

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
 Data File : BF085588.D
 Acq On : 19 Mar 2016 22:19
 Operator : UM/SJ
 Sample : H1803-01RE
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-01RE

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:09:27 PM

Quant Time: Mar 21 03:59:41 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 23:31:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.01	152	347456	20.00	ng	0.15
21) Naphthalene-d8	0.00	136	0	0.00	ng	-8.14
38) Acenaphthene-d10	0.00	164	0	0.00	ng	-9.90
63) Phenanthrene-d10	11.37	188	219	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	1488	20.00	ng	0.00
86) Perylene-d12	15.43	264	1851	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	820968	39.69	ng	0.00
7) Phenol-d6	6.48	99	1031872	38.89	ng	-0.01
23) Nitrobenzene-d5	7.42	82	666314	0.00	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	182720	0.00	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	955793	0.00	ng	-0.01
78) Terphenyl-d14	12.96	244	748157	12099.05	ng	0.00
Target Compounds						
70) Phenanthrene	11.40	178	131791	11413.06	ng	Qvalue 99
71) Anthracene	11.44	178	37529	3099.58	ng	97
72) Carbazole	11.60	167	16773	1605.76	ng	99
74) Fluoranthene	12.58	202	209456	17323.35	ng	90
77) Pyrene	12.81	202	183434	1716.89	ng	99
80) Benzo(a)anthracene	13.99	228	101660	1176.84	ng	96
82) Chrysene	14.03	228	76035m	914.92	ng	
85) Indeno(1,2,3-cd)pyrene	16.84	276	49526	713.17	ng	92
87) Benzo(b)fluoranthene	15.03	252	130286m	1078.73	ng	
88) Benzo(k)fluoranthene	15.05	252	36066m	362.45	ng	
89) Benzo(a)pyrene	15.37	252	90986	888.61	ng	96
90) Dibenzo(a,h)anthracene	16.84	278	12177	142.59	ng	# 66
91) Benzo(g,h,i)perylene	17.25	276	50267	608.11	ng	92

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

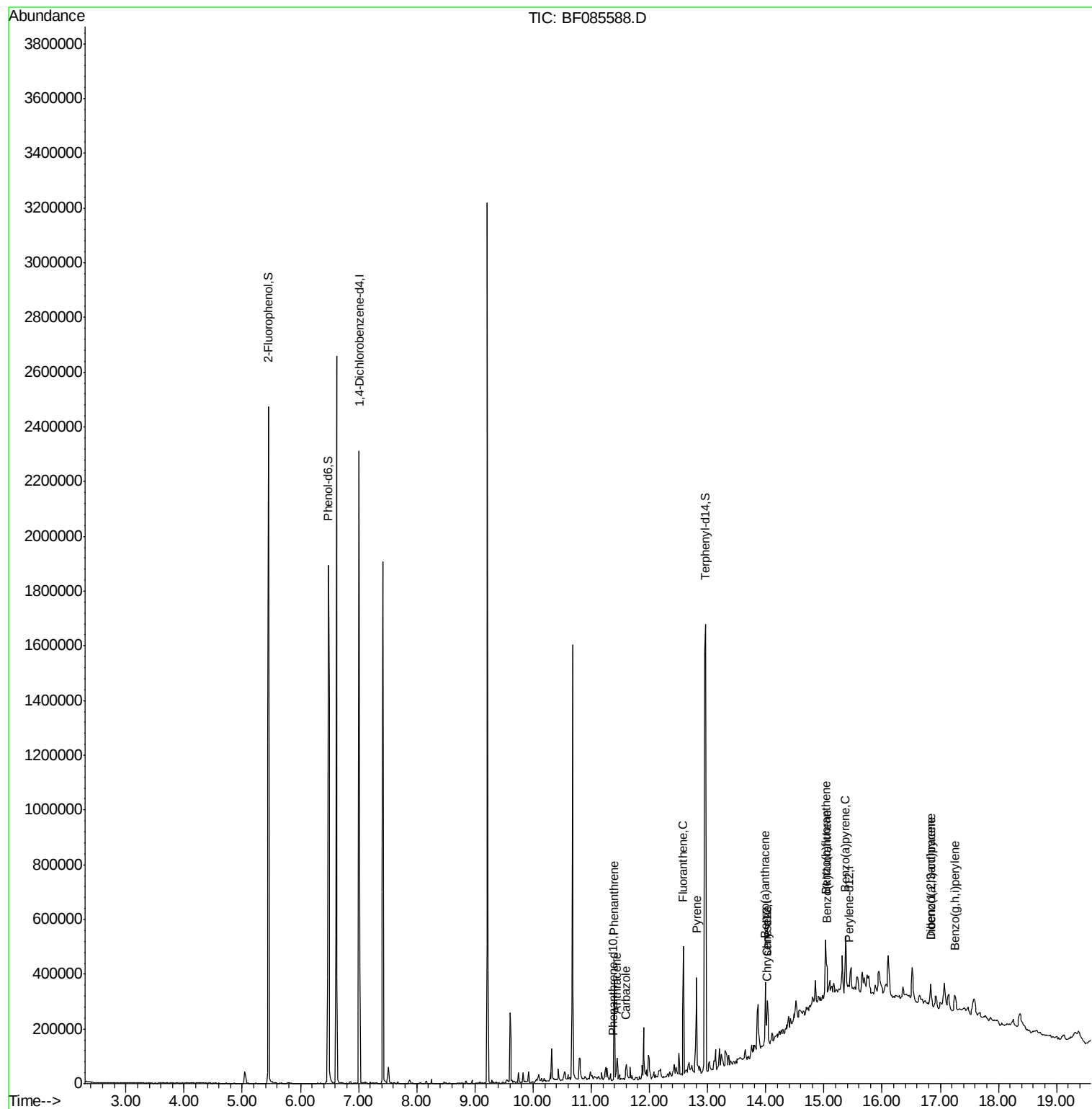
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
Data File : BF085588.D
Acq On : 19 Mar 2016 22:19
Operator : UM/SJ
Sample : H1803-01RE
Misc :
ALS Vial : 49 Sample Multiplier: 1

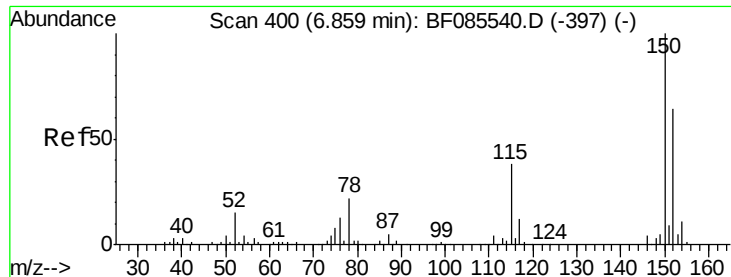
Instrument :
BNA_F
ClientSampleId :
SP-01RE

Manual Integrations
APPROVED

apatel
3/21/2016 5:09:27 PM

Quant Time: Mar 21 03:59:41 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 23:31:39 2016
Response via : Initial Calibration





#1

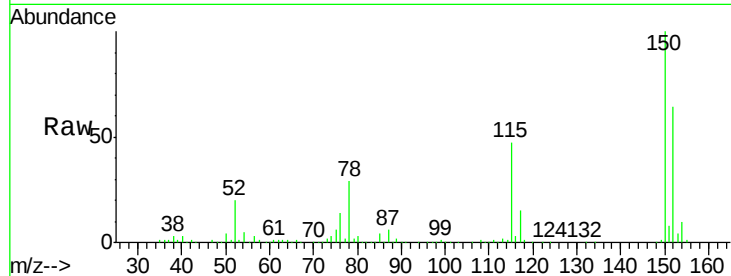
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.01 min Scan# 413
Delta R.T. 0.15 min
Lab File: BF085588.D
Acq: 19 Mar 2016 22:19

Instrument :
BNA_F
ClientSampleId :
SP-01RE

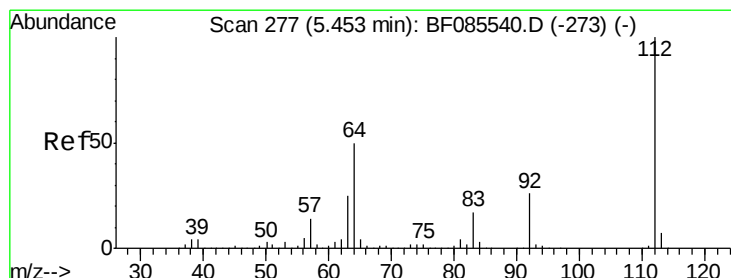
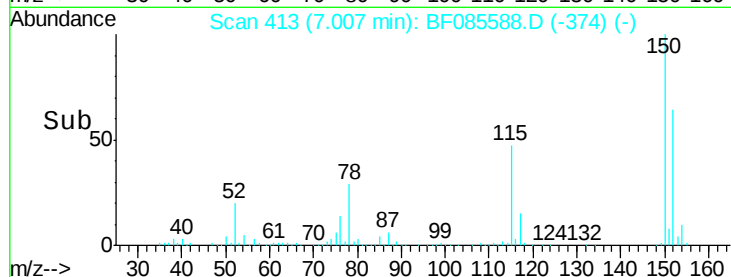
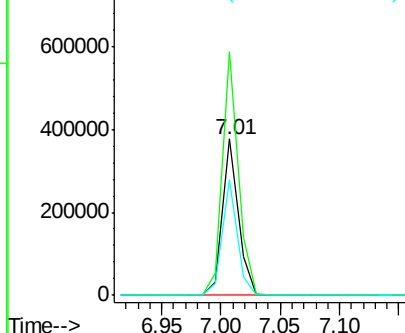
Tgt Ion	Ratio	Resp	Lower	Upper
152	100	347456		
150	155.7	124.2	186.2	
115	73.8	47.0	70.6	

Manual Integrations
APPROVED

apatel
3/21/2016 5:09:27 PM



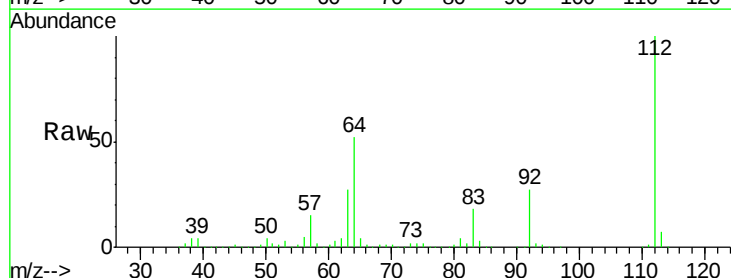
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



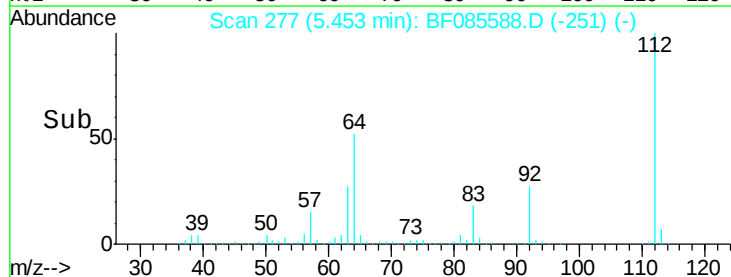
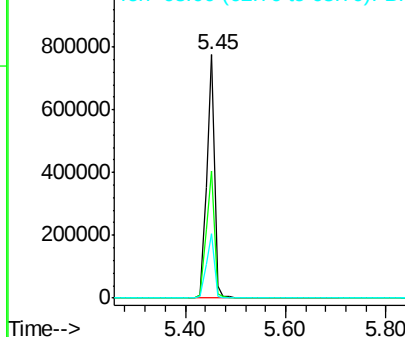
#5

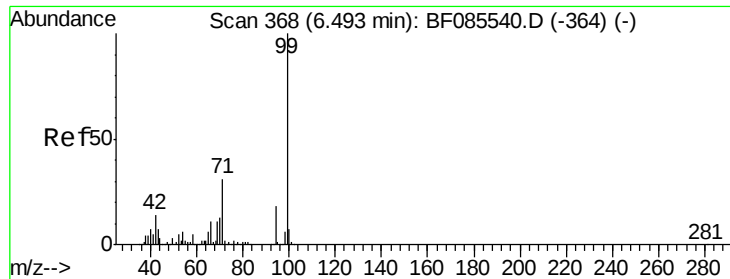
2-Fluorophenol
Concen: 39.69 ng
RT: 5.45 min Scan# 277
Delta R.T. 0.00 min
Lab File: BF085588.D
Acq: 19 Mar 2016 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	820968		
64	52.5	39.9	59.9	
63	26.6	20.2	30.2	



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 38.89 ng

RT: 6.48 min Scan# 367

Delta R.T. -0.01 min

Lab File: BF085588.D

Acq: 19 Mar 2016 22:19

Instrument :

BNA_F

ClientSampleId :

SP-01RE

Tgt Ion: 99 Resp: 1031872

Ion Ratio Lower Upper

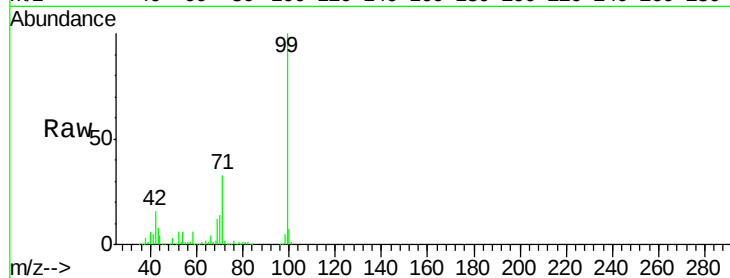
99 100

42 16.0 11.1 16.7

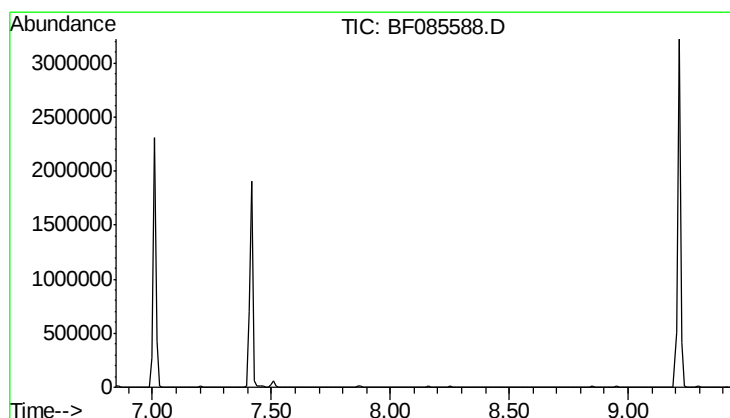
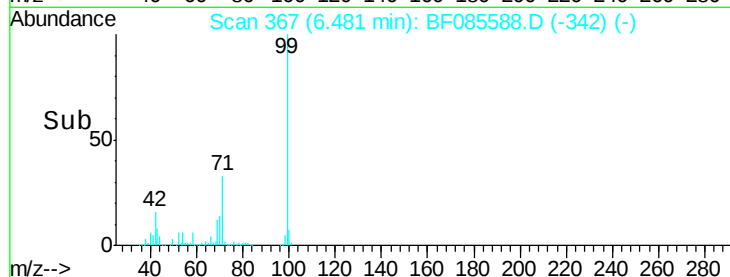
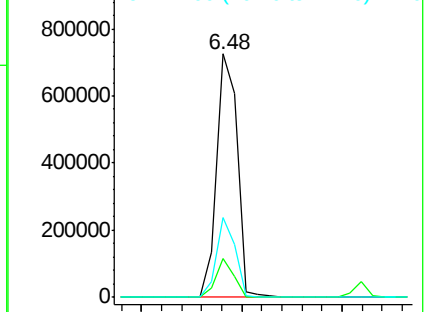
71 33.0 24.9 37.3

Manual Integrations
APPROVED

apatel
3/21/2016 5:09:27 PM



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 0.00 ng

Expected RT: 8.14 min

Lab File: BF085588.D

Acq: 19 Mar 2016 22:19

Tgt Ion: 136

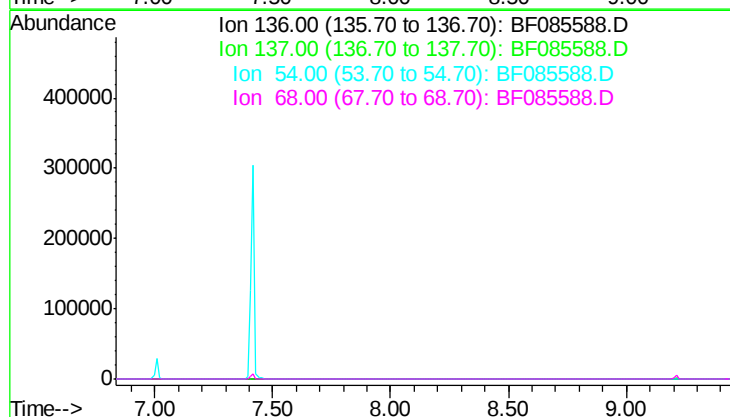
Sig Exp Ratio

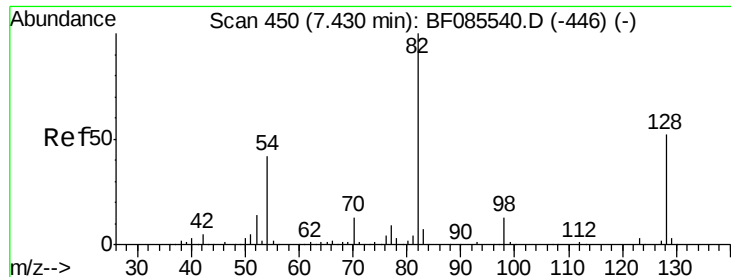
136 100

137 11.4

54 9.2

68 7.3





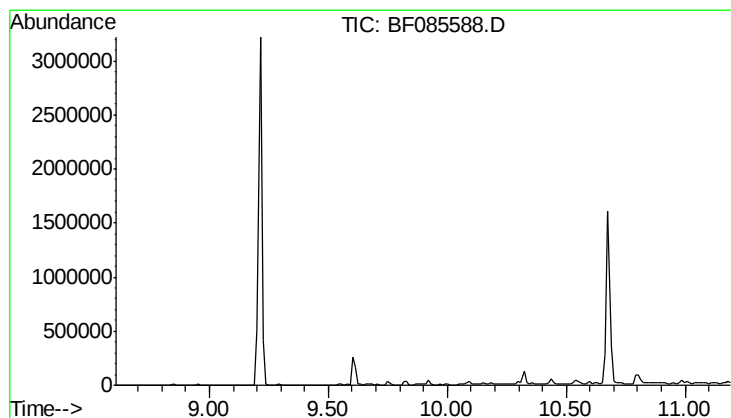
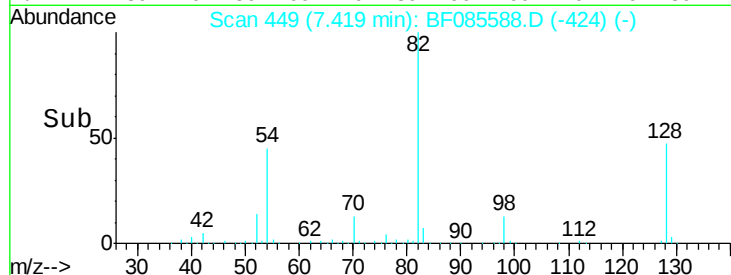
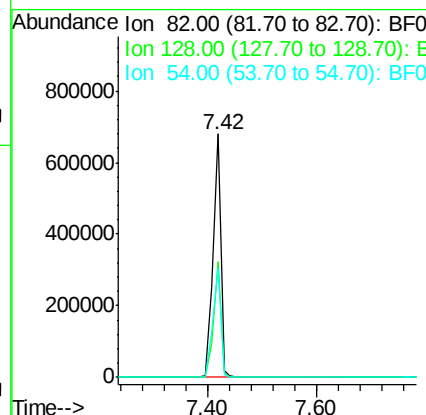
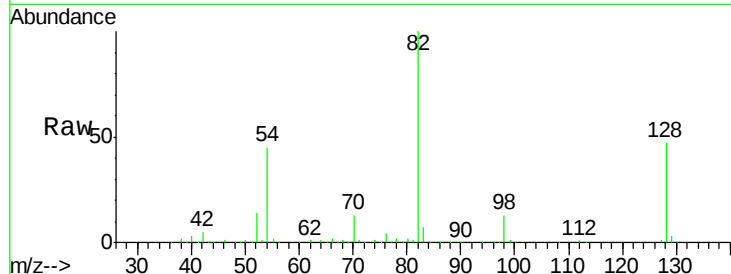
#23
 Nitrobenzene-d5
 Concen: 0.00 ng
 RT: 7.42 min Scan# 449
 Delta R.T. -0.01 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Instrument :
 BNA_F
 ClientSampleId :
 SP-01RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	47.3	41.8	62.8
54	44.7	33.4	50.0

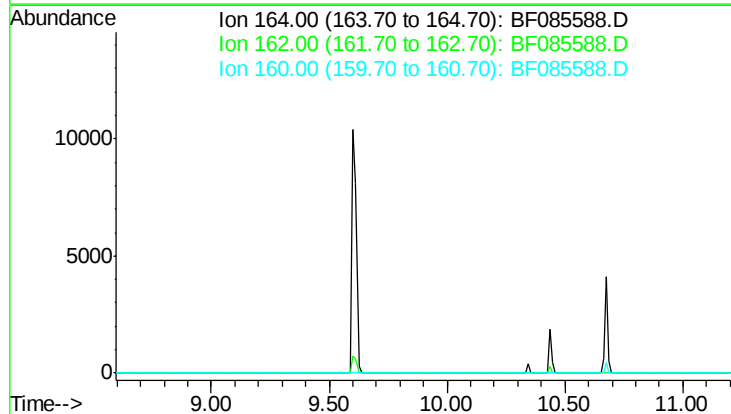
Manual Integrations
 APPROVED

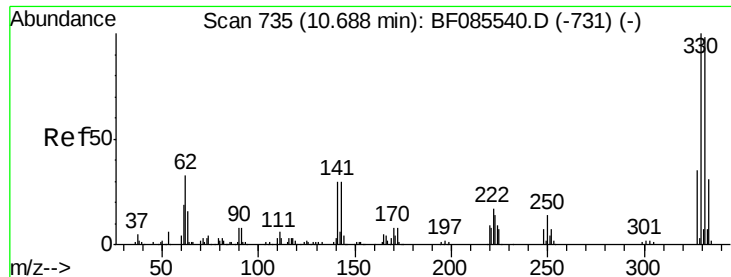
apatel
 3/21/2016 5:09:27 PM



#38
 Acenaphthene-d10
 Concen: 0.00 ng
 Expected RT: 9.90 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Tgt Ion	Sig	Exp Ratio
164	100	
162	102.6	
160	46.8	





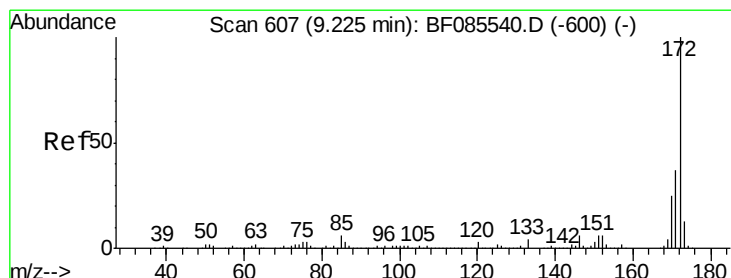
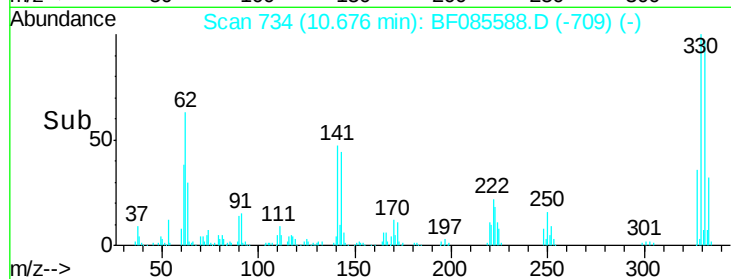
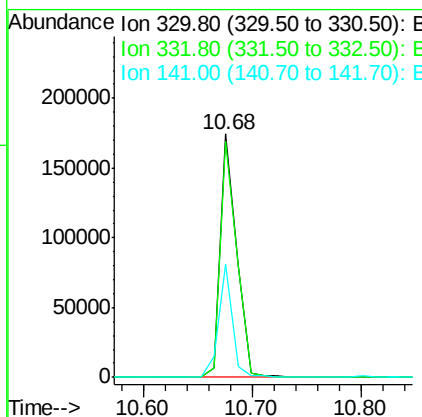
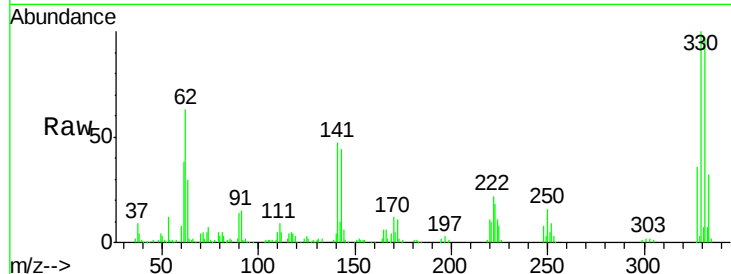
#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 RT: 10.68 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Instrument :
 BNA_F
 ClientSampleId :
 SP-01RE

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	182720		
332	97.9	78.2	117.2	
141	40.6	31.5	47.3	

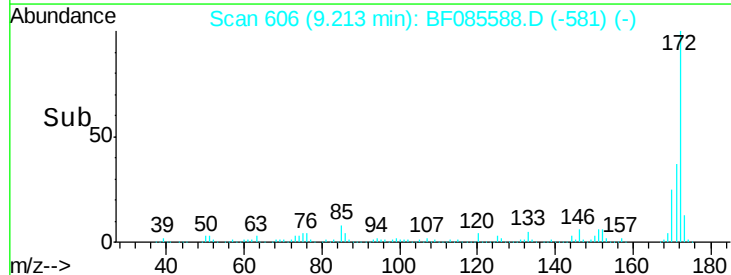
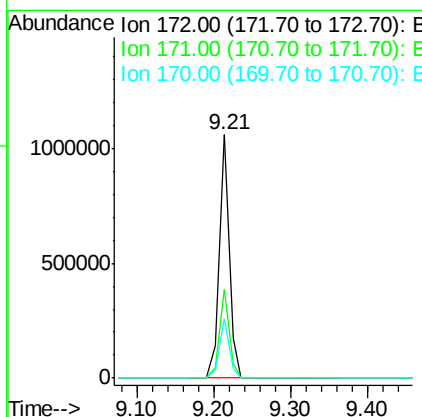
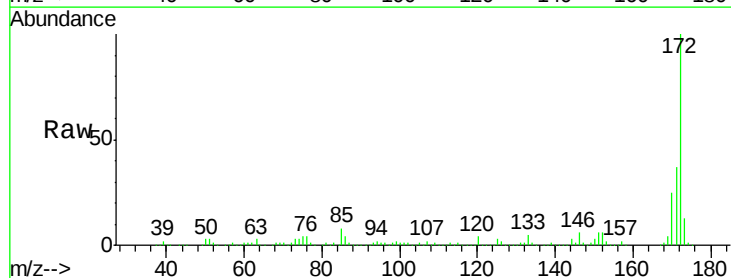
Manual Integrations
 APPROVED

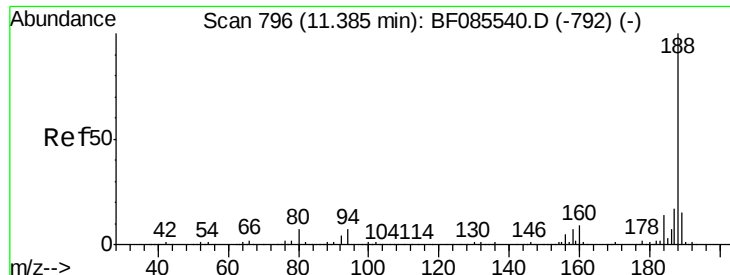
apatel
 3/21/2016 5:09:27 PM



#44
 2-Fluorobiphenyl
 Concen: 0.00 ng
 RT: 9.21 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	955793		
171	36.5	29.4	44.2	
170	24.6	19.8	29.6	





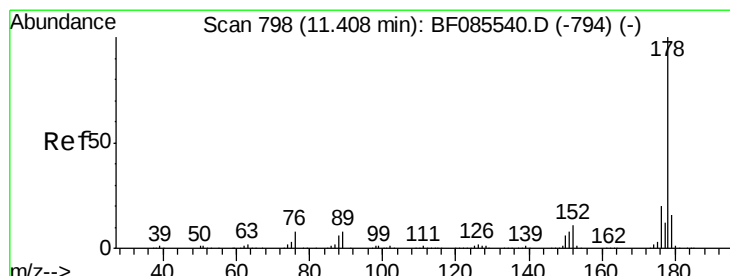
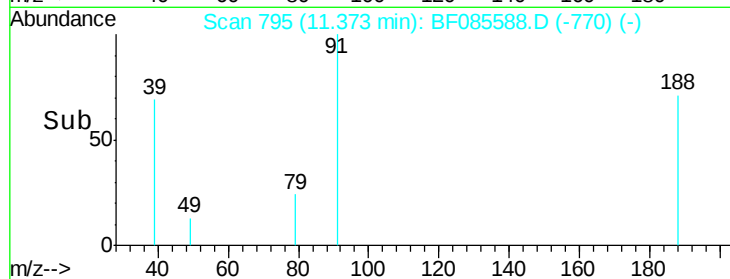
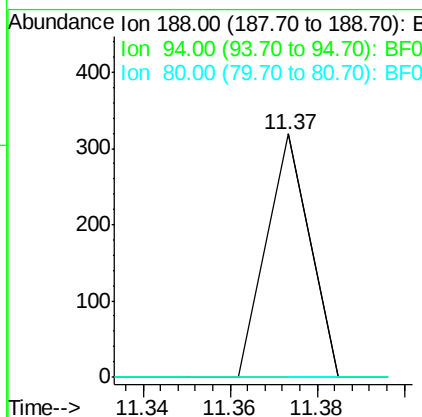
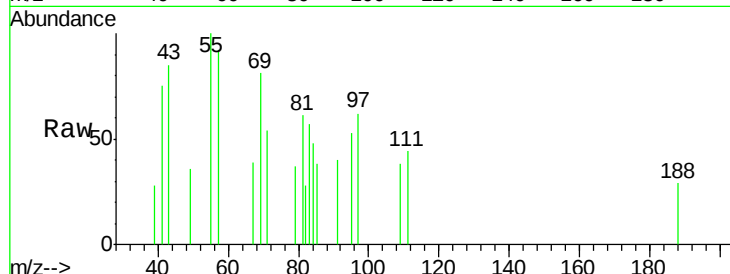
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 795
Delta R.T. -0.01 min
Lab File: BF085588.D
Acq: 19 Mar 2016 22:19

Instrument :
BNA_F
ClientSampleId :
SP-01RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		219
94	0.0	5.4	8.0#
80	0.0	5.5	8.3#

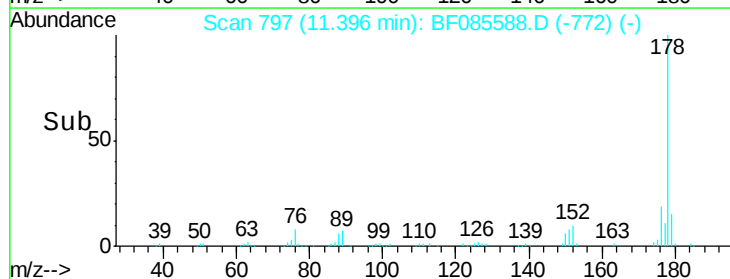
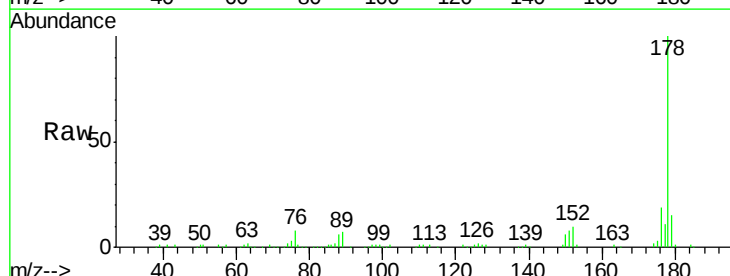
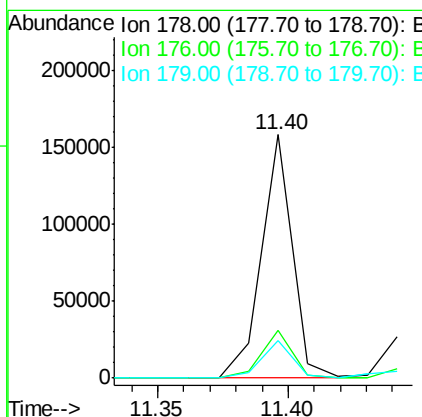
Manual Integrations
APPROVED

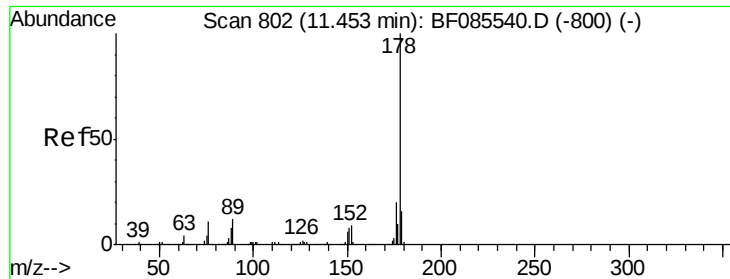
apatel
3/21/2016 5:09:27 PM



#70
Phenanthrene
Concen: 11413.06 ng
RT: 11.40 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF085588.D
Acq: 19 Mar 2016 22:19

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		131791
176	19.4	16.3	24.5
179	15.5	12.6	18.8





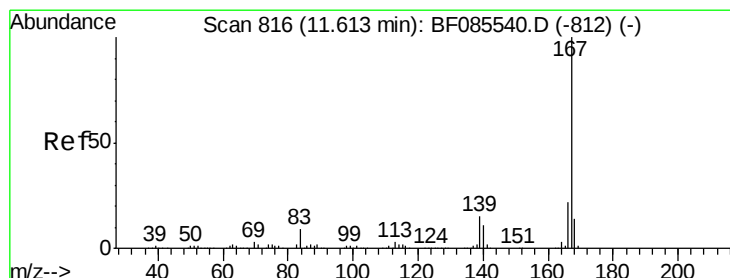
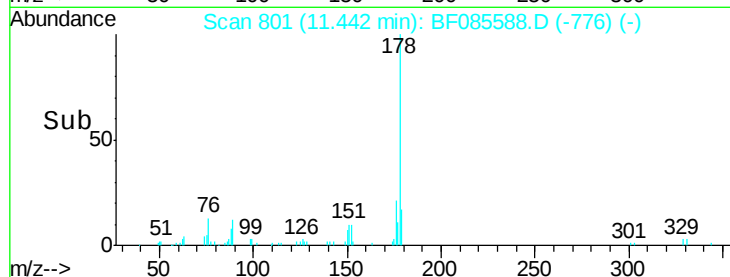
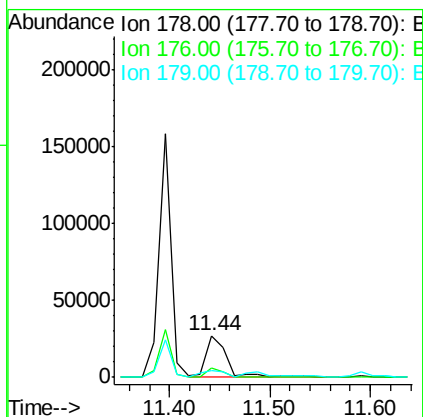
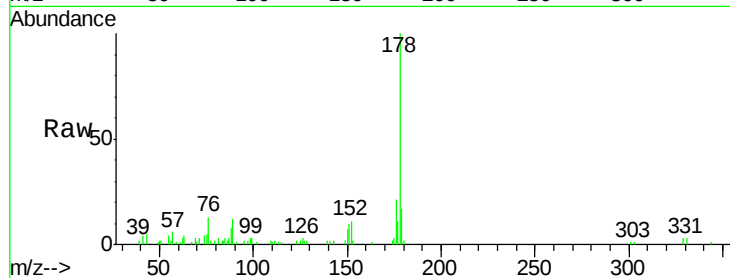
#71
 Anthracene
 Concen: 3099.58 ng
 RT: 11.44 min Scan# 801
 Delta R.T. -0.01 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Instrument :
 BNA_F
 ClientSampleId :
 SP-01RE

Tgt Ion	Ratio	Lower	Upper
178	100		
176	21.1	15.9	23.9
179	17.3	13.0	19.4

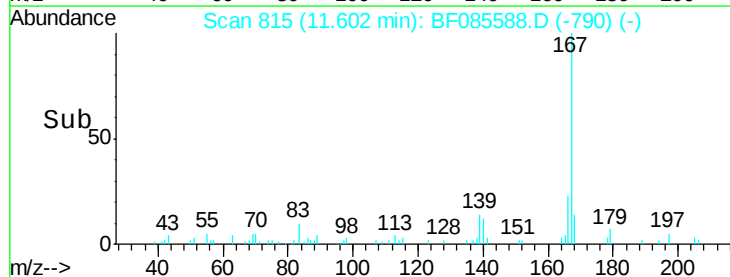
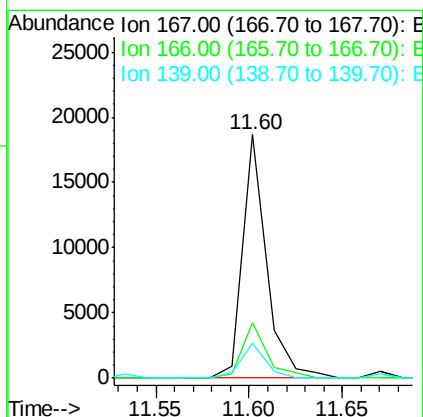
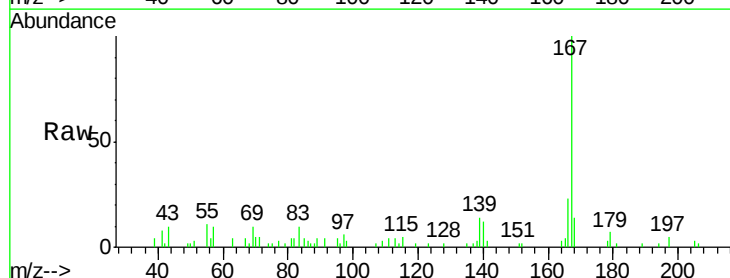
Manual Integrations
 APPROVED

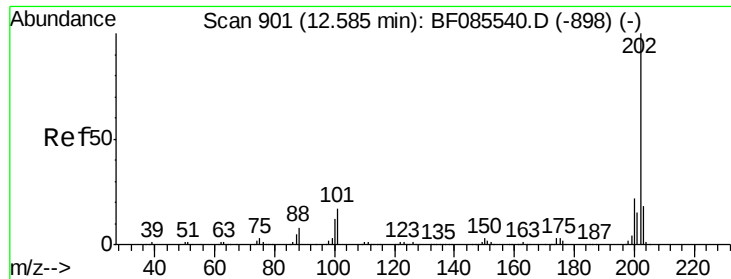
apatel
 3/21/2016 5:09:27 PM



#72
 Carbazole
 Concen: 1605.76 ng
 RT: 11.60 min Scan# 815
 Delta R.T. -0.01 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.8	17.8	26.8
139	14.5	11.6	17.4





#74

Fluoranthene

Concen: 17323.35 ng

RT: 12.58 min Scan# 901

Delta R.T. 0.00 min

Lab File: BF085588.D

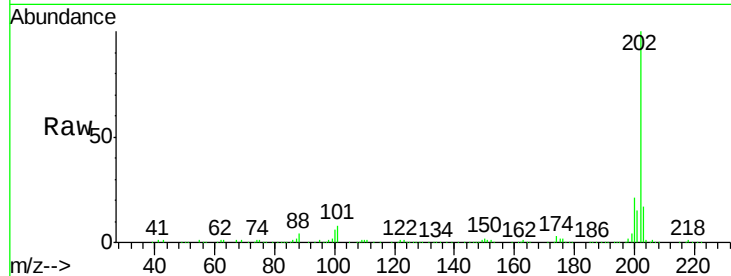
Acq: 19 Mar 2016 22:19

Instrument :

BNA_F

ClientSampled :

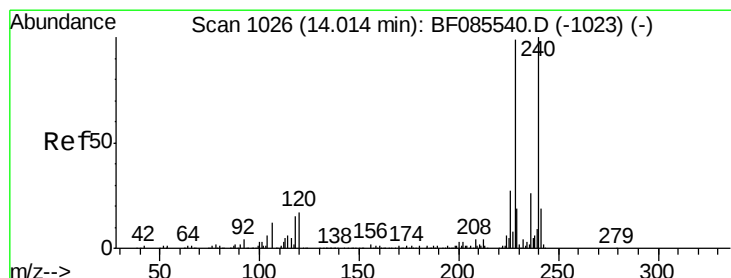
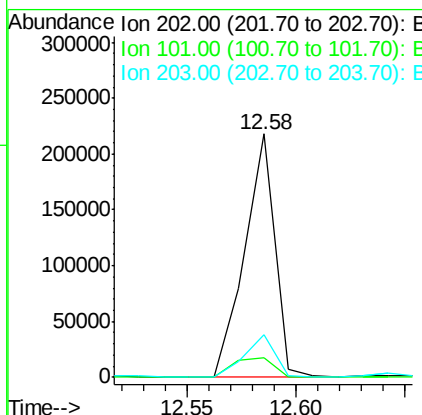
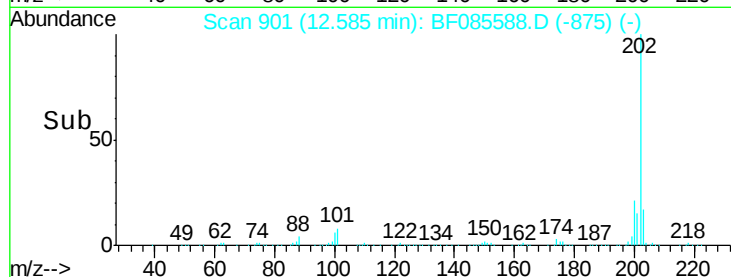
SP-01RE



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	209456		
101	8.2	0.0	36.6	
203	17.4	0.0	38.1	

Manual Integrations
APPROVED

apatel
3/21/2016 5:09:27 PM



#75

Chrysene-d12

Concen: 20.00 ng

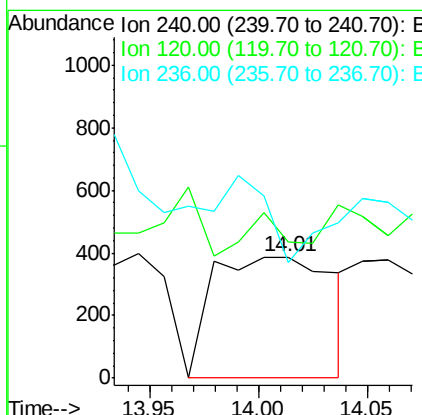
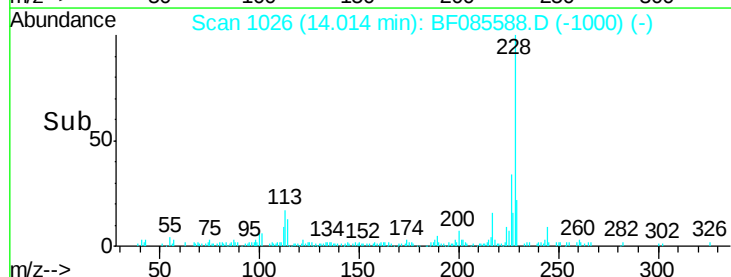
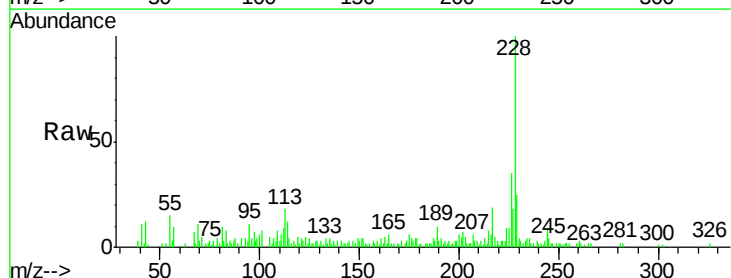
RT: 14.01 min Scan# 1026

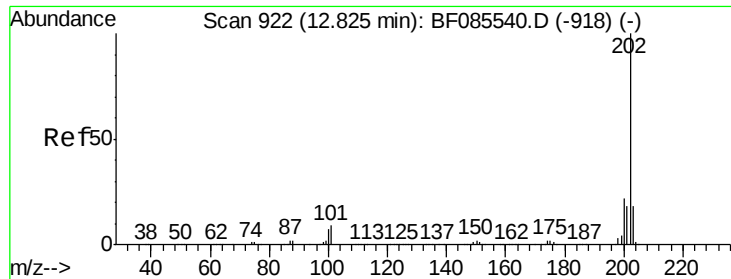
Delta R.T. 0.00 min

Lab File: BF085588.D

Acq: 19 Mar 2016 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	1488		
120	112.7	13.8	20.8#	
236	95.9	20.6	30.8#	





#77

Pyrene

Concen: 1716.89 ng

RT: 12.81 min Scan# 921

Delta R.T. -0.01 min

Lab File: BF085588.D

Acq: 19 Mar 2016 22:19

Instrument :

BNA_F

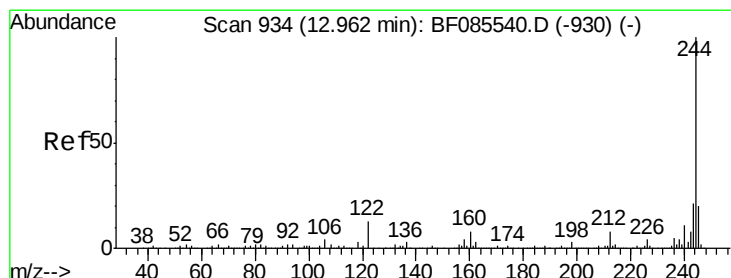
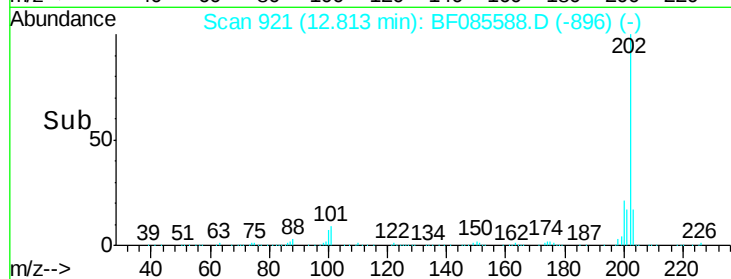
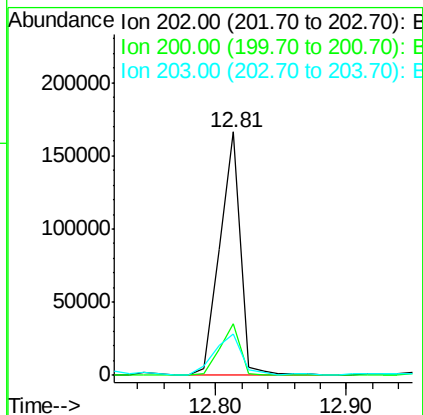
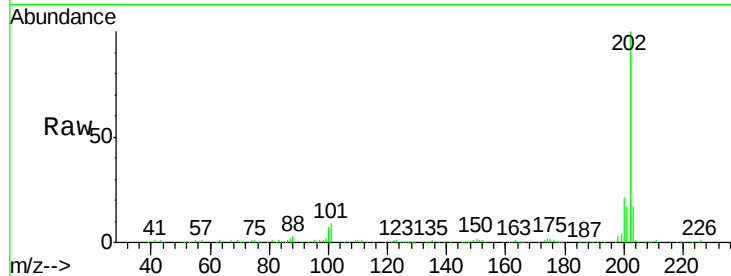
ClientSampleId :

SP-01RE

Tgt Ion:	202	Resp:	183434
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.6	26.4
203	17.1	14.0	21.0

Manual Integrations
APPROVED

apatel
3/21/2016 5:09:27 PM



#78

Terphenyl-d14

Concen: 12099.05 ng

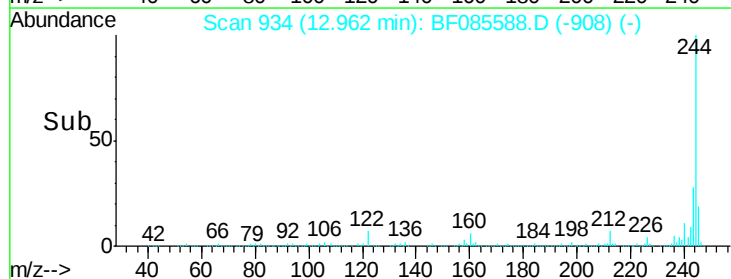
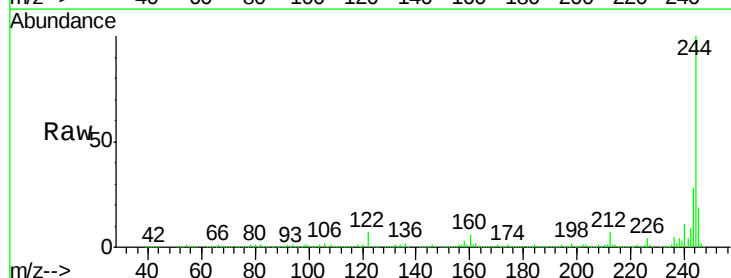
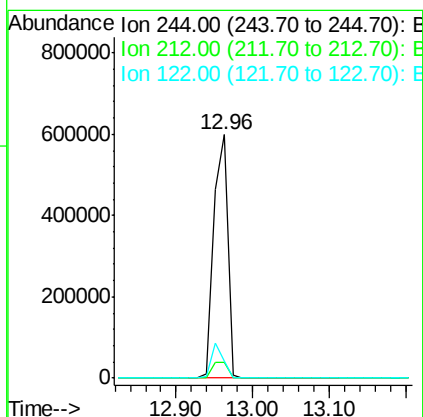
RT: 12.96 min Scan# 934

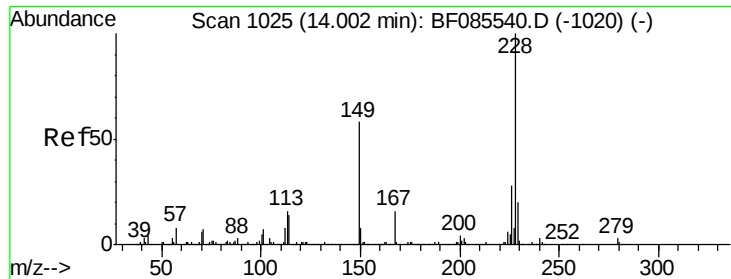
Delta R.T. 0.00 min

Lab File: BF085588.D

Acq: 19 Mar 2016 22:19

Tgt Ion:	244	Resp:	748157
Ion Ratio	Lower	Upper	
244	100		
212	6.6	6.1	9.1
122	7.1	10.2	15.4#





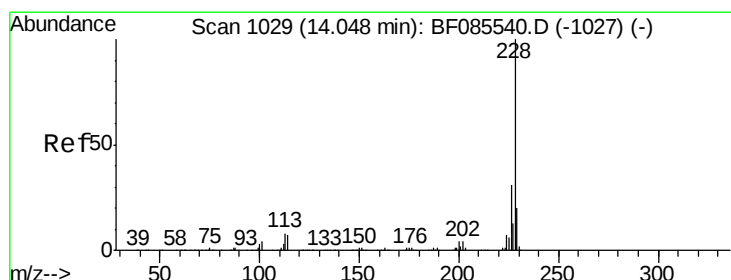
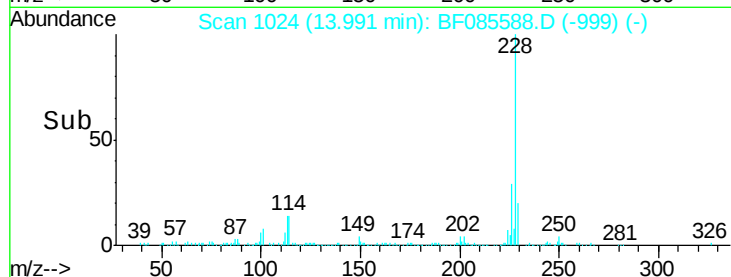
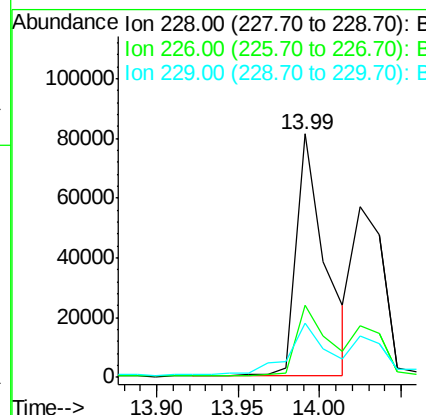
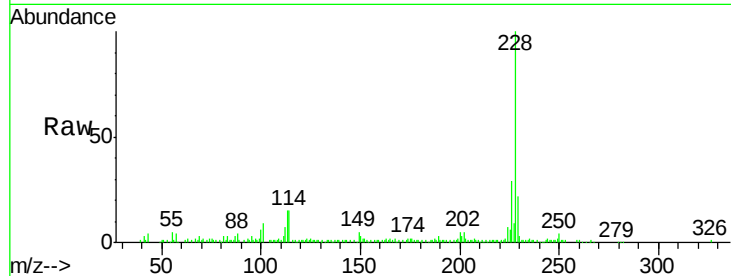
#80
Benzo(a)anthracene
Concen: 1176.84 ng
RT: 13.99 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BF085588.D
Acq: 19 Mar 2016 22:19

Instrument :
BNA_F
ClientSampled :
SP-01RE

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.1	33.1
229	22.1	16.2	24.4

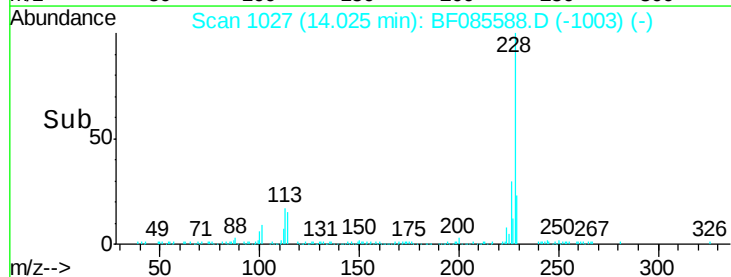
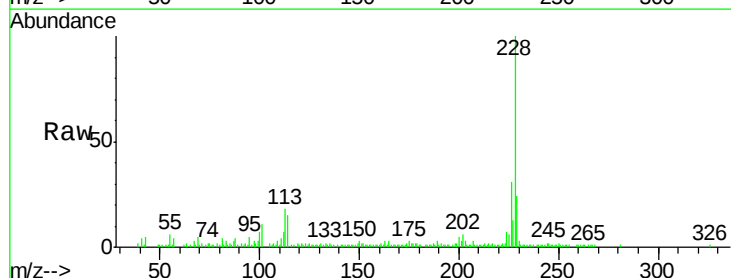
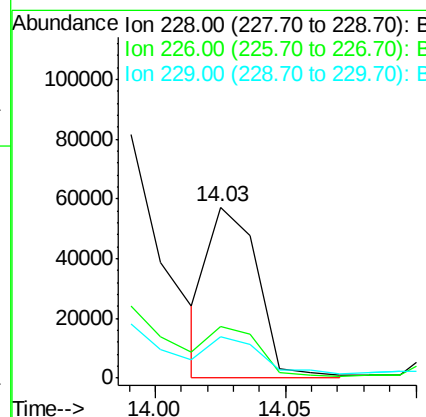
Manual Integrations
APPROVED

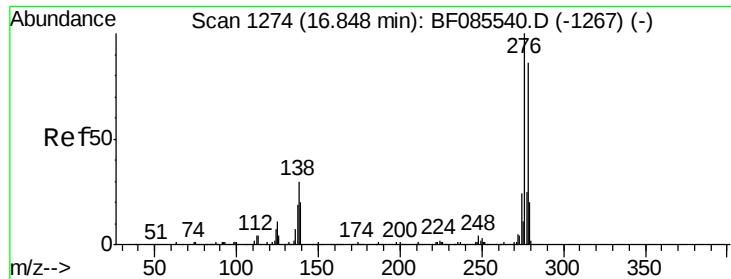
apatel
3/21/2016 5:09:27 PM



#82
Chrysene
Concen: 914.92 ng m
RT: 14.03 min Scan# 1027
Delta R.T. -0.02 min
Lab File: BF085588.D
Acq: 19 Mar 2016 22:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	24.3	15.7	23.5





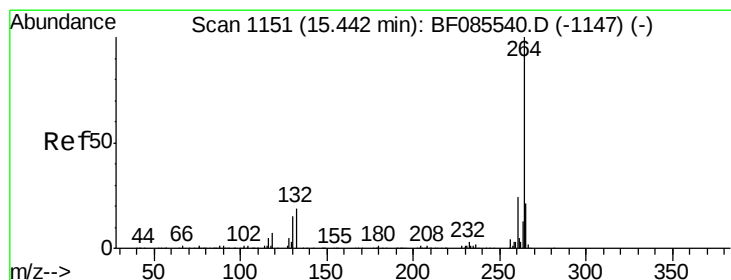
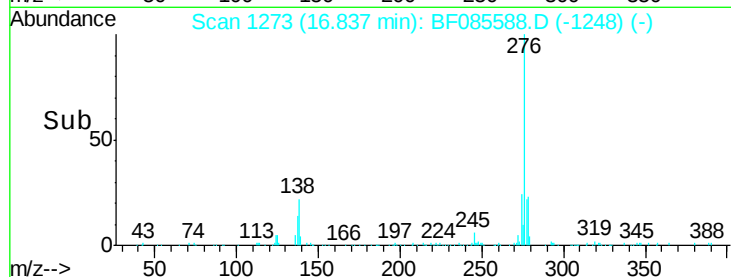
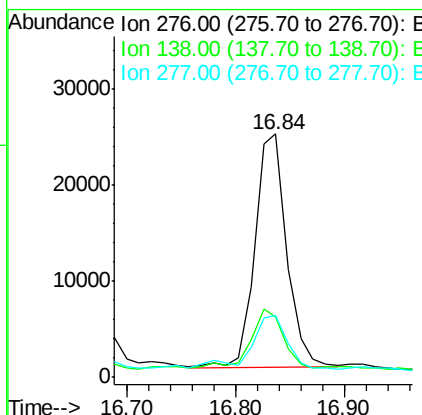
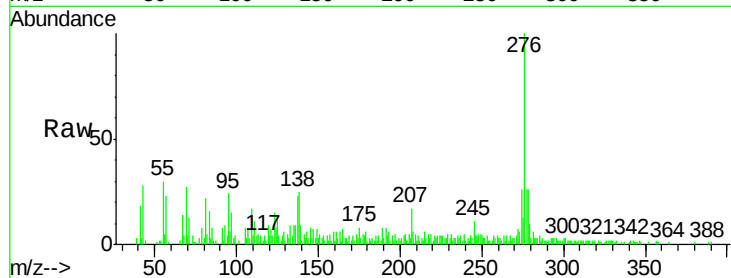
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 713.17 ng
 RT: 16.84 min Scan# 1273
 Delta R.T. -0.01 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Instrument :
 BNA_F
 ClientSampleId :
 SP-01RE

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.2	24.2	36.4
277	28.1	20.0	30.0

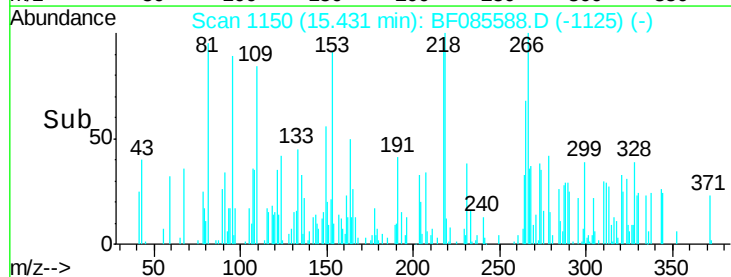
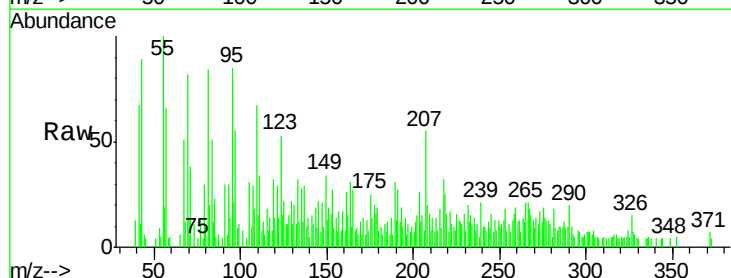
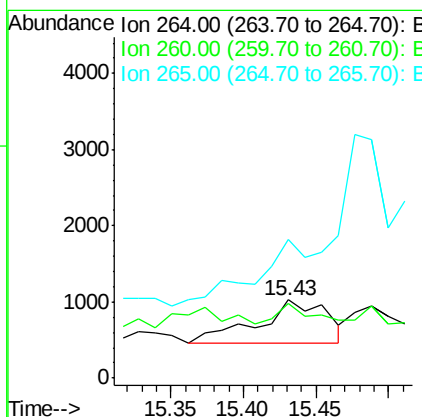
Manual Integrations
 APPROVED

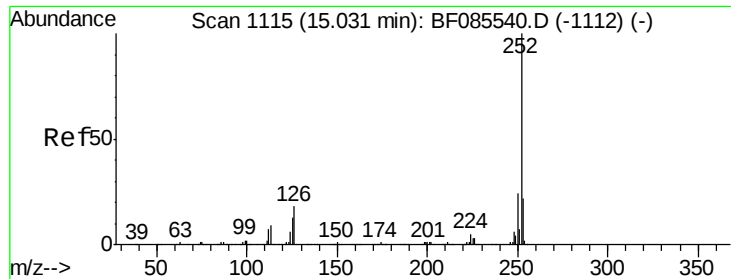
apatel
 3/21/2016 5:09:27 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.43 min Scan# 1150
 Delta R.T. -0.01 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	95.7	19.4	29.2#
265	177.8	17.2	25.8#





#87

Benzo(b)fluoranthene

Concen: 1078.73 ng m

RT: 15.03 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BF085588.D

Acq: 19 Mar 2016 22:19

Instrument :

BNA_F

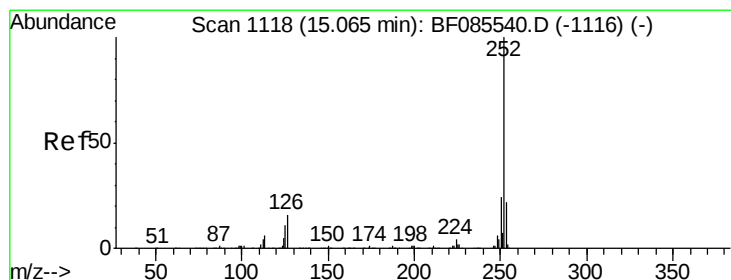
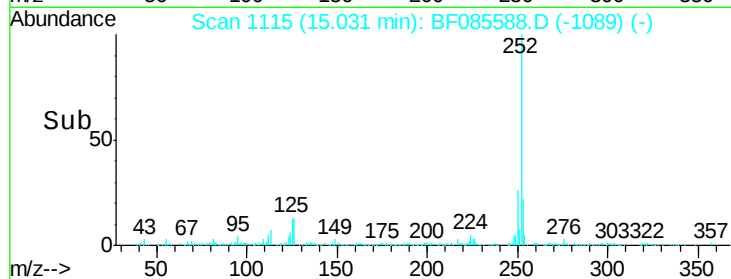
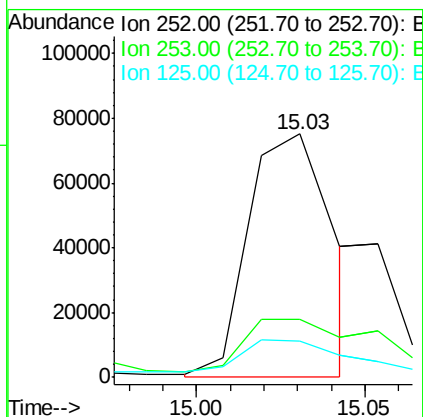
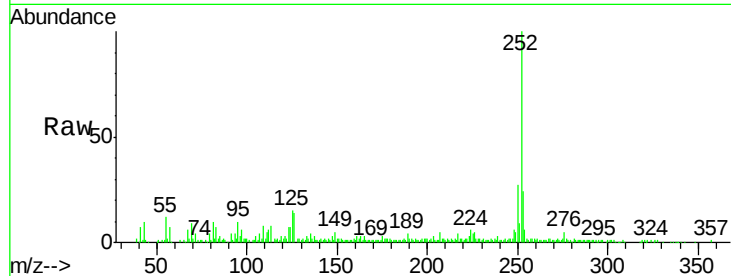
ClientSampleId :

SP-01RE

Tgt Ion:	252	Resp:	130286
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.6	26.4
125	14.8	10.3	15.5

Manual Integrations
APPROVED

apatel
3/21/2016 5:09:27 PM



#88

Benzo(k)fluoranthene

Concen: 362.45 ng m

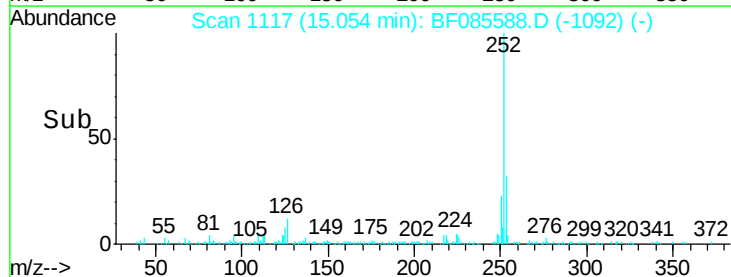
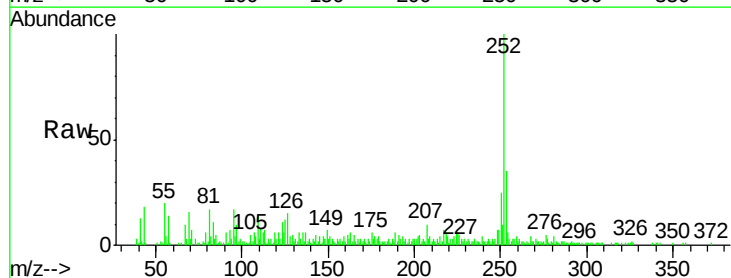
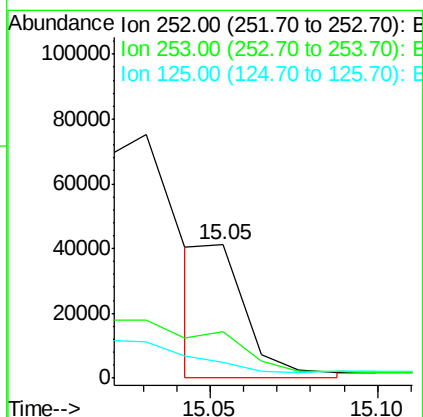
RT: 15.05 min Scan# 1117

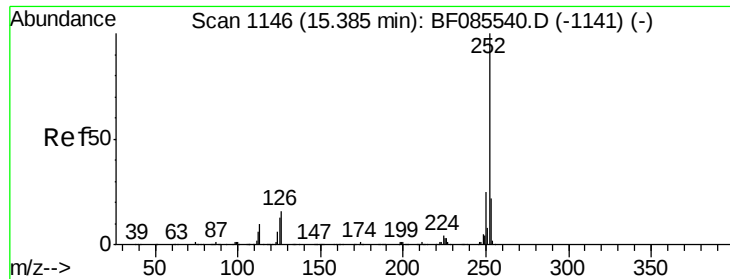
Delta R.T. -0.01 min

Lab File: BF085588.D

Acq: 19 Mar 2016 22:19

Tgt Ion:	252	Resp:	36066
Ion Ratio	Lower	Upper	
252	100		
253	35.2	17.8	26.6#
125	11.9	7.7	11.5#





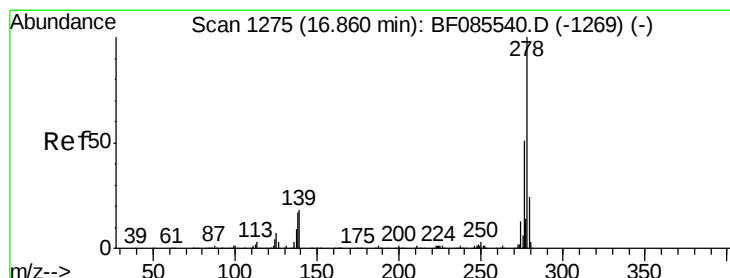
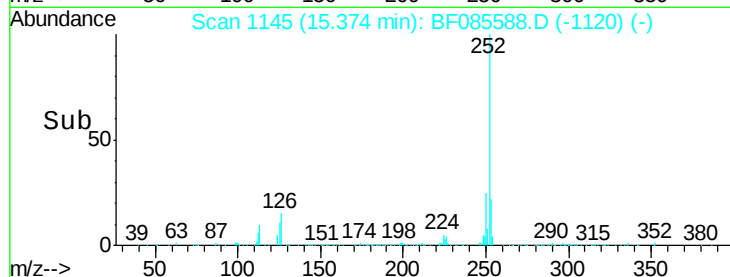
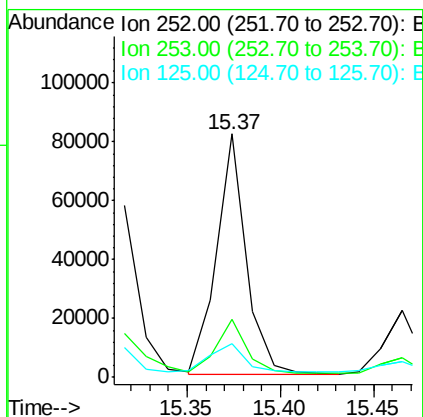
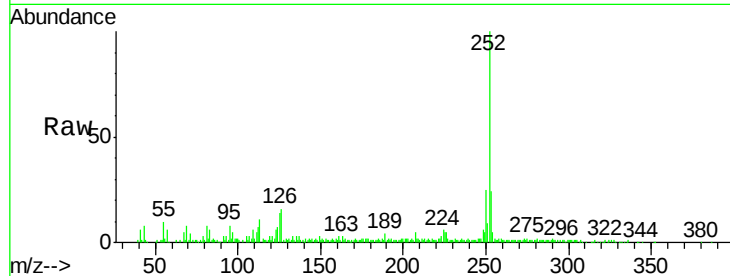
#89
Benzo(a)pyrene
Concen: 888.61 ng
RT: 15.37 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF085588.D
Acq: 19 Mar 2016 22:19

Instrument :
BNA_F
ClientSampled :
SP-01RE

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	90986		
253	23.9		17.4	26.0
125	13.8		10.3	15.5

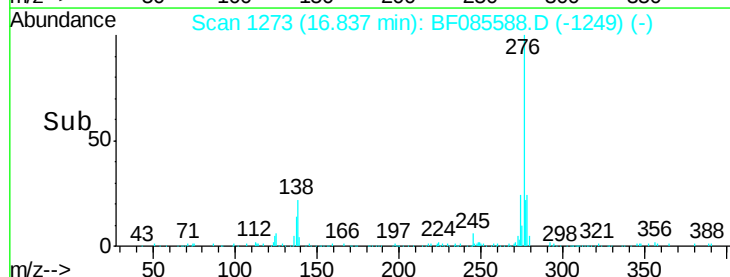
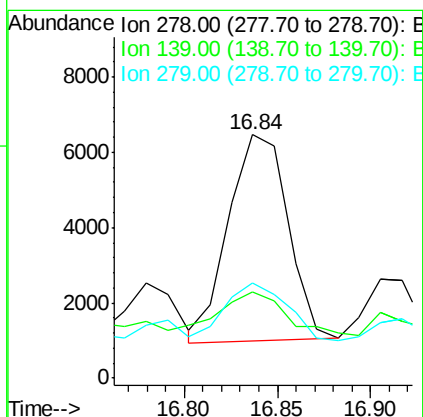
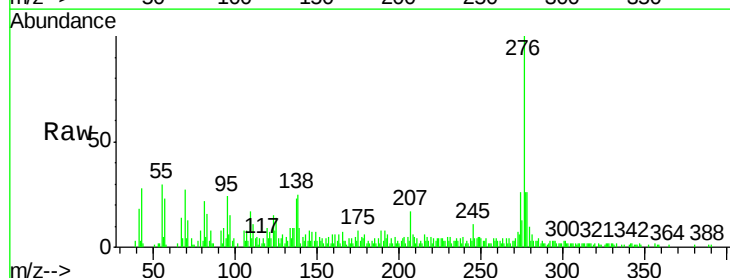
Manual Integrations
APPROVED

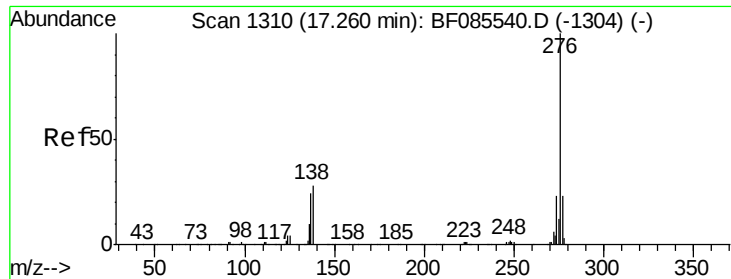
apatel
3/21/2016 5:09:27 PM



#90
Dibenzo(a,h)anthracene
Concen: 142.59 ng
RT: 16.84 min Scan# 1273
Delta R.T. -0.02 min
Lab File: BF085588.D
Acq: 19 Mar 2016 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	12177		
139	35.2		14.4	21.6#
279	39.0		19.1	28.7#





#91
 Benzo(g,h,i)perylene
 Concen: 608.11 ng
 RT: 17.25 min Scan# 1309
 Delta R.T. -0.01 min
 Lab File: BF085588.D
 Acq: 19 Mar 2016 22:19

Instrument :
 BNA_F
 ClientSampleId :
 SP-01RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	26.9	18.8	28.2
138	33.1	22.6	34.0

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:09:27 PM

