

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042618\
 Data File : BF104873.D
 Acq On : 27 Apr 2018 10:05
 Operator : JU/SJ
 Sample : J2515-01 10X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-1-A

Manual Integrations
 APPROVED

Sohil
 4/27/2018 7:30:24 PM

Quant Time: Apr 27 14:10:08 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	102040	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	406332	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	164158	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	243281	20.00	ng	0.00
75) Chrysene-d12	13.97	240	212769	20.00	ng	-0.01
86) Perylene-d12	15.44	264	153145	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	79049	11.85	ng	0.00
7) Phenol-d6	6.43	99	101580	12.39	ng	-0.01
23) Nitrobenzene-d5	7.36	82	57368	9.22	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	17410	10.22	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	94876	9.13	ng	0.00
78) Terphenyl-d14	12.91	244	68321	7.32	ng	-0.01
Target Compounds						
48) Acenaphthylene	9.70	152	35447	2.074	ng	98
70) Phenanthrene	11.35	178	174231	12.860	ng	97
71) Anthracene	11.40	178	48890	3.550	ng	99
74) Fluoranthene	12.54	202	272950	19.283	ng	98
77) Pyrene	12.77	202	227297	14.412	ng	98
80) Benzo(a)anthracene	13.96	228	136175	10.713	ng	99
82) Chrysene	14.00	228	121483	9.305	ng	96
85) Indeno(1,2,3-cd)pyrene	16.89	276	47717	4.302	ng	# 91
87) Benzo(b)fluoranthene	15.02	252	136119m	14.073	ng	
88) Benzo(k)fluoranthene	15.04	252	35340m	3.870	ng	
89) Benzo(a)pyrene	15.37	252	82262	9.505	ng	96
90) Dibenzo(a,h)anthracene	16.90	278	14979	2.107	ng	# 89
91) Benzo(a,h,i)perylene	17.34	276	45941	6.671	ng	94

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

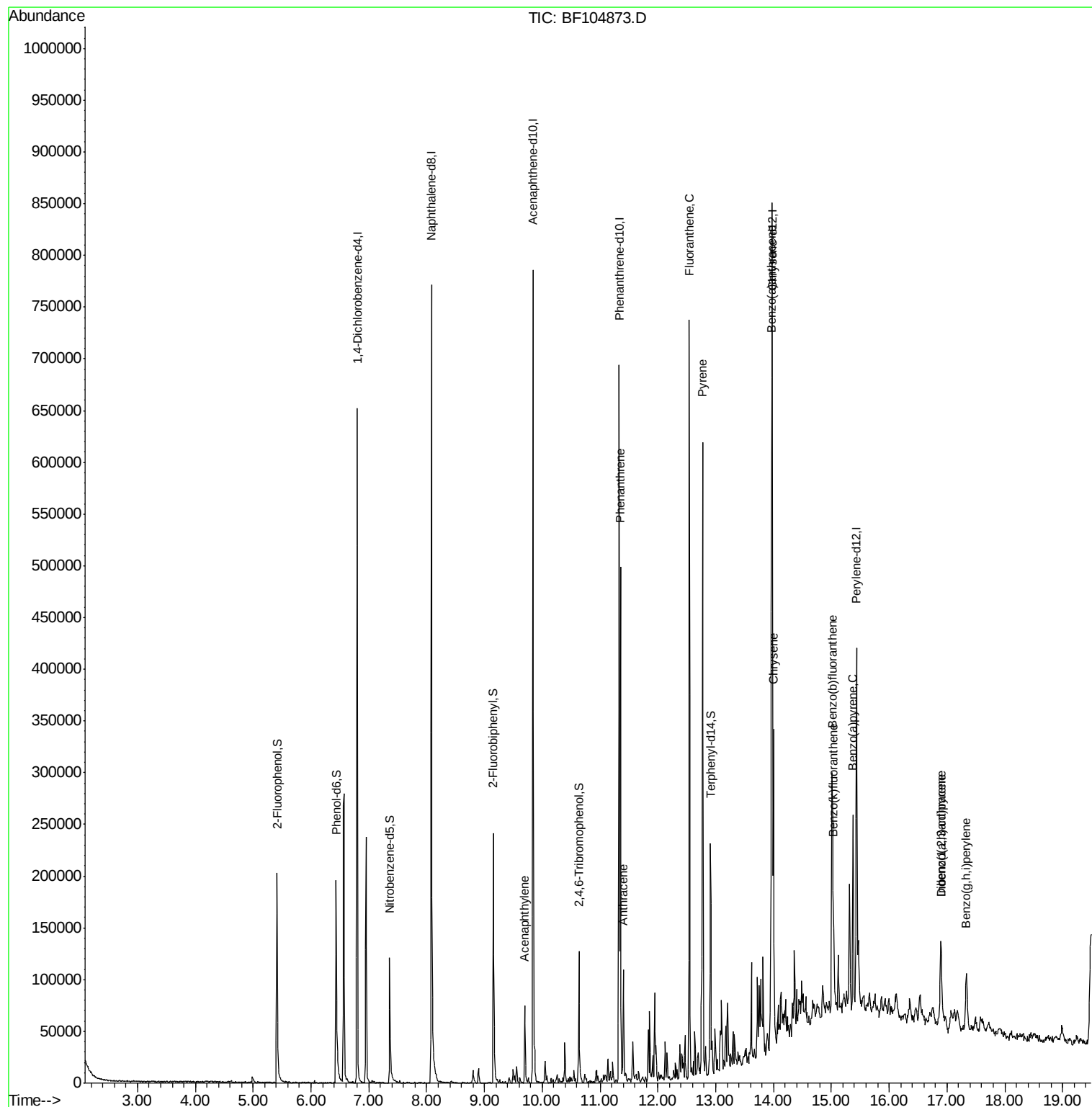
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042618\
Data File : BF104873.D
Acq On : 27 Apr 2018 10:05
Operator : JU/SJ
Sample : J2515-01 10X
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
S-1-A

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:24 PM

Quant Time: Apr 27 14:10:08 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 25 14:01:50 2018
Response via : Initial Calibration





#1

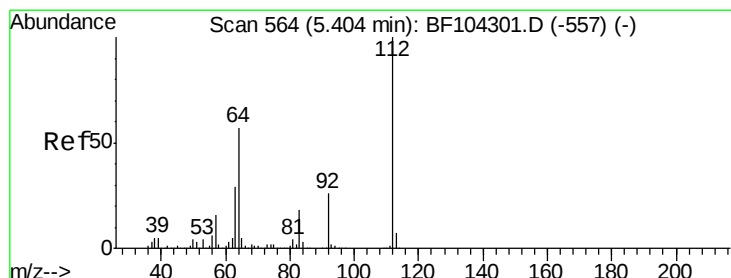
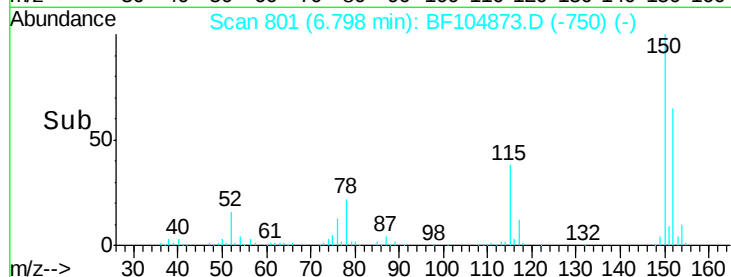
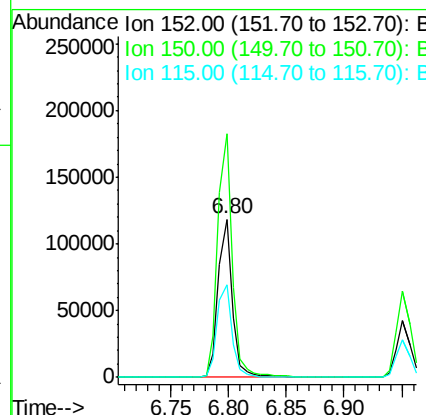
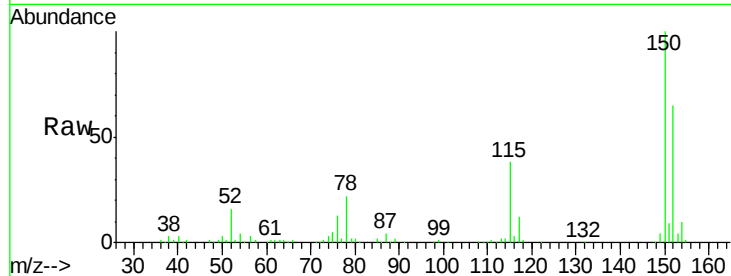
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampled :
S-1-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.7	124.6	186.8
115	58.8	50.1	75.1

Manual Integrations
APPROVED

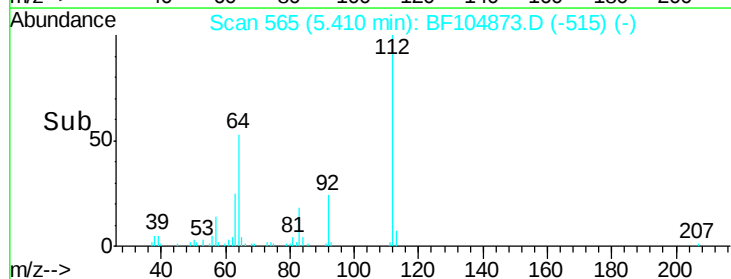
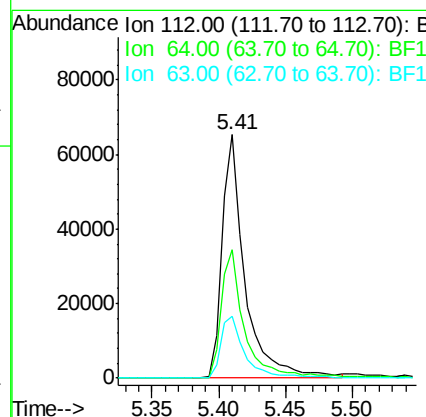
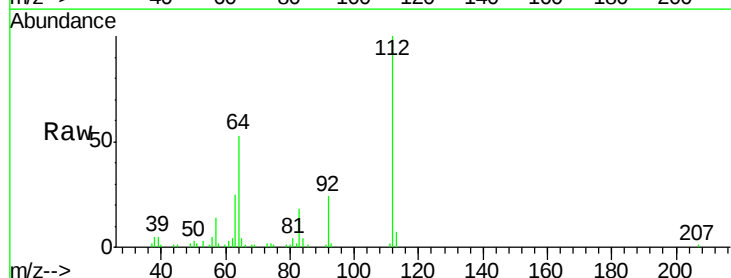
Sohil
4/27/2018 7:30:24 PM



#5

2-Fluorophenol
Concen: 11.845 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	47.9	71.9
63	25.3	23.7	35.5





#7

Phenol-d6

Concen: 12.389 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Instrument :

BNA_F

ClientSampled :

S-1-A

Tot Ion: 99 Resp: 101580

Ion Ratio Lower Upper

99 100

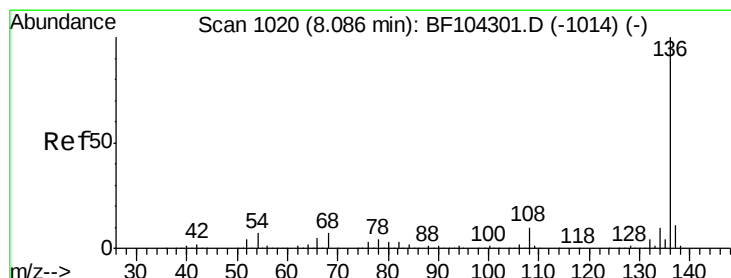
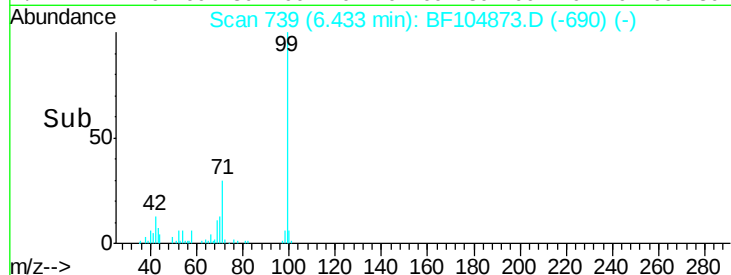
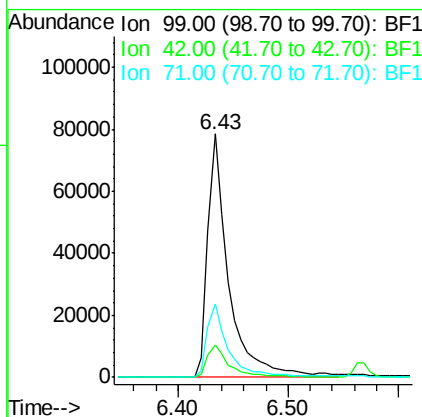
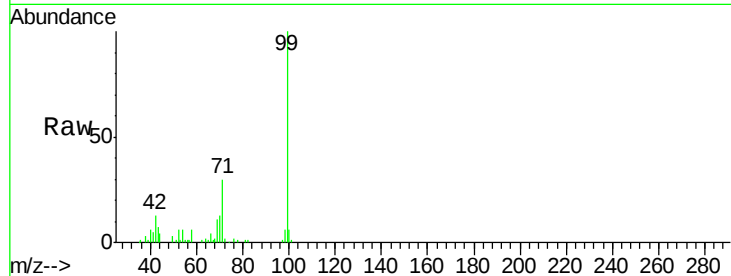
42 13.3 14.5 21.7#

71 30.0 25.4 38.0

Manual Integrations
APPROVED

Sohil

4/27/2018 7:30:24 PM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Tgt Ion: 136 Resp: 406332

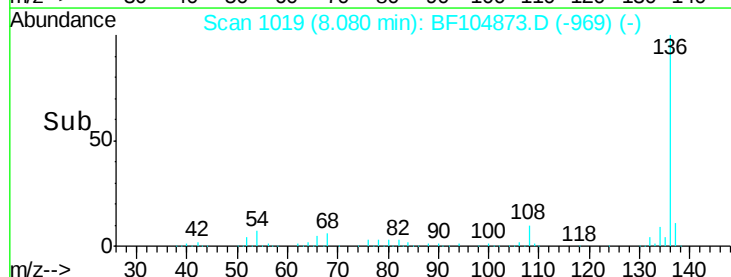
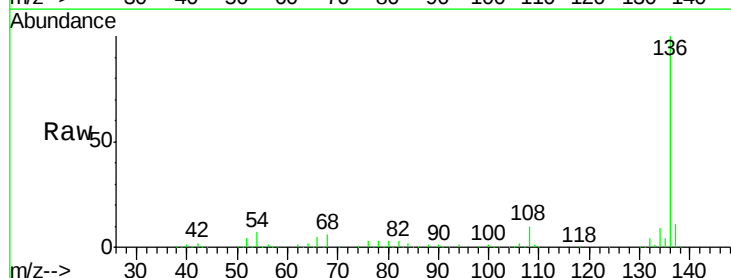
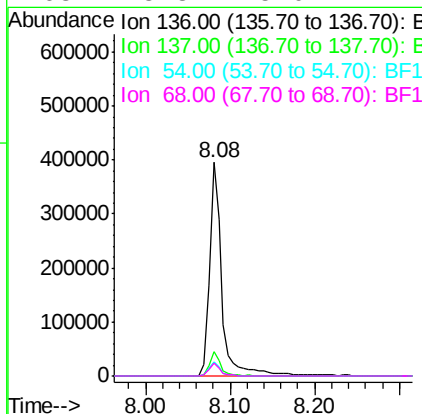
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 6.6 6.6 9.8

68 5.8 5.0 7.4





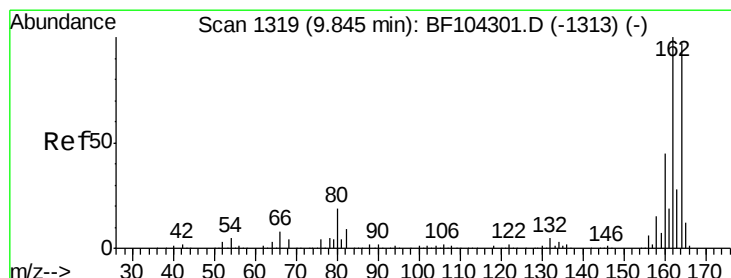
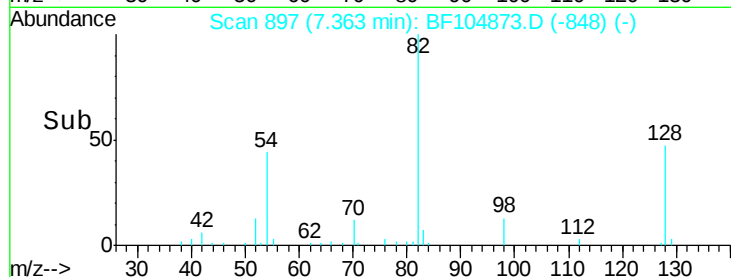
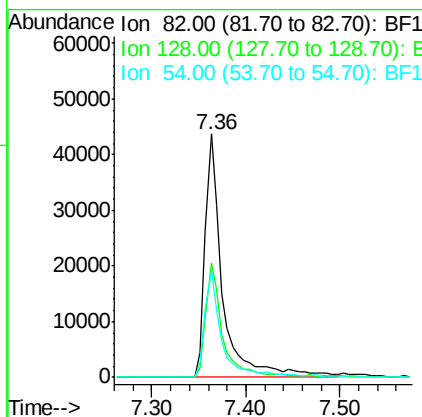
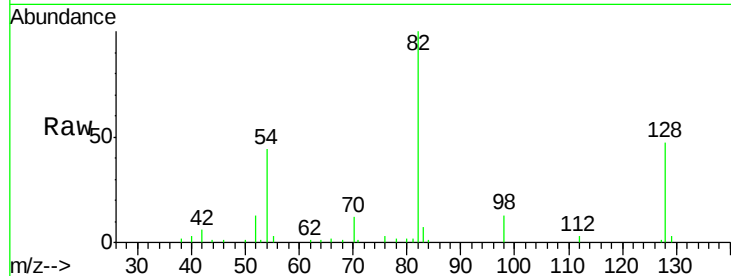
#23
 Nitrobenzene-d5
 Concen: 9.219 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Instrument :
 BNA_F
 ClientSampled :
 S-1-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.1	36.1	54.1
54	44.0	41.4	62.2

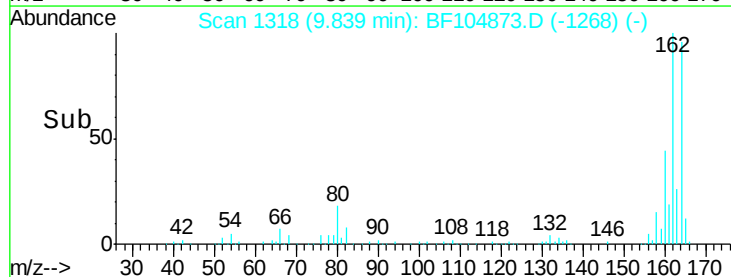
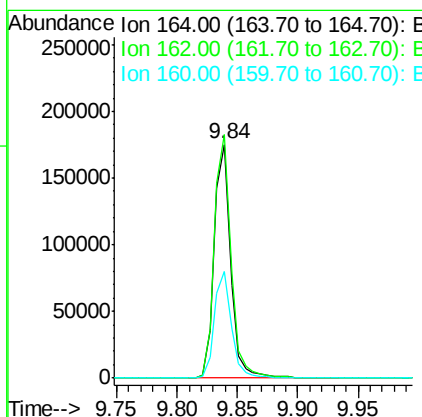
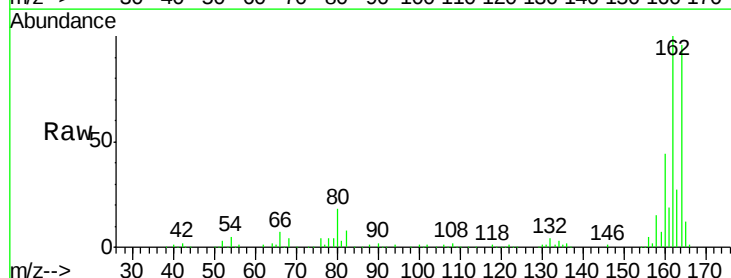
Manual Integrations
 APPROVED

Sohil
 4/27/2018 7:30:24 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	86.1	129.1
160	45.9	38.3	57.5





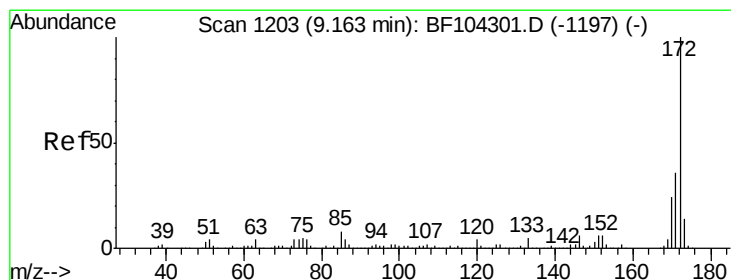
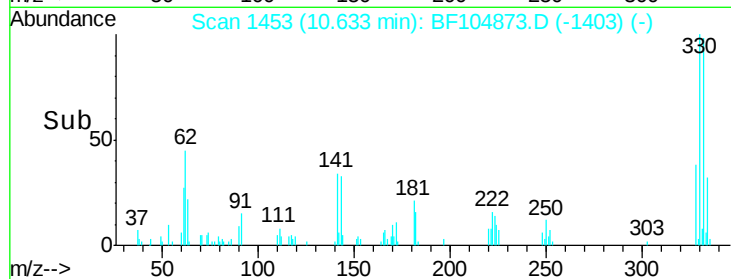
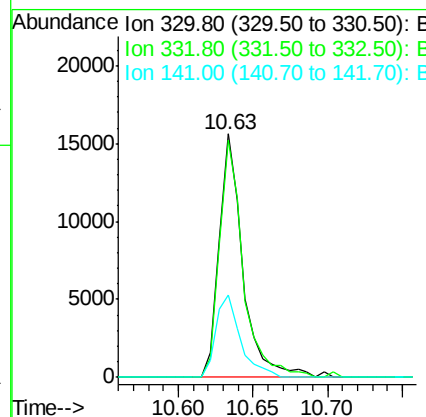
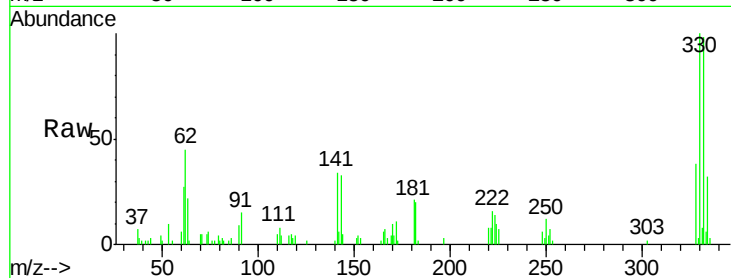
#41
 2,4,6-Tribromophenol
 Concen: 10.224 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Instrument :
 BNA_F
 ClientSampled :
 S-1-A

Tot Ion	Ratio	Resp	Lower	Upper
330	100	17410		
332	97.3	77.0	115.6	
141	34.7	29.9	44.9	

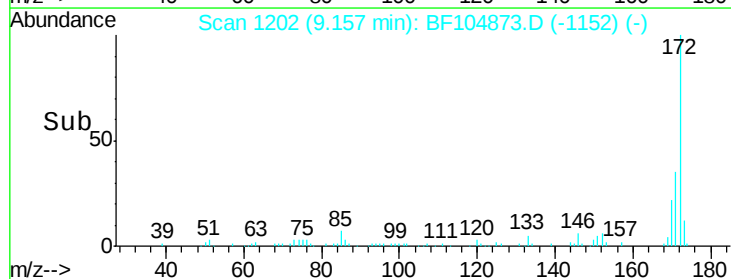
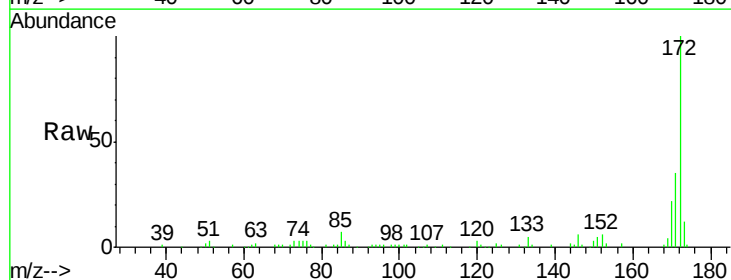
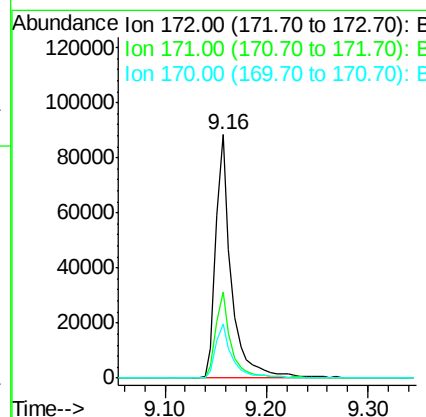
Manual Integrations
 APPROVED

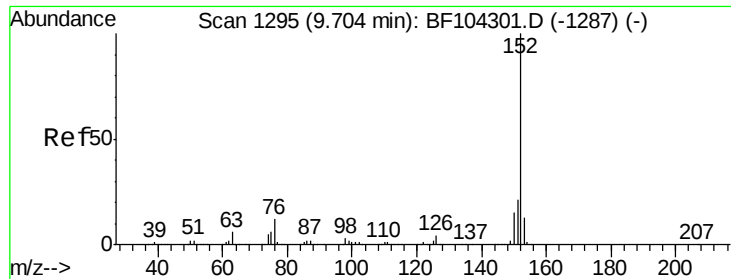
Sohil
 4/27/2018 7:30:24 PM



#44
 2-Fluorobiphenyl
 Concen: 9.130 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	94876		
171	35.3	29.7	44.5	
170	22.2	19.6	29.4	





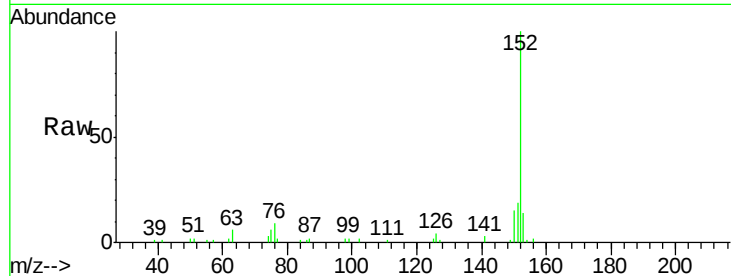
#48
Acenaphthylene
Concen: 2.074 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampleId :
S-1-A

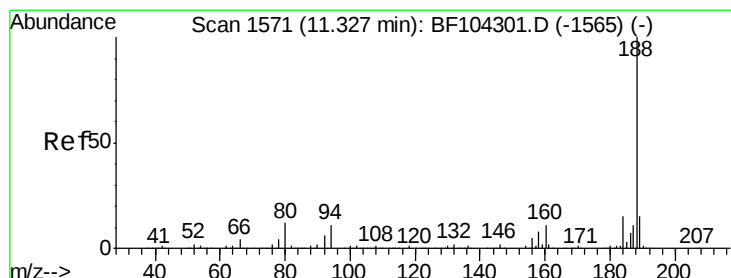
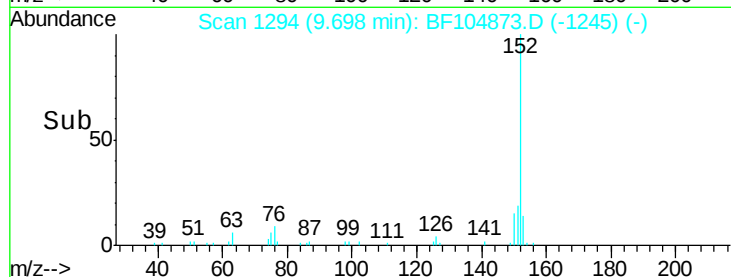
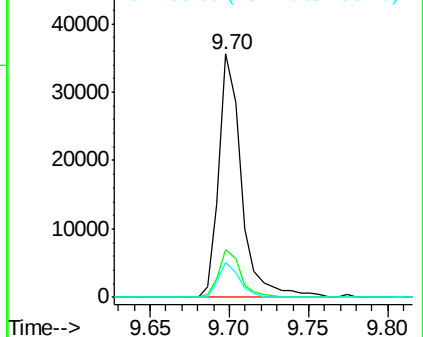
Tot Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.3	24.5
153	14.2	10.7	16.1

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:24 PM



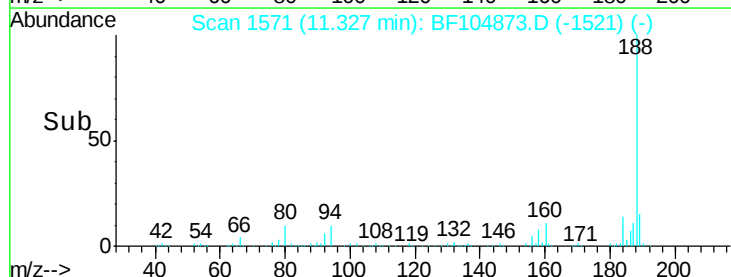
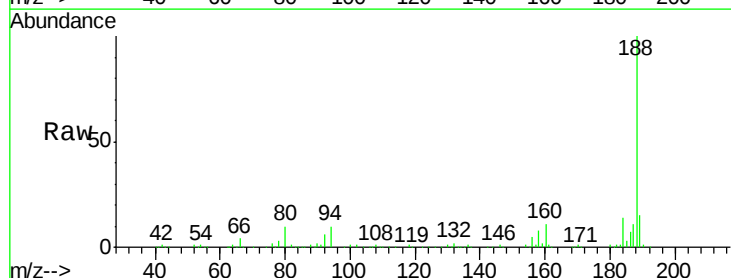
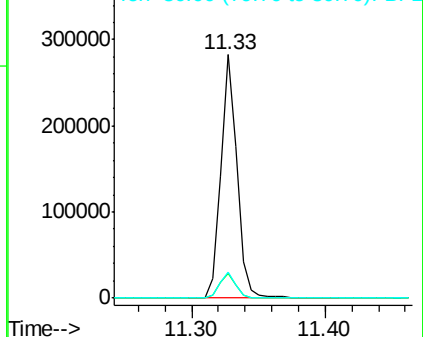
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

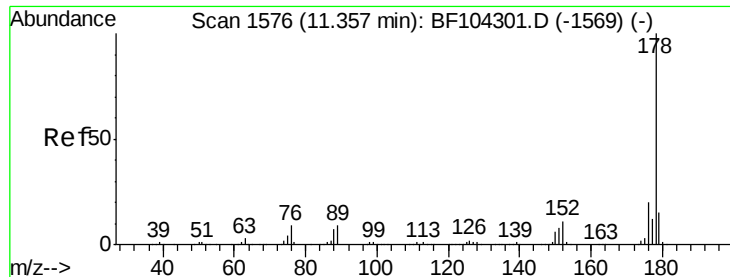


#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.5	12.7
80	10.5	9.2	13.8

Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1





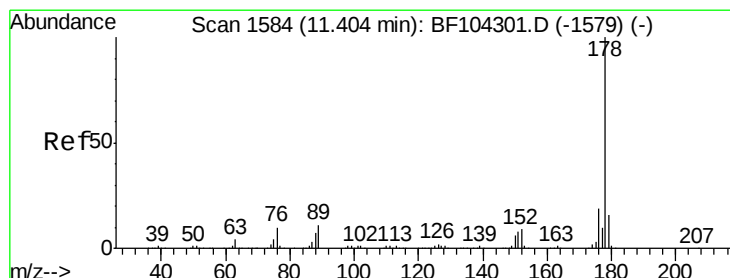
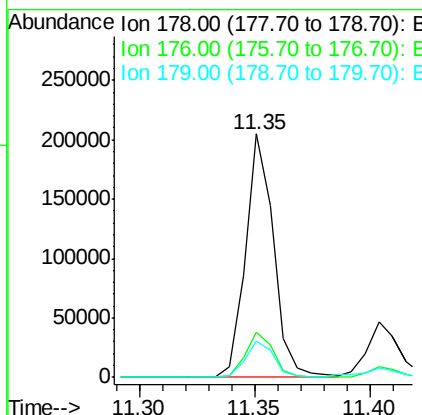
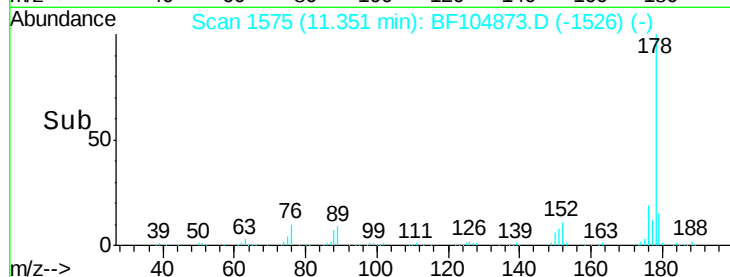
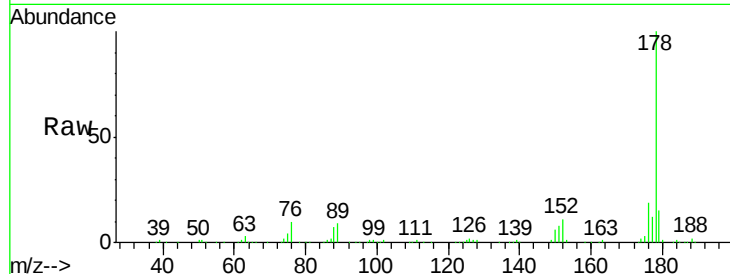
#70
Phenanthrene
Concen: 12.860 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampled :
S-1-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	14.9	13.0	19.6

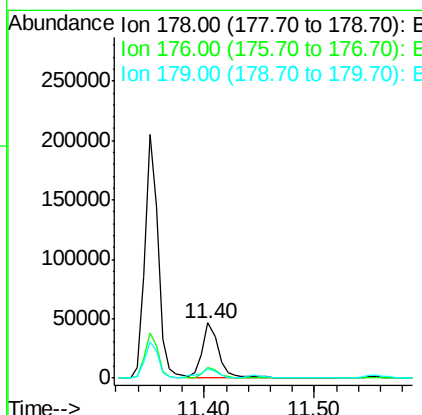
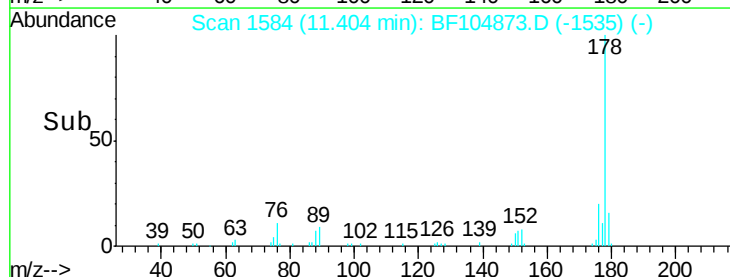
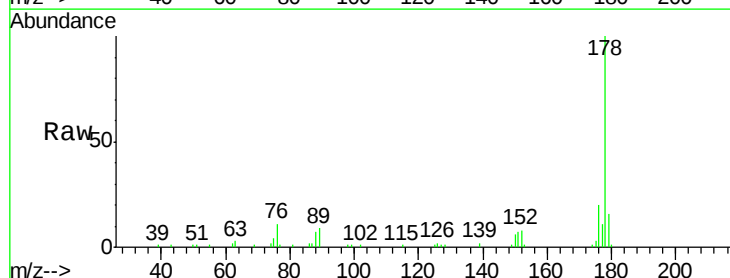
Manual Integrations
APPROVED

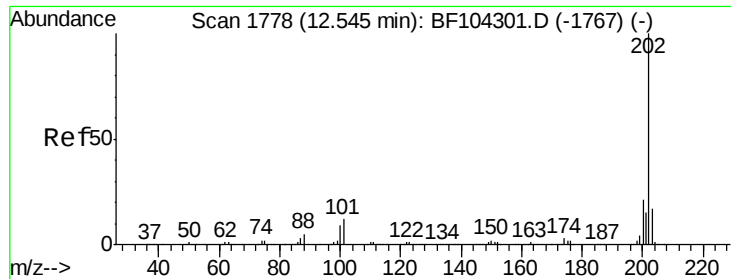
Sohil
4/27/2018 7:30:24 PM



#71
Anthracene
Concen: 3.550 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.2
179	16.0	12.6	19.0





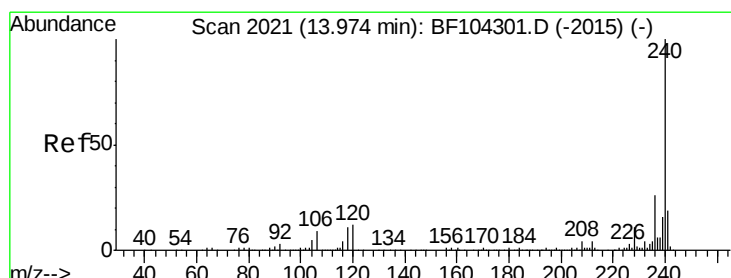
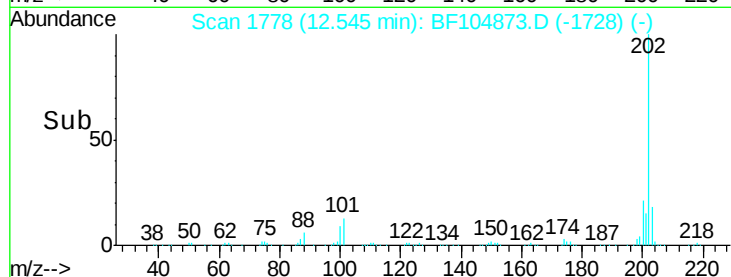
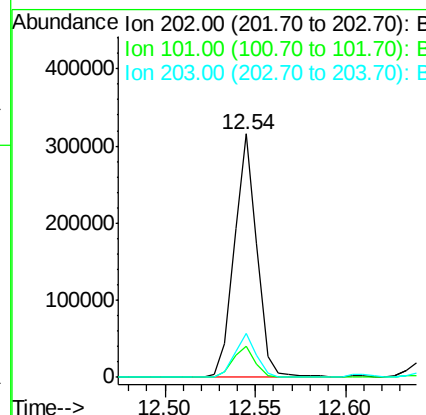
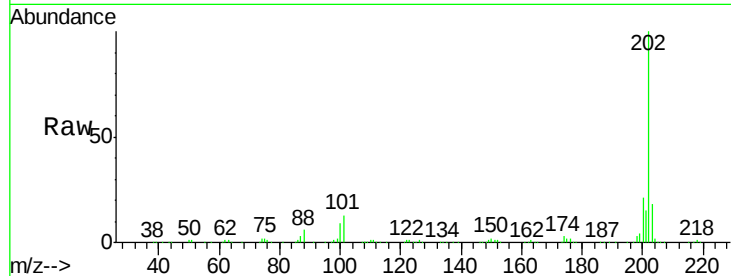
#74
 Fluoranthene
 Concen: 19.283 ng
 RT: 12.54 min Scan# 1778
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Instrument :
 BNA_F
 ClientSampleId :
 S-1-A

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.6	0.0	34.1
203	18.0	0.0	38.1

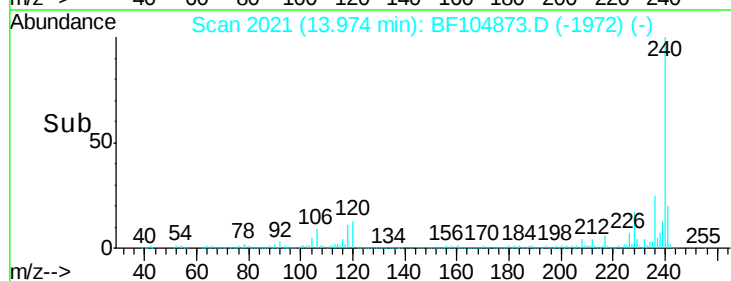
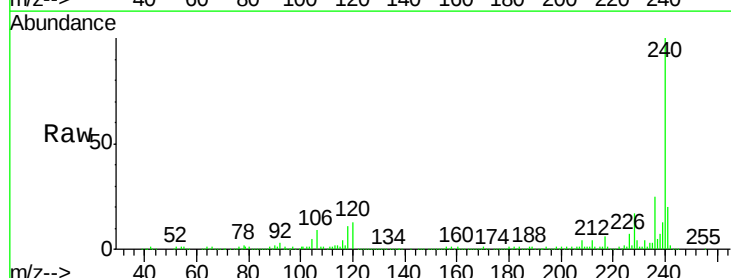
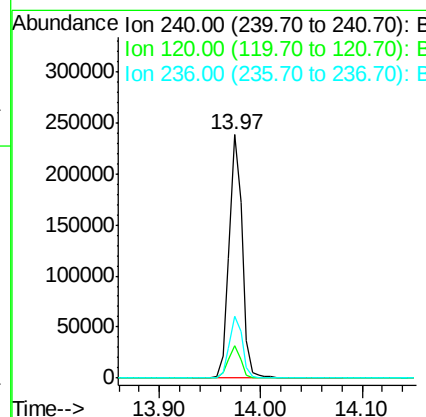
Manual Integrations
 APPROVED

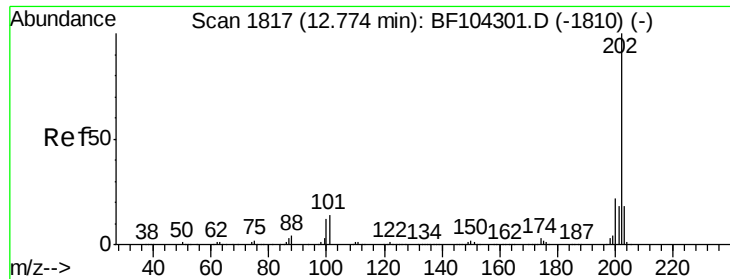
Sohil
 4/27/2018 7:30:24 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.97 min Scan# 2021
 Delta R.T. -0.01 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.2	9.5	14.3
236	25.5	20.7	31.1





#77

Pvrene

Concen: 14.412 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Instrument :

BNA_F

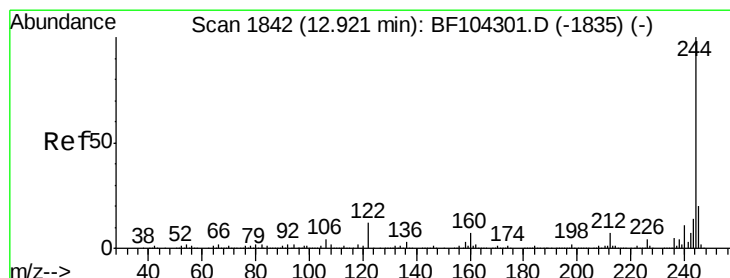
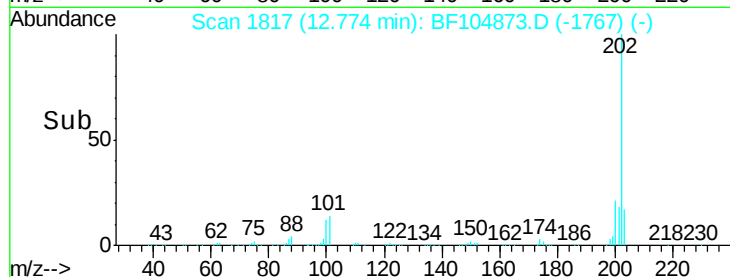
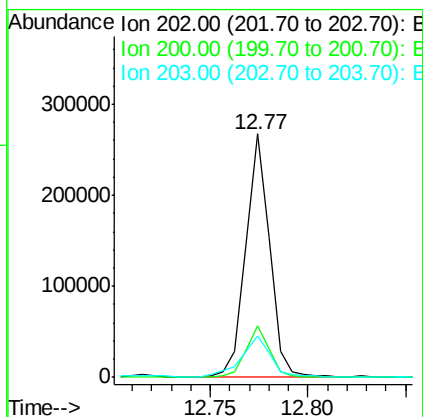
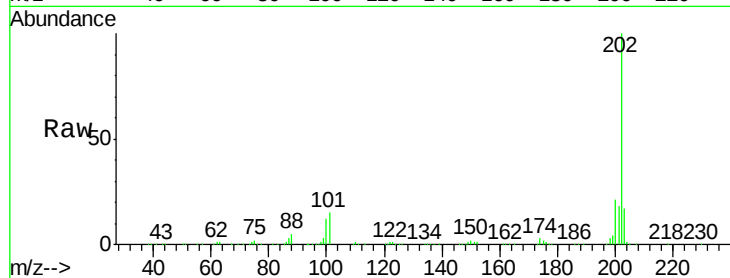
ClientSampleId :

S-1-A

Tot Ion:	202	Resp:	227297
Ion Ratio		Lower	Upper
202	100		
200	21.2	17.4	26.2
203	17.1	14.3	21.5

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:24 PM



#78

Terphenyl-d14

Concen: 7.321 ng

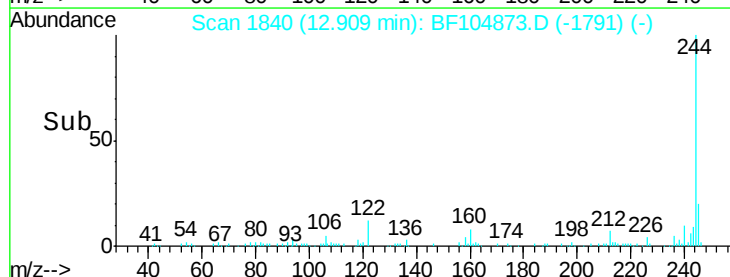
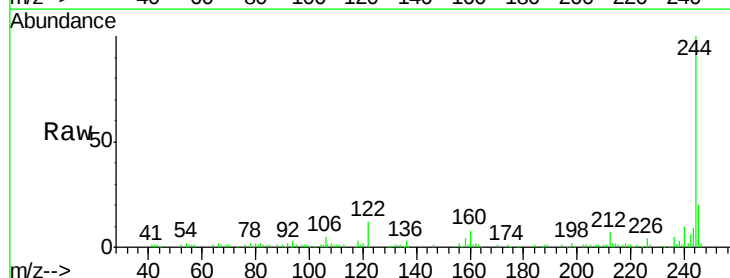
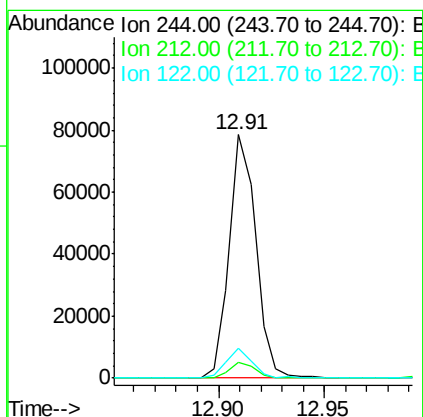
RT: 12.91 min Scan# 1840

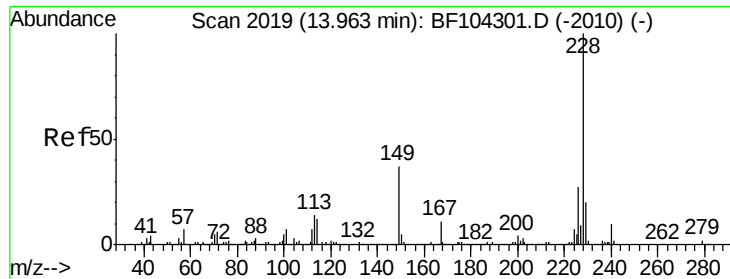
Delta R.T. -0.01 min

Lab File: BF104873.D

Acq: 27 Apr 2018 10:05

Tgt Ion:	244	Resp:	68321
Ion Ratio		Lower	Upper
244	100		
212	6.6	5.4	8.0
122	12.5	11.0	16.4





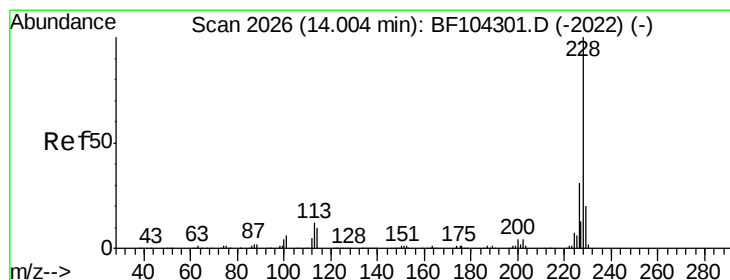
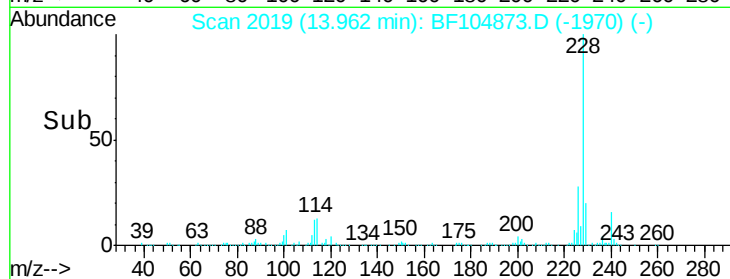
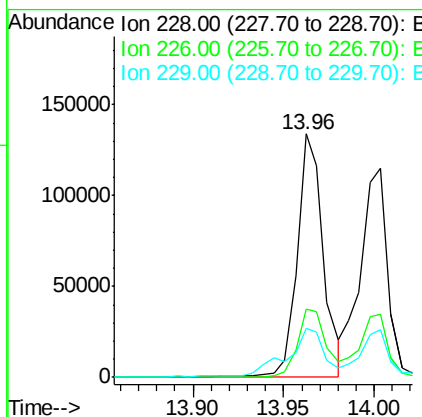
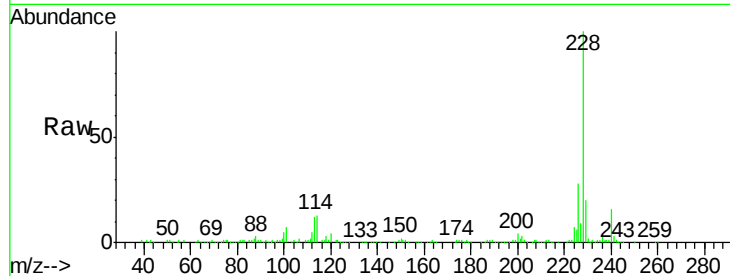
#80
Benzo(a)anthracene
Concen: 10.713 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampleId :
S-1-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	20.2	15.8	23.6

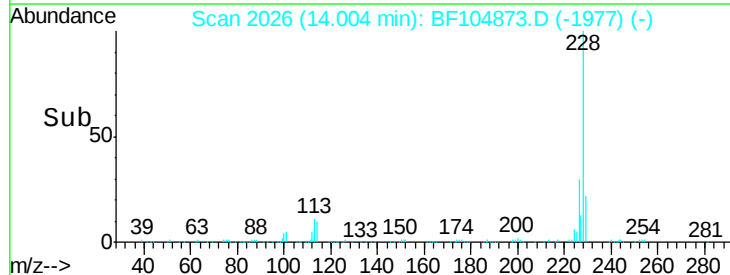
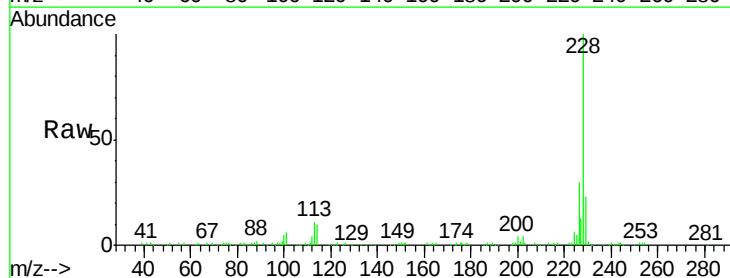
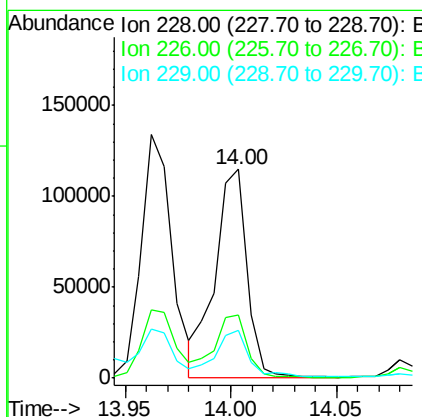
Manual Integrations
APPROVED

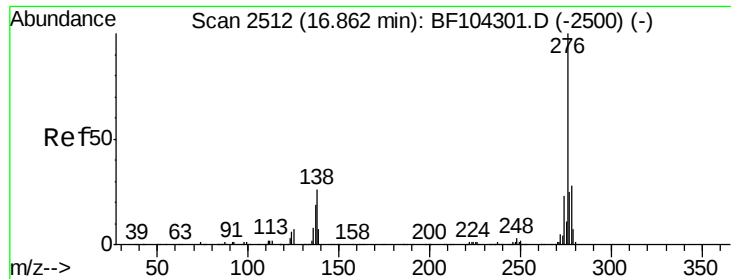
Sohil
4/27/2018 7:30:24 PM



#82
Chrysene
Concen: 9.305 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.0	37.6
229	23.1	16.2	24.4





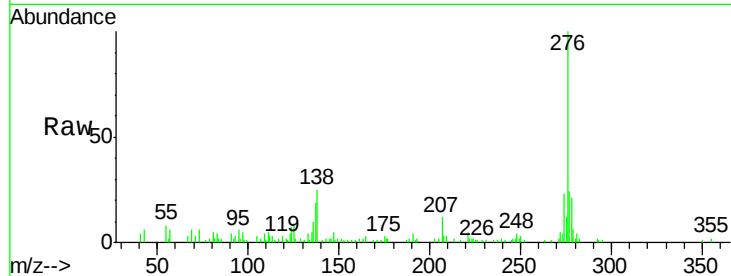
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.302 ng
RT: 16.89 min Scan# 2517
Delta R.T. -0.04 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampleId :
S-1-A

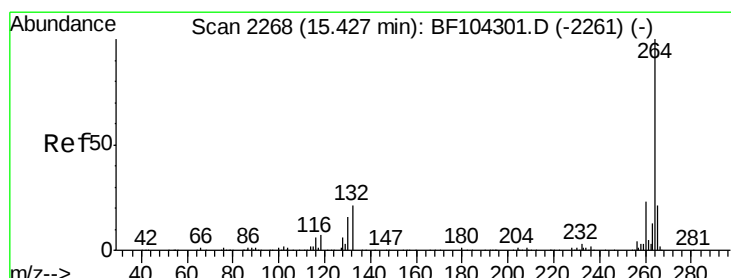
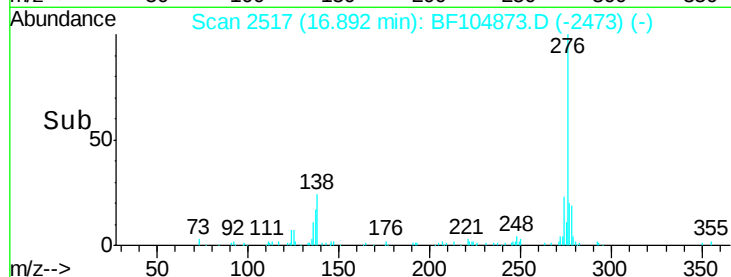
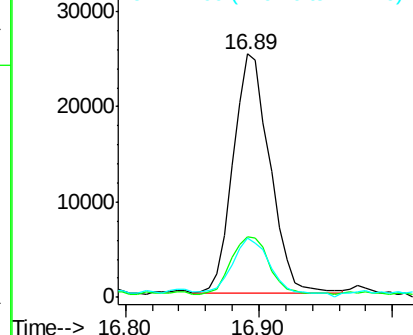
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.9	25.0	37.6#
277	27.8	20.1	30.1

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:24 PM

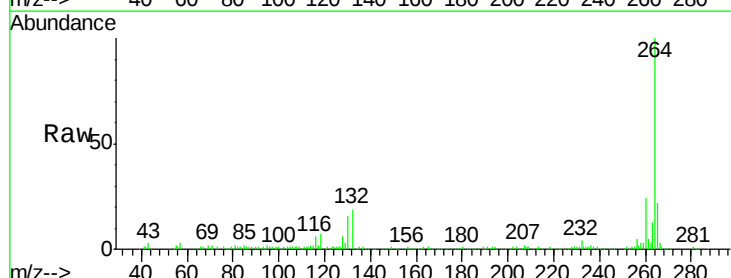


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

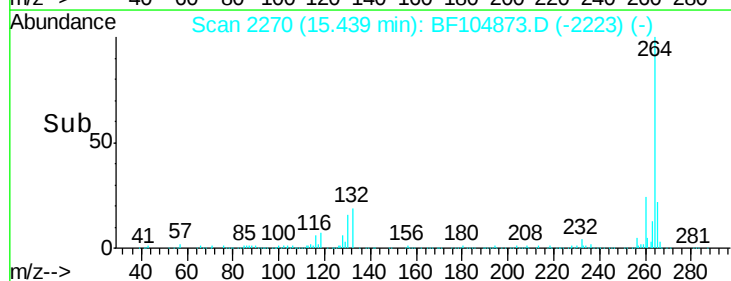
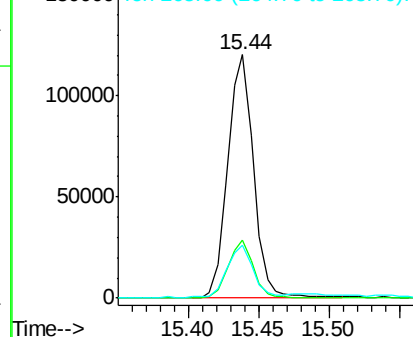


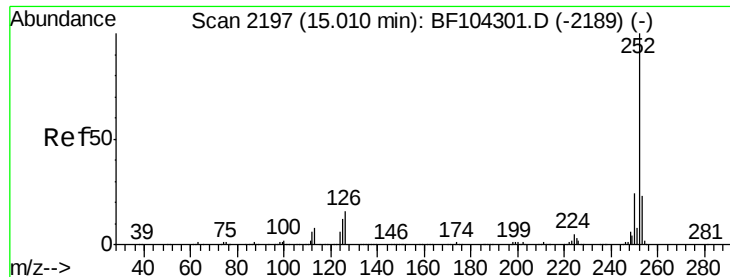
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.6	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





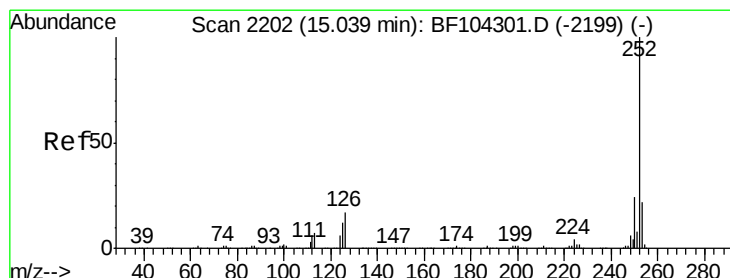
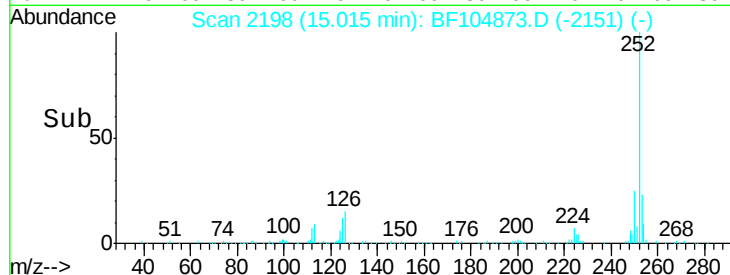
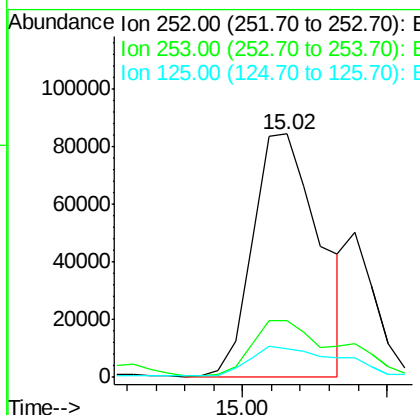
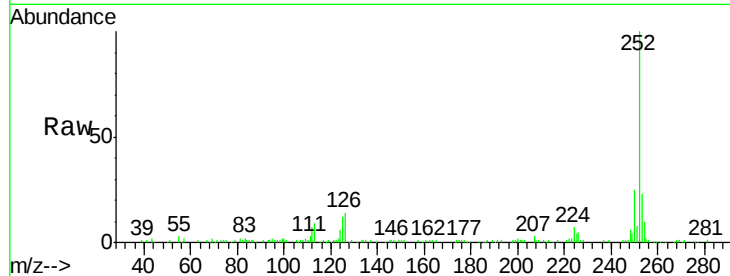
#87
Benzo(b)fluoranthene
Concen: 14.073 ng m
RT: 15.02 min Scan# 2198
Delta R.T. -0.02 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampleId :
S-1-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	11.9	9.0	13.6

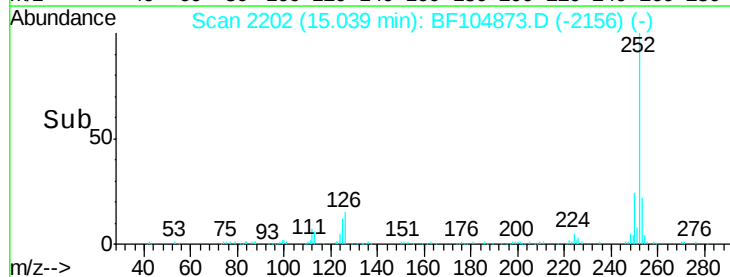
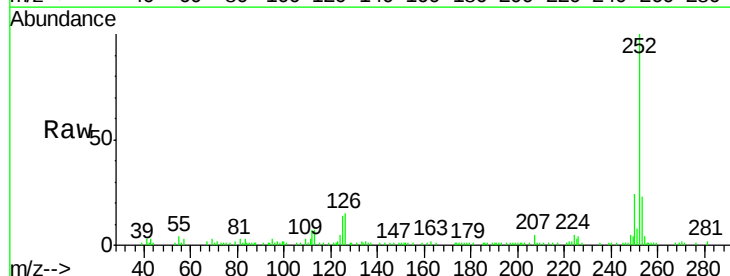
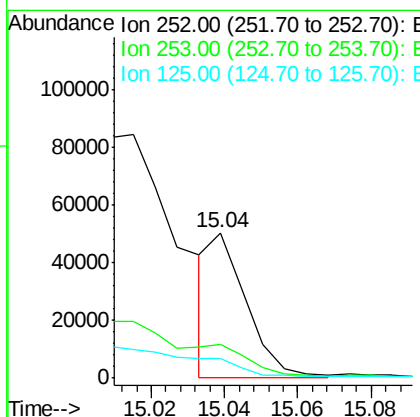
Manual Integrations
APPROVED

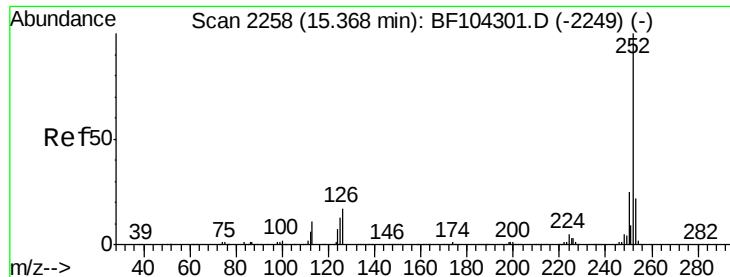
Sohil
4/27/2018 7:30:24 PM



#88
Benzo(k)fluoranthene
Concen: 3.870 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.03 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	13.7	10.2	15.2





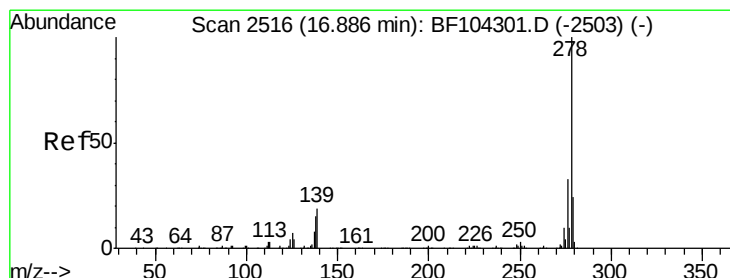
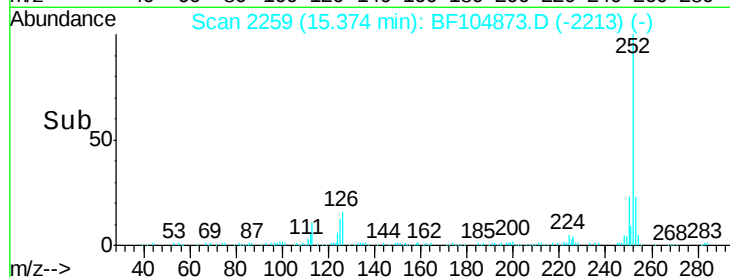
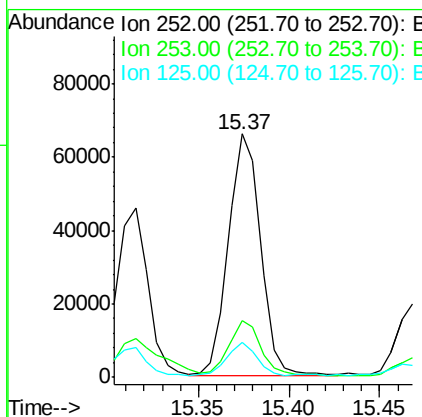
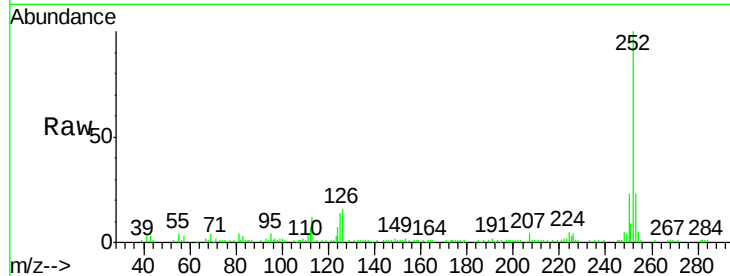
#89
Benzo(a)pyrene
Concen: 9.505 ng
RT: 15.37 min Scan# 2259
Delta R.T. -0.03 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Instrument :
BNA_F
ClientSampled :
S-1-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	14.1	9.8	14.6

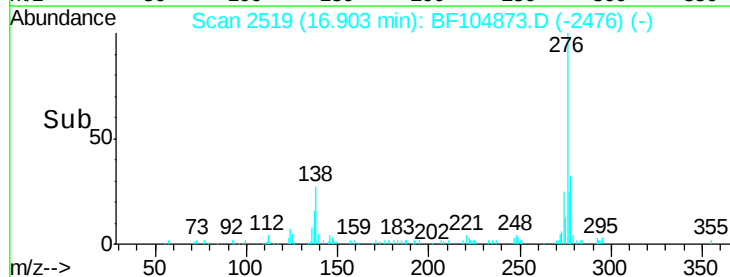
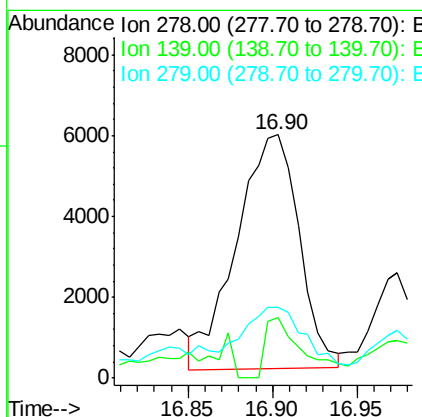
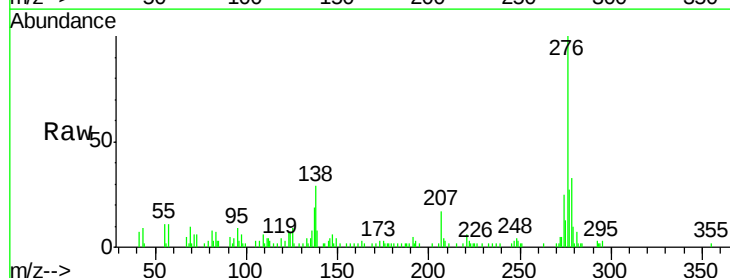
Manual Integrations
APPROVED

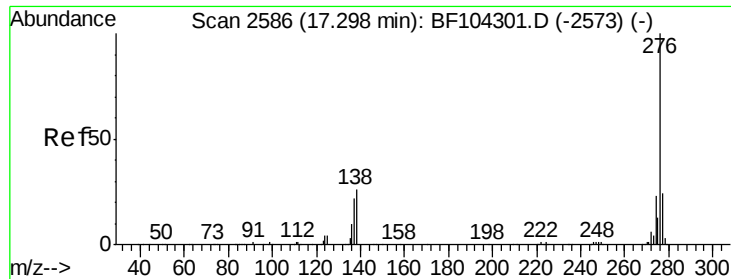
Sohil
4/27/2018 7:30:24 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.107 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.05 min
Lab File: BF104873.D
Acq: 27 Apr 2018 10:05

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.9	15.9	23.9#
279	29.0	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 6.671 ng
 RT: 17.34 min Scan# 2593
 Delta R.T. -0.04 min
 Lab File: BF104873.D
 Acq: 27 Apr 2018 10:05

Instrument :
 BNA_F
 ClientSampleId :
 S-1-A

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	22.5	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 4/27/2018 7:30:24 PM

