

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
 Data File : BF083666.D
 Acq On : 10 Dec 2015 5:15
 Operator : UM/IZ
 Sample : G4583-08DL 10X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(0-8)DL

Manual Integrations
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 12/10/2015 5:50:29 PM

Quant Time: Dec 10 06:33:04 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	128325	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	499910	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	233101	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	355217	20.00	ng	-0.02
75) Chrysene-d12	16.98	240	303024	20.00	ng	-0.01
86) Perylene-d12	18.63	264	249474	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.00	112	86084	10.17	ng	0.02
7) Phenol-d6	5.30	99	127168	11.25	ng	0.02
23) Nitrobenzene-d5	6.53	82	82033	7.66	ng	0.00
41) 2,4,6-Tribromophenol	11.68	330	17059	8.21	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	150716	9.10	ng	-0.02
78) Terphenyl-d14	15.39	244	108873	8.45	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.61	128	1258606	47.54	ng	99
37) 2-Methylnaphthalene	8.72	142	147048	8.84	ng	99
45) 1,1'-Biphenyl	9.48	154	53200	2.63	ng	95
48) Acenaphthylene	10.14	152	90529	3.59	ng	99
51) Acenaphthene	10.42	154	186590	12.92	ng	98
57) Fluorene	11.27	166	88129	5.04	ng	98
70) Phenanthrene	12.80	178	455878	22.34	ng	99
71) Anthracene	12.89	178	169718	8.03	ng	99
74) Fluoranthene	14.73	202	321706	15.41	ng	99
77) Pyrene	15.08	202	484549	22.21	ng	99
80) Benzo(a)anthracene	16.97	228	173891m	9.80	ng	
82) Chrysene	17.01	228	197925m	11.13	ng	
85) Indeno(1,2,3-cd)pyrene	19.88	276	111134	9.26	ng	# 100
87) Benzo(b)fluoranthene	18.25	252	235312m	16.56	ng	
88) Benzo(k)fluoranthene	18.27	252	52622m	3.36	ng	
89) Benzo(a)pyrene	18.57	252	209080	15.08	ng	99
90) Dibenzo(a,h)anthracene	19.88	278	30745m	2.90	ng	
91) Benzo(g,h,i)perylene	20.23	276	135822	13.14	ng	98

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

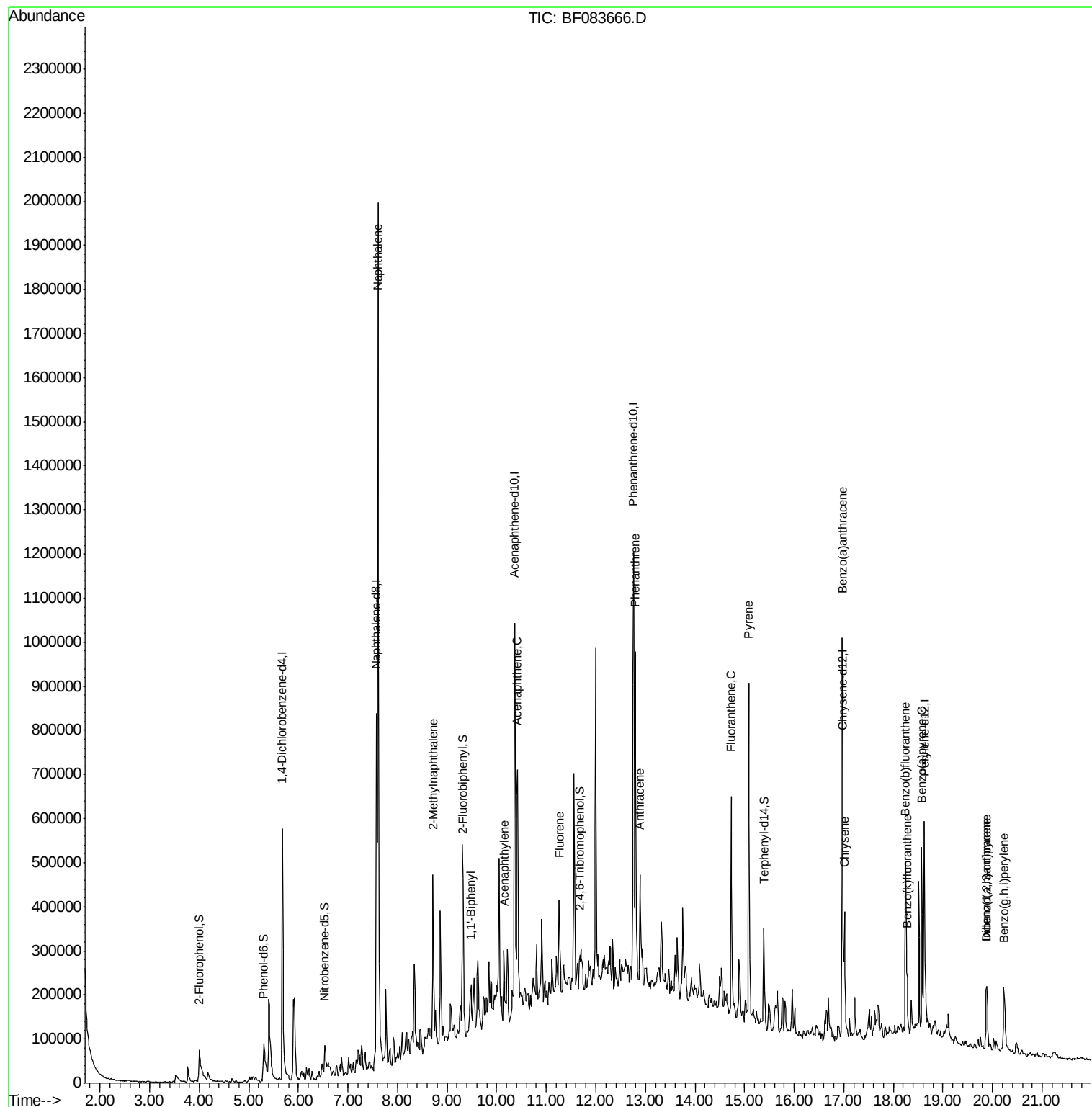
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
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Misc :
ALS Vial : 30 Sample Multiplier: 1

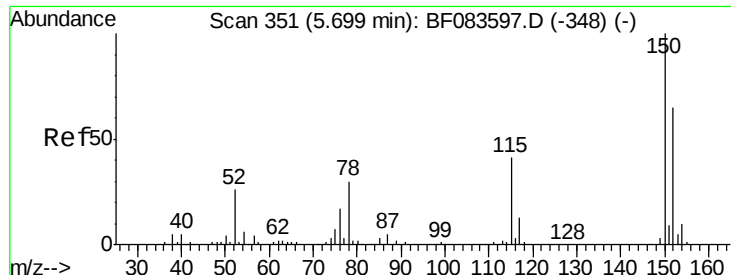
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)DL

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Quant Time: Dec 10 06:33:04 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
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#1

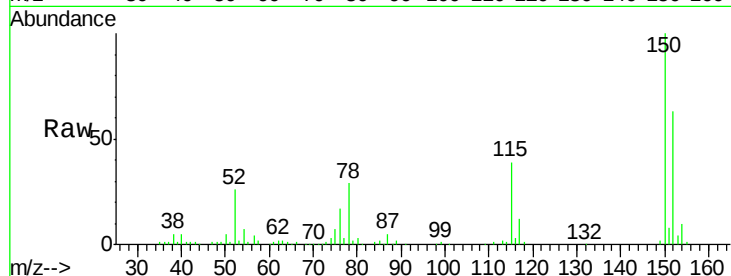
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.68 min Scan# 349
Delta R.T. -0.02 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	126.5	189.7
115	62.9	52.3	78.5

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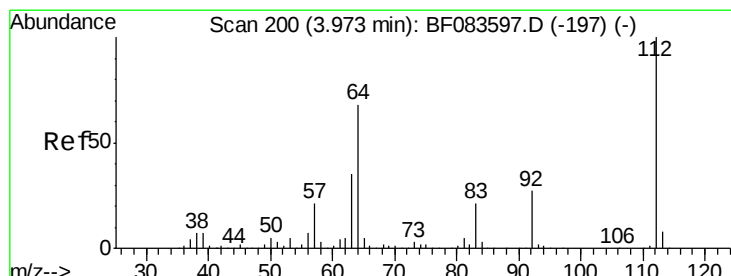
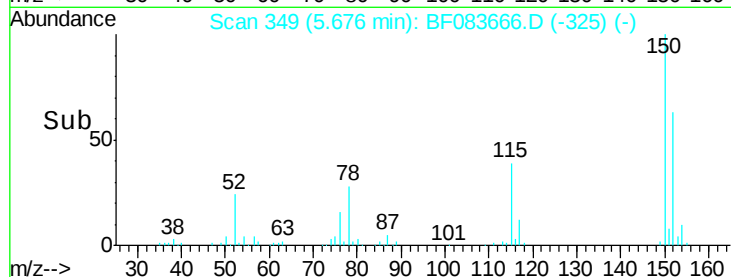
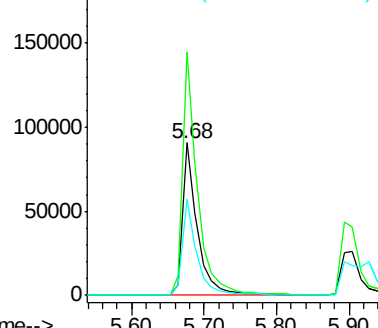


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

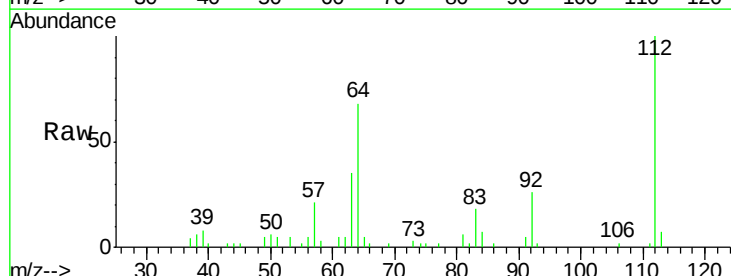
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 10.17 ng
RT: 4.00 min Scan# 202
Delta R.T. 0.02 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.8	50.5	75.7
63	34.6	25.8	38.6

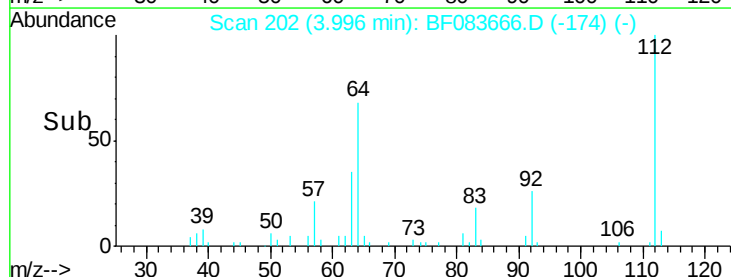
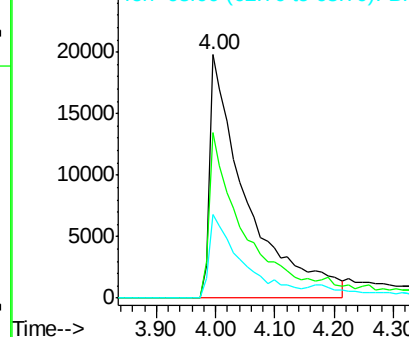


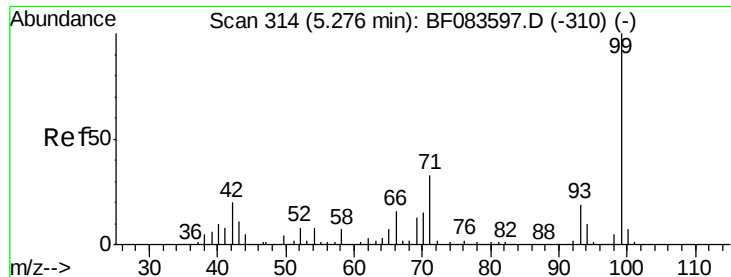
Abundance

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: 11.25 ng

RT: 5.30 min Scan# 316

Delta R.T. 0.02 min

Lab File: BF083666.D

Acq: 10 Dec 2015 5:15

Instrument :

BNA_F

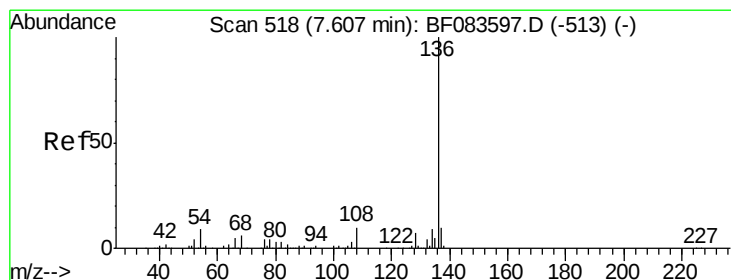
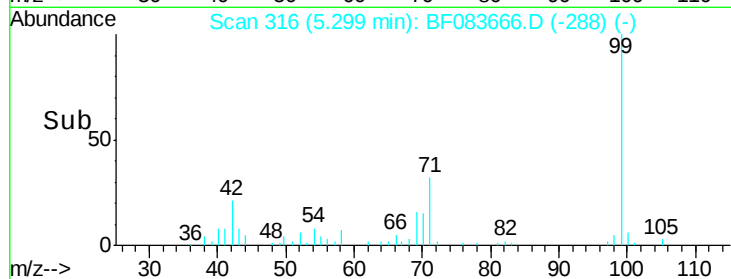
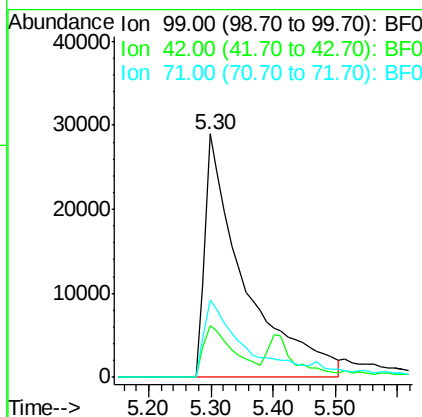
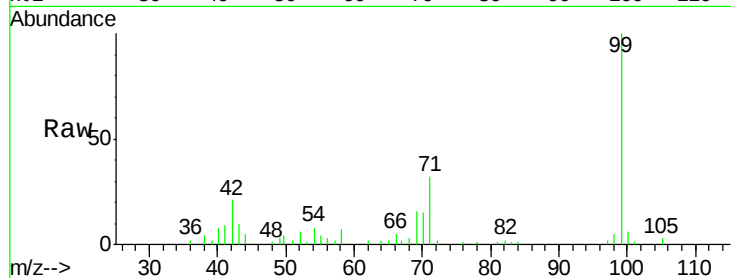
ClientSampleId :

SB-P3WC-08(0-8)DL

Tot Ion:	99	Resp:	127168
Ion Ratio	Lower	Upper	
99	100		
42	21.4	17.3	25.9
71	31.9	26.6	40.0

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#21

Naphthalene-d8

Concen: 20.00 ng

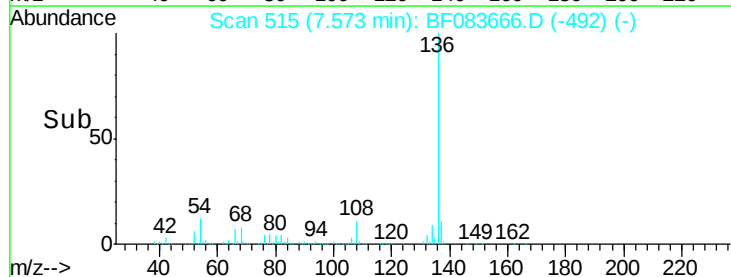
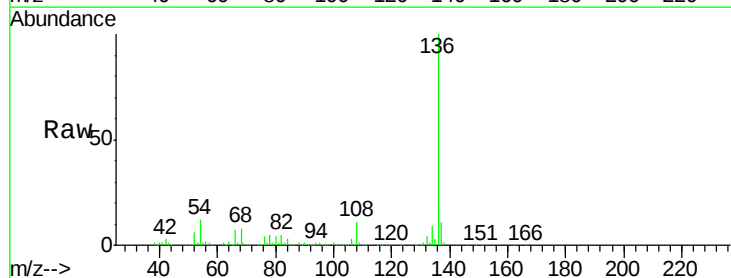
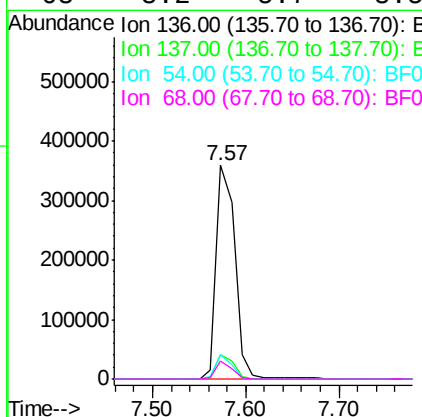
RT: 7.57 min Scan# 515

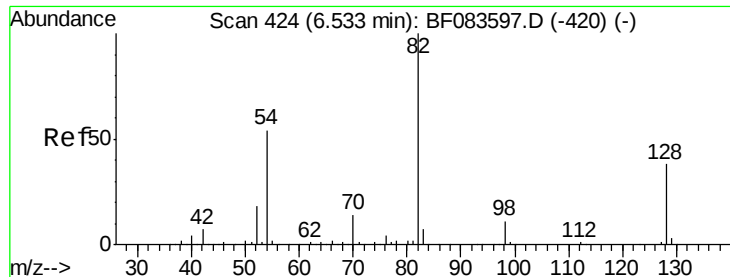
Delta R.T. -0.03 min

Lab File: BF083666.D

Acq: 10 Dec 2015 5:15

Tgt Ion:	136	Resp:	499910
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.7	13.1
54	11.7	7.8	11.6#
68	8.2	5.7	8.5





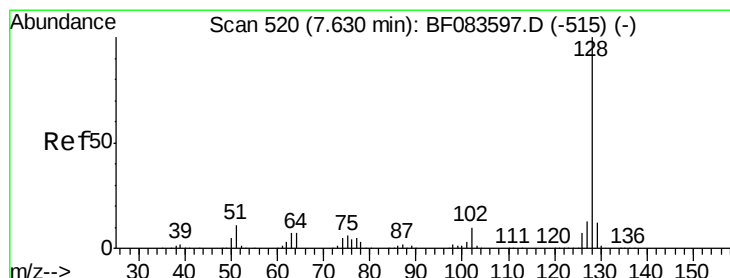
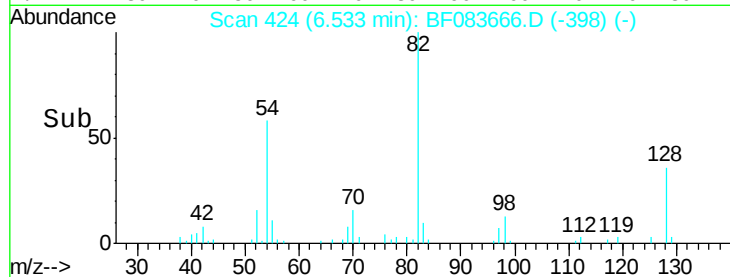
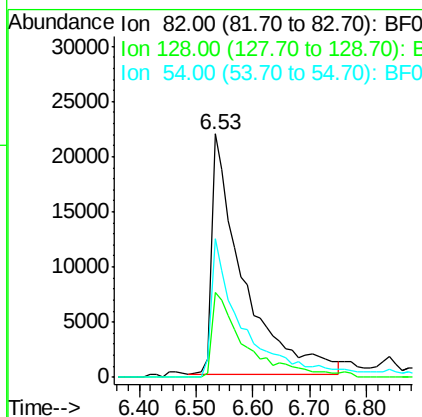
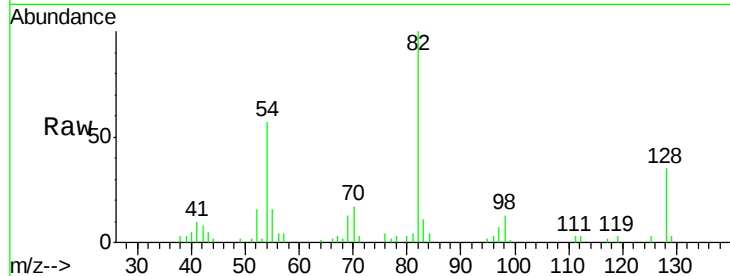
#23
 Nitrobenzene-d5
 Concen: 7.66 ng
 RT: 6.53 min Scan# 424
 Delta R.T. 0.00 min
 Lab File: BF083666.D
 Acq: 10 Dec 2015 5:15

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.0	30.7	46.1
54	57.2	42.5	63.7

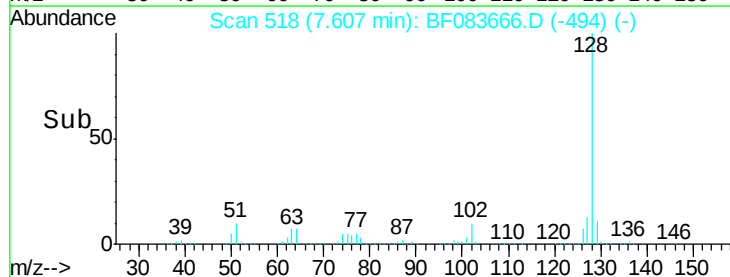
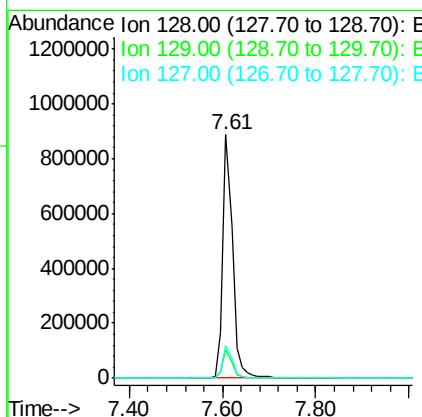
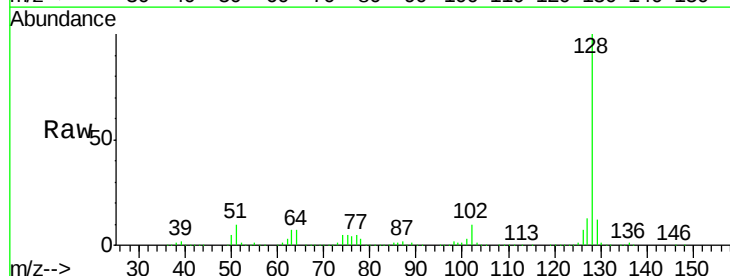
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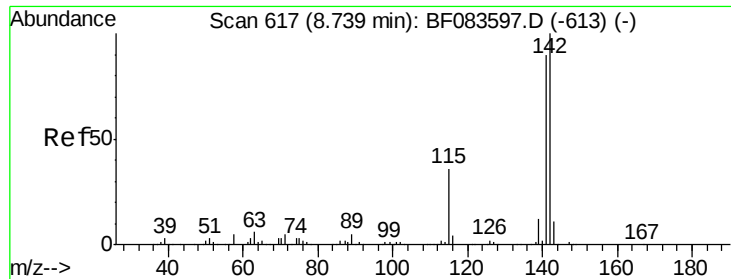
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#31
 Naphthalene
 Concen: 47.54 ng
 RT: 7.61 min Scan# 518
 Delta R.T. -0.02 min
 Lab File: BF083666.D
 Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.6	13.0
127	13.2	10.6	16.0





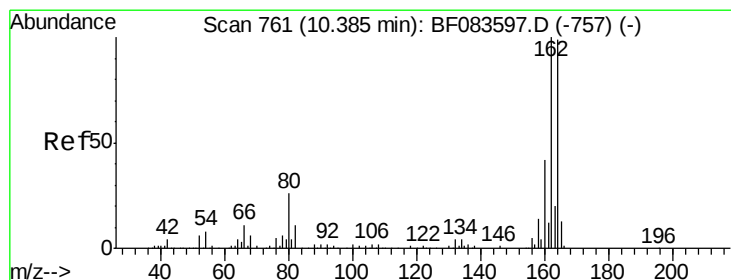
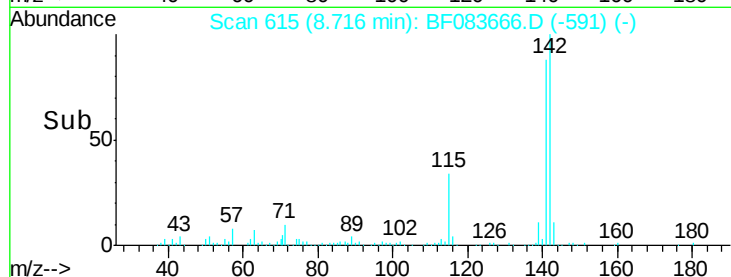
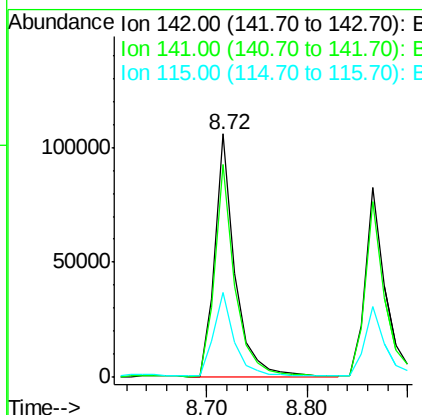
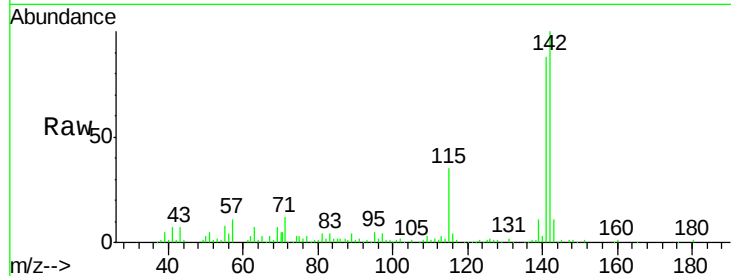
#37
2-Methylnaphthalene
Concen: 8.84 ng
RT: 8.72 min Scan# 615
Delta R.T. -0.02 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.7	70.3	105.5
115	34.8	29.2	43.8

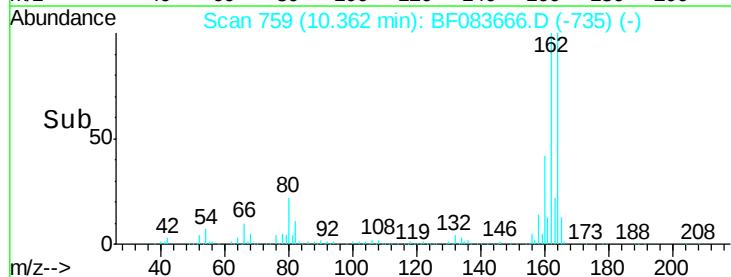
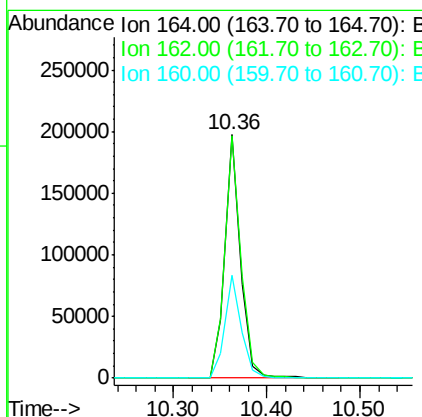
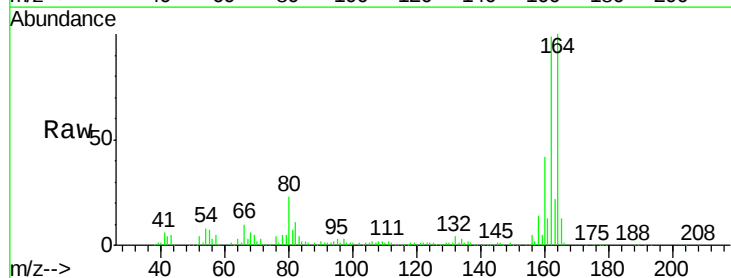
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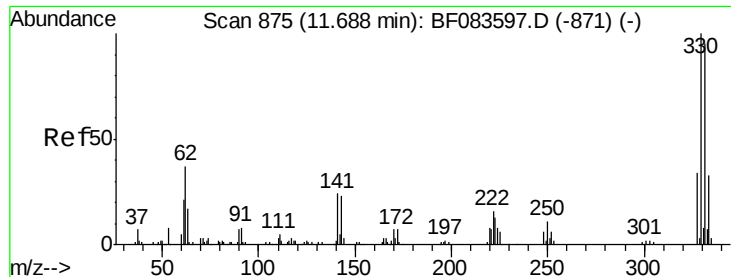
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.36 min Scan# 759
Delta R.T. -0.02 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.5	78.8	118.2
160	42.5	33.4	50.2





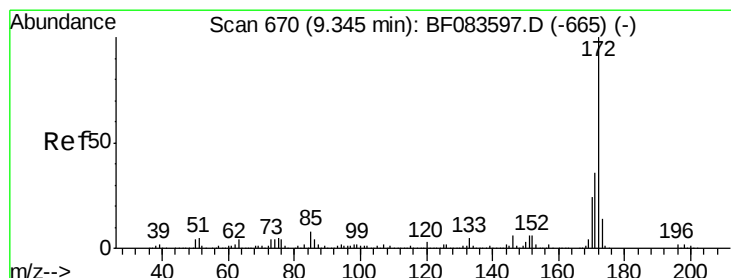
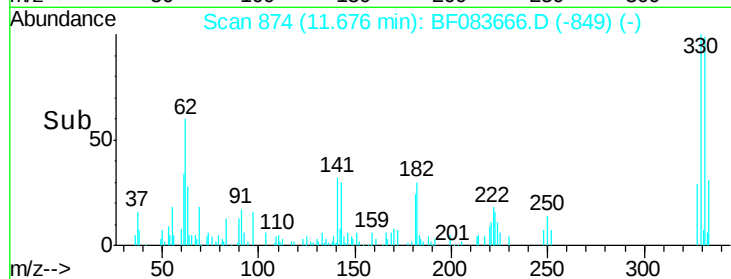
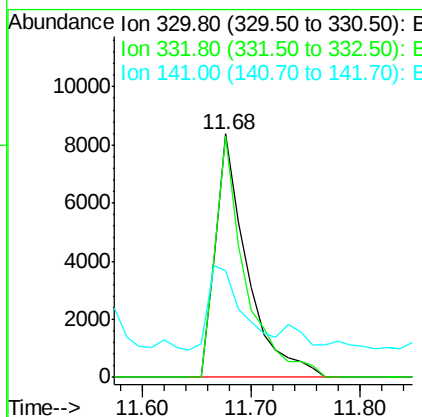
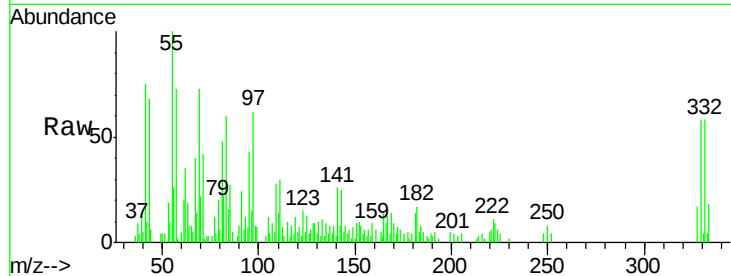
#41
 2,4,6-Tribromophenol
 Concen: 8.21 ng
 RT: 11.68 min Scan# 874
 Delta R.T. -0.01 min
 Lab File: BF083666.D
 Acq: 10 Dec 2015 5:15

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	94.5	0.0	0.0#
141	37.8	0.0	0.0#

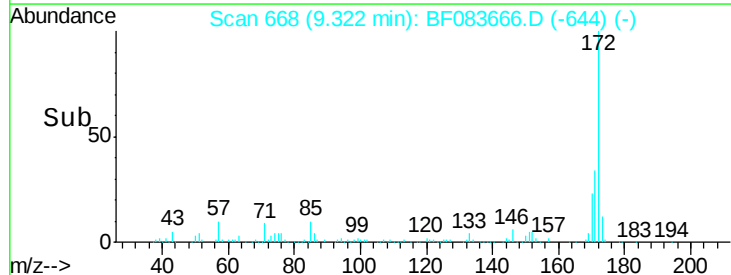
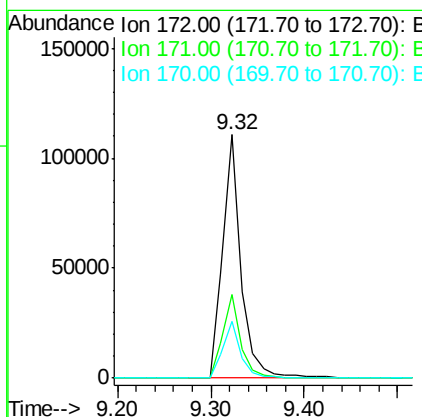
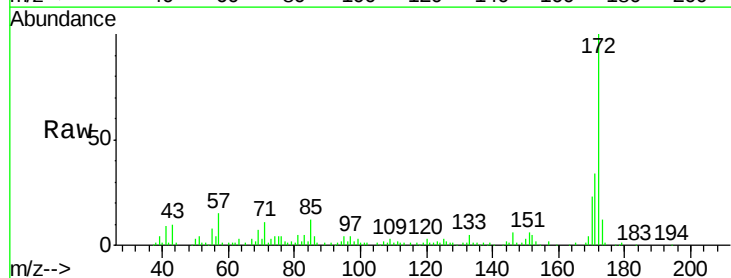
Manual Integrations
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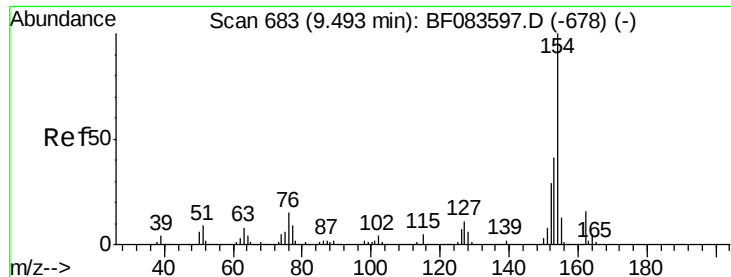
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#44
 2-Fluorobiphenyl
 Concen: 9.10 ng
 RT: 9.32 min Scan# 668
 Delta R.T. -0.02 min
 Lab File: BF083666.D
 Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	34.1	28.6	42.8
170	23.2	19.4	29.0





#45

1,1'-Biphenyl

Concen: 2.63 ng

RT: 9.48 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF083666.D

Acq: 10 Dec 2015 5:15

Instrument :

BNA_F

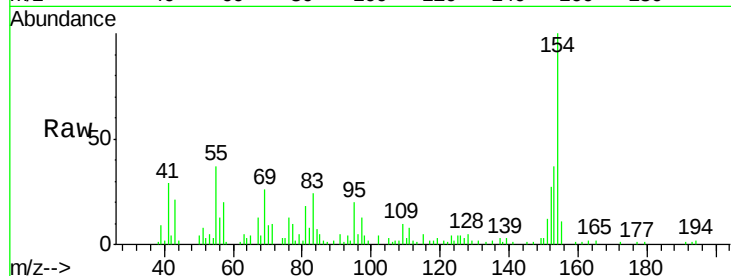
ClientSampleId :

SB-P3WC-08(0-8)DL

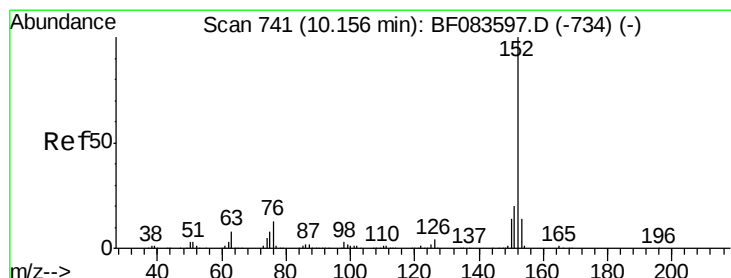
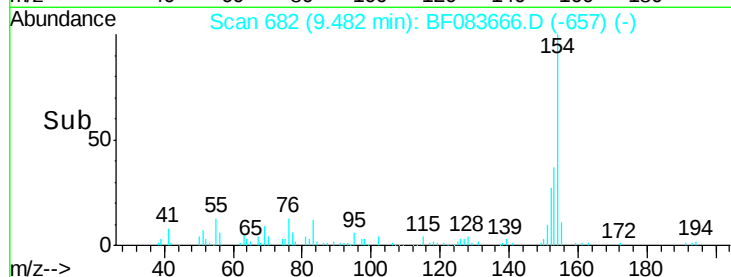
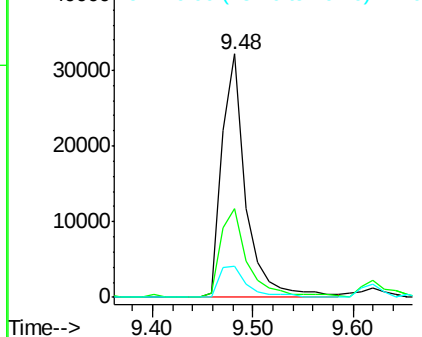
Tot Ion:	154	Resp:	53200
Ion Ratio	Lower	Upper	
154	100		
153	36.7	20.2	60.2
76	12.8	0.0	34.8

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 3.59 ng

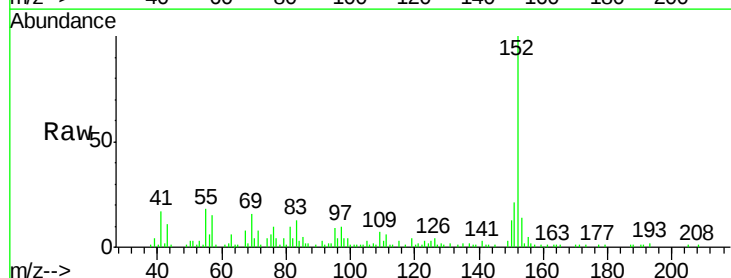
RT: 10.14 min Scan# 740

Delta R.T. -0.01 min

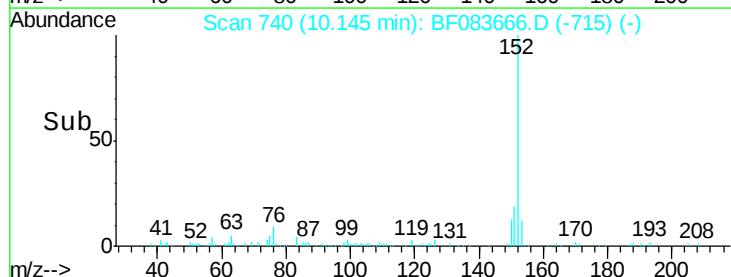
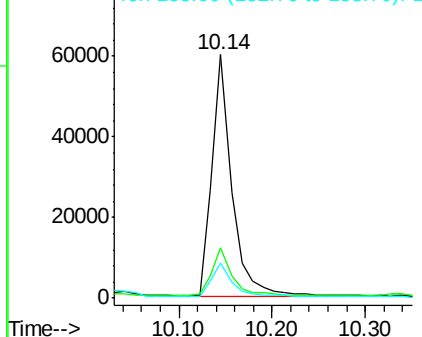
Lab File: BF083666.D

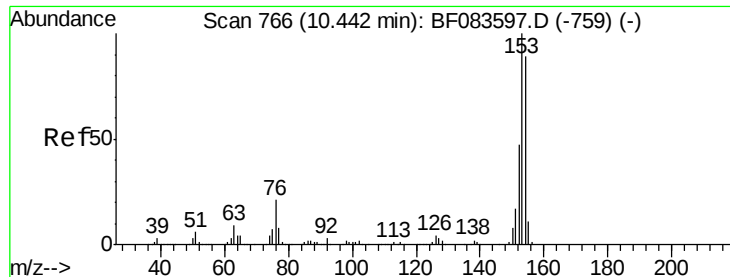
Acq: 10 Dec 2015 5:15

Tgt Ion:	152	Resp:	90529
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.3	24.5
153	14.2	10.8	16.2



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





#51

Acenaphthene

Concen: 12.92 ng

RT: 10.42 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF083666.D

Acq: 10 Dec 2015 5:15

Instrument :

BNA_F

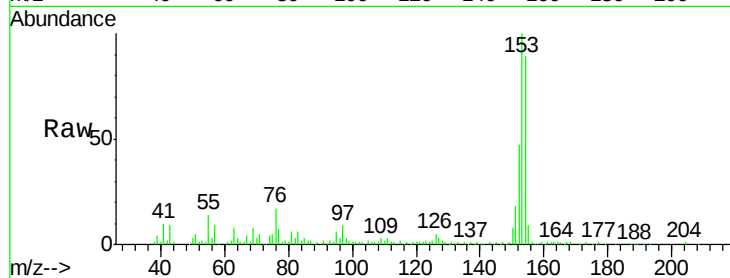
ClientSampleId :

SB-P3WC-08(0-8)DL

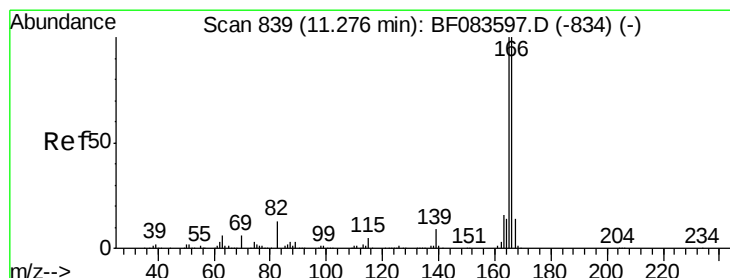
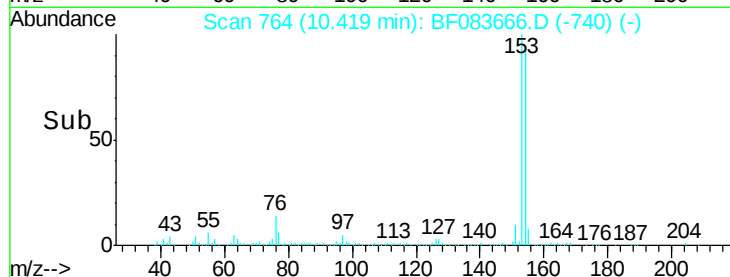
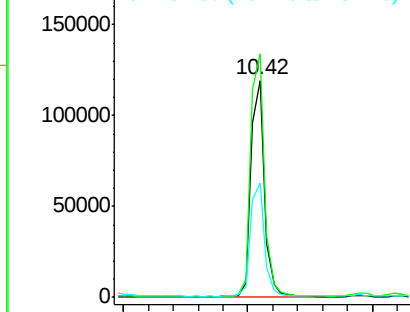
Tot Ion:	154	Resp:	186590
Ion Ratio	Lower	Upper	
154	100		
153	112.3	91.4	137.0
152	52.7	43.4	65.2

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 5.04 ng

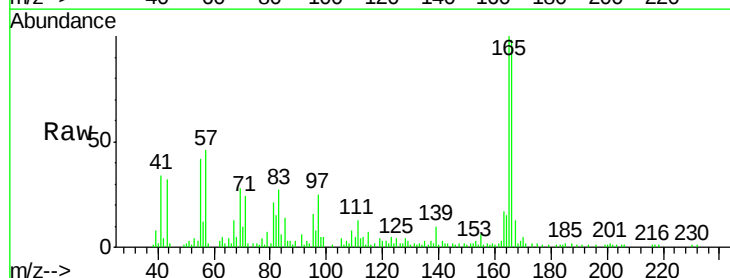
RT: 11.27 min Scan# 838

Delta R.T. -0.01 min

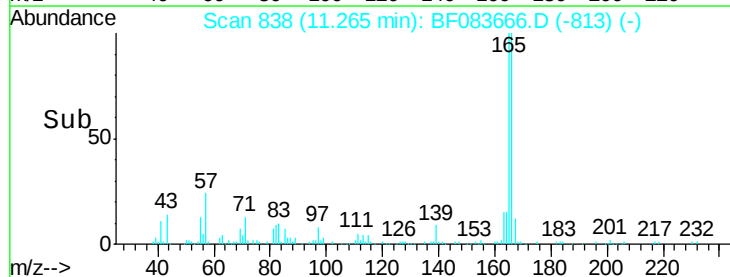
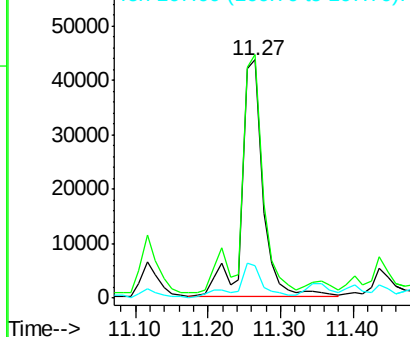
Lab File: BF083666.D

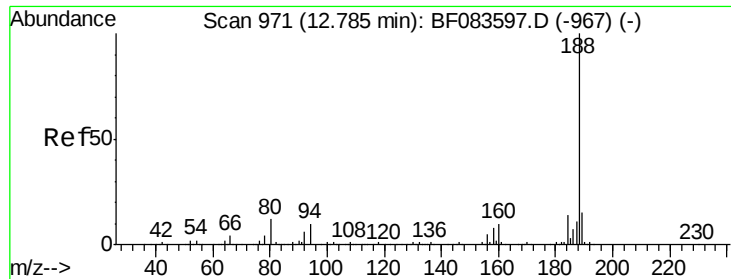
Acq: 10 Dec 2015 5:15

Tgt Ion:	166	Resp:	88129
Ion Ratio	Lower	Upper	
166	100		
165	102.1	80.0	120.0
167	13.4	10.6	16.0



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





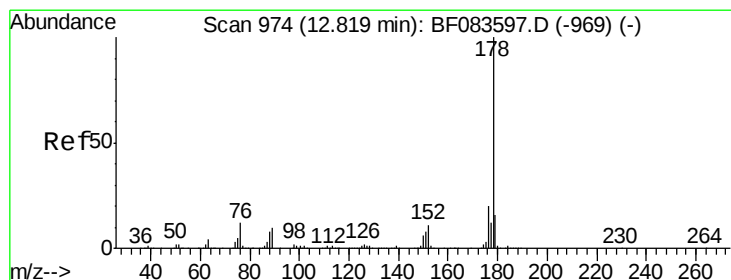
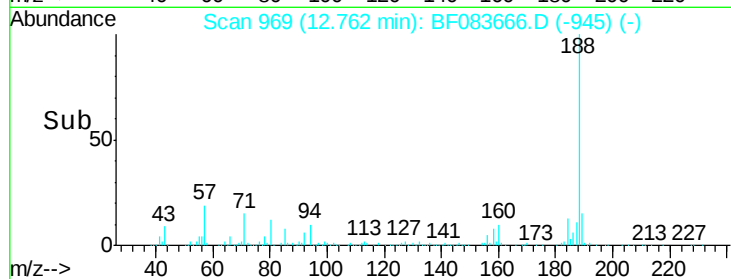
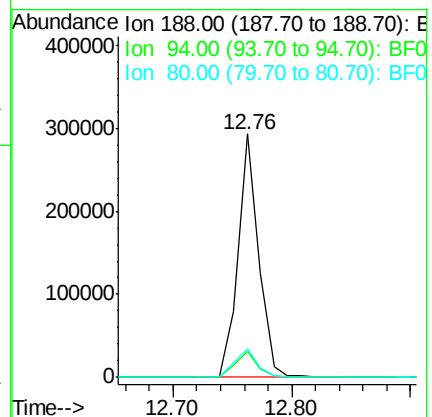
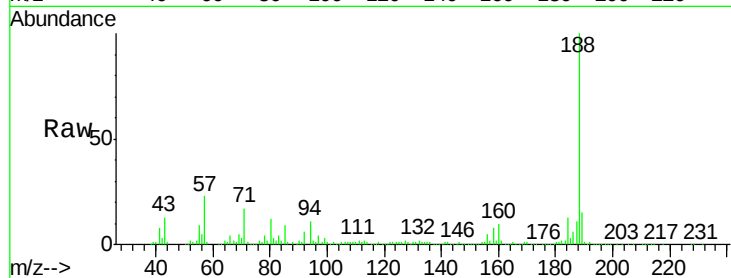
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.76 min Scan# 969
Delta R.T. -0.02 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	355217		
94	10.6		9.4	14.2
80	11.8		10.6	16.0

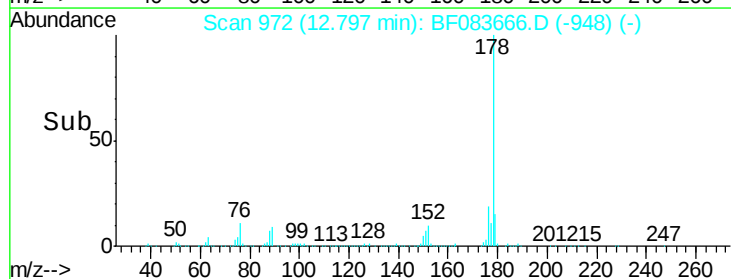
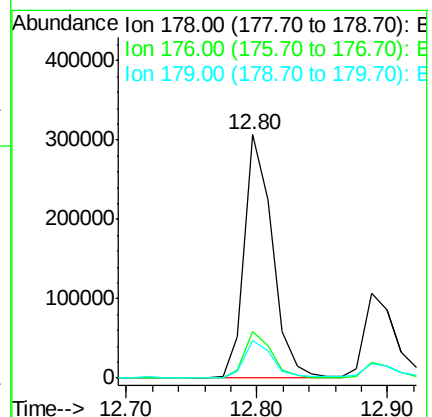
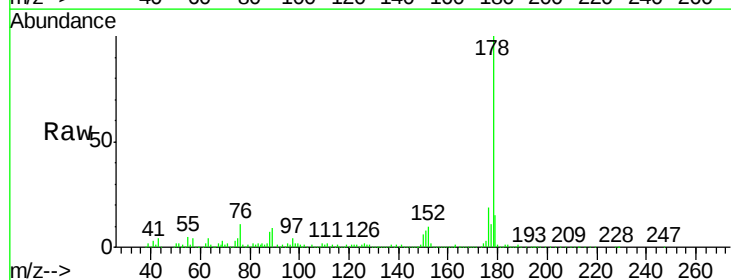
Manual Integrations
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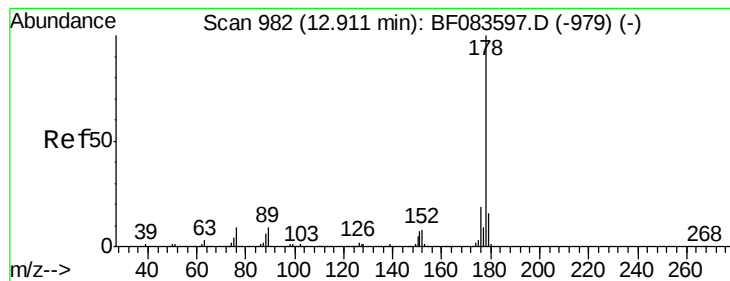
MMdadoda
12/10/2015 5:50:29 PM



#70
Phenanthrene
Concen: 22.34 ng
RT: 12.80 min Scan# 972
Delta R.T. -0.02 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	455878		
176	18.8		15.7	23.5
179	15.2		12.2	18.4





#71

Anthracene

Concen: 8.03 ng

RT: 12.89 min Scan# 980

Delta R.T. -0.02 min

Lab File: BF083666.D

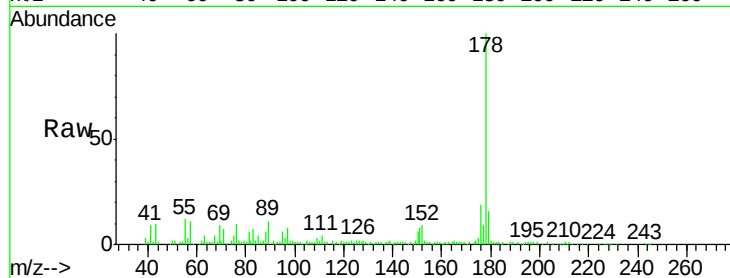
Acq: 10 Dec 2015 5:15

Instrument :

BNA_F

ClientSampleId :

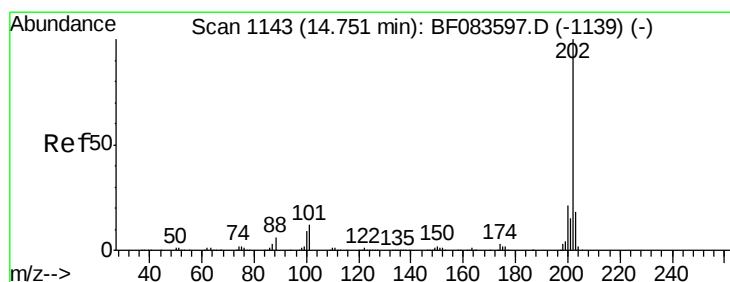
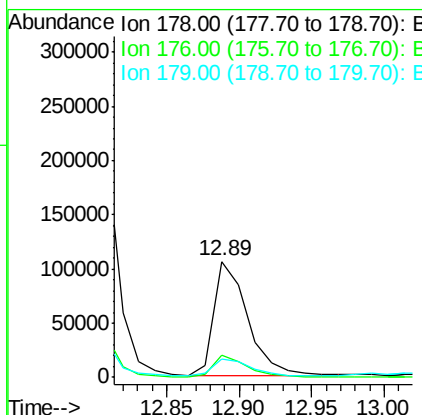
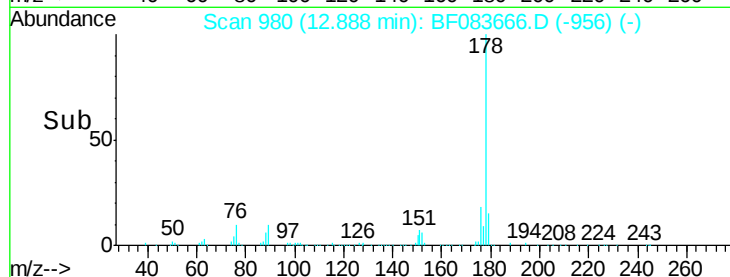
SB-P3WC-08(0-8)DL



Tot Ion	178	Resp	169718
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.2	22.8
179	16.3	12.6	18.8

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#74

Fluoranthene

Concen: 15.41 ng

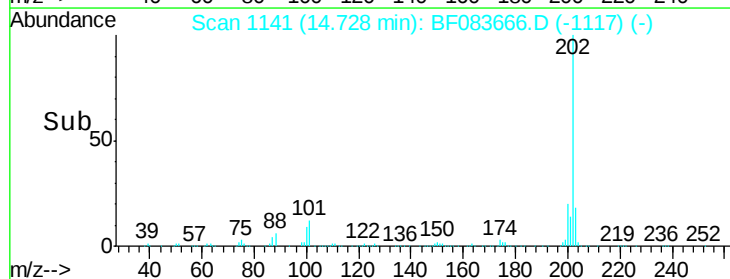
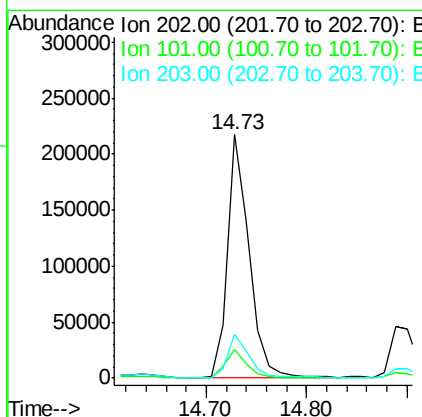
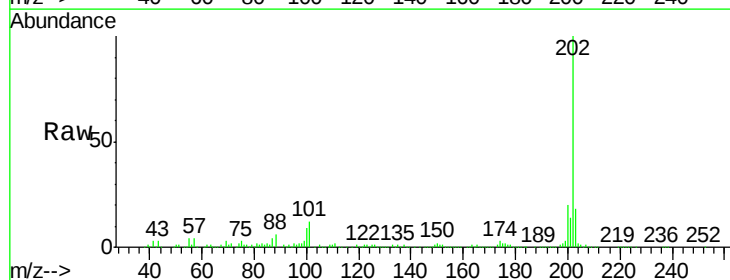
RT: 14.73 min Scan# 1141

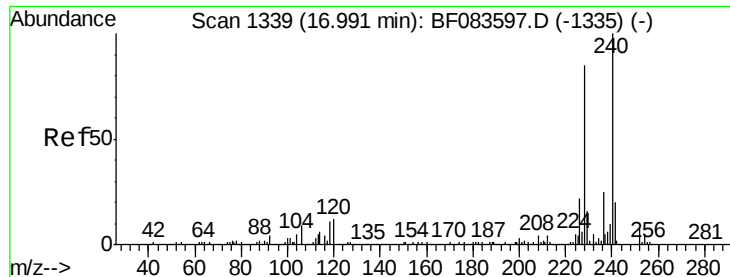
Delta R.T. -0.02 min

Lab File: BF083666.D

Acq: 10 Dec 2015 5:15

Tgt Ion	202	Resp	321706
Ion Ratio	Lower	Upper	
202	100		
101	11.8	0.0	31.5
203	17.8	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.98 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF083666.D

Acq: 10 Dec 2015 5:15

Instrument :

BNA_F

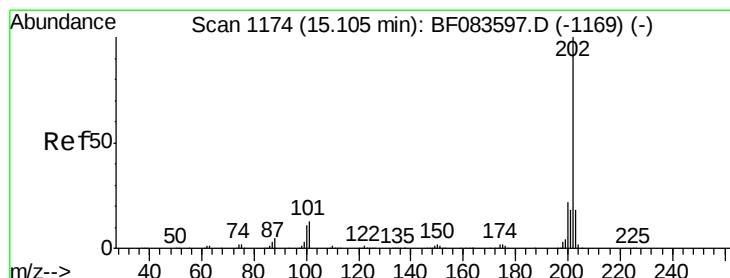
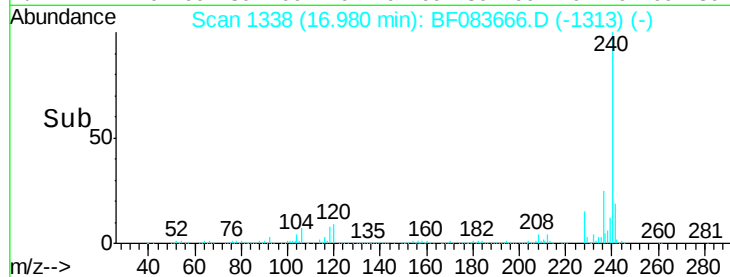
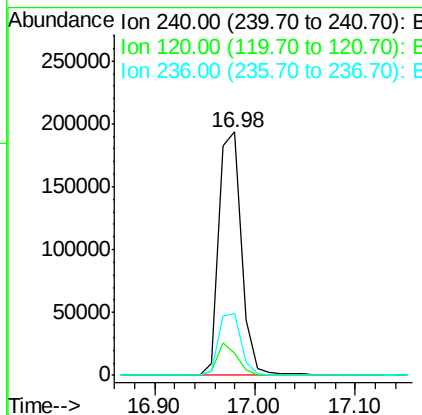
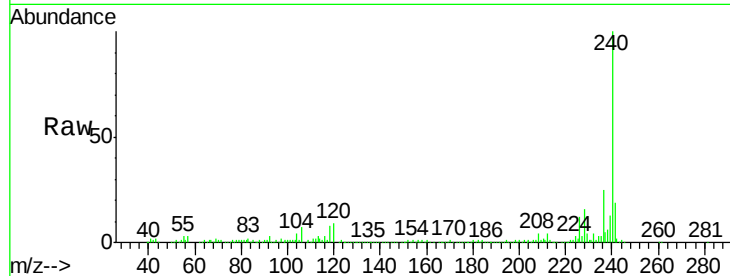
ClientSampleId :

SB-P3WC-08(0-8)DL

Tot Ion:	240	Resp:	303024
Ion Ratio	Lower	Upper	
240	100		
120	9.0	8.1	12.1
236	25.5	20.8	31.2

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#77

Pyrene

Concen: 22.21 ng

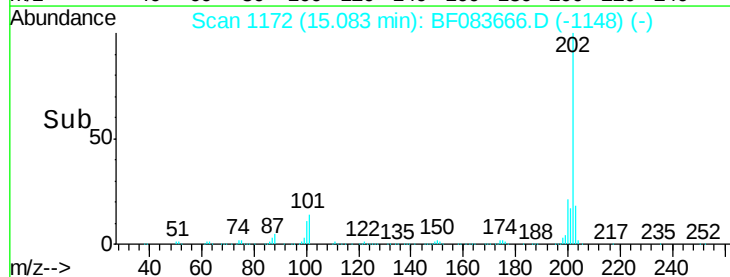
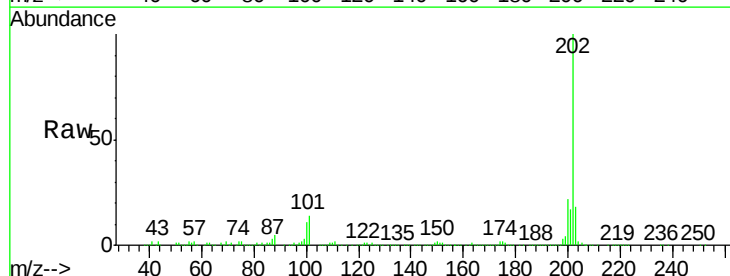
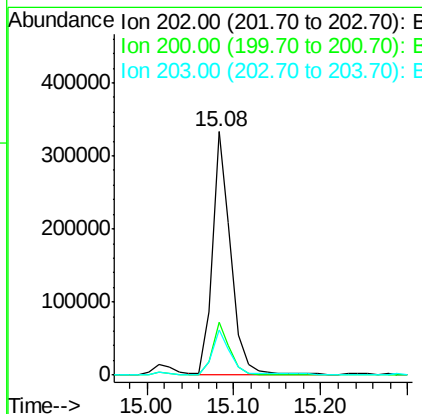
RT: 15.08 min Scan# 1172

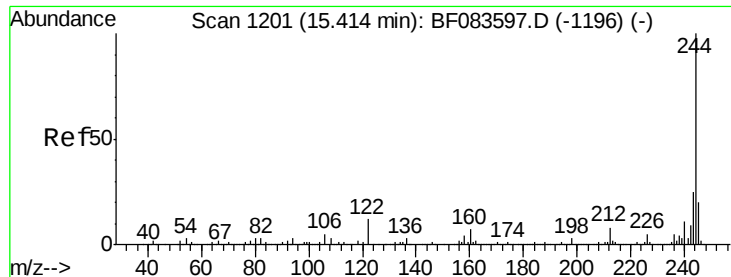
Delta R.T. -0.02 min

Lab File: BF083666.D

Acq: 10 Dec 2015 5:15

Tgt Ion:	202	Resp:	484549
Ion Ratio	Lower	Upper	
202	100		
200	21.5	16.7	25.1
203	18.5	14.3	21.5





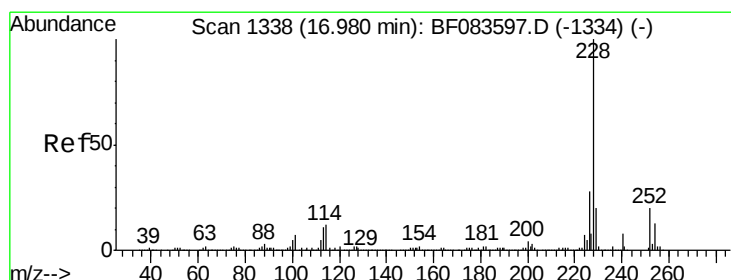
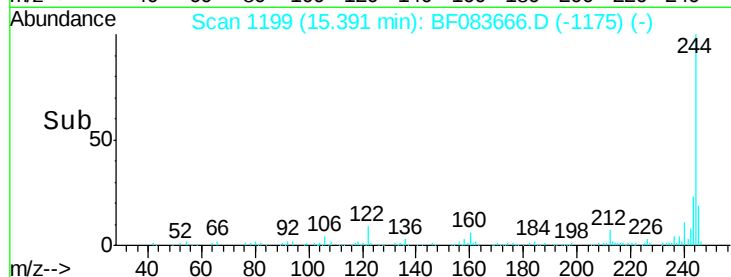
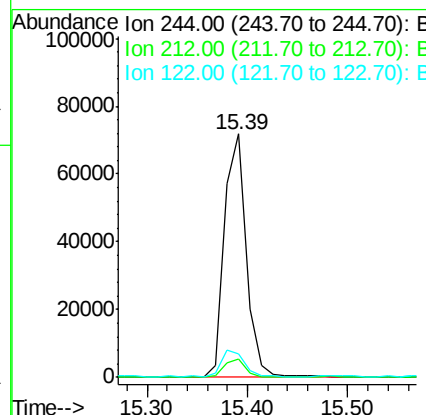
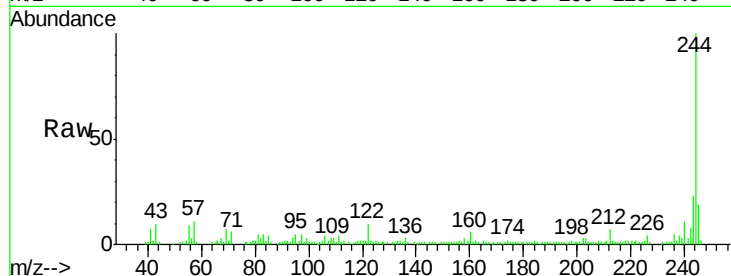
#78
 Terphenyl-d14
 Concen: 8.45 ng
 RT: 15.39 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: BF083666.D
 Acq: 10 Dec 2015 5:15

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	7.4	6.1	9.1
122	9.8	11.0	16.6#

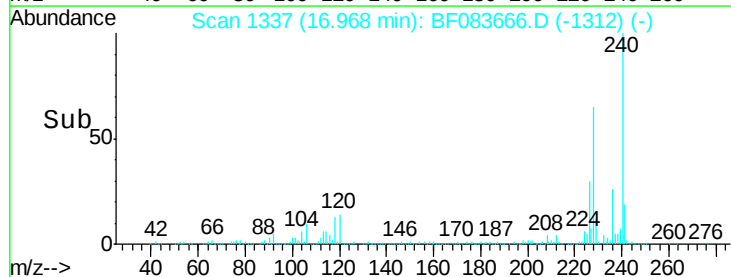
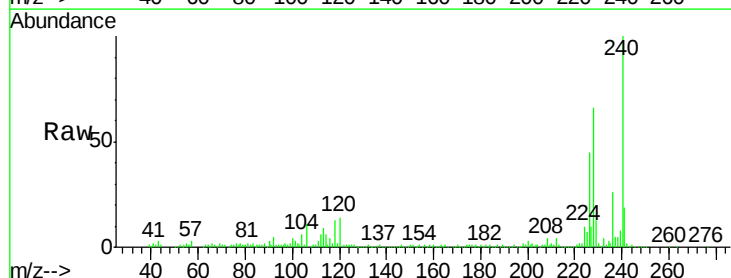
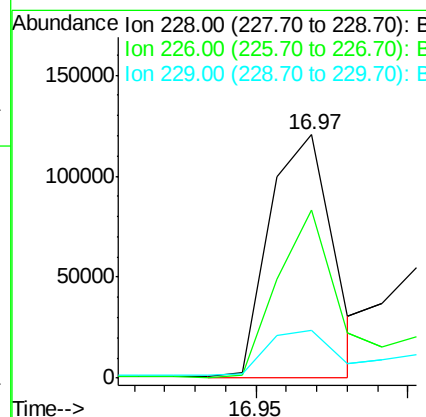
Manual Integrations
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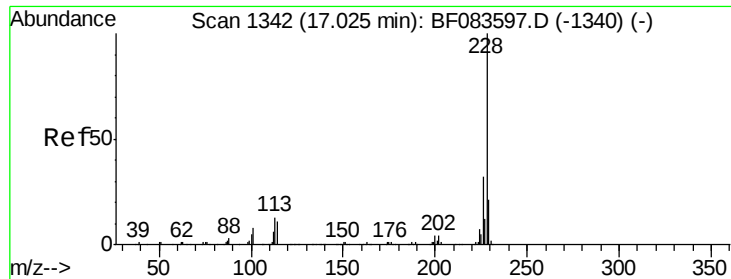
MMdadoda
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#80
 Benzo(a)anthracene
 Concen: 9.80 ng m
 RT: 16.97 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: BF083666.D
 Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	68.9	22.3	33.5#
229	19.5	15.7	23.5





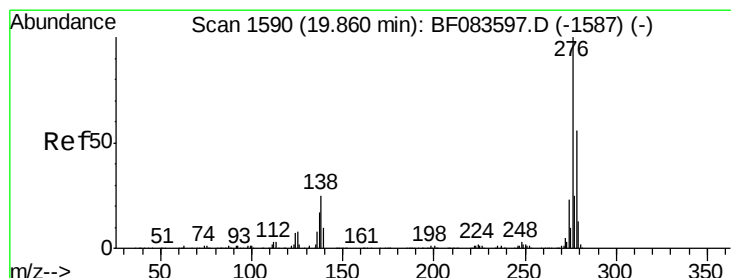
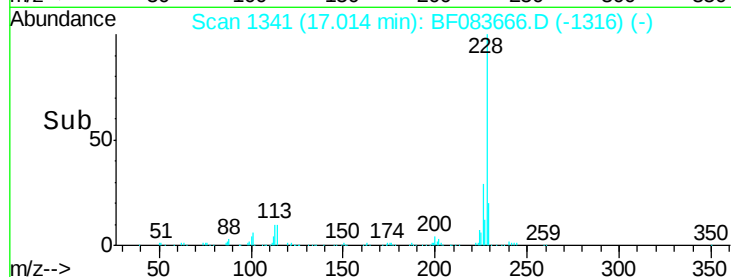
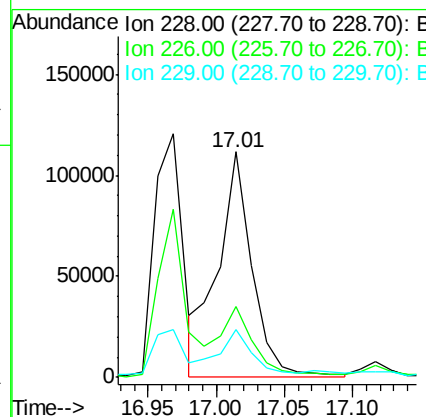
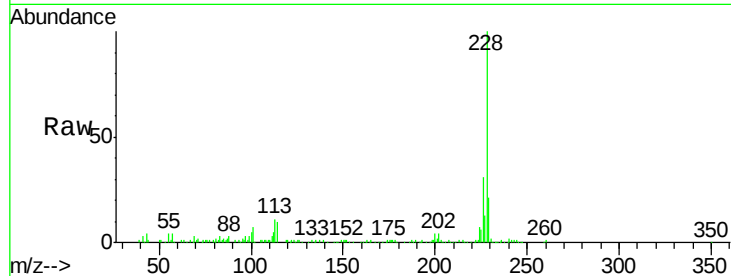
#82
Chrysene
Concen: 11.13 ng/mL
RT: 17.01 min Scan# 1341
Delta R.T. -0.01 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.7	37.1
229	21.0	16.3	24.5

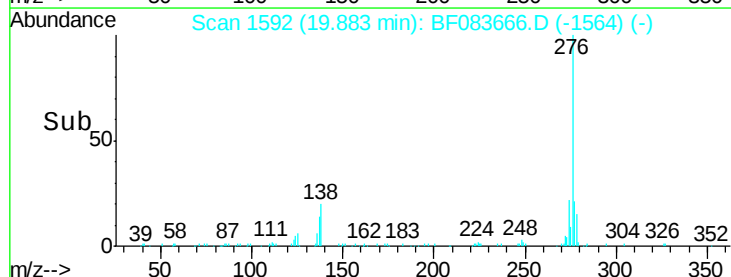
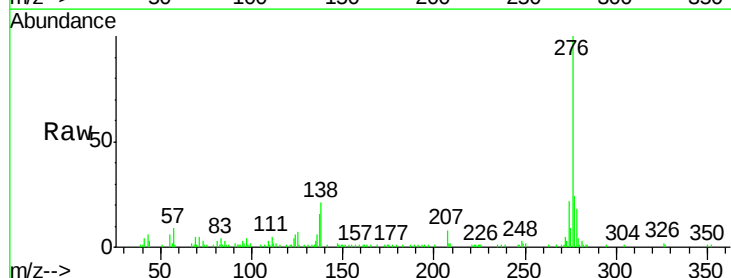
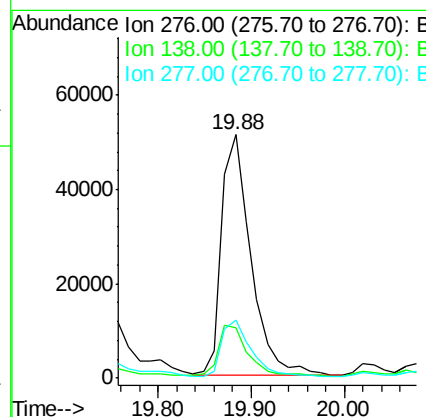
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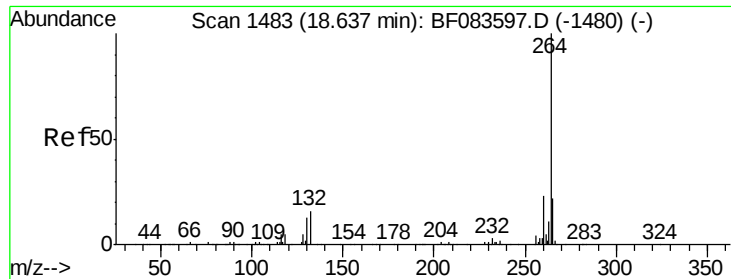
MMdadoda
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#85
Indeno(1,2,3-cd)pyrene
Concen: 9.26 ng/mL
RT: 19.88 min Scan# 1592
Delta R.T. 0.02 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.3	0.0	0.0#
277	23.6	0.0	0.0#





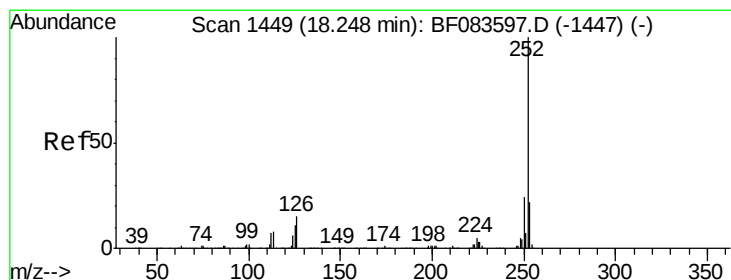
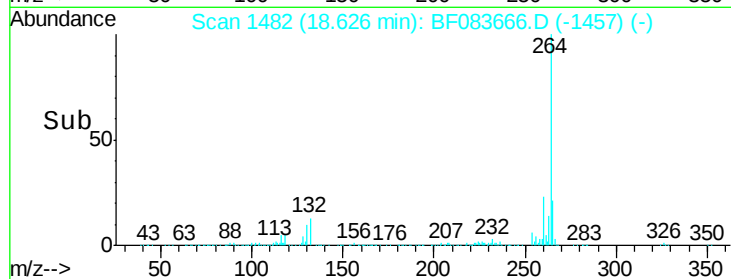
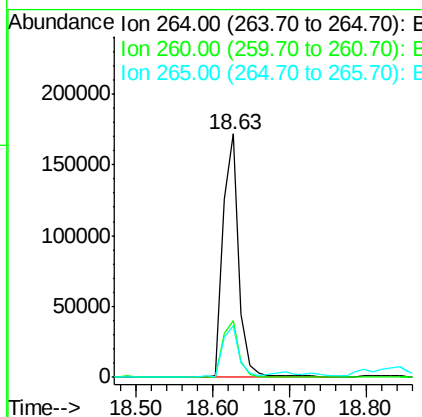
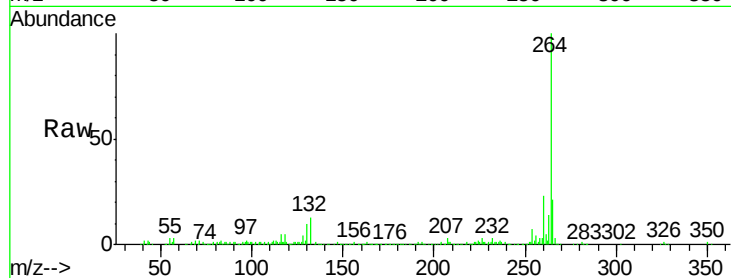
#86
Pervlene-d12
Concen: 20.00 ng
RT: 18.63 min Scan# 1482
Delta R.T. -0.01 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.4	29.0
265	21.2	17.8	26.6

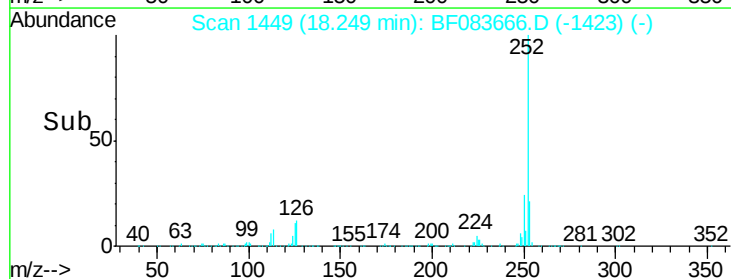
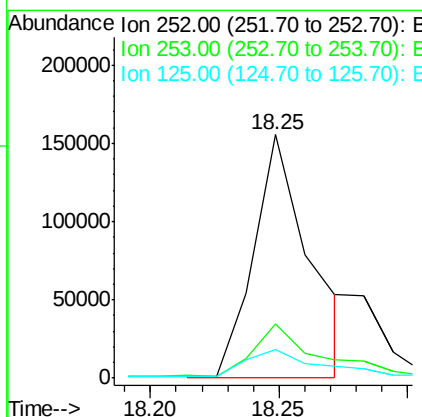
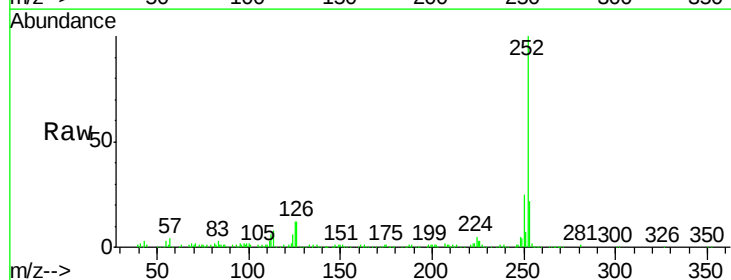
Manual Integrations
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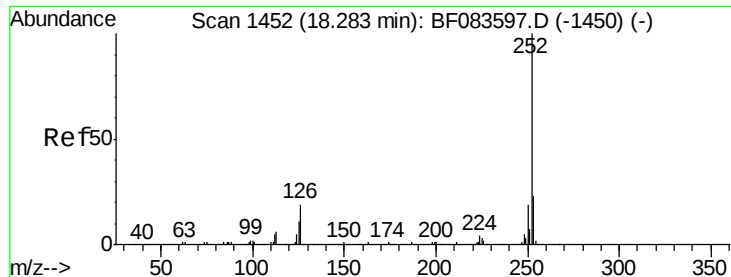
MMdadoda
12/10/2015 5:50:29 PM



#87
Benzo(b)fluoranthene
Concen: 16.56 ng m
RT: 18.25 min Scan# 1449
Delta R.T. 0.00 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.2	27.4
125	11.9	8.2	12.4





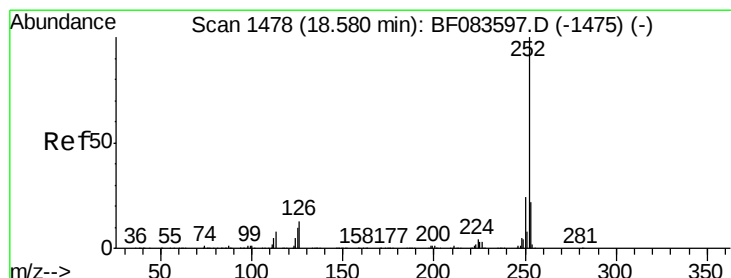
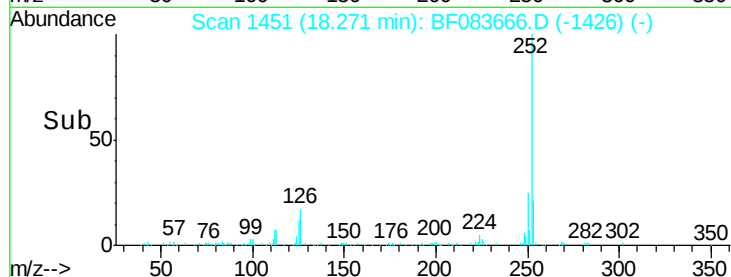
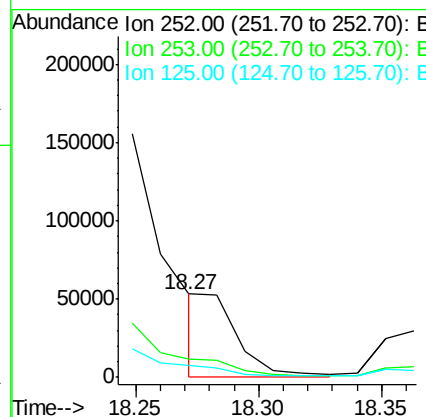
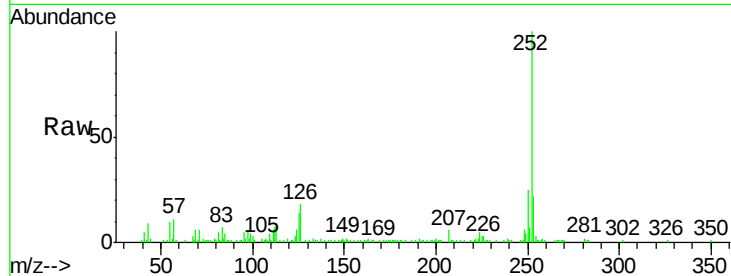
#88
Benzo(k)fluoranthene
Concen: 3.36 ng m
RT: 18.27 min Scan# 1451
Delta R.T. -0.01 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.6	27.8
125	13.9	11.5	17.3

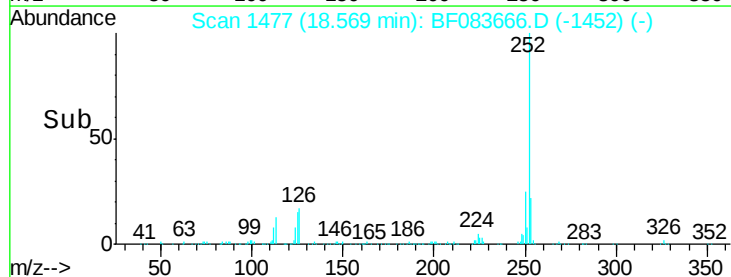
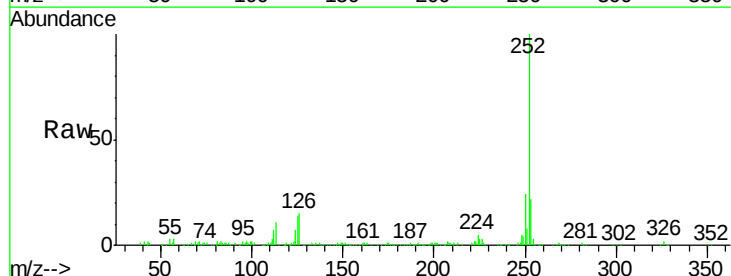
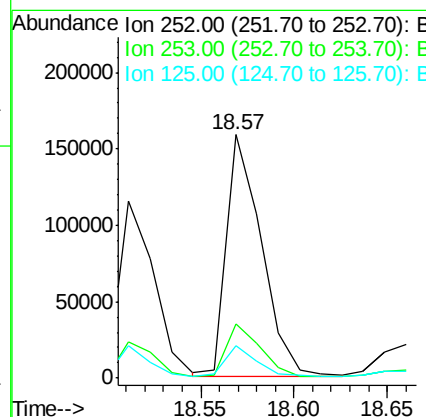
Manual Integrations
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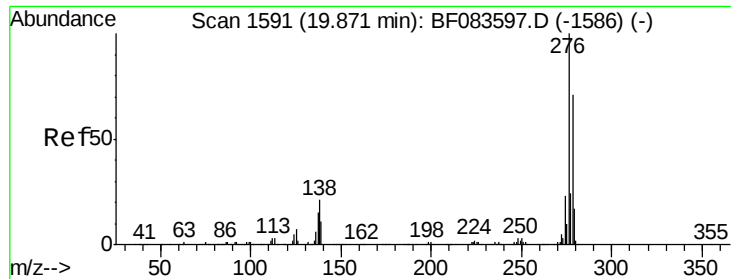
MMdadoda
12/10/2015 5:50:29 PM



#89
Benzo(a)pyrene
Concen: 15.08 ng
RT: 18.57 min Scan# 1477
Delta R.T. -0.01 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	13.5	11.0	16.6





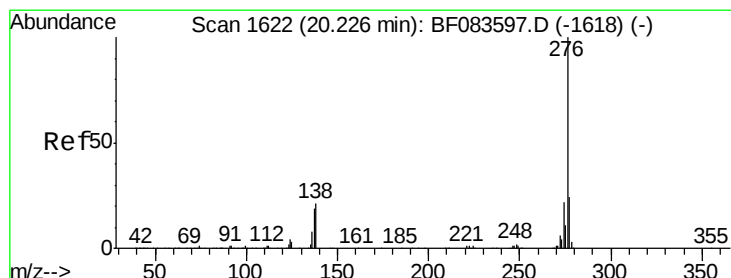
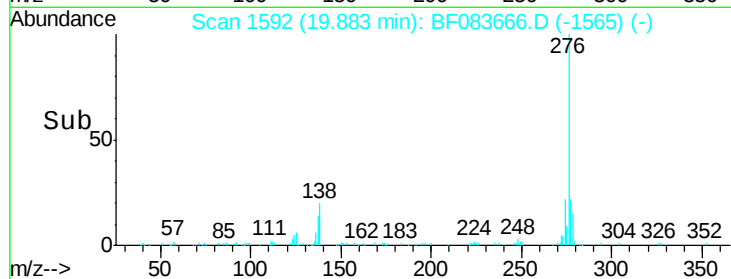
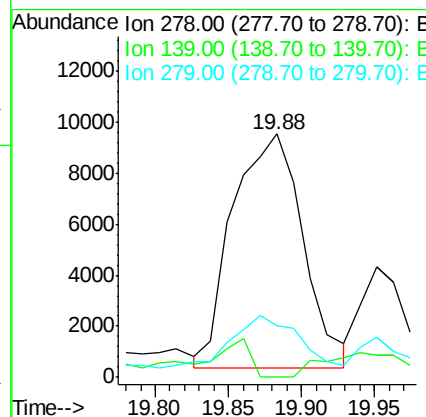
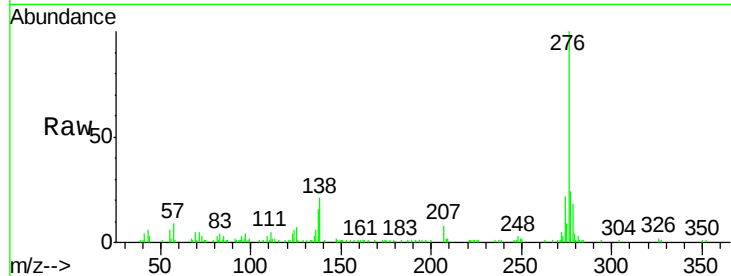
#90
Dibenzo(a,h)anthracene
Concen: 2.90 ng/mL
RT: 19.88 min Scan# 1592
Delta R.T. 0.01 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.8	19.2
279	21.0	18.6	28.0

Manual Integrations
APPROVED

MMdadoda
12/10/2015 5:50:29 PM



#91
Benzo(g,h,i)perylene
Concen: 13.14 ng/mL
RT: 20.23 min Scan# 1622
Delta R.T. 0.00 min
Lab File: BF083666.D
Acq: 10 Dec 2015 5:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.2	28.8
138	23.5	19.5	29.3

