

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092317\
 Data File : BE094097.D
 Acq On : 24 Sep 2017 2:57
 Operator : SJ/JU
 Sample : I5340-11
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampled :
 LT-TS-011

Manual Integrations
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Quant Time: Sep 25 13:40:53 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 25 13:07:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.90	152	2709	0.40	ng	0.00
7) Naphthalene-d8	10.69	136	14531	0.40	ng	0.00
13) Acenaphthene-d10	14.51	164	8302	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	22152	0.40	ng	0.00
27) Chrysene-d12	21.40	240	15025	0.40	ng	0.00
34) Perylene-d12	23.91	264	14594	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.50	112	2908	0.09	ng	0.00
5) Phenol-d6	7.09	99	4505	0.28	ng	0.00
8) Nitrobenzene-d5	9.06	82	4117	0.32	ng	0.00
11) 2-Methylnaphthalene-d10	12.28	152	6043	0.25	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	954	0.15	ng	0.00
15) 2-Fluorobiphenyl	13.13	172	8165	0.30	ng	0.00
25) Fluoranthene-d10	19.27	212	37679	0.13	ng	0.00
29) Terphenyl-d14	19.85	244	5466	0.23	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.74	128	5888	0.032	ng	# 96
12) 2-Methylnaphthalene	12.35	142	832	0.028	ng	# 84
16) Acenaphthylene	14.23	152	6377	0.153	ng	98
17) Acenaphthene	14.57	154	1564	0.056	ng	95
18) Fluorene	15.56	166	2637	0.064	ng	87
23) Phenanthrene	17.27	178	68599	0.865	ng	97
24) Anthracene	17.37	178	11323	0.185	ng	# 95
26) Fluoranthene	19.30	202	121613	1.428	ng	99
28) Pyrene	19.66	202	117269	2.821	ng	# 95
30) Benzo(a)anthracene	21.38	228	55416	1.101	ng	96
31) Chrysene	21.44	228	59552	1.208	ng	96
32) Bis(2-ethylhexyl)phthalate	21.29	149	29656	0.219	ng	99
33) Indeno(1,2,3-cd)pyrene	26.56	276	36151	0.948	ng	96
35) Benzo(b)fluoranthene	23.14	252	77813	1.473	ng	96
36) Benzo(k)fluoranthene	23.19	252	28043m	0.529	ng	
37) Benzo(a)pyrene	23.80	252	54735	1.154	ng	98
38) Dibenzo(a,h)anthracene	26.56	278	9275	0.244	ng	# 76
39) Benzo(a,h,i)perylene	27.38	276	36569	0.963	ng	99

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

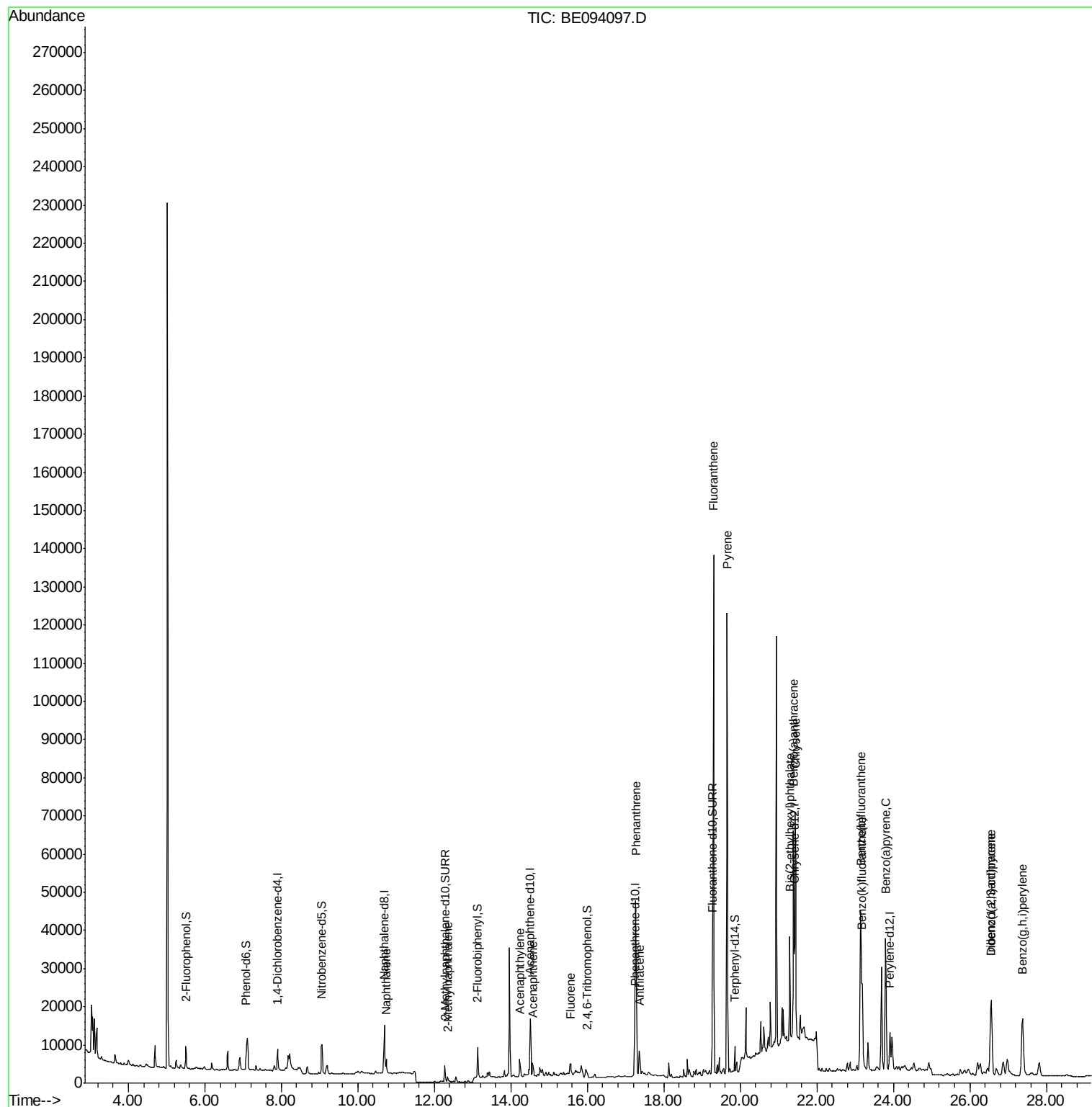
Data Path : Z:\HPCHEM1\BNA E\DATA\BE092317\
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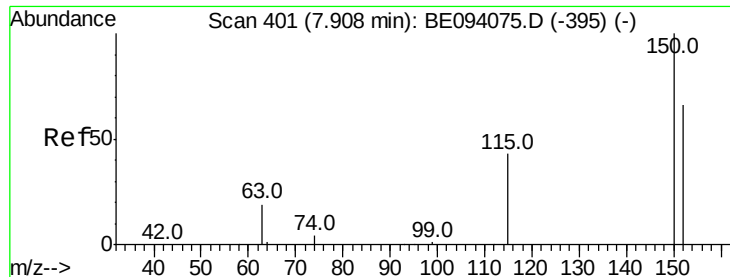
Instrument :
BNA_E
ClientSampled :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 25 13:07:29 2017
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#1

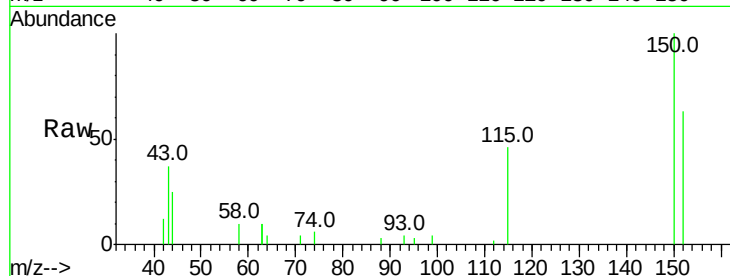
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.90 min Scan# 401
Delta R.T. -0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
BNA_E
ClientSampleId :
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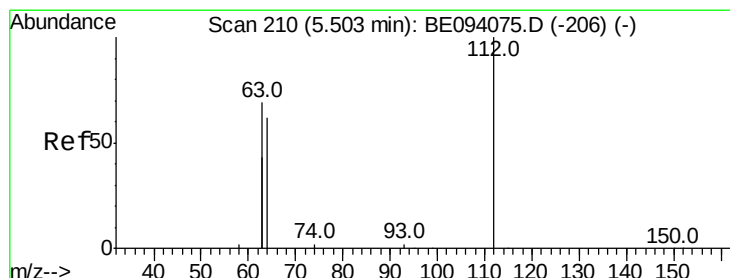
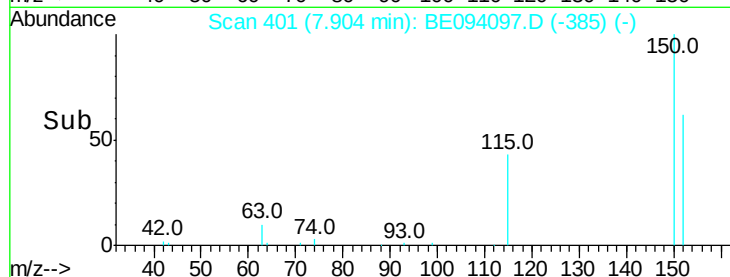
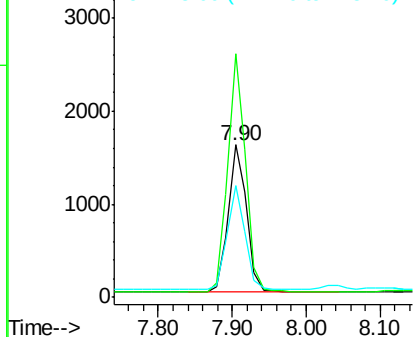
Tot Ion	Ratio	Lower	Upper
152	100		
150	159.5	117.2	175.8
115	73.0	57.0	85.6

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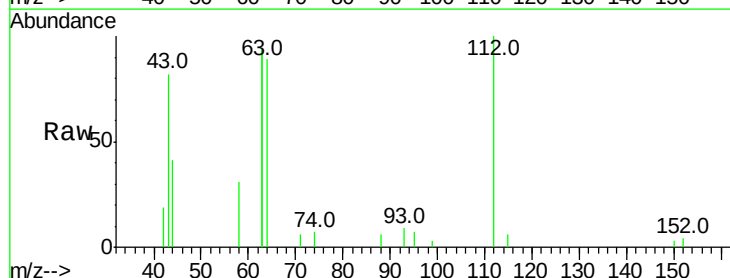
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



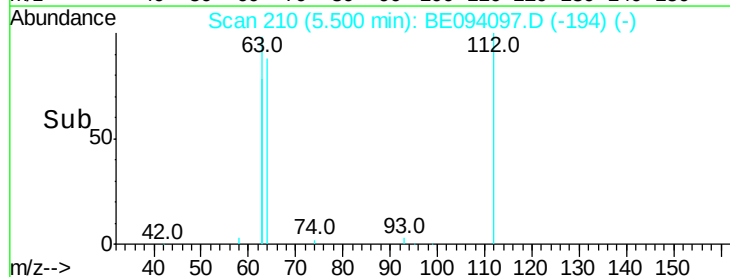
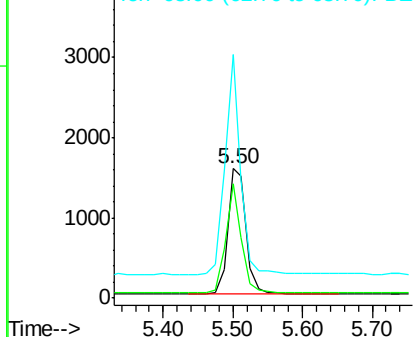
#4

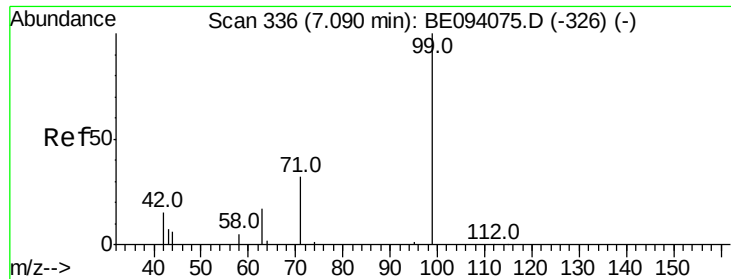
2-Fluorophenol
Concen: 0.093 ng
RT: 5.50 min Scan# 210
Delta R.T. -0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.9	60.1	90.1
63	147.9	116.8	175.2



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: 0.281 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Instrument :

BNA_E

ClientSampleId :

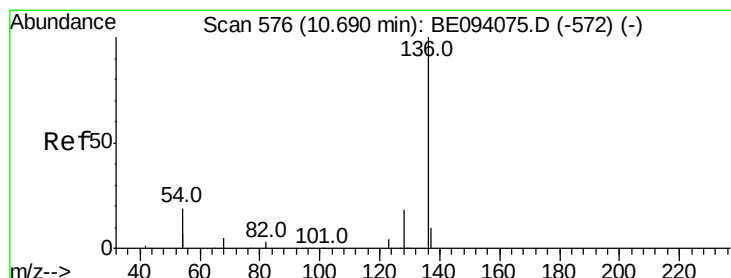
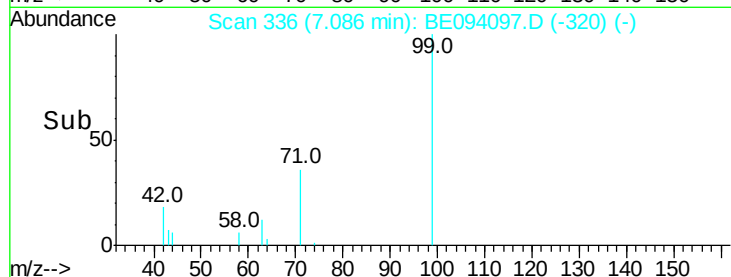
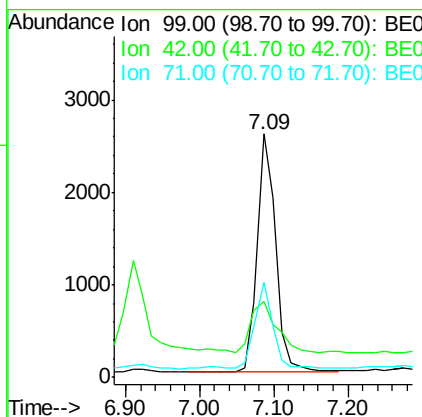
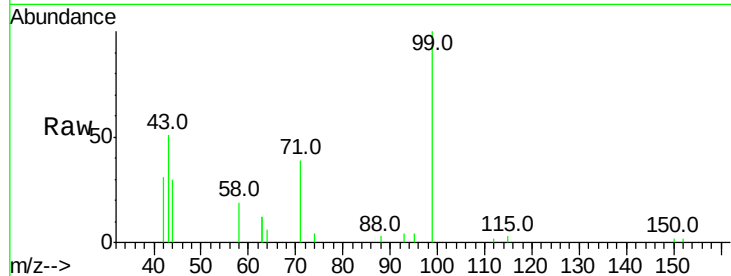
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Tot Ion:	99	Resp:	4505
Ion	Ratio	Lower	Upper
99	100		
42	30.5	20.2	30.2#
71	37.5	28.4	42.6

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#7

Naphthalene-d8

Concen: 0.400 ng

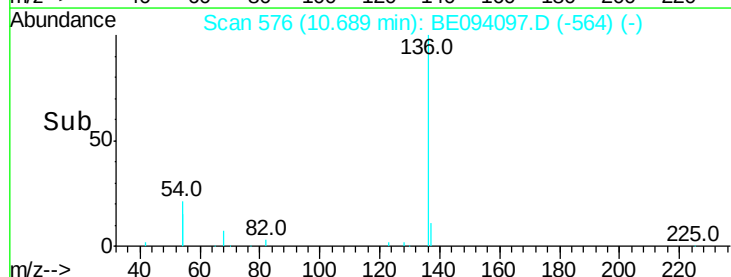
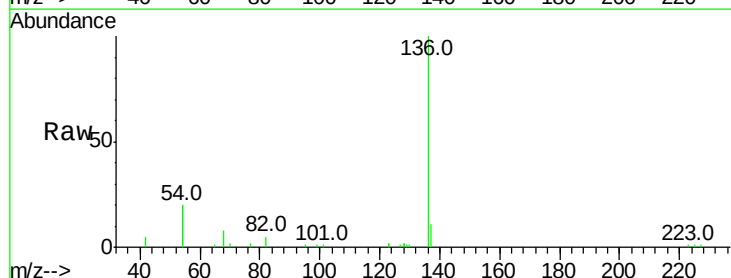
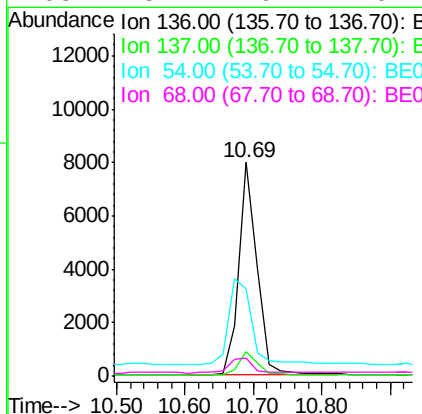
RT: 10.69 min Scan# 576

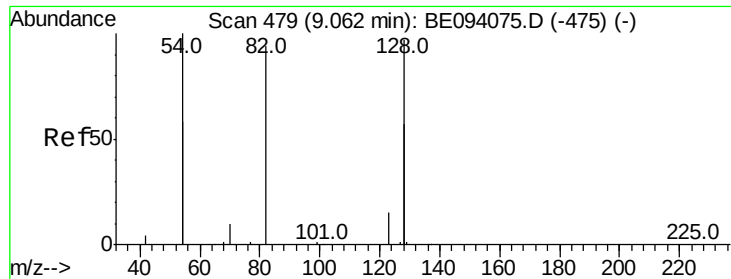
Delta R.T. -0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Tgt Ion:	136	Resp:	14531
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.5	14.3
54	40.9	29.1	43.7
68	8.2	6.2	9.2





#8

Nitrobenzene-d5

Concen: 0.319 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Instrument :

BNA_E

ClientSampleId :

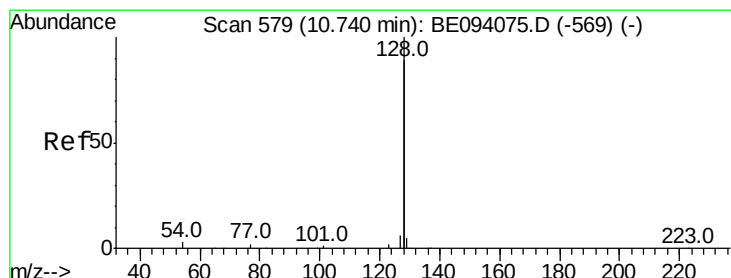
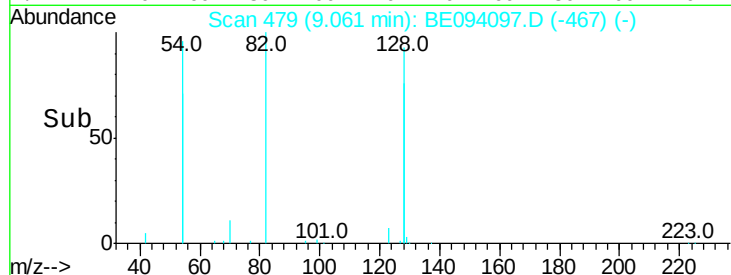
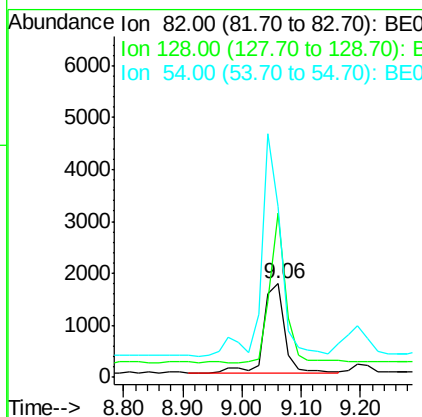
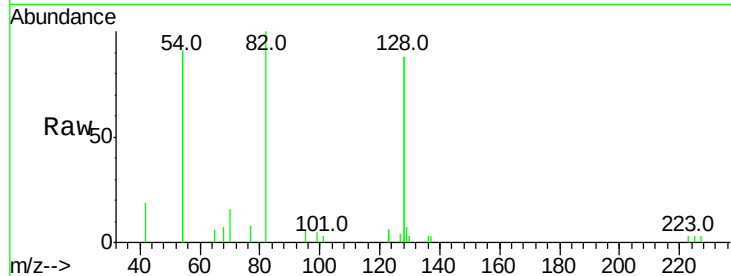
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Tot Ion	Ratio	Lower	Upper
82	100		
128	175.5	150.0	225.0
54	182.9	154.2	231.4

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#9

Naphthalene

Concen: 0.032 ng

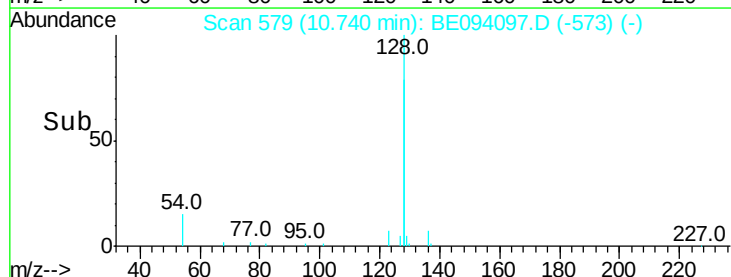
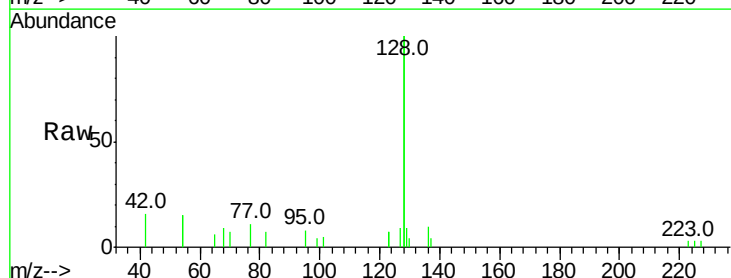
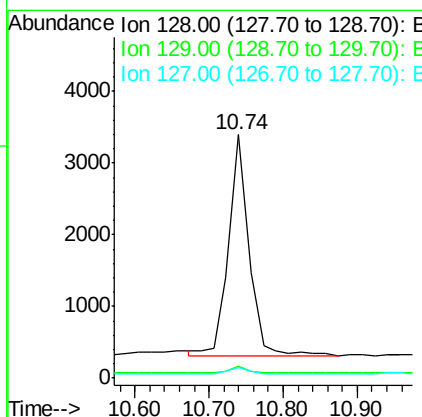
RT: 10.74 min Scan# 579

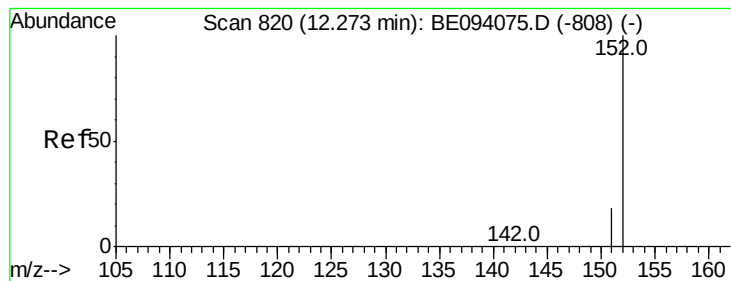
Delta R.T. -0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Lower	Upper
128	100		
129	4.6	2.6	3.8#
127	4.6	2.8	4.2#





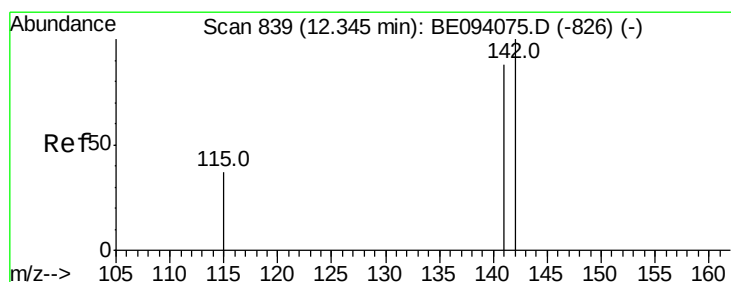
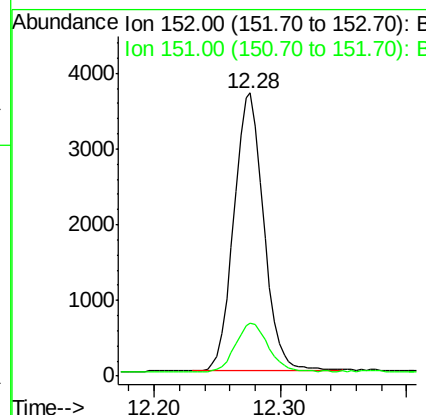
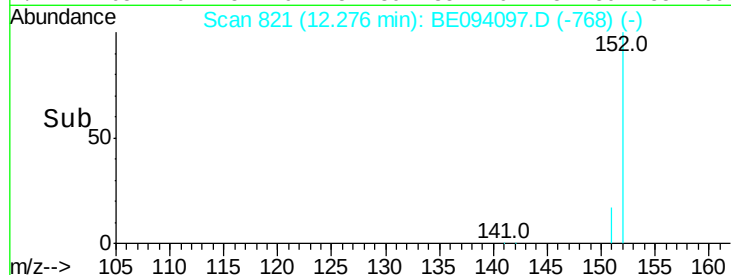
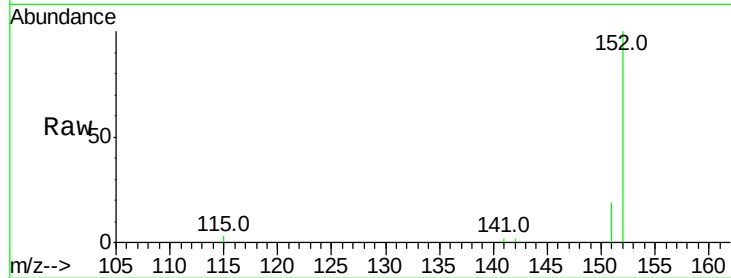
#11
2-Methylnaphthalene-d10
Concen: 0.245 ng
RT: 12.28 min Scan# 821
Delta R.T. 0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
BNA_E
ClientSampleId :
LT-TS-011

Tot Ion:152 Resp: 6043
Ion Ratio Lower Upper
152 100
151 19.5 15.4 23.0

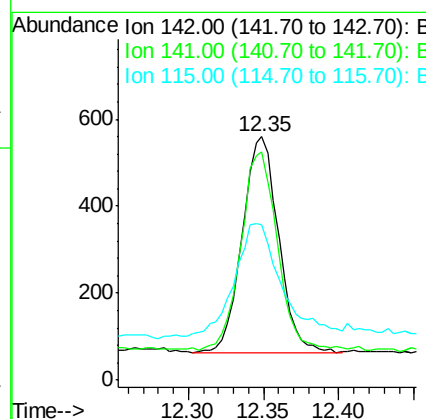
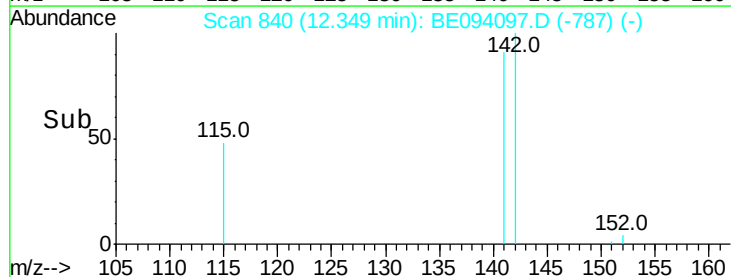
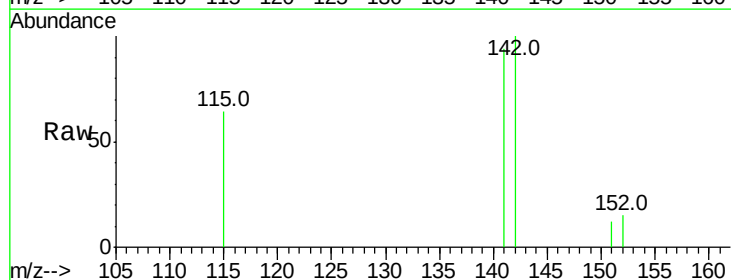
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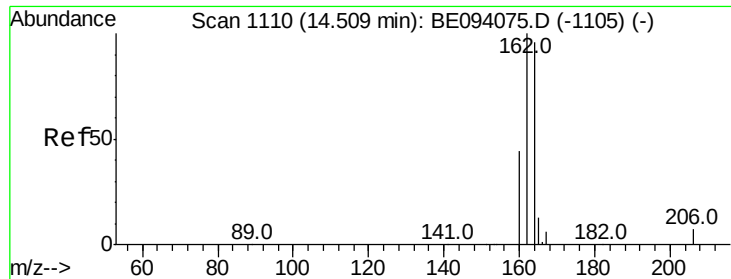
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#12
2-Methylnaphthalene
Concen: 0.028 ng
RT: 12.35 min Scan# 840
Delta R.T. 0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion:142 Resp: 832
Ion Ratio Lower Upper
142 100
141 93.6 70.4 105.6
115 63.9 31.7 47.5#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.51 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Instrument :

BNA_E

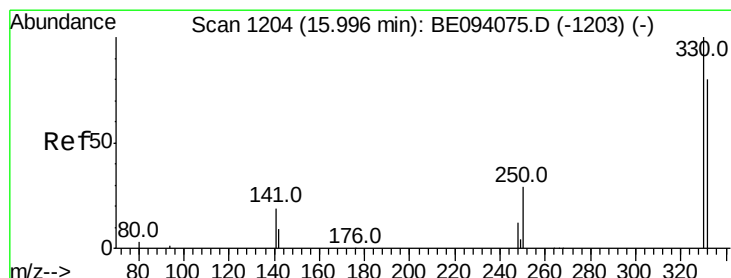
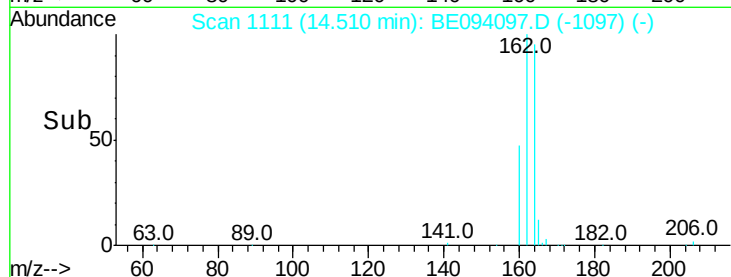
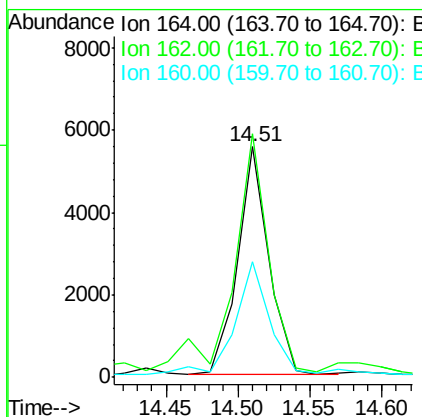
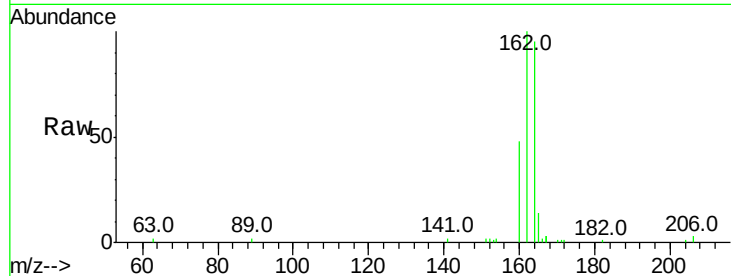
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Tot Ion:	164	Resp:	8302
Ion Ratio	Lower	Upper	
164	100		
162	105.5	83.1	124.7
160	50.4	37.1	55.7

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#14

2,4,6-Tribromophenol

Concen: 0.151 ng

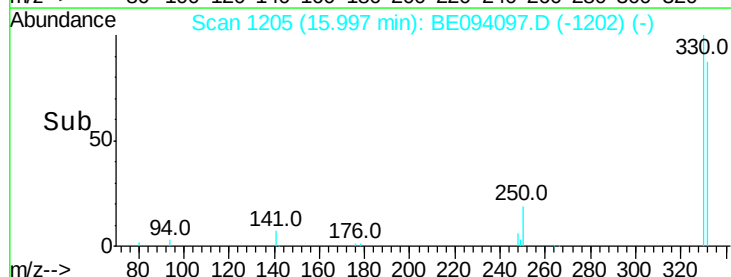
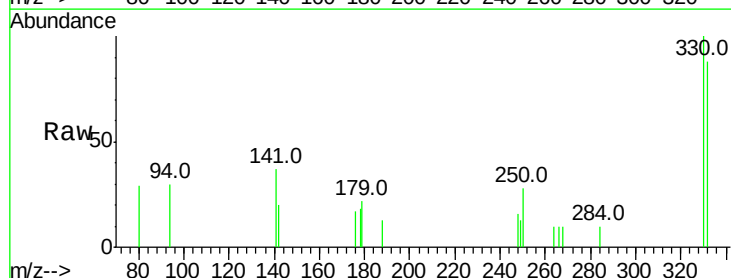
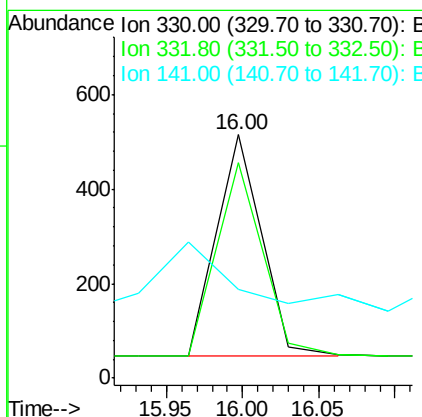
RT: 16.00 min Scan# 1205

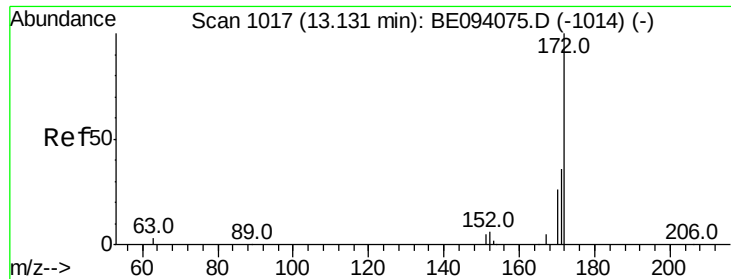
Delta R.T. 0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Tgt Ion:	330	Resp:	954
Ion Ratio	Lower	Upper	
330	100		
332	90.6	152.7	229.1#
141	0.0	33.7	50.5#





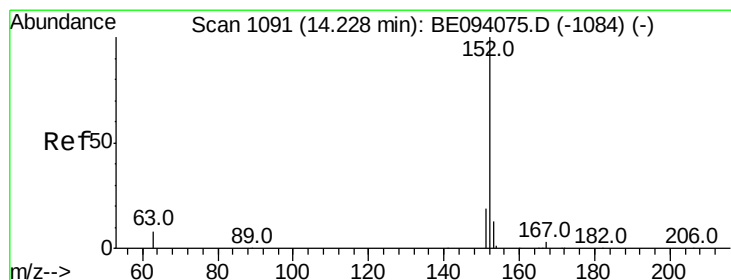
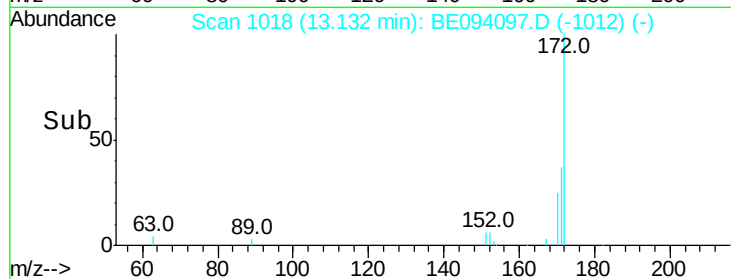
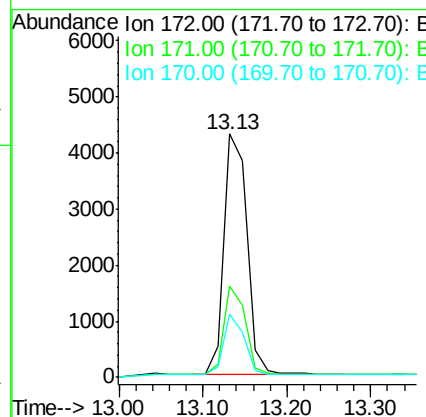
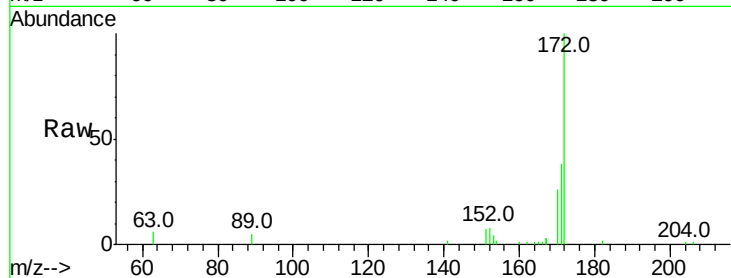
#15
2-Fluorobiphenyl
Concen: 0.299 ng
RT: 13.13 min Scan# 1018
Delta R.T. 0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.9	44.9
170	26.1	21.8	32.8

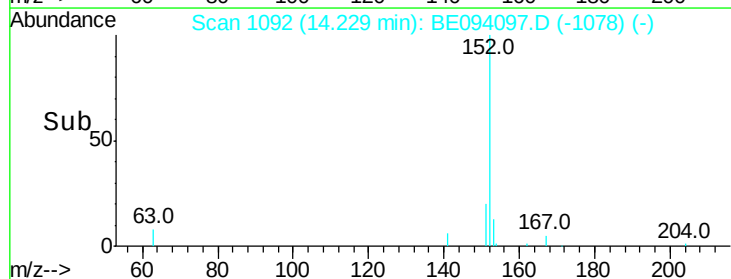
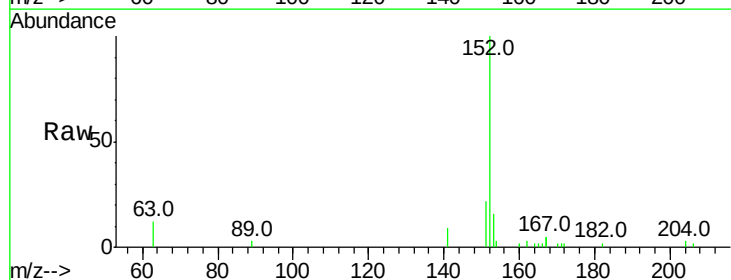
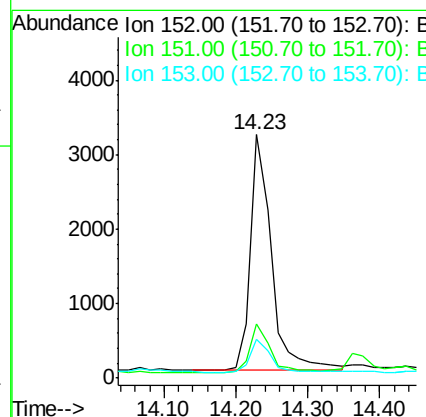
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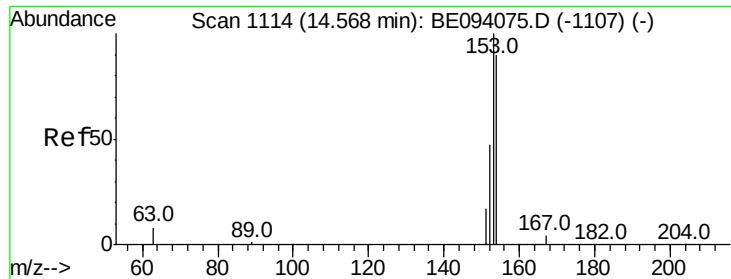
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#16
Acenaphthylene
Concen: 0.153 ng
RT: 14.23 min Scan# 1092
Delta R.T. 0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.7	23.5
153	13.8	10.5	15.7





#17

Acenaphthene

Concen: 0.056 ng

RT: 14.57 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Instrument :

BNA_E

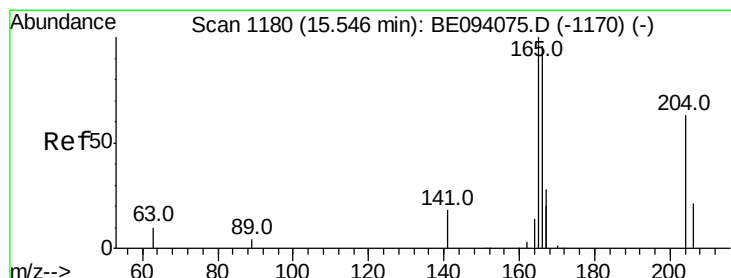
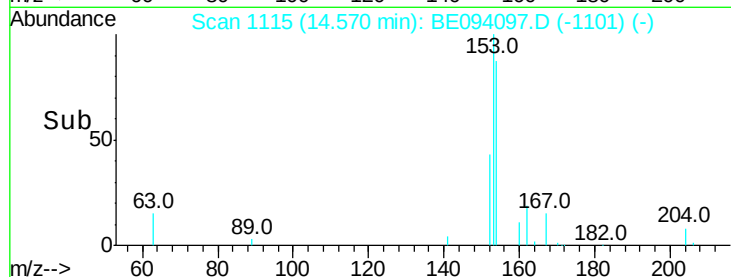
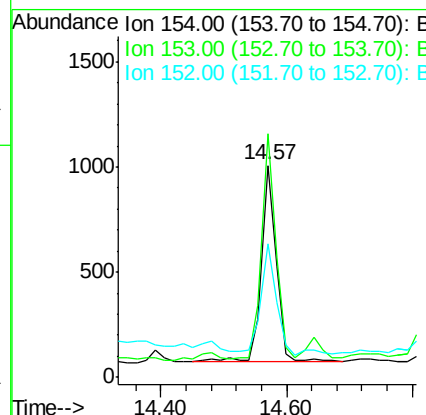
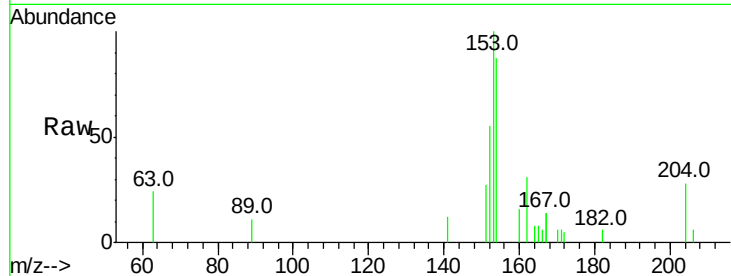
ClientSampled :

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Tot Ion	Ratio	Lower	Upper
154	100		
153	107.7	89.2	133.8
152	58.2	42.0	63.0

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#18

Fluorene

Concen: 0.064 ng

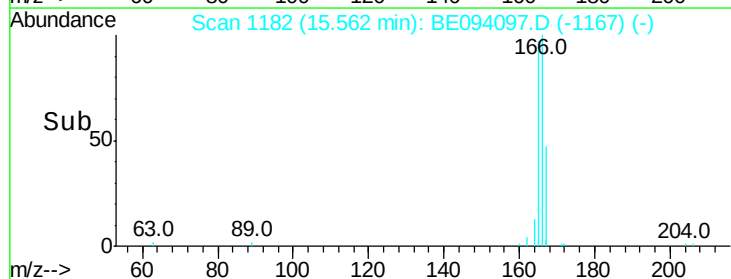
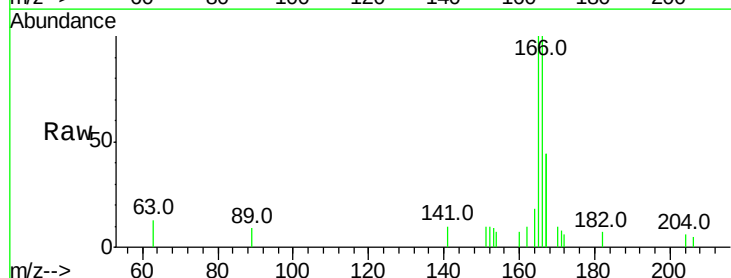
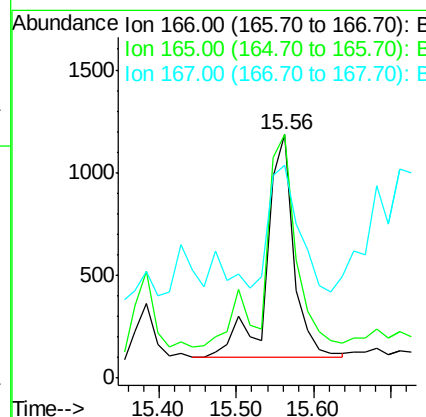
RT: 15.56 min Scan# 1182

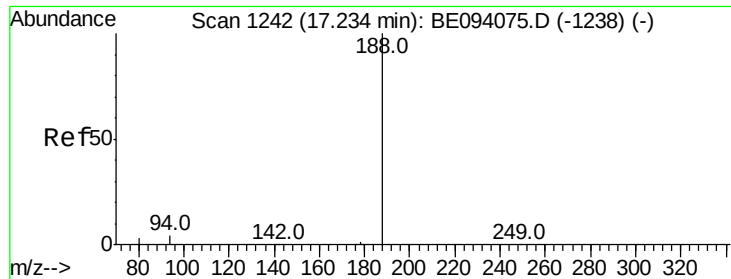
Delta R.T. 0.02 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	110.2	77.8	116.6
167	62.5	42.4	63.6





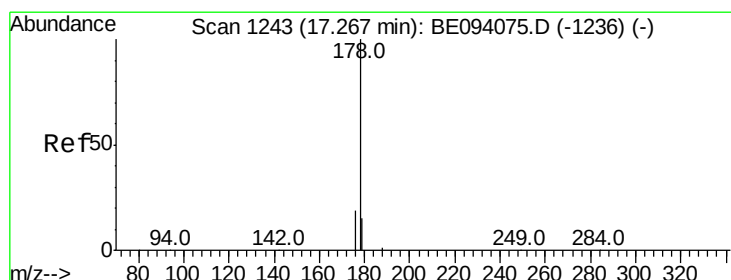
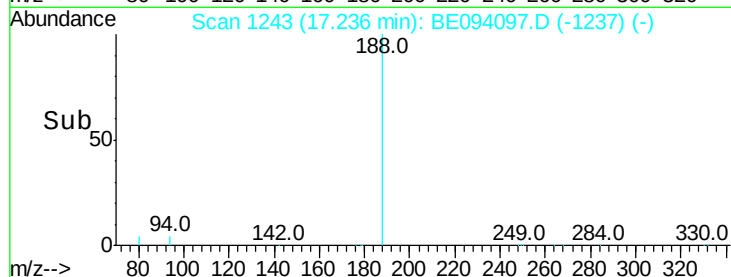
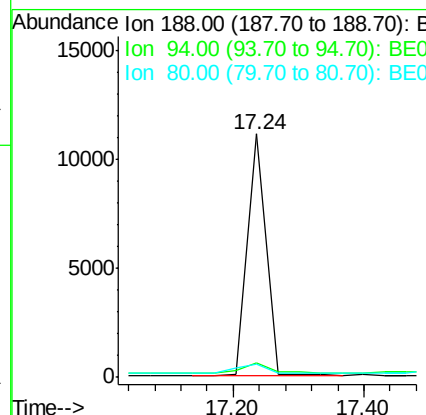
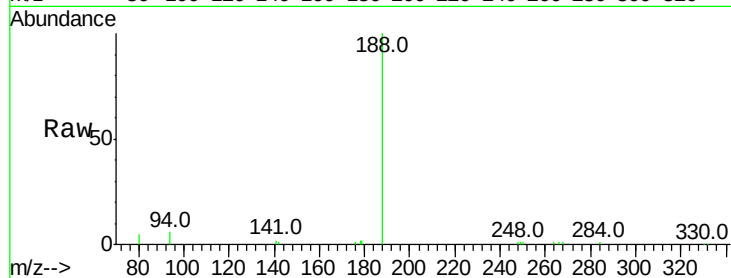
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.24 min Scan# 1243
Delta R.T. 0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
BNA_E
ClientSampled :
LT-TS-011

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	5.9	3.9	5.9#
80	5.4	3.6	5.4

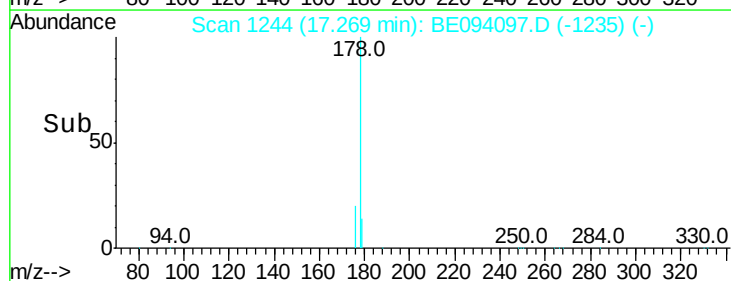
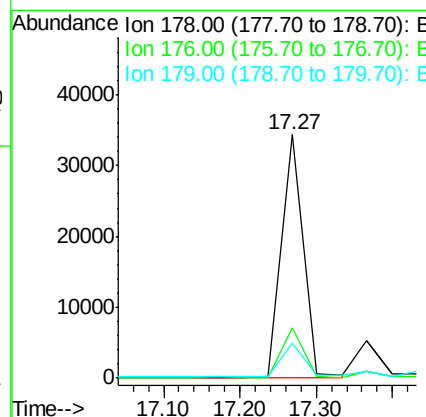
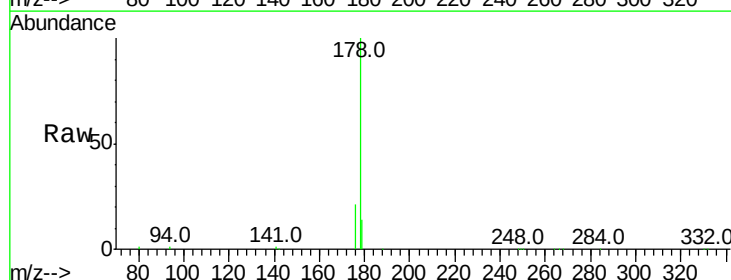
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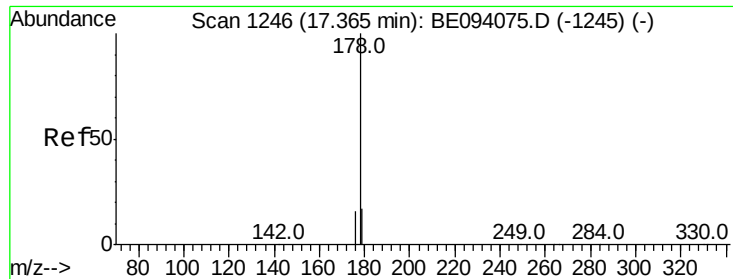
Sohil
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#23
Phenanthrene
Concen: 0.865 ng
RT: 17.27 min Scan# 1244
Delta R.T. 0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.5	15.1	22.7
179	15.2	11.8	17.6





#24

Anthracene

Concen: 0.185 ng

RT: 17.37 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Instrument :

BNA_E

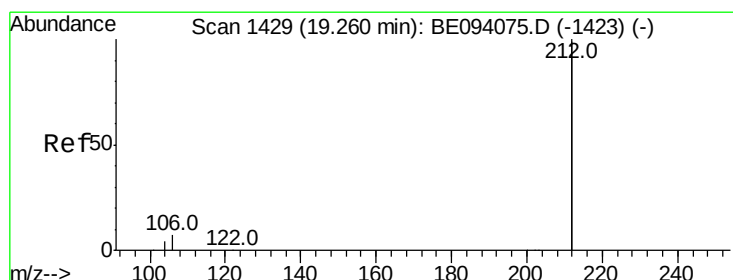
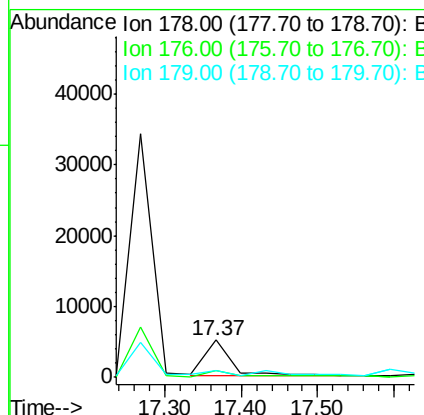
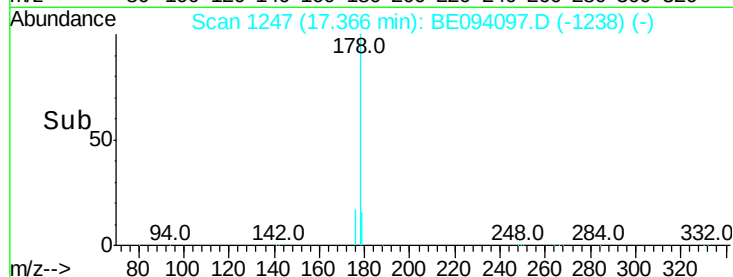
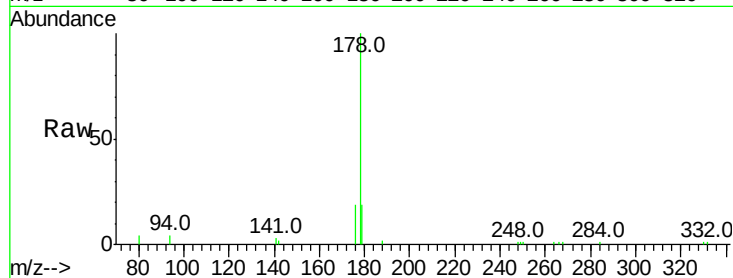
ClientSampleId :

LT-TS-011

Tot Ion:178	Resp:	11323
Ion Ratio	Lower	Upper
178	100	
176	16.3	12.8 19.2
179	12.4	13.0 19.6#

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.133 ng

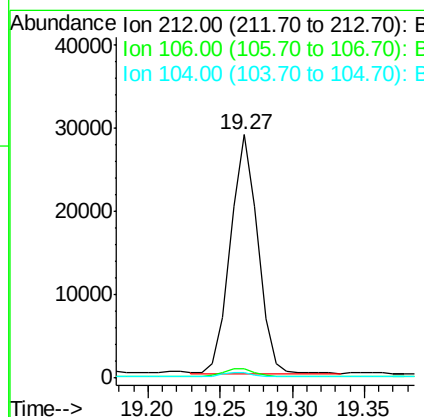
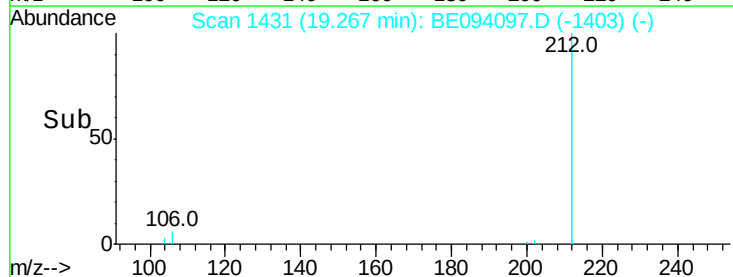
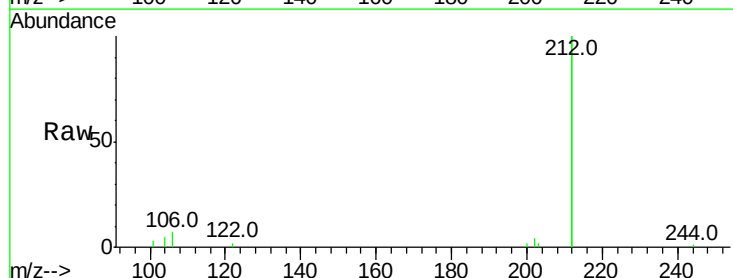
RT: 19.27 min Scan# 1431

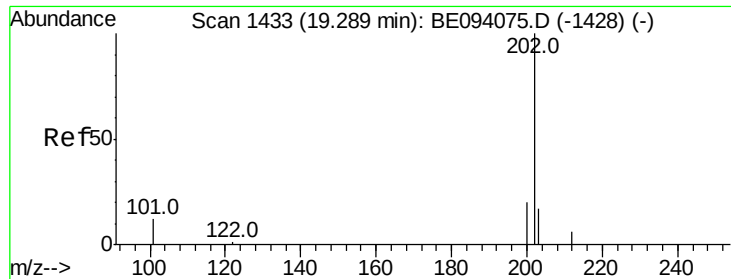
Delta R.T. 0.01 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Tgt Ion:212	Resp:	37679
Ion Ratio	Lower	Upper
212	100	
106	4.0	2.8 4.2
104	2.3	1.6 2.4





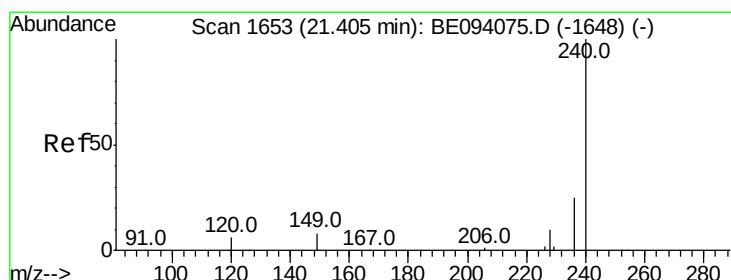
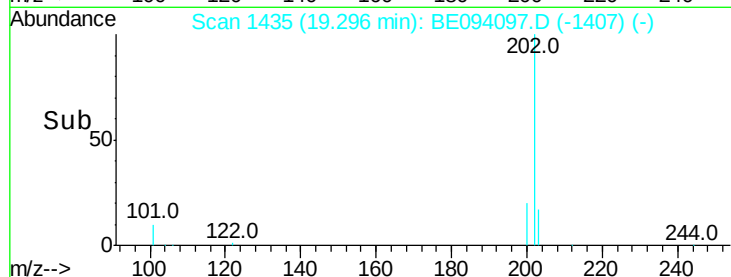
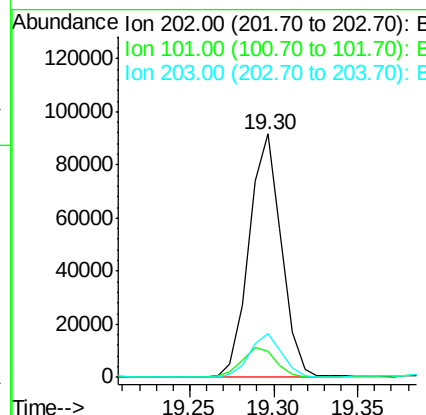
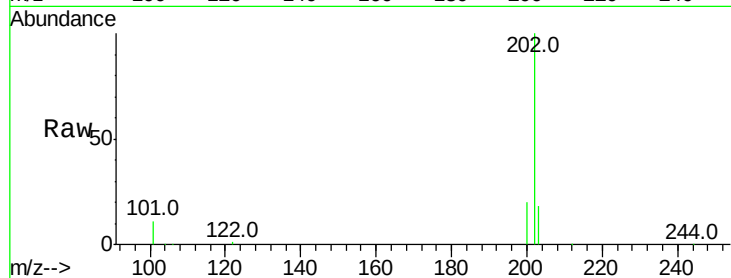
#26
Fluoranthene
 Concen: 1.428 ng
 RT: 19.30 min Scan# 1435
 Delta R.T. 0.01 min
 Lab File: BE094097.D
 Acq: 24 Sep 2017 2:57

Instrument :
 BNA_E
 ClientSampleId :
 LT-TS-011

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.6	9.8	14.8
203	17.5	13.7	20.5

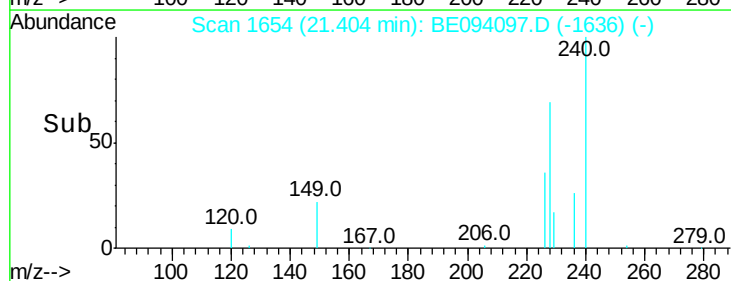
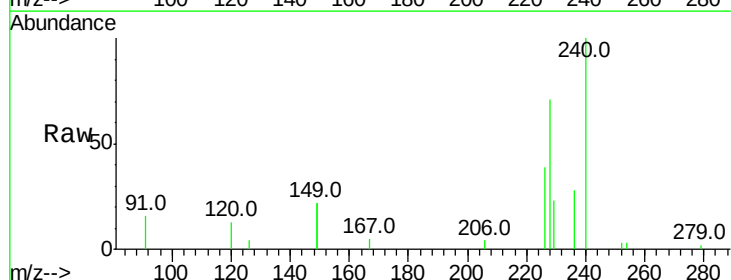
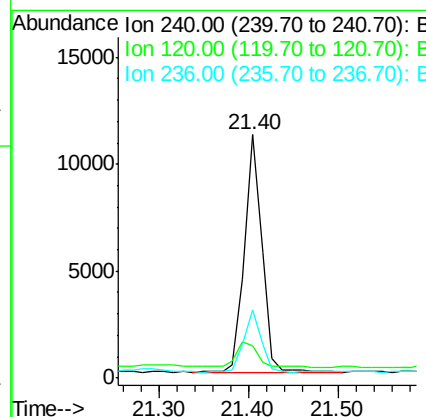
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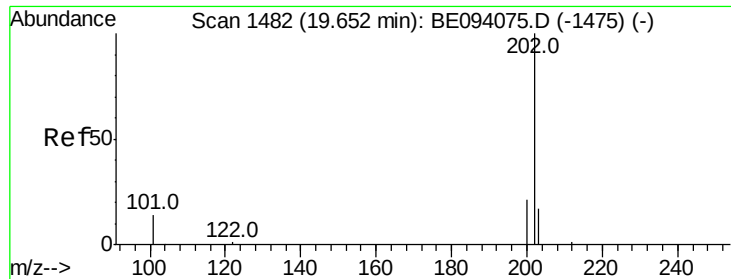
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#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.40 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: BE094097.D
 Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.5	5.5	8.3#
236	28.3	20.7	31.1





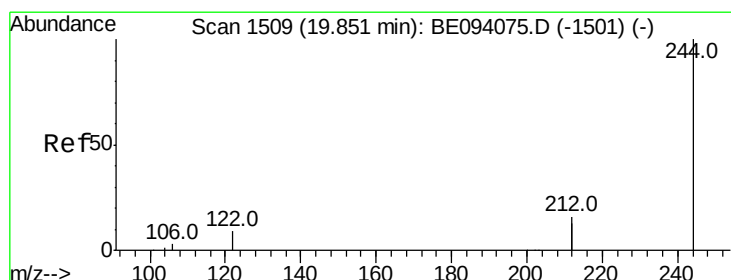
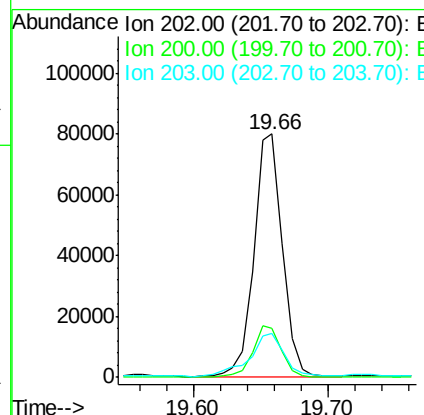
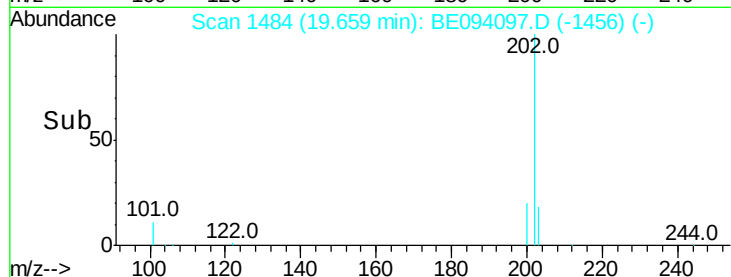
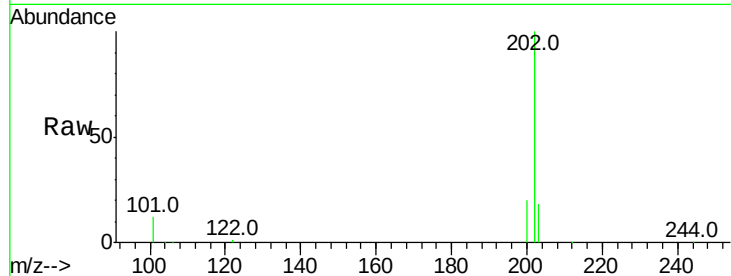
#28
Pvrene
Concen: 2.821 ng
RT: 19.66 min Scan# 1484
Delta R.T. 0.01 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
BNA_E
ClientSampled :
LT-TS-011

Tot Ion	Ratio	Resp	Lower	Upper
202	100	117269		
200	20.9	16.6	25.0	
203	21.5	13.8	20.8	

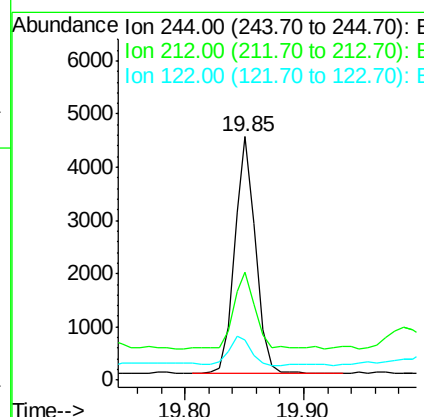
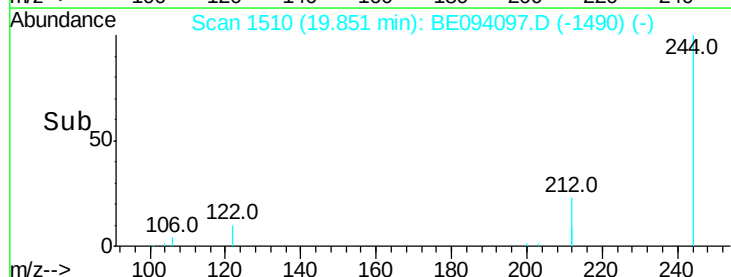
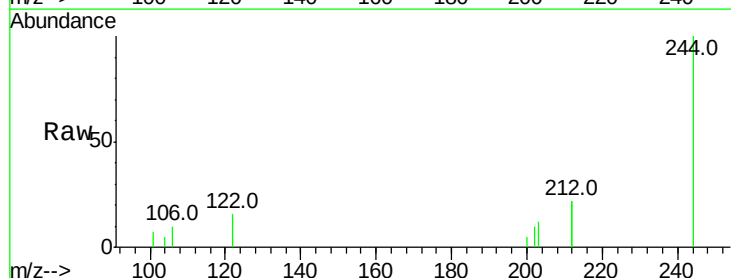
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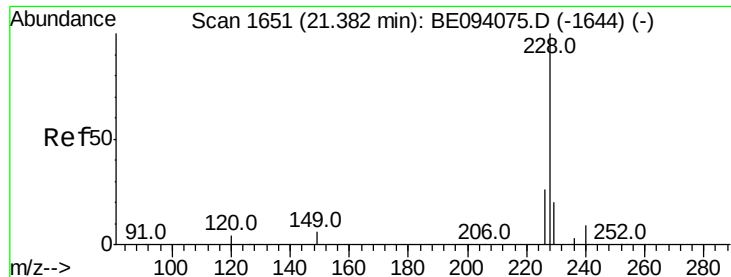
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#29
Terphenyl-d14
Concen: 0.232 ng
RT: 19.85 min Scan# 1510
Delta R.T. -0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	5466		
212	44.6	25.4	38.0	
122	16.3	8.1	12.1	





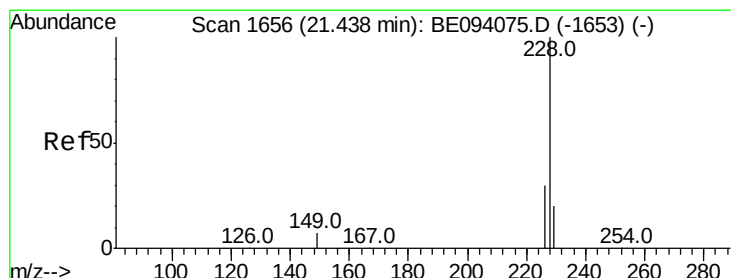
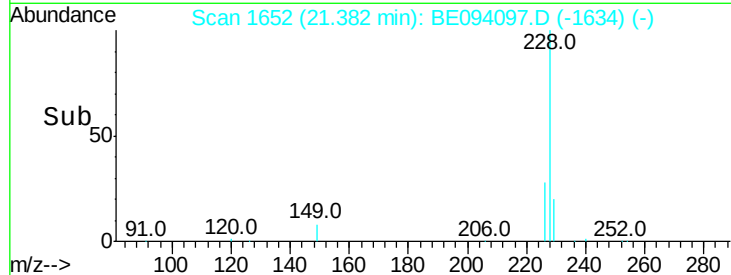
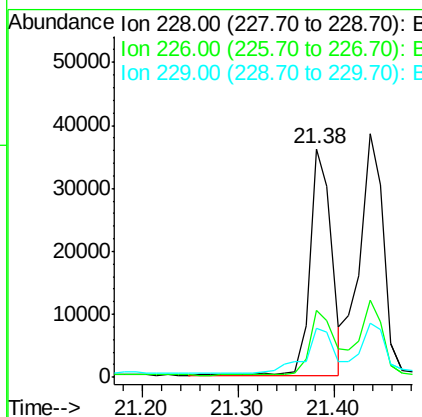
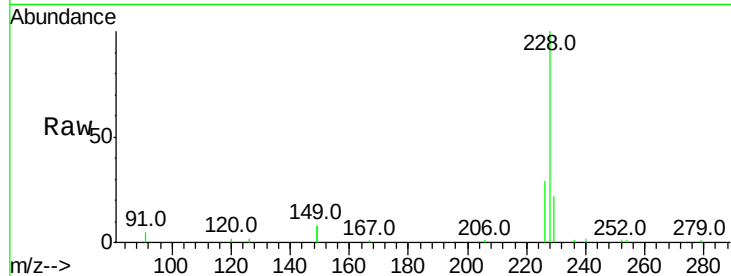
#30
Benzo(a)anthracene
Concen: 1.101 ng
RT: 21.38 min Scan# 1652
Delta R.T. -0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
BNA_E
ClientSampled :
LT-TS-011

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	21.4	32.0
229	21.5	16.4	24.6

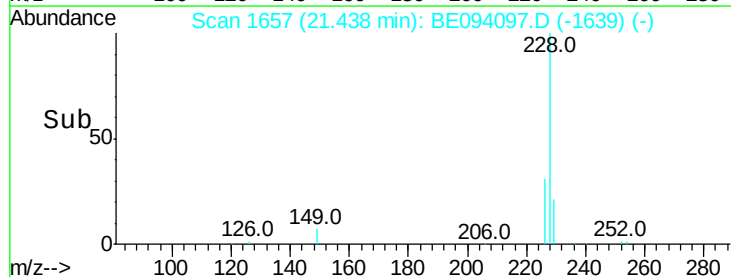
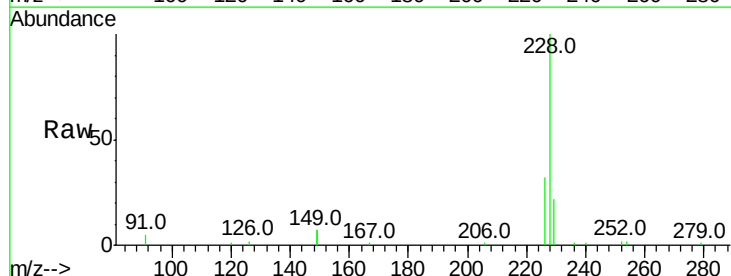
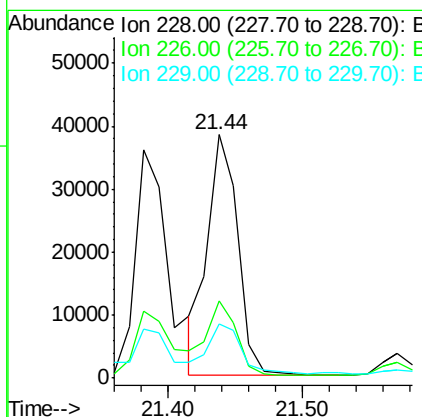
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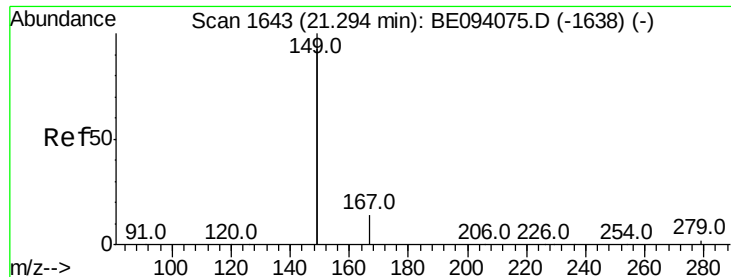
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#31
Chrysene
Concen: 1.208 ng
RT: 21.44 min Scan# 1657
Delta R.T. -0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	23.6	35.4
229	22.2	16.4	24.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.219 ng

RT: 21.29 min Scan# 1644

Delta R.T. -0.00 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Instrument :

BNA_E

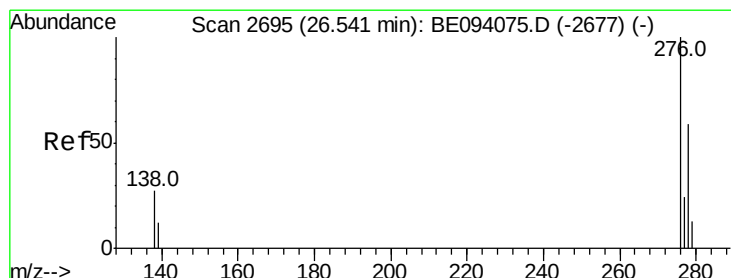
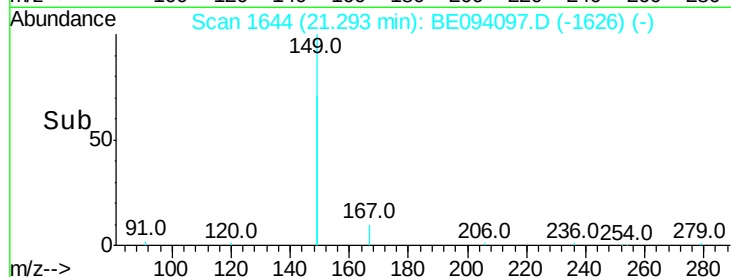
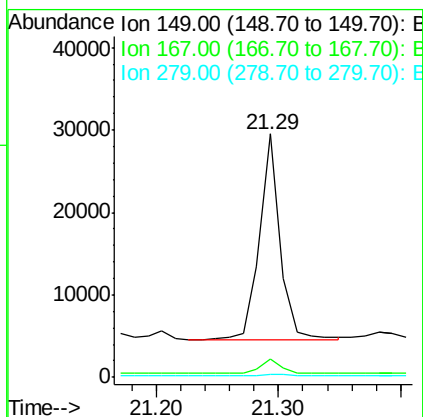
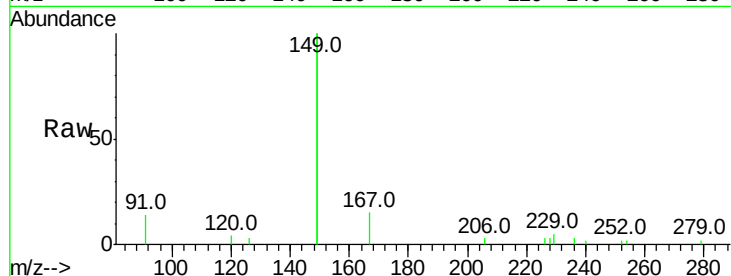
ClientSampleId :

LT-TS-011

Tot Ion:	149	Resp:	29656
Ion Ratio	Lower	Upper	
149	100		
167	7.0	5.4	8.0
279	0.9	0.7	1.1

Manual Integrations
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#33

Indeno(1,2,3-cd)pyrene

Concen: 0.948 ng

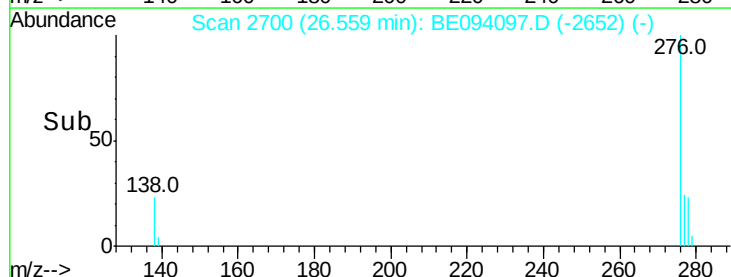
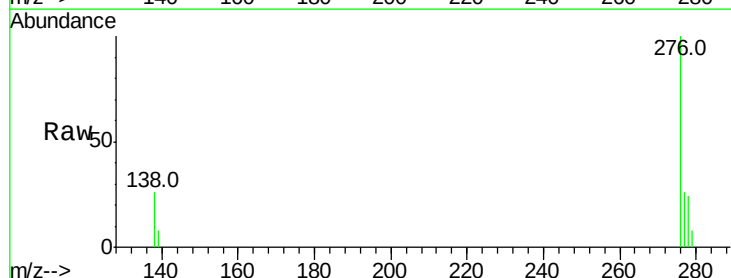
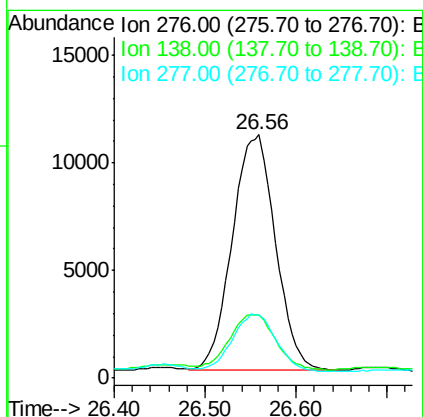
RT: 26.56 min Scan# 2700

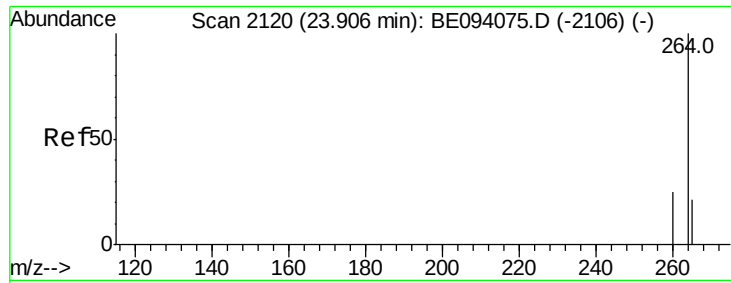
Delta R.T. 0.02 min

Lab File: BE094097.D

Acq: 24 Sep 2017 2:57

Tgt Ion:	276	Resp:	36151
Ion Ratio	Lower	Upper	
276	100		
138	24.5	22.5	33.7
277	25.0	19.9	29.9





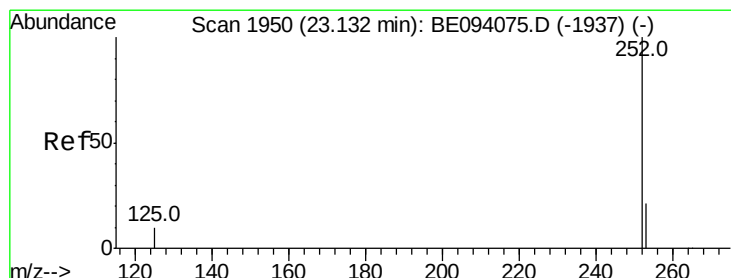
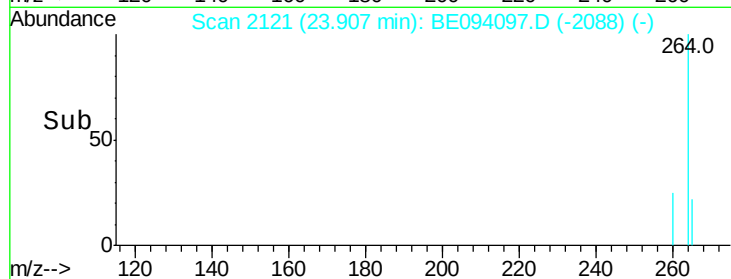
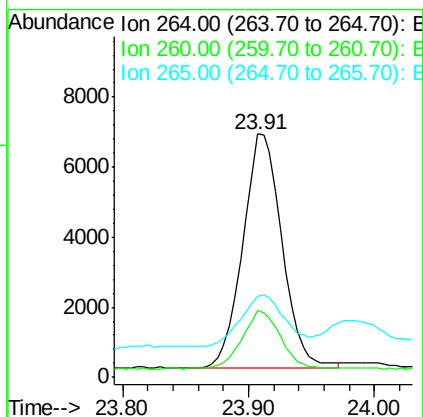
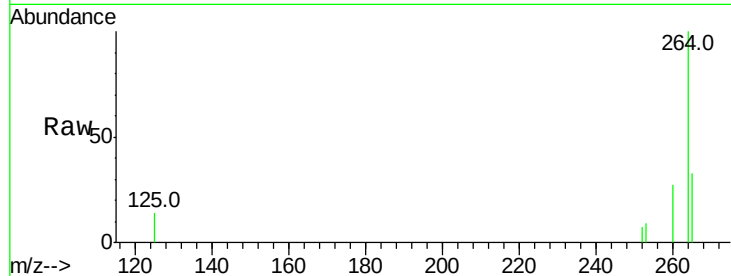
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.91 min Scan# 2121
Delta R.T. 0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
BNA_E
ClientSampleId :
LT-TS-011

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	27.3	20.5	30.7	
265	33.2	22.8	34.2	

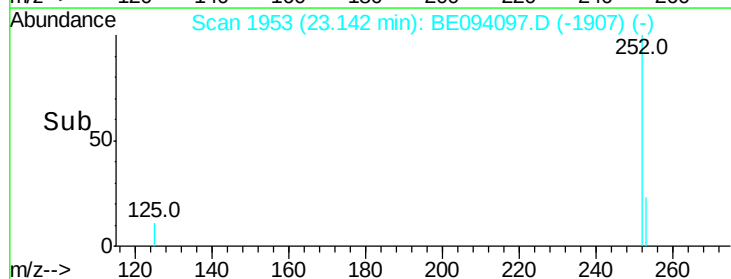
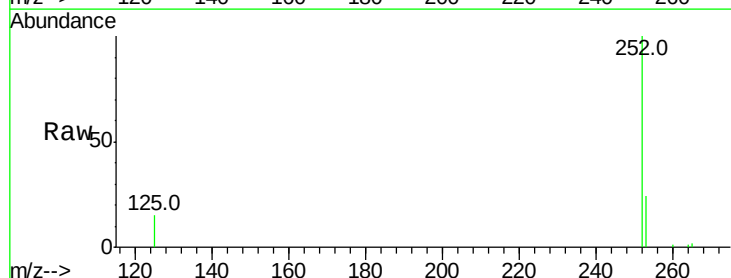
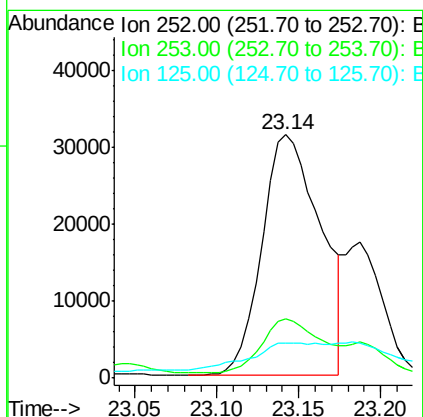
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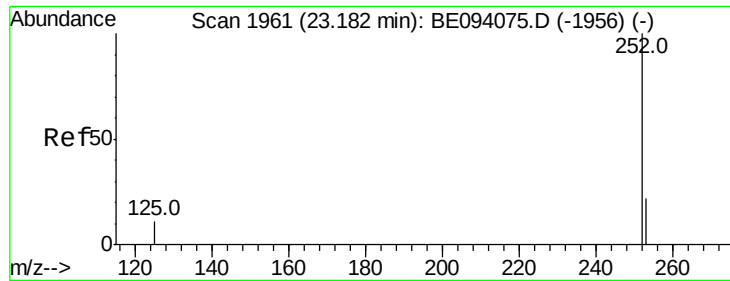
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#35
Benzo(b)fluoranthene
Concen: 1.473 ng
RT: 23.14 min Scan# 1953
Delta R.T. 0.01 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	24.2	18.2	27.2	
125	14.5	10.1	15.1	





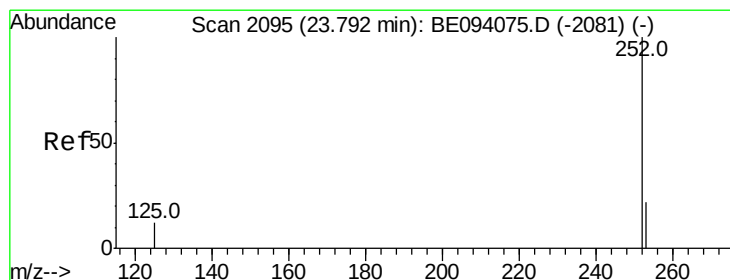
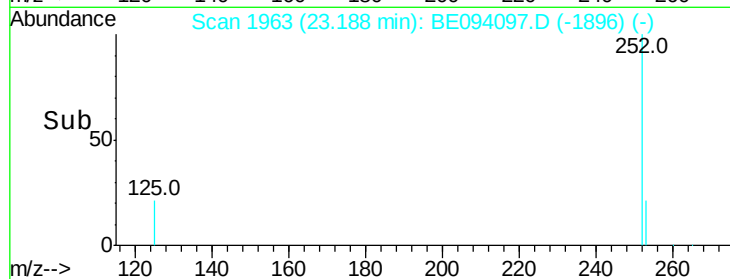
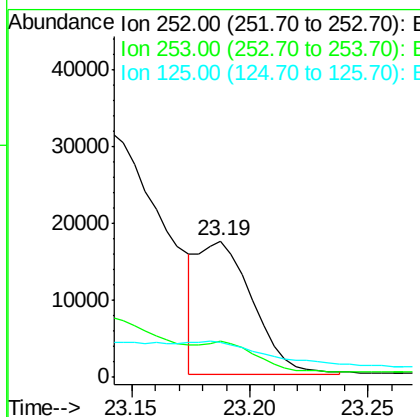
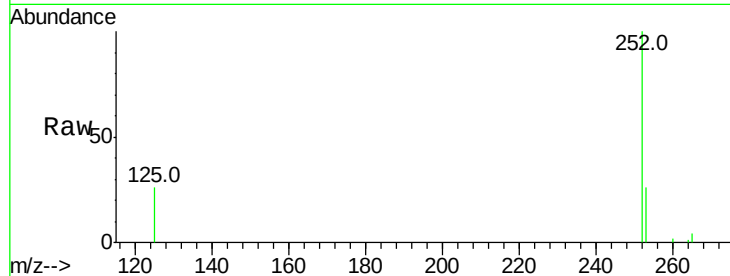
#36
Benzo(k)fluoranthene
Concen: 0.529 ng m
RT: 23.19 min Scan# 1963
Delta R.T. 0.01 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
BNA_E
ClientSampleId :
LT-TS-011

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.4	18.6	27.8
125	25.8	10.7	16.1

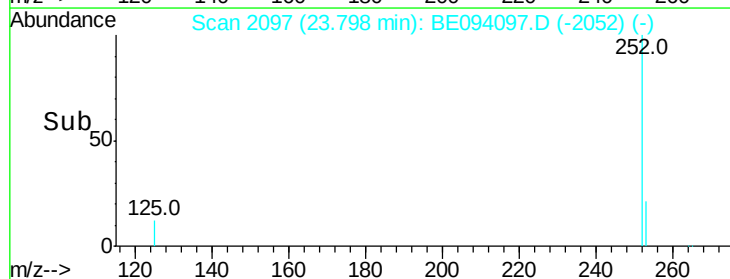
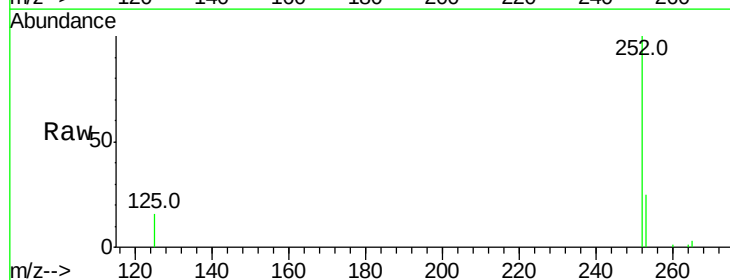
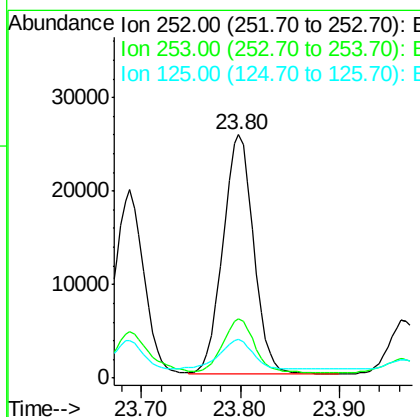
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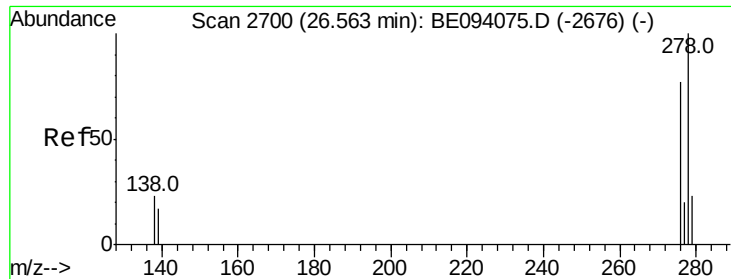
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#37
Benzo(a)pyrene
Concen: 1.154 ng
RT: 23.80 min Scan# 2097
Delta R.T. 0.01 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.0	28.6
125	15.9	11.8	17.8





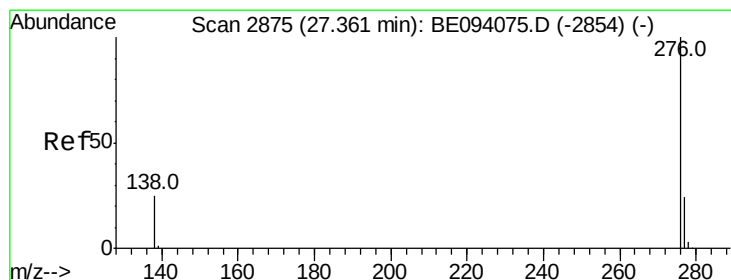
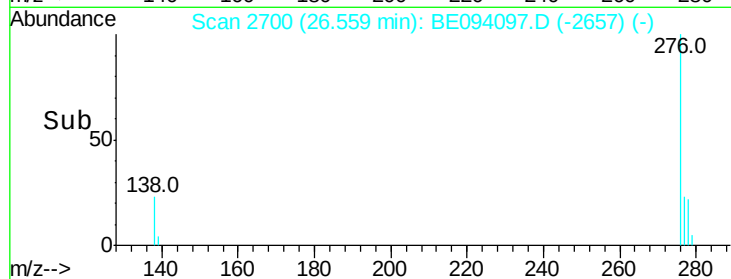
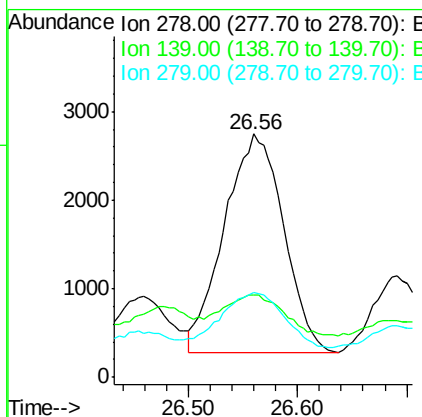
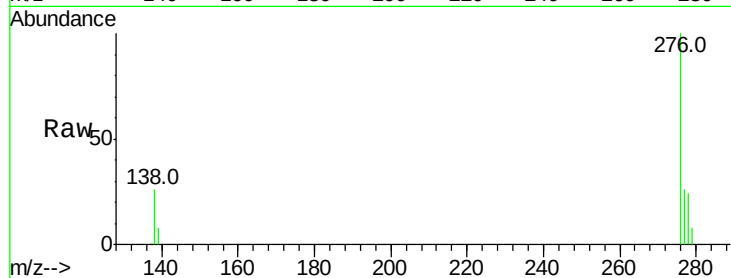
#38
Dibenzo(a,h)anthracene
Concen: 0.244 ng
RT: 26.56 min Scan# 2700
Delta R.T. -0.00 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Instrument :
BNA_E
ClientSampleId :
LT-TS-011

Tot Ion	Ratio	Lower	Upper
278	100		
139	34.0	16.3	24.5#
279	34.8	19.9	29.9#

Manual Integrations
APPROVED

Sohil
9/25/2017 6:24:56 PM



#39
Benzo(g,h,i)perylene
Concen: 0.963 ng
RT: 27.38 min Scan# 2879
Delta R.T. 0.01 min
Lab File: BE094097.D
Acq: 24 Sep 2017 2:57

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	20.8	31.2
138	27.3	21.5	32.3

