

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092517\
 Data File : BE094114.D
 Acq On : 25 Sep 2017 22:22
 Operator : SJ/JU
 Sample : I5340-09
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LT-TS-009

Manual Integrations
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Quant Time: Sep 26 02:57:59 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	1584	0.40	ng	0.00
7) Naphthalene-d8	10.69	136	7616	0.40	ng	0.00
13) Acenaphthene-d10	14.51	164	4969	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	18688	0.40	ng	0.00
27) Chrysene-d12	21.40	240	16016	0.40	ng	0.00
34) Perylene-d12	23.91	264	15015	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.50	112	1180	0.20	ng	0.00
5) Phenol-d6	7.09	99	1843	0.22	ng	0.00
8) Nitrobenzene-d5	9.06	82	1453	0.20	ng	0.00
11) 2-Methylnaphthalene-d10	12.27	152	1850	0.16	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	348	0.09	ng	0.00
15) 2-Fluorobiphenyl	13.13	172	2271	0.14	ng	0.00
25) Fluoranthene-d10	19.27	212	21154	0.12	ng	0.00
29) Terphenyl-d14	19.85	244	3164	0.11	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.74	128	1056	0.012	ng	# 82
12) 2-Methylnaphthalene	12.35	142	156	0.011	ng	# 70
16) Acenaphthylene	14.23	152	3280	0.132	ng	98
17) Acenaphthene	14.57	154	669	0.043	ng	96
18) Fluorene	15.56	166	988m	0.047	ng	
23) Phenanthrene	17.27	178	38833	0.812	ng	98
24) Anthracene	17.37	178	5296	0.106	ng	# 94
26) Fluoranthene	19.29	202	87327	1.630	ng	99
28) Pyrene	19.65	202	85336	1.682	ng	# 96
30) Benzo(a)anthracene	21.38	228	39806	0.738	ng	98
31) Chrysene	21.44	228	46588	0.895	ng	97
33) Indeno(1,2,3-cd)pyrene	26.54	276	25505	0.458	ng	96
35) Benzo(b)fluoranthene	23.14	252	56691	1.046	ng	97
36) Benzo(k)fluoranthene	23.18	252	18891m	0.364	ng	
37) Benzo(a)pyrene	23.79	252	39137	0.799	ng	99
38) Dibenzo(a,h)anthracene	26.56	278	6314	0.136	ng	# 76
39) Benzo(a,h,i)perylene	27.37	276	25610	0.558	ng	100

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

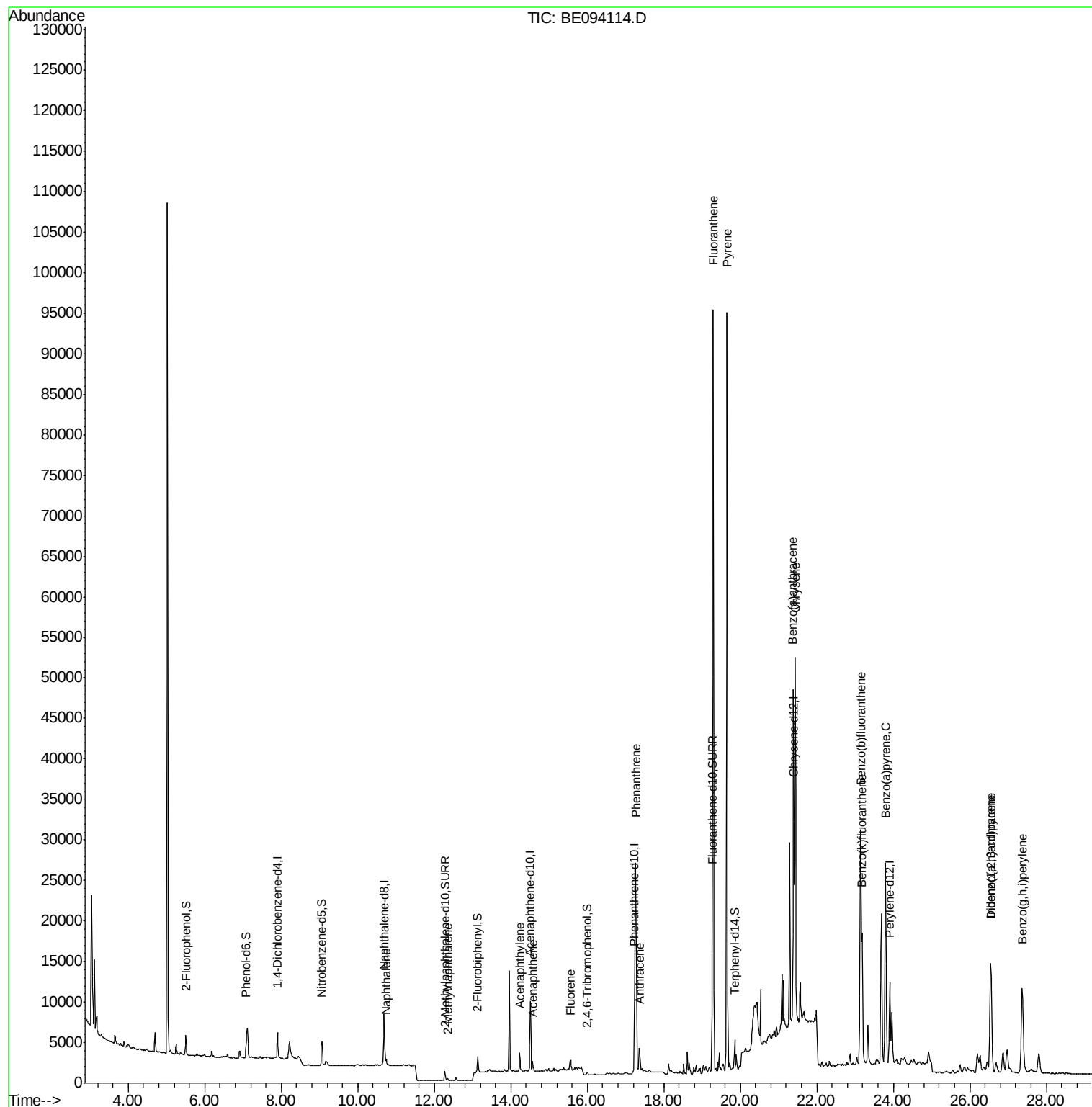
Data Path : Z:\HPCHEM1\BNA E\DATA\BE092517\
Data File : BE094114.D
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Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092517.M
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#1

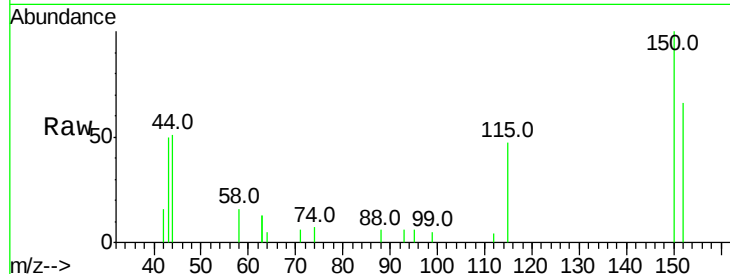
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.91 min Scan# 401
Delta R.T. 0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

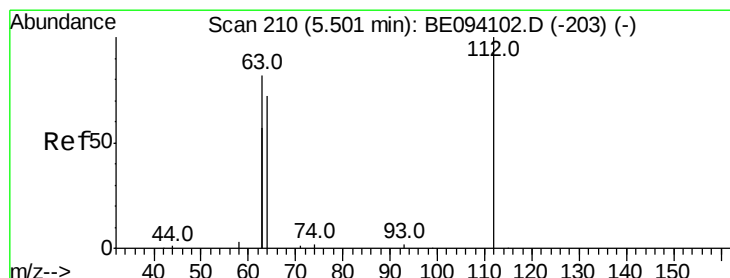
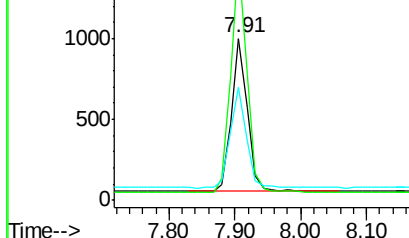
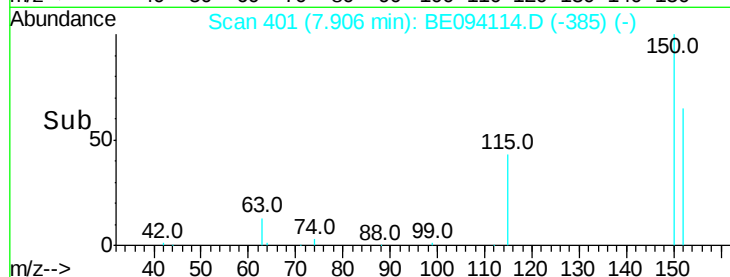
Tot Ion	Ratio	Lower	Upper
152	100		
150	150.6	117.2	175.8
115	70.2	57.0	85.6

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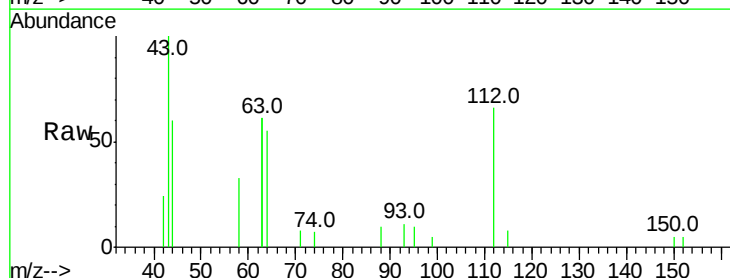
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



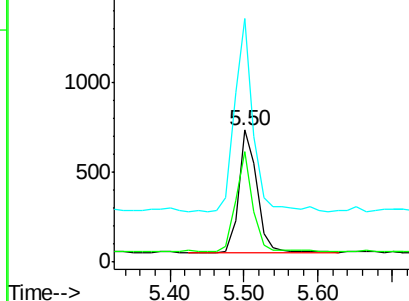
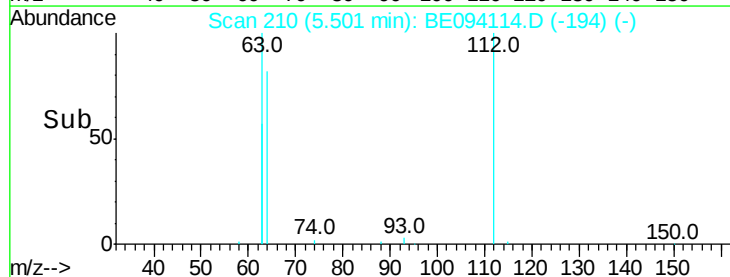
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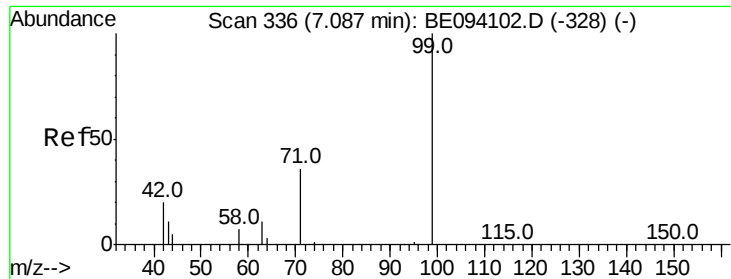
2-Fluorophenol
Concen: 0.197 ng
RT: 5.50 min Scan# 210
Delta R.T. 0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	75.8	60.1	90.1
63	159.0	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: 0.221 ng

RT: 7.09 min Scan# 336

Delta R.T. 0.00 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Instrument :

BNA_E

ClientSampled :

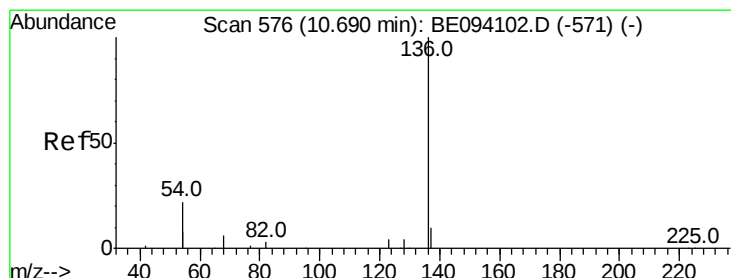
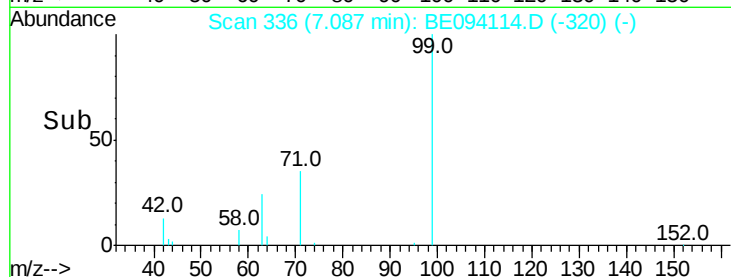
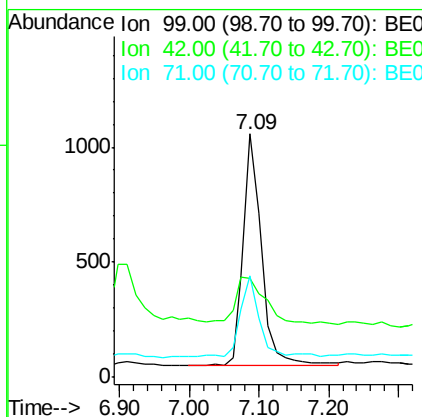
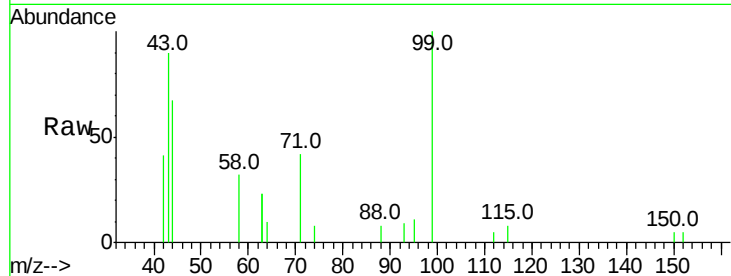
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Tot Ion:	99	Resp:	1843
Ion Ratio	Lower	Upper	
99	100		
42	34.3	20.2	30.2#
71	37.2	28.4	42.6

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#7

Naphthalene-d8

Concen: 0.400 ng

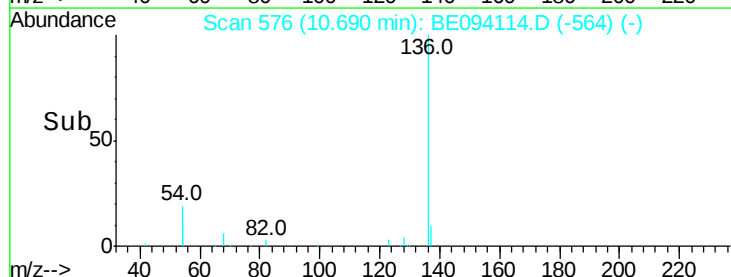
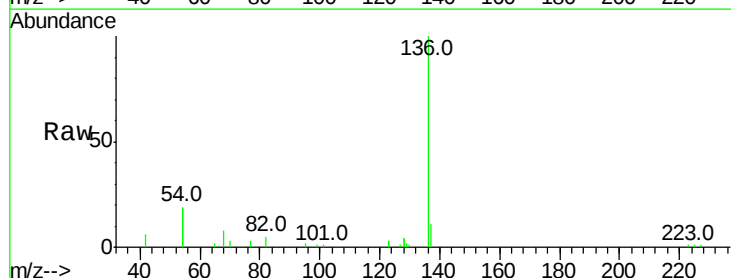
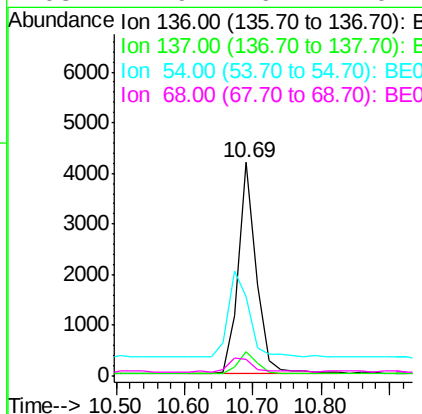
RT: 10.69 min Scan# 576

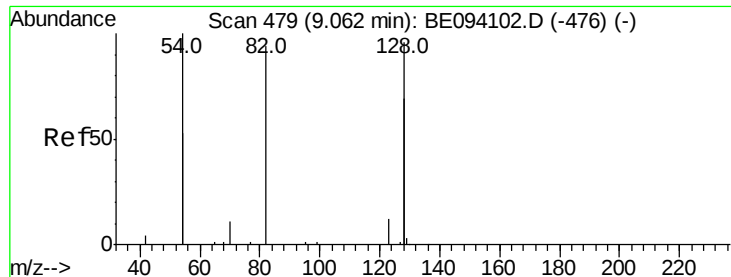
Delta R.T. 0.00 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Tgt Ion:	136	Resp:	7616
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.5	14.3
54	37.2	29.1	43.7
68	7.9	6.2	9.2





#8

Nitrobenzene-d5

Concen: 0.197 ng

RT: 9.06 min Scan# 479

Delta R.T. 0.00 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Instrument :

BNA_E

ClientSampleId :

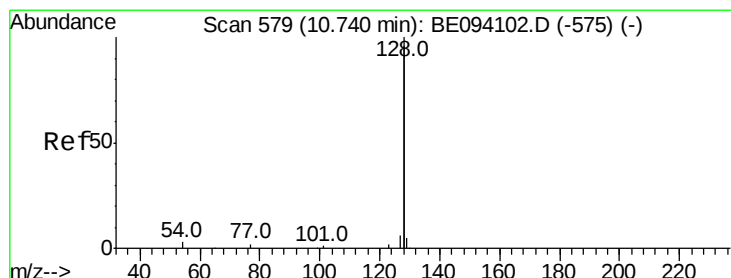
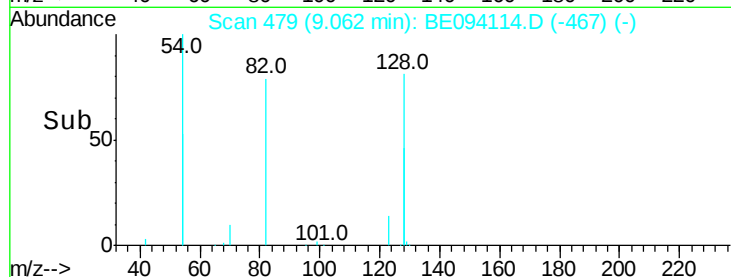
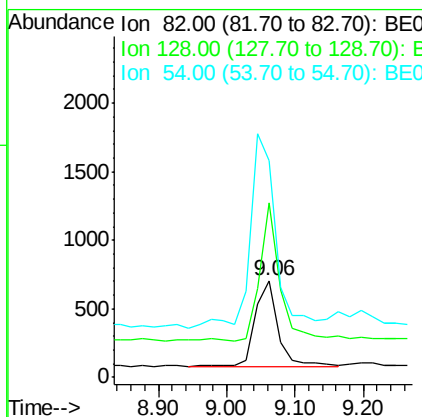
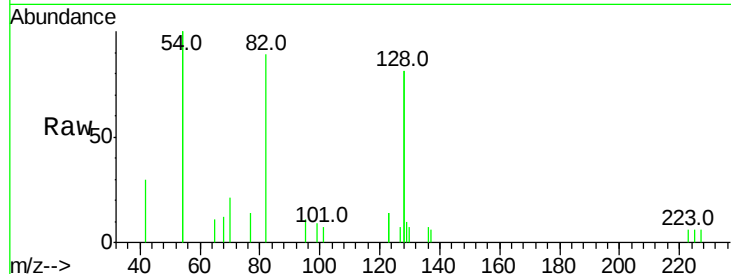
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Tot Ion:	82	Resp:	1453
Ion	Ratio	Lower	Upper
82	100		
128	180.5	150.0	225.0
54	224.1	154.2	231.4

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#9

Naphthalene

Concen: 0.012 ng

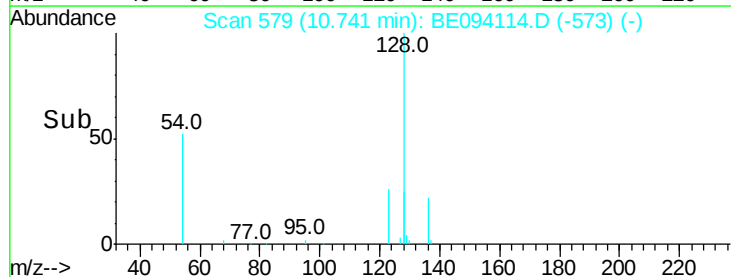
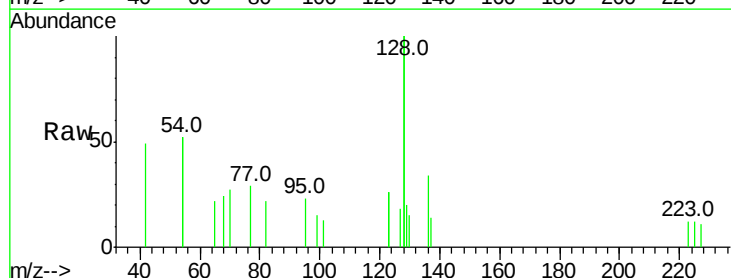
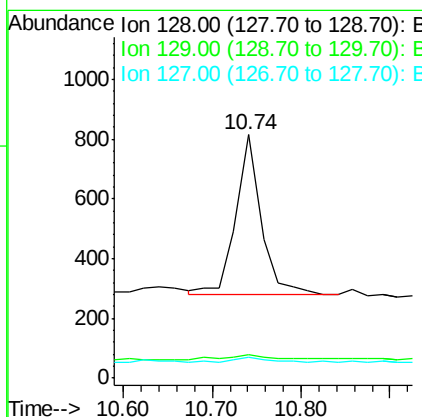
RT: 10.74 min Scan# 579

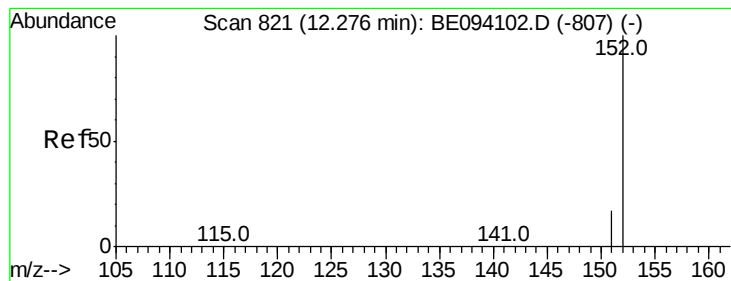
Delta R.T. 0.00 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Tgt Ion:	128	Resp:	1056
Ion	Ratio	Lower	Upper
128	100		
129	9.9	2.6	3.8#
127	8.8	2.8	4.2#





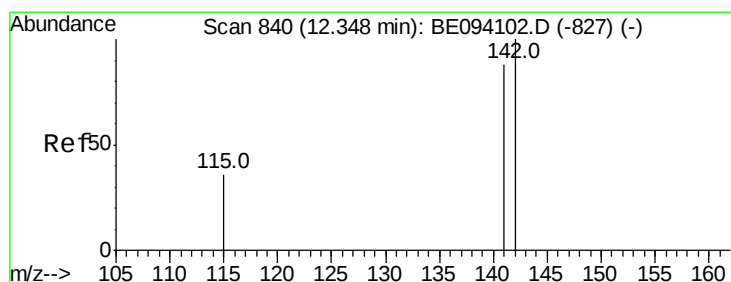
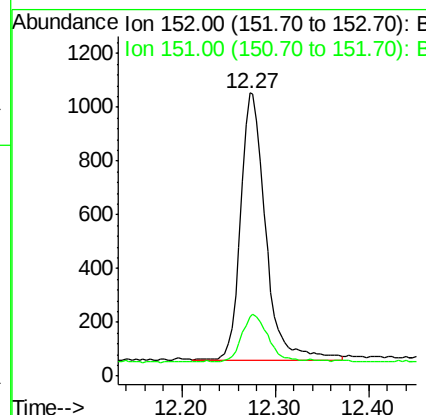
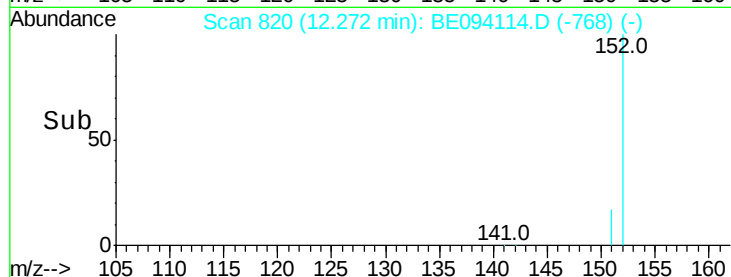
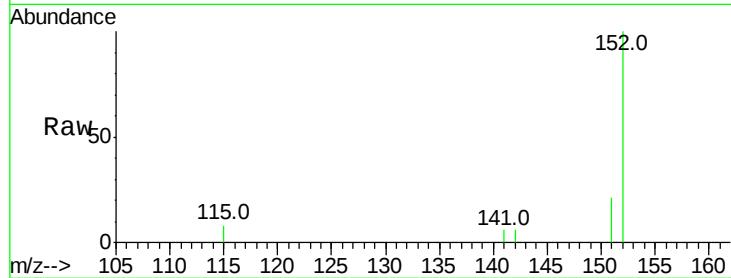
#11
2-Methylnaphthalene-d10
Concen: 0.158 ng
RT: 12.27 min Scan# 820
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

Tot Ion	Ratio	Lower	Upper
152	100		
151	18.1	15.4	23.0

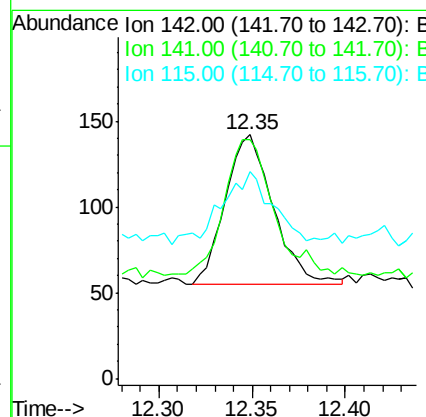
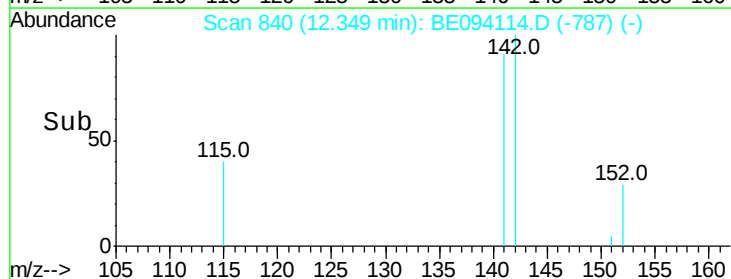
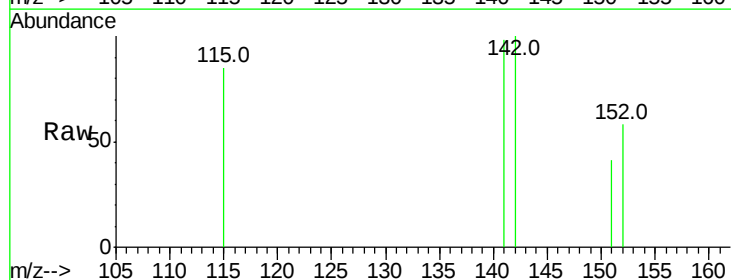
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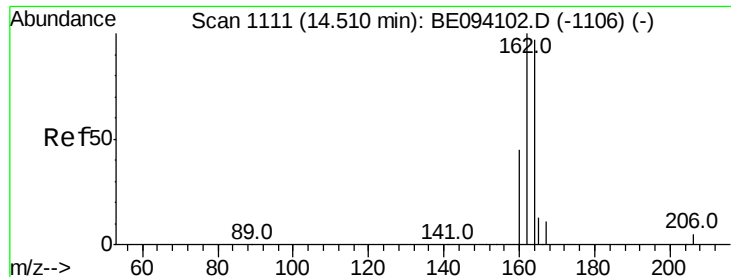
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#12
2-Methylnaphthalene
Concen: 0.011 ng
RT: 12.35 min Scan# 840
Delta R.T. 0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Lower	Upper
142	100		
141	97.9	70.4	105.6
115	85.2	31.7	47.5#





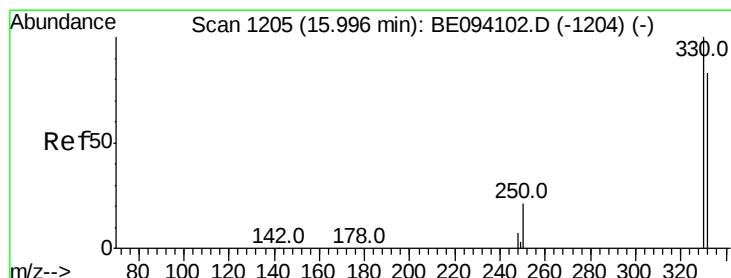
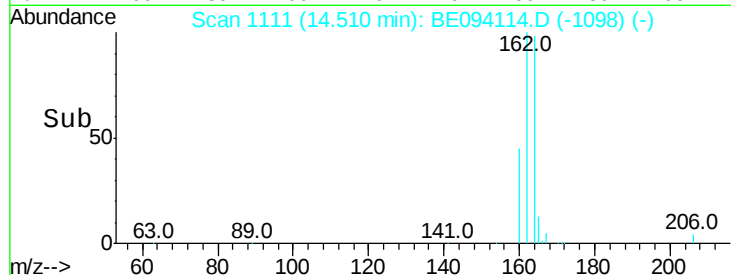
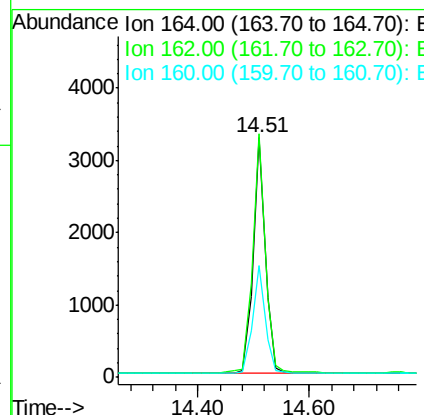
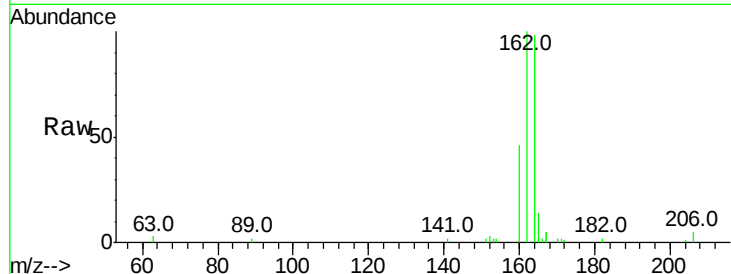
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.51 min Scan# 1111
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.8	83.1	124.7
160	46.5	37.1	55.7

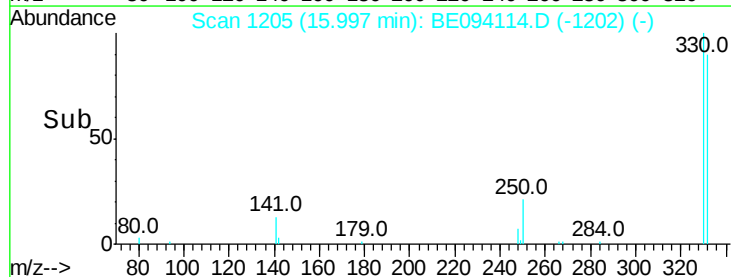
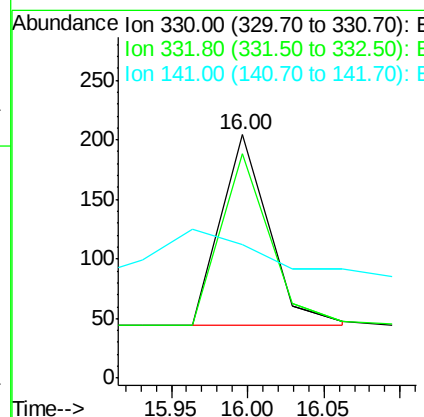
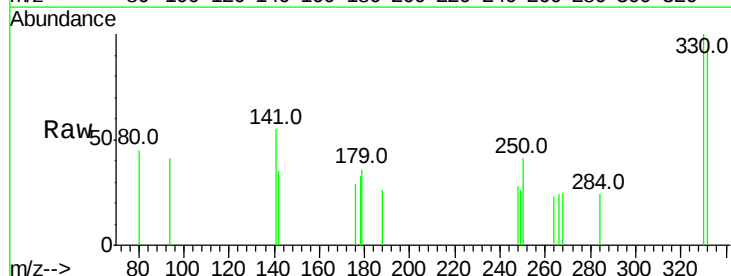
Manual Integrations
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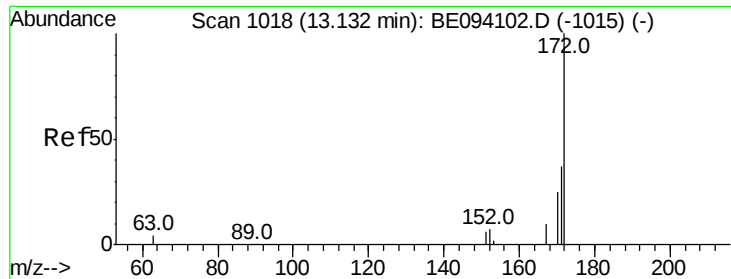
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#14
2,4,6-Tribromophenol
Concen: 0.093 ng
RT: 16.00 min Scan# 1205
Delta R.T. 0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.2	152.7	229.1#
141	0.0	33.7	50.5#





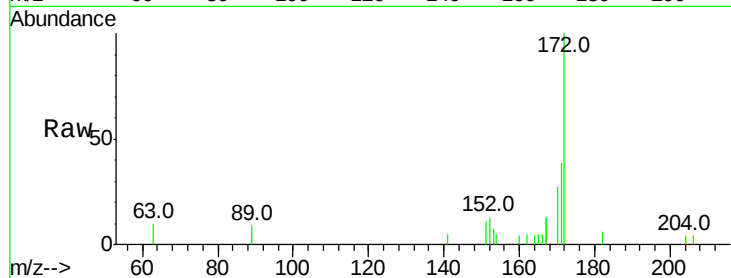
#15
2-Fluorobiphenyl
Concen: 0.138 ng
RT: 13.13 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

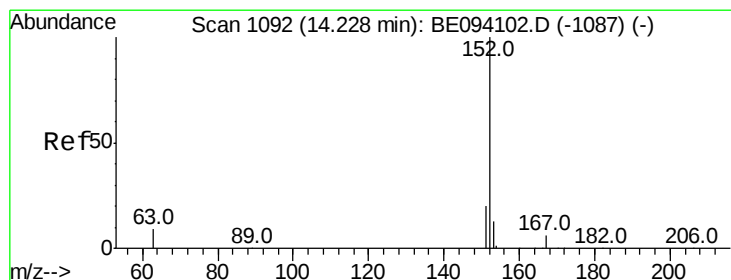
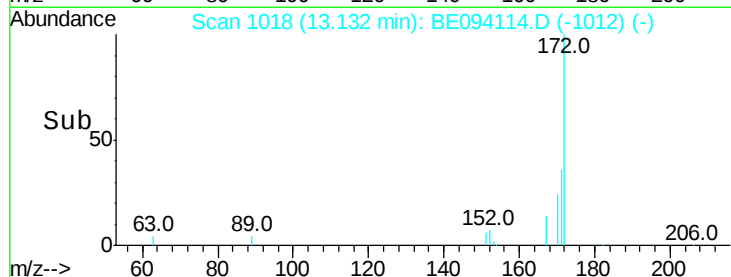
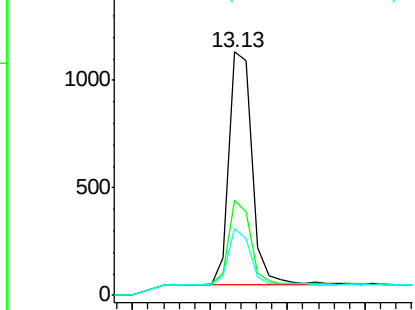
Tot Ion	Ratio	Lower	Upper
172	100		
171	39.0	29.9	44.9
170	27.4	21.8	32.8

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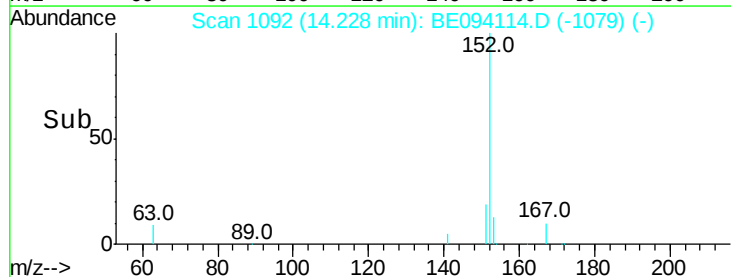
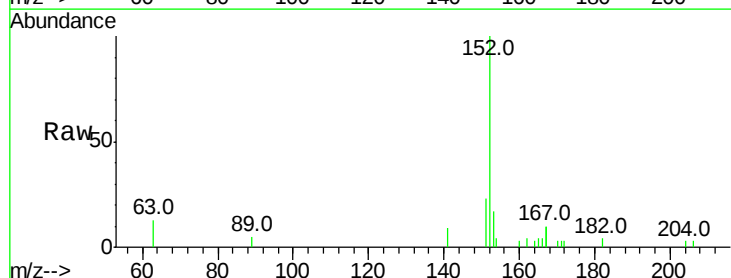
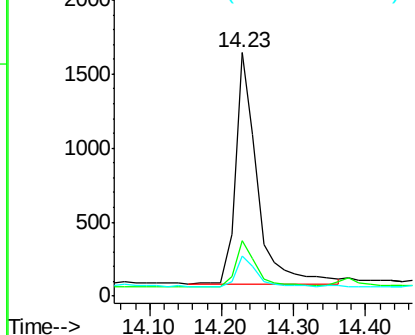
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

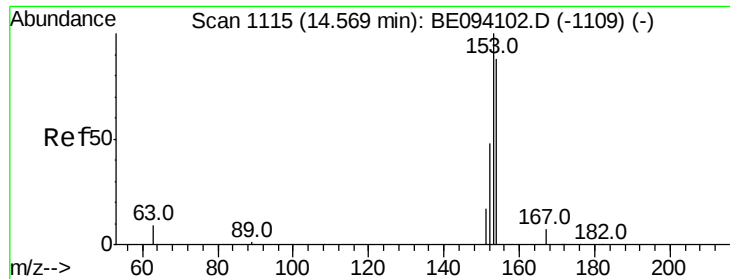


#16
Acenaphthylene
Concen: 0.132 ng
RT: 14.23 min Scan# 1092
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.8	15.7	23.5
153	13.8	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





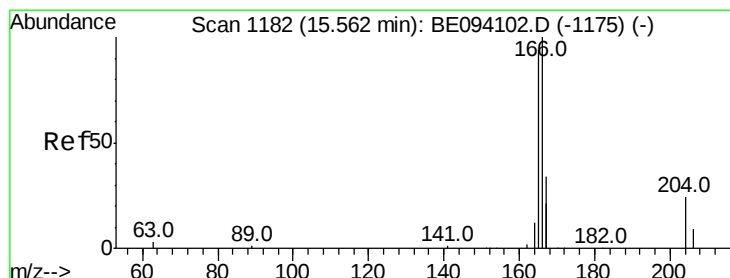
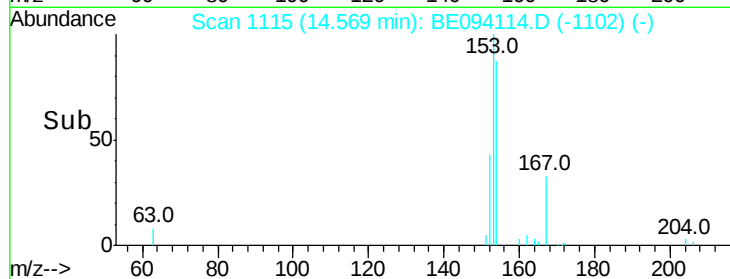
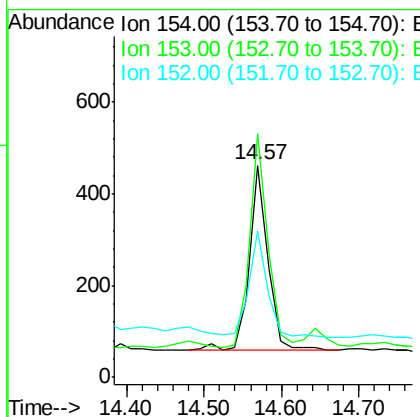
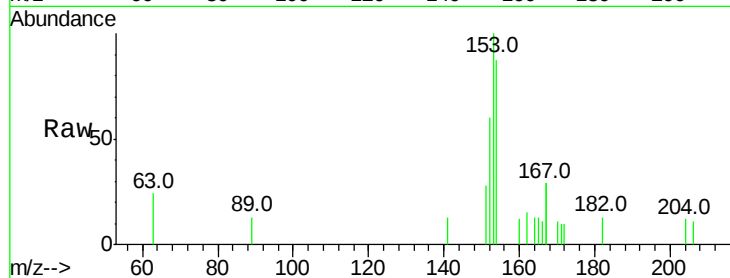
#17
Acenaphthene
Concen: 0.043 ng
RT: 14.57 min Scan# 1115
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

Tot Ion:154 Resp: 669
Ion Ratio Lower Upper
154 100
153 112.7 89.2 133.8
152 58.7 42.0 63.0

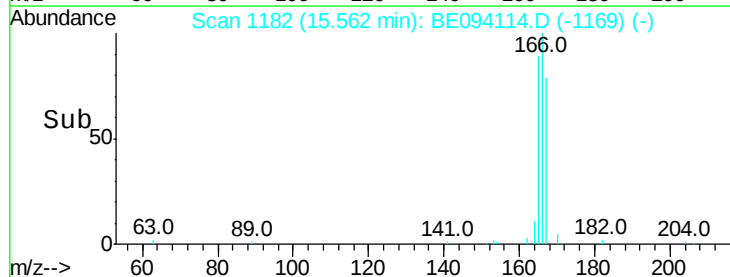
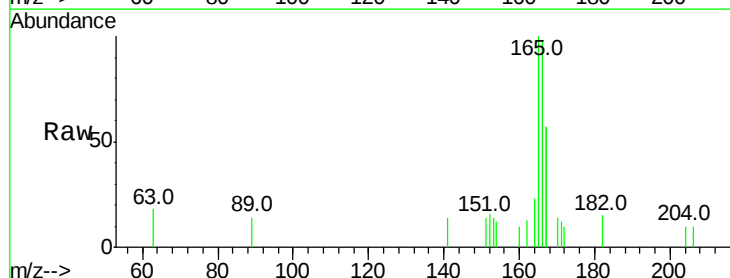
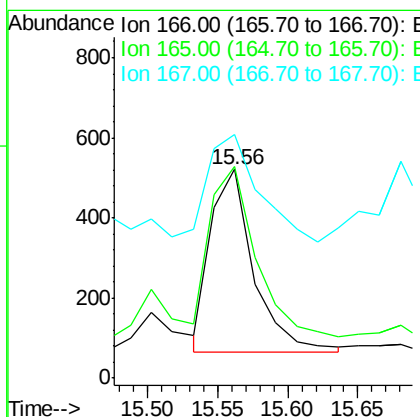
Manual Integrations
APPROVED

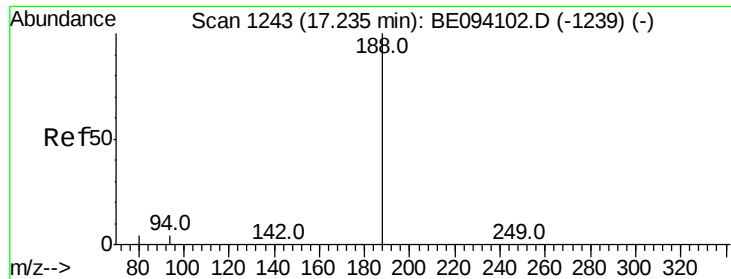
Sohil
9/26/2017 5:04:29 PM



#18
Fluorene
Concen: 0.047 ng m
RT: 15.56 min Scan# 1182
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion:166 Resp: 988
Ion Ratio Lower Upper
166 100
165 130.5 77.8 116.6#
167 70.9 42.4 63.6#





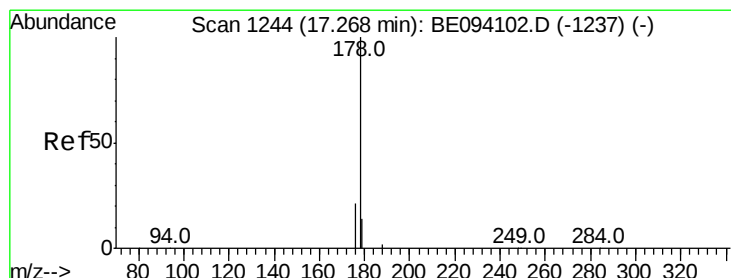
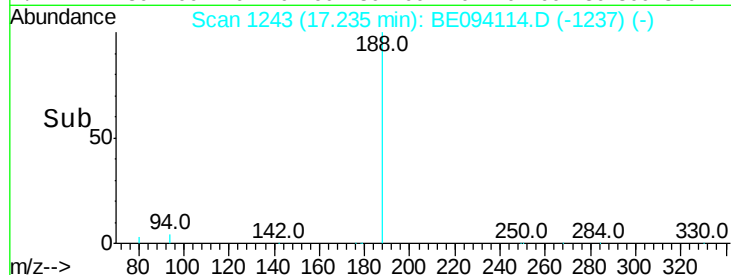
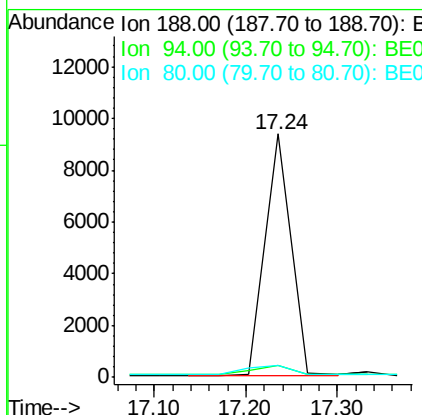
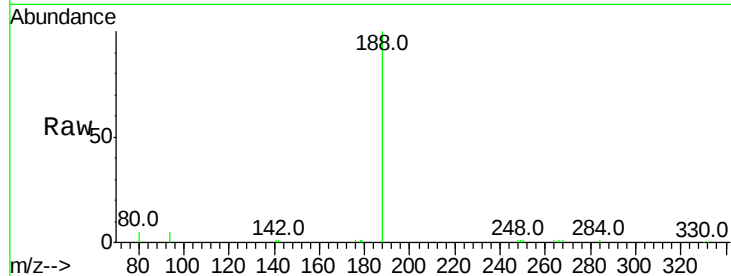
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.24 min Scan# 1243
Delta R.T. 0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

Tot Ion	Ratio	Resp	Lower	Upper
188	100	18688		
94	5.1		3.9	5.9
80	4.7		3.6	5.4

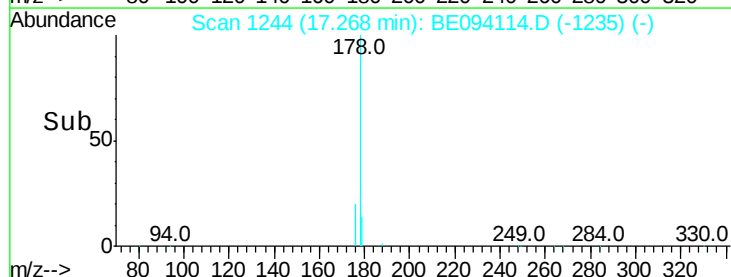
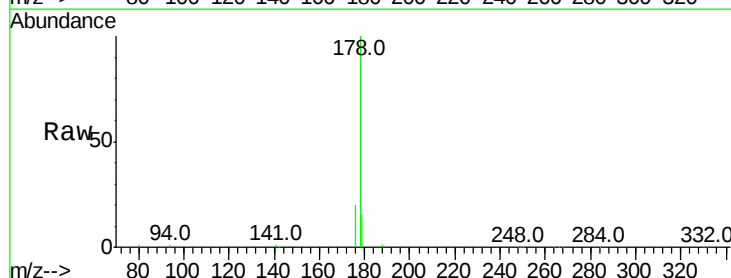
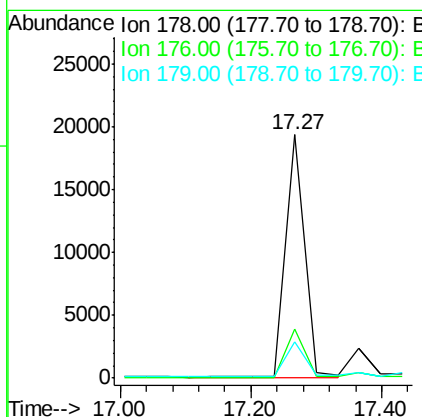
Manual Integrations
APPROVED

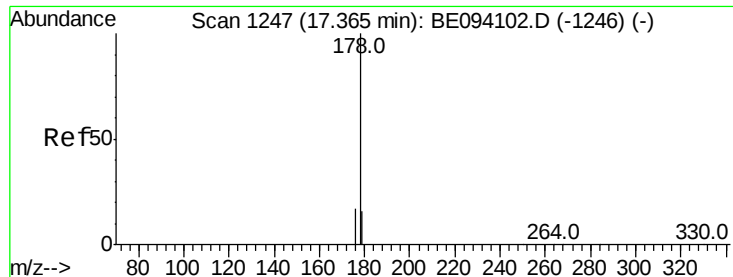
Sohil
9/26/2017 5:04:29 PM



#23
Phenanthrene
Concen: 0.812 ng
RT: 17.27 min Scan# 1244
Delta R.T. 0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	38833		
176	19.9		15.1	22.7
179	15.4		11.8	17.6





#24

Anthracene

Concen: 0.106 ng

RT: 17.37 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Instrument :

BNA_E

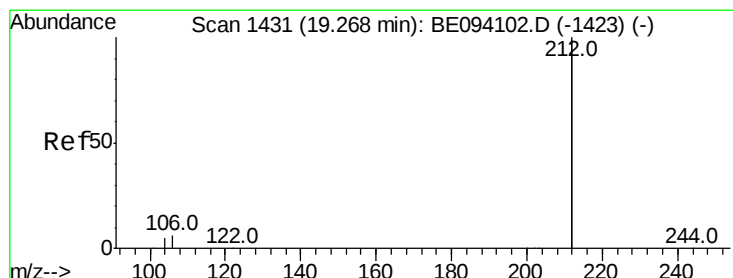
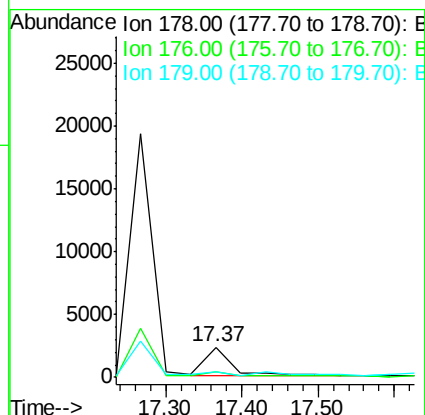
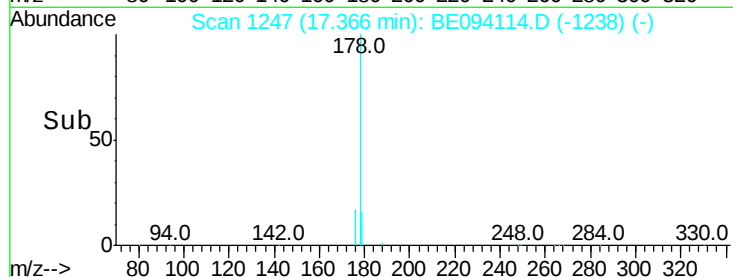
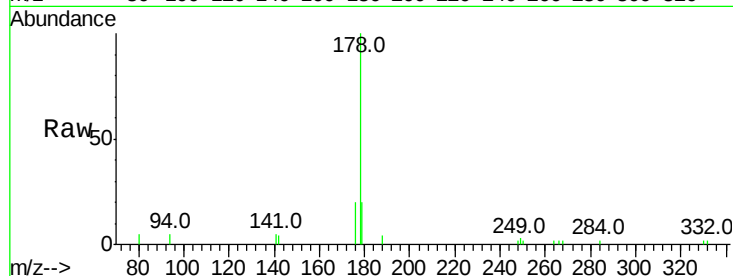
ClientSampled :

LT-TS-009

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.0	12.8	19.2
179	11.8	13.0	19.6

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.117 ng

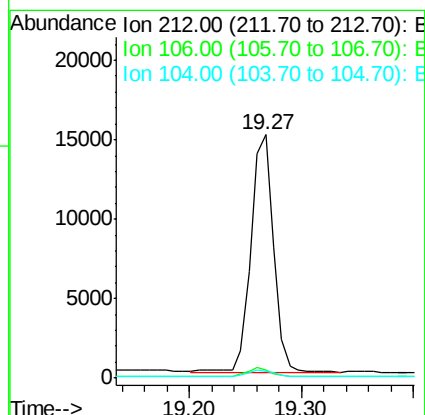
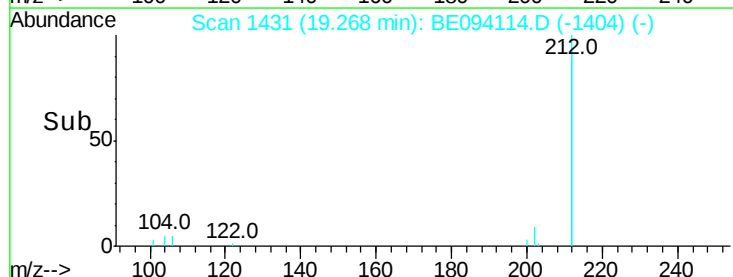
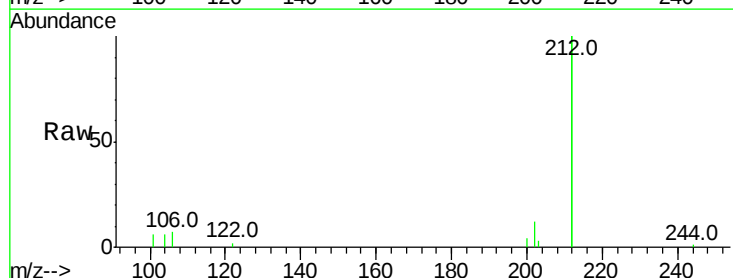
RT: 19.27 min Scan# 1431

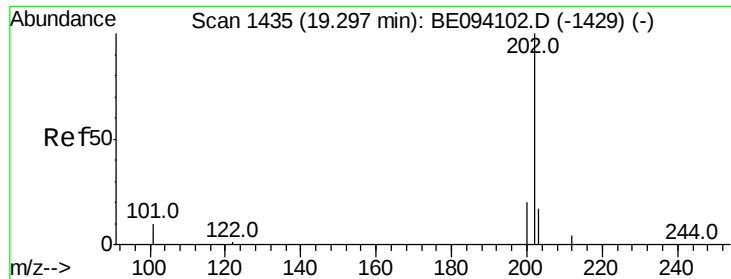
Delta R.T. 0.00 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Lower	Upper
212	100		
106	3.6	2.8	4.2
104	3.3	1.6	2.4





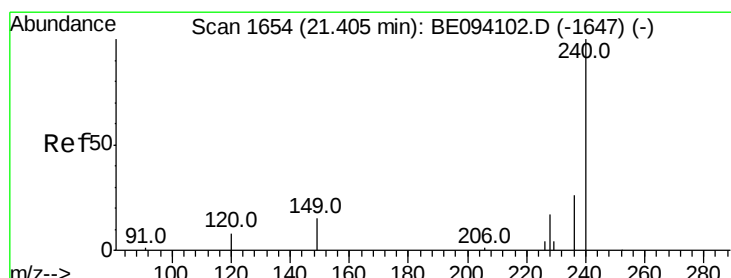
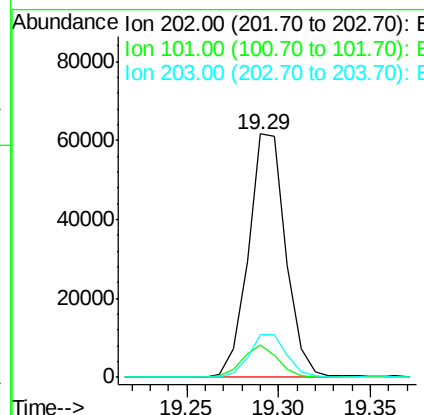
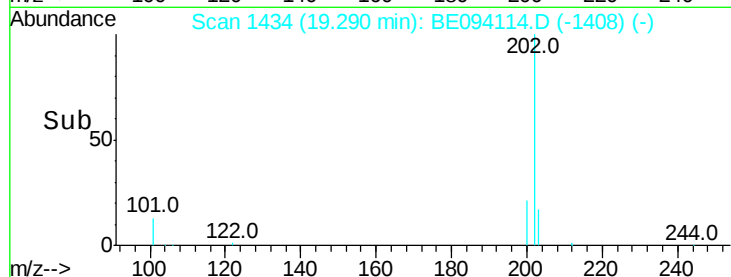
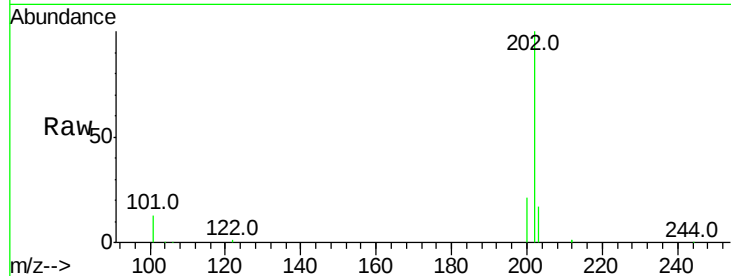
#26
Fluoranthene
Concen: 1.630 ng
RT: 19.29 min Scan# 1434
Delta R.T. -0.01 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

Tot Ion	Ratio	Resp	Lower	Upper
202	100	87327		
101	12.1		9.8	14.8
203	17.4		13.7	20.5

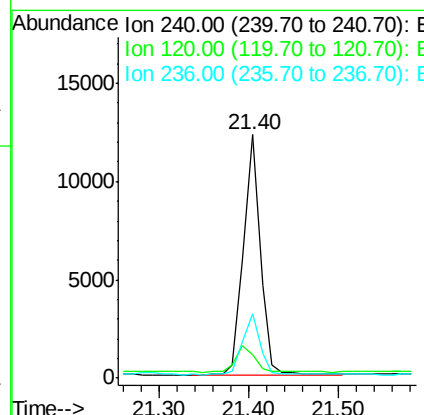
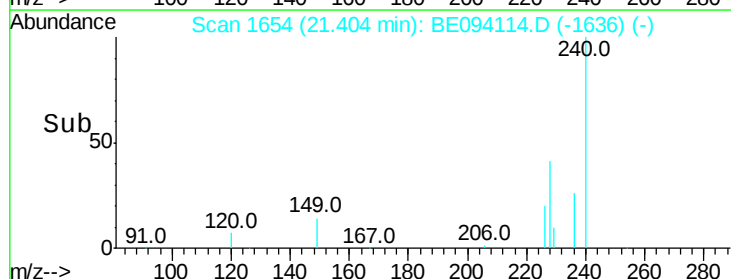
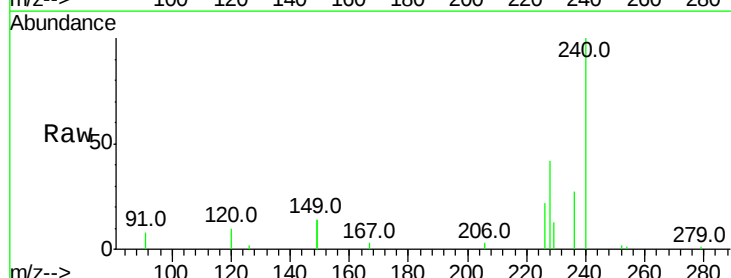
Manual Integrations
APPROVED

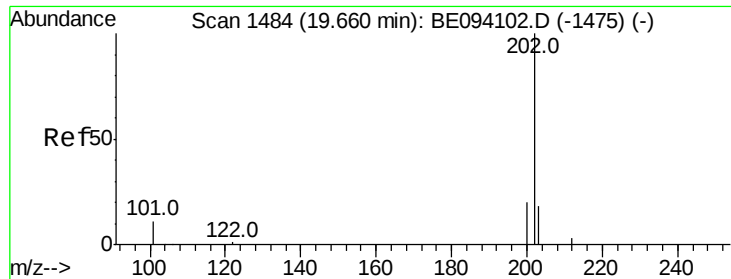
Sohil
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#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.40 min Scan# 1654
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	16016		
120	9.5		5.5	8.3#
236	26.6		20.7	31.1





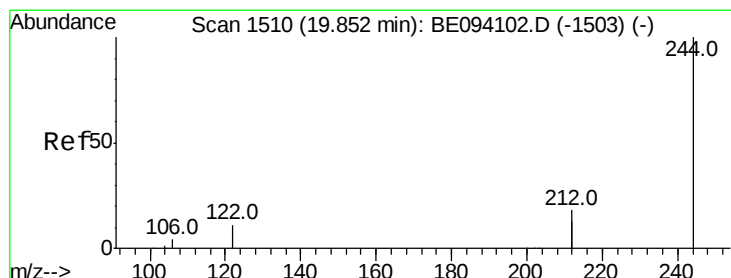
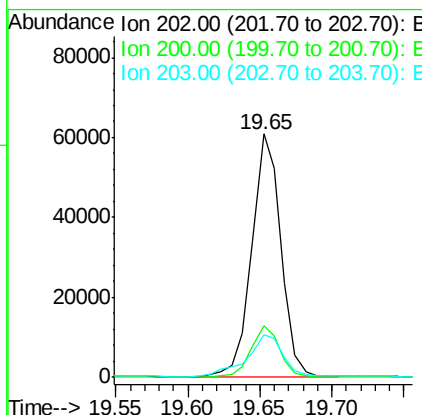
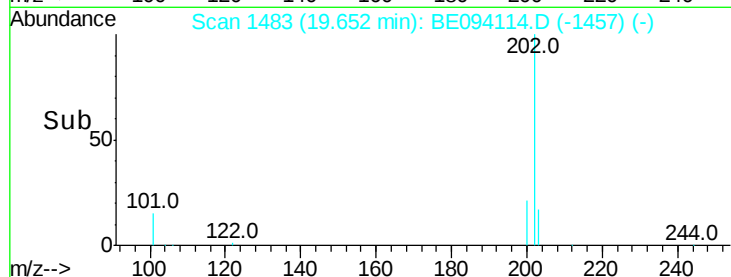
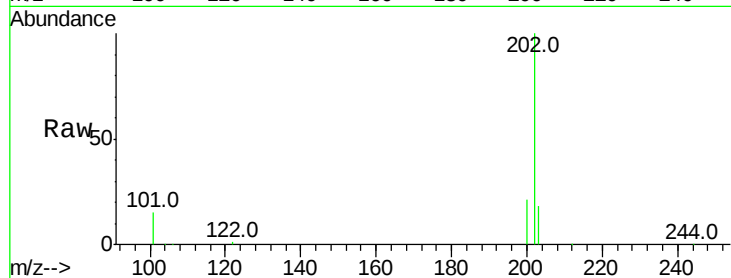
#28
Pvrene
Concen: 1.682 ng
RT: 19.65 min Scan# 1483
Delta R.T. -0.01 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.0	16.6	25.0
203	21.4	13.8	20.8

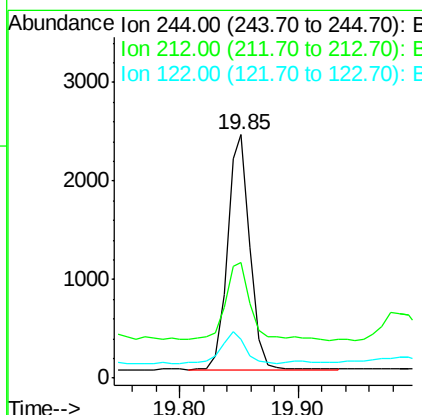
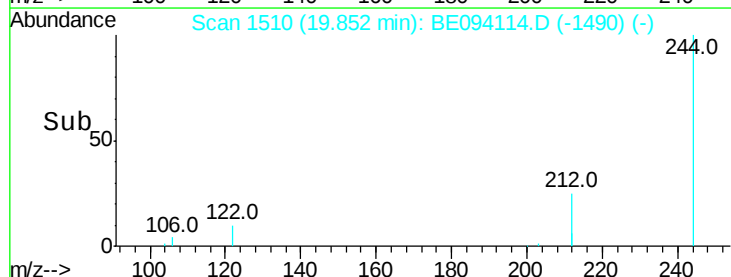
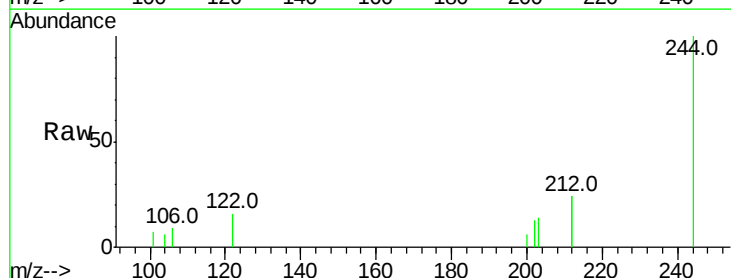
Manual Integrations
APPROVED

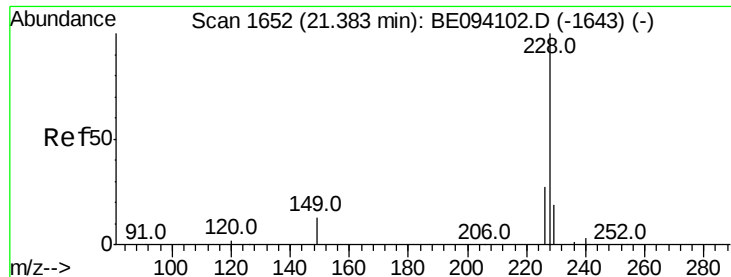
Sohil
9/26/2017 5:04:29 PM



#29
Terphenyl-d14
Concen: 0.108 ng
RT: 19.85 min Scan# 1510
Delta R.T. 0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	47.6	25.4	38.0
122	15.7	8.1	12.1





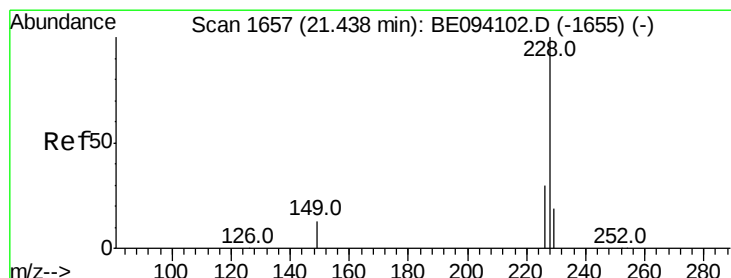
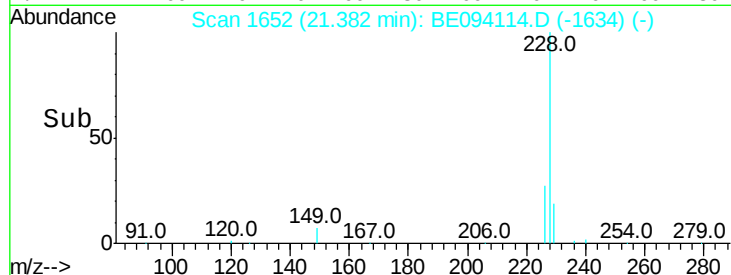
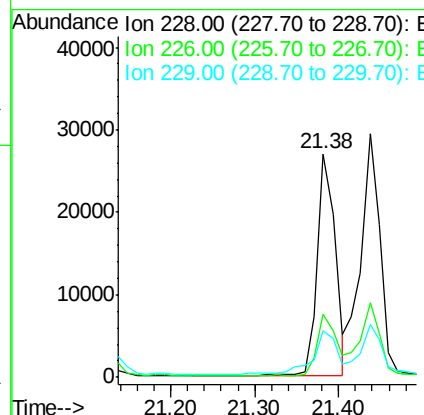
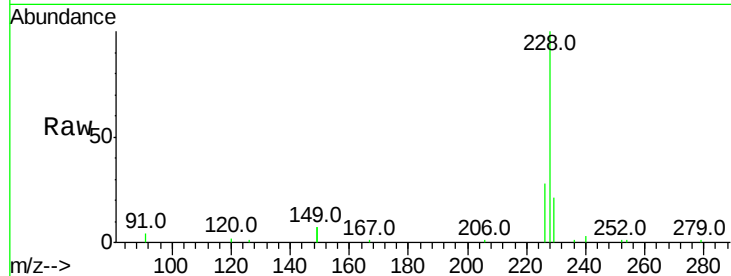
#30
Benzo(a)anthracene
Concen: 0.738 ng
RT: 21.38 min Scan# 1652
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.4	21.4	32.0
229	21.1	16.4	24.6

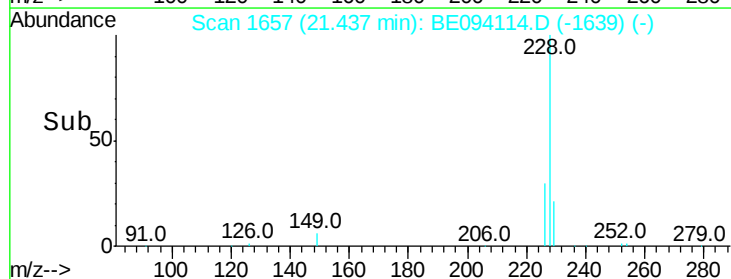
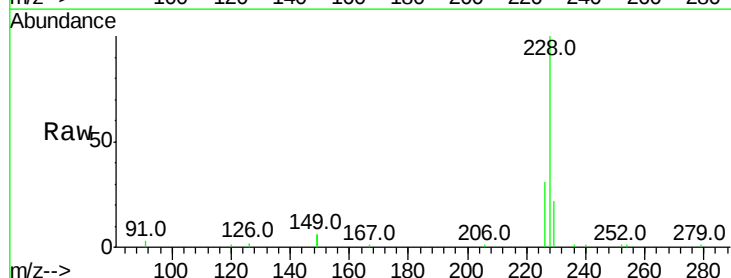
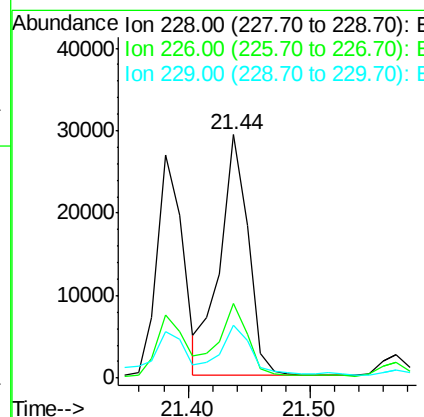
Manual Integrations
APPROVED

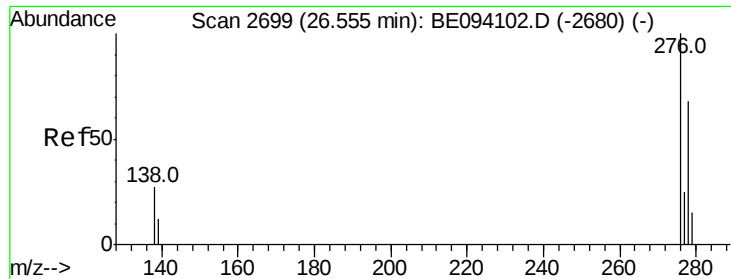
Sohil
9/26/2017 5:04:29 PM



#31
Chrysene
Concen: 0.895 ng
RT: 21.44 min Scan# 1657
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.6	35.4
229	21.9	16.4	24.6





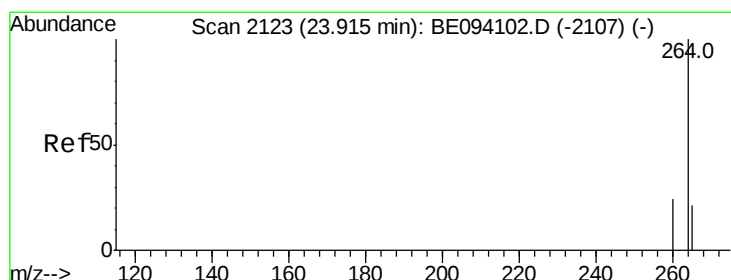
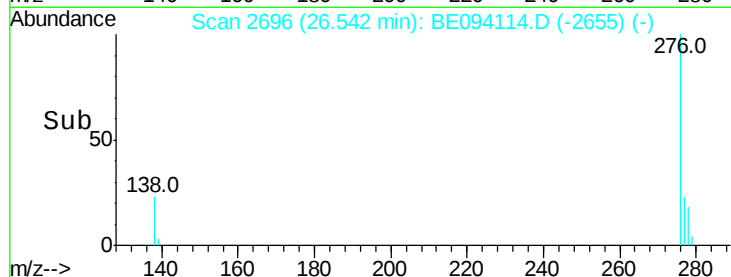
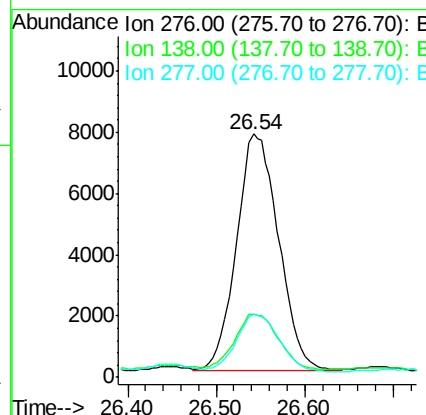
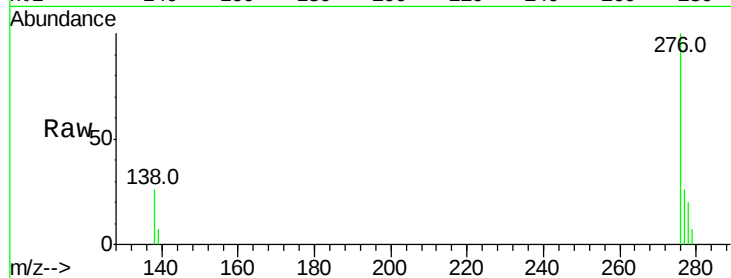
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.458 ng
 RT: 26.54 min Scan# 2696
 Delta R.T. -0.01 min
 Lab File: BE094114.D
 Acq: 25 Sep 2017 22:22

Instrument :
 BNA_E
 ClientSampled :
 LT-TS-009

Tot Ion	Ratio	Resp	Lower	Upper
276	100	25505		
138	24.5		22.5	33.7
277	24.5		19.9	29.9

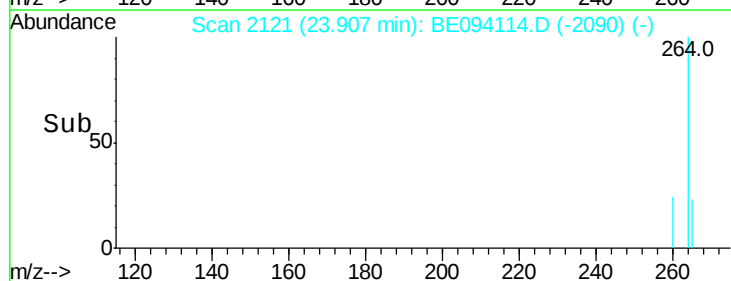
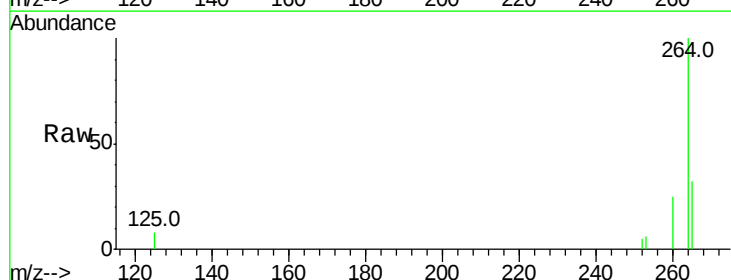
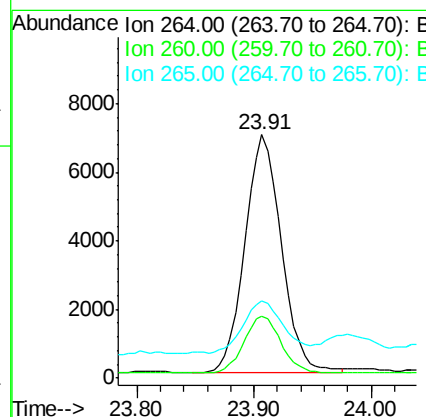
Manual Integrations
 APPROVED

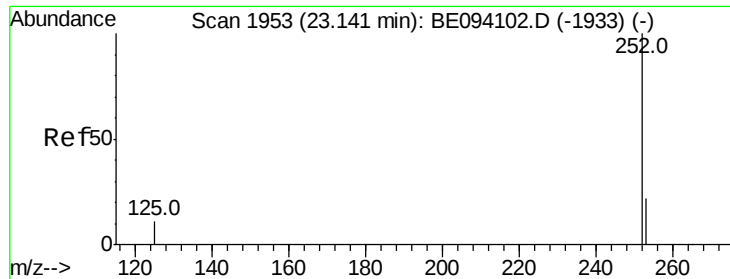
Sohil
 9/26/2017 5:04:29 PM



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.91 min Scan# 2121
 Delta R.T. -0.01 min
 Lab File: BE094114.D
 Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	15015		
260	25.3		20.5	30.7
265	31.7		22.8	34.2





#35

Benzo(b)fluoranthene

Concen: 1.046 ng

RT: 23.14 min Scan# 1953

Delta R.T. 0.00 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Instrument :

BNA_E

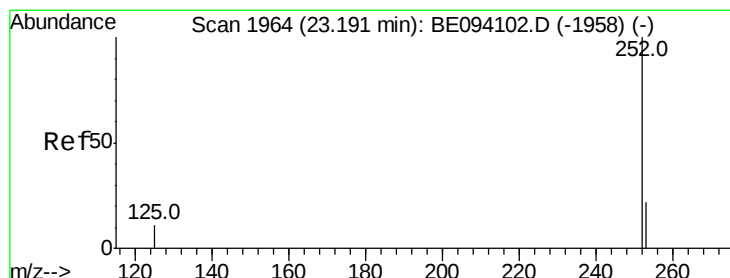
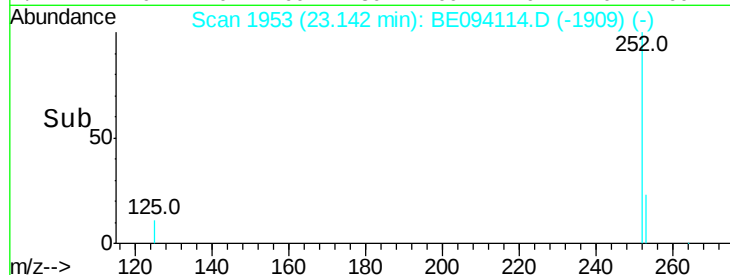
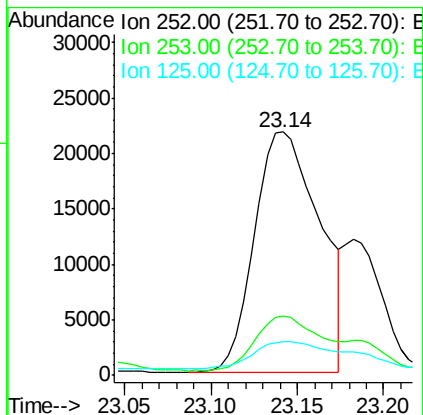
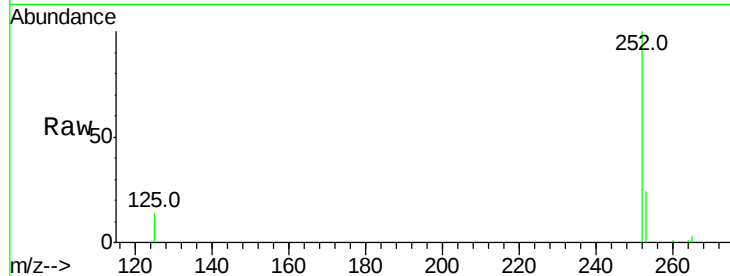
ClientSampled :

LT-TS-009

Tot Ion:	252	Resp:	56691
Ion Ratio	Lower	Upper	
252	100		
253	24.1	18.2	27.2
125	13.7	10.1	15.1

Manual Integrations
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#36

Benzo(k)fluoranthene

Concen: 0.364 ng m

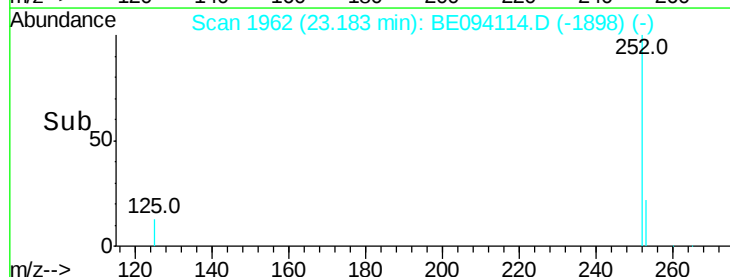
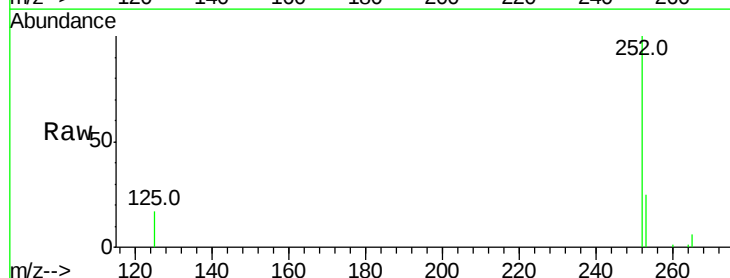
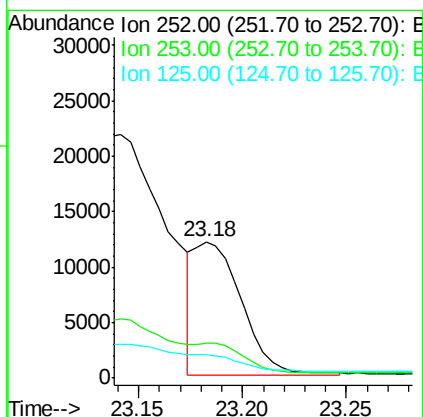
RT: 23.18 min Scan# 1962

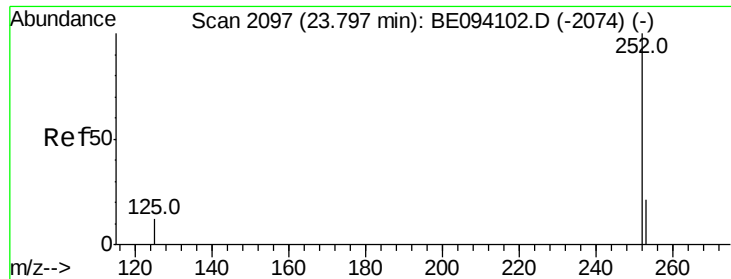
Delta R.T. -0.01 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Tgt Ion:	252	Resp:	18891
Ion Ratio	Lower	Upper	
252	100		
253	25.4	18.6	27.8
125	17.3	10.7	16.1#





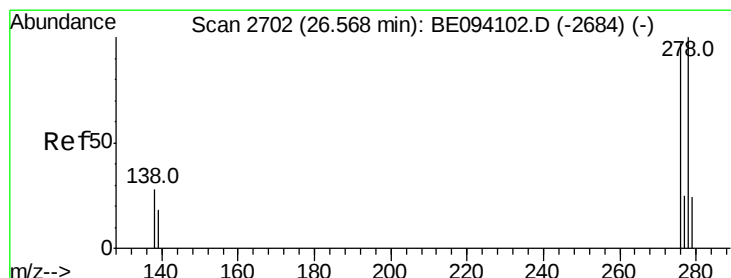
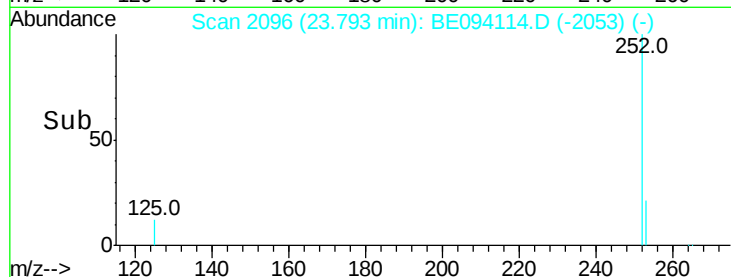
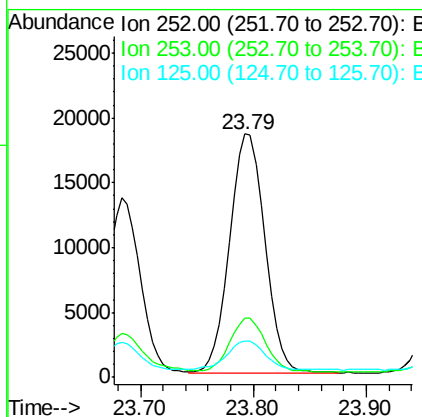
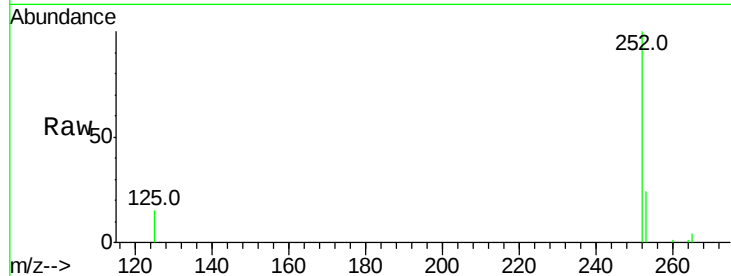
#37
Benzo(a)pyrene
Concen: 0.799 ng
RT: 23.79 min Scan# 2096
Delta R.T. -0.00 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Instrument :
BNA_E
ClientSampleId :
LT-TS-009

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.0	28.6
125	15.1	11.8	17.8

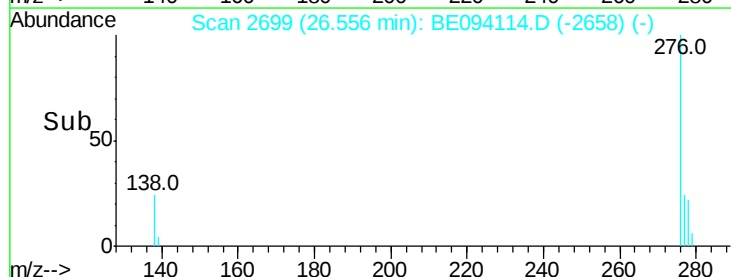
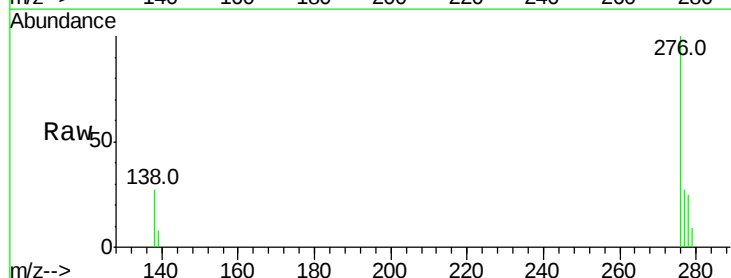
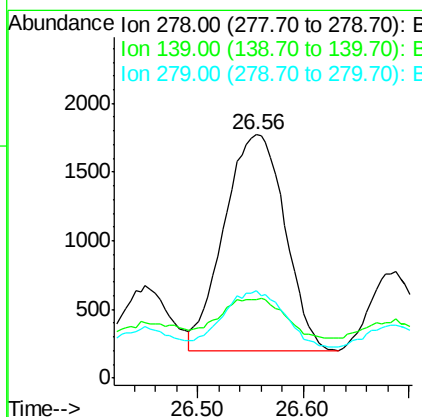
Manual Integrations
APPROVED

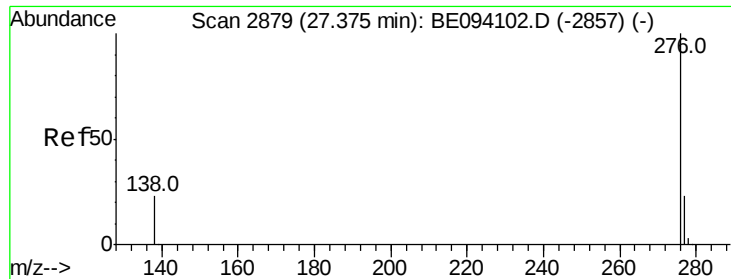
Sohil
9/26/2017 5:04:29 PM



#38
Dibenzo(a,h)anthracene
Concen: 0.136 ng
RT: 26.56 min Scan# 2699
Delta R.T. -0.01 min
Lab File: BE094114.D
Acq: 25 Sep 2017 22:22

Tgt Ion	Ratio	Lower	Upper
278	100		
139	32.3	16.3	24.5#
279	35.9	19.9	29.9#





#39

Benzo(a,h,i)perylene

Concen: 0.558 ng

RT: 27.37 min Scan# 2877

Delta R.T. -0.01 min

Lab File: BE094114.D

Acq: 25 Sep 2017 22:22

Instrument :

BNA_E

ClientSampleId :

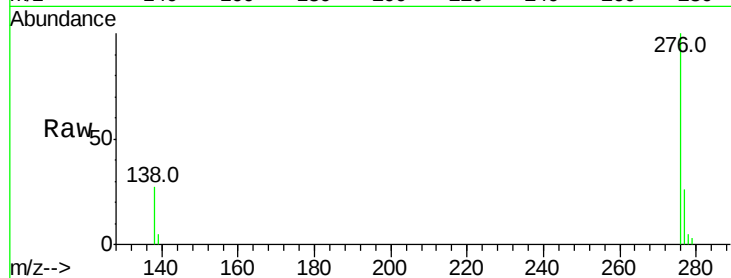
LT-TS-009

Tot Ion:	276	Resp:	25610
Ion Ratio	Lower	Upper	
276	100		
277	26.0	20.8	31.2
138	27.2	21.5	32.3

Manual Integrations
APPROVED

Sohil

9/26/2017 5:04:29 PM



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

