

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041618\
 Data File : BF104550.D
 Acq On : 16 Apr 2018 23:07
 Operator : JU/SJ
 Sample : J2370-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CG-RO-7211981

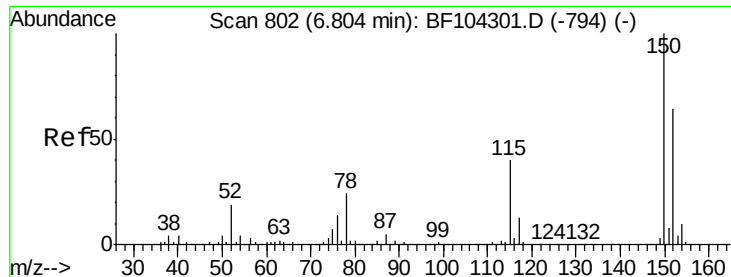
Manual Integrations
 APPROVED

Sohil
 4/17/2018 10:09:21 AM

Quant Time: Apr 17 02:05:15 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 16 12:15:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	140854	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	540033	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	242258	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	348269	20.00	ng	0.00
75) Chrysene-d12	13.99	240	277011	20.00	ng	0.00
86) Perylene-d12	15.46	264	197568	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	687347	74.62	ng	0.01
7) Phenol-d6	6.45	99	851988	75.27	ng	0.00
23) Nitrobenzene-d5	7.37	82	512899	62.02	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	164826	65.59	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	1005875	65.59	ng	0.00
78) Terphenyl-d14	12.93	244	721104	59.35	ng	0.00
Target Compounds						
48) Acenaphthylene	9.71	152	136219	5.401	ng	98
49) Dimethylphthalate	9.56	163	116028	6.074	ng	99
57) Fluorene	10.40	166	59934	3.840	ng	98
70) Phenanthrene	11.37	178	696919	35.933	ng	99
71) Anthracene	11.42	178	140255	7.114	ng	99
74) Fluoranthene	12.56	202	426561	21.050	ng	99
77) Pyrene	12.79	202	837200	40.773	ng	99
80) Benzo(a)anthracene	13.98	228	312587m	18.889	ng	
82) Chrysene	14.02	228	325075m	19.124	ng	
85) Indeno(1,2,3-cd)pyrene	16.91	276	113396	7.853	ng	95
87) Benzo(b)fluoranthene	15.03	252	261859m	20.986	ng	
88) Benzo(k)fluoranthene	15.04	252	87842m	7.457	ng	
89) Benzo(a)pyrene	15.39	252	245049	21.948	ng	96
90) Dibenzo(a,h)anthracene	16.92	278	32813	3.578	ng	95
91) Benzo(a,h,i)perylene	17.36	276	128553	14.470	ng	95

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



#1

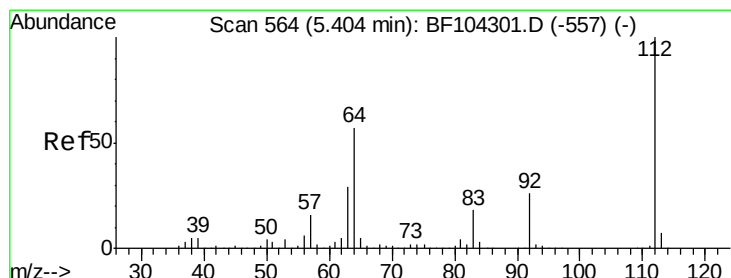
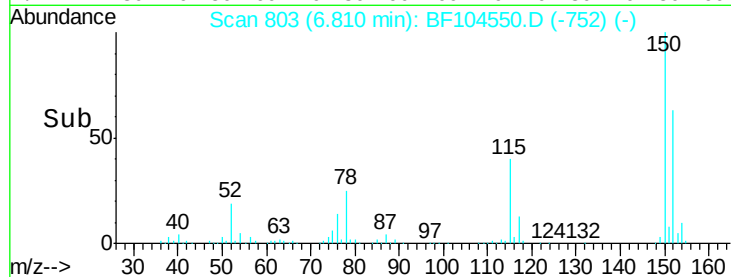
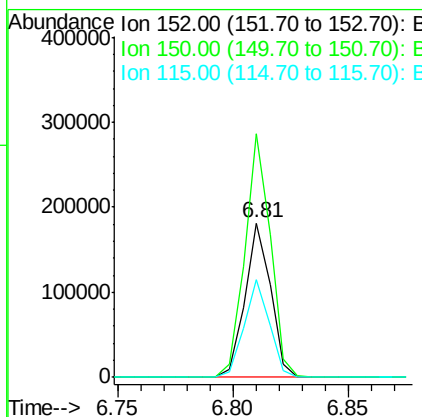
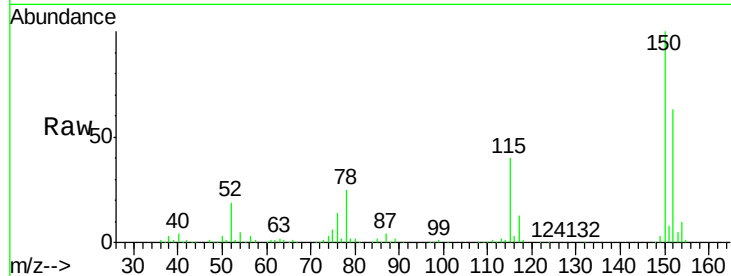
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.00 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Instrument :
BNA_F
ClientSampleId :
CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.6	186.8
115	63.1	50.1	75.1

Manual Integrations
APPROVED

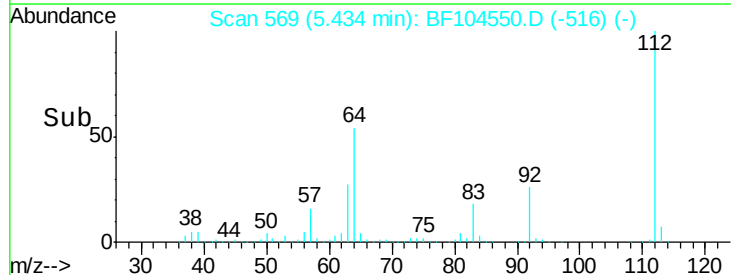
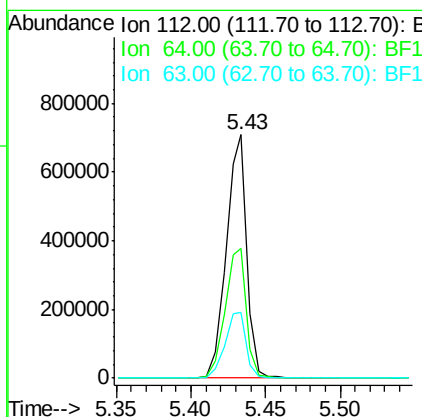
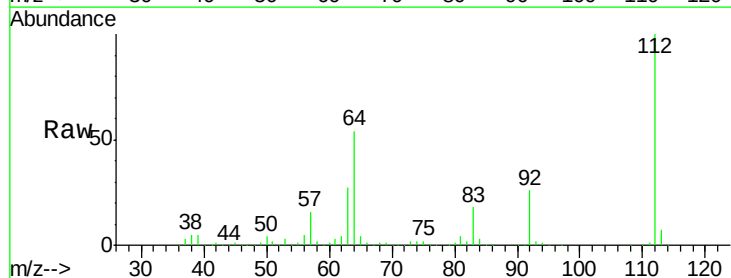
Sohil
4/17/2018 10:09:21 AM

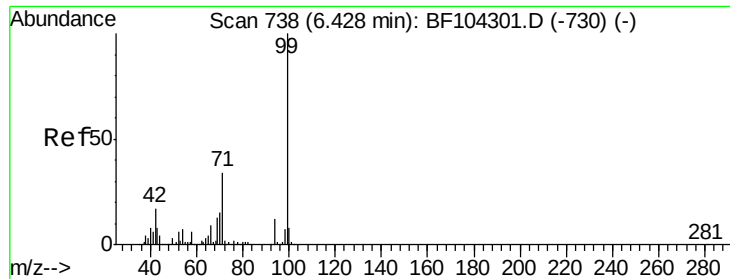


#5

2-Fluorophenol
Concen: 74.616 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.01 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.5	47.9	71.9
63	26.9	23.7	35.5





#7

Phenol-d6

Concen: 75.275 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.00 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Instrument :

BNA_F

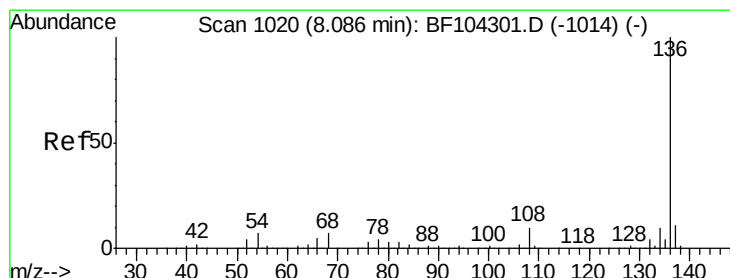
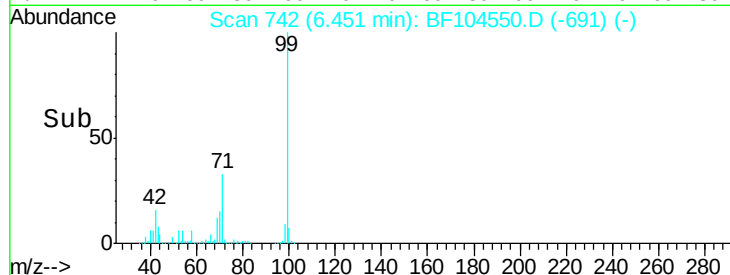
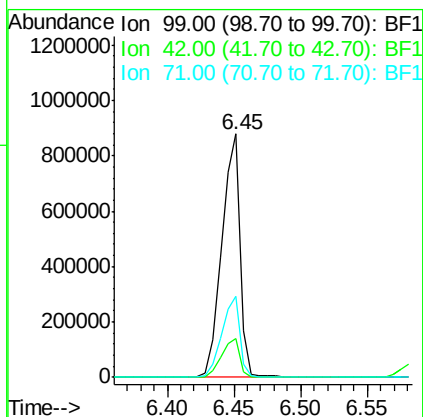
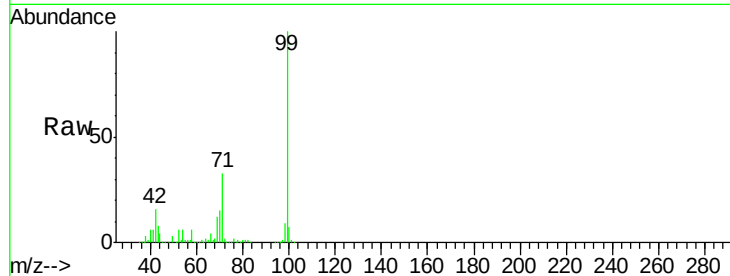
ClientSampleId :

CG-RO-7211981

Tot Ion:	99	Resp:	851988
Ion	Ratio	Lower	Upper
99	100		
42	15.8	14.5	21.7
71	33.3	25.4	38.0

Manual Integrations
APPROVED

Sohil
4/17/2018 10:09:21 AM



#21

Naphthalene-d8

Concen: 20.000 ng

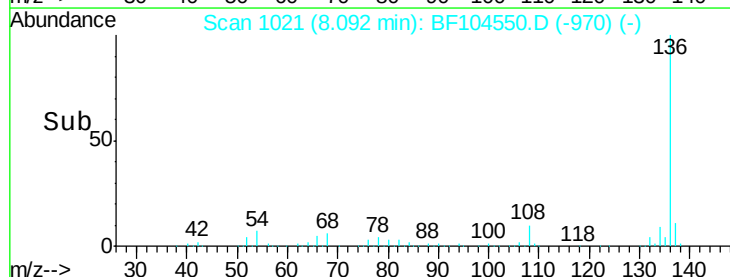
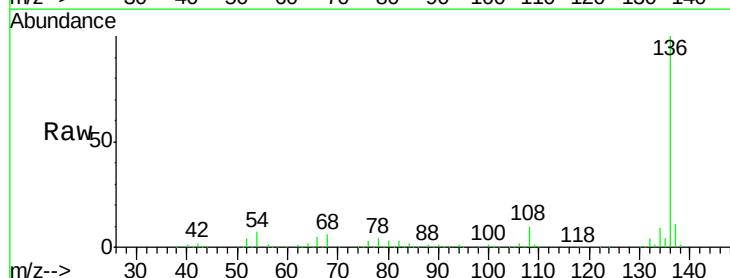
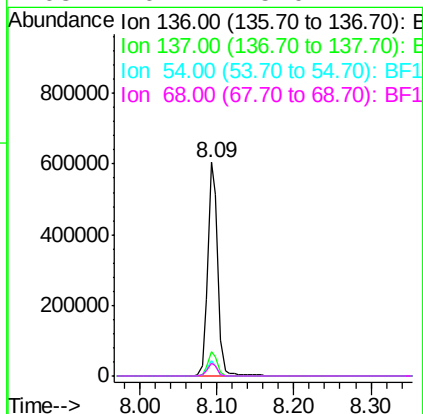
RT: 8.09 min Scan# 1021

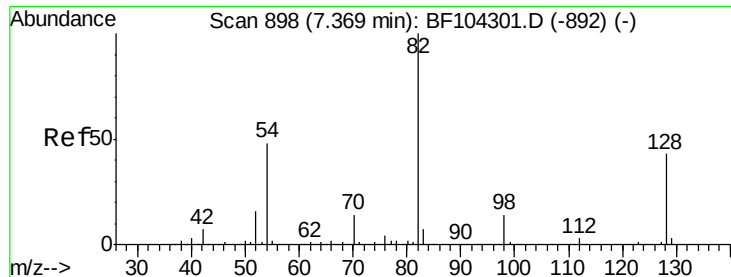
Delta R.T. 0.00 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Tgt Ion:	136	Resp:	540033
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.4	6.6	9.8
68	6.2	5.0	7.4





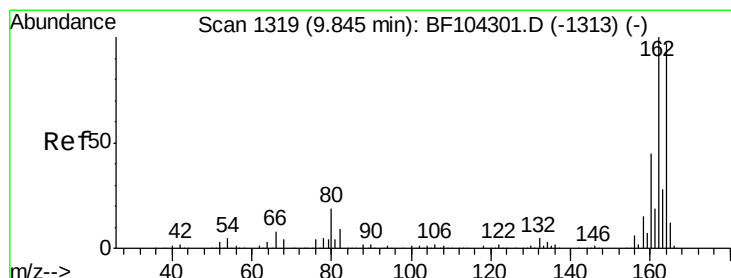
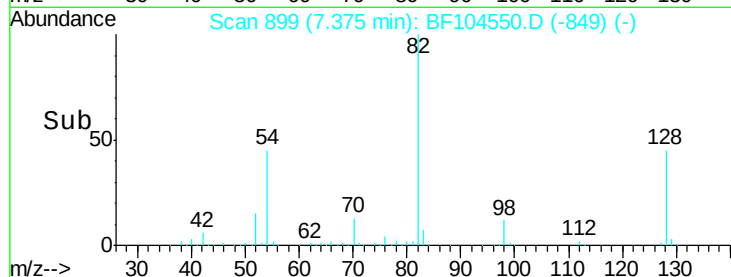
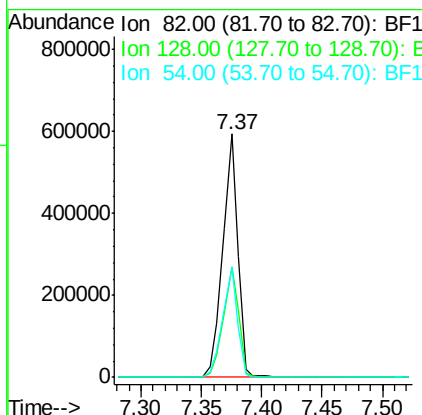
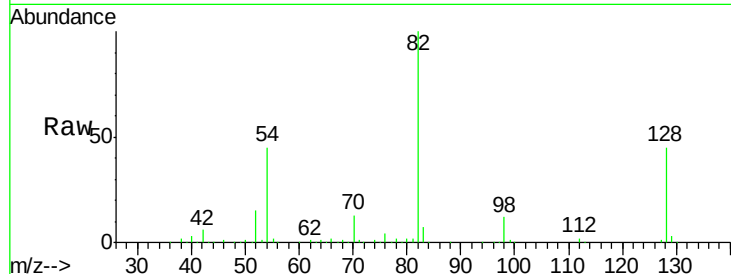
#23
 Nitrobenzene-d5
 Concen: 62.017 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: BF104550.D
 Acq: 16 Apr 2018 23:07

Instrument :
 BNA_F
 ClientSampleId :
 CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.1	54.1
54	45.4	41.4	62.2

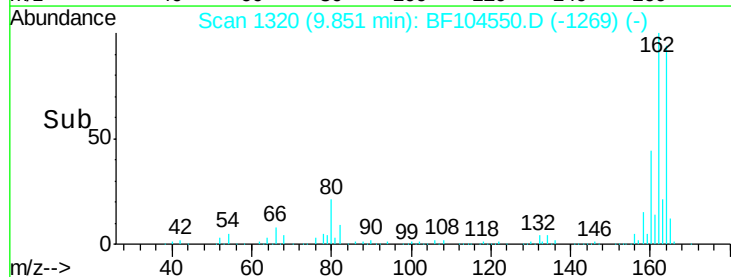
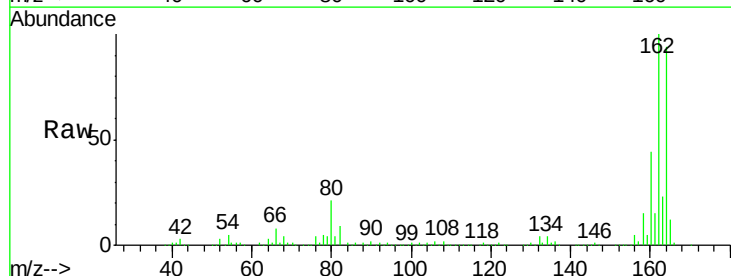
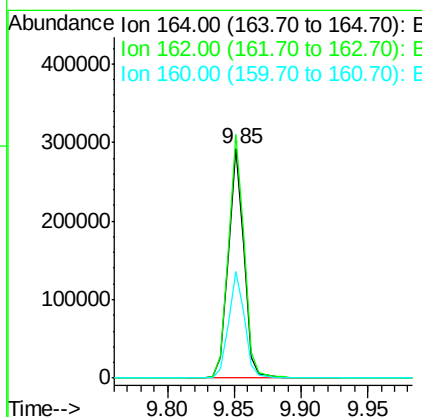
Manual Integrations
 APPROVED

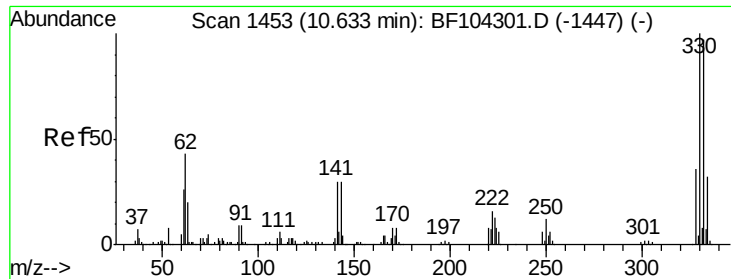
Sohil
 4/17/2018 10:09:21 AM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: BF104550.D
 Acq: 16 Apr 2018 23:07

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.2	86.1	129.1
160	46.7	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 65.589 ng

RT: 10.65 min Scan# 1455

Delta R.T. 0.00 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Instrument :

BNA_F

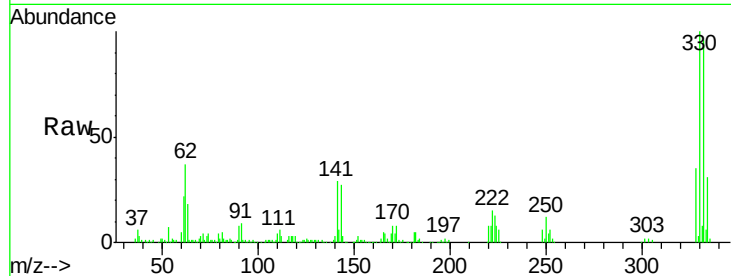
ClientSampleId :

CG-RO-7211981

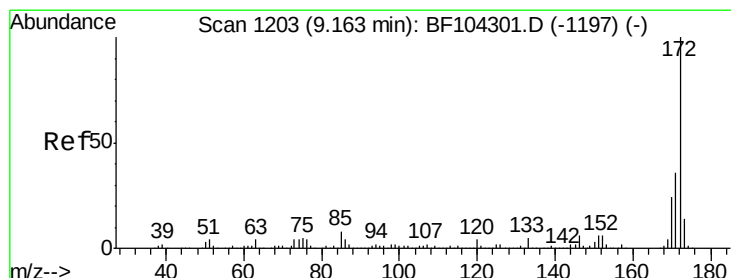
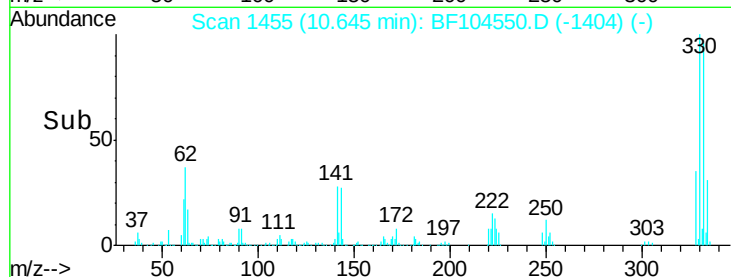
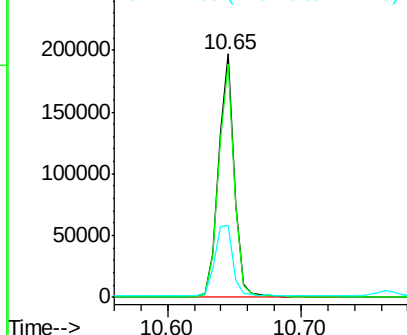
Tot Ion:	330	Resp:	164826
Ion Ratio	Lower	Upper	
330	100		
332	96.3	77.0	115.6
141	34.3	29.9	44.9

Manual Integrations
APPROVED

Sohil
4/17/2018 10:09:21 AM



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: 65.593 ng

RT: 9.17 min Scan# 1204

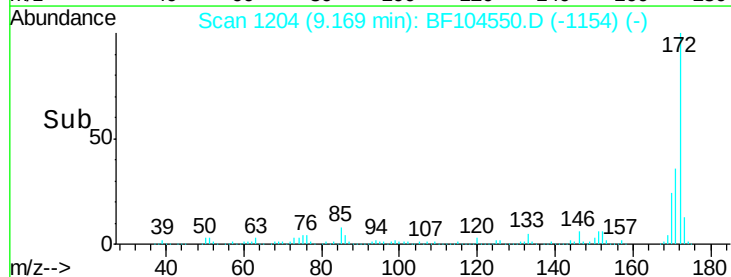
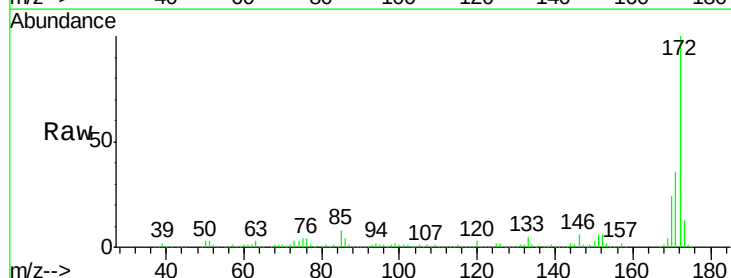
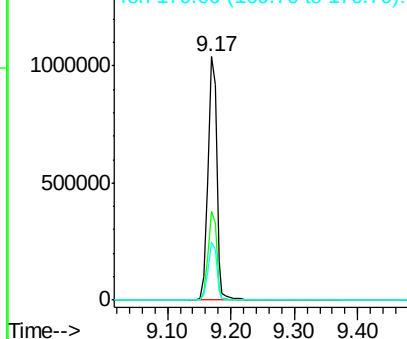
Delta R.T. -0.01 min

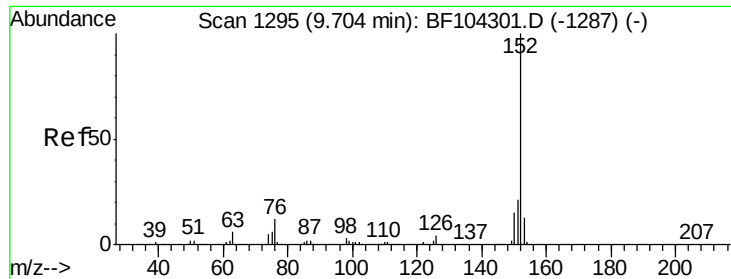
Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Tgt Ion:	172	Resp:	1005875
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.7	44.5
170	23.8	19.6	29.4

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





#48

Acenaphthylene

Concen: 5.401 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Instrument :

BNA_F

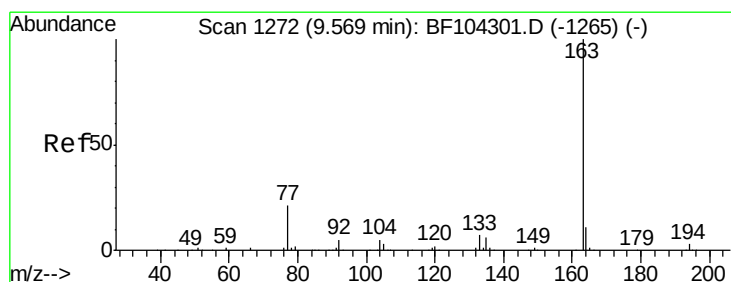
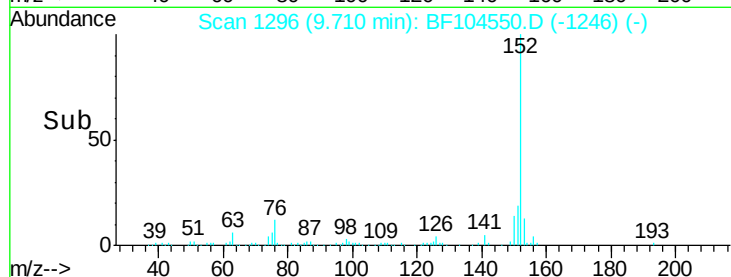
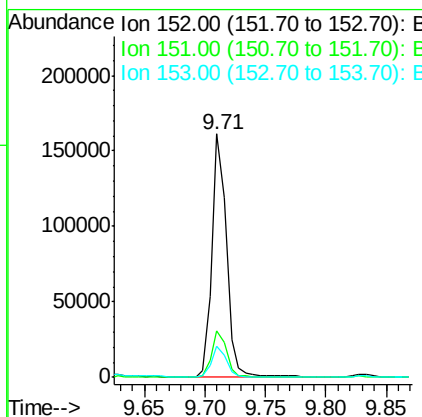
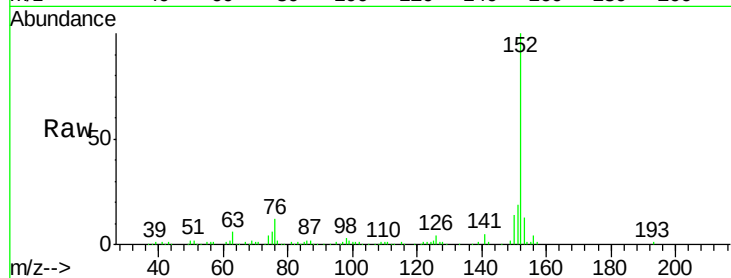
ClientSampleId :

CG-RO-7211981

Tot Ion:	152	Resp:	136219
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.3	24.5
153	12.9	10.7	16.1

Manual Integrations
APPROVED

Sohil
4/17/2018 10:09:21 AM



#49

Dimethylphthalate

Concen: 6.074 ng

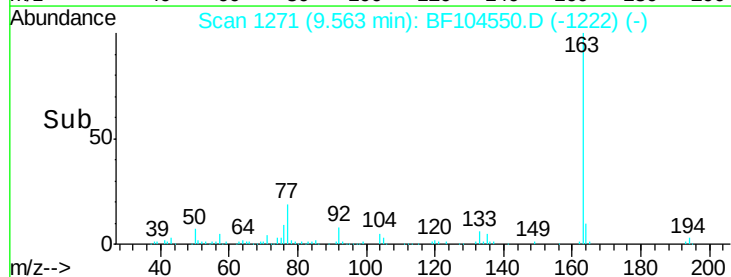
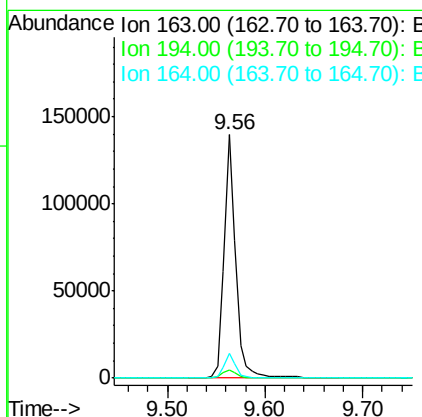
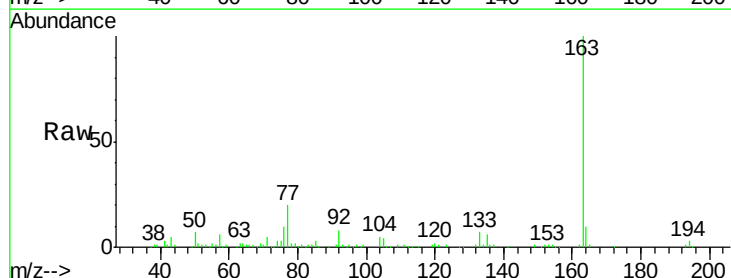
RT: 9.56 min Scan# 1271

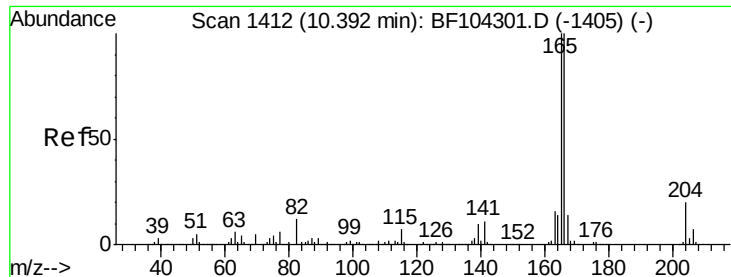
Delta R.T. -0.01 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Tgt Ion:	163	Resp:	116028
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.7	4.1
164	9.9	8.2	12.2





#57

Fluorene

Concen: 3.840 ng

RT: 10.40 min Scan# 1413

Delta R.T. -0.01 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Instrument :

BNA_F

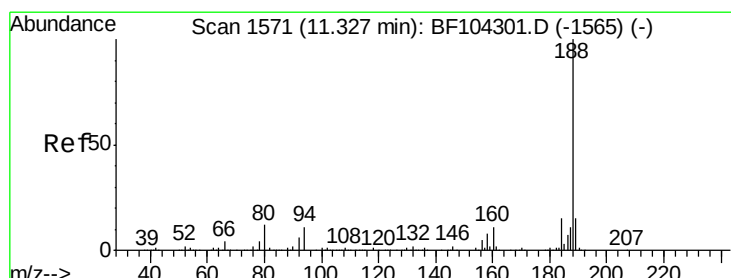
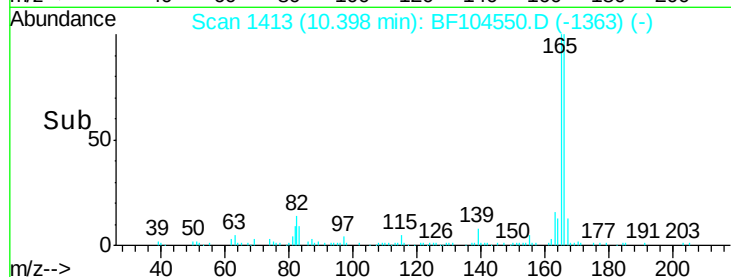
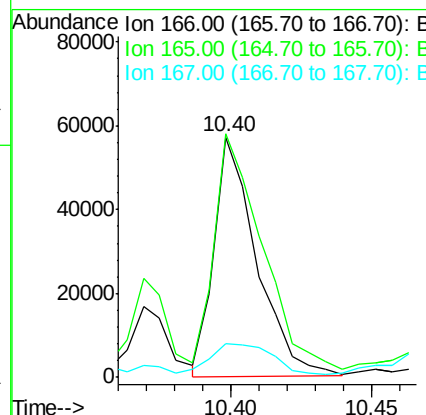
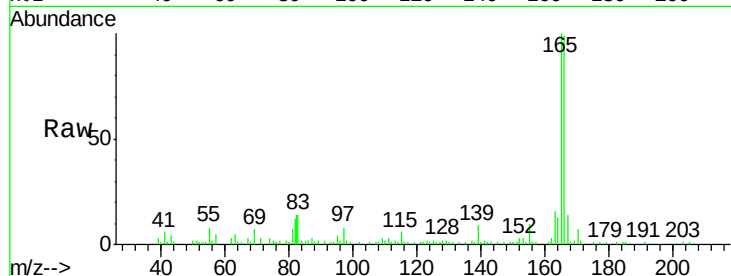
ClientSampleId :

CG-RO-7211981

Tot Ion:	166	Resp:	59934
Ion Ratio	Lower	Upper	
166	100		
165	101.4	79.8	119.8
167	14.1	10.6	16.0

Manual Integrations
APPROVED

Sohil
4/17/2018 10:09:21 AM



#63

Phenanthrene-d10

Concen: 20.000 ng

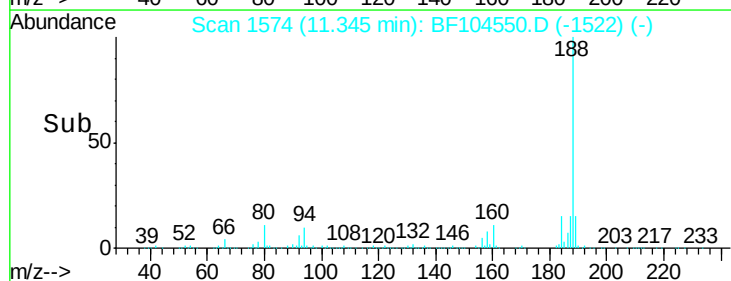
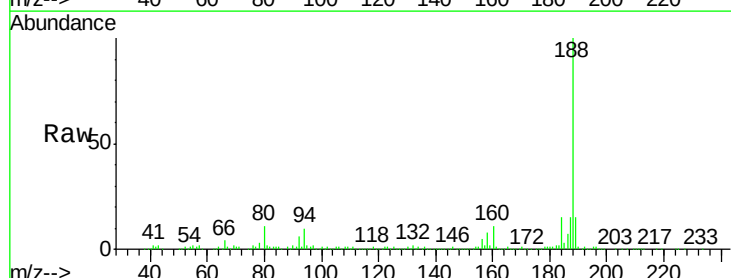
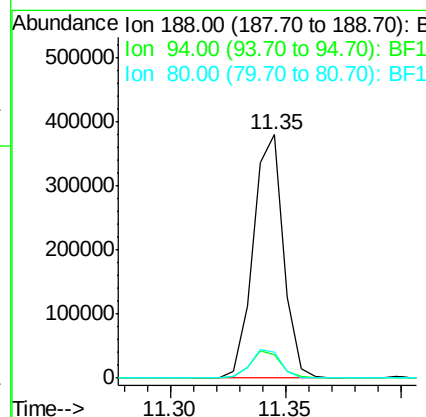
RT: 11.35 min Scan# 1574

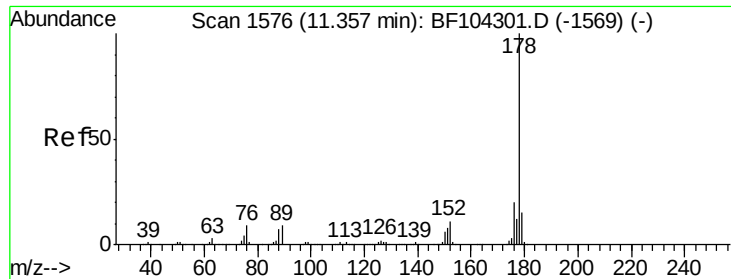
Delta R.T. 0.01 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Tgt Ion:	188	Resp:	348269
Ion Ratio	Lower	Upper	
188	100		
94	9.7	8.5	12.7
80	10.7	9.2	13.8





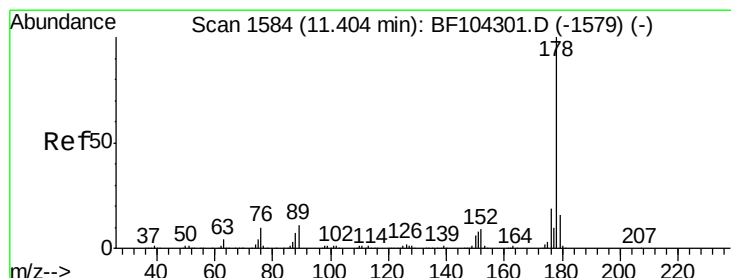
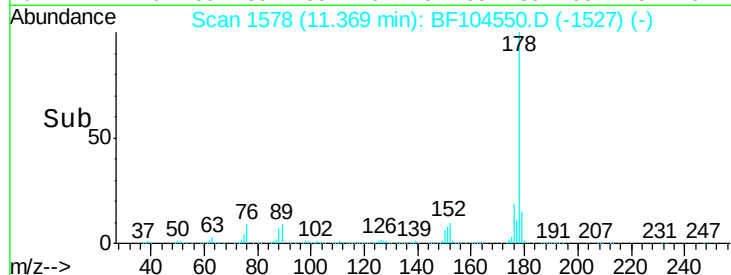
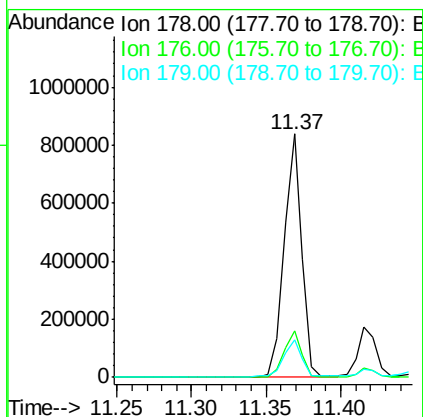
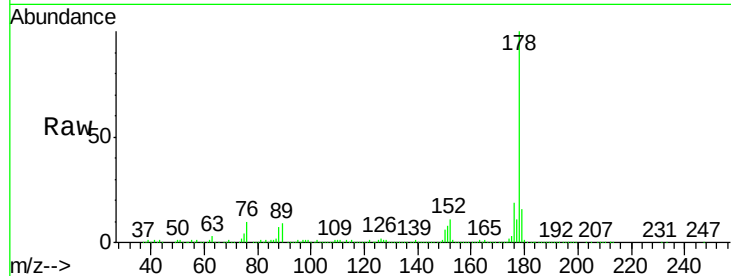
#70
Phenanthrene
Concen: 35.933 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.00 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Instrument :
BNA_F
ClientSampleId :
CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.5	13.0	19.6

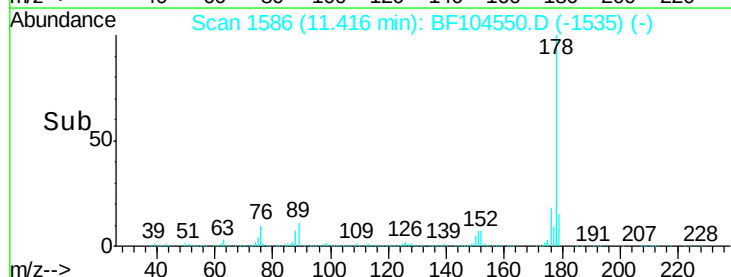
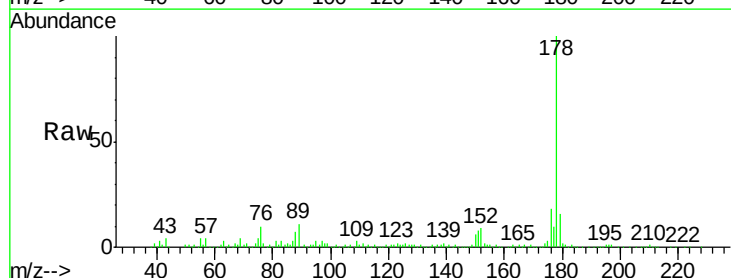
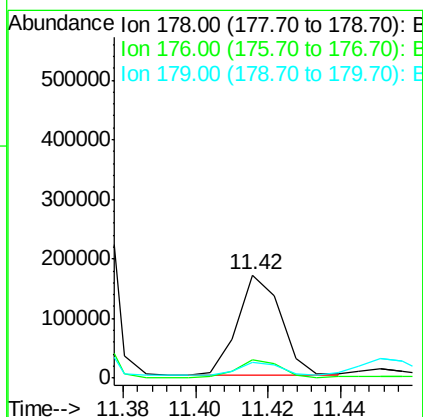
Manual Integrations
APPROVED

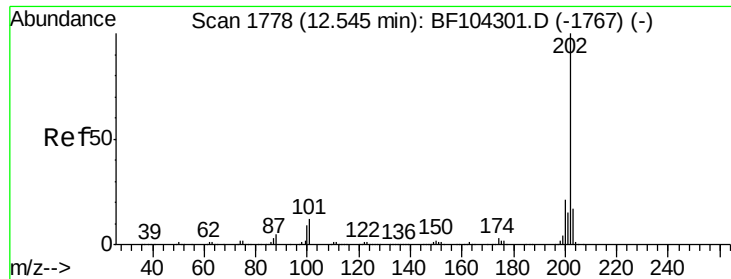
Sohil
4/17/2018 10:09:21 AM



#71
Anthracene
Concen: 7.114 ng
RT: 11.42 min Scan# 1586
Delta R.T. 0.00 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.2
179	15.8	12.6	19.0





#74

Fluoranthene

Concen: 21.050 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.00 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Instrument :

BNA_F

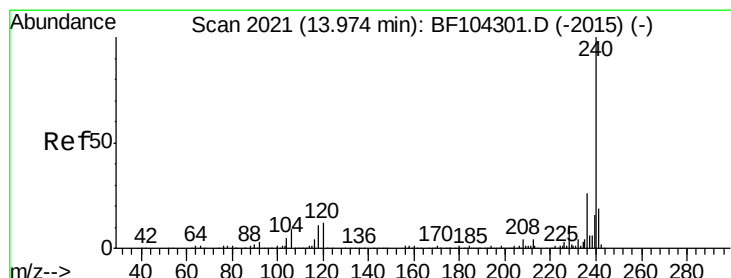
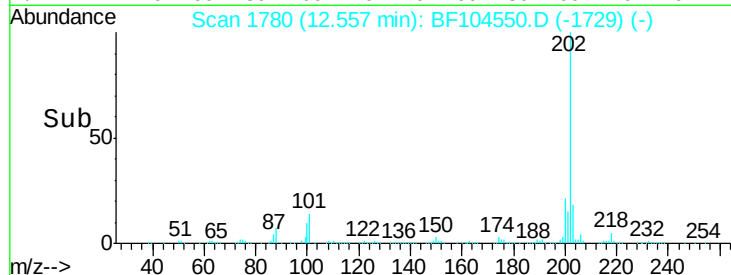
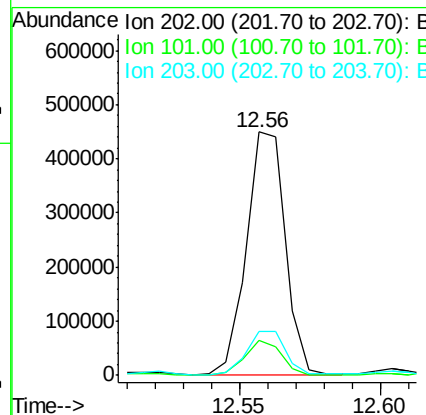
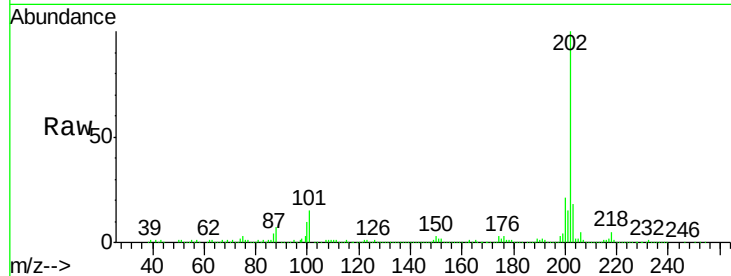
ClientSampleId :

CG-RO-7211981

Tot Ion:	202	Resp:	426561
Ion Ratio	Lower	Upper	
202	100		
101	14.6	0.0	34.1
203	18.1	0.0	38.1

Manual Integrations
APPROVED

Sohil
4/17/2018 10:09:21 AM



#75

Chrysene-d12

Concen: 20.000 ng

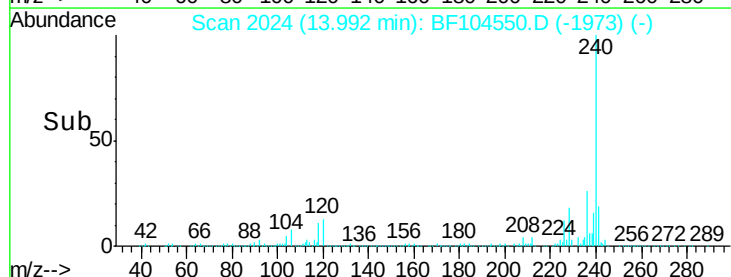
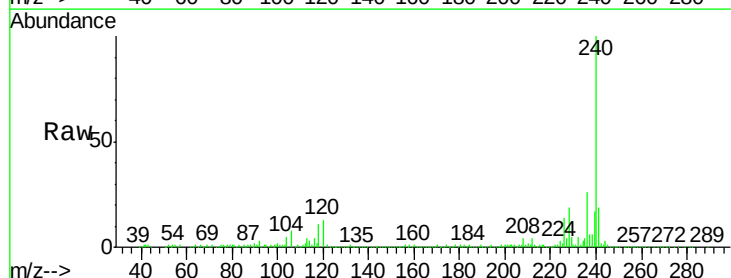
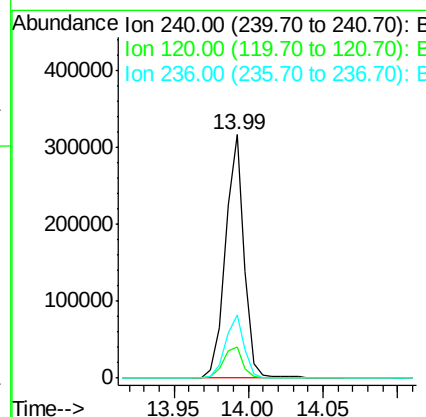
RT: 13.99 min Scan# 2024

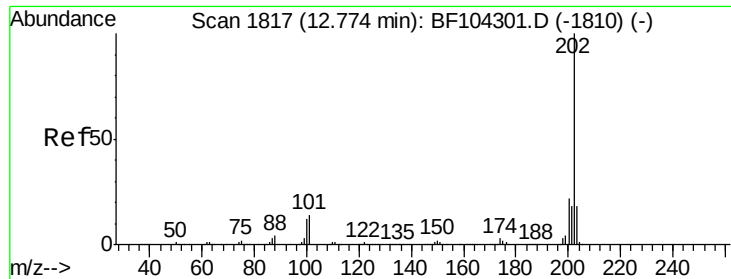
Delta R.T. 0.00 min

Lab File: BF104550.D

Acq: 16 Apr 2018 23:07

Tgt Ion:	240	Resp:	277011
Ion Ratio	Lower	Upper	
240	100		
120	12.7	9.5	14.3
236	25.9	20.7	31.1





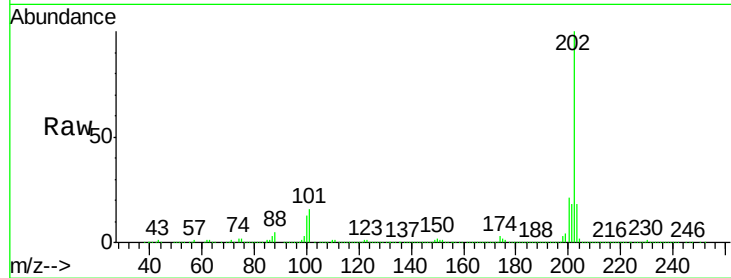
#77
Pvrene
Concen: 40.773 ng
RT: 12.79 min Scan# 1820
Delta R.T. 0.01 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Instrument :
BNA_F
ClientSampleId :
CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.2
203	17.8	14.3	21.5

Manual Integrations
APPROVED

Sohil
4/17/2018 10:09:21 AM

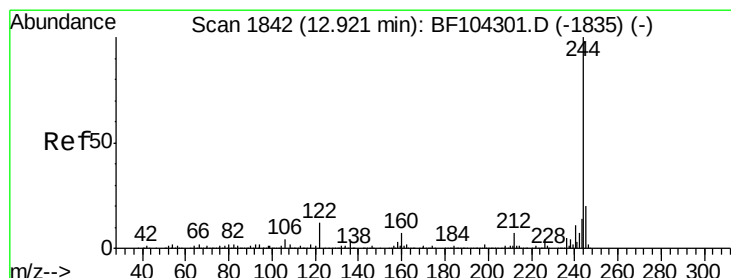
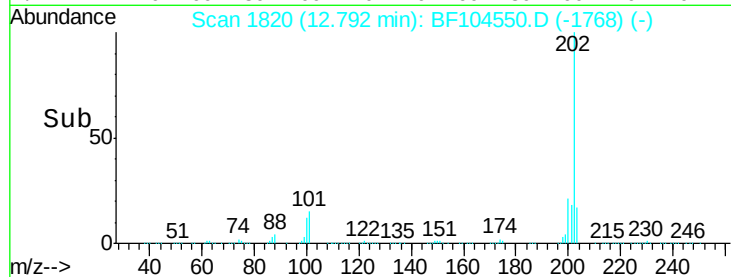
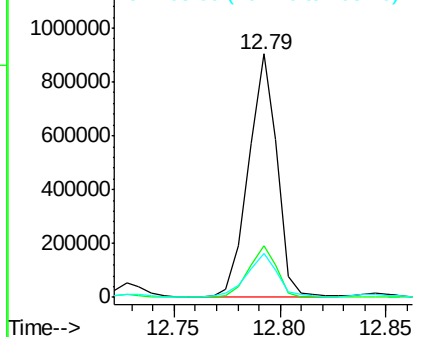


Abundance

Ion 202.00 (201.70 to 202.70): E

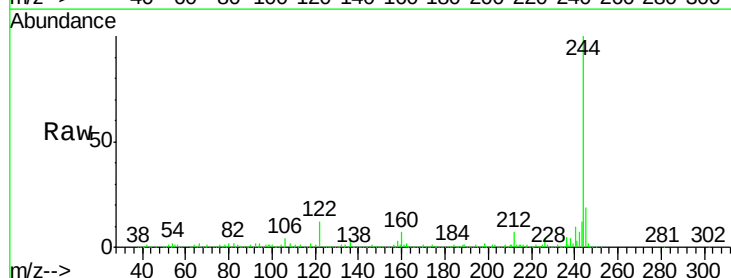
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78
Terphenyl-d14
Concen: 59.348 ng
RT: 12.93 min Scan# 1844
Delta R.T. 0.01 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	11.9	11.0	16.4

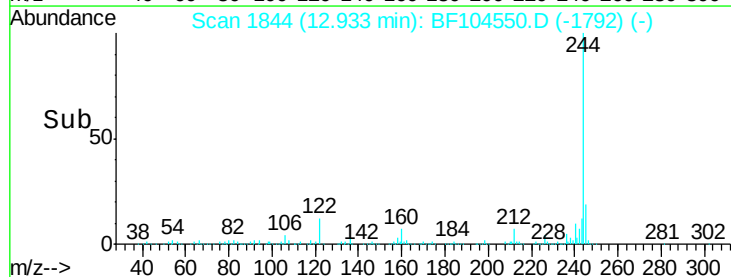
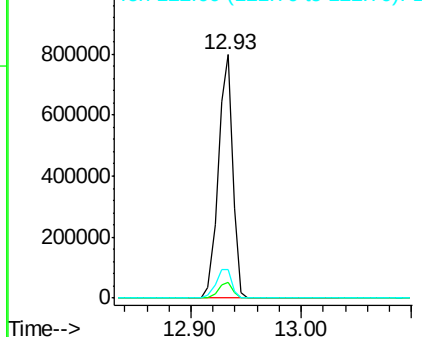


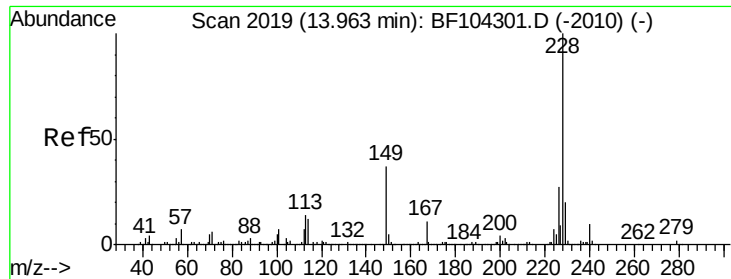
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





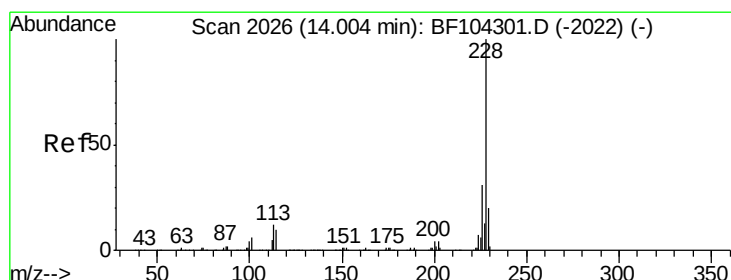
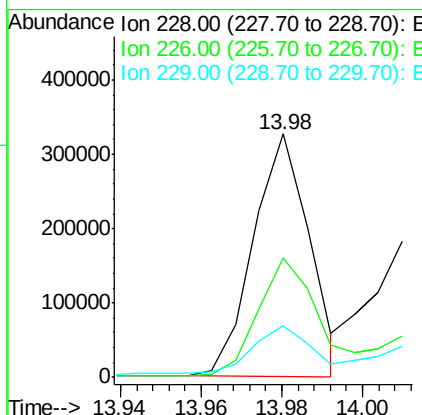
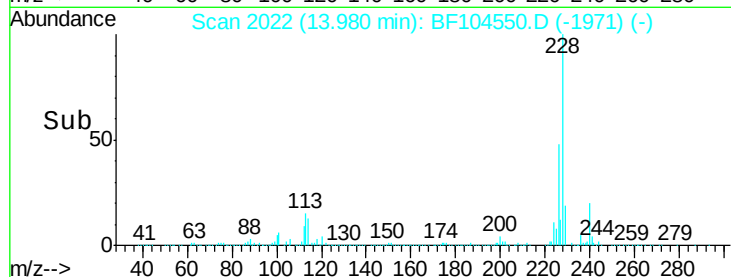
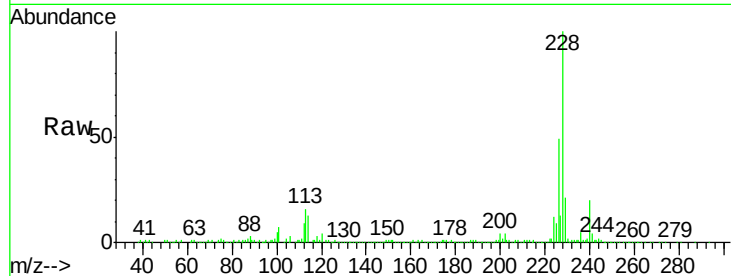
#80
Benzo(a)anthracene
Concen: 18.889 ng m
RT: 13.98 min Scan# 2022
Delta R.T. 0.00 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Instrument :
BNA_F
ClientSampleId :
CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
228	100		
226	49.3	22.6	33.8#
229	21.2	15.8	23.6

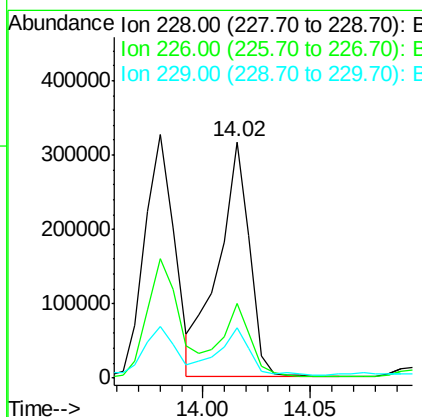
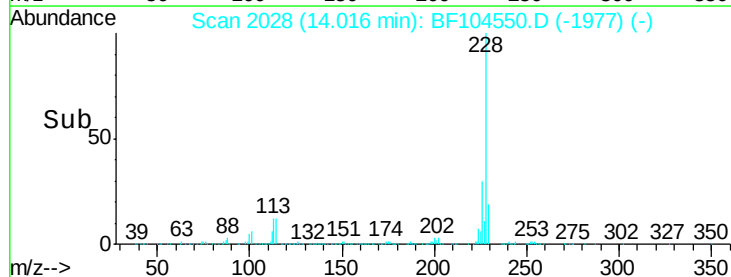
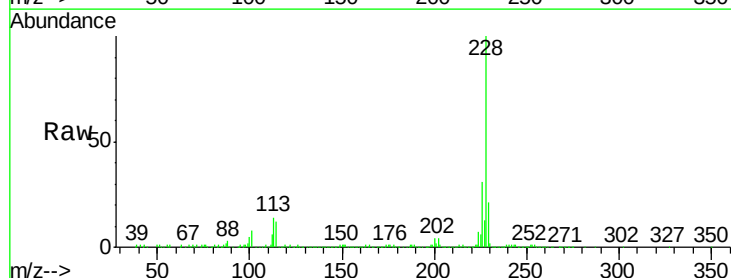
Manual Integrations
APPROVED

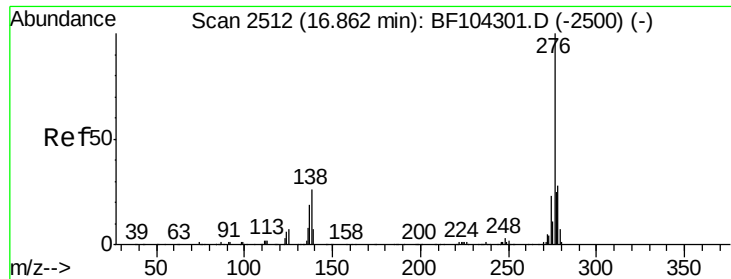
Sohil
4/17/2018 10:09:21 AM



#82
Chrysene
Concen: 19.124 ng m
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	21.1	16.2	24.4





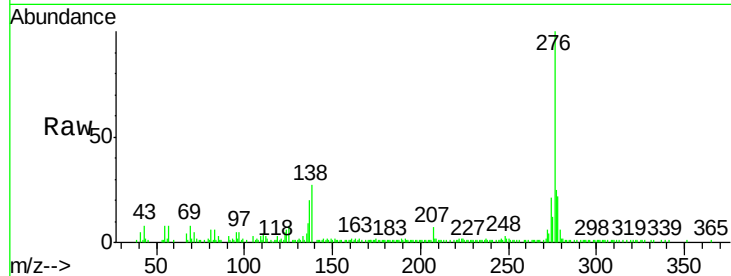
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.853 ng
 RT: 16.91 min Scan# 2520
 Delta R.T. -0.01 min
 Lab File: BF104550.D
 Acq: 16 Apr 2018 23:07

Instrument :
 BNA_F
 ClientSampleId :
 CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.0	25.0	37.6
277	25.0	20.1	30.1

Manual Integrations
 APPROVED

Sohil
 4/17/2018 10:09:21 AM

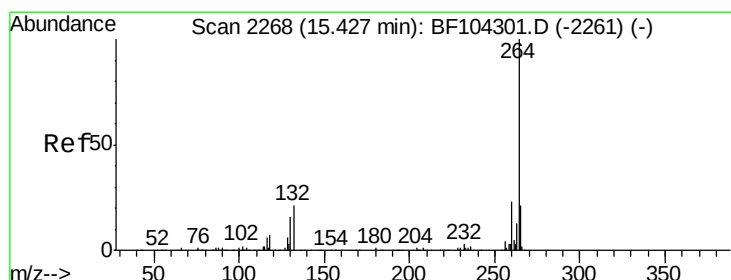
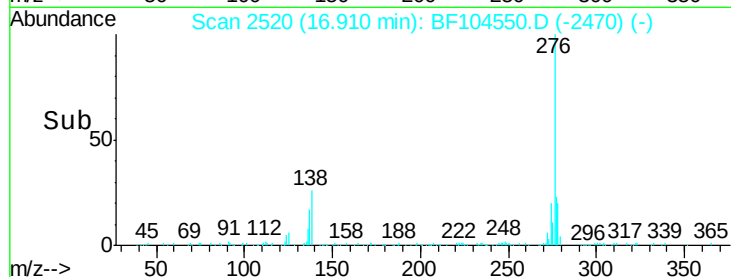
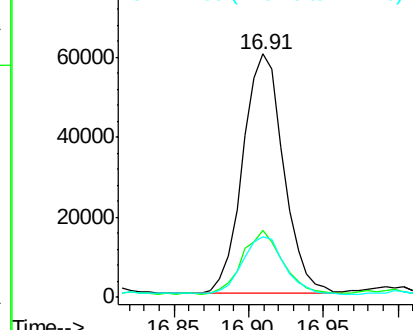


Abundance

Ion 276.00 (275.70 to 276.70): E

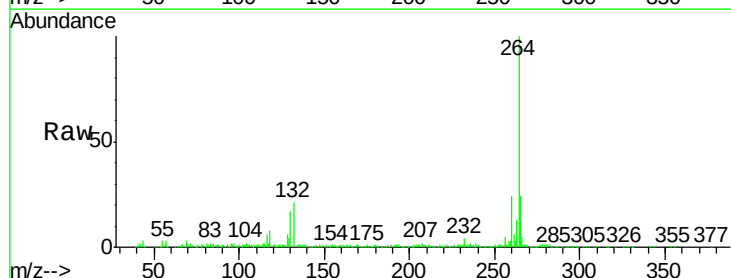
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: BF104550.D
 Acq: 16 Apr 2018 23:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	23.8	17.5	26.3

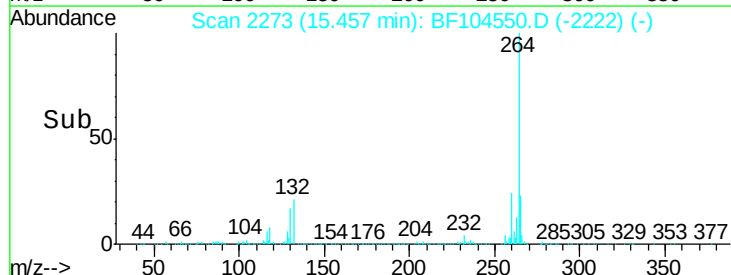
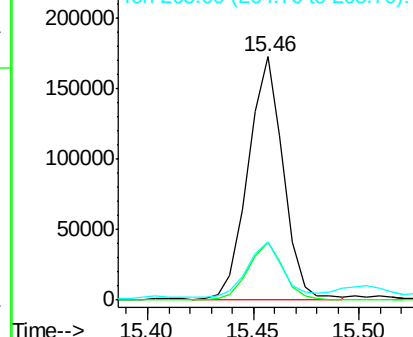


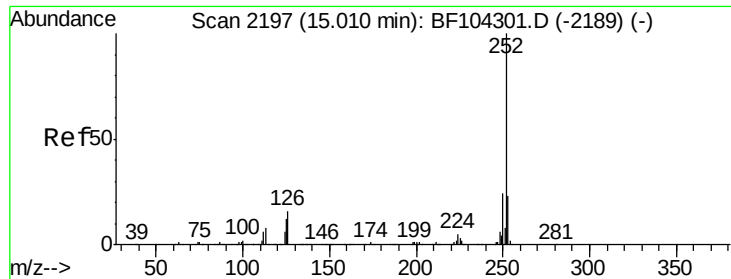
Abundance

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





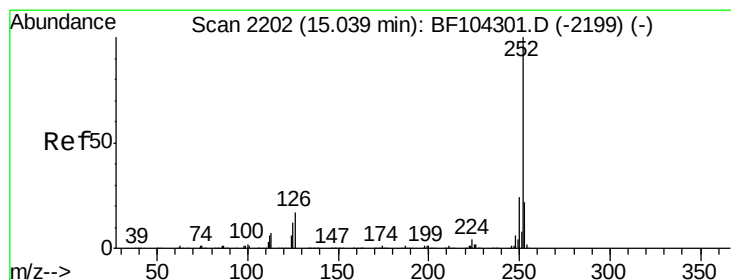
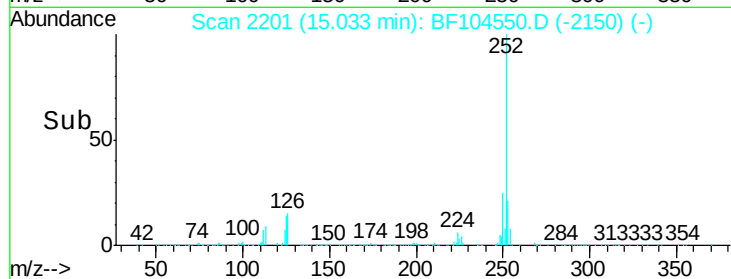
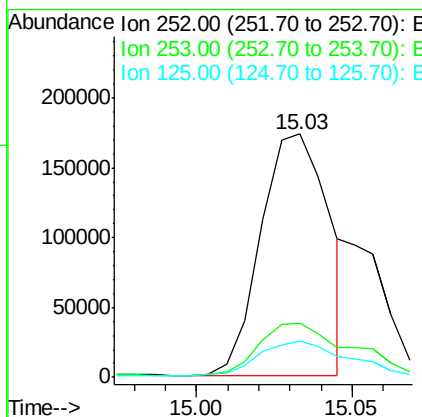
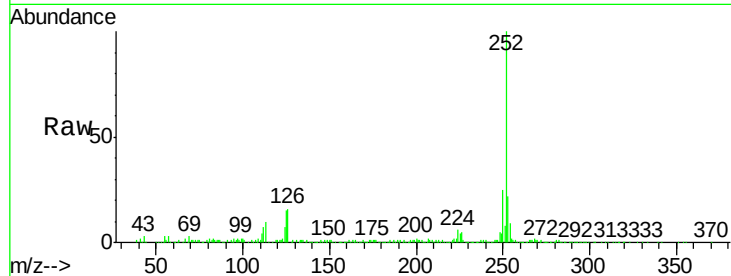
#87
Benzo(b)fluoranthene
Concen: 20.986 ng m
RT: 15.03 min Scan# 2201
Delta R.T. 0.00 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Instrument :
BNA_F
ClientSampleId :
CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.6
125	14.7	9.0	13.6

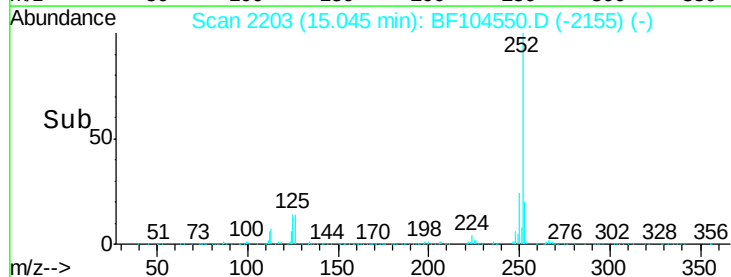
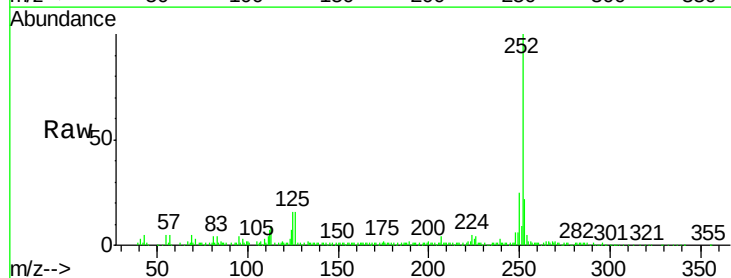
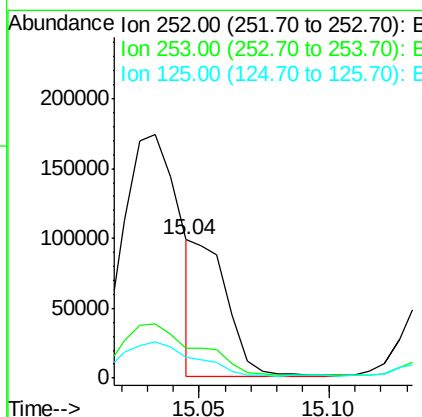
Manual Integrations
APPROVED

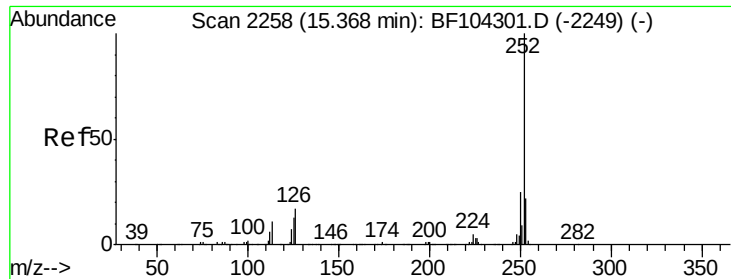
Sohil
4/17/2018 10:09:21 AM



#88
Benzo(k)fluoranthene
Concen: 7.457 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.02 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9
125	15.5	10.2	15.2





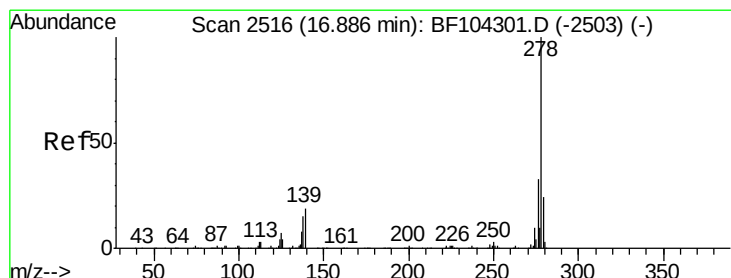
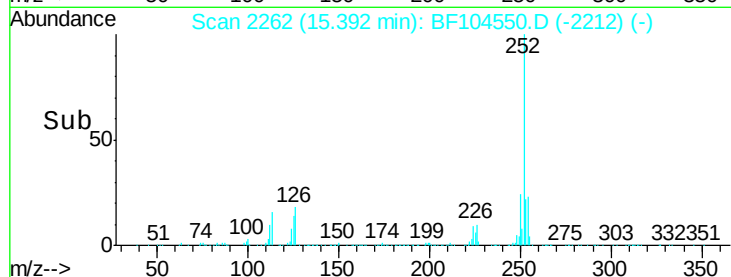
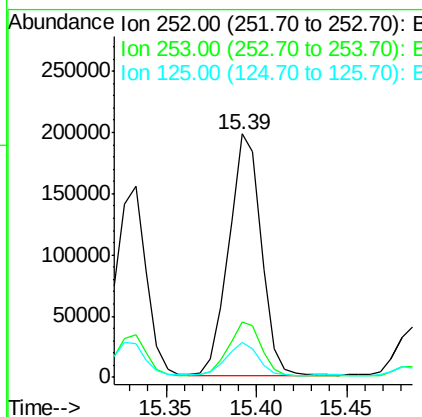
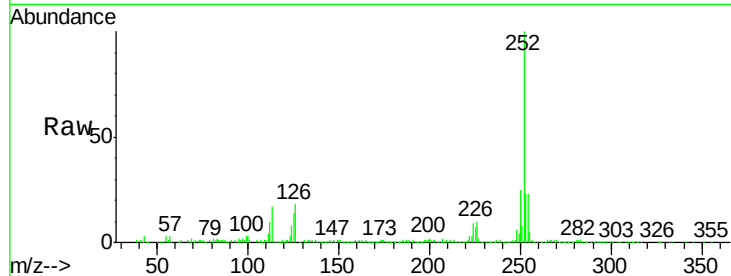
#89
Benzo(a)pyrene
Concen: 21.948 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.01 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Instrument :
BNA_F
ClientSampleId :
CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	14.3	9.8	14.6

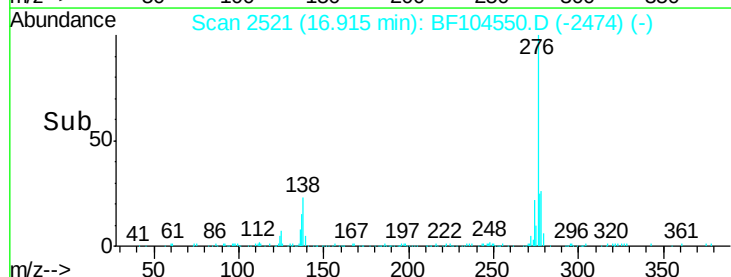
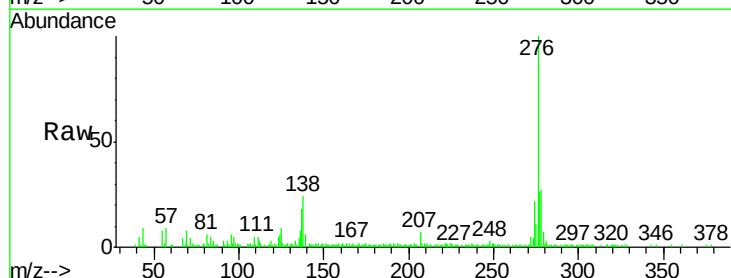
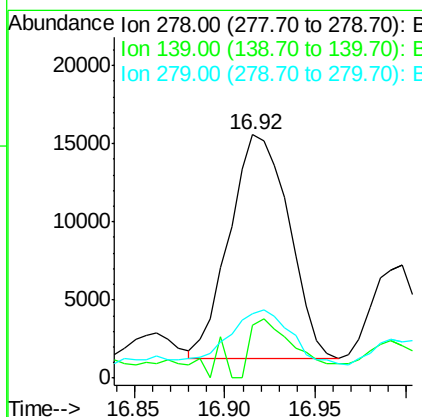
Manual Integrations
APPROVED

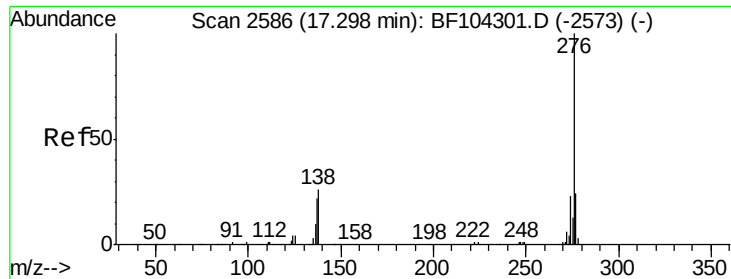
Sohil
4/17/2018 10:09:21 AM



#90
Dibenzo(a,h)anthracene
Concen: 3.578 ng
RT: 16.92 min Scan# 2521
Delta R.T. -0.02 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.7	15.9	23.9
279	26.5	19.0	28.4





#91
Benzo(a,h,i)perylene
Concen: 14.470 ng
RT: 17.36 min Scan# 2596
Delta R.T. -0.01 min
Lab File: BF104550.D
Acq: 16 Apr 2018 23:07

Instrument :
BNA_F
ClientSampleId :
CG-RO-7211981

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.1	17.9	26.9
138	25.0	21.8	32.8

Manual Integrations
APPROVED

Sohil
4/17/2018 10:09:21 AM

