

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE092216\
 Data File : BE092395.D
 Acq On : 22 Sep 2016 14:47
 Operator : UM/SJ
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

Manual Integrations
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Quant Time: Sep 22 17:05:08 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 22 16:57:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	8745	5.00	ng	0.00
7) Naphthalene-d8	10.95	136	43647	5.00	ng	0.00
12) Acenaphthene-d10	14.82	164	32709	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	67264	5.00	ng	0.00
24) Chrysene-d12	21.75	240	92246	5.00	ng	0.00
31) Perylene-d12	24.12	264	79997	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.68	112	3086	1.48	ng	0.00
5) Phenol-d6	7.34	99	4576	1.65	ng	-0.02
8) Nitrobenzene-d5	9.34	82	4730	1.51	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	1653	1.63	ng	-0.02
14) 2-Fluorobiphenyl	13.43	172	13400	1.34	ng	-0.01
26) Terphenyl-d14	20.19	244	19049	1.40	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.41	88	1644	1.33	ng	94
3) n-Nitrosodimethylamine	3.77	42	1939	1.68	ng	# 97
6) bis(2-Chloroethyl)ether	7.59	93	3713	1.65	ng	89
9) Naphthalene	10.99	128	14863	1.52	ng	# 96
10) Hexachlorobutadiene	11.28	225	2346	1.54	ng	99
11) 2-Methylnaphthalene	12.62	142	10372	1.62	ng	98
15) Acenaphthylene	14.53	152	78721	1.40	ng	100
16) Acenaphthene	14.88	154	11913	1.31	ng	95
17) Fluorene	15.87	166	15743	1.38	ng	99
19) Hexachlorobenzene	16.89	284	4805	1.49	ng	# 67
20) Pentachlorophenol	17.26	266	1388	1.94	ng	91
21) Phenanthrene	17.60	178	25957	1.37	ng	# 95
22) Anthracene	17.69	178	26000m	1.55	ng	
23) Fluoranthene	19.61	202	124016	1.50	ng	100
25) Pyrene	19.97	202	132043	1.47	ng	100
27) Benzo(a)anthracene	21.72	228	148981m	1.50	ng	
28) Chrysene	21.77	228	128070m	1.25	ng	
29) Bis(2-ethylhexyl)phthalate	21.63	149	12427	0.90	ng	# 56
30) Indeno(1,2,3-cd)pyrene	26.62	276	143778	1.37	ng	99
32) Benzo(b)fluoranthene	23.38	252	31532m	1.54	ng	
33) Benzo(k)fluoranthene	23.43	252	33063	1.52	ng	94
34) Benzo(a)pyrene	24.01	252	30679	1.52	ng	# 95
35) Dibenzo(a,h)anthracene	26.63	278	29244	1.56	ng	93
36) Benzo(g,h,i)perylene	27.38	276	122484	1.55	ng	97

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

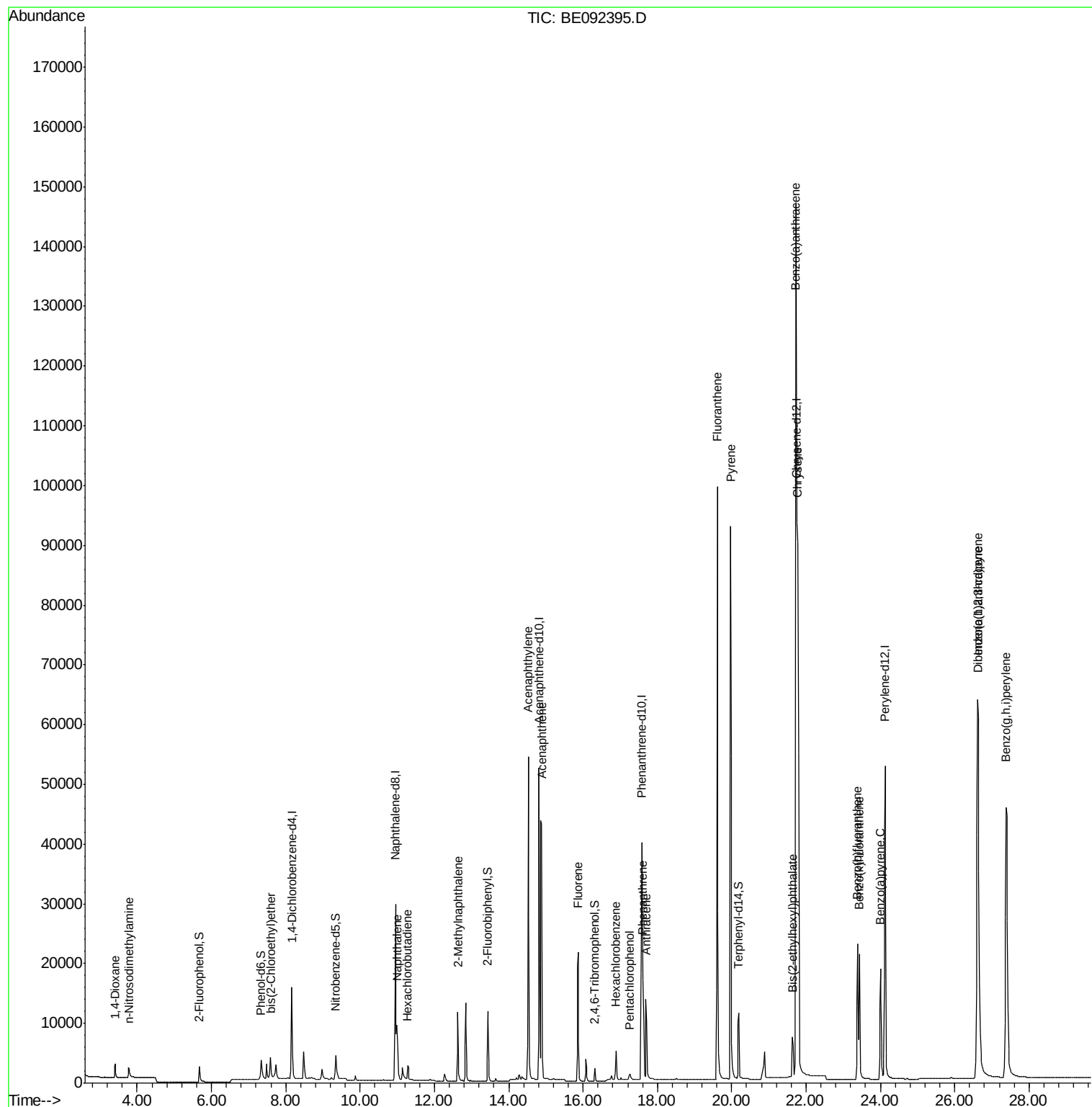
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE092216\
Data File : BE092395.D
Acq On : 22 Sep 2016 14:47
Operator : UM/SJ
Sample : SSTDIC1.6
Misc :
ALS Vial : 5 Sample Multiplier: 1

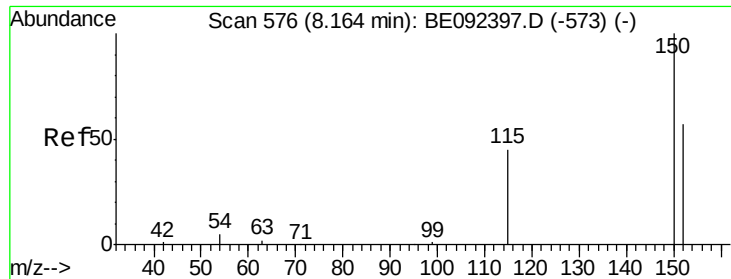
Instrument :
BNA_E
ClientSampled :
SSTDIC1.6

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Quant Time: Sep 22 17:05:08 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE092216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 22 16:57:02 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 576

Delta R.T. 0.00 min

Lab File: BE092395.D

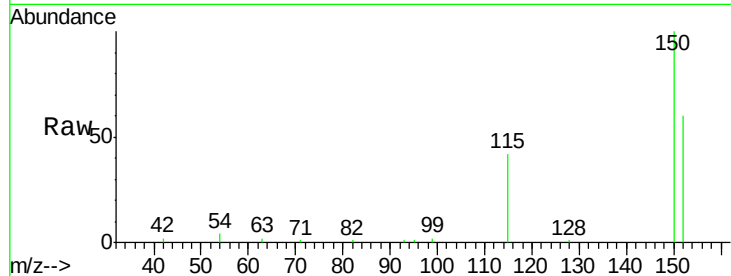
Acq: 22 Sep 2016 14:47

Instrument :

BNA_E

ClientSampled :

SSTDICC1.6



Tgt Ion: 152 Resp: 8745

Ion Ratio Lower Upper

152 100

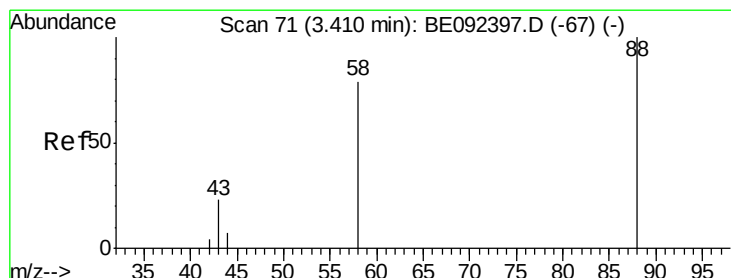
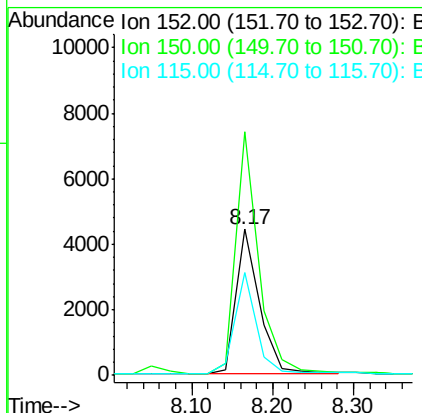
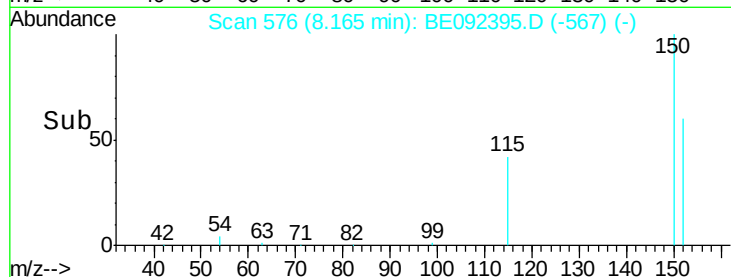
150 166.8 106.0 159.0#

115 70.1 31.2 46.8#

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#2

1,4-Dioxane

Concen: 1.33 ng

RT: 3.41 min Scan# 71

Delta R.T. -0.00 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

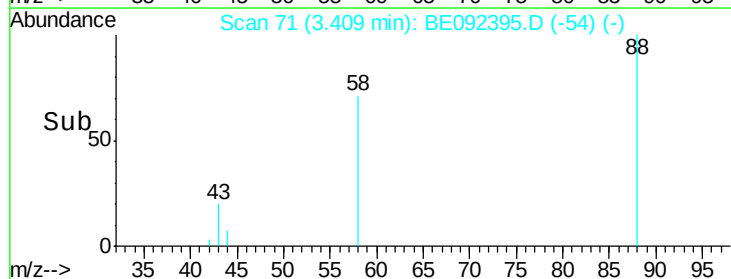
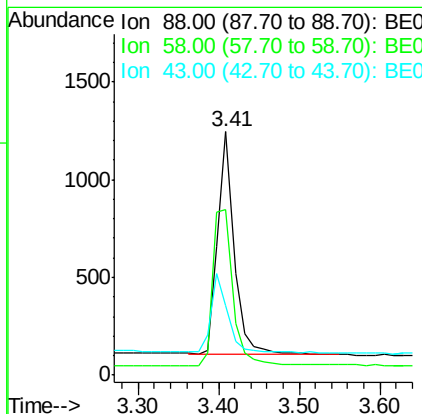
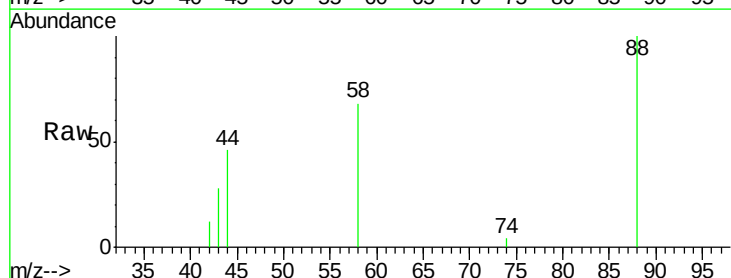
Tgt Ion: 88 Resp: 1644

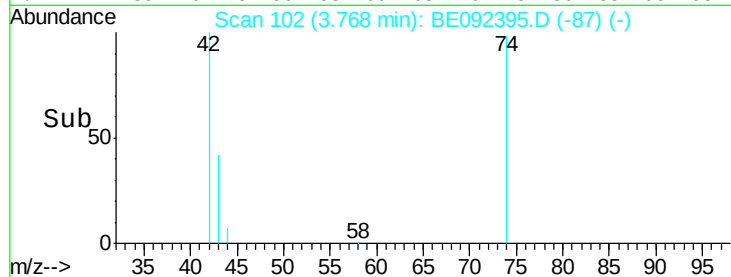
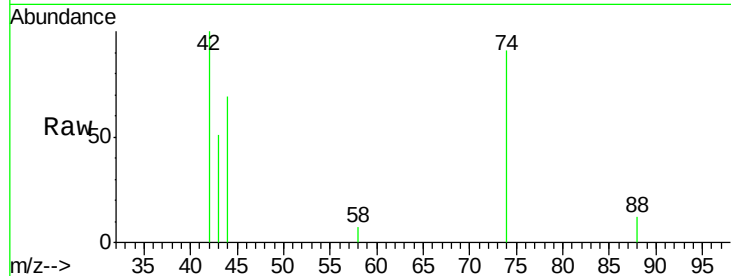
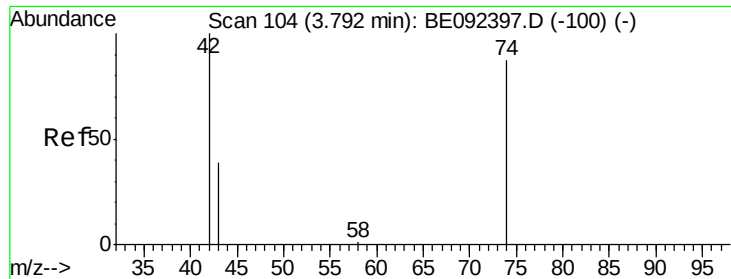
Ion Ratio Lower Upper

88 100

58 85.5 63.6 95.4

43 36.5 28.0 42.0





#3

n-Nitrosodimethylamine

Concen: 1.68 ng

RT: 3.77 min Scan# 102

Delta R.T. -0.02 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Tgt Ion:	42	Resp:	1939
Ion Ratio	Lower	Upper	
42	100		
74	110.0	86.0	129.0
44	8.3	5.1	7.7#

Instrument :

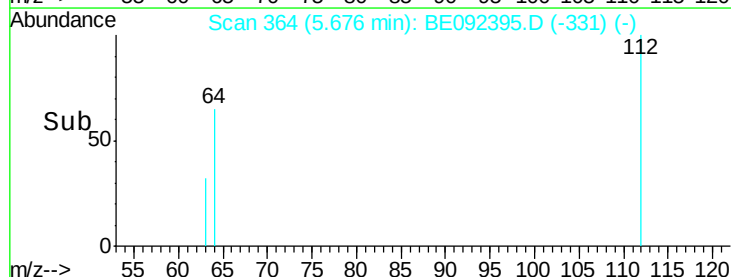
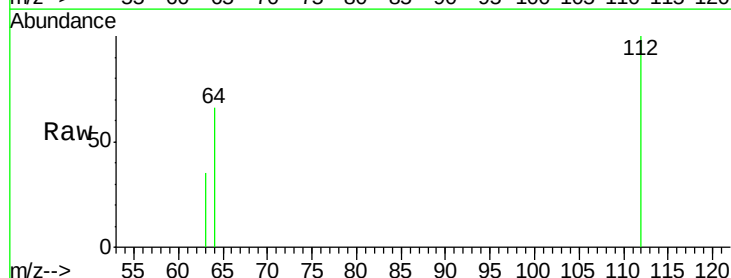
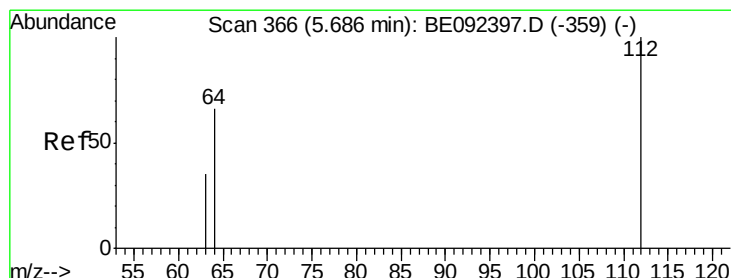
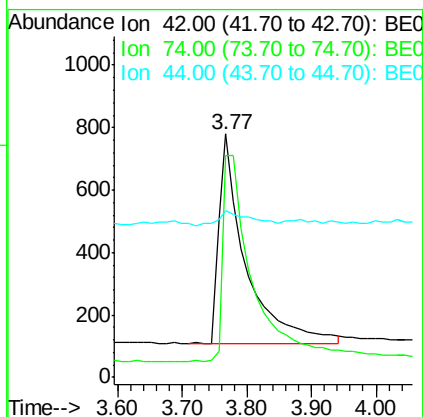
BNA_E

ClientSampled :

SSTDICC1.6

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#4

2-Fluorophenol

Concen: 1.48 ng

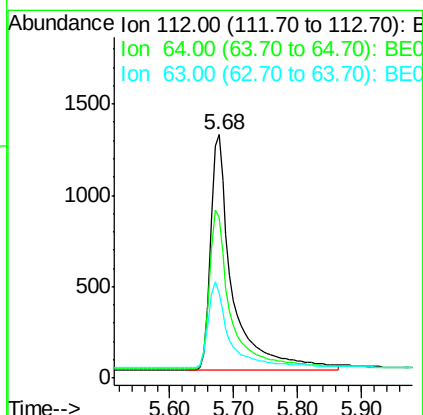
RT: 5.68 min Scan# 364

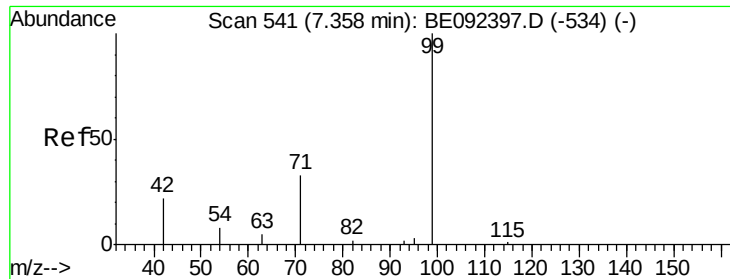
Delta R.T. -0.01 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Tgt Ion:	112	Resp:	3086
Ion Ratio	Lower	Upper	
112	100		
64	67.1	53.5	80.3
63	36.4	27.9	41.9





#5

Phenol-d6

Concen: 1.65 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Instrument :

BNA_E

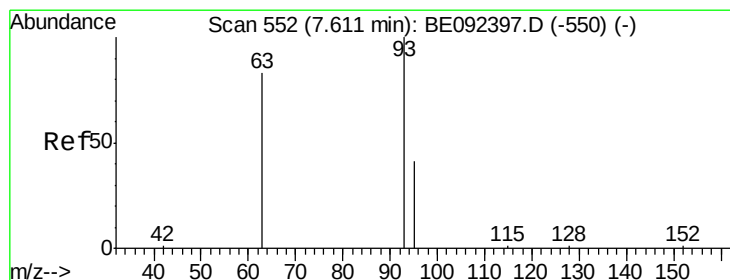
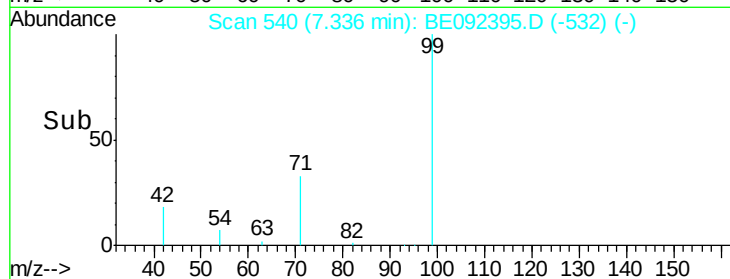
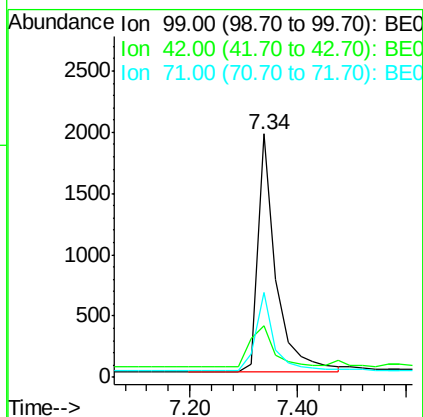
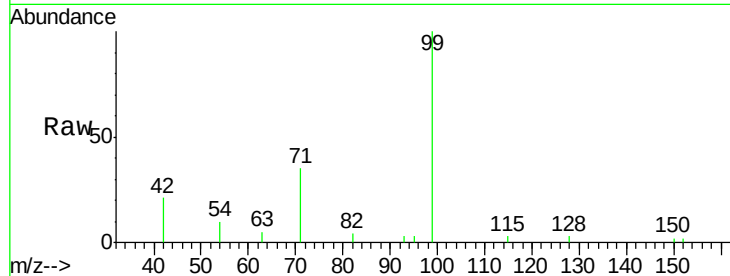
ClientSampleId :

SSTDICC1.6

Tgt Ion:	99	Resp:	4576
Ion	Ratio	Lower	Upper
99	100		
42	22.9	16.0	24.0
71	33.5	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 1.65 ng

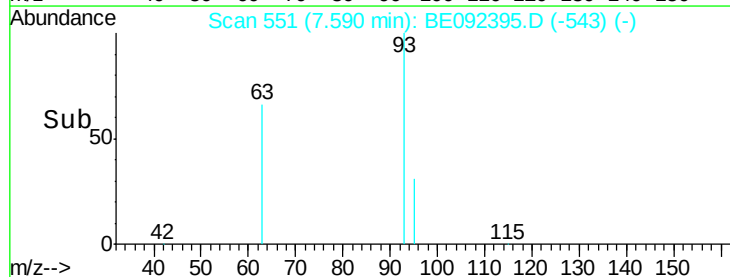
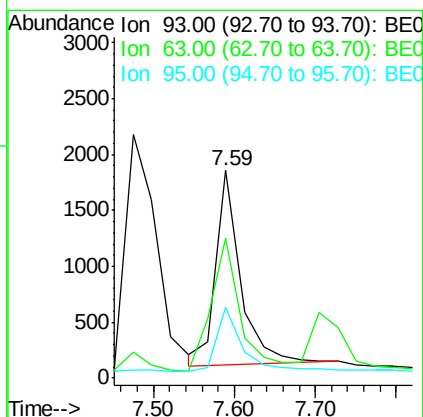
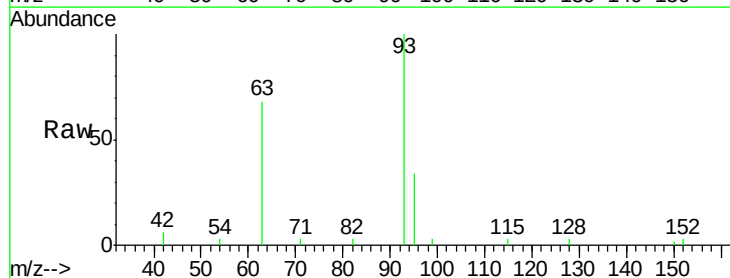
RT: 7.59 min Scan# 551

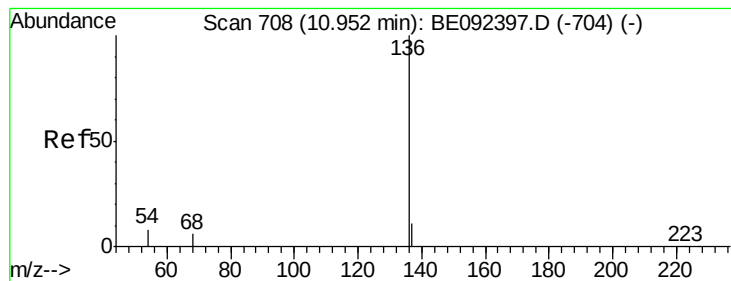
Delta R.T. -0.02 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Tgt Ion:	93	Resp:	3713
Ion	Ratio	Lower	Upper
93	100		
63	78.2	71.6	107.4
95	34.3	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. -0.00 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Instrument :

BNA_E

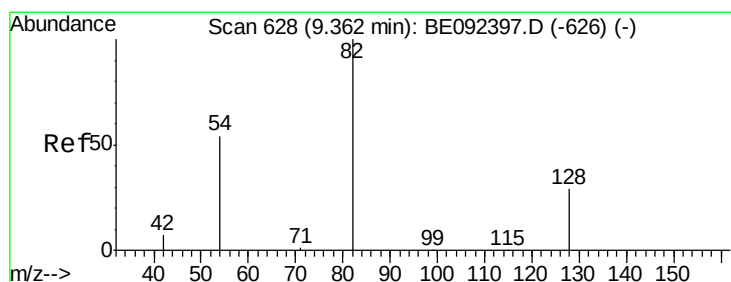
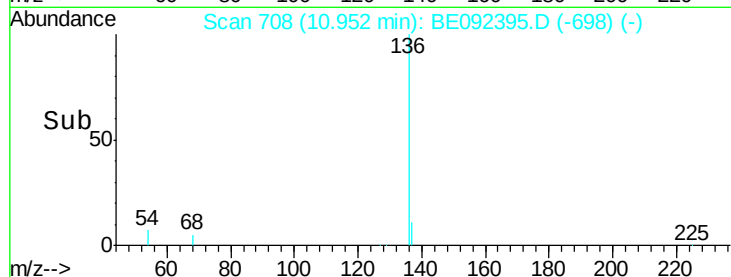
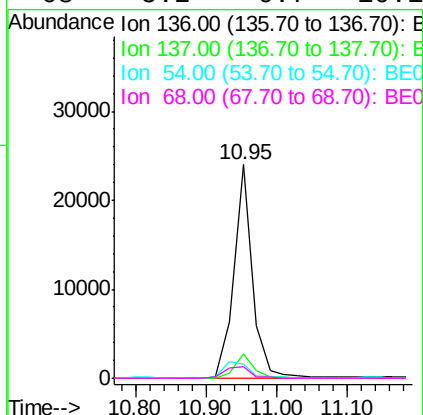
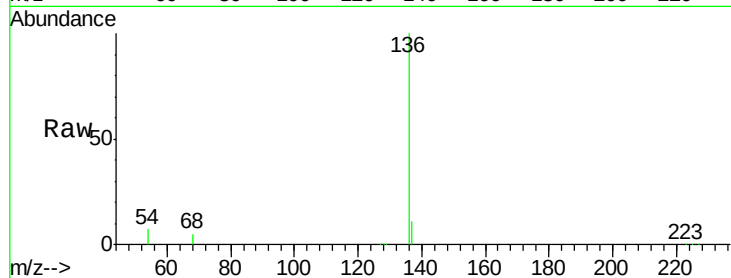
ClientSampleId :

SSTDICC1.6

Tgt Ion:	136	Resp:	43647
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.2	12.4
54	6.8	9.6	14.4#
68	5.2	6.7	10.1#

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#8

Nitrobenzene-d5

Concen: 1.51 ng

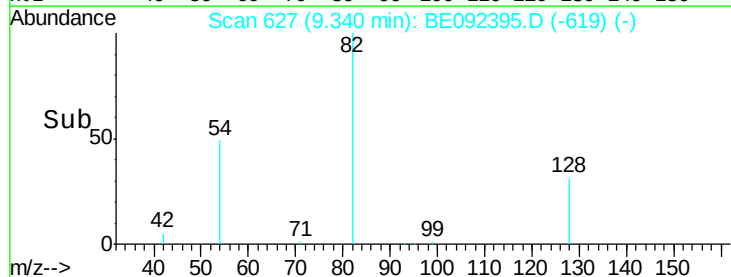
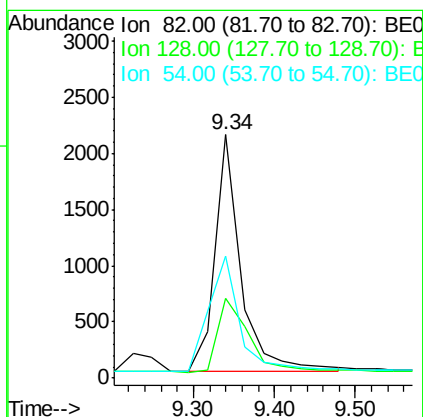
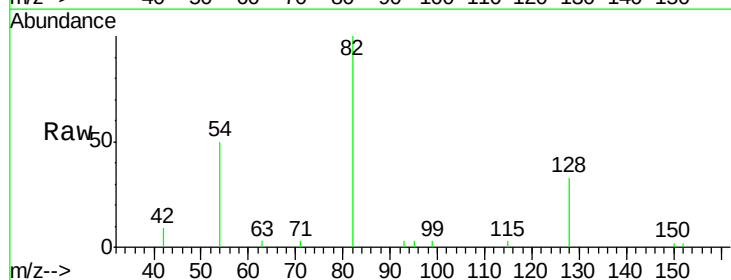
RT: 9.34 min Scan# 627

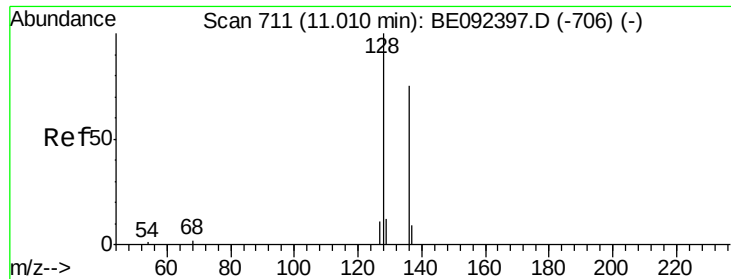
Delta R.T. -0.02 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Tgt Ion:	82	Resp:	4730
Ion Ratio	Lower	Upper	
82	100		
128	32.8	39.0	58.4#
54	50.0	44.8	67.2





#9

Naphthalene

Concen: 1.52 ng

RT: 10.99 min Scan# 710

Delta R.T. -0.02 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Instrument :

BNA_E

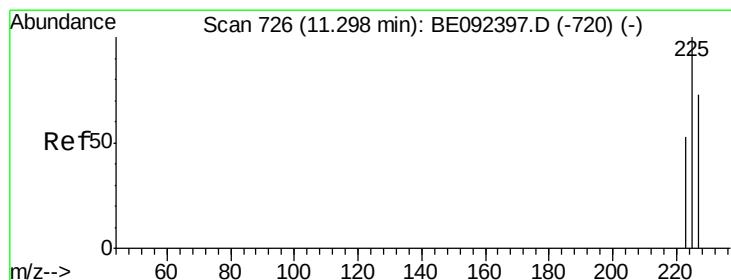
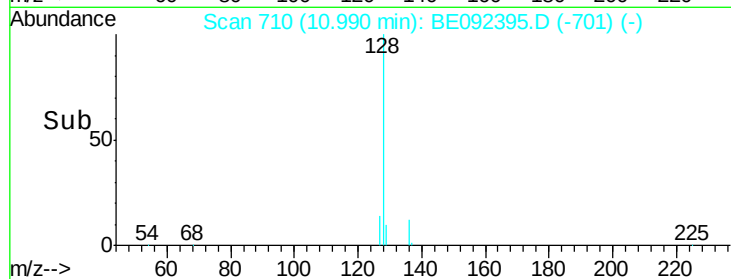
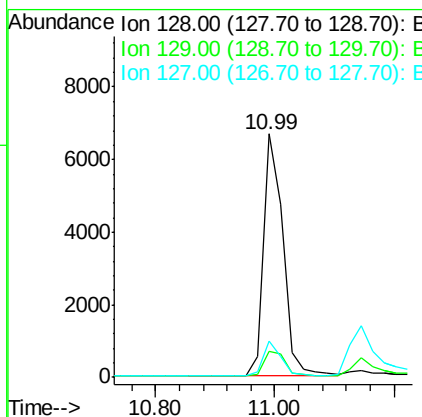
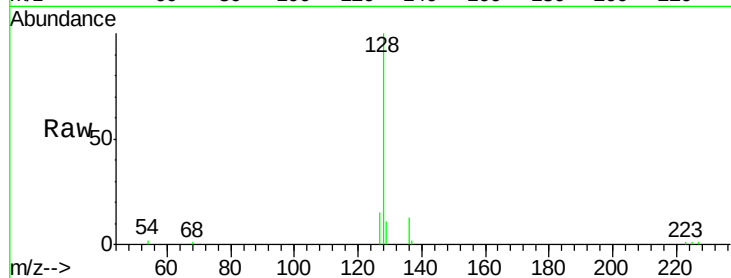
ClientSampleId :

SSTDICC1.6

Tgt Ion:	128	Resp:	14863
Ion Ratio	Lower	Upper	
128	100		
129	10.7	11.2	16.8#
127	14.9	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 1.54 ng

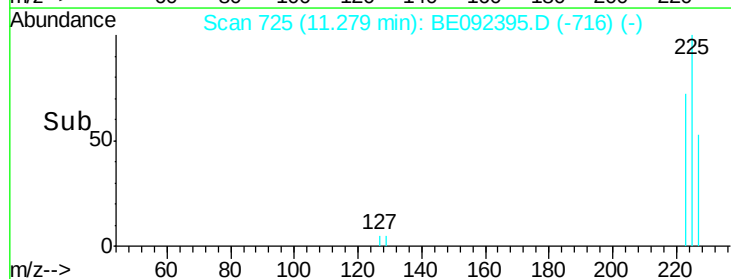
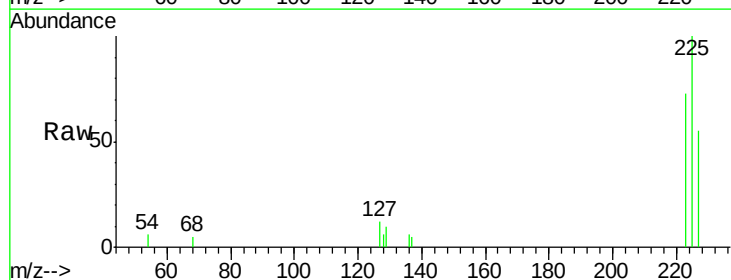
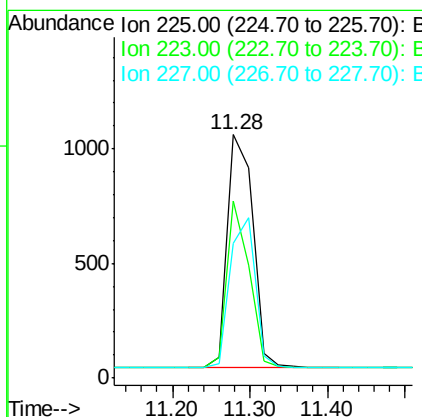
RT: 11.28 min Scan# 725

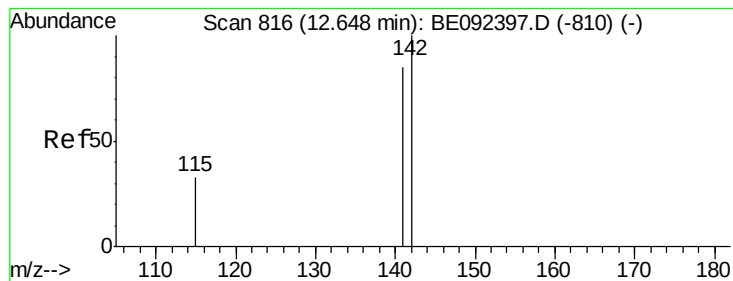
Delta R.T. -0.02 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Tgt Ion:	225	Resp:	2346
Ion Ratio	Lower	Upper	
225	100		
223	62.3	50.6	76.0
227	62.9	51.4	77.0





#11

2-Methylnaphthalene

Concen: 1.62 ng

RT: 12.62 min Scan# 814

Delta R.T. -0.02 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Instrument :

BNA_E

ClientSampleId :

SSTDICC1.6

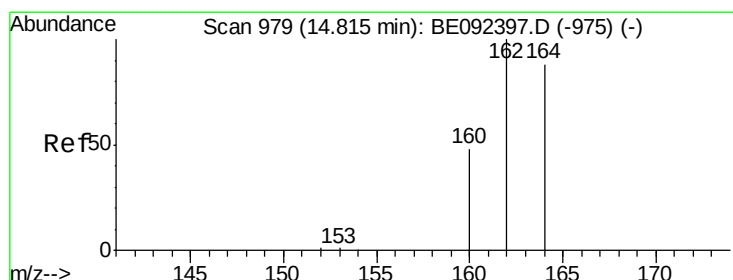
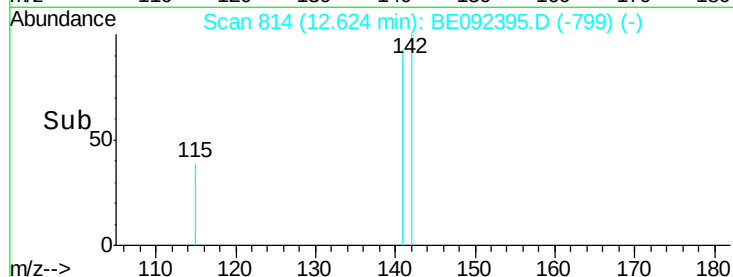
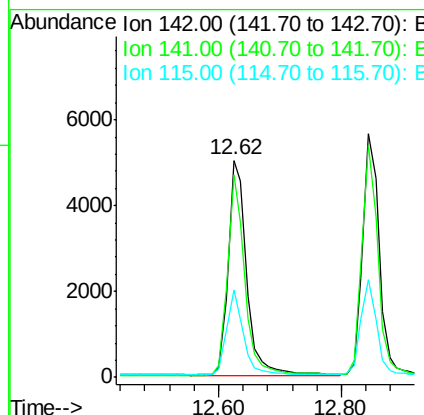
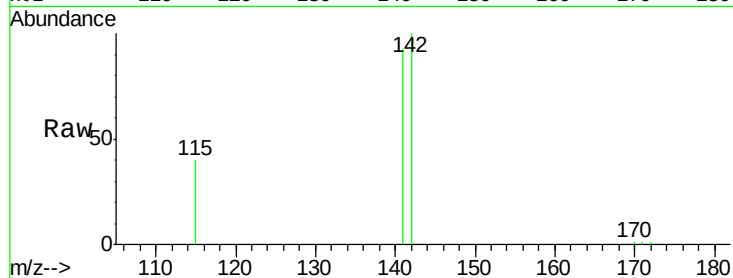
Tgt Ion:142 Resp: 10372

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.7	110.5
115	40.1	34.0	51.0

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.82 min Scan# 980

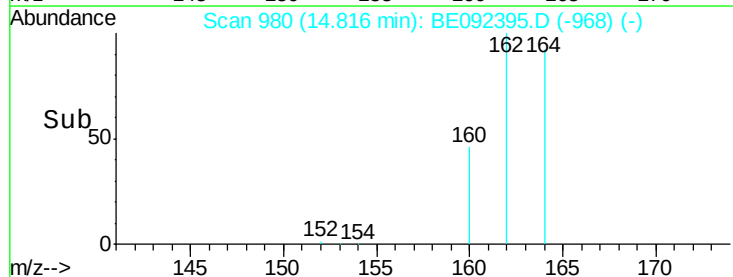
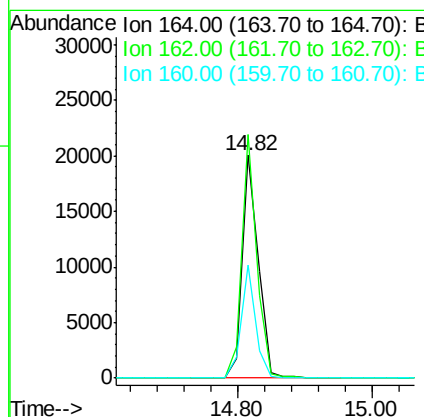
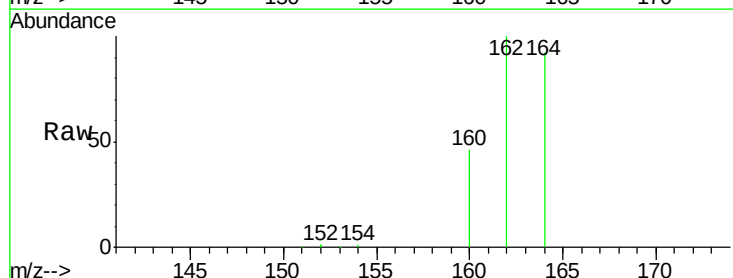
Delta R.T. 0.00 min

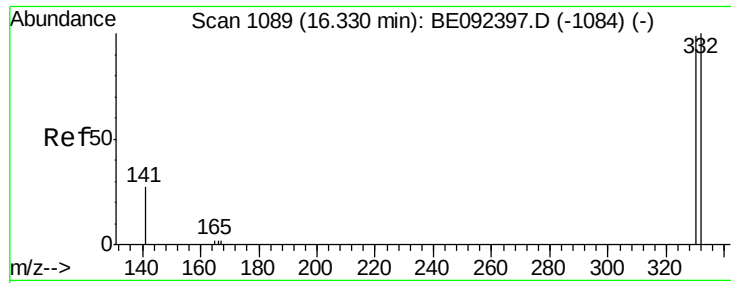
Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Tgt Ion:164 Resp: 32709

Ion	Ratio	Lower	Upper
164	100		
162	109.2	71.4	107.0#
160	50.5	27.4	41.2#





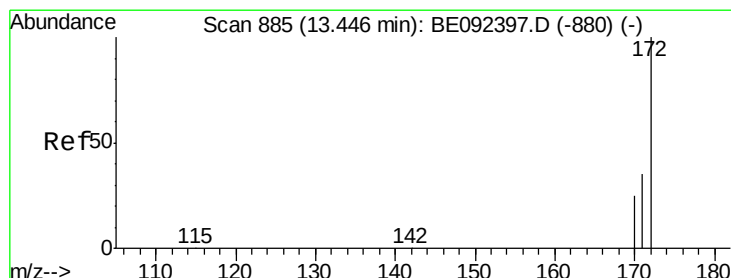
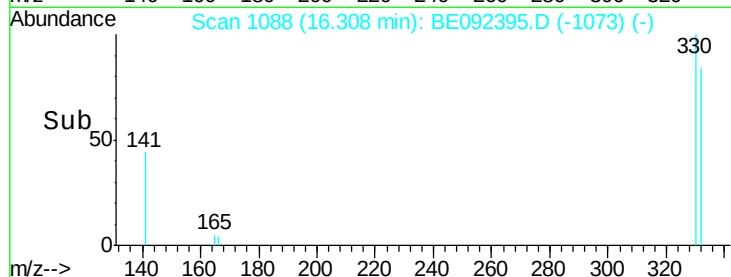
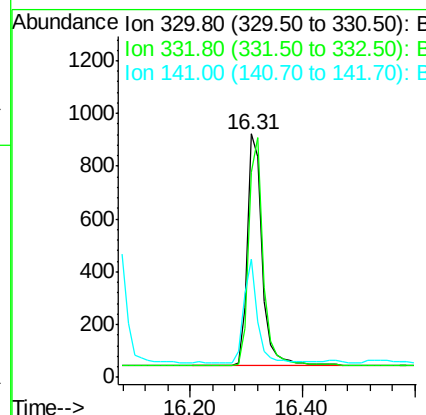
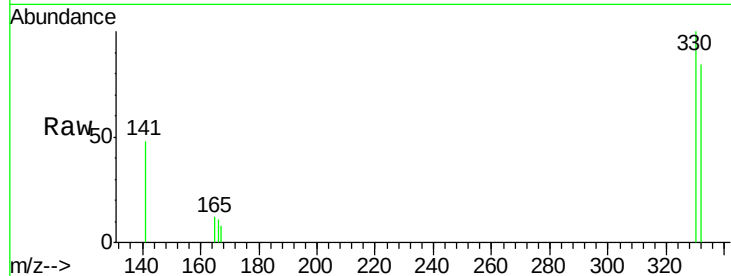
#13
 2,4,6-Tribromophenol
 Concen: 1.63 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. -0.02 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	75.4	113.0
141	40.2	31.0	46.6

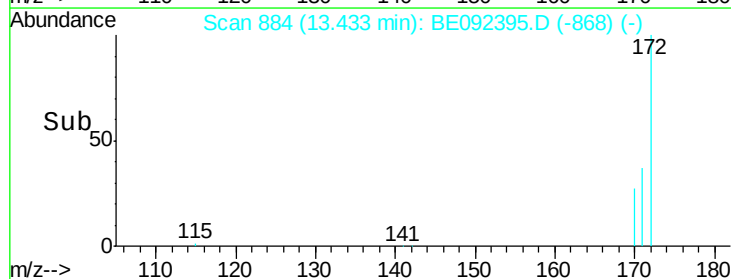
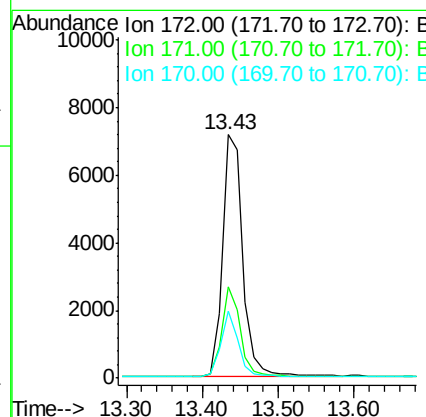
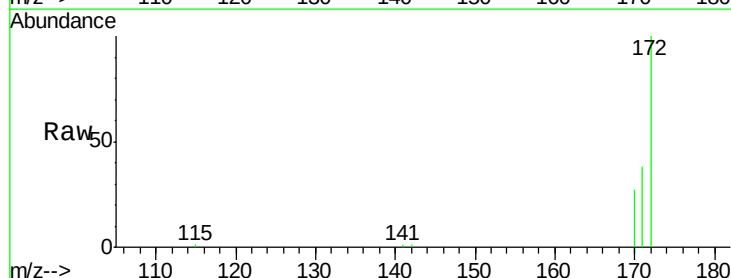
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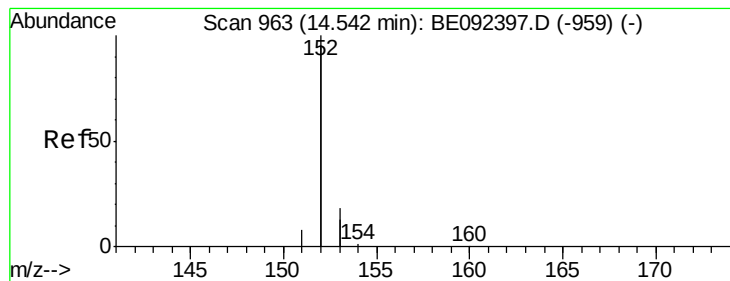
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#14
 2-Fluorobiphenyl
 Concen: 1.34 ng
 RT: 13.43 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.7	30.1	45.1
170	27.3	21.8	32.6





#15

Acenaphthylene

Concen: 1.40 ng

RT: 14.53 min Scan# 963

Delta R.T. -0.02 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Instrument :

BNA_E

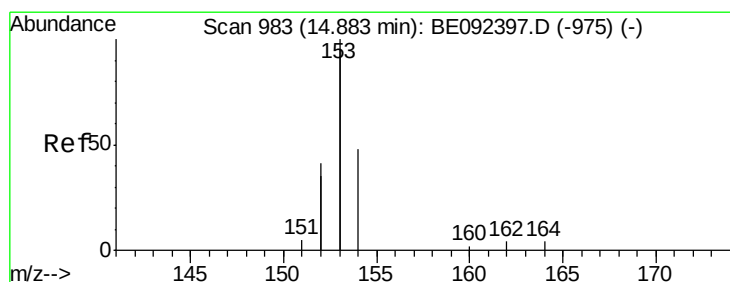
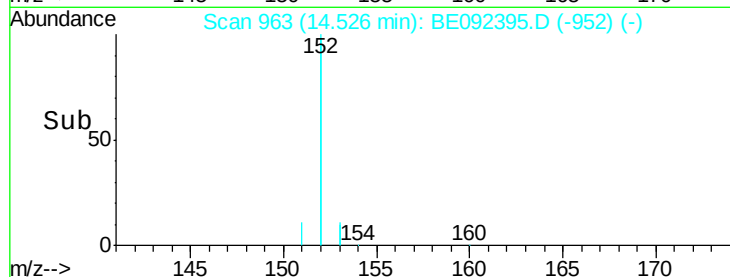
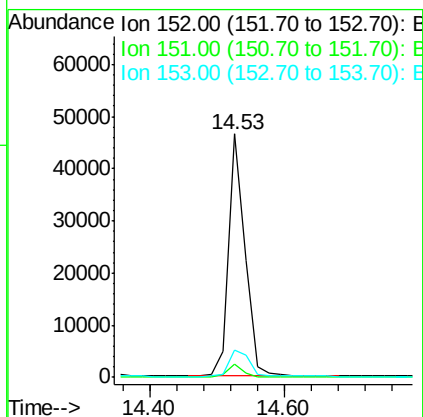
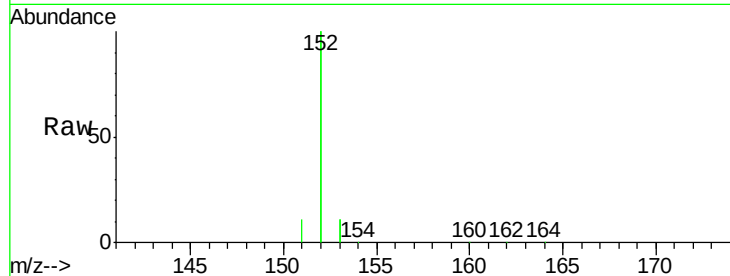
ClientSampleId :

SSTDICC1.6

Tgt Ion:	152	Resp:	78721
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	13.0	10.4	15.6

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#16

Acenaphthene

Concen: 1.31 ng

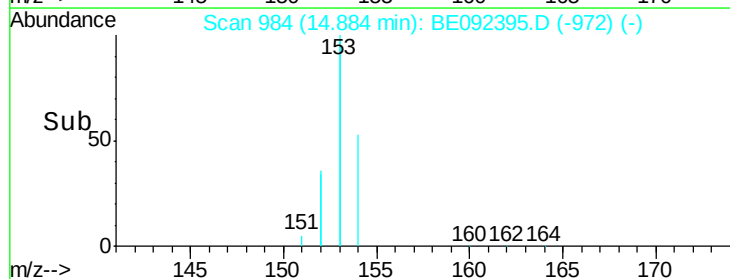
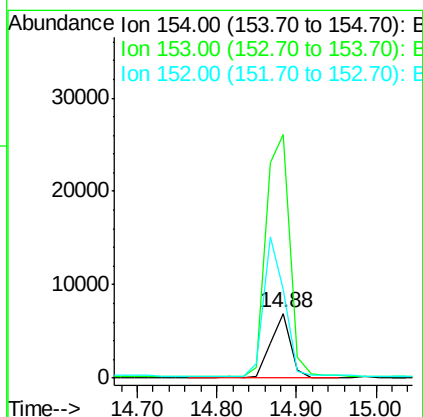
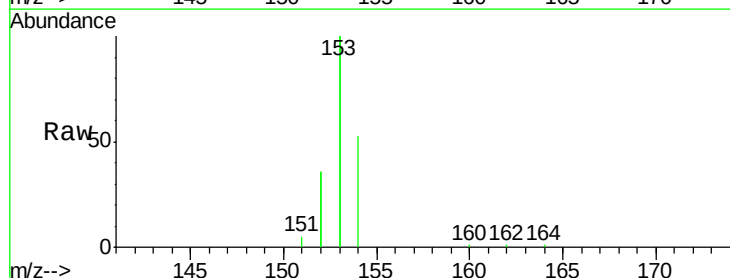
RT: 14.88 min Scan# 984

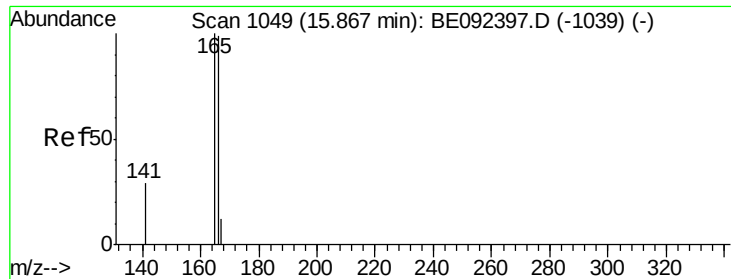
Delta R.T. 0.00 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Tgt Ion:	154	Resp:	11913
Ion Ratio	Lower	Upper	
154	100		
153	449.9	350.8	526.2
152	225.0	171.1	256.7





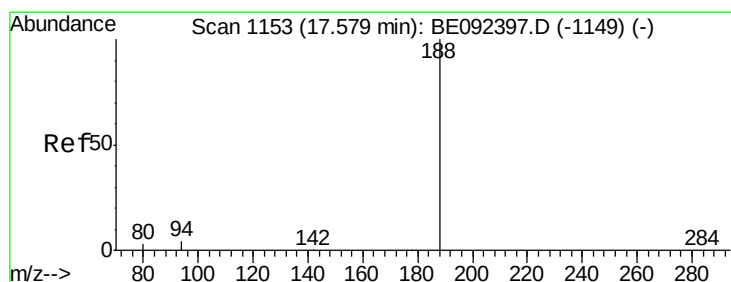
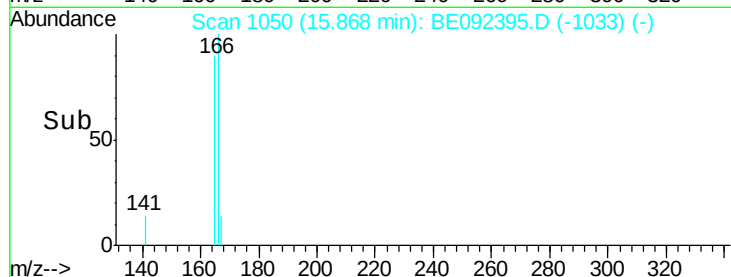
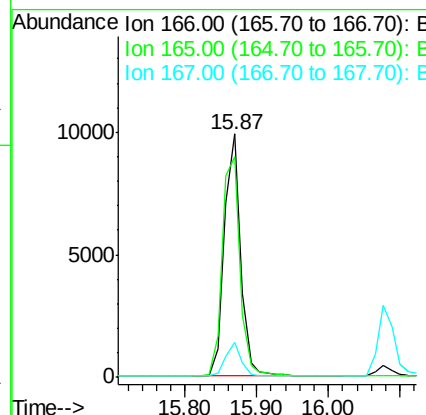
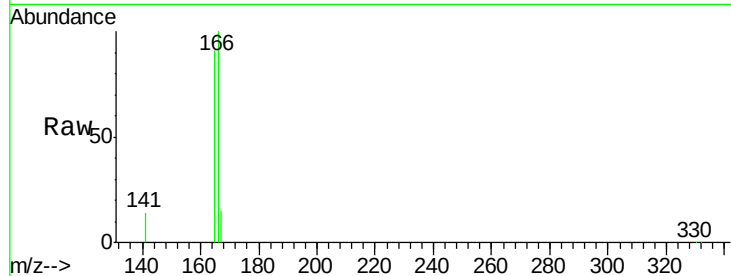
#17
Fluorene
 Concen: 1.38 ng
 RT: 15.87 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.2	117.4
167	13.4	11.0	16.4

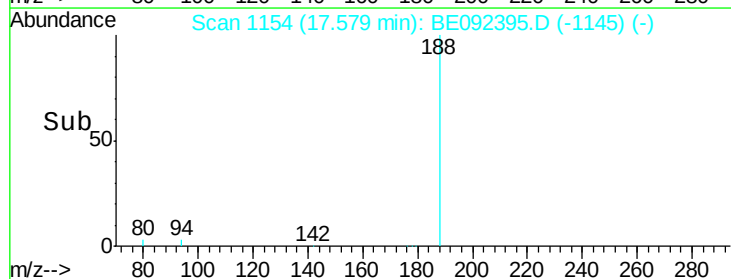
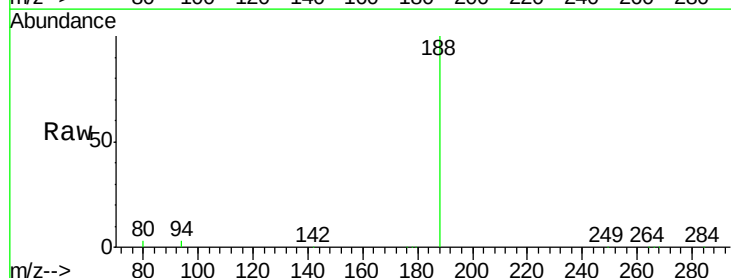
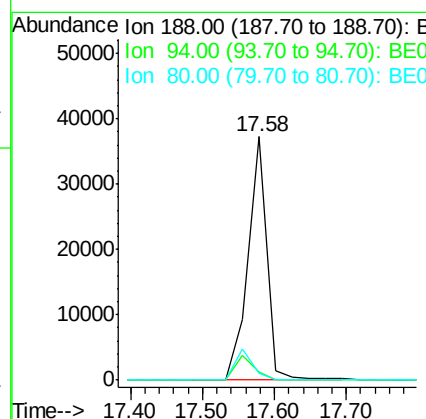
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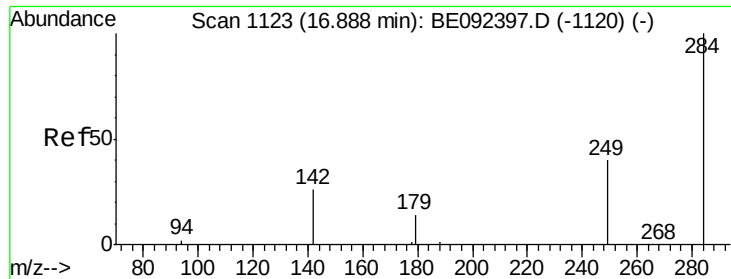
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.58 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	3.5	3.2	4.8
80	2.8	2.6	3.8





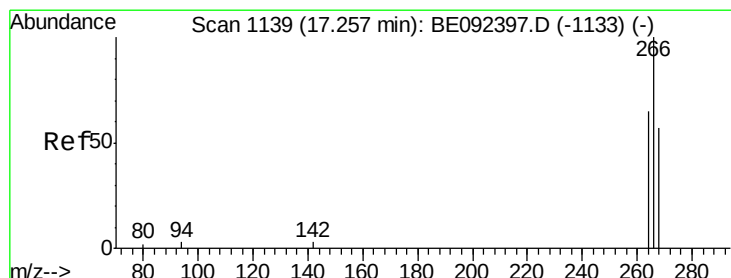
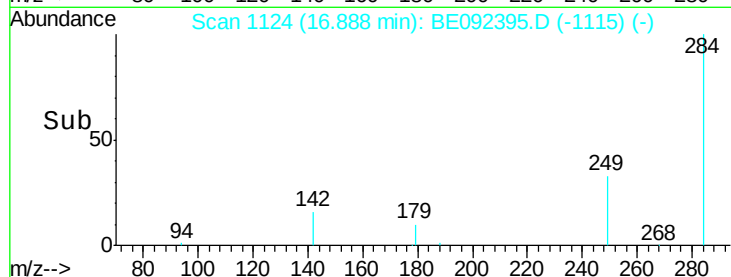
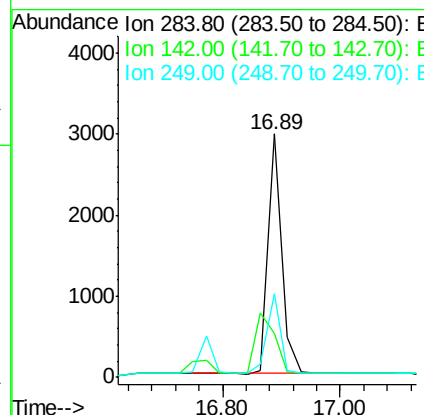
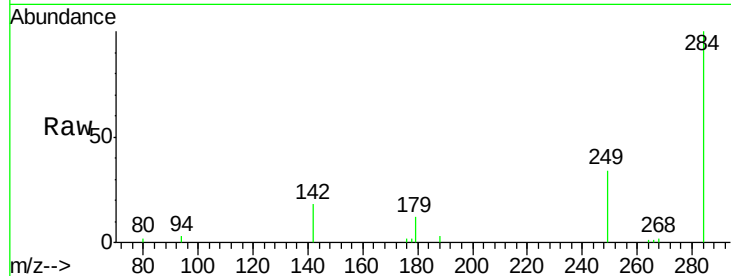
#19
Hexachlorobenzene
Concen: 1.49 ng
RT: 16.89 min Scan# 1124
Delta R.T. -0.00 min
Lab File: BE092395.D
Acq: 22 Sep 2016 14:47

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	32.5	27.9	41.9

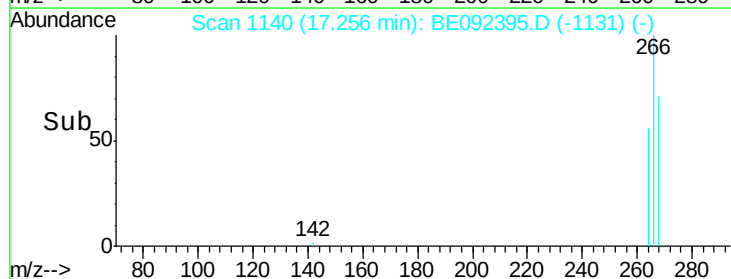
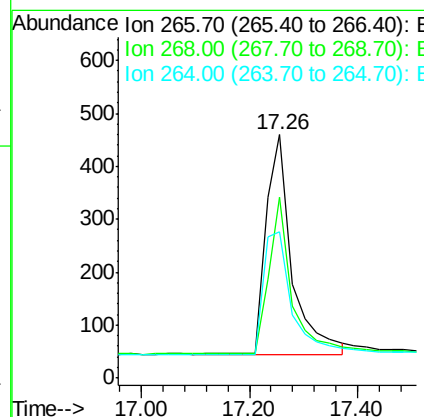
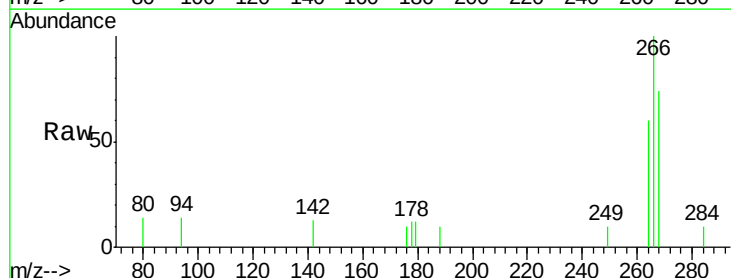
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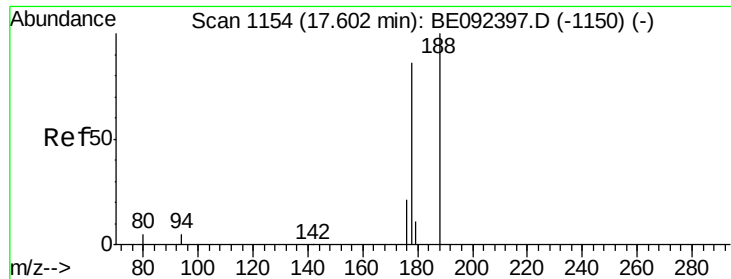
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#20
Pentachlorophenol
Concen: 1.94 ng
RT: 17.26 min Scan# 1140
Delta R.T. -0.00 min
Lab File: BE092395.D
Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Lower	Upper
266	100		
268	74.1	62.5	93.7
264	60.2	57.2	85.8





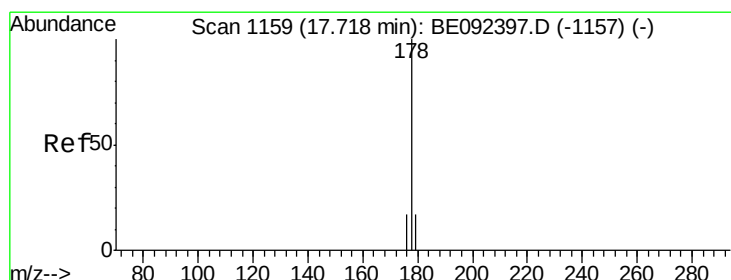
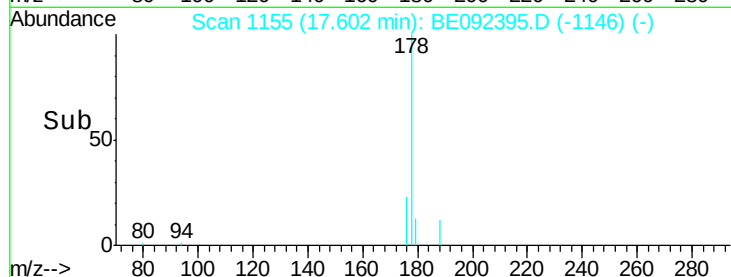
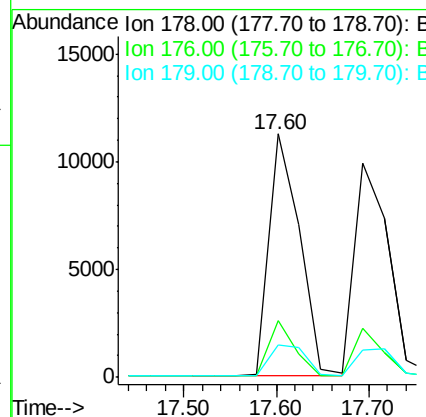
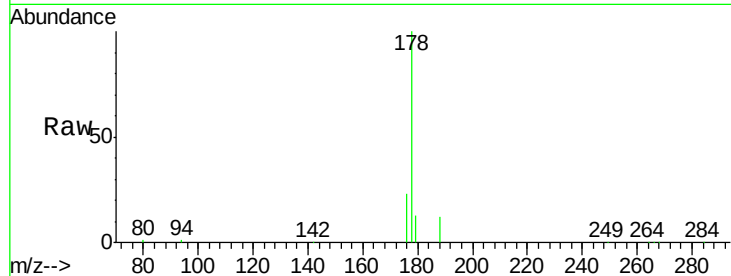
#21
Phenanthrene
Concen: 1.37 ng
RT: 17.60 min Scan# 1155
Delta R.T. -0.00 min
Lab File: BE092395.D
Acq: 22 Sep 2016 14:47

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.5	16.0	24.0

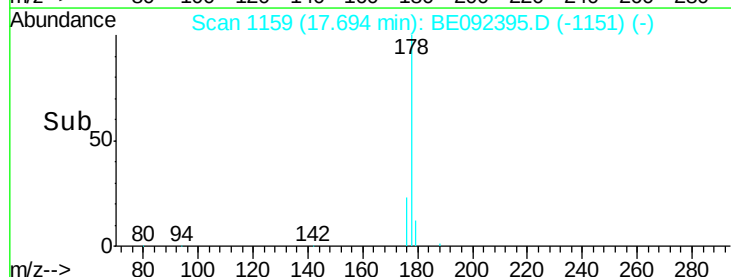
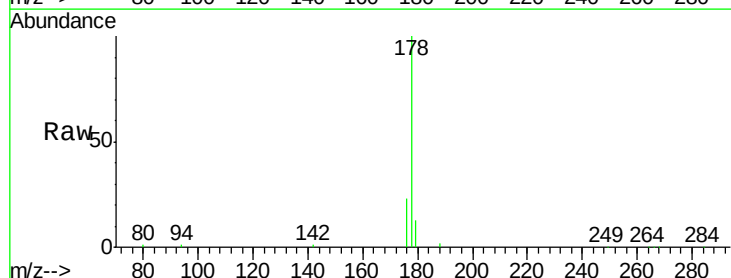
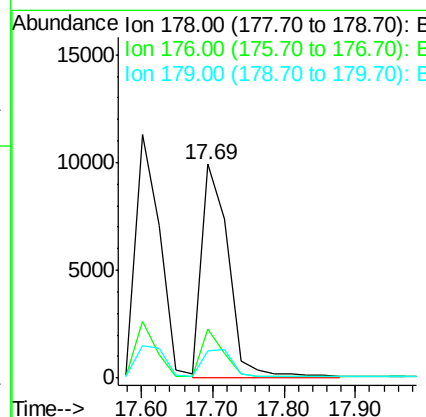
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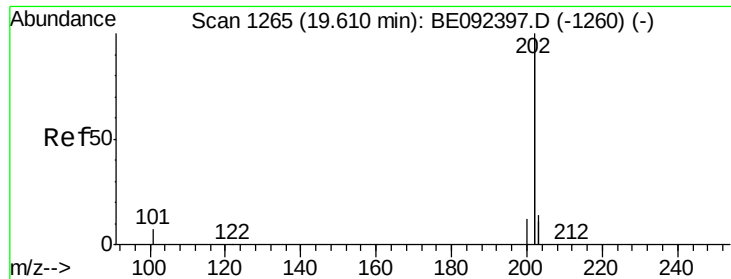
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#22
Anthracene
Concen: 1.55 ng m
RT: 17.69 min Scan# 1159
Delta R.T. -0.02 min
Lab File: BE092395.D
Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.0	22.4
179	15.3	12.2	18.2





#23

Fluoranthene

Concen: 1.50 ng

RT: 19.61 min Scan# 1266

Delta R.T. -0.00 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Instrument :

BNA_E

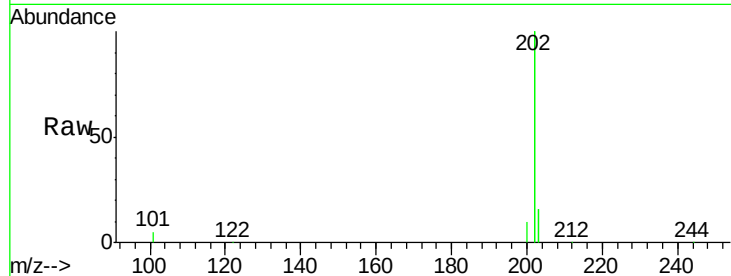
ClientSampled :

SSTDICC1.6

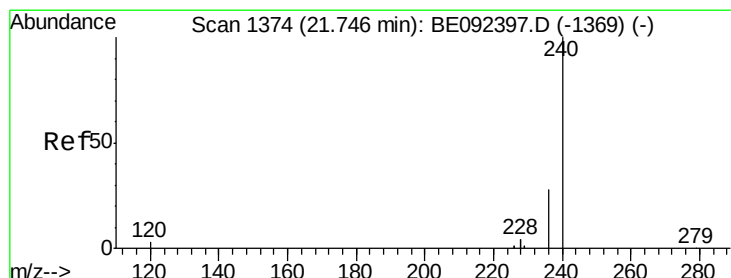
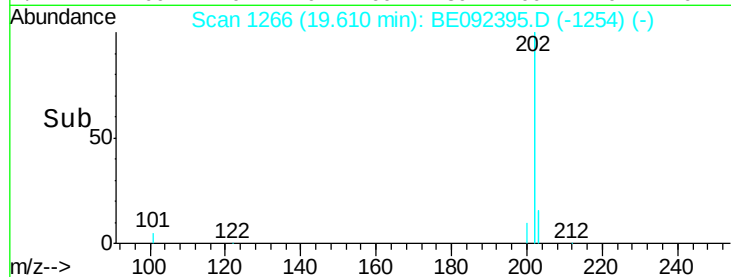
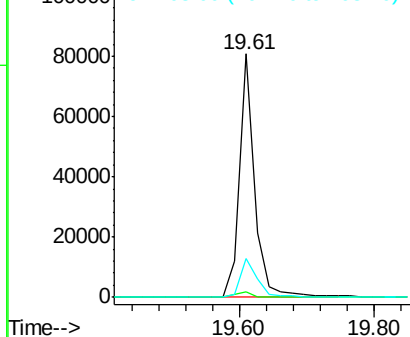
Tgt	Ion	202	Resp:	124016
Ion	Ratio	Lower	Upper	
202	100			
101	2.8	2.2	3.4	
203	17.2	13.7	20.5	

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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



#24

Chrysene-d12

Concen: 5.00 ng

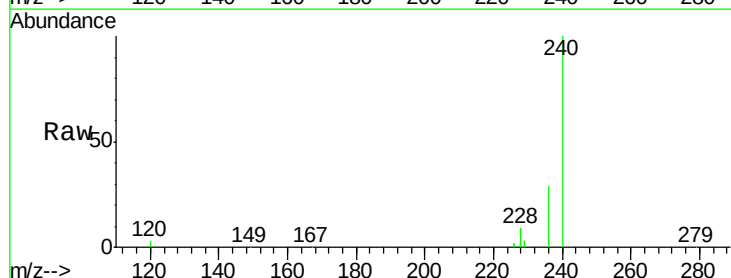
RT: 21.75 min Scan# 1375

Delta R.T. -0.00 min

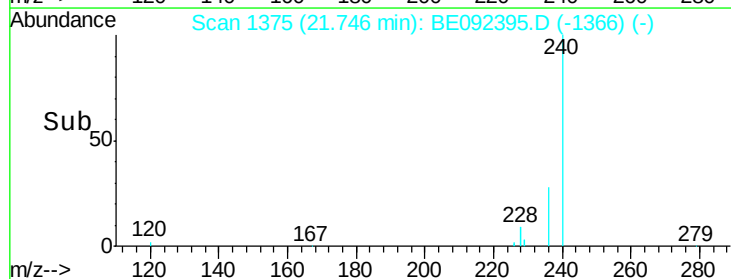
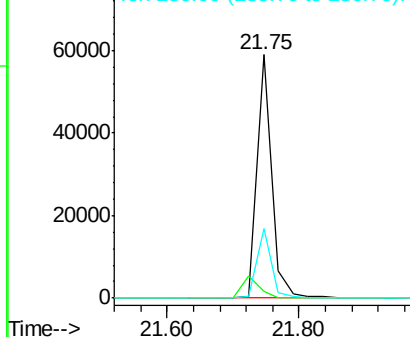
Lab File: BE092395.D

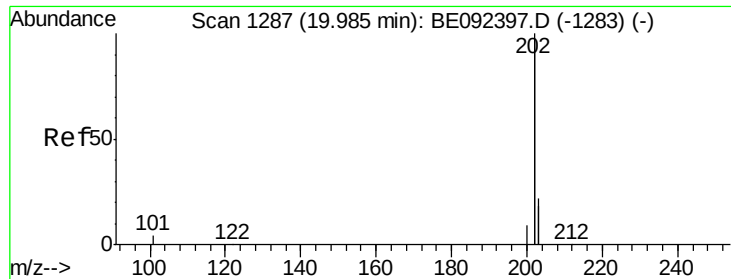
Acq: 22 Sep 2016 14:47

Tgt	Ion	240	Resp:	92246
Ion	Ratio	Lower	Upper	
240	100			
120	2.6	2.6	4.0#	
236	28.5	24.6	37.0	



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





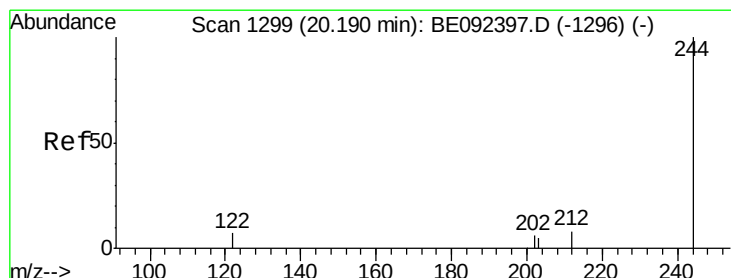
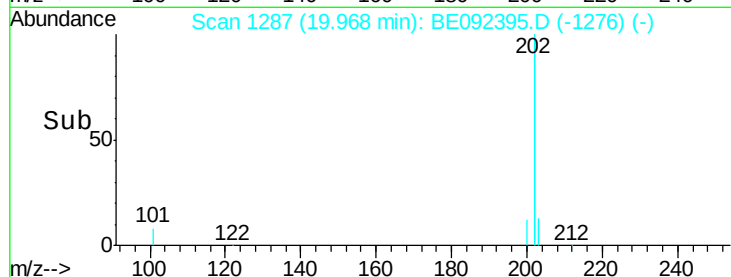
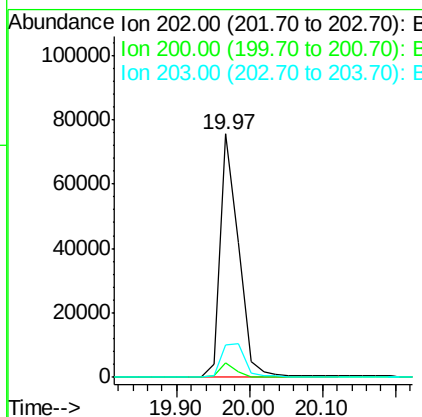
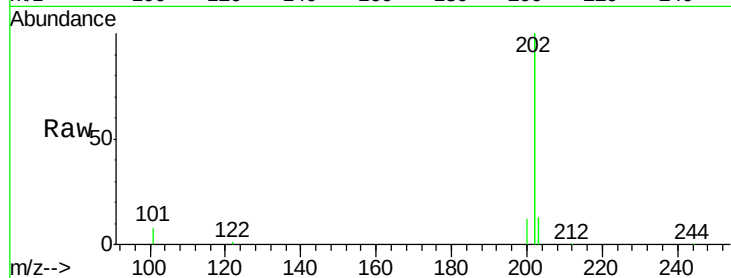
#25
 Pyrene
 Concen: 1.47 ng
 RT: 19.97 min Scan# 1287
 Delta R.T. -0.02 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	5.3	4.2	6.4
203	17.2	13.9	20.9

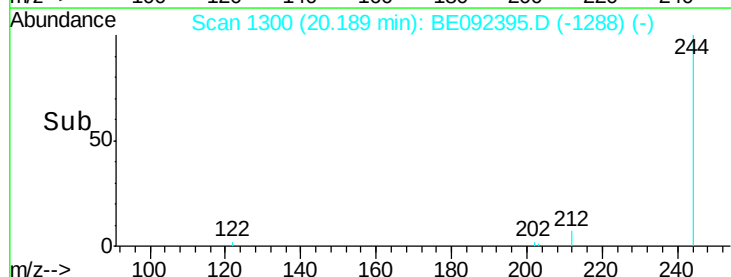
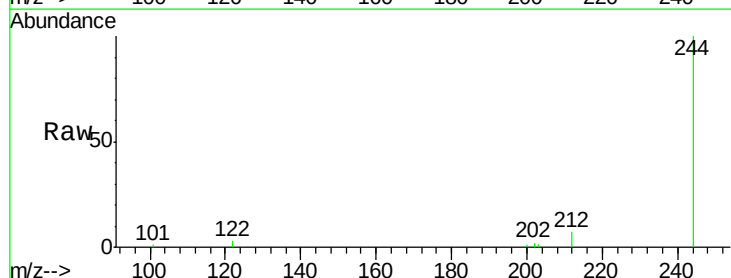
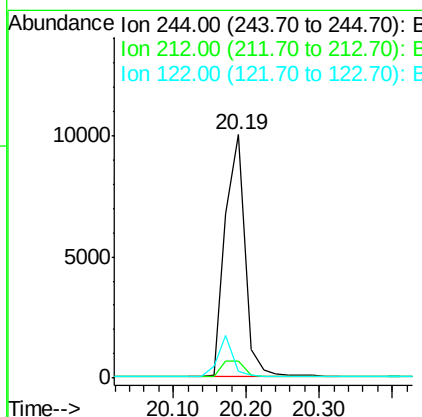
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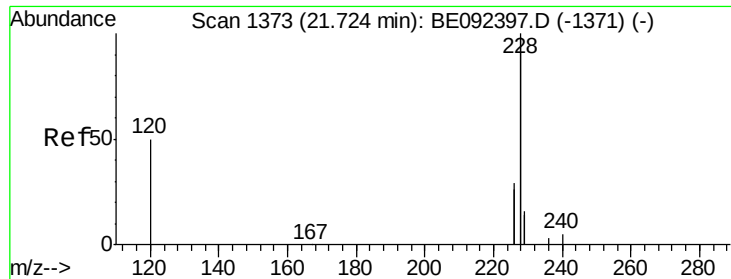
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#26
 Terphenyl-d14
 Concen: 1.40 ng
 RT: 20.19 min Scan# 1300
 Delta R.T. -0.00 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.1	6.7	10.1
122	2.8	3.6	5.4#





#27

Benzo(a)anthracene

Concen: 1.50 ng m

RT: 21.72 min Scan# 1374

Delta R.T. -0.00 min

Lab File: BE092395.D

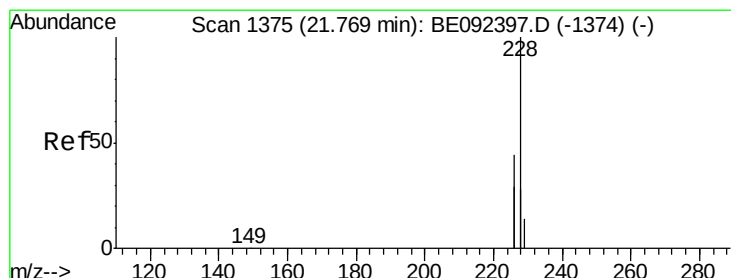
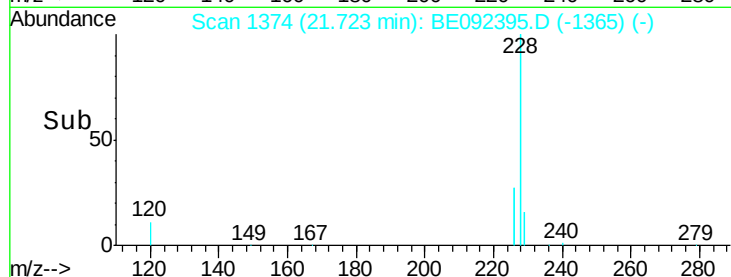
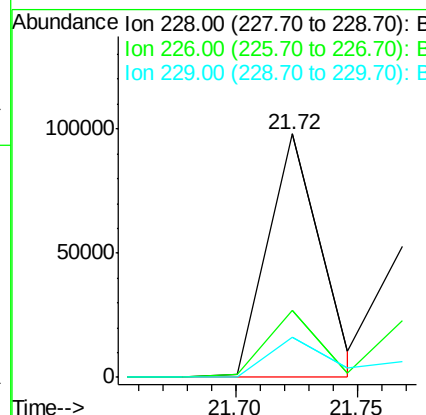
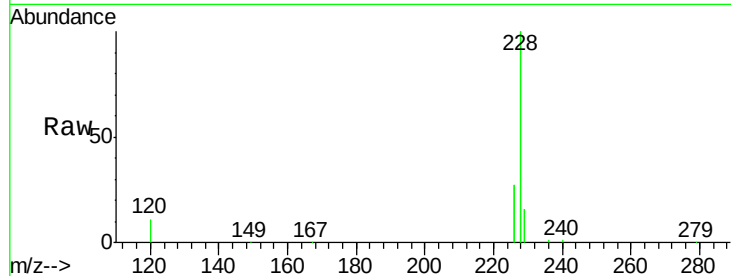
Acq: 22 Sep 2016 14:47

Instrument :
BNA_E
ClientSampled :
SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	23.6	35.4
229	16.3	13.3	19.9

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#28

Chrysene

Concen: 1.25 ng m

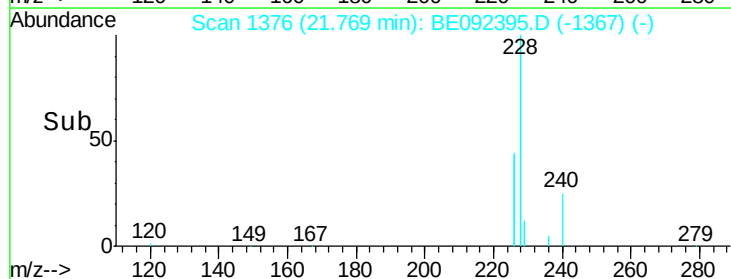
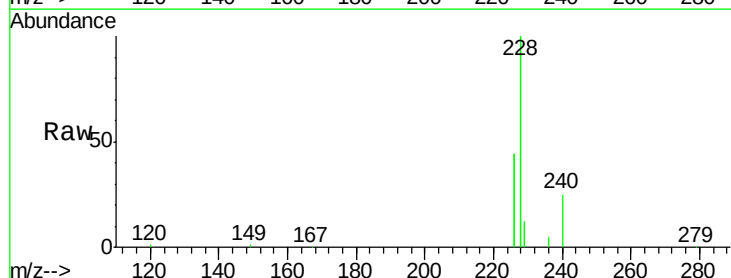
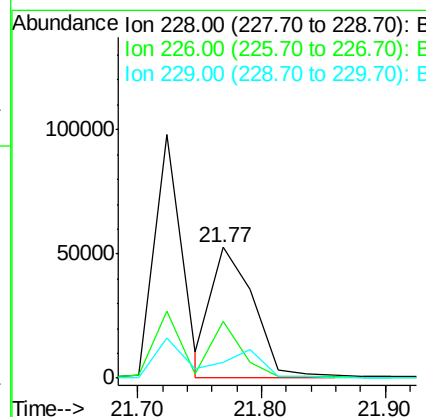
RT: 21.77 min Scan# 1376

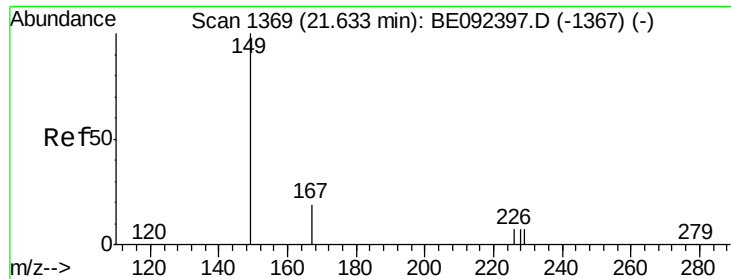
Delta R.T. -0.00 min

Lab File: BE092395.D

Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	43.8	36.3	54.5
229	12.2	10.6	16.0





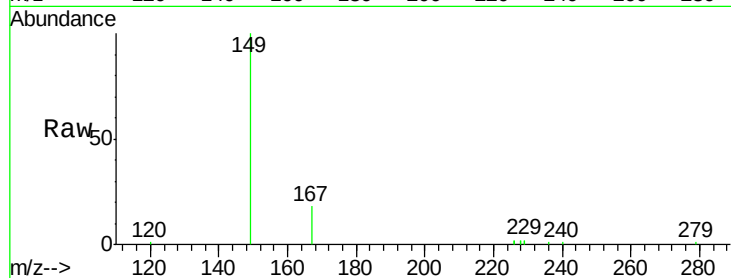
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.90 ng
 RT: 21.63 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

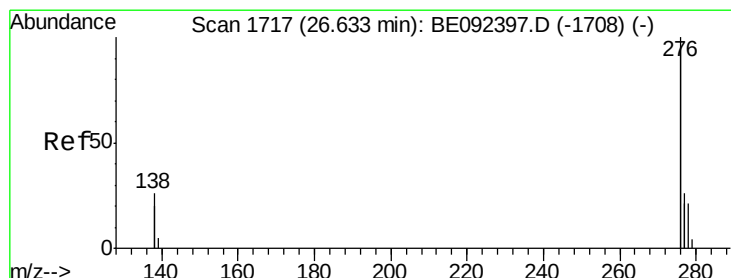
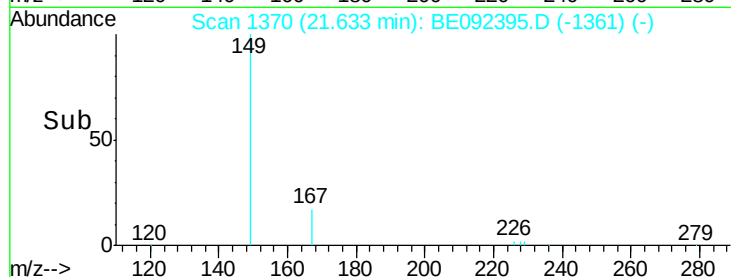
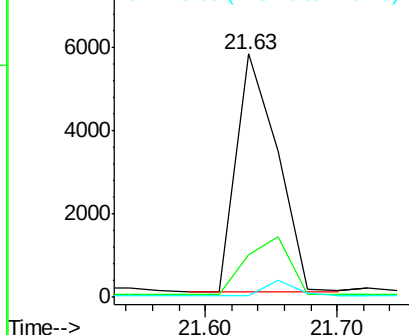
Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
167	0.0	16.0	24.0#
279	0.0	16.0	24.0#

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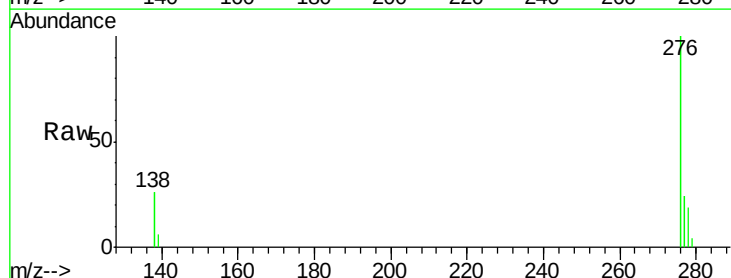


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

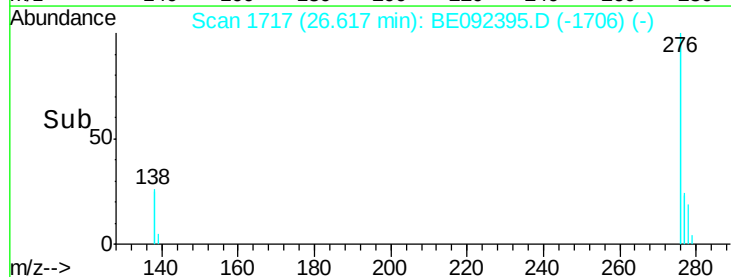
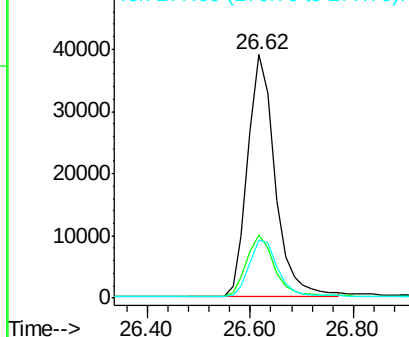


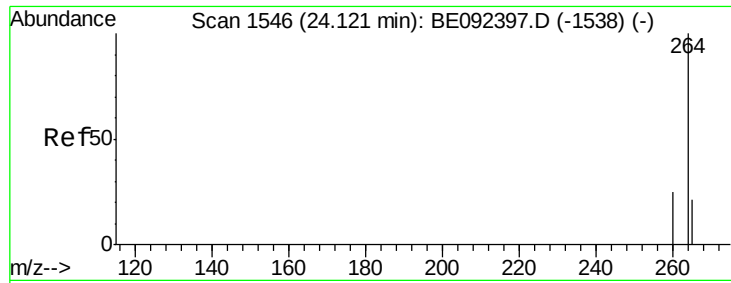
#30
 Indeno(1,2,3-cd)pyrene
 Concen: 1.37 ng
 RT: 26.62 min Scan# 1717
 Delta R.T. -0.02 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.0	20.3	30.5
277	24.6	19.7	29.5



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E





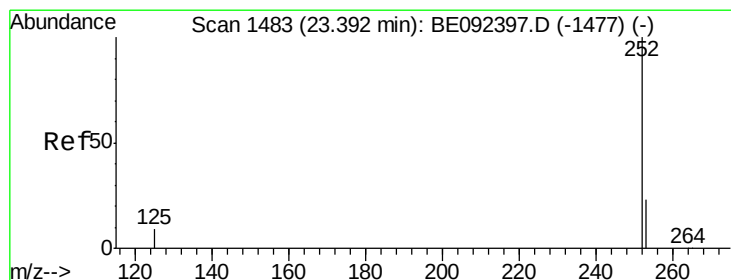
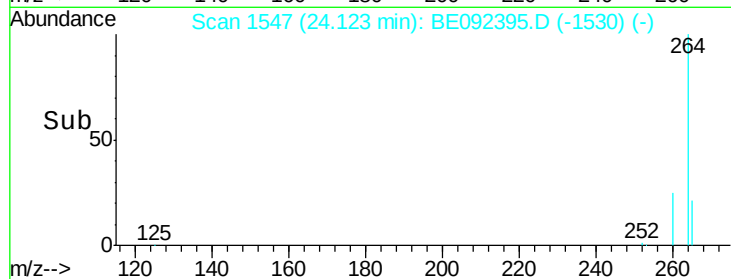
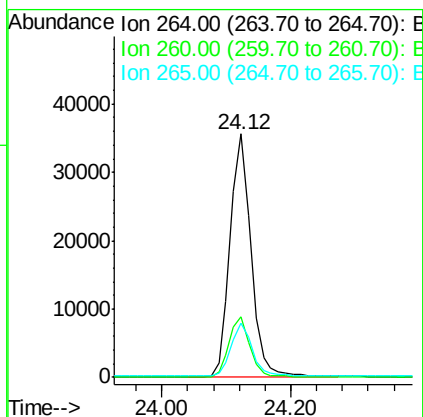
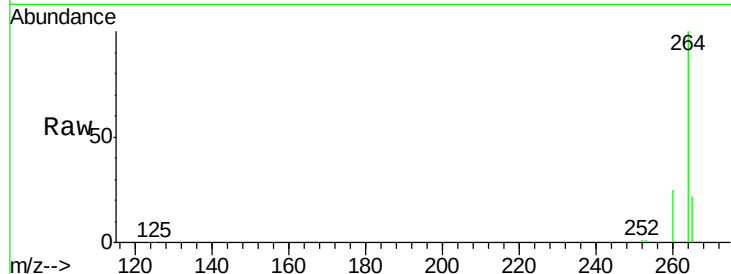
#31
Perylene-d12
 Concen: 5.00 ng
 RT: 24.12 min Scan# 1547
 Delta R.T. 0.00 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	20.1	30.1
265	22.1	17.9	26.9

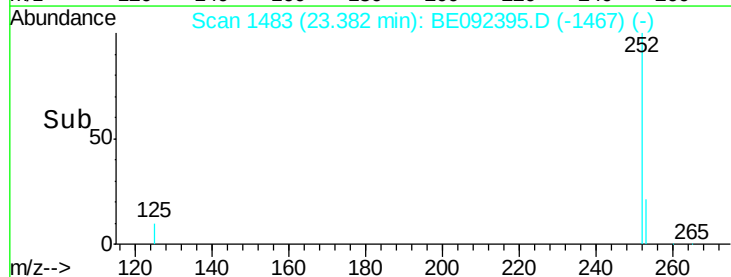
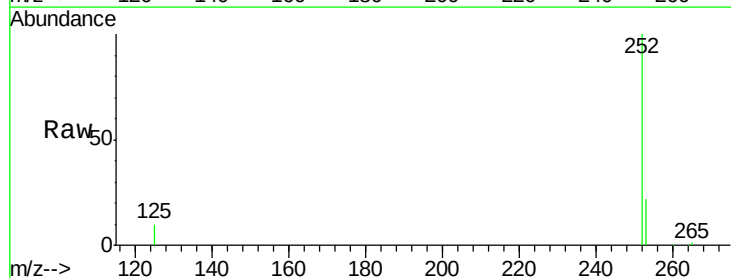
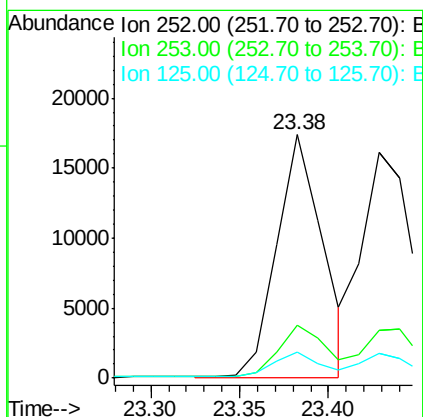
Manual Integrations
 APPROVED

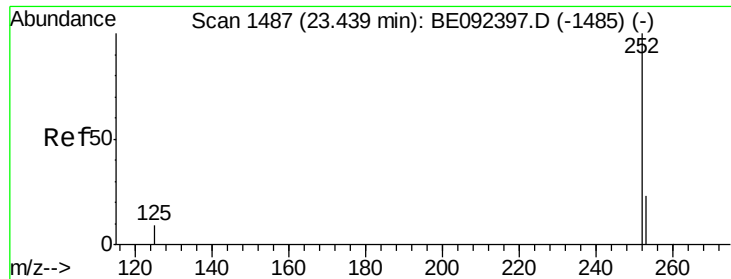
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#32
Benzo(b)fluoranthene
 Concen: 1.54 ng m
 RT: 23.38 min Scan# 1483
 Delta R.T. -0.01 min
 Lab File: BE092395.D
 Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.7	28.1
125	10.5	10.5	15.7





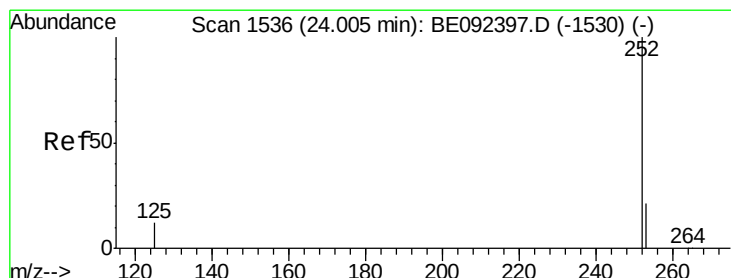
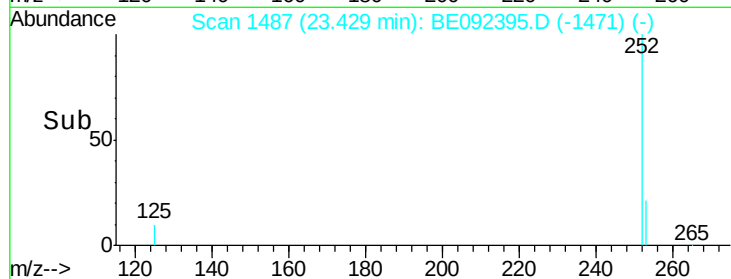
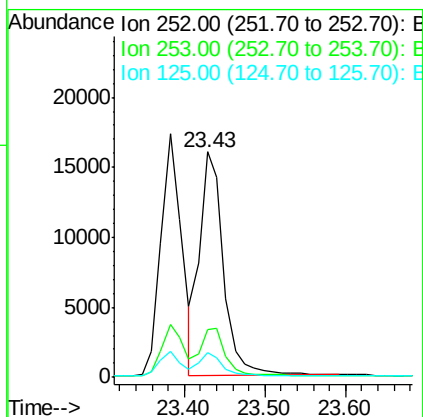
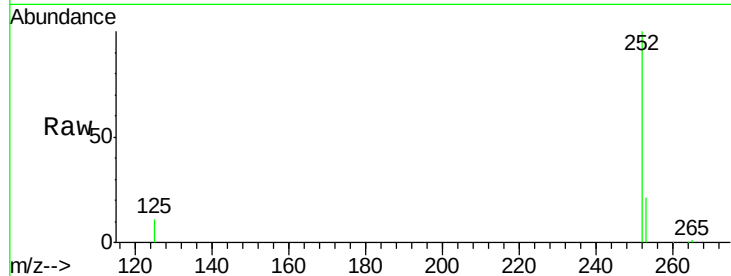
#33
Benzo(k)fluoranthene
Concen: 1.52 ng
RT: 23.43 min Scan# 1487
Delta R.T. -0.01 min
Lab File: BE092395.D
Acq: 22 Sep 2016 14:47

Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	20.3	30.5
125	10.9	9.6	14.4

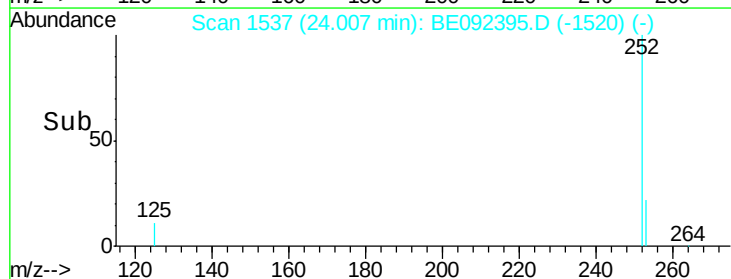
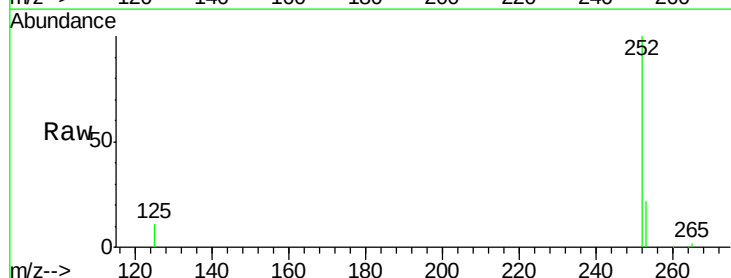
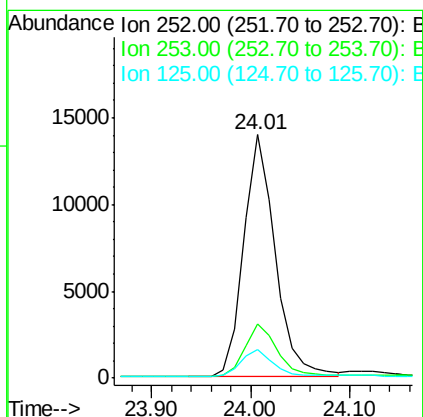
Manual Integrations
APPROVED

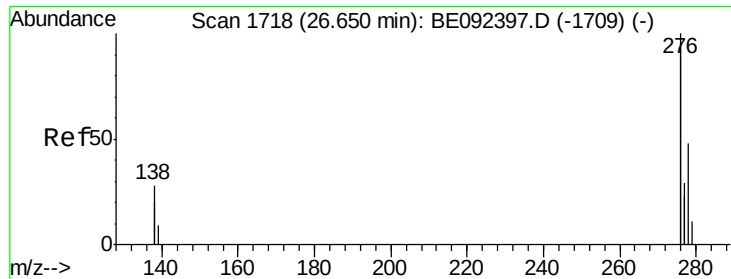
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#34
Benzo(a)pyrene
Concen: 1.52 ng
RT: 24.01 min Scan# 1537
Delta R.T. 0.00 min
Lab File: BE092395.D
Acq: 22 Sep 2016 14:47

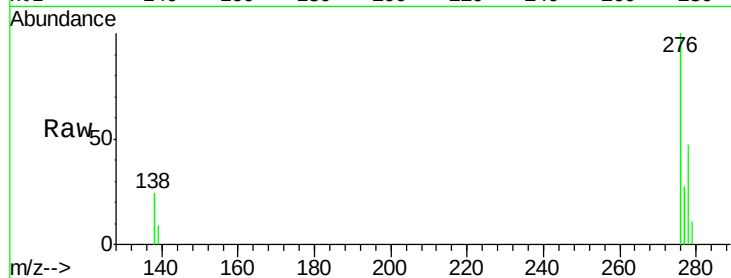
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.0	28.6
125	11.5	11.8	17.8#





#35
Dibenzo(a,h)anthracene
Concen: 1.56 ng
RT: 26.63 min Scan# 1718
Delta R.T. -0.02 min
Lab File: BE092395.D
Acq: 22 Sep 2016 14:47

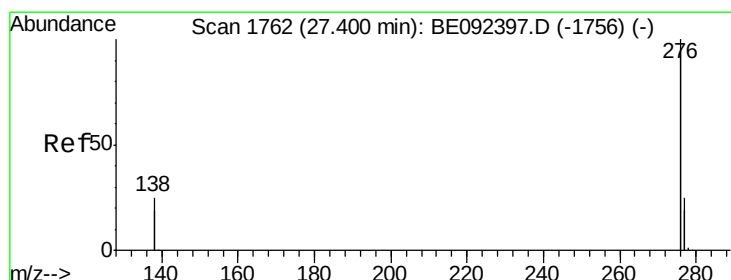
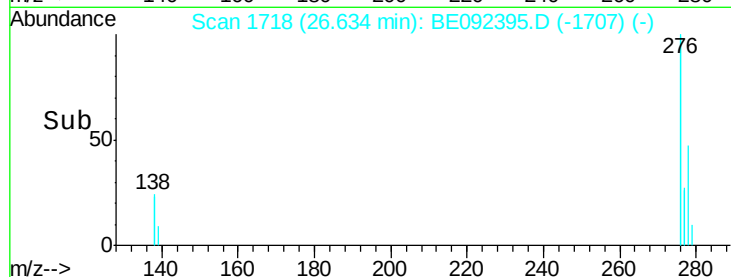
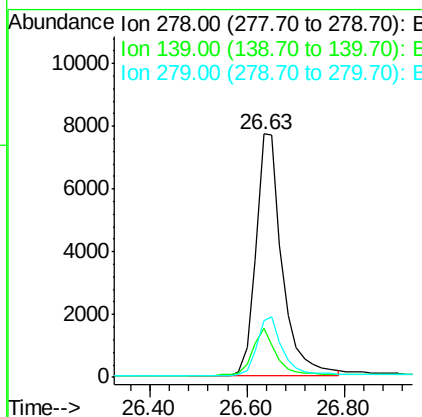
Instrument :
BNA_E
ClientSampleId :
SSTDICC1.6



Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.0	13.8	20.8
279	23.2	21.4	32.2

Manual Integrations
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#36
Benzo(g,h,i)perylene
Concen: 1.55 ng
RT: 27.38 min Scan# 1762
Delta R.T. -0.02 min
Lab File: BE092395.D
Acq: 22 Sep 2016 14:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.6	19.8	29.8
138	24.0	19.8	29.6

