

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051716\
 Data File : BF087125.D
 Acq On : 18 May 2016 2:19
 Operator : UM/SJ
 Sample : H3085-01
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VITALE-FILL-CSPH3-10K

Manual Integrations
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Quant Time: May 18 12:07:13 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	131950	20.00	ng	-0.01
21) Naphthalene-d8	7.87	136	521422	20.00	ng	-0.02
38) Acenaphthene-d10	9.62	164	252095	20.00	ng	-0.02
63) Phenanthrene-d10	11.11	188	490866	20.00	ng	-0.01
75) Chrysene-d12	13.74	240	376265	20.00	ng	-0.02
86) Perylene-d12	15.09	264	293020	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	1206202	153.65	ng	-0.01
7) Phenol-d6	6.26	99	1524250	144.77	ng	-0.02
23) Nitrobenzene-d5	7.16	82	950683	90.87	ng	-0.02
41) 2,4,6-Tribromophenol	10.42	330	425118	152.60	ng	-0.02
44) 2-Fluorobiphenyl	8.96	172	1498868	98.47	ng	-0.02
78) Terphenyl-d14	12.70	244	1644685	98.88	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.90	128	87020	3.42	ng	99
49) Dimethylphthalate	9.36	163	183775	9.56	ng	100
51) Acenaphthene	9.66	154	101126	6.61	ng	99
54) Dibenzofuran	9.84	168	53779	2.72	ng	95
57) Fluorene	10.17	166	76246	4.79	ng	99
70) Phenanthrene	11.13	178	891126	33.47	ng	100
71) Anthracene	11.18	178	175919	6.53	ng	96
72) Carbazole	11.35	167	146562	5.96	ng	98
74) Fluoranthene	12.31	202	1010178	37.87	ng	99
77) Pyrene	12.54	202	827355	30.44	ng	99
80) Benzo(a)anthracene	13.73	228	304831	14.01	ng	99
82) Chrysene	13.76	228	313009	14.87	ng	98
85) Indeno(1,2,3-cd)pyrene	16.32	276	134744	7.29	ng	92
87) Benzo(b)fluoranthene	14.72	252	385261m	19.82	ng	
88) Benzo(k)fluoranthene	14.74	252	65375m	4.52	ng	
89) Benzo(a)pyrene	15.04	252	216211m	13.31	ng	
90) Dibenzo(a,h)anthracene	16.33	278	30381m	2.22	ng	
91) Benzo(g,h,i)perylene	16.70	276	142786m	10.33	ng	

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

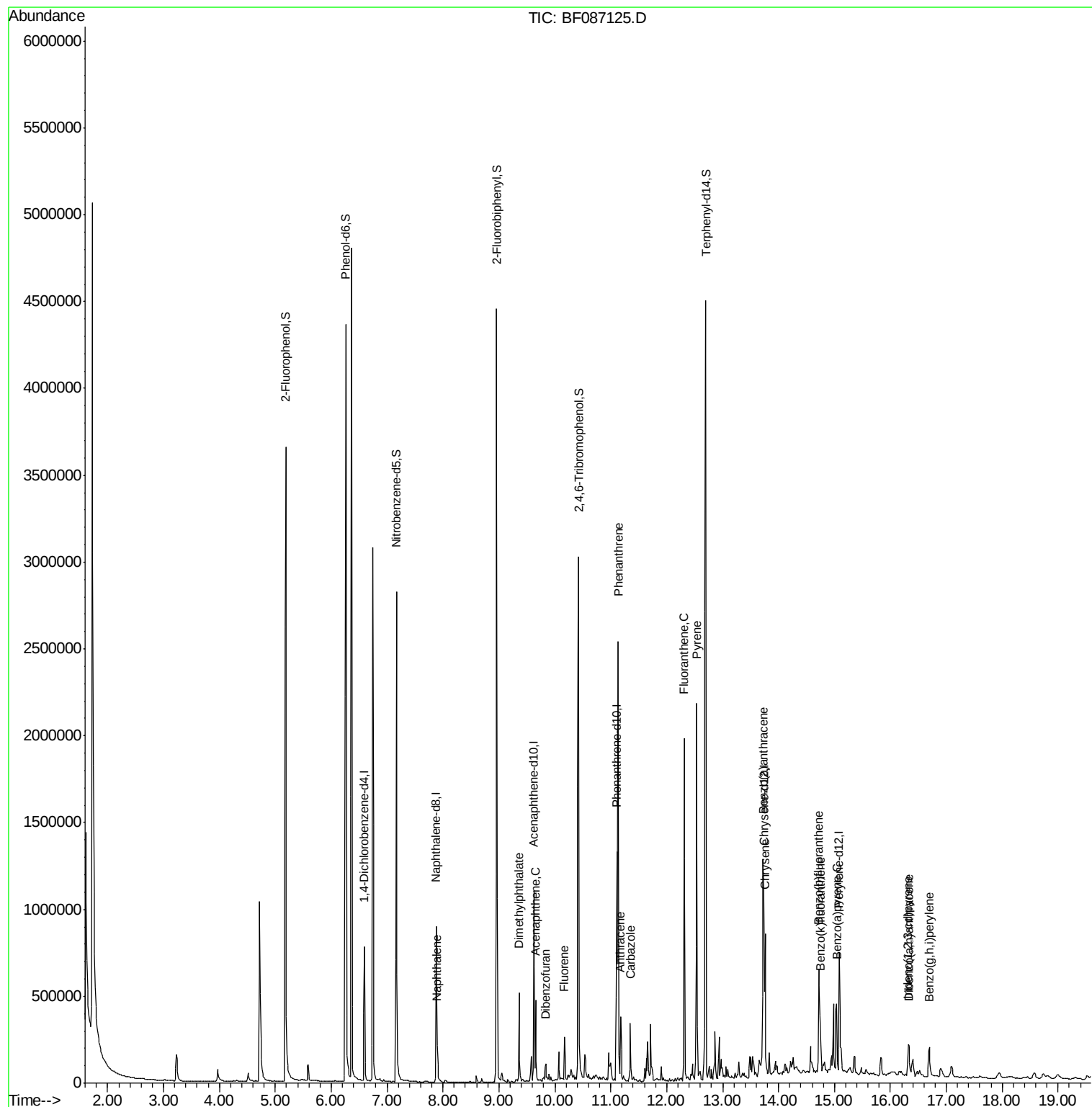
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051716\
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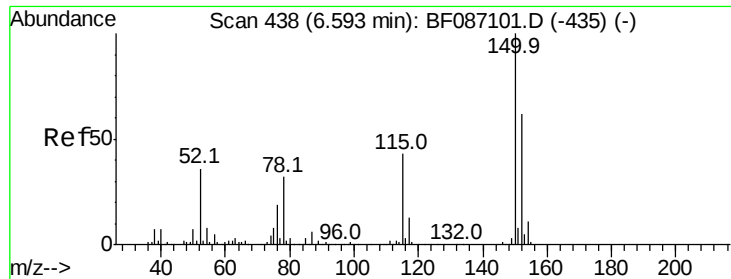
Instrument :
BNA_F
ClientSampleId :
VITALE-FILL-CSPH3-10K

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#1

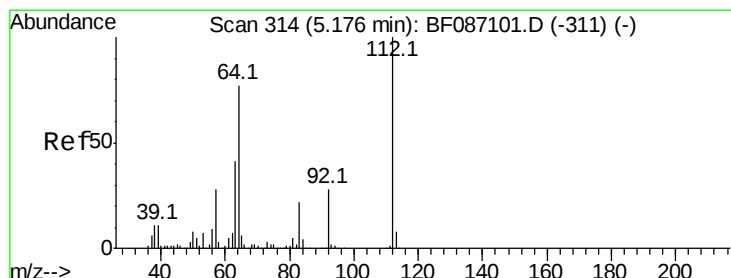
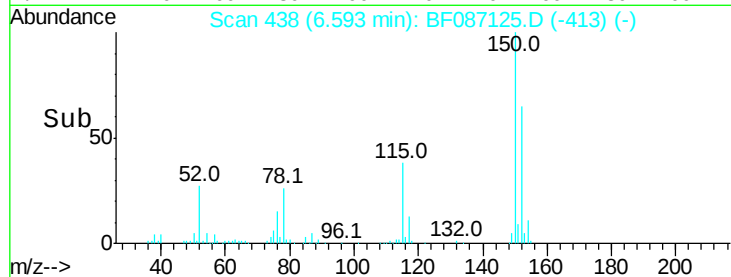
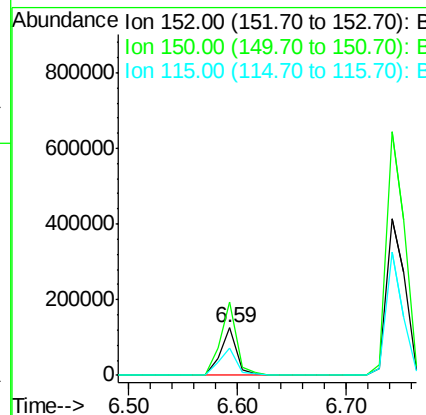
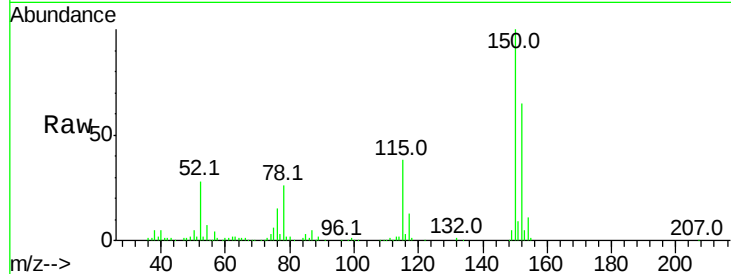
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.59 min Scan# 438
Delta R.T. -0.01 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Instrument :
BNA_F
ClientSampleId :
VITALE-FILL-CSPH3-10K

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	125.8	188.6
115	58.5	51.5	77.3

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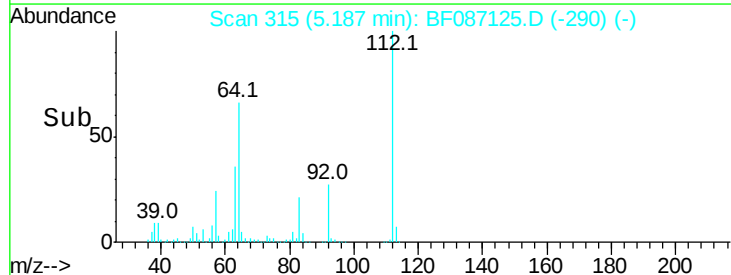
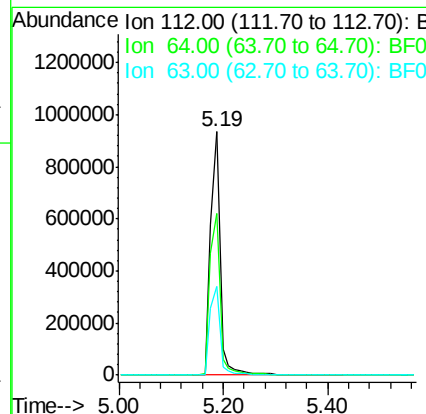
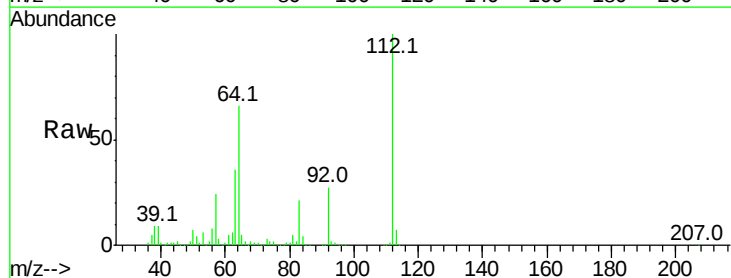
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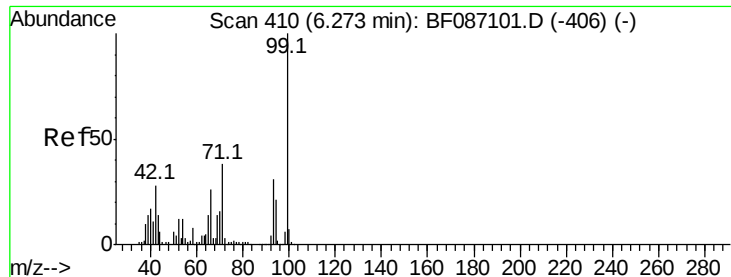


#5

2-Fluorophenol
Concen: 153.65 ng
RT: 5.19 min Scan# 315
Delta R.T. -0.01 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.4	52.1	78.1
63	36.4	25.7	38.5





#7

Phenol-d6

Concen: 144.77 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Instrument :

BNA_F

ClientSampleId :

VITALE-FILL-CSPH3-10K

Tot Ion: 99 Resp: 1524250

Ion Ratio Lower Upper

99 100

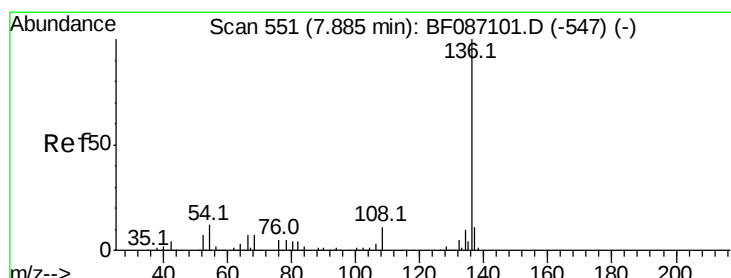
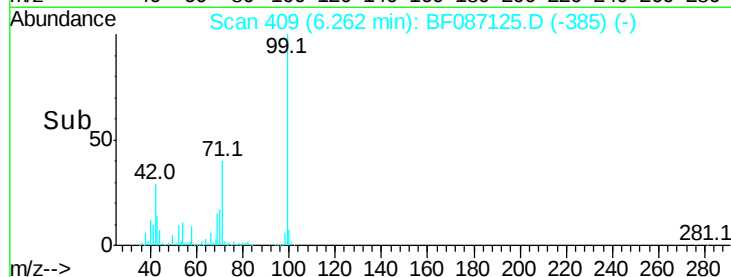
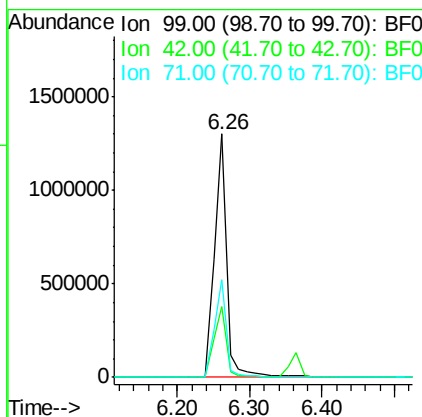
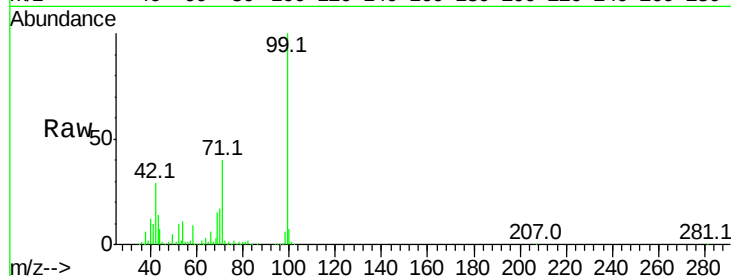
42 29.3 13.6 20.4#

71 39.9 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.87 min Scan# 550

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Tgt Ion: 136 Resp: 521422

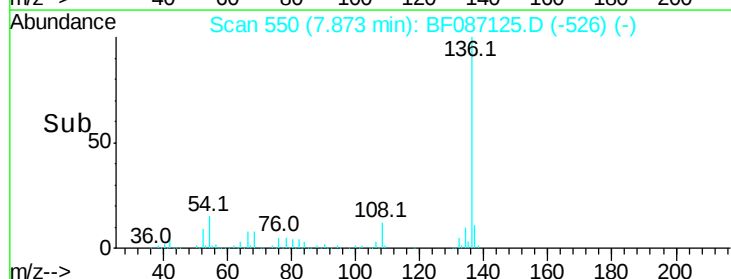
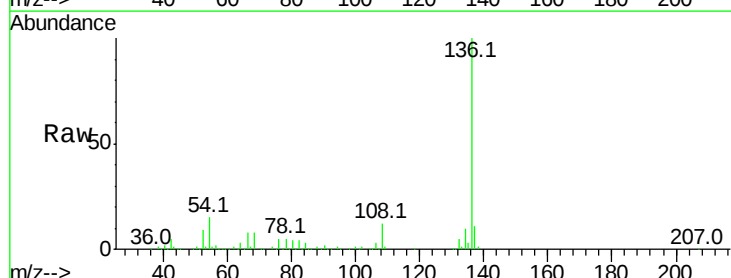
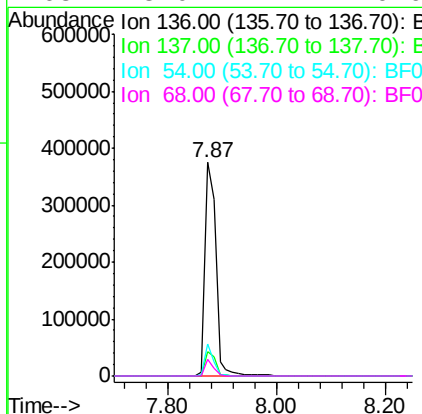
Ion Ratio Lower Upper

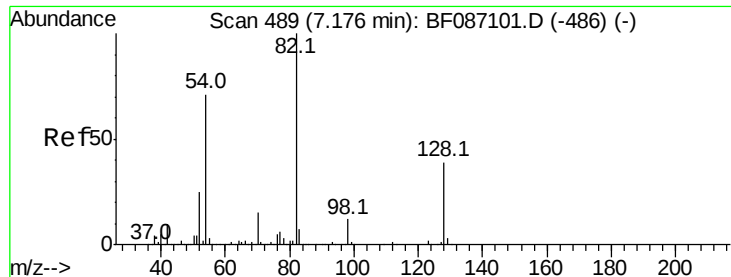
136 100

137 11.2 8.8 13.2

54 15.2 5.0 7.4#

68 8.0 4.4 6.6#





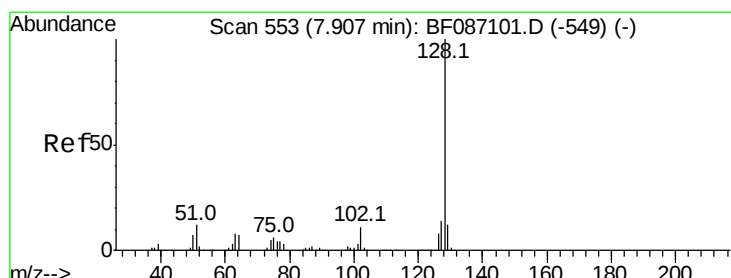
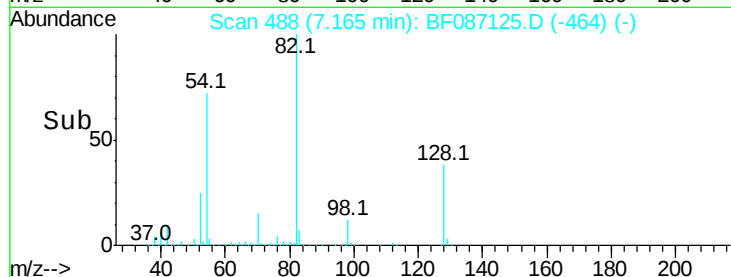
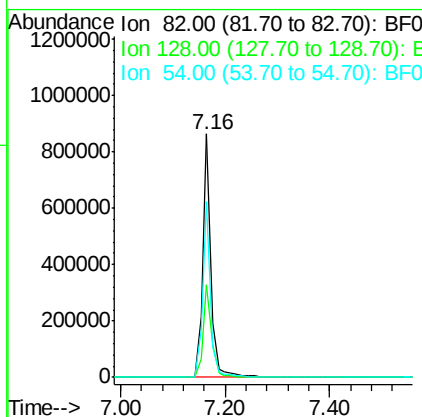
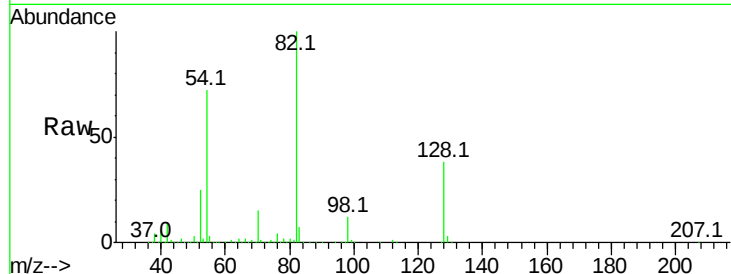
#23
 Nitrobenzene-d5
 Concen: 90.87 ng
 RT: 7.16 min Scan# 488
 Delta R.T. -0.02 min
 Lab File: BF087125.D
 Acq: 18 May 2016 2:19

Instrument :
 BNA_F
 ClientSampleId :
 VITALE-FILL-CSPH3-10K

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	38.1	40.6	61.0#	
54	72.3	38.1	57.1#	

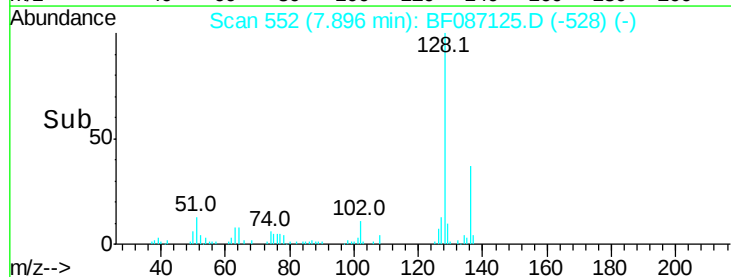
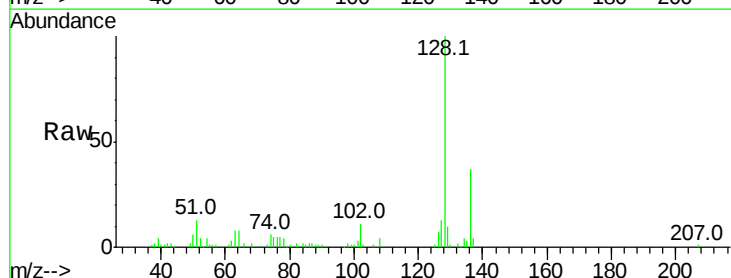
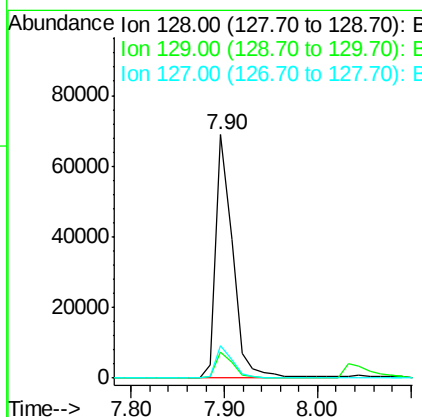
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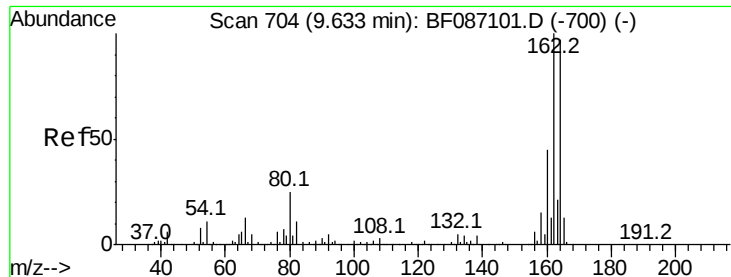
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#31
 Naphthalene
 Concen: 3.42 ng
 RT: 7.90 min Scan# 552
 Delta R.T. -0.02 min
 Lab File: BF087125.D
 Acq: 18 May 2016 2:19

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.5	8.6	13.0	
127	13.3	10.8	16.2	





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.62 min Scan# 703

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Instrument :

BNA_F

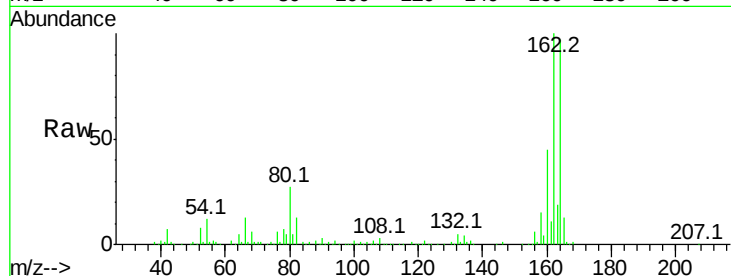
ClientSampleId :

VITALE-FILL-CSPH3-10K

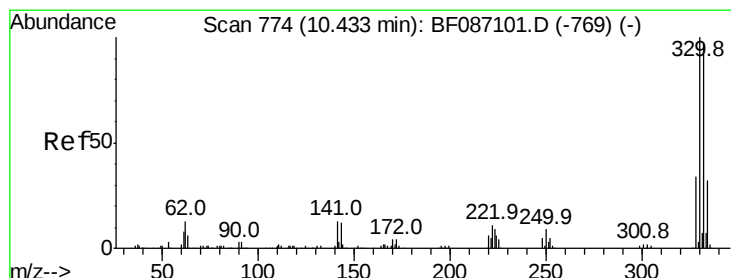
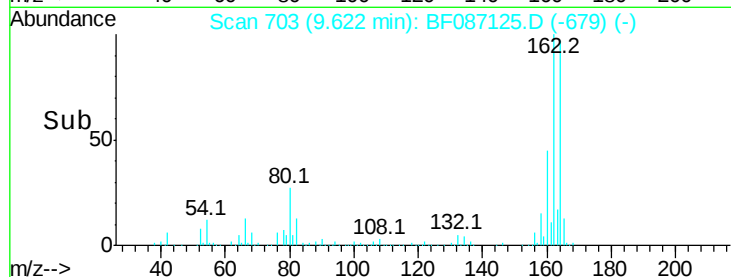
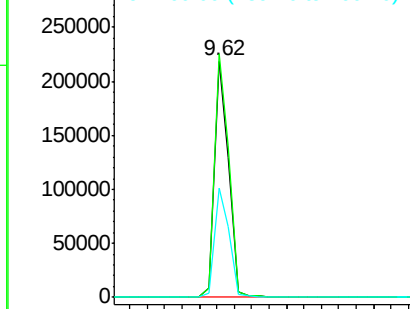
Tot Ion:	164	Resp:	252095
Ion Ratio	Lower	Upper	
164	100		
162	103.2	82.8	124.2
160	46.1	36.9	55.3

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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: 152.60 ng

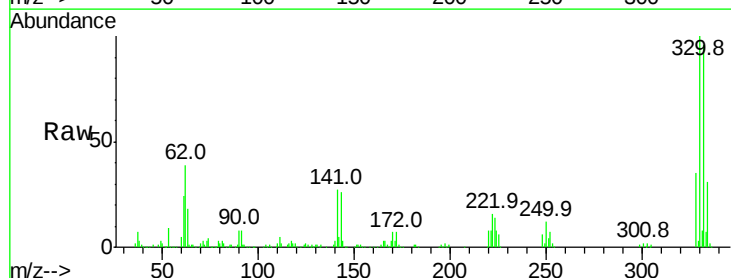
RT: 10.42 min Scan# 773

Delta R.T. -0.02 min

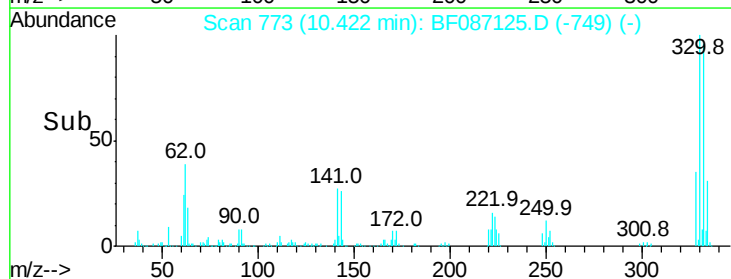
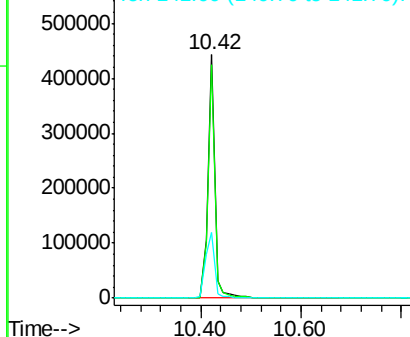
Lab File: BF087125.D

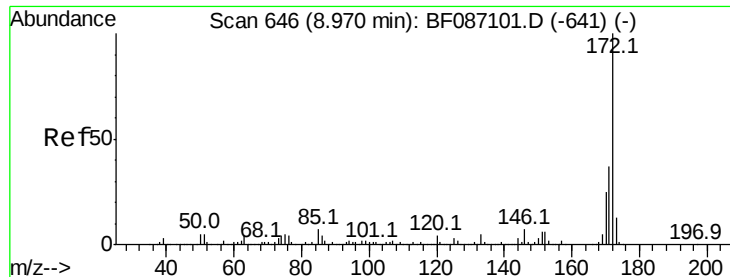
Acq: 18 May 2016 2:19

Tgt Ion:	330	Resp:	425118
Ion Ratio	Lower	Upper	
330	100		
332	96.0	79.0	118.4
141	35.6	31.2	46.8



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: 98.47 ng

RT: 8.96 min Scan# 645

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Instrument :

BNA_F

ClientSampleId :

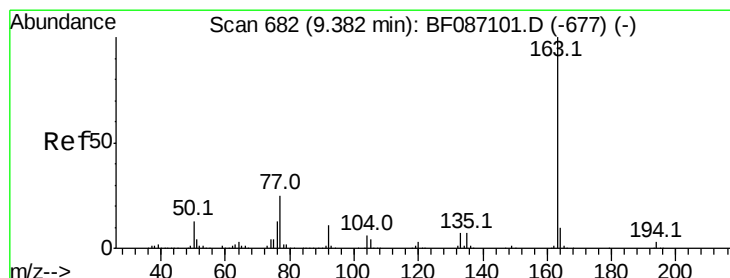
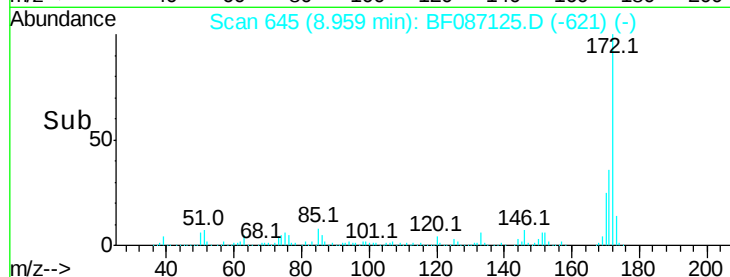
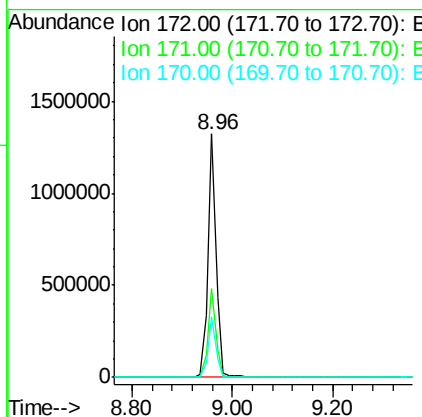
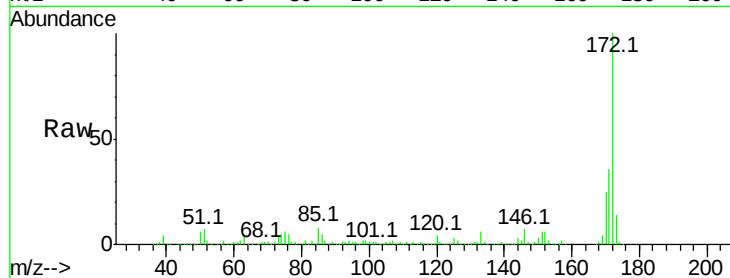
VITALE-FILL-CSPH3-10K

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Tot Ion:	172	Resp:	1498868
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.6
170	24.8	19.8	29.8



#49

Dimethylphthalate

Concen: 9.56 ng

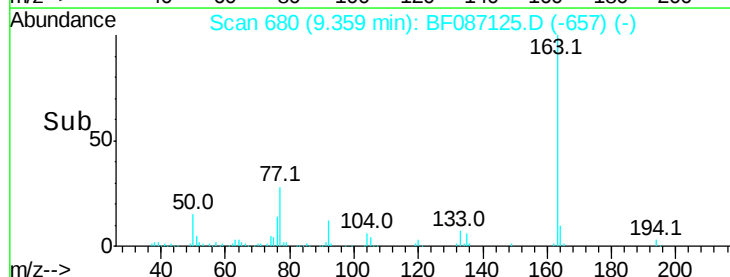
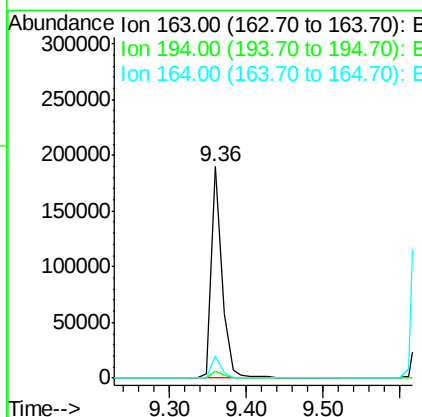
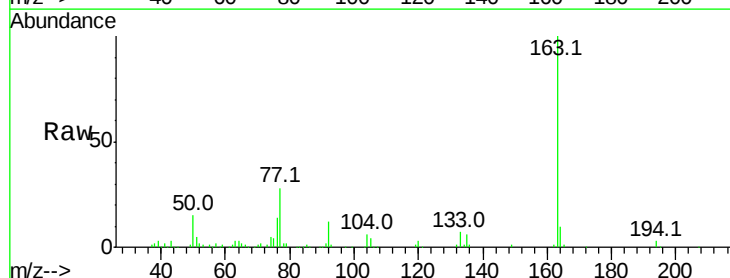
RT: 9.36 min Scan# 680

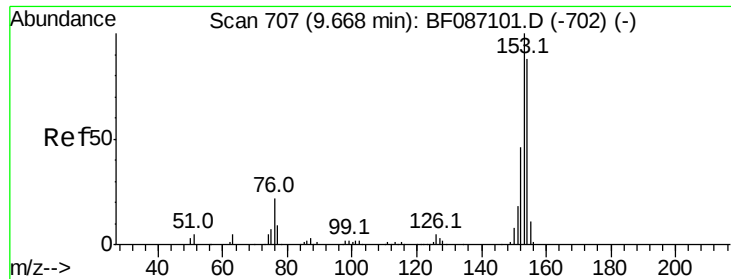
Delta R.T. -0.03 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Tgt Ion:	163	Resp:	183775
Ion	Ratio	Lower	Upper
163	100		
194	2.9	2.6	4.0
164	10.4	8.2	12.4





#51

Acenaphthene

Concen: 6.61 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Instrument :

BNA_F

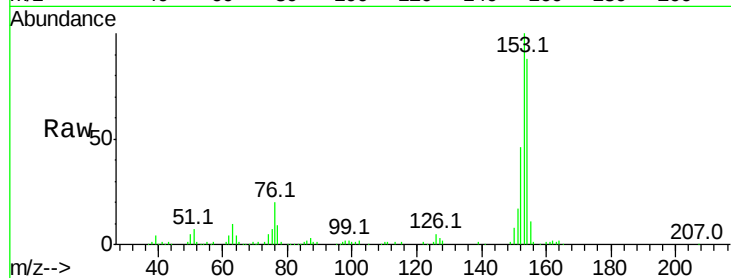
ClientSampleId :

VITALE-FILL-CSPH3-10K

Tot Ion:	154	Resp:	101126
Ion Ratio	Lower	Upper	
154	100		
153	113.0	89.8	134.6
152	52.3	43.4	65.0

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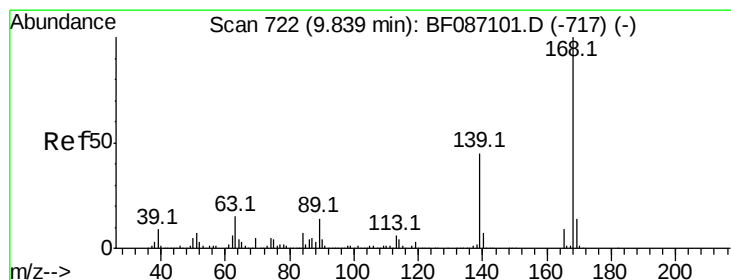
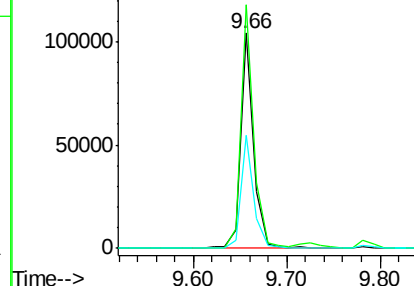
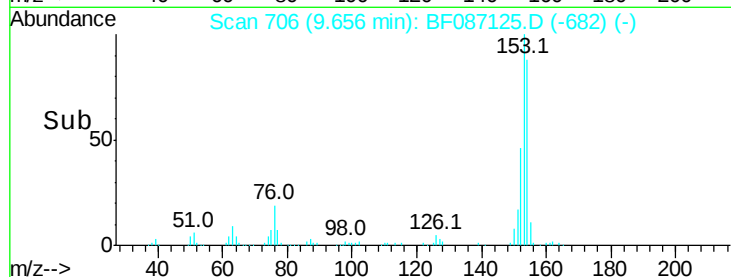
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.72 ng

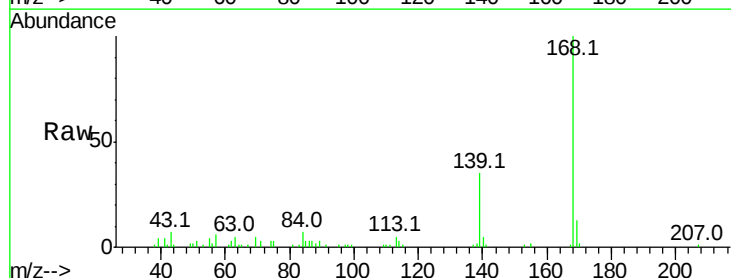
RT: 9.84 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

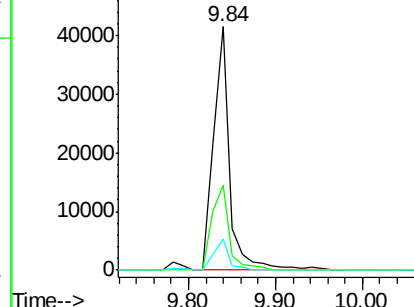
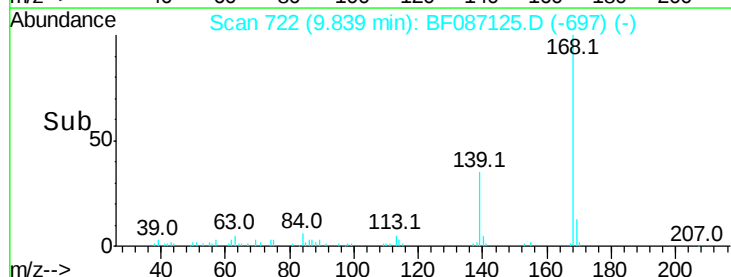
Tgt Ion:	168	Resp:	53779
Ion Ratio	Lower	Upper	
168	100		
139	35.0	31.4	47.0
169	13.0	10.7	16.1

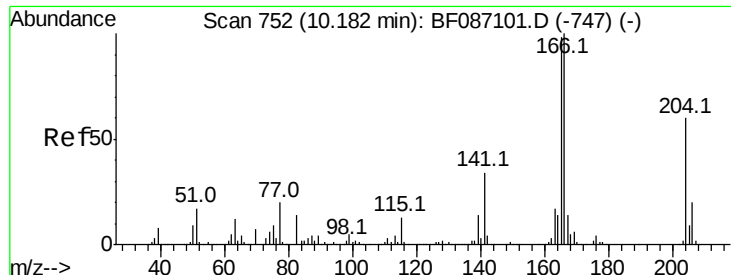


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 4.79 ng

RT: 10.17 min Scan# 751

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Instrument :

BNA_F

ClientSampleId :

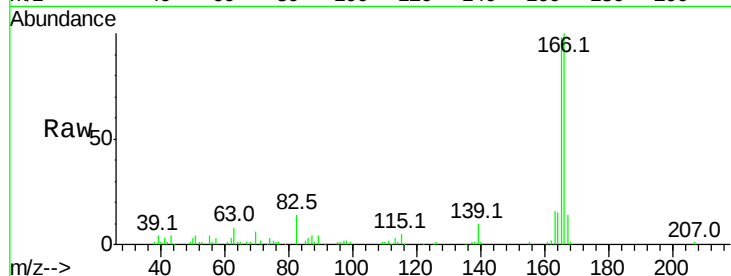
VITALE-FILL-CSPH3-10K

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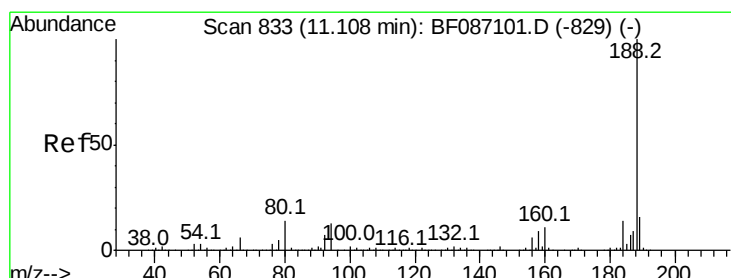
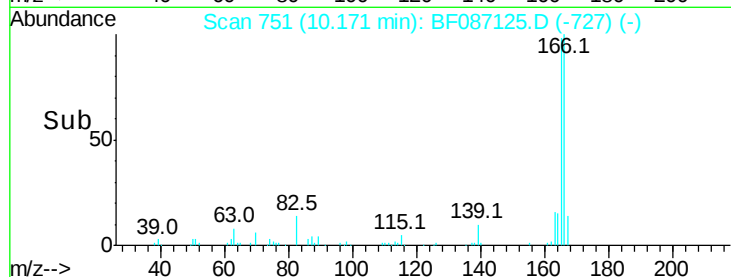
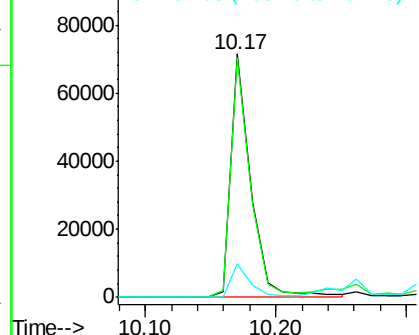
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Tot Ion:	166	Resp:	76246
Ion Ratio	Lower	Upper	
166	100		
165	98.3	79.0	118.6
167	13.7	10.6	15.8



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

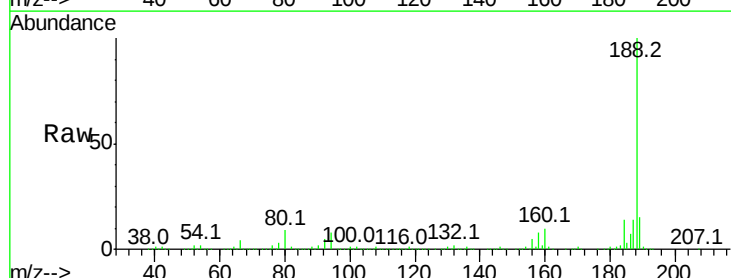
RT: 11.11 min Scan# 833

Delta R.T. -0.01 min

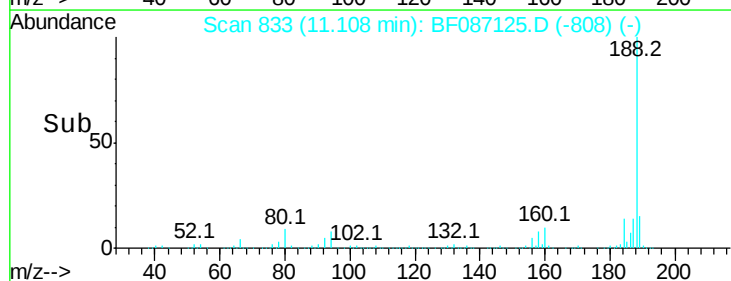
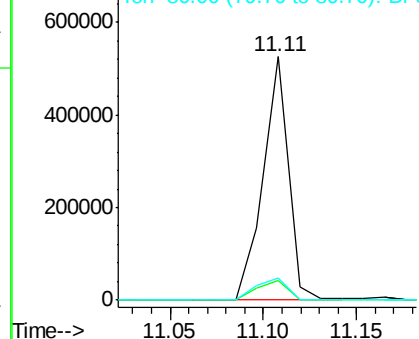
Lab File: BF087125.D

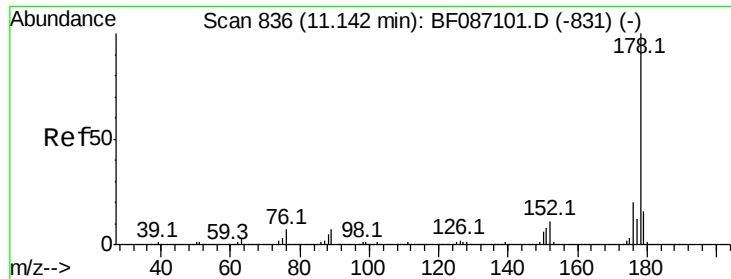
Acq: 18 May 2016 2:19

Tgt Ion:	188	Resp:	490866
Ion Ratio	Lower	Upper	
188	100		
94	8.3	6.8	10.2
80	8.9	7.1	10.7



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





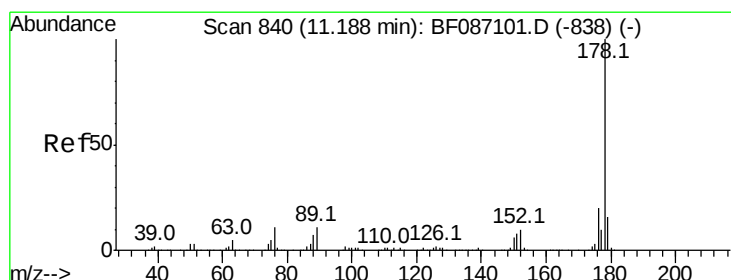
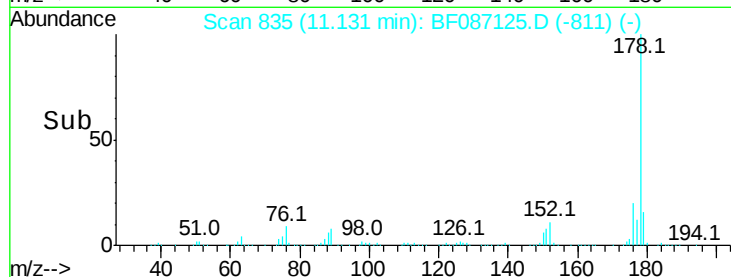
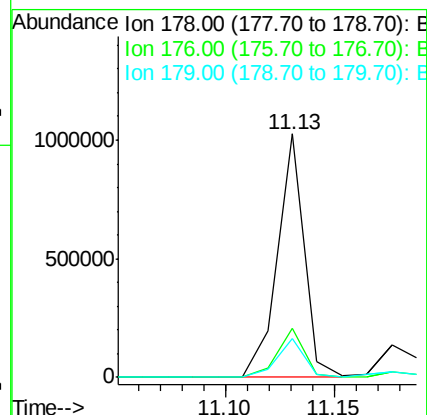
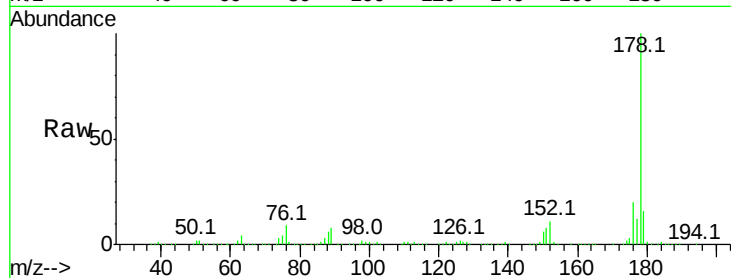
#70
Phenanthrene
Concen: 33.47 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.02 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Instrument :
BNA_F
ClientSampleId :
VITALE-FILL-CSPH3-10K

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.0	24.0
179	15.7	12.6	18.8

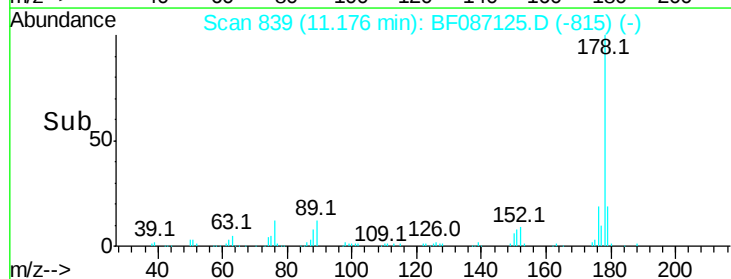
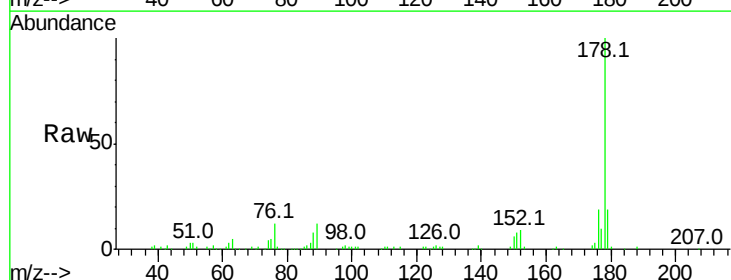
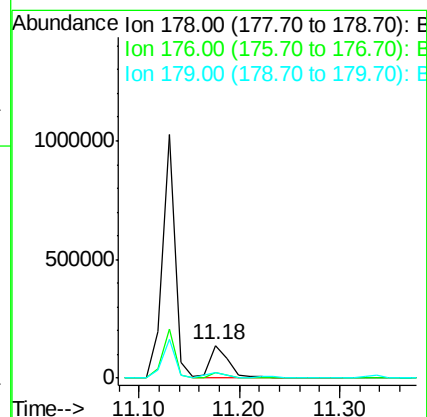
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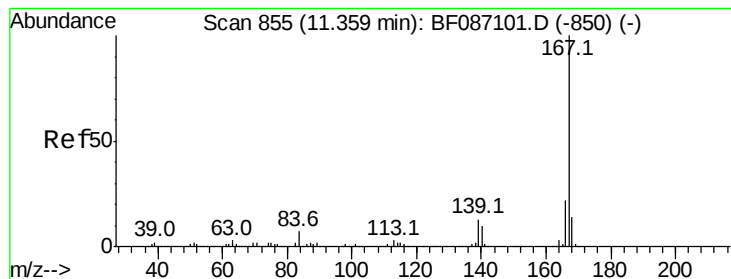
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#71
Anthracene
Concen: 6.53 ng
RT: 11.18 min Scan# 839
Delta R.T. -0.02 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.6	23.4
179	18.5	12.7	19.1





#72

Carbazole

Concen: 5.96 ng

RT: 11.35 min Scan# 854

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Instrument :

BNA_F

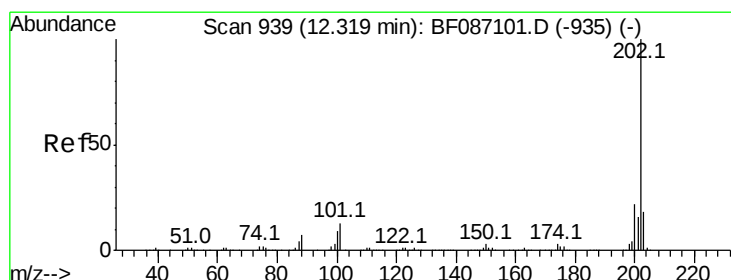
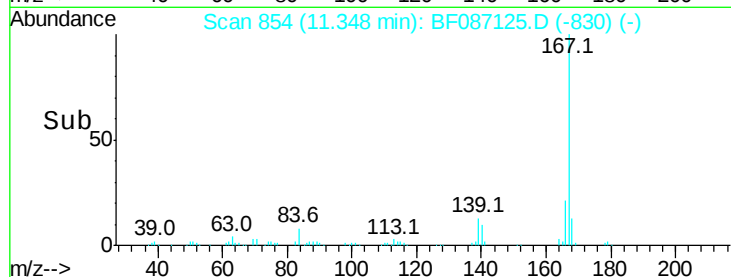
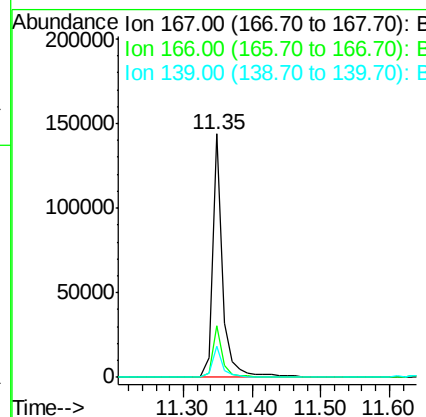
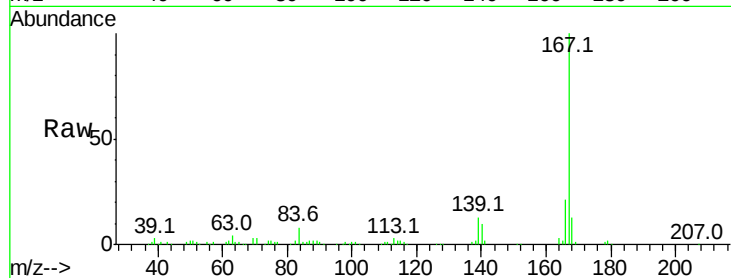
ClientSampleId :

VITALE-FILL-CSPH3-10K

Tot Ion:	167	Resp:	146562
Ion Ratio	Lower	Upper	
167	100		
166	21.2	17.7	26.5
139	13.0	10.8	16.2

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#74

Fluoranthene

Concen: 37.87 ng

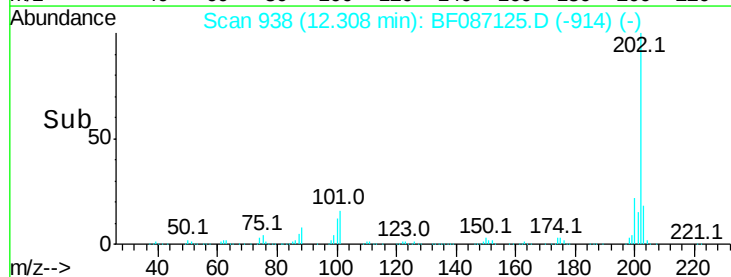
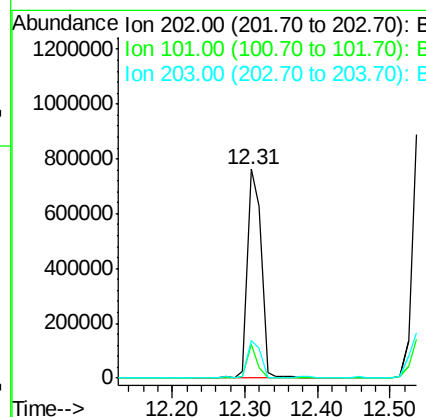
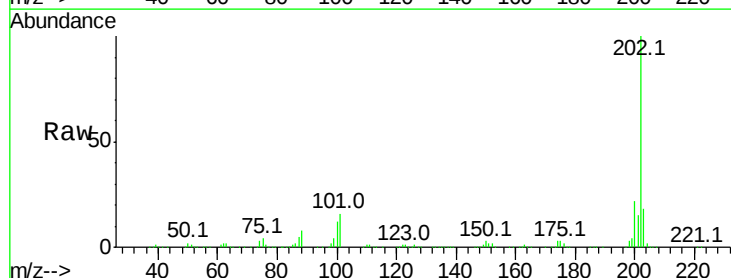
RT: 12.31 min Scan# 938

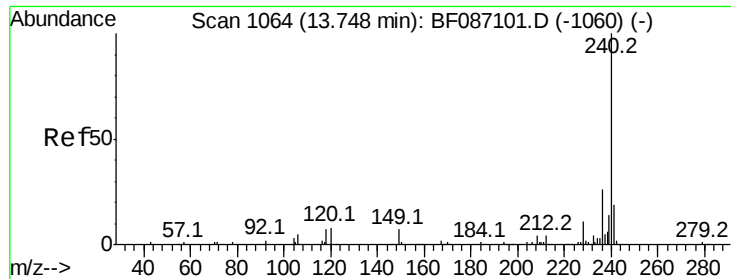
Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Tgt Ion:	202	Resp:	1010178
Ion Ratio	Lower	Upper	
202	100		
101	15.9	0.0	35.4
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Instrument :

BNA_F

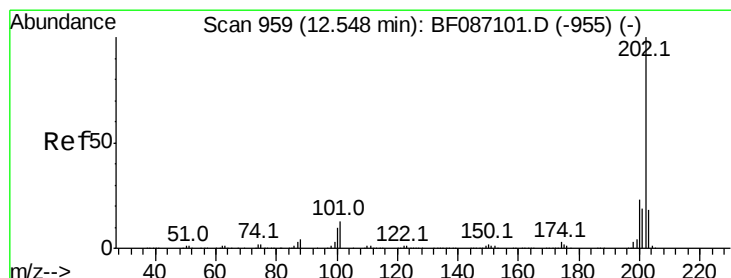
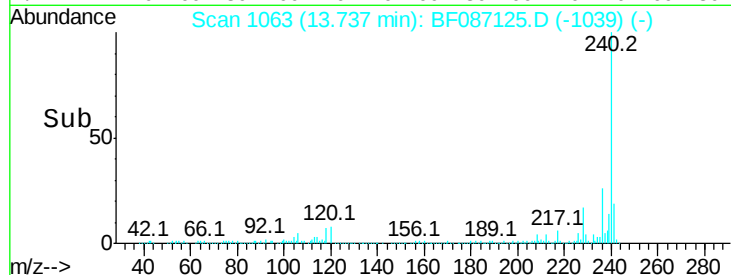
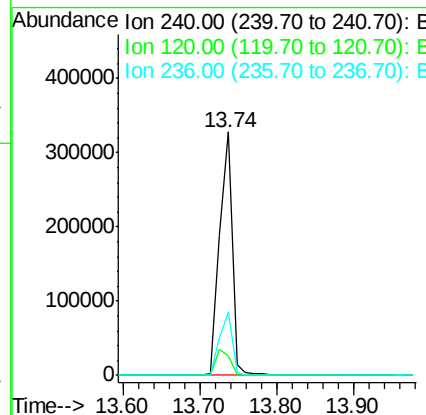
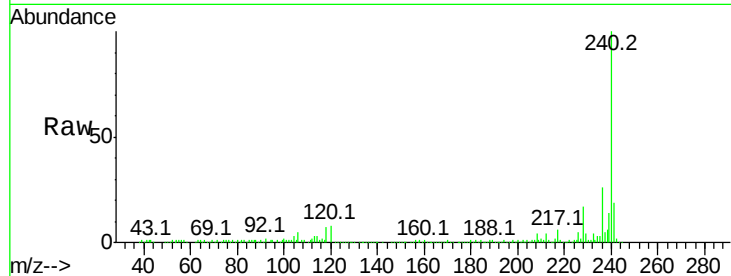
ClientSampleId :

VITALE-FILL-CSPH3-10K

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	8.0	11.2	16.8#	
236	26.0	21.2	31.8	

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#77

Pyrene

Concen: 30.44 ng

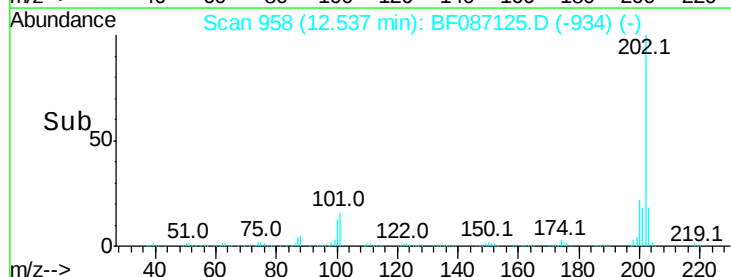
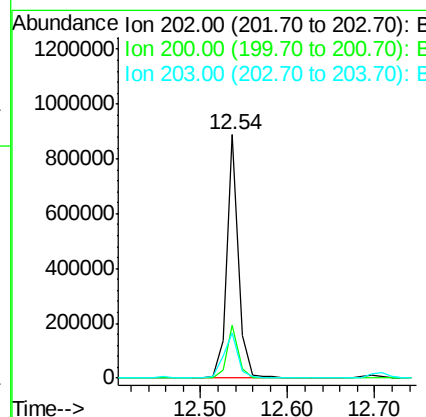
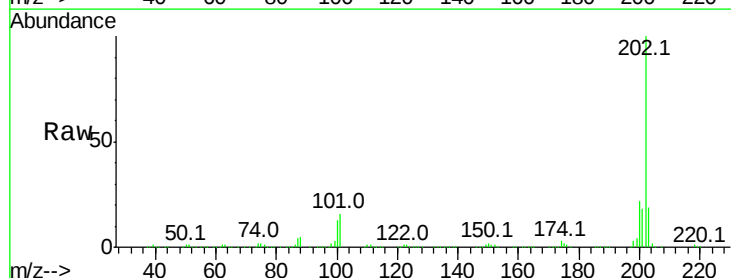
RT: 12.54 min Scan# 958

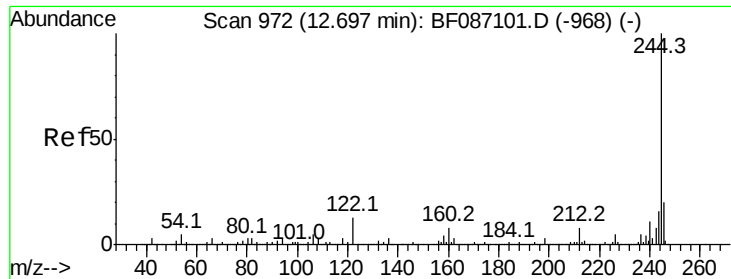
Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.5	17.7	26.5	
203	18.6	14.2	21.4	





#78

Terphenyl-d14

Concen: 98.88 ng

RT: 12.70 min Scan# 972

Delta R.T. -0.01 min

Lab File: BF087125.D

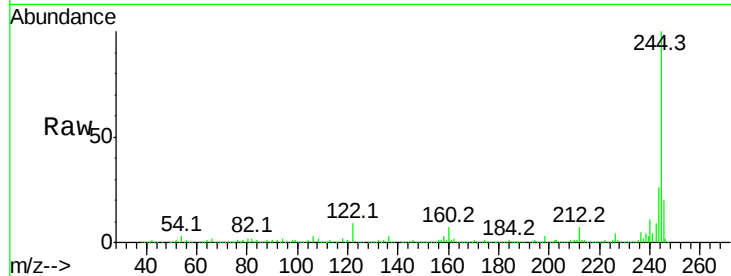
Acq: 18 May 2016 2:19

Instrument :

BNA_F

ClientSampleId :

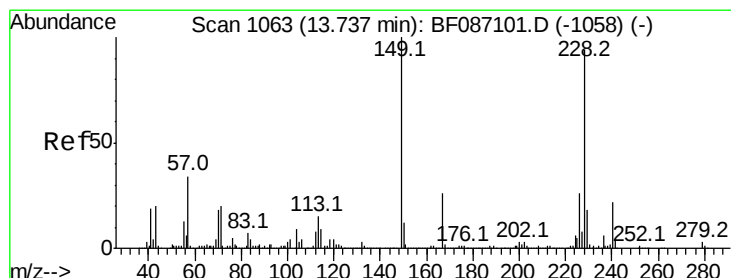
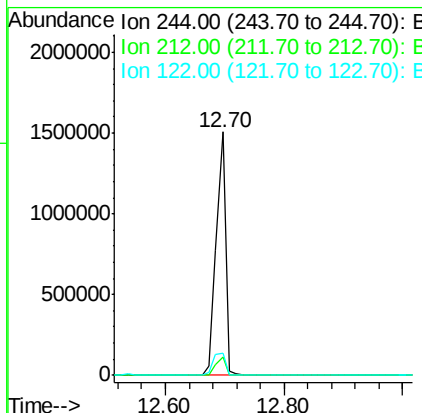
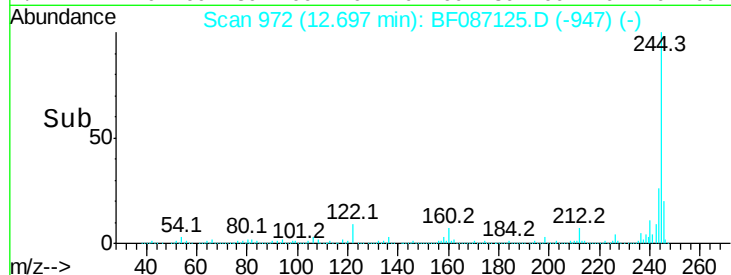
VITALE-FILL-CSPH3-10K



Tot Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.2	9.2
122	9.3	12.0	18.0#

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#80

Benzo(a)anthracene

Concen: 14.01 ng

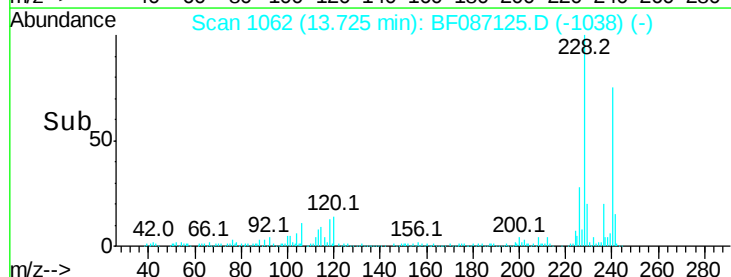
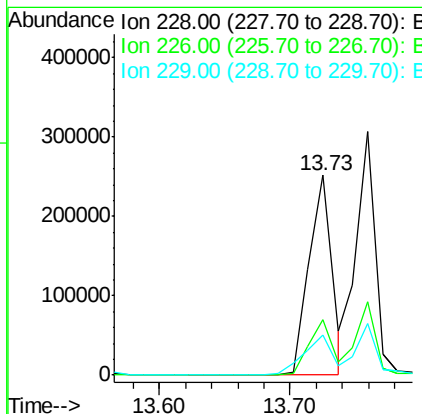
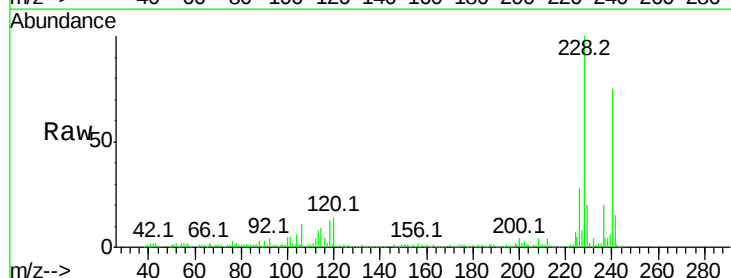
RT: 13.73 min Scan# 1062

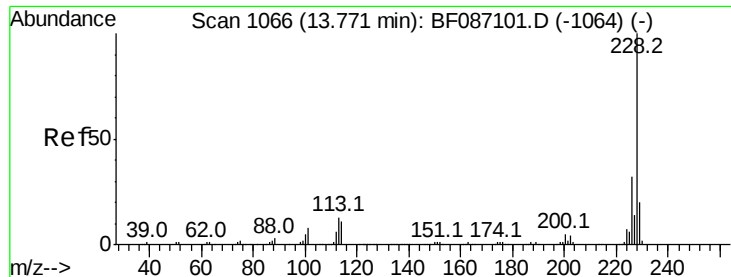
Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	20.2	16.6	25.0





#82

Chrysene

Concen: 14.87 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.02 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Instrument :

BNA_F

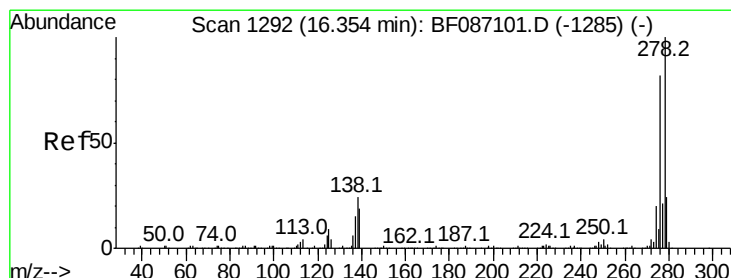
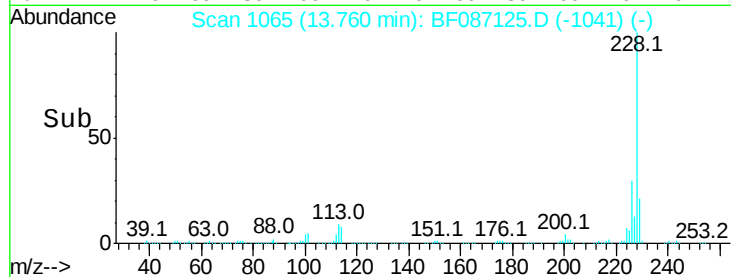
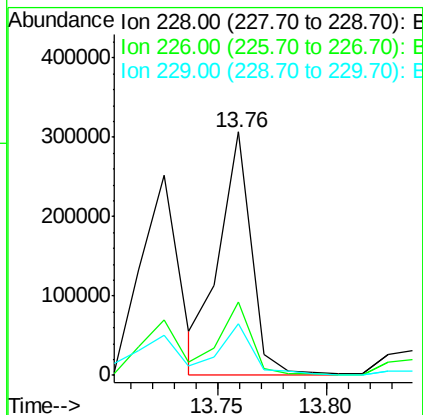
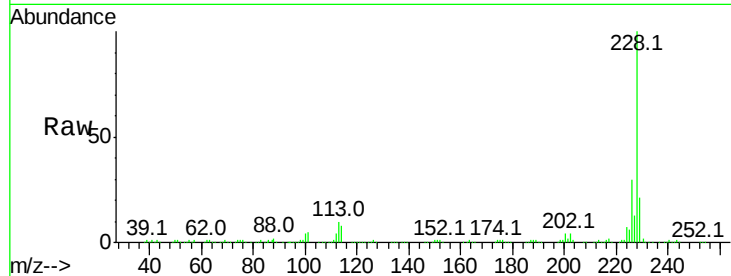
ClientSampleId :

VITALE-FILL-CSPH3-10K

Tot Ion:	228	Resp:	313009
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.4	36.6
229	21.4	15.8	23.8

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#85

Indeno(1,2,3-cd)pyrene

Concen: 7.29 ng

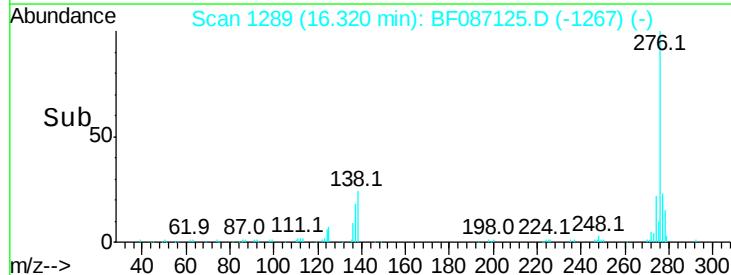
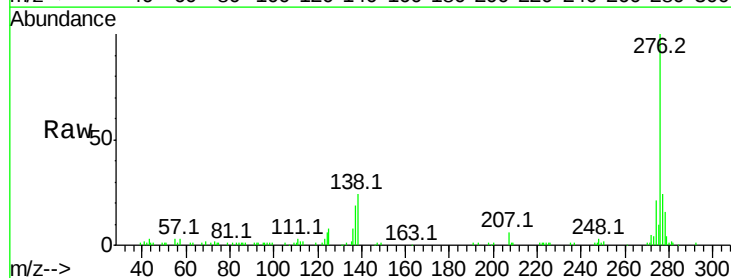
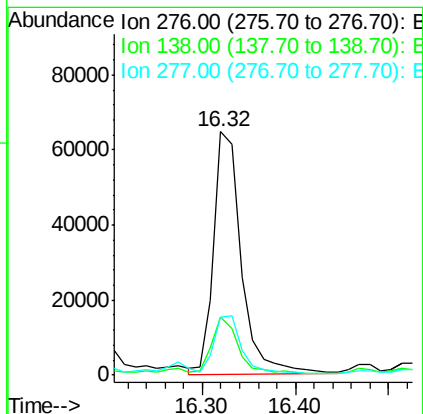
RT: 16.32 min Scan# 1289

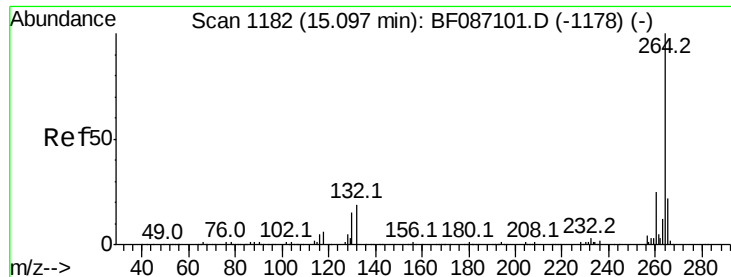
Delta R.T. -0.05 min

Lab File: BF087125.D

Acq: 18 May 2016 2:19

Tgt Ion:	276	Resp:	134744
Ion Ratio	Lower	Upper	
276	100		
138	26.7	25.6	38.4
277	23.0	20.5	30.7





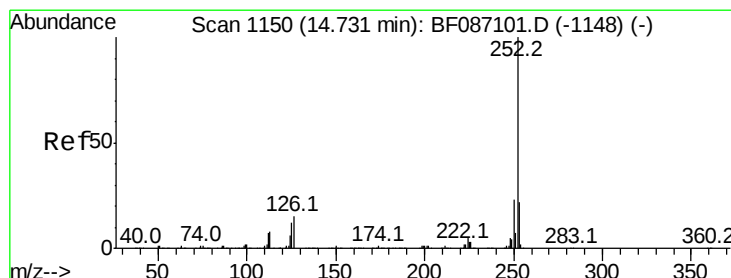
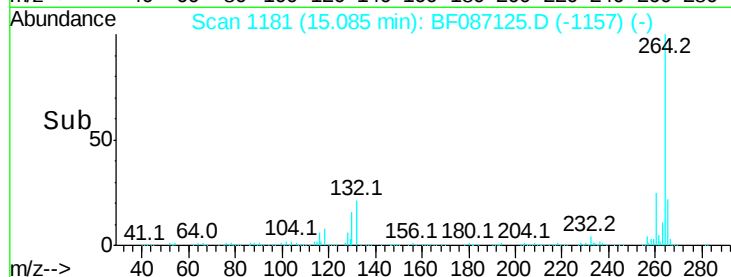
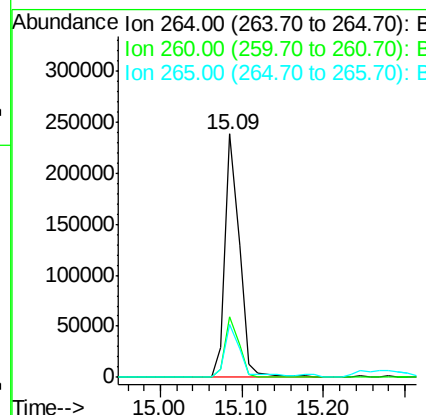
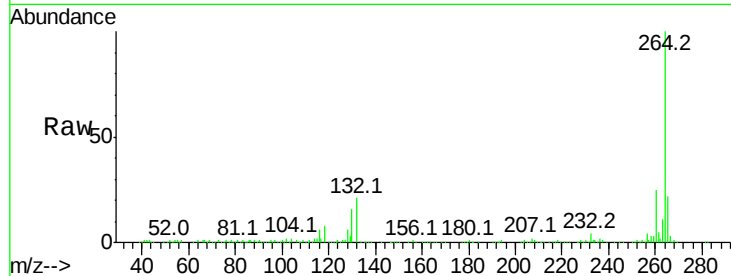
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.09 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Instrument :
BNA_F
ClientSampleId :
VITALE-FILL-CSPH3-10K

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	21.7	17.3	25.9

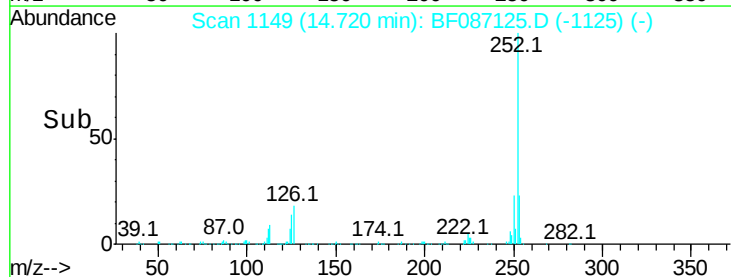
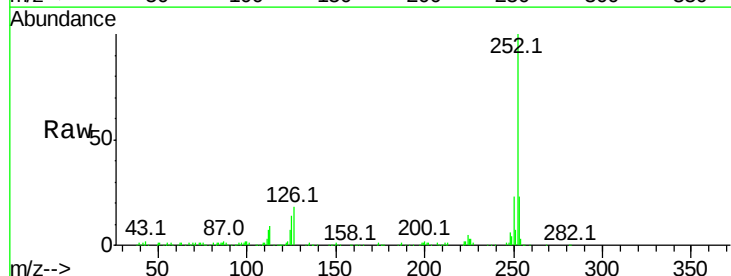
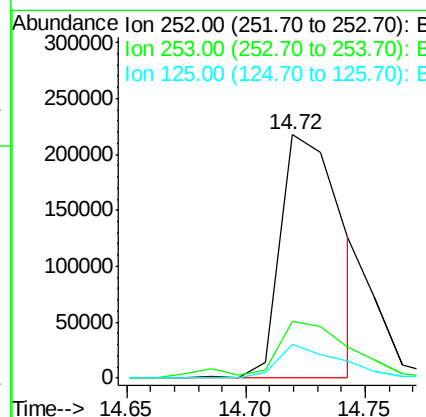
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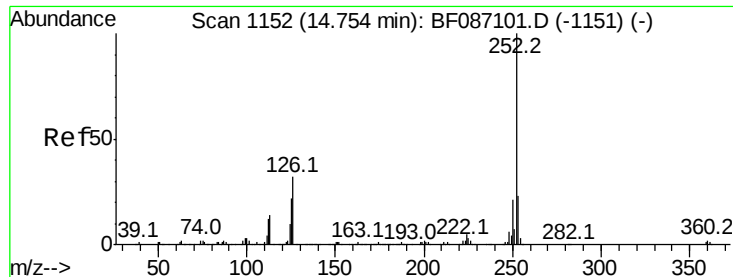
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#87
Benzo(b)fluoranthene
Concen: 19.82 ng m
RT: 14.72 min Scan# 1149
Delta R.T. -0.02 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.6
125	13.9	11.4	17.0





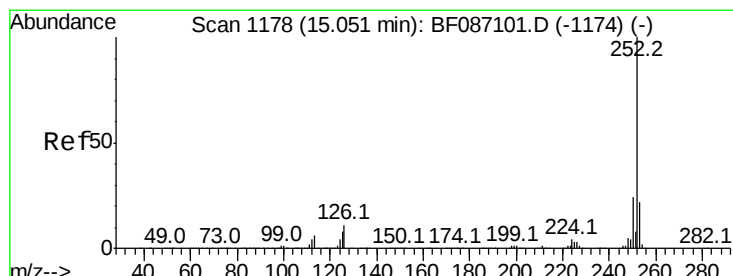
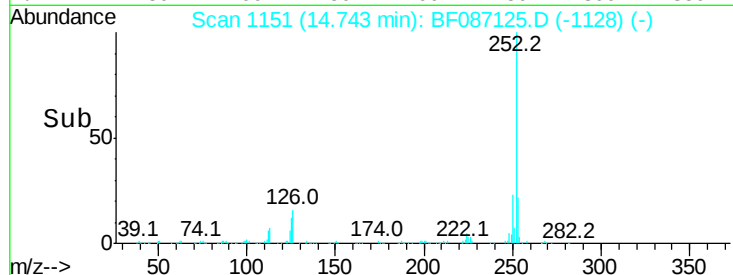
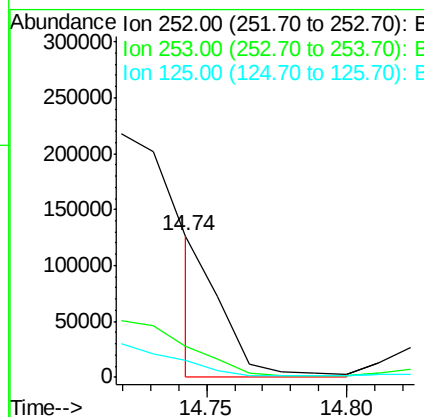
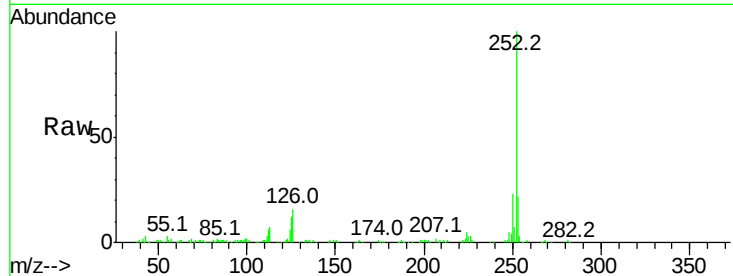
#88
Benzo(k)fluoranthene
Concen: 4.52 ng m
RT: 14.74 min Scan# 1151
Delta R.T. -0.03 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Instrument :
BNA_F
ClientSampleId :
VITALE-FILL-CSPH3-10K

Tot Ion	Ratio	Resp	Lower	Upper
252	100	65375		
253	21.9		17.8	26.6
125	11.9		9.1	13.7

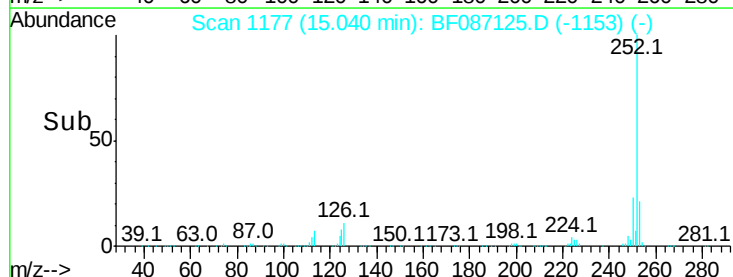
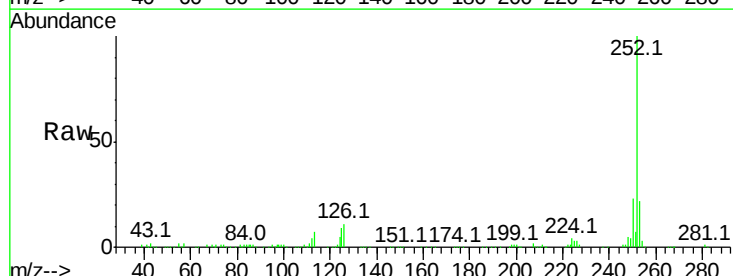
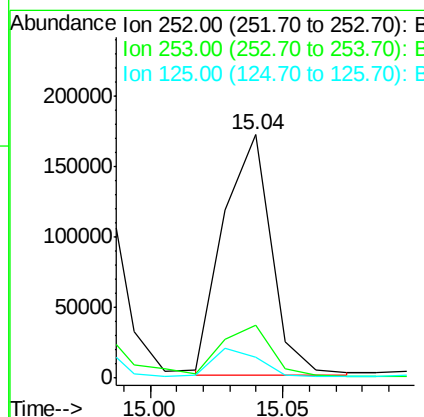
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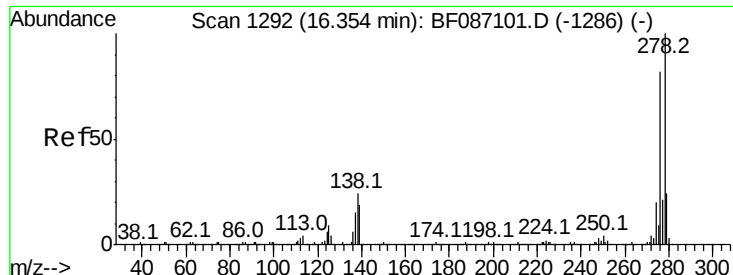
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#89
Benzo(a)pyrene
Concen: 13.31 ng m
RT: 15.04 min Scan# 1177
Delta R.T. -0.02 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	216211		
253	21.8		17.2	25.8
125	8.6		9.0	13.6#





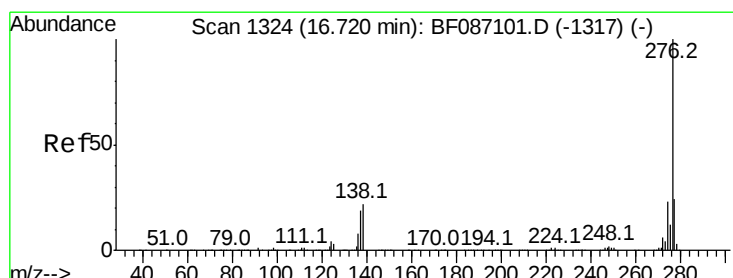
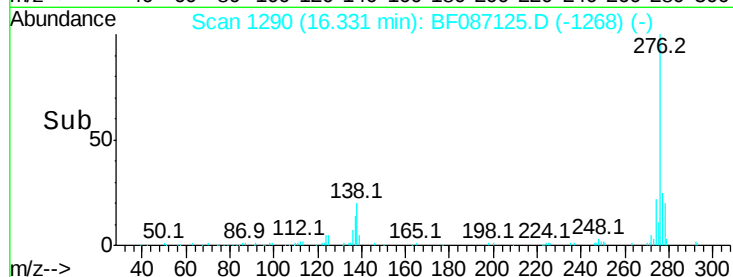
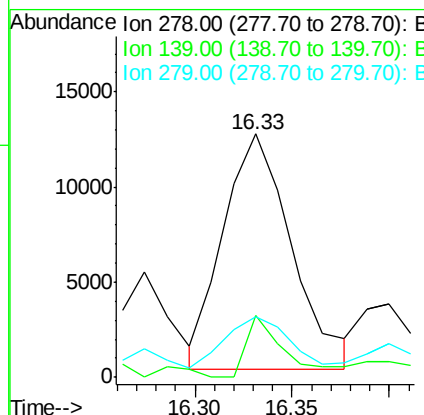
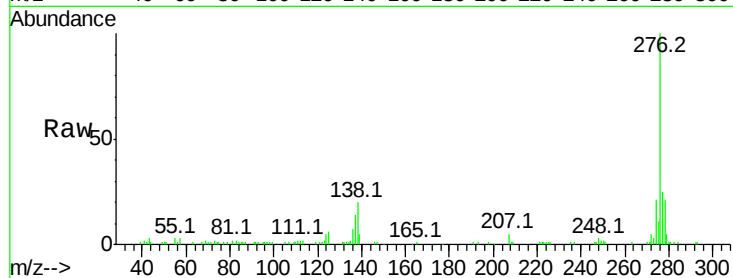
#90
Dibenzo(a,h)anthracene
Concen: 2.22 ng m
RT: 16.33 min Scan# 1290
Delta R.T. -0.05 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Instrument :
BNA_F
ClientSampleId :
VITALE-FILL-CSPH3-10K

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.4	16.6	24.8#
279	24.9	19.6	29.4

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#91
Benzo(g,h,i)perylene
Concen: 10.33 ng m
RT: 16.70 min Scan# 1322
Delta R.T. -0.05 min
Lab File: BF087125.D
Acq: 18 May 2016 2:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.6	29.4
138	23.1	23.6	35.4#

