

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050716\
 Data File : BF086808.D
 Acq On : 8 May 2016 7:40
 Operator : UM/SJ
 Sample : H2720-08
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS4

Manual Integrations
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Quant Time: May 09 18:09:18 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 04 15:12:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	197159	40.00	ng	-0.03
21) Naphthalene-d8	7.98	136	724983	40.00	ng	-0.05
38) Acenaphthene-d10	9.73	164	307656	40.00	ng	-0.05
63) Phenanthrene-d10	11.22	188	528189	40.00	ng	-0.03
75) Chrysene-d12	13.85	240	341638	40.00	ng	-0.03
86) Perylene-d12	15.23	264	335179	40.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.31	112	1298650	109.04	ng	-0.01
7) Phenol-d6	6.37	99	1851232	115.40	ng	0.00
23) Nitrobenzene-d5	7.28	82	1168783	82.84	ng	-0.03
41) 2,4,6-Tribromophenol	10.53	330	388644	129.14	ng	-0.03
44) 2-Fluorobiphenyl	9.07	172	1550630	82.62	ng	-0.03
78) Terphenyl-d14	12.80	244	1008824	59.68	ng	-0.05
Target Compounds						Qvalue
31) Naphthalene	8.01	128	93177	2.52	ng	99
49) Dimethylphthalate	9.47	163	243902	10.63	ng	98
51) Acenaphthene	9.77	154	59115	3.11	ng	96
54) Dibenzofuran	9.94	168	51517	2.19	ng	# 93
57) Fluorene	10.28	166	80809	4.23	ng	98
70) Phenanthrene	11.24	178	711957	25.09	ng	100
71) Anthracene	11.29	178	203620	6.85	ng	99
72) Carbazole	11.46	167	84680	3.28	ng	98
74) Fluoranthene	12.42	202	704709	24.79	ng	98
77) Pyrene	12.65	202	550088	20.20	ng	98
80) Benzo(a)anthracene	13.84	228	318296m	16.47	ng	
82) Chrysene	13.87	228	276469m	13.41	ng	
85) Indeno(1,2,3-cd)pyrene	16.52	276	120407	6.81	ng	# 87
87) Benzo(b)fluoranthene	14.84	252	311841m	15.48	ng	
88) Benzo(k)fluoranthene	14.85	252	142927m	7.53	ng	
89) Benzo(a)pyrene	15.17	252	226419m	12.20	ng	
90) Dibenzo(a,h)anthracene	16.52	278	36233m	2.03	ng	
91) Benzo(g,h,i)perylene	16.91	276	95650	5.11	ng	# 93

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

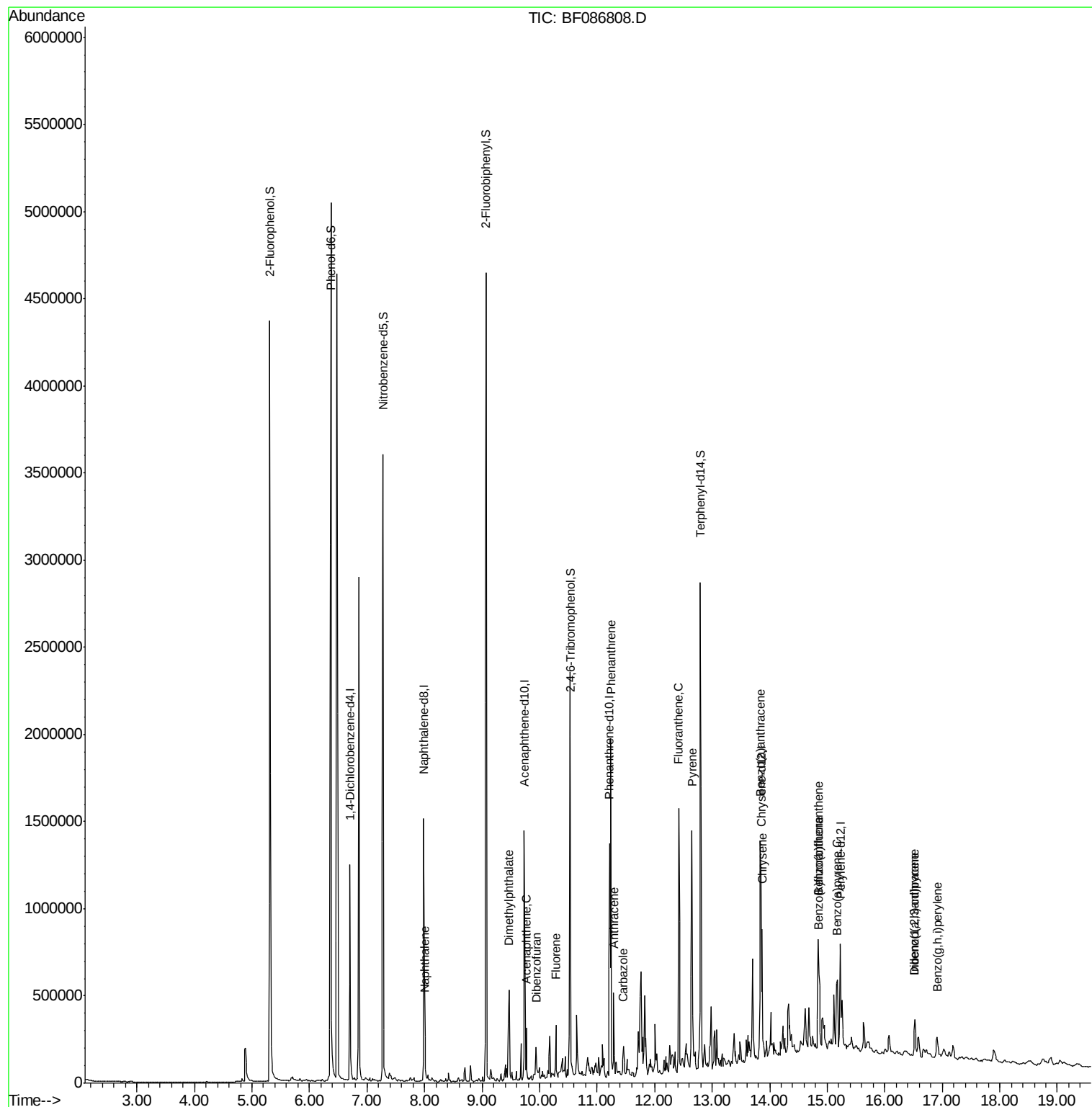
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050716\
Data File : BF086808.D
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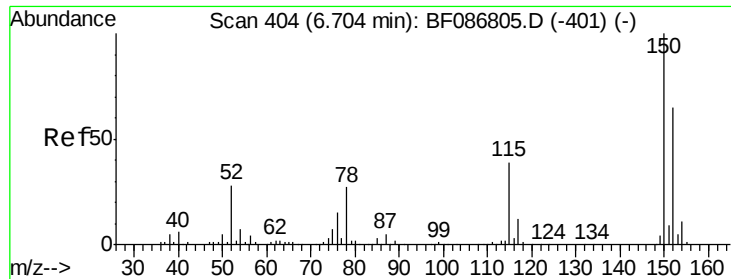
Instrument :
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QLast Update : Wed May 04 15:12:53 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 40.00 ng

RT: 6.70 min Scan# 404

Delta R.T. -0.03 min

Lab File: BF086808.D

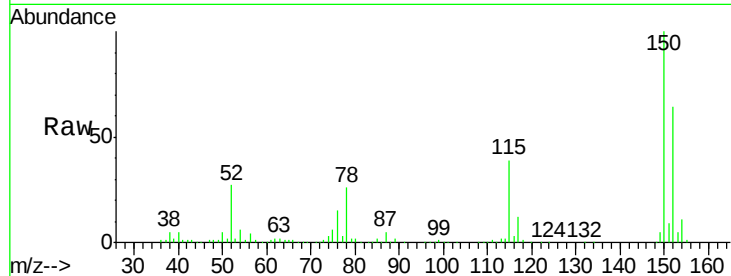
Acq: 8 May 2016 7:40

Instrument :

BNA_F

ClientSampleId :

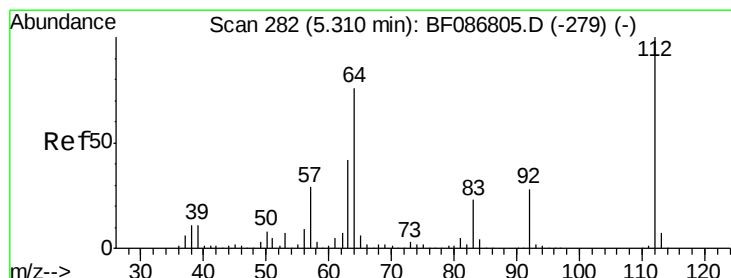
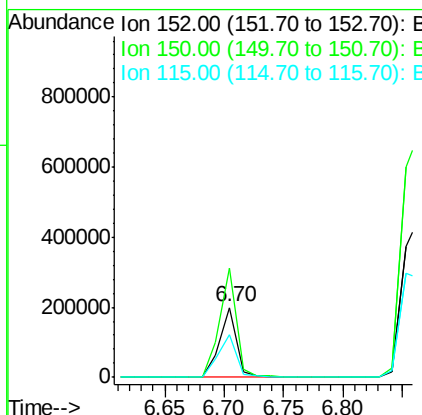
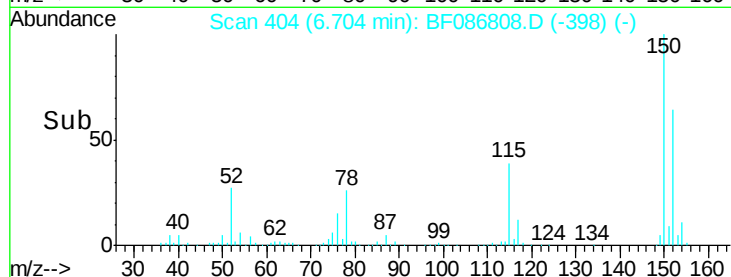
SS4



Tgt Ion:	152	Resp:	197159
Ion Ratio	Lower	Upper	
152	100		
150	156.0	125.8	188.6
115	60.1	51.5	77.3

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#5

2-Fluorophenol

Concen: 109.04 ng

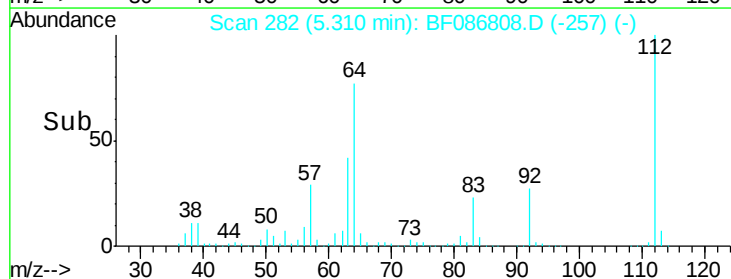
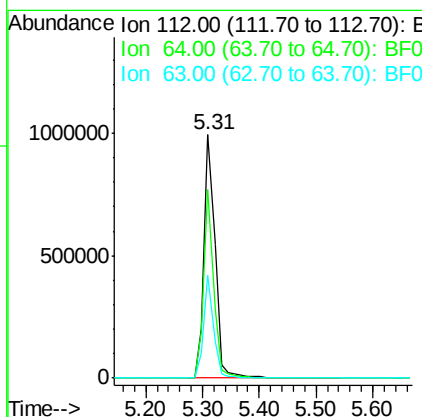
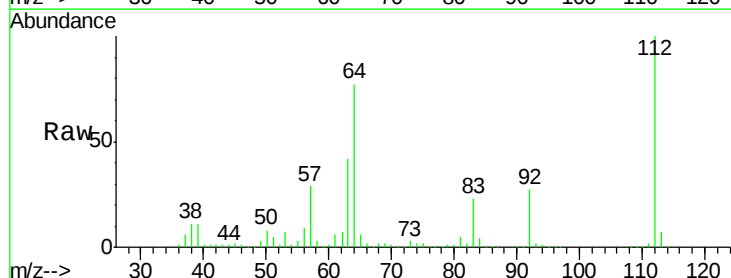
RT: 5.31 min Scan# 282

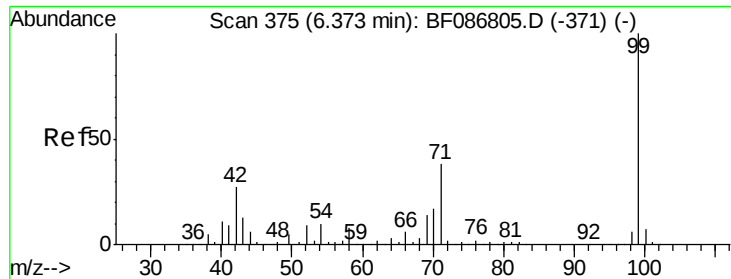
Delta R.T. -0.01 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Tgt Ion:	112	Resp:	1298650
Ion Ratio	Lower	Upper	
112	100		
64	77.2	52.1	78.1
63	42.2	25.7	38.5





#7

Phenol-d6

Concen: 115.40 ng

RT: 6.37 min Scan# 375

Delta R.T. 0.00 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Instrument :

BNA_F

ClientSampleId :

SS4

Tgt Ion: 99 Resp: 1851232

Ion Ratio Lower Upper

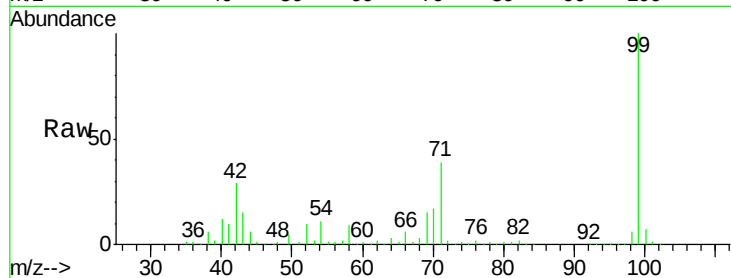
99 100

42 29.5 13.6 20.4#

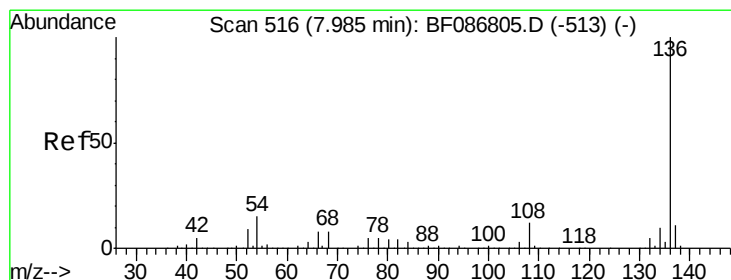
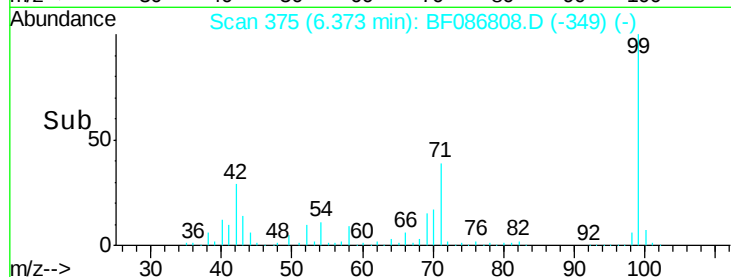
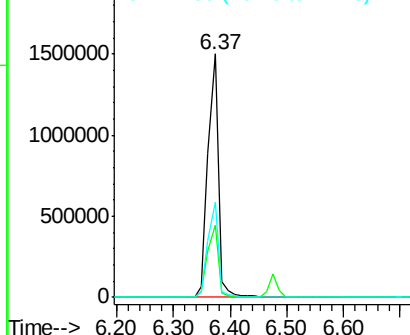
71 39.3 24.6 36.8#

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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: 40.00 ng

RT: 7.98 min Scan# 516

Delta R.T. -0.05 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Tgt Ion: 136 Resp: 724983

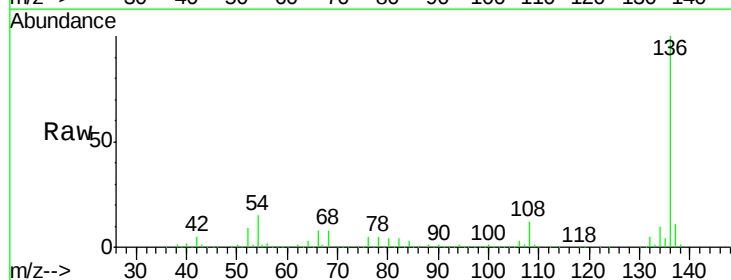
Ion Ratio Lower Upper

136 100

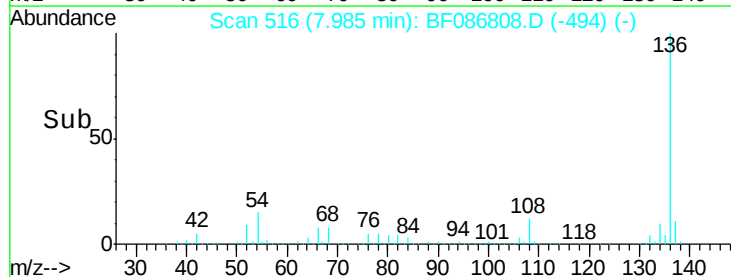
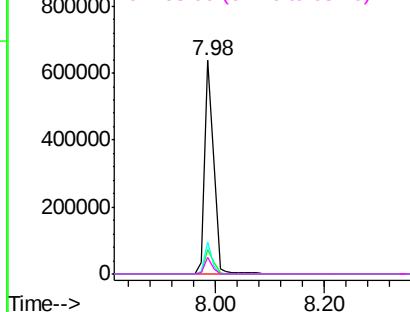
137 11.4 8.8 13.2

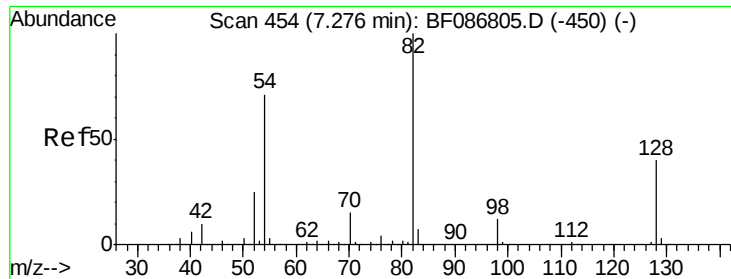
54 14.9 5.0 7.4#

68 8.0 4.4 6.6#



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





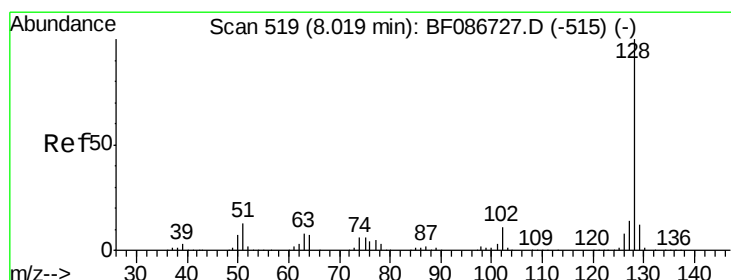
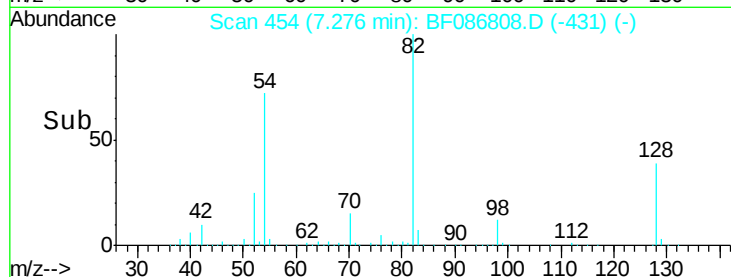
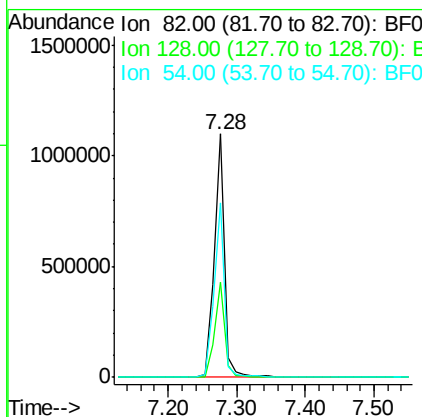
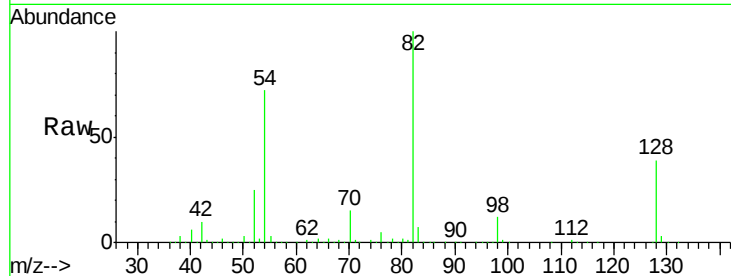
#23
 Nitrobenzene-d5
 Concen: 82.84 ng
 RT: 7.28 min Scan# 454
 Delta R.T. -0.03 min
 Lab File: BF086808.D
 Acq: 8 May 2016 7:40

Instrument :
 BNA_F
 ClientSampled :
 SS4

Tgt Ion: 82 Resp: 1168783
 Ion Ratio Lower Upper
 82 100
 128 38.9 40.6 61.0#
 54 71.8 38.1 57.1#

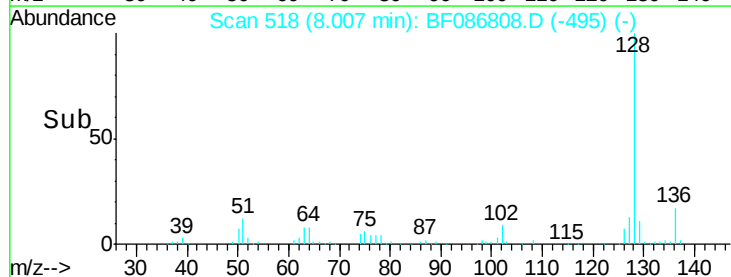
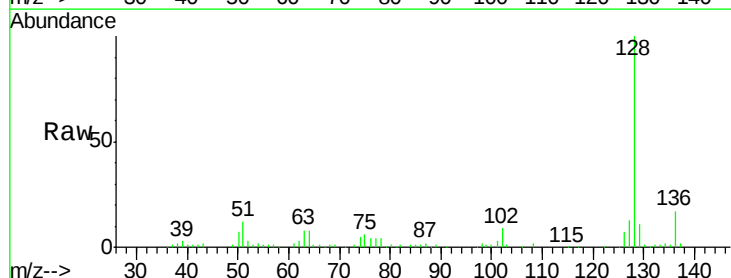
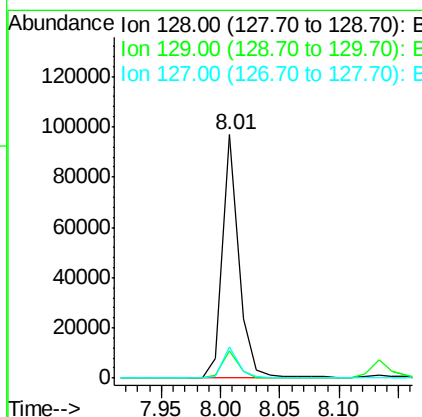
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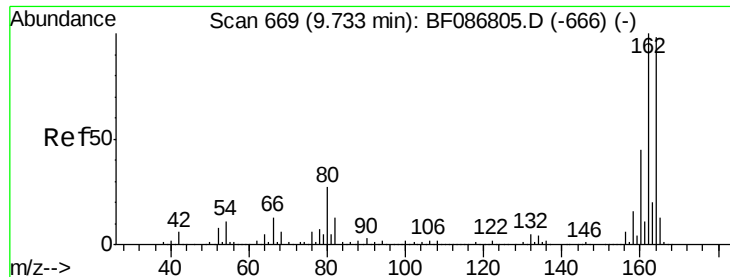
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#31
 Naphthalene
 Concen: 2.52 ng
 RT: 8.01 min Scan# 518
 Delta R.T. -0.03 min
 Lab File: BF086808.D
 Acq: 8 May 2016 7:40

Tgt Ion: 128 Resp: 93177
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.6 13.0
 127 13.0 10.8 16.2





#38

Acenaphthene-d10

Concen: 40.00 ng

RT: 9.73 min Scan# 669

Delta R.T. -0.05 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Instrument :

BNA_F

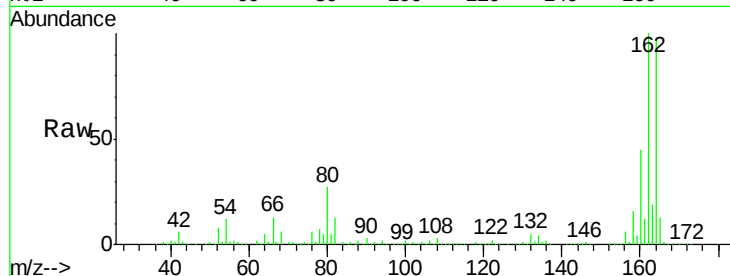
ClientSampleId :

SS4

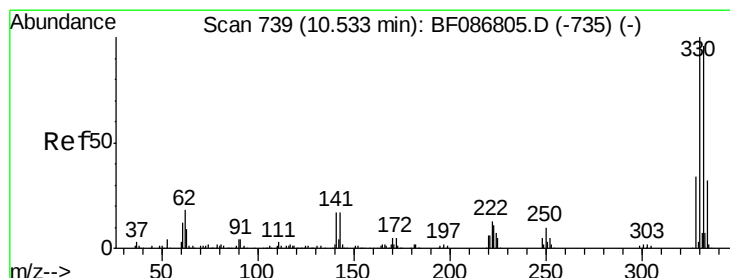
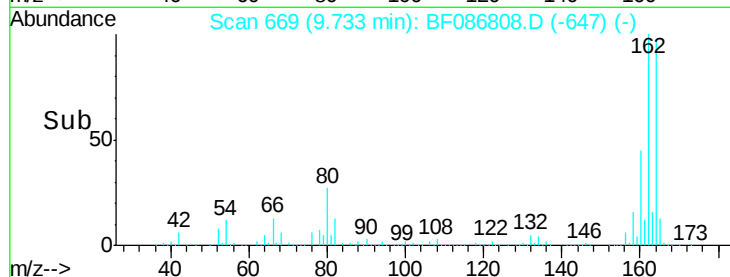
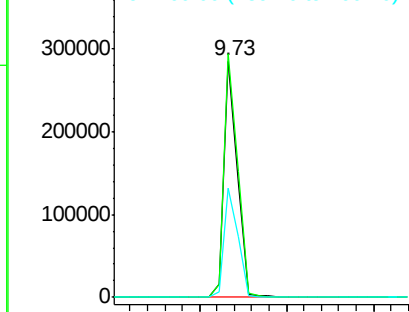
Tgt	Ion:164	Resp:	307656
Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.8	124.2
160	46.5	36.9	55.3

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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: 129.14 ng

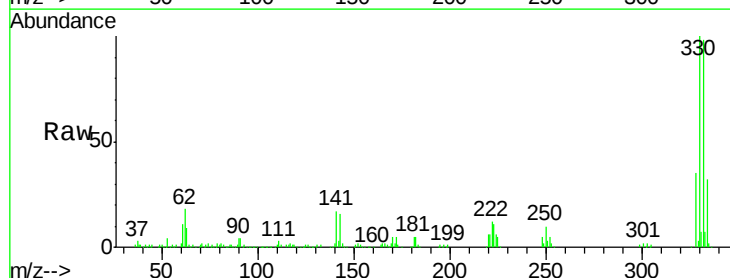
RT: 10.53 min Scan# 739

Delta R.T. -0.03 min

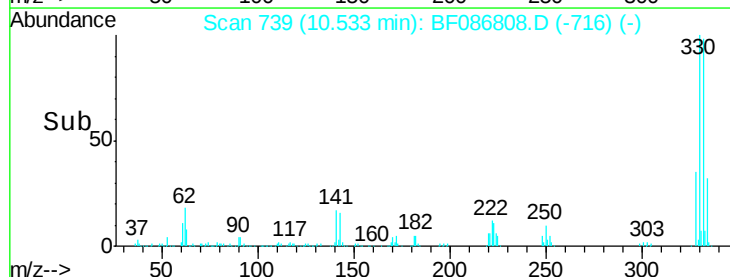
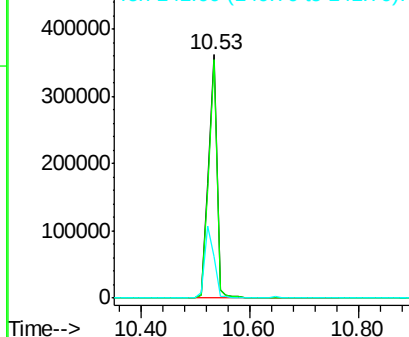
Lab File: BF086808.D

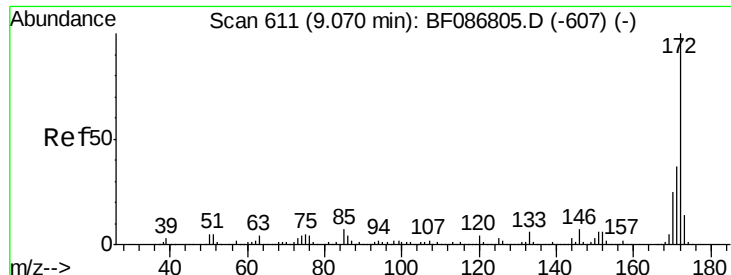
Acq: 8 May 2016 7:40

Tgt	Ion:330	Resp:	388644
Ion	Ratio	Lower	Upper
330	100		
332	96.9	79.0	118.4
141	33.1	31.2	46.8



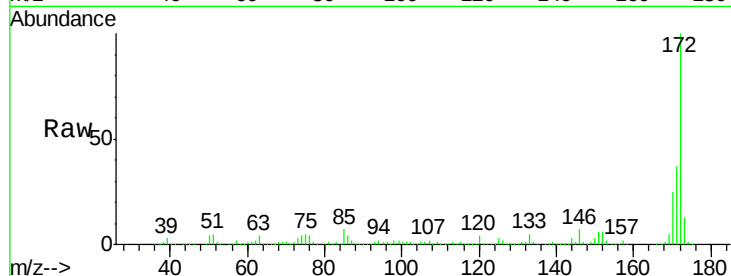
Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





#44
 2-Fluorobiphenyl
 Concen: 82.62 ng
 RT: 9.07 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: BF086808.D
 Acq: 8 May 2016 7:40

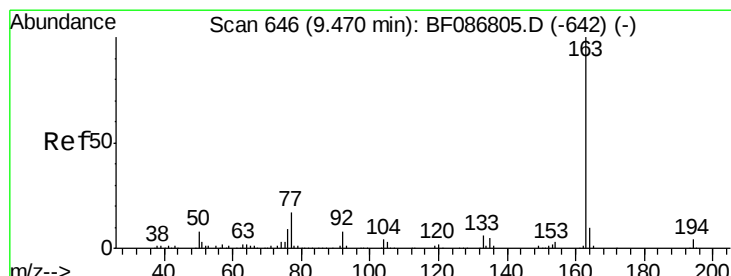
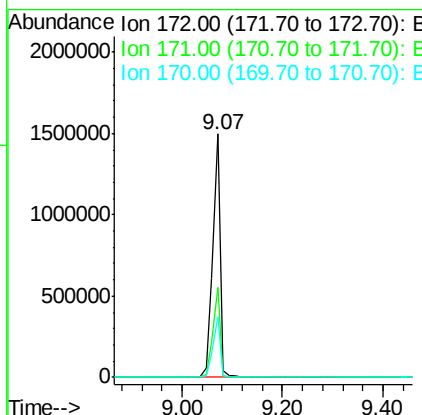
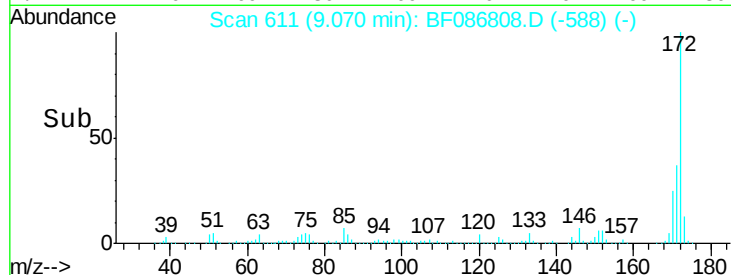
Instrument :
 BNA_F
 ClientSampled :
 SS4



Tgt Ion:172 Resp: 1550630
 Ion Ratio Lower Upper
 172 100
 171 36.7 29.0 43.6
 170 24.9 19.8 29.8

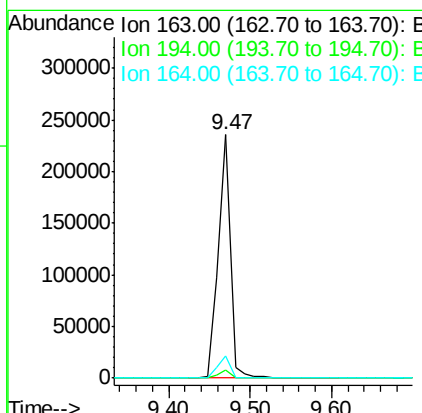
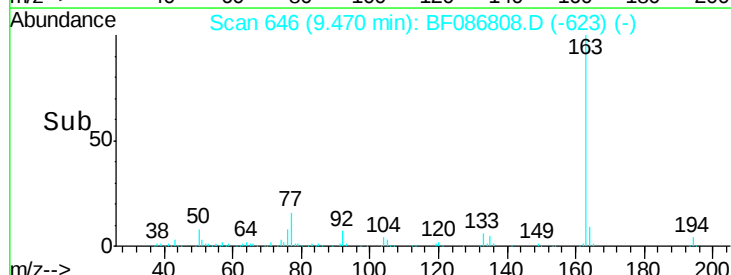
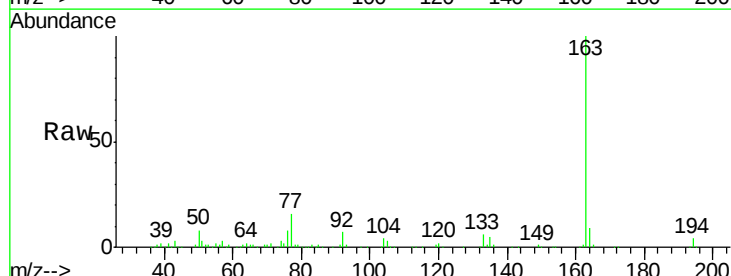
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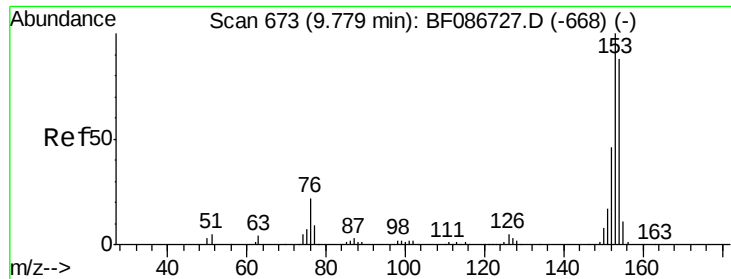
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#49
 Dimethylphthalate
 Concen: 10.63 ng
 RT: 9.47 min Scan# 646
 Delta R.T. -0.03 min
 Lab File: BF086808.D
 Acq: 8 May 2016 7:40

Tgt Ion:163 Resp: 243902
 Ion Ratio Lower Upper
 163 100
 194 3.5 2.6 4.0
 164 9.4 8.2 12.4





#51

Acenaphthene

Concen: 3.11 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.05 min

Lab File: BF086808.D

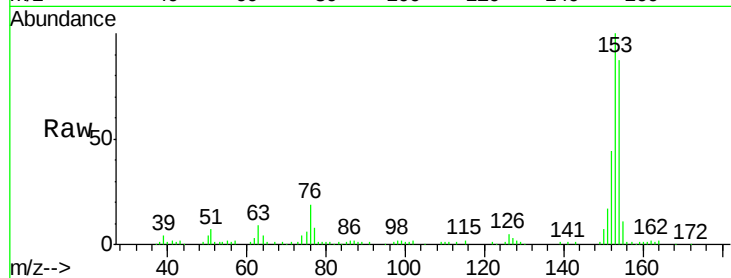
Acq: 8 May 2016 7:40

Instrument :

BNA_F

ClientSampled :

SS4



Tgt Ion:154 Resp: 59115

Ion Ratio Lower Upper

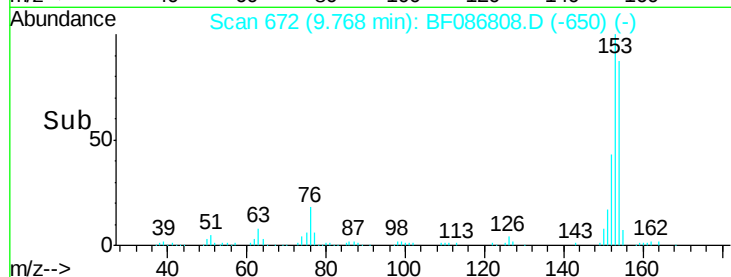
154 100

153 115.4 89.8 134.6

152 50.5 43.4 65.0

Manual Integrations
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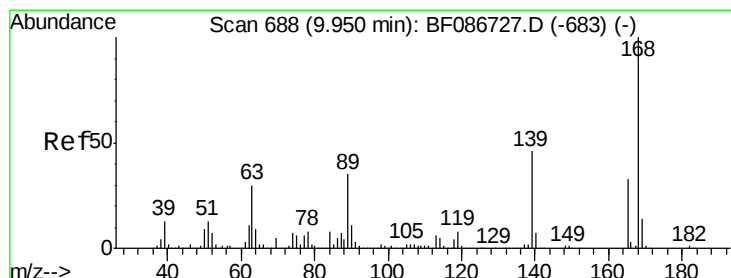
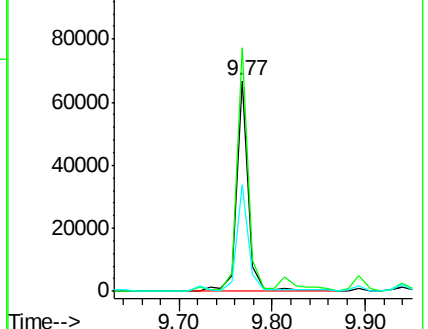
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.19 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.05 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

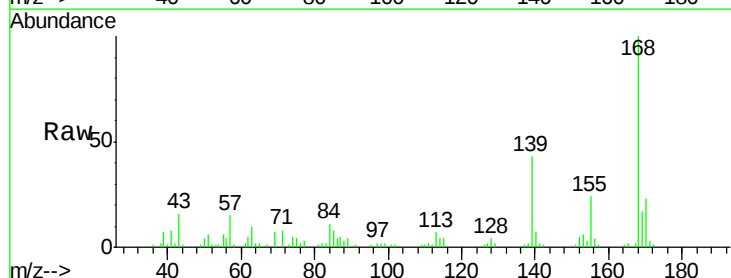
Tgt Ion:168 Resp: 51517

Ion Ratio Lower Upper

168 100

139 43.0 31.4 47.0

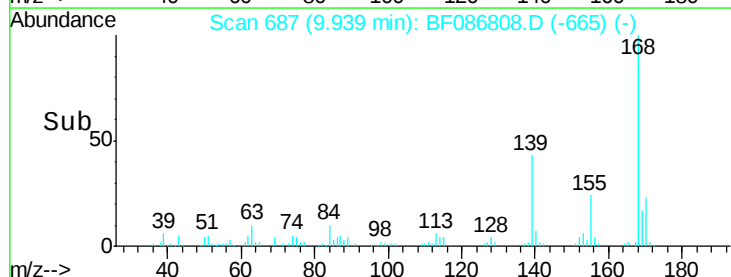
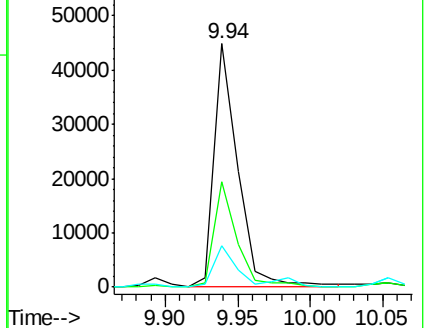
169 17.1 10.7 16.1#

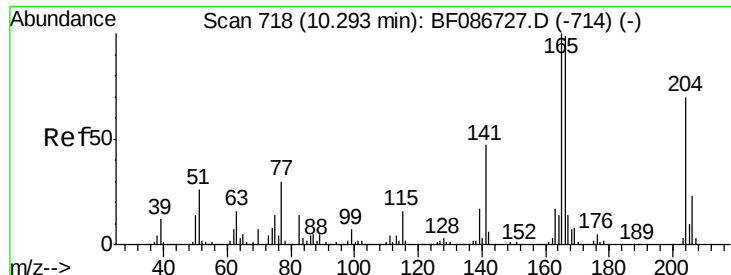


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





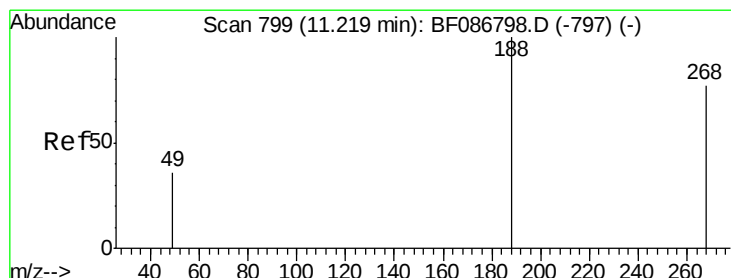
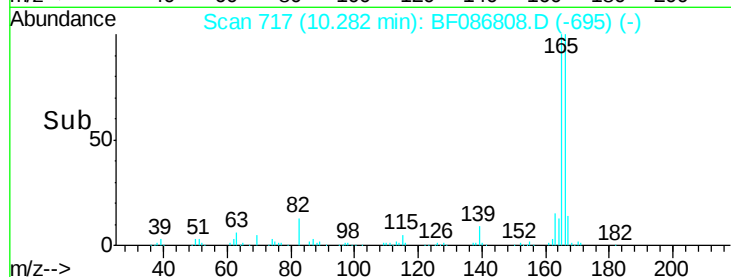
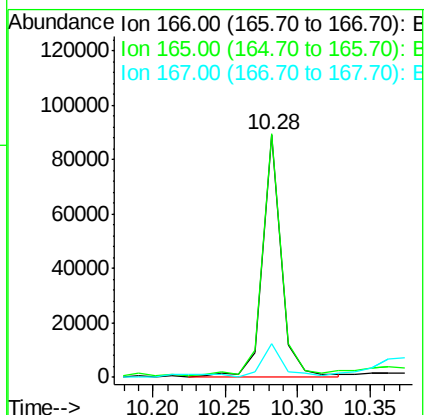
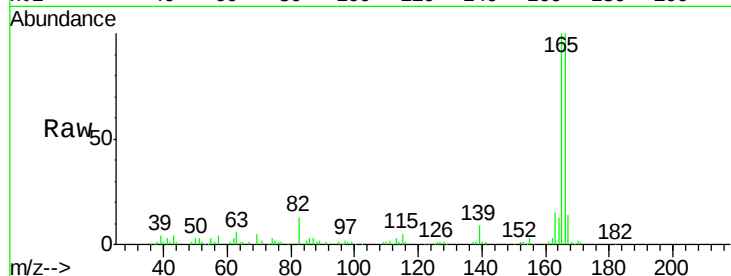
#57
Fluorene
 Concen: 4.23 ng
 RT: 10.28 min Scan# 717
 Delta R.T. -0.05 min
 Lab File: BF086808.D
 Acq: 8 May 2016 7:40

Instrument :
 BNA_F
 ClientSampleId :
 SS4

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	80809		
165	100.4	79.0	118.6	
167	14.1	10.6	15.8	

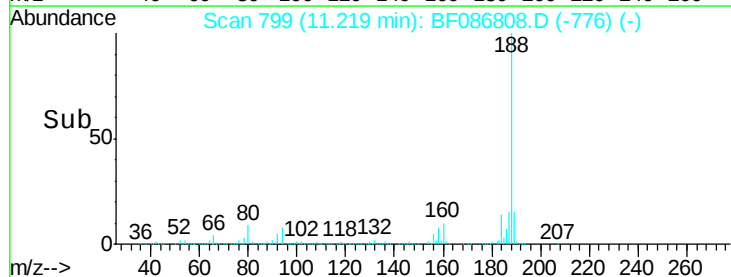
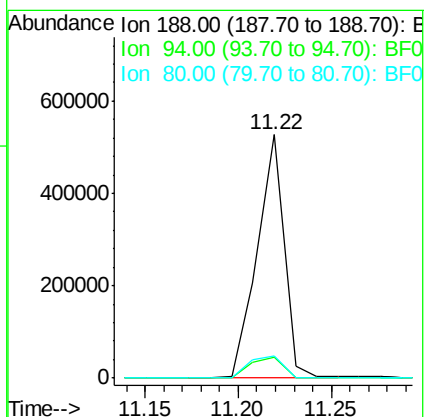
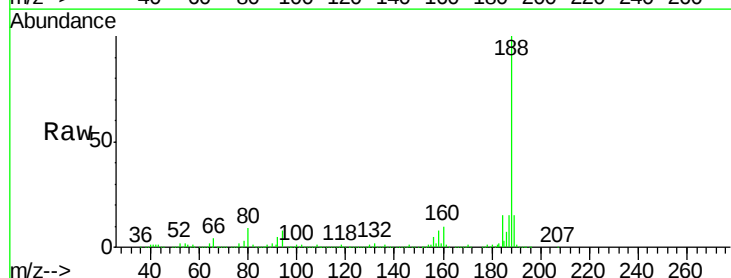
Manual Integrations
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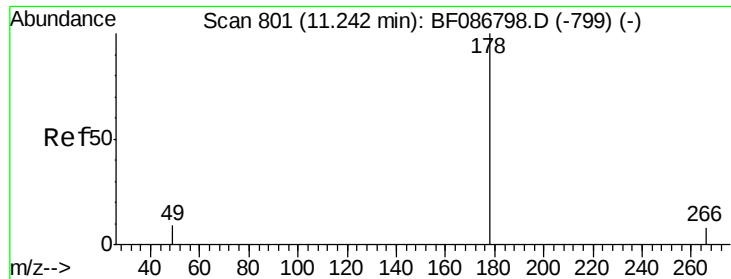
Sohil
 5/9/2016 7:20:27 PM



#63
Phenanthrene-d10
 Concen: 40.00 ng
 RT: 11.22 min Scan# 799
 Delta R.T. -0.03 min
 Lab File: BF086808.D
 Acq: 8 May 2016 7:40

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	528189		
94	8.4	6.8	10.2	
80	8.9	7.1	10.7	





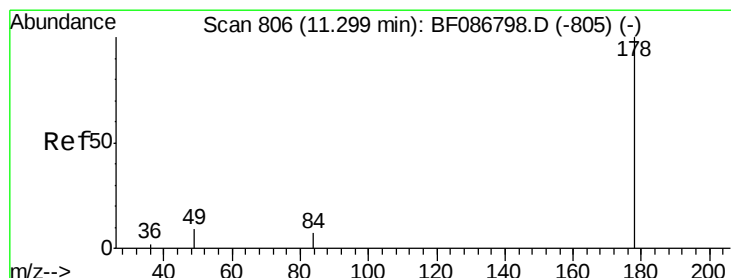
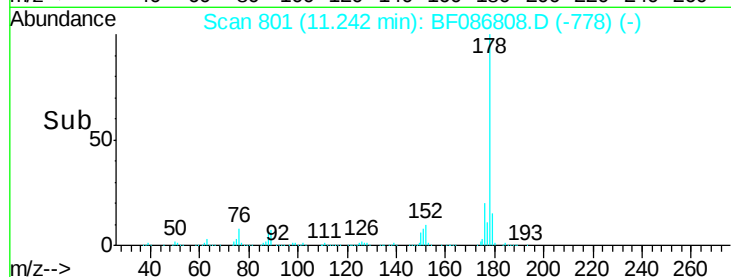
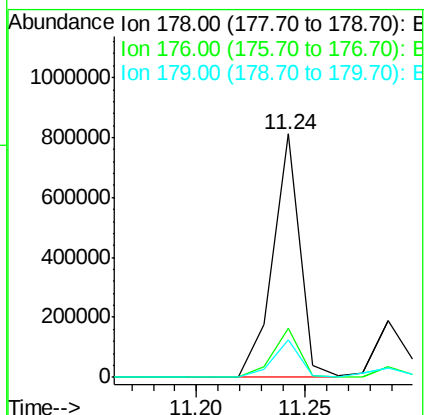
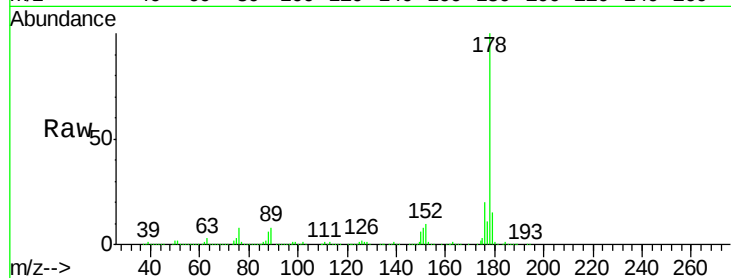
#70
Phenanthrene
Concen: 25.09 ng
RT: 11.24 min Scan# 801
Delta R.T. -0.03 min
Lab File: BF086808.D
Acq: 8 May 2016 7:40

Instrument :
BNA_F
ClientSampleId :
SS4

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	15.3	12.6	18.8

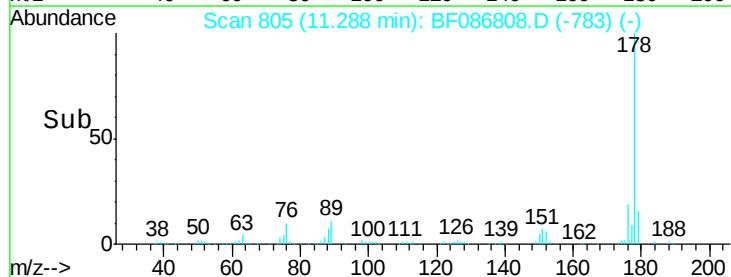
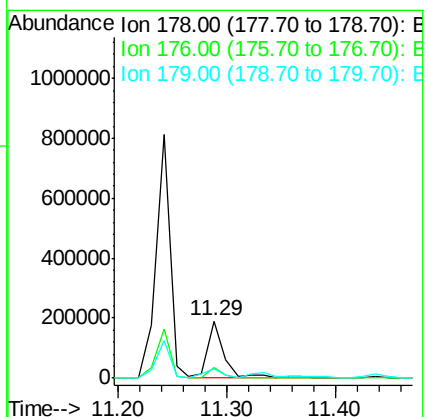
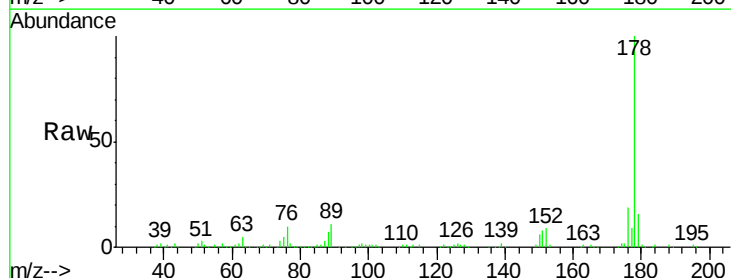
Manual Integrations
APPROVED

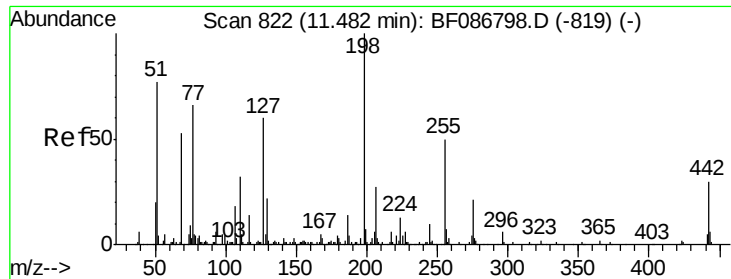
Sohil
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#71
Anthracene
Concen: 6.85 ng
RT: 11.29 min Scan# 805
Delta R.T. -0.05 min
Lab File: BF086808.D
Acq: 8 May 2016 7:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.6	23.4
179	16.1	12.7	19.1





#72

Carbazole

Concen: 3.28 ng

RT: 11.46 min Scan# 820

Delta R.T. -0.03 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Instrument :

BNA_F

ClientSampleId :

SS4

Tgt Ion:167 Resp: 84680

Ion Ratio Lower Upper

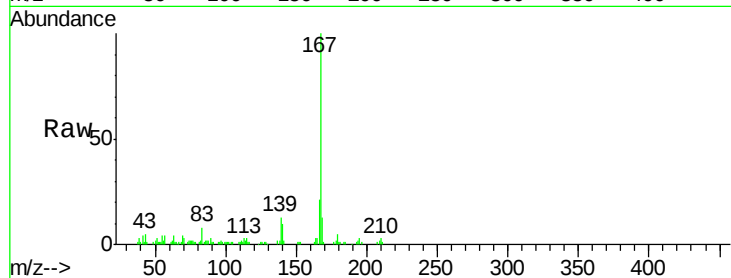
167 100

166 20.8 17.7 26.5

139 13.1 10.8 16.2

Manual Integrations
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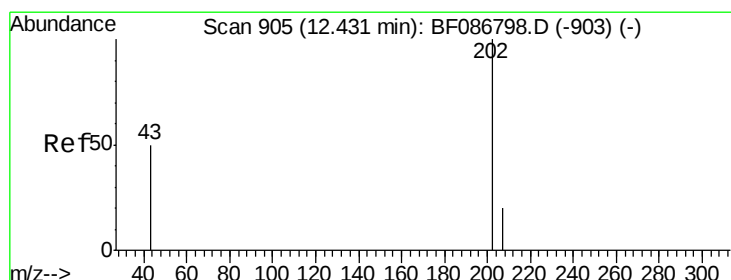
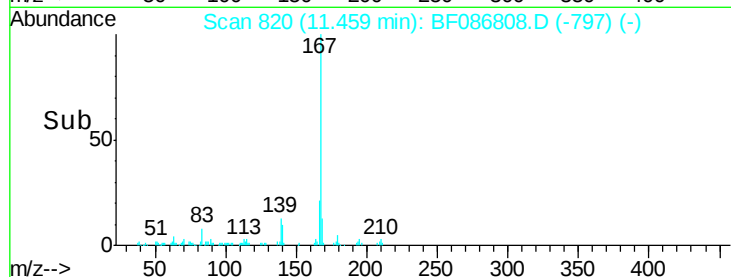
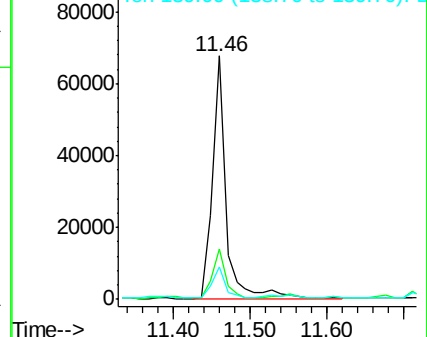
Sohil
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 24.79 ng

RT: 12.42 min Scan# 904

Delta R.T. -0.05 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

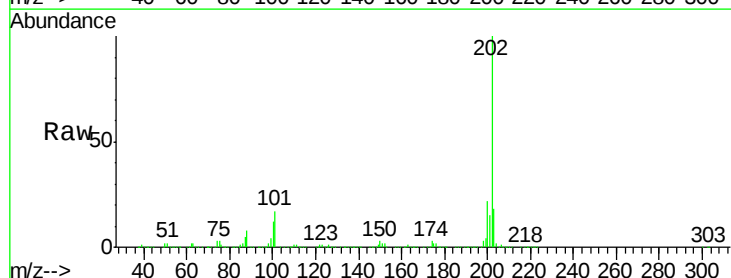
Tgt Ion:202 Resp: 704709

Ion Ratio Lower Upper

202 100

101 16.6 0.0 35.4

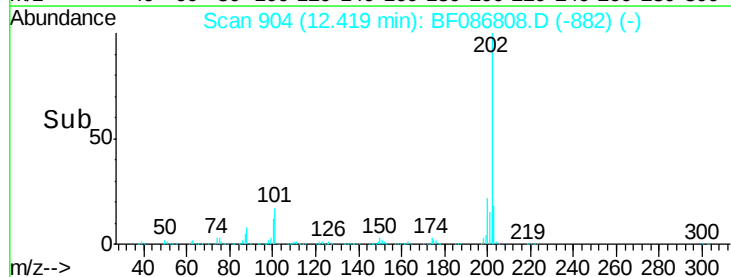
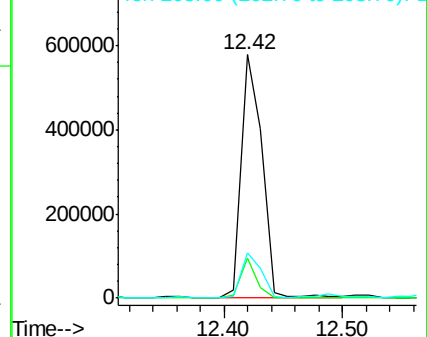
203 18.3 0.0 38.1

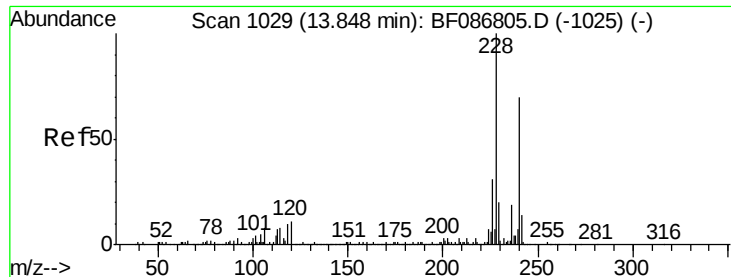


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 40.00 ng

RT: 13.85 min Scan# 1029

Delta R.T. -0.03 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Instrument :

BNA_F

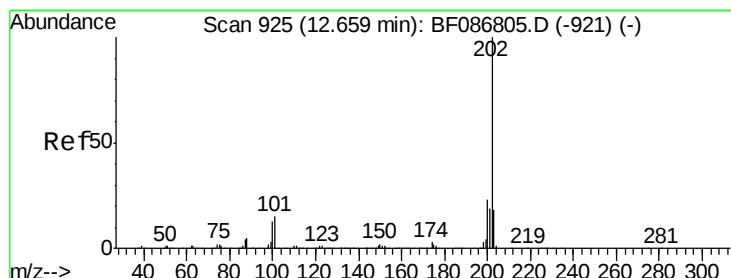
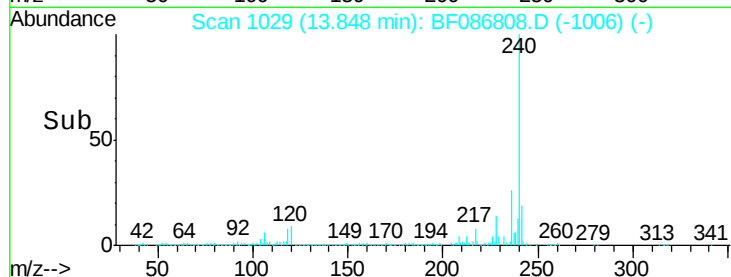
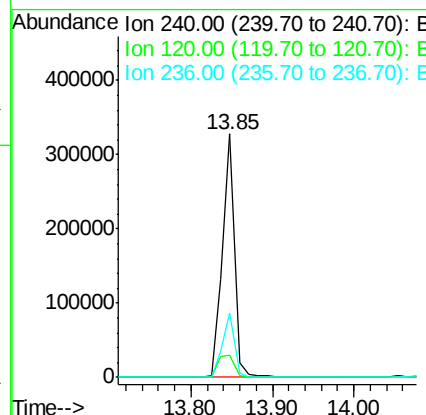
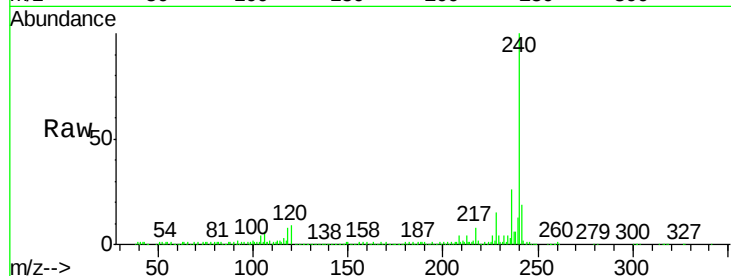
ClientSampled :

SS4

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	341638		
120	9.2	11.2	16.8#	
236	26.4	21.2	31.8	

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#77

Pyrene

Concen: 20.20 ng

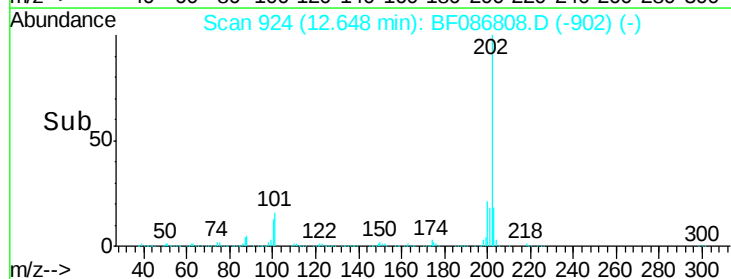
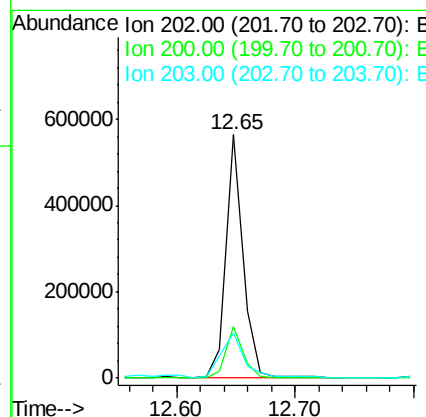
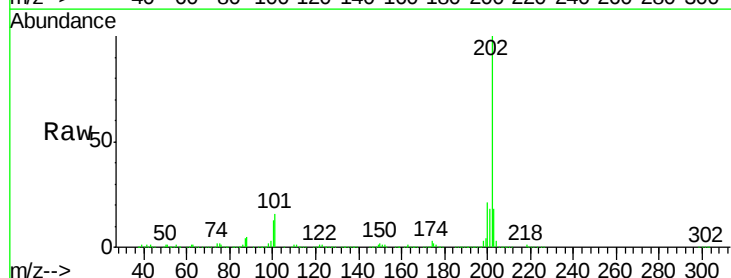
RT: 12.65 min Scan# 924

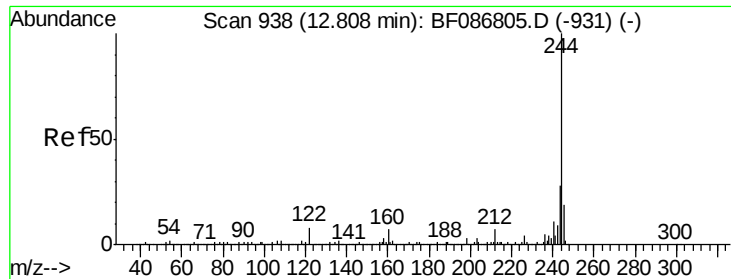
Delta R.T. -0.05 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	550088		
200	21.2	17.7	26.5	
203	18.5	14.2	21.4	





#78

Terphenyl-d14

Concen: 59.68 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.05 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Instrument :

BNA_F

ClientSampleId :

SS4

Tgt Ion:244 Resp: 1008824

Ion Ratio Lower Upper

244 100

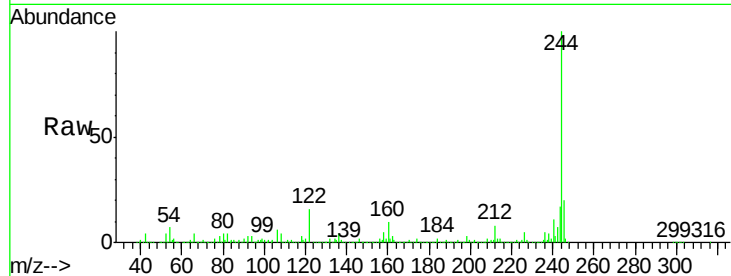
212 8.2 6.2 9.2

122 16.0 12.0 18.0

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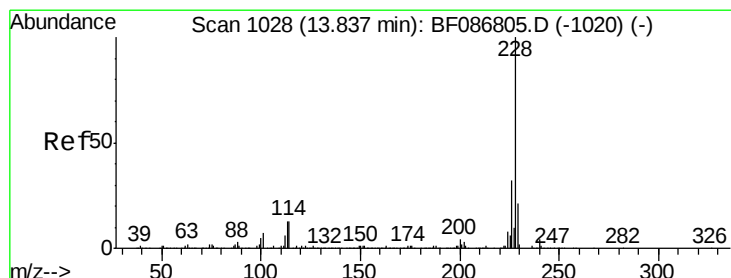
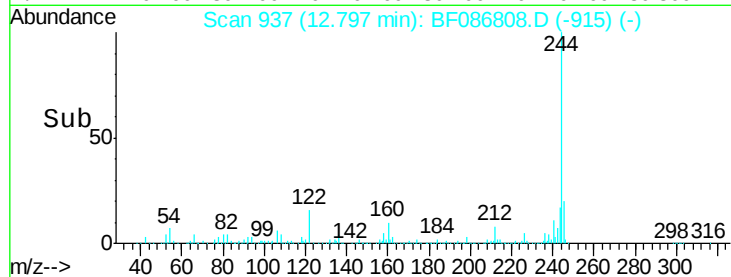
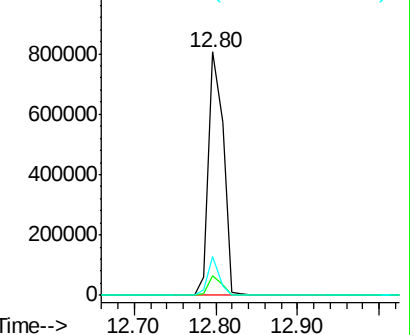
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 16.47 ng m

RT: 13.84 min Scan# 1028

Delta R.T. -0.03 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Tgt Ion:228 Resp: 318296

Ion Ratio Lower Upper

228 100

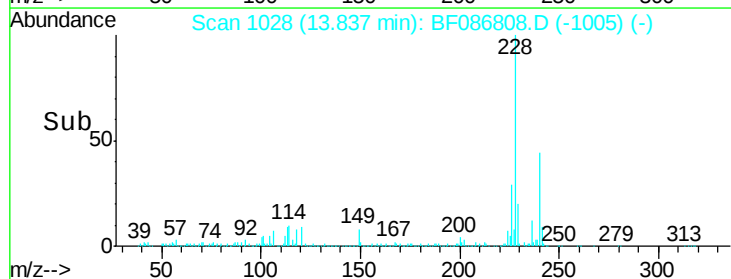
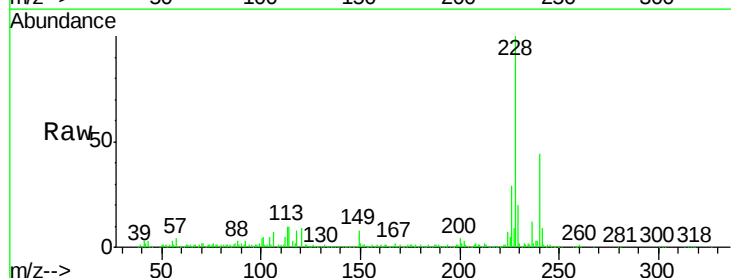
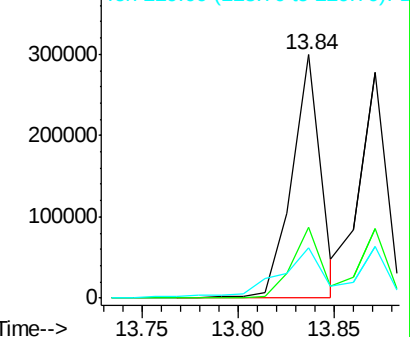
226 29.0 22.5 33.7

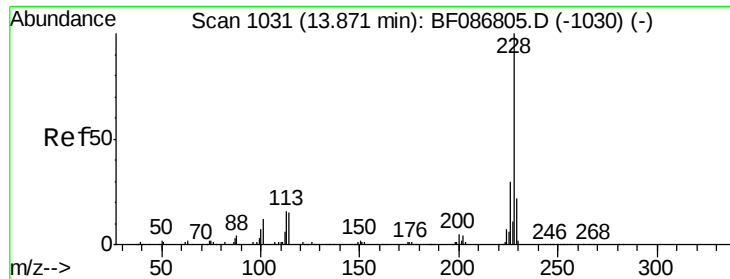
229 20.5 16.6 25.0

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: 13.41 ng m

RT: 13.87 min Scan# 1031

Delta R.T. -0.05 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Instrument :

BNA_F

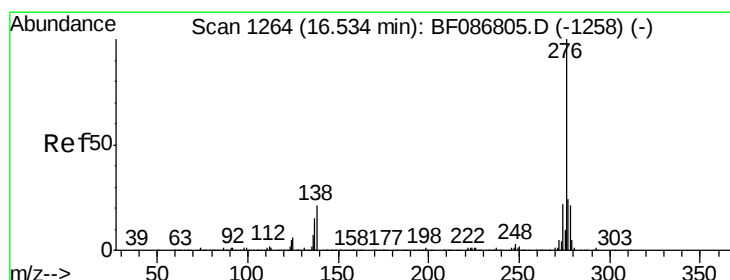
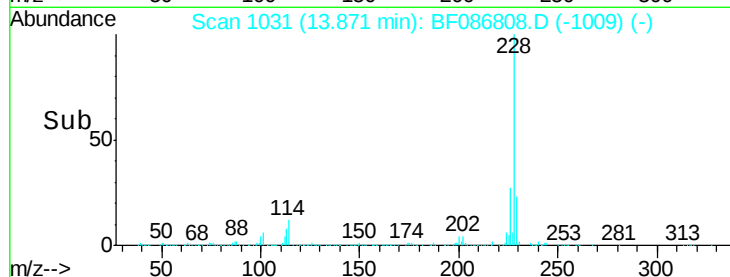
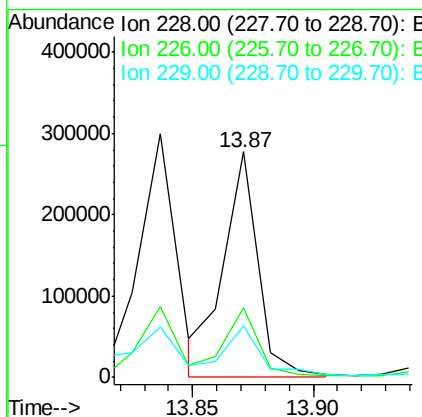
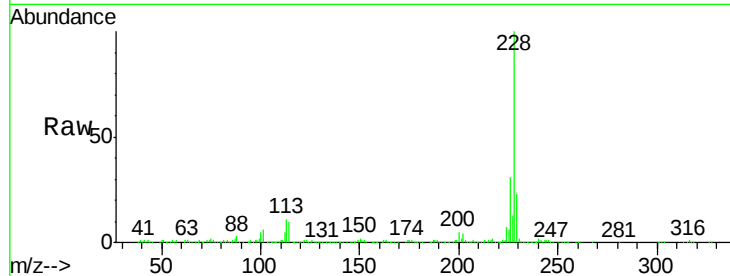
ClientSampled :

SS4

Tgt Ion:	228	Resp:	276469
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.4	36.6
229	22.9	15.8	23.8

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 6.81 ng

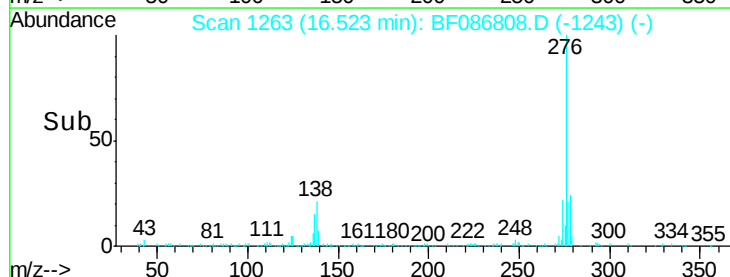
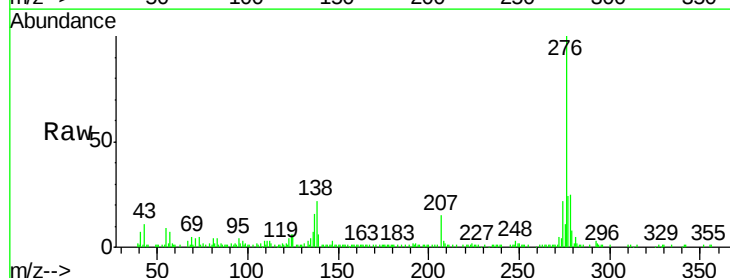
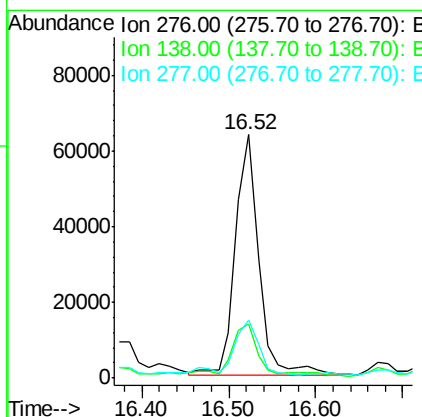
RT: 16.52 min Scan# 1263

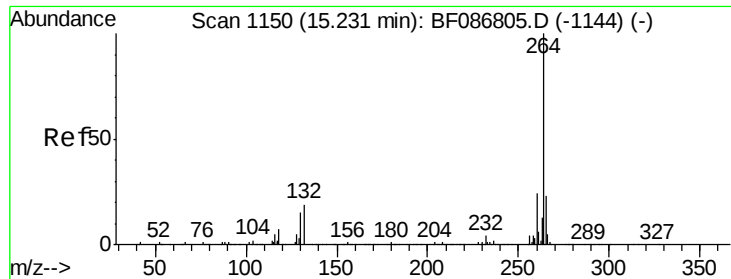
Delta R.T. -0.07 min

Lab File: BF086808.D

Acq: 8 May 2016 7:40

Tgt Ion:	276	Resp:	120407
Ion Ratio	Lower	Upper	
276	100		
138	21.1	25.6	38.4#
277	28.4	20.5	30.7





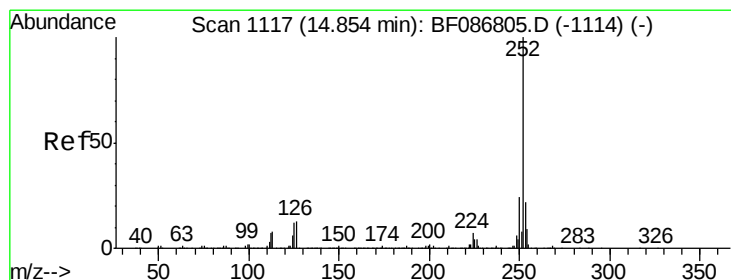
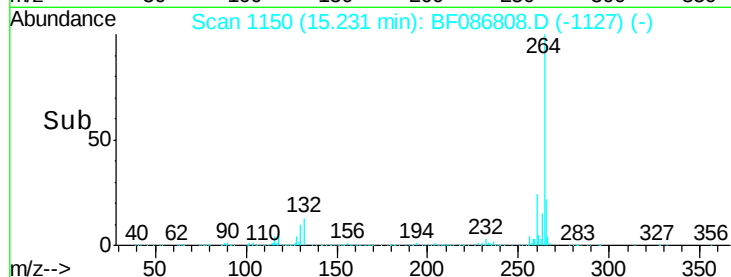
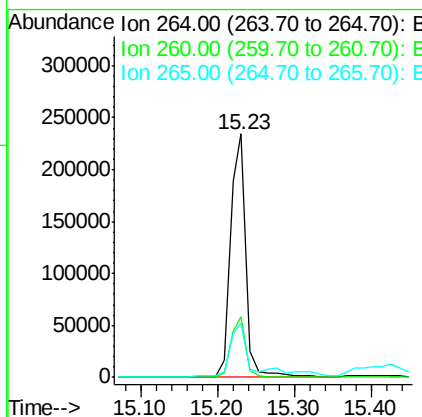
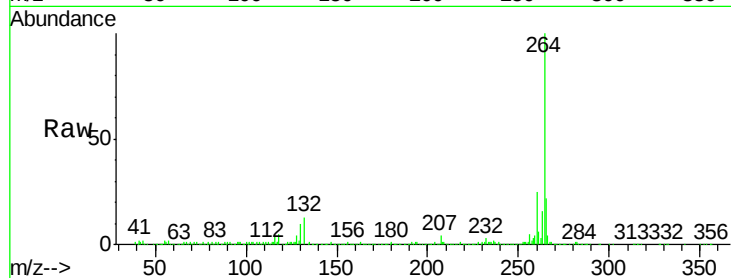
#86
Perylene-d12
Concen: 40.00 ng
RT: 15.23 min Scan# 1150
Delta R.T. -0.03 min
Lab File: BF086808.D
Acq: 8 May 2016 7:40

Instrument :
BNA_F
ClientSampleId :
SS4

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.7	19.5	29.3
265	22.1	17.3	25.9

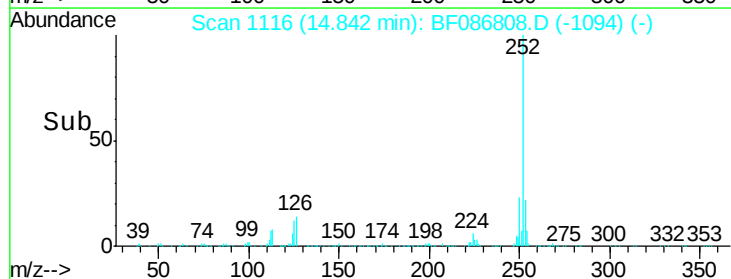
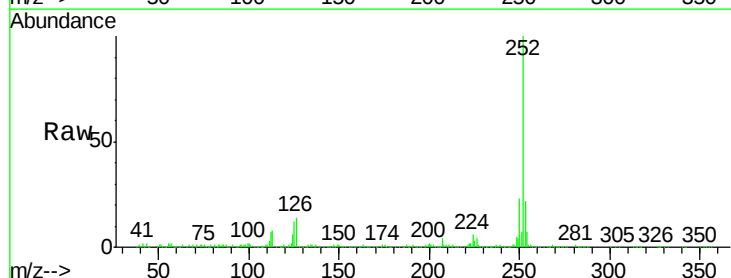
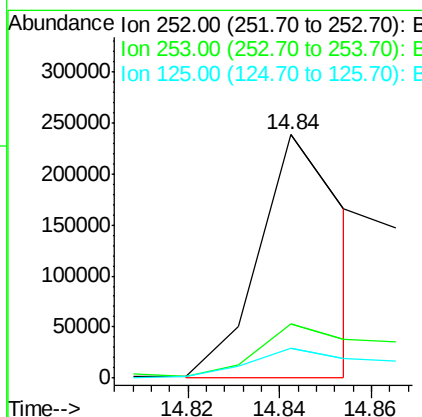
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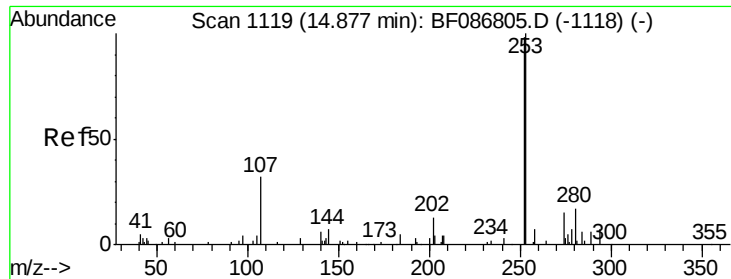
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#87
Benzo(b)fluoranthene
Concen: 15.48 ng m
RT: 14.84 min Scan# 1116
Delta R.T. -0.05 min
Lab File: BF086808.D
Acq: 8 May 2016 7:40

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.3	17.8	26.6
125	12.3	11.4	17.0





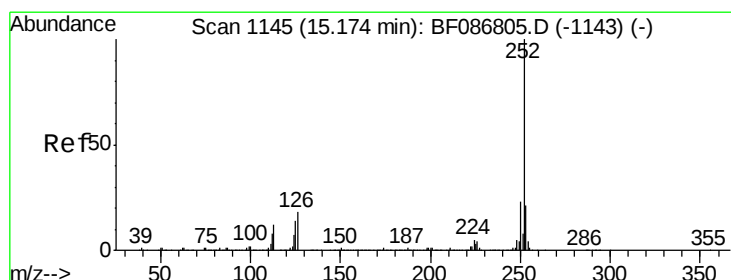
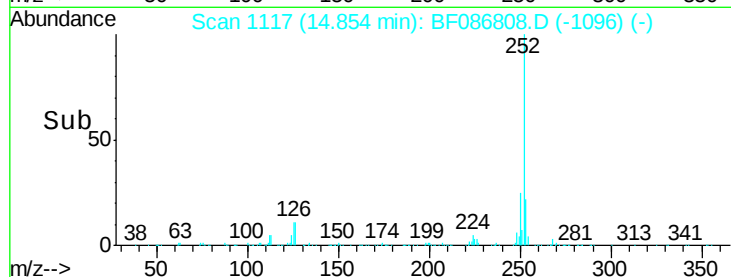
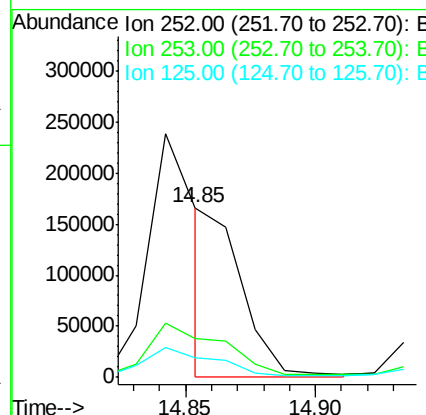
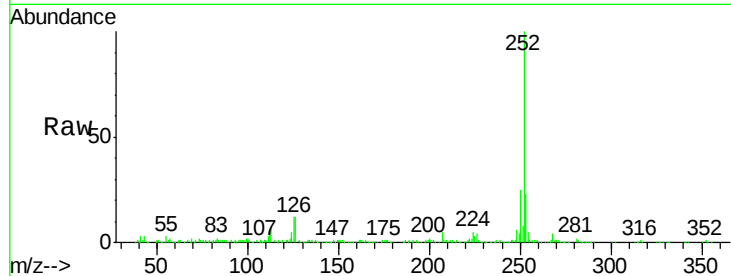
#88
Benzo(k)fluoranthene
Concen: 7.53 ng m
RT: 14.85 min Scan# 1117
Delta R.T. -0.06 min
Lab File: BF086808.D
Acq: 8 May 2016 7:40

Instrument :
BNA_F
ClientSampleId :
SS4

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	142927		
253	22.6	17.8	26.6	
125	11.6	9.1	13.7	

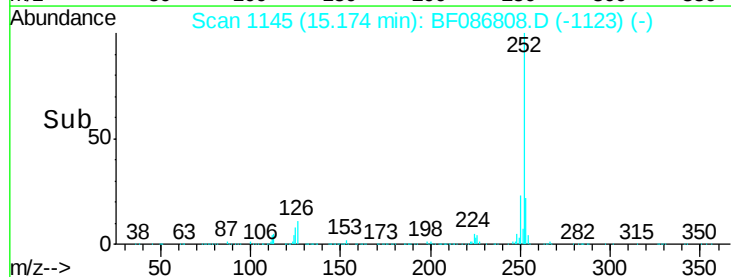
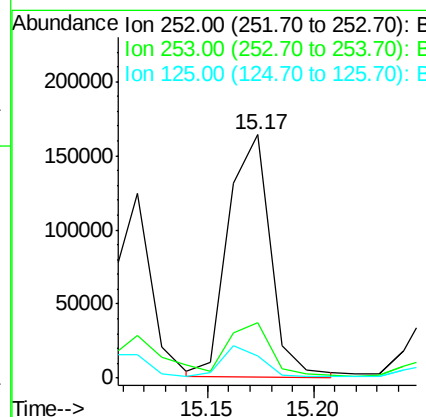
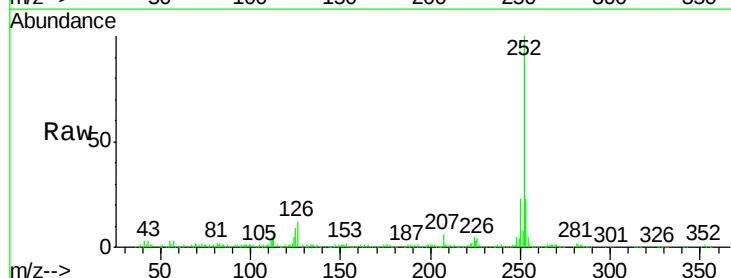
Manual Integrations
APPROVED

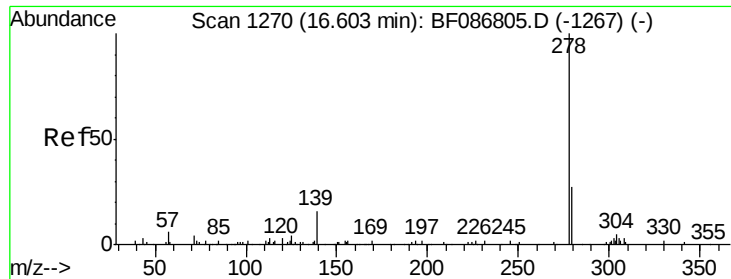
Sohil
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#89
Benzo(a)pyrene
Concen: 12.20 ng m
RT: 15.17 min Scan# 1145
Delta R.T. -0.05 min
Lab File: BF086808.D
Acq: 8 May 2016 7:40

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	226419		
253	22.9	17.2	25.8	
125	9.0	9.0	13.6	





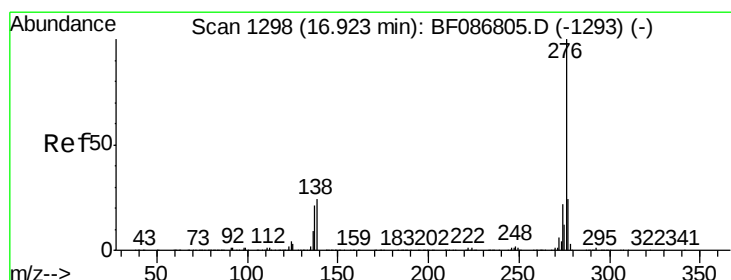
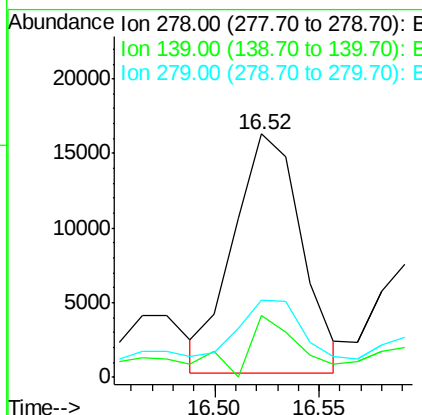
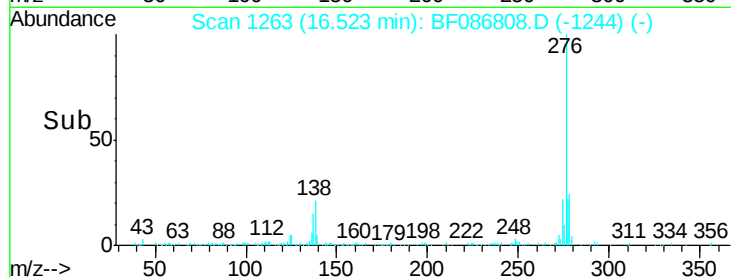
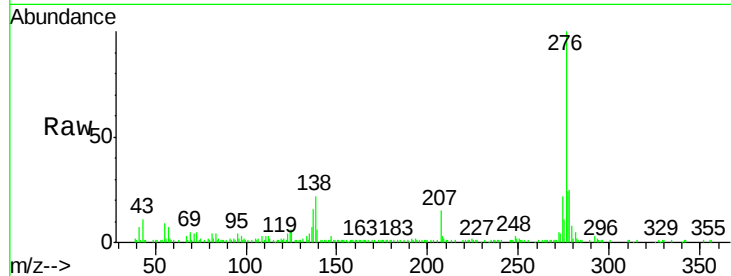
#90
Dibenzo(a,h)anthracene
Concen: 2.03 ng m
RT: 16.52 min Scan# 1263
Delta R.T. -0.08 min
Lab File: BF086808.D
Acq: 8 May 2016 7:40

Instrument :
BNA_F
ClientSampled :
SS4

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.5	16.6	24.8#
279	31.8	19.6	29.4#

Manual Integrations
APPROVED

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5/9/2016 7:20:27 PM



#91
Benzo(g,h,i)perylene
Concen: 5.11 ng
RT: 16.91 min Scan# 1297
Delta R.T. -0.08 min
Lab File: BF086808.D
Acq: 8 May 2016 7:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.6	29.4
138	22.4	23.6	35.4#

