

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051016\
 Data File : BF086878.D
 Acq On : 11 May 2016 3:45
 Operator : UM/SJ
 Sample : H2762-04DL 10X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B3COMPDL

Manual Integrations
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Quant Time: May 11 14:59:27 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 16:04:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	177639	20.00	ng	-0.01
21) Naphthalene-d8	7.98	136	570525	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	287146	20.00	ng	-0.01
63) Phenanthrene-d10	11.20	188	433276	20.00	ng	-0.01
75) Chrysene-d12	13.82	240	356216	20.00	ng	-0.01
86) Perylene-d12	15.20	264	324249	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.28	112	115786	11.04	ng	-0.01
7) Phenol-d6	6.35	99	141952	10.13	ng	-0.01
23) Nitrobenzene-d5	7.25	82	101315	8.92	ng	-0.01
41) 2,4,6-Tribromophenol	10.51	330	21325	7.01	ng	-0.01
44) 2-Fluorobiphenyl	9.05	172	182358	10.67	ng	-0.01
78) Terphenyl-d14	12.77	244	119319	7.11	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.03	128	10804465	378.09	ng	# 93
37) 2-Methylnaphthalene	8.69	142	1613348	96.57	ng	96
45) 1,1'-Biphenyl	9.15	154	319088	13.97	ng	99
48) Acenaphthylene	9.58	152	893281	33.94	ng	97
51) Acenaphthene	9.76	154	456673	27.89	ng	98
54) Dibenzofuran	9.93	168	84421	4.02	ng	# 86
57) Fluorene	10.27	166	536815m	29.95	ng	
70) Phenanthrene	11.23	178	1842054	79.67	ng	99
71) Anthracene	11.28	178	605071	25.59	ng	99
74) Fluoranthene	12.41	202	737107	30.99	ng	94
77) Pyrene	12.64	202	1052204	38.58	ng	99
80) Benzo(a)anthracene	13.81	228	361110m	18.06	ng	
82) Chrysene	13.85	228	261000	12.83	ng	97
85) Indeno(1,2,3-cd)pyrene	16.49	276	97259	5.75	ng	# 87
87) Benzo(b)fluoranthene	14.82	252	200939m	9.54	ng	
88) Benzo(k)fluoranthene	14.83	252	93297m	5.41	ng	
89) Benzo(a)pyrene	15.14	252	246708m	13.57	ng	
91) Benzo(g,h,i)perylene	16.87	276	111903	7.19	ng	94

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

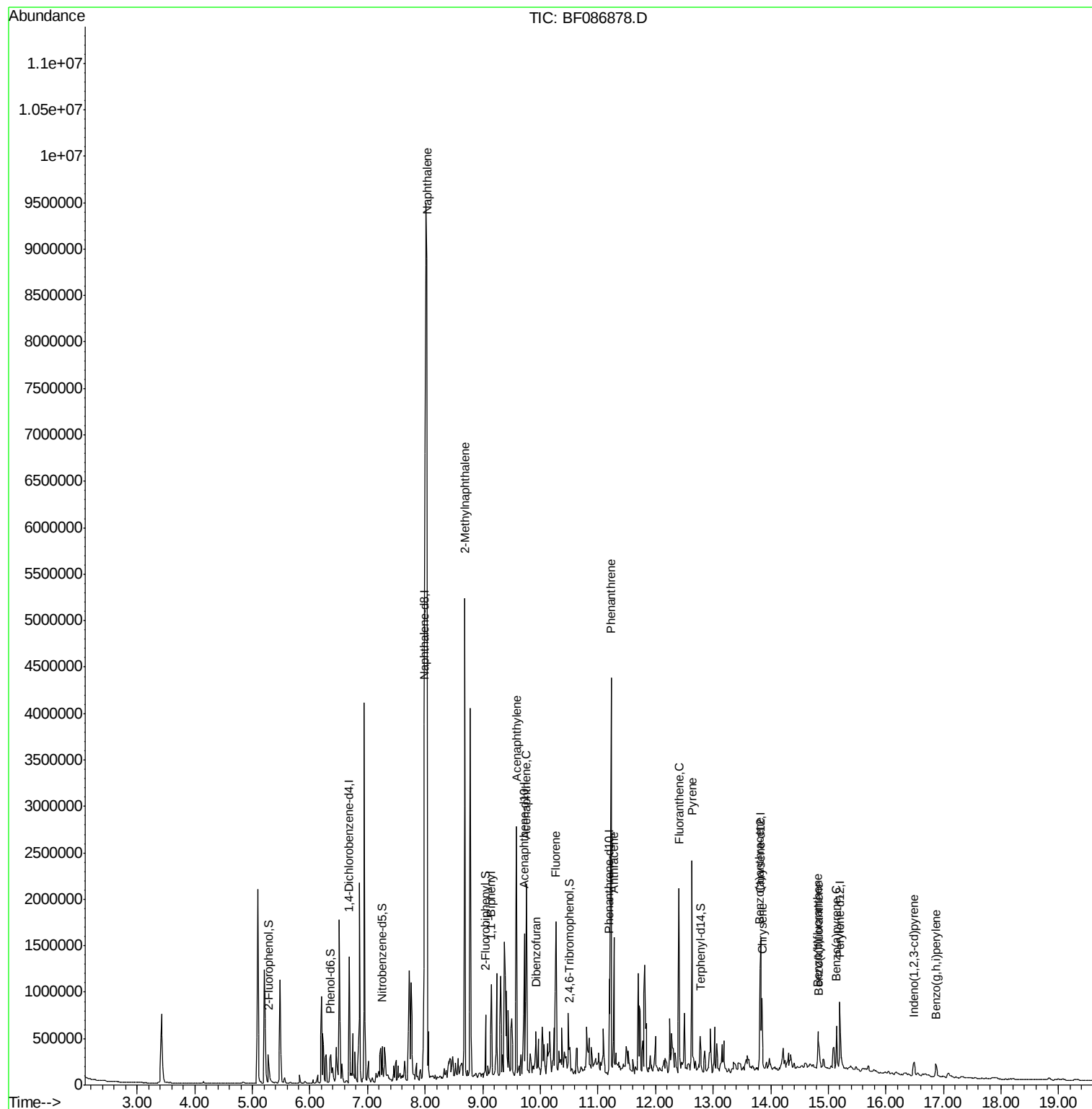
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051016\
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ALS Vial : 24 Sample Multiplier: 1

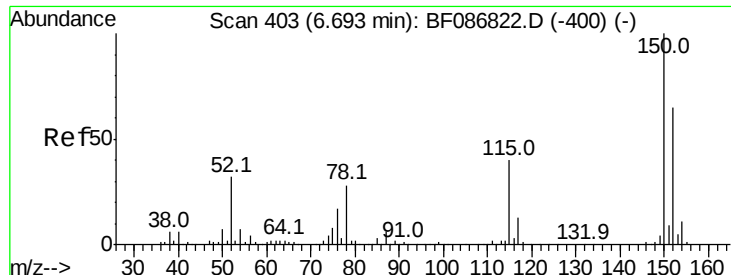
Instrument :
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QLast Update : Mon May 09 16:04:56 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 402

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMPDL

Tot Ion:152 Resp: 177639

Ion Ratio Lower Upper

152 100

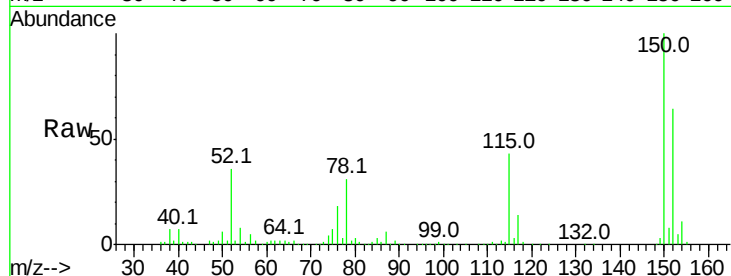
150 156.8 125.8 188.6

115 66.7 51.5 77.3

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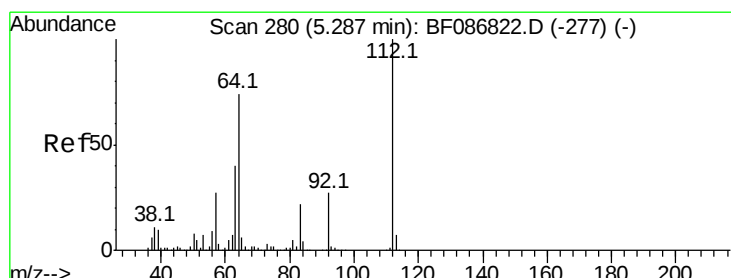
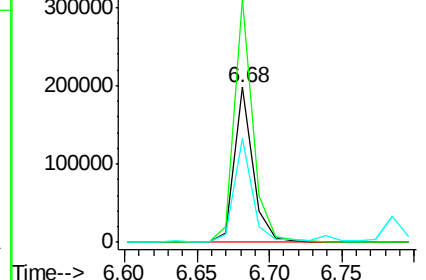
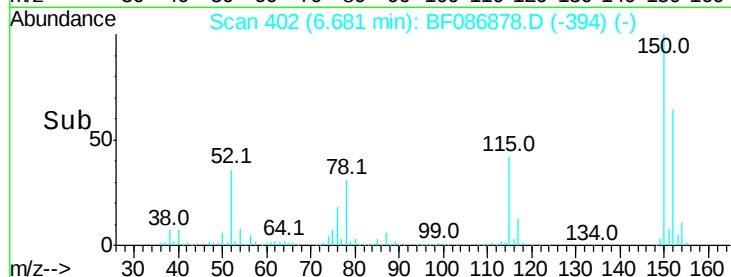
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 11.04 ng

RT: 5.28 min Scan# 279

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

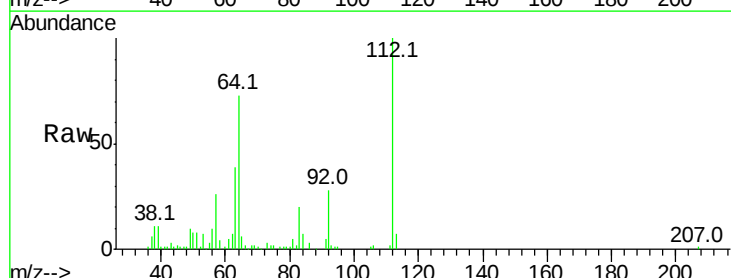
Tgt Ion:112 Resp: 115786

Ion Ratio Lower Upper

112 100

64 73.1 52.1 78.1

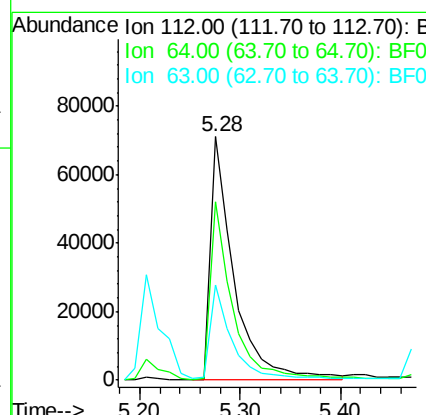
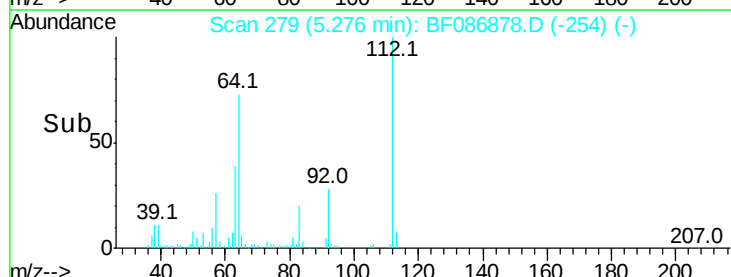
63 38.9 25.7 38.5#

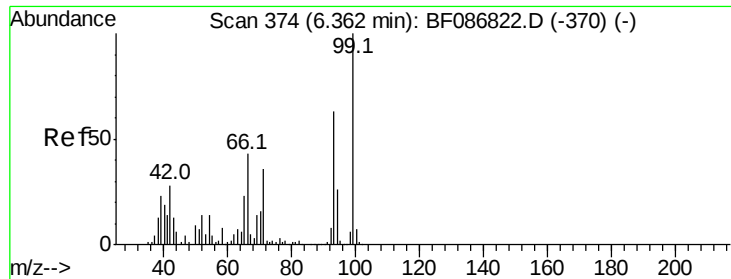


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 10.13 ng

RT: 6.35 min Scan# 373

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

ClientSampleId :

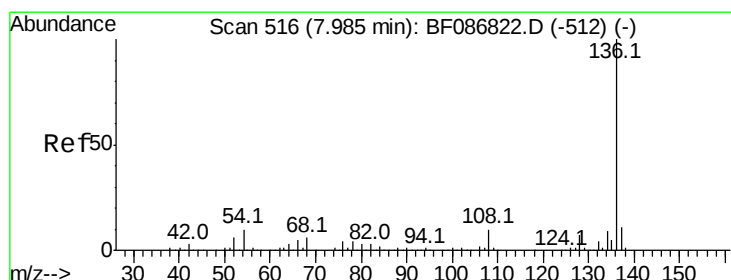
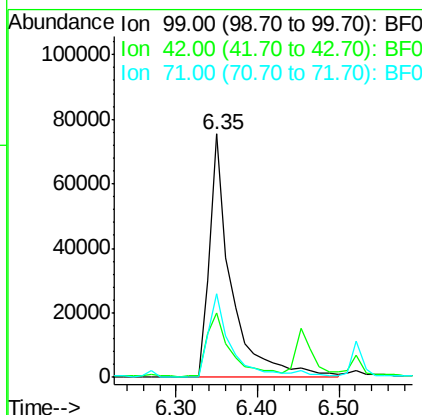
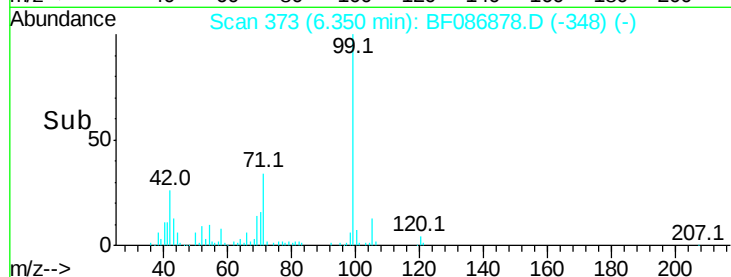
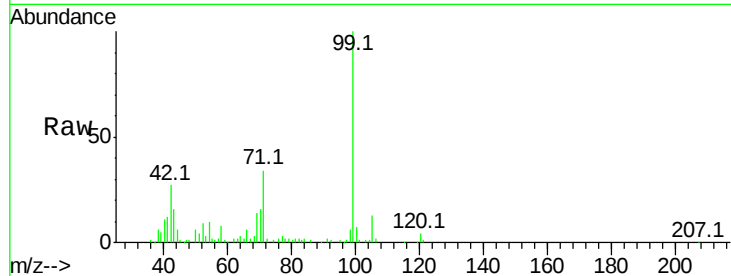
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Tot Ion: 99 Resp: 141952

Ion	Ratio	Lower	Upper
99	100		
42	26.6	13.6	20.4#
71	34.3	24.6	36.8

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.98 min Scan# 516

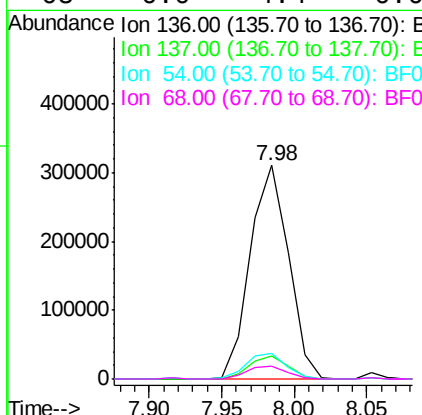
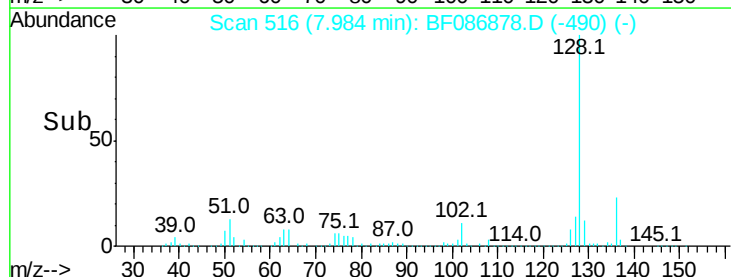
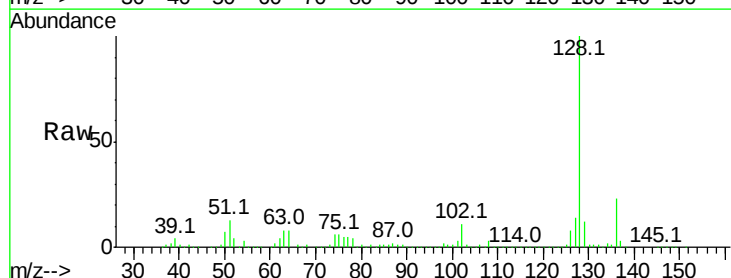
Delta R.T. -0.00 min

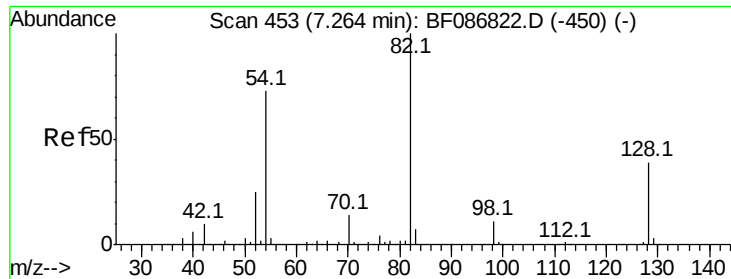
Lab File: BF086878.D

Acq: 11 May 2016 3:45

Tgt Ion: 136 Resp: 570525

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	11.7	5.0	7.4#
68	6.0	4.4	6.6





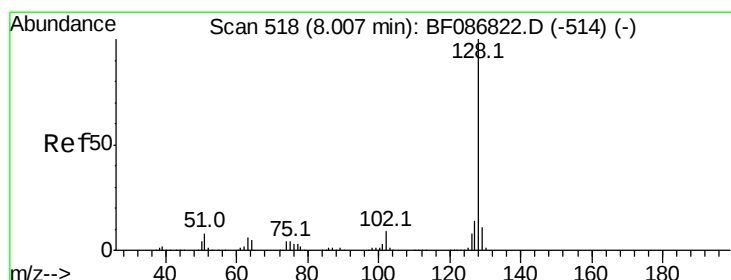
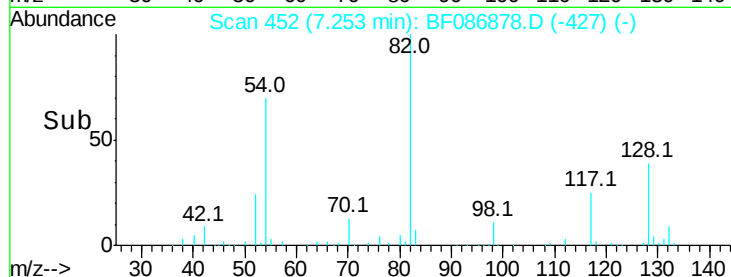
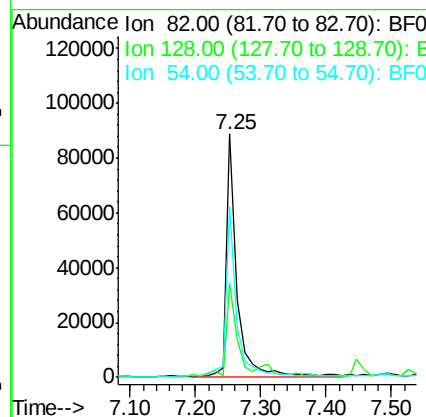
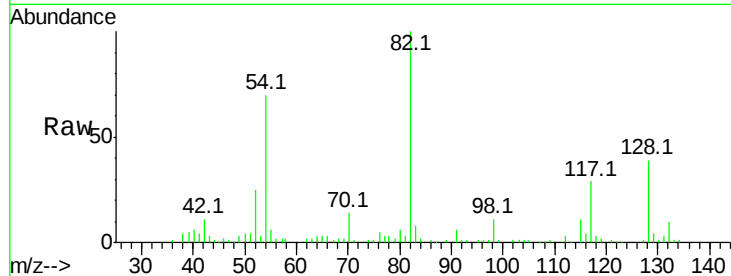
#23
Nitrobenzene-d5
Concen: 8.92 ng
RT: 7.25 min Scan# 452
Delta R.T. -0.01 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	38.7	40.6	61.0#	
54	70.1	38.1	57.1#	

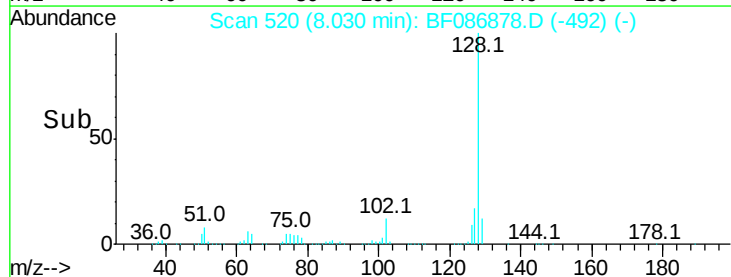
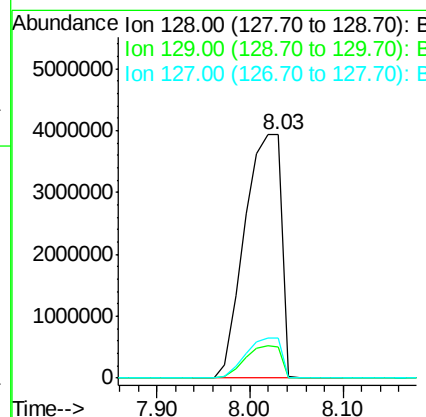
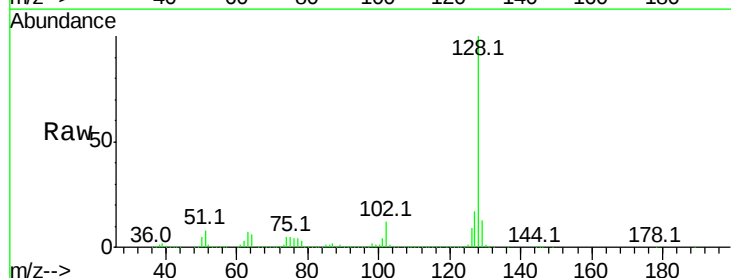
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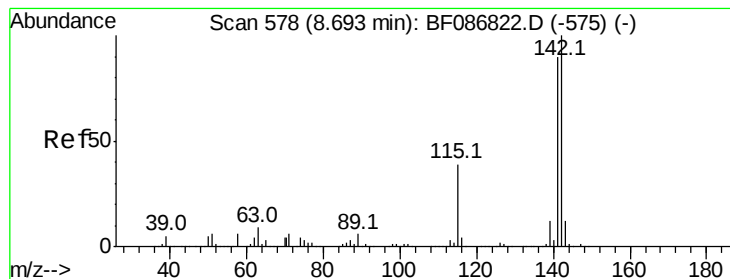
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#31
Naphthalene
Concen: 378.09 ng
RT: 8.03 min Scan# 520
Delta R.T. 0.02 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.6	8.6	13.0
127	16.7	10.8	16.2#





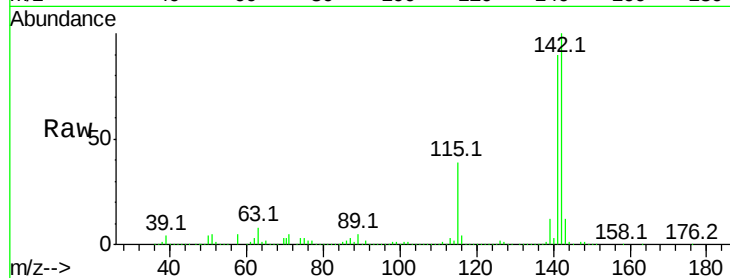
#37
2-Methylnaphthalene
Concen: 96.57 ng
RT: 8.69 min Scan# 578
Delta R.T. -0.00 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.0	106.6
115	39.0	26.6	39.8

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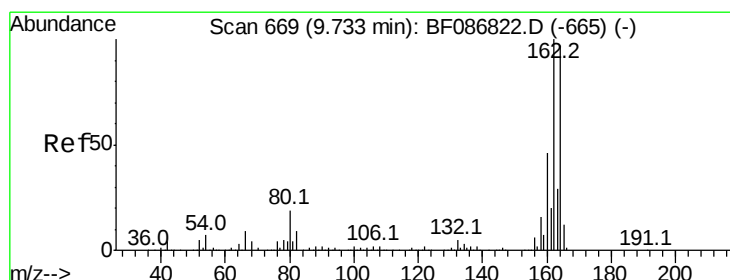
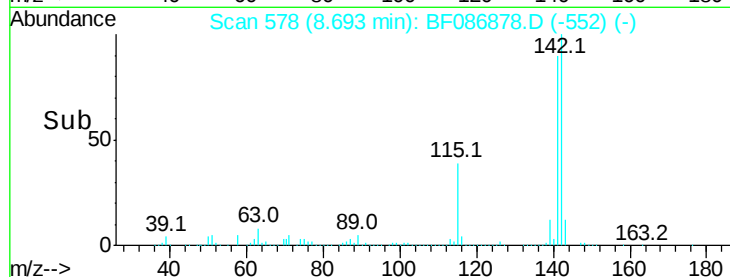
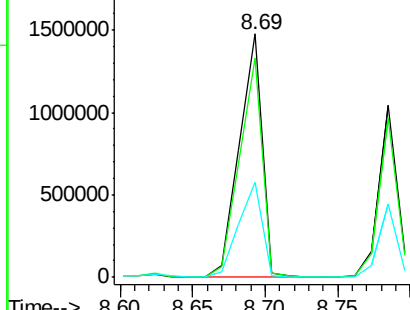


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.01 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

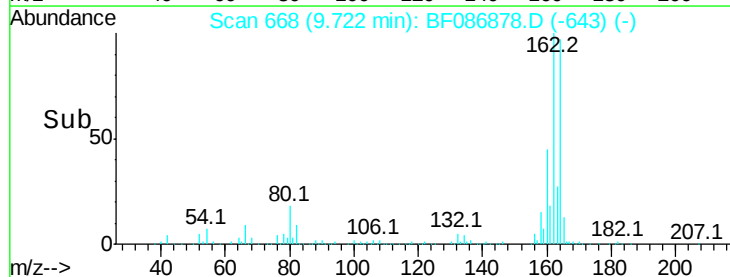
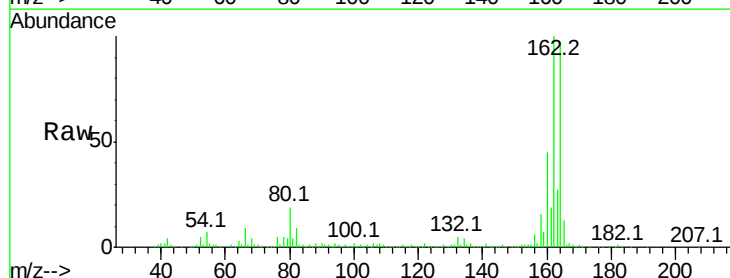
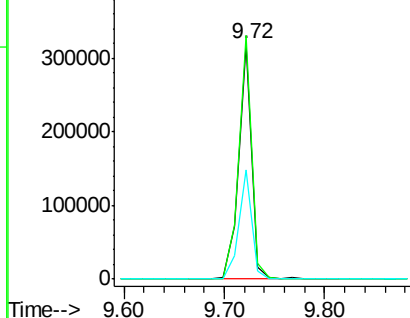
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.8	124.2
160	46.5	36.9	55.3

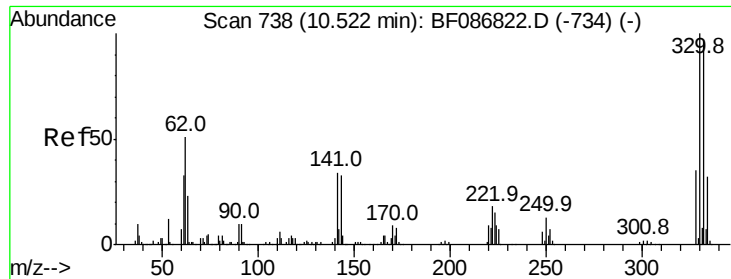
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





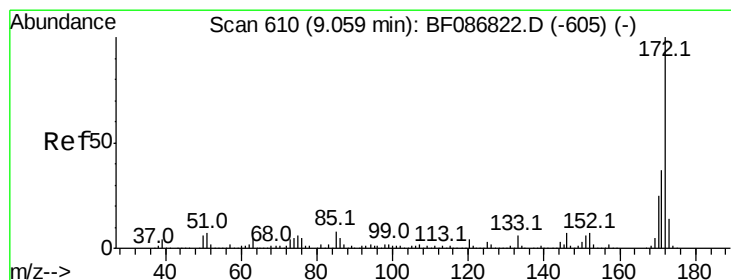
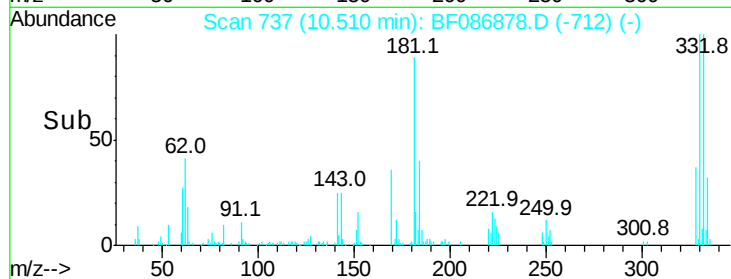
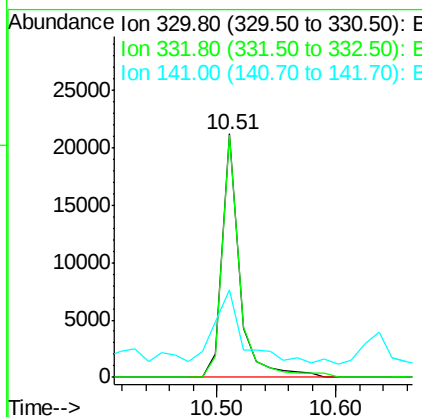
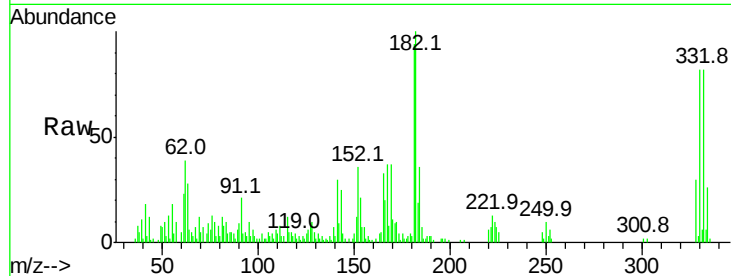
#41
 2,4,6-Tribromophenol
 Concen: 7.01 ng
 RT: 10.51 min Scan# 737
 Delta R.T. -0.01 min
 Lab File: BF086878.D
 Acq: 11 May 2016 3:45

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B3COMPDL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	99.7	79.0	118.4	
141	51.3	31.2	46.8	

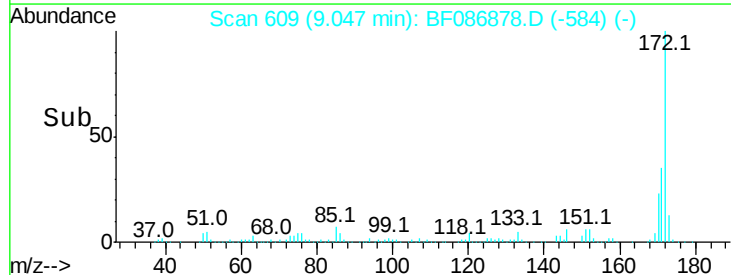
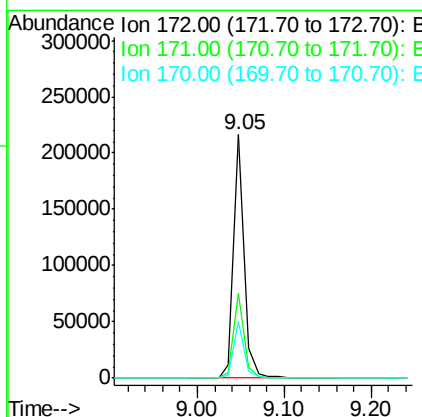
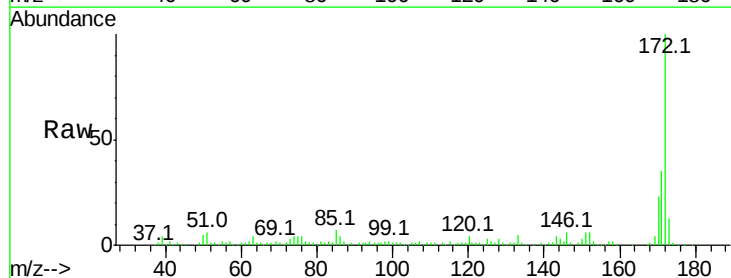
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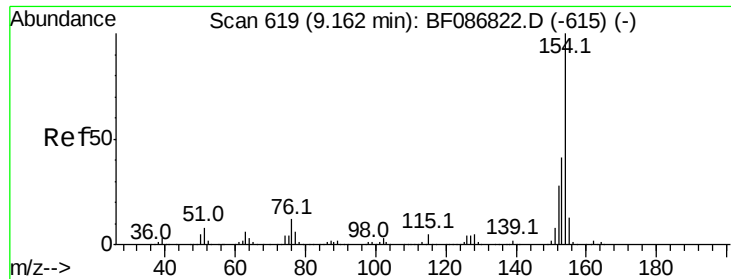
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#44
 2-Fluorobiphenyl
 Concen: 10.67 ng
 RT: 9.05 min Scan# 609
 Delta R.T. -0.01 min
 Lab File: BF086878.D
 Acq: 11 May 2016 3:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.8	29.0	43.6	
170	23.4	19.8	29.8	





#45

1,1'-Biphenyl

Concen: 13.97 ng

RT: 9.15 min Scan# 618

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

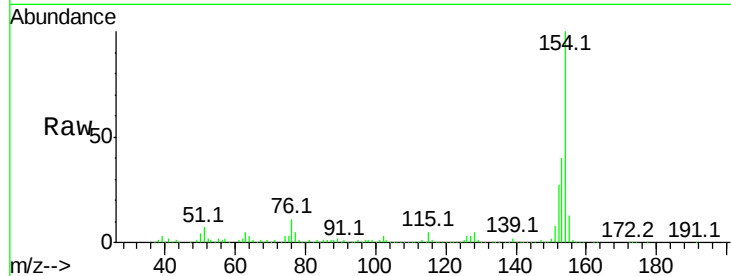
ClientSampleId :

TEC-B3COMPDL

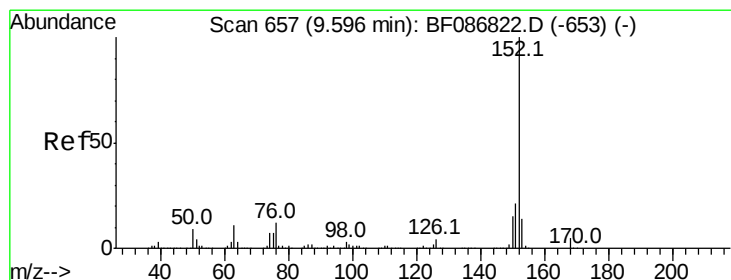
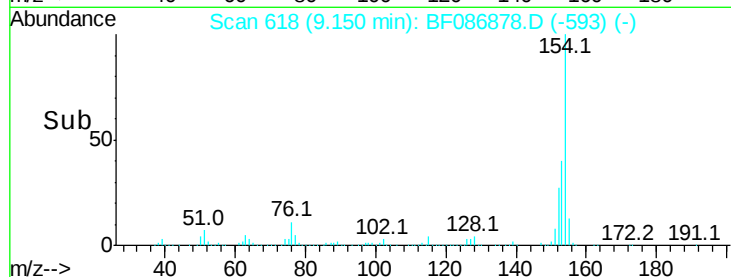
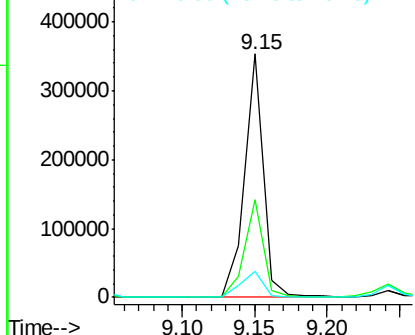
Tot Ion:	154	Resp:	319088
Ion Ratio	Lower	Upper	
154	100		
153	39.9	20.3	60.3
76	10.6	0.0	30.2

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



#48

Acenaphthylene

Concen: 33.94 ng

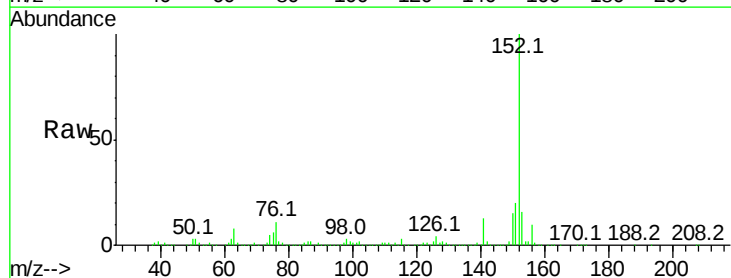
RT: 9.58 min Scan# 656

Delta R.T. -0.01 min

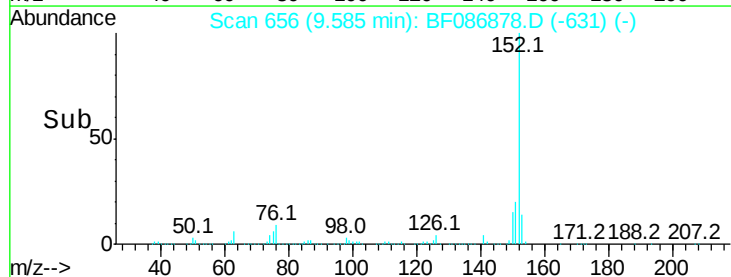
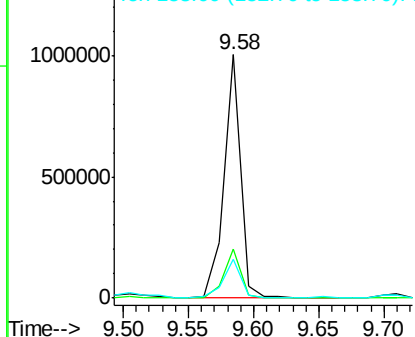
Lab File: BF086878.D

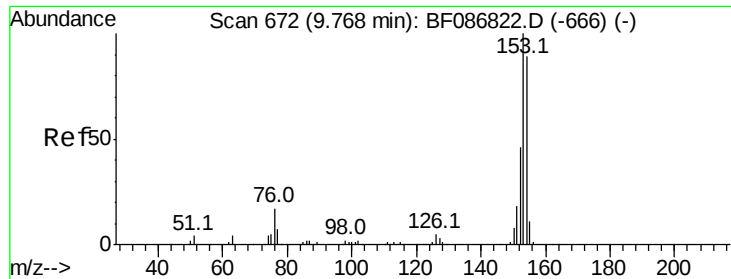
Acq: 11 May 2016 3:45

Tgt Ion:	152	Resp:	893281
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.8	25.2
153	15.8	10.9	16.3



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: 27.89 ng

RT: 9.76 min Scan# 671

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

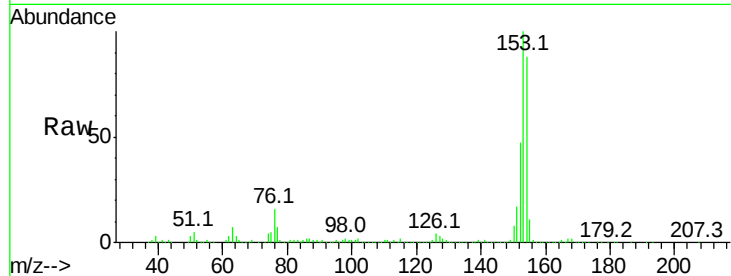
ClientSampleId :

TEC-B3COMPDL

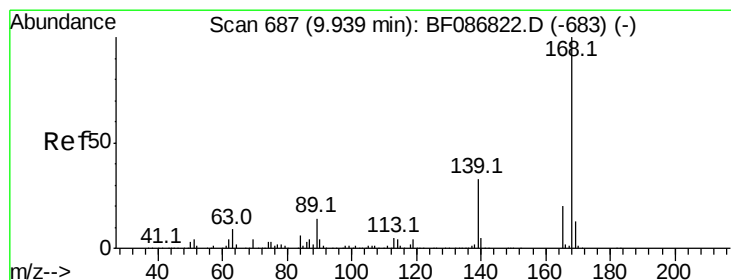
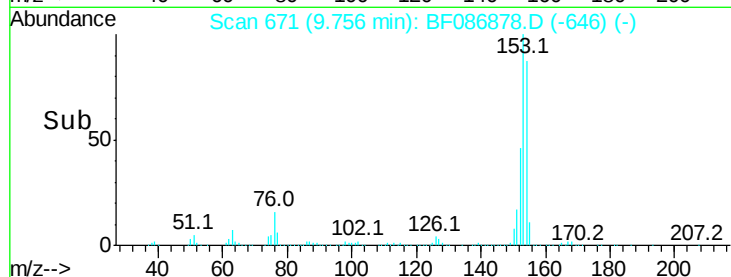
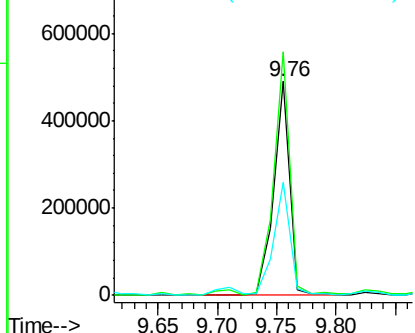
Tot Ion:	154	Resp:	456673
Ion Ratio	Lower	Upper	
154	100		
153	114.0	89.8	134.6
152	53.1	43.4	65.0

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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: 4.02 ng

RT: 9.93 min Scan# 686

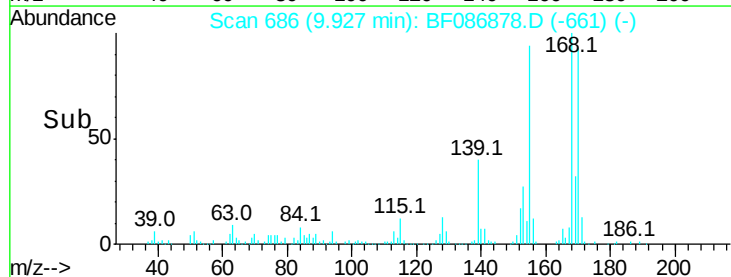
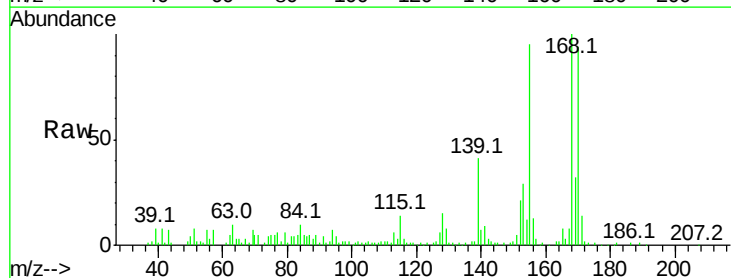
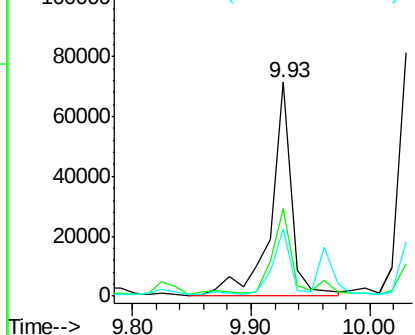
Delta R.T. -0.01 min

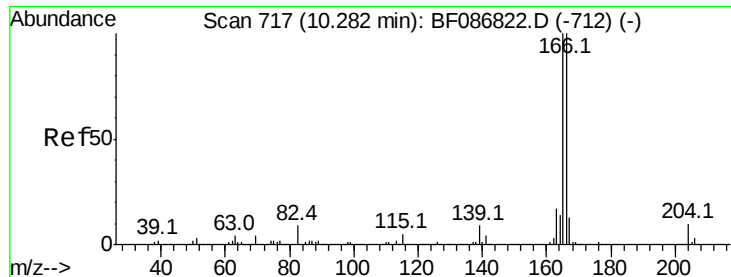
Lab File: BF086878.D

Acq: 11 May 2016 3:45

Tgt Ion:	168	Resp:	84421
Ion Ratio	Lower	Upper	
168	100		
139	40.9	31.4	47.0
169	31.6	10.7	16.1#

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: 29.95 ng m

RT: 10.27 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

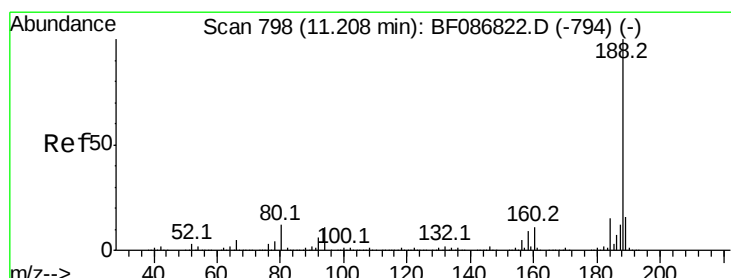
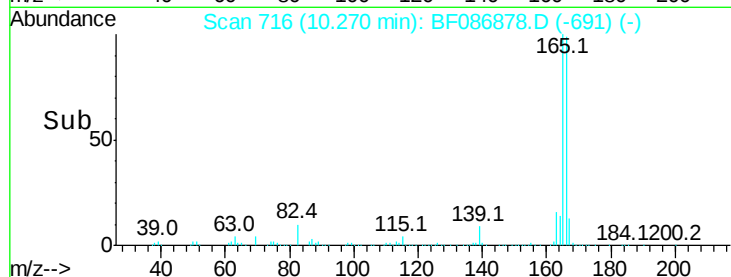
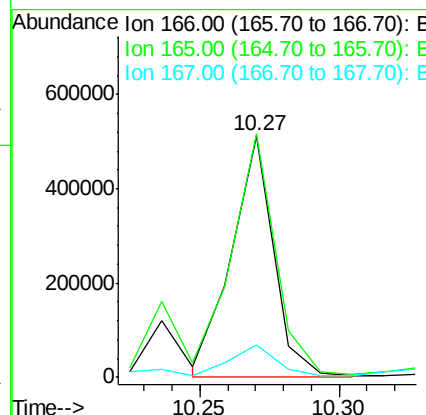
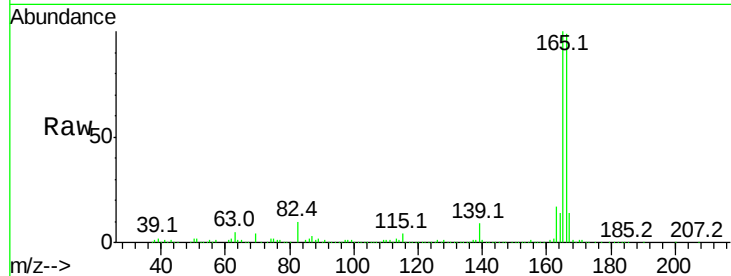
ClientSampleId :

TEC-B3COMPDL

Tot Ion:	166	Resp:	536815
Ion Ratio	Lower	Upper	
166	100		
165	100.7	79.0	118.6
167	13.6	10.6	15.8

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#63

Phenanthrene-d10

Concen: 20.00 ng

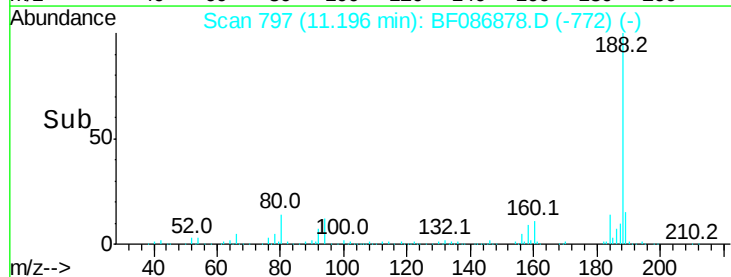
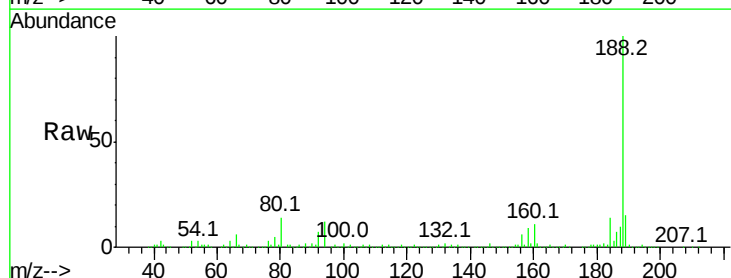
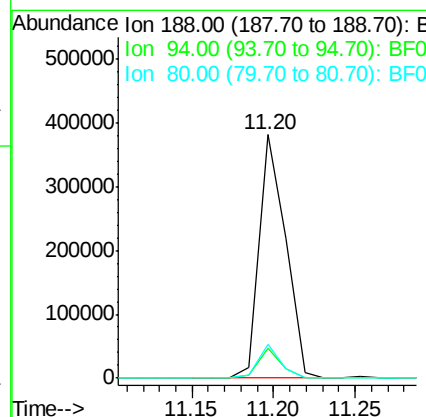
RT: 11.20 min Scan# 797

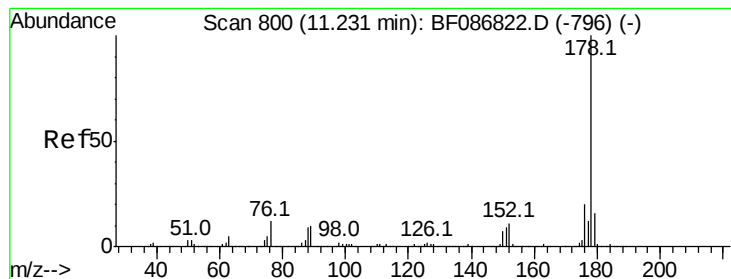
Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Tgt Ion:	188	Resp:	433276
Ion Ratio	Lower	Upper	
188	100		
94	12.3	6.8	10.2#
80	13.8	7.1	10.7#





#70

Phenanthrene

Concen: 79.67 ng

RT: 11.23 min Scan# 800

Delta R.T. -0.00 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMPDL

Tot Ion:178 Resp: 1842054

Ion Ratio Lower Upper

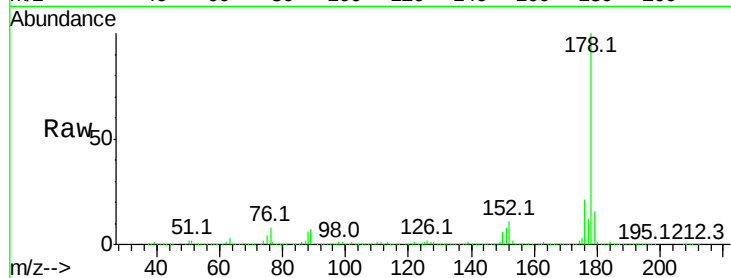
178 100

176 20.6 16.0 24.0

179 15.8 12.6 18.8

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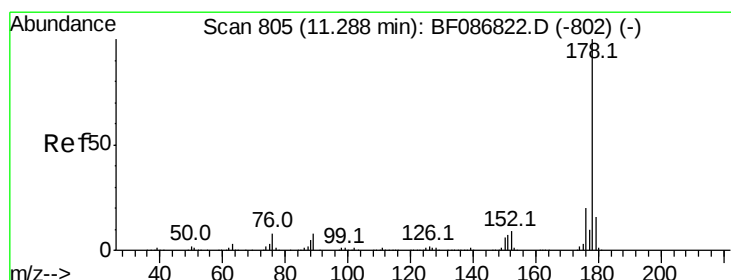
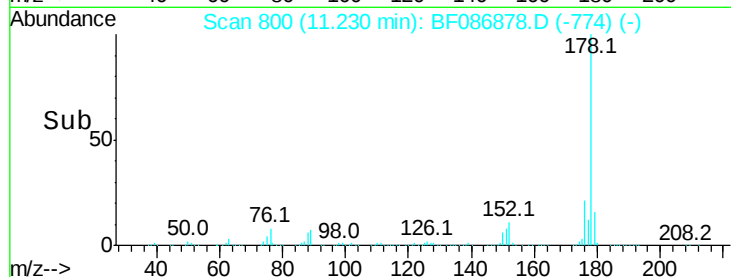
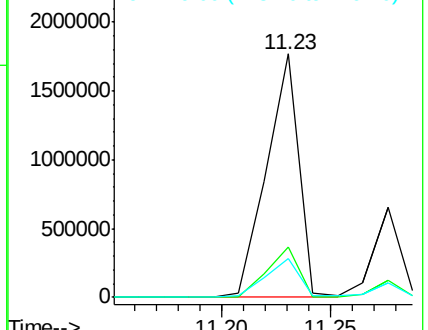
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 25.59 ng

RT: 11.28 min Scan# 804

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Tgt Ion:178 Resp: 605071

Ion Ratio Lower Upper

178 100

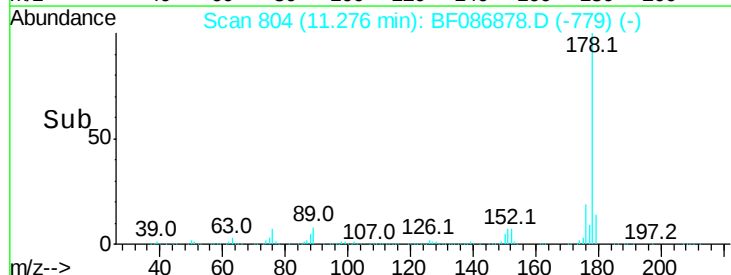
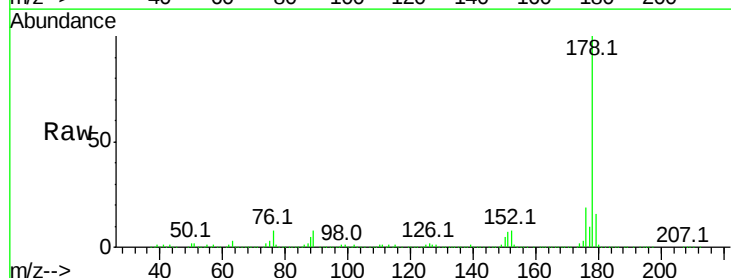
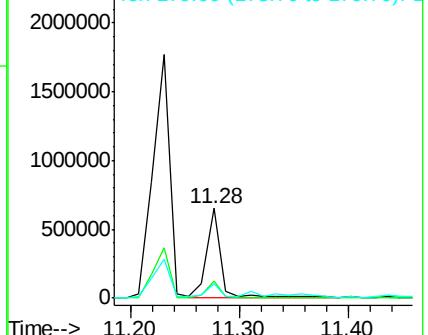
176 18.9 15.6 23.4

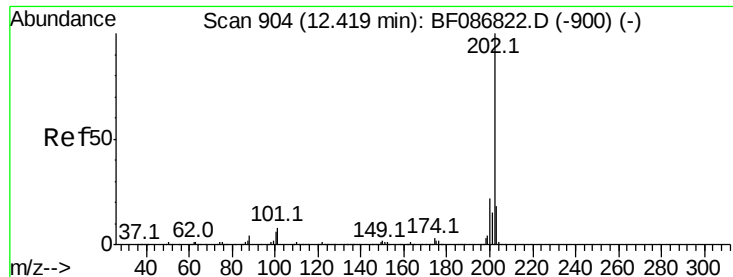
179 15.5 12.7 19.1

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 30.99 ng

RT: 12.41 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

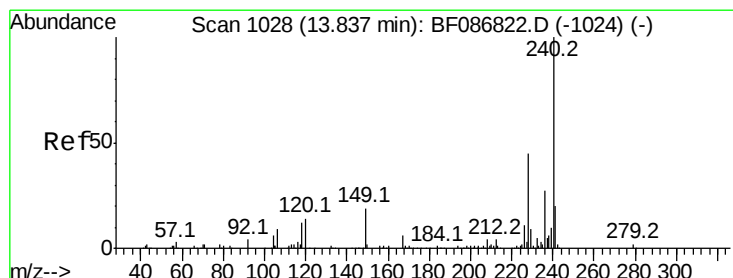
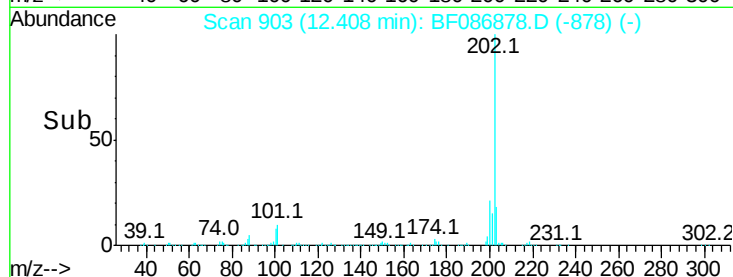
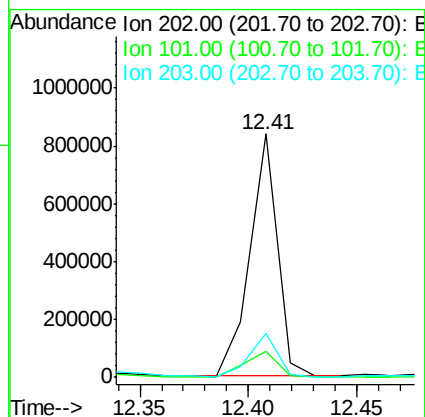
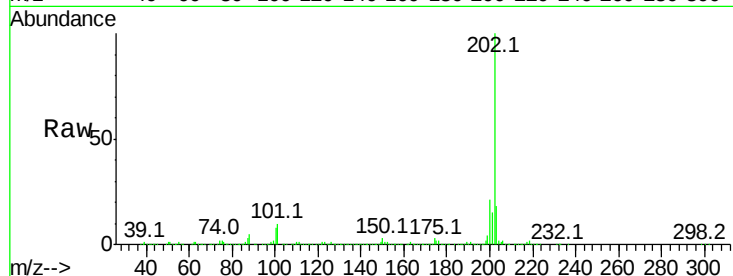
ClientSampleId :

TEC-B3COMPDL

Tot Ion	Ion	Ratio	Resp Lower	Upper
202	100			
101	10.4	0.0	35.4	
203	17.9	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.00 ng

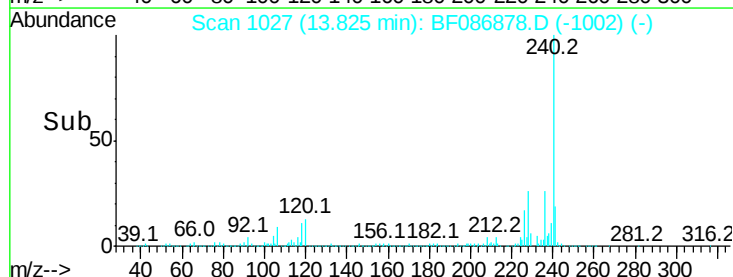
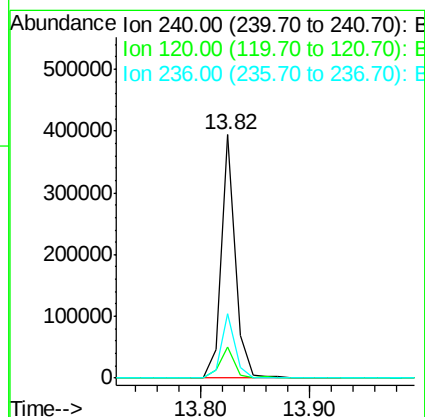
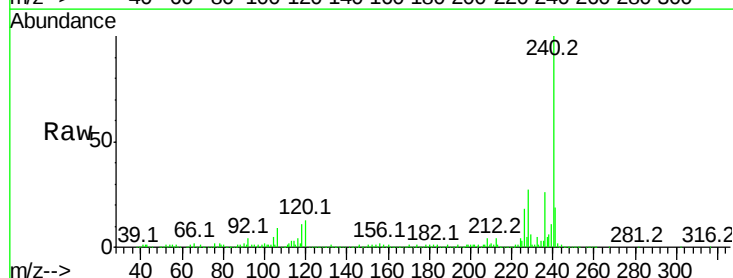
RT: 13.82 min Scan# 1027

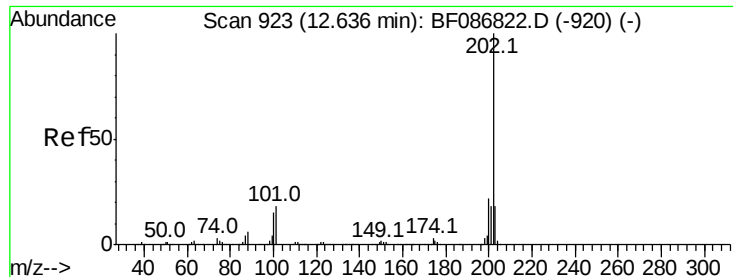
Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Tgt Ion	Ion	Ratio	Resp Lower	Upper
240	100			
120	12.8	11.2	16.8	
236	26.4	21.2	31.8	





#77

Pvrene

Concen: 38.58 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.00 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

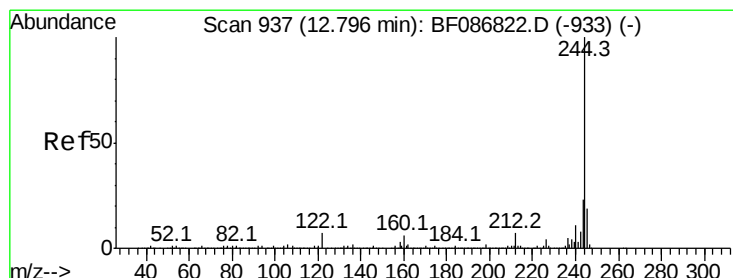
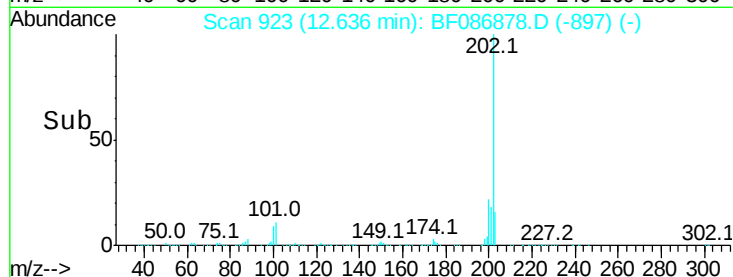
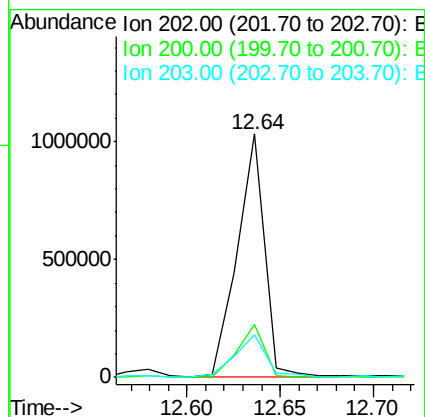
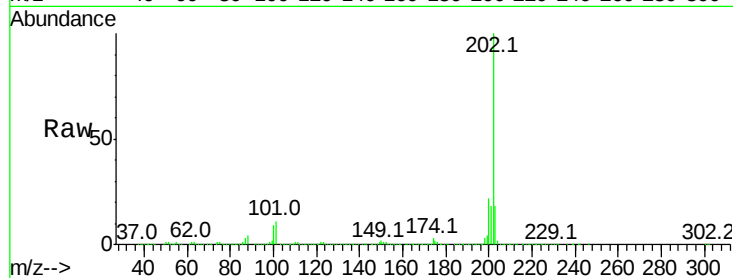
ClientSampleId :

TEC-B3COMPDL

Tot Ion:	202	Resp:	1052204
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.7	26.5
203	17.5	14.2	21.4

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#78

Terphenyl-d14

Concen: 7.11 ng

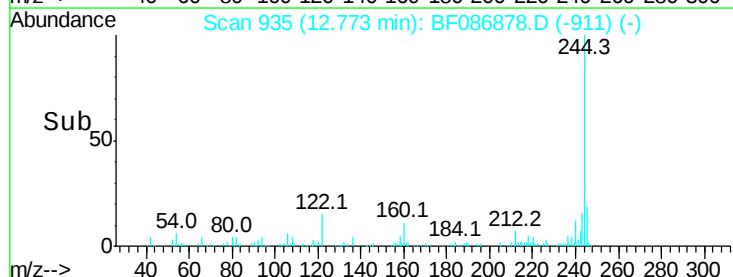
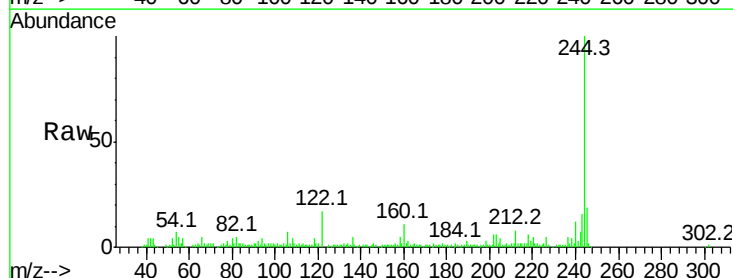
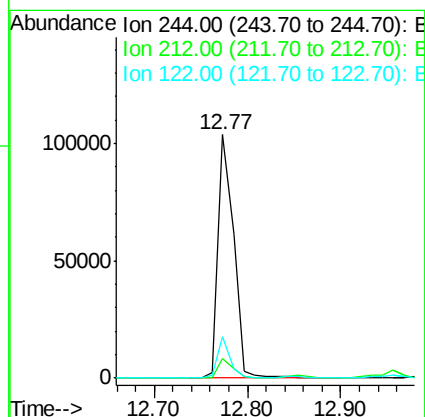
RT: 12.77 min Scan# 935

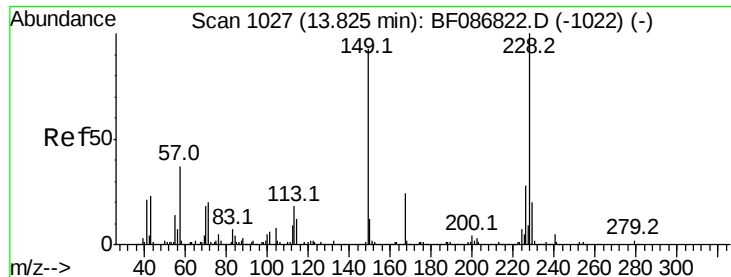
Delta R.T. -0.02 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Tgt Ion:	244	Resp:	119319
Ion Ratio	Lower	Upper	
244	100		
212	7.8	6.2	9.2
122	17.1	12.0	18.0





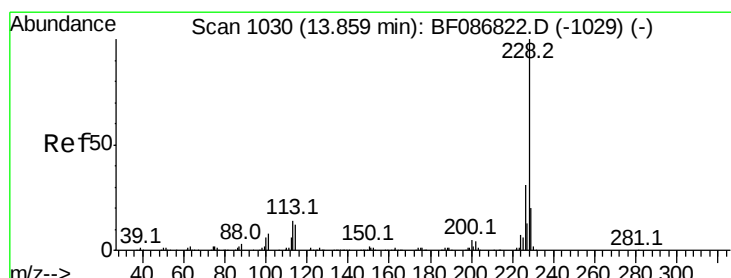
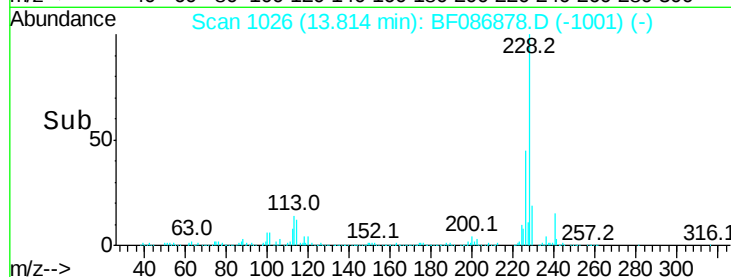
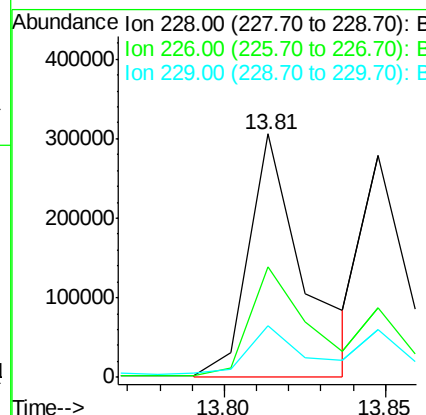
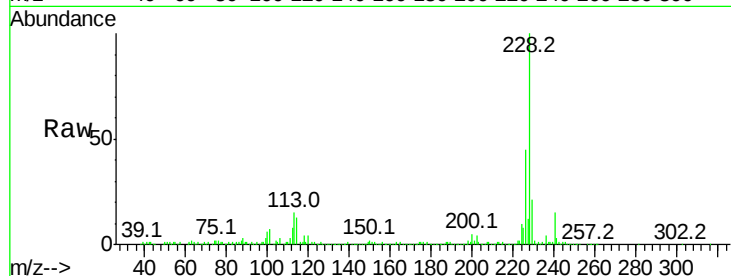
#80
Benzo(a)anthracene
Concen: 18.06 ng
RT: 13.81 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	45.4	22.5	33.7#
229	21.2	16.6	25.0

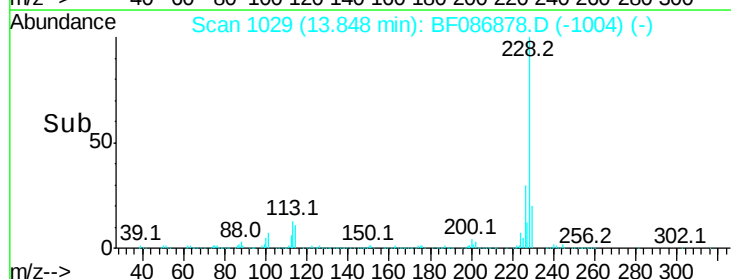
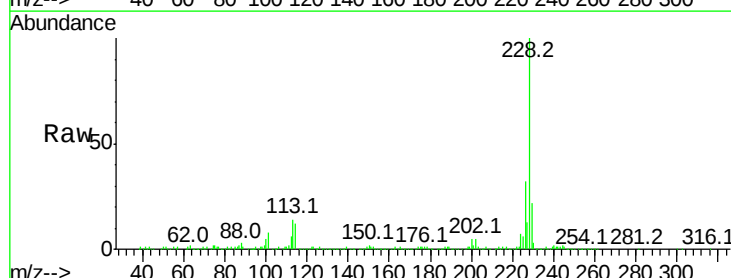
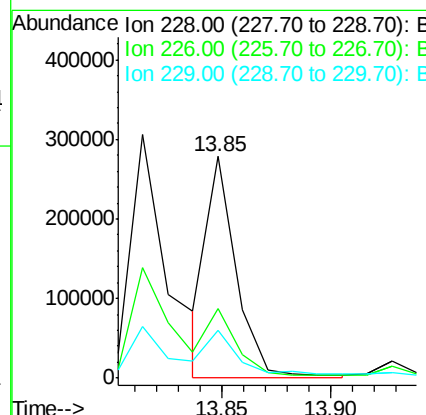
Manual Integrations
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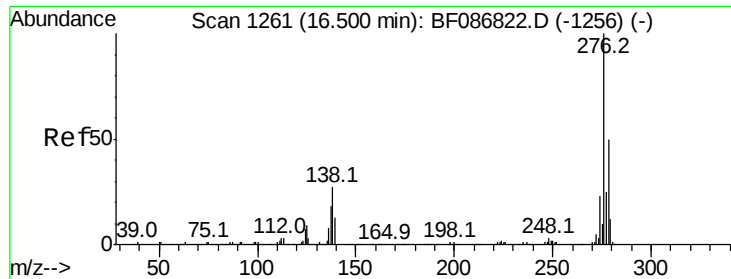
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#82
Chrysene
Concen: 12.83 ng
RT: 13.85 min Scan# 1029
Delta R.T. -0.01 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.4	36.6
229	21.7	15.8	23.8





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.75 ng

RT: 16.49 min Scan# 1260

Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Instrument :

BNA_F

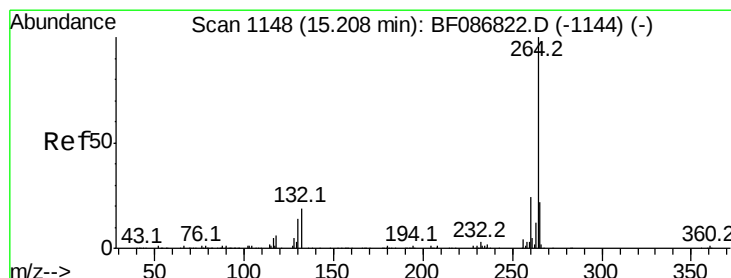
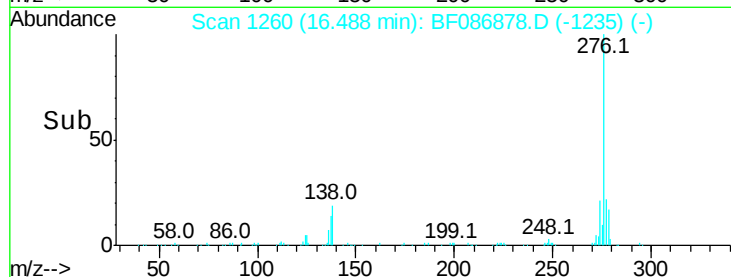
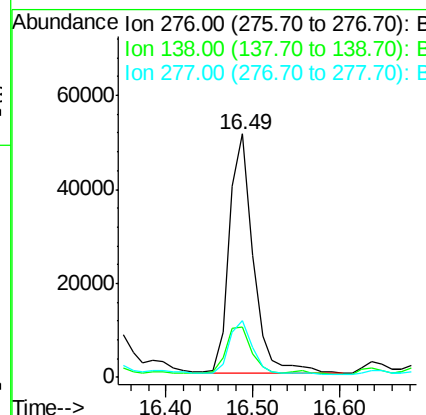
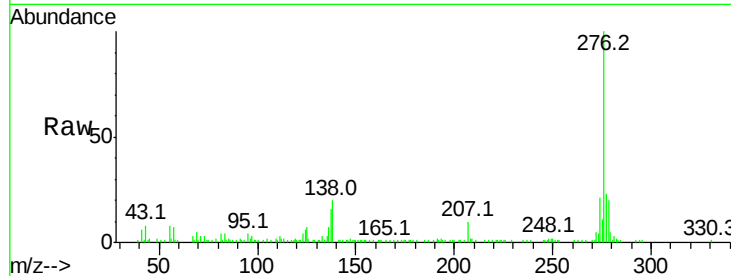
ClientSampleId :

TEC-B3COMPDL

Tot Ion:	276	Resp:	97259
Ion Ratio	Lower	Upper	
276	100		
138	21.1	25.6	38.4#
277	23.0	20.5	30.7

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#86

Perylene-d12

Concen: 20.00 ng

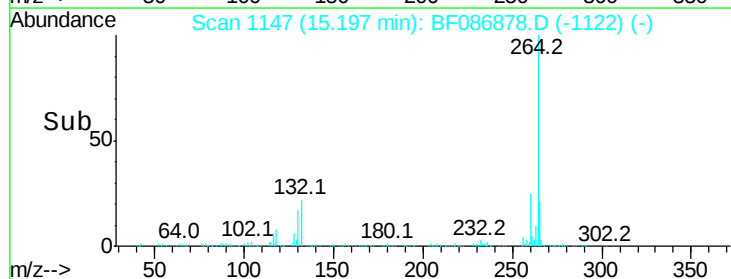
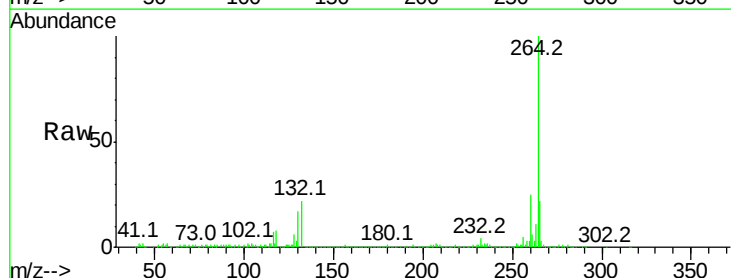
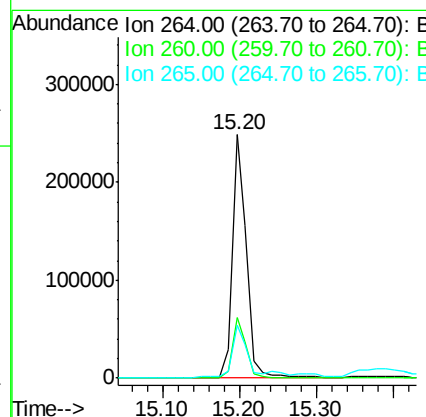
RT: 15.20 min Scan# 1147

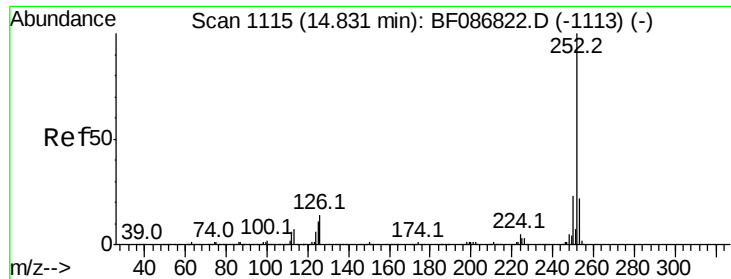
Delta R.T. -0.01 min

Lab File: BF086878.D

Acq: 11 May 2016 3:45

Tgt Ion:	264	Resp:	324249
Ion Ratio	Lower	Upper	
264	100		
260	24.7	19.5	29.3
265	21.8	17.3	25.9





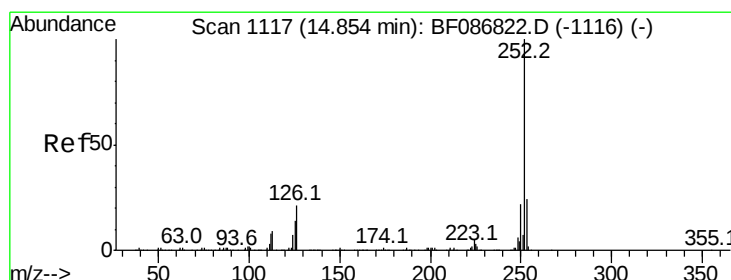
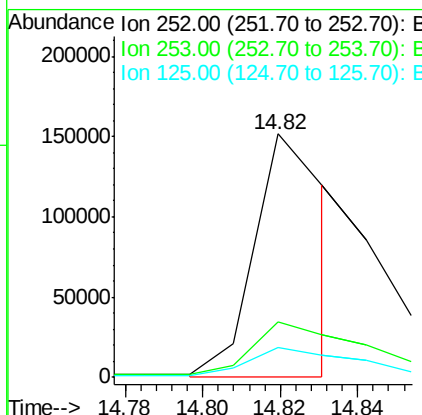
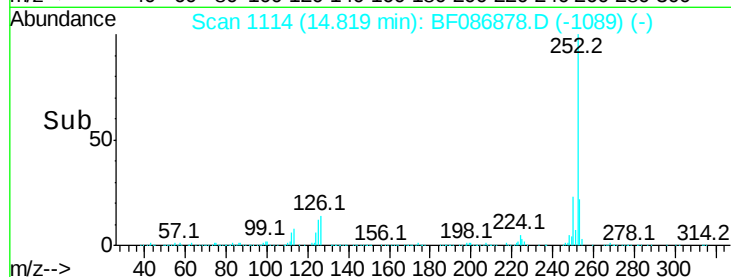
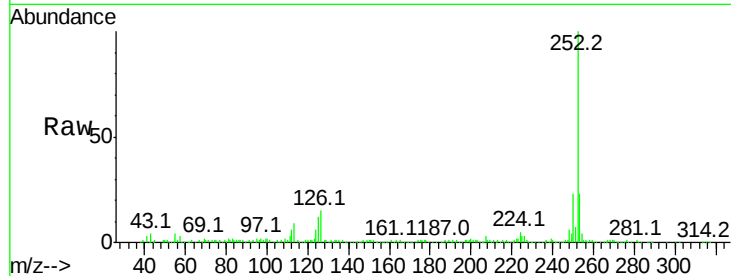
#87
Benzo(b)fluoranthene
Concen: 9.54 ng m
RT: 14.82 min Scan# 1114
Delta R.T. -0.01 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	12.5	11.4	17.0

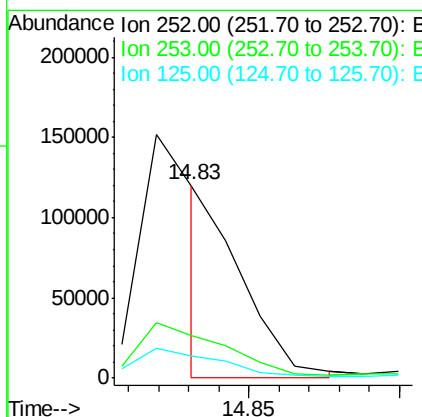
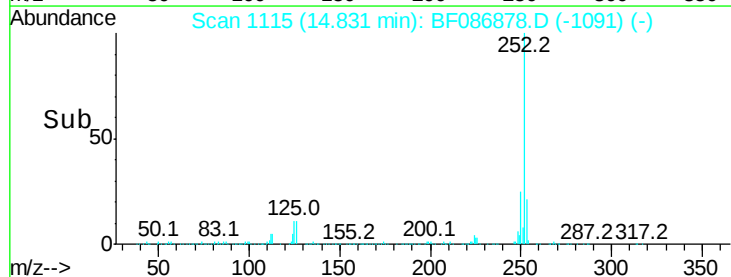
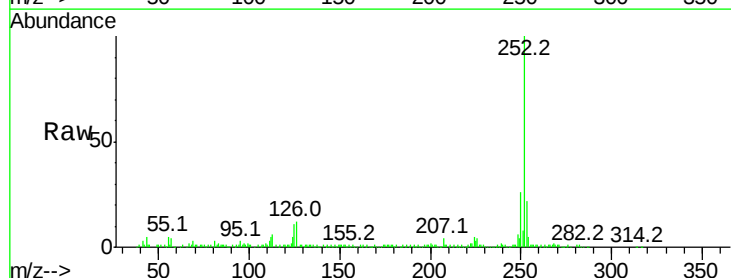
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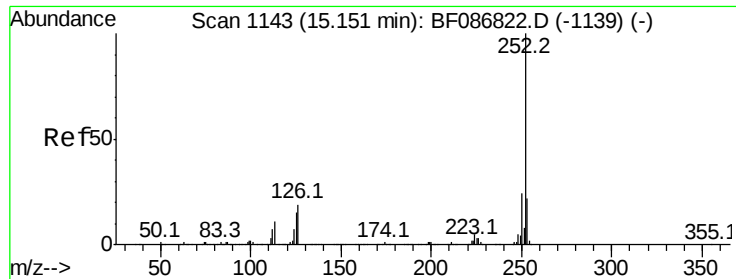
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#88
Benzo(k)fluoranthene
Concen: 5.41 ng m
RT: 14.83 min Scan# 1115
Delta R.T. -0.02 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	11.5	9.1	13.7





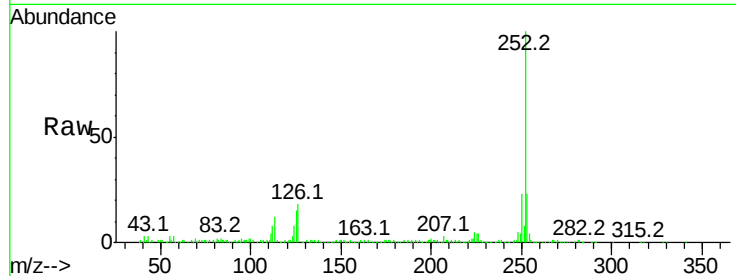
#89
Benzo(a)pyrene
Concen: 13.57 ng/ml
RT: 15.14 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMPDL

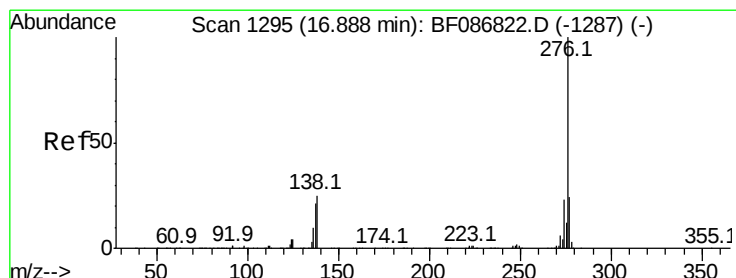
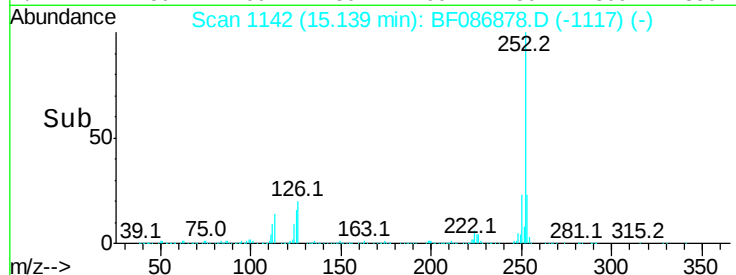
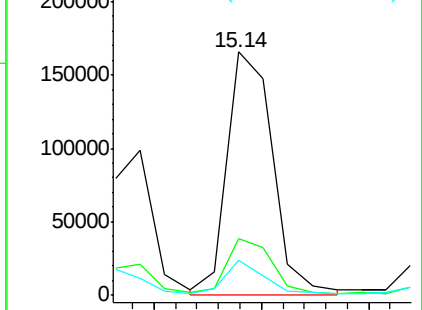
Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.3	17.2	25.8
125	14.6	9.0	13.6

Manual Integrations
APPROVED

sohil
5/11/2016 8:17:52 PM

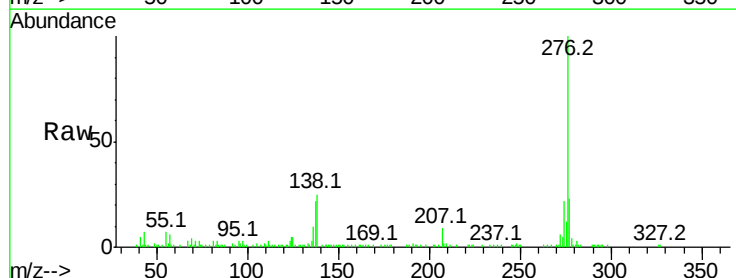


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 7.19 ng/ml
RT: 16.87 min Scan# 1293
Delta R.T. -0.02 min
Lab File: BF086878.D
Acq: 11 May 2016 3:45

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	23.2	19.6	29.4
138	24.7	23.6	35.4



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

