

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102714\
 Data File : BE088323.D
 Acq On : 27 Oct 2014 20:48
 Operator : TP/JJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Manual Integrations
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 10/29/2014 11:11:28 AM

Quant Time: Oct 28 10:10:20 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102714.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 01:17:45 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	64574	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	248240	5.00	ng	0.00
7) Acenaphthene-d10	10.81	164	115455	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	213975	5.00	ng	0.00
16) Chrysene-d12	18.35	240	119928	5.00	ng	0.00
22) Perylene-d12	21.41	264	111926	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.80	82	98287	6.38	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	157501	4.93	ng	0.00
18) Terphenyl-d14	16.11	244	112477	5.68	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.38	88	46772	5.21	ng	100
5) Naphthalene	8.70	128	250506	4.96	ng	98
6) 2-Methylnaphthalene	9.55	142	156270	5.09	ng	97
9) Acenaphthylene	10.64	152	861195	5.00	ng	100
10) Acenaphthene	10.86	154	128089	4.71	ng	96
11) Fluorene	11.52	166	139846	5.00	ng	98
13) Phenanthrene	12.97	178	967409	4.74	ng	98
14) Anthracene	13.06	178	786361	5.19	ng	99
15) Fluoranthene	15.21	202	175222	5.56	ng	100
17) Pyrene	15.67	202	182840	5.55	ng	100
19) Benzo(a)anthracene	18.33	228	549432	5.78	ng	100
20) Chrysene	18.40	228	533889	5.04	ng	100
21) Indeno(1,2,3-cd)pyrene	23.59	276	597241m	7.45	ng	
23) Benzo(b)fluoranthene	20.65	252	128657	6.80	ng	99
24) Benzo(k)fluoranthene	20.70	252	134820	4.73	ng	99
25) Benzo(a)pyrene	21.29	252	122304	6.70	ng	98
26) Dibenzo(a,h)anthracene	23.68	278	120798	7.04	ng	98
27) Benzo(g,h,i)perylene	24.22	276	522894	5.81	ng	98

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

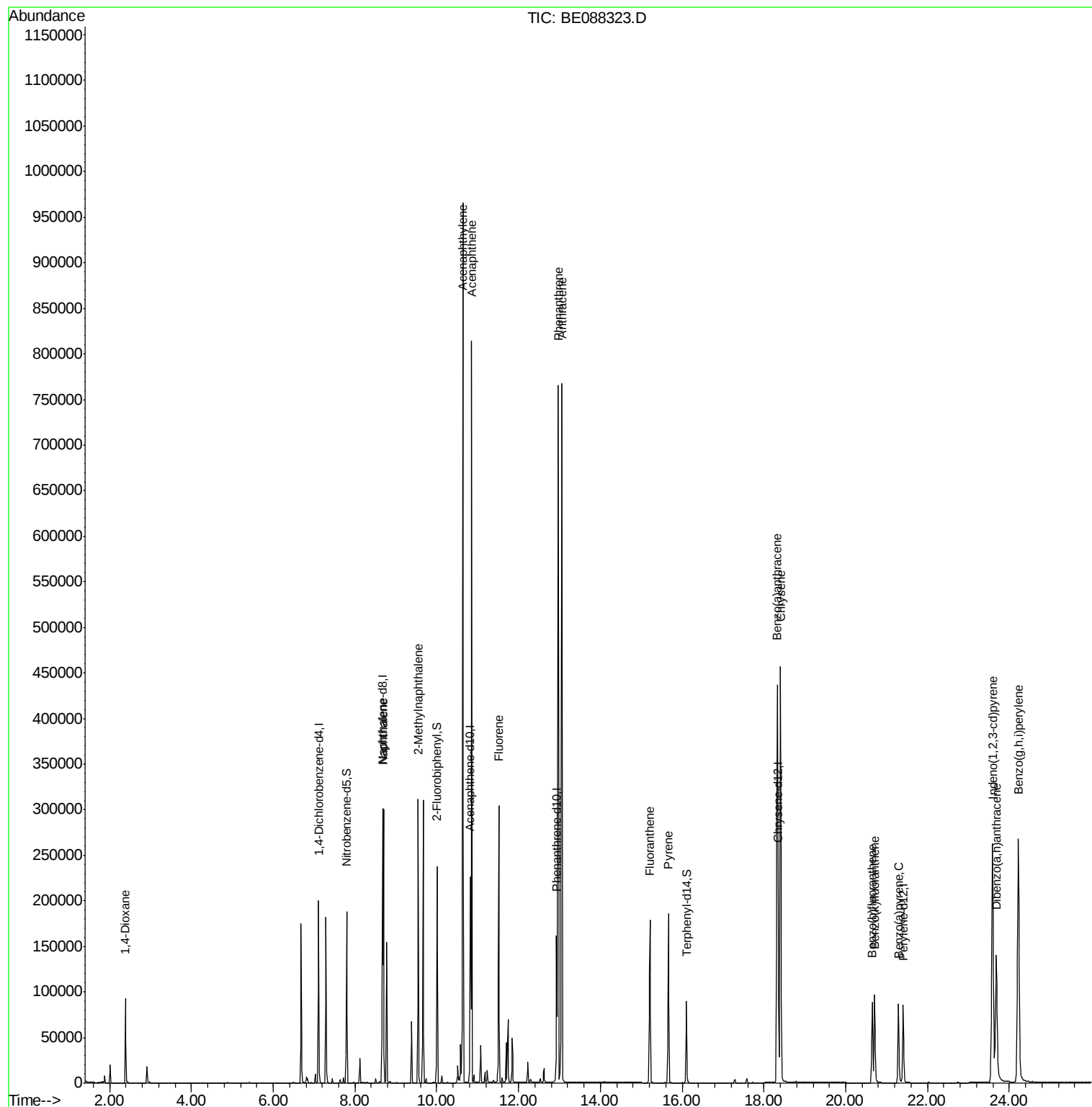
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102714\
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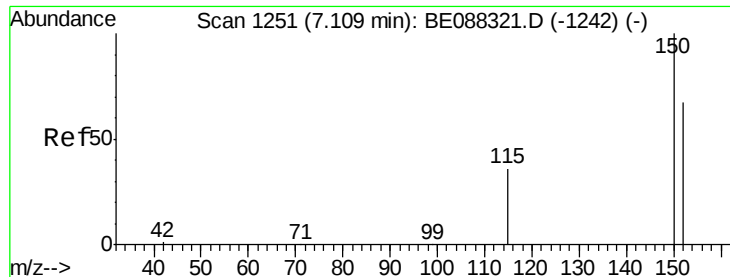
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1251

Delta R.T. -0.00 min

Lab File: BE088323.D

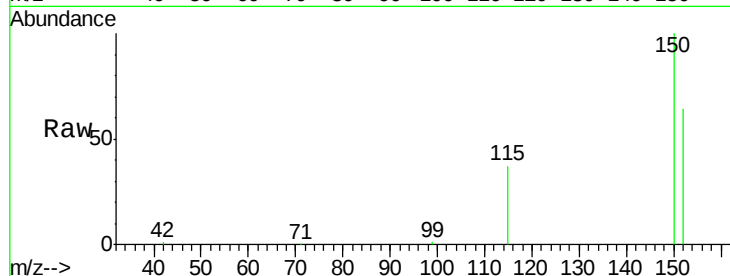
Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

ClientSampleId :

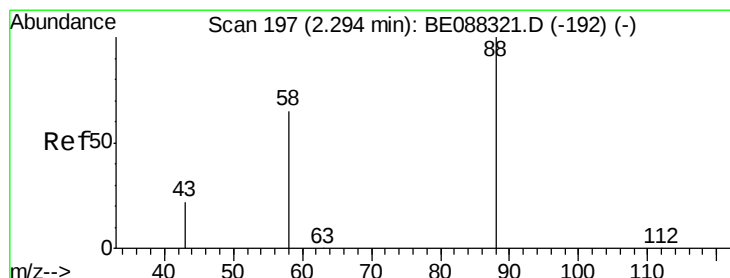
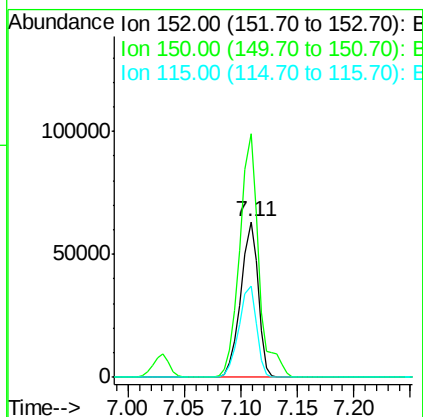
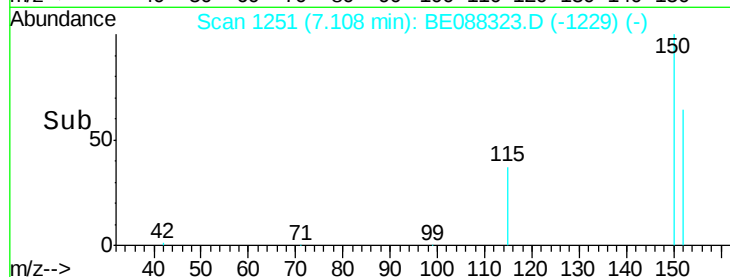
SSTDICC005



Tgt Ion:	152	Resp:	64574
Ion	Ratio	Lower	Upper
152	100		
150	156.2	119.3	178.9
115	58.2	42.6	64.0

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#2

1,4-Dioxane

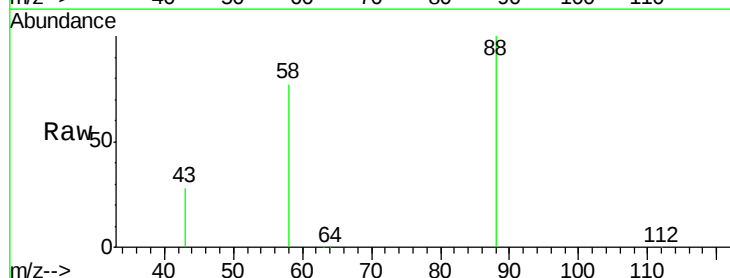
Concen: 5.21 ng

RT: 2.38 min Scan# 217

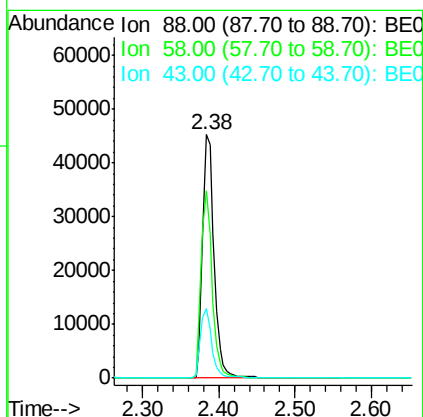
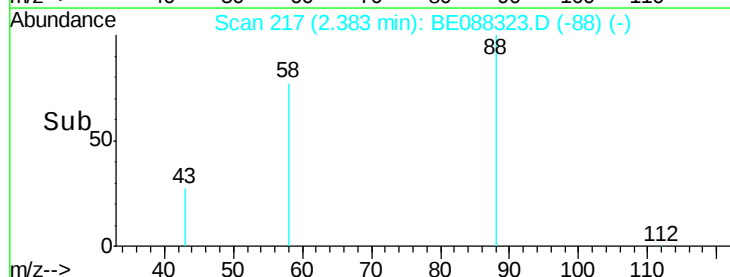
Delta R.T. 0.09 min

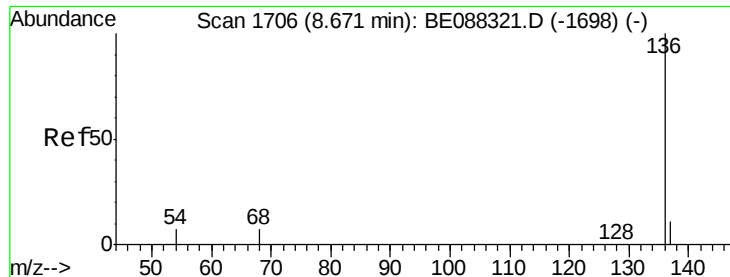
Lab File: BE088323.D

Acq: 27 Oct 2014 20:48



Tgt Ion:	88	Resp:	46772
Ion	Ratio	Lower	Upper
88	100		
58	74.1	59.4	89.0
43	27.4	21.4	32.2





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.67 min Scan# 1706

Delta R.T. -0.00 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

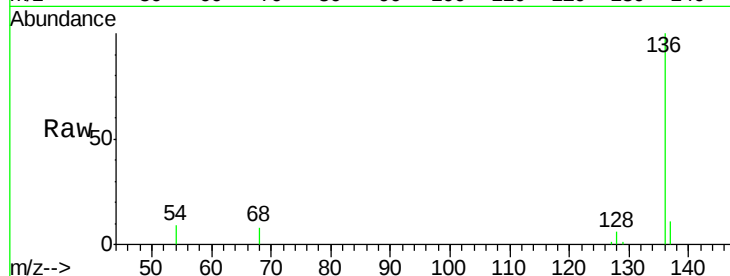
ClientSampleId :

SSTDICC005

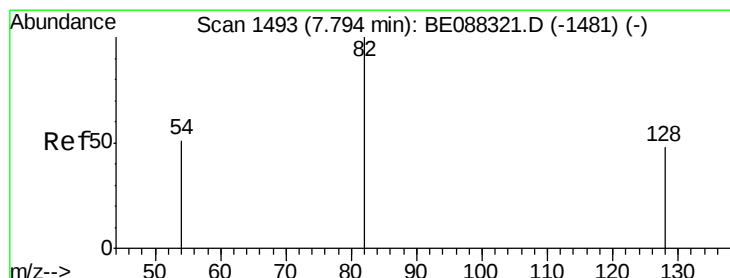
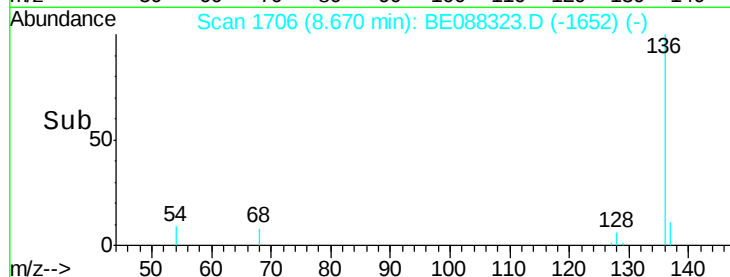
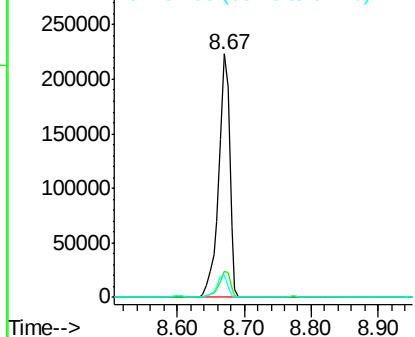
Tgt Ion:	136	Resp:	248240
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.8	13.2
54	8.9	5.5	8.3#

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



#4

Nitrobenzene-d5

Concen: 6.38 ng

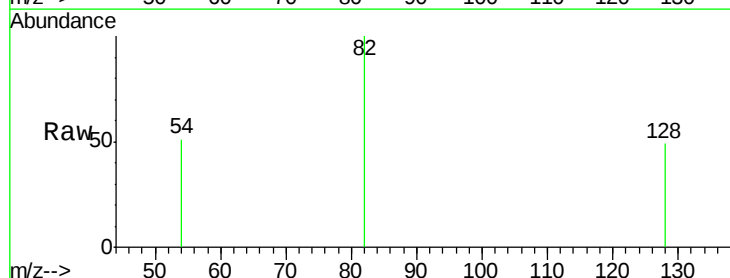
RT: 7.80 min Scan# 1495

Delta R.T. 0.00 min

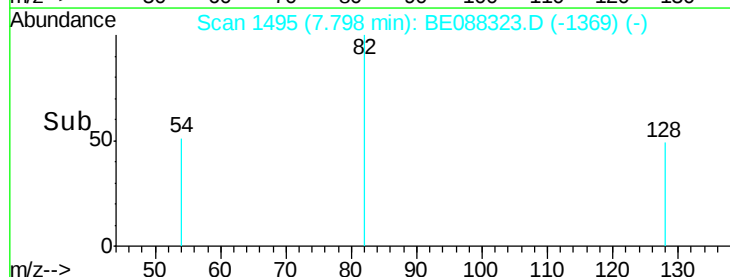
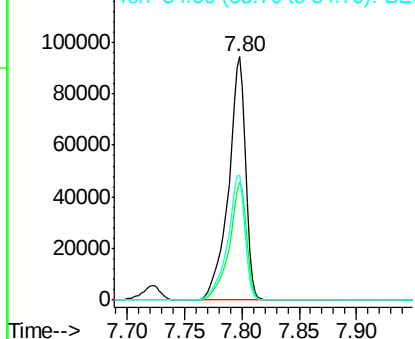
Lab File: BE088323.D

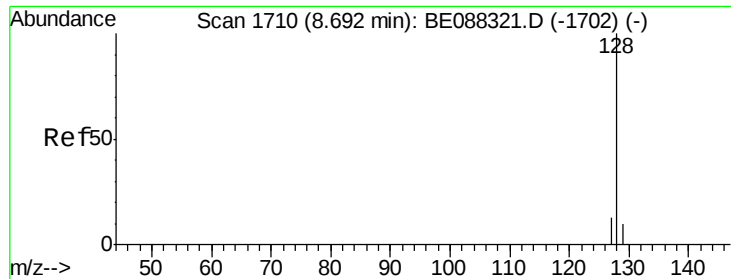
Acq: 27 Oct 2014 20:48

Tgt Ion:	82	Resp:	98287
Ion Ratio	Lower	Upper	
82	100		
128	48.7	38.7	58.1
54	50.9	41.0	61.4



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 4.96 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088323.D

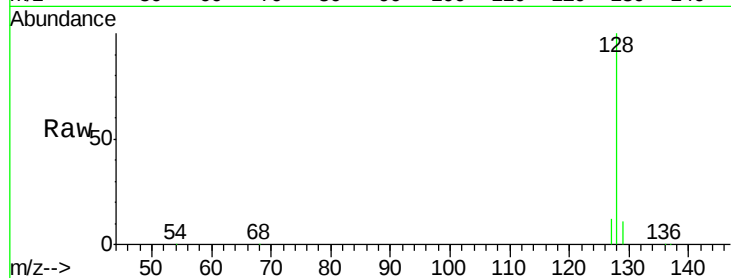
Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

ClientSampleId :

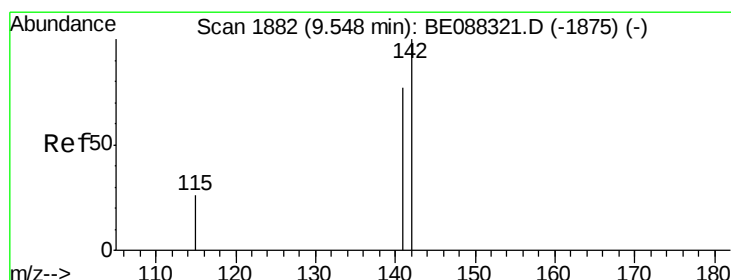
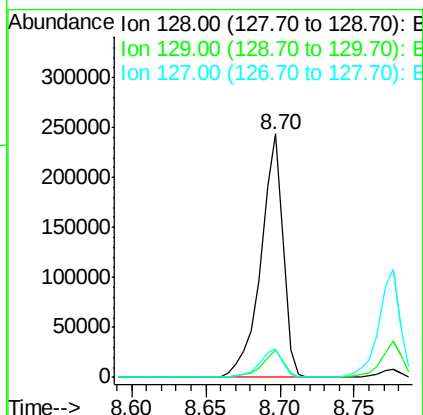
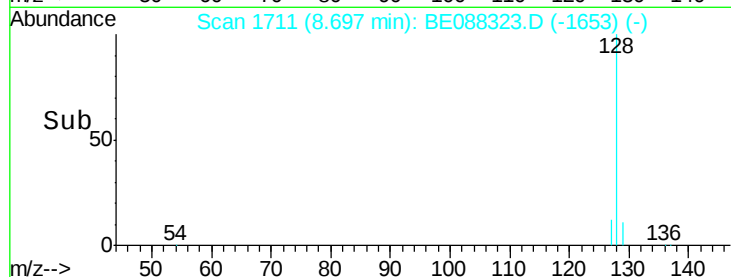
SSTDICC005



Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.5	12.7
127	12.0	10.2	15.2

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#6

2-Methylnaphthalene

Concen: 5.09 ng

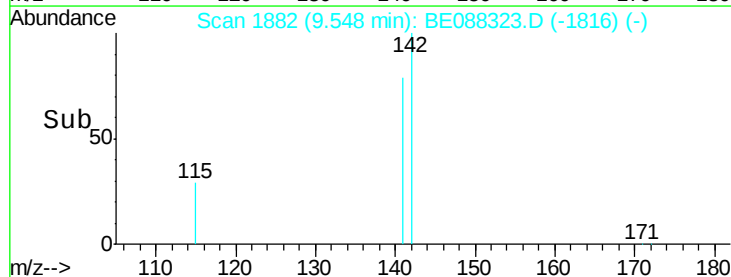
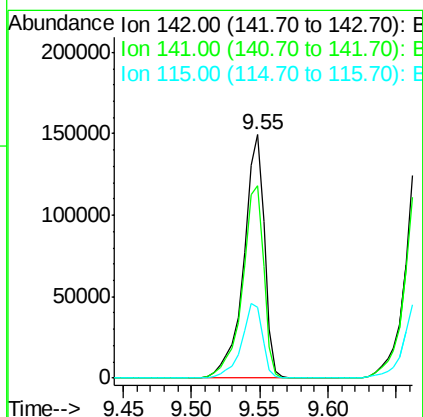
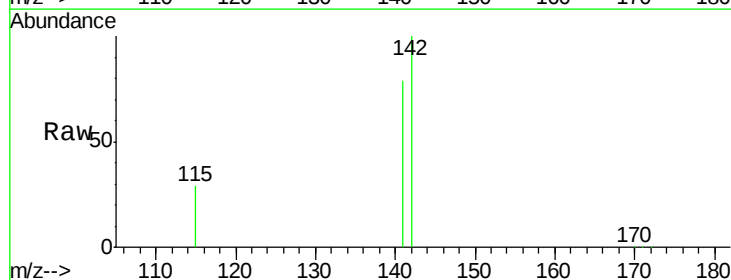
RT: 9.55 min Scan# 1882

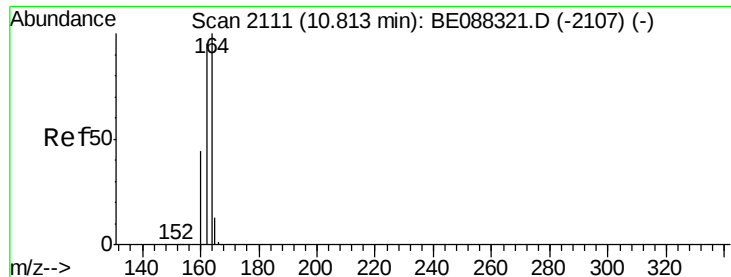
Delta R.T. 0.00 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

Tgt Ion	Ratio	Lower	Upper
142	100		
141	79.1	61.4	92.0
115	29.0	21.0	31.6





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.81 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088323.D

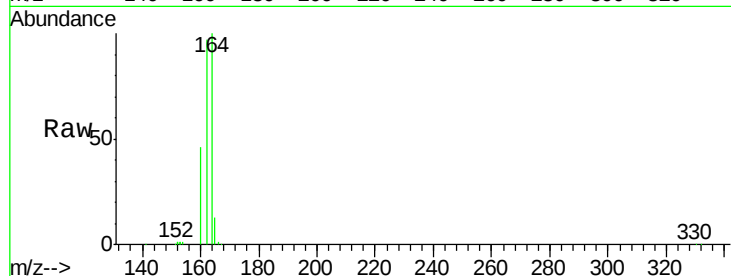
Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

ClientSampleId :

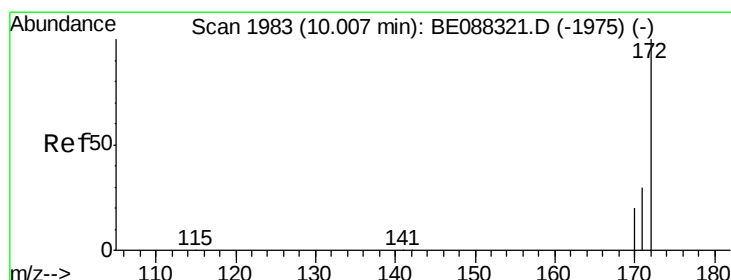
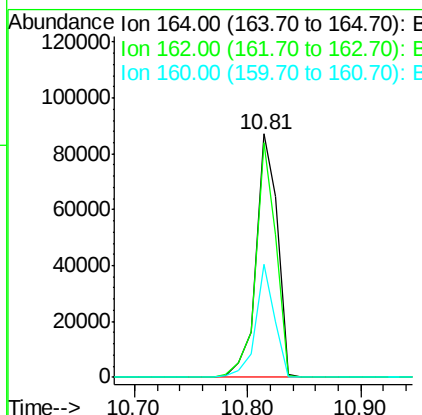
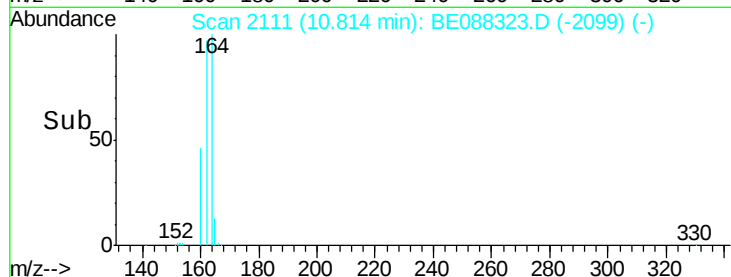
SSTDICC005



Tgt Ion	Ratio	Lower	Upper
164	100		
162	96.6	75.7	113.5
160	46.4	35.6	53.4

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#8

2-Fluorobiphenyl

Concen: 4.93 ng

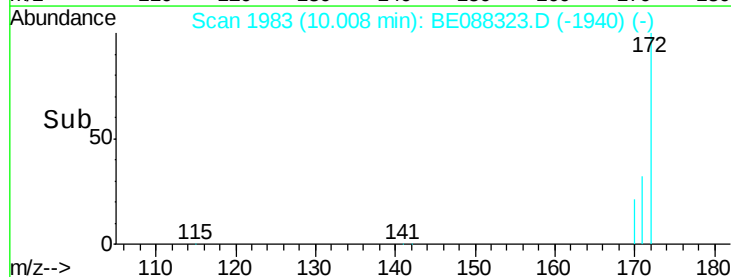
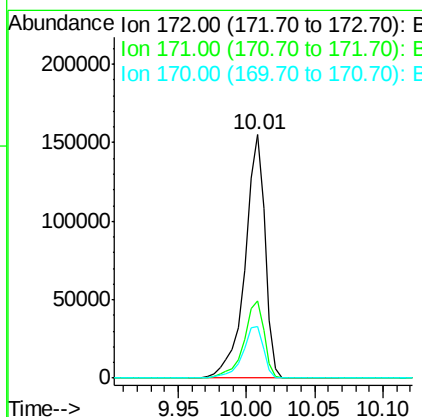
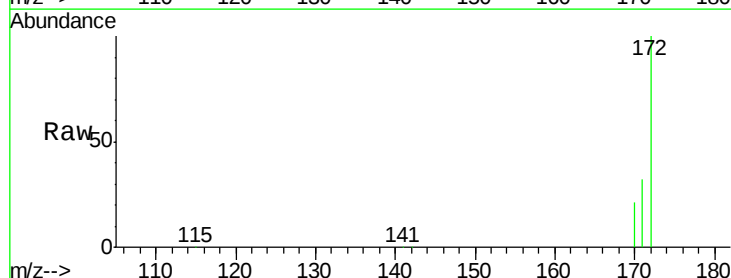
RT: 10.01 min Scan# 1983

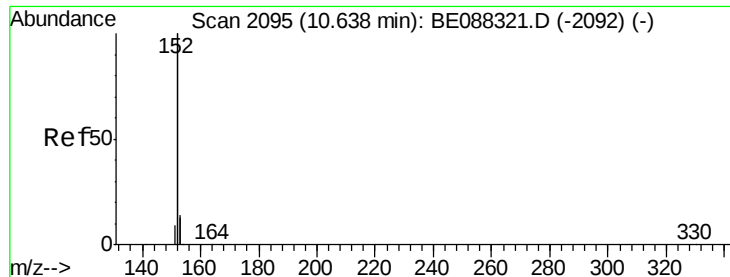
Delta R.T. 0.00 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.7	24.5	36.7
170	21.1	15.8	23.6





#9

Acenaphthylene

Concen: 5.00 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

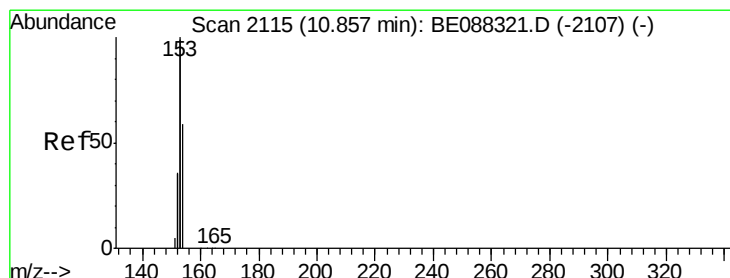
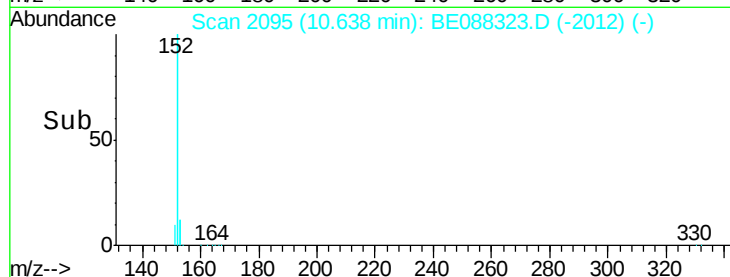
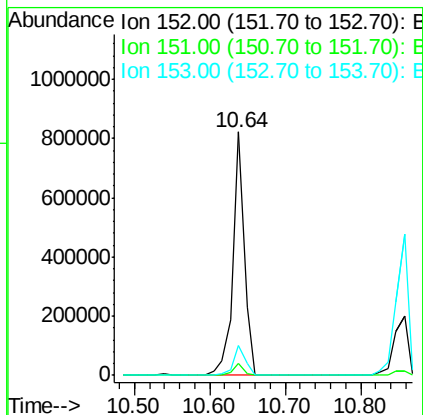
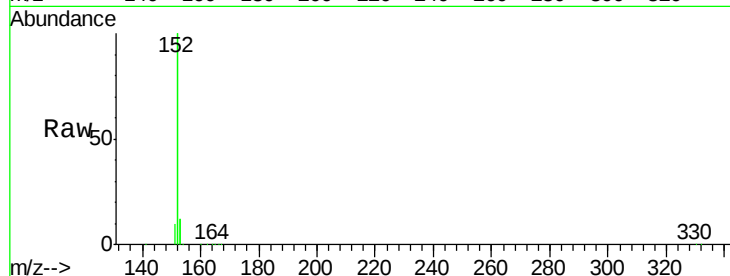
ClientSampleId :

SSTDICC005

Tgt Ion:	152	Resp:	861195
Ion Ratio	Lower	Upper	
152	100		
151	4.7	3.7	5.5
153	13.0	10.5	15.7

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#10

Acenaphthene

Concen: 4.71 ng

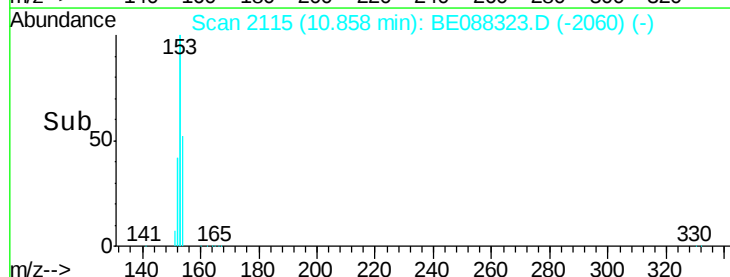
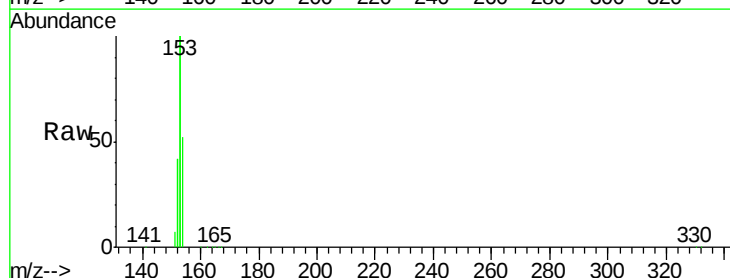
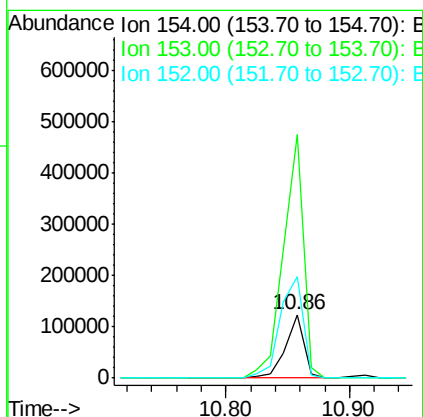
RT: 10.86 min Scan# 2115

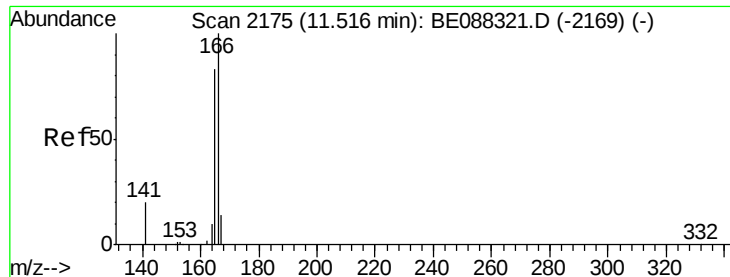
Delta R.T. 0.00 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

Tgt Ion:	154	Resp:	128089
Ion Ratio	Lower	Upper	
154	100		
153	413.6	323.8	485.6
152	198.6	154.8	232.2





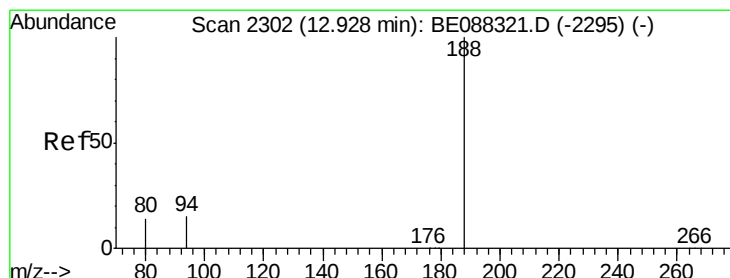
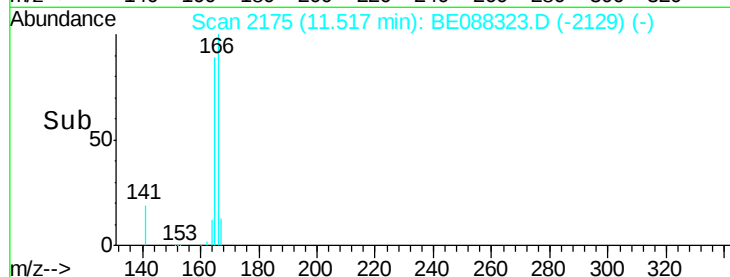
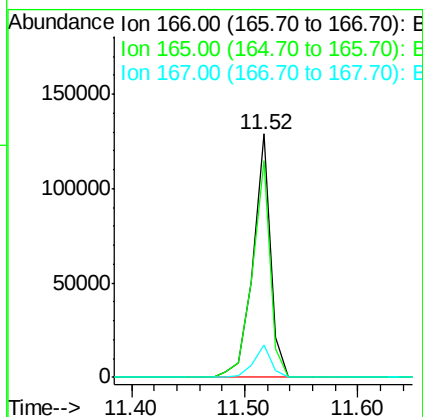
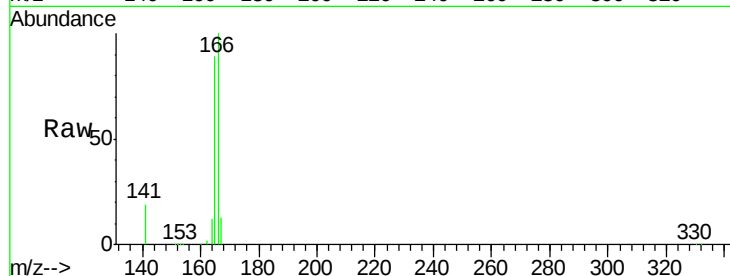
#11
Fluorene
 Concen: 5.00 ng
 RT: 11.52 min Scan# 2175
 Delta R.T. 0.00 min
 Lab File: BE088323.D
 Acq: 27 Oct 2014 20:48

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Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.2	70.6	105.8
167	13.5	10.7	16.1

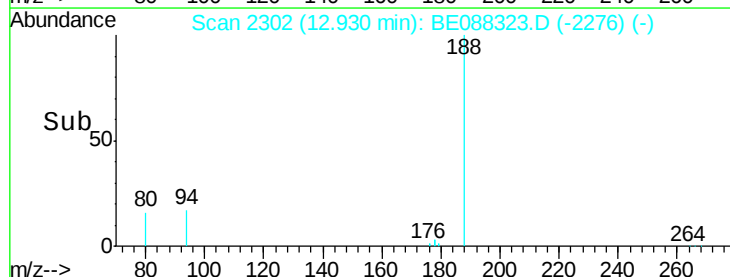
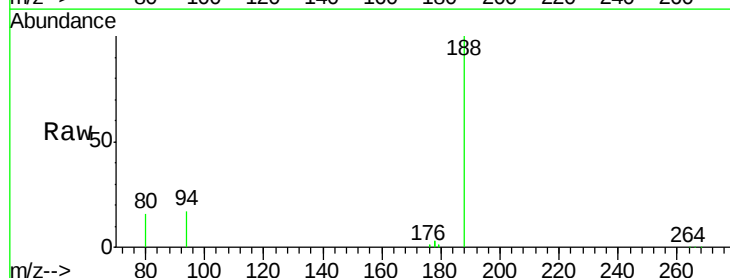
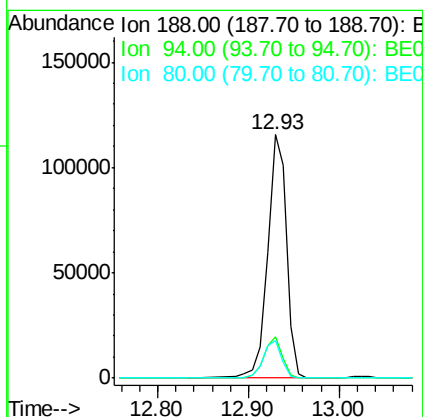
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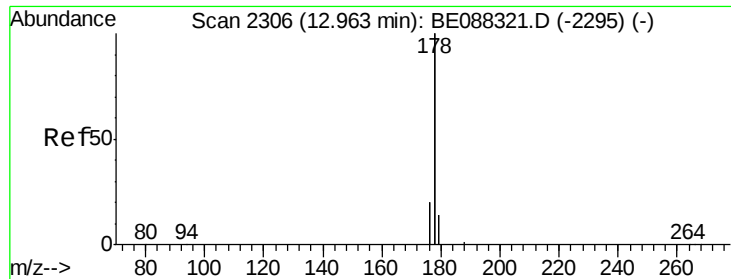
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#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.93 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BE088323.D
 Acq: 27 Oct 2014 20:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	16.7	12.0	18.0
80	15.6	11.3	16.9





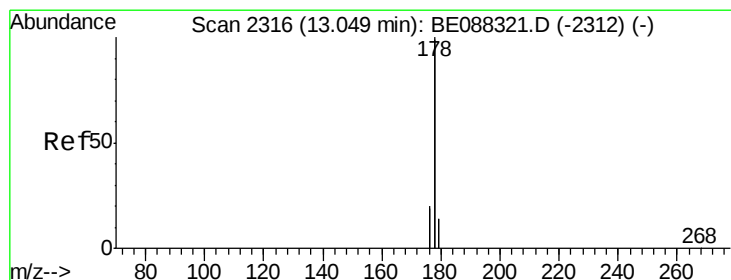
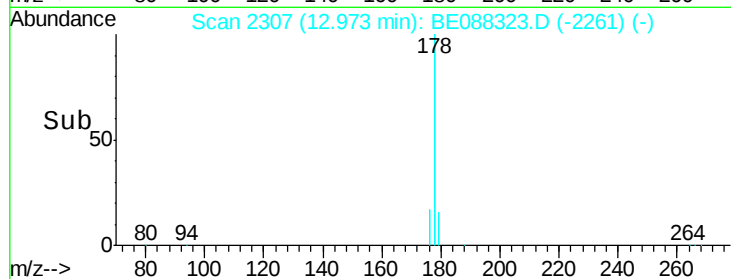
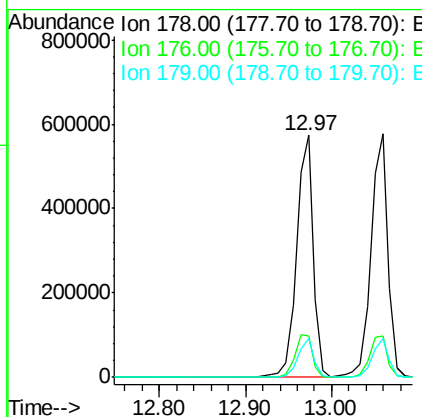
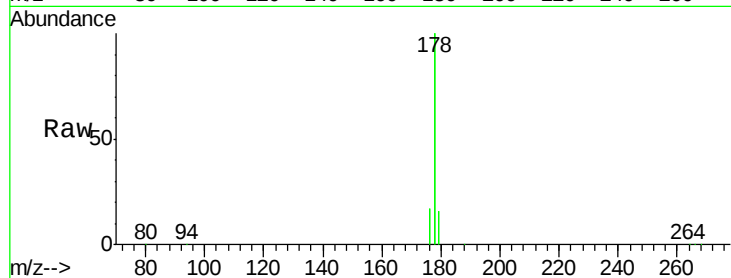
#13
Phenanthrene
Concen: 4.74 ng
RT: 12.97 min Scan# 2307
Delta R.T. 0.01 min
Lab File: BE088323.D
Acq: 27 Oct 2014 20:48

Instrument :
BNA_E
ClientSampleId :
SSTDIC005

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.6
179	15.6	13.2	19.8

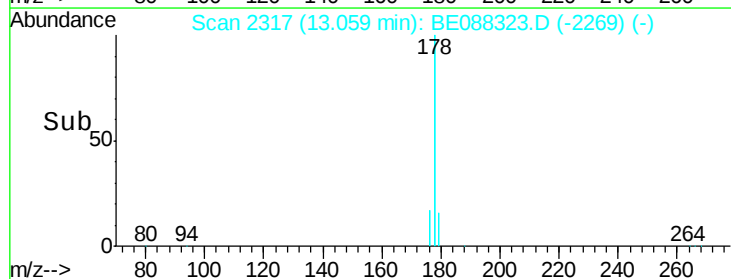
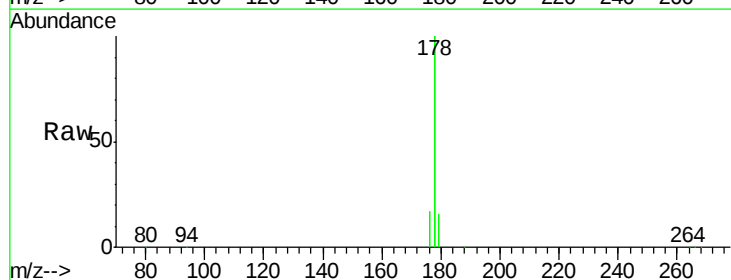
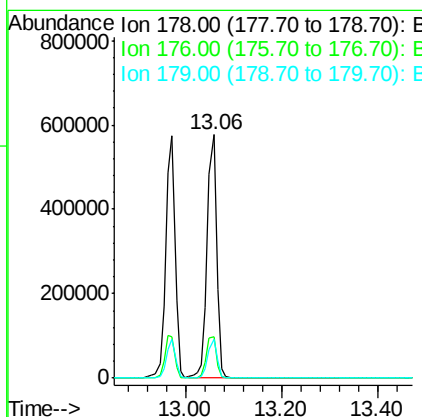
Manual Integrations
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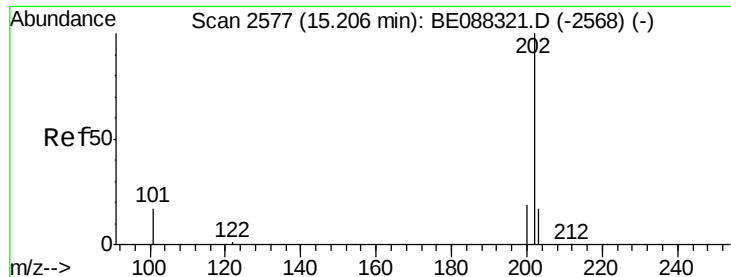
mohammad
10/29/2014 11:11:28 AM



#14
Anthracene
Concen: 5.19 ng
RT: 13.06 min Scan# 2317
Delta R.T. 0.01 min
Lab File: BE088323.D
Acq: 27 Oct 2014 20:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	21.8
179	15.3	12.6	18.8





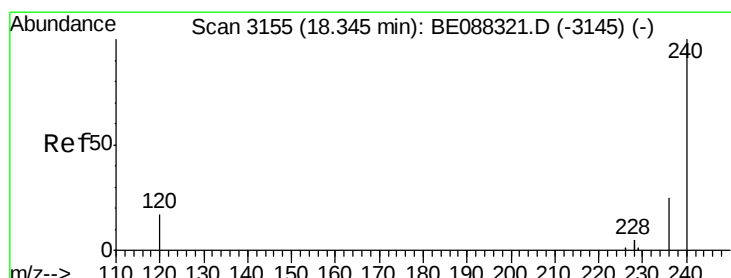
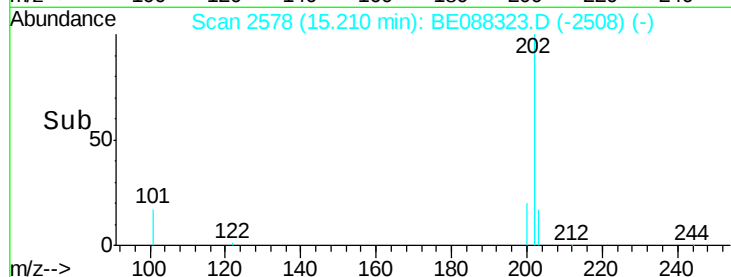
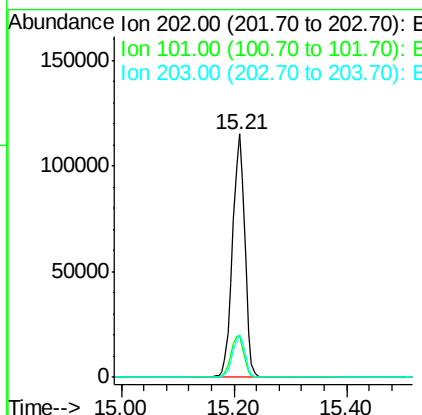
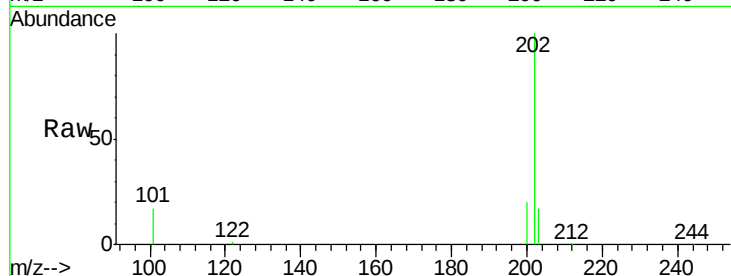
#15
Fluoranthene
 Concen: 5.56 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. 0.00 min
 Lab File: BE088323.D
 Acq: 27 Oct 2014 20:48

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	175222		
101	17.9	14.6	21.8	
203	17.3	13.8	20.6	

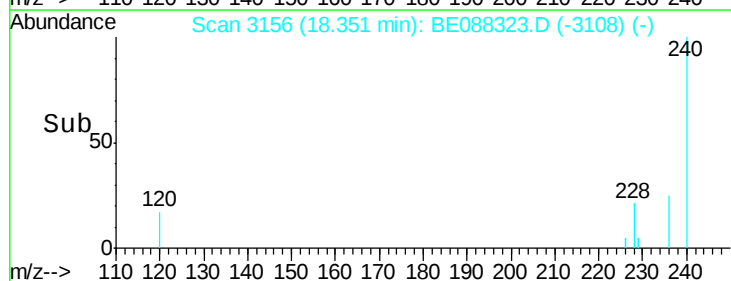
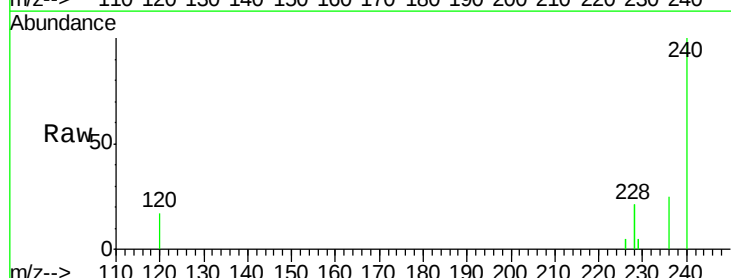
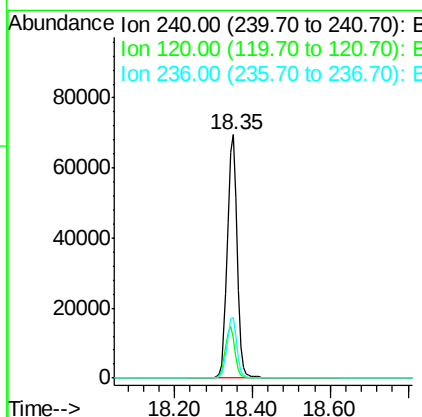
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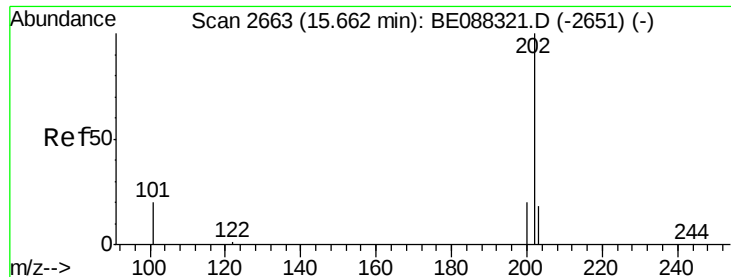
mohammad
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#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3156
 Delta R.T. 0.01 min
 Lab File: BE088323.D
 Acq: 27 Oct 2014 20:48

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	119928		
120	16.6	13.4	20.0	
236	24.9	20.0	30.0	





#17

Pyrene

Concen: 5.55 ng

RT: 15.67 min Scan# 2664

Delta R.T. 0.00 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

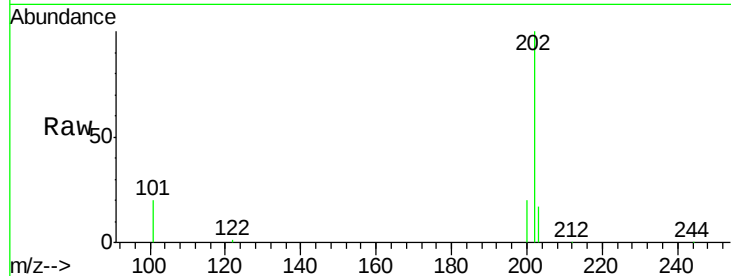
ClientSampleId :

SSTDIC005

Tgt Ion:	202	Resp:	182840
Ion Ratio	Lower	Upper	
202	100		
200	20.3	16.1	24.1
203	17.4	13.9	20.9

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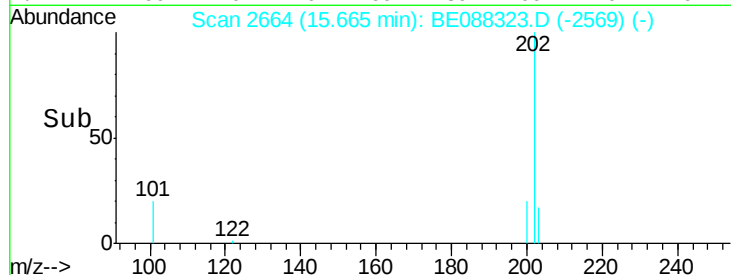
Abundance

Ion 202.00 (201.70 to 202.70): E

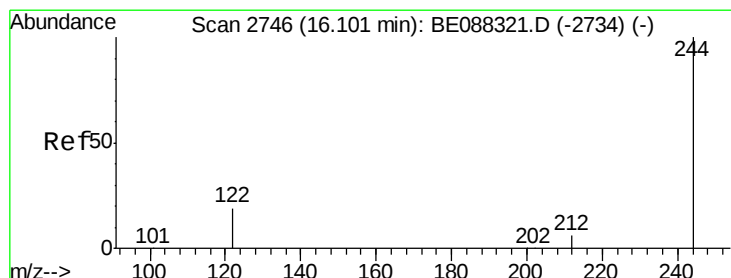
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

15.67



Time--> 15.40 15.60 15.80 16.00



#18

Terphenyl-d14

Concen: 5.68 ng

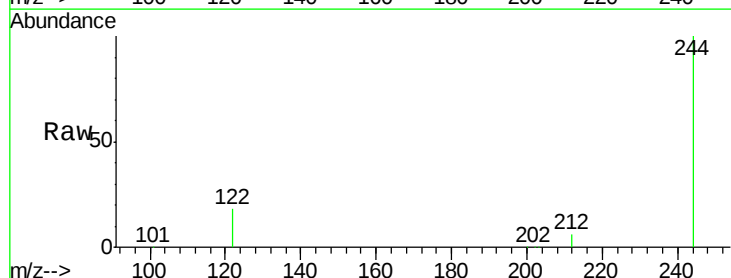
RT: 16.11 min Scan# 2747

Delta R.T. 0.00 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

Tgt Ion:	244	Resp:	112477
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.1	7.7
122	18.2	15.8	23.8



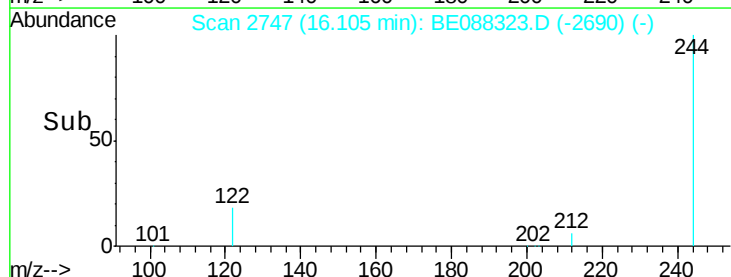
Abundance

Ion 244.00 (243.70 to 244.70): E

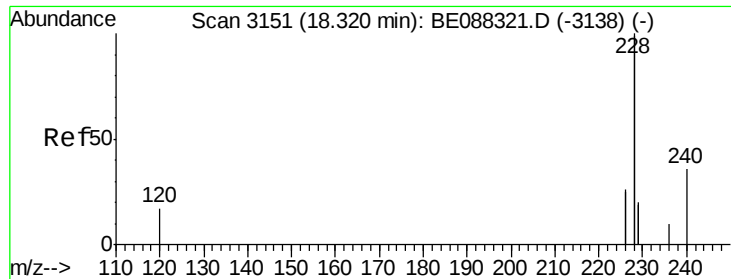
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

16.11



Time--> 16.00 16.20 16.40



#19

Benzo(a)anthracene

Concen: 5.78 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.01 min

Lab File: BE088323.D

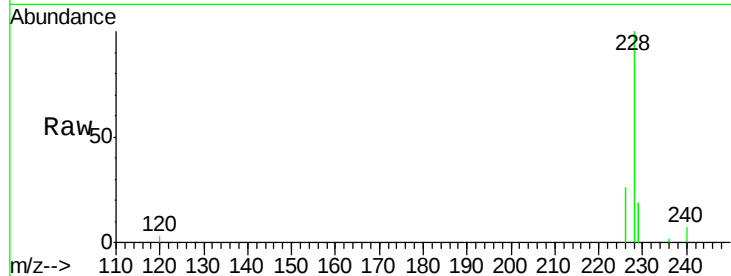
Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

ClientSampleId :

SSTDICC005



Tgt Ion: 228 Resp: 549432

Ion Ratio Lower Upper

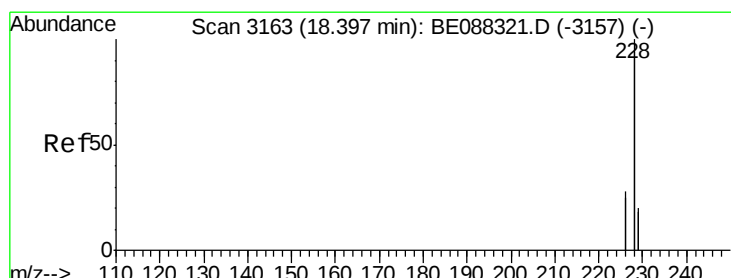
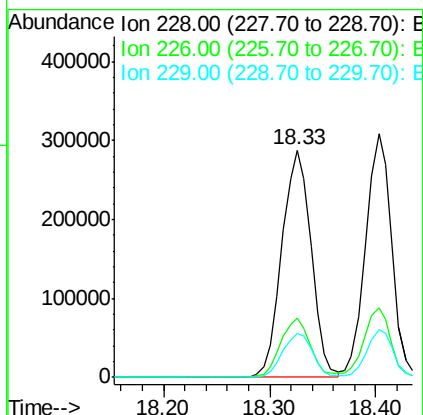
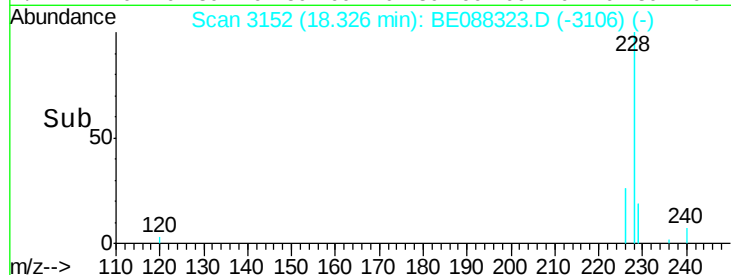
228 100

226 26.0 20.7 31.1

229 19.5 15.7 23.5

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#20

Chrysene

Concen: 5.04 ng

RT: 18.40 min Scan# 3164

Delta R.T. 0.01 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

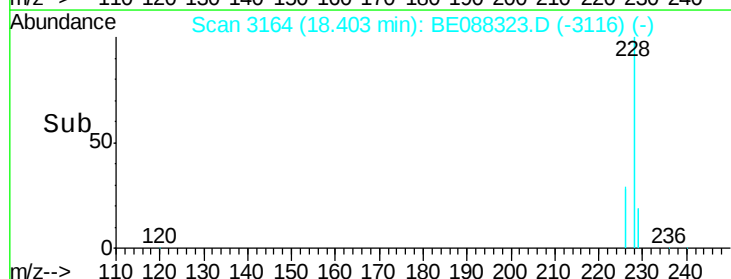
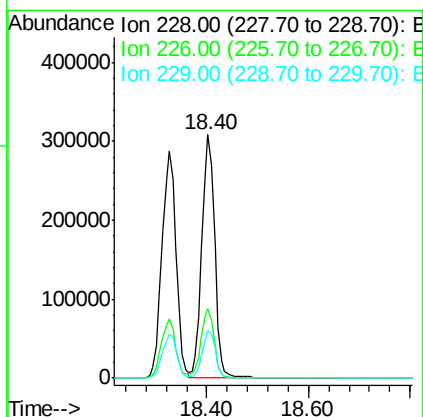
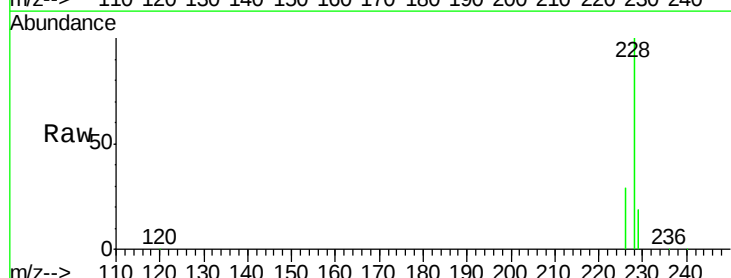
Tgt Ion: 228 Resp: 533889

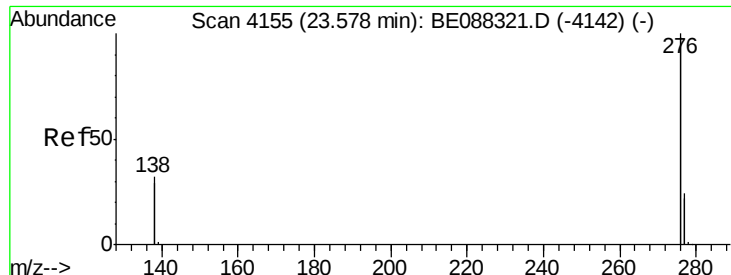
Ion Ratio Lower Upper

228 100

226 28.6 22.7 34.1

229 19.4 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 7.45 ng m

RT: 23.59 min Scan# 4157

Delta R.T. 0.01 min

Lab File: BE088323.D

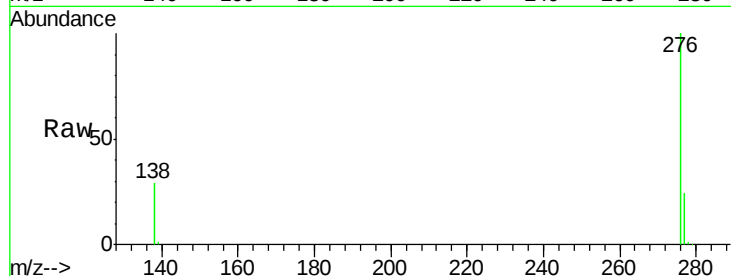
Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

ClientSampleId :

SSTDIC005



Tgt Ion: 276 Resp: 597241

Ion Ratio Lower Upper

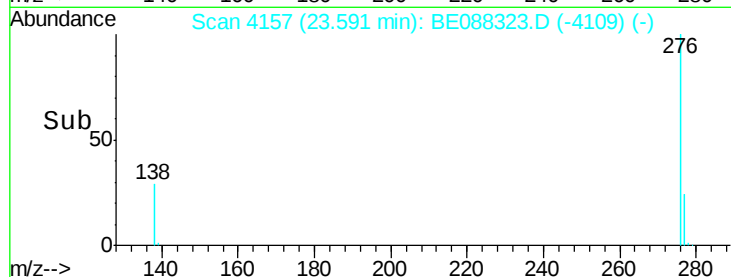
276 100

138 23.3 24.6 37.0#

277 18.8 19.0 28.6#

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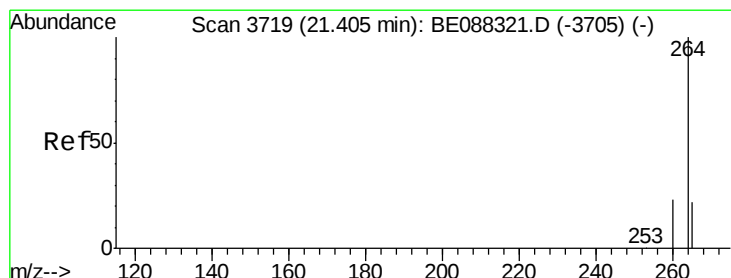
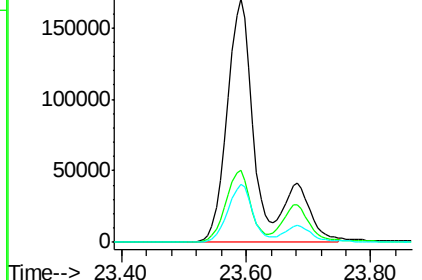
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Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.41 min Scan# 3719

Delta R.T. 0.00 min

Lab File: BE088323.D

Acq: 27 Oct 2014 20:48

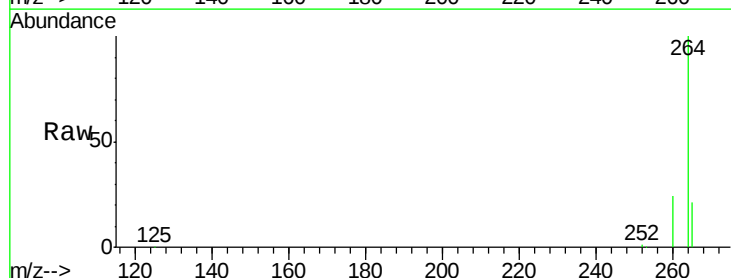
Tgt Ion: 264 Resp: 111926

Ion Ratio Lower Upper

264 100

260 23.8 18.9 28.3

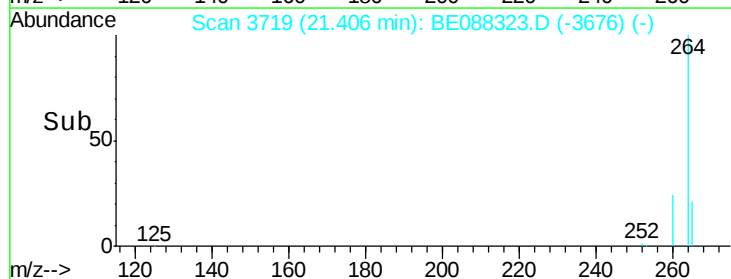
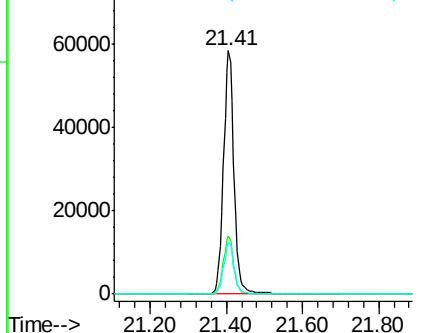
265 21.4 17.4 26.0

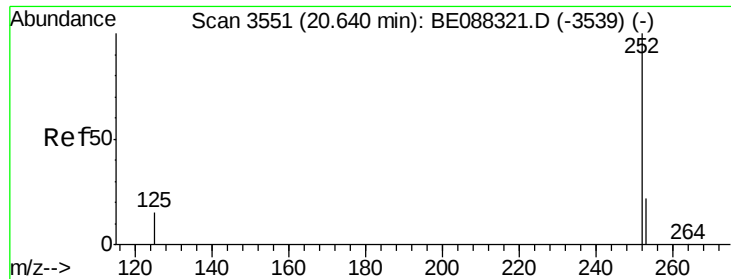


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 6.80 ng

RT: 20.65 min Scan# 3553

Delta R.T. 0.01 min

Lab File: BE088323.D

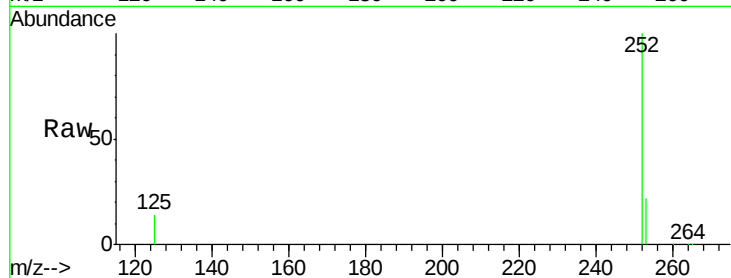
Acq: 27 Oct 2014 20:48

Instrument :

BNA_E

ClientSampleId :

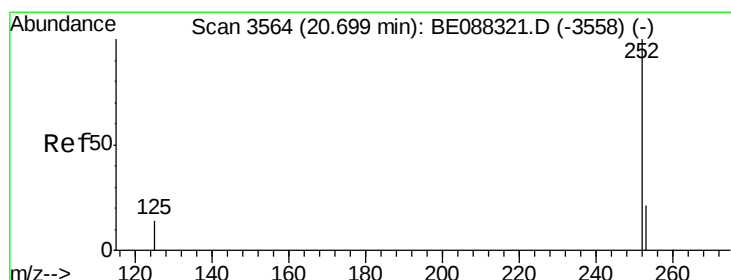
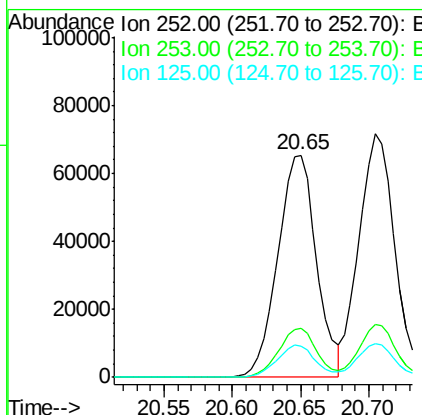
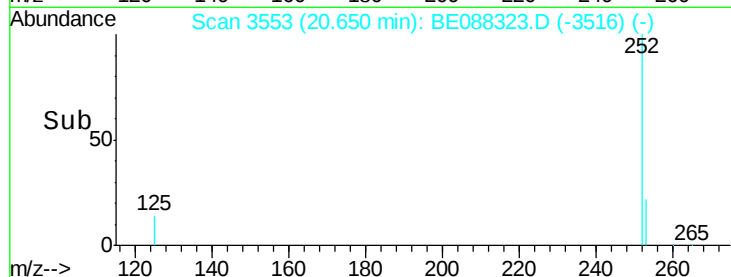
SSTDIC005



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	14.1	12.2	18.2

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#24

Benzo(k)fluoranthene

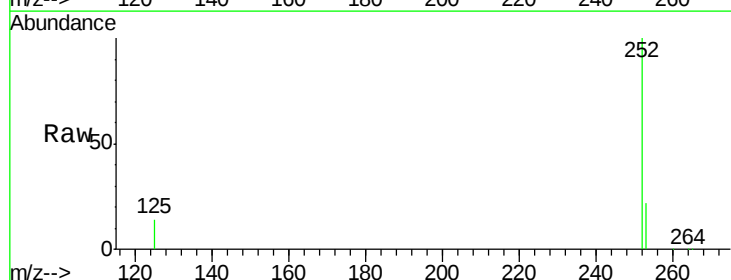
Concen: 4.73 ng

RT: 20.70 min Scan# 3565

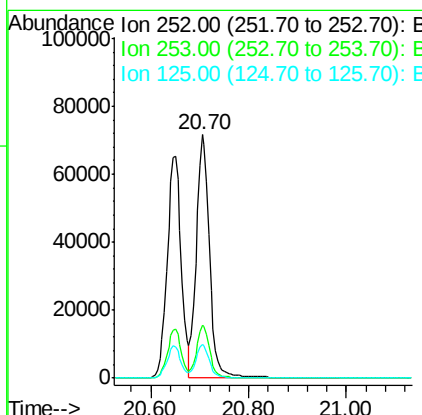
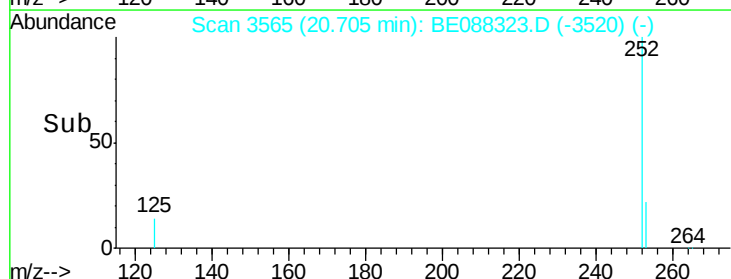
Delta R.T. 0.01 min

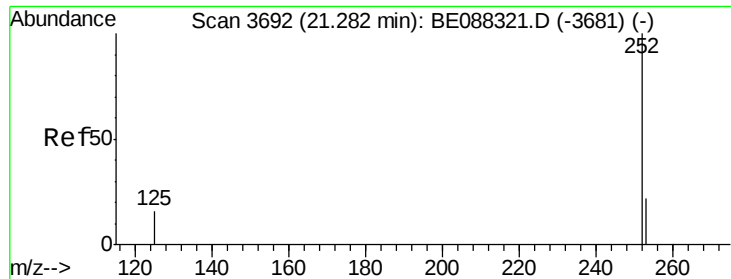
Lab File: BE088323.D

Acq: 27 Oct 2014 20:48



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	14.0	11.9	17.9





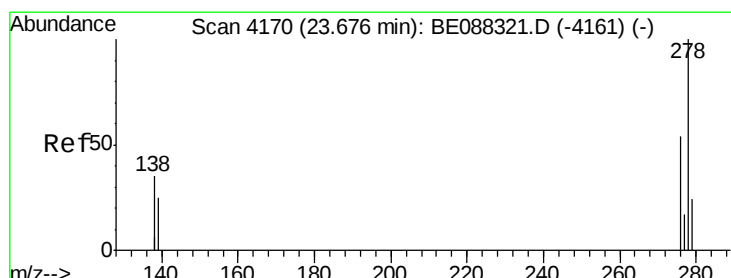
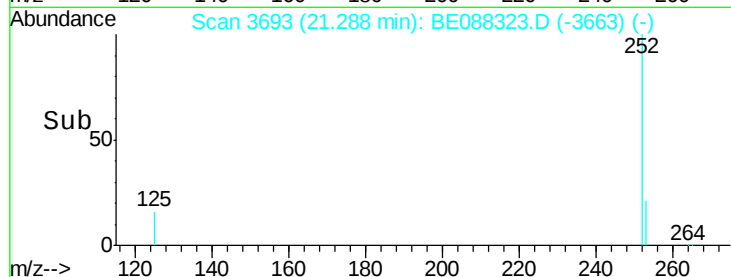
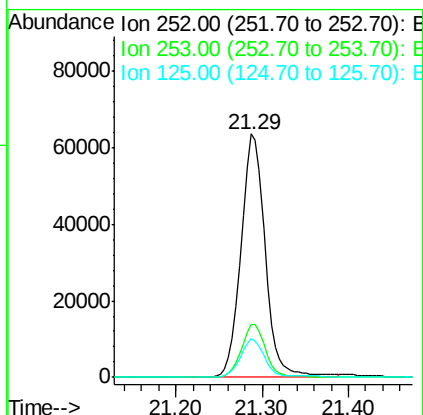
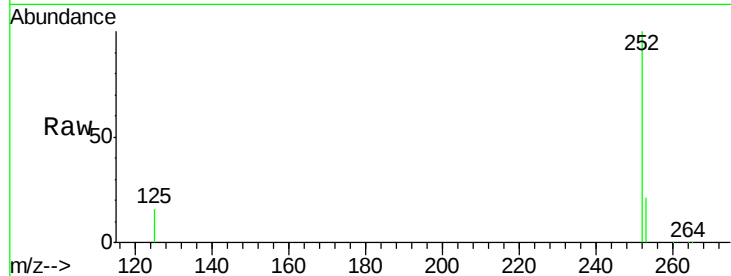
#25
Benzo(a)pyrene
Concen: 6.70 ng
RT: 21.29 min Scan# 3693
Delta R.T. 0.01 min
Lab File: BE088323.D
Acq: 27 Oct 2014 20:48

Instrument :
BNA_E
ClientSampleId :
SSTDIC005

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.7	26.5
125	15.7	13.2	19.8

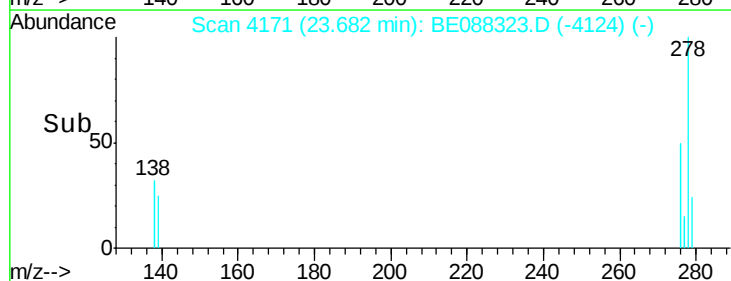
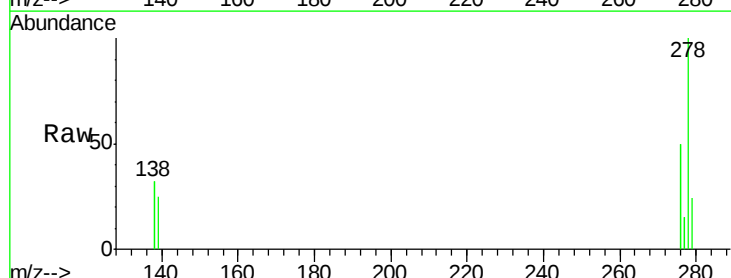
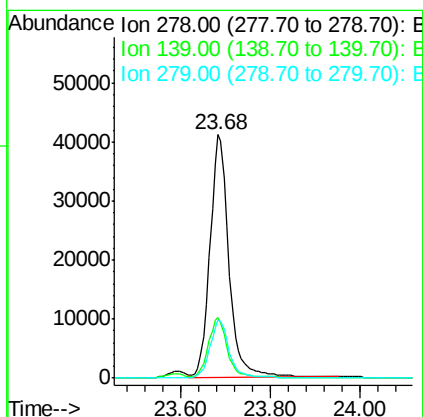
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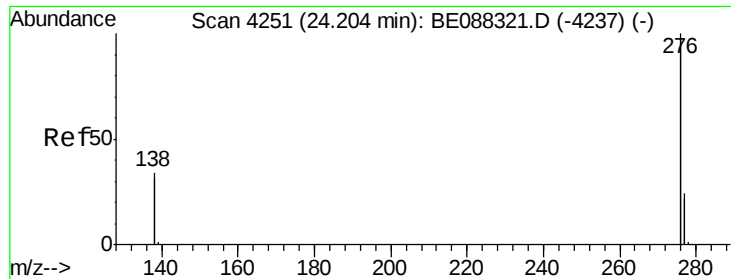
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#26
Dibenzo(a,h)anthracene
Concen: 7.04 ng
RT: 23.68 min Scan# 4171
Delta R.T. 0.01 min
Lab File: BE088323.D
Acq: 27 Oct 2014 20:48

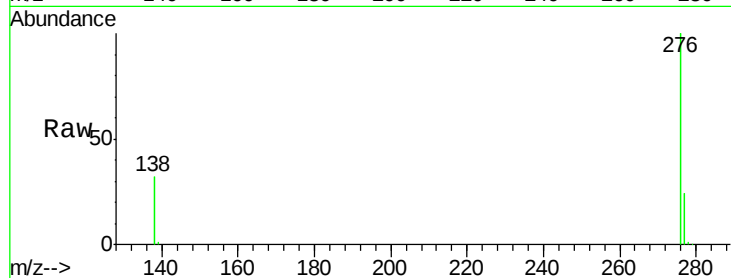
Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.7	21.0	31.4
279	24.1	19.8	29.8





#27
 Benzo(g,h,i)perylene
 Concen: 5.81 ng
 RT: 24.22 min Scan# 4254
 Delta R.T. 0.02 min
 Lab File: BE088323.D
 Acq: 27 Oct 2014 20:48

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005



Tgt	Ion	276	Resp:	522894
Ion	Ratio	Lower	Upper	
276	100			
277	23.9	19.1	28.7	
138	31.6	27.0	40.4	

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