

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020916\
 Data File : BF084979.D
 Acq On : 10 Feb 2016 3:50
 Operator : SJ/IZ
 Sample : H1361-02 2X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1

Manual Integrations
 APPROVED

Sohil
 2/10/2016 1:45:16 PM

Quant Time: Feb 10 06:05:27 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	159895	20.00	ng	-0.05
21) Naphthalene-d8	7.92	136	597740	20.00	ng	-0.06
38) Acenaphthene-d10	9.66	164	247051	20.00	ng	-0.07
63) Phenanthrene-d10	11.15	188	396691	20.00	ng	-0.06
75) Chrysene-d12	13.79	240	268415	20.00	ng	-0.05
86) Perylene-d12	15.15	264	267855	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	758925	73.93	ng	-0.06
7) Phenol-d6	6.28	99	869778	68.35	ng	-0.06
23) Nitrobenzene-d5	7.21	82	627870	59.17	ng	-0.06
41) 2,4,6-Tribromophenol	10.45	330	159651	61.95	ng	-0.07
44) 2-Fluorobiphenyl	9.00	172	921813	56.23	ng	-0.06
78) Terphenyl-d14	12.74	244	531162	44.84	ng	-0.06
Target Compounds						Qvalue
31) Naphthalene	7.94	128	175622	5.86	ng	98
37) 2-Methylnaphthalene	8.64	142	51475	2.74	ng	95
49) Dimethylphthalate	9.40	163	176443	9.38	ng	# 90
51) Acenaphthene	9.70	154	225618	14.06	ng	97
54) Dibenzofuran	9.87	168	146311	7.46	ng	96
57) Fluorene	10.21	166	196080	11.98	ng	99
70) Phenanthrene	11.17	178	1720879	78.21	ng	97
71) Anthracene	11.22	178	929069	41.91	ng	99
74) Fluoranthene	12.37	202	4071898	182.85	ng	96
77) Pyrene	12.60	202	4079644	198.52	ng	93
80) Benzo(a)anthracene	13.78	228	2765166	165.98	ng	94
82) Chrysene	13.83	228	1701571	105.33	ng	95
85) Indeno(1,2,3-cd)pyrene	16.42	276	772021	60.71	ng	92
87) Benzo(b)fluoranthene	14.80	252	2609980m	145.02	ng	
88) Benzo(k)fluoranthene	14.81	252	389616m	26.18	ng	
89) Benzo(a)pyrene	15.11	252	1515759	98.85	ng	# 93
90) Dibenzo(a,h)anthracene	16.42	278	171951m	13.32	ng	
91) Benzo(g,h,i)perylene	16.80	276	659076	50.69	ng	96

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

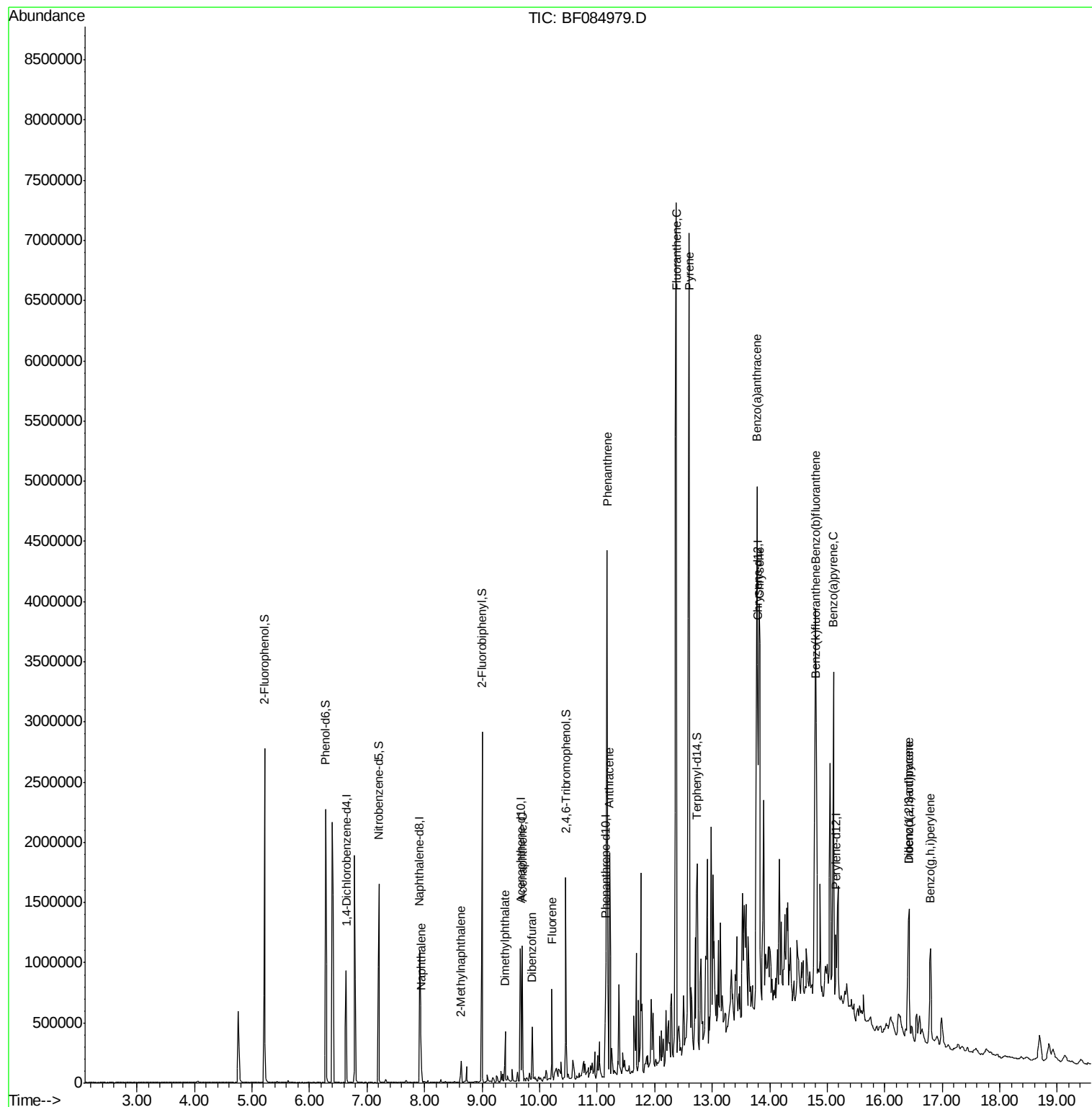
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020916\
Data File : BF084979.D
Acq On : 10 Feb 2016 3:50
Operator : SJ/IZ
Sample : H1361-02 2X
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-1

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM

Quant Time: Feb 10 06:05:27 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 14:16:01 2016
Response via : Initial Calibration





#1

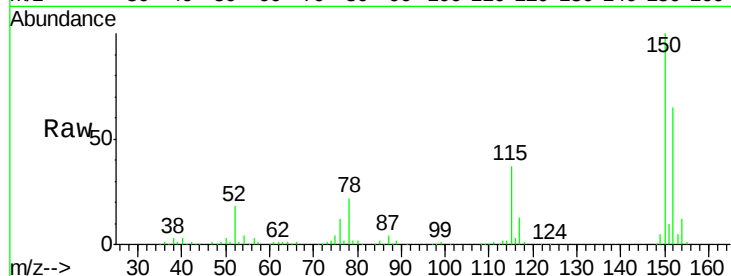
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.64 min Scan# 398
Delta R.T. -0.05 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Instrument :
BNA_F
ClientSampleId :
WC-1

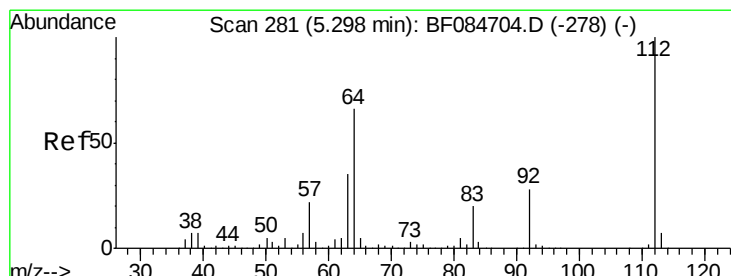
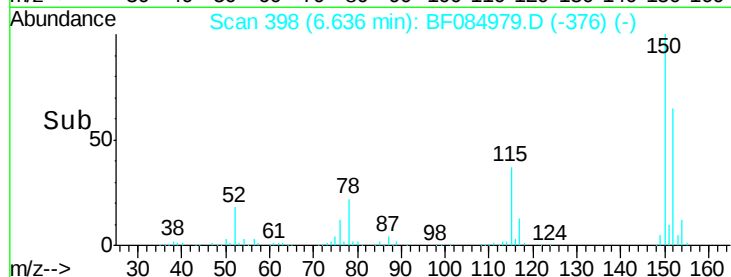
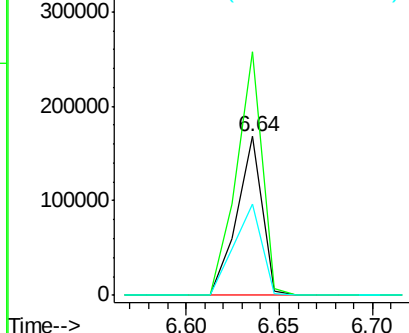
Tot Ion	Ratio	Resp	Lower	Upper
152	100	159895		
150	153.1	123.0	184.4	
115	57.1	51.4	77.2	

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM



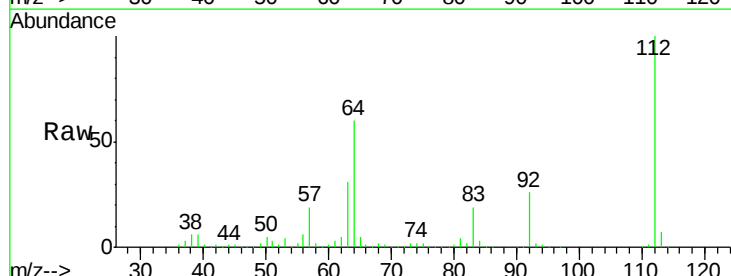
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



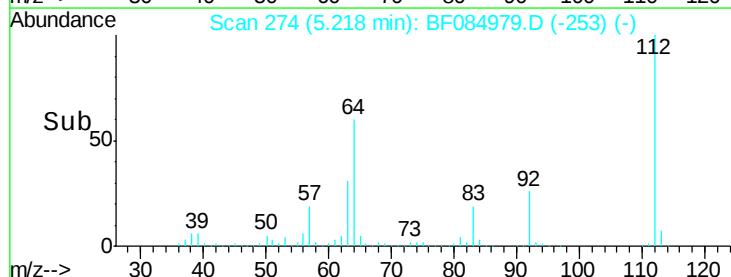
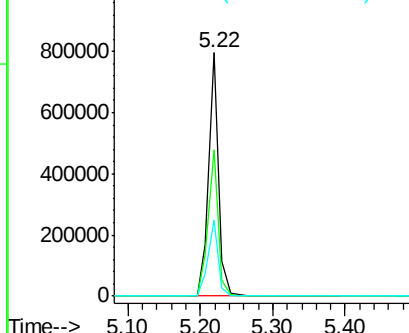
#5

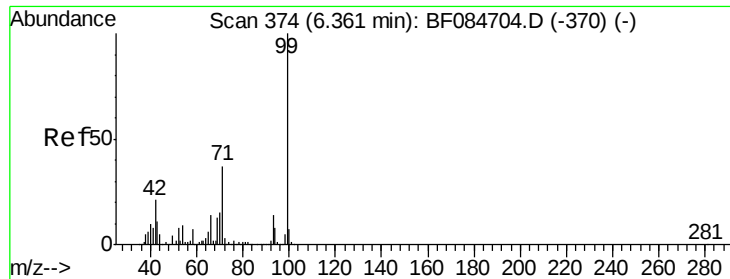
2-Fluorophenol
Concen: 73.93 ng
RT: 5.22 min Scan# 274
Delta R.T. -0.06 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	758925		
64	60.0	36.6	55.0#	
63	31.0	19.4	29.0#	



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: 68.35 ng

RT: 6.28 min Scan# 367

Delta R.T. -0.06 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Instrument :

BNA_F

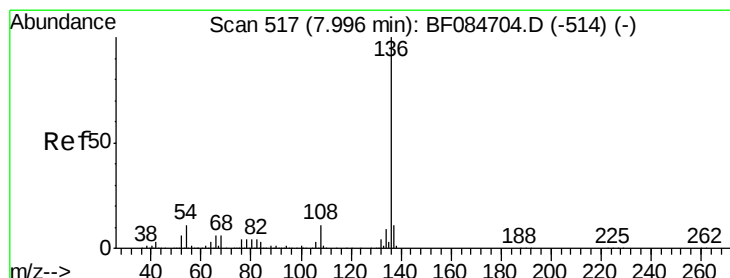
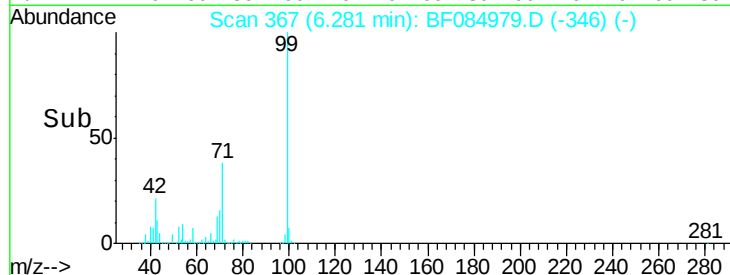
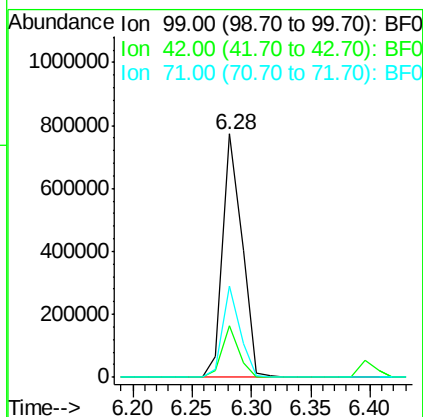
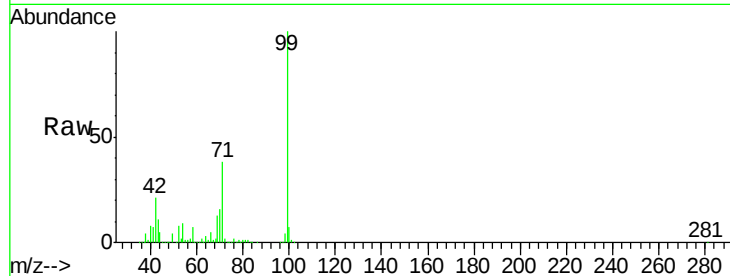
ClientSampled :

WC-1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		869778		
42	21.4	12.8	19.2#		
71	37.6	30.9	46.3		

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM



#21

Naphthalene-d8

Concen: 20.00 ng

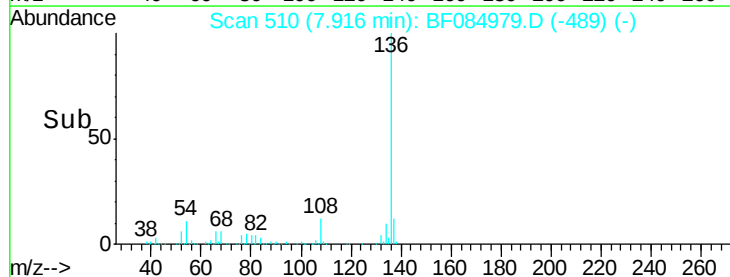
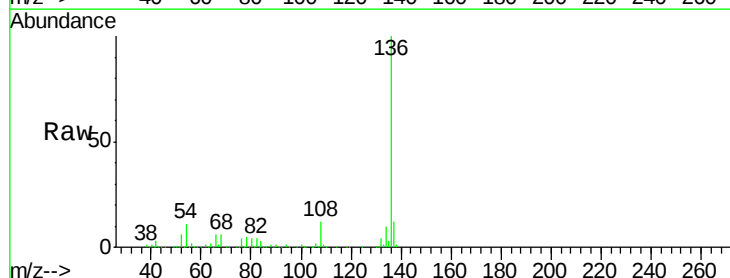
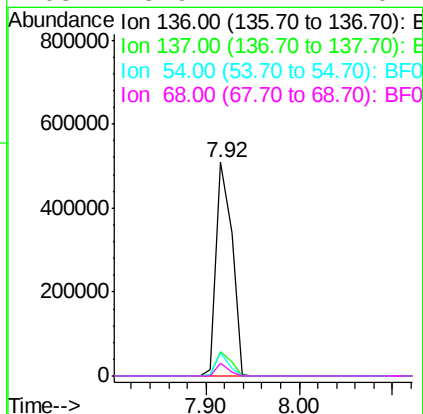
RT: 7.92 min Scan# 510

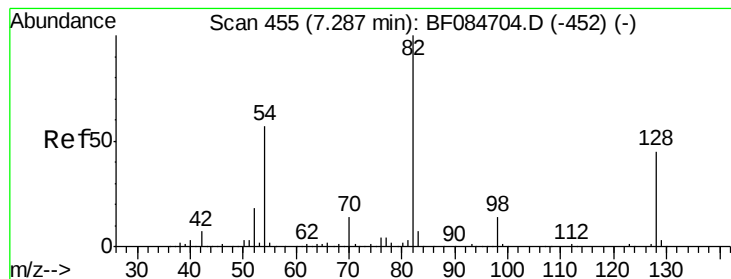
Delta R.T. -0.06 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		597740		
137	11.6	8.7	13.1		
54	11.0	5.8	8.8#		
68	5.9	4.2	6.2		





#23

Nitrobenzene-d5

Concen: 59.17 ng

RT: 7.21 min Scan# 448

Delta R.T. -0.06 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Instrument :

BNA_F

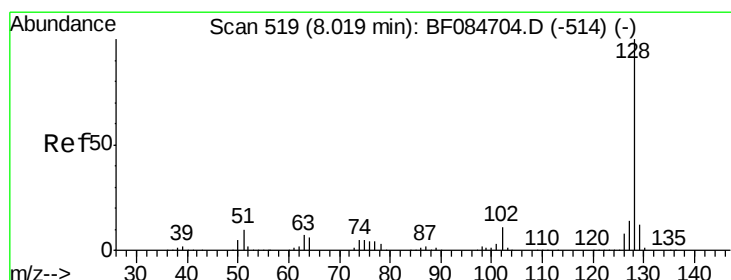
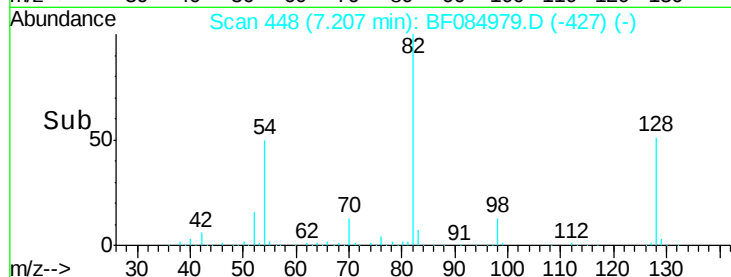
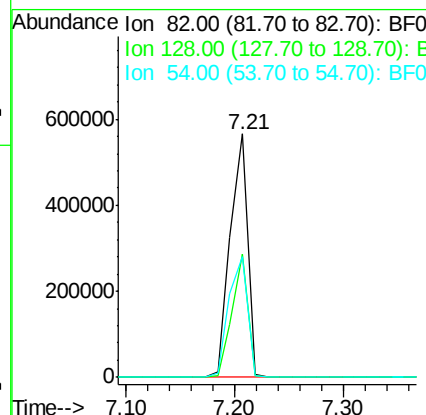
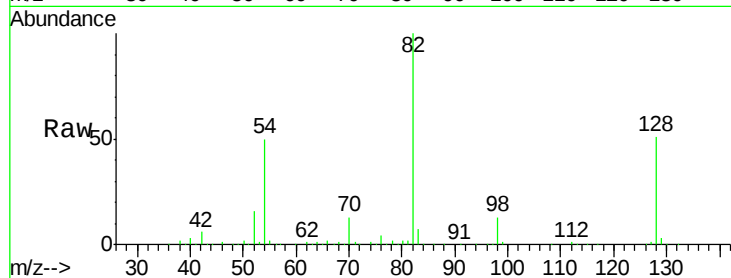
ClientSampled :

WC-1

Tot Ion:	82	Resp:	627870
Ion Ratio	Lower	Upper	
82	100		
128	50.6	34.6	51.8
54	49.7	38.4	57.6

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM



#31

Naphthalene

Concen: 5.86 ng

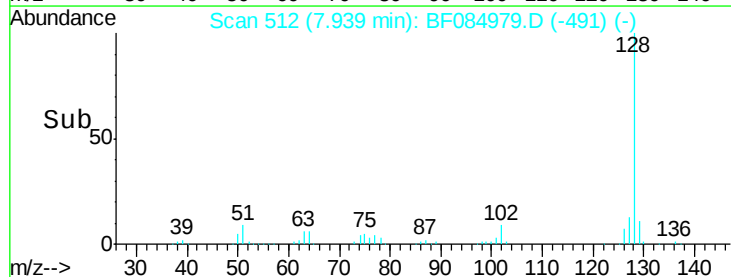
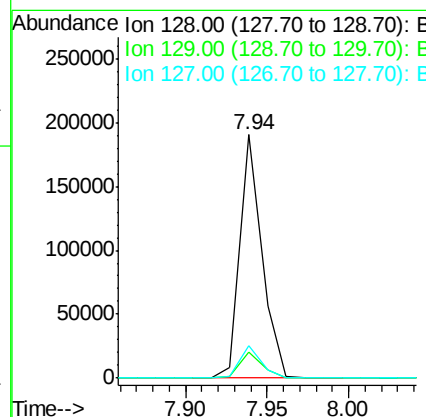
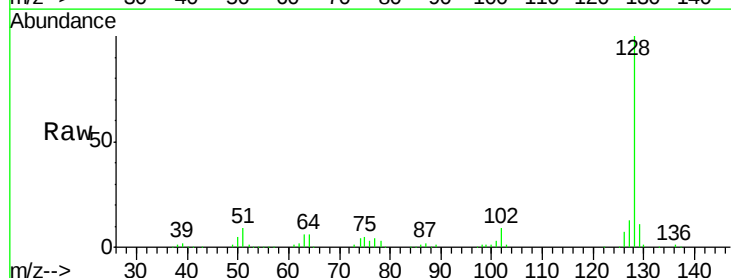
RT: 7.94 min Scan# 512

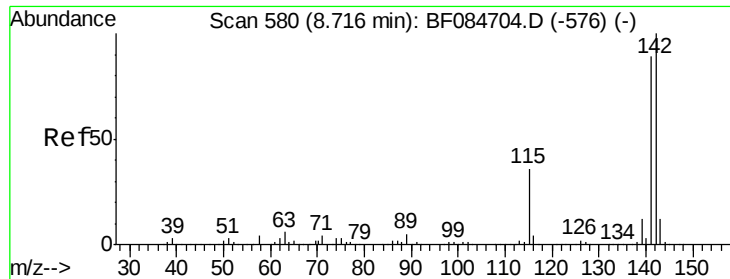
Delta R.T. -0.06 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Tgt Ion:	128	Resp:	175622
Ion Ratio	Lower	Upper	
128	100		
129	10.9	9.1	13.7
127	13.2	11.1	16.7





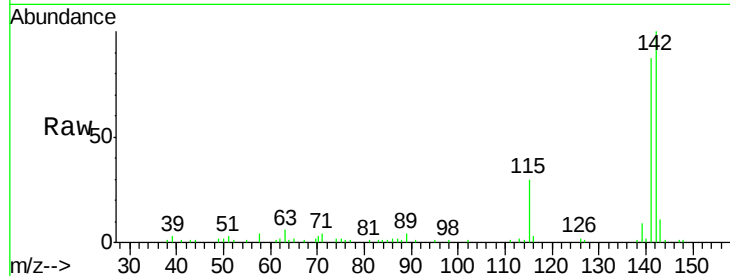
#37
 2-Methylnaphthalene
 Concen: 2.74 ng
 RT: 8.64 min Scan# 573
 Delta R.T. -0.06 min
 Lab File: BF084979.D
 Acq: 10 Feb 2016 3:50

Instrument :
 BNA_F
 ClientSampled :
 WC-1

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.8	72.4	108.6
115	29.9	27.9	41.9

Manual Integrations
 APPROVED

Sohil
 2/10/2016 1:45:16 PM

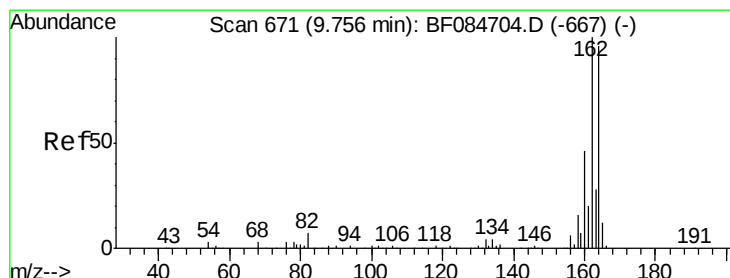
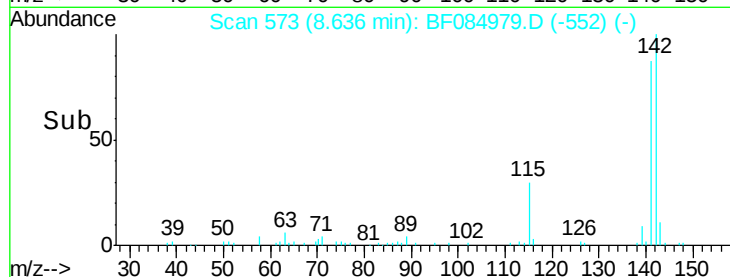
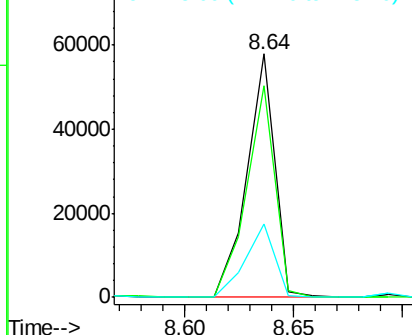


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.66 min Scan# 663
 Delta R.T. -0.07 min
 Lab File: BF084979.D
 Acq: 10 Feb 2016 3:50

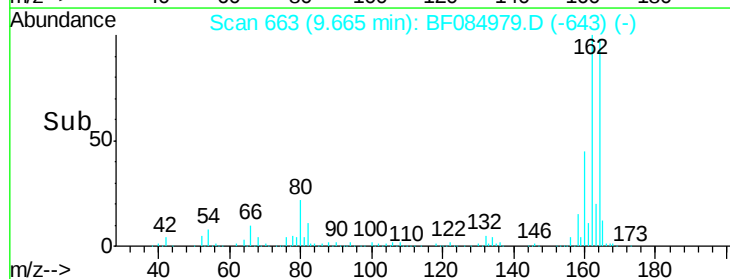
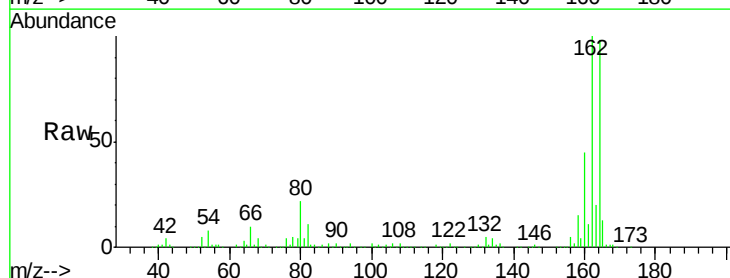
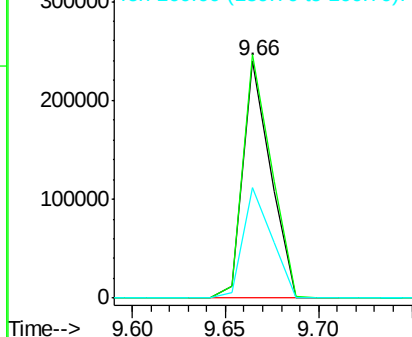
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	85.1	127.7
160	46.4	37.5	56.3

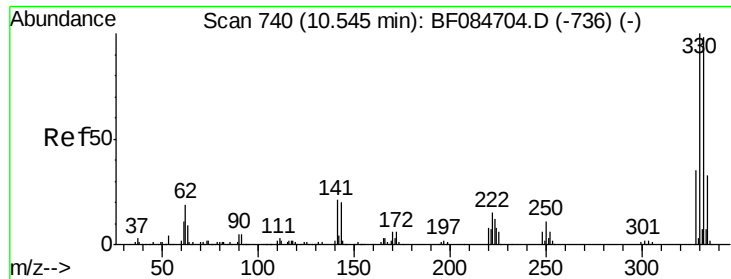
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





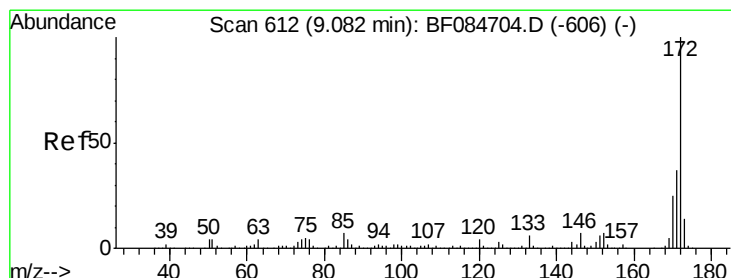
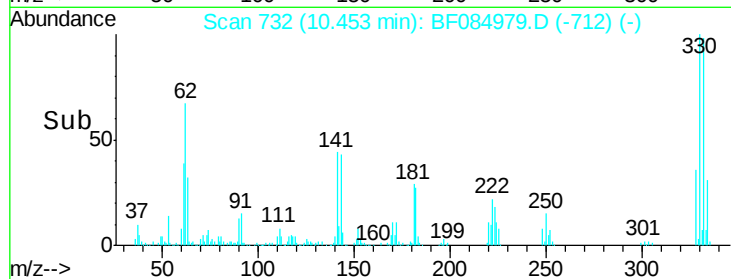
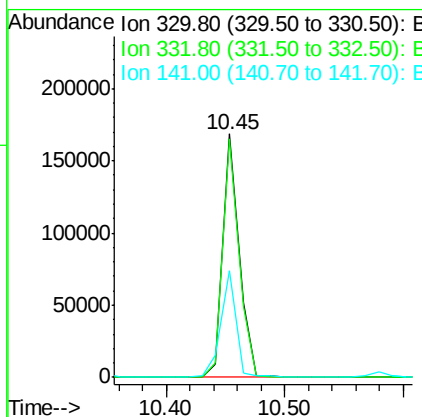
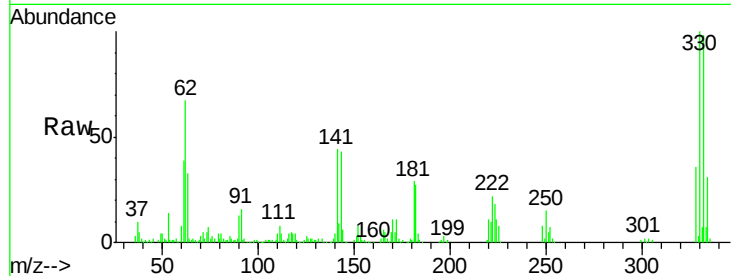
#41
 2,4,6-Tribromophenol
 Concen: 61.95 ng
 RT: 10.45 min Scan# 732
 Delta R.T. -0.07 min
 Lab File: BF084979.D
 Acq: 10 Feb 2016 3:50

Instrument :
 BNA_F
 ClientSampled :
 WC-1

Tot Ion	Ratio	Resp	Lower	Upper
330	100	159651		
332	97.7	76.6	114.8	
141	40.3	27.8	41.6	

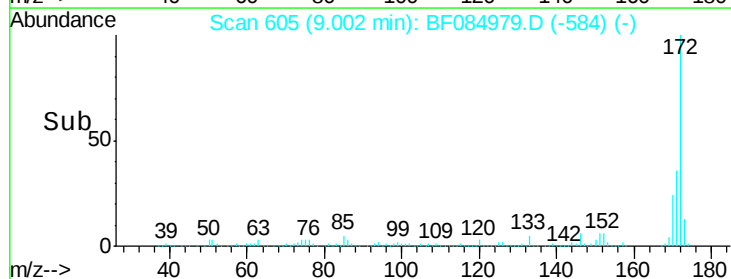
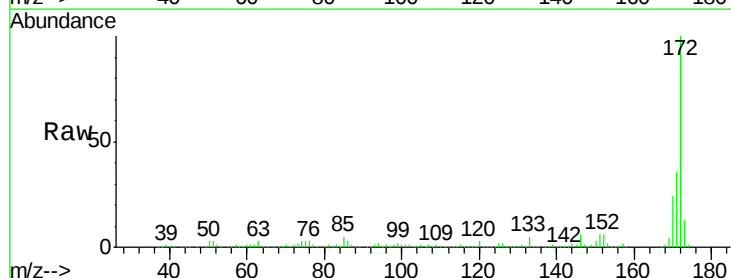
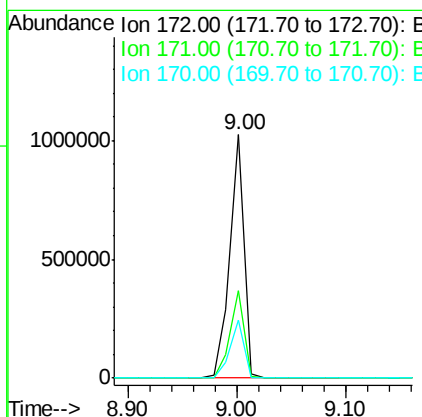
Manual Integrations
 APPROVED

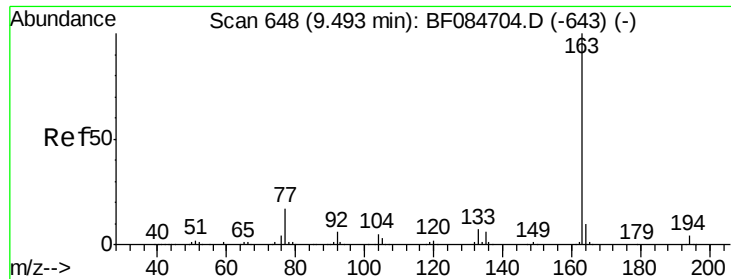
Sohil
 2/10/2016 1:45:16 PM



#44
 2-Fluorobiphenyl
 Concen: 56.23 ng
 RT: 9.00 min Scan# 605
 Delta R.T. -0.06 min
 Lab File: BF084979.D
 Acq: 10 Feb 2016 3:50

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	921813		
171	35.9	28.9	43.3	
170	24.1	18.6	27.8	





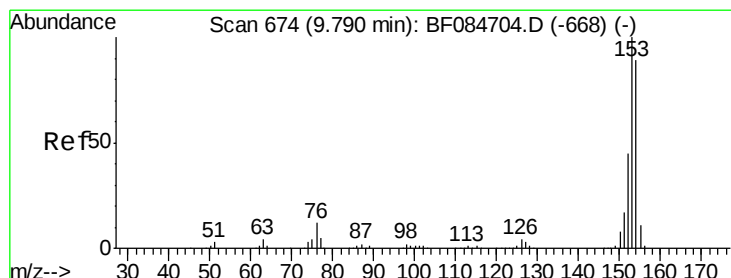
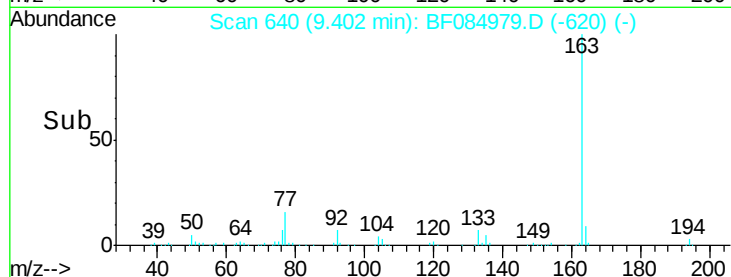
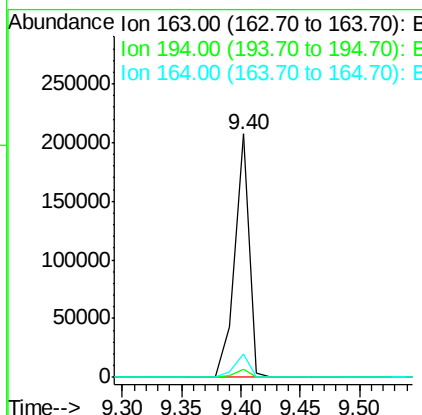
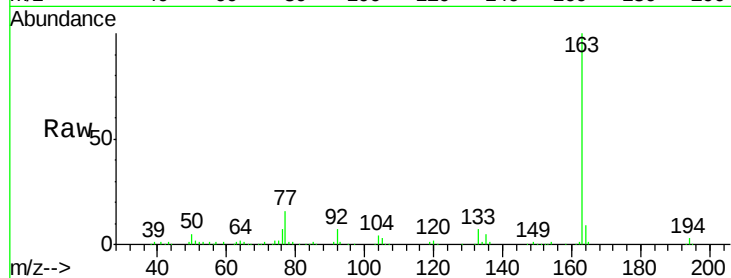
#49
Dimethylphthalate
Concen: 9.38 ng
RT: 9.40 min Scan# 640
Delta R.T. -0.07 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Instrument :
BNA_F
ClientSampled :
WC-1

Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	3.4	8.0	12.0#
164	9.5	8.0	12.0

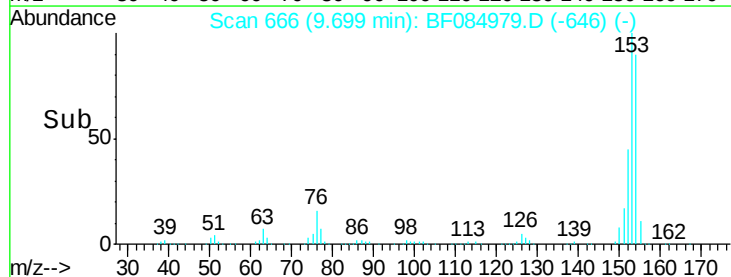
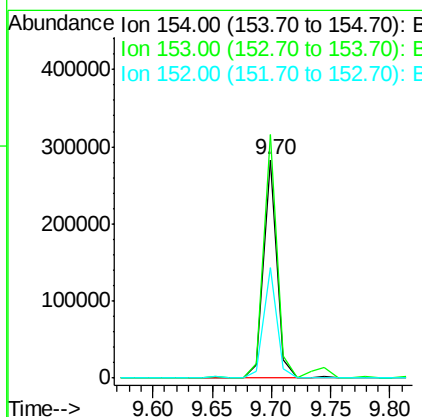
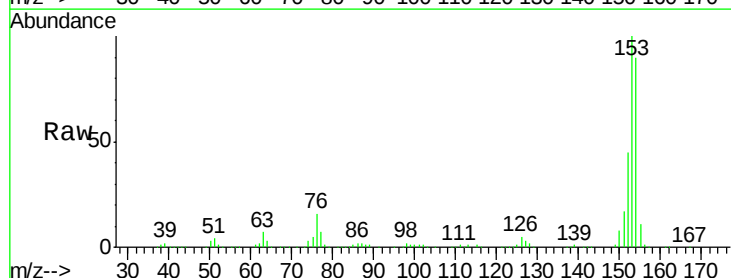
Manual Integrations
APPROVED

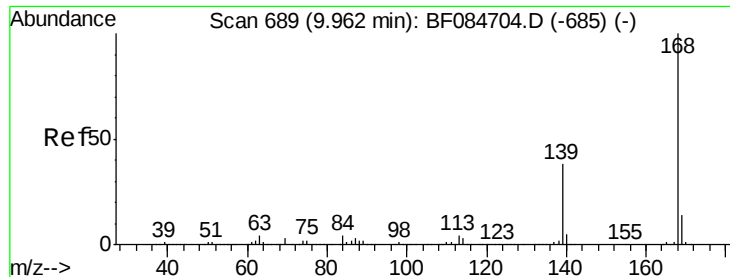
Sohil
2/10/2016 1:45:16 PM



#51
Acenaphthene
Concen: 14.06 ng
RT: 9.70 min Scan# 666
Delta R.T. -0.07 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	111.4	91.5	137.3
152	50.4	43.0	64.6





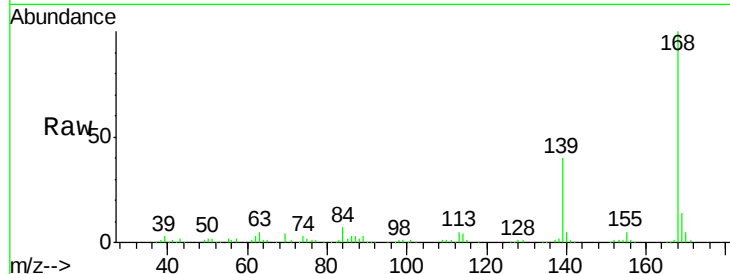
#54
Dibenzenofuran
Concen: 7.46 ng
RT: 9.87 min Scan# 681
Delta R.T. -0.07 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Instrument :
BNA_F
ClientSampleId :
WC-1

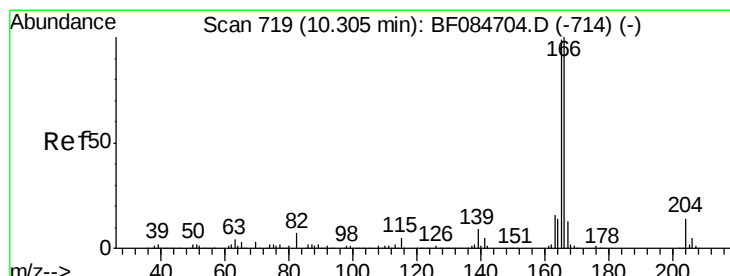
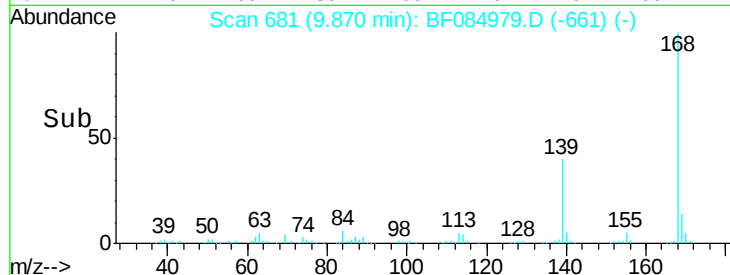
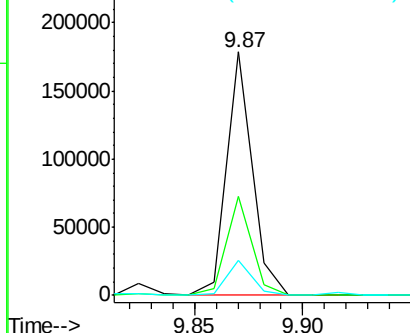
Tot Ion	Ratio	Resp	Lower	Upper
168	100	146311		
139	40.4	30.5	45.7	
169	14.4	10.4	15.6	

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM

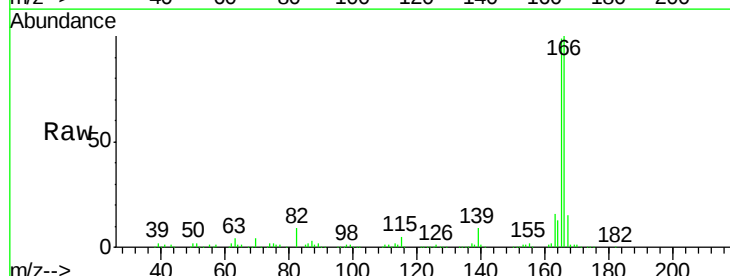


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

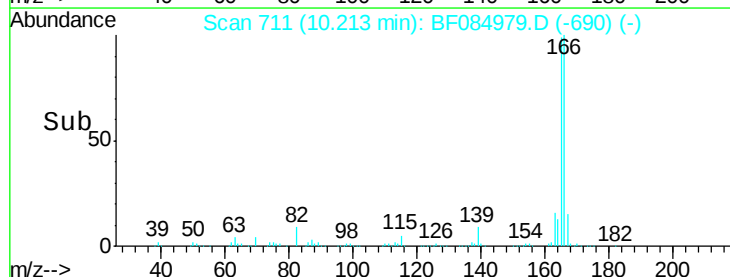
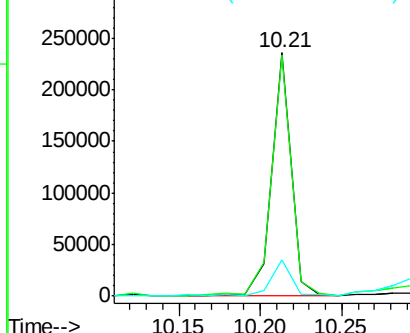


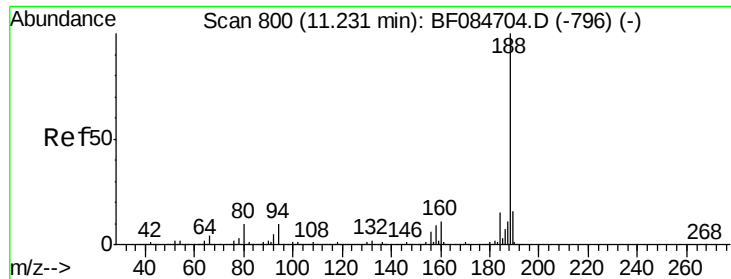
#57
Fluorene
Concen: 11.98 ng
RT: 10.21 min Scan# 711
Delta R.T. -0.06 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	196080		
165	99.2	79.1	118.7	
167	14.7	10.4	15.6	



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.15 min Scan# 793

Delta R.T. -0.06 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Instrument :

BNA_F

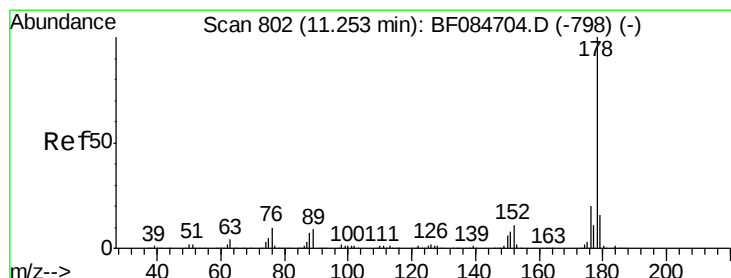
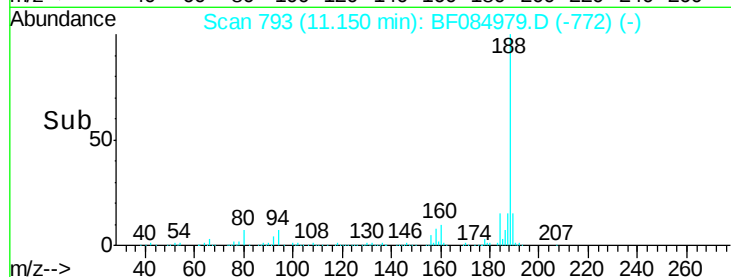
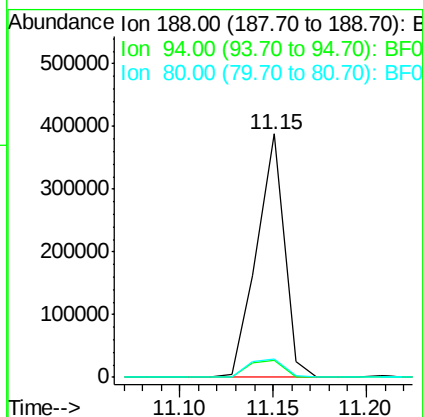
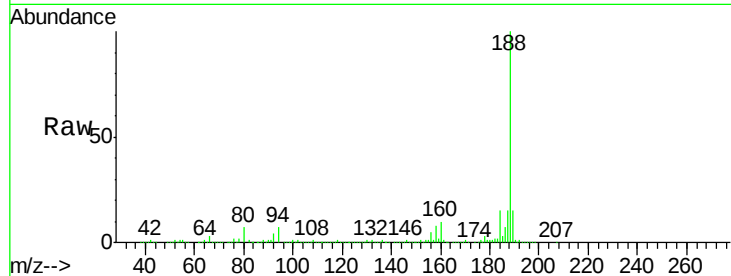
ClientSampled :

WC-1

Tot Ion:	188	Resp:	396691
Ion Ratio	Lower	Upper	
188	100		
94	7.2	9.0	13.4#
80	7.4	9.6	14.4#

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM



#70

Phenanthrene

Concen: 78.21 ng

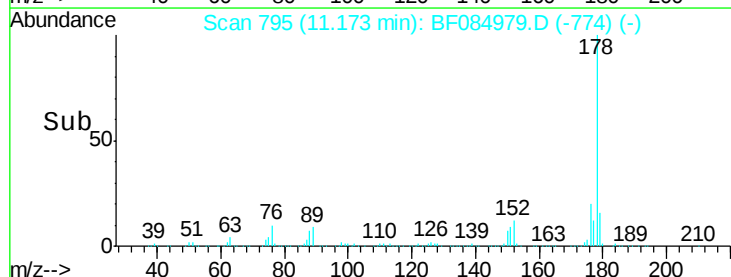
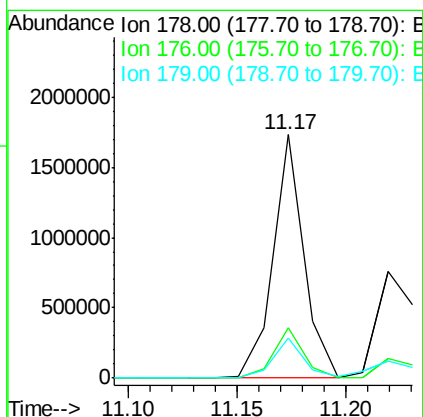
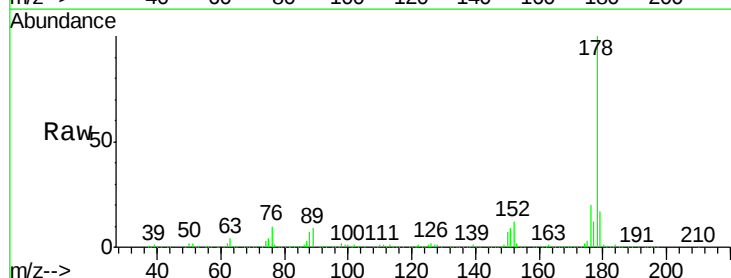
RT: 11.17 min Scan# 795

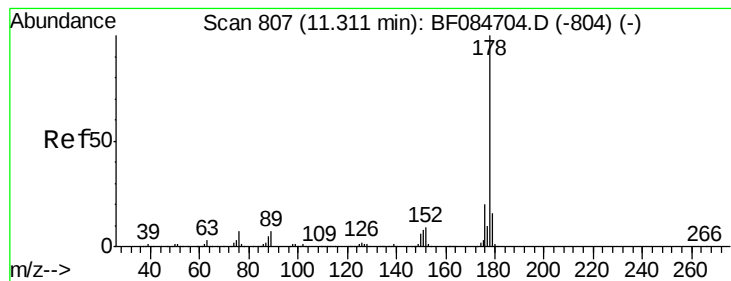
Delta R.T. -0.06 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Tgt Ion:	178	Resp:	1720879
Ion Ratio	Lower	Upper	
178	100		
176	20.5	15.3	22.9
179	16.5	12.0	18.0





#71

Anthracene

Concen: 41.91 ng

RT: 11.22 min Scan# 799

Delta R.T. -0.07 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Instrument :

BNA_F

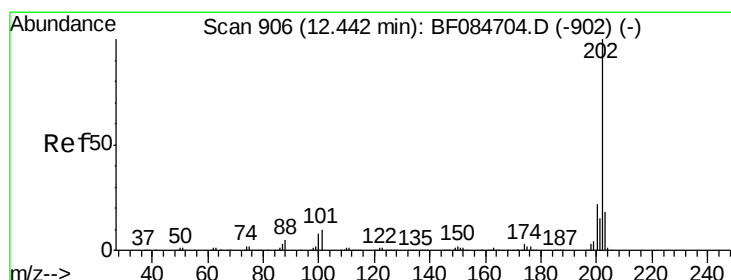
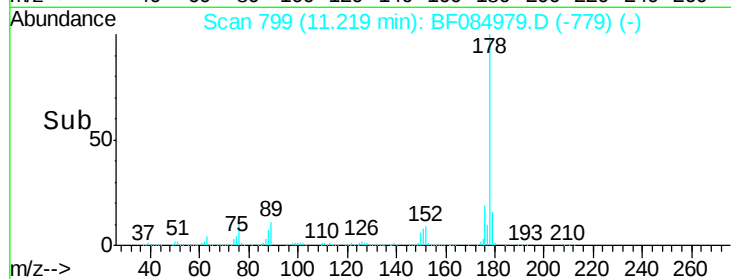
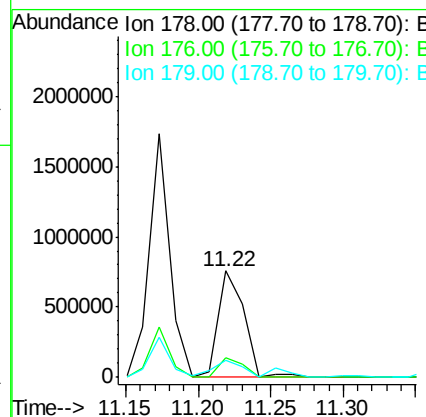
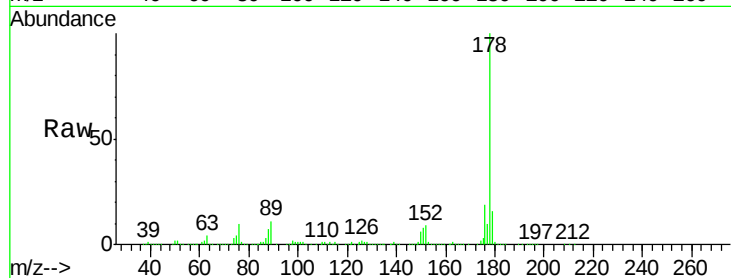
ClientSampleId :

WC-1

Tot Ion:	178	Resp:	929069
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.4	23.0
179	16.5	12.5	18.7

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM



#74

Fluoranthene

Concen: 182.85 ng

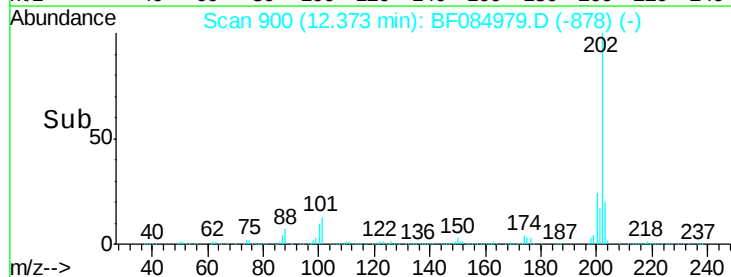
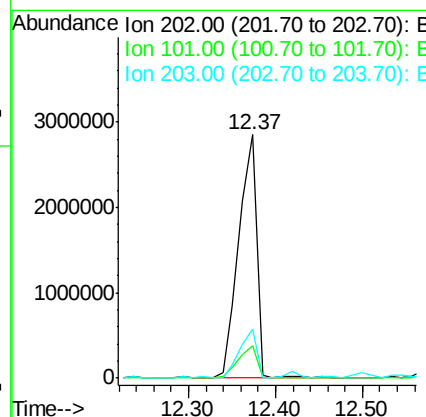
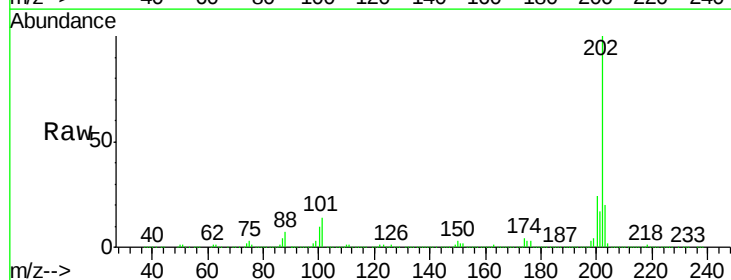
RT: 12.37 min Scan# 900

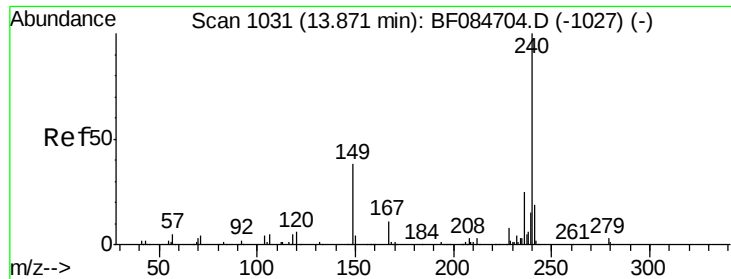
Delta R.T. -0.05 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Tgt Ion:	202	Resp:	4071898
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	32.8
203	20.3	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.79 min Scan# 1024

Delta R.T. -0.05 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Instrument :

BNA_F

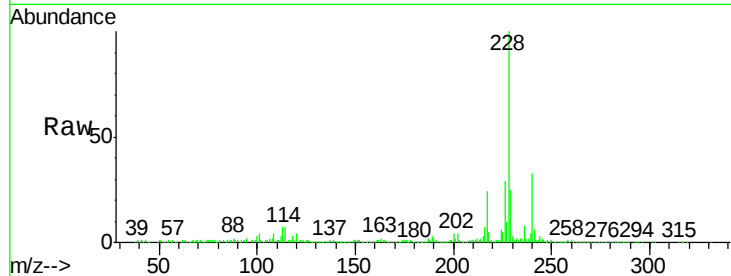
ClientSampleId :

WC-1

Tot Ion:	240	Resp:	268415
Ion Ratio	Lower	Upper	
240	100		
120	11.6	9.5	14.3
236	25.7	20.6	31.0

Manual Integrations
APPROVED

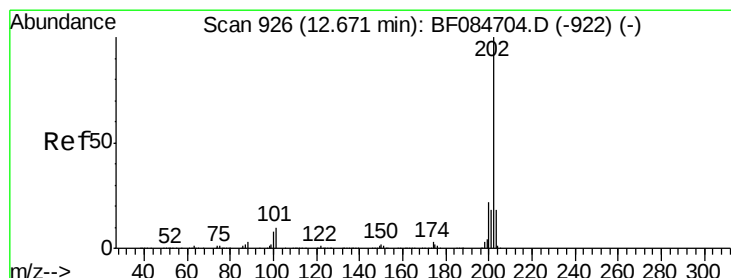
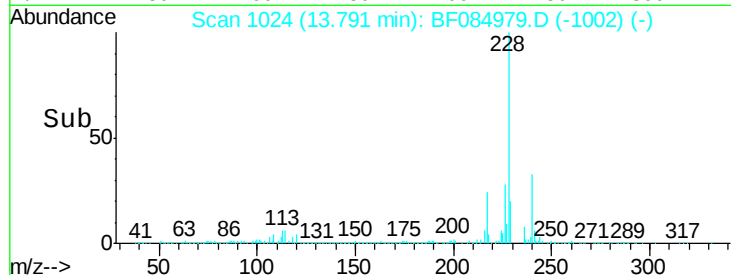
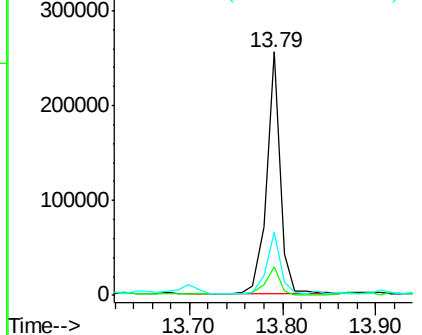
Sohil
2/10/2016 1:45:16 PM



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: 198.52 ng

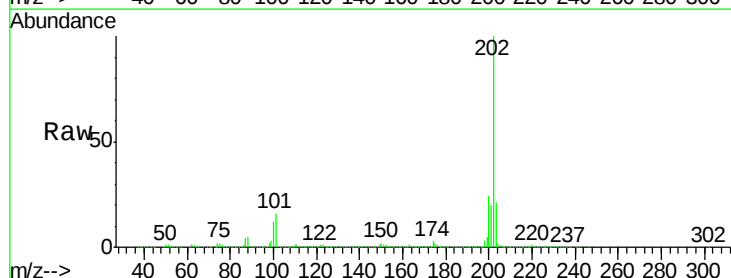
RT: 12.60 min Scan# 920

Delta R.T. -0.03 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

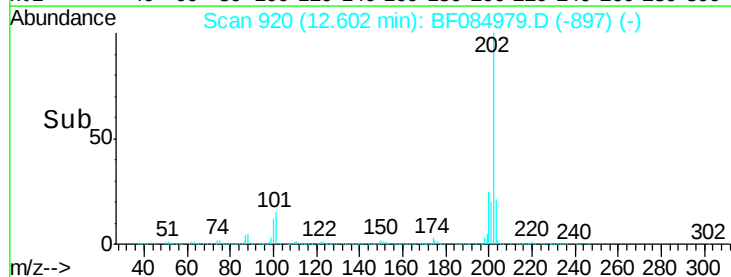
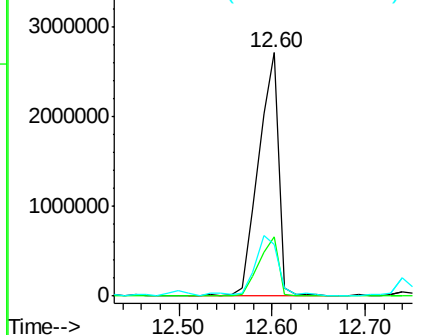
Tgt Ion:	202	Resp:	4079644
Ion Ratio	Lower	Upper	
202	100		
200	24.4	17.2	25.8
203	21.0	14.3	21.5

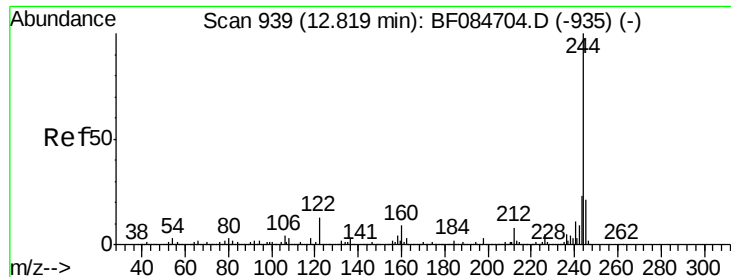


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 44.84 ng

RT: 12.74 min Scan# 932

Delta R.T. -0.06 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Instrument :

BNA_F

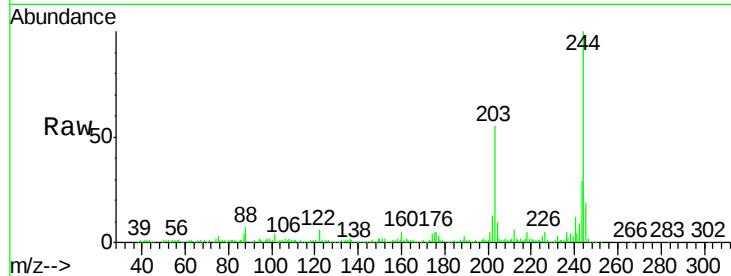
ClientSampled :

WC-1

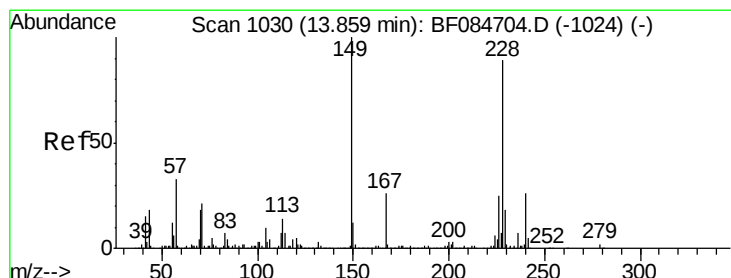
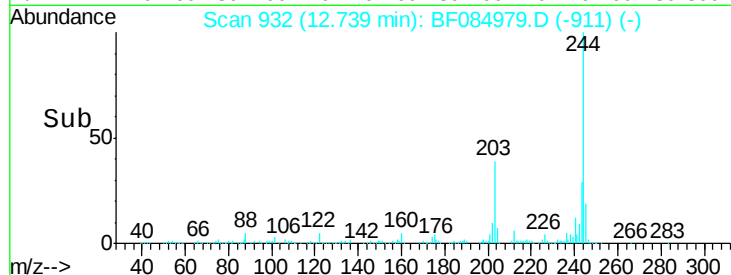
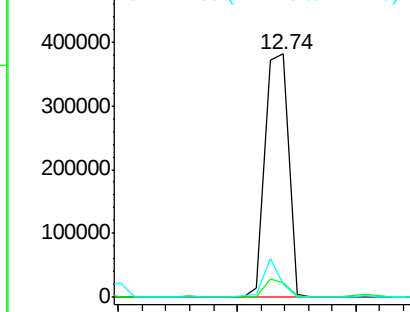
Tot Ion:	244	Resp:	531162
Ion Ratio		Lower	Upper
244	100		
212	6.0	5.7	8.5
122	5.7	7.4	11.0#

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 165.98 ng

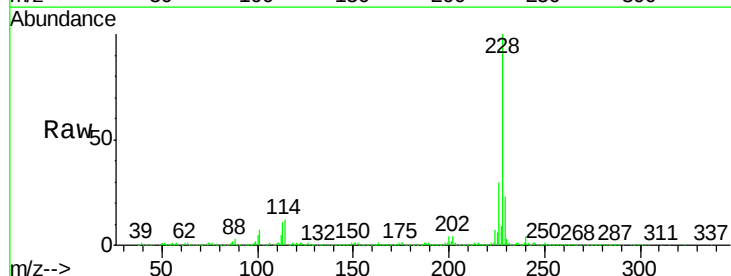
RT: 13.78 min Scan# 1023

Delta R.T. -0.05 min

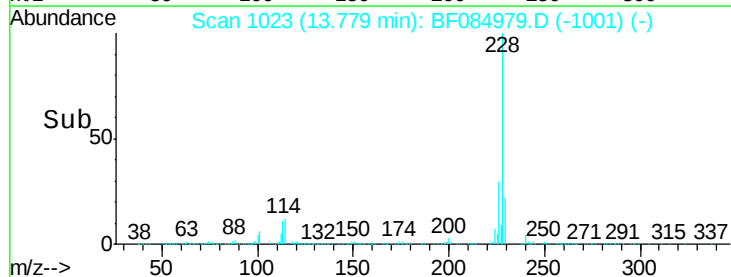
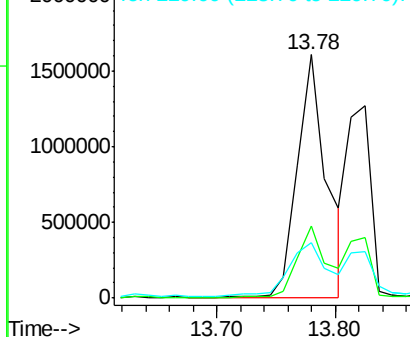
Lab File: BF084979.D

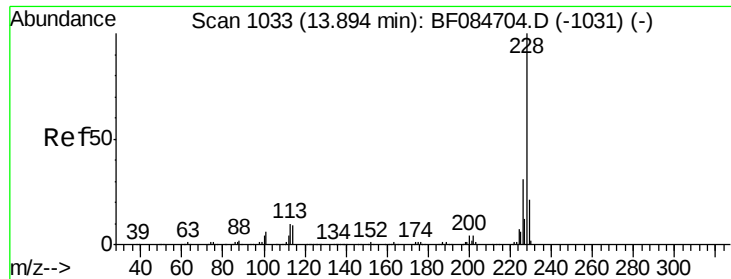
Acq: 10 Feb 2016 3:50

Tgt Ion:	228	Resp:	2765166
Ion Ratio		Lower	Upper
228	100		
226	29.9	21.8	32.6
229	23.0	15.8	23.8



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 105.33 ng

RT: 13.83 min Scan# 1027

Delta R.T. -0.03 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

Instrument :

BNA_F

ClientSampleId :

WC-1

Tot Ion:228 Resp: 1701571

Ion Ratio Lower Upper

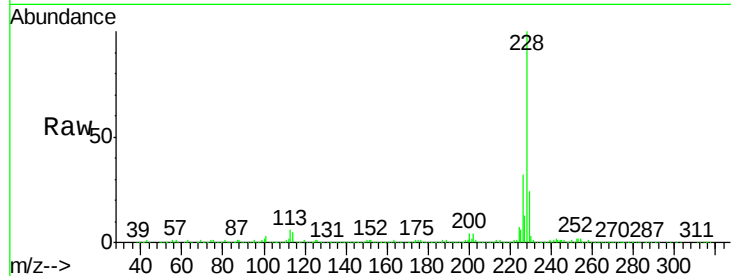
228 100

226 31.6 24.3 36.5

229 24.0 16.1 24.1

Manual Integrations
APPROVED

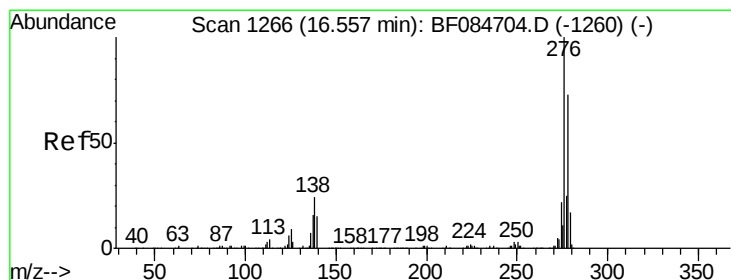
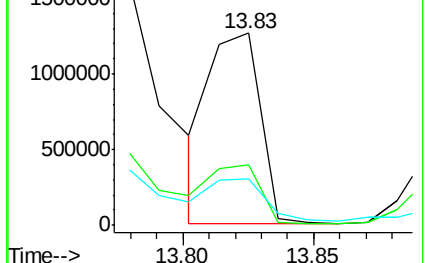
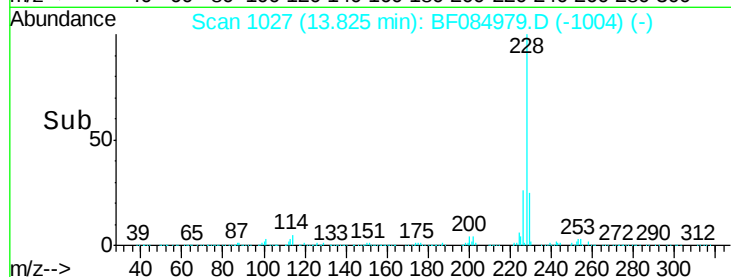
Sohil
2/10/2016 1:45:16 PM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 60.71 ng

RT: 16.42 min Scan# 1254

Delta R.T. -0.08 min

Lab File: BF084979.D

Acq: 10 Feb 2016 3:50

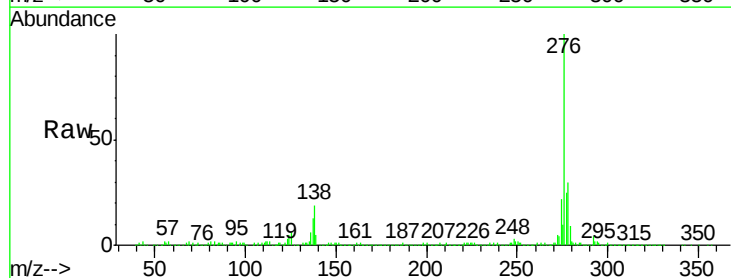
Tgt Ion:276 Resp: 772021

Ion Ratio Lower Upper

276 100

138 21.6 20.6 30.8

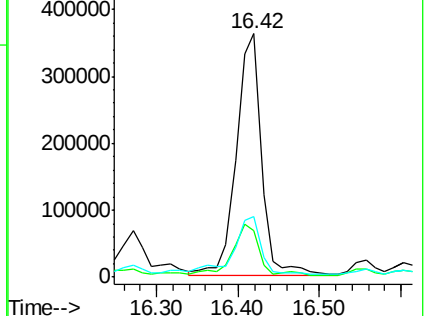
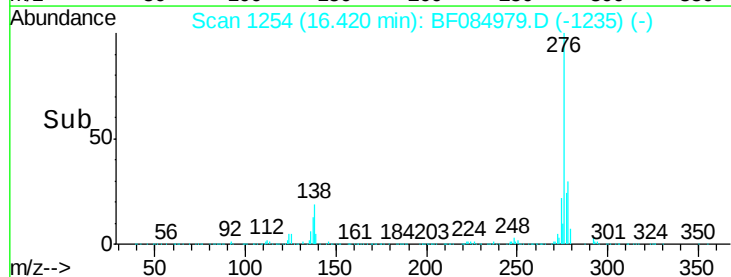
277 29.3 20.1 30.1

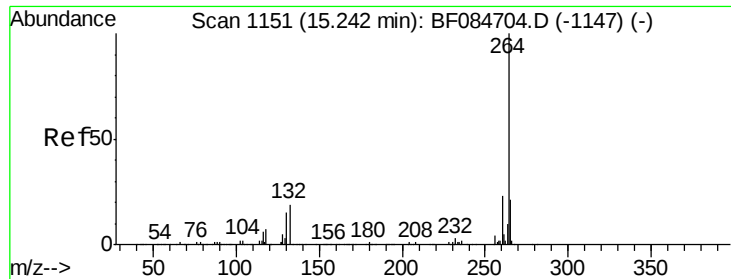


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





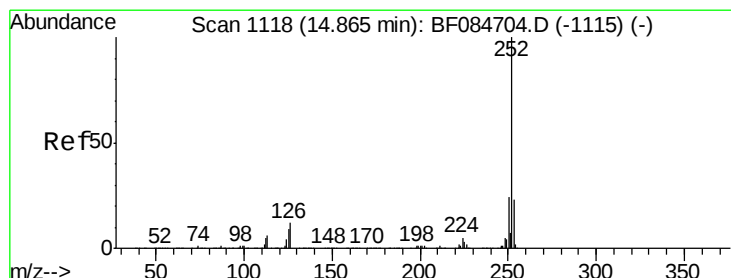
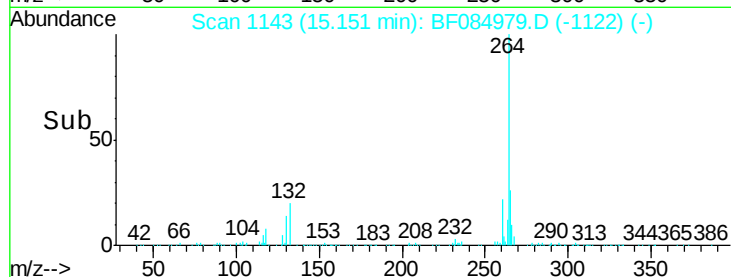
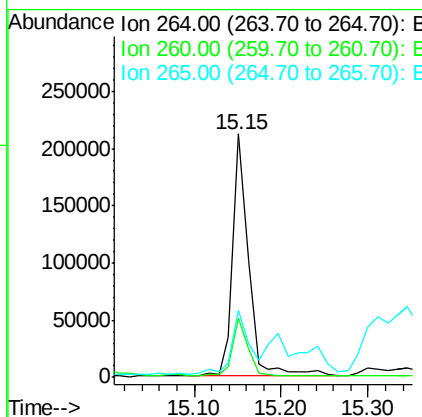
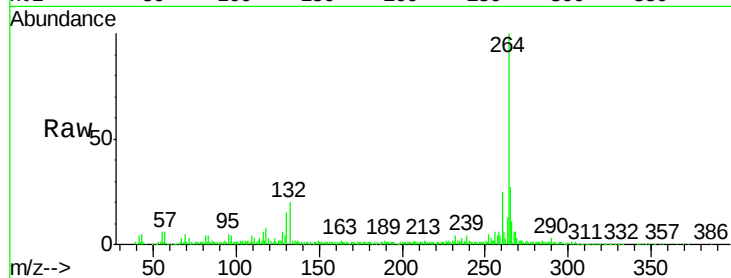
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.15 min Scan# 1143
Delta R.T. -0.06 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Instrument :
BNA_F
ClientSampleId :
WC-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	27.3	17.8	26.6

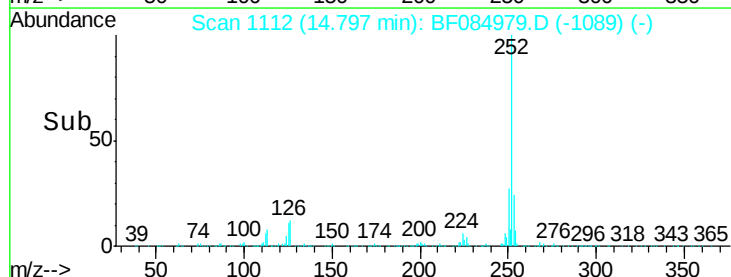
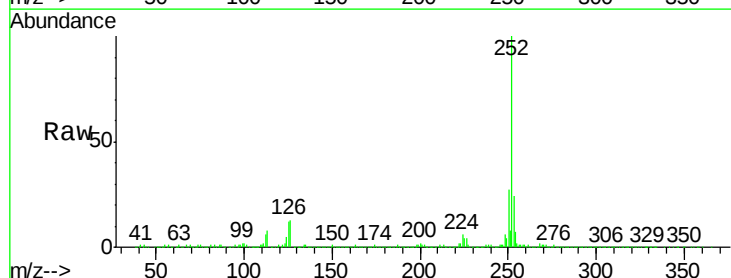
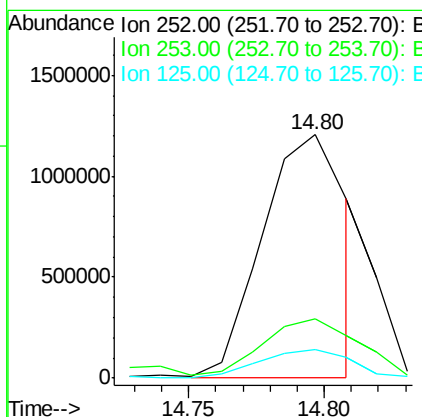
Manual Integrations
APPROVED

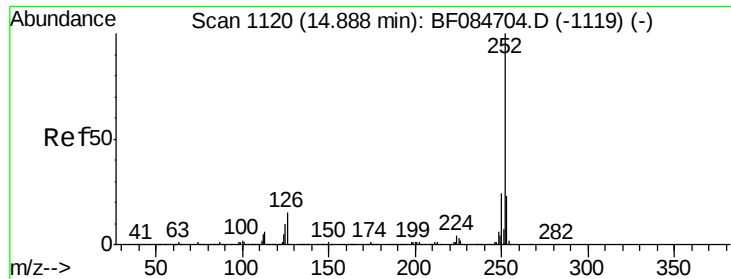
Sohil
2/10/2016 1:45:16 PM



#87
Benzo(b)fluoranthene
Concen: 145.02 ng m
RT: 14.80 min Scan# 1112
Delta R.T. -0.03 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.3	25.9
125	11.6	6.5	9.7





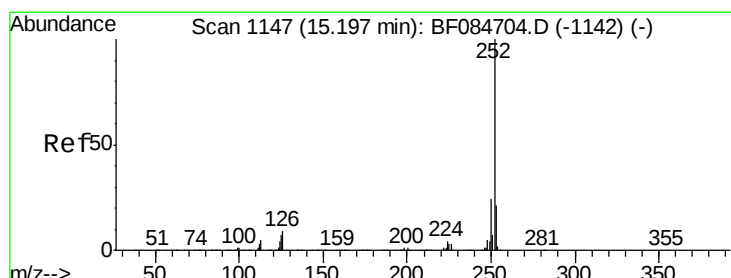
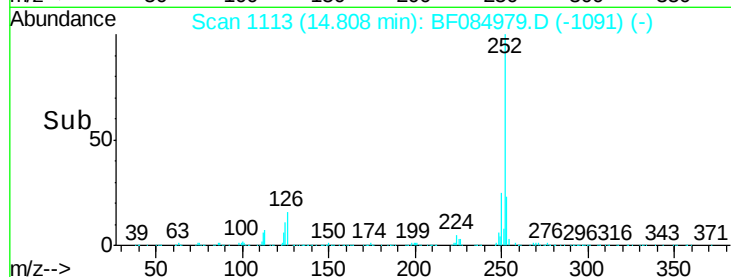
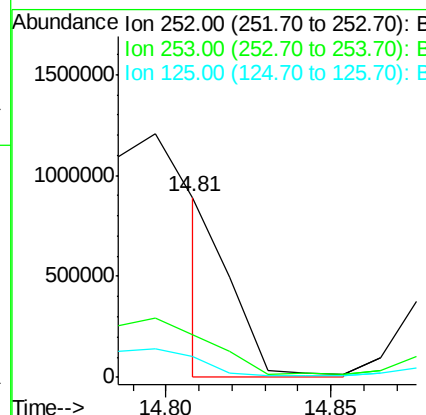
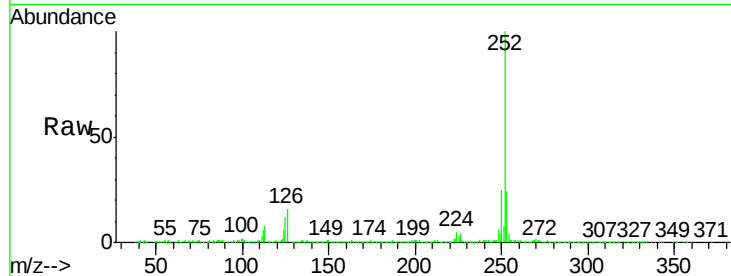
#88
Benzo(k)fluoranthene
Concen: 26.18 ng m
RT: 14.81 min Scan# 1113
Delta R.T. -0.05 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Instrument :
BNA_F
ClientSampleId :
WC-1

Tot Ion	Ratio	Resp	Lower	Upper
252	100	389616		
253	24.0	18.1	27.1	
125	11.9	9.0	13.6	

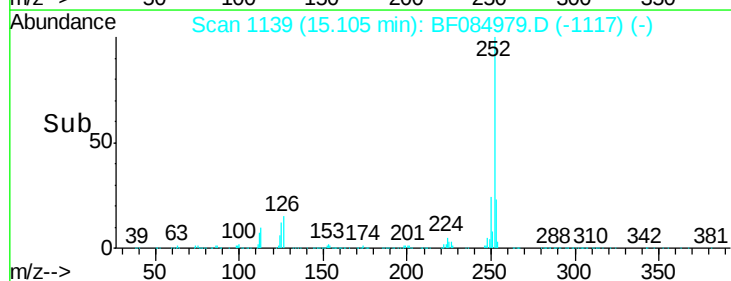
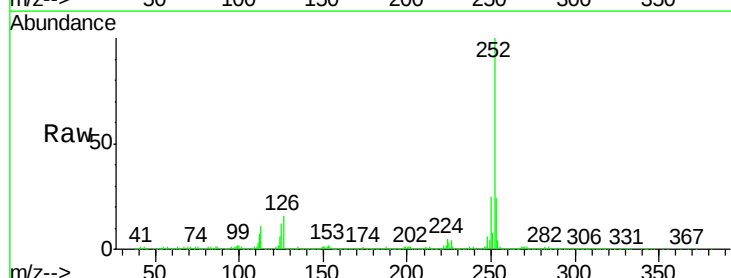
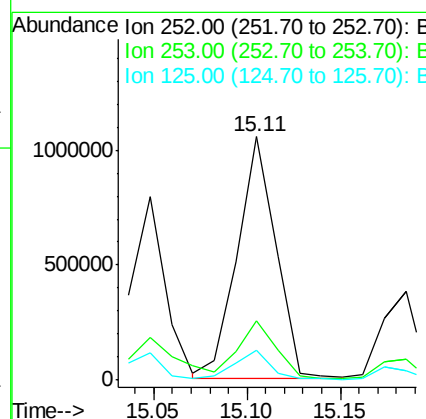
Manual Integrations
APPROVED

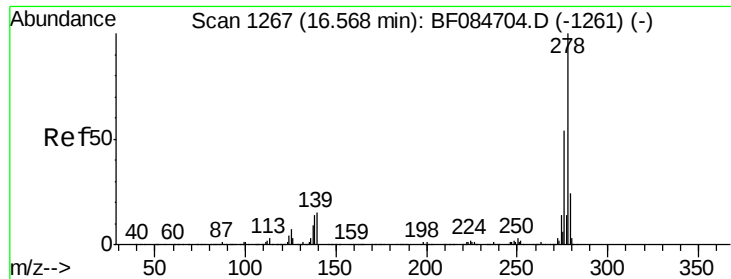
Sohil
2/10/2016 1:45:16 PM



#89
Benzo(a)pyrene
Concen: 98.85 ng
RT: 15.11 min Scan# 1139
Delta R.T. -0.05 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1515759		
253	24.4	17.3	25.9	
125	12.0	7.0	10.4	





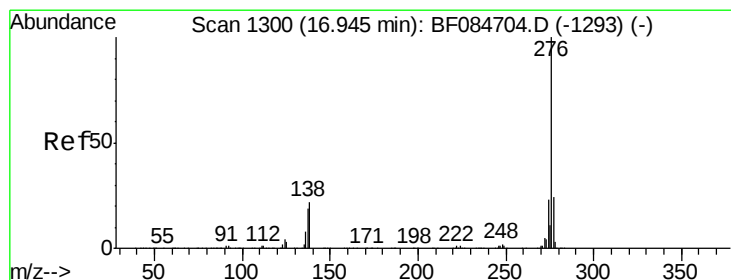
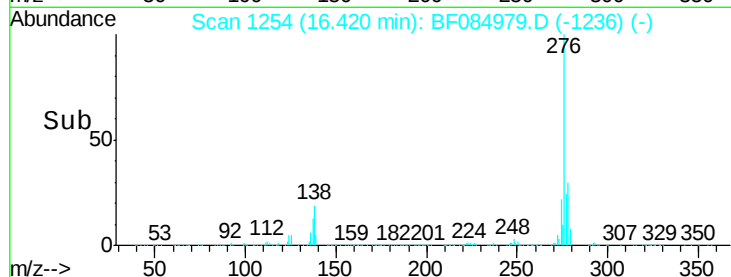
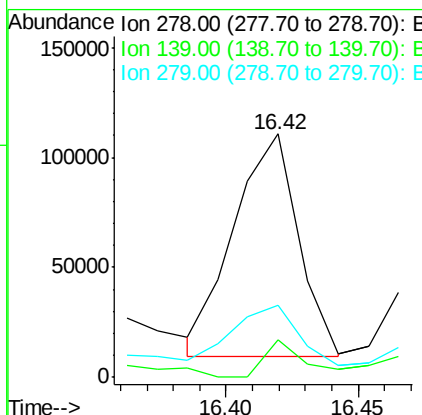
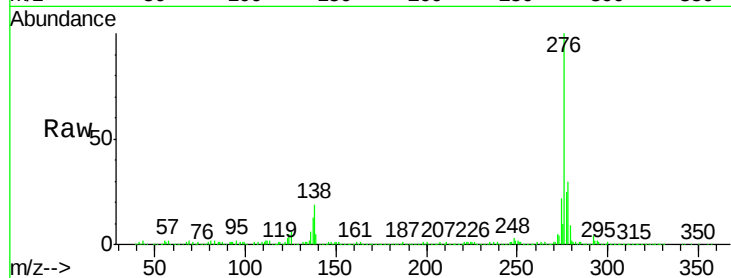
#90
Dibenzo(a,h)anthracene
Concen: 13.32 ng/mL
RT: 16.42 min Scan# 1254
Delta R.T. -0.09 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Instrument :
BNA_F
ClientSampled :
WC-1

Tot Ion:278	Resp:	171951
Ion Ratio	Lower	Upper
278	100	
139	15.6	15.0 22.4
279	29.8	18.9 28.3#

Manual Integrations
APPROVED

Sohil
2/10/2016 1:45:16 PM



#91
Benzo(g,h,i)perylene
Concen: 50.69 ng/mL
RT: 16.80 min Scan# 1287
Delta R.T. -0.09 min
Lab File: BF084979.D
Acq: 10 Feb 2016 3:50

Tgt Ion:276	Resp:	659076
Ion Ratio	Lower	Upper
276	100	
277	24.9	18.8 28.2
138	19.6	17.8 26.6

