

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
 Data File : BF098716.D
 Acq On : 23 Sep 2017 00:35
 Operator : SJ/JU
 Sample : I5304-05 20X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SASP2P-ENV-118-6(5-10)

Manual Integrations
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 9/25/2017 6:21:21 PM

Quant Time: Sep 23 02:55:25 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 22 10:38:37 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	139102	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	563243	20.00	ng	0.00
38) Acenaphthene-d10	9.96	164	227175	20.00	ng	0.00
63) Phenanthrene-d10	11.45	188	335355	20.00	ng	0.00
75) Chrysene-d12	14.10	240	283597	20.00	ng	0.01
86) Perylene-d12	15.59	264	284620	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.53	112	52134	5.69	ng	0.00
7) Phenol-d6	6.53	99	66028	5.95	ng	-0.01
23) Nitrobenzene-d5	7.48	82	33927	4.09	ng	-0.01
41) 2,4,6-Tribromophenol	10.75	330	8854	4.26	ng	0.00
44) 2-Fluorobiphenyl	9.28	172	66884	4.68	ng	0.00
78) Terphenyl-d14	13.03	244	52322	3.96	ng	0.00

Target Compounds

						Qvalue
51) Acenaphthene	10.00	154	141350	10.116	ng	99
57) Fluorene	10.51	166	69343	4.522	ng	98
70) Phenanthrene	11.49	178	1949695	107.172	ng	99
71) Anthracene	11.53	178	684357	36.894	ng	99
72) Carbazole	11.68	167	239585	13.218	ng	99
74) Fluoranthene	12.69	202	3773322	208.126	ng	98
77) Pyrene	12.92	202	3280749	155.821	ng	98
80) Benzo(a)anthracene	14.09	228	1547569	90.595	ng	98
82) Chrysene	14.13	228	1250341	75.793	ng	98
85) Indeno(1,2,3-cd)pyrene	17.10	276	233178	18.221	ng	95
87) Benzo(b)fluoranthene	15.16	252	1089212m	65.986	ng	
88) Benzo(k)fluoranthene	15.18	252	446941m	27.095	ng	
89) Benzo(a)pyrene	15.53	252	666670	44.472	ng	96
90) Dibenzo(a,h)anthracene	17.10	278	56343m	4.444	ng	
91) Benzo(a,h,i)perylene	17.55	276	194514	15.263	ng	99

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

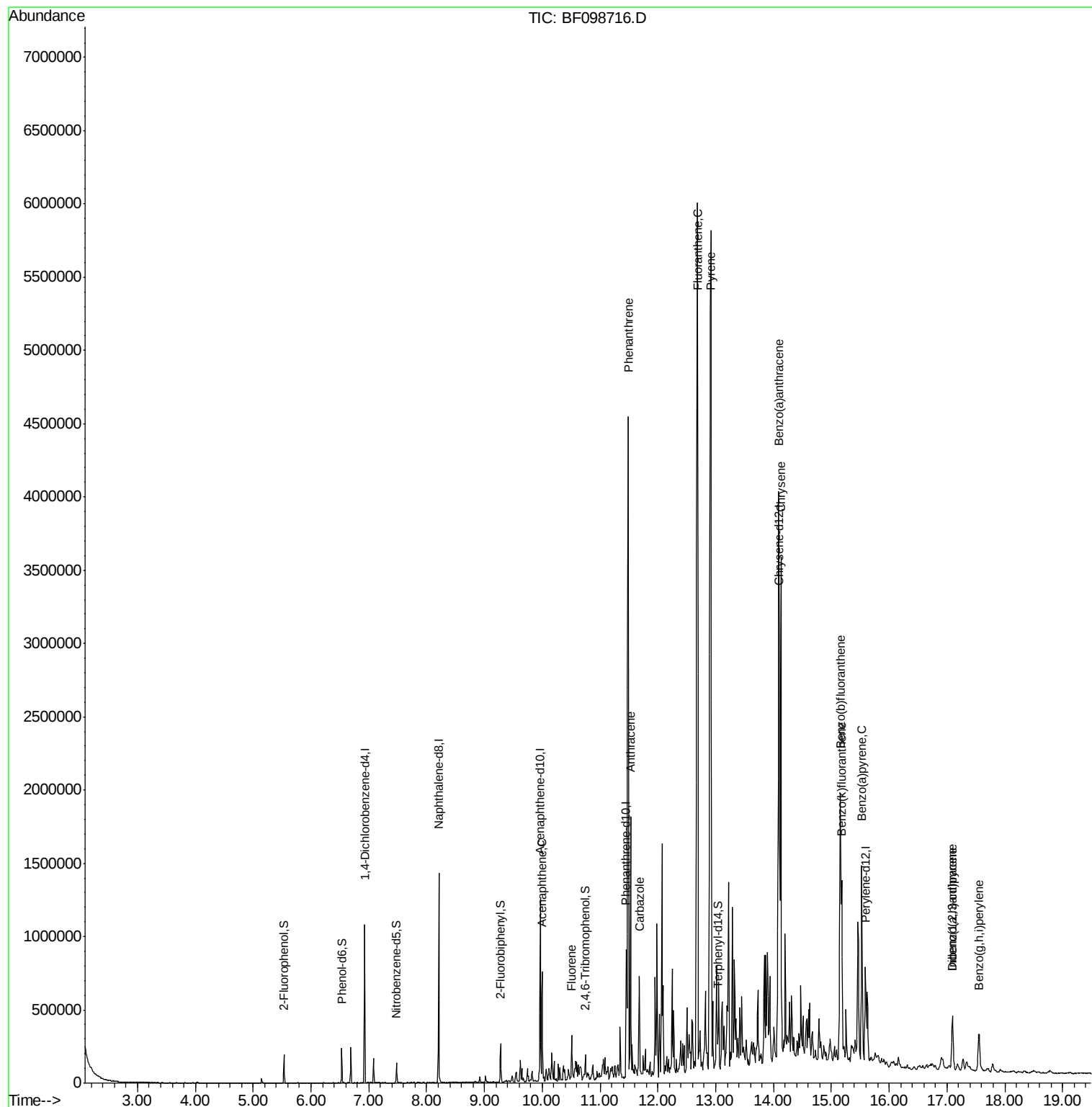
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#1

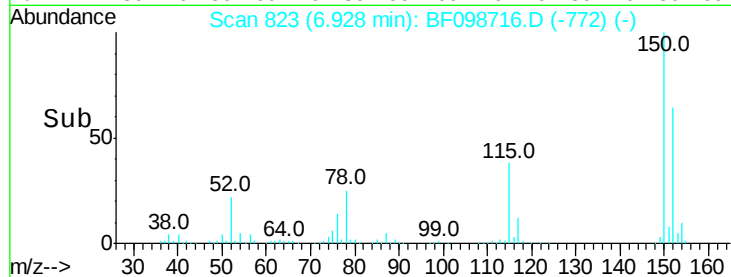
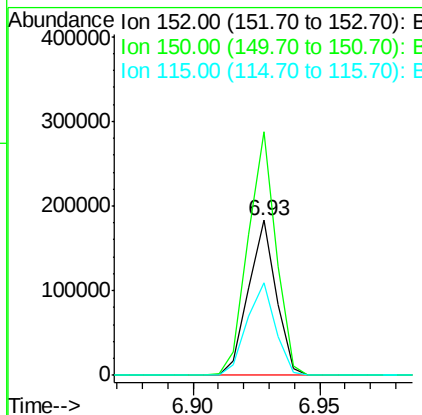
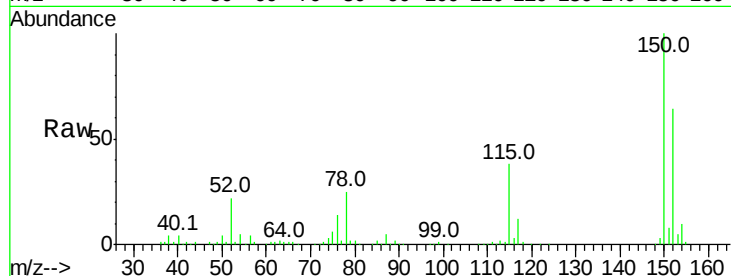
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.93 min Scan# 823
Delta R.T. 0.00 min
Lab File: BF098716.D
Acq: 23 Sep 2017 00:35

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-118-6(5-10)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.6	186.8
115	60.2	50.1	75.1

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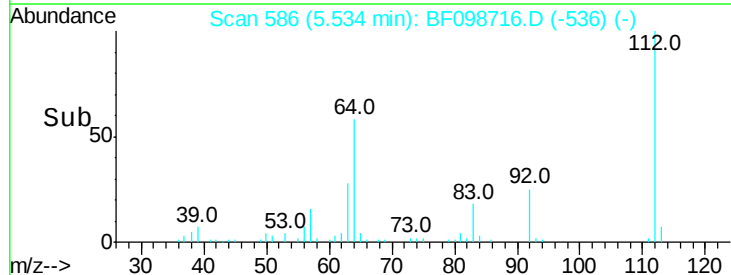
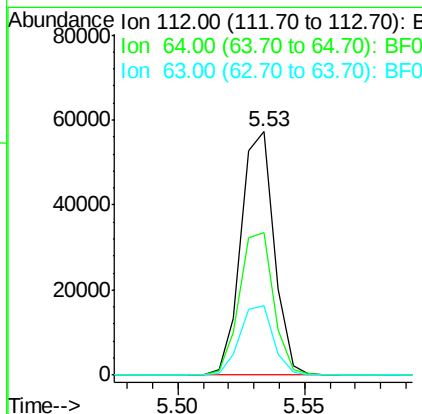
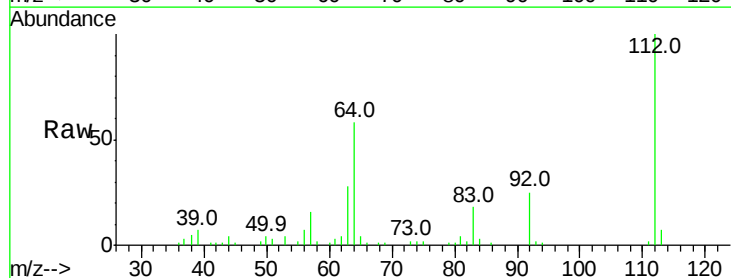
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#5

2-Fluorophenol
Concen: 5.691 ng
RT: 5.53 min Scan# 586
Delta R.T. -0.01 min
Lab File: BF098716.D
Acq: 23 Sep 2017 00:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.3	47.9	71.9
63	28.4	23.7	35.5





#7

Phenol-d6

Concen: 5.952 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Instrument :

BNA_F

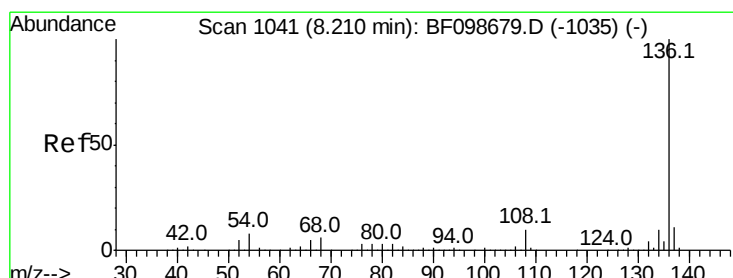
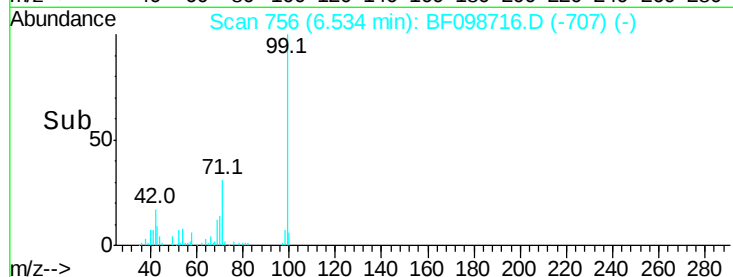
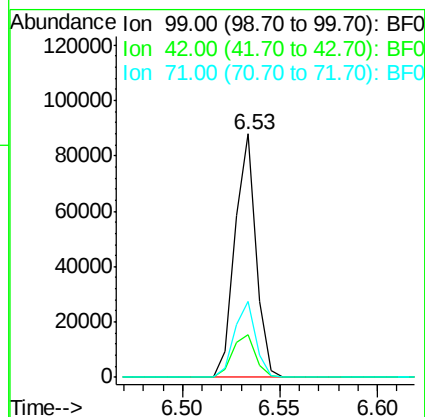
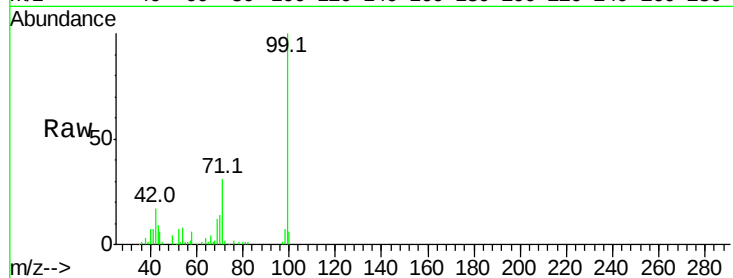
ClientSampleId :

SASP2P-ENV-118-6(5-10)

Tot Ion:	99	Resp:	66028
Ion Ratio	Lower	Upper	
99	100		
42	17.4	14.5	21.7
71	31.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

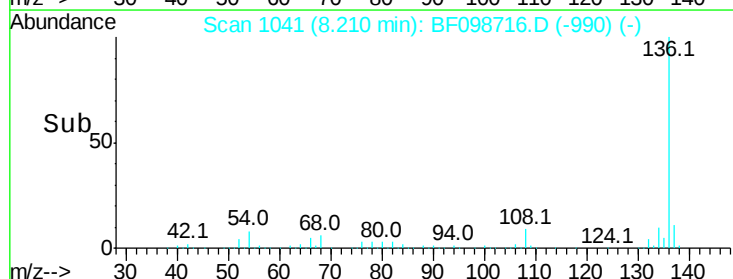
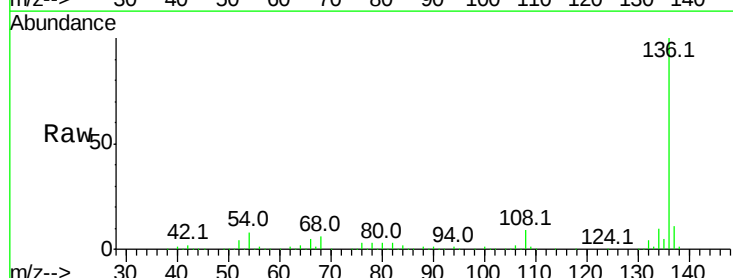
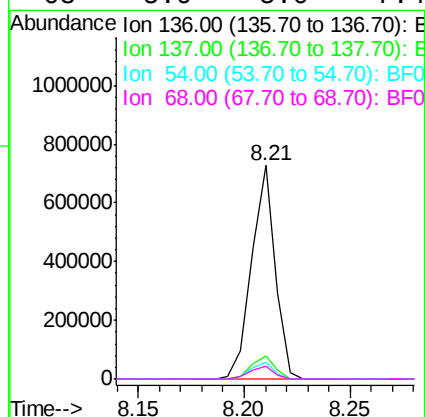
RT: 8.21 min Scan# 1041

Delta R.T. 0.00 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Tgt Ion:	136	Resp:	563243
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	7.5	6.6	9.8
68	5.9	5.0	7.4





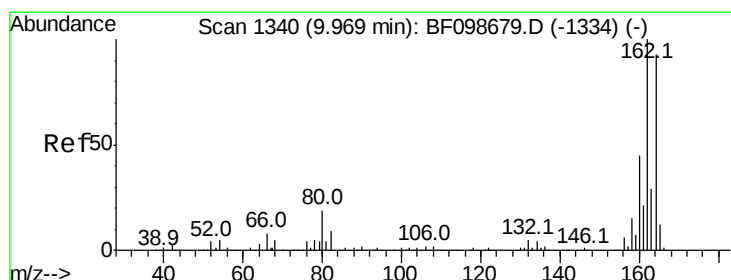
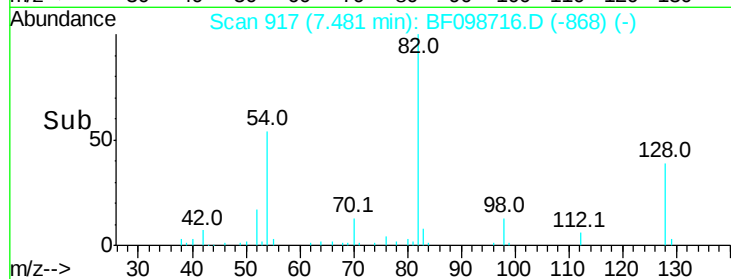
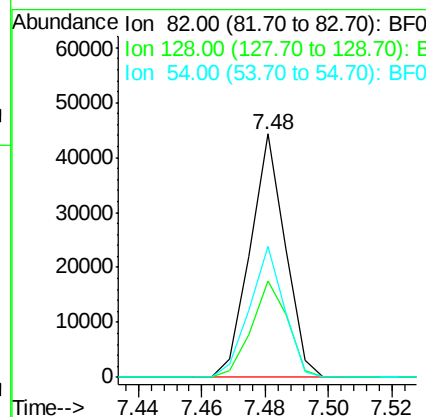
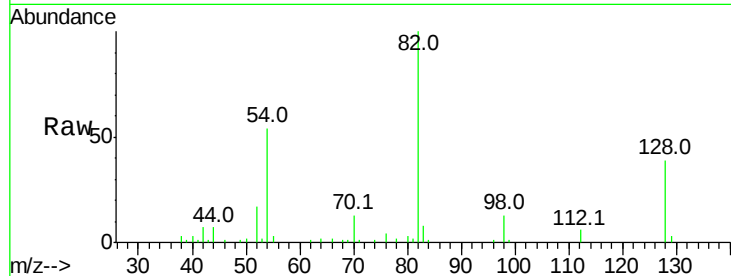
#23
 Nitrobenzene-d5
 Concen: 4.086 ng
 RT: 7.48 min Scan# 917
 Delta R.T. -0.01 min
 Lab File: BF098716.D
 Acq: 23 Sep 2017 00:35

Instrument :
 BNA_F
 ClientSampleId :
 SASP2P-ENV-118-6(5-10)

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.5	36.1	54.1
54	53.9	41.4	62.2

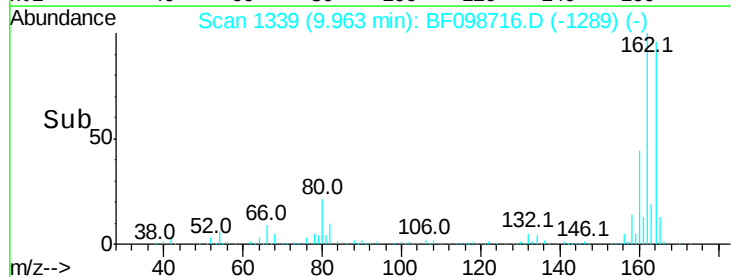
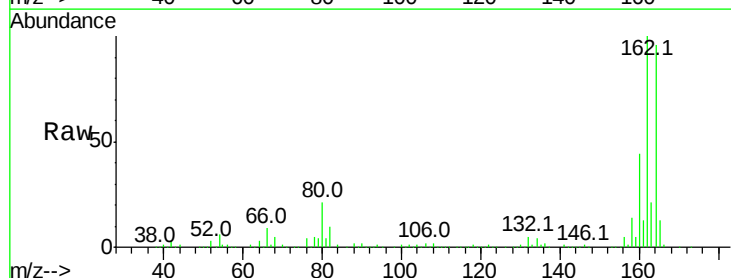
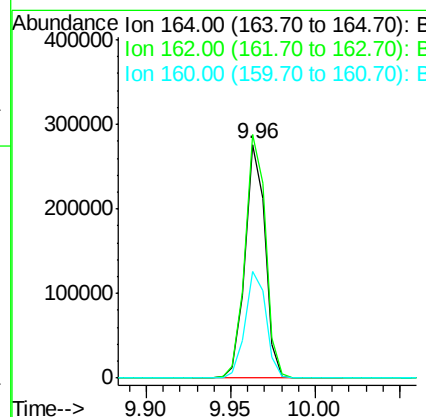
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.96 min Scan# 1339
 Delta R.T. -0.01 min
 Lab File: BF098716.D
 Acq: 23 Sep 2017 00:35

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	86.1	129.1
160	45.8	38.3	57.5





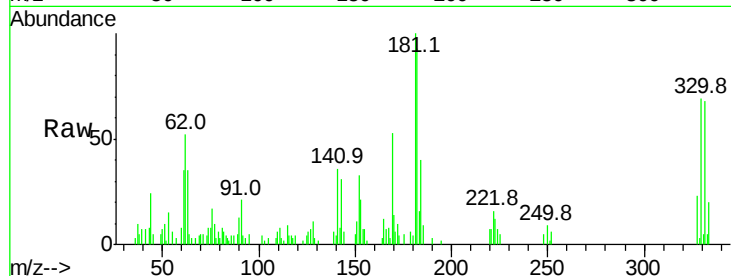
#41
 2,4,6-Tribromophenol
 Concen: 4.262 ng
 RT: 10.75 min Scan# 1472
 Delta R.T. -0.01 min
 Lab File: BF098716.D
 Acq: 23 Sep 2017 00:35

Instrument :
 BNA_F
 ClientSampleId :
 SASP2P-ENV-118-6(5-10)

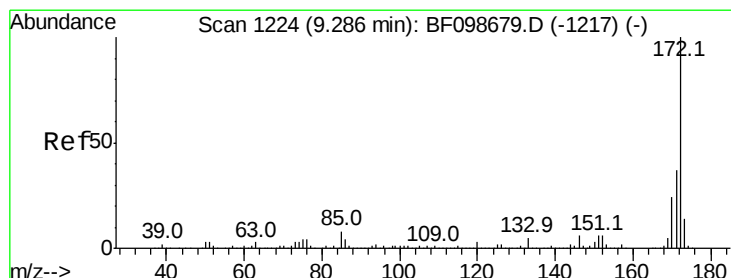
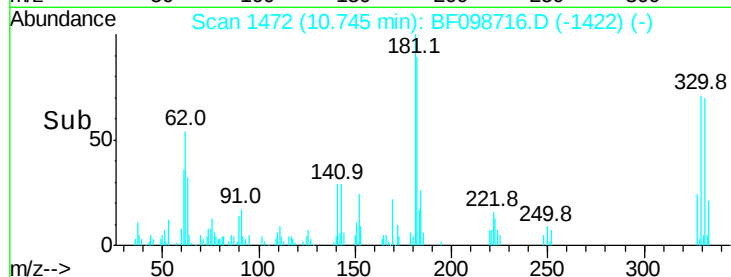
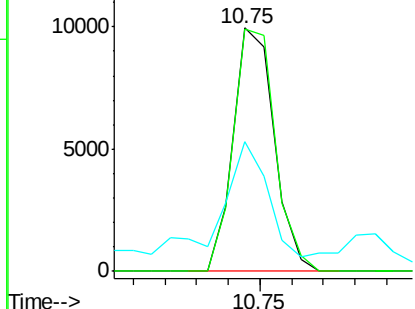
Tot Ion	Ratio	Lower	Upper
330	100		
332	101.9	77.0	115.6
141	60.8	29.9	44.9

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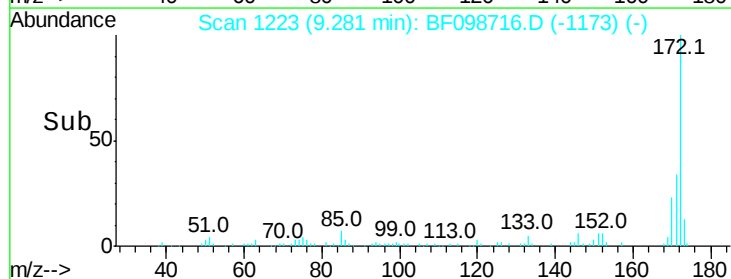
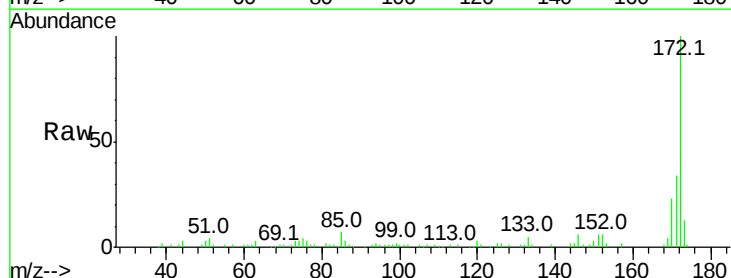
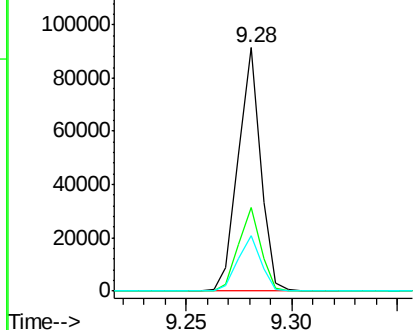
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

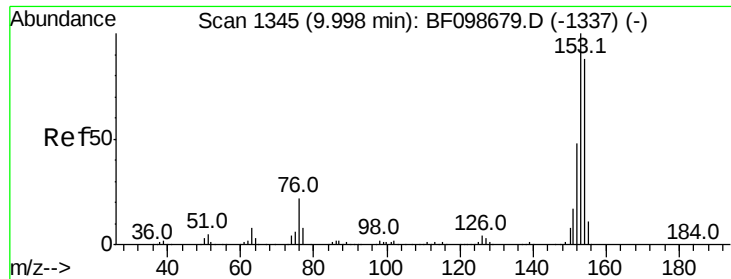


#44
 2-Fluorobiphenyl
 Concen: 4.685 ng
 RT: 9.28 min Scan# 1223
 Delta R.T. -0.01 min
 Lab File: BF098716.D
 Acq: 23 Sep 2017 00:35

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	29.7	44.5
170	23.0	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





#51

Acenaphthene

Concen: 10.116 ng

RT: 10.00 min Scan# 1345

Delta R.T. 0.00 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Instrument :

BNA_F

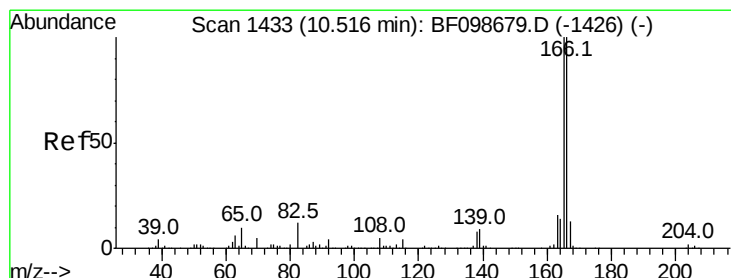
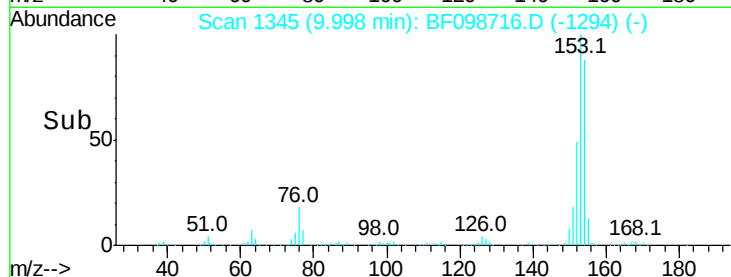
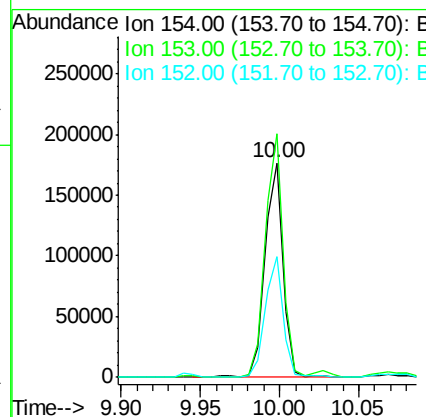
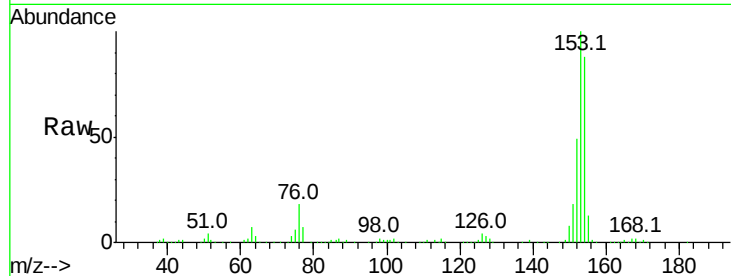
ClientSampleId :

SASP2P-ENV-118-6(5-10)

Tot Ion:	154	Resp:	141350
Ion	Ratio	Lower	Upper
154	100		
153	113.5	91.2	136.8
152	56.0	43.8	65.8

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#57

Fluorene

Concen: 4.522 ng

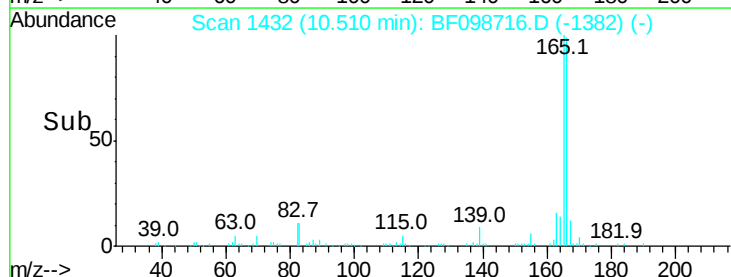
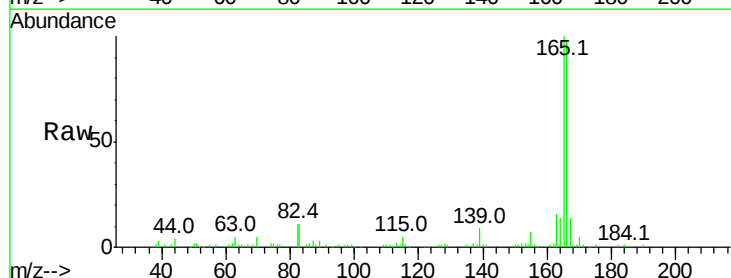
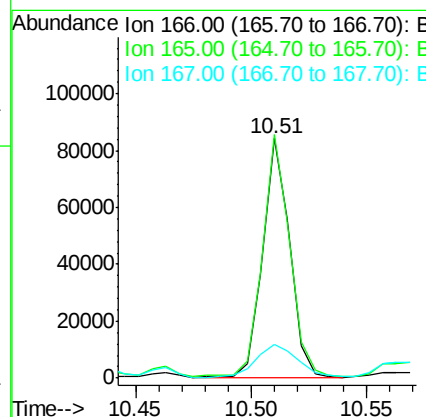
RT: 10.51 min Scan# 1432

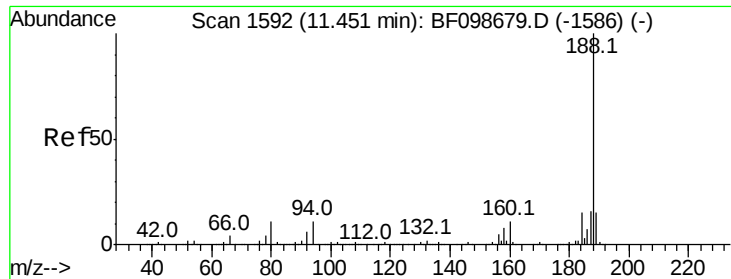
Delta R.T. -0.01 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Tgt Ion:	166	Resp:	69343
Ion	Ratio	Lower	Upper
166	100		
165	101.7	79.8	119.8
167	14.2	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.45 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Instrument :

BNA_F

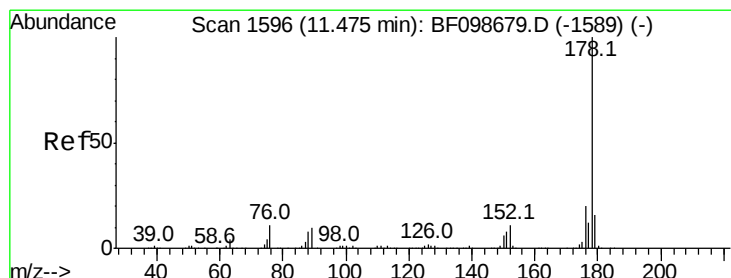
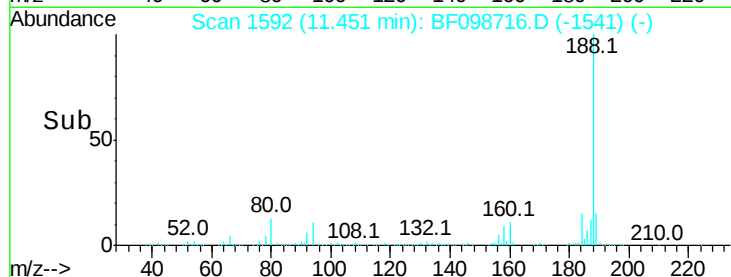
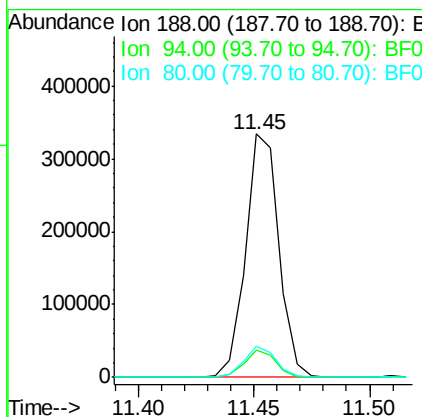
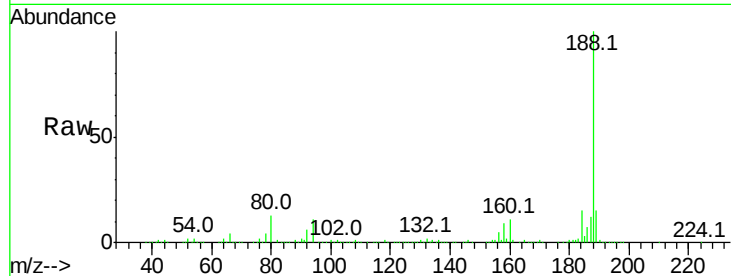
ClientSampleId :

SASP2P-ENV-118-6(5-10)

Tot Ion:	188	Resp:	335355
Ion Ratio	Lower	Upper	
188	100		
94	11.3	8.5	12.7
80	13.0	9.2	13.8

Manual Integrations
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#70

Phenanthrene

Concen: 107.172 ng

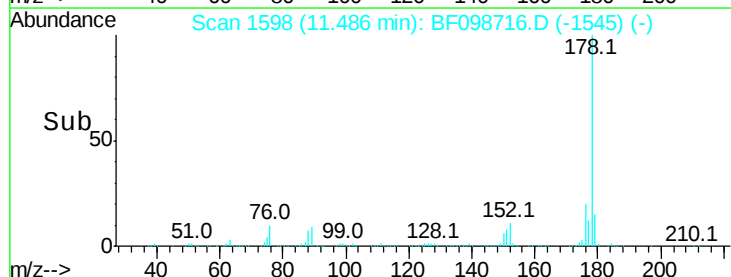
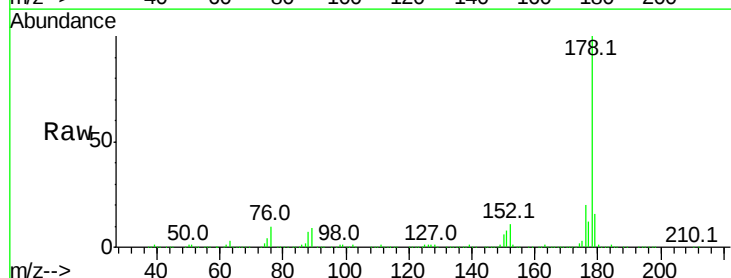
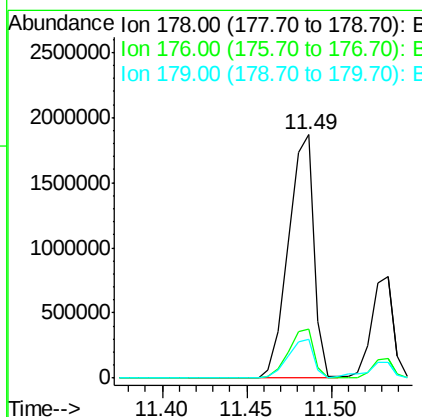
RT: 11.49 min Scan# 1598

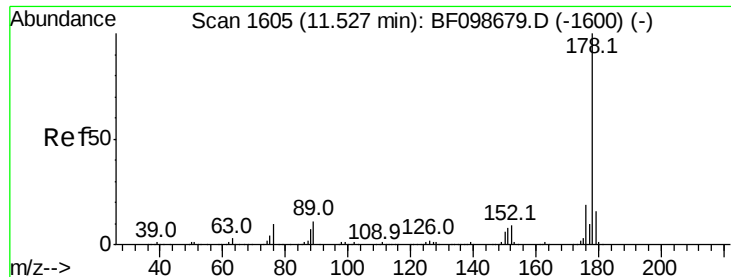
Delta R.T. 0.01 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Tgt Ion:	178	Resp:	1949695
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.8	23.8
179	15.7	13.0	19.6





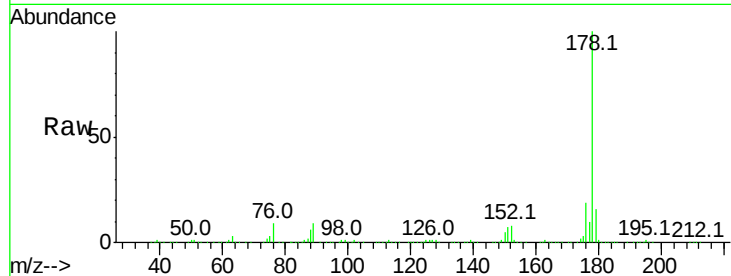
#71
 Anthracene
 Concen: 36.894 ng
 RT: 11.53 min Scan# 1606
 Delta R.T. 0.01 min
 Lab File: BF098716.D
 Acq: 23 Sep 2017 00:35

Instrument :
 BNA_F
 ClientSampleId :
 SASP2P-ENV-118-6(5-10)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.8	12.6	19.0

Manual Integrations
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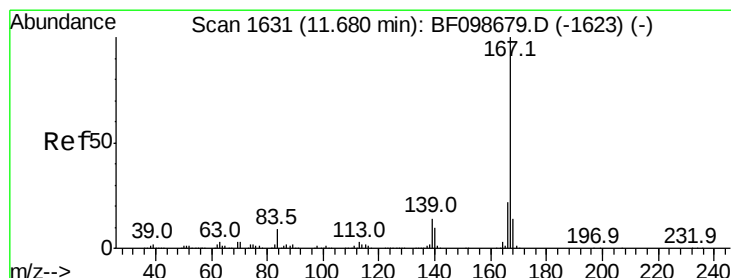
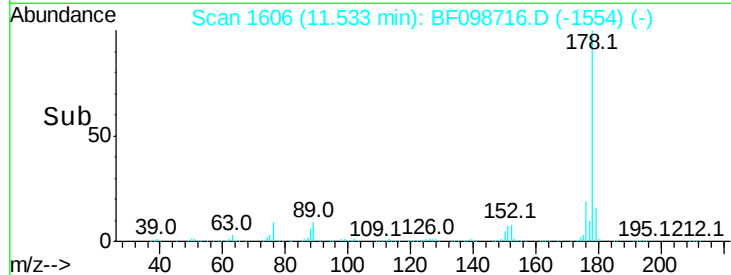
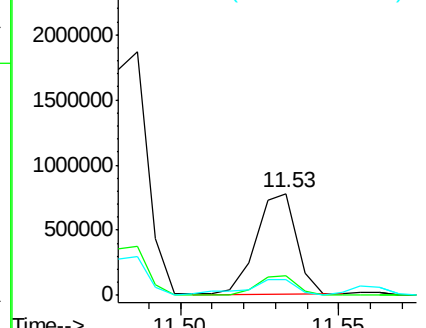


Abundance

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



#72
 Carbazole
 Concen: 13.218 ng
 RT: 11.68 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: BF098716.D
 Acq: 23 Sep 2017 00:35

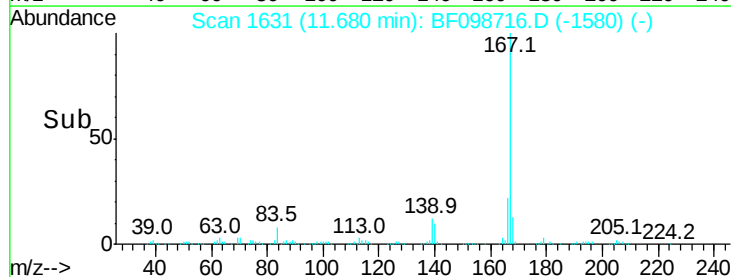
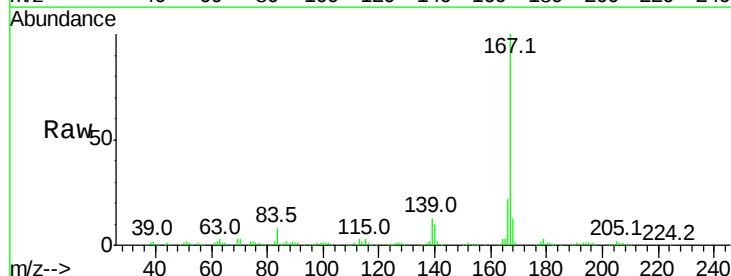
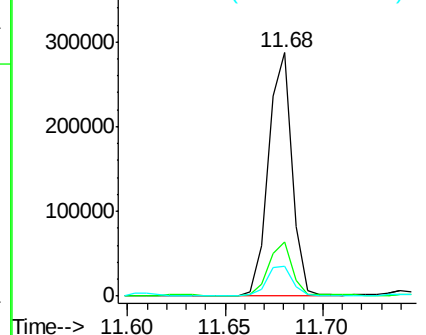
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.6	26.4
139	12.5	10.9	16.3

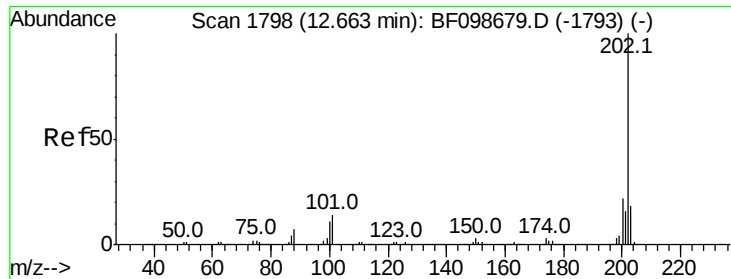
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 208.126 ng

RT: 12.69 min Scan# 1802

Delta R.T. 0.02 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Instrument :

BNA_F

ClientSampleId :

SASP2P-ENV-118-6(5-10)

Tot Ion:202 Resp: 3773322

Ion Ratio Lower Upper

202 100

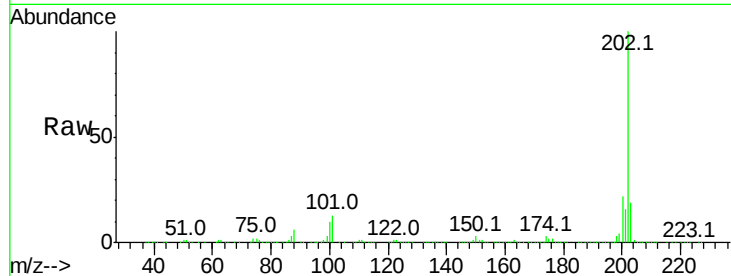
101 12.9 0.0 34.1

203 18.7 0.0 38.1

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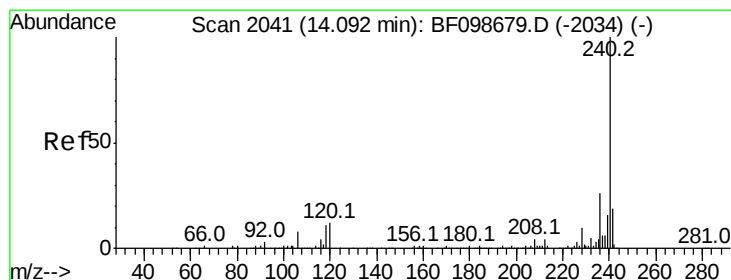
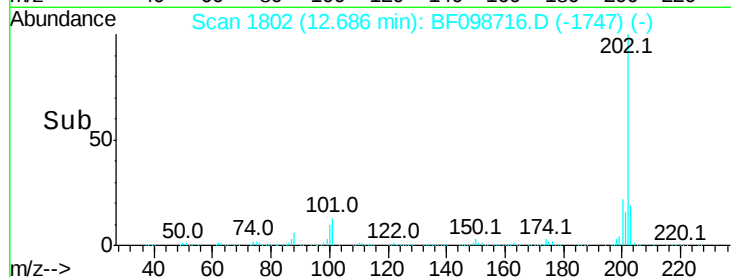
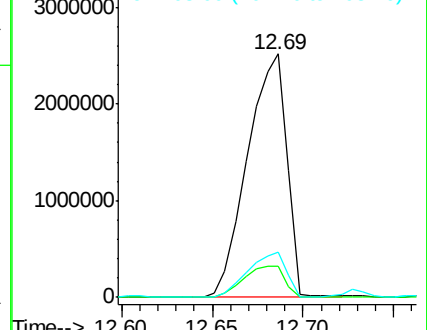
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Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.10 min Scan# 2043

Delta R.T. 0.01 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

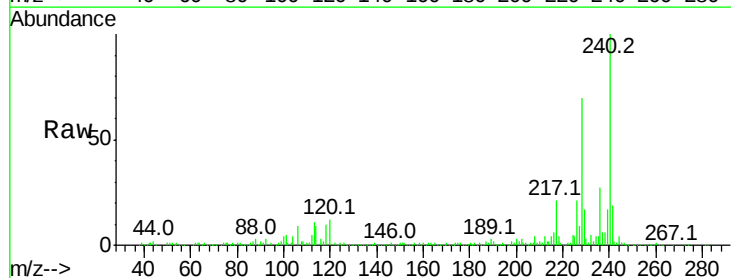
Tgt Ion:240 Resp: 283597

Ion Ratio Lower Upper

240 100

120 11.6 9.5 14.3

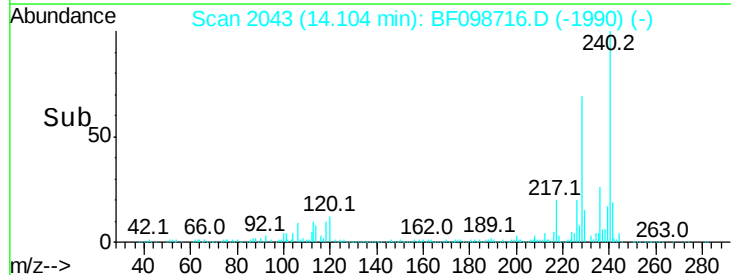
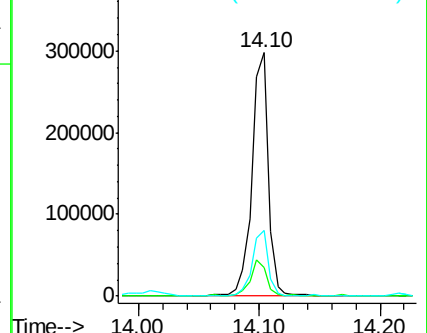
236 26.9 20.7 31.1

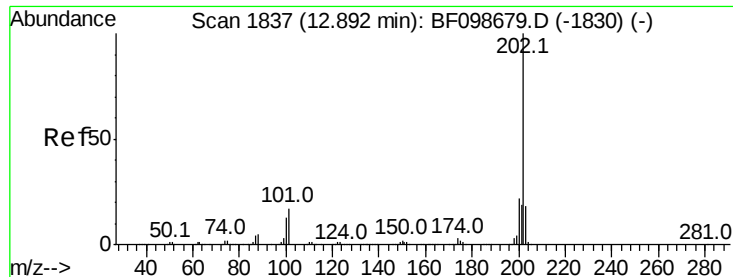


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 155.821 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.02 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Instrument :

BNA_F

ClientSampleId :

SASP2P-ENV-118-6(5-10)

Tot Ion:202 Resp: 3280749

Ion Ratio Lower Upper

202 100

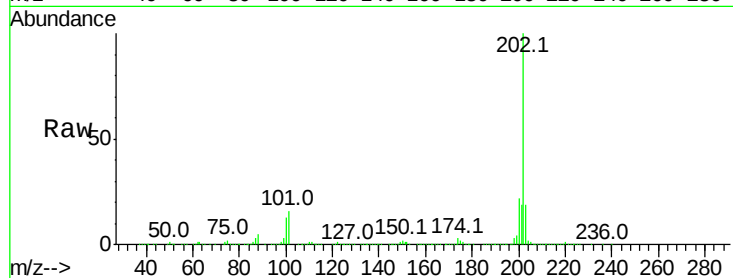
200 22.4 17.4 26.2

203 18.9 14.3 21.5

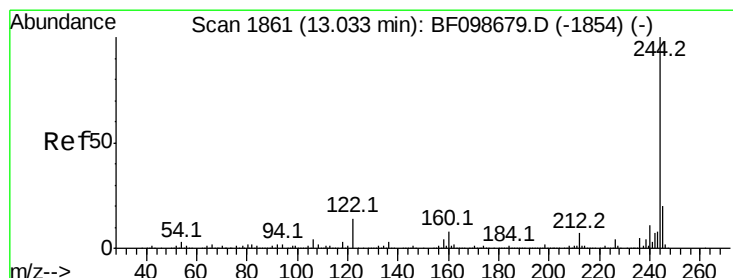
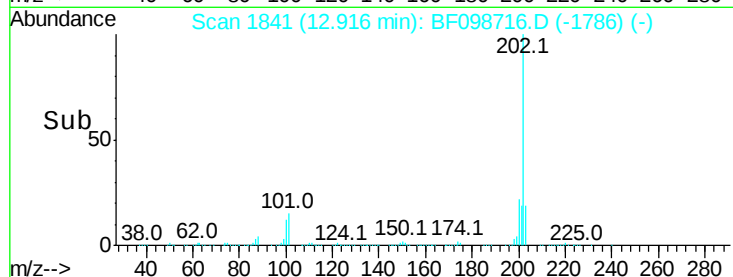
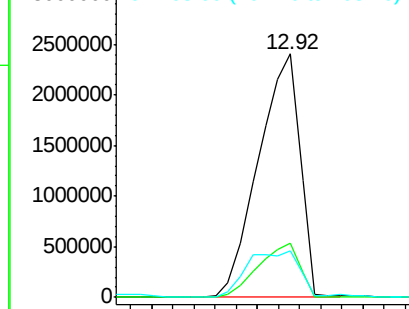
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 3.962 ng

RT: 13.03 min Scan# 1861

Delta R.T. 0.00 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

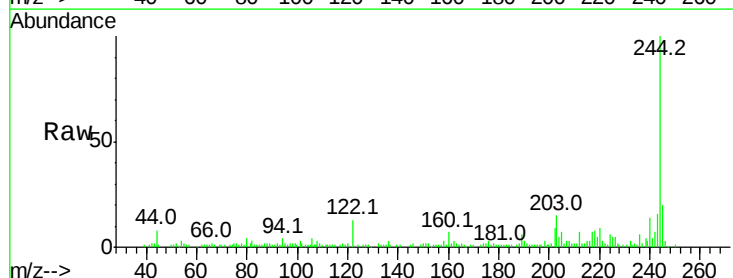
Tgt Ion:244 Resp: 52322

Ion Ratio Lower Upper

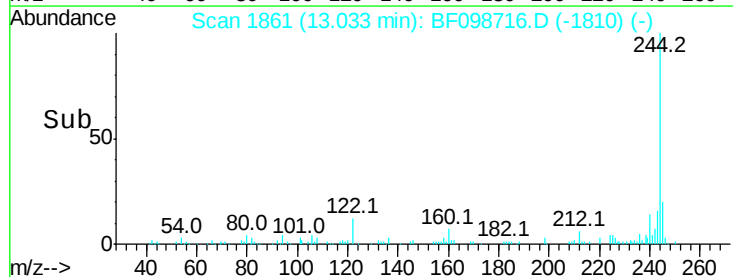
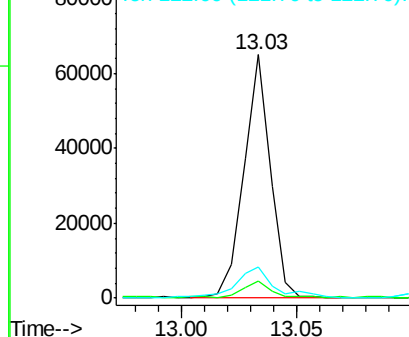
244 100

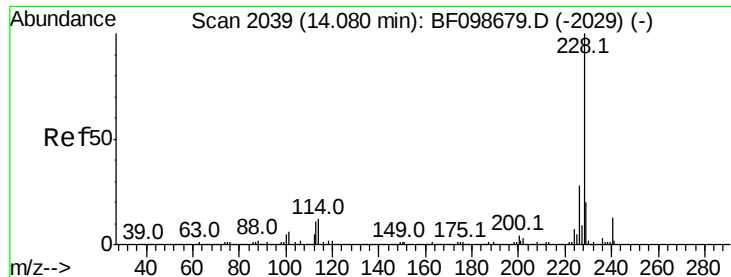
212 7.1 5.4 8.0

122 13.0 11.0 16.4



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





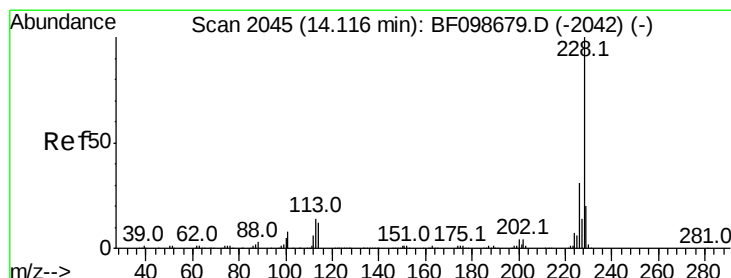
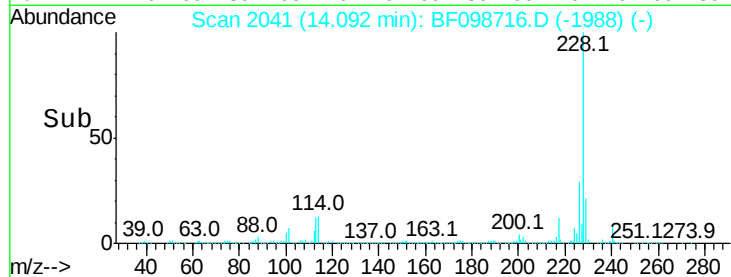
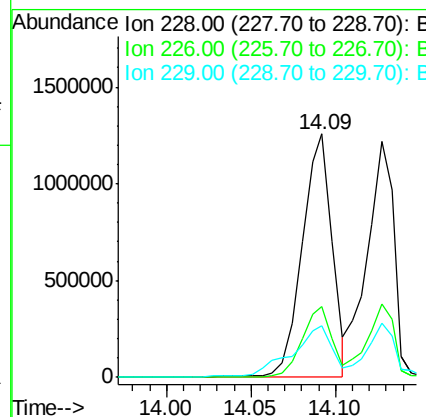
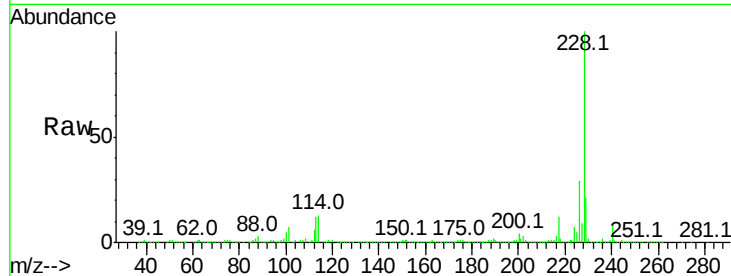
#80
Benzo(a)anthracene
Concen: 90.595 ng
RT: 14.09 min Scan# 2041
Delta R.T. 0.01 min
Lab File: BF098716.D
Acq: 23 Sep 2017 00:35

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-118-6(5-10)

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	21.1	15.8	23.6

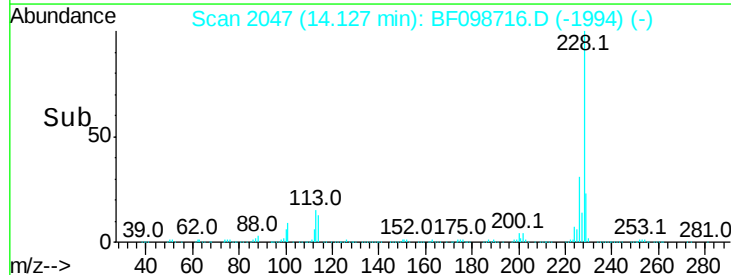
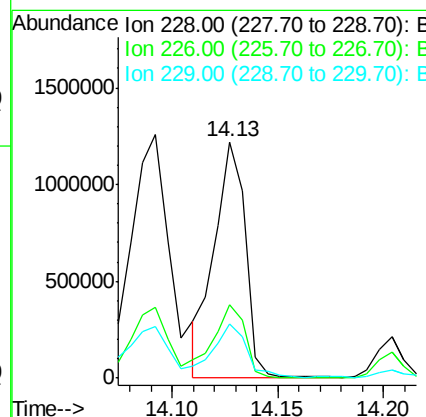
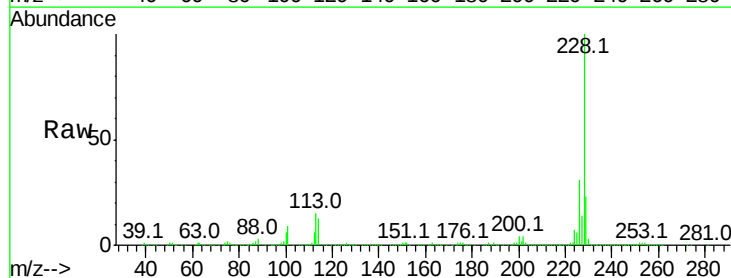
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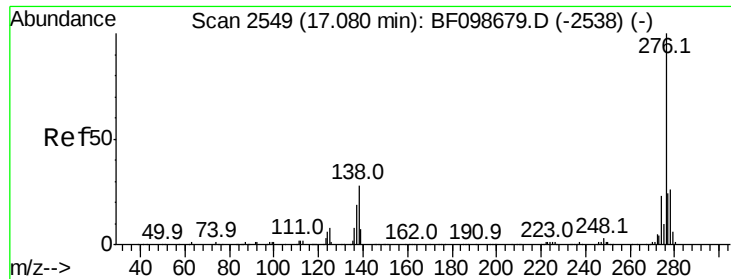
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#82
Chrysene
Concen: 75.793 ng
RT: 14.13 min Scan# 2047
Delta R.T. 0.01 min
Lab File: BF098716.D
Acq: 23 Sep 2017 00:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	22.7	16.2	24.4





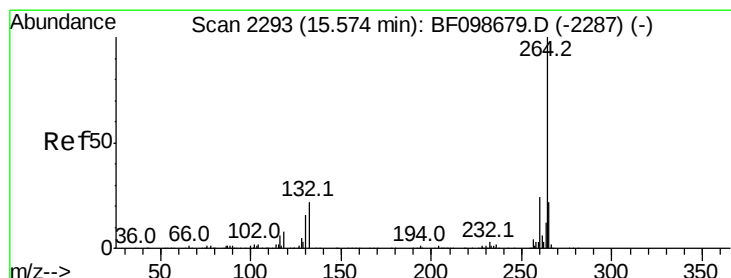
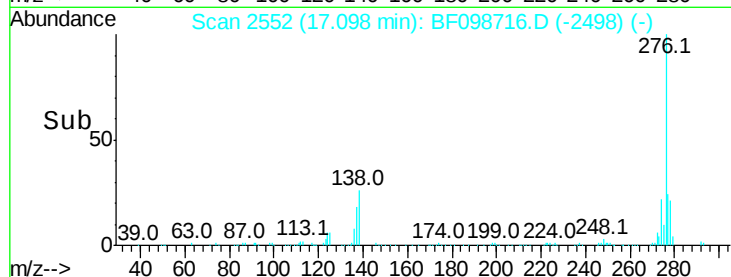
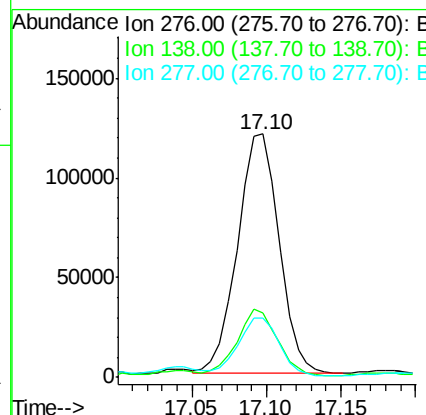
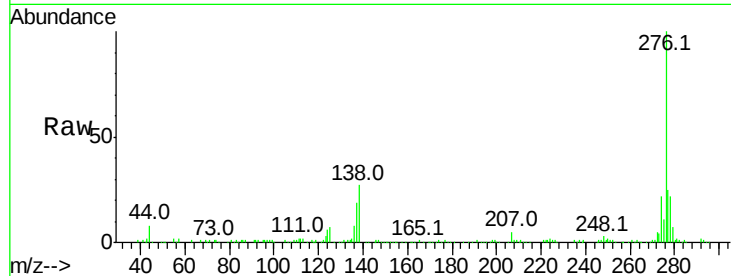
#85
Indeno(1,2,3-cd)pyrene
Concen: 18.221 ng
RT: 17.10 min Scan# 2552
Delta R.T. 0.02 min
Lab File: BF098716.D
Acq: 23 Sep 2017 00:35

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-118-6(5-10)

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.2	25.0	37.6
277	24.0	20.1	30.1

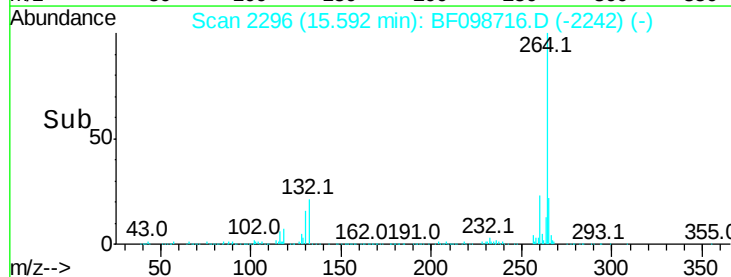
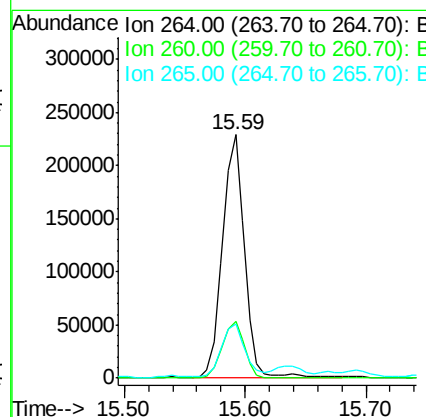
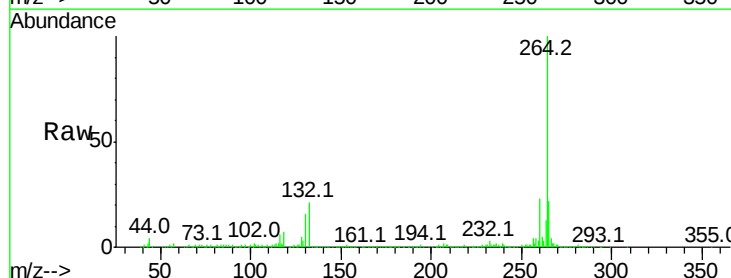
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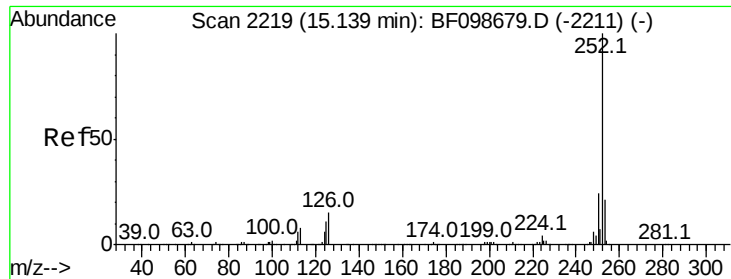
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.59 min Scan# 2296
Delta R.T. 0.02 min
Lab File: BF098716.D
Acq: 23 Sep 2017 00:35

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	22.1	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 65.986 ng m

RT: 15.16 min Scan# 2222

Delta R.T. 0.02 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

Instrument :

BNA_F

ClientSampleId :

SASP2P-ENV-118-6(5-10)

Tot Ion:252 Resp: 1089212

Ion Ratio Lower Upper

252 100

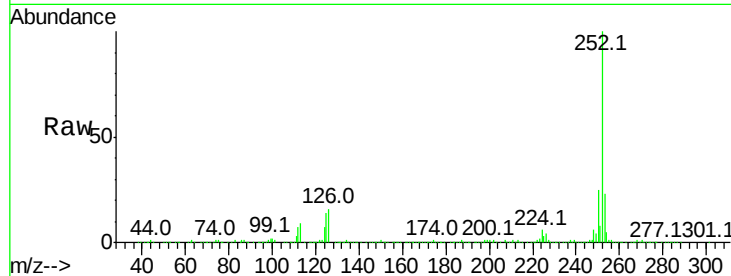
253 22.9 17.0 25.6

125 13.9 9.0 13.6#

Manual Integrations
APPROVED

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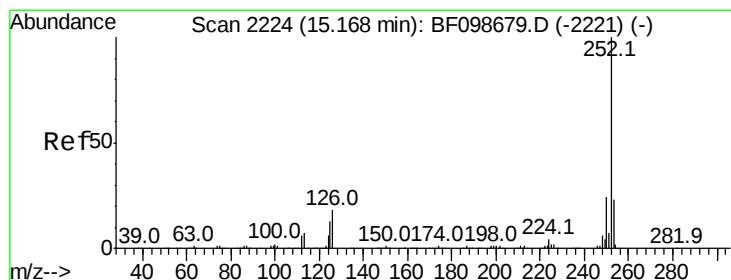
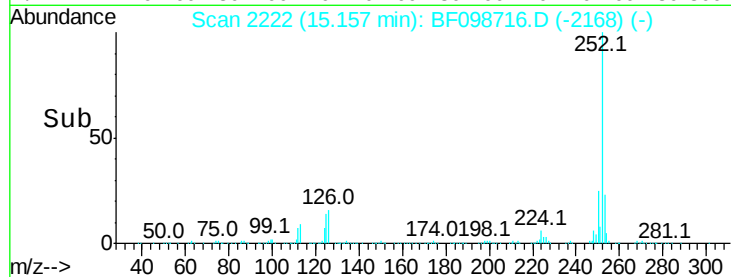
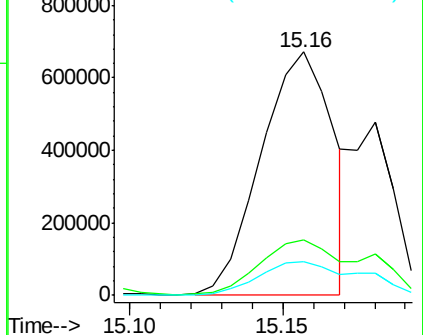
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 27.095 ng m

RT: 15.18 min Scan# 2226

Delta R.T. 0.01 min

Lab File: BF098716.D

Acq: 23 Sep 2017 00:35

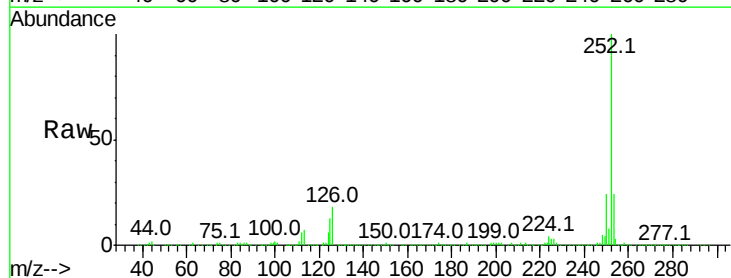
Tgt Ion:252 Resp: 446941

Ion Ratio Lower Upper

252 100

253 23.7 17.9 26.9

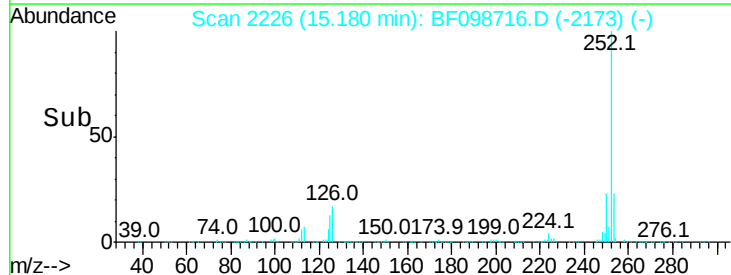
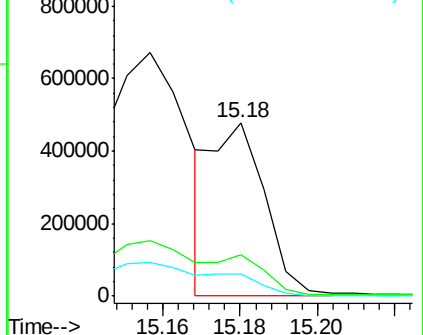
125 12.9 10.2 15.2

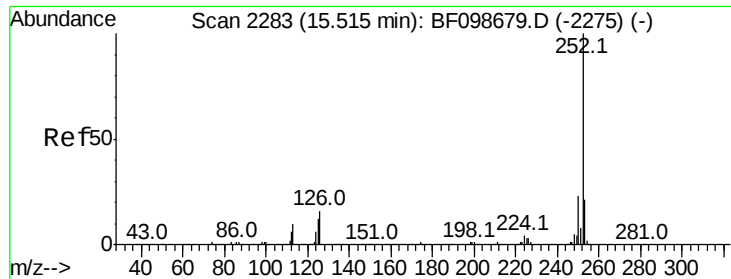


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





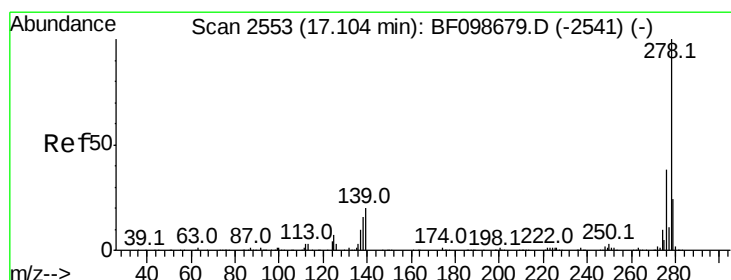
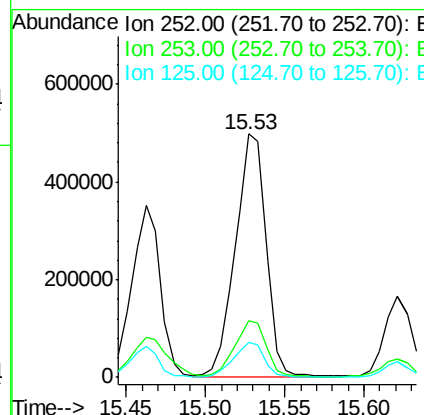
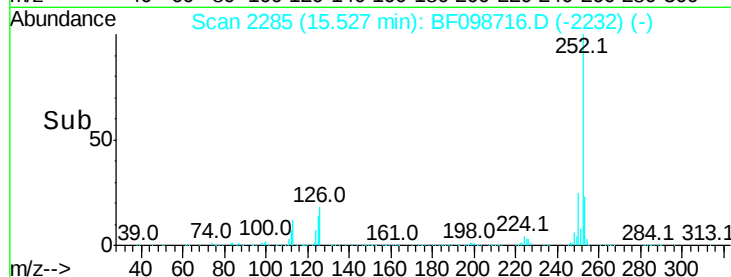
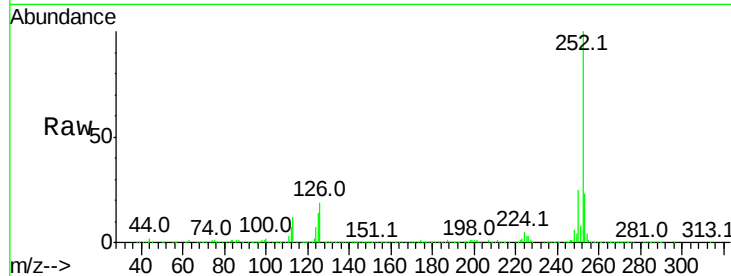
#89
Benzo(a)pyrene
Concen: 44.472 ng
RT: 15.53 min Scan# 2285
Delta R.T. 0.01 min
Lab File: BF098716.D
Acq: 23 Sep 2017 00:35

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-118-6(5-10)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	14.1	9.8	14.6

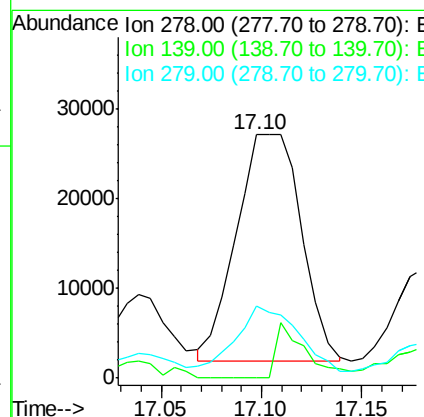
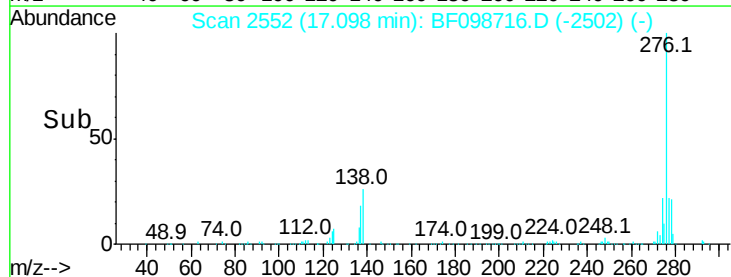
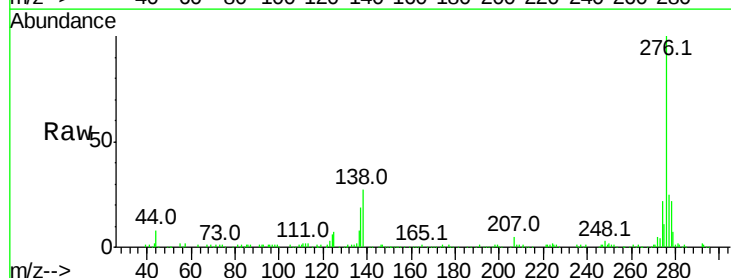
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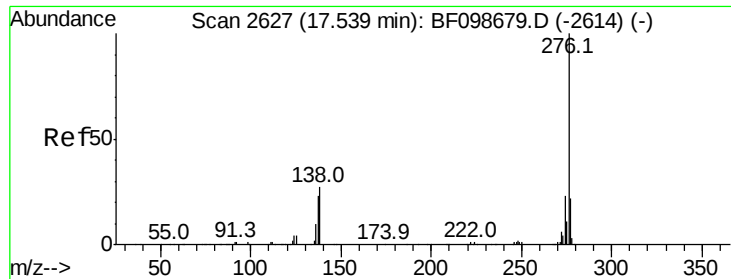
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 4.444 ng m
RT: 17.10 min Scan# 2552
Delta R.T. -0.01 min
Lab File: BF098716.D
Acq: 23 Sep 2017 00:35

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	29.8	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 15.263 ng
 RT: 17.55 min Scan# 2629
 Delta R.T. 0.01 min
 Lab File: BF098716.D
 Acq: 23 Sep 2017 00:35

Instrument :
 BNA_F
 ClientSampleId :
 SASP2P-ENV-118-6(5-10)

Tot Ion:	276	Resp:	194514
Ion Ratio		Lower	Upper
276	100		
277	22.5	17.9	26.9
138	26.9	21.8	32.8

Manual Integrations
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