

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
 Data File : BF101003.D
 Acq On : 30 Nov 2017 3:55
 Operator : SJ/JU
 Sample : I6579-09DL 20X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAR-2-E(0-1)DL

Manual Integrations
 APPROVED

Sohil
 11/30/2017 4:32:33 PM

Quant Time: Nov 30 07:58:14 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 15:21:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	52339	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	181713	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	68667	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	117728	20.00	ng	0.00
75) Chrysene-d12	14.03	240	115757	20.00	ng	0.00
86) Perylene-d12	15.50	264	97553	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	15768	4.83	ng	-0.01
7) Phenol-d6	6.48	99	18847	4.68	ng	-0.01
23) Nitrobenzene-d5	7.41	82	10765	3.92	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	3395	4.85	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	21552	4.78	ng	-0.01
78) Terphenyl-d14	12.96	244	19102	3.79	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	9.75	152	134473	18.833	ng	98
51) Acenaphthene	9.92	154	14840	3.417	ng	93
57) Fluorene	10.44	166	32277	7.239	ng	# 98
70) Phenanthrene	11.40	178	256172	41.328	ng	98
71) Anthracene	11.46	178	142984	22.736	ng	97
74) Fluoranthene	12.60	202	321515	48.942	ng	96
77) Pyrene	12.83	202	450237	54.564	ng	99
80) Benzo(a)anthracene	14.02	228	208104m	29.853	ng	
82) Chrysene	14.05	228	208094	30.827	ng	99
85) Indeno(1,2,3-cd)pyrene	16.97	276	58565	10.726	ng	# 89
87) Benzo(b)fluoranthene	15.07	252	177255m	30.670	ng	
88) Benzo(k)fluoranthene	15.09	252	45665m	8.362	ng	
89) Benzo(a)pyrene	15.43	252	111825	21.825	ng	99
90) Dibenzo(a,h)anthracene	16.98	278	17927	4.278	ng	96
91) Benzo(a,h,i)perylene	17.43	276	60213	14.680	ng	# 91

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

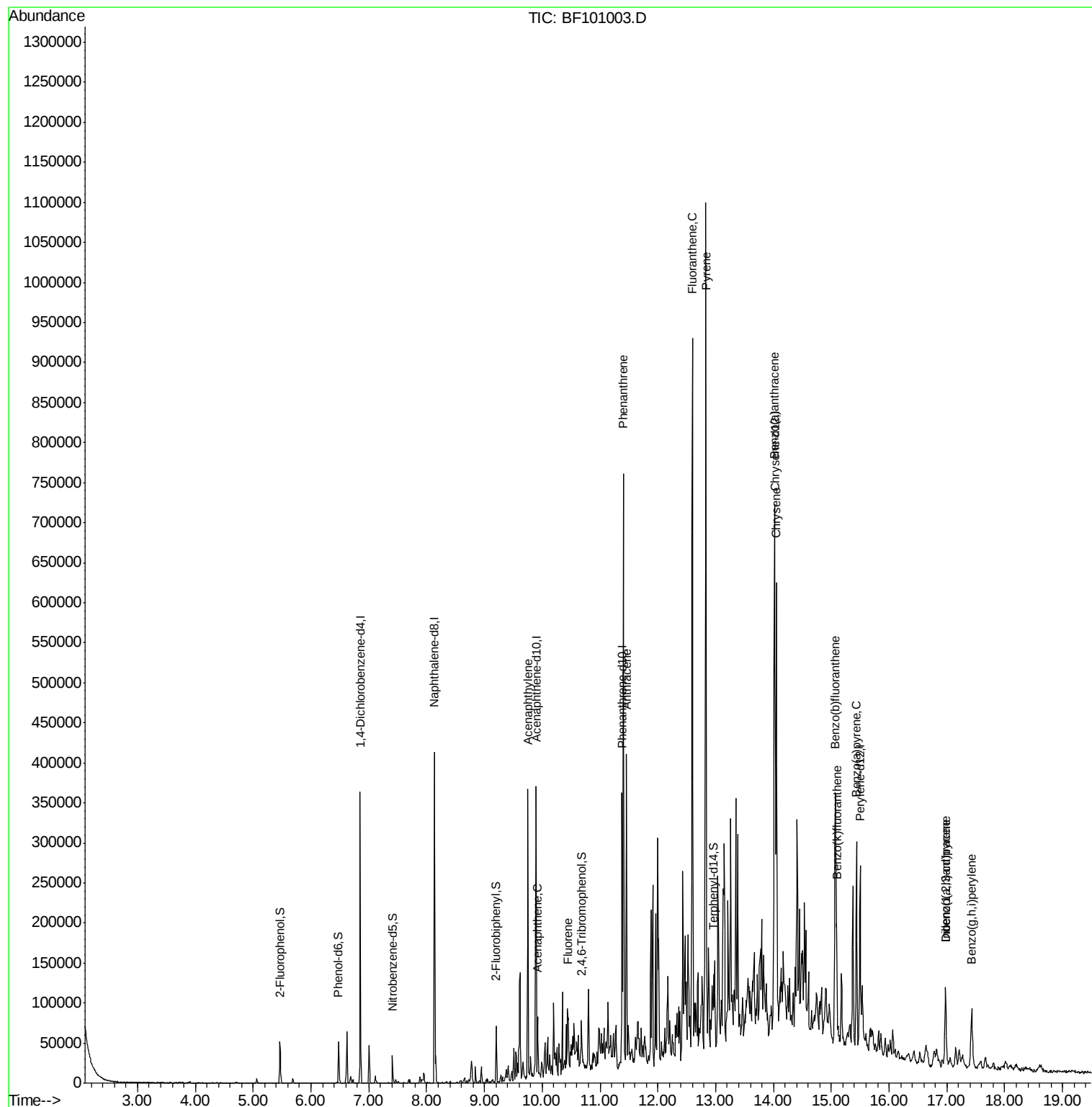
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
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#1

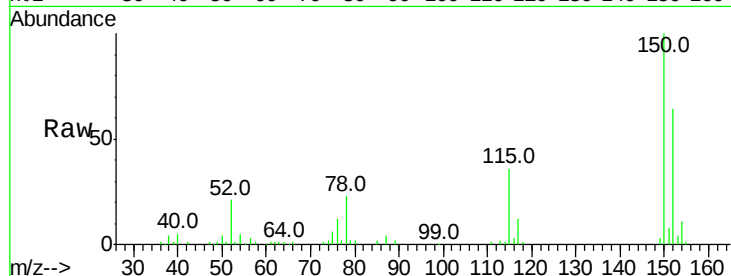
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Instrument :
BNA_F
ClientSampleId :
HAR-2-E(0-1)DL

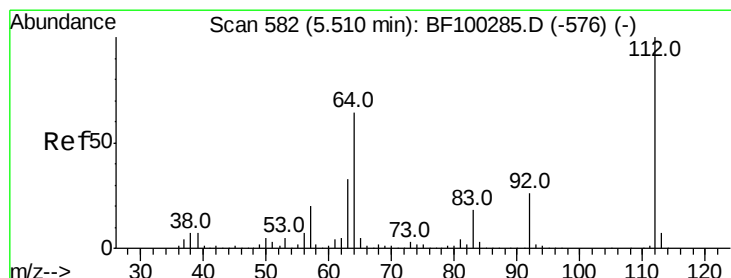
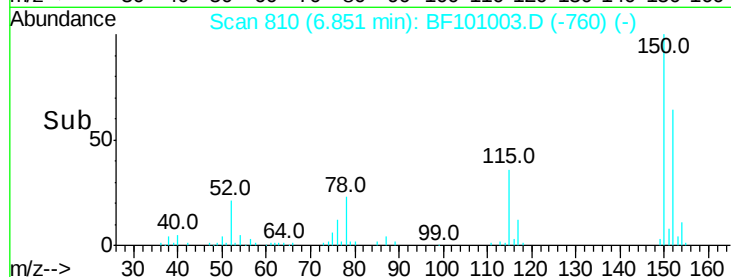
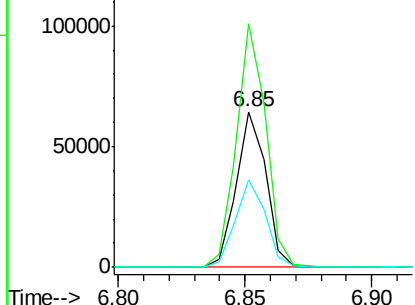
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	124.6	186.8
115	56.0	50.1	75.1

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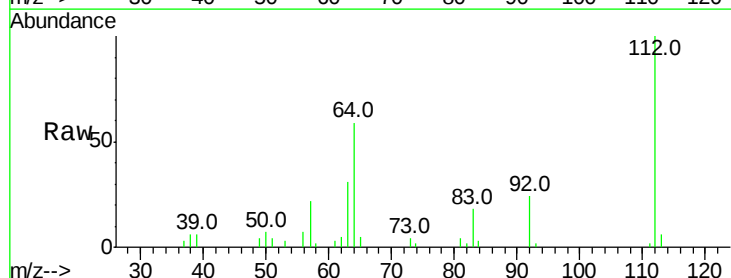
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



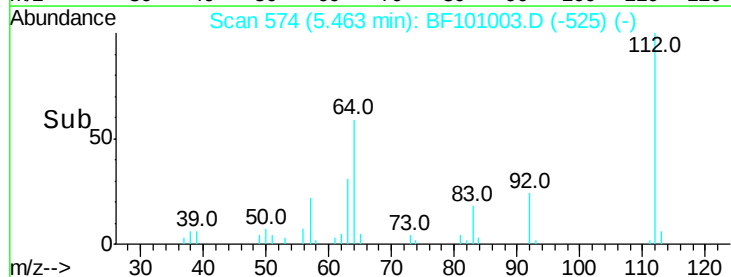
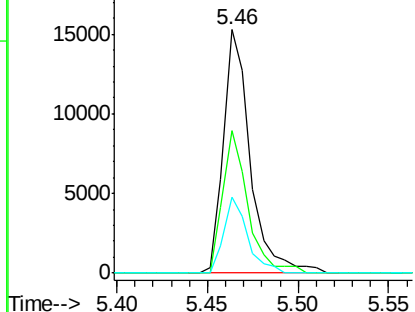
#5

2-Fluorophenol
Concen: 4.829 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.8	47.9	71.9
63	31.1	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.681 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

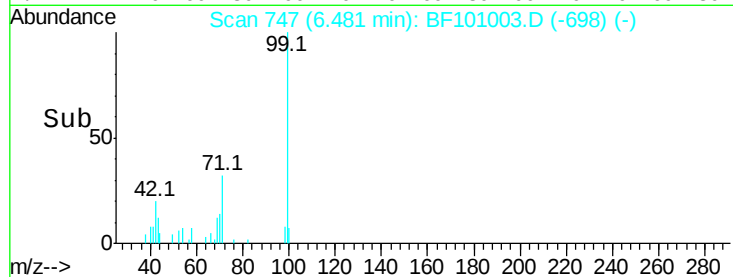
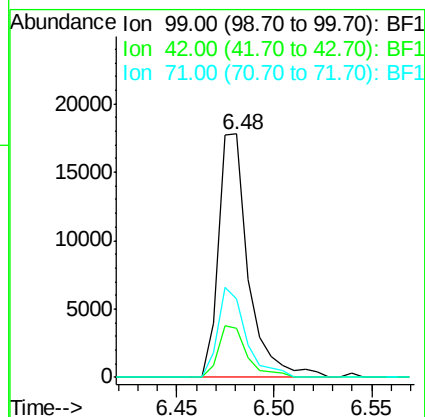
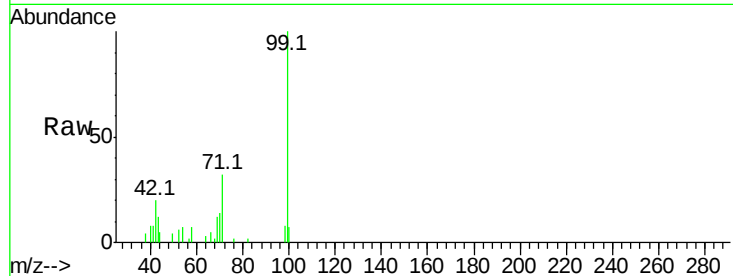
ClientSampleId :

HAR-2-E(0-1)DL

Tot Ion:	99	Resp:	18847
Ion Ratio	Lower	Upper	
99	100		
42	20.0	14.5	21.7
71	32.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

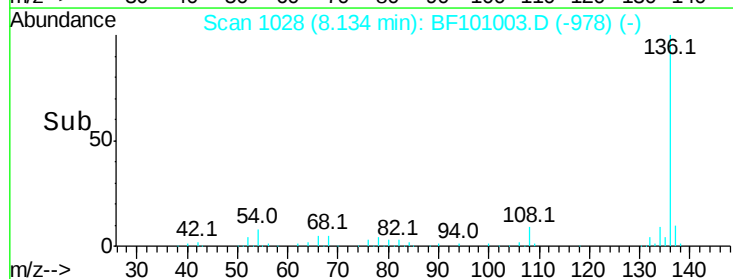
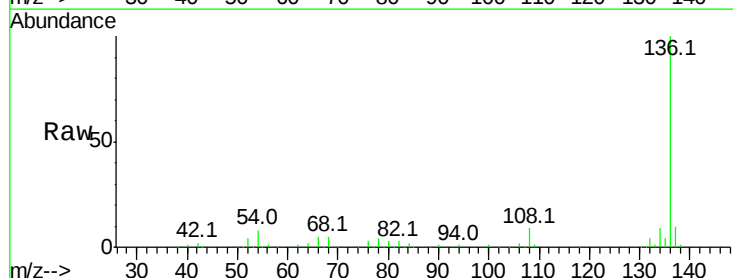
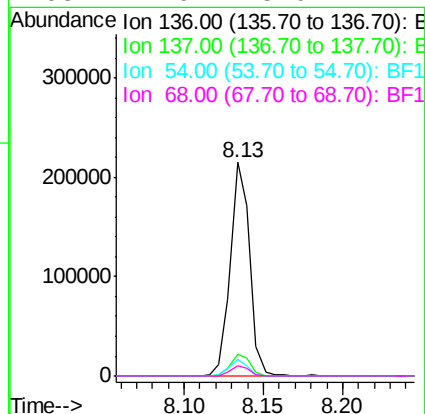
RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Tgt Ion:	136	Resp:	181713
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.9	13.3
54	7.7	6.6	9.8
68	4.9	5.0	7.4#





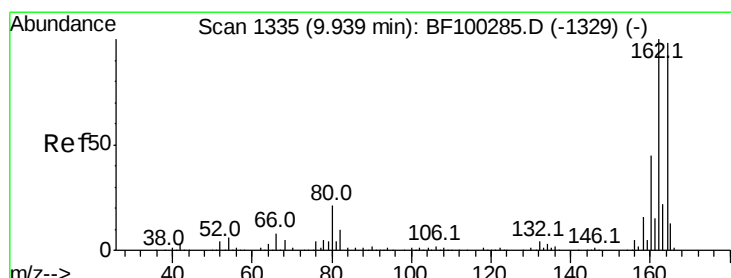
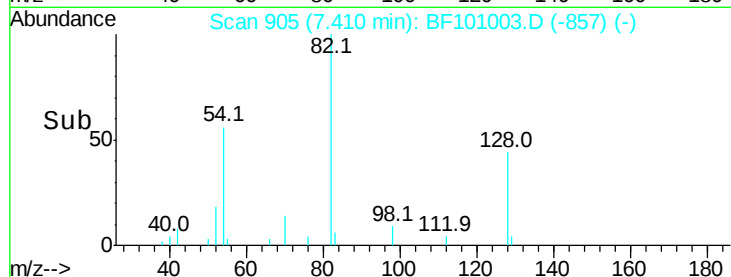
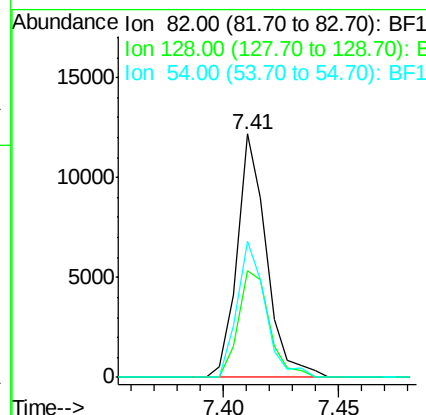
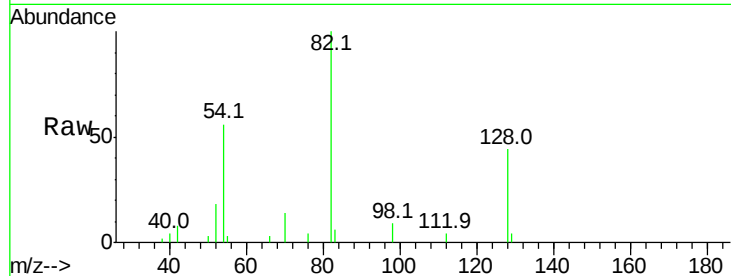
#23
 Nitrobenzene-d5
 Concen: 3.917 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.02 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Instrument :
 BNA_F
 ClientSampleId :
 HAR-2-E(0-1)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.6	36.1	54.1
54	55.8	41.4	62.2

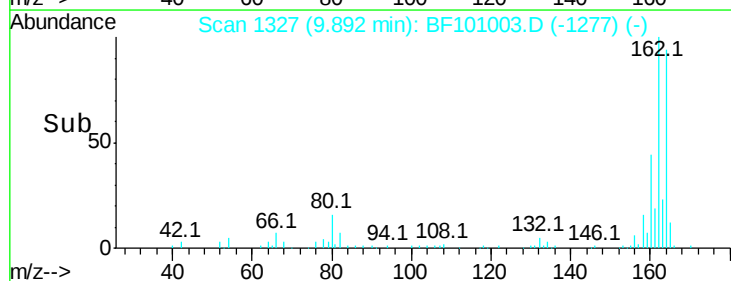
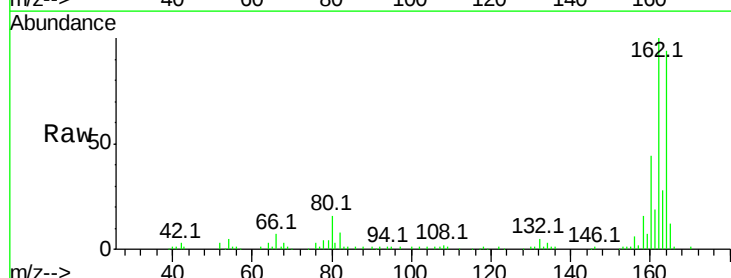
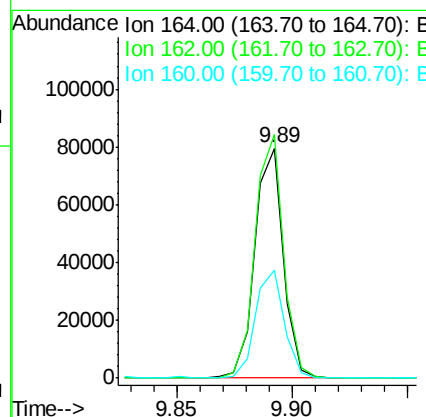
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.9	86.1	129.1
160	46.9	38.3	57.5





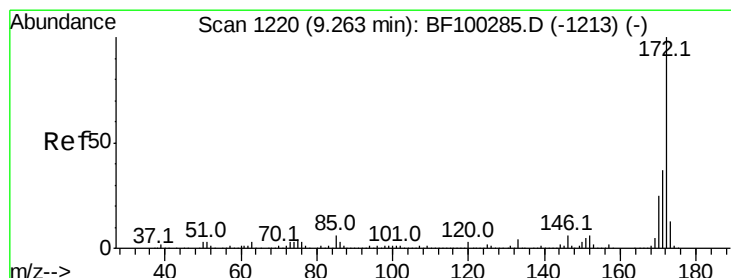
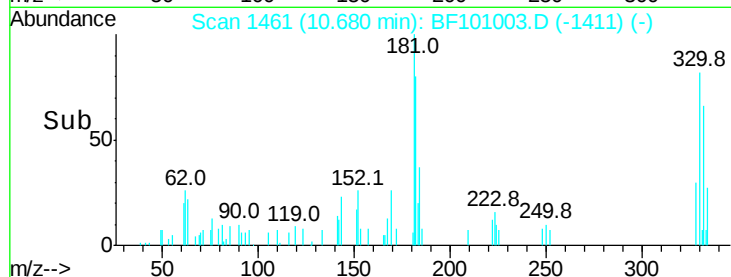
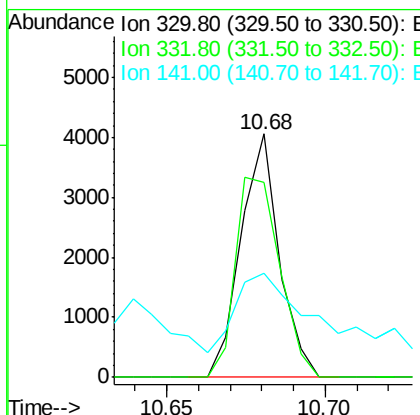
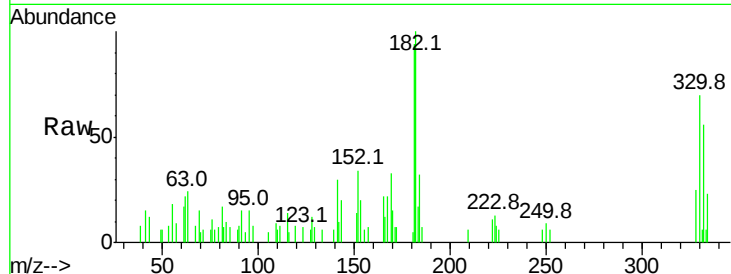
#41
 2,4,6-Tribromophenol
 Concen: 4.852 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Instrument :
 BNA_F
 ClientSampleId :
 HAR-2-E(0-1)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.0	77.0	115.6
141	127.8	29.9	44.9#

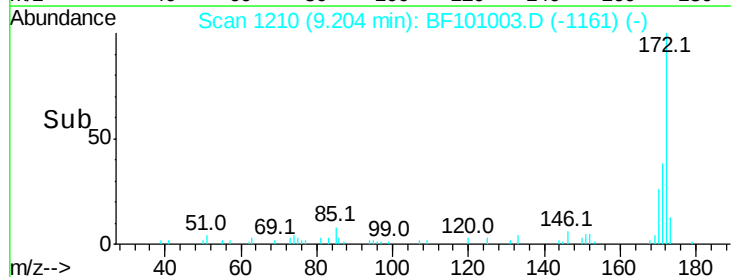
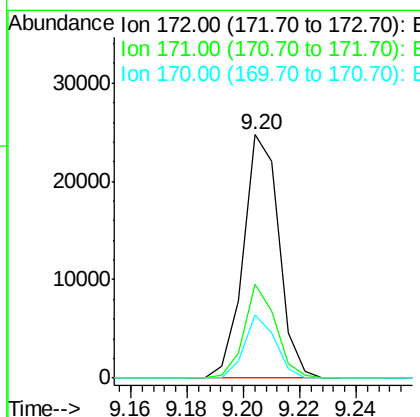
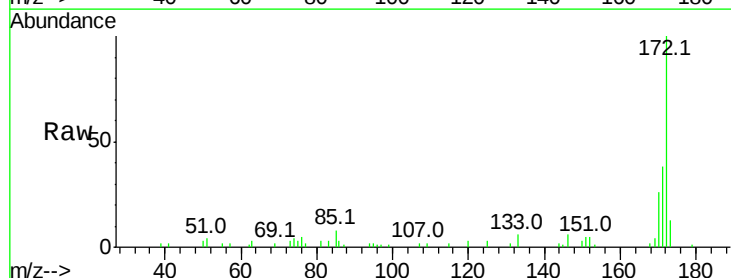
Manual Integrations
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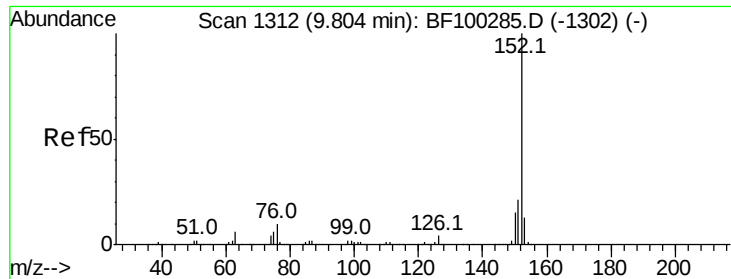
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#44
 2-Fluorobiphenyl
 Concen: 4.779 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.4	29.7	44.5
170	25.9	19.6	29.4





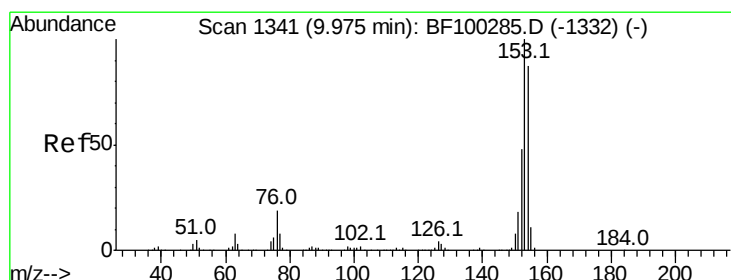
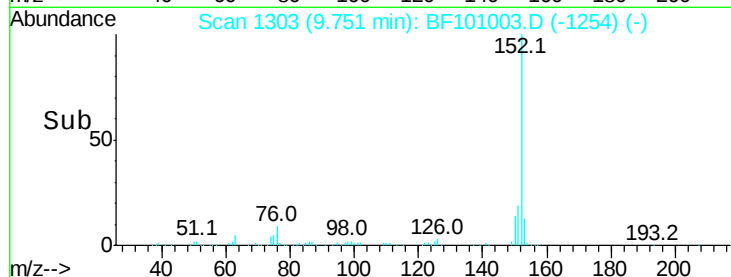
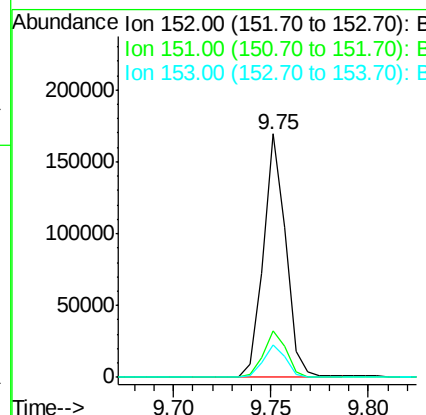
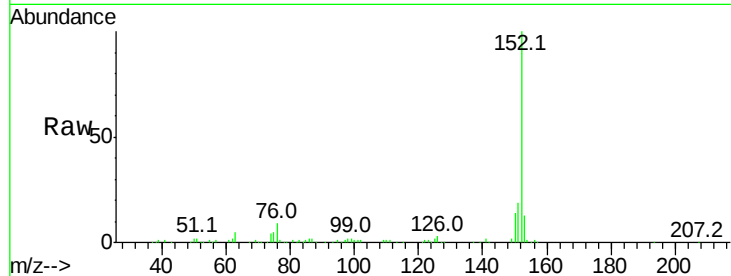
#48
Acenaphthylene
Concen: 18.833 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Instrument :
BNA_F
ClientSampleId :
HAR-2-E(0-1)DL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	134473		
151	19.2	16.3	24.5	
153	13.3	10.7	16.1	

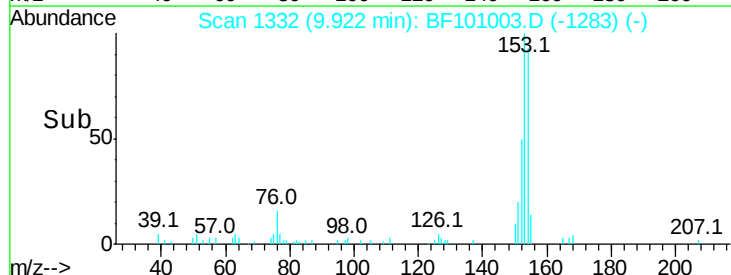
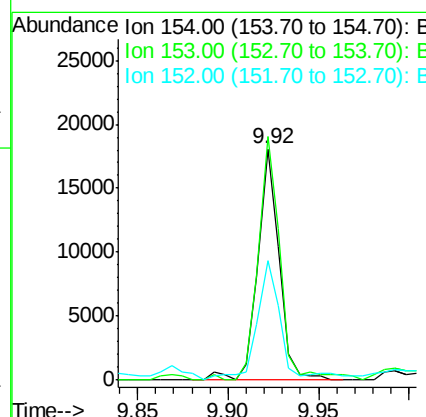
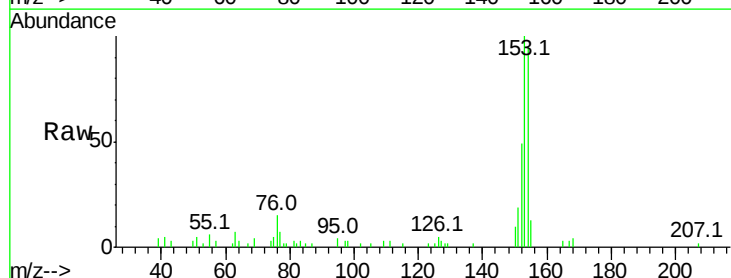
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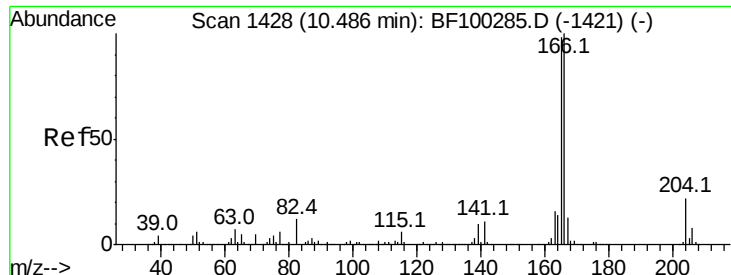
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#51
Acenaphthene
Concen: 3.417 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	14840		
153	105.2	91.2	136.8	
152	51.6	43.8	65.8	





#57

Fluorene

Concen: 7.239 ng

RT: 10.44 min Scan# 1420

Delta R.T. -0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

ClientSampleId :

HAR-2-E(0-1)DL

Tot Ion:166 Resp: 32277

Ion Ratio Lower Upper

166 100

165 99.0 79.8 119.8

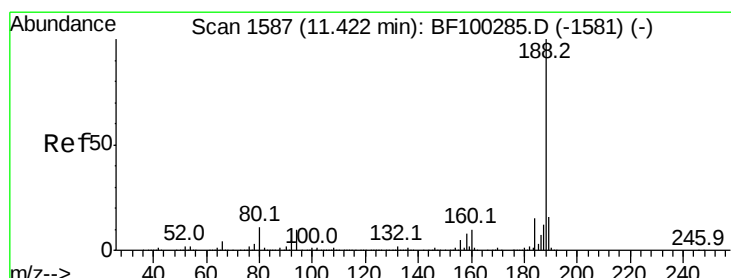
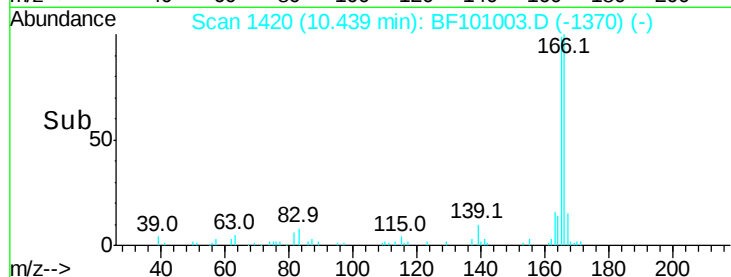
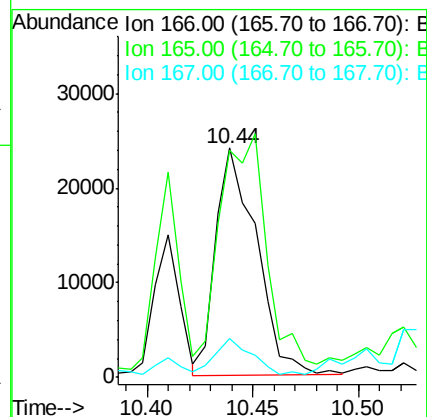
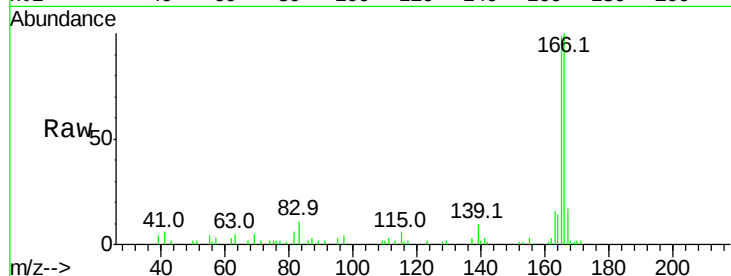
167 16.7 10.6 16.0#

Manual Integrations

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#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

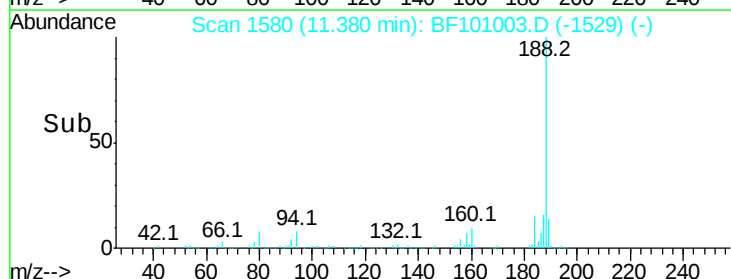
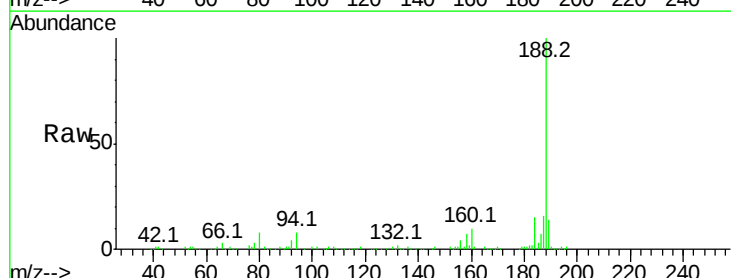
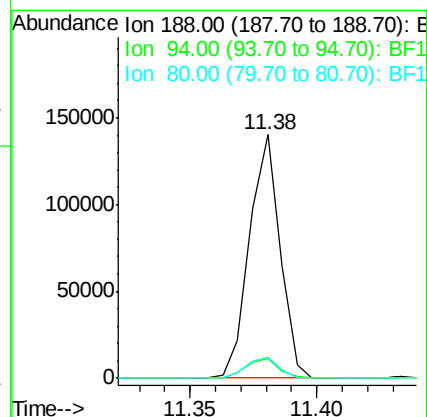
Tgt Ion:188 Resp: 117728

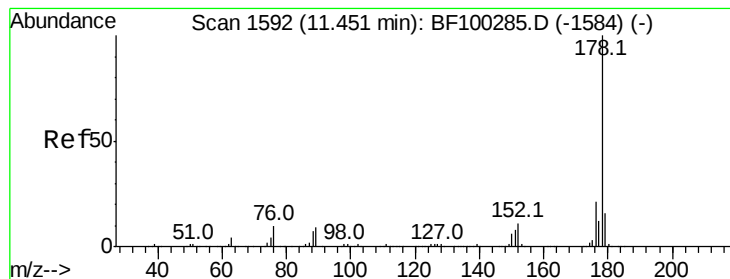
Ion Ratio Lower Upper

188 100

94 7.9 8.5 12.7#

80 8.4 9.2 13.8#





#70

Phenanthrene

Concen: 41.328 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

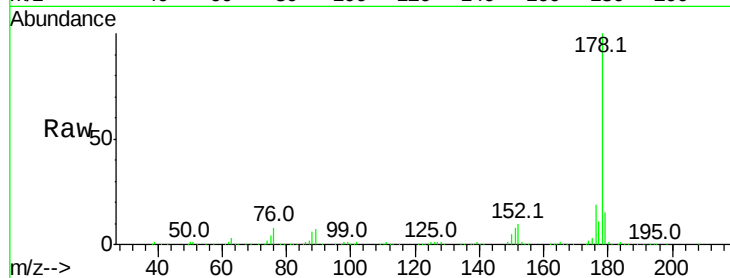
ClientSampleId :

HAR-2-E(0-1)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.4	13.0	19.6

Manual Integrations
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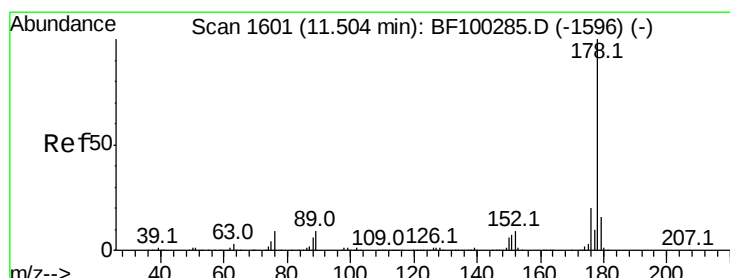
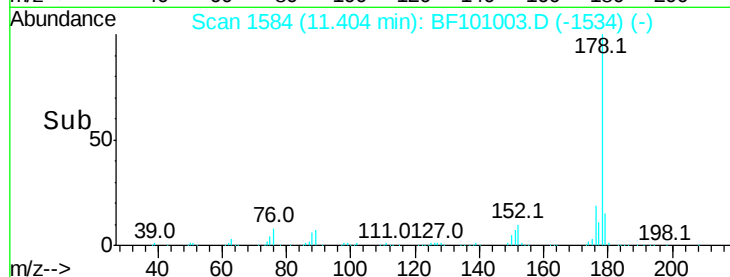
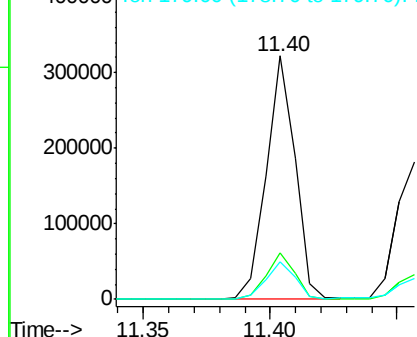
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 22.736 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF101003.D

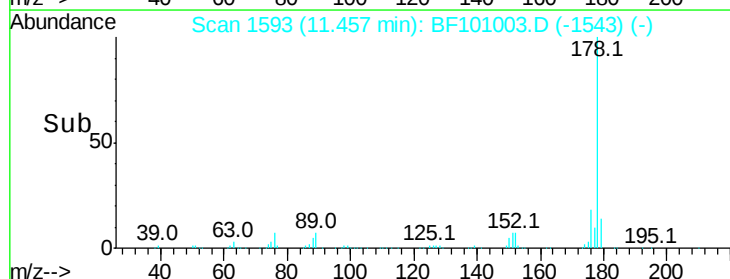
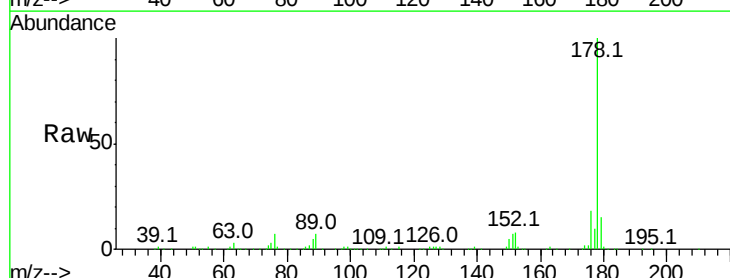
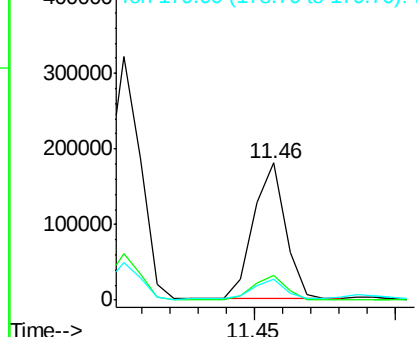
Acq: 30 Nov 2017 3:55

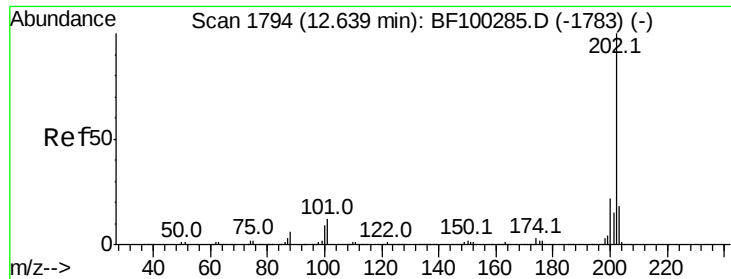
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.2
179	14.8	12.6	19.0

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 48.942 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.00 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

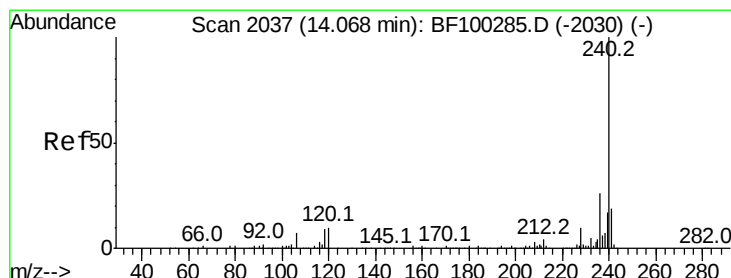
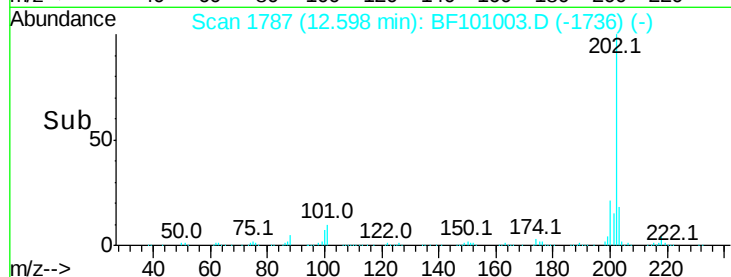
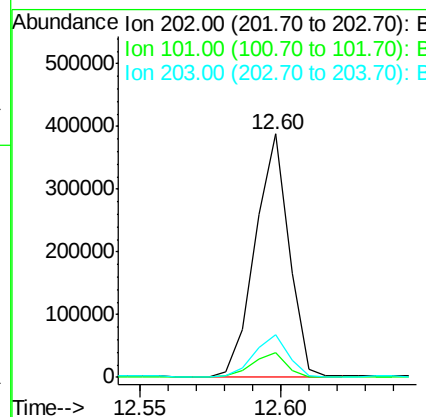
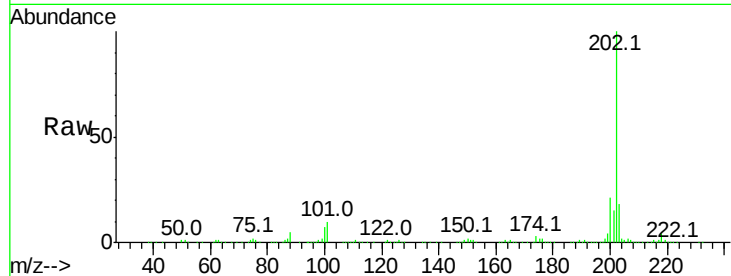
ClientSampleID :

HAR-2-E(0-1)DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	10.4	0.0	34.1	
203	17.8	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.000 ng

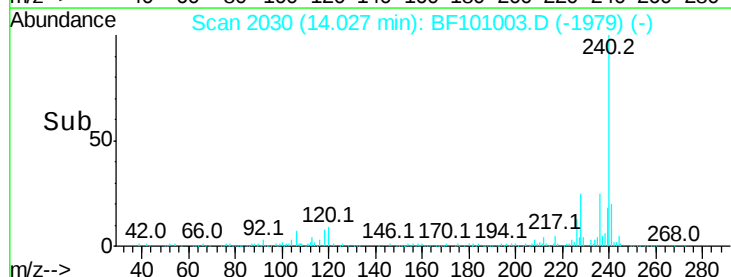
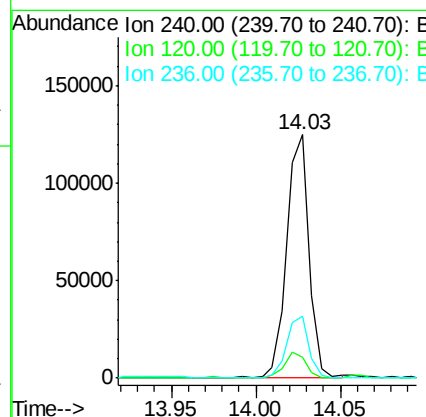
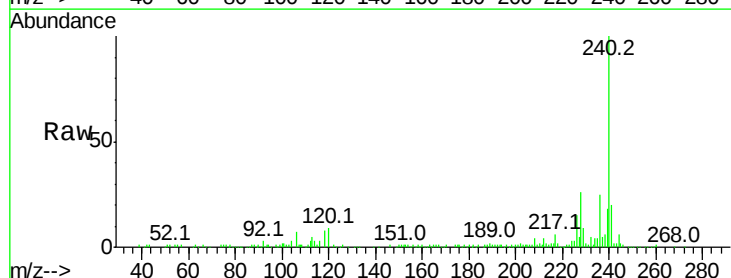
RT: 14.03 min Scan# 2030

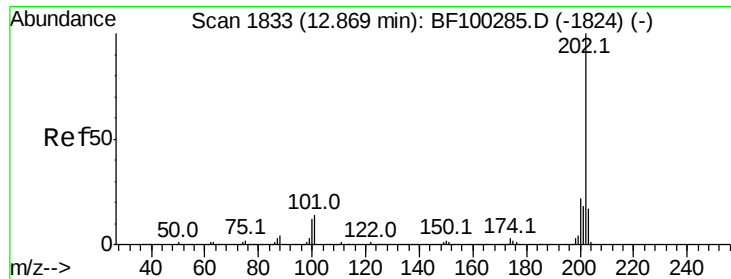
Delta R.T. 0.00 min

Lab File: BF101003.D

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Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	8.8	9.5	14.3#	
236	25.2	20.7	31.1	





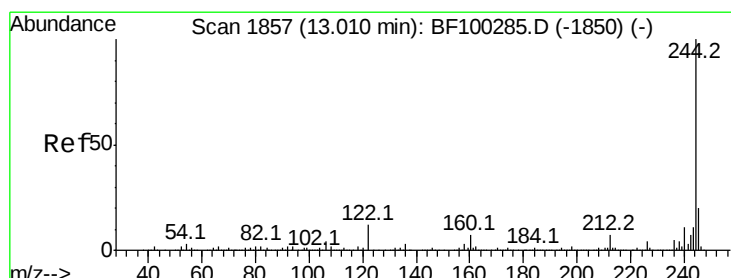
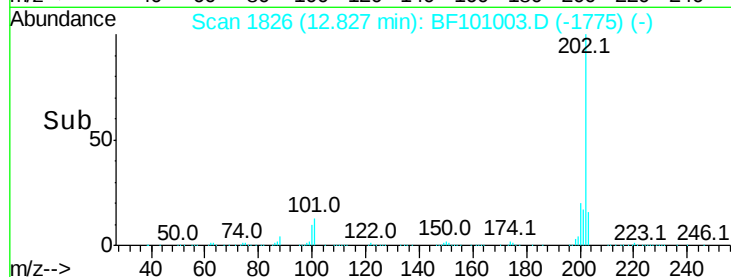
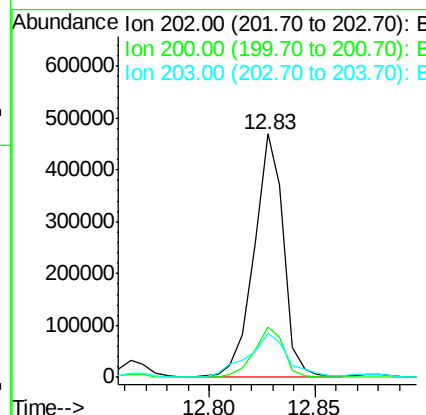
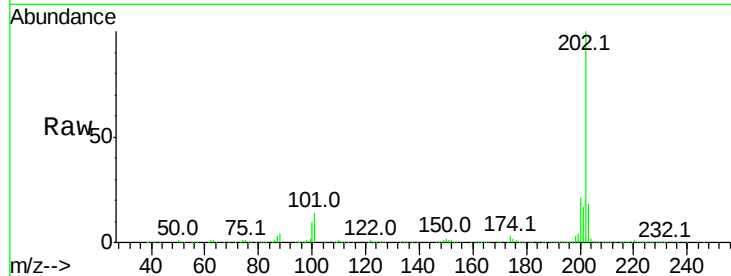
#77
Pvrene
Concen: 54.564 ng
RT: 12.83 min Scan# 1826
Delta R.T. 0.00 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Instrument :
BNA_F
ClientSampleId :
HAR-2-E(0-1)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.4	26.2
203	17.8	14.3	21.5

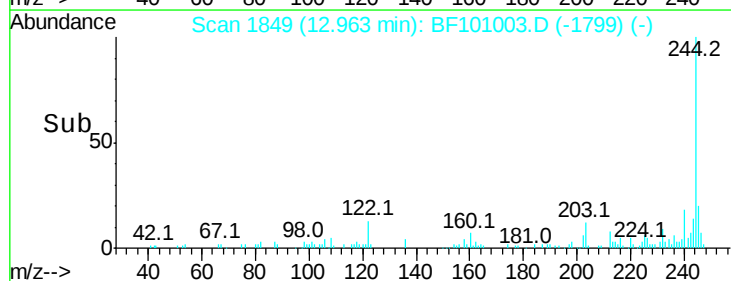
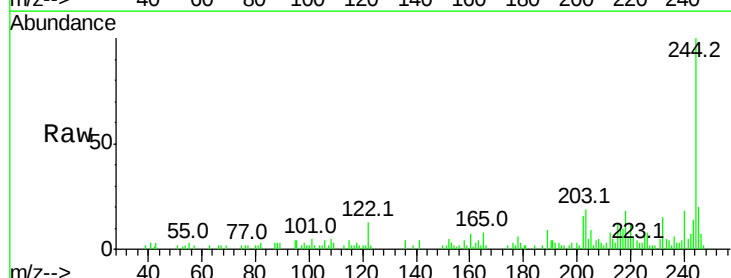
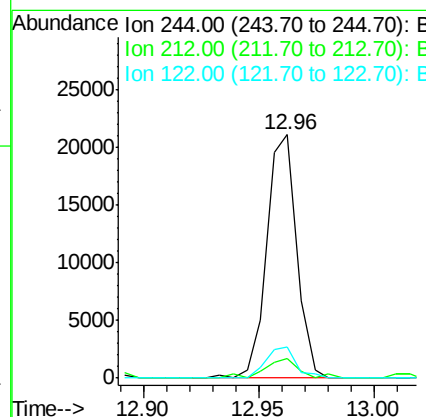
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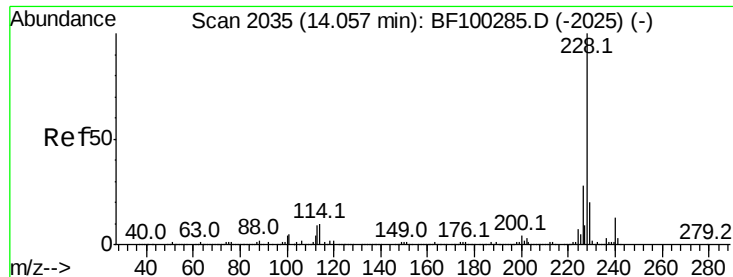
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#78
Terphenyl-d14
Concen: 3.792 ng
RT: 12.96 min Scan# 1849
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.9	5.4	8.0
122	13.0	11.0	16.4





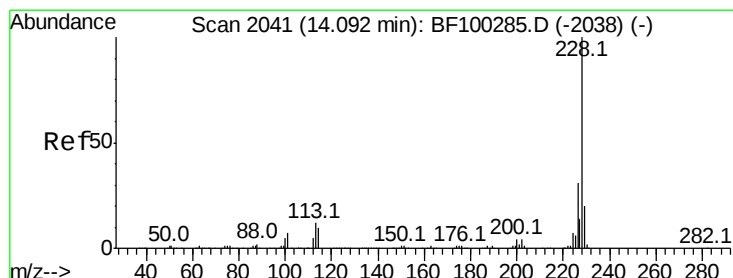
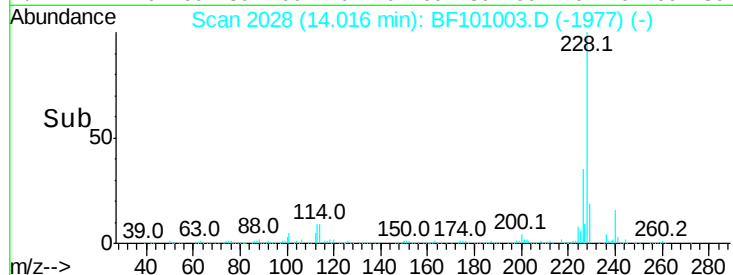
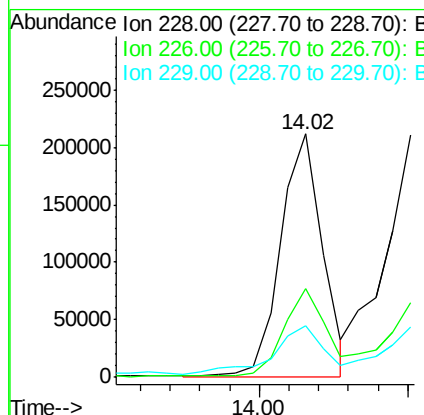
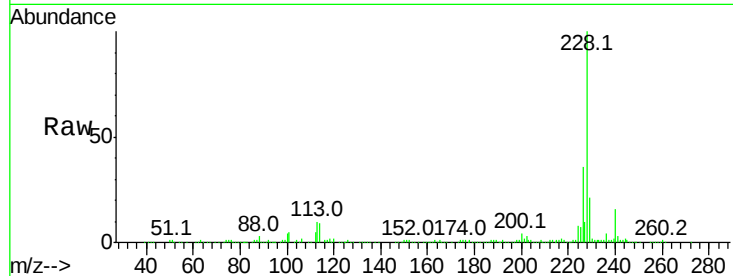
#80
Benzo(a)anthracene
Concen: 29.853 ng m
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Instrument :
BNA_F
ClientSampleId :
HAR-2-E(0-1)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	36.2	22.6	33.8#
229	21.2	15.8	23.6

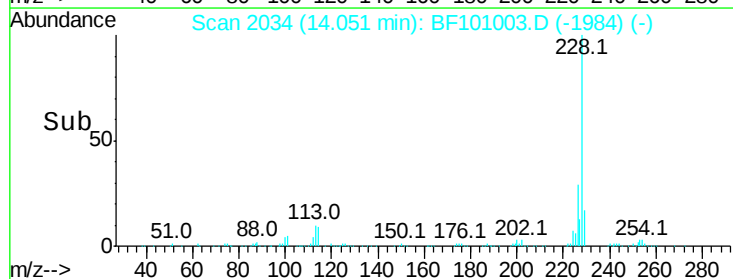
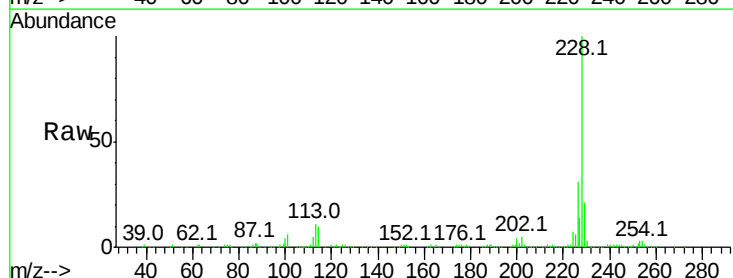
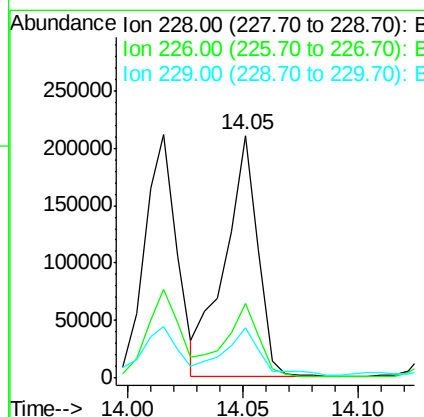
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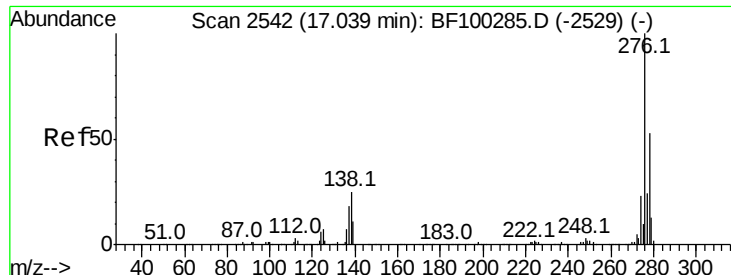
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#82
Chrysene
Concen: 30.827 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	20.5	16.2	24.4





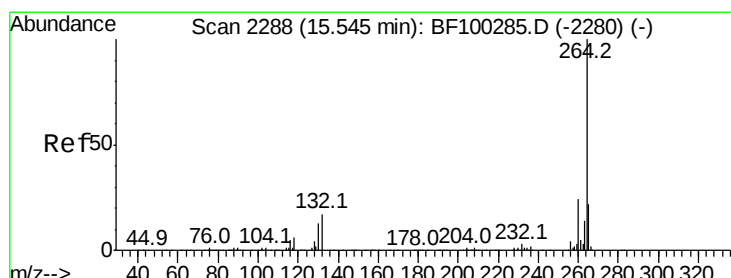
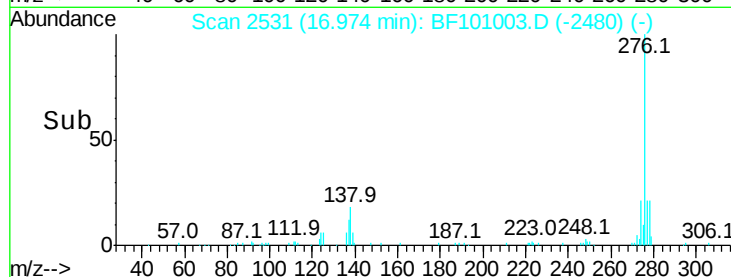
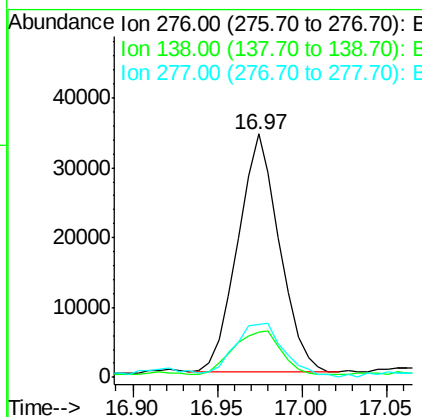
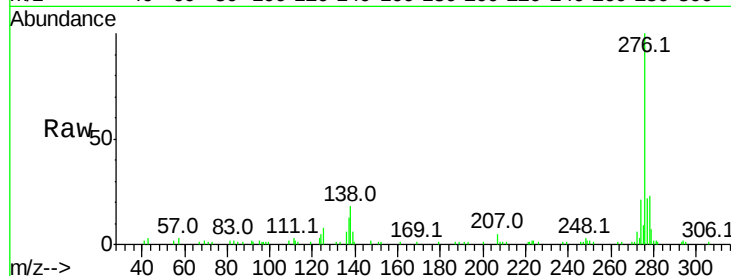
#85
Indeno(1,2,3-cd)pyrene
Concen: 10.726 ng
RT: 16.97 min Scan# 2531
Delta R.T. 0.00 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Instrument :
BNA_F
ClientSampleId :
HAR-2-E(0-1)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.4	25.0	37.6#
277	27.4	20.1	30.1

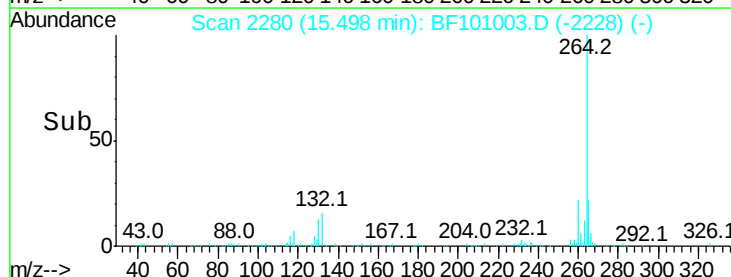
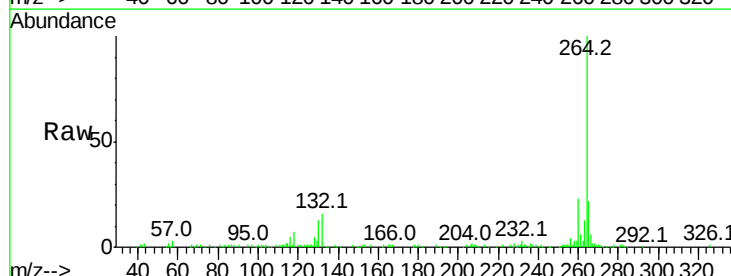
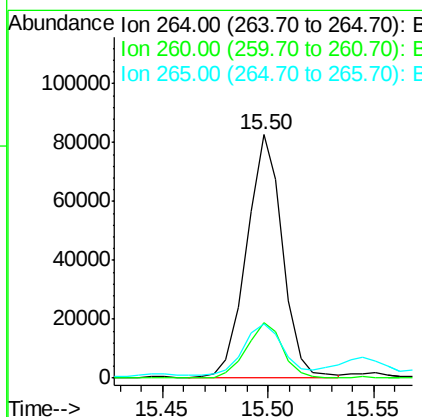
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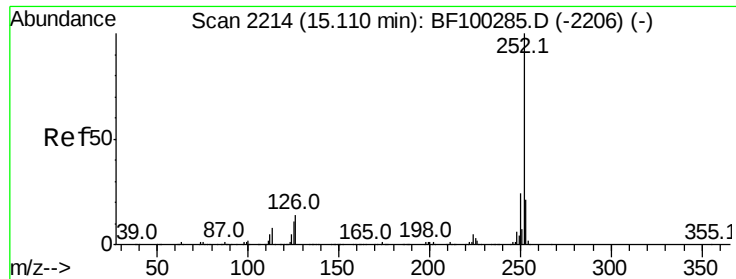
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.2	28.8
265	22.4	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 30.670 ng m

RT: 15.07 min Scan# 2207

Delta R.T. 0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

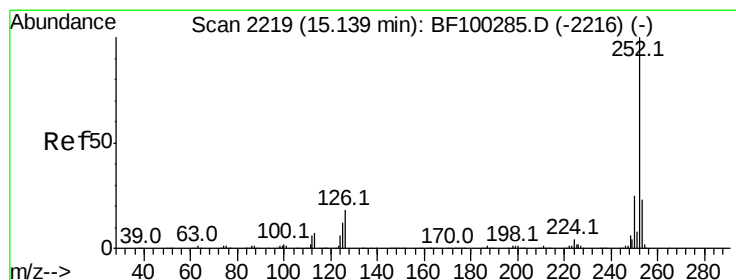
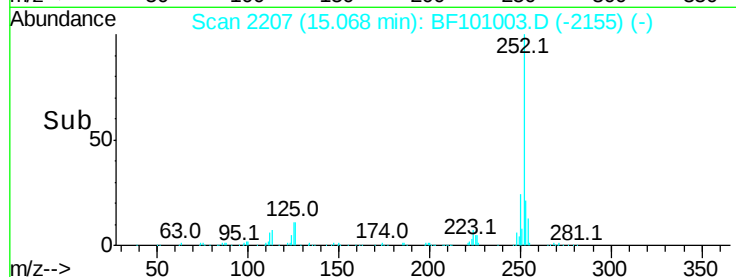
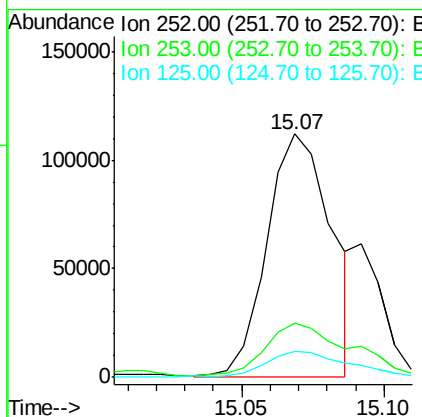
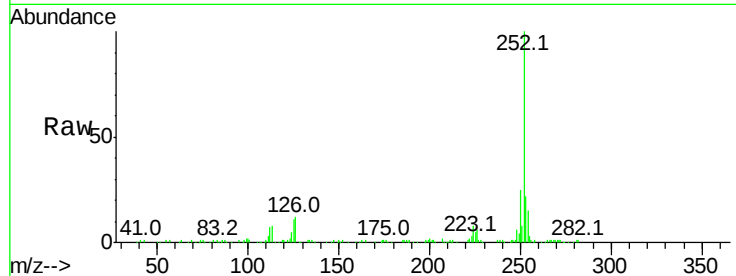
ClientSampleId :

HAR-2-E(0-1)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	10.8	9.0	13.6

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 8.362 ng m

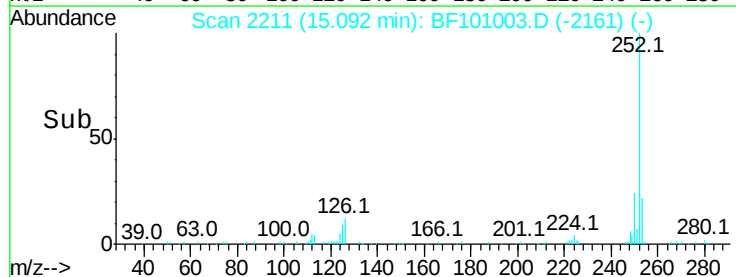
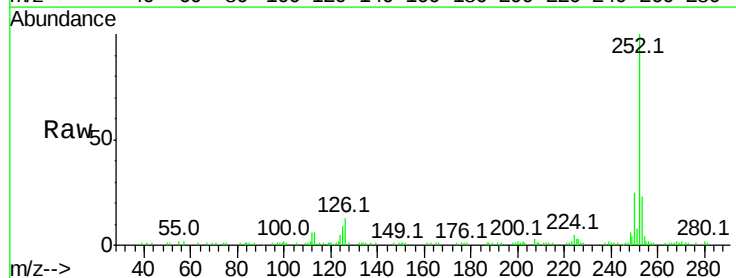
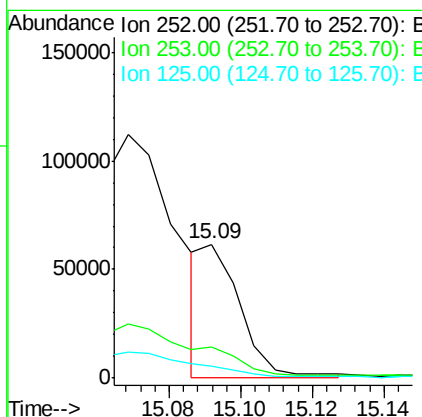
RT: 15.09 min Scan# 2211

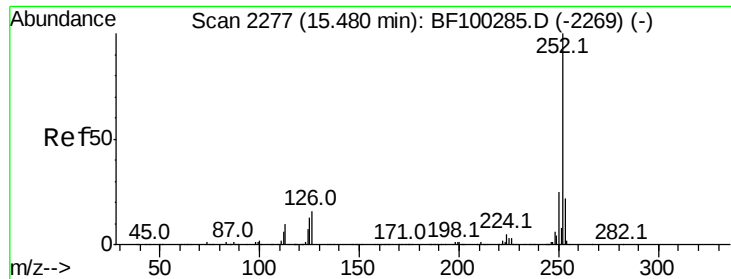
Delta R.T. -0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	9.3	10.2	15.2#





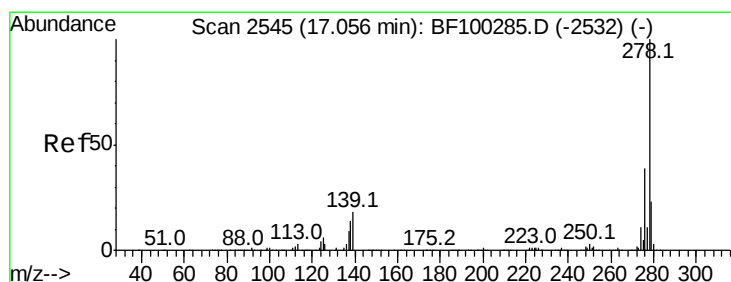
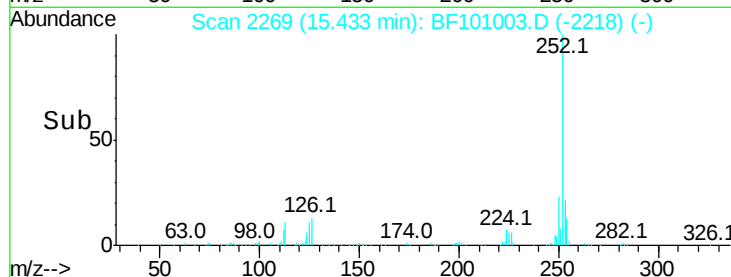
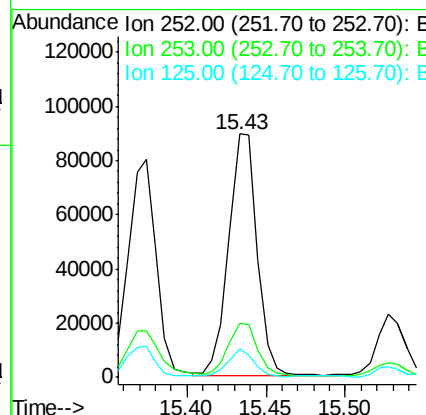
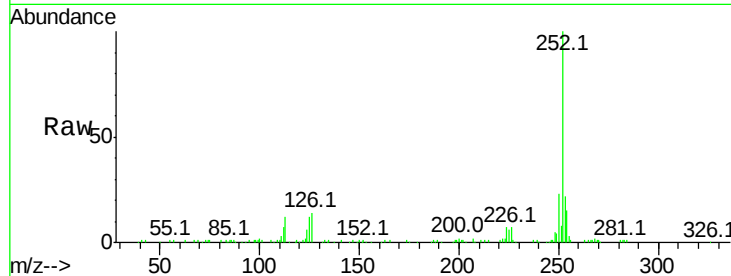
#89
Benzo(a)pyrene
Concen: 21.825 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.00 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Instrument :
BNA_F
ClientSampleId :
HAR-2-E(0-1)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	11.8	9.8	14.6

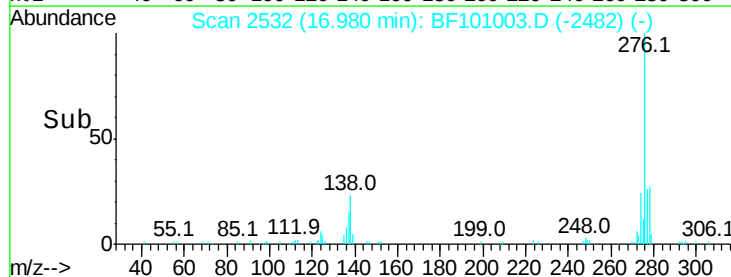
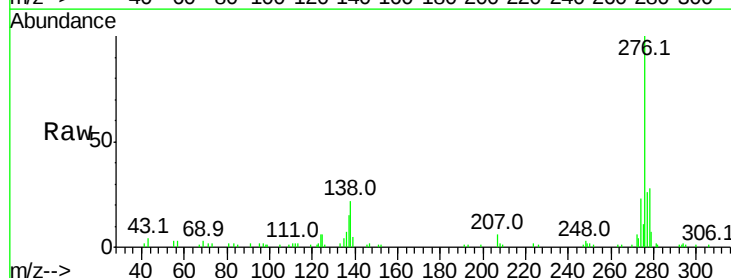
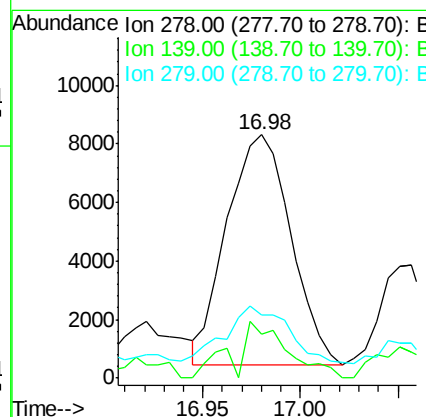
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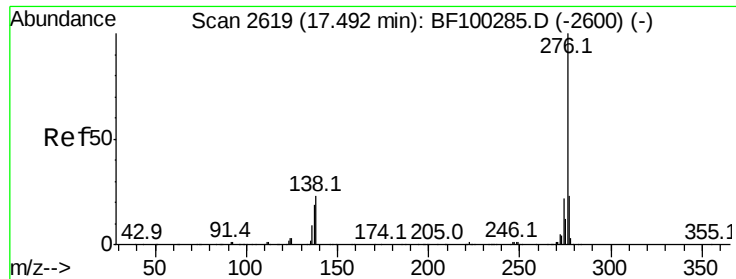
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 4.278 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.1	15.9	23.9
279	25.7	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 14.680 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. 0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Instrument :
 BNA_F
 ClientSampleID :
 HAR-2-E(0-1)DL

Tot Ion:	276	Resp:	60213
Ion Ratio		Lower	Upper
276	100		
277	24.3	17.9	26.9
138	20.9	21.8	32.8#

Manual Integrations
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