

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030617\
 Data File : BE092784.D
 Acq On : 6 Mar 2017 12:45
 Operator : SJ/MA
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

Manual Integrations
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Quant Time: Mar 06 14:35:59 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 14:29:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	10028	5.00	ng	0.00
7) Naphthalene-d8	10.88	136	45734	5.00	ng	0.00
12) Acenaphthene-d10	14.75	164	30656	5.00	ng	0.00
18) Phenanthrene-d10	17.51	188	62601	5.00	ng	0.00
24) Chrysene-d12	21.68	240	90431	5.00	ng	0.00
31) Perylene-d12	24.01	264	74256	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.60	112	3314	1.70	ng	0.00
5) Phenol-d6	7.27	99	4184	1.75	ng	-0.02
8) Nitrobenzene-d5	9.27	82	4645	1.82	ng	-0.02
13) 2,4,6-Tribromophenol	16.25	330	1326	2.04	ng	-0.01
14) 2-Fluorobiphenyl	13.36	172	11737	1.57	ng	-0.02
26) Terphenyl-d14	20.12	244	16700	1.45	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.33	88	2052	1.44	ng	98
3) n-Nitrosodimethylamine	3.69	42	2748	1.85	ng	98
6) bis(2-Chloroethyl)ether	7.52	93	4691	1.77	ng	87
9) Naphthalene	10.91	128	15587	1.57	ng	# 96
10) Hexachlorobutadiene	11.20	225	2305	1.58	ng	99
11) 2-Methylnaphthalene	12.56	142	10425	1.68	ng	93
15) Acenaphthylene	14.46	152	74966	1.62	ng	100
16) Acenaphthene	14.81	154	10837	1.61	ng	90
17) Fluorene	15.80	166	14660	1.70	ng	100
19) Hexachlorobenzene	16.82	284	4294	1.78	ng	# 66
20) Pentachlorophenol	17.19	266	1272	2.39	ng	91
21) Phenanthrene	17.53	178	24255	1.63	ng	# 94
22) Anthracene	17.63	178	24168m	1.76	ng	
23) Fluoranthene	19.54	202	118743	1.86	ng	99
25) Pyrene	19.90	202	124527	1.45	ng	100
27) Benzo(a)anthracene	21.66	228	139682m	1.59	ng	
28) Chrysene	21.70	228	123106m	1.18	ng	
29) Bis(2-ethylhexyl)phthalate	21.59	149	9969	0.82	ng	# 69
30) Indeno(1,2,3-cd)pyrene	26.45	276	134369	1.15	ng	97
32) Benzo(b)fluoranthene	23.29	252	32415	1.54	ng	# 97
33) Benzo(k)fluoranthene	23.34	252	31224	1.41	ng	95
34) Benzo(a)pyrene	23.90	252	29033	1.52	ng	# 96
35) Dibenzo(a,h)anthracene	26.48	278	28118	1.40	ng	96
36) Benzo(g,h,i)perylene	27.21	276	117018	1.38	ng	97

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

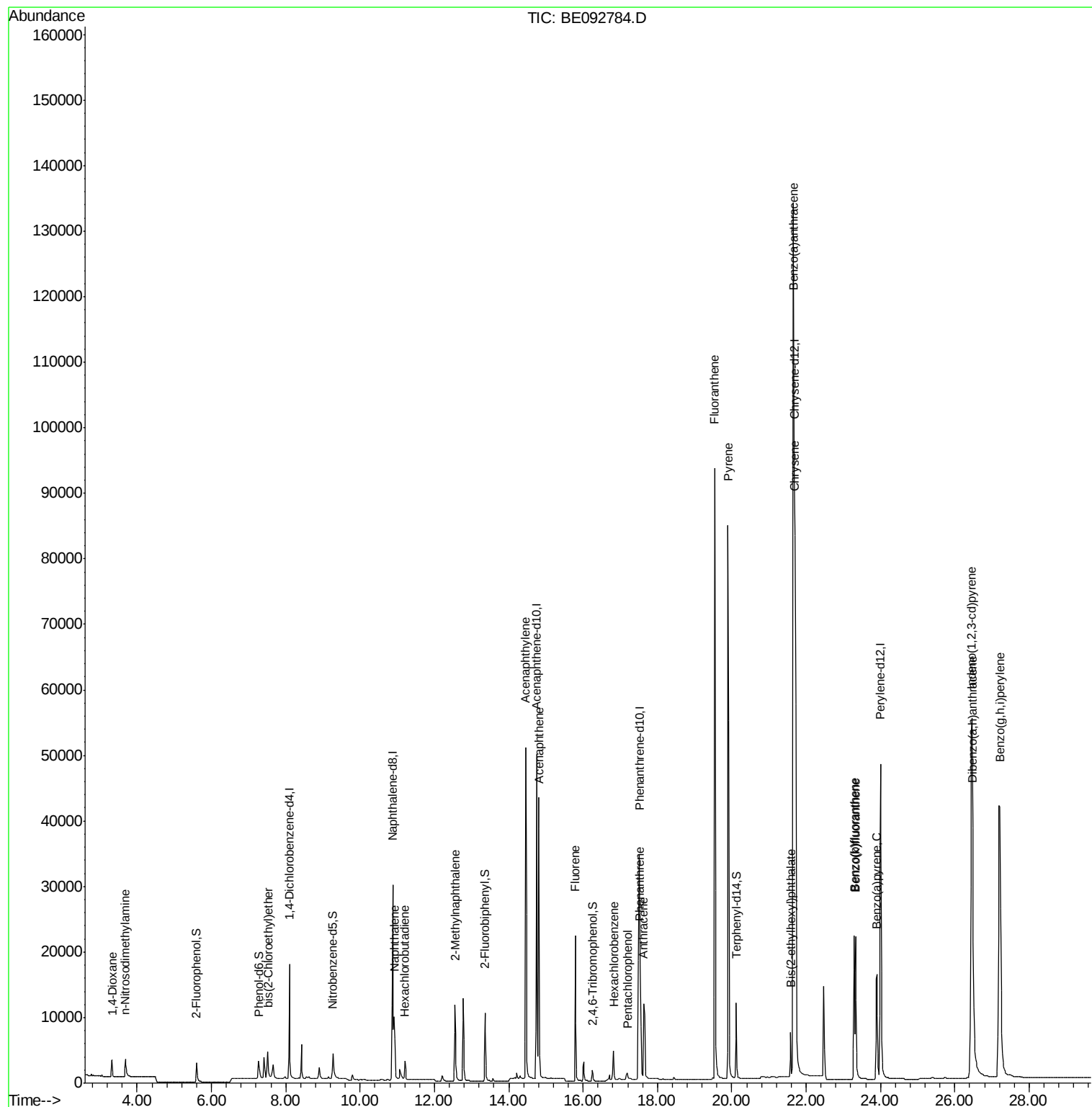
Data Path : Z:\HPCHEM1\BNA E\DATA\BE030617\
Data File : BE092784.D
Acq On : 6 Mar 2017 12:45
Operator : SJ/MA
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

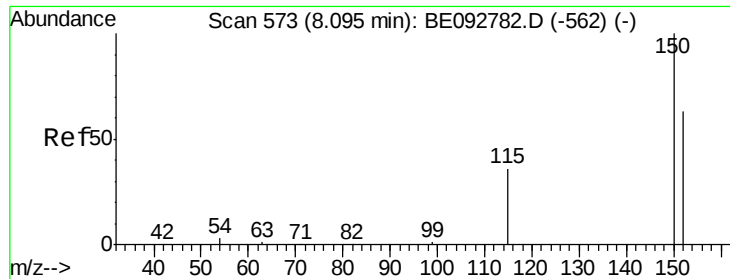
Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

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Quant Time: Mar 06 14:35:59 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE030617.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

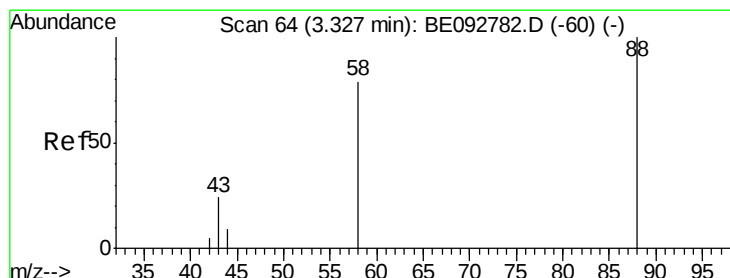
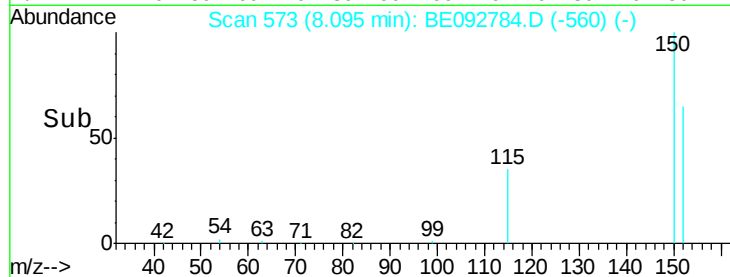
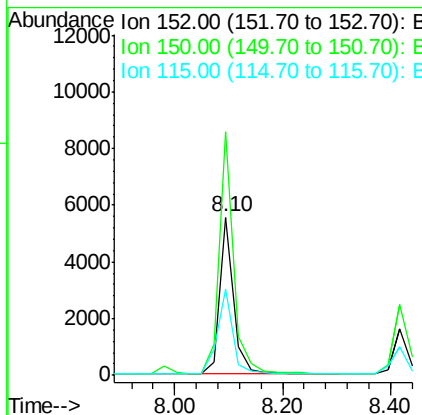
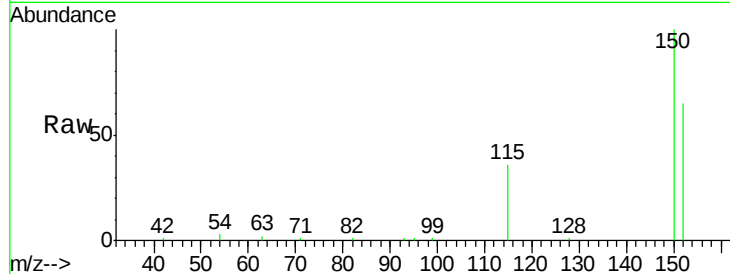
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.10 min Scan# 573
Delta R.T. -0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	106.0	159.0
115	54.8	31.2	46.8

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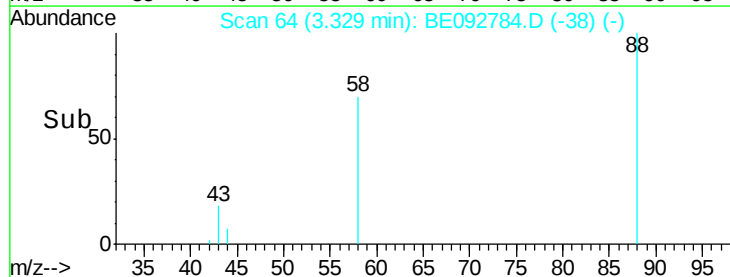
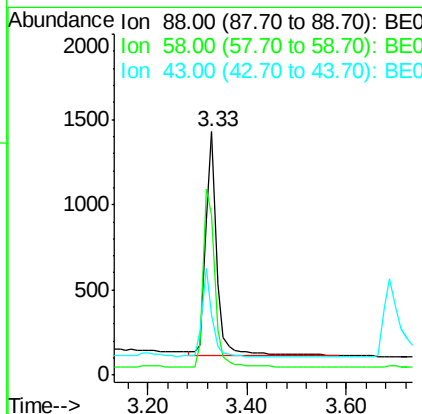
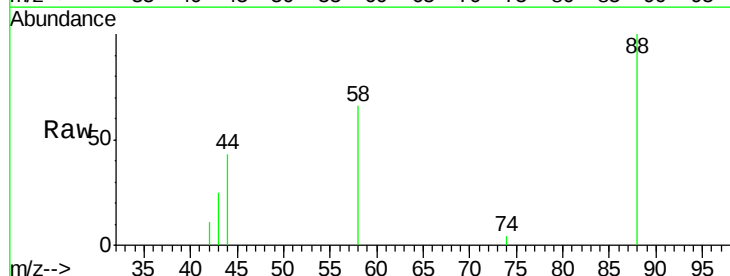
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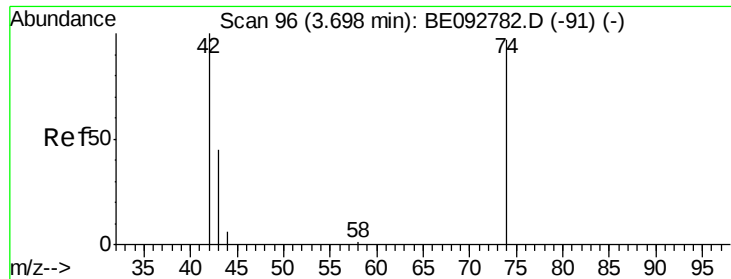


#2

1,4-Dioxane
Concen: 1.44 ng
RT: 3.33 min Scan# 64
Delta R.T. 0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
88	100		
58	81.5	63.6	95.4
43	35.8	28.0	42.0





#3

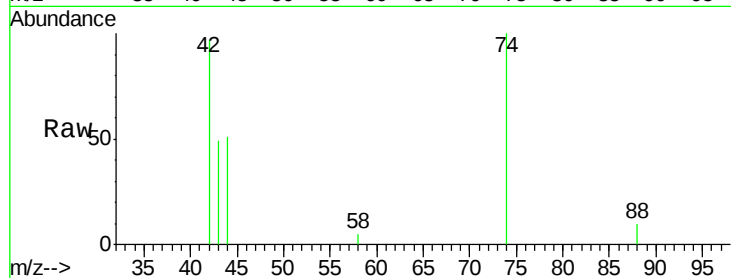
n-Nitrosodimethylamine
Concen: 1.85 ng
RT: 3.69 min Scan# 95
Delta R.T. -0.01 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

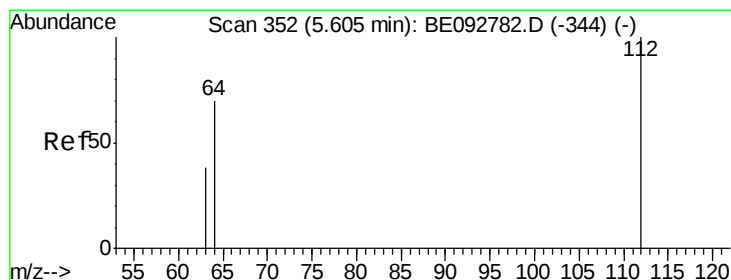
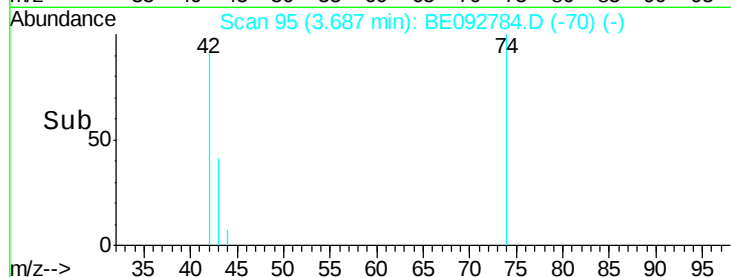
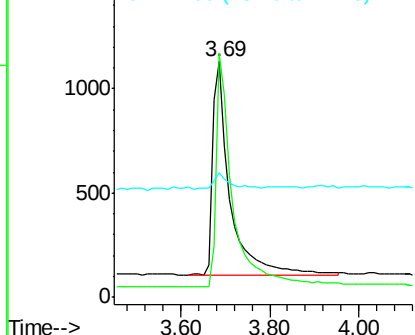
Tot Ion	Ratio	Lower	Upper
42	100		
74	105.5	86.0	129.0
44	6.0	5.1	7.7

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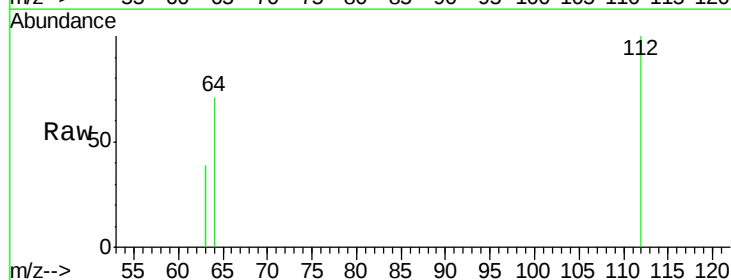
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



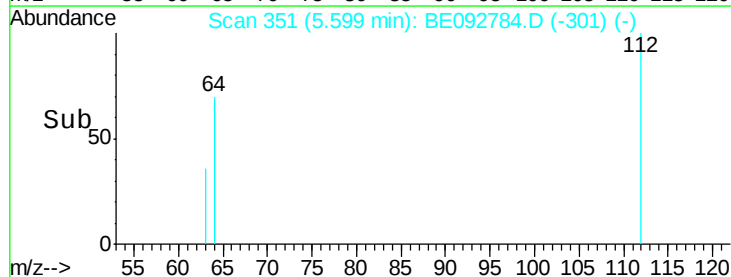
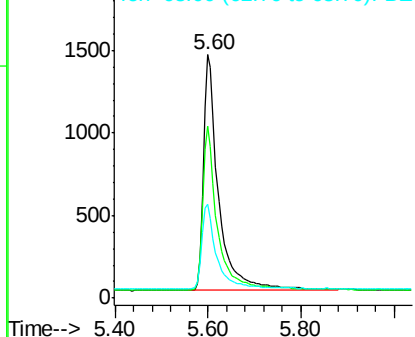
#4

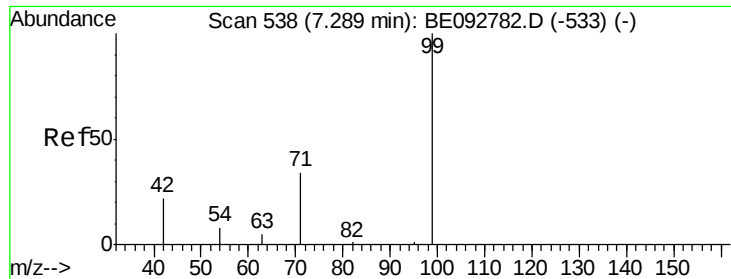
2-Fluorophenol
Concen: 1.70 ng
RT: 5.60 min Scan# 351
Delta R.T. -0.01 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.0	53.5	80.3
63	35.2	27.9	41.9



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.75 ng

RT: 7.27 min Scan# 537

Delta R.T. -0.02 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Instrument :

BNA_E

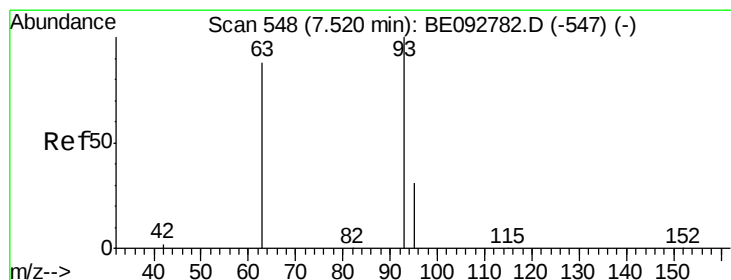
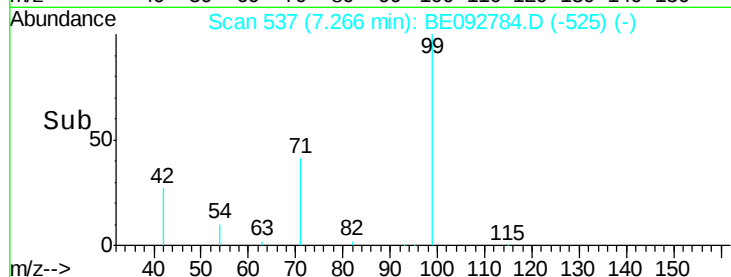
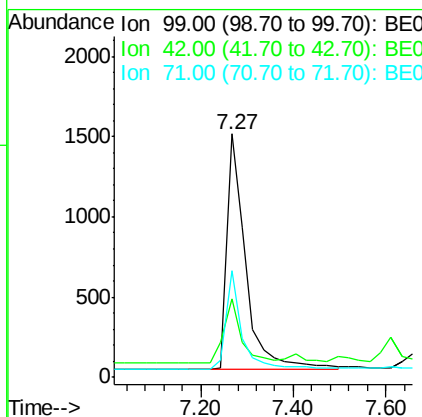
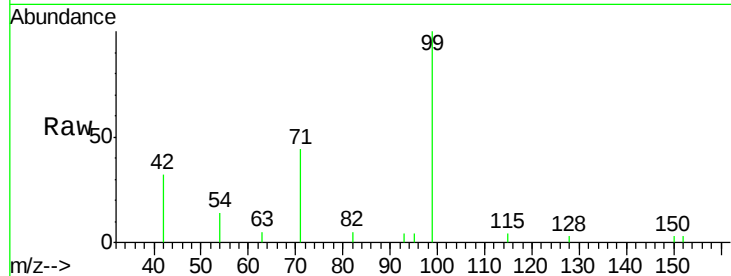
ClientSampleId :

SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
99	100		
42	24.7	16.0	24.0#
71	35.3	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 1.77 ng

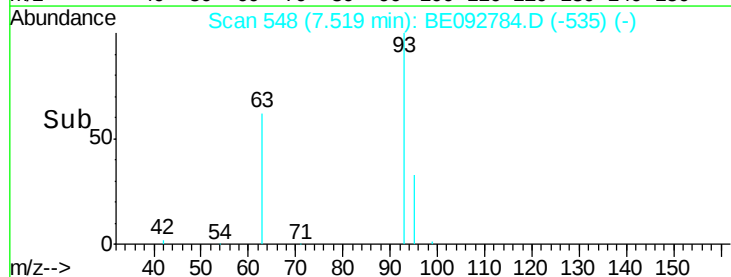
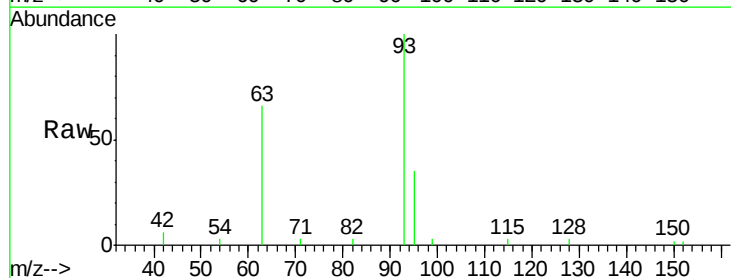
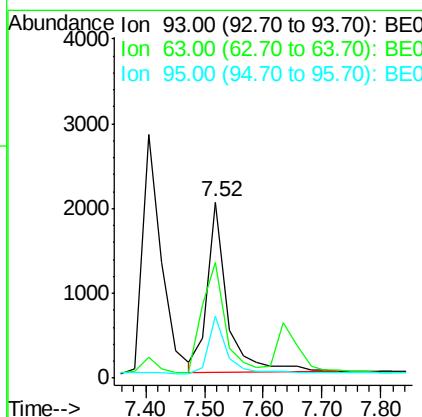
RT: 7.52 min Scan# 548

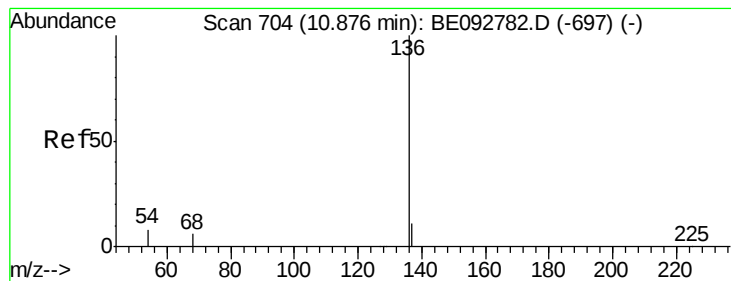
Delta R.T. -0.00 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
93	100		
63	74.6	71.6	107.4
95	31.8	24.0	36.0





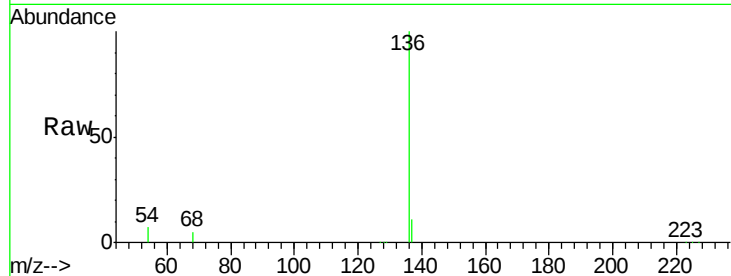
#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.88 min Scan# 704
Delta R.T. -0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

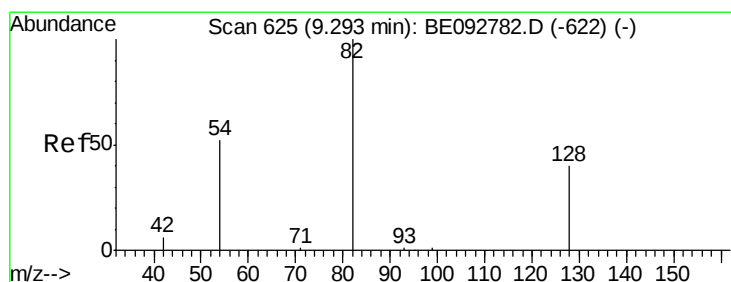
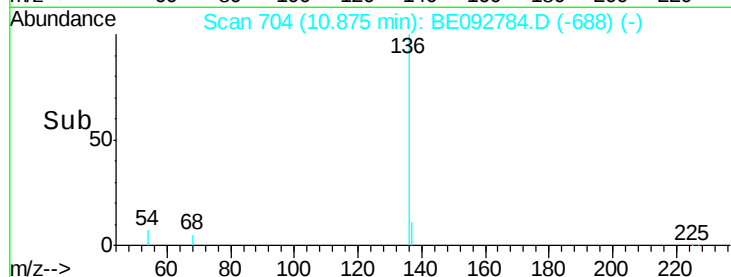
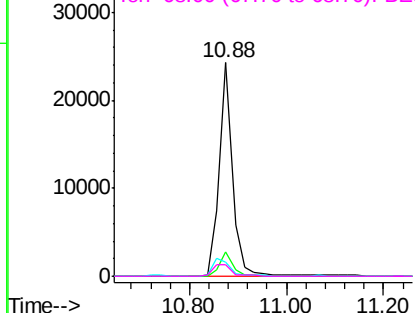
Tot Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.2	12.4
54	6.8	9.6	14.4#
68	5.1	6.7	10.1#

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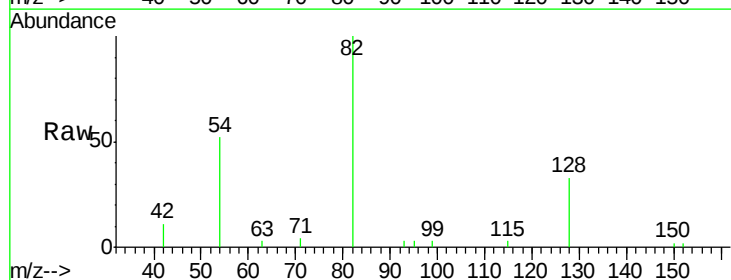


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0

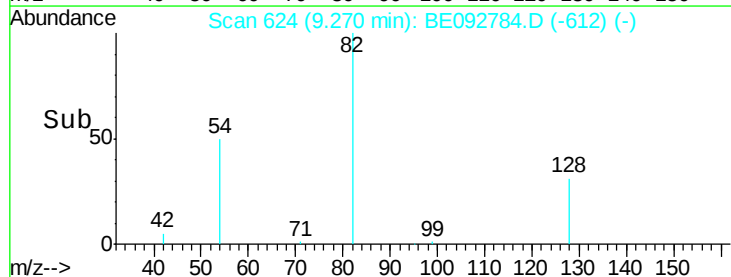
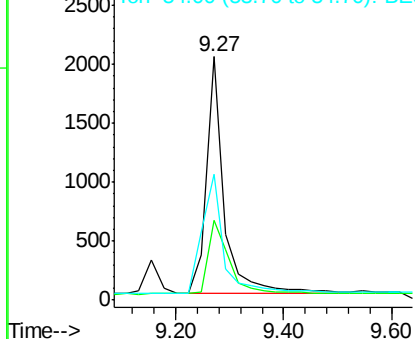


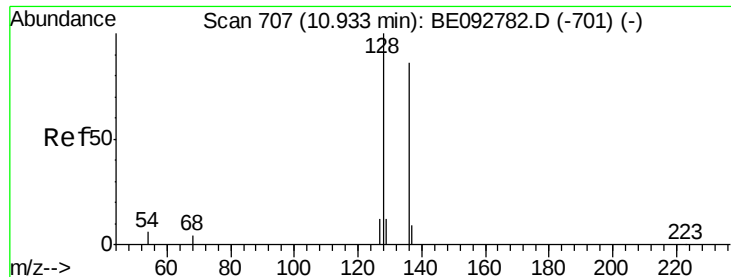
#8
Nitrobenzene-d5
Concen: 1.82 ng
RT: 9.27 min Scan# 624
Delta R.T. -0.02 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
82	100		
128	32.6	39.0	58.4#
54	51.6	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: 1.57 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Instrument :

BNA_E

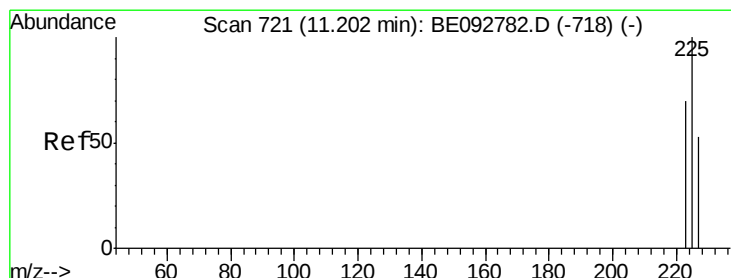
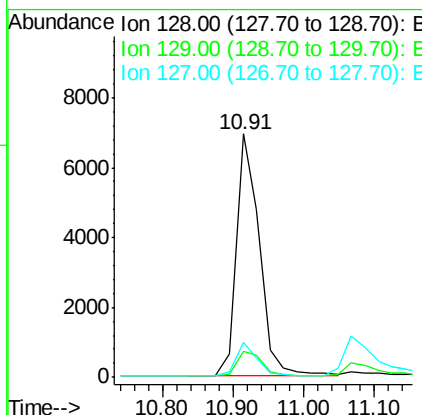
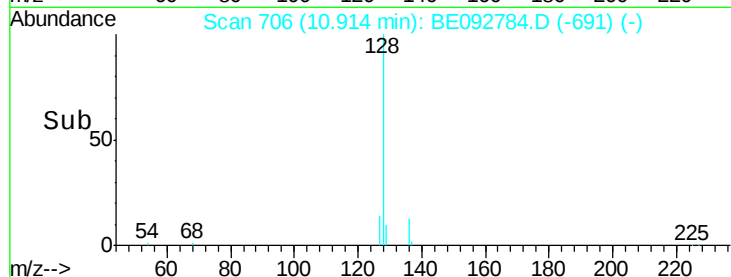
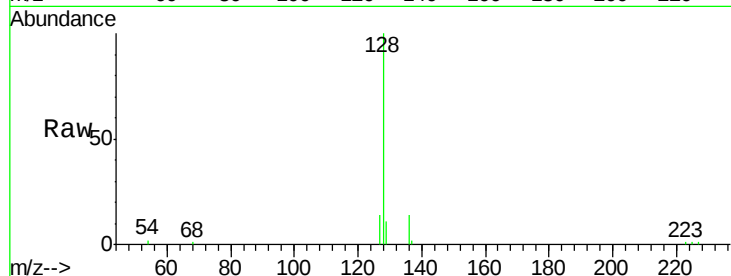
ClientSampleId :

SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.7	11.2	16.8#
127	14.5	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 1.58 ng

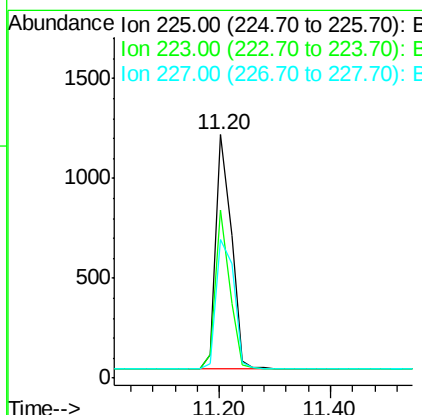
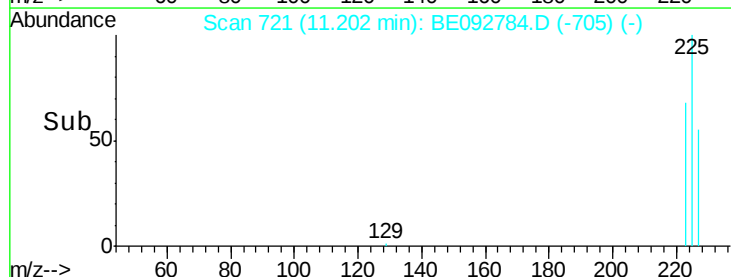
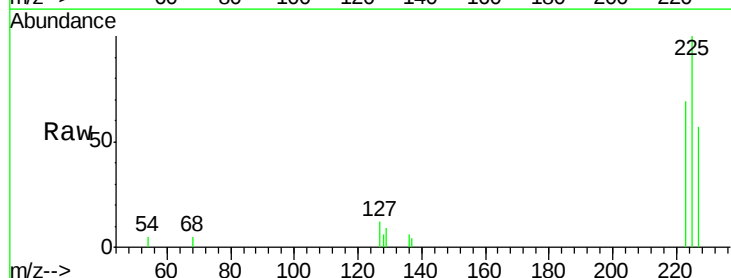
RT: 11.20 min Scan# 721

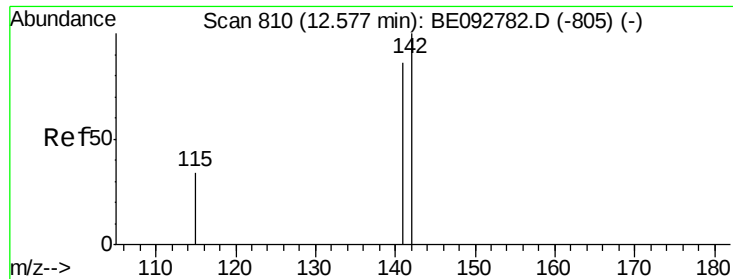
Delta R.T. -0.00 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.6	76.0
227	63.4	51.4	77.0





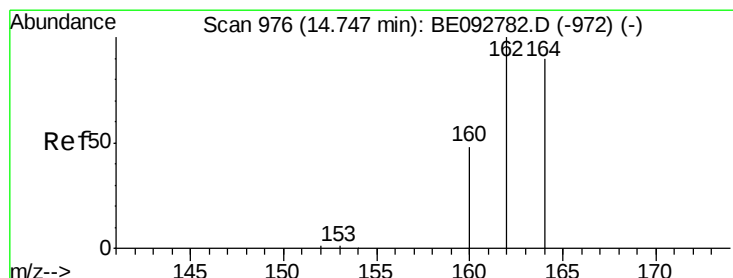
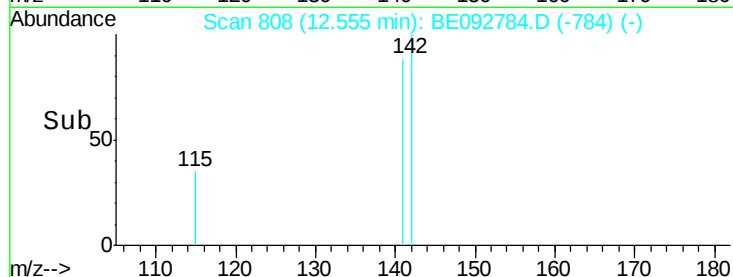
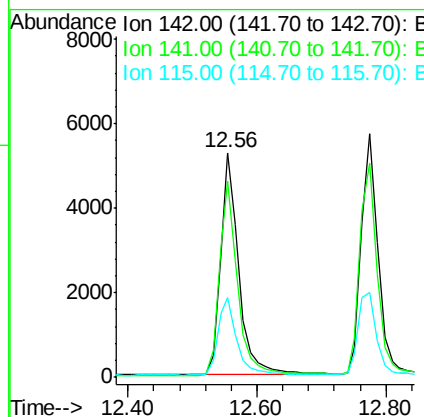
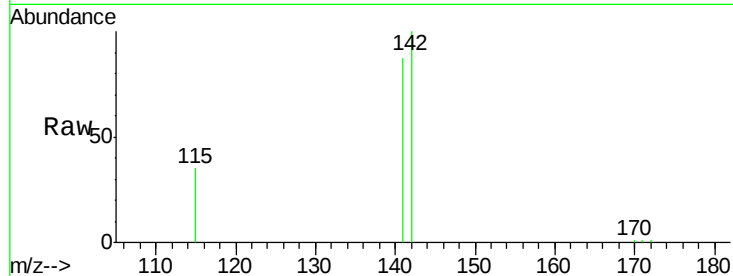
#11
2-Methylnaphthalene
Concen: 1.68 ng
RT: 12.56 min Scan# 808
Delta R.T. -0.02 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.2	73.7	110.5
115	35.3	34.0	51.0

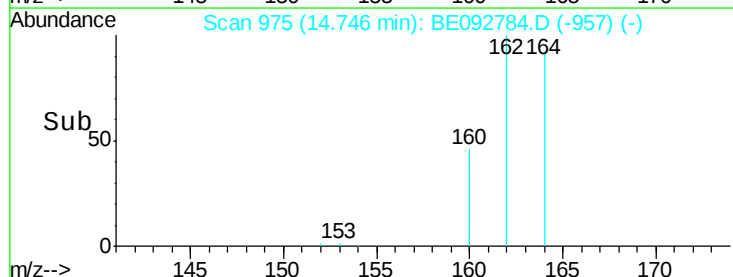
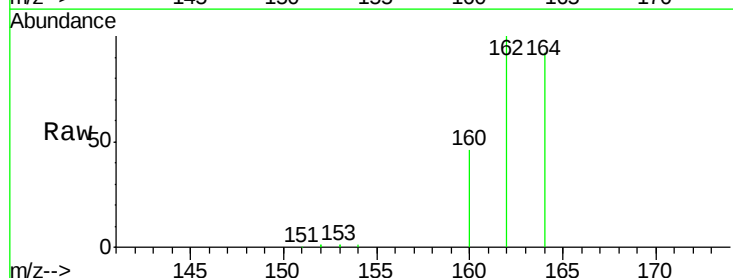
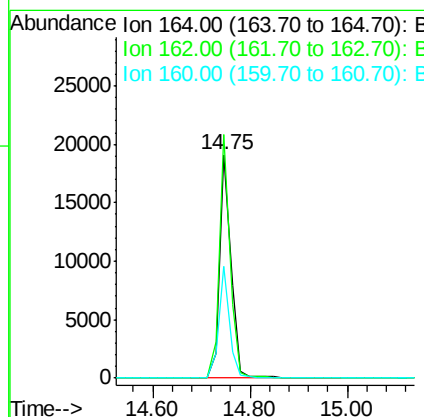
Manual Integrations
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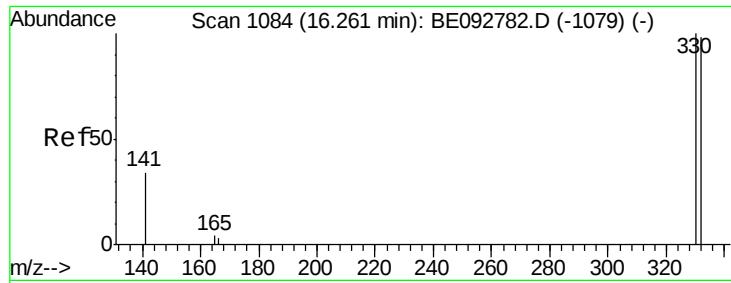
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.75 min Scan# 975
Delta R.T. -0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	108.8	71.4	107.0#
160	50.2	27.4	41.2#





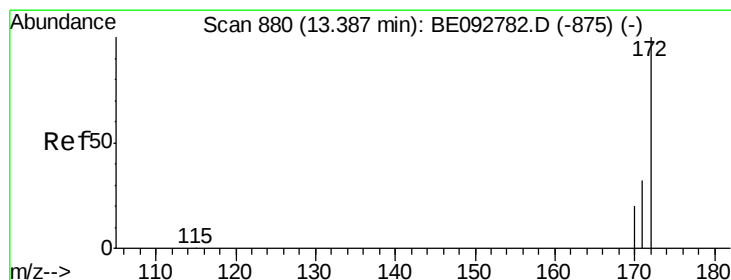
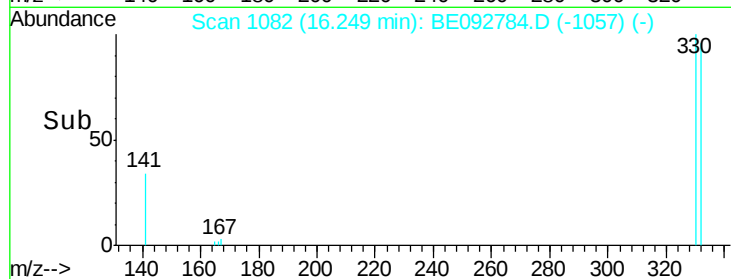
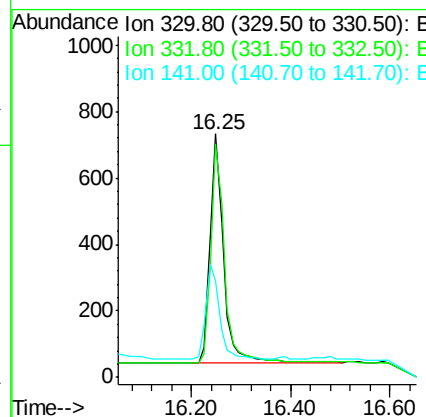
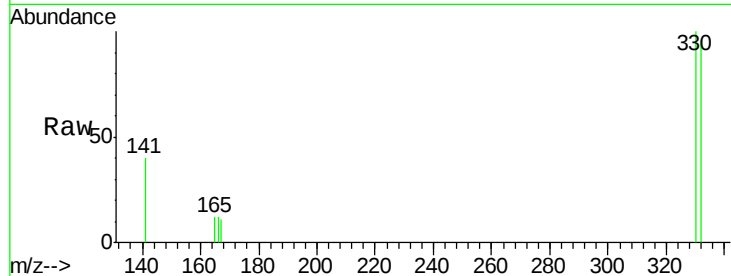
#13
 2,4,6-Tribromophenol
 Concen: 2.04 ng
 RT: 16.25 min Scan# 1082
 Delta R.T. -0.01 min
 Lab File: BE092784.D
 Acq: 6 Mar 2017 12:45

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.4	75.4	113.0
141	41.6	31.0	46.6

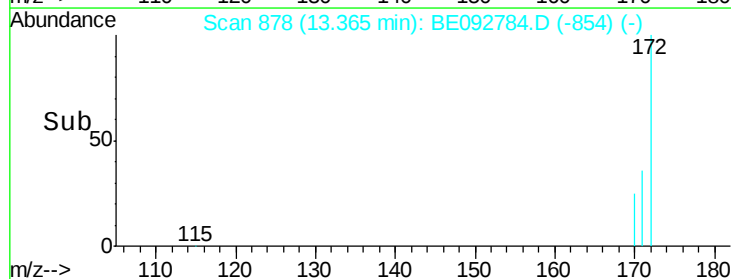
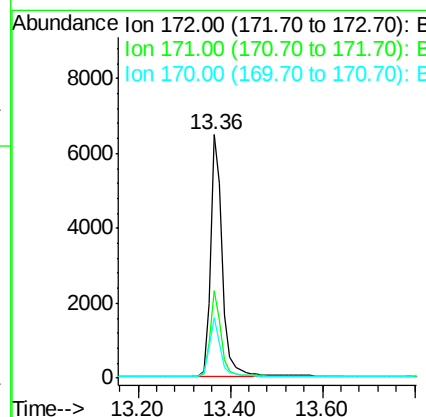
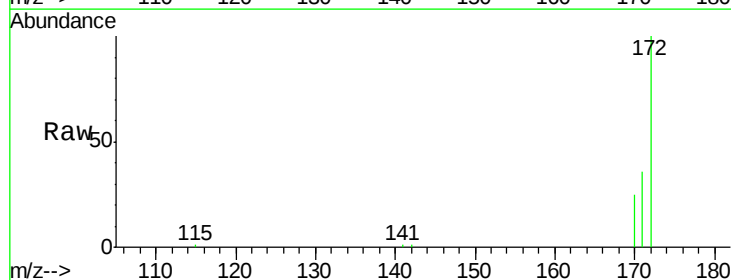
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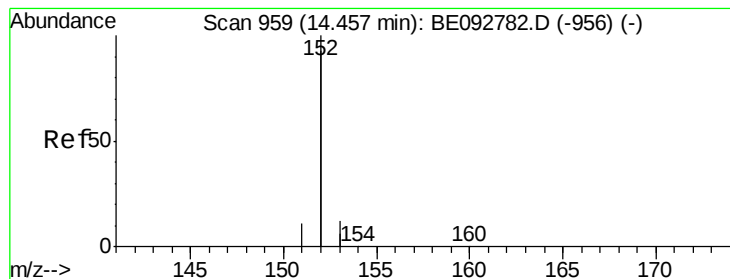
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#14
 2-Fluorobiphenyl
 Concen: 1.57 ng
 RT: 13.36 min Scan# 878
 Delta R.T. -0.02 min
 Lab File: BE092784.D
 Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	30.1	45.1
170	25.1	21.8	32.6





#15

Acenaphthylene

Concen: 1.62 ng

RT: 14.46 min Scan# 958

Delta R.T. -0.00 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Instrument :

BNA_E

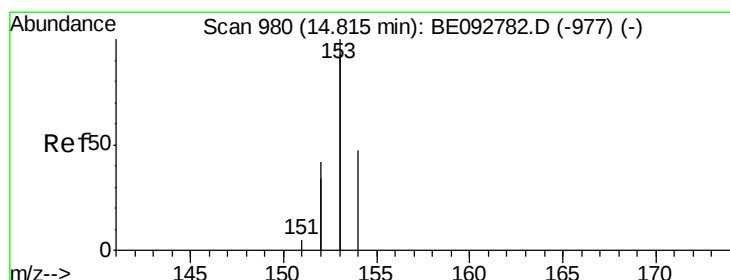
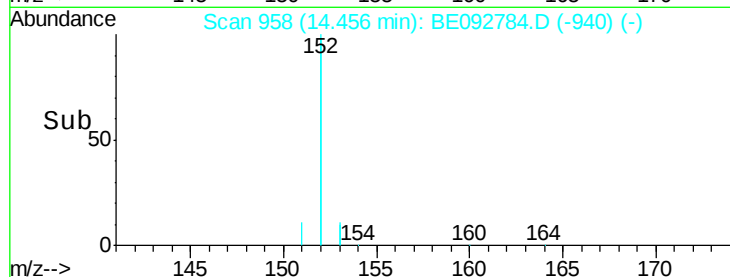
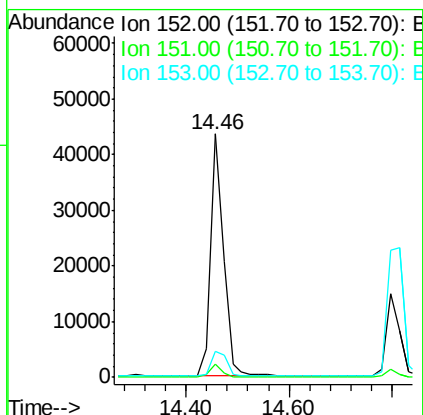
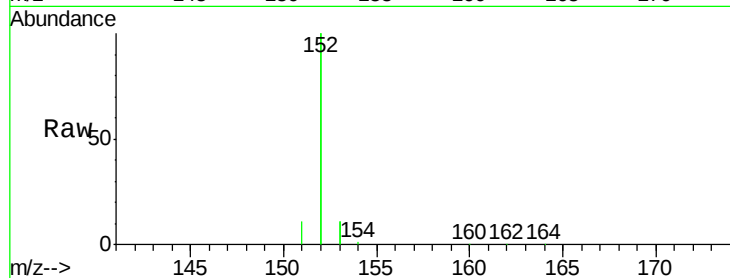
ClientSampleId :

SSTDICC1.6

Tot Ion:	152	Resp:	74966
Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	12.8	10.4	15.6

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#16

Acenaphthene

Concen: 1.61 ng

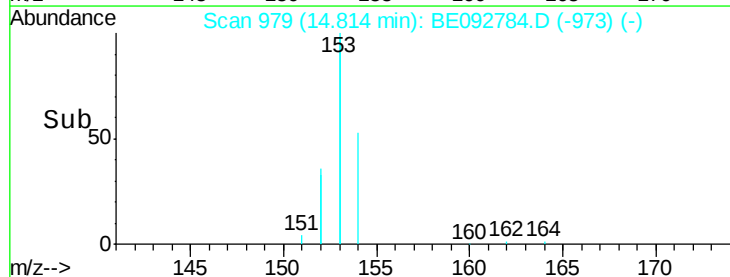
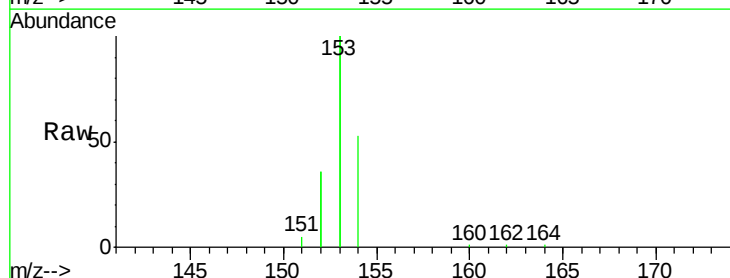
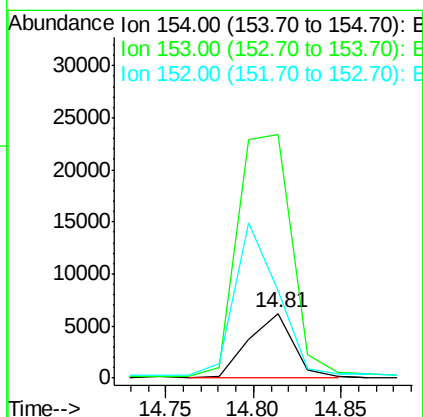
RT: 14.81 min Scan# 979

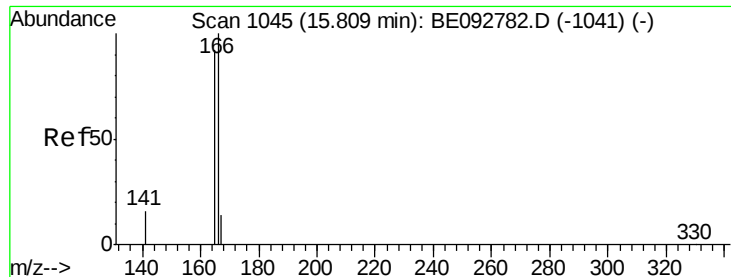
Delta R.T. -0.00 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Tgt Ion:	154	Resp:	10837
Ion	Ratio	Lower	Upper
154	100		
153	461.9	350.8	526.2
152	232.4	171.1	256.7





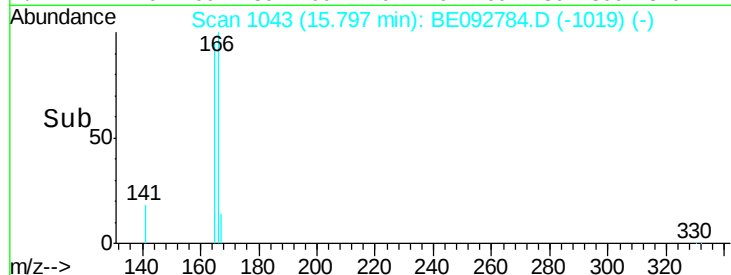
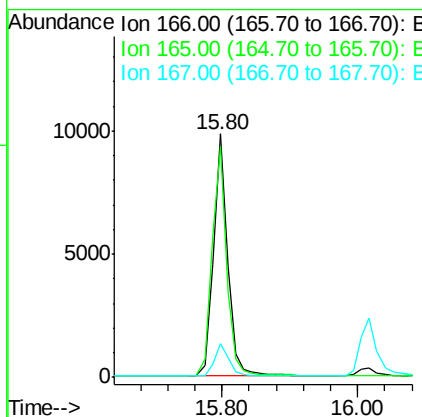
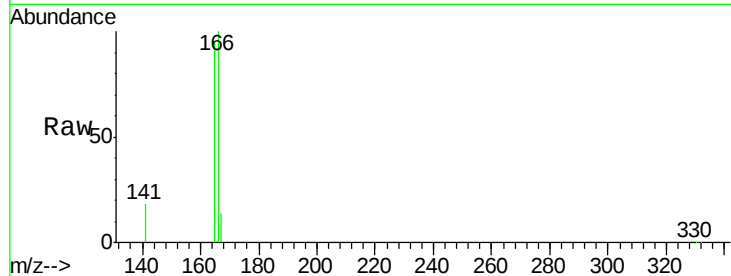
#17
Fluorene
Concen: 1.70 ng
RT: 15.80 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.2	117.4
167	13.3	11.0	16.4

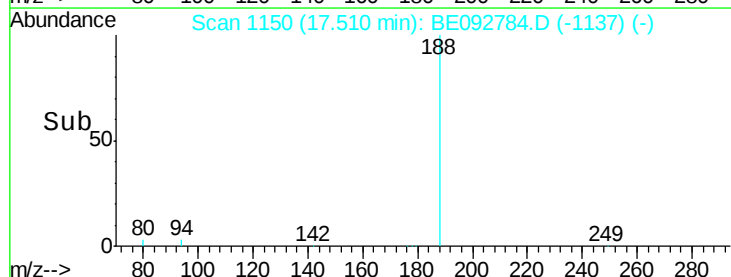
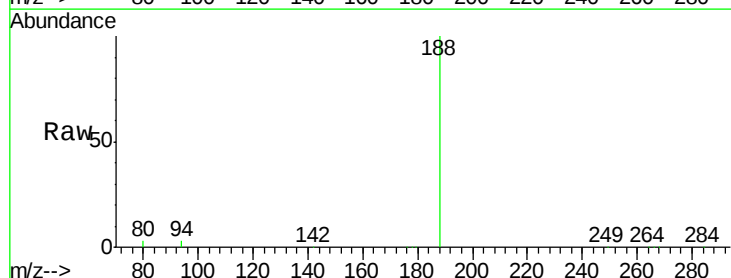
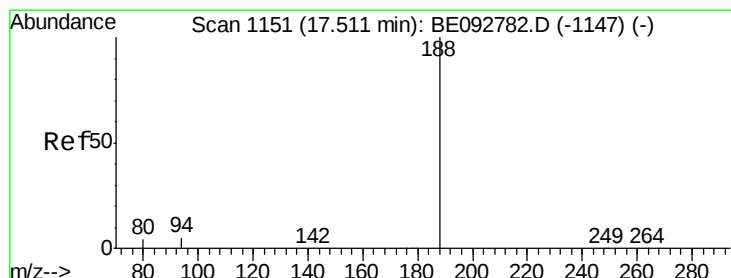
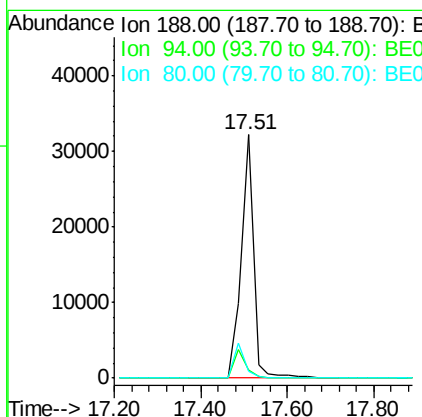
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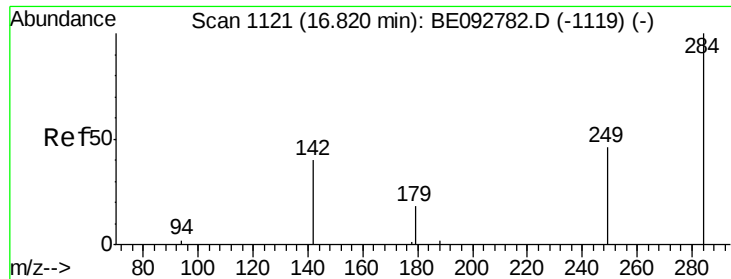
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.51 min Scan# 1150
Delta R.T. -0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
188	100		
94	3.4	3.2	4.8
80	2.8	2.6	3.8





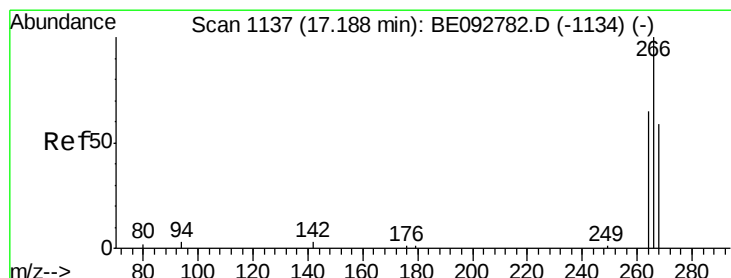
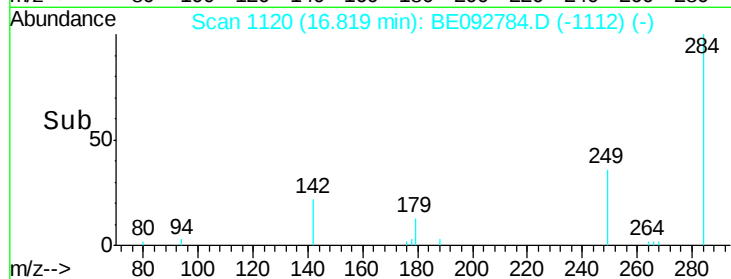
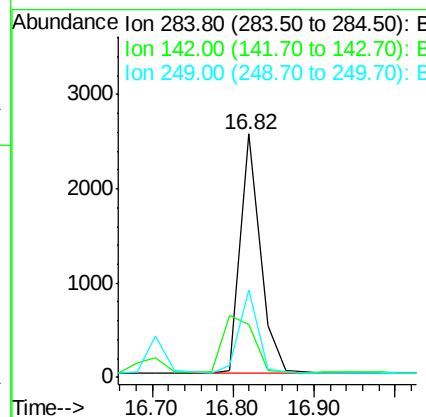
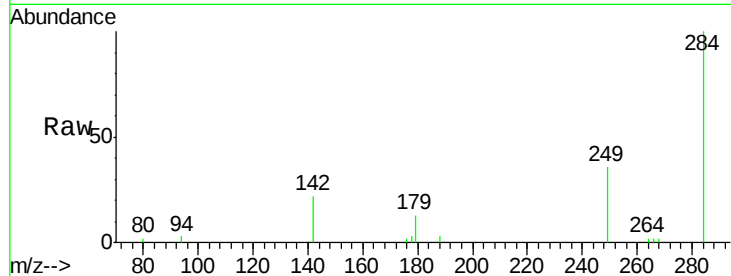
#19
Hexachlorobenzene
Concen: 1.78 ng
RT: 16.82 min Scan# 1120
Delta R.T. -0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	32.1	27.9	41.9

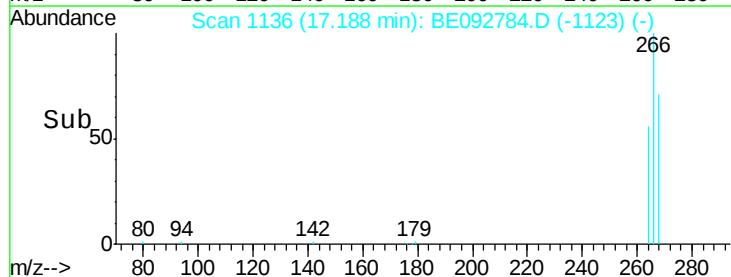
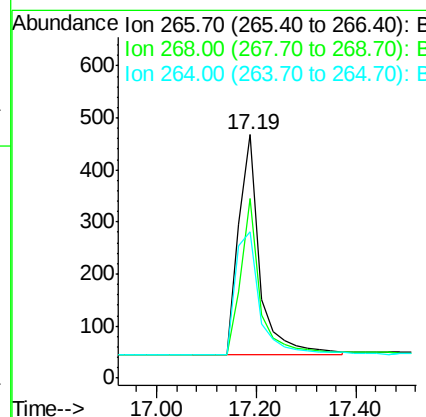
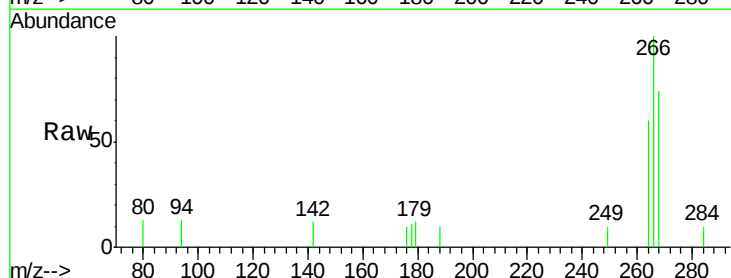
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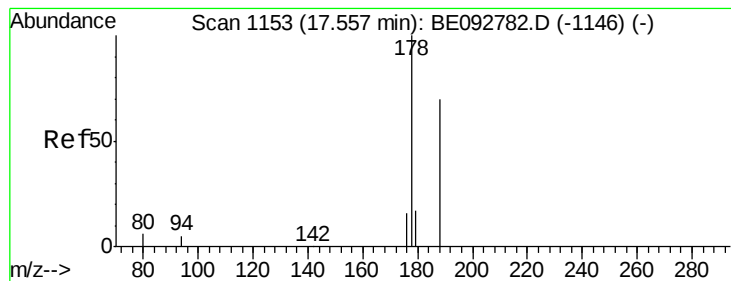
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#20
Pentachlorophenol
Concen: 2.39 ng
RT: 17.19 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
266	100		
268	73.9	62.5	93.7
264	59.8	57.2	85.8





#21

Phenanthrene

Concen: 1.63 ng

RT: 17.53 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Instrument :

BNA_E

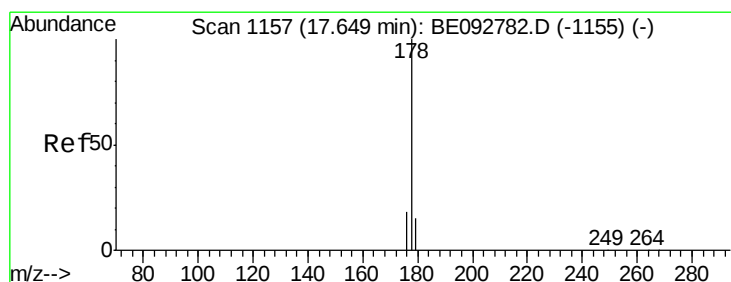
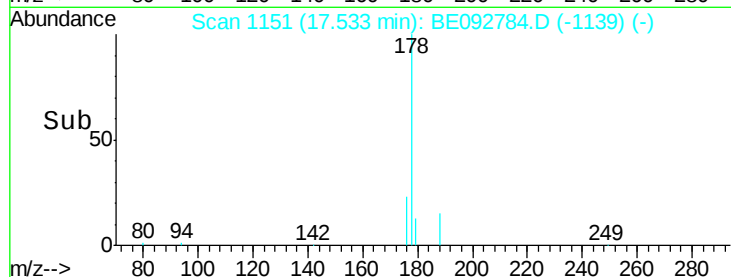
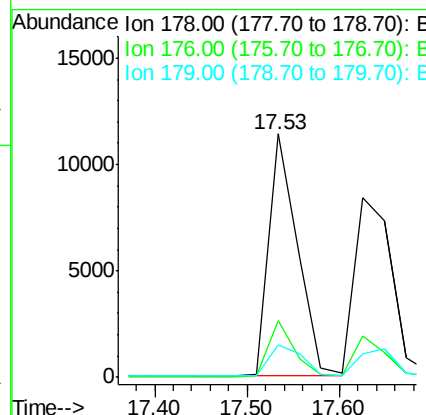
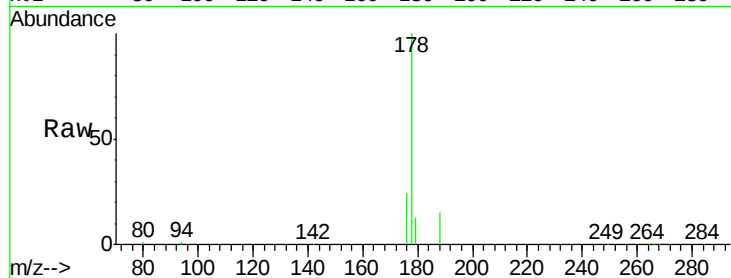
ClientSampleId :

SSTDICC1.6

Tot Ion:	178	Resp:	24255
Ion Ratio	Lower	Upper	
178	100		
176	20.5	15.8	23.8
179	15.0	16.0	24.0#

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#22

Anthracene

Concen: 1.76 ng m

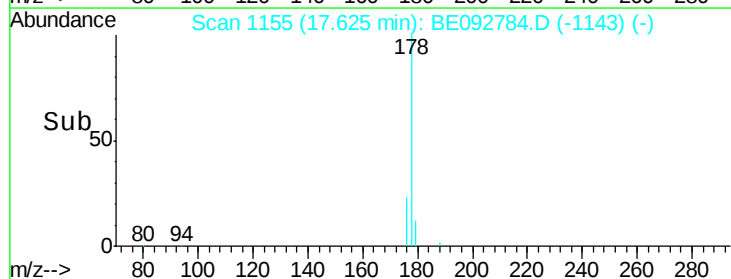
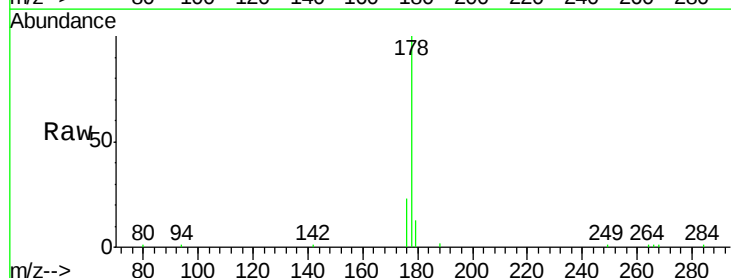
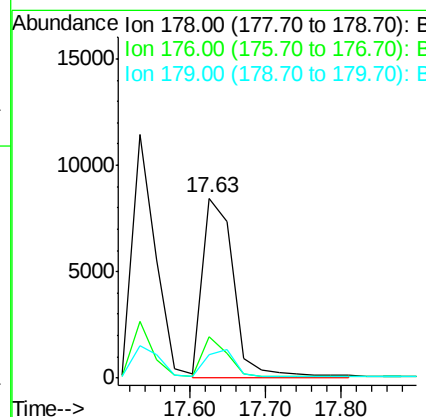
RT: 17.63 min Scan# 1155

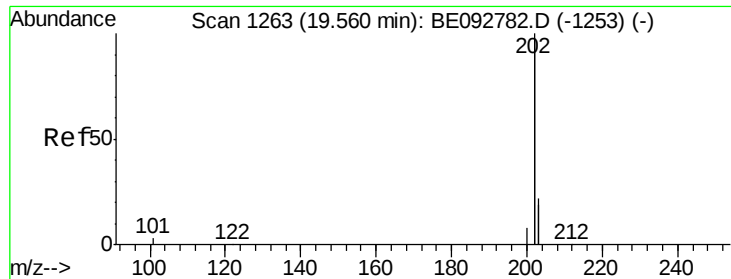
Delta R.T. -0.02 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Tgt Ion:	178	Resp:	24168
Ion Ratio	Lower	Upper	
178	100		
176	20.6	15.0	22.4
179	15.1	12.2	18.2





#23

Fluoranthene

Concen: 1.86 ng

RT: 19.54 min Scan# 1261

Delta R.T. -0.02 min

Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Instrument :

BNA_E

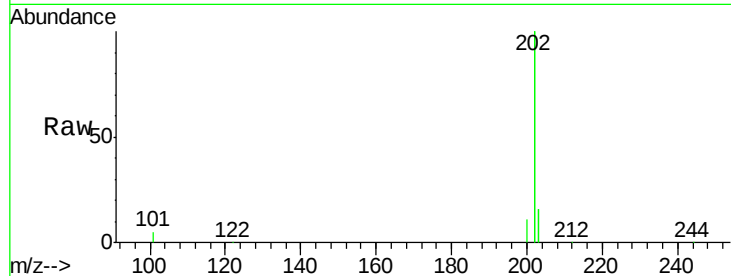
ClientSampled :

SSTDICC1.6

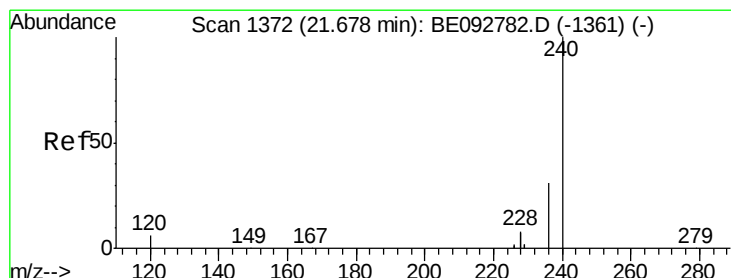
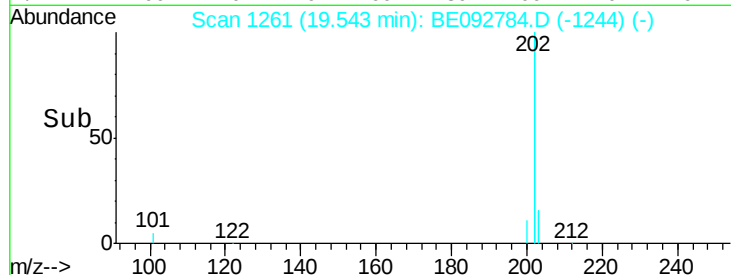
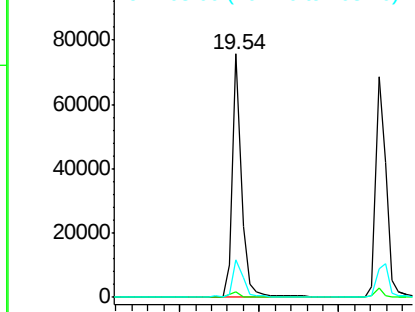
Tot Ion:	202	Resp:	118743
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.4
203	17.4	13.7	20.5

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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: 21.68 min Scan# 1371

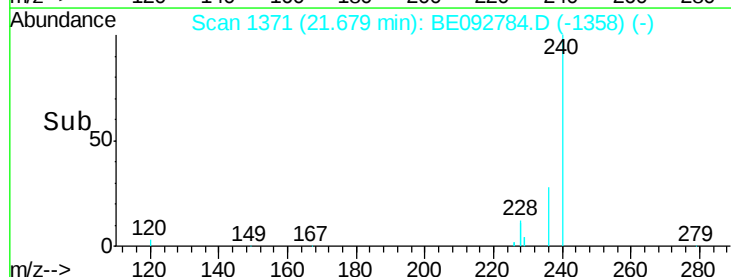
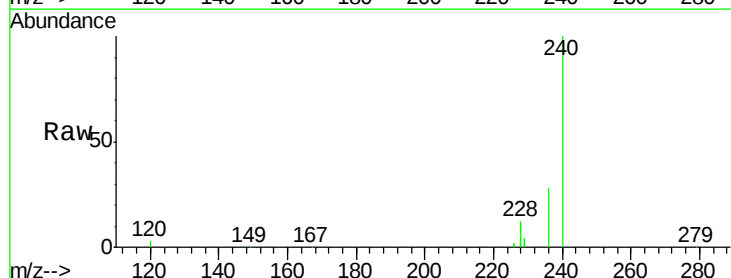
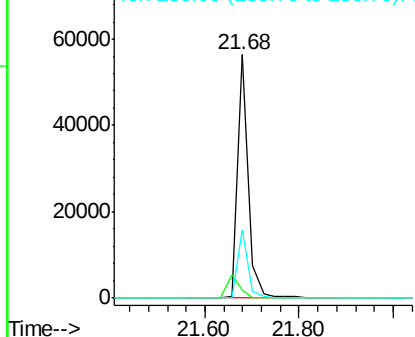
Delta R.T. 0.00 min

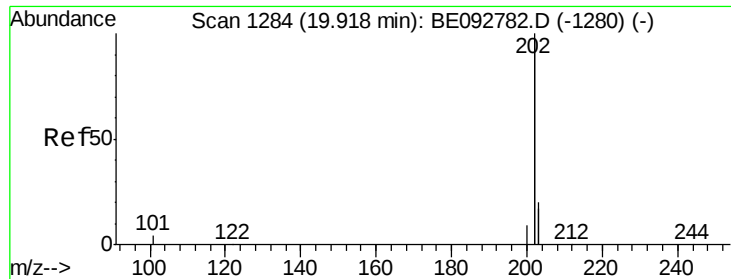
Lab File: BE092784.D

Acq: 6 Mar 2017 12:45

Tgt Ion:	240	Resp:	90431
Ion Ratio	Lower	Upper	
240	100		
120	3.2	2.6	4.0
236	28.3	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





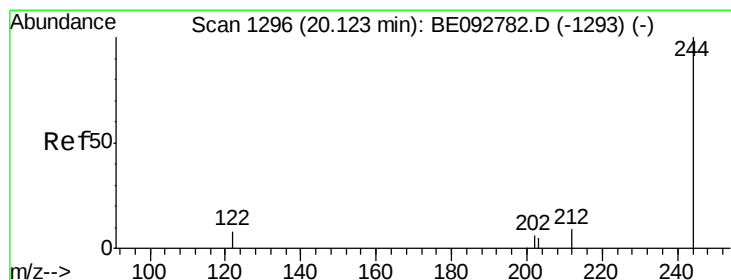
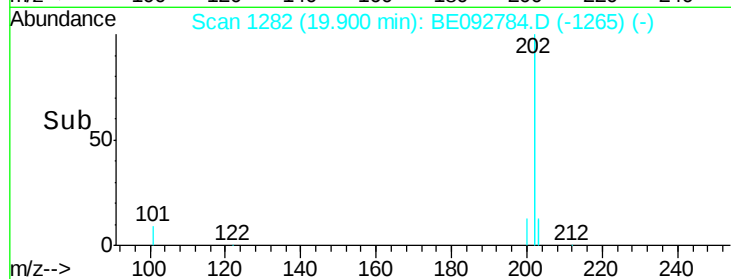
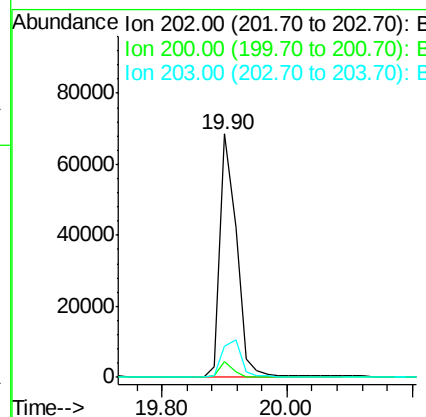
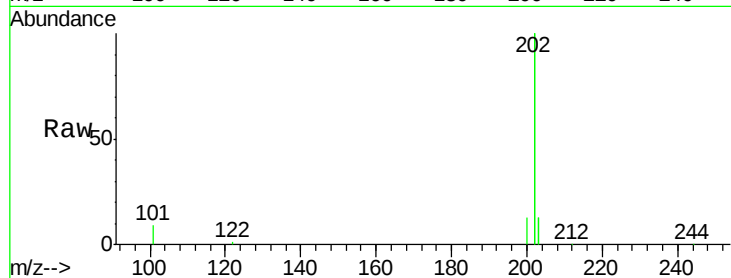
#25
Pvrene
Concen: 1.45 ng
RT: 19.90 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	5.5	4.2	6.4
203	17.5	13.9	20.9

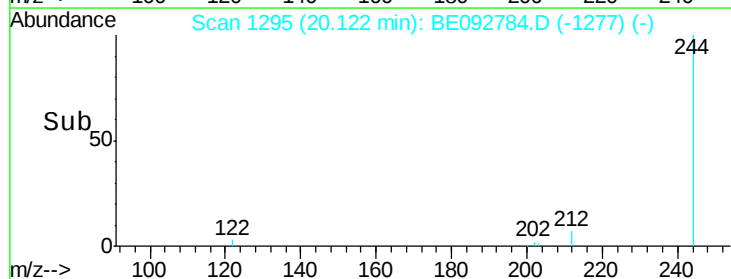
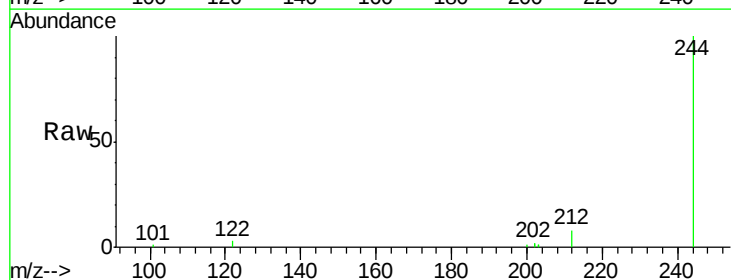
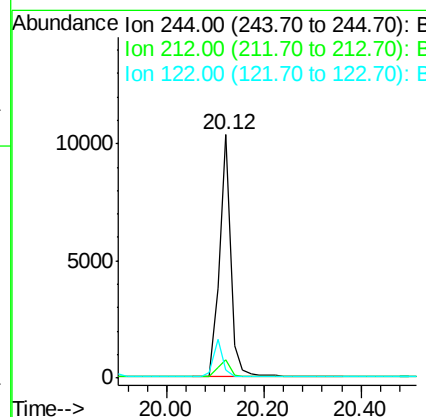
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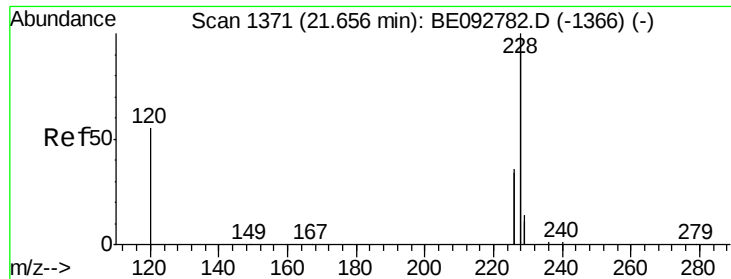
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#26
Terphenyl-d14
Concen: 1.45 ng
RT: 20.12 min Scan# 1295
Delta R.T. -0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.7	6.7	10.1
122	3.5	3.6	5.4#





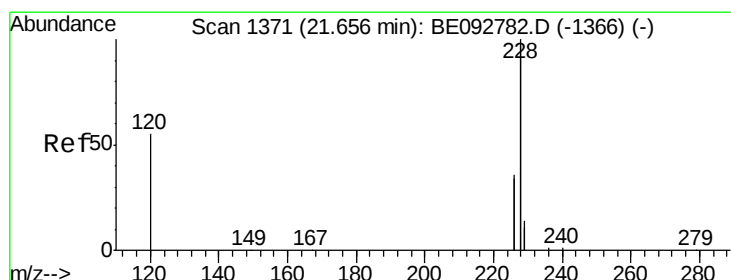
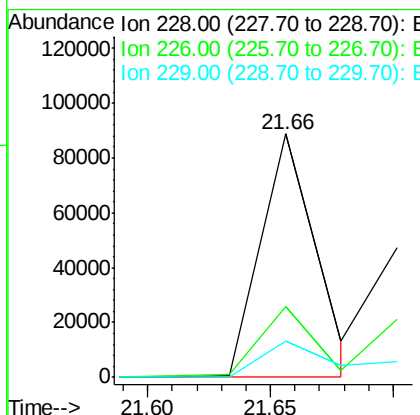
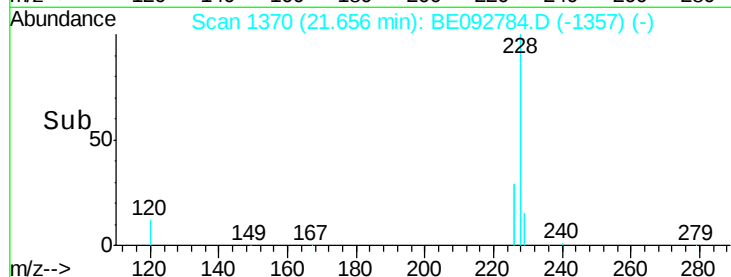
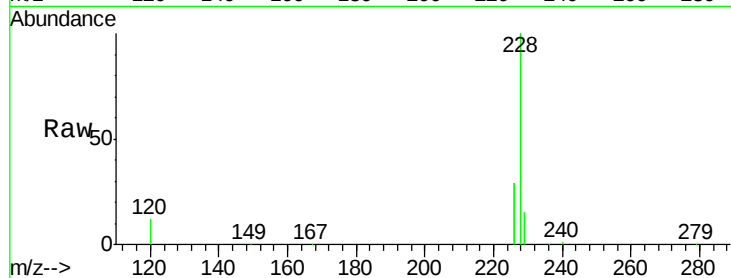
#27
Benzo(a)anthracene
Concen: 1.59 ng m
RT: 21.66 min Scan# 1370
Delta R.T. 0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.6	35.4
229	15.0	13.3	19.9

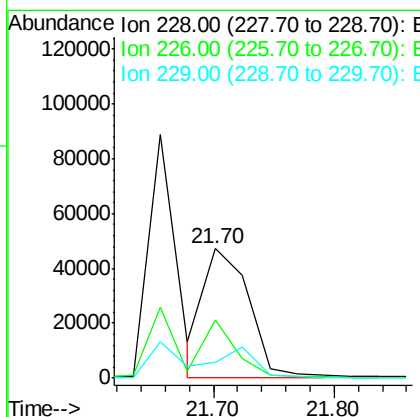
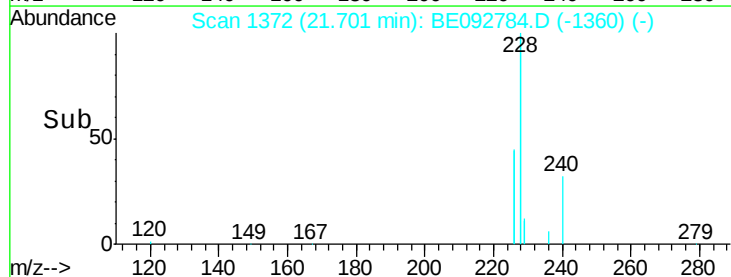
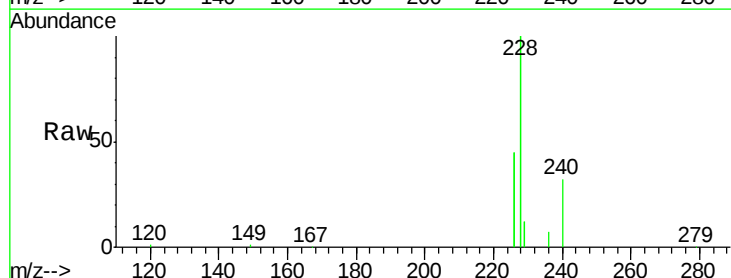
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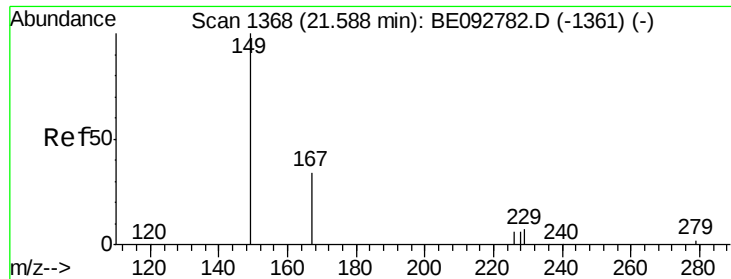
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#28
Chrysene
Concen: 1.18 ng m
RT: 21.70 min Scan# 1372
Delta R.T. -0.02 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	44.9	36.3	54.5
229	12.0	10.6	16.0





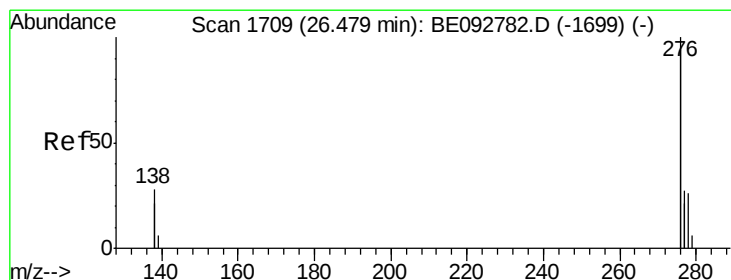
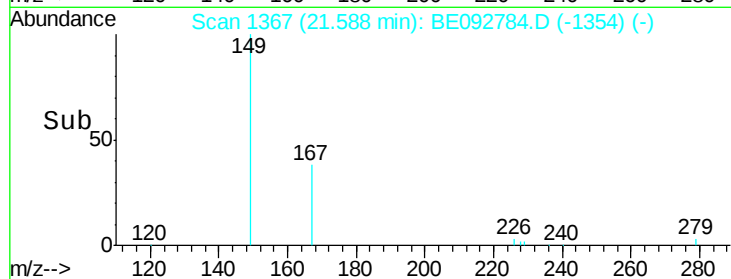
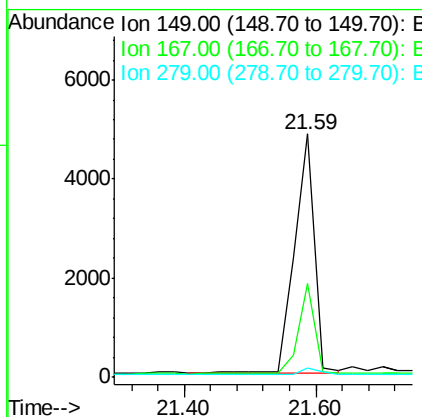
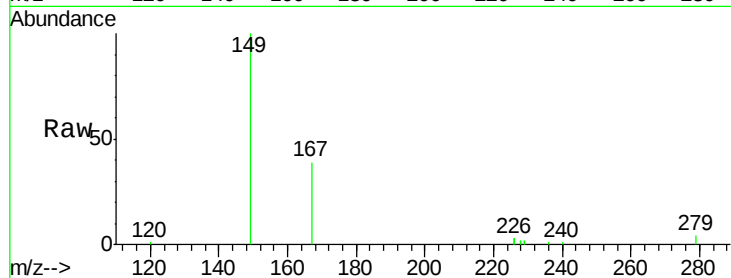
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.82 ng
 RT: 21.59 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: BE092784.D
 Acq: 6 Mar 2017 12:45

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
149	100		
167	31.6	16.0	24.0#
279	2.9	16.0	24.0#

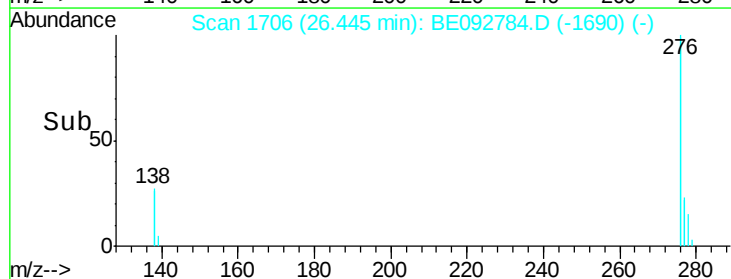
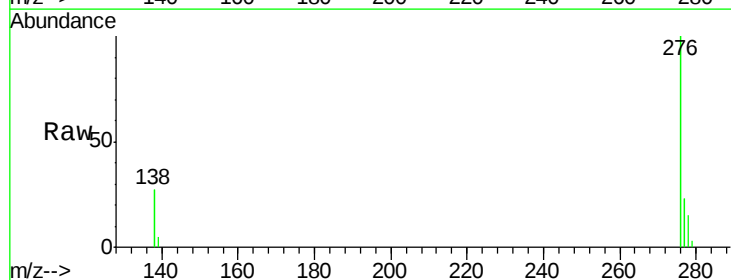
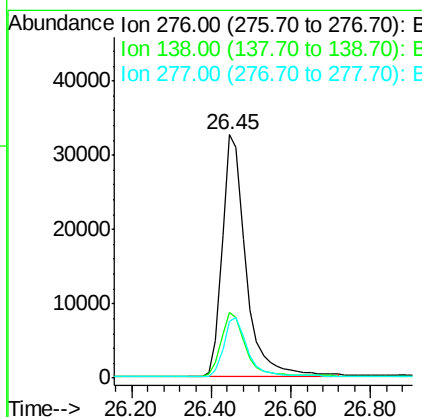
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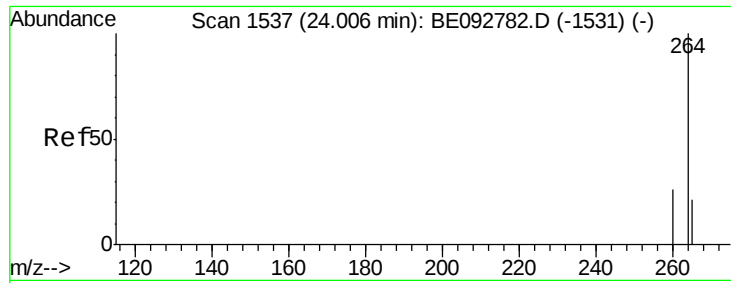
mohammad
 3/7/2017 4:22:43 PM



#30
 Indeno(1,2,3-cd)pyrene
 Concen: 1.15 ng
 RT: 26.45 min Scan# 1706
 Delta R.T. -0.03 min
 Lab File: BE092784.D
 Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.0	20.3	30.5
277	24.7	19.7	29.5





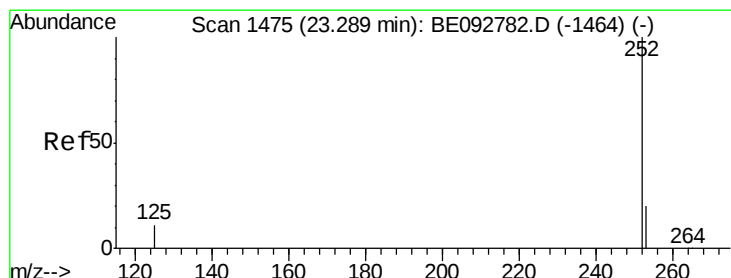
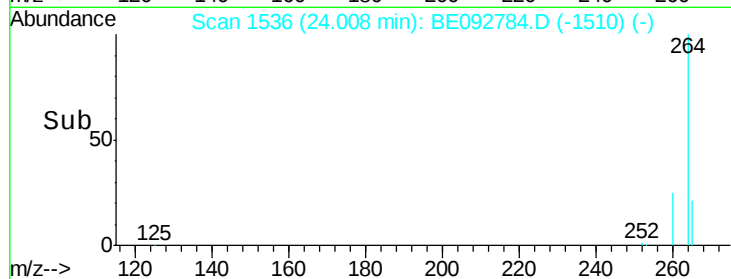
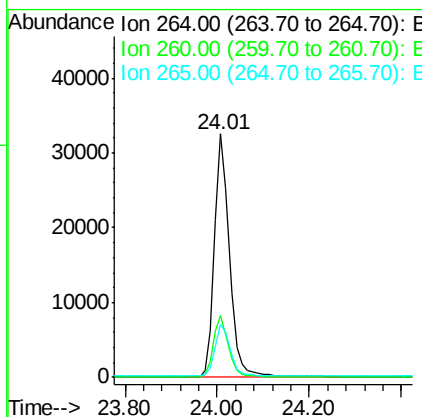
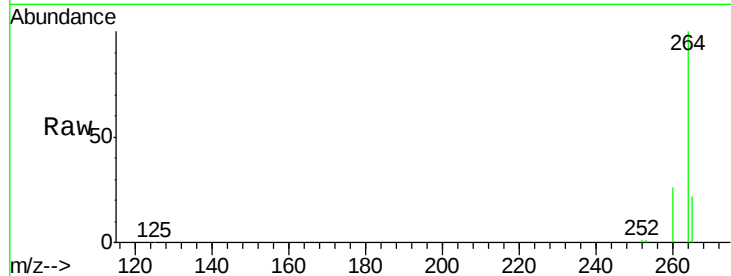
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.01 min Scan# 1536
Delta R.T. 0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.5	20.1	30.1
265	21.7	17.9	26.9

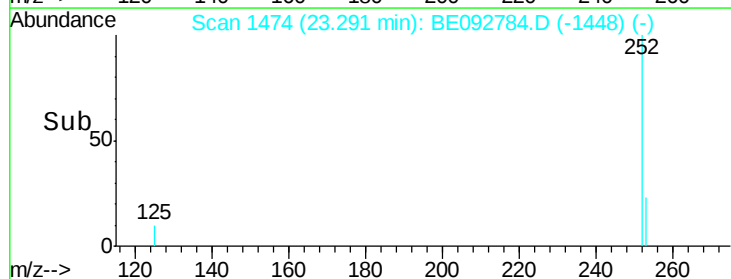
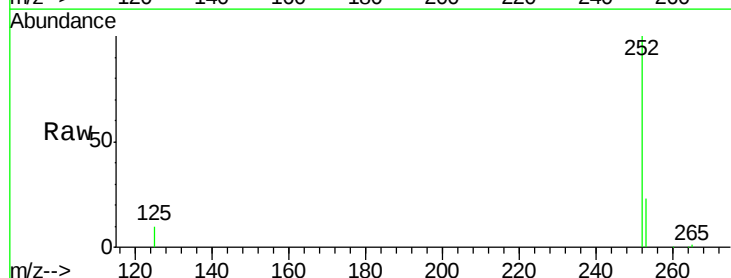
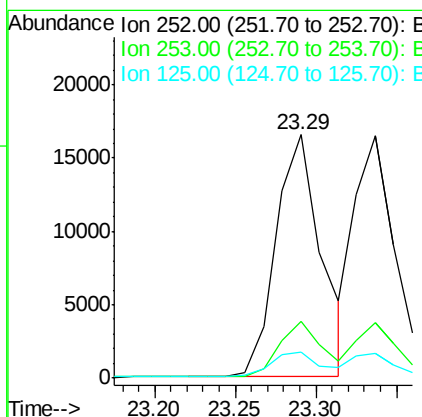
Manual Integrations
APPROVED

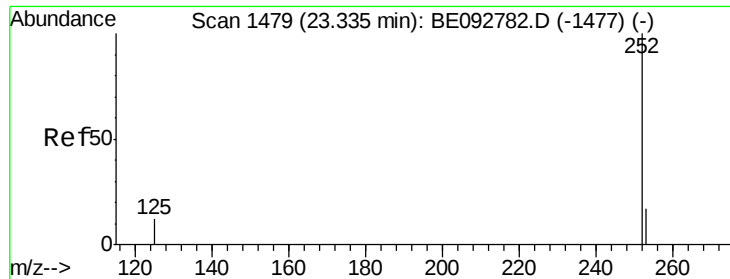
mohammad
3/7/2017 4:22:43 PM



#32
Benzo(b)fluoranthene
Concen: 1.54 ng
RT: 23.29 min Scan# 1474
Delta R.T. 0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.7	28.1
125	10.4	10.5	15.7#





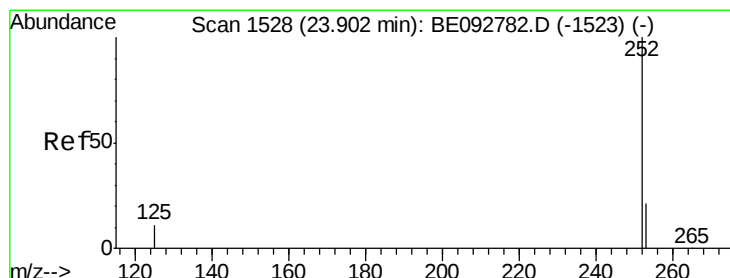
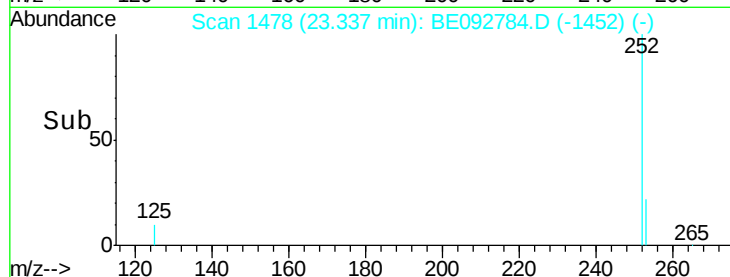
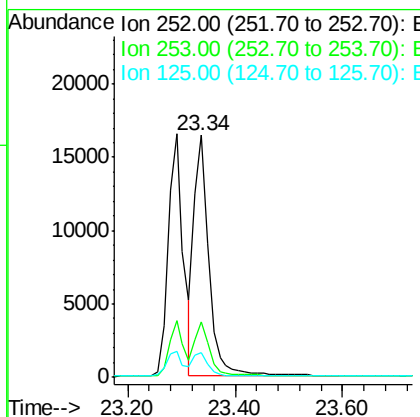
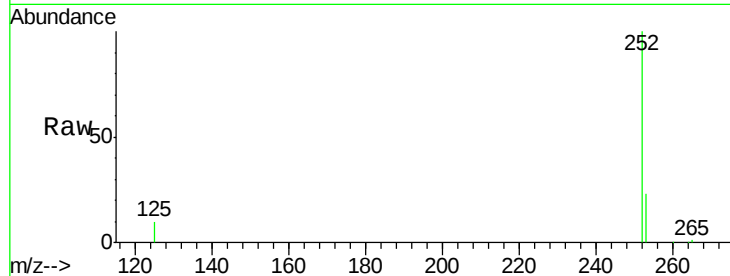
#33
Benzo(k)fluoranthene
Concen: 1.41 ng
RT: 23.34 min Scan# 1478
Delta R.T. 0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	20.3	30.5
125	10.4	9.6	14.4

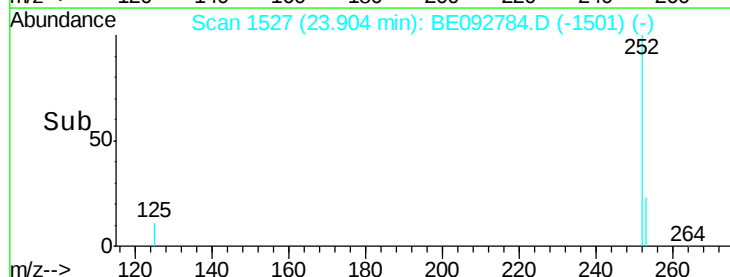
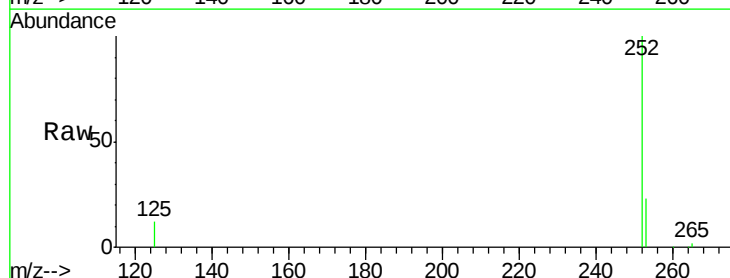
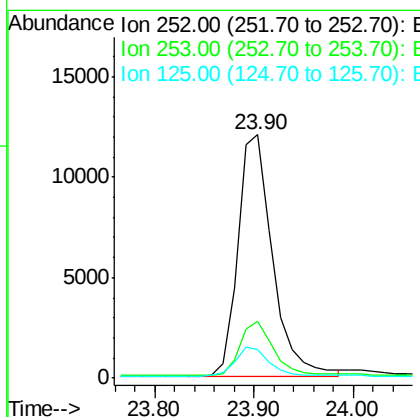
Manual Integrations
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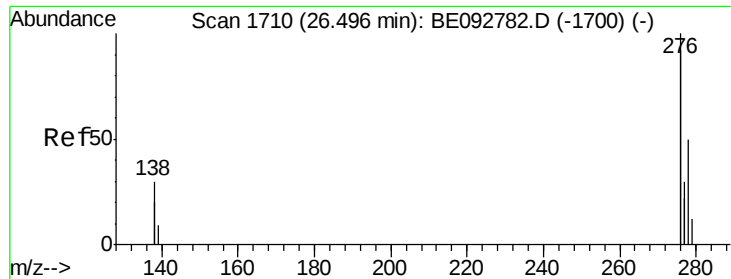
mohammad
3/7/2017 4:22:43 PM



#34
Benzo(a)pyrene
Concen: 1.52 ng
RT: 23.90 min Scan# 1527
Delta R.T. 0.00 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.0	28.6
125	11.5	11.8	17.8#





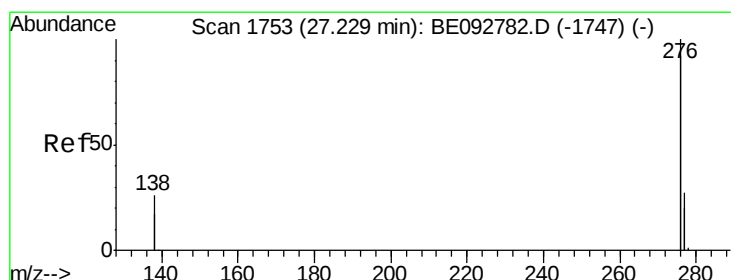
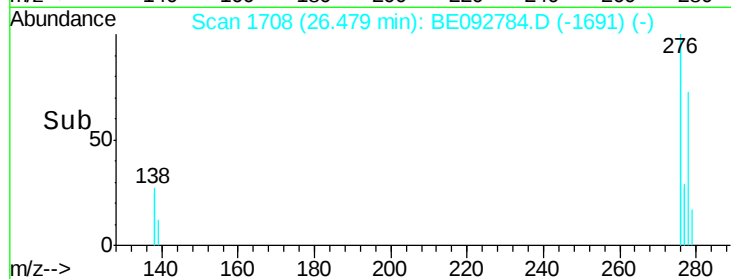
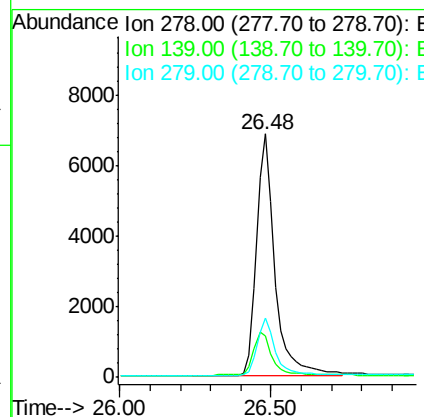
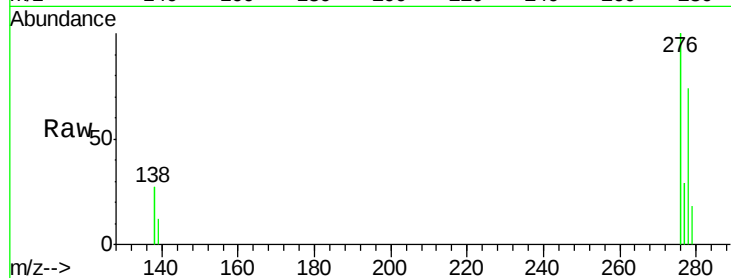
#35
Dibenzo(a,h)anthracene
Concen: 1.40 ng
RT: 26.48 min Scan# 1708
Delta R.T. -0.02 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.8	13.8	20.8
279	24.2	21.4	32.2

Manual Integrations
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3/7/2017 4:22:43 PM



#36
Benzo(g,h,i)perylene
Concen: 1.38 ng
RT: 27.21 min Scan# 1751
Delta R.T. -0.02 min
Lab File: BE092784.D
Acq: 6 Mar 2017 12:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.8	29.8
138	22.1	19.8	29.6

