

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020218\
 Data File : BF102703.D
 Acq On : 2 Feb 2018 12:43
 Operator : SJ/JU
 Sample : J1405-02DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-04(CB#3-LINE-BOTTOM@4)DL

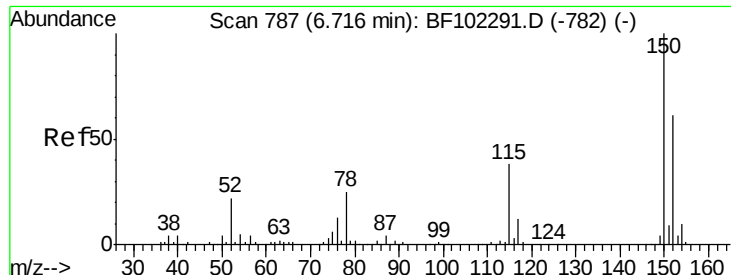
Manual Integrations
 APPROVED

Sohil
 2/2/2018 5:41:49 PM

Quant Time: Feb 02 14:03:14 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 31 18:38:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	153083	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	652618	20.00	ng	-0.01
38) Acenaphthene-d10	9.72	164	275772	20.00	ng	-0.02
63) Phenanthrene-d10	11.22	188	405582	20.00	ng	-0.01
75) Chrysene-d12	13.86	240	247912	20.00	ng	-0.01
86) Perylene-d12	15.29	264	300961	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	89299m	8.84	ng	0.06
7) Phenol-d6	6.40	99	115818	9.52	ng	0.04
23) Nitrobenzene-d5	7.27	82	72172	6.36	ng	0.00
41) 2,4,6-Tribromophenol	10.53	330	21109	7.73	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	153433	8.18	ng	-0.02
78) Terphenyl-d14	12.79	244	93857	8.53	ng	-0.02
Target Compounds						Qvalue
51) Acenaphthene	9.76	154	117377	6.731	ng	98
54) Dibenzofuran	9.93	168	113947	4.828	ng	99
57) Fluorene	10.27	166	156342	8.360	ng	100
70) Phenanthrene	11.24	178	1043900	44.169	ng	99
71) Anthracene	11.29	178	252588	10.471	ng	97
72) Carbazole	11.46	167	139260	5.917	ng	98
74) Fluoranthene	12.43	202	923893	38.334	ng	99
77) Pyrene	12.66	202	777005	40.537	ng	99
80) Benzo(a)anthracene	13.84	228	341834	22.396	ng	99
82) Chrysene	13.89	228	335511	21.646	ng	97
85) Indeno(1,2,3-cd)pyrene	16.69	276	277446	21.675	ng	92
87) Benzo(b)fluoranthene	14.88	252	473581m	24.278	ng	
88) Benzo(k)fluoranthene	14.90	252	155790m	8.453	ng	
89) Benzo(a)pyrene	15.23	252	350575	19.927	ng	# 95
90) Dibenzo(a,h)anthracene	16.69	278	64626m	4.535	ng	
91) Benzo(g,h,i)perylene	17.11	276	281298	19.991	ng	93

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



#1

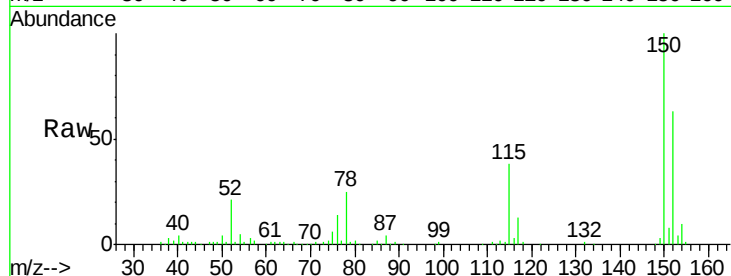
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.6	186.8
115	59.4	50.1	75.1

Manual Integrations
APPROVED

Sohil
2/2/2018 5:41:49 PM

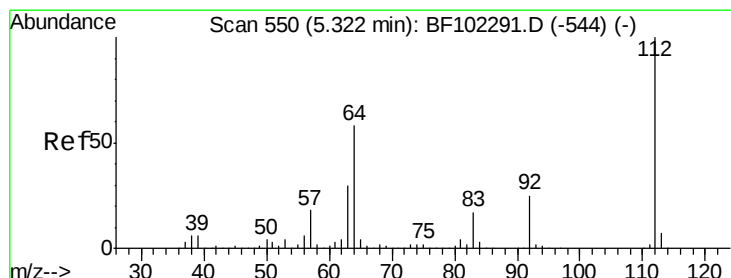
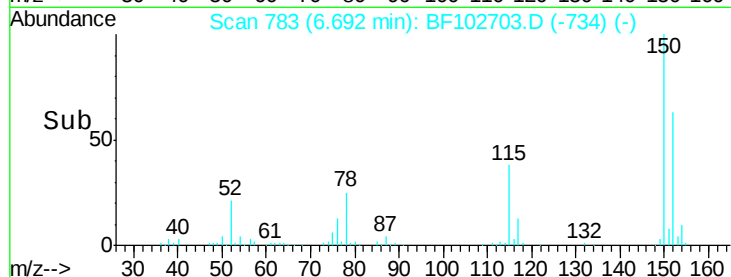
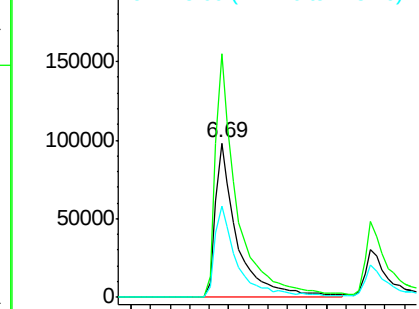


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

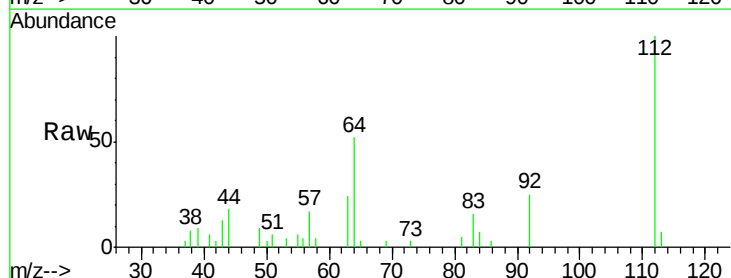
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 8.845 ng m
RT: 5.37 min Scan# 559
Delta R.T. 0.06 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.5	47.9	71.9
63	23.9	23.7	35.5

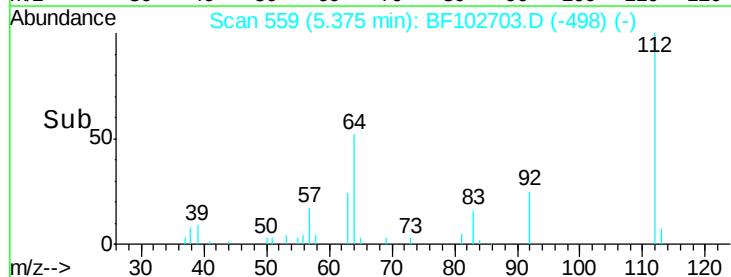
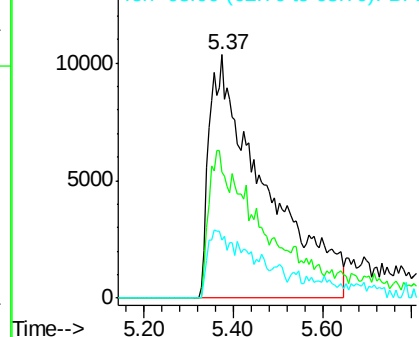


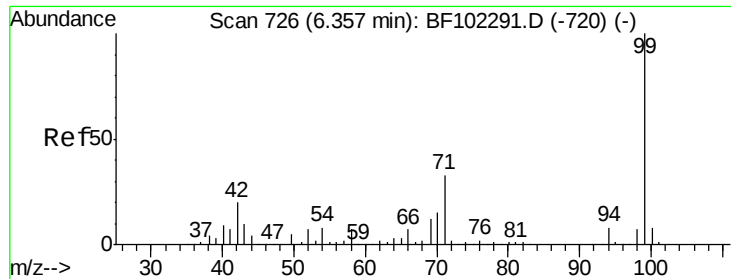
Abundance

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: 9.515 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.04 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

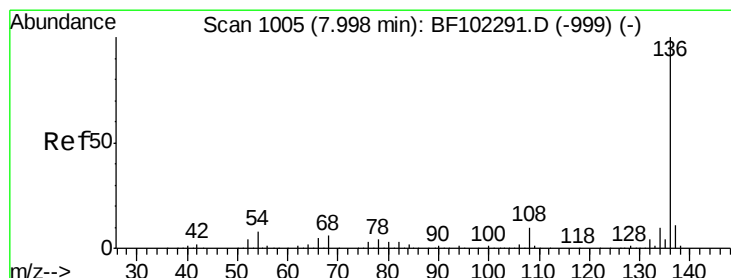
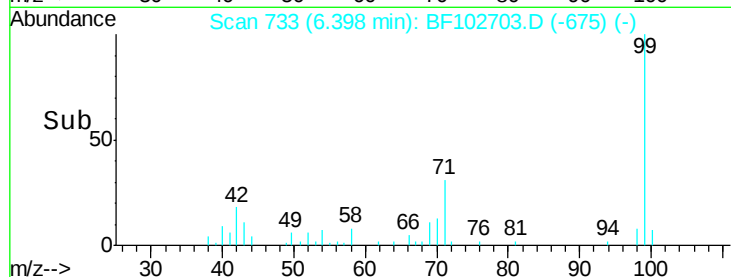
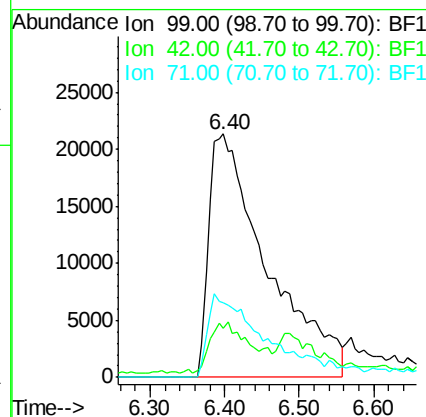
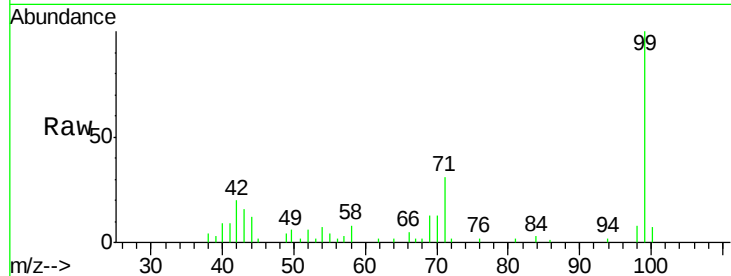
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion:	99	Resp:	115818
Ion Ratio	Lower	Upper	
99	100		
42	20.4	14.5	21.7
71	30.6	25.4	38.0

Manual Integrations
APPROVED

Sohil
2/2/2018 5:41:49 PM



#21

Naphthalene-d8

Concen: 20.000 ng

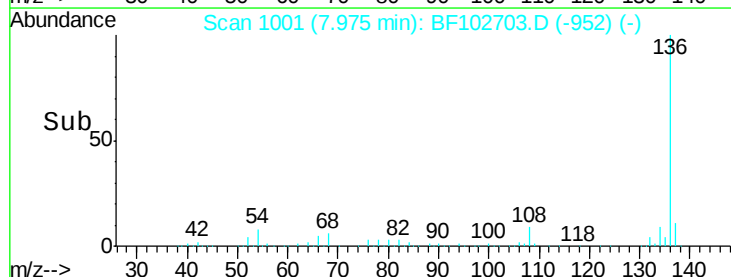
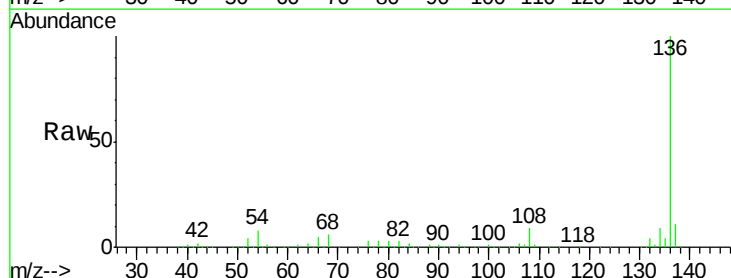
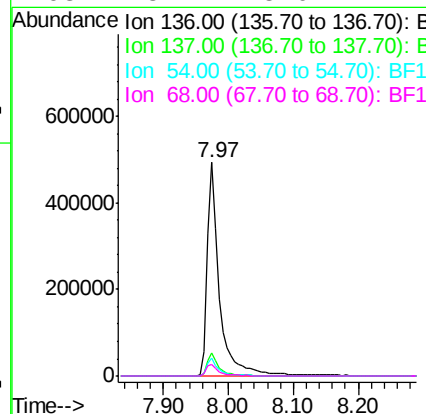
RT: 7.97 min Scan# 1001

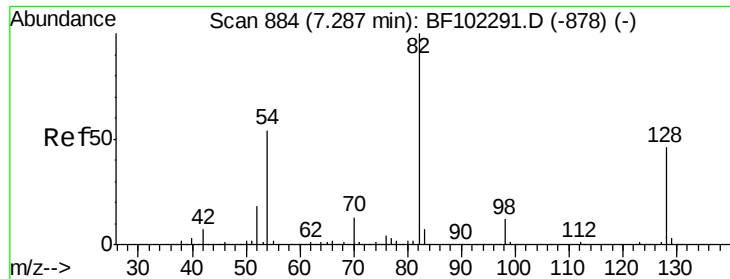
Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Tgt Ion:	136	Resp:	652618
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	8.3	6.6	9.8
68	5.7	5.0	7.4





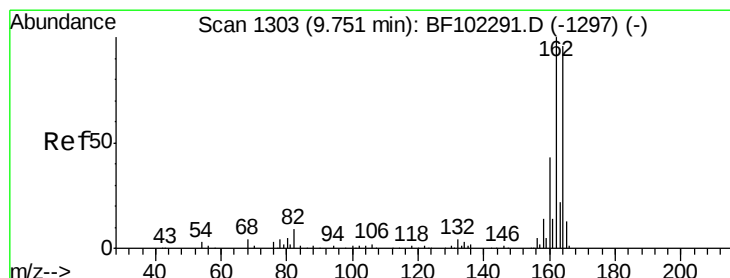
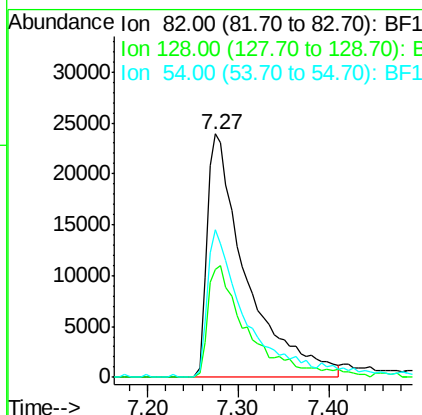
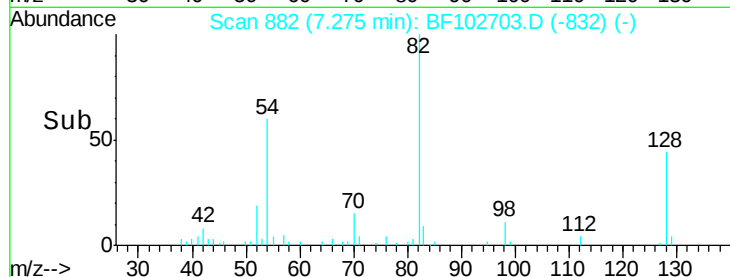
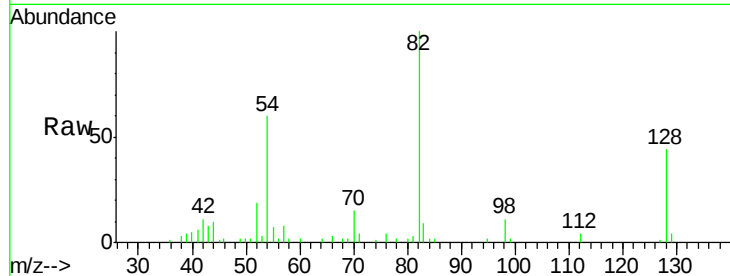
#23
Nitrobenzene-d5
Concen: 6.355 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion	82	Resp	72172
Ion Ratio	100	Lower	Upper
82	100		
128	44.5	36.1	54.1
54	60.5	41.4	62.2

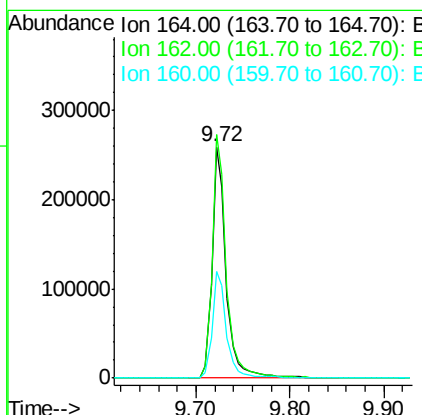
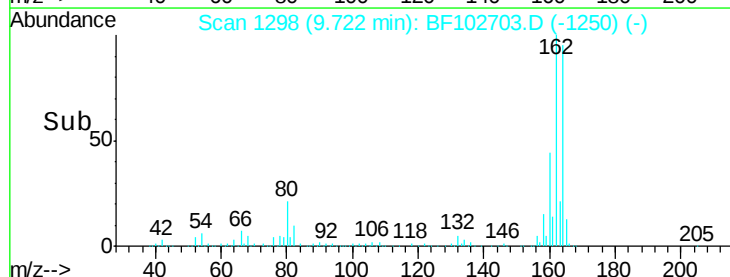
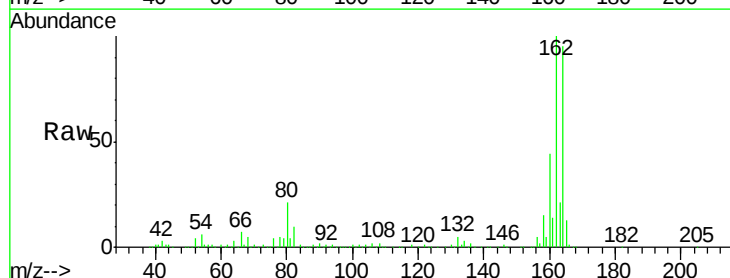
Manual Integrations
APPROVED

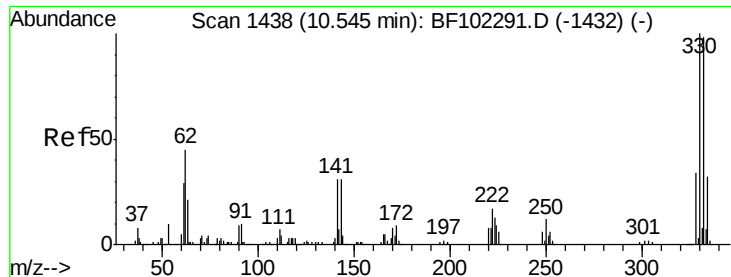
Sohil
2/2/2018 5:41:49 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.02 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion	164	Resp	275772
Ion Ratio	100	Lower	Upper
164	100		
162	105.3	86.1	129.1
160	46.0	38.3	57.5





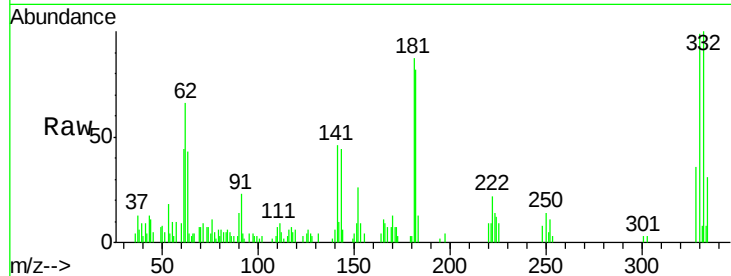
#41
 2,4,6-Tribromophenol
 Concen: 7.725 ng
 RT: 10.53 min Scan# 1435
 Delta R.T. -0.01 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Instrument :
 BNA_F
 ClientSampleId :
 TP-04(CB#3-LINE-BOTTOM@4)DL

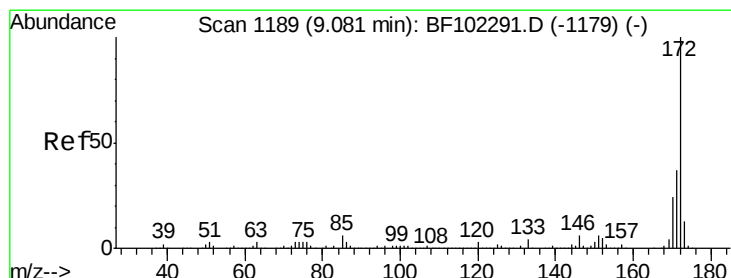
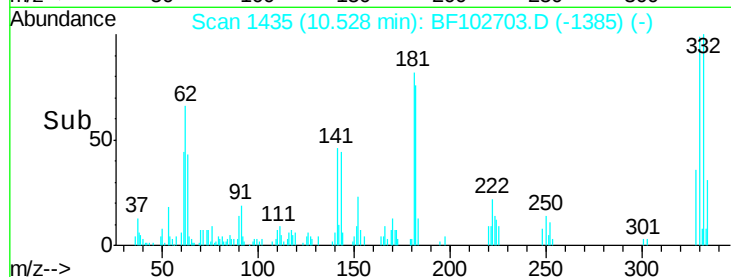
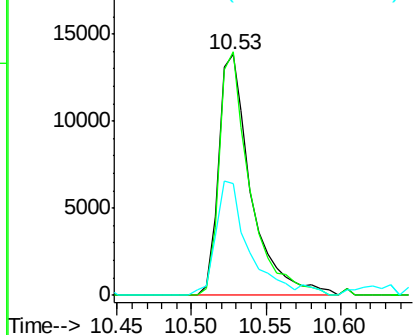
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.0	115.6
141	46.8	29.9	44.9

Manual Integrations
 APPROVED

Sohil
 2/2/2018 5:41:49 PM



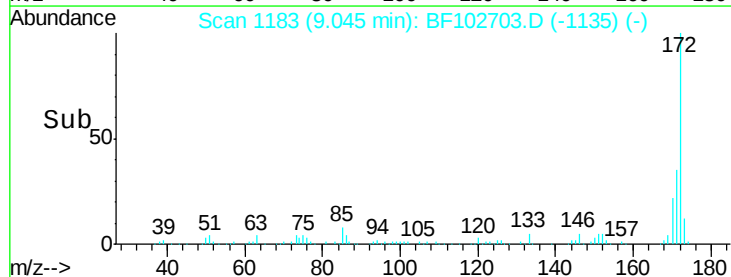
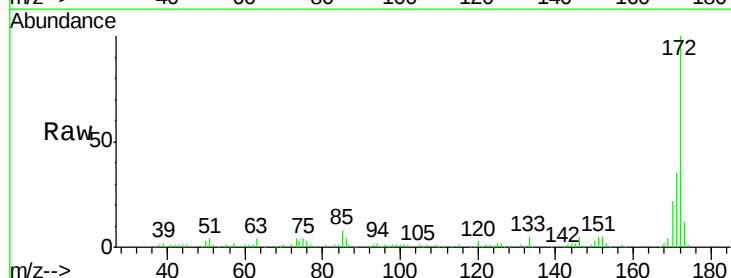
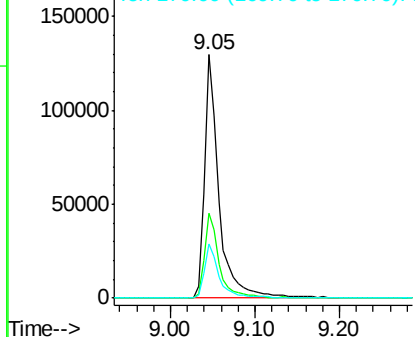
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

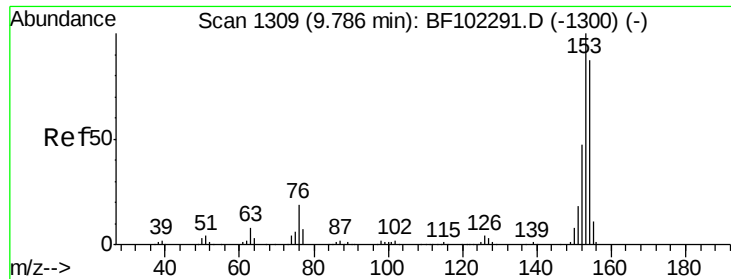


#44
 2-Fluorobiphenyl
 Concen: 8.181 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.7	44.5
170	22.0	19.6	29.4

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 6.731 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.02 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

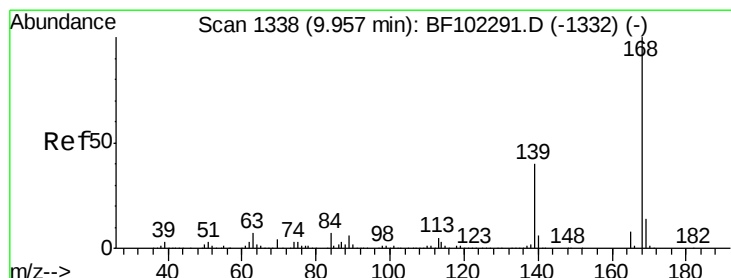
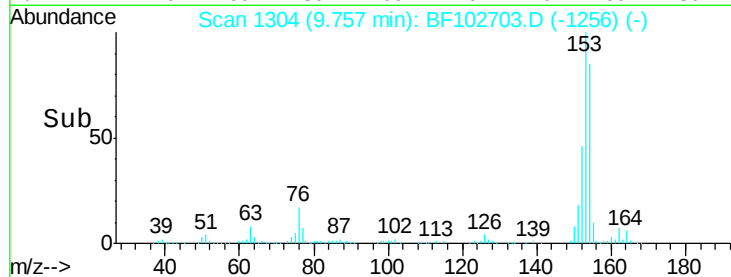
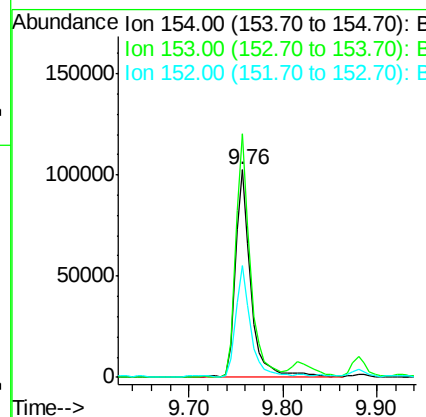
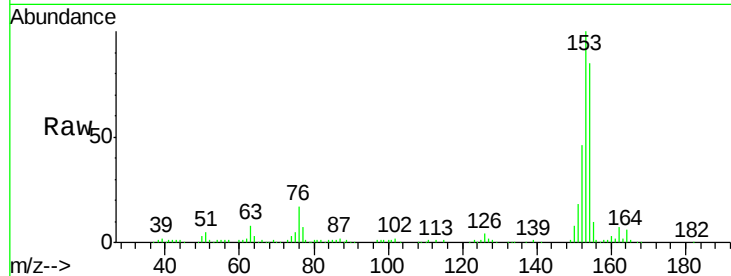
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion:	154	Resp:	117377
Ion Ratio	Lower	Upper	
154	100		
153	117.2	91.2	136.8
152	53.9	43.8	65.8

Manual Integrations
APPROVED

Sohil
2/2/2018 5:41:49 PM



#54

Dibenzofuran

Concen: 4.828 ng

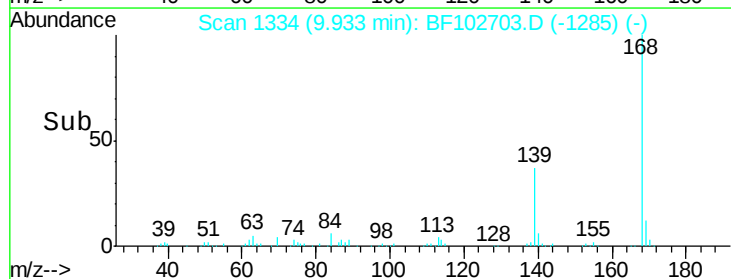
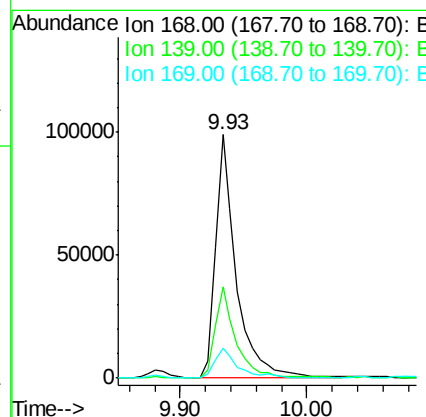
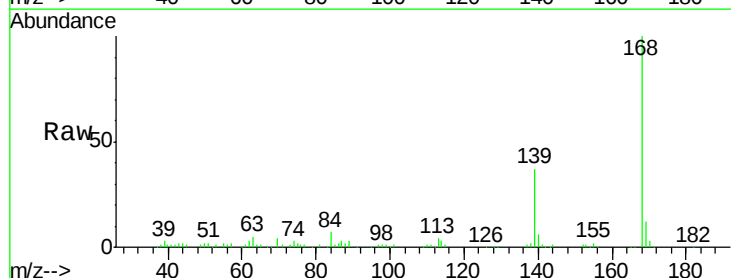
RT: 9.93 min Scan# 1334

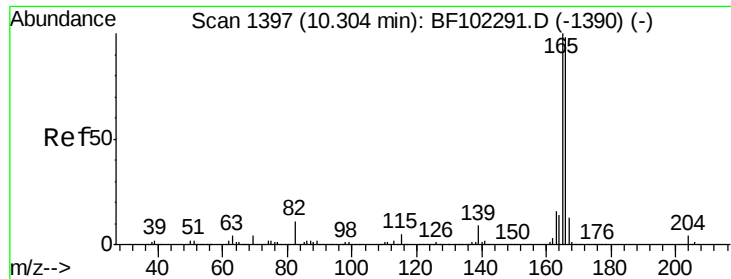
Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Tgt Ion:	168	Resp:	113947
Ion Ratio	Lower	Upper	
168	100		
139	37.5	30.1	45.1
169	12.2	10.9	16.3





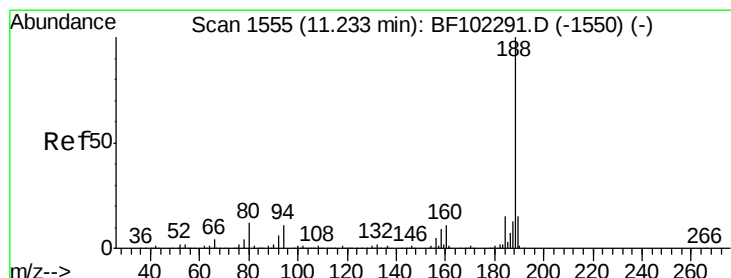
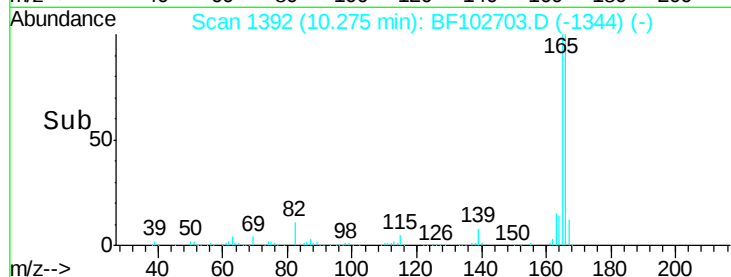
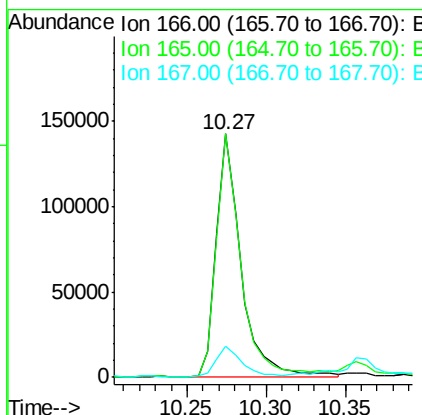
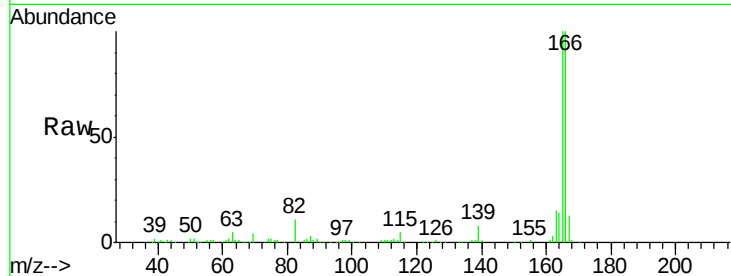
#57
Fluorene
Concen: 8.360 ng
RT: 10.27 min Scan# 1392
Delta R.T. -0.02 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.1	79.8	119.8	
167	12.7	10.6	16.0	

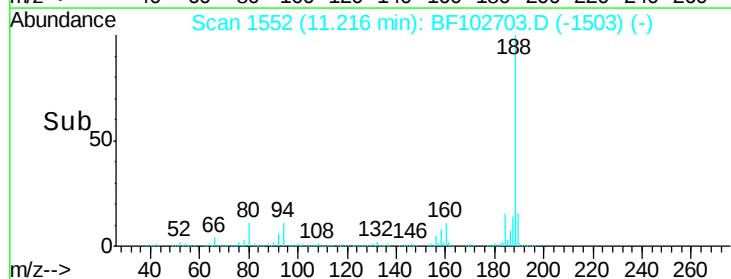
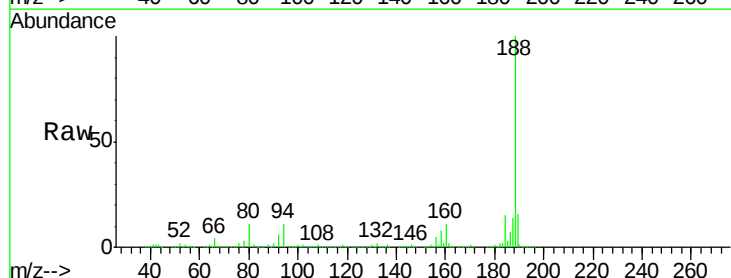
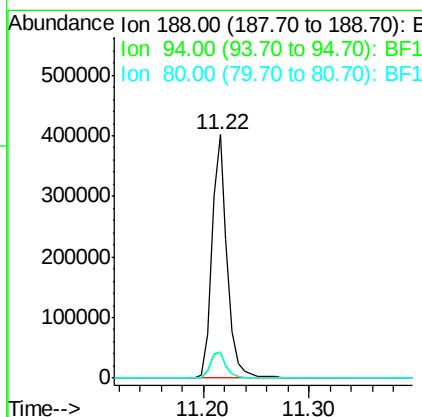
Manual Integrations
APPROVED

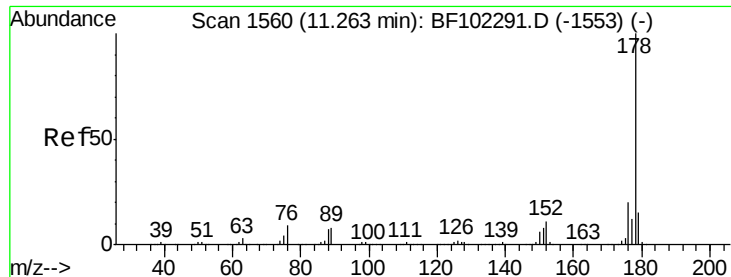
Sohil
2/2/2018 5:41:49 PM



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.22 min Scan# 1552
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.8	8.5	12.7	
80	10.9	9.2	13.8	





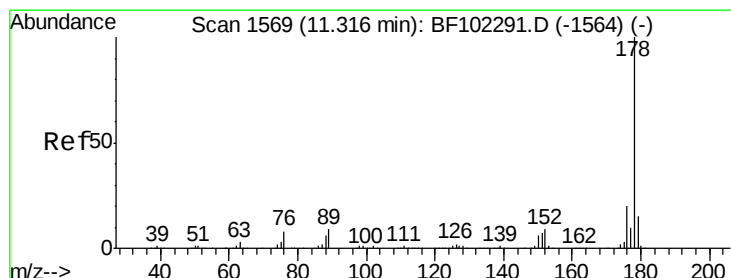
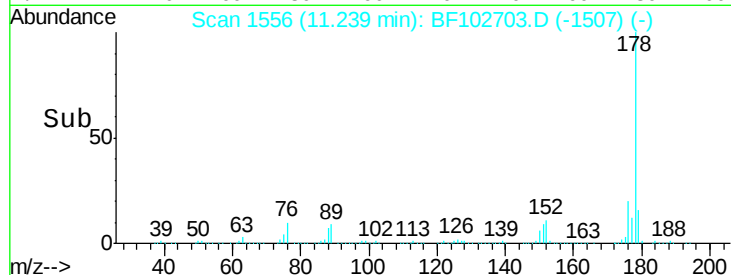
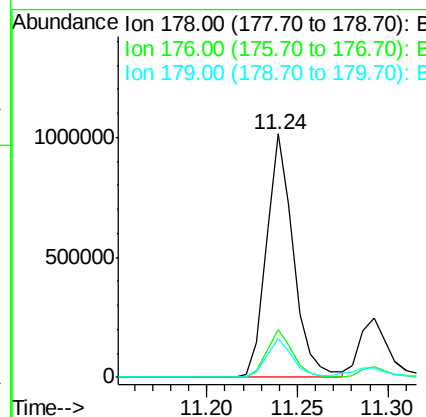
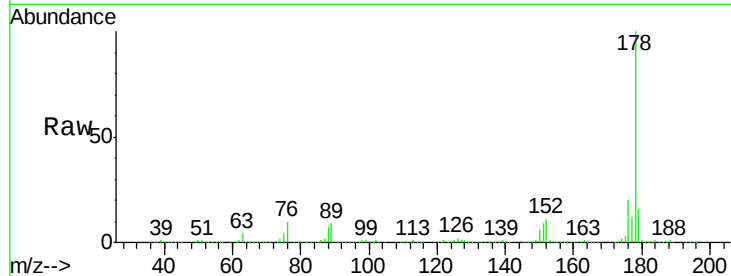
#70
Phenanthrene
Concen: 44.169 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion:178 Resp: 1043900
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.8 13.0 19.6

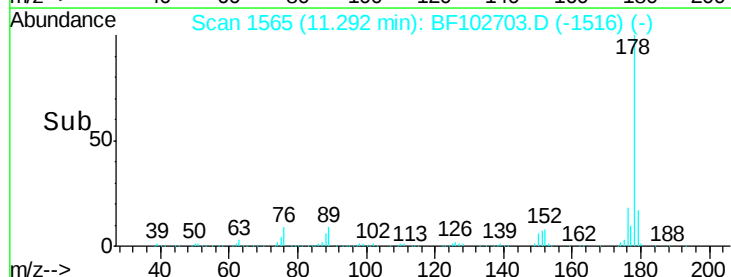
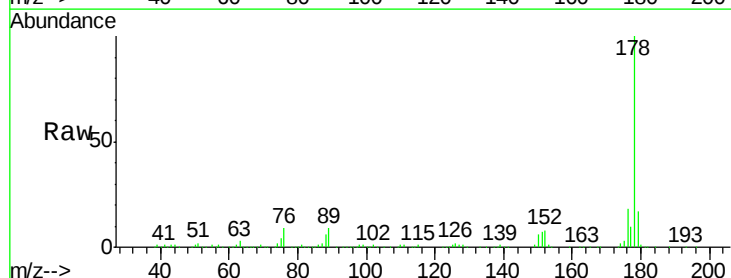
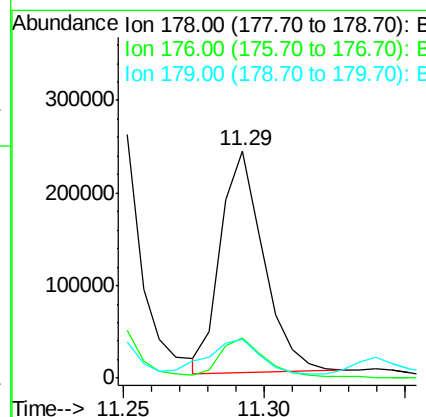
Manual Integrations
APPROVED

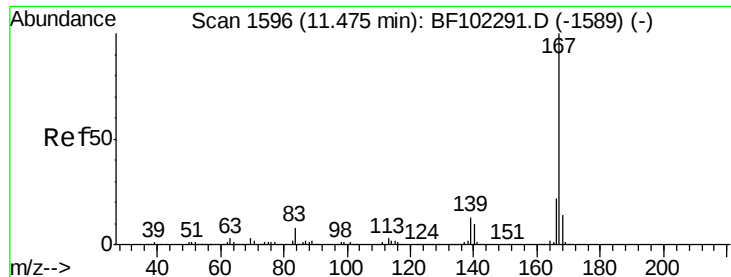
Sohil
2/2/2018 5:41:49 PM



#71
Anthracene
Concen: 10.471 ng
RT: 11.29 min Scan# 1565
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion:178 Resp: 252588
Ion Ratio Lower Upper
178 100
176 17.8 15.4 23.2
179 17.0 12.6 19.0





#72

Carbazole

Concen: 5.917 ng

RT: 11.46 min Scan# 1594

Delta R.T. 0.00 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

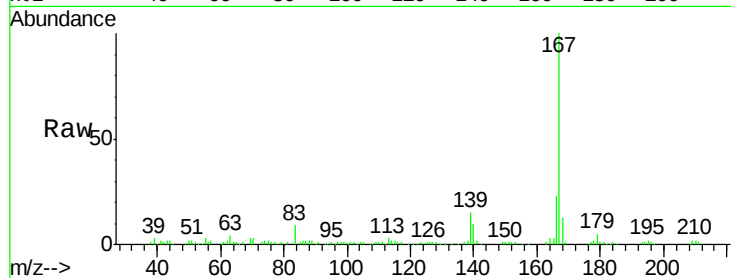
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)DL

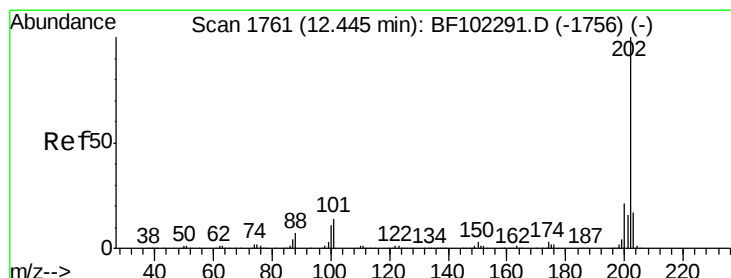
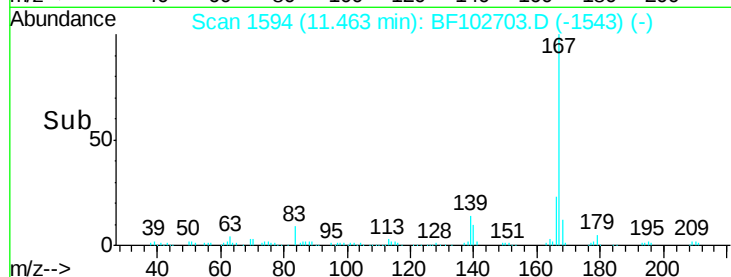
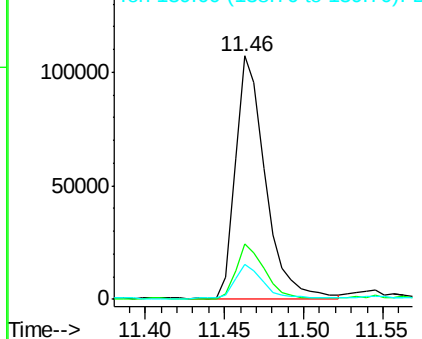
Tot Ion:	167	Resp:	139260
Ion Ratio	Lower	Upper	
167	100		
166	22.9	17.6	26.4
139	14.6	10.9	16.3

Manual Integrations
APPROVED

Sohil
2/2/2018 5:41:49 PM



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: 38.334 ng

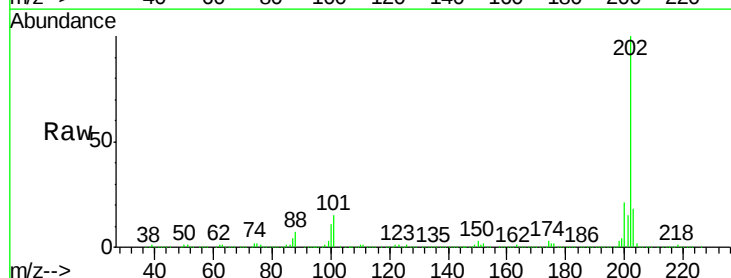
RT: 12.43 min Scan# 1758

Delta R.T. -0.01 min

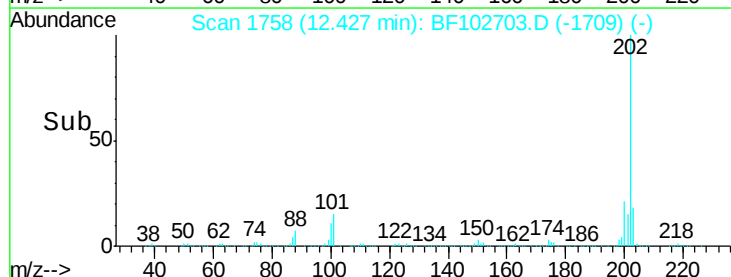
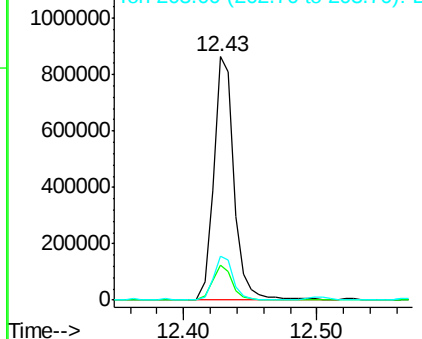
Lab File: BF102703.D

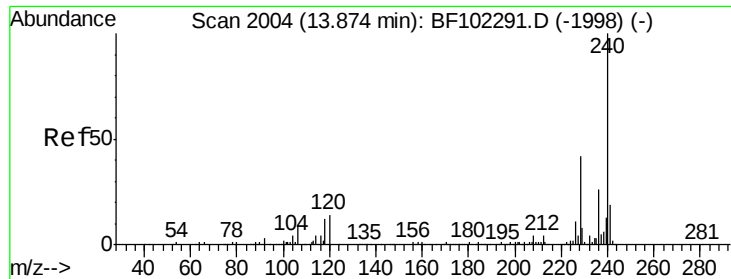
Acq: 2 Feb 2018 12:43

Tgt Ion:	202	Resp:	923893
Ion Ratio	Lower	Upper	
202	100		
101	14.5	0.0	34.1
203	17.8	0.0	38.1



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: 13.86 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

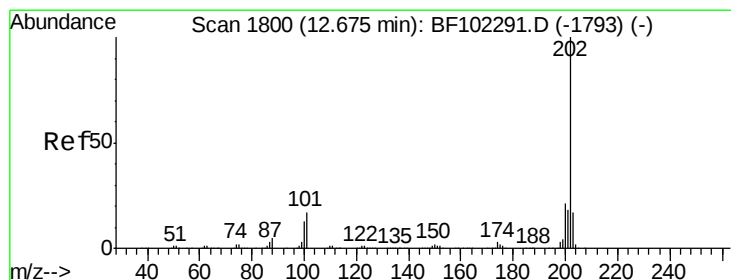
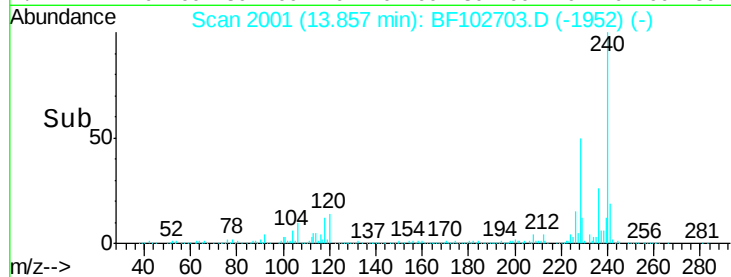
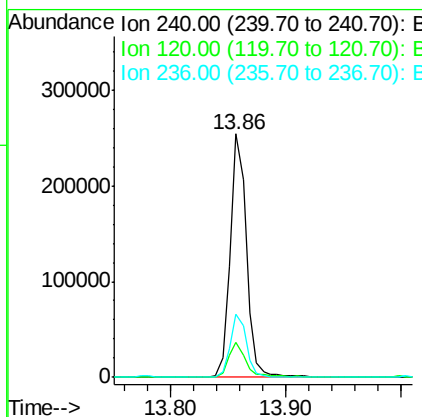
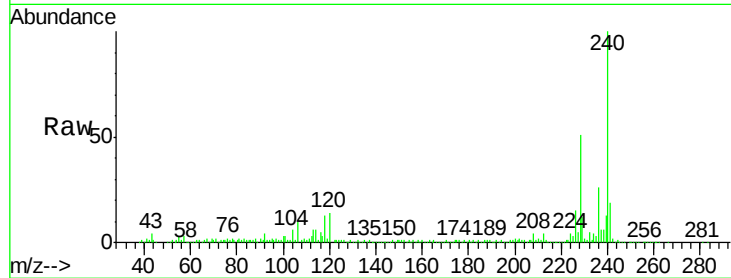
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.5	9.5	14.3#
236	25.8	20.7	31.1

Manual Integrations
APPROVED

Sohil
2/2/2018 5:41:49 PM



#77

Pyrene

Concen: 40.537 ng

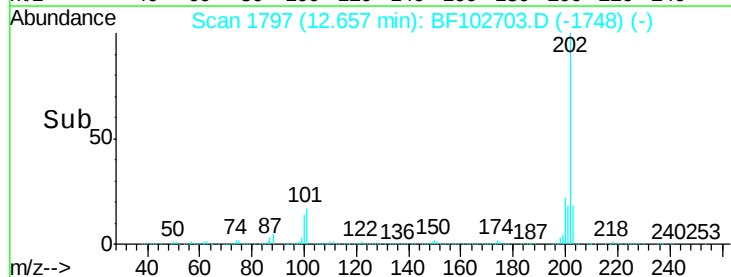
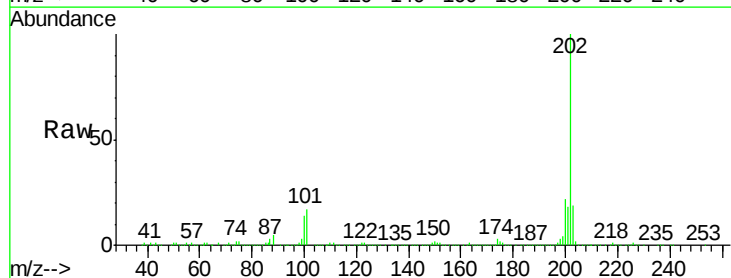
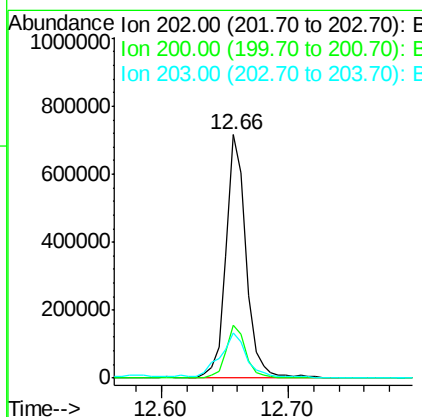
RT: 12.66 min Scan# 1797

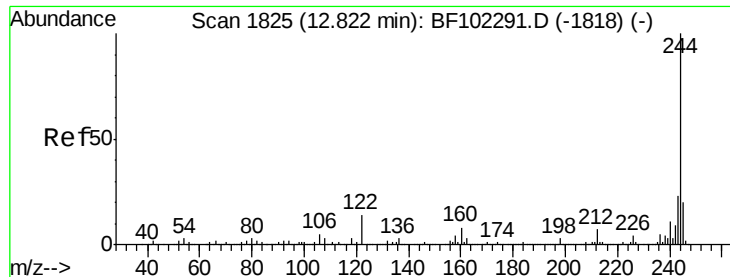
Delta R.T. -0.01 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	18.6	14.3	21.5





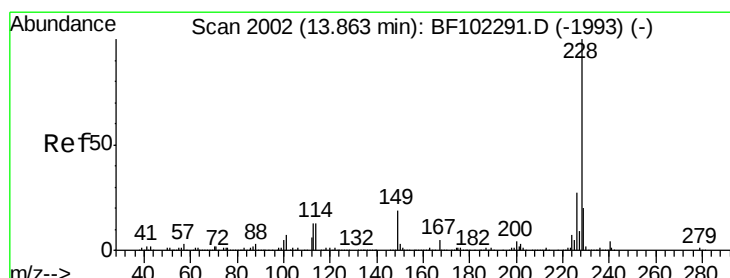
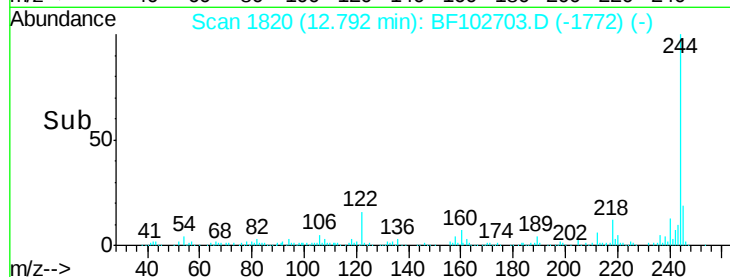
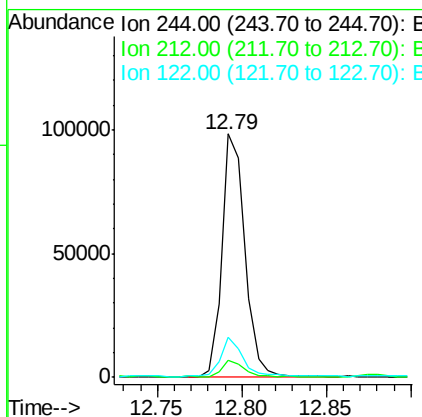
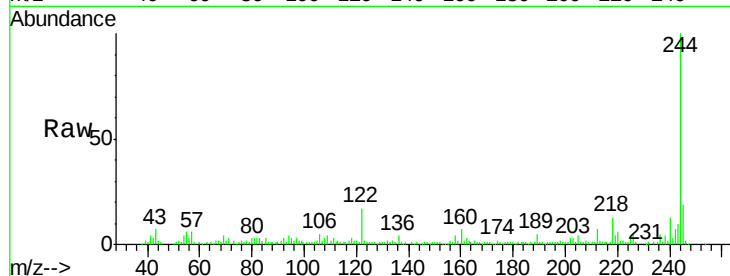
#78
 Terphenyl-d14
 Concen: 8.535 ng
 RT: 12.79 min Scan# 1820
 Delta R.T. -0.02 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Instrument :
 BNA_F
 ClientSampleId :
 TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.0
122	16.7	11.0	16.4

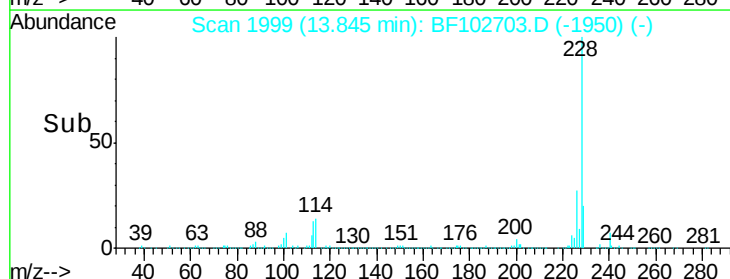
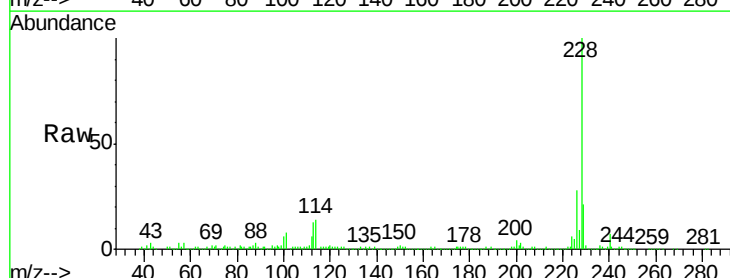
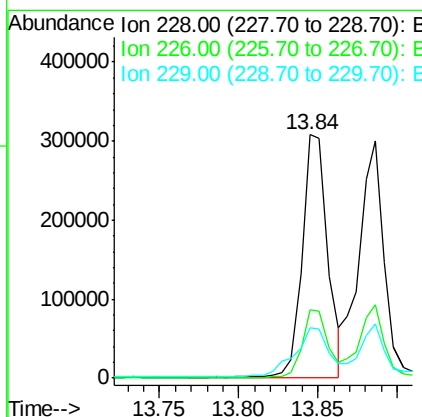
Manual Integrations
 APPROVED

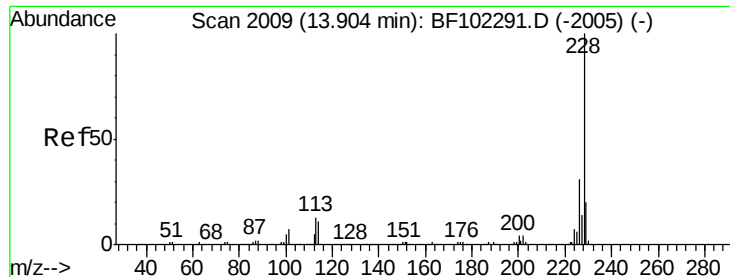
Sohil
 2/2/2018 5:41:49 PM



#80
 Benzo(a)anthracene
 Concen: 22.396 ng
 RT: 13.84 min Scan# 1999
 Delta R.T. -0.01 min
 Lab File: BF102703.D
 Acq: 2 Feb 2018 12:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	20.9	15.8	23.6





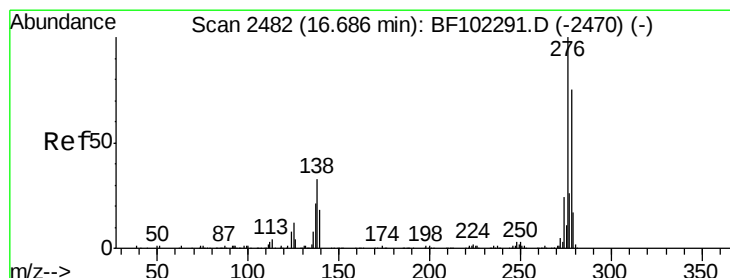
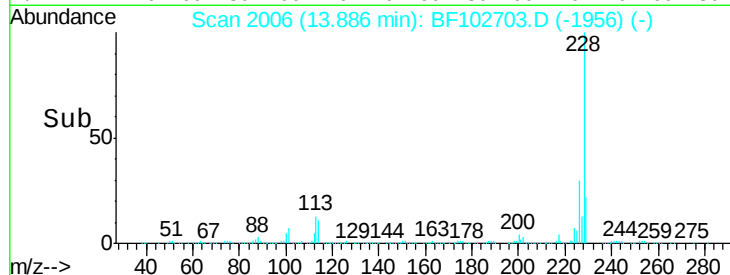
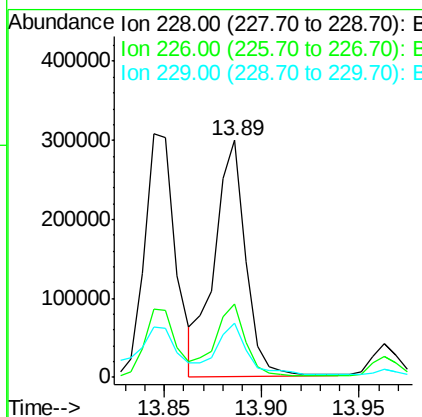
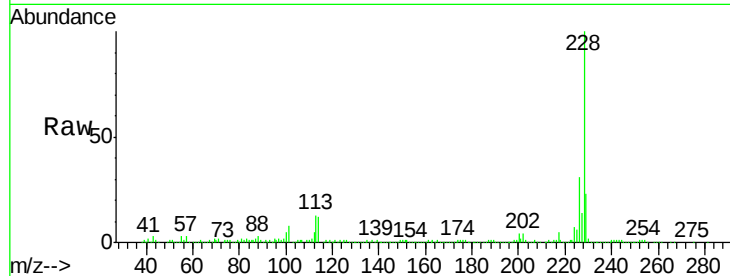
#82
Chrysene
Concen: 21.646 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion:228	Resp:	335511
Ion Ratio	Lower	Upper
228 100		
226 30.8	25.0	37.6
229 22.8	16.2	24.4

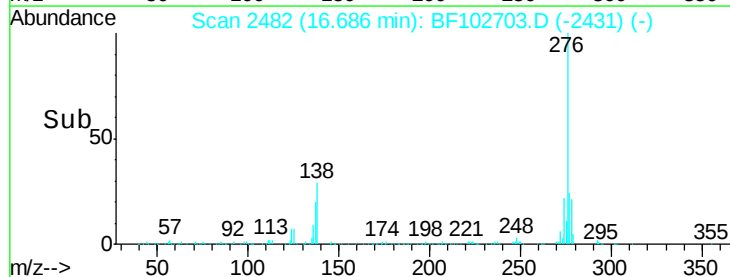
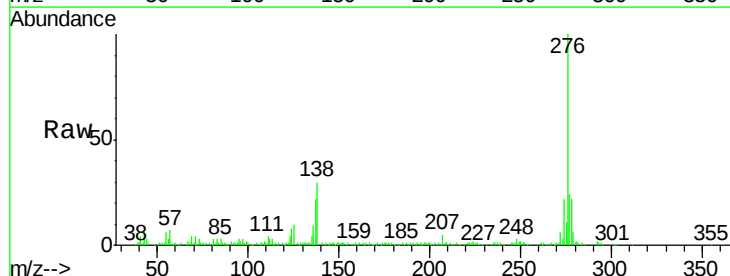
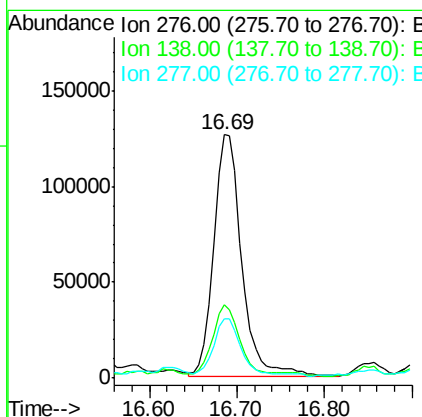
Manual Integrations
APPROVED

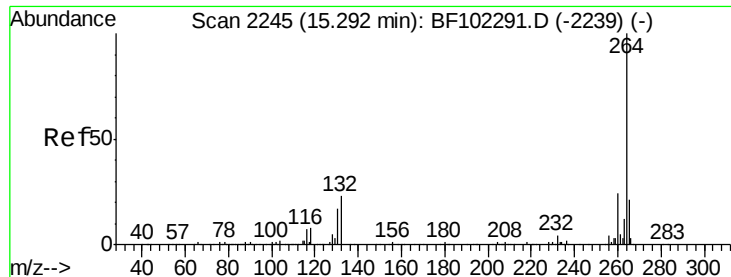
Sohil
2/2/2018 5:41:49 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 21.675 ng
RT: 16.69 min Scan# 2482
Delta R.T. 0.00 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion:276	Resp:	277446
Ion Ratio	Lower	Upper
276 100		
138 27.1	25.0	37.6
277 20.9	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.29 min Scan# 2244

Delta R.T. 0.00 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Instrument :

BNA_F

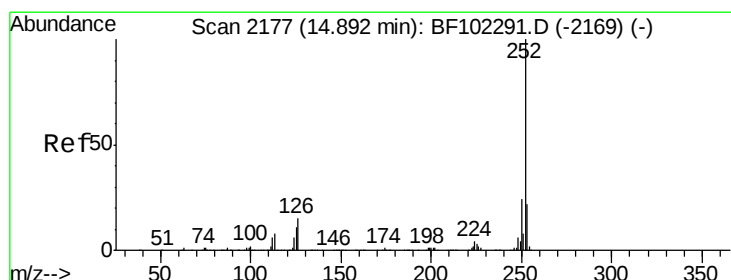
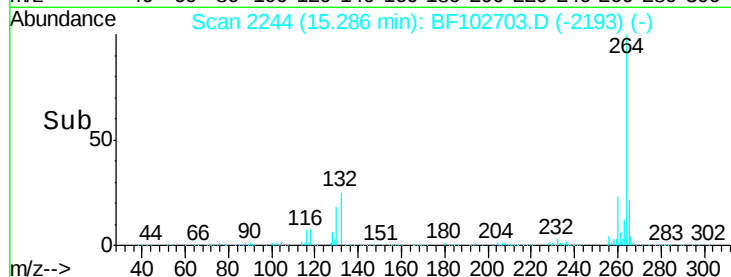
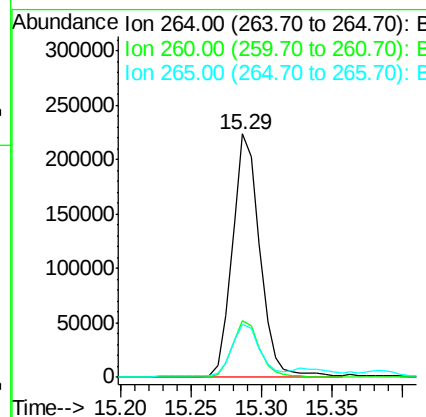
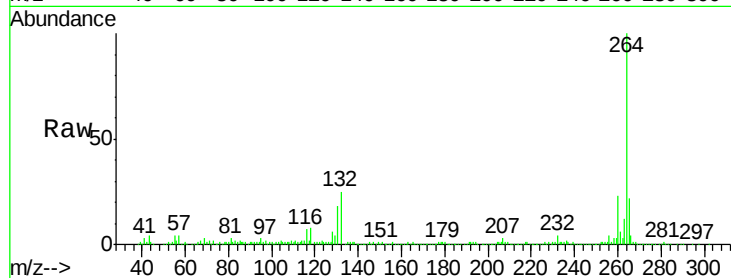
ClientSampleId :

TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion:	264	Resp:	300961
Ion Ratio	Lower	Upper	
264	100		
260	23.2	19.2	28.8
265	21.5	17.5	26.3

Manual Integrations
APPROVED

Sohil
2/2/2018 5:41:49 PM



#87

Benzo(b)fluoranthene

Concen: 24.278 ng m

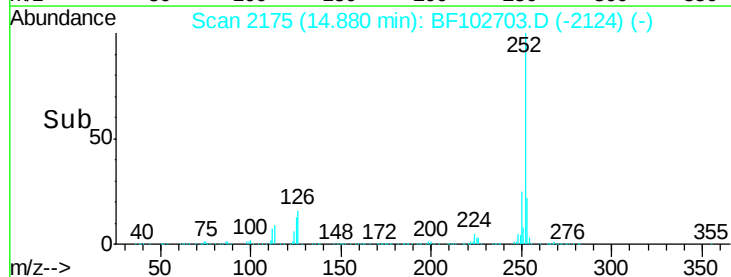
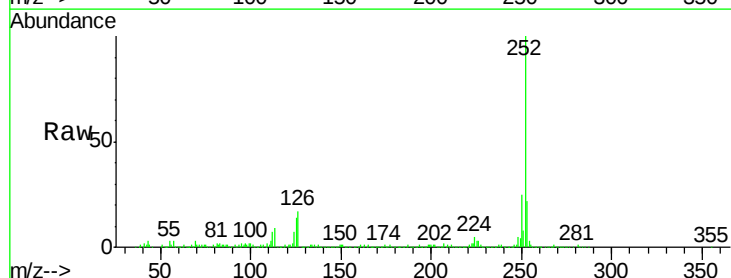
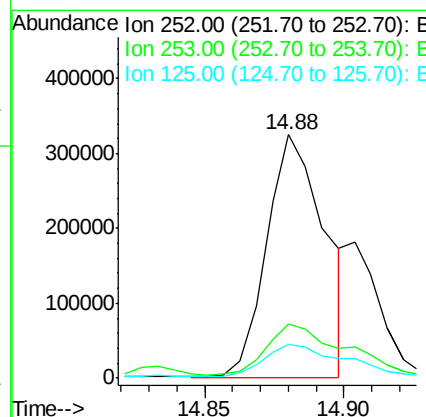
RT: 14.88 min Scan# 2175

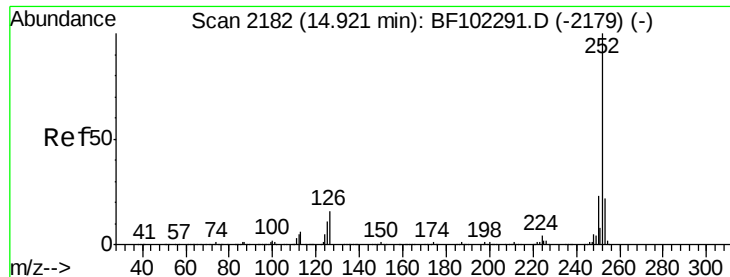
Delta R.T. 0.00 min

Lab File: BF102703.D

Acq: 2 Feb 2018 12:43

Tgt Ion:	252	Resp:	473581
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.0	25.6
125	14.1	9.0	13.6#





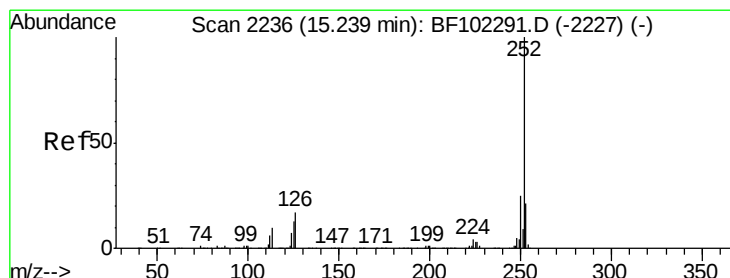
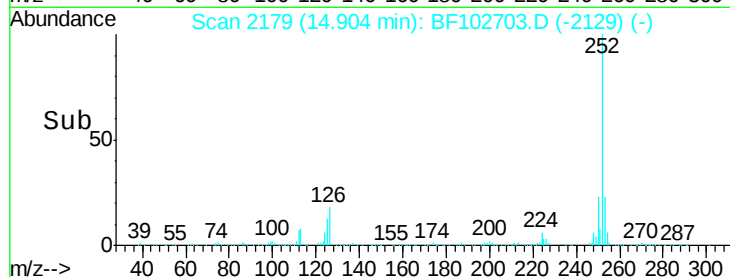
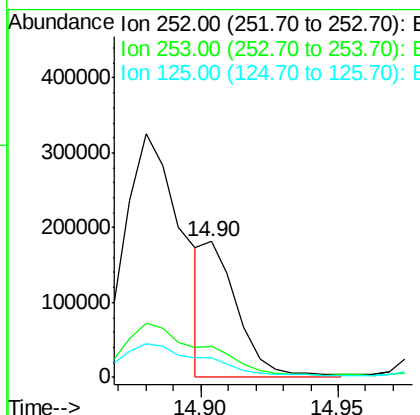
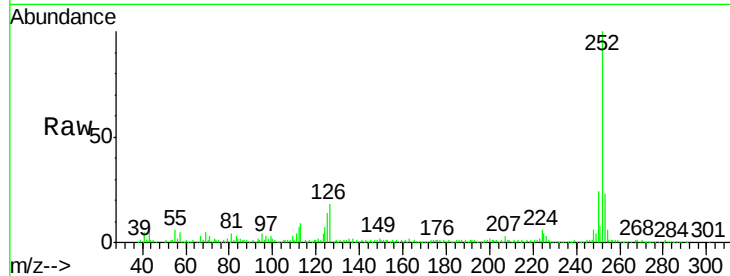
#88
Benzo(k)fluoranthene
Concen: 8.453 ng m
RT: 14.90 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	14.5	10.2	15.2

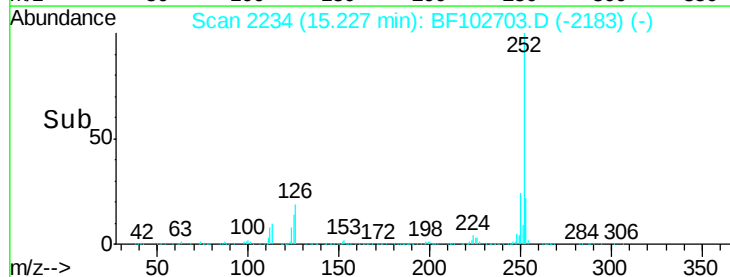
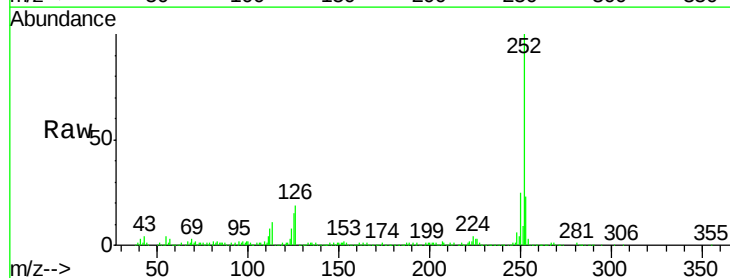
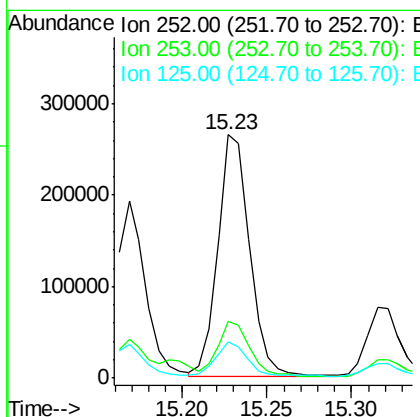
Manual Integrations
APPROVED

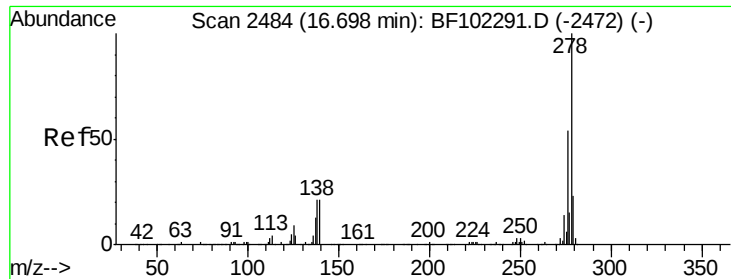
Sohil
2/2/2018 5:41:49 PM



#89
Benzo(a)pyrene
Concen: 19.927 ng
RT: 15.23 min Scan# 2234
Delta R.T. 0.00 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	15.0	9.8	14.6





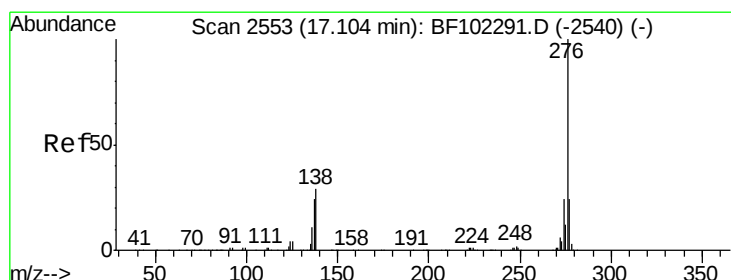
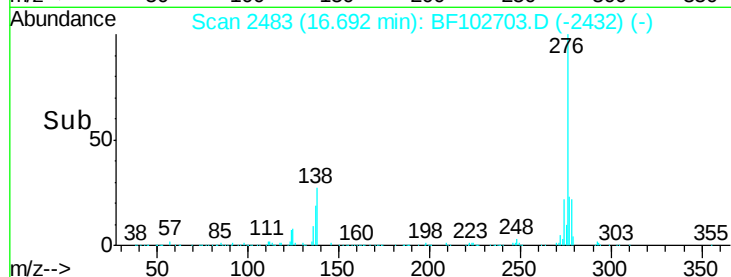
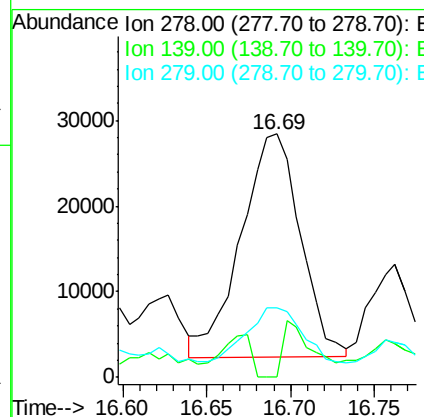
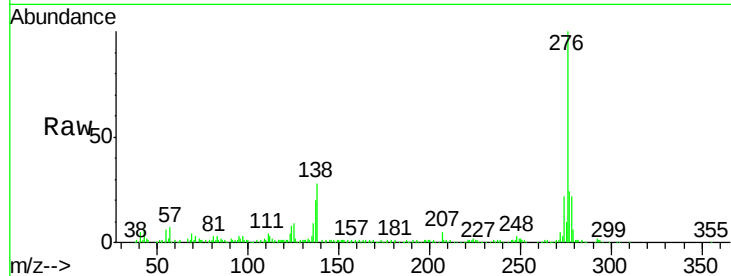
#90
Dibenzo(a,h)anthracene
Concen: 4.535 ng m
RT: 16.69 min Scan# 2483
Delta R.T. 0.00 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Instrument :
BNA_F
ClientSampleId :
TP-04(CB#3-LINE-BOTTOM@4)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	28.6	19.0	28.4#

Manual Integrations
APPROVED

Sohil
2/2/2018 5:41:49 PM



#91
Benzo(g,h,i)perylene
Concen: 19.991 ng
RT: 17.11 min Scan# 2554
Delta R.T. 0.01 min
Lab File: BF102703.D
Acq: 2 Feb 2018 12:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.9	26.9
138	32.0	21.8	32.8

