

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102517\
 Data File : BF099815.D
 Acq On : 25 Oct 2017 16:05
 Operator : SJ/JU
 Sample : I6064-01 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT-4248-COMP

Manual Integrations
 APPROVED

Sohil
 10/27/2017 8:58:53 AM

Quant Time: Oct 25 17:19:11 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 25 17:02:52 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	86663	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	353898	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	157455	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	272381	20.00	ng	0.00
75) Chrysene-d12	13.99	240	163016	20.00	ng	0.00
86) Perylene-d12	15.46	264	171127	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	106123	19.22	ng	0.00
7) Phenol-d6	6.43	99	132138	20.19	ng	0.00
23) Nitrobenzene-d5	7.36	82	72025	13.10	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	25960	18.09	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	167025	16.37	ng	0.00
78) Terphenyl-d14	12.92	244	128985	17.29	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.10	128	347933	20.367	ng	99
37) 2-Methylnaphthalene	8.79	142	154994	13.539	ng	98
45) 1,1'-Biphenyl	9.26	154	41191	2.892	ng	95
48) Acenaphthylene	9.70	152	58189	3.652	ng	98
51) Acenaphthene	9.87	154	169476	17.408	ng	99
54) Dibenzofuran	10.05	168	208471	15.170	ng	96
57) Fluorene	10.39	166	342204	30.076	ng	99
70) Phenanthrene	11.37	178	1727836	112.403	ng	99
71) Anthracene	11.41	178	507100	32.500	ng	99
72) Carbazole	11.57	167	281512	19.186	ng	99
74) Fluoranthene	12.56	202	1438787	90.066	ng	97
77) Pyrene	12.79	202	1246127	100.530	ng	99
80) Benzo(a)anthracene	13.97	228	512700	49.612	ng	99
82) Chrysene	14.02	228	467386	48.108	ng	98
85) Indeno(1,2,3-cd)pyrene	16.94	276	216009	24.219	ng	98
87) Benzo(b)fluoranthene	15.03	252	574292m	53.146	ng	
88) Benzo(k)fluoranthene	15.06	252	156623m	15.371	ng	
89) Benzo(a)pyrene	15.40	252	409305	42.167	ng	# 94
90) Dibenzo(a,h)anthracene	16.93	278	56303m	6.528	ng	
91) Benzo(a,h,i)perylene	17.39	276	203169	24.077	ng	94

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

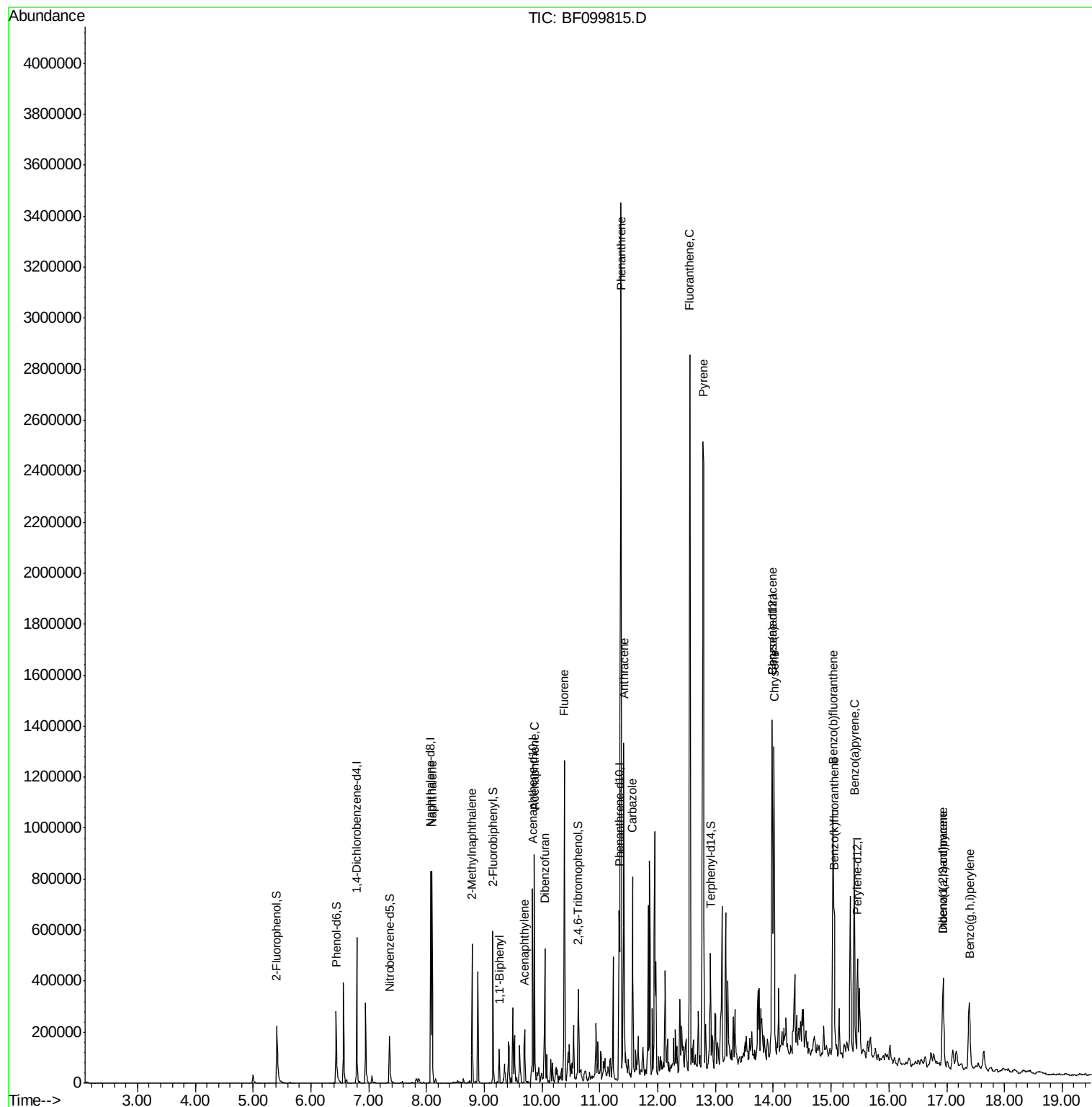
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102517\
Data File : BF099815.D
Acq On : 25 Oct 2017 16:05
Operator : SJ/JU
Sample : I6064-01 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

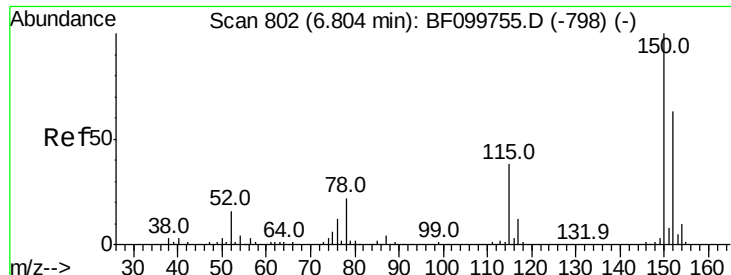
Instrument :
BNA_F
ClientSampleId :
RT-4248-COMP

Manual Integrations
APPROVED

Sohil
10/27/2017 8:58:53 AM

Quant Time: Oct 25 17:19:11 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 25 17:02:52 2017
Response via : Initial Calibration





#1

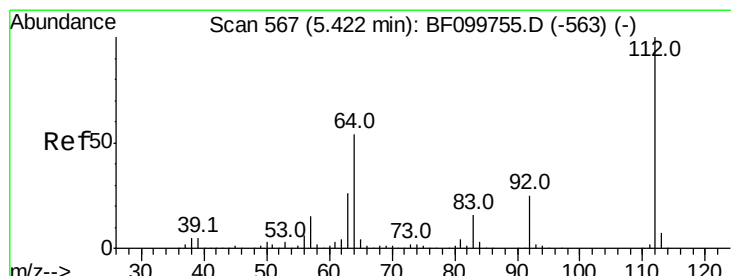
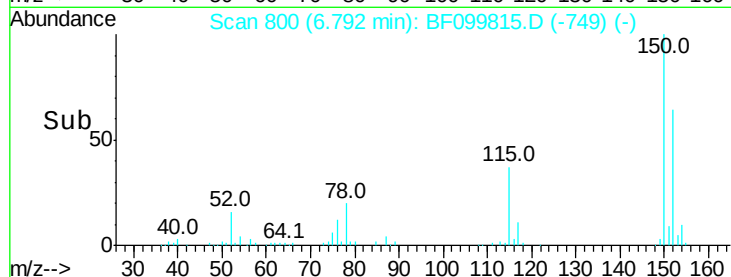
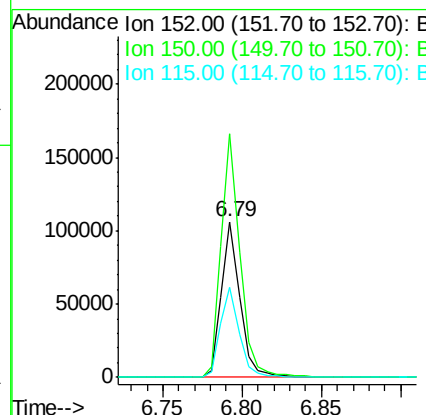
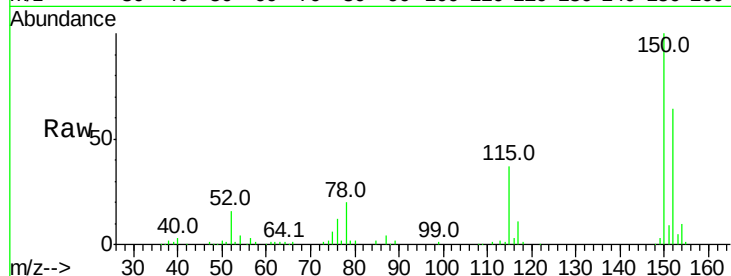
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.00 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Instrument :
BNA_F
ClientSampleId :
RT-4248-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	124.6	186.8
115	57.7	50.1	75.1

Manual Integrations
APPROVED

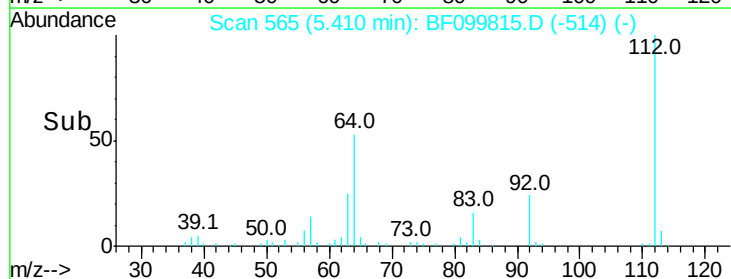
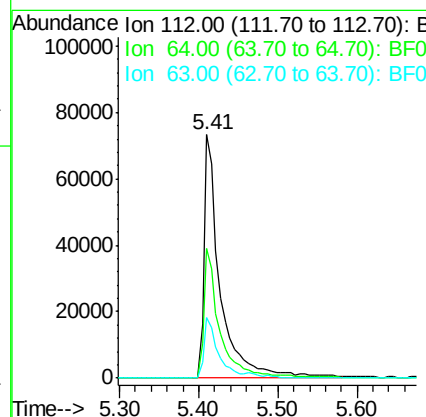
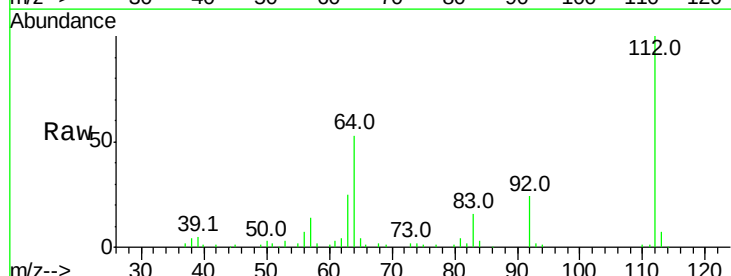
Sohil
10/27/2017 8:58:53 AM

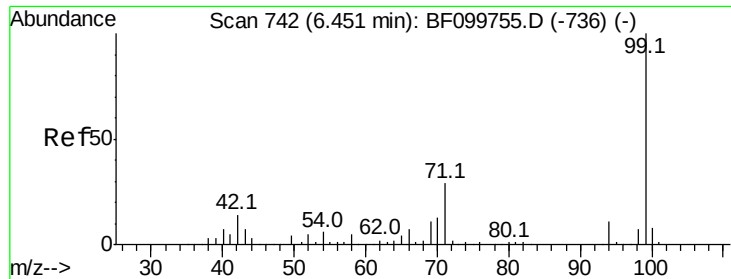


#5

2-Fluorophenol
Concen: 19.225 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.00 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	47.9	71.9
63	24.9	23.7	35.5





#7

Phenol-d6

Concen: 20.188 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Instrument :

BNA_F

ClientSampled :

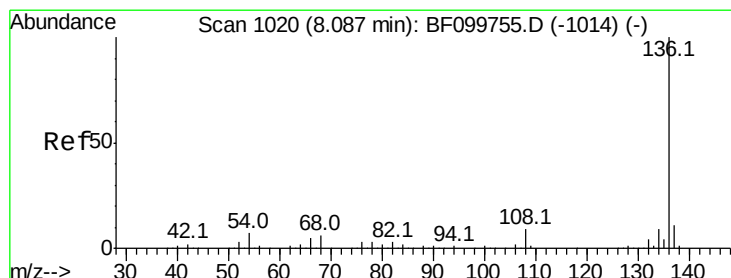
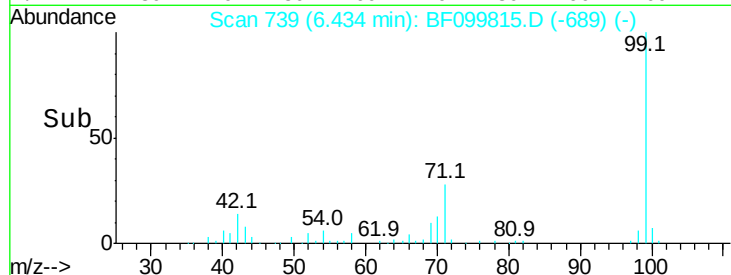
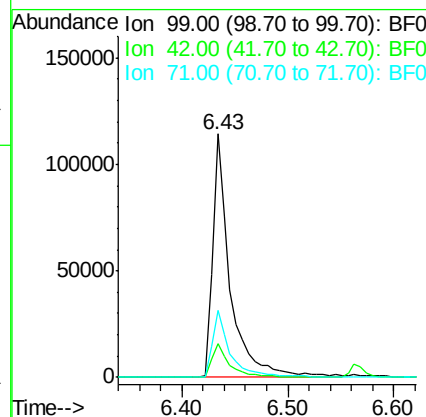
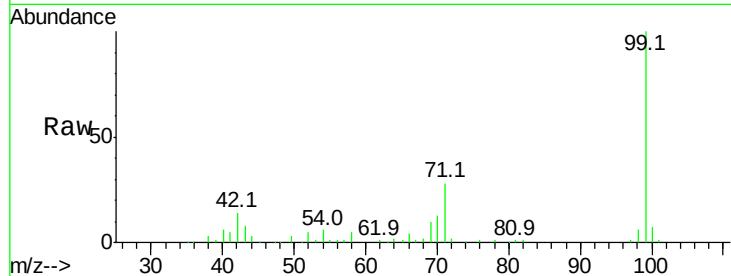
RT-4248-COMP

Tot Ion: 99 Resp: 132138

Ion	Ratio	Lower	Upper
99	100		
42	13.6	14.5	21.7#
71	27.8	25.4	38.0

Manual Integrations
APPROVED

Sohil
10/27/2017 8:58:53 AM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

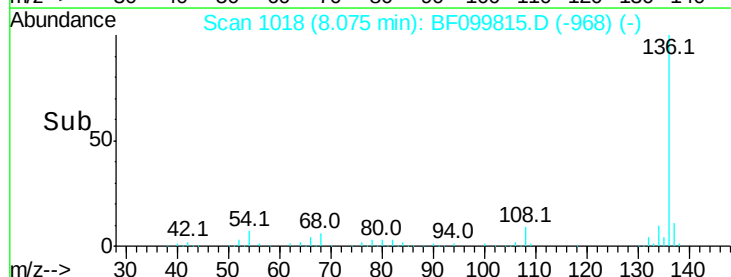
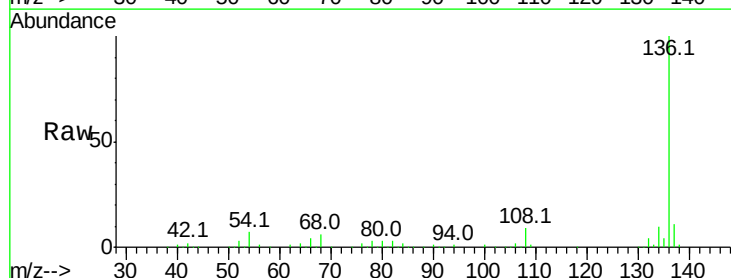
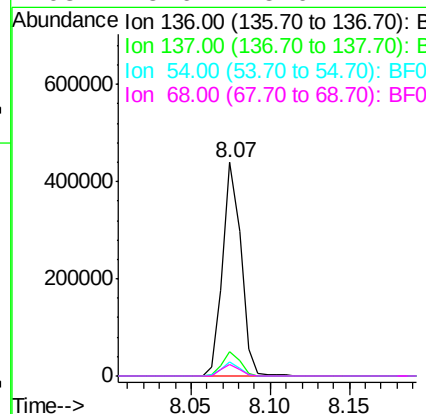
Delta R.T. -0.01 min

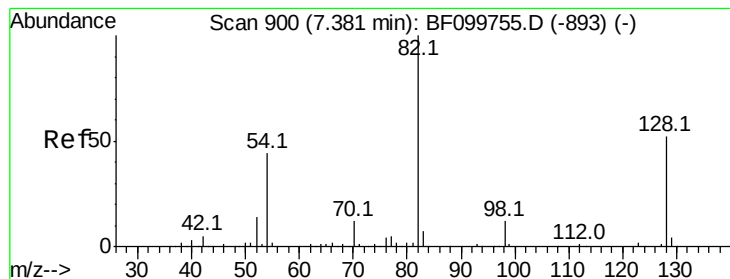
Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Tgt Ion: 136 Resp: 353898

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	6.8	6.6	9.8
68	5.6	5.0	7.4





#23

Nitrobenzene-d5

Concen: 13.103 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.01 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Instrument :

BNA_F

ClientSampleId :

RT-4248-COMP

Tot Ion: 82 Resp: 72025

Ion Ratio Lower Upper

82 100

128 51.5 36.1 54.1

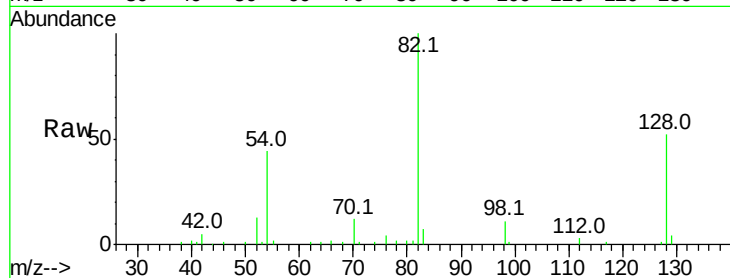
54 43.6 41.4 62.2

Manual Integrations

APPROVED

Sohil

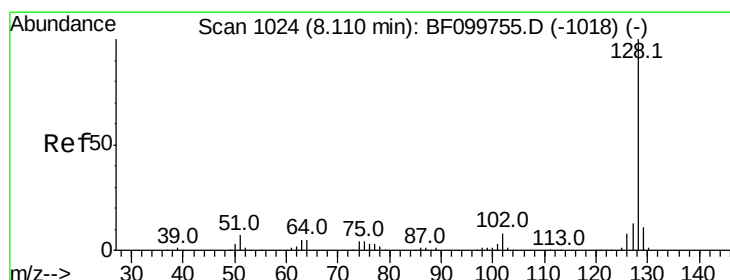
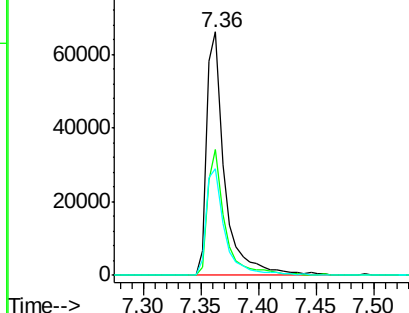
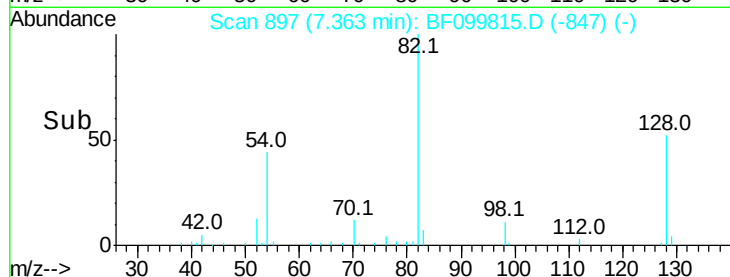
10/27/2017 8:58:53 AM



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 20.367 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.00 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

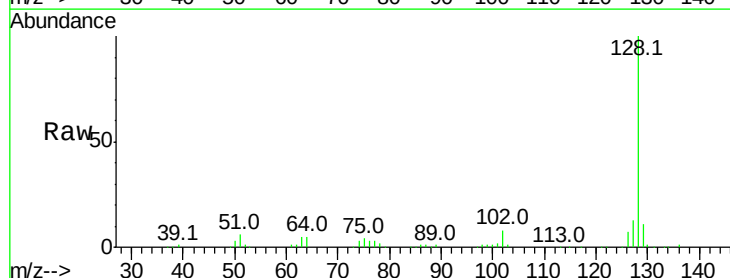
Tgt Ion:128 Resp: 347933

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

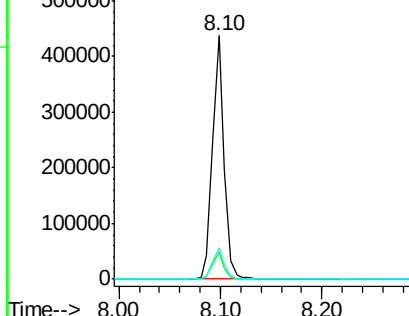
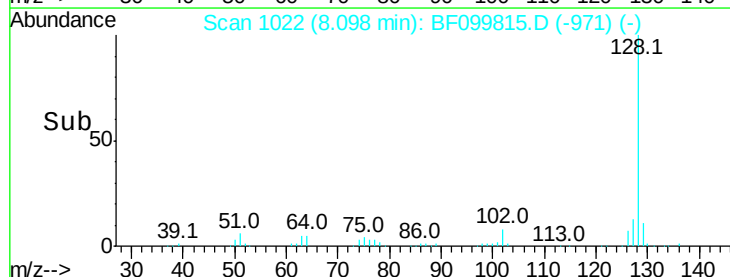
127 12.9 10.9 16.3

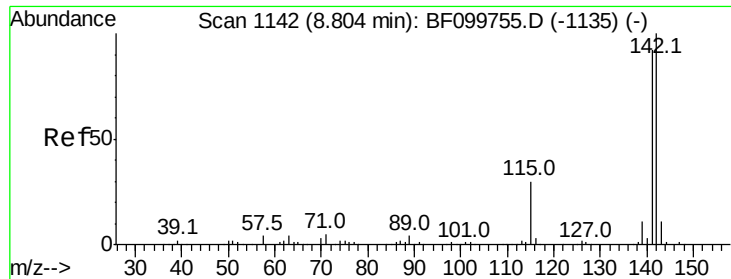


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





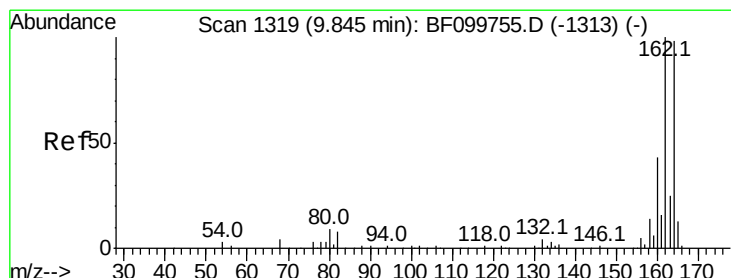
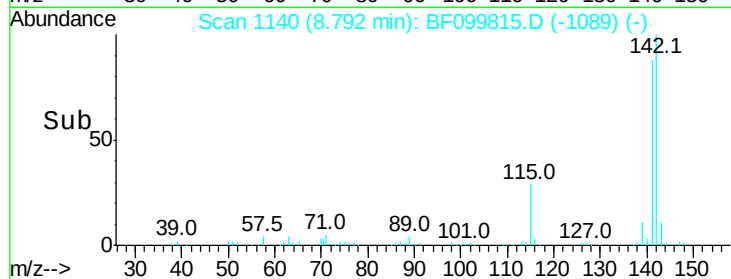
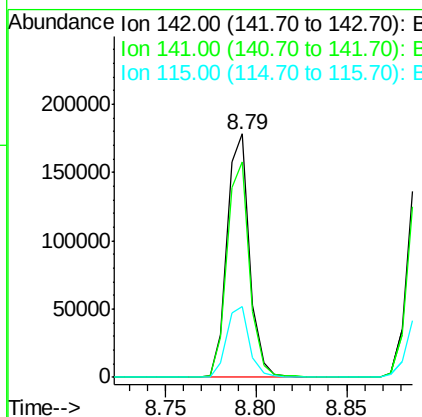
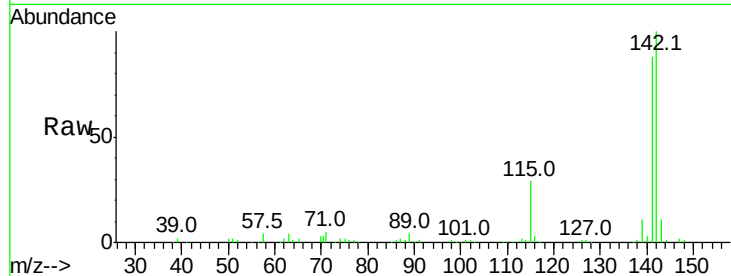
#37
 2-Methylnaphthalene
 Concen: 13.539 ng
 RT: 8.79 min Scan# 1140
 Delta R.T. -0.00 min
 Lab File: BF099815.D
 Acq: 25 Oct 2017 16:05

Instrument :
 BNA_F
 ClientSampleId :
 RT-4248-COMP

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2
115	28.9	26.1	39.1

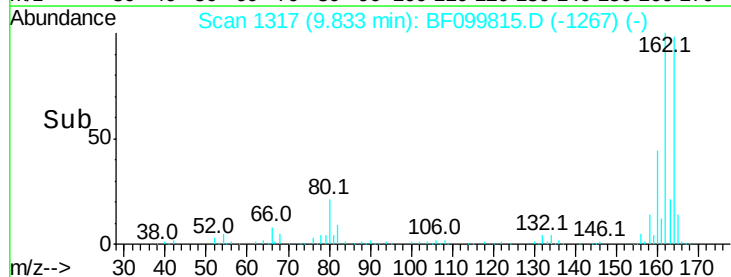
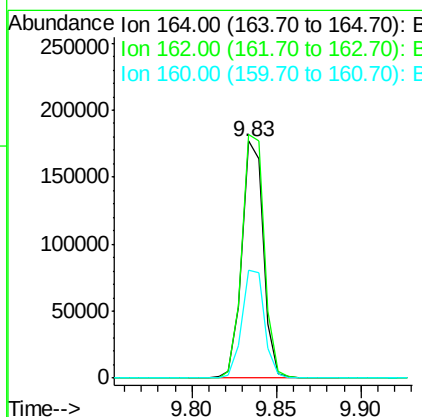
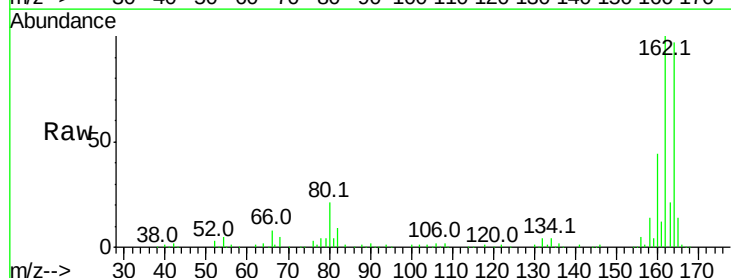
Manual Integrations
 APPROVED

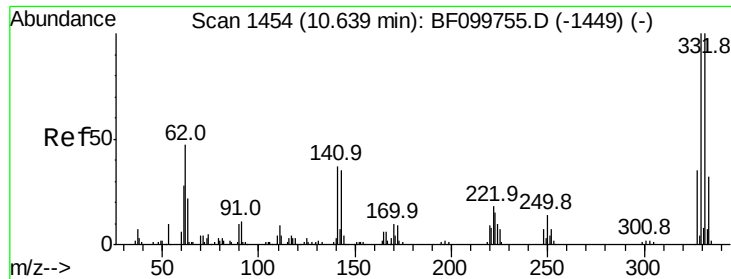
Sohil
 10/27/2017 8:58:53 AM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: BF099815.D
 Acq: 25 Oct 2017 16:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.9	86.1	129.1
160	45.4	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 18.092 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.00 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Instrument :

BNA_F

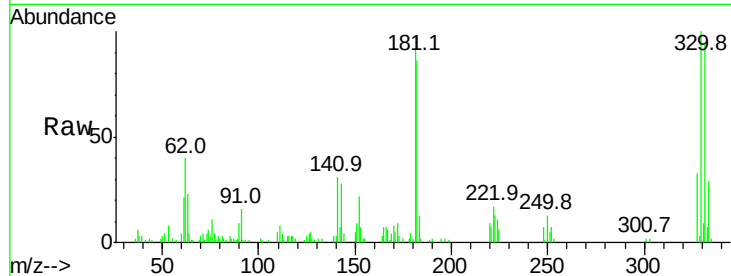
ClientSampleId :

RT-4248-COMP

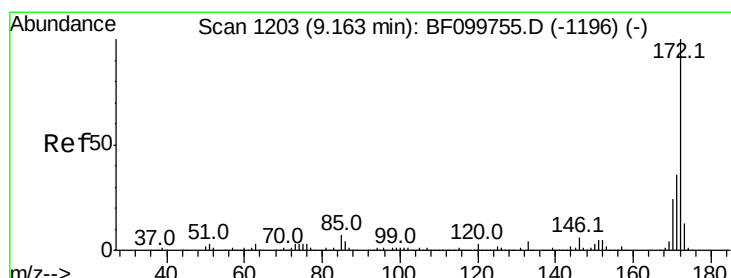
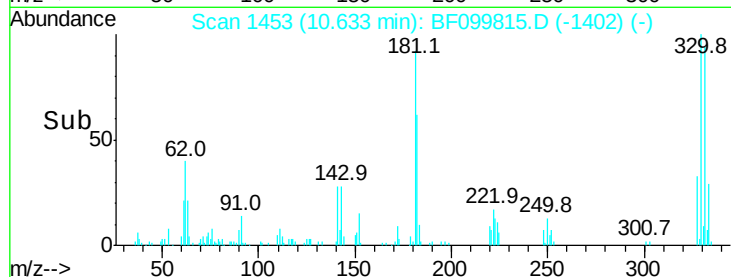
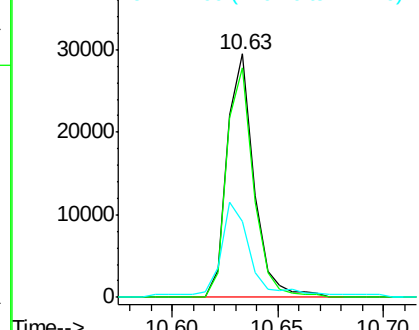
Tot Ion:	330	Resp:	25960
Ion Ratio	Lower	Upper	
330	100		
332	94.7	77.0	115.6
141	47.7	29.9	44.9#

Manual Integrations
APPROVED

Sohil
10/27/2017 8:58:53 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: 16.366 ng

RT: 9.15 min Scan# 1201

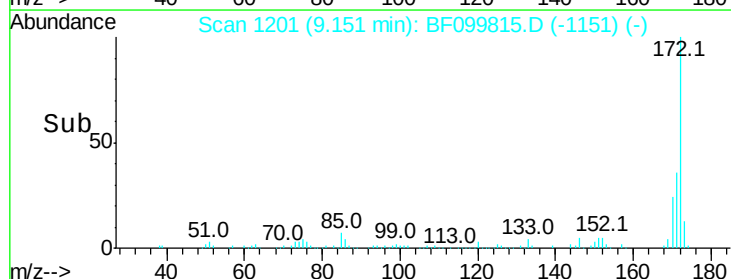
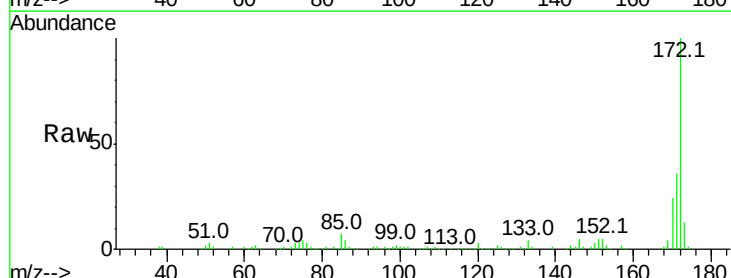
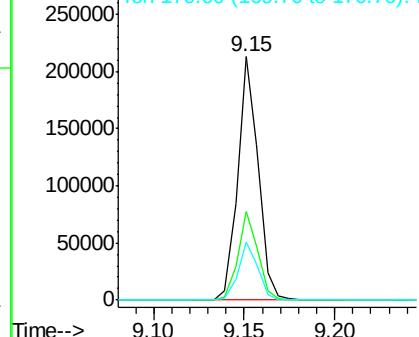
Delta R.T. -0.01 min

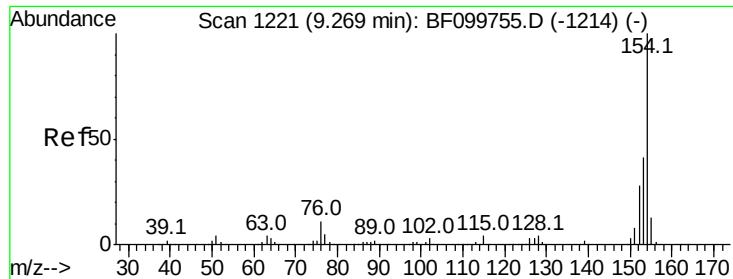
Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Tgt Ion:	172	Resp:	167025
Ion Ratio	Lower	Upper	
172	100		
171	36.3	29.7	44.5
170	23.7	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





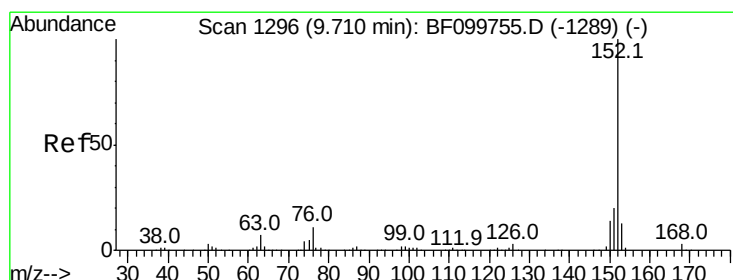
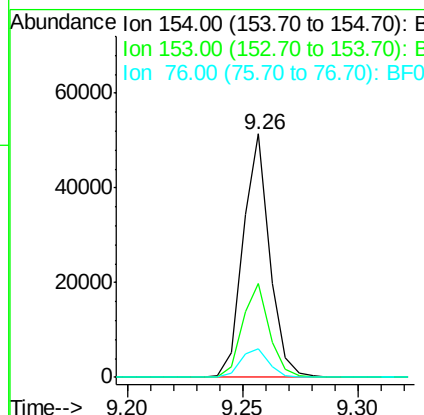
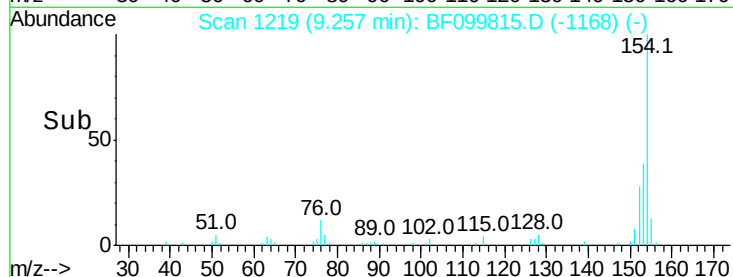
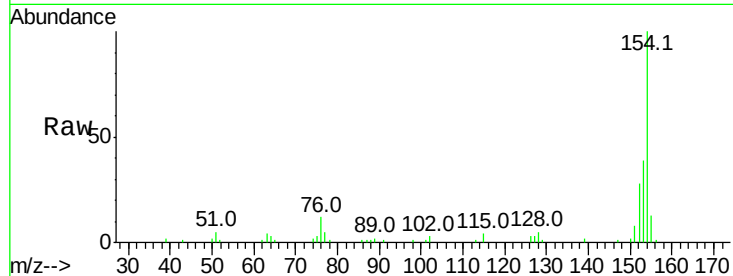
#45
 1,1'-Biphenyl
 Concen: 2.892 ng
 RT: 9.26 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: BF099815.D
 Acq: 25 Oct 2017 16:05

Instrument :
 BNA_F
 ClientSampleId :
 RT-4248-COMP

Tot Ion	Ratio	Lower	Upper
154	100		
153	38.8	21.3	61.3
76	11.5	0.0	34.0

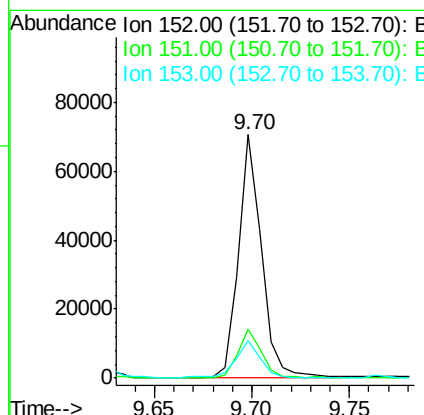
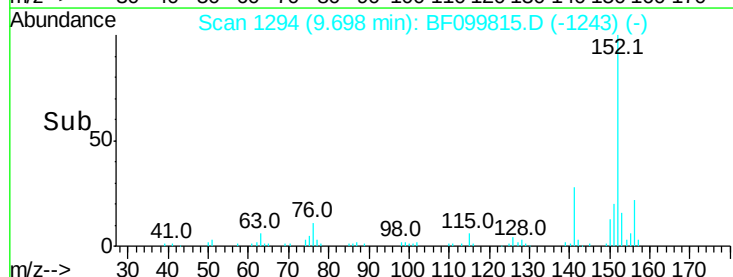
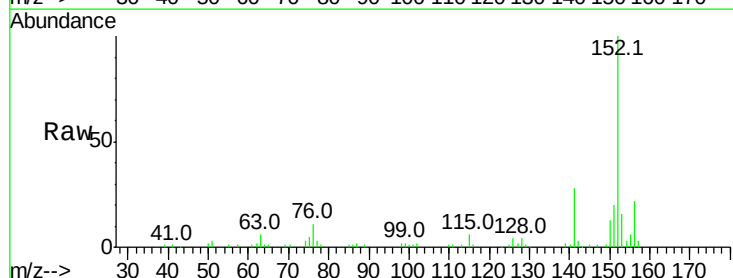
Manual Integrations
 APPROVED

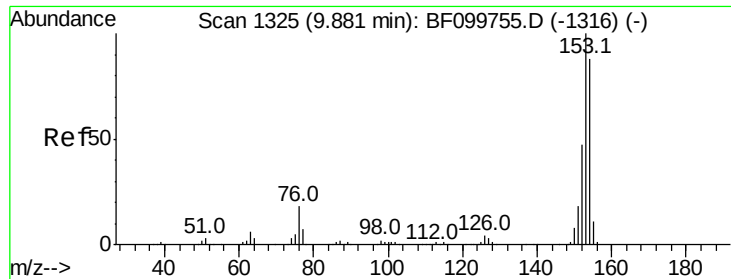
Sohil
 10/27/2017 8:58:53 AM



#48
 Acenaphthylene
 Concen: 3.652 ng
 RT: 9.70 min Scan# 1294
 Delta R.T. -0.00 min
 Lab File: BF099815.D
 Acq: 25 Oct 2017 16:05

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	15.7	10.7	16.1





#51

Acenaphthene

Concen: 17.408 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Instrument :

BNA_F

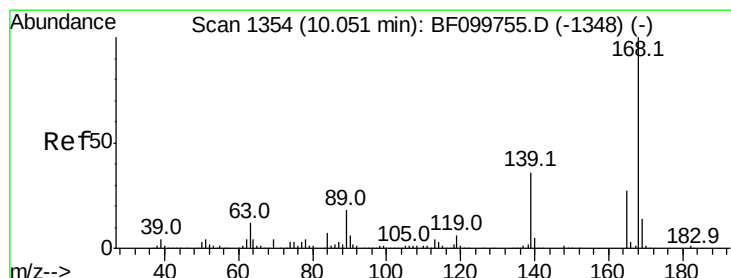
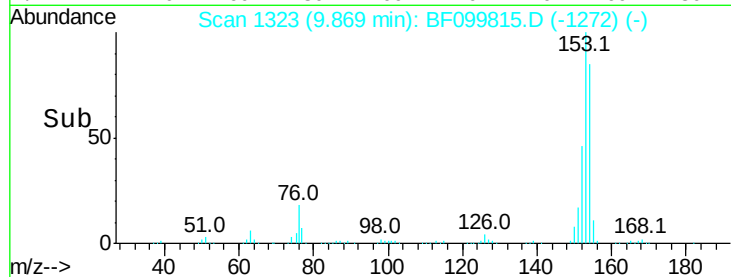
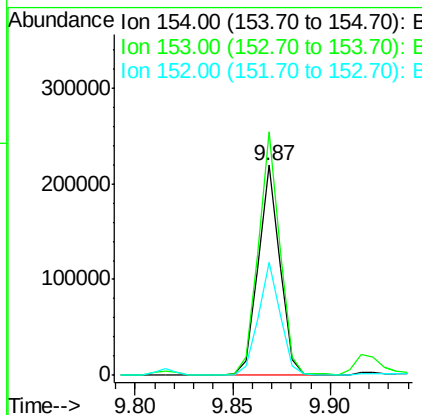
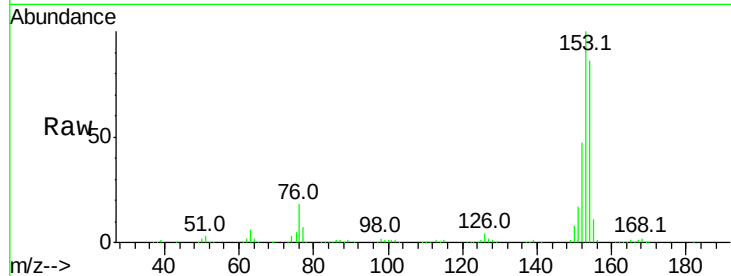
ClientSampleId :

RT-4248-COMP

Tot Ion:	154	Resp:	169476
Ion Ratio	Lower	Upper	
154	100		
153	115.8	91.2	136.8
152	54.1	43.8	65.8

Manual Integrations
APPROVED

Sohil
10/27/2017 8:58:53 AM



#54

Dibenzofuran

Concen: 15.170 ng

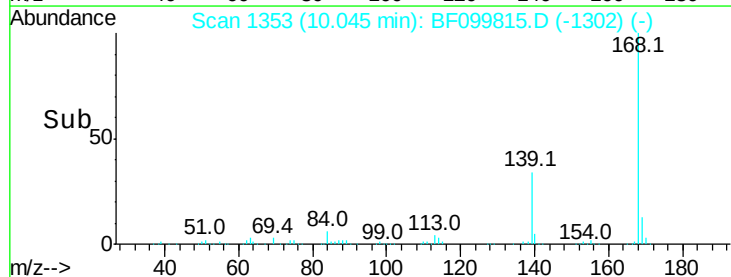
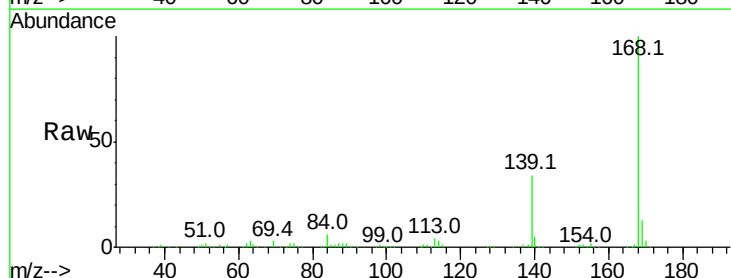
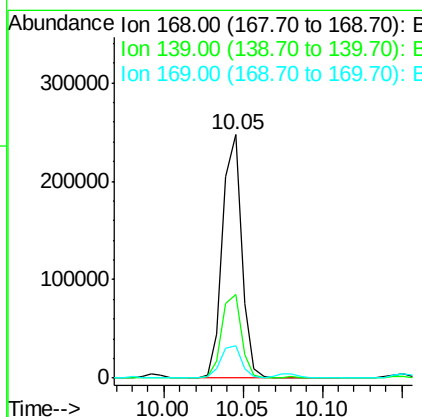
RT: 10.05 min Scan# 1353

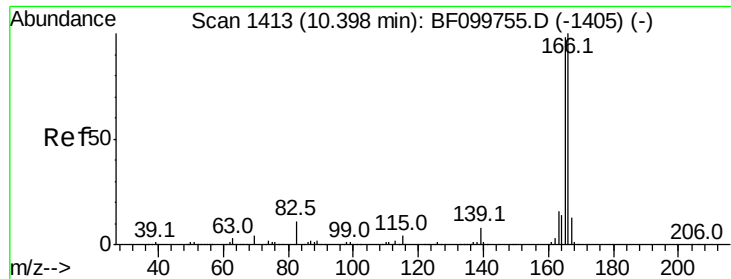
Delta R.T. -0.00 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Tgt Ion:	168	Resp:	208471
Ion Ratio	Lower	Upper	
168	100		
139	34.2	30.1	45.1
169	13.3	10.9	16.3





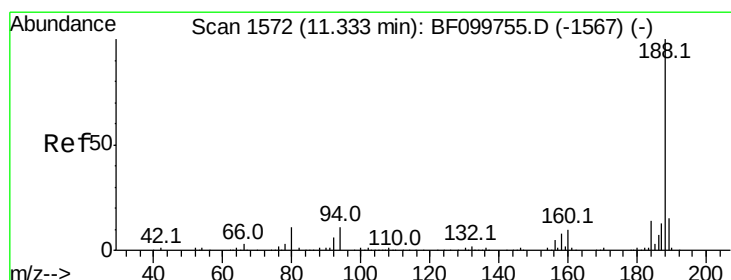
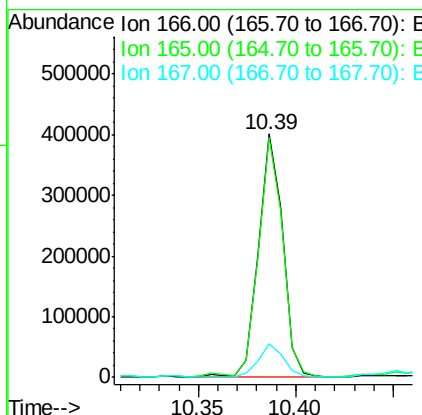
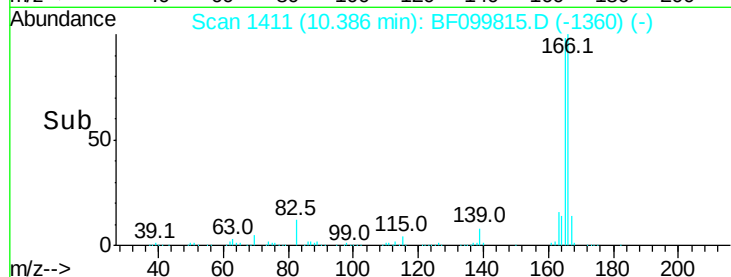
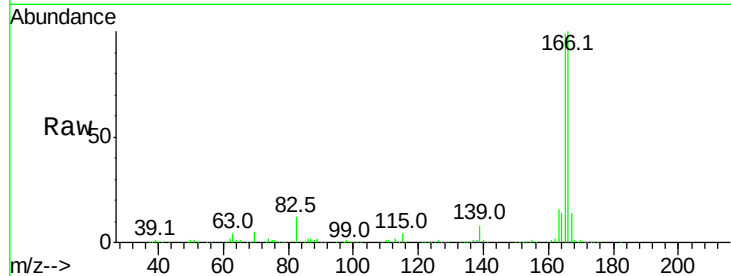
#57
 Fluorene
 Concen: 30.076 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.00 min
 Lab File: BF099815.D
 Acq: 25 Oct 2017 16:05

Instrument :
 BNA_F
 ClientSampleId :
 RT-4248-COMP

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.8	119.8
167	13.9	10.6	16.0

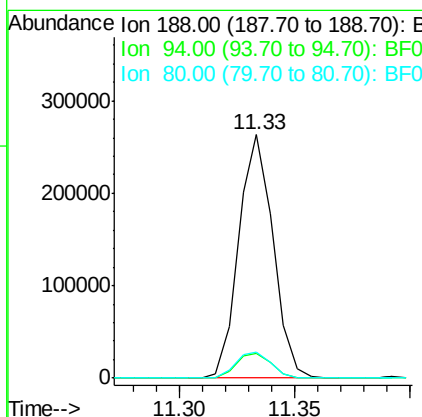
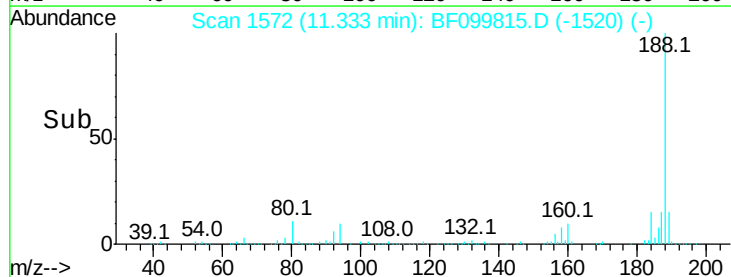
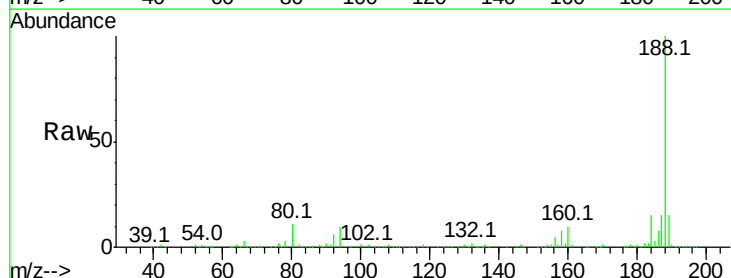
Manual Integrations
 APPROVED

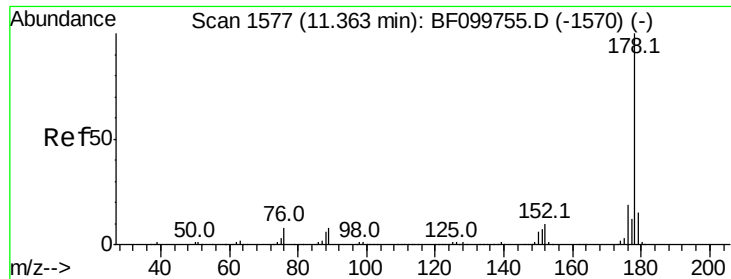
Sohil
 10/27/2017 8:58:53 AM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: BF099815.D
 Acq: 25 Oct 2017 16:05

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.5	12.7
80	10.7	9.2	13.8





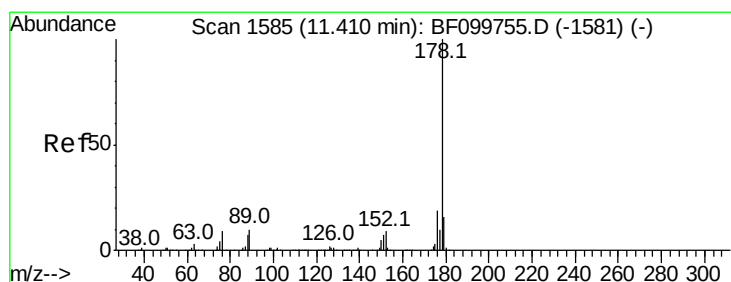
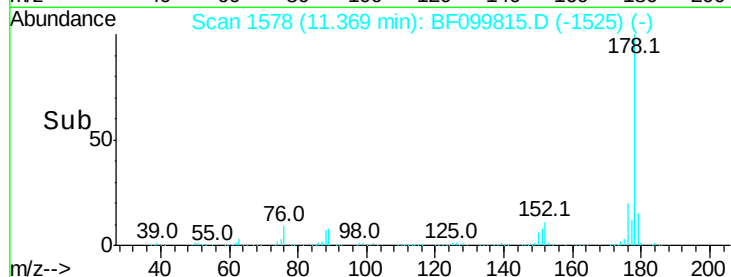
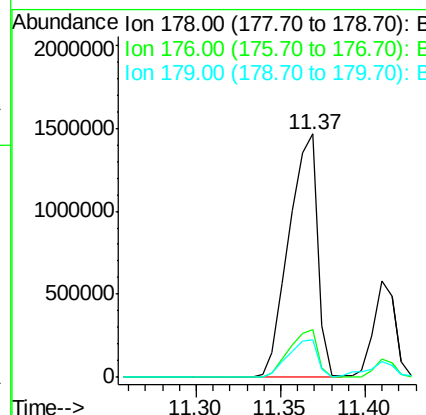
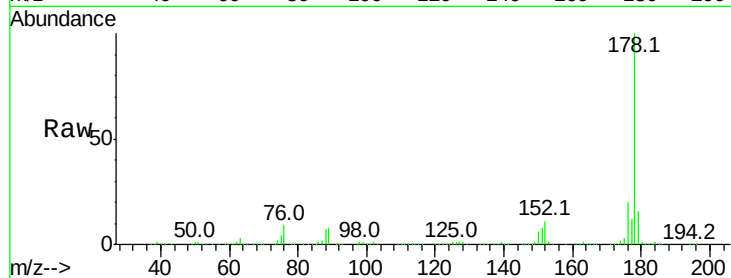
#70
Phenanthrene
Concen: 112.403 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Instrument :
BNA_F
ClientSampleId :
RT-4248-COMP

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.5	13.0	19.6

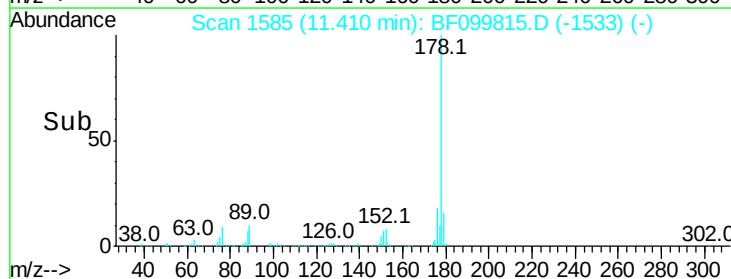
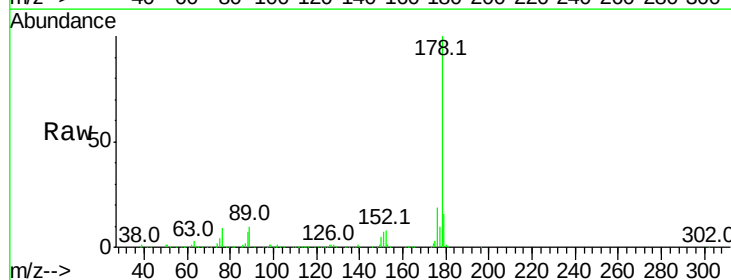
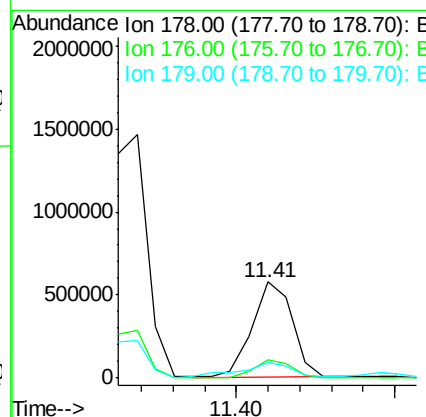
Manual Integrations
APPROVED

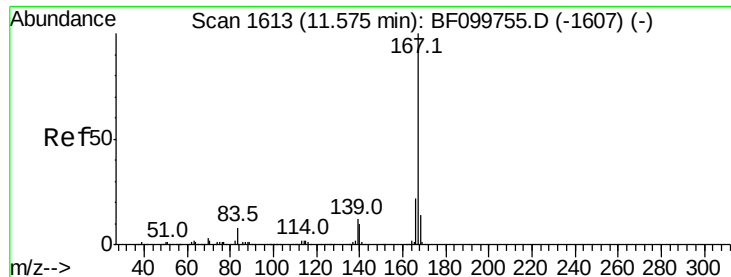
Sohil
10/27/2017 8:58:53 AM



#71
Anthracene
Concen: 32.500 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.01 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	16.2	12.6	19.0





#72

Carbazole

Concen: 19.186 ng

RT: 11.57 min Scan# 1612

Delta R.T. -0.00 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Instrument :

BNA_F

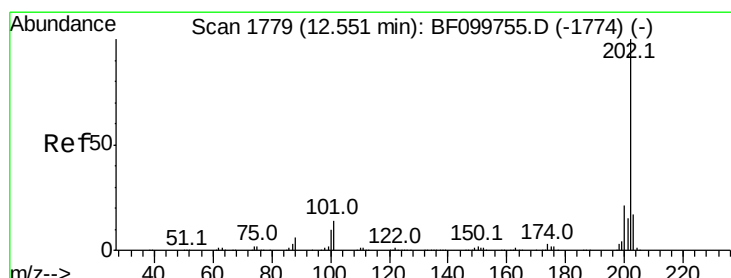
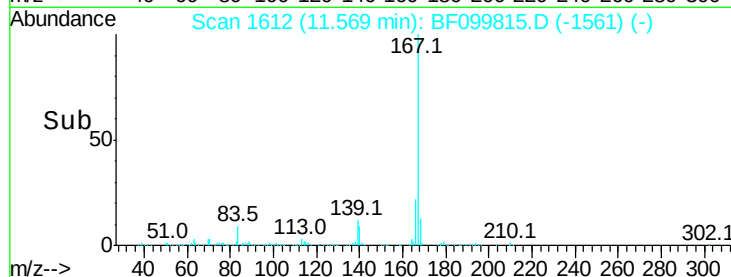
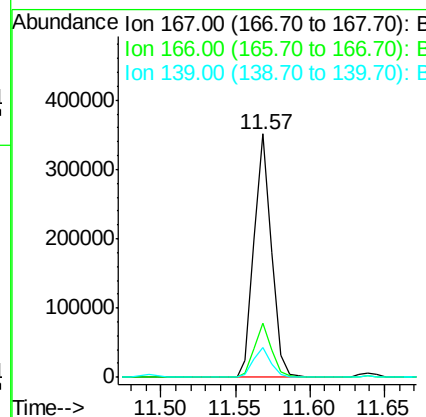
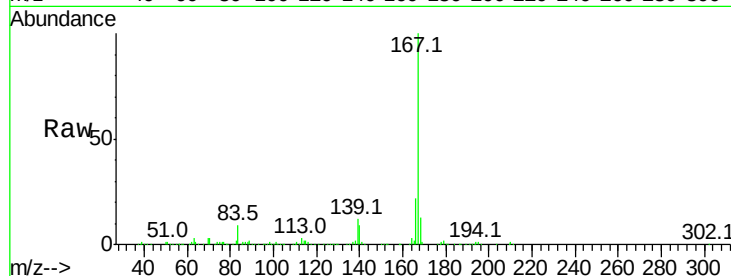
ClientSampleId :

RT-4248-COMP

Tot Ion:	167	Resp:	281512
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.6	26.4
139	12.2	10.9	16.3

Manual Integrations
APPROVED

Sohil
10/27/2017 8:58:53 AM



#74

Fluoranthene

Concen: 90.066 ng

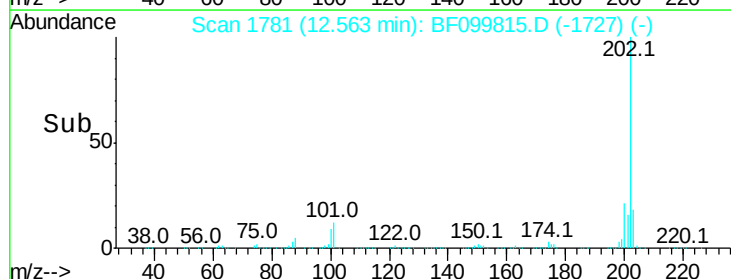
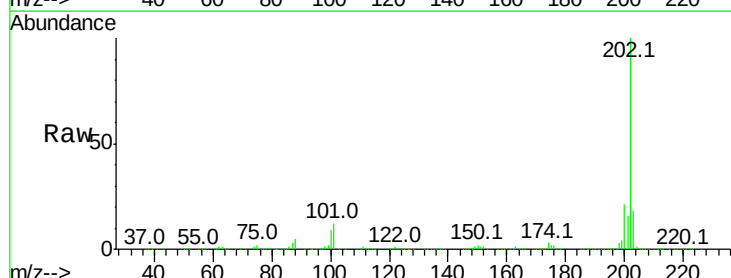
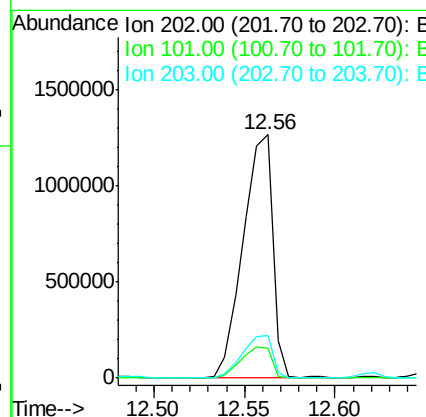
RT: 12.56 min Scan# 1781

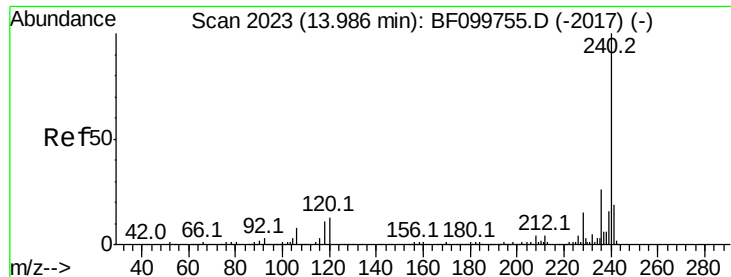
Delta R.T. 0.02 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Tgt Ion:	202	Resp:	1438787
Ion Ratio	Lower	Upper	
202	100		
101	12.0	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.01 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Instrument :

BNA_F

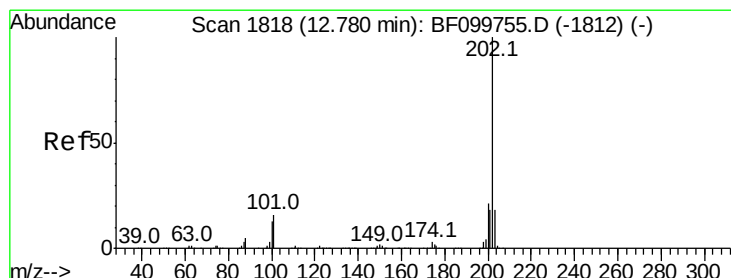
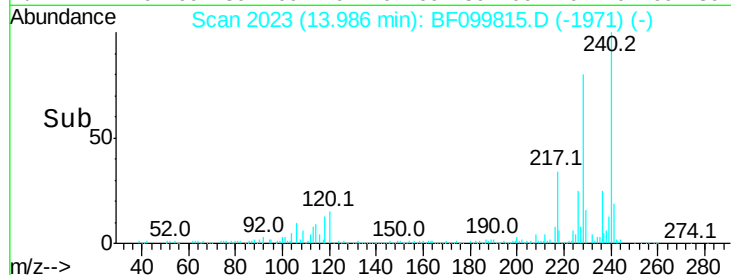
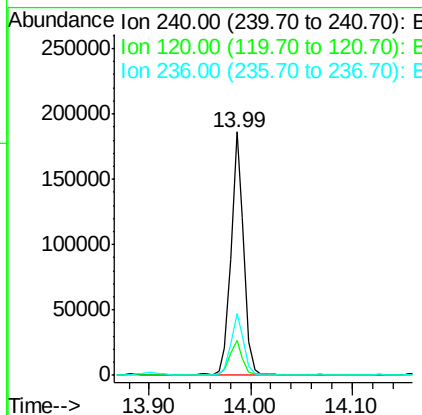
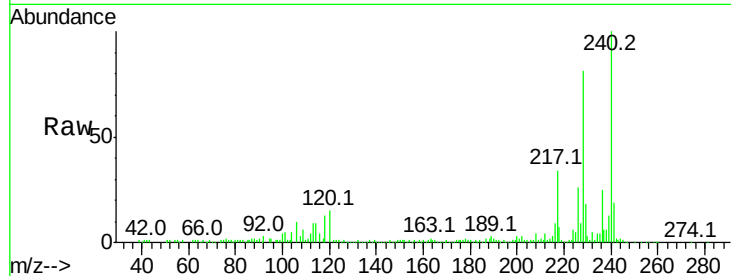
ClientSampled :

RT-4248-COMP

Tot Ion:	240	Resp:	163016
Ion Ratio		Lower	Upper
240	100		
120	14.5	9.5	14.3#
236	25.3	20.7	31.1

Manual Integrations
APPROVED

Sohil
10/27/2017 8:58:53 AM



#77

Pyrene

Concen: 100.530 ng

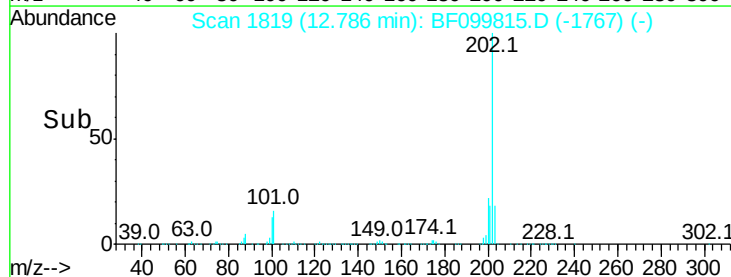
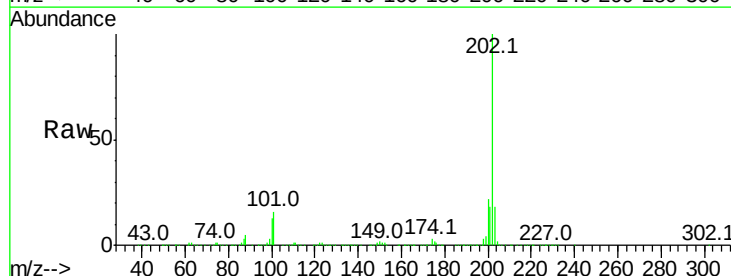
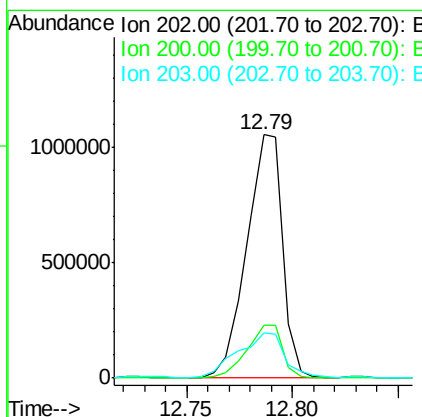
RT: 12.79 min Scan# 1819

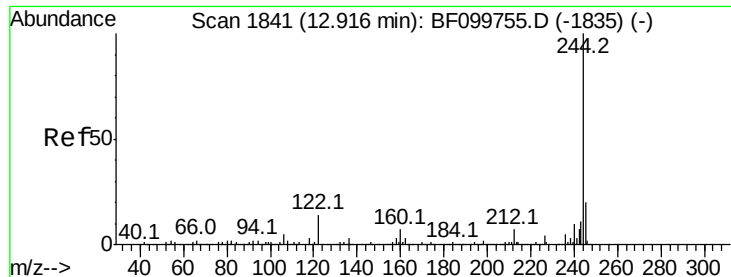
Delta R.T. 0.01 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Tgt Ion:	202	Resp:	1246127
Ion Ratio		Lower	Upper
202	100		
200	21.9	17.4	26.2
203	18.3	14.3	21.5





#78

Terphenyl-d14

Concen: 17.292 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Instrument :

BNA_F

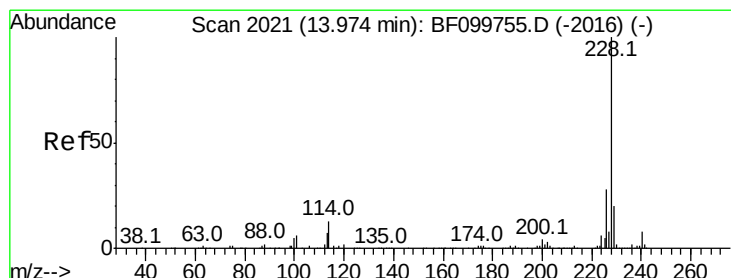
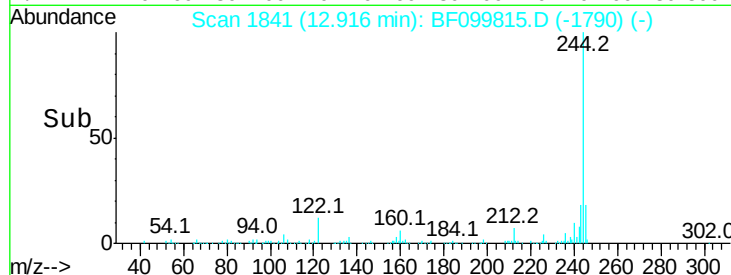
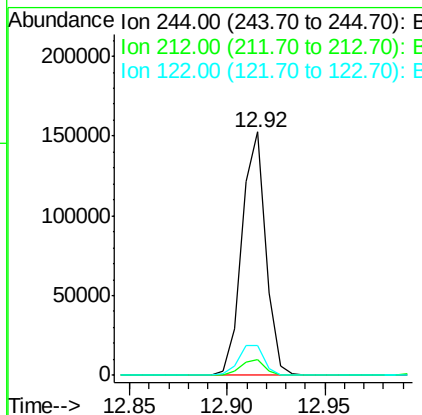
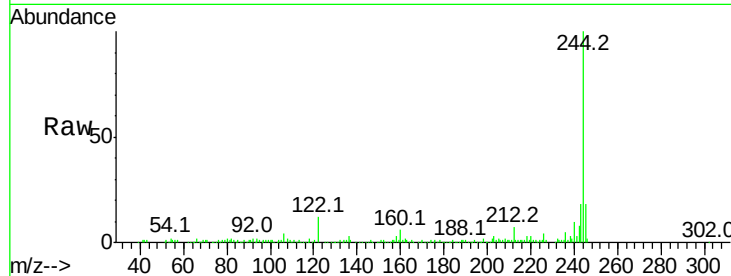
ClientSampleId :

RT-4248-COMP

Tot Ion:	244	Resp:	128985
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	12.1	11.0	16.4

Manual Integrations
APPROVED

Sohil
10/27/2017 8:58:53 AM



#80

Benzo(a)anthracene

Concen: 49.612 ng

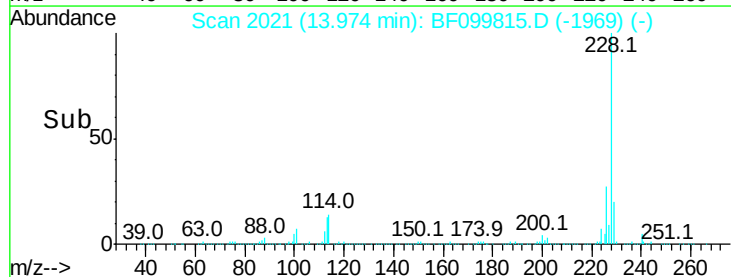
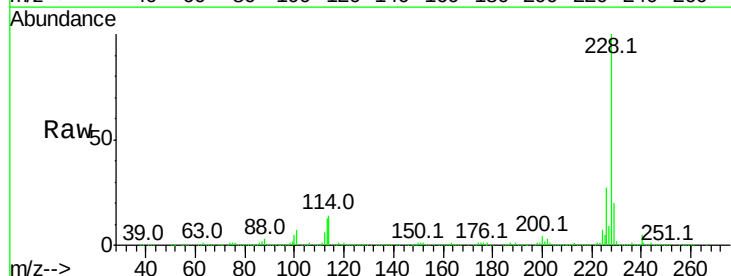
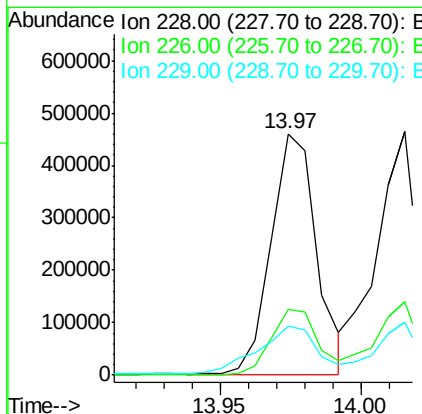
RT: 13.97 min Scan# 2021

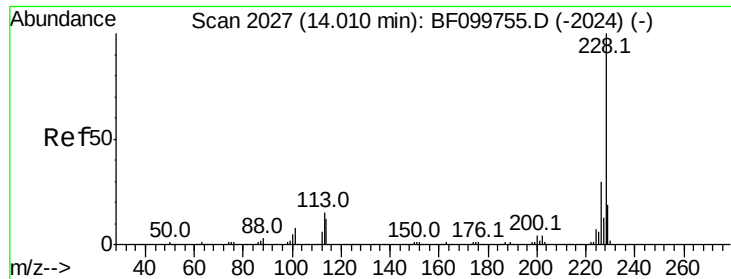
Delta R.T. 0.01 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Tgt Ion:	228	Resp:	512700
Ion Ratio	Lower	Upper	
228	100		
226	27.4	22.6	33.8
229	20.3	15.8	23.6





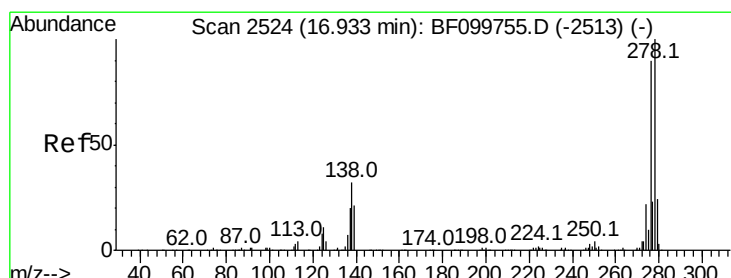
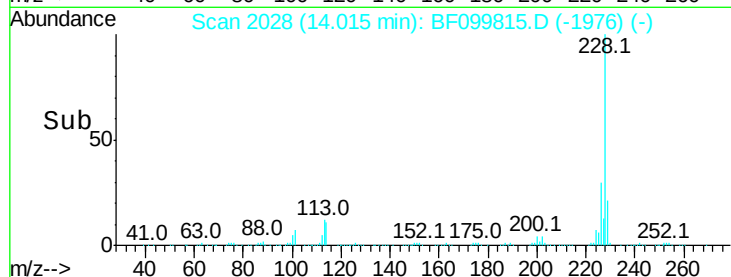
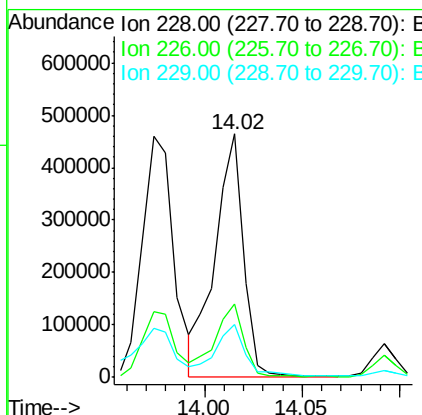
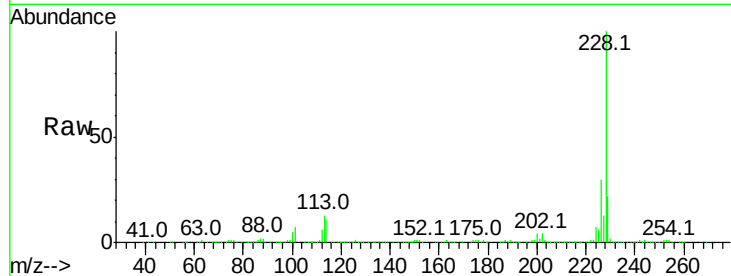
#82
Chrysene
Concen: 48.108 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.01 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Instrument :
BNA_F
ClientSampleId :
RT-4248-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.0	37.6
229	21.6	16.2	24.4

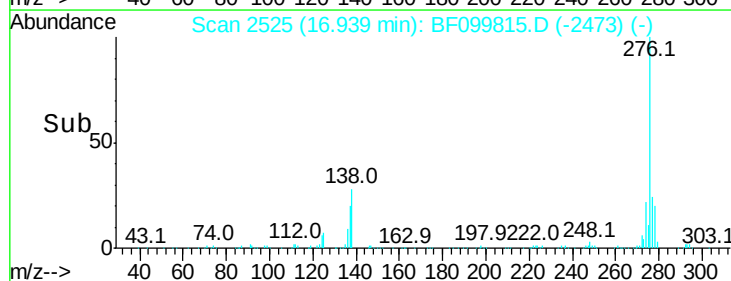
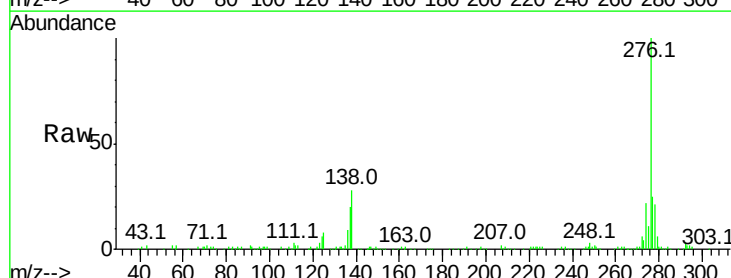
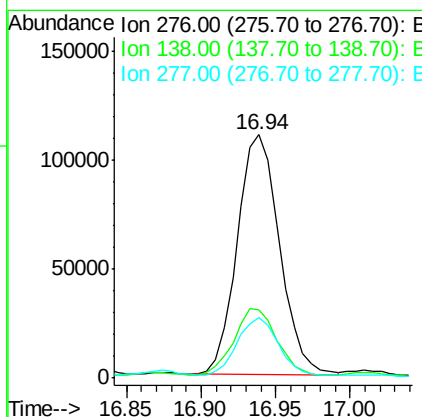
Manual Integrations
APPROVED

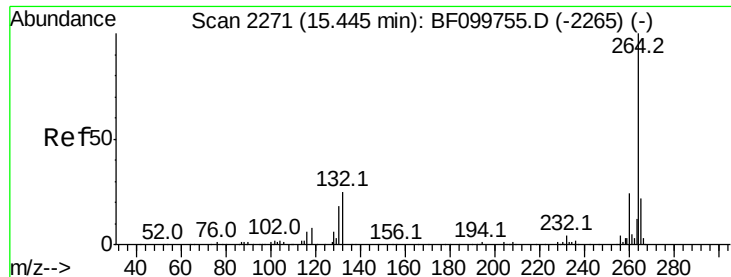
Sohil
10/27/2017 8:58:53 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 24.219 ng
RT: 16.94 min Scan# 2525
Delta R.T. 0.01 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.4	25.0	37.6
277	24.6	20.1	30.1





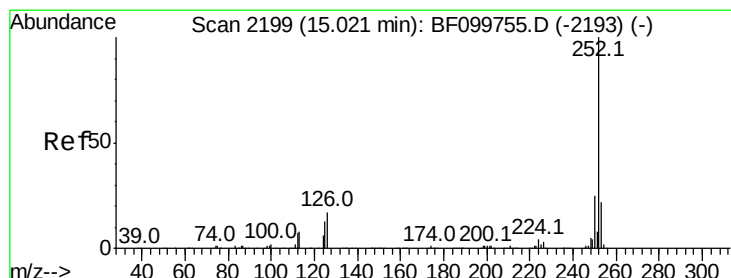
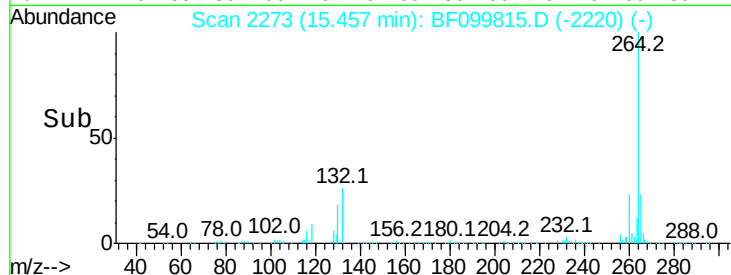
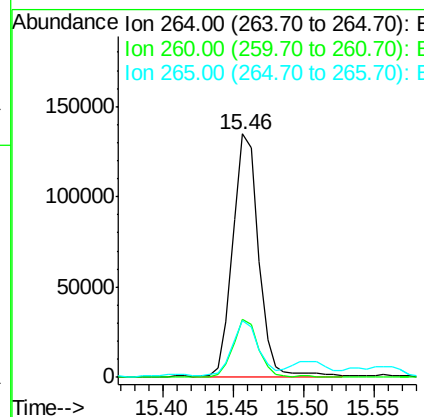
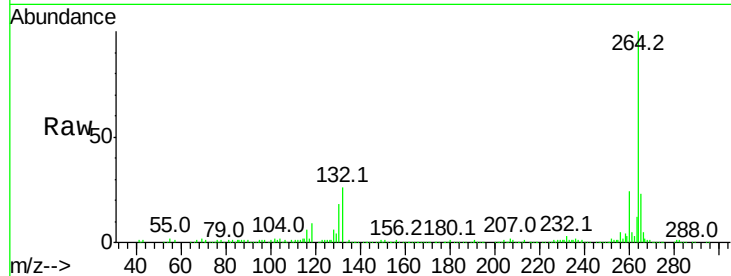
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.01 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Instrument :
BNA_F
ClientSampleId :
RT-4248-COMP

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	23.2	17.5	26.3

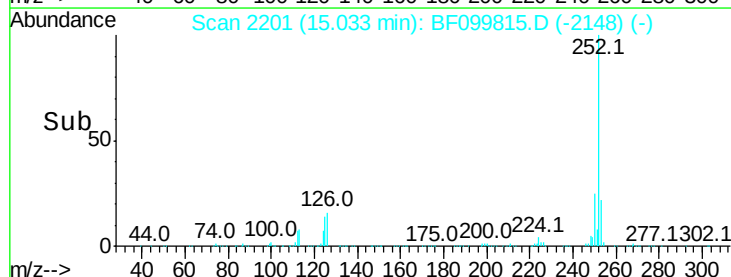
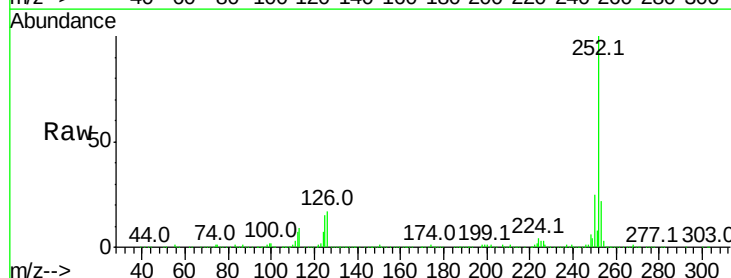
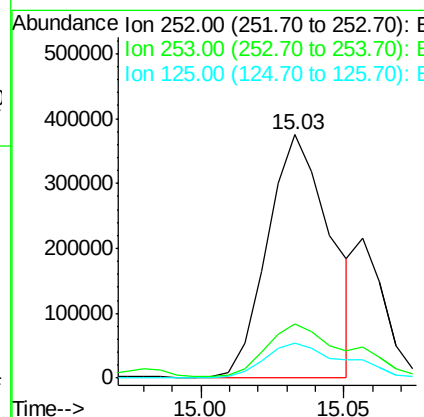
Manual Integrations
APPROVED

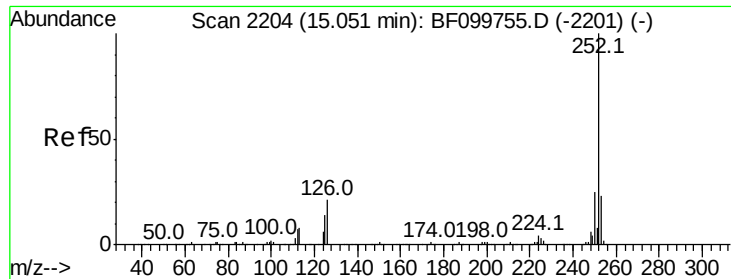
Sohil
10/27/2017 8:58:53 AM



#87
Benzo(b)fluoranthene
Concen: 53.146 ng m
RT: 15.03 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	14.6	9.0	13.6





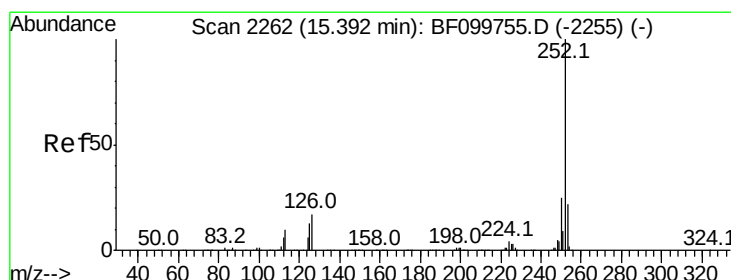
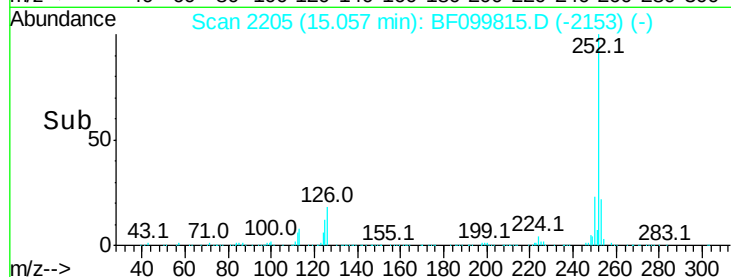
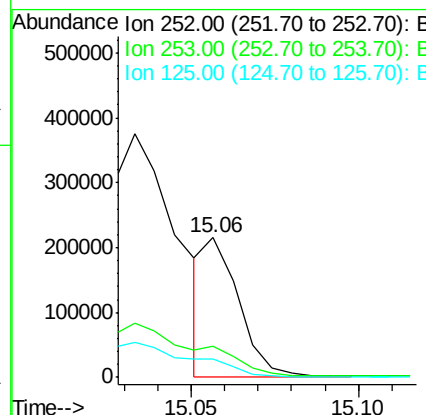
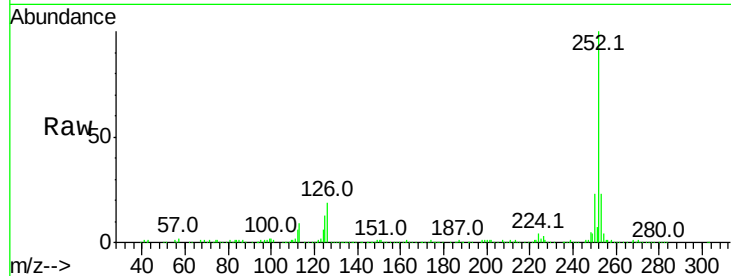
#88
Benzo(k)fluoranthene
Concen: 15.371 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.01 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Instrument :
BNA_F
ClientSampleId :
RT-4248-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	13.0	10.2	15.2

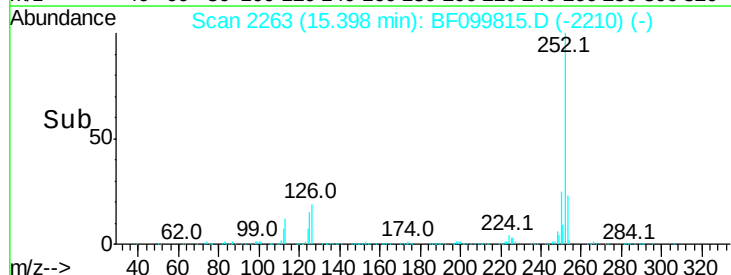
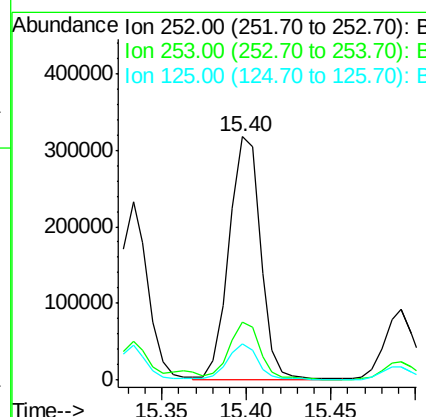
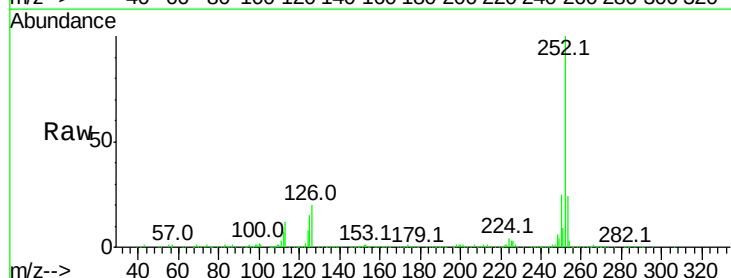
Manual Integrations
APPROVED

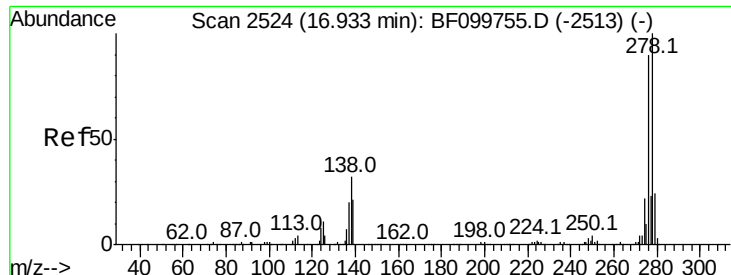
Sohil
10/27/2017 8:58:53 AM



#89
Benzo(a)pyrene
Concen: 42.167 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF099815.D
Acq: 25 Oct 2017 16:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.1	25.7
125	14.8	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 6.528 ng

RT: 16.93 min Scan# 2524

Delta R.T. -0.00 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Instrument :

BNA_F

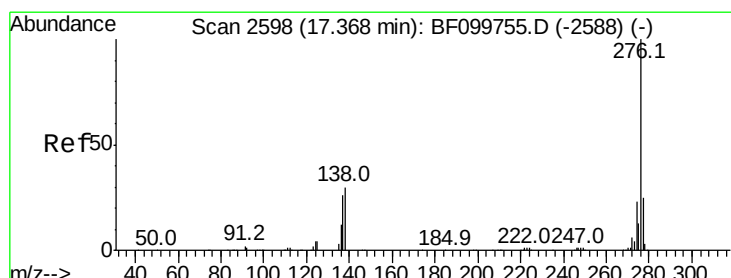
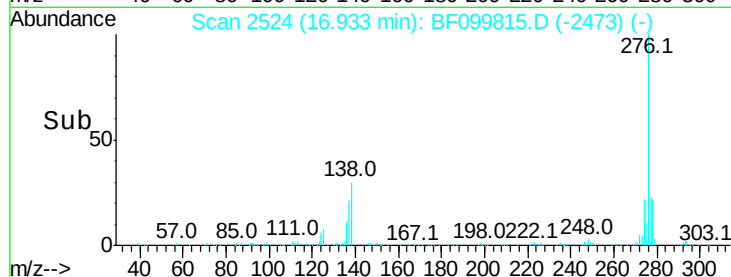
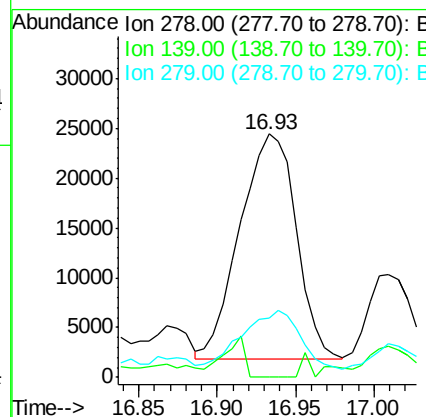
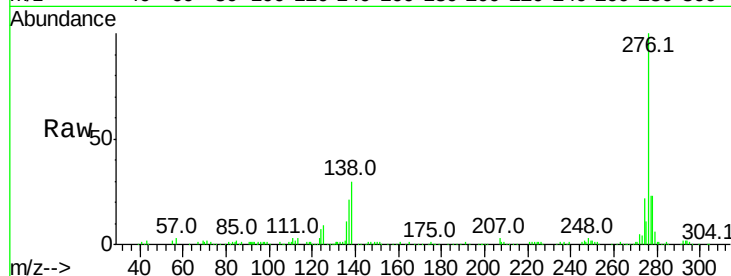
ClientSampleId :

RT-4248-COMP

Tot Ion:	278	Resp:	56303
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	24.6	19.0	28.4

Manual Integrations
APPROVED

Sohil
10/27/2017 8:58:53 AM



#91

Benzo(g,h,i)perylene

Concen: 24.077 ng

RT: 17.39 min Scan# 2601

Delta R.T. 0.01 min

Lab File: BF099815.D

Acq: 25 Oct 2017 16:05

Tgt Ion:	276	Resp:	203169
Ion Ratio	Lower	Upper	
276	100		
277	24.6	17.9	26.9
138	30.6	21.8	32.8

