

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083431.D
 Acq On : 2 Dec 2015 21:49
 Operator : UM/IZ
 Sample : G4582-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-01(8-12.5)

Manual Integrations
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 12/3/2015 7:09:48 PM

Quant Time: Dec 03 04:56:41 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.53	152	149145	20.00	ng	-0.01
21) Naphthalene-d8	7.82	136	592081	20.00	ng	-0.01
38) Acenaphthene-d10	9.57	164	305516	20.00	ng	-0.01
63) Phenanthrene-d10	11.13	188	507827	20.00	ng	0.00
75) Chrysene-d12	14.74	240	348338	20.00	ng	-0.02
86) Perylene-d12	16.80	264	354897	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1508858	151.81	ng	0.00
7) Phenol-d6	6.21	99	1902457	139.84	ng	-0.01
23) Nitrobenzene-d5	7.12	82	1374428	102.04	ng	-0.01
41) 2,4,6-Tribromophenol	10.37	330	391870	127.77	ng	-0.01
44) 2-Fluorobiphenyl	8.91	172	1745824	81.43	ng	-0.01
78) Terphenyl-d14	13.21	244	1557905	106.66	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.22	94	46592	2.85	ng	# 69
31) Naphthalene	7.85	128	1013807	31.56	ng	99
37) 2-Methylnaphthalene	8.54	142	380766	17.73	ng	99
45) 1,1'-Biphenyl	9.01	154	1234964	46.10	ng	100
48) Acenaphthylene	9.44	152	507406	15.58	ng	# 94
49) Dimethylphthalate	9.32	163	402206	16.20	ng	97
51) Acenaphthene	9.62	154	2544319	132.83	ng	98
54) Dibenzofuran	9.78	168	276058	9.83	ng	# 89
57) Fluorene	10.13	166	2034665m	91.79	ng	
70) Phenanthrene	11.17	178	8143794m	270.98	ng	
71) Anthracene	11.22	178	2700564	89.26	ng	97
74) Fluoranthene	12.67	202	3964348	127.26	ng	99
77) Pvrene	12.99	202	5394316	221.74	ng	93
80) Benzo(a)anthracene	14.73	228	1819648m	85.27	ng	
82) Chrysene	14.79	228	1452518	70.45	ng	98
85) Indeno(1,2,3-cd)pyrene	18.18	276	600599	39.99	ng	96
87) Benzo(b)fluoranthene	16.29	252	1315327m	57.76	ng	
88) Benzo(k)fluoranthene	16.32	252	266464m	12.39	ng	
89) Benzo(a)pvrene	16.74	252	1428681	73.04	ng	98
90) Dibenzo(a,h)anthracene	18.19	278	163668	9.60	ng	98
91) Benzo(g,h,i)perylene	18.56	276	678475	40.56	ng	99

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

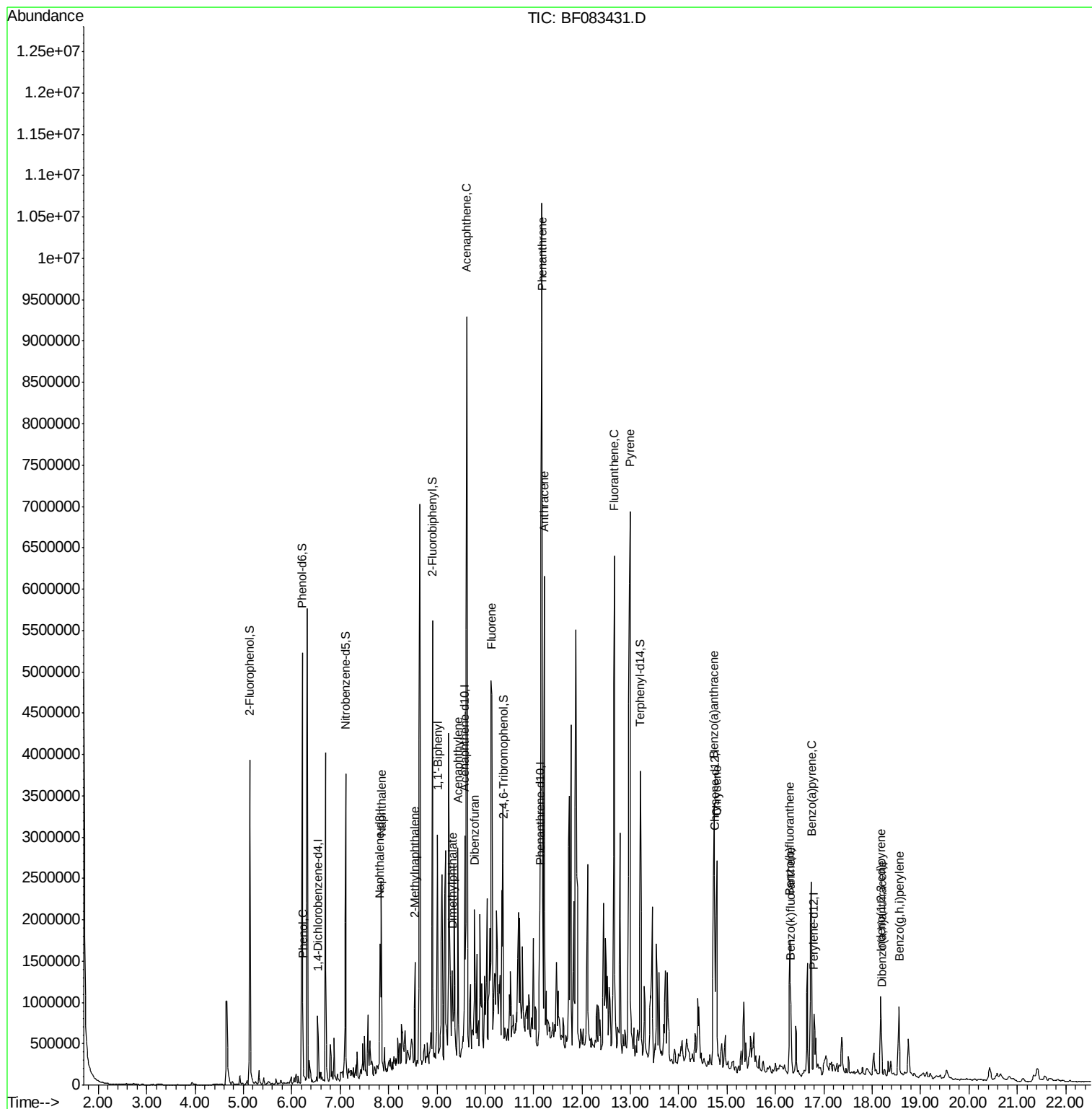
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.53 min Scan# 424

Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

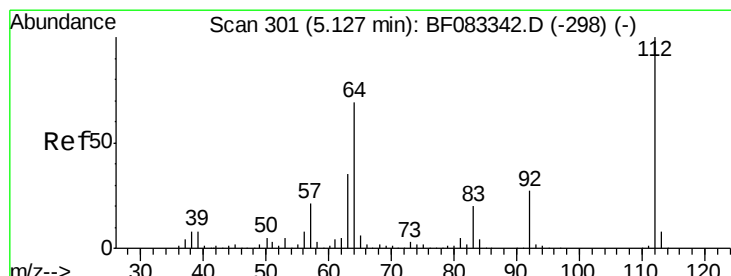
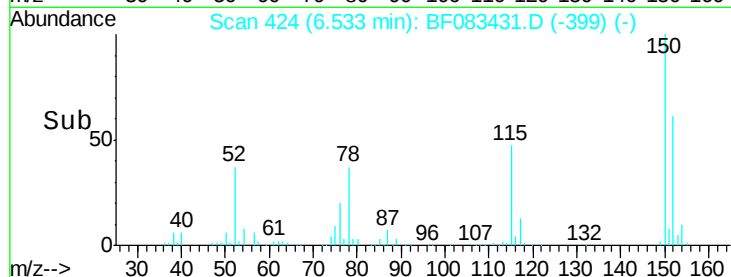
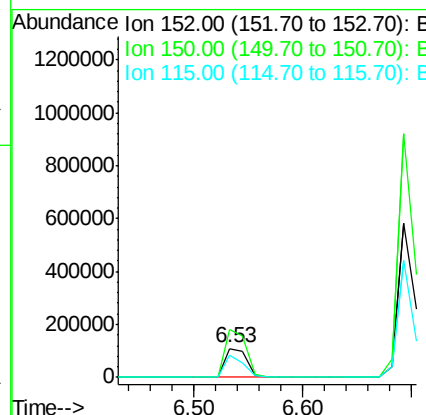
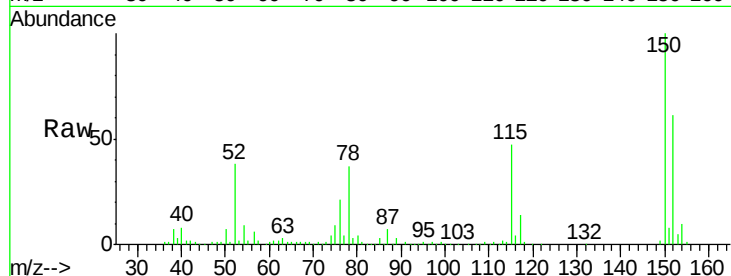
ClientSampleId :

SB-P3WC-01(8-12.5)

Tot Ion:	152	Resp:	149145
Ion Ratio	Lower	Upper	
152	100		
150	162.6	129.8	194.8
115	76.3	59.2	88.8

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#5

2-Fluorophenol

Concen: 151.81 ng

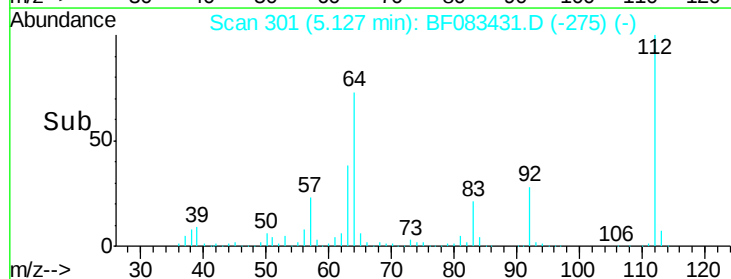
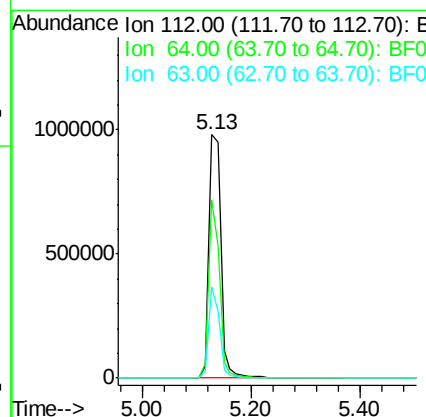
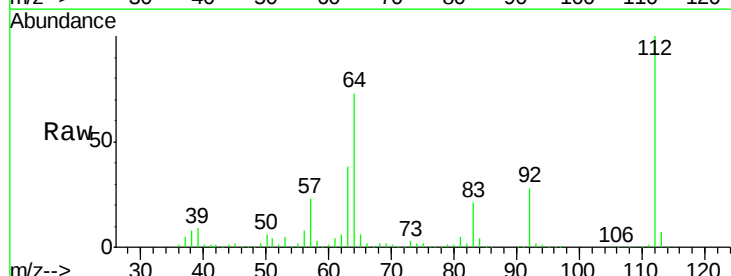
RT: 5.13 min Scan# 301

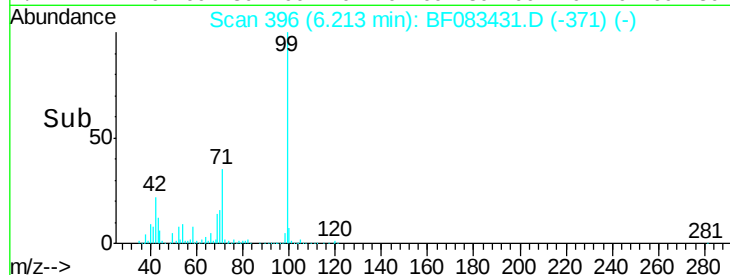
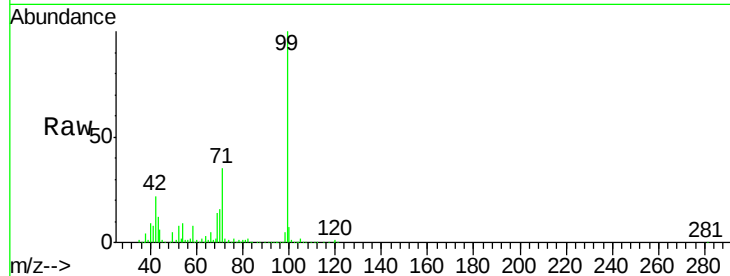
Delta R.T. -0.00 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Tgt Ion:	112	Resp:	1508858
Ion Ratio	Lower	Upper	
112	100		
64	73.1	55.6	83.4
63	37.6	28.2	42.2





#7

Phenol-d6

Concen: 139.84 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Tot Ion: 99 Resp: 1902457

Ion Ratio Lower Upper

99 100

42 22.4 14.9 22.3#

71 35.4 24.7 37.1

Instrument :

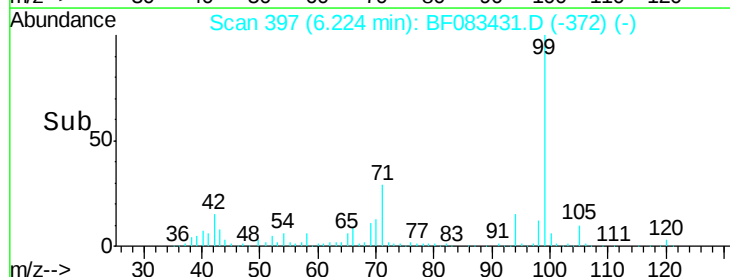
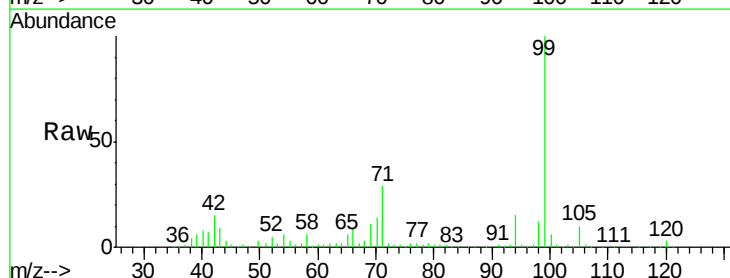
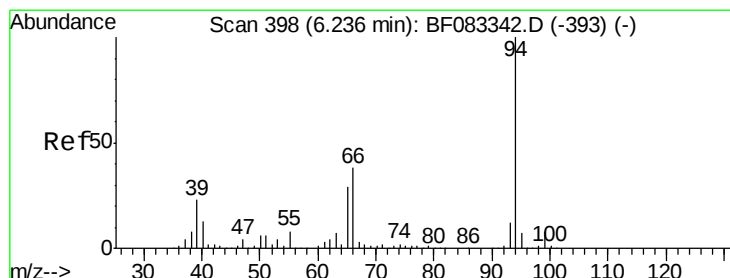
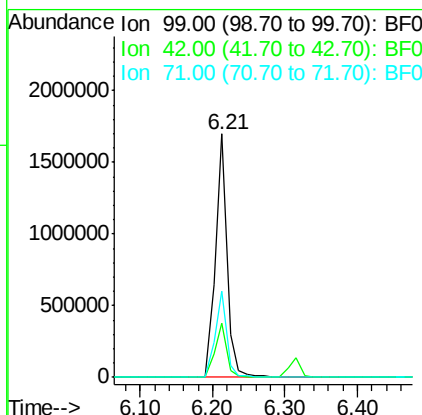
BNA_F

ClientSampleId :

SB-P3WC-01(8-12.5)

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#10

Phenol

Concen: 2.85 ng

RT: 6.22 min Scan# 397

Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

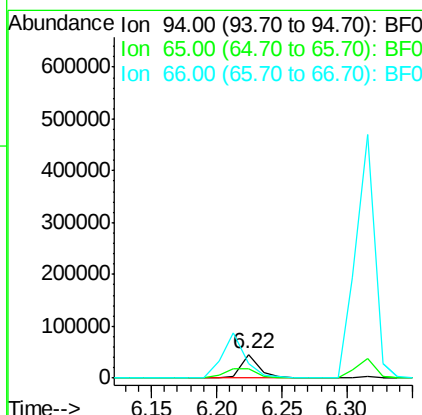
Tgt Ion: 94 Resp: 46592

Ion Ratio Lower Upper

94 100

65 40.9 9.5 49.5

66 60.8 17.9 57.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.82 min Scan# 537

Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

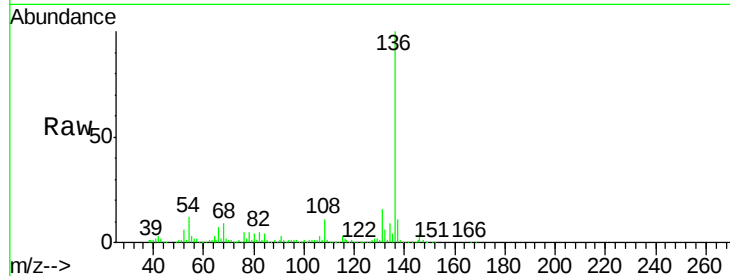
ClientSampleId :

SB-P3WC-01(8-12.5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		592081		
137	11.1	9.0	13.4		
54	12.3	10.1	15.1		
68	8.5	7.1	10.7		

Manual Integrations
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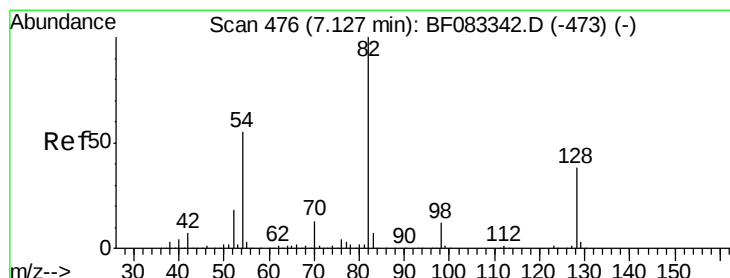
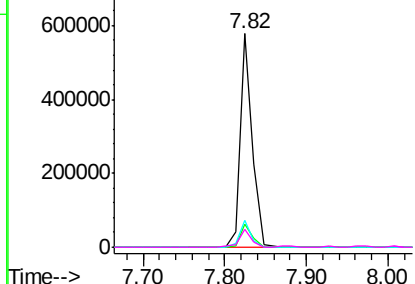
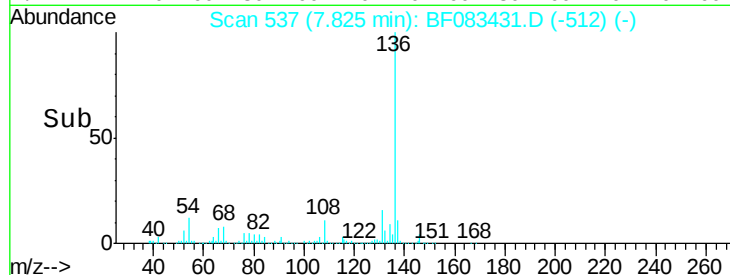


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 102.04 ng

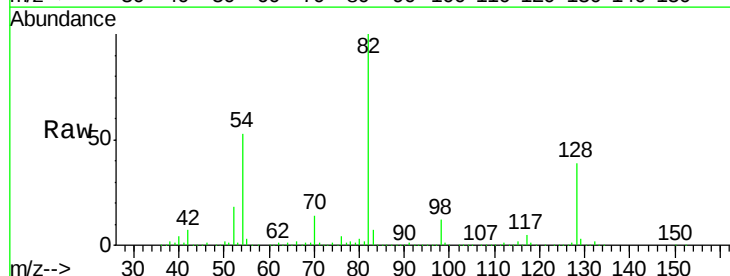
RT: 7.12 min Scan# 475

Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

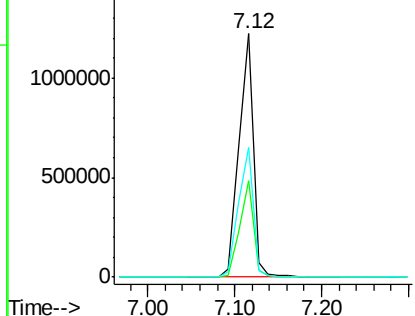
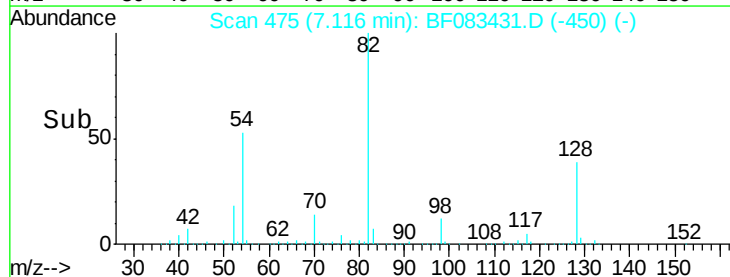
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		1374428		
128	39.4	30.6	46.0		
54	53.2	43.8	65.6		

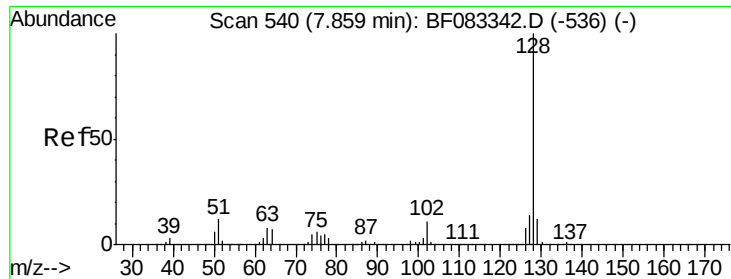


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 31.56 ng

RT: 7.85 min Scan# 539

Delta R.T. -0.01 min

Lab File: BF083431.D

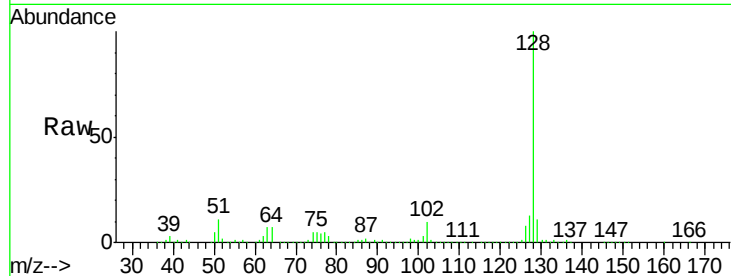
Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

ClientSampleId :

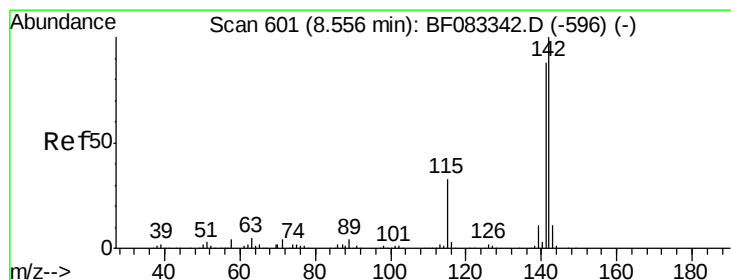
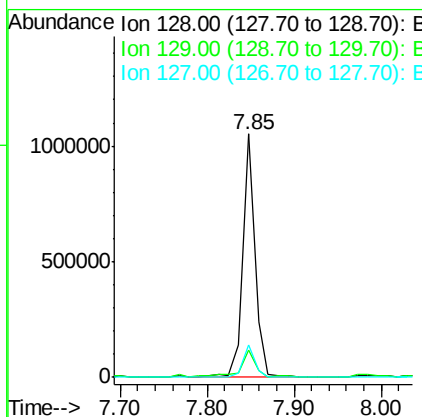
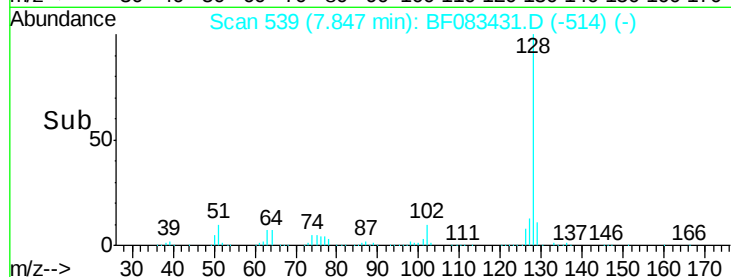
SB-P3WC-01(8-12.5)



Tot Ion:	128	Resp:	1013807
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.7	14.5
127	13.3	11.0	16.4

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#37

2-Methylnaphthalene

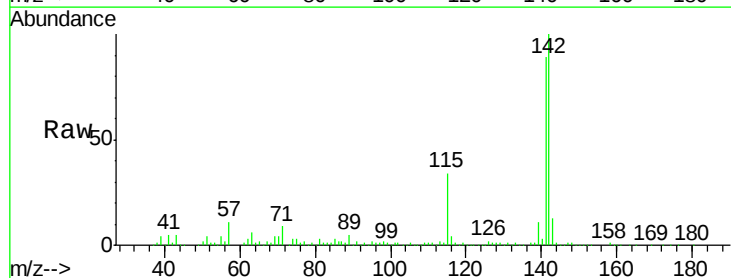
Concen: 17.73 ng

RT: 8.54 min Scan# 600

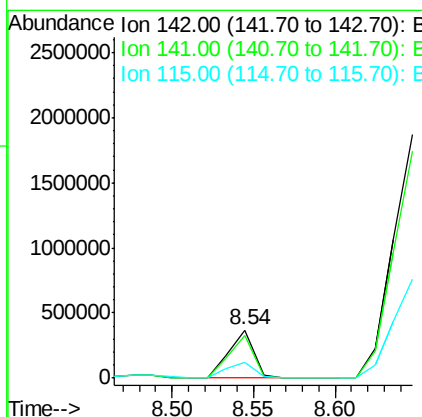
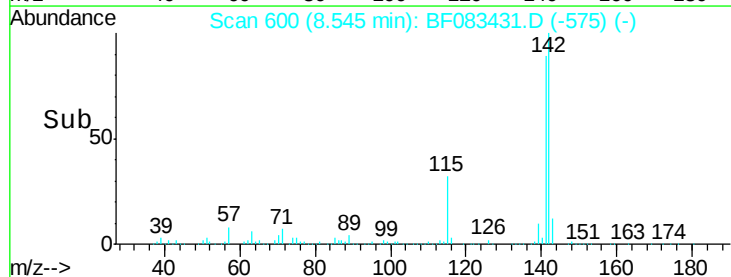
Delta R.T. -0.01 min

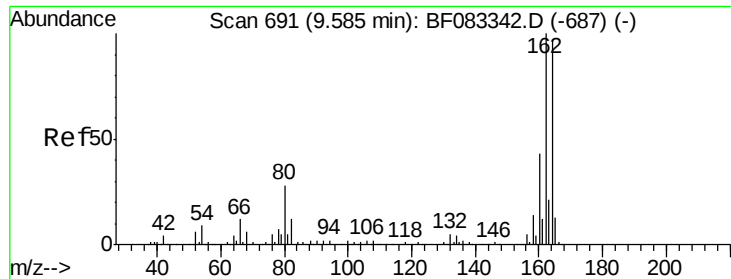
Lab File: BF083431.D

Acq: 2 Dec 2015 21:49



Tgt Ion:	142	Resp:	380766
Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.6	105.8
115	33.9	26.2	39.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.57 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

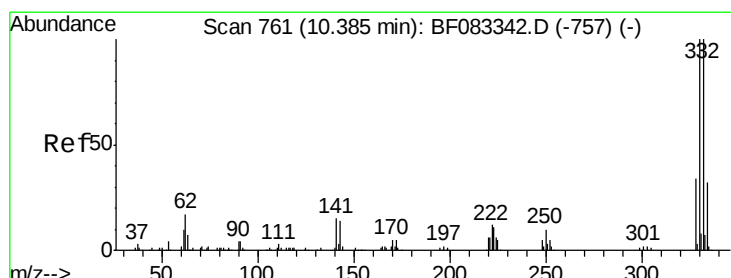
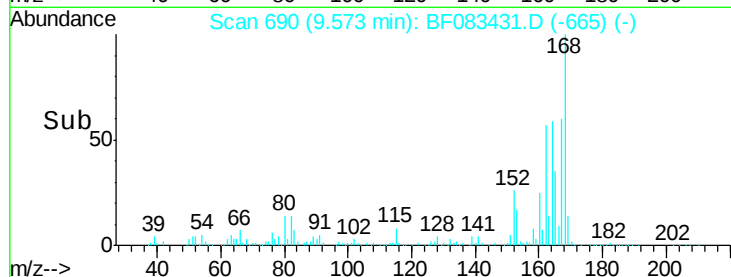
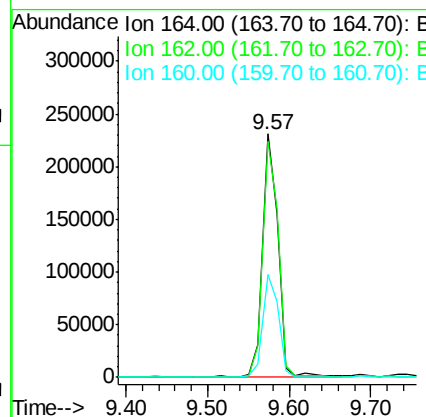
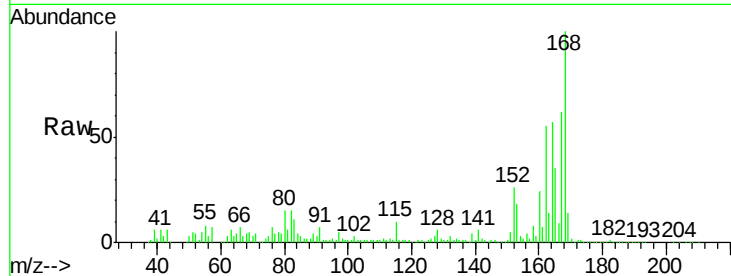
ClientSampleId :

SB-P3WC-01(8-12.5)

Tot Ion:	164	Resp:	305516
Ion Ratio	Lower	Upper	
164	100		
162	96.8	82.6	123.8
160	42.2	35.3	52.9

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#41

2,4,6-Tribromophenol

Concen: 127.77 ng

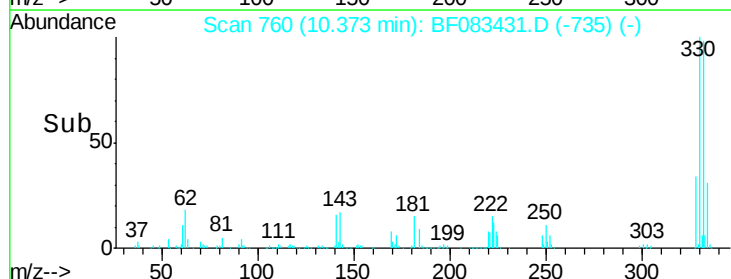
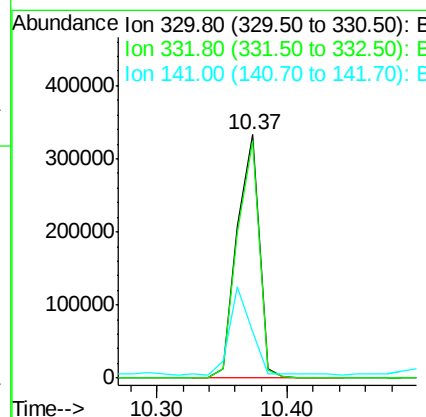
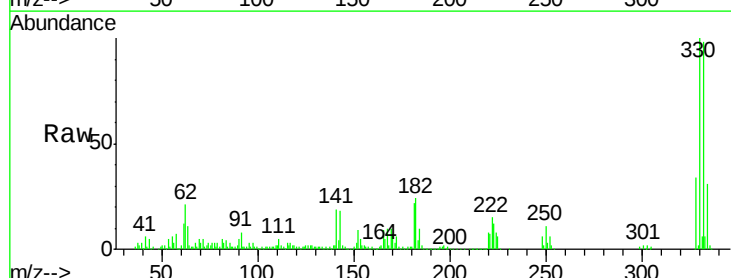
RT: 10.37 min Scan# 760

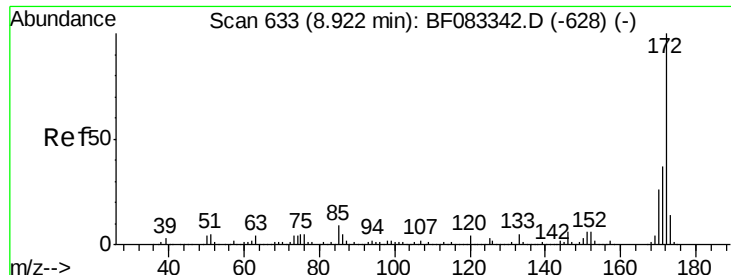
Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Tgt Ion:	330	Resp:	391870
Ion Ratio	Lower	Upper	
330	100		
332	97.1	77.8	116.6
141	36.6	29.4	44.0





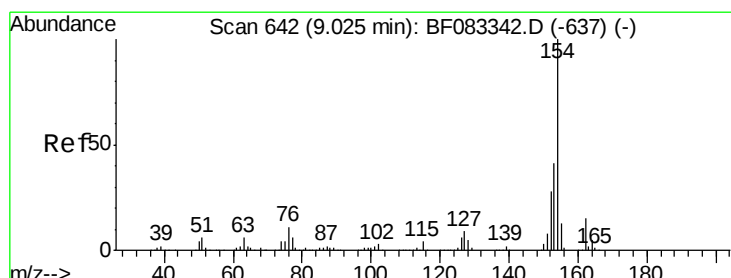
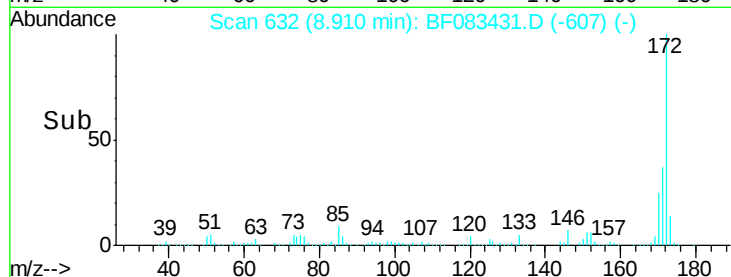
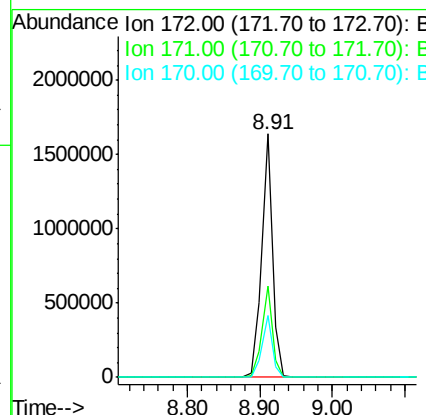
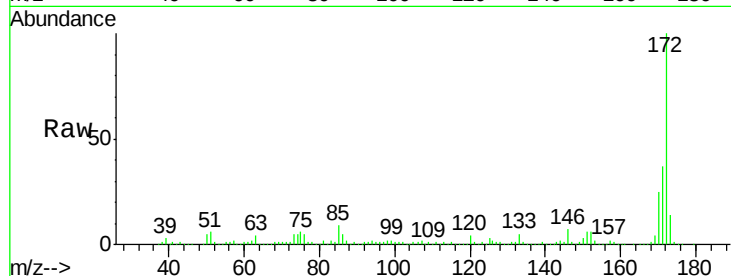
#44
2-Fluorobiphenyl
Concen: 81.43 ng
RT: 8.91 min Scan# 632
Delta R.T. -0.01 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

Tot Ion:172 Resp: 1745824
Ion Ratio Lower Upper
172 100
171 37.3 29.4 44.0
170 25.4 20.4 30.6

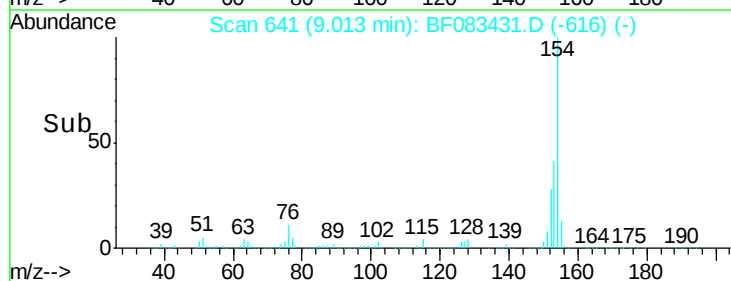
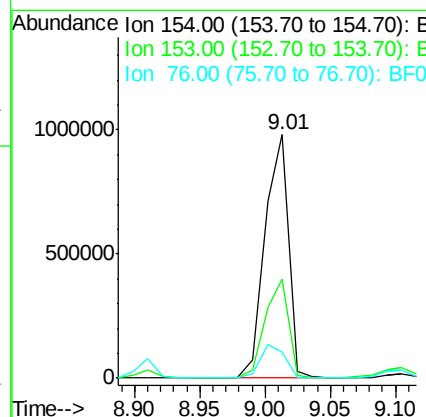
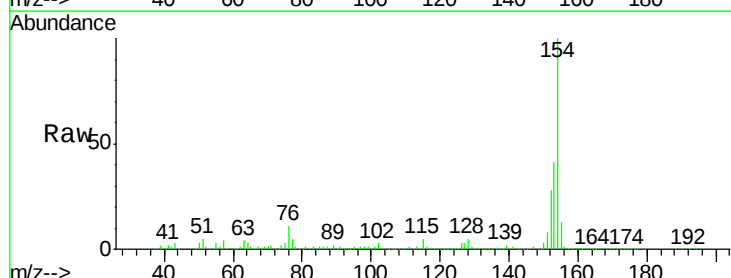
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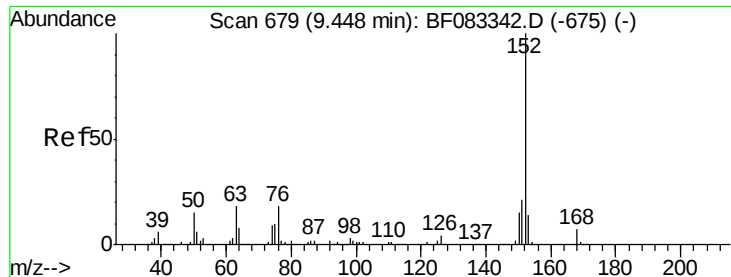
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#45
1,1'-Biphenyl
Concen: 46.10 ng
RT: 9.01 min Scan# 641
Delta R.T. -0.01 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Tgt Ion:154 Resp: 1234964
Ion Ratio Lower Upper
154 100
153 40.6 20.6 60.6
76 10.7 0.0 30.5





#48

Acenaphthylene

Concen: 15.58 ng

RT: 9.44 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

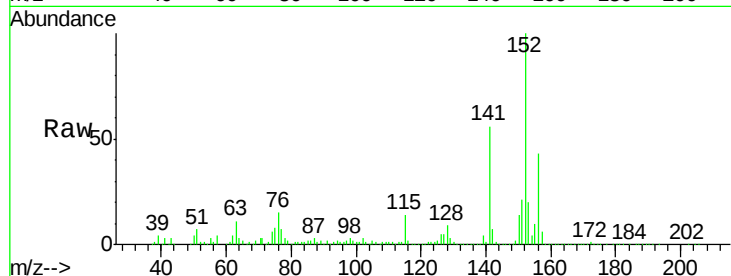
ClientSampleId :

SB-P3WC-01(8-12.5)

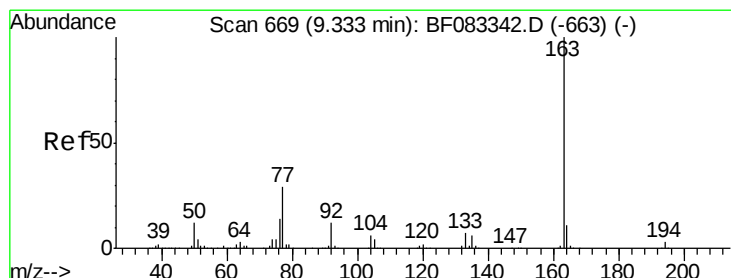
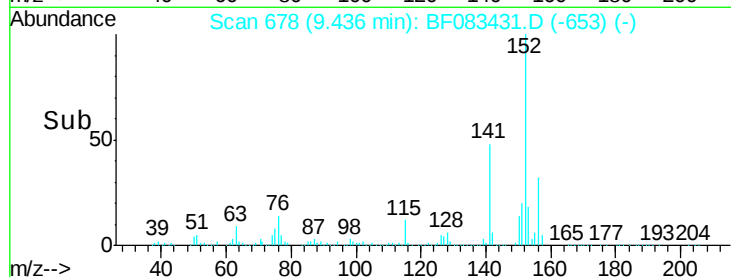
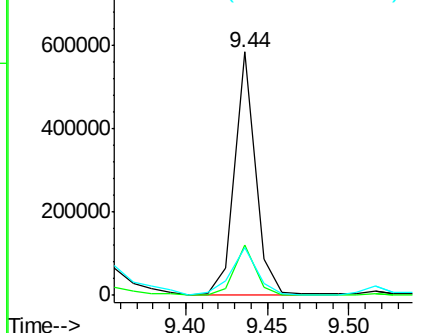
Tot Ion:	152	Resp:	507406
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.7	25.1
153	19.8	11.2	16.8

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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



#49

Dimethylphthalate

Concen: 16.20 ng

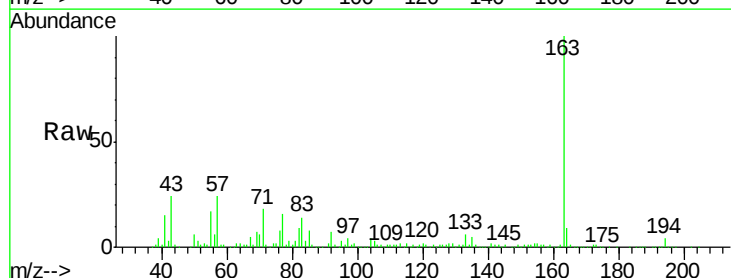
RT: 9.32 min Scan# 668

Delta R.T. -0.01 min

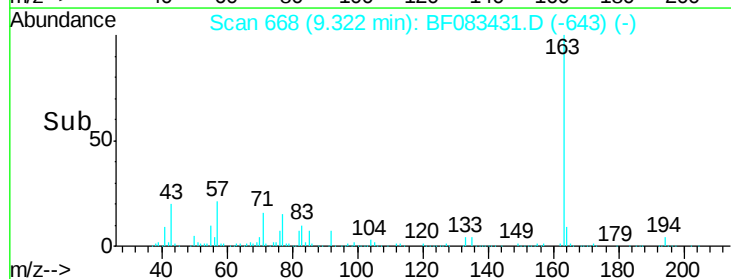
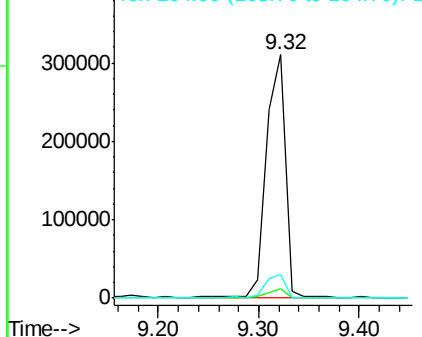
Lab File: BF083431.D

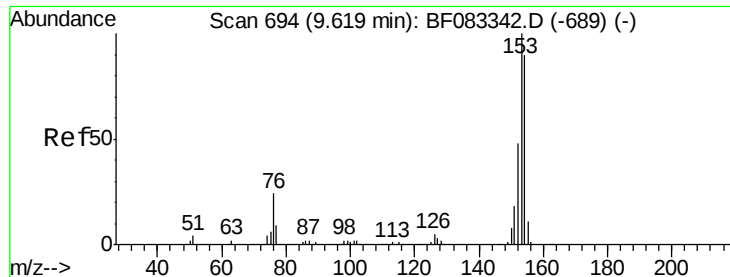
Acq: 2 Dec 2015 21:49

Tgt Ion:	163	Resp:	402206
Ion Ratio	Lower	Upper	
163	100		
194	3.9	2.7	4.1
164	9.5	8.8	13.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 132.83 ng

RT: 9.62 min Scan# 694

Delta R.T. -0.00 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-01(8-12.5)

Tot Ion:154 Resp: 2544319

Ion Ratio Lower Upper

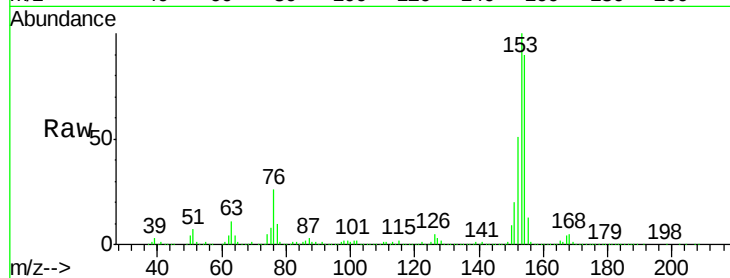
154 100

153 110.6 89.3 133.9

152 56.8 42.5 63.7

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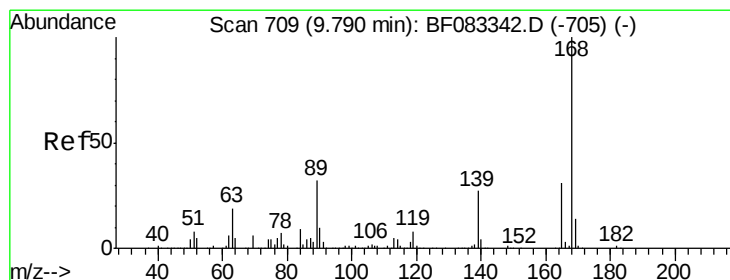
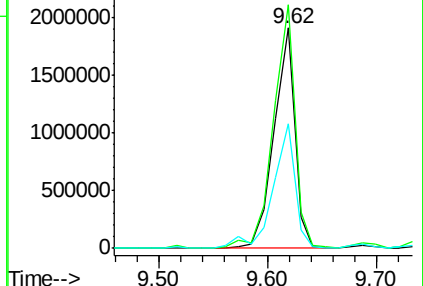
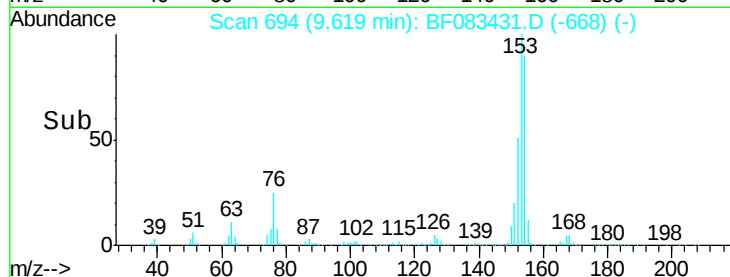
Mmdadoda
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 9.83 ng

RT: 9.78 min Scan# 708

Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

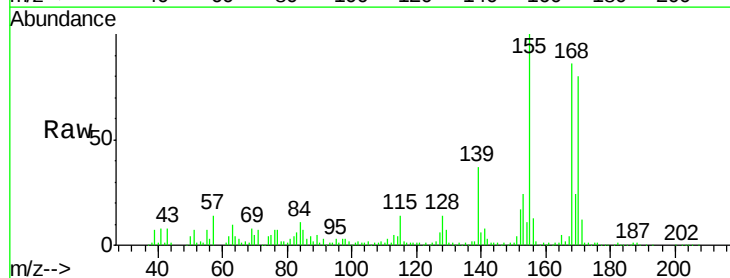
Tgt Ion:168 Resp: 276058

Ion Ratio Lower Upper

168 100

139 43.1 32.7 49.1

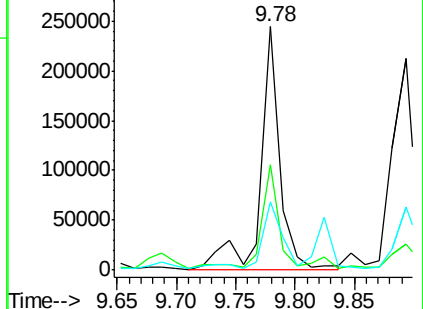
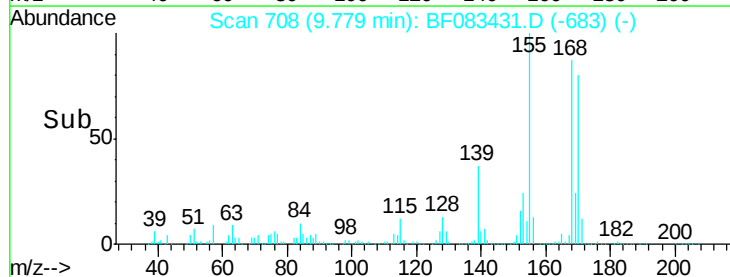
169 28.0 11.1 16.7#

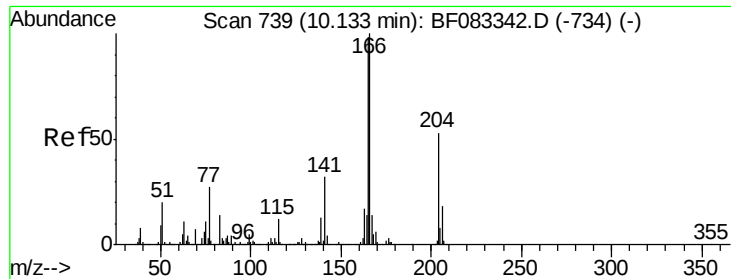


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





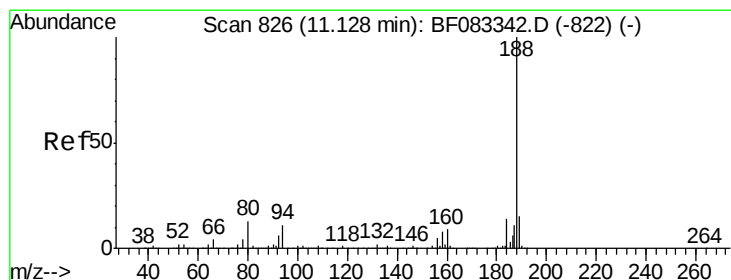
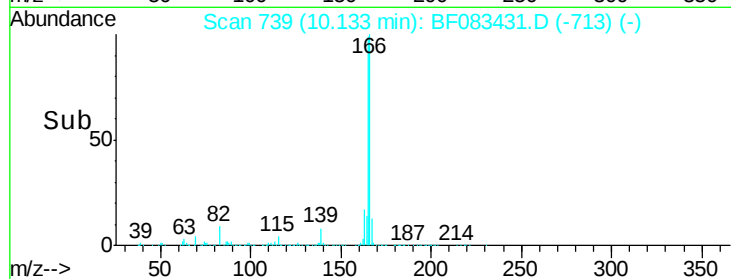
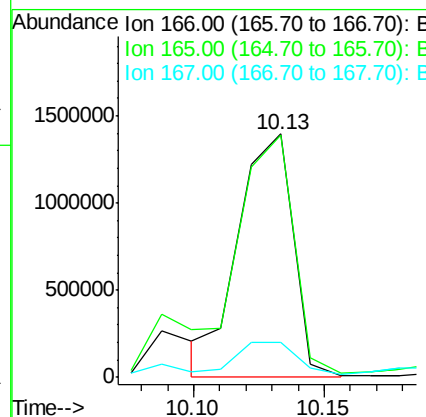
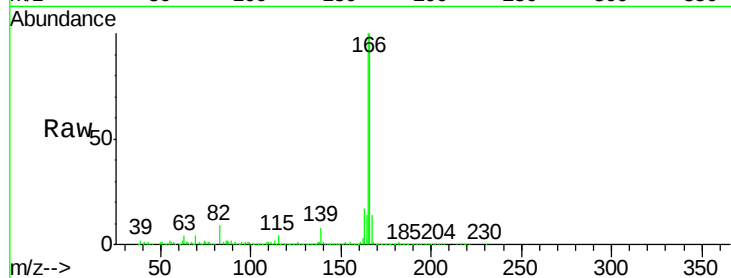
#57
Fluorene
Concen: 91.79 ng/ml
RT: 10.13 min Scan# 739
Delta R.T. -0.00 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.7	78.3	117.5
167	14.3	11.1	16.7

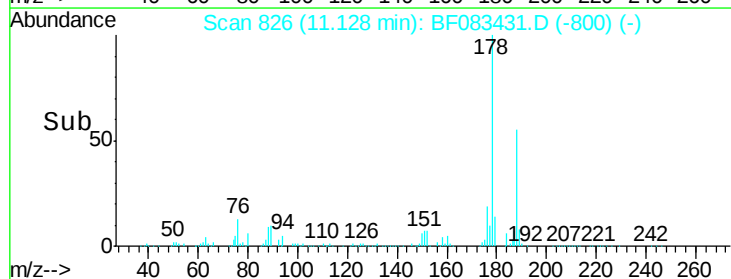
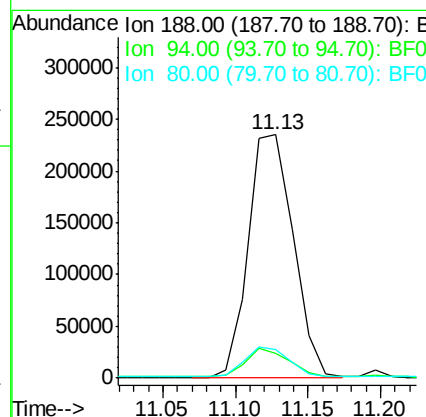
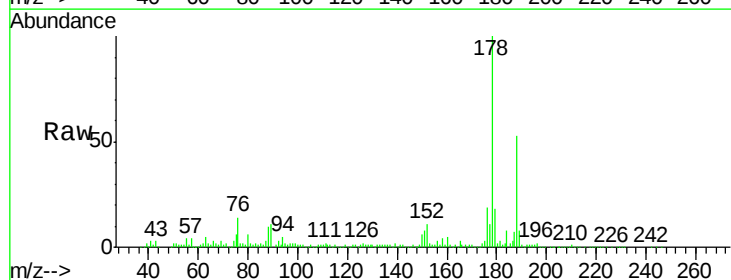
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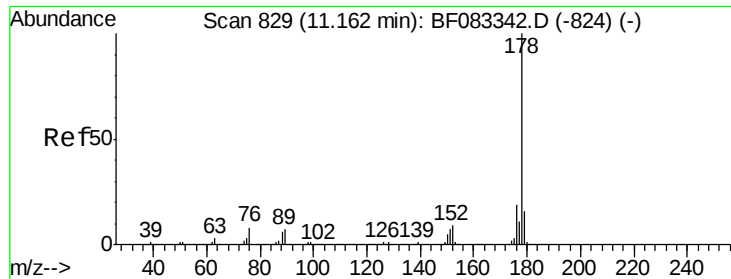
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 826
Delta R.T. -0.00 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.7	13.1
80	11.9	10.3	15.5





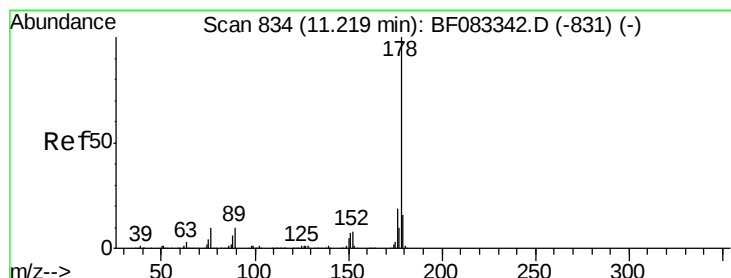
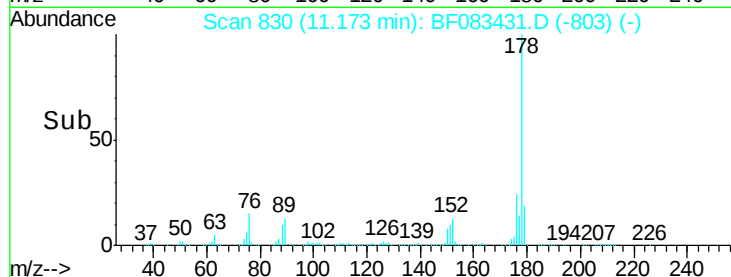
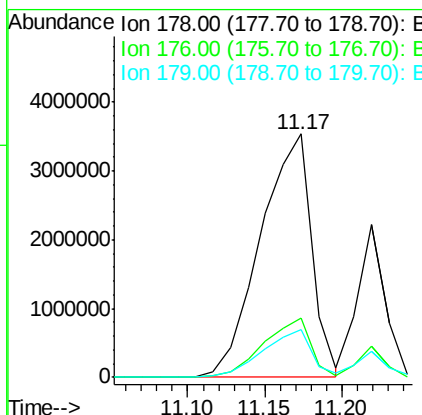
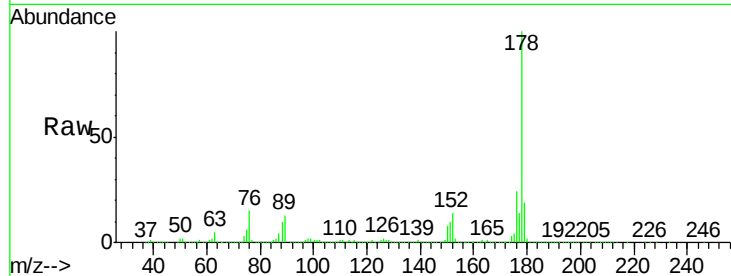
#70
Phenanthrene
Concen: 270.98 ng m
RT: 11.17 min Scan# 830
Delta R.T. 0.01 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

Tot Ion:178 Resp: 8143794
Ion Ratio Lower Upper
178 100
176 24.3 15.3 22.9#
179 19.4 12.4 18.6#

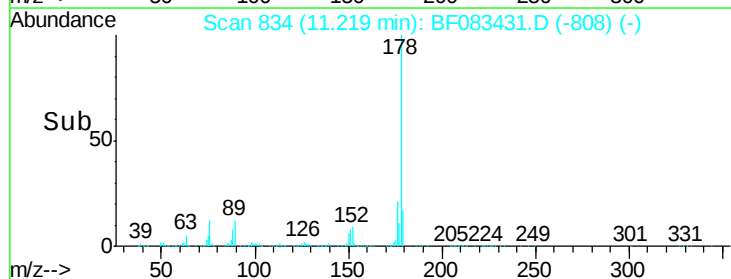
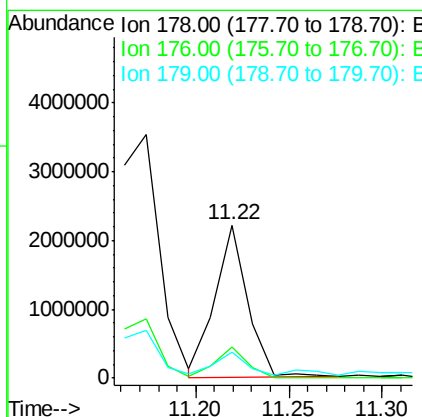
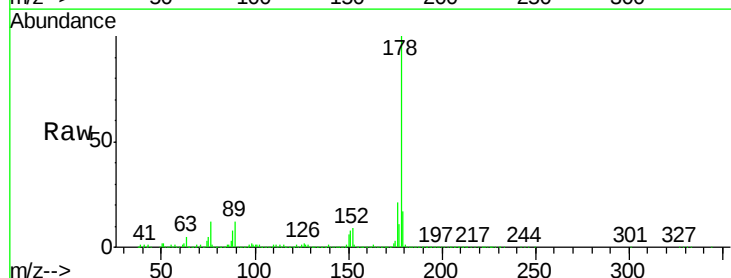
Manual Integrations
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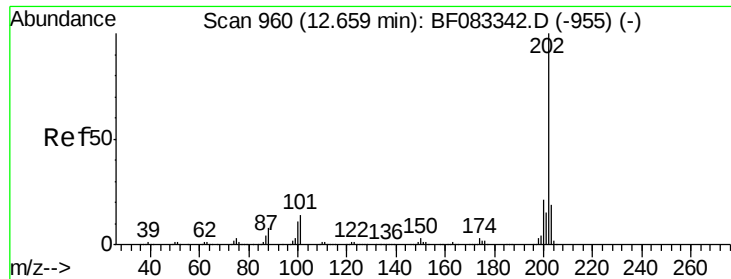
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#71
Anthracene
Concen: 89.26 ng
RT: 11.22 min Scan# 834
Delta R.T. -0.00 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Tgt Ion:178 Resp: 2700564
Ion Ratio Lower Upper
178 100
176 20.7 15.6 23.4
179 17.2 12.8 19.2





#74

Fluoranthene

Concen: 127.26 ng

RT: 12.67 min Scan# 961

Delta R.T. 0.01 min

Lab File: BF083431.D

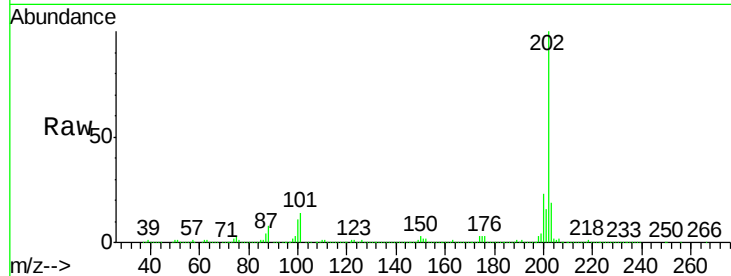
Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

ClientSampleId :

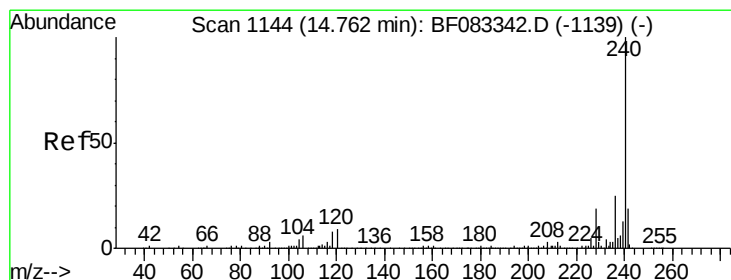
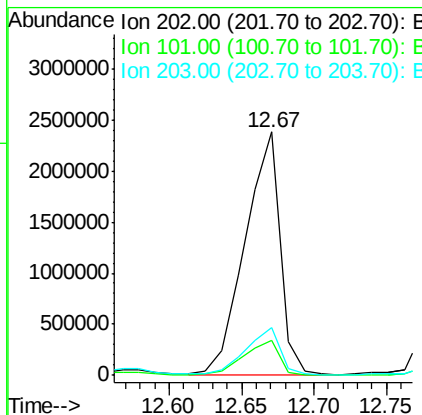
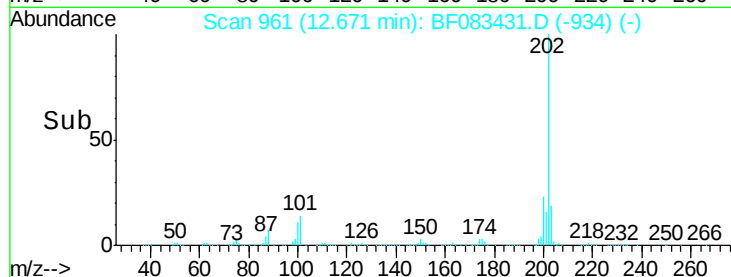
SB-P3WC-01(8-12.5)



Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	14.3	0.0	34.5		
203	19.5	0.0	38.7		

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

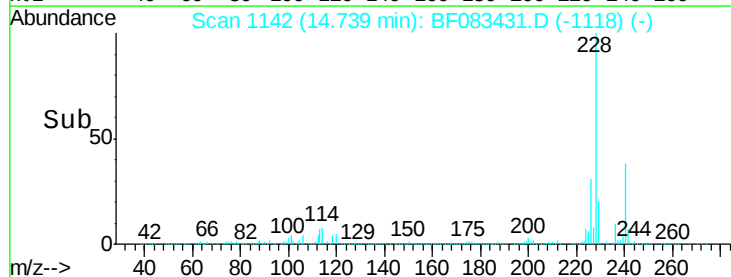
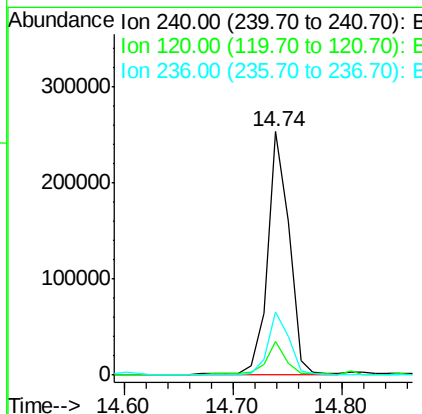
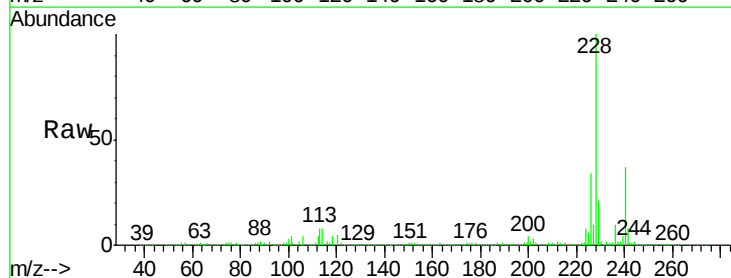
RT: 14.74 min Scan# 1142

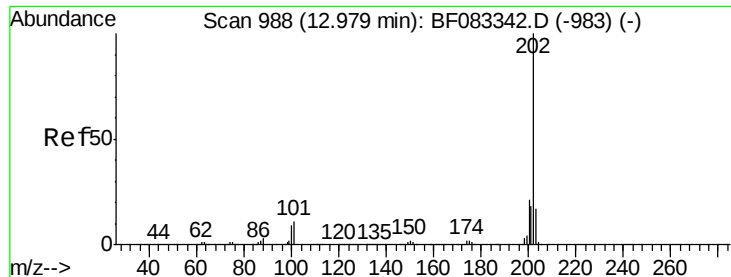
Delta R.T. -0.02 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	13.6	6.9	10.3#		
236	26.2	19.8	29.6		





#77

Pvrene

Concen: 221.74 ng

RT: 12.99 min Scan# 989

Delta R.T. 0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

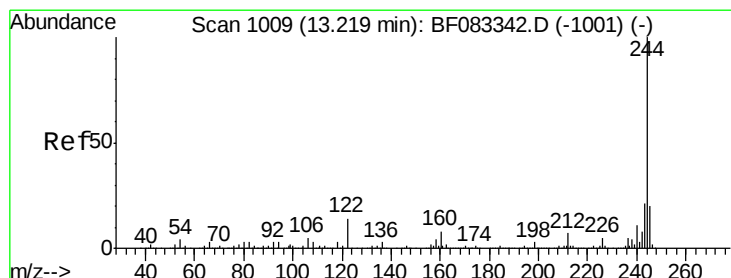
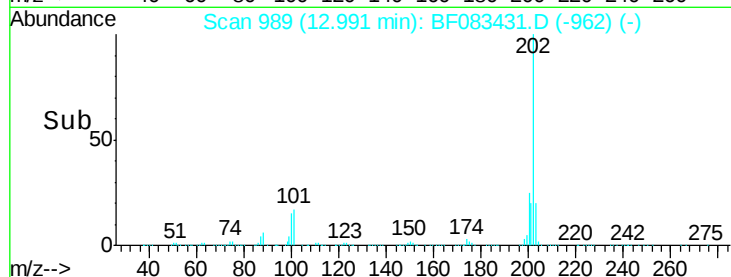
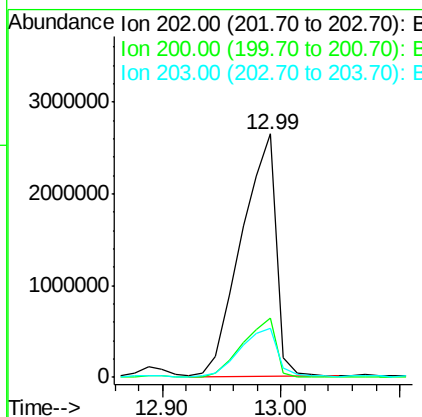
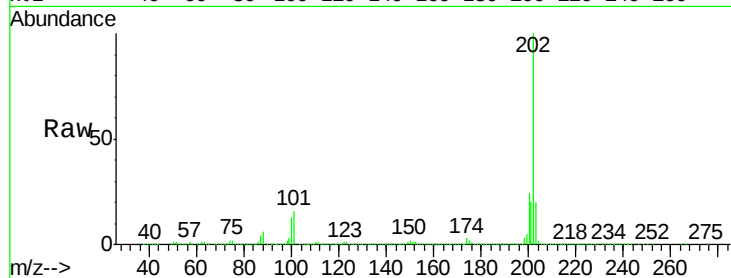
ClientSampleId :

SB-P3WC-01(8-12.5)

Tot Ion:	202	Resp:	5394316
Ion Ratio	Lower	Upper	
202	100		
200	24.3	16.9	25.3
203	20.2	13.9	20.9

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#78

Terphenyl-d14

Concen: 106.66 ng

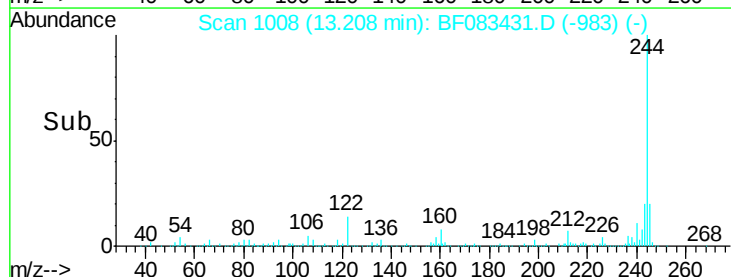
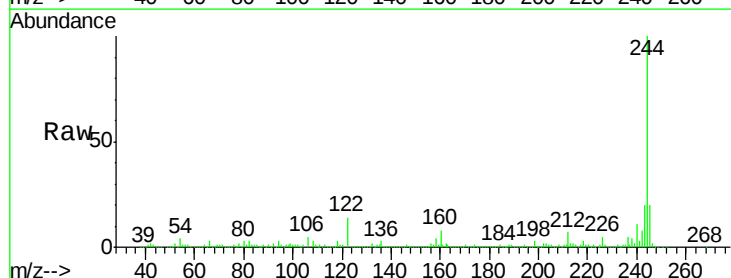
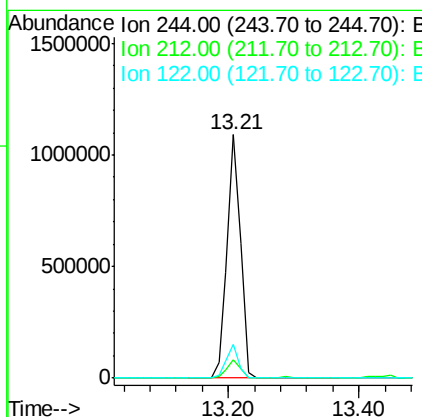
RT: 13.21 min Scan# 1008

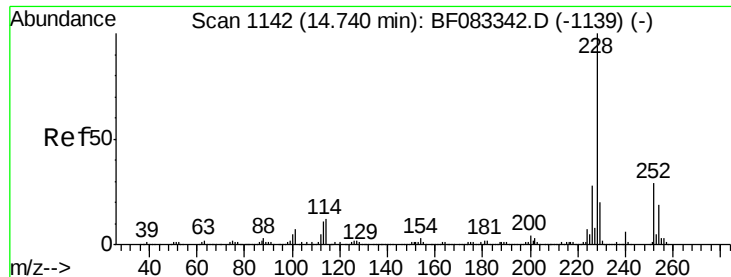
Delta R.T. -0.01 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Tgt Ion:	244	Resp:	1557905
Ion Ratio	Lower	Upper	
244	100		
212	7.4	5.8	8.8
122	13.6	11.0	16.4





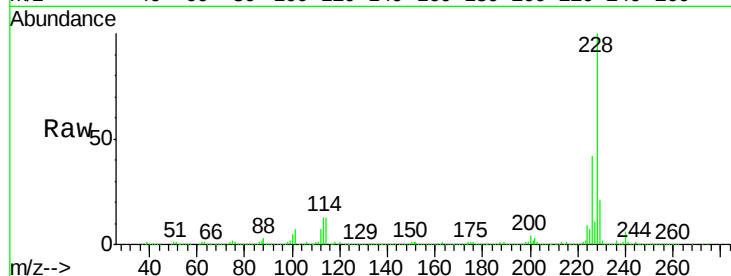
#80
Benzo(a)anthracene
Concen: 85.27 ng m
RT: 14.73 min Scan# 1141
Delta R.T. -0.01 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

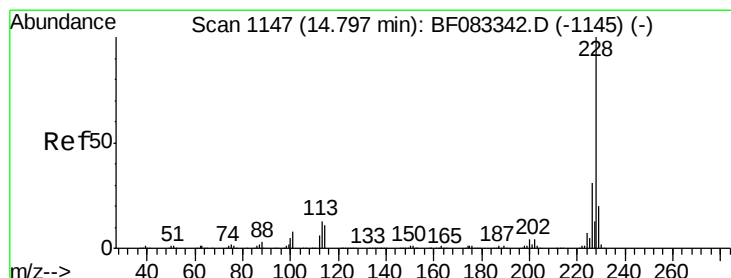
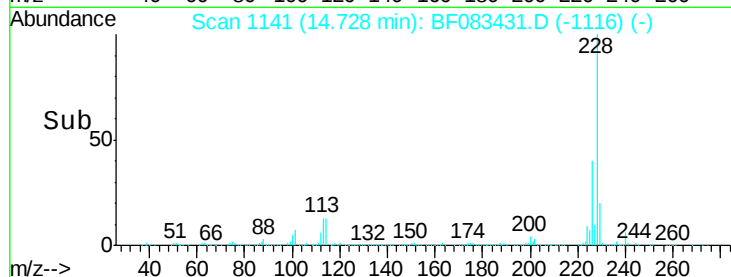
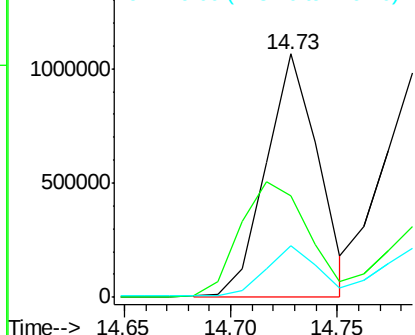
Tot Ion: 228 Resp: 1819648
Ion Ratio Lower Upper
228 100
226 41.6 22.2 33.4#
229 21.1 16.1 24.1

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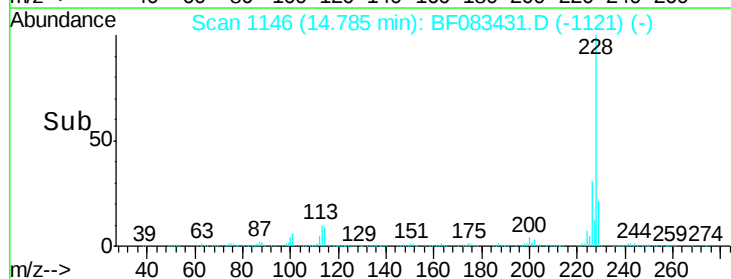
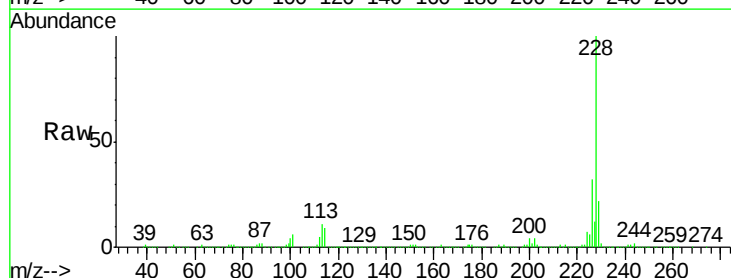
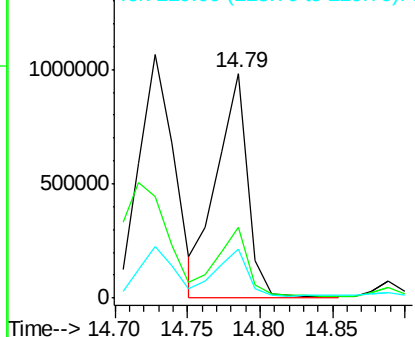
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

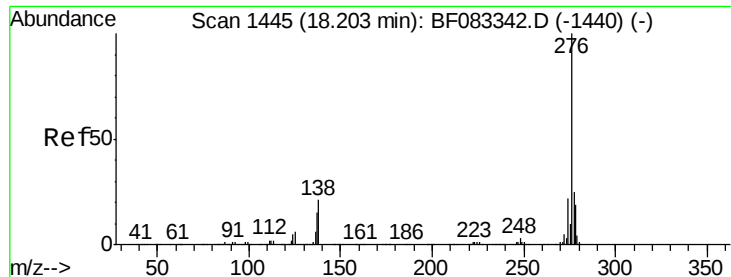


#82
Chrysene
Concen: 70.45 ng
RT: 14.79 min Scan# 1146
Delta R.T. -0.01 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Tgt Ion: 228 Resp: 1452518
Ion Ratio Lower Upper
228 100
226 31.6 24.6 37.0
229 21.7 16.2 24.2

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





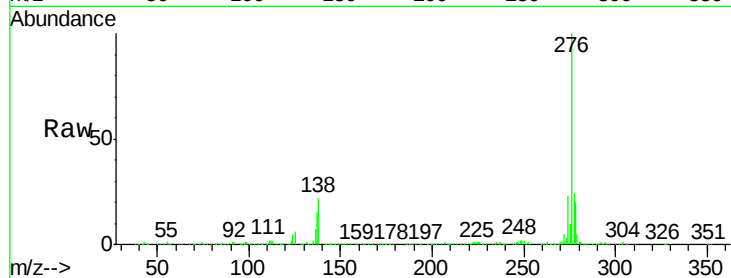
#85
Indeno(1,2,3-cd)pyrene
Concen: 39.99 ng
RT: 18.18 min Scan# 1443
Delta R.T. -0.02 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

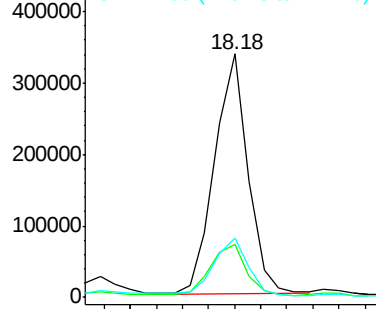
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.8	21.2	31.8
277	25.5	20.0	30.0

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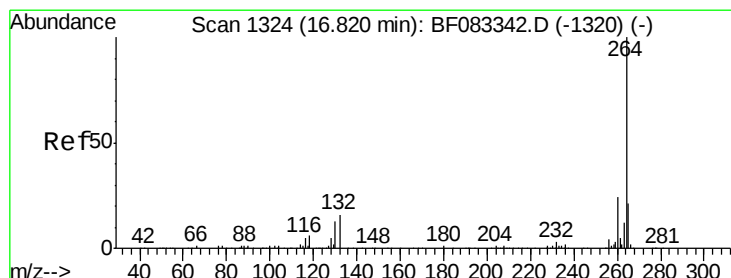
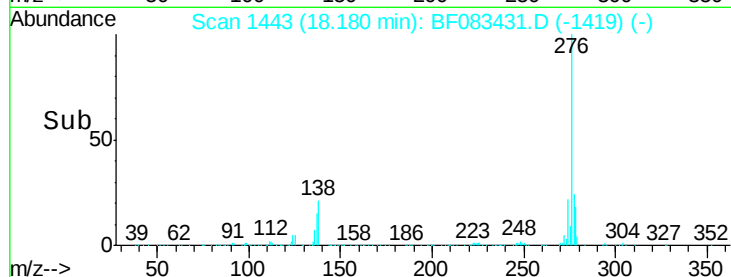
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Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

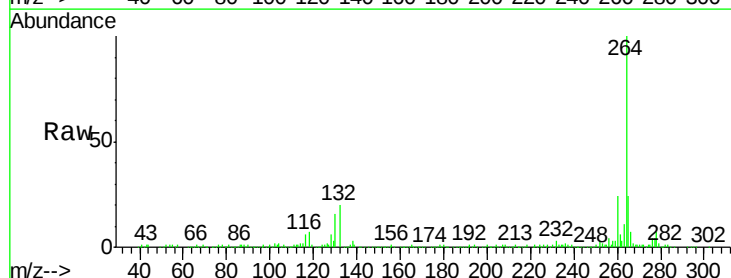


Time-->

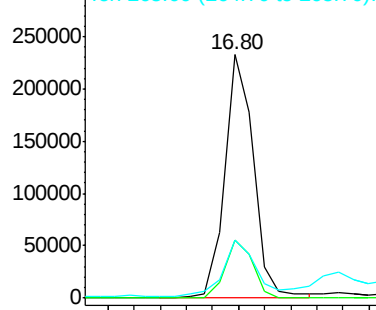


#86
Perylene-d12
Concen: 20.00 ng
RT: 16.80 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

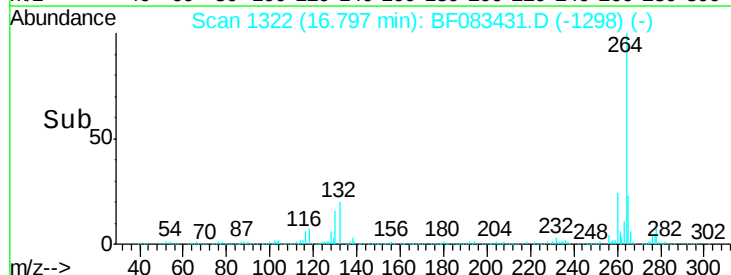
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.4
265	23.6	16.8	25.2

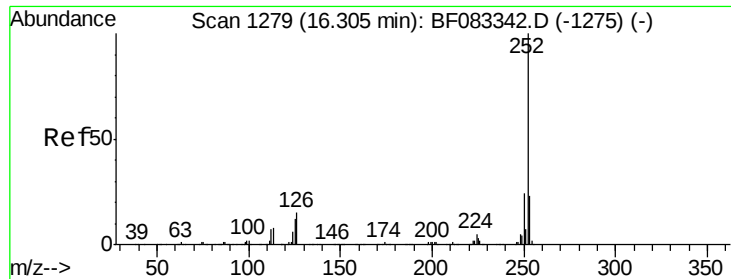


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time-->





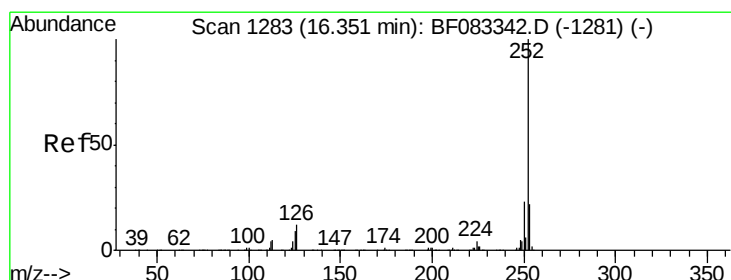
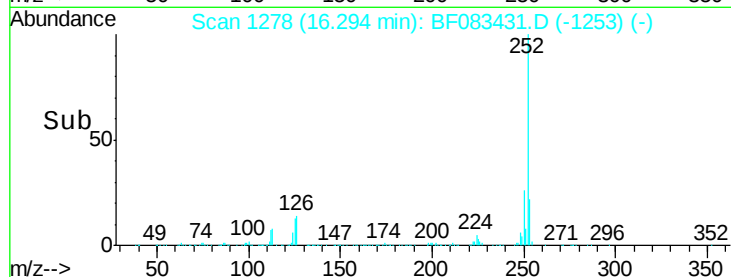
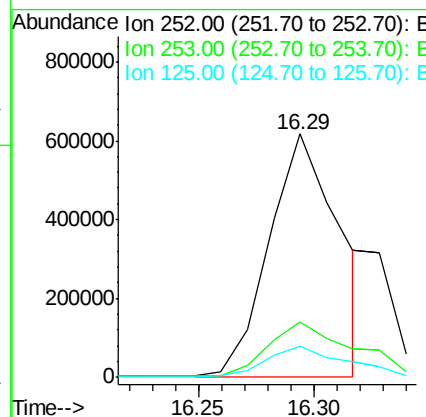
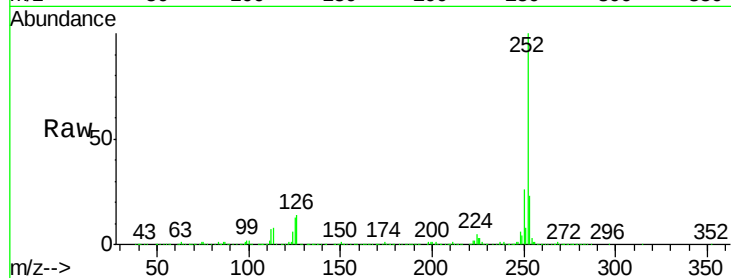
#87
Benzo(b)fluoranthene
Concen: 57.76 ng m
RT: 16.29 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.4	27.6
125	12.7	9.6	14.4

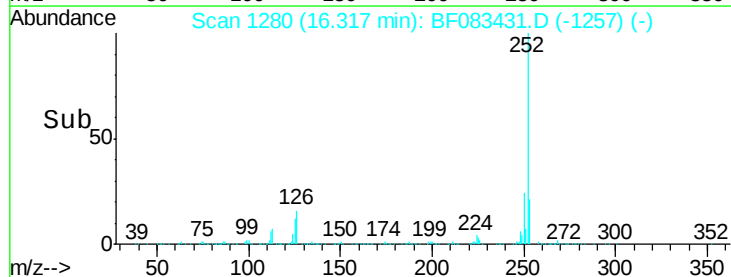
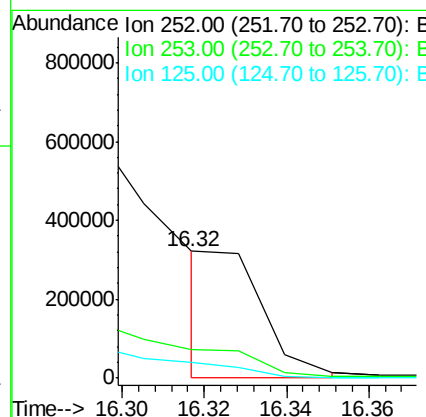
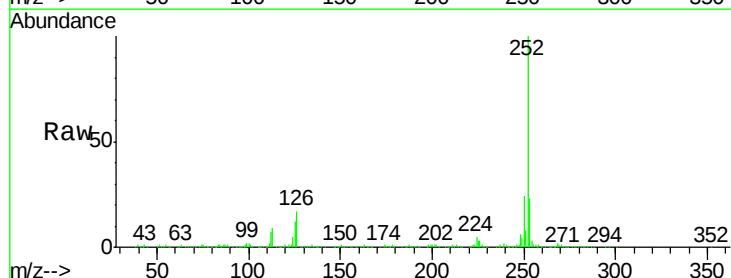
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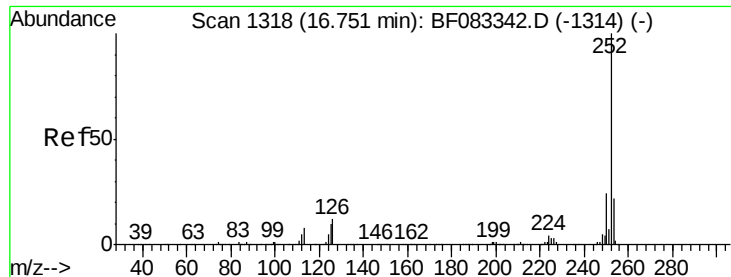
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#88
Benzo(k)fluoranthene
Concen: 12.39 ng m
RT: 16.32 min Scan# 1280
Delta R.T. -0.03 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.4	26.0
125	12.0	7.5	11.3





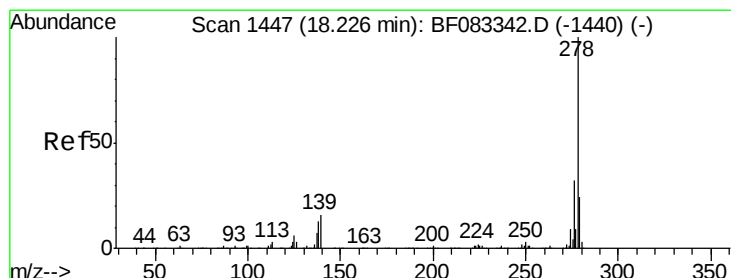
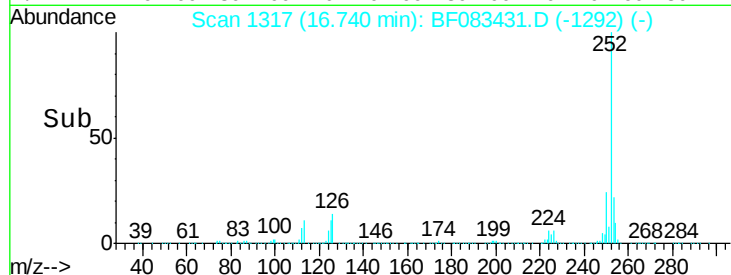
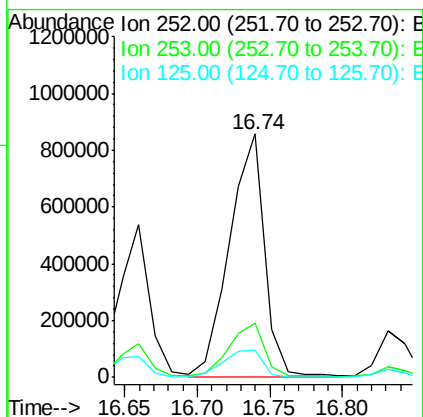
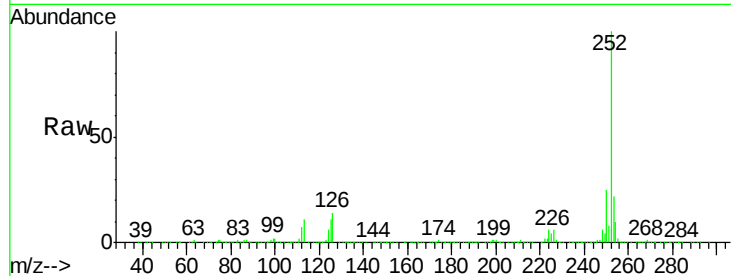
#89
Benzo(a)pyrene
Concen: 73.04 ng
RT: 16.74 min Scan# 1317
Delta R.T. -0.01 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	11.2	7.8	11.8

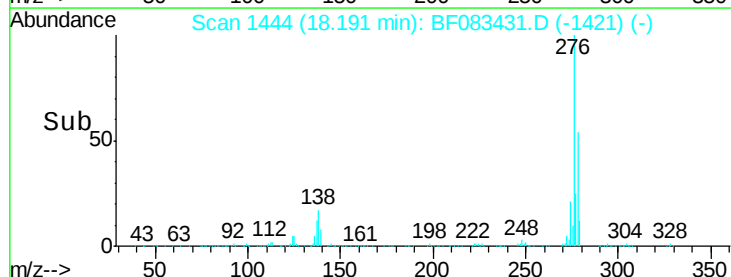
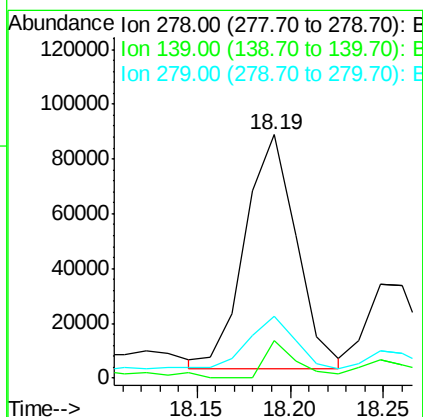
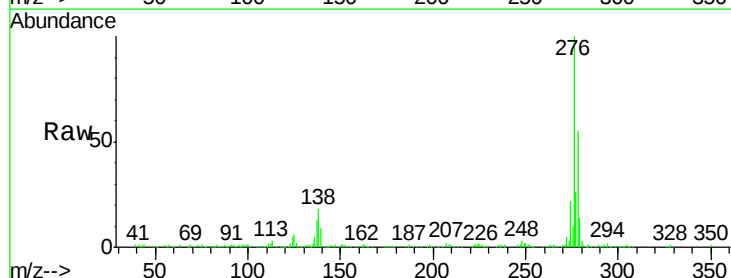
Manual Integrations
APPROVED

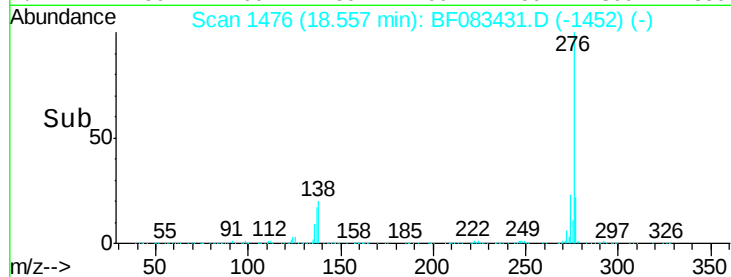
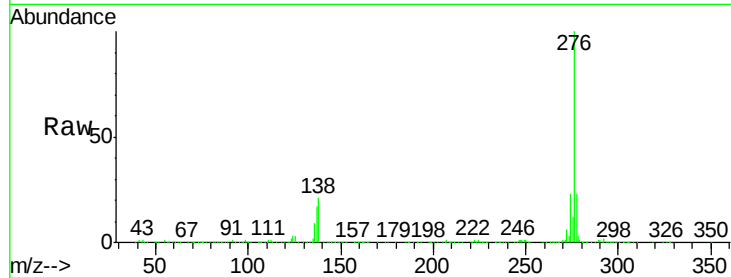
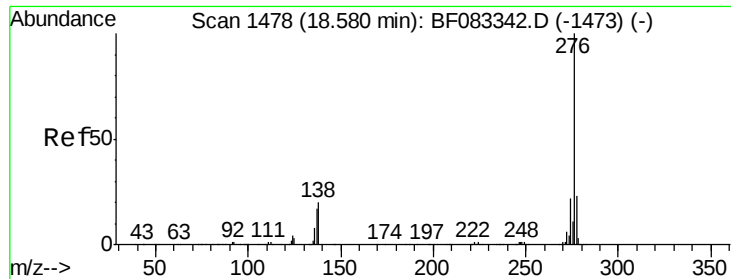
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#90
Dibenzo(a,h)anthracene
Concen: 9.60 ng
RT: 18.19 min Scan# 1444
Delta R.T. -0.03 min
Lab File: BF083431.D
Acq: 2 Dec 2015 21:49

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.1	19.7
279	25.3	19.2	28.8





#91

Benzo(a,h,i)perylene

Concen: 40.56 ng

RT: 18.56 min Scan# 1476

Delta R.T. -0.02 min

Lab File: BF083431.D

Acq: 2 Dec 2015 21:49

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-01(8-12.5)

Tot Ion:	276	Resp:	678475
Ion Ratio	Lower	Upper	
276	100		
277	22.7	18.6	28.0
138	20.7	16.1	24.1

Manual Integrations
APPROVED

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