

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
 Data File : BF104745.D
 Acq On : 24 Apr 2018 9:09
 Operator : JU/SJ
 Sample : J2497-04 5X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-SE-2

Manual Integrations
 APPROVED

Sohil
 4/24/2018 3:49:20 PM

Quant Time: Apr 24 12:11:47 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 23 15:38:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	96768	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	381341	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	159561	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	270764	20.00	ng	0.01
75) Chrysene-d12	14.00	240	160922	20.00	ng	0.01
86) Perylene-d12	15.47	264	127481	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	24144	3.82	ng	0.02
7) Phenol-d6	6.46	99	29310	3.77	ng	0.01
23) Nitrobenzene-d5	7.37	82	14762	2.53	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	6416	3.88	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	35026	3.47	ng	0.00
78) Terphenyl-d14	12.93	244	31745	4.50	ng	0.00
Target Compounds						
31) Naphthalene	8.12	128	135728	7.148	ng	98
37) 2-Methylnaphthalene	8.81	142	28441	2.316	ng	96
48) Acenaphthylene	9.72	152	198251	11.934	ng	99
51) Acenaphthene	9.89	154	32098	3.167	ng	99
54) Dibenzofuran	10.06	168	40700	2.881	ng	# 97
57) Fluorene	10.40	166	88014	8.561	ng	100
70) Phenanthrene	11.37	178	513313	34.042	ng	99
71) Anthracene	11.42	178	210183	13.713	ng	99
74) Fluoranthene	12.57	202	704481	44.717	ng	96
77) Pyrene	12.80	202	680467	57.047	ng	99
80) Benzo(a)anthracene	13.99	228	296901m	30.883	ng	
82) Chrysene	14.02	228	265005m	26.837	ng	
85) Indeno(1,2,3-cd)pyrene	16.94	276	131207m	15.641	ng	
87) Benzo(b)fluoranthene	15.04	252	257845m	32.025	ng	
88) Benzo(k)fluoranthene	15.07	252	100399m	13.208	ng	
89) Benzo(a)pyrene	15.41	252	204170	28.341	ng	# 91
90) Dibenzo(a,h)anthracene	16.94	278	31569	5.336	ng	# 73
91) Benzo(g,h,i)perylene	17.39	276	157737	27.517	ng	94

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

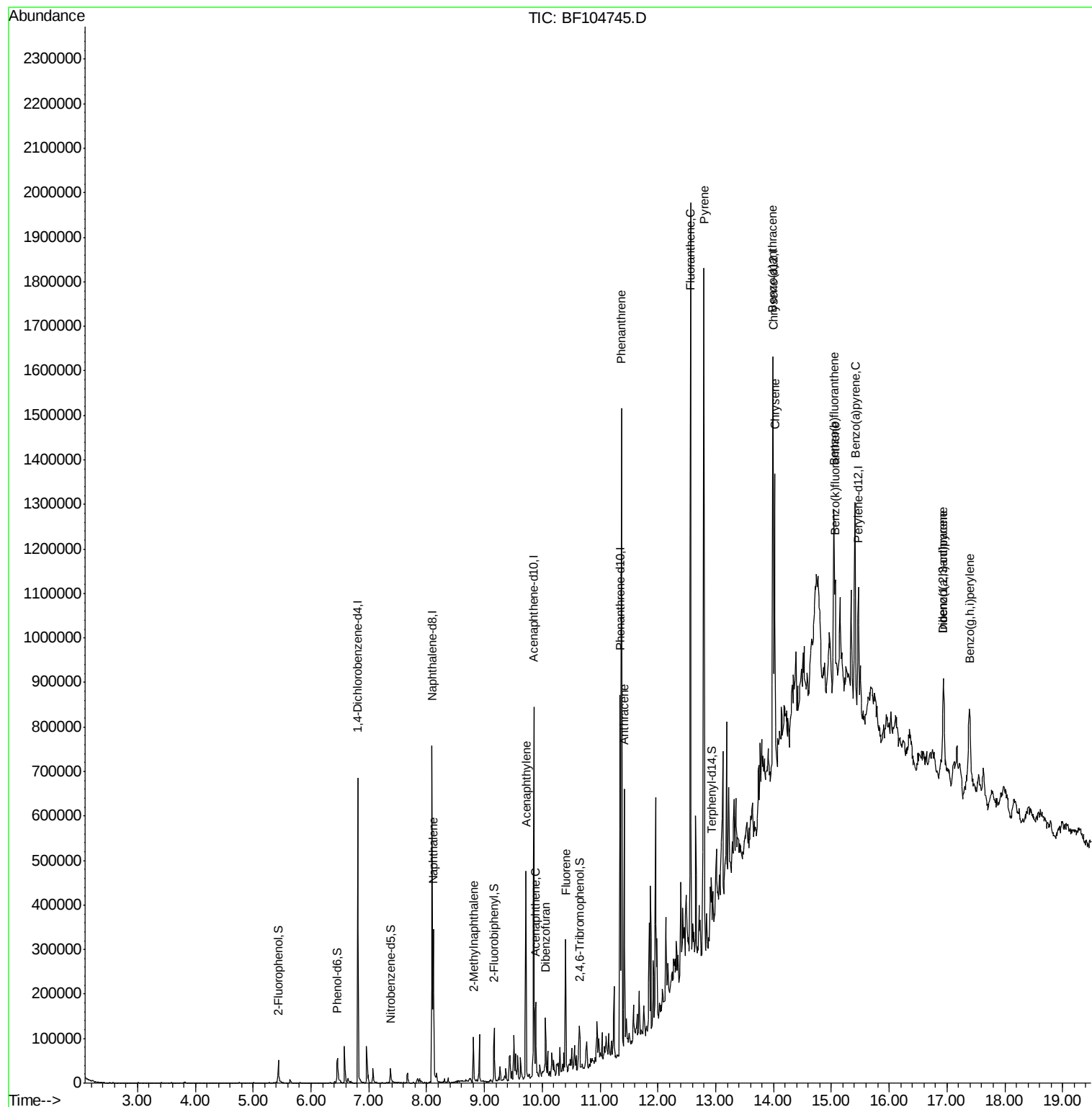
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
Data File : BF104745.D
Acq On : 24 Apr 2018 9:09
Operator : JU/SJ
Sample : J2497-04 5X
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

Manual Integrations
APPROVED

Sohil
4/24/2018 3:49:20 PM

Quant Time: Apr 24 12:11:47 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 23 15:38:25 2018
Response via : Initial Calibration





#1

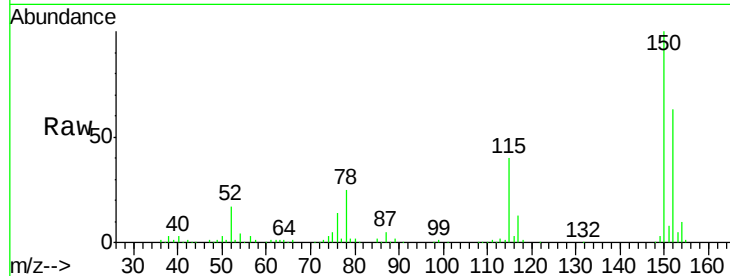
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.6	186.8
115	62.5	50.1	75.1

Manual Integrations
APPROVED

Sohil
4/24/2018 3:49:20 PM



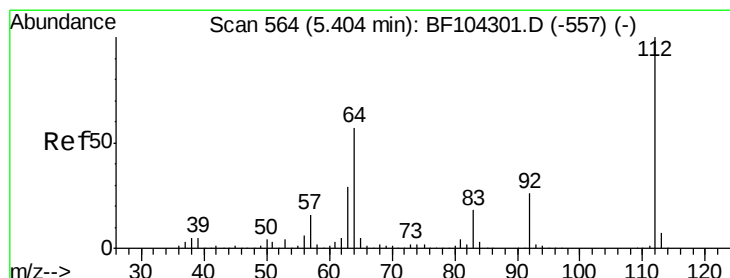
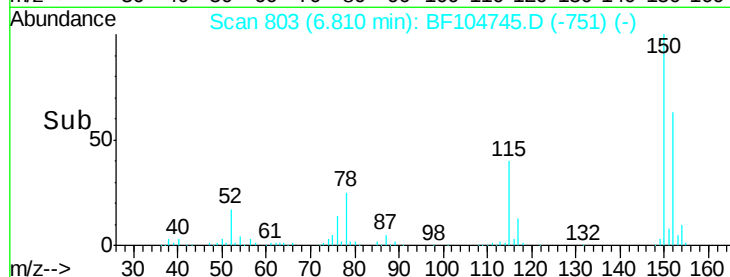
Abundance

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

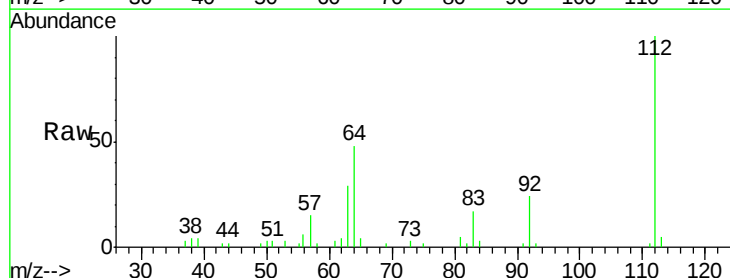
Time-->



#5

2-Fluorophenol
Concen: 3.815 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.1	47.9	71.9
63	29.0	23.7	35.5



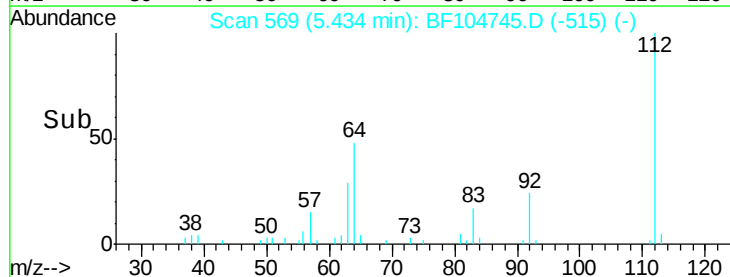
Abundance

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

Time-->





#7

Phenol-d6

Concen: 3.769 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.01 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Instrument :

BNA_F

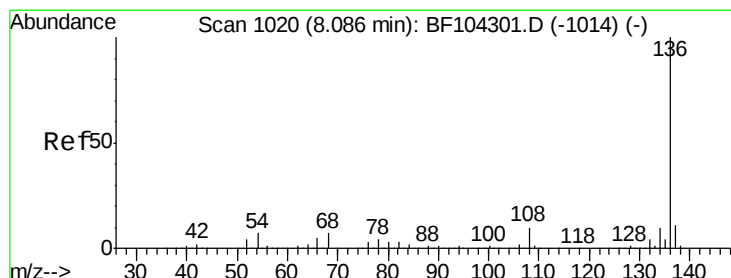
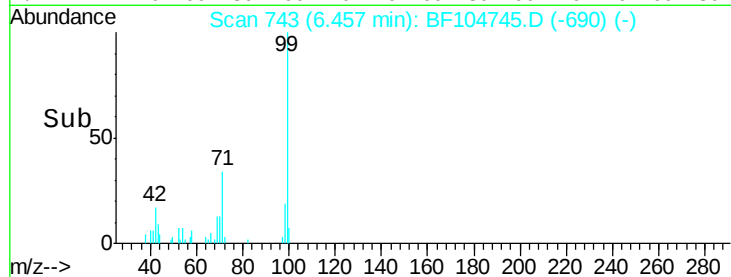
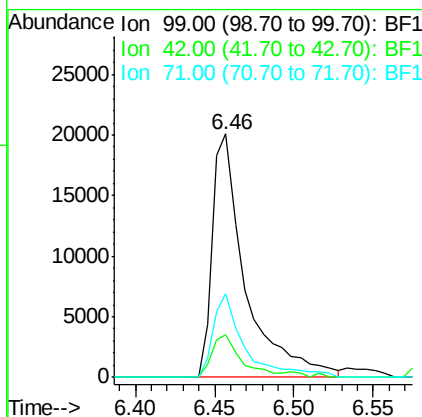
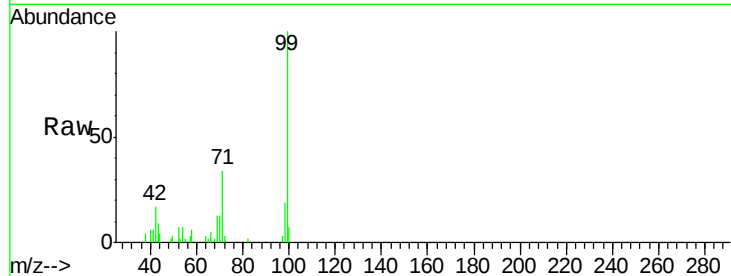
ClientSampleId :

A2-SB01-SE-2

Tot Ion:	99	Resp:	29310
Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.5	21.7
71	34.4	25.4	38.0

Manual Integrations
APPROVED

Sohil
4/24/2018 3:49:20 PM



#21

Naphthalene-d8

Concen: 20.000 ng

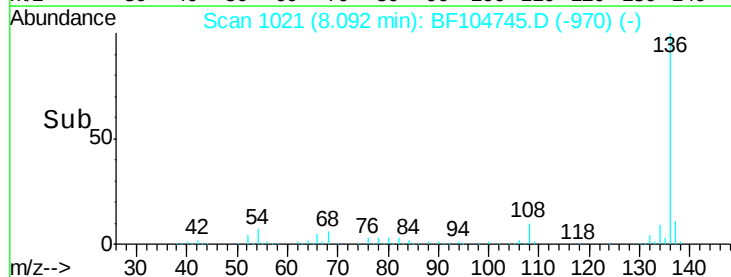
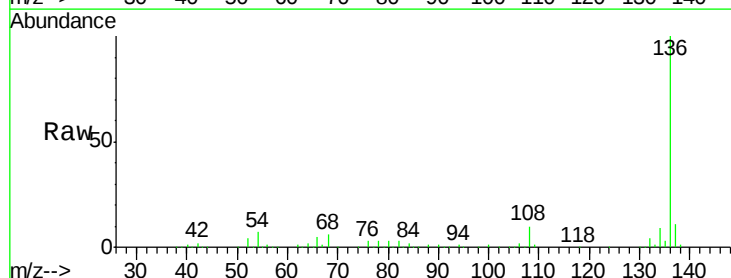
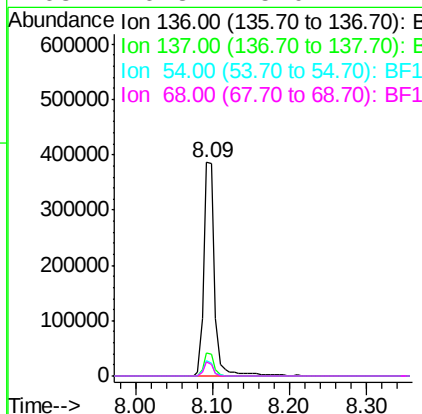
RT: 8.09 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Tgt Ion:	136	Resp:	381341
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.1	6.6	9.8
68	6.3	5.0	7.4





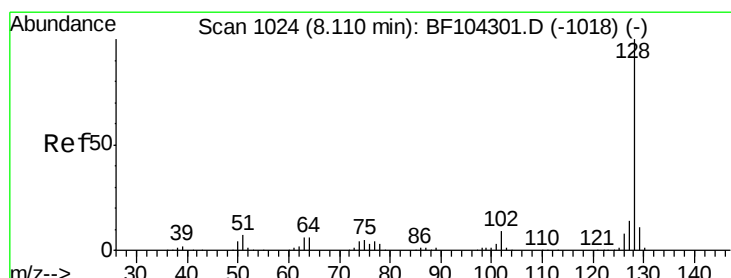
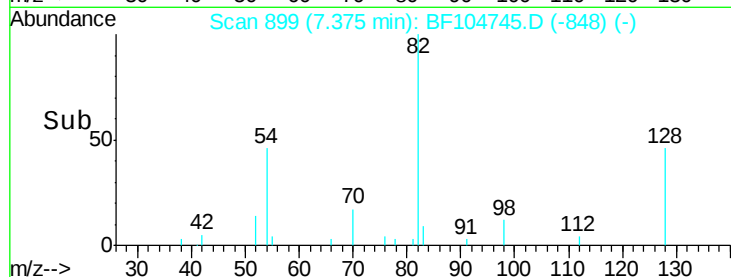
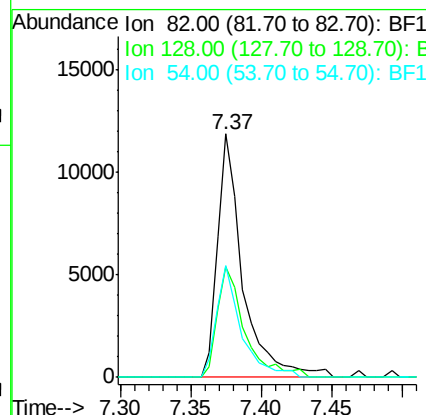
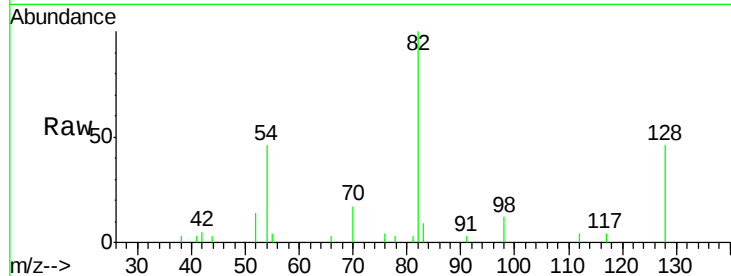
#23
 Nitrobenzene-d5
 Concen: 2.528 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-SE-2

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.5	36.1	54.1
54	46.0	41.4	62.2

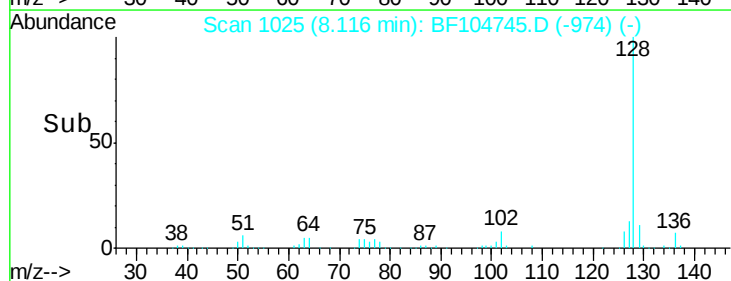
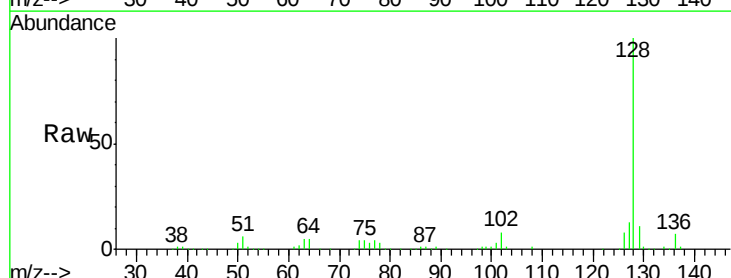
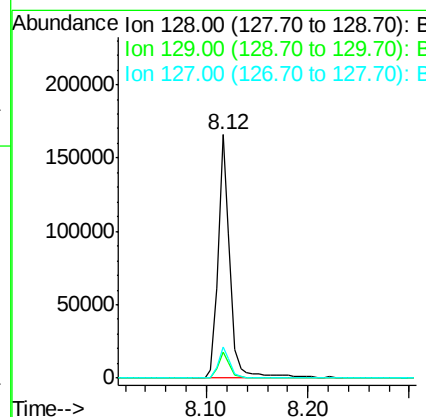
Manual Integrations
 APPROVED

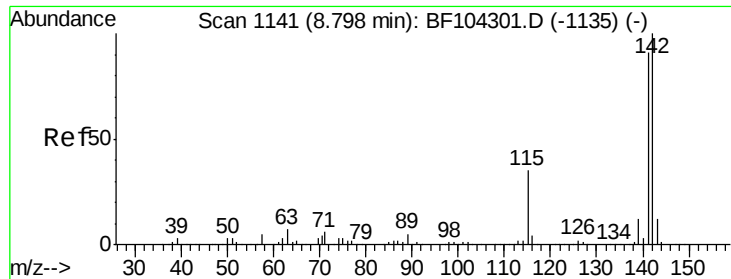
Sohil
 4/24/2018 3:49:20 PM



#31
 Naphthalene
 Concen: 7.148 ng
 RT: 8.12 min Scan# 1025
 Delta R.T. -0.00 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	12.7	10.9	16.3





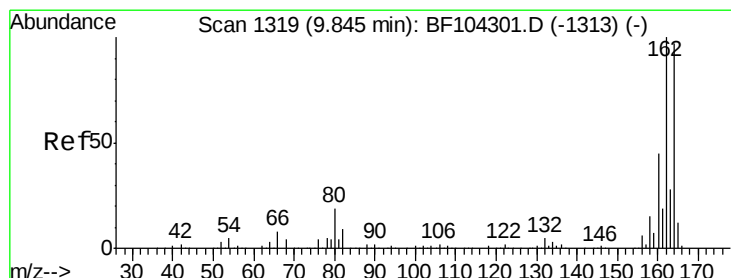
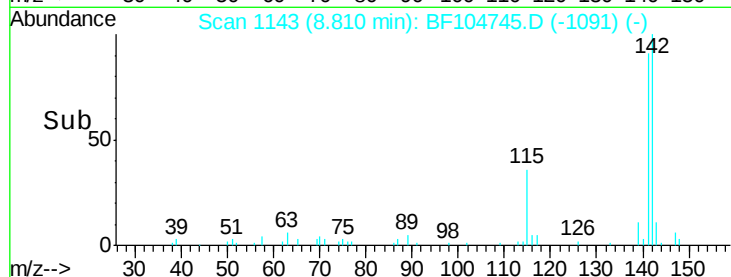
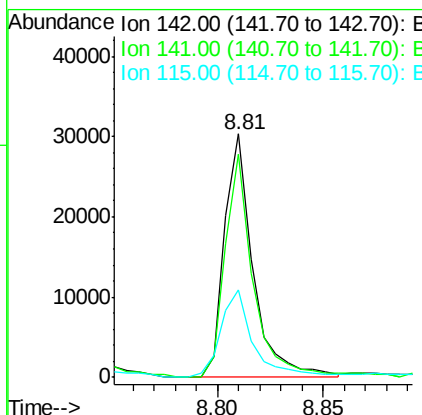
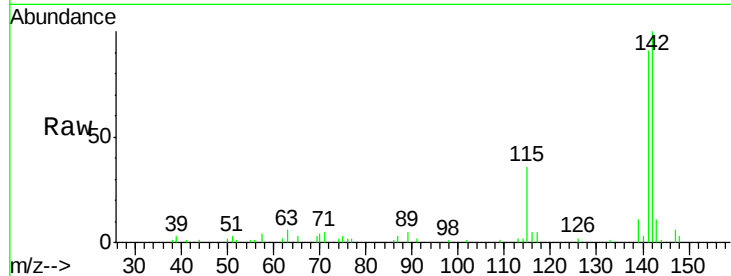
#37
2-Methylnaphthalene
Concen: 2.316 ng
RT: 8.81 min Scan# 1143
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.5	70.8	106.2
115	35.7	26.1	39.1

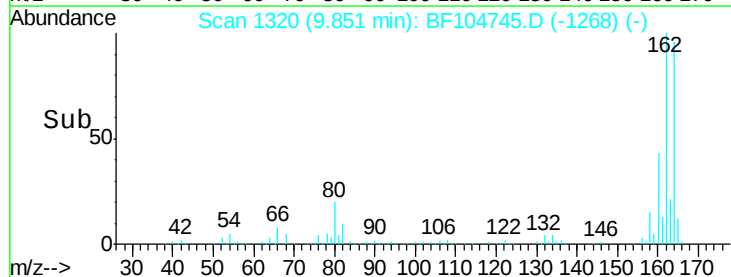
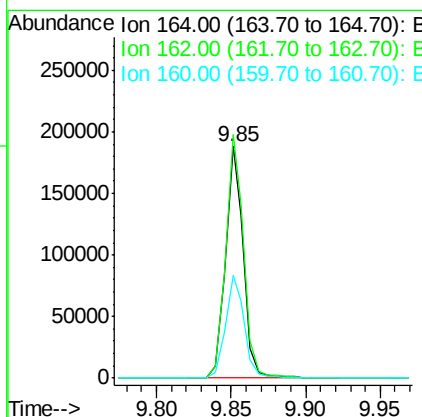
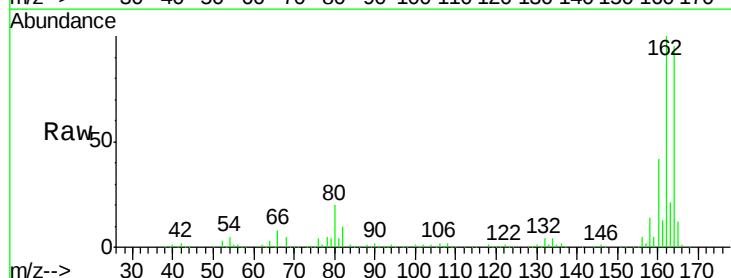
Manual Integrations
APPROVED

Sohil
4/24/2018 3:49:20 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.9	86.1	129.1
160	44.5	38.3	57.5





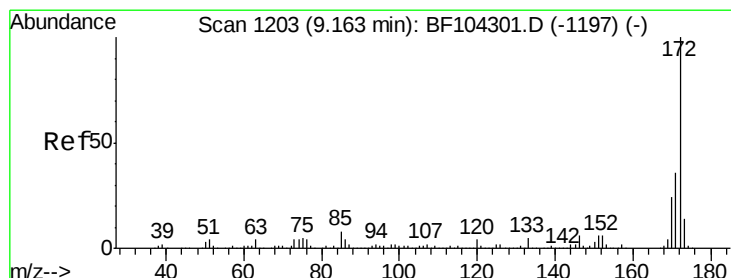
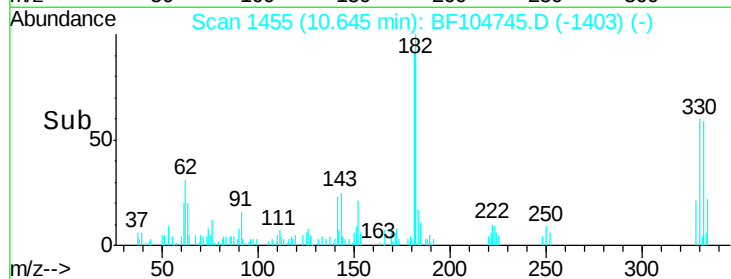
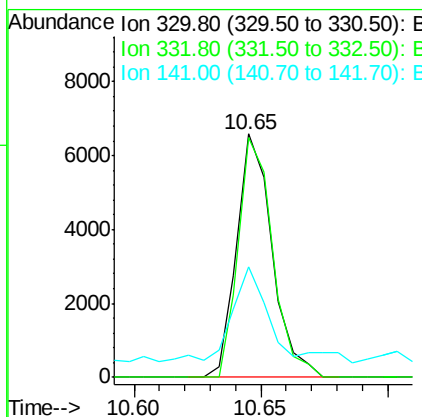
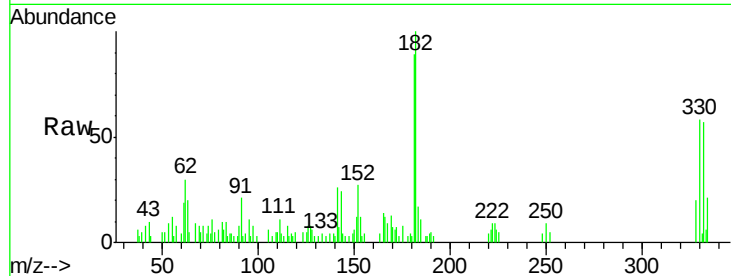
#41
 2,4,6-Tribromophenol
 Concen: 3.876 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-SE-2

Tot Ion	Ratio	Resp	Lower	Upper
330	100	6416		
332	95.1	77.0	115.6	
141	55.8	29.9	44.9	

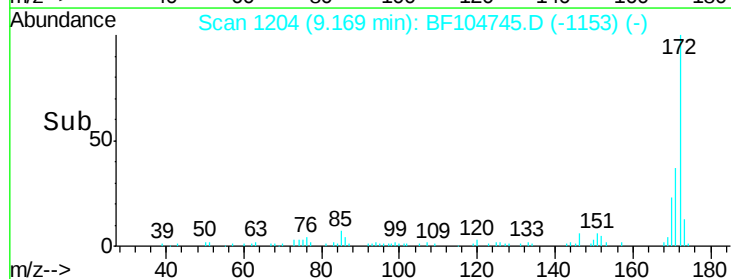
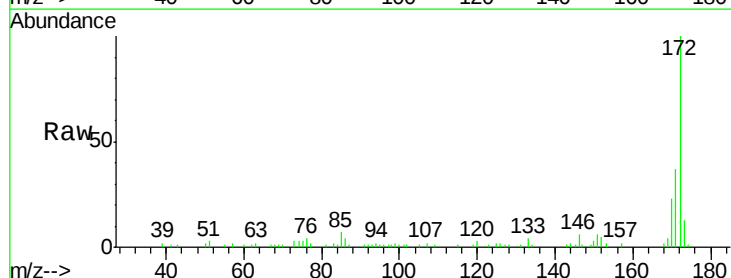
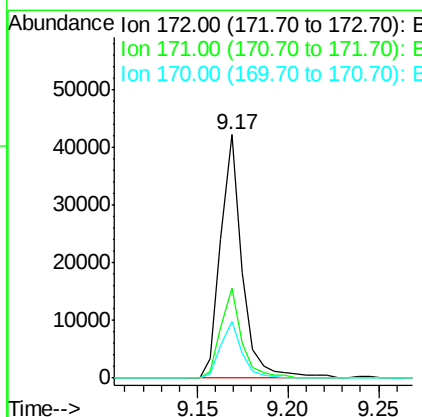
Manual Integrations
 APPROVED

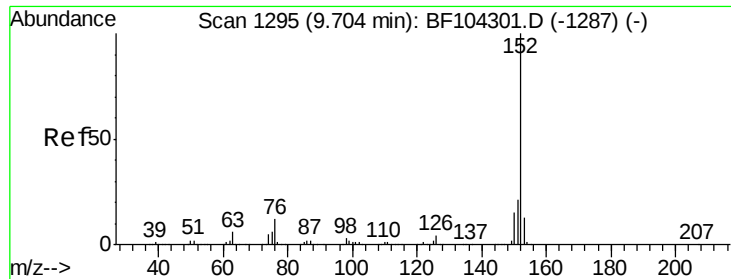
Sohil
 4/24/2018 3:49:20 PM



#44
 2-Fluorobiphenyl
 Concen: 3.468 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	35026		
171	37.0	29.7	44.5	
170	23.3	19.6	29.4	





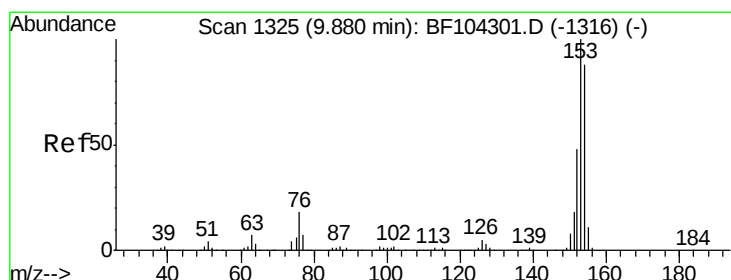
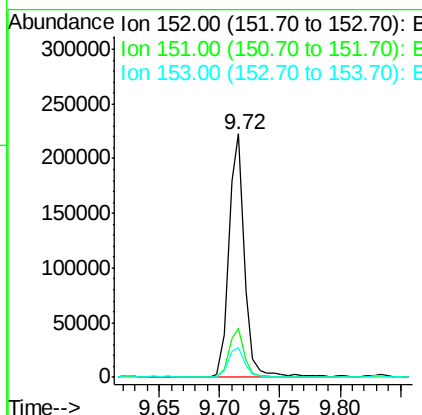
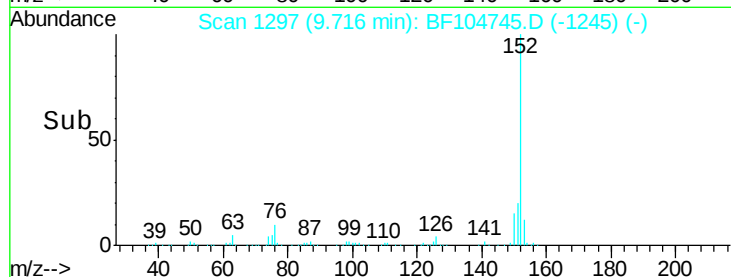
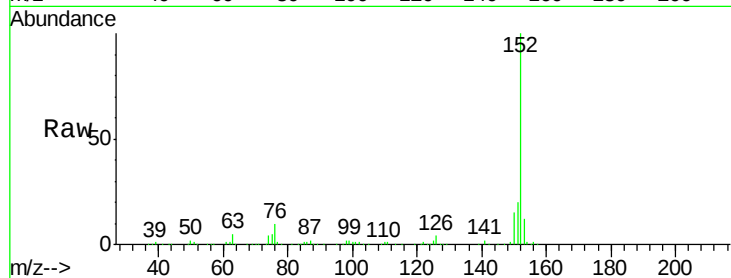
#48
Acenaphthylene
Concen: 11.934 ng
RT: 9.72 min Scan# 1297
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

Tot Ion	Ratio	Resp	Lower	Upper
152	100	198251		
151	20.2		16.3	24.5
153	12.5		10.7	16.1

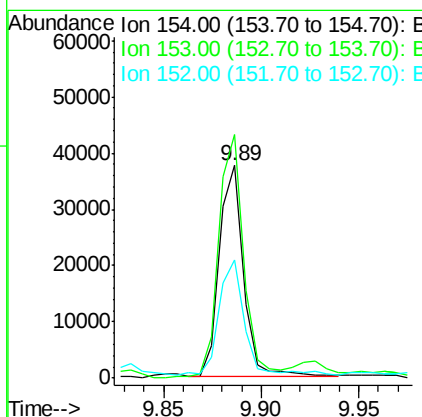
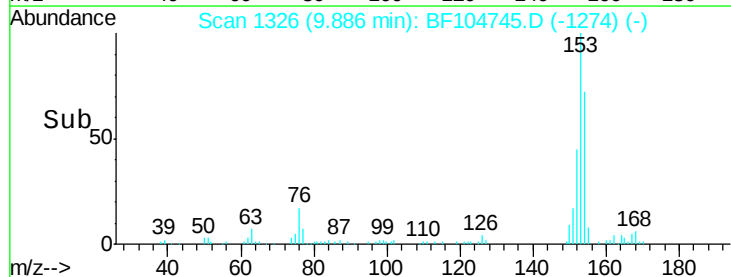
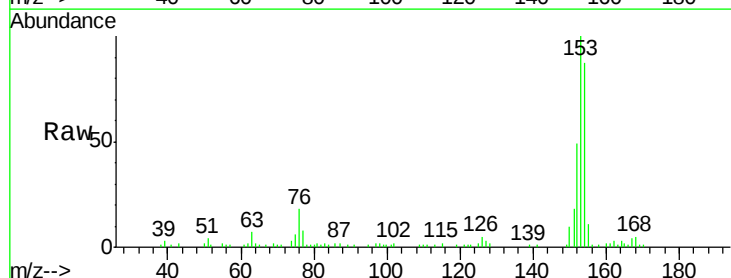
Manual Integrations
APPROVED

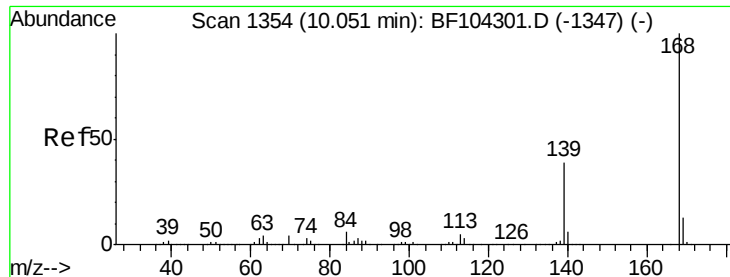
Sohil
4/24/2018 3:49:20 PM



#51
Acenaphthene
Concen: 3.167 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	32098		
153	114.6		91.2	136.8
152	55.7		43.8	65.8





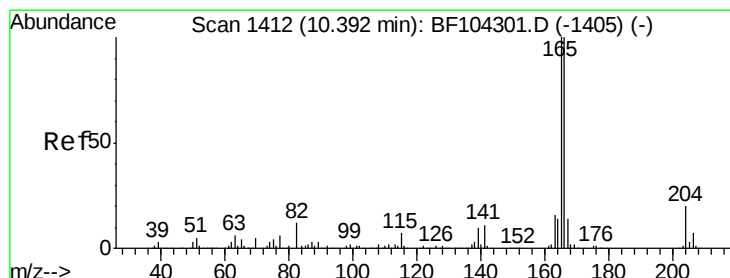
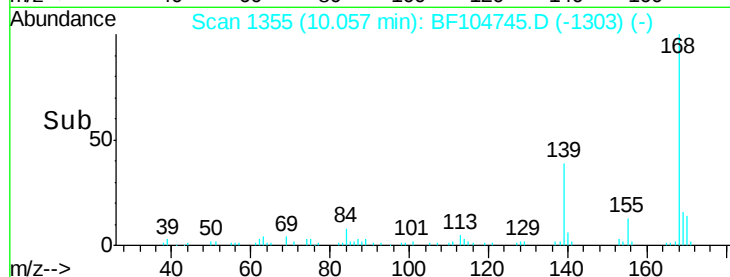
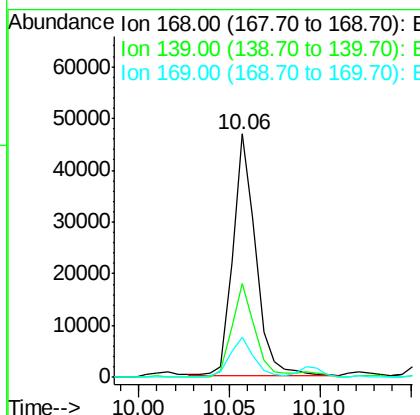
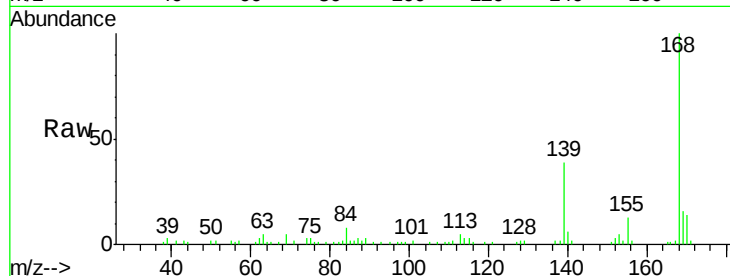
#54
Dibenzenofuran
Concen: 2.881 ng
RT: 10.06 min Scan# 1355
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.8	30.1	45.1
169	16.3	10.9	16.3

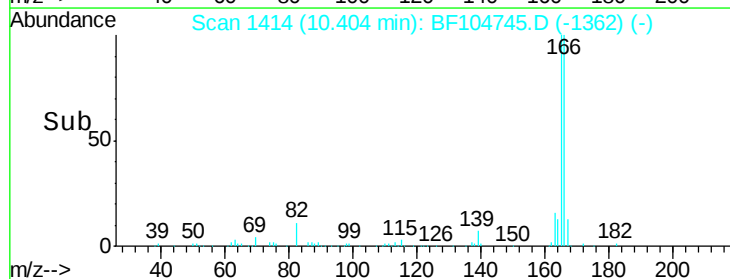
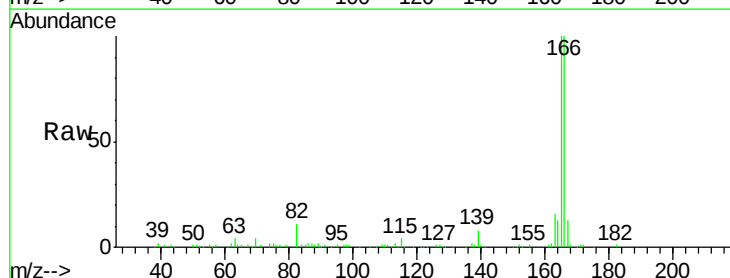
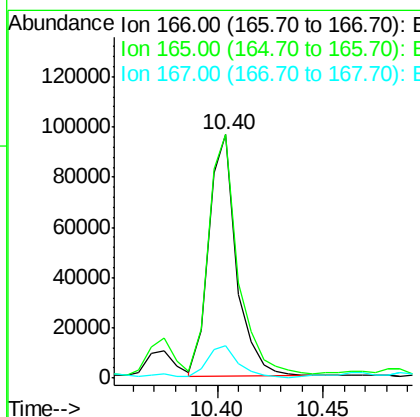
Manual Integrations
APPROVED

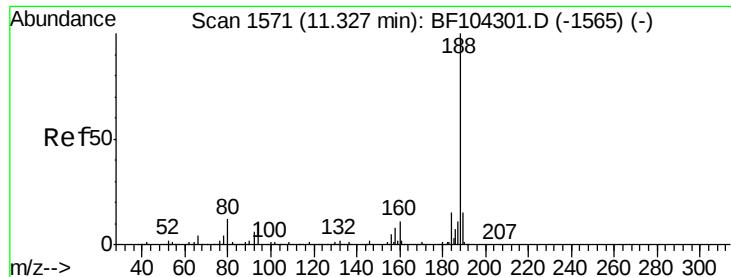
Sohil
4/24/2018 3:49:20 PM



#57
Fluorene
Concen: 8.561 ng
RT: 10.40 min Scan# 1414
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.8	119.8
167	13.4	10.6	16.0





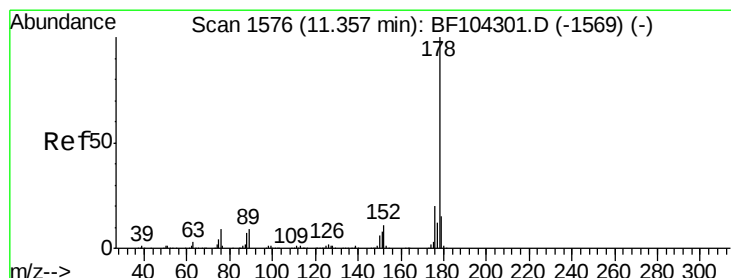
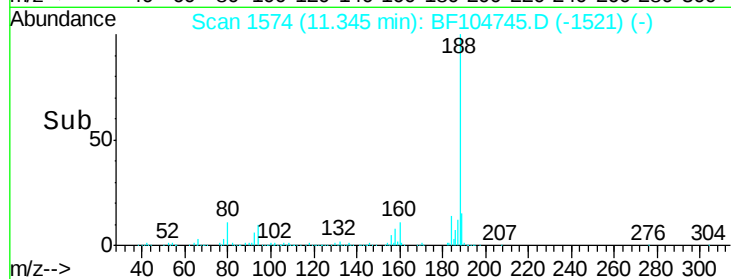
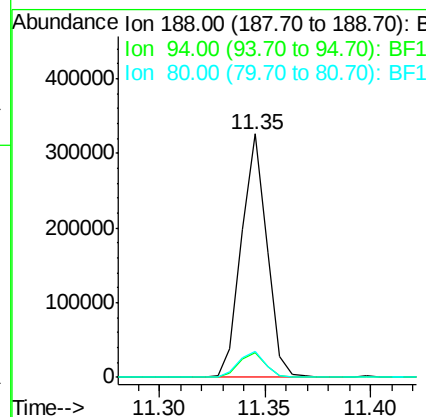
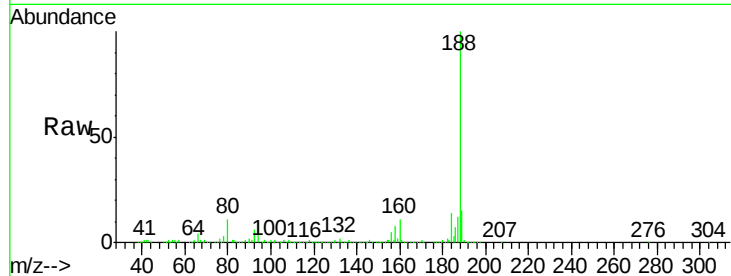
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1574
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.0	8.5	12.7
80	10.7	9.2	13.8

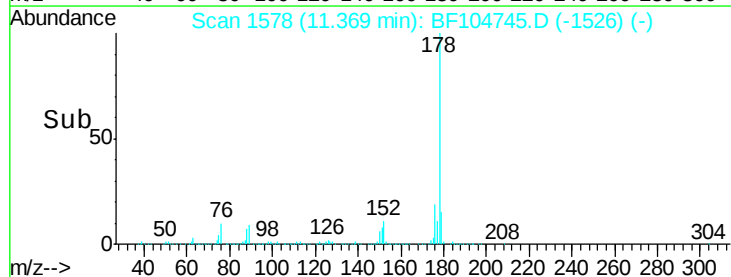
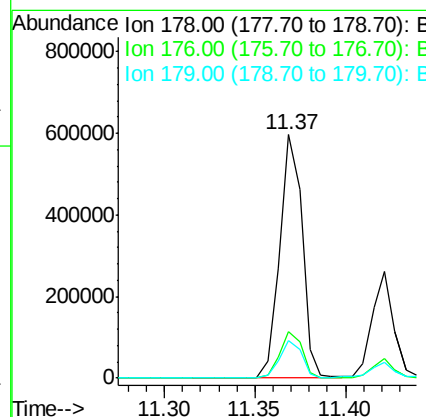
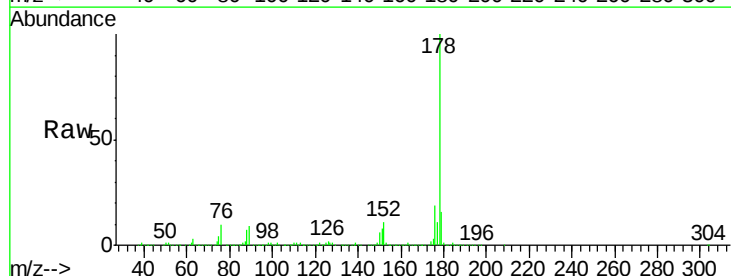
Manual Integrations
APPROVED

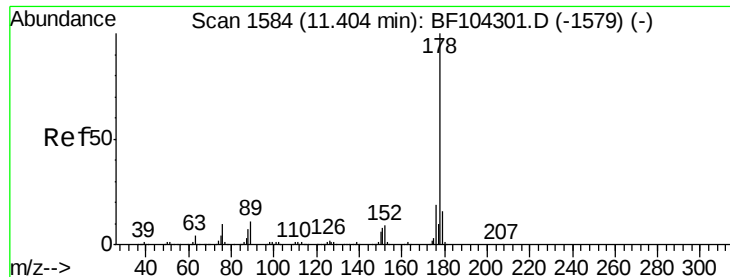
Sohil
4/24/2018 3:49:20 PM



#70
Phenanthrene
Concen: 34.042 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.7	13.0	19.6





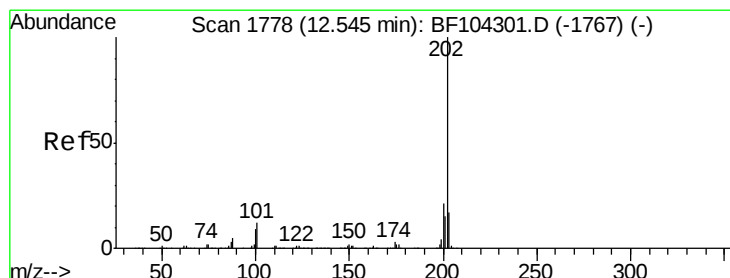
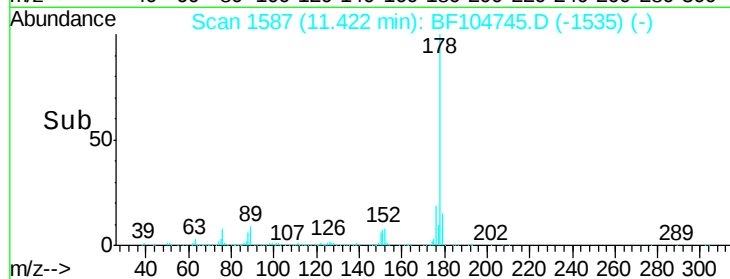
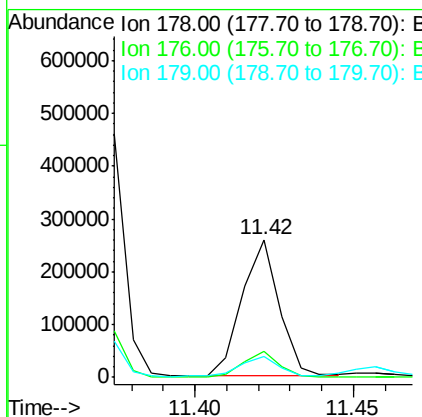
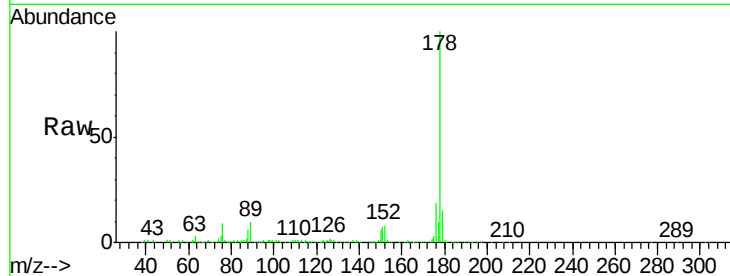
#71
 Anthracene
 Concen: 13.713 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-SE-2

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.1	12.6	19.0

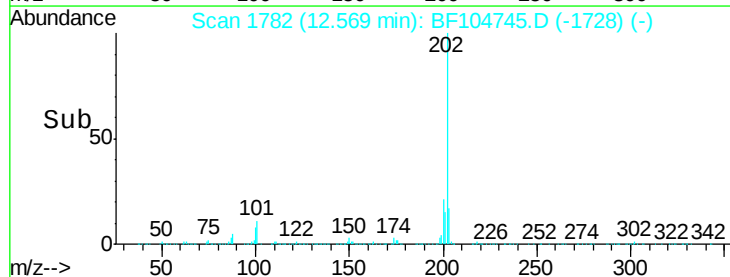
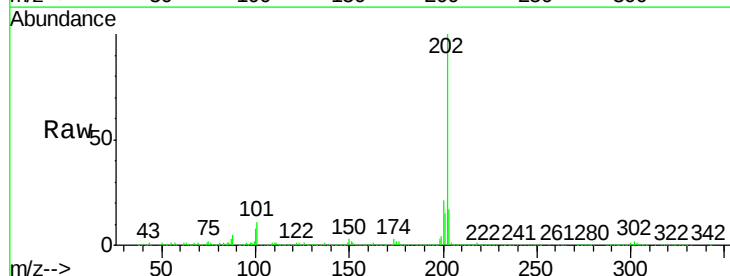
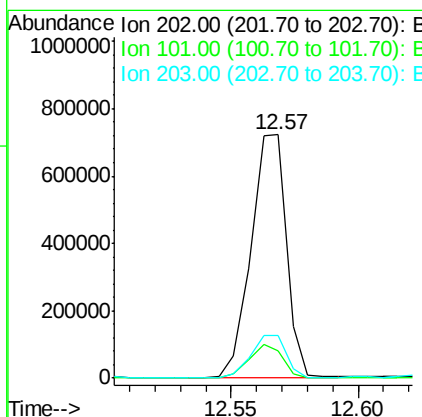
Manual Integrations
 APPROVED

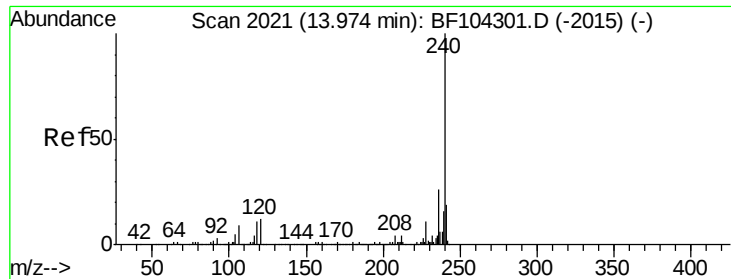
Sohil
 4/24/2018 3:49:20 PM



#74
 Fluoranthene
 Concen: 44.717 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. 0.02 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	34.1
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Instrument :

BNA_F

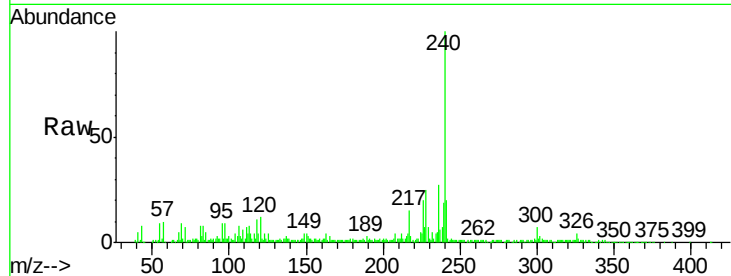
ClientSampleId :

A2-SB01-SE-2

Tot Ion:	240	Resp:	160922
Ion Ratio	Lower	Upper	
240	100		
120	11.9	9.5	14.3
236	26.5	20.7	31.1

Manual Integrations
APPROVED

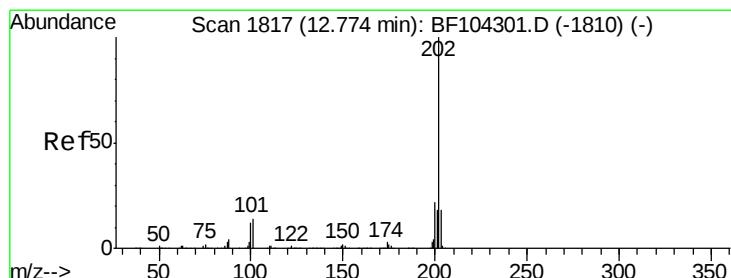
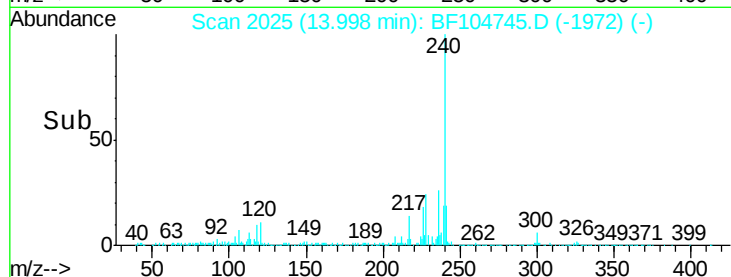
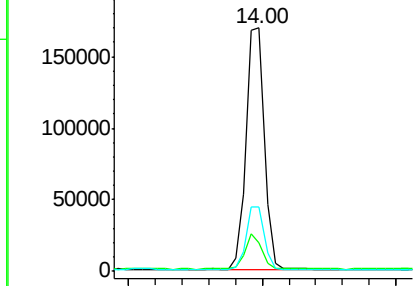
Sohil
4/24/2018 3:49:20 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 57.047 ng

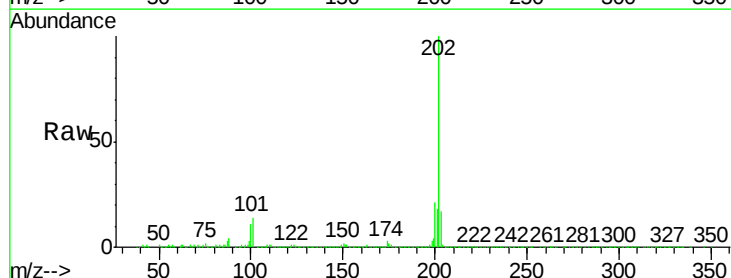
RT: 12.80 min Scan# 1821

Delta R.T. 0.02 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

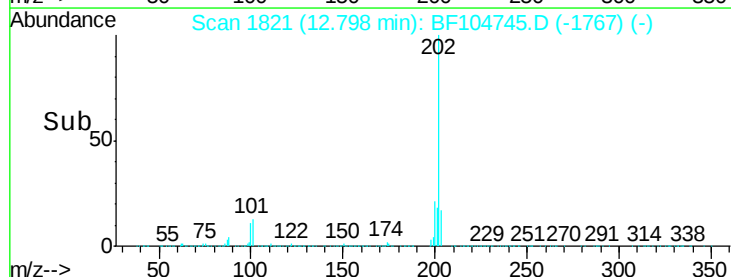
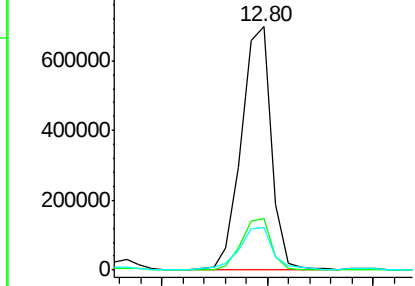
Tgt Ion:	202	Resp:	680467
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.4	26.2
203	17.3	14.3	21.5

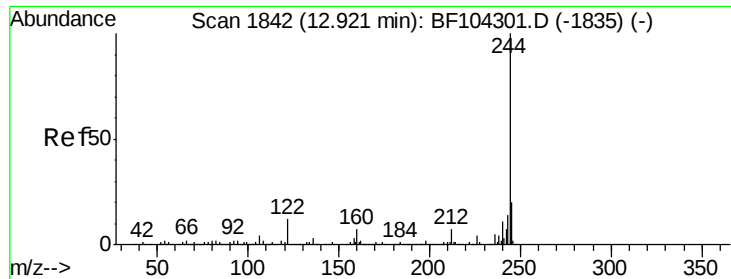


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





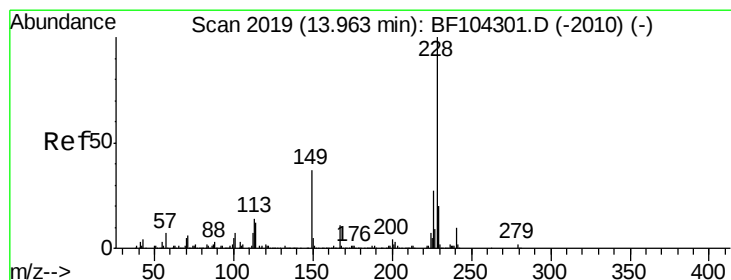
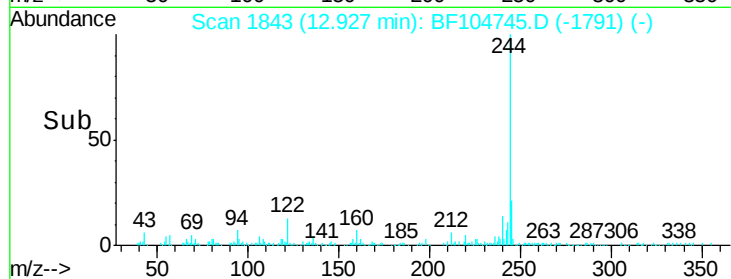
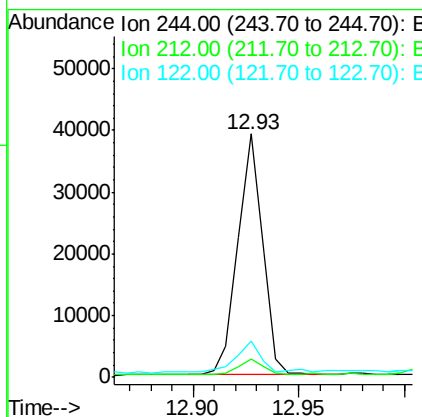
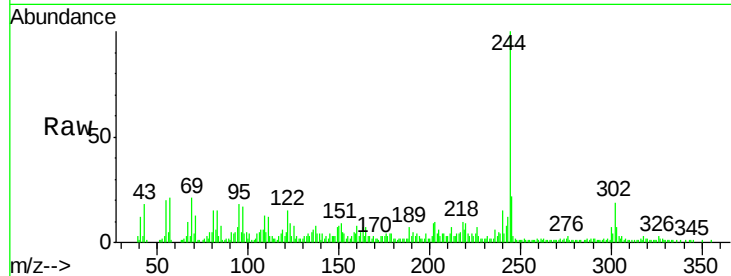
#78
 Terphenyl-d14
 Concen: 4.497 ng
 RT: 12.93 min Scan# 1843
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-SE-2

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.4	8.0
122	14.9	11.0	16.4

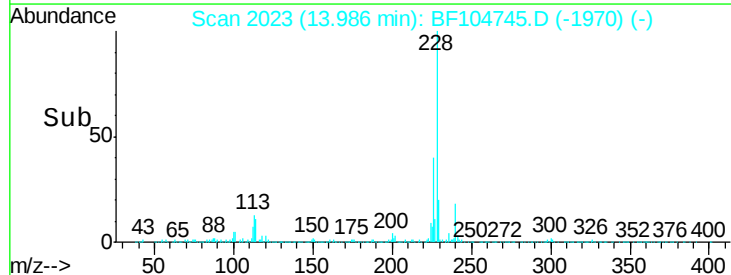
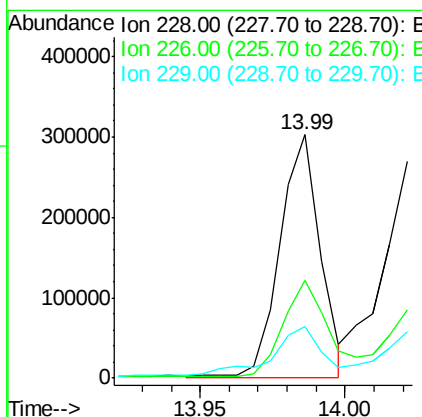
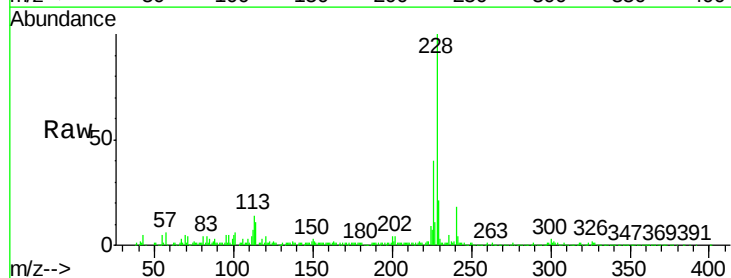
Manual Integrations
 APPROVED

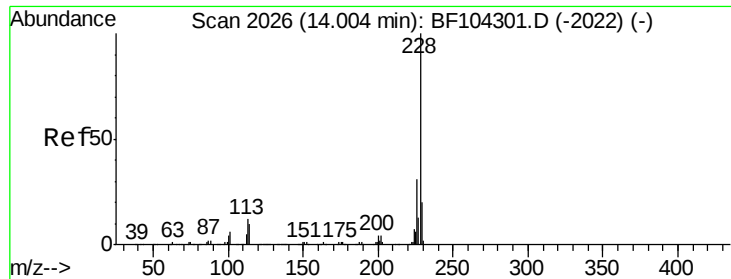
Sohil
 4/24/2018 3:49:20 PM



#80
 Benzo(a)anthracene
 Concen: 30.883 ng m
 RT: 13.99 min Scan# 2023
 Delta R.T. 0.01 min
 Lab File: BF104745.D
 Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	40.2	22.6	33.8#
229	20.9	15.8	23.6





#82

Chrysene

Concen: 26.837 ng m

RT: 14.02 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Instrument :

BNA_F

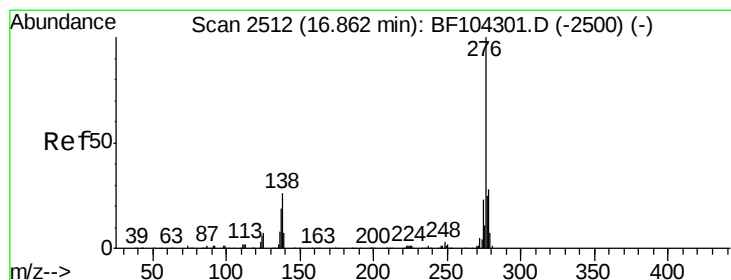
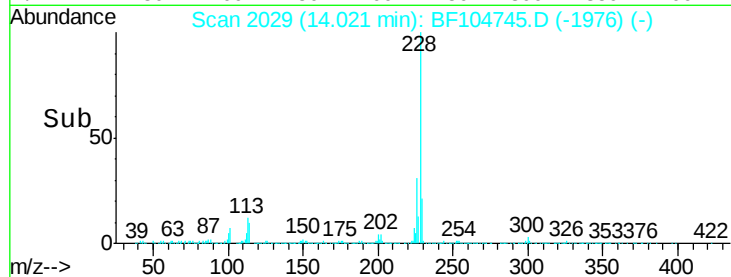
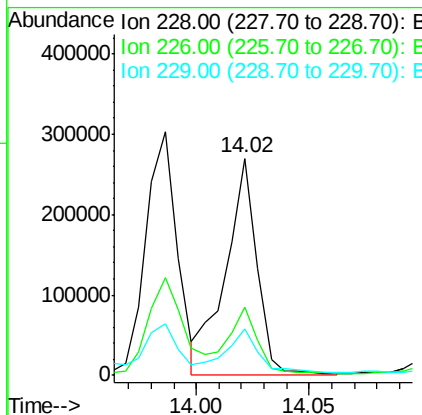
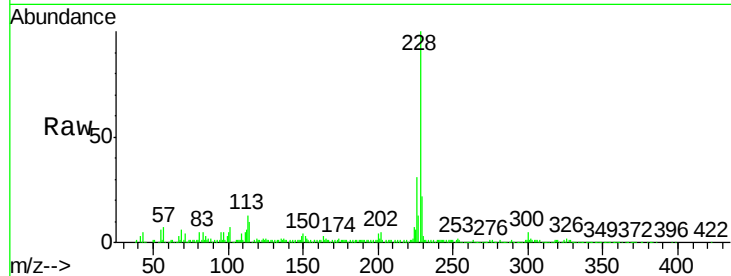
ClientSampleId :

A2-SB01-SE-2

Tot Ion:	228	Resp:	265005
Ion Ratio	Lower	Upper	
228	100		
226	31.3	25.0	37.6
229	21.6	16.2	24.4

Manual Integrations
APPROVED

Sohil
4/24/2018 3:49:20 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 15.641 ng m

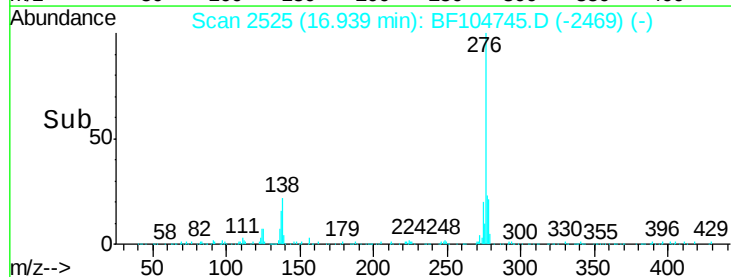
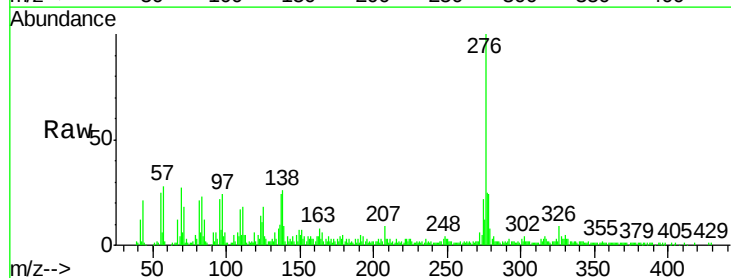
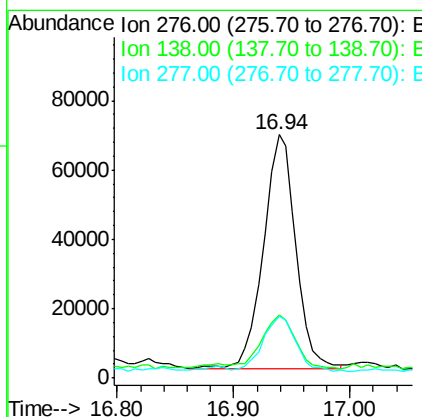
RT: 16.94 min Scan# 2525

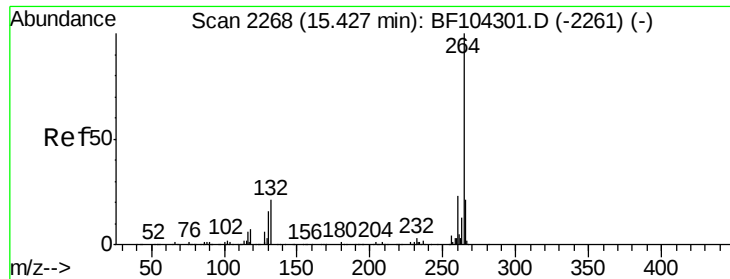
Delta R.T. 0.03 min

Lab File: BF104745.D

Acq: 24 Apr 2018 9:09

Tgt Ion:	276	Resp:	131207
Ion Ratio	Lower	Upper	
276	100		
138	5.9	25.0	37.6#
277	4.6	20.1	30.1#





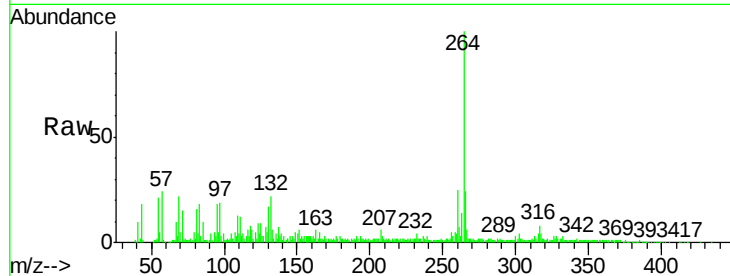
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

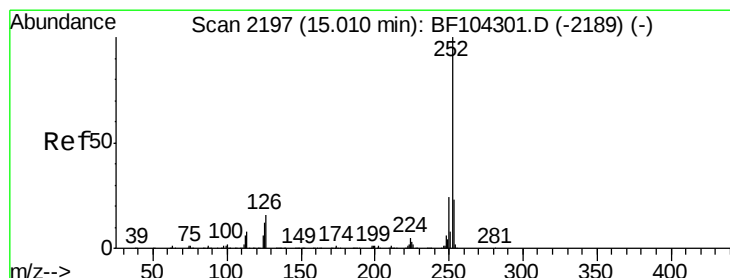
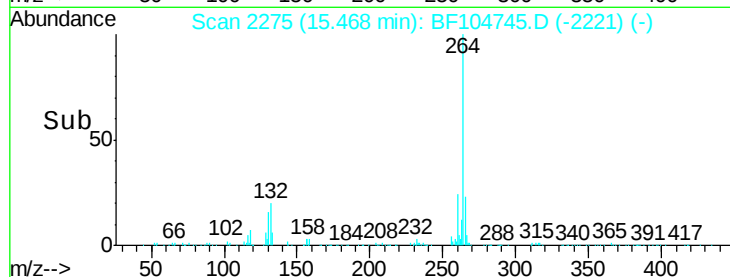
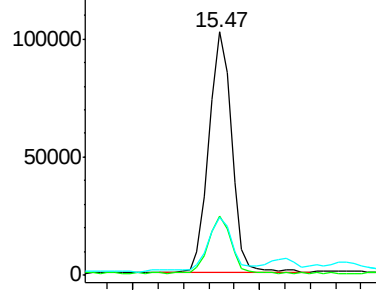
Tot Ion:	264	Resp:	127481
Ion Ratio	Lower	Upper	
264	100		
260	24.5	19.2	28.8
265	24.1	17.5	26.3

Manual Integrations
APPROVED

Sohil
4/24/2018 3:49:20 PM

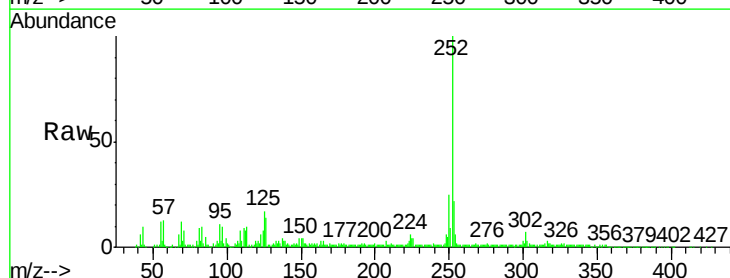


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

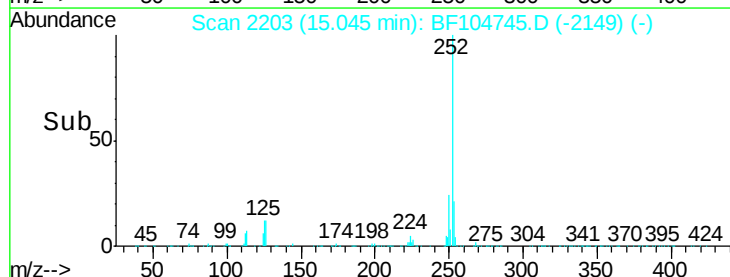
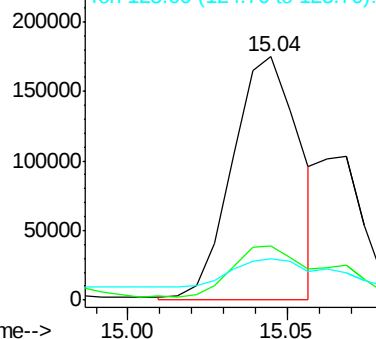


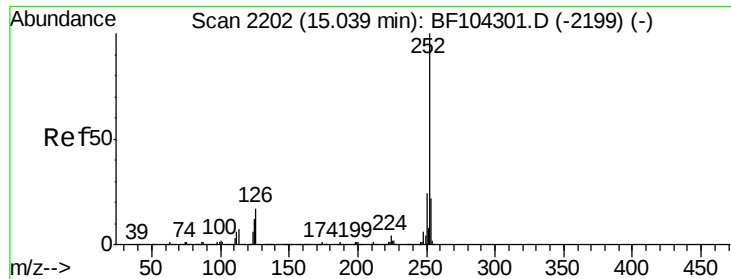
#87
Benzo(b)fluoranthene
Concen: 32.025 ng m
RT: 15.04 min Scan# 2203
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion:	252	Resp:	257845
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.0	25.6
125	17.2	9.0	13.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





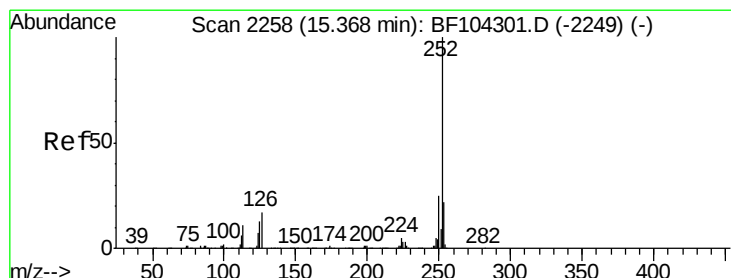
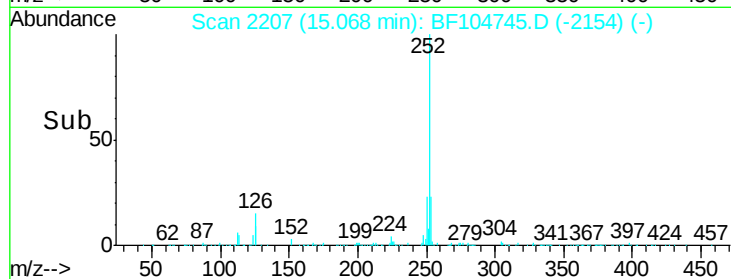
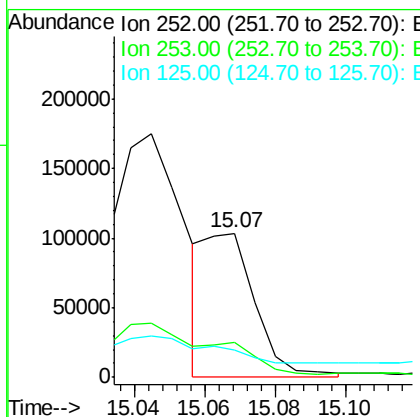
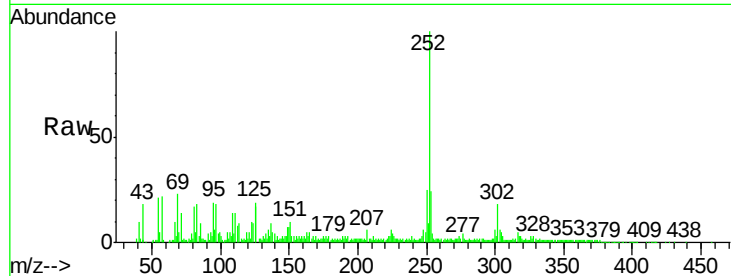
#88
Benzo(k)fluoranthene
Concen: 13.208 ng m
RT: 15.07 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.9	26.9
125	19.1	10.2	15.2

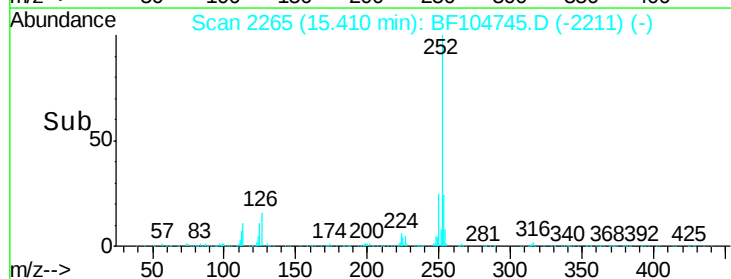
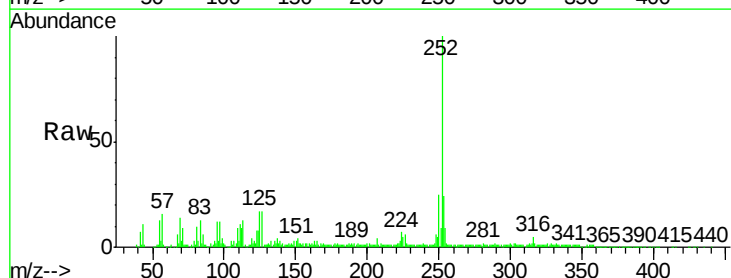
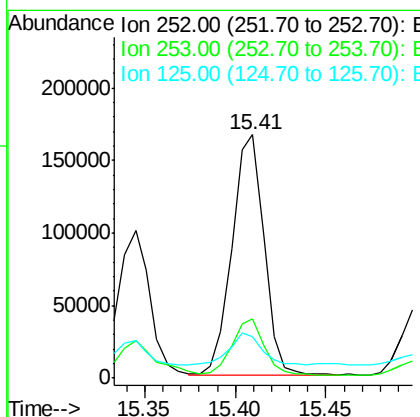
Manual Integrations
APPROVED

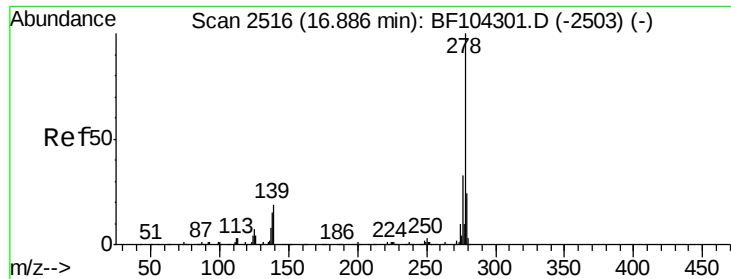
Sohil
4/24/2018 3:49:20 PM



#89
Benzo(a)pyrene
Concen: 28.341 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.1	25.7
125	17.2	9.8	14.6





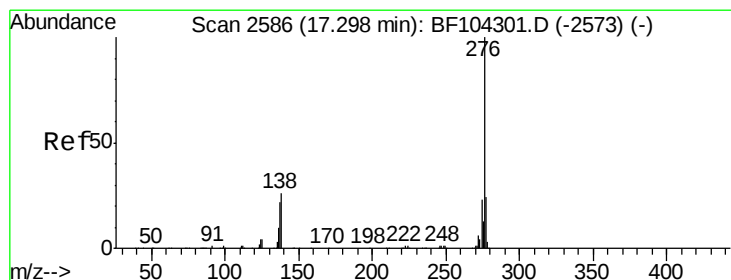
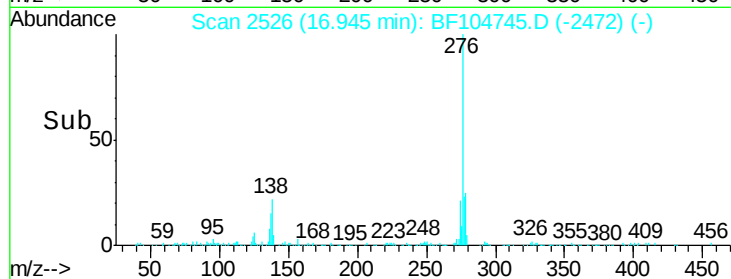
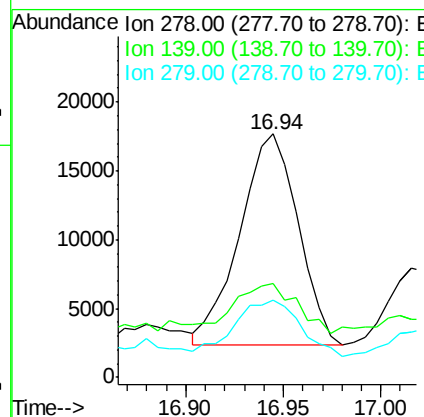
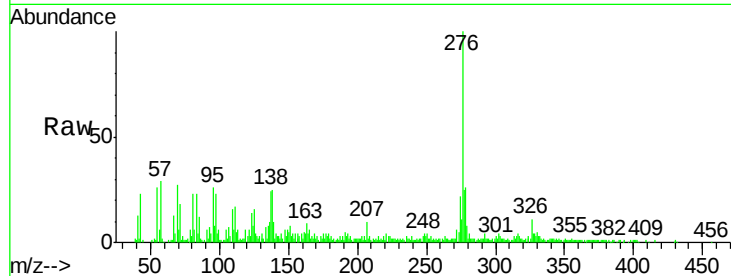
#90
Dibenzo(a,h)anthracene
Concen: 5.336 ng
RT: 16.94 min Scan# 2526
Delta R.T. 0.02 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Instrument :
BNA_F
ClientSampleId :
A2-SB01-SE-2

Tot Ion	Ratio	Lower	Upper
278	100		
139	38.5	15.9	23.9#
279	31.8	19.0	28.4#

Manual Integrations
APPROVED

Sohil
4/24/2018 3:49:20 PM



#91
Benzo(g,h,i)perylene
Concen: 27.517 ng
RT: 17.39 min Scan# 2602
Delta R.T. 0.04 min
Lab File: BF104745.D
Acq: 24 Apr 2018 9:09

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.1	17.9	26.9
138	25.3	21.8	32.8

