

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\
 Data File : BF103641.D
 Acq On : 14 Mar 2018 15:32
 Operator : SJ/JU
 Sample : J1754-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-031318-B

Manual Integrations
 APPROVED

Sohil
 3/15/2018 6:57:07 PM

Quant Time: Mar 15 08:58:47 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 14 18:08:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	118115	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	500814	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	208745	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	297586	20.00	ng	0.00
75) Chrysene-d12	14.06	240	196066	20.00	ng	0.00
86) Perylene-d12	15.57	264	171621	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	600015m	76.83	ng	0.00
7) Phenol-d6	6.50	99	730569m	76.45	ng	0.00
23) Nitrobenzene-d5	7.43	82	438863	50.04	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	83964	47.52	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	683171	51.03	ng	0.00
78) Terphenyl-d14	12.98	244	418723	51.34	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	573023	23.371	ng	99
37) 2-Methylnaphthalene	8.85	142	350031	22.089	ng	98
45) 1,1'-Biphenyl	9.32	154	69601	3.979	ng	97
48) Acenaphthylene	9.76	152	253361	11.899	ng	97
51) Acenaphthene	9.93	154	63761	5.136	ng	94
54) Dibenzofuran	10.11	168	72594	4.259	ng	# 90
57) Fluorene	10.45	166	312826	21.547	ng	99
70) Phenanthrene	11.42	178	1332106	81.340	ng	99
71) Anthracene	11.47	178	342523	20.396	ng	98
72) Carbazole	11.65	167	43809	2.620	ng	# 84
73) Di-n-butylphthalate	11.94	149	131009	6.260	ng	97
74) Fluoranthene	12.62	202	760014	46.181	ng	99
77) Pyrene	12.85	202	987248	64.583	ng	99
80) Benzo(a)anthracene	14.04	228	425639m	33.458	ng	
82) Chrysene	14.09	228	364766	29.530	ng	96
85) Indeno(1,2,3-cd)pyrene	17.14	276	106151	10.855	ng	93
87) Benzo(b)fluoranthene	15.13	252	247181m	21.906	ng	
88) Benzo(k)fluoranthene	15.14	252	115439m	10.864	ng	
89) Benzo(a)pyrene	15.52	252	253845	25.192	ng	# 92
90) Dibenzo(a,h)anthracene	17.13	278	23363	3.001	ng	# 50
91) Benzo(g,h,i)perylene	17.61	276	115580	15.188	ng	92

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

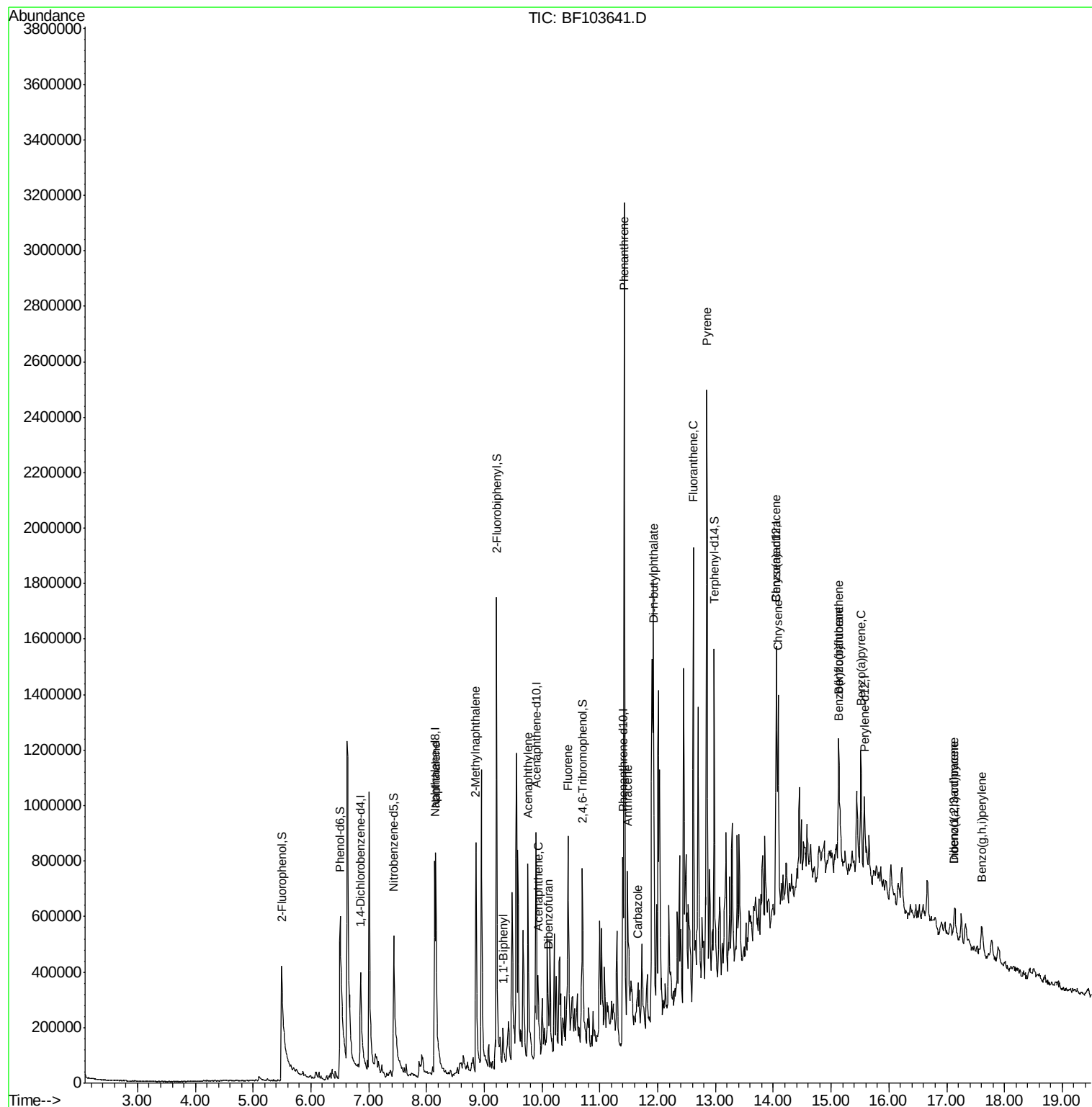
Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\
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ALS Vial : 6 Sample Multiplier: 1

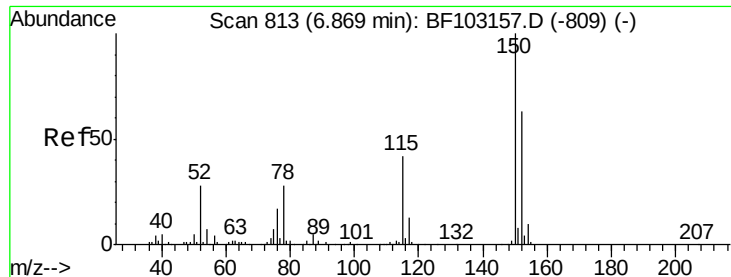
Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

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#1

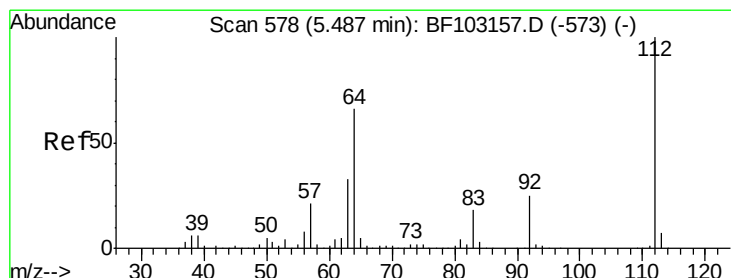
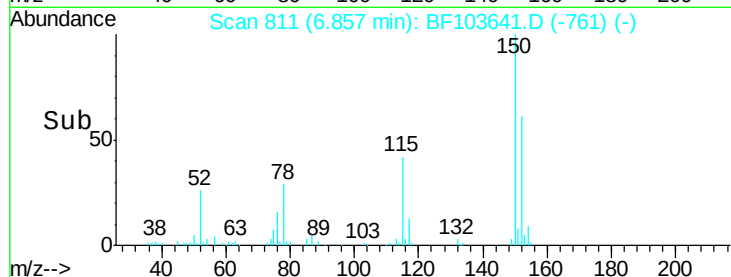
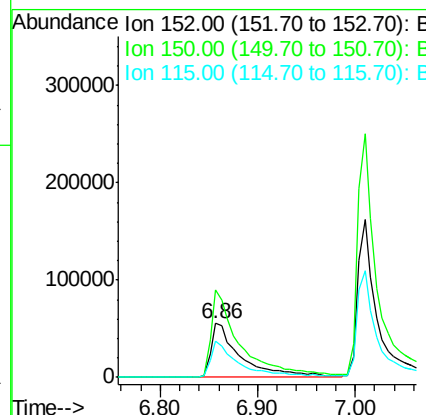
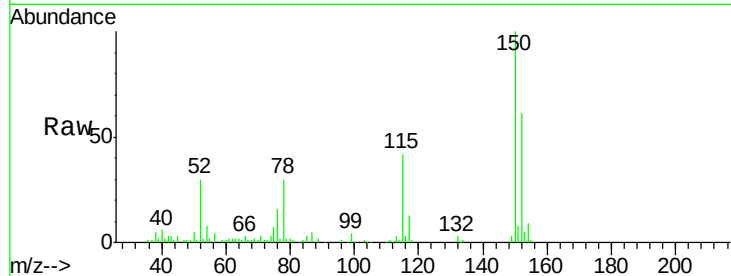
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. -0.01 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
152	100		
150	164.0	124.6	186.8
115	68.4	50.1	75.1

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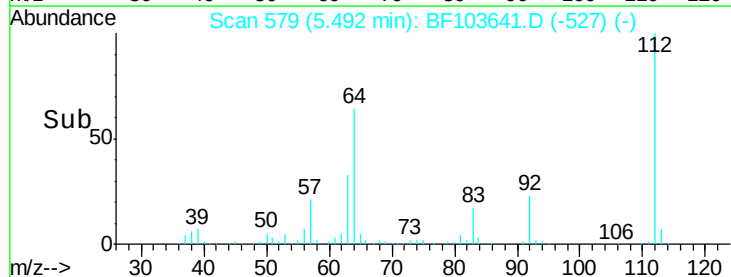
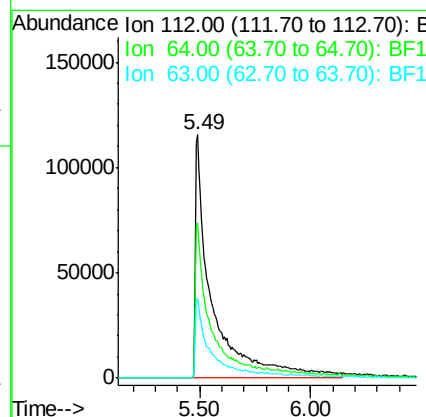
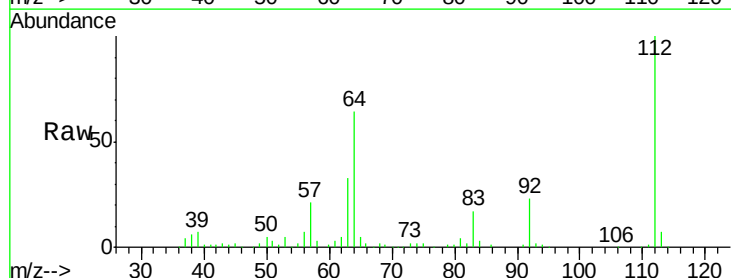
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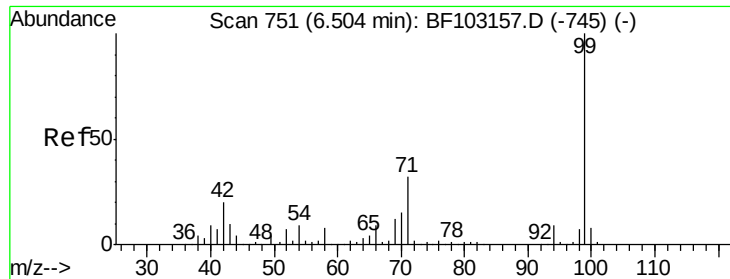


#5

2-Fluorophenol
Concen: 76.830 ng m
RT: 5.49 min Scan# 579
Delta R.T. 0.01 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.0	47.9	71.9
63	32.9	23.7	35.5





#7

Phenol-d6

Concen: 76.449 ng/mL

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Instrument :

BNA_F

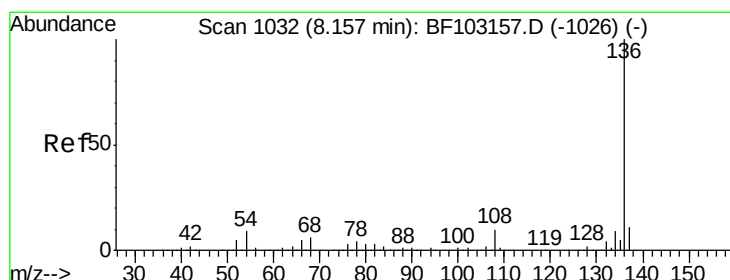
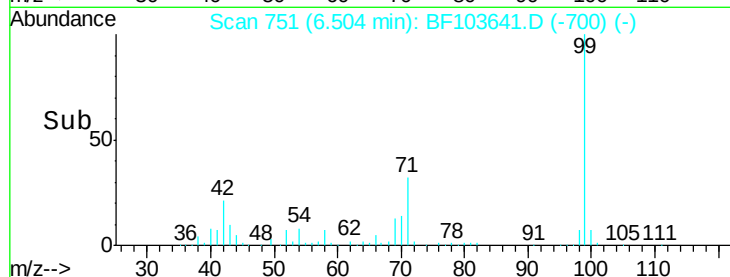
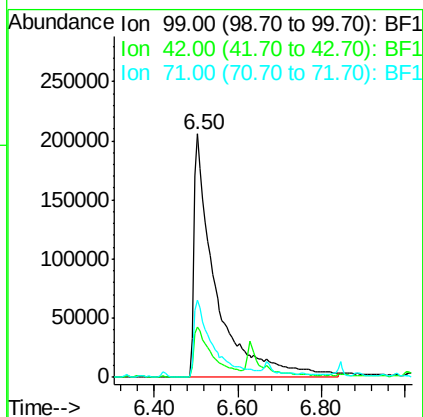
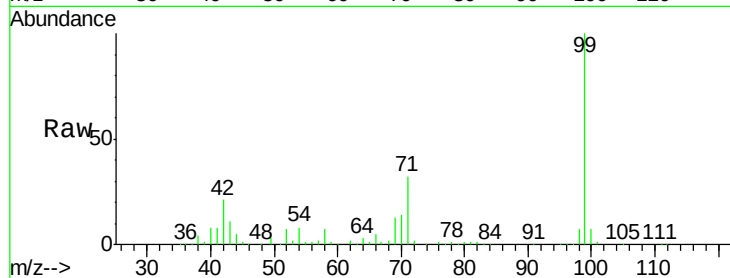
ClientSampleID :

CL-01-031318-B

Tot Ion:	99	Resp:	730569
Ion	Ratio	Lower	Upper
99	100		
42	20.9	14.5	21.7
71	31.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng/mL

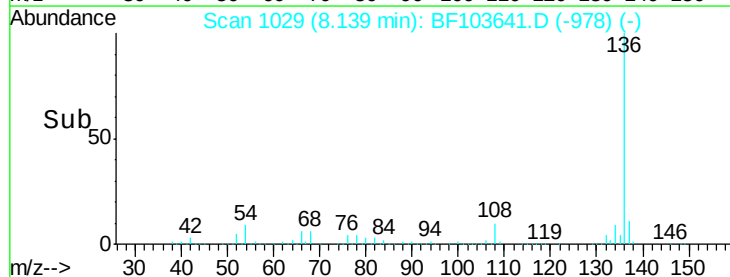
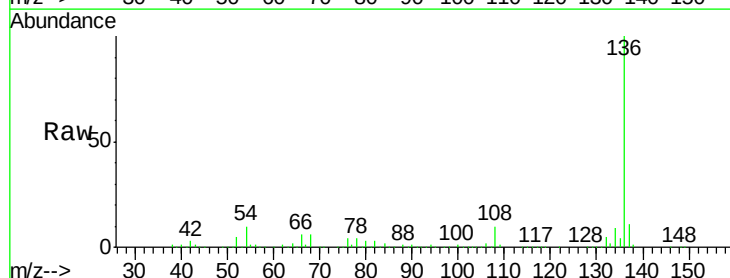
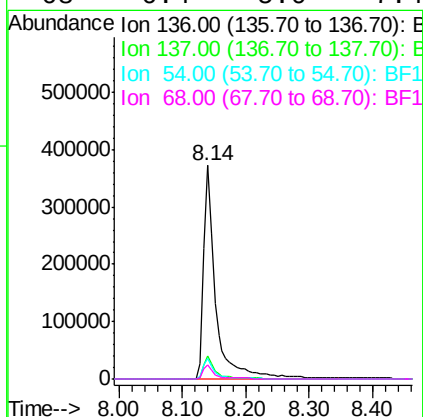
RT: 8.14 min Scan# 1029

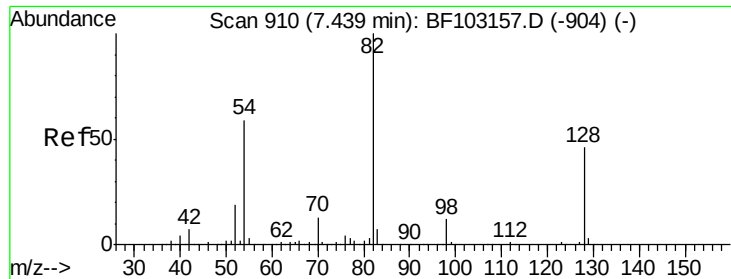
Delta R.T. -0.00 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Tgt Ion:	136	Resp:	500814
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.9	13.3
54	9.5	6.6	9.8
68	6.4	5.0	7.4





#23

Nitrobenzene-d5

Concen: 50.044 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.00 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Instrument :

BNA_F

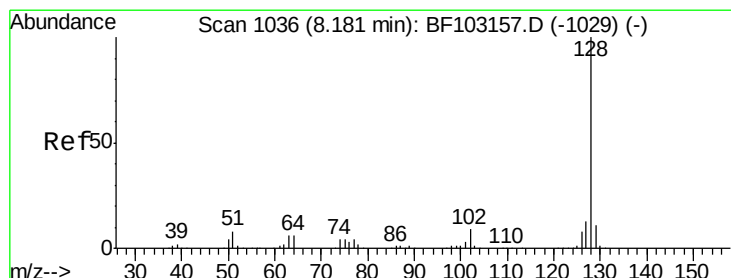
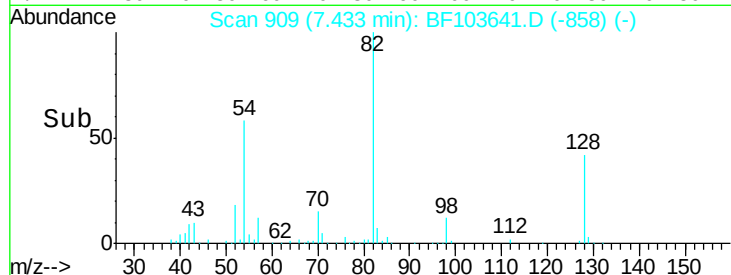
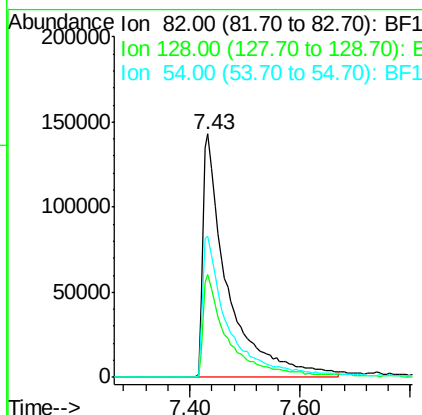
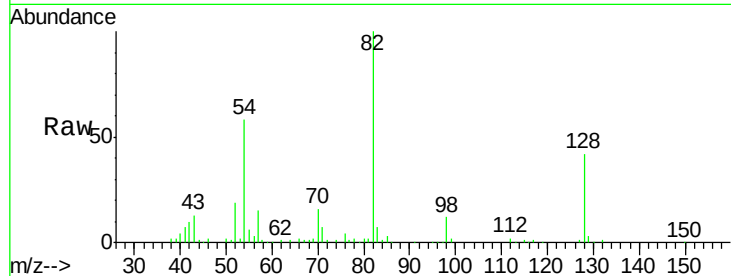
ClientSampleId :

CL-01-031318-B

Tot Ion:	82	Resp:	438863
Ion Ratio	Lower	Upper	
82	100		
128	42.1	36.1	54.1
54	58.1	41.4	62.2

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#31

Naphthalene

Concen: 23.371 ng

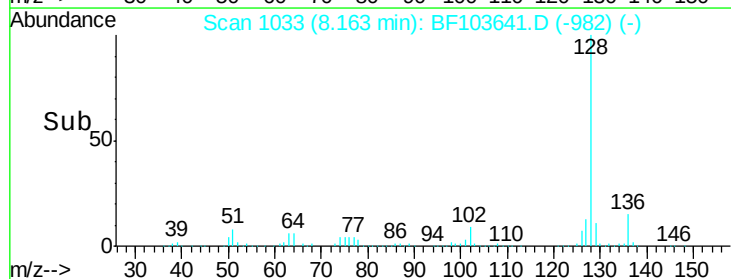
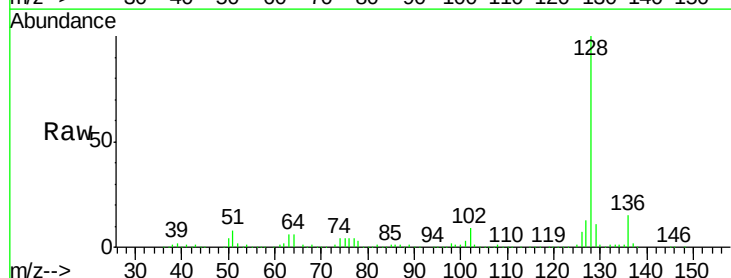
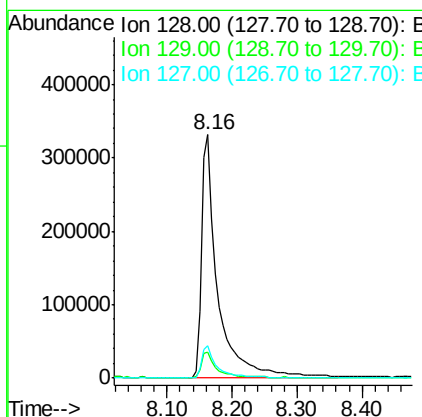
RT: 8.16 min Scan# 1033

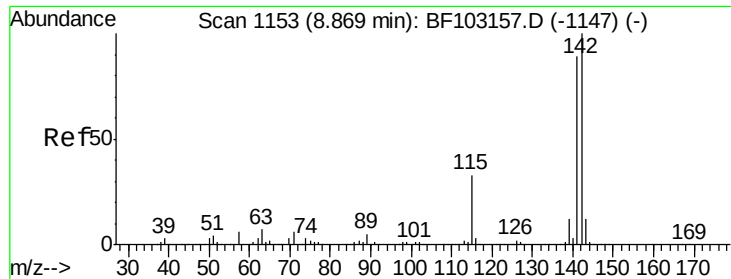
Delta R.T. -0.00 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Tgt Ion:	128	Resp:	573023
Ion Ratio	Lower	Upper	
128	100		
129	10.9	8.8	13.2
127	13.1	10.9	16.3





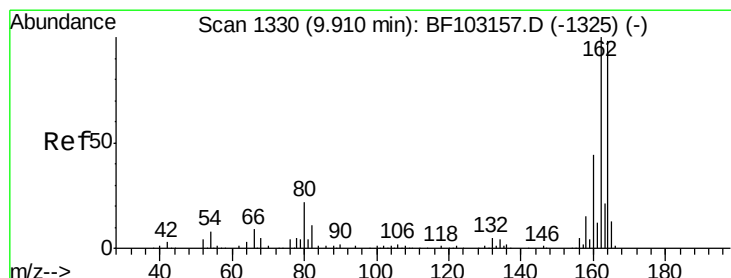
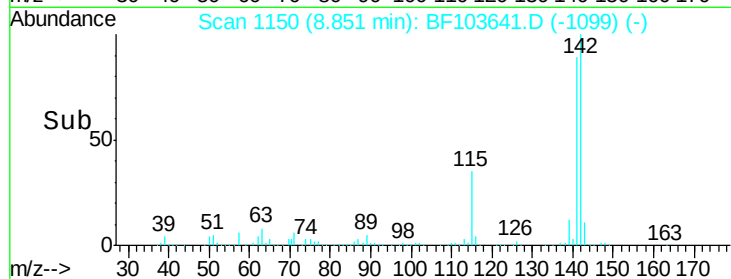
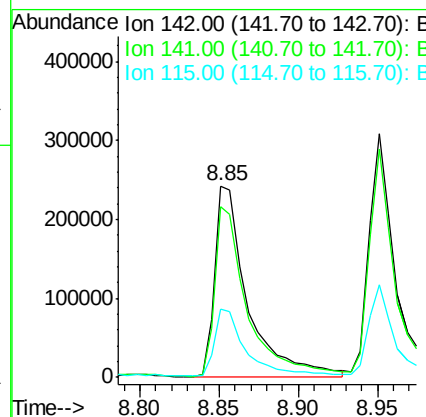
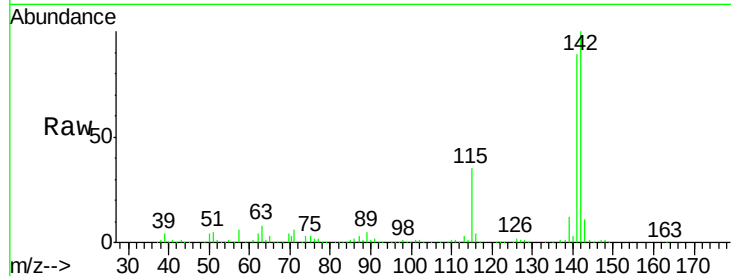
#37
2-Methylnaphthalene
Concen: 22.089 ng
RT: 8.85 min Scan# 1150
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.8	106.2
115	35.4	26.1	39.1

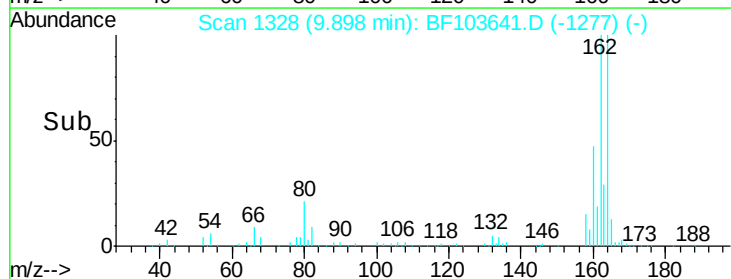
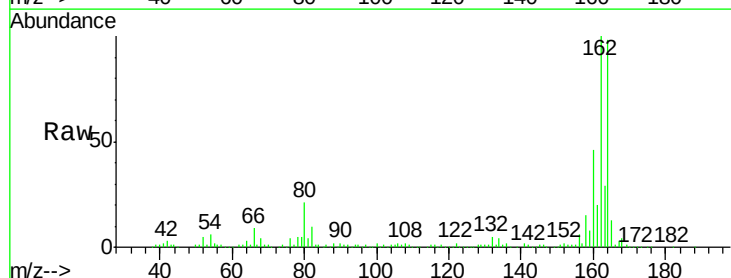
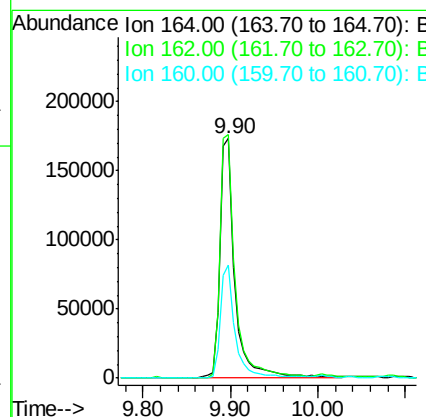
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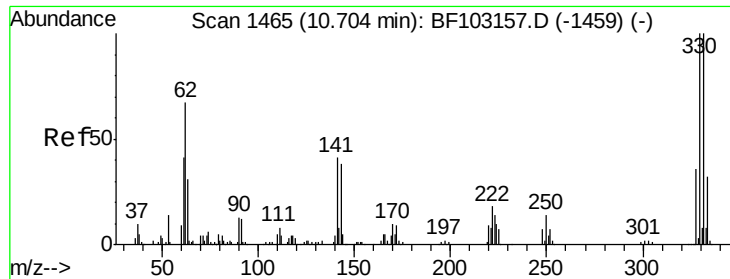
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	86.1	129.1
160	47.2	38.3	57.5





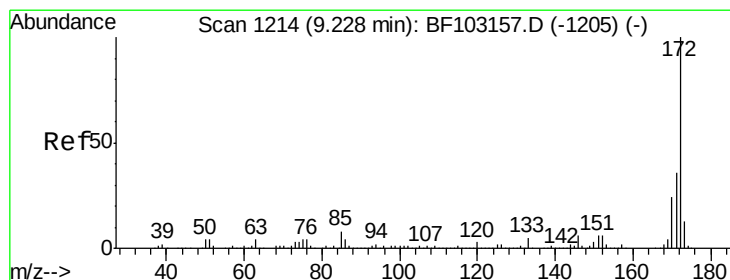
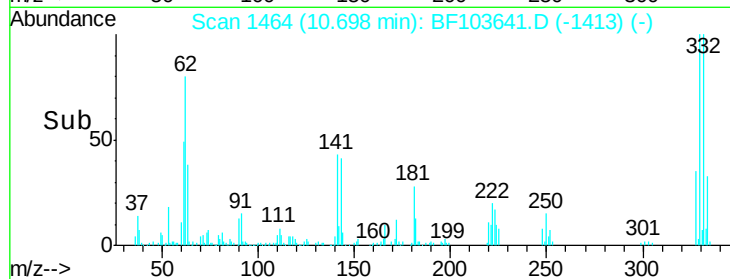
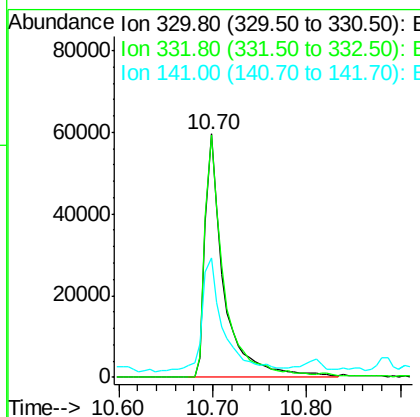
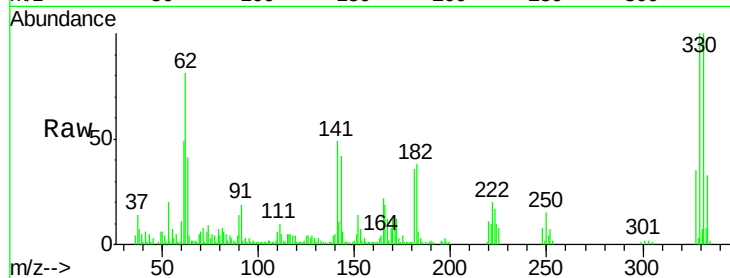
#41
 2,4,6-Tribromophenol
 Concen: 47.520 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.00 min
 Lab File: BF103641.D
 Acq: 14 Mar 2018 15:32

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-031318-B

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.1	77.0	115.6
141	50.8	29.9	44.9

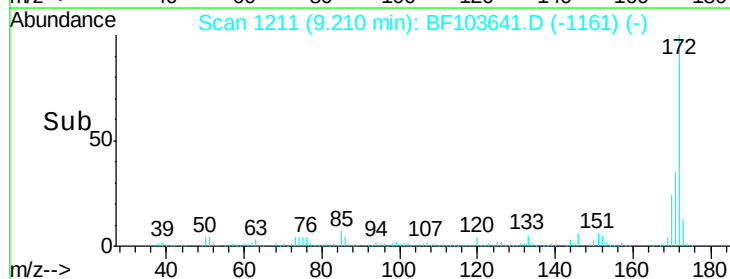
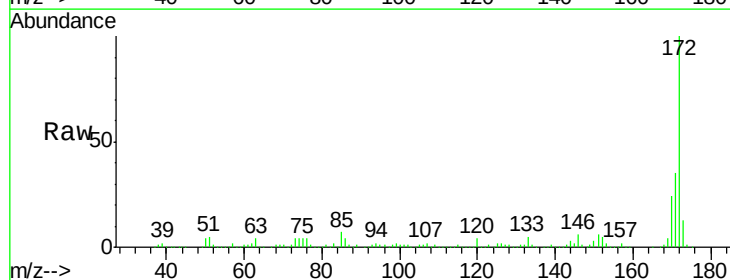
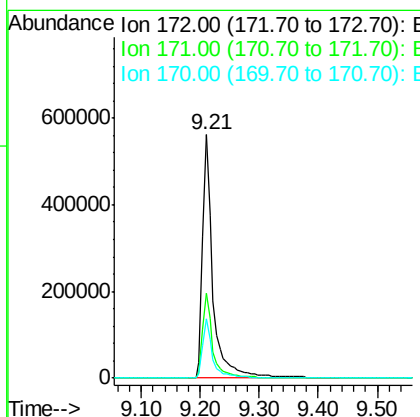
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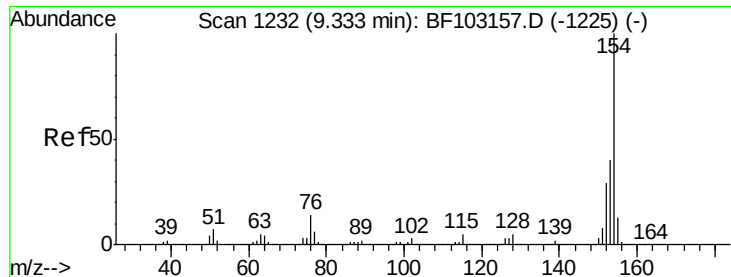
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#44
 2-Fluorobiphenyl
 Concen: 51.026 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF103641.D
 Acq: 14 Mar 2018 15:32

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.7	44.5
170	24.3	19.6	29.4





#45

1,1'-Biphenyl

Concen: 3.979 ng

RT: 9.32 min Scan# 1230

Delta R.T. 0.01 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Instrument :

BNA_F

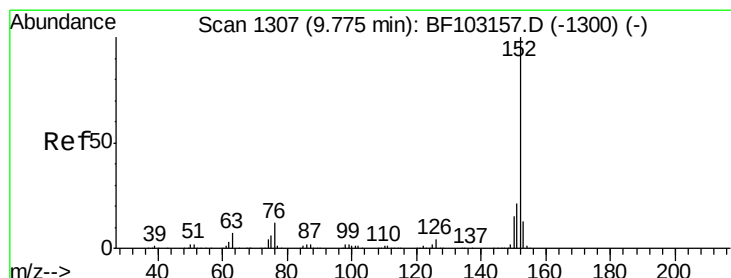
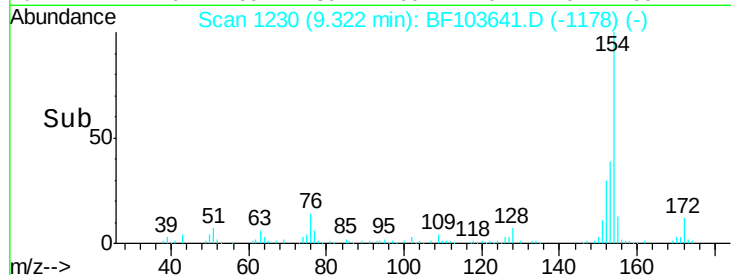
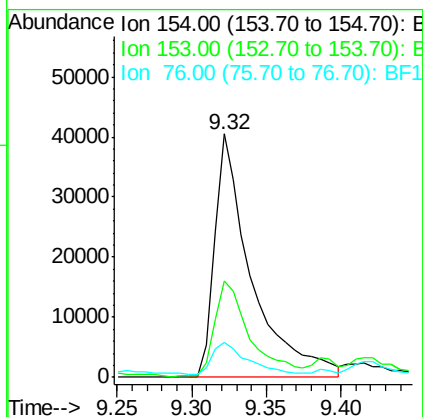
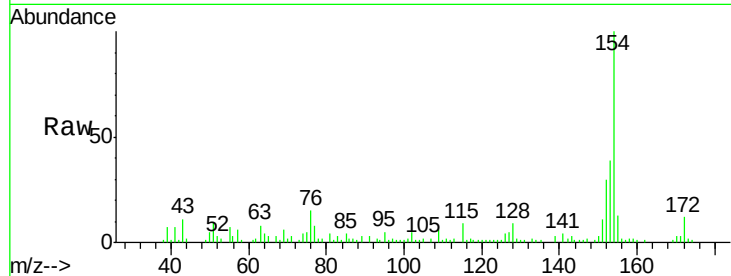
ClientSampled :

CL-01-031318-B

Tot Ion:	154	Resp:	69601
Ion Ratio	Lower	Upper	
154	100		
153	39.4	21.3	61.3
76	14.5	0.0	34.0

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#48

Acenaphthylene

Concen: 11.899 ng

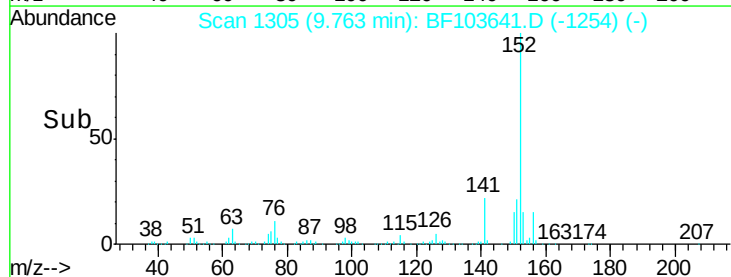
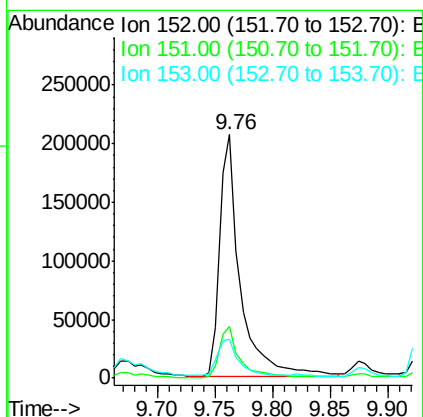
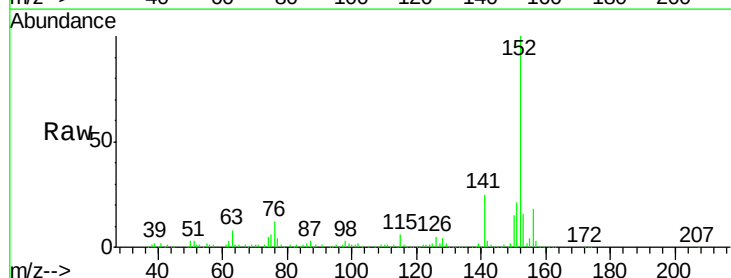
RT: 9.76 min Scan# 1305

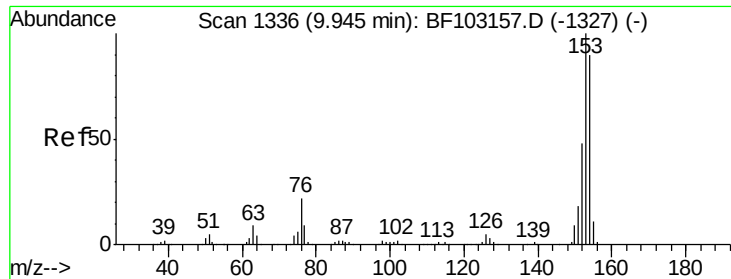
Delta R.T. -0.00 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Tgt Ion:	152	Resp:	253361
Ion Ratio	Lower	Upper	
152	100		
151	21.2	16.3	24.5
153	15.8	10.7	16.1





#51

Acenaphthene

Concen: 5.136 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Instrument :

BNA_F

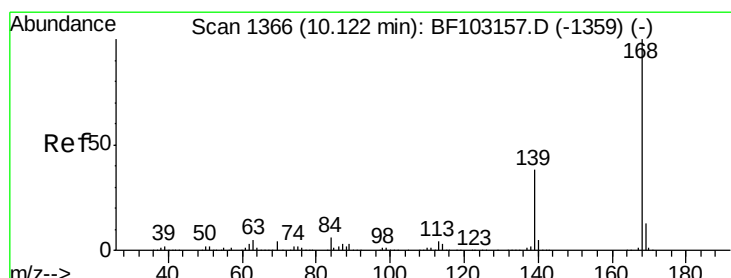
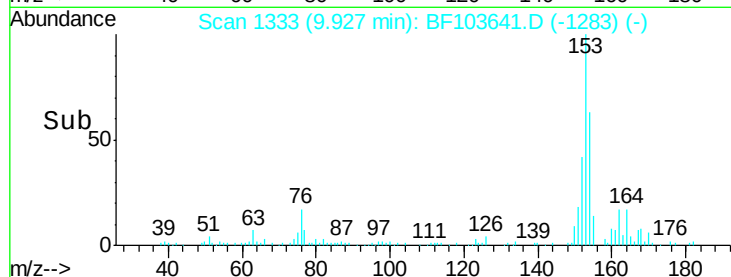
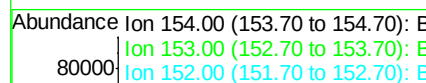
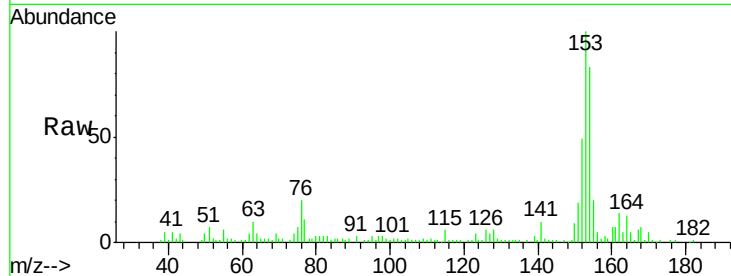
ClientSampleId :

CL-01-031318-B

Tot Ion:	154	Resp:	63761
Ion Ratio	Lower	Upper	
154	100		
153	120.3	91.2	136.8
152	59.0	43.8	65.8

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#54

Dibenzofuran

Concen: 4.259 ng

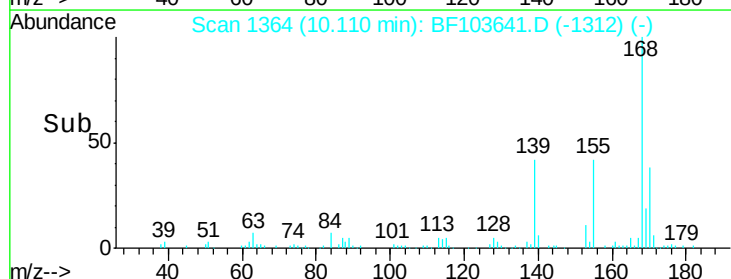
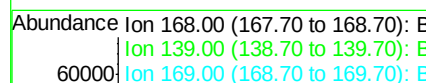
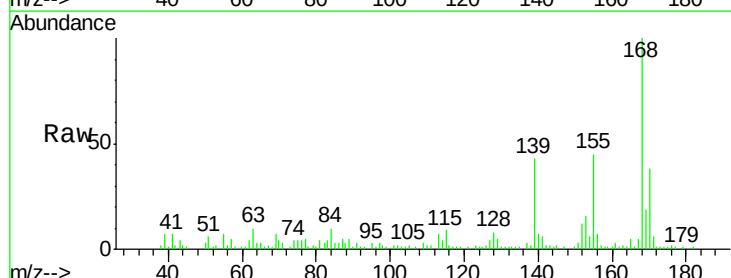
RT: 10.11 min Scan# 1364

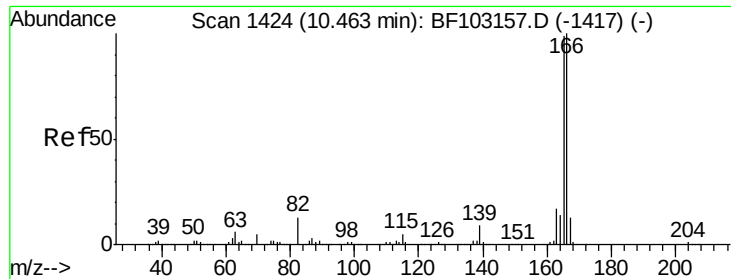
Delta R.T. 0.01 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Tgt Ion:	168	Resp:	72594
Ion Ratio	Lower	Upper	
168	100		
139	43.4	30.1	45.1
169	18.6	10.9	16.3#





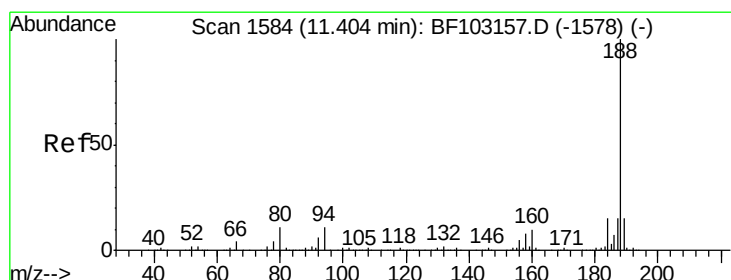
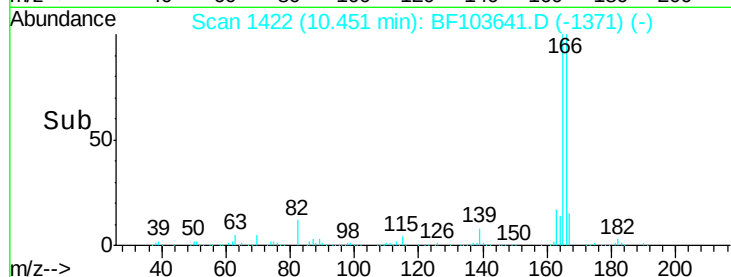
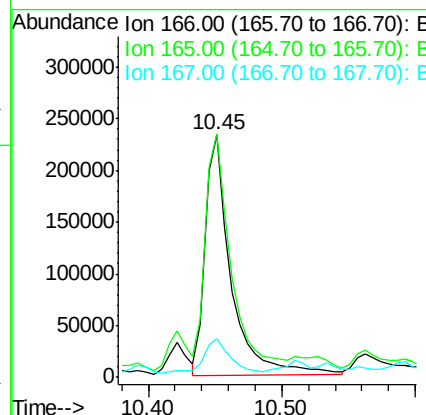
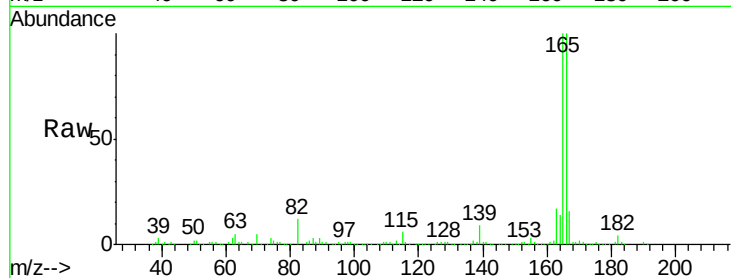
#57
Fluorene
Concen: 21.547 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	100.4	79.8	119.8		
167	15.8	10.6	16.0		

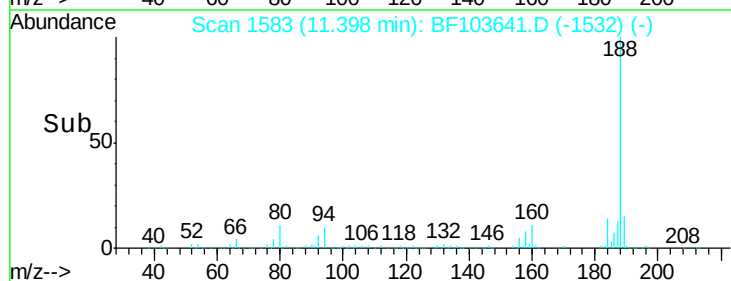
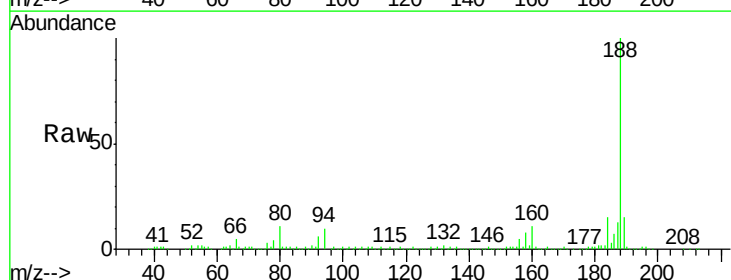
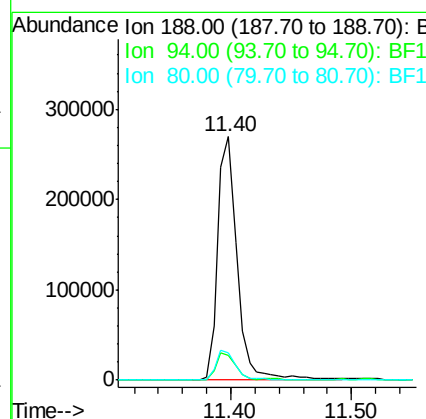
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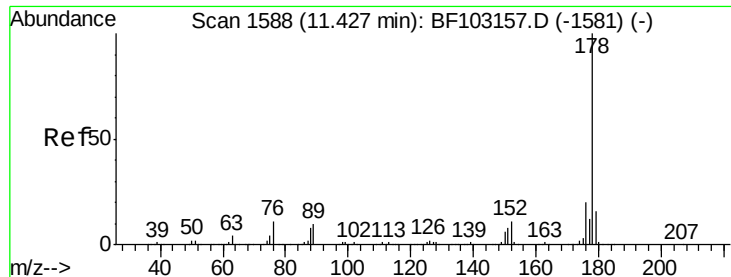
Sohil
3/15/2018 6:57:07 PM



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	10.4	8.5	12.7		
80	11.4	9.2	13.8		





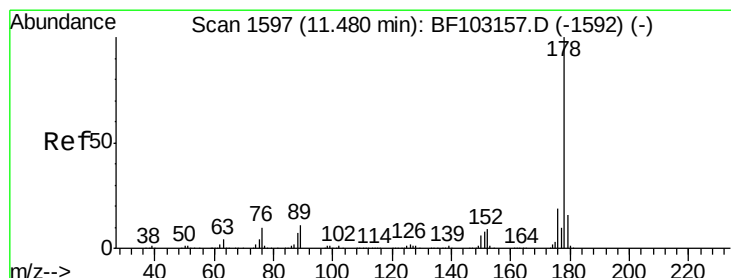
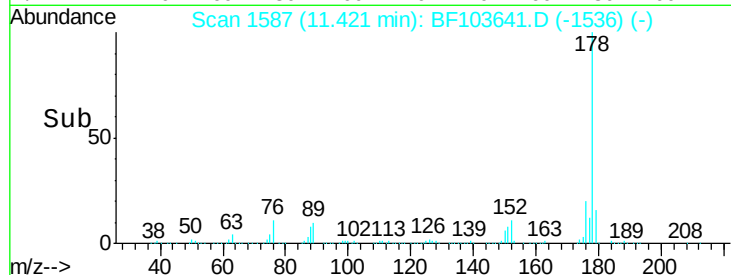
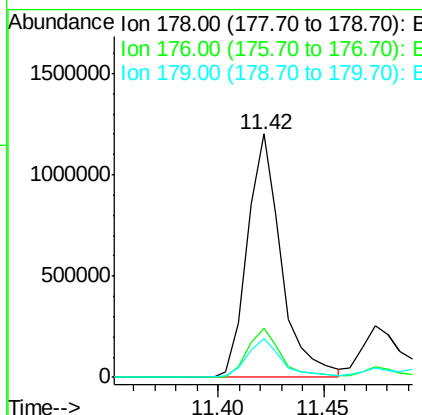
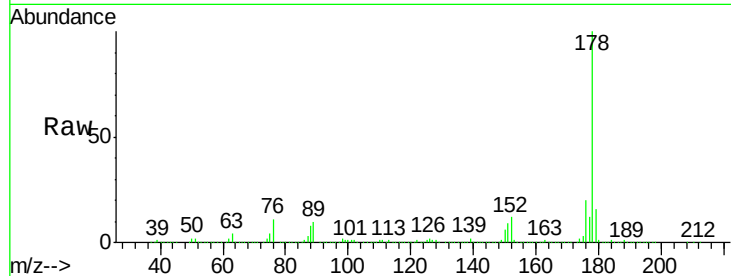
#70
Phenanthrene
Concen: 81.340 ng
RT: 11.42 min Scan# 1587
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.8	23.8
179	16.0	13.0	19.6

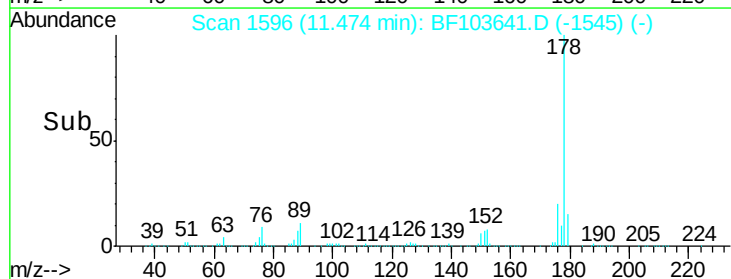
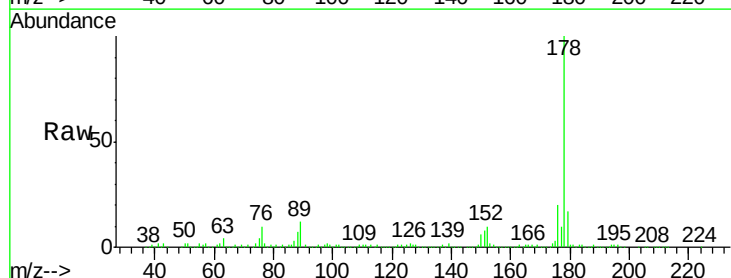
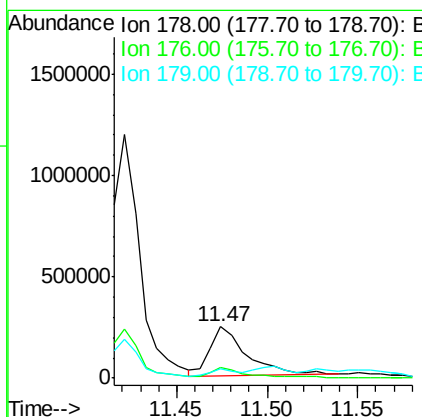
Manual Integrations
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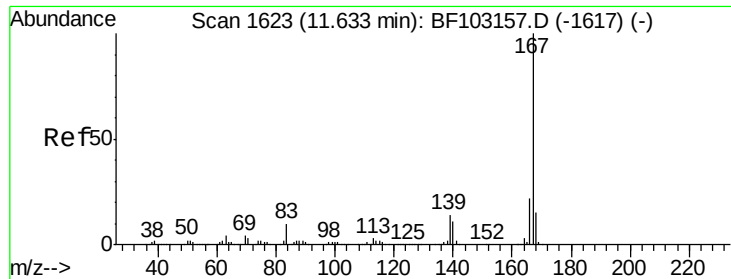
Sohil
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#71
Anthracene
Concen: 20.396 ng
RT: 11.47 min Scan# 1596
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.4	23.2
179	17.0	12.6	19.0





#72

Carbazole

Concen: 2.620 ng

RT: 11.65 min Scan# 1626

Delta R.T. 0.01 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Instrument :

BNA_F

ClientSampleId :

CL-01-031318-B

Tot Ion:167 Resp: 43809

Ion Ratio Lower Upper

167 100

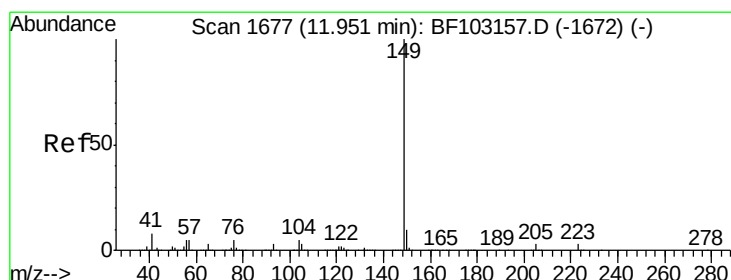
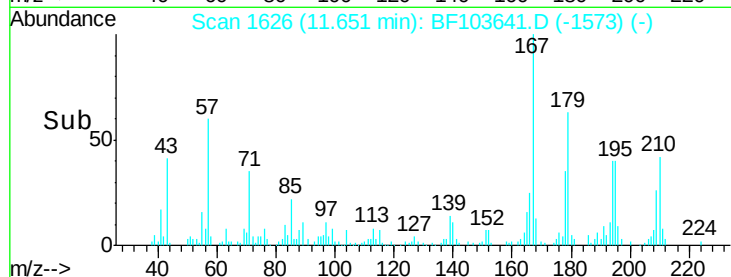
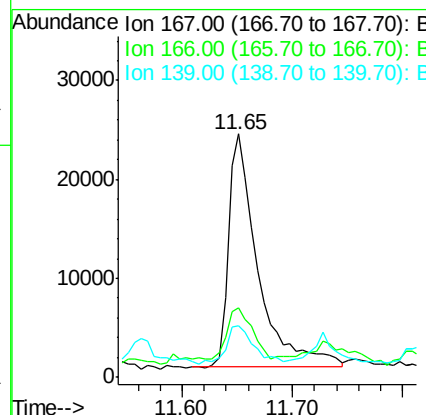
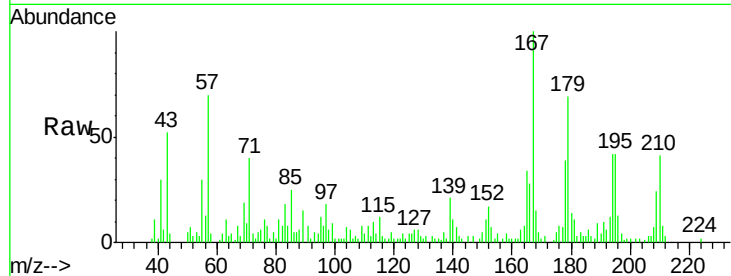
166 28.5 17.6 26.4#

139 21.2 10.9 16.3#

Manual Integrations
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#73

Di-n-butylphthalate

Concen: 6.260 ng

RT: 11.94 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

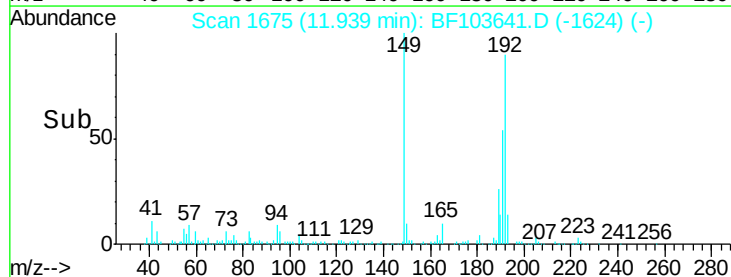
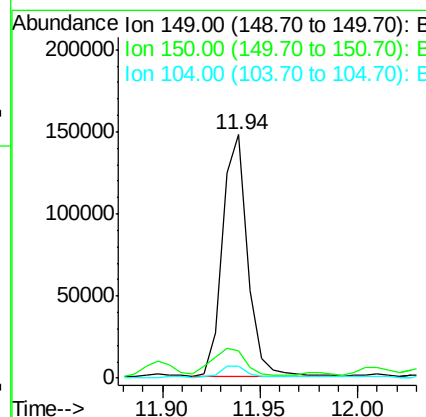
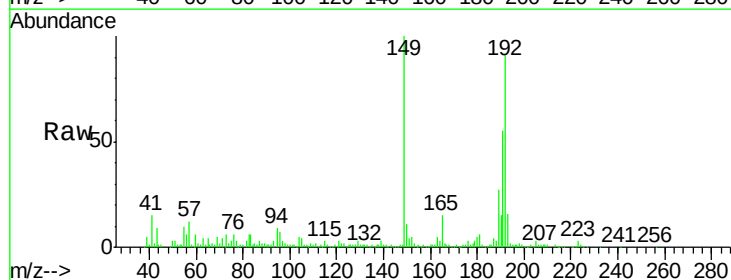
Tgt Ion:149 Resp: 131009

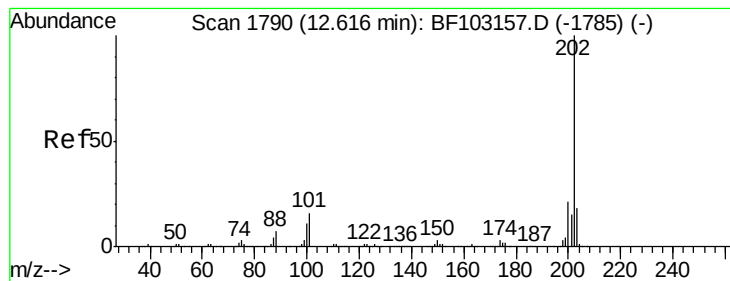
Ion Ratio Lower Upper

149 100

150 11.1 7.8 11.6

104 4.7 3.8 5.8





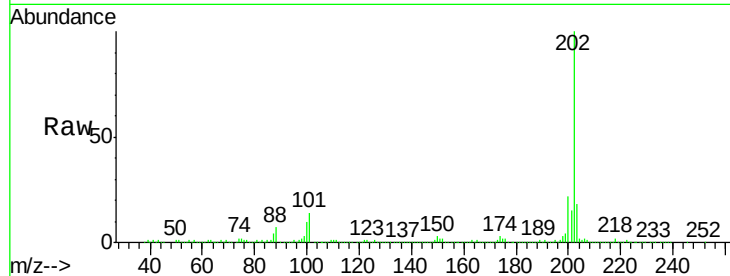
#74
Fluoranthene
Concen: 46.181 ng
RT: 12.62 min Scan# 1791
Delta R.T. 0.01 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

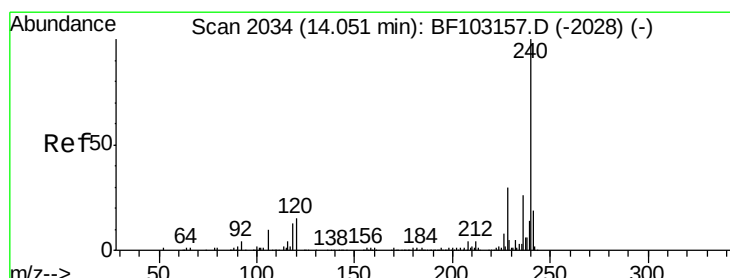
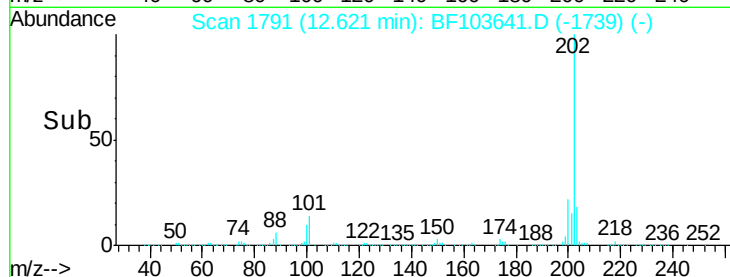
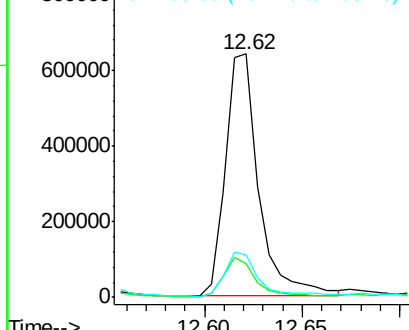
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.6	0.0	34.1
203	17.8	0.0	38.1

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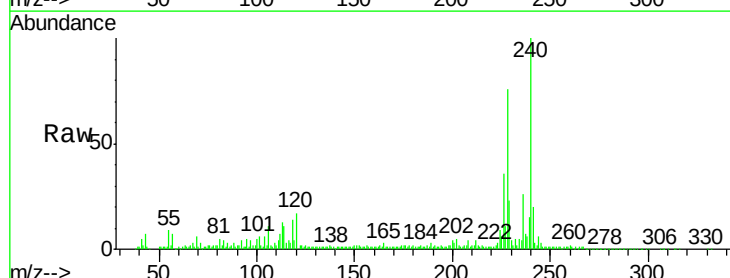


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

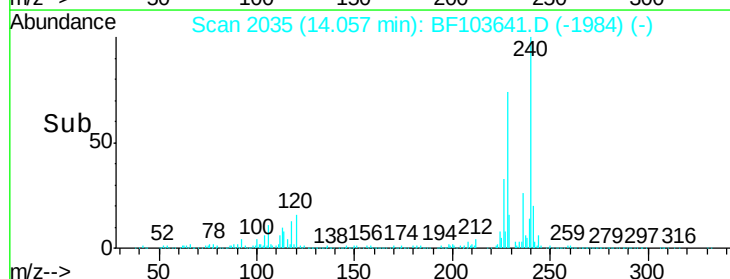
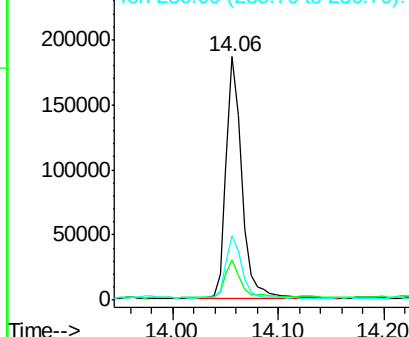


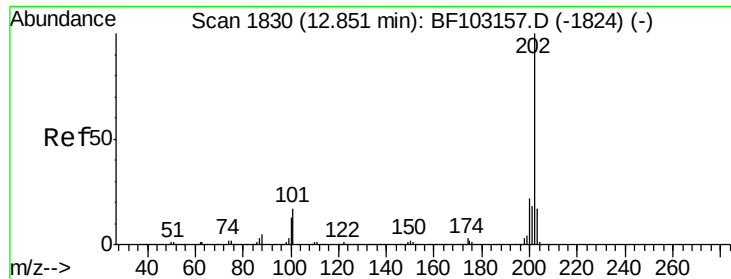
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.06 min Scan# 2035
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	16.6	9.5	14.3#
236	26.5	20.7	31.1



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





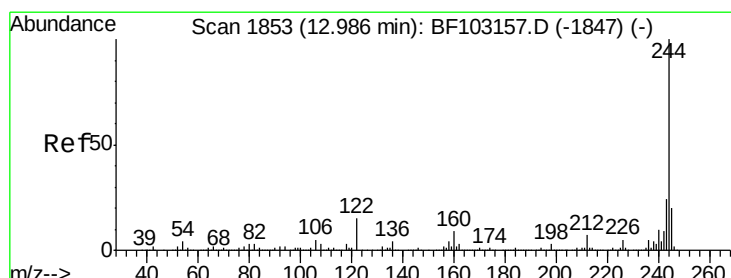
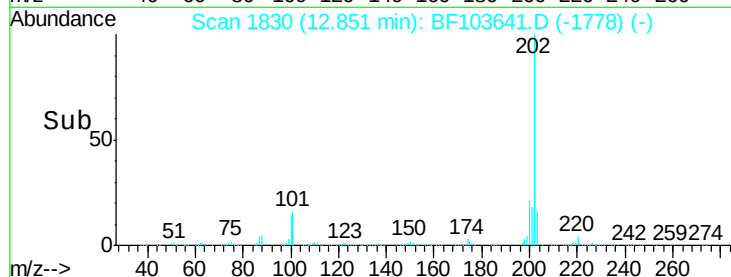
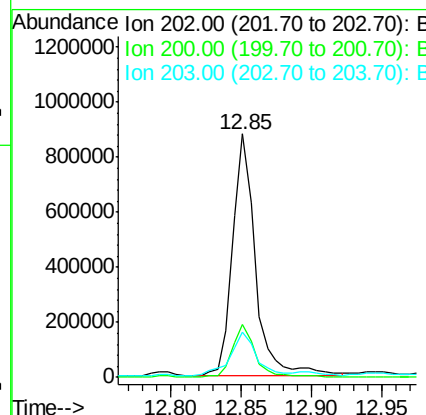
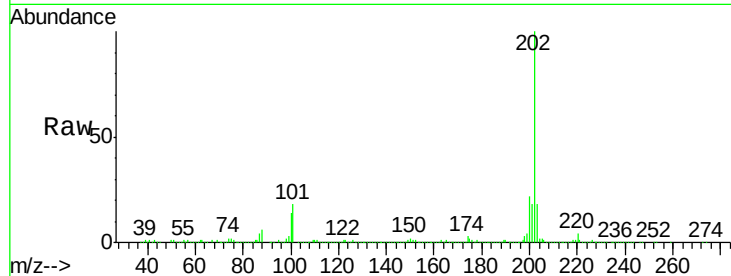
#77
Pvrene
Concen: 64.583 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.01 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	18.3	14.3	21.5

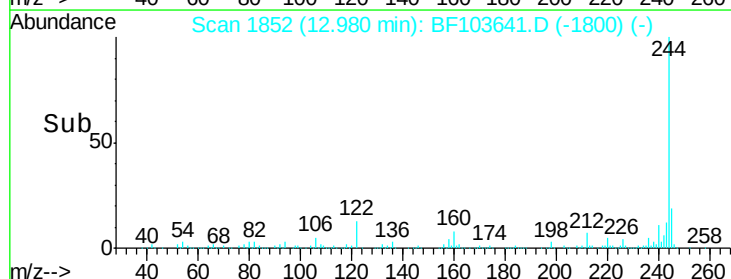
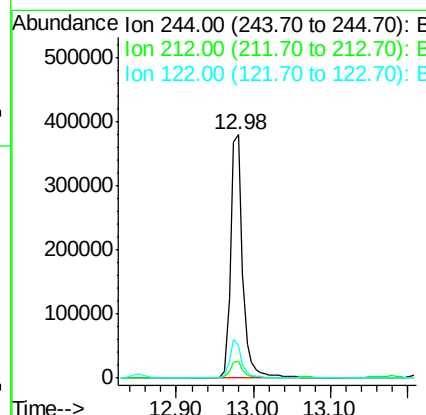
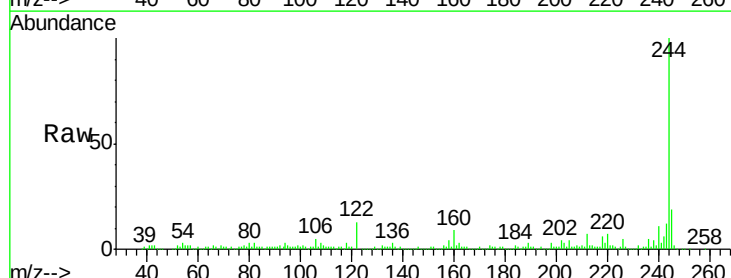
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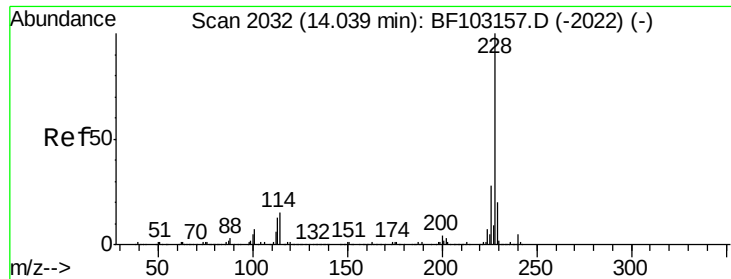
Sohil
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#78
Terphenyl-d14
Concen: 51.338 ng
RT: 12.98 min Scan# 1852
Delta R.T. 0.01 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	13.4	11.0	16.4





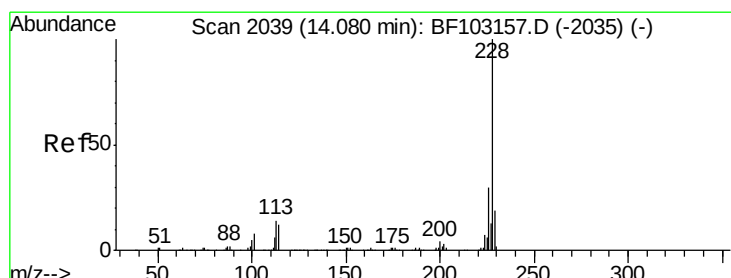
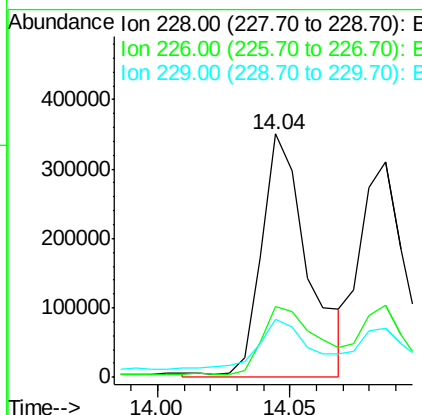
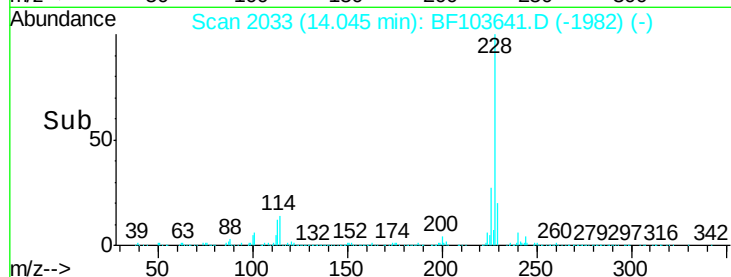
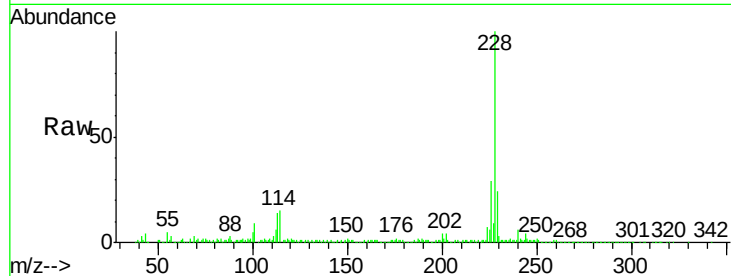
#80
Benzo(a)anthracene
Concen: 33.458 ng m
RT: 14.04 min Scan# 2033
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	23.8	15.8	23.6

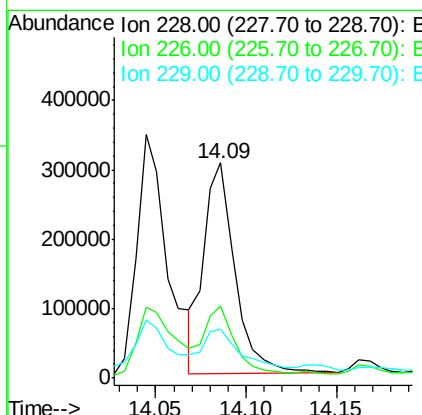
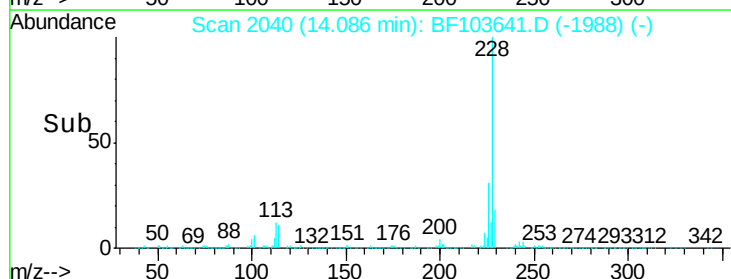
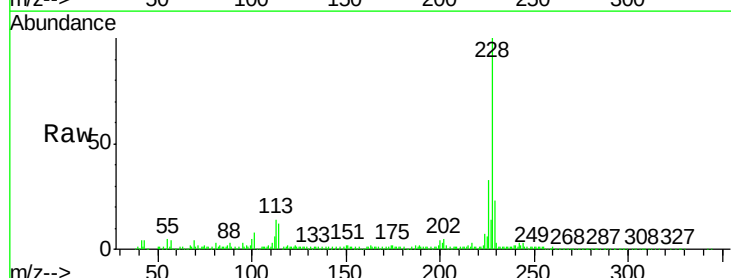
Manual Integrations
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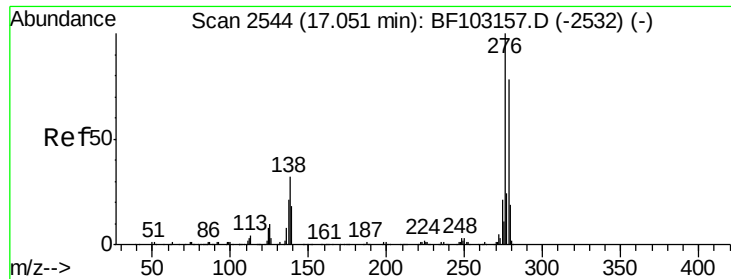
Sohil
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#82
Chrysene
Concen: 29.530 ng
RT: 14.09 min Scan# 2040
Delta R.T. 0.01 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.2	25.0	37.6
229	22.7	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 10.855 ng

RT: 17.14 min Scan# 2559

Delta R.T. 0.03 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Instrument :

BNA_F

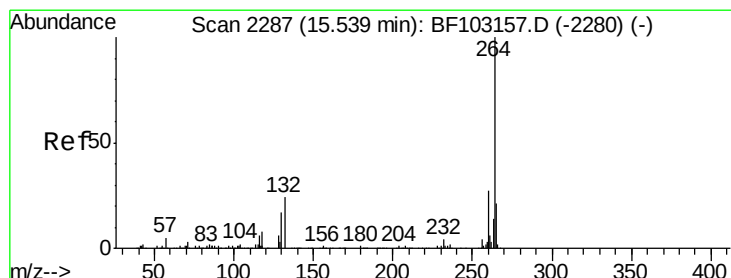
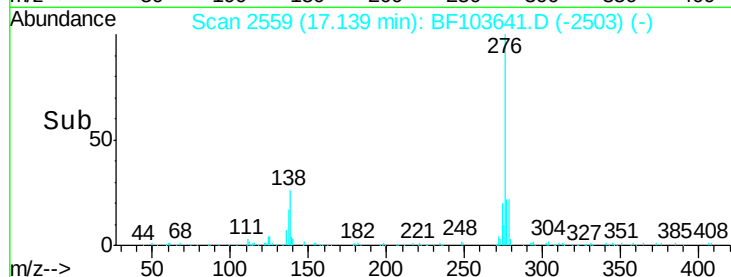
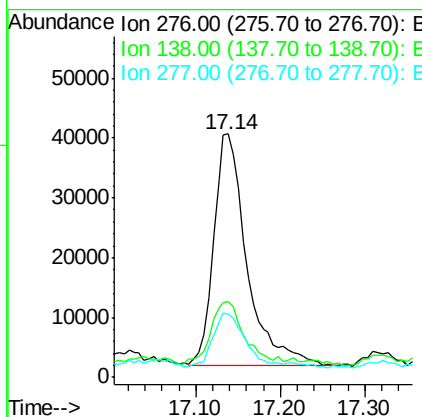
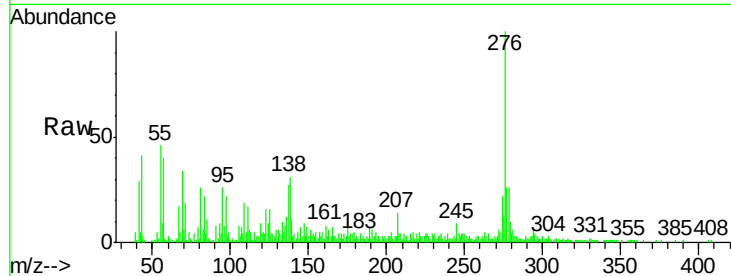
ClientSampled :

CL-01-031318-B

Tot Ion:	276	Resp:	106151
Ion Ratio		Lower	Upper
276	100		
138	27.4	25.0	37.6
277	21.3	20.1	30.1

Manual Integrations
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#86

Perylene-d12

Concen: 20.000 ng

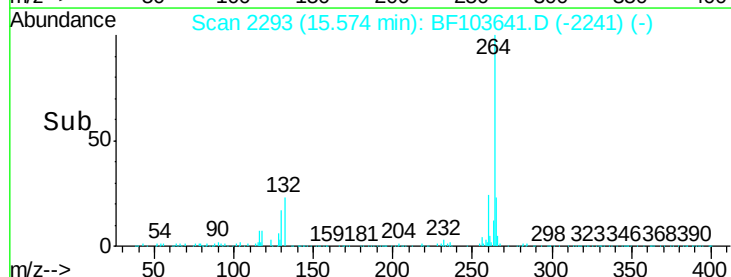
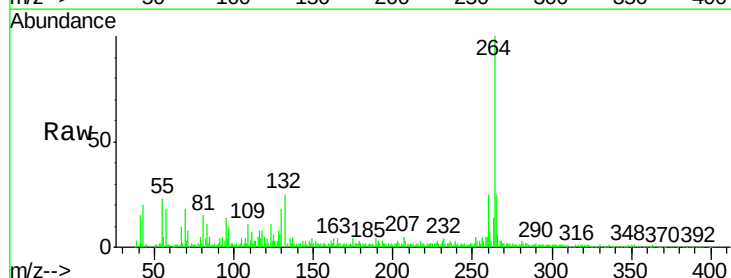
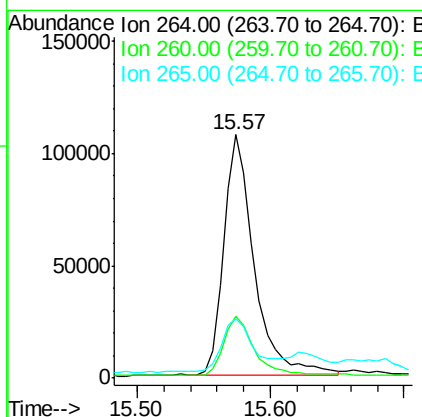
RT: 15.57 min Scan# 2293

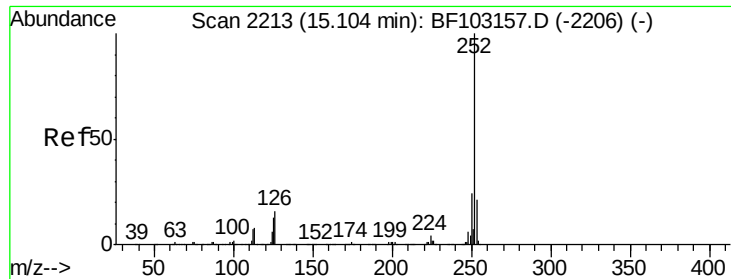
Delta R.T. 0.01 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Tgt Ion:	264	Resp:	171621
Ion Ratio		Lower	Upper
264	100		
260	25.4	19.2	28.8
265	24.5	17.5	26.3





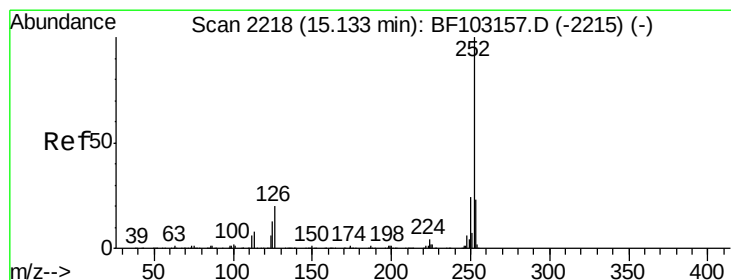
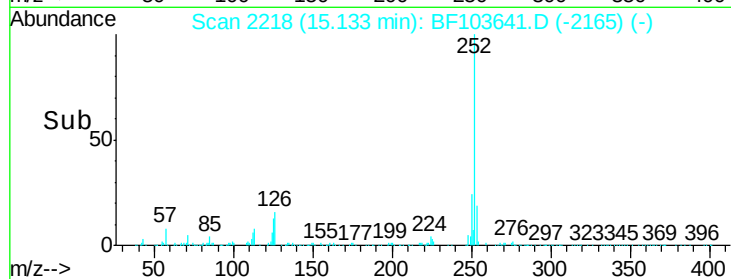
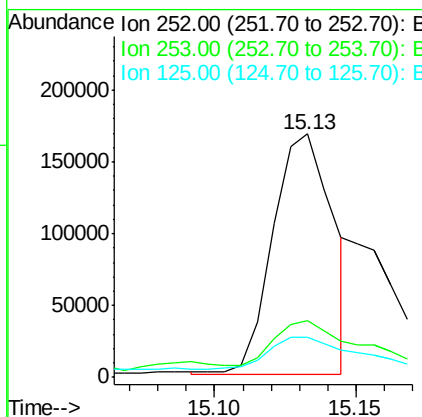
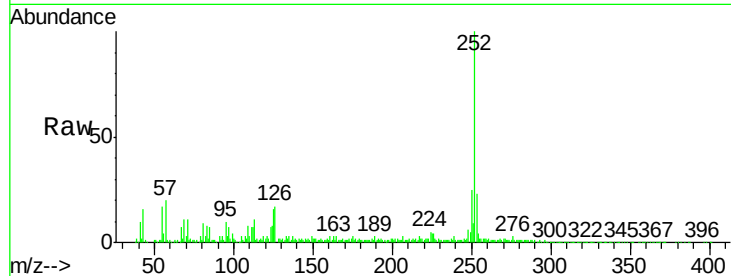
#87
Benzo(b)fluoranthene
Concen: 21.906 ng m
RT: 15.13 min Scan# 2218
Delta R.T. 0.01 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	16.4	9.0	13.6

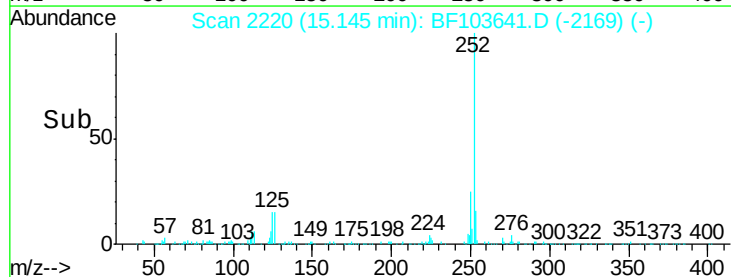
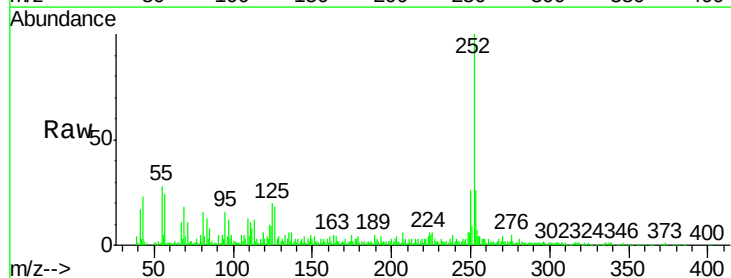
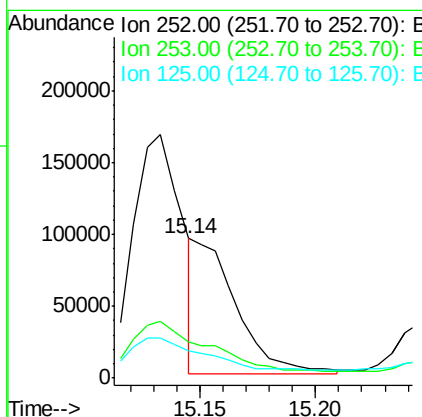
Manual Integrations
APPROVED

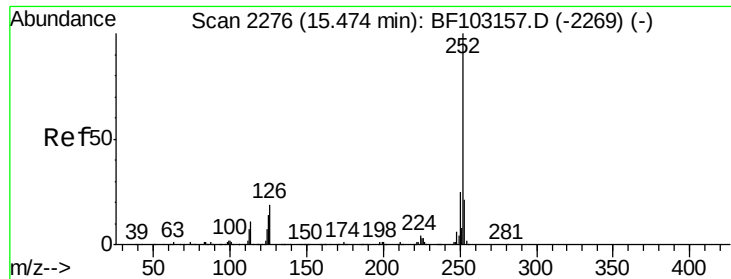
Sohil
3/15/2018 6:57:07 PM



#88
Benzo(k)fluoranthene
Concen: 10.864 ng m
RT: 15.14 min Scan# 2220
Delta R.T. -0.00 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.4	17.9	26.9
125	19.7	10.2	15.2





#89

Benzo(a)pyrene

Concen: 25.192 ng

RT: 15.52 min Scan# 2283

Delta R.T. 0.01 min

Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Instrument :

BNA_F

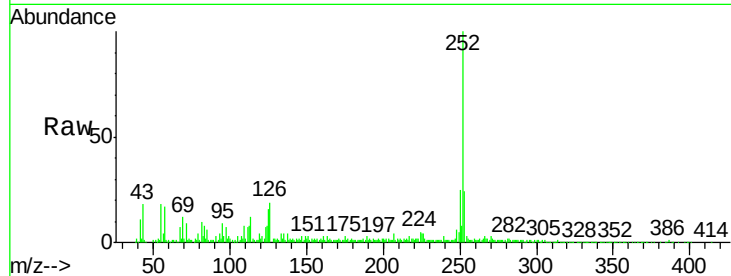
ClientSampleId :

CL-01-031318-B

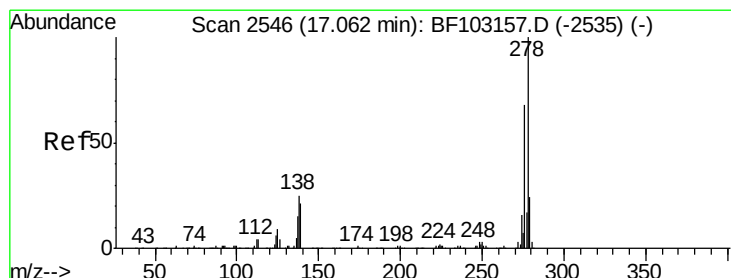
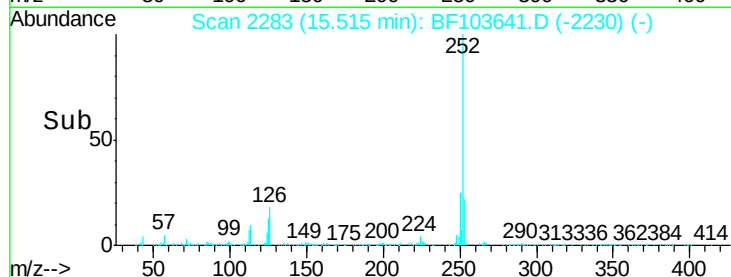
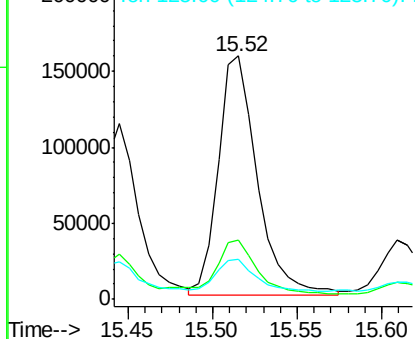
Tot Ion:	252	Resp:	253845
Ion Ratio	Lower	Upper	
252	100		
253	24.4	17.1	25.7
125	16.4	9.8	14.6#

Manual Integrations
APPROVED

Sohil
3/15/2018 6:57:07 PM



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



#90

Dibenzo(a,h)anthracene

Concen: 3.001 ng

RT: 17.13 min Scan# 2557

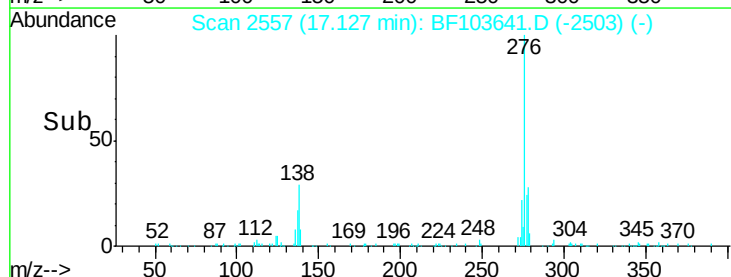
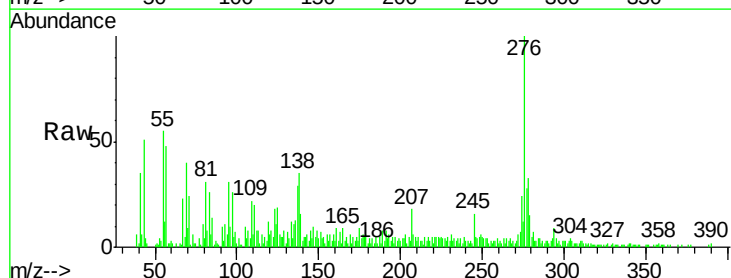
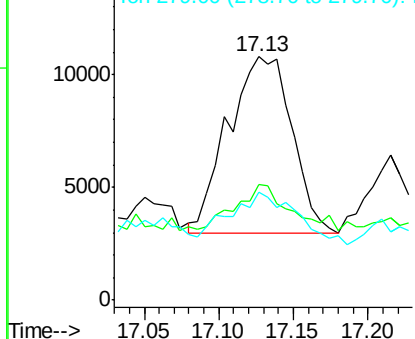
Delta R.T. 0.02 min

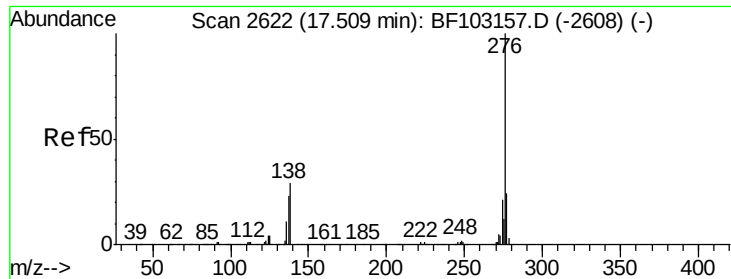
Lab File: BF103641.D

Acq: 14 Mar 2018 15:32

Tgt Ion:	278	Resp:	23363
Ion Ratio	Lower	Upper	
278	100		
139	47.5	15.9	23.9#
279	44.4	19.0	28.4#

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





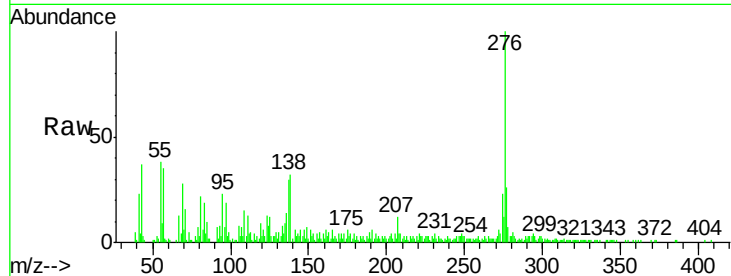
#91
Benzo(a,h,i)perylene
Concen: 15.188 ng
RT: 17.61 min Scan# 2639
Delta R.T. 0.02 min
Lab File: BF103641.D
Acq: 14 Mar 2018 15:32

Instrument :
BNA_F
ClientSampleId :
CL-01-031318-B

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.2	17.9	26.9
138	31.7	21.8	32.8

Manual Integrations
APPROVED

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3/15/2018 6:57:07 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

