

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
 Data File : BF100946.D
 Acq On : 28 Nov 2017 20:47
 Operator : SJ/JU
 Sample : I6579-09 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

Sohil
 11/29/2017 4:29:06 PM

Quant Time: Nov 29 07:39:18 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	6.86	152	57922	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	208371	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	81693	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	128762	20.00	ng	0.00
75) Chrysene-d12	14.03	240	135887	20.00	ng	0.00
86) Perylene-d12	15.50	264	120543	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	36572	10.12	ng	0.00
7) Phenol-d6	6.48	99	43129	9.68	ng	-0.01
23) Nitrobenzene-d5	7.42	82	25671	8.15	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	7792	9.36	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	50839	9.48	ng	0.00
78) Terphenyl-d14	12.96	244	42720	7.22	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	30220	3.011	ng	99
37) 2-Methylnaphthalene	8.85	142	14639	2.197	ng	97
48) Acenaphthylene	9.76	152	284918	33.541	ng	100
51) Acenaphthene	9.93	154	32304	6.253	ng	98
54) Dibenzofuran	10.10	168	22568m	3.117	ng	
57) Fluorene	10.45	166	69995	13.195	ng	94
70) Phenanthrene	11.41	178	537821	79.331	ng	99
71) Anthracene	11.46	178	296071	43.045	ng	99
74) Fluoranthene	12.60	202	679937	94.633	ng	97
77) Pyrene	12.84	202	905630	93.494	ng	99
80) Benzo(a)anthracene	14.02	228	529407m	64.695	ng	
82) Chrysene	14.06	228	470924	59.429	ng	97
85) Indeno(1,2,3-cd)pyrene	16.99	276	139343	21.740	ng	# 89
87) Benzo(b)fluoranthene	15.08	252	415630m	58.199	ng	
88) Benzo(k)fluoranthene	15.09	252	152075m	22.537	ng	
89) Benzo(a)pyrene	15.44	252	276879	43.732	ng	98
90) Dibenzo(a,h)anthracene	16.99	278	44780m	8.649	ng	
91) Benzo(g,h,i)perylene	17.44	276	142870	28.188	ng	# 91

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

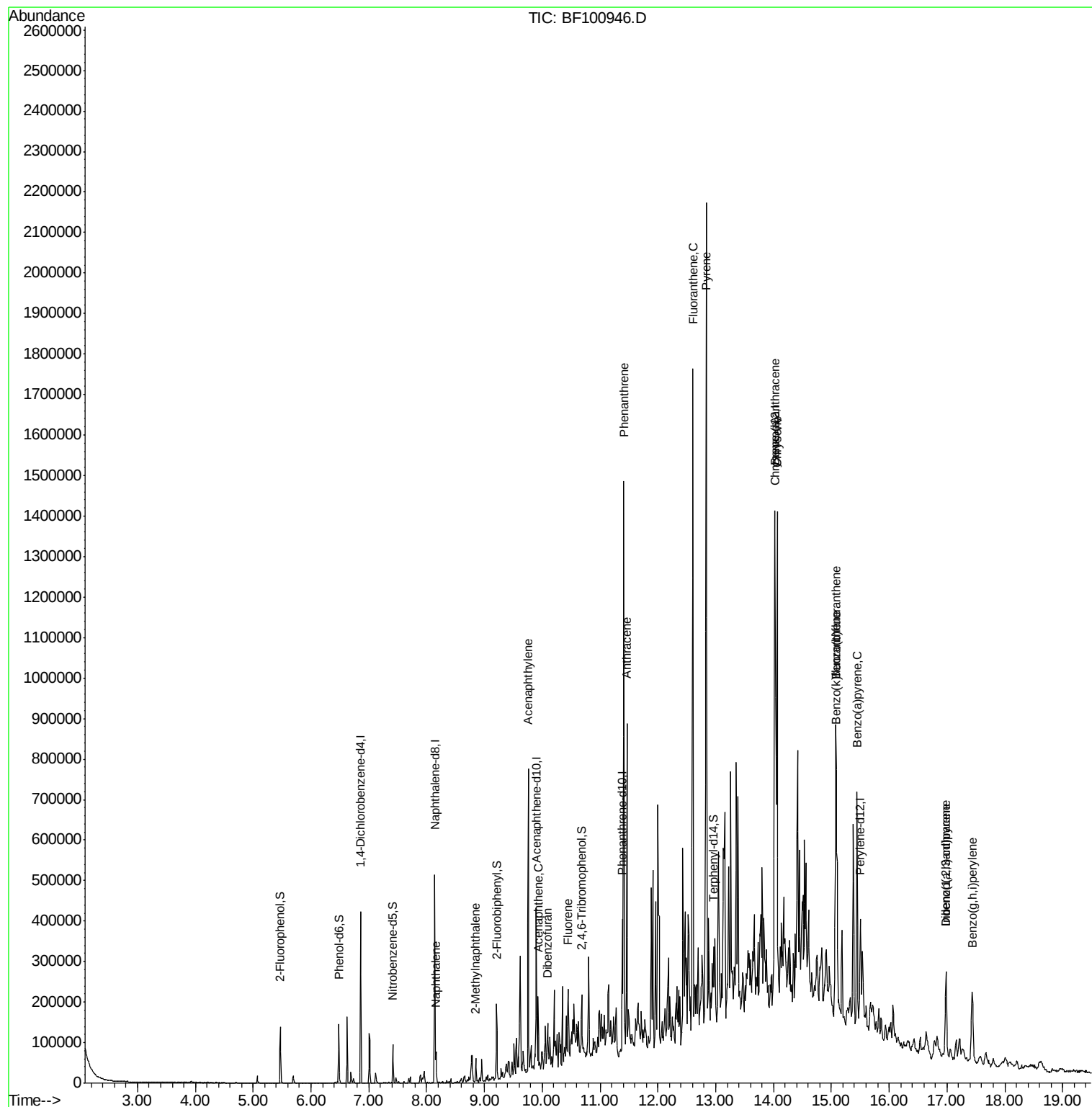
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
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#1

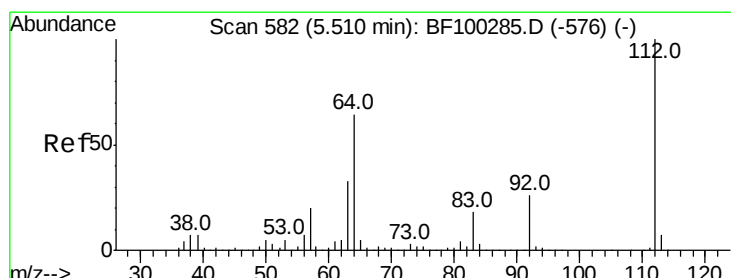
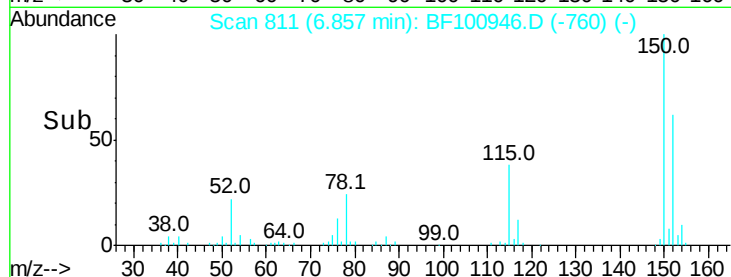
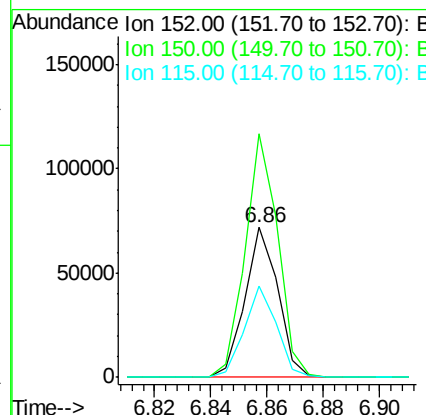
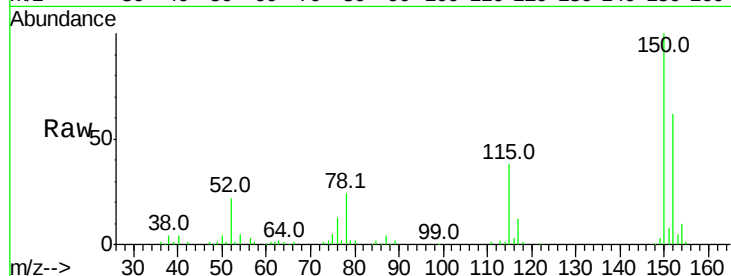
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. -0.00 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.3	124.6	186.8
115	61.0	50.1	75.1

Manual Integrations
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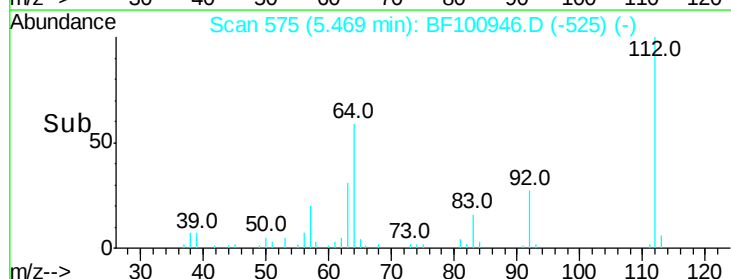
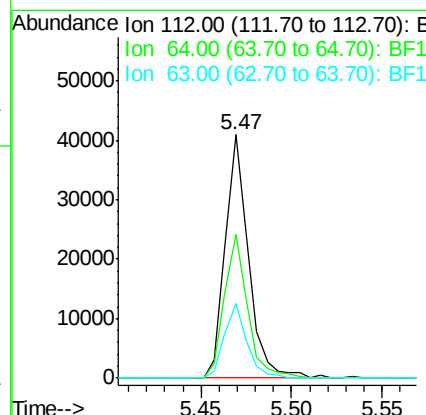
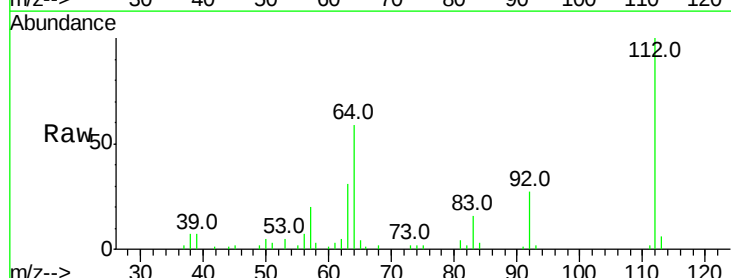
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#5

2-Fluorophenol
Concen: 10.121 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.9	47.9	71.9
63	30.7	23.7	35.5





#7

Phenol-d6

Concen: 9.679 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF100946.D

Acq: 28 Nov 2017 20:47

Instrument :

BNA_F

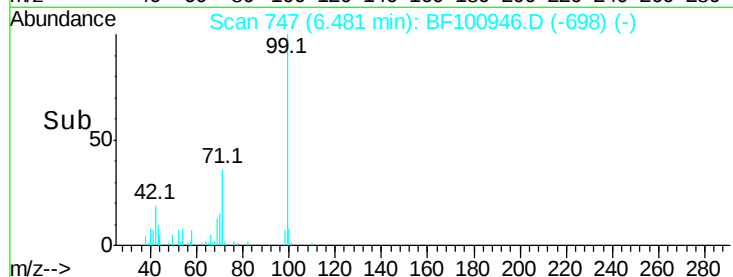
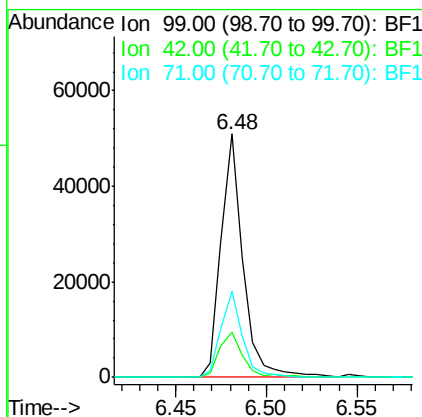
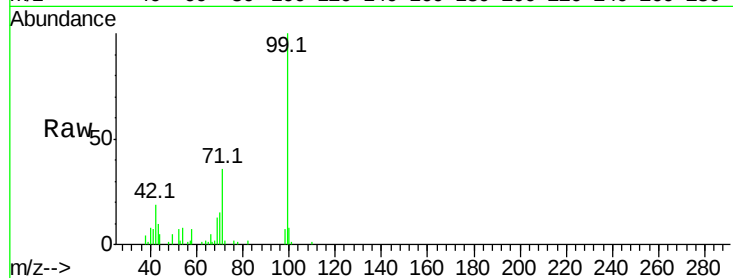
ClientSampleId :

HAR-2-E(0-1)

Tot Ion:	99	Resp:	43129
Ion Ratio	Lower	Upper	
99	100		
42	18.7	14.5	21.7
71	35.7	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

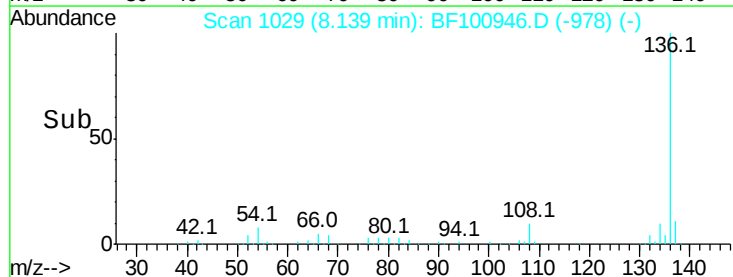
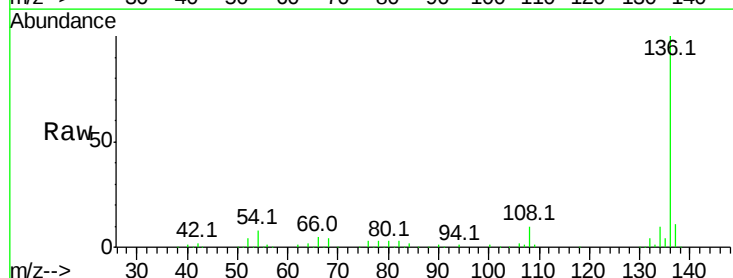
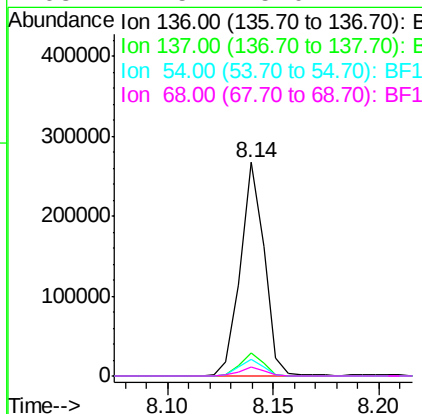
RT: 8.14 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BF100946.D

Acq: 28 Nov 2017 20:47

Tgt Ion:	136	Resp:	208371
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	7.8	6.6	9.8
68	4.5	5.0	7.4#





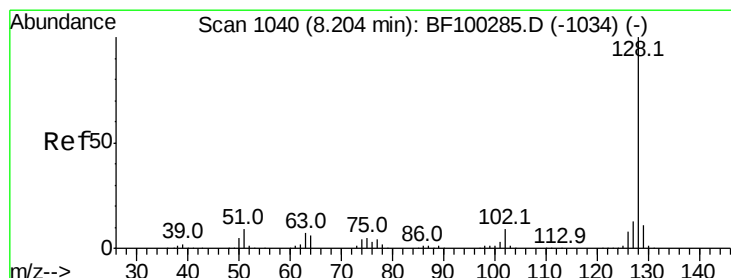
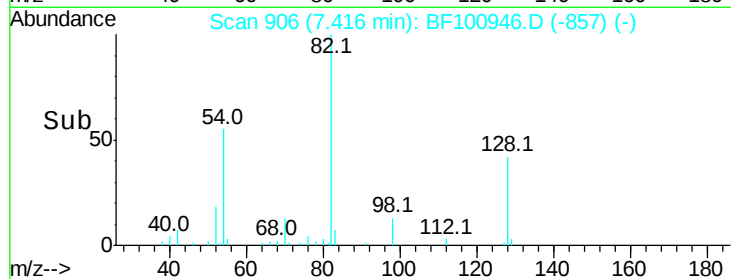
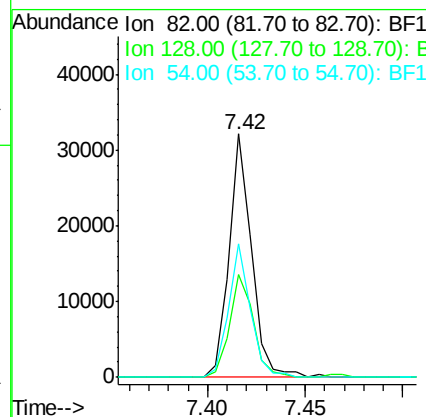
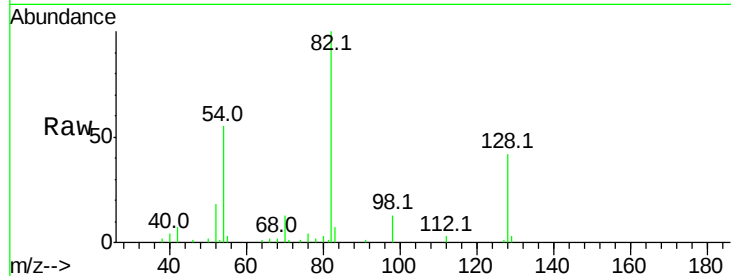
#23
Nitrobenzene-d5
Concen: 8.145 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Instrument :
BNA_F
ClientSampled :
HAR-2-E(0-1)

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.4	36.1	54.1
54	54.8	41.4	62.2

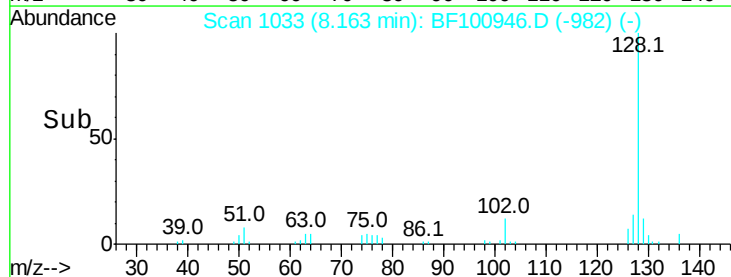
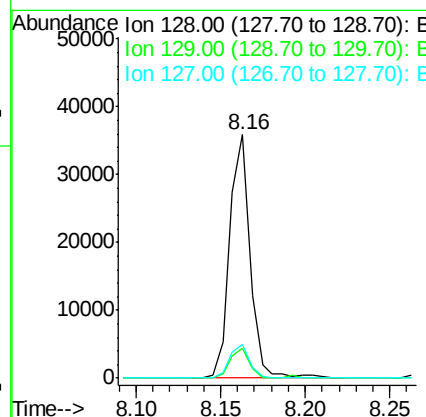
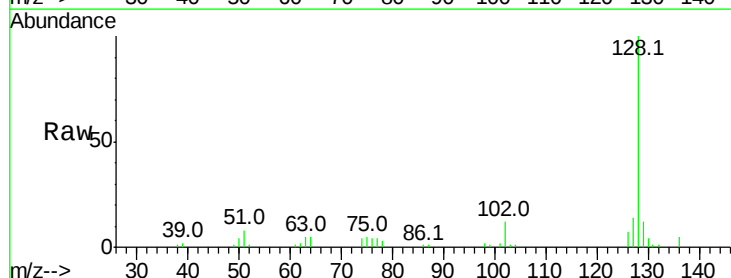
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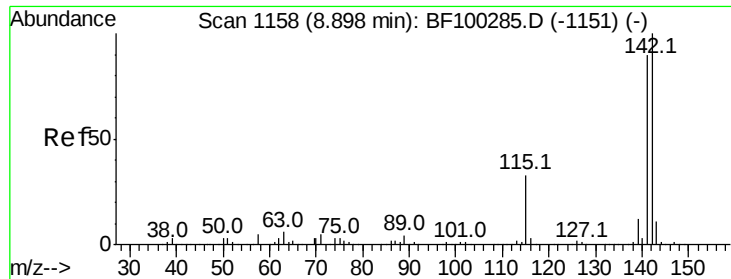
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#31
Naphthalene
Concen: 3.011 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	8.8	13.2
127	13.6	10.9	16.3





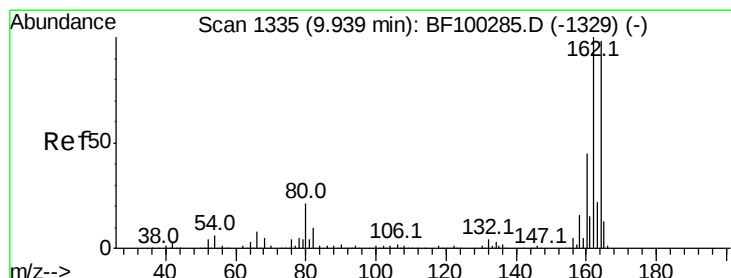
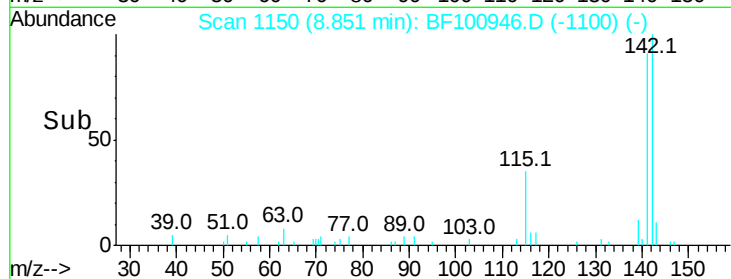
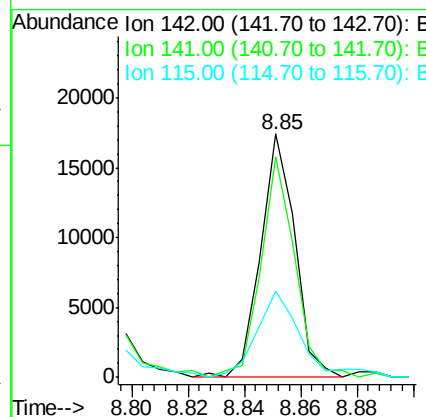
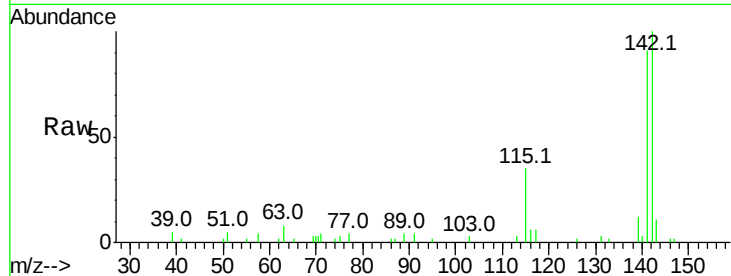
#37
2-Methylnaphthalene
Concen: 2.197 ng
RT: 8.85 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	35.4	26.1	39.1

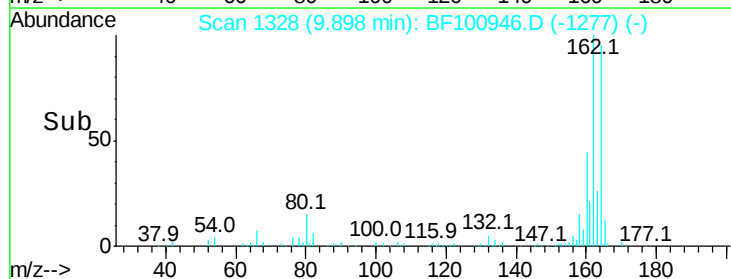
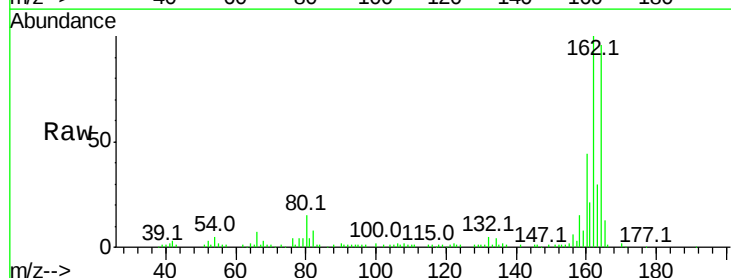
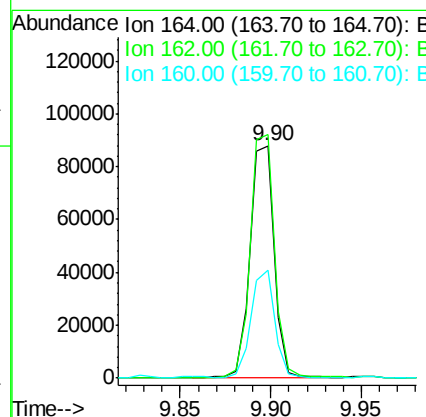
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.00 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	86.1	129.1
160	46.5	38.3	57.5





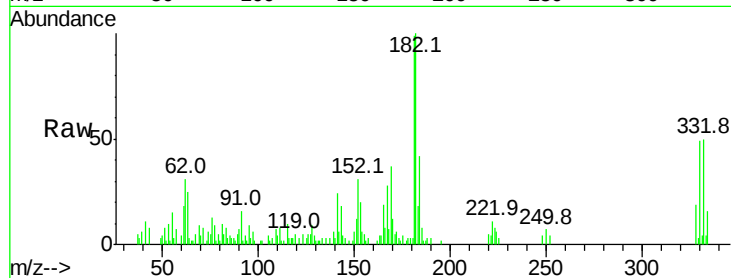
#41
 2,4,6-Tribromophenol
 Concen: 9.360 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF100946.D
 Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.1	77.0	115.6
141	67.5	29.9	44.9

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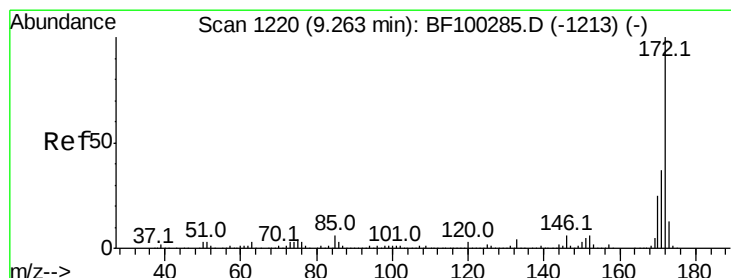
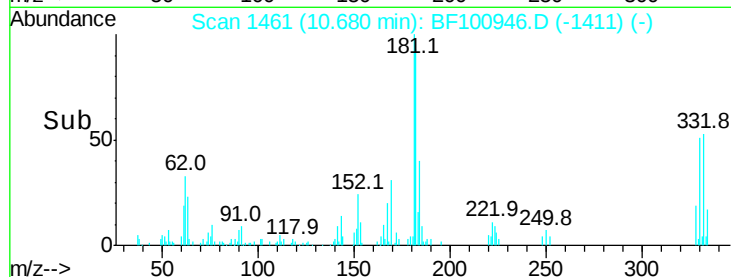
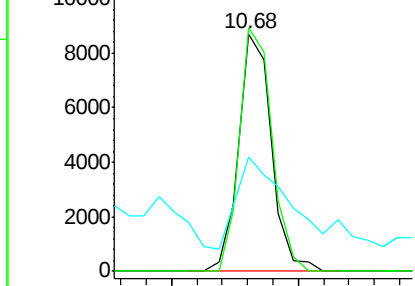


Abundance

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: 9.476 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF100946.D
 Acq: 28 Nov 2017 20:47

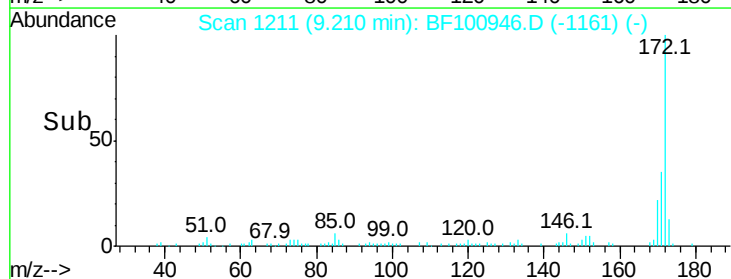
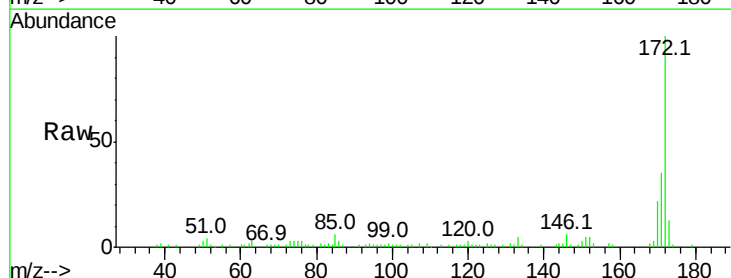
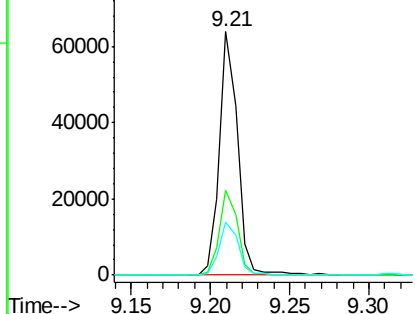
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.7	44.5
170	21.9	19.6	29.4

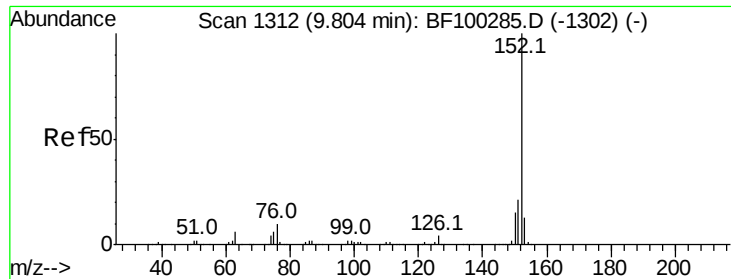
Abundance

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





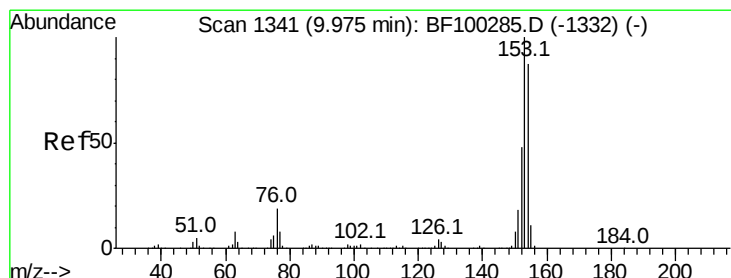
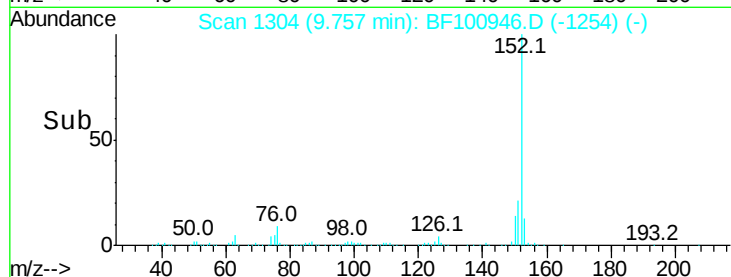
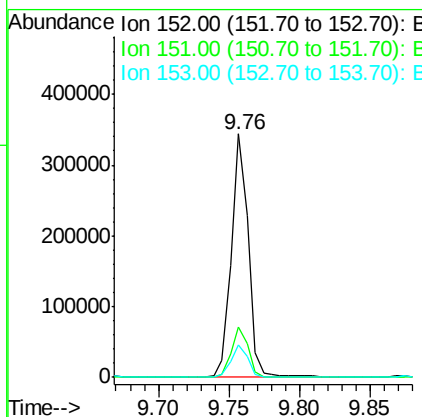
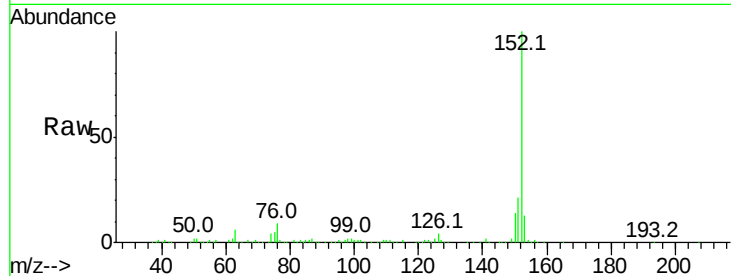
#48
Acenaphthylene
Concen: 33.541 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Resp	Lower	Upper
152	100	284918		
151	20.6		16.3	24.5
153	13.2		10.7	16.1

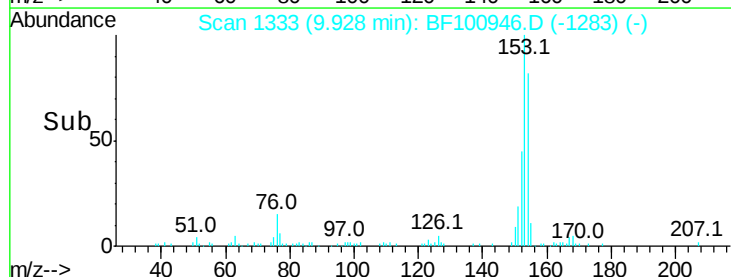
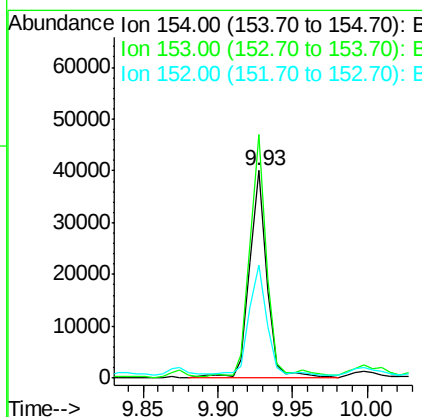
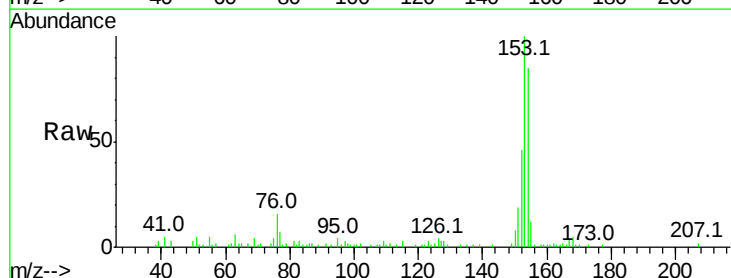
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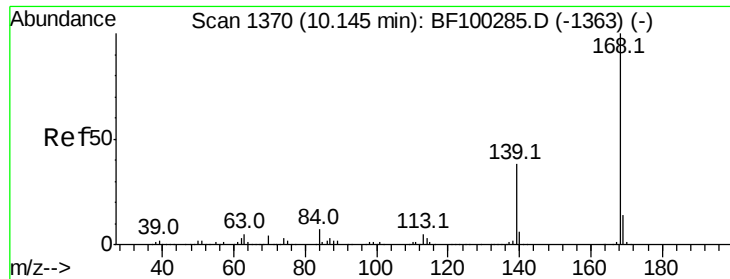
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#51
Acenaphthene
Concen: 6.253 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	32304		
153	117.4		91.2	136.8
152	54.3		43.8	65.8





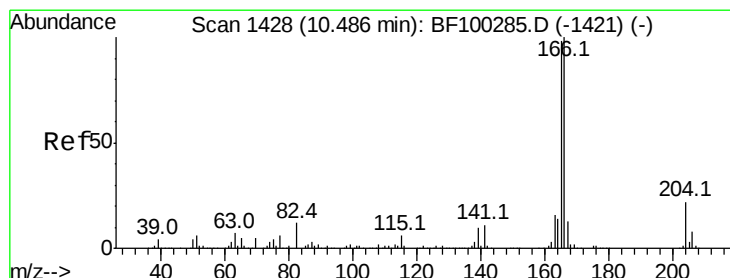
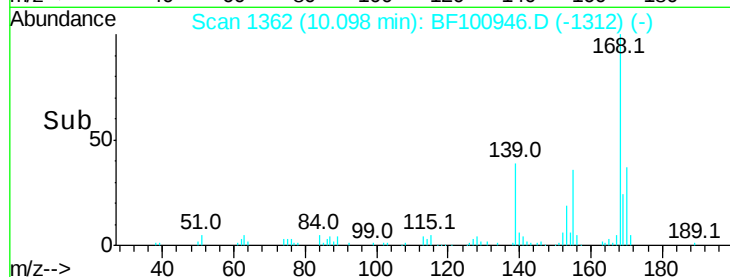
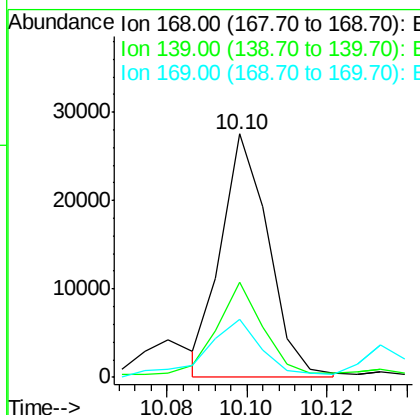
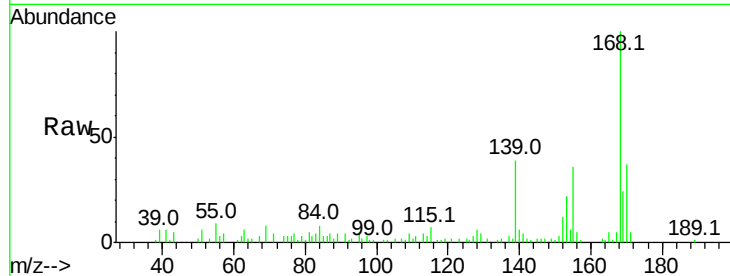
#54
Dibenzofuran
Concen: 3.117 ng
RT: 10.10 min Scan# 1362
Delta R.T. -0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.2	30.1	45.1
169	23.6	10.9	16.3

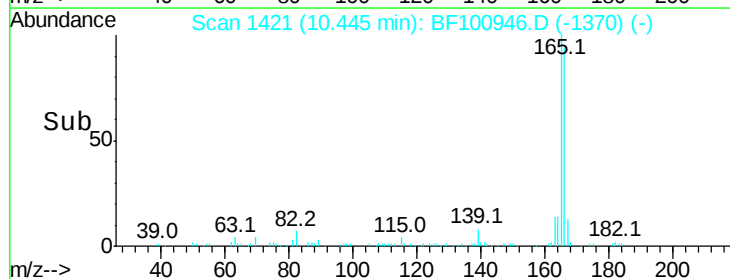
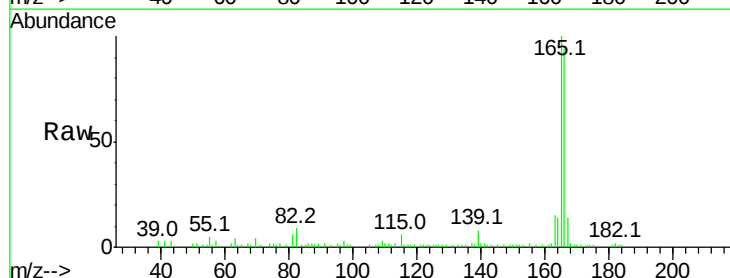
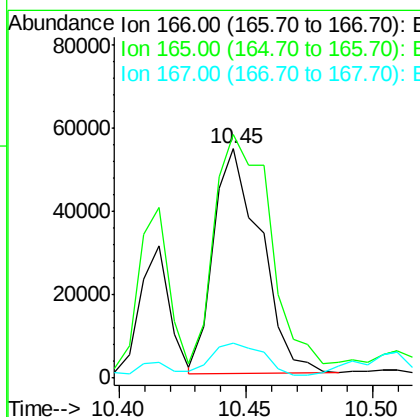
Manual Integrations
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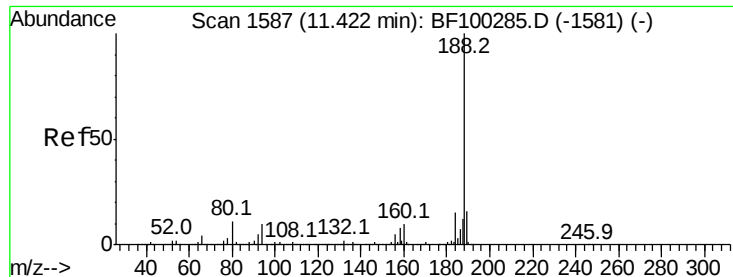
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#57
Fluorene
Concen: 13.195 ng
RT: 10.45 min Scan# 1421
Delta R.T. -0.00 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
166	100		
165	106.1	79.8	119.8
167	15.0	10.6	16.0





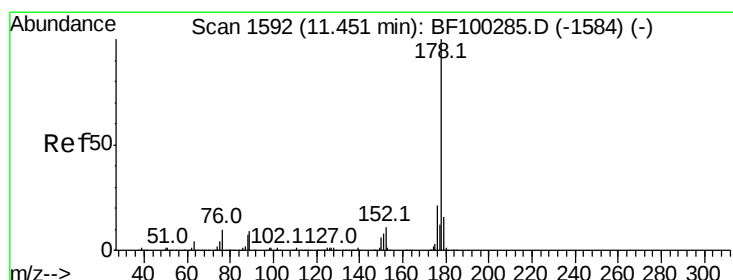
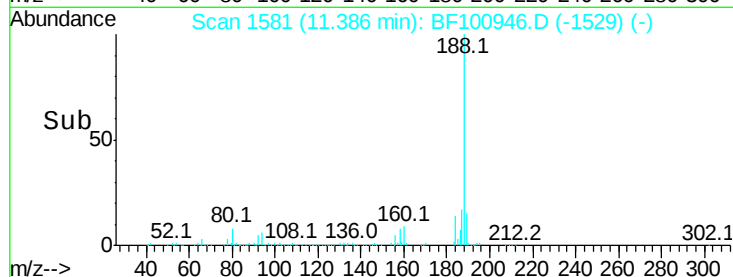
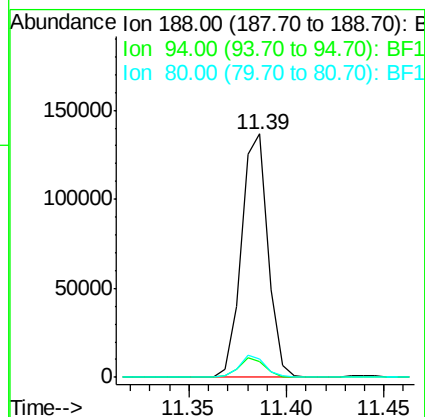
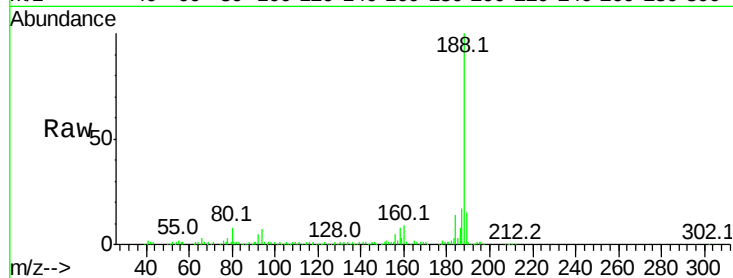
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1581
Delta R.T. 0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	6.6	8.5	12.7#
80	7.6	9.2	13.8#

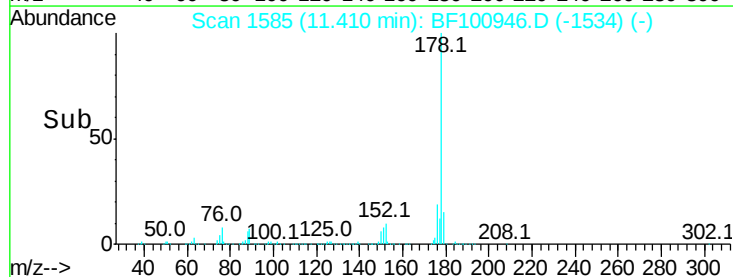
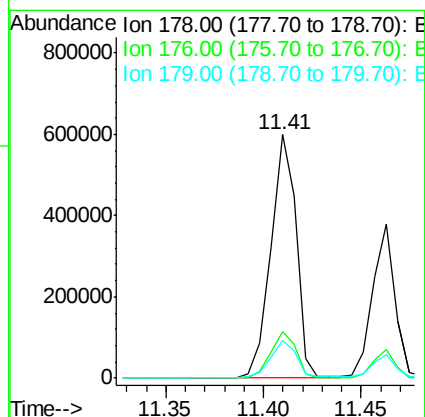
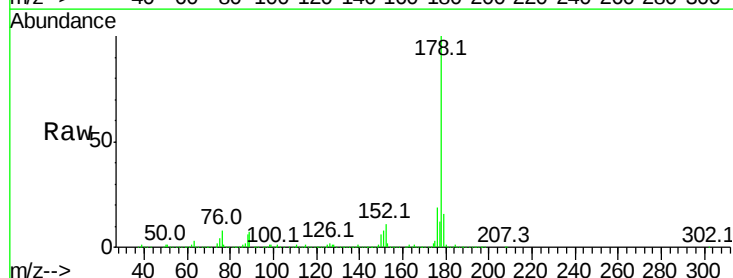
Manual Integrations
APPROVED

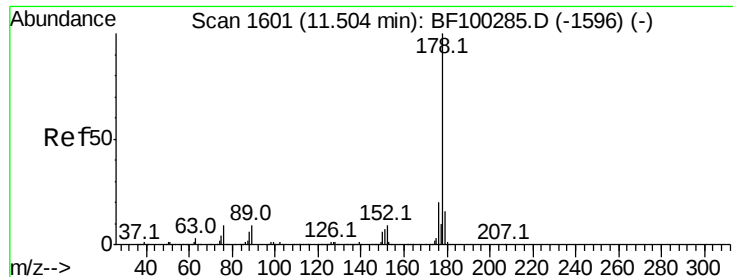
Sohil
11/29/2017 4:29:06 PM



#70
Phenanthrene
Concen: 79.331 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.7	13.0	19.6





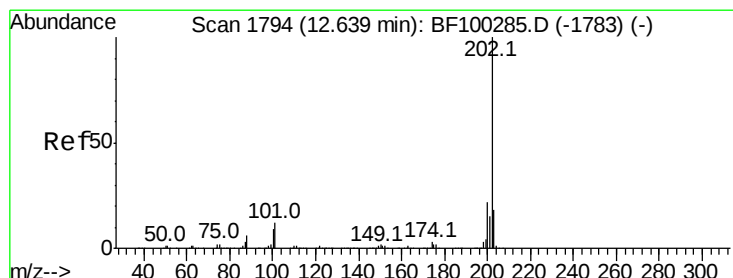
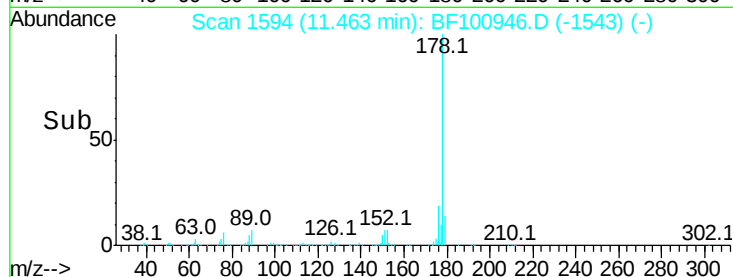
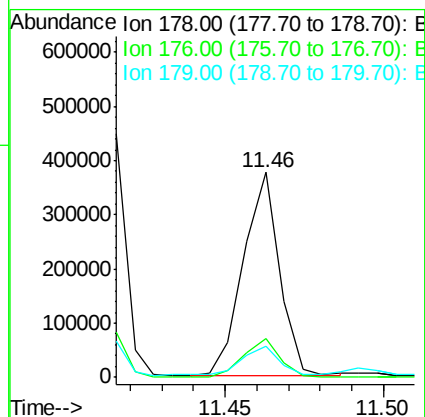
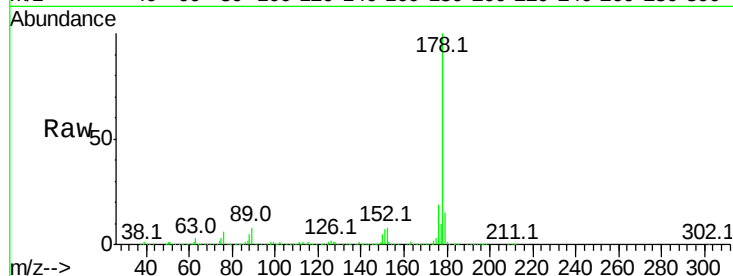
#71
 Anthracene
 Concen: 43.045 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: BF100946.D
 Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.3	12.6	19.0

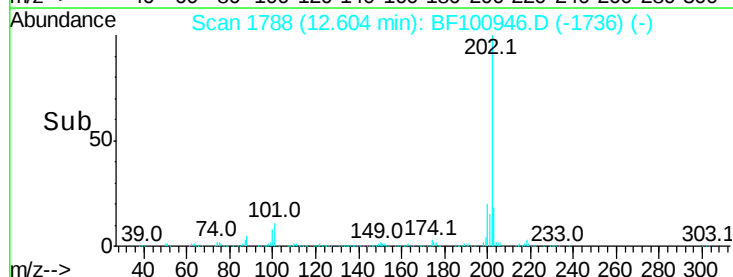
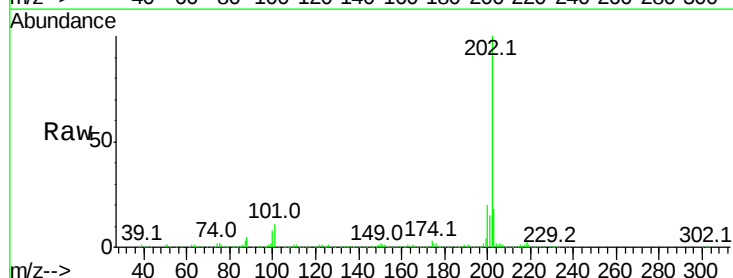
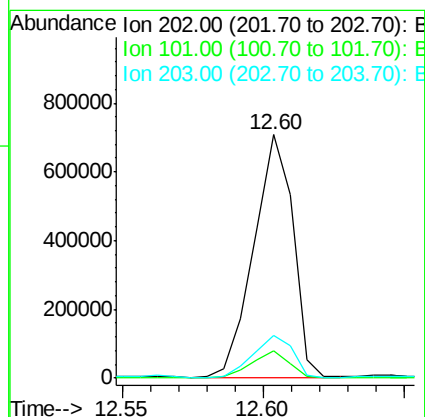
Manual Integrations
 APPROVED

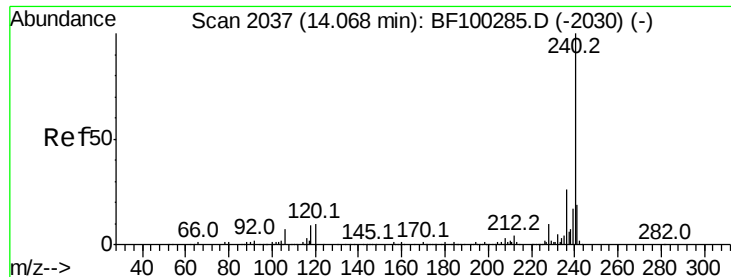
Sohil
 11/29/2017 4:29:06 PM



#74
 Fluoranthene
 Concen: 94.633 ng
 RT: 12.60 min Scan# 1788
 Delta R.T. 0.01 min
 Lab File: BF100946.D
 Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF100946.D

Acq: 28 Nov 2017 20:47

Instrument :

BNA_F

ClientSampleId :

HAR-2-E(0-1)

Tot Ion:240 Resp: 135887

Ion Ratio Lower Upper

240 100

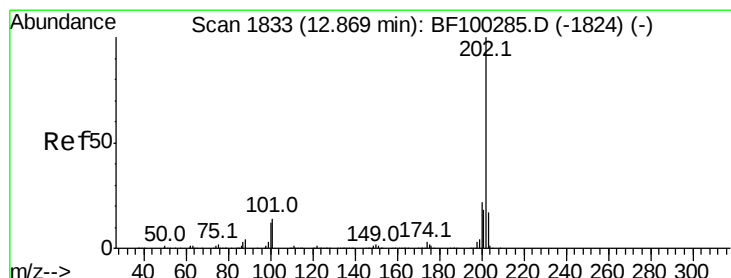
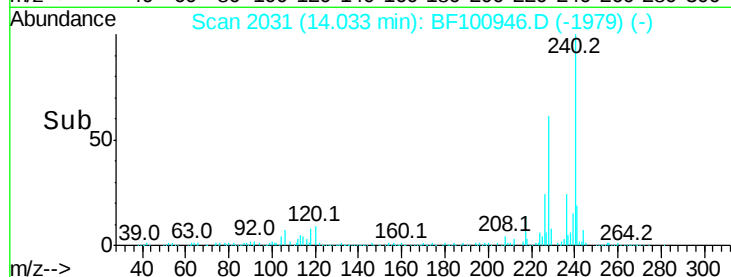
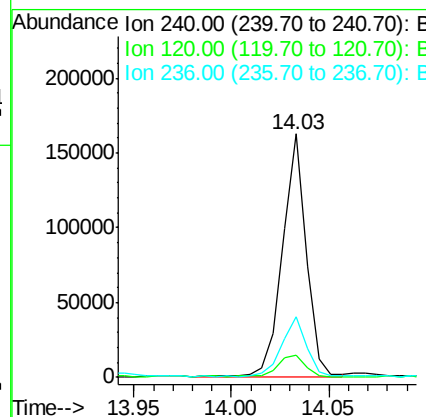
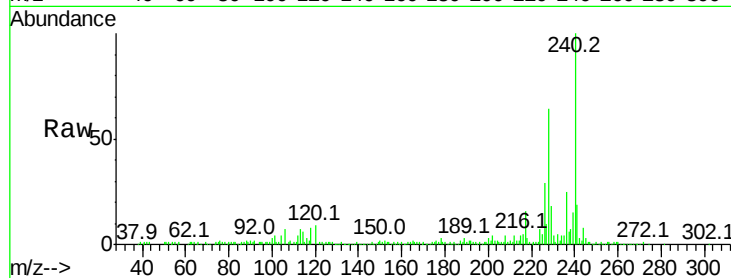
120 9.2 9.5 14.3#

236 24.7 20.7 31.1

Manual Integrations
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Sohil

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#77

Pyrene

Concen: 93.494 ng

RT: 12.84 min Scan# 1828

Delta R.T. 0.01 min

Lab File: BF100946.D

Acq: 28 Nov 2017 20:47

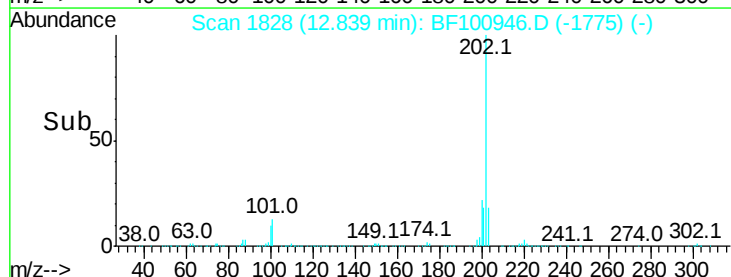
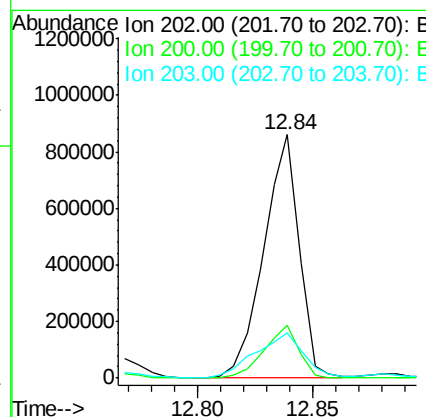
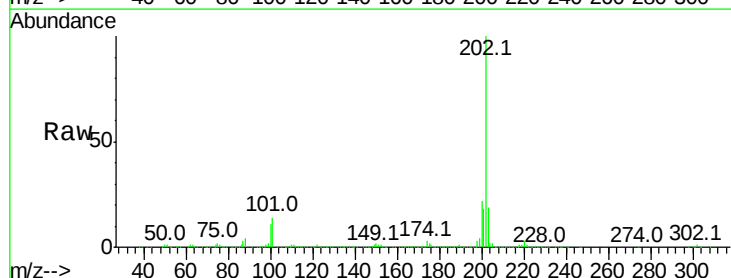
Tgt Ion:202 Resp: 905630

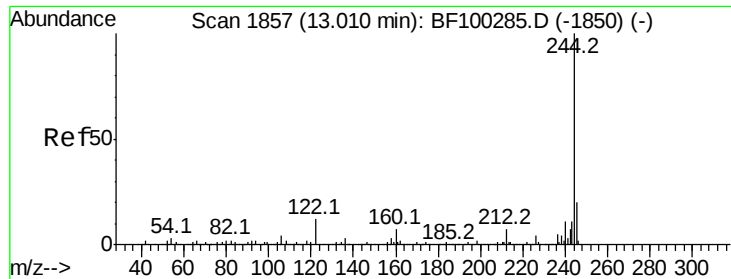
Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

203 18.7 14.3 21.5





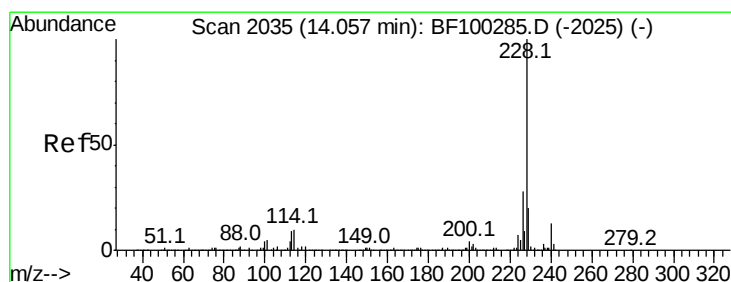
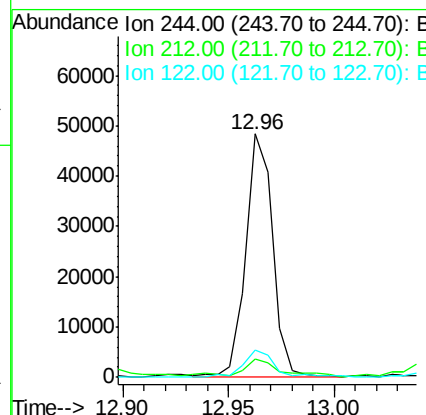
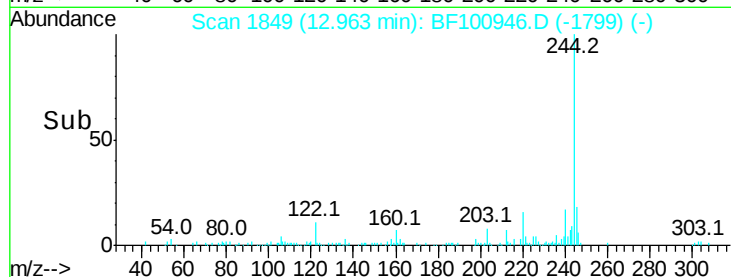
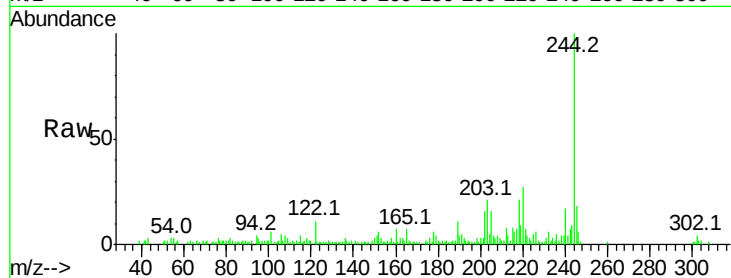
#78
 Terphenyl-d14
 Concen: 7.224 ng
 RT: 12.96 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BF100946.D
 Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.4	8.0
122	11.2	11.0	16.4

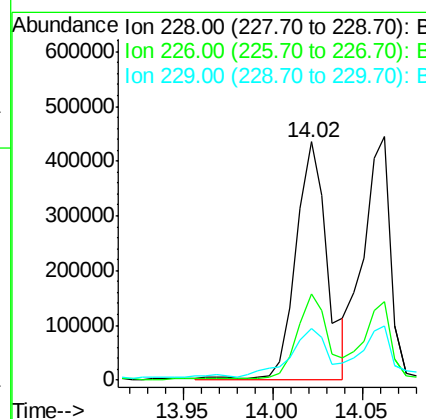
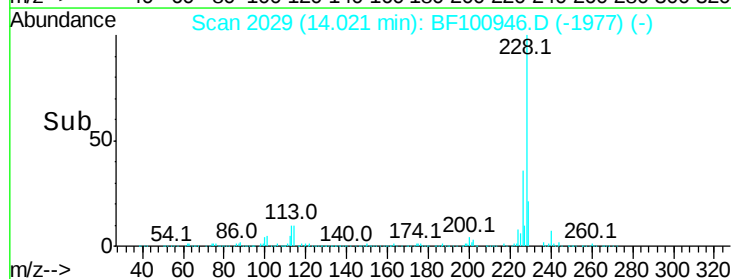
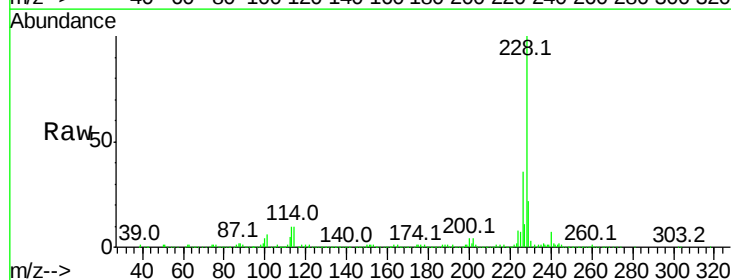
Manual Integrations
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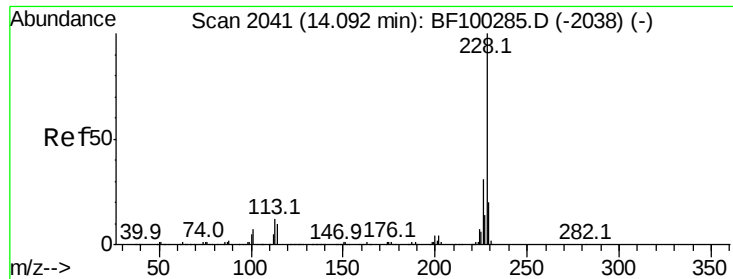
Sohil
 11/29/2017 4:29:06 PM



#80
 Benzo(a)anthracene
 Concen: 64.695 ng m
 RT: 14.02 min Scan# 2029
 Delta R.T. 0.01 min
 Lab File: BF100946.D
 Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.2	22.6	33.8#
229	21.9	15.8	23.6





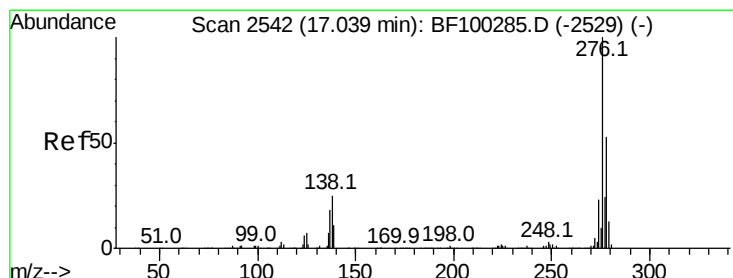
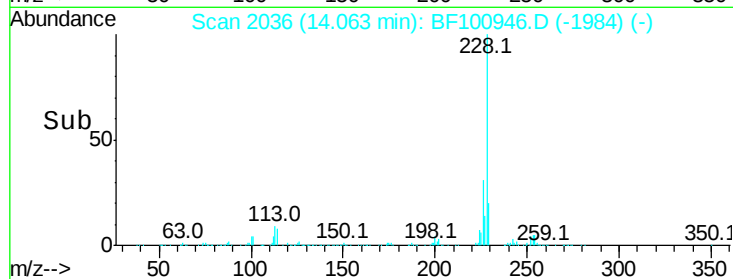
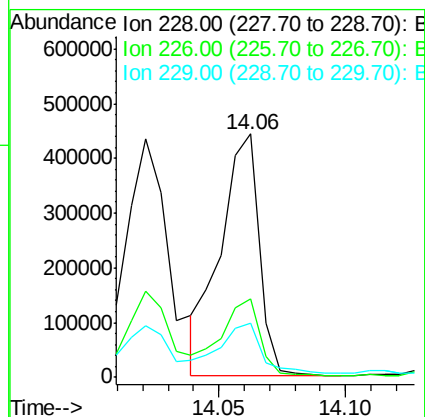
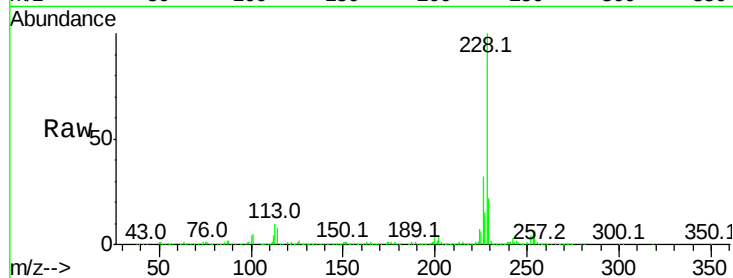
#82
Chrysene
Concen: 59.429 ng
RT: 14.06 min Scan# 2036
Delta R.T. 0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Instrument :
BNA_F
ClientSampled :
HAR-2-E(0-1)

Tot Ion:	228	Resp:	470924
Ion Ratio	Lower	Upper	
228	100		
226	32.1	25.0	37.6
229	22.4	16.2	24.4

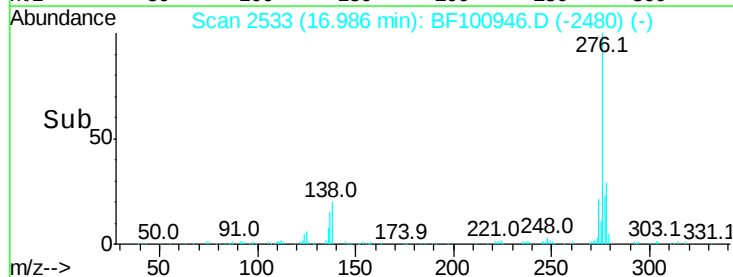
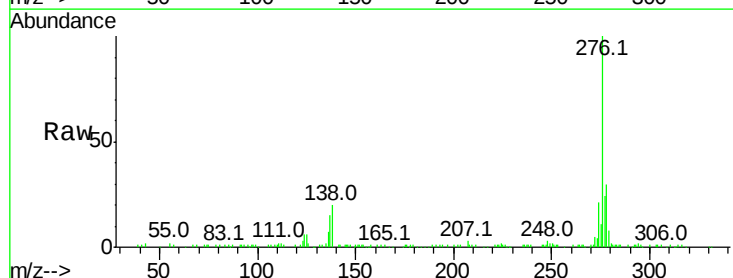
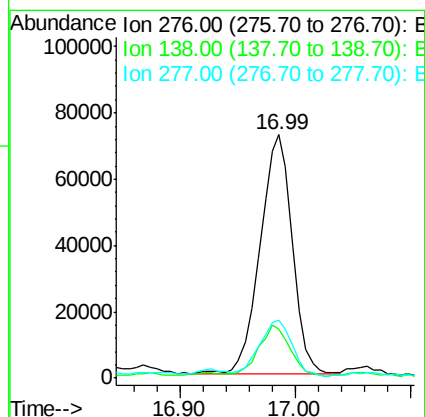
Manual Integrations
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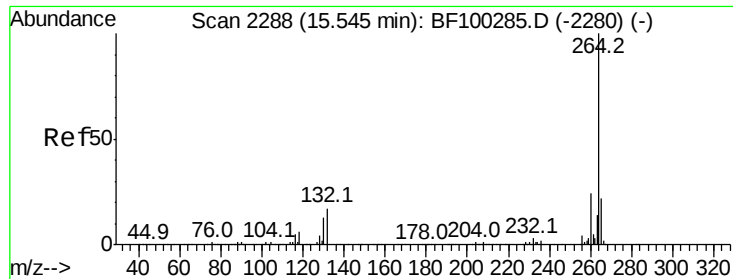
Sohil
11/29/2017 4:29:06 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 21.740 ng
RT: 16.99 min Scan# 2533
Delta R.T. 0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion:	276	Resp:	139343
Ion Ratio	Lower	Upper	
276	100		
138	21.1	25.0	37.6#
277	23.8	20.1	30.1





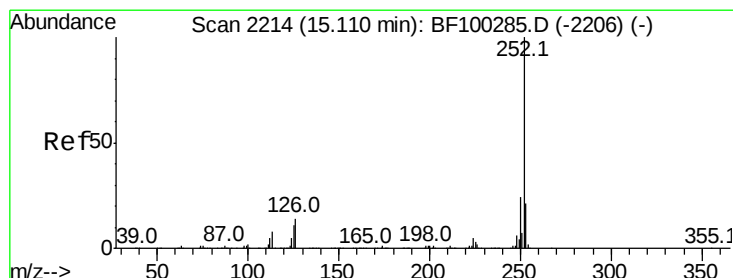
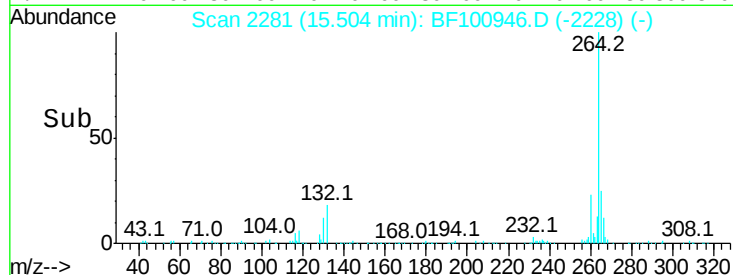
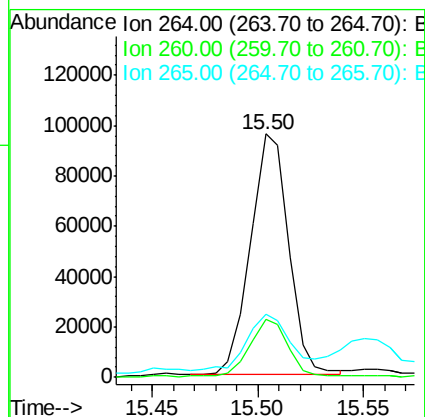
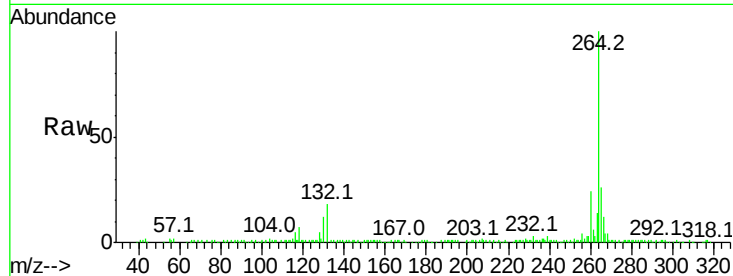
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	25.7	17.5	26.3

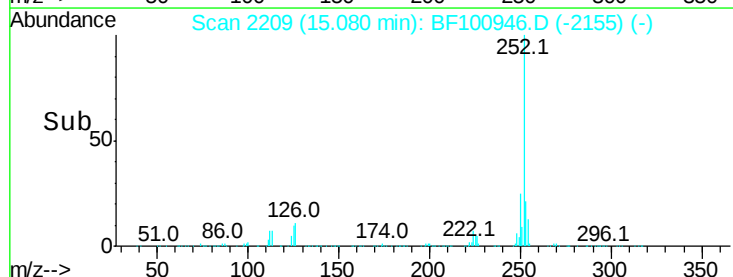
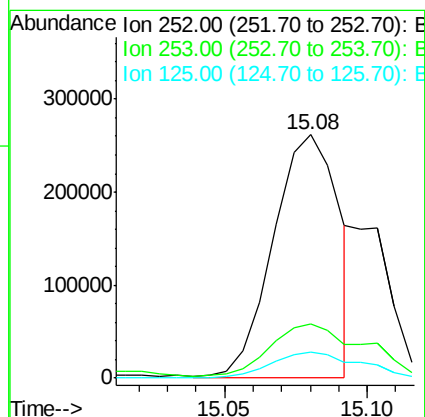
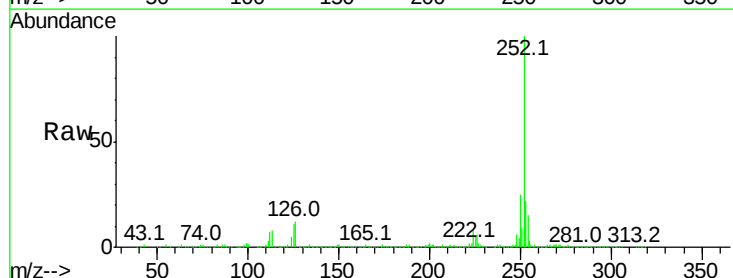
Manual Integrations
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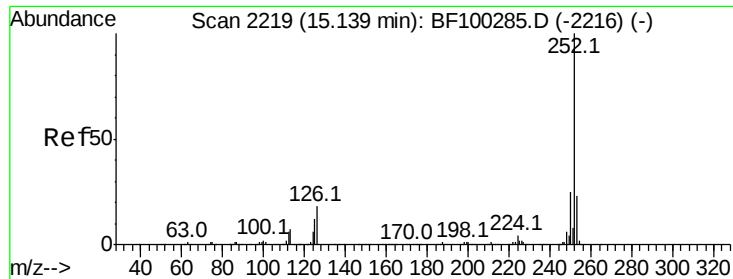
Sohil
11/29/2017 4:29:06 PM



#87
Benzo(b)fluoranthene
Concen: 58.199 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.02 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	10.6	9.0	13.6





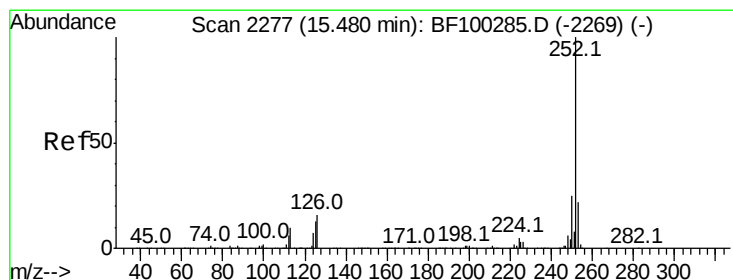
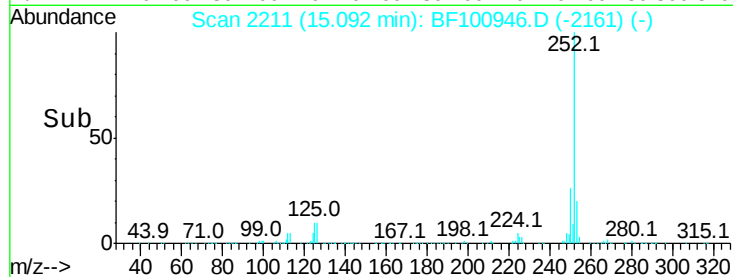
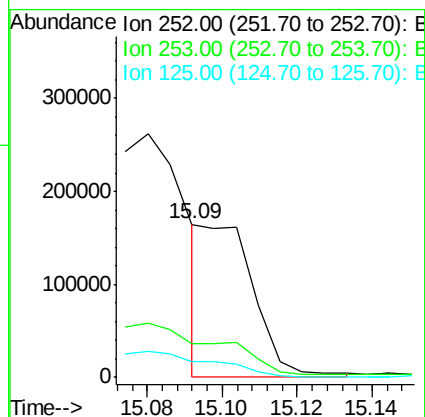
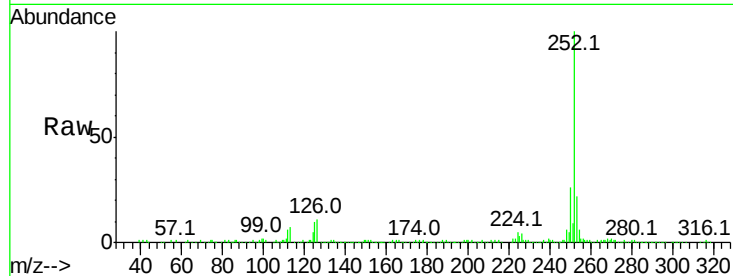
#88
Benzo(k)fluoranthene
Concen: 22.537 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	10.3	10.2	15.2

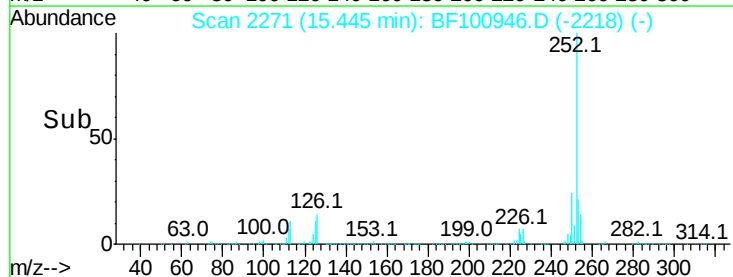
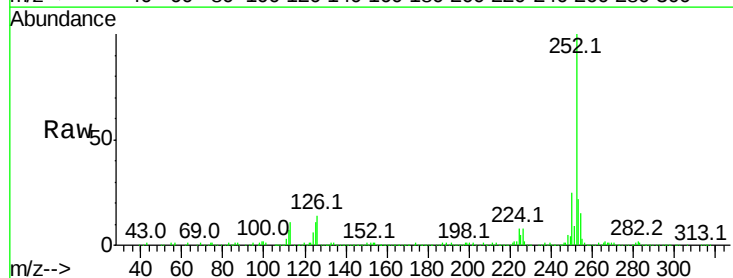
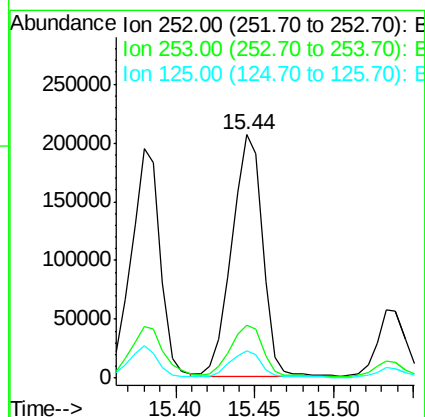
Manual Integrations
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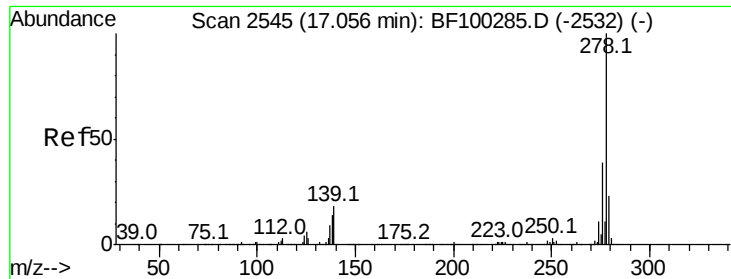
Sohil
11/29/2017 4:29:06 PM



#89
Benzo(a)pyrene
Concen: 43.732 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	11.0	9.8	14.6





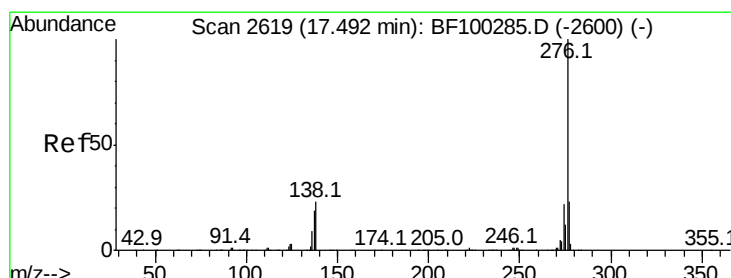
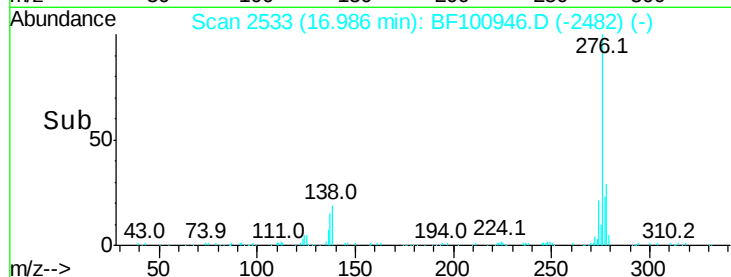
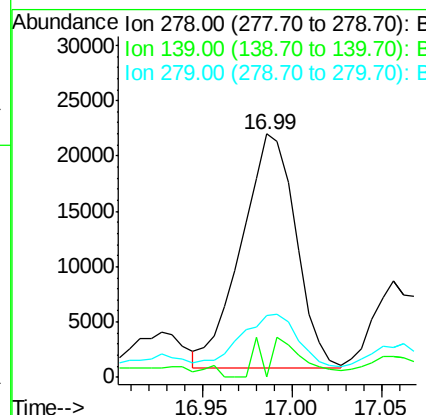
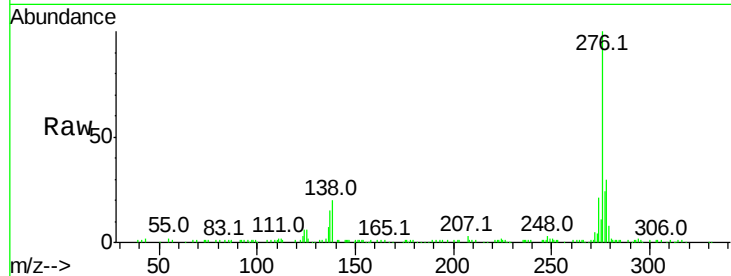
#90
Dibenzo(a,h)anthracene
Concen: 8.649 ng m
RT: 16.99 min Scan# 2533
Delta R.T. -0.00 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

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

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	25.5	19.0	28.4

Manual Integrations
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Sohil
11/29/2017 4:29:06 PM



#91
Benzo(g,h,i)perylene
Concen: 28.188 ng
RT: 17.44 min Scan# 2610
Delta R.T. 0.02 min
Lab File: BF100946.D
Acq: 28 Nov 2017 20:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	20.8	21.8	32.8#

