

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101017\
 Data File : BF099323.D
 Acq On : 11 Oct 2017 2:05
 Operator : SJ/JU
 Sample : I5748-04 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-100617-B

Manual Integrations
 APPROVED

Sohil
 10/11/2017 7:24:12 PM

Quant Time: Oct 11 04:52:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 05 17:20:48 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	90618	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	336270	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	130967	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	215836	20.00	ng	0.00
75) Chrysene-d12	14.03	240	180700	20.00	ng	0.00
86) Perylene-d12	15.51	264	137264	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	146081	25.66	ng	0.00
7) Phenol-d6	6.49	99	169240	24.10	ng	-0.01
23) Nitrobenzene-d5	7.42	82	88310	16.84	ng	-0.01
41) 2,4,6-Tribromophenol	10.69	330	24357	22.73	ng	-0.01
44) 2-Fluorobiphenyl	9.22	172	168407	21.47	ng	-0.01
78) Terphenyl-d14	12.97	244	138612	17.45	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.17	128	149877	9.490	ng	98
37) 2-Methylnaphthalene	8.86	142	71225	6.937	ng	97
48) Acenaphthylene	9.76	152	90428	6.990	ng	99
49) Dimethylphthalate	9.61	163	24570	2.486	ng	98
51) Acenaphthene	9.93	154	45845	5.594	ng	99
54) Dibenzofuran	10.10	168	73549	6.741	ng	97
57) Fluorene	10.45	166	115583	13.179	ng	95
70) Phenanthrene	11.42	178	551868	47.768	ng	99
71) Anthracene	11.46	178	177054	14.978	ng	98
72) Carbazole	11.62	167	61552	5.317	ng	97
74) Fluoranthene	12.60	202	629846	53.838	ng	99
77) Pylene	12.83	202	587933	42.669	ng	100
80) Benzo(a)anthracene	14.02	228	316172	28.896	ng	97
82) Chrysene	14.06	228	256364	24.610	ng	98
85) Indeno(1,2,3-cd)pyrene	17.00	276	111355	13.363	ng	98
87) Benzo(b)fluoranthene	15.08	252	282116m	33.428	ng	
88) Benzo(k)fluoranthene	15.10	252	115313m	13.834	ng	
89) Benzo(a)pyrene	15.45	252	215671	27.840	ng	95
90) Dibenzo(a,h)anthracene	17.00	278	30064m	4.849	ng	
91) Benzo(a,h,i)perylene	17.46	276	106299	17.345	ng	92

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

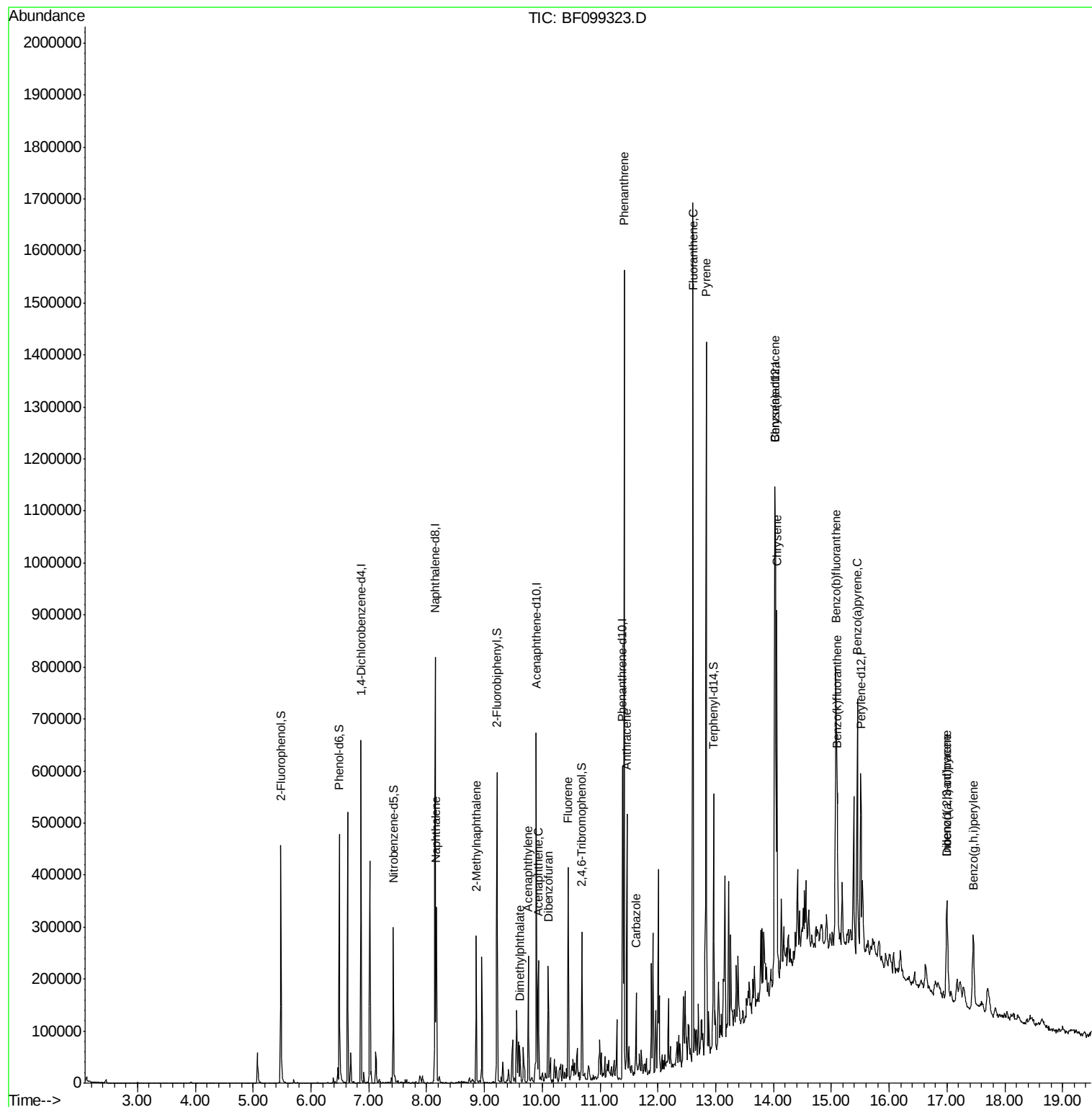
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101017\
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#1

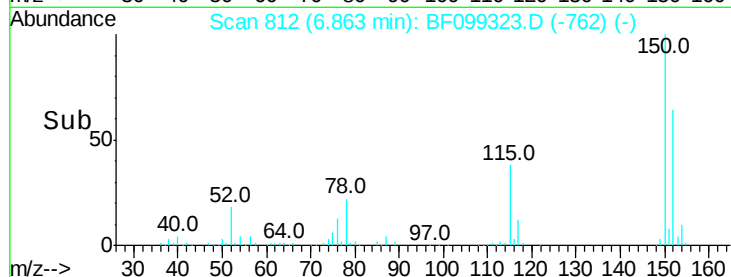
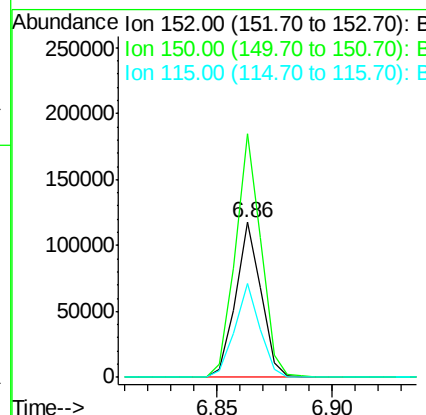
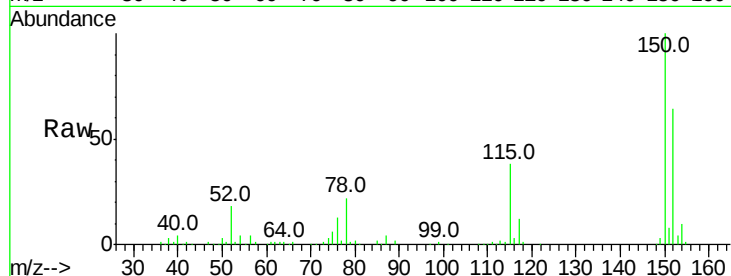
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Instrument :
BNA_F
ClientSampleId :
CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.6	186.8
115	60.2	50.1	75.1

Manual Integrations
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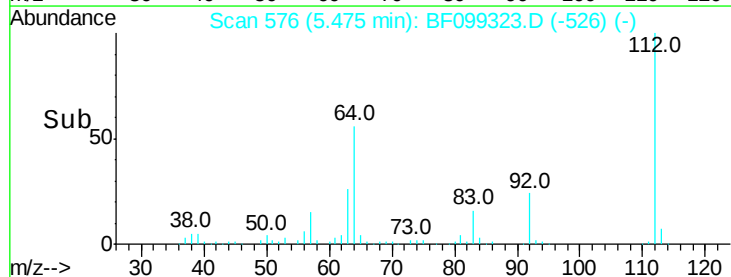
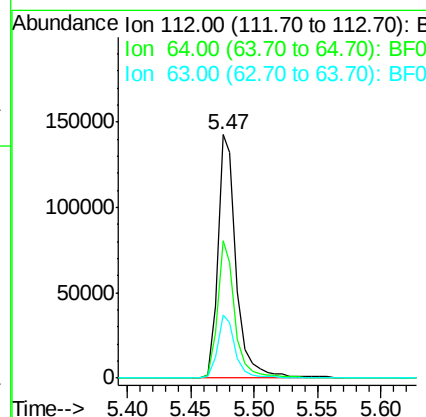
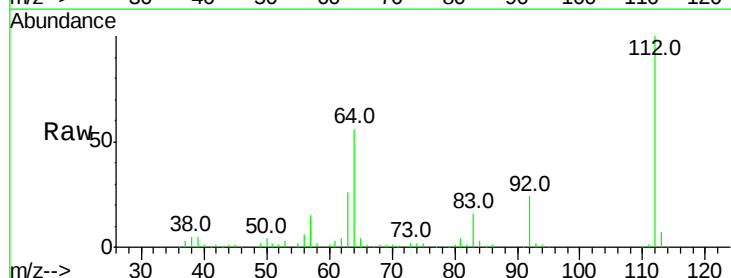
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#5

2-Fluorophenol
Concen: 25.662 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.4	47.9	71.9
63	26.0	23.7	35.5





#7

Phenol-d6

Concen: 24.100 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA_F

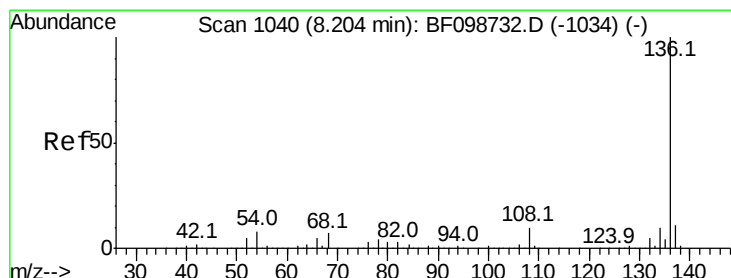
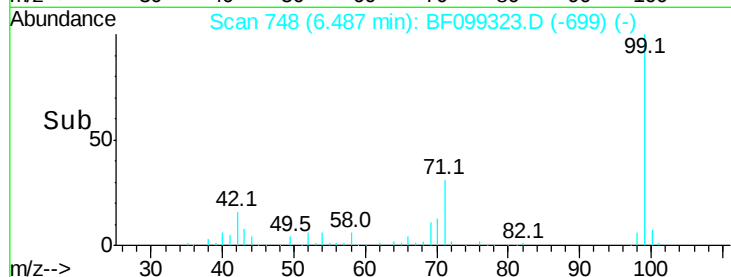
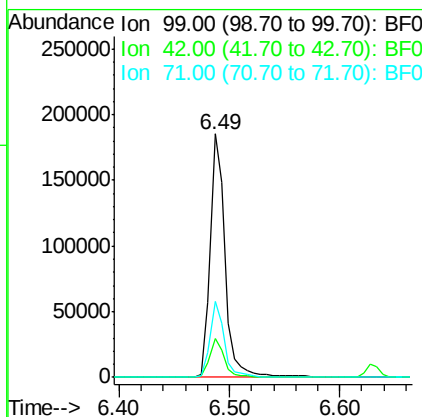
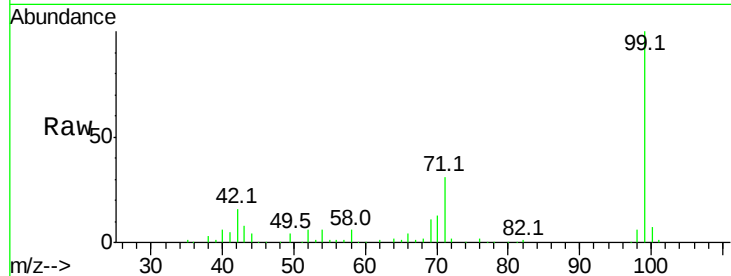
ClientSampled :

CL-01-100617-B

Tot Ion:	99	Resp:	169240
Ion Ratio	Lower	Upper	
99	100		
42	15.8	14.5	21.7
71	31.3	25.4	38.0

Manual Integrations
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#21

Naphthalene-d8

Concen: 20.000 ng

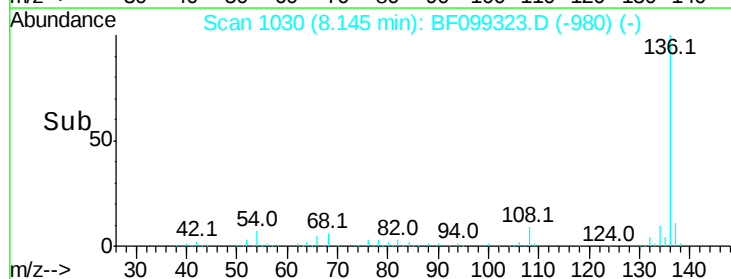
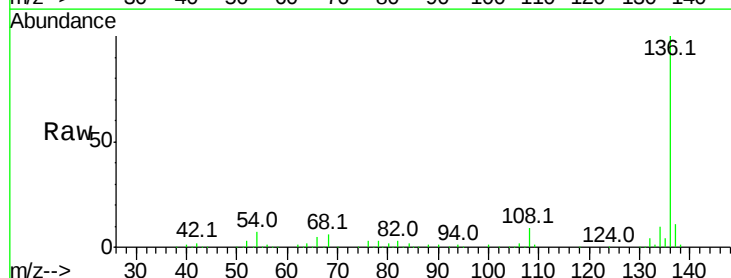
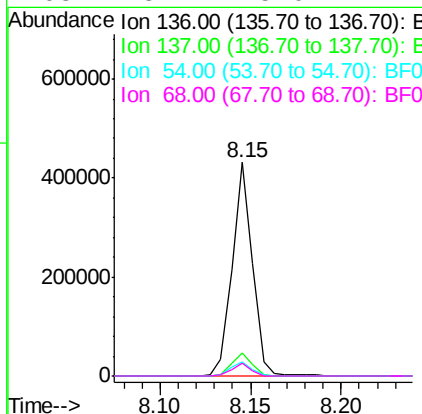
RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Tgt Ion:	136	Resp:	336270
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	6.8	6.6	9.8
68	5.7	5.0	7.4





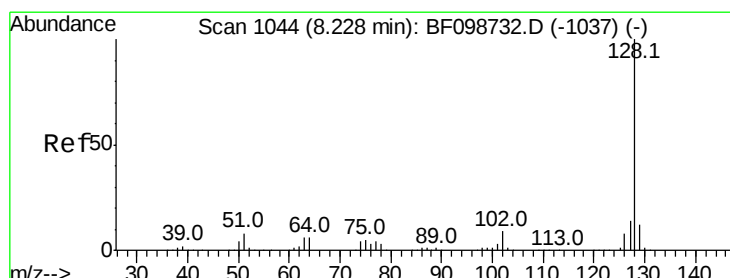
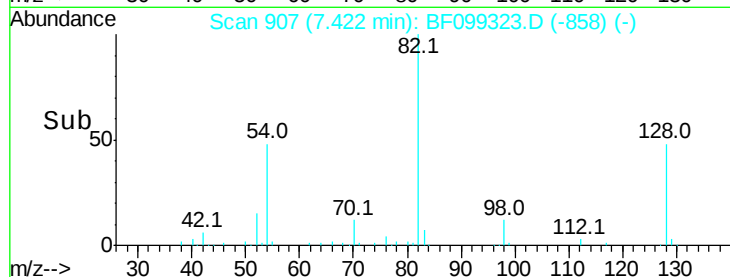
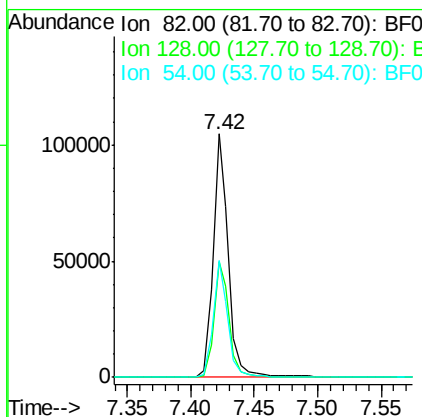
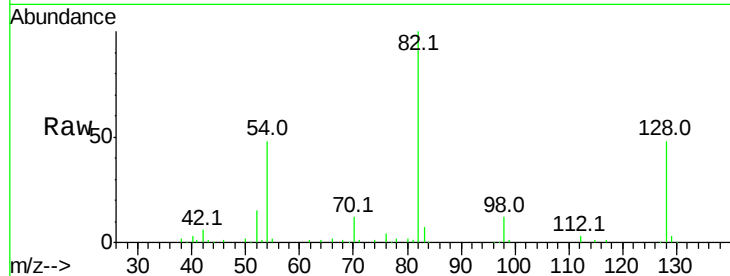
#23
 Nitrobenzene-d5
 Concen: 16.842 ng
 RT: 7.42 min Scan# 907
 Delta R.T. -0.01 min
 Lab File: BF099323.D
 Acq: 11 Oct 2017 2:05

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.6	36.1	54.1
54	47.9	41.4	62.2

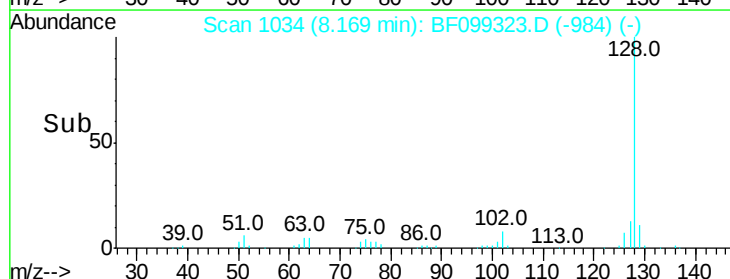
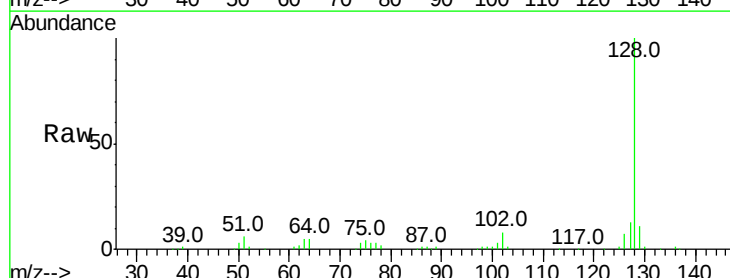
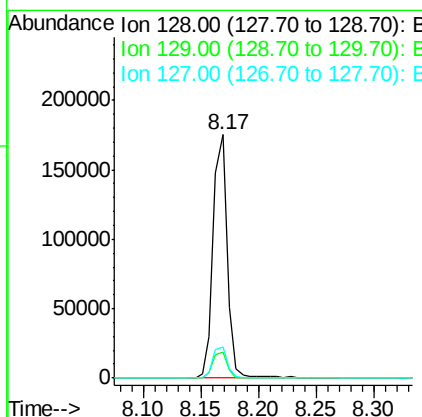
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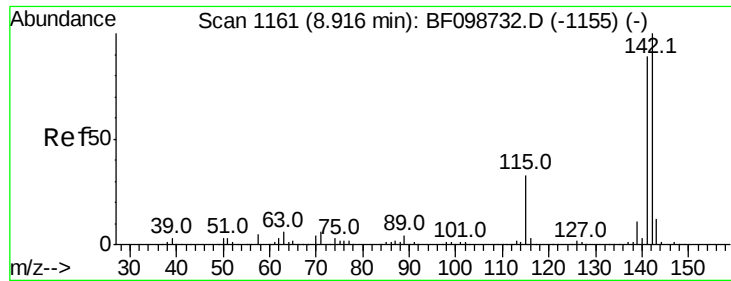
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#31
 Naphthalene
 Concen: 9.490 ng
 RT: 8.17 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: BF099323.D
 Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	12.7	10.9	16.3





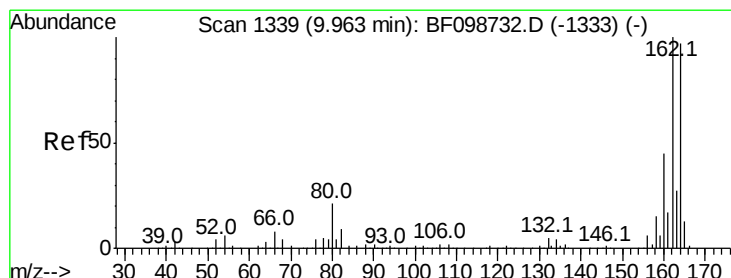
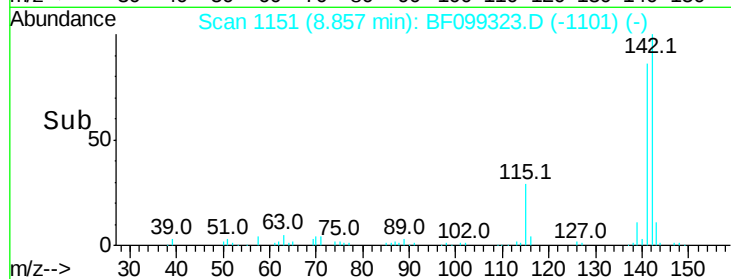
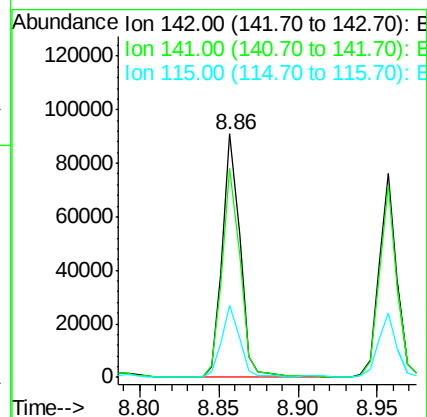
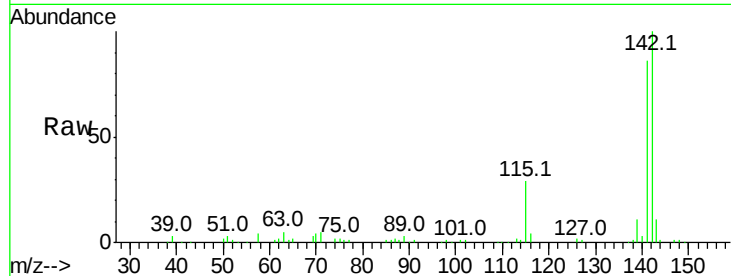
#37
2-Methylnaphthalene
Concen: 6.937 ng
RT: 8.86 min Scan# 1151
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Instrument :
BNA_F
ClientSampleId :
CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.0	70.8	106.2
115	29.4	26.1	39.1

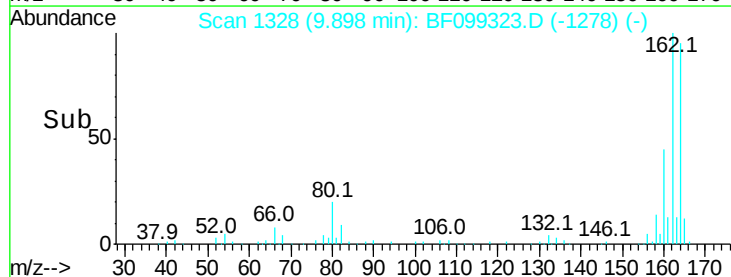
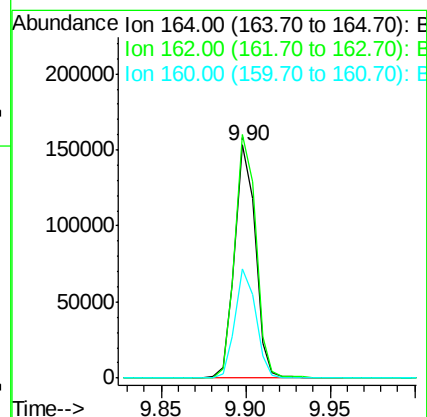
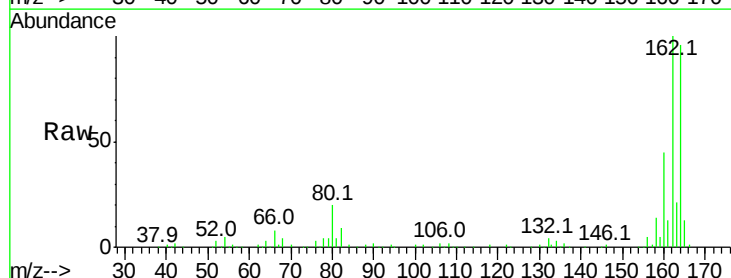
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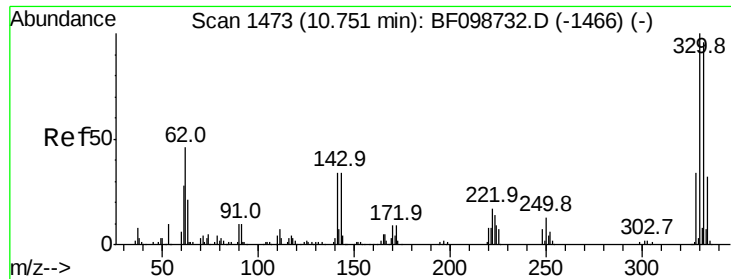
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	86.1	129.1
160	46.9	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 22.728 ng

RT: 10.69 min Scan# 1462

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA_F

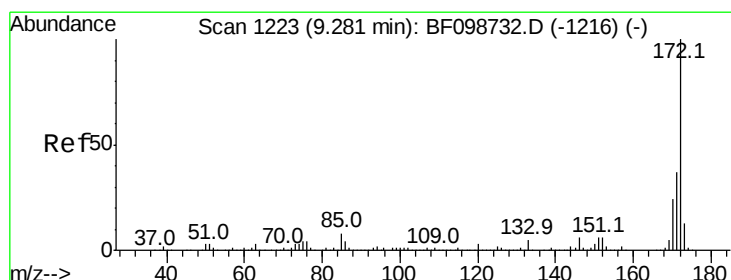
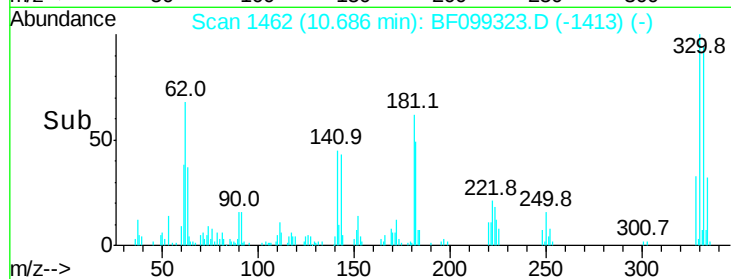
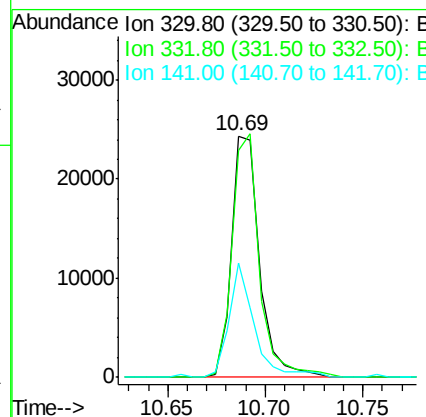
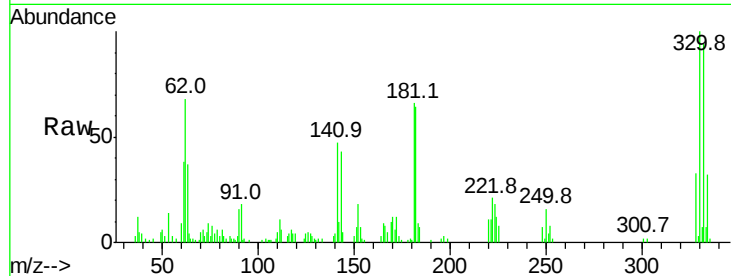
ClientSampleId :

CL-01-100617-B

Tot Ion:	330	Resp:	24357
Ion Ratio	Lower	Upper	
330	100		
332	98.6	77.0	115.6
141	42.7	29.9	44.9

Manual Integrations
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#44

2-Fluorobiphenyl

Concen: 21.467 ng

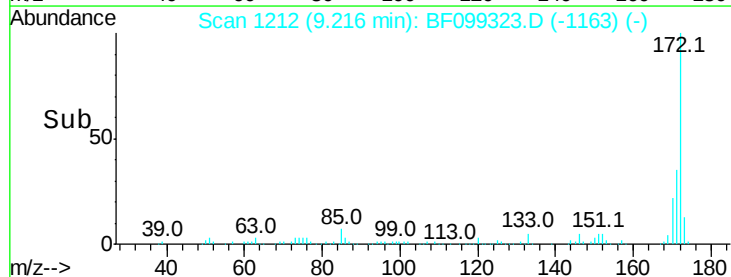
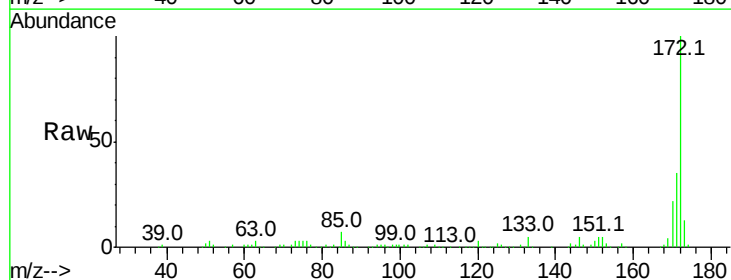
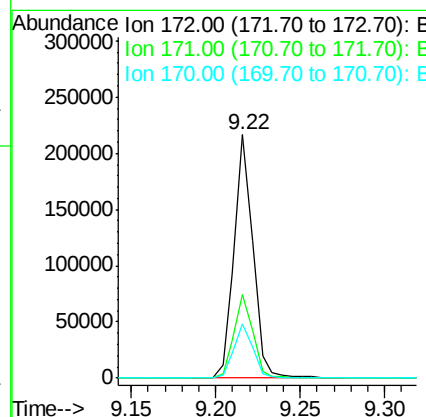
RT: 9.22 min Scan# 1212

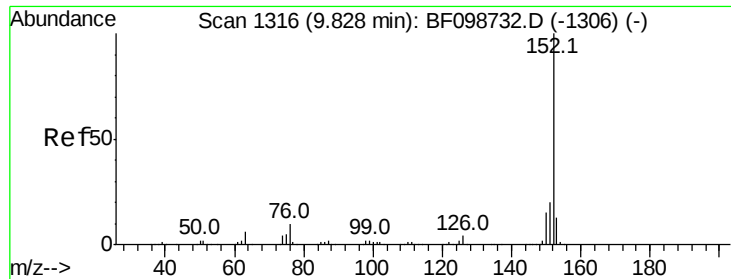
Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Tgt Ion:	172	Resp:	168407
Ion Ratio	Lower	Upper	
172	100		
171	34.5	29.7	44.5
170	22.5	19.6	29.4





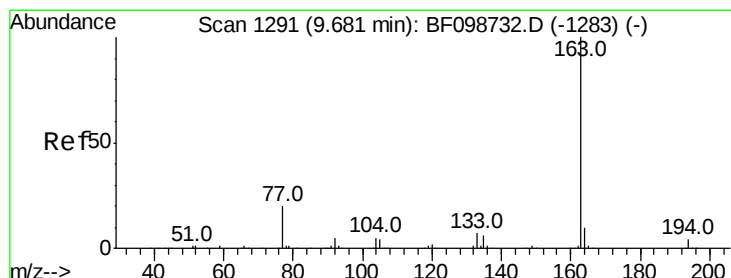
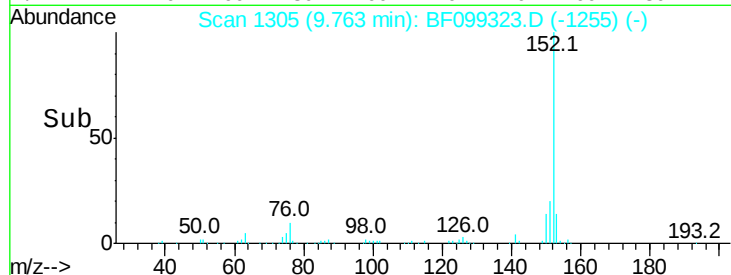
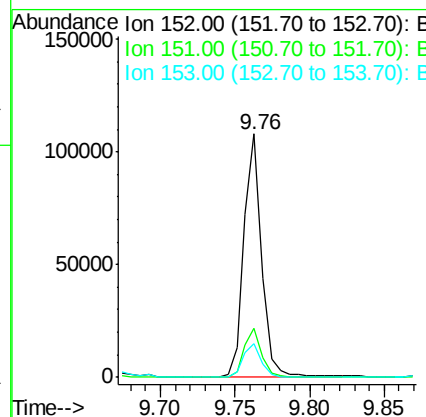
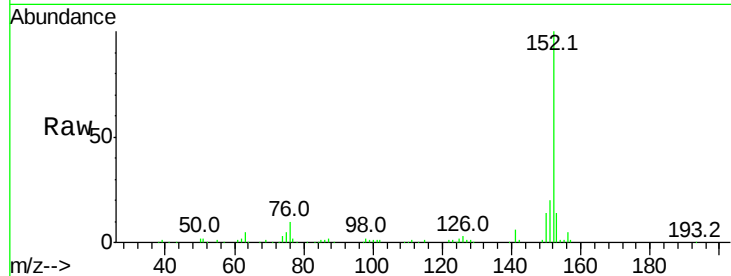
#48
Acenaphthylene
Concen: 6.990 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Instrument :
BNA_F
ClientSampleId :
CL-01-100617-B

Tot Ion	Ratio	Resp	Lower	Upper
152	100	90428		
151	20.0		16.3	24.5
153	13.9		10.7	16.1

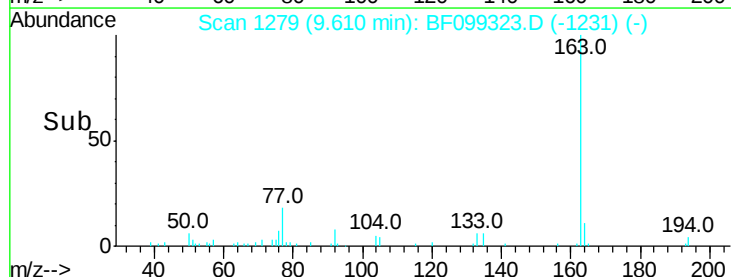
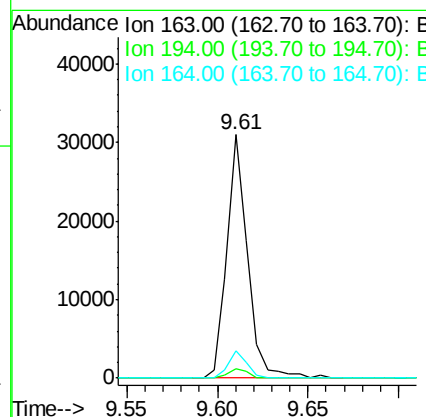
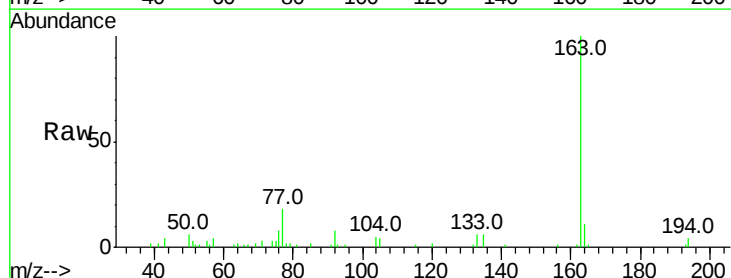
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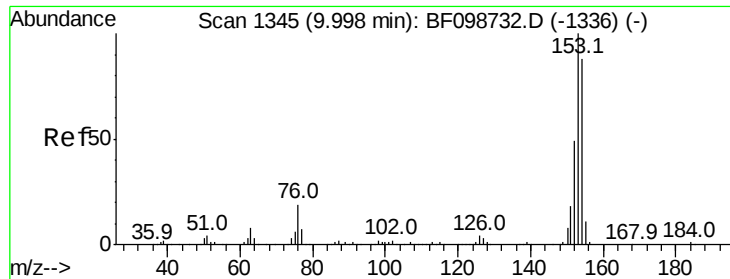
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#49
Dimethylphthalate
Concen: 2.486 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.02 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	24570		
194	3.8		2.7	4.1
164	11.1		8.2	12.2





#51

Acenaphthene

Concen: 5.594 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA_F

ClientSampleId :

CL-01-100617-B

Tot Ion:154 Resp: 45845

Ion Ratio Lower Upper

154 100

153 115.0 91.2 136.8

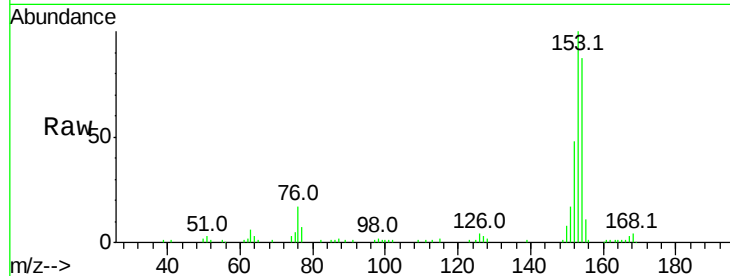
152 55.2 43.8 65.8

Manual Integrations

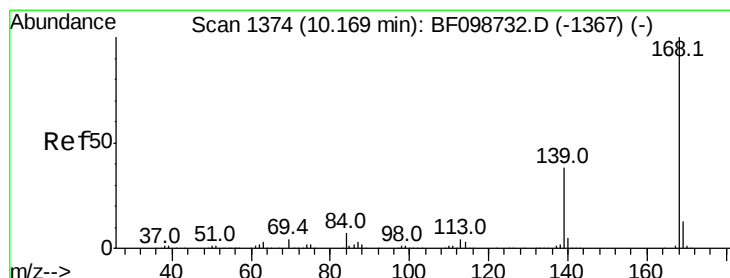
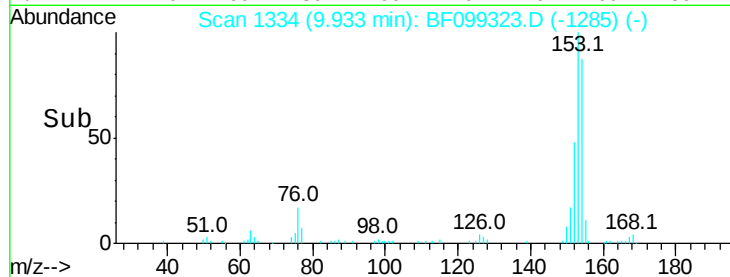
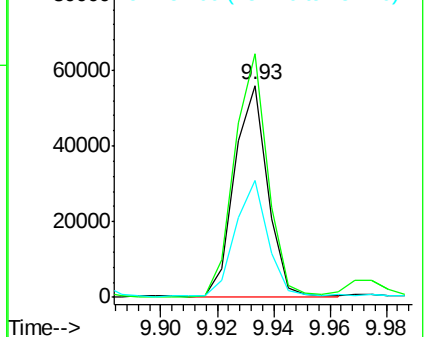
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.741 ng

RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

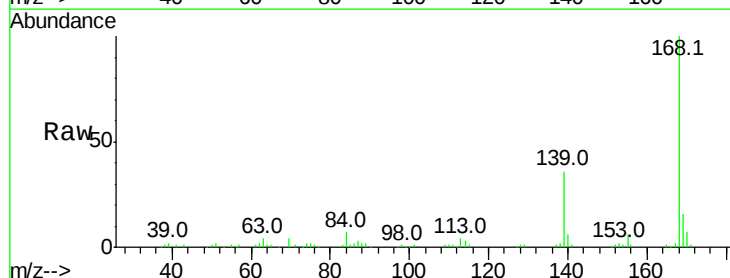
Tgt Ion:168 Resp: 73549

Ion Ratio Lower Upper

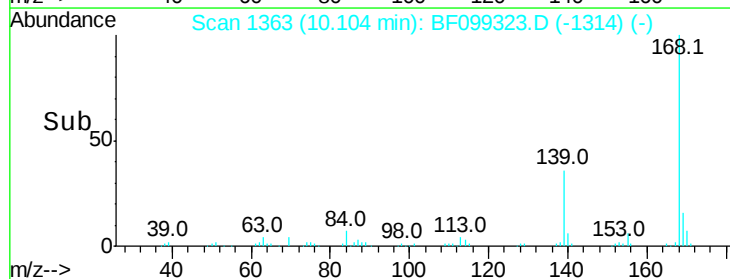
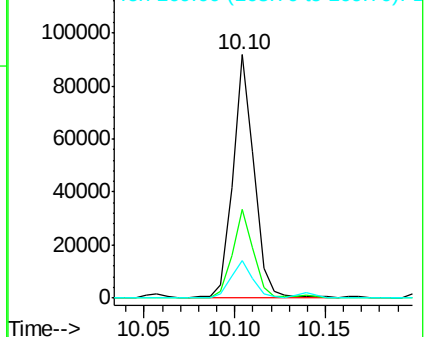
168 100

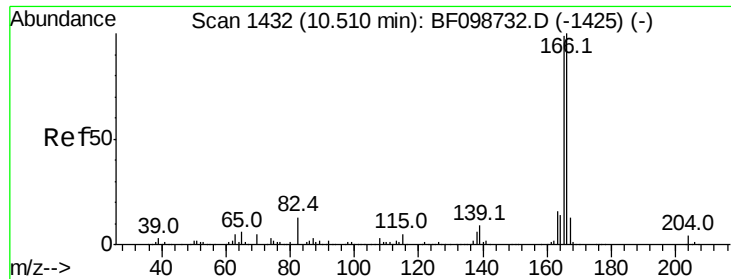
139 36.2 30.1 45.1

169 15.5 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





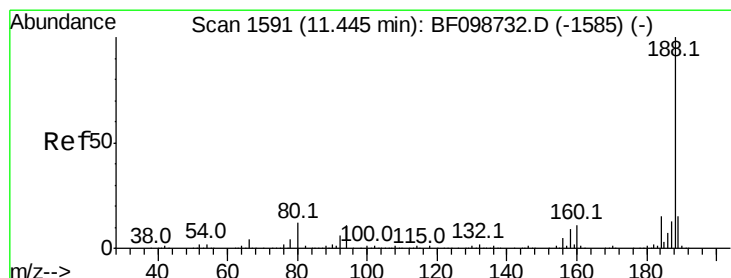
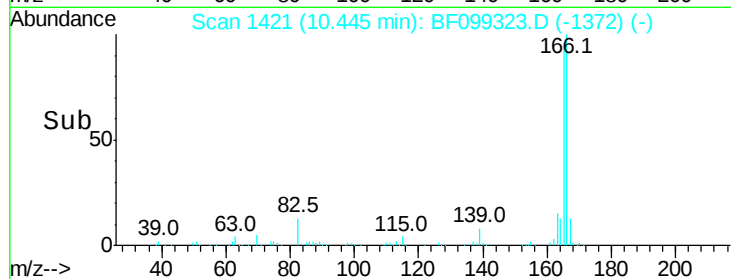
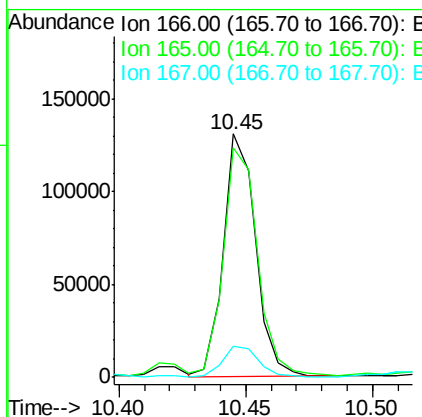
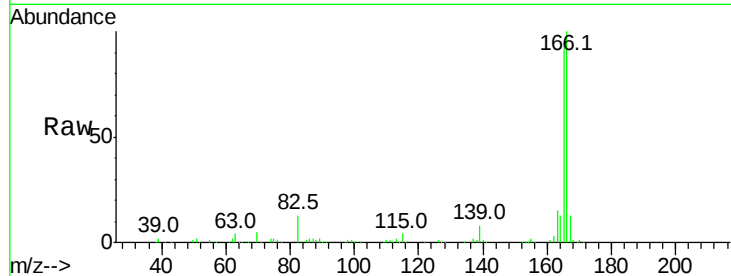
#57
Fluorene
 Concen: 13.179 ng
 RT: 10.45 min Scan# 1421
 Delta R.T. -0.01 min
 Lab File: BF099323.D
 Acq: 11 Oct 2017 2:05

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-100617-B

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	94.5	79.8	119.8	
167	13.0	10.6	16.0	

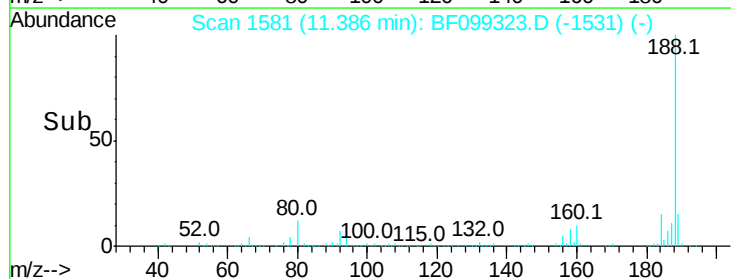
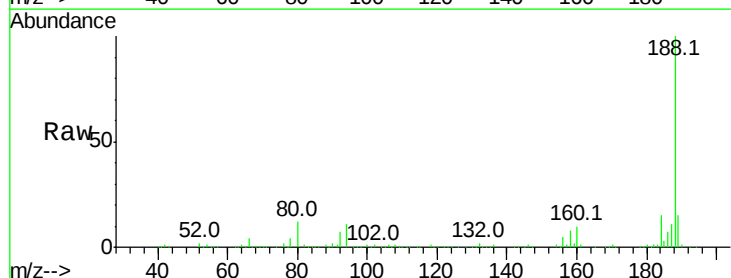
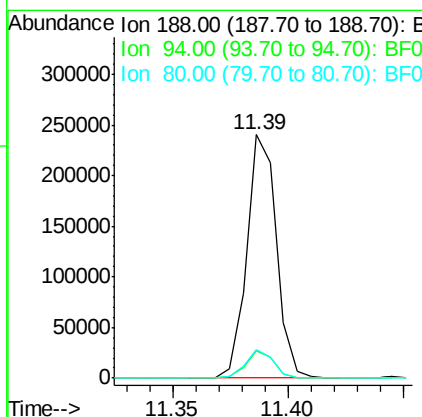
Manual Integrations
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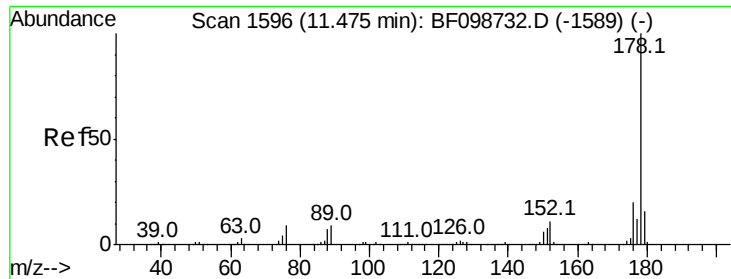
Sohil
 10/11/2017 7:24:12 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: BF099323.D
 Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.1	8.5	12.7	
80	11.8	9.2	13.8	





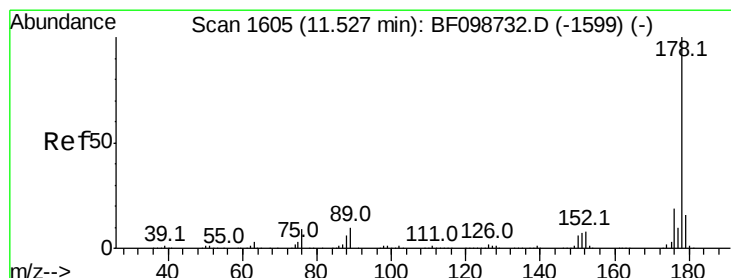
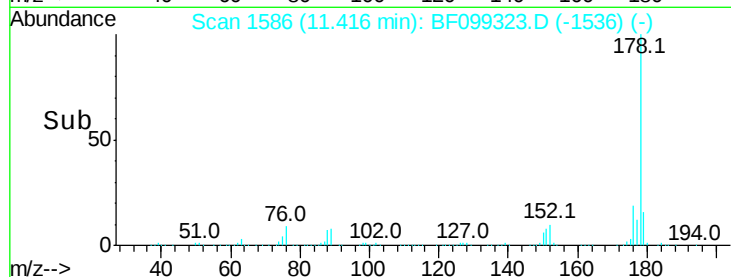
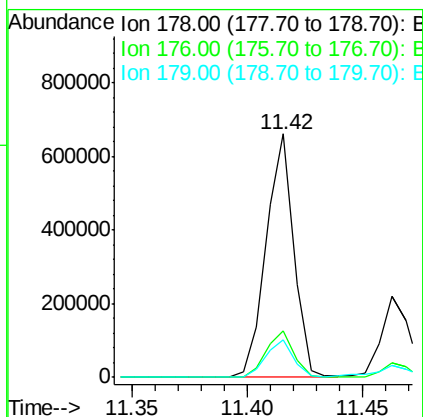
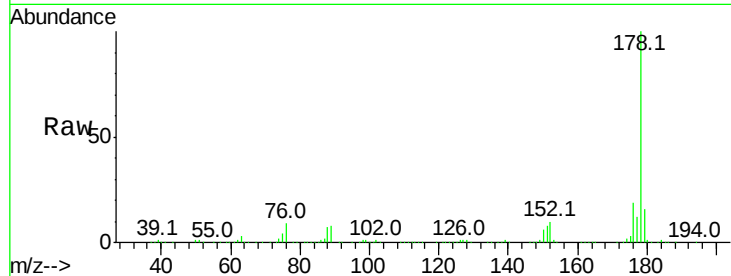
#70
Phenanthrene
Concen: 47.768 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Instrument :
BNA_F
ClientSampleId :
CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.6	13.0	19.6

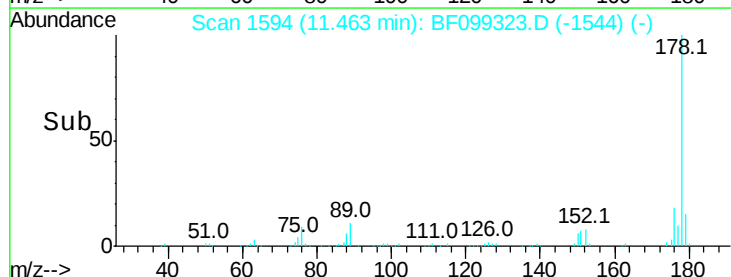
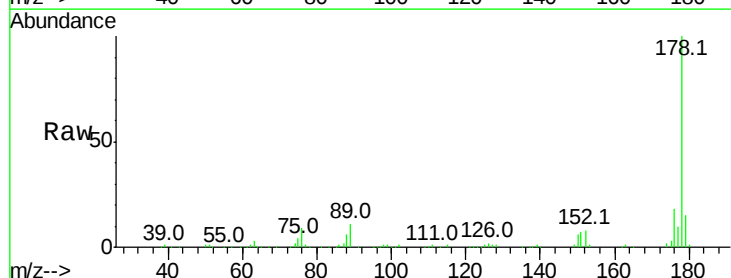
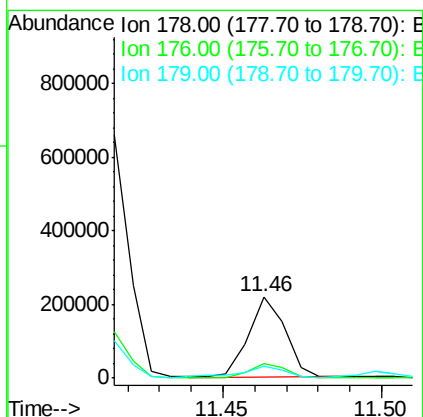
Manual Integrations
APPROVED

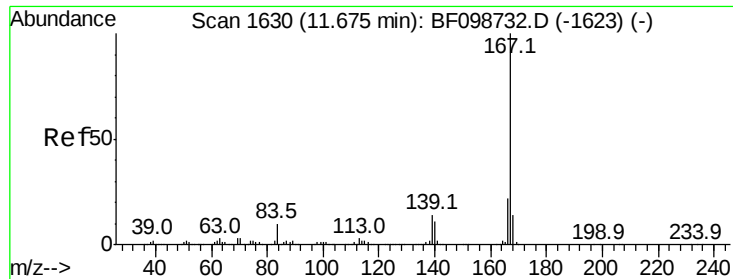
Sohil
10/11/2017 7:24:12 PM



#71
Anthracene
Concen: 14.978 ng
RT: 11.46 min Scan# 1594
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.4	12.6	19.0





#72

Carbazole

Concen: 5.317 ng

RT: 11.62 min Scan# 1621

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA_F

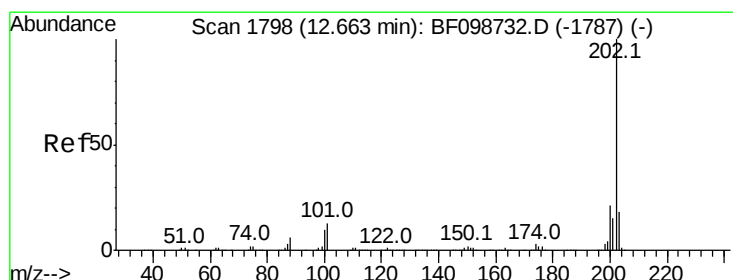
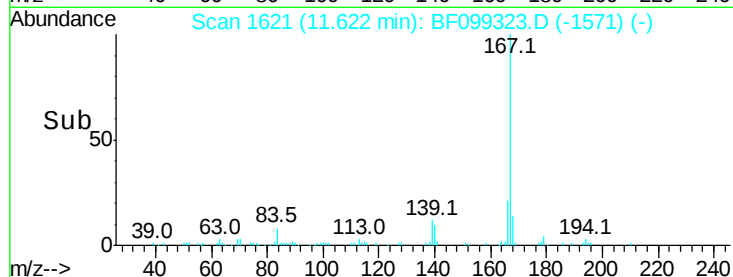
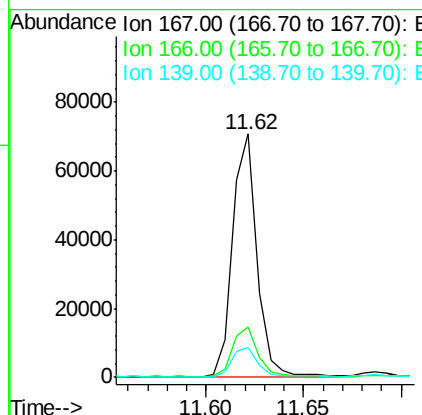
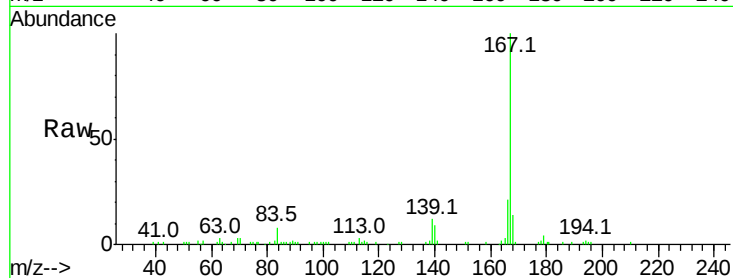
ClientSampleId :

CL-01-100617-B

Tot Ion:	167	Resp:	61552
Ion Ratio	Lower	Upper	
167	100		
166	20.5	17.6	26.4
139	12.4	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 53.838 ng

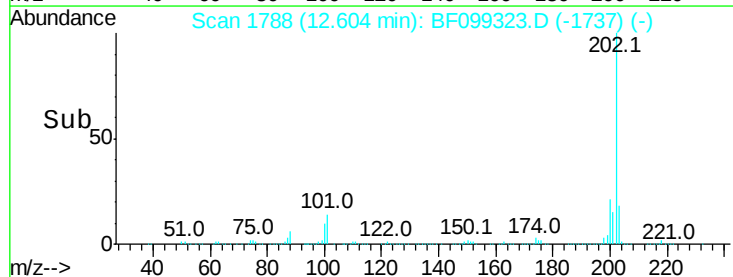
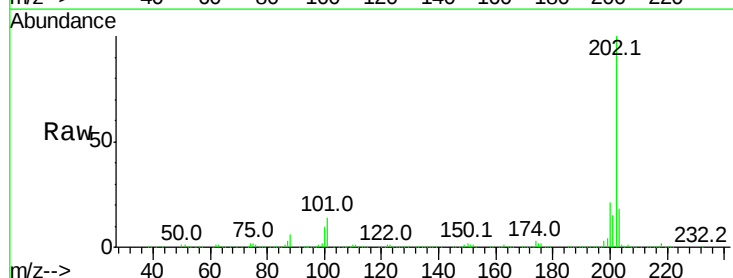
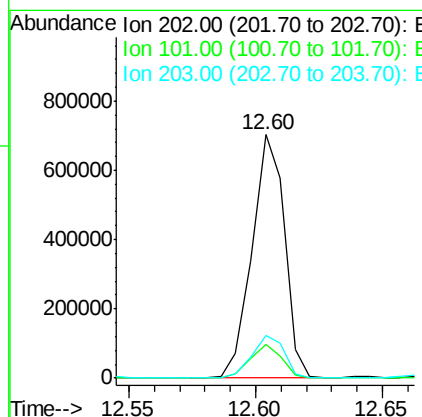
RT: 12.60 min Scan# 1788

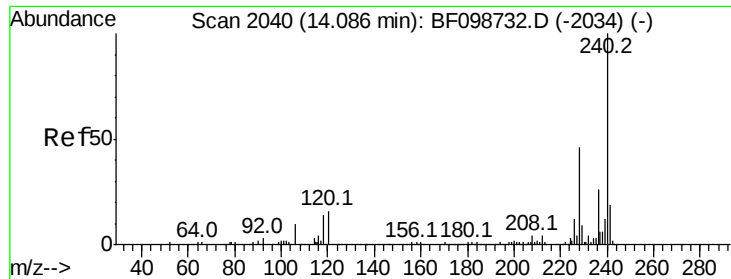
Delta R.T. 0.00 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Tgt Ion:	202	Resp:	629846
Ion Ratio	Lower	Upper	
202	100		
101	14.0	0.0	34.1
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.00 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA_F

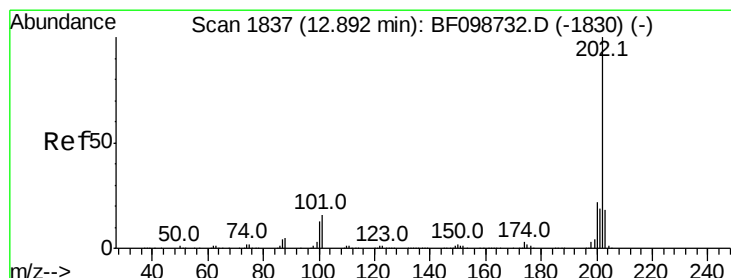
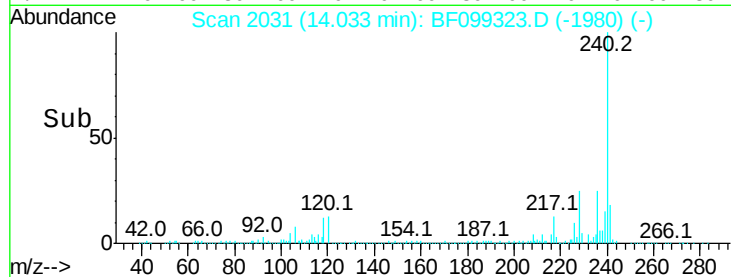
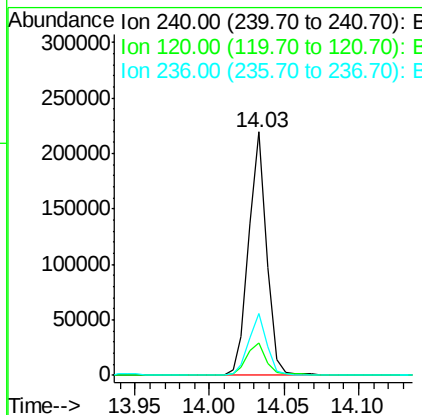
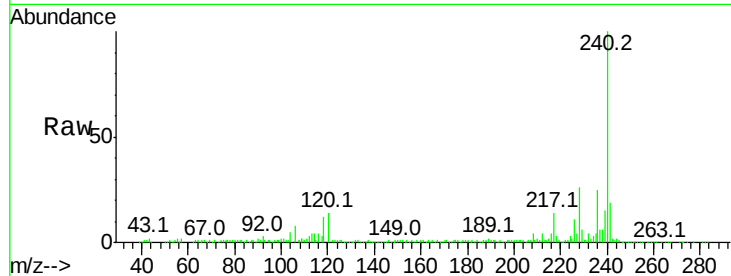
ClientSampleId :

CL-01-100617-B

Tot Ion:	240	Resp:	180700
Ion Ratio		Lower	Upper
240	100		
120	13.5	9.5	14.3
236	25.3	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 42.669 ng

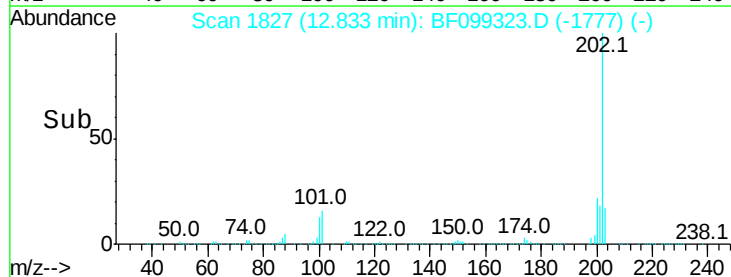
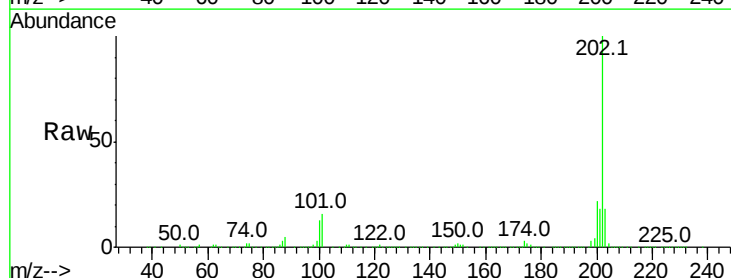
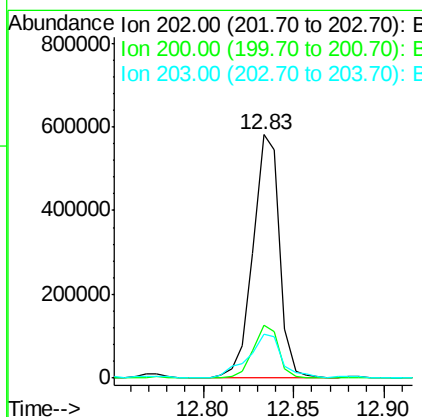
RT: 12.83 min Scan# 1827

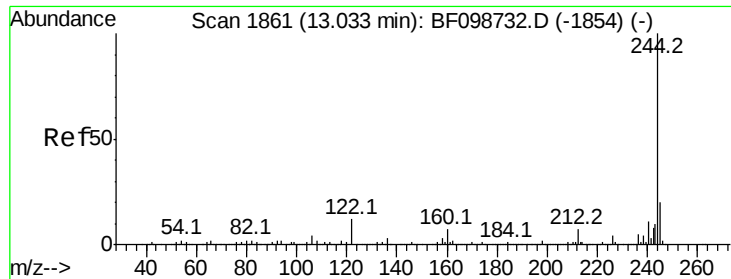
Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Tgt Ion:	202	Resp:	587933
Ion Ratio		Lower	Upper
202	100		
200	21.6	17.4	26.2
203	18.1	14.3	21.5





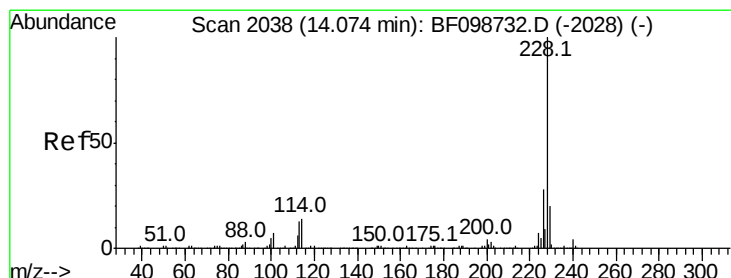
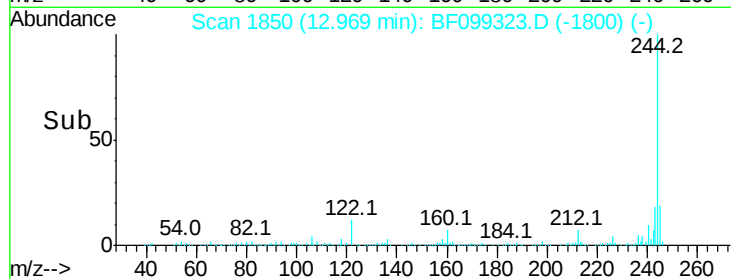
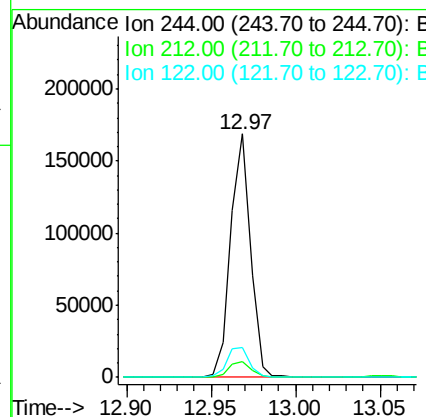
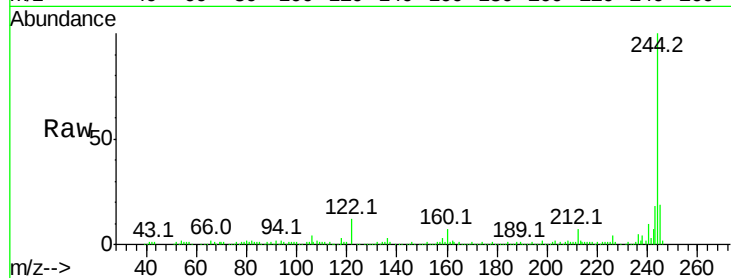
#78
 Terphenyl-d14
 Concen: 17.445 ng
 RT: 12.97 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: BF099323.D
 Acq: 11 Oct 2017 2:05

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	12.0	11.0	16.4

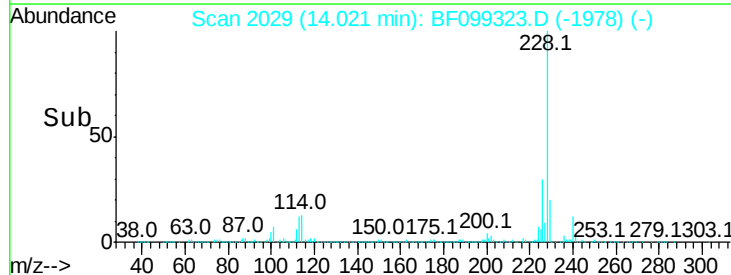
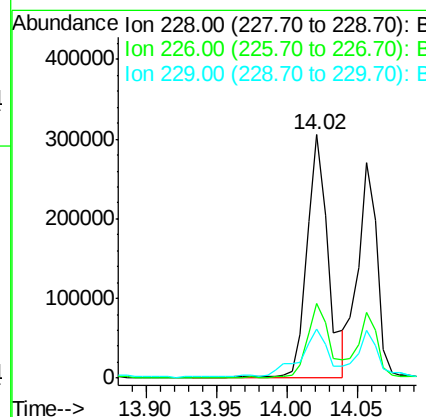
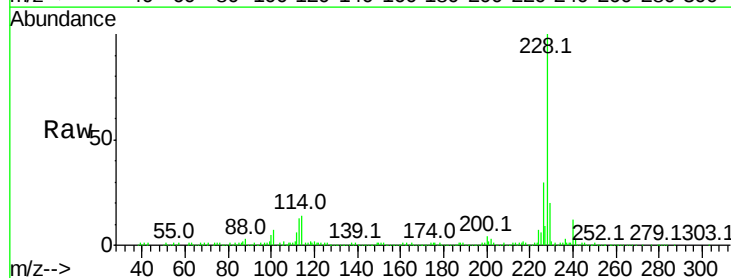
Manual Integrations
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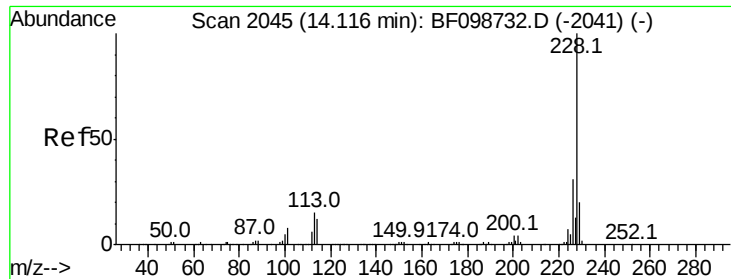
Sohil
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#80
 Benzo(a)anthracene
 Concen: 28.896 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. 0.00 min
 Lab File: BF099323.D
 Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	22.6	33.8
229	20.2	15.8	23.6





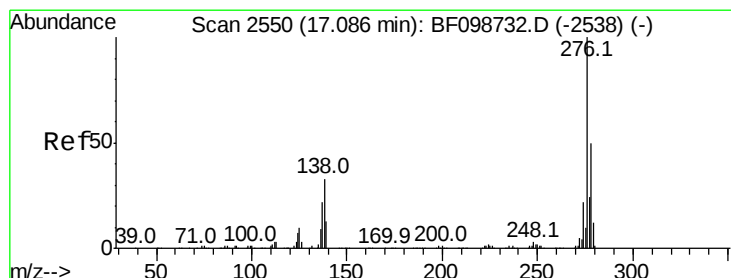
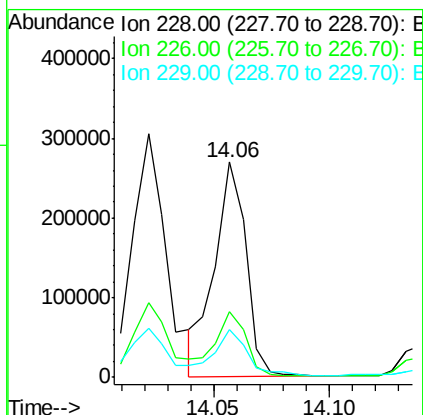
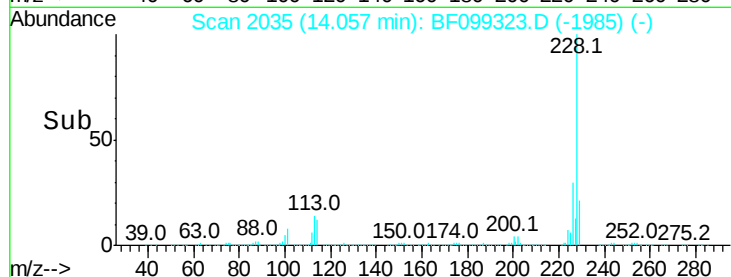
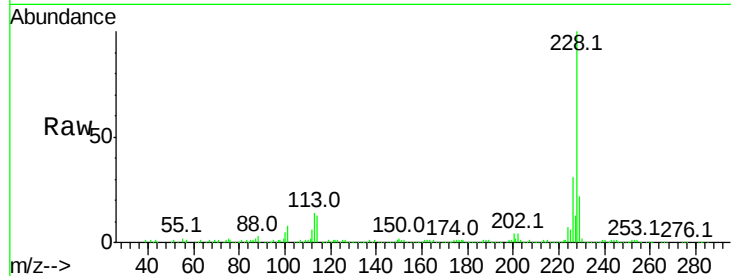
#82
Chrysene
Concen: 24.610 ng
RT: 14.06 min Scan# 2035
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Instrument :
BNA_F
ClientSampleId :
CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	22.1	16.2	24.4

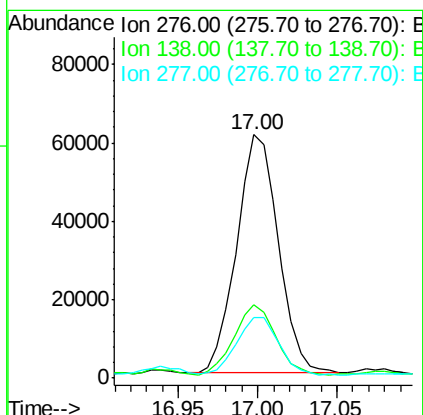
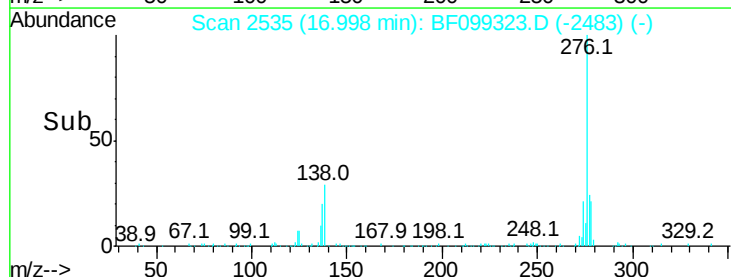
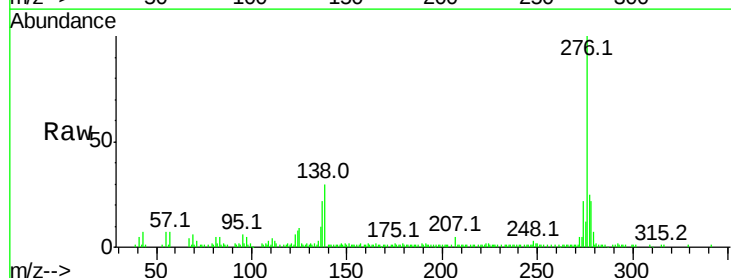
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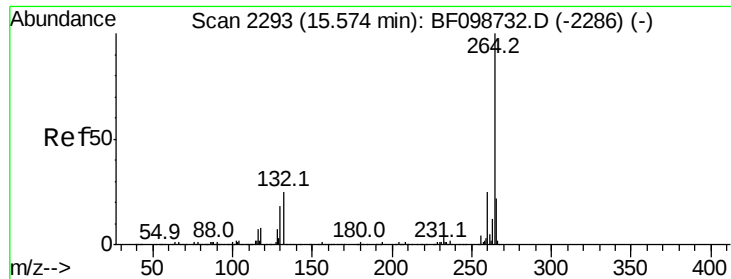
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 13.363 ng
RT: 17.00 min Scan# 2535
Delta R.T. 0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.4	25.0	37.6
277	25.1	20.1	30.1





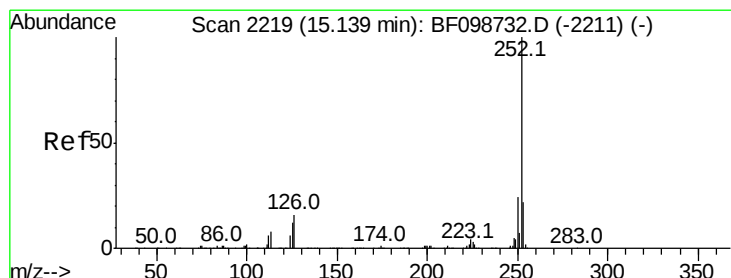
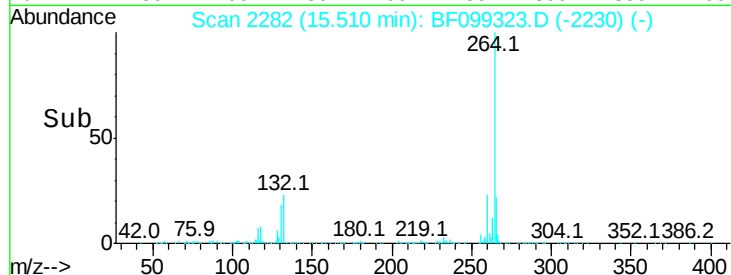
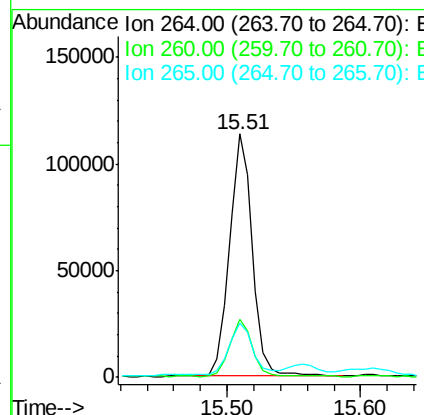
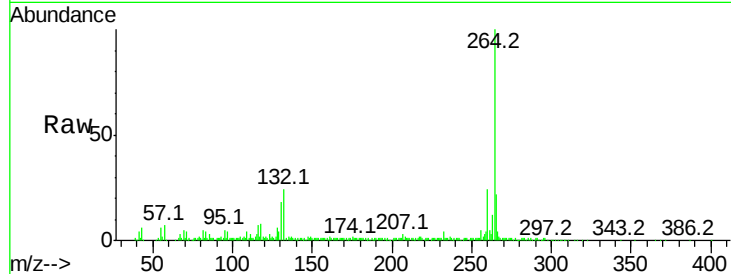
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.51 min Scan# 2282
Delta R.T. 0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Instrument :
BNA_F
ClientSampleId :
CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	22.1	17.5	26.3

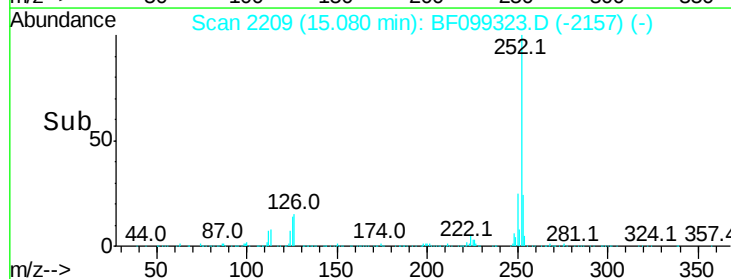
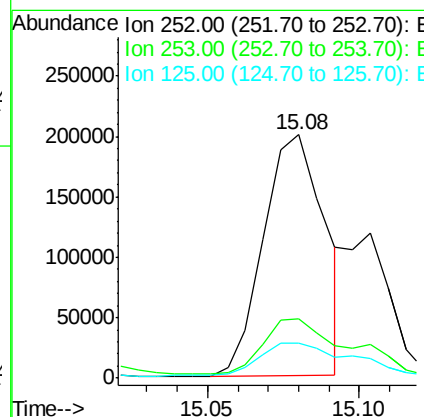
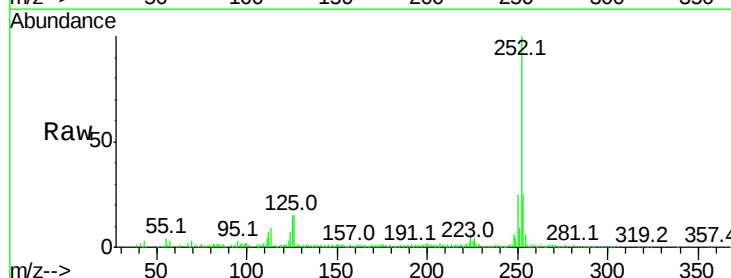
Manual Integrations
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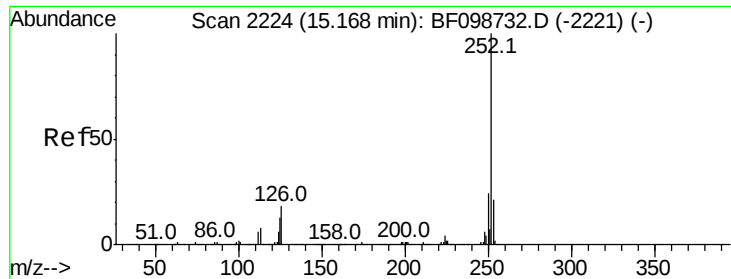
Sohil
10/11/2017 7:24:12 PM



#87
Benzo(b)fluoranthene
Concen: 33.428 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.0	25.6
125	14.5	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 13.834 ng/mL

RT: 15.10 min Scan# 2213

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

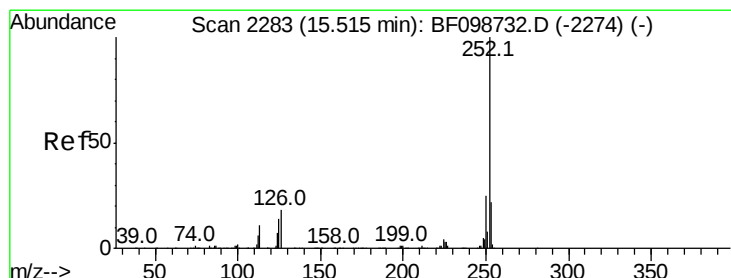
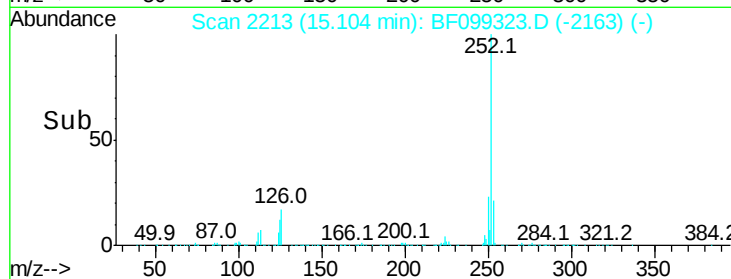
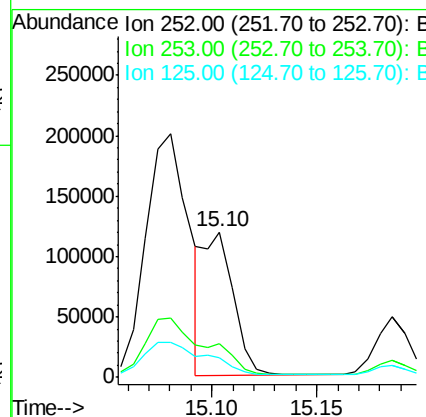
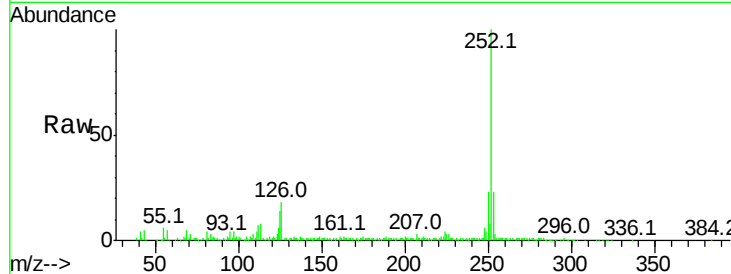
Instrument :
BNA_F

ClientSampleID :
CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	13.8	10.2	15.2

Manual Integrations
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10/11/2017 7:24:12 PM



#89

Benzo(a)pyrene

Concen: 27.840 ng/mL

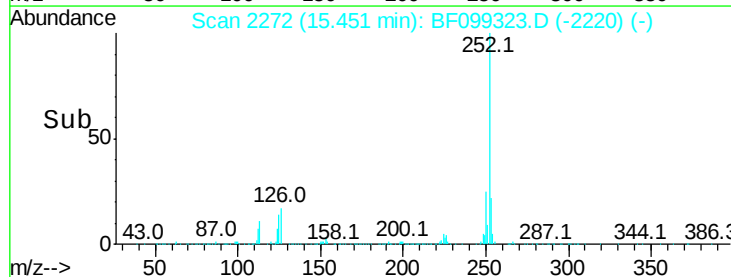
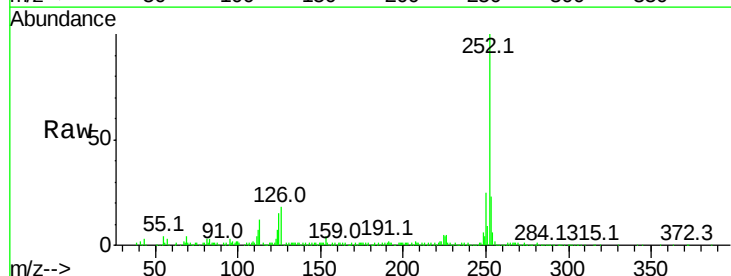
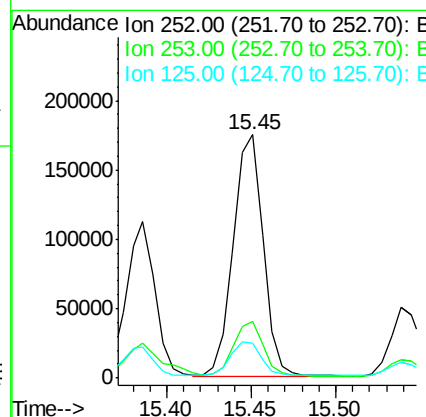
RT: 15.45 min Scan# 2272

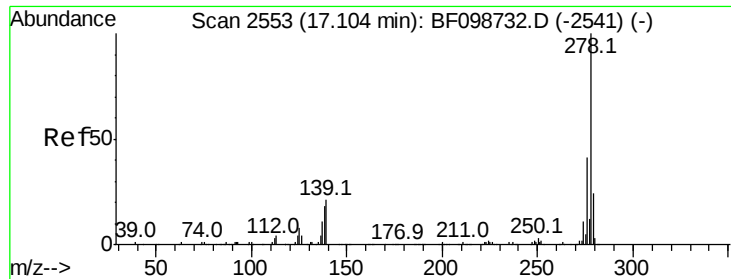
Delta R.T. 0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	14.5	9.8	14.6





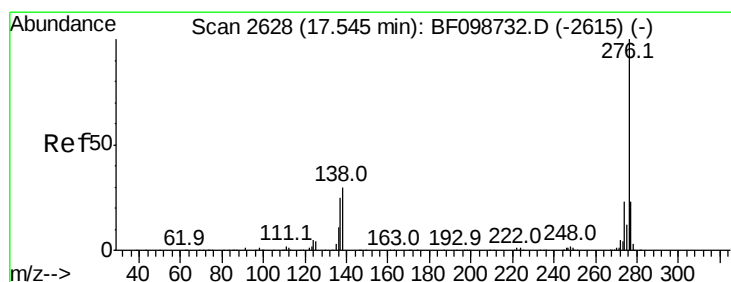
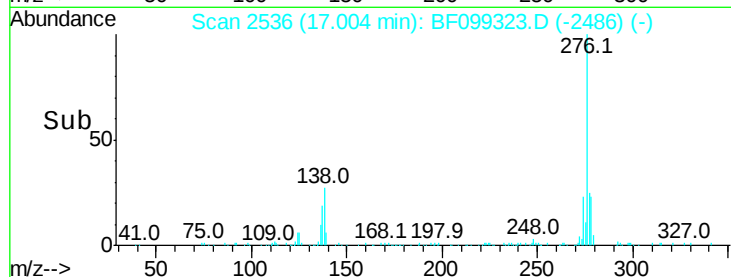
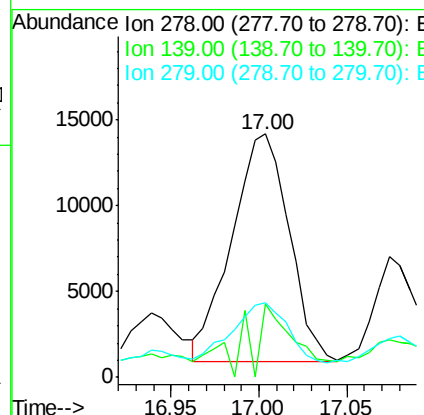
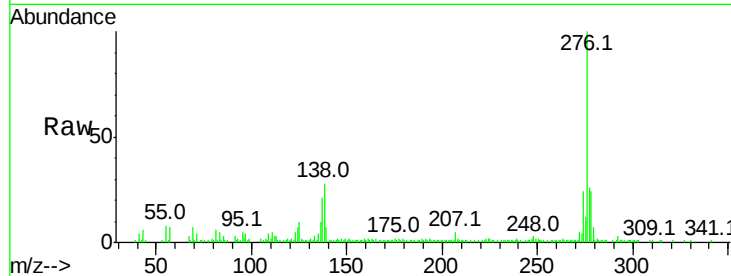
#90
Dibenzo(a,h)anthracene
Concen: 4.849 ng m
RT: 17.00 min Scan# 2536
Delta R.T. -0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Instrument :
BNA_F
ClientSampleId :
CL-01-100617-B

Tot Ion	Ratio	Lower	Upper
278	100		
139	30.4	15.9	23.9#
279	30.9	19.0	28.4#

Manual Integrations
APPROVED

Sohil
10/11/2017 7:24:12 PM



#91
Benzo(g,h,i)perylene
Concen: 17.345 ng
RT: 17.46 min Scan# 2613
Delta R.T. 0.01 min
Lab File: BF099323.D
Acq: 11 Oct 2017 2:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	17.9	26.9
138	31.6	21.8	32.8

