

Data Path : Z:\HPCHEM1\BNA E\DATA\BE052516\
 Data File : BE091872.D
 Acq On : 25 May 2016 23:34
 Operator : UM/SJ
 Sample : H3156-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517

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Quant Time: May 26 02:02:15 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE052516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 19:42:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	30392	5.00	ng	0.00
8) Naphthalene-d8	10.55	136	155555	5.00	ng	0.00
15) Acenaphthene-d10	14.40	164	95216	5.00	ng	0.00
24) Phenanthrene-d10	17.13	188	276730	5.00	ng	-0.01
31) Chrysene-d12	21.29	240	280945	5.00	ng	0.00
40) Perylene-d12	23.72	264	257671	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	51990	5.98	ng	0.00
5) Phenol-d6	6.96	99	86505	7.59	ng	0.00
9) Nitrobenzene-d5	8.91	82	38889	3.08	ng	-0.02
16) 2,4,6-Tribromophenol	15.87	330	29155	6.87	ng	-0.02
17) 2-Fluorobiphenyl	13.01	172	113909	4.02	ng	-0.02
34) Terphenyl-d14	19.74	244	181125	4.27	ng	0.00
Target Compounds						
18) Acenaphthylene	14.10	152	2894	0.04	ng	# 64
20) Acenaphthene	14.44	154	1426	0.02	ng	# 80
22) Fluorene	15.44	166	1318	0.04	ng	# 96
27) Pentachlorophenol	16.78	266	250	0.07	ng	94
28) Phenanthrene	17.17	178	53630	0.97	ng	100
29) Anthracene	17.26	178	9174m	0.17	ng	
30) Fluoranthene	19.17	202	228595	3.71	ng	99
33) Pyrene	19.53	202	209246	3.51	ng	95
35) Benzo(a)anthracene	21.27	228	163725m	2.19	ng	
37) Chrysene	21.31	228	146699m	2.61	ng	
38) Bis(2-ethylhexyl)phthalate	21.17	149	6261	0.23	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.25	276	126556	1.80	ng	95
41) Benzo(b)fluoranthene	22.96	252	246484m	3.55	ng	
42) Benzo(k)fluoranthene	23.01	252	83451m	1.32	ng	
43) Benzo(a)pyrene	23.60	252	145536	2.31	ng	97
44) Dibenzo(a,h)anthracene	26.27	278	28922	0.48	ng	# 94
45) Benzo(a,h,i)perylene	27.05	276	131511	2.15	ng	98

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

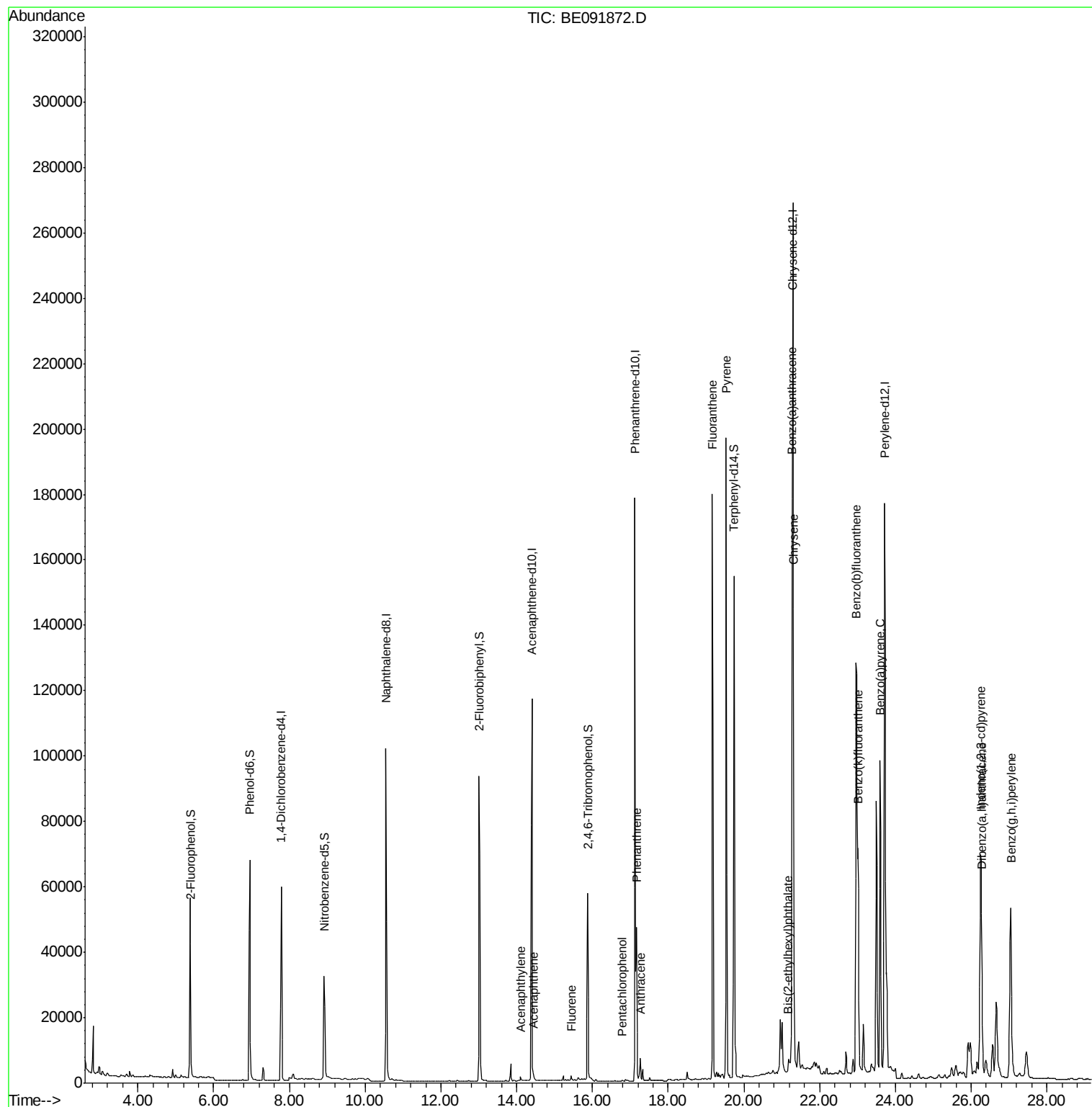
Data Path : Z:\HPCHEM1\BNA E\DATA\BE052516\
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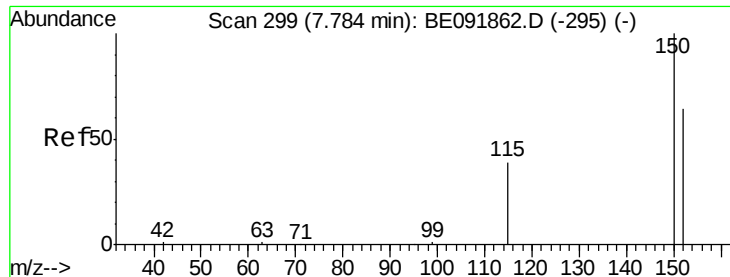
Instrument :
BNA_E
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SP-001-160517

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.79 min Scan# 299

Delta R.T. 0.00 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Instrument :

BNA_E

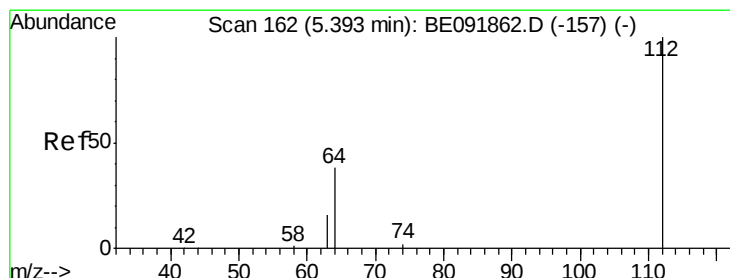
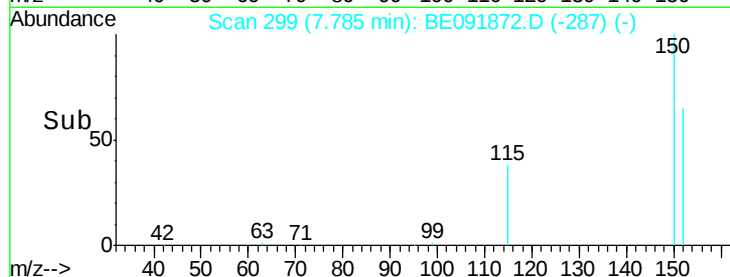
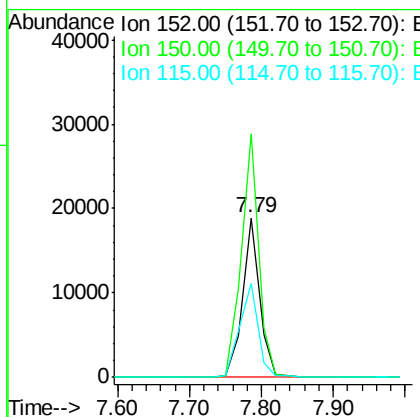
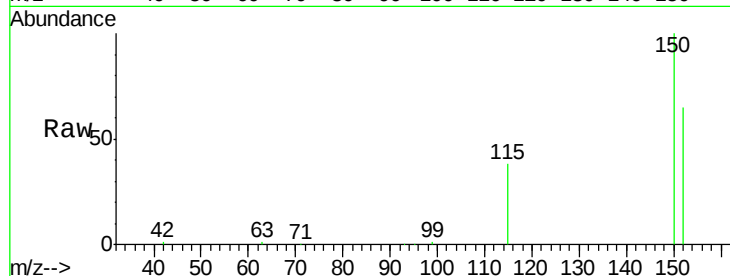
ClientSampleId :

SP-001-160517

Tot Ion:	152	Resp:	30392
Ion	Ratio	Lower	Upper
152	100		
150	152.9	123.9	185.9
115	58.7	48.3	72.5

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#4

2-Fluorophenol

Concen: 5.98 ng

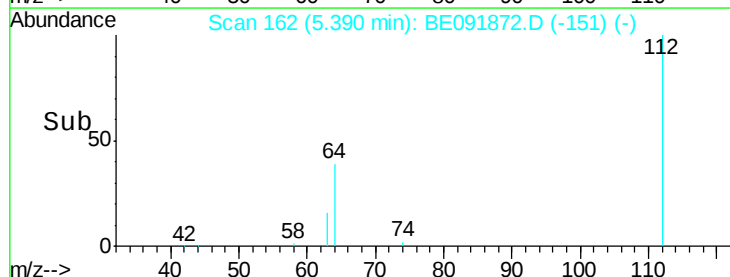
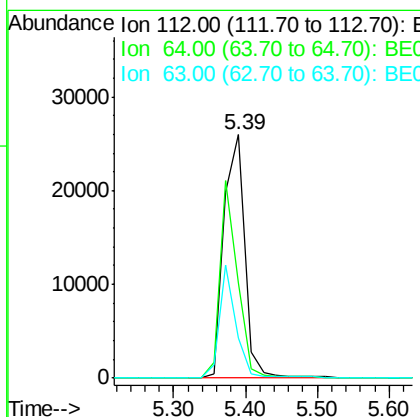
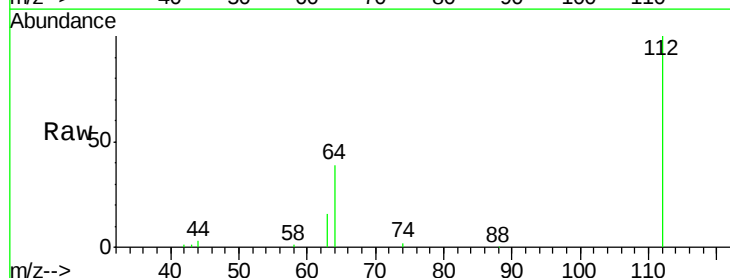
RT: 5.39 min Scan# 162

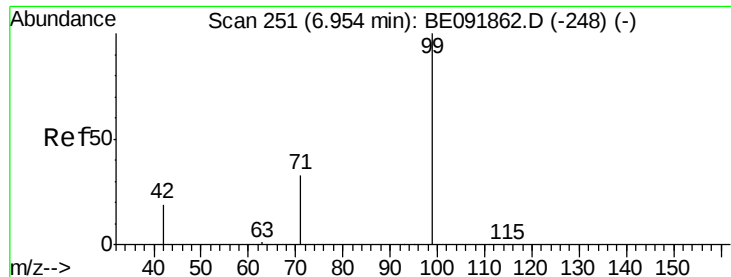
Delta R.T. -0.00 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Tgt Ion:	112	Resp:	51990
Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.7	80.5
63	36.4	29.5	44.3





#5

Phenol-d6

Concen: 7.59 ng

RT: 6.96 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Instrument :

BNA_E

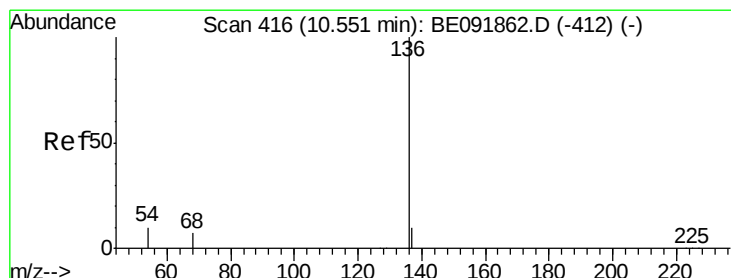
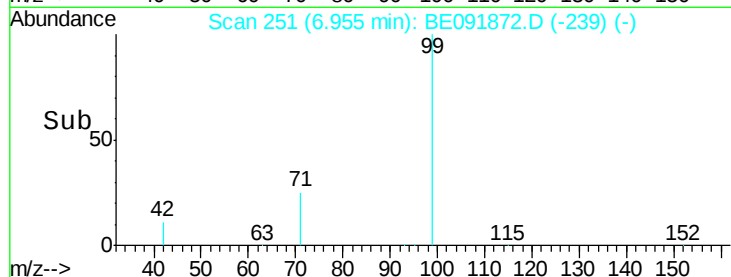
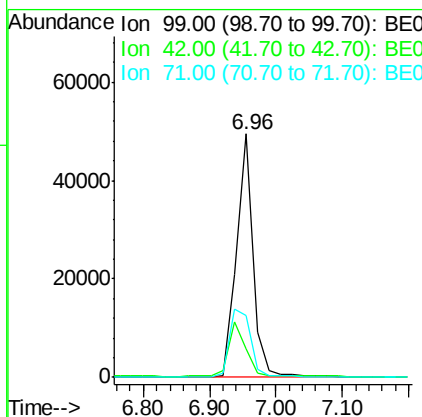
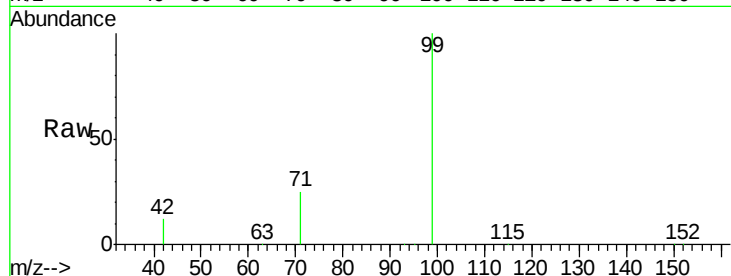
ClientSampleId :

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Tot Ion:	99	Resp:	86505
Ion Ratio	Lower	Upper	
99	100		
42	22.9	19.6	29.4
71	35.5	28.1	42.1

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#8

Naphthalene-d8

Concen: 5.00 ng

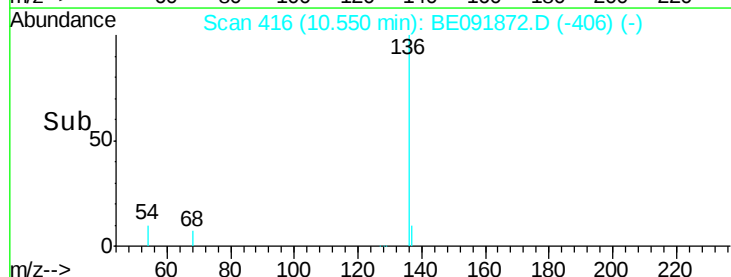
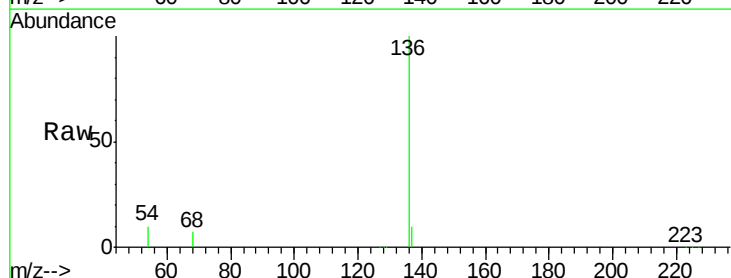
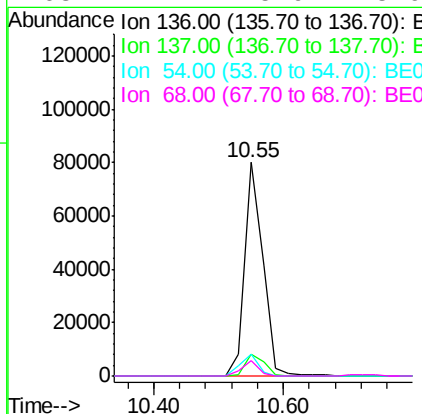
RT: 10.55 min Scan# 416

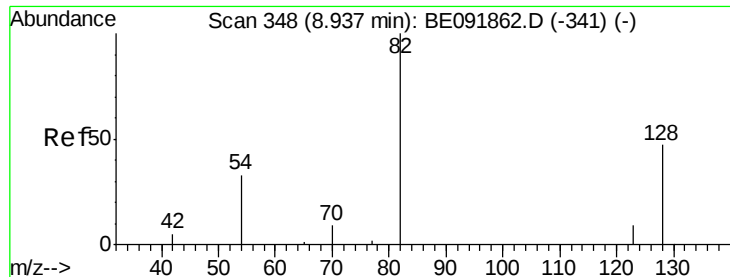
Delta R.T. -0.00 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Tgt Ion:	136	Resp:	155555
Ion Ratio	Lower	Upper	
136	100		
137	10.3	8.3	12.5
54	10.0	8.2	12.4
68	7.2	5.9	8.9





#9

Nitrobenzene-d5

Concen: 3.08 ng

RT: 8.91 min Scan# 347

Delta R.T. -0.02 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Instrument :

BNA_E

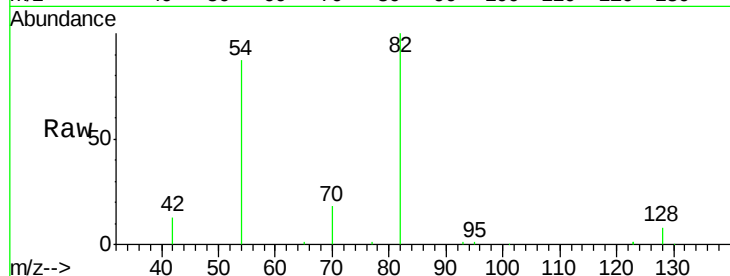
ClientSampleId :

SP-001-160517

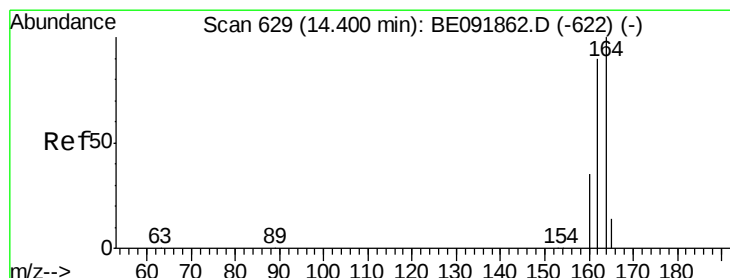
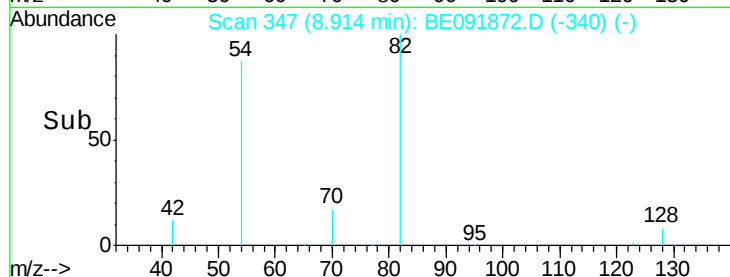
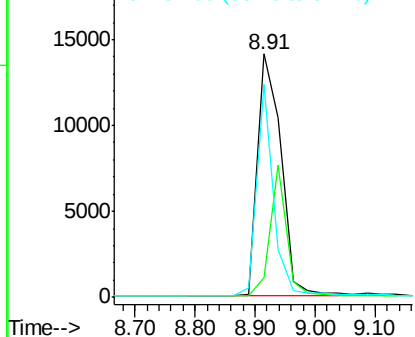
Tot Ion:	82	Resp:	38889
Ion Ratio	Lower	Upper	
82	100		
128	8.0	39.5	59.3#
54	87.4	30.3	45.5#

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



#15

Acenaphthene-d10

Concen: 5.00 ng

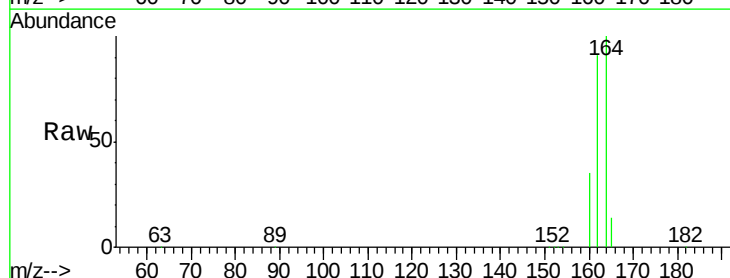
RT: 14.40 min Scan# 629

Delta R.T. 0.00 min

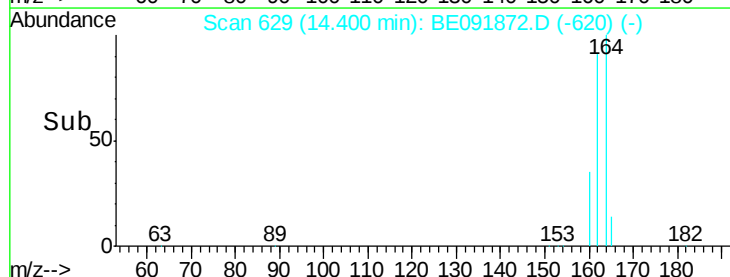
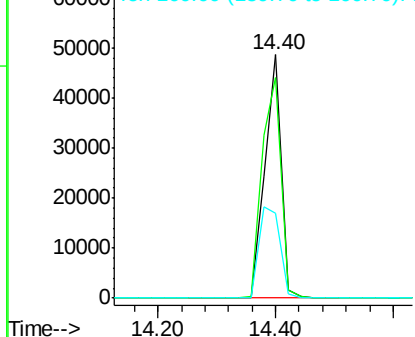
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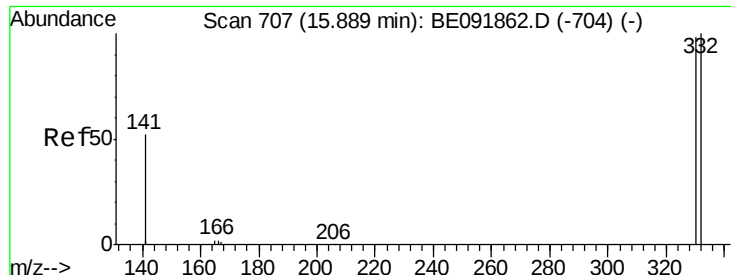
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Tgt Ion:	164	Resp:	95216
Ion Ratio	Lower	Upper	
164	100		
162	90.7	71.8	107.8
160	34.8	28.0	42.0



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





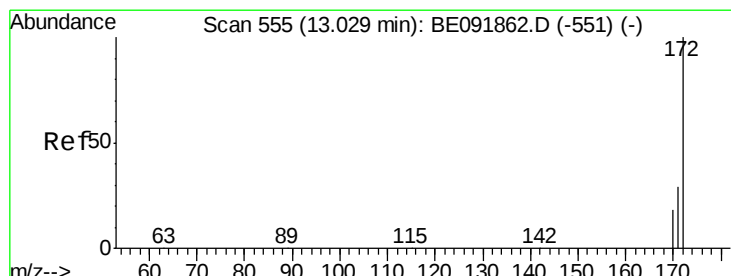
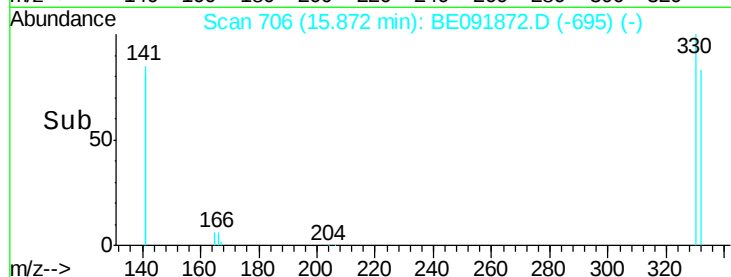
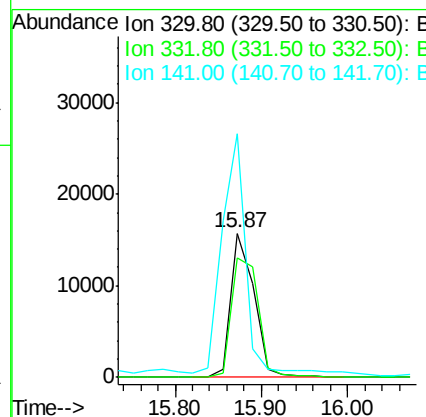
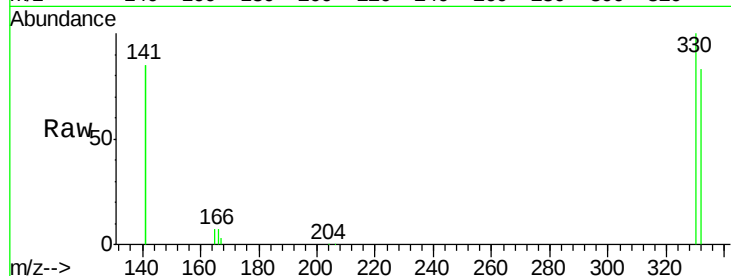
#16
 2,4,6-Tribromophenol
 Concen: 6.87 ng
 RT: 15.87 min Scan# 706
 Delta R.T. -0.02 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Instrument :
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 ClientSampleId :
 SP-001-160517

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.0	115.6
141	168.1	138.4	207.6

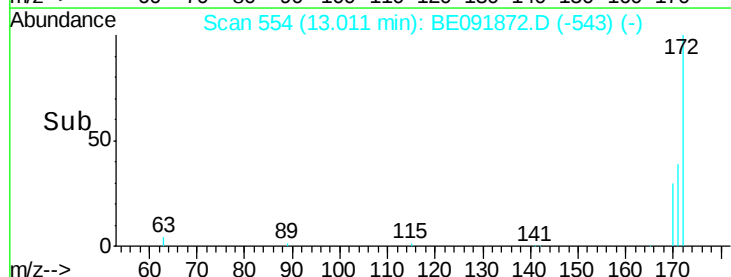
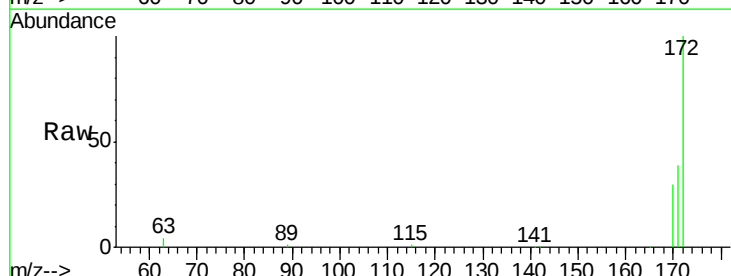
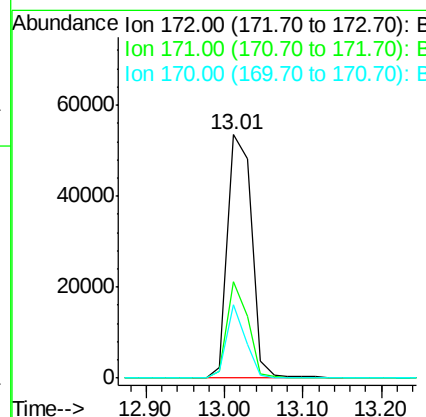
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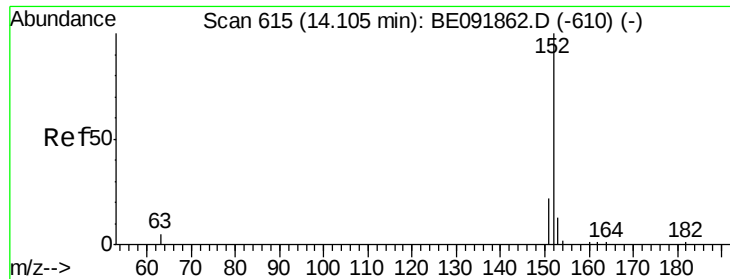
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#17
 2-Fluorobiphenyl
 Concen: 4.02 ng
 RT: 13.01 min Scan# 554
 Delta R.T. -0.02 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.4	24.3	36.5#
170	30.1	14.9	22.3#





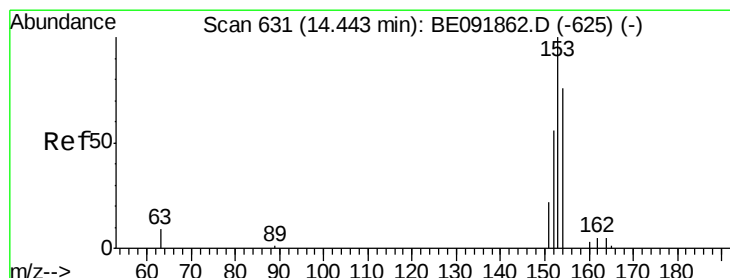
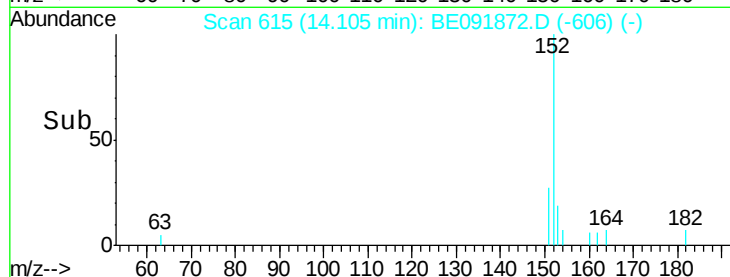
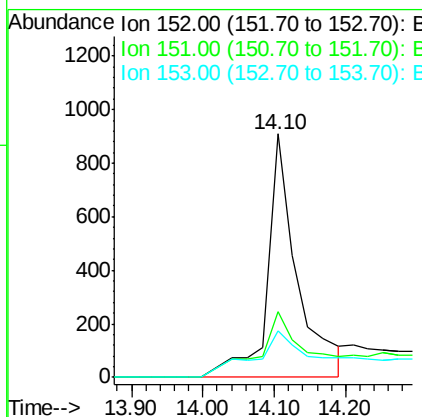
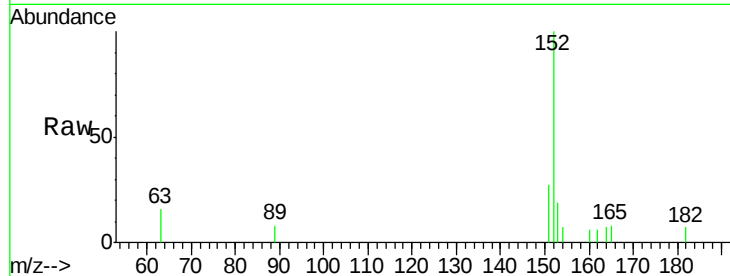
#18
Acenaphthylene
Concen: 0.04 ng
RT: 14.10 min Scan# 615
Delta R.T. 0.00 min
Lab File: BE091872.D
Acq: 25 May 2016 23:34

Instrument :
BNA_E
ClientSampleId :
SP-001-160517

Tot Ion	Ratio	Lower	Upper
152	100		
151	41.1	19.4	29.2#
153	34.9	14.4	21.6#

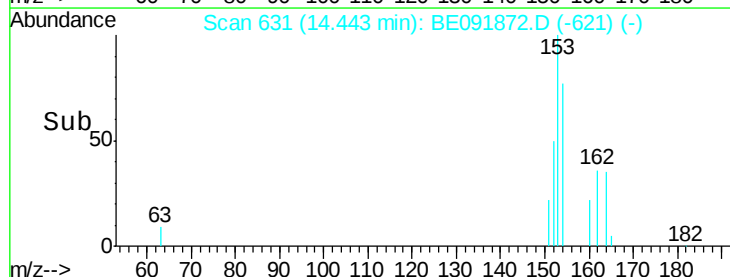
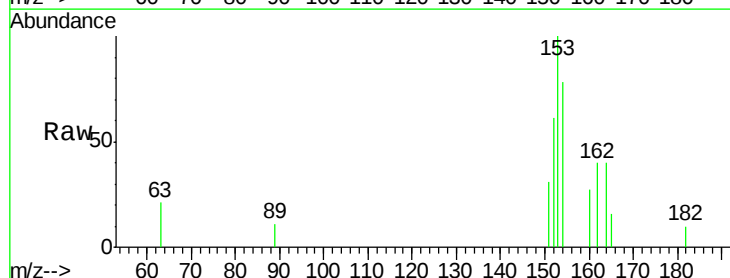
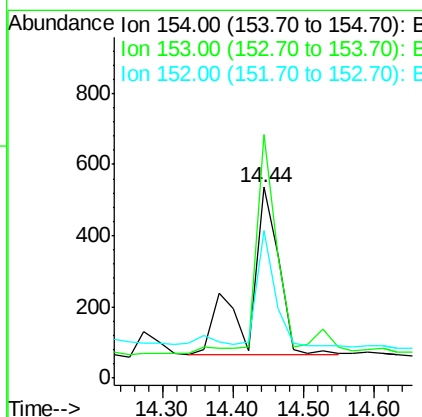
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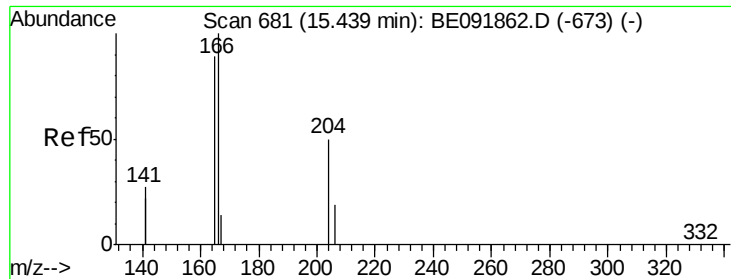
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#20
Acenaphthene
Concen: 0.02 ng
RT: 14.44 min Scan# 631
Delta R.T. 0.00 min
Lab File: BE091872.D
Acq: 25 May 2016 23:34

Tgt Ion	Ratio	Lower	Upper
154	100		
153	89.6	88.1	132.1
152	40.5	44.2	66.2#





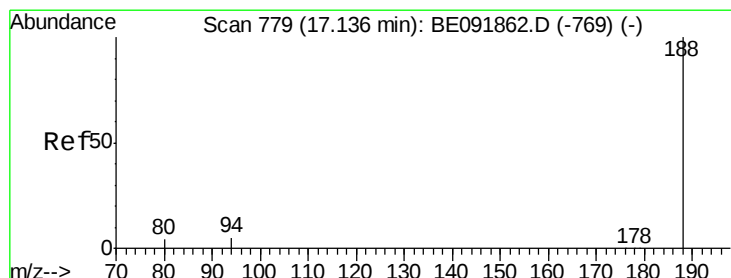
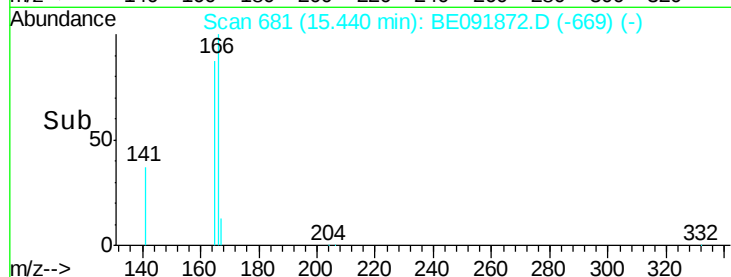
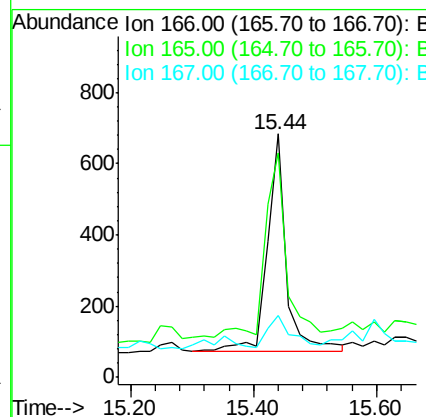
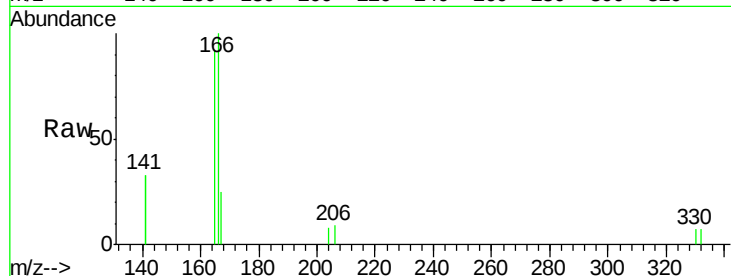
#22
Fluorene
 Concen: 0.04 ng
 RT: 15.44 min Scan# 681
 Delta R.T. 0.00 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Instrument :
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Tot Ion	Ratio	Lower	Upper
166	100		
165	95.4	78.6	117.8
167	17.8	10.8	16.2#

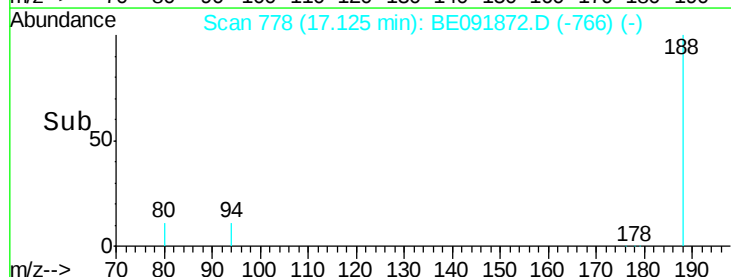
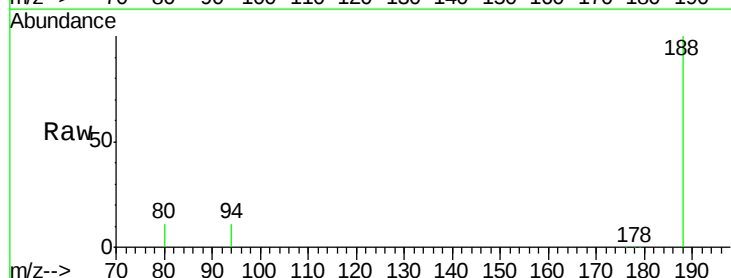
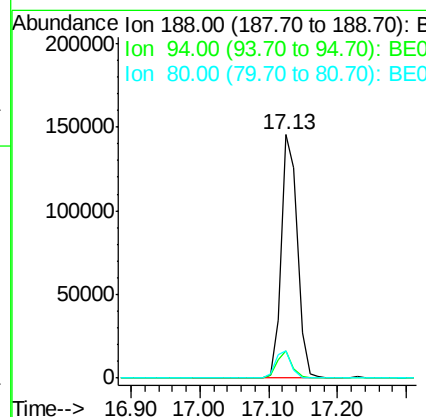
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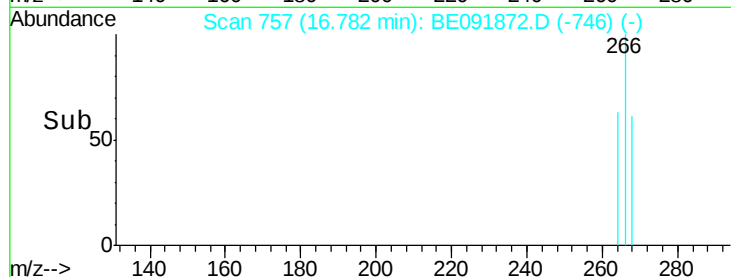
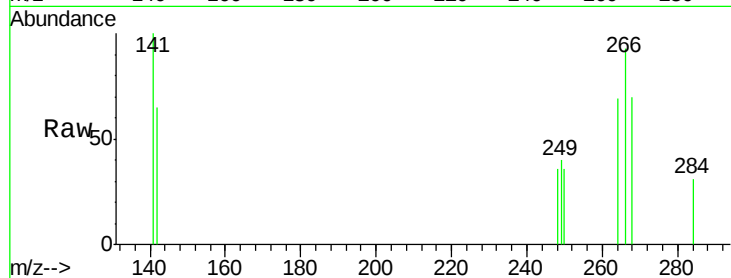
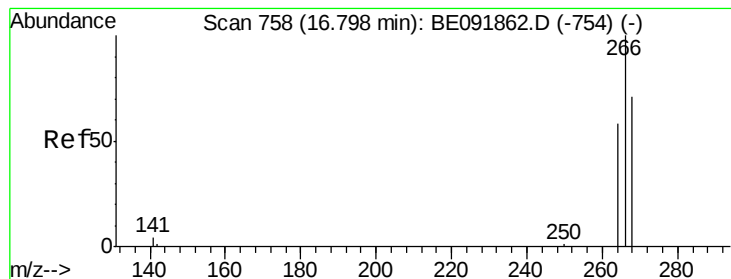
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#24
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.13 min Scan# 778
 Delta R.T. -0.01 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.3	4.1	6.1#
80	11.4	3.4	5.2#





#27

Pentachlorophenol

Concen: 0.07 ng

RT: 16.78 min Scan# 757

Delta R.T. -0.02 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Tot Ion:	266	Resp:	250
Ion Ratio	Lower	Upper	
266	100		
268	75.7	60.5	90.7
264	74.3	51.0	76.4

Instrument :

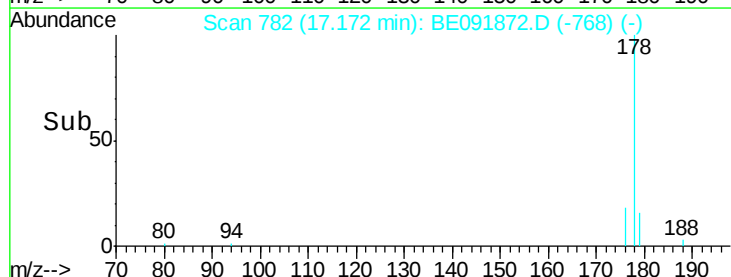
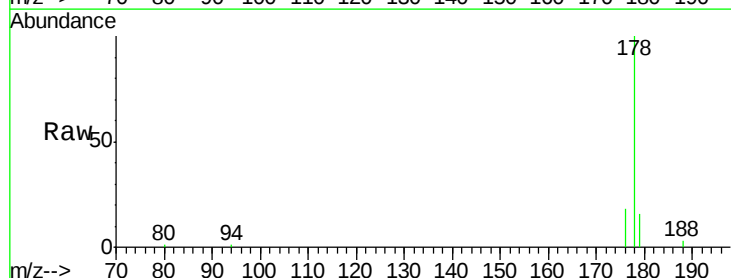
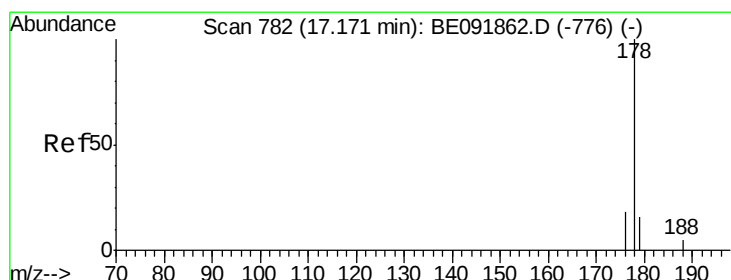
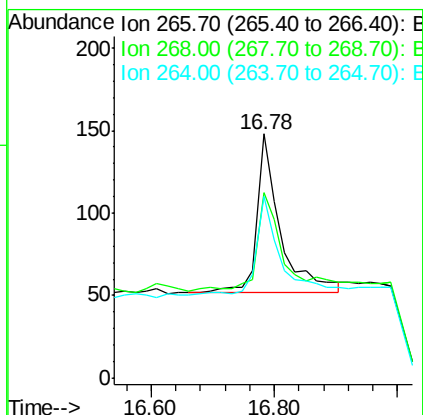
BNA_E

ClientSampleId :

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#28

Phenanthrene

Concen: 0.97 ng

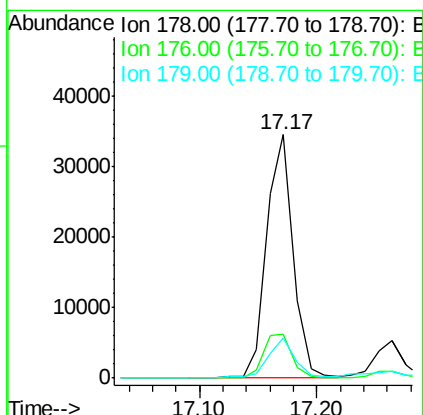
RT: 17.17 min Scan# 782

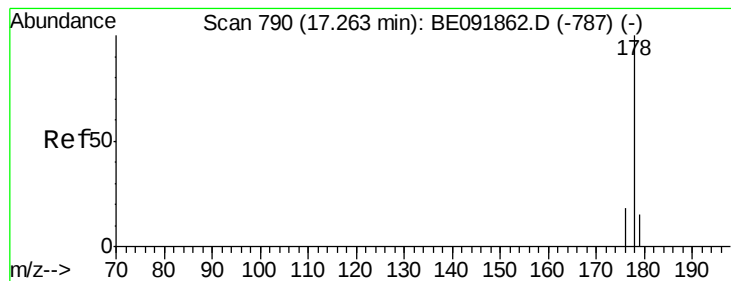
Delta R.T. 0.00 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Tgt Ion:	178	Resp:	53630
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.4	23.2
179	16.1	12.9	19.3





#29

Anthracene

Concen: 0.17 ng/mL

RT: 17.26 min Scan# 790

Delta R.T. 0.00 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Instrument :

BNA_E

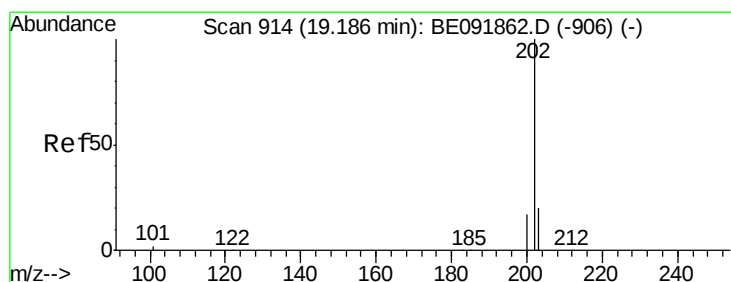
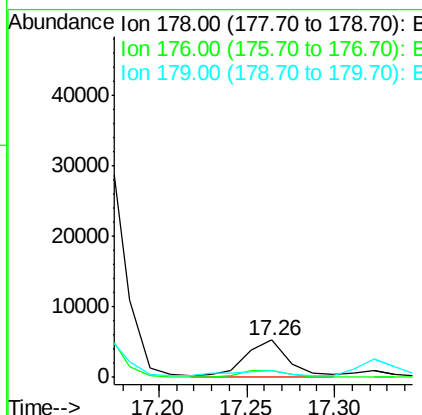
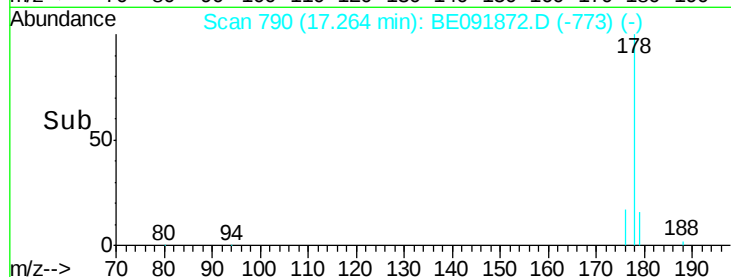
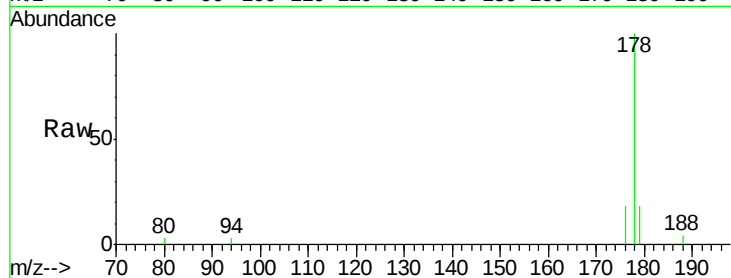
ClientSampleId :

SP-001-160517

Tot Ion:	178	Resp:	9174
Ion	Ratio	Lower	Upper
178	100		
176	112.9	15.1	22.7#
179	92.2	12.1	18.1#

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#30

Fluoranthene

Concen: 3.71 ng

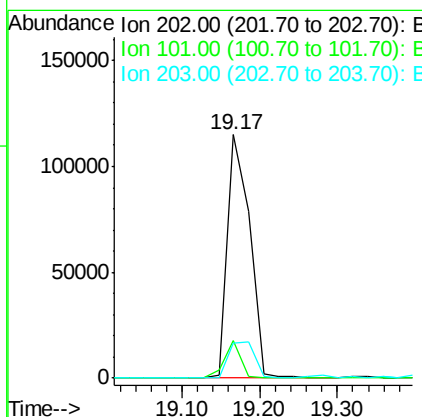
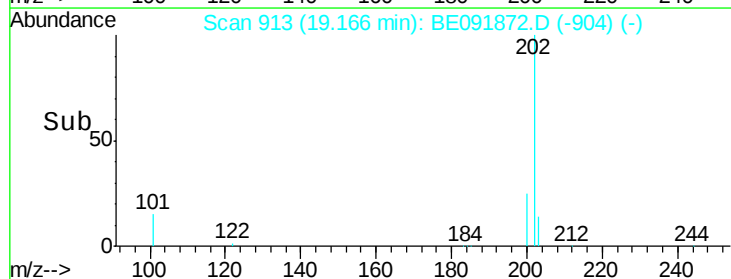
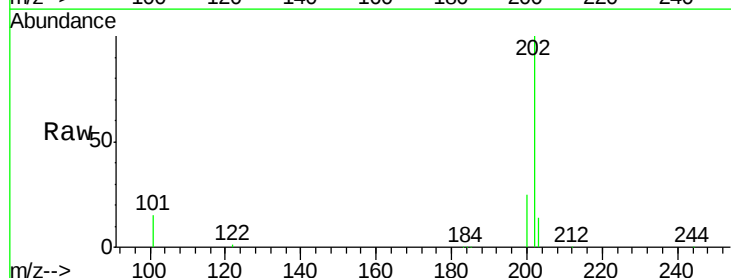
RT: 19.17 min Scan# 913

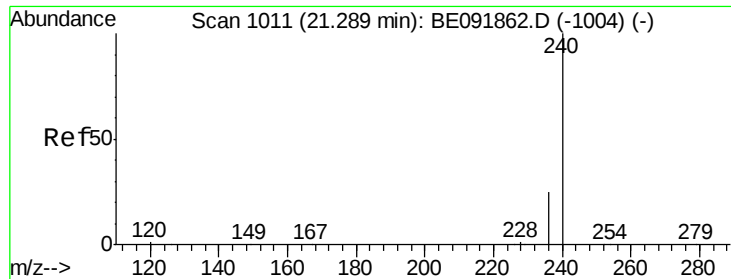
Delta R.T. -0.02 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Tgt Ion:	202	Resp:	228595
Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.4	14.0
203	17.2	14.3	21.5





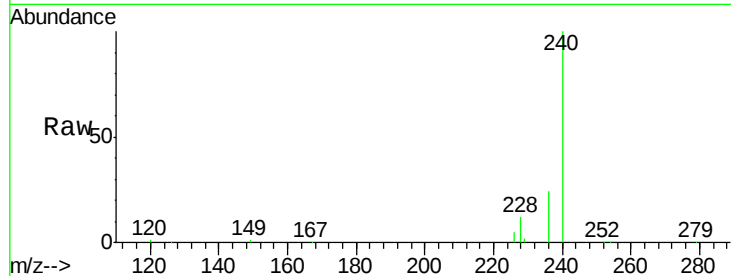
#31
Chrysene-d12
Concen: 5.00 ng
RT: 21.29 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BE091872.D
Acq: 25 May 2016 23:34

Instrument :
BNA_E
ClientSampleId :
SP-001-160517

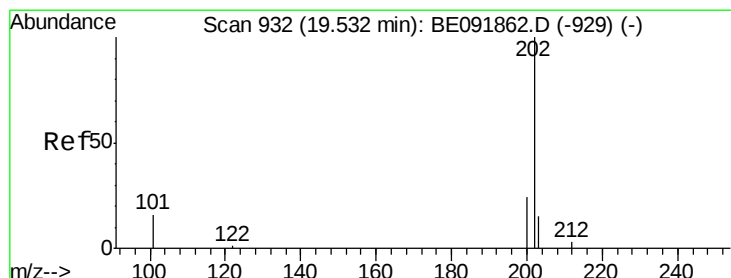
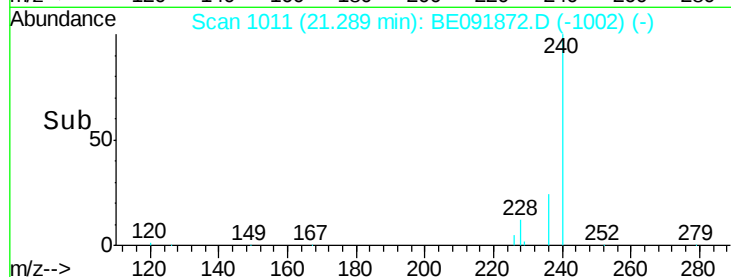
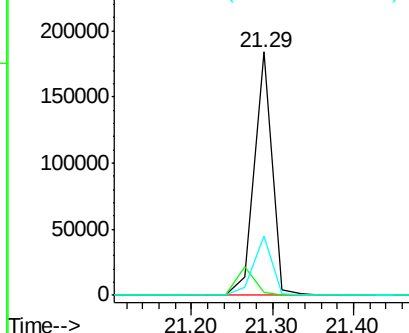
Tot Ion	Ratio	Lower	Upper
240	100		
120	1.4	1.2	1.8
236	24.3	19.8	29.8

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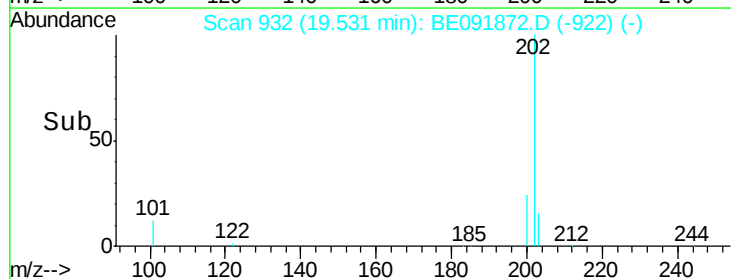
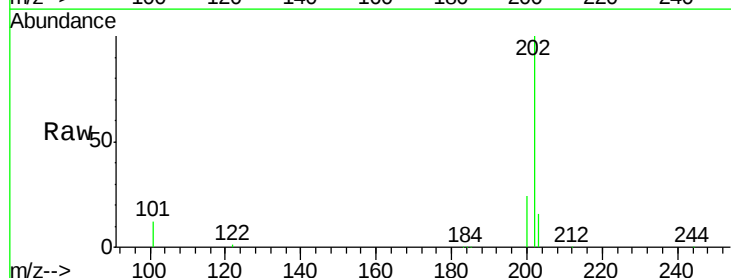
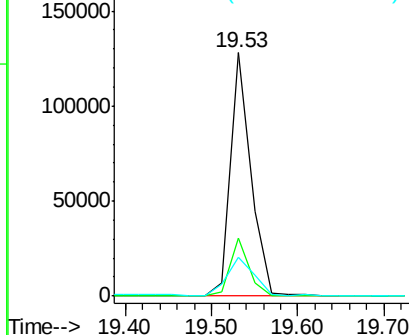
Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

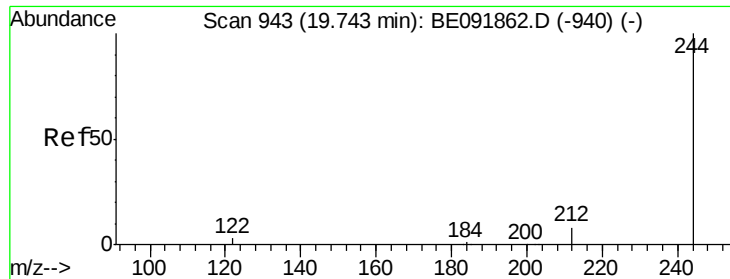


#33
Pyrene
Concen: 3.51 ng
RT: 19.53 min Scan# 932
Delta R.T. -0.00 min
Lab File: BE091872.D
Acq: 25 May 2016 23:34

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	16.9	25.3
203	20.9	14.1	21.1

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





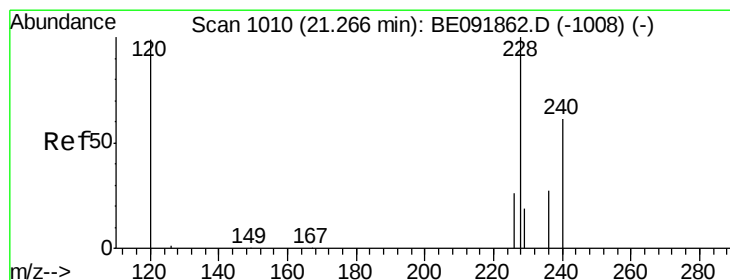
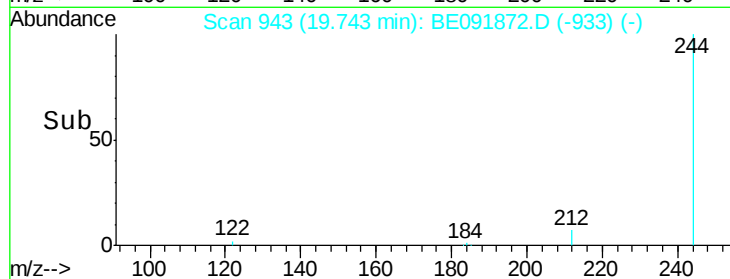
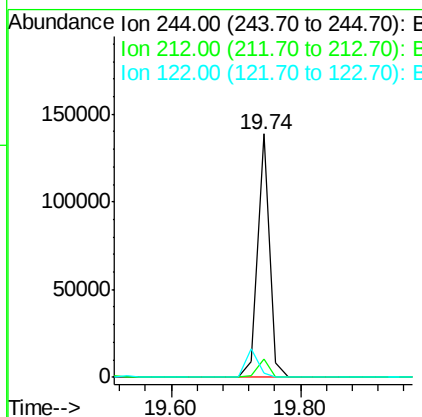
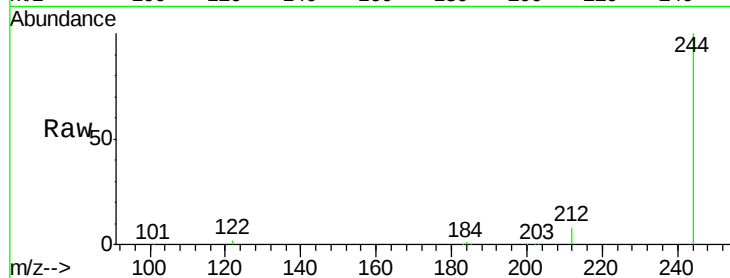
#34
 Terphenyl-d14
 Concen: 4.27 ng
 RT: 19.74 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517

Tot Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.6	6.5	9.7
122	1.9	2.9	4.3#

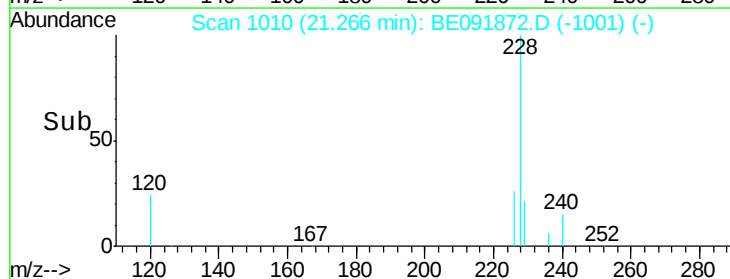
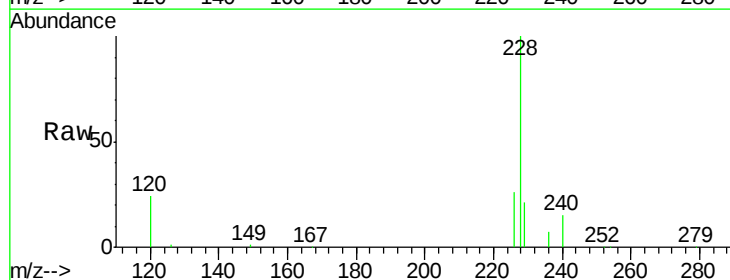
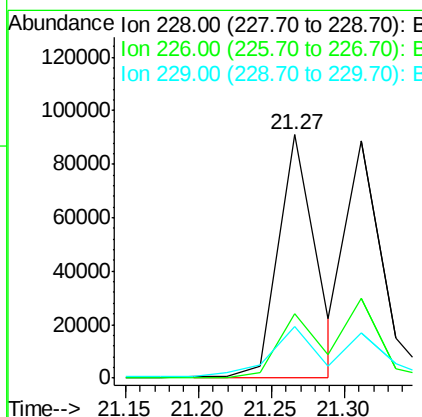
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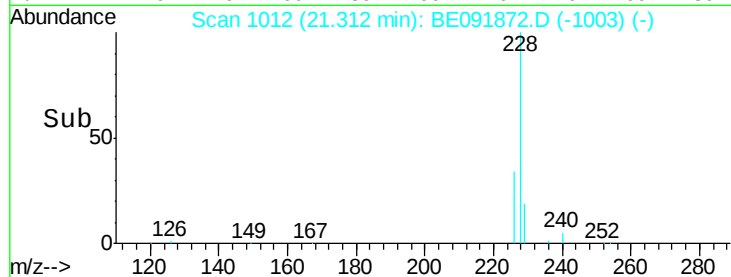
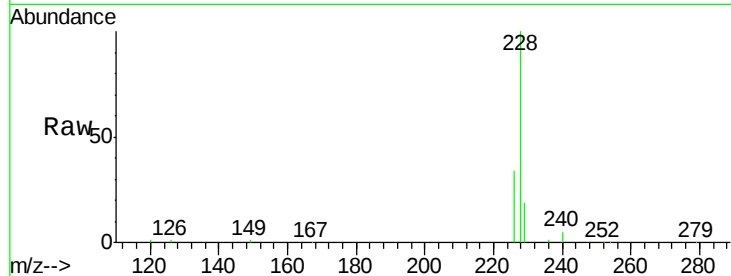
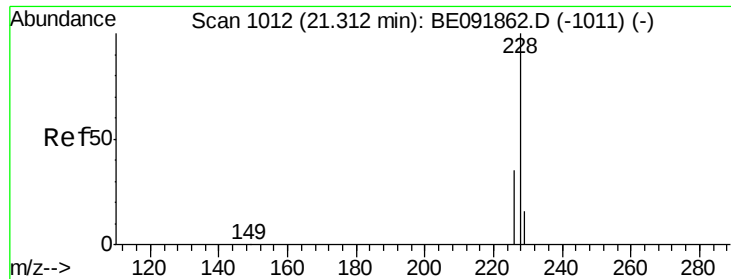
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#35
 Benzo(a)anthracene
 Concen: 2.19 ng m
 RT: 21.27 min Scan# 1010
 Delta R.T. -0.00 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	26.2	21.0	31.4
229	21.2	15.8	23.8





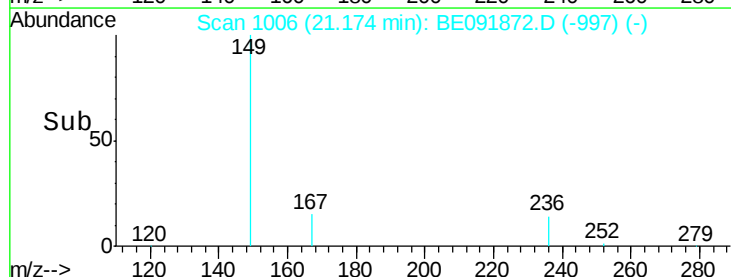
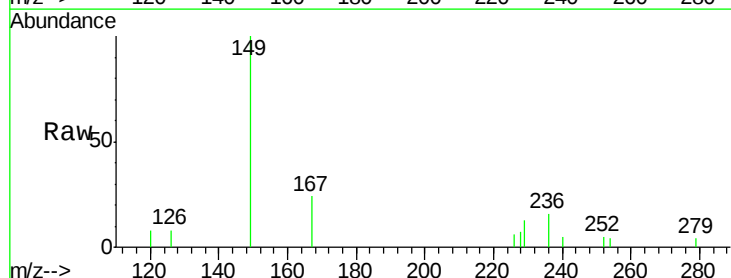
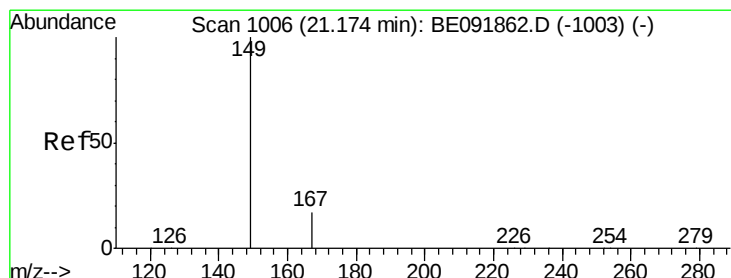
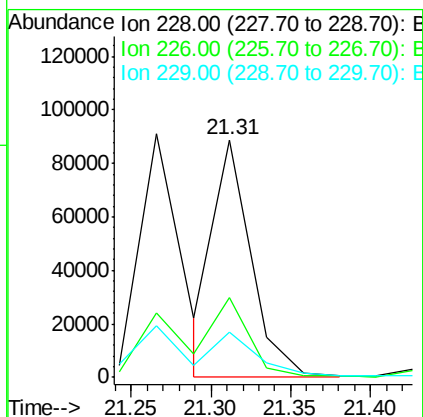
#37
 Chrysene
 Concen: 2.61 ng/mL
 RT: 21.31 min Scan# 1012
 Delta R.T. -0.00 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.7	27.0	40.6
229	19.1	13.8	20.8

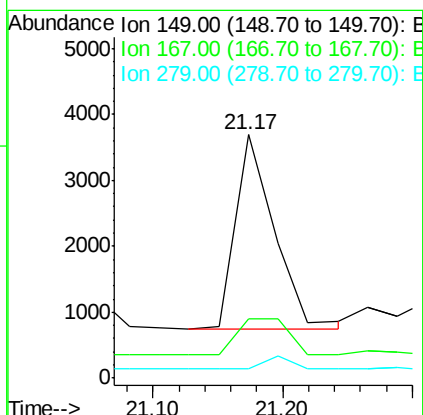
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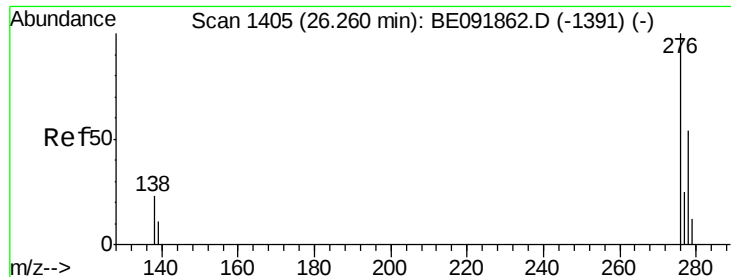
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#38
 Bis(2-ethylhexyl)phthalate
 Concen: 0.23 ng/mL
 RT: 21.17 min Scan# 1006
 Delta R.T. -0.00 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.5	0.0	0.0#
279	0.0	0.0	0.0





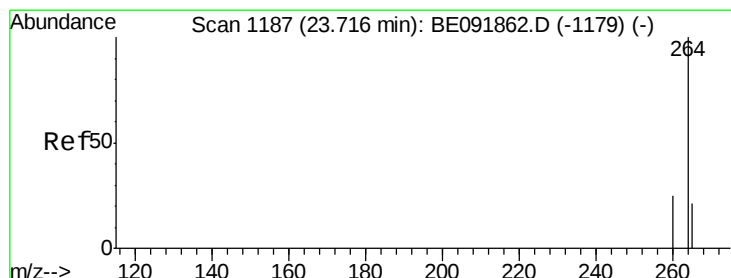
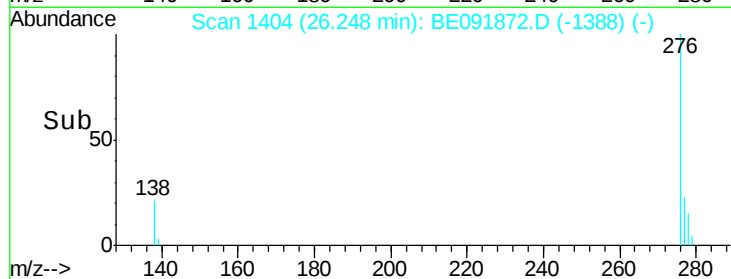
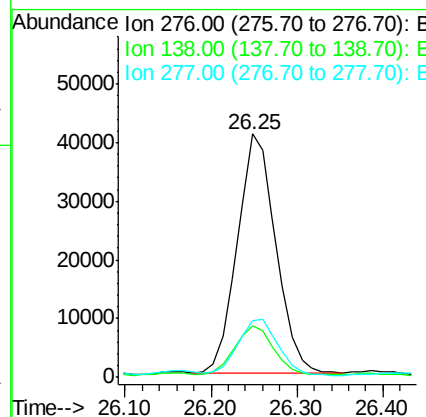
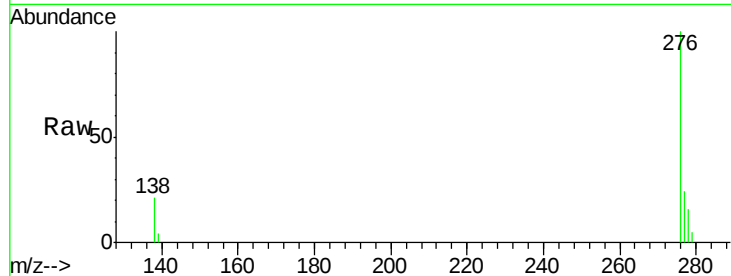
#39
Indeno(1,2,3-cd)pyrene
Concen: 1.80 ng
RT: 26.25 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BE091872.D
Acq: 25 May 2016 23:34

Instrument :
BNA_E
ClientSampleId :
SP-001-160517

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.7	19.7	29.5
277	24.3	20.1	30.1

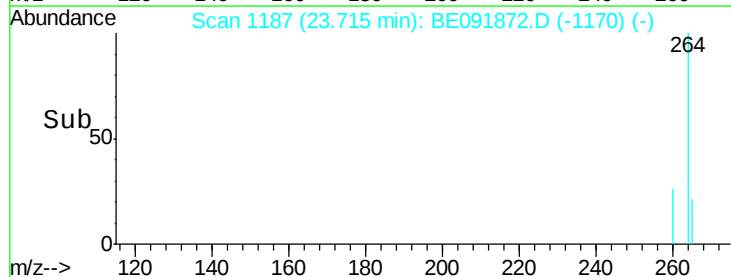
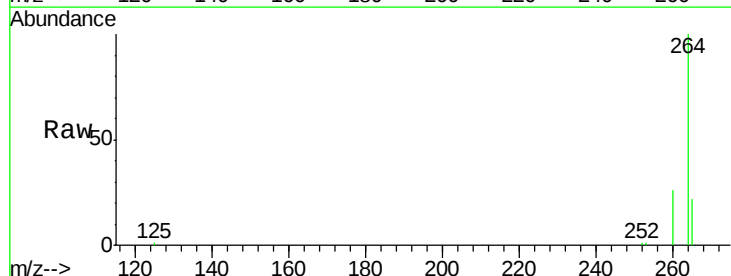
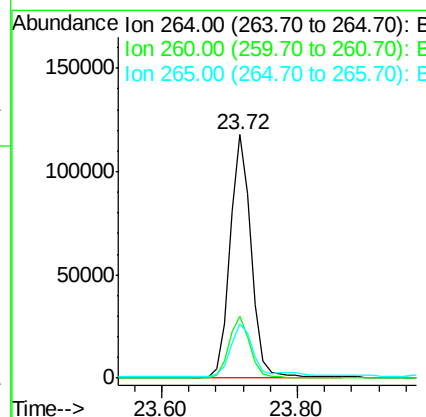
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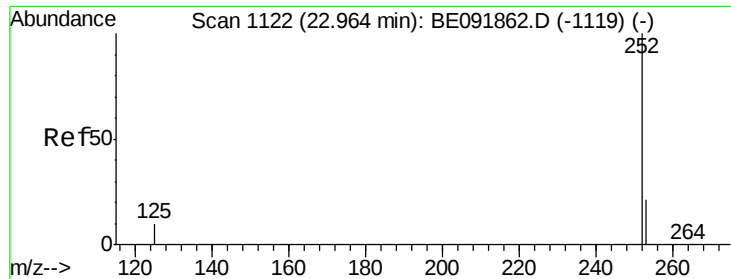
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#40
Perylene-d12
Concen: 5.00 ng
RT: 23.72 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BE091872.D
Acq: 25 May 2016 23:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.3	30.5
265	22.1	17.6	26.4





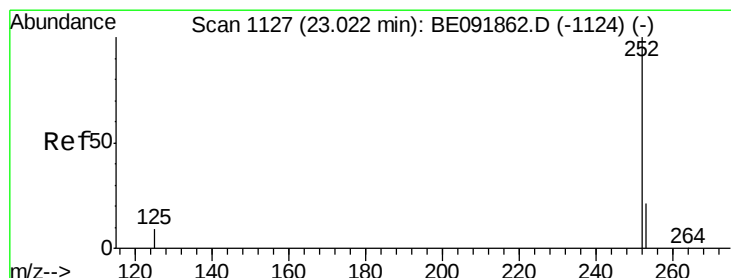
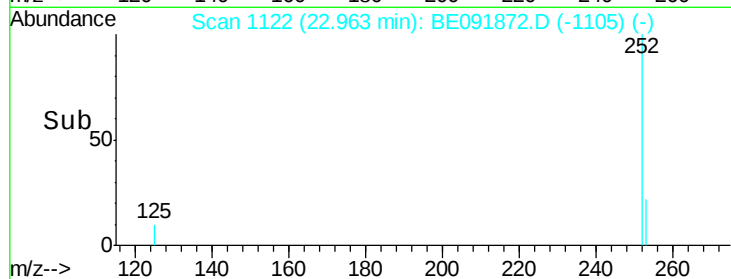
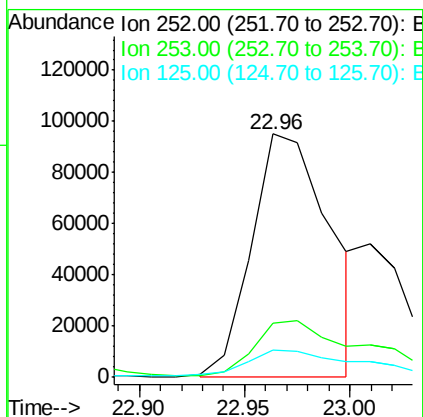
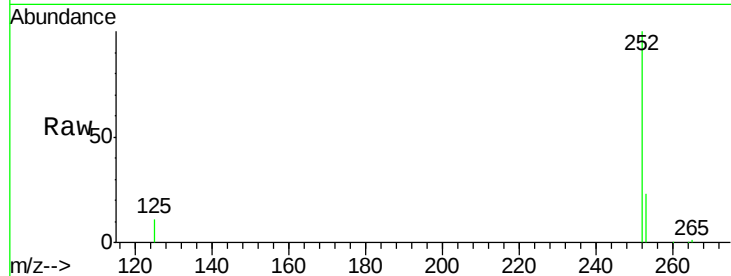
#41
Benzo(b)fluoranthene
Concen: 3.55 ng m
RT: 22.96 min Scan# 1122
Delta R.T. -0.00 min
Lab File: BE091872.D
Acq: 25 May 2016 23:34

Instrument :
BNA_E
ClientSampleId :
SP-001-160517

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	11.2	9.4	14.2

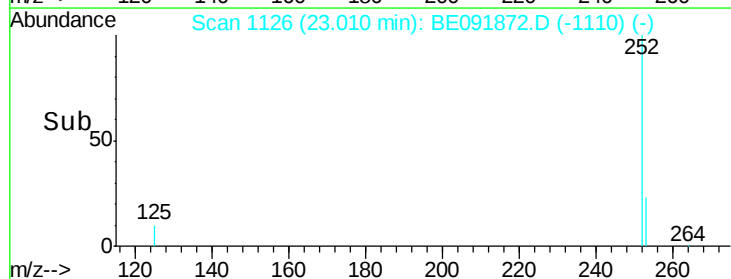
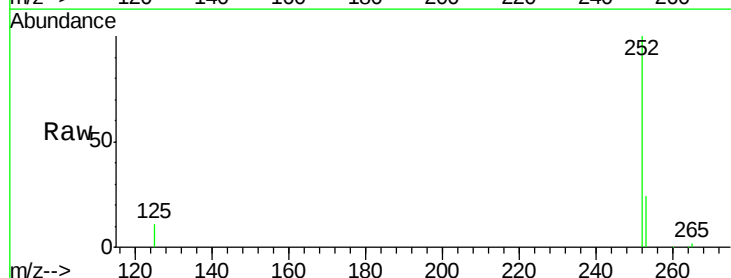
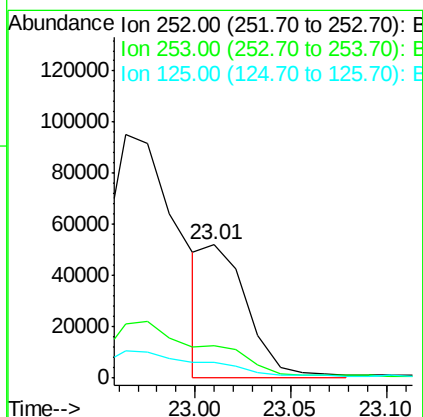
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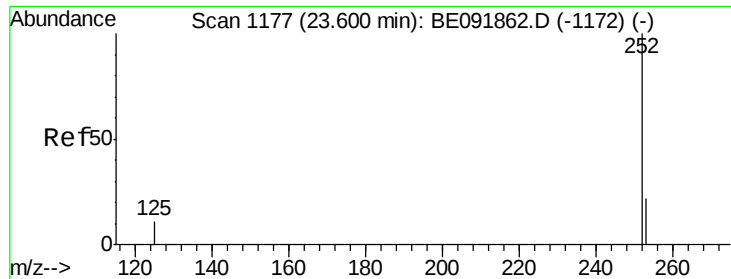
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#42
Benzo(k)fluoranthene
Concen: 1.32 ng m
RT: 23.01 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BE091872.D
Acq: 25 May 2016 23:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	19.4	29.2
125	11.5	8.3	12.5





#43

Benzo(a)pyrene

Concen: 2.31 ng

RT: 23.60 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Instrument :

BNA_E

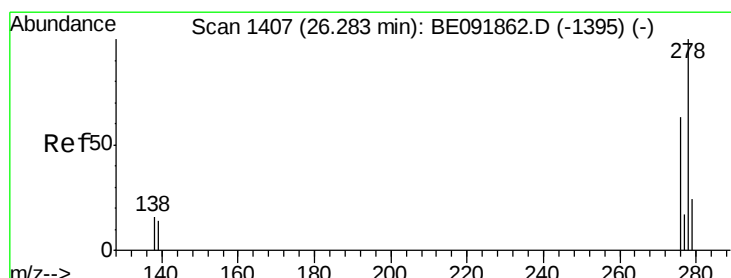
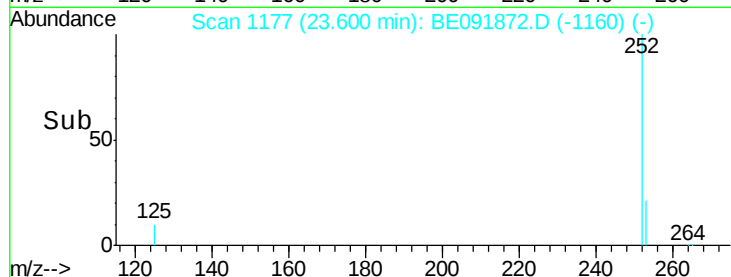
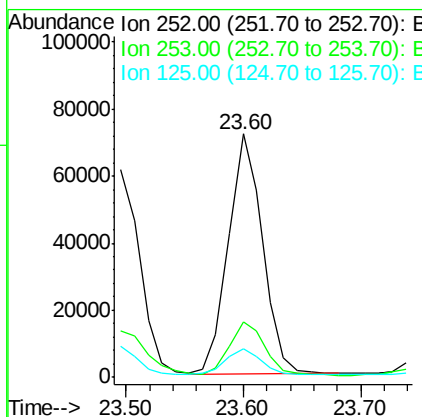
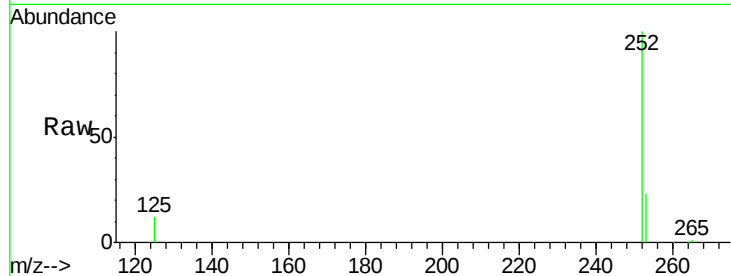
ClientSampleId :

SP-001-160517

Tot Ion:	252	Resp:	145536
Ion Ratio	Lower	Upper	
252	100		
253	22.7	18.9	28.3
125	11.6	10.5	15.7

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#44

Dibenzo(a,h)anthracene

Concen: 0.48 ng

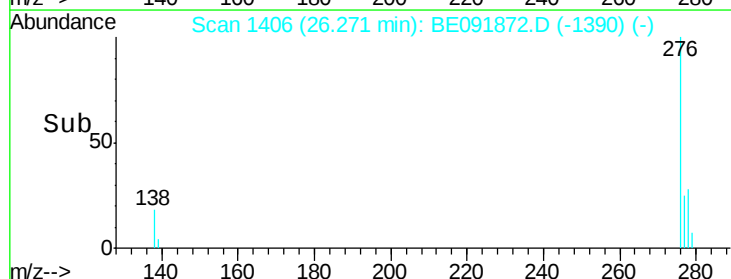
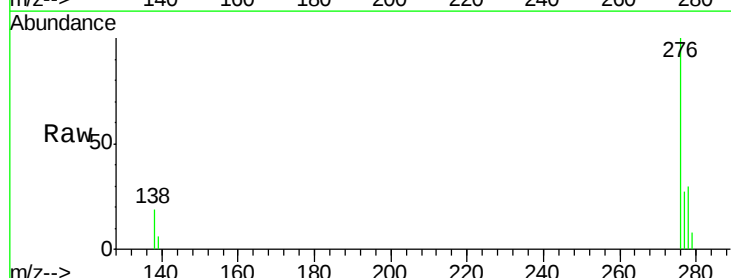
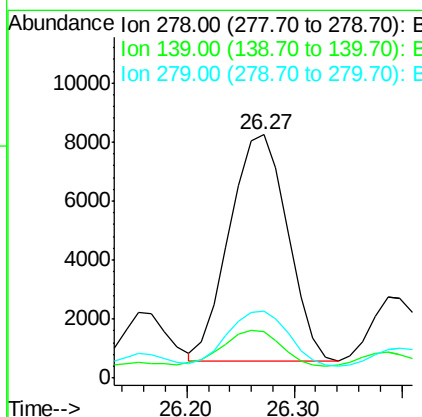
RT: 26.27 min Scan# 1406

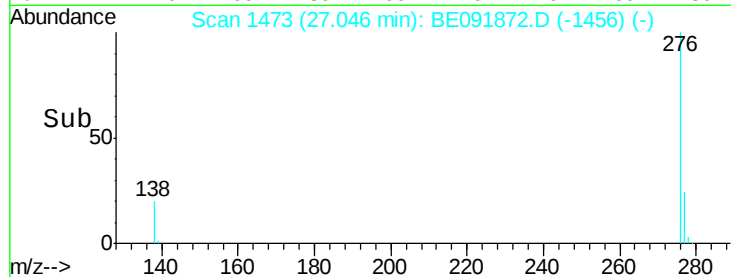
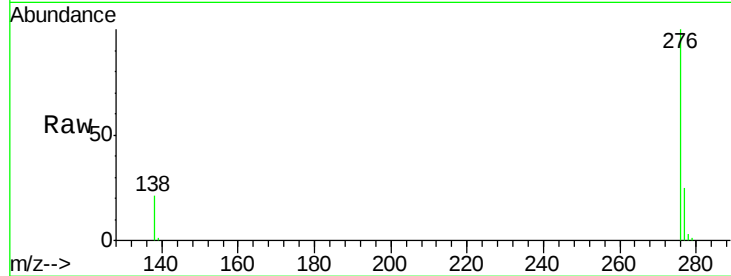
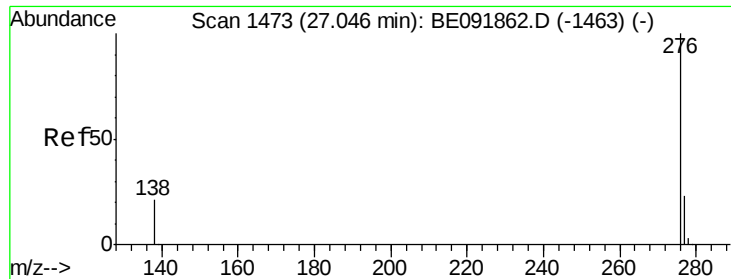
Delta R.T. -0.01 min

Lab File: BE091872.D

Acq: 25 May 2016 23:34

Tgt Ion:	278	Resp:	28922
Ion Ratio	Lower	Upper	
278	100		
139	18.9	12.6	18.8#
279	27.4	20.0	30.0





#45
 Benzo(a,h,i)perylene
 Concen: 2.15 ng
 RT: 27.05 min Scan# 1473
 Delta R.T. 0.00 min
 Lab File: BE091872.D
 Acq: 25 May 2016 23:34

Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517

Tot Ion:	276	Resp:	131511
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.5	29.3
138	20.8	17.7	26.5

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