

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092517\
 Data File : BE094111.D
 Acq On : 25 Sep 2017 20:32
 Operator : SJ/JU
 Sample : I5340-12
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LT-TS-012

Manual Integrations
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Quant Time: Sep 26 02:48:14 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 25 17:37:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.91	152	1510	0.40	ng	0.00
7) Naphthalene-d8	10.69	136	7573	0.40	ng	0.00
13) Acenaphthene-d10	14.51	164	4998	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	18428	0.40	ng	0.00
27) Chrysene-d12	21.41	240	15819	0.40	ng	0.00
34) Perylene-d12	23.91	264	15036	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.50	112	2486	0.43	ng	0.00
5) Phenol-d6	7.09	99	3190	0.40	ng	0.00
8) Nitrobenzene-d5	9.06	82	2895	0.40	ng	0.00
11) 2-Methylnaphthalene-d10	12.27	152	4309	0.37	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	1009	0.35	ng	0.00
15) 2-Fluorobiphenyl	13.13	172	5920	0.36	ng	0.00
25) Fluoranthene-d10	19.27	212	61536	0.34	ng	0.00
29) Terphenyl-d14	19.85	244	9743	0.34	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.74	128	12287	0.144	ng	99
12) 2-Methylnaphthalene	12.35	142	1956	0.141	ng	98
16) Acenaphthylene	14.23	152	11698	0.467	ng	100
17) Acenaphthene	14.57	154	14631	0.935	ng	96
18) Fluorene	15.56	166	18358	0.864	ng	95
23) Phenanthrene	17.27	178	509766	10.812	ng	98
24) Anthracene	17.37	178	97888	1.979	ng	# 93
26) Fluoranthene	19.30	202	749516	14.187	ng	99
28) Pyrene	19.66	202	666907	13.305	ng	# 94
30) Benzo(a)anthracene	21.38	228	314364	5.901	ng	98
31) Chrysene	21.44	228	309095	6.013	ng	97
32) Bis(2-ethylhexyl)phthalate	21.29	149	57369	0.184	ng	98
33) Indeno(1,2,3-cd)pyrene	26.55	276	178483	3.244	ng	95
35) Benzo(b)fluoranthene	23.14	252	360430	6.644	ng	99
36) Benzo(k)fluoranthene	23.18	252	135801m	2.614	ng	
37) Benzo(a)pyrene	23.80	252	266593	5.438	ng	98
38) Dibenzo(a,h)anthracene	26.56	278	42514	0.916	ng	95
39) Benzo(a,h,i)perylene	27.38	276	178206	3.878	ng	96

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

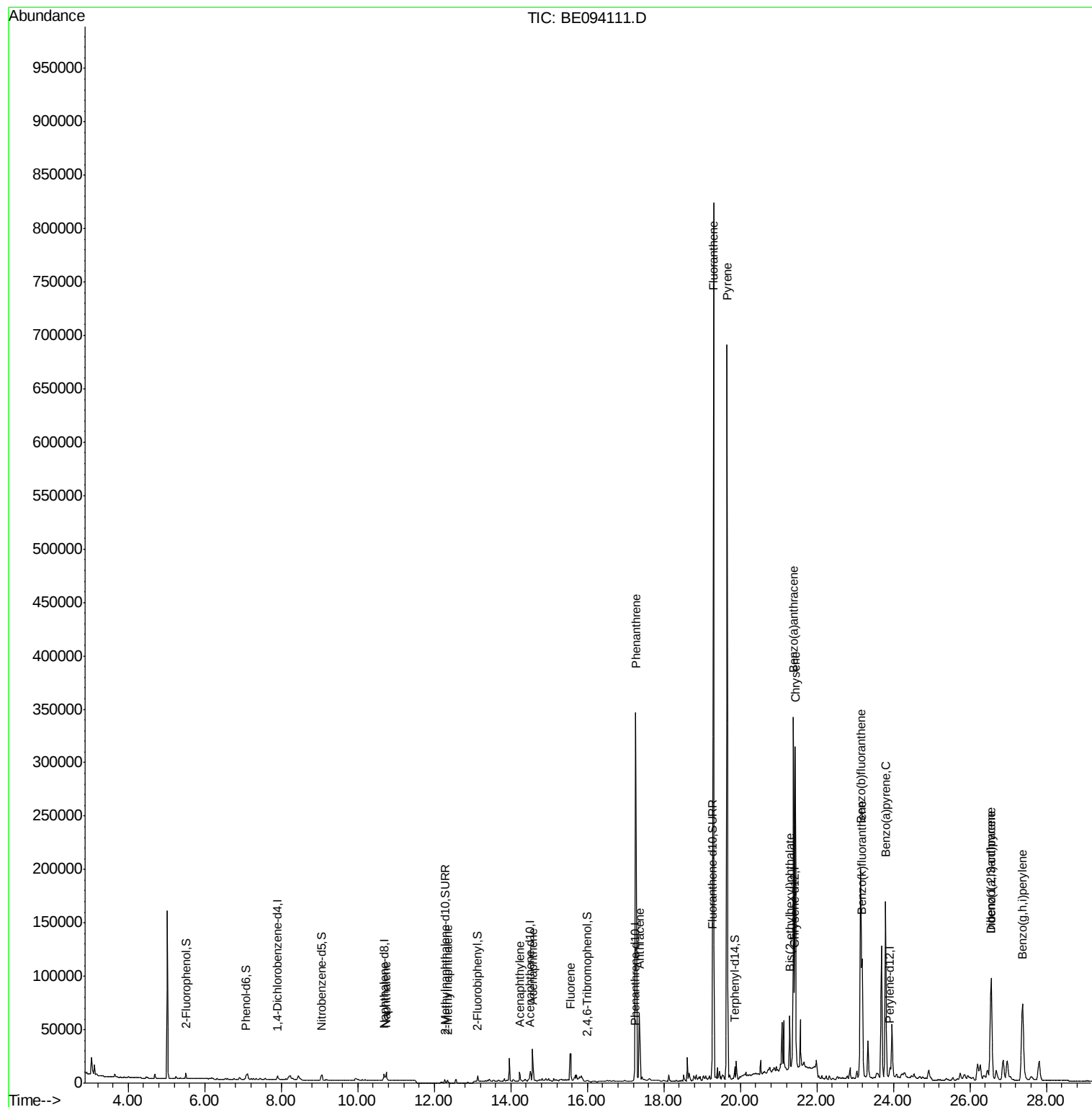
Data Path : Z:\HPCHEM1\BNA E\DATA\BE092517\
Data File : BE094111.D
Acq On : 25 Sep 2017 20:32
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ALS Vial : 5 Sample Multiplier: 1

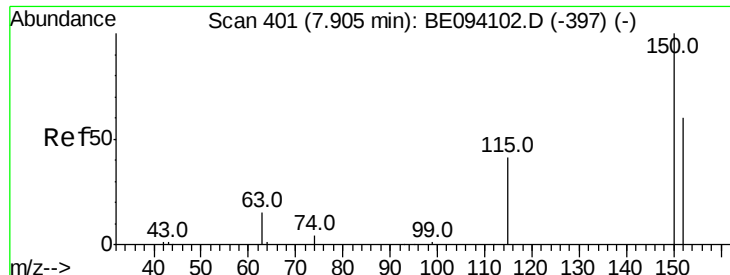
Instrument :
BNA_E
ClientSampleId :
LT-TS-012

Quant Time: Sep 26 02:48:14 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 25 17:37:08 2017
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#1

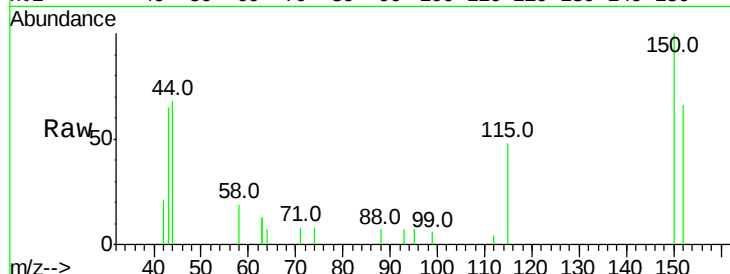
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.91 min Scan# 401
Delta R.T. 0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Instrument :
BNA_E
ClientSampleId :
LT-TS-012

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.9	117.2	175.8
115	73.6	57.0	85.6

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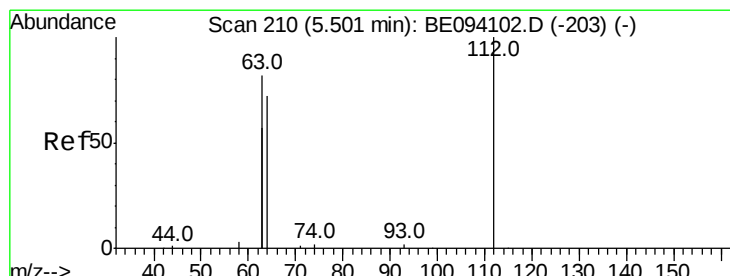
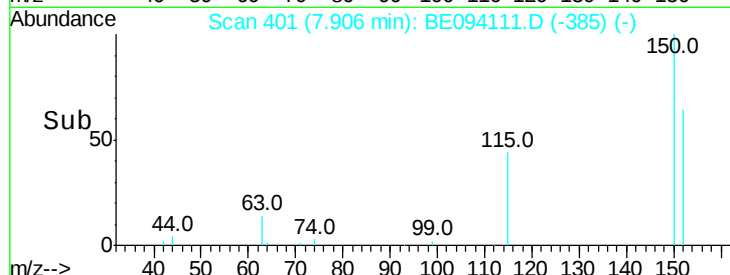
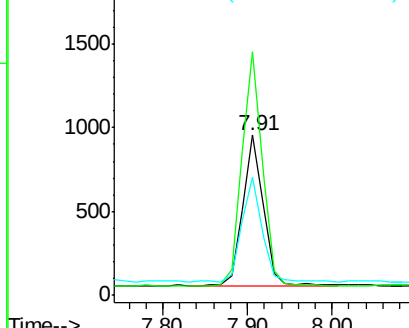


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

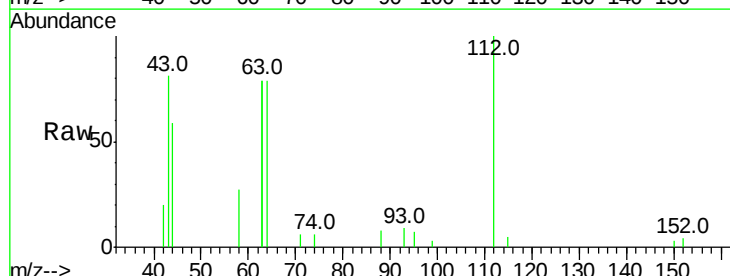
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.434 ng
RT: 5.50 min Scan# 210
Delta R.T. 0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	78.6	60.1	90.1
63	149.9	116.8	175.2

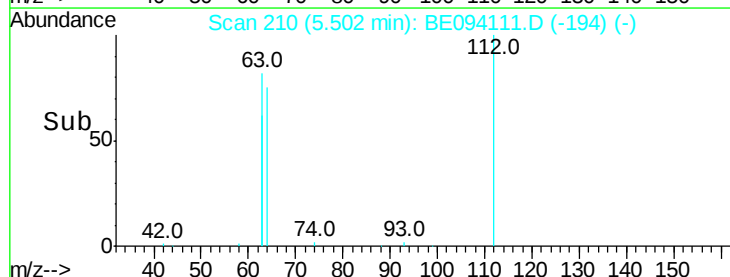
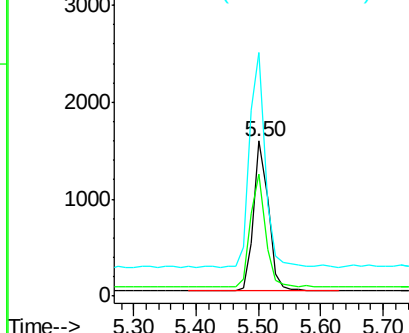


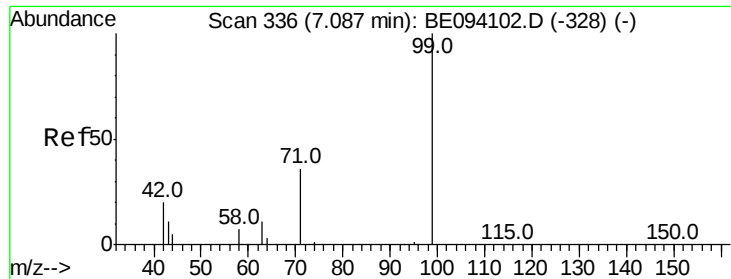
Abundance

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: 0.401 ng

RT: 7.09 min Scan# 336

Delta R.T. 0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Instrument :

BNA_E

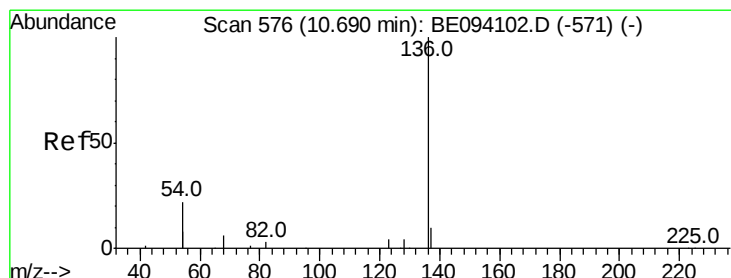
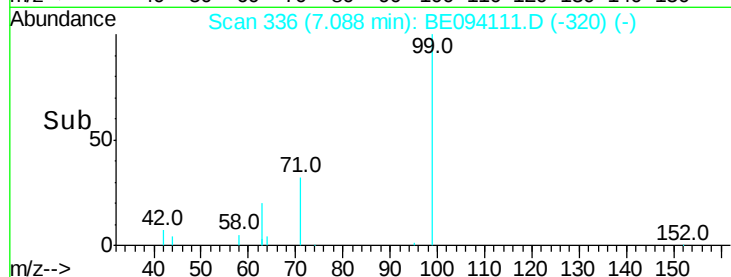
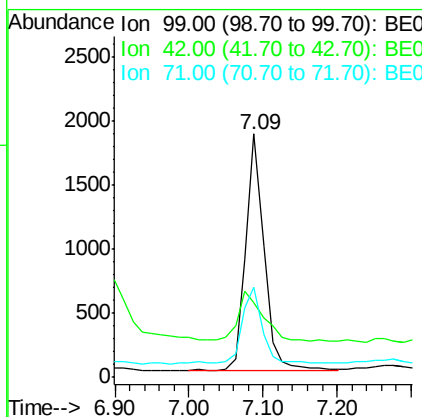
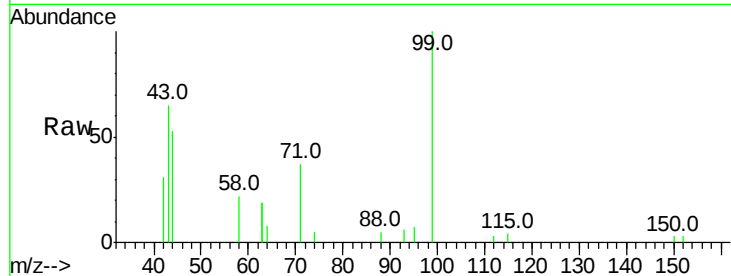
ClientSampled :

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Tot Ion:	99	Resp:	3190
Ion	Ratio	Lower	Upper
99	100		
42	28.3	20.2	30.2
71	33.6	28.4	42.6

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#7

Naphthalene-d8

Concen: 0.400 ng

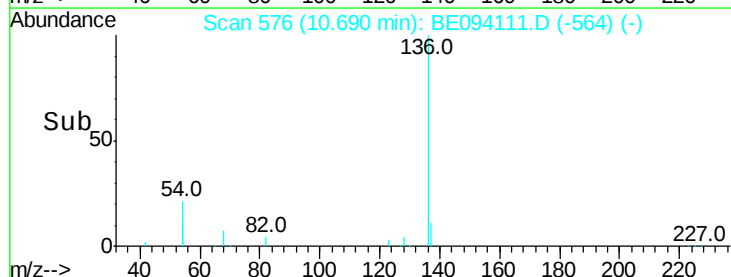
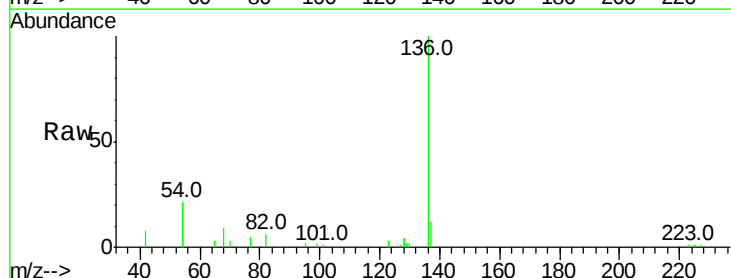
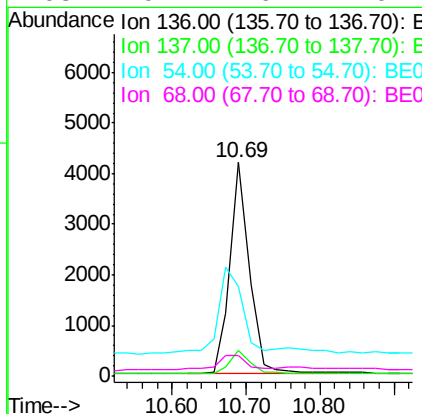
RT: 10.69 min Scan# 576

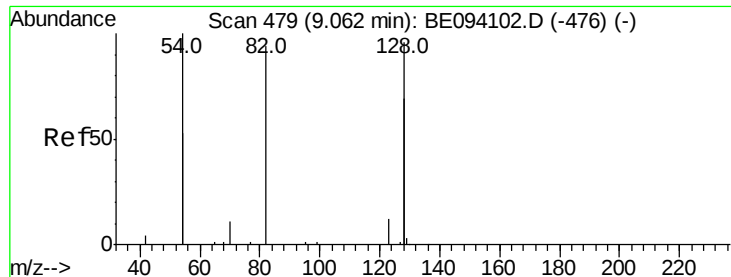
Delta R.T. -0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Tgt Ion:	136	Resp:	7573
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.5	14.3
54	42.2	29.1	43.7
68	9.4	6.2	9.2#





#8

Nitrobenzene-d5

Concen: 0.395 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Instrument :

BNA_E

ClientSampleId :

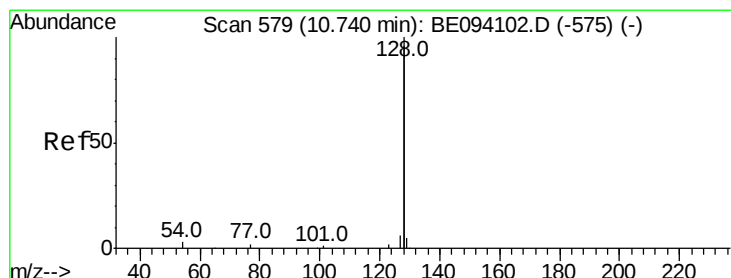
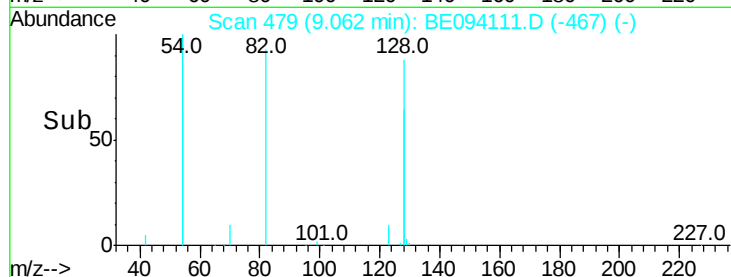
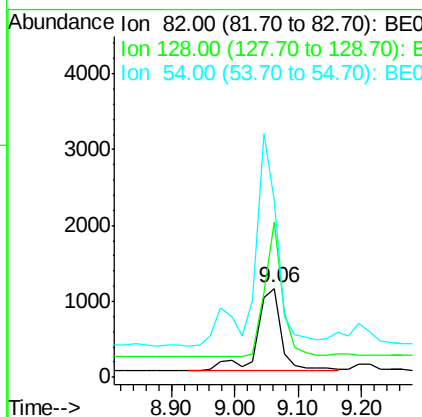
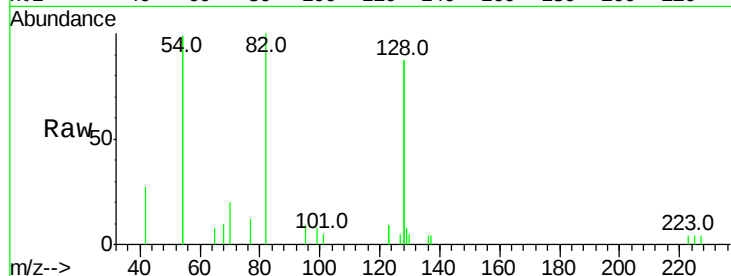
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Tot Ion:	82	Resp:	2895
Ion Ratio	Lower	Upper	
82	100		
128	174.1	150.0	225.0
54	198.6	154.2	231.4

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#9

Naphthalene

Concen: 0.144 ng

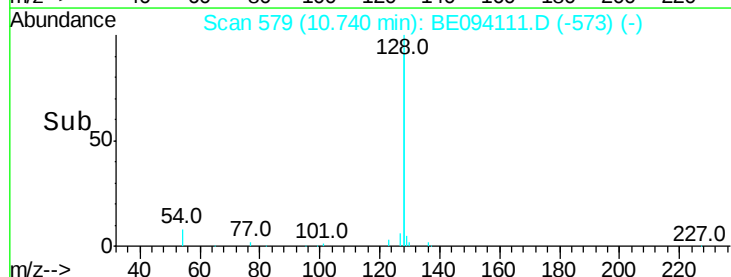
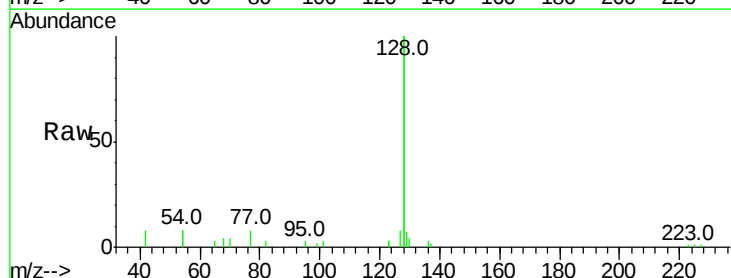
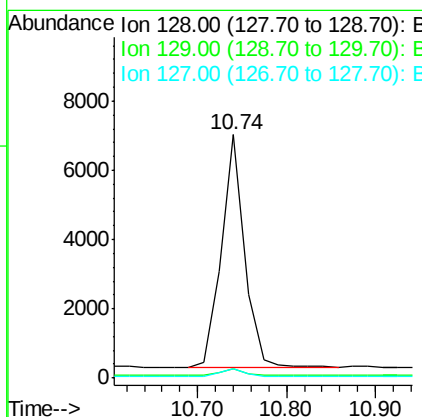
RT: 10.74 min Scan# 579

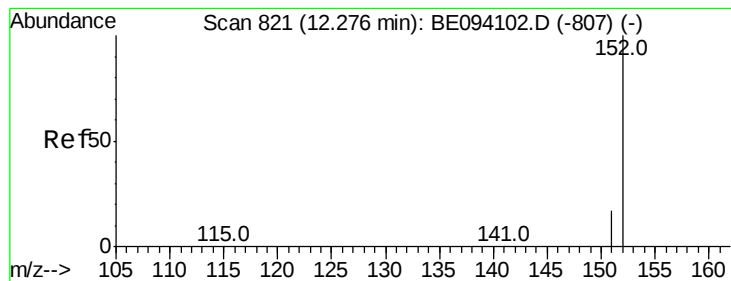
Delta R.T. -0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Tgt Ion:	128	Resp:	12287
Ion Ratio	Lower	Upper	
128	100		
129	3.6	2.6	3.8
127	3.9	2.8	4.2





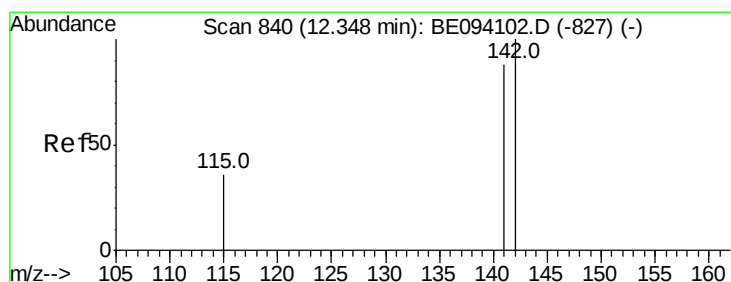
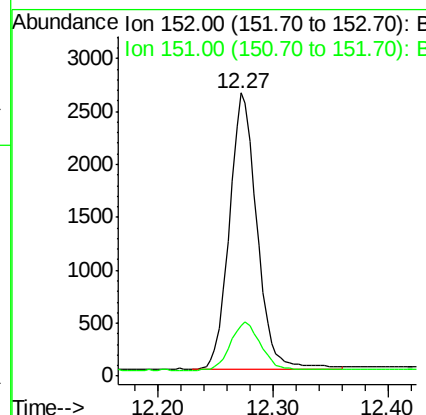
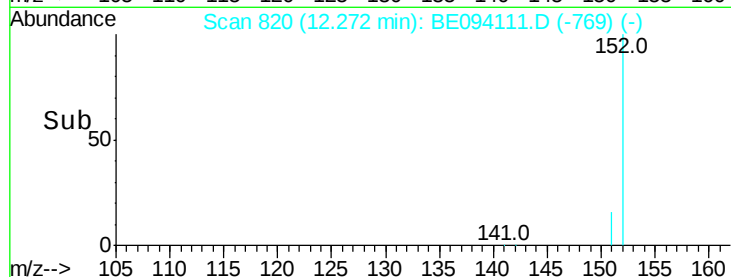
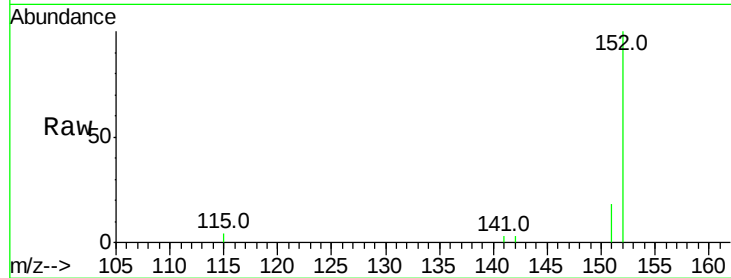
#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 12.27 min Scan# 820
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Instrument :
BNA_E
ClientSampleId :
LT-TS-012

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.4	23.0

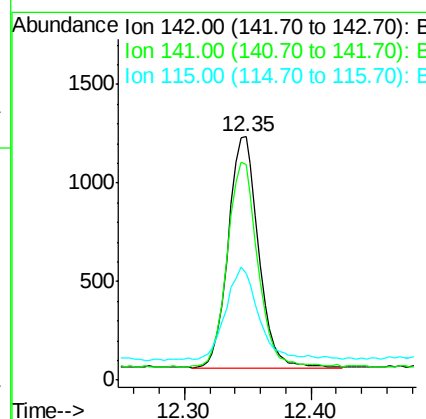
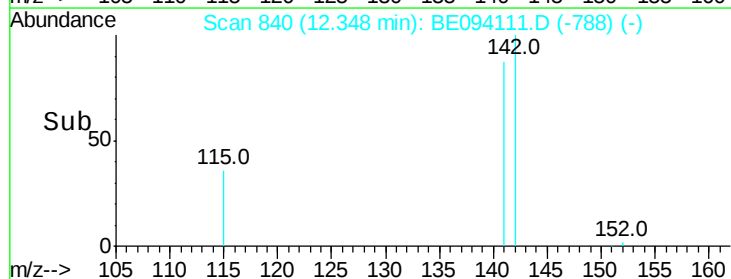
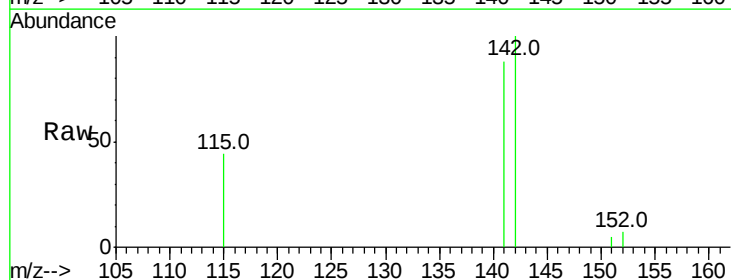
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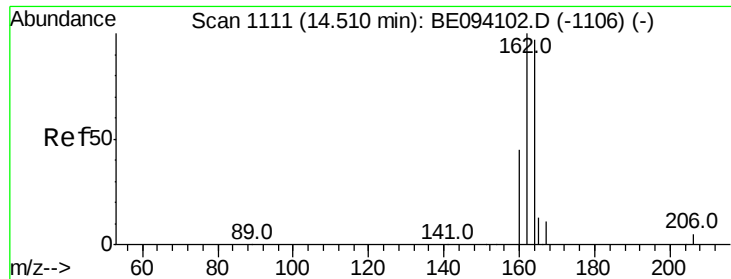
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#12
2-Methylnaphthalene
Concen: 0.141 ng
RT: 12.35 min Scan# 840
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.4	105.6
115	43.9	31.7	47.5





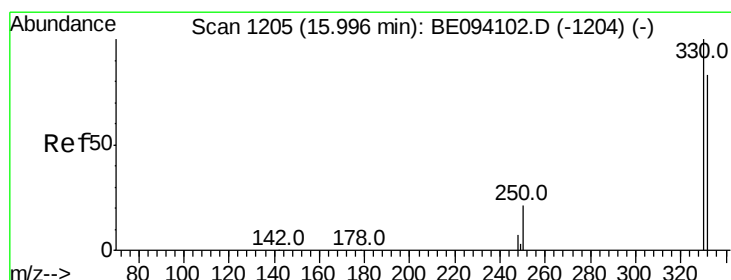
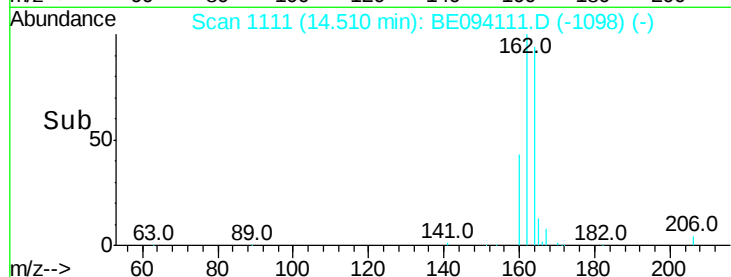
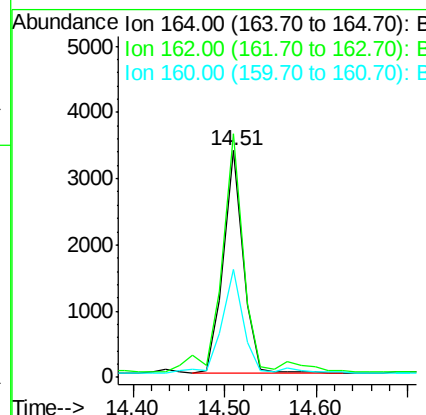
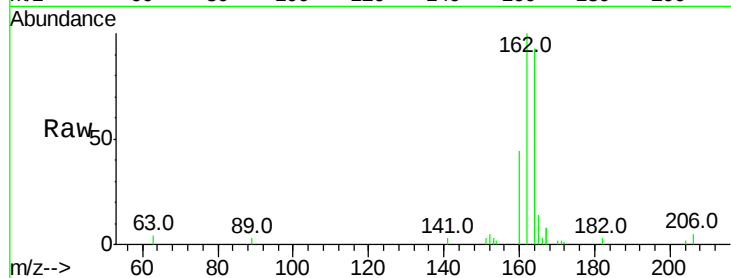
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.51 min Scan# 1111
 Delta R.T. -0.00 min
 Lab File: BE094111.D
 Acq: 25 Sep 2017 20:32

Instrument :
 BNA_E
 ClientSampled :
 LT-TS-012

Tot Ion	Ratio	Lower	Upper
164	100		
162	107.3	83.1	124.7
160	47.3	37.1	55.7

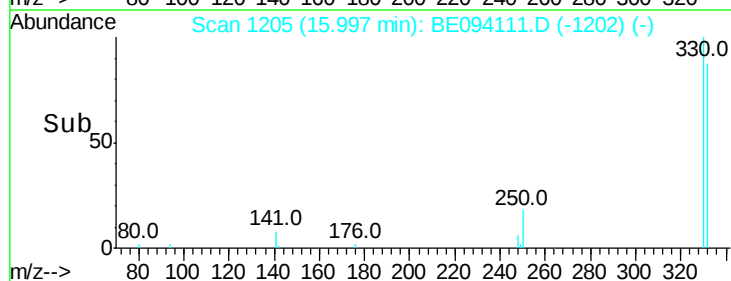
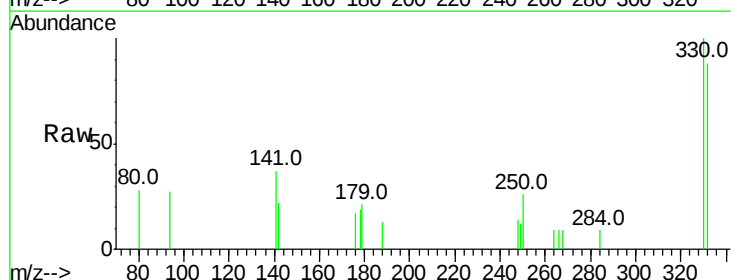
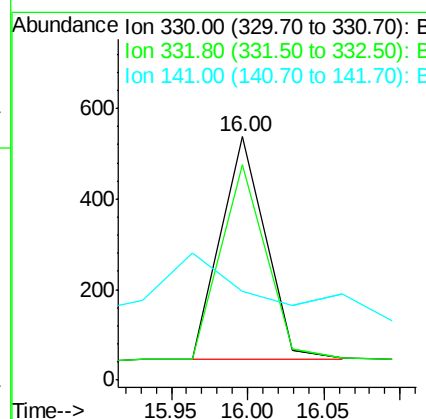
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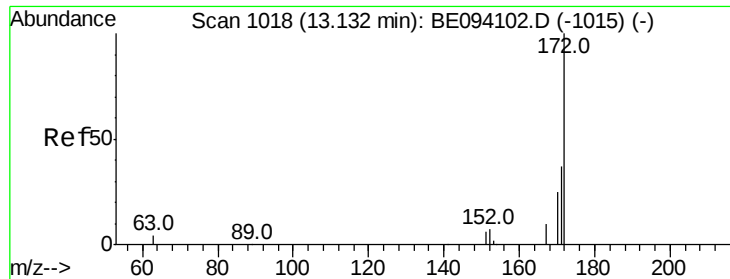
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#14
 2,4,6-Tribromophenol
 Concen: 0.347 ng
 RT: 16.00 min Scan# 1205
 Delta R.T. 0.00 min
 Lab File: BE094111.D
 Acq: 25 Sep 2017 20:32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	88.6	152.7	229.1#
141	0.0	33.7	50.5#





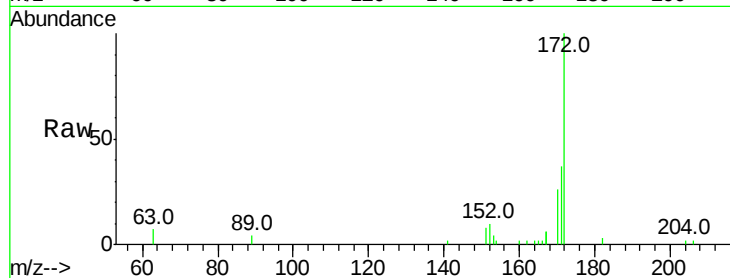
#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 13.13 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Instrument :
BNA_E
ClientSampleId :
LT-TS-012

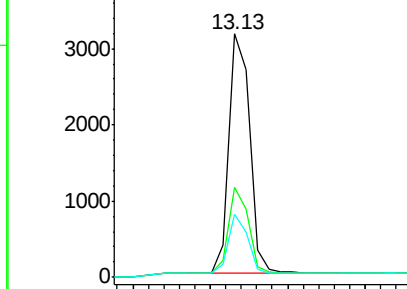
Tot Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.9	44.9
170	25.9	21.8	32.8

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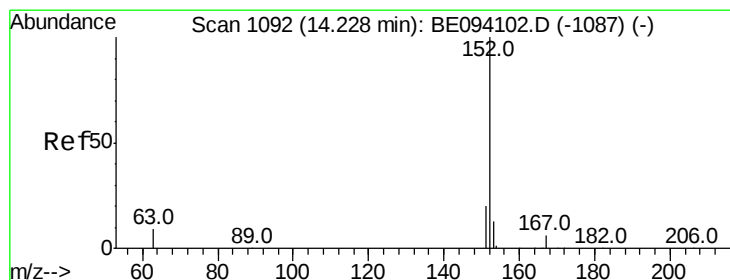
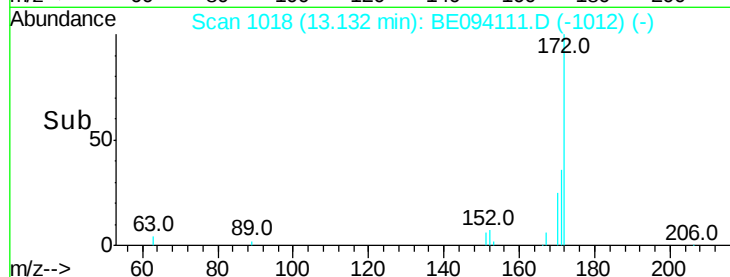
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Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



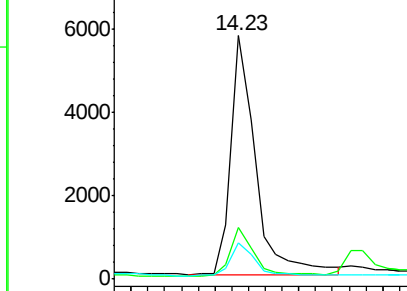
Time--> 13.00 13.10 13.20 13.30



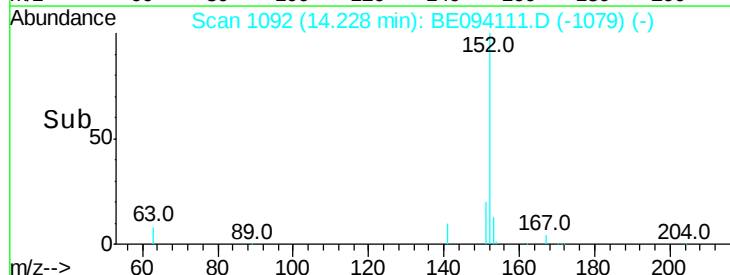
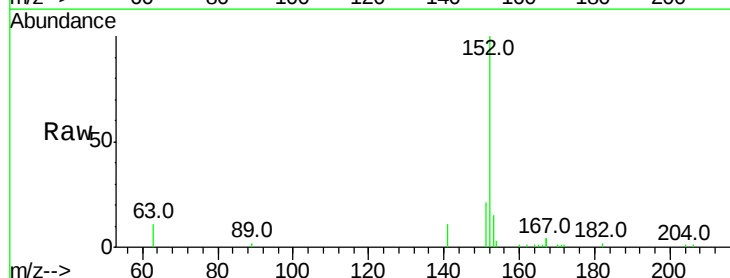
#16
Acenaphthylene
Concen: 0.467 ng
RT: 14.23 min Scan# 1092
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

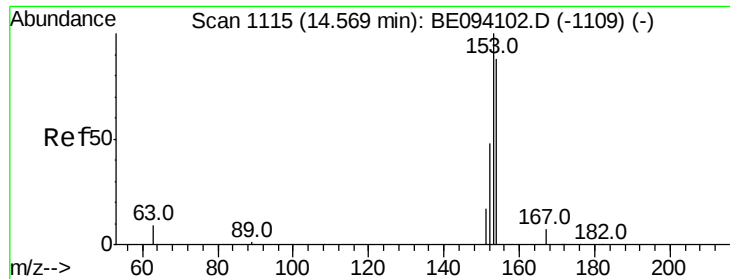
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.7	23.5
153	13.5	10.5	15.7

Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



Time--> 14.10 14.20 14.30 14.40





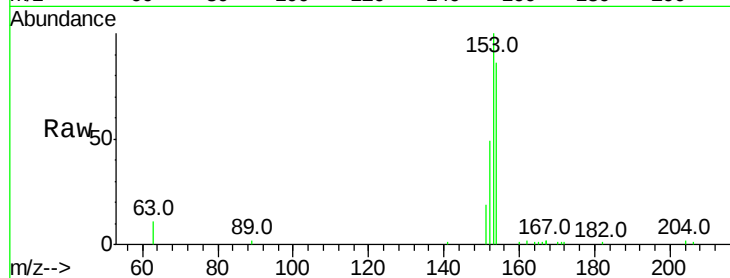
#17
Acenaphthene
Concen: 0.935 ng
RT: 14.57 min Scan# 1115
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Instrument :
BNA_E
ClientSampleId :
LT-TS-012

Tot Ion	Ratio	Lower	Upper
154	100		
153	114.7	89.2	133.8
152	55.7	42.0	63.0

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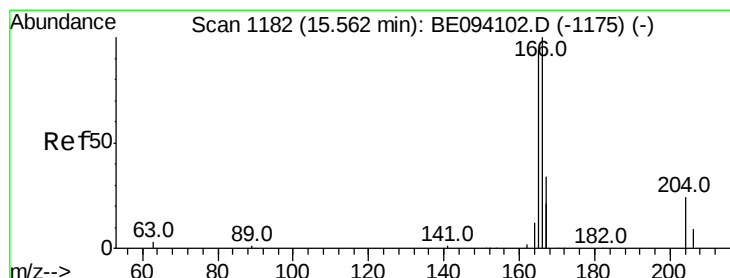
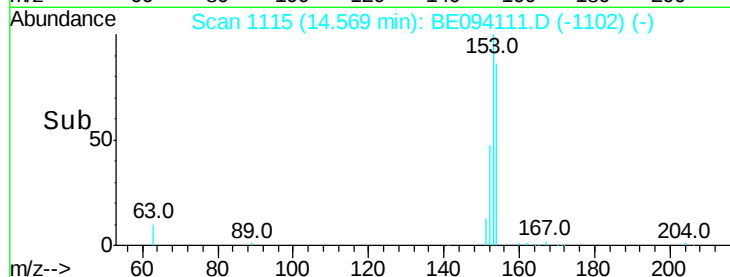
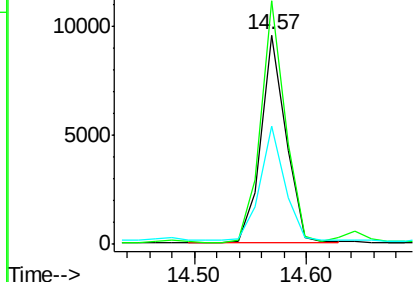


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 0.864 ng
RT: 15.56 min Scan# 1182
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

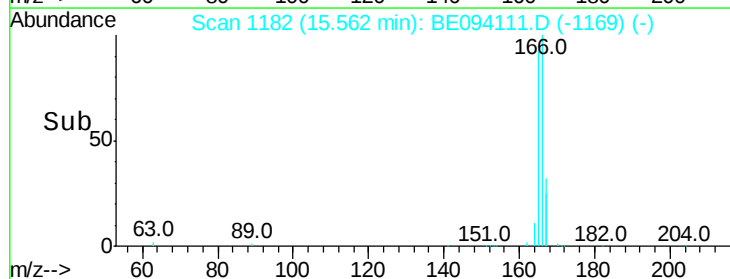
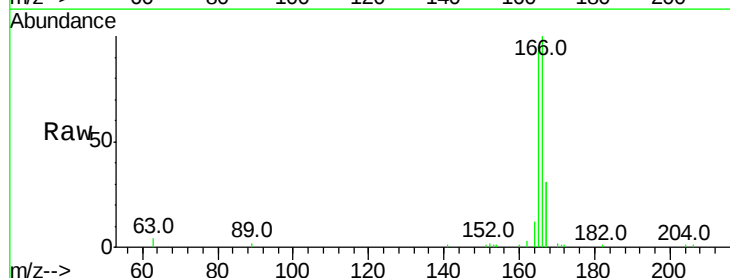
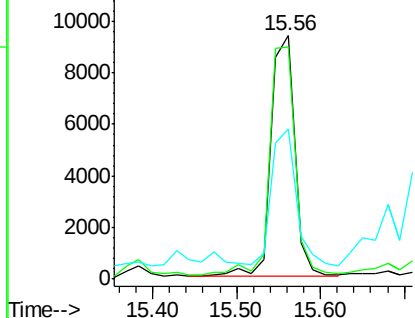
Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.7	77.8	116.6
167	59.0	42.4	63.6

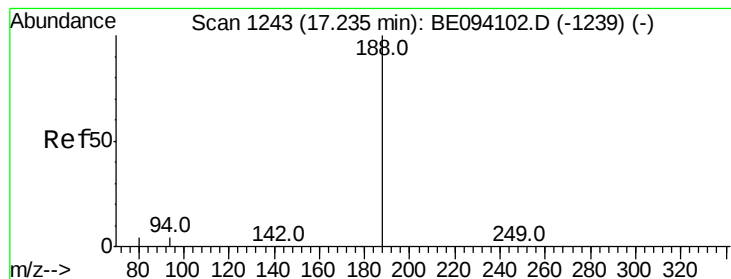
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.24 min Scan# 1243

Delta R.T. 0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Instrument :

BNA_E

ClientSampleId :

LT-TS-012

Tot Ion:188 Resp: 18428

Ion Ratio Lower Upper

188 100

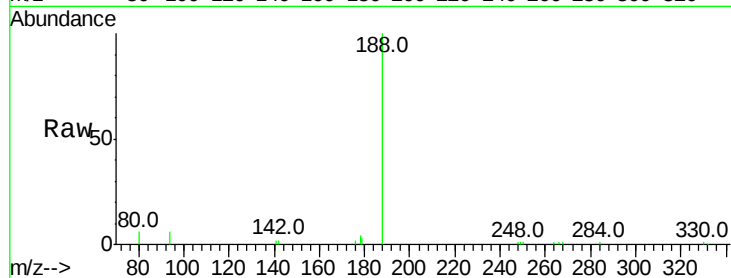
94 6.0 3.9 5.9#

80 5.6 3.6 5.4#

Manual Integrations
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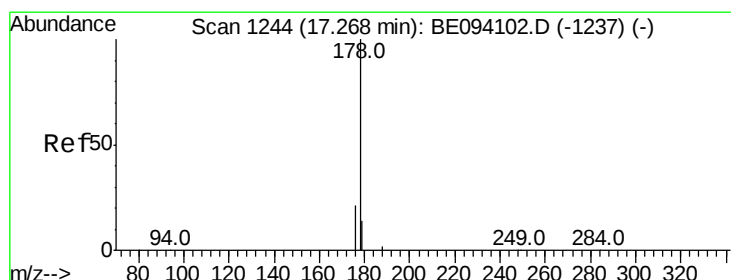
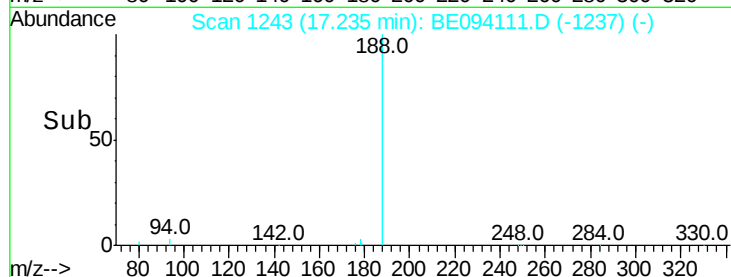
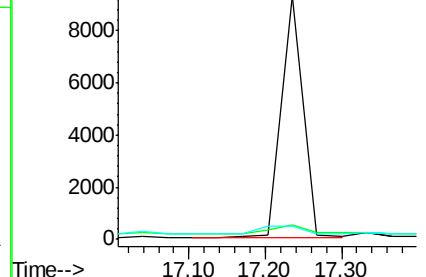
9/26/2017 5:03:45 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#23

Phenanthrene

Concen: 10.812 ng

RT: 17.27 min Scan# 1244

Delta R.T. 0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

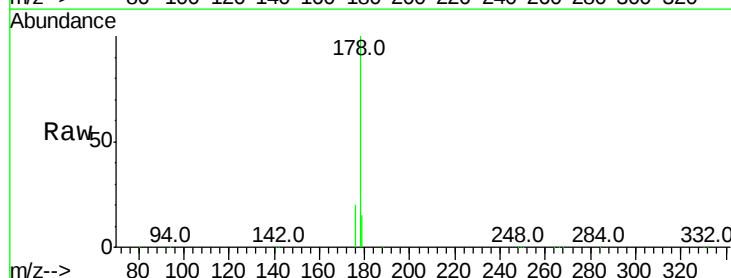
Tgt Ion:178 Resp: 509766

Ion Ratio Lower Upper

178 100

176 20.1 15.1 22.7

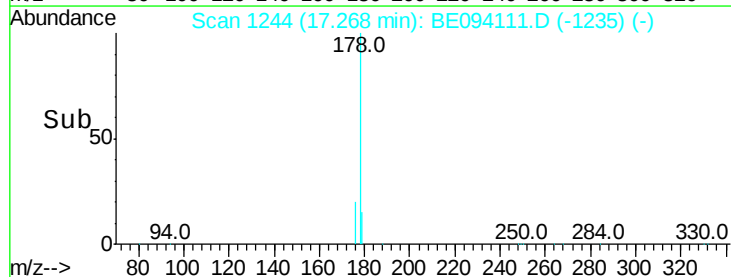
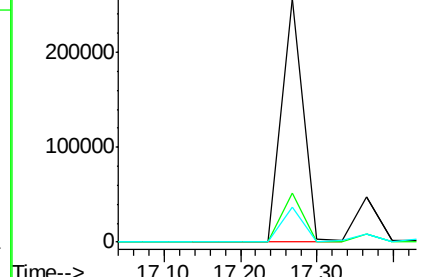
179 15.3 11.8 17.6

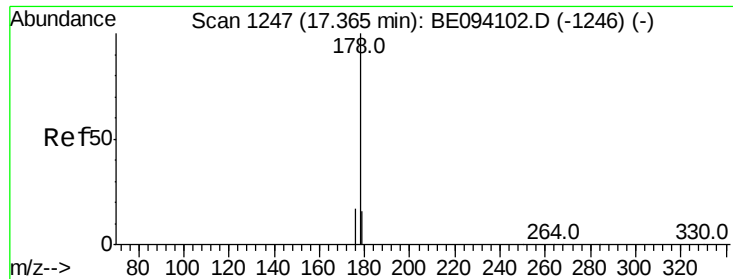


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 1.979 ng

RT: 17.37 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Instrument :

BNA_E

ClientSampleId :

LT-TS-012

Tot Ion:178 Resp: 97888

Ion Ratio Lower Upper

178 100

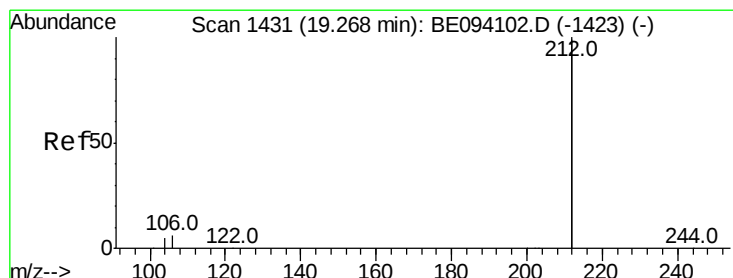
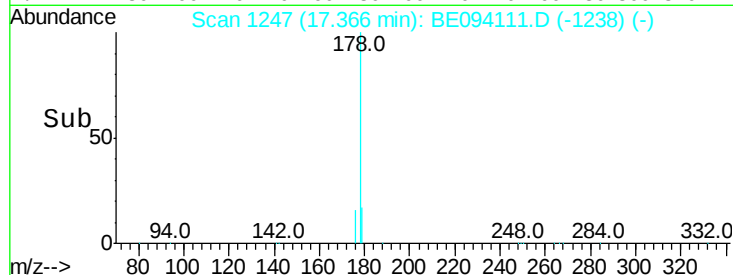
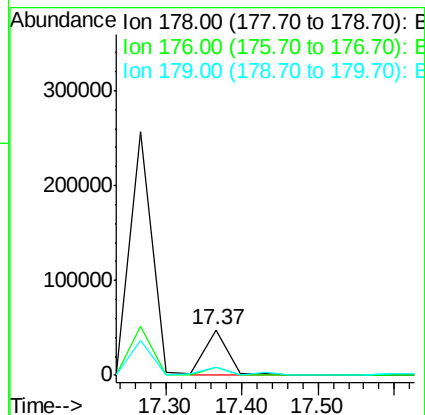
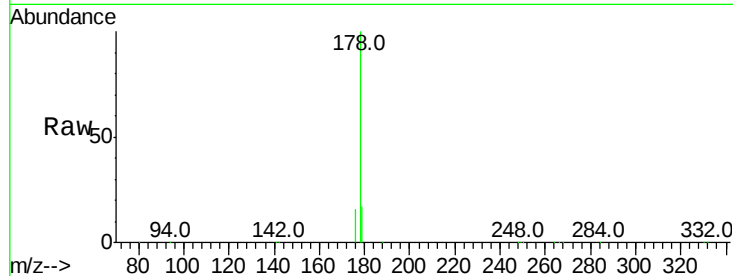
176 16.2 12.8 19.2

179 22.1 13.0 19.6#

Manual Integrations
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Sohil

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#25

Fluoranthene-d10

Concen: 0.345 ng

RT: 19.27 min Scan# 1431

Delta R.T. -0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

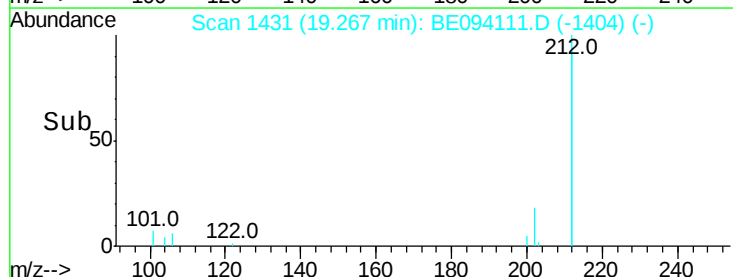
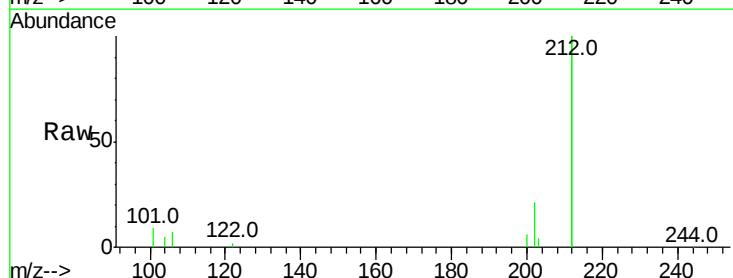
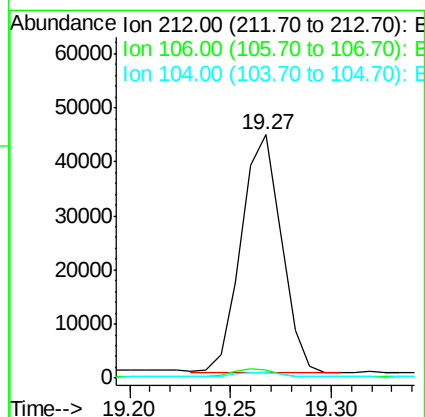
Tgt Ion:212 Resp: 61536

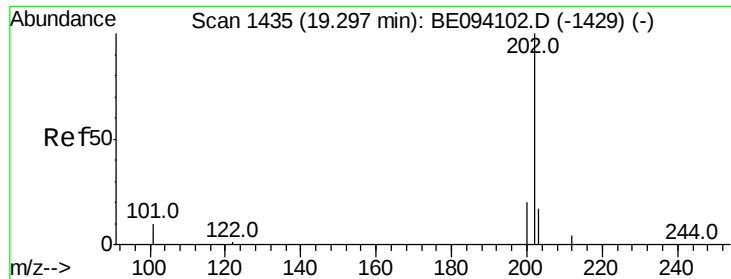
Ion Ratio Lower Upper

212 100

106 3.6 2.8 4.2

104 2.8 1.6 2.4#





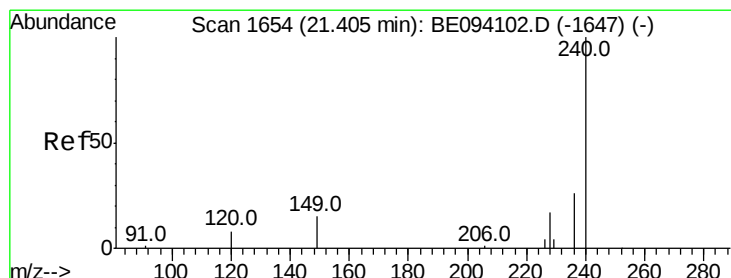
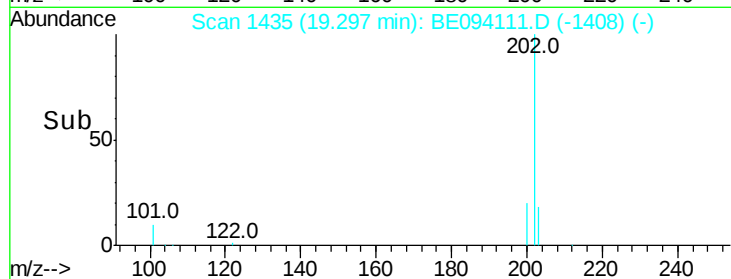
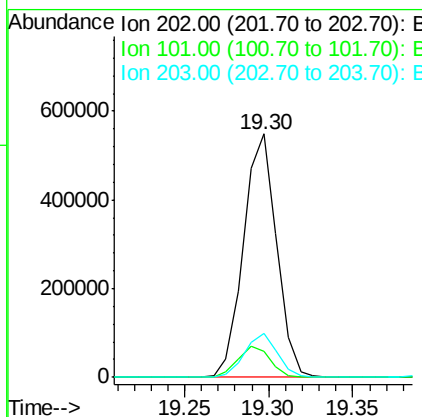
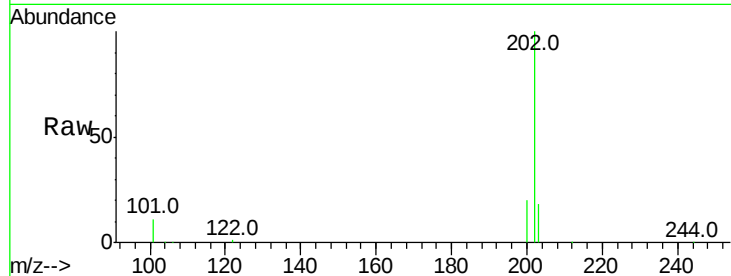
#26
 Fluoranthene
 Concen: 14.187 ng
 RT: 19.30 min Scan# 1435
 Delta R.T. -0.00 min
 Lab File: BE094111.D
 Acq: 25 Sep 2017 20:32

Instrument :
 BNA_E
 ClientSampleId :
 LT-TS-012

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.4	9.8	14.8
203	17.7	13.7	20.5

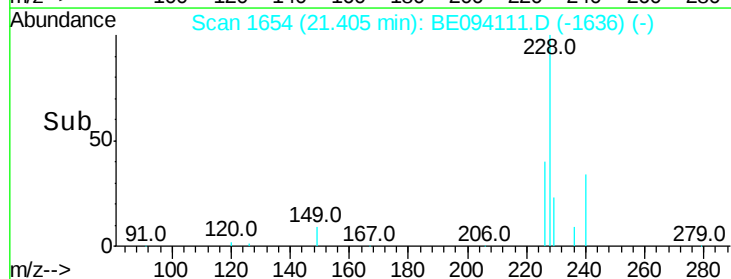
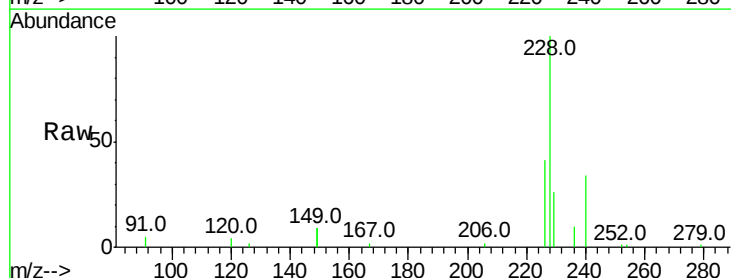
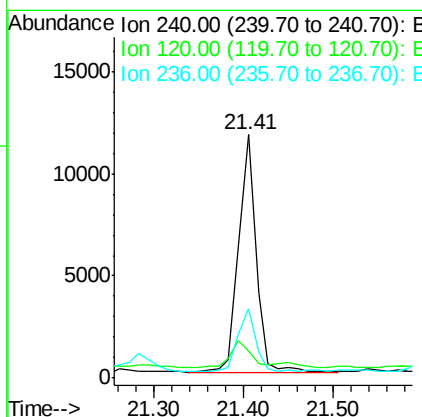
Manual Integrations
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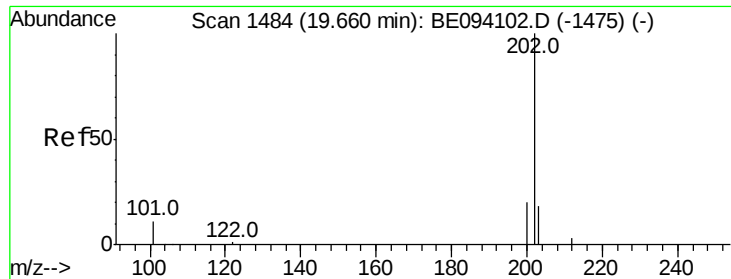
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.41 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: BE094111.D
 Acq: 25 Sep 2017 20:32

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	11.0	5.5	8.3#
236	28.5	20.7	31.1





#28

Pvrene

Concen: 13.305 ng

RT: 19.66 min Scan# 1484

Delta R.T. -0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Instrument :

BNA_E

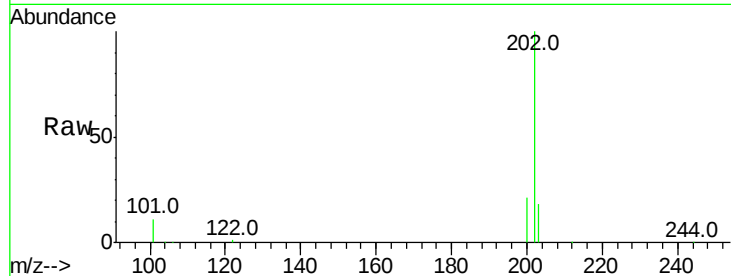
ClientSampleId :

LT-TS-012

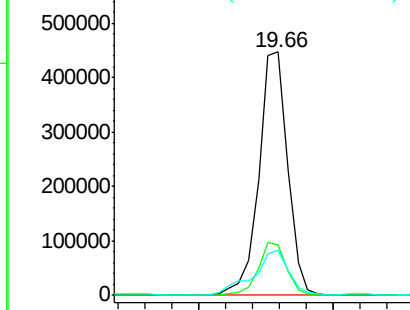
Tot Ion:	202	Resp:	666907
Ion Ratio	Lower	Upper	
202	100		
200	21.3	16.6	25.0
203	22.8	13.8	20.8

Manual Integrations
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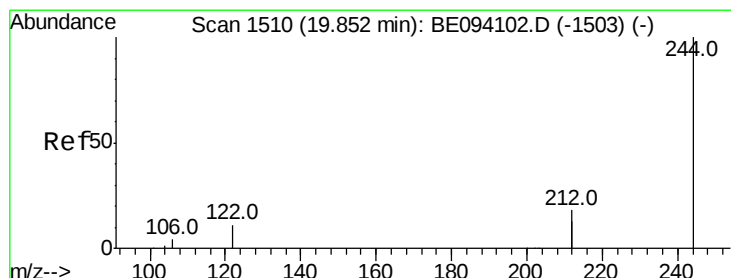
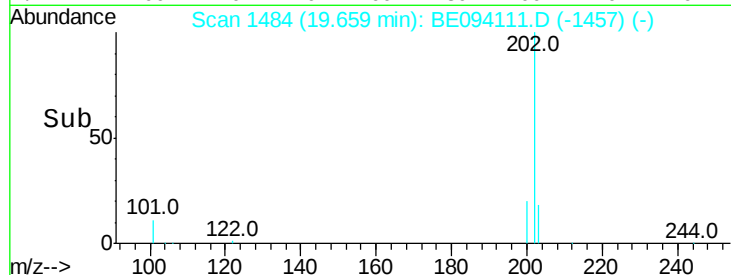
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#29

Terphenyl-d14

Concen: 0.338 ng

RT: 19.85 min Scan# 1510

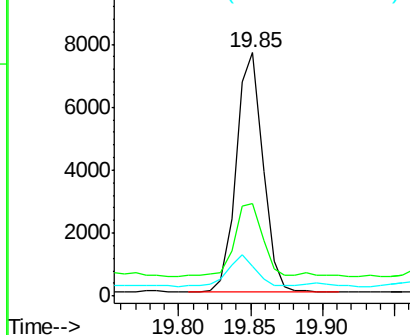
Delta R.T. -0.00 min

Lab File: BE094111.D

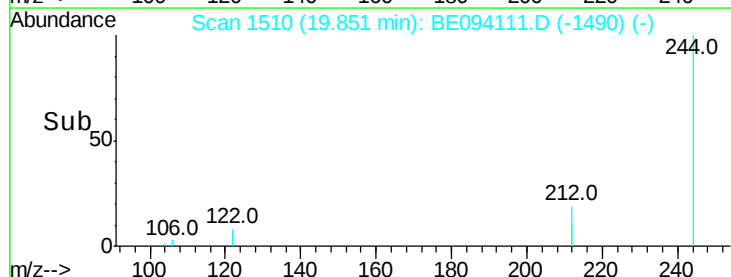
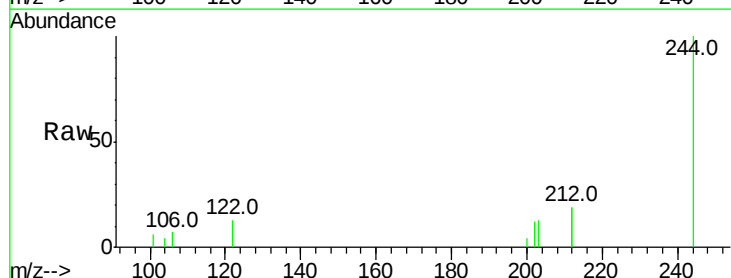
Acq: 25 Sep 2017 20:32

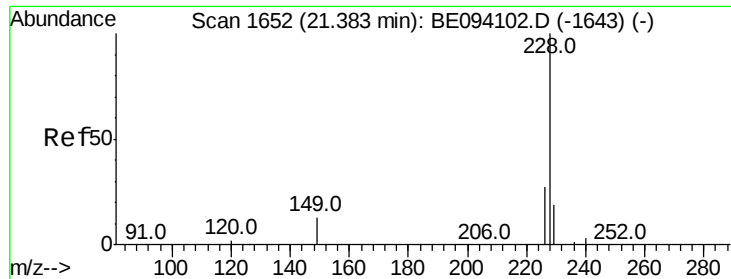
Tgt Ion:	244	Resp:	9743
Ion Ratio	Lower	Upper	
244	100		
212	38.2	25.4	38.0
122	12.5	8.1	12.1

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->





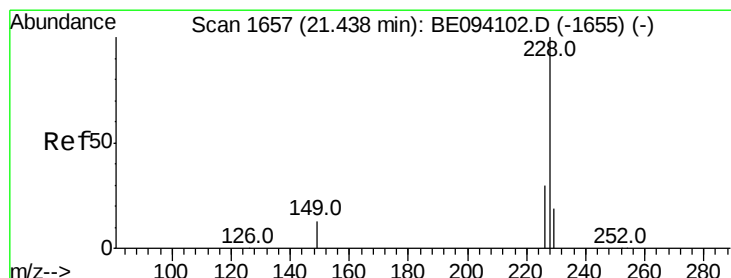
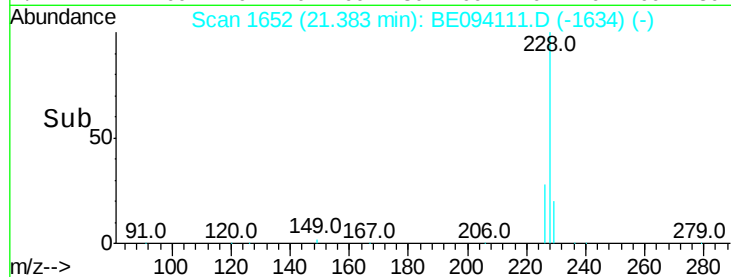
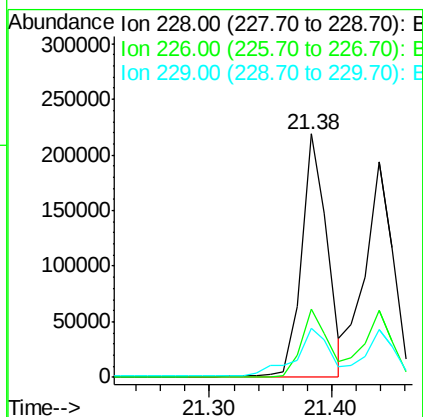
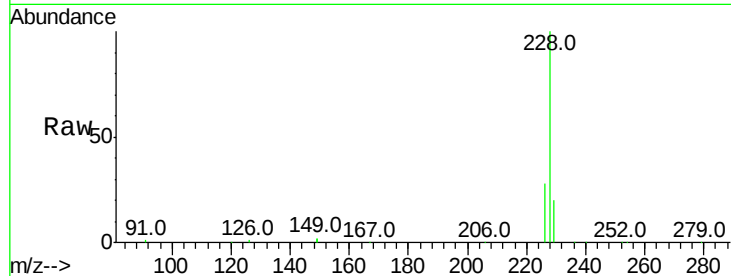
#30
Benzo(a)anthracene
Concen: 5.901 ng
RT: 21.38 min Scan# 1652
Delta R.T. 0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Instrument :
BNA_E
ClientSampled :
LT-TS-012

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	21.4	32.0
229	20.4	16.4	24.6

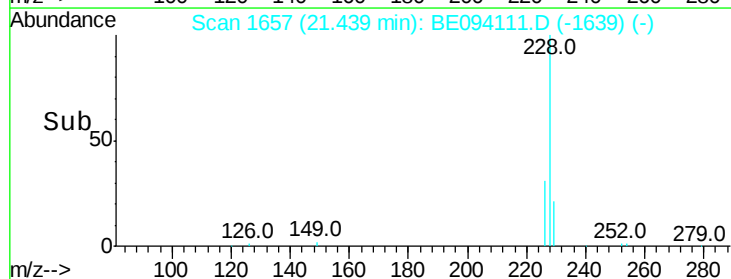
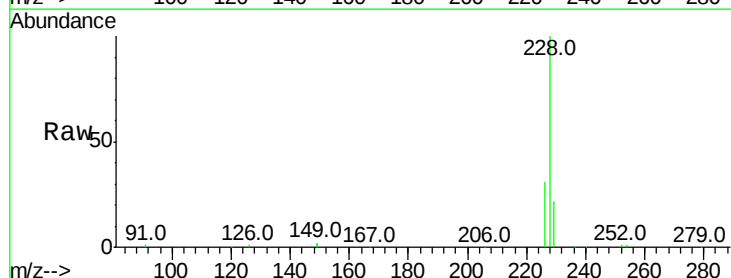
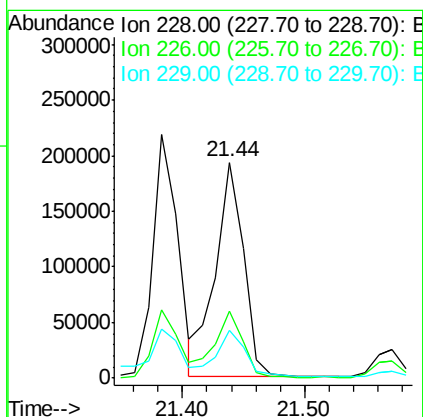
Manual Integrations
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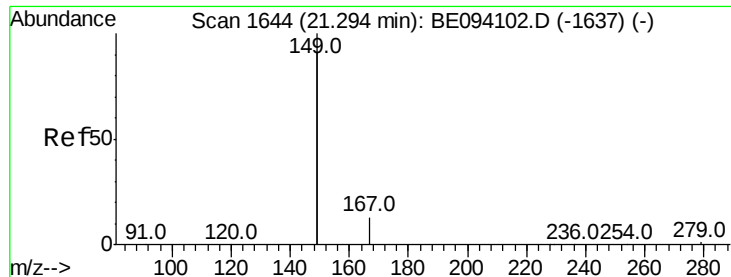
Sohil
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#31
Chrysene
Concen: 6.013 ng
RT: 21.44 min Scan# 1657
Delta R.T. 0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.6	35.4
229	21.9	16.4	24.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.184 ng

RT: 21.29 min Scan# 1644

Delta R.T. 0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Instrument :

BNA_E

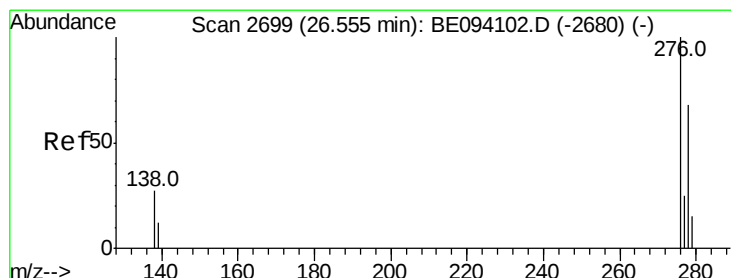
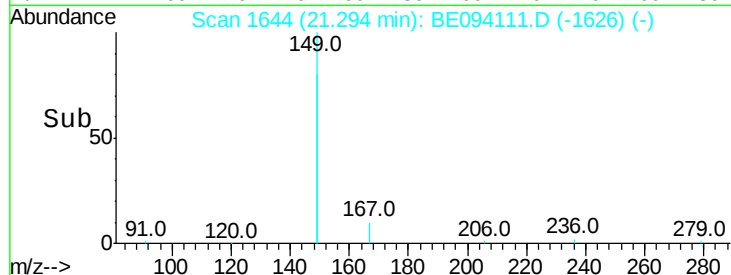
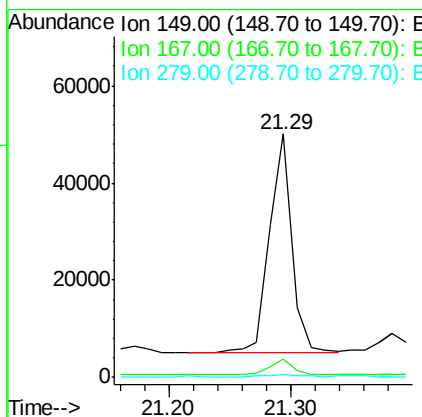
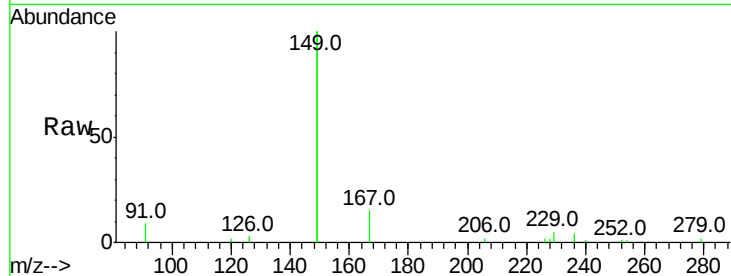
ClientSampleId :

LT-TS-012

Tot Ion:	149	Resp:	57369
Ion Ratio	Lower	Upper	
149	100		
167	7.5	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: 3.244 ng

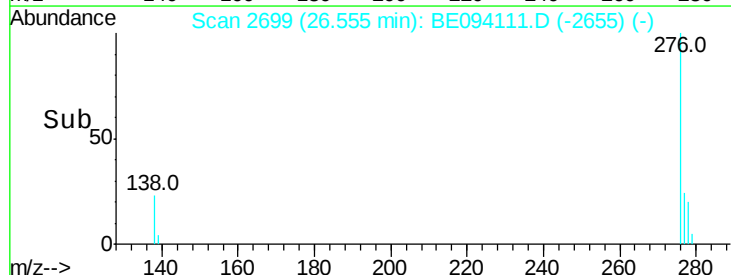
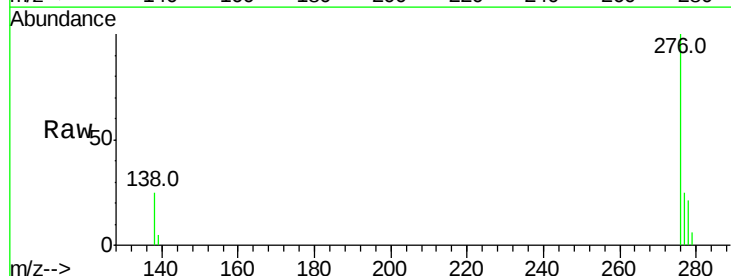
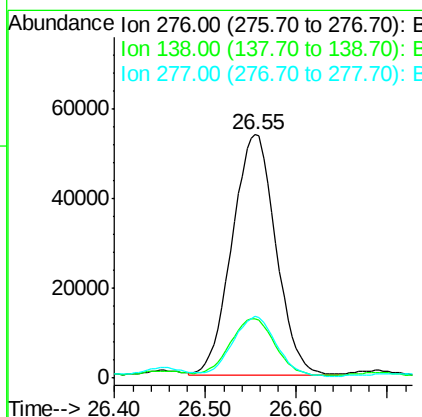
RT: 26.55 min Scan# 2699

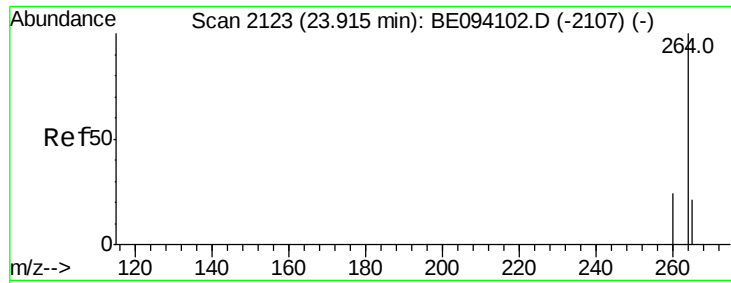
Delta R.T. -0.00 min

Lab File: BE094111.D

Acq: 25 Sep 2017 20:32

Tgt Ion:	276	Resp:	178483
Ion Ratio	Lower	Upper	
276	100		
138	23.9	22.5	33.7
277	24.5	19.9	29.9





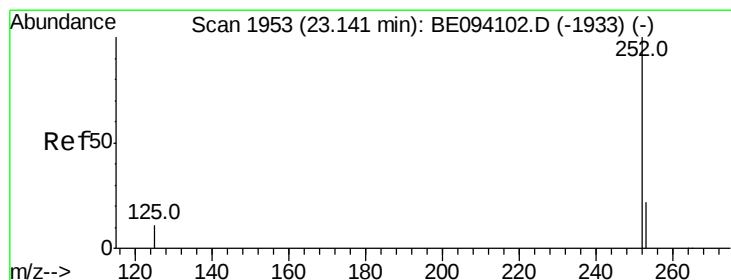
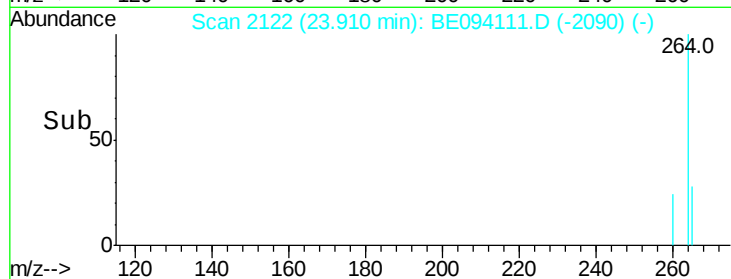
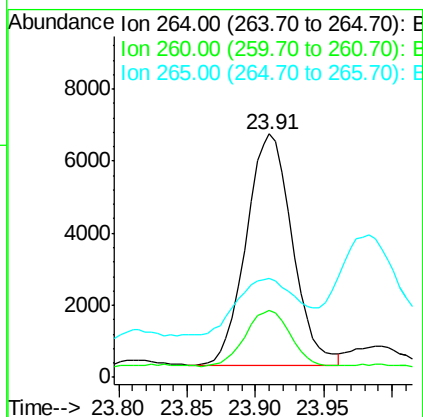
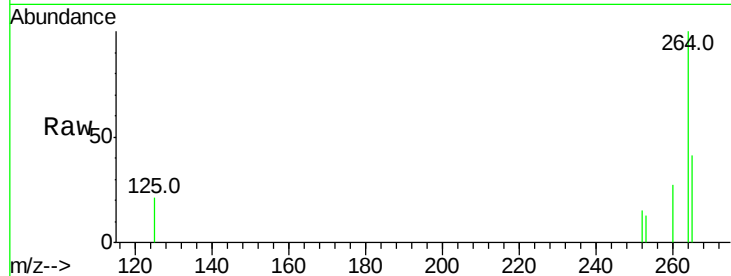
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.91 min Scan# 2122
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Instrument :
BNA_E
ClientSampleId :
LT-TS-012

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	27.3	20.5	30.7	
265	40.6	22.8	34.2	

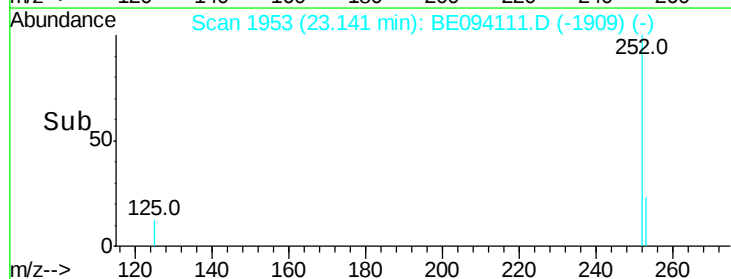
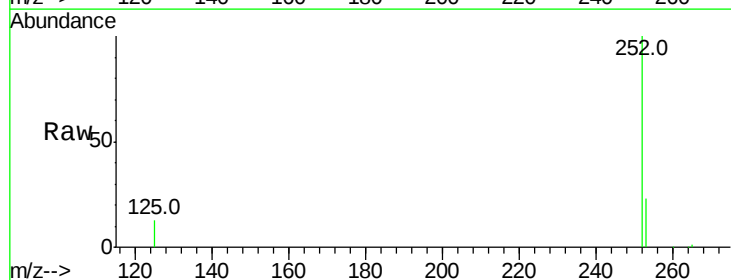
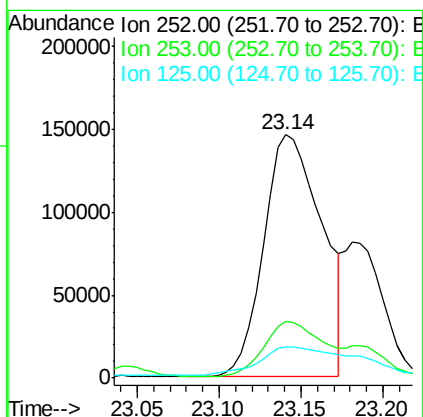
Manual Integrations
APPROVED

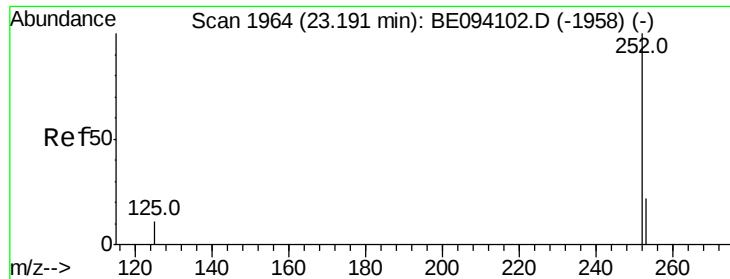
Sohil
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#35
Benzo(b)fluoranthene
Concen: 6.644 ng
RT: 23.14 min Scan# 1953
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.3	18.2	27.2	
125	12.7	10.1	15.1	





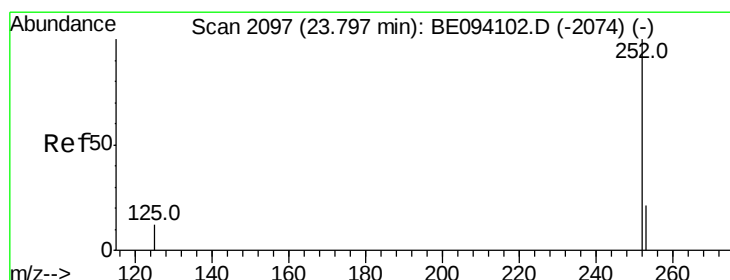
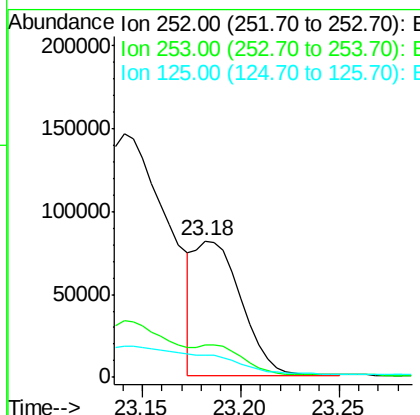
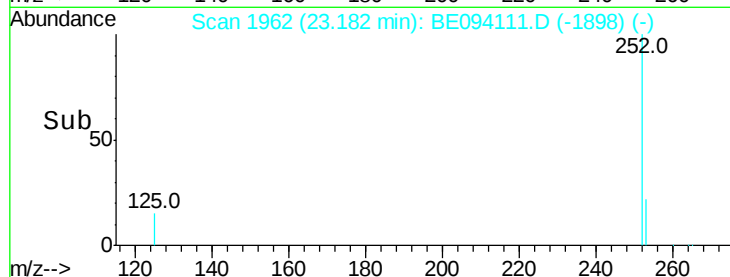
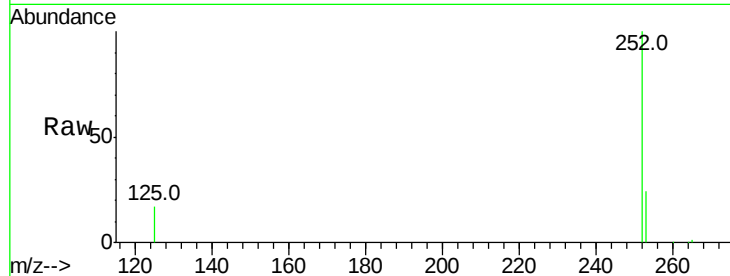
#36
Benzo(k)fluoranthene
Concen: 2.614 ng m
RT: 23.18 min Scan# 1962
Delta R.T. -0.01 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Instrument :
BNA_E
ClientSampleId :
LT-TS-012

Tot Ion	Ratio	Resp	Lower	Upper
252	100	135801		
253	23.7	18.6	27.8	
125	16.5	10.7	16.1	

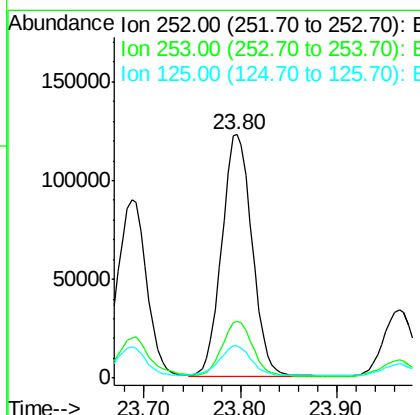
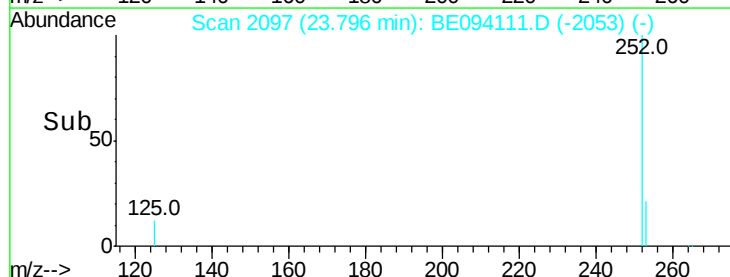
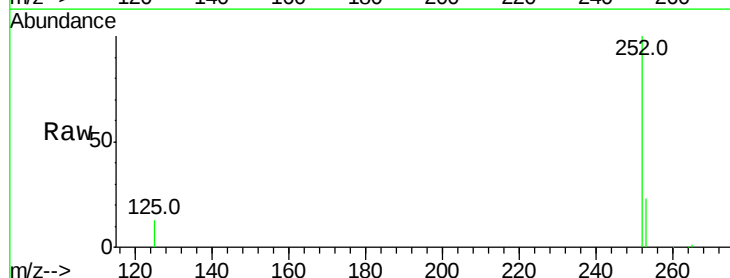
Manual Integrations
APPROVED

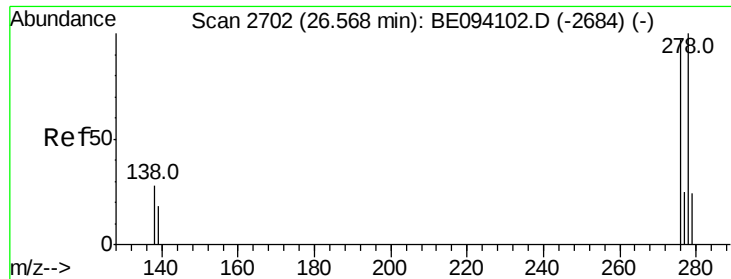
Sohil
9/26/2017 5:03:45 PM



#37
Benzo(a)pyrene
Concen: 5.438 ng
RT: 23.80 min Scan# 2097
Delta R.T. -0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	266593		
253	23.3	19.0	28.6	
125	13.3	11.8	17.8	





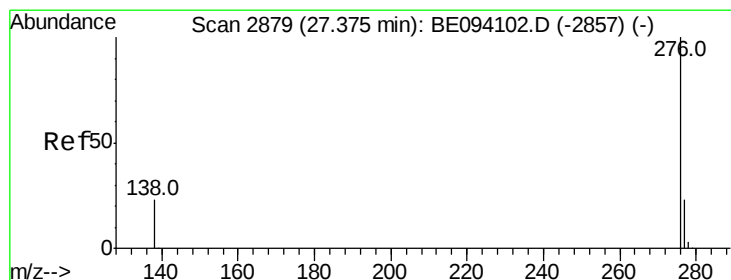
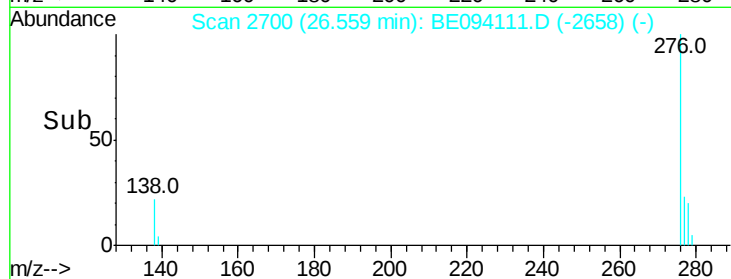
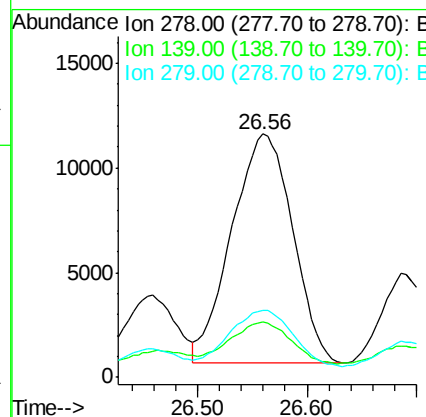
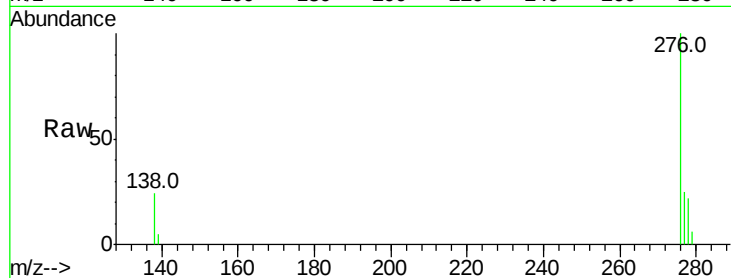
#38
Dibenzo(a,h)anthracene
Concen: 0.916 ng
RT: 26.56 min Scan# 2700
Delta R.T. -0.01 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Instrument :
BNA_E
ClientSampleId :
LT-TS-012

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.7	16.3	24.5
279	27.5	19.9	29.9

Manual Integrations
APPROVED

Sohil
9/26/2017 5:03:45 PM



#39
Benzo(g,h,i)perylene
Concen: 3.878 ng
RT: 27.38 min Scan# 2880
Delta R.T. 0.00 min
Lab File: BE094111.D
Acq: 25 Sep 2017 20:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	20.8	31.2
138	24.7	21.5	32.3

