

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089813.D
 Acq On : 24 Mar 2015 13:28
 Operator : TP/JJ
 Sample : SSTDICC0.5
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Manual Integrations
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mohammad
 3/25/2015 5:43:35 PM

Quant Time: Mar 24 14:31:42 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 24 14:06:53 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	152202	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	645768	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	350244	5.00	ng	0.01
13) Phenanthrene-d10	17.92	188	638225	5.00	ng	0.00
19) Chrysene-d12	24.26	240	500309	5.00	ng	0.00
25) Perylene-d12	27.41	264	381761	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	14403	0.39	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	35113	0.39	ng	0.00
21) Terphenyl-d14	21.86	244	34514	0.50	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	9588	0.49	ng	# 89
3) n-Nitrosodimethylamine	2.95	42	13419	0.77	ng	# 91
6) Naphthalene	10.31	128	60551	0.45	ng	95
7) 2-Methylnaphthalene	11.93	142	32868	0.42	ng	98
10) Acenaphthylene	14.04	152	219552	0.39	ng	98
11) Acenaphthene	14.46	154	35137	0.41	ng	84
12) Fluorene	15.71	166	43106	0.45	ng	93
14) Hexachlorobenzene	16.98	284	9326	0.47	ng	98
15) Pentachlorophenol	17.50	266	5638	0.07	ng	96
16) Phenanthrene	17.97	178	63250	0.42	ng	99
17) Anthracene	18.10	178	54449	0.42	ng	99
18) Fluoranthene	20.82	202	55352	0.47	ng	98
20) Pyrene	21.34	202	58618	0.35	ng	99
22) Benzo(a)anthracene	24.24	228	39744	0.15	ng	98
23) Chrysene	24.32	228	46519	0.10	ng	99
24) Indeno(1,2,3-cd)pyrene	29.38	276	14637m	0.17	ng	
26) Benzo(b)fluoranthene	26.64	252	21304	0.67	ng	98
27) Benzo(k)fluoranthene	26.70	252	33466m	0.41	ng	
28) Benzo(a)pyrene	27.29	252	19452m	0.51	ng	
29) Dibenzo(a,h)anthracene	29.44	278	10051	0.51	ng	# 85
30) Benzo(g,h,i)perylene	29.83	276	18621	0.12	ng	# 88

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

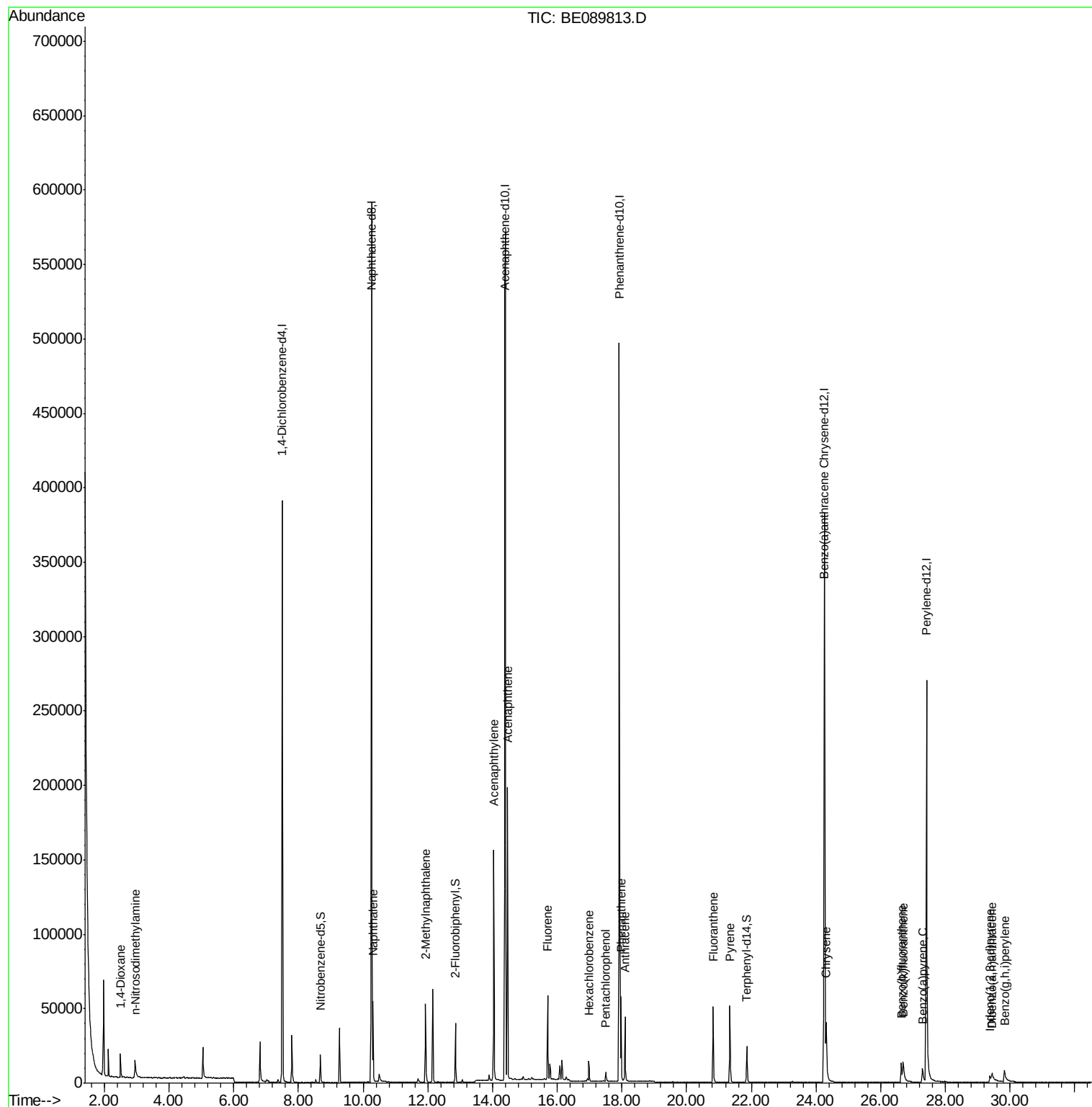
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
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ALS Vial : 4 Sample Multiplier: 1

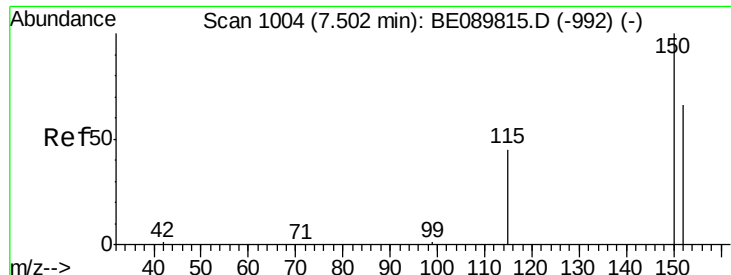
Instrument :
BNA_E
ClientSampleId :
SSTDICC0.5

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.50 min Scan# 1003

Delta R.T. -0.00 min

Lab File: BE089813.D

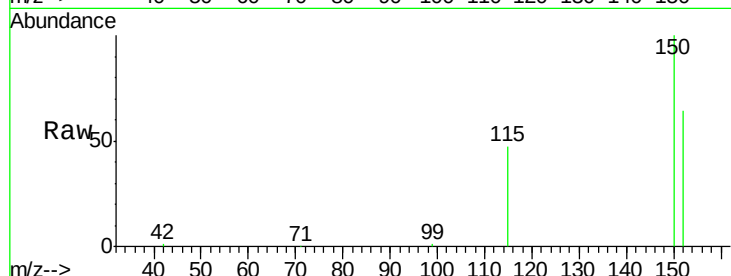
Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5



Tgt Ion: 152 Resp: 152202

Ion Ratio Lower Upper

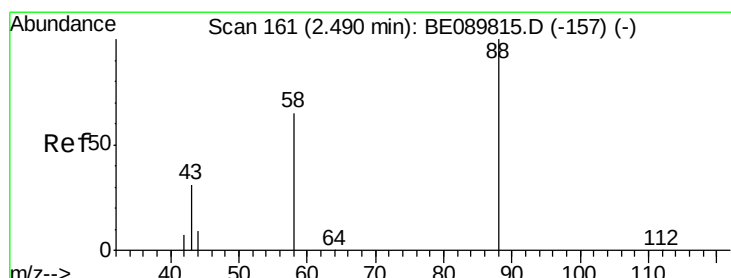
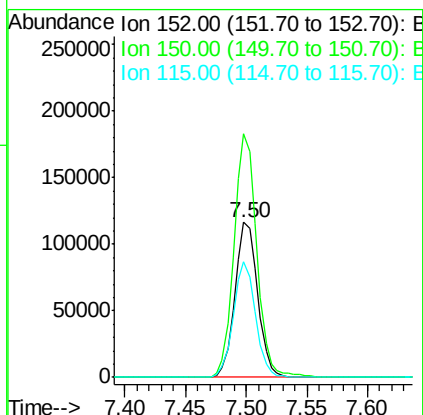
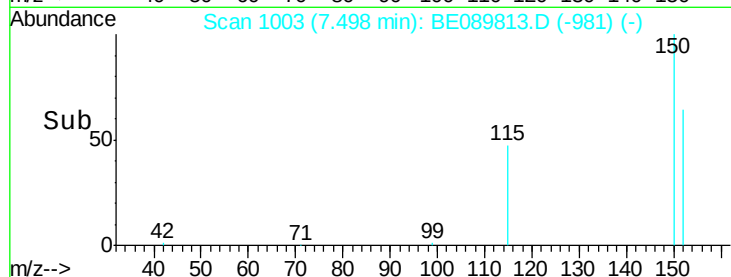
152 100

150 157.0 125.5 188.3

115 74.3 58.0 87.0

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#2

1,4-Dioxane

Concen: 0.49 ng

RT: 2.50 min Scan# 162

Delta R.T. -0.03 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

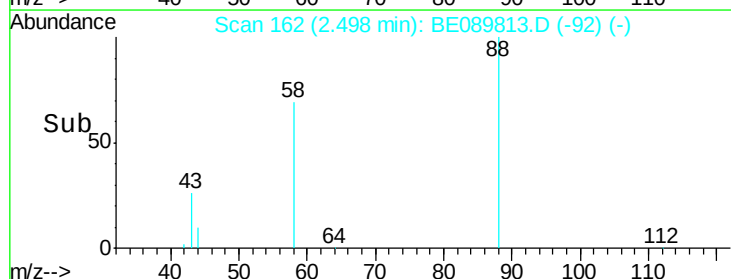
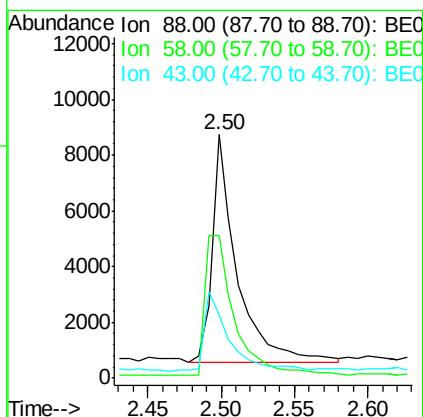
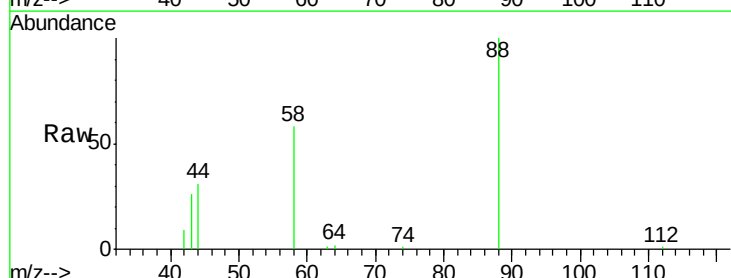
Tgt Ion: 88 Resp: 9588

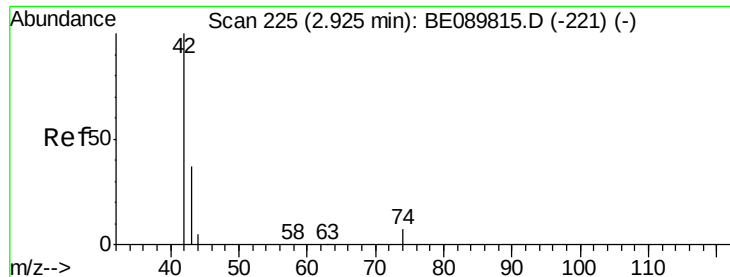
Ion Ratio Lower Upper

88 100

58 74.1 48.6 72.8#

43 35.4 28.6 43.0





#3

n-Nitrosodimethylamine

Concen: 0.77 ng

RT: 2.95 min Scan# 228

Delta R.T. -0.05 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

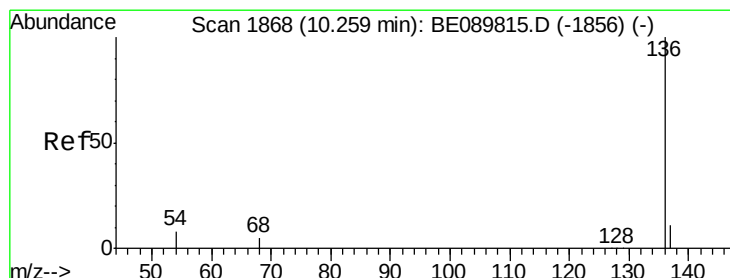
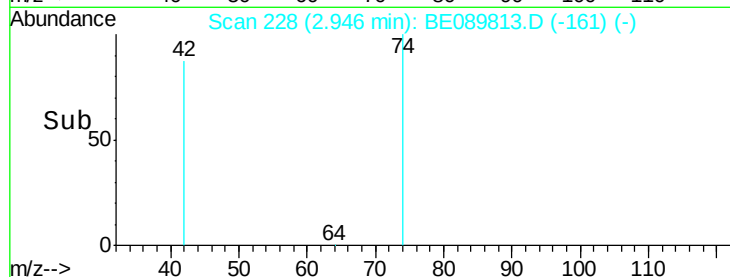
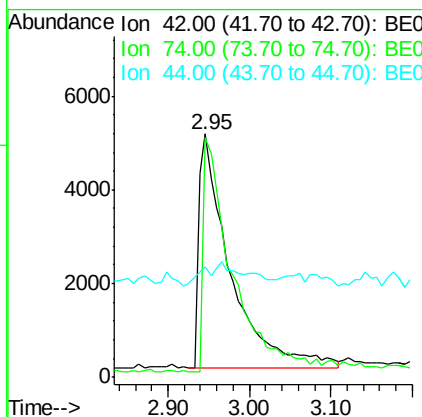
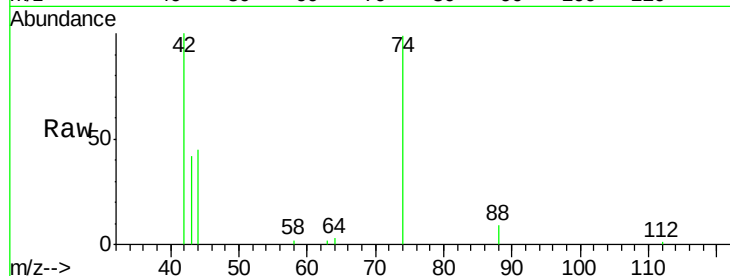
ClientSampleId :

SSTDIC0.5

Tgt Ion:	42	Resp:	13419
Ion Ratio	Lower	Upper	
42	100		
74	93.6	68.7	103.1
44	3.7	6.2	9.4#

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#4

Naphthalene-d8

Concen: 5.00 ng

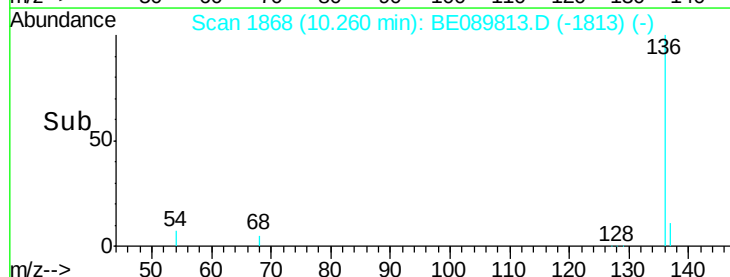
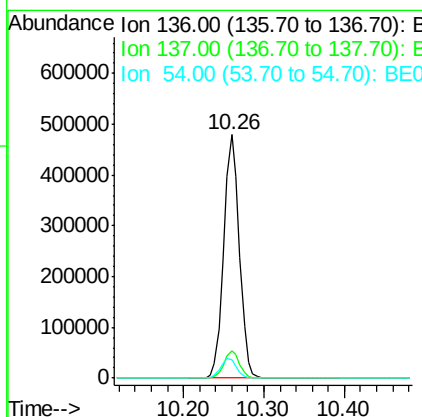
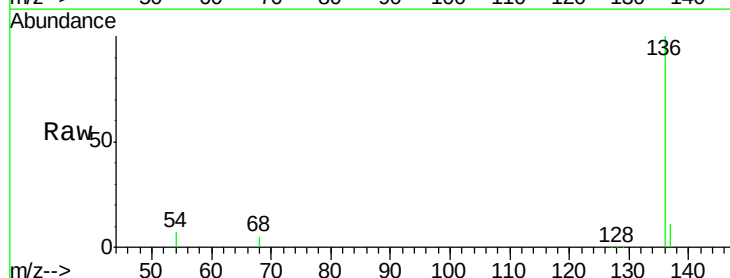
RT: 10.26 min Scan# 1868

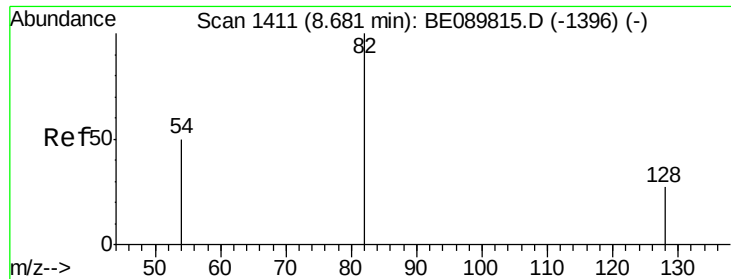
Delta R.T. 0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Tgt Ion:	136	Resp:	645768
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.8	13.2
54	7.5	7.0	10.4





#5

Nitrobenzene-d5

Concen: 0.39 ng

RT: 8.68 min Scan# 1410

Delta R.T. -0.00 min

Lab File: BE089813.D

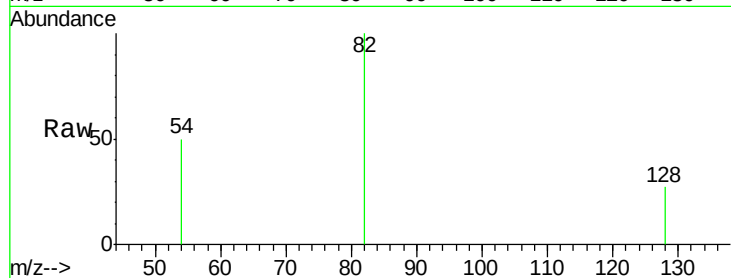
Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

ClientSampleId :

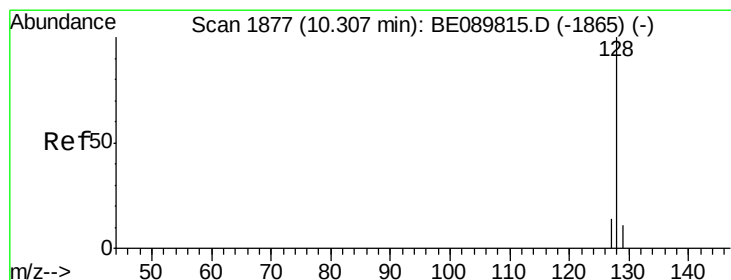
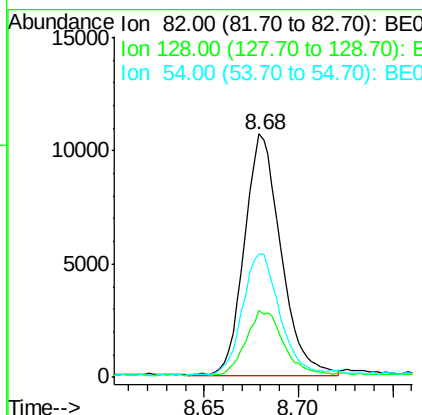
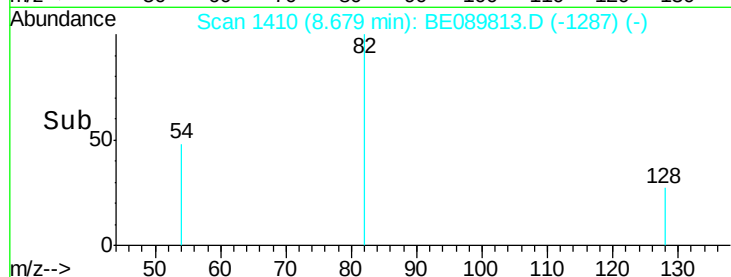
SSTDICC0.5



Tgt Ion:	82	Resp:	14403
Ion Ratio	Lower	Upper	
82	100		
128	27.3	24.6	37.0
54	50.4	43.0	64.6

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#6

Naphthalene

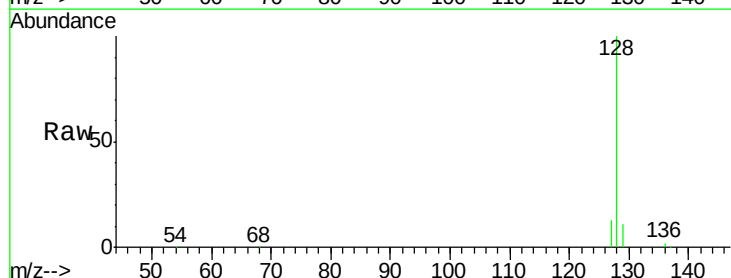
Concen: 0.45 ng

RT: 10.31 min Scan# 1877

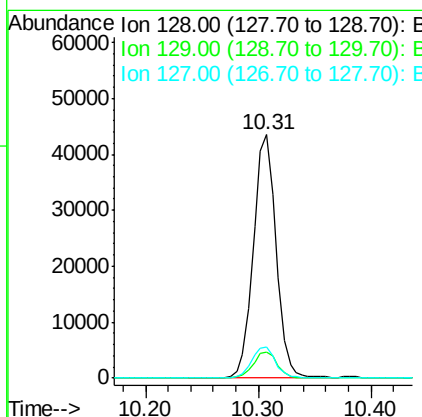
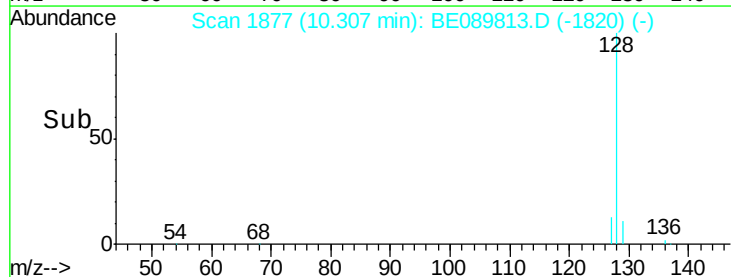
Delta R.T. 0.00 min

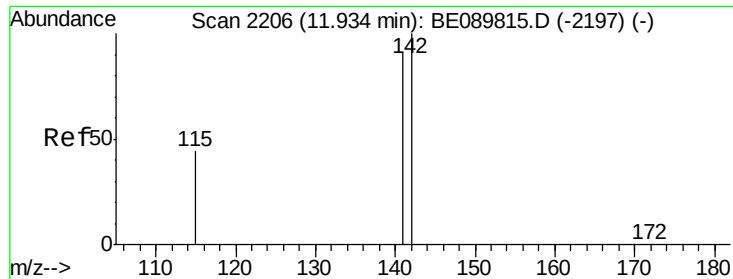
Lab File: BE089813.D

Acq: 24 Mar 2015 13:28



Tgt Ion:	128	Resp:	60551
Ion Ratio	Lower	Upper	
128	100		
129	10.8	10.0	15.0
127	13.0	12.5	18.7





#7

2-Methylnaphthalene

Concen: 0.42 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

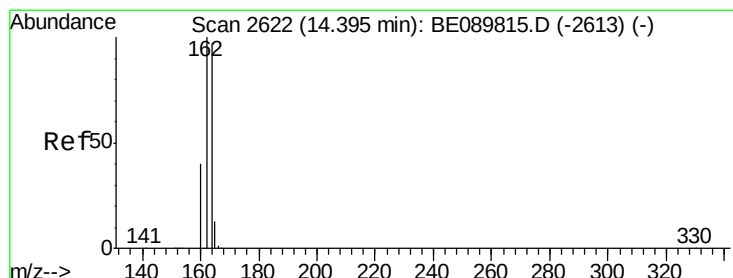
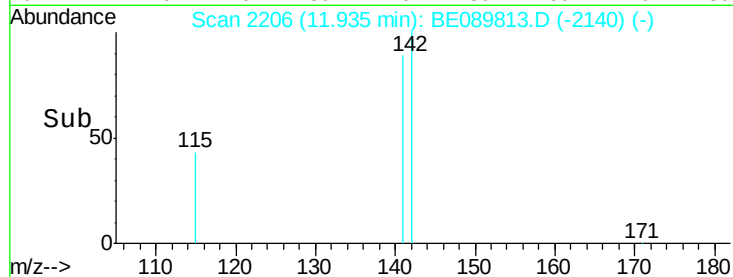
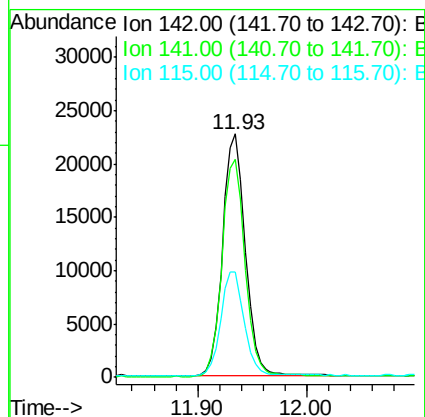
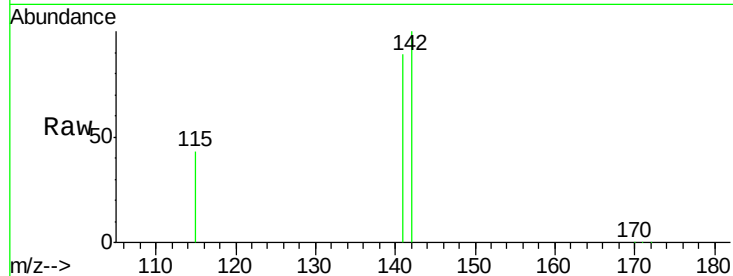
ClientSampleId :

SSTDIC0.5

Tgt Ion:	142	Resp:	32868
Ion Ratio	Lower	Upper	
142	100		
141	89.3	72.8	109.2
115	43.4	32.9	49.3

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#8

Acenaphthene-d10

Concen: 5.00 ng

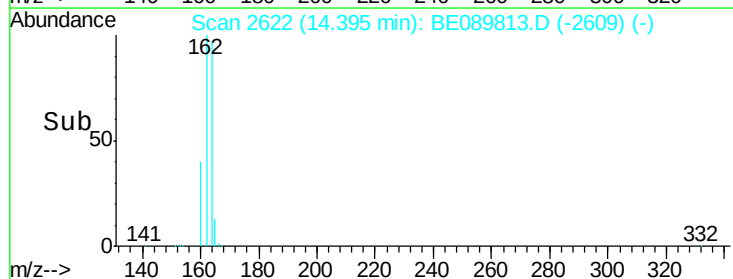
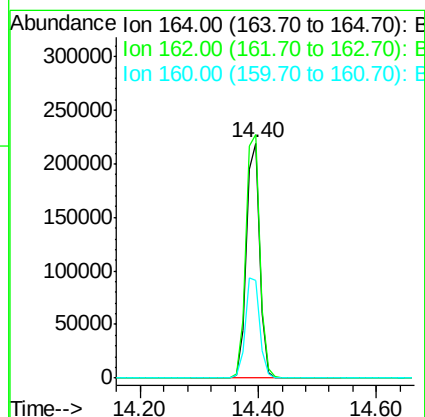
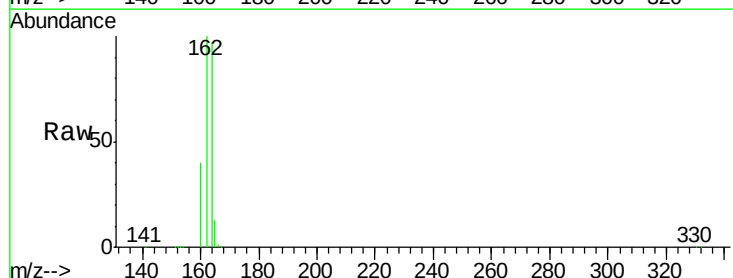
RT: 14.40 min Scan# 2622

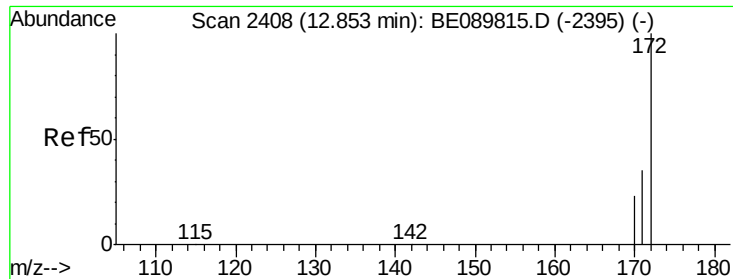
Delta R.T. 0.01 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Tgt Ion:	164	Resp:	350244
Ion Ratio	Lower	Upper	
164	100		
162	103.5	87.6	131.4
160	41.5	36.7	55.1





#9

2-Fluorobiphenyl

Concen: 0.39 ng

RT: 12.85 min Scan# 2408

Delta R.T. 0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

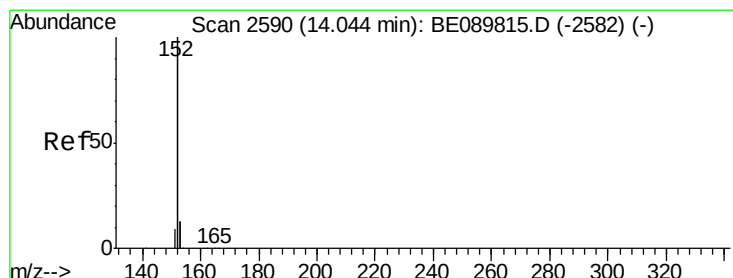
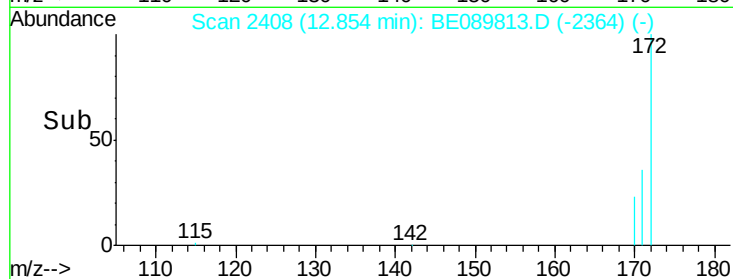
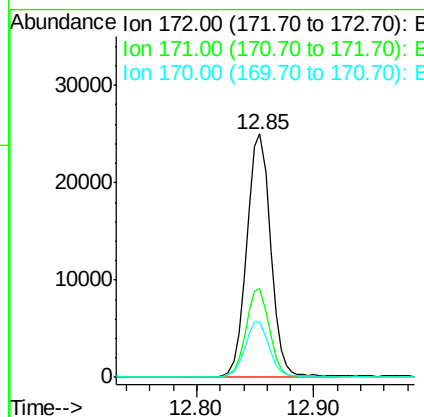
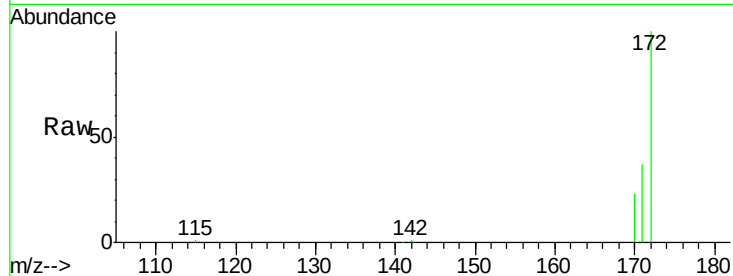
ClientSampleId :

SSTDIC0.5

Tgt Ion:	172	Resp:	35113
Ion Ratio	Lower	Upper	
172	100		
171	36.7	30.8	46.2
170	22.8	21.0	31.4

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#10

Acenaphthylene

Concen: 0.39 ng

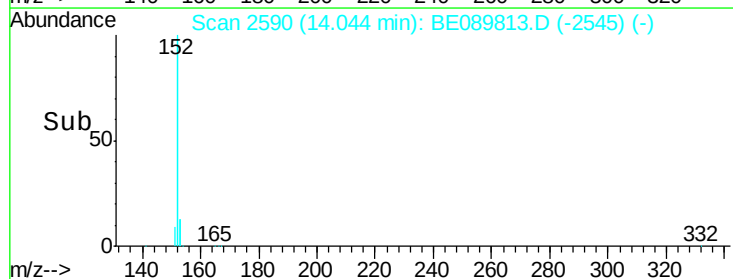
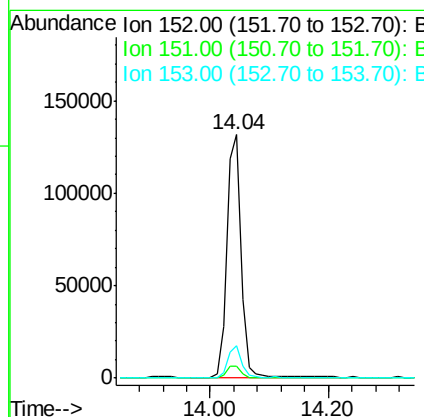
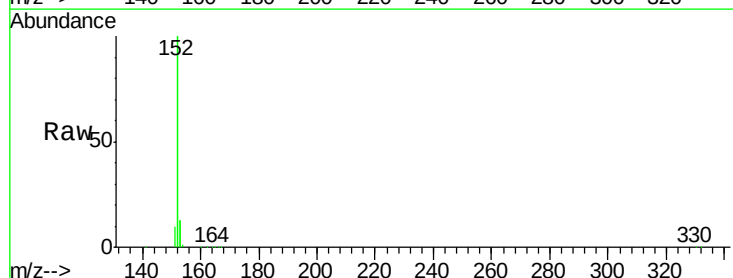
RT: 14.04 min Scan# 2590

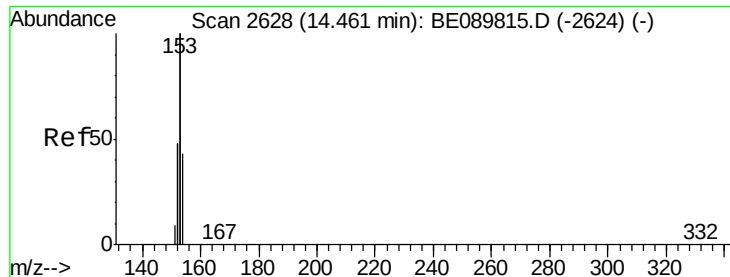
Delta R.T. -0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Tgt Ion:	152	Resp:	219552
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	12.7	11.0	16.4





#11

Acenaphthene

Concen: 0.41 ng

RT: 14.46 min Scan# 2628

Delta R.T. -0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

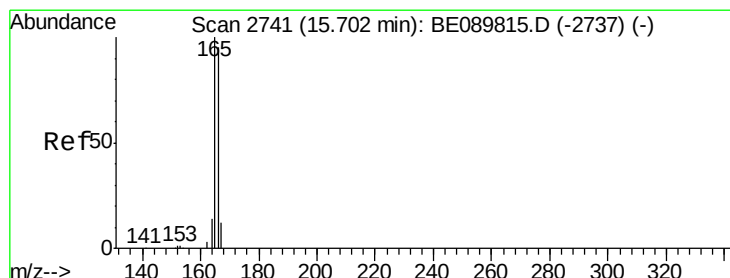
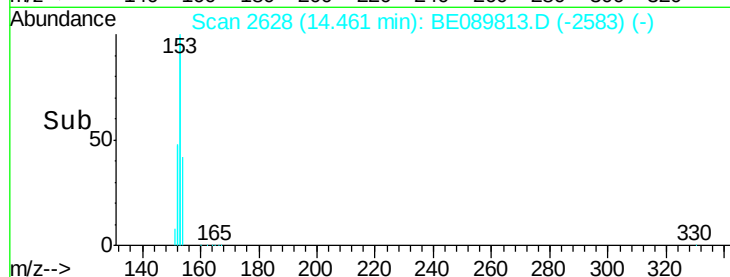
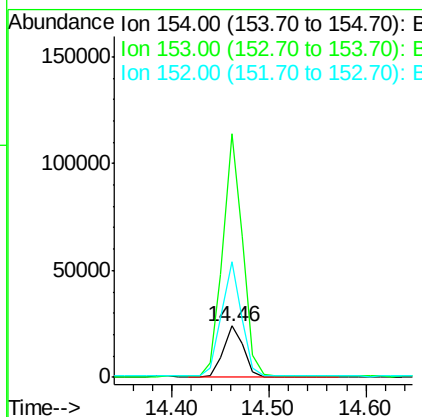
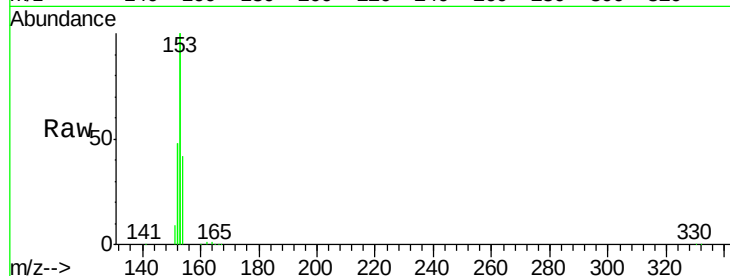
ClientSampleId :

SSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
154	100		
153	457.3	401.5	602.3
152	219.7	198.6	298.0

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#12

Fluorene

Concen: 0.45 ng

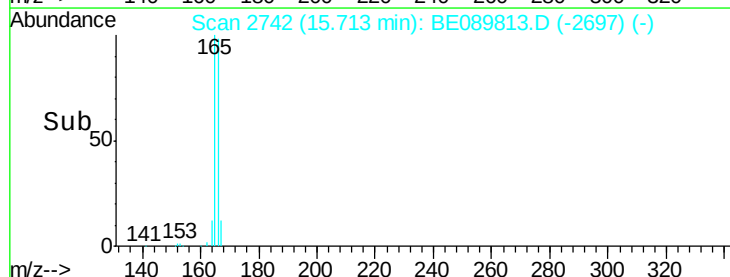
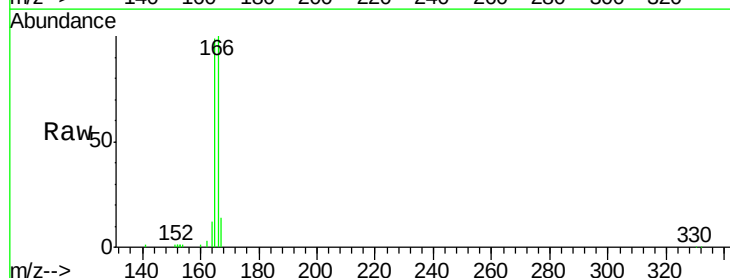
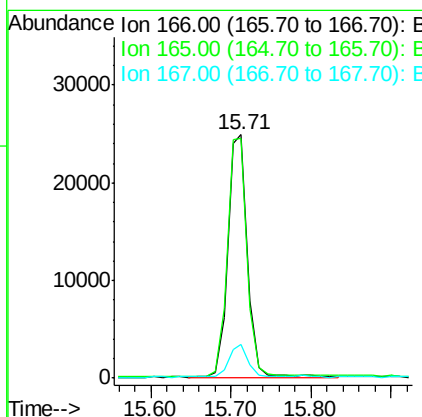
RT: 15.71 min Scan# 2742

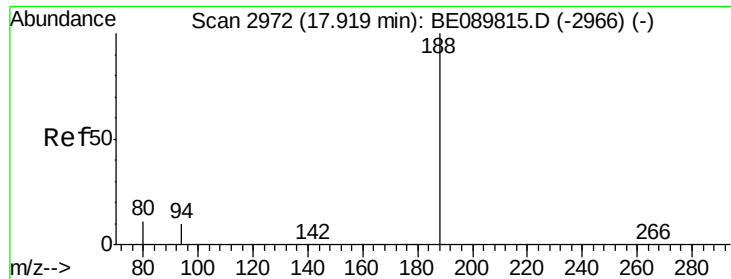
Delta R.T. -0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.4	85.1	127.7
167	12.7	12.2	18.4





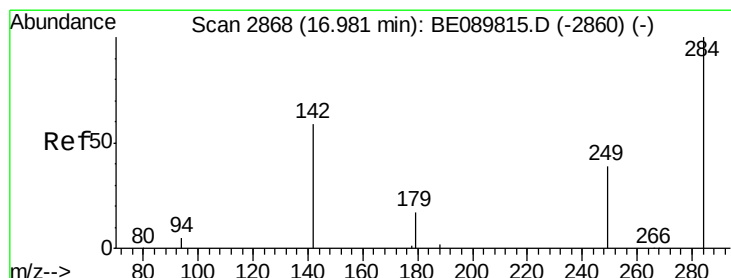
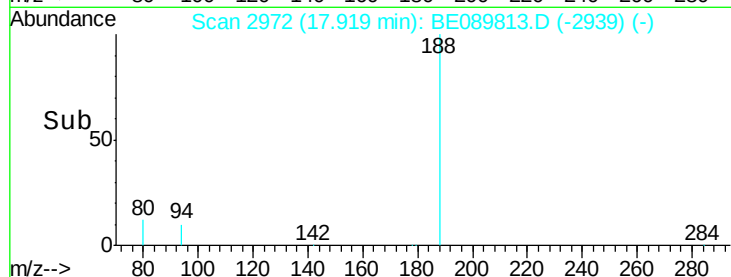
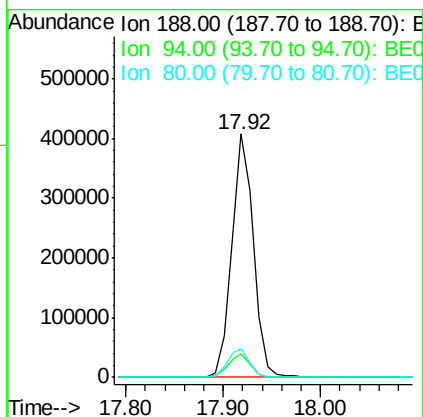
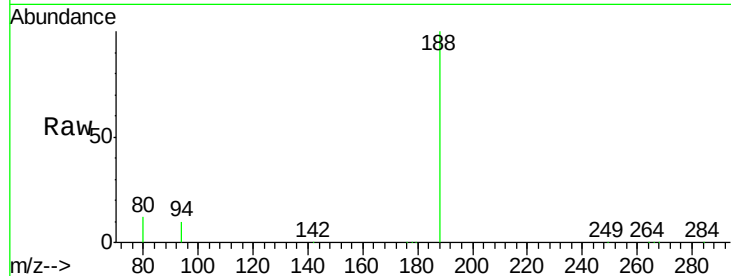
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2972
Delta R.T. -0.00 min
Lab File: BE089813.D
Acq: 24 Mar 2015 13:28

Instrument :
BNA_E
ClientSampled :
SSTDIC0.5

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	9.6	8.5	12.7
80	11.7	10.0	15.0

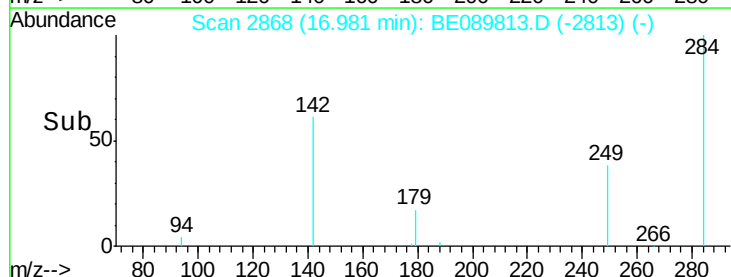
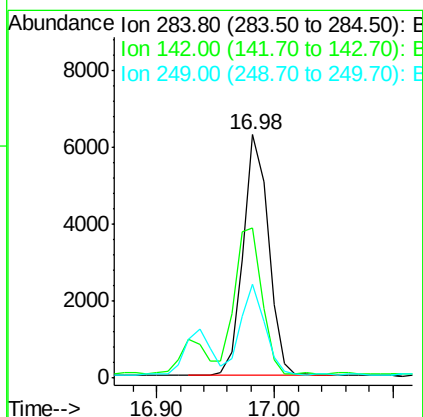
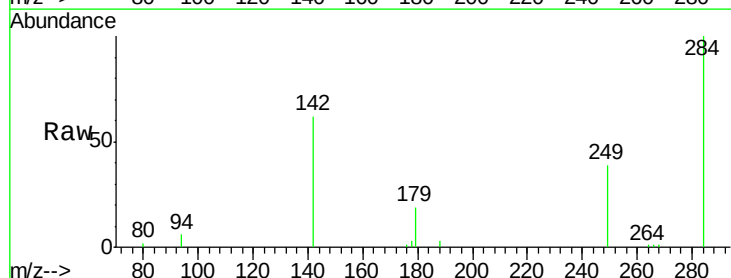
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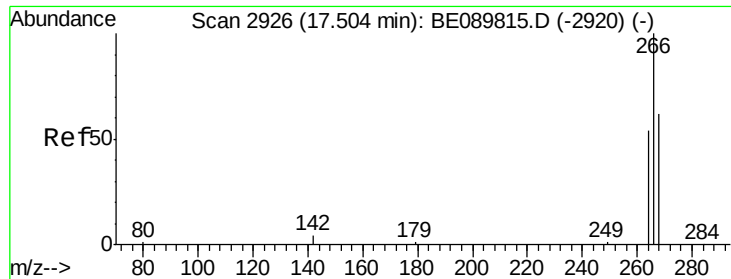
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#14
Hexachlorobenzene
Concen: 0.47 ng
RT: 16.98 min Scan# 2868
Delta R.T. -0.00 min
Lab File: BE089813.D
Acq: 24 Mar 2015 13:28

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	66.9	53.3	79.9
249	36.8	31.1	46.7





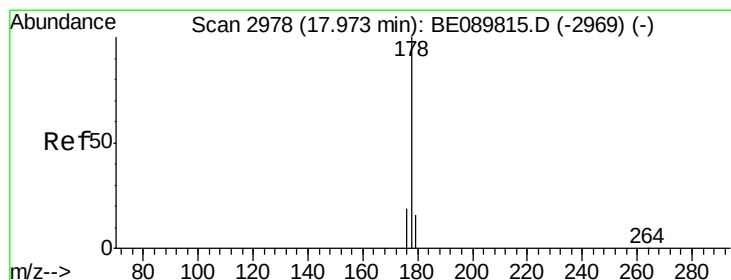
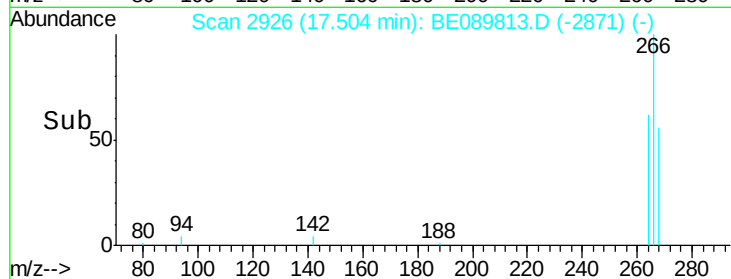
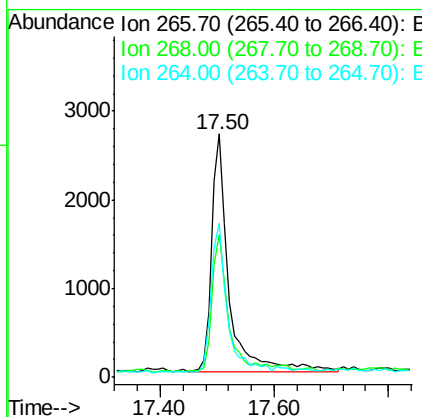
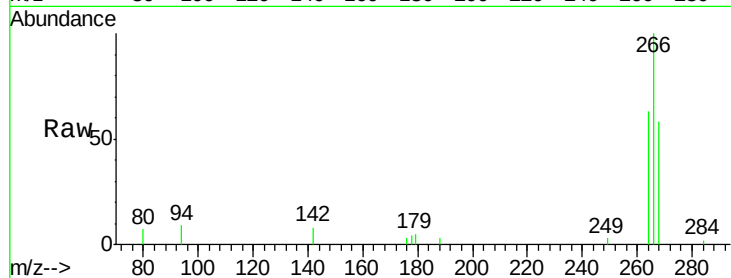
#15
 Pentachlorophenol
 Concen: 0.07 ng
 RT: 17.50 min Scan# 2926
 Delta R.T. -0.00 min
 Lab File: BE089813.D
 Acq: 24 Mar 2015 13:28

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	5638		
268	58.4		51.6	77.4
264	63.1		50.2	75.2

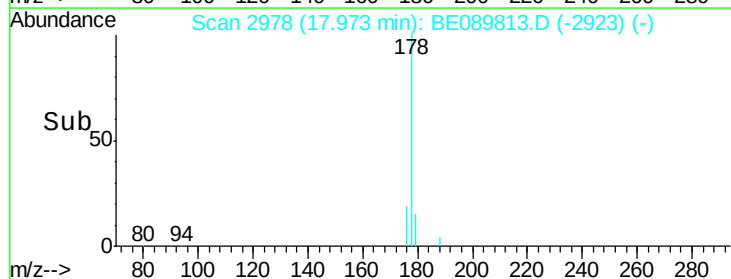
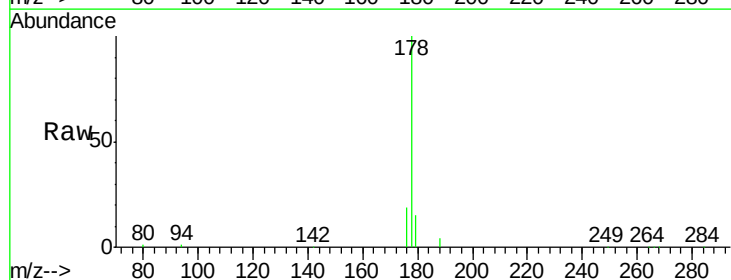
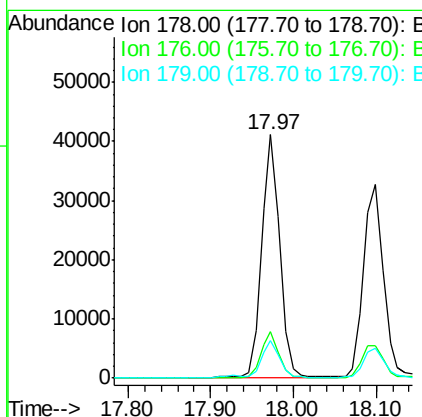
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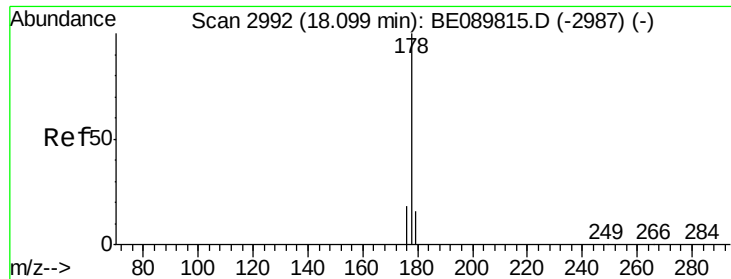
mohammad
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#16
 Phenanthrene
 Concen: 0.42 ng
 RT: 17.97 min Scan# 2978
 Delta R.T. -0.00 min
 Lab File: BE089813.D
 Acq: 24 Mar 2015 13:28

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	63250		
176	18.4		15.4	23.0
179	15.2		12.2	18.4





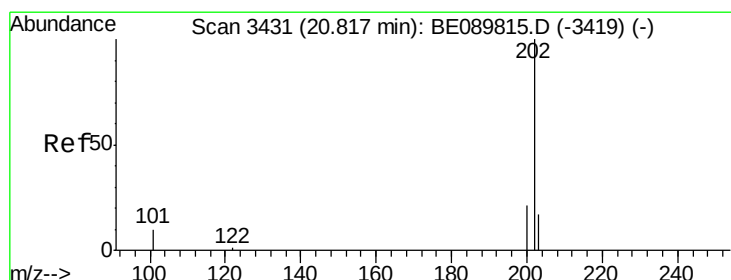
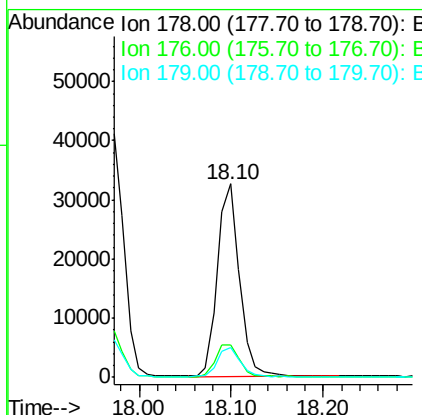
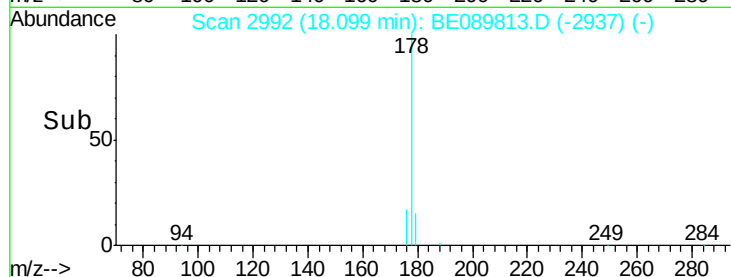
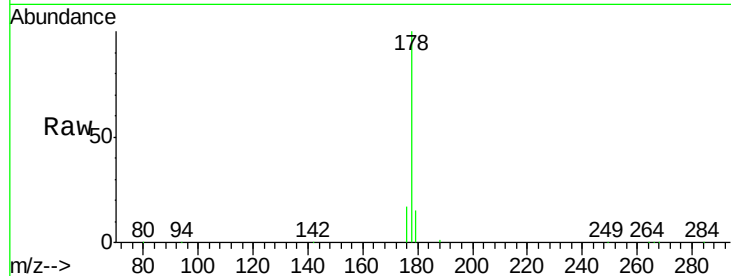
#17
 Anthracene
 Concen: 0.42 ng
 RT: 18.10 min Scan# 2992
 Delta R.T. -0.00 min
 Lab File: BE089813.D
 Acq: 24 Mar 2015 13:28

Instrument :
 BNA_E
 ClientSampled :
 SSTDICC0.5

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	15.8	12.1	18.1

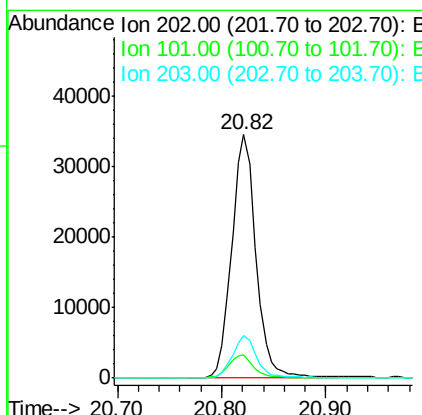
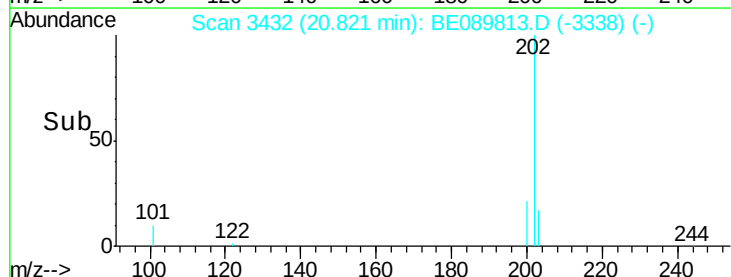
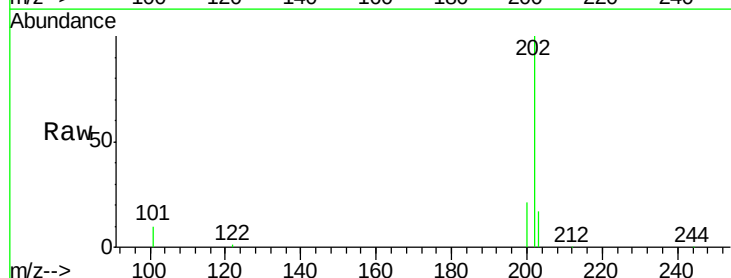
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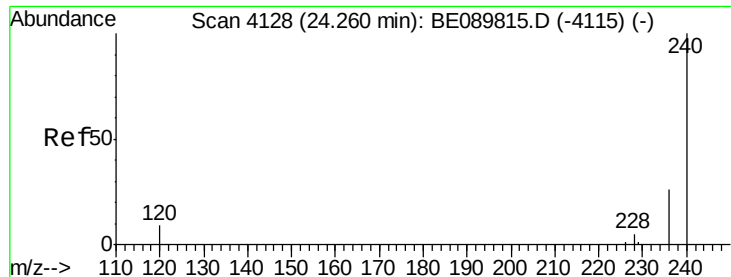
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#18
 Fluoranthene
 Concen: 0.47 ng
 RT: 20.82 min Scan# 3432
 Delta R.T. -0.00 min
 Lab File: BE089813.D
 Acq: 24 Mar 2015 13:28

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.4	8.2	12.2
203	17.0	14.2	21.4





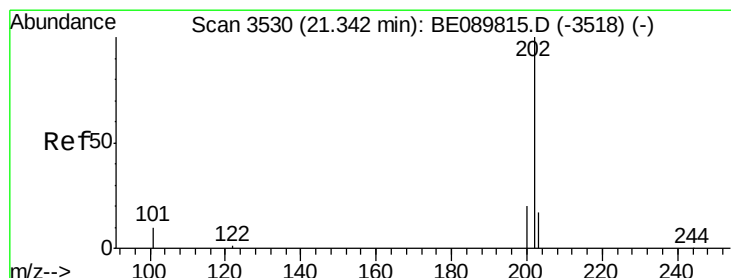
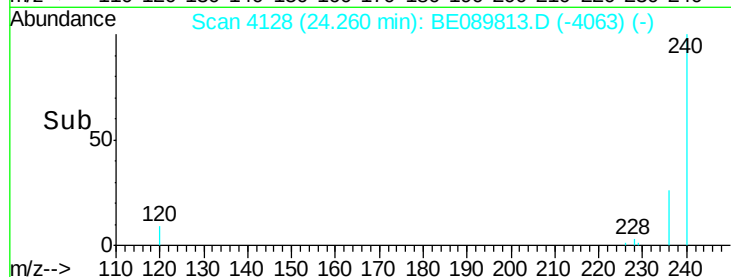
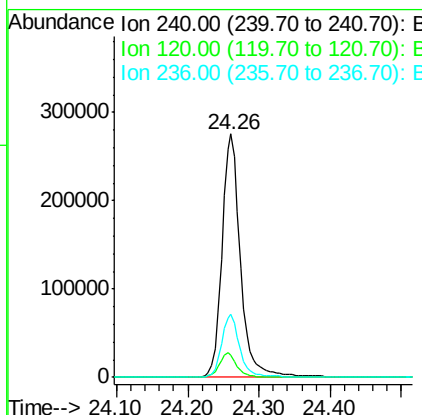
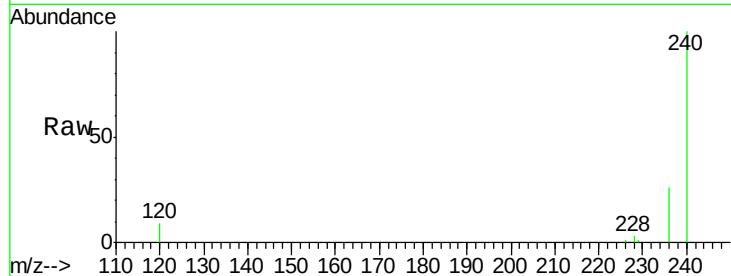
#19
Chrysene-d12
Concen: 5.00 ng
RT: 24.26 min Scan# 4128
Delta R.T. -0.00 min
Lab File: BE089813.D
Acq: 24 Mar 2015 13:28

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	500309		
120	9.2	7.5	11.3	
236	26.0	20.5	30.7	

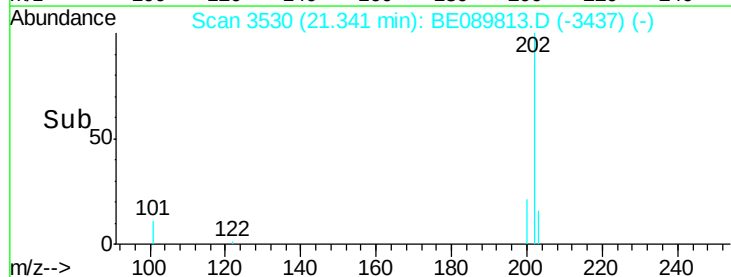
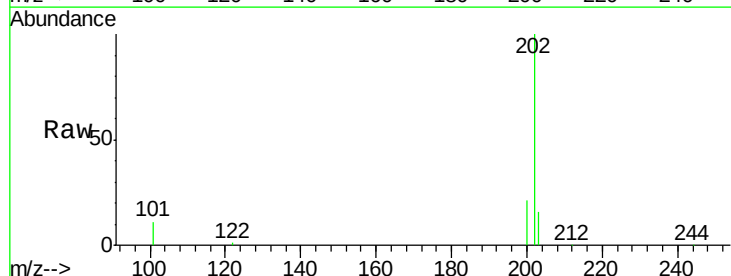
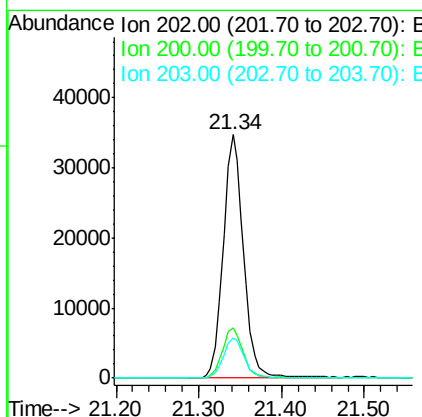
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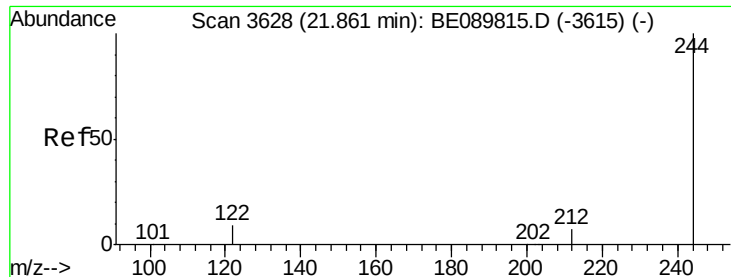
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#20
Pyrene
Concen: 0.35 ng
RT: 21.34 min Scan# 3530
Delta R.T. -0.01 min
Lab File: BE089813.D
Acq: 24 Mar 2015 13:28

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	58618		
200	20.7	15.9	23.9	
203	16.6	13.6	20.4	





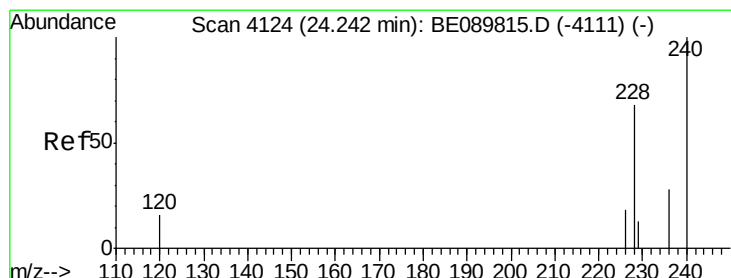
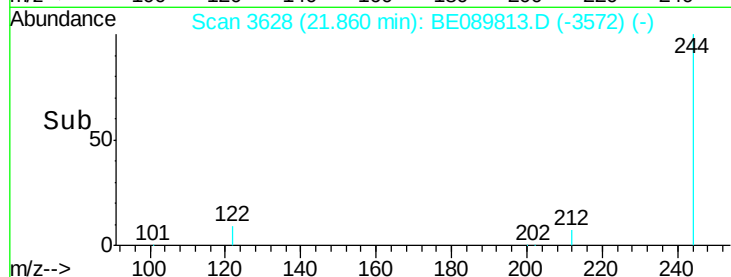
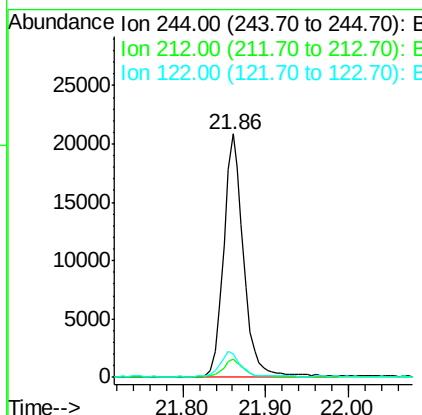
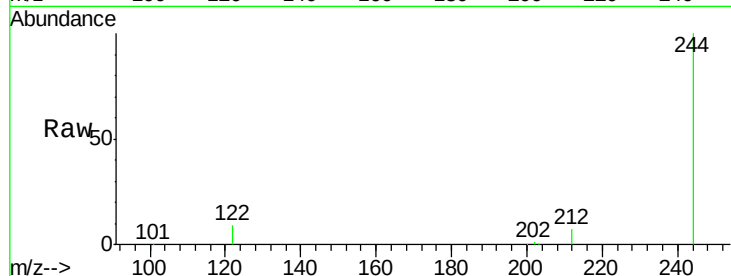
#21
 Terphenyl-d14
 Concen: 0.50 ng
 RT: 21.86 min Scan# 3628
 Delta R.T. -0.00 min
 Lab File: BE089813.D
 Acq: 24 Mar 2015 13:28

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	7.3	10.9
122	9.5	10.5	15.7#

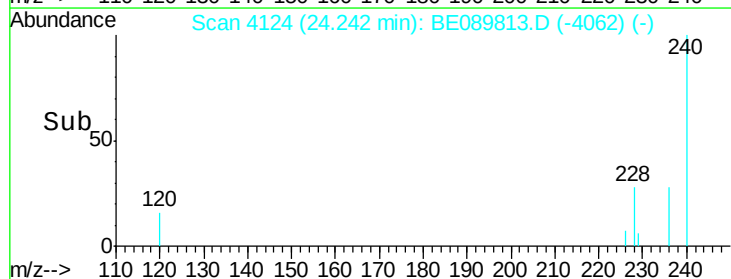
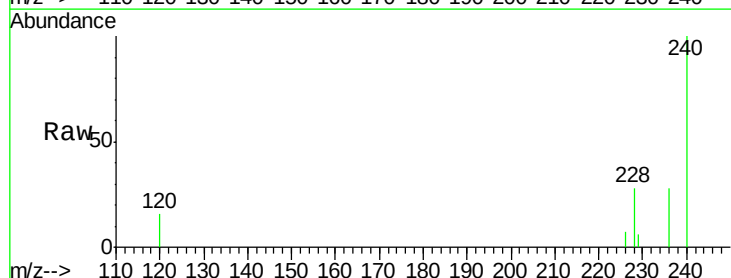
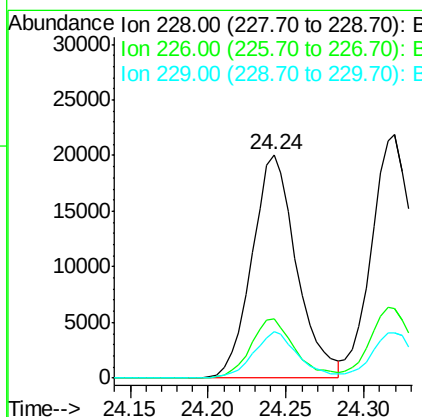
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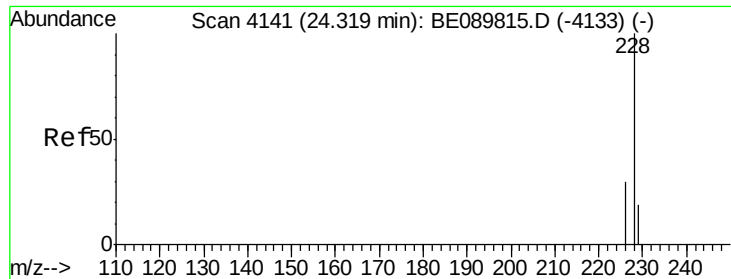
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#22
 Benzo(a)anthracene
 Concen: 0.15 ng
 RT: 24.24 min Scan# 4124
 Delta R.T. -0.01 min
 Lab File: BE089813.D
 Acq: 24 Mar 2015 13:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.4	19.8	29.8
229	20.8	16.3	24.5





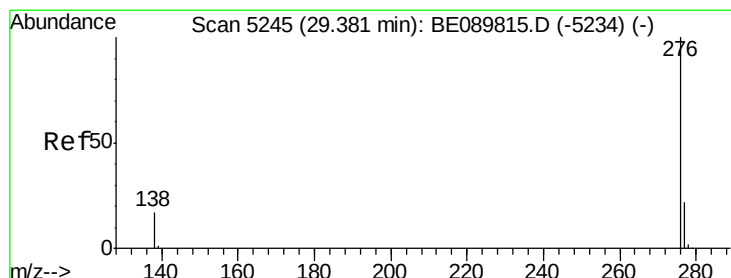
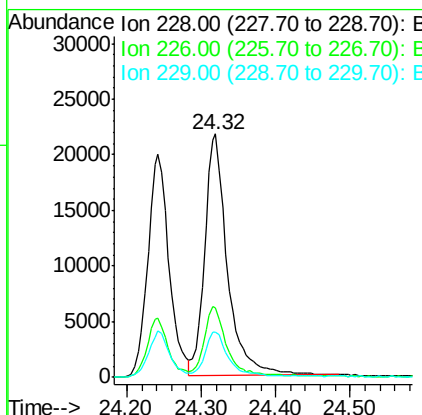
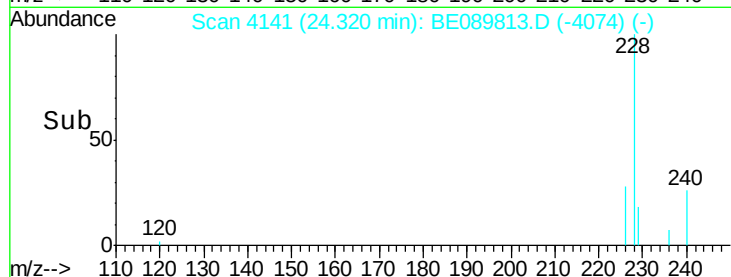
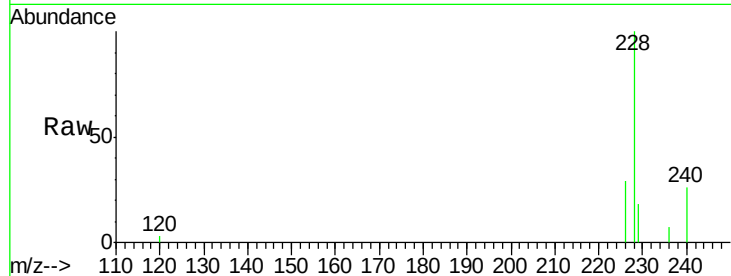
#23
Chrysene
 Concen: 0.10 ng
 RT: 24.32 min Scan# 4141
 Delta R.T. 0.00 min
 Lab File: BE089813.D
 Acq: 24 Mar 2015 13:28

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Tgt Ion:	228	Resp:	46519
Ion Ratio	Lower	Upper	
228	100		
226	28.6	23.0	34.4
229	18.4	15.8	23.6

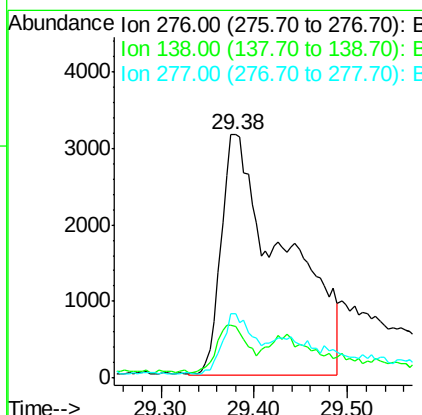
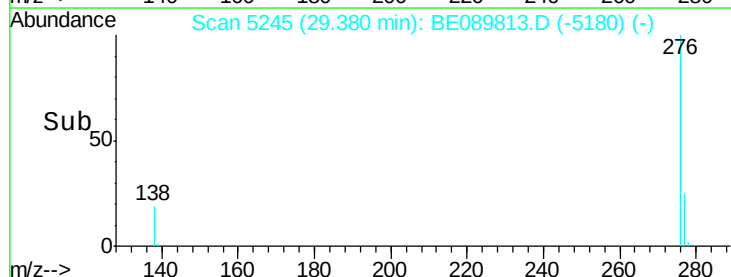
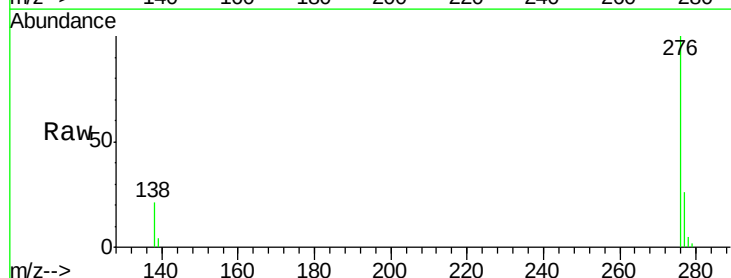
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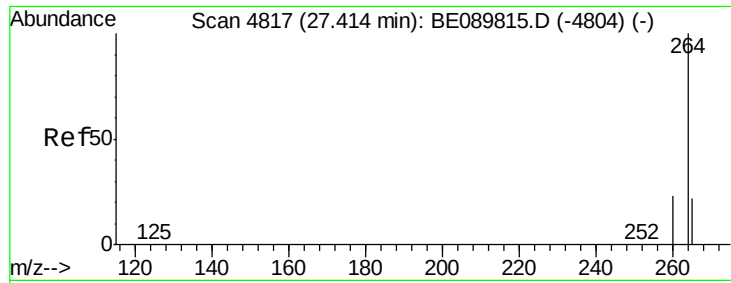
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#24
Indeno(1,2,3-cd)pyrene
 Concen: 0.17 ng m
 RT: 29.38 min Scan# 5245
 Delta R.T. -0.00 min
 Lab File: BE089813.D
 Acq: 24 Mar 2015 13:28

Tgt Ion:	276	Resp:	14637
Ion Ratio	Lower	Upper	
276	100		
138	9.5	4.3	6.5#
277	11.8	9.0	13.4





#25

Perylene-d12

Concen: 5.00 ng

RT: 27.41 min Scan# 4817

Delta R.T. -0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

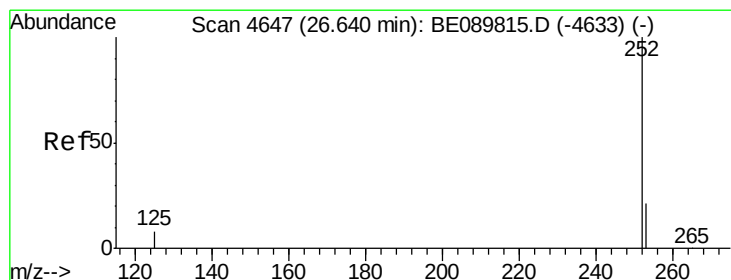
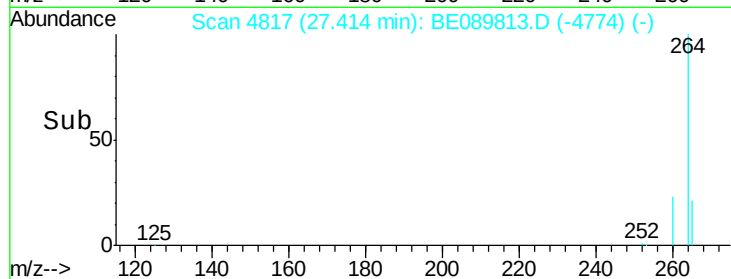
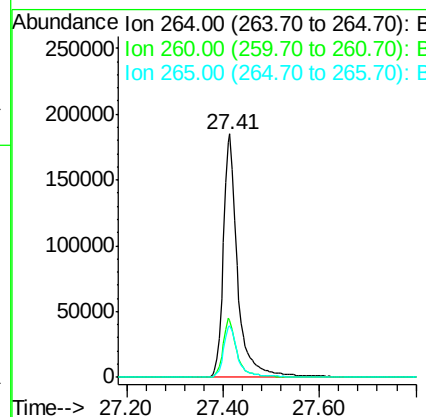
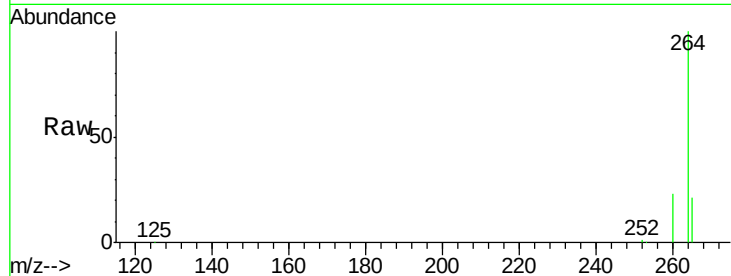
ClientSampleId :

SSTDIC0.5

Tgt Ion:	264	Resp:	381761
Ion Ratio	Lower	Upper	
264	100		
260	23.4	18.2	27.2
265	21.5	17.3	25.9

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#26

Benzo(b)fluoranthene

Concen: 0.67 ng

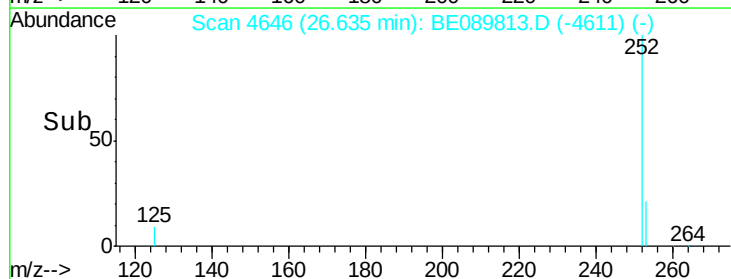
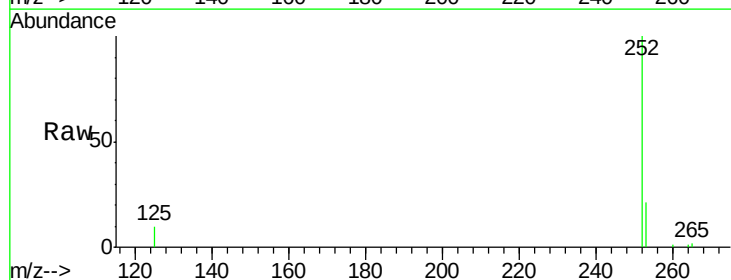
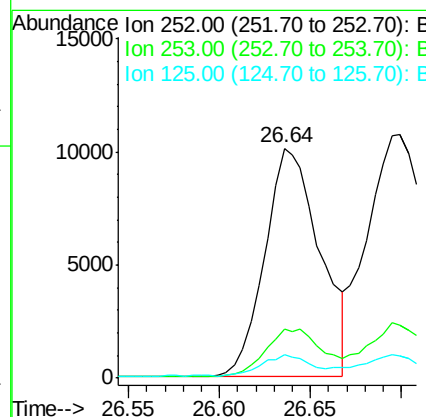
RT: 26.64 min Scan# 4646

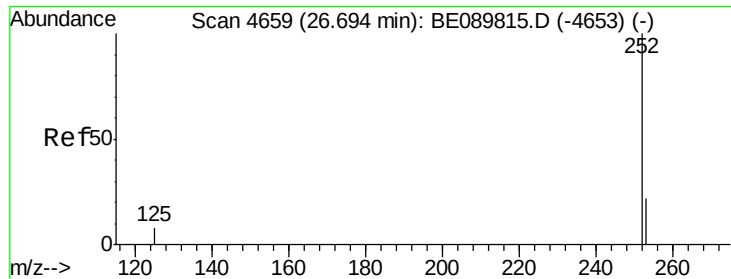
Delta R.T. -0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Tgt Ion:	252	Resp:	21304
Ion Ratio	Lower	Upper	
252	100		
253	21.3	17.8	26.6
125	10.1	8.7	13.1





#27

Benzo(k)fluoranthene

Concen: 0.41 ng m

RT: 26.70 min Scan# 4660

Delta R.T. -0.00 min

Lab File: BE089813.D

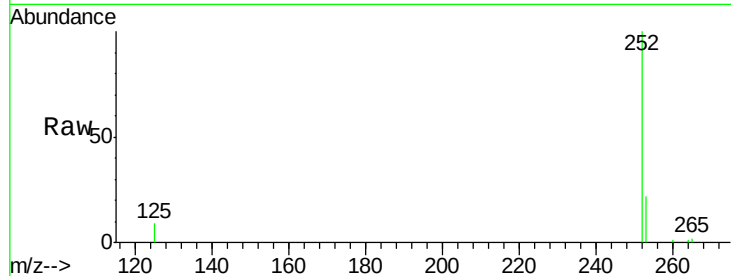
Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

ClientSampleId :

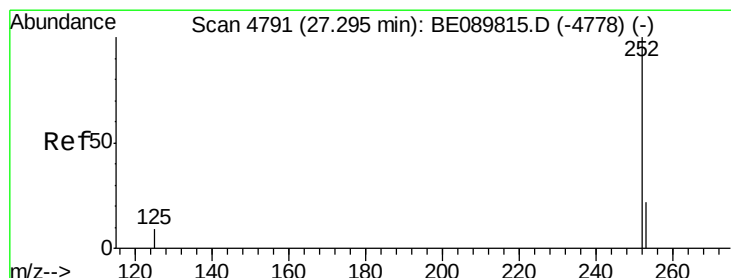
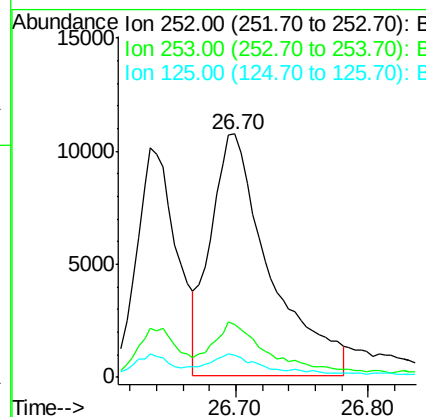
SSTDIC0.5



Tgt Ion:	252	Resp:	33466
Ion Ratio	Lower	Upper	
252	100		
253	21.7	18.6	28.0
125	9.3	10.8	16.2

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#28

Benzo(a)pyrene

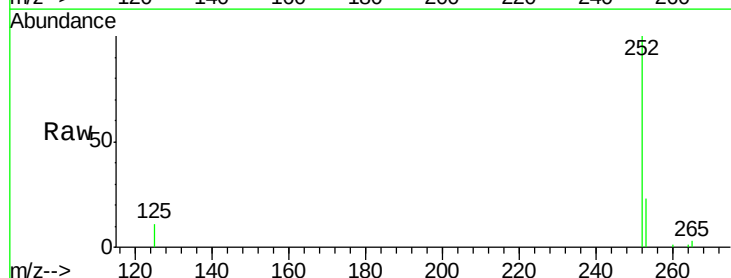
Concen: 0.51 ng m

RT: 27.29 min Scan# 4790

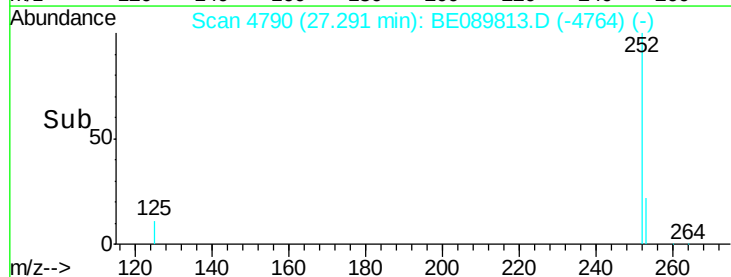
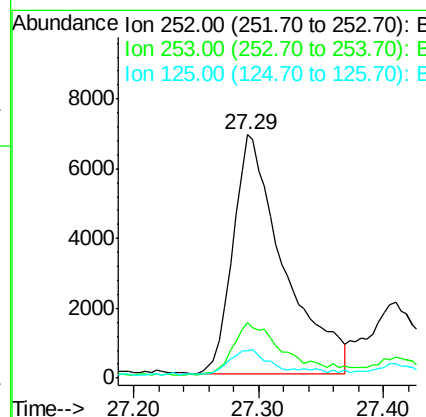
Delta R.T. -0.01 min

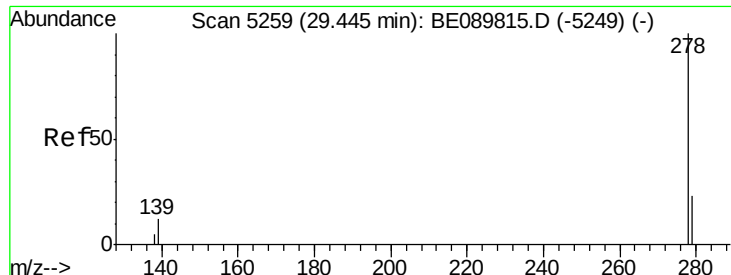
Lab File: BE089813.D

Acq: 24 Mar 2015 13:28



Tgt Ion:	252	Resp:	19452
Ion Ratio	Lower	Upper	
252	100		
253	23.0	21.0	31.4
125	11.3	13.3	19.9





#29

Dibenzo(a,h)anthracene

Concen: 0.51 ng

RT: 29.44 min Scan# 5258

Delta R.T. -0.00 min

Lab File: BE089813.D

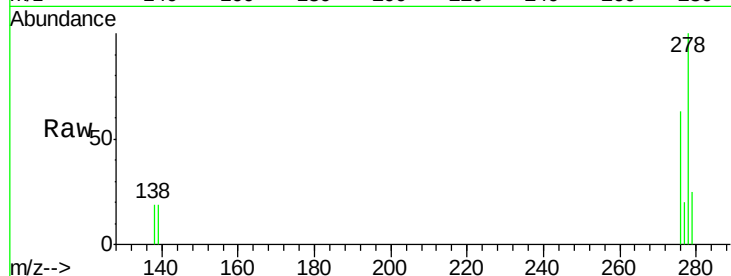
Acq: 24 Mar 2015 13:28

Instrument :

BNA_E

ClientSampleId :

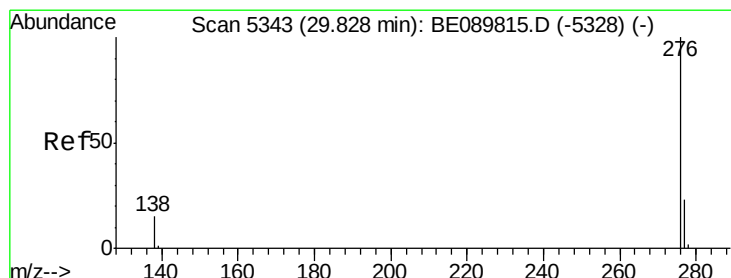
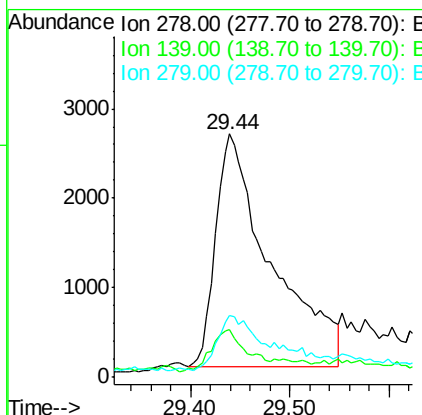
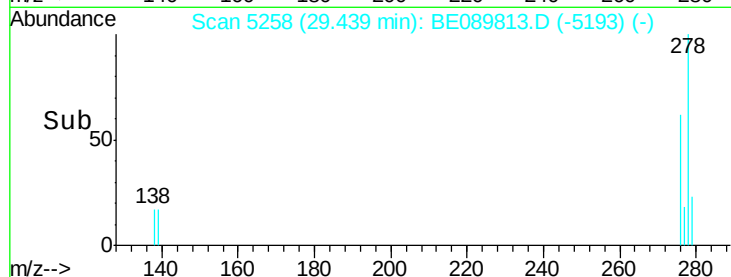
SSTDIC0.5



Tgt Ion:	278	Resp:	10051
Ion Ratio	Lower	Upper	
278	100		
139	19.4	20.0	30.0#
279	25.4	28.9	43.3#

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#30

Benzo(g,h,i)perylene

Concen: 0.12 ng

RT: 29.83 min Scan# 5343

Delta R.T. 0.00 min

Lab File: BE089813.D

Acq: 24 Mar 2015 13:28

Tgt Ion:	276	Resp:	18621
Ion Ratio	Lower	Upper	
276	100		
277	22.0	19.2	28.8
138	18.6	22.9	34.3#

