

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088467.D
 Acq On : 2 Nov 2014 00:17
 Operator : TP/JJ
 Sample : F4368-05RE 5X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS41-1014RE

Manual Integrations
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mohammad
 11/4/2014 9:08:00 AM

Quant Time: Nov 02 05:24:22 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	29809	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	114690	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	54158	5.00	ng	0.00
12) Phenanthrene-d10	12.91	188	107902	5.00	ng	0.01
16) Chrysene-d12	18.33	240	68817	5.00	ng	0.02
22) Perylene-d12	21.40	264	65412	5.00	ng	0.03
System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	93017	11.06	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	137798	9.03	ng	0.00
18) Terphenyl-d14	16.08	244	98799	7.81	ng	0.00
Target Compounds						Qvalue
10) Acenaphthene	10.84	154	731	0.06	ng	95
11) Fluorene	11.50	166	891	0.06	ng	# 92
13) Phenanthrene	12.95	178	74012	0.75	ng	95
14) Anthracene	13.03	178	12608	0.16	ng	# 88
15) Fluoranthene	15.19	202	21963	1.38	ng	100
17) Pyrene	15.64	202	19130	0.85	ng	97
19) Benzo(a)anthracene	18.31	228	39227	0.61	ng	94
20) Chrysene	18.38	228	42341m	0.67	ng	
21) Indeno(1,2,3-cd)pyrene	23.60	276	24683m	0.42	ng	
23) Benzo(b)fluoranthene	20.64	252	12721	0.89	ng	# 84
24) Benzo(k)fluoranthene	20.69	252	4516	0.29	ng	# 70
25) Benzo(a)pyrene	21.28	252	8563	0.62	ng	# 80
26) Dibenzo(a,h)anthracene	23.68	278	1500	0.12	ng	# 12
27) Benzo(g,h,i)perylene	24.23	276	25708	0.44	ng	# 81

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

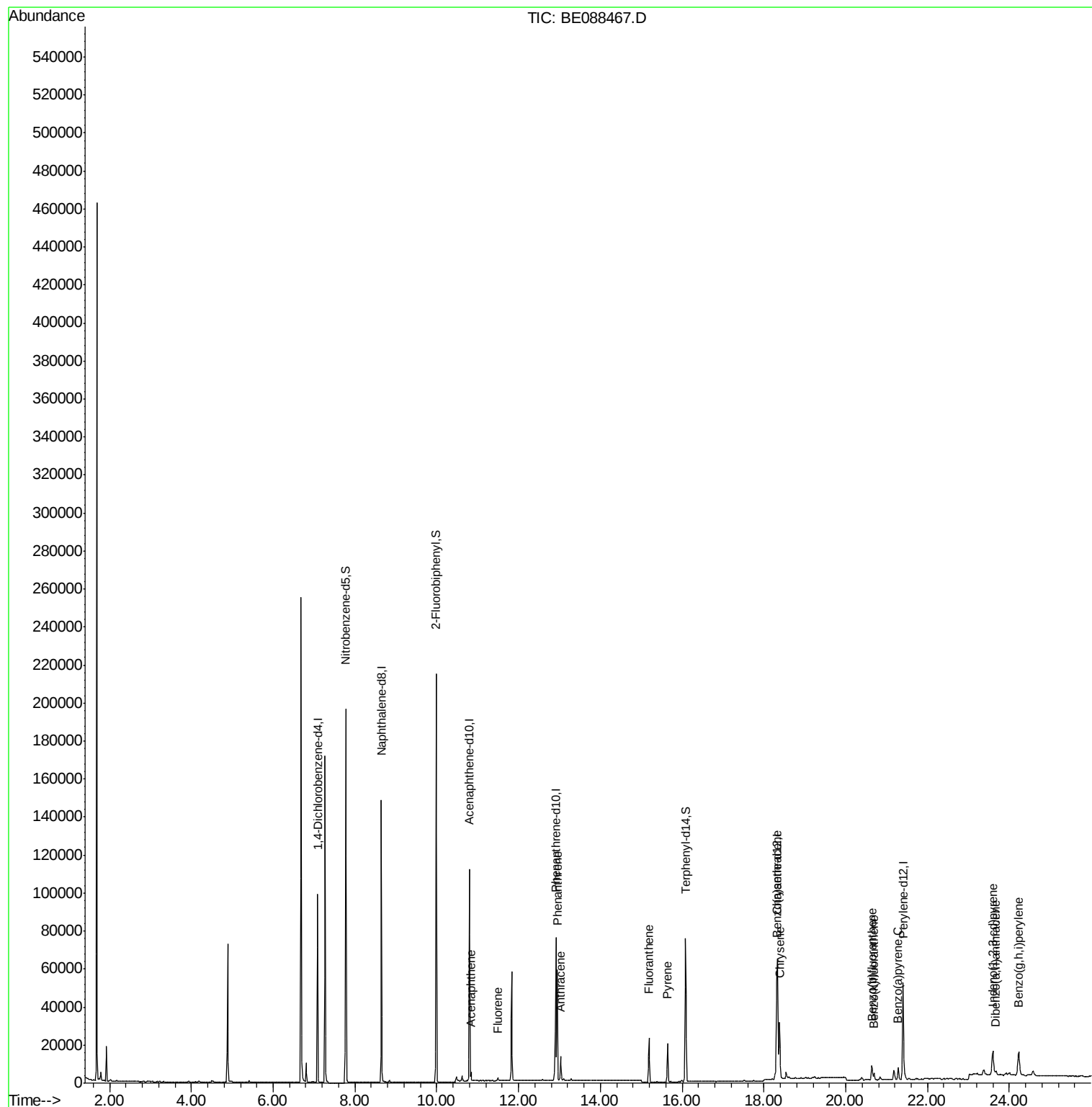
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
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QLast Update : Sat Nov 01 00:42:07 2014
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088467.D

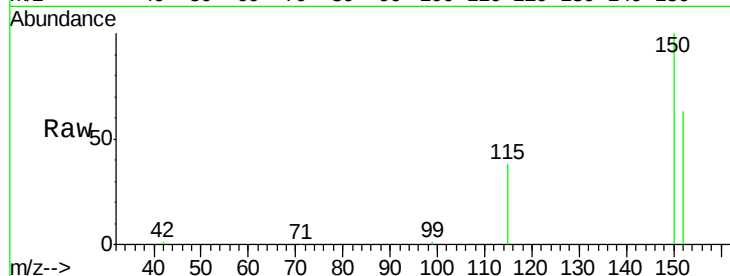
Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE



Tgt Ion:152 Resp: 29809

Ion Ratio Lower Upper

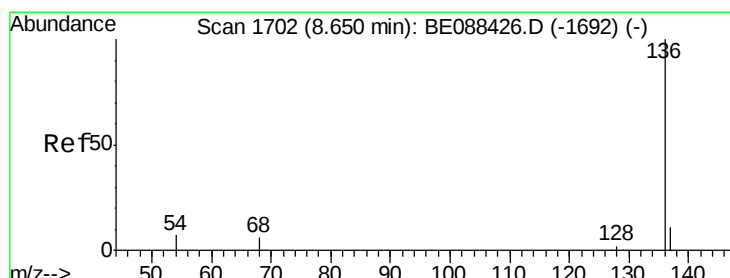
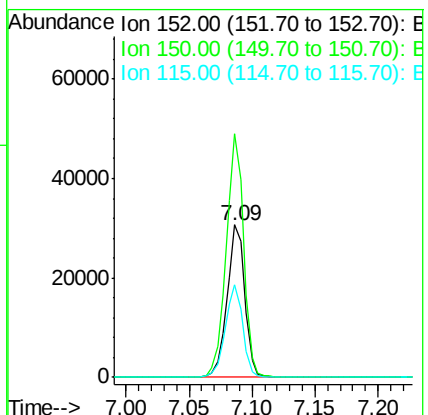
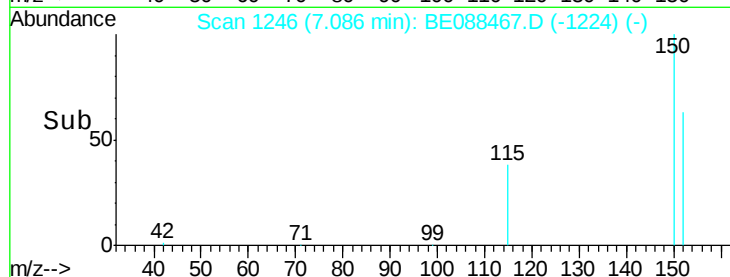
152 100

150 159.9 121.8 182.8

115 61.1 43.9 65.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.65 min Scan# 1702

Delta R.T. -0.00 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

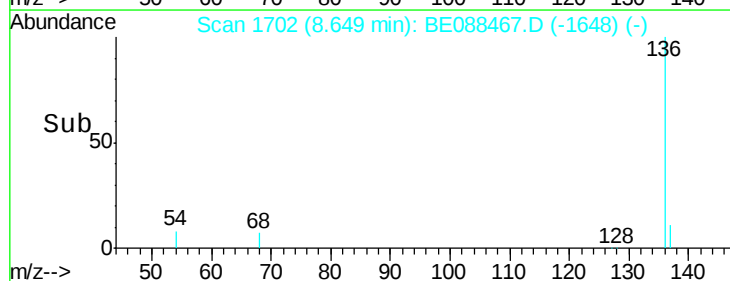
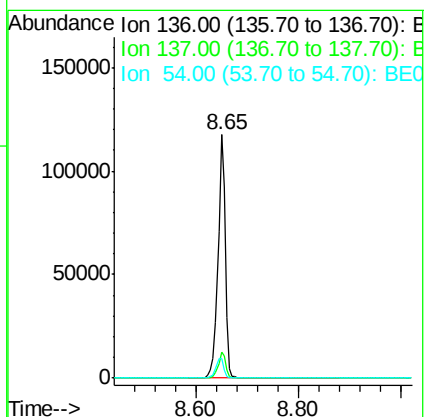
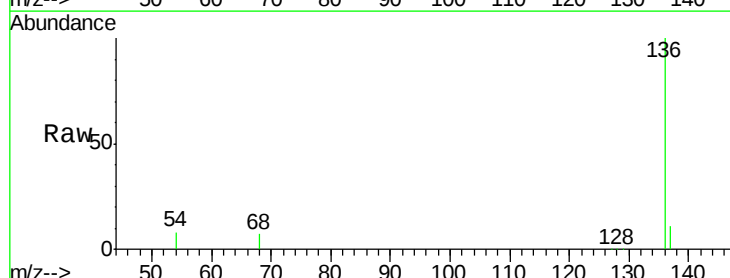
Tgt Ion:136 Resp: 114690

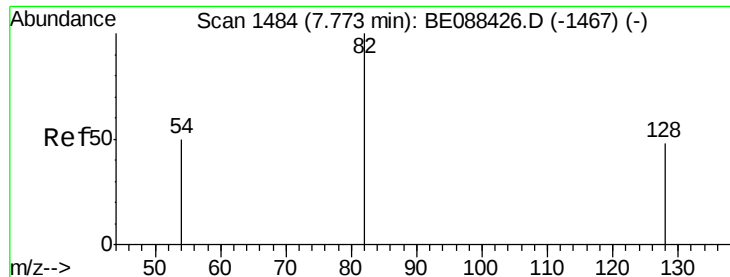
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 8.0 5.3 7.9#





#4

Nitrobenzene-d5

Concen: 11.06 ng

RT: 7.78 min Scan# 1486

Delta R.T. 0.00 min

Lab File: BE088467.D

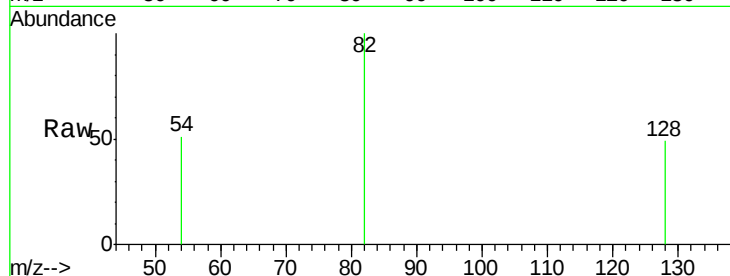
Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion: 82 Resp: 93017

Ion Ratio Lower Upper

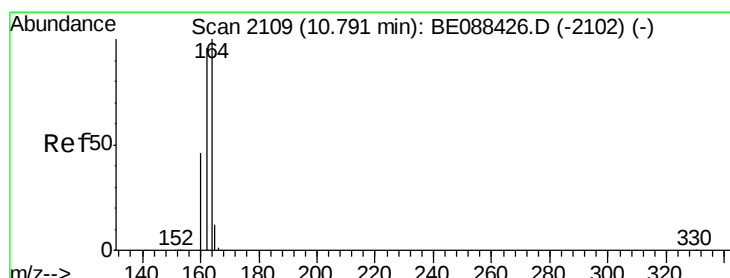
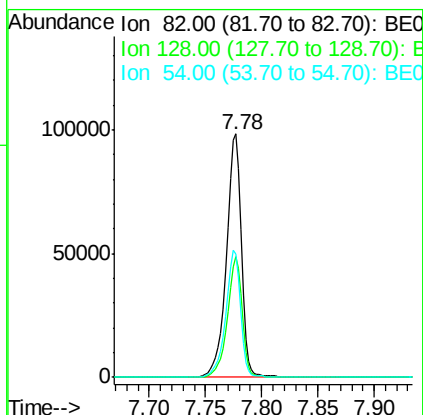
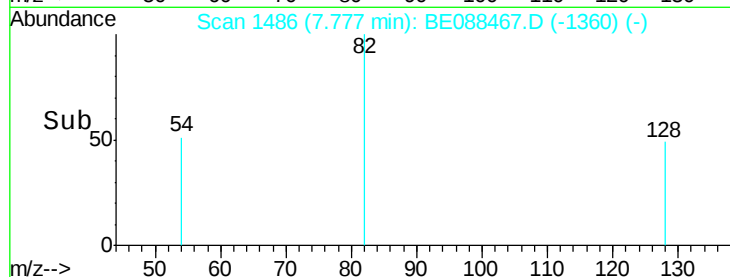
82 100

128 49.4 38.4 57.6

54 50.6 40.2 60.2

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#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

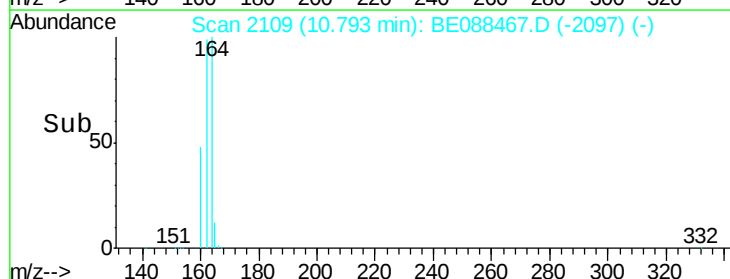
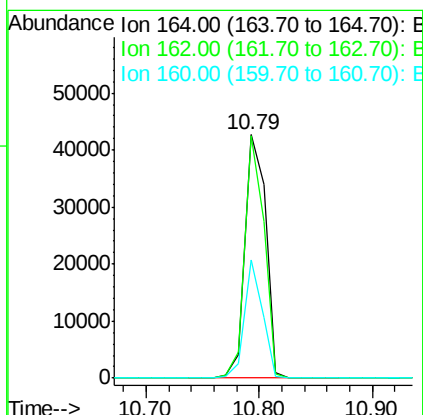
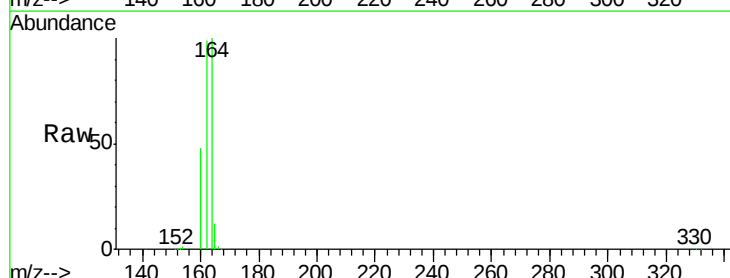
Tgt Ion: 164 Resp: 54158

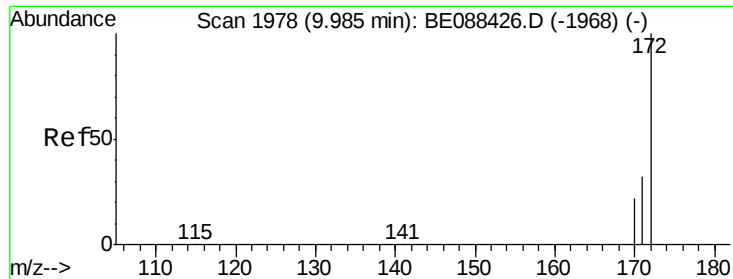
Ion Ratio Lower Upper

164 100

162 99.4 77.0 115.4

160 48.4 36.8 55.2





#8

2-Fluorobiphenyl

Concen: 9.03 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BE088467.D

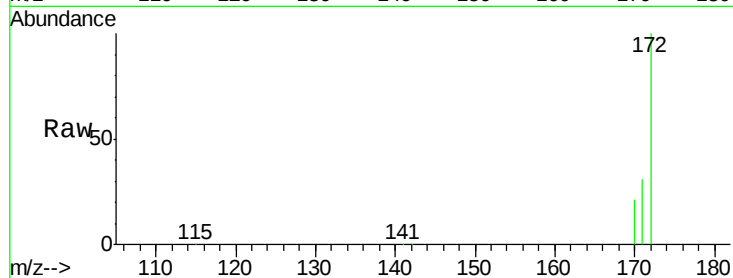
Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

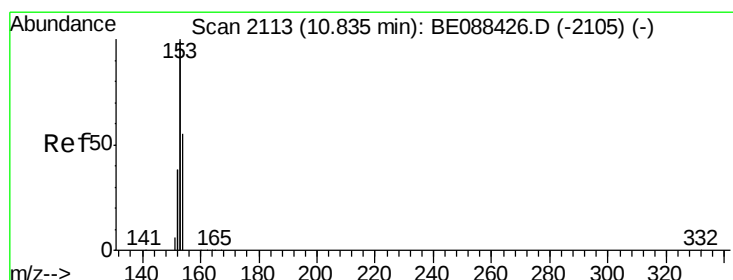
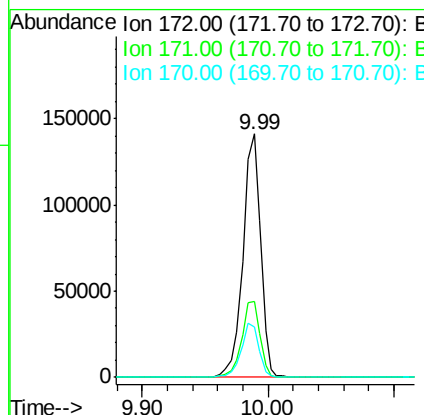
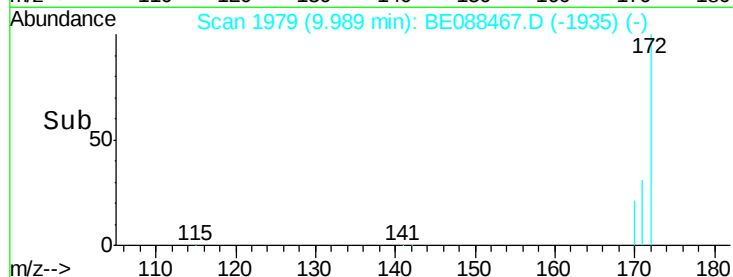
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Tgt Ion:	172	Resp:	137798
Ion Ratio	Lower	Upper	
172	100		
171	31.3	26.0	39.0
170	20.6	17.6	26.4

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#10

Acenaphthene

Concen: 0.06 ng

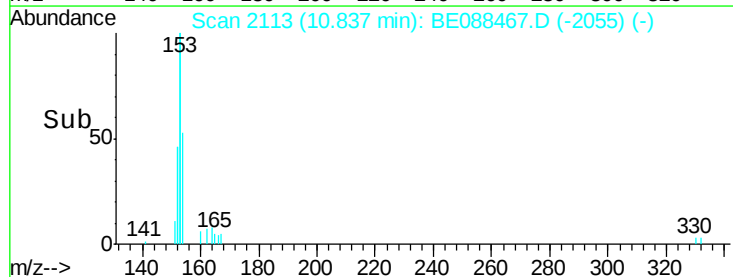
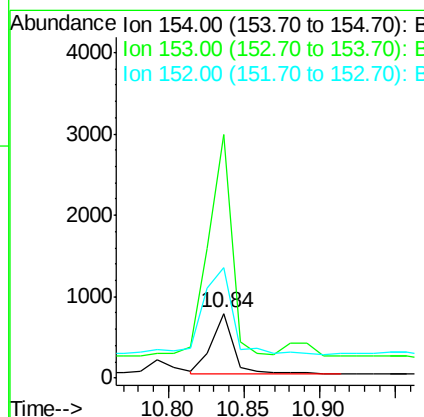
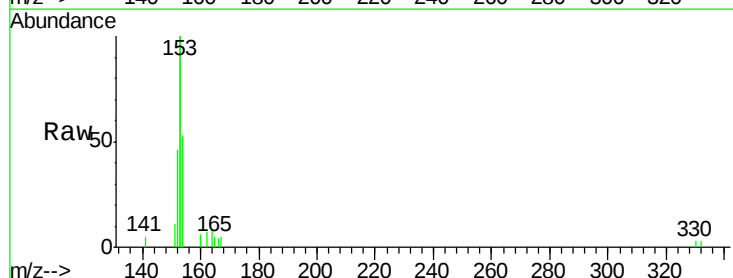
RT: 10.84 min Scan# 2113

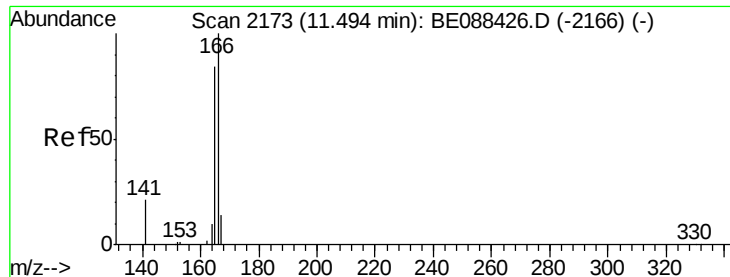
Delta R.T. 0.00 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Tgt Ion:	154	Resp:	731
Ion Ratio	Lower	Upper	
154	100		
153	388.1	324.3	486.5
152	191.7	154.9	232.3





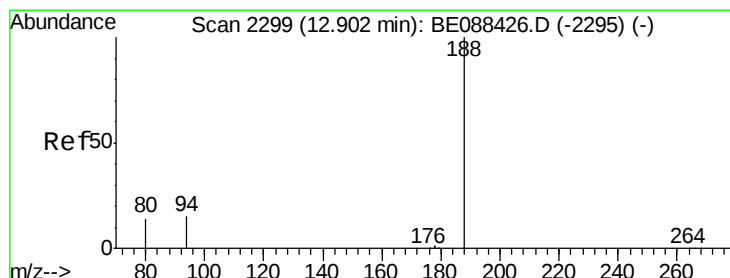
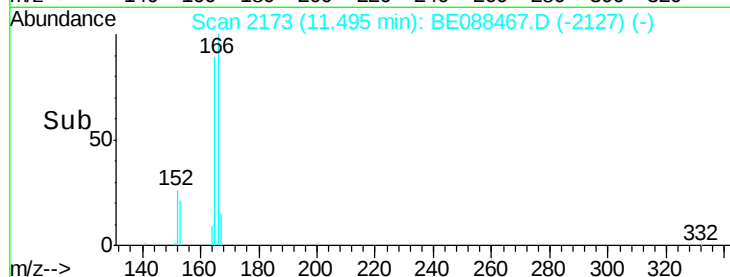
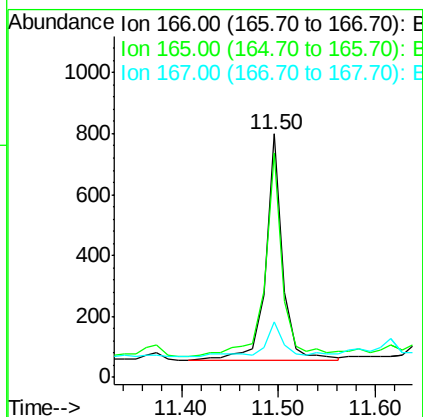
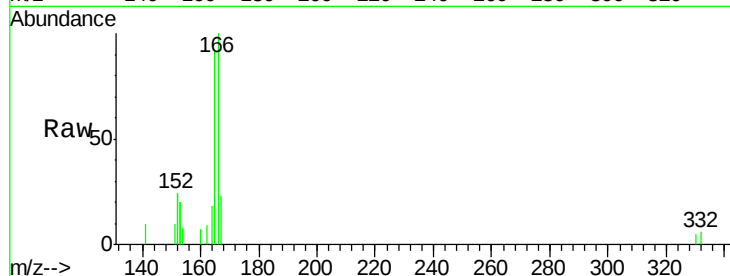
#11
Fluorene
 Concen: 0.06 ng
 RT: 11.50 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: BE088467.D
 Acq: 2 Nov 2014 00:17

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS41-1014RE

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.6	71.3	106.9
167	18.3	10.7	16.1

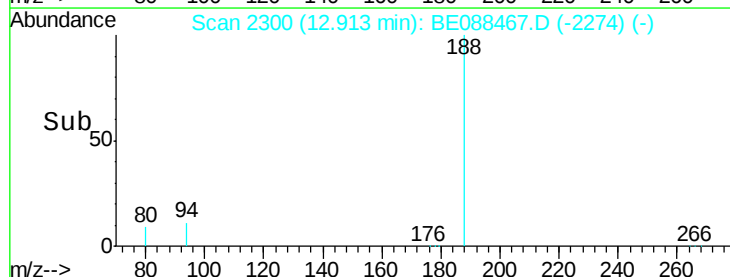
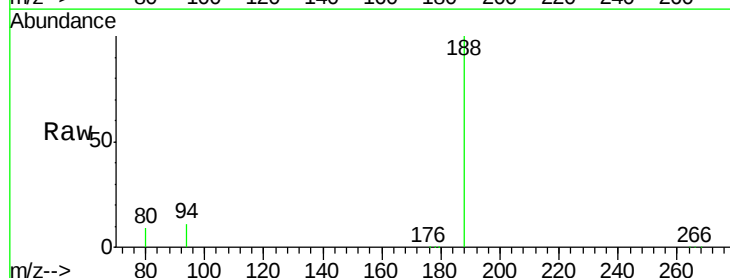
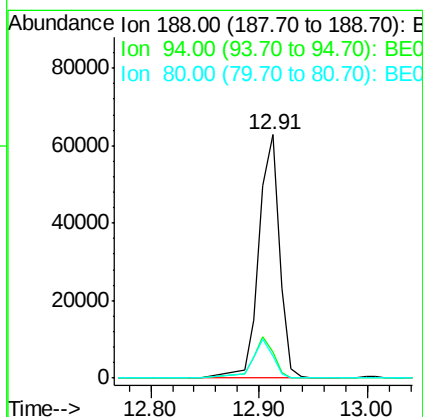
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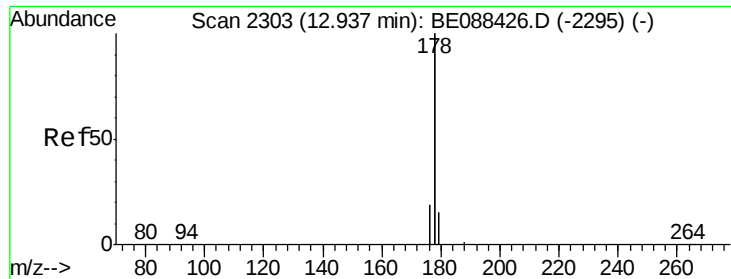
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#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.91 min Scan# 2300
 Delta R.T. 0.01 min
 Lab File: BE088467.D
 Acq: 2 Nov 2014 00:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.7	11.8	17.8
80	9.3	10.9	16.3





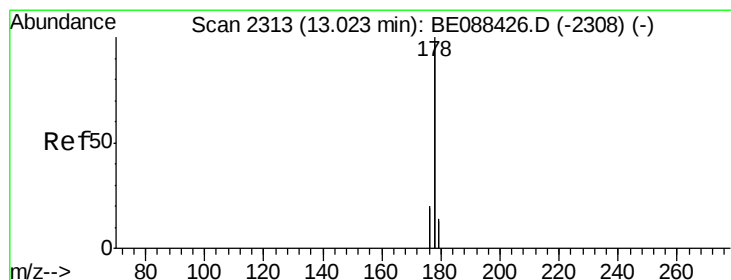
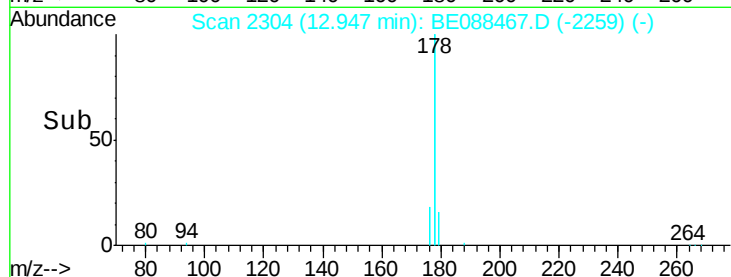
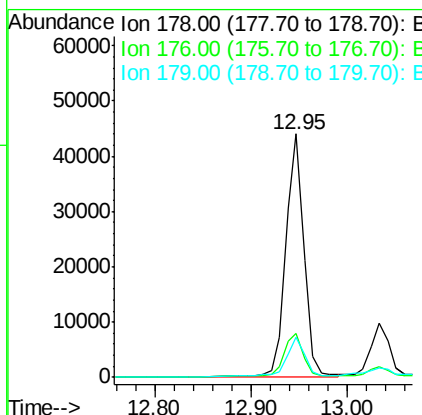
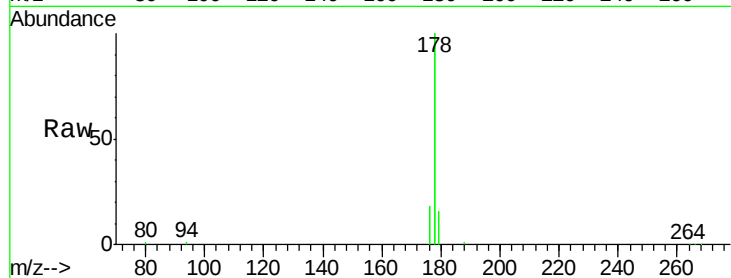
#13
Phenanthrene
Concen: 0.75 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Instrument :
BNA_E
ClientSampleId :
YS19-SS41-1014RE

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.7	15.4	23.2
179	18.7	12.8	19.2

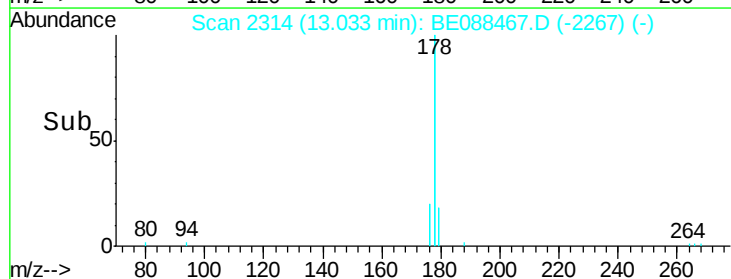
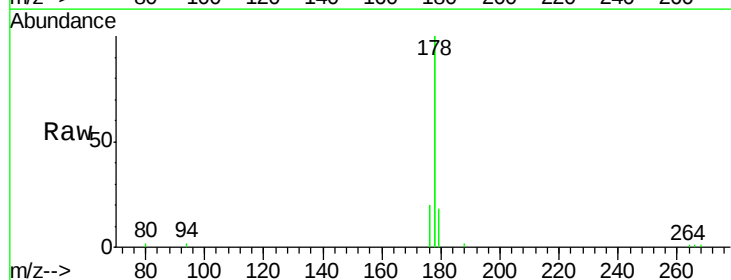
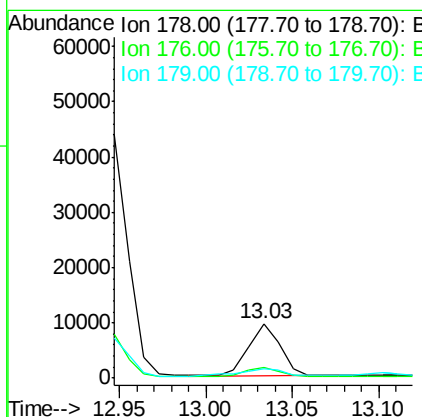
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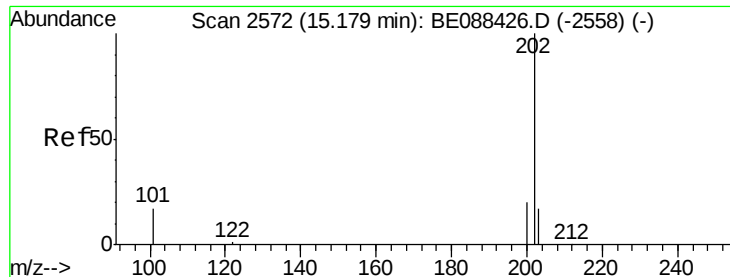
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#14
Anthracene
Concen: 0.16 ng
RT: 13.03 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.0	22.4
179	26.1	12.5	18.7#





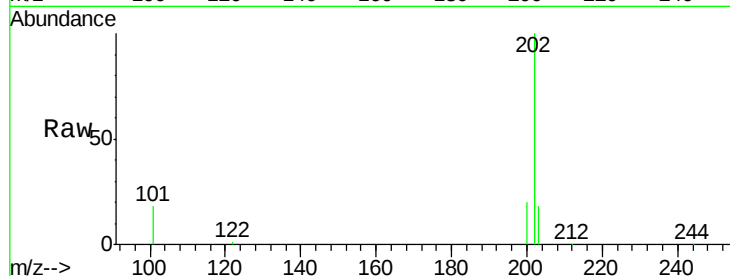
#15
Fluoranthene
 Concen: 1.38 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088467.D
 Acq: 2 Nov 2014 00:17

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS41-1014RE

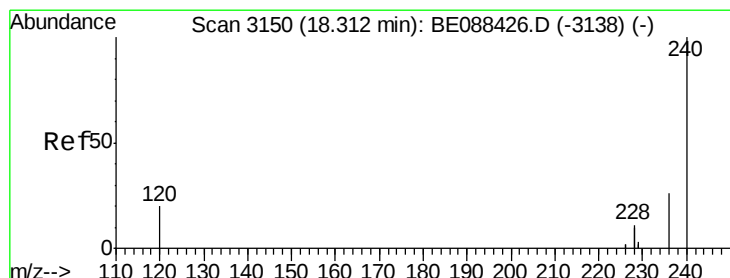
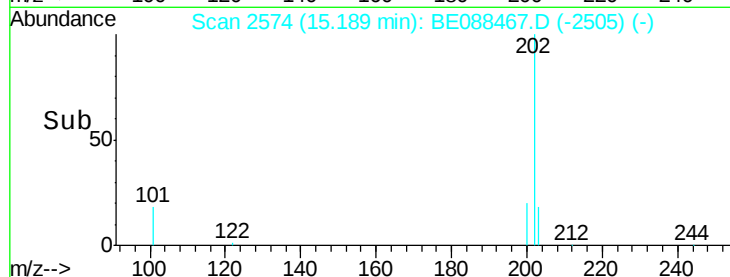
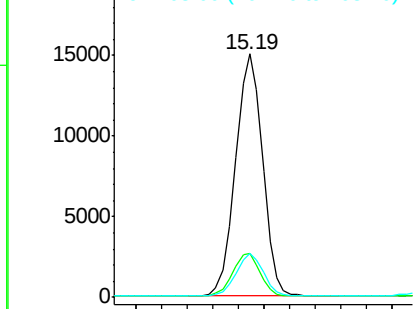
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	21963		
101	17.8	14.3	21.5	
203	17.3	13.6	20.4	

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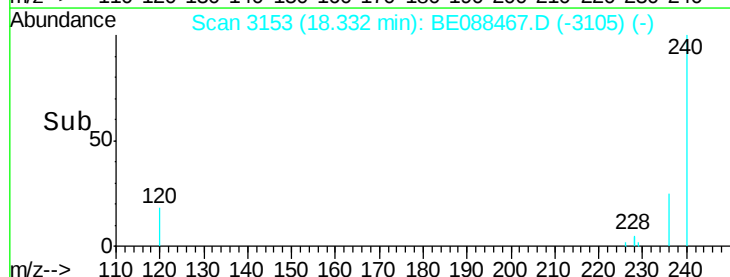
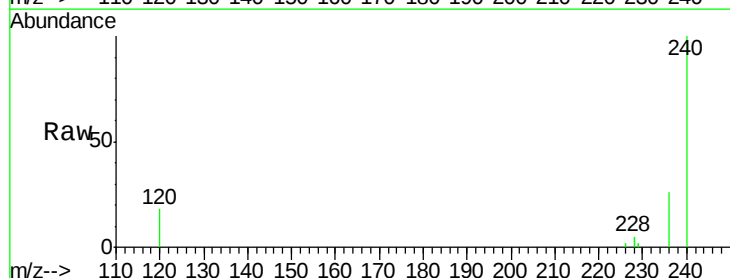
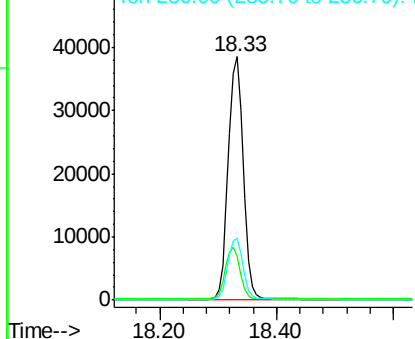
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

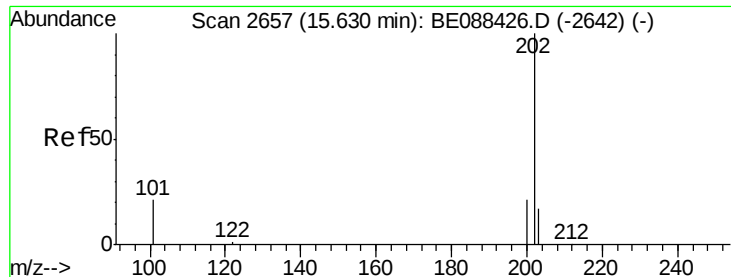


#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3153
 Delta R.T. 0.02 min
 Lab File: BE088467.D
 Acq: 2 Nov 2014 00:17

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	68817		
120	18.1	16.4	24.6	
236	25.6	20.5	30.7	

Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.85 ng

RT: 15.64 min Scan# 2660

Delta R.T. 0.02 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

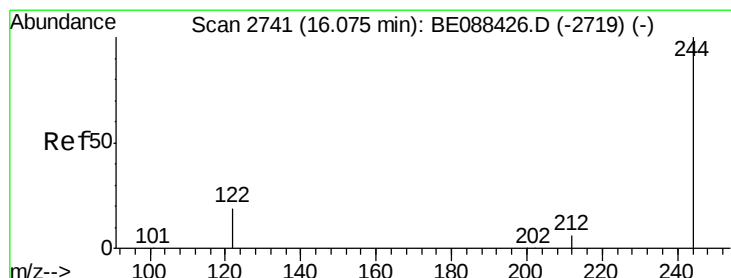
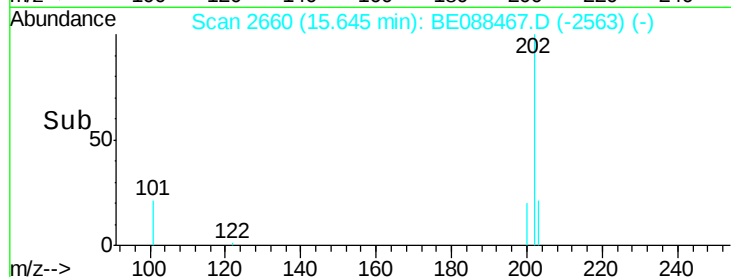
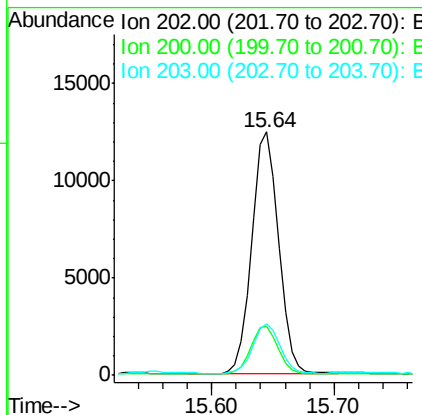
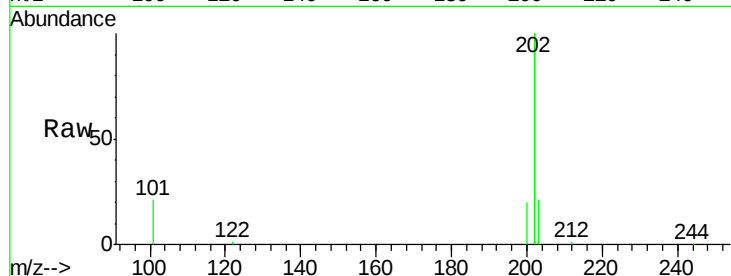
ClientSampleId :

YS19-SS41-1014RE

Tgt Ion:	202	Resp:	19130
Ion Ratio	Lower	Upper	
202	100		
200	20.1	16.1	24.1
203	20.5	13.8	20.8

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#18

Terphenyl-d14

Concen: 7.81 ng

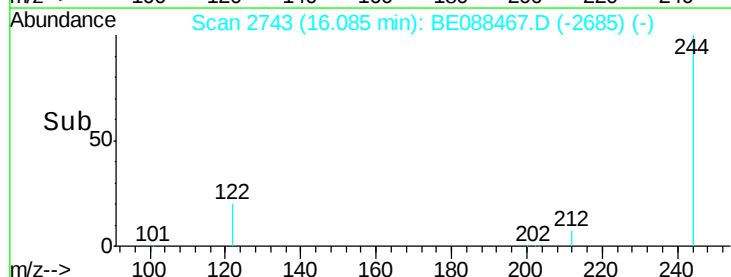
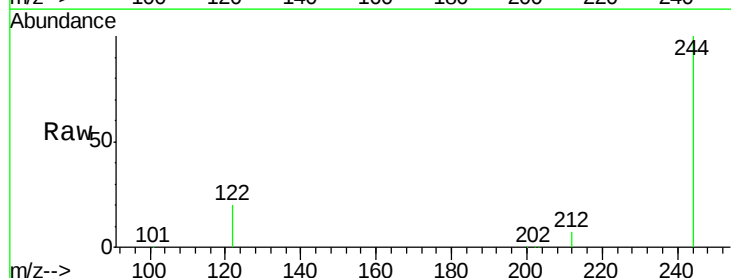
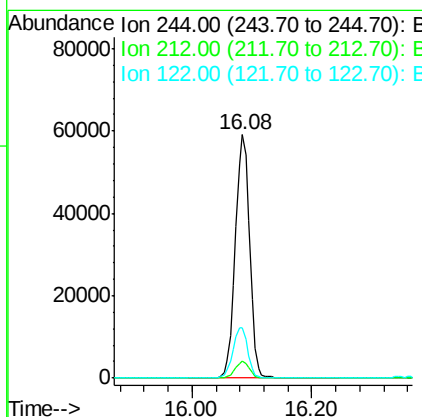
RT: 16.08 min Scan# 2743

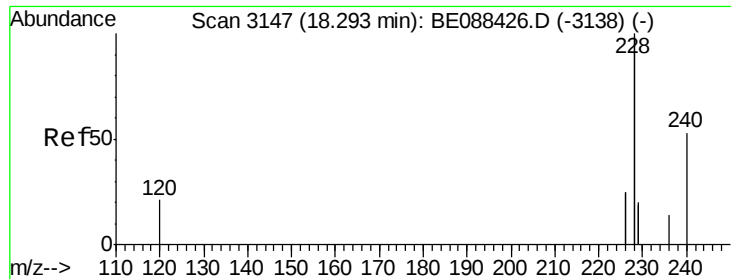
Delta R.T. 0.01 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Tgt Ion:	244	Resp:	98799
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.5	8.3
122	20.5	15.6	23.4





#19

Benzo(a)anthracene

Concen: 0.61 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BE088467.D

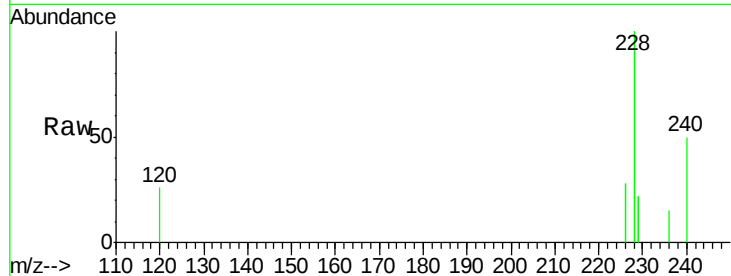
Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

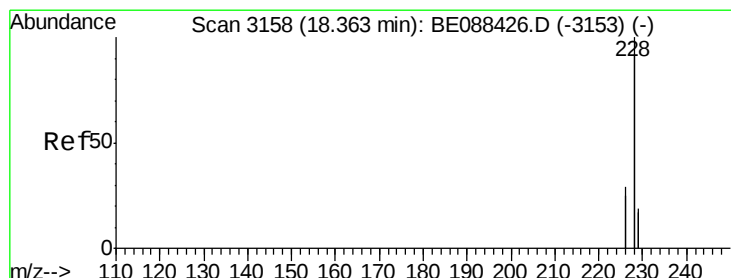
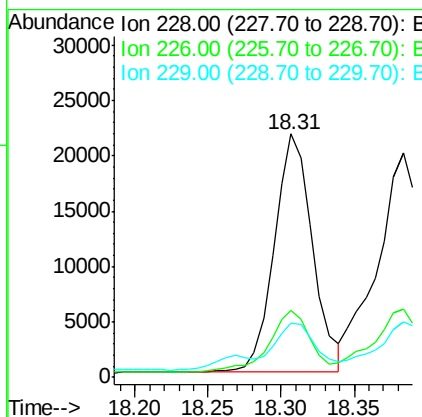
YS19-SS41-1014RE



Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	19.8	29.6
229	22.4	16.0	24.0

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#20

Chrysene

Concen: 0.67 ng m

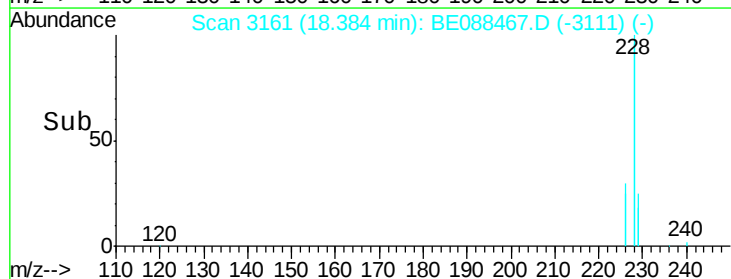
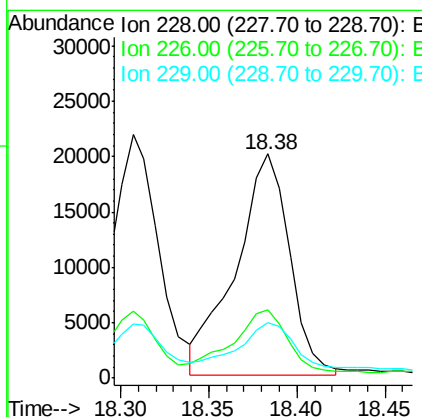
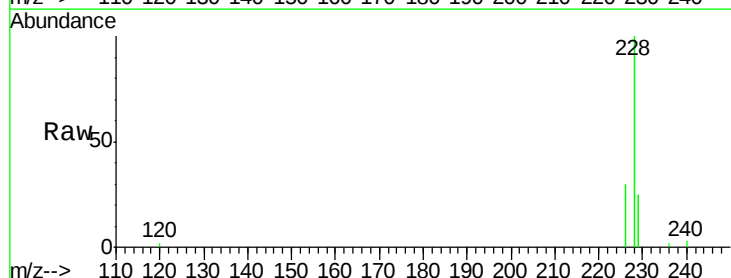
RT: 18.38 min Scan# 3161

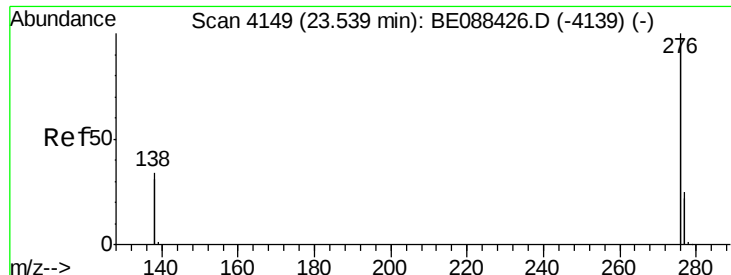
Delta R.T. 0.02 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.6	35.4
229	24.8	15.4	23.2#





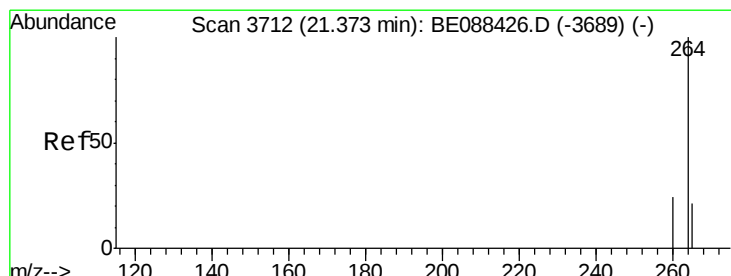
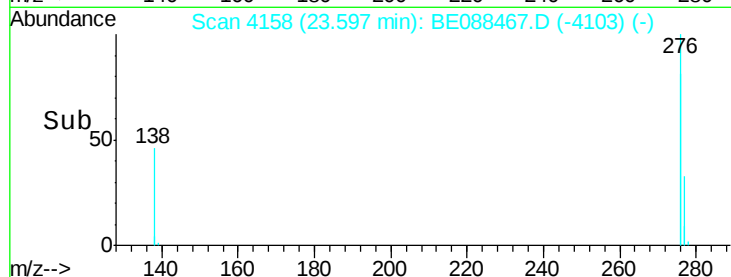
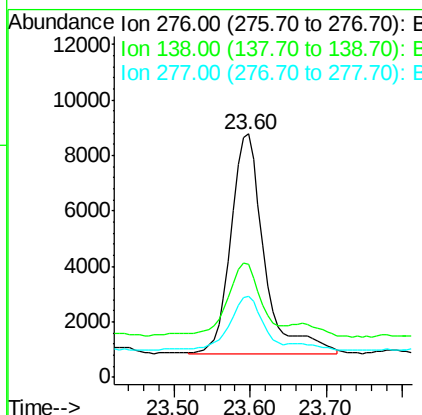
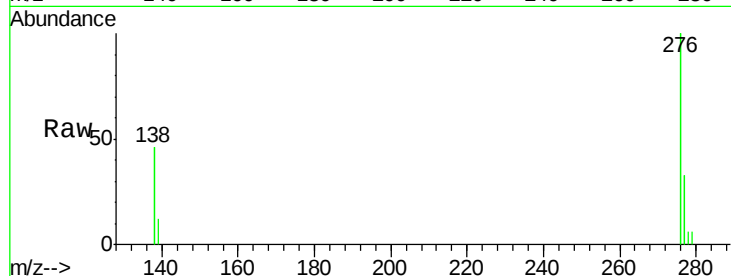
#21
Indeno(1,2,3-cd)pyrene
Concen: 0.42 ng m
RT: 23.60 min Scan# 4158
Delta R.T. 0.06 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Instrument :
BNA_E
ClientSampleId :
YS19-SS41-1014RE

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.8	20.2	30.2
277	23.2	14.8	22.2

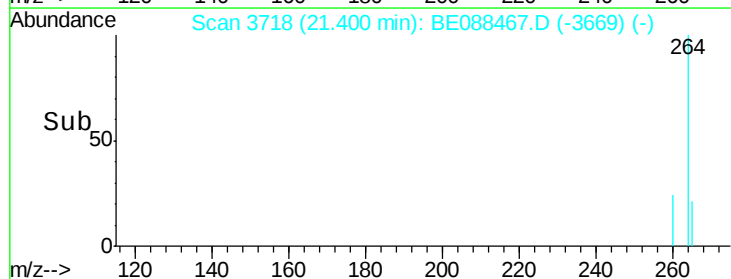
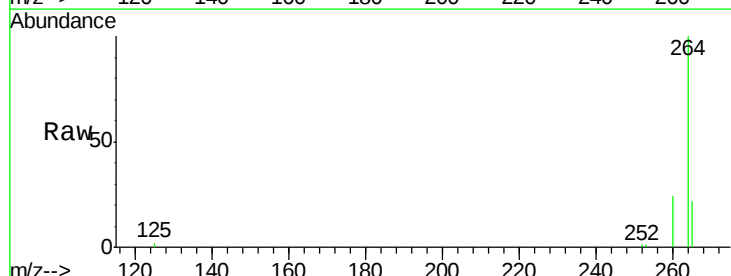
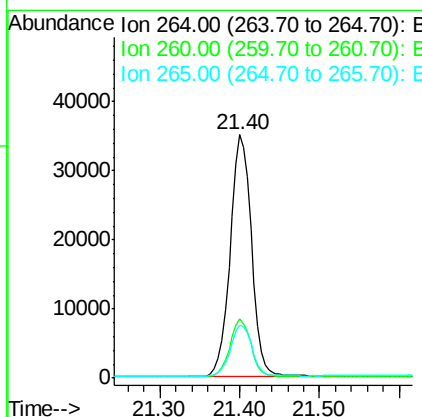
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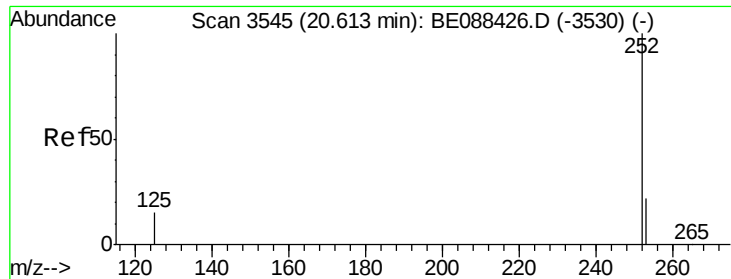
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#22
Perylene-d12
Concen: 5.00 ng
RT: 21.40 min Scan# 3718
Delta R.T. 0.03 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.9	28.3
265	21.8	17.2	25.8





#23

Benzo(b)fluoranthene

Concen: 0.89 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.03 min

Lab File: BE088467.D

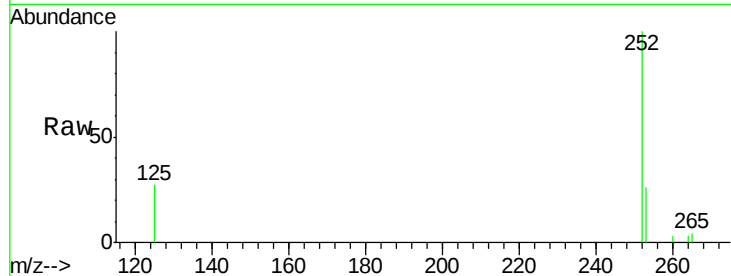
Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

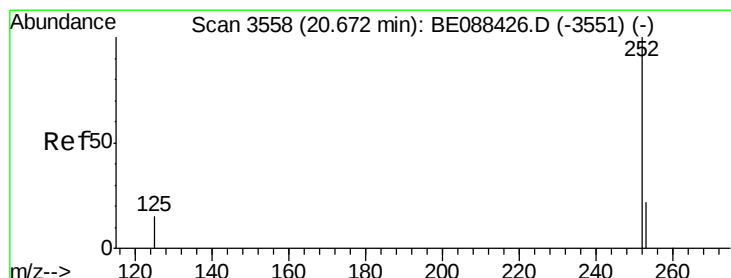
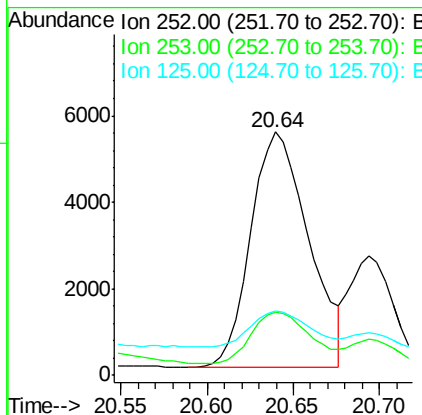
YS19-SS41-1014RE



Tgt Ion:	252	Resp:	12721
Ion Ratio	Lower	Upper	
252	100		
253	26.1	17.8	26.8
125	26.5	12.3	18.5#

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#24

Benzo(k)fluoranthene

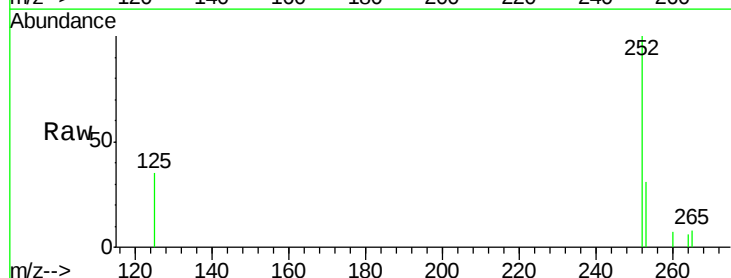
Concen: 0.29 ng

RT: 20.69 min Scan# 3563

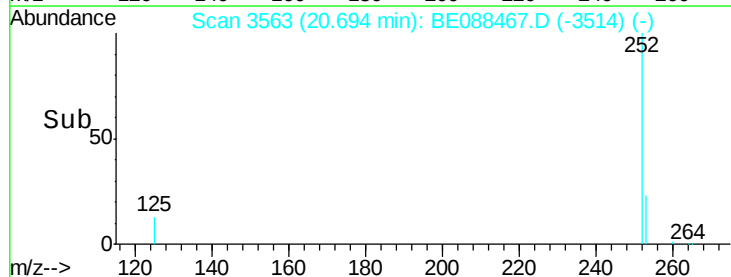
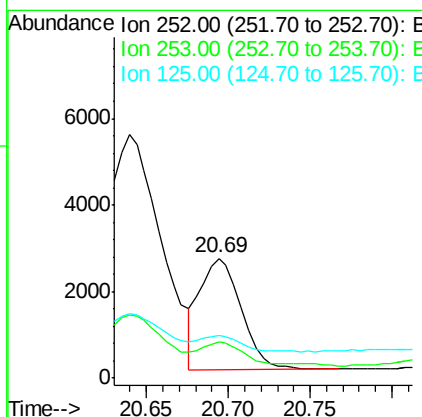
Delta R.T. 0.02 min

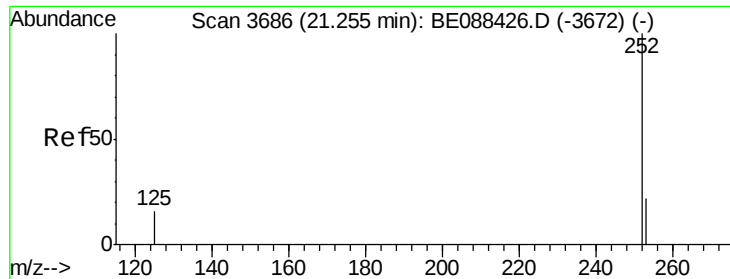
Lab File: BE088467.D

Acq: 2 Nov 2014 00:17



Tgt Ion:	252	Resp:	4516
Ion Ratio	Lower	Upper	
252	100		
253	30.6	17.8	26.8#
125	35.3	12.2	18.4#





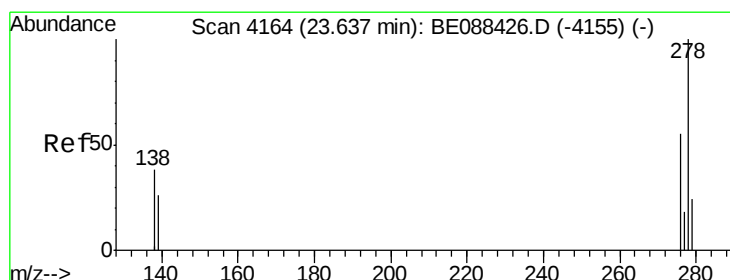
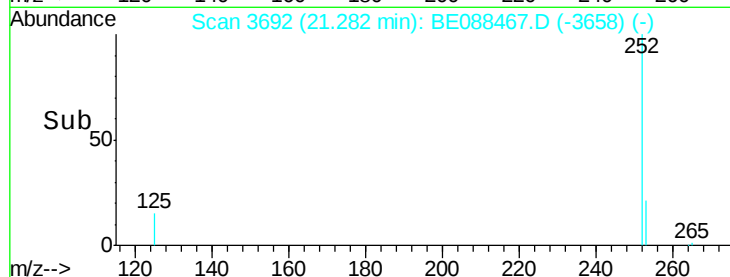
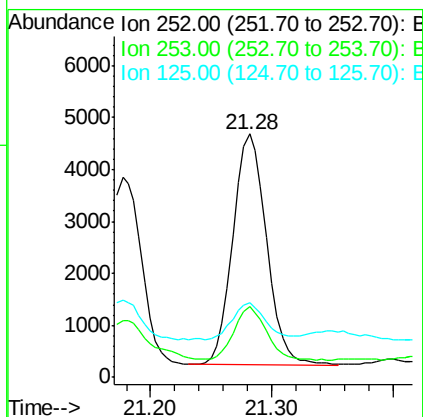
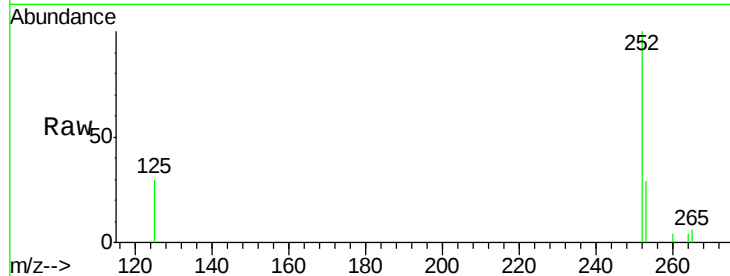
#25
Benzo(a)pyrene
Concen: 0.62 ng
RT: 21.28 min Scan# 3692
Delta R.T. 0.03 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Instrument :
BNA_E
ClientSampleId :
YS19-SS41-1014RE

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.8	18.2	27.4#
125	30.4	13.7	20.5#

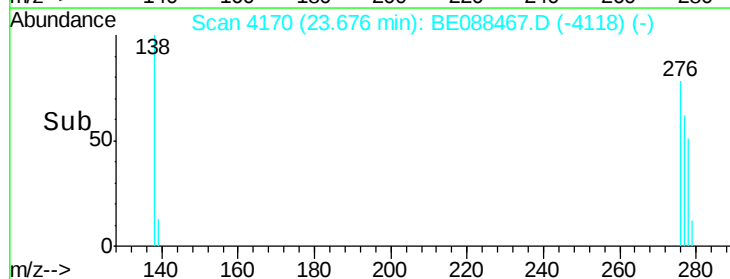
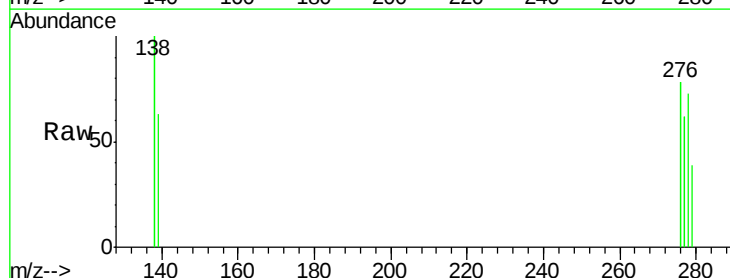
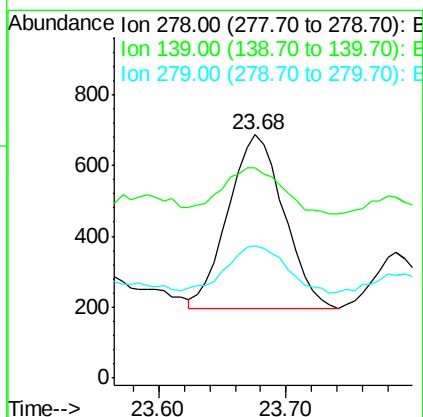
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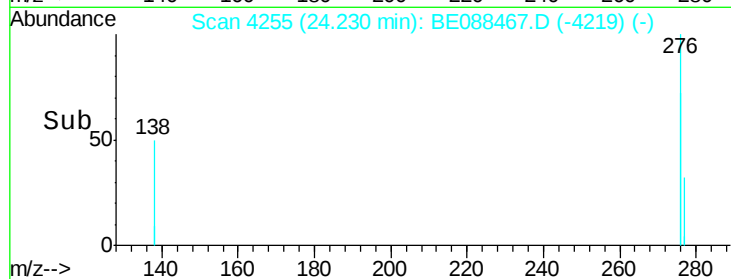
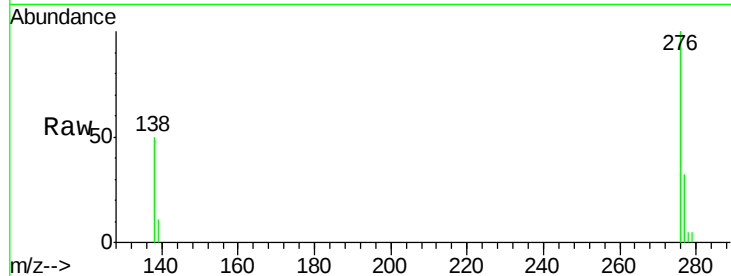
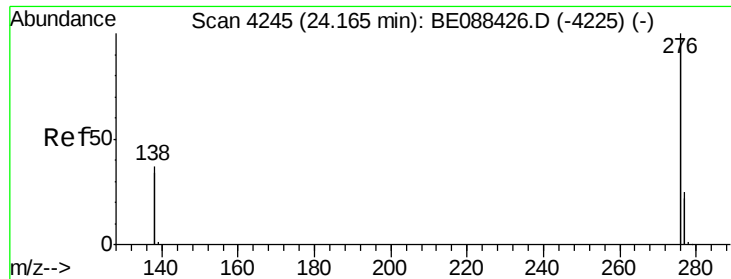
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#26
Dibenzo(a,h)anthracene
Concen: 0.12 ng
RT: 23.68 min Scan# 4170
Delta R.T. 0.04 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	86.5	22.1	33.1#
279	54.4	19.7	29.5#





#27
Benzo(g,h,i)perylene
Concen: 0.44 ng
RT: 24.23 min Scan# 4255
Delta R.T. 0.06 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Instrument :
BNA_E
ClientSampleId :
YS19-SS41-1014RE

Tgt Ion	Ratio	Lower	Upper
276	100		
277	31.9	19.8	29.6#
138	49.5	29.3	43.9#

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