

Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
 Data File : BF102425.D
 Acq On : 25 Jan 2018 14:46
 Operator : SJ/JU
 Sample : J1308-02 50X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB70-E-N-8

Manual Integrations
 APPROVED

Sohil
 1/25/2018 5:42:21 PM

Quant Time: Jan 25 15:55:00 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 25 13:44:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	118697	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	459476	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	173542	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	242131	20.00	ng	0.00
75) Chrysene-d12	13.88	240	220978	20.00	ng	0.00
86) Perylene-d12	15.31	264	244063	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	2022	0.26	ng	0.01
7) Phenol-d6	6.37	99	3282	0.35	ng	0.00
23) Nitrobenzene-d5	7.28	82	1879	0.24	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	368	0.21	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	4236	0.36	ng	0.00
78) Terphenyl-d14	12.82	244	4180	0.43	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.03	128	3505410	152.802	ng	98
37) 2-Methylnaphthalene	8.72	142	712728	46.651	ng	99
45) 1,1'-Biphenyl	9.17	154	188491	12.147	ng	97
48) Acenaphthylene	9.62	152	235056	12.509	ng	99
51) Acenaphthene	9.79	154	675839	61.583	ng	100
54) Dibenzofuran	9.96	168	680904	45.844	ng	98
57) Fluorene	10.30	166	720149	61.189	ng	100
70) Phenanthrene	11.27	178	1887603	133.782	ng	98
71) Anthracene	11.32	178	654080	45.418	ng	99
72) Carbazole	11.47	167	212725	15.141	ng	99
74) Fluoranthene	12.46	202	1339620	93.105	ng	99
77) Pylene	12.69	202	1058715	61.967	ng	99
80) Benzo(a)anthracene	13.87	228	624912m	45.933	ng	
82) Chrysene	13.91	228	478833	34.659	ng	99
85) Indeno(1,2,3-cd)pyrene	16.70	276	181281	15.888	ng	95
87) Benzo(b)fluoranthene	14.90	252	565160m	35.727	ng	
88) Benzo(k)fluoranthene	14.92	252	242522m	16.227	ng	
89) Benzo(a)pyrene	15.25	252	452603	31.724	ng	96
90) Dibenzo(a,h)anthracene	16.70	278	51821m	4.484	ng	
91) Benzo(a,h,i)perylene	17.12	276	142264	12.467	ng	94

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

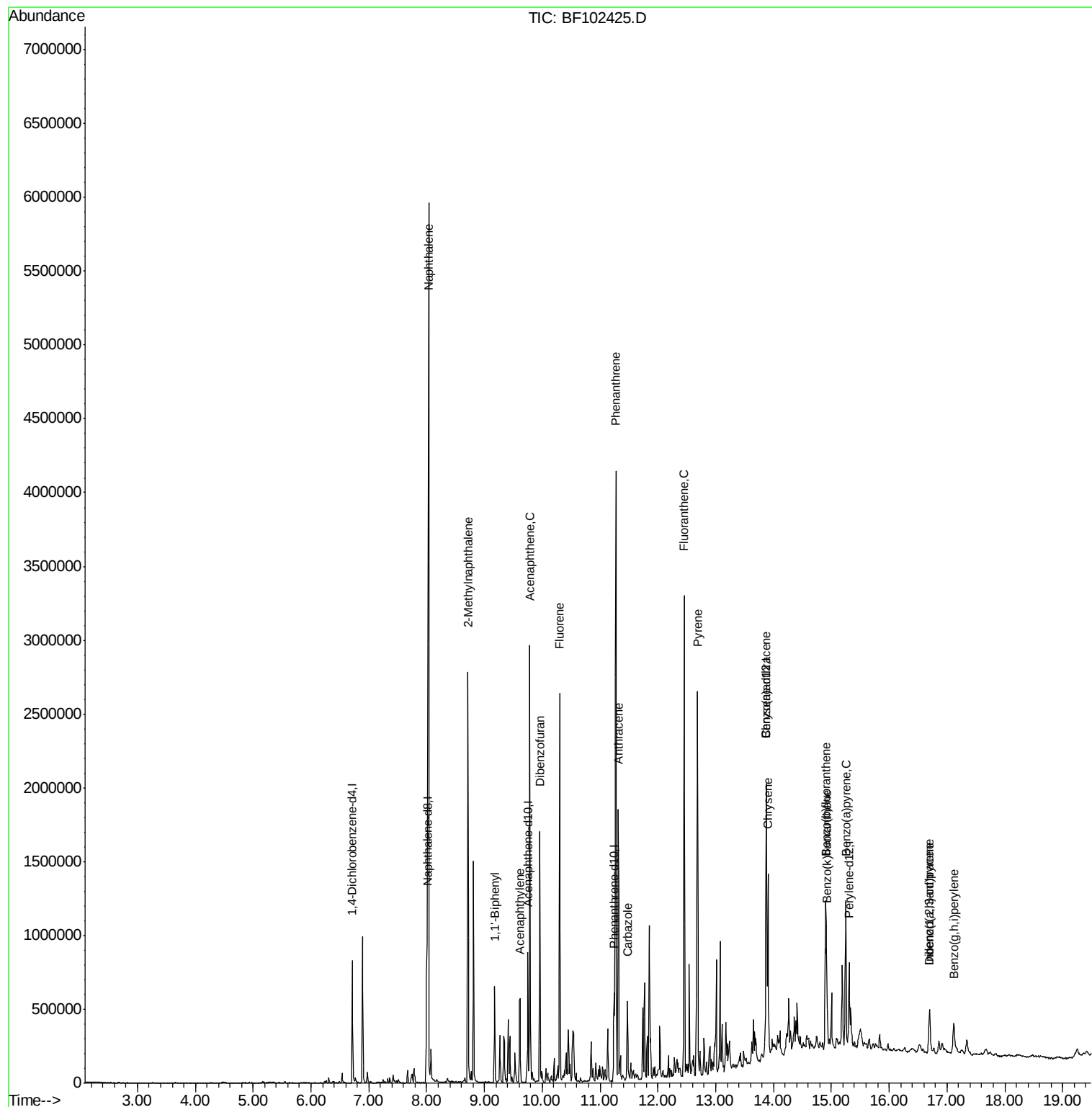
Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
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Misc :
ALS Vial : 12 Sample Multiplier: 1

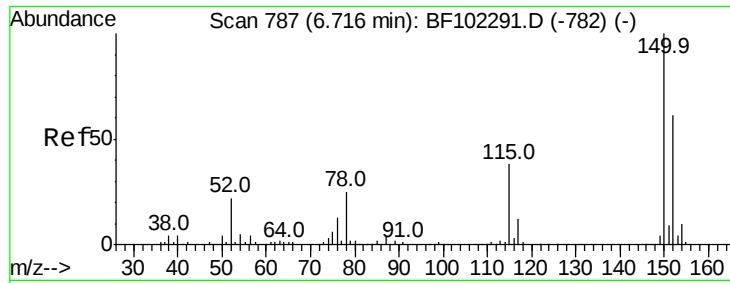
Instrument :
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#1

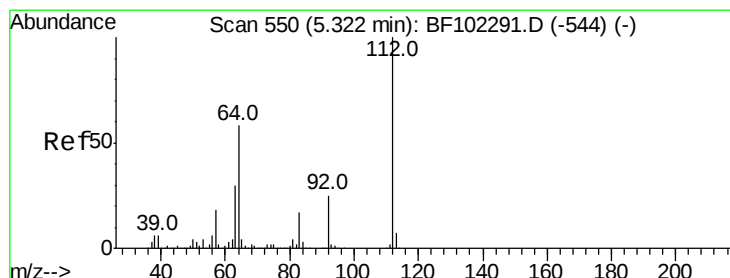
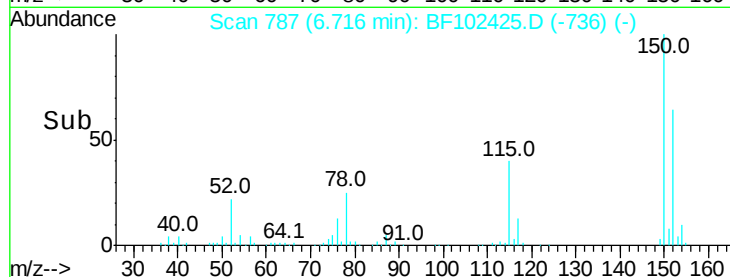
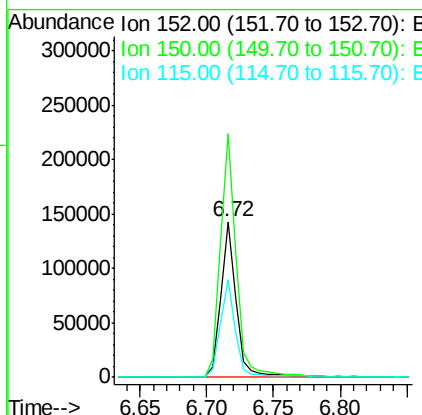
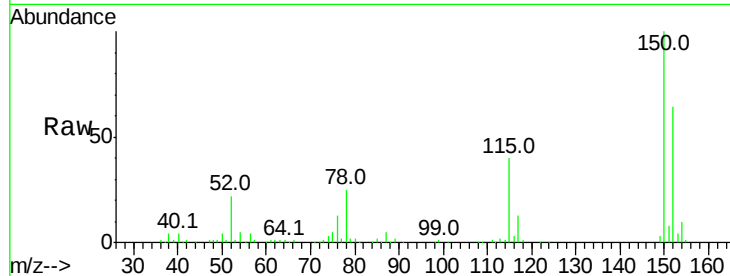
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. 0.00 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-N-8

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	124.6	186.8
115	62.9	50.1	75.1

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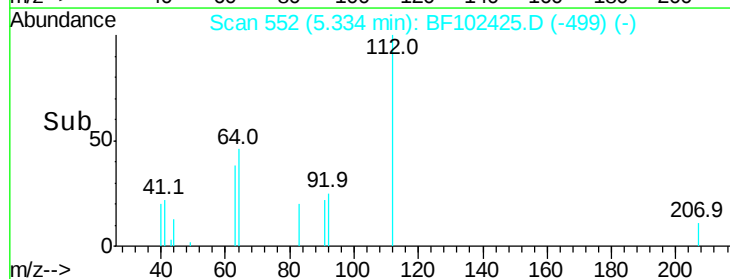
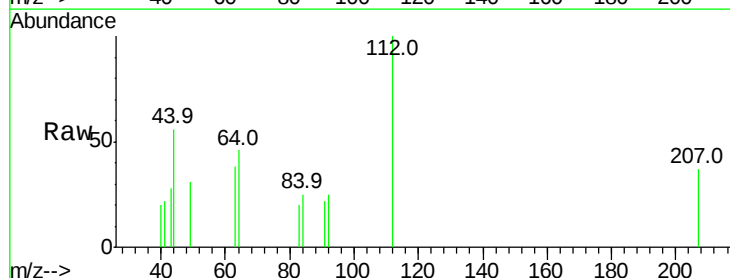
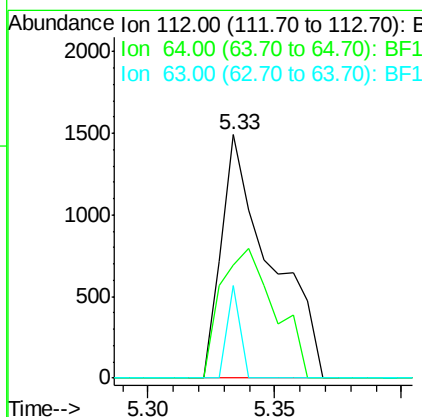
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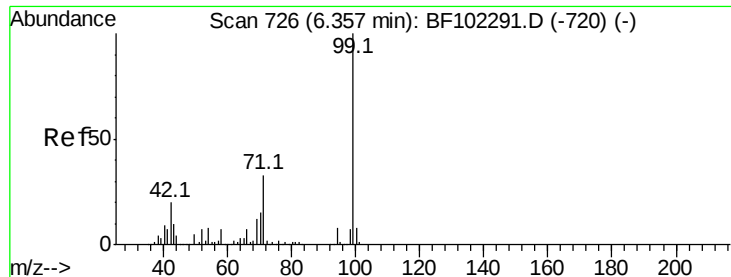


#5

2-Fluorophenol
Concen: 0.258 ng
RT: 5.33 min Scan# 552
Delta R.T. 0.01 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	46.4	47.9	71.9#
63	38.0	23.7	35.5#





#7

Phenol-d6

Concen: 0.348 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.00 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

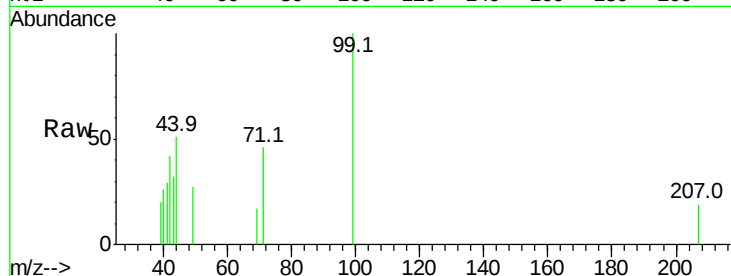
ClientSampled :

A2-SB70-E-N-8

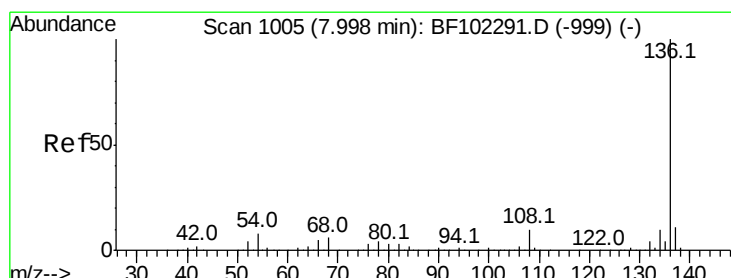
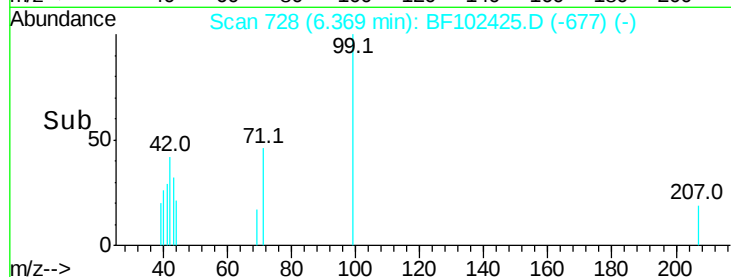
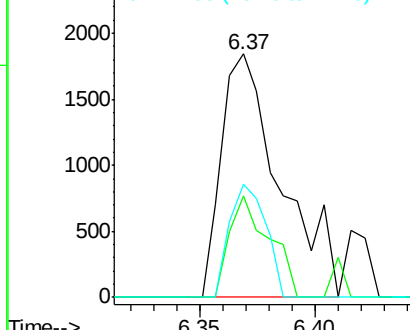
Tot Ion:	99	Resp:	3282
Ion Ratio	Lower	Upper	
99	100		
42	41.6	14.5	21.7#
71	46.3	25.4	38.0#

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1006

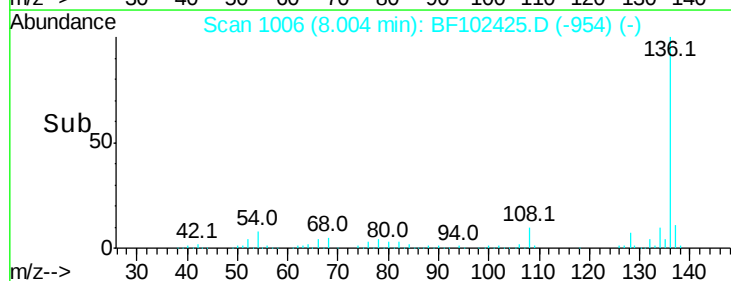
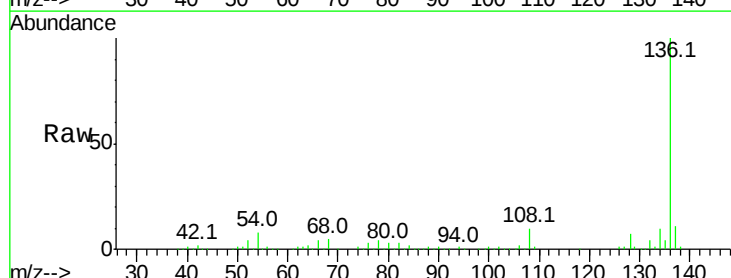
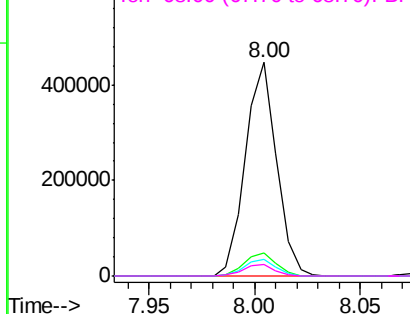
Delta R.T. 0.01 min

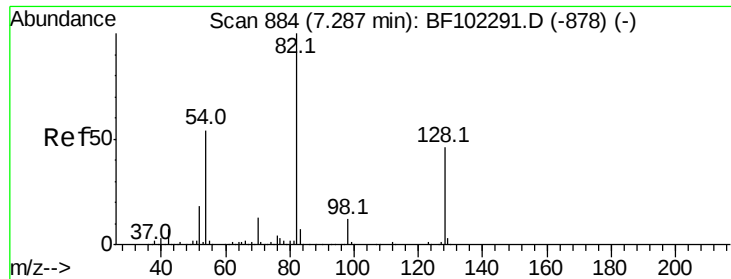
Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Tgt Ion:	136	Resp:	459476
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	7.9	6.6	9.8
68	5.4	5.0	7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 0.235 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

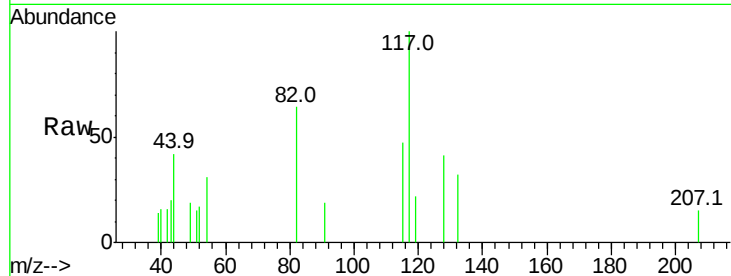
ClientSampleId :

A2-SB70-E-N-8

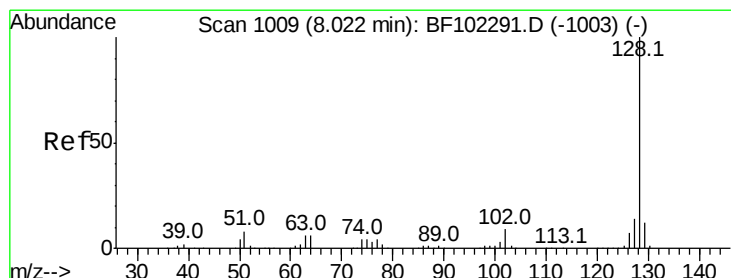
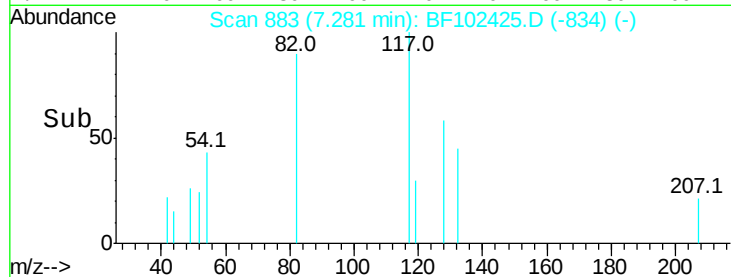
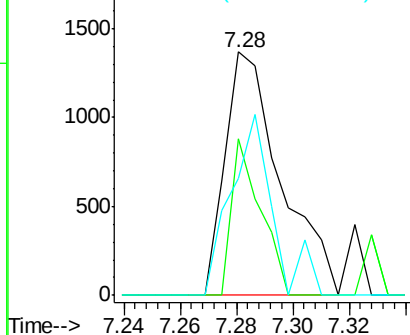
Tot Ion:	82	Resp:	1879
Ion Ratio	Lower	Upper	
82	100		
128	64.2	36.1	54.1#
54	48.2	41.4	62.2

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Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 152.802 ng

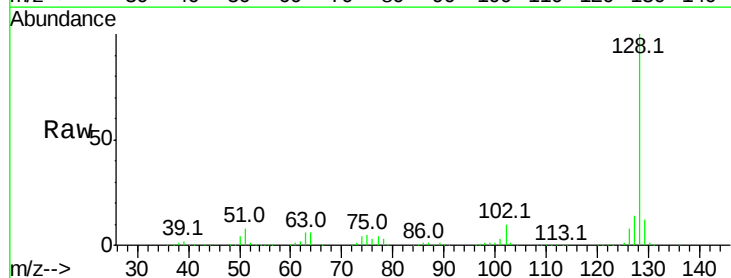
RT: 8.03 min Scan# 1011

Delta R.T. 0.01 min

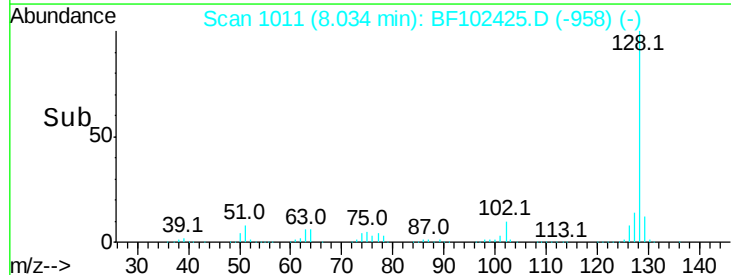
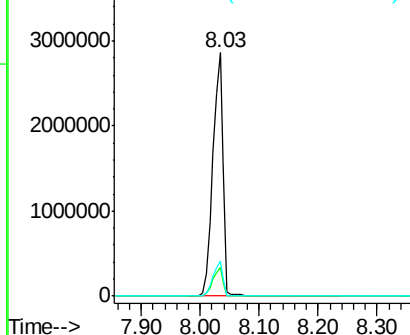
Lab File: BF102425.D

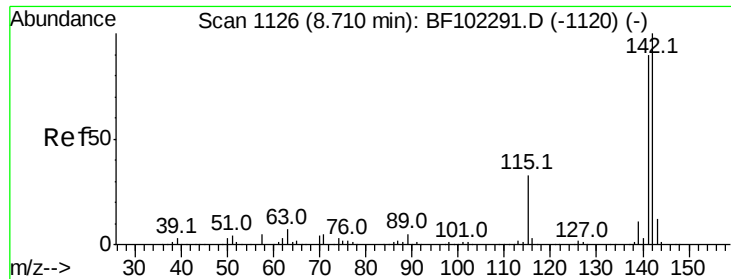
Acq: 25 Jan 2018 14:46

Tgt Ion:	128	Resp:	3505410
Ion Ratio	Lower	Upper	
128	100		
129	11.6	8.8	13.2
127	14.2	10.9	16.3



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





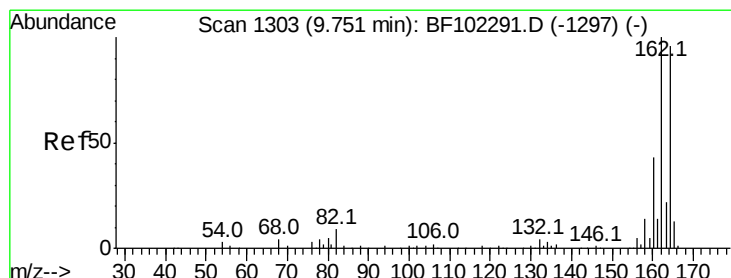
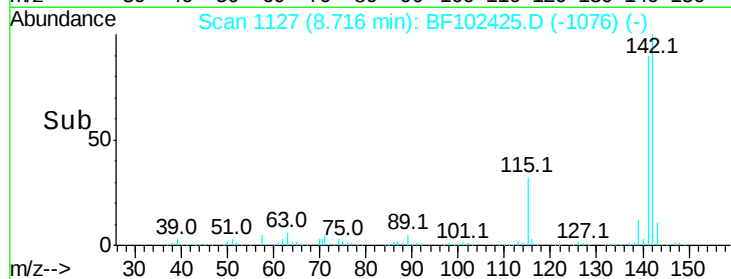
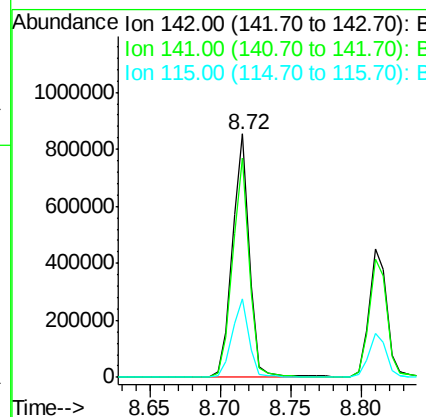
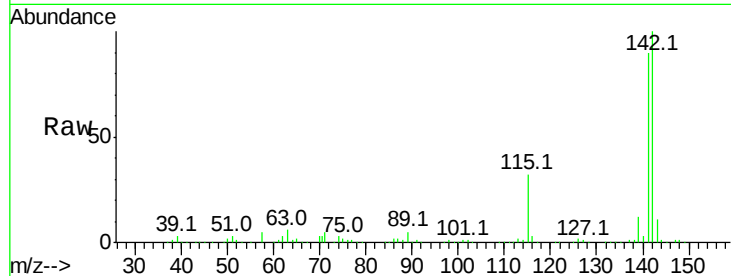
#37
2-Methylnaphthalene
Concen: 46.651 ng
RT: 8.72 min Scan# 1127
Delta R.T. 0.00 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-N-8

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.8	106.2
115	32.3	26.1	39.1

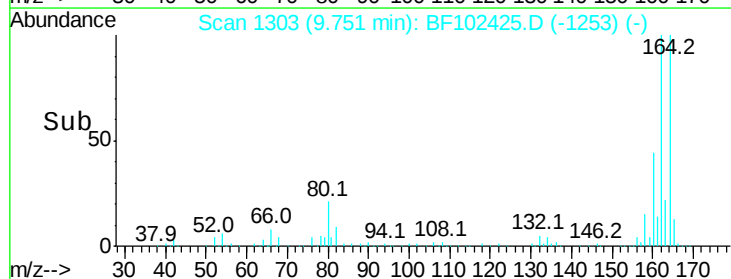
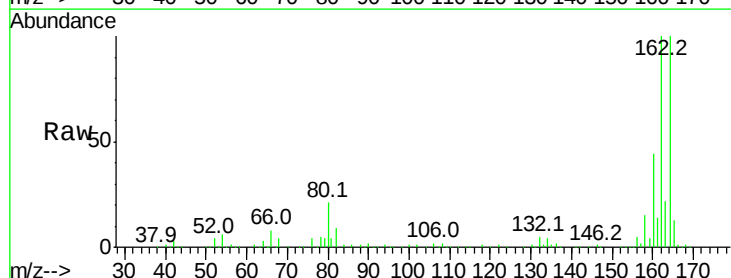
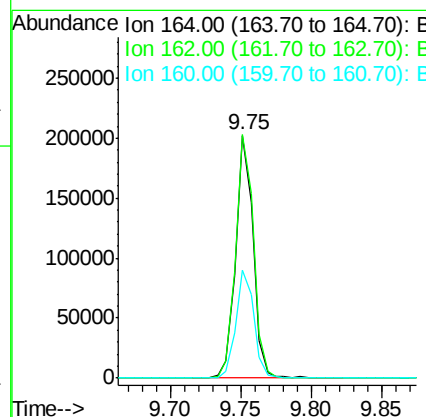
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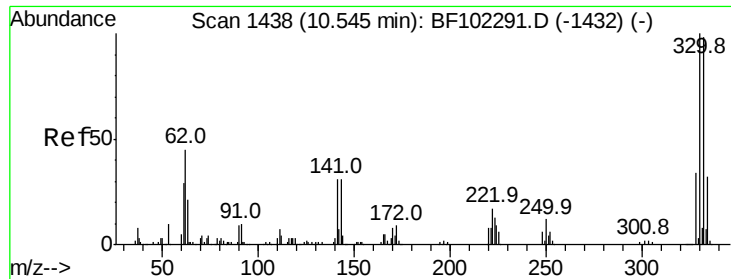
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.4	86.1	129.1
160	44.6	38.3	57.5





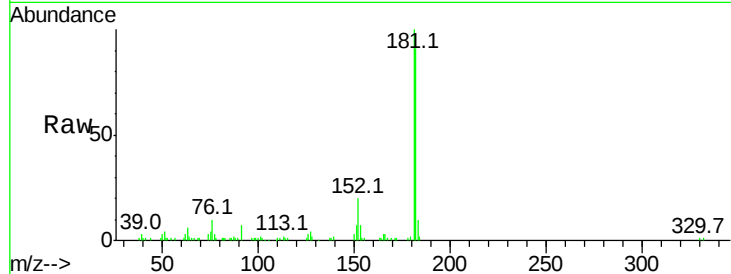
#41
 2,4,6-Tribromophenol
 Concen: 0.214 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: BF102425.D
 Acq: 25 Jan 2018 14:46

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB70-E-N-8

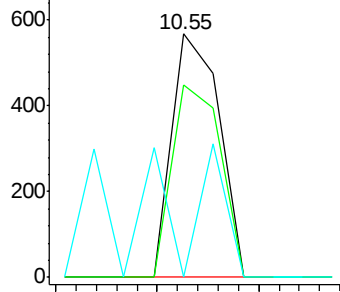
Tot Ion	Ratio	Lower	Upper
330	100		
332	81.0	77.0	115.6
141	59.0	29.9	44.9#

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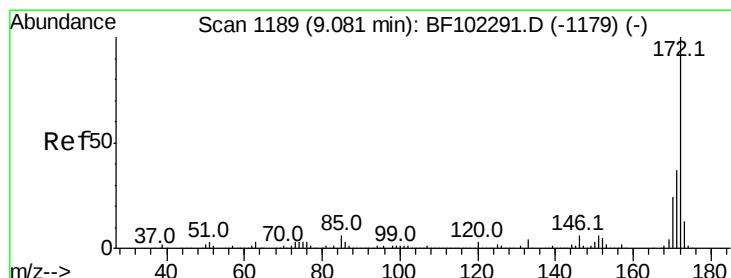
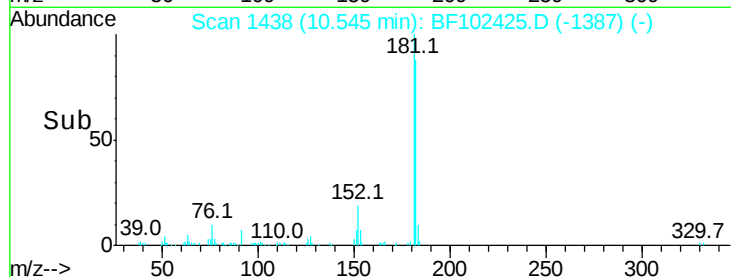
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Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E



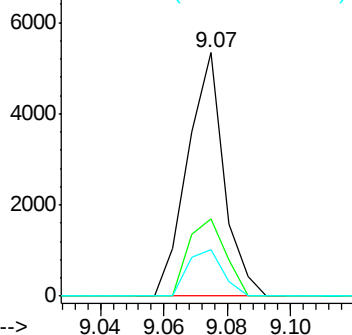
Time-->



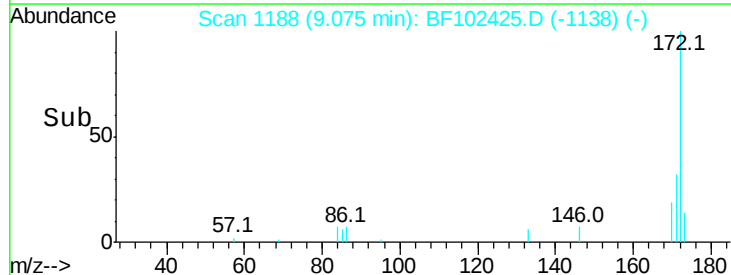
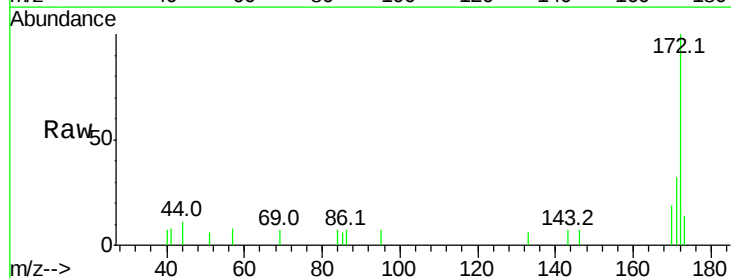
#44
 2-Fluorobiphenyl
 Concen: 0.359 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF102425.D
 Acq: 25 Jan 2018 14:46

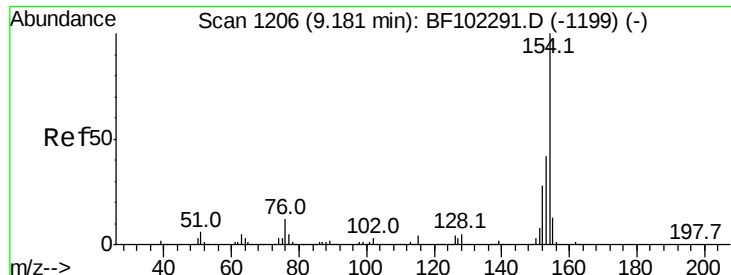
Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.0	29.7	44.5
170	19.2	19.6	29.4#

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



Time-->





#45

1,1'-Biphenyl

Concen: 12.147 ng

RT: 9.17 min Scan# 1205

Delta R.T. -0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

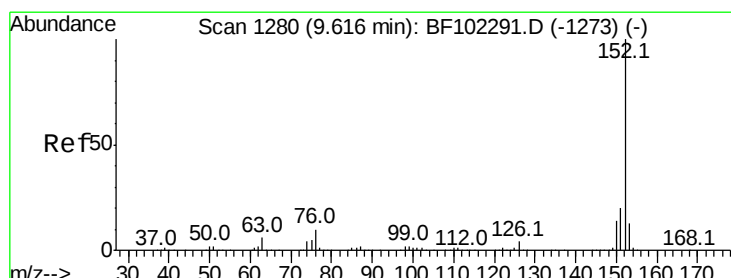
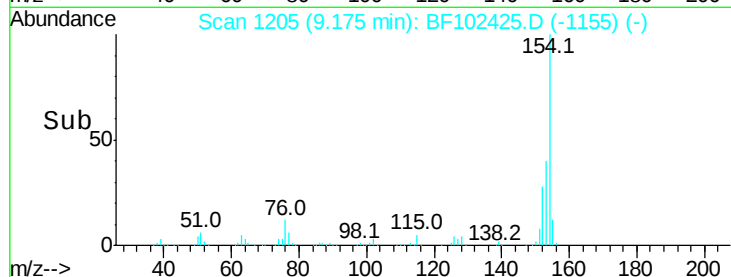
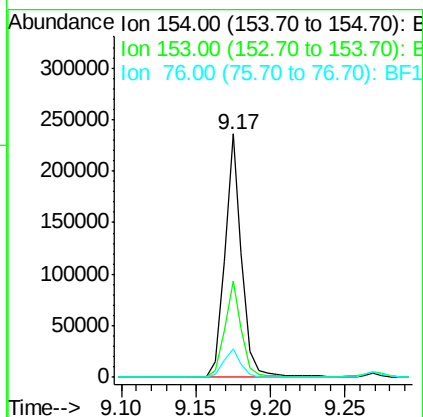
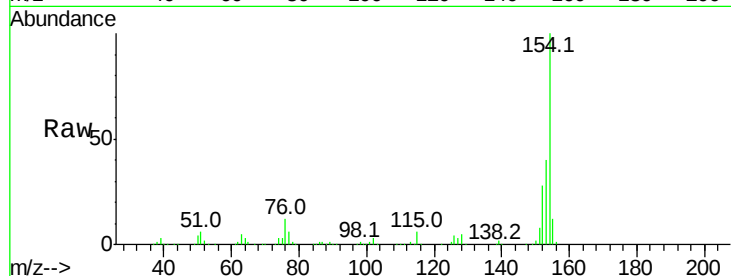
ClientSampleId :

A2-SB70-E-N-8

Tot Ion:	154	Resp:	188491
Ion Ratio	Lower	Upper	
154	100		
153	39.8	21.3	61.3
76	11.7	0.0	34.0

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#48

Acenaphthylene

Concen: 12.509 ng

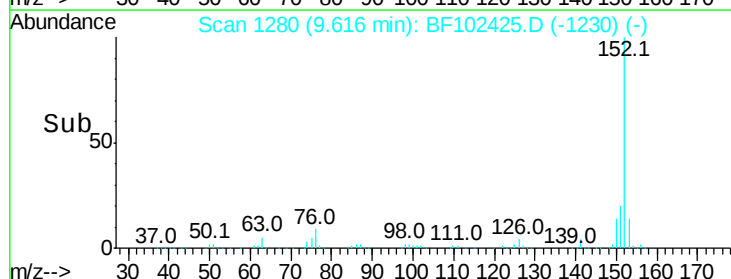
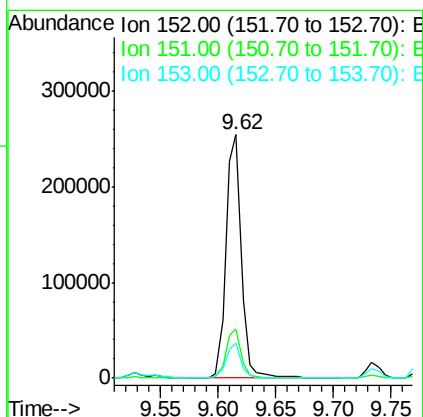
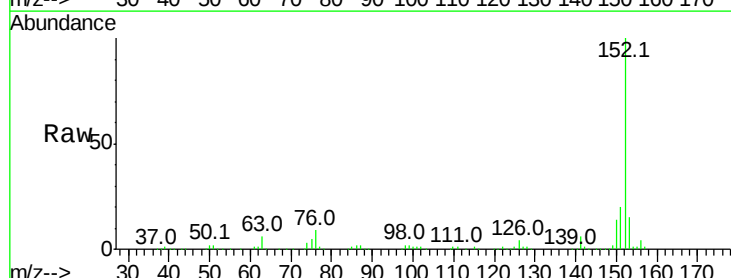
RT: 9.62 min Scan# 1280

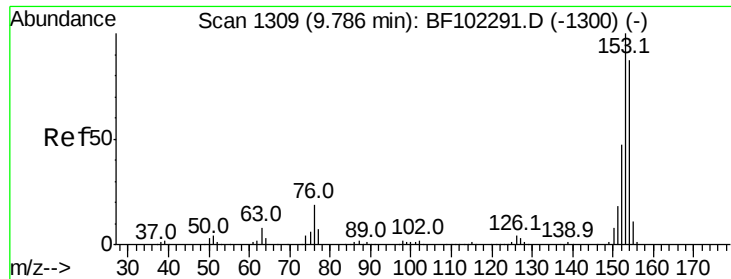
Delta R.T. -0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Tgt Ion:	152	Resp:	235056
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.3	24.5
153	14.6	10.7	16.1





#51

Acenaphthene

Concen: 61.583 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

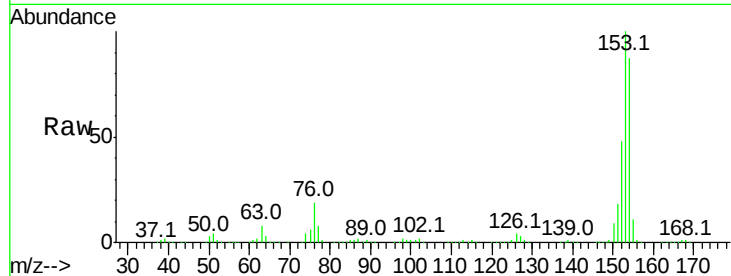
ClientSampleId :

A2-SB70-E-N-8

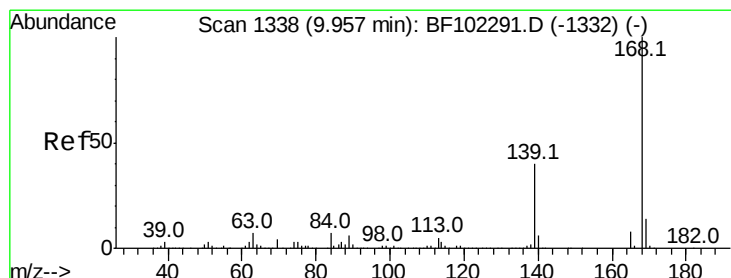
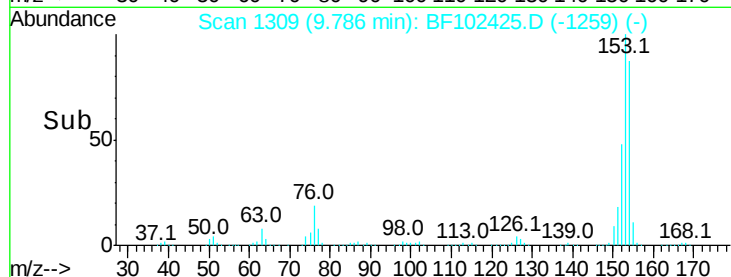
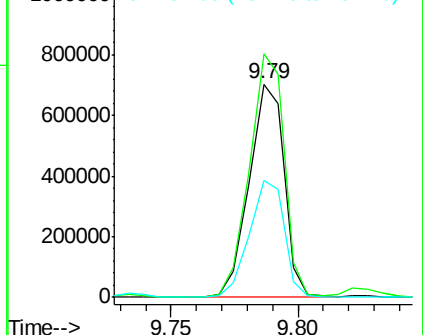
Tot Ion:	154	Resp:	675839
Ion Ratio	Lower	Upper	
154	100		
153	114.3	91.2	136.8
152	54.6	43.8	65.8

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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: 45.844 ng

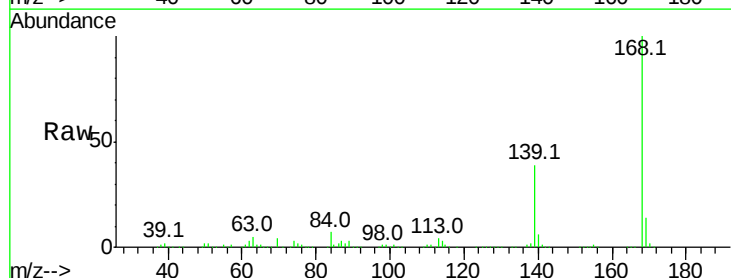
RT: 9.96 min Scan# 1338

Delta R.T. -0.01 min

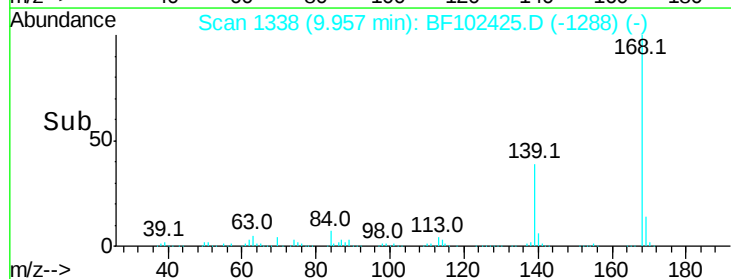
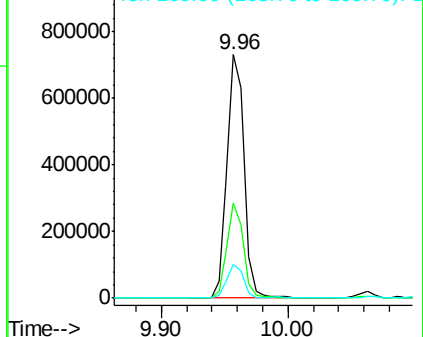
Lab File: BF102425.D

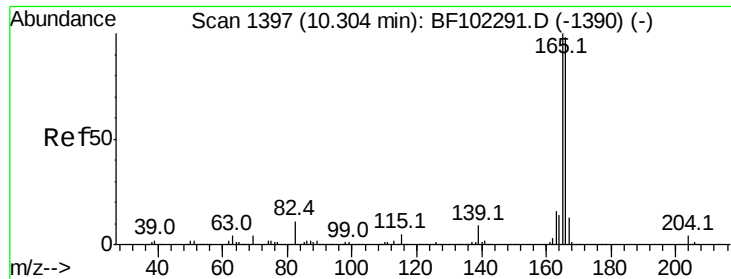
Acq: 25 Jan 2018 14:46

Tgt Ion:	168	Resp:	680904
Ion Ratio	Lower	Upper	
168	100		
139	39.3	30.1	45.1
169	14.1	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





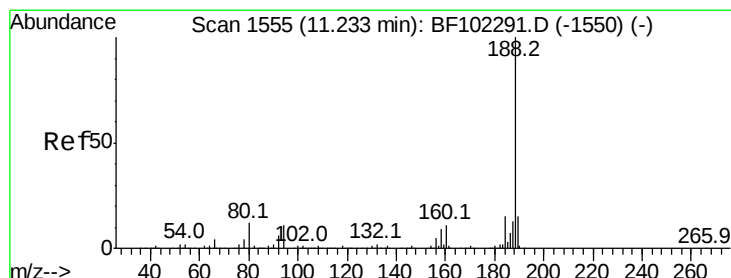
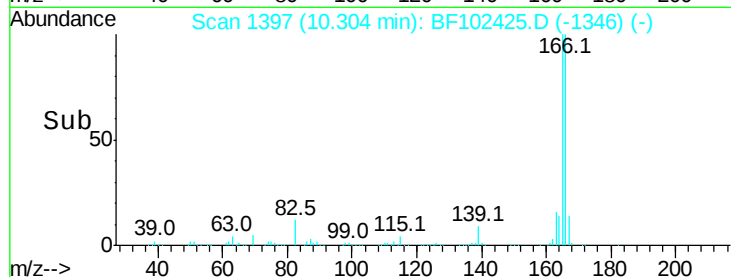
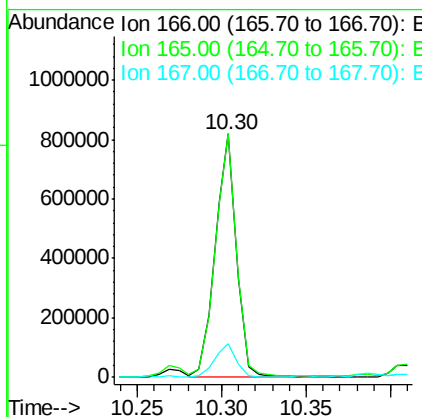
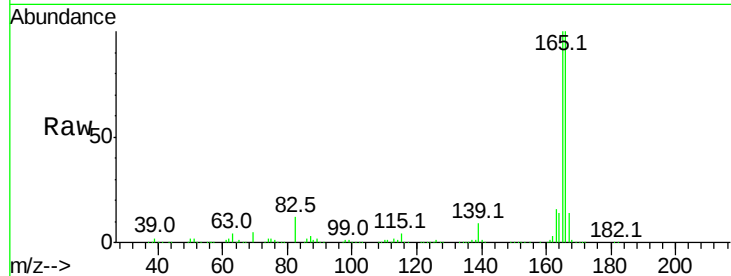
#57
Fluorene
 Concen: 61.189 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. 0.00 min
 Lab File: BF102425.D
 Acq: 25 Jan 2018 14:46

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB70-E-N-8

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.8	119.8
167	13.7	10.6	16.0

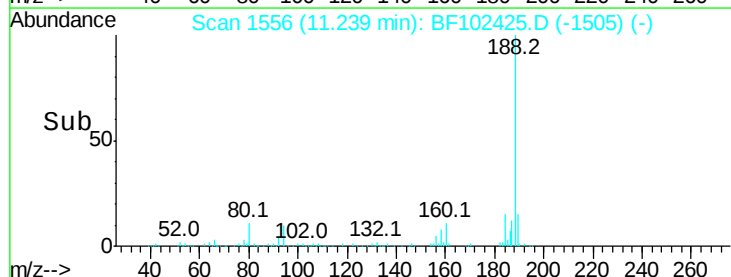
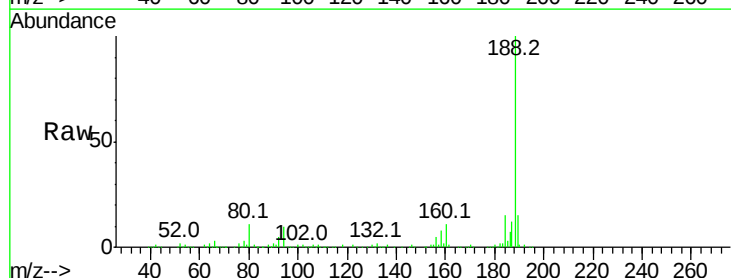
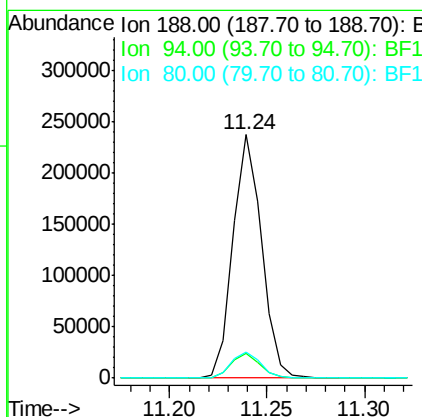
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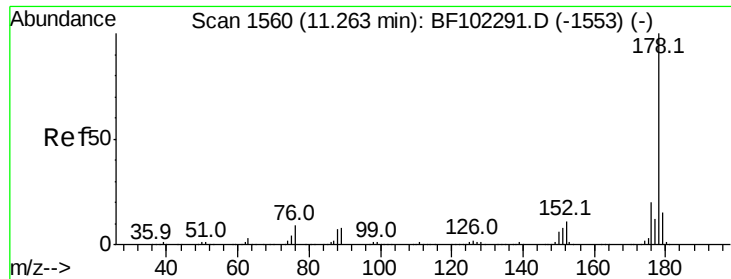
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: BF102425.D
 Acq: 25 Jan 2018 14:46

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.5	12.7
80	10.9	9.2	13.8





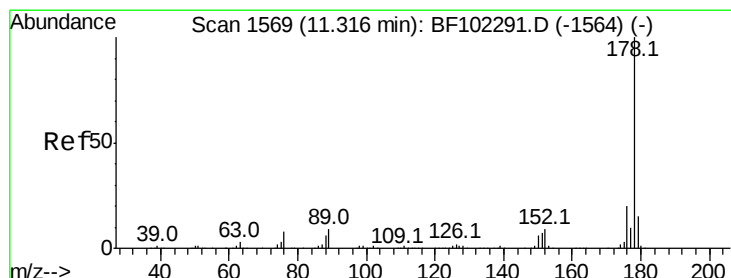
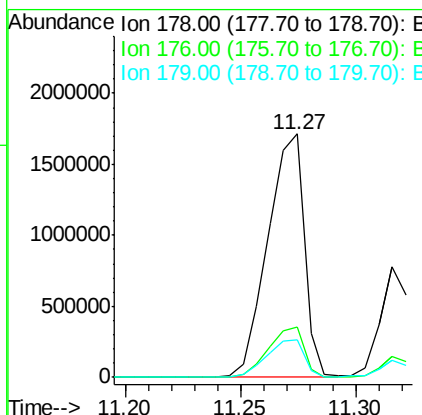
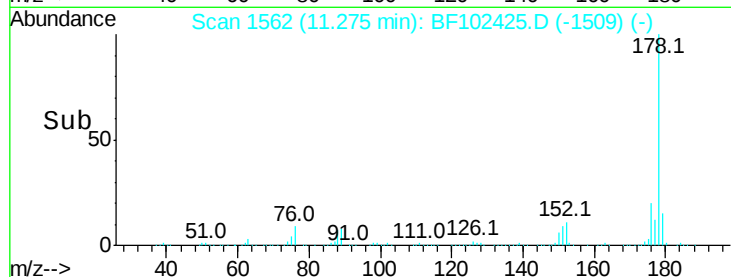
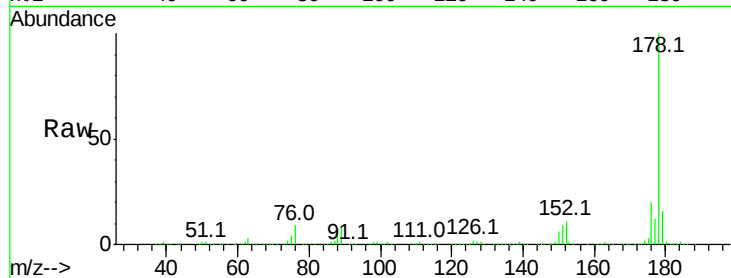
#70
Phenanthrene
Concen: 133.782 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.01 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-N-8

Tot Ion:178 Resp: 1887603
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.8
179 15.5 13.0 19.6

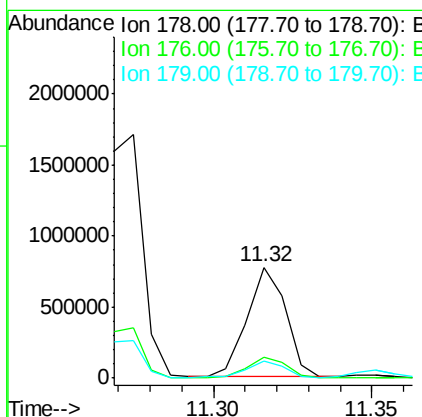
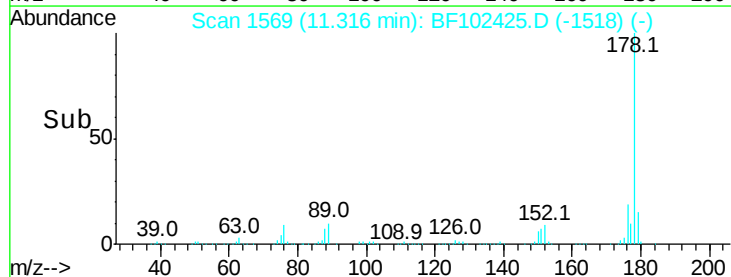
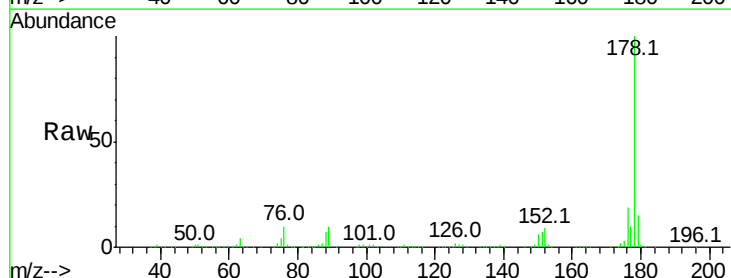
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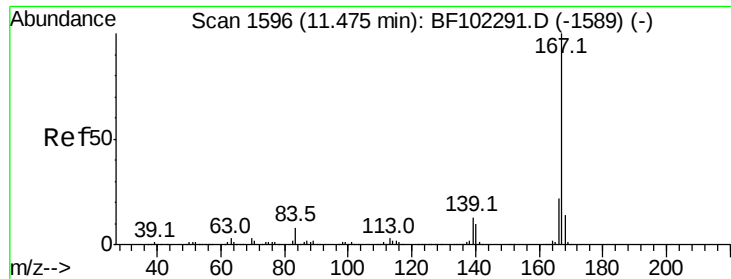
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#71
Anthracene
Concen: 45.418 ng
RT: 11.32 min Scan# 1569
Delta R.T. 0.00 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Tgt Ion:178 Resp: 654080
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.5 12.6 19.0





#72

Carbazole

Concen: 15.141 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

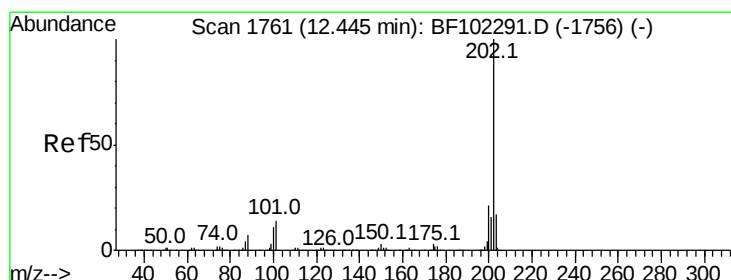
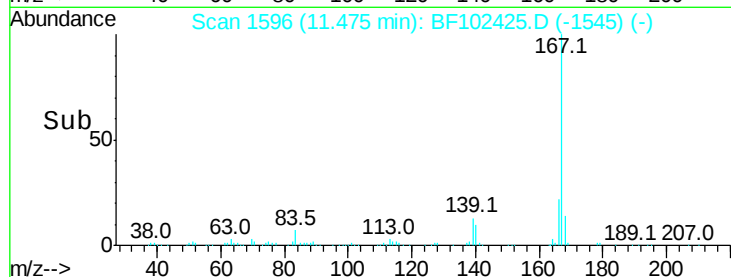
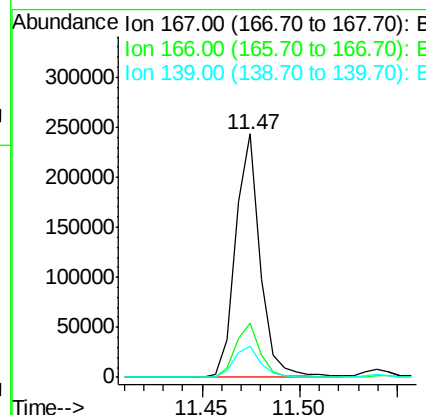
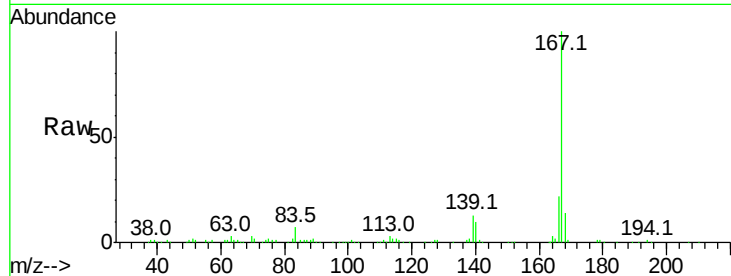
ClientSampleId :

A2-SB70-E-N-8

Tot Ion:	167	Resp:	212725
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.6	26.4
139	12.5	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 93.105 ng

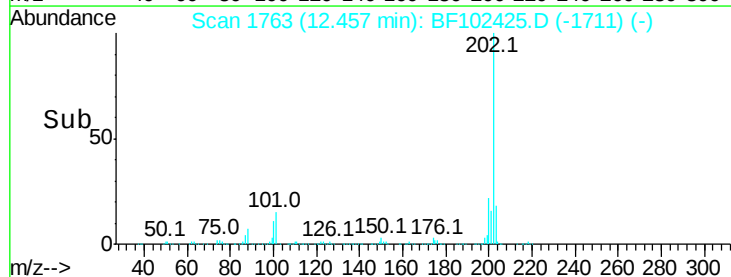
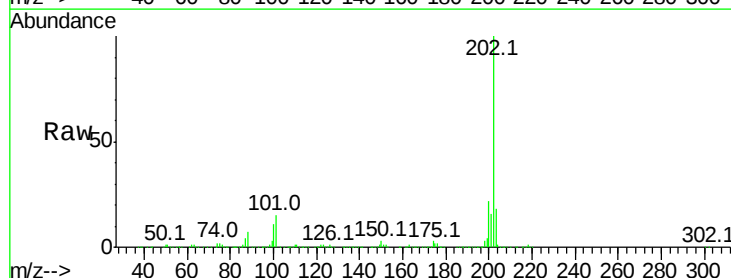
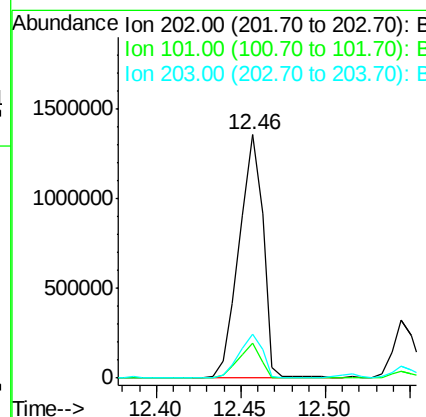
RT: 12.46 min Scan# 1763

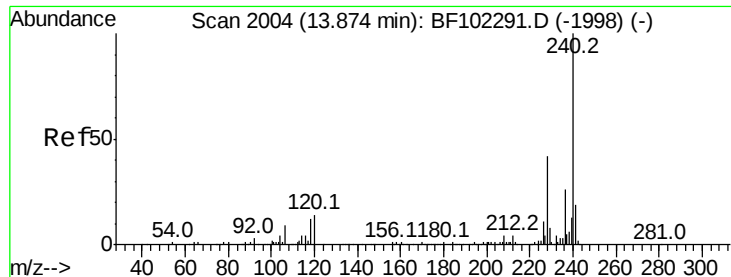
Delta R.T. 0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Tgt Ion:	202	Resp:	1339620
Ion Ratio	Lower	Upper	
202	100		
101	14.5	0.0	34.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.00 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

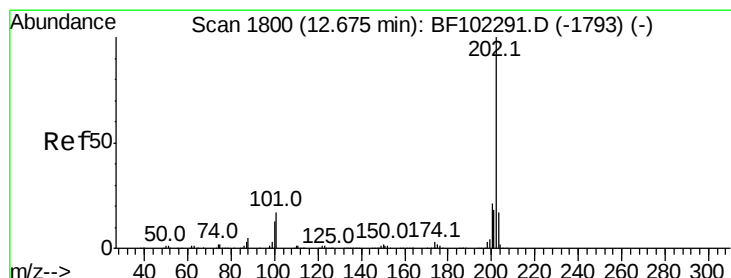
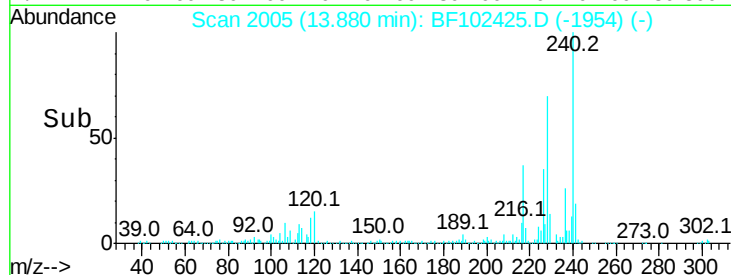
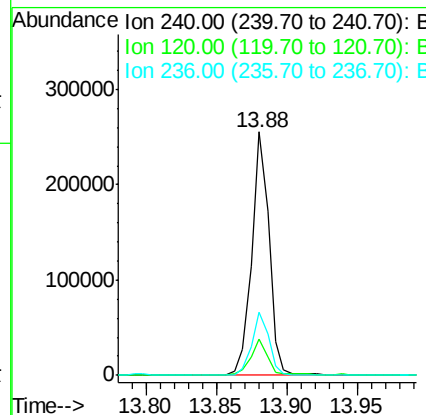
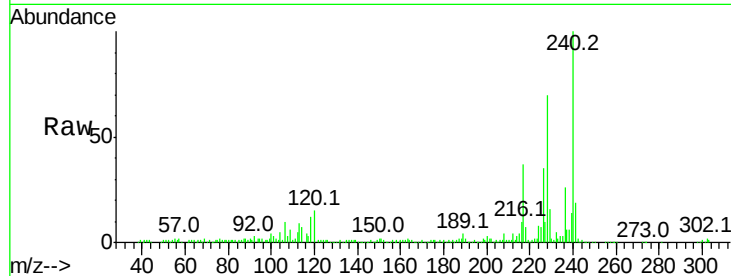
ClientSampleId :

A2-SB70-E-N-8

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.8	9.5	14.3#
236	26.0	20.7	31.1

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#77

Pyrene

Concen: 61.967 ng

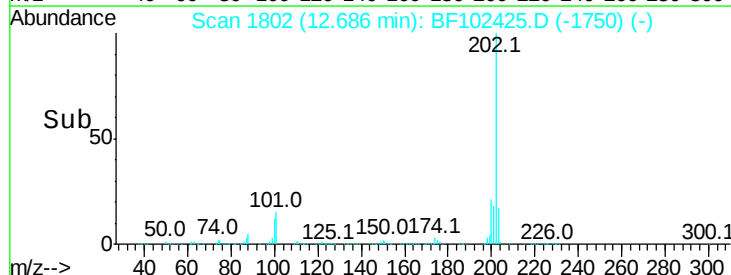
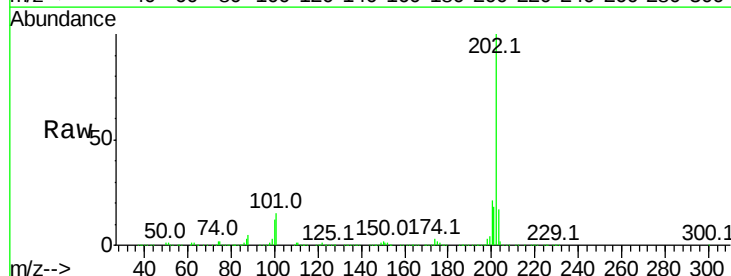
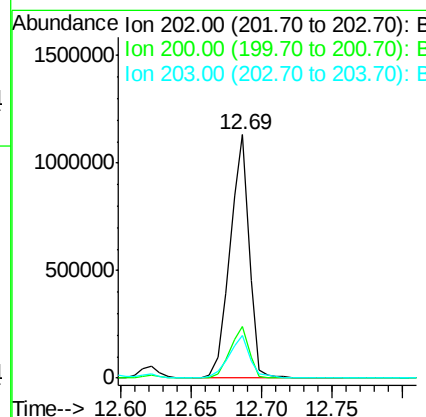
RT: 12.69 min Scan# 1802

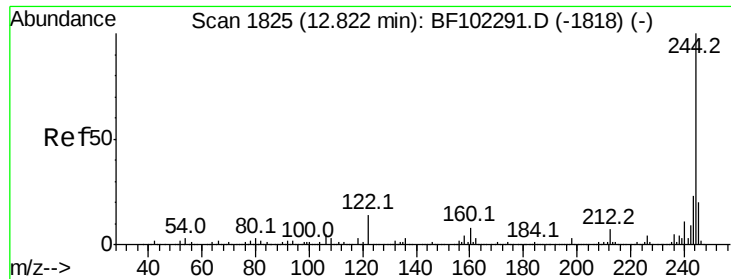
Delta R.T. 0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.2
203	17.4	14.3	21.5





#78

Terphenyl-d14

Concen: 0.426 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

ClientSampleId :

A2-SB70-E-N-8

Tot Ion:244 Resp: 4180

Ion Ratio Lower Upper

244 100

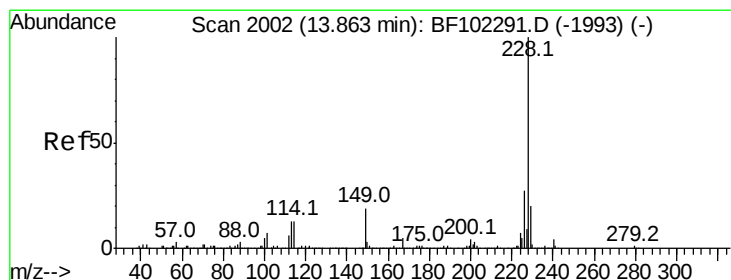
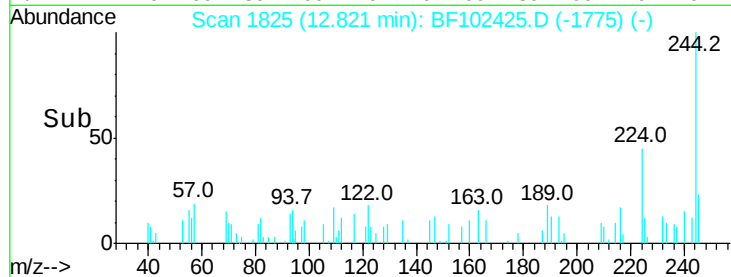
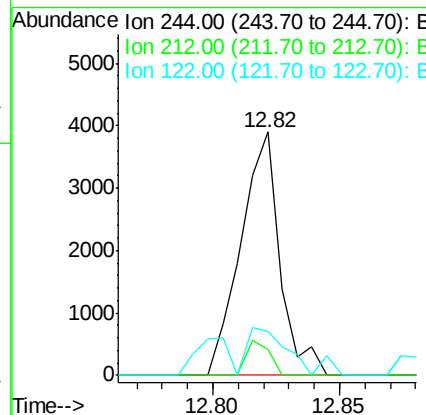
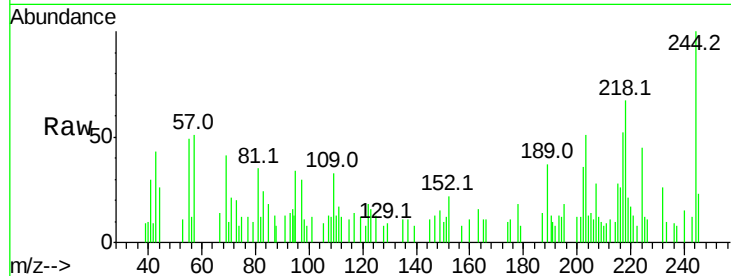
212 10.7 5.4 8.0#

122 17.9 11.0 16.4#

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#80

Benzo(a)anthracene

Concen: 45.933 ng m

RT: 13.87 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

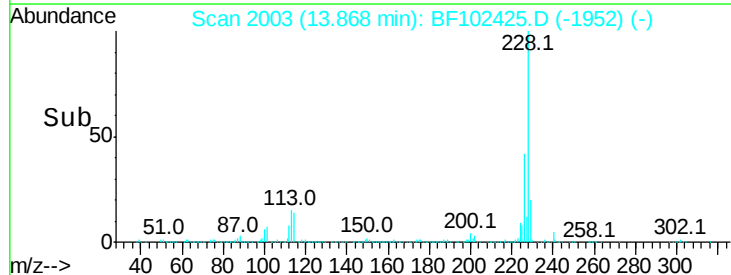
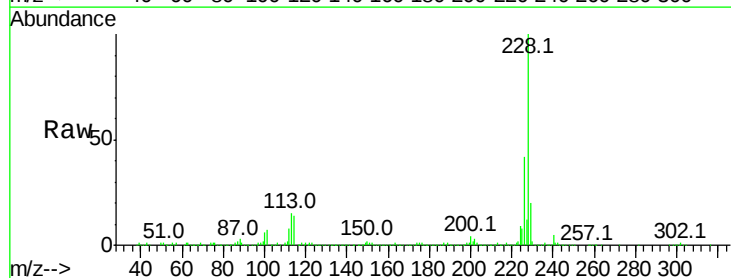
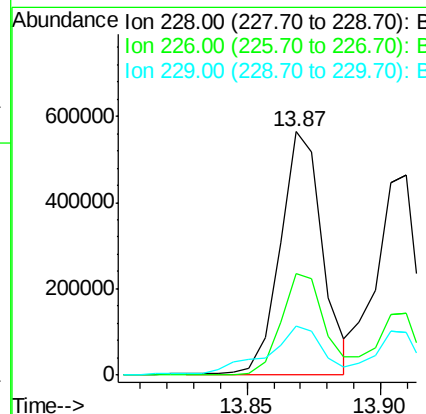
Tgt Ion:228 Resp: 624912

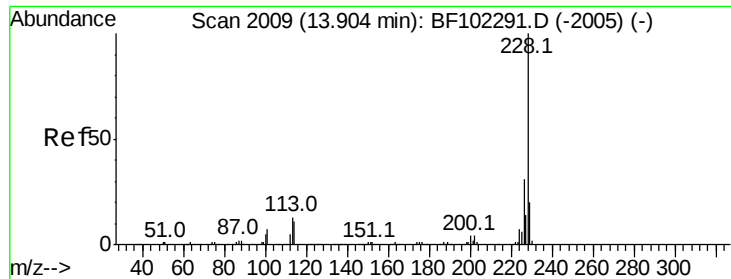
Ion Ratio Lower Upper

228 100

226 41.8 22.6 33.8#

229 20.4 15.8 23.6





#82

Chrysene

Concen: 34.659 ng

RT: 13.91 min Scan# 2010

Delta R.T. 0.00 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

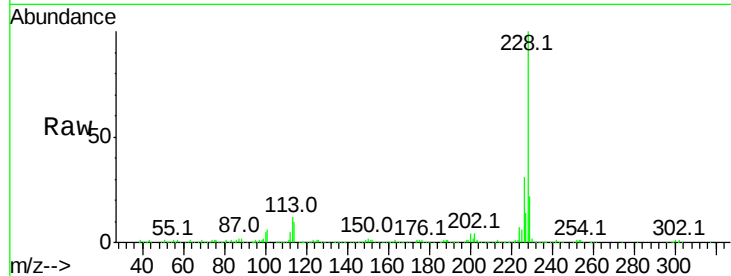
ClientSampleId :

A2-SB70-E-N-8

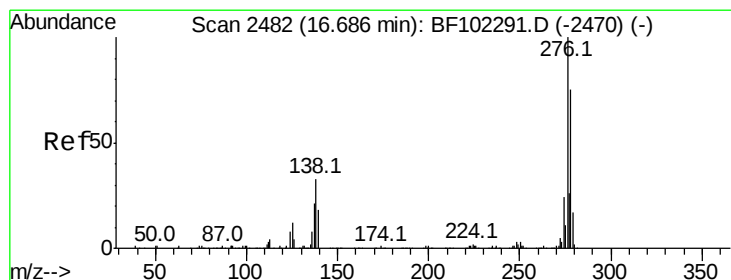
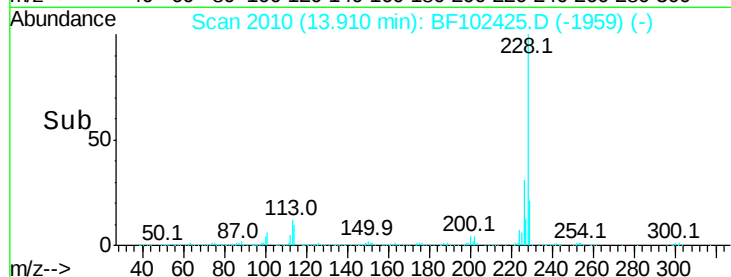
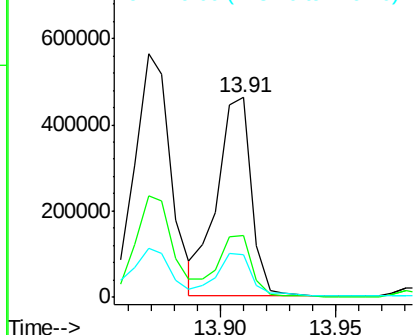
Tot Ion:	228	Resp:	478833
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.6
229	21.6	16.2	24.4

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 15.888 ng

RT: 16.70 min Scan# 2484

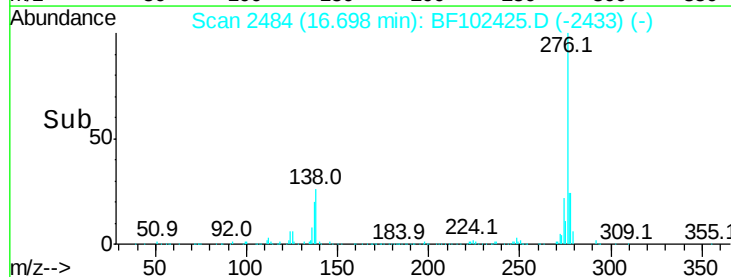
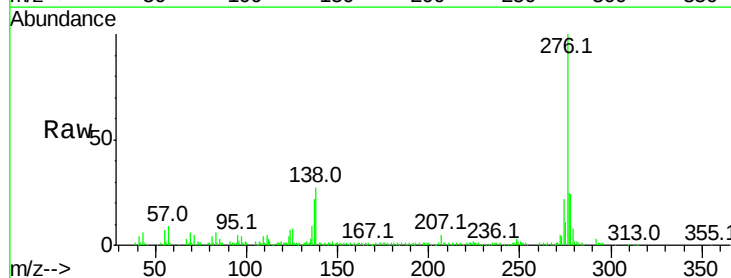
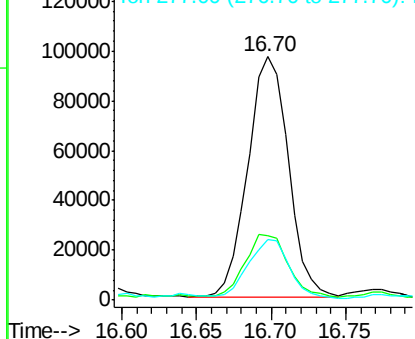
Delta R.T. 0.00 min

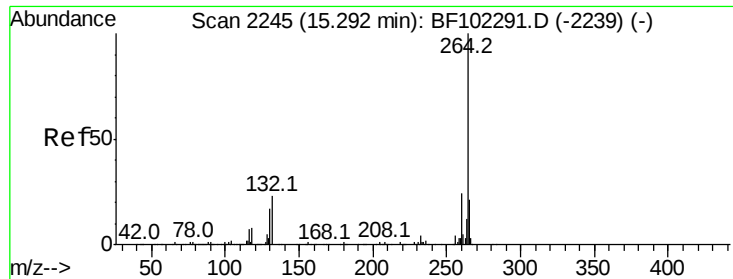
Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Tgt Ion:	276	Resp:	181281
Ion Ratio	Lower	Upper	
276	100		
138	26.7	25.0	37.6
277	24.8	20.1	30.1

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





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.31 min Scan# 2248

Delta R.T. 0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Instrument :

BNA_F

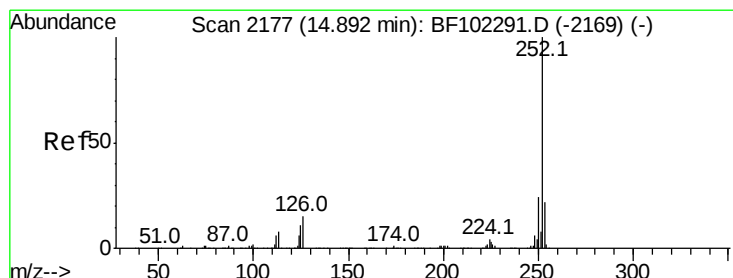
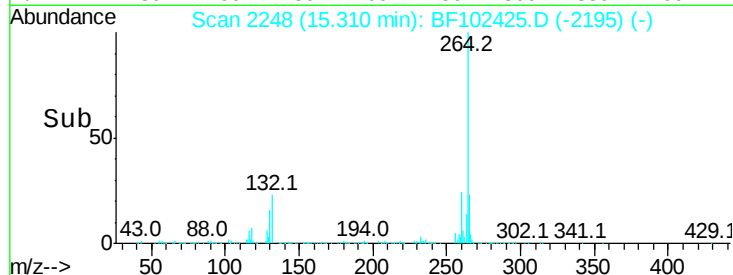
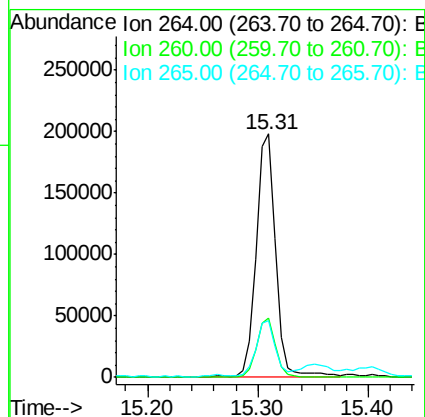
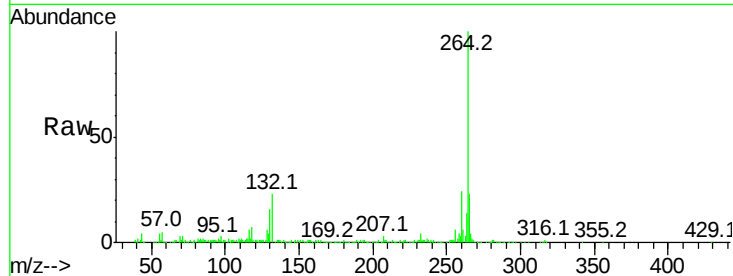
ClientSampleId :

A2-SB70-E-N-8

Tot Ion:	264	Resp:	244063
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.2	28.8
265	23.3	17.5	26.3

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#87

Benzo(b)fluoranthene

Concen: 35.727 ng m

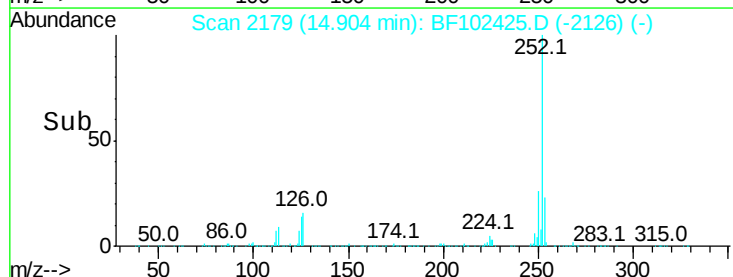
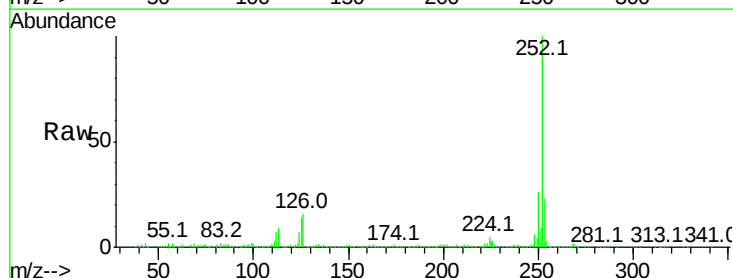
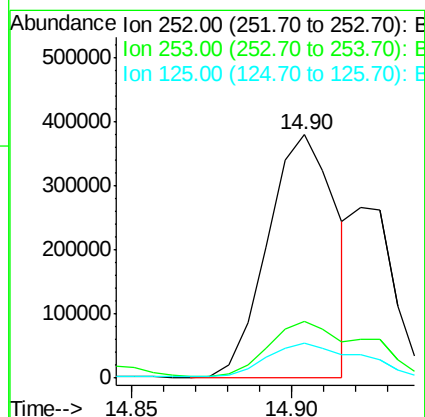
RT: 14.90 min Scan# 2179

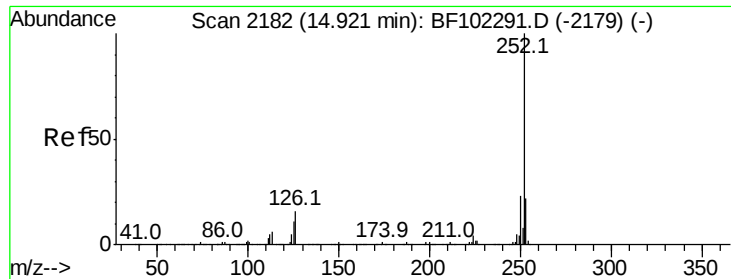
Delta R.T. 0.01 min

Lab File: BF102425.D

Acq: 25 Jan 2018 14:46

Tgt Ion:	252	Resp:	565160
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.0	25.6
125	14.4	9.0	13.6





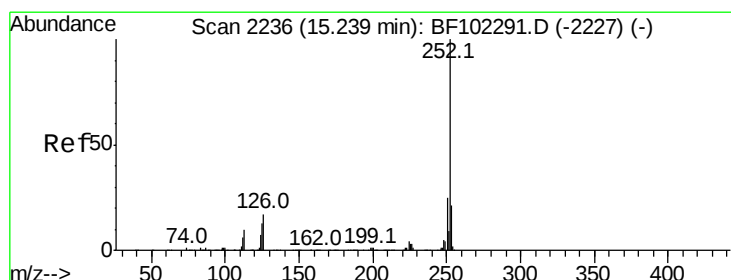
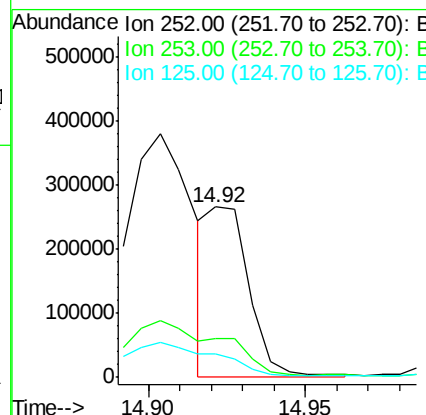
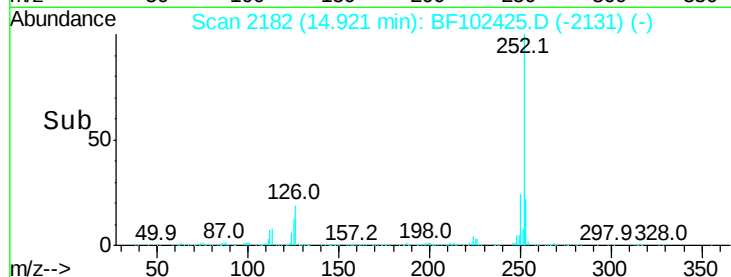
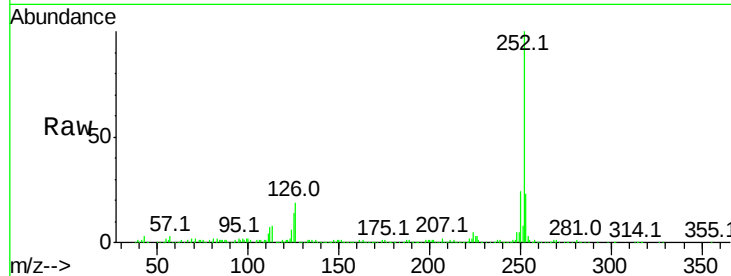
#88
Benzo(k)fluoranthene
Concen: 16.227 ng m
RT: 14.92 min Scan# 2182
Delta R.T. 0.00 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-N-8

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	13.5	10.2	15.2

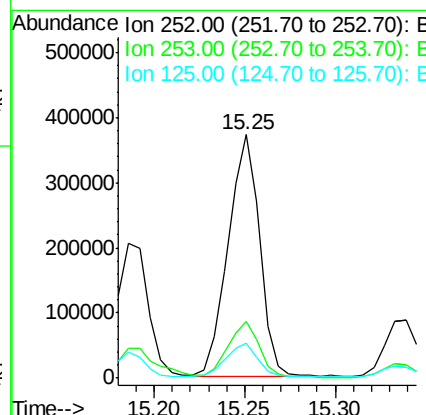
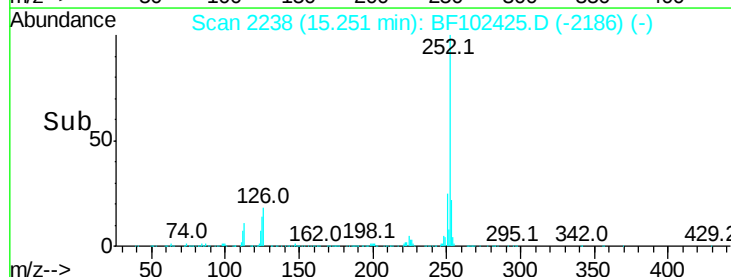
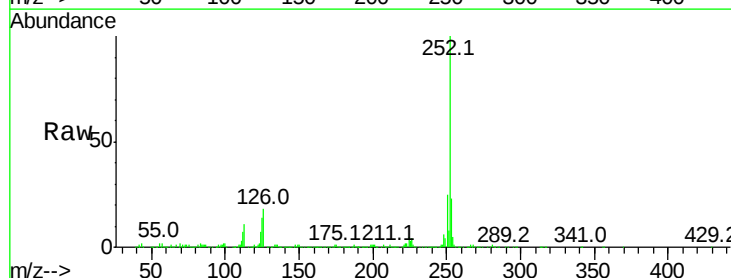
Manual Integrations
APPROVED

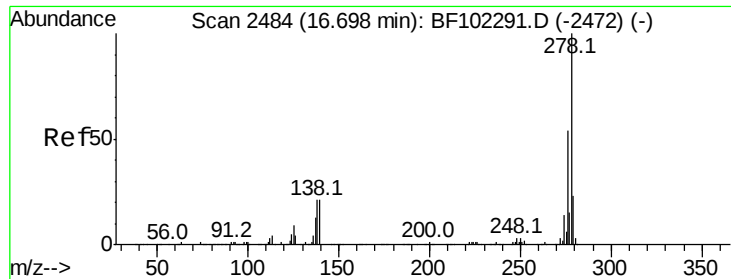
Sohil
1/25/2018 5:42:21 PM



#89
Benzo(a)pyrene
Concen: 31.724 ng
RT: 15.25 min Scan# 2238
Delta R.T. 0.01 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	14.4	9.8	14.6





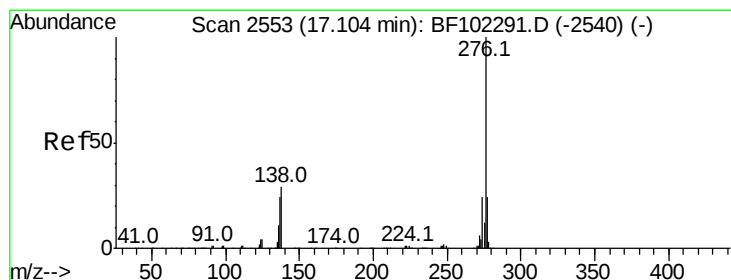
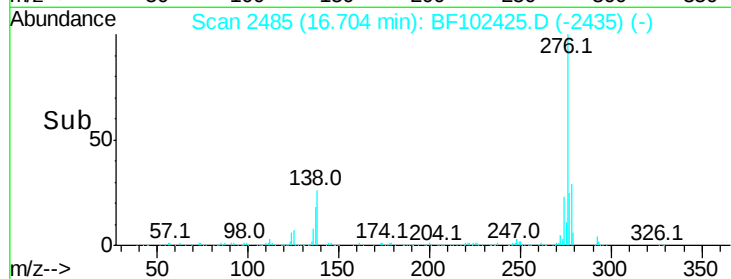
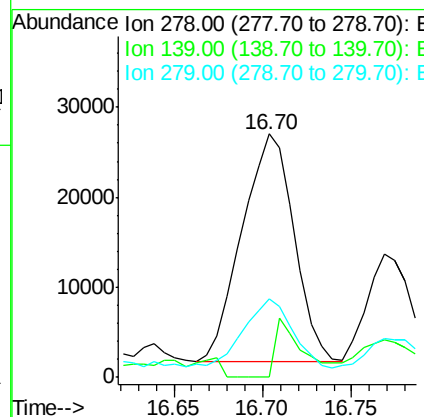
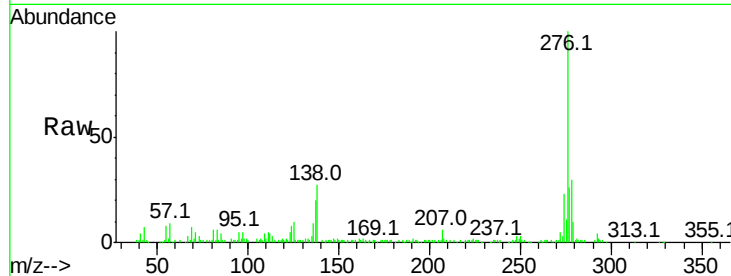
#90
Dibenzo(a,h)anthracene
Concen: 4.484 ng m
RT: 16.70 min Scan# 2485
Delta R.T. -0.01 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-N-8

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	32.0	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/25/2018 5:42:21 PM



#91
Benzo(g,h,i)perylene
Concen: 12.467 ng
RT: 17.12 min Scan# 2556
Delta R.T. 0.01 min
Lab File: BF102425.D
Acq: 25 Jan 2018 14:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	17.9	26.9
138	30.6	21.8	32.8

