

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
 Data File : BF083582.D
 Acq On : 8 Dec 2015 5:13
 Operator : UM/IZ
 Sample : G4584-01DL2 25X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL2

Manual Integrations
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 12/8/2015 6:16:05 PM

Quant Time: Dec 08 06:50:35 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.72	152	148780	20.00	ng	-0.05
21) Naphthalene-d8	7.62	136	530207	20.00	ng	-0.06
38) Acenaphthene-d10	10.41	164	232337	20.00	ng	-0.06
63) Phenanthrene-d10	12.81	188	366423	20.00	ng	-0.05
75) Chrysene-d12	17.01	240	348047	20.00	ng	-0.03
86) Perylene-d12	18.65	264	267494	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.03	112	45122	4.60	ng	0.00
7) Phenol-d6	5.32	99	62182	4.60	ng	0.00
23) Nitrobenzene-d5	6.57	82	40958	3.61	ng	-0.03
41) 2,4,6-Tribromophenol	11.71	330	8296	3.87	ng	-0.05
44) 2-Fluorobiphenyl	9.37	172	69513	4.06	ng	-0.06
78) Terphenyl-d14	15.44	244	55212	3.53	ng	-0.05
Target Compounds						Qvalue
31) Naphthalene	7.65	128	284070	10.07	ng	99
37) 2-Methylnaphthalene	8.76	142	72063	4.13	ng	95
48) Acenaphthylene	10.18	152	217831	8.55	ng	98
51) Acenaphthene	10.46	154	35355	2.41	ng	94
57) Fluorene	11.30	166	85338m	4.83	ng	
70) Phenanthrene	12.84	178	662668	31.07	ng	99
71) Anthracene	12.93	178	172074	7.91	ng	98
74) Fluoranthene	14.77	202	471504	22.31	ng	99
77) Pyrene	15.13	202	674282	25.90	ng	98
80) Benzo(a)anthracene	17.00	228	228408m	11.22	ng	
82) Chrysene	17.05	228	198676	9.79	ng	97
85) Indeno(1,2,3-cd)pyrene	19.92	276	94648	5.44	ng	# 100
87) Benzo(b)fluoranthene	18.28	252	196366m	13.07	ng	
88) Benzo(k)fluoranthene	18.31	252	55845m	3.63	ng	
89) Benzo(a)pyrene	18.60	252	209003m	14.30	ng	
91) Benzo(g,h,i)perylene	20.27	276	118414	8.36	ng	# 94

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

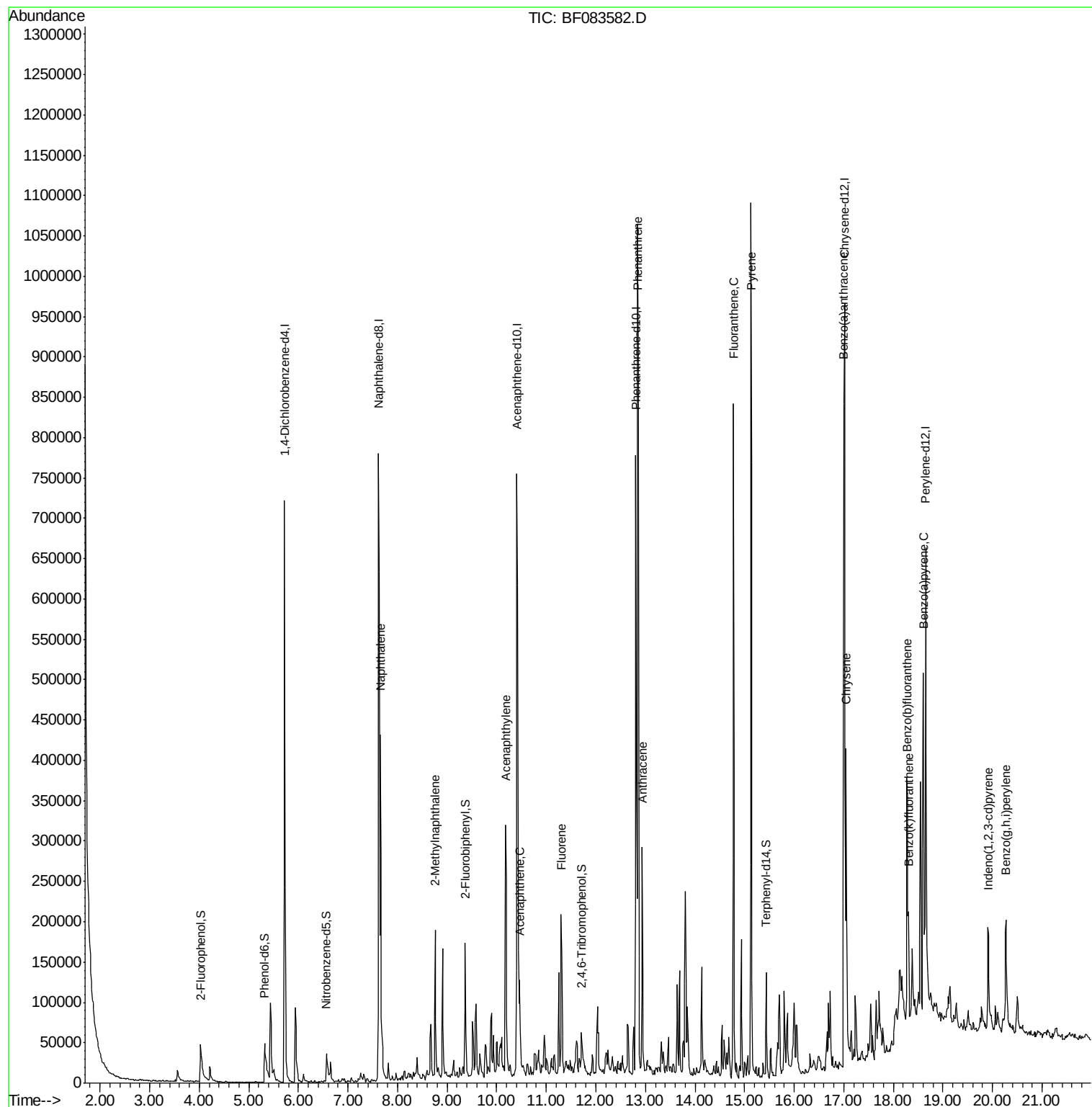
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
Data File : BF083582.D
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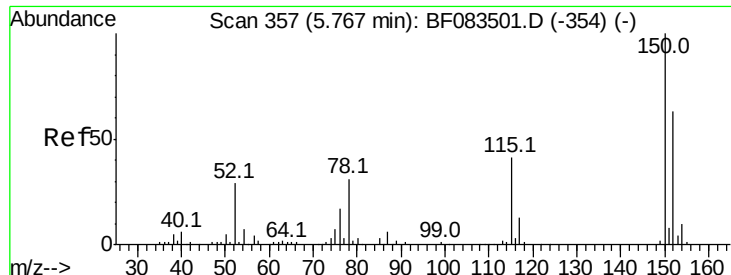
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL2

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.72 min Scan# 353

Delta R.T. -0.05 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Instrument :

BNA_F

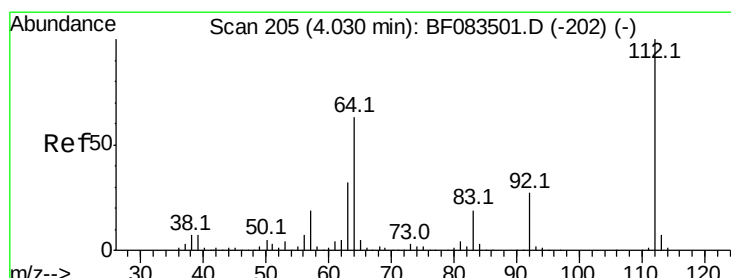
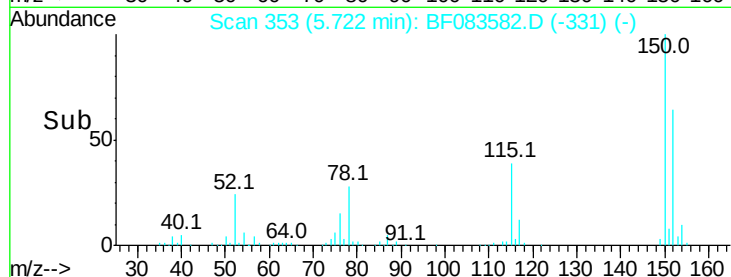
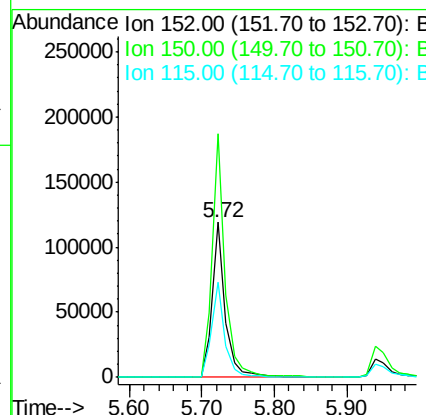
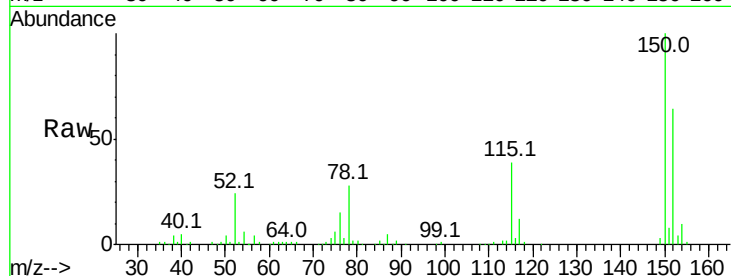
ClientSampleId :

SB-P3WC-10(0-6)DL2

Tot Ion:	152	Resp:	148780
Ion Ratio	Lower	Upper	
152	100		
150	157.3	126.5	189.7
115	61.8	52.3	78.5

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#5

2-Fluorophenol

Concen: 4.60 ng

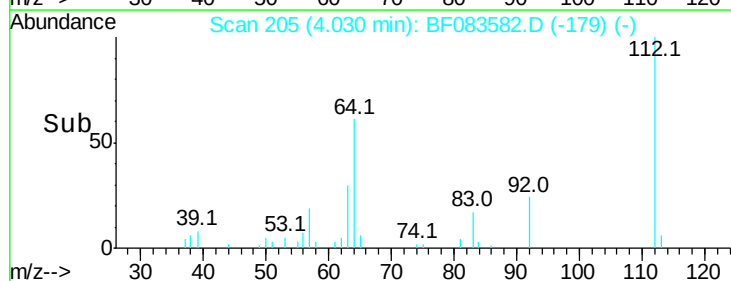
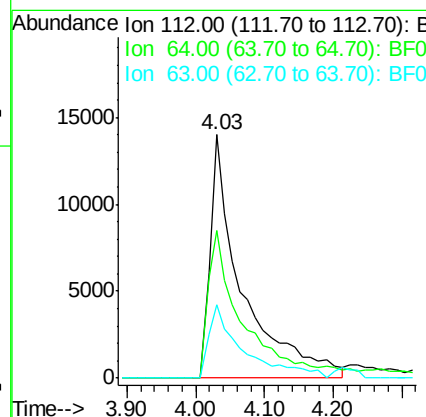
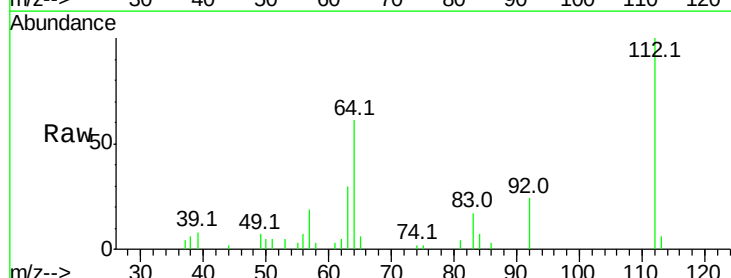
RT: 4.03 min Scan# 205

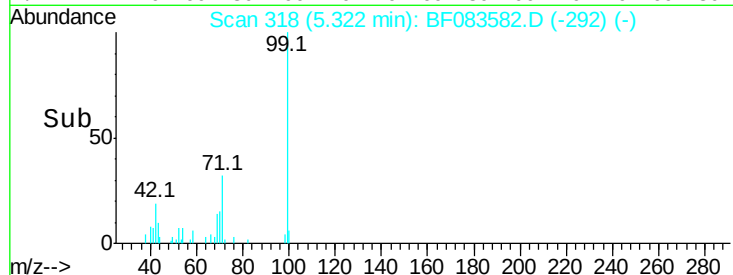
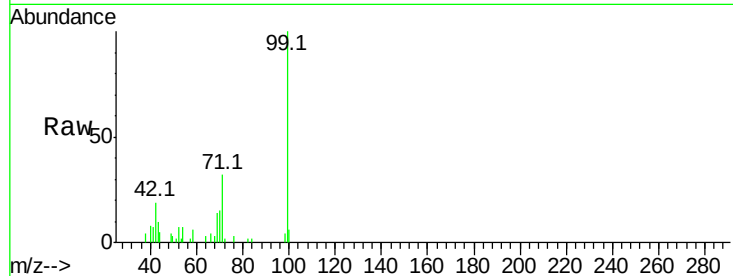
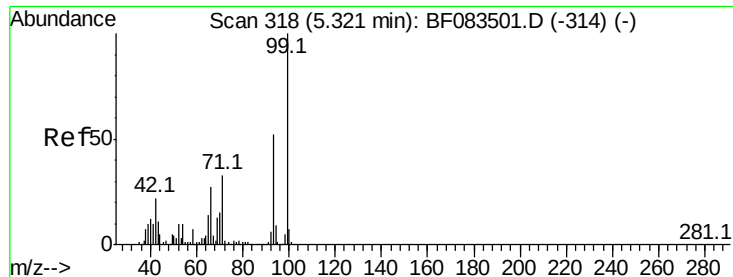
Delta R.T. 0.00 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Tgt Ion:	112	Resp:	45122
Ion Ratio	Lower	Upper	
112	100		
64	60.8	50.5	75.7
63	29.9	25.8	38.6





#7

Phenol-d6

Concen: 4.60 ng

RT: 5.32 min Scan# 318

Delta R.T. 0.00 min

Lab File: BF083582.D

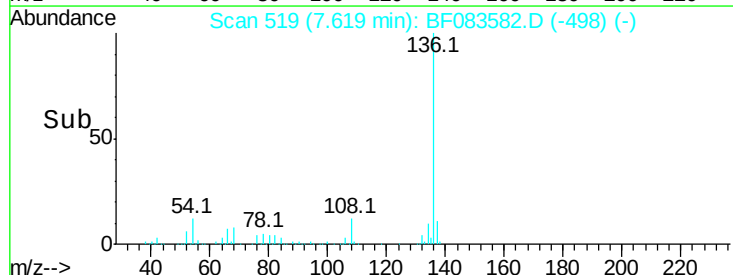
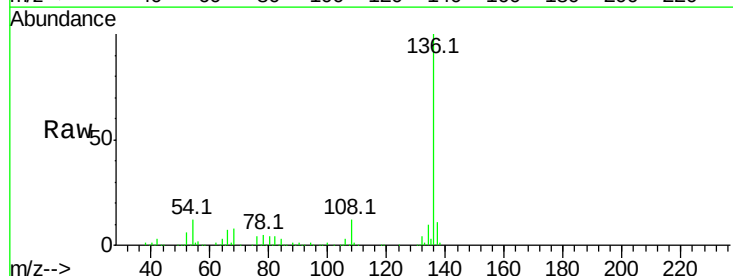
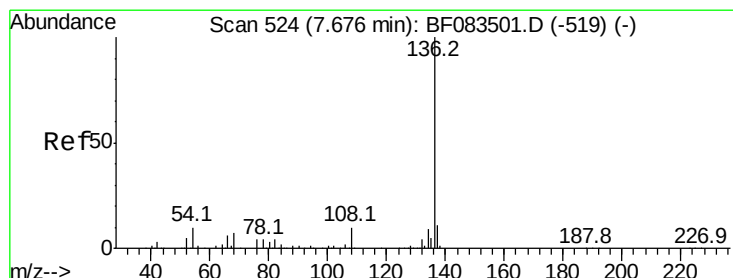
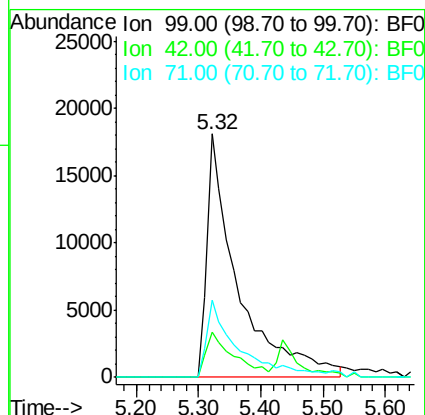
Acq: 8 Dec 2015 5:13

Tot Ion:	99	Resp:	62182
Ion Ratio	Lower	Upper	
99	100		
42	18.6	17.3	25.9
71	31.6	26.6	40.0

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL2

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#21

Naphthalene-d8

Concen: 20.00 ng

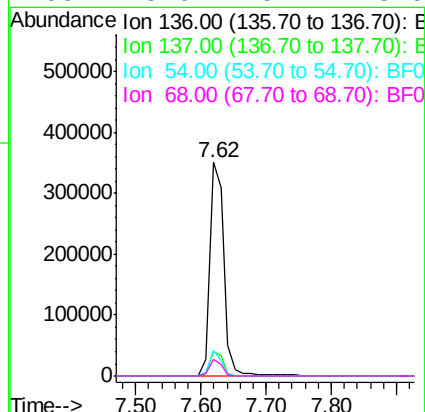
RT: 7.62 min Scan# 519

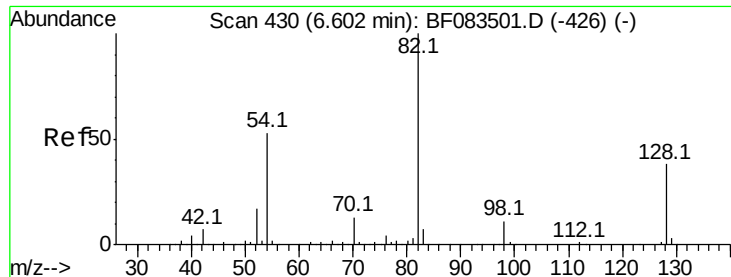
Delta R.T. -0.06 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Tgt Ion:	136	Resp:	530207
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.7	13.1
54	11.7	7.8	11.6#
68	8.0	5.7	8.5





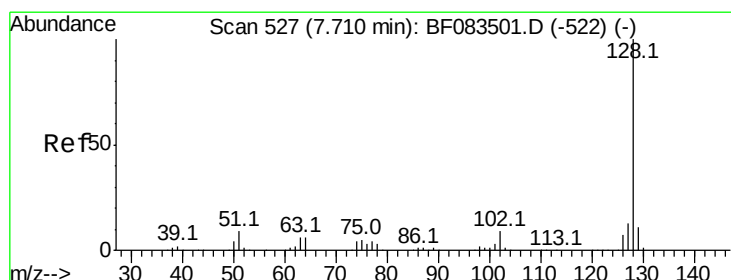
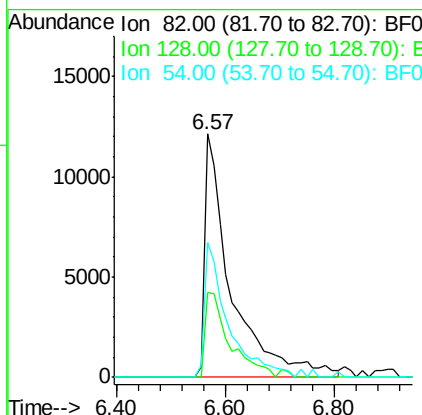
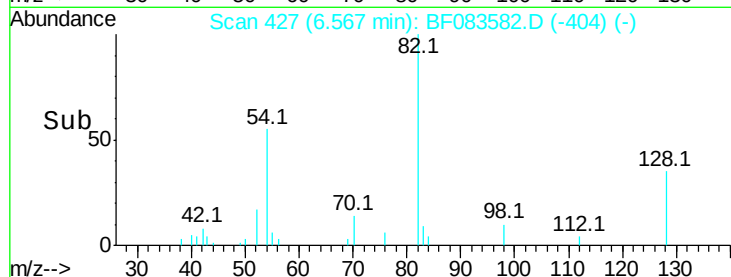
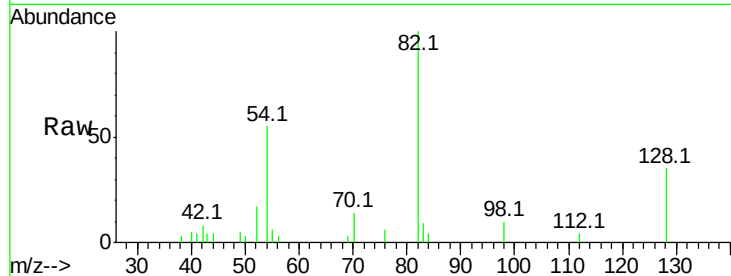
#23
Nitrobenzene-d5
Concen: 3.61 ng
RT: 6.57 min Scan# 427
Delta R.T. -0.03 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL2

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.0	30.7	46.1
54	55.3	42.5	63.7

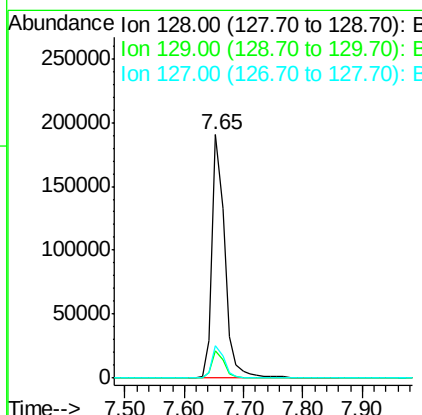
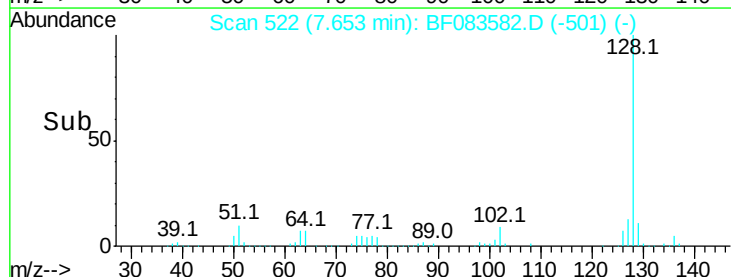
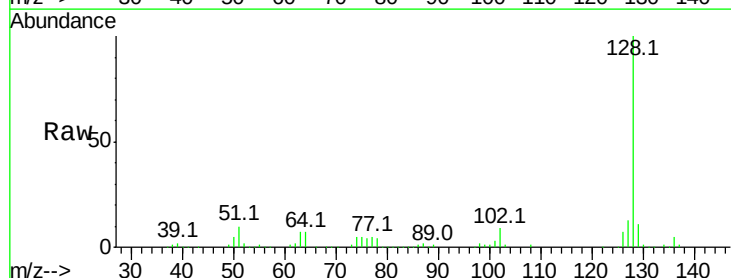
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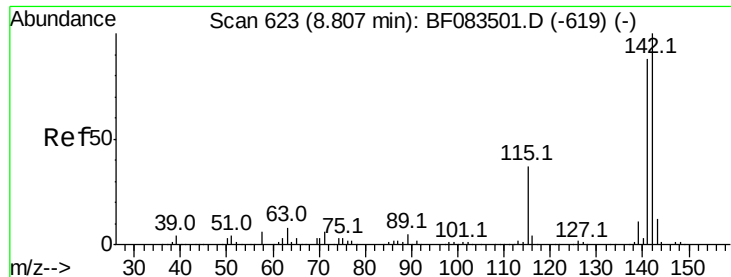
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#31
Naphthalene
Concen: 10.07 ng
RT: 7.65 min Scan# 522
Delta R.T. -0.06 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	13.2	10.6	16.0





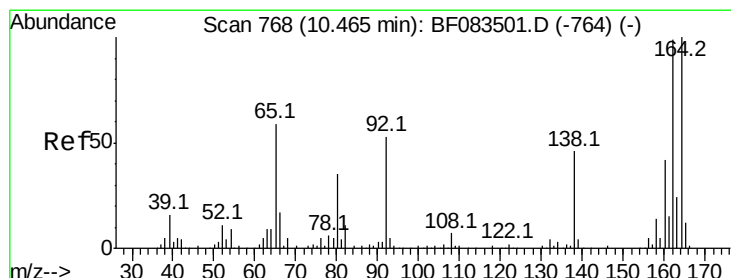
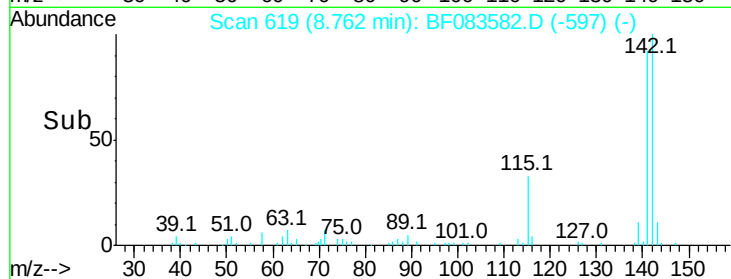
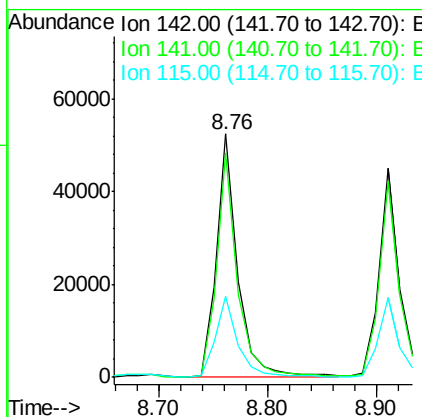
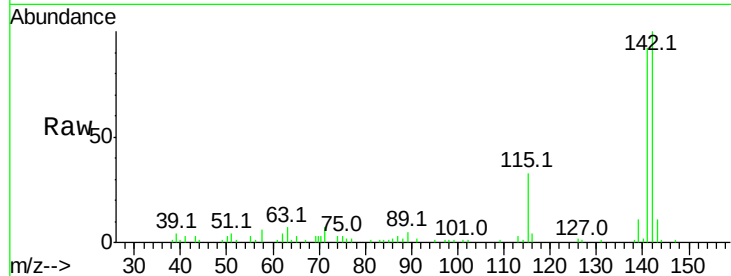
#37
2-Methylnaphthalene
Concen: 4.13 ng
RT: 8.76 min Scan# 619
Delta R.T. -0.05 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL2

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.2	70.3	105.5
115	33.3	29.2	43.8

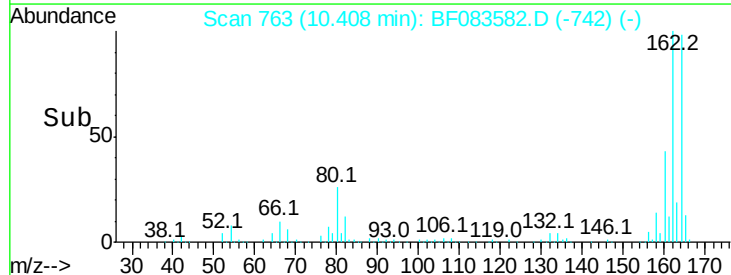
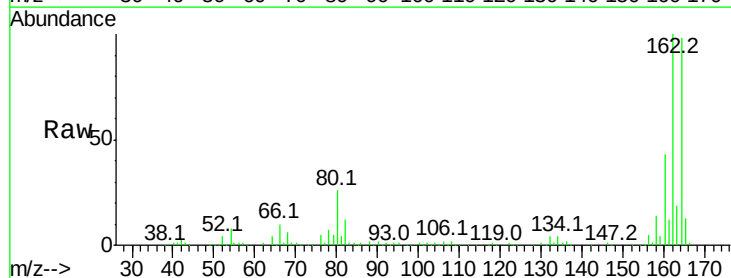
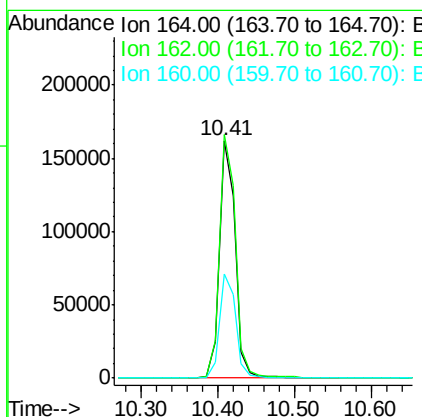
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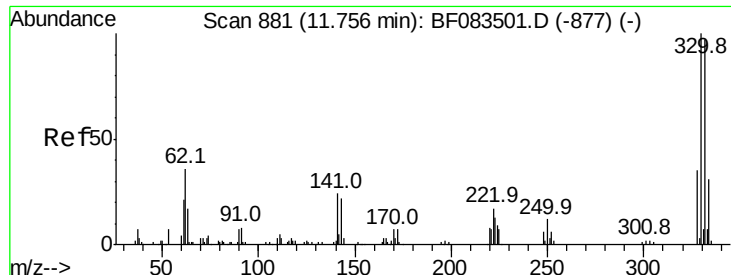
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.41 min Scan# 763
Delta R.T. -0.06 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.4	78.8	118.2
160	43.5	33.4	50.2





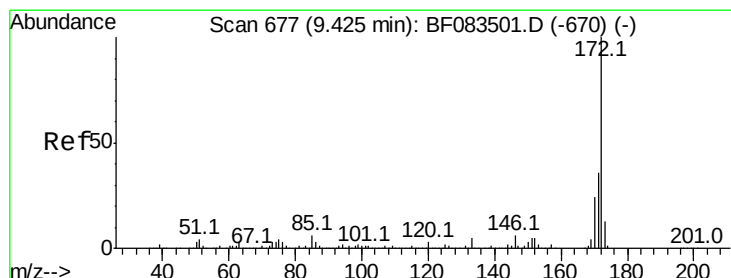
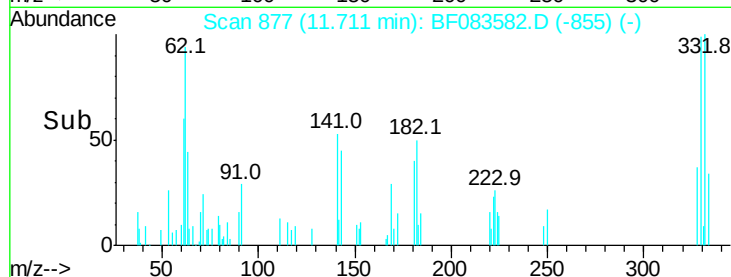
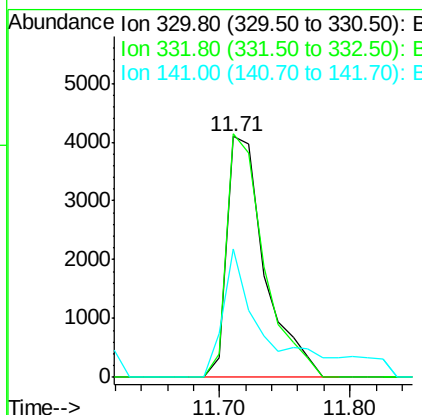
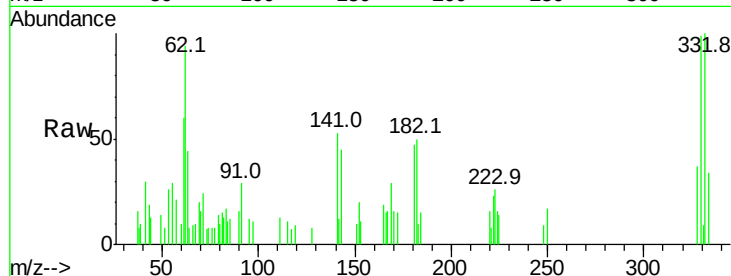
#41
 2,4,6-Tribromophenol
 Concen: 3.87 ng
 RT: 11.71 min Scan# 877
 Delta R.T. -0.05 min
 Lab File: BF083582.D
 Acq: 8 Dec 2015 5:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL2

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	99.6	0.0	0.0	0.0
141	56.9	0.0	0.0	0.0

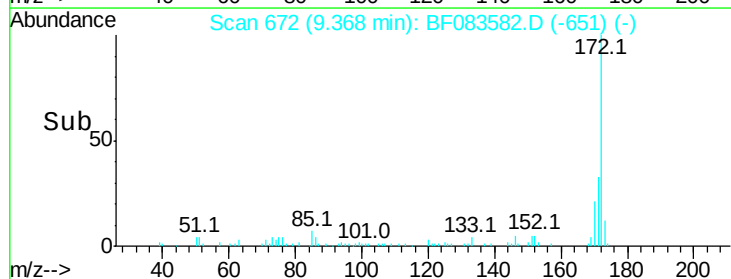
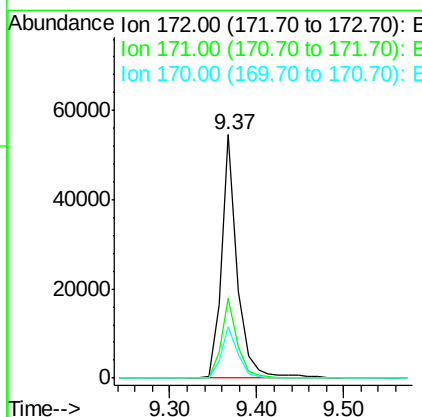
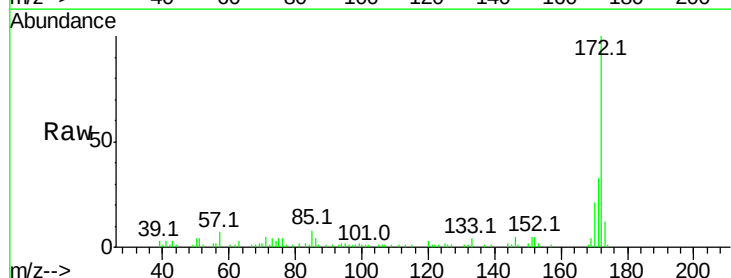
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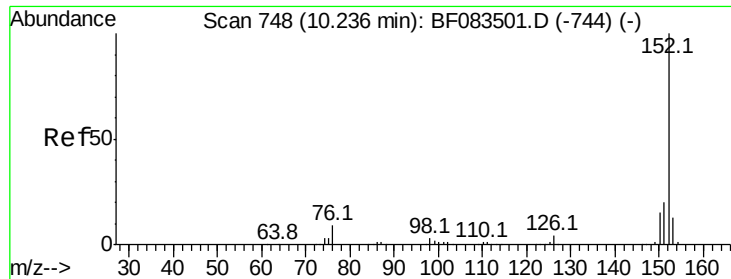
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#44
 2-Fluorobiphenyl
 Concen: 4.06 ng
 RT: 9.37 min Scan# 672
 Delta R.T. -0.06 min
 Lab File: BF083582.D
 Acq: 8 Dec 2015 5:13

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	32.7	28.6	42.8	
170	21.2	19.4	29.0	





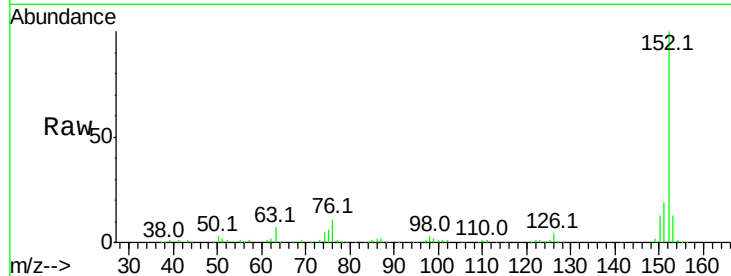
#48
Acenaphthylene
Concen: 8.55 ng
RT: 10.18 min Scan# 743
Delta R.T. -0.06 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL2

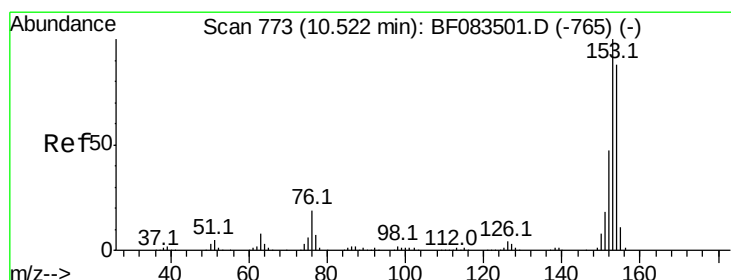
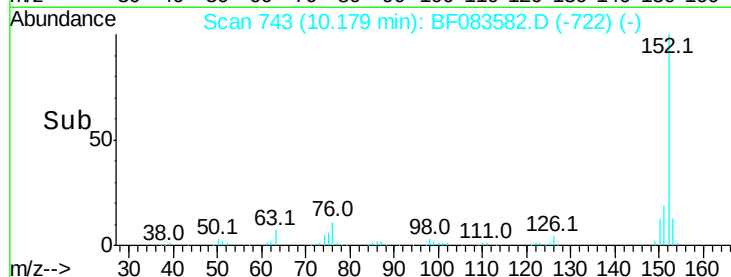
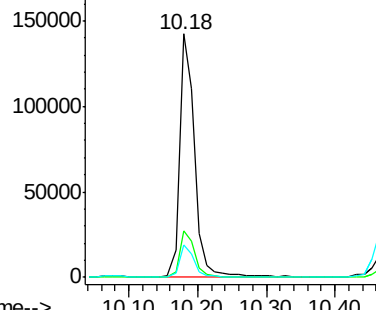
Tot Ion	Ratio	Resp	Lower	Upper
152	100	217831		
151	18.9	16.3	24.5	
153	13.4	10.8	16.2	

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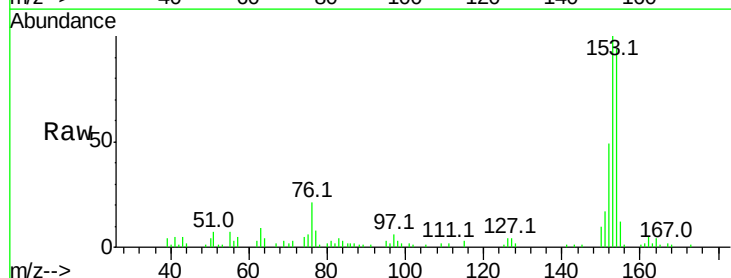


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

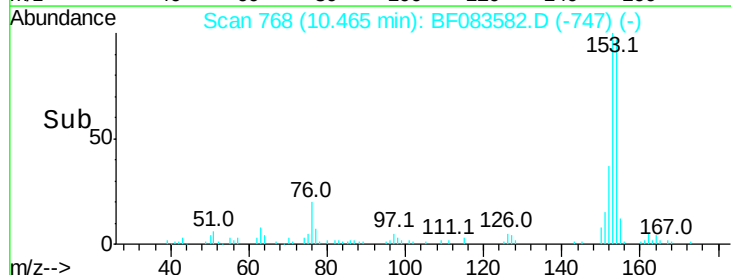
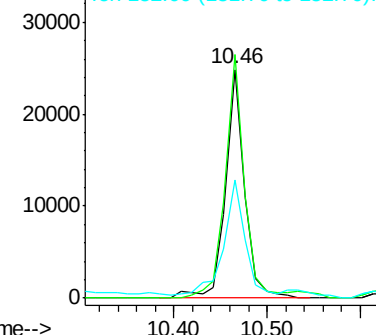


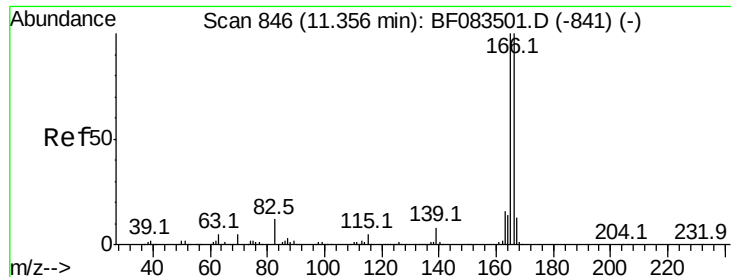
#51
Acenaphthene
Concen: 2.41 ng
RT: 10.46 min Scan# 768
Delta R.T. -0.06 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	35355		
153	106.6	91.4	137.0	
152	51.9	43.4	65.2	



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: 4.83 ng/mL

RT: 11.30 min Scan# 841

Delta R.T. -0.06 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Instrument :

BNA_F

ClientSampleId :

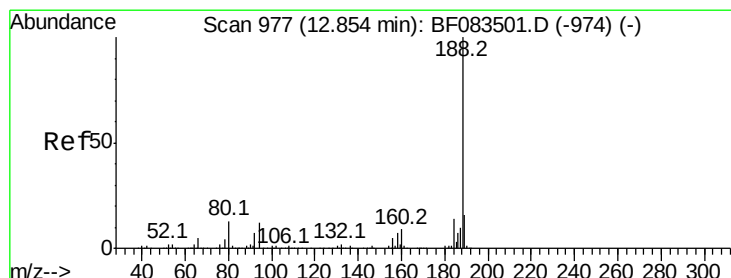
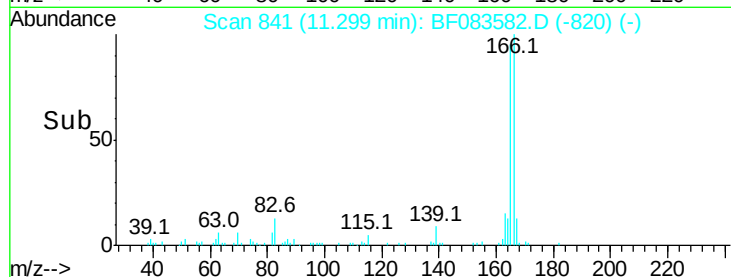
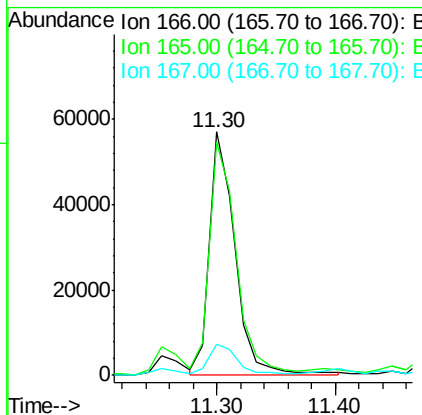
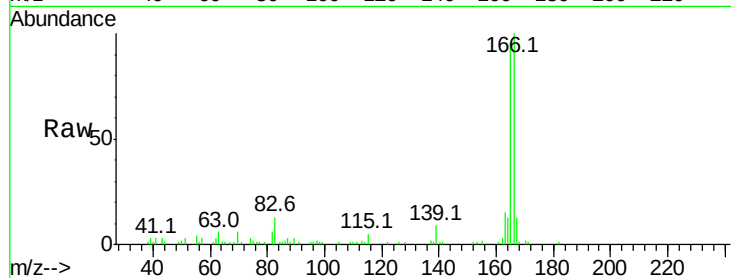
SB-P3WC-10(0-6)DL2

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Tot Ion:	166	Resp:	85338
Ion Ratio	Lower	Upper	
166	100		
165	95.9	80.0	120.0
167	12.8	10.6	16.0



#63

Phenanthrene-d10

Concen: 20.00 ng/mL

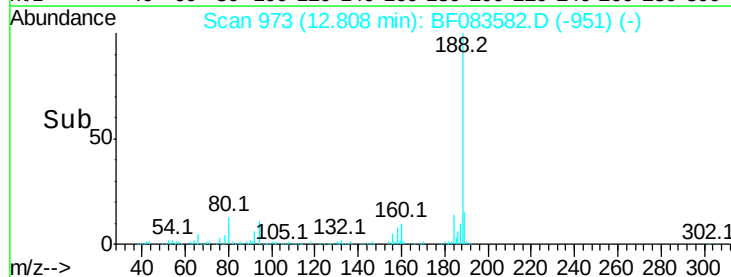
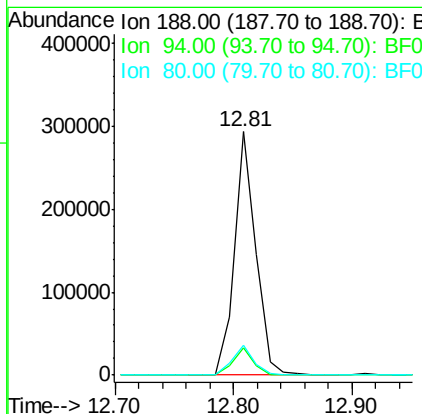
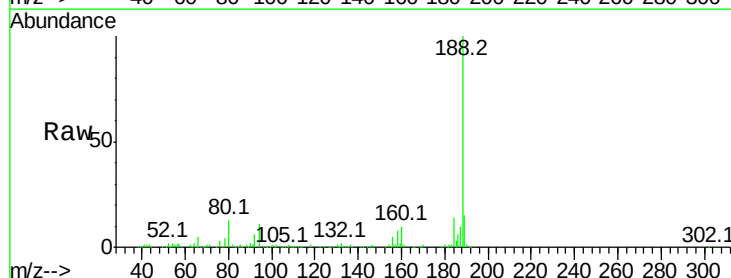
RT: 12.81 min Scan# 973

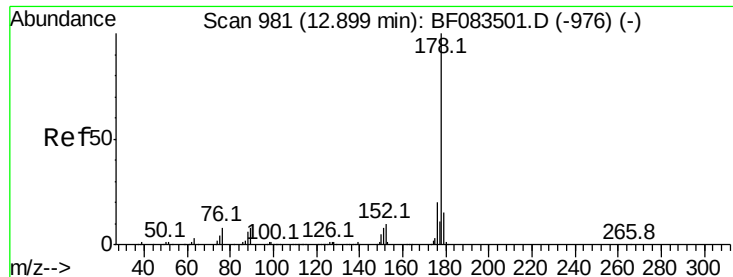
Delta R.T. -0.05 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Tgt Ion:	188	Resp:	366423
Ion Ratio	Lower	Upper	
188	100		
94	11.3	9.4	14.2
80	12.5	10.6	16.0





#70

Phenanthrene

Concen: 31.07 ng

RT: 12.84 min Scan# 976

Delta R.T. -0.06 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Instrument :

BNA_F

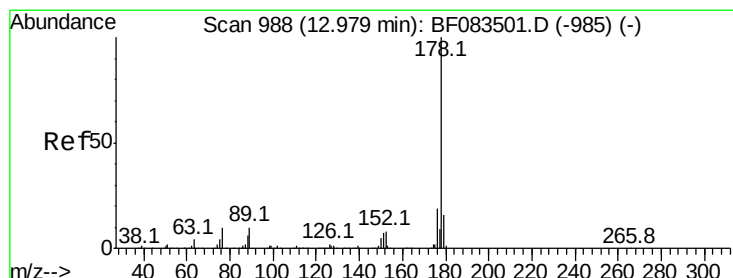
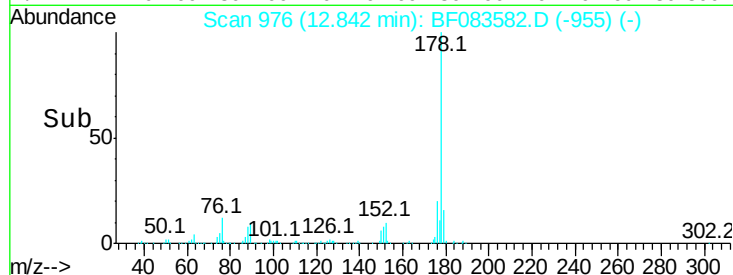
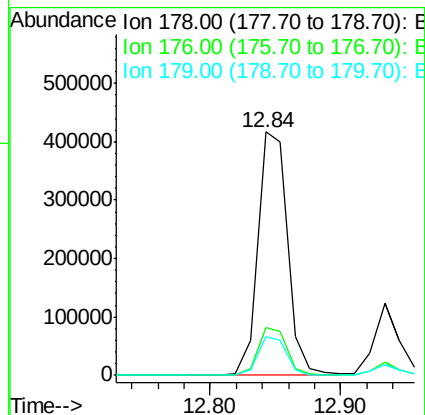
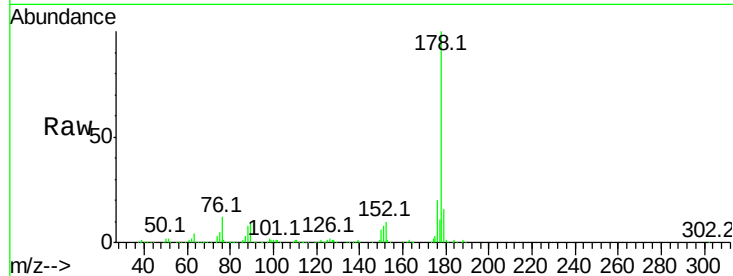
ClientSampleId :

SB-P3WC-10(0-6)DL2

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Tot Ion:178	Resp:	662668
Ion Ratio	Lower	Upper
178	100	
176	19.6	15.7 23.5
179	15.9	12.2 18.4



#71

Anthracene

Concen: 7.91 ng

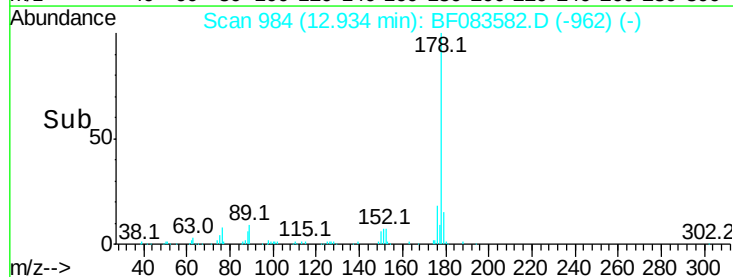
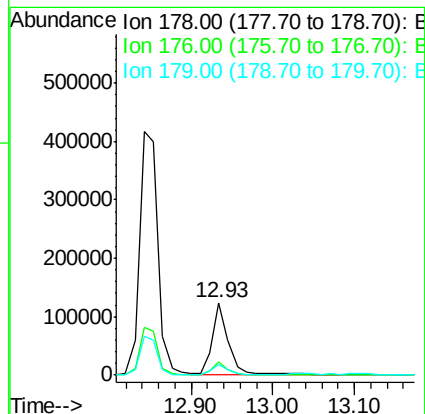
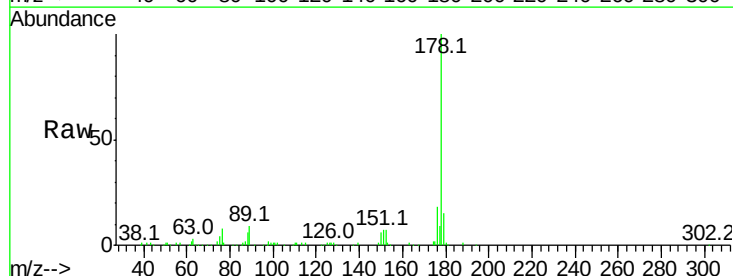
RT: 12.93 min Scan# 984

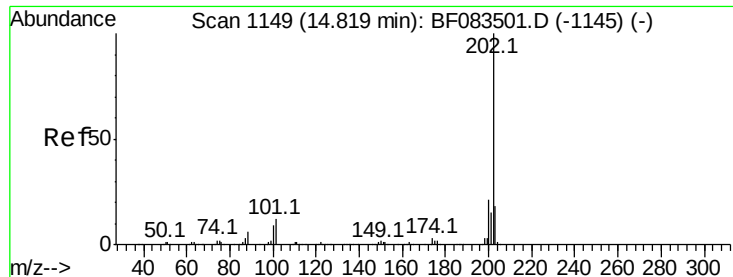
Delta R.T. -0.05 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Tgt Ion:178	Resp:	172074
Ion Ratio	Lower	Upper
178	100	
176	18.2	15.2 22.8
179	15.0	12.6 18.8





#74

Fluoranthene

Concen: 22.31 ng

RT: 14.77 min Scan# 1145

Delta R.T. -0.05 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Instrument :

BNA_F

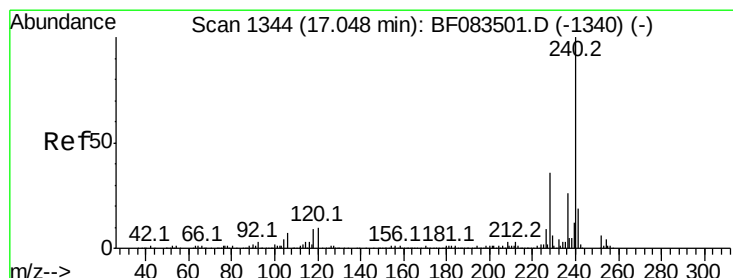
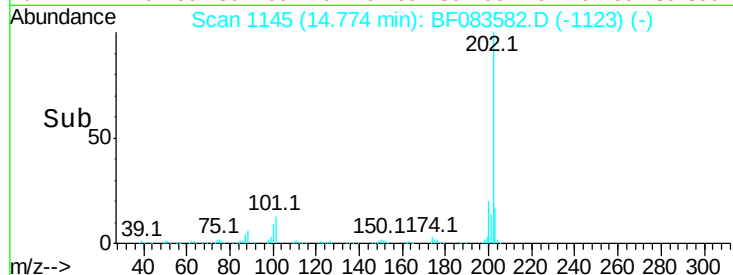
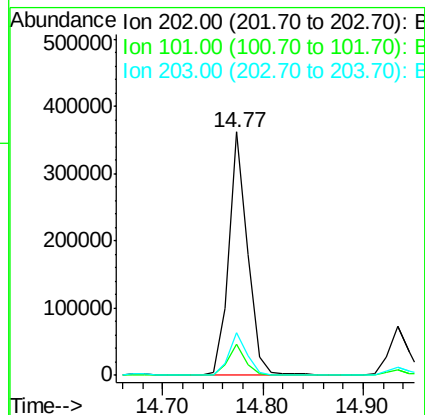
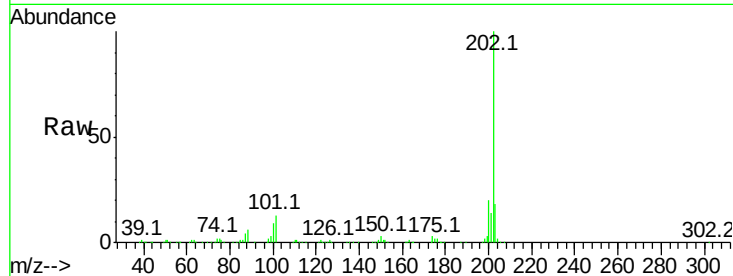
ClientSampleId :

SB-P3WC-10(0-6)DL2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		471504		
101	12.6	0.0	31.5		
203	17.5	0.0	37.6		

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#75

Chrysene-d12

Concen: 20.00 ng

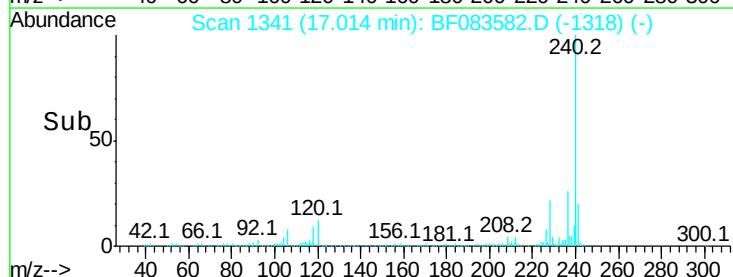
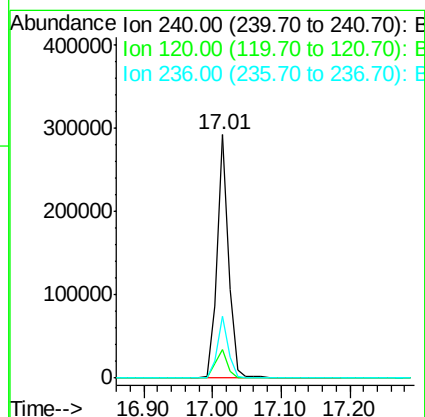
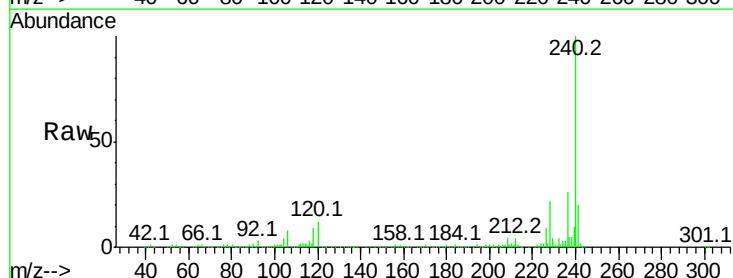
RT: 17.01 min Scan# 1341

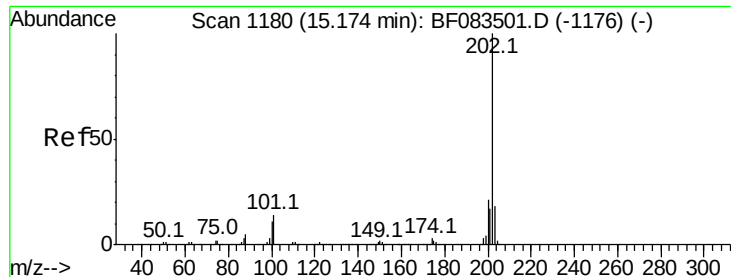
Delta R.T. -0.03 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		348047		
120	11.5	8.1	12.1		
236	25.5	20.8	31.2		





#77

Pvrene

Concen: 25.90 ng

RT: 15.13 min Scan# 1176

Delta R.T. -0.05 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Instrument :

BNA_F

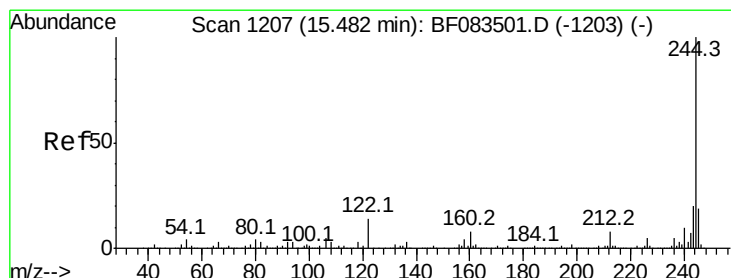
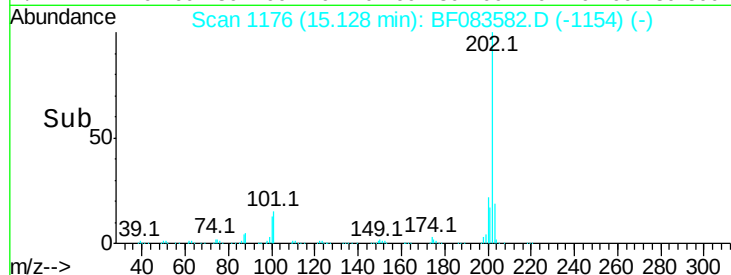
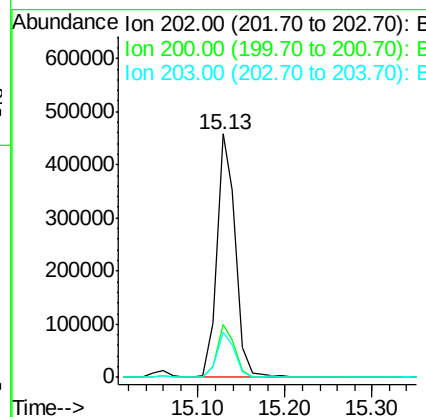
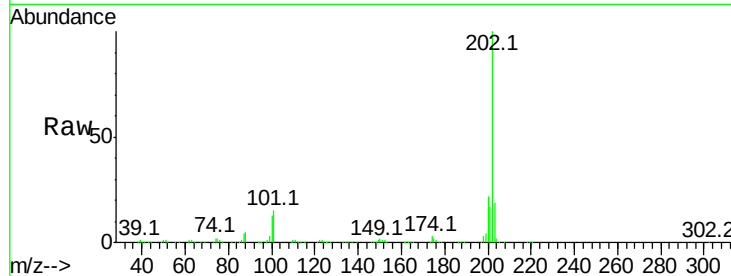
ClientSampleId :

SB-P3WC-10(0-6)DL2

Tot Ion:	202	Resp:	674282
Ion Ratio	Lower	Upper	
202	100		
200	21.6	16.7	25.1
203	18.8	14.3	21.5

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#78

Terphenyl-d14

Concen: 3.53 ng

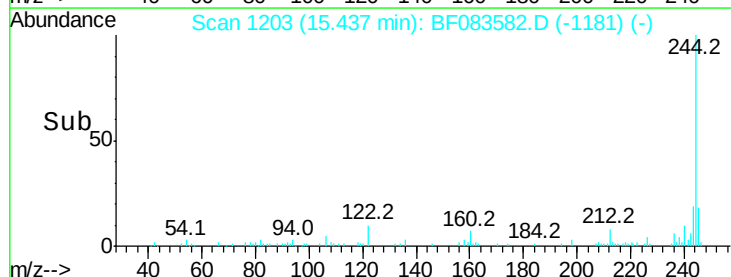
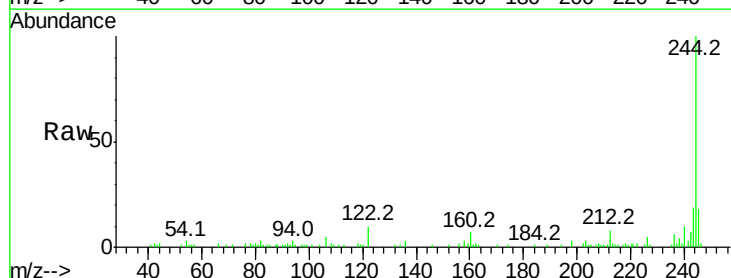
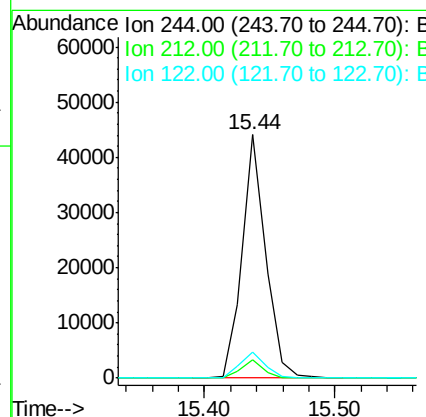
RT: 15.44 min Scan# 1203

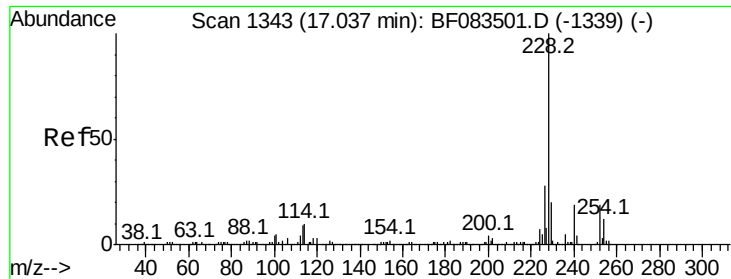
Delta R.T. -0.05 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Tgt Ion:	244	Resp:	55212
Ion Ratio	Lower	Upper	
244	100		
212	7.8	6.1	9.1
122	10.4	11.0	16.6#





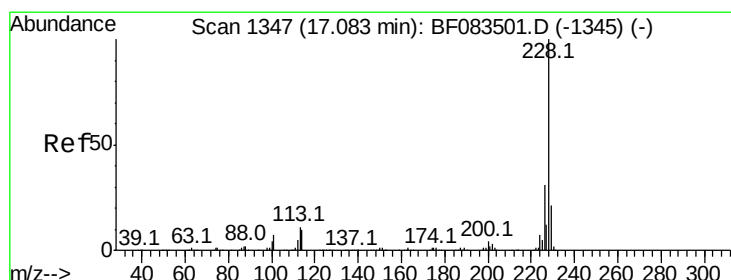
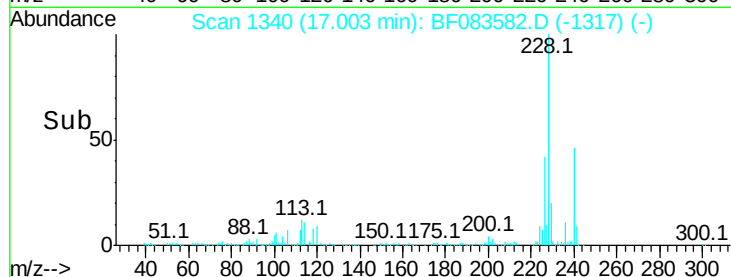
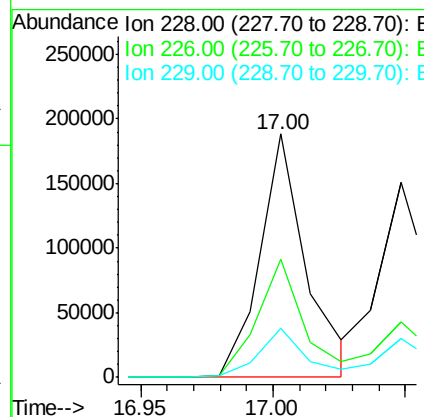
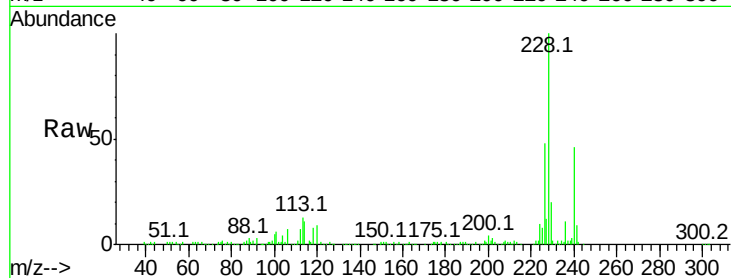
#80
Benzo(a)anthracene
Concen: 11.22 ng m
RT: 17.00 min Scan# 1340
Delta R.T. -0.03 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL2

Tot Ion	Ratio	Resp	Lower	Upper
228	100	228408		
226	48.5	22.3	33.5#	
229	20.3	15.7	23.5	

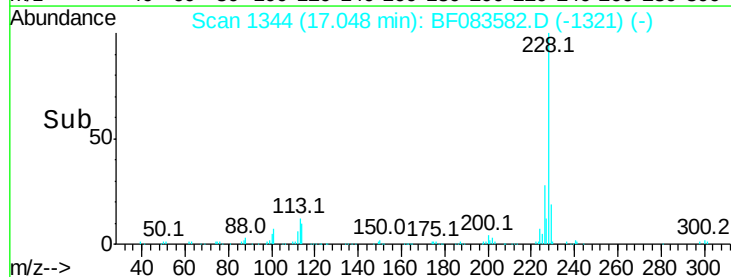
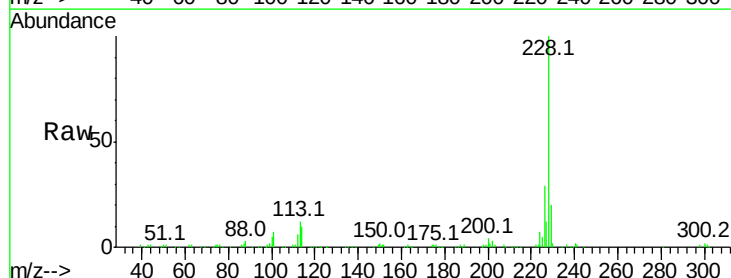
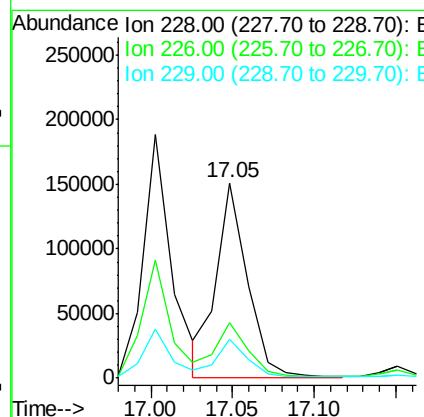
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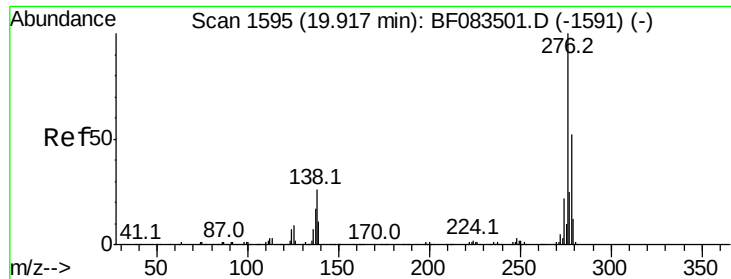
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#82
Chrysene
Concen: 9.79 ng
RT: 17.05 min Scan# 1344
Delta R.T. -0.03 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	198676		
226	28.6	24.7	37.1	
229	19.7	16.3	24.5	





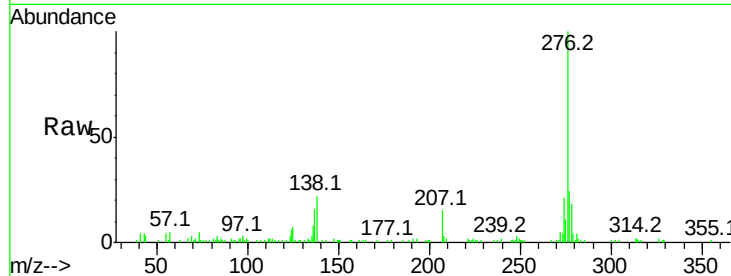
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.44 ng
 RT: 19.92 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: BF083582.D
 Acq: 8 Dec 2015 5:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL2

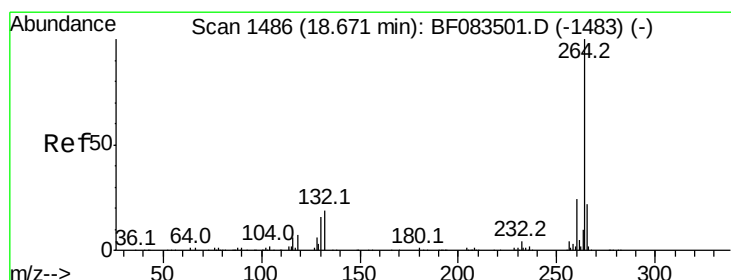
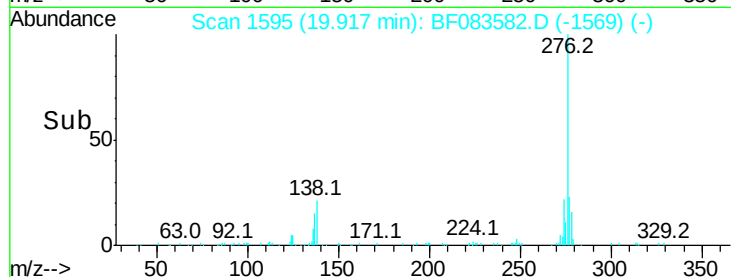
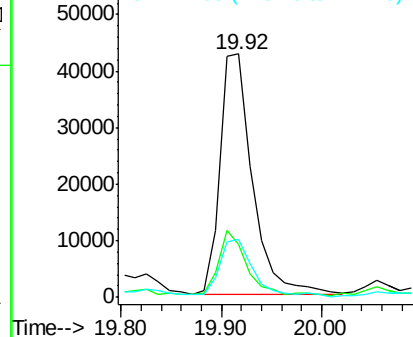
Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	23.7	0.0	0.0	
277	26.1	0.0	0.0	

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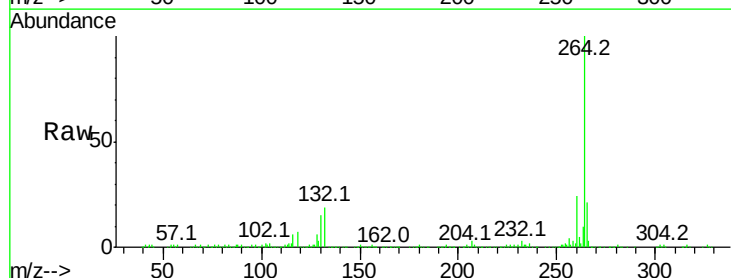


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

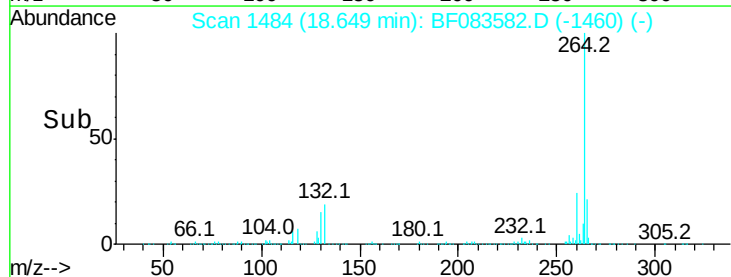
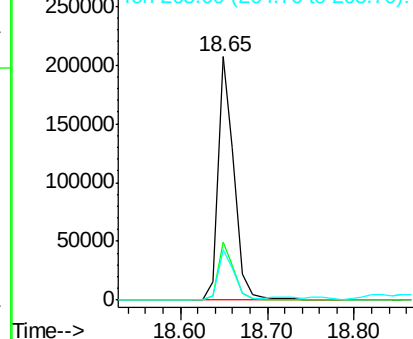


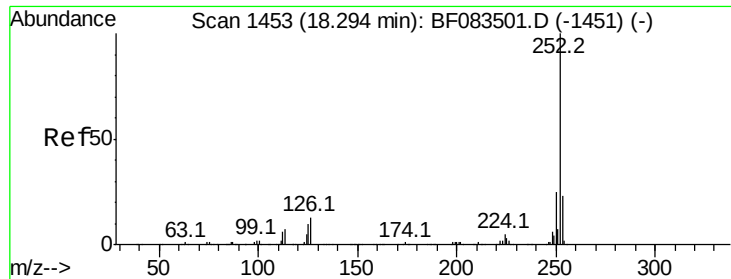
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 18.65 min Scan# 1484
 Delta R.T. -0.02 min
 Lab File: BF083582.D
 Acq: 8 Dec 2015 5:13

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.1	19.4	29.0	
265	20.8	17.8	26.6	



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 13.07 ng m

RT: 18.28 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Instrument :

BNA_F

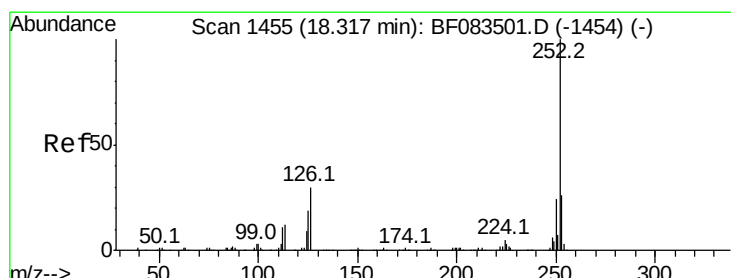
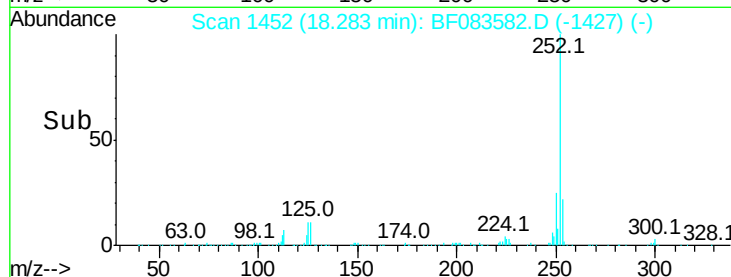
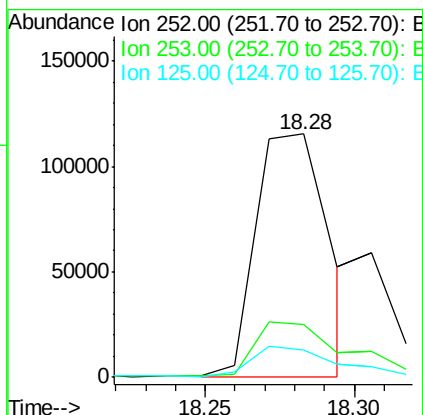
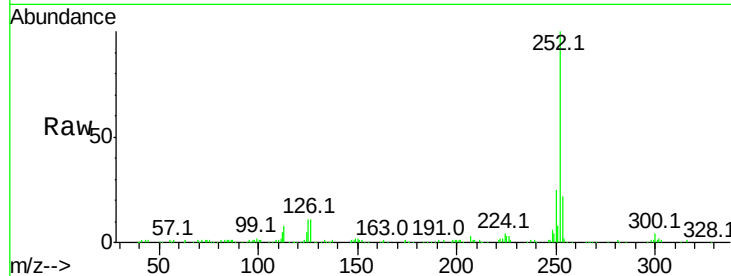
ClientSampleId :

SB-P3WC-10(0-6)DL2

Tot Ion:	252	Resp:	196366
Ion Ratio	Lower	Upper	
252	100		
253	21.8	18.2	27.4
125	11.4	8.2	12.4

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#88

Benzo(k)fluoranthene

Concen: 3.63 ng m

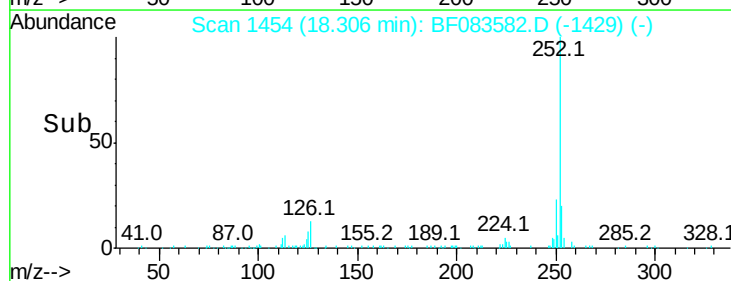
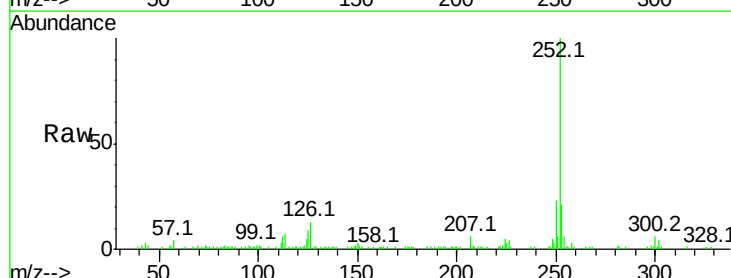
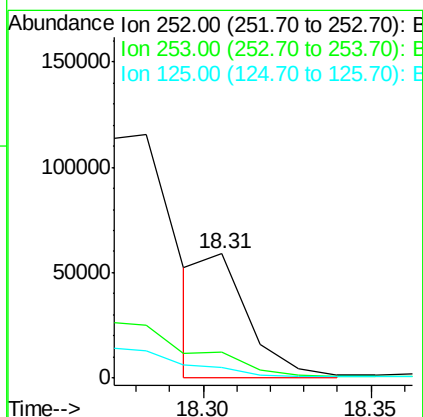
RT: 18.31 min Scan# 1454

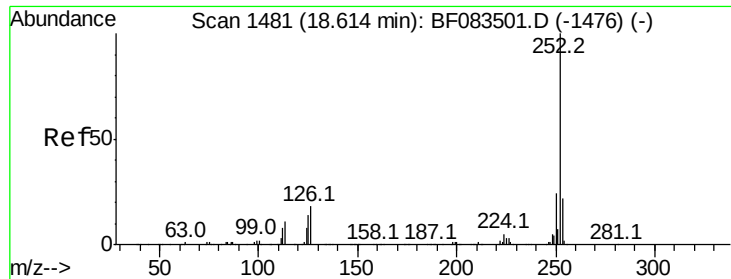
Delta R.T. -0.01 min

Lab File: BF083582.D

Acq: 8 Dec 2015 5:13

Tgt Ion:	252	Resp:	55845
Ion Ratio	Lower	Upper	
252	100		
253	20.8	18.6	27.8
125	8.8	11.5	17.3#





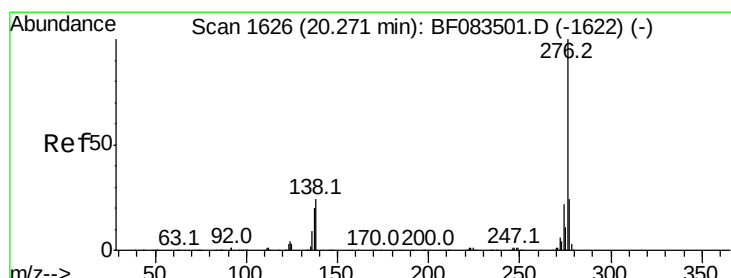
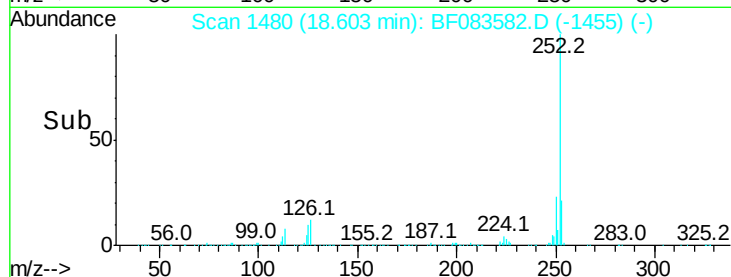
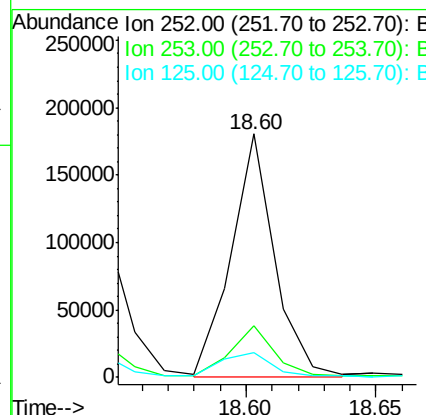
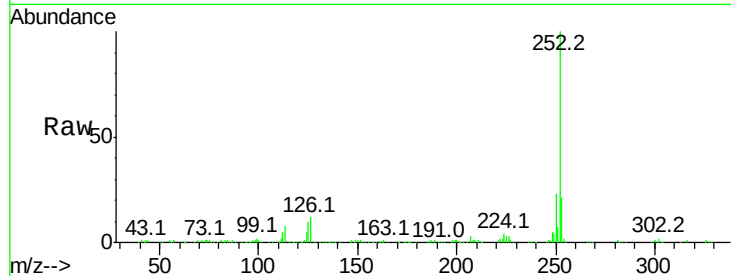
#89
Benzo(a)pyrene
Concen: 14.30 ng/mL
RT: 18.60 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL2

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	21.3	17.5	26.3
125	9.9	11.0	16.6

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 8.36 ng/mL
RT: 20.27 min Scan# 1626
Delta R.T. 0.00 min
Lab File: BF083582.D
Acq: 8 Dec 2015 5:13

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	24.4	19.2	28.8
138	19.3	19.5	29.3

