

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
 Data File : BF092677.D
 Acq On : 31 Jan 2017 12:12
 Operator : SJ/MA
 Sample : I1384-05RE
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 UST-3ARE

Manual Integrations
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Quant Time: Jan 31 15:00:57 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 30 14:50:05 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	178281	20.00	ng	0.00
21) Naphthalene-d8	8.27	136	252595	20.00	ng	0.01
38) Acenaphthene-d10	10.08	164	185713	20.00	ng	0.07
63) Phenanthrene-d10	11.53	188	326224	20.00	ng	0.03
75) Chrysene-d12	14.13	240	391516	20.00	ng	-0.01
86) Perylene-d12	15.61	264	282150	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	1016888	97.86	ng	0.00
7) Phenol-d6	6.60	99	1429925	106.95	ng	0.00
23) Nitrobenzene-d5	7.54	82	814098	179.48	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	82560	61.47	ng	0.05
44) 2-Fluorobiphenyl	9.37	172	767256	74.85	ng	0.03
78) Terphenyl-d14	13.09	244	1055433	63.34	ng	0.01
Target Compounds						Qvalue
37) 2-Methylnaphthalene	9.02	142	1448854	176.23	ng	98
45) 1,1'-Biphenyl	9.48	154	160848	11.96	ng	97
57) Fluorene	10.61	166	299534m	26.79	ng	
70) Phenanthrene	11.56	178	1340564	71.73	ng	97
74) Fluoranthene	12.73	202	136460	7.08	ng	93
77) Pyrene	12.94	202	204491m	6.98	ng	
80) Benzo(a)anthracene	14.12	228	57396	2.40	ng	# 94
87) Benzo(b)fluoranthene	15.17	252	52766m	2.84	ng	

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

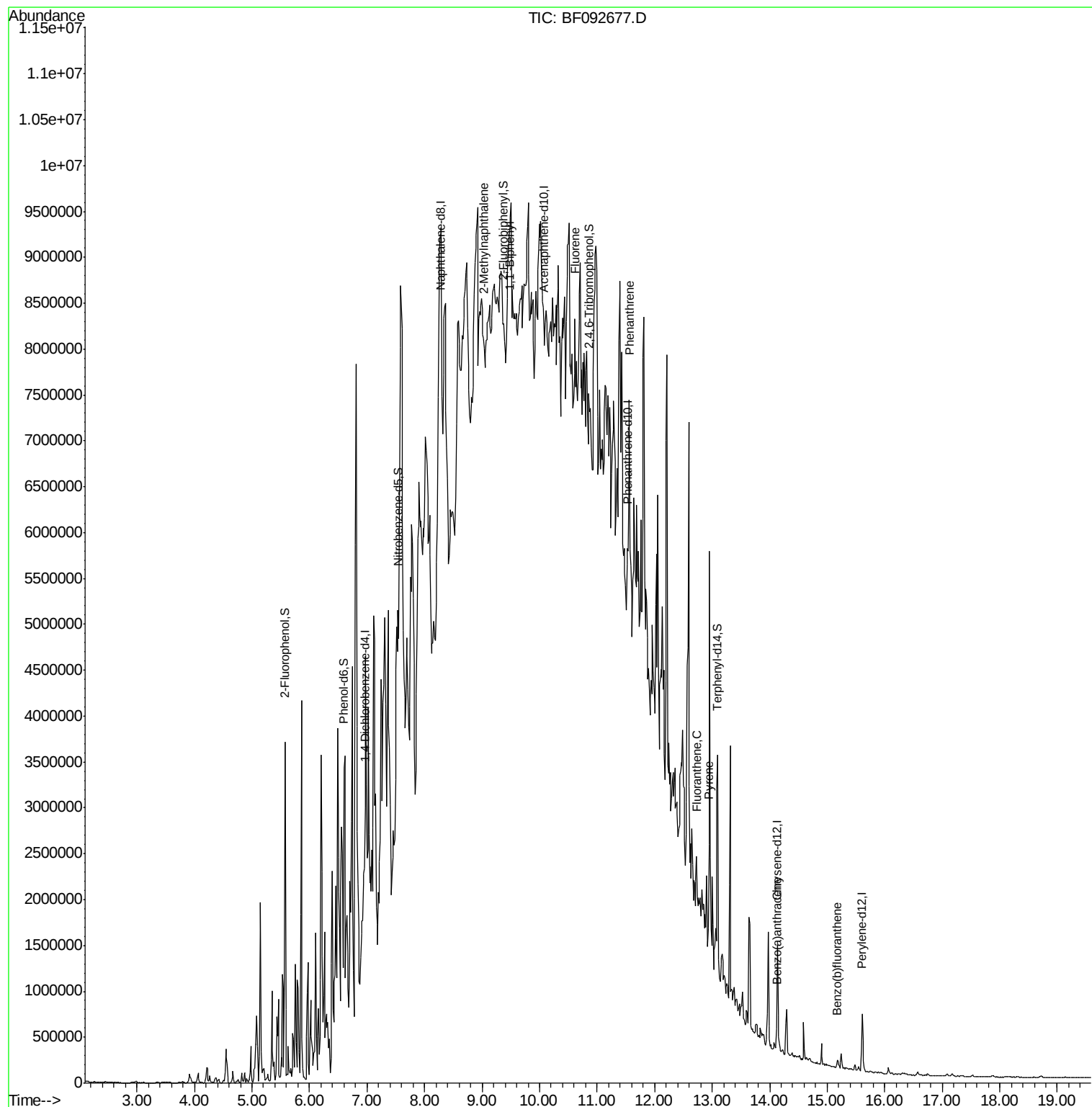
Data Path : Z:\HPCHEM1\BNA F\DATA\BF013017\
Data File : BF092677.D
Acq On : 31 Jan 2017 12:12
Operator : SJ/MA
Sample : I1384-05RE
Misc :
ALS Vial : 37 Sample Multiplier: 1

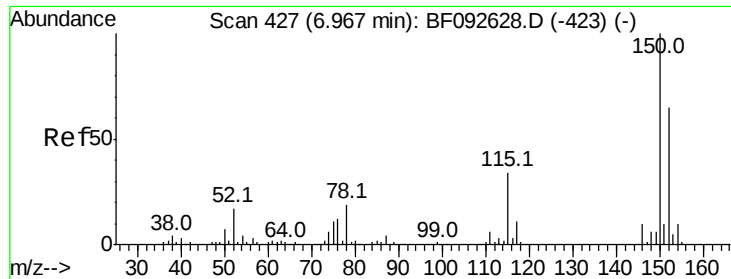
Instrument :
BNA_F
ClientSampleId :
UST-3ARE

Quant Time: Jan 31 15:00:57 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 30 14:50:05 2017
Response via : Initial Calibration

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#1

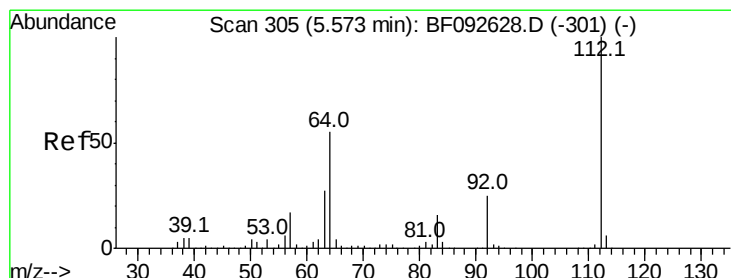
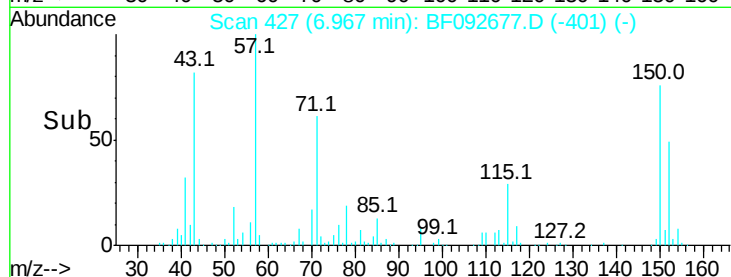
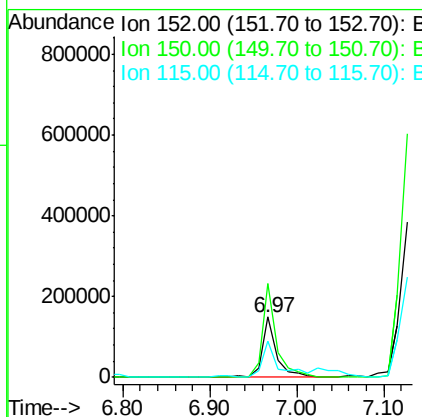
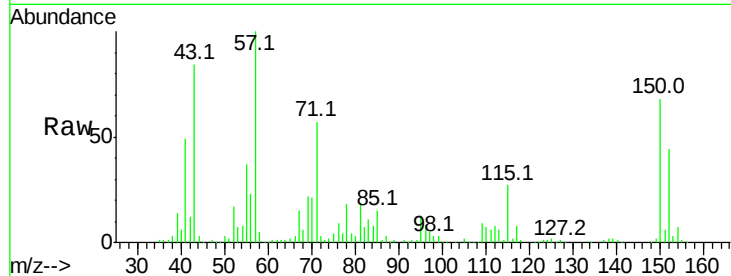
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.97 min Scan# 427
Delta R.T. -0.00 min
Lab File: BF092677.D
Acq: 31 Jan 2017 12:12

Instrument :
BNA_F
ClientSampleId :
UST-3ARE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.9	187.3
115	60.8	46.0	69.0

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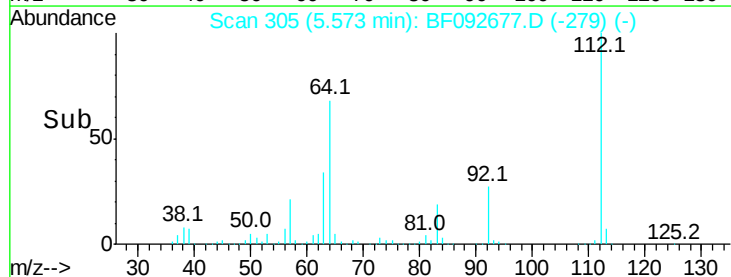
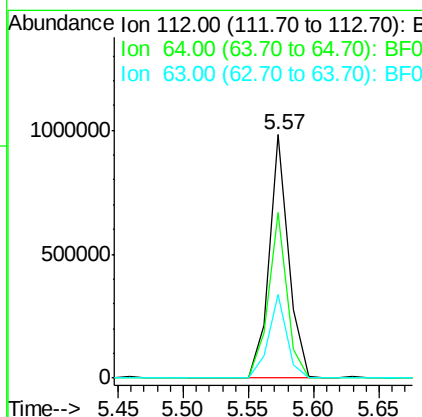
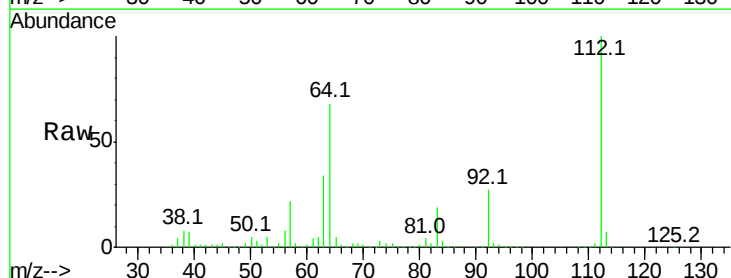
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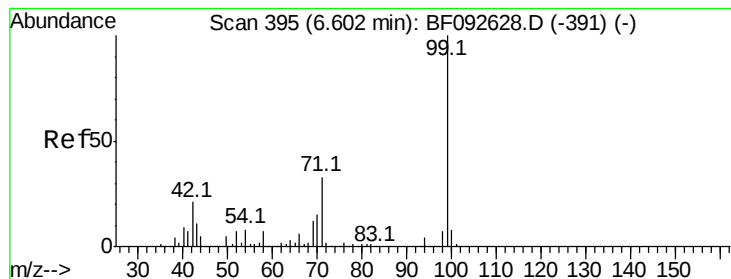


#5

2-Fluorophenol
Concen: 97.86 ng
RT: 5.57 min Scan# 305
Delta R.T. 0.00 min
Lab File: BF092677.D
Acq: 31 Jan 2017 12:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.0	46.1	69.1
63	34.2	23.8	35.6





#7

Phenol-d6

Concen: 106.95 ng

RT: 6.60 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Instrument :

BNA_F

ClientSampleId :

UST-3ARE

Tot Ion: 99 Resp: 1429925

Ion Ratio Lower Upper

99 100

42 22.1 15.6 23.4

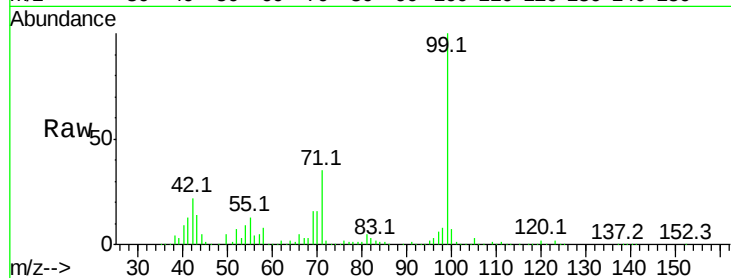
71 35.2 27.5 41.3

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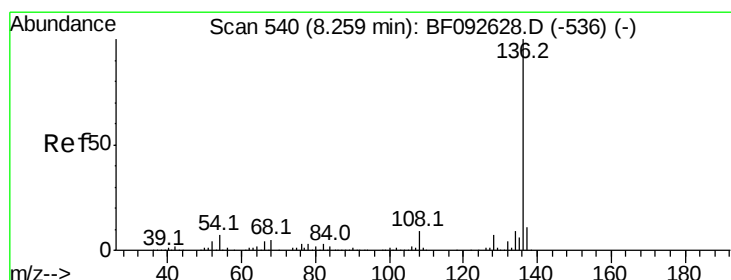
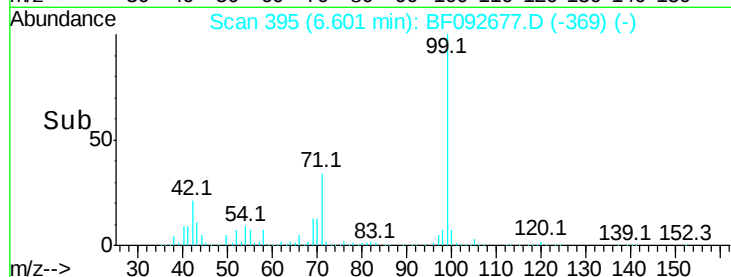
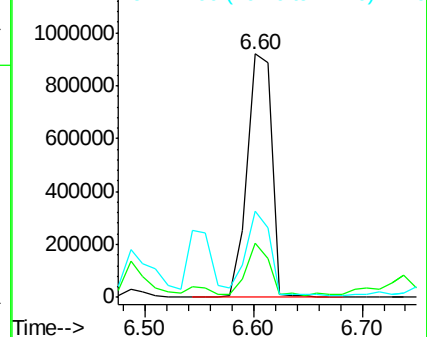


Abundance

Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.27 min Scan# 541

Delta R.T. 0.01 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Tgt Ion: 136 Resp: 252595

Ion Ratio Lower Upper

136 100

137 23.9 8.4 12.6#

54 70.6 4.5 6.7#

68 52.3 3.6 5.4#

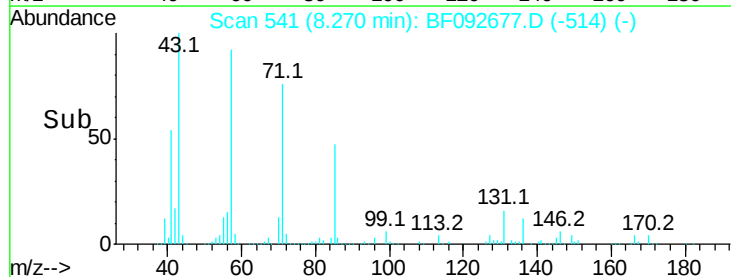
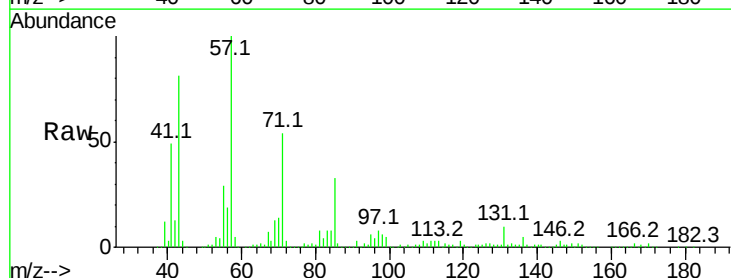
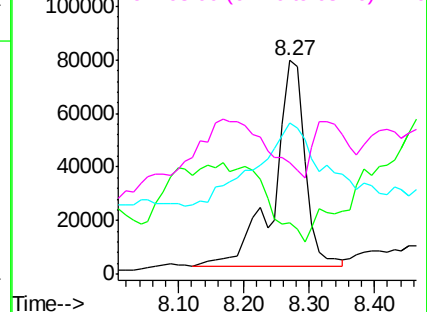
Abundance

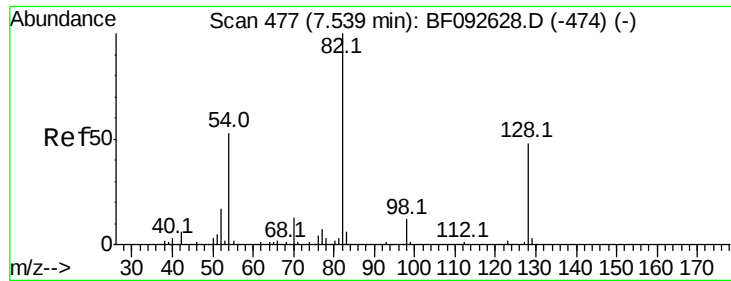
Ion 136.00 (135.70 to 136.70): E

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





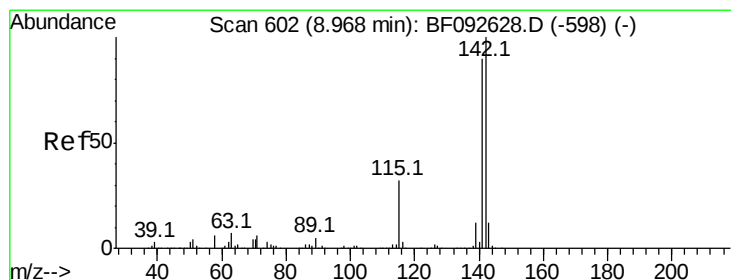
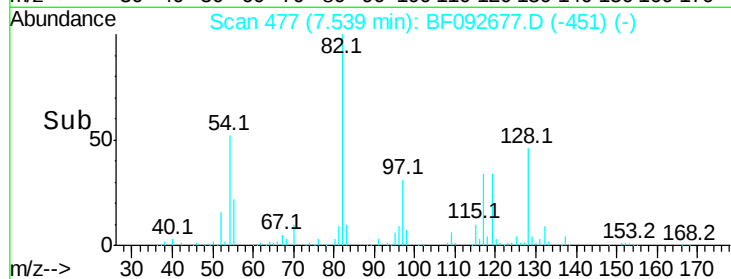
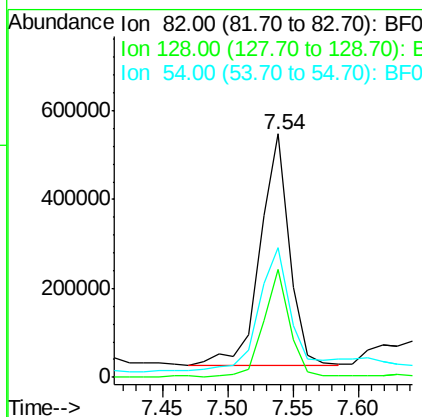
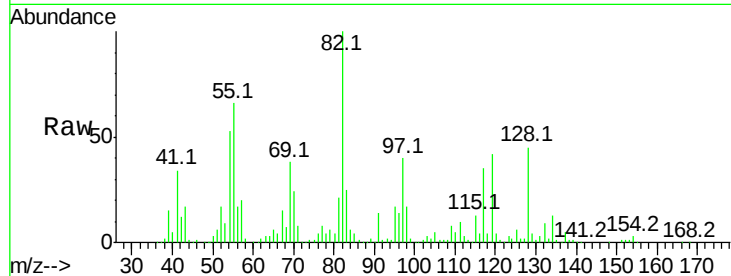
#23
 Nitrobenzene-d5
 Concen: 179.48 ng
 RT: 7.54 min Scan# 477
 Delta R.T. -0.00 min
 Lab File: BF092677.D
 Acq: 31 Jan 2017 12:12

Instrument :
 BNA_F
 ClientSampleId :
 UST-3ARE

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.5	34.6	52.0
54	53.1	39.5	59.3

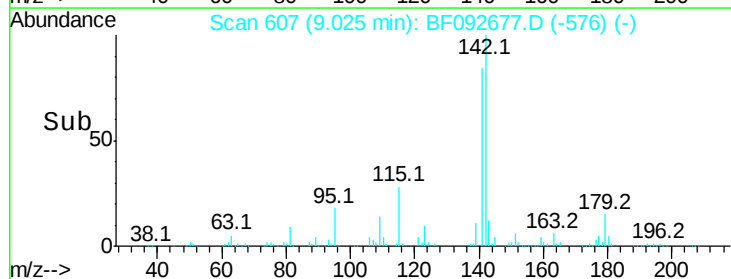
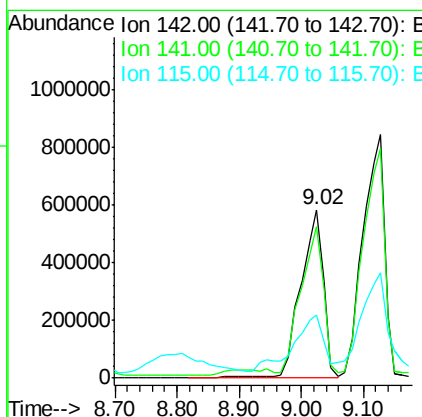
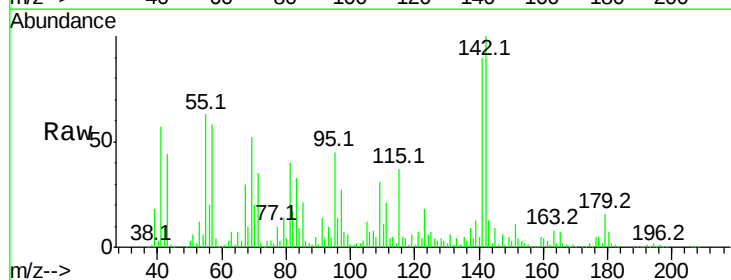
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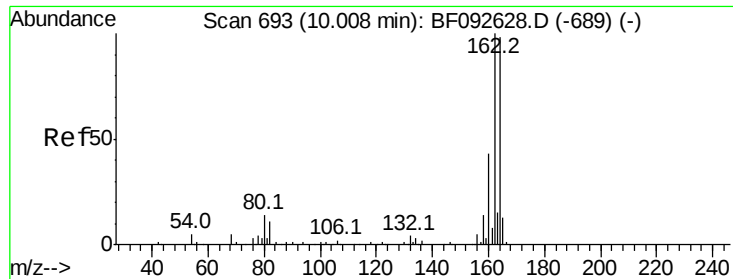
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#37
 2-Methylnaphthalene
 Concen: 176.23 ng
 RT: 9.02 min Scan# 607
 Delta R.T. 0.06 min
 Lab File: BF092677.D
 Acq: 31 Jan 2017 12:12

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.0	106.6
115	37.2	28.3	42.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.08 min Scan# 699

Delta R.T. 0.07 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Instrument :

BNA_F

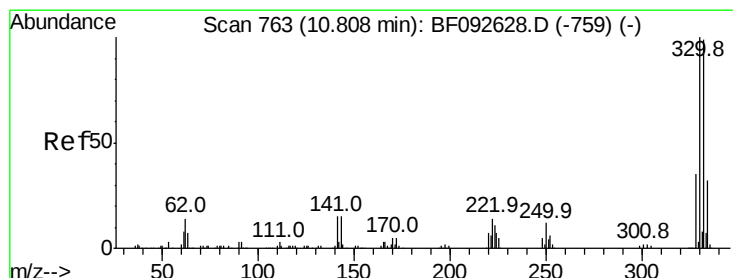
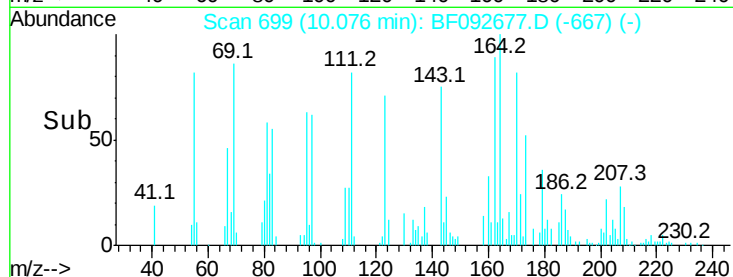
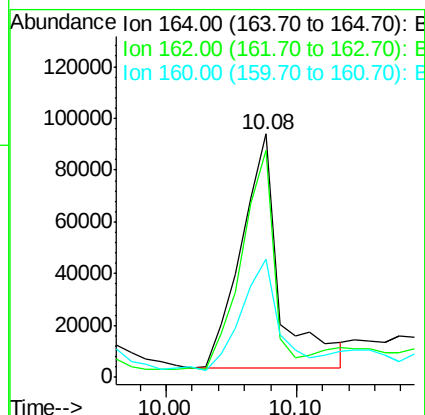
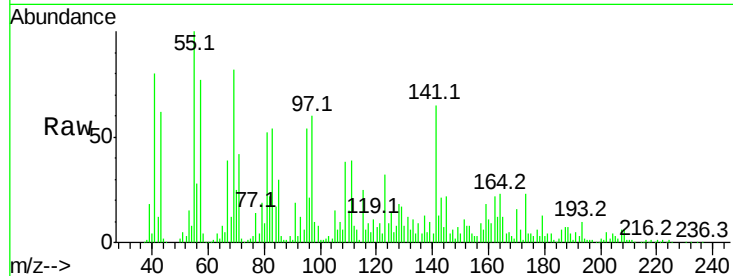
ClientSampleId :

UST-3ARE

Tot Ion:	164	Resp:	185713
Ion Ratio	Lower	Upper	
164	100		
162	93.5	80.2	120.2
160	48.6	36.9	55.3

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#41

2,4,6-Tribromophenol

Concen: 61.47 ng

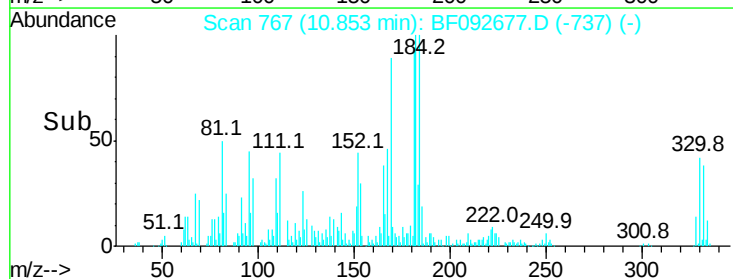
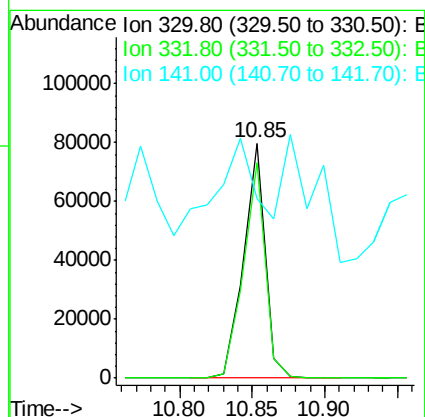
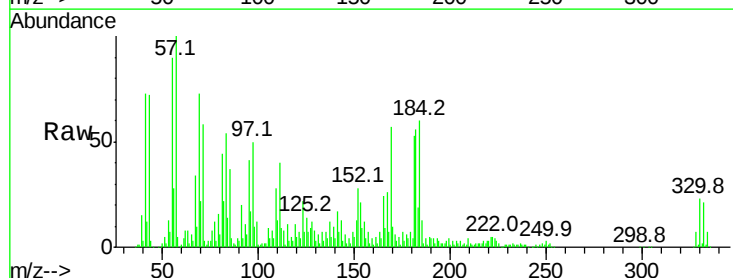
RT: 10.85 min Scan# 767

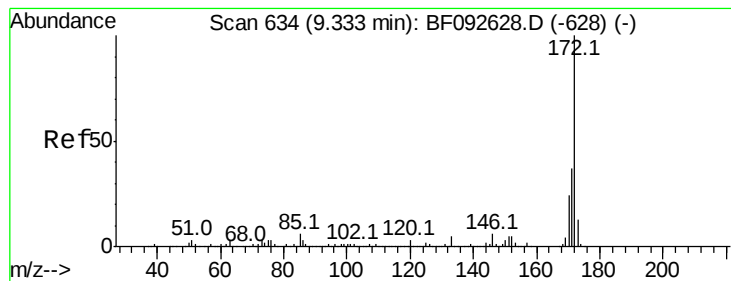
Delta R.T. 0.05 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Tgt Ion:	330	Resp:	82560
Ion Ratio	Lower	Upper	
330	100		
332	92.6	77.4	116.2
141	73.9	34.1	51.1#





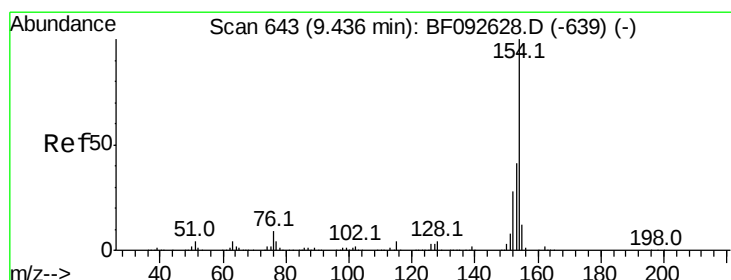
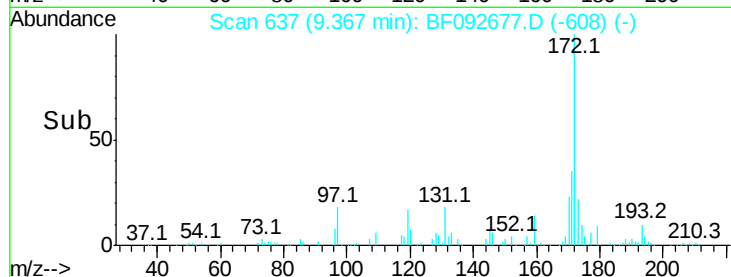
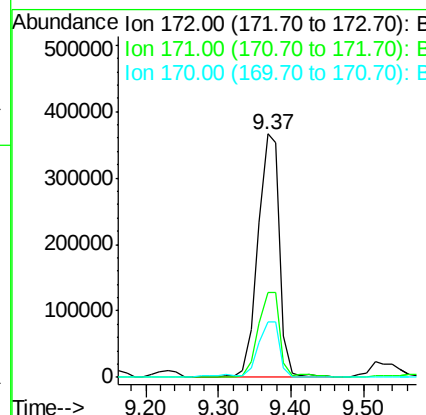
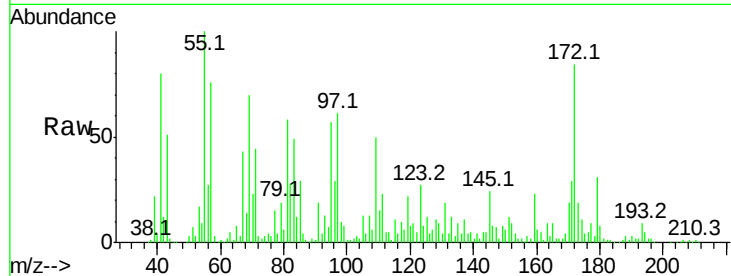
#44
2-Fluorobiphenyl
Concen: 74.85 ng
RT: 9.37 min Scan# 637
Delta R.T. 0.03 min
Lab File: BF092677.D
Acq: 31 Jan 2017 12:12

Instrument :
BNA_F
ClientSampleId :
UST-3ARE

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.4	44.0
170	22.9	20.2	30.4

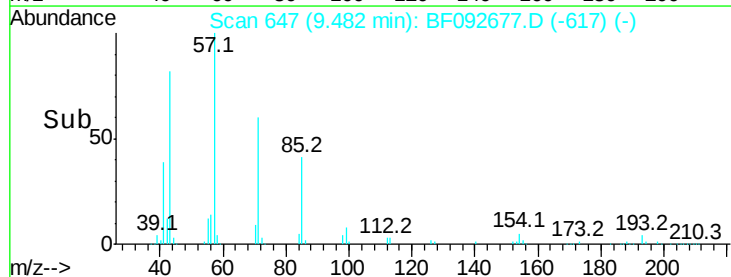
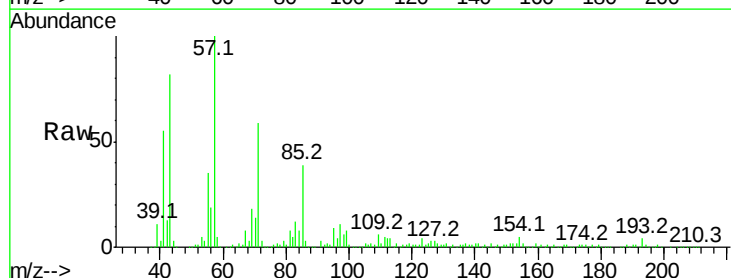
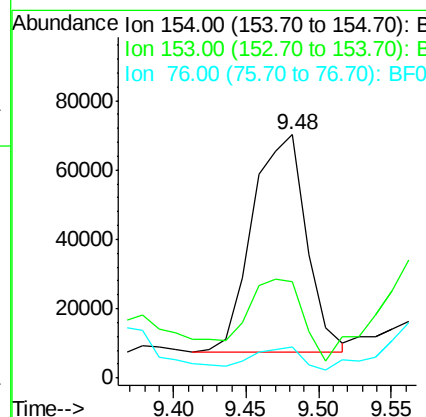
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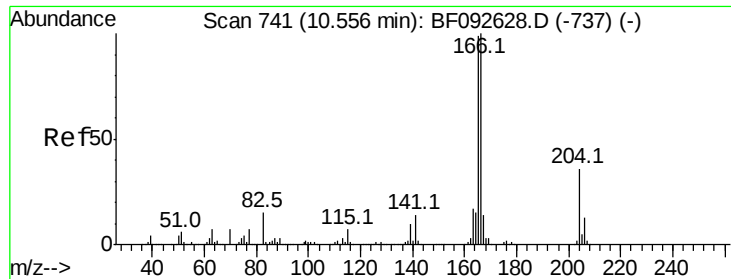
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#45
1,1'-Biphenyl
Concen: 11.96 ng
RT: 9.48 min Scan# 647
Delta R.T. 0.05 min
Lab File: BF092677.D
Acq: 31 Jan 2017 12:12

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.9	60.9
76	12.6	0.0	30.5





#57

Fluorene

Concen: 26.79 ng/mL

RT: 10.61 min Scan# 746

Delta R.T. 0.06 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Instrument :

BNA_F

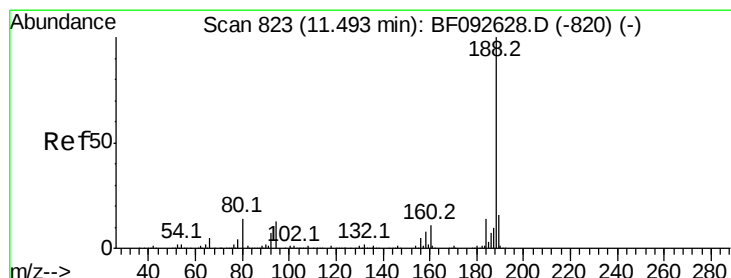
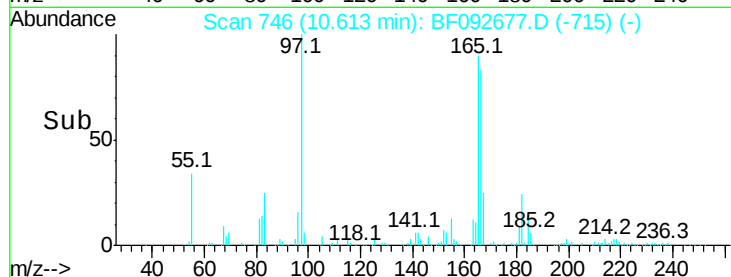
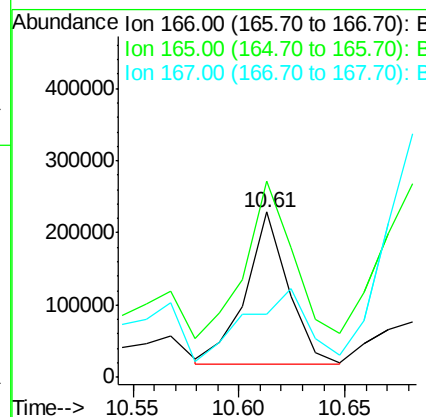
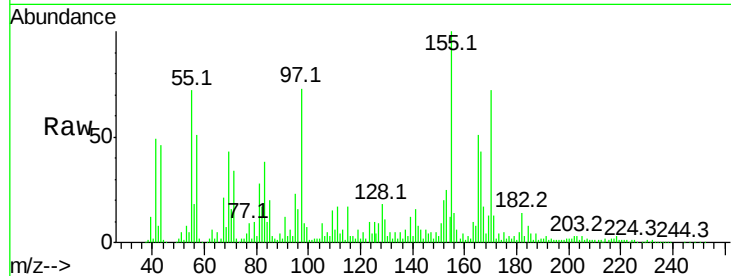
ClientSampleId :

UST-3ARE

Tot Ion	Ratio	Lower	Upper
166	100		
165	118.4	77.8	116.8#
167	38.4	10.8	16.2#

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#63

Phenanthrene-d10

Concen: 20.00 ng/mL

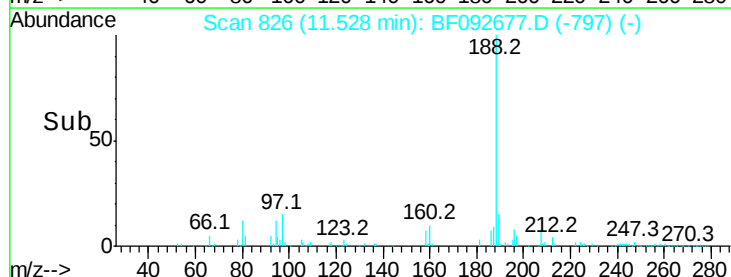
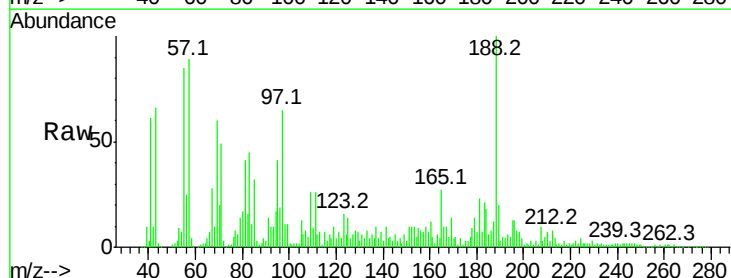
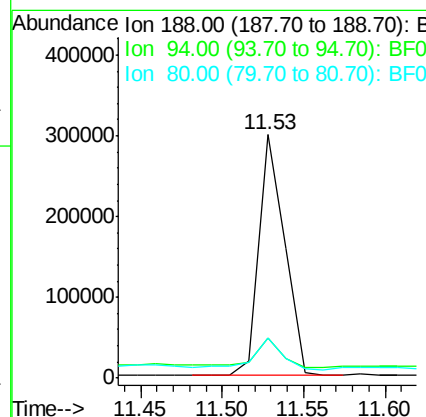
RT: 11.53 min Scan# 826

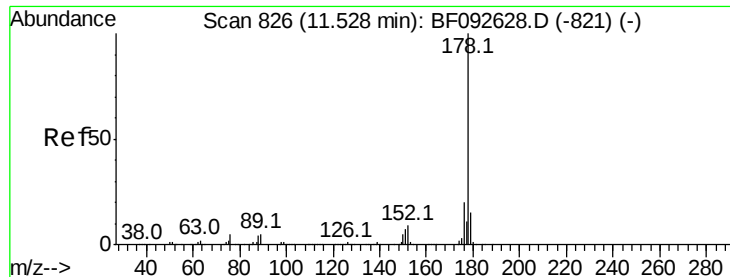
Delta R.T. 0.03 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Tgt Ion	Ratio	Lower	Upper
188	100		
94	16.5	10.0	15.0#
80	16.7	11.2	16.8





#70

Phenanthrene

Concen: 71.73 ng

RT: 11.56 min Scan# 829

Delta R.T. 0.03 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Instrument :

BNA_F

ClientSampleId :

UST-3ARE

Tot Ion:178 Resp: 1340564

Ion Ratio Lower Upper

178 100

176 20.1 16.6 25.0

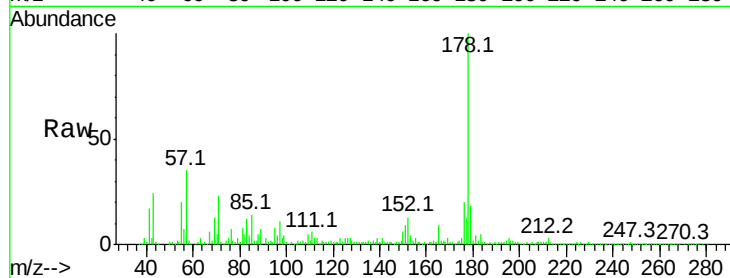
179 18.2 12.8 19.2

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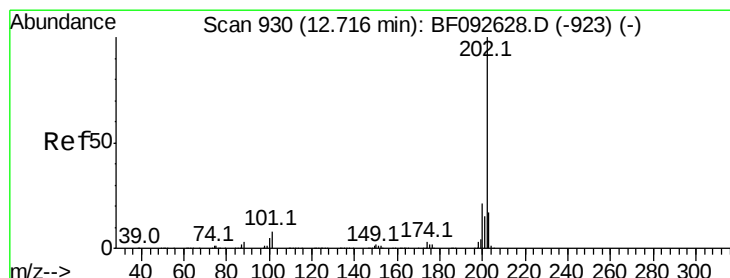
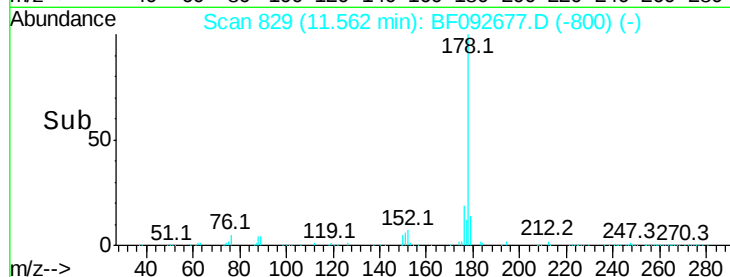
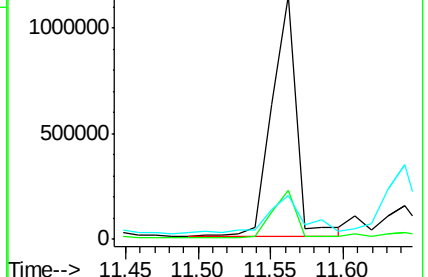
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 7.08 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.01 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

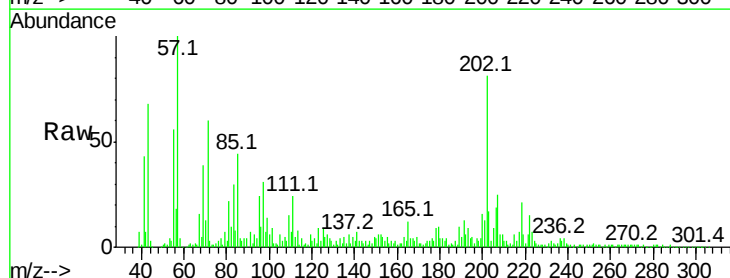
Tgt Ion:202 Resp: 136460

Ion Ratio Lower Upper

202 100

101 11.4 0.0 34.6

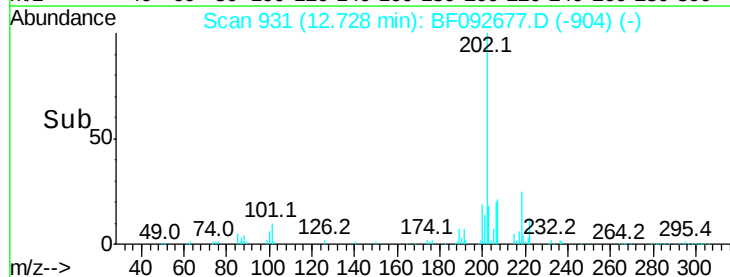
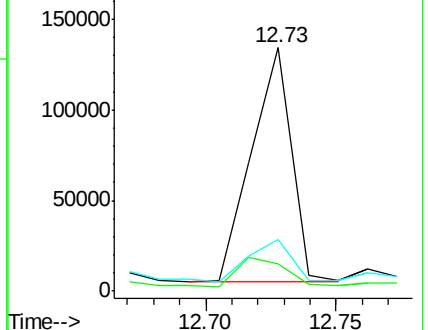
203 21.4 0.0 38.7

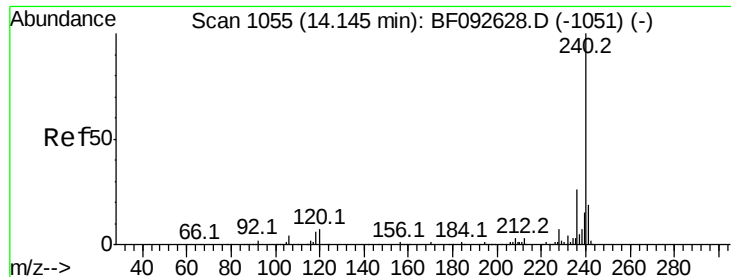


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.13 min Scan# 1054

Delta R.T. -0.01 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Instrument :

BNA_F

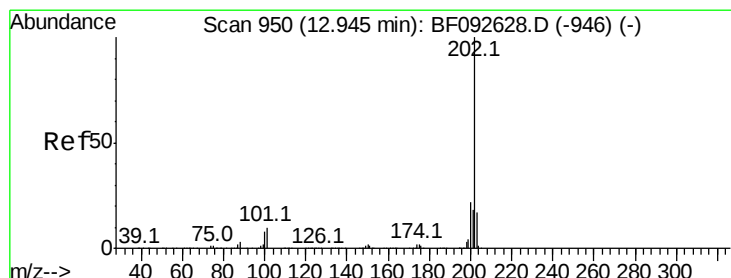
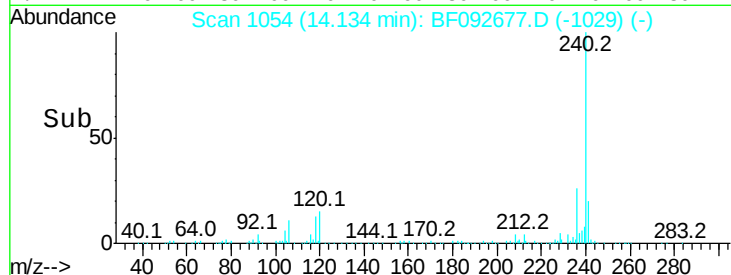
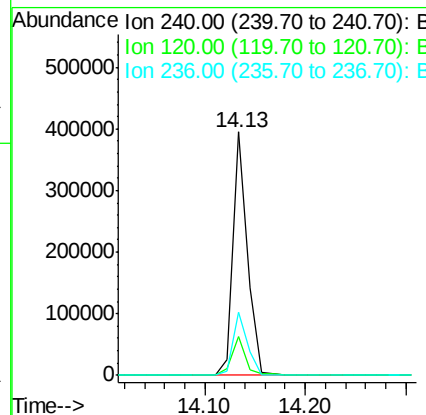
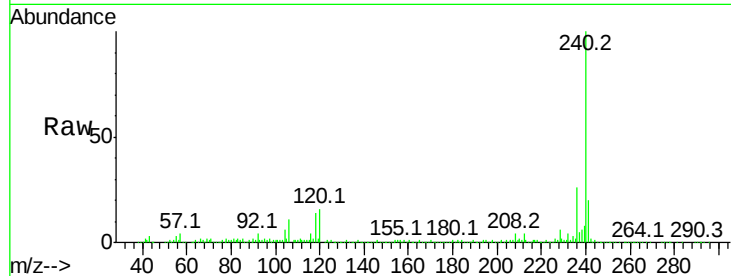
ClientSampleId :

UST-3ARE

Tot Ion:	240	Resp:	391516
Ion Ratio	Lower	Upper	
240	100		
120	15.7	12.9	19.3
236	26.0	20.9	31.3

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#77

Pyrene

Concen: 6.98 ng m

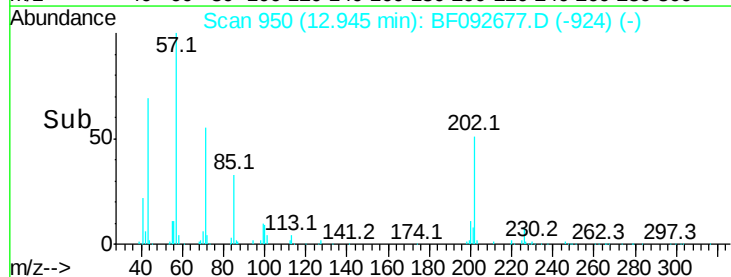
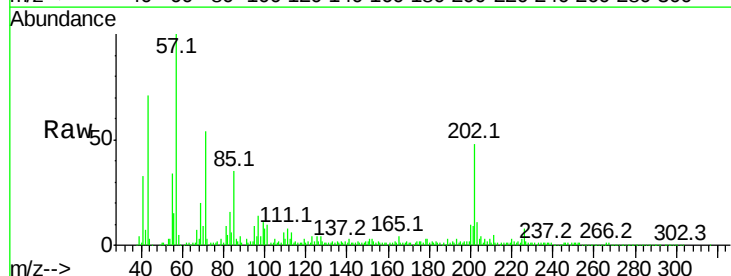
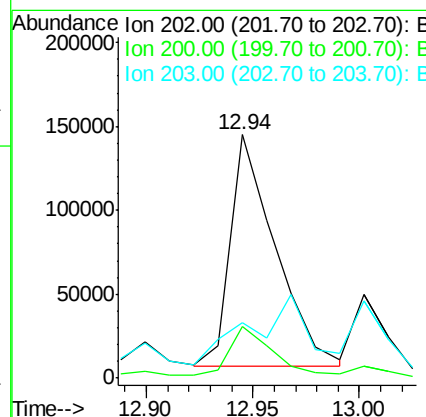
RT: 12.94 min Scan# 950

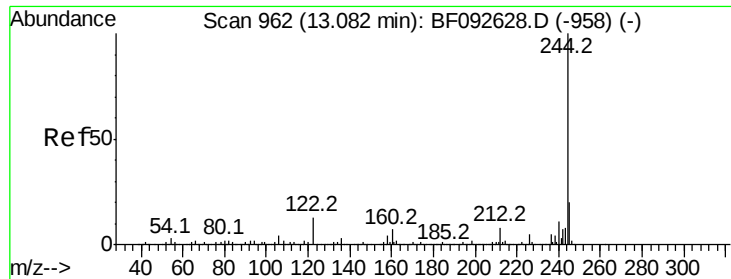
Delta R.T. -0.00 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Tgt Ion:	202	Resp:	204491
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.7	26.5
203	22.6	14.7	22.1#





#78

Terphenyl-d14

Concen: 63.34 ng

RT: 13.09 min Scan# 963

Delta R.T. 0.01 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

Instrument :

BNA_F

ClientSampleId :

UST-3ARE

Tot Ion:244 Resp: 1055433

Ion Ratio Lower Upper

244 100

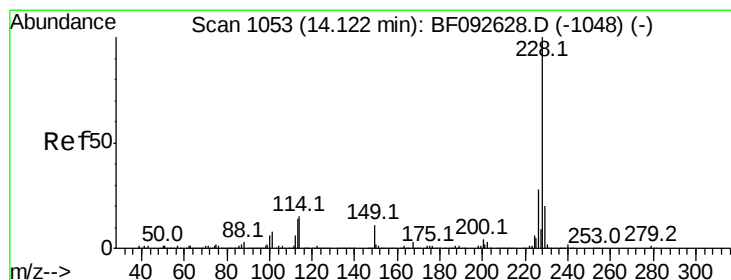
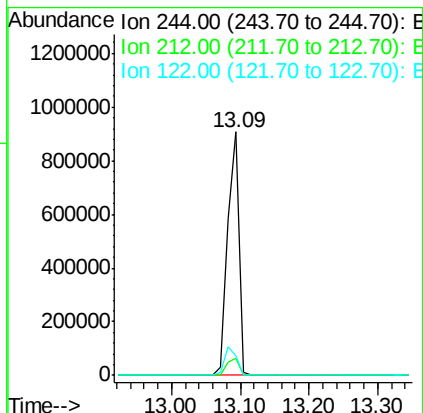
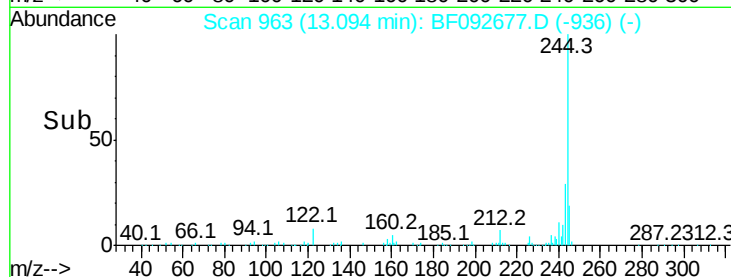
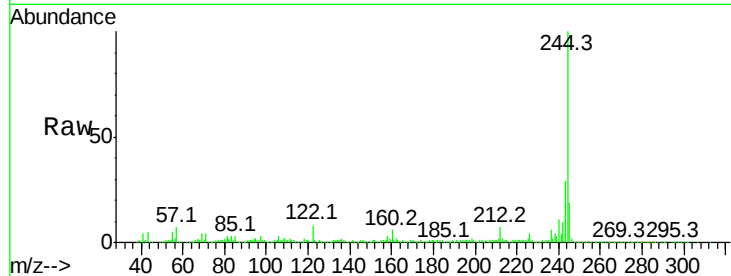
212 7.0 6.2 9.2

122 8.2 11.4 17.2#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 2.40 ng

RT: 14.12 min Scan# 1053

Delta R.T. -0.00 min

Lab File: BF092677.D

Acq: 31 Jan 2017 12:12

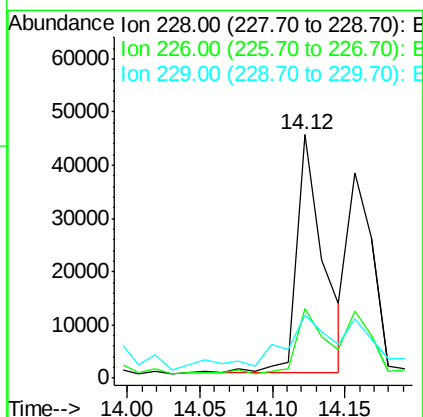
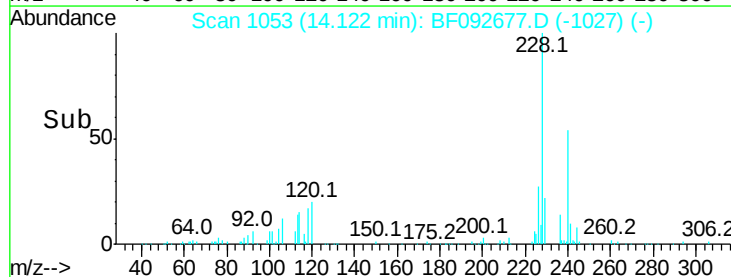
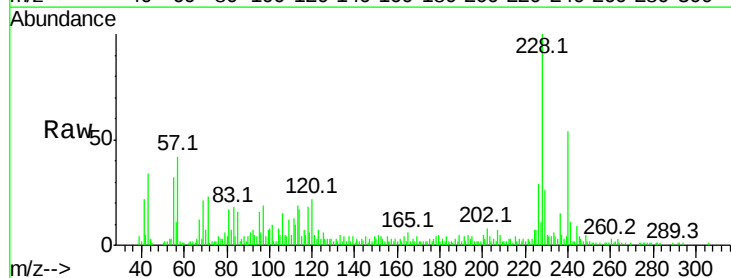
Tgt Ion:228 Resp: 57396

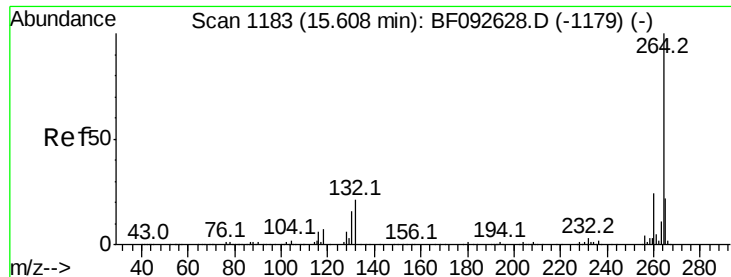
Ion Ratio Lower Upper

228 100

226 28.6 22.4 33.6

229 26.1 16.2 24.4#





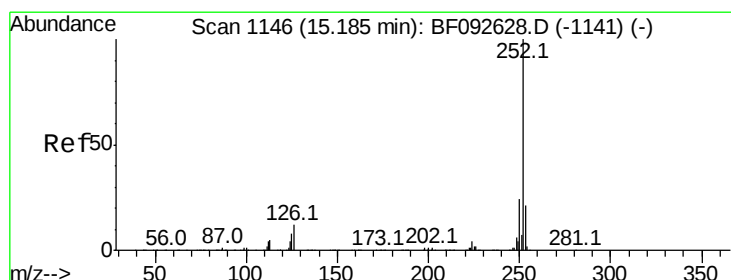
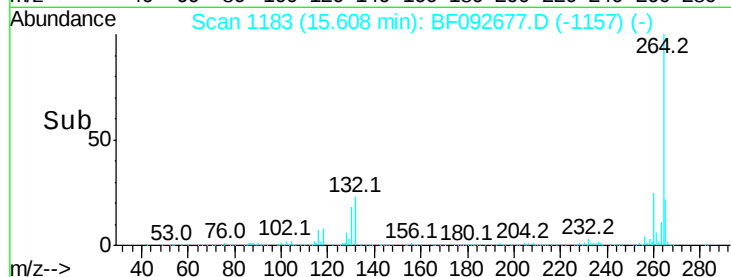
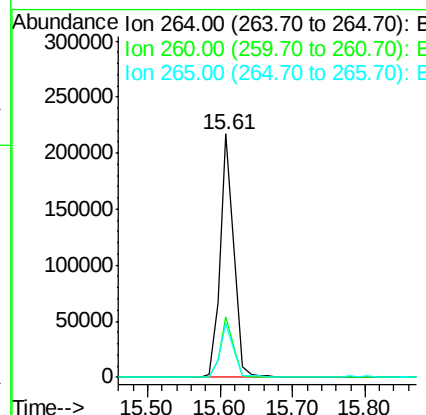
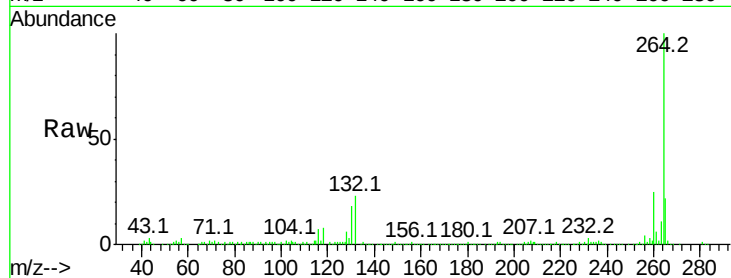
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.61 min Scan# 1183
Delta R.T. -0.00 min
Lab File: BF092677.D
Acq: 31 Jan 2017 12:12

Instrument :
BNA_F
ClientSampleId :
UST-3ARE

Tot Ion	Ratio	Resp	Lower	Upper
264	100	282150		
260	24.7	19.2	28.8	
265	22.1	17.4	26.0	

Manual Integrations
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#87
Benzo(b)fluoranthene
Concen: 2.84 ng m
RT: 15.17 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF092677.D
Acq: 31 Jan 2017 12:12

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	52766		
253	24.0	18.2	27.4	
125	15.7	9.8	14.6	

