88	656	0.39	ng	96
3) n-Nitrosodimethylamine	3.71	42	686	0.36	ng	100
6) bis(2-Chloroethyl)ether	7.52	93	1148	0.37	ng	# 73
9) Naphthalene	10.93	128	4561	0.41	ng	99
10) Hexachlorobutadiene	11.20	225	668	0.42	ng	99
11) 2-Methylnaphthalene	12.58	142	2856	0.40	ng	93
15) Acenaphthylene	14.46	152	20752	0.39	ng	99
16) Acenaphthene	14.82	154	3073	0.41	ng	89
17) Fluorene	15.81	166	4154	0.41	ng	100
19) Hexachlorobenzene	16.82	284	1205	0.37	ng	96
20) Pentachlorophenol	17.19	266	286	0.32	ng	94
21) Phenanthrene	17.56	178	7399	0.39	ng	# 74
22) Anthracene	17.65	178	7133	0.37	ng	99
23) Fluoranthene	19.56	202	35428	0.38	ng	99
25) Pyrene	19.92	202	37218	0.44	ng	100
27) Benzo(a)anthracene	21.66	228	35729m	0.43	ng	
28) Chrysene	21.72	228	41314m	0.48	ng	
29) Bis(2-ethylhexyl)phthalate	21.59	149	3704	0.49	ng	# 68
30) Indeno(1,2,3-cd)pyrene	26.46	276	39100	0.42	ng	98
32) Benzo(b)fluoranthene	23.29	252	9048	0.38	ng	99
33) Benzo(k)fluoranthene	23.34	252	10285	0.43	ng	96
34) Benzo(a)pyrene	23.90	252	8863	0.41	ng	98
35) Dibenzo(a,h)anthracene	26.50	278	7891	0.38	ng	98
36) Benzo(g,h,i)perylene	27.23	276	34741	0.39	ng	98

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

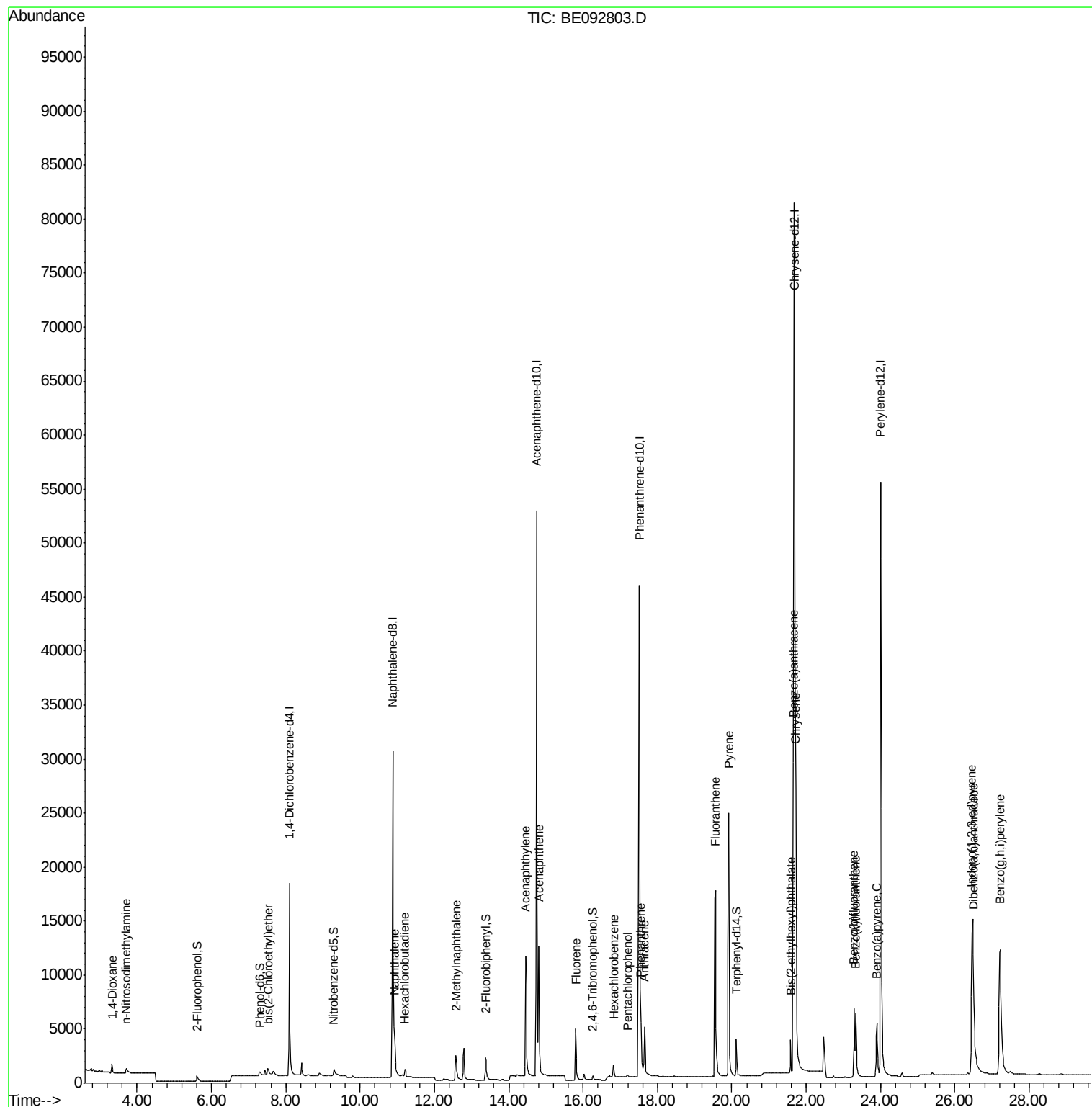
Data Path : Z:\HPCHEM1\BNA E\DATA\BE030617\
Data File : BE092803.D
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Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

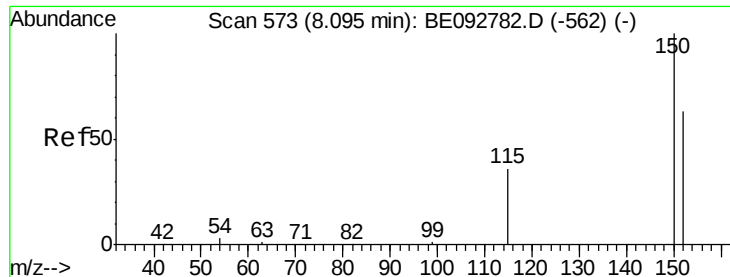
Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

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Quant Time: Mar 07 02:49:32 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE030617.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 06 15:46:01 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.09 min Scan# 573

Delta R.T. -0.02 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4EC

Tot Ion:152 Resp: 11218

Ion Ratio Lower Upper

152 100

150 157.4 106.0 159.0

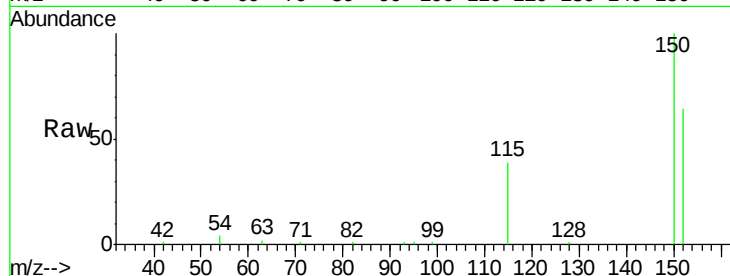
115 60.7 31.2 46.8#

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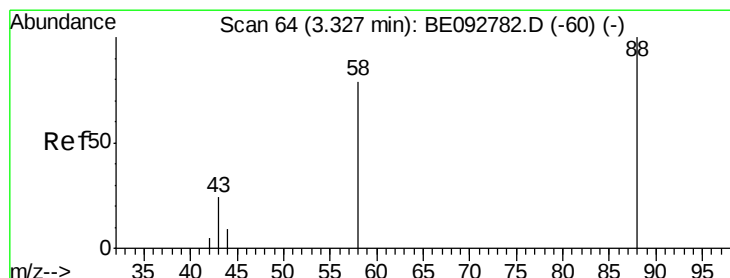
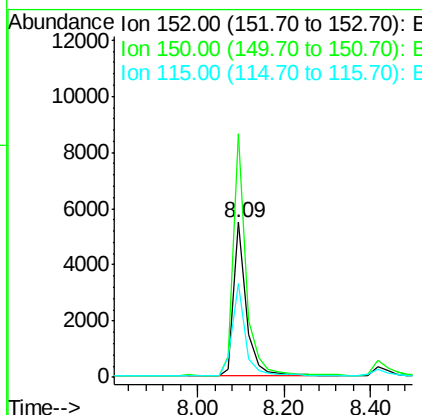
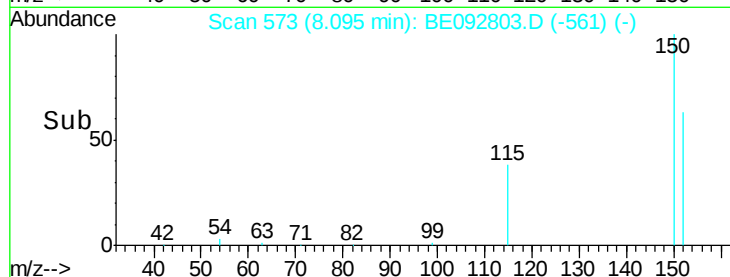
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.39 ng

RT: 3.33 min Scan# 64

Delta R.T. -0.01 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

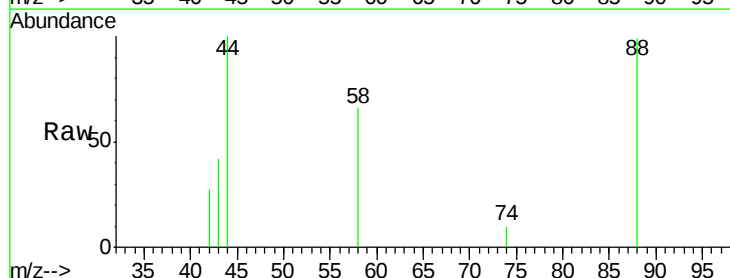
Tgt Ion: 88 Resp: 656

Ion Ratio Lower Upper

88 100

58 76.8 63.6 95.4

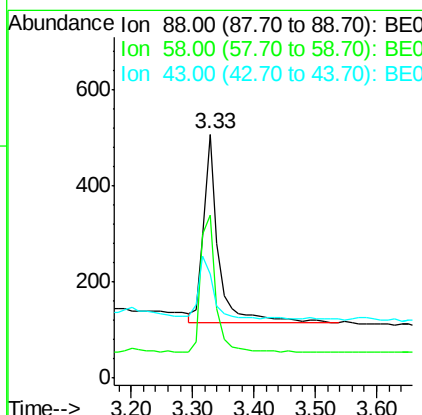
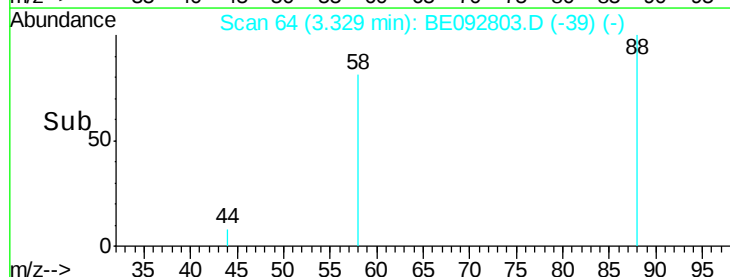
43 31.7 28.0 42.0

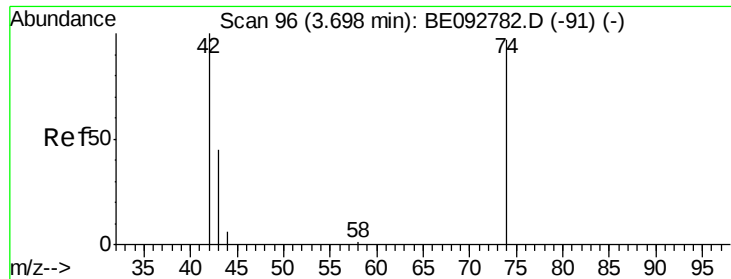


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.36 ng

RT: 3.71 min Scan# 97

Delta R.T. -0.02 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Instrument :

BNA_E

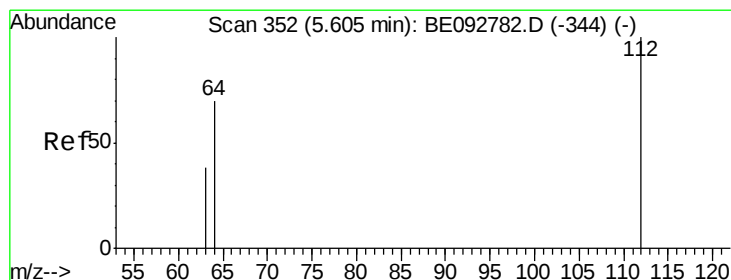
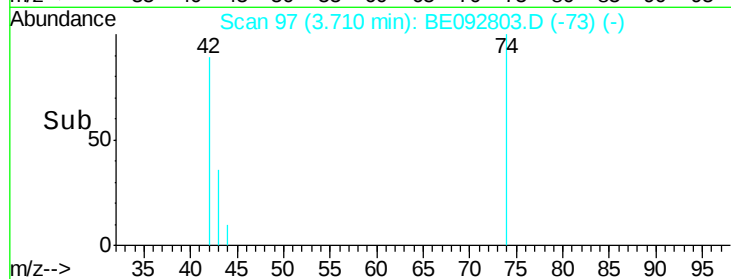
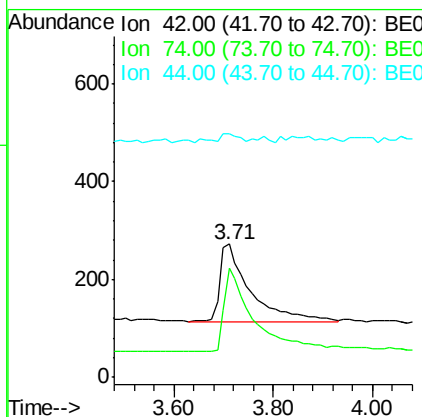
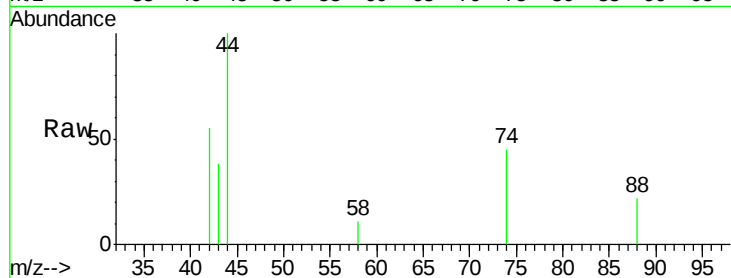
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	42	Resp:	686
Ion	Ratio	Lower	Upper
42	100		
74	107.1	86.0	129.0
44	7.4	5.1	7.7

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#4

2-Fluorophenol

Concen: 0.37 ng

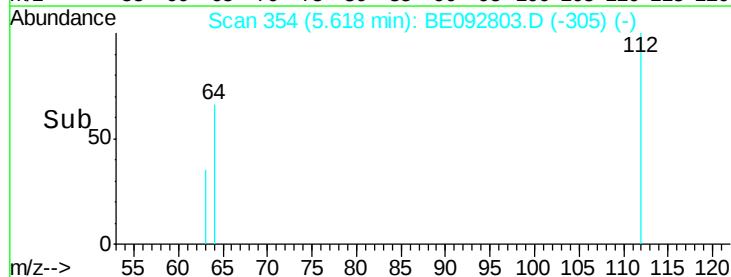
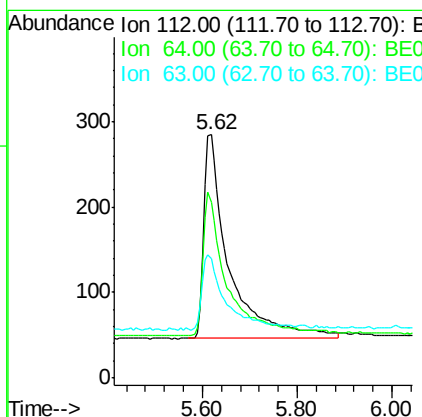
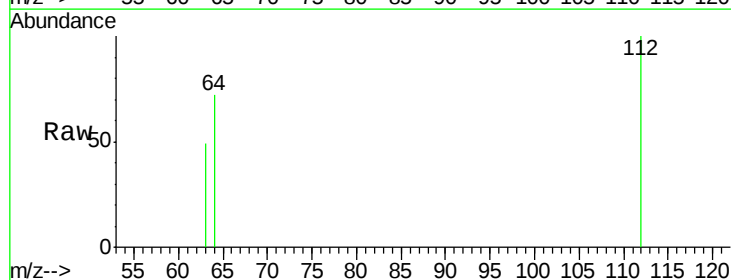
RT: 5.62 min Scan# 354

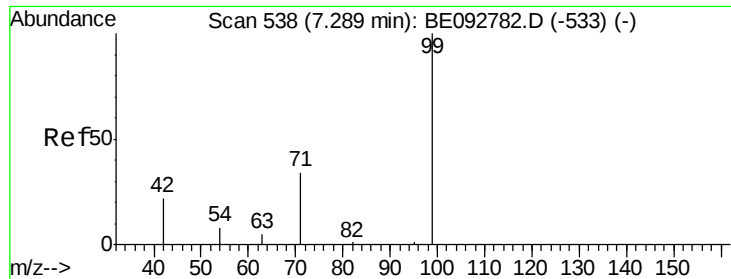
Delta R.T. -0.02 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Tgt Ion:	112	Resp:	880
Ion	Ratio	Lower	Upper
112	100		
64	67.3	53.5	80.3
63	35.6	27.9	41.9





#5

Phenol-d6

Concen: 0.36 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.00 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Instrument :

BNA_E

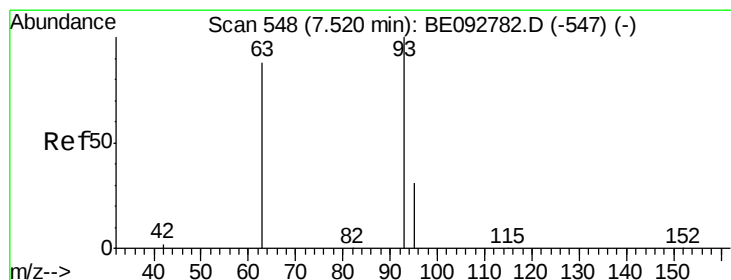
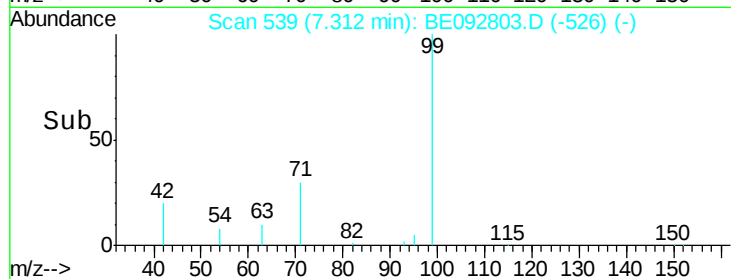
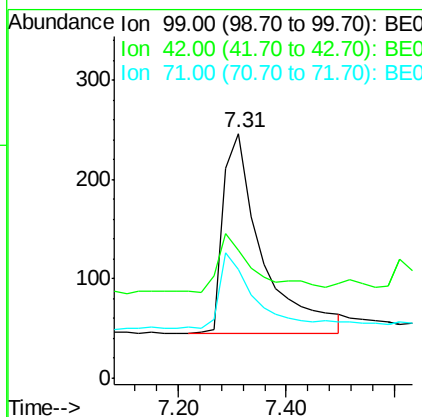
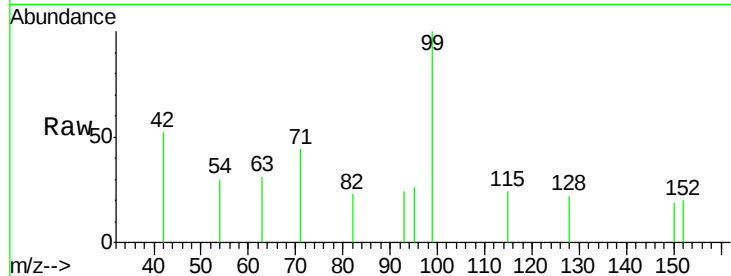
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	99	Resp:	1005
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: 0.37 ng

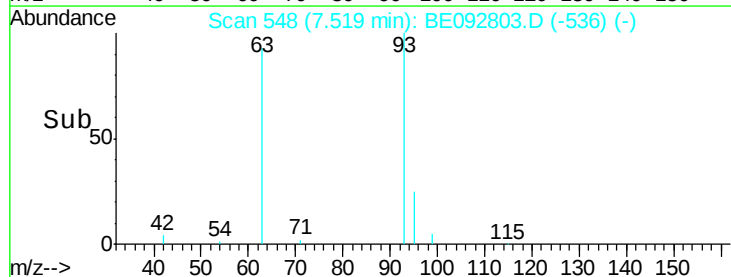
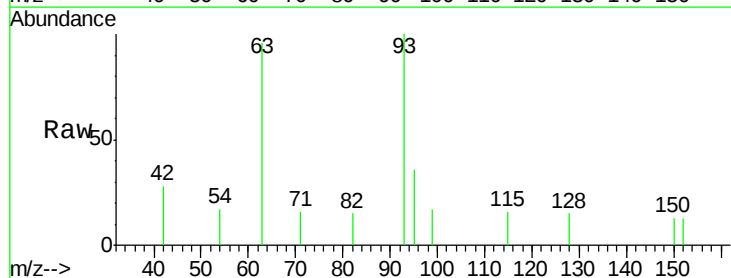
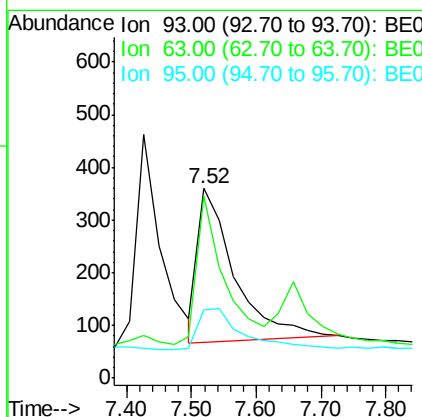
RT: 7.52 min Scan# 548

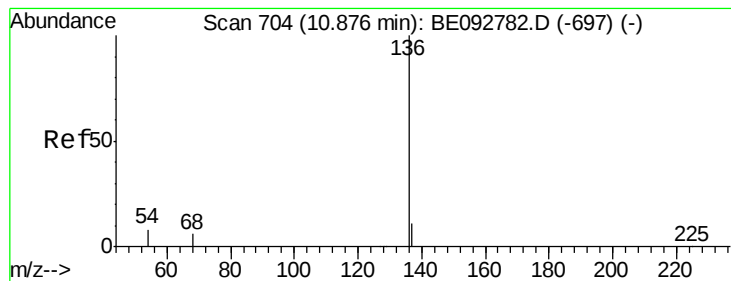
Delta R.T. -0.02 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Tgt Ion:	93	Resp:	1148
Ion	Ratio	Lower	Upper
93	100		
63	73.7	71.6	107.4
95	0.0	24.0	36.0#





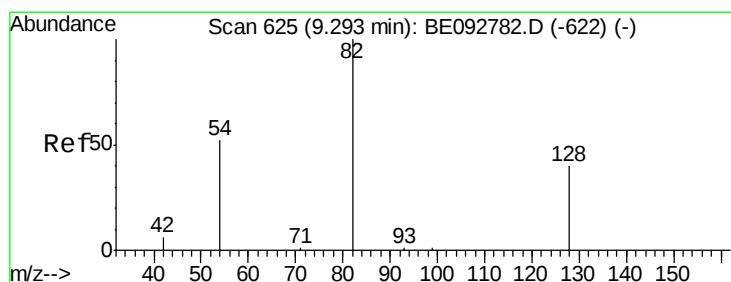
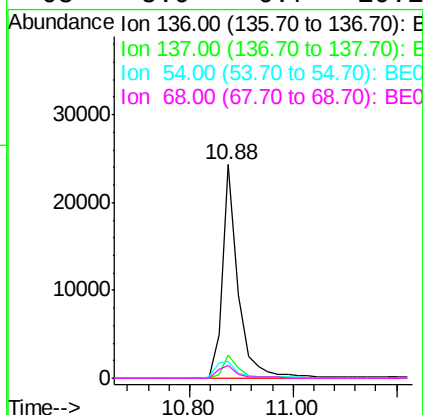
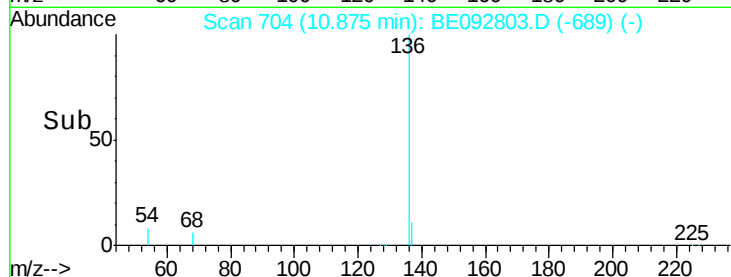
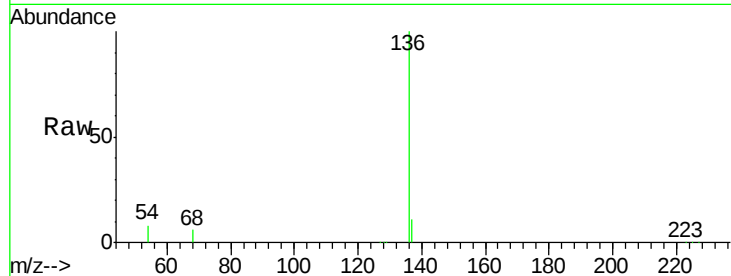
#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.88 min Scan# 704
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.0	8.2	12.4	
54	8.1	9.6	14.4	
68	5.9	6.7	10.1	

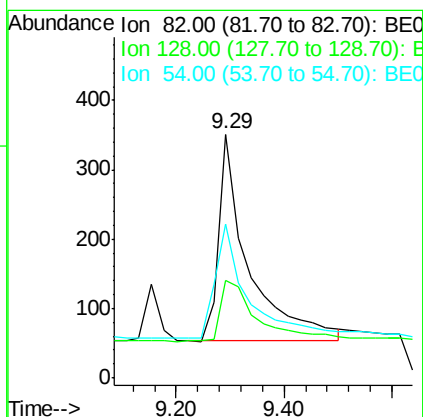
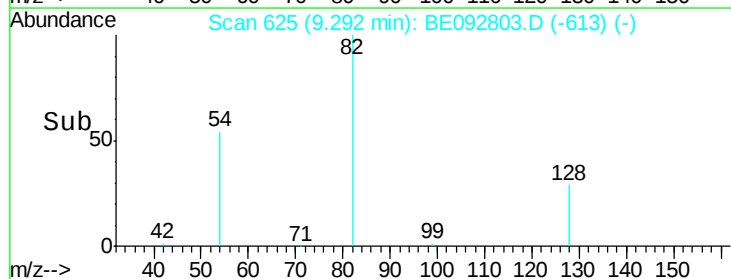
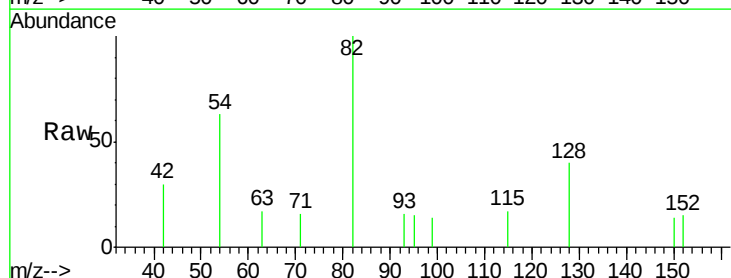
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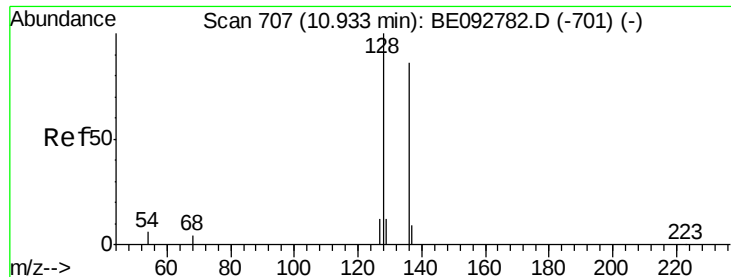
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#8
Nitrobenzene-d5
Concen: 0.37 ng
RT: 9.29 min Scan# 625
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	39.9	39.0	58.4	
54	63.2	44.8	67.2	





#9

Naphthalene

Concen: 0.41 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Instrument :

BNA_E

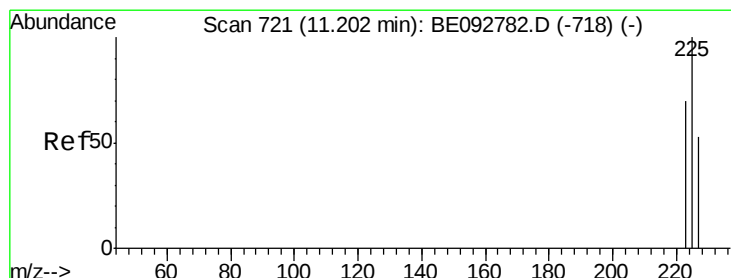
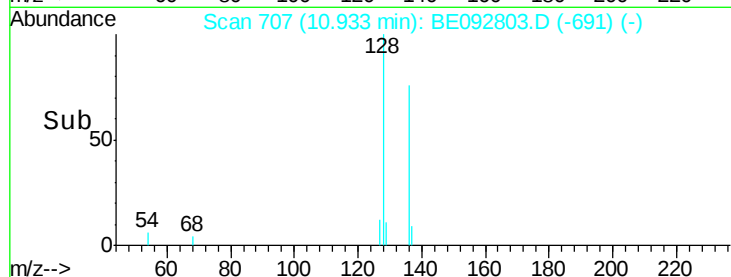
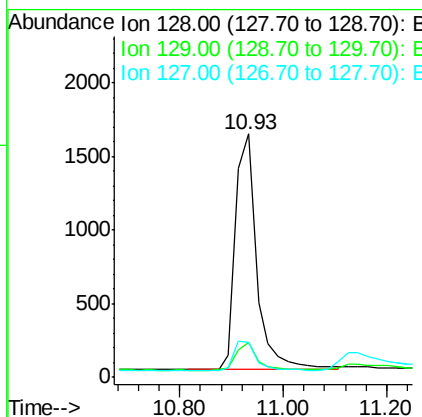
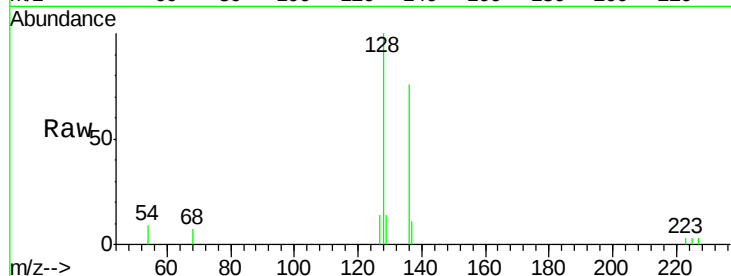
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	128	Resp:	4561
Ion Ratio	Lower	Upper	
128	100		
129	14.2	11.2	16.8
127	14.2	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 0.42 ng

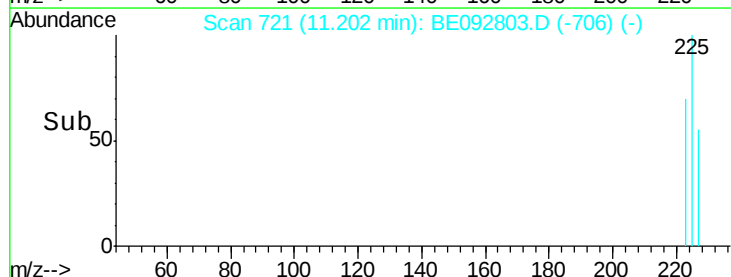
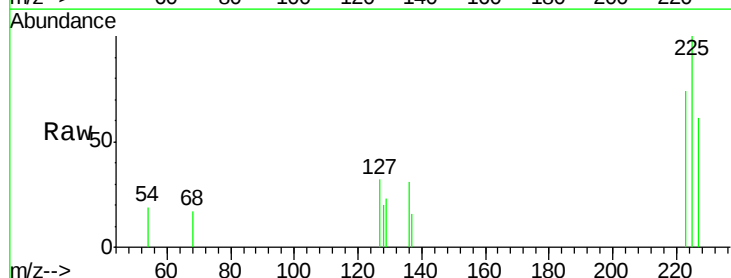
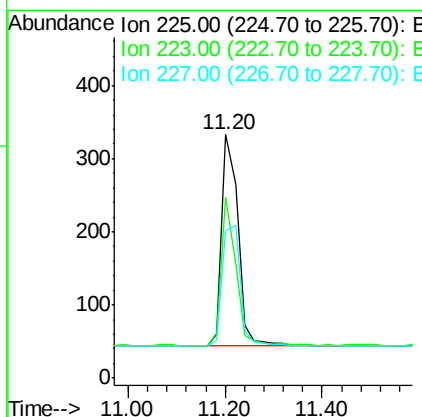
RT: 11.20 min Scan# 721

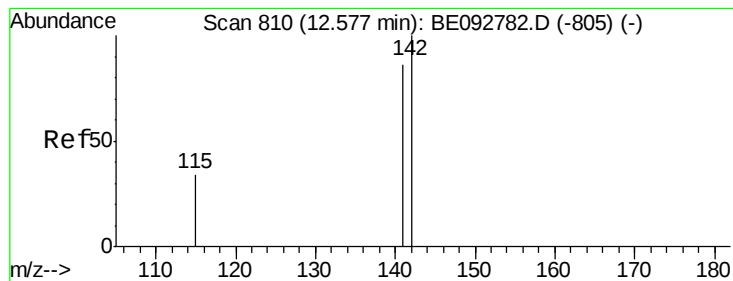
Delta R.T. -0.02 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Tgt Ion:	225	Resp:	668
Ion Ratio	Lower	Upper	
225	100		
223	62.1	50.6	76.0
227	63.5	51.4	77.0





#11

2-Methylnaphthalene

Concen: 0.40 ng

RT: 12.58 min Scan# 810

Delta R.T. -0.01 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Instrument :

BNA_E

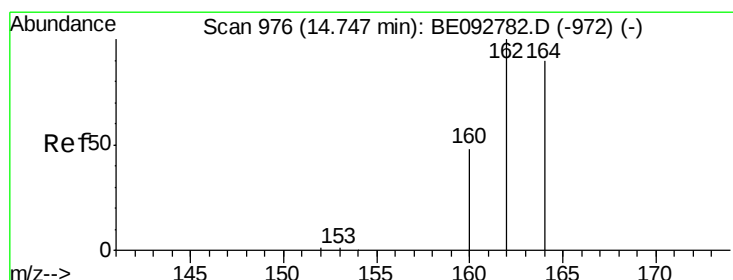
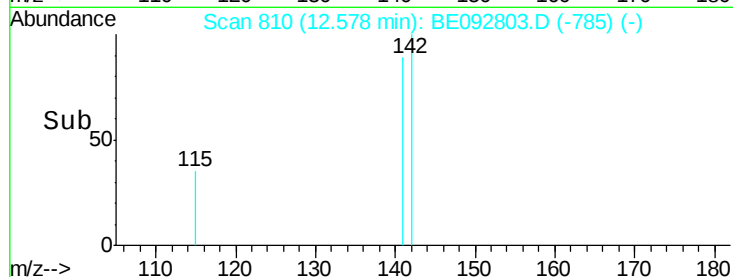
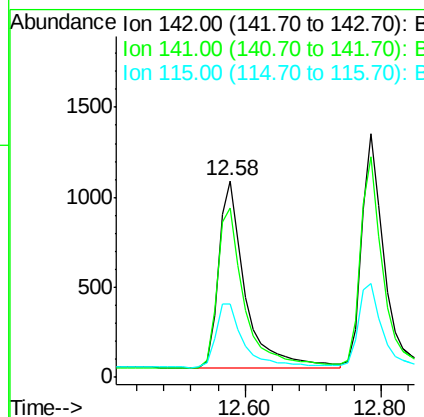
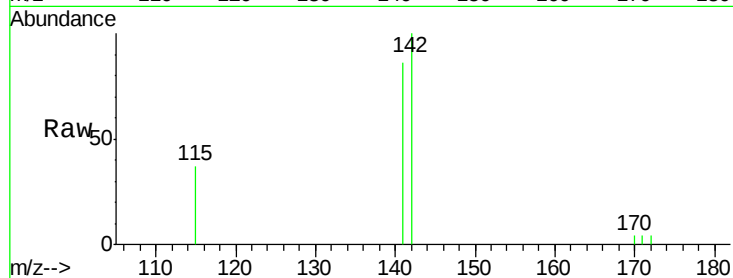
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	142	Resp:	2856
Ion Ratio	Lower	Upper	
142	100		
141	85.9	73.7	110.5
115	37.2	34.0	51.0

Manual Integrations
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#12

Acenaphthene-d10

Concen: 5.00 ng

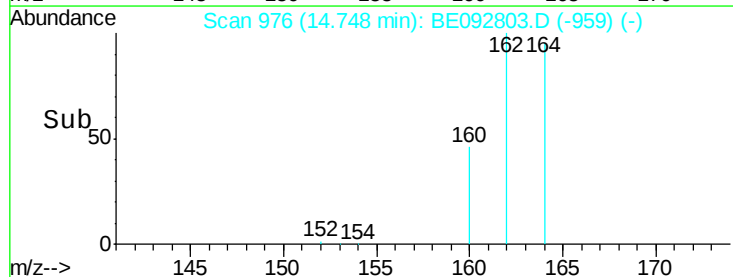
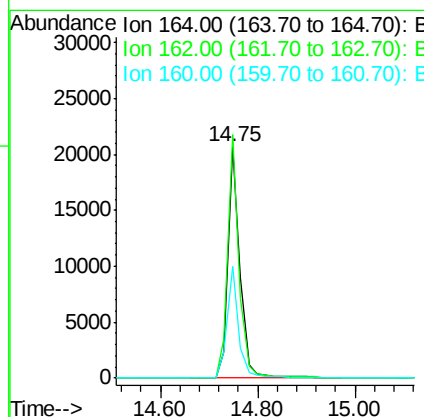
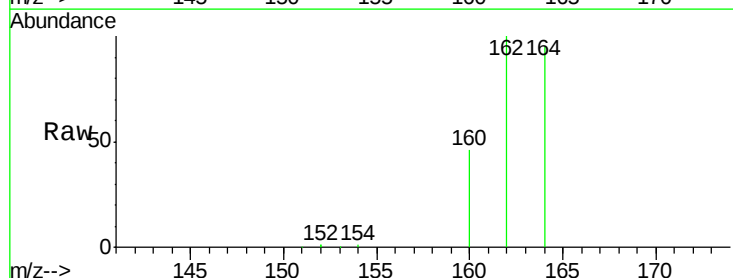
RT: 14.75 min Scan# 976

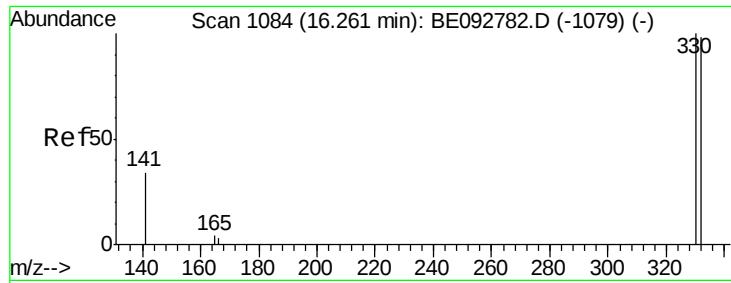
Delta R.T. -0.02 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Tgt Ion:	164	Resp:	34883
Ion Ratio	Lower	Upper	
164	100		
162	105.3	71.4	107.0
160	48.1	27.4	41.2#





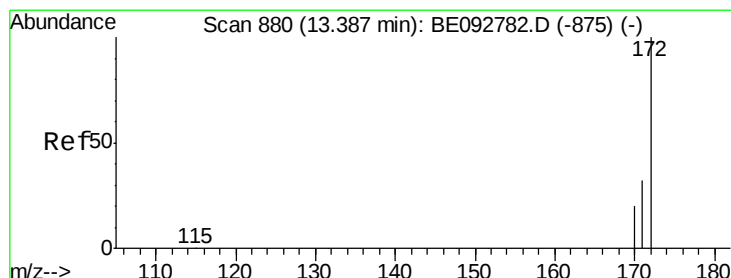
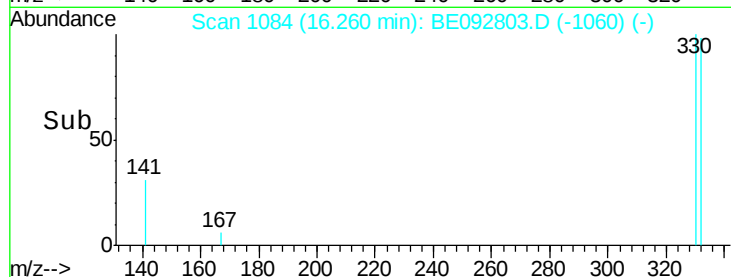
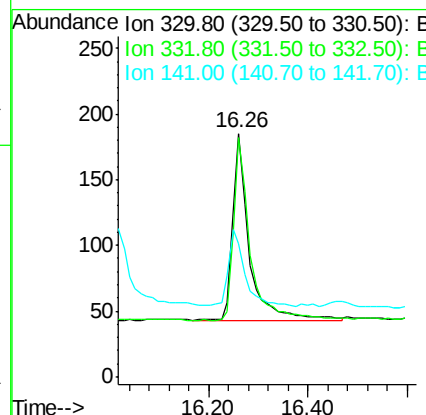
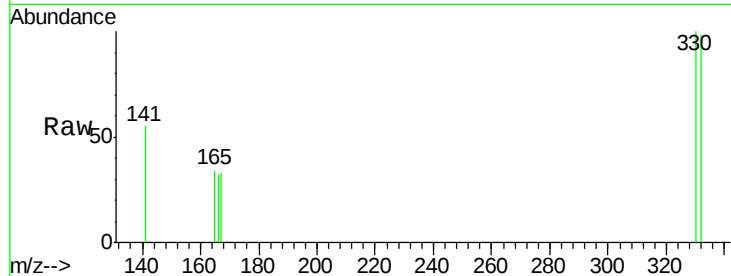
#13
 2,4,6-Tribromophenol
 Concen: 0.36 ng
 RT: 16.26 min Scan# 1084
 Delta R.T. -0.02 min
 Lab File: BE092803.D
 Acq: 7 Mar 2017 1:09

Instrument :
 BNA_E
 ClientSampleId :
 SSTCCCC0.4EC

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	75.4	113.0
141	41.4	31.0	46.6

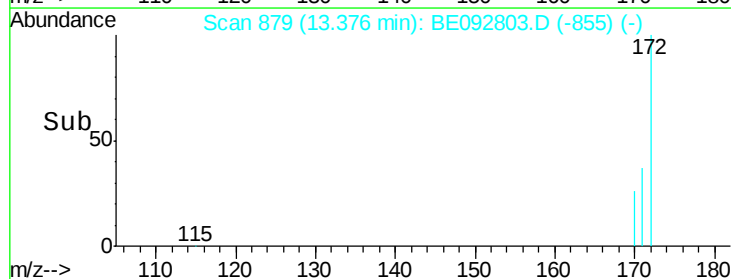
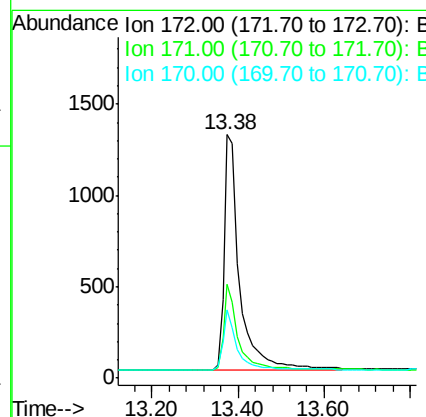
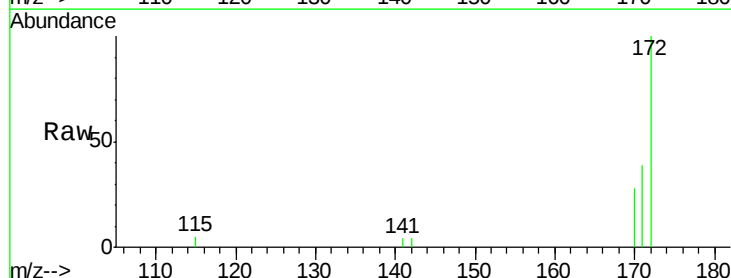
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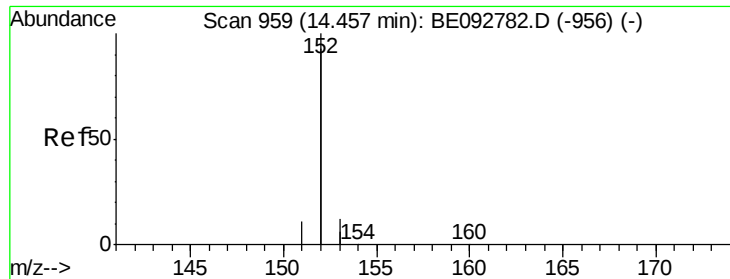
mohammad
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#14
 2-Fluorobiphenyl
 Concen: 0.40 ng
 RT: 13.38 min Scan# 879
 Delta R.T. -0.02 min
 Lab File: BE092803.D
 Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.7	30.1	45.1
170	28.1	21.8	32.6





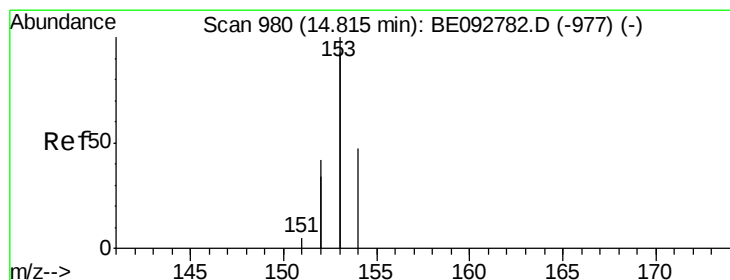
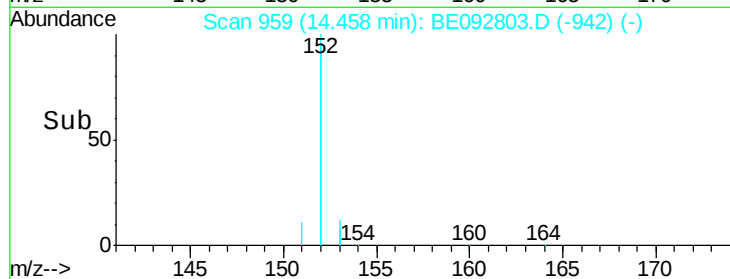
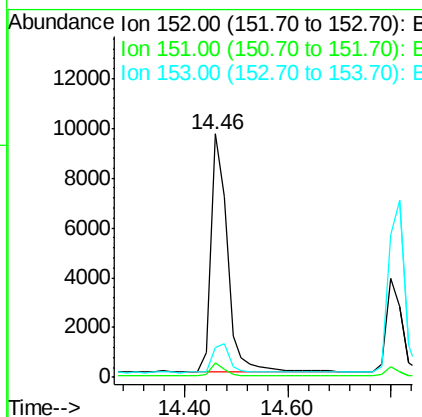
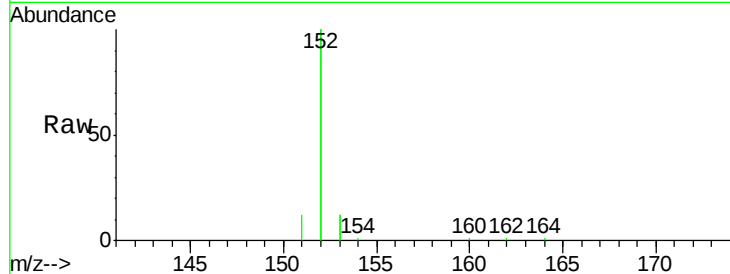
#15
Acenaphthylene
Concen: 0.39 ng
RT: 14.46 min Scan# 959
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.3	10.4	15.6

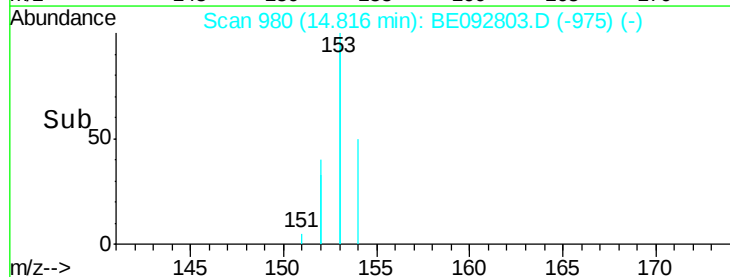
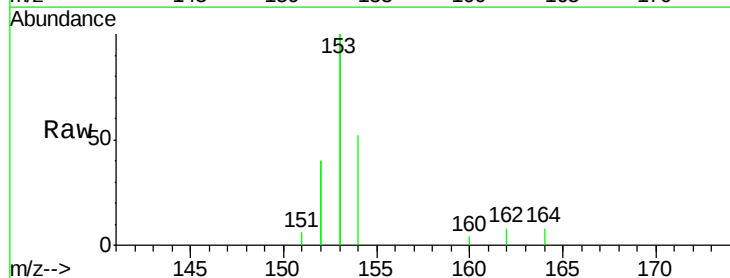
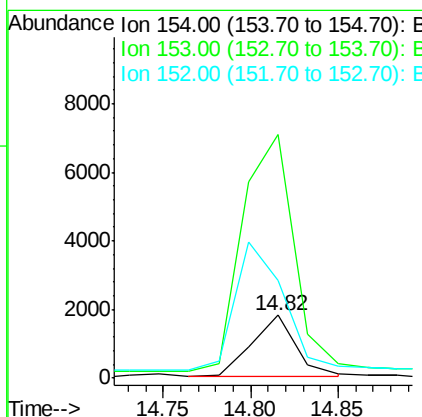
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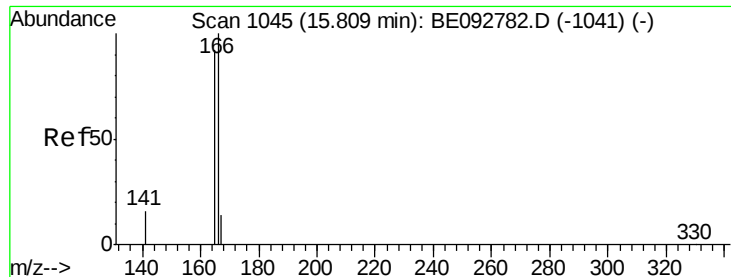
mohammad
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#16
Acenaphthene
Concen: 0.41 ng
RT: 14.82 min Scan# 980
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
154	100		
153	463.8	350.8	526.2
152	235.6	171.1	256.7





#17

Fluorene

Concen: 0.41 ng

RT: 15.81 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Instrument :

BNA_E

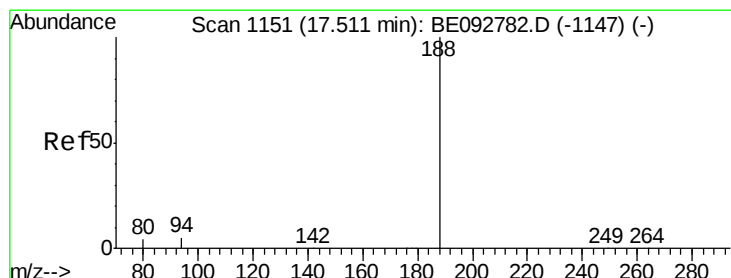
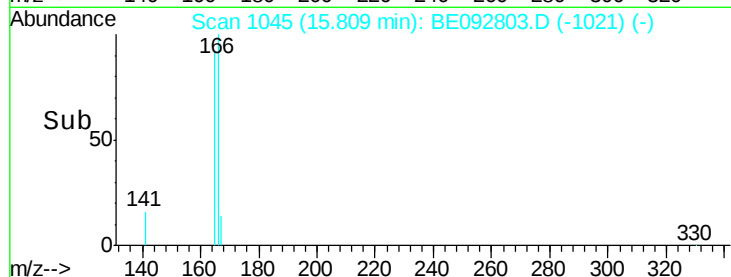
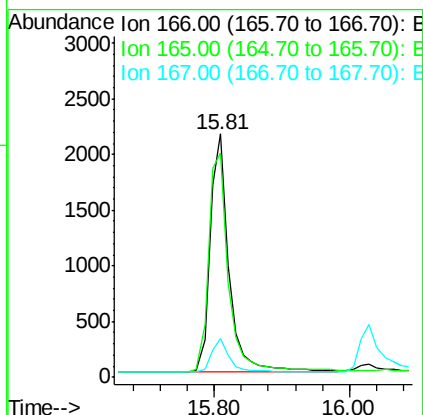
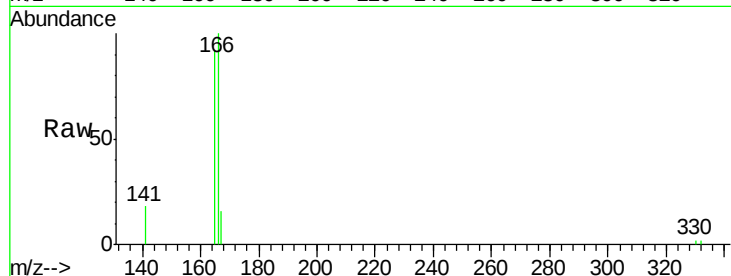
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	166	Resp:	4154
Ion Ratio	Lower	Upper	
166	100		
165	98.1	78.2	117.4
167	13.0	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

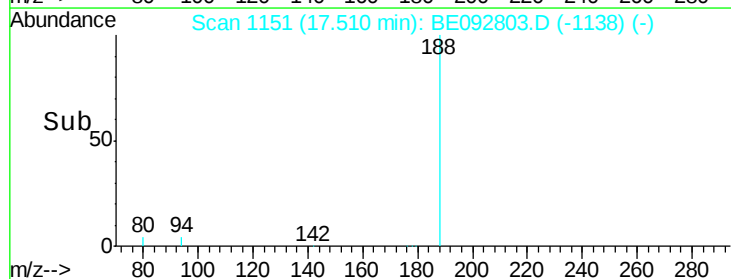
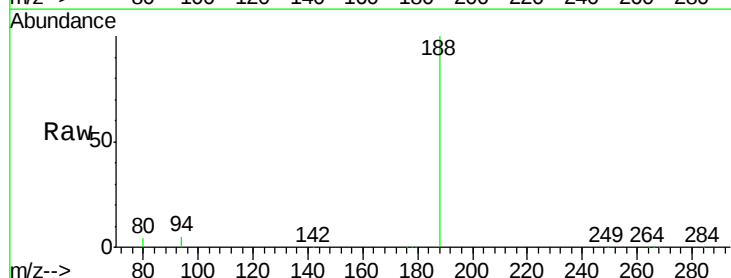
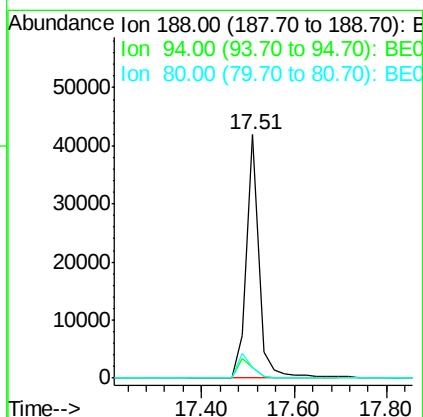
RT: 17.51 min Scan# 1151

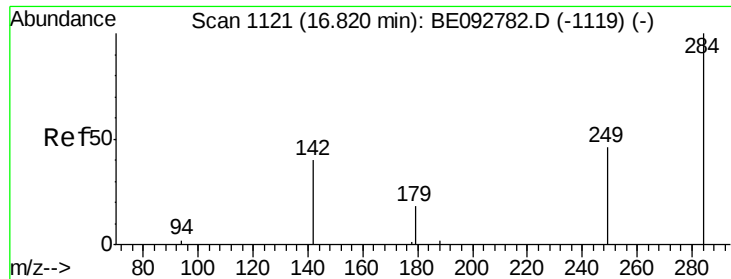
Delta R.T. -0.00 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Tgt Ion:	188	Resp:	79112
Ion Ratio	Lower	Upper	
188	100		
94	4.6	3.2	4.8
80	4.1	2.6	3.8#





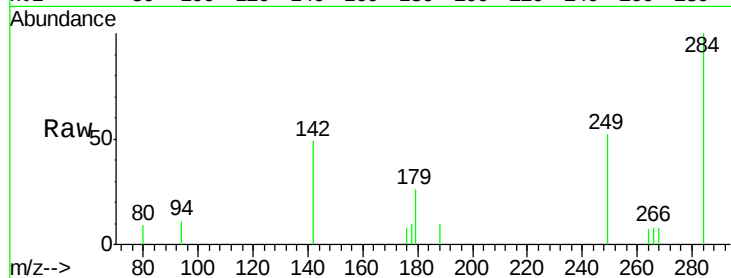
#19
Hexachlorobenzene
Concen: 0.37 ng
RT: 16.82 min Scan# 1121
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

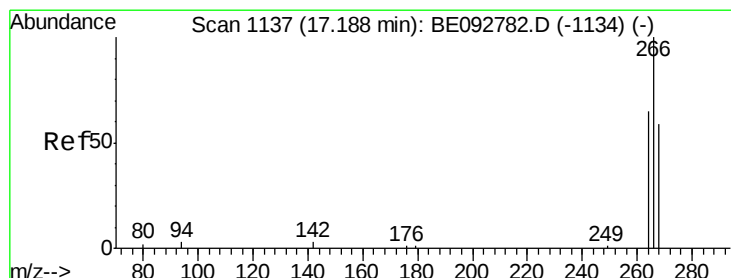
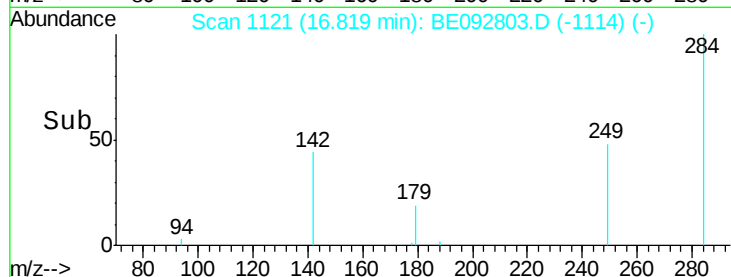
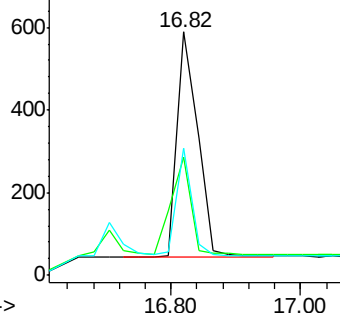
Tot Ion	Ratio	Lower	Upper
284	100		
142	40.9	29.1	43.7
249	35.2	27.9	41.9

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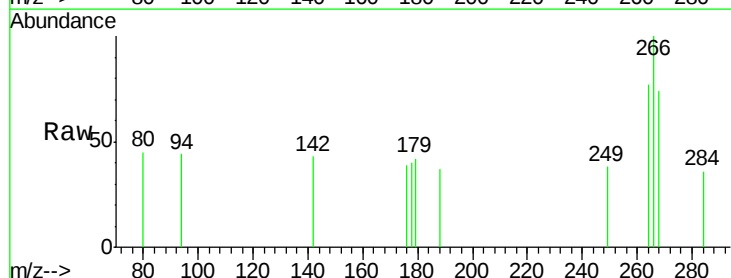


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

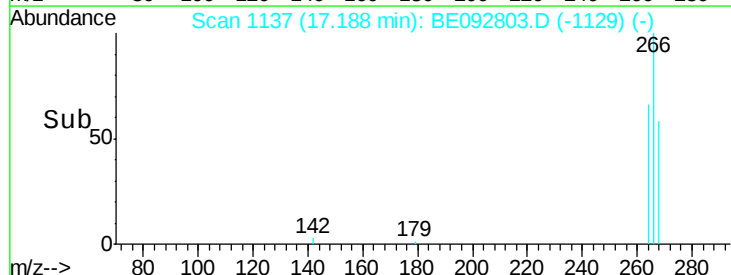
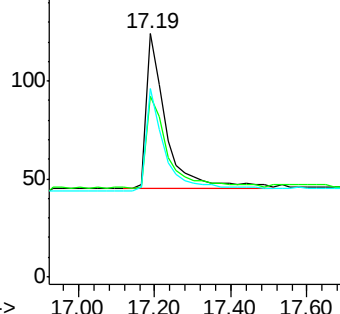


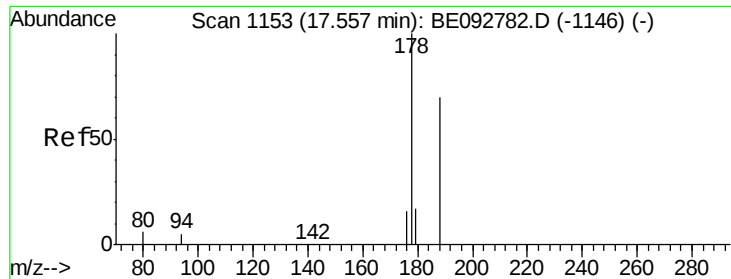
#20
Pentachlorophenol
Concen: 0.32 ng
RT: 17.19 min Scan# 1137
Delta R.T. -0.12 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
266	100		
268	74.2	62.5	93.7
264	77.4	57.2	85.8



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





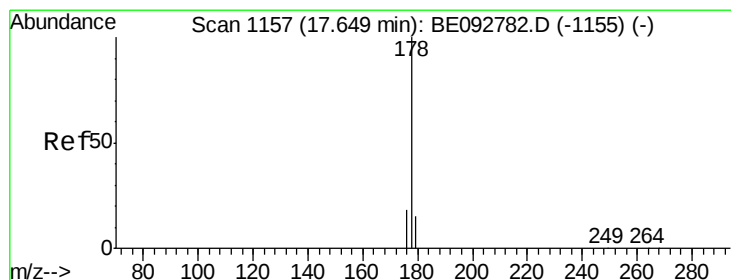
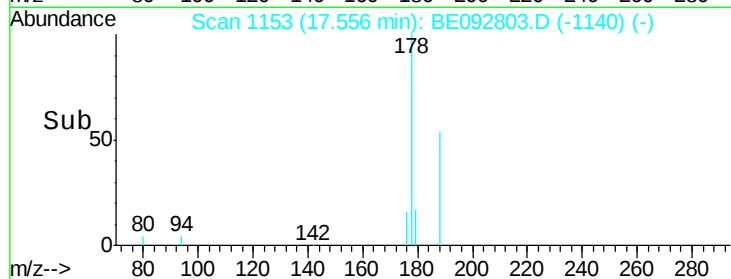
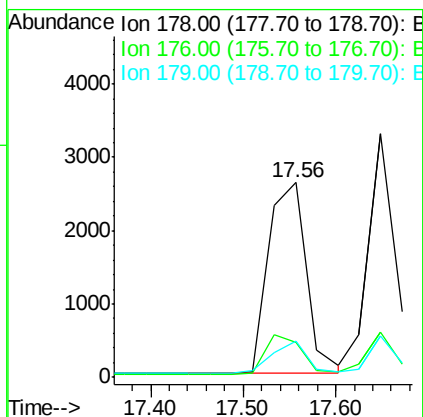
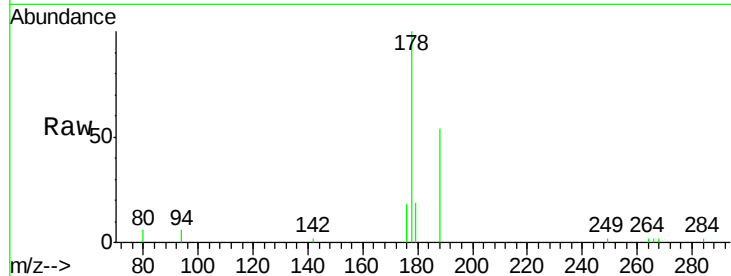
#21
Phenanthrene
Concen: 0.39 ng
RT: 17.56 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
178	100		
176	0.0	15.8	23.8#
179	16.0	16.0	24.0#

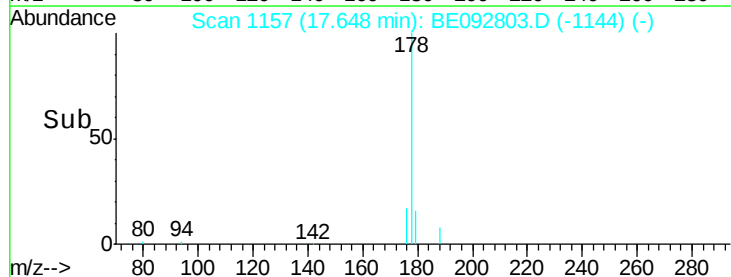
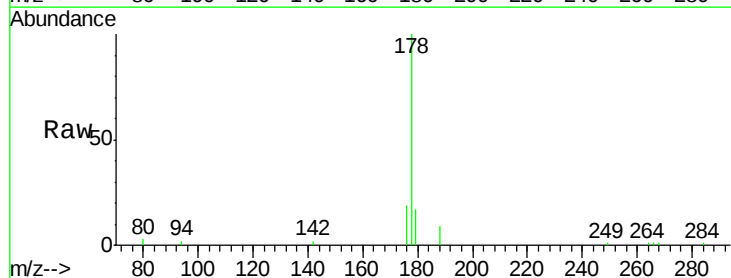
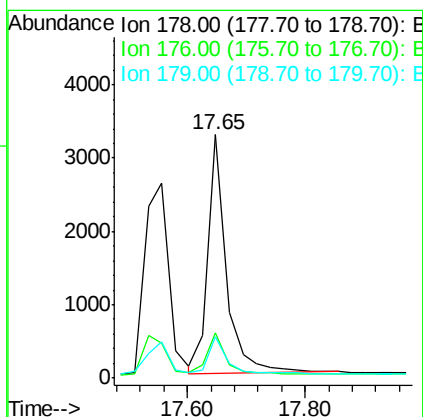
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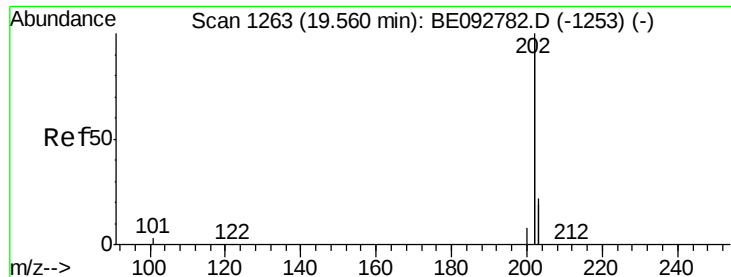
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#22
Anthracene
Concen: 0.37 ng
RT: 17.65 min Scan# 1157
Delta R.T. -0.00 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.4
179	15.9	12.2	18.2





#23

Fluoranthene

Concen: 0.38 ng

RT: 19.56 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Instrument :

BNA_E

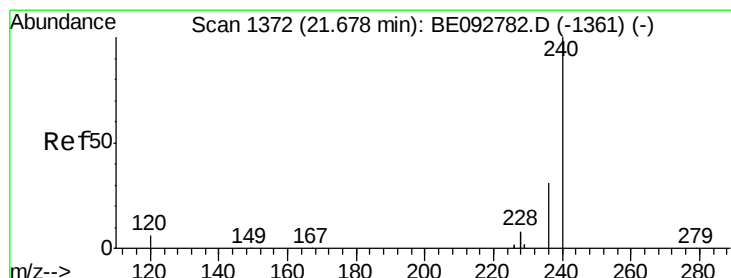
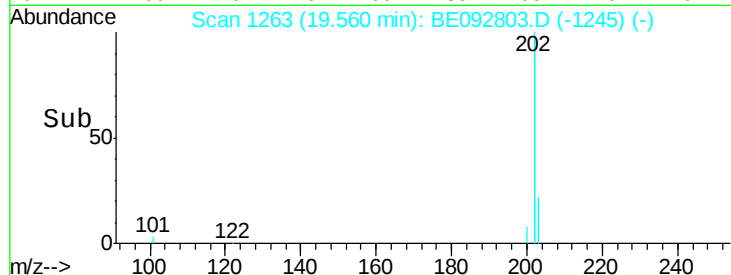
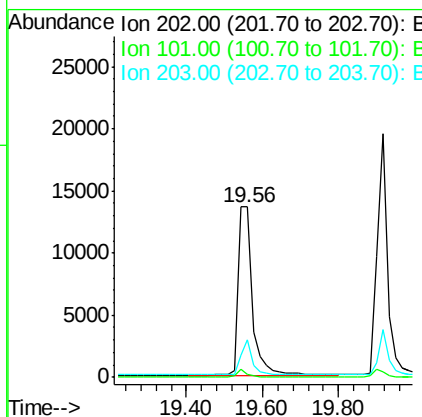
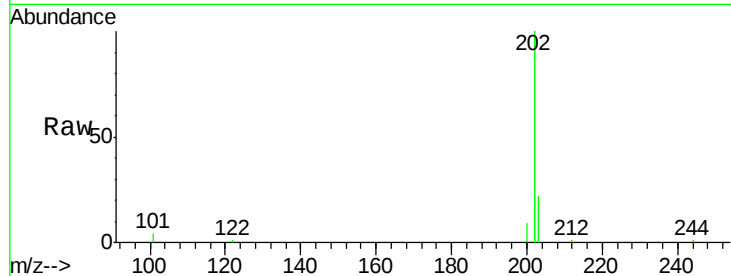
ClientSampleId :

SSTDCCC0.4EC

Tot Ion:	202	Resp:	35428
Ion Ratio	Lower	Upper	
202	100		
101	3.0	2.2	3.4
203	17.6	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

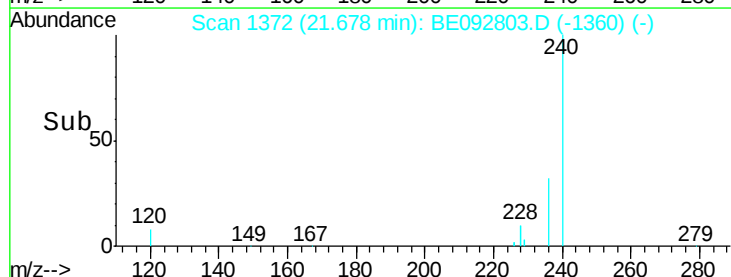
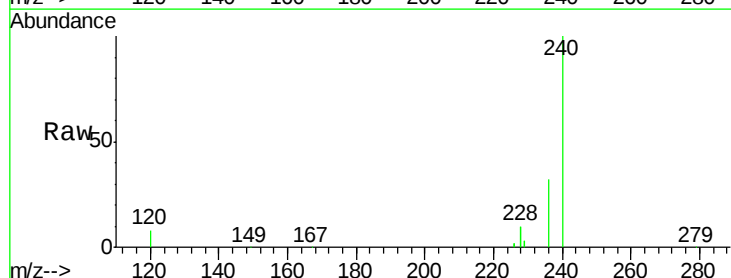
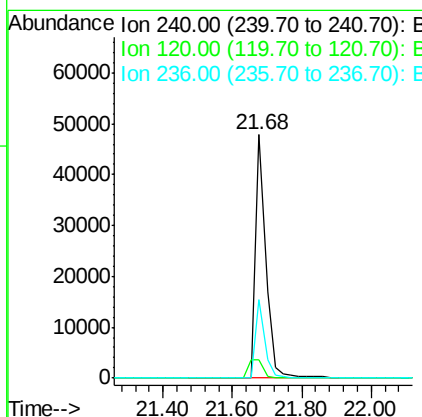
RT: 21.68 min Scan# 1372

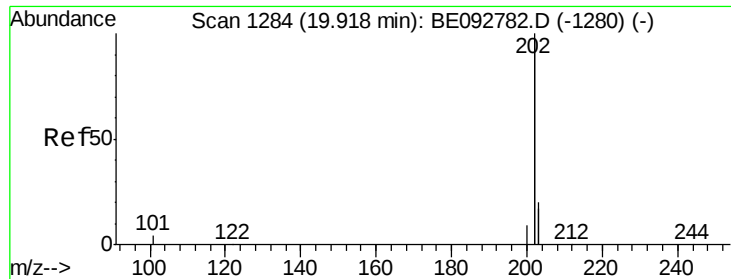
Delta R.T. -0.02 min

Lab File: BE092803.D

Acq: 7 Mar 2017 1:09

Tgt Ion:	240	Resp:	94379
Ion Ratio	Lower	Upper	
240	100		
120	7.7	2.6	4.0#
236	32.3	24.6	37.0





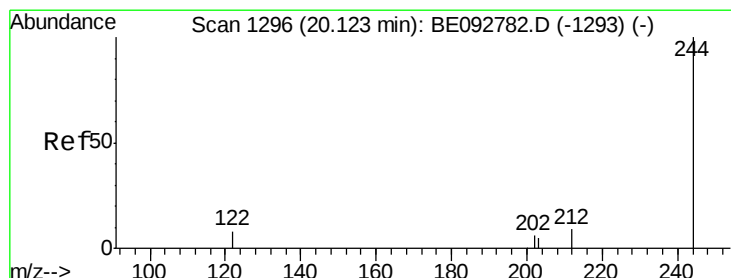
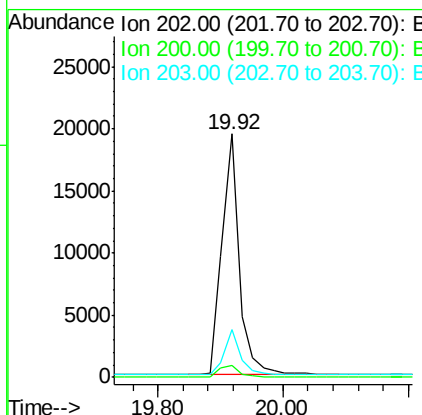
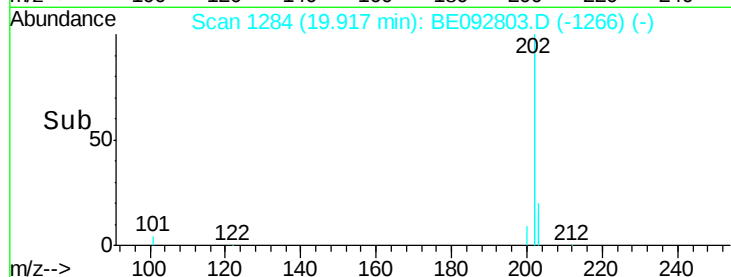
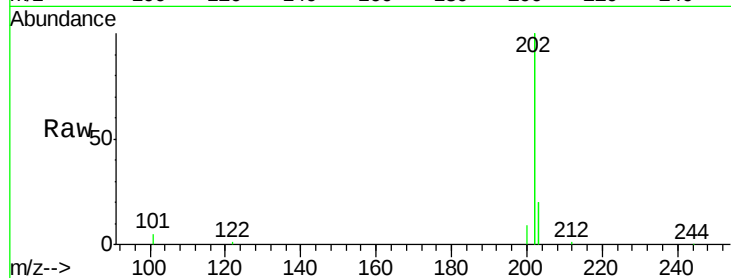
#25
Pvrene
Concen: 0.44 ng
RT: 19.92 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.2	6.4
203	17.6	13.9	20.9

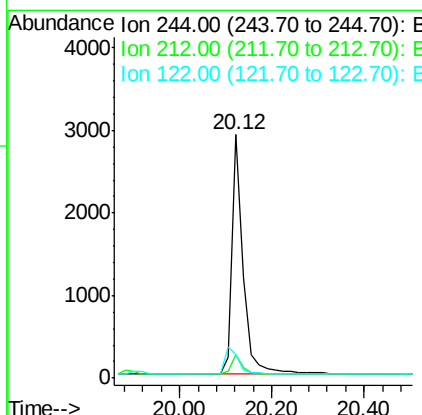
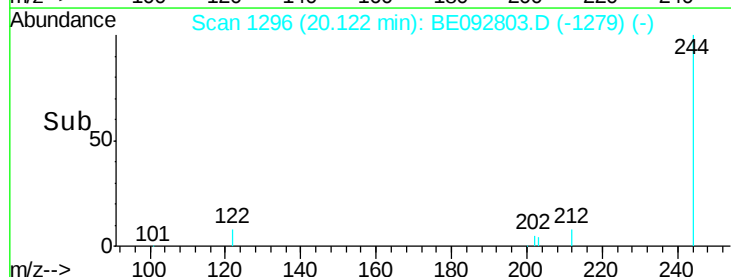
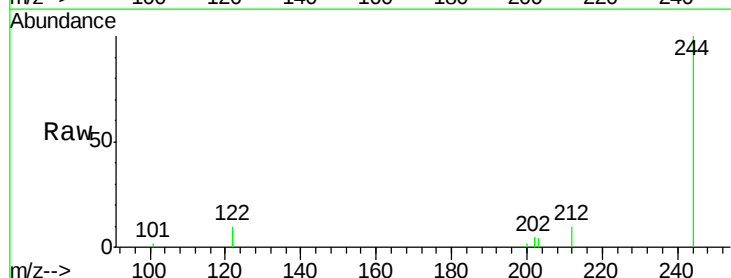
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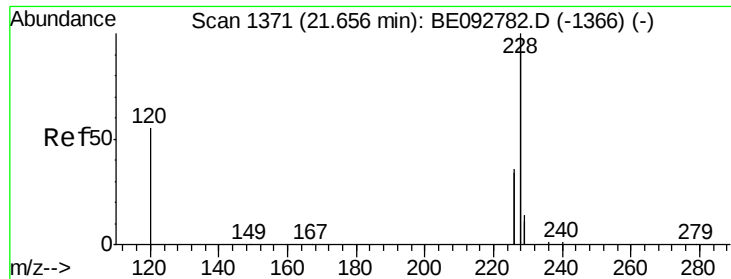
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#26
Terphenyl-d14
Concen: 0.44 ng
RT: 20.12 min Scan# 1296
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	6.7	10.1
122	9.7	3.6	5.4





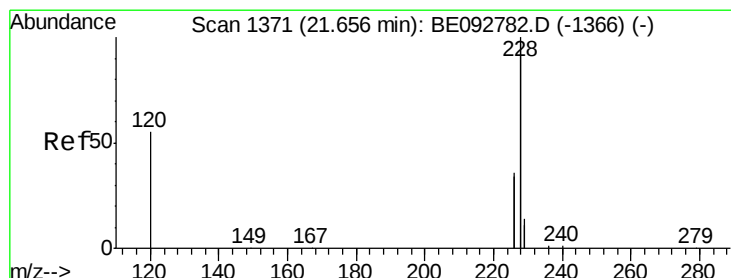
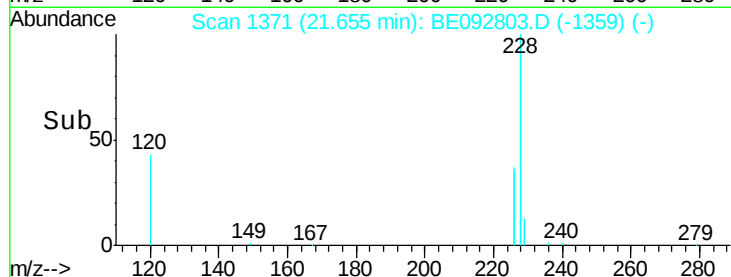
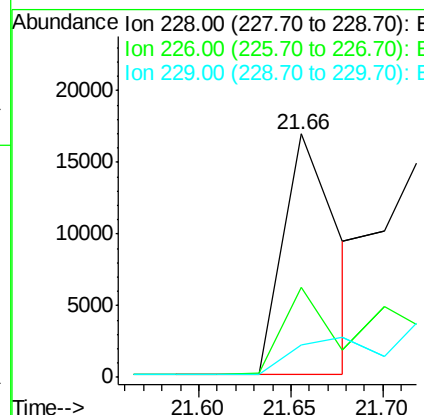
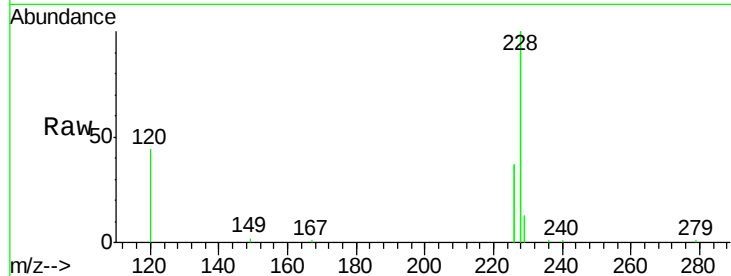
#27
Benzo(a)anthracene
Concen: 0.43 ng m
RT: 21.66 min Scan# 1371
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
228	100		
226	37.0	23.6	35.4#
229	13.4	13.3	19.9

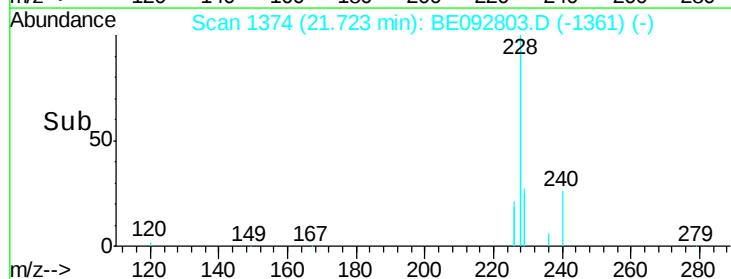
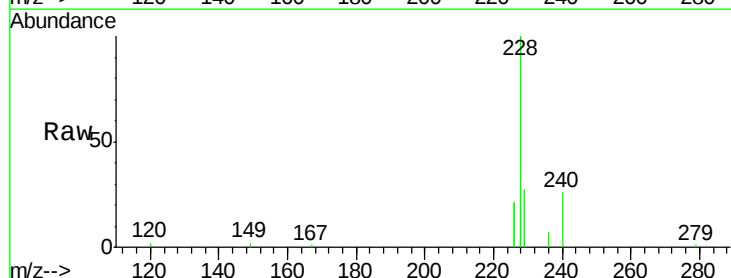
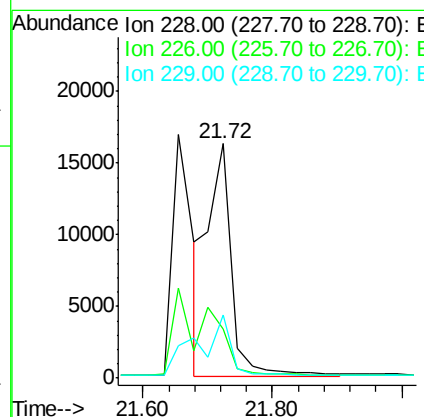
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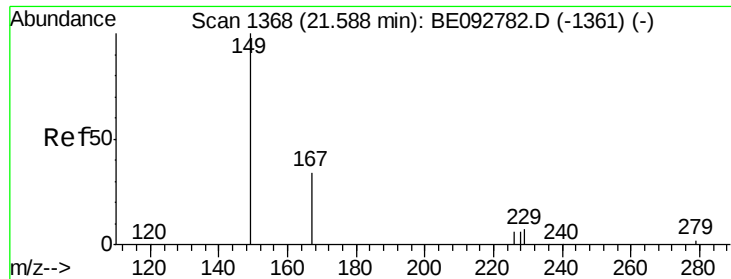
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#28
Chrysene
Concen: 0.48 ng m
RT: 21.72 min Scan# 1374
Delta R.T. -0.00 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	20.8	36.3	54.5#
229	27.0	10.6	16.0#





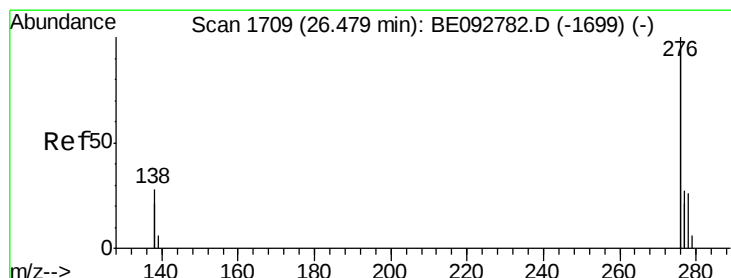
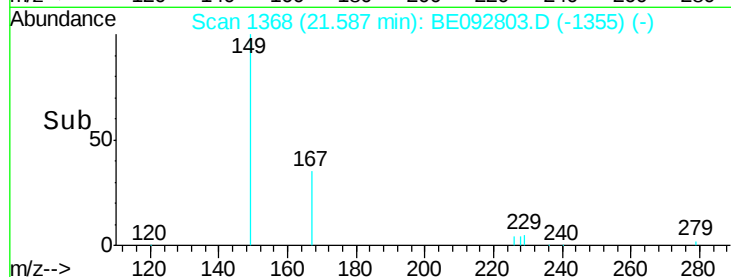
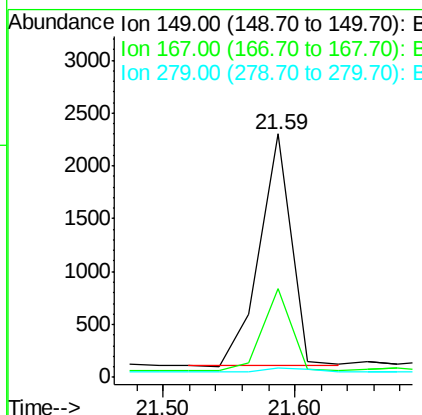
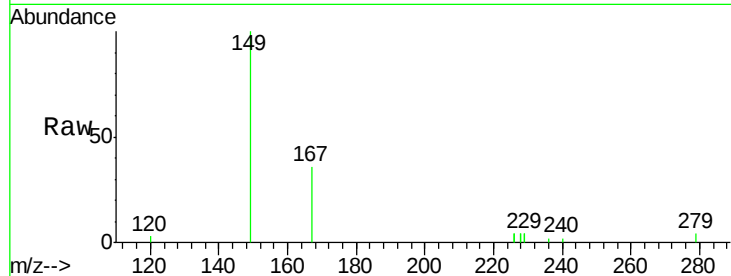
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.49 ng
 RT: 21.59 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: BE092803.D
 Acq: 7 Mar 2017 1:09

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
149	100		
167	32.2	16.0	24.0#
279	2.5	16.0	24.0#

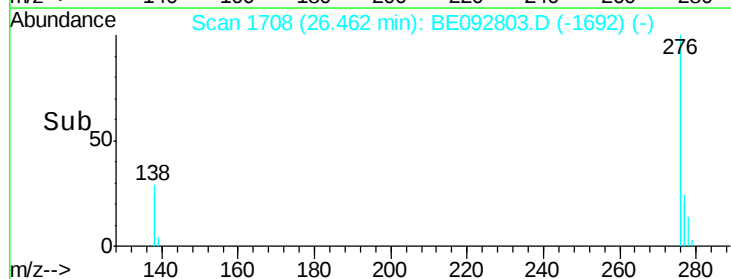
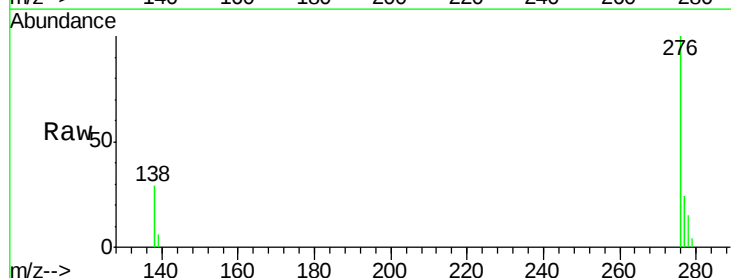
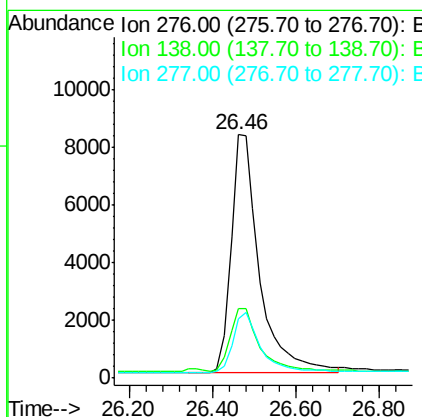
Manual Integrations
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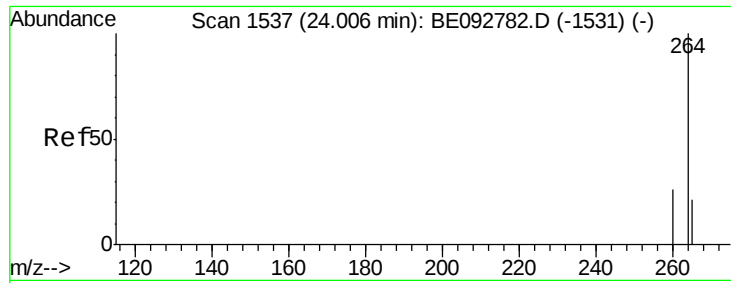
mohammad
 3/7/2017 4:23:39 PM



#30
 Indeno(1,2,3-cd)pyrene
 Concen: 0.42 ng
 RT: 26.46 min Scan# 1708
 Delta R.T. -0.03 min
 Lab File: BE092803.D
 Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.9	20.3	30.5
277	24.4	19.7	29.5





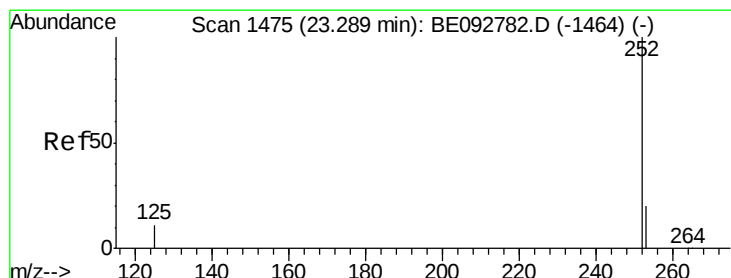
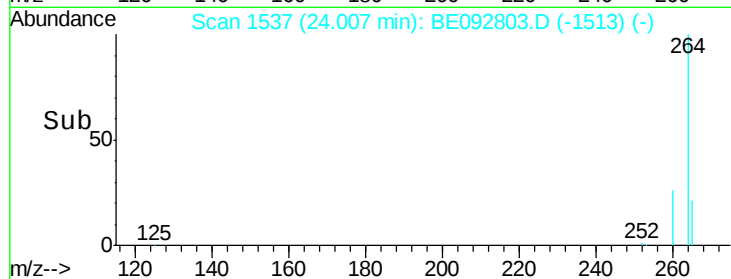
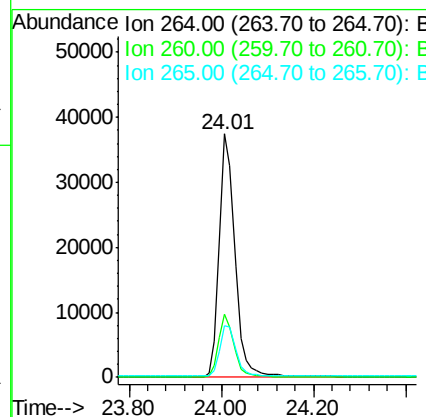
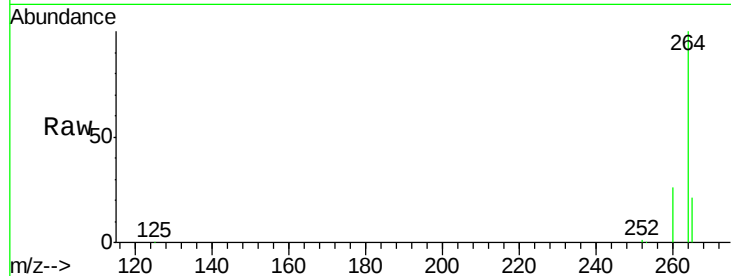
#31
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.01 min Scan# 1537
 Delta R.T. -0.02 min
 Lab File: BE092803.D
 Acq: 7 Mar 2017 1:09

Instrument :
 BNA_E
 ClientSampleId :
 SSTCCCC0.4EC

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.1	30.1
265	21.2	17.9	26.9

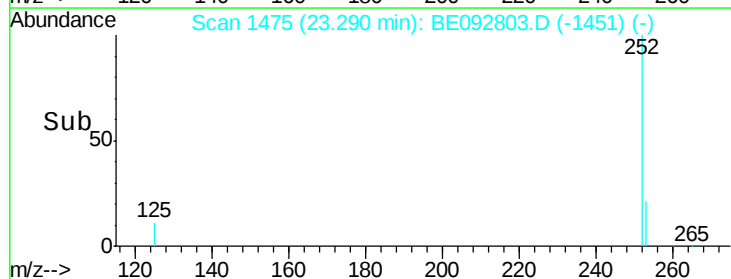
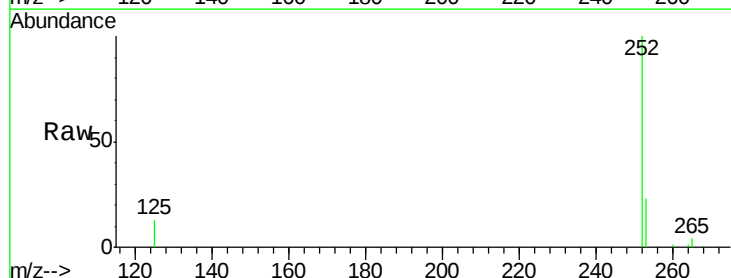
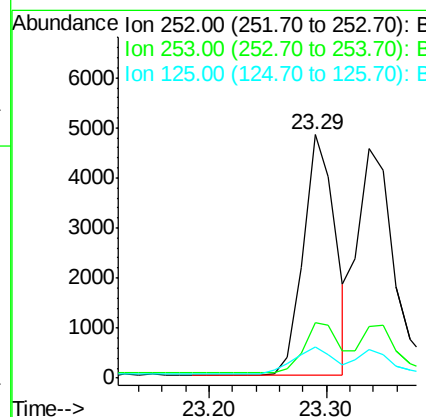
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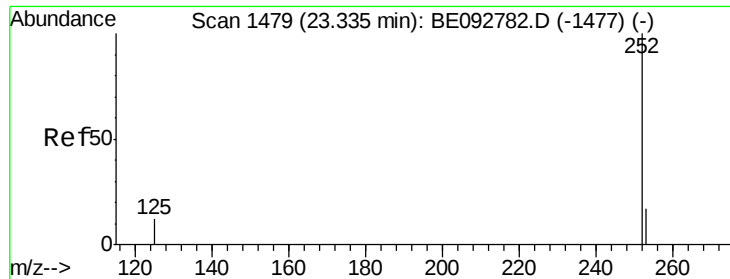
mohammad
 3/7/2017 4:23:39 PM



#32
 Benzo(b)fluoranthene
 Concen: 0.38 ng
 RT: 23.29 min Scan# 1475
 Delta R.T. -0.02 min
 Lab File: BE092803.D
 Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.7	28.1
125	12.8	10.5	15.7





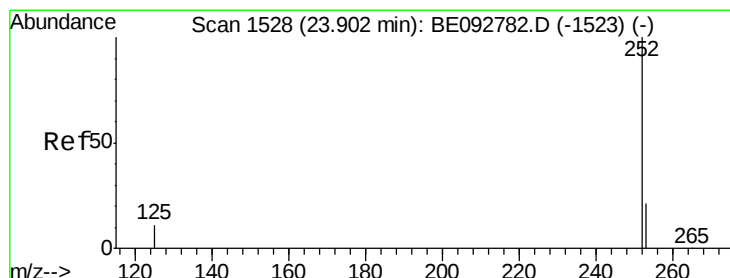
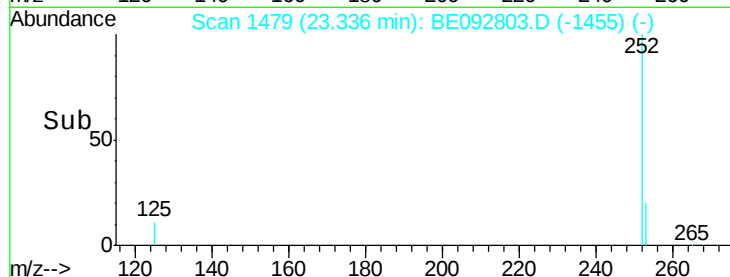
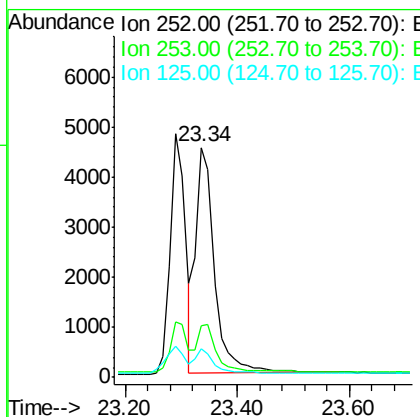
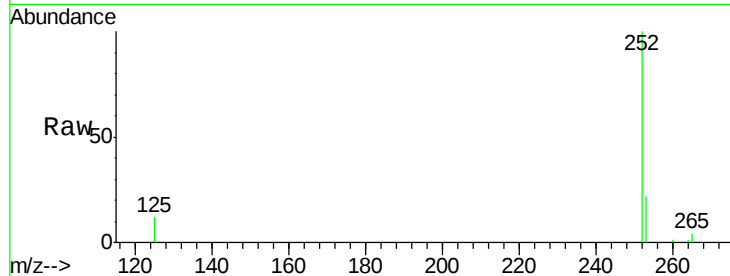
#33
Benzo(k)fluoranthene
Concen: 0.43 ng
RT: 23.34 min Scan# 1479
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	20.3	30.5
125	12.5	9.6	14.4

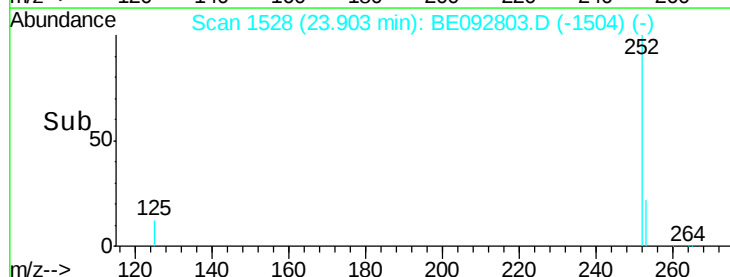
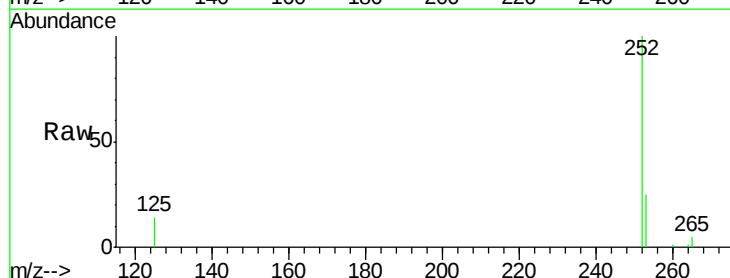
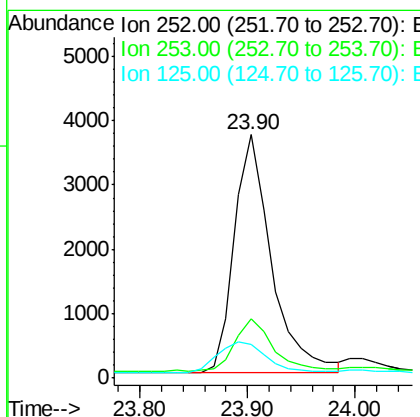
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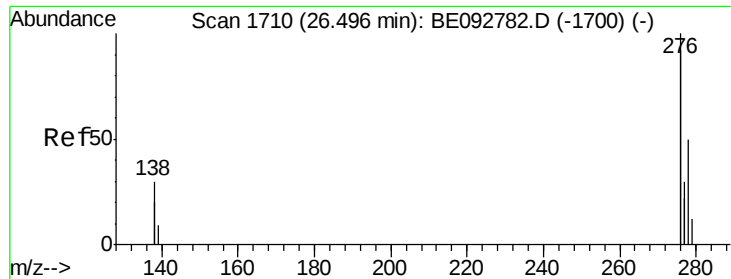
mohammad
3/7/2017 4:23:39 PM



#34
Benzo(a)pyrene
Concen: 0.41 ng
RT: 23.90 min Scan# 1528
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.0	28.6
125	13.9	11.8	17.8





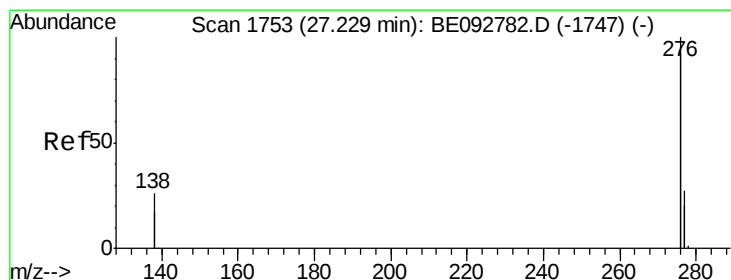
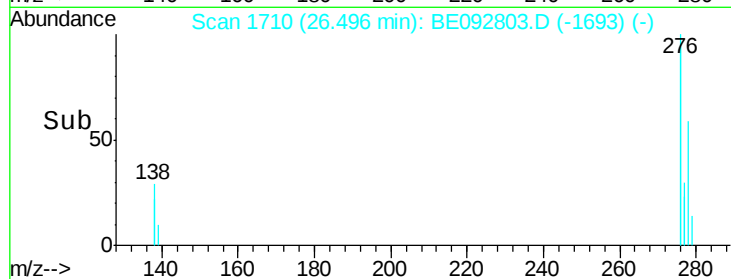
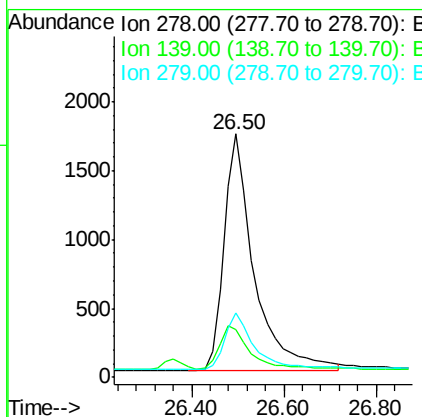
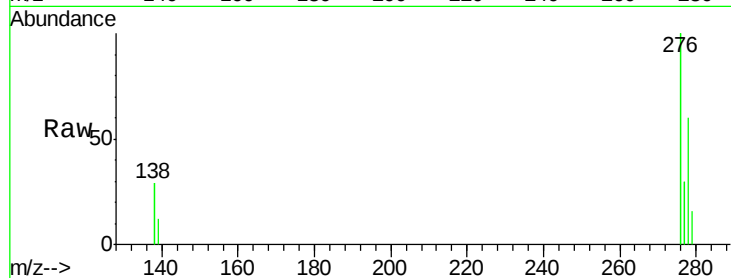
#35
Dibenzo(a,h)anthracene
Concen: 0.38 ng
RT: 26.50 min Scan# 1710
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.6	13.8	20.8
279	26.6	21.4	32.2

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#36
Benzo(g,h,i)perylene
Concen: 0.39 ng
RT: 27.23 min Scan# 1753
Delta R.T. -0.02 min
Lab File: BE092803.D
Acq: 7 Mar 2017 1:09

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.1	19.8	29.8
138	23.7	19.8	29.6

