

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091417\
 Data File : BF098522.D
 Acq On : 14 Sep 2017 11:58
 Operator : SJ/JU
 Sample : I5208-01DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-ADL

Manual Integrations
 APPROVED

Sohil
 9/15/2017 5:43:31 PM

Quant Time: Sep 21 16:51:47 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 21 16:40:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	150451	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	619674	20.00	ng	0.00
38) Acenaphthene-d10	9.68	164	271512	20.00	ng	0.00
63) Phenanthrene-d10	11.16	188	455014	20.00	ng	0.00
75) Chrysene-d12	13.80	240	300681	20.00	ng	0.00
86) Perylene-d12	15.19	264	344939	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	100509	9.88	ng	0.00
7) Phenol-d6	6.30	99	128161	9.92	ng	0.00
23) Nitrobenzene-d5	7.21	82	73889	6.65	ng	-0.01
41) 2,4,6-Tribromophenol	10.47	330	20336	11.22	ng	-0.01
44) 2-Fluorobiphenyl	9.00	172	137123	8.56	ng	-0.01
78) Terphenyl-d14	12.74	244	90604	6.50	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.95	128	455417	14.866	ng	99
37) 2-Methylnaphthalene	8.65	142	186359	10.043	ng	99
48) Acenaphthylene	9.54	152	161297	6.250	ng	98
51) Acenaphthene	9.71	154	75323	4.592	ng	96
54) Dibenzofuran	9.89	168	163238	7.554	ng	100
57) Fluorene	10.23	166	304896	17.046	ng	98
70) Phenanthrene	11.19	178	1426580	59.141	ng	99
71) Anthracene	11.24	178	340664	13.755	ng	97
72) Carbazole	11.40	167	137063	5.938	ng	97
74) Fluoranthene	12.37	202	955806	39.582	ng	99
77) Pyrene	12.60	202	826362	34.839	ng	99
80) Benzo(a)anthracene	13.79	228	349794	19.843	ng	95
82) Chrysene	13.82	228	330404m	18.542	ng	
85) Indeno(1,2,3-cd)pyrene	16.53	276	152247	12.178	ng	94
87) Benzo(b)fluoranthene	14.80	252	363577m	16.763	ng	
88) Benzo(k)fluoranthene	14.83	252	146809m	7.251	ng	
89) Benzo(a)pyrene	15.14	252	293868	15.209	ng	98
90) Dibenzo(a,h)anthracene	16.53	278	38563m	2.744	ng	
91) Benzo(g,h,i)perylene	16.93	276	139546	9.871	ng	98

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

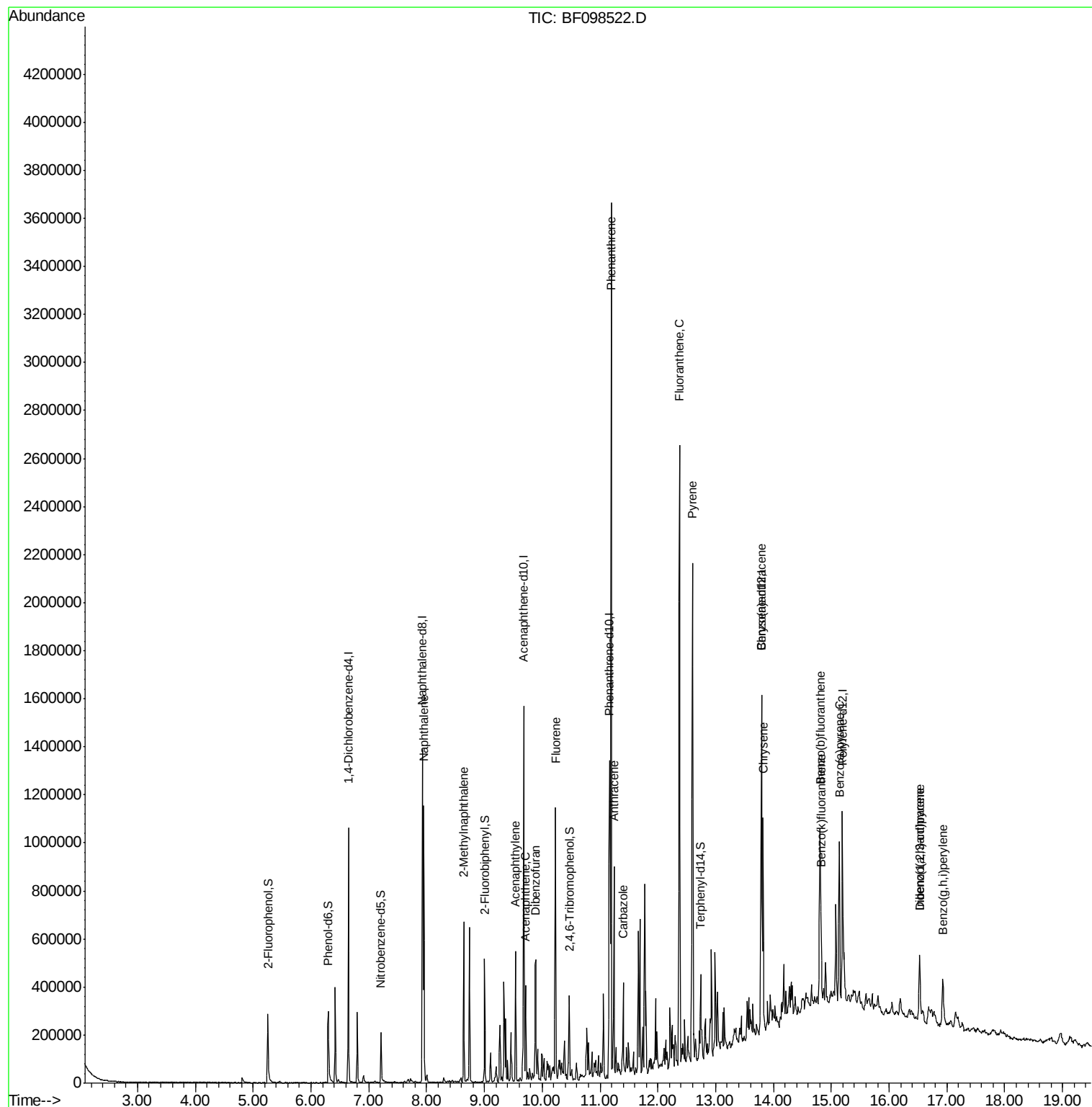
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091417\
Data File : BF098522.D
Acq On : 14 Sep 2017 11:58
Operator : SJ/JU
Sample : I5208-01DL 10X
Misc :
ALS Vial : 5 Sample Multiplier: 1

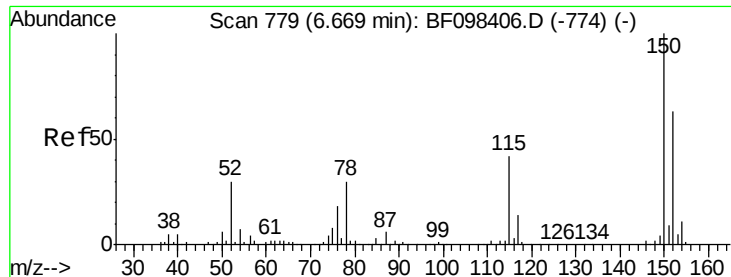
Instrument :
BNA_F
ClientSampleId :
CL-02-091117-ADL

Manual Integrations
APPROVED

Sohil
9/15/2017 5:43:31 PM

Quant Time: Sep 21 16:51:47 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 21 16:40:53 2017
Response via : Initial Calibration





#1

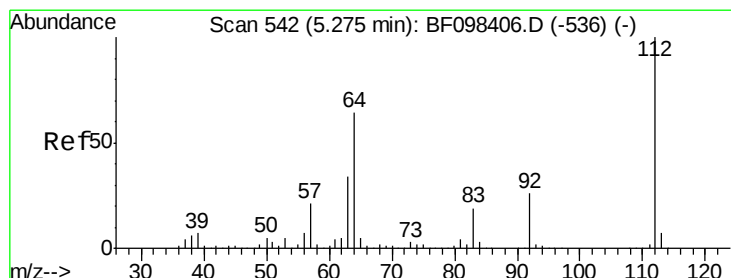
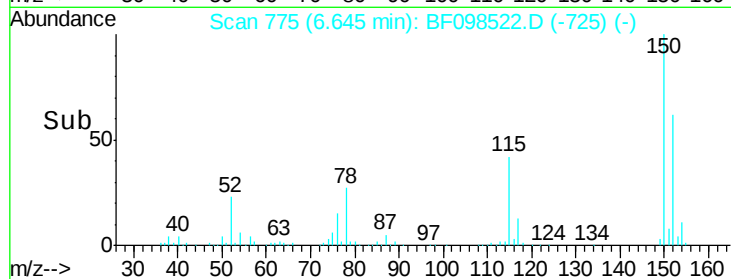
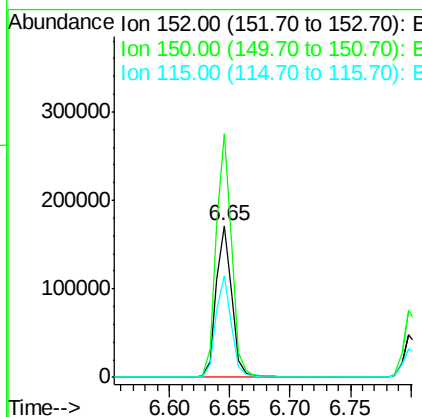
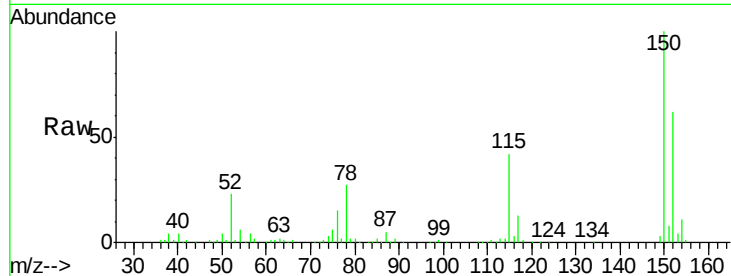
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 775
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-ADL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.4	126.2	189.2
115	67.1	52.2	78.2

Manual Integrations
APPROVED

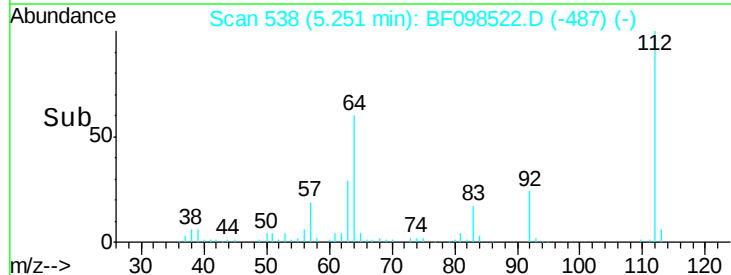
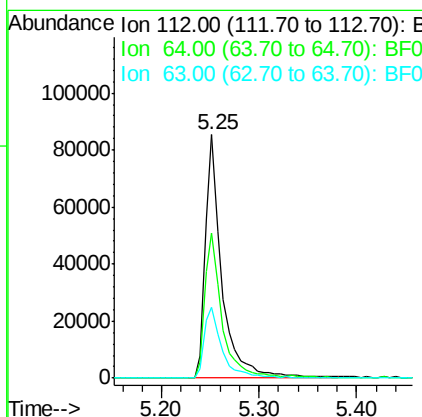
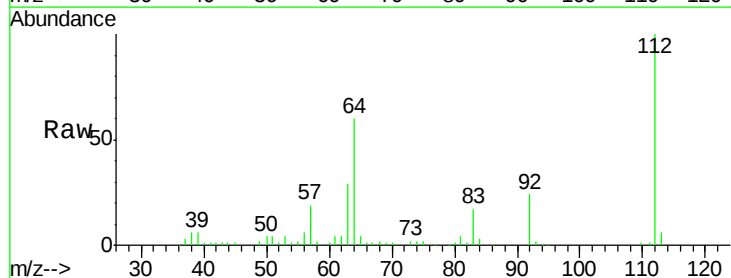
Sohil
9/15/2017 5:43:31 PM

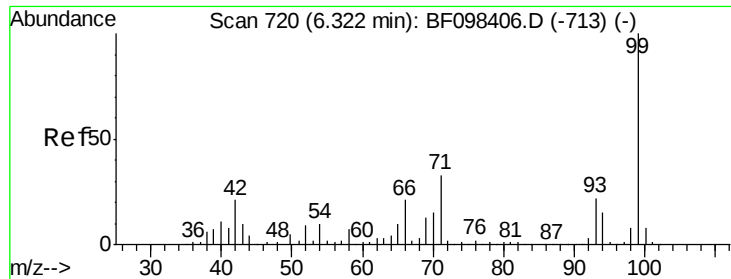


#5

2-Fluorophenol
Concen: 9.877 ng
RT: 5.25 min Scan# 538
Delta R.T. 0.00 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.7	46.0	69.0
63	29.2	23.4	35.0





#7

Phenol-d6

Concen: 9.920 ng

RT: 6.30 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF098522.D

Acq: 14 Sep 2017 11:58

Instrument :

BNA_F

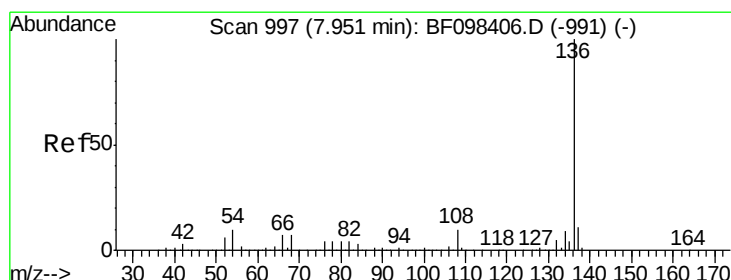
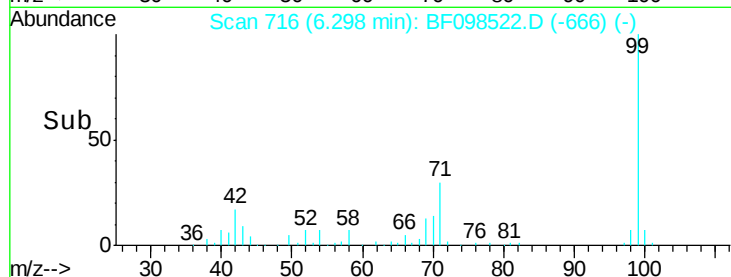
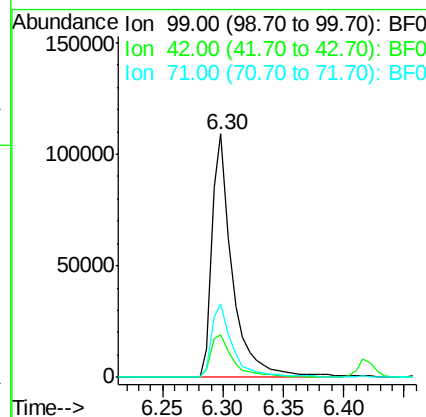
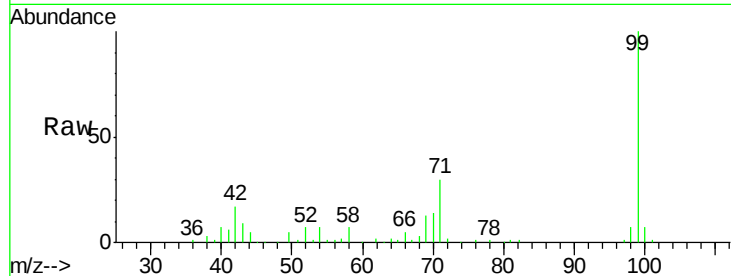
ClientSampleId :

CL-02-091117-ADL

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		128161		
42	17.3	13.5	20.3		
71	30.3	24.5	36.7		

Manual Integrations
APPROVED

Sohil
9/15/2017 5:43:31 PM



#21

Naphthalene-d8

Concen: 20.000 ng

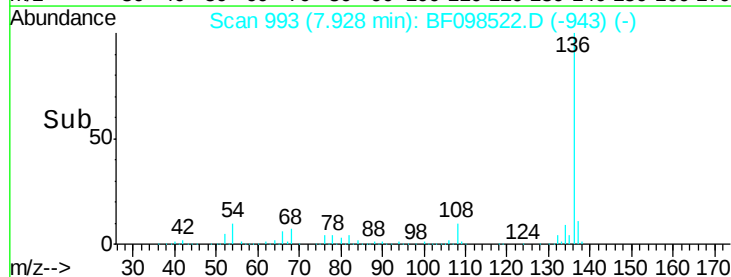
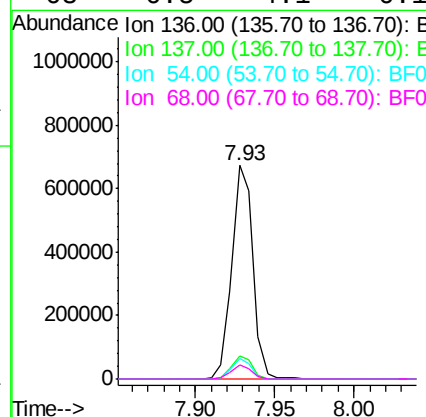
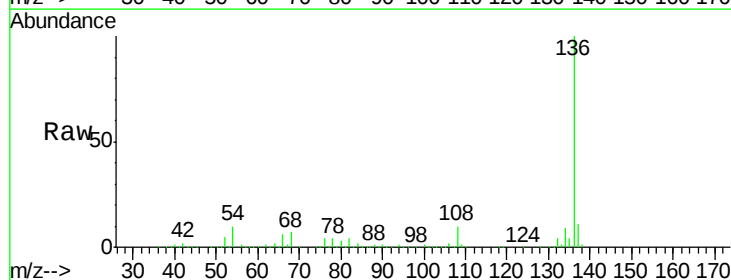
RT: 7.93 min Scan# 993

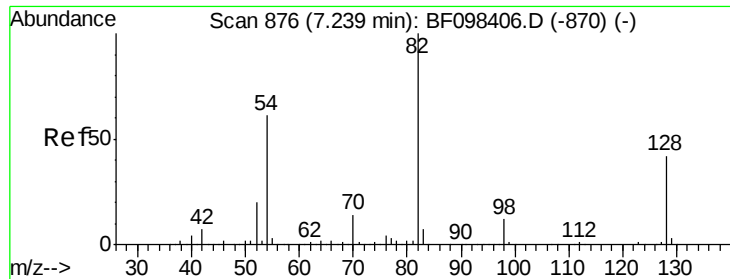
Delta R.T. -0.01 min

Lab File: BF098522.D

Acq: 14 Sep 2017 11:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		619674		
137	10.9	8.5	12.7		
54	9.9	4.9	7.3#		
68	6.5	4.1	6.1#		





#23

Nitrobenzene-d5

Concen: 6.647 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.01 min

Lab File: BF098522.D

Acq: 14 Sep 2017 11:58

Instrument :

BNA_F

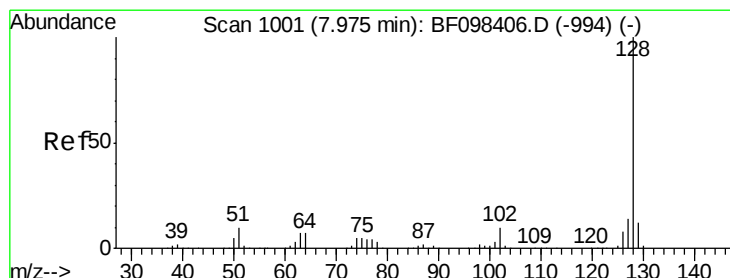
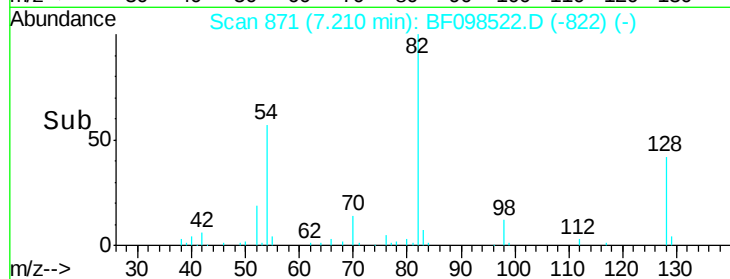
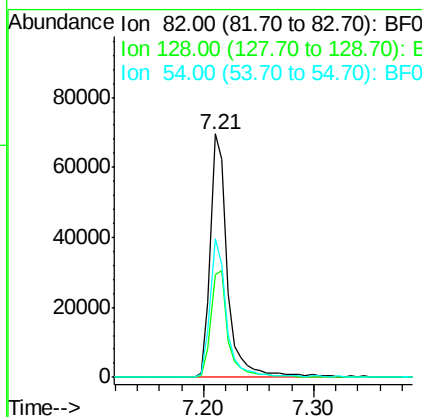
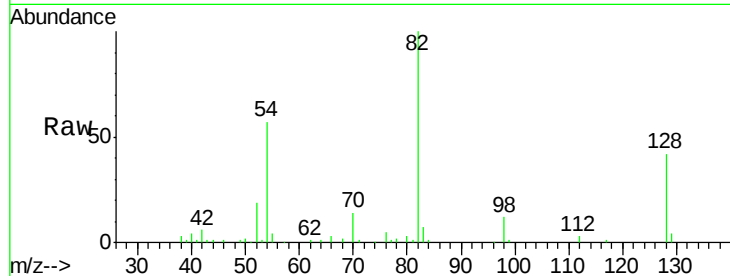
ClientSampleId :

CL-02-091117-ADL

Tgt Ion:	82	Resp:	73889
Ion Ratio	Lower	Upper	
82	100		
128	42.4	34.0	51.0
54	56.7	42.2	63.2

Manual Integrations
APPROVED

Sohil
9/15/2017 5:43:31 PM



#31

Naphthalene

Concen: 14.866 ng

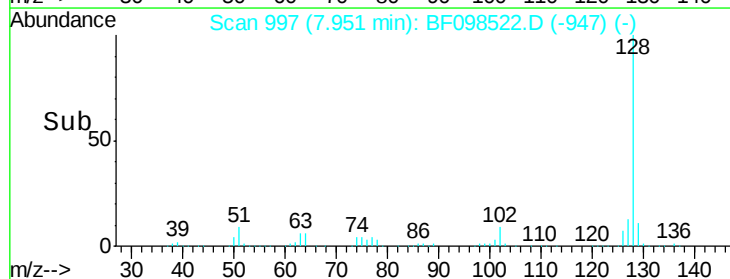
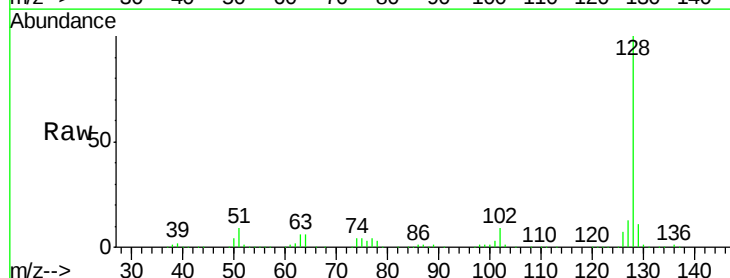
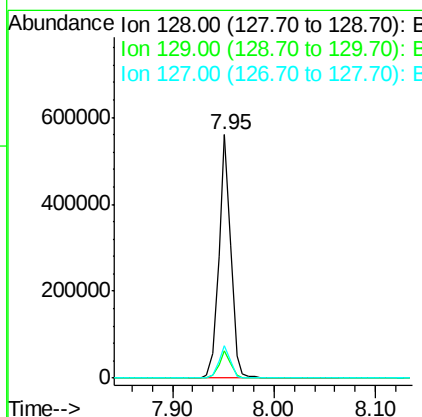
RT: 7.95 min Scan# 997

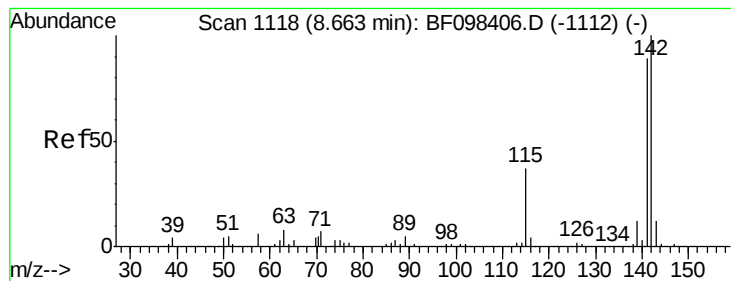
Delta R.T. -0.01 min

Lab File: BF098522.D

Acq: 14 Sep 2017 11:58

Tgt Ion:	128	Resp:	455417
Ion Ratio	Lower	Upper	
128	100		
129	11.1	9.0	13.6
127	13.1	10.8	16.2





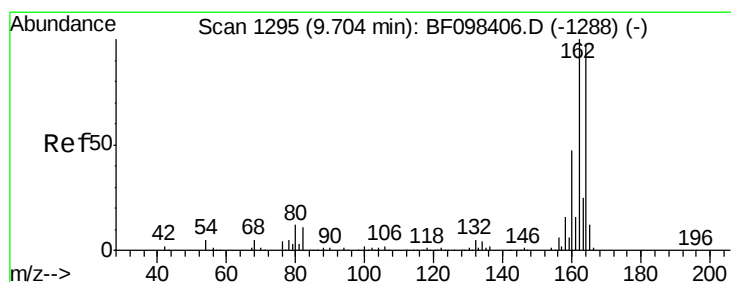
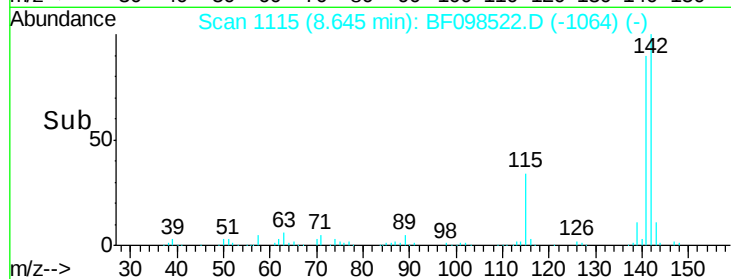
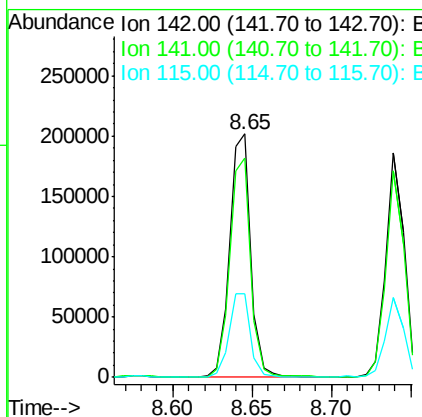
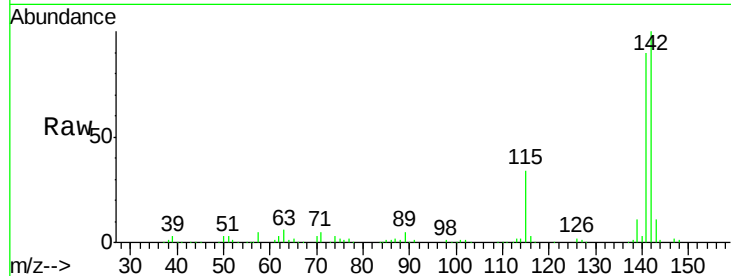
#37
2-Methylnaphthalene
Concen: 10.043 ng
RT: 8.65 min Scan# 1115
Delta R.T. 0.00 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-ADL

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	186359		
141	90.3	71.3	106.9	
115	34.2	27.1	40.7	

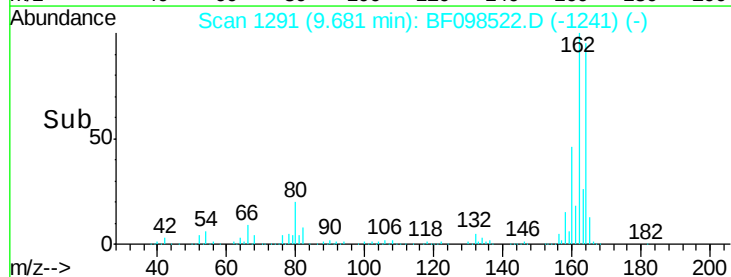
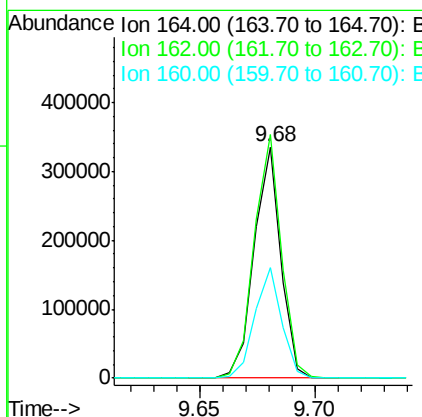
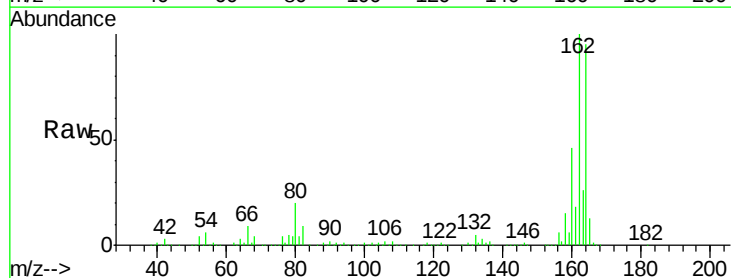
Manual Integrations
APPROVED

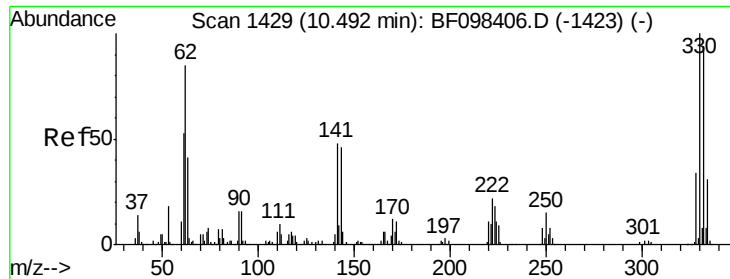
Sohil
9/15/2017 5:43:31 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.68 min Scan# 1291
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	271512		
162	105.4	82.6	123.8	
160	48.0	36.2	54.2	





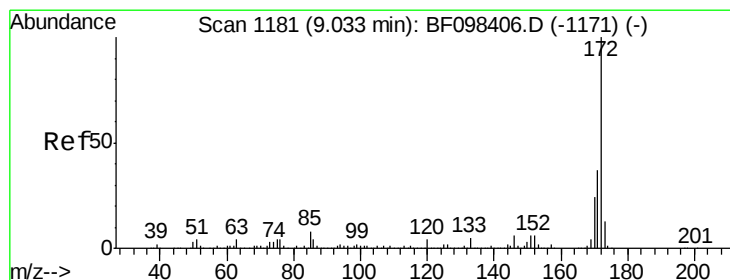
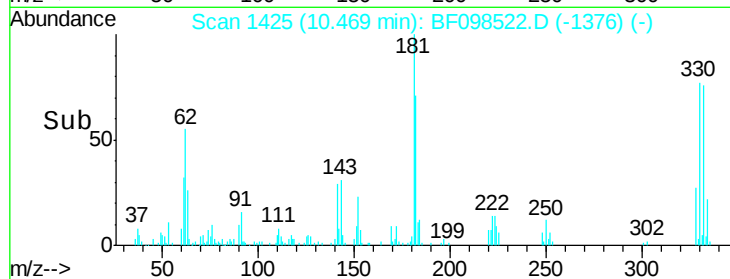
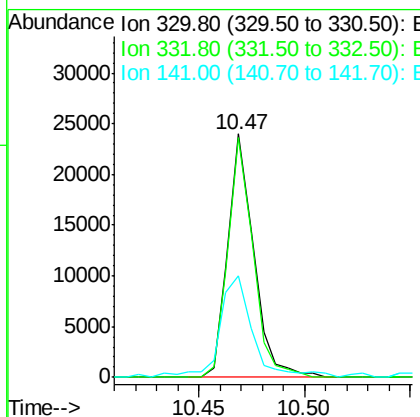
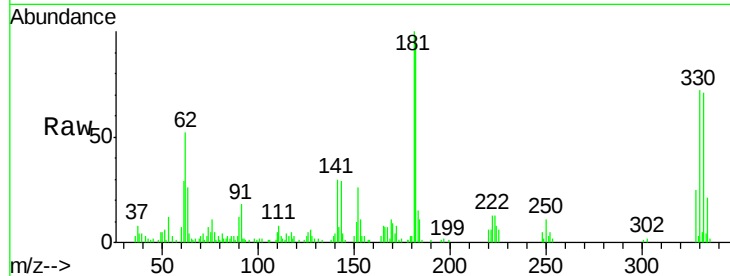
#41
 2,4,6-Tribromophenol
 Concen: 11.222 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-ADL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	20336		
332	96.1	76.6	115.0	
141	54.0	31.4	47.2	

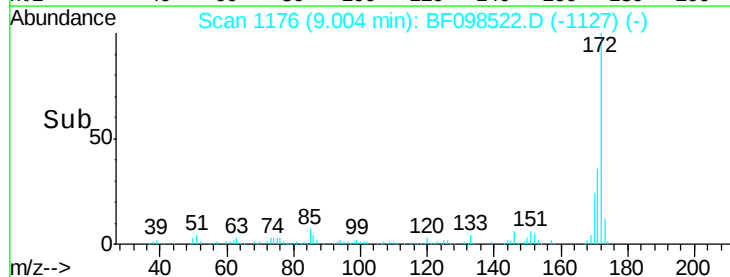
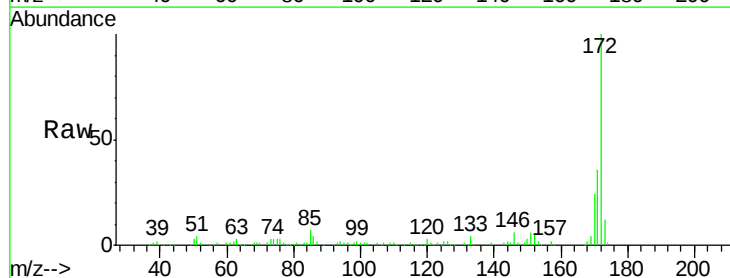
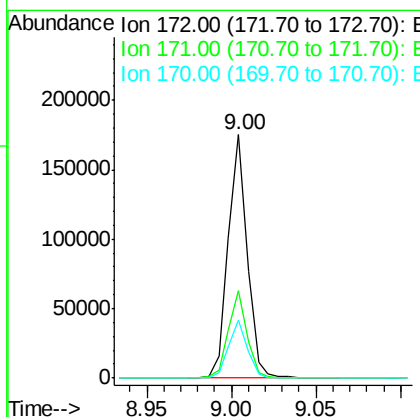
Manual Integrations
 APPROVED

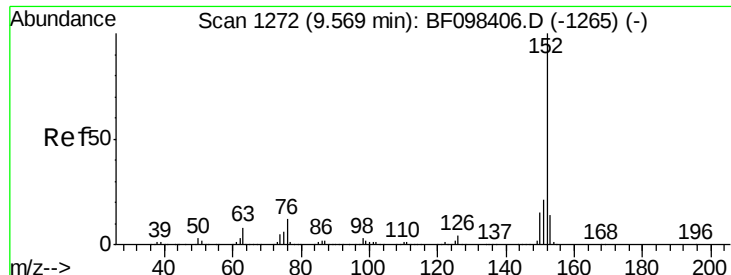
Sohil
 9/15/2017 5:43:31 PM



#44
 2-Fluorobiphenyl
 Concen: 8.560 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	137123		
171	35.7	29.6	44.4	
170	23.7	19.8	29.8	





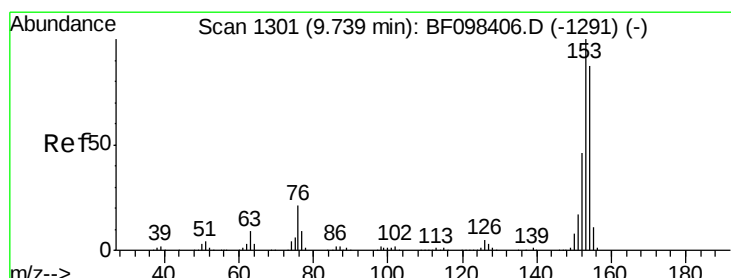
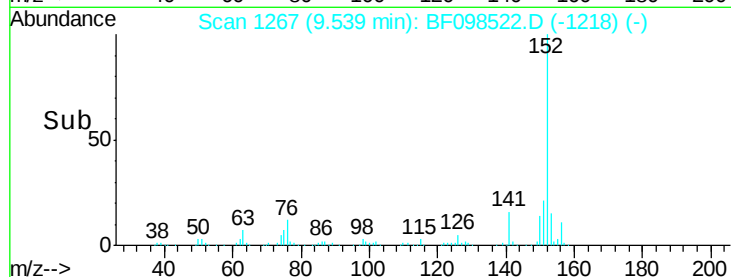
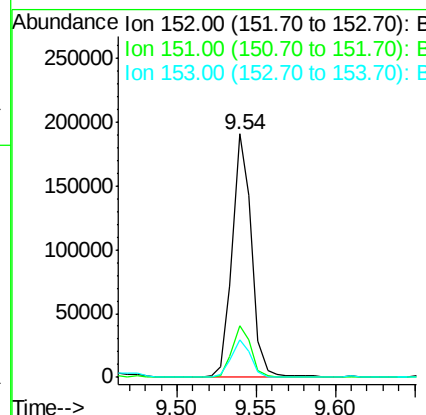
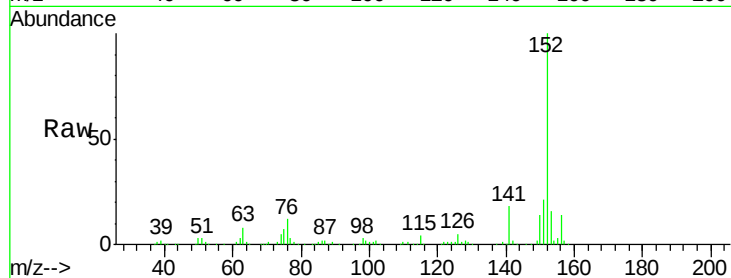
#48
Acenaphthylene
Concen: 6.250 ng
RT: 9.54 min Scan# 1267
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-ADL

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	161297		
151	21.3		16.8	25.2
153	15.6		10.8	16.2

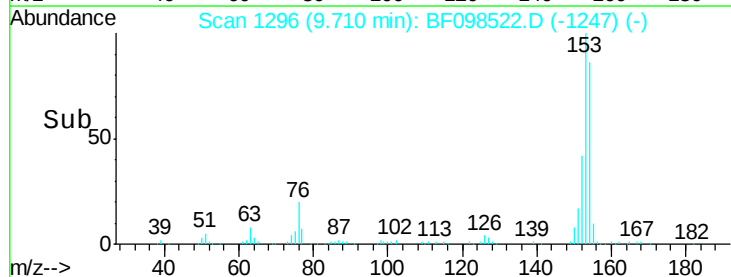
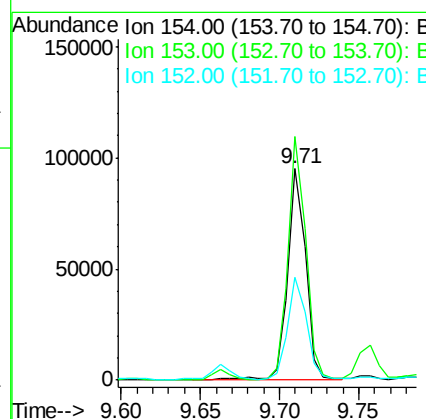
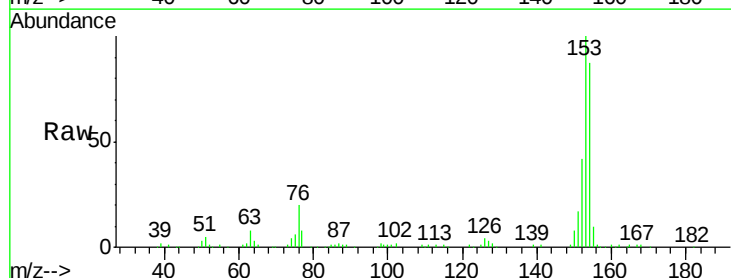
Manual Integrations
APPROVED

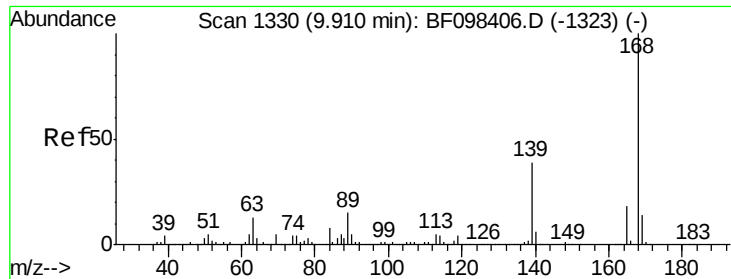
Sohil
9/15/2017 5:43:31 PM



#51
Acenaphthene
Concen: 4.592 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	75323		
153	115.2		90.5	135.7
152	48.9		43.6	65.4





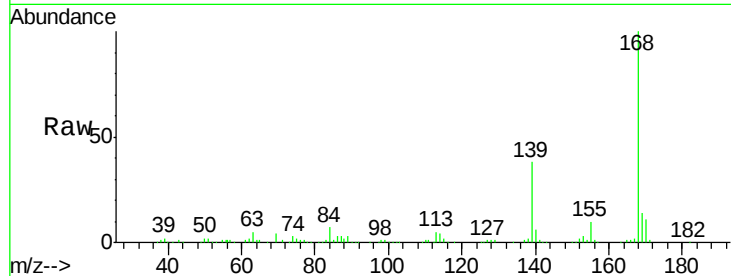
#54
Dibenzenofuran
Concen: 7.554 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-ADL

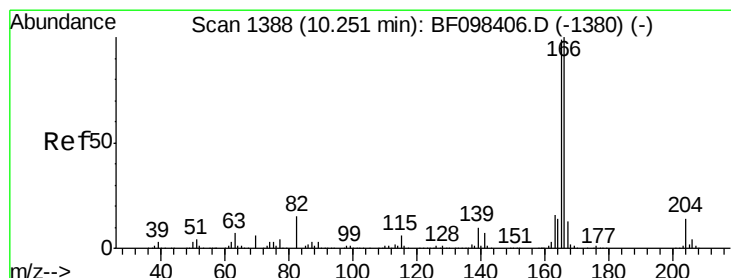
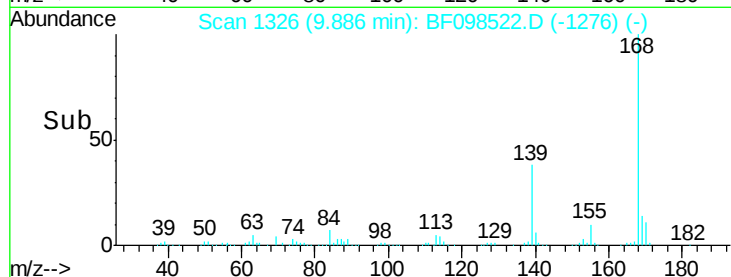
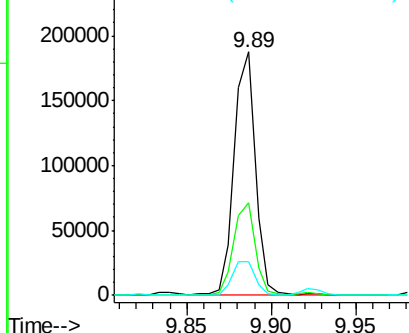
Tgt Ion	Ratio	Resp	Lower	Upper
168	100	163238		
139	38.2	30.6	45.8	
169	14.0	10.8	16.2	

Manual Integrations
APPROVED

Sohil
9/15/2017 5:43:31 PM

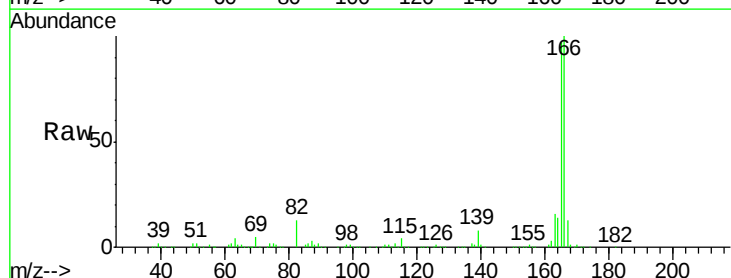


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

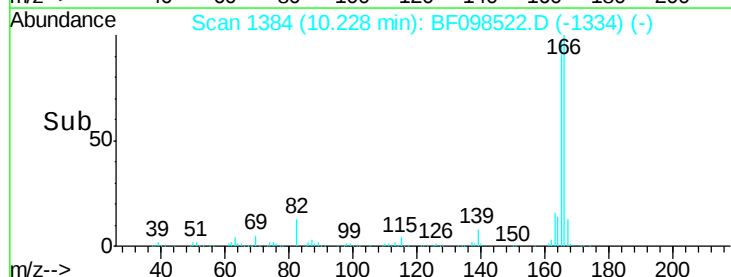
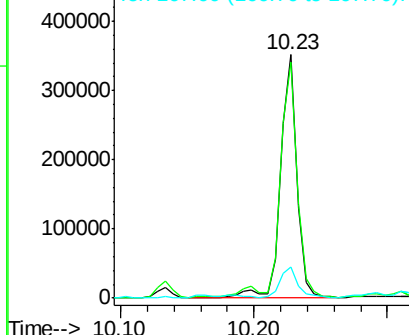


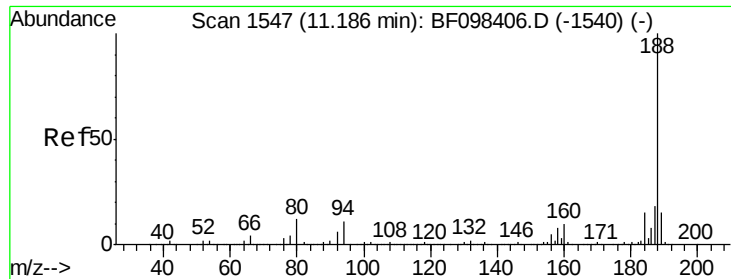
#57
Fluorene
Concen: 17.046 ng
RT: 10.23 min Scan# 1384
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	304896		
165	96.9	78.8	118.2	
167	12.9	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





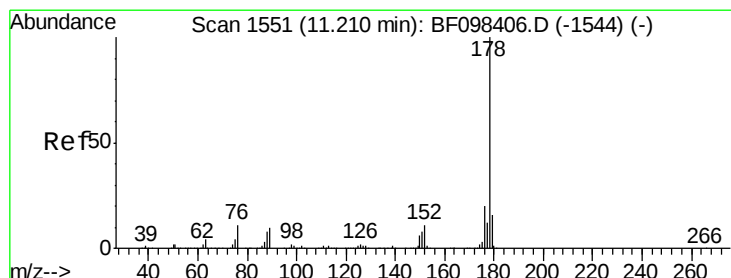
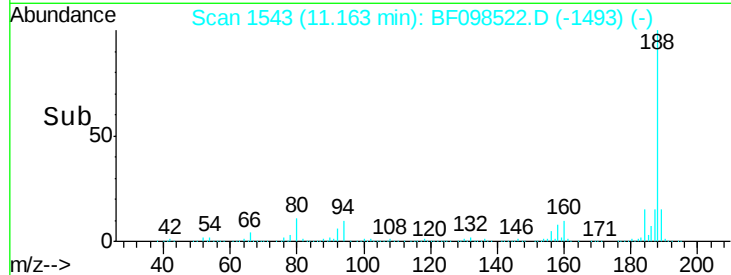
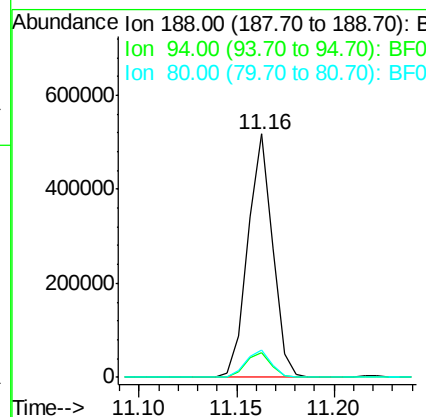
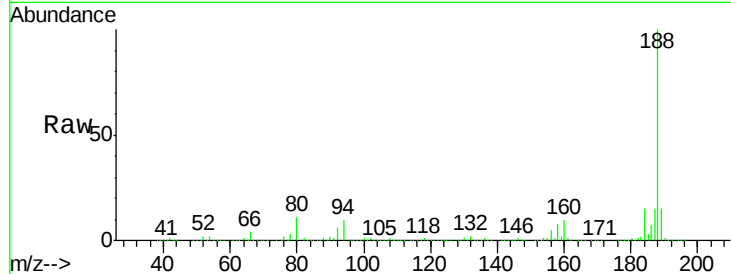
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.16 min Scan# 1543
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-ADL

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	455014		
94	10.3		9.4	14.2
80	11.3		10.2	15.2

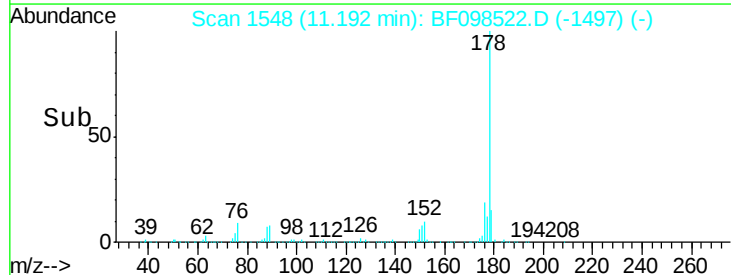
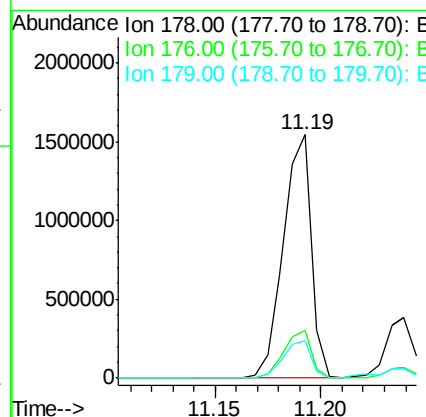
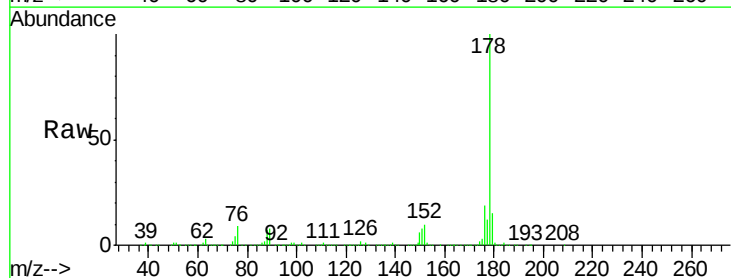
Manual Integrations
APPROVED

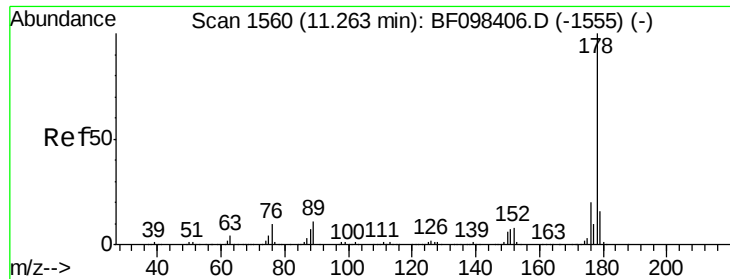
Sohil
9/15/2017 5:43:31 PM



#70
Phenanthrene
Concen: 59.141 ng
RT: 11.19 min Scan# 1548
Delta R.T. 0.00 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1426580		
176	19.5		16.2	24.4
179	15.4		12.6	19.0





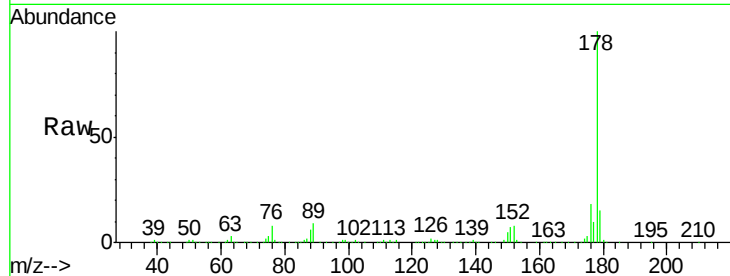
#71
 Anthracene
 Concen: 13.755 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-ADL

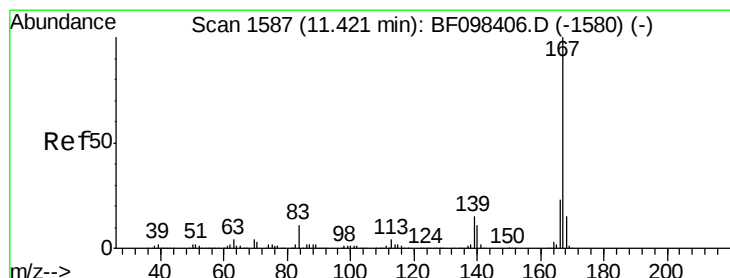
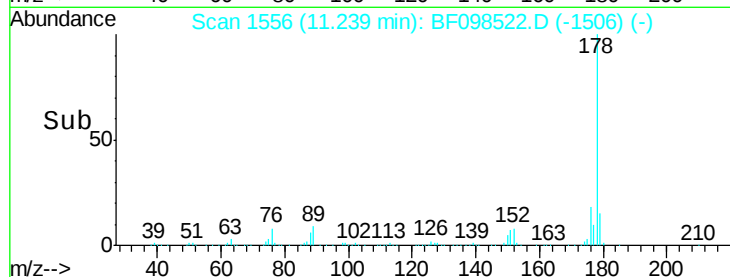
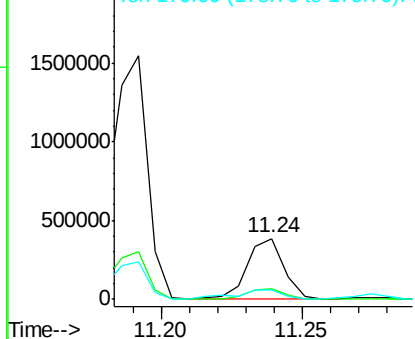
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.8	23.8
179	14.9	12.7	19.1

Manual Integrations
 APPROVED

Sohil
 9/15/2017 5:43:31 PM



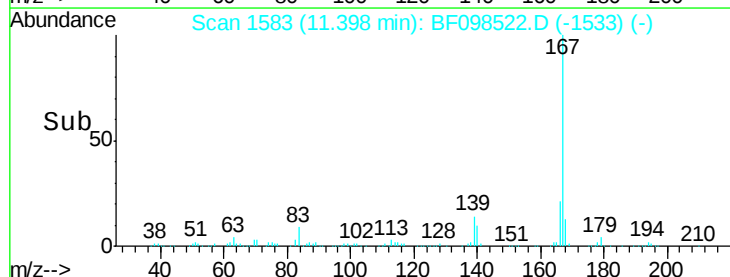
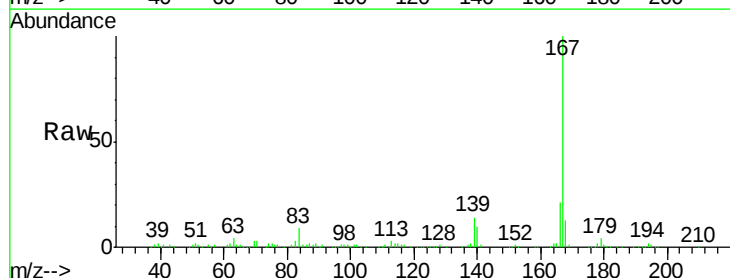
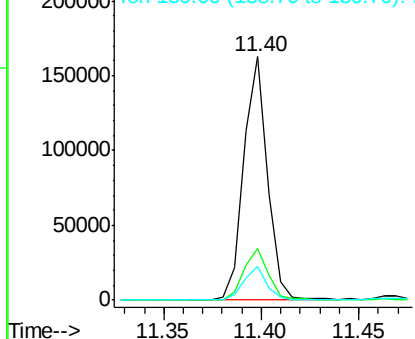
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

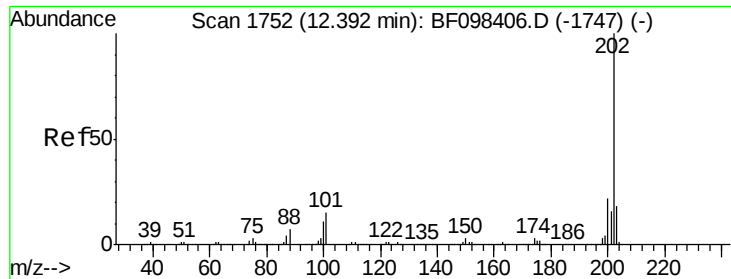


#72
 Carbazole
 Concen: 5.938 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	18.1	27.1
139	13.6	11.7	17.5

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 39.582 ng

RT: 12.37 min Scan# 1749

Delta R.T. -0.01 min

Lab File: BF098522.D

Acq: 14 Sep 2017 11:58

Instrument :

BNA_F

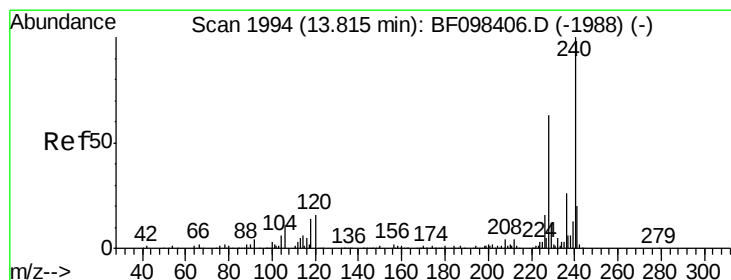
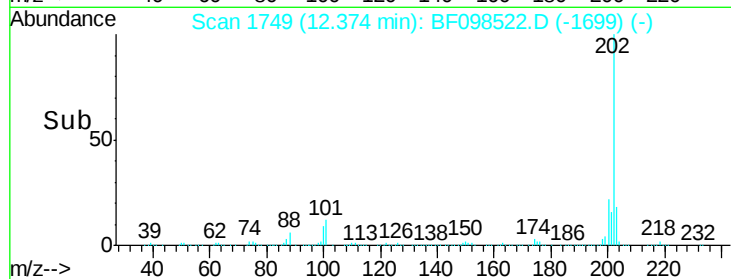
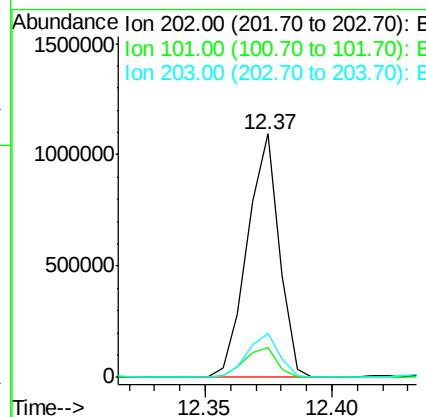
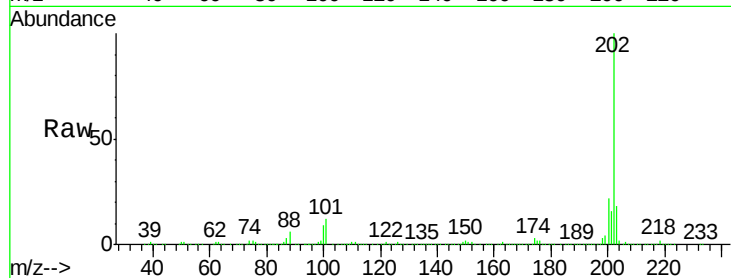
ClientSampleId :

CL-02-091117-ADL

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		955806		
101	12.3	0.0	33.2		
203	18.0	0.0	38.1		

Manual Integrations
APPROVED

Sohil
9/15/2017 5:43:31 PM



#75

Chrysene-d12

Concen: 20.000 ng

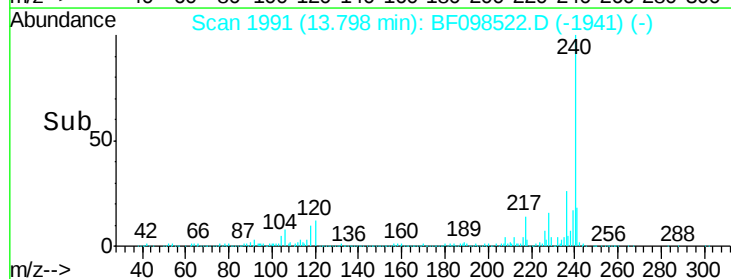
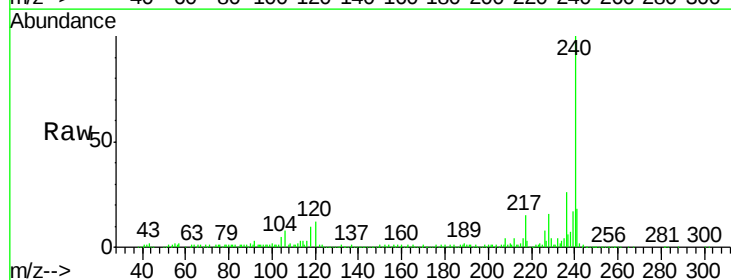
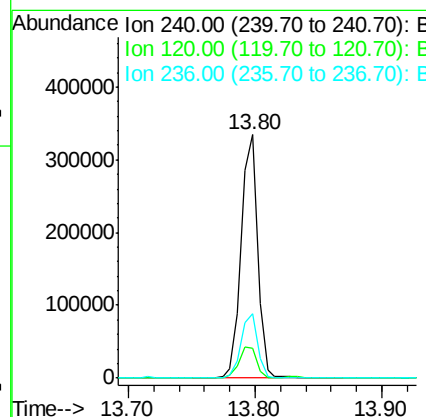
RT: 13.80 min Scan# 1991

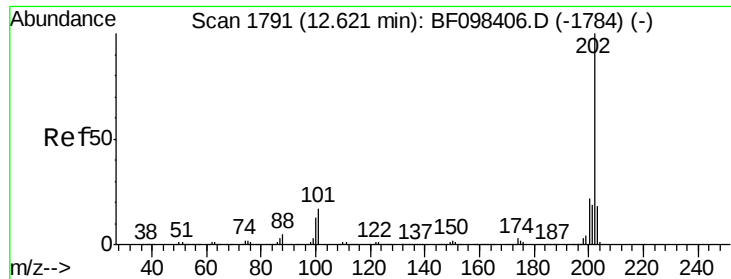
Delta R.T. -0.01 min

Lab File: BF098522.D

Acq: 14 Sep 2017 11:58

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		300681		
120	12.4	5.8	8.8#		
236	26.5	20.5	30.7		





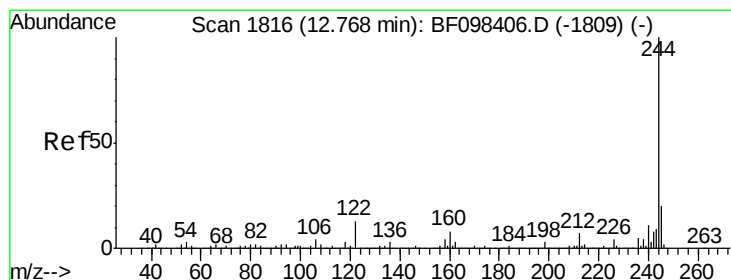
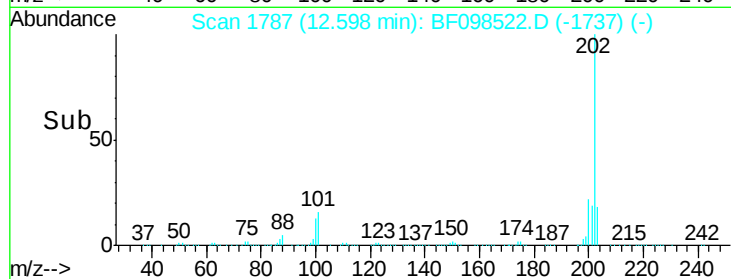
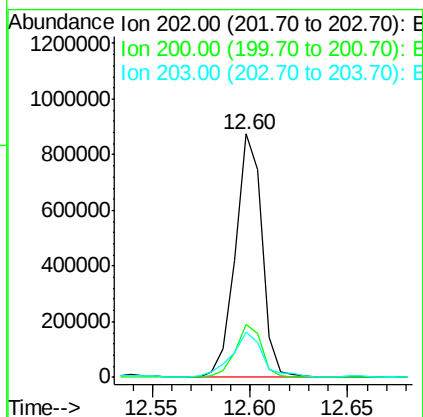
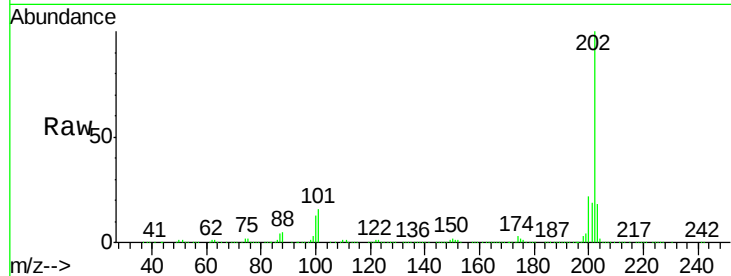
#77
 Pyrene
 Concen: 34.839 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-ADL

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.6	17.6	26.4	
203	18.4	14.4	21.6	

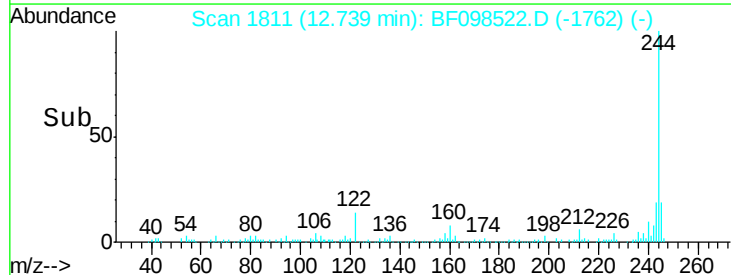
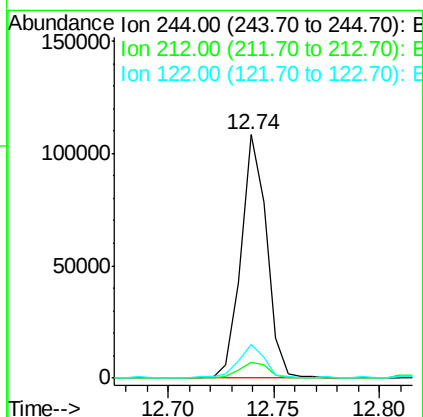
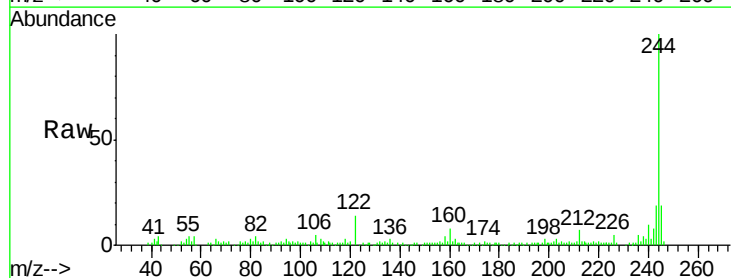
Manual Integrations
 APPROVED

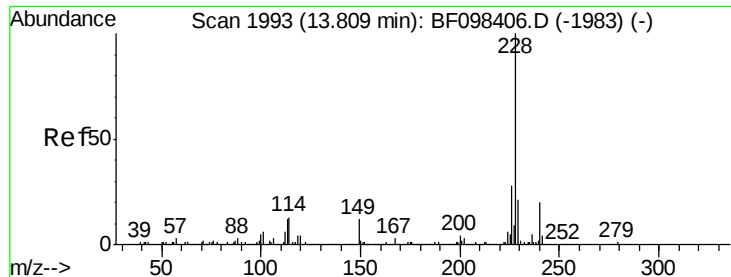
Sohil
 9/15/2017 5:43:31 PM



#78
 Terphenyl-d14
 Concen: 6.504 ng
 RT: 12.74 min Scan# 1811
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	6.6	6.0	9.0	
122	13.6	10.3	15.5	





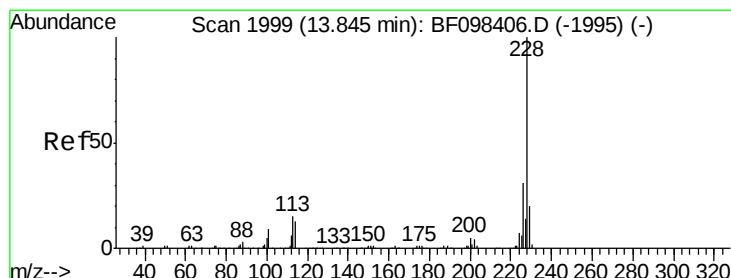
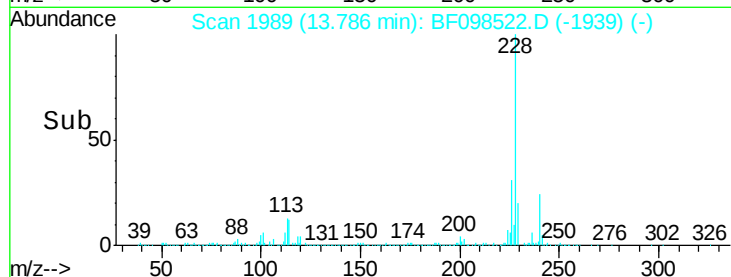
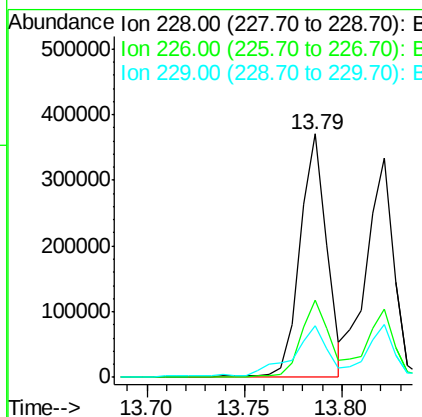
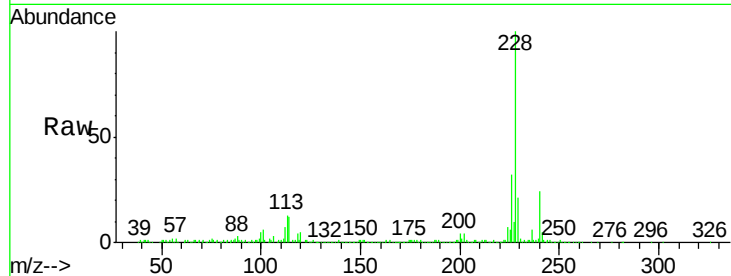
#80
Benzo(a)anthracene
Concen: 19.843 ng
RT: 13.79 min Scan# 1989
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-ADL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.0	22.6	33.8
229	21.1	16.3	24.5

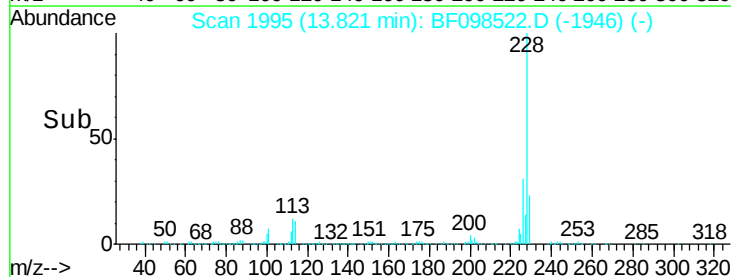
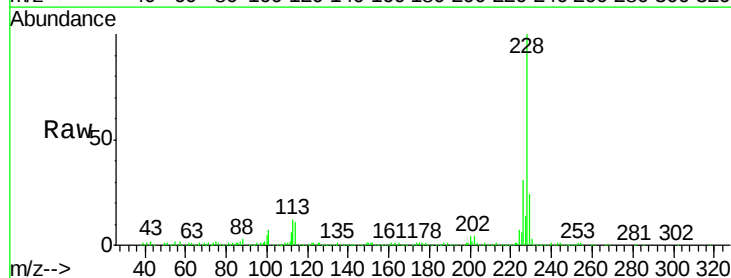
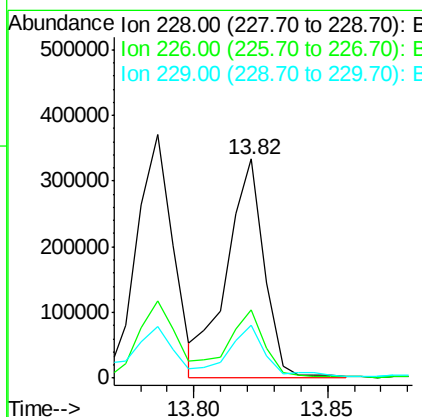
Manual Integrations
APPROVED

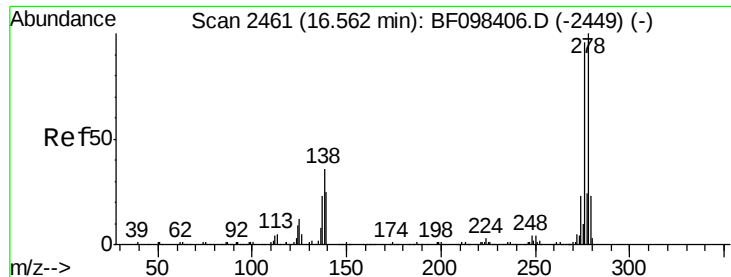
Sohil
9/15/2017 5:43:31 PM



#82
Chrysene
Concen: 18.542 ng m
RT: 13.82 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.9	37.3
229	23.9	15.8	23.6#





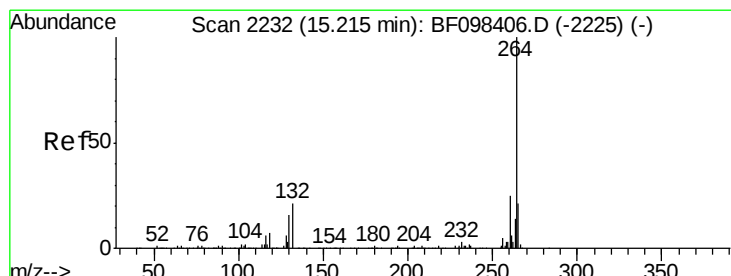
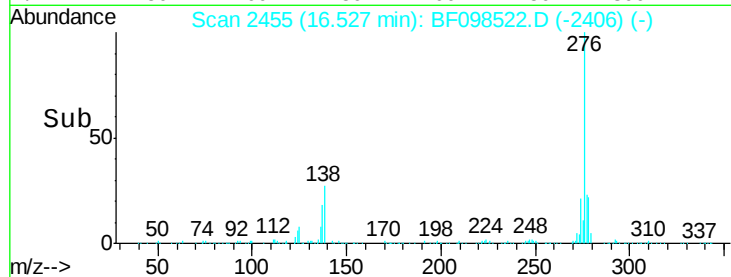
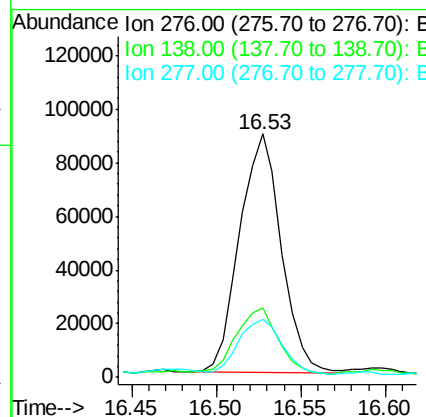
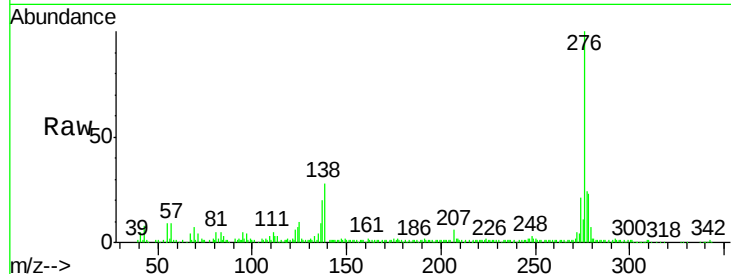
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.178 ng
 RT: 16.53 min Scan# 2455
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-ADL

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	152247		
138	29.5	27.8	41.6	
277	24.6	20.2	30.4	

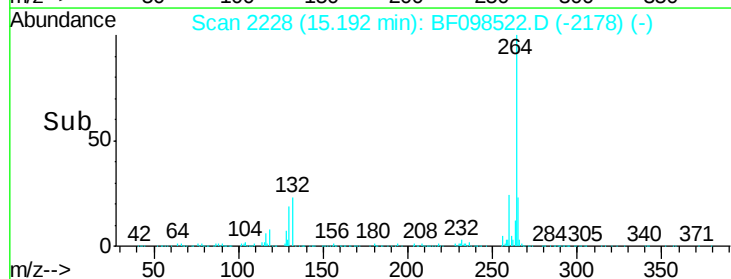
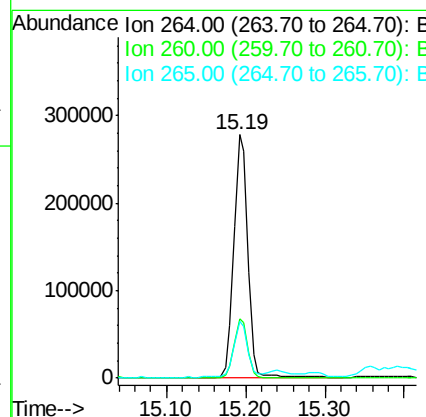
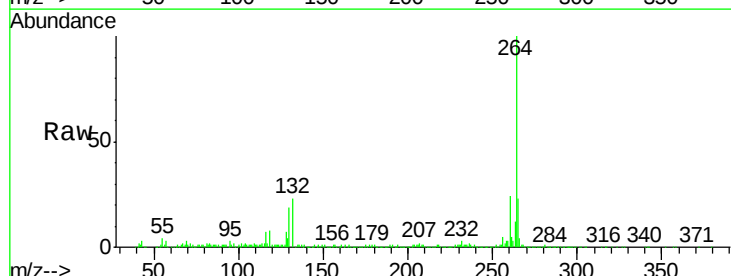
Manual Integrations
 APPROVED

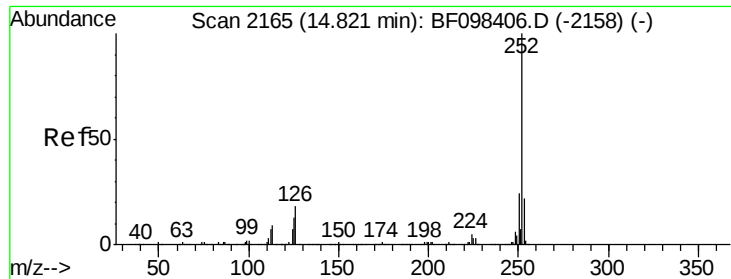
Sohil
 9/15/2017 5:43:31 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.19 min Scan# 2228
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	344939		
260	24.5	19.5	29.3	
265	23.3	17.2	25.8	





#87

Benzo(b)fluoranthene

Concen: 16.763 ng m

RT: 14.80 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF098522.D

Acq: 14 Sep 2017 11:58

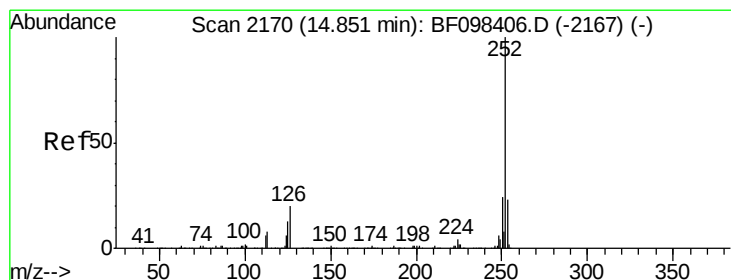
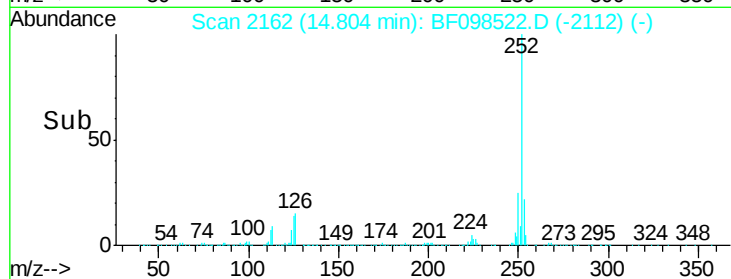
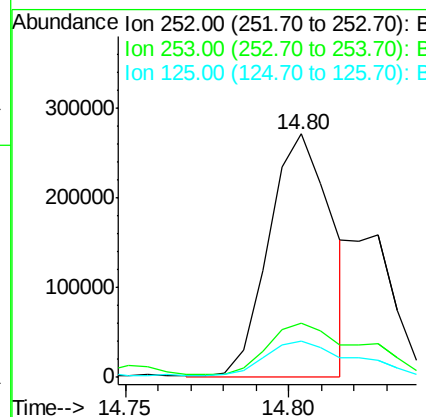
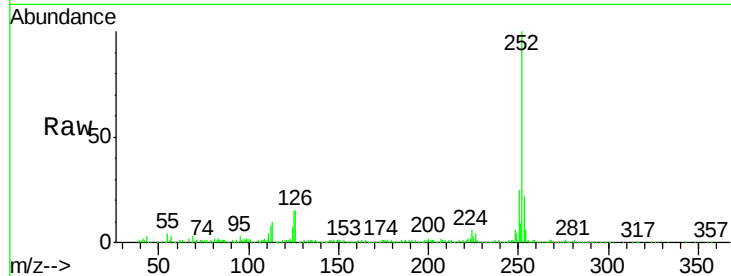
Instrument :
BNA_F

ClientSampleId :
CL-02-091117-ADL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	14.8	9.8	14.8#

Manual Integrations
APPROVED

Sohil
9/15/2017 5:43:31 PM



#88

Benzo(k)fluoranthene

Concen: 7.251 ng m

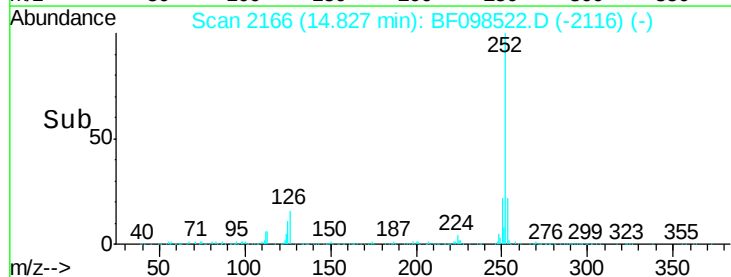
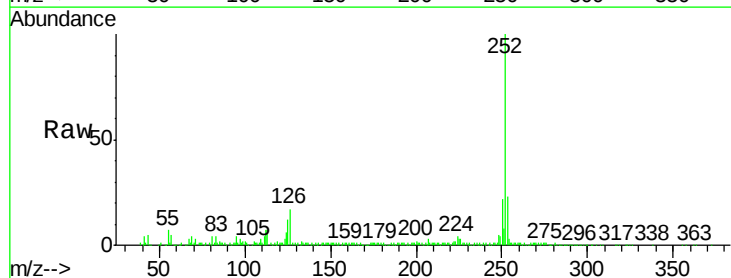
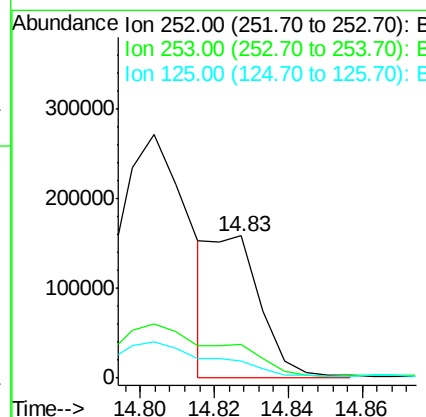
RT: 14.83 min Scan# 2166

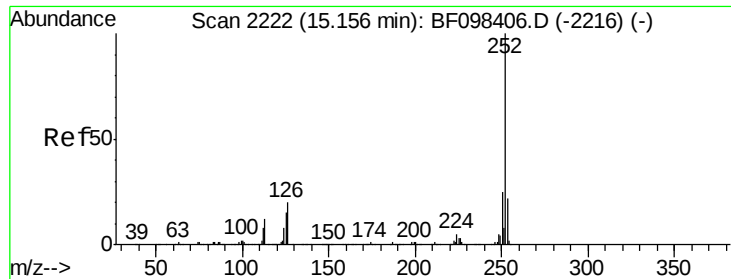
Delta R.T. -0.01 min

Lab File: BF098522.D

Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	12.0	13.1	19.7#





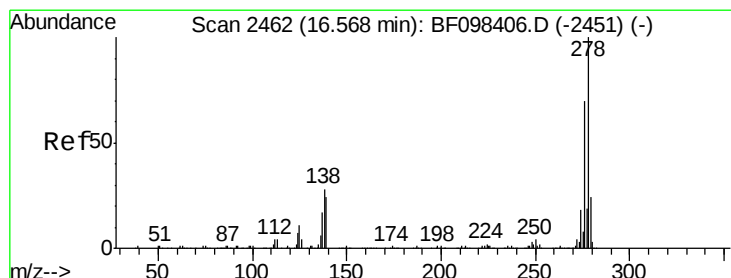
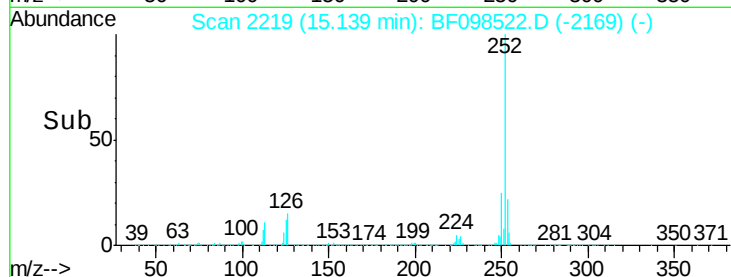
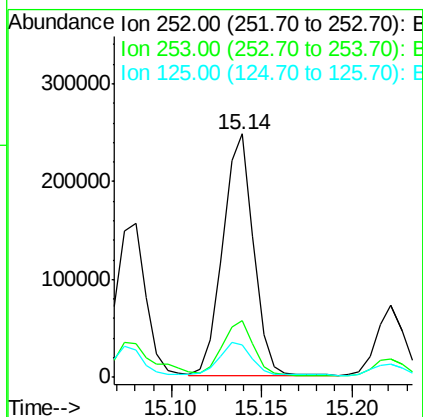
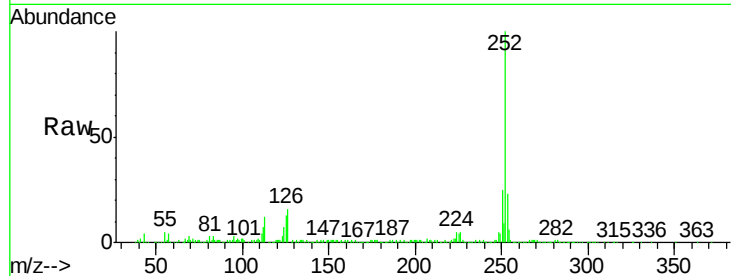
#89
Benzo(a)pyrene
Concen: 15.209 ng
RT: 15.14 min Scan# 2219
Delta R.T. -0.01 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-ADL

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	293868		
253	23.2	17.5	26.3	
125	13.2	11.0	16.4	

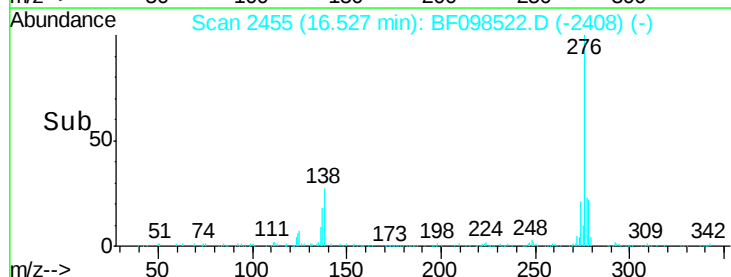
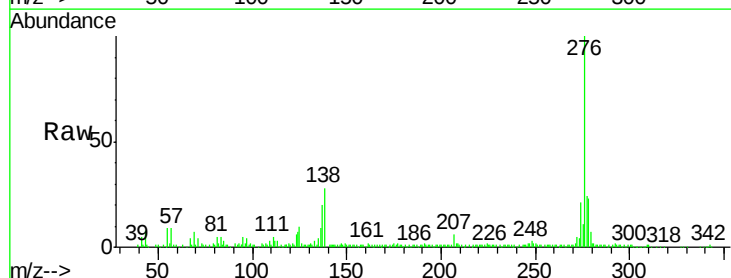
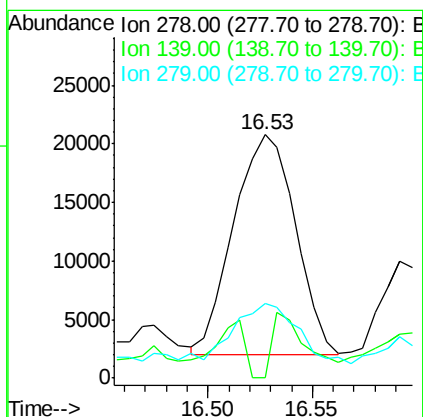
Manual Integrations
APPROVED

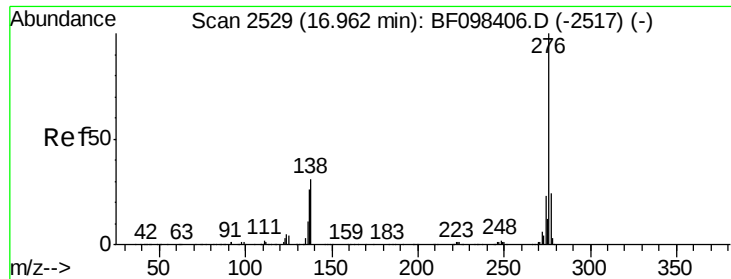
Sohil
9/15/2017 5:43:31 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.744 ng m
RT: 16.53 min Scan# 2455
Delta R.T. -0.02 min
Lab File: BF098522.D
Acq: 14 Sep 2017 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	38563		
139	0.0	16.6	24.8#	
279	30.4	19.3	28.9#	





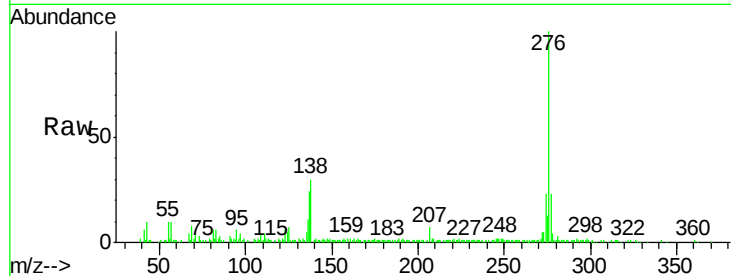
#91
 Benzo(g,h,i)perylene
 Concen: 9.871 ng
 RT: 16.93 min Scan# 2523
 Delta R.T. -0.01 min
 Lab File: BF098522.D
 Acq: 14 Sep 2017 11:58

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-ADL

Tgt Ion:	276	Resp:	139546
Ion Ratio		Lower	Upper
276	100		
277	22.9	18.6	28.0
138	30.0	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 9/15/2017 5:43:31 PM



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

