

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
 Data File : BF103897.D
 Acq On : 23 Mar 2018 23:37
 Operator : JU/SJ
 Sample : J1996-04 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB43 BOT-SE 5

Manual Integrations
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 3/26/2018 4:33:35 PM

Quant Time: Mar 24 02:12:37 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	120817	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	457955	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	175594	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	255780	20.00	ng	0.00
75) Chrysene-d12	14.17	240	198470	20.00	ng	0.00
86) Perylene-d12	15.72	264	167131	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.59	112	26472	3.33	ng	0.00
7) Phenol-d6	6.59	99	33407	3.44	ng	-0.01
23) Nitrobenzene-d5	7.53	82	16301	2.48	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	5455	3.61	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	32720	2.97	ng	0.00
78) Terphenyl-d14	13.09	244	26772	3.13	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.28	128	286307	12.376	ng	99
37) 2-Methylnaphthalene	8.97	142	67149	4.577	ng	99
48) Acenaphthylene	9.88	152	502812	27.882	ng	99
51) Acenaphthene	10.05	154	34253	3.199	ng	97
54) Dibenzofuran	10.22	168	72345	4.731	ng	98
57) Fluorene	10.57	166	111881	9.428	ng	97
70) Phenanthrene	11.54	178	631901	45.162	ng	98
71) Anthracene	11.59	178	301412	21.210	ng	99
72) Carbazole	11.74	167	42703	3.092	ng	99
74) Fluoranthene	12.74	202	1230542	85.367	ng	99
77) Pyrene	12.97	202	1294111	88.787	ng	99
80) Benzo(a)anthracene	14.16	228	687831m	54.750	ng	
82) Chrysene	14.20	228	655494	54.735	ng	98
85) Indeno(1,2,3-cd)pyrene	17.31	276	392482m	37.528	ng	
87) Benzo(b)fluoranthene	15.26	252	875878m	82.951	ng	
88) Benzo(k)fluoranthene	15.29	252	239145m	23.561	ng	
89) Benzo(a)pyrene	15.66	252	641626	66.996	ng	96
90) Dibenzo(a,h)anthracene	17.32	278	102166	12.320	ng	96
91) Benzo(a,h,i)perylene	17.79	276	395793	49.060	ng	96

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

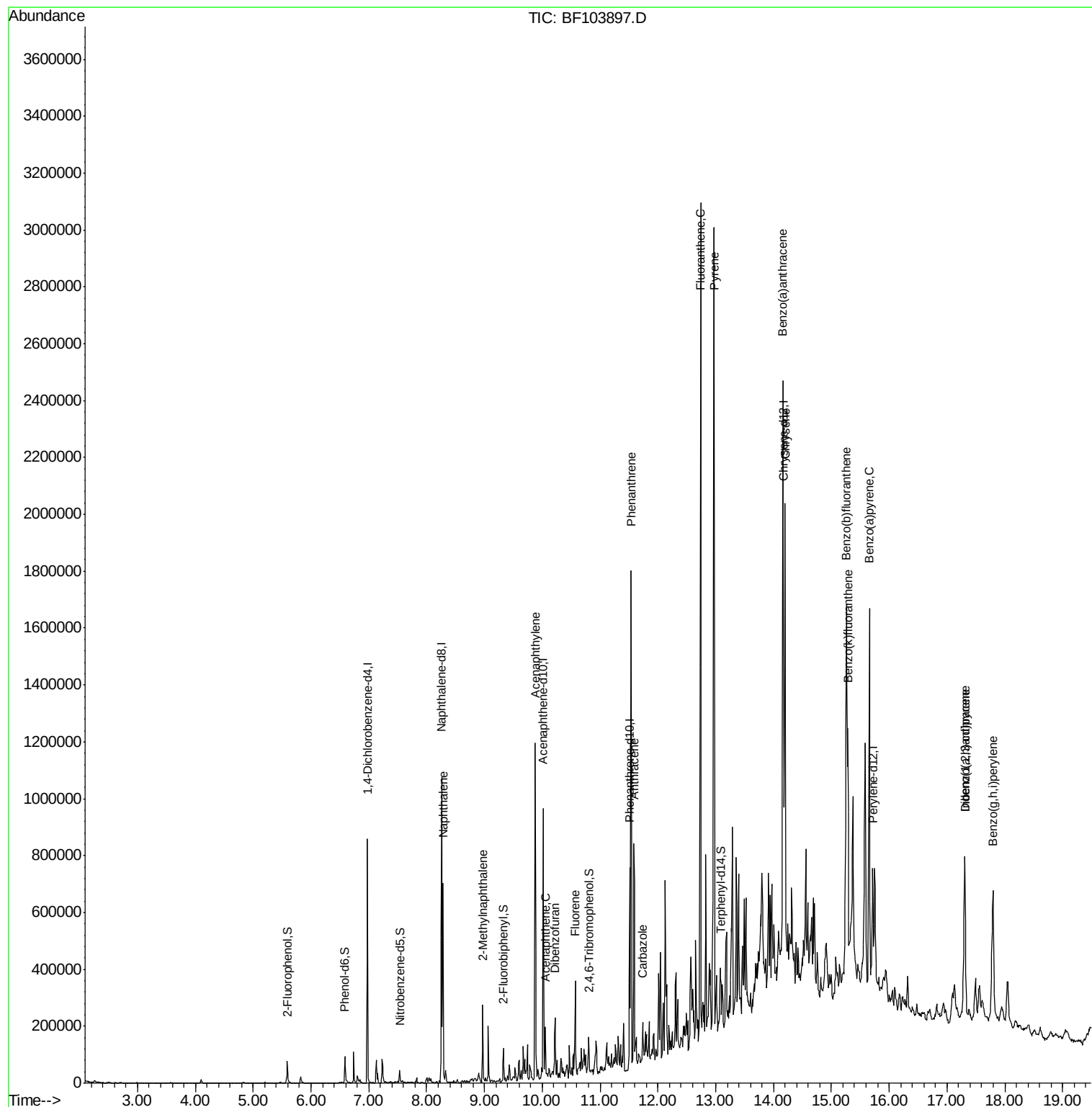
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
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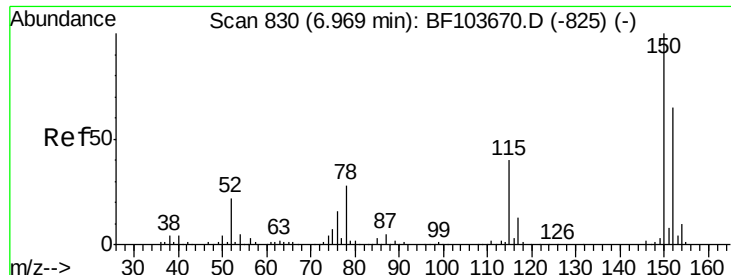
Instrument :
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#1

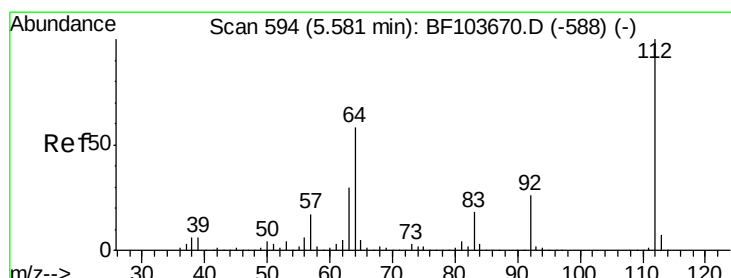
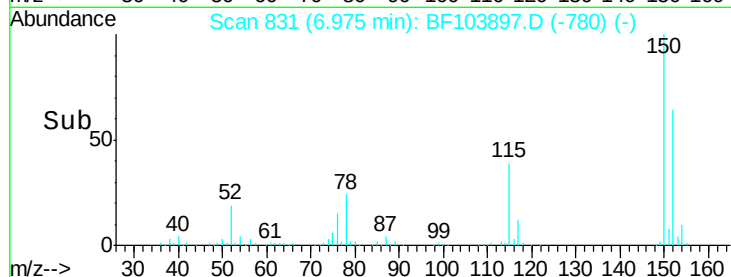
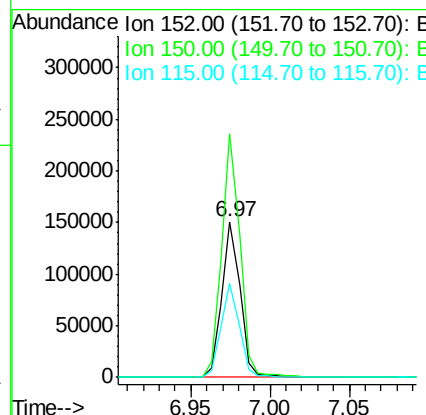
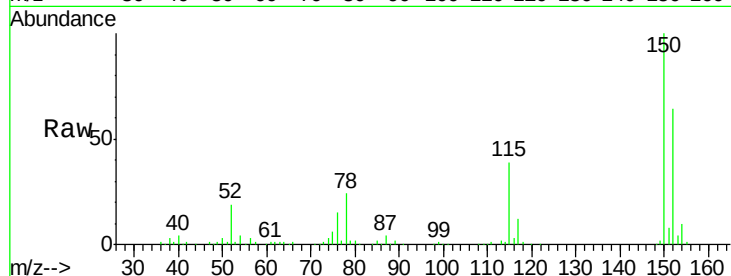
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	124.6	186.8
115	60.3	50.1	75.1

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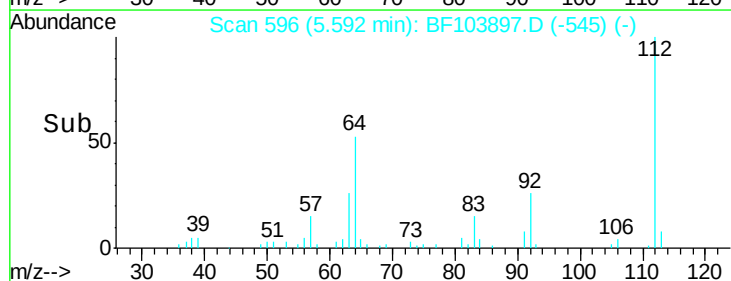
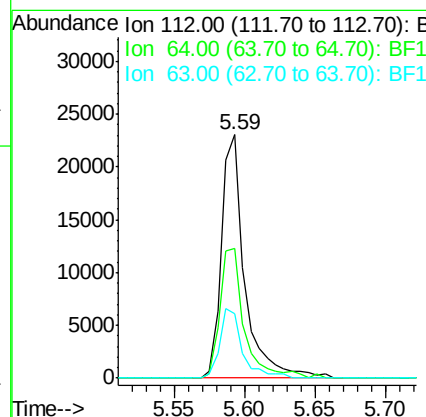
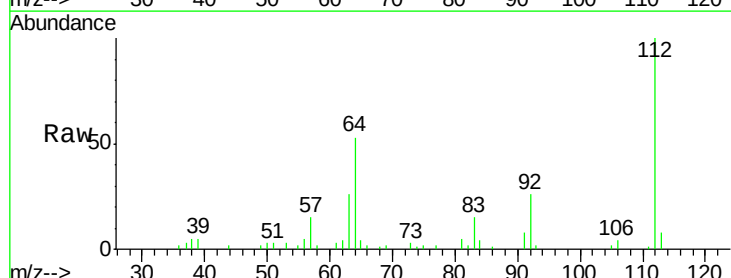
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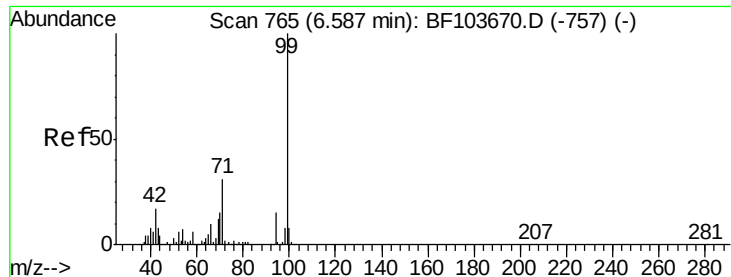


#5

2-Fluorophenol
Concen: 3.333 ng
RT: 5.59 min Scan# 596
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	47.9	71.9
63	26.2	23.7	35.5





#7

Phenol-d6

Concen: 3.438 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103897.D

Acq: 23 Mar 2018 23:37

Instrument :

BNA_F

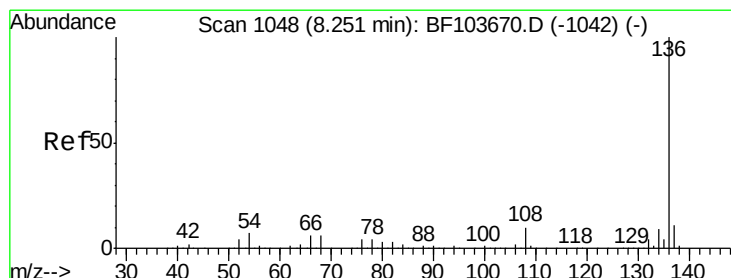
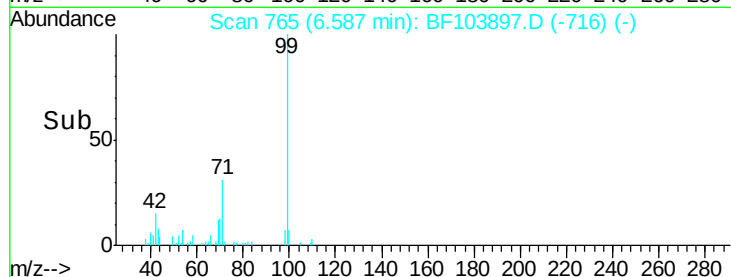
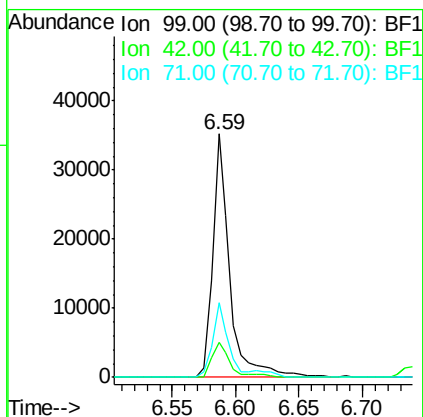
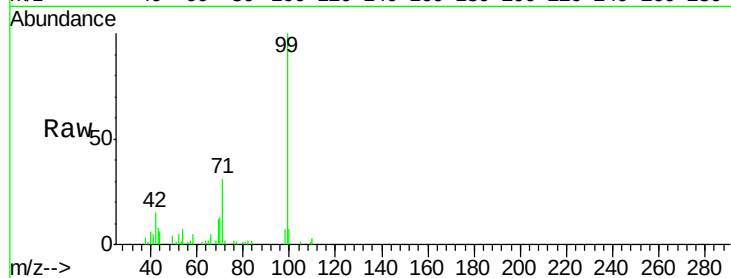
ClientSampleId :

A2_SB43_BOT-SE_5

Tot Ion:	99	Resp:	33407
Ion	Ratio	Lower	Upper
99	100		
42	14.6	14.5	21.7
71	30.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

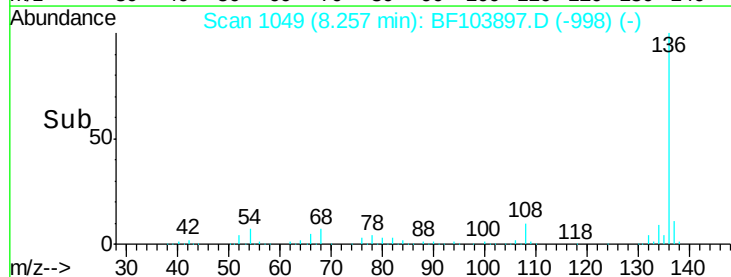
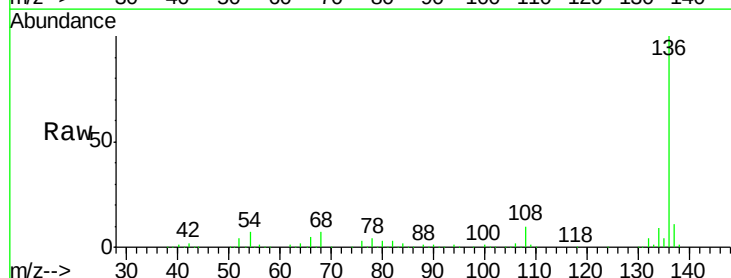
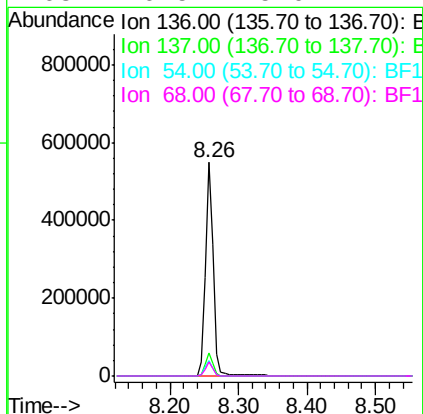
RT: 8.26 min Scan# 1049

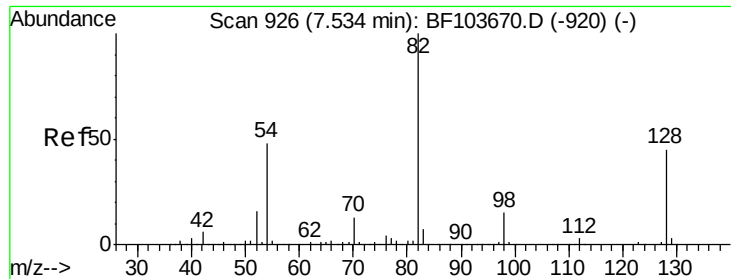
Delta R.T. -0.00 min

Lab File: BF103897.D

Acq: 23 Mar 2018 23:37

Tgt Ion:	136	Resp:	457955
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.1	6.6	9.8
68	6.5	5.0	7.4





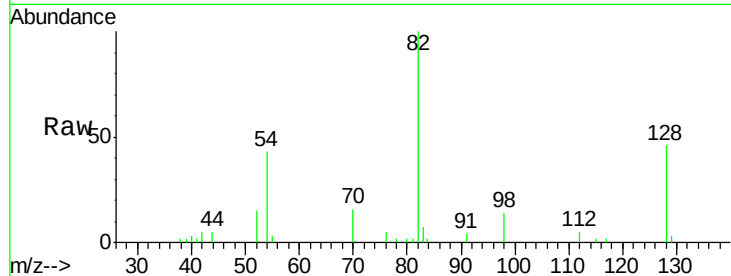
#23
Nitrobenzene-d5
Concen: 2.482 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

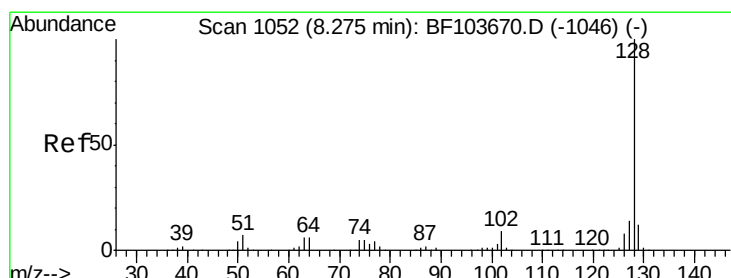
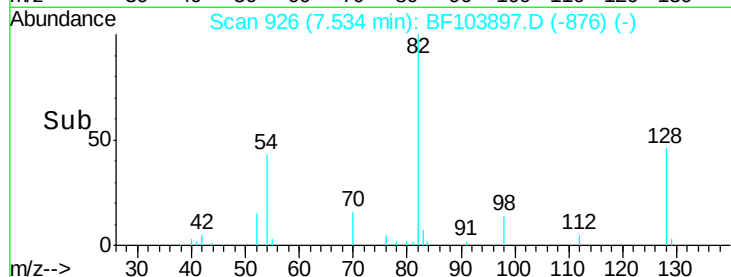
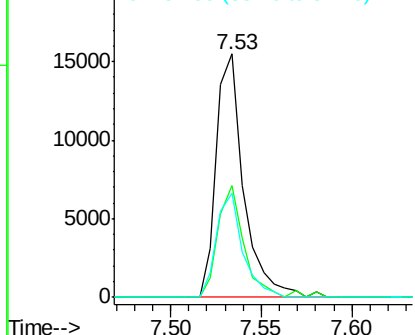
Tot Ion	Ratio	Lower	Upper
82	100		
128	46.1	36.1	54.1
54	42.6	41.4	62.2

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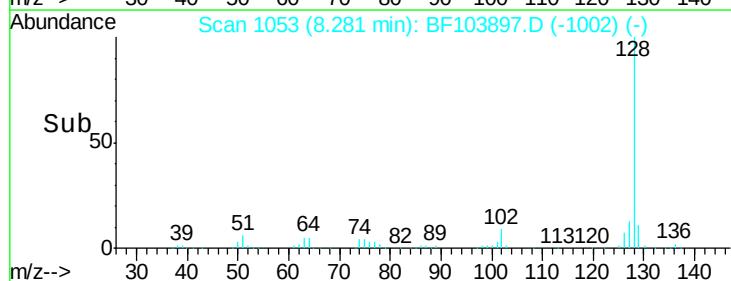
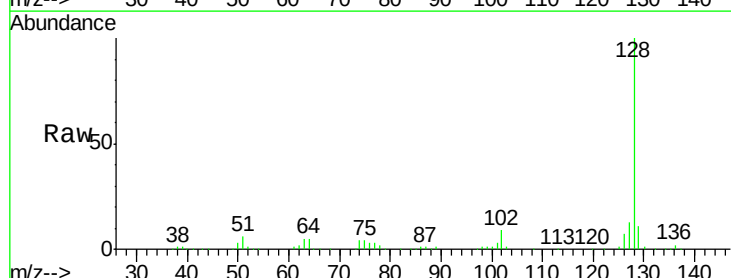
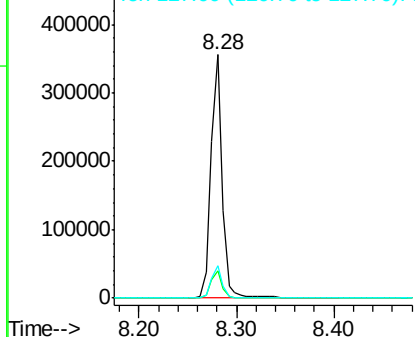
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Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

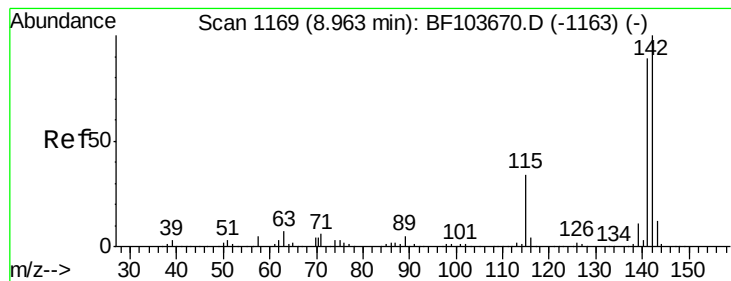


#31
Naphthalene
Concen: 12.376 ng
RT: 8.28 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.3	10.9	16.3

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





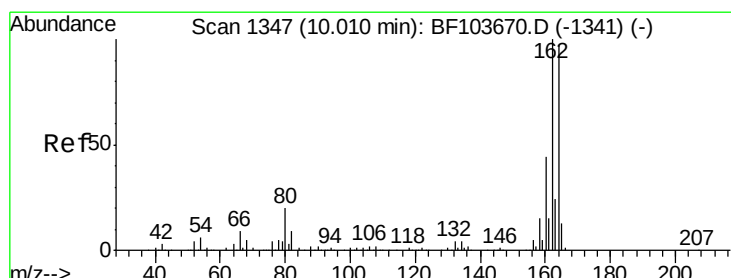
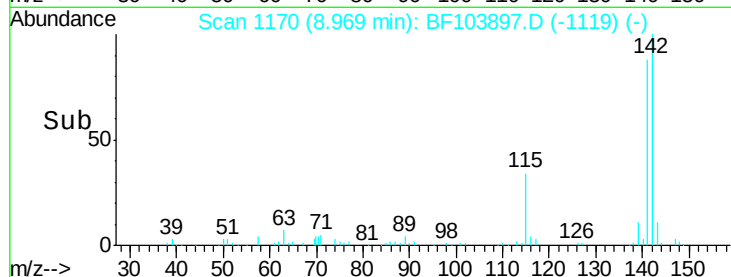
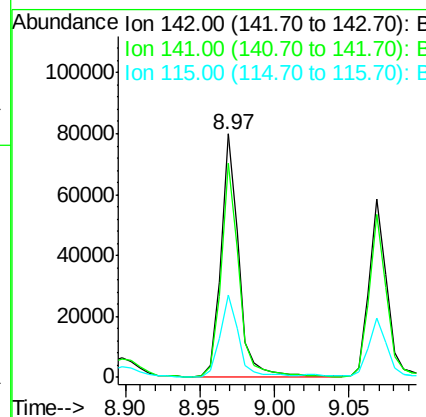
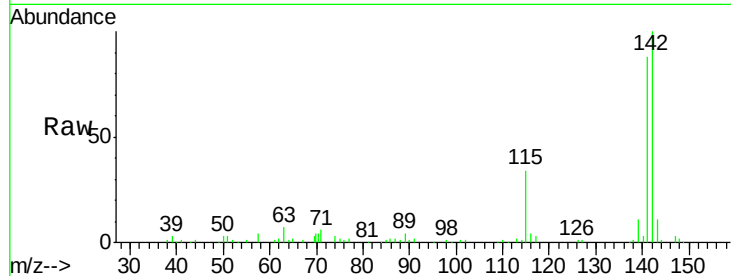
#37
 2-Methylnaphthalene
 Concen: 4.577 ng
 RT: 8.97 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: BF103897.D
 Acq: 23 Mar 2018 23:37

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.8	106.2
115	33.9	26.1	39.1

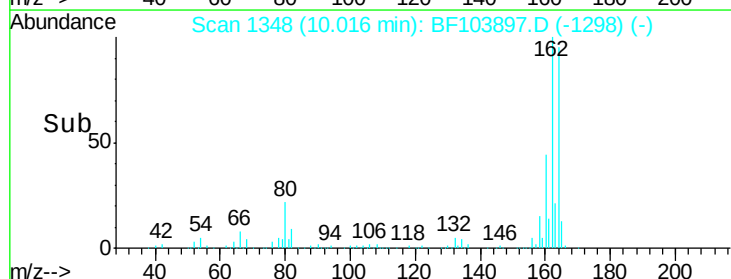
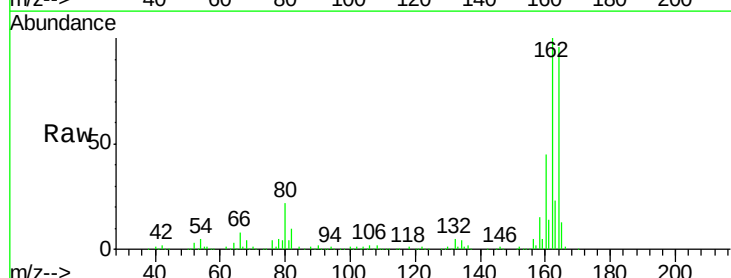
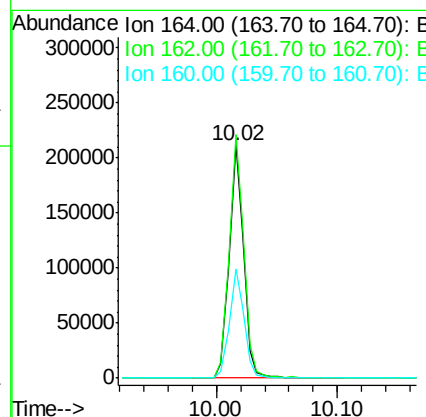
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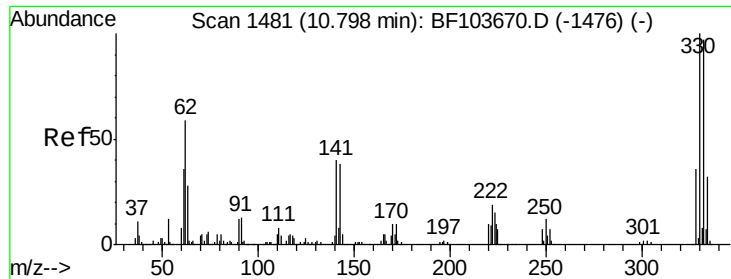
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.02 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: BF103897.D
 Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	86.1	129.1
160	46.7	38.3	57.5





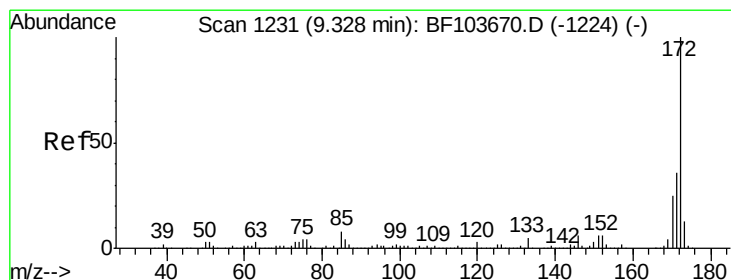
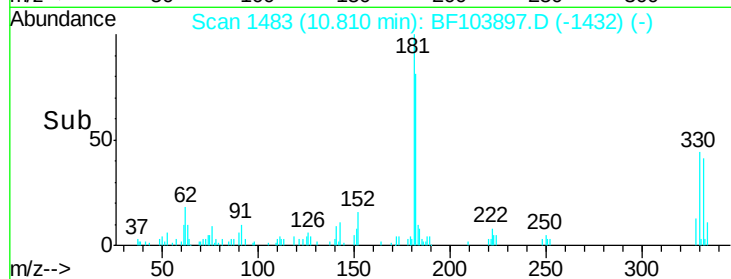
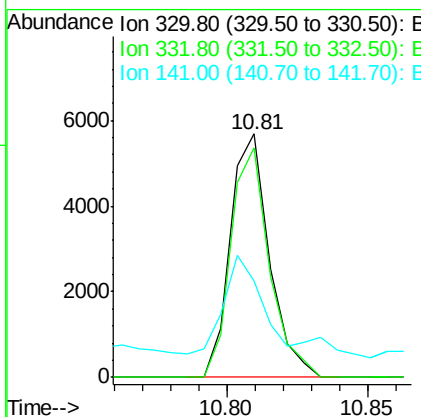
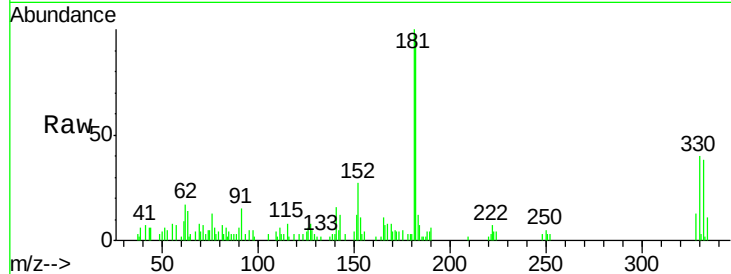
#41
 2,4,6-Tribromophenol
 Concen: 3.613 ng
 RT: 10.81 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: BF103897.D
 Acq: 23 Mar 2018 23:37

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.4	77.0	115.6
141	49.0	29.9	44.9

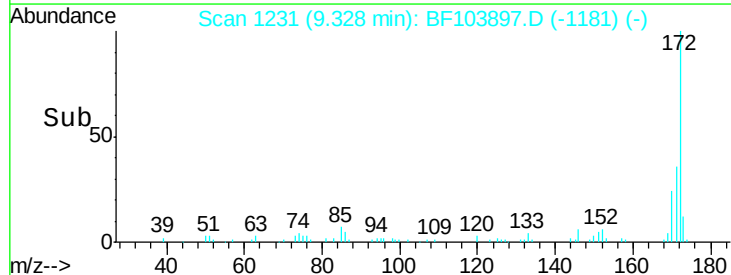
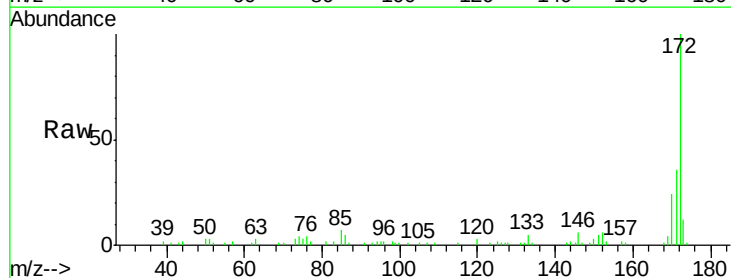
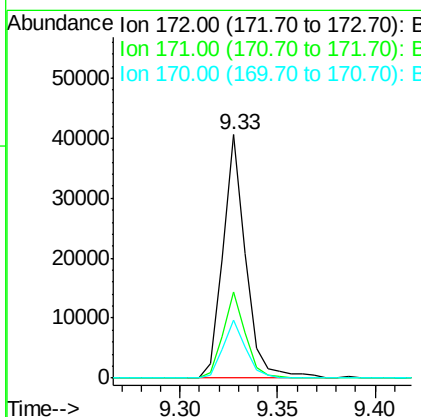
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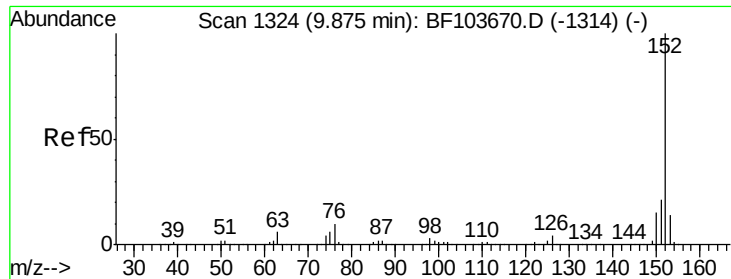
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#44
 2-Fluorobiphenyl
 Concen: 2.972 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103897.D
 Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.7	44.5
170	23.6	19.6	29.4





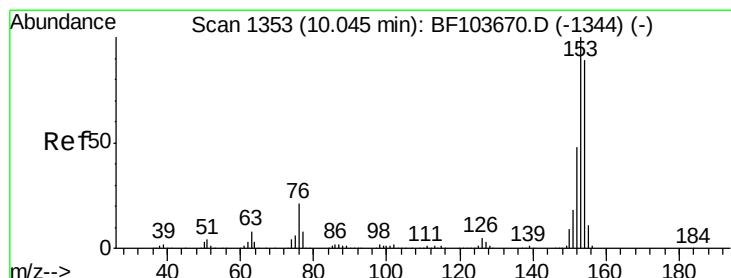
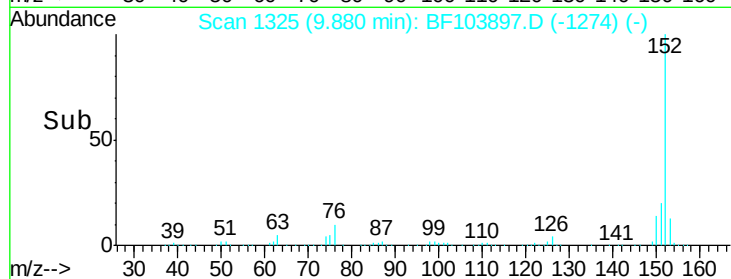
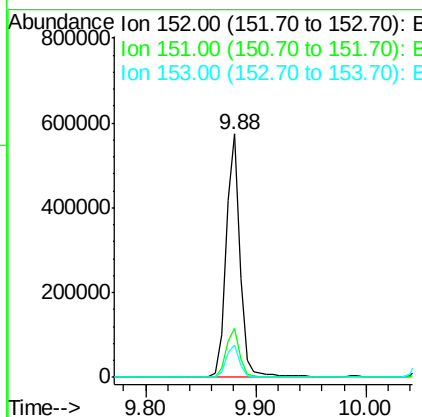
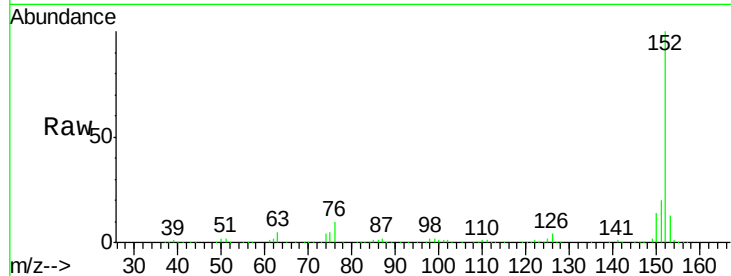
#48
Acenaphthylene
Concen: 27.882 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

Tot Ion	Ratio	Resp	Lower	Upper
152	100	502812		
151	20.1		16.3	24.5
153	13.2		10.7	16.1

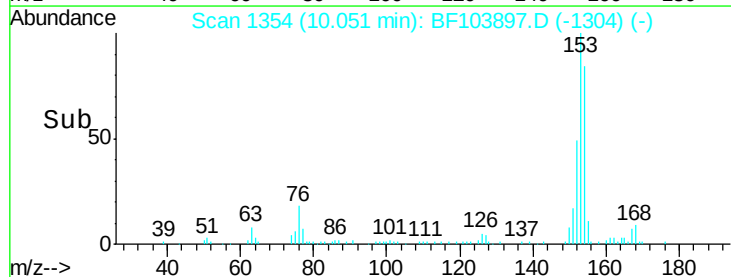
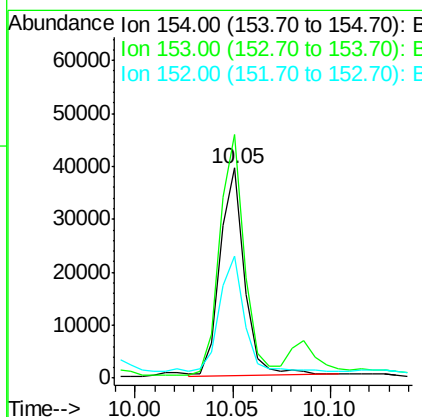
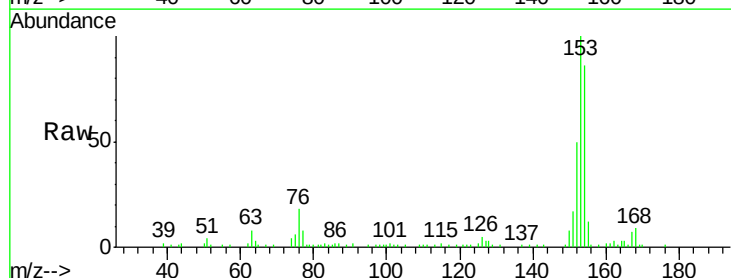
Manual Integrations
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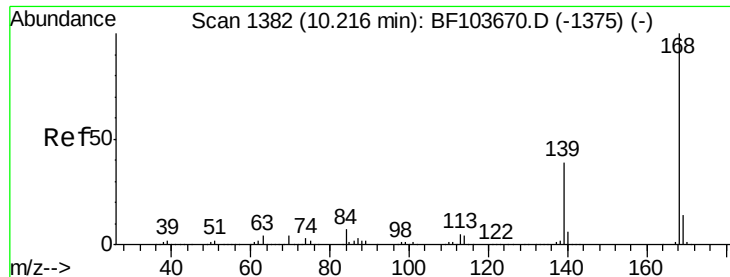
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#51
Acenaphthene
Concen: 3.199 ng
RT: 10.05 min Scan# 1354
Delta R.T. -0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	34253		
153	116.1		91.2	136.8
152	58.3		43.8	65.8





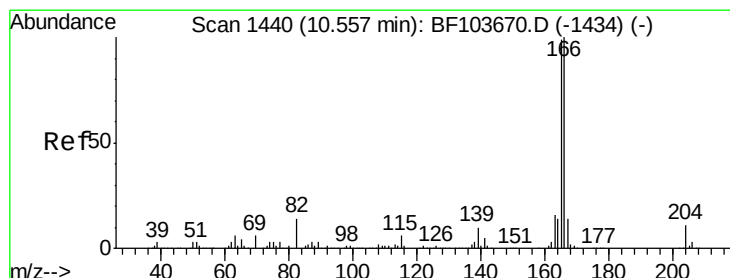
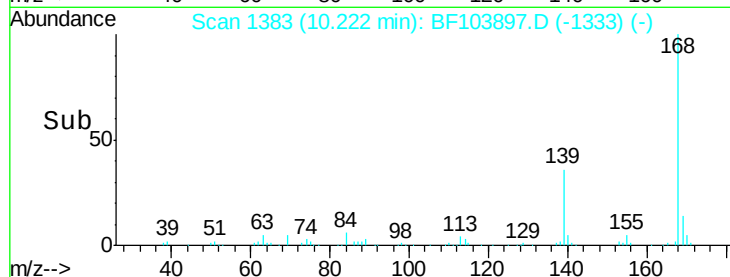
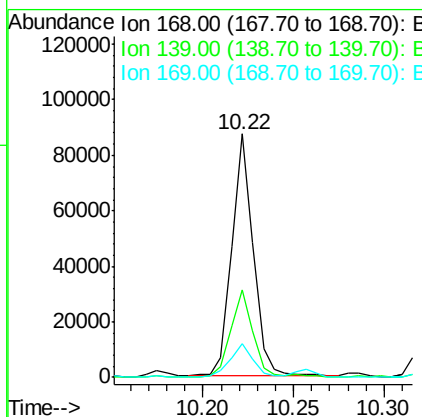
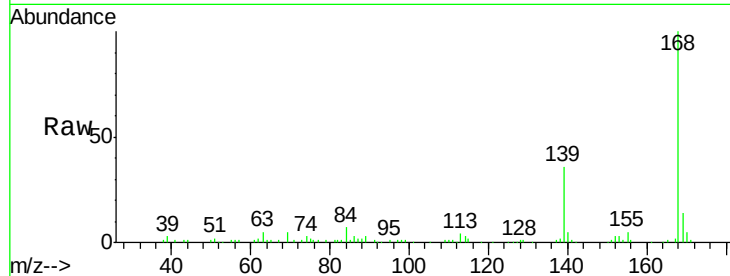
#54
Dibenzenofuran
Concen: 4.731 ng
RT: 10.22 min Scan# 1383
Delta R.T. -0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.0	30.1	45.1
169	13.8	10.9	16.3

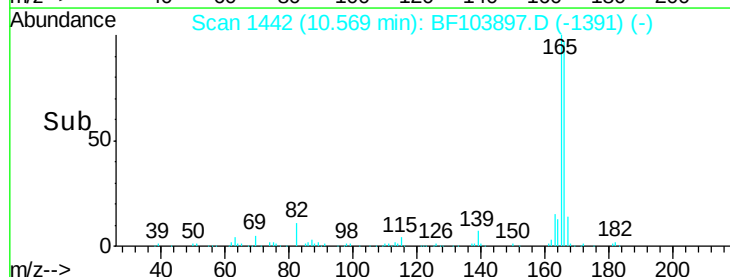
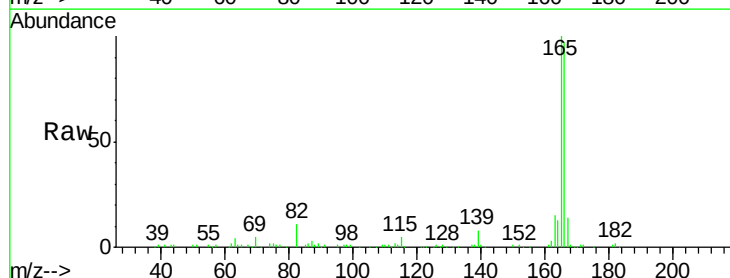
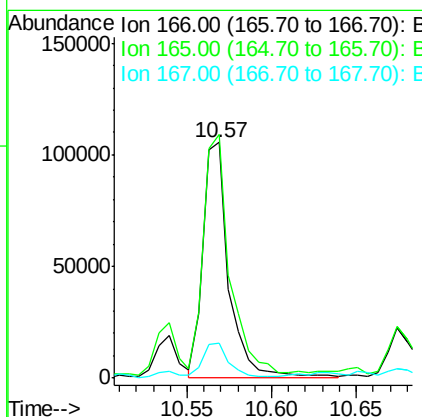
Manual Integrations
APPROVED

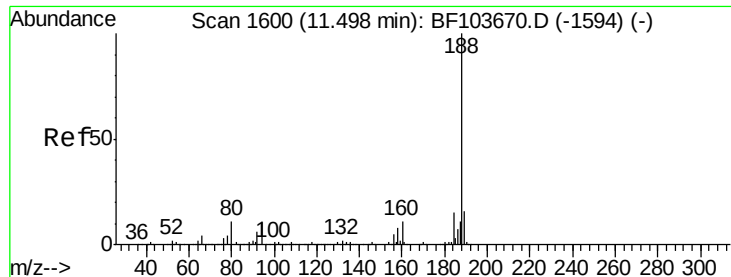
Sohil
3/26/2018 4:33:35 PM



#57
Fluorene
Concen: 9.428 ng
RT: 10.57 min Scan# 1442
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.3	79.8	119.8
167	14.7	10.6	16.0





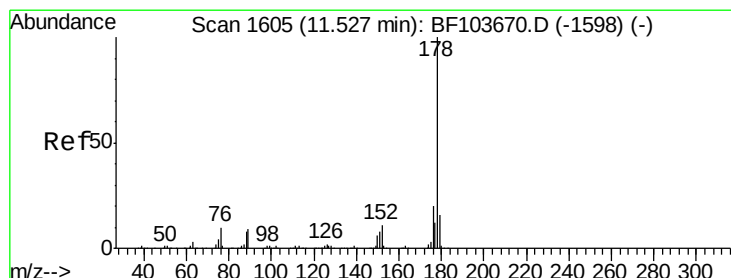
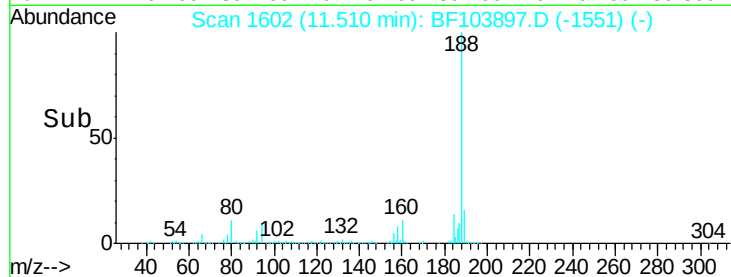
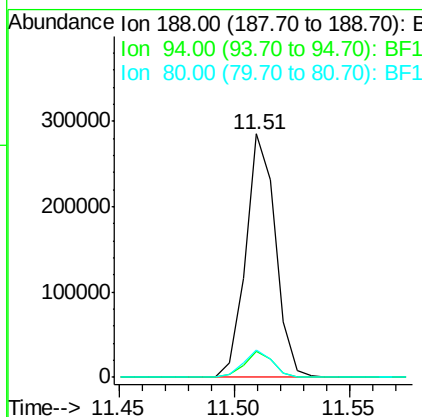
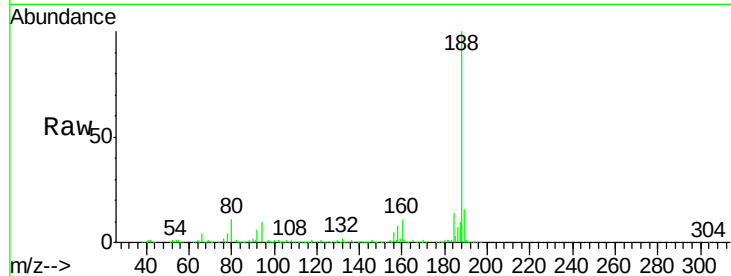
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1602
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

Tot Ion	Ratio	Resp	Lower	Upper
188	100	255780		
94	10.5		8.5	12.7
80	11.4		9.2	13.8

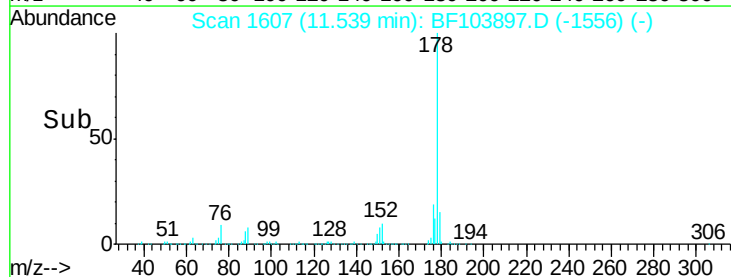
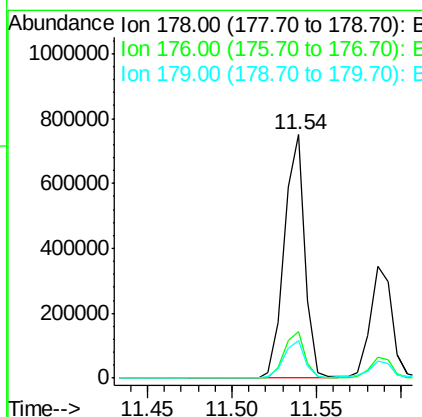
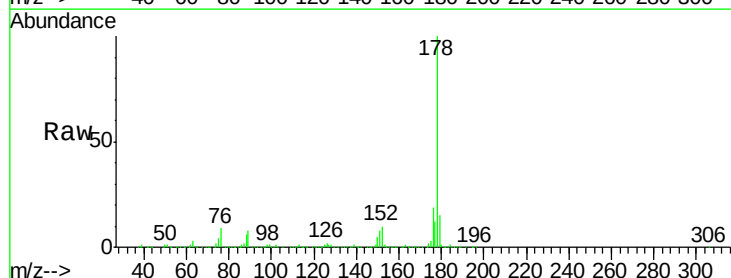
Manual Integrations
APPROVED

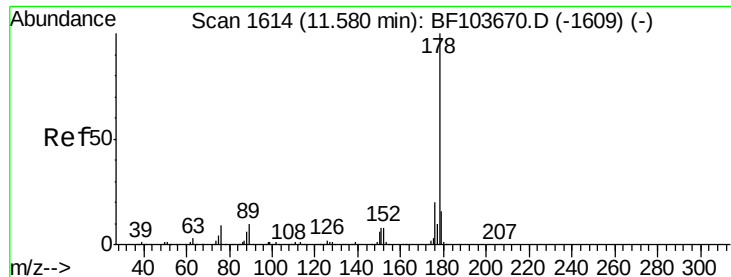
Sohil
3/26/2018 4:33:35 PM



#70
Phenanthrene
Concen: 45.162 ng
RT: 11.54 min Scan# 1607
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	631901		
176	19.3		15.8	23.8
179	15.3		13.0	19.6





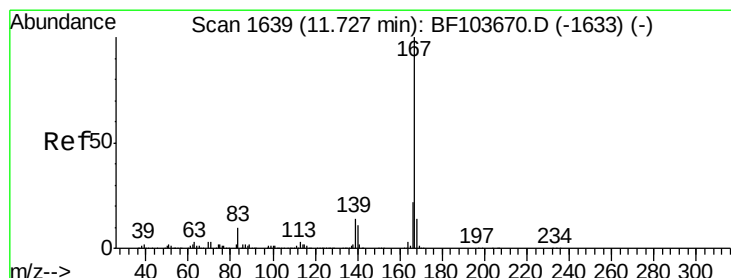
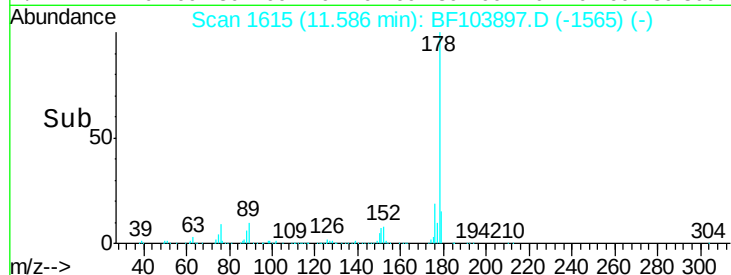
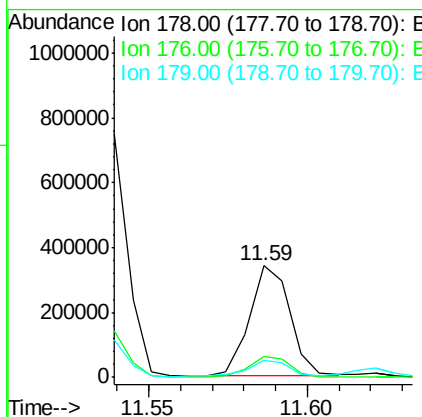
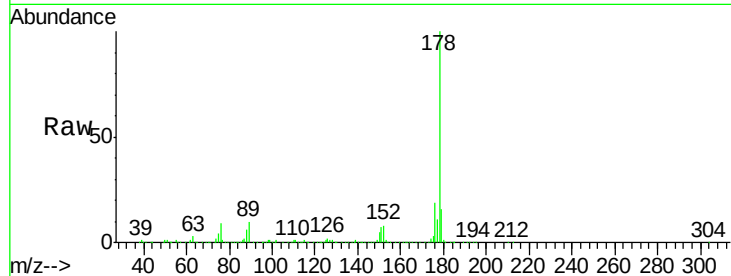
#71
 Anthracene
 Concen: 21.210 ng
 RT: 11.59 min Scan# 1615
 Delta R.T. -0.01 min
 Lab File: BF103897.D
 Acq: 23 Mar 2018 23:37

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.7	12.6	19.0

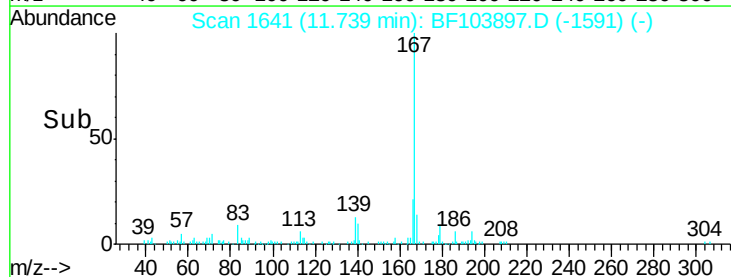
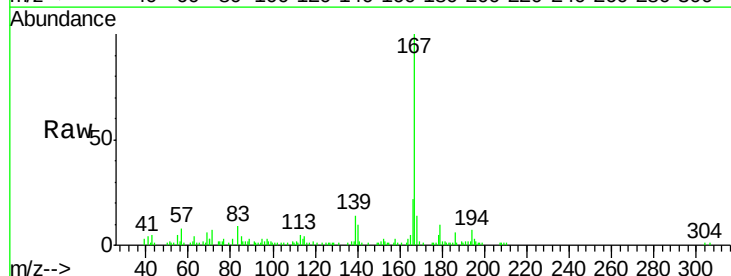
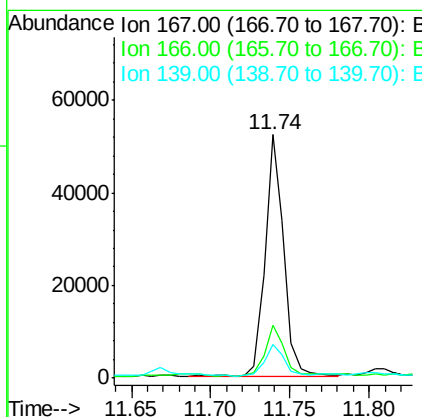
Manual Integrations
 APPROVED

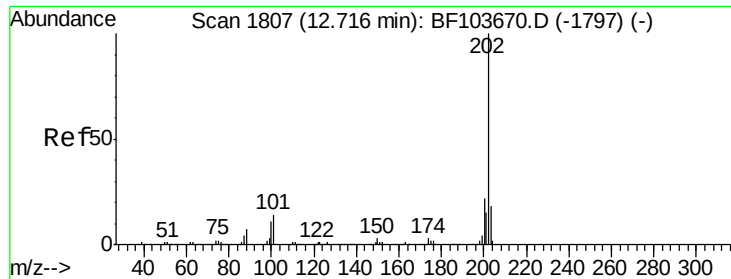
Sohil
 3/26/2018 4:33:35 PM



#72
 Carbazole
 Concen: 3.092 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. -0.01 min
 Lab File: BF103897.D
 Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.6	26.4
139	14.0	10.9	16.3





#74

Fluoranthene

Concen: 85.367 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.01 min

Lab File: BF103897.D

Acq: 23 Mar 2018 23:37

Instrument :

BNA_F

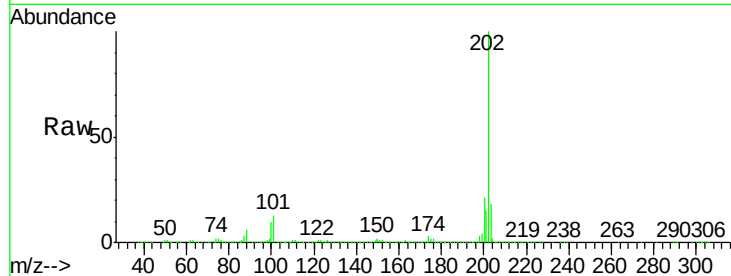
ClientSampleId :

A2_SB43_BOT-SE_5

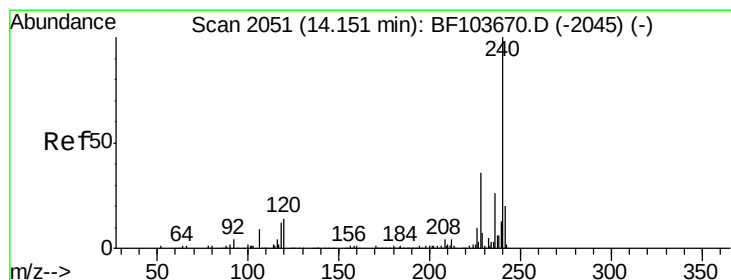
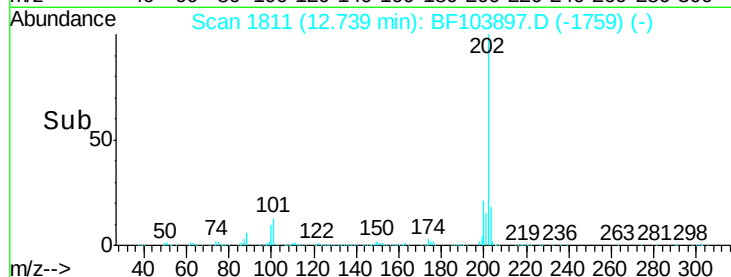
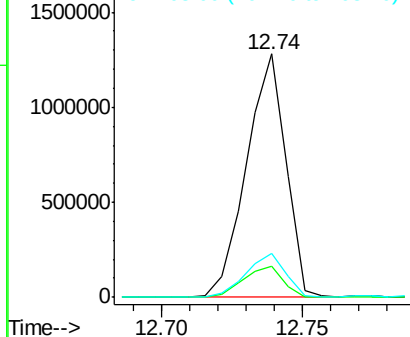
Tot Ion:	202	Resp:	1230542
Ion Ratio	Lower	Upper	
202	100		
101	13.0	0.0	34.1
203	18.2	0.0	38.1

Manual Integrations
APPROVED

Sohil
3/26/2018 4:33:35 PM



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

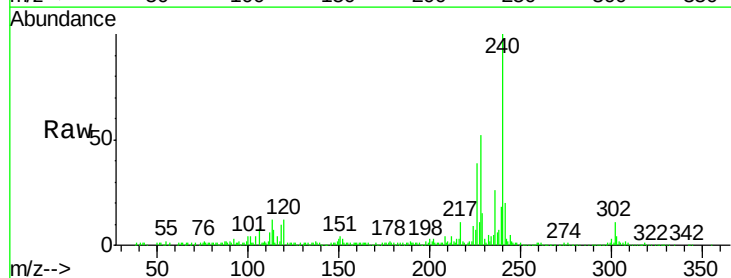
RT: 14.17 min Scan# 2055

Delta R.T. 0.01 min

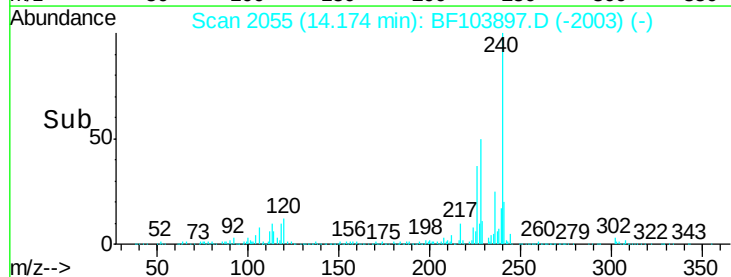
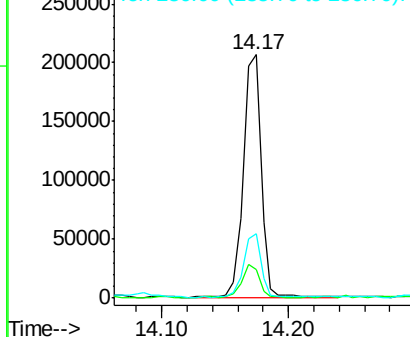
Lab File: BF103897.D

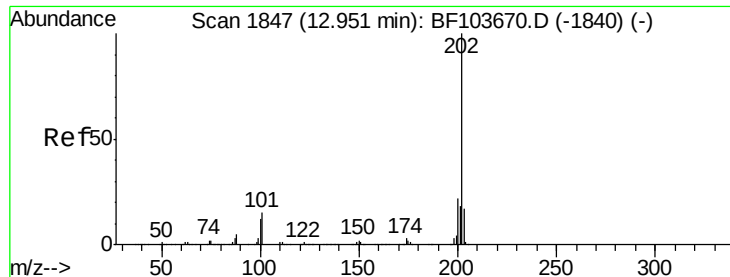
Acq: 23 Mar 2018 23:37

Tgt Ion:	240	Resp:	198470
Ion Ratio	Lower	Upper	
240	100		
120	11.9	9.5	14.3
236	26.4	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





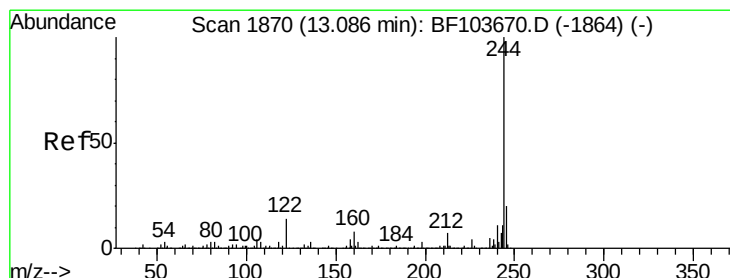
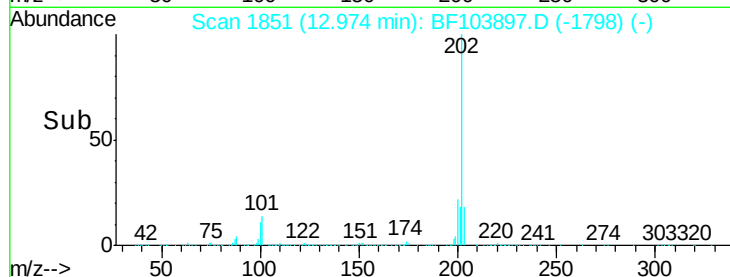
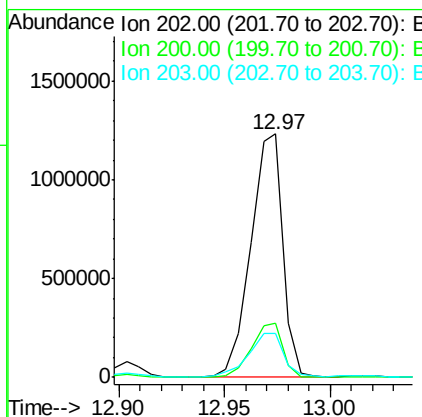
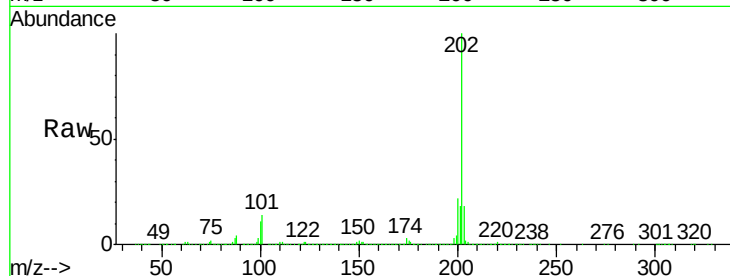
#77
Pvrene
Concen: 88.787 ng
RT: 12.97 min Scan# 1851
Delta R.T. 0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.4	26.2
203	18.2	14.3	21.5

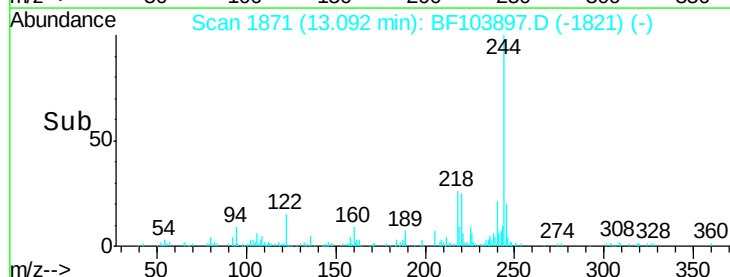
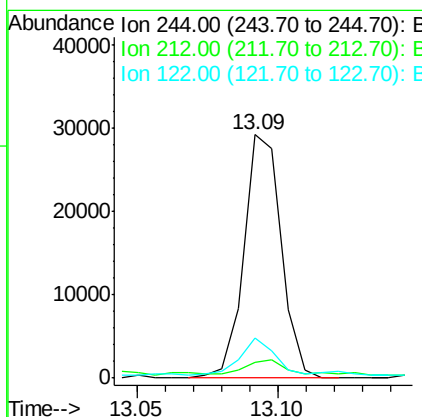
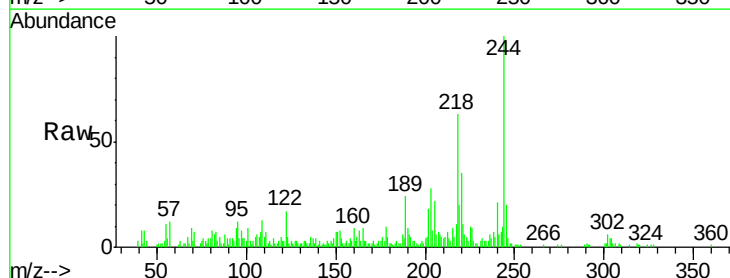
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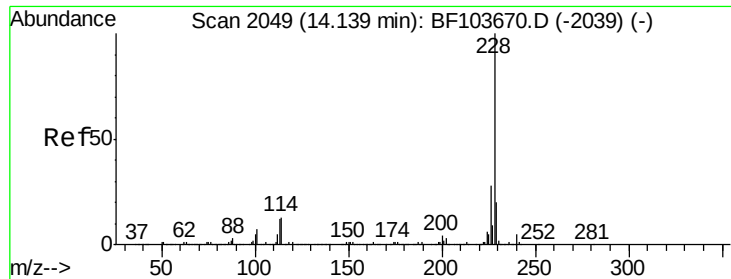
Sohil
3/26/2018 4:33:35 PM



#78
Terphenyl-d14
Concen: 3.131 ng
RT: 13.09 min Scan# 1871
Delta R.T. -0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	16.7	11.0	16.4





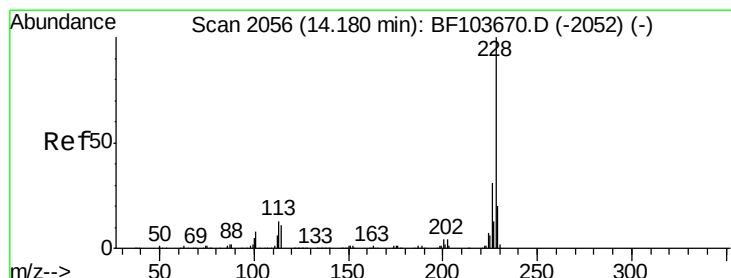
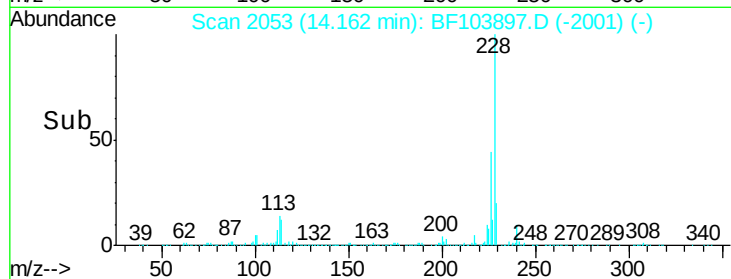
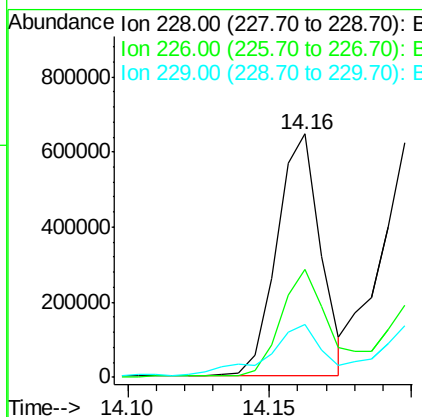
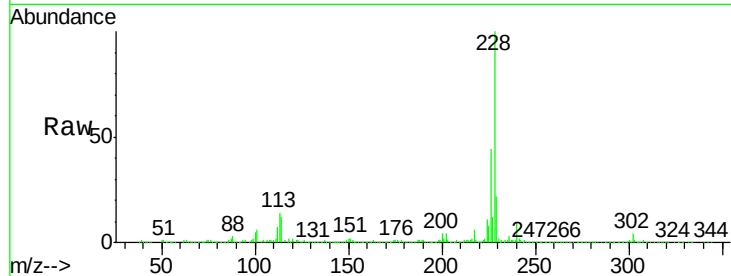
#80
Benzo(a)anthracene
Concen: 54.750 ng m
RT: 14.16 min Scan# 2053
Delta R.T. 0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
228	100		
226	44.5	22.6	33.8#
229	21.5	15.8	23.6

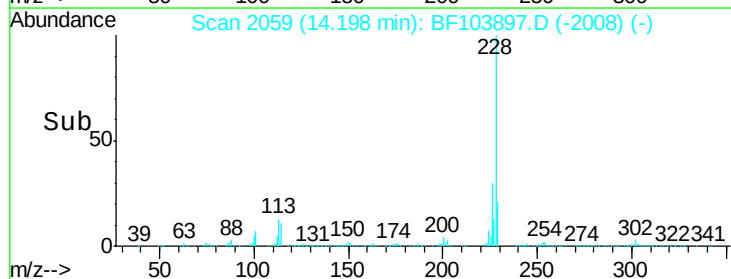
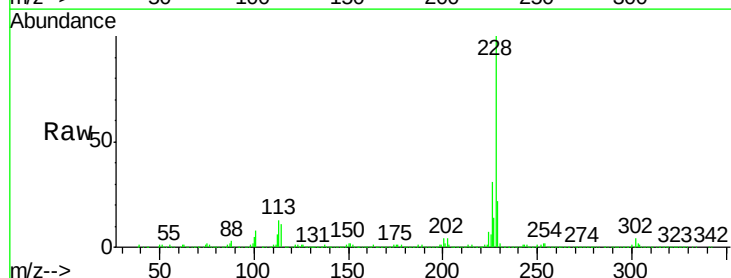
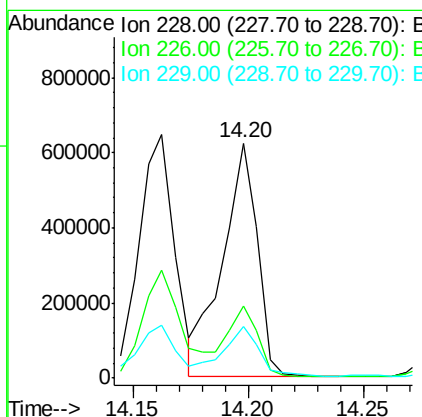
Manual Integrations
APPROVED

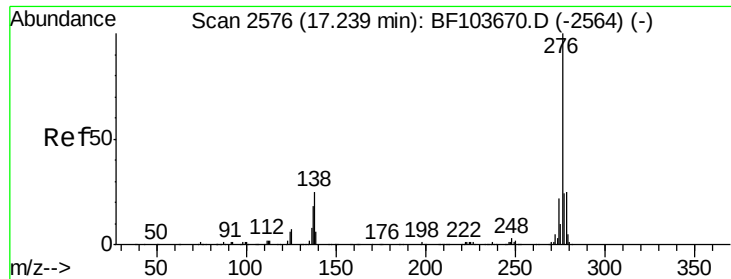
Sohil
3/26/2018 4:33:35 PM



#82
Chrysene
Concen: 54.735 ng
RT: 14.20 min Scan# 2059
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.6
229	22.2	16.2	24.4





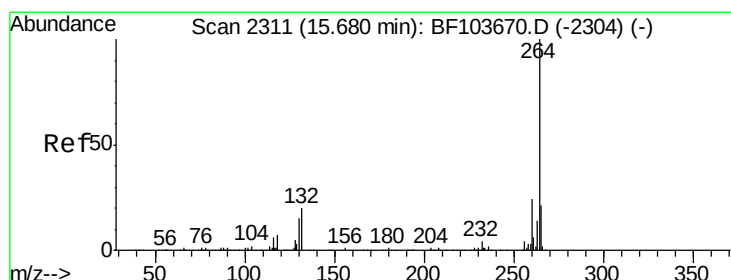
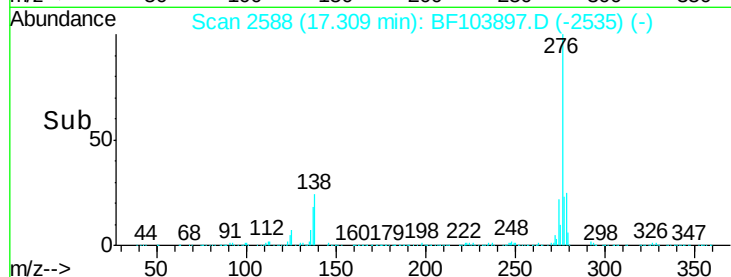
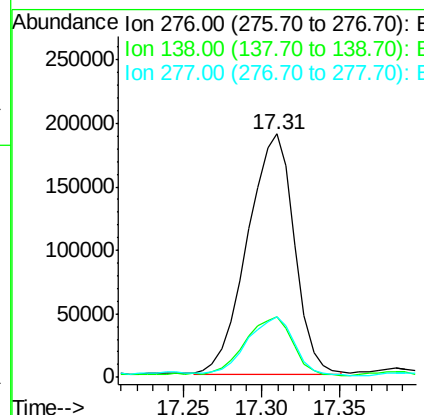
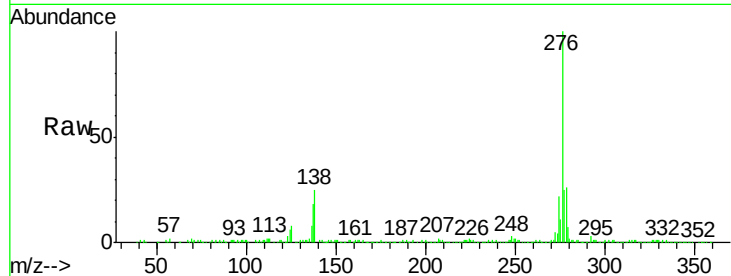
#85
Indeno(1,2,3-cd)pyrene
Concen: 37.528 ng/ml
RT: 17.31 min Scan# 2588
Delta R.T. 0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
276	100		
138	5.8	25.0	37.6#
277	5.2	20.1	30.1#

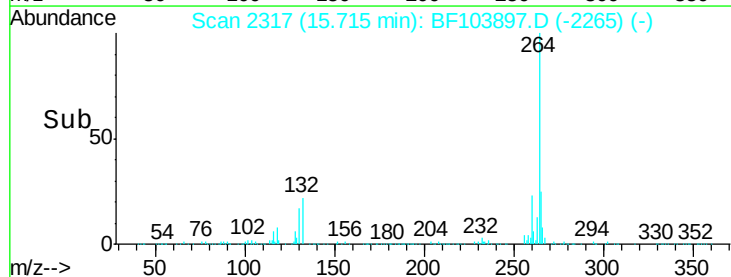
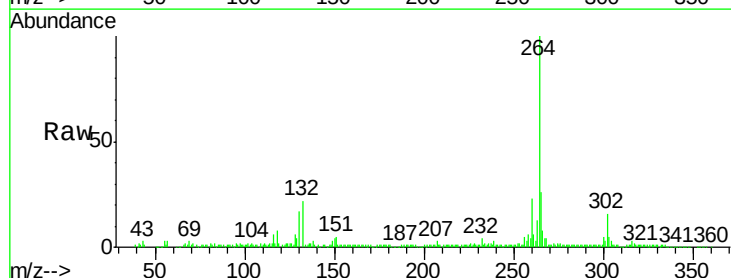
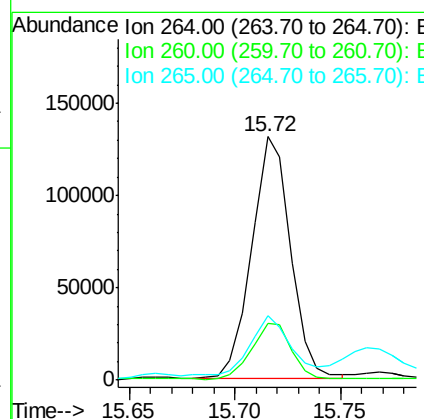
Manual Integrations
APPROVED

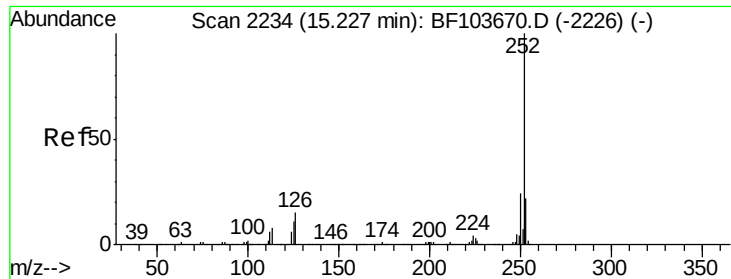
Sohil
3/26/2018 4:33:35 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2317
Delta R.T. 0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	26.2	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 82.951 ng m

RT: 15.26 min Scan# 2240

Delta R.T. 0.01 min

Lab File: BF103897.D

Acq: 23 Mar 2018 23:37

Instrument :

BNA_F

ClientSampleId :

A2_SB43_BOT-SE_5

Tot Ion:252 Resp: 875878

Ion Ratio Lower Upper

252 100

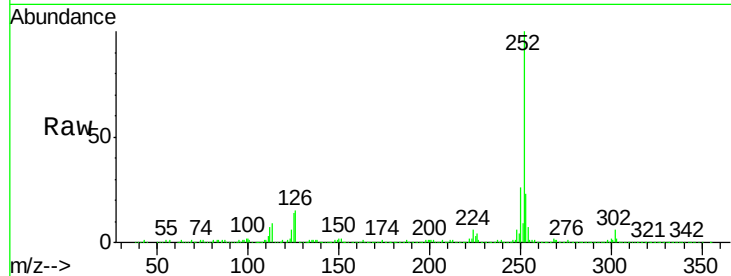
253 22.7 17.0 25.6

125 13.6 9.0 13.6#

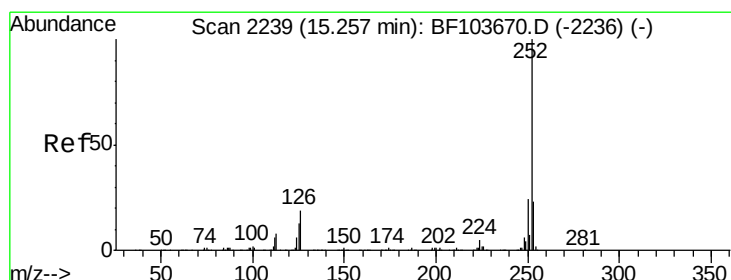
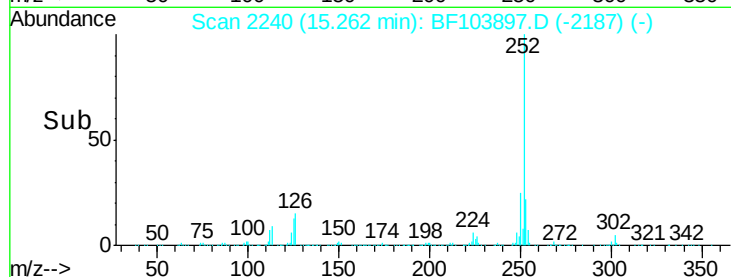
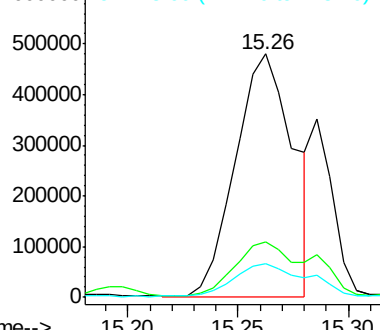
Manual Integrations
APPROVED

Sohil

3/26/2018 4:33:35 PM



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: 23.561 ng m

RT: 15.29 min Scan# 2244

Delta R.T. 0.01 min

Lab File: BF103897.D

Acq: 23 Mar 2018 23:37

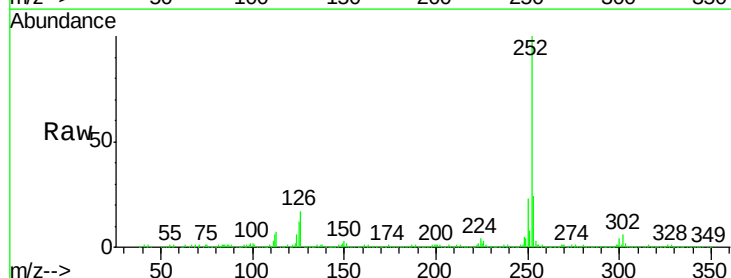
Tgt Ion:252 Resp: 239145

Ion Ratio Lower Upper

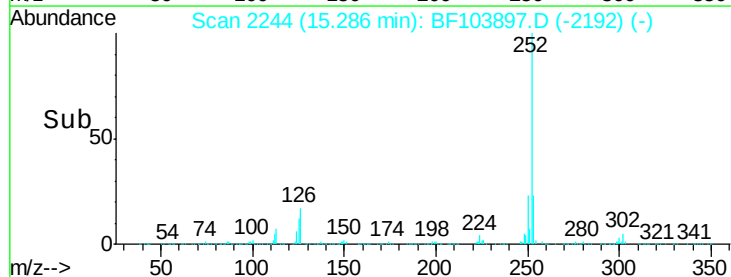
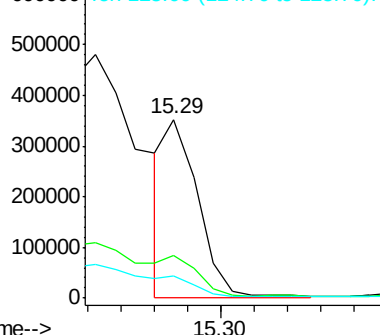
252 100

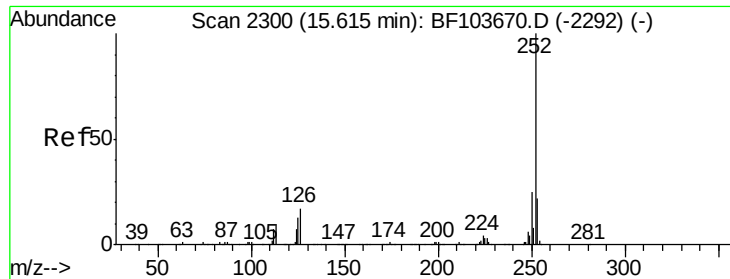
253 23.6 17.9 26.9

125 12.4 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





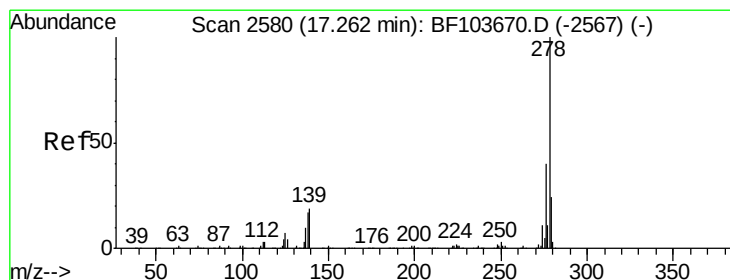
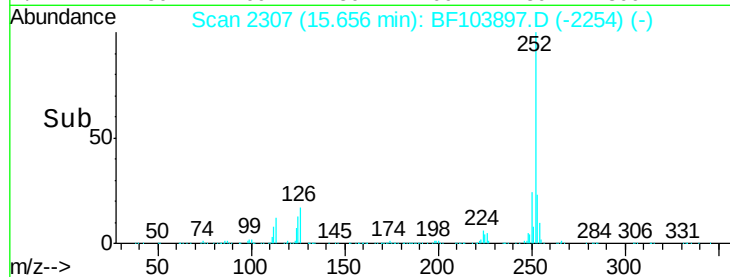
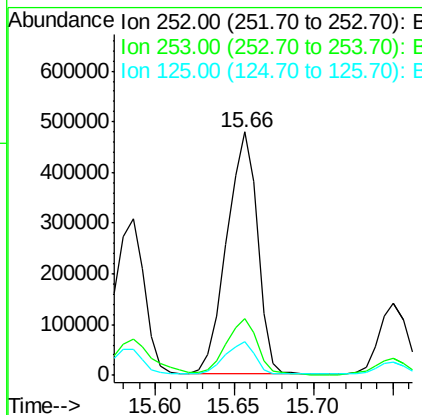
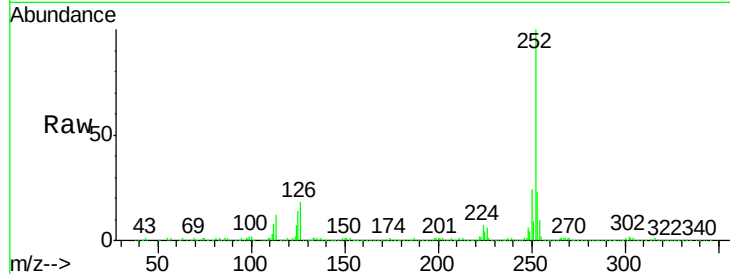
#89
Benzo(a)pyrene
Concen: 66.996 ng
RT: 15.66 min Scan# 2307
Delta R.T. 0.01 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Instrument :
BNA_F
ClientSampleId :
A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	13.7	9.8	14.6

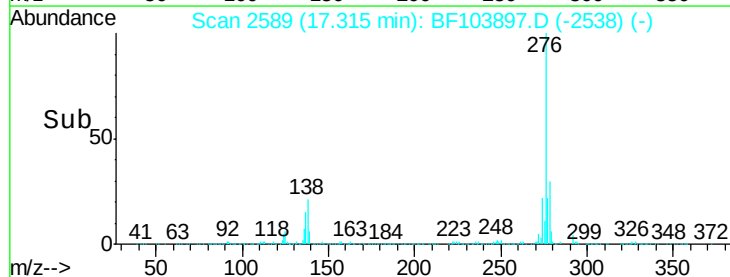
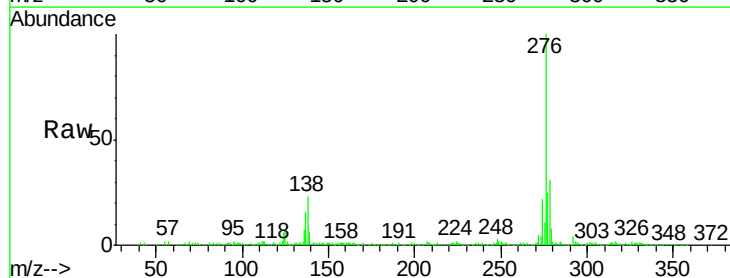
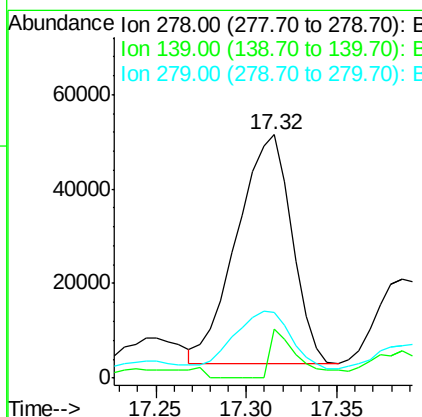
Manual Integrations
APPROVED

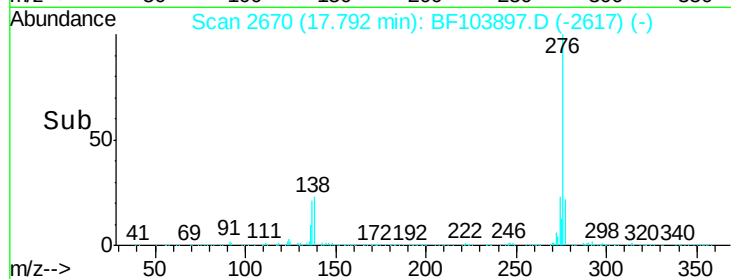
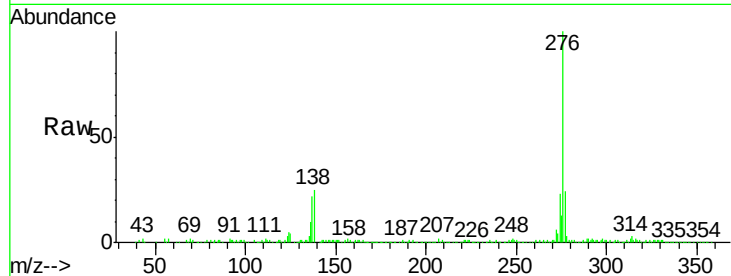
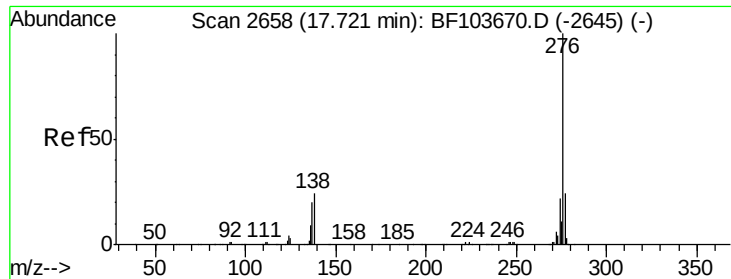
Sohil
3/26/2018 4:33:35 PM



#90
Dibenzo(a,h)anthracene
Concen: 12.320 ng
RT: 17.32 min Scan# 2589
Delta R.T. -0.00 min
Lab File: BF103897.D
Acq: 23 Mar 2018 23:37

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.4	15.9	23.9
279	27.2	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 49.060 ng
 RT: 17.79 min Scan# 2670
 Delta R.T. 0.01 min
 Lab File: BF103897.D
 Acq: 23 Mar 2018 23:37

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_BOT-SE_5

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.9	17.9	26.9
138	25.2	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 3/26/2018 4:33:35 PM

