

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM051315\
 Data File : BM001274.D
 Acq On : 13 May 2015 05:04
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTDCCC001EC

Manual Integrations
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Quant Time: May 13 06:46:32 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM051315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 13 05:24:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	13810	5.00	ng	0.00
6) Naphthalene-d8	10.22	136	49161	5.00	ng	0.00
12) Acenaphthene-d10	14.12	164	25713	5.00	ng	0.00
18) Phenanthrene-d10	16.85	188	68823	5.00	ng	0.00
24) Chrysene-d12	21.07	240	46641	5.00	ng	-0.01
30) Perylene-d12	23.18	264	43195	5.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.04	112	2550	0.95	ng	0.00
5) Phenol-d6	6.63	99	2842	0.94	ng	0.00
7) Nitrobenzene-d5	8.60	82	2433	0.88	ng	0.00
13) 2,4,6-Tribromophenol	15.63	330	586	0.75	ng	0.00
14) 2-Fluorobiphenyl	12.73	172	7645	0.96	ng	0.00
26) Terphenyl-d14	19.51	244	5675	0.91	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.92	88	1778	1.04	ng	94
3) n-Nitrosodimethylamine	3.24	42	1382	0.88	ng	# 99
8) Nitrobenzene	8.64	77	2495	0.86	ng	99
9) Naphthalene	10.27	128	10181	0.97	ng	99
10) Hexachlorobutadiene	10.56	225	1942	0.95	ng	98
11) 2-Methylnaphthalene	11.90	142	6437	0.95	ng	95
15) Acenaphthylene	13.83	152	9869	0.93	ng	100
16) Acenaphthene	14.18	154	6399	0.94	ng	99
17) Fluorene	15.17	166	5105	0.83	ng	# 18
19) Hexachlorobenzene	16.18	284	3502	0.79	ng	# 93
20) Pentachlorophenol	16.52	266	683	0.91	ng	95
21) Phenanthrene	16.88	178	8559	0.82	ng	# 97
22) Anthracene	16.98	178	8392	0.82	ng	# 99
23) Fluoranthene	18.93	202	12351	0.75	ng	100
25) Pyrene	19.30	202	13117	0.91	ng	100
27) Benzo(a)anthracene	21.06	228	11249	0.89	ng	97
28) Chrysene	21.10	228	12147m	0.95	ng	
29) Indeno(1,2,3-cd)pyrene	25.27	276	12935	0.99	ng	100
31) Benzo(b)fluoranthene	22.56	252	12272	0.97	ng	97
32) Benzo(k)fluoranthene	22.60	252	10317	0.86	ng	97
33) Benzo(a)pyrene	23.09	252	9960	0.91	ng	97
34) Dibenzo(a,h)anthracene	25.28	278	9973	0.97	ng	99
35) Benzo(g,h,i)perylene	25.90	276	11047	0.98	ng	99

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

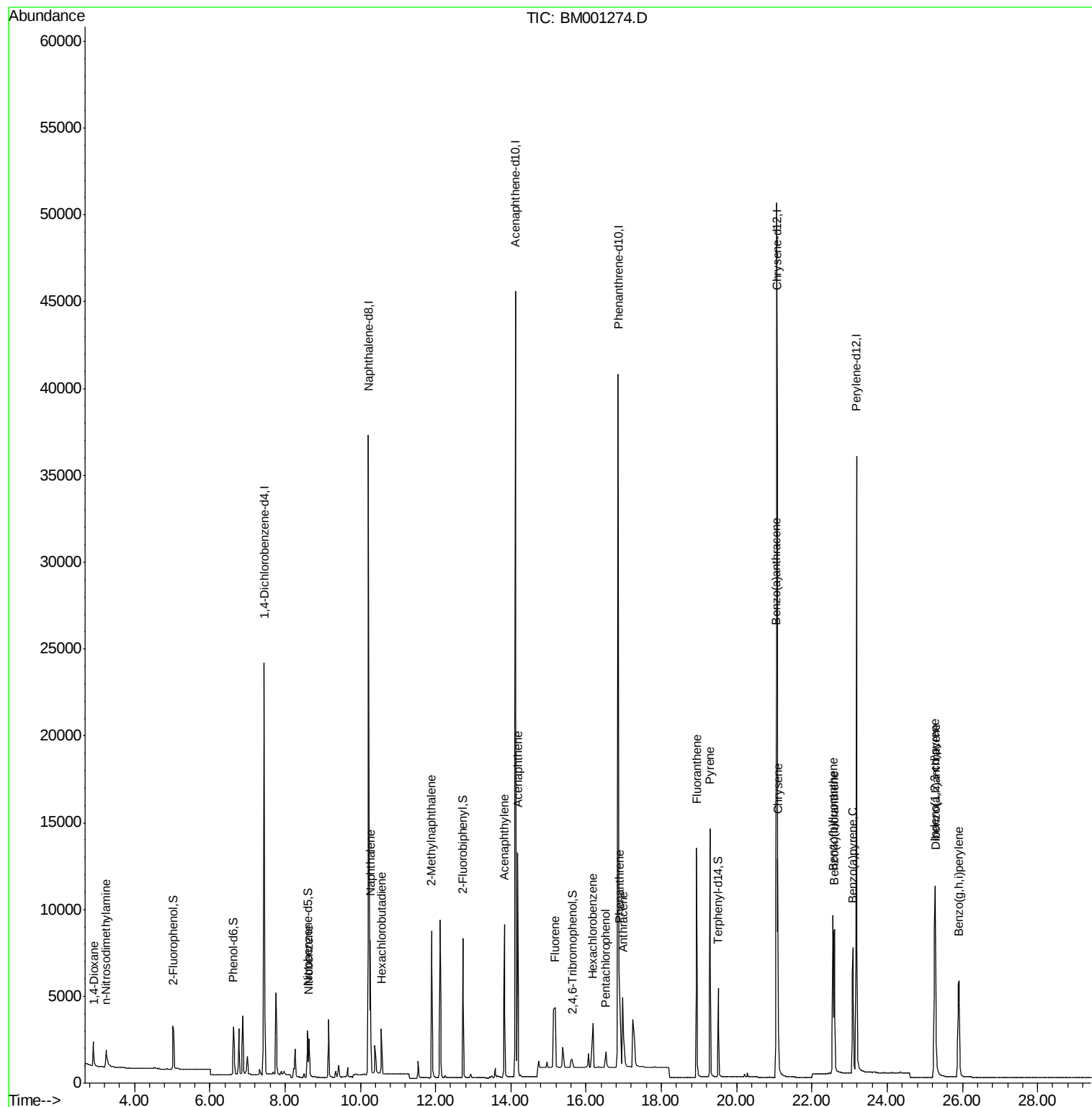
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM051315\
Data File : BM001274.D
Acq On : 13 May 2015 05:04
Operator : TP/IZ
Sample : SSTDCCC001
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 13 05:24:15 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.45 min Scan# 309

Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Instrument :

BNA_M

ClientSampleId :

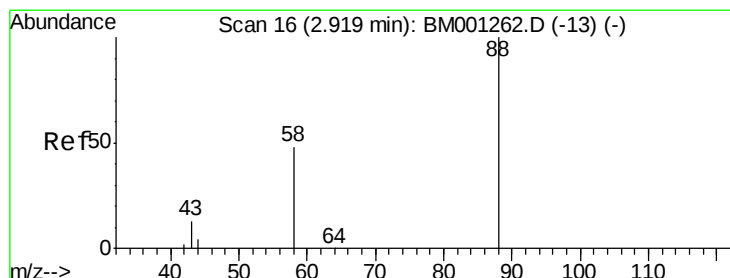
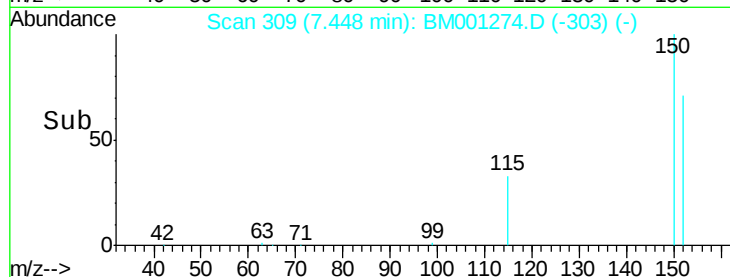
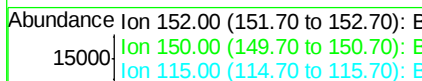
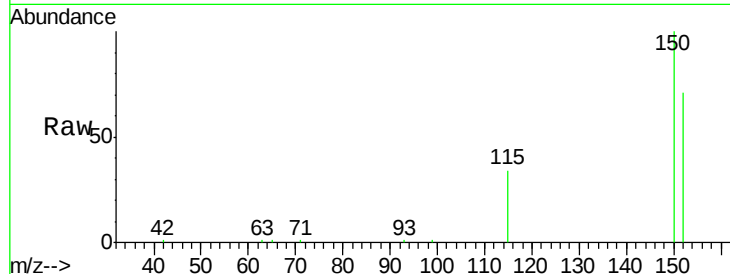
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Tgt Ion:	152	Resp:	13810
Ion Ratio	Lower	Upper	
152	100		
150	140.8	114.6	172.0
115	47.5	39.3	58.9



#2

1,4-Dioxane

Concen: 1.04 ng

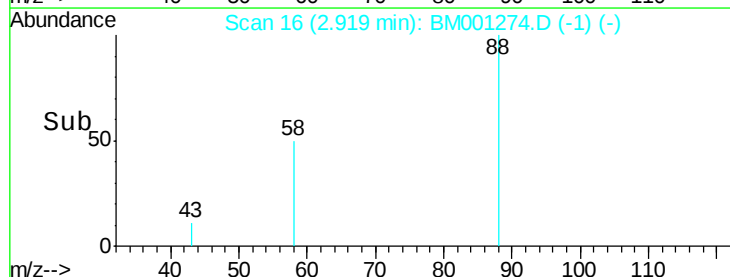
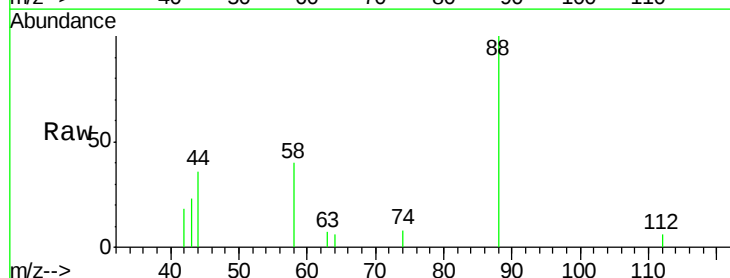
RT: 2.92 min Scan# 16

Delta R.T. 0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Tgt Ion:	88	Resp:	1778
Ion Ratio	Lower	Upper	
88	100		
58	53.4	39.0	58.6
43	28.0	20.2	30.2





#3

n-Nitrosodimethylamine

Concen: 0.88 ng

RT: 3.24 min Scan# 37

Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Instrument :

BNA_M

ClientSampleId :

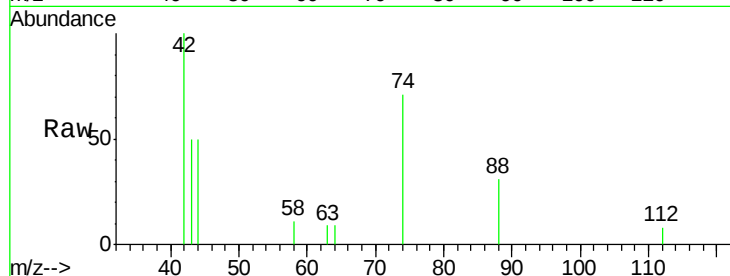
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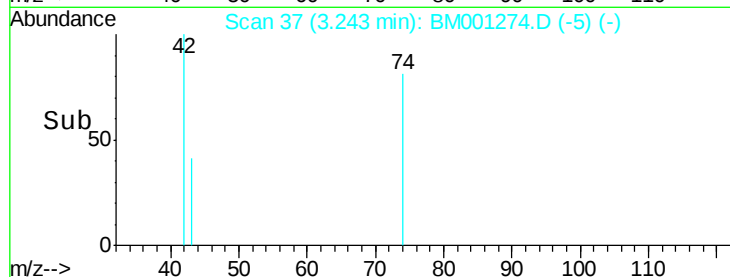
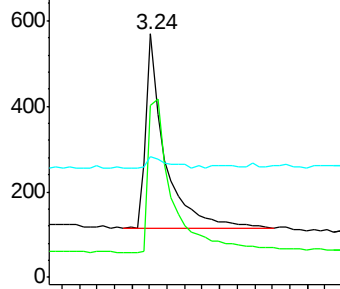
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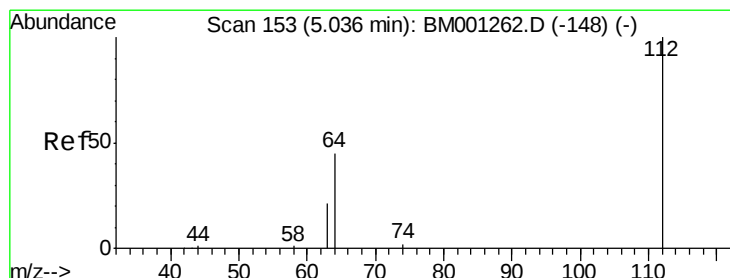
Tgt Ion:	42	Resp:	1382
Ion	Ratio	Lower	Upper
42	100		
74	101.7	82.1	123.1
44	5.9	3.0	4.4#



Abundance Ion 42.00 (41.70 to 42.70): BM001262.D (-33) (-)



Time-->



#4

2-Fluorophenol

Concen: 0.95 ng

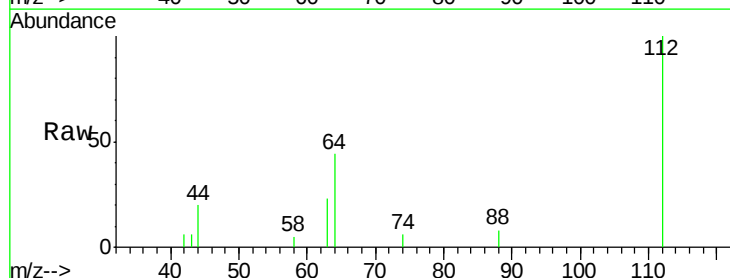
RT: 5.04 min Scan# 153

Delta R.T. -0.00 min

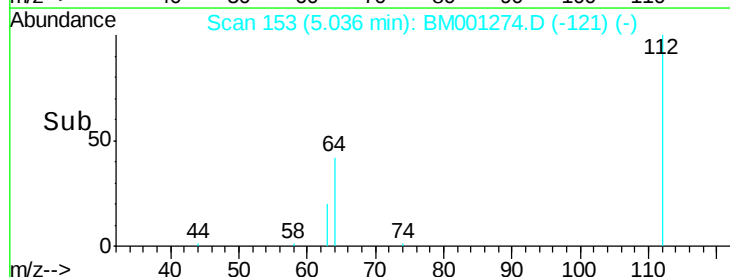
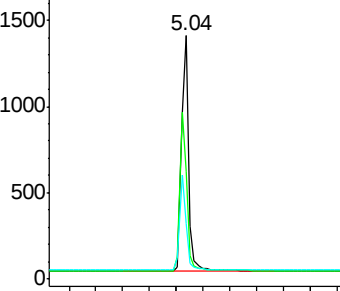
Lab File: BM001274.D

Acq: 13 May 2015 05:04

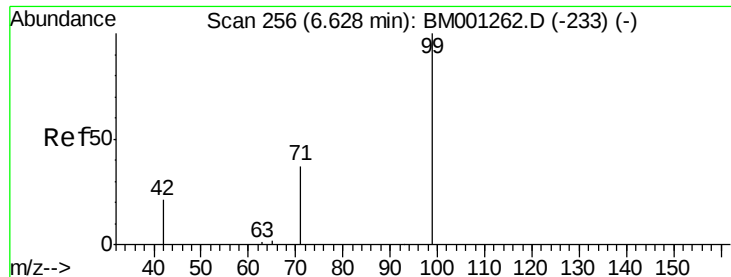
Tgt Ion:	112	Resp:	2550
Ion	Ratio	Lower	Upper
112	100		
64	65.2	50.8	76.2
63	35.5	28.2	42.4



Abundance Ion 112.00 (111.70 to 112.70): BM001262.D (-148) (-)



Time-->



#5

Phenol-d6

Concen: 0.94 ng

RT: 6.63 min Scan# 256

Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Instrument :

BNA_M

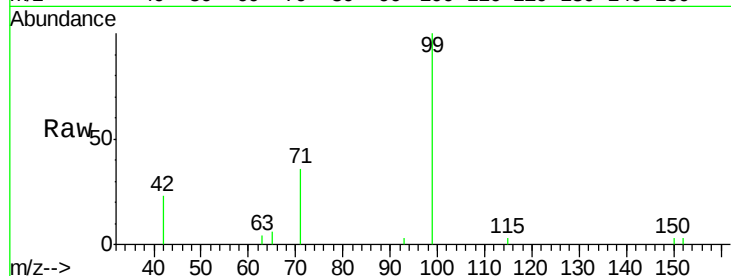
ClientSampleId :

SSTDCCC001EC

Tgt Ion:	99	Resp:	2842
Ion Ratio	Lower	Upper	
99	100		
42	24.7	19.9	29.9
71	34.0	28.0	42.0

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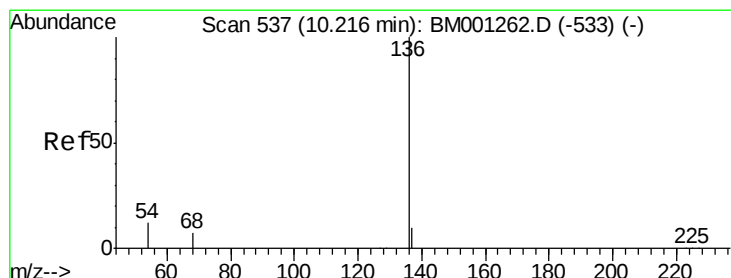
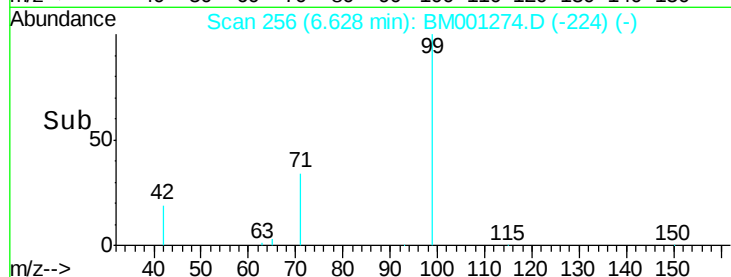


Abundance Ion 99.00 (98.70 to 99.70): BM001262.D (-233) (-)

Ion 42.00 (41.70 to 42.70): BM001262.D (-233) (-)

Ion 71.00 (70.70 to 71.70): BM001262.D (-233) (-)

Time-->



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.22 min Scan# 537

Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Tgt Ion:	136	Resp:	49161
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.2	12.4
54	10.3	9.5	14.3
68	6.2	5.5	8.3

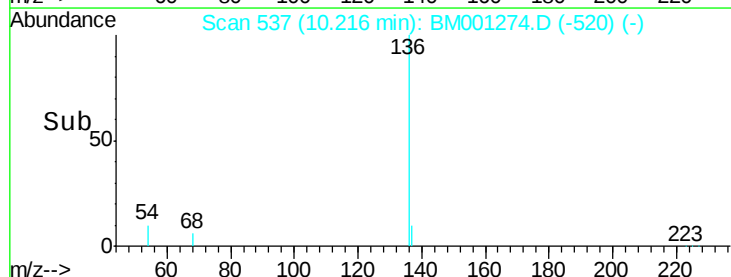
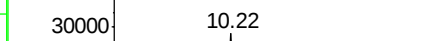
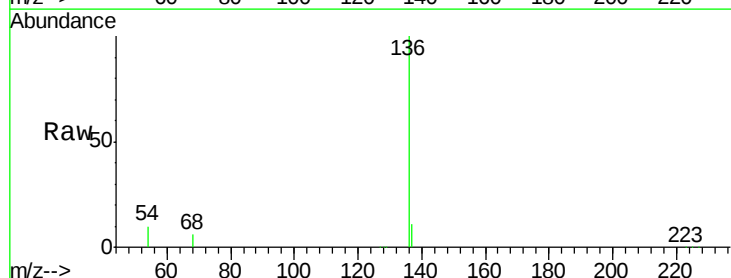
Abundance Ion 136.00 (135.70 to 136.70): BM001262.D (-533) (-)

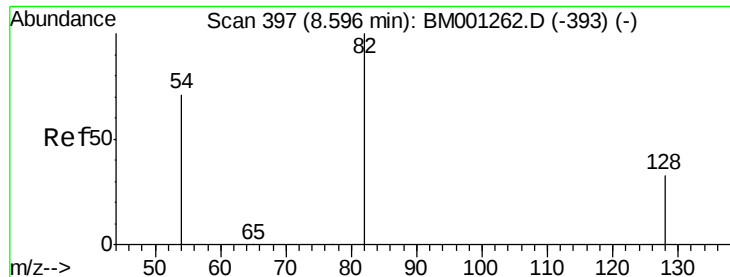
Ion 137.00 (136.70 to 137.70): BM001262.D (-533) (-)

Ion 54.00 (53.70 to 54.70): BM001262.D (-533) (-)

Ion 68.00 (67.70 to 68.70): BM001262.D (-533) (-)

Time-->





#7

Nitrobenzene-d5

Concen: 0.88 ng

RT: 8.60 min Scan# 397

Delta R.T. 0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Instrument :

BNA_M

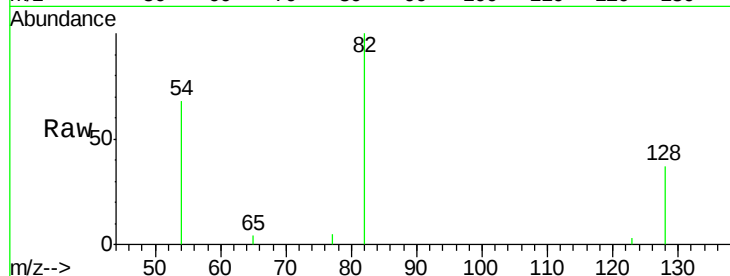
ClientSampleId :

SSTDCCC001EC

Tgt Ion:	82	Resp:	2433
Ion Ratio	Lower	Upper	
82	100		
128	37.1	28.0	42.0
54	67.5	57.3	85.9

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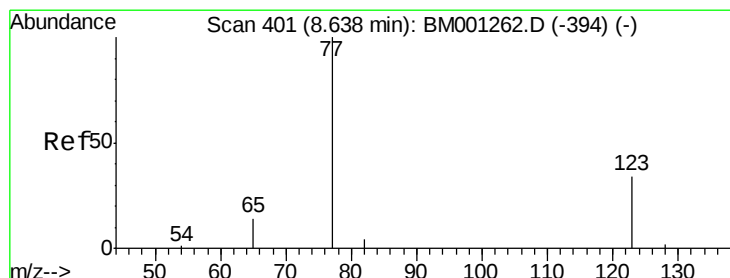
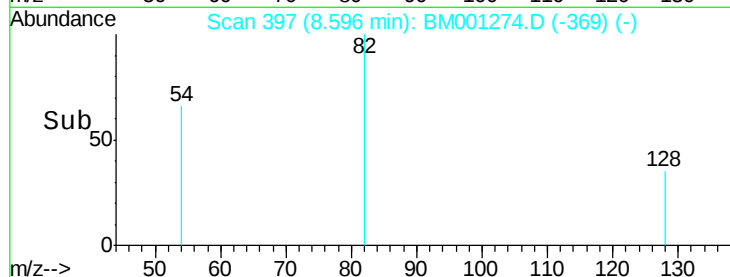
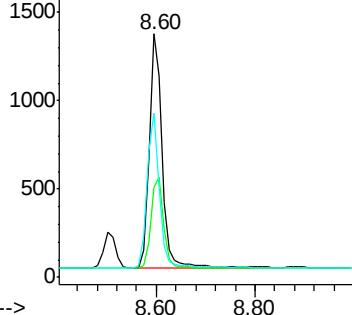
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Abundance Ion 82.00 (81.70 to 82.70): BM001274.D (-369) (-)

Ion 128.00 (127.70 to 128.70): BM001274.D (-369) (-)

Ion 54.00 (53.70 to 54.70): BM001274.D (-369) (-)



#8

Nitrobenzene

Concen: 0.86 ng

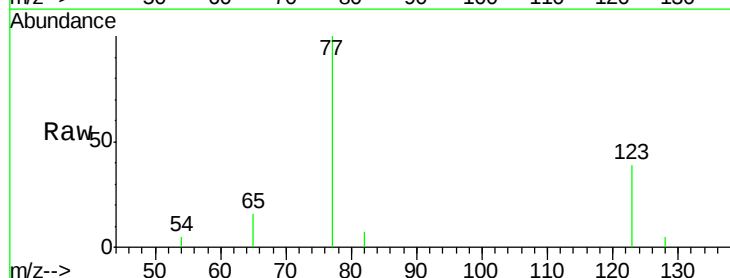
RT: 8.64 min Scan# 401

Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

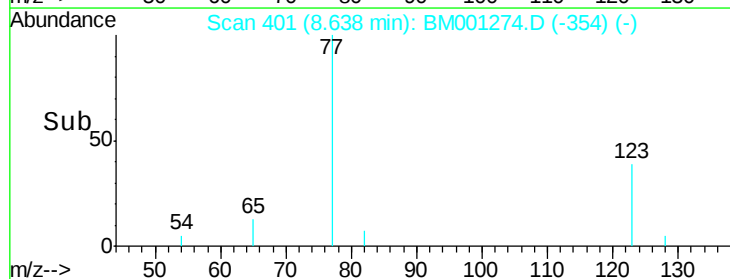
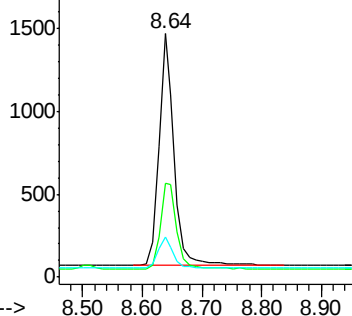
Tgt Ion:	77	Resp:	2495
Ion Ratio	Lower	Upper	
77	100		
123	41.3	33.4	50.2
65	13.5	10.6	15.8

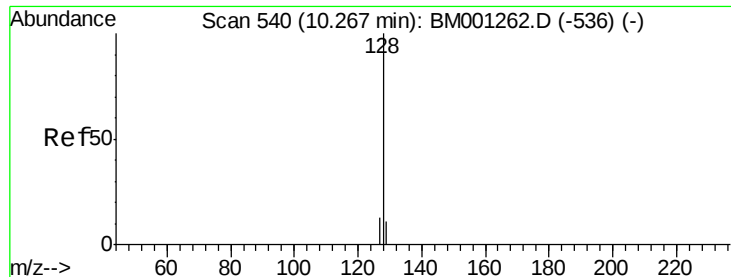


Abundance Ion 77.00 (76.70 to 77.70): BM001274.D (-354) (-)

Ion 123.00 (122.70 to 123.70): BM001274.D (-354) (-)

Ion 65.00 (64.70 to 65.70): BM001274.D (-354) (-)





#9

Naphthalene

Concen: 0.97 ng

RT: 10.27 min Scan# 540

Delta R.T. -0.00 min

Lab File: BM001274.D

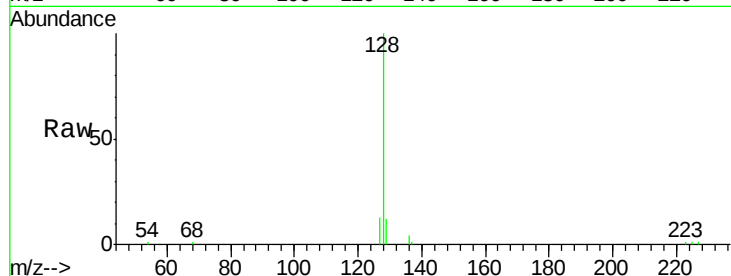
Acq: 13 May 2015 05:04

Instrument :

BNA_M

ClientSampleId :

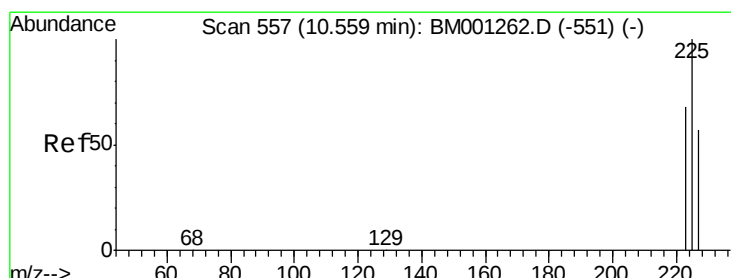
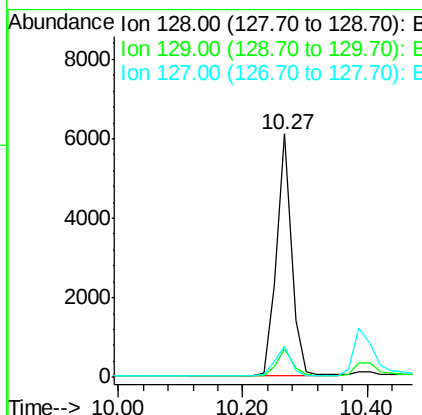
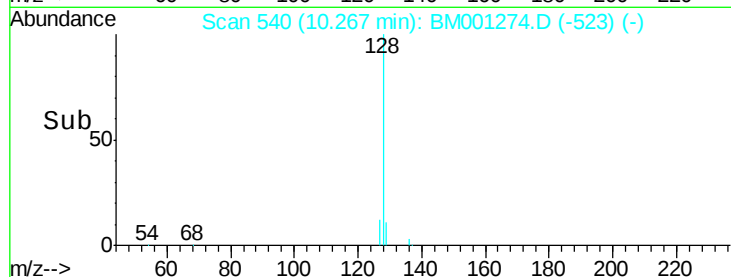
SSTDCCC001EC



Tgt Ion:	128	Resp:	10181
Ion Ratio	Lower	Upper	
128	100		
129	11.8	9.1	13.7
127	13.0	10.6	16.0

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#10

Hexachlorobutadiene

Concen: 0.95 ng

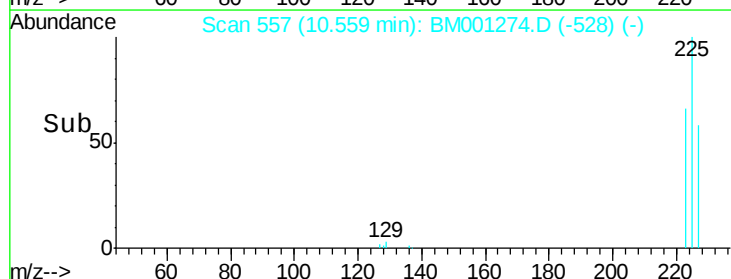
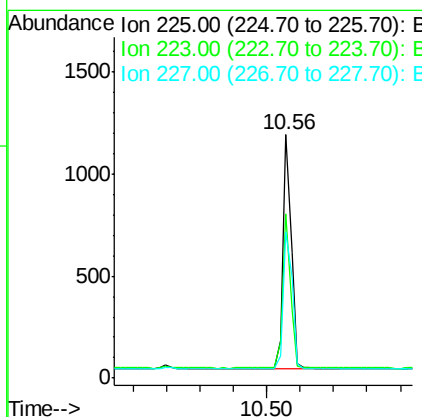
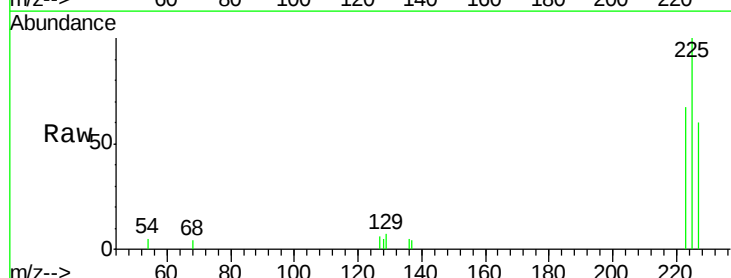
RT: 10.56 min Scan# 557

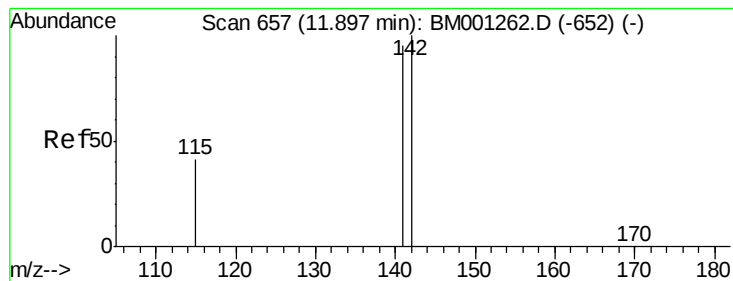
Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Tgt Ion:	225	Resp:	1942
Ion Ratio	Lower	Upper	
225	100		
223	64.0	49.6	74.4
227	63.6	51.4	77.2





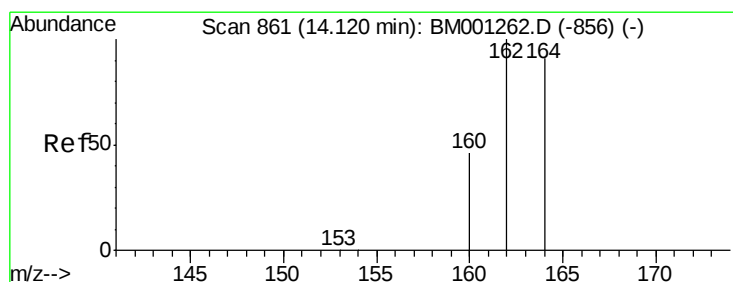
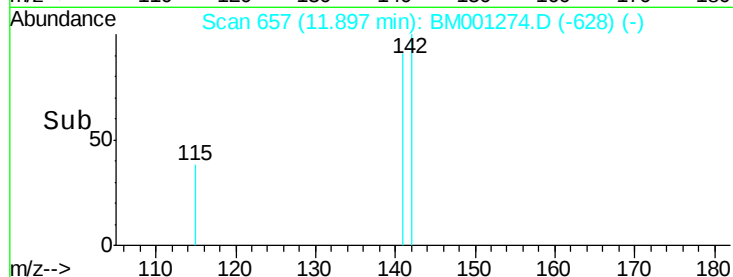
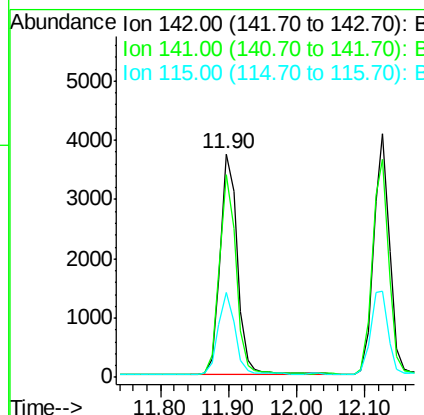
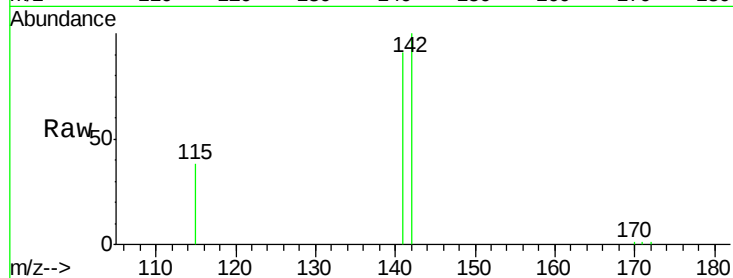
#11
2-Methylnaphthalene
Concen: 0.95 ng
RT: 11.90 min Scan# 657
Delta R.T. -0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Instrument :
BNA_M
ClientSampleId :
SSTDCCC001EC

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.9	76.1	114.1
115	38.2	33.1	49.7

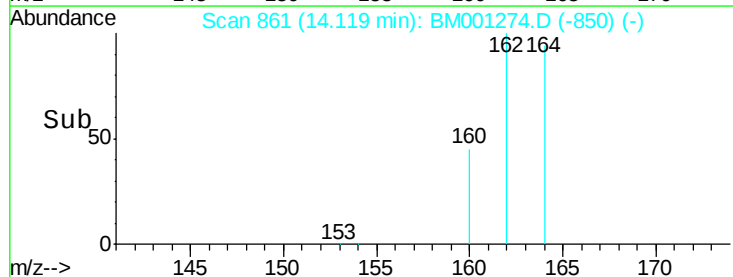
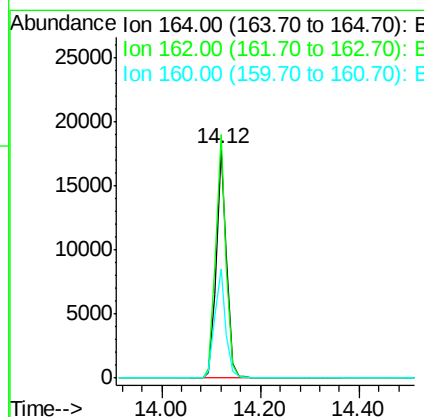
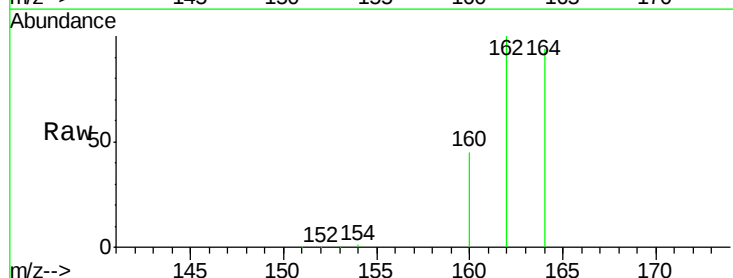
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.12 min Scan# 861
Delta R.T. -0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.7	87.9	131.9
160	48.1	40.9	61.3





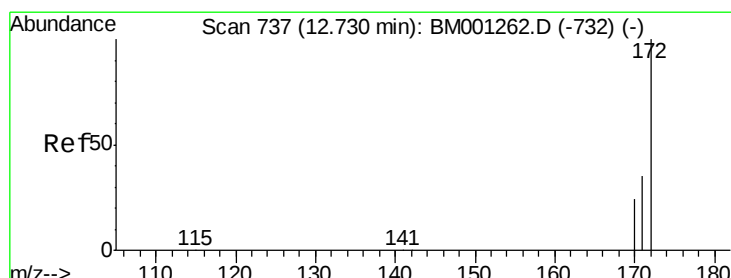
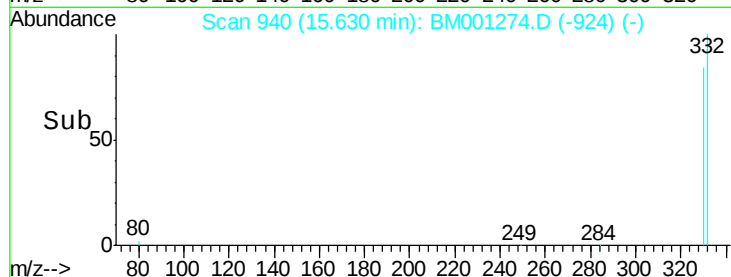
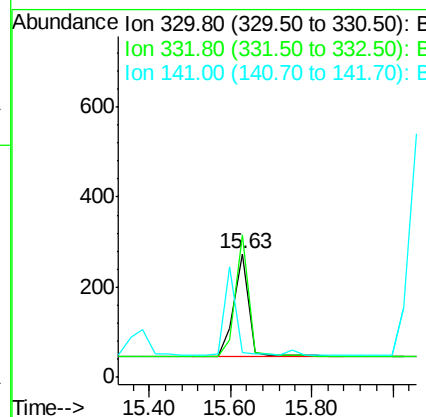
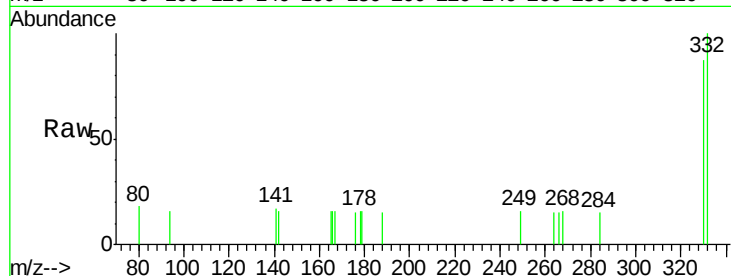
#13
 2,4,6-Tribromophenol
 Concen: 0.75 ng
 RT: 15.63 min Scan# 940
 Delta R.T. 0.00 min
 Lab File: BM001274.D
 Acq: 13 May 2015 05:04

Instrument :
 BNA_M
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion	Ratio	Lower	Upper
330	100		
332	104.1	89.0	133.4
141	0.0	0.0	0.0

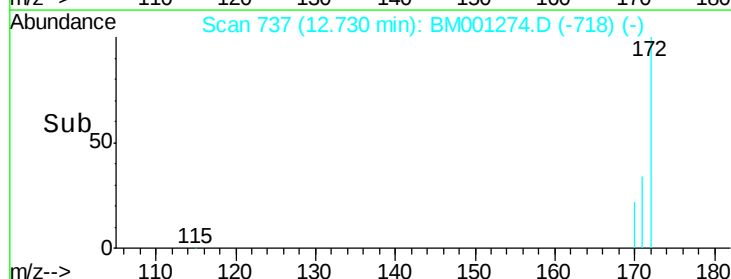
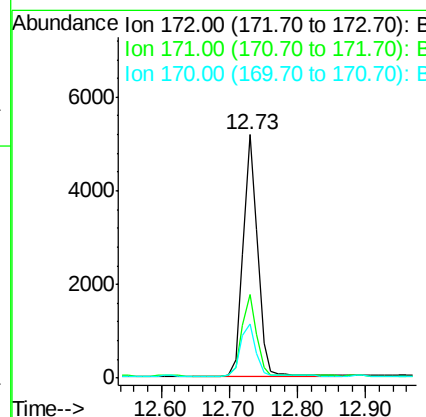
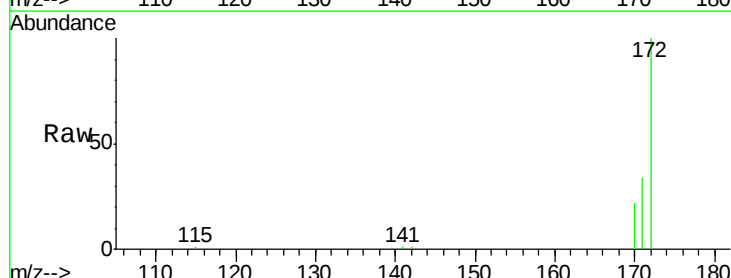
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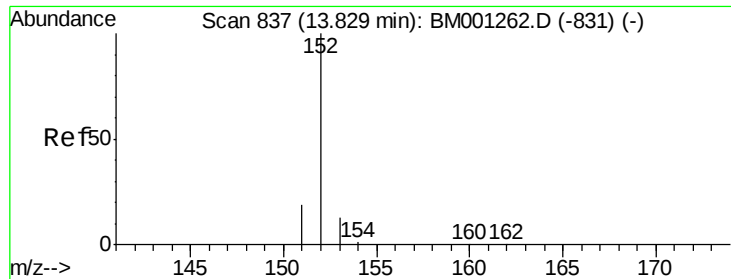
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#14
 2-Fluorobiphenyl
 Concen: 0.96 ng
 RT: 12.73 min Scan# 737
 Delta R.T. -0.00 min
 Lab File: BM001274.D
 Acq: 13 May 2015 05:04

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.7	43.1
170	22.3	19.5	29.3





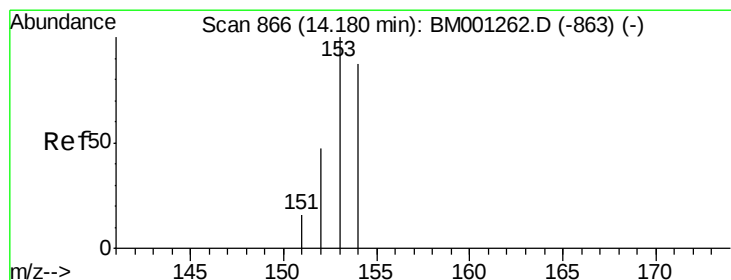
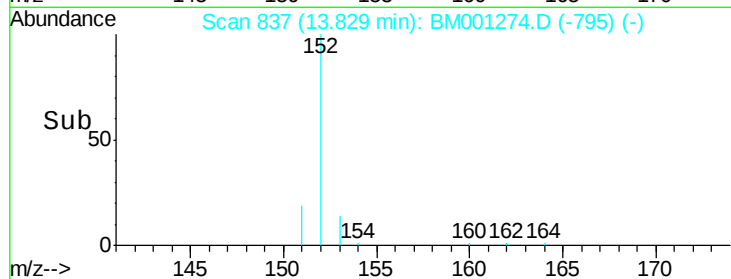
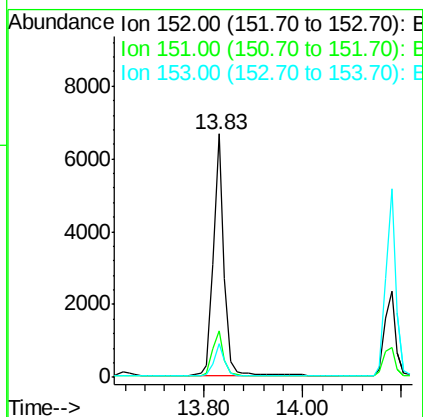
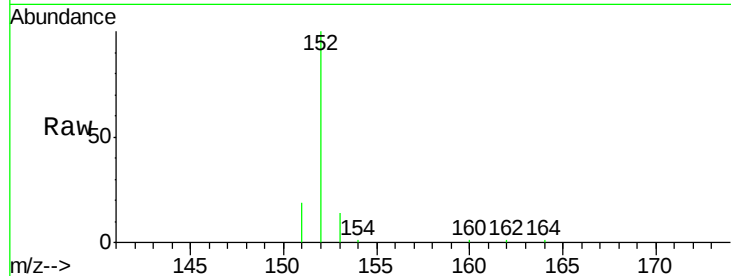
#15
Acenaphthylene
Concen: 0.93 ng
RT: 13.83 min Scan# 837
Delta R.T. -0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Instrument :
BNA_M
ClientSampleId :
SSTDCCC001EC

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.7	15.0	22.4
153	12.9	10.1	15.1

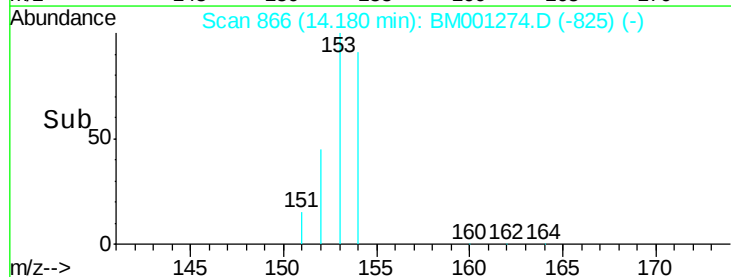
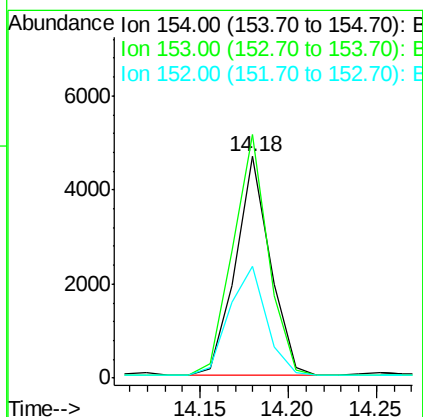
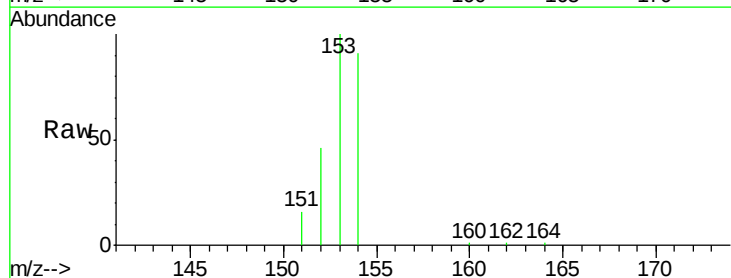
Manual Integrations
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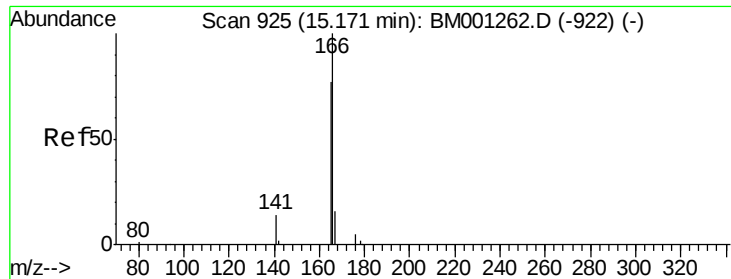
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#16
Acenaphthene
Concen: 0.94 ng
RT: 14.18 min Scan# 866
Delta R.T. -0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.9	91.4	137.2
152	54.2	44.3	66.5





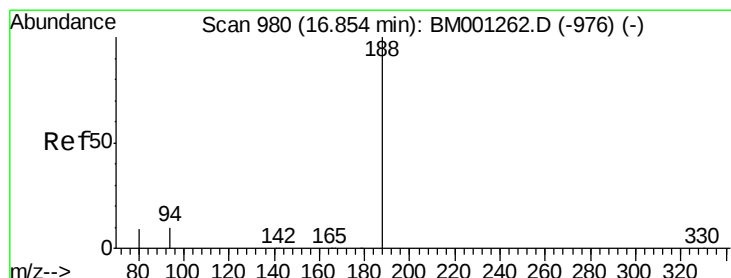
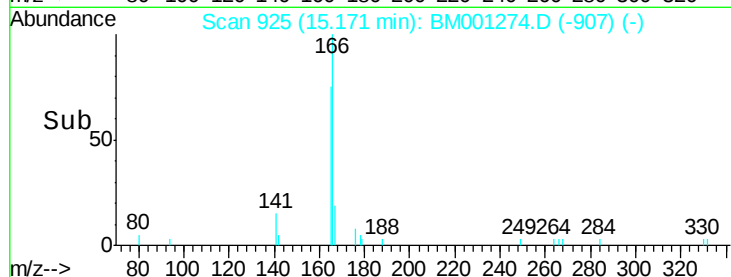
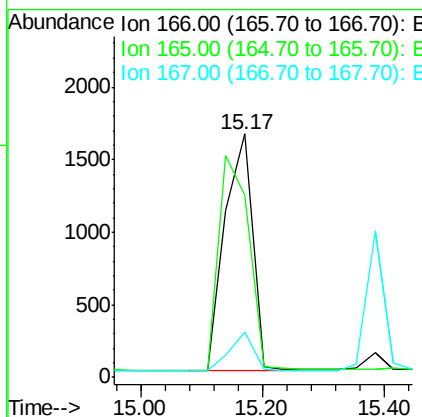
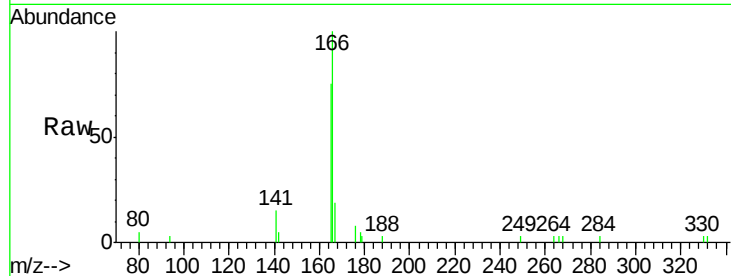
#17
Fluorene
 Concen: 0.83 ng
 RT: 15.17 min Scan# 925
 Delta R.T. -0.00 min
 Lab File: BM001274.D
 Acq: 13 May 2015 05:04

Instrument :
 BNA_M
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion	Ratio	Lower	Upper
166	100		
165	0.0	70.6	106.0#
167	13.8	11.3	16.9

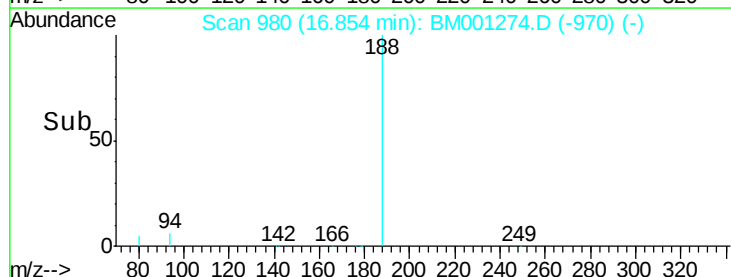
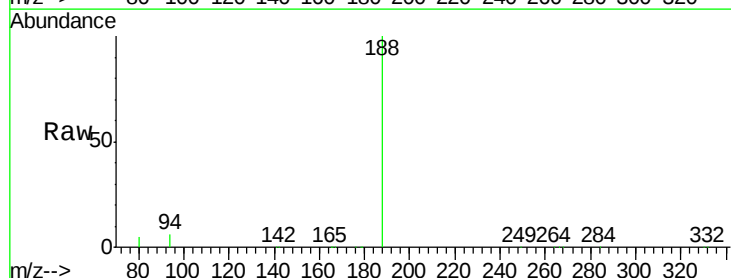
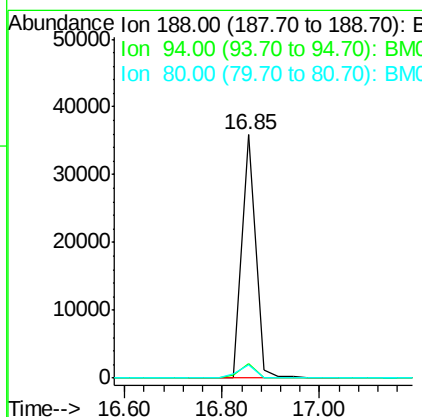
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.85 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: BM001274.D
 Acq: 13 May 2015 05:04

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.9	7.8	11.8#
80	5.4	7.5	11.3#





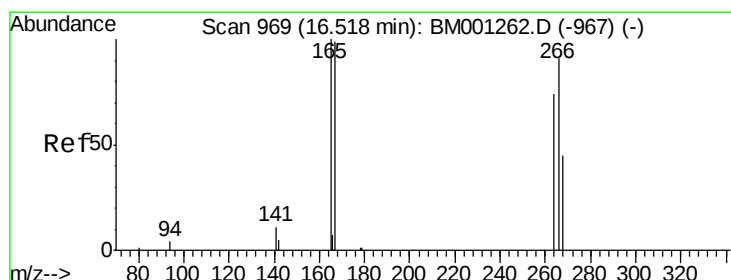
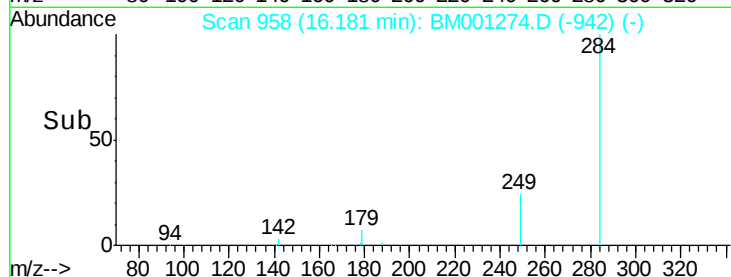
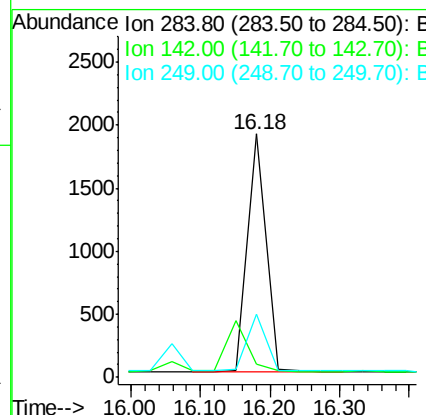
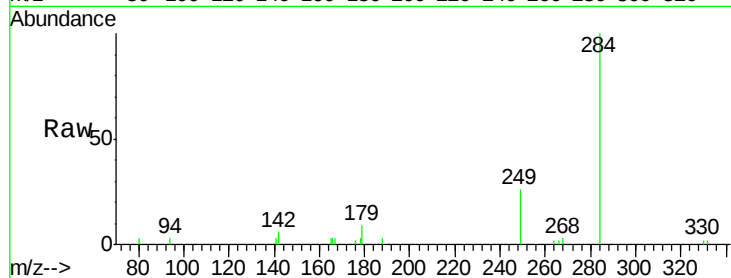
#19
Hexachlorobenzene
Concen: 0.79 ng
RT: 16.18 min Scan# 958
Delta R.T. -0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Instrument :
BNA_M
ClientSampleId :
SSTDCCC001EC

Tgt Ion	Ratio	Lower	Upper
284	100		
142	0.0	0.0	0.0
249	25.0	22.7	34.1

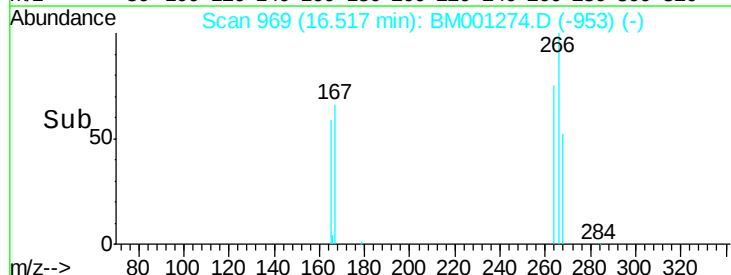
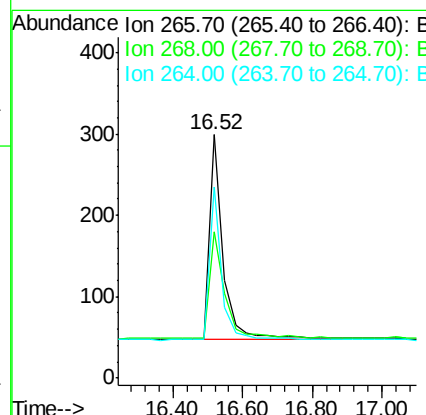
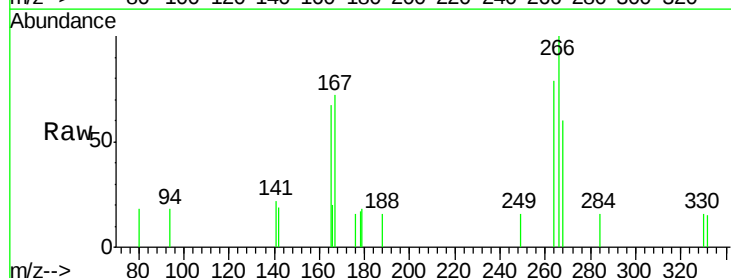
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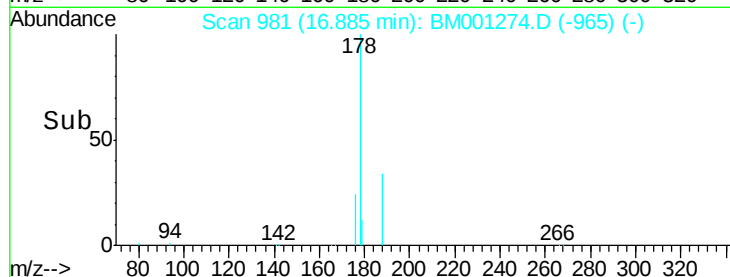
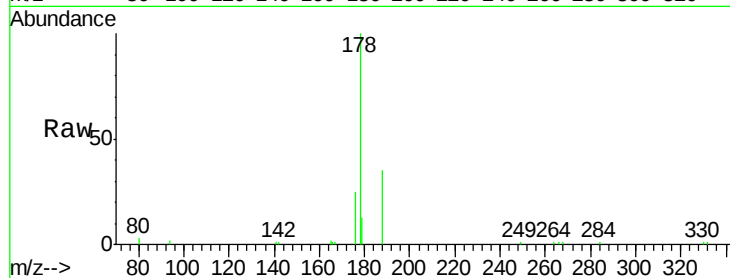
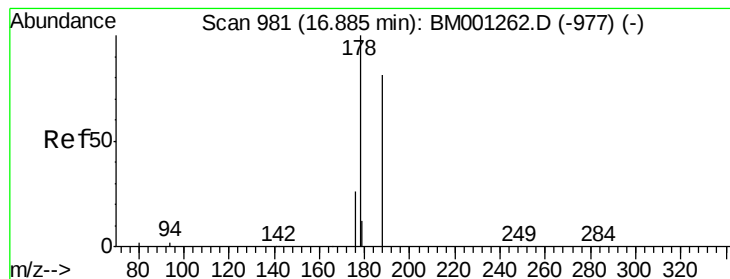
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#20
Pentachlorophenol
Concen: 0.91 ng
RT: 16.52 min Scan# 969
Delta R.T. 0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Tgt Ion	Ratio	Lower	Upper
266	100		
268	60.2	49.4	74.0
264	78.6	67.8	101.6





#21

Phenanthrene

Concen: 0.82 ng

RT: 16.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Tgt Ion:	178	Resp:	8559
Ion Ratio	Lower	Upper	
178	100		
176	21.2	15.9	23.9
179	14.7	0.0	0.0#

Instrument :

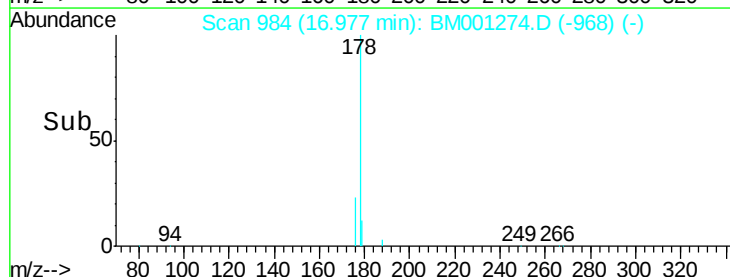
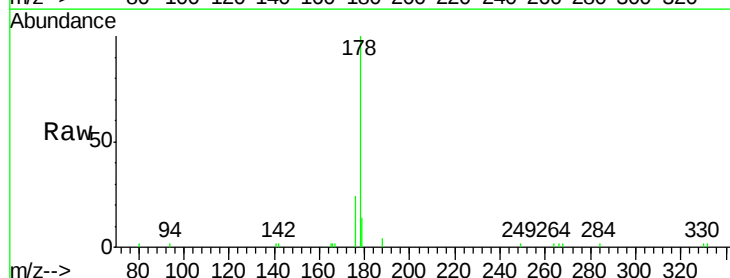
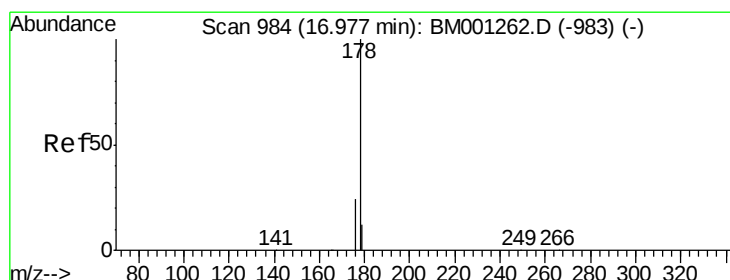
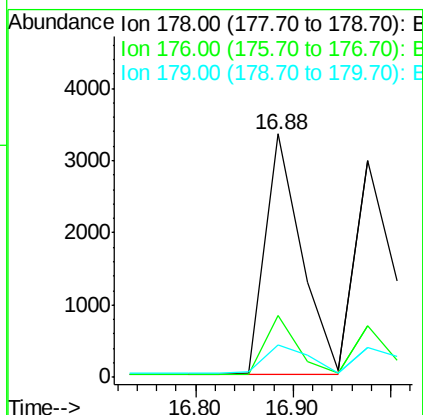
BNA_M

ClientSampleId :

SSTDCCC001EC

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#22

Anthracene

Concen: 0.82 ng

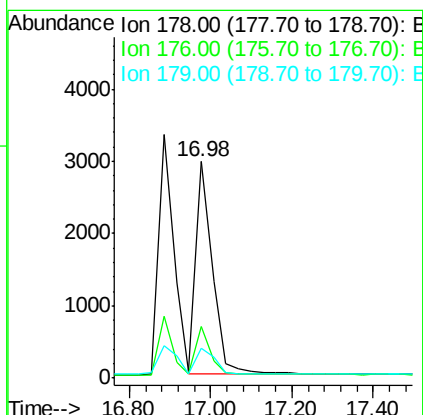
RT: 16.98 min Scan# 984

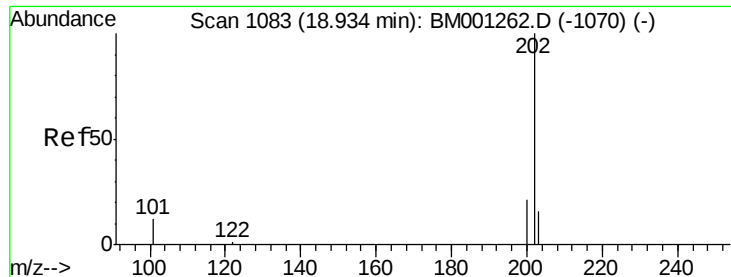
Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Tgt Ion:	178	Resp:	8392
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.3	22.9
179	14.7	0.0	0.0#





#23

Fluoranthene

Concen: 0.75 ng

RT: 18.93 min Scan# 1083

Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Instrument :

BNA_M

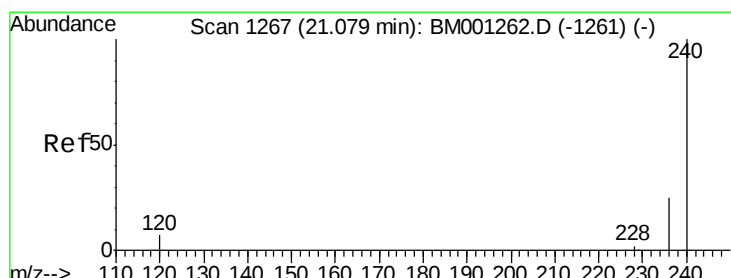
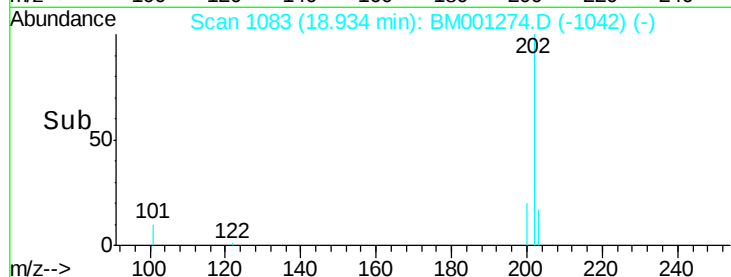
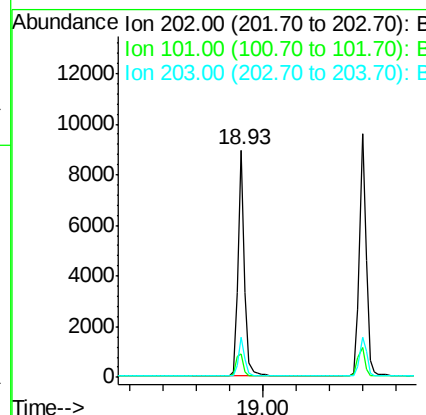
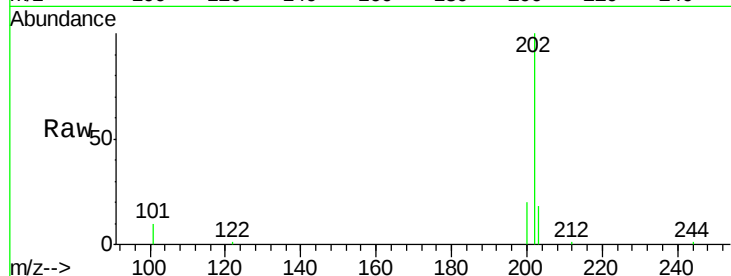
ClientSampleId :

SSTDCCC001EC

Tgt Ion:	202	Resp:	12351
Ion Ratio	Lower	Upper	
202	100		
101	11.6	9.1	13.7
203	17.1	13.8	20.6

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#24

Chrysene-d12

Concen: 5.00 ng

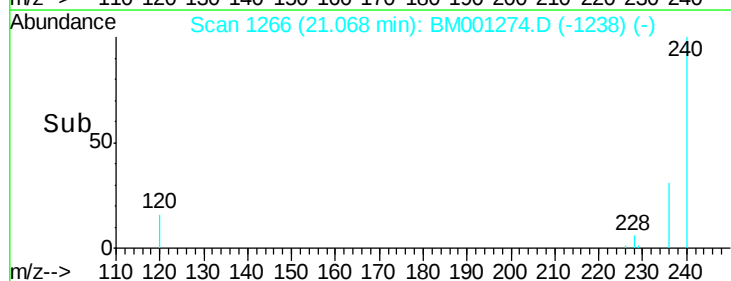
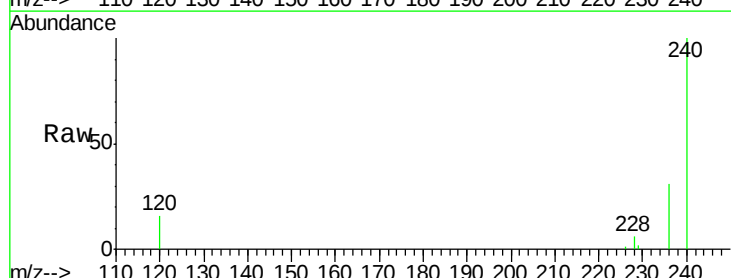
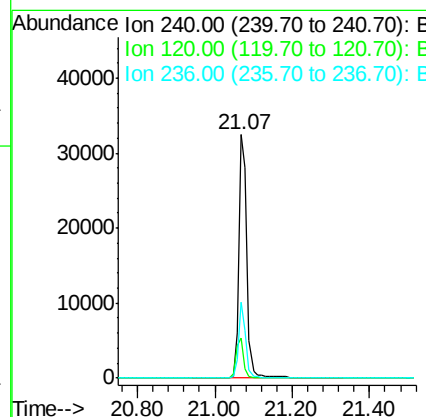
RT: 21.07 min Scan# 1266

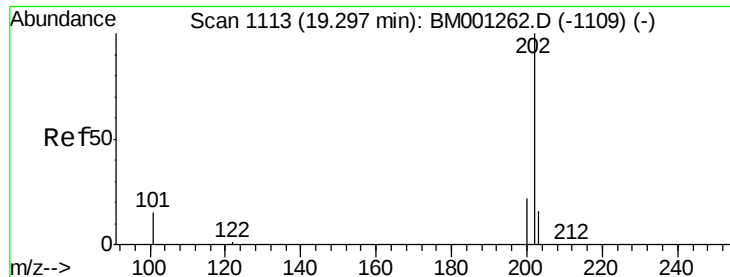
Delta R.T. -0.01 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Tgt Ion:	240	Resp:	46641
Ion Ratio	Lower	Upper	
240	100		
120	16.4	5.5	8.3#
236	31.0	20.4	30.6#





#25

Pyrene

Concen: 0.91 ng

RT: 19.30 min Scan# 1113

Delta R.T. -0.00 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

Instrument :

BNA_M

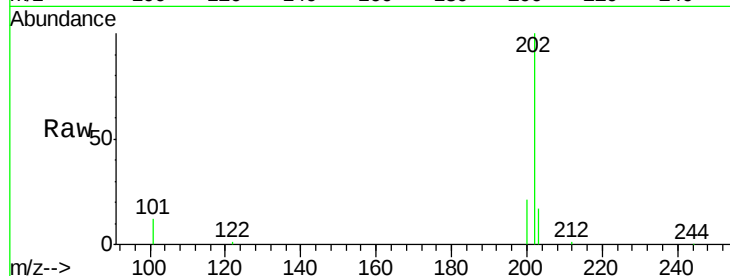
ClientSampleId :

SSTDCCC001EC

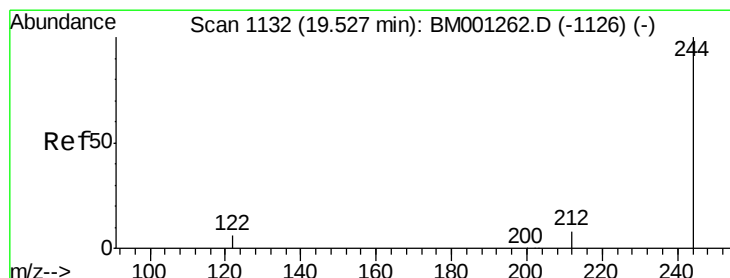
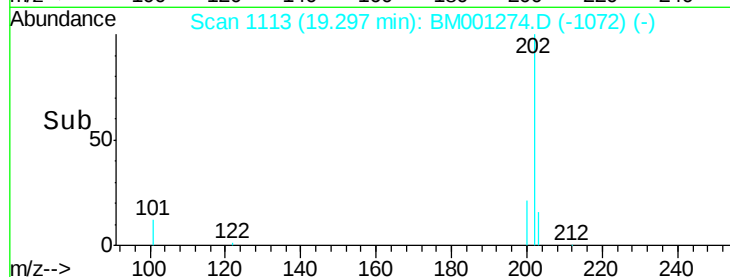
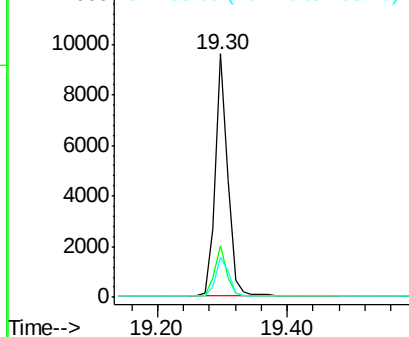
Tgt Ion:	202	Resp:	13117
Ion Ratio	Lower	Upper	
202	100		
200	20.6	16.4	24.6
203	17.3	13.9	20.9

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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



#26

Terphenyl-d14

Concen: 0.91 ng

RT: 19.51 min Scan# 1131

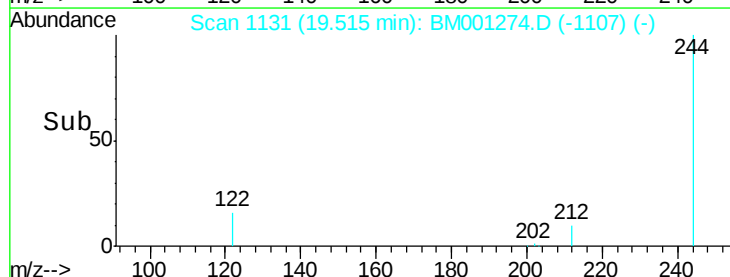
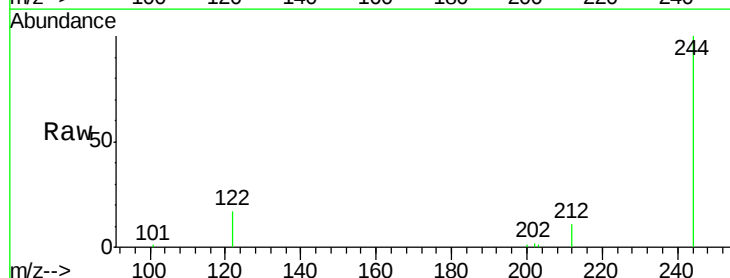
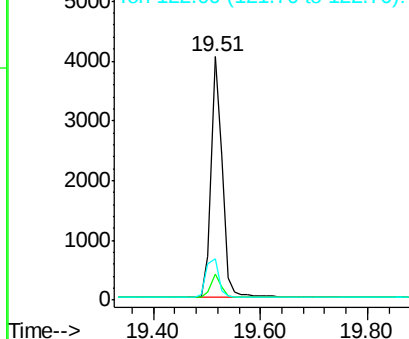
Delta R.T. -0.01 min

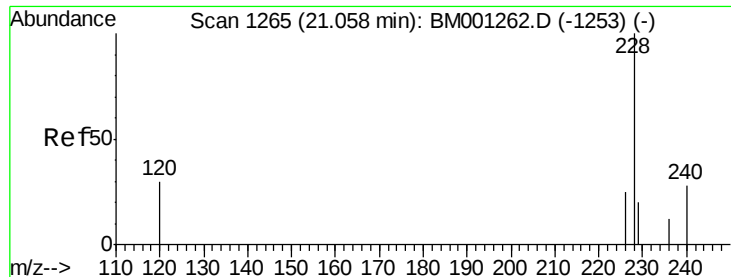
Lab File: BM001274.D

Acq: 13 May 2015 05:04

Tgt Ion:	244	Resp:	5675
Ion Ratio	Lower	Upper	
244	100		
212	10.9	7.2	10.8#
122	17.0	5.6	8.4#

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#27

Benzo(a)anthracene

Concen: 0.89 ng

RT: 21.06 min Scan# 1265

Delta R.T. -0.00 min

Lab File: BM001274.D

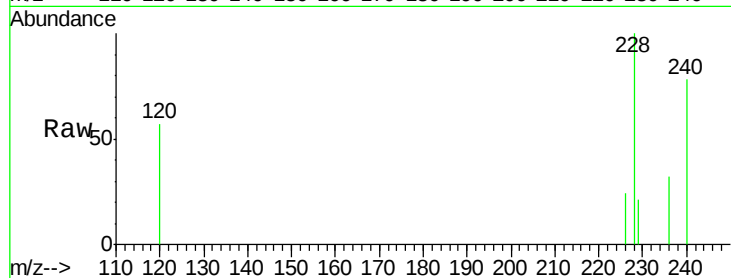
Acq: 13 May 2015 05:04

Instrument :

BNA_M

ClientSampleId :

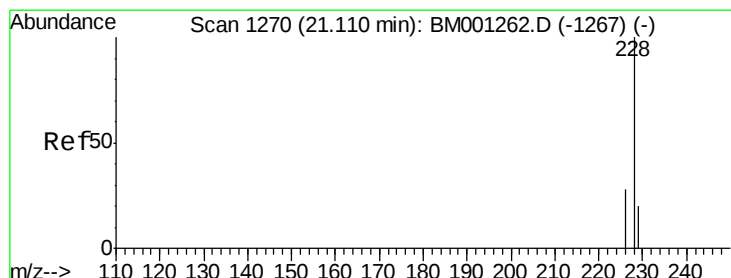
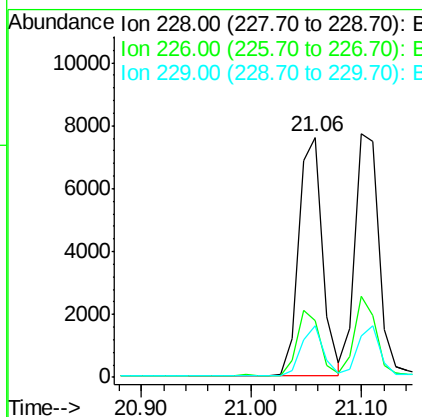
SSTDCCC001EC



Tgt Ion:	228	Resp:	11249
Ion Ratio	Lower	Upper	
228	100		
226	23.8	20.5	30.7
229	21.5	16.2	24.4

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#28

Chrysene

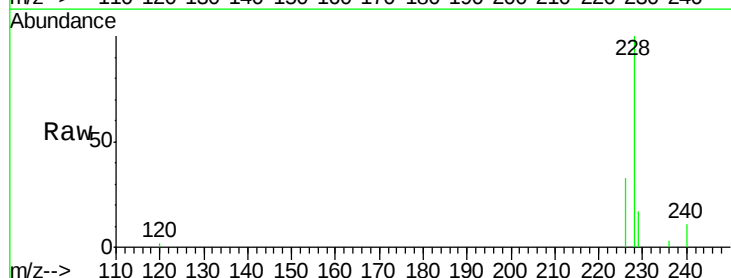
Concen: 0.95 ng m

RT: 21.10 min Scan# 1269

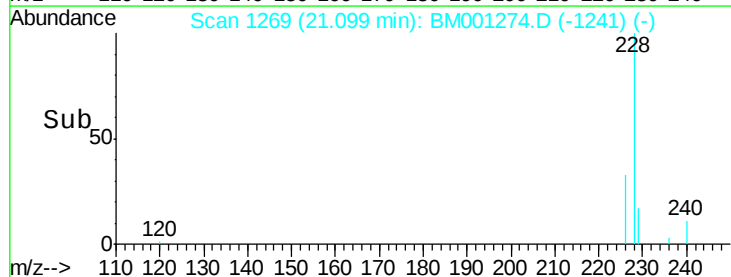
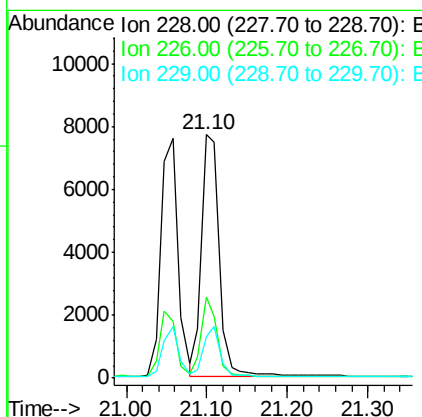
Delta R.T. -0.01 min

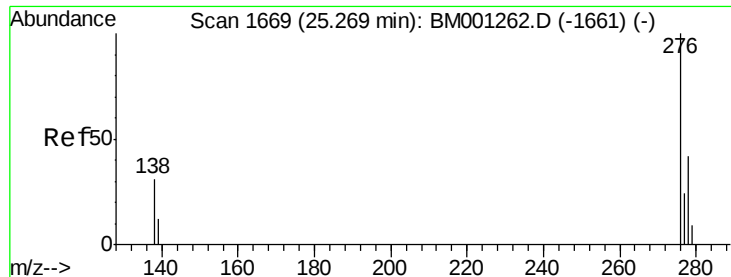
Lab File: BM001274.D

Acq: 13 May 2015 05:04



Tgt Ion:	228	Resp:	12147
Ion Ratio	Lower	Upper	
228	100		
226	33.5	22.2	33.2#
229	17.1	16.5	24.7





#29

Indeno(1,2,3-cd)pyrene

Concen: 0.99 ng

RT: 25.27 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BM001274.D

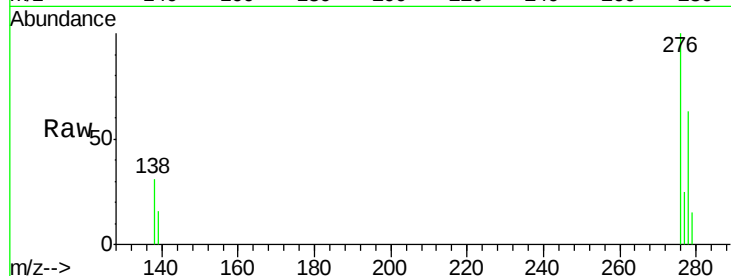
Acq: 13 May 2015 05:04

Instrument :

BNA_M

ClientSampleId :

SSTDCCC001EC



Tgt Ion: 276 Resp: 12935

Ion Ratio Lower Upper

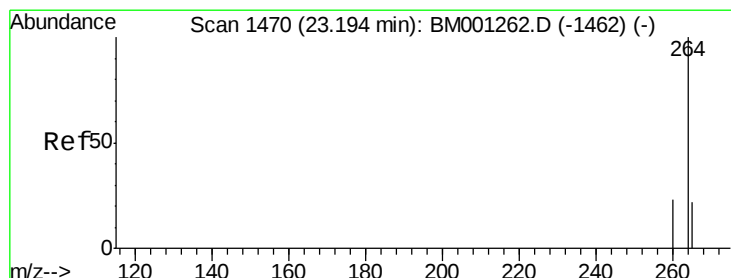
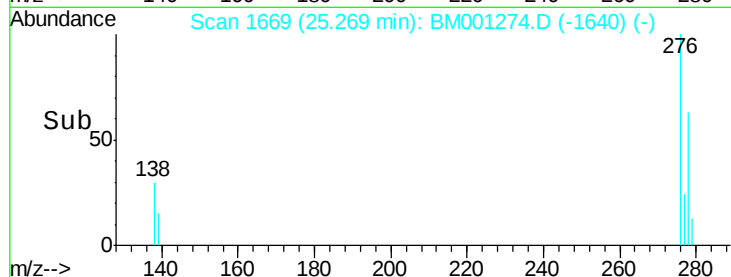
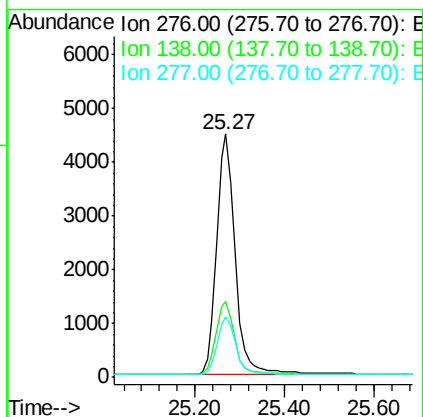
276 100

138 31.2 24.9 37.3

277 24.1 19.5 29.3

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#30

Perylene-d12

Concen: 5.00 ng

RT: 23.18 min Scan# 1469

Delta R.T. -0.01 min

Lab File: BM001274.D

Acq: 13 May 2015 05:04

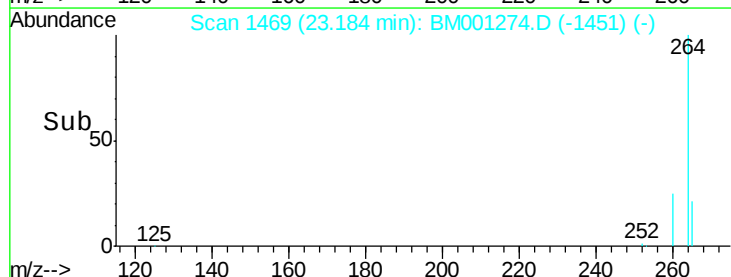
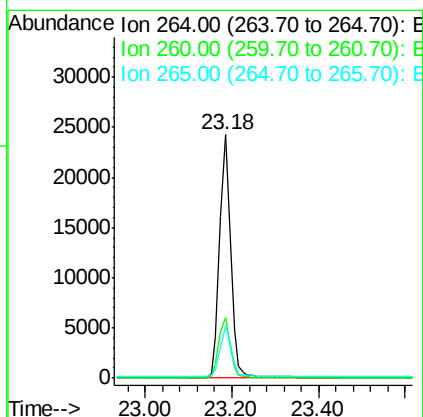
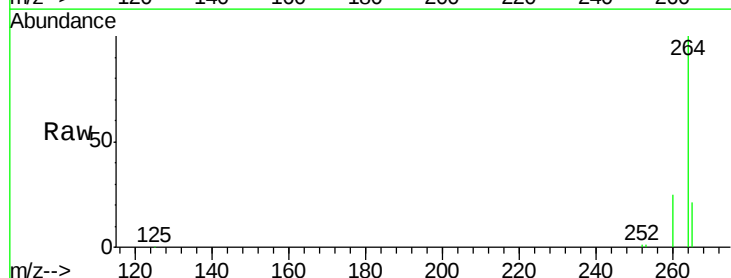
Tgt Ion: 264 Resp: 43195

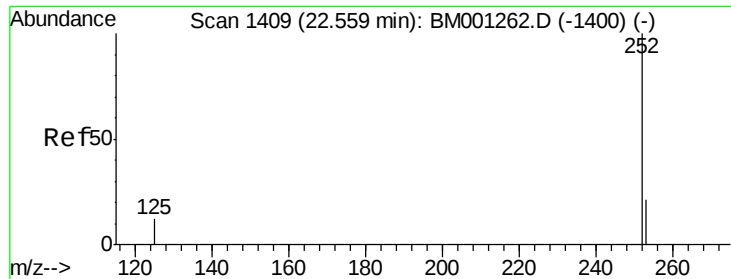
Ion Ratio Lower Upper

264 100

260 25.1 18.9 28.3

265 21.4 18.1 27.1





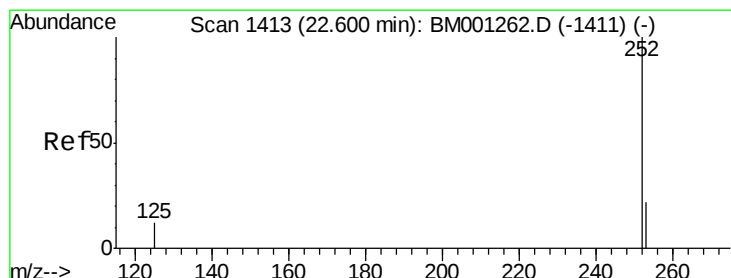
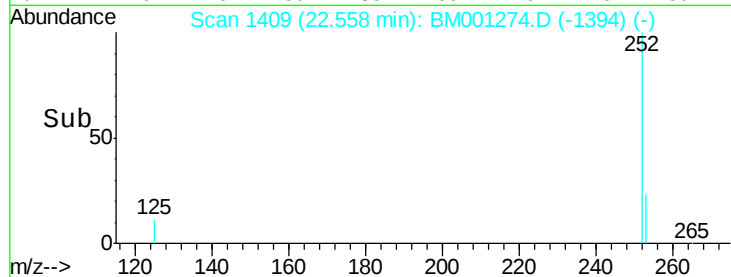
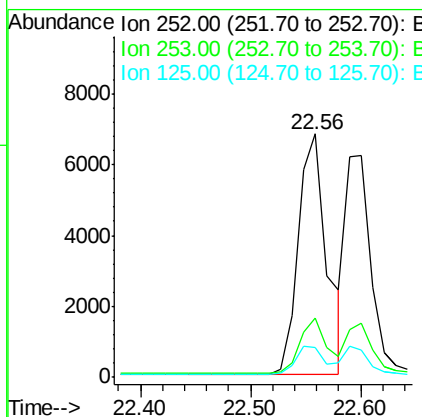
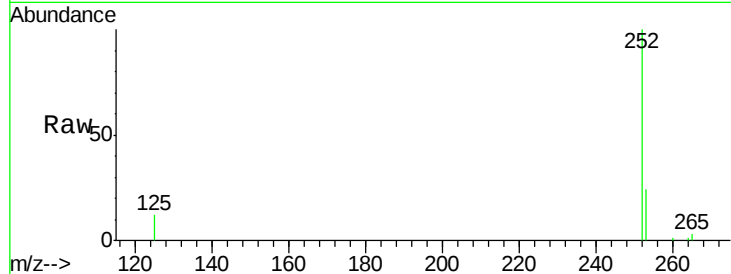
#31
Benzo(b)fluoranthene
Concen: 0.97 ng
RT: 22.56 min Scan# 1409
Delta R.T. -0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Instrument :
BNA_M
ClientSampleId :
SSTDCCC001EC

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.8	26.6
125	12.1	10.4	15.6

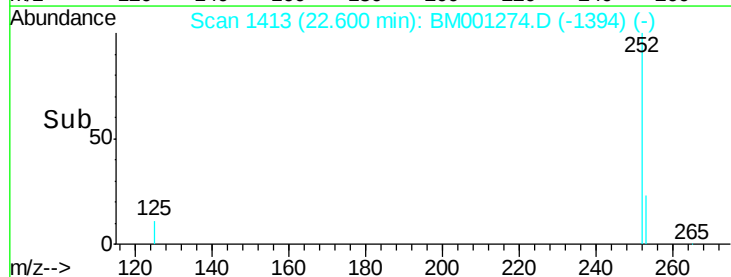
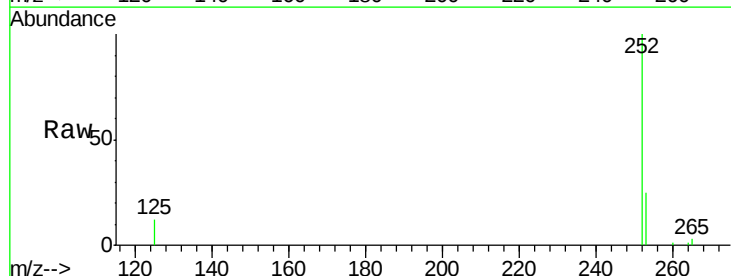
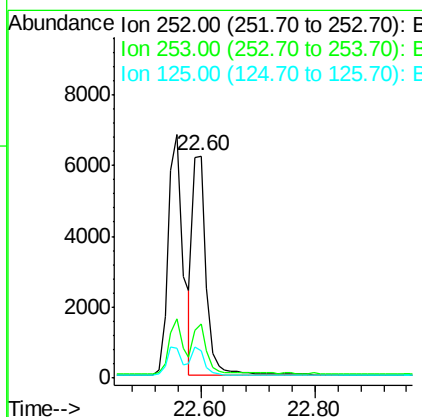
Manual Integrations
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#32
Benzo(k)fluoranthene
Concen: 0.86 ng
RT: 22.60 min Scan# 1413
Delta R.T. -0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.6	27.8
125	12.1	10.2	15.4





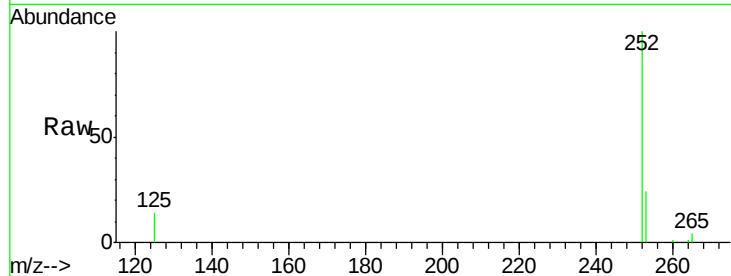
#33
Benzo(a)pyrene
Concen: 0.91 ng
RT: 23.09 min Scan# 1460
Delta R.T. -0.00 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Instrument :
BNA_M
ClientSampleId :
SSTDCCC001EC

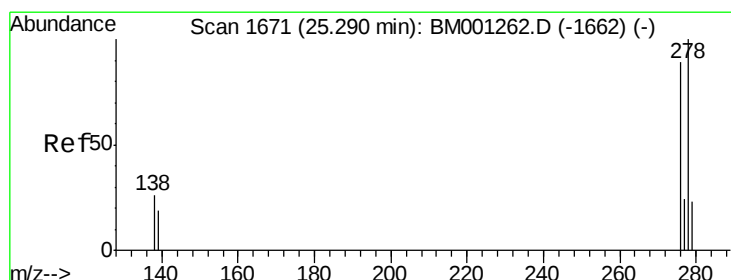
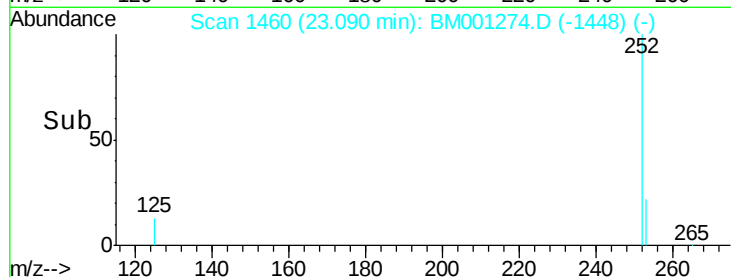
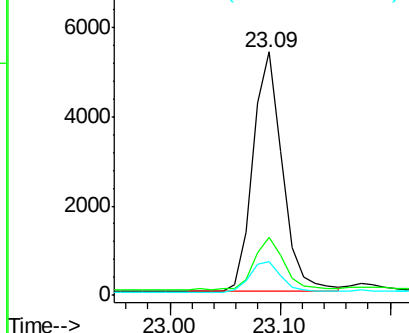
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.3	27.5
125	13.9	12.2	18.2

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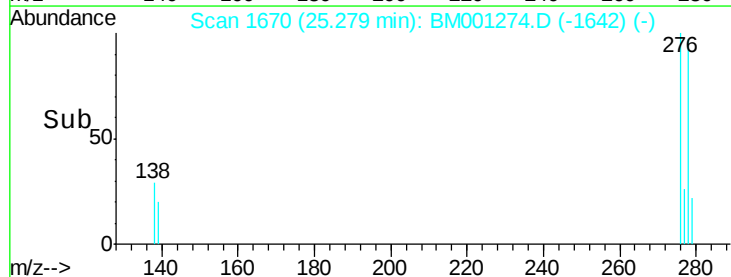
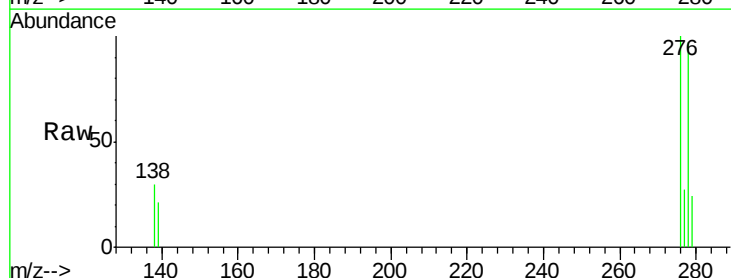
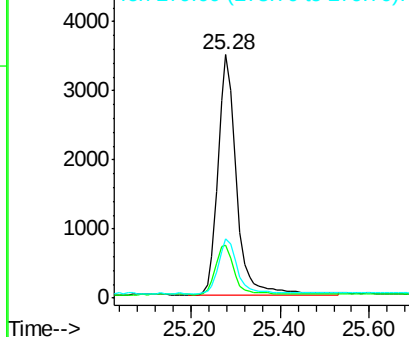
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#34
Dibenzo(a,h)anthracene
Concen: 0.97 ng
RT: 25.28 min Scan# 1670
Delta R.T. -0.01 min
Lab File: BM001274.D
Acq: 13 May 2015 05:04

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.6	16.6	24.8
279	24.6	20.0	30.0

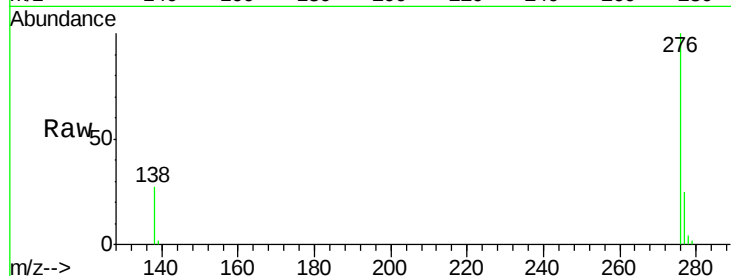
Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#35
 Benzo(g,h,i)perylene
 Concen: 0.98 ng
 RT: 25.90 min Scan# 1730
 Delta R.T. -0.01 min
 Lab File: BM001274.D
 Acq: 13 May 2015 05:04

Instrument :
 BNA_M
 ClientSampleId :
 SSTDCCC001EC



Tgt Ion:	276	Resp:	11047
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.9	29.9
138	27.2	21.0	31.4

Manual Integrations
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