

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100217\
 Data File : BF099005.D
 Acq On : 2 Oct 2017 17:48
 Operator : SJ/JU
 Sample : I5534-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SASP2P-ENV-114-1(0-5)

Manual Integrations
 APPROVED

Sohil
 10/3/2017 6:50:43 PM

Quant Time: Oct 03 01:20:22 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	140123	20.00	ng	-0.02
21) Naphthalene-d8	8.18	136	555029	20.00	ng	-0.02
38) Acenaphthene-d10	9.94	164	232108	20.00	ng	-0.02
63) Phenanthrene-d10	11.43	188	353260	20.00	ng	-0.02
75) Chrysene-d12	14.07	240	248405	20.00	ng	-0.02
86) Perylene-d12	15.56	264	264488	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	918810	104.38	ng	-0.01
7) Phenol-d6	6.53	99	1144462	105.40	ng	-0.02
23) Nitrobenzene-d5	7.46	82	710452	82.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	177283	93.34	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	1169980	84.15	ng	-0.02
78) Terphenyl-d14	13.01	244	754762	69.10	ng	-0.02
Target Compounds						
31) Naphthalene	8.20	128	86202	3.307	ng	99
49) Dimethylphthalate	9.65	163	232129	13.251	ng	99
51) Acenaphthene	9.97	154	69849	4.809	ng	98
54) Dibenzofuran	10.15	168	83877	4.337	ng	98
57) Fluorene	10.49	166	57243	3.683	ng	99
70) Phenanthrene	11.46	178	929529	49.158	ng	99
71) Anthracene	11.50	178	204347	10.562	ng	98
72) Carbazole	11.66	167	133016	7.021	ng	99
74) Fluoranthene	12.64	202	933765	48.767	ng	100
77) Pyrene	12.87	202	827711	43.698	ng	99
80) Benzo(a)anthracene	14.06	228	399558	26.564	ng	99
82) Chrysene	14.10	228	342448	23.914	ng	98
85) Indeno(1,2,3-cd)pyrene	17.07	276	198242	17.306	ng	97
87) Benzo(b)fluoranthene	15.12	252	469405m	28.865	ng	
88) Benzo(k)fluoranthene	15.14	252	160355m	9.984	ng	
89) Benzo(a)pyrene	15.50	252	307349	20.590	ng	# 94
90) Dibenzo(a,h)anthracene	17.07	278	49778	4.167	ng	# 94
91) Benzo(g,h,i)perylene	17.53	276	192392	16.293	ng	95

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

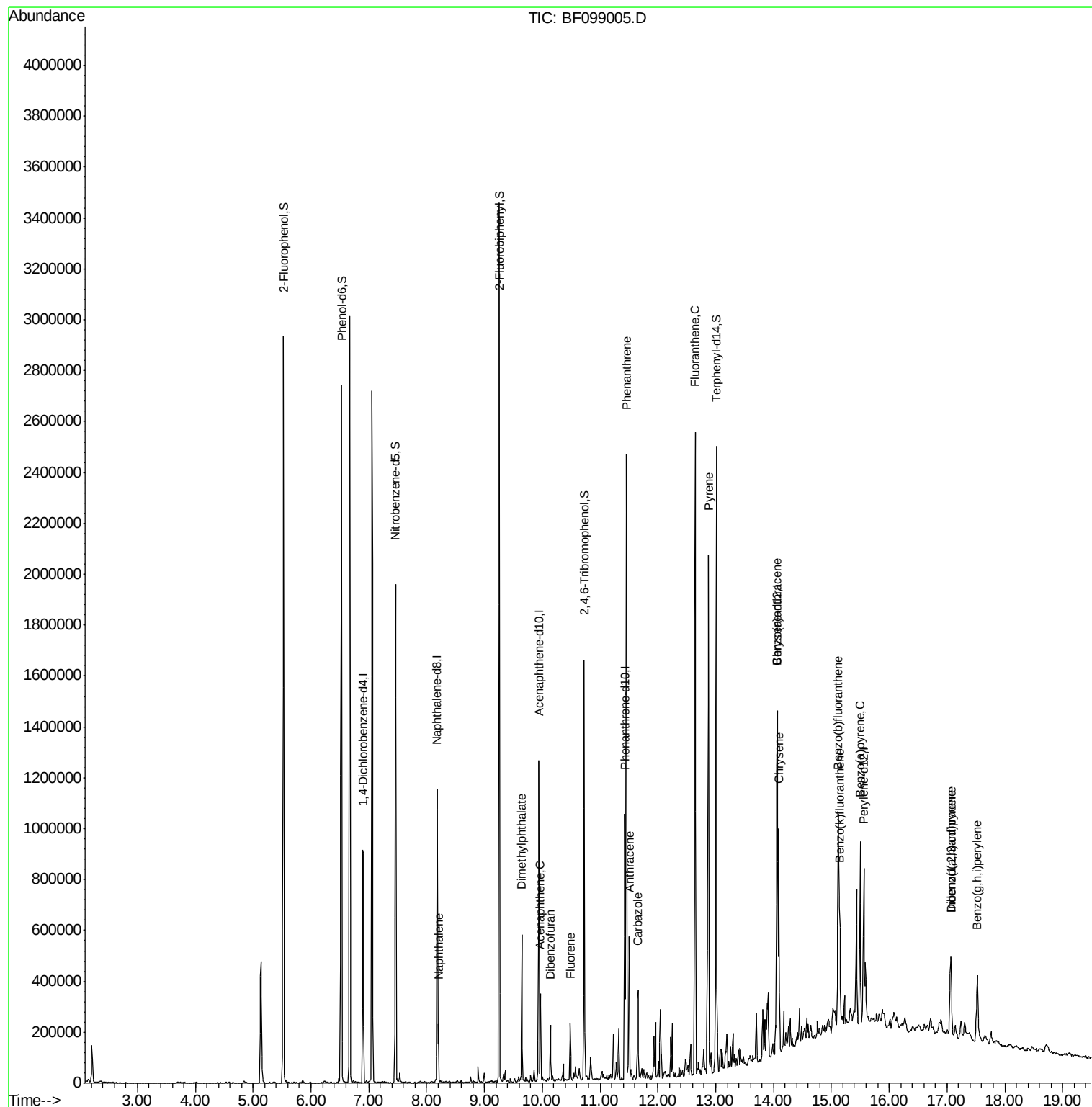
Data Path : Z:\HPCHEM1\BNA F\DATA\BF100217\
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Misc :
ALS Vial : 9 Sample Multiplier: 1

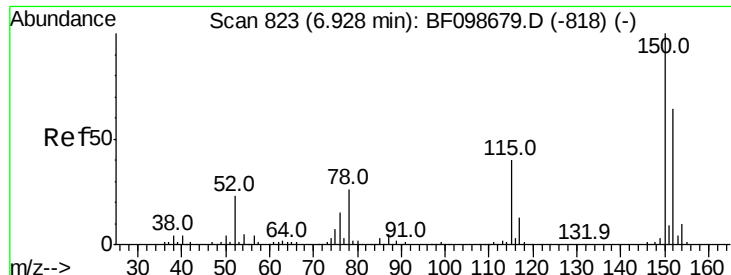
Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

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#1

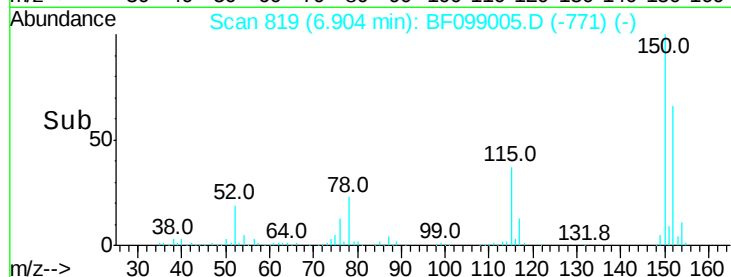
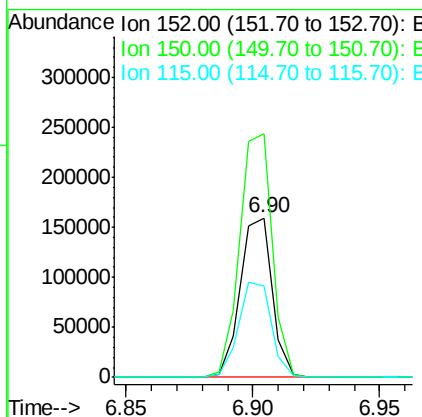
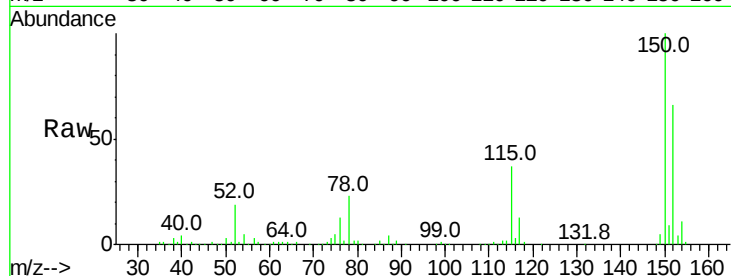
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.90 min Scan# 819
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	124.6	186.8
115	57.2	50.1	75.1

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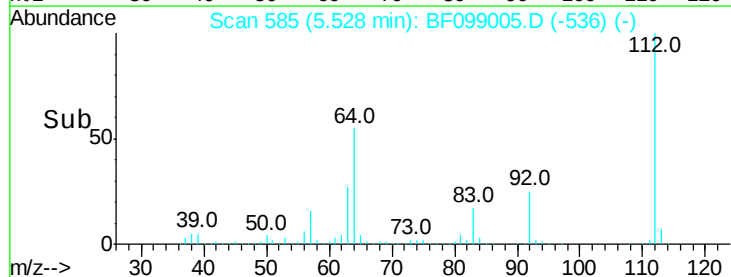
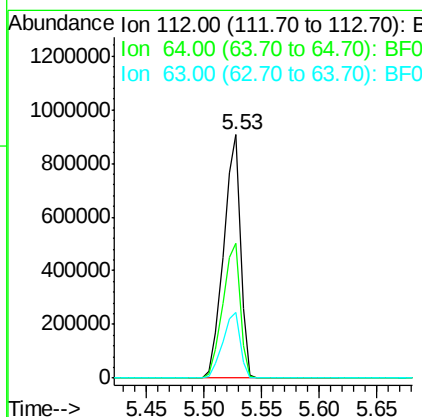
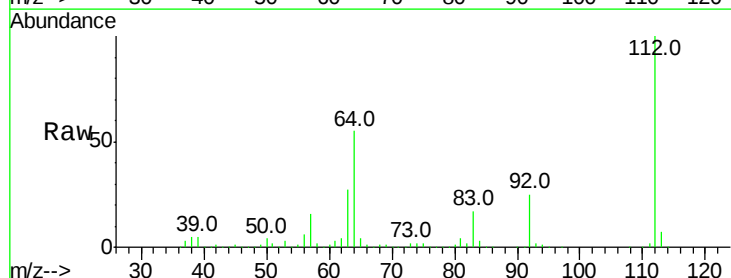
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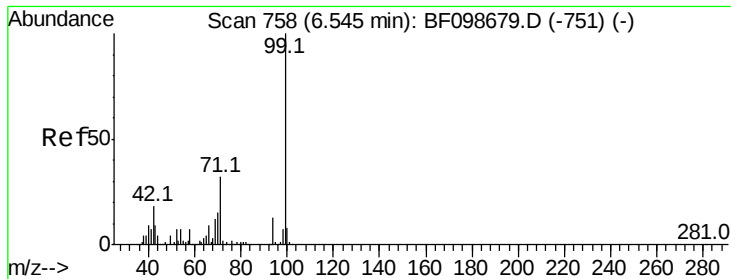


#5

2-Fluorophenol
Concen: 104.384 ng
RT: 5.53 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.5	47.9	71.9
63	27.2	23.7	35.5





#7

Phenol-d6

Concen: 105.397 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Instrument :

BNA_F

ClientSampleId :

SASP2P-ENV-114-1(0-5)

Tot Ion: 99 Resp: 1144462

Ion Ratio Lower Upper

99 100

42 16.5 14.5 21.7

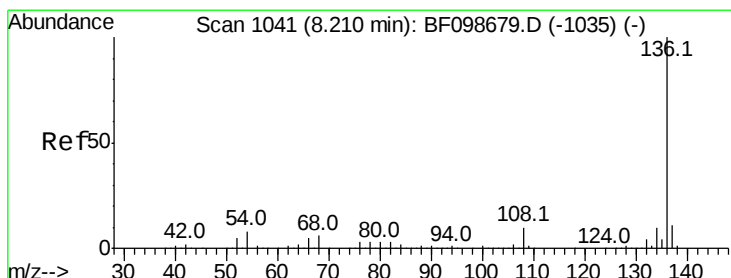
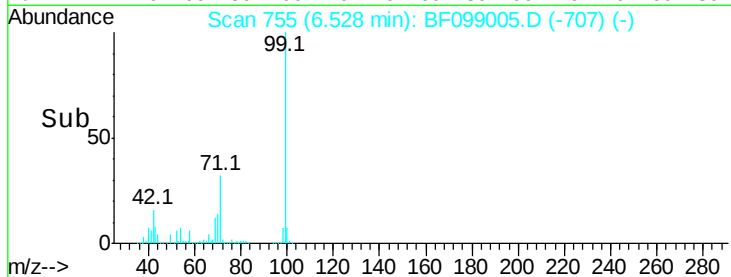
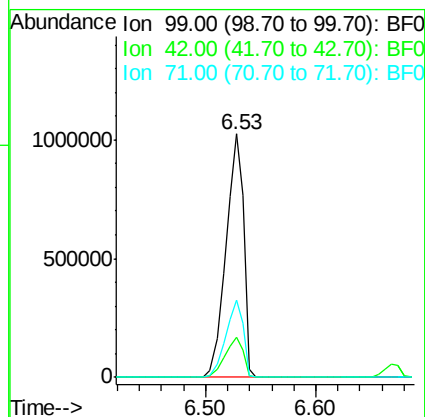
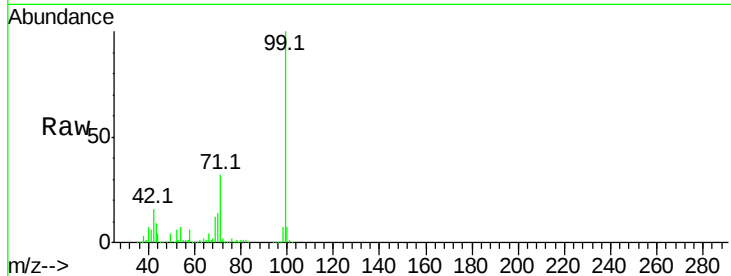
71 31.7 25.4 38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.18 min Scan# 1036

Delta R.T. -0.02 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Tgt Ion: 136 Resp: 555029

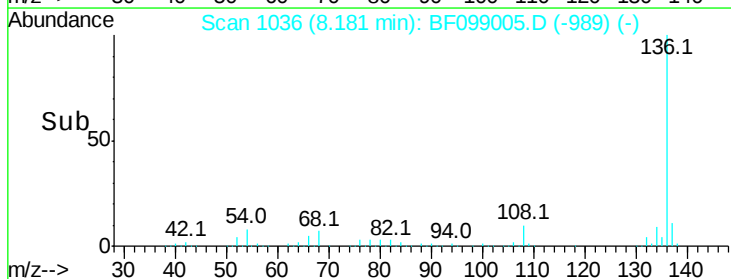
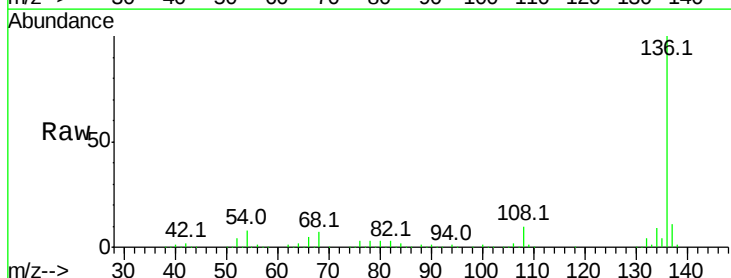
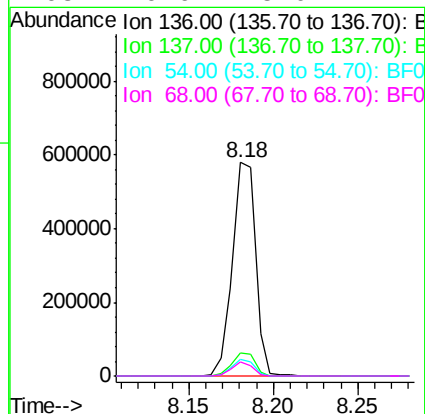
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.1 6.6 9.8

68 6.6 5.0 7.4





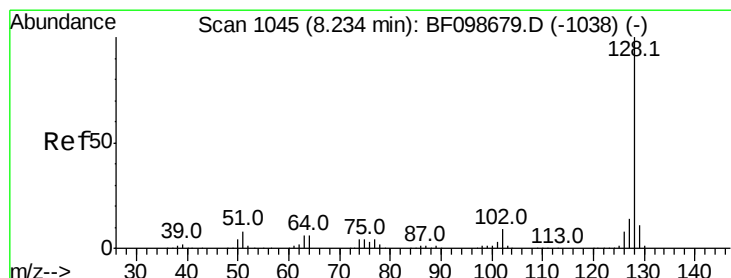
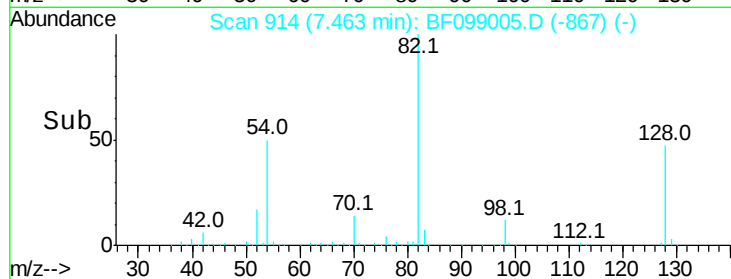
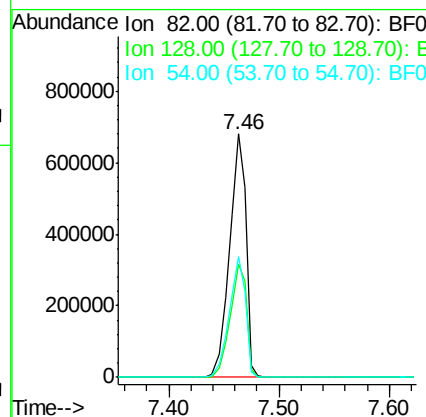
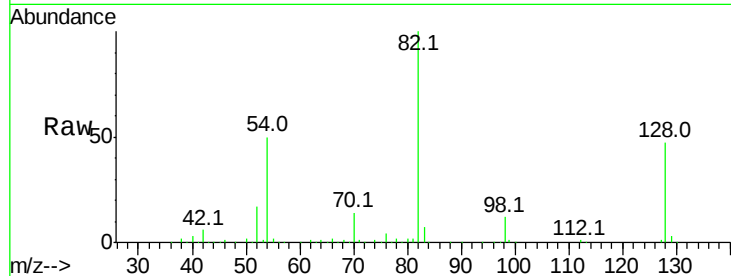
#23
Nitrobenzene-d5
Concen: 82.088 ng
RT: 7.46 min Scan# 914
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.5	36.1	54.1
54	49.5	41.4	62.2

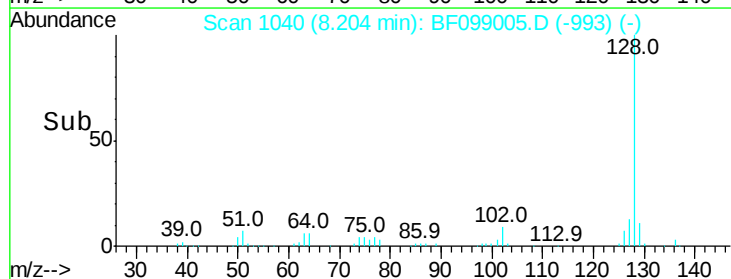
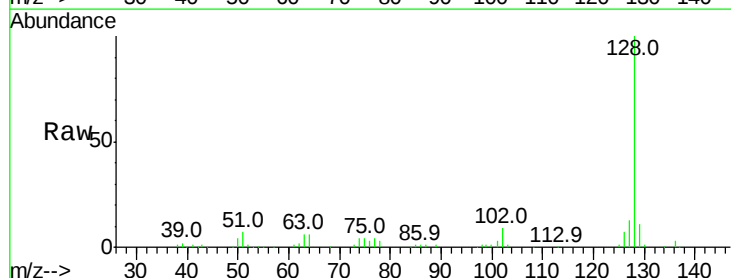
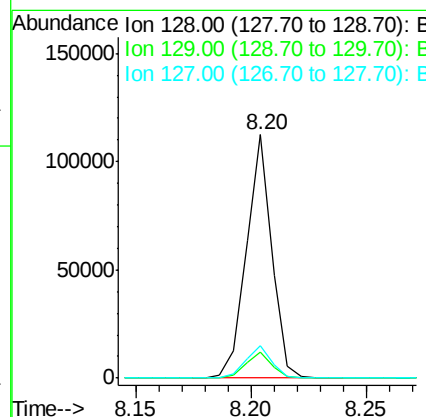
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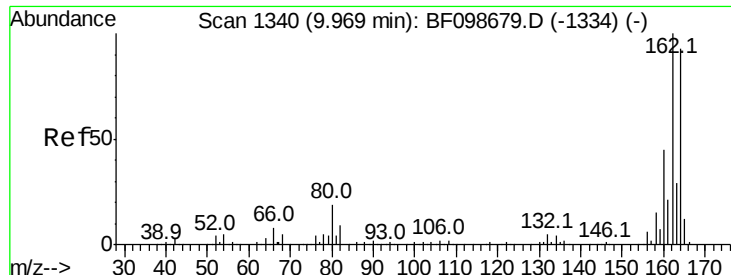
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#31
Naphthalene
Concen: 3.307 ng
RT: 8.20 min Scan# 1040
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	13.1	10.9	16.3





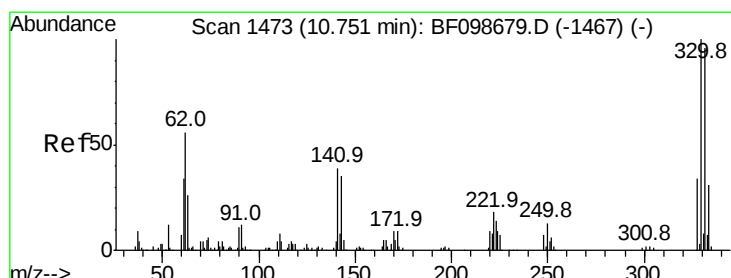
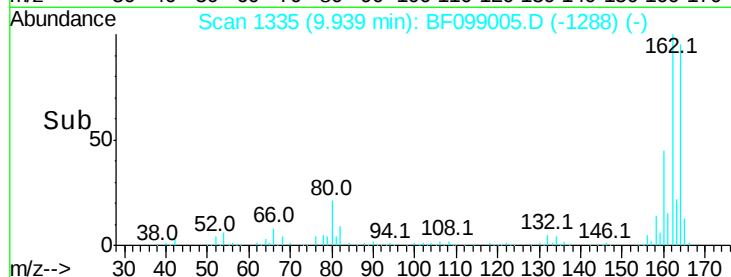
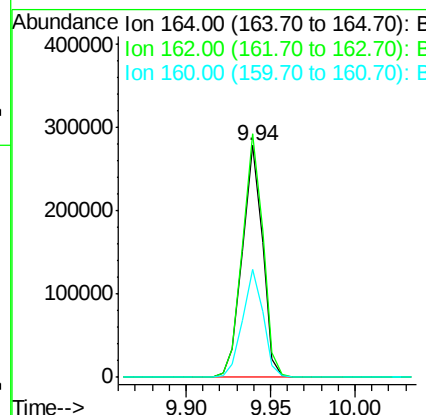
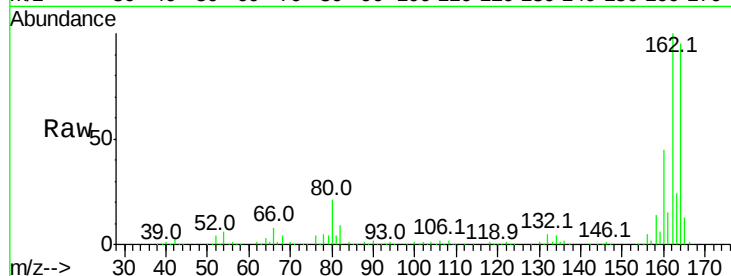
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.94 min Scan# 1335
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
164	100	232108		
162	104.9	86.1	129.1	
160	46.7	38.3	57.5	

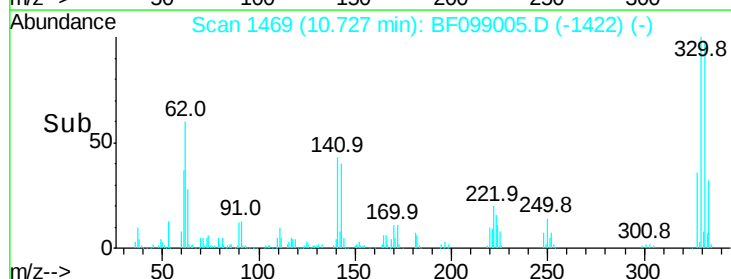
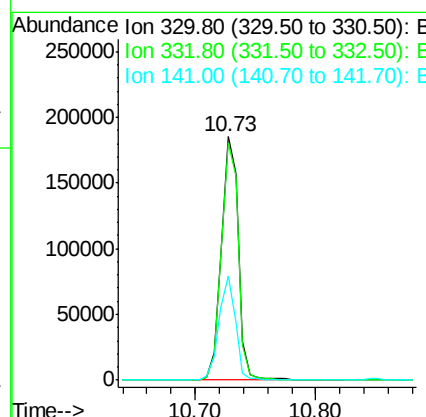
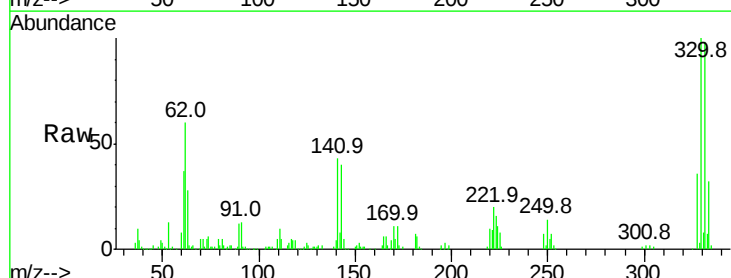
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#41
2,4,6-Tribromophenol
Concen: 93.343 ng
RT: 10.73 min Scan# 1469
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	177283		
332	97.4	77.0	115.6	
141	41.7	29.9	44.9	





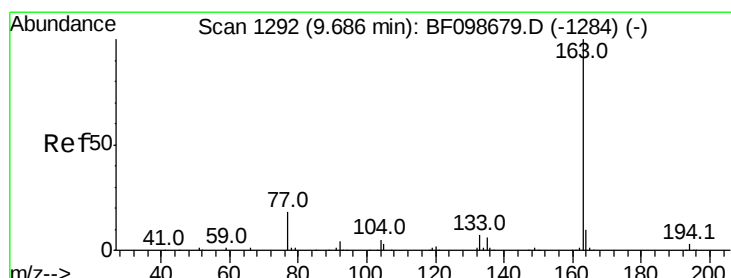
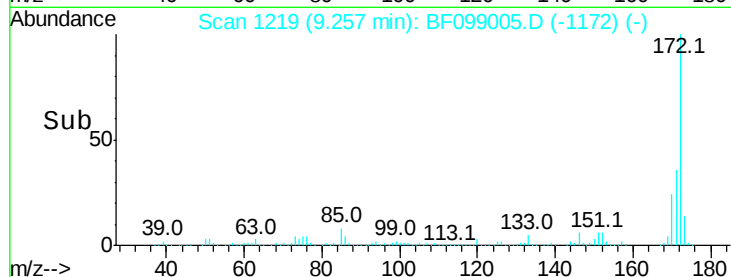
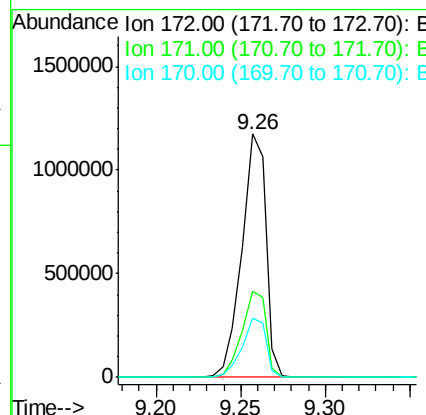
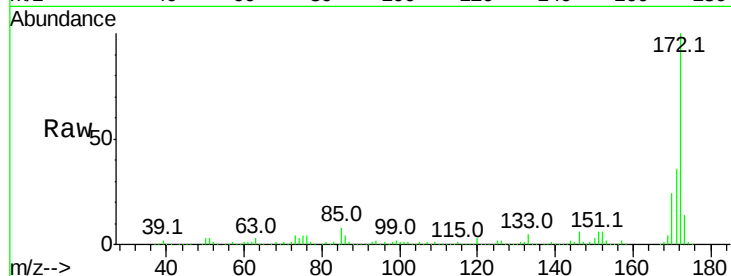
#44
2-Fluorobiphenyl
Concen: 84.150 ng
RT: 9.26 min Scan# 1219
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.7	44.5
170	24.2	19.6	29.4

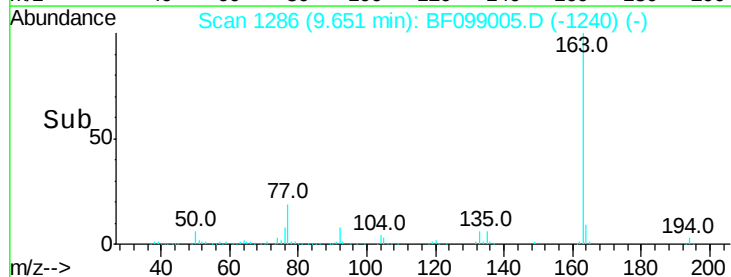
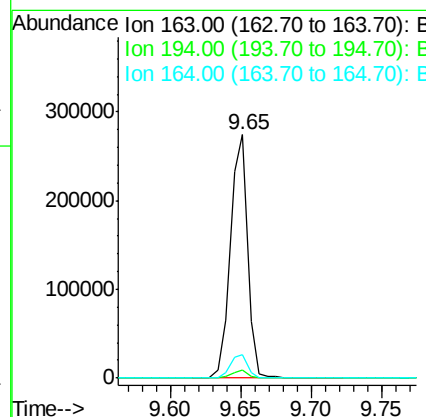
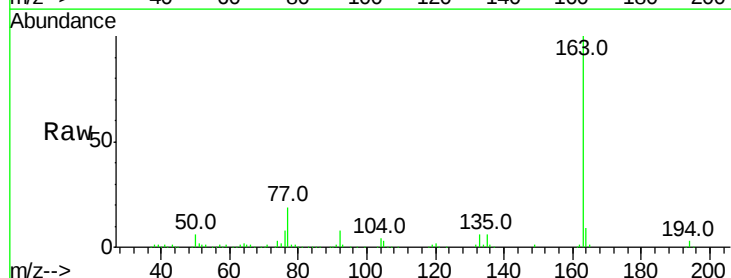
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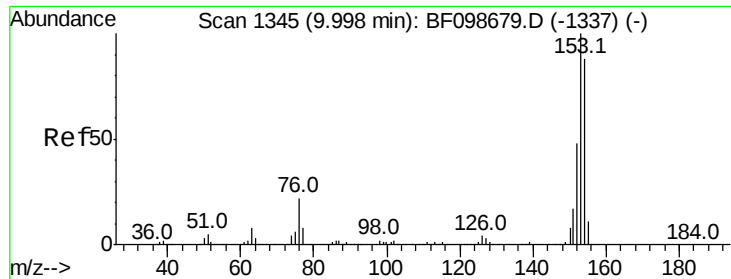
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#49
Dimethylphthalate
Concen: 13.251 ng
RT: 9.65 min Scan# 1286
Delta R.T. -0.03 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.7	4.1
164	9.5	8.2	12.2





#51

Acenaphthene

Concen: 4.809 ng

RT: 9.97 min Scan# 1340

Delta R.T. -0.03 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Instrument :

BNA_F

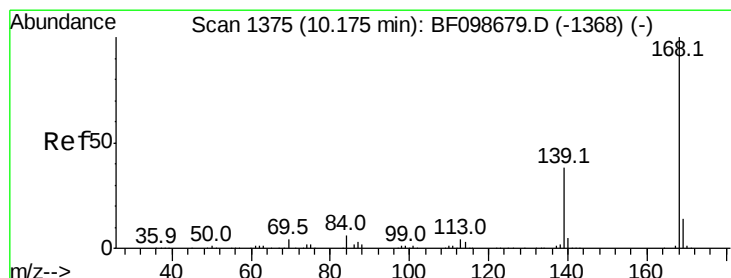
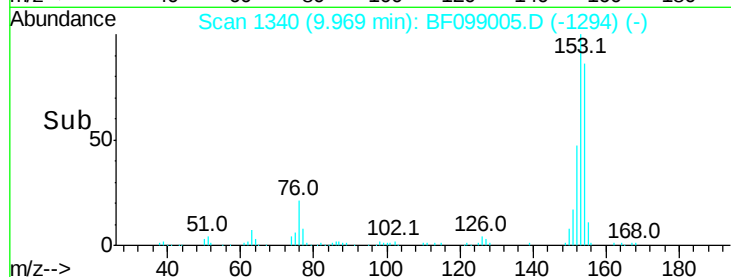
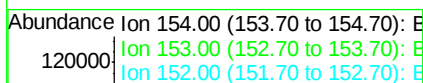
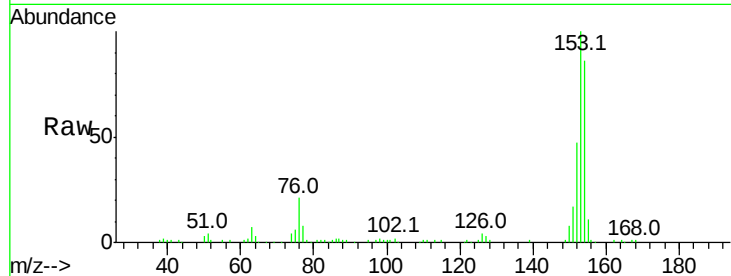
ClientSampleId :

SASP2P-ENV-114-1(0-5)

Tot Ion:	154	Resp:	69849
Ion Ratio	Lower	Upper	
154	100		
153	116.2	91.2	136.8
152	55.2	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 4.337 ng

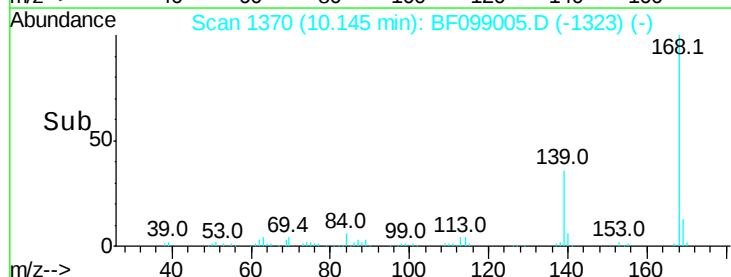
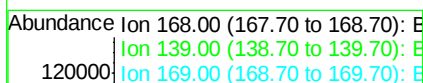
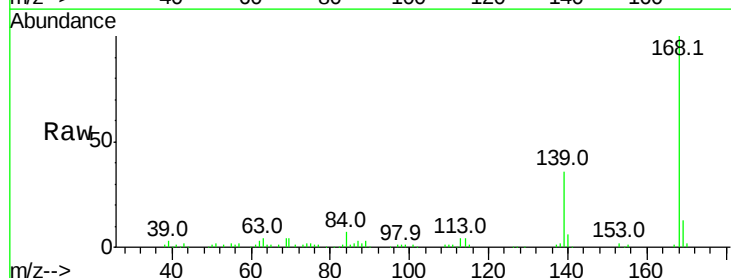
RT: 10.15 min Scan# 1370

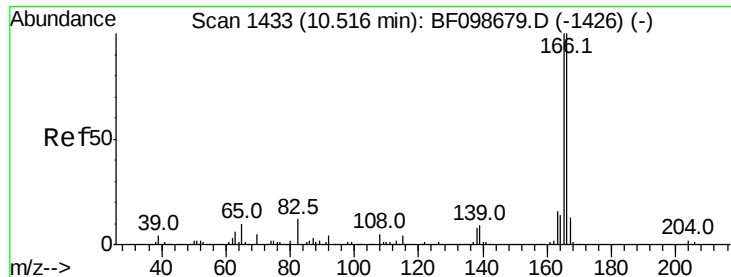
Delta R.T. -0.02 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Tgt Ion:	168	Resp:	83877
Ion Ratio	Lower	Upper	
168	100		
139	36.3	30.1	45.1
169	12.9	10.9	16.3





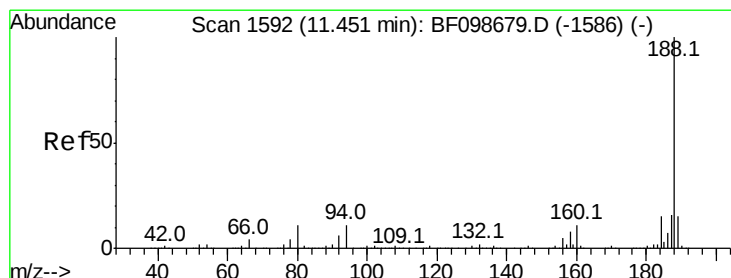
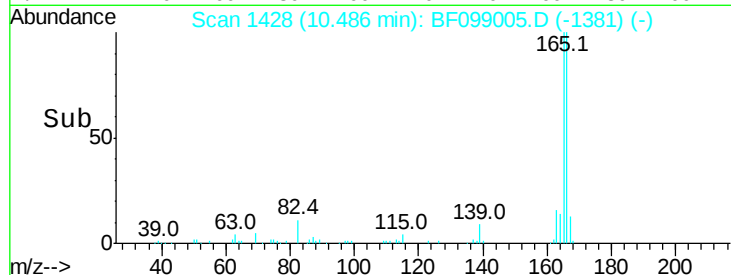
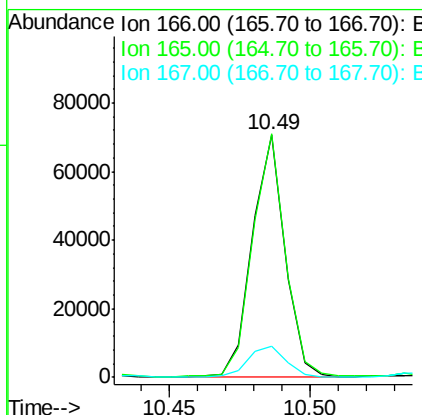
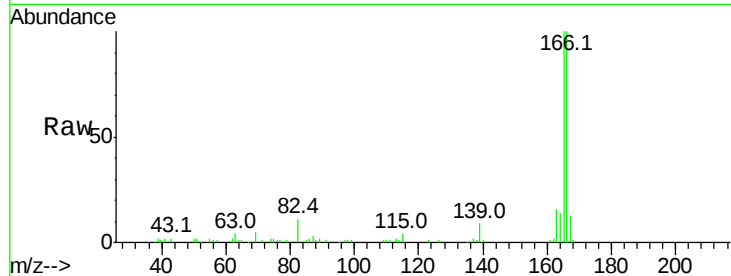
#57
Fluorene
 Concen: 3.683 ng
 RT: 10.49 min Scan# 1428
 Delta R.T. -0.02 min
 Lab File: BF099005.D
 Acq: 2 Oct 2017 17:48

Instrument :
 BNA_F
 ClientSampleId :
 SASP2P-ENV-114-1(0-5)

Tot Ion:166 Resp: 57243
 Ion Ratio Lower Upper
 166 100
 165 100.4 79.8 119.8
 167 13.0 10.6 16.0

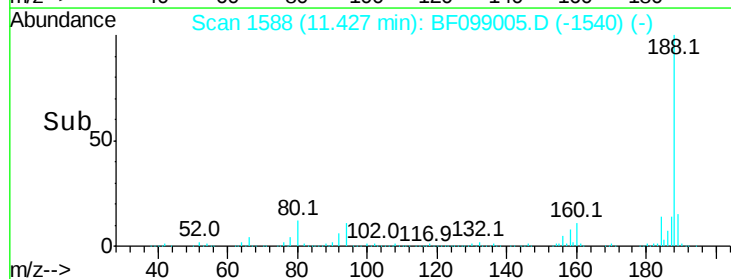
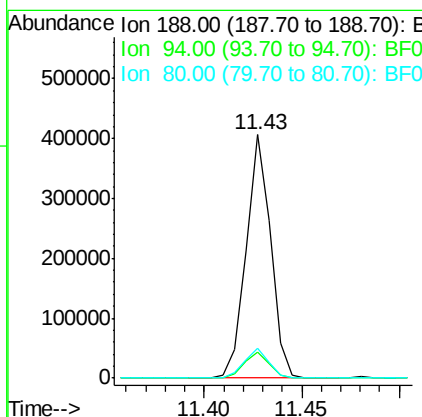
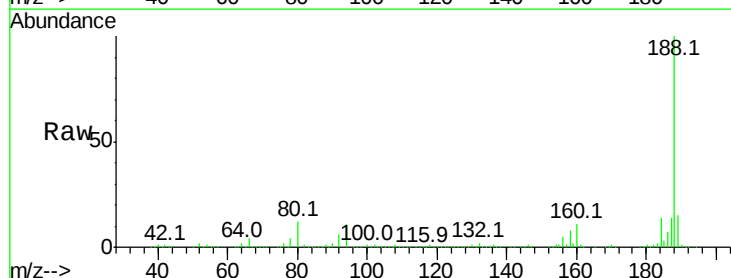
Manual Integrations
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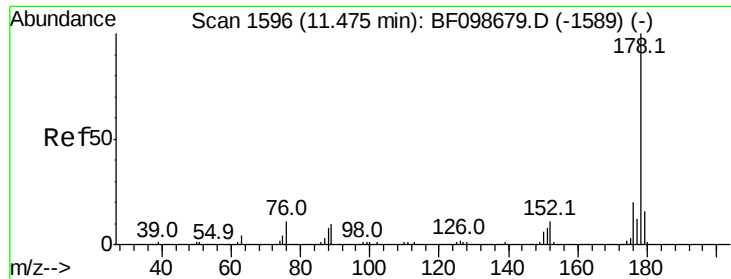
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. -0.02 min
 Lab File: BF099005.D
 Acq: 2 Oct 2017 17:48

Tgt Ion:188 Resp: 353260
 Ion Ratio Lower Upper
 188 100
 94 10.7 8.5 12.7
 80 12.1 9.2 13.8





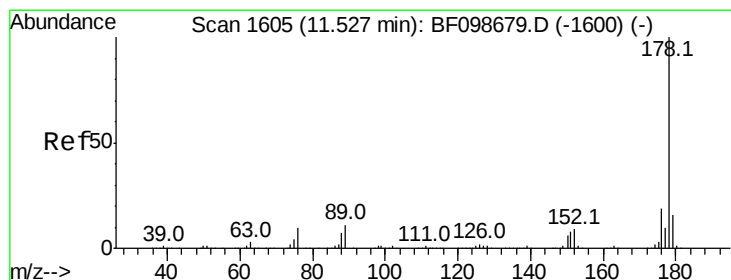
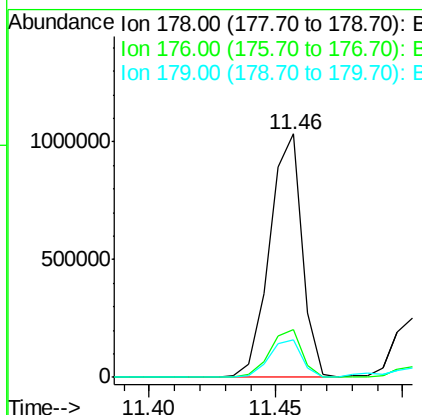
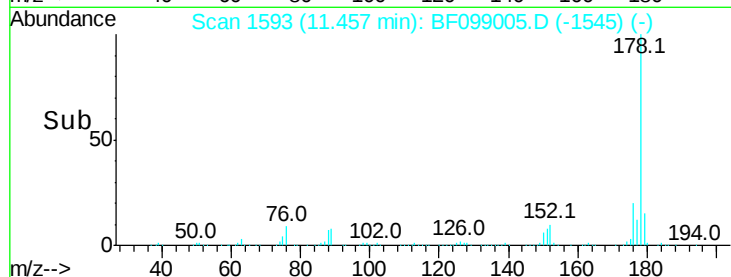
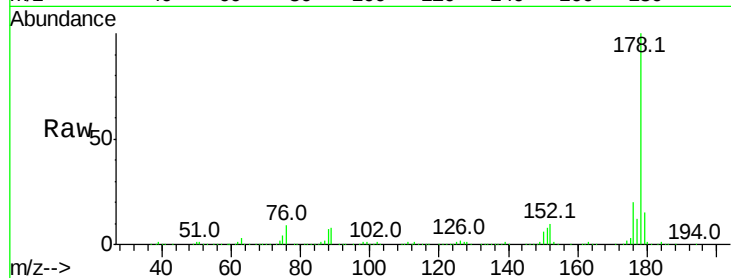
#70
Phenanthrene
Concen: 49.158 ng
RT: 11.46 min Scan# 1593
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.5	13.0	19.6

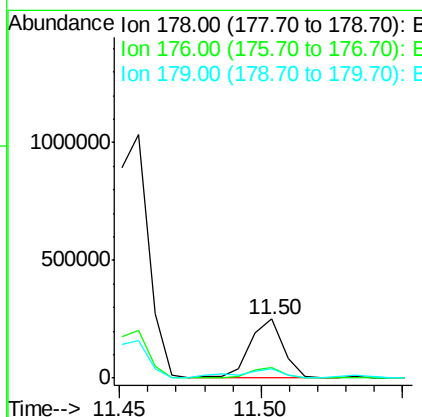
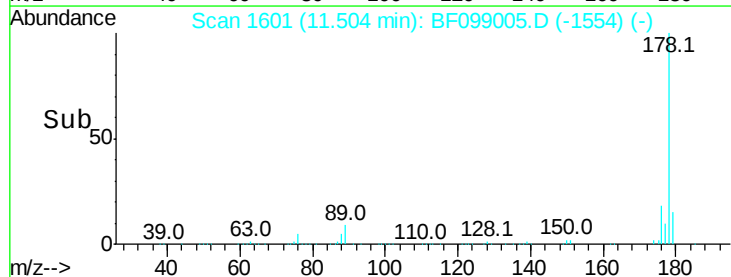
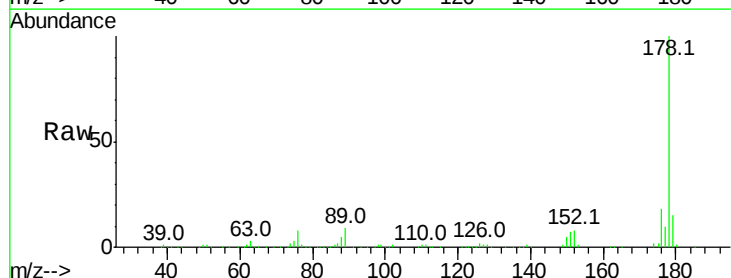
Manual Integrations
APPROVED

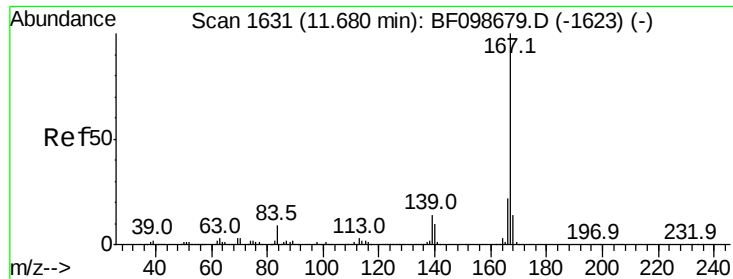
Sohil
10/3/2017 6:50:43 PM



#71
Anthracene
Concen: 10.562 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.2
179	15.1	12.6	19.0





#72

Carbazole

Concen: 7.021 ng

RT: 11.66 min Scan# 1627

Delta R.T. -0.02 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Instrument :

BNA_F

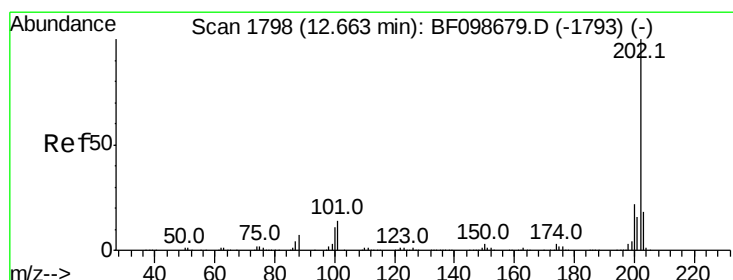
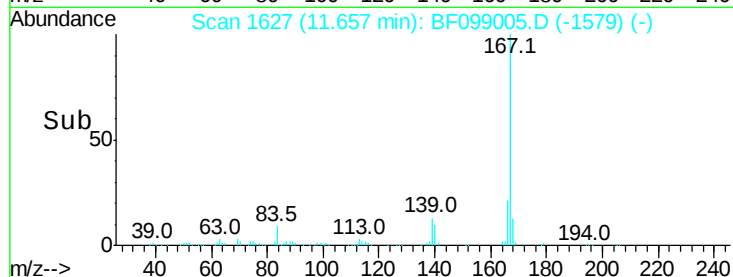
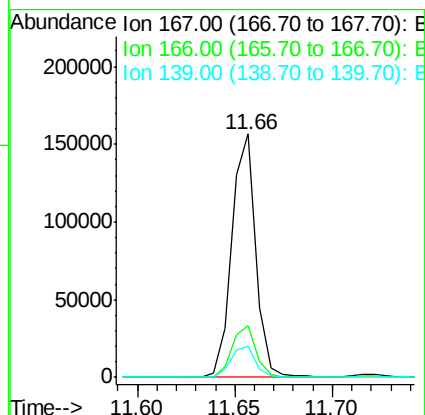
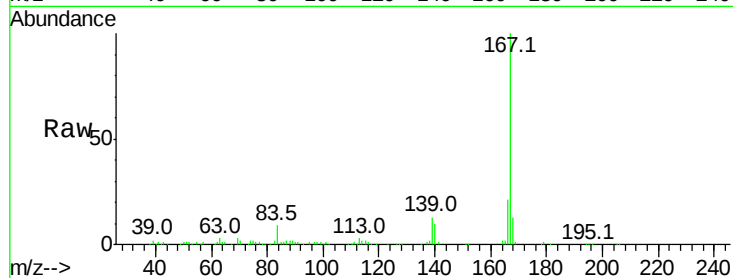
ClientSampleId :

SASP2P-ENV-114-1(0-5)

Tot Ion:	167	Resp:	133016
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.6	26.4
139	12.8	10.9	16.3

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#74

Fluoranthene

Concen: 48.767 ng

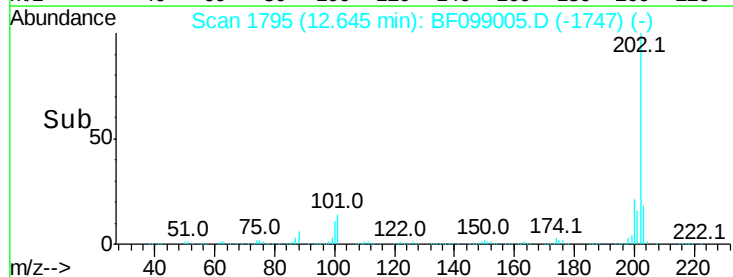
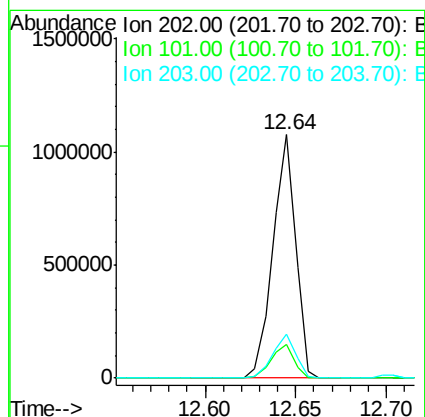
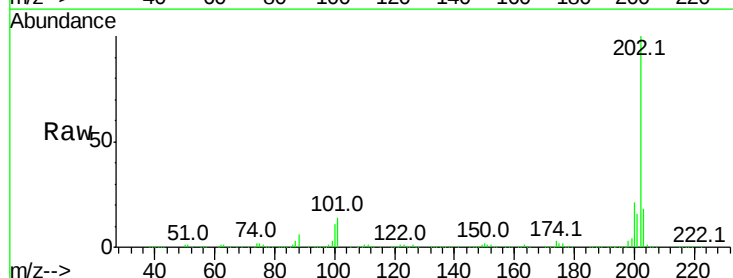
RT: 12.64 min Scan# 1795

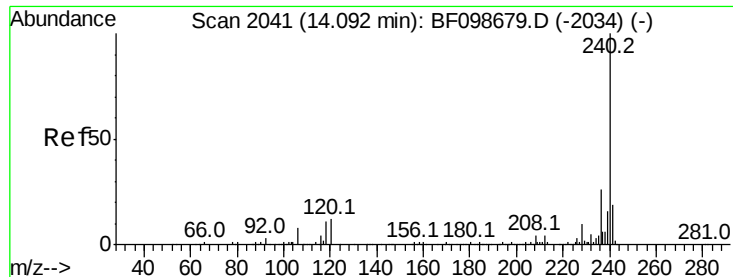
Delta R.T. -0.02 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Tgt Ion:	202	Resp:	933765
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.02 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Instrument :

BNA_F

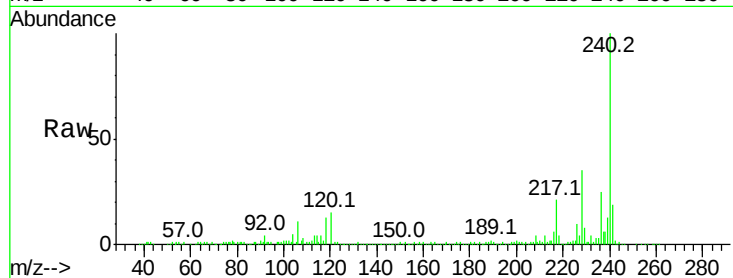
ClientSampleId :

SASP2P-ENV-114-1(0-5)

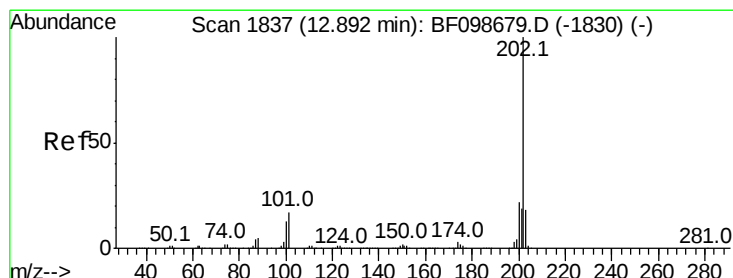
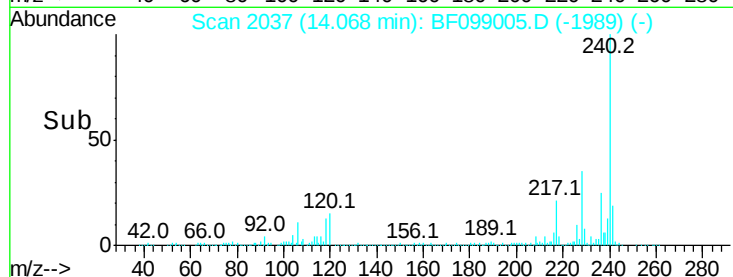
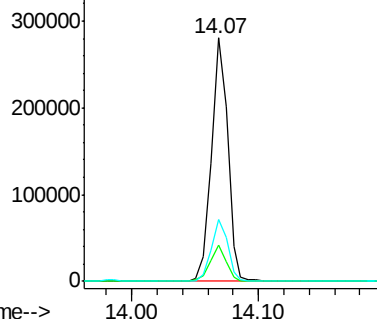
Tot Ion:	240	Resp:	248405
Ion Ratio	Lower	Upper	
240	100		
120	15.1	9.5	14.3#
236	25.2	20.7	31.1

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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

Pyrene

Concen: 43.698 ng

RT: 12.87 min Scan# 1834

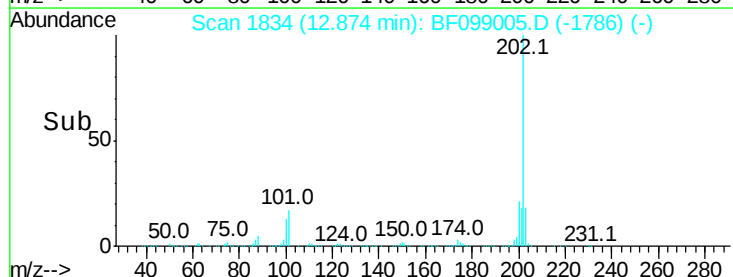
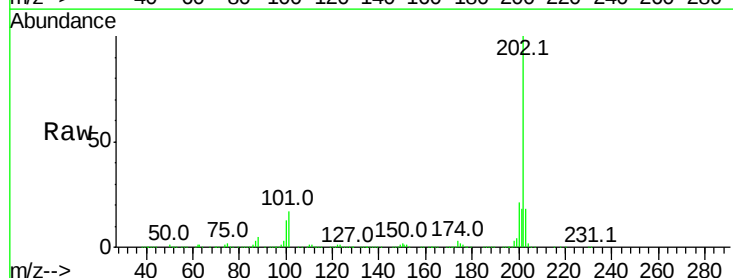
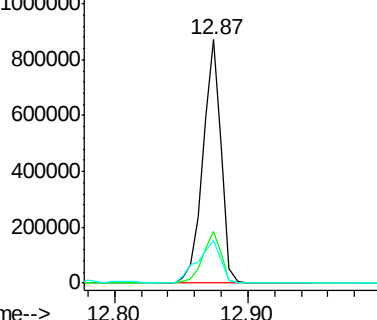
Delta R.T. -0.02 min

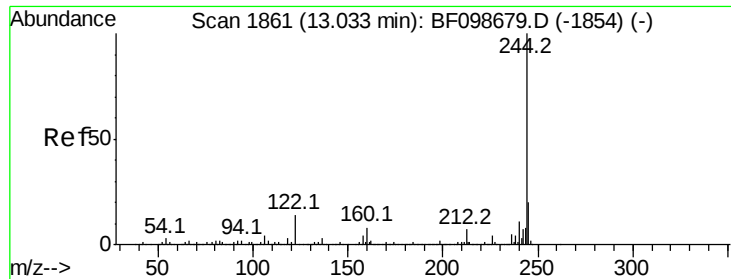
Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Tgt Ion:	202	Resp:	827711
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.4	26.2
203	17.7	14.3	21.5

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





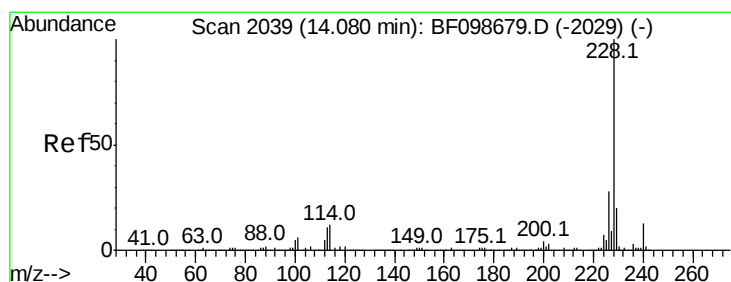
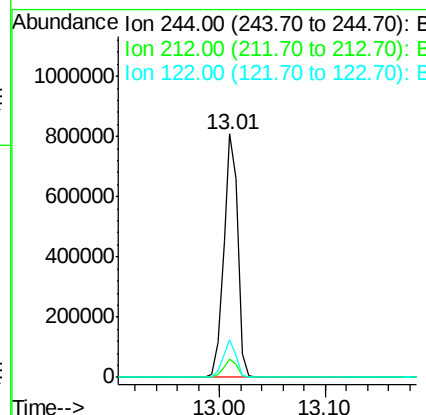
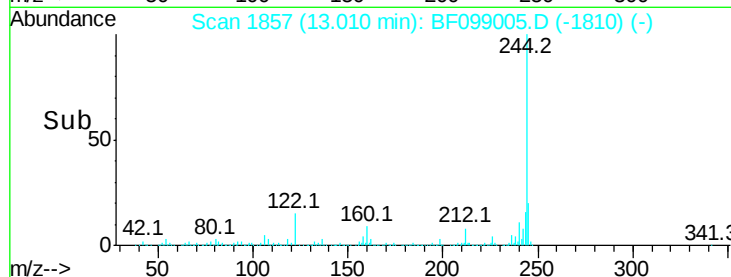
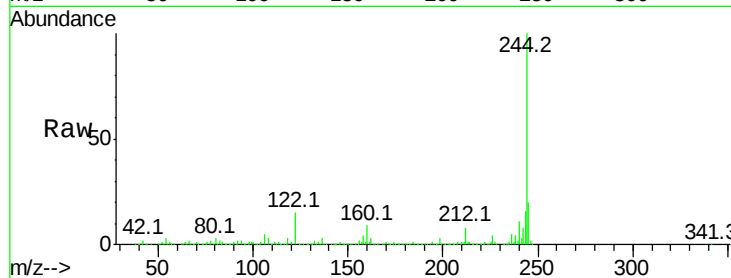
#78
 Terphenyl-d14
 Concen: 69.100 ng
 RT: 13.01 min Scan# 1857
 Delta R.T. -0.02 min
 Lab File: BF099005.D
 Acq: 2 Oct 2017 17:48

Instrument :
 BNA_F
 ClientSampleId :
 SASP2P-ENV-114-1(0-5)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.4	8.0
122	15.3	11.0	16.4

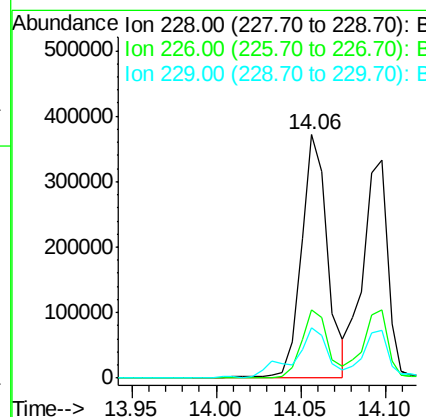
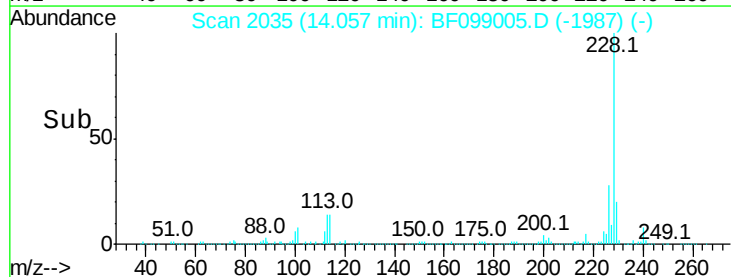
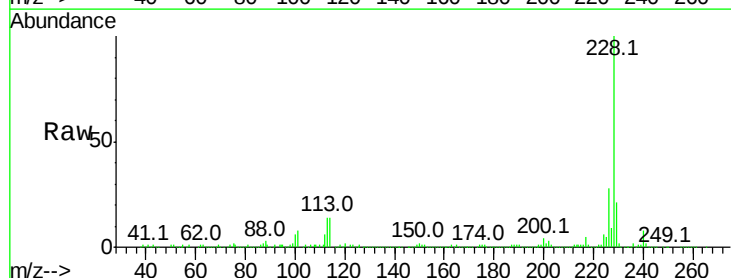
Manual Integrations
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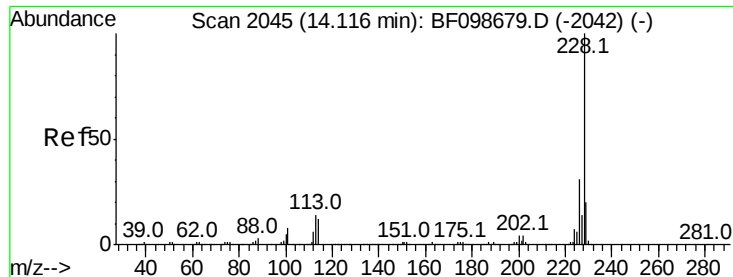
Sohil
 10/3/2017 6:50:43 PM



#80
 Benzo(a)anthracene
 Concen: 26.564 ng
 RT: 14.06 min Scan# 2035
 Delta R.T. -0.02 min
 Lab File: BF099005.D
 Acq: 2 Oct 2017 17:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	20.6	15.8	23.6





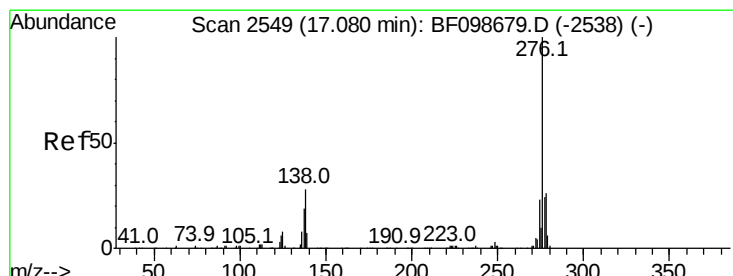
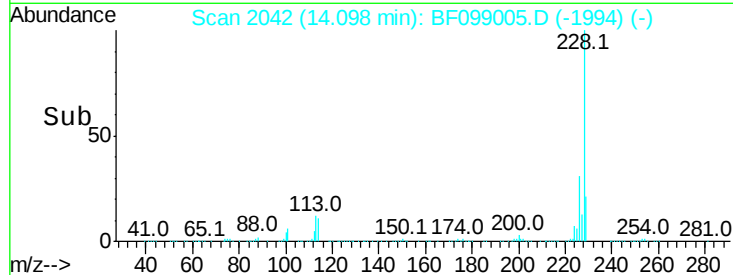
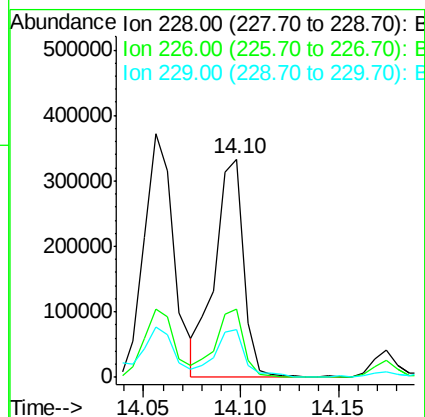
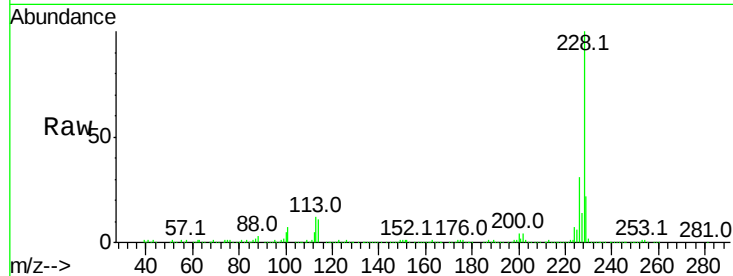
#82
Chrysene
Concen: 23.914 ng
RT: 14.10 min Scan# 2042
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

Tot Ion:	228	Resp:	342448
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.0	37.6
229	21.7	16.2	24.4

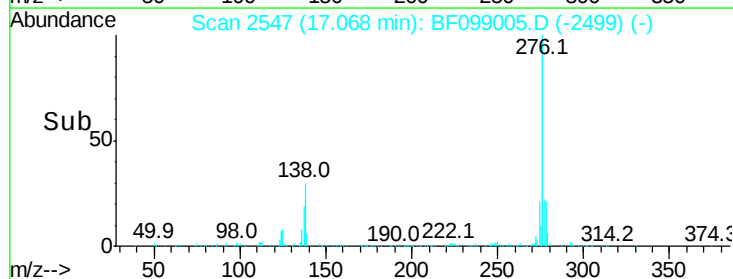
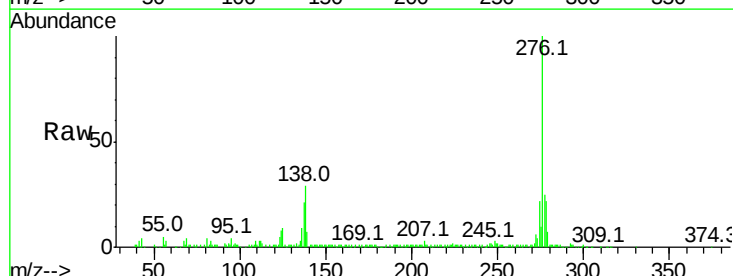
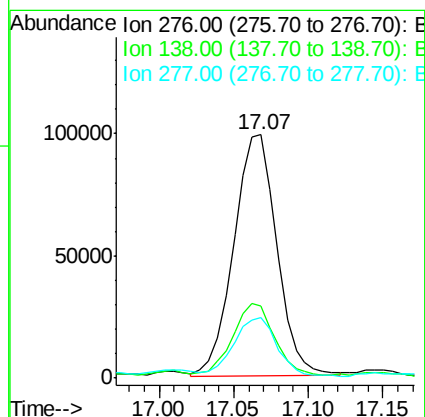
Manual Integrations
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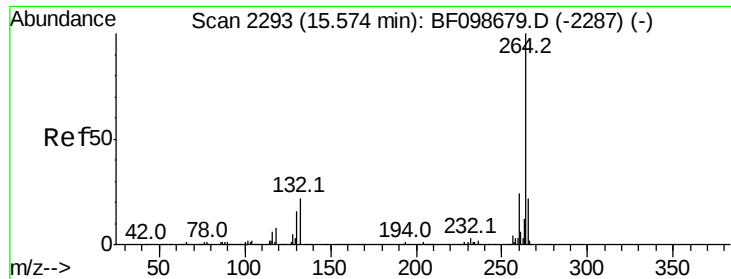
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 17.306 ng
RT: 17.07 min Scan# 2547
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Tgt Ion:	276	Resp:	198242
Ion Ratio	Lower	Upper	
276	100		
138	29.3	25.0	37.6
277	24.3	20.1	30.1





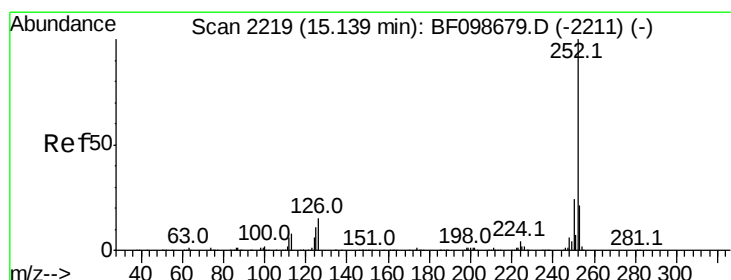
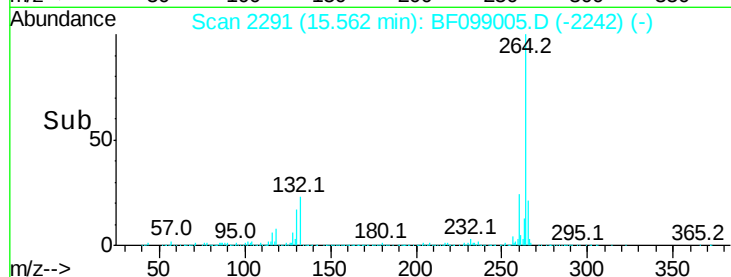
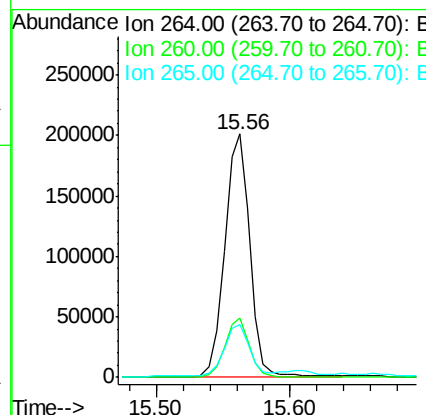
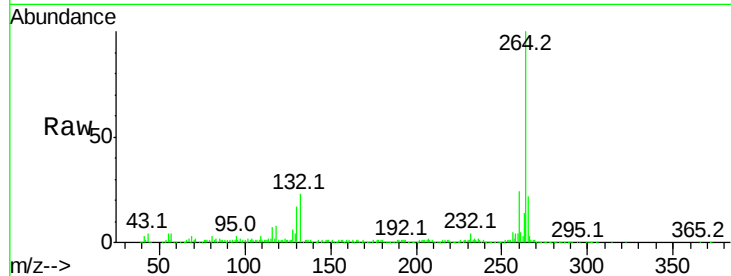
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.56 min Scan# 2291
Delta R.T. -0.01 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.6	17.5	26.3

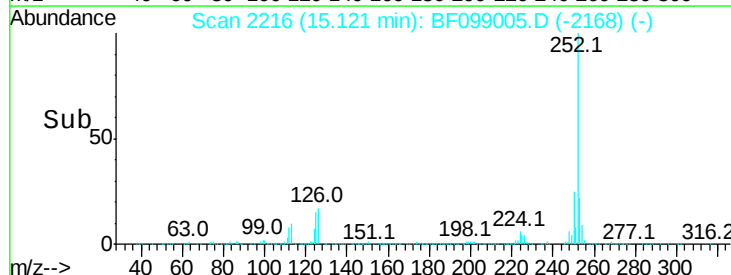
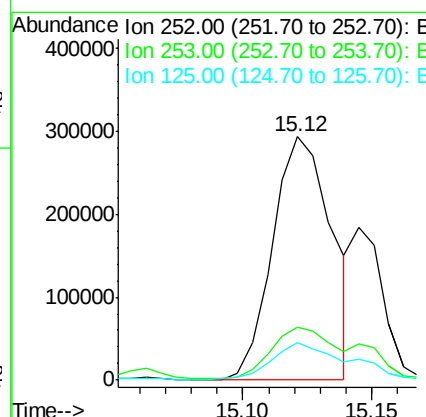
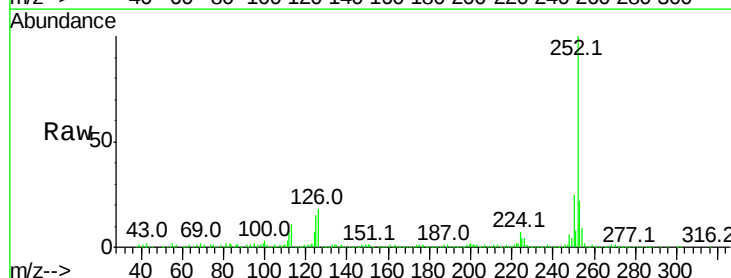
Manual Integrations
APPROVED

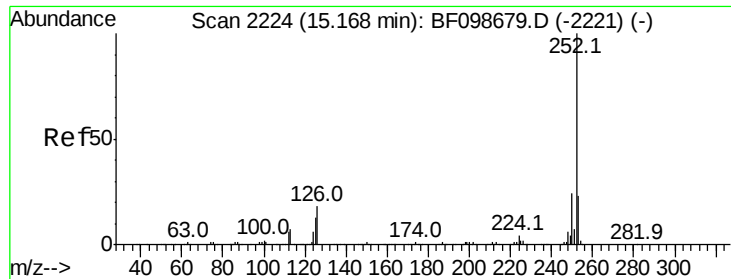
Sohil
10/3/2017 6:50:43 PM



#87
Benzo(b)fluoranthene
Concen: 28.865 ng m
RT: 15.12 min Scan# 2216
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.6
125	15.4	9.0	13.6#





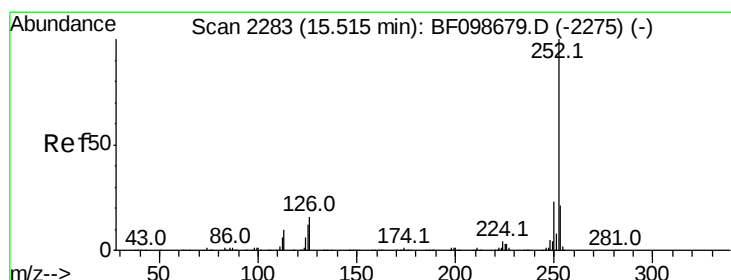
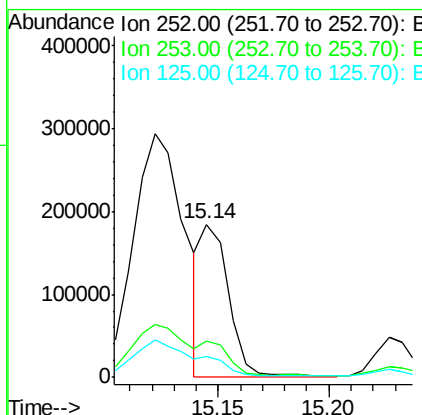
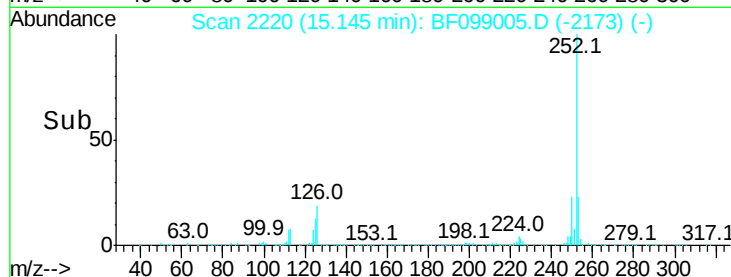
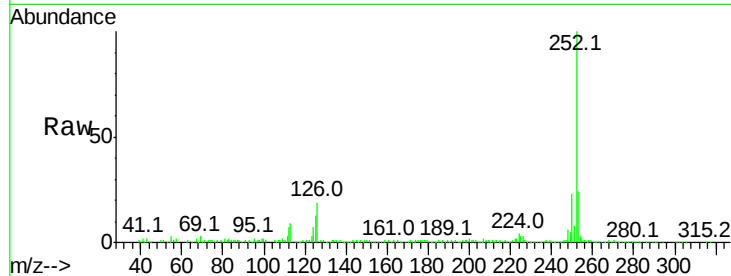
#88
Benzo(k)fluoranthene
Concen: 9.984 ng m
RT: 15.14 min Scan# 2220
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-114-1(0-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	13.5	10.2	15.2

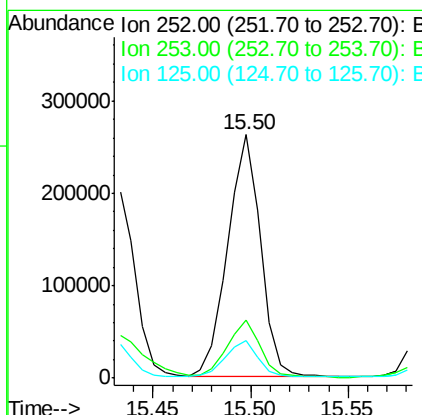
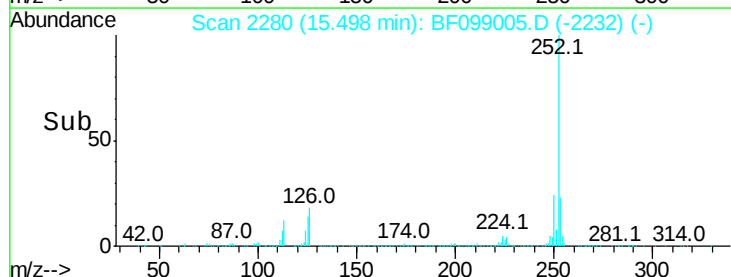
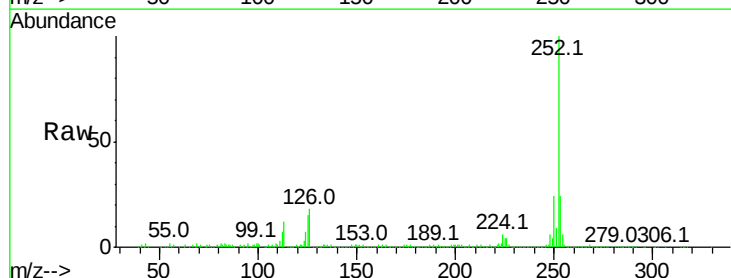
Manual Integrations
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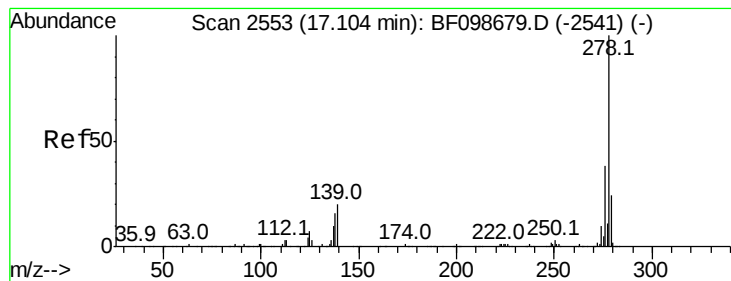
Sohil
10/3/2017 6:50:43 PM



#89
Benzo(a)pyrene
Concen: 20.590 ng
RT: 15.50 min Scan# 2280
Delta R.T. -0.02 min
Lab File: BF099005.D
Acq: 2 Oct 2017 17:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	15.2	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 4.167 ng

RT: 17.07 min Scan# 2548

Delta R.T. -0.03 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Instrument :

BNA_F

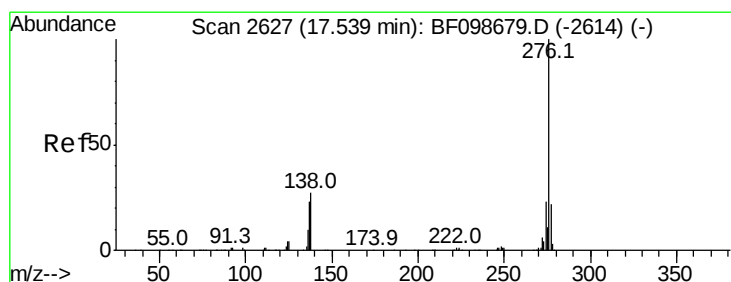
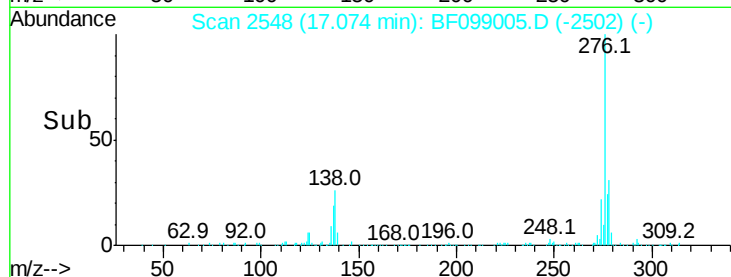
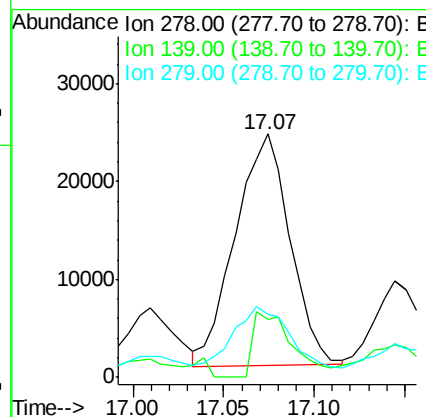
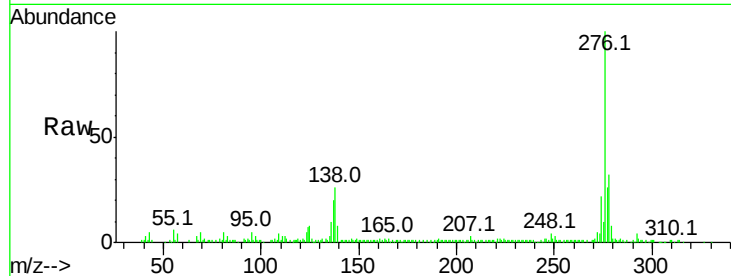
ClientSampleId :

SASP2P-ENV-114-1(0-5)

Tot Ion:	278	Resp:	49778
Ion Ratio	Lower	Upper	
278	100		
139	24.0	15.9	23.9#
279	25.7	19.0	28.4

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 16.293 ng

RT: 17.53 min Scan# 2625

Delta R.T. -0.02 min

Lab File: BF099005.D

Acq: 2 Oct 2017 17:48

Tgt Ion:	276	Resp:	192392
Ion Ratio	Lower	Upper	
276	100		
277	23.9	17.9	26.9
138	31.0	21.8	32.8

