

Data Path : Z:\HPCHEM1\BNA E\DATA\BE011617\
 Data File : BE092650.D
 Acq On : 16 Jan 2017 13:52
 Operator : UM/SJ
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC0.4

Manual Integrations
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Quant Time: Jan 16 15:46:32 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 16 15:00:30 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	9746	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	45021	5.00	ng	0.00
12) Acenaphthene-d10	14.78	164	28854	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	62814	5.00	ng	0.00
24) Chrysene-d12	21.72	240	71501	5.00	ng	0.00
31) Perylene-d12	24.06	264	77425	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	740	0.50	ng	0.00
5) Phenol-d6	7.33	99	878	0.41	ng	0.00
8) Nitrobenzene-d5	9.34	82	969	0.38	ng	0.00
13) 2,4,6-Tribromophenol	16.30	330	232	0.36	ng	0.00
14) 2-Fluorobiphenyl	13.42	172	2634	0.38	ng	0.00
26) Terphenyl-d14	20.16	244	3470	0.40	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	636	0.45	ng	92
3) n-Nitrosodimethylamine	3.74	42	615	0.51	ng	# 100
6) bis(2-Chloroethyl)ether	7.57	93	951	0.43	ng	86
9) Naphthalene	10.97	128	3474	0.38	ng	98
10) Hexachlorobutadiene	11.26	225	527	0.38	ng	99
11) 2-Methylnaphthalene	12.61	142	2087	0.35	ng	100
15) Acenaphthylene	14.51	152	14106	0.35	ng	100
16) Acenaphthene	14.85	154	2423	0.37	ng	97
17) Fluorene	15.85	166	2872	0.36	ng	99
19) Hexachlorobenzene	16.87	284	990m	0.37	ng	
20) Pentachlorophenol	17.23	266	236	0.52	ng	93
21) Phenanthrene	17.58	178	5365	0.34	ng	95
22) Anthracene	17.69	178	4565	0.32	ng	99
23) Fluoranthene	19.59	202	22322	0.33	ng	99
25) Pyrene	19.95	202	23520	0.37	ng	100
27) Benzo(a)anthracene	21.70	228	24306	0.38	ng	# 83
28) Chrysene	21.75	228	29479m	0.40	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	3737	0.54	ng	# 73
30) Indeno(1,2,3-cd)pyrene	26.55	276	29966	0.45	ng	98
32) Benzo(b)fluoranthene	23.35	252	6884	0.39	ng	96
33) Benzo(k)fluoranthene	23.39	252	6462	0.33	ng	99
34) Benzo(a)pyrene	23.96	252	6076	0.35	ng	96
35) Dibenzo(a,h)anthracene	26.58	278	6101	0.37	ng	98
36) Benzo(g,h,i)perylene	27.31	276	26252	0.38	ng	99

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

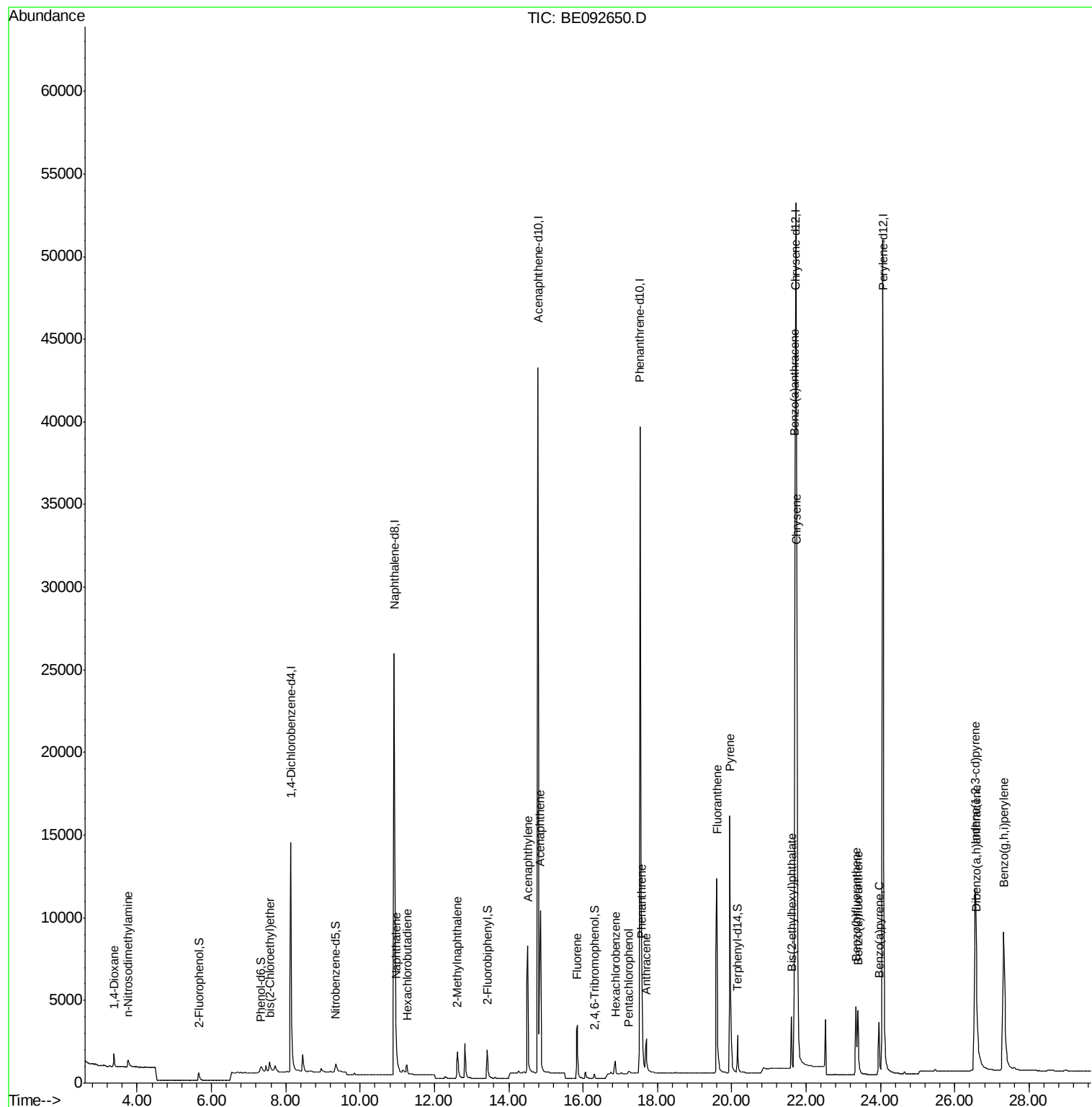
Data Path : Z:\HPCHEM1\BNA E\DATA\BE011617\
Data File : BE092650.D
Acq On : 16 Jan 2017 13:52
Operator : UM/SJ
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

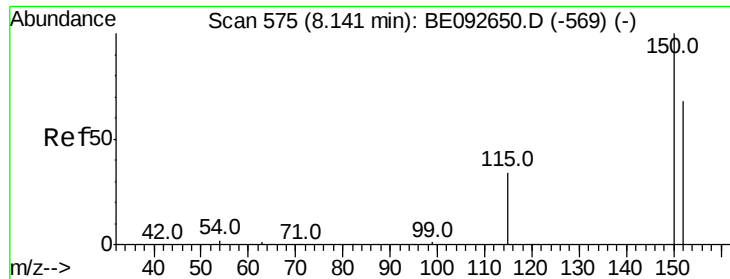
Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

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Quant Time: Jan 16 15:46:32 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011617.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 16 15:00:30 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

Tot Ion:152 Resp: 9746

Ion Ratio Lower Upper

152 100

150 146.4 106.0 159.0

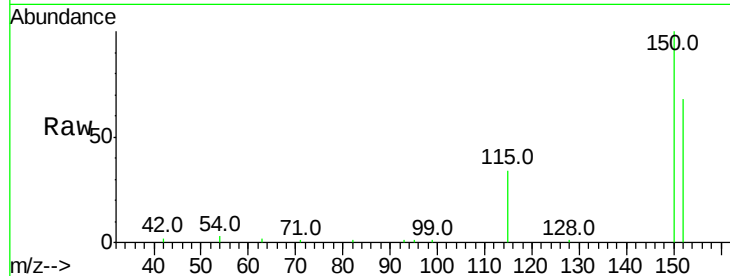
115 50.3 31.2 46.8#

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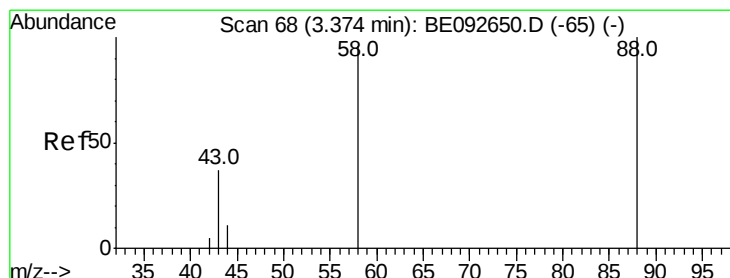
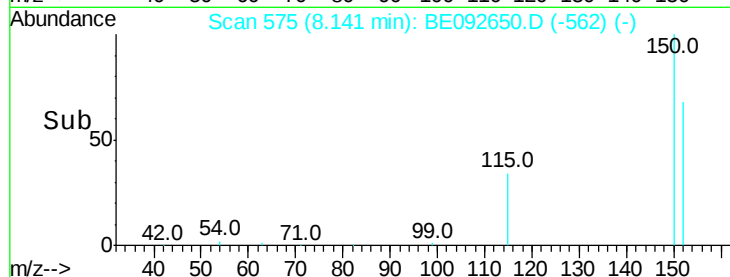
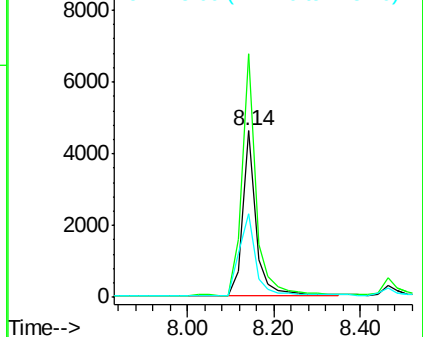
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.45 ng

RT: 3.37 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

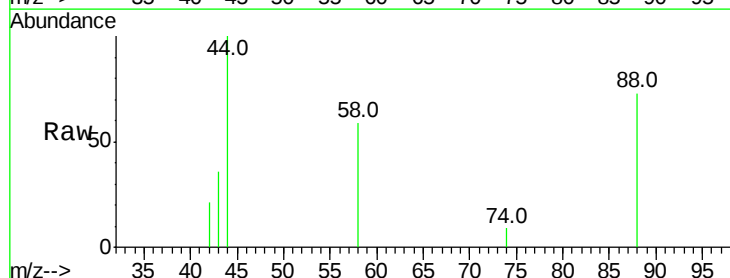
Tgt Ion: 88 Resp: 636

Ion Ratio Lower Upper

88 100

58 71.4 63.6 95.4

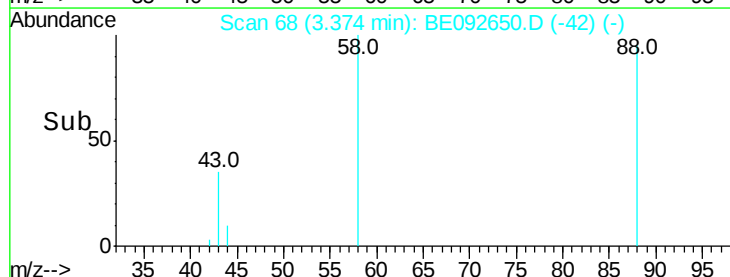
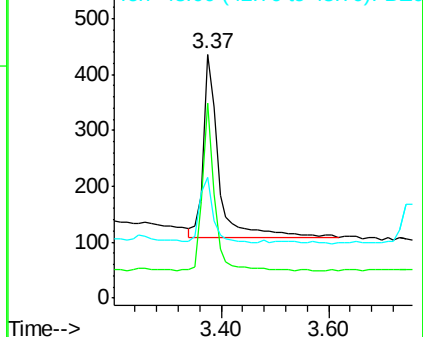
43 31.6 28.0 42.0

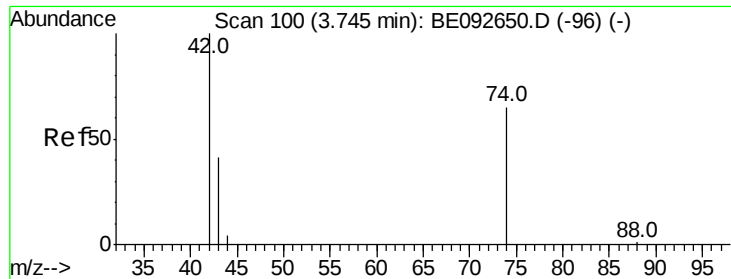


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

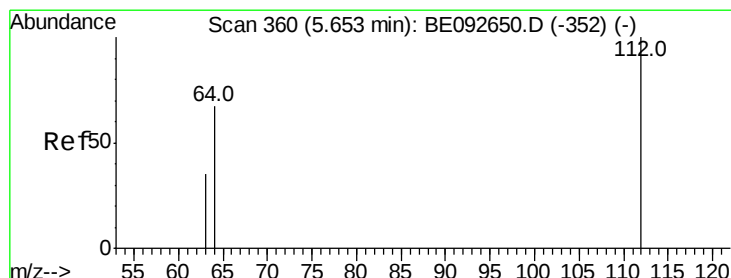
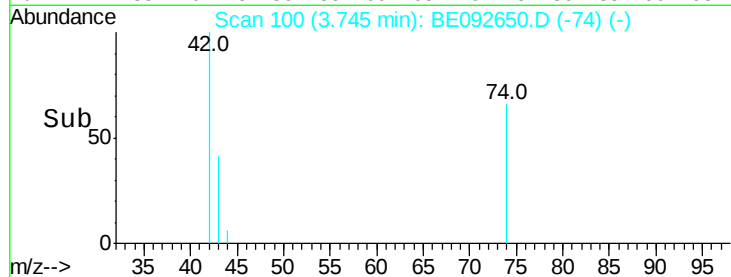
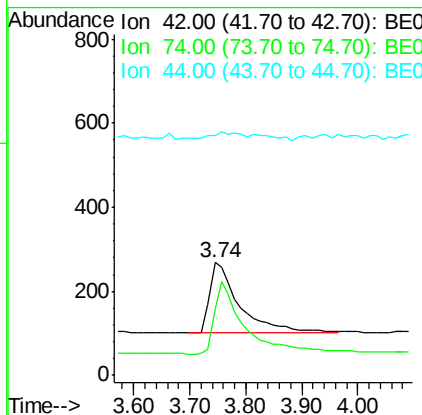
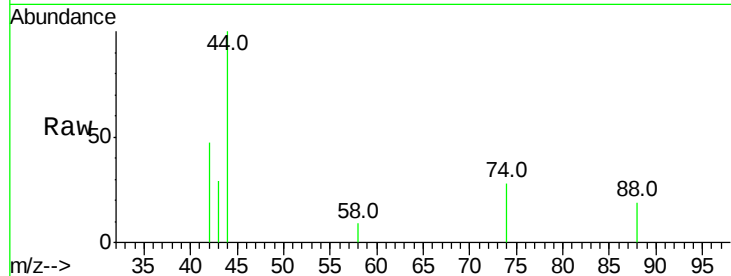
n-Nitrosodimethylamine
Concen: 0.51 ng
RT: 3.74 min Scan# 100
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
42	100		
74	107.6	86.0	129.0
44	8.3	5.1	7.7#

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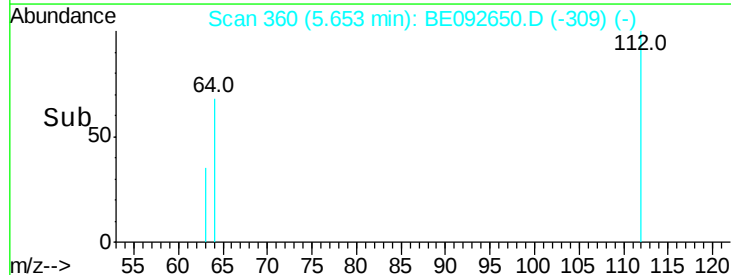
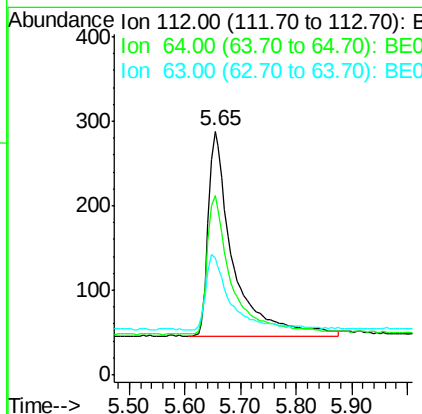
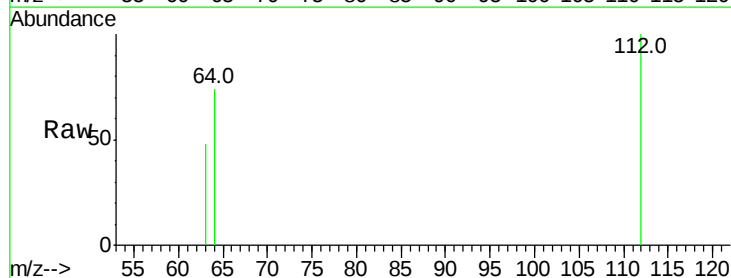
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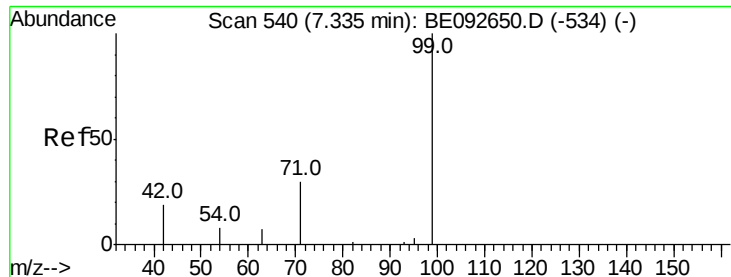


#4

2-Fluorophenol
Concen: 0.50 ng
RT: 5.65 min Scan# 360
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.8	53.5	80.3
63	35.9	27.9	41.9





#5

Phenol-d6

Concen: 0.41 ng

RT: 7.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Instrument :

BNA_E

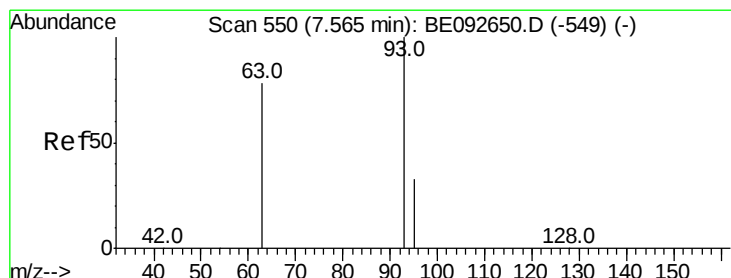
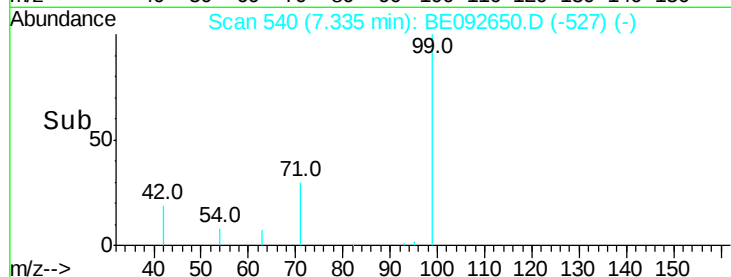
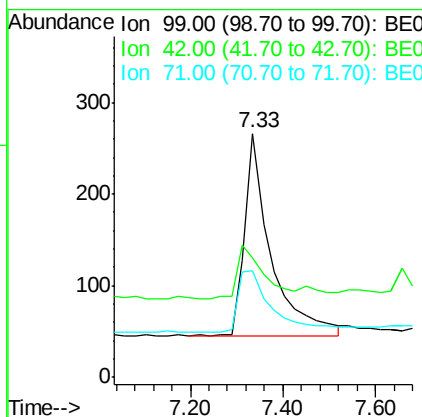
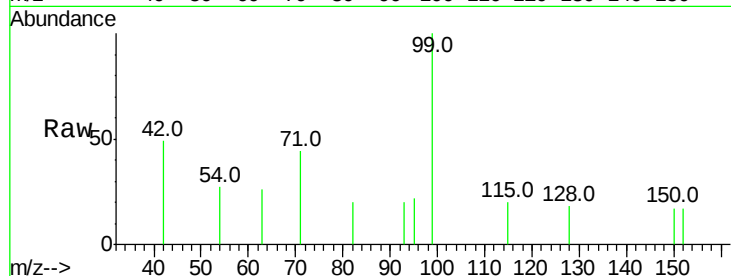
ClientSampleId :

SSTDICCC0.4

Tot Ion:	99	Resp:	878
Ion	Ratio	Lower	Upper
99	100		
42	0.0	16.0	24.0#
71	38.0	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 0.43 ng

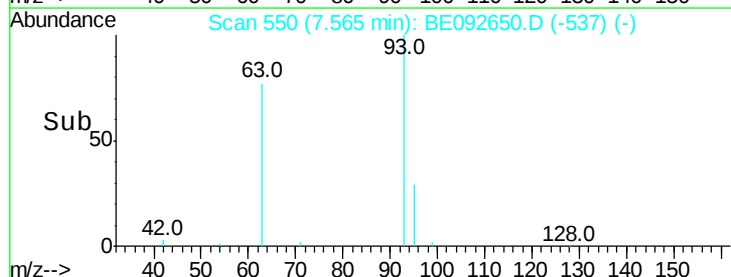
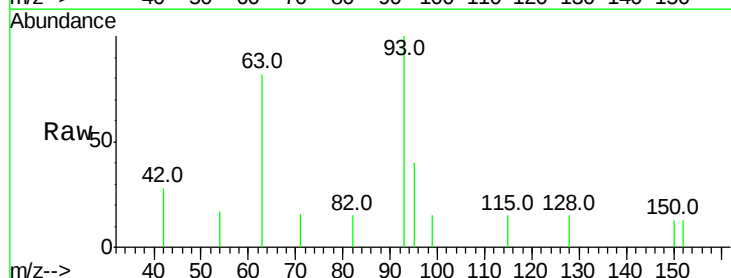
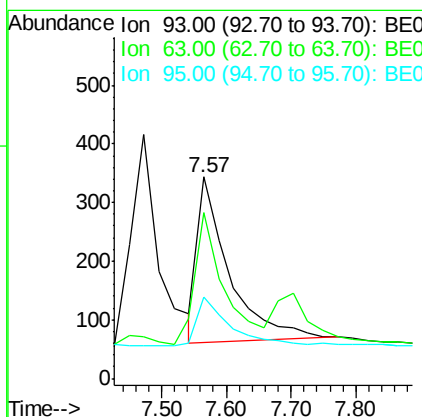
RT: 7.57 min Scan# 550

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Tgt Ion:	93	Resp:	951
Ion	Ratio	Lower	Upper
93	100		
63	73.4	71.6	107.4
95	32.6	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Instrument :

BNA_E

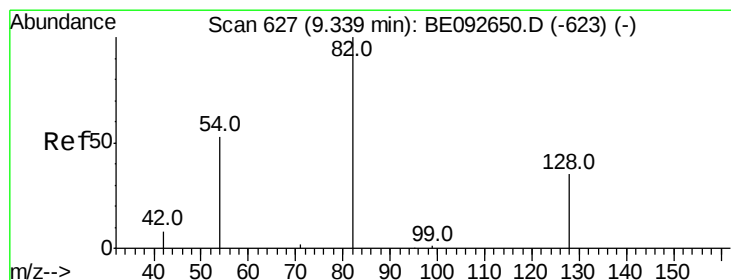
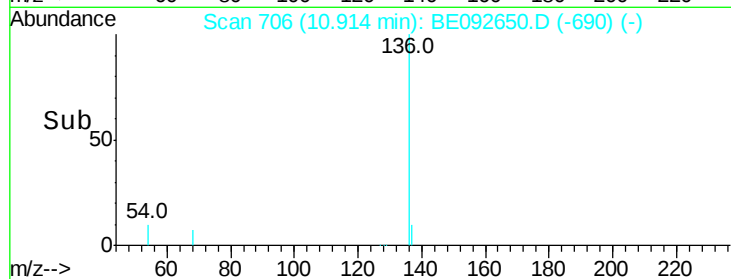
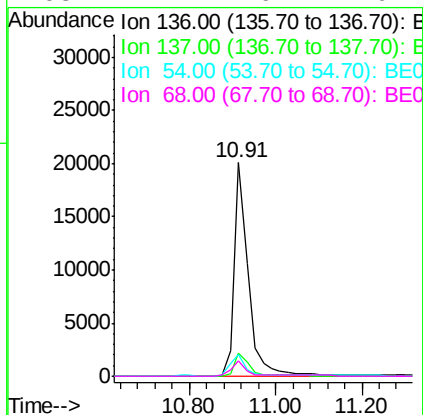
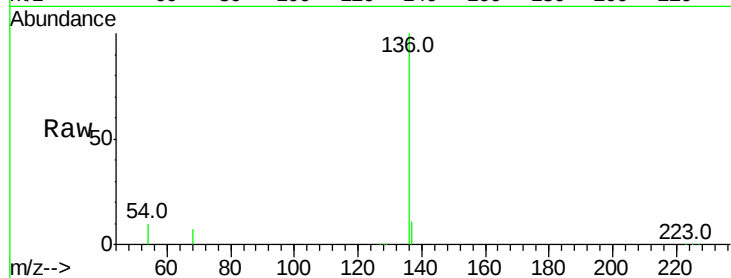
ClientSampleId :

SSTDICCC0.4

Tot Ion:	136	Resp:	45021
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.2	12.4
54	10.2	9.6	14.4
68	7.1	6.7	10.1

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#8

Nitrobenzene-d5

Concen: 0.38 ng

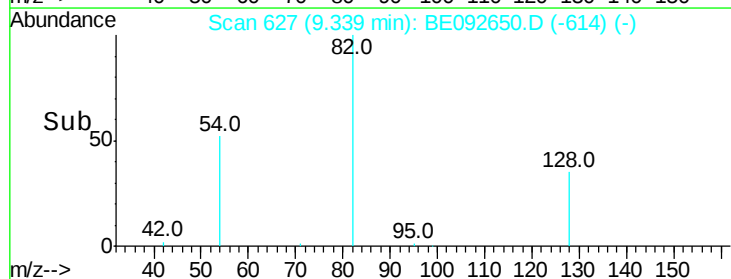
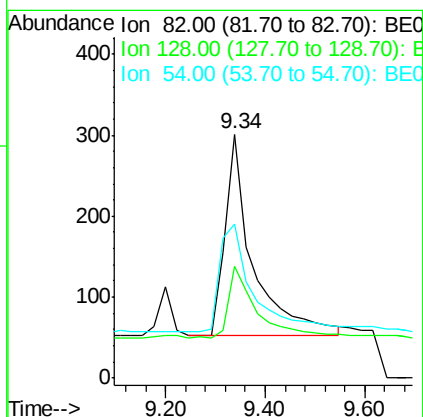
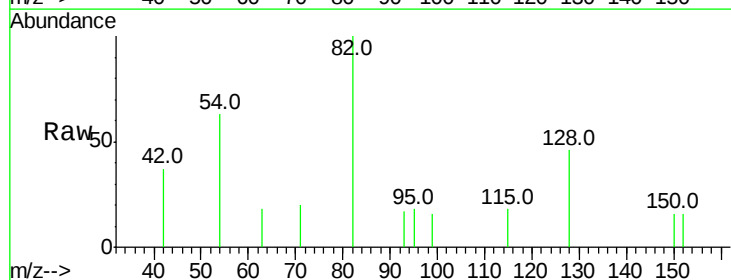
RT: 9.34 min Scan# 627

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Tgt Ion:	82	Resp:	969
Ion Ratio	Lower	Upper	
82	100		
128	45.8	39.0	58.4
54	63.1	44.8	67.2





#9

Naphthalene

Concen: 0.38 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Instrument :

BNA_E

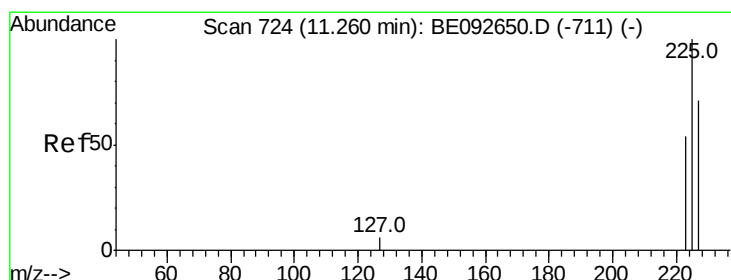
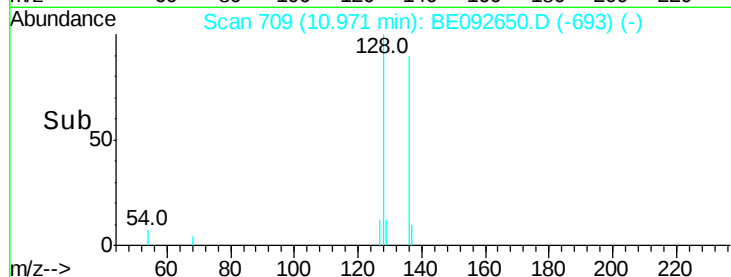
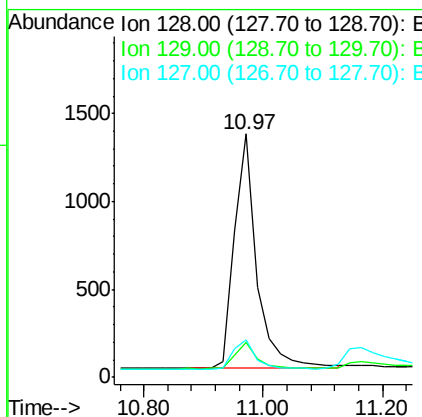
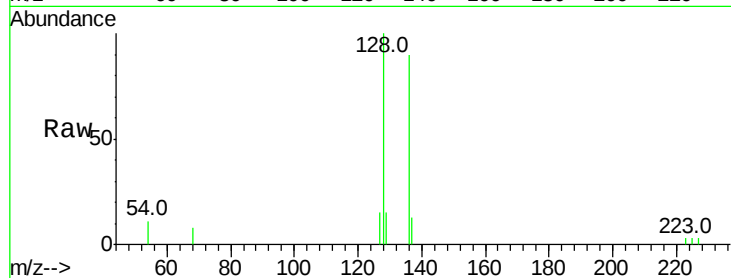
ClientSampleId :

SSTDICCC0.4

Tot Ion:	128	Resp:	3474
Ion	Ratio	Lower	Upper
128	100		
129	14.6	11.2	16.8
127	15.2	11.6	17.4

Manual Integrations
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#10

Hexachlorobutadiene

Concen: 0.38 ng

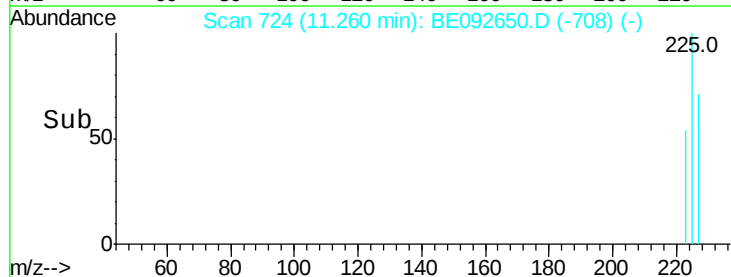
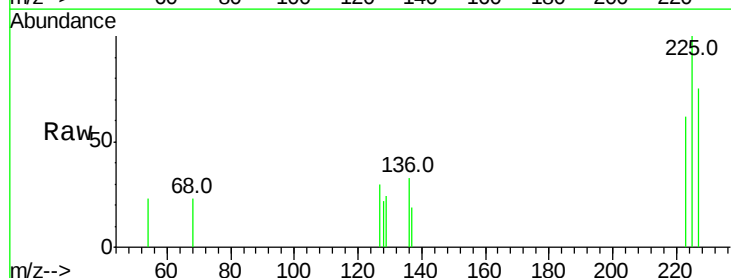
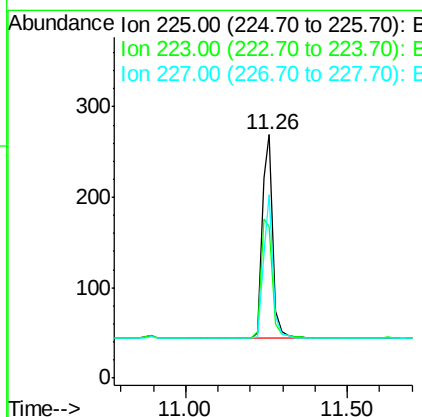
RT: 11.26 min Scan# 724

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Tgt Ion:	225	Resp:	527
Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.6	76.0
227	63.8	51.4	77.0





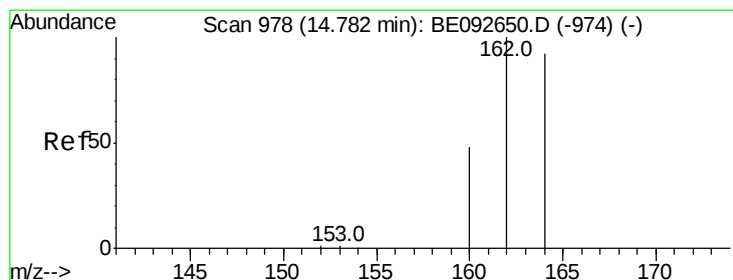
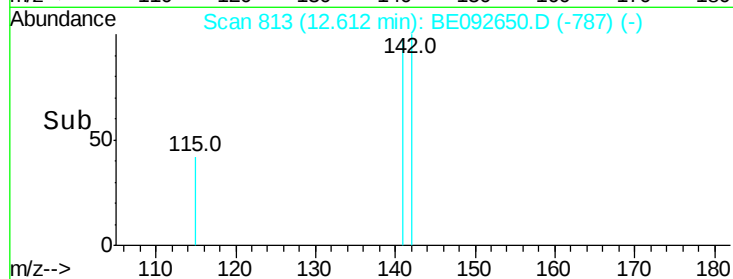
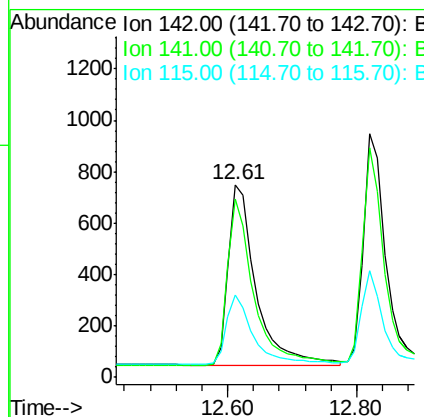
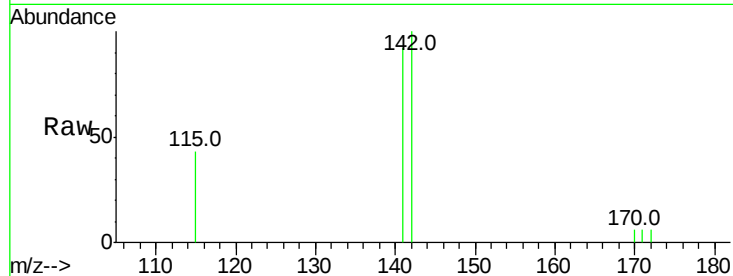
#11
2-Methylnaphthalene
Concen: 0.35 ng
RT: 12.61 min Scan# 813
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion:142 Resp: 2087
Ion Ratio Lower Upper
142 100
141 92.3 73.7 110.5
115 43.1 34.0 51.0

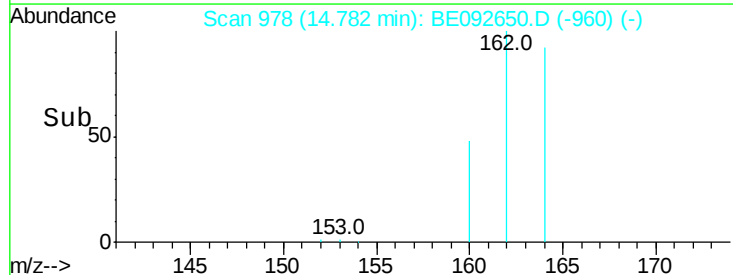
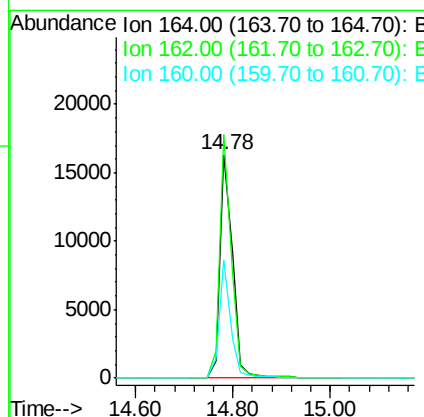
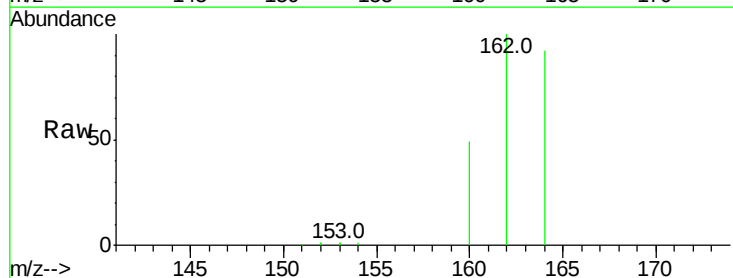
Manual Integrations
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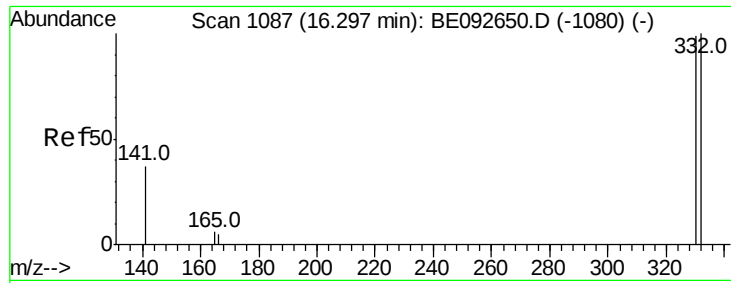
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.78 min Scan# 978
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Tgt Ion:164 Resp: 28854
Ion Ratio Lower Upper
164 100
162 109.0 71.4 107.0#
160 52.9 27.4 41.2#





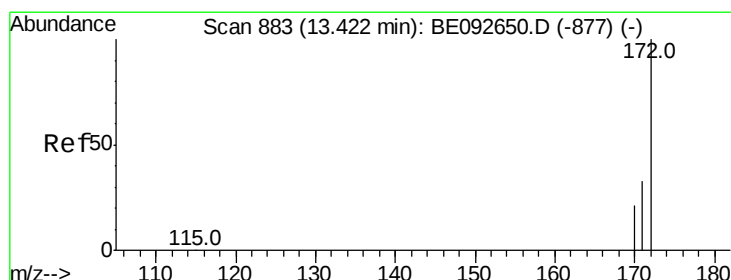
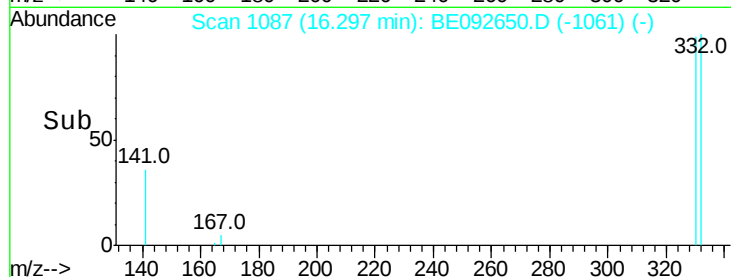
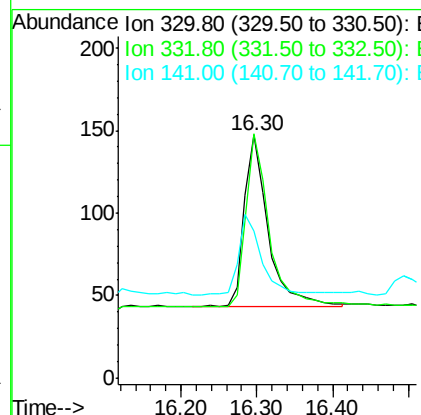
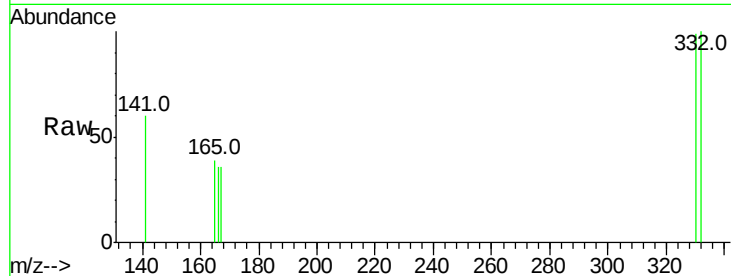
#13
 2,4,6-Tribromophenol
 Concen: 0.36 ng
 RT: 16.30 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: BE092650.D
 Acq: 16 Jan 2017 13:52

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
330	100		
332	100.9	75.4	113.0
141	47.4	31.0	46.6

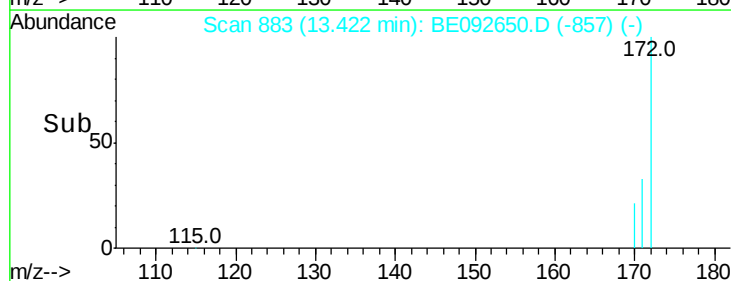
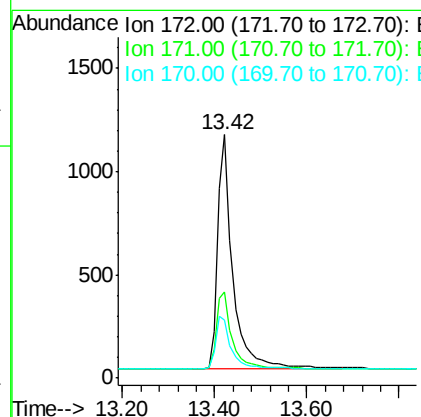
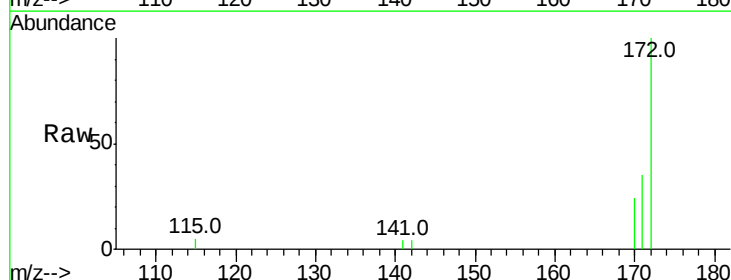
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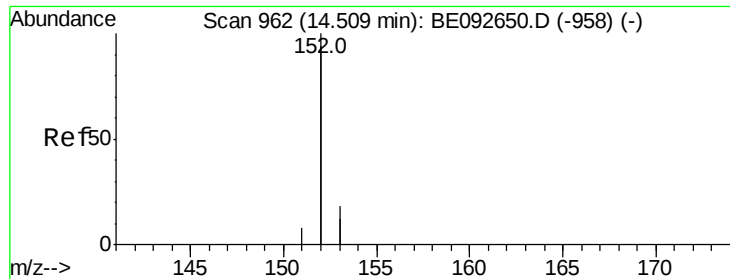
mohammad
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#14
 2-Fluorobiphenyl
 Concen: 0.38 ng
 RT: 13.42 min Scan# 883
 Delta R.T. 0.00 min
 Lab File: BE092650.D
 Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	30.1	45.1
170	23.8	21.8	32.6





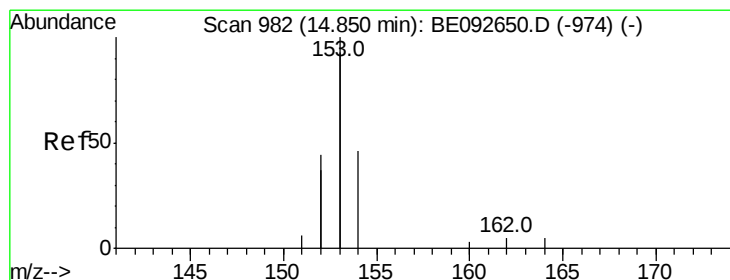
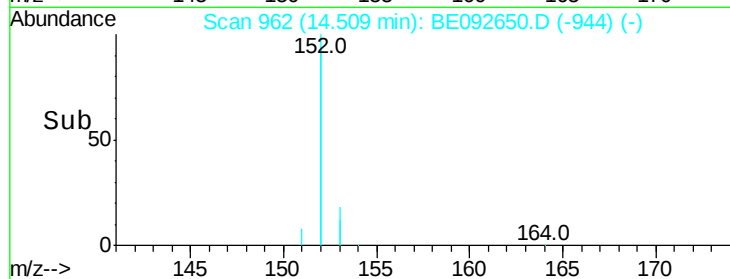
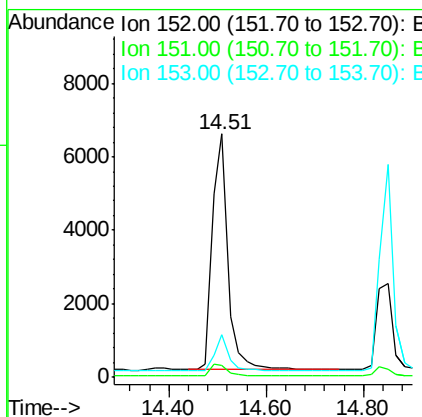
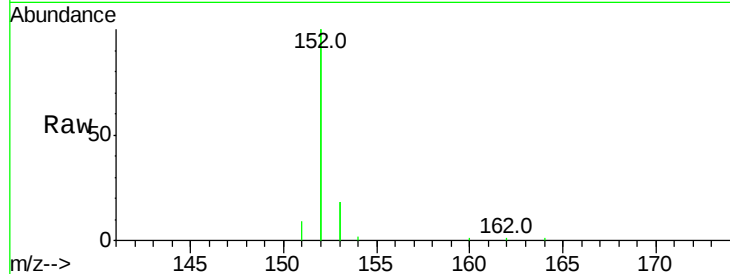
#15
Acenaphthylene
Concen: 0.35 ng
RT: 14.51 min Scan# 962
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.2	10.4	15.6

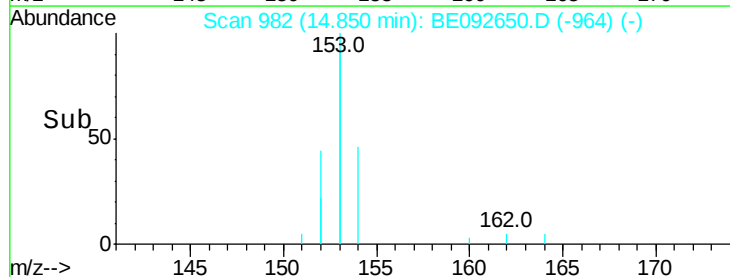
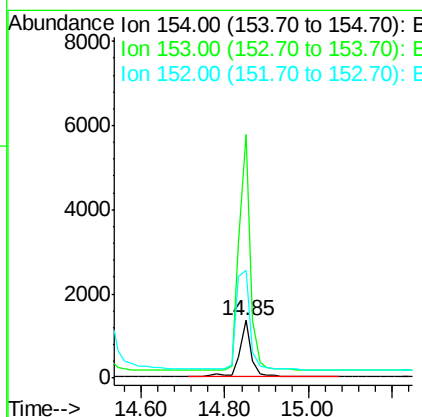
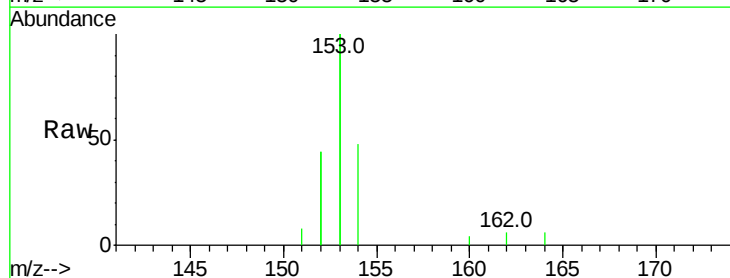
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#16
Acenaphthene
Concen: 0.37 ng
RT: 14.85 min Scan# 982
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
154	100		
153	436.6	350.8	526.2
152	227.7	171.1	256.7





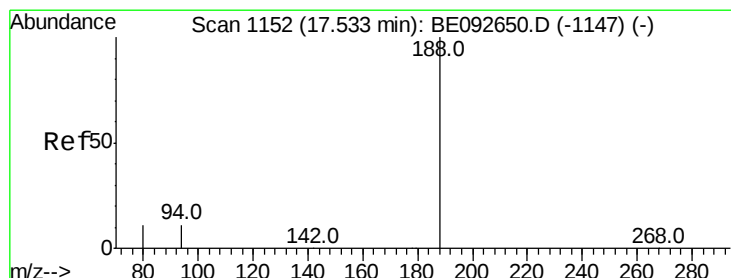
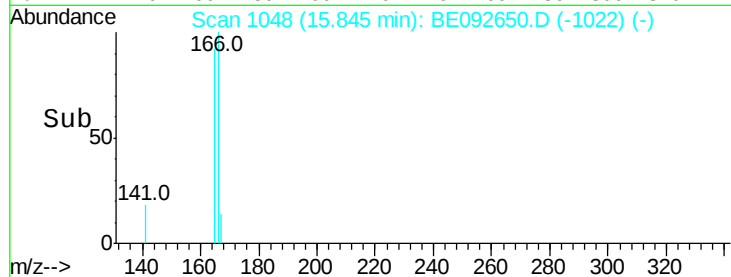
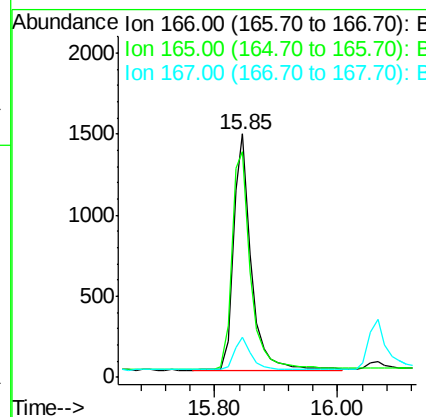
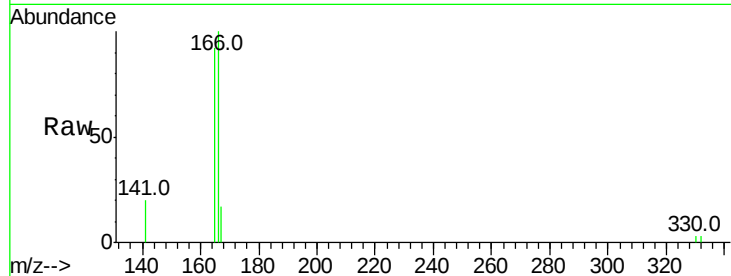
#17
Fluorene
 Concen: 0.36 ng
 RT: 15.85 min Scan# 1048
 Delta R.T. 0.00 min
 Lab File: BE092650.D
 Acq: 16 Jan 2017 13:52

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.2	78.2	117.4
167	13.7	11.0	16.4

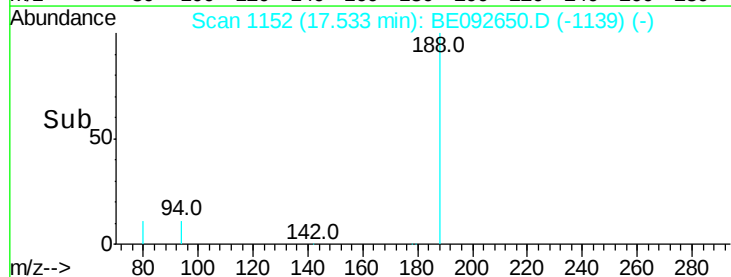
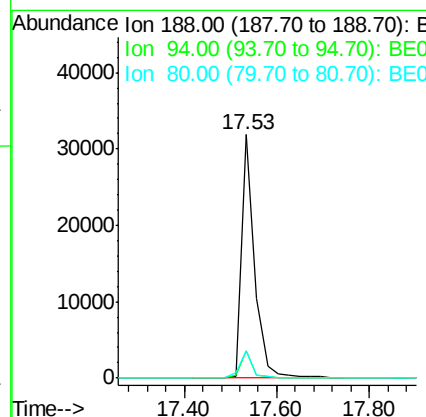
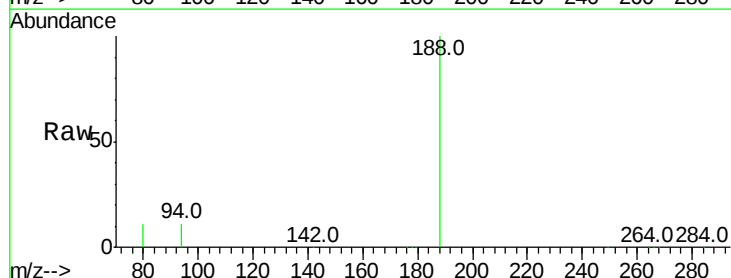
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.53 min Scan# 1152
 Delta R.T. 0.00 min
 Lab File: BE092650.D
 Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.4	3.2	4.8#
80	11.5	2.6	3.8#





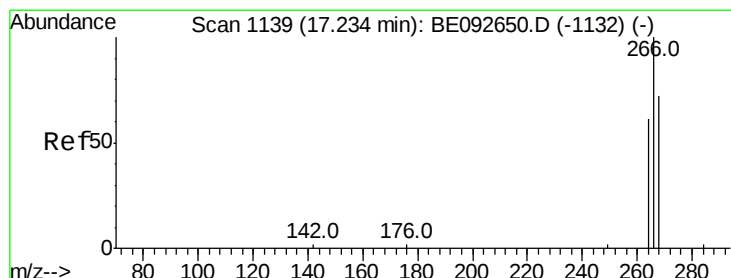
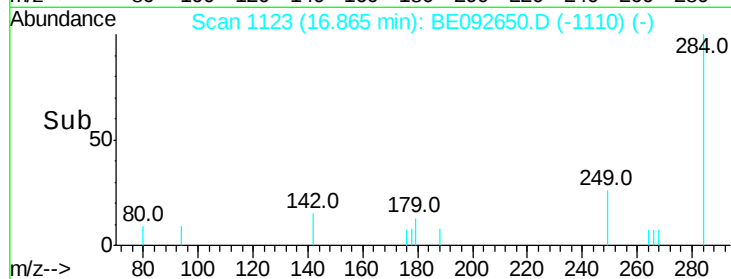
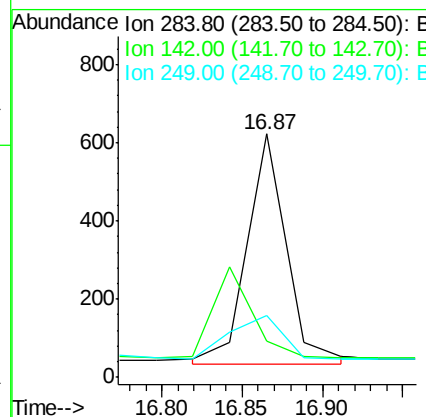
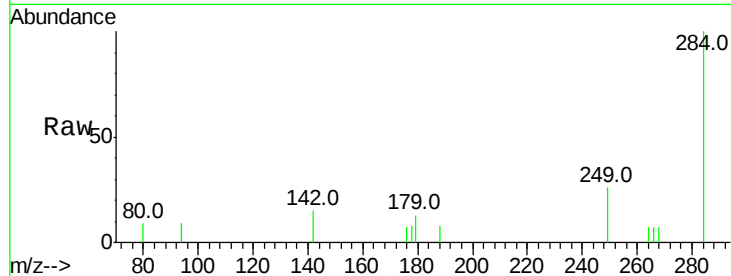
#19
Hexachlorobenzene
Concen: 0.37 ng m
RT: 16.87 min Scan# 1123
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	36.9	27.9	41.9

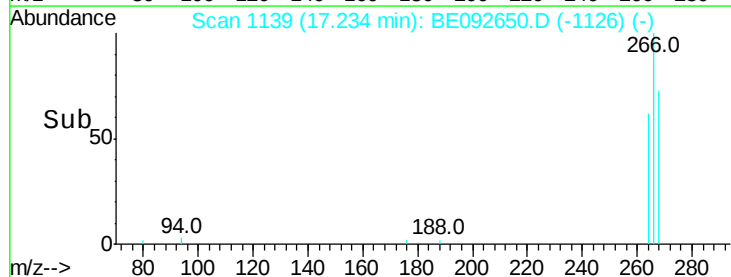
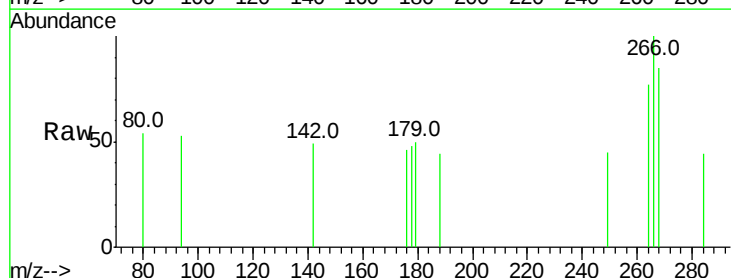
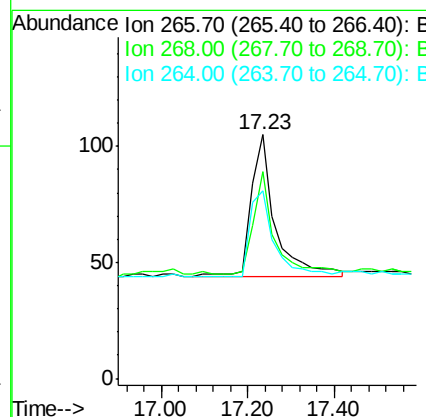
Manual Integrations
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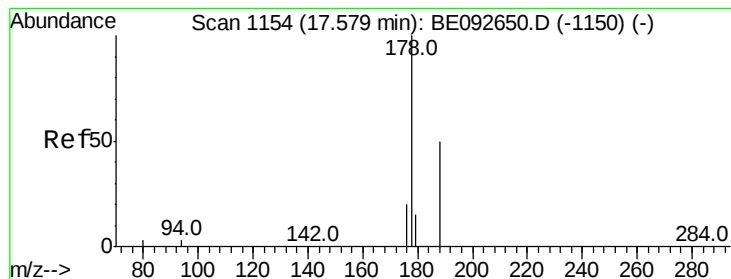
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#20
Pentachlorophenol
Concen: 0.52 ng
RT: 17.23 min Scan# 1139
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
266	100		
268	84.8	62.5	93.7
264	77.1	57.2	85.8





#21

Phenanthrene

Concen: 0.34 ng

RT: 17.58 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Instrument :

BNA_E

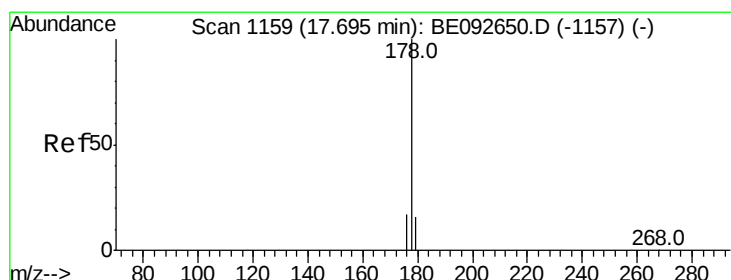
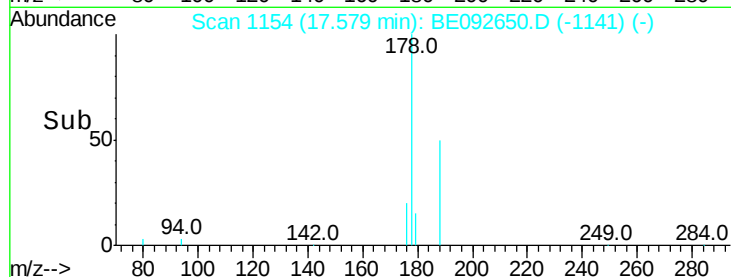
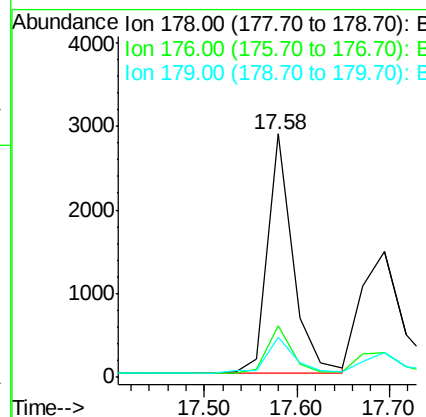
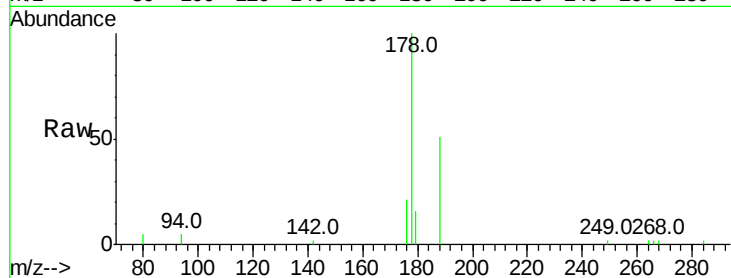
ClientSampleId :

SSTDICCC0.4

Tot Ion:178	Resp:	5365
Ion Ratio	Lower	Upper
178	100	
176	19.4	15.8 23.8
179	16.1	16.0 24.0

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#22

Anthracene

Concen: 0.32 ng

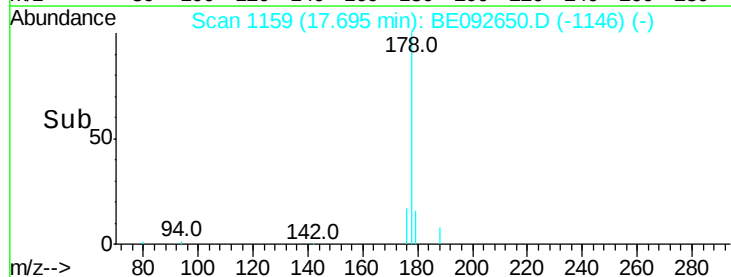
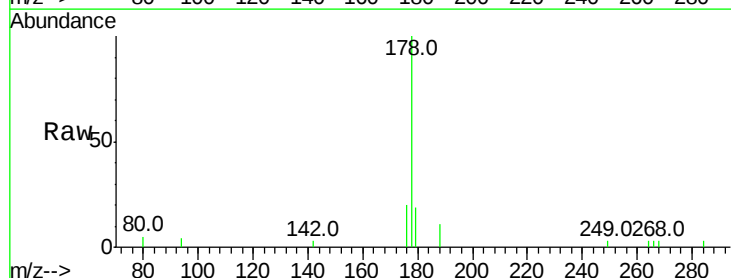
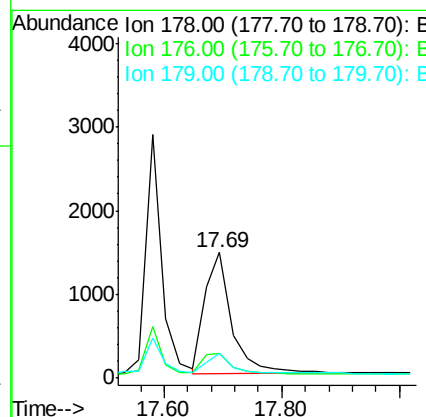
RT: 17.69 min Scan# 1159

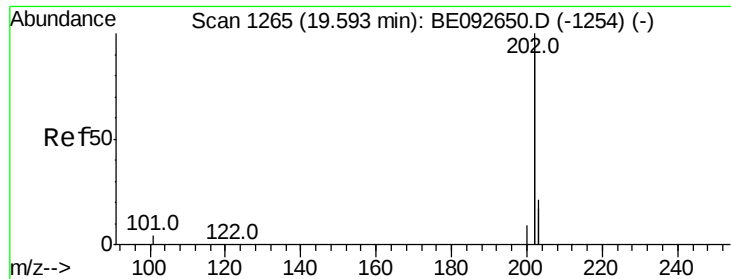
Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Tgt Ion:178	Resp:	4565
Ion Ratio	Lower	Upper
178	100	
176	18.9	15.0 22.4
179	15.8	12.2 18.2





#23

Fluoranthene

Concen: 0.33 ng

RT: 19.59 min Scan# 1265

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Instrument :

BNA_E

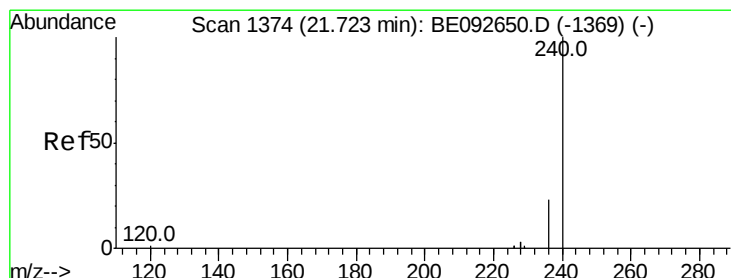
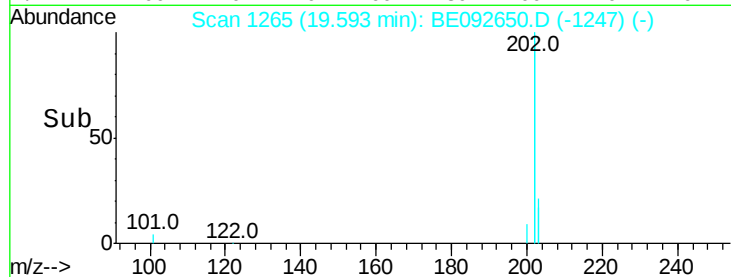
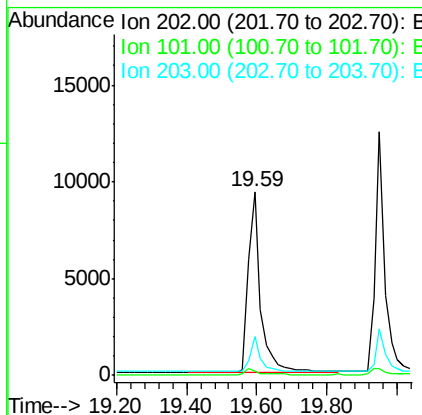
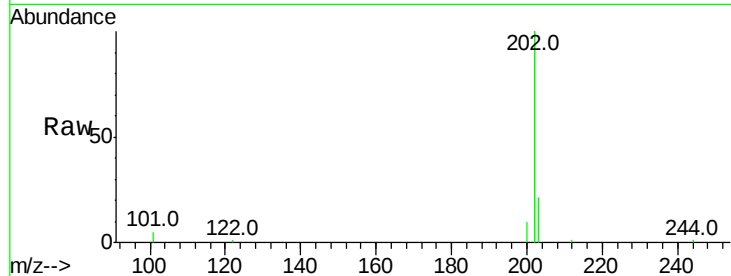
ClientSampleId :

SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
202	100		
101	2.9	2.2	3.4
203	17.4	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

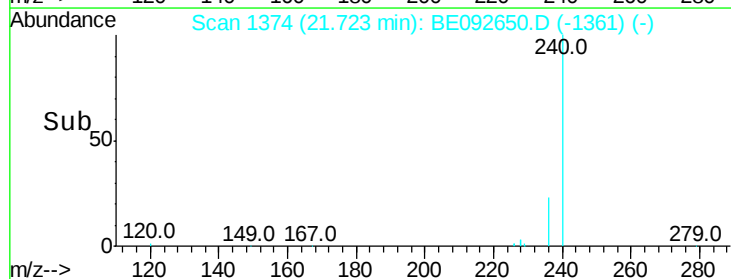
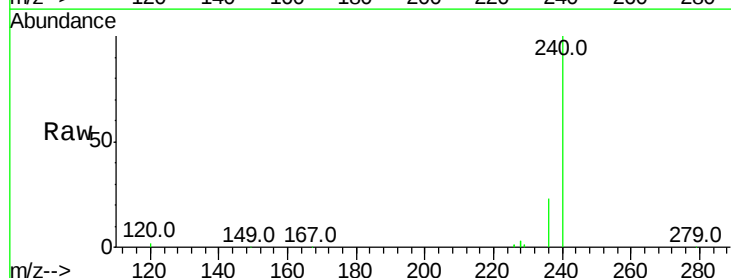
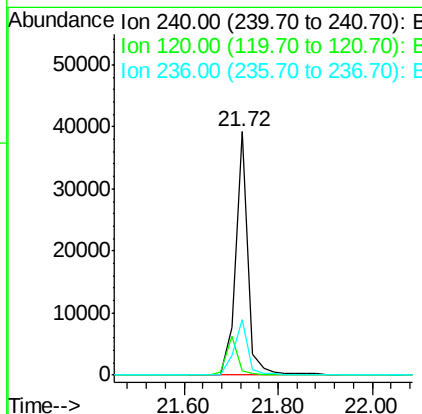
RT: 21.72 min Scan# 1374

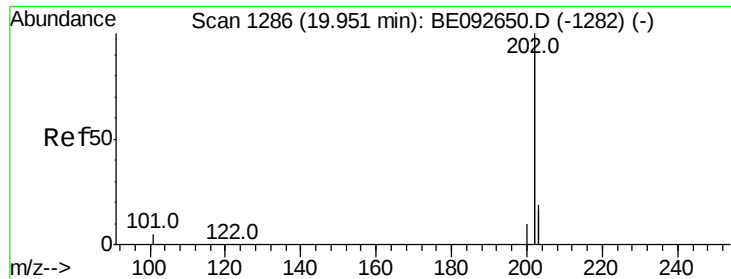
Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
240	100		
120	1.6	2.6	4.0#
236	23.0	24.6	37.0#





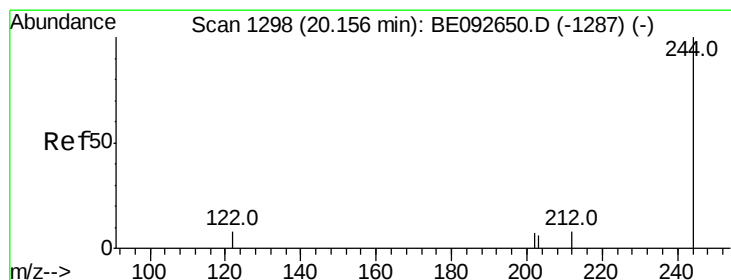
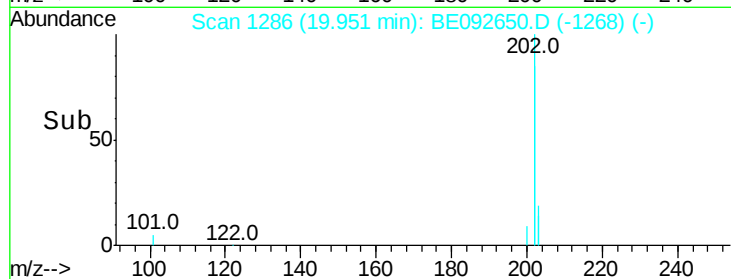
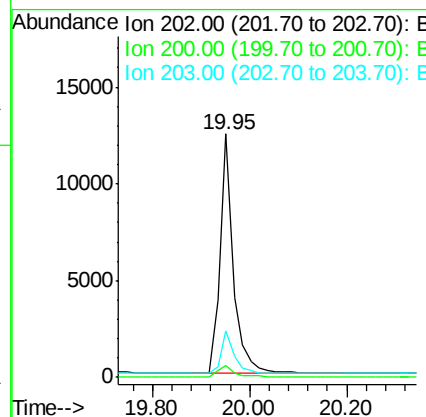
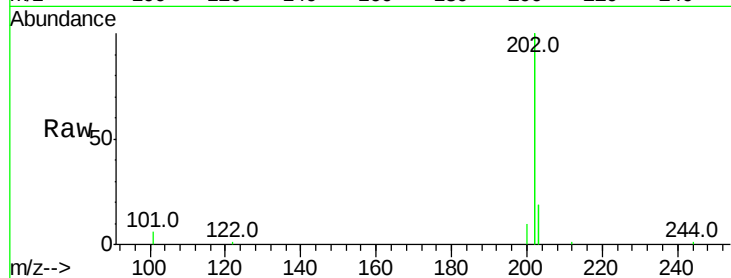
#25
Pvrene
Concen: 0.37 ng
RT: 19.95 min Scan# 1286
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.2	4.2	6.4
203	17.6	13.9	20.9

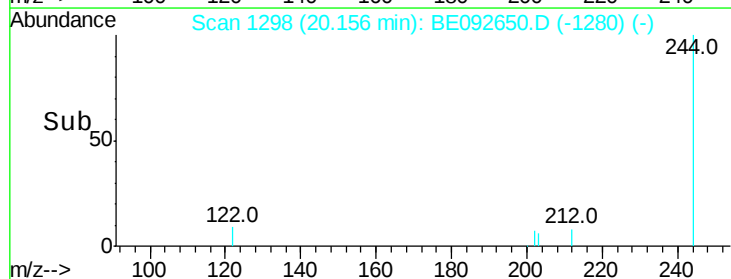
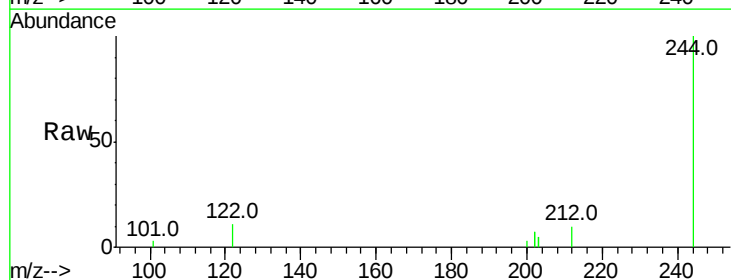
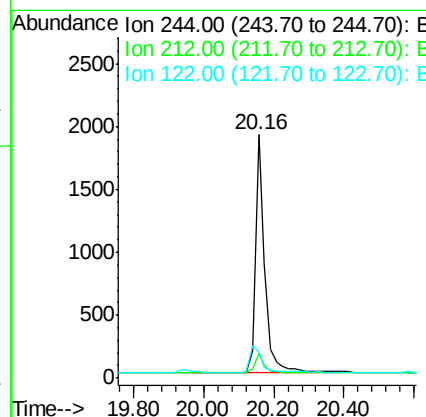
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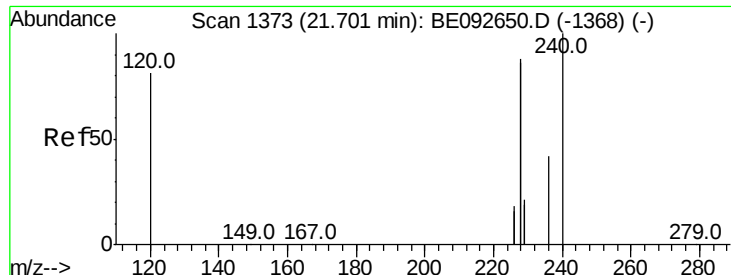
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#26
Terphenyl-d14
Concen: 0.40 ng
RT: 20.16 min Scan# 1298
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	6.7	10.1#
122	10.8	3.6	5.4#





#27

Benzo(a)anthracene

Concen: 0.38 ng

RT: 21.70 min Scan# 1373

Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Instrument :

BNA_E

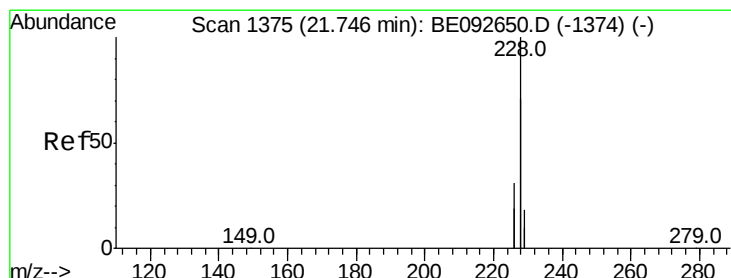
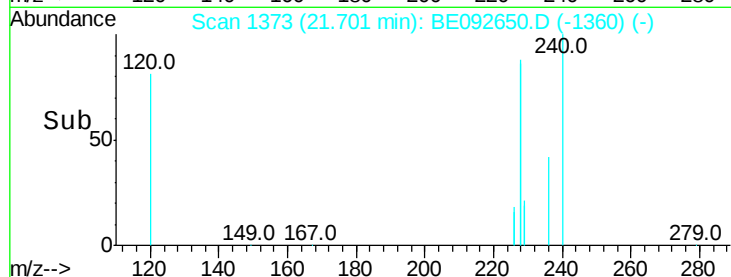
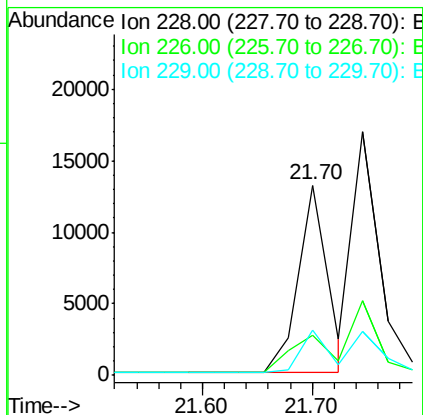
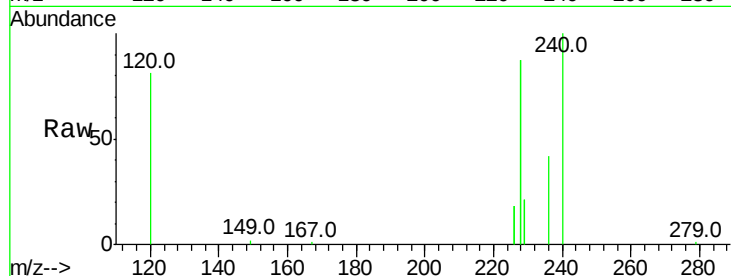
ClientSampleId :

SSTDICCC0.4

Tot Ion:	228	Resp:	24306
Ion Ratio	Lower	Upper	
228	100		
226	20.8	23.6	35.4#
229	24.1	13.3	19.9#

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#28

Chrysene

Concen: 0.40 ng m

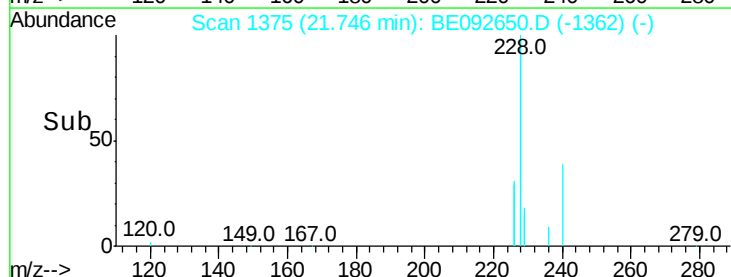
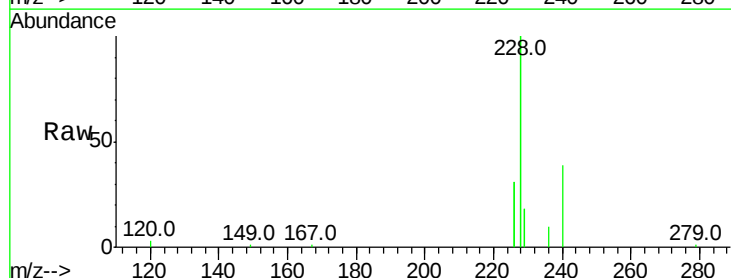
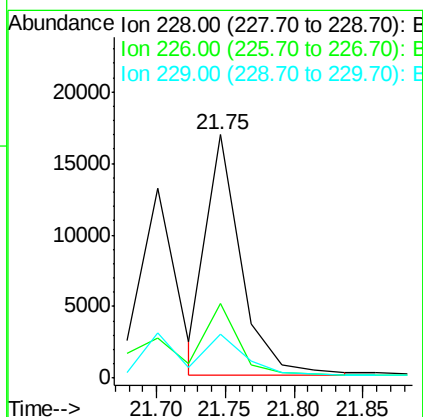
RT: 21.75 min Scan# 1375

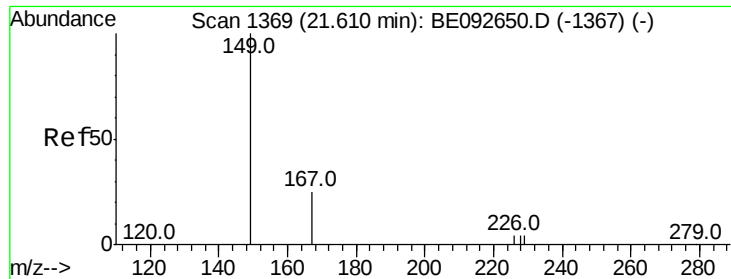
Delta R.T. 0.00 min

Lab File: BE092650.D

Acq: 16 Jan 2017 13:52

Tgt Ion:	228	Resp:	29479
Ion Ratio	Lower	Upper	
228	100		
226	30.7	36.3	54.5#
229	17.9	10.6	16.0#





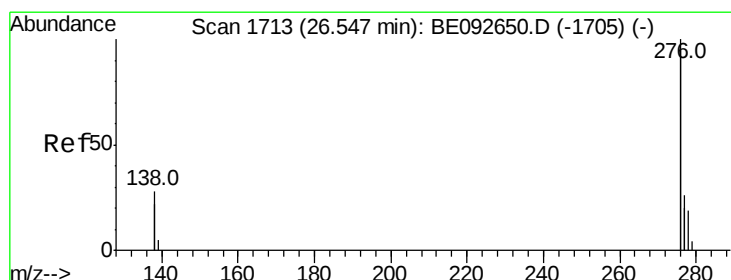
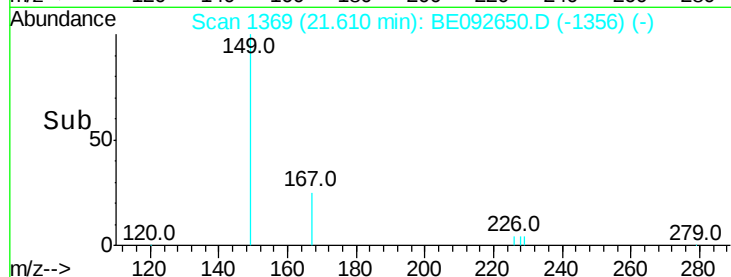
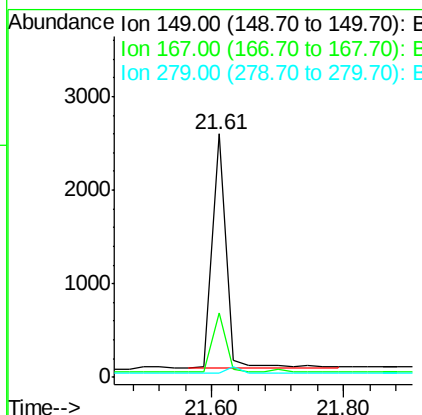
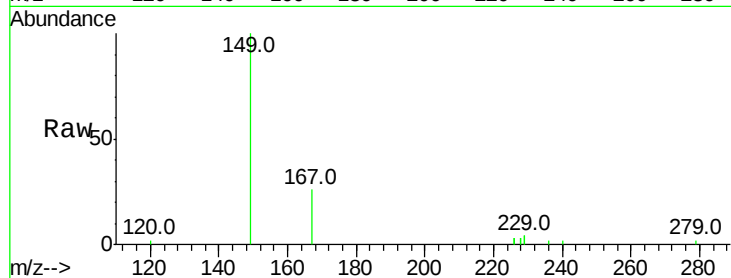
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.54 ng
 RT: 21.61 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: BE092650.D
 Acq: 16 Jan 2017 13:52

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
149	100		
167	24.6	16.0	24.0#
279	0.0	16.0	24.0#

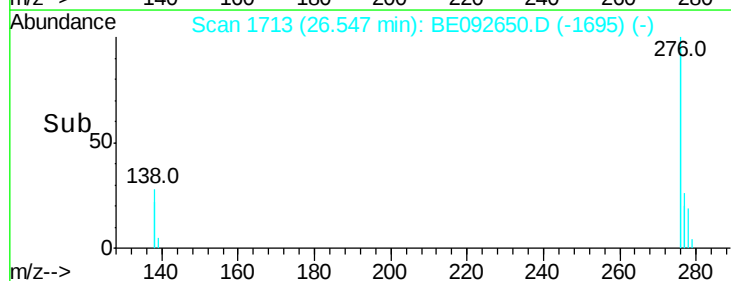
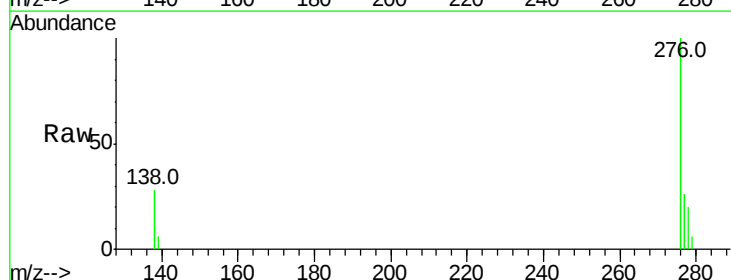
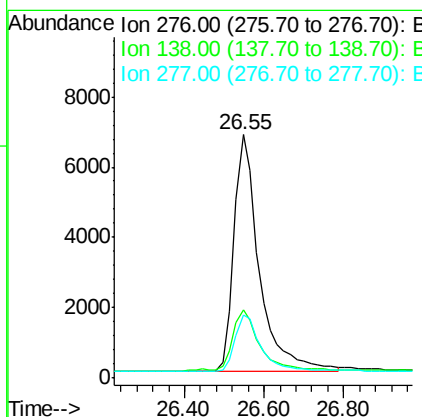
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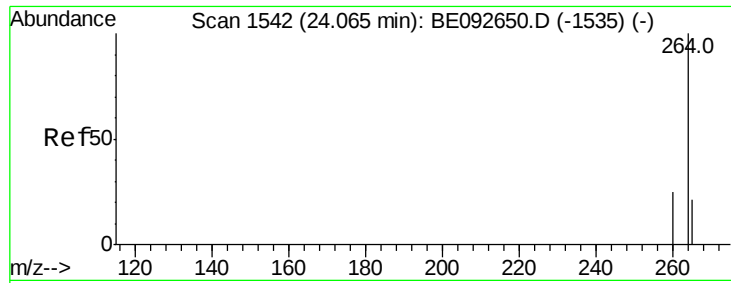
mohammad
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#30
 Indeno(1,2,3-cd)pyrene
 Concen: 0.45 ng
 RT: 26.55 min Scan# 1713
 Delta R.T. 0.00 min
 Lab File: BE092650.D
 Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.6	20.3	30.5
277	24.6	19.7	29.5





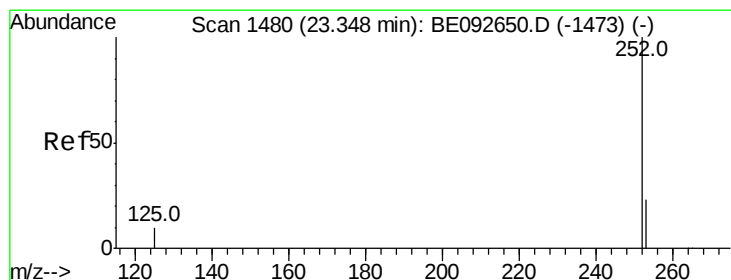
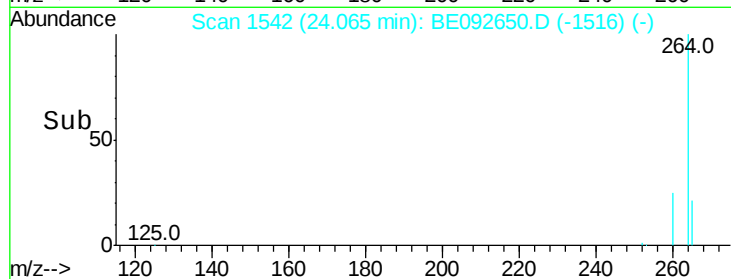
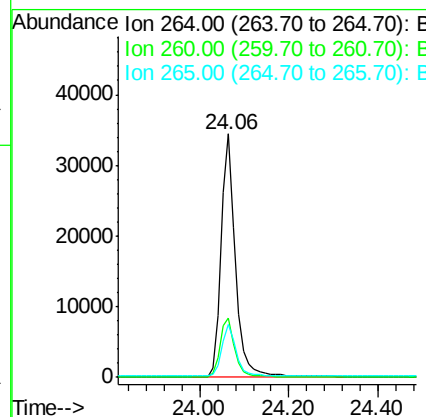
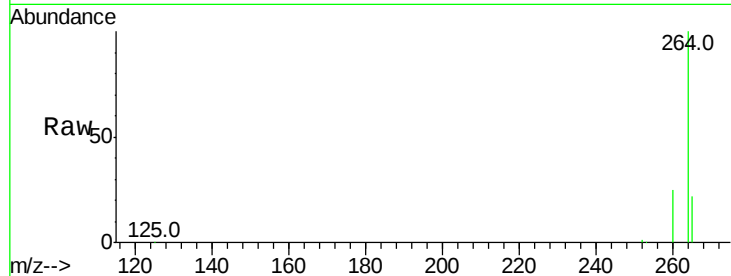
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.06 min Scan# 1542
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	20.1	30.1
265	21.9	17.9	26.9

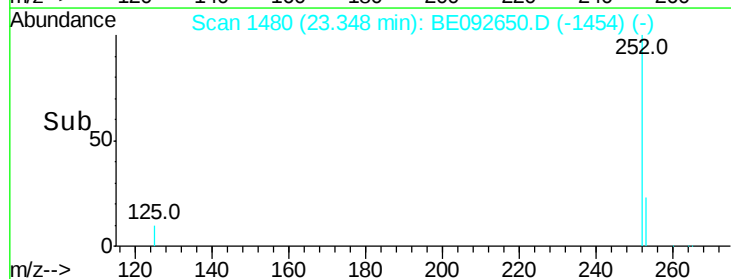
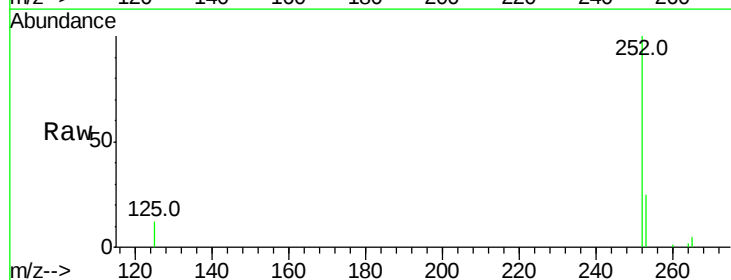
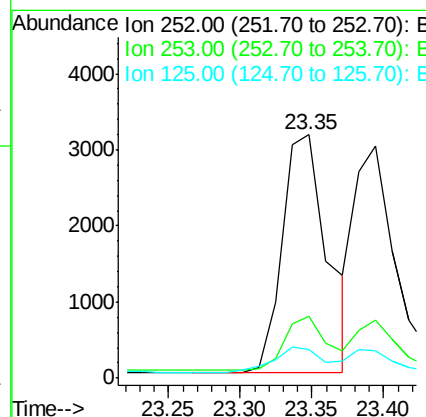
Manual Integrations
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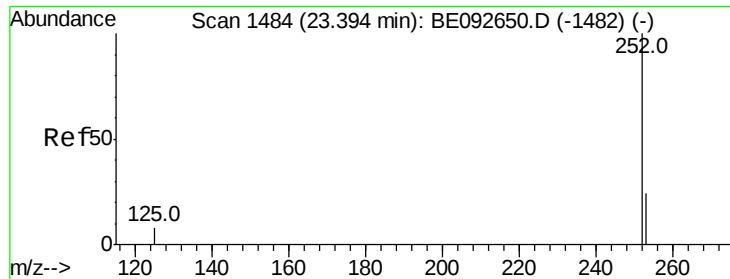
mohammad
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#32
Benzo(b)fluoranthene
Concen: 0.39 ng
RT: 23.35 min Scan# 1480
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	18.7	28.1
125	11.8	10.5	15.7





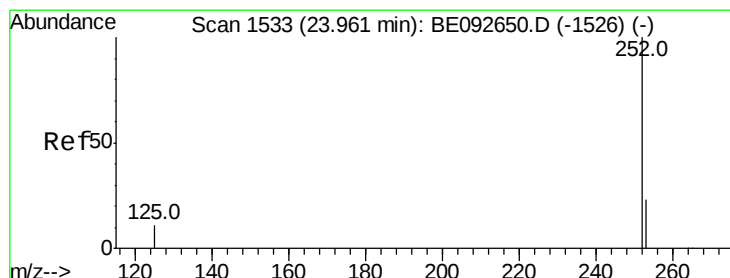
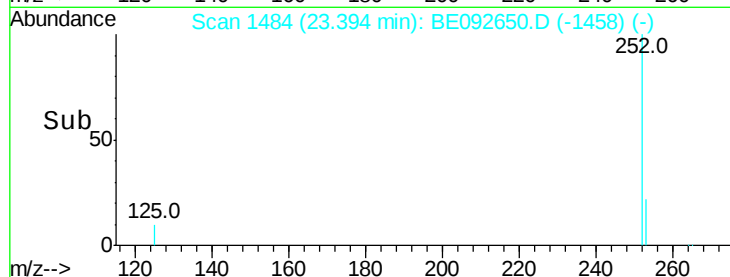
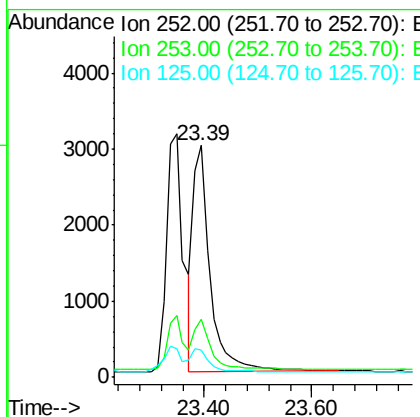
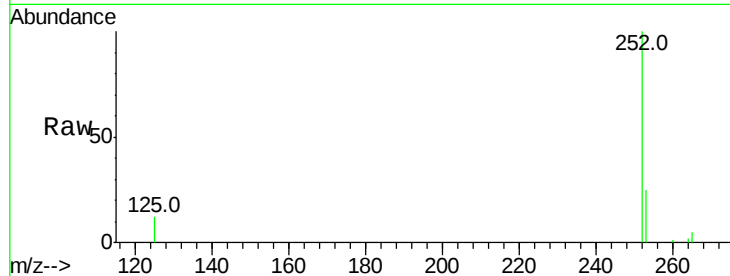
#33
Benzo(k)fluoranthene
Concen: 0.33 ng
RT: 23.39 min Scan# 1484
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion:252 Resp: 6462
Ion Ratio Lower Upper
252 100
253 25.0 20.3 30.5
125 11.8 9.6 14.4

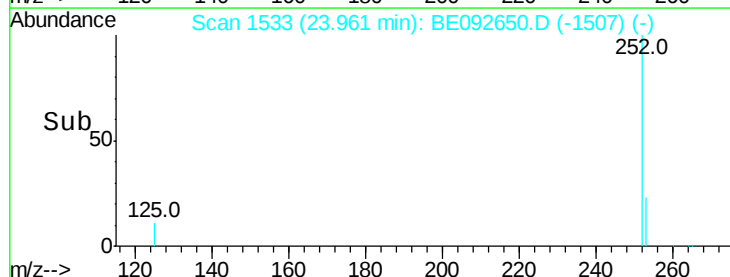
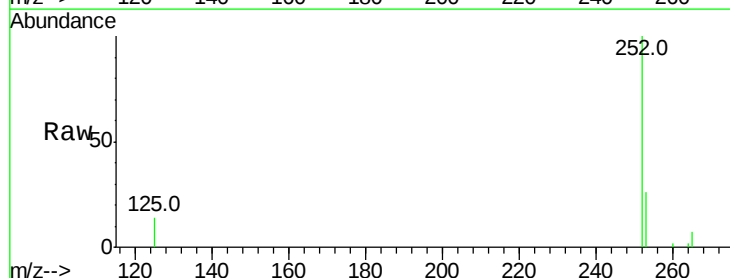
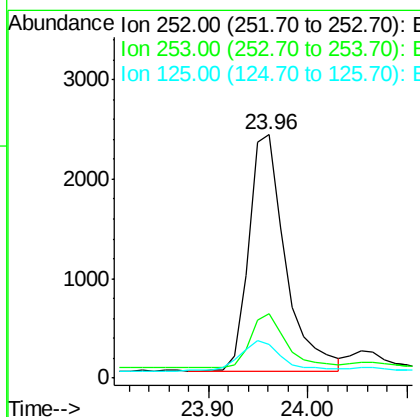
Manual Integrations
APPROVED

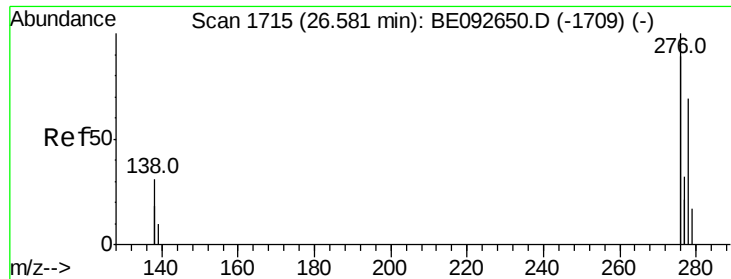
mohammad
1/17/2017 4:40:01 PM



#34
Benzo(a)pyrene
Concen: 0.35 ng
RT: 23.96 min Scan# 1533
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Tgt Ion:252 Resp: 6076
Ion Ratio Lower Upper
252 100
253 26.4 19.0 28.6
125 13.6 11.8 17.8





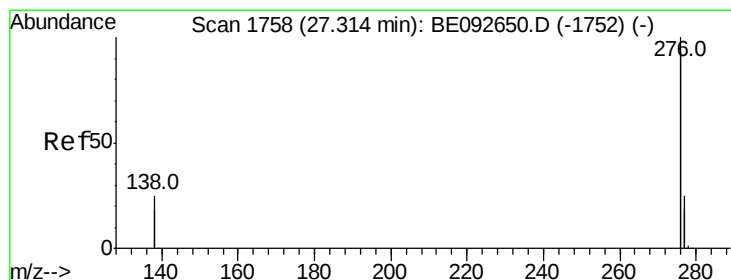
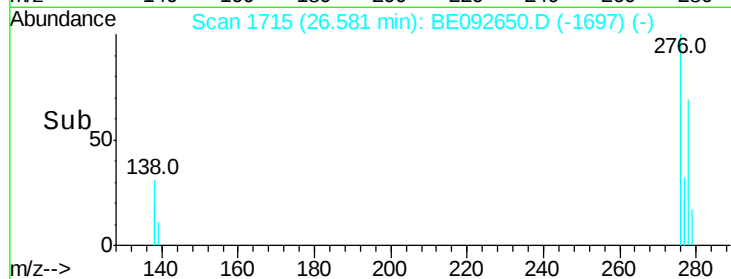
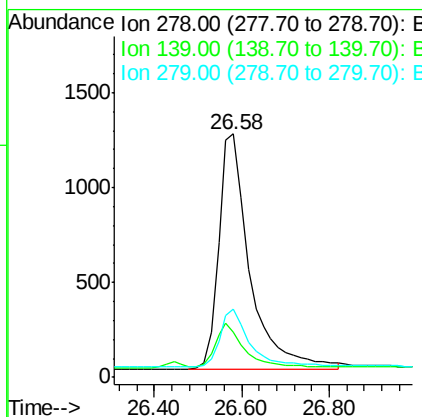
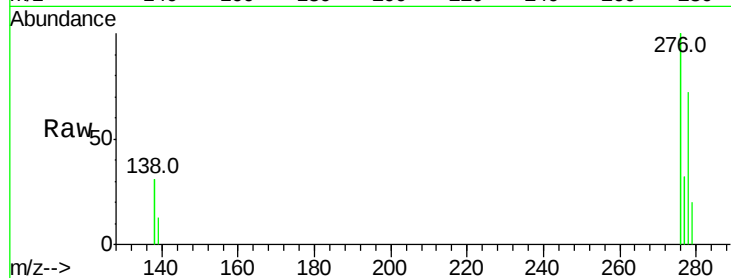
#35
Dibenzo(a,h)anthracene
Concen: 0.37 ng
RT: 26.58 min Scan# 1715
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.7	13.8	20.8
279	27.8	21.4	32.2

Manual Integrations
APPROVED

mohammad
1/17/2017 4:40:01 PM



#36
Benzo(g,h,i)perylene
Concen: 0.38 ng
RT: 27.31 min Scan# 1758
Delta R.T. 0.00 min
Lab File: BE092650.D
Acq: 16 Jan 2017 13:52

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.8	29.8
138	24.8	19.8	29.6

