

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
 Data File : BF083586.D
 Acq On : 8 Dec 2015 7:13
 Operator : UM/IZ
 Sample : G4584-08DL2 50X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL2

Manual Integrations
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 12/8/2015 6:15:57 PM

Quant Time: Dec 08 14:17:29 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	133676	20.00	ng	-0.05
21) Naphthalene-d8	7.62	136	490603	20.00	ng	-0.06
38) Acenaphthene-d10	10.41	164	207066	20.00	ng	-0.06
63) Phenanthrene-d10	12.81	188	340155	20.00	ng	-0.05
75) Chrysene-d12	17.01	240	319245	20.00	ng	-0.03
86) Perylene-d12	18.65	264	231429	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.06	112	17200	1.95	ng	0.03
7) Phenol-d6	5.34	99	23428	1.93	ng	0.02
23) Nitrobenzene-d5	6.59	82	17689	1.69	ng	-0.01
41) 2,4,6-Tribromophenol	11.72	330	3257	1.71	ng	-0.03
44) 2-Fluorobiphenyl	9.37	172	30563	2.00	ng	-0.06
78) Terphenyl-d14	15.44	244	23844	1.66	ng	-0.05
Target Compounds						Qvalue
31) Naphthalene	7.65	128	1248291	47.80	ng	99
37) 2-Methylnaphthalene	8.76	142	140981	8.73	ng	98
45) 1,1'-Biphenyl	9.52	154	59779	3.25	ng	99
48) Acenaphthylene	10.19	152	66498	2.93	ng	99
51) Acenaphthene	10.46	154	151726	11.61	ng	99
57) Fluorene	11.30	166	96377	6.12	ng	99
70) Phenanthrene	12.84	178	554737	28.02	ng	99
71) Anthracene	12.93	178	134576	6.66	ng	99
74) Fluoranthene	14.77	202	285813	14.57	ng	98
77) Pyrene	15.13	202	374745	15.69	ng	99
80) Benzo(a)anthracene	17.00	228	116803m	6.25	ng	
82) Chrysene	17.05	228	100895	5.42	ng	99
85) Indeno(1,2,3-cd)pyrene	19.92	276	35722	2.24	ng	# 100
87) Benzo(b)fluoranthene	18.28	252	87065m	6.70	ng	
89) Benzo(a)pyrene	18.60	252	85229m	6.74	ng	
91) Benzo(g,h,i)perylene	20.27	276	43344	3.54	ng	96

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

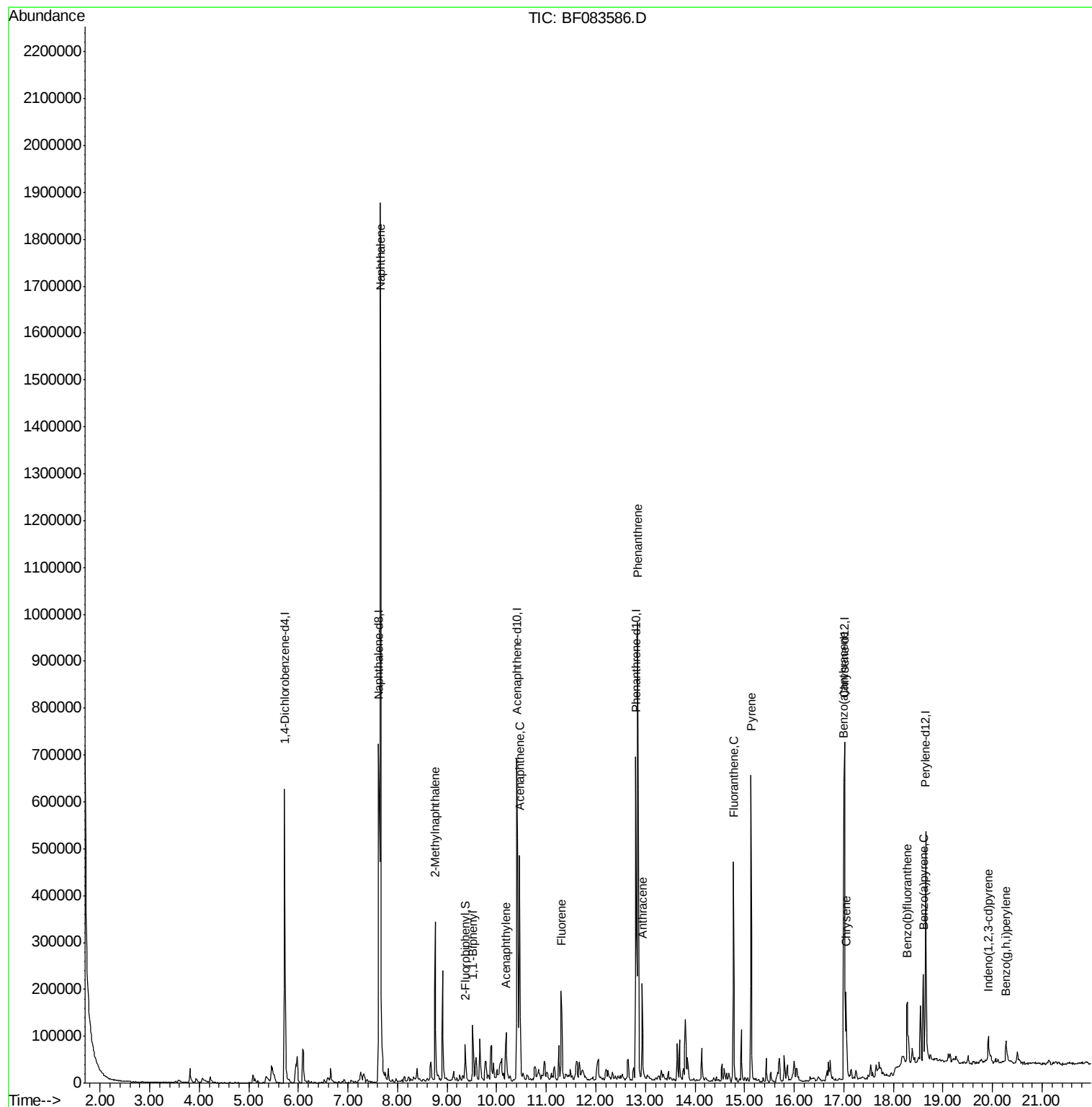
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
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ALS Vial : 28 Sample Multiplier: 1

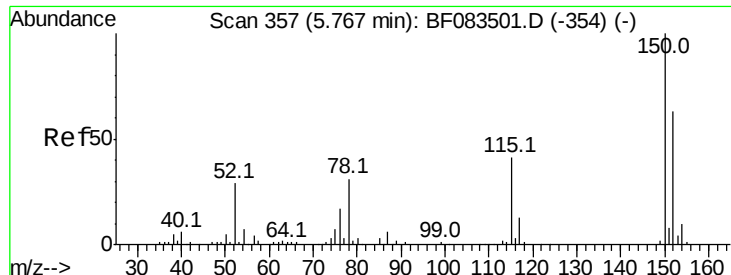
Instrument :
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SB-P3WC-15(0-8)DL2

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QLast Update : Sat Dec 05 04:12:46 2015
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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: BF083586.D

Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

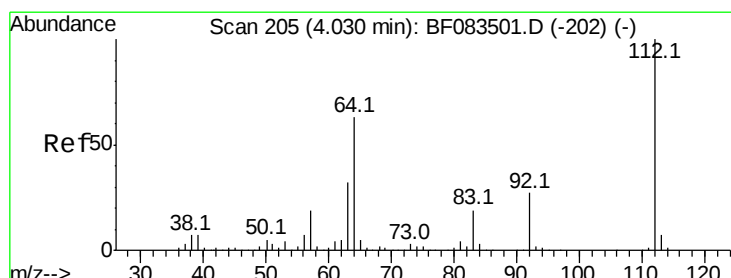
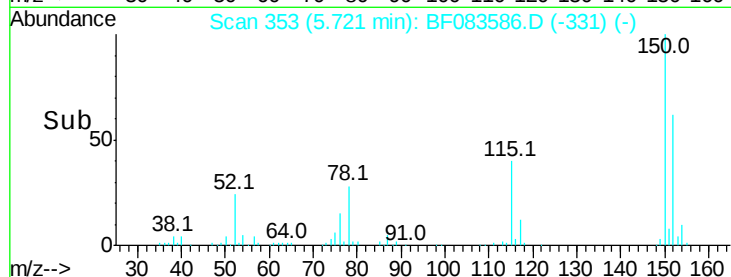
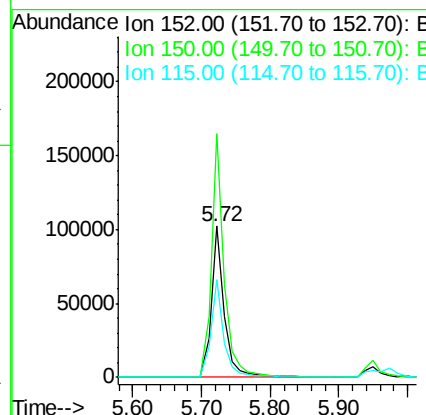
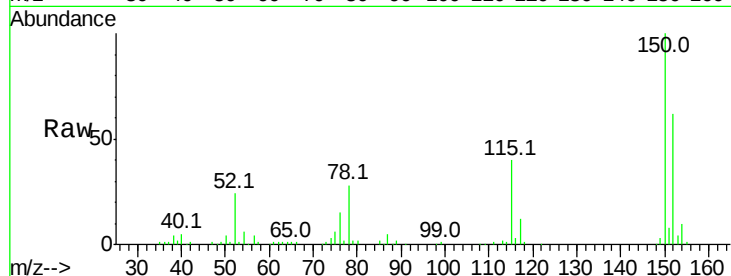
ClientSampleId :

SB-P3WC-15(0-8)DL2

Tot Ion:	152	Resp:	133676
Ion Ratio	Lower	Upper	
152	100		
150	161.3	126.5	189.7
115	64.4	52.3	78.5

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#5

2-Fluorophenol

Concen: 1.95 ng

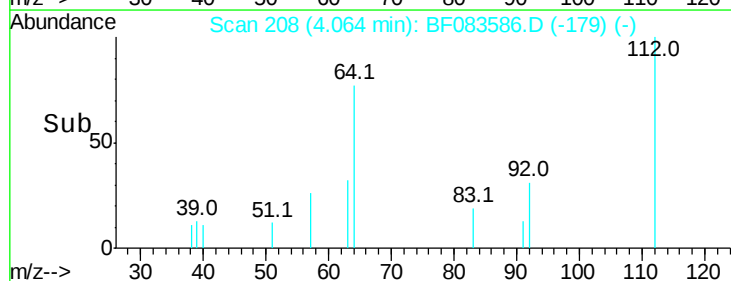
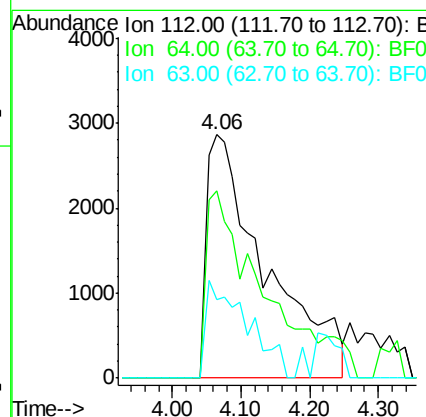
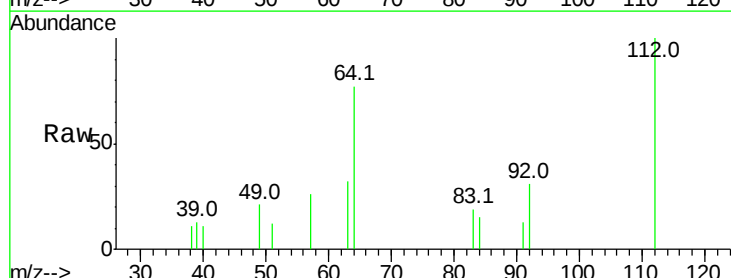
RT: 4.06 min Scan# 208

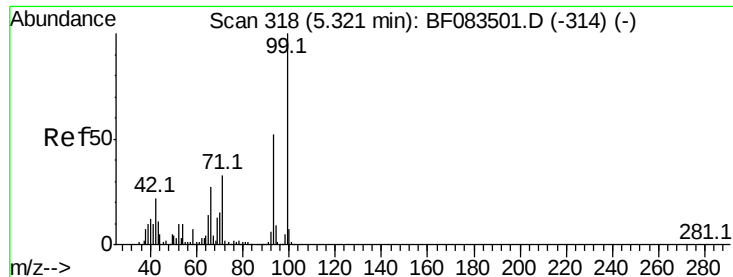
Delta R.T. 0.03 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Tgt Ion:	112	Resp:	17200
Ion Ratio	Lower	Upper	
112	100		
64	76.8	50.5	75.7#
63	32.4	25.8	38.6





#7

Phenol-d6

Concen: 1.93 ng

RT: 5.34 min Scan# 320

Delta R.T. 0.02 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

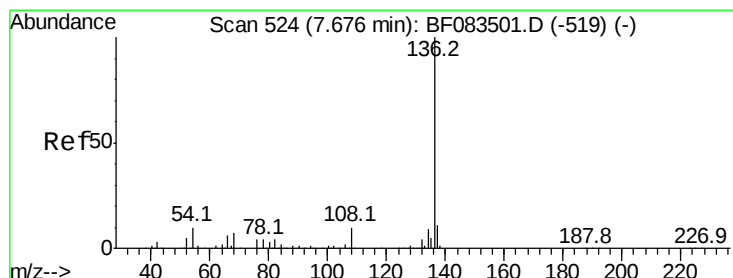
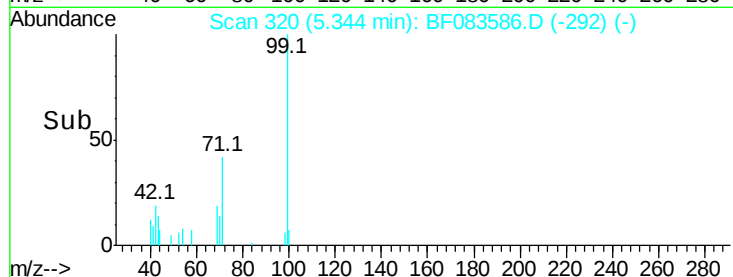
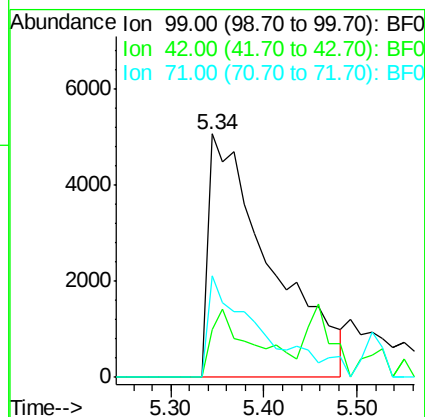
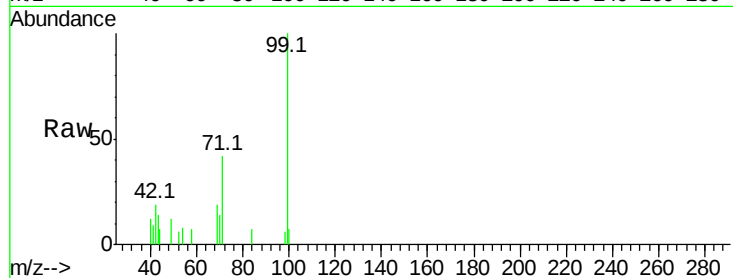
ClientSampleId :

SB-P3WC-15(0-8)DL2

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		23428		
42	19.4	17.3	25.9		
71	41.9	26.6	40.0#		



#21

Naphthalene-d8

Concen: 20.00 ng

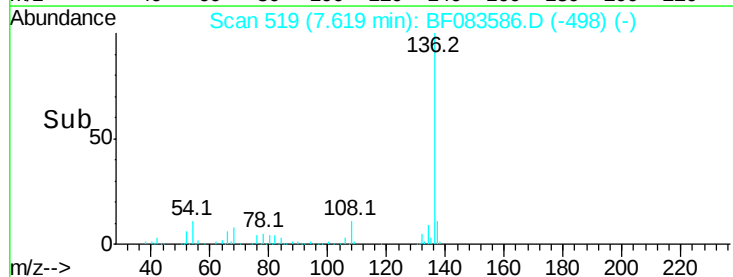
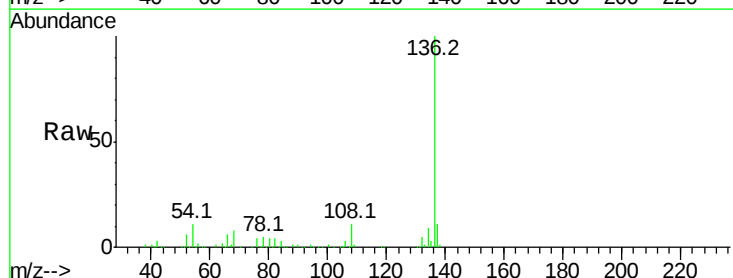
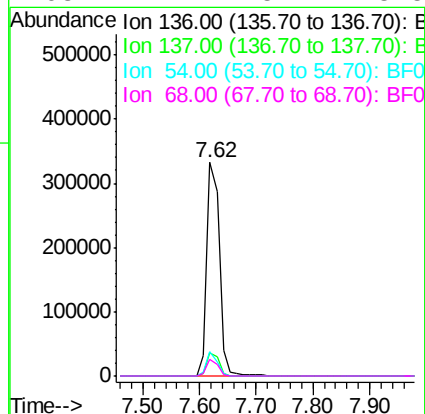
RT: 7.62 min Scan# 519

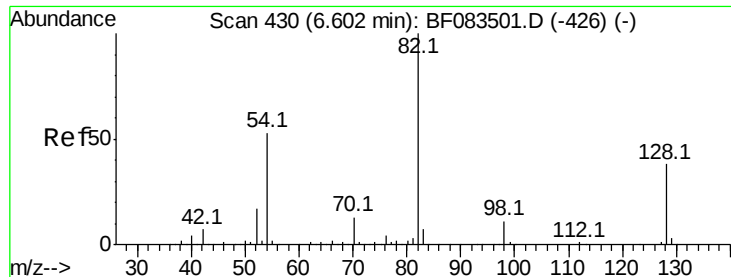
Delta R.T. -0.06 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		490603		
137	11.0	8.7	13.1		
54	11.5	7.8	11.6		
68	7.7	5.7	8.5		





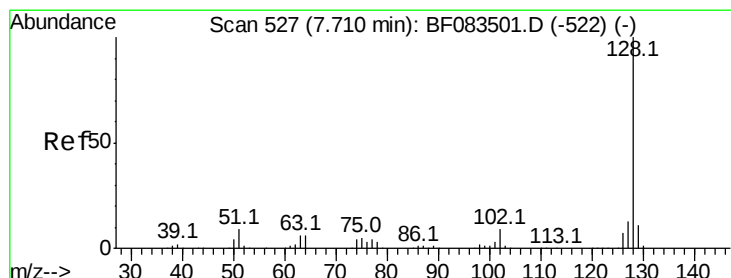
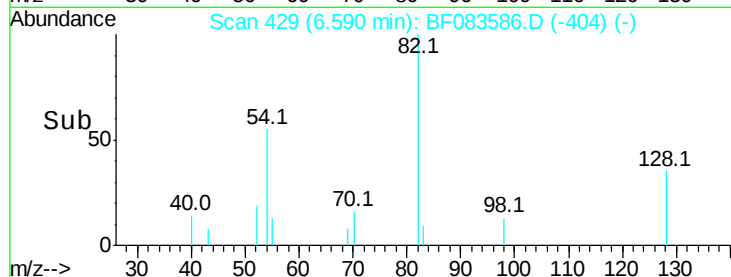
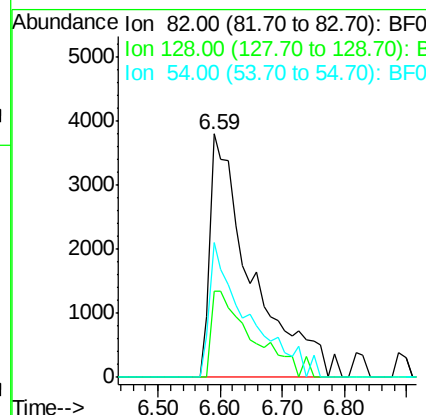
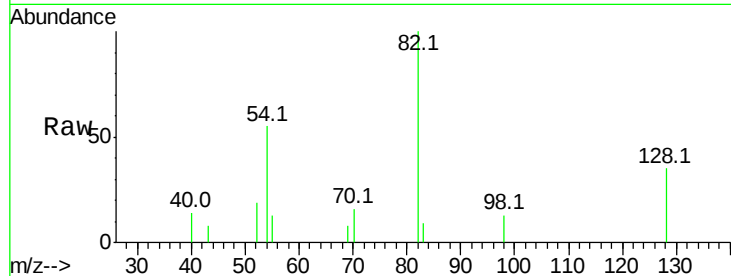
#23
 Nitrobenzene-d5
 Concen: 1.69 ng
 RT: 6.59 min Scan# 429
 Delta R.T. -0.01 min
 Lab File: BF083586.D
 Acq: 8 Dec 2015 7:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL2

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.4	30.7	46.1
54	55.3	42.5	63.7

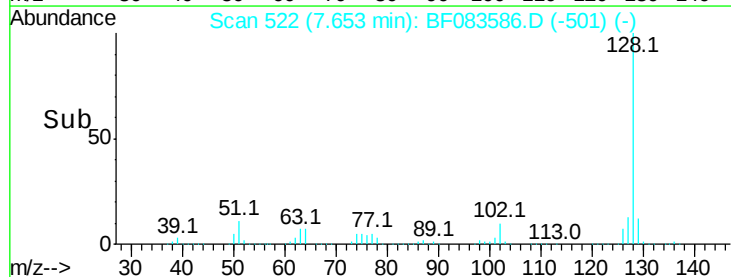
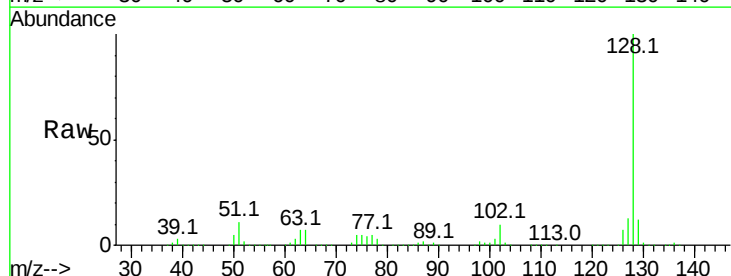
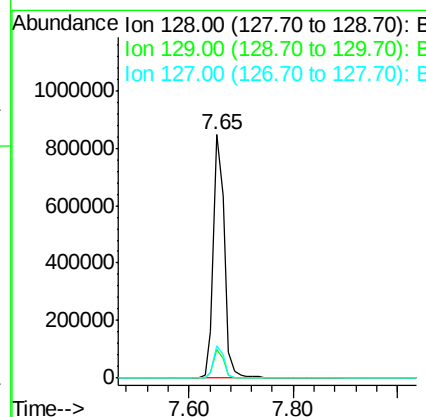
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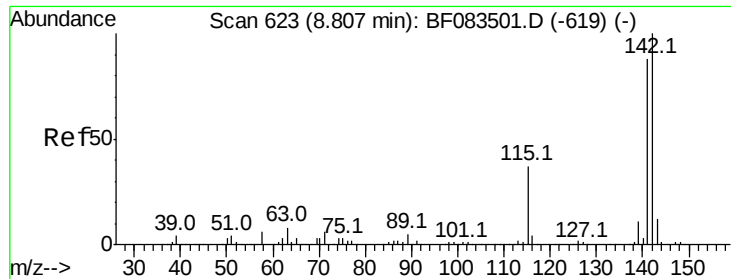
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#31
 Naphthalene
 Concen: 47.80 ng
 RT: 7.65 min Scan# 522
 Delta R.T. -0.06 min
 Lab File: BF083586.D
 Acq: 8 Dec 2015 7:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.6	13.0
127	13.2	10.6	16.0





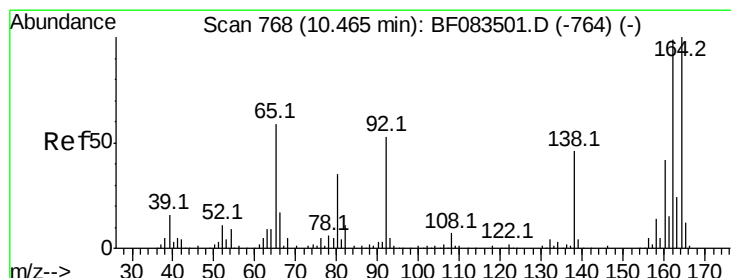
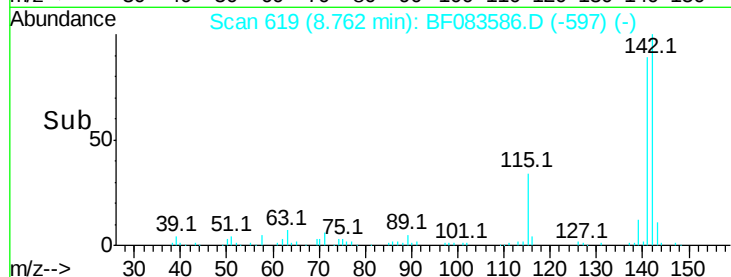
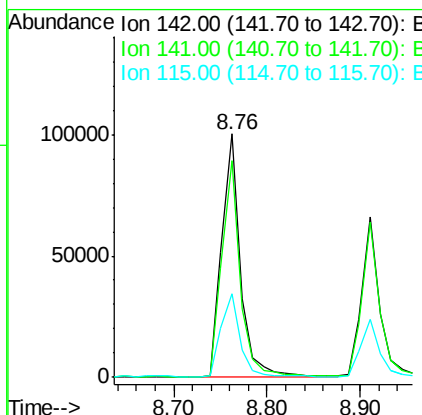
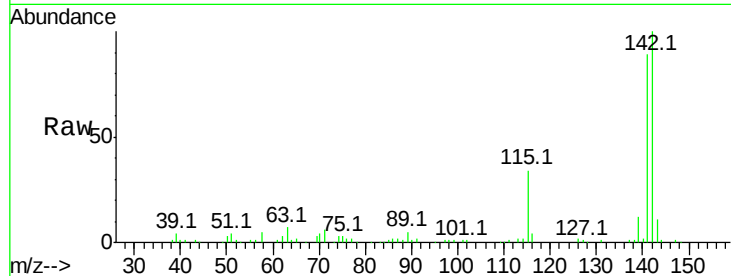
#37
 2-Methylnaphthalene
 Concen: 8.73 ng
 RT: 8.76 min Scan# 619
 Delta R.T. -0.05 min
 Lab File: BF083586.D
 Acq: 8 Dec 2015 7:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL2

Tot Ion	Ratio	Resp	Lower	Upper
142	100	140981		
141	89.1	70.3	105.5	
115	34.1	29.2	43.8	

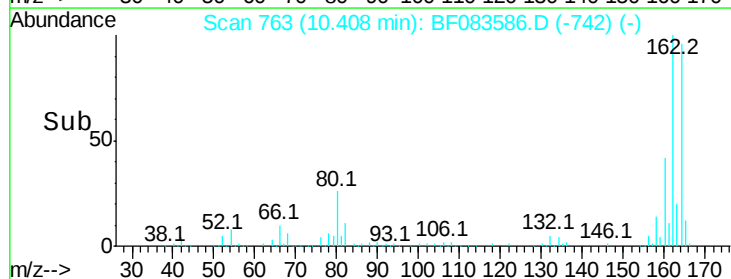
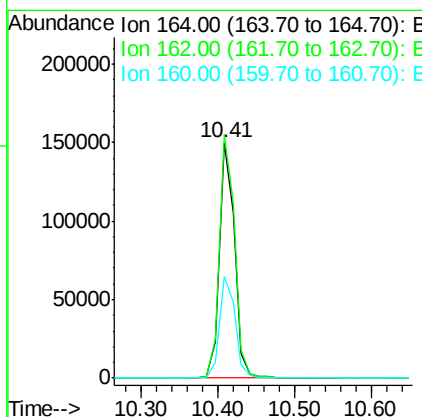
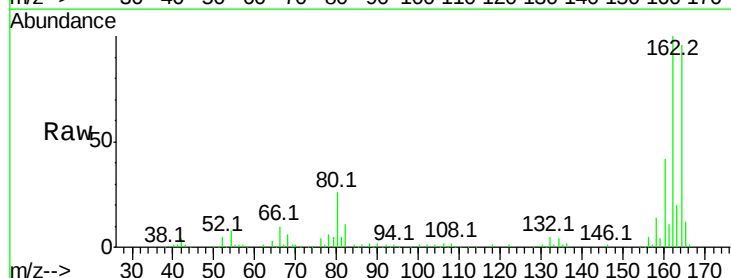
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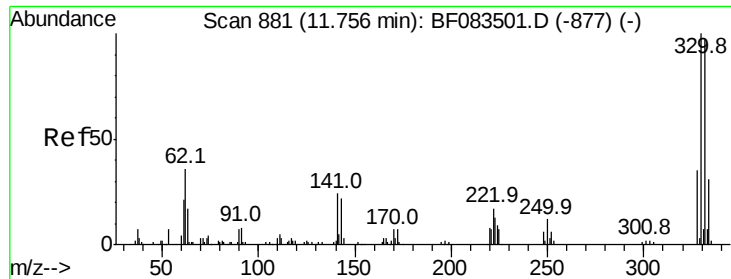
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.41 min Scan# 763
 Delta R.T. -0.06 min
 Lab File: BF083586.D
 Acq: 8 Dec 2015 7:13

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	207066		
162	103.7	78.8	118.2	
160	43.5	33.4	50.2	





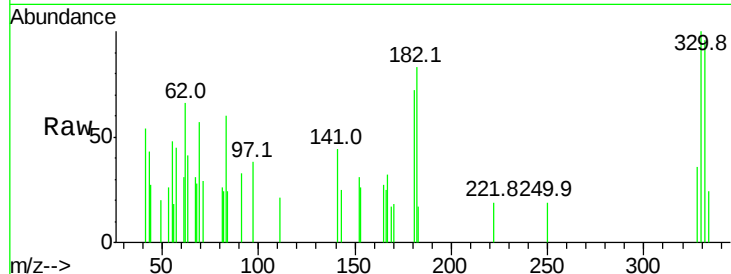
#41
 2,4,6-Tribromophenol
 Concen: 1.71 ng
 RT: 11.72 min Scan# 878
 Delta R.T. -0.03 min
 Lab File: BF083586.D
 Acq: 8 Dec 2015 7:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)DL2

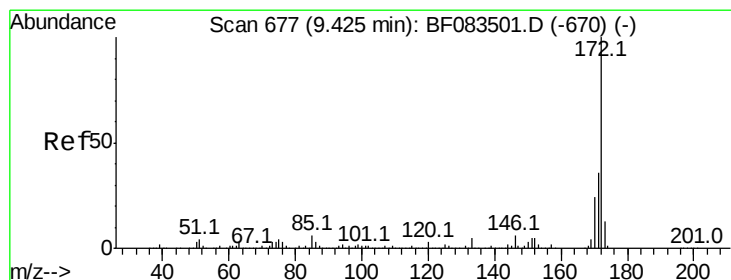
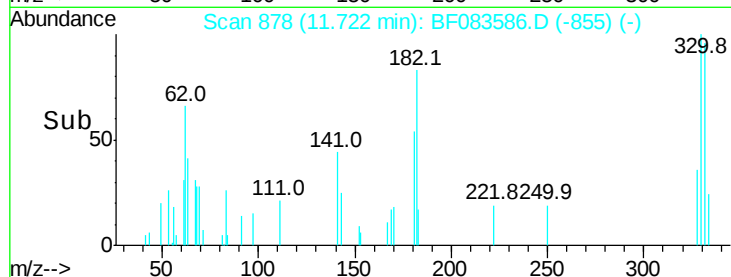
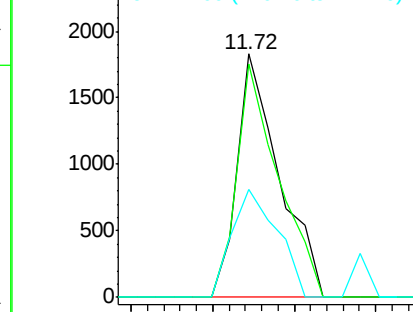
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.7	0.0	0.0	0.0
141	47.9	0.0	0.0	0.0

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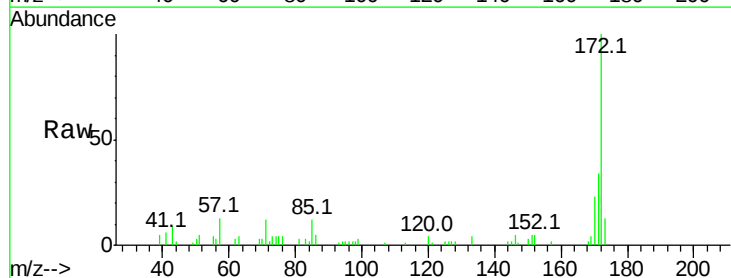


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

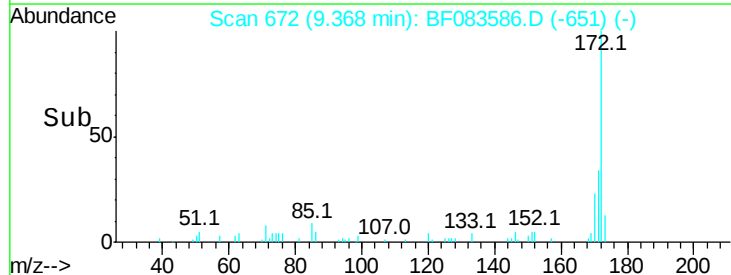
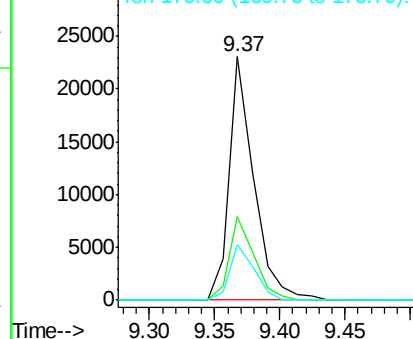


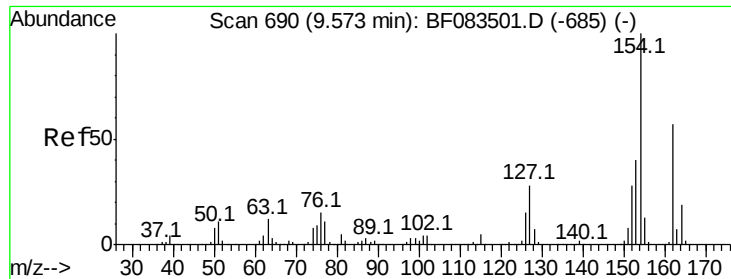
#44
 2-Fluorobiphenyl
 Concen: 2.00 ng
 RT: 9.37 min Scan# 672
 Delta R.T. -0.06 min
 Lab File: BF083586.D
 Acq: 8 Dec 2015 7:13

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.3	28.6	42.8	
170	23.0	19.4	29.0	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 3.25 ng

RT: 9.52 min Scan# 685

Delta R.T. -0.06 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

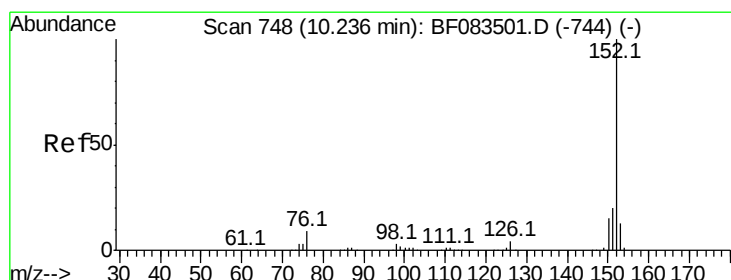
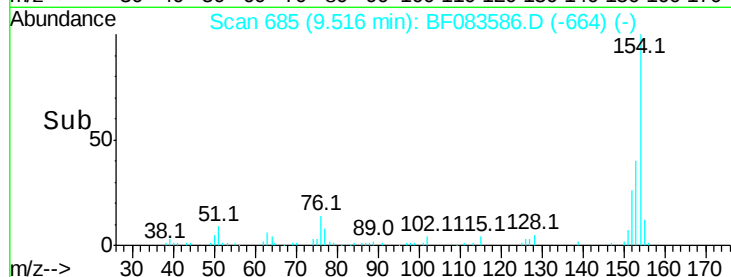
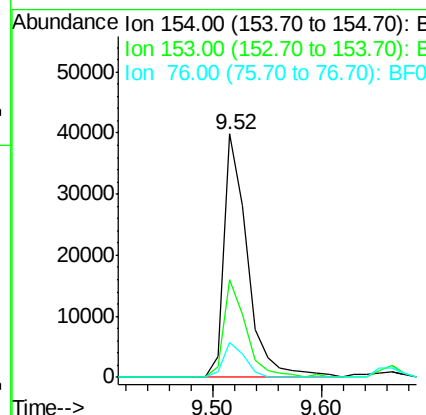
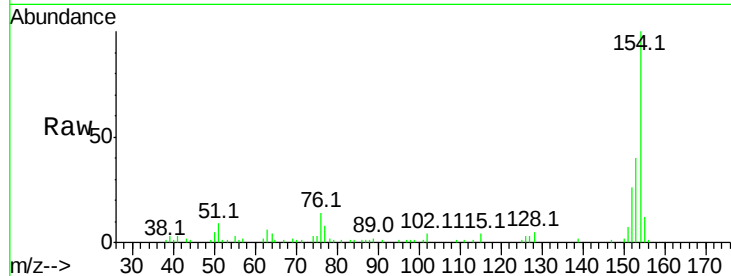
ClientSampleId :

SB-P3WC-15(0-8)DL2

Tot Ion:	154	Resp:	59779
Ion Ratio	Lower	Upper	
154	100		
153	40.0	20.2	60.2
76	14.3	0.0	34.8

Manual Integrations
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#48

Acenaphthylene

Concen: 2.93 ng

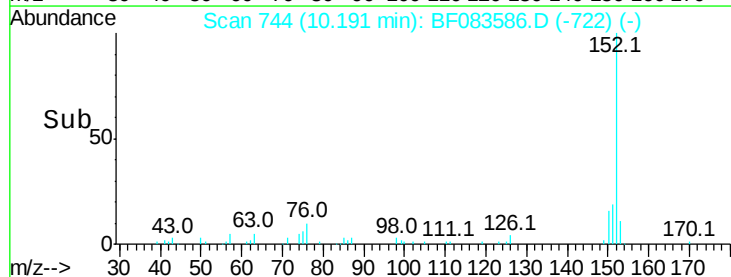
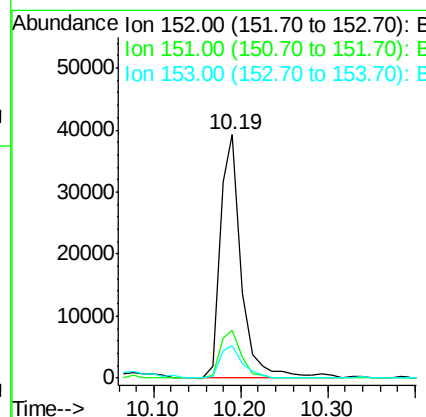
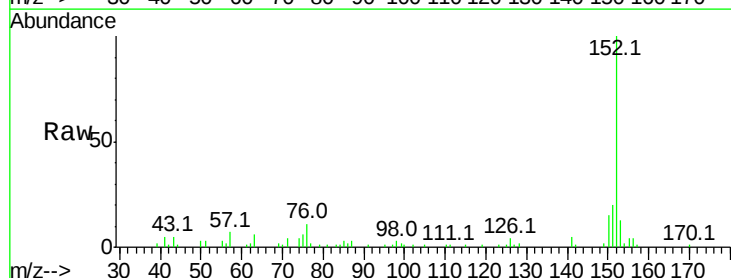
RT: 10.19 min Scan# 744

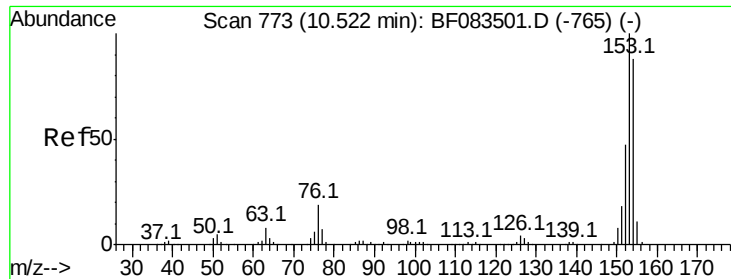
Delta R.T. -0.05 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Tgt Ion:	152	Resp:	66498
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.3	24.5
153	13.4	10.8	16.2





#51

Acenaphthene

Concen: 11.61 ng

RT: 10.46 min Scan# 768

Delta R.T. -0.06 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

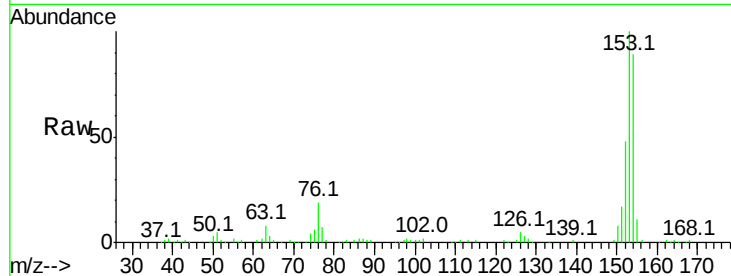
ClientSampleId :

SB-P3WC-15(0-8)DL2

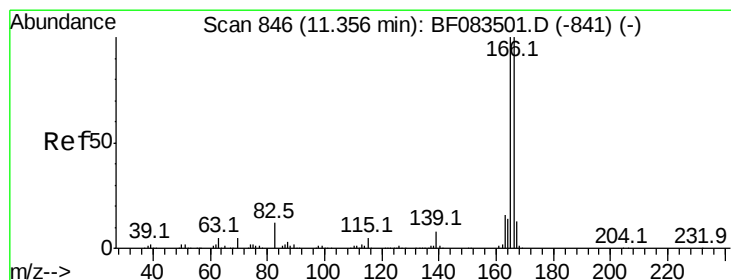
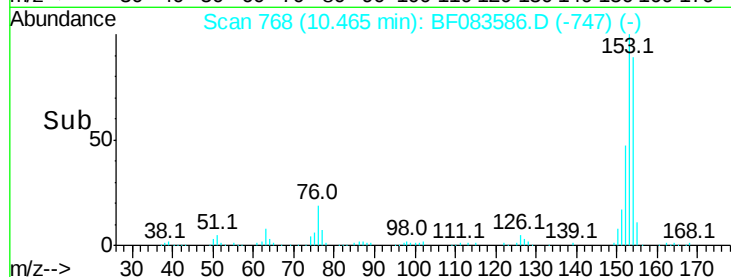
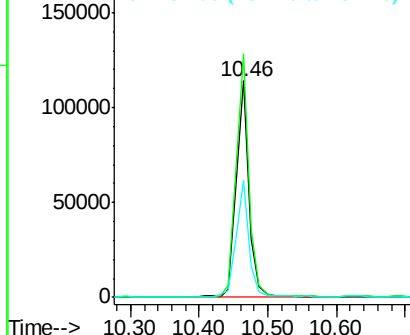
Tot Ion:	154	Resp:	151726
Ion Ratio	Lower	Upper	
154	100		
153	112.5	91.4	137.0
152	54.2	43.4	65.2

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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: 6.12 ng

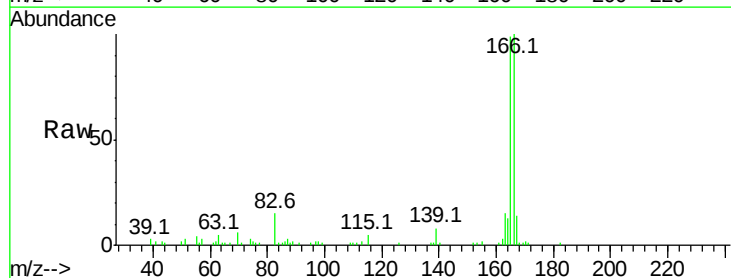
RT: 11.30 min Scan# 841

Delta R.T. -0.06 min

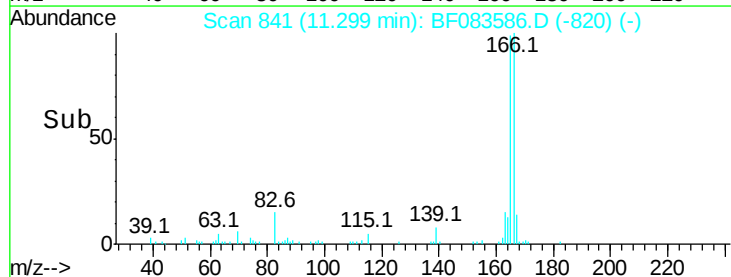
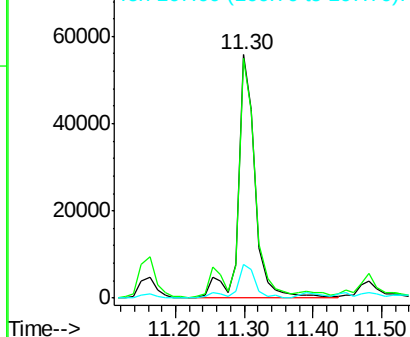
Lab File: BF083586.D

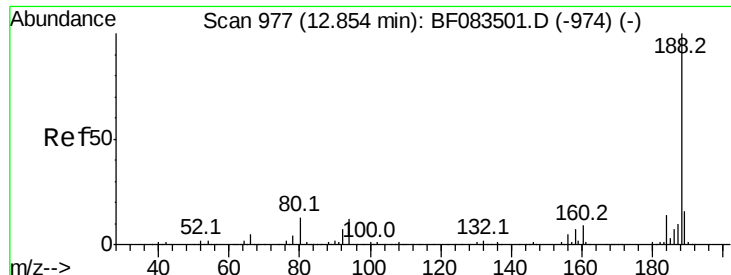
Acq: 8 Dec 2015 7:13

Tgt Ion:	166	Resp:	96377
Ion Ratio	Lower	Upper	
166	100		
165	98.5	80.0	120.0
167	13.7	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





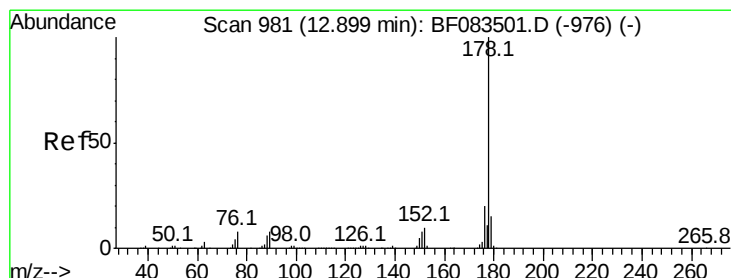
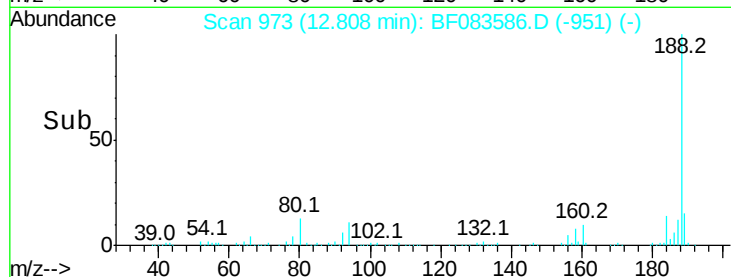
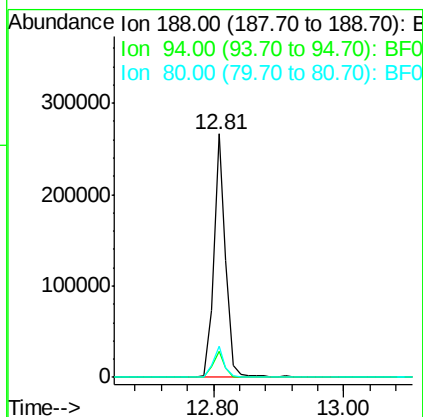
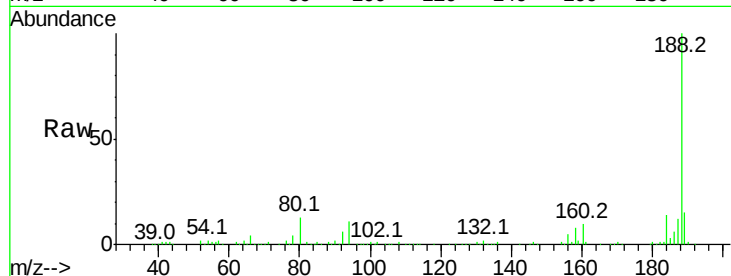
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.81 min Scan# 973
Delta R.T. -0.05 min
Lab File: BF083586.D
Acq: 8 Dec 2015 7:13

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL2

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.8	9.4	14.2	
80	12.7	10.6	16.0	

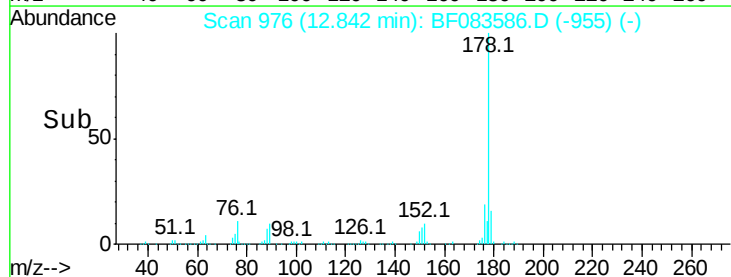
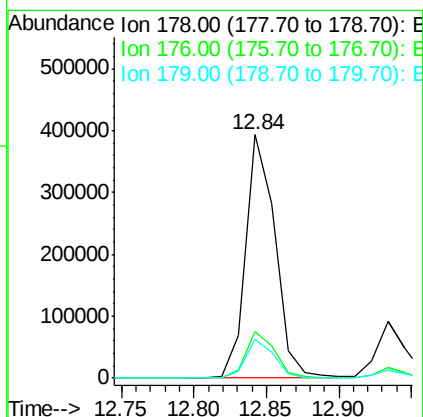
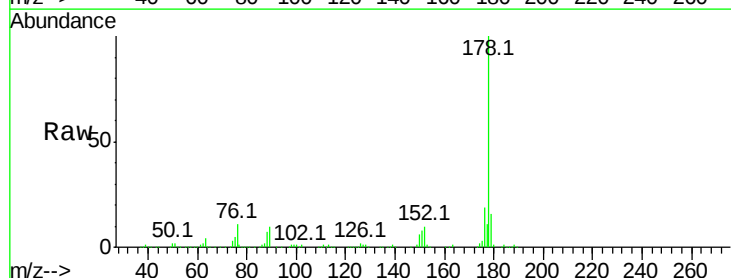
Manual Integrations
APPROVED

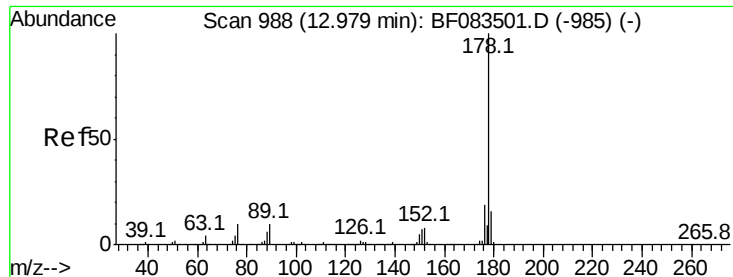
Mmdadoda
12/8/2015 6:15:57 PM



#70
Phenanthrene
Concen: 28.02 ng
RT: 12.84 min Scan# 976
Delta R.T. -0.06 min
Lab File: BF083586.D
Acq: 8 Dec 2015 7:13

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	19.0	15.7	23.5	
179	15.8	12.2	18.4	





#71

Anthracene

Concen: 6.66 ng

RT: 12.93 min Scan# 984

Delta R.T. -0.05 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

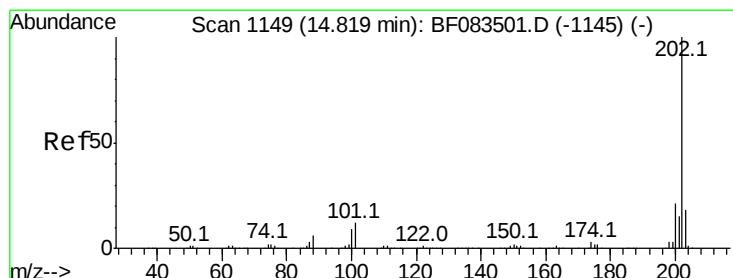
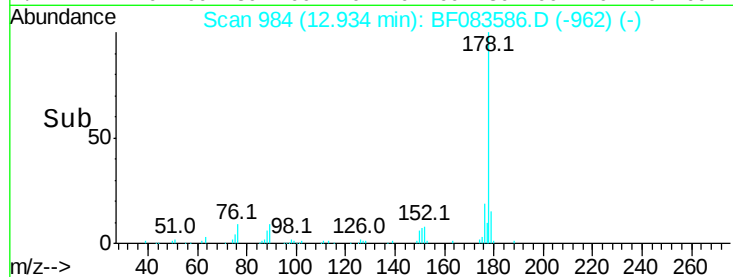
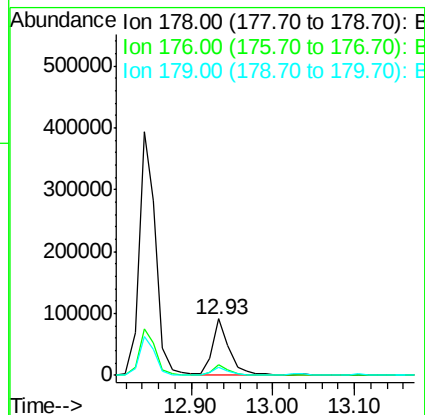
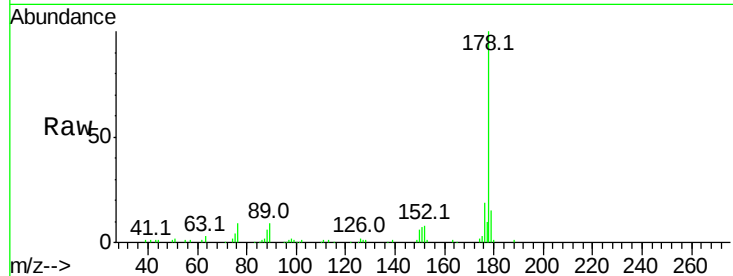
ClientSampleId :

SB-P3WC-15(0-8)DL2

Manual Integrations
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Tot Ion:	178	Resp:	134576
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.2	22.8
179	15.1	12.6	18.8



#74

Fluoranthene

Concen: 14.57 ng

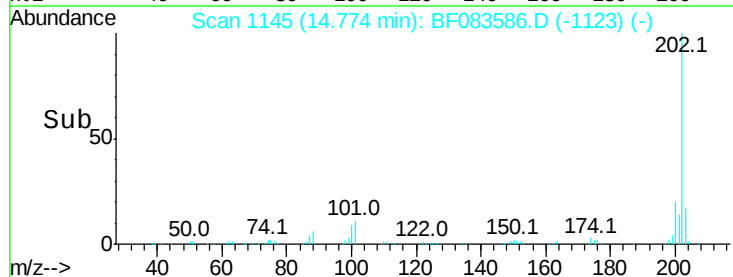
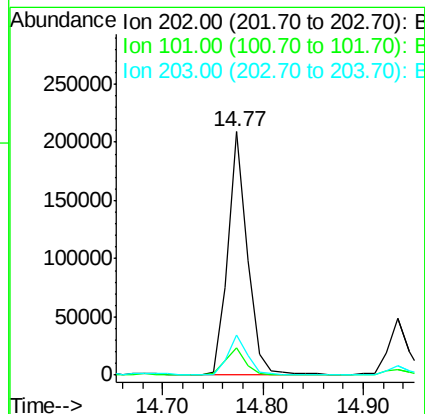
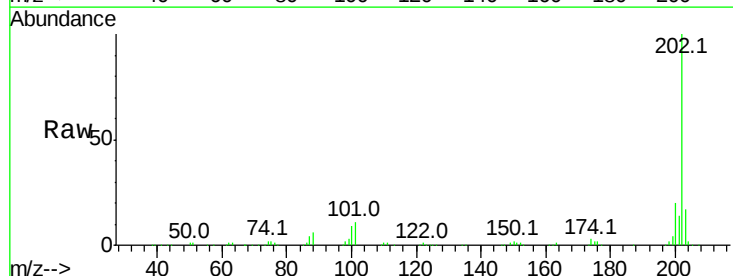
RT: 14.77 min Scan# 1145

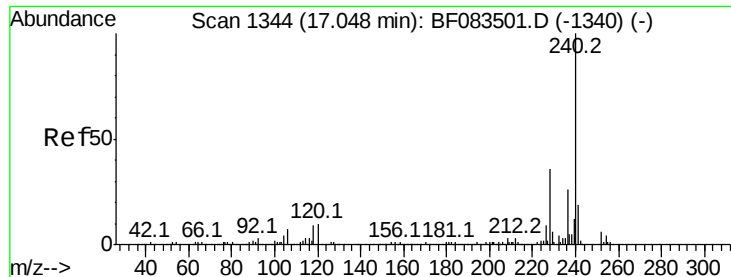
Delta R.T. -0.05 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Tgt Ion:	202	Resp:	285813
Ion Ratio	Lower	Upper	
202	100		
101	11.2	0.0	31.5
203	16.5	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 17.01 min Scan# 1341

Delta R.T. -0.03 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

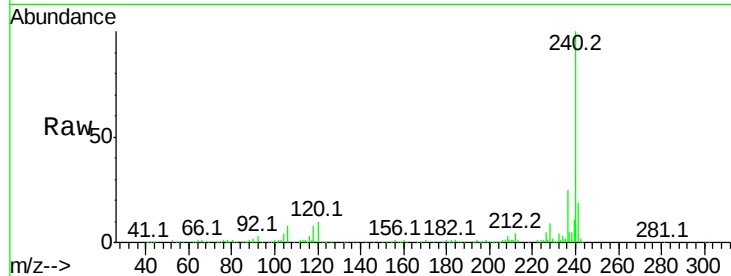
ClientSampleId :

SB-P3WC-15(0-8)DL2

Tot Ion:	240	Resp:	319245
Ion Ratio	Lower	Upper	
240	100		
120	9.5	8.1	12.1
236	24.7	20.8	31.2

Manual Integrations
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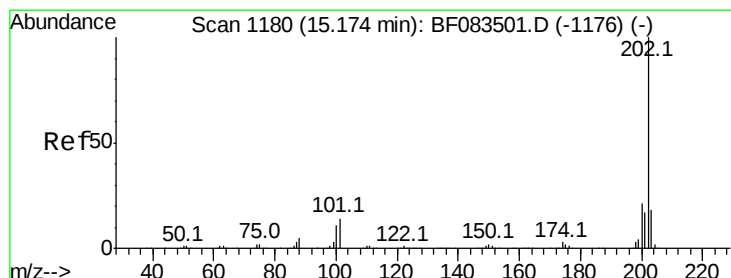
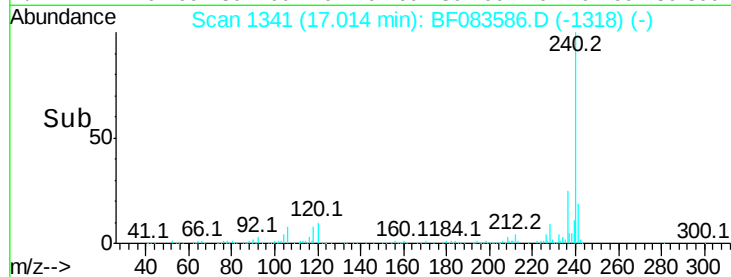
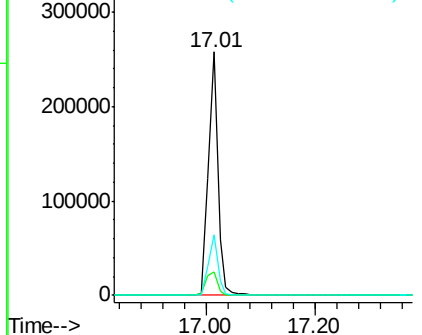
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 15.69 ng

RT: 15.13 min Scan# 1176

Delta R.T. -0.05 min

Lab File: BF083586.D

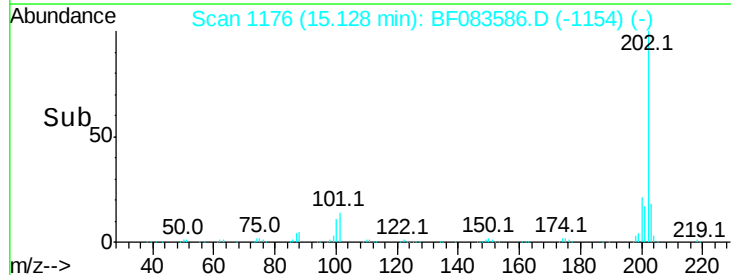
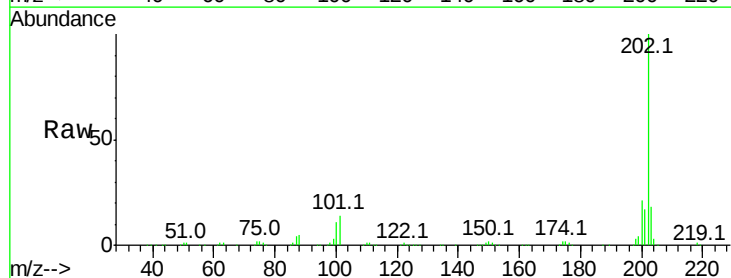
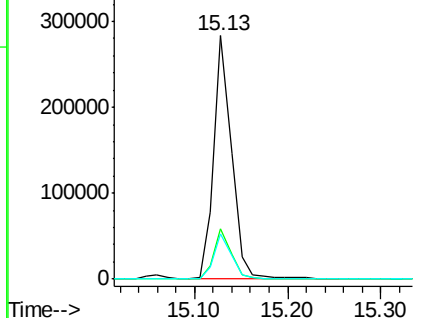
Acq: 8 Dec 2015 7:13

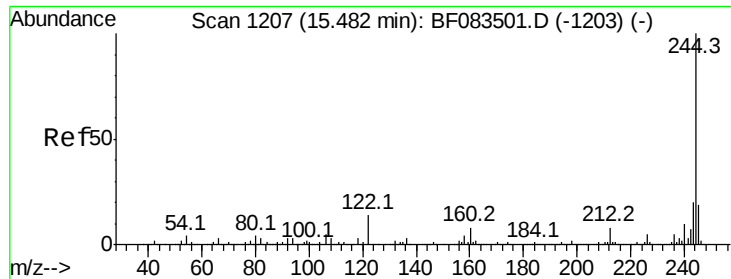
Tgt Ion:	202	Resp:	374745
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.7	25.1
203	18.5	14.3	21.5

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 1.66 ng

RT: 15.44 min Scan# 1203

Delta R.T. -0.05 min

Lab File: BF083586.D

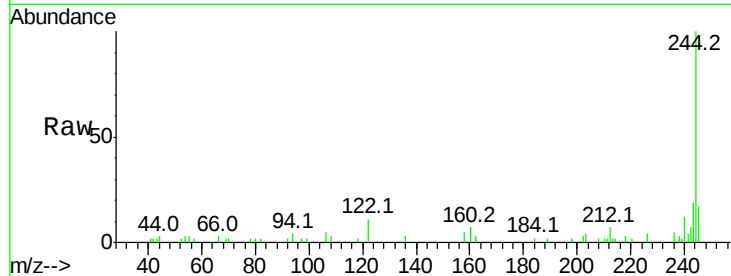
Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

ClientSampleId :

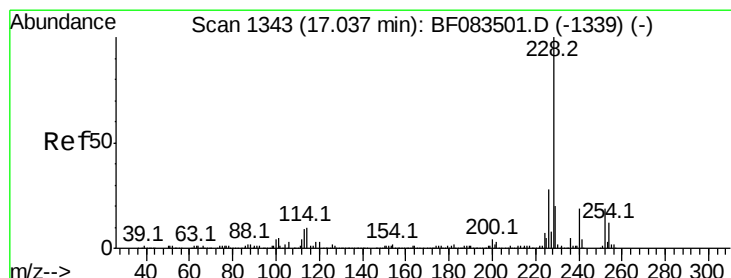
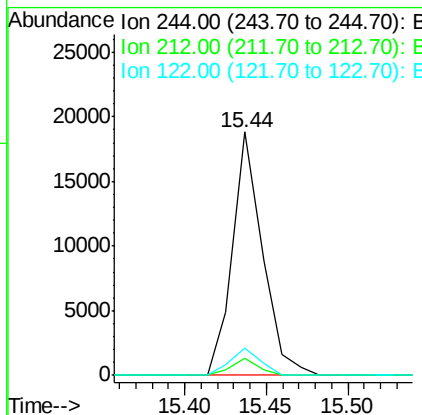
SB-P3WC-15(0-8)DL2



Tot Ion:	244	Resp:	23844
Ion Ratio	Lower	Upper	
244	100		
212	6.8	6.1	9.1
122	11.2	11.0	16.6

Manual Integrations
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#80

Benzo(a)anthracene

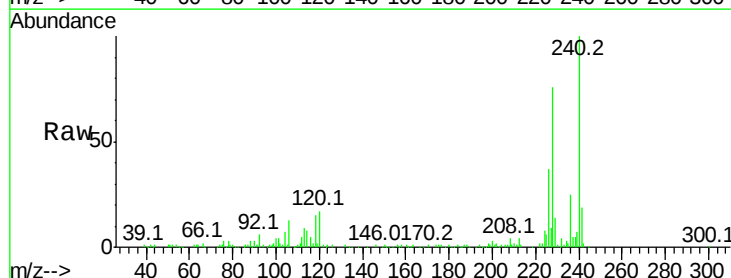
Concen: 6.25 ng m

RT: 17.00 min Scan# 1340

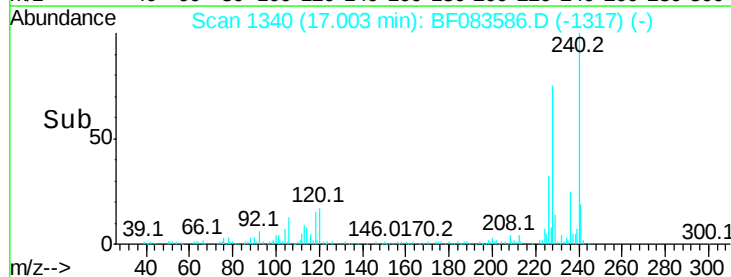
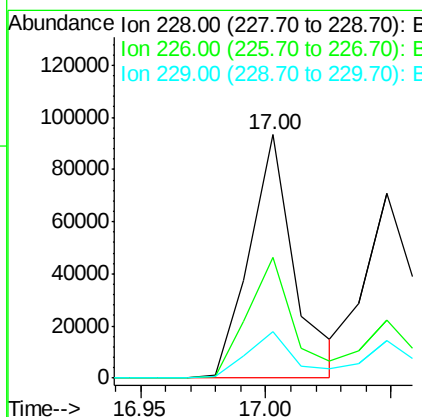
Delta R.T. -0.03 min

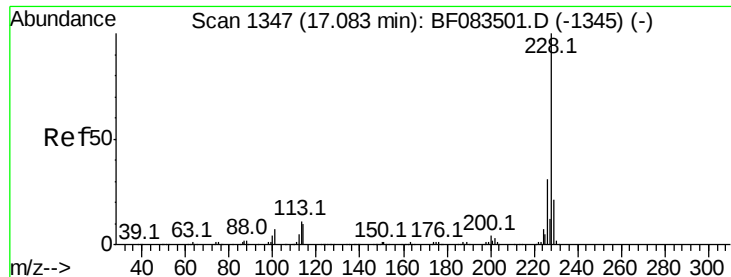
Lab File: BF083586.D

Acq: 8 Dec 2015 7:13



Tgt Ion:	228	Resp:	116803
Ion Ratio	Lower	Upper	
228	100		
226	49.6	22.3	33.5#
229	19.1	15.7	23.5





#82

Chrysene

Concen: 5.42 ng

RT: 17.05 min Scan# 1344

Delta R.T. -0.03 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

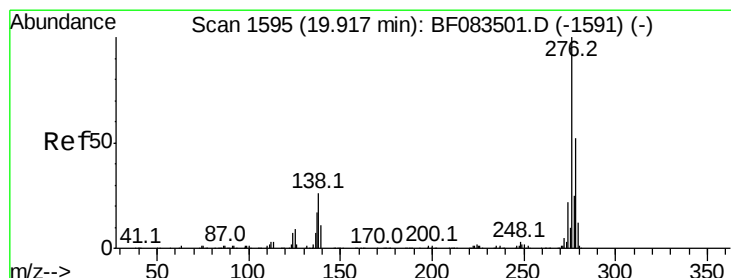
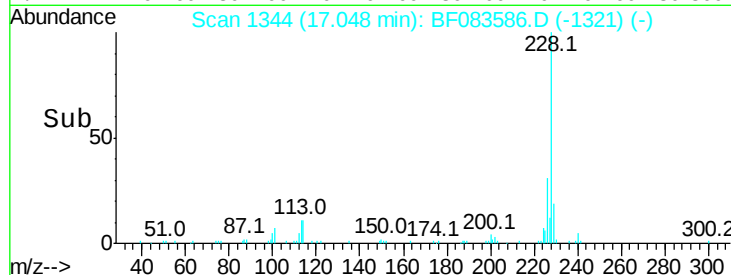
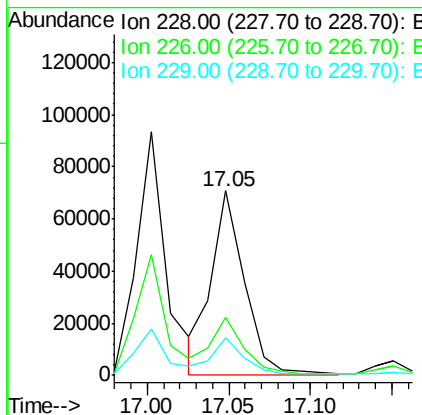
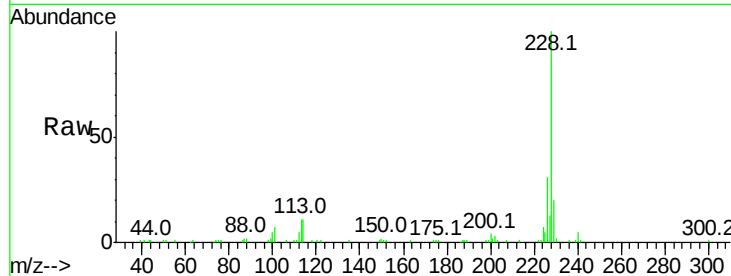
ClientSampleId :

SB-P3WC-15(0-8)DL2

Tot Ion:	228	Resp:	100895
Ion Ratio	Lower	Upper	
228	100		
226	31.3	24.7	37.1
229	20.3	16.3	24.5

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.24 ng

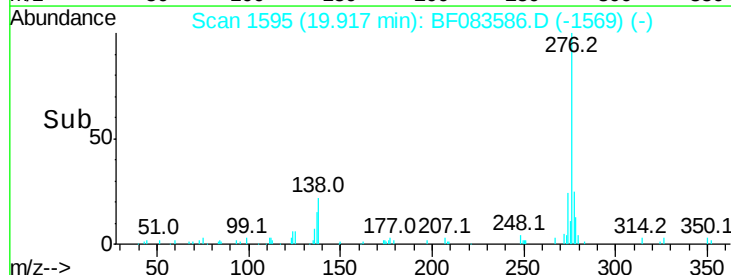
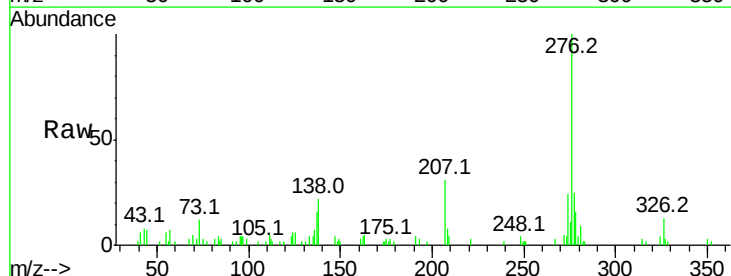
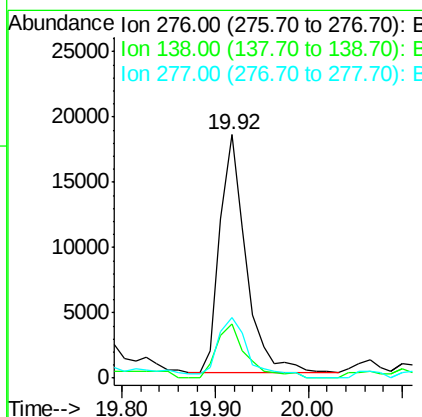
RT: 19.92 min Scan# 1595

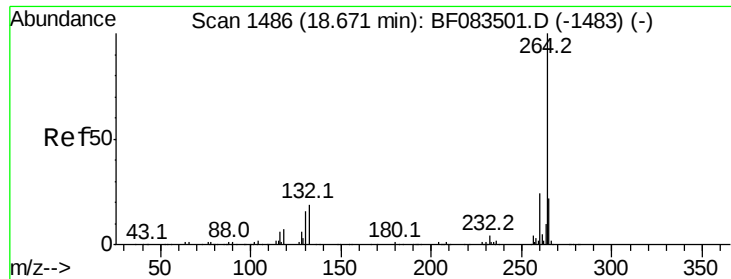
Delta R.T. 0.00 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Tgt Ion:	276	Resp:	35722
Ion Ratio	Lower	Upper	
276	100		
138	26.1	0.0	0.0#
277	30.4	0.0	0.0#





#86

Pervlene-d12

Concen: 20.00 ng

RT: 18.65 min Scan# 1484

Delta R.T. -0.02 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Instrument :

BNA_F

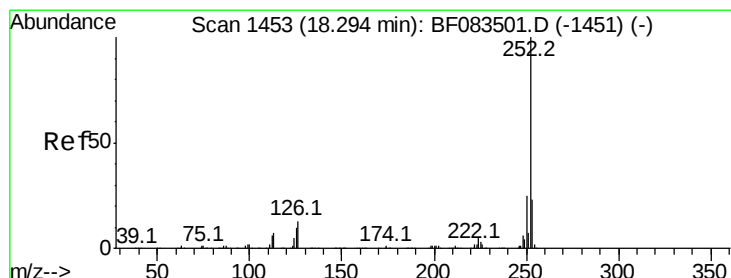
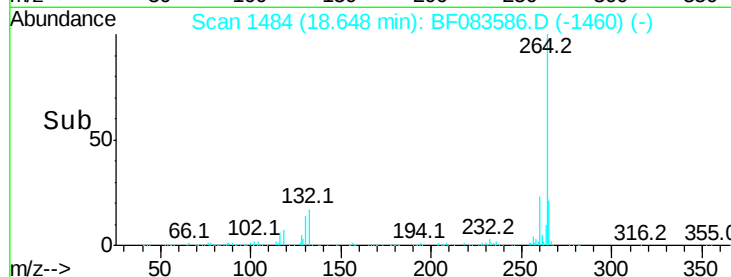
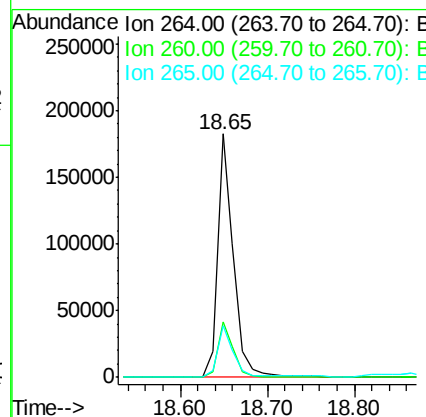
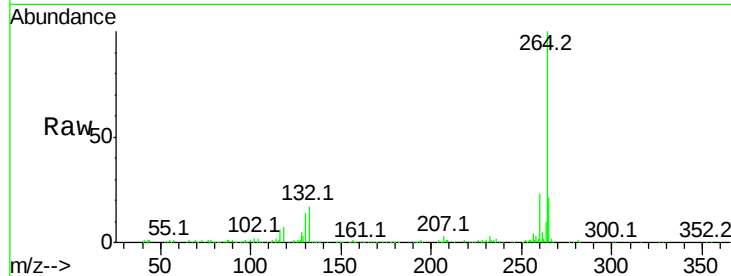
ClientSampleId :

SB-P3WC-15(0-8)DL2

Tot Ion:	264	Resp:	231429
Ion Ratio	Lower	Upper	
264	100		
260	23.0	19.4	29.0
265	21.0	17.8	26.6

Manual Integrations
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#87

Benzo(b)fluoranthene

Concen: 6.70 ng m

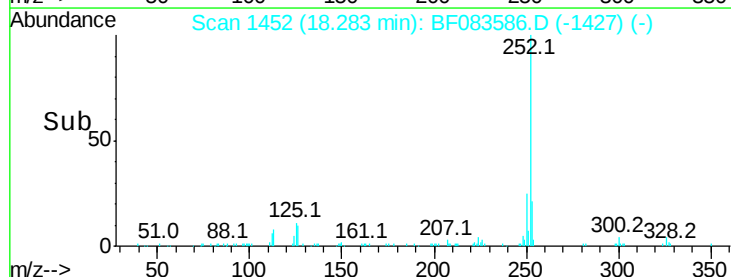
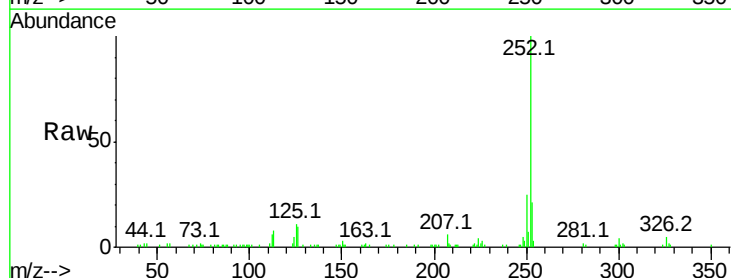
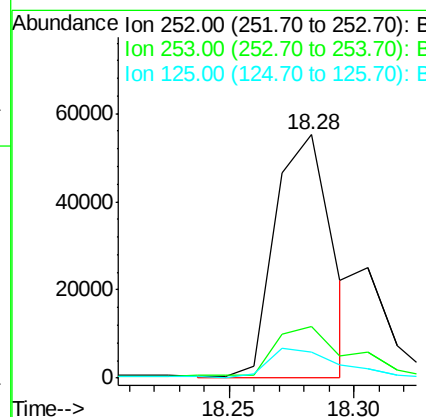
RT: 18.28 min Scan# 1452

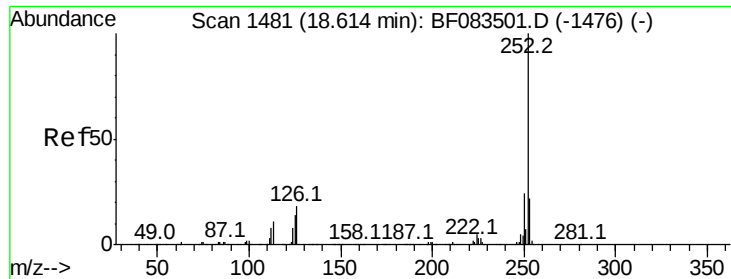
Delta R.T. -0.01 min

Lab File: BF083586.D

Acq: 8 Dec 2015 7:13

Tgt Ion:	252	Resp:	87065
Ion Ratio	Lower	Upper	
252	100		
253	21.4	18.2	27.4
125	10.5	8.2	12.4





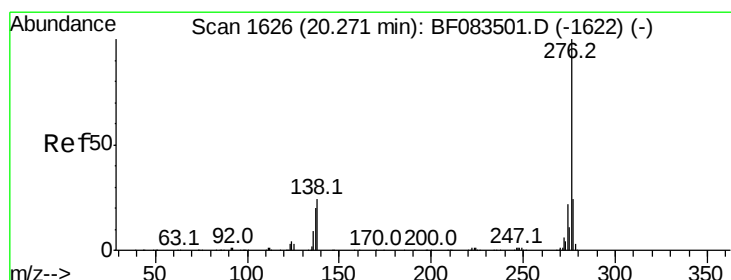
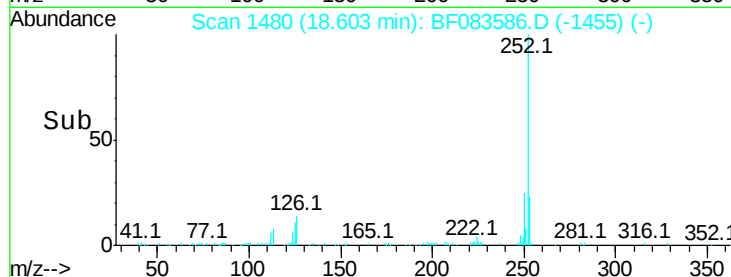
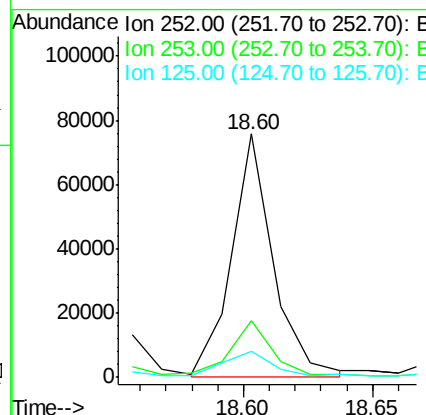
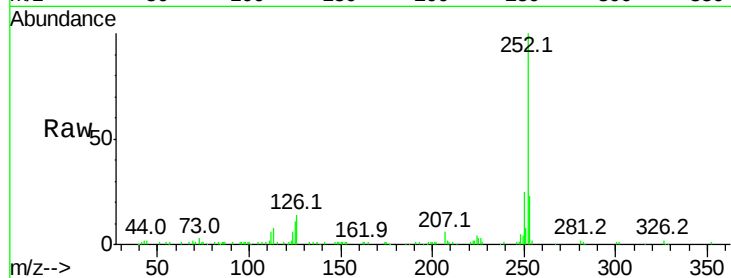
#89
Benzo(a)pyrene
Concen: 6.74 ng/ml
RT: 18.60 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF083586.D
Acq: 8 Dec 2015 7:13

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)DL2

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.4	17.5	26.3
125	10.7	11.0	16.6

Manual Integrations
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12/8/2015 6:15:57 PM



#91
Benzo(g,h,i)perylene
Concen: 3.54 ng/ml
RT: 20.27 min Scan# 1626
Delta R.T. 0.00 min
Lab File: BF083586.D
Acq: 8 Dec 2015 7:13

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	26.2	19.2	28.8
138	23.1	19.5	29.3

