

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
 Data File : BF103898.D
 Acq On : 24 Mar 2018 00:03
 Operator : JU/SJ
 Sample : J1998-02DL 4X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-109(2-3)DL

Manual Integrations
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Quant Time: Mar 24 02:16:27 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	141631	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	545665	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	229669	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	344717	20.00	ng	0.00
75) Chrysene-d12	14.17	240	257045	20.00	ng	0.00
86) Perylene-d12	15.72	264	193779	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	240470	25.82	ng	0.00
7) Phenol-d6	6.59	99	299874	26.32	ng	-0.01
23) Nitrobenzene-d5	7.53	82	160868	20.56	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	54624	27.66	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	320054	22.23	ng	0.00
78) Terphenyl-d14	13.10	244	238190	21.51	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.28	128	145418	5.276	ng	99
37) 2-Methylnaphthalene	8.97	142	66156	3.785	ng	99
48) Acenaphthylene	9.88	152	114626	4.860	ng	98
51) Acenaphthene	10.05	154	66875	4.775	ng	97
54) Dibenzofuran	10.22	168	87363	4.368	ng	99
57) Fluorene	10.57	166	161656	10.415	ng	99
70) Phenanthrene	11.54	178	977881	51.858	ng	99
71) Anthracene	11.59	178	353644	18.465	ng	99
72) Carbazole	11.74	167	55921	3.004	ng	99
74) Fluoranthene	12.74	202	1013649	52.178	ng	97
77) Pyrene	12.97	202	920262	48.750	ng	99
80) Benzo(a)anthracene	14.16	228	439323	27.001	ng	95
82) Chrysene	14.20	228	373965	24.111	ng	98
85) Indeno(1,2,3-cd)pyrene	17.30	276	144007m	10.632	ng	
87) Benzo(b)fluoranthene	15.26	252	354858m	28.986	ng	
88) Benzo(k)fluoranthene	15.28	252	125662m	10.678	ng	
89) Benzo(a)pyrene	15.65	252	275025	24.768	ng	95
90) Dibenzo(a,h)anthracene	17.32	278	38295	3.983	ng	# 87
91) Benzo(a,h,i)perylene	17.79	276	139291	14.891	ng	96

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

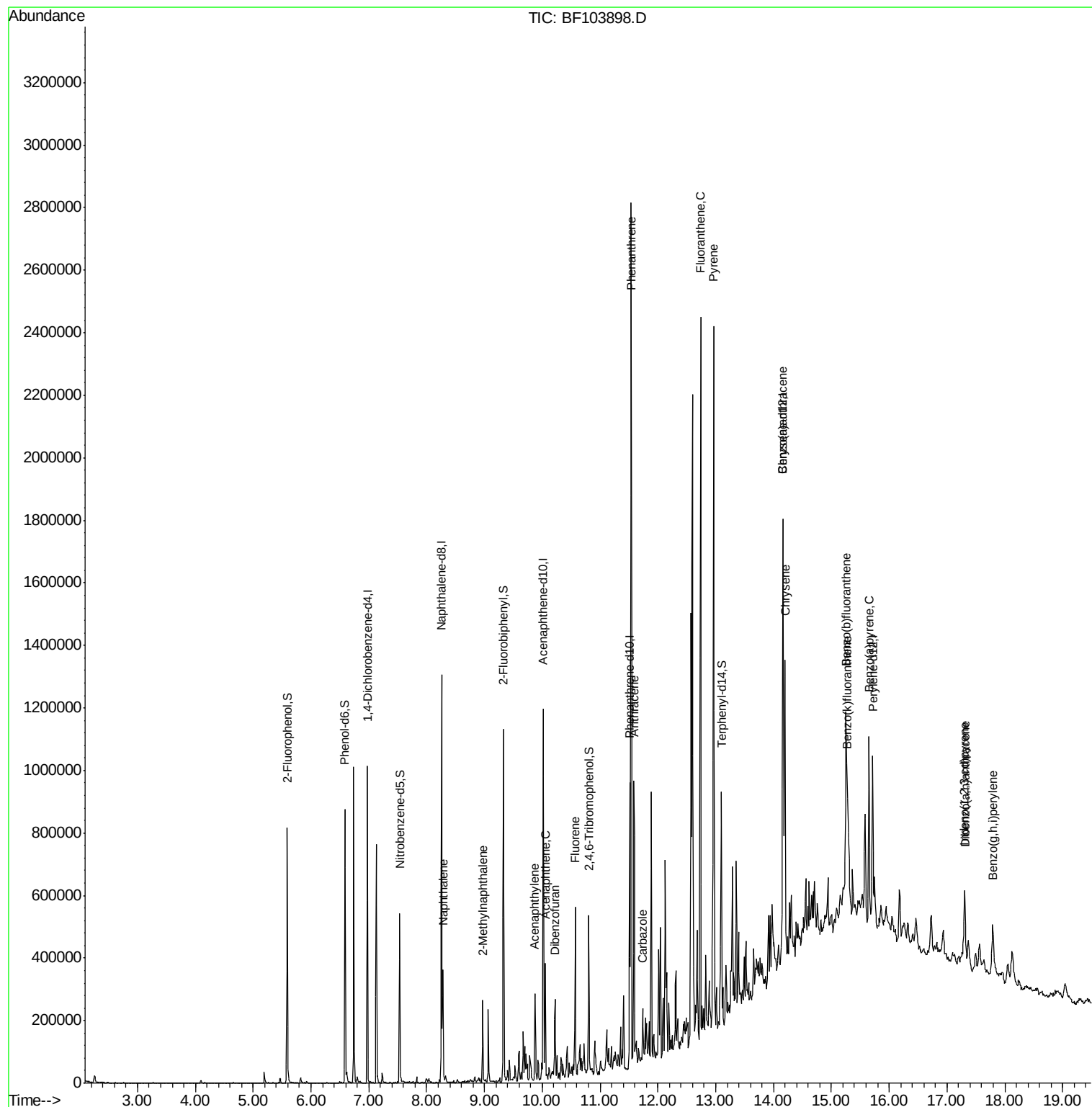
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032318\
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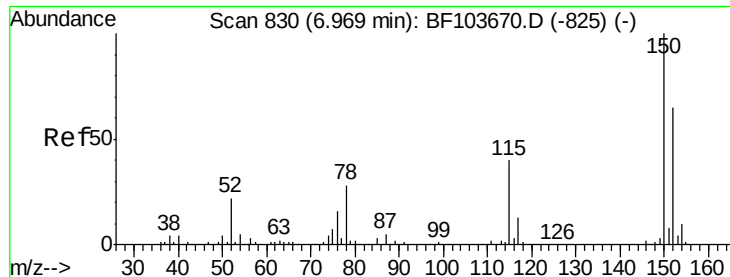
Instrument :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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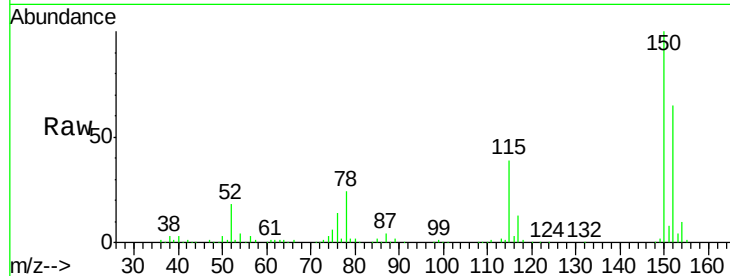
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 831
 Delta R.T. -0.00 min
 Lab File: BF103898.D
 Acq: 24 Mar 2018 00:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-109(2-3)DL

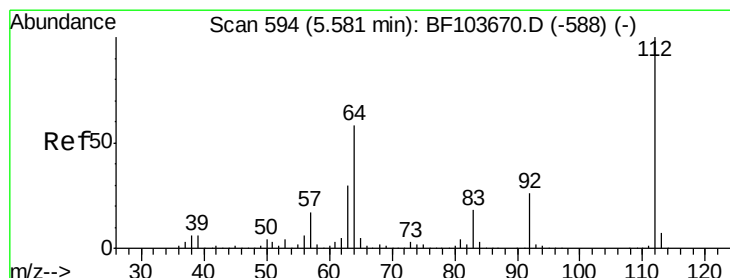
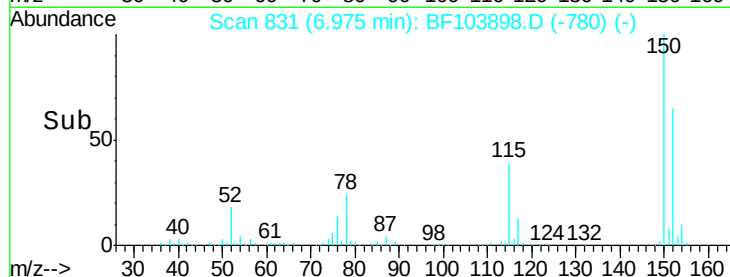
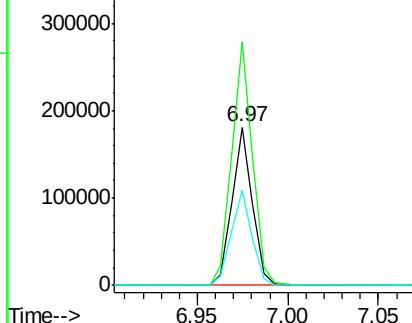
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.6	186.8
115	60.3	50.1	75.1

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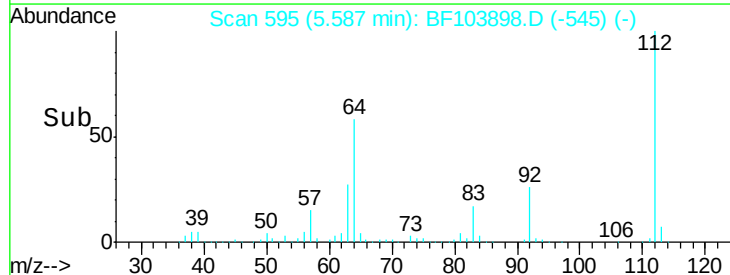
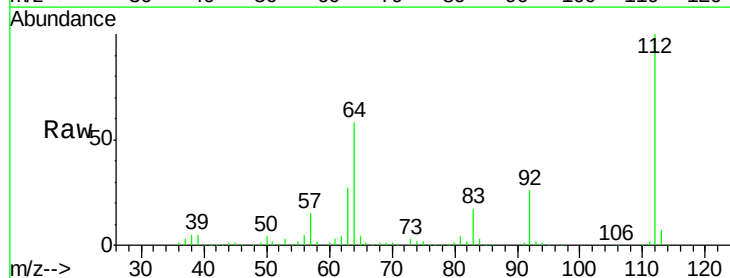
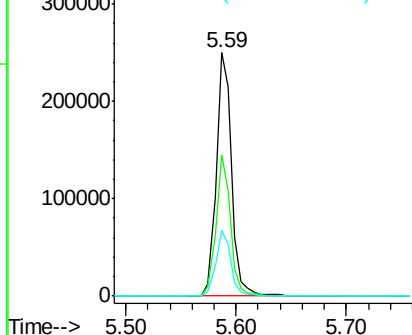
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

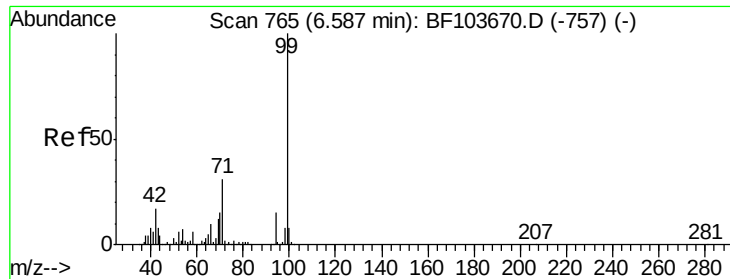


#5
 2-Fluorophenol
 Concen: 25.824 ng
 RT: 5.59 min Scan# 595
 Delta R.T. -0.01 min
 Lab File: BF103898.D
 Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.9	71.9
63	27.1	23.7	35.5

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





#7

Phenol-d6

Concen: 26.323 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103898.D

Acq: 24 Mar 2018 00:03

Instrument :

BNA_F

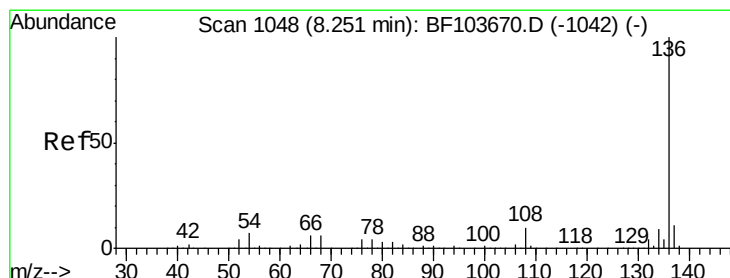
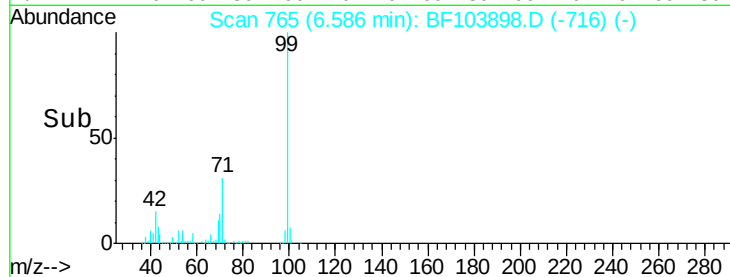
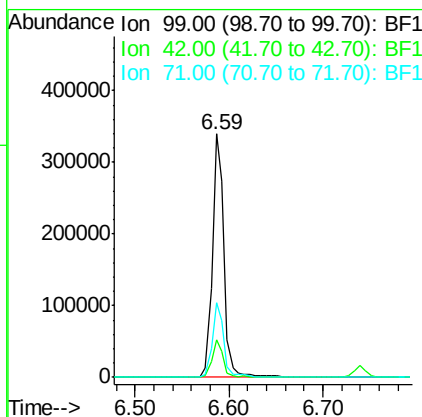
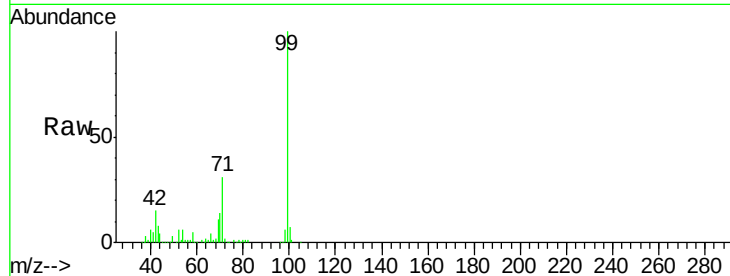
ClientSampleId :

SB-109(2-3)DL

Tot Ion:	99	Resp:	299874
Ion Ratio	Lower	Upper	
99	100		
42	15.5	14.5	21.7
71	30.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

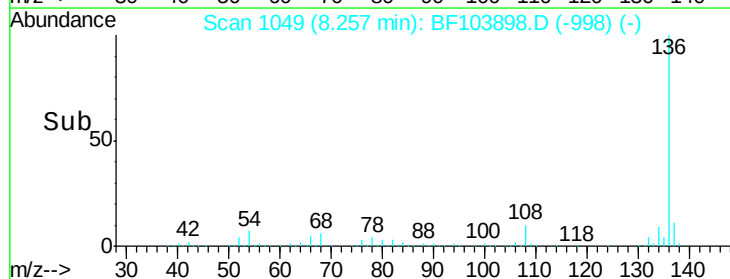
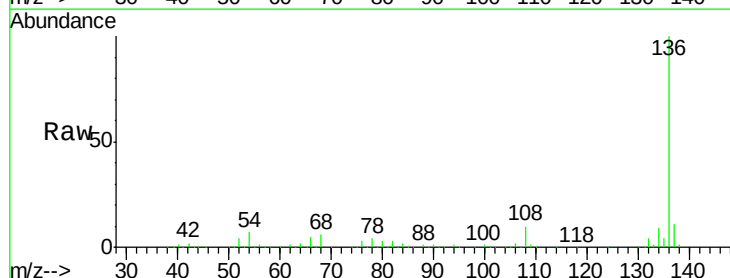
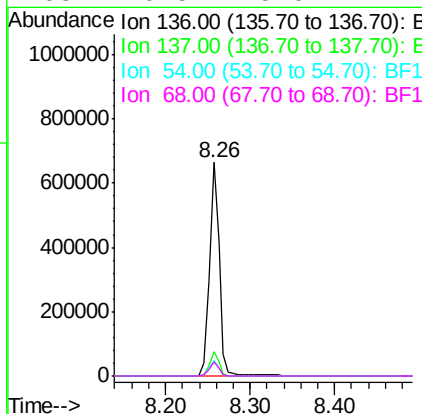
RT: 8.26 min Scan# 1049

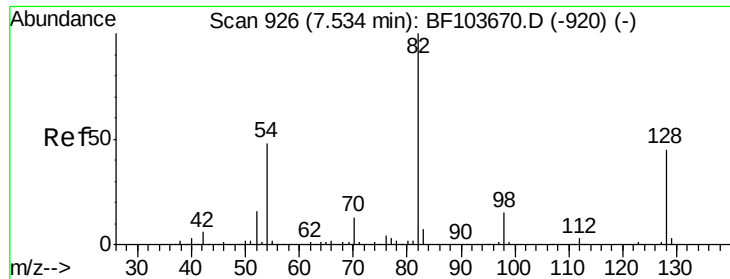
Delta R.T. -0.00 min

Lab File: BF103898.D

Acq: 24 Mar 2018 00:03

Tgt Ion:	136	Resp:	545665
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	7.0	6.6	9.8
68	6.5	5.0	7.4





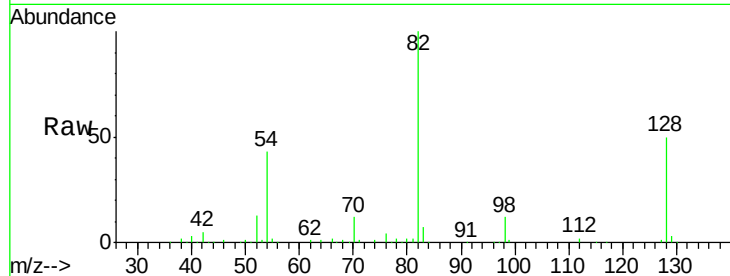
#23
Nitrobenzene-d5
Concen: 20.559 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampled :
SB-109(2-3)DL

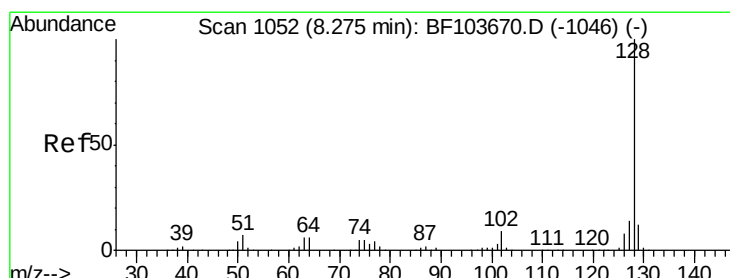
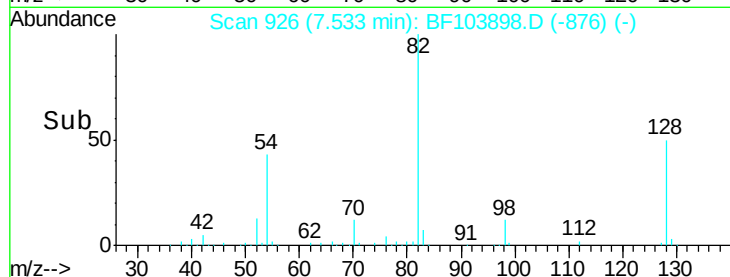
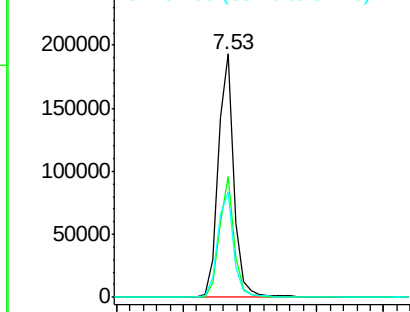
Tot Ion	Ratio	Lower	Upper
82	100		
128	49.8	36.1	54.1
54	43.2	41.4	62.2

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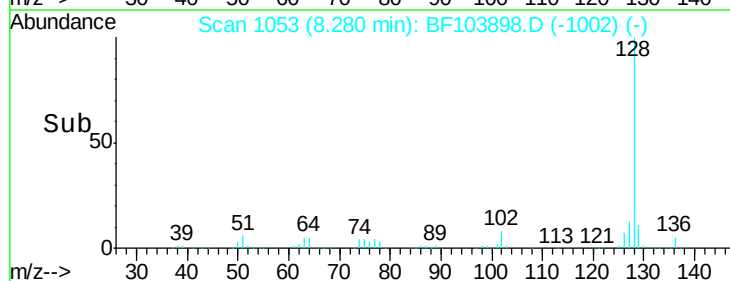
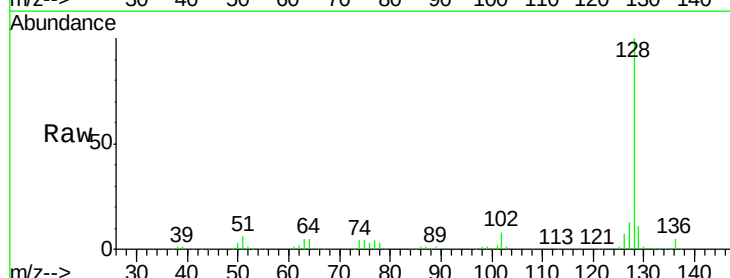
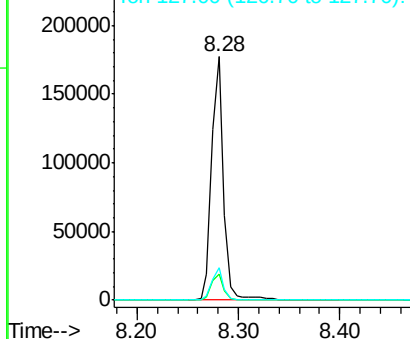
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

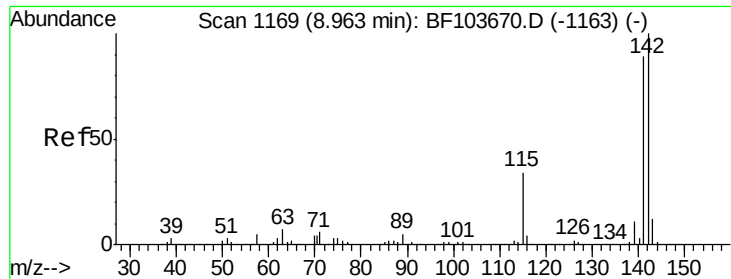


#31
Naphthalene
Concen: 5.276 ng
RT: 8.28 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	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





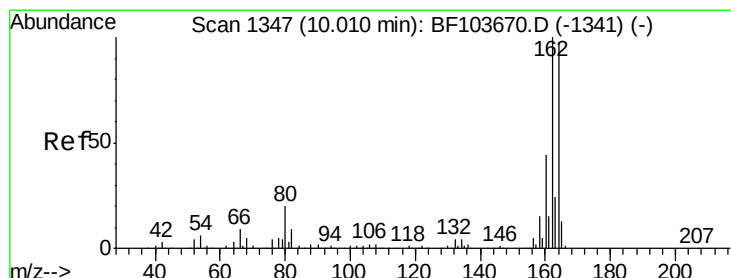
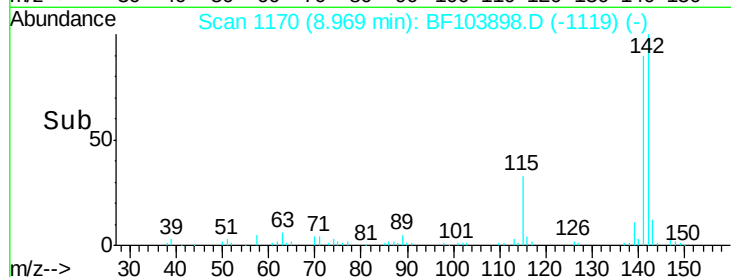
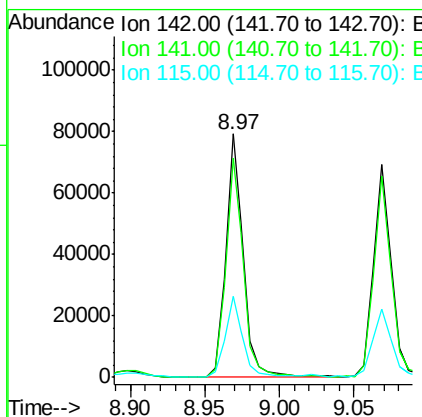
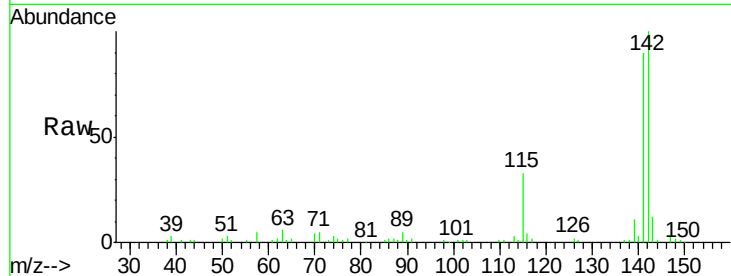
#37
 2-Methylnaphthalene
 Concen: 3.785 ng
 RT: 8.97 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: BF103898.D
 Acq: 24 Mar 2018 00:03

Instrument :
 BNA_F
 ClientSampled :
 SB-109(2-3)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	70.8	106.2
115	33.3	26.1	39.1

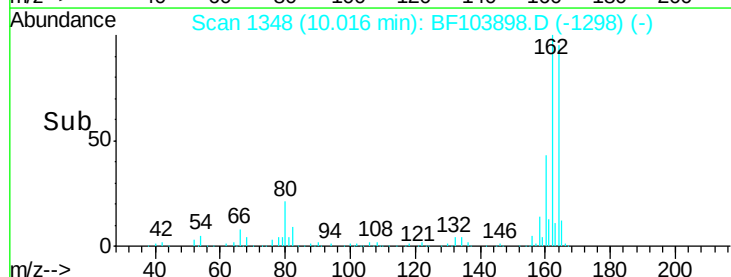
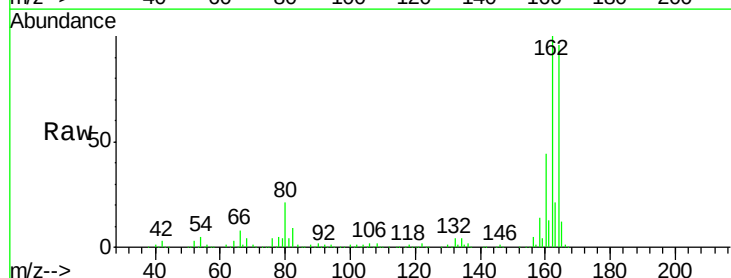
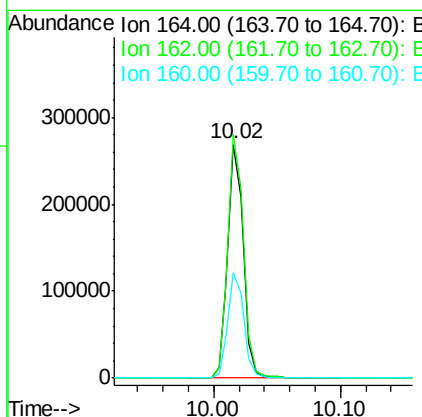
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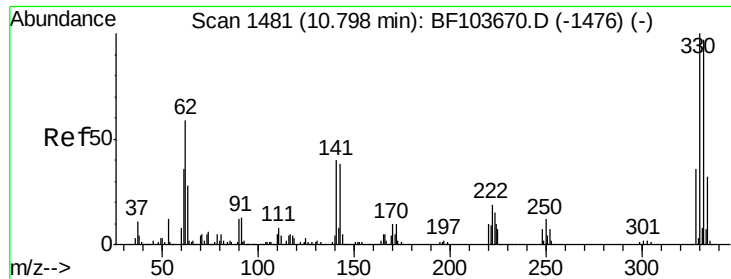
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.02 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: BF103898.D
 Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.2	86.1	129.1
160	45.4	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 27.662 ng

RT: 10.81 min Scan# 1483

Delta R.T. -0.00 min

Lab File: BF103898.D

Acq: 24 Mar 2018 00:03

Instrument :

BNA_F

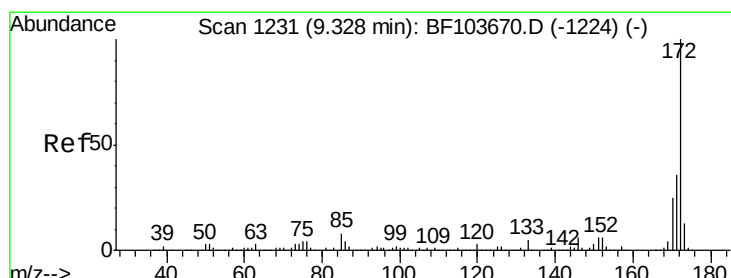
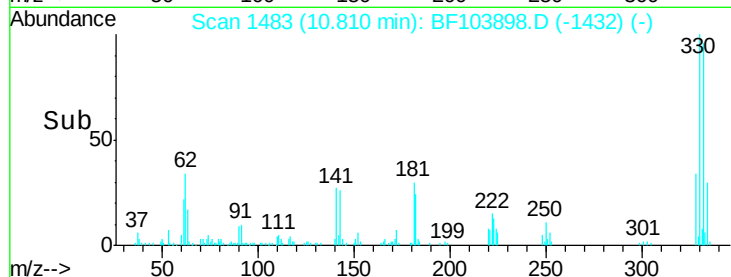
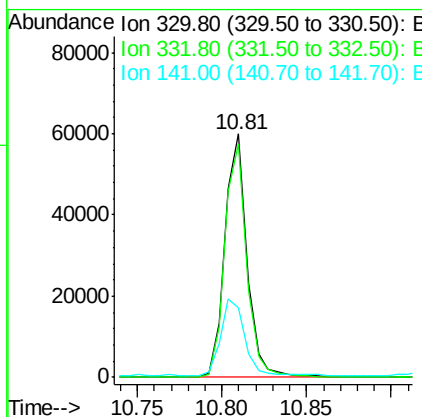
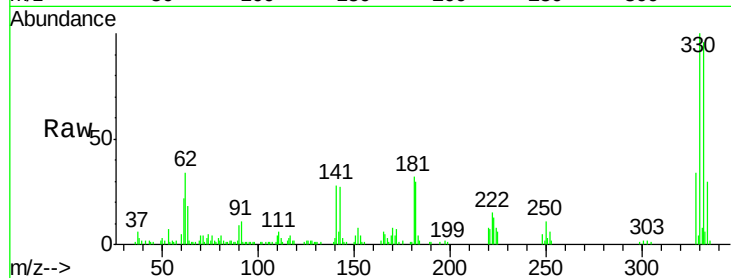
ClientSampleId :

SB-109(2-3)DL

Tot Ion:	330	Resp:	54624
Ion Ratio	Lower	Upper	
330	100		
332	95.3	77.0	115.6
141	35.3	29.9	44.9

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#44

2-Fluorobiphenyl

Concen: 22.229 ng

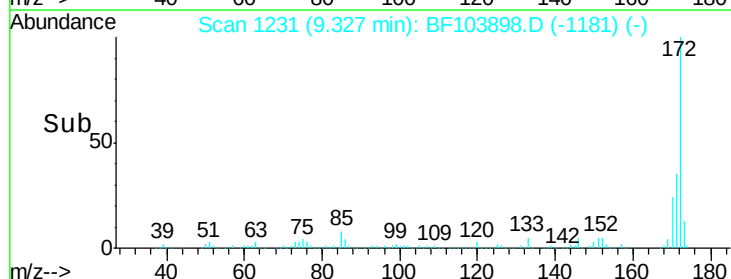
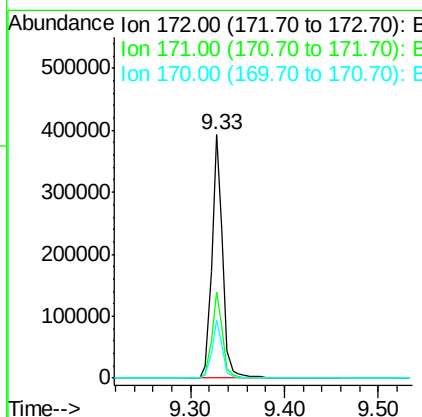
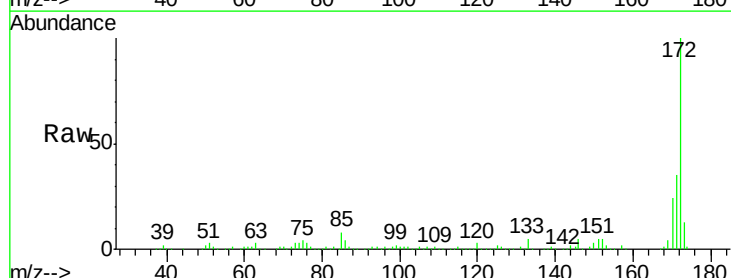
RT: 9.33 min Scan# 1231

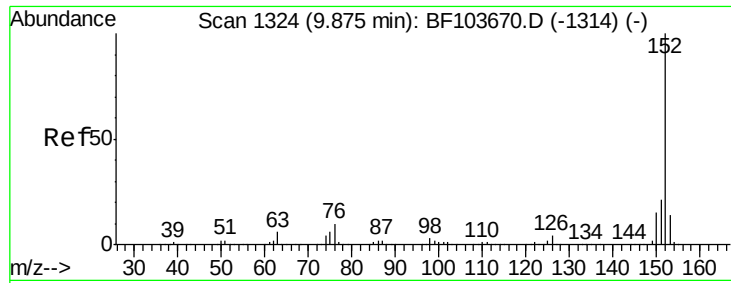
Delta R.T. -0.01 min

Lab File: BF103898.D

Acq: 24 Mar 2018 00:03

Tgt Ion:	172	Resp:	320054
Ion Ratio	Lower	Upper	
172	100		
171	35.4	29.7	44.5
170	24.0	19.6	29.4





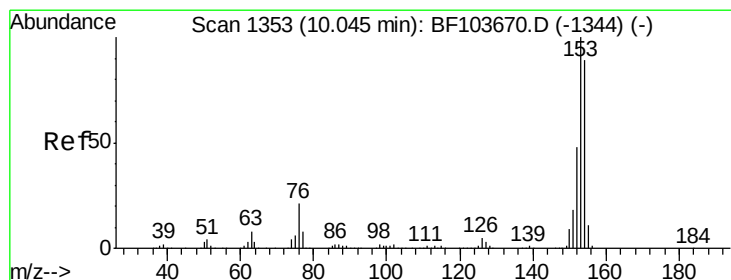
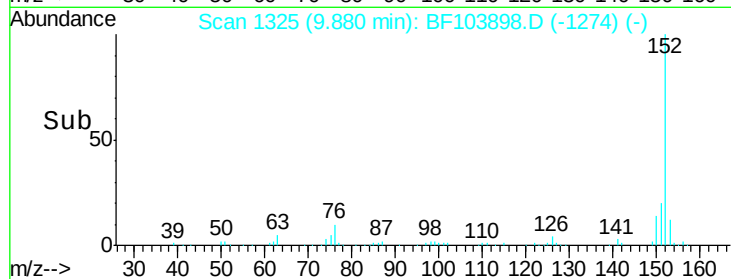
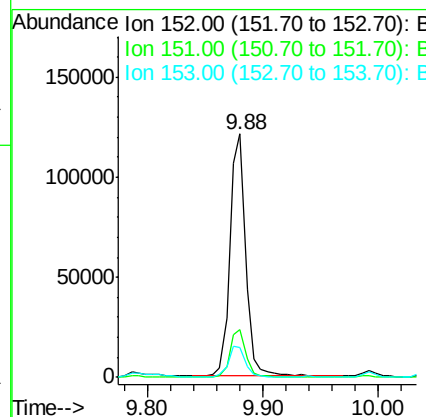
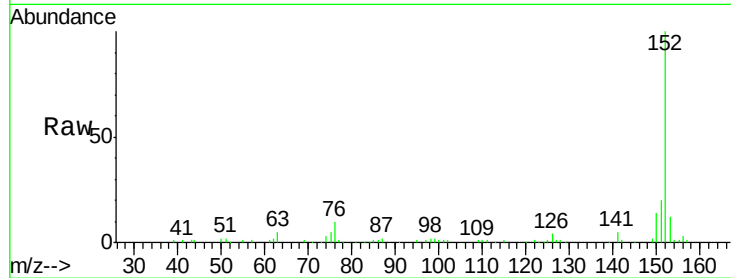
#48
Acenaphthylene
Concen: 4.860 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleId :
SB-109(2-3)DL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	114626		
151	19.5		16.3	24.5
153	12.4		10.7	16.1

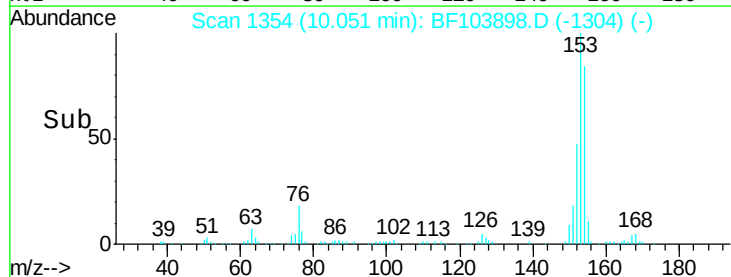
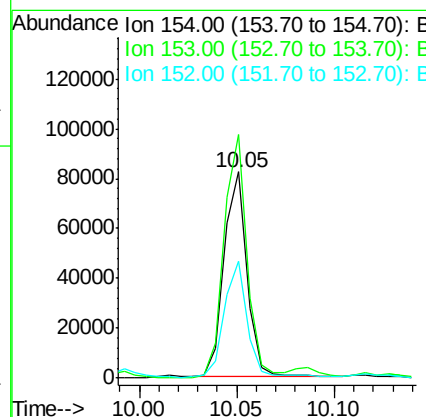
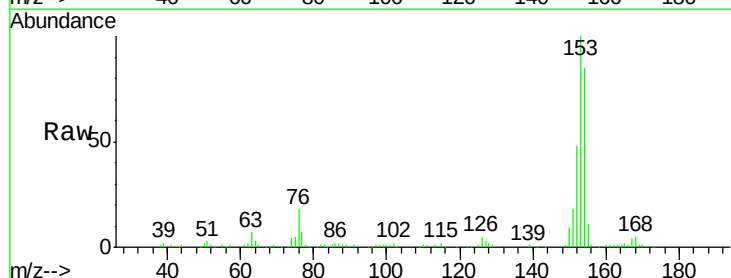
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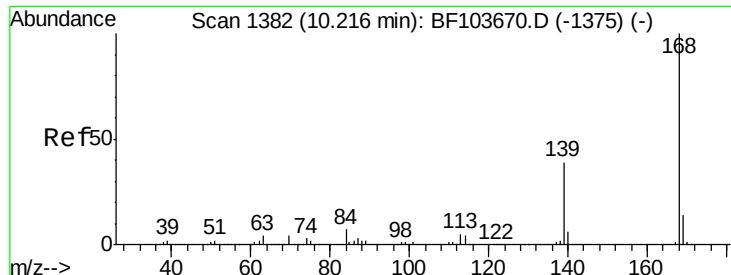
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#51
Acenaphthene
Concen: 4.775 ng
RT: 10.05 min Scan# 1354
Delta R.T. -0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	66875		
153	118.1		91.2	136.8
152	56.5		43.8	65.8





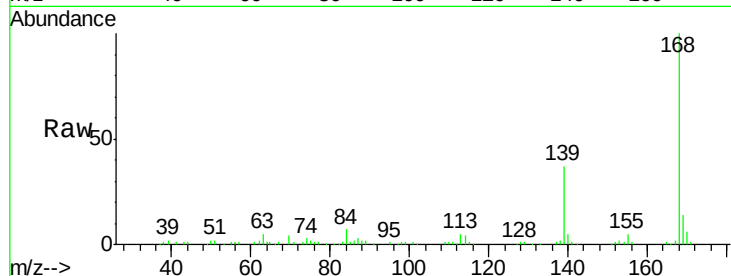
#54
Dibenzofuran
Concen: 4.368 ng
RT: 10.22 min Scan# 1383
Delta R.T. -0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleID :
SB-109(2-3)DL

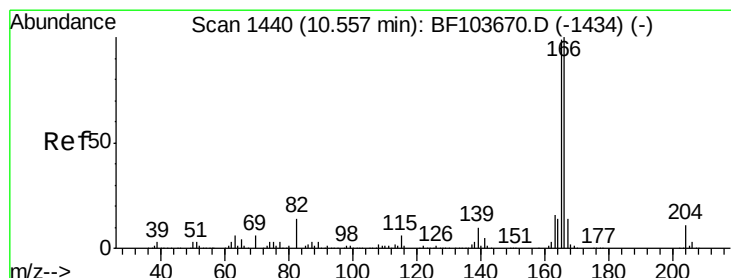
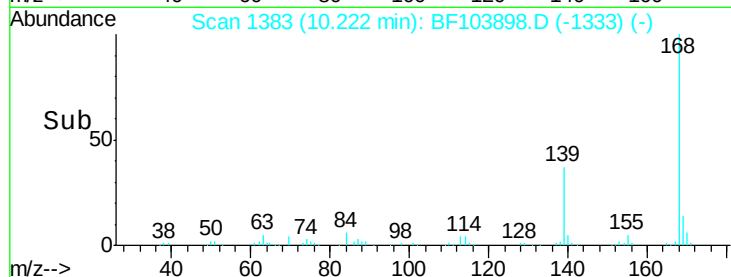
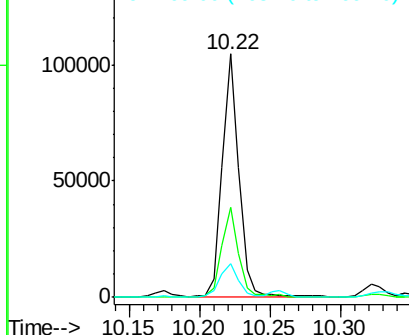
Tot Ion	Ratio	Lower	Upper
168	100		
139	37.0	30.1	45.1
169	14.1	10.9	16.3

Manual Integrations
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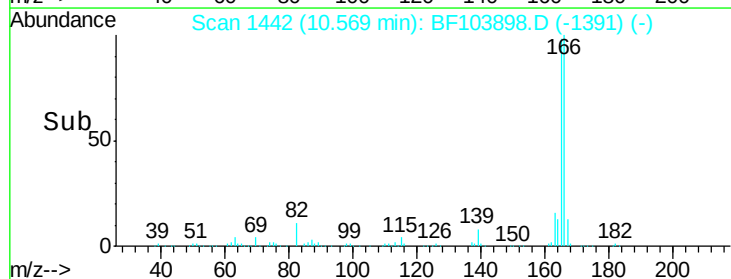
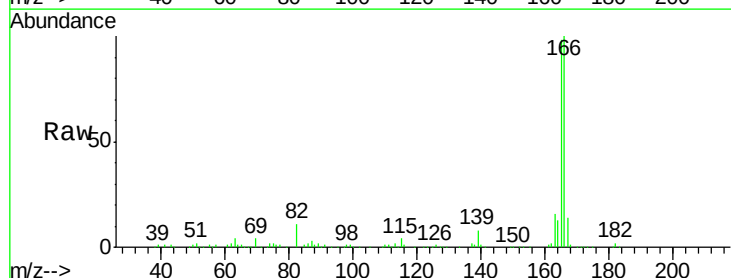
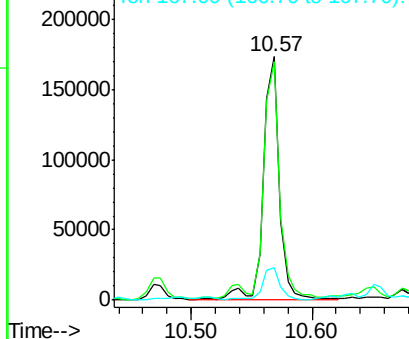
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

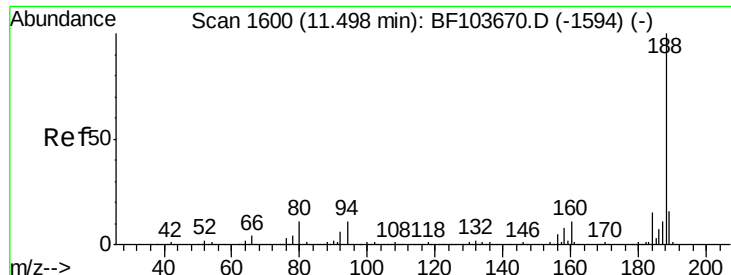


#57
Fluorene
Concen: 10.415 ng
RT: 10.57 min Scan# 1442
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.8	119.8
167	13.5	10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





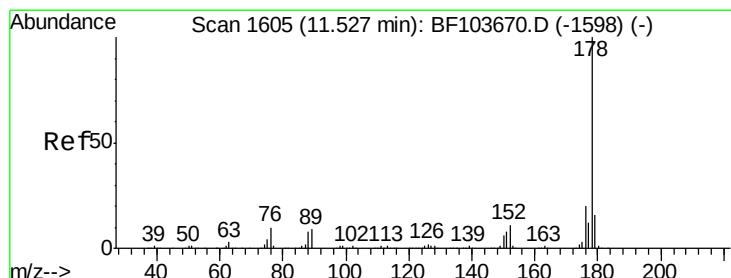
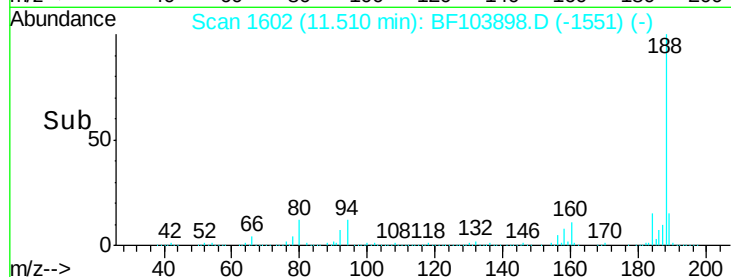
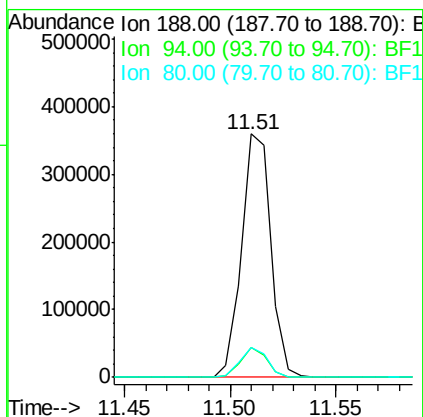
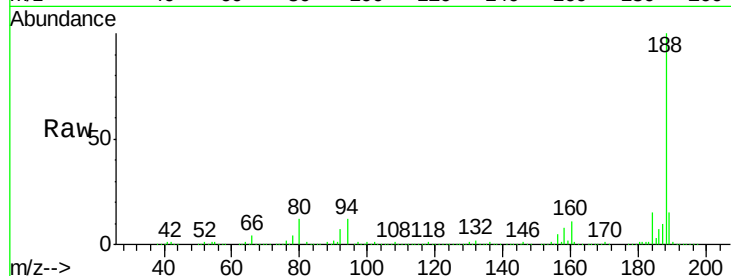
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1602
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleId :
SB-109(2-3)DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	12.1	8.5	12.7
80	12.1	9.2	13.8

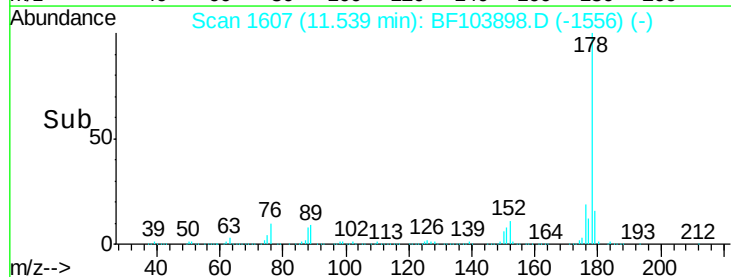
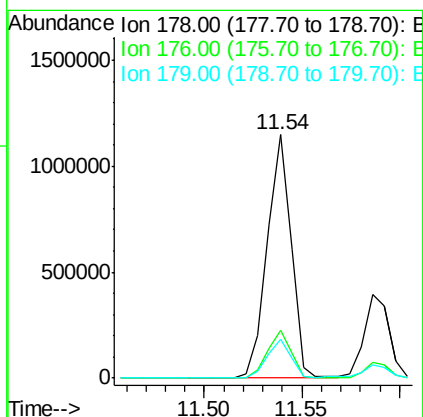
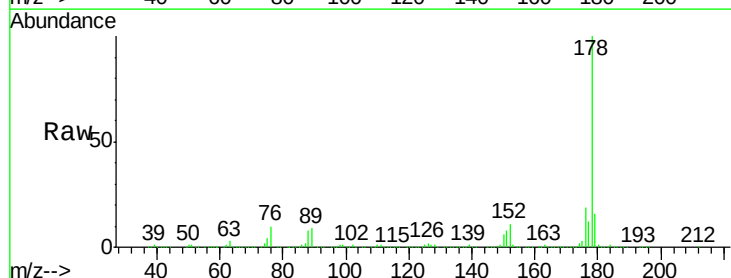
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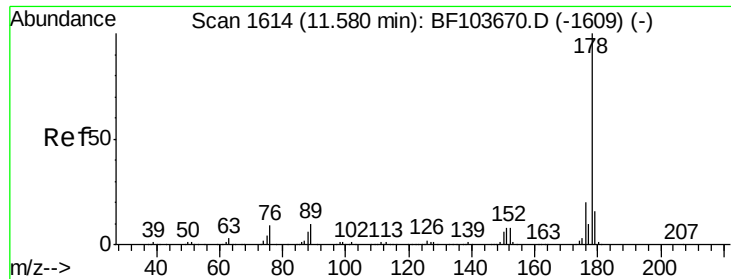
Sohil
3/26/2018 4:33:38 PM



#70
Phenanthrene
Concen: 51.858 ng
RT: 11.54 min Scan# 1607
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.7	13.0	19.6





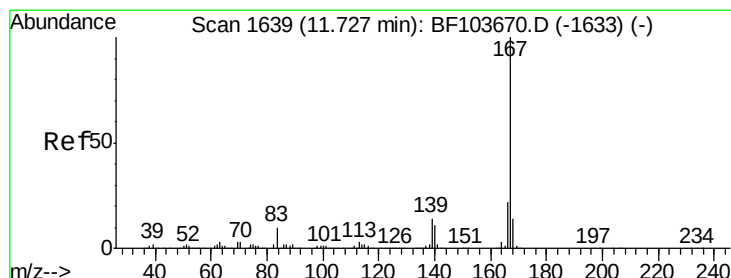
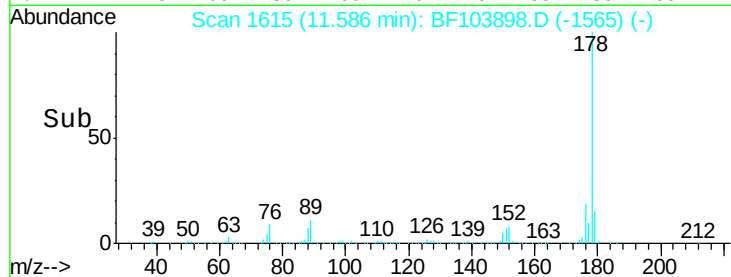
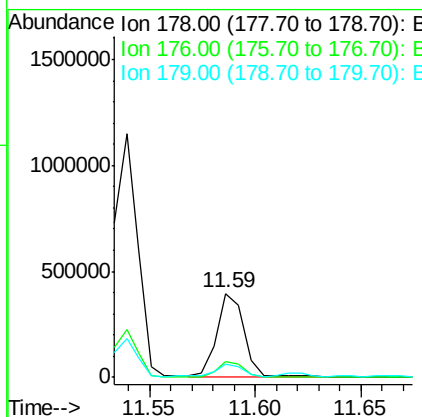
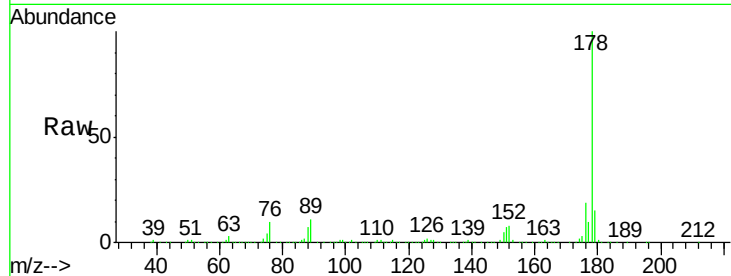
#71
 Anthracene
 Concen: 18.465 ng
 RT: 11.59 min Scan# 1615
 Delta R.T. -0.01 min
 Lab File: BF103898.D
 Acq: 24 Mar 2018 00:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-109(2-3)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.5	12.6	19.0

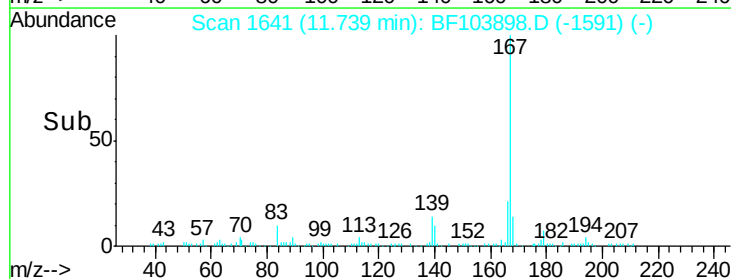
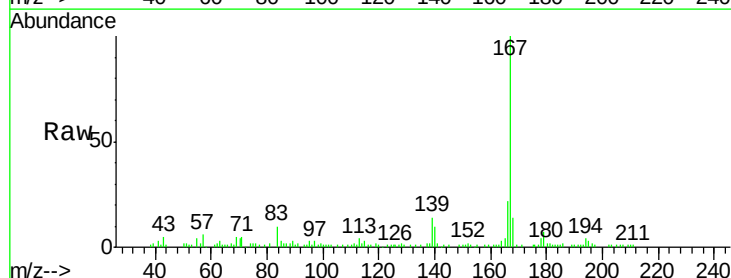
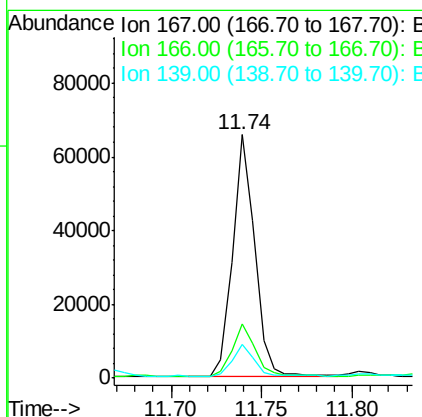
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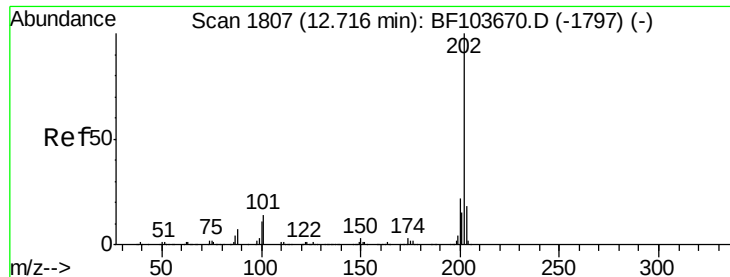
Sohil
 3/26/2018 4:33:38 PM



#72
 Carbazole
 Concen: 3.004 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. -0.01 min
 Lab File: BF103898.D
 Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.6	26.4
139	14.0	10.9	16.3





#74

Fluoranthene

Concen: 52.178 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.01 min

Lab File: BF103898.D

Acq: 24 Mar 2018 00:03

Instrument :

BNA_F

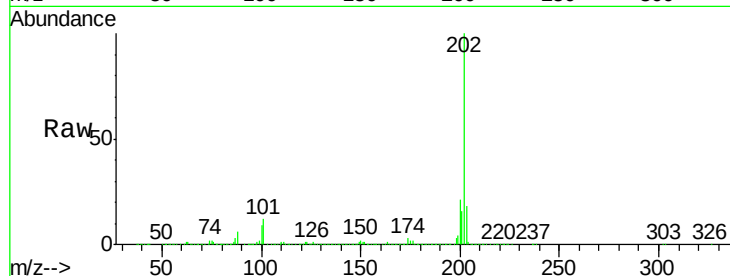
ClientSampleId :

SB-109(2-3)DL

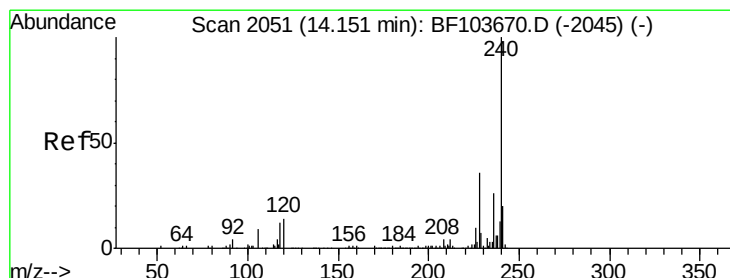
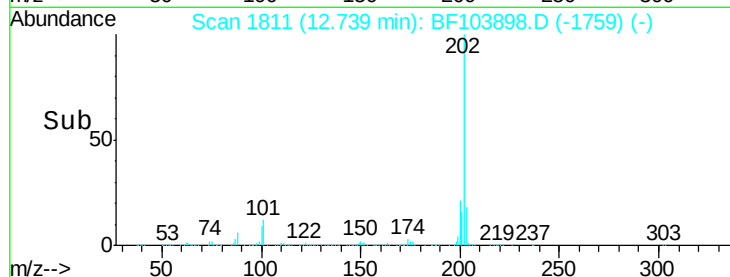
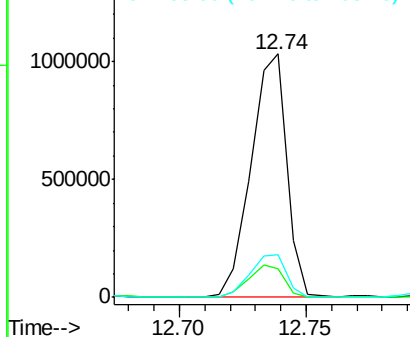
Tot Ion:	202	Resp:	1013649
Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	34.1
203	17.6	0.0	38.1

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

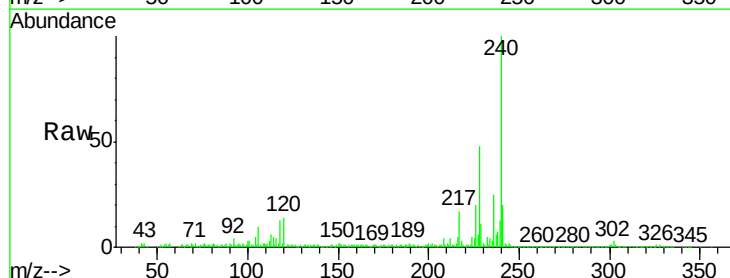
RT: 14.17 min Scan# 2054

Delta R.T. -0.00 min

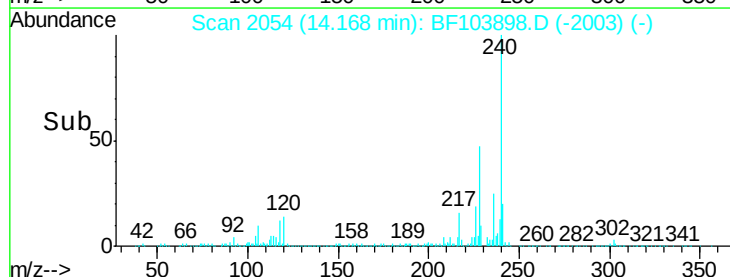
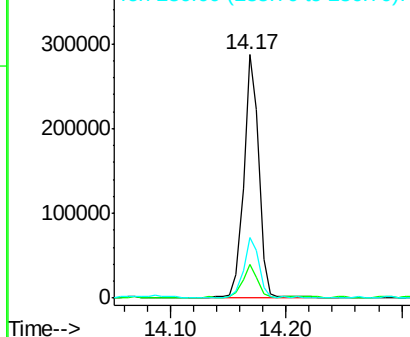
Lab File: BF103898.D

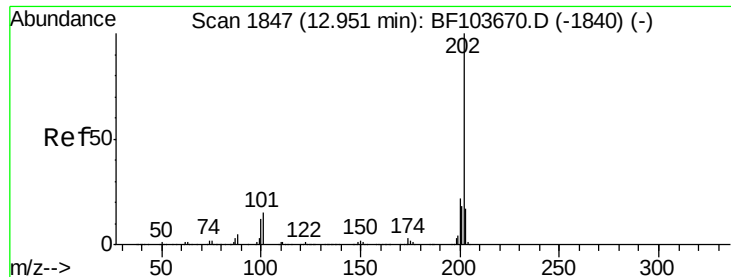
Acq: 24 Mar 2018 00:03

Tgt Ion:	240	Resp:	257045
Ion	Ratio	Lower	Upper
240	100		
120	13.9	9.5	14.3
236	25.0	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





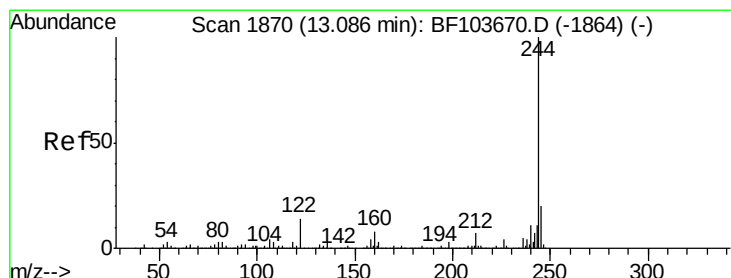
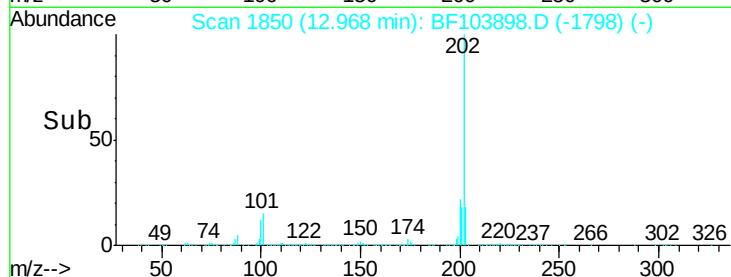
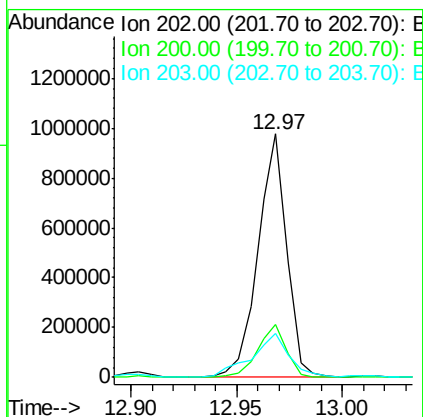
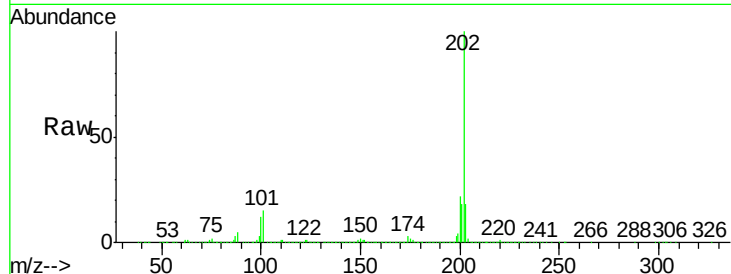
#77
Pvrene
Concen: 48.750 ng
RT: 12.97 min Scan# 1850
Delta R.T. 0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleId :
SB-109(2-3)DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.6	17.4	26.2
203	18.3	14.3	21.5

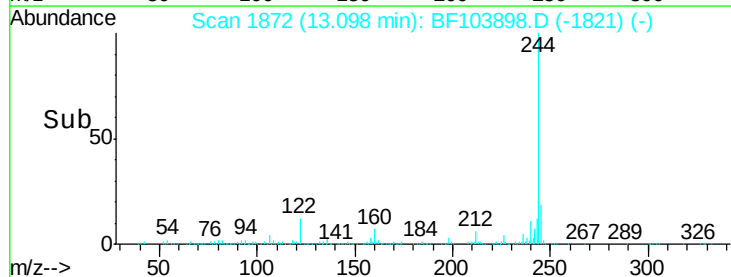
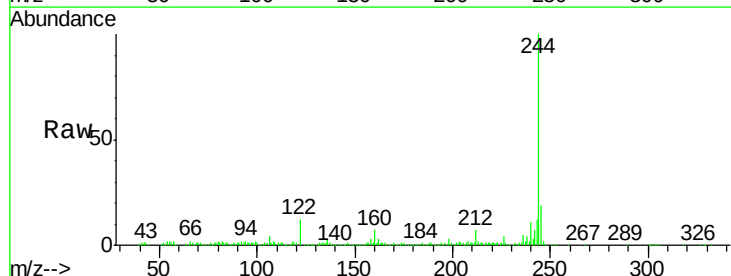
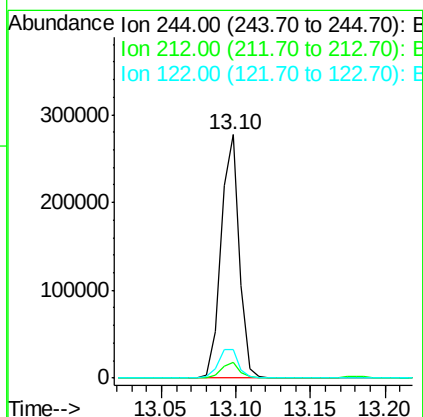
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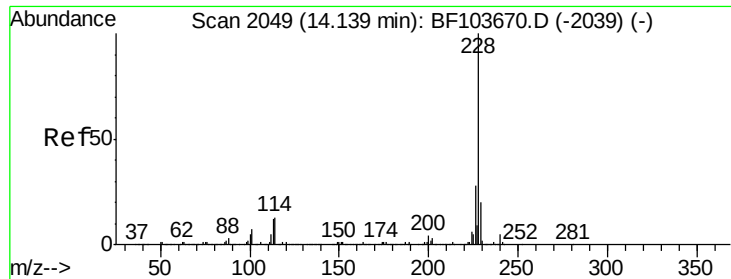
Sohil
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#78
Terphenyl-d14
Concen: 21.509 ng
RT: 13.10 min Scan# 1872
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.6	5.4	8.0
122	12.0	11.0	16.4





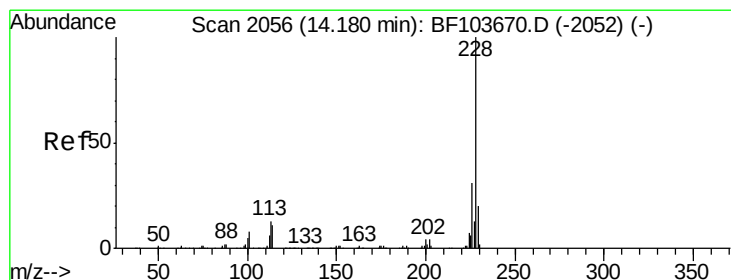
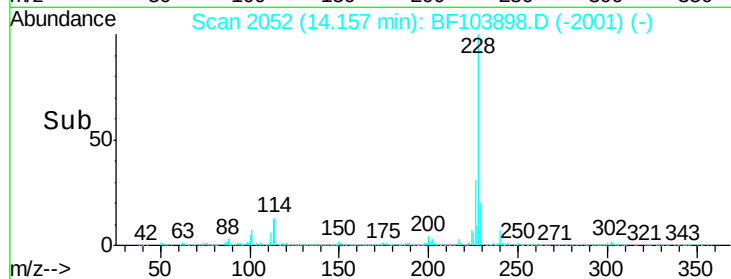
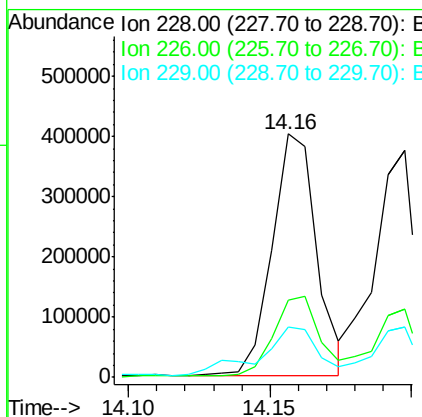
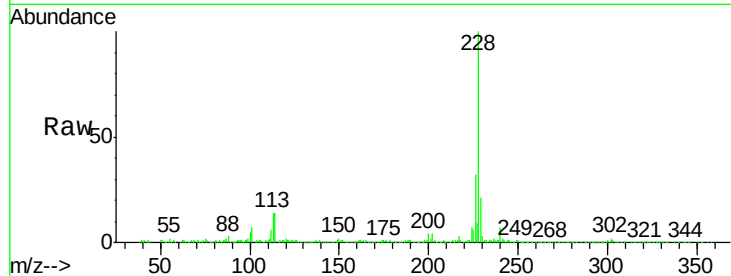
#80
Benzo(a)anthracene
Concen: 27.001 ng
RT: 14.16 min Scan# 2052
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleId :
SB-109(2-3)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.6	33.8
229	20.7	15.8	23.6

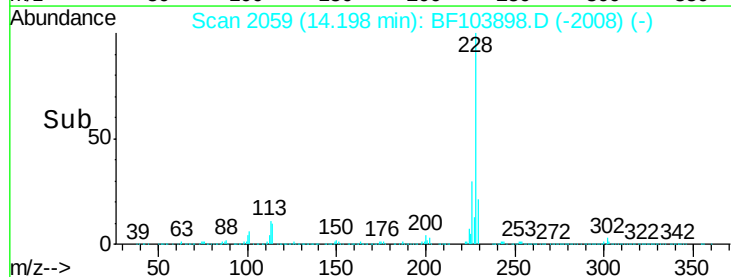
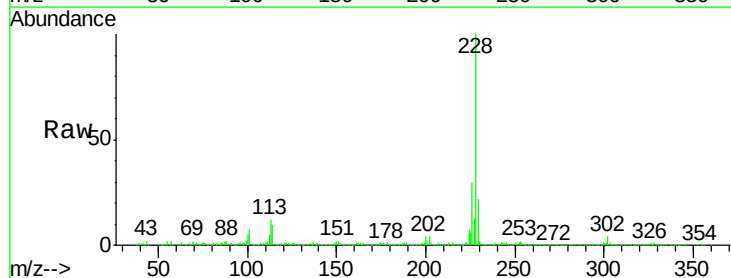
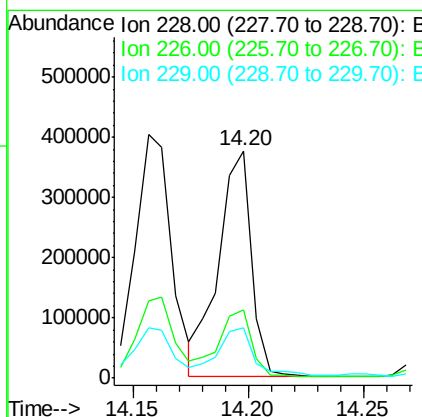
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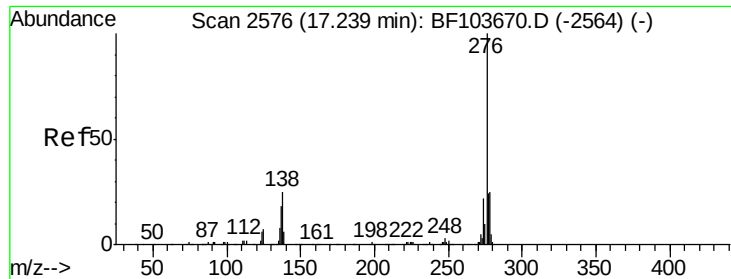
Sohil
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#82
Chrysene
Concen: 24.111 ng
RT: 14.20 min Scan# 2059
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.0	37.6
229	21.9	16.2	24.4





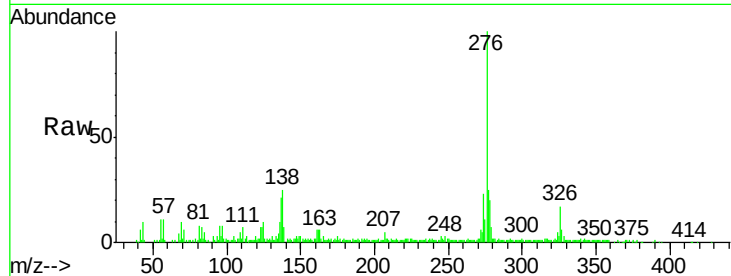
#85
Indeno(1,2,3-cd)pyrene
Concen: 10.632 ng
RT: 17.30 min Scan# 2587
Delta R.T. 0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleID :
SB-109(2-3)DL

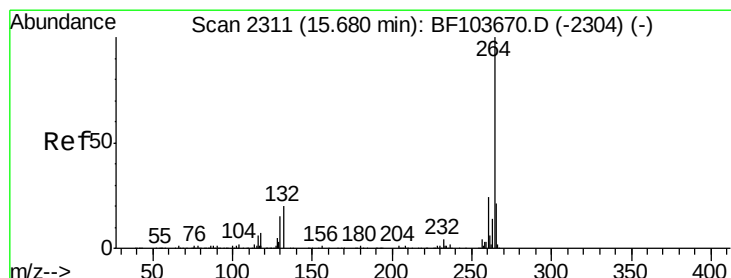
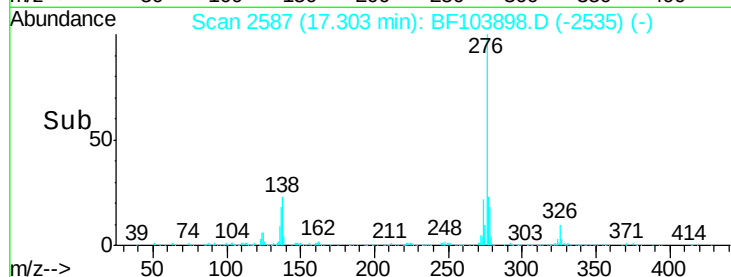
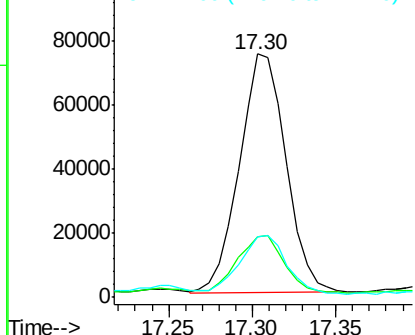
Tot Ion	Ratio	Lower	Upper
276	100		
138	5.4	25.0	37.6#
277	5.2	20.1	30.1#

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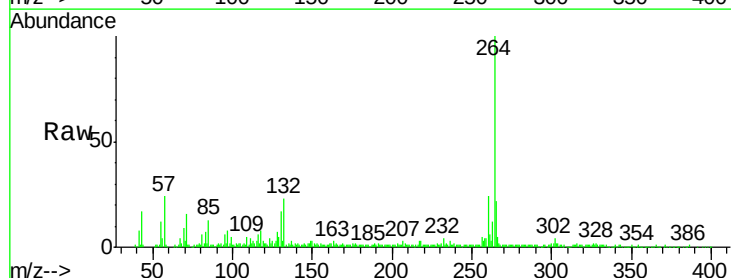


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

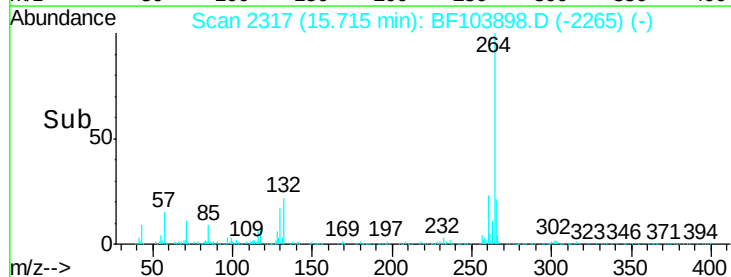
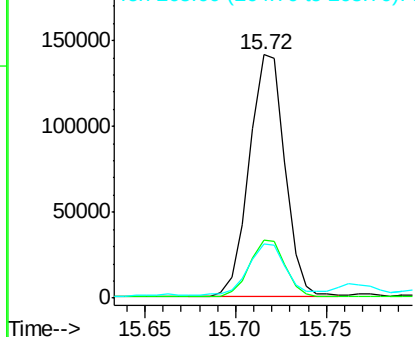


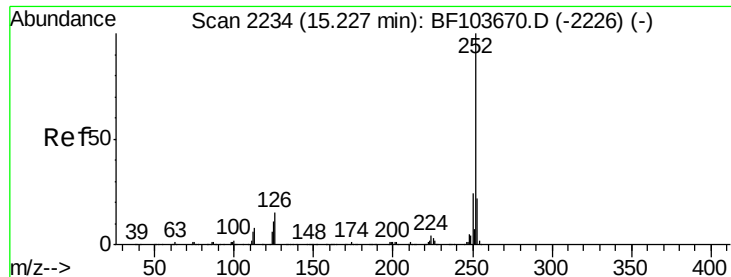
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2317
Delta R.T. 0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.4	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





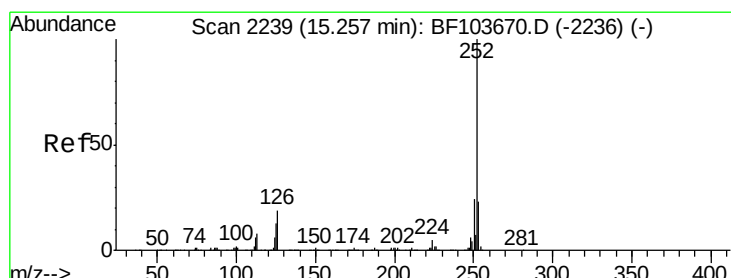
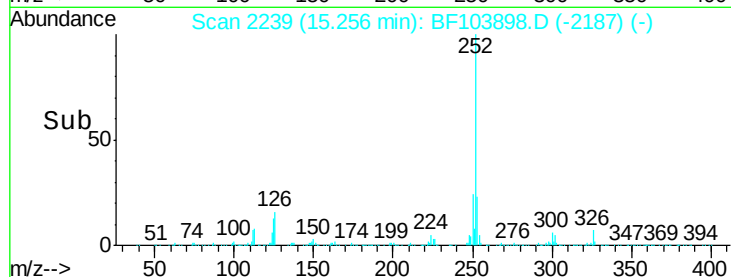
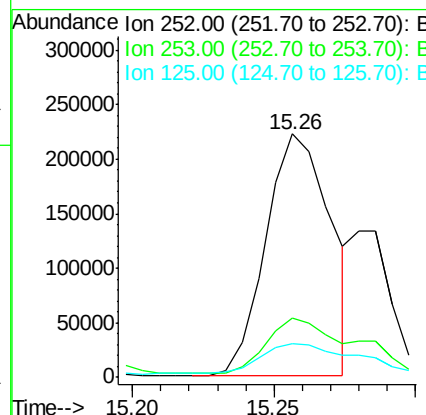
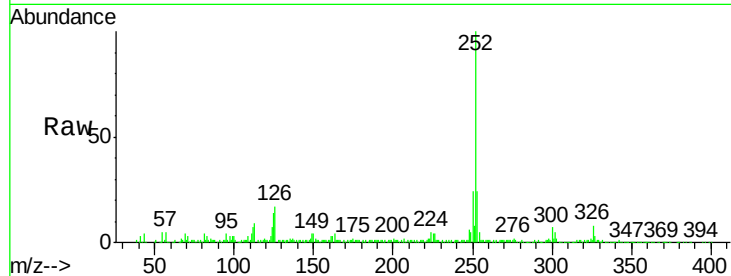
#87
Benzo(b)fluoranthene
Concen: 28.986 ng m
RT: 15.26 min Scan# 2239
Delta R.T. 0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleId :
SB-109(2-3)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.0	25.6
125	14.0	9.0	13.6

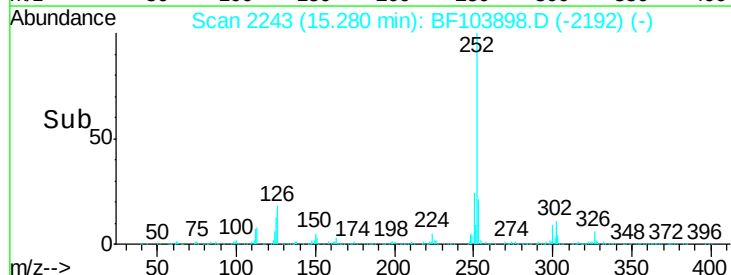
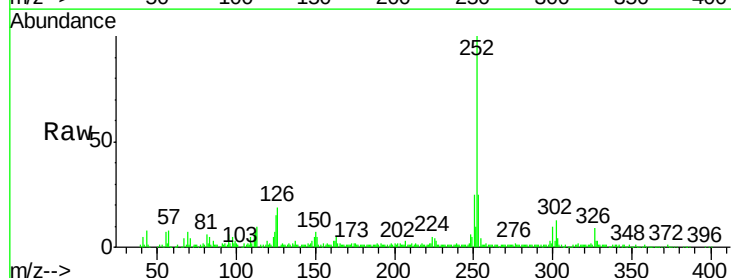
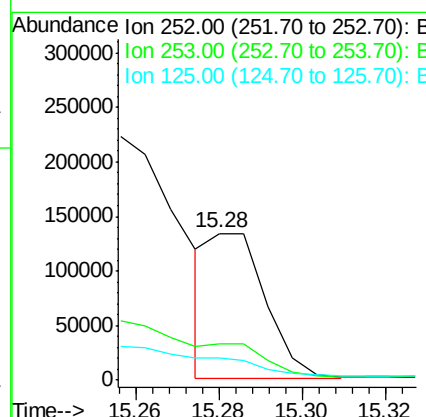
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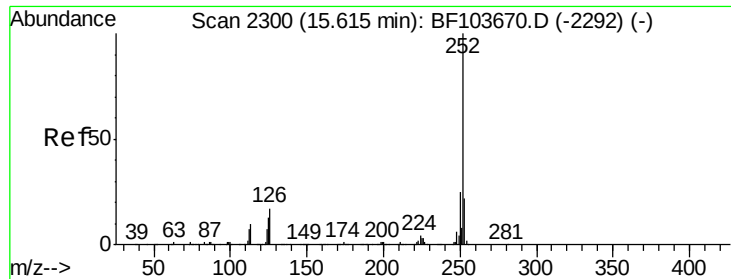
Sohil
3/26/2018 4:33:38 PM



#88
Benzo(k)fluoranthene
Concen: 10.678 ng m
RT: 15.28 min Scan# 2243
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.9	26.9
125	15.2	10.2	15.2





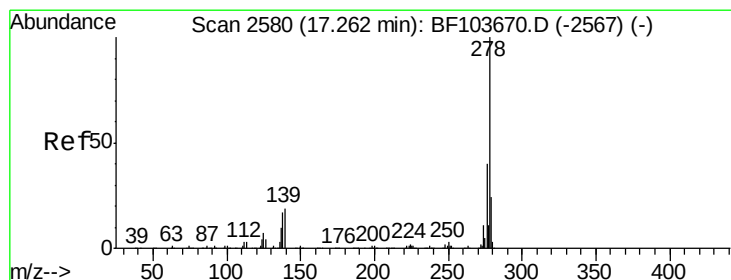
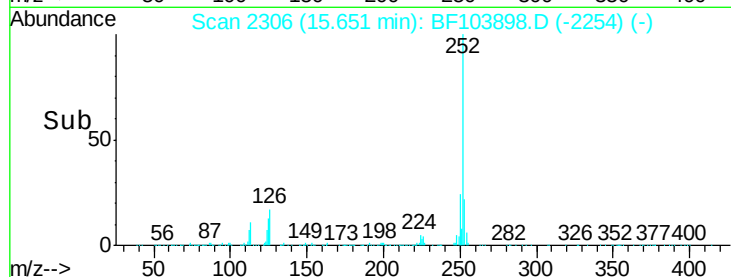
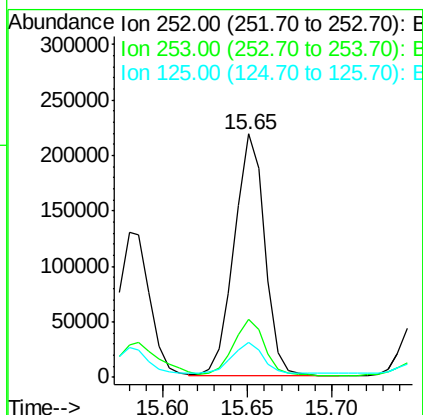
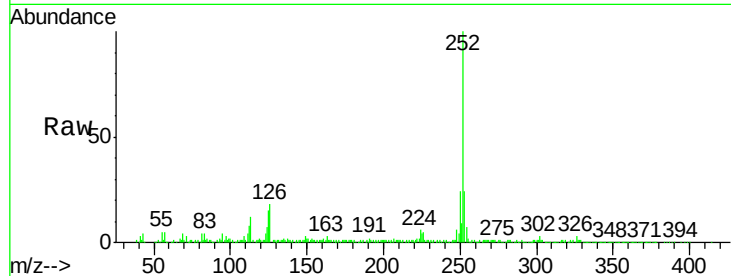
#89
Benzo(a)pyrene
Concen: 24.768 ng
RT: 15.65 min Scan# 2306
Delta R.T. 0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleId :
SB-109(2-3)DL

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

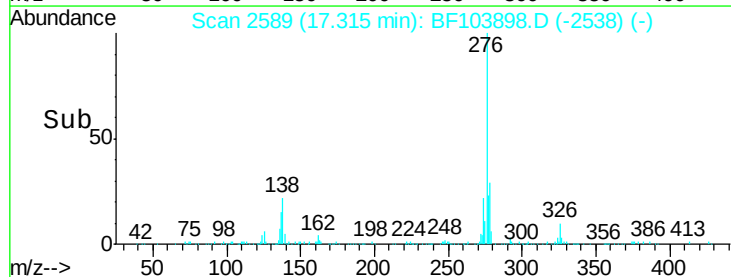
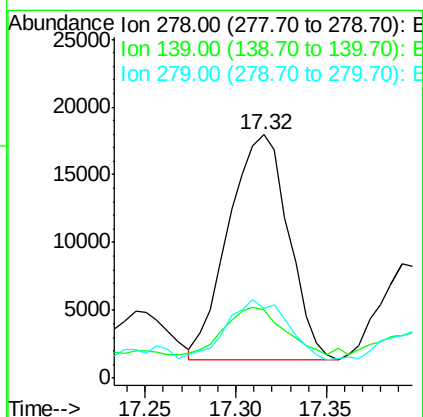
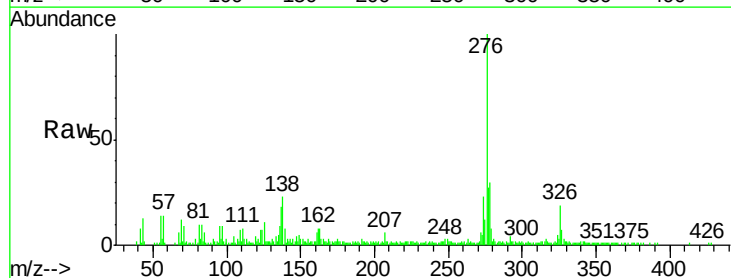
Manual Integrations
APPROVED

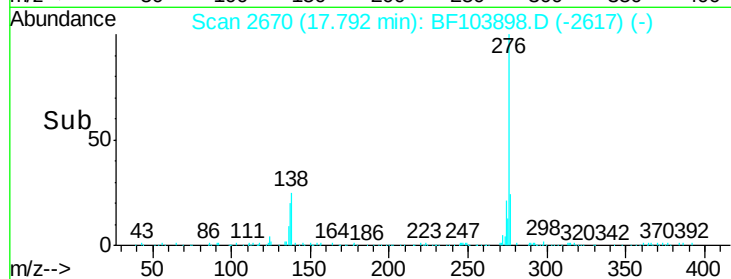
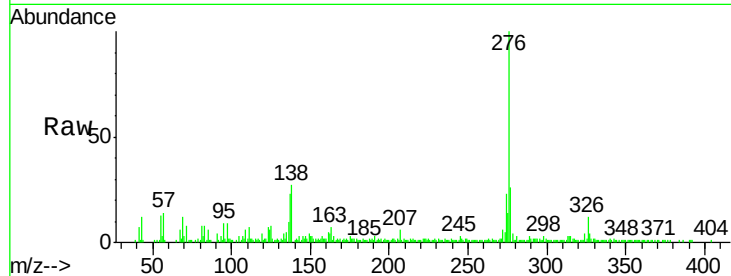
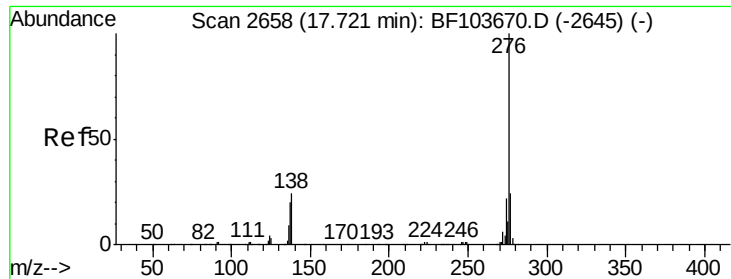
Sohil
3/26/2018 4:33:38 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.983 ng
RT: 17.32 min Scan# 2589
Delta R.T. -0.00 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.9	15.9	23.9#
279	28.4	19.0	28.4#





#91
Benzo(a,h,i)perylene
Concen: 14.891 ng
RT: 17.79 min Scan# 2670
Delta R.T. 0.01 min
Lab File: BF103898.D
Acq: 24 Mar 2018 00:03

Instrument :
BNA_F
ClientSampleId :
SB-109(2-3)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.1	17.9	26.9
138	27.0	21.8	32.8

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