

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
 Data File : BE092112.D
 Acq On : 2 Aug 2016 15:20
 Operator : UM/SJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Sohil
 8/3/2016 8:39:07 AM

Quant Time: Aug 02 16:54:15 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 13:43:25 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	10897	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	52180	5.00	ng	-0.01
10) Acenaphthene-d10	14.85	164	29861	5.00	ng	0.00
16) Phenanthrene-d10	17.56	188	62800	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	80391	5.00	ng	0.00
28) Perylene-d12	24.14	264	79139	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.70	112	14421	4.06	ng	0.00
5) Phenol-d6	7.34	99	20492	4.80	ng	-0.01
7) Nitrobenzene-d5	9.34	82	20402	4.56	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	5930m	2.74	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	46963	4.06	ng	0.00
24) Terphenyl-d14	20.19	244	62046	5.08	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.43	88	6788	4.31	ng	92
3) n-Nitrosodimethylamine	3.78	42	10419	5.21	ng	# 98
8) Naphthalene	11.03	128	57459	4.78	ng	95
9) 2-Methylnaphthalene	12.65	142	38082	4.73	ng	97
13) Acenaphthylene	14.54	152	270632	4.09	ng	98
14) Acenaphthene	14.90	154	40565	4.44	ng	# 93
15) Fluorene	15.88	166	51915	3.78	ng	99
17) Hexachlorobenzene	16.89	284	14852	7.08	ng	# 61
19) Phenanthrene	17.60	178	90399	5.36	ng	99
20) Anthracene	17.70	178	89382	7.14	ng	100
21) Fluoranthene	19.63	202	389372	7.91	ng	97
23) Pyrene	19.99	202	423420	4.63	ng	98
25) Benzo(a)anthracene	21.72	228	440138	20.25	ng	# 94
26) Chrysene	21.77	228	419334	21.92	ng	# 83
27) Indeno(1,2,3-cd)pyrene	26.63	276	478757	5.62	ng	100
29) Benzo(b)fluoranthene	23.40	252	106035m	4.83	ng	
30) Benzo(k)fluoranthene	23.45	252	107768	4.80	ng	95
31) Benzo(a)pyrene	24.02	252	103580	5.08	ng	95
32) Dibenzo(a,h)anthracene	26.67	278	98754	5.21	ng	# 92
33) Benzo(a,h,i)perylene	27.42	276	409661	5.14	ng	# 94

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

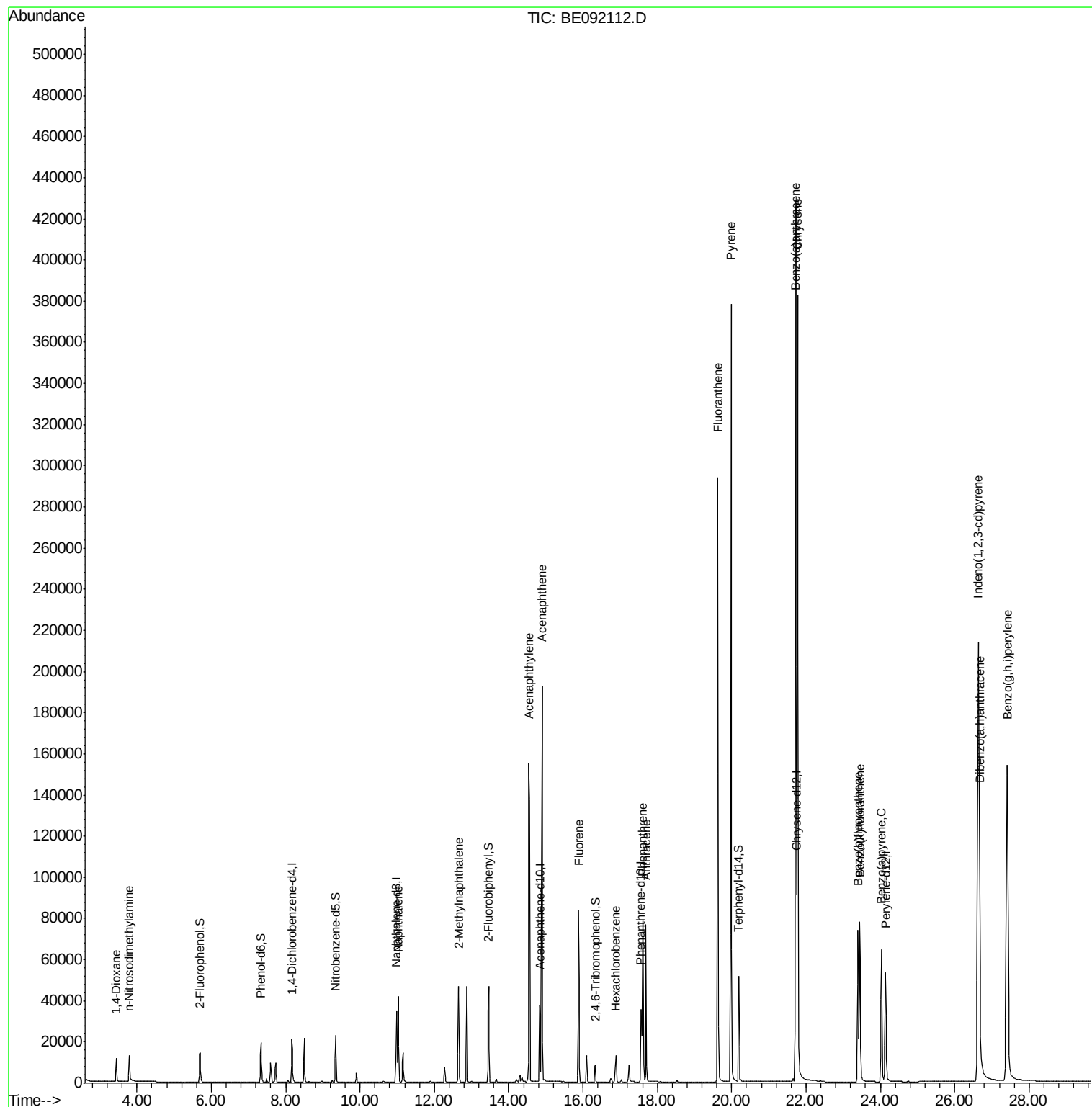
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
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Acq On : 2 Aug 2016 15:20
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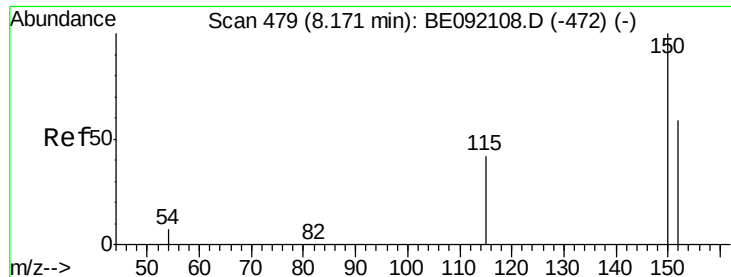
Instrument :
BNA_E
ClientSampleId :
SSTDIC005

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 02 13:43:25 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampled :

SSTDIC005

Tot Ion:152 Resp: 10897

Ion Ratio Lower Upper

152 100

150 170.1 106.0 159.0#

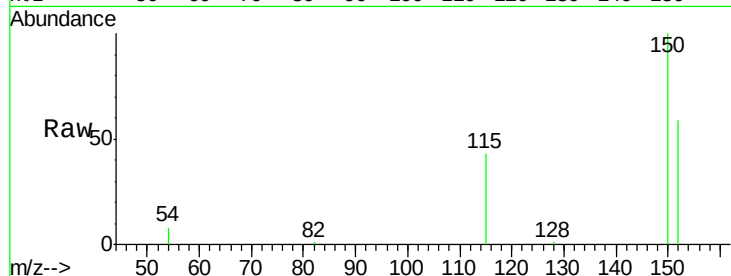
115 73.6 36.9 55.3#

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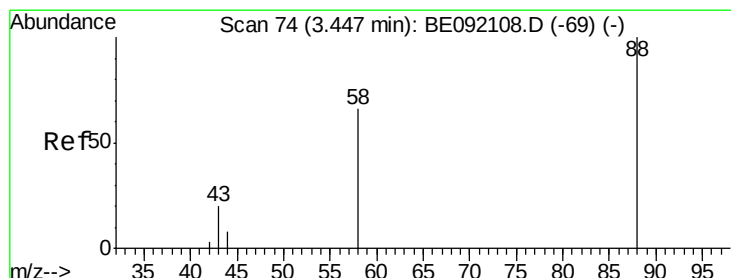
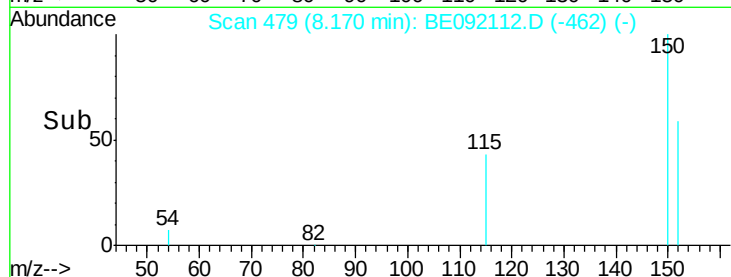
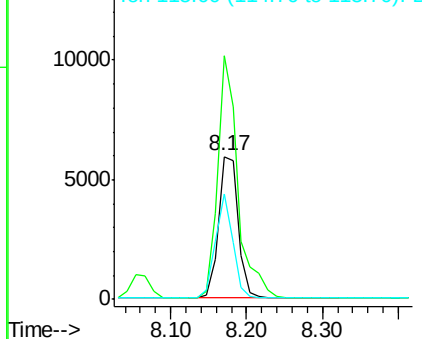
8/3/2016 8:39:07 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 4.31 ng

RT: 3.43 min Scan# 73

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

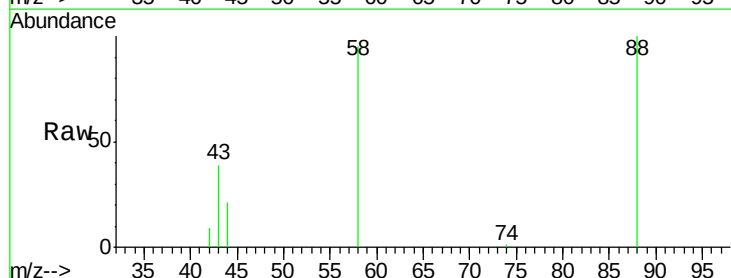
Tgt Ion: 88 Resp: 6788

Ion Ratio Lower Upper

88 100

58 85.3 62.1 93.1

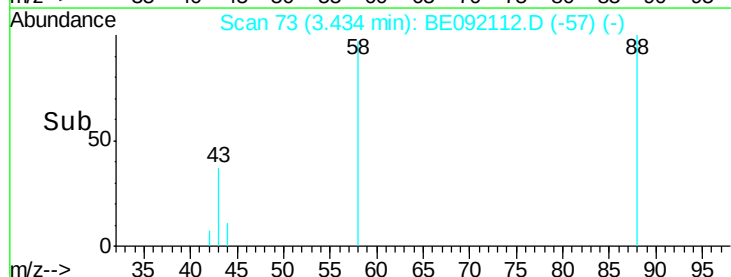
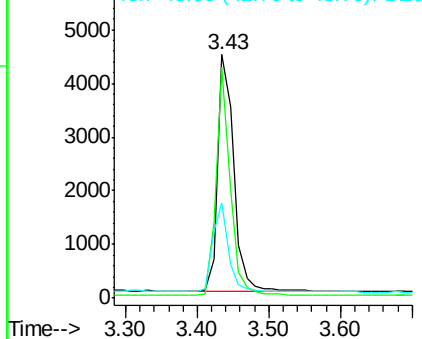
43 36.8 27.2 40.8

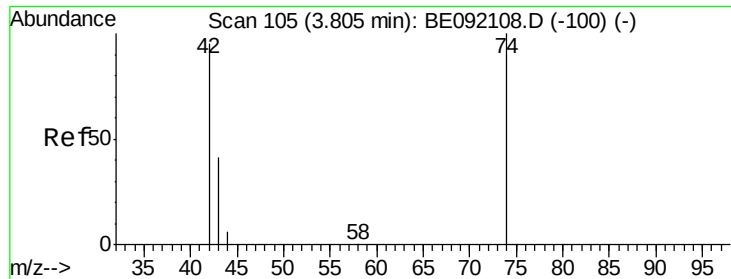


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 5.21 ng

RT: 3.78 min Scan# 103

Delta R.T. -0.02 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

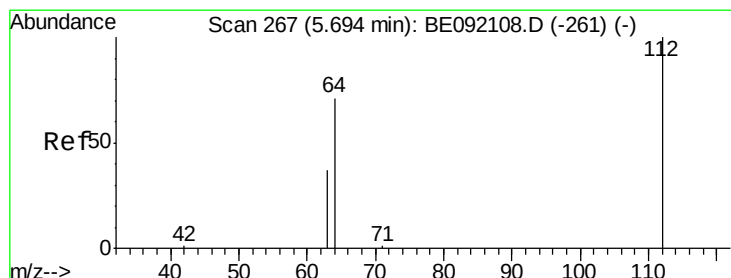
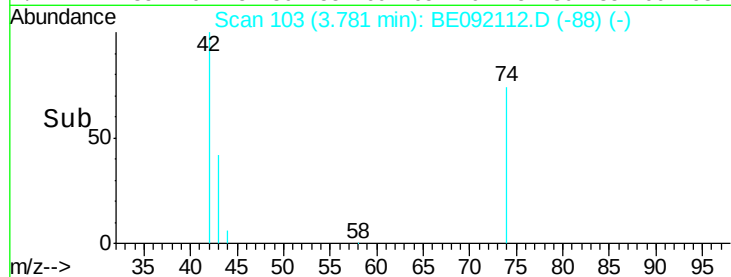
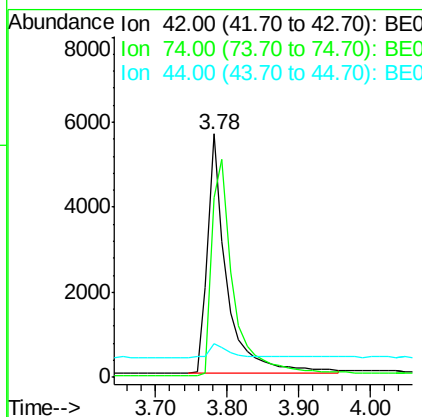
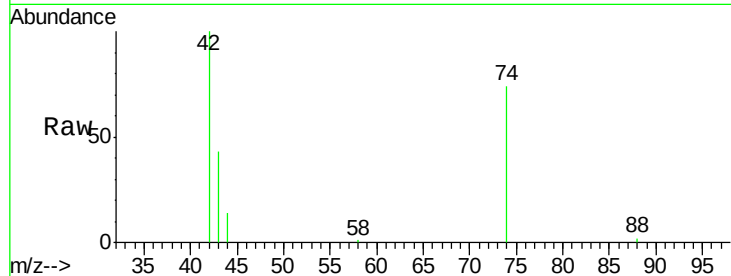
ClientSampleId :

SSTDIC005

Tot Ion:	42	Resp:	10419
Ion Ratio	Lower	Upper	
42	100		
74	103.9	82.8	124.2
44	6.0	9.0	13.4#

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#4

2-Fluorophenol

Concen: 4.06 ng

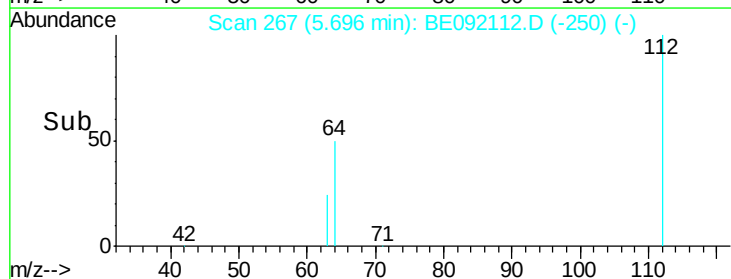
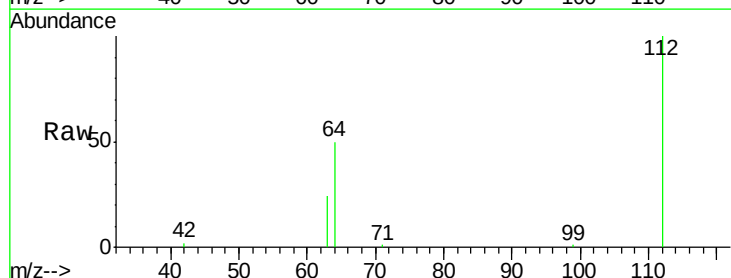
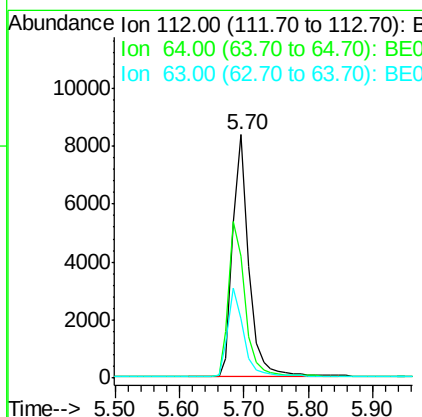
RT: 5.70 min Scan# 267

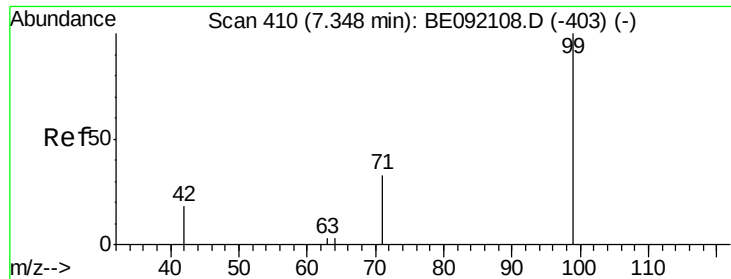
Delta R.T. 0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion:	112	Resp:	14421
Ion Ratio	Lower	Upper	
112	100		
64	66.5	55.9	83.9
63	36.0	31.1	46.7





#5

Phenol-d6

Concen: 4.80 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

Tot Ion: 99 Resp: 20492

Ion Ratio Lower Upper

99 100

42 26.0 22.4 33.6

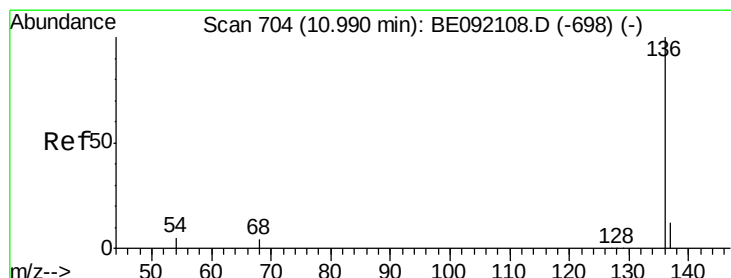
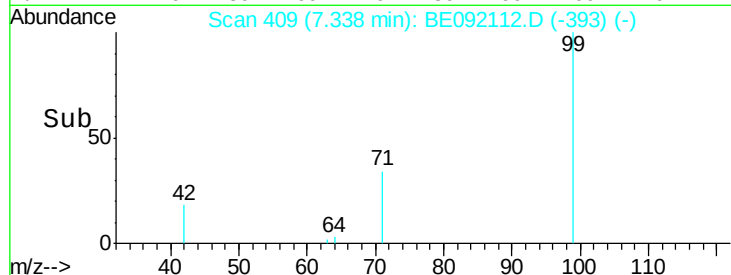
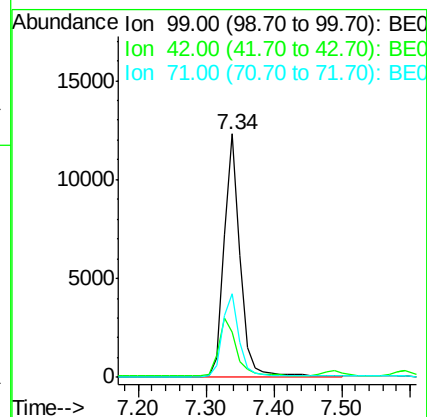
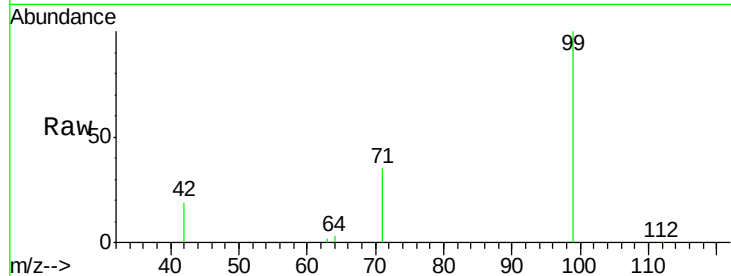
71 35.4 28.9 43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion: 136 Resp: 52180

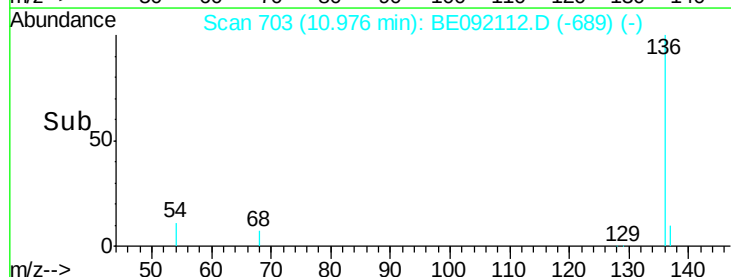
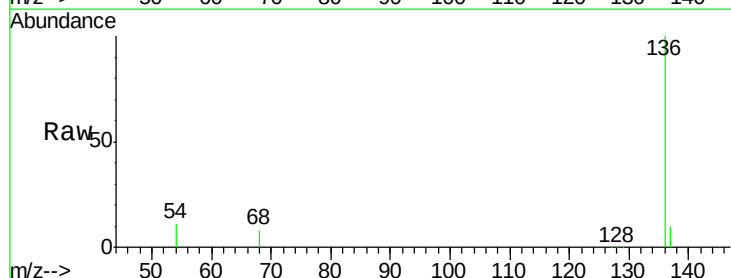
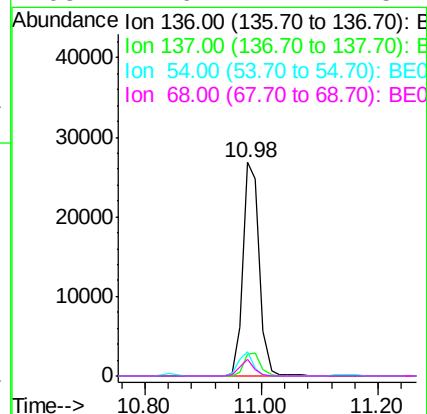
Ion Ratio Lower Upper

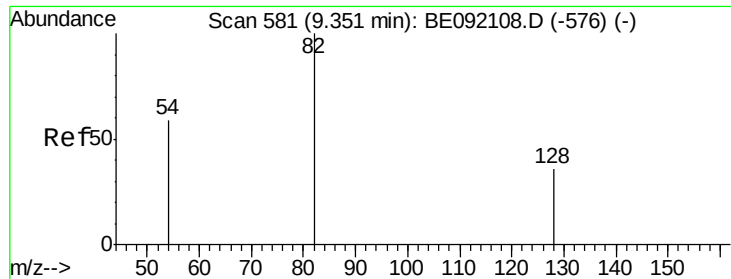
136 100

137 10.2 9.1 13.7

54 11.1 2.7 4.1#

68 7.6 2.2 3.4#





#7

Nitrobenzene-d5

Concen: 4.56 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

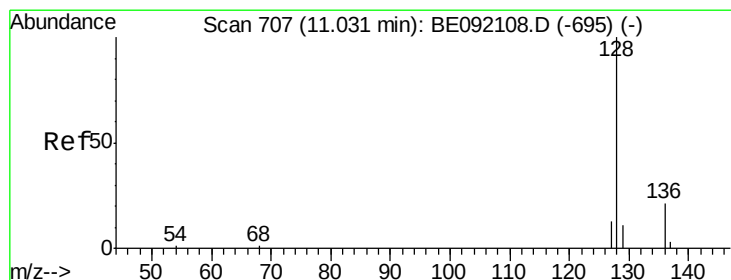
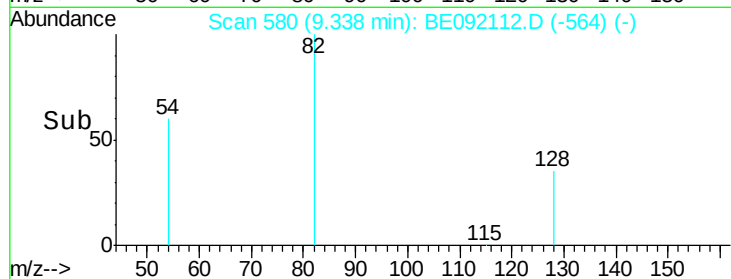
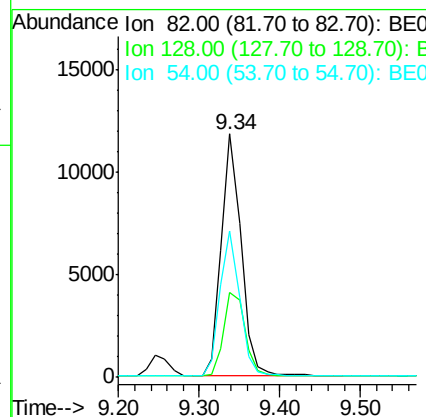
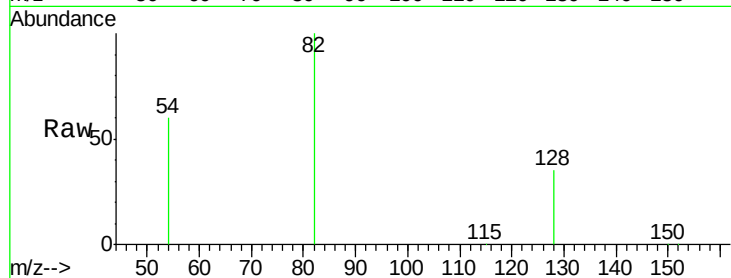
ClientSampleId :

SSTDICC005

Tot Ion:	82	Resp:	20402
Ion	Ratio	Lower	Upper
82	100		
128	35.0	33.0	49.4
54	60.1	42.6	63.8

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#8

Naphthalene

Concen: 4.78 ng

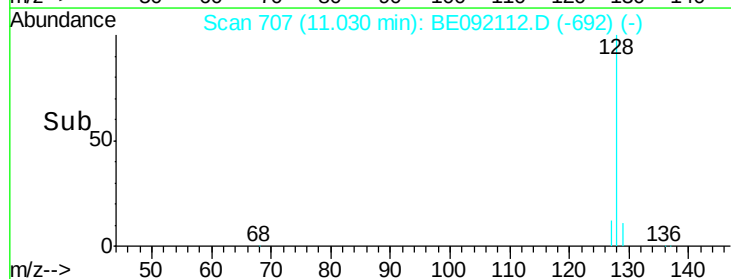
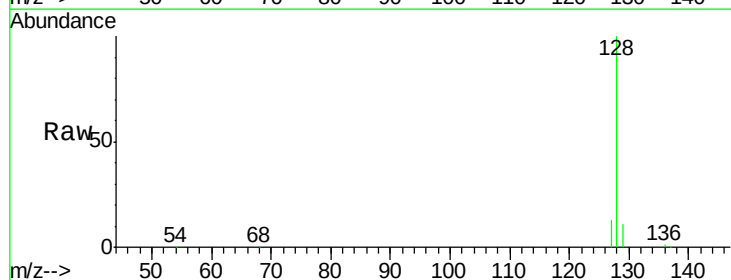
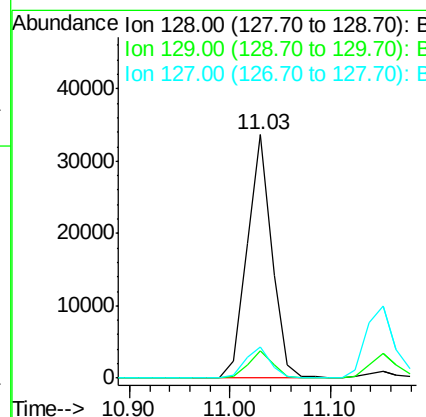
RT: 11.03 min Scan# 707

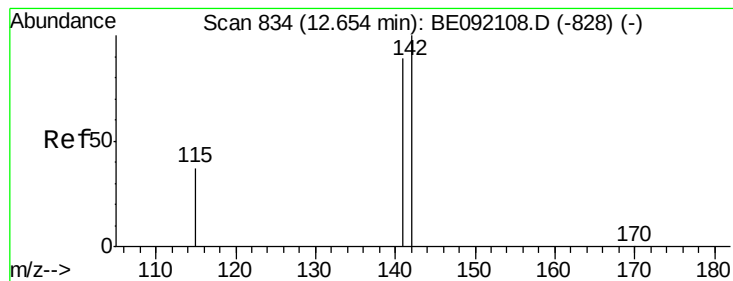
Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion:	128	Resp:	57459
Ion	Ratio	Lower	Upper
128	100		
129	11.2	11.1	16.7
127	12.6	11.3	16.9





#9

2-Methylnaphthalene

Concen: 4.73 ng

RT: 12.65 min Scan# 834

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

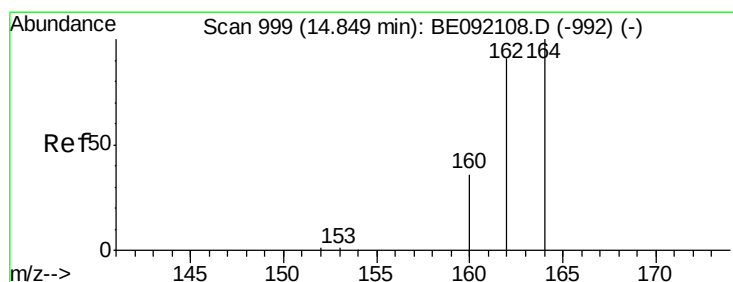
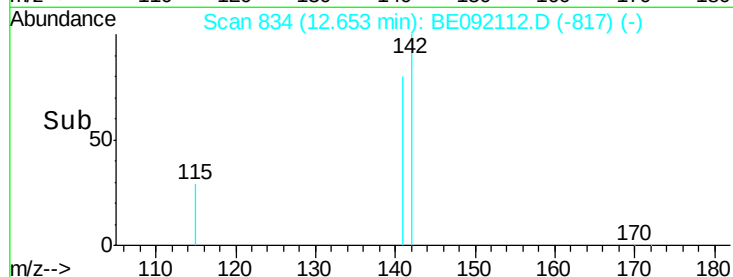
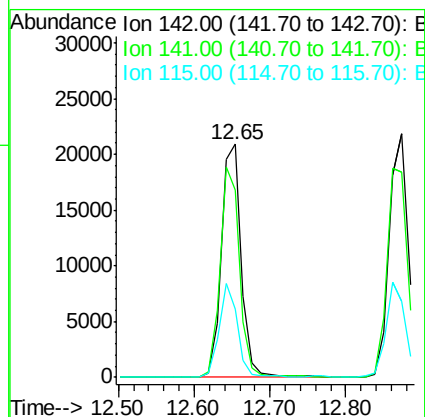
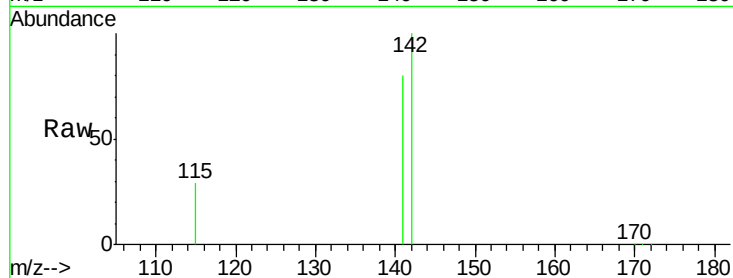
ClientSampleId :

SSTDIC005

Tot Ion:	142	Resp:	38082
Ion Ratio	Lower	Upper	
142	100		
141	80.4	65.1	97.7
115	29.4	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

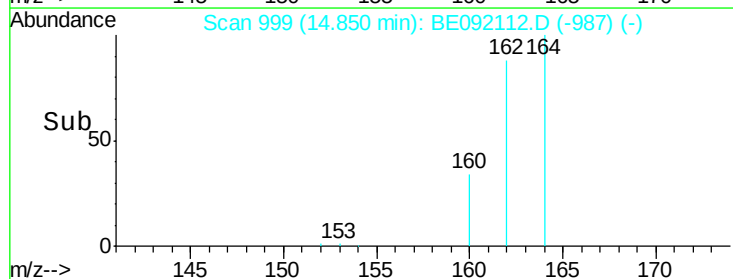
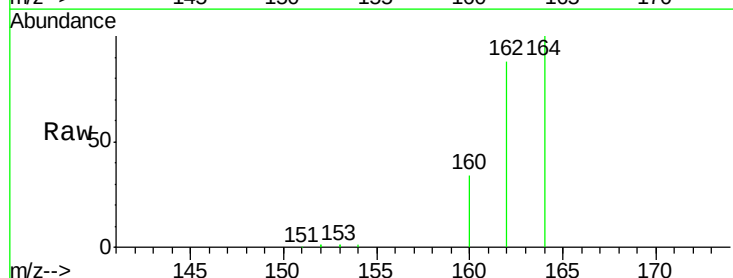
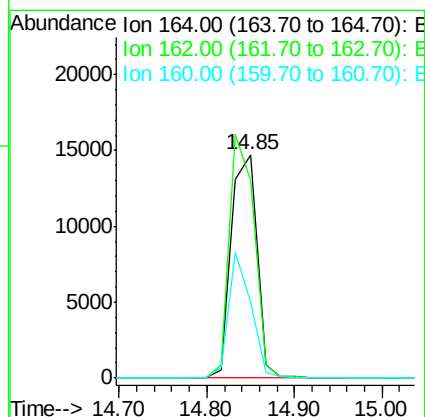
RT: 14.85 min Scan# 999

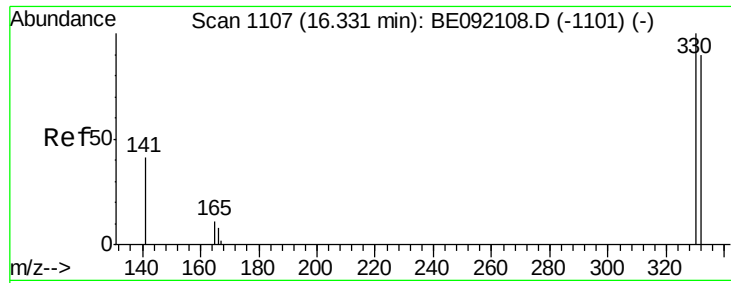
Delta R.T. 0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion:	164	Resp:	29861
Ion Ratio	Lower	Upper	
164	100		
162	88.3	69.5	104.3
160	34.2	27.6	41.4





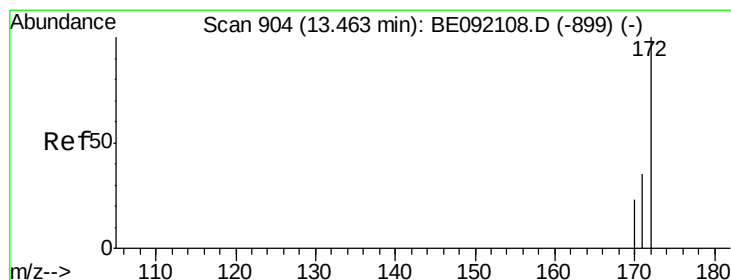
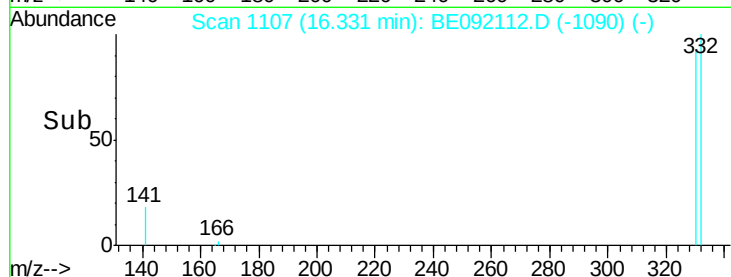
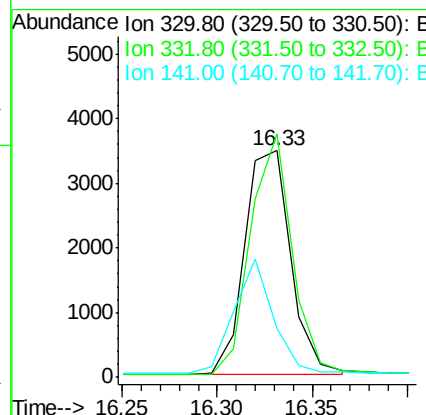
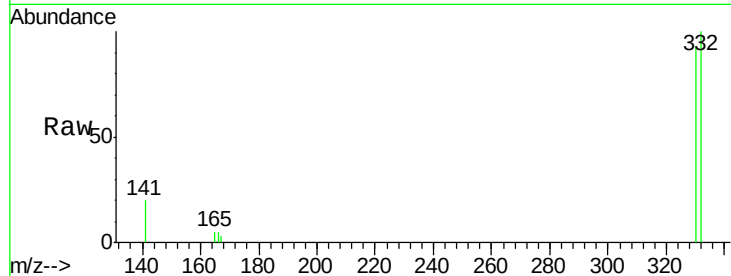
#11
 2,4,6-Tribromophenol
 Concen: 2.74 ng/ml
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.2	74.2	111.4
141	44.3	139.8	209.8#

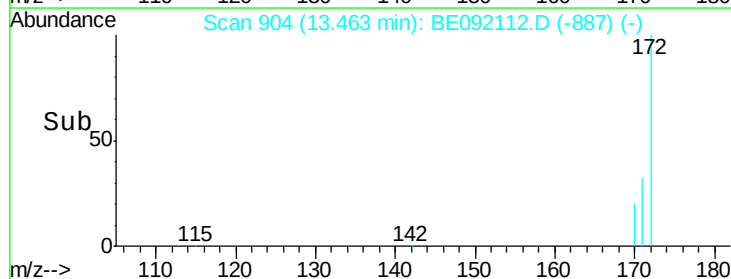
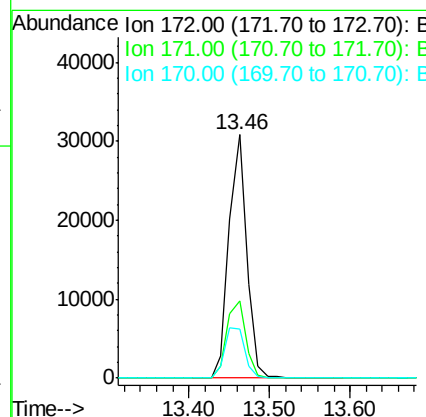
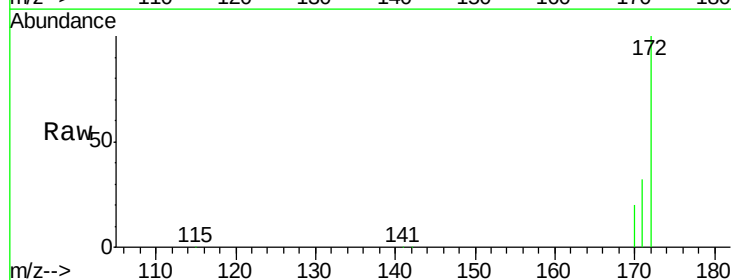
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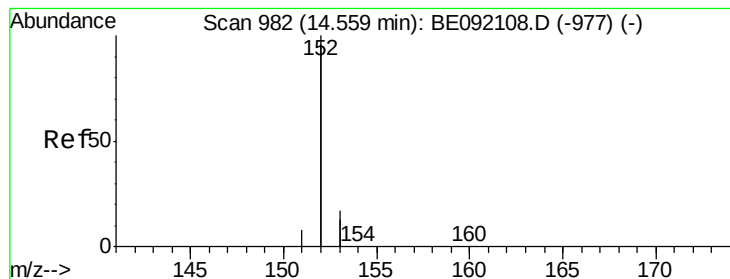
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#12
 2-Fluorobiphenyl
 Concen: 4.06 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.9	30.3	45.5
170	20.0	21.6	32.4#





#13

Acenaphthylene

Concen: 4.09 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

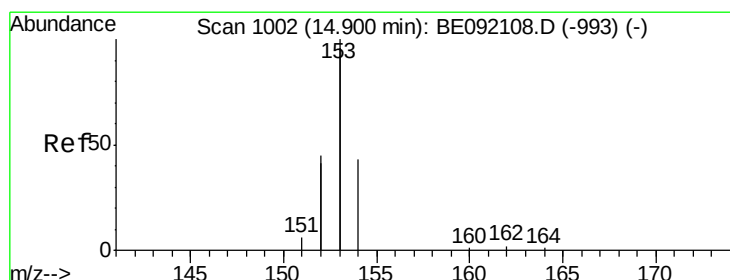
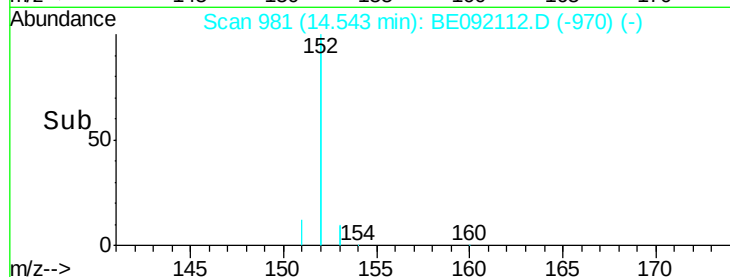
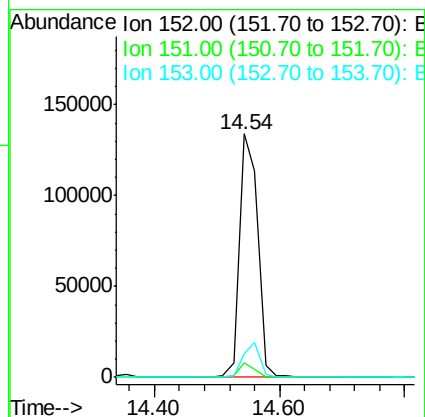
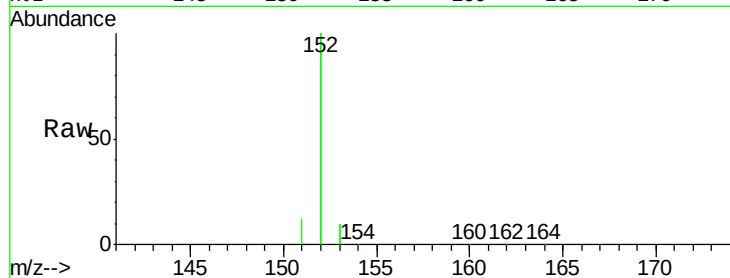
ClientSampleId :

SSTDIC005

Tot Ion:	152	Resp:	270632
Ion Ratio	Lower	Upper	
152	100		
151	5.0	4.0	6.0
153	13.0	9.6	14.4

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#14

Acenaphthene

Concen: 4.44 ng

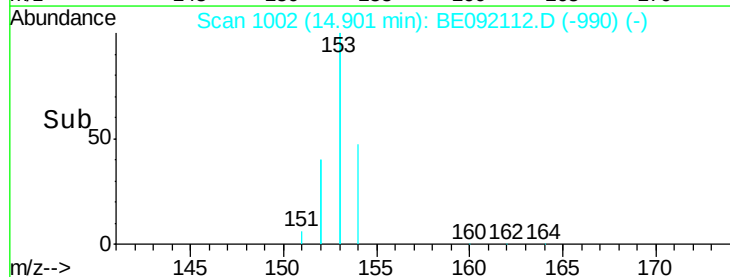
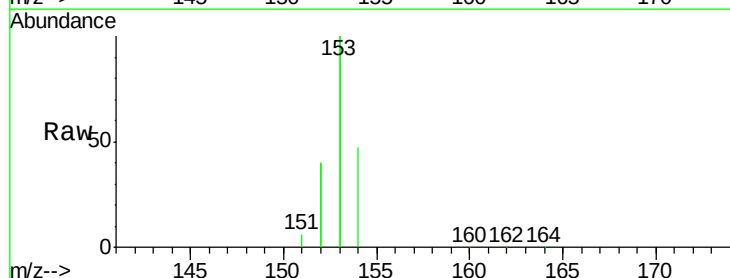
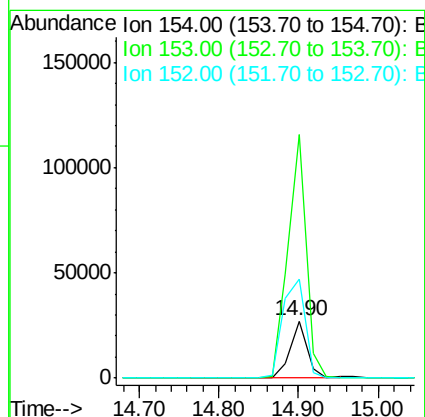
RT: 14.90 min Scan# 1002

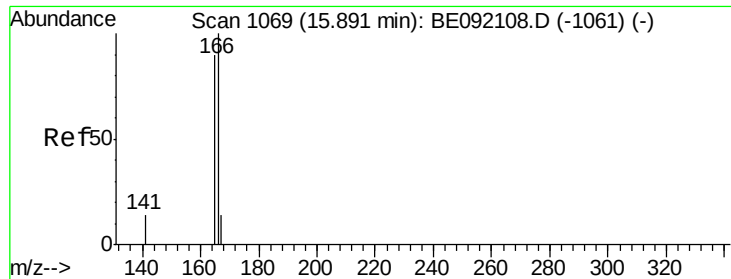
Delta R.T. 0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion:	154	Resp:	40565
Ion Ratio	Lower	Upper	
154	100		
153	449.4	345.1	517.7
152	224.6	0.0	0.0#





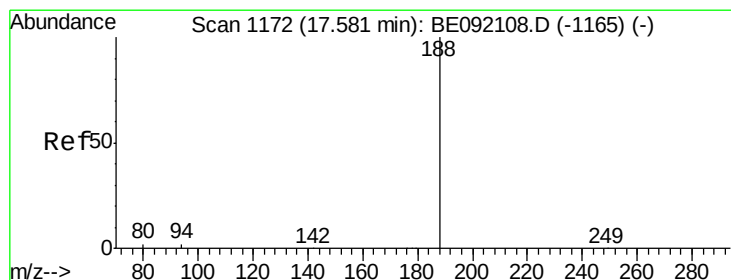
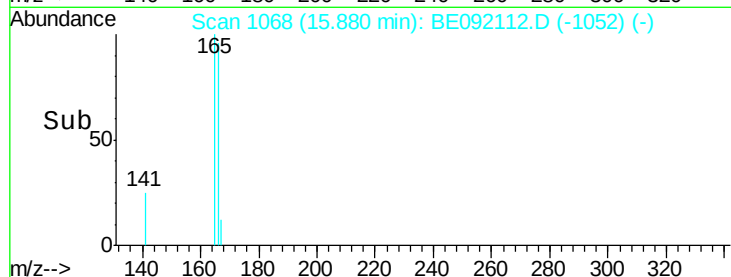
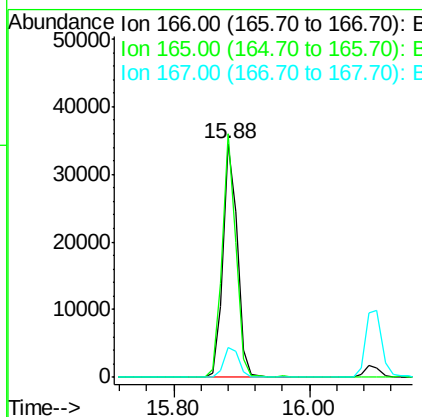
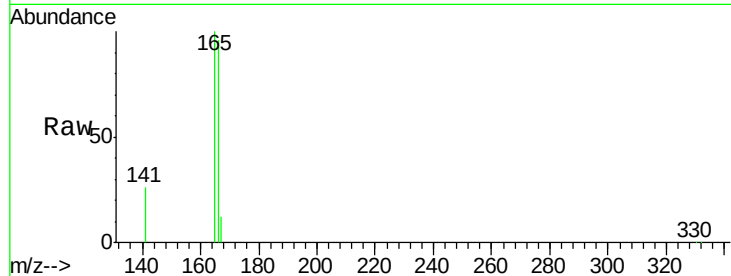
#15
Fluorene
Concen: 3.78 ng
RT: 15.88 min Scan# 1068
Delta R.T. -0.01 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Instrument :
BNA_E
ClientSampleId :
SSTDIC005

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.6	118.0
167	13.5	11.1	16.7

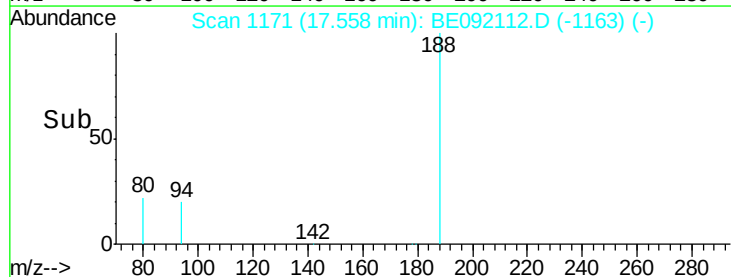
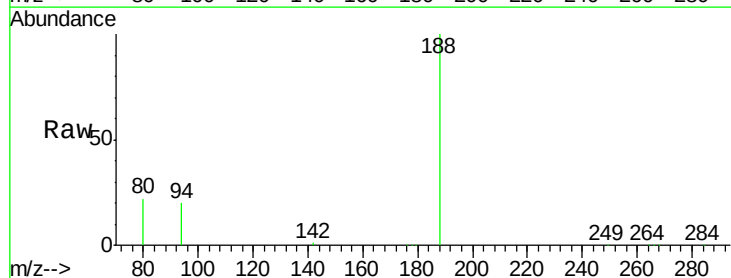
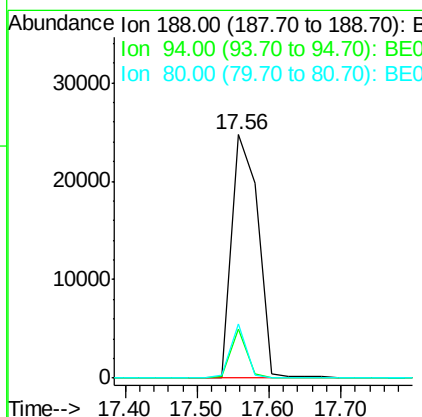
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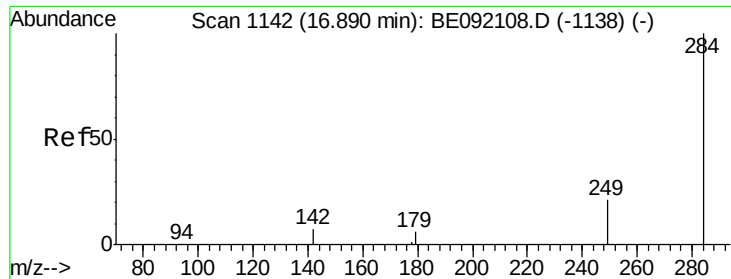
Sohil
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#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1171
Delta R.T. -0.02 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Tgt Ion	Ratio	Lower	Upper
188	100		
94	20.0	3.9	5.9#
80	22.2	3.4	5.0#





#17

Hexachlorobenzene

Concen: 7.08 ng

RT: 16.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

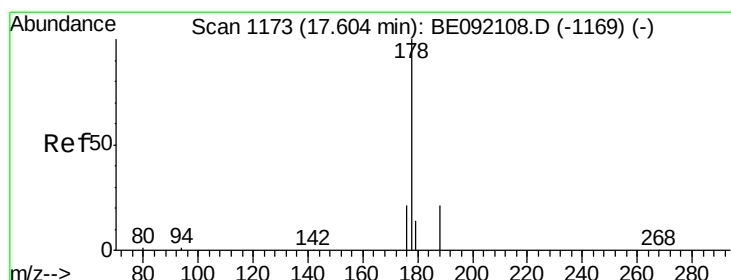
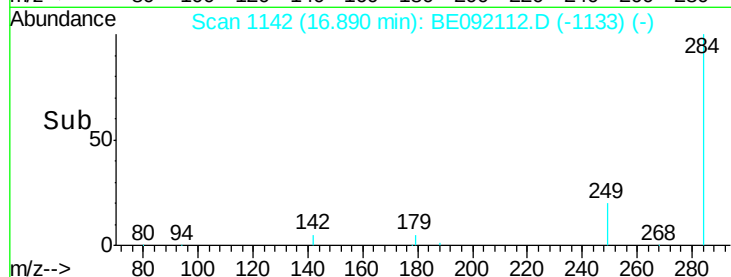
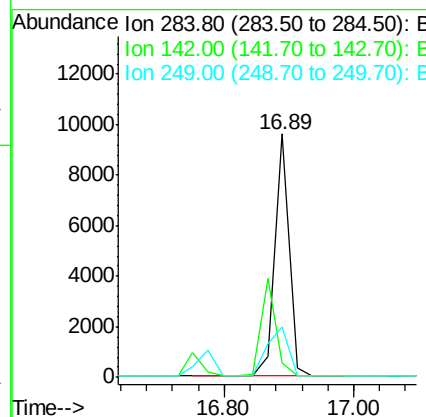
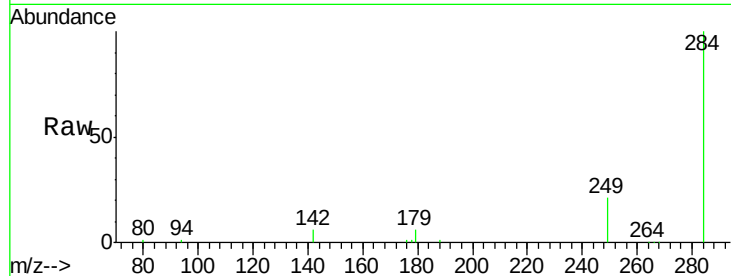
ClientSampleId :

SSTDICC005

Tot Ion	Ratio	Resp	Lower	Upper
284	100	14852		
142	0.0	33.3	49.9#	
249	30.1	25.4	38.0	

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#19

Phenanthrene

Concen: 5.36 ng

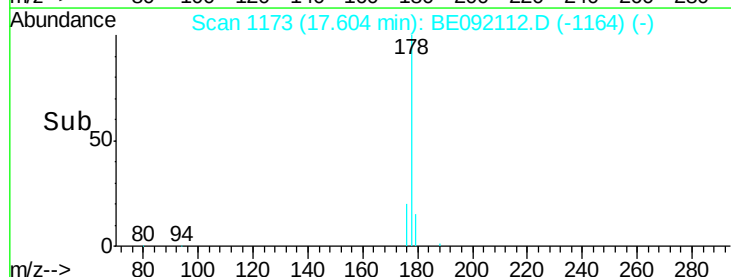
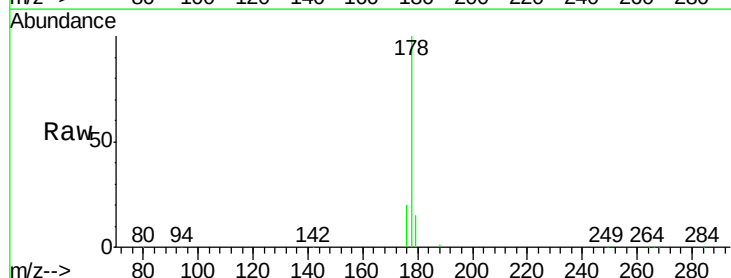
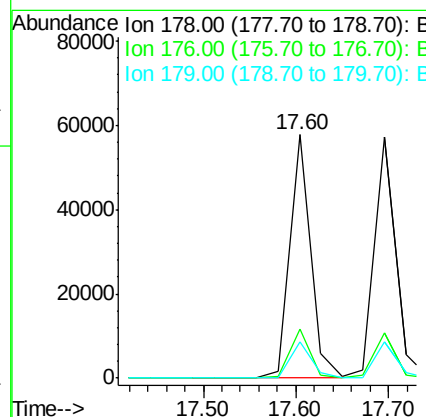
RT: 17.60 min Scan# 1173

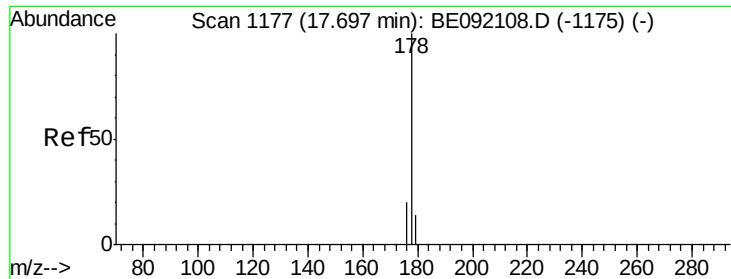
Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	90399		
176	19.8	15.4	23.0	
179	15.2	12.7	19.1	





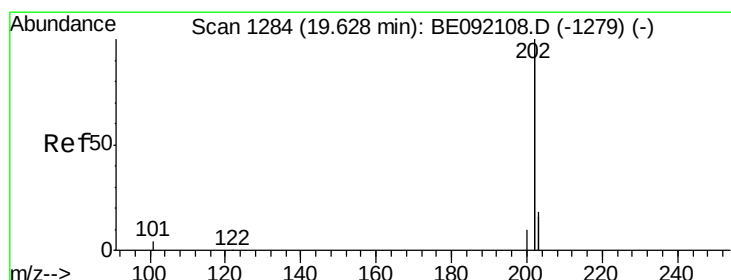
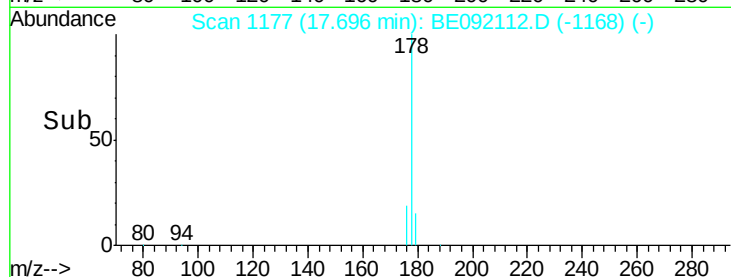
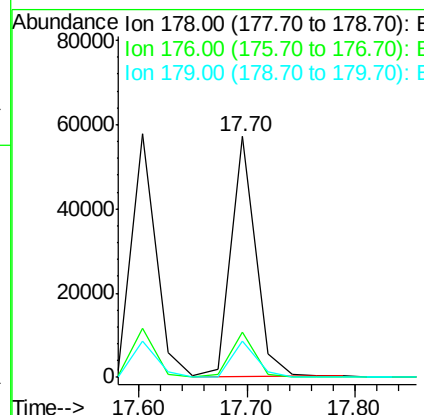
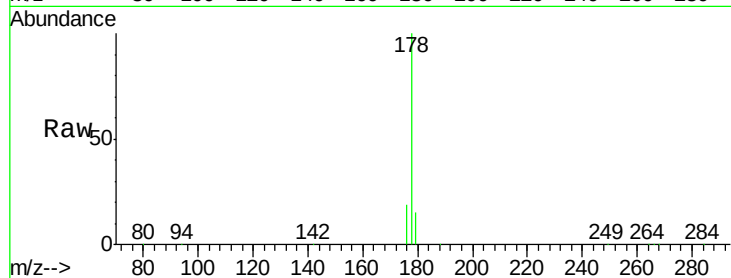
#20
 Anthracene
 Concen: 7.14 ng
 RT: 17.70 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.2	22.8
179	15.3	12.2	18.4

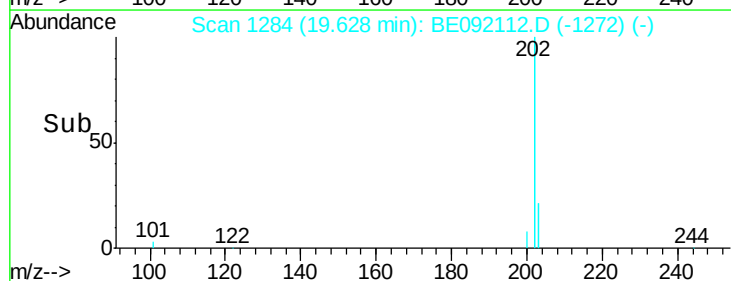
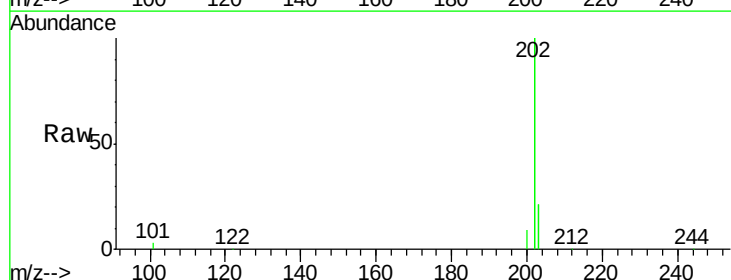
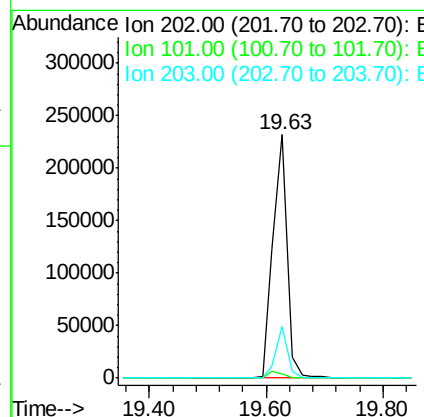
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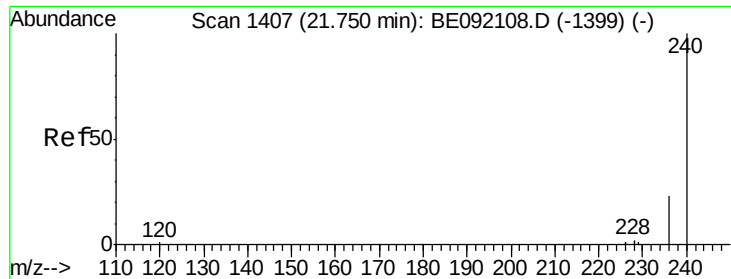
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#21
 Fluoranthene
 Concen: 7.91 ng
 RT: 19.63 min Scan# 1284
 Delta R.T. -0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Tgt Ion	Ratio	Lower	Upper
202	100		
101	2.9	2.2	3.2
203	17.9	13.0	19.4





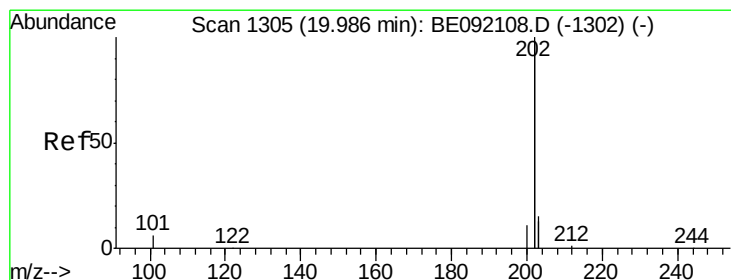
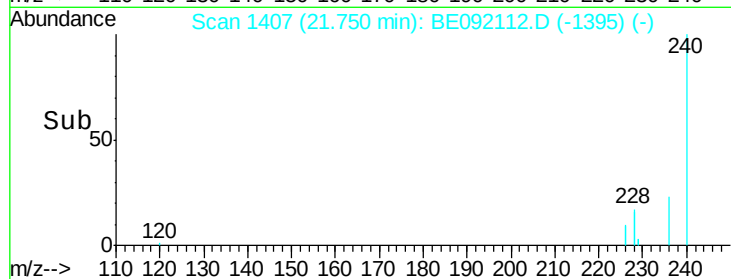
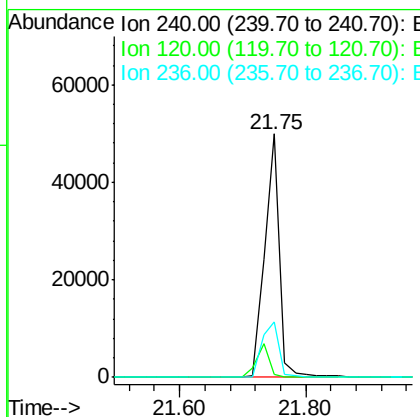
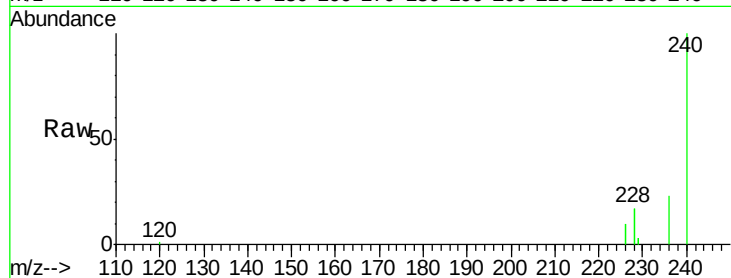
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.75 min Scan# 1407
Delta R.T. -0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Instrument :
BNA_E
ClientSampleId :
SSTDIC005

Tot Ion	Ratio	Lower	Upper
240	100		
120	1.1	0.6	1.0
236	22.8	18.2	27.4

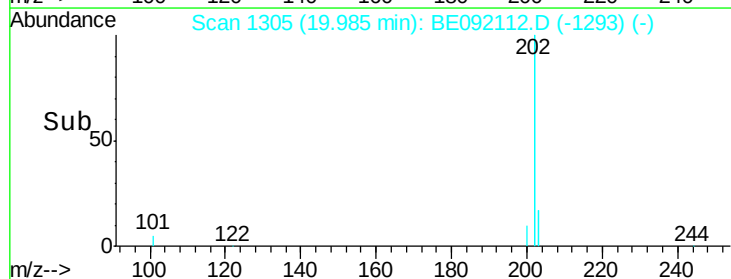
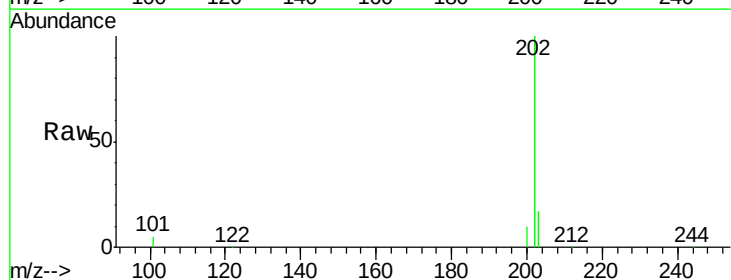
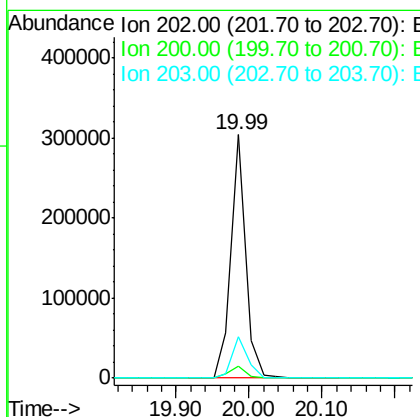
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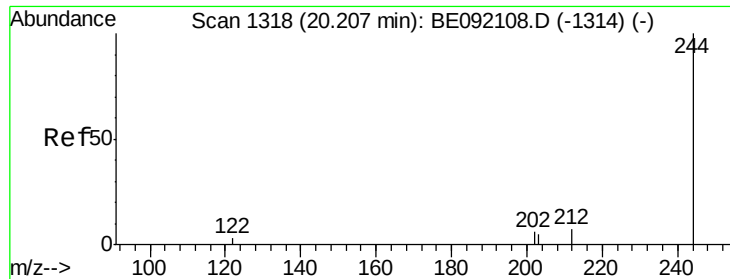
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#23
Pyrene
Concen: 4.63 ng
RT: 19.99 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.4	4.4	6.6
203	17.6	13.4	20.0





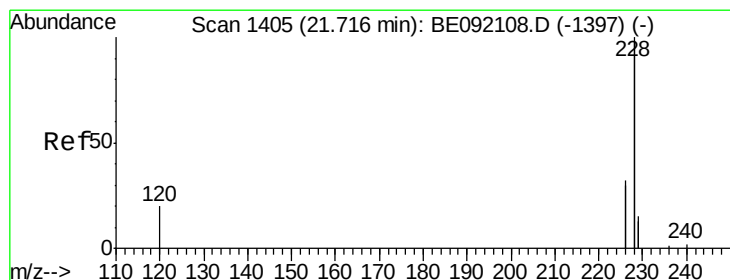
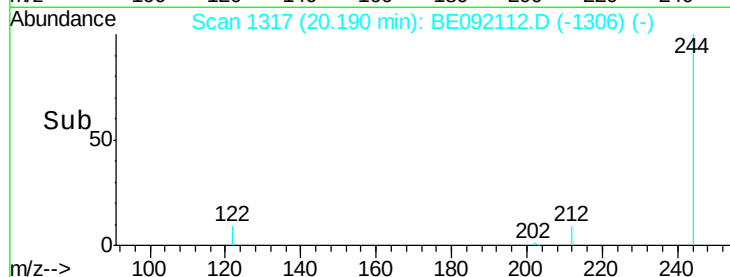
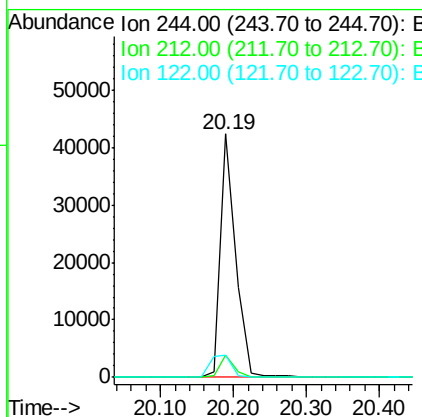
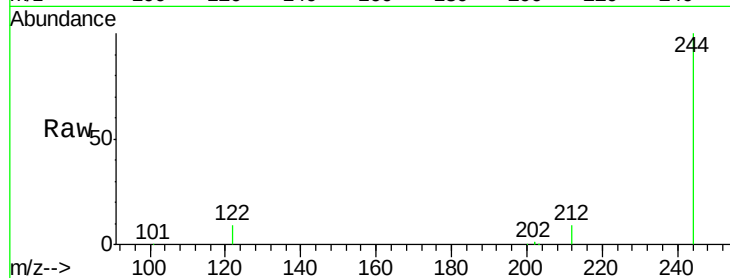
#24
 Terphenyl-d14
 Concen: 5.08 ng
 RT: 20.19 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.4	9.1	13.7
122	8.9	11.0	16.4#

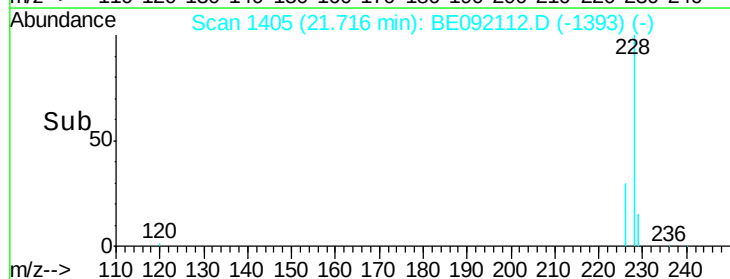
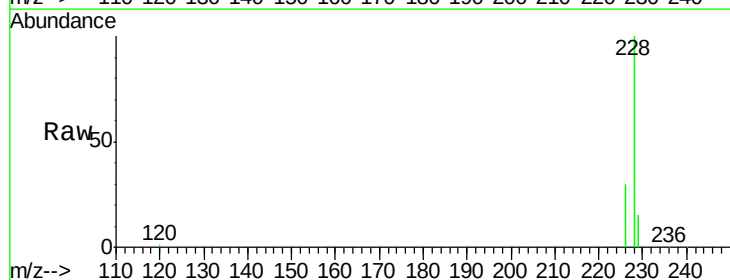
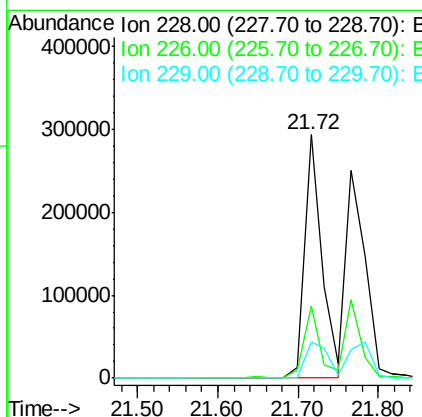
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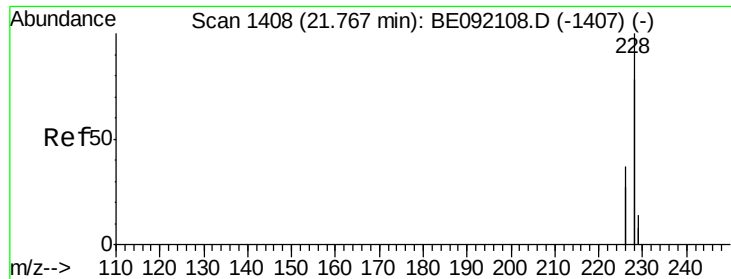
Sohil
 8/3/2016 8:39:07 AM



#25
 Benzo(a)anthracene
 Concen: 20.25 ng
 RT: 21.72 min Scan# 1405
 Delta R.T. -0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.1	33.1
229	15.1	15.1	22.7#





#26

Chrysene

Concen: 21.92 ng

RT: 21.77 min Scan# 1408

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

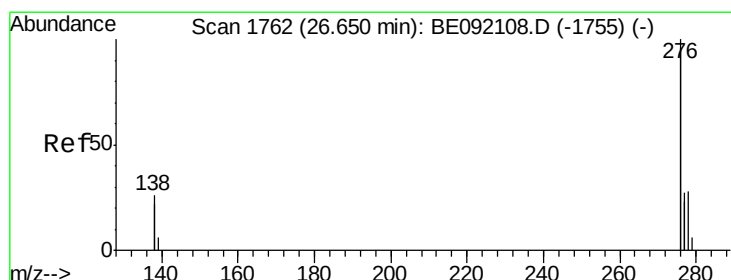
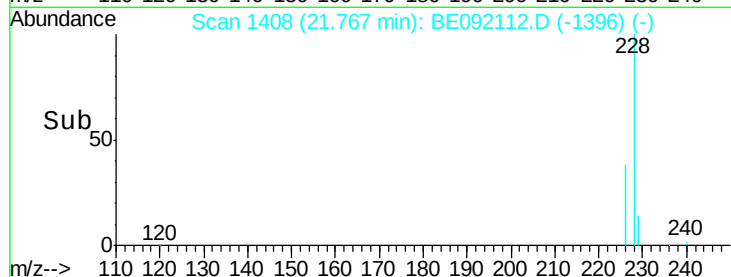
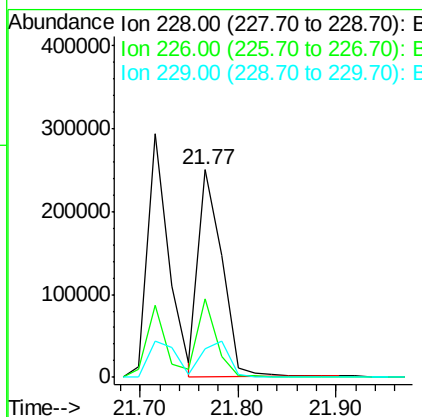
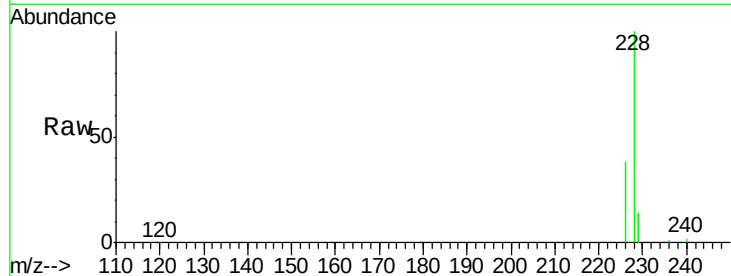
ClientSampleId :

SSTDICC005

Tot Ion:	228	Resp:	419334
Ion Ratio	Lower	Upper	
228	100		
226	37.6	22.3	33.5#
229	14.0	16.9	25.3#

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#27

Indeno(1,2,3-cd)pyrene

Concen: 5.62 ng

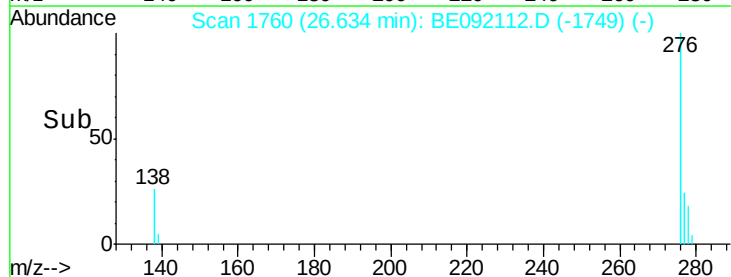
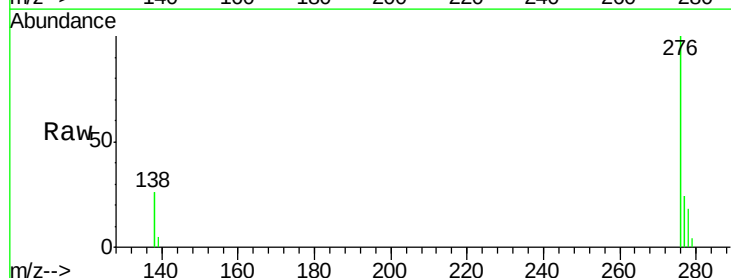
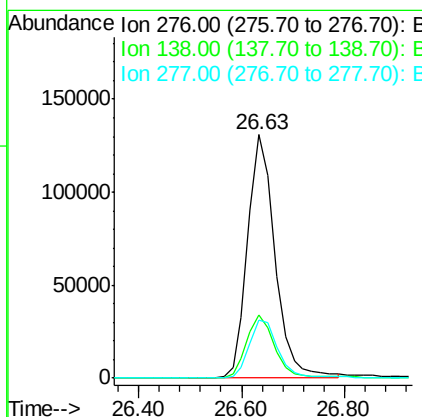
RT: 26.63 min Scan# 1760

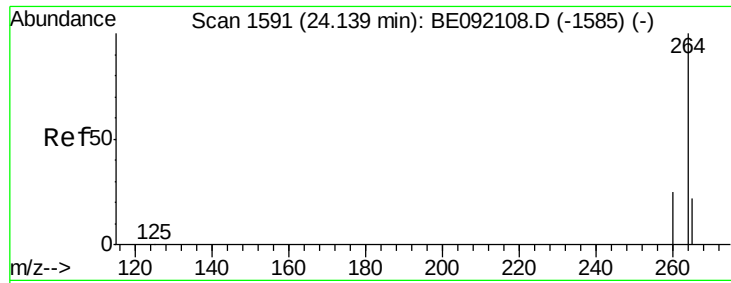
Delta R.T. -0.02 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion:	276	Resp:	478757
Ion Ratio	Lower	Upper	
276	100		
138	26.6	21.2	31.8
277	24.9	19.8	29.8





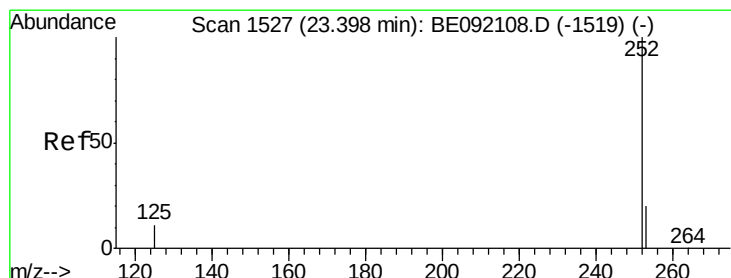
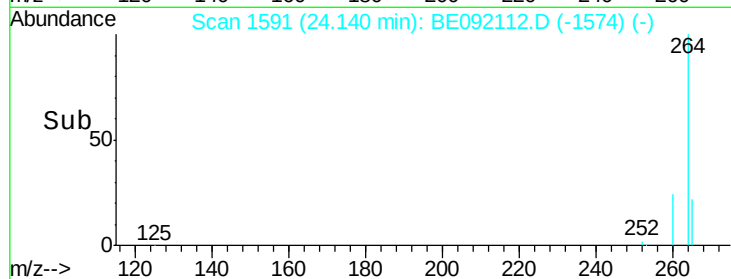
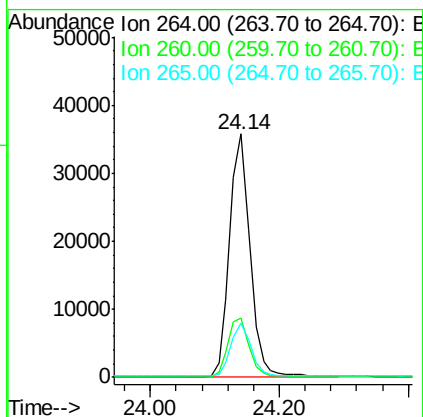
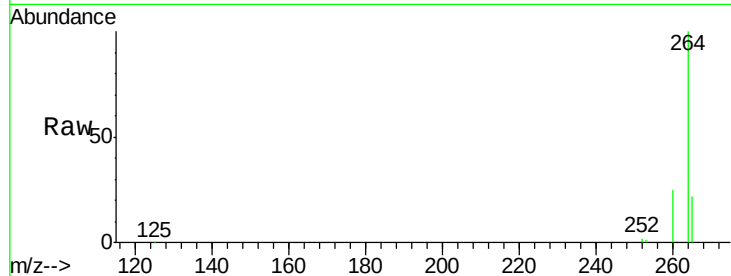
#28
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC005

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	20.8	31.2
265	22.3	16.6	25.0

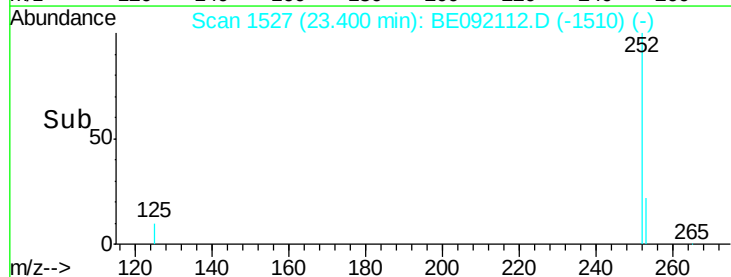
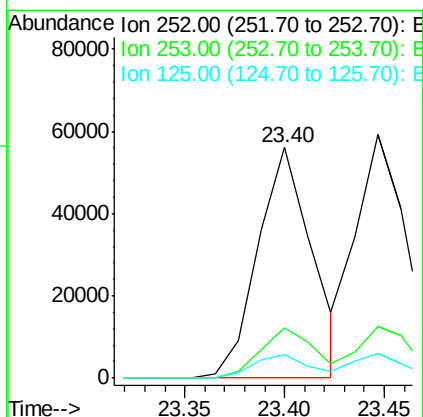
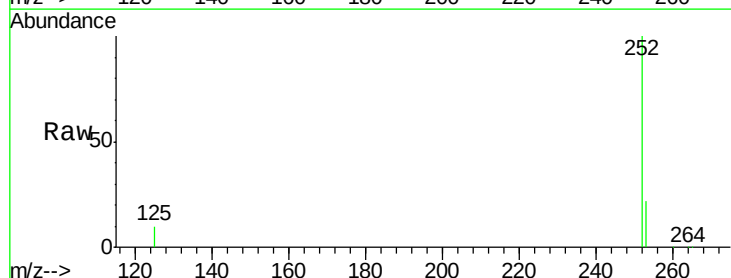
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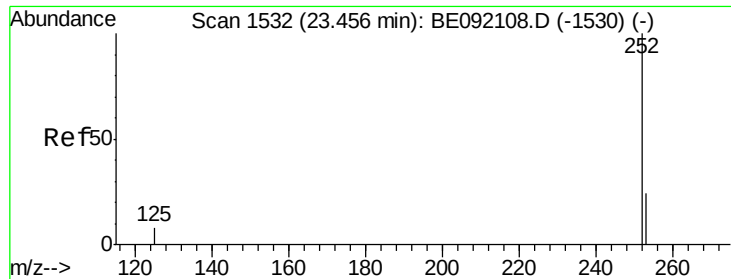
Sohil
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#29
 Benzo(b)fluoranthene
 Concen: 4.83 ng m
 RT: 23.40 min Scan# 1527
 Delta R.T. 0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	10.1	10.2	15.2#





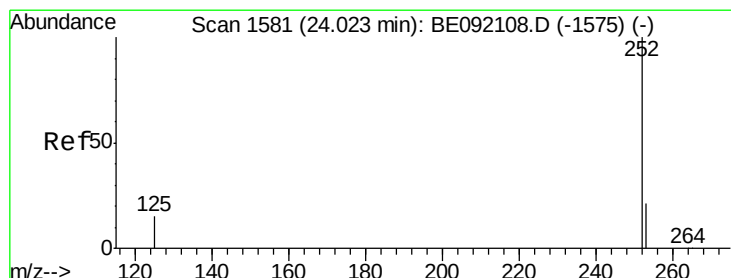
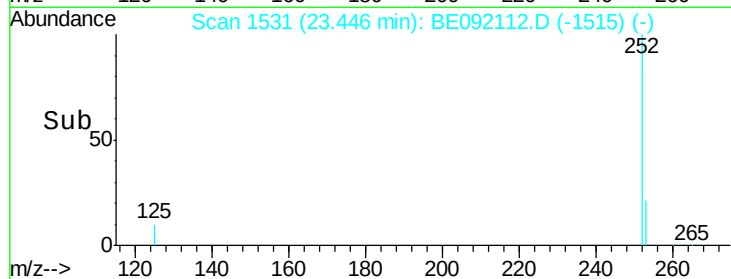
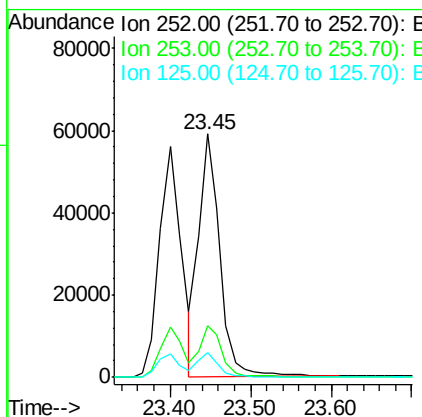
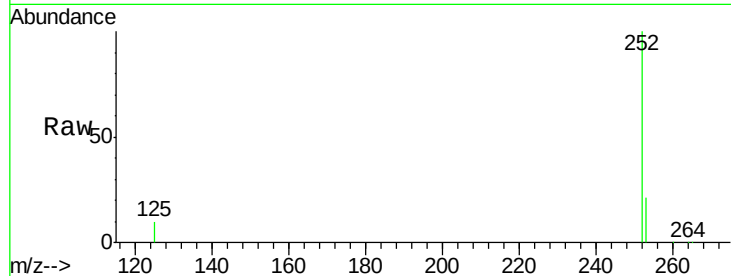
#30
Benzo(k)fluoranthene
Concen: 4.80 ng
RT: 23.45 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Instrument :
BNA_E
ClientSampleId :
SSTDIC005

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	19.4	29.0
125	10.3	8.9	13.3

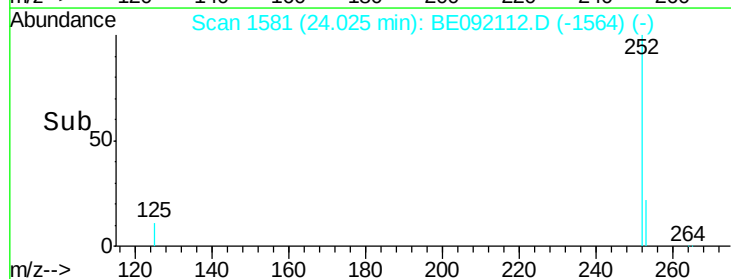
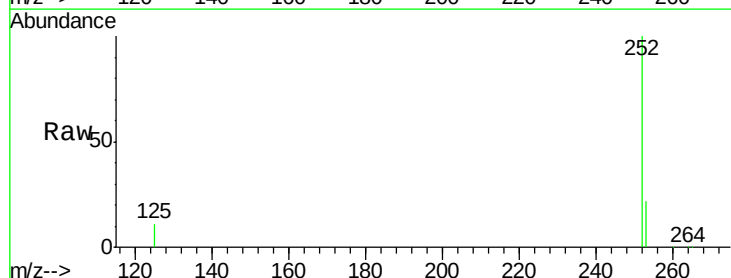
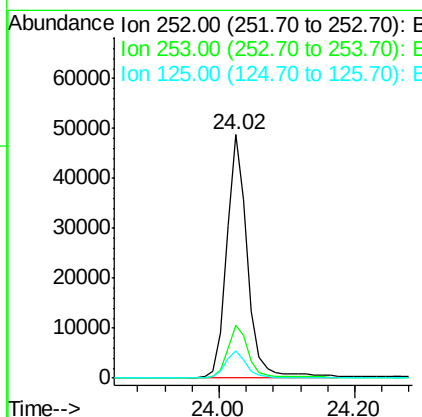
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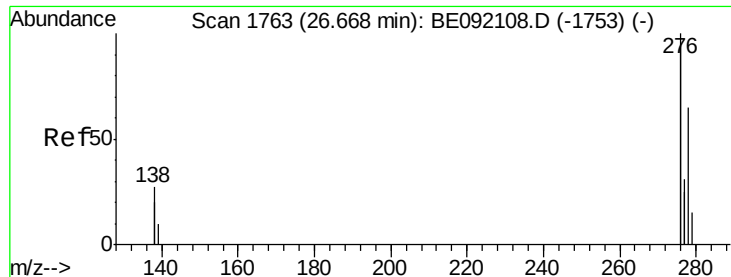
Sohil
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#31
Benzo(a)pyrene
Concen: 5.08 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.8	29.8
125	11.3	10.4	15.6





#32

Dibenzo(a,h)anthracene

Concen: 5.21 ng

RT: 26.67 min Scan# 1762

Delta R.T. 0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

SSTDIC005

Tot Ion:278 Resp: 98754

Ion Ratio Lower Upper

278 100

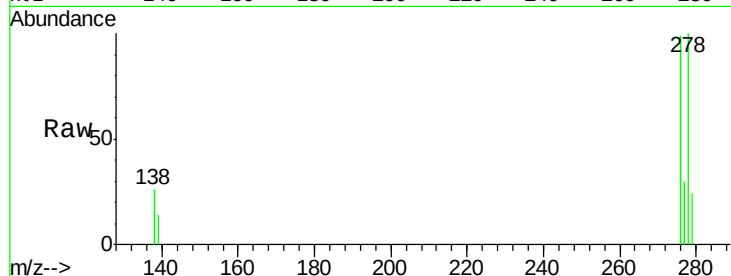
139 13.8 16.7 25.1#

279 24.2 20.3 30.5

Manual Integrations
APPROVED

Sohil

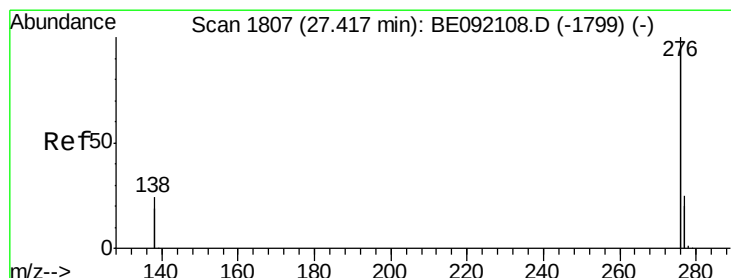
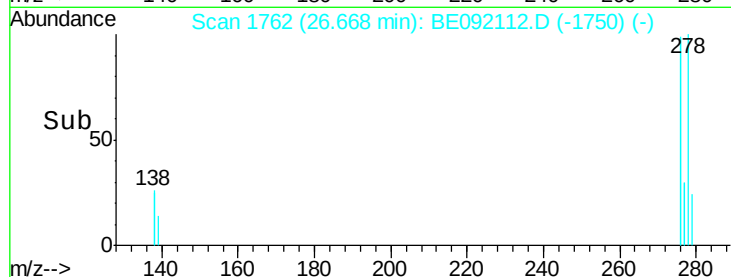
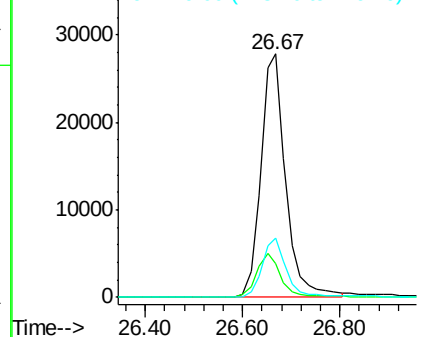
8/3/2016 8:39:07 AM



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Benzo(g,h,i)perylene

Concen: 5.14 ng

RT: 27.42 min Scan# 1806

Delta R.T. 0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion:276 Resp: 409661

Ion Ratio Lower Upper

276 100

277 24.0 19.5 29.3

138 20.7 20.8 31.2#

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

