

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
 Data File : BF083673.D
 Acq On : 10 Dec 2015 8:45
 Operator : UM/IZ
 Sample : G4582-04DL 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)DL

Manual Integrations
 APPROVED

MMdadoda
 12/10/2015 5:50:49 PM

Quant Time: Dec 10 12:32:09 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	130423	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	506278	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	225489	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	354077	20.00	ng	-0.02
75) Chrysene-d12	16.97	240	297563	20.00	ng	-0.02
86) Perylene-d12	18.63	264	253060	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.01	112	68884	8.01	ng	0.03
7) Phenol-d6	5.29	99	112709	9.81	ng	0.01
23) Nitrobenzene-d5	6.54	82	69207	6.38	ng	0.01
41) 2,4,6-Tribromophenol	11.68	330	14478	7.21	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	135237	8.44	ng	-0.02
78) Terphenyl-d14	15.39	244	93606	7.40	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.62	128	87361	3.26	ng	99
51) Acenaphthene	10.42	154	54568	3.91	ng	98
57) Fluorene	11.26	166	38672	2.29	ng	97
70) Phenanthrene	12.80	178	530906	26.10	ng	98
71) Anthracene	12.90	178	117168	5.56	ng	96
72) Carbazole	13.21	167	62196	3.44	ng	98
74) Fluoranthene	14.73	202	718365	34.52	ng	99
77) Pyrene	15.08	202	621194	29.00	ng	# 95
80) Benzo(a)anthracene	16.96	228	291469	16.74	ng	96
82) Chrysene	17.01	228	287231	16.45	ng	100
85) Indeno(1,2,3-cd)pyrene	19.87	276	111829	9.49	ng	# 100
87) Benzo(b)fluoranthene	18.25	252	299750m	20.80	ng	
88) Benzo(k)fluoranthene	18.27	252	116063m	7.31	ng	
89) Benzo(a)pyrene	18.57	252	205923	14.64	ng	97
90) Dibenzo(a,h)anthracene	19.87	278	31130m	2.90	ng	
91) Benzo(g,h,i)perylene	20.24	276	110984	10.59	ng	92

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

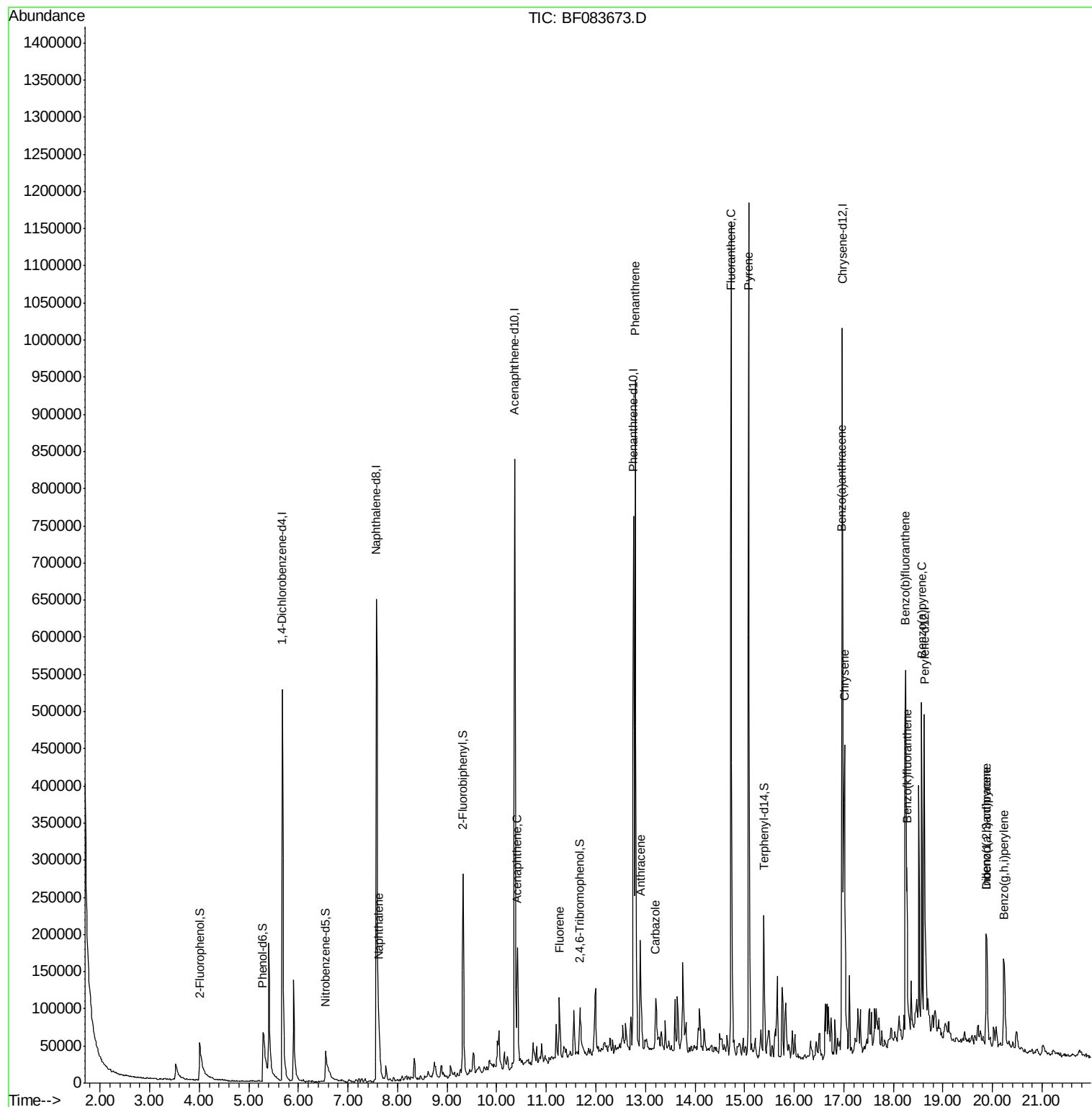
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
Data File : BF083673.D
Acq On : 10 Dec 2015 8:45
Operator : UM/IZ
Sample : G4582-04DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

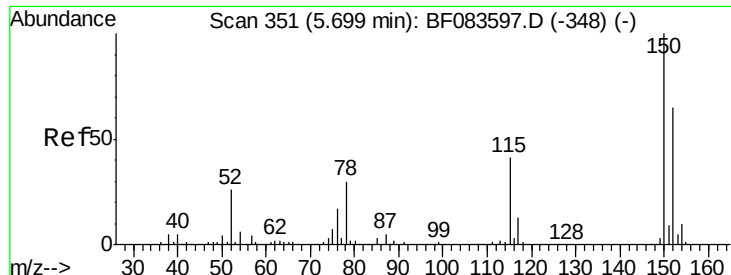
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)DL

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Quant Time: Dec 10 12:32:09 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

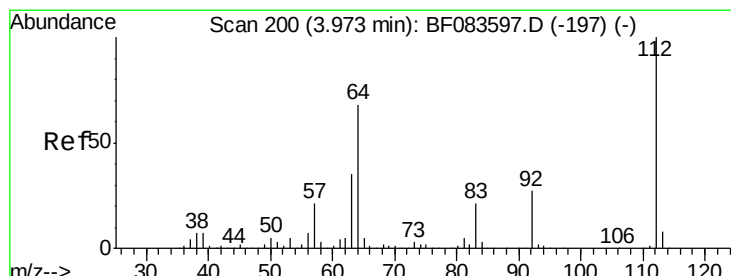
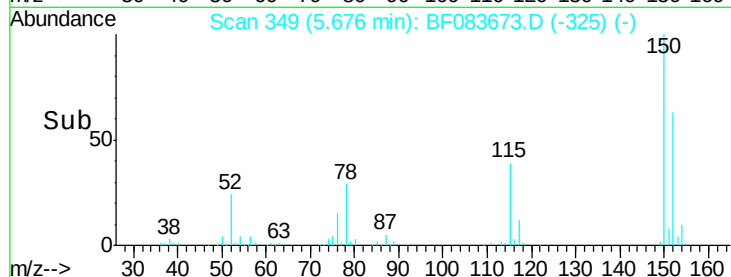
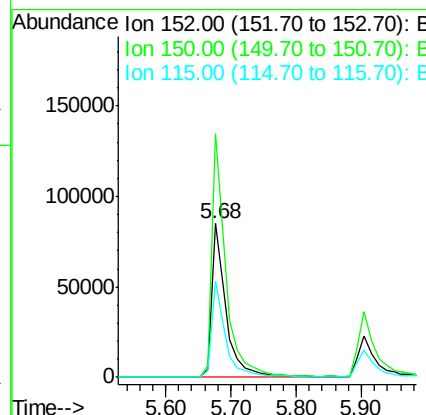
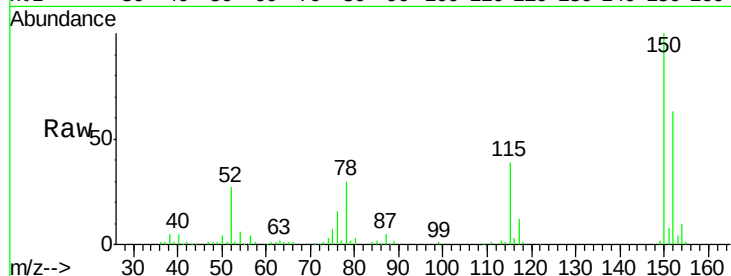
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.68 min Scan# 349
Delta R.T. -0.02 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.4	126.5	189.7
115	62.5	52.3	78.5

Manual Integrations
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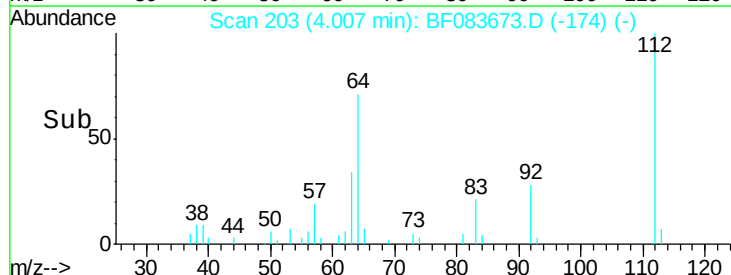
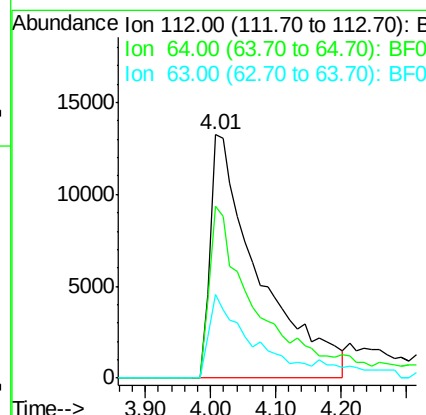
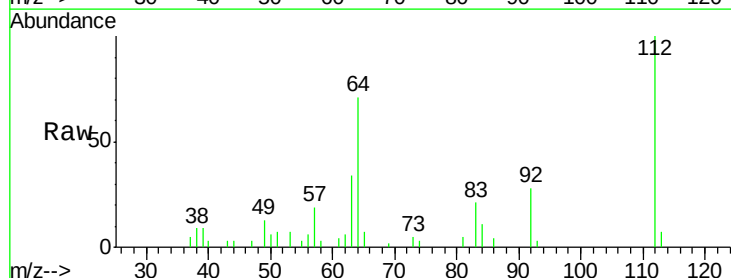
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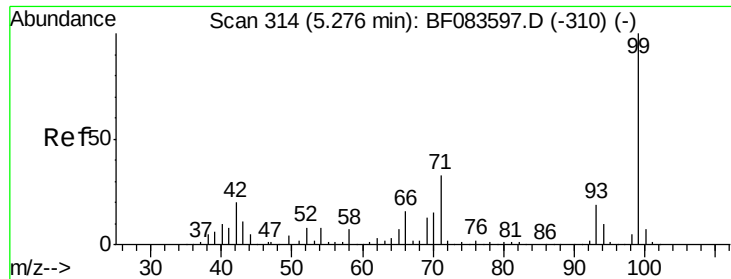


#5

2-Fluorophenol
Concen: 8.01 ng
RT: 4.01 min Scan# 203
Delta R.T. 0.03 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.7	50.5	75.7
63	34.3	25.8	38.6





#7

Phenol-d6

Concen: 9.81 ng

RT: 5.29 min Scan# 315

Delta R.T. 0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

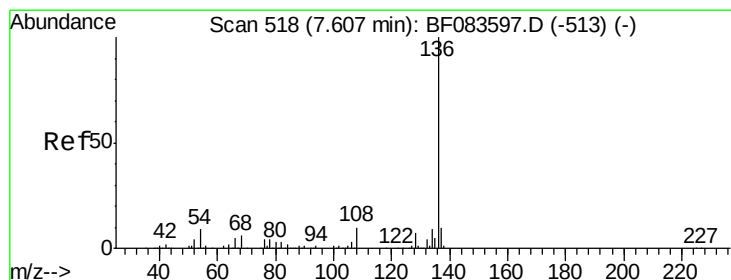
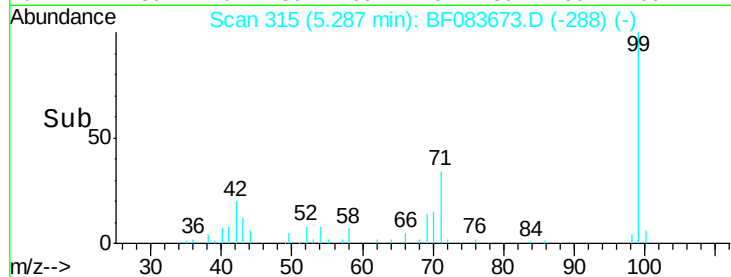
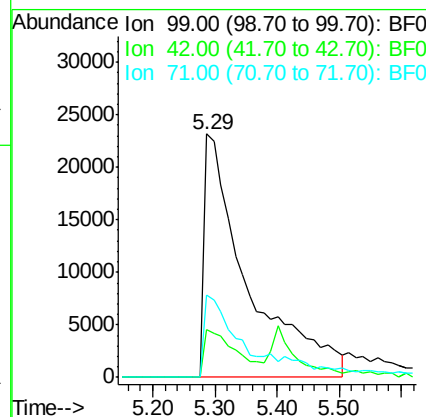
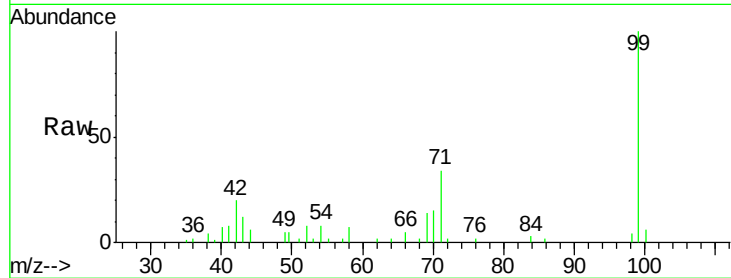
ClientSampleId :

SB-P3WC-03(0-8)DL

Tot Ion:	99	Resp:	112709
Ion Ratio	Lower	Upper	
99	100		
42	19.6	17.3	25.9
71	33.8	26.6	40.0

Manual Integrations
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#21

Naphthalene-d8

Concen: 20.00 ng

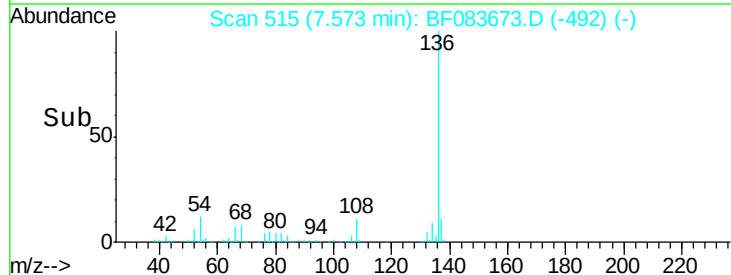
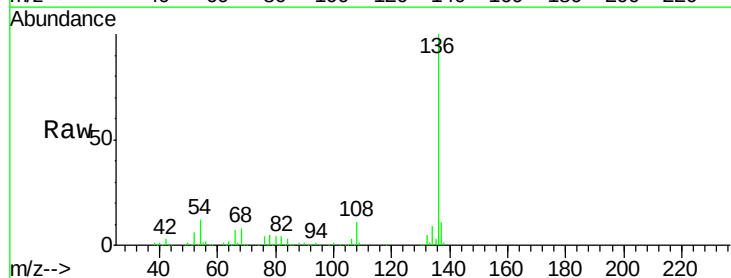
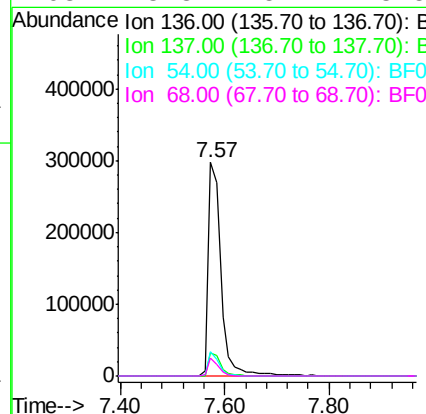
RT: 7.57 min Scan# 515

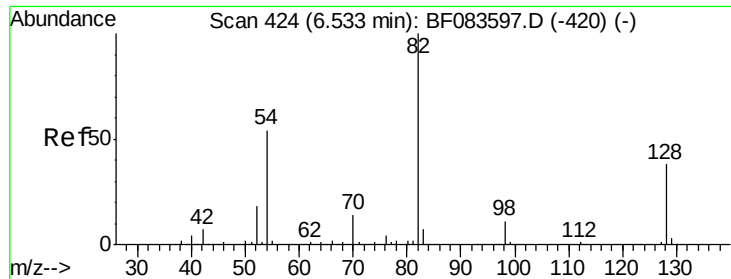
Delta R.T. -0.03 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Tgt Ion:	136	Resp:	506278
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.7	13.1
54	11.6	7.8	11.6
68	8.3	5.7	8.5





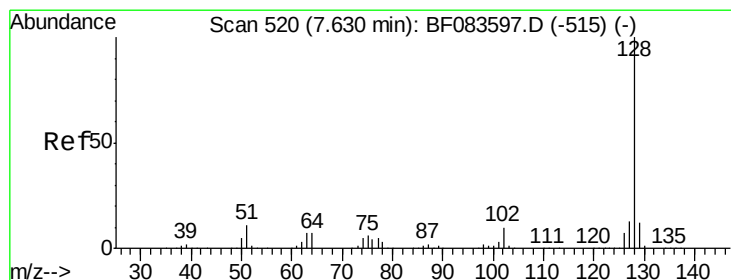
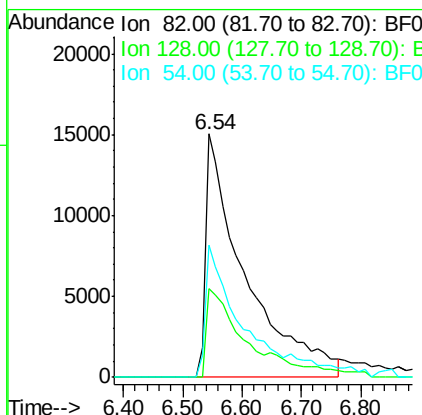
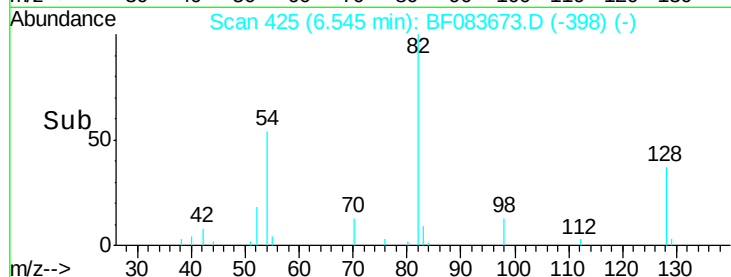
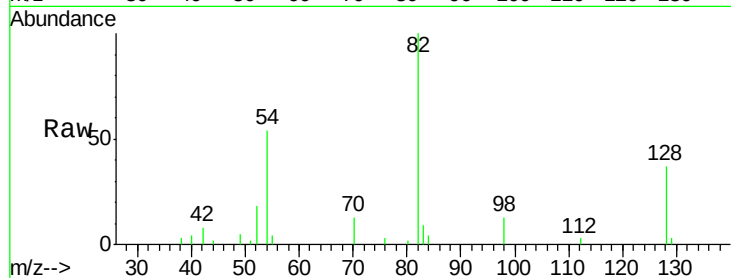
#23
 Nitrobenzene-d5
 Concen: 6.38 ng
 RT: 6.54 min Scan# 425
 Delta R.T. 0.01 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	36.6	30.7	46.1
54	54.3	42.5	63.7

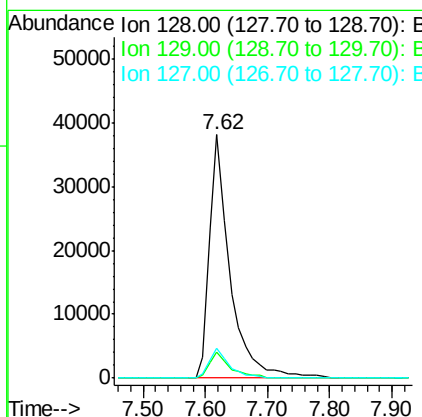
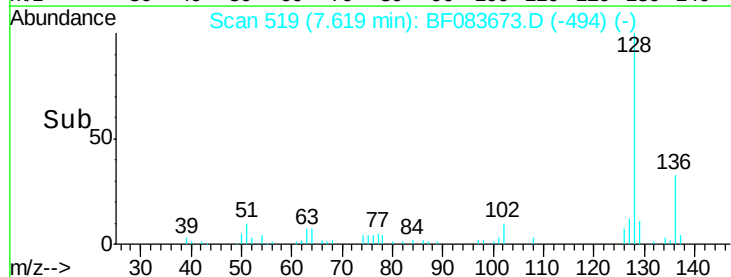
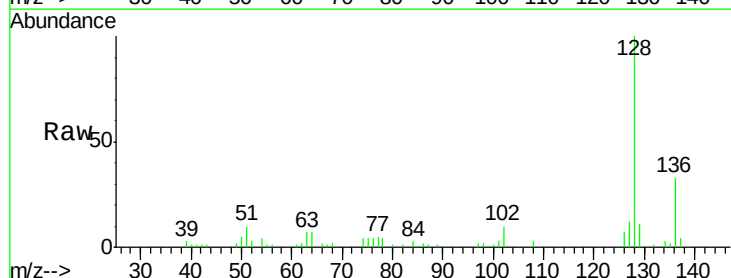
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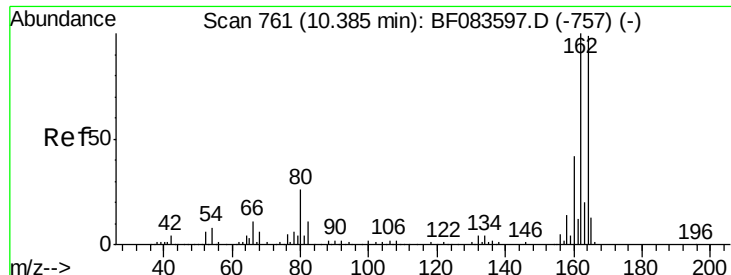
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#31
 Naphthalene
 Concen: 3.26 ng
 RT: 7.62 min Scan# 519
 Delta R.T. -0.01 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	12.5	10.6	16.0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.36 min Scan# 759

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

Tot Ion:164 Resp: 225489

Ion Ratio Lower Upper

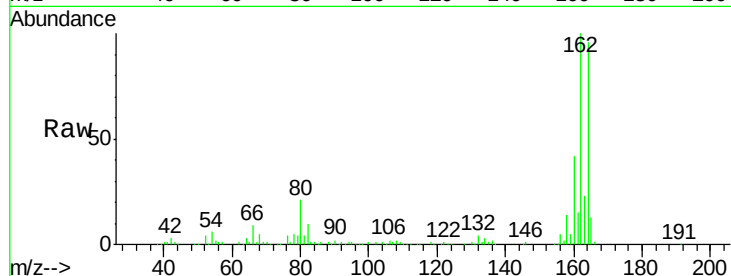
164 100

162 103.7 78.8 118.2

160 44.1 33.4 50.2

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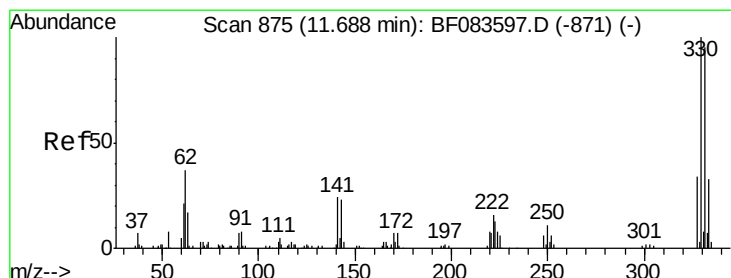
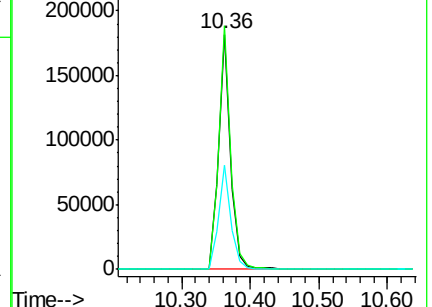
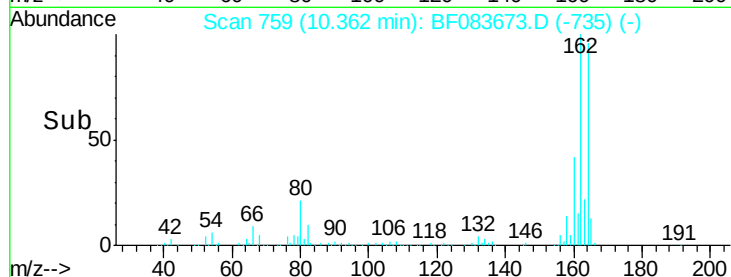
MMdadoda
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 7.21 ng

RT: 11.68 min Scan# 874

Delta R.T. -0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

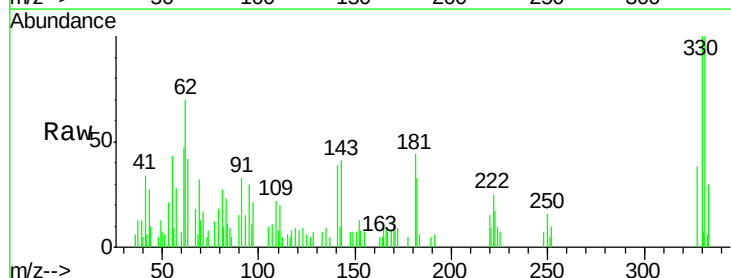
Tgt Ion:330 Resp: 14478

Ion Ratio Lower Upper

330 100

332 99.5 0.0 0.0#

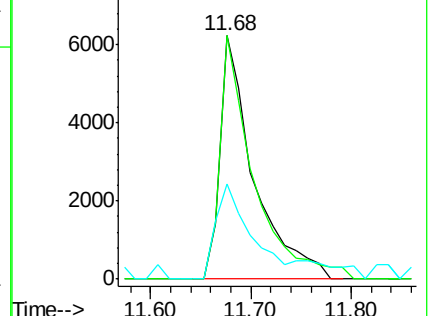
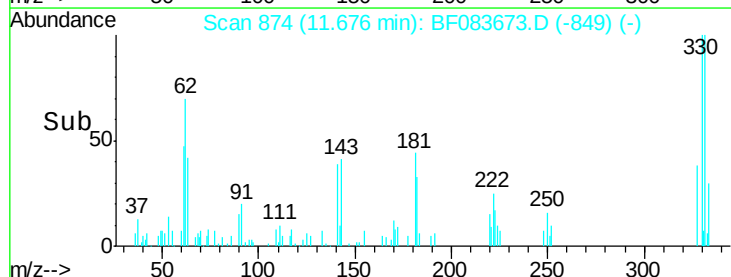
141 51.6 0.0 0.0#

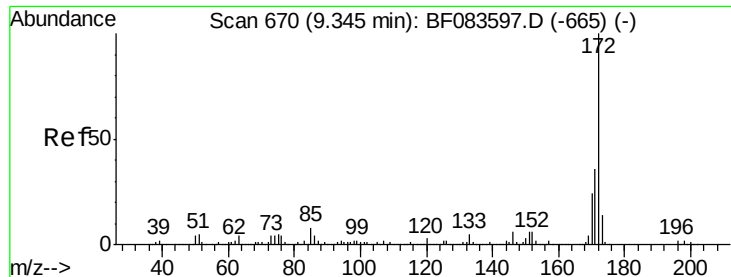


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 8.44 ng

RT: 9.32 min Scan# 668

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

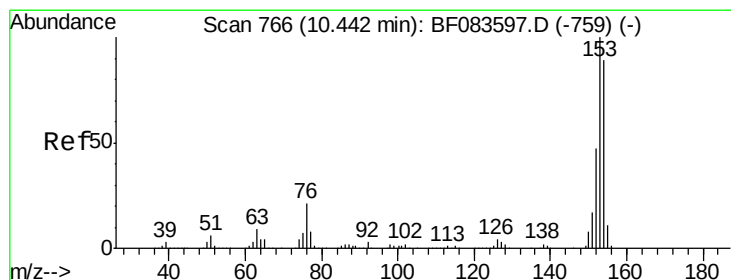
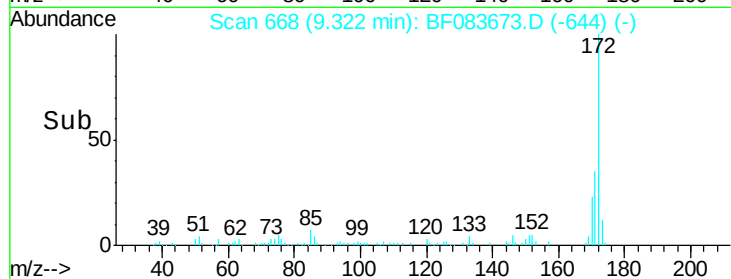
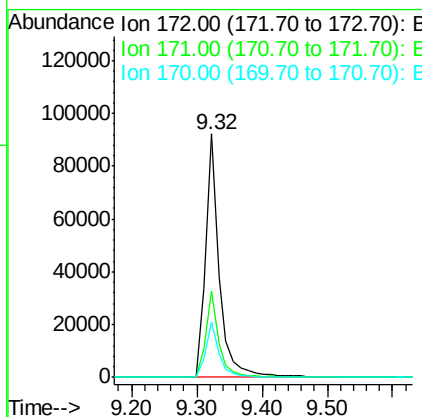
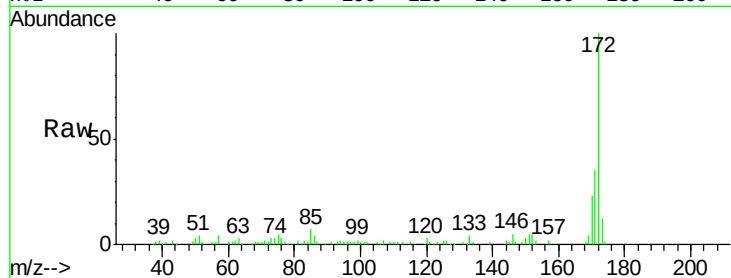
ClientSampleId :

SB-P3WC-03(0-8)DL

Tot Ion:	172	Resp:	135237
Ion Ratio	Lower	Upper	
172	100		
171	35.2	28.6	42.8
170	22.9	19.4	29.0

Manual Integrations
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#51

Acenaphthene

Concen: 3.91 ng

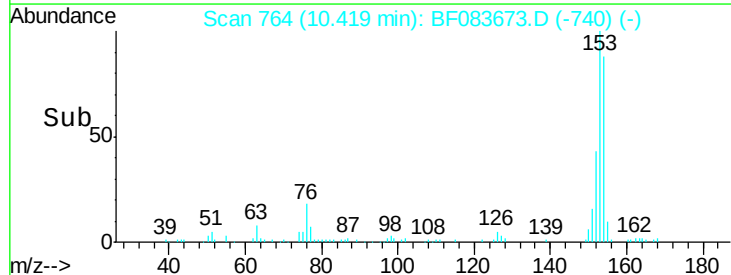
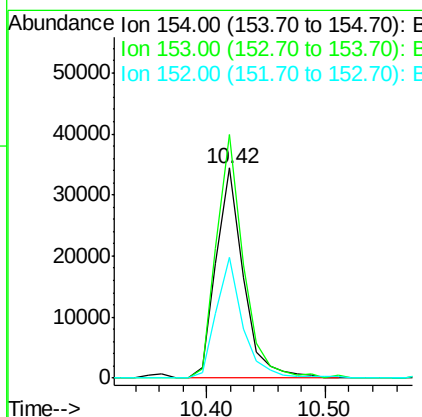
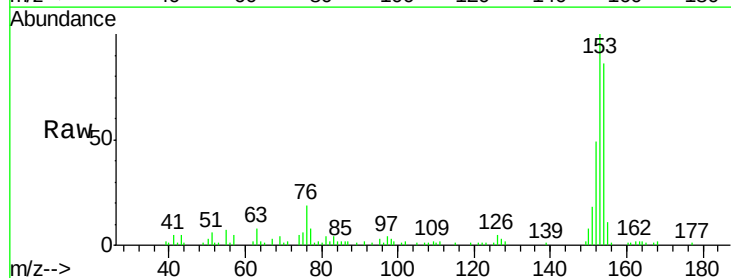
RT: 10.42 min Scan# 764

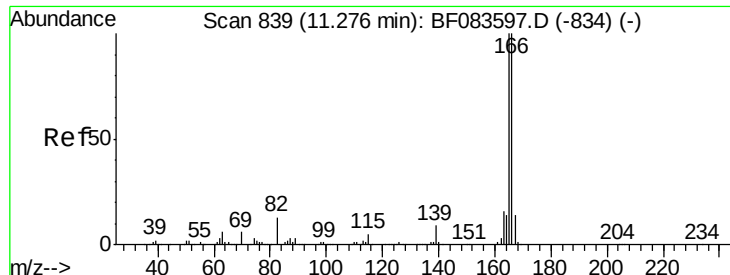
Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Tgt Ion:	154	Resp:	54568
Ion Ratio	Lower	Upper	
154	100		
153	115.8	91.4	137.0
152	57.3	43.4	65.2





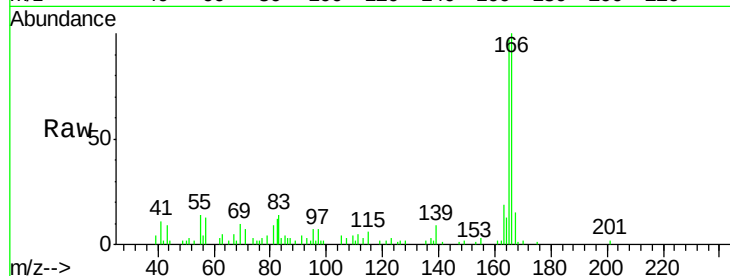
#57
Fluorene
Concen: 2.29 ng
RT: 11.26 min Scan# 838
Delta R.T. -0.01 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		38672		
165	97.1	80.0	120.0		
167	14.6	10.6	16.0		

Manual Integrations
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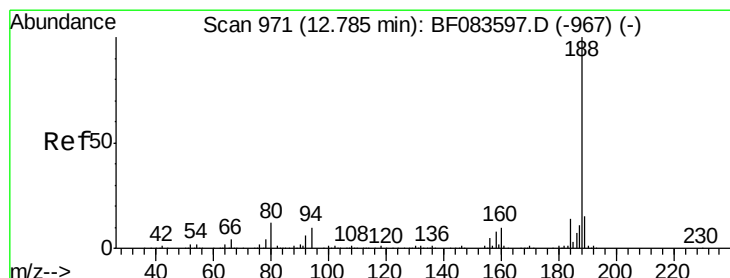
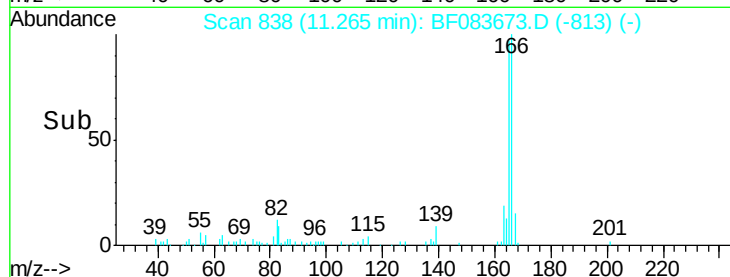
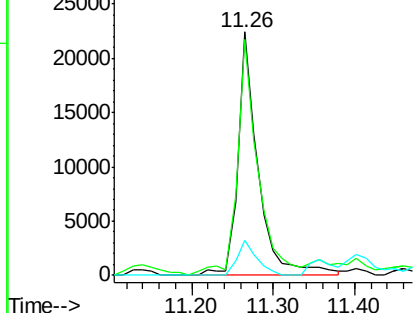


Abundance

Ion 166.00 (165.70 to 166.70): E

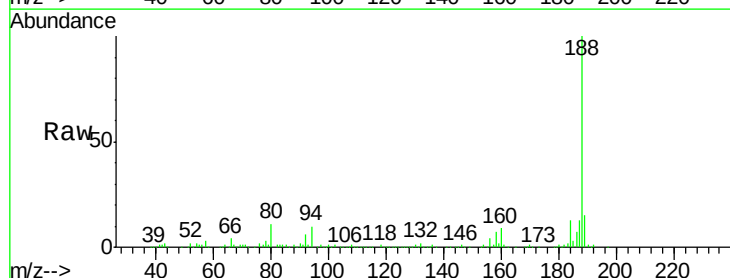
Ion 165.00 (164.70 to 165.70): E

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: BF083673.D
Acq: 10 Dec 2015 8:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		354077		
94	9.8	9.4	14.2		
80	10.8	10.6	16.0		

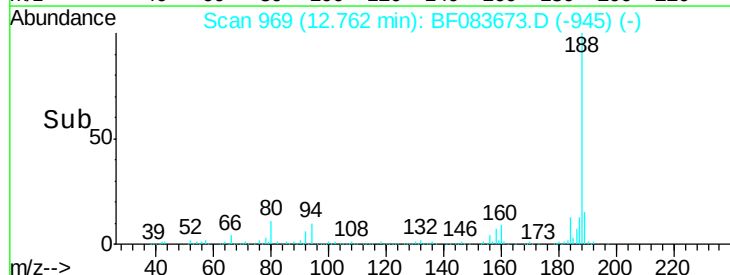
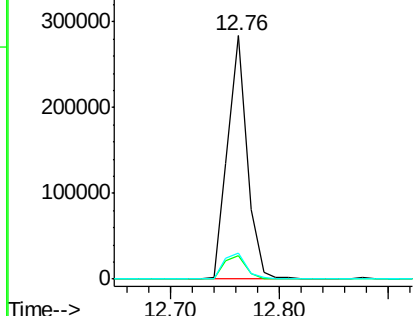


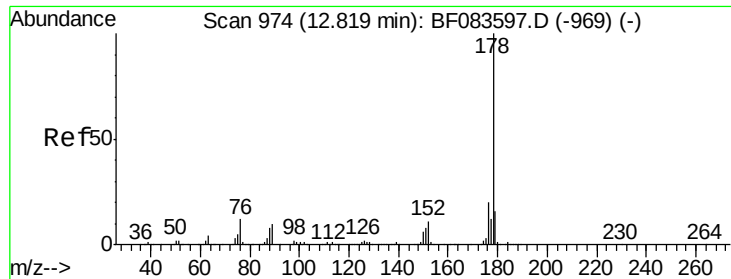
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





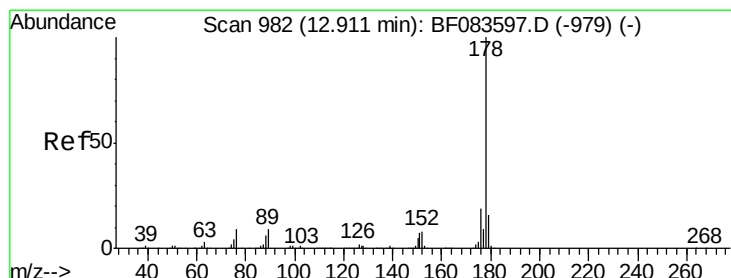
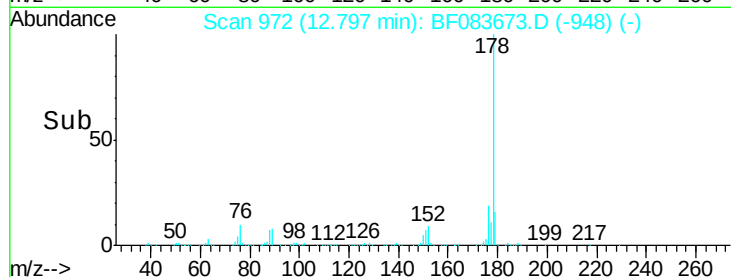
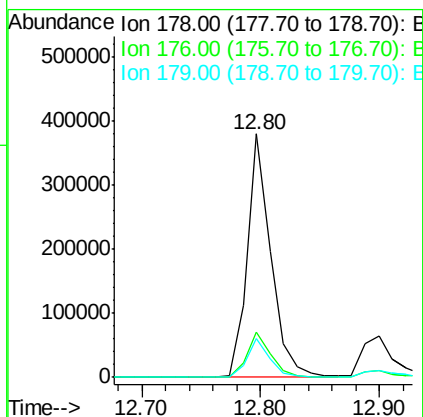
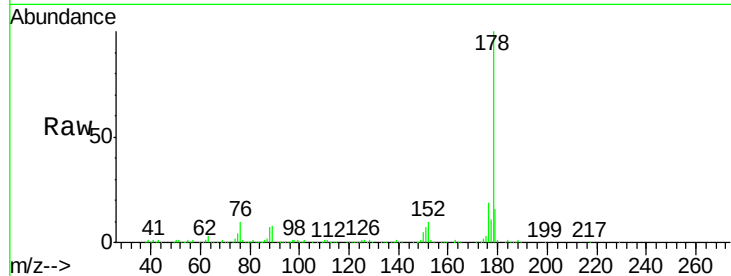
#70
Phenanthrene
Concen: 26.10 ng
RT: 12.80 min Scan# 972
Delta R.T. -0.02 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.7	23.5
179	15.7	12.2	18.4

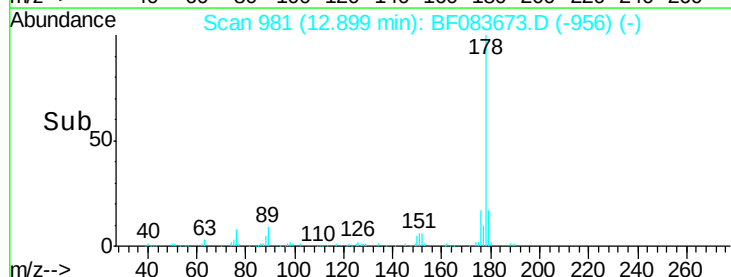
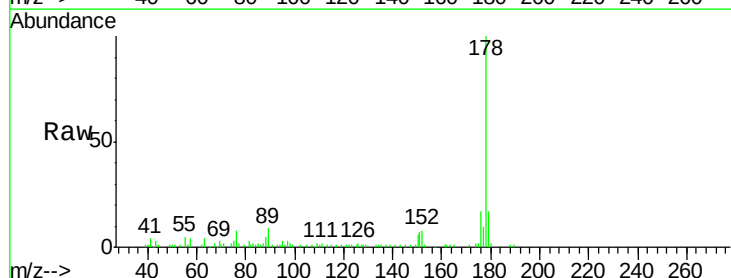
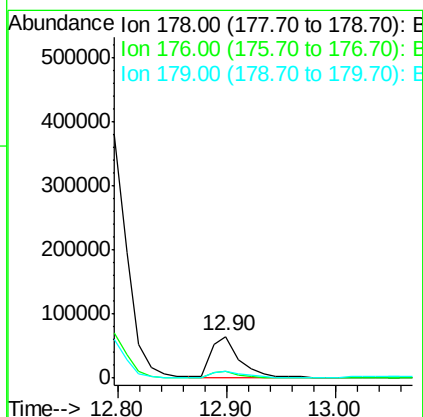
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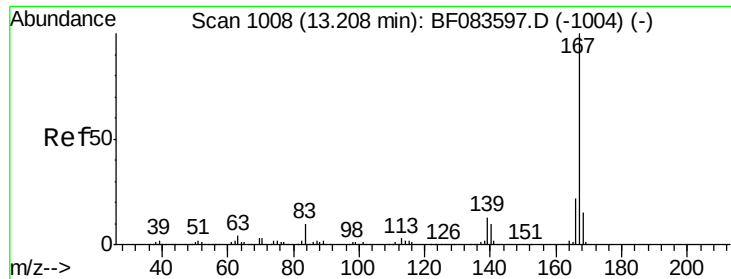
MMdadoda
12/10/2015 5:50:49 PM



#71
Anthracene
Concen: 5.56 ng
RT: 12.90 min Scan# 981
Delta R.T. -0.01 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.4	15.2	22.8
179	17.4	12.6	18.8





#72

Carbazole

Concen: 3.44 ng

RT: 13.21 min Scan# 1008

Delta R.T. 0.00 min

Lab File: BF083673.D

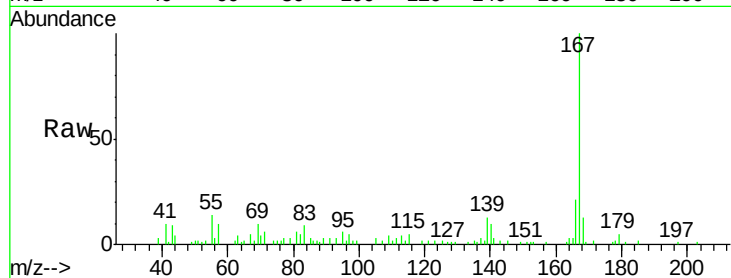
Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

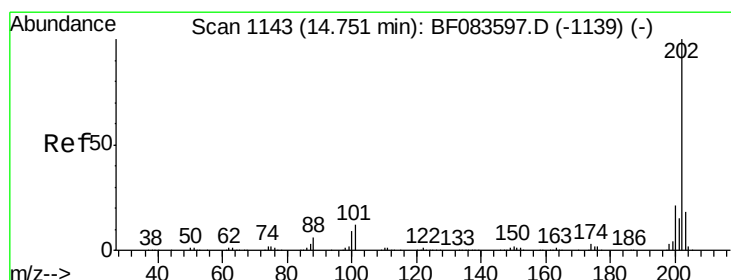
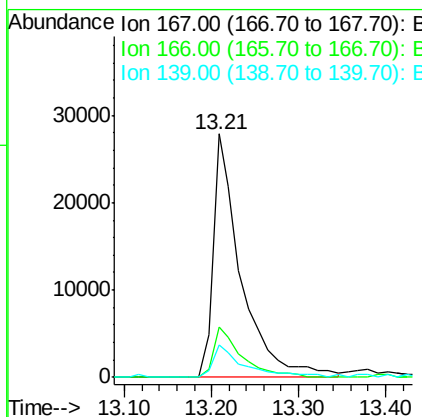
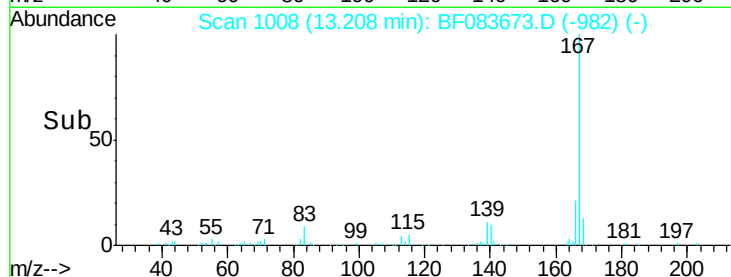
SB-P3WC-03(0-8)DL



Tot Ion:	167	Resp:	62196
Ion Ratio	Lower	Upper	
167	100		
166	20.9	17.2	25.8
139	13.2	9.3	13.9

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#74

Fluoranthene

Concen: 34.52 ng

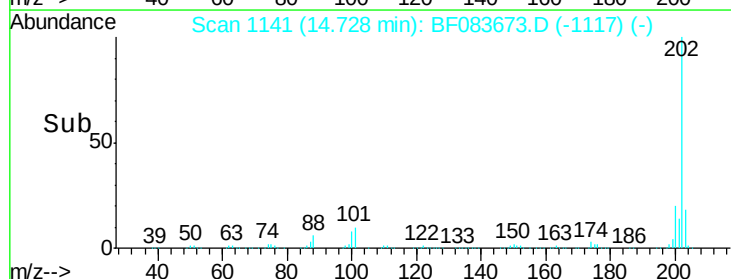
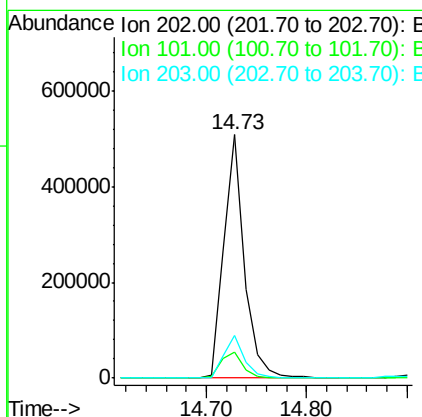
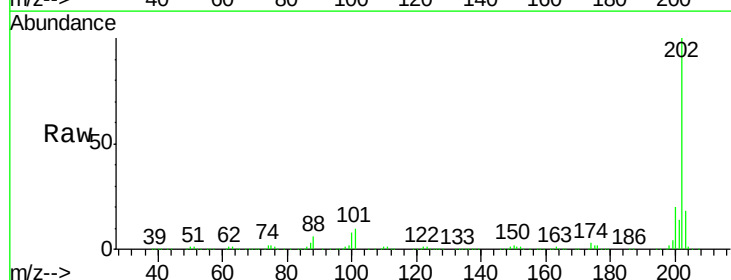
RT: 14.73 min Scan# 1141

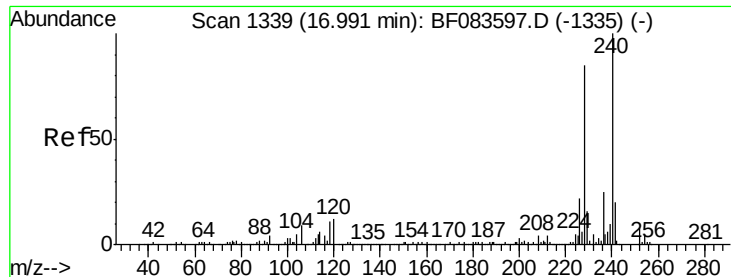
Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Tgt Ion:	202	Resp:	718365
Ion Ratio	Lower	Upper	
202	100		
101	10.4	0.0	31.5
203	17.7	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.97 min Scan# 1337

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

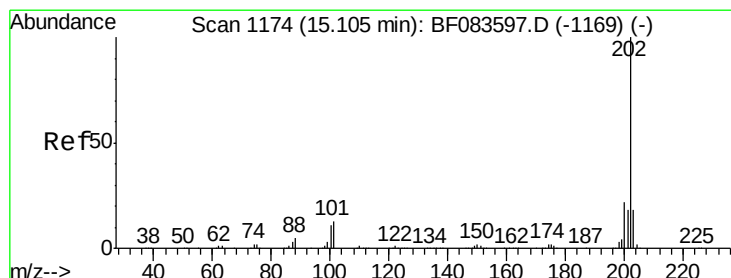
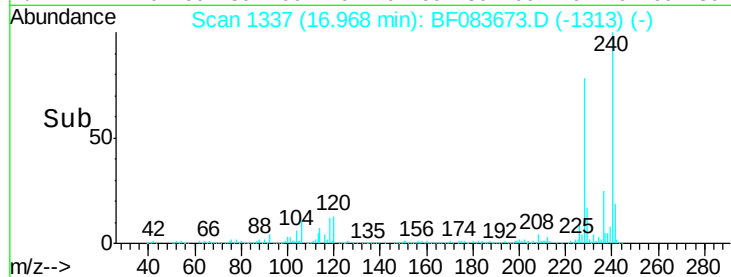
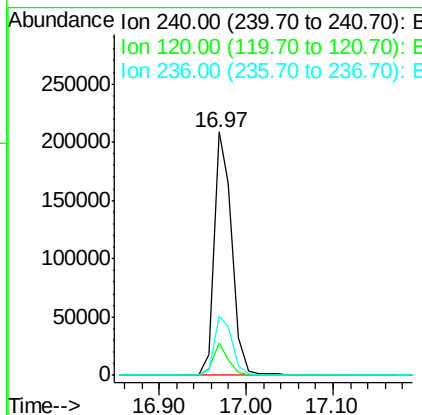
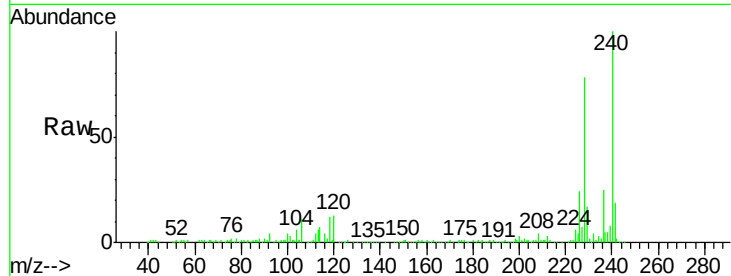
ClientSampleId :

SB-P3WC-03(0-8)DL

Tot Ion:	240	Resp:	297563
Ion Ratio	Lower	Upper	
240	100		
120	13.2	8.1	12.1#
236	24.6	20.8	31.2

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#77

Pyrene

Concen: 29.00 ng

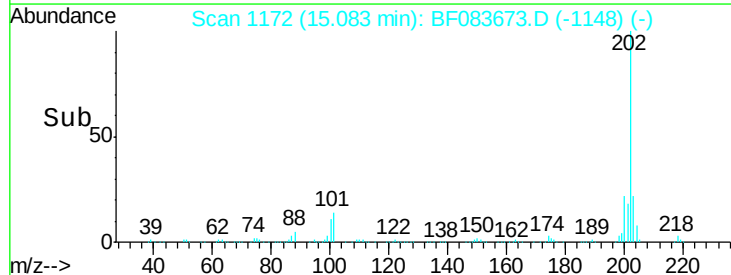
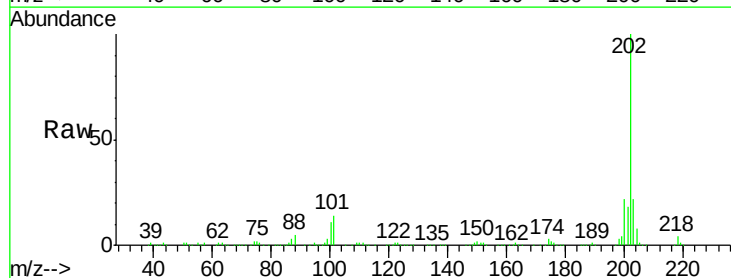
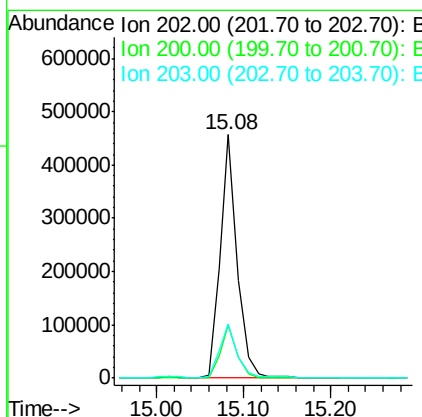
RT: 15.08 min Scan# 1172

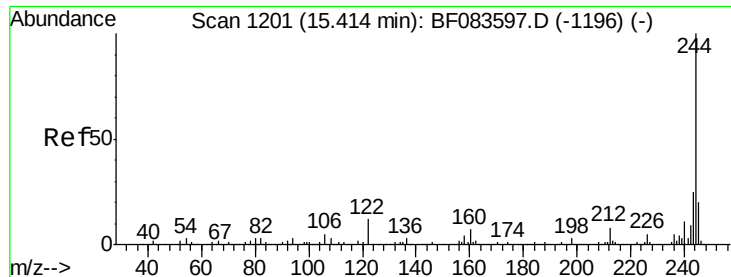
Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Tgt Ion:	202	Resp:	621194
Ion Ratio	Lower	Upper	
202	100		
200	21.5	16.7	25.1
203	22.0	14.3	21.5#





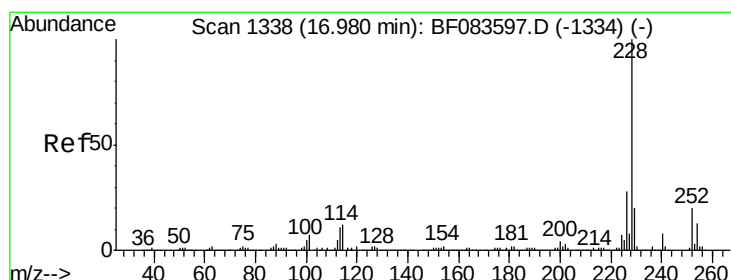
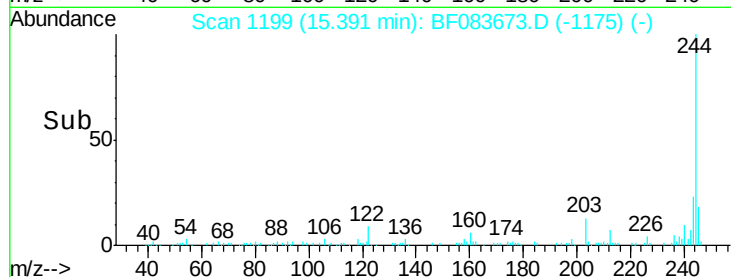
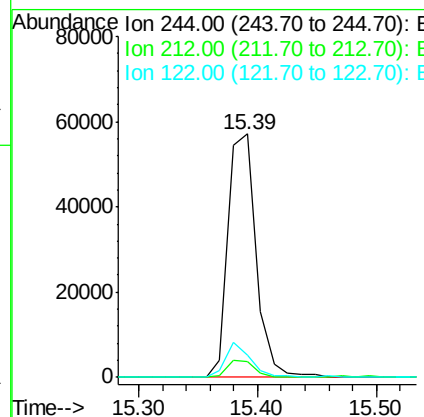
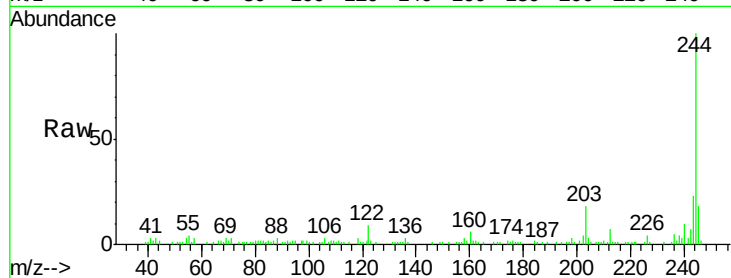
#78
 Terphenyl-d14
 Concen: 7.40 ng
 RT: 15.39 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.1	9.1
122	9.3	11.0	16.6

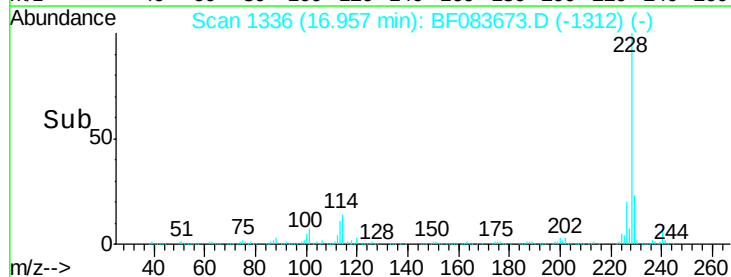
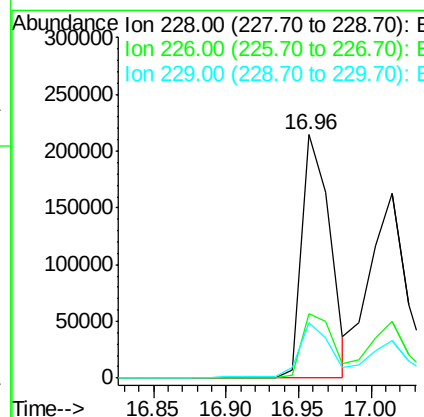
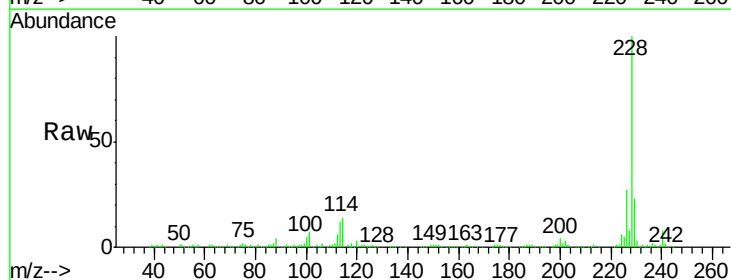
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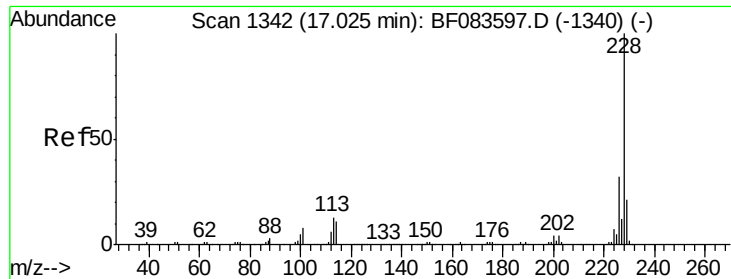
MMdadoda
 12/10/2015 5:50:49 PM



#80
 Benzo(a)anthracene
 Concen: 16.74 ng
 RT: 16.96 min Scan# 1336
 Delta R.T. -0.02 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.6	22.3	33.5
229	22.7	15.7	23.5





#82

Chrysene

Concen: 16.45 ng

RT: 17.01 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

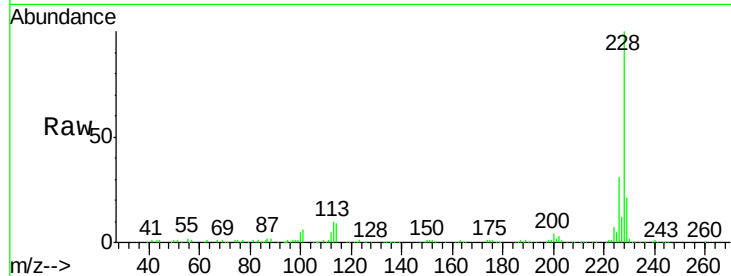
ClientSampleId :

SB-P3WC-03(0-8)DL

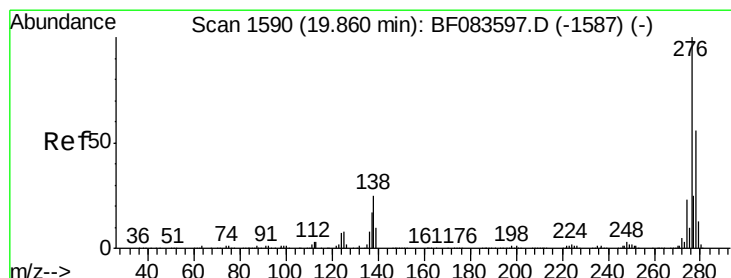
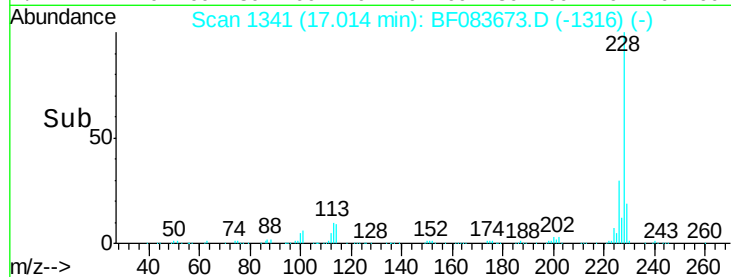
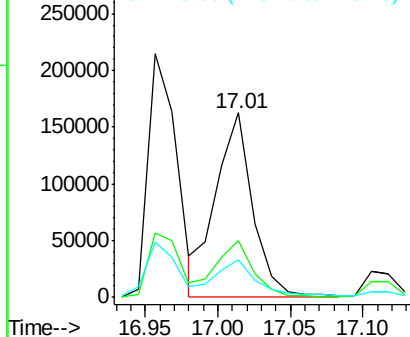
Tot Ion:	228	Resp:	287231
Ion Ratio		Lower	Upper
228	100		
226	30.9	24.7	37.1
229	20.7	16.3	24.5

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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: 9.49 ng

RT: 19.87 min Scan# 1591

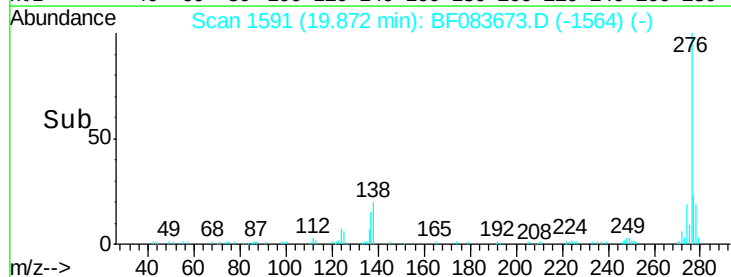
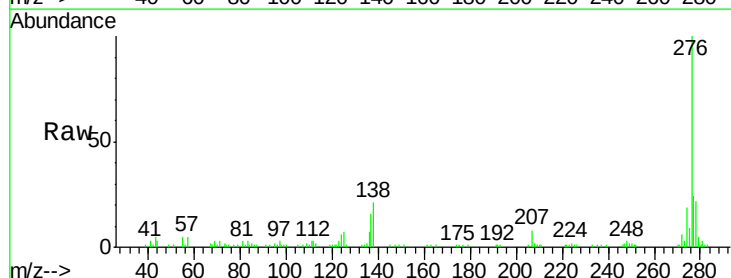
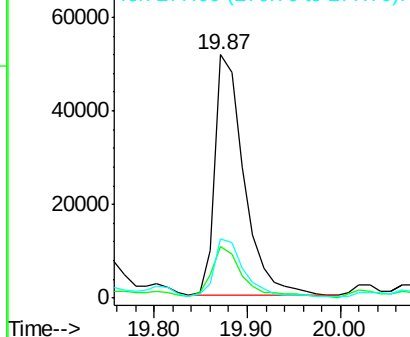
Delta R.T. 0.01 min

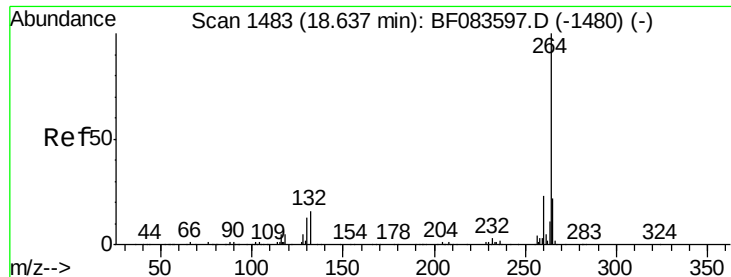
Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Tgt Ion:	276	Resp:	111829
Ion Ratio		Lower	Upper
276	100		
138	24.2	0.0	0.0#
277	23.3	0.0	0.0#

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





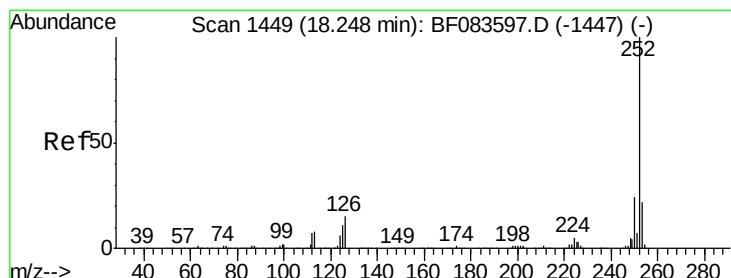
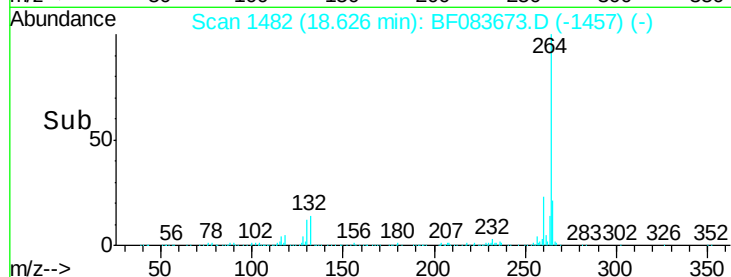
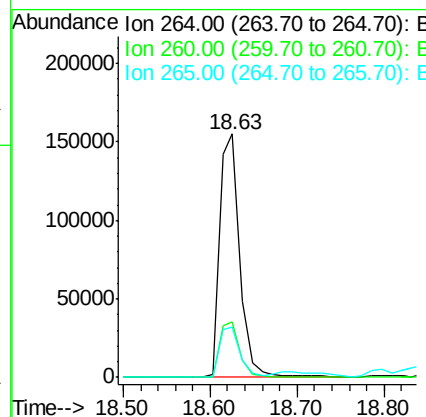
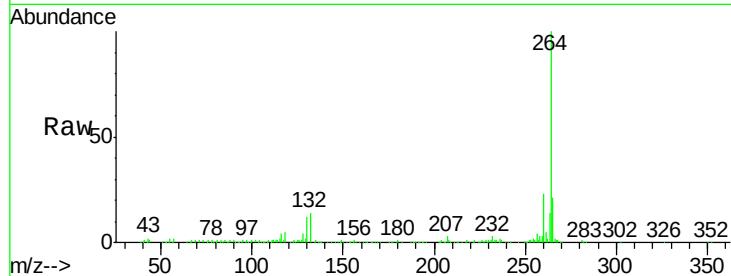
#86
Pervlene-d12
Concen: 20.00 ng
RT: 18.63 min Scan# 1482
Delta R.T. -0.01 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.4	29.0
265	20.6	17.8	26.6

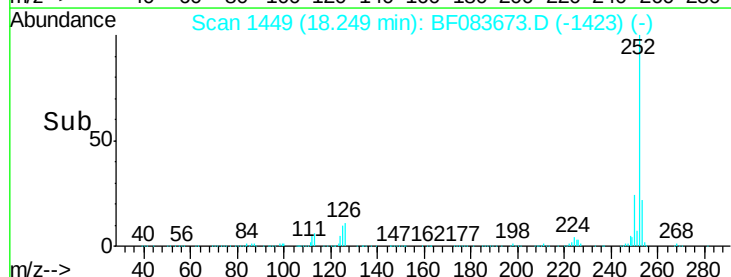
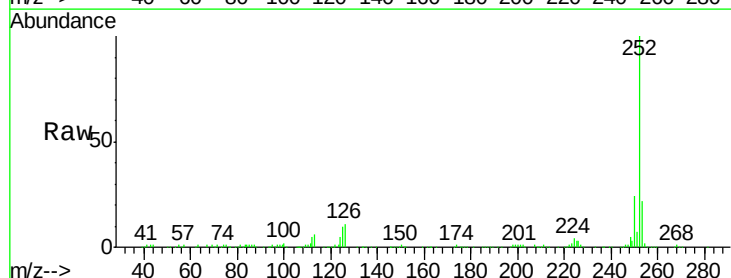
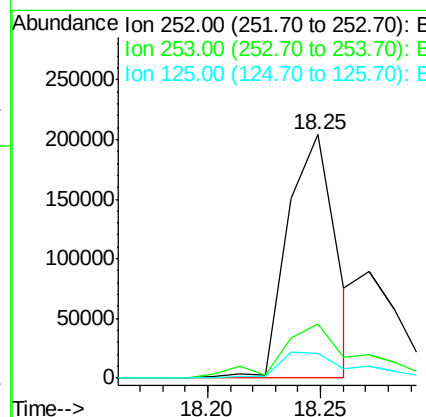
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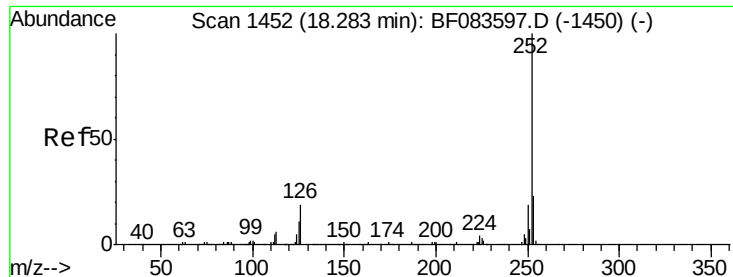
MMdadoda
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#87
Benzo(b)fluoranthene
Concen: 20.80 ng m
RT: 18.25 min Scan# 1449
Delta R.T. 0.00 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.2	27.4
125	10.1	8.2	12.4





#88

Benzo(k)fluoranthene

Concen: 7.31 ng

RT: 18.27 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

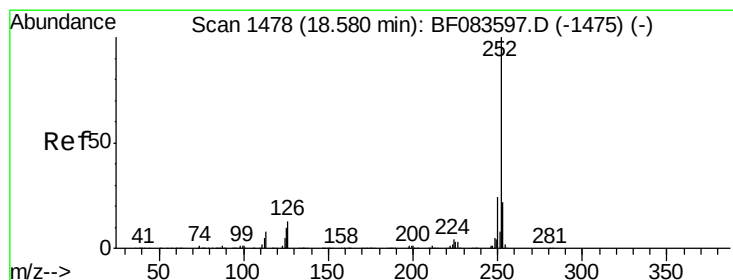
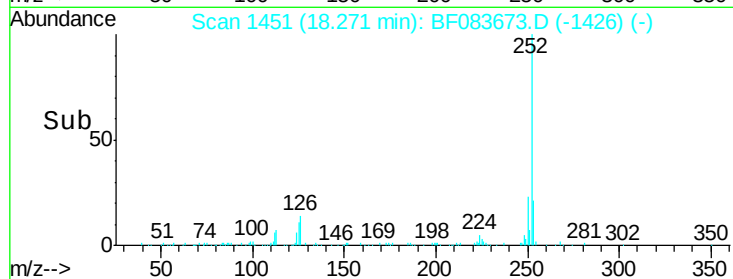
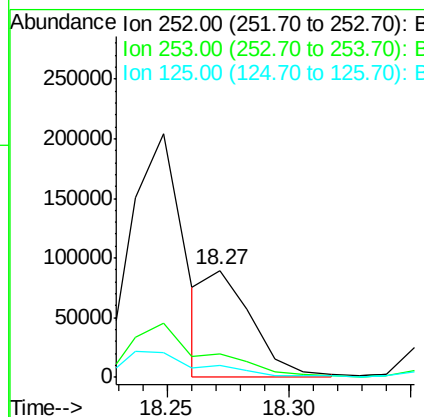
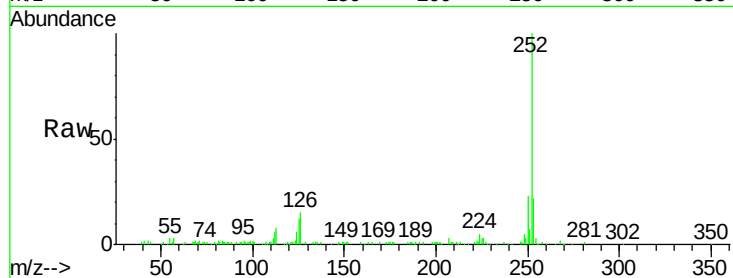
ClientSampleId :

SB-P3WC-03(0-8)DL

Tot Ion:	252	Resp:	116063
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.6	27.8
125	11.7	11.5	17.3

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#89

Benzo(a)pyrene

Concen: 14.64 ng

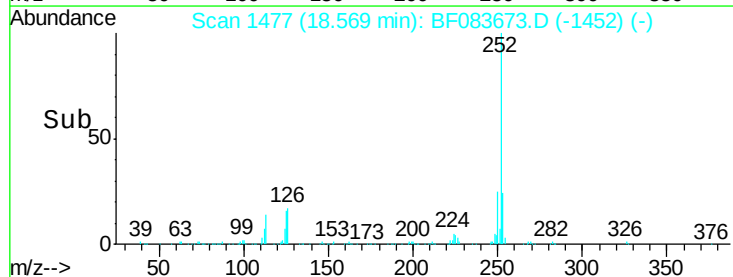
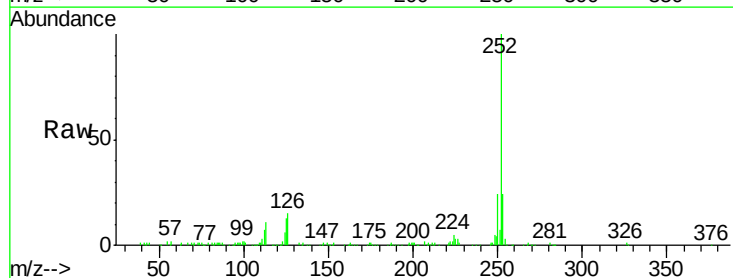
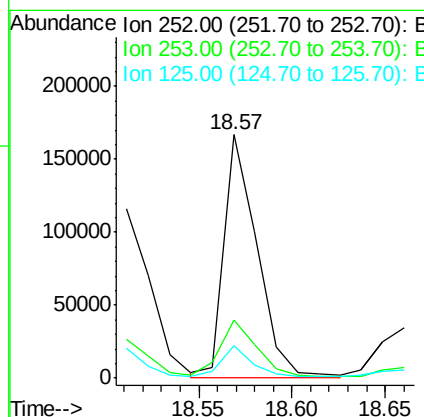
RT: 18.57 min Scan# 1477

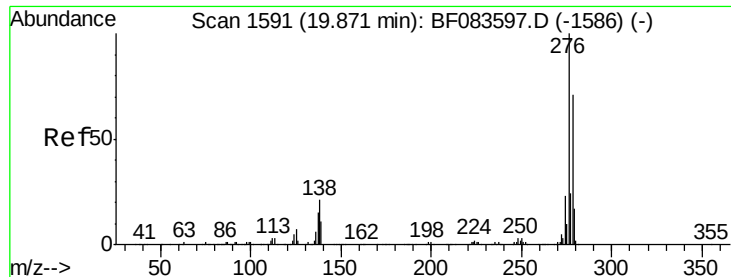
Delta R.T. -0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Tgt Ion:	252	Resp:	205923
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.5	26.3
125	13.4	11.0	16.6





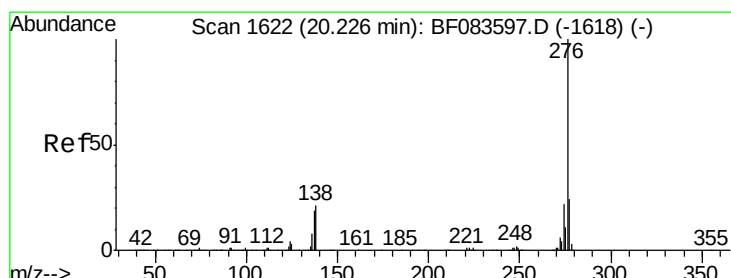
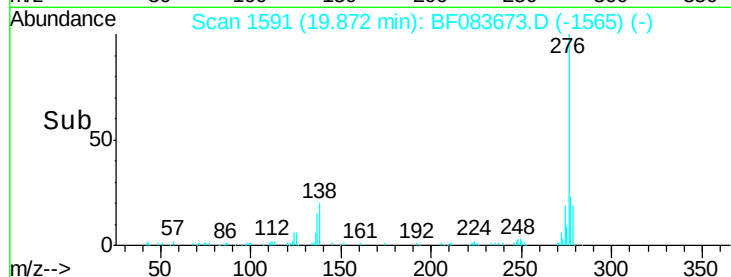
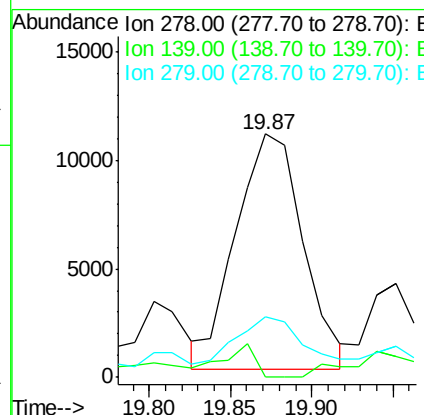
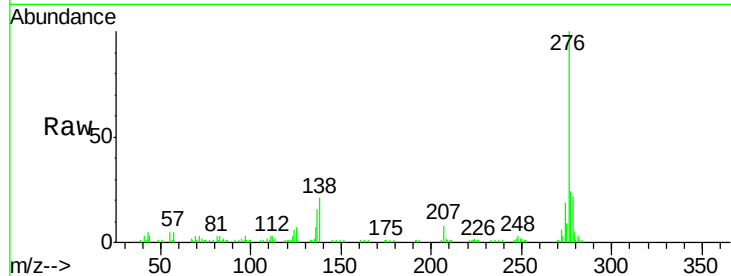
#90
Dibenzo(a,h)anthracene
Concen: 2.90 ng/mL
RT: 19.87 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.8	19.2#
279	25.1	18.6	28.0

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#91
Benzo(g,h,i)perylene
Concen: 10.59 ng/mL
RT: 20.24 min Scan# 1623
Delta R.T. 0.01 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.2	28.8
138	19.6	19.5	29.3

