

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
 Data File : BF088923.D
 Acq On : 12 Jul 2016 14:56
 Operator : UM/SJ
 Sample : H3948-04DL 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NC-04DL

Manual Integrations

APPROVED
 SOHIL
 7/13/2016 9:25:33 AM

Quant Time: Jul 12 16:15:50 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	64888	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	264102	20.00	ng	-0.01
38) Acenaphthene-d10	9.74	164	111485	20.00	ng	-0.01
63) Phenanthrene-d10	11.21	188	166729	20.00	ng	-0.01
75) Chrysene-d12	13.84	240	135084	20.00	ng	-0.01
86) Perylene-d12	15.21	264	145679	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	311372	71.92	ng	0.00
7) Phenol-d6	6.34	99	348393	62.28	ng	-0.01
23) Nitrobenzene-d5	7.27	82	252025	50.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	70740	68.33	ng	-0.01
44) 2-Fluorobiphenyl	9.06	172	362532	51.37	ng	-0.01
78) Terphenyl-d14	12.80	244	233052	38.43	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.01	128	30811	2.37	ng	98
37) 2-Methylnaphthalene	8.70	142	18608	2.22	ng	# 93
49) Dimethylphthalate	9.46	163	89227	11.23	ng	98
51) Acenaphthene	9.77	154	27870	3.94	ng	95
54) Dibenzofuran	9.94	168	30214	3.27	ng	91
57) Fluorene	10.28	166	46886	6.58	ng	99
70) Phenanthrene	11.23	178	397871	43.65	ng	99
71) Anthracene	11.29	178	120056	13.25	ng	97
72) Carbazole	11.44	167	21116	2.48	ng	96
74) Fluoranthene	12.42	202	446370	48.31	ng	98
77) Pyrene	12.65	202	421184	36.77	ng	98
80) Benzo(a)anthracene	13.83	228	222793	25.61	ng	99
82) Chrysene	13.86	228	146913m	17.07	ng	
85) Indeno(1,2,3-cd)pyrene	16.50	276	85133	12.86	ng	# 100
87) Benzo(b)fluoranthene	14.83	252	203243m	22.24	ng	
88) Benzo(k)fluoranthene	14.85	252	83413m	10.48	ng	
89) Benzo(a)pyrene	15.15	252	159112	20.56	ng	98
90) Dibenzo(a,h)anthracene	16.50	278	29541	4.57	ng	# 89
91) Benzo(a,h,i)perylene	16.89	276	78614	11.76	ng	# 93

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

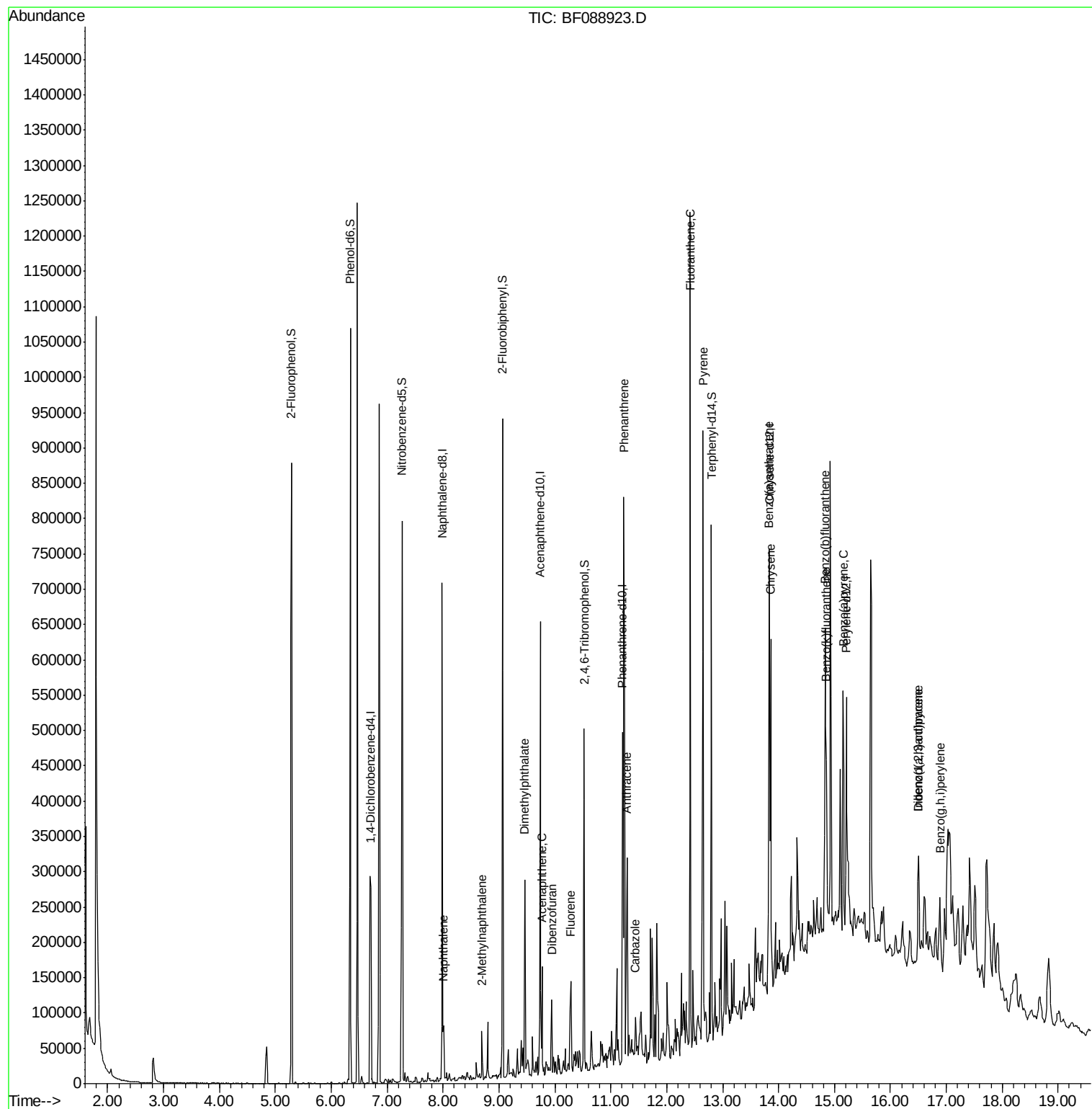
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088923.D
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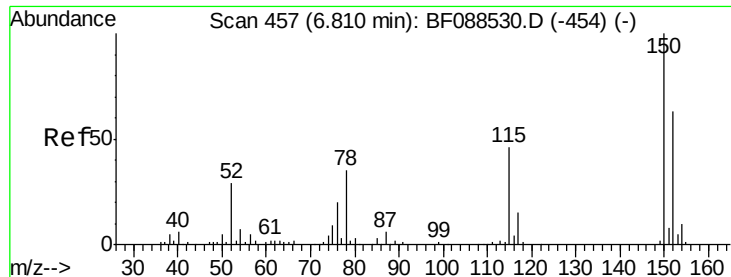
Instrument :
BNA_F
ClientSampleId :
NC-04DL

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Quant Time: Jul 12 16:15:50 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

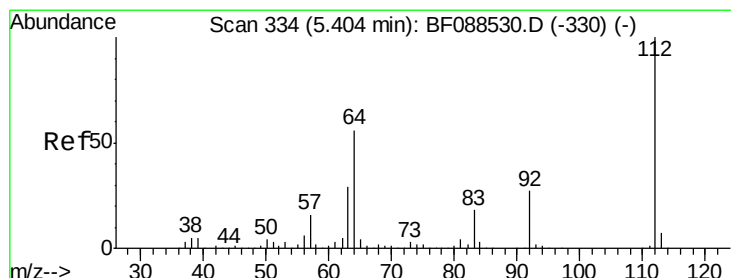
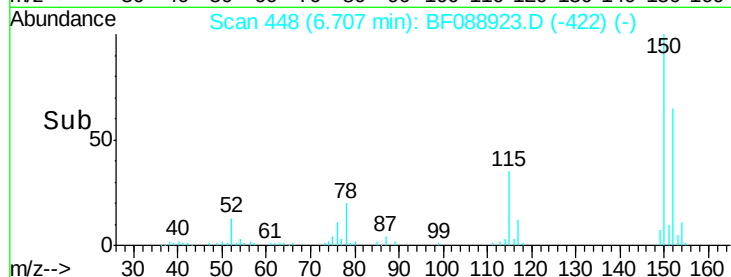
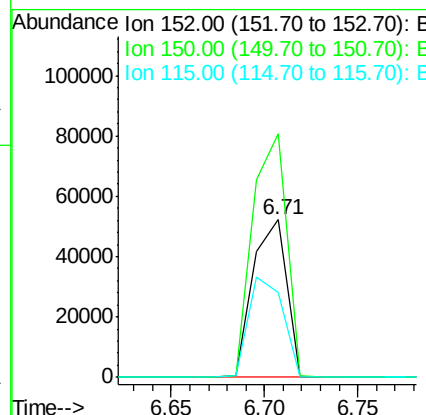
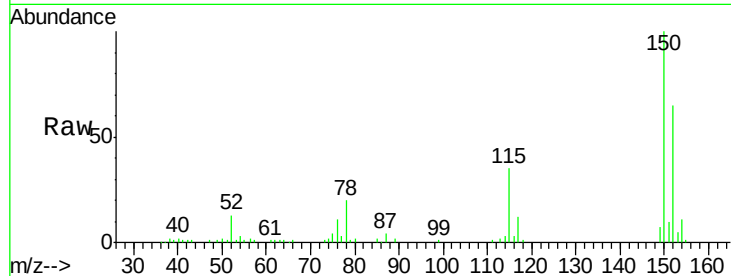
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.71 min Scan# 448
Delta R.T. -0.00 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Instrument :
BNA_F
ClientSampled :
NC-04DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	123.8	185.6
115	53.7	39.6	59.4

Manual Integrations

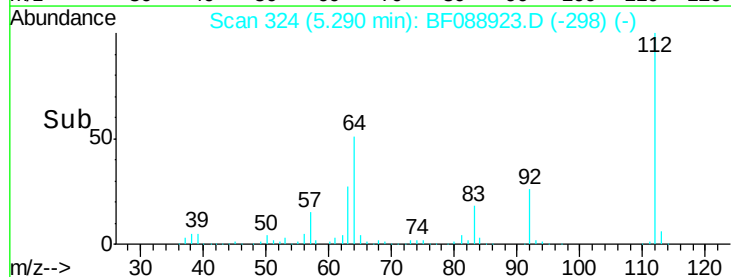
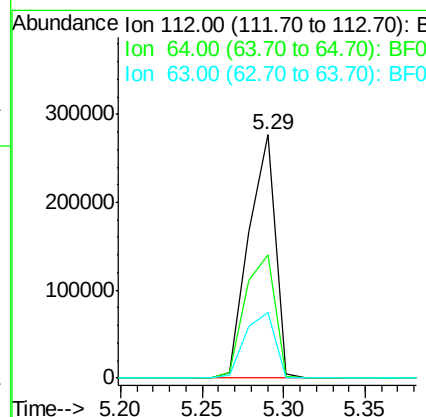
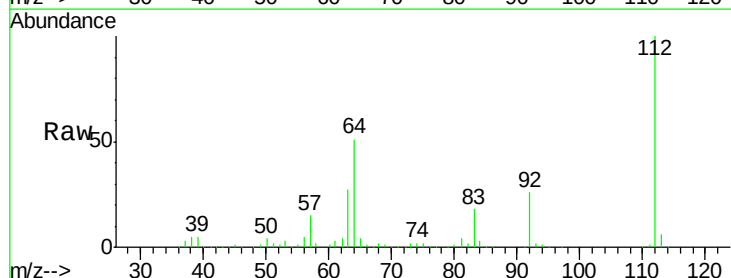
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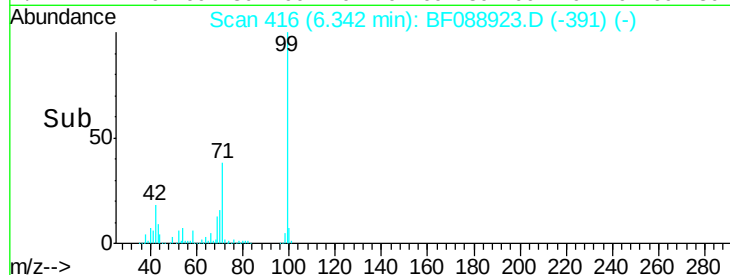
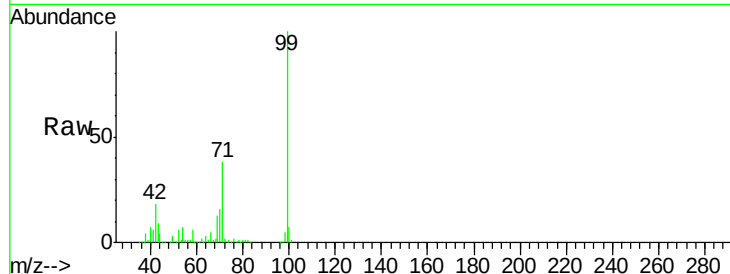
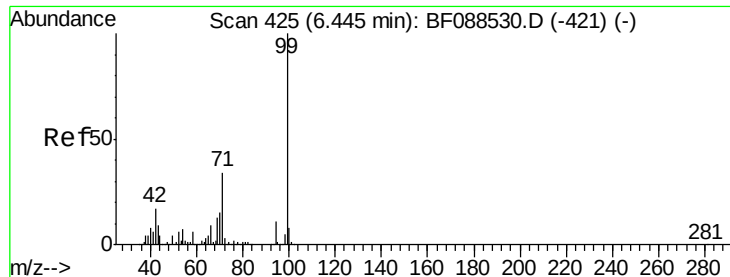


#5

2-Fluorophenol
Concen: 71.92 ng
RT: 5.29 min Scan# 324
Delta R.T. -0.00 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.6	42.2	63.2
63	26.8	21.8	32.8





#7

Phenol-d6

Concen: 62.28 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Tot Ion:	99	Resp:	348393
Ion	Ratio	Lower	Upper
99	100		
42	18.5	12.2	18.2#
71	38.3	23.4	35.0#

Instrument :

BNA_F

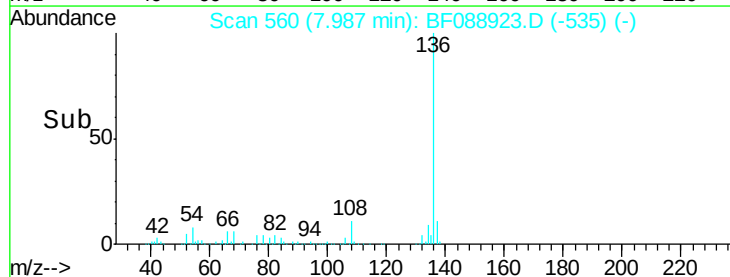
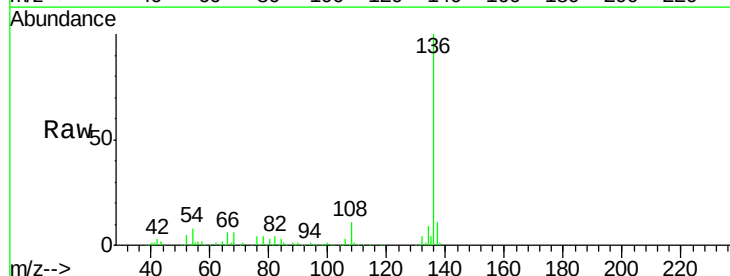
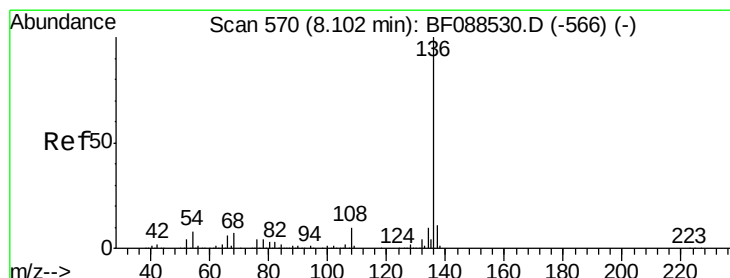
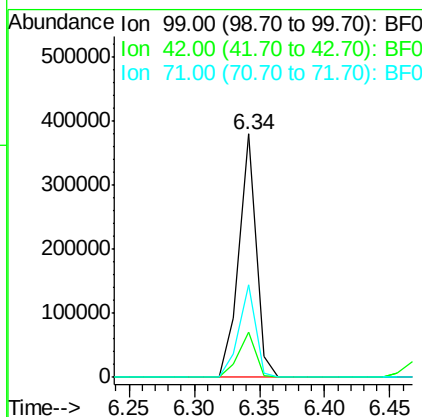
ClientSampleId :

NC-04DL

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.00 ng

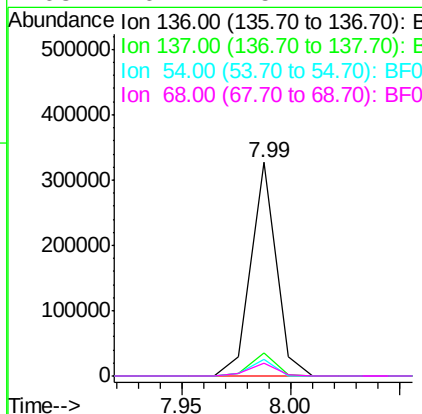
RT: 7.99 min Scan# 560

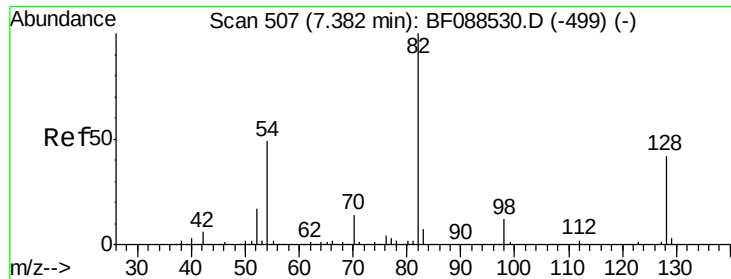
Delta R.T. -0.01 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Tgt Ion:	136	Resp:	264102
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	7.9	6.6	10.0
68	6.1	5.1	7.7





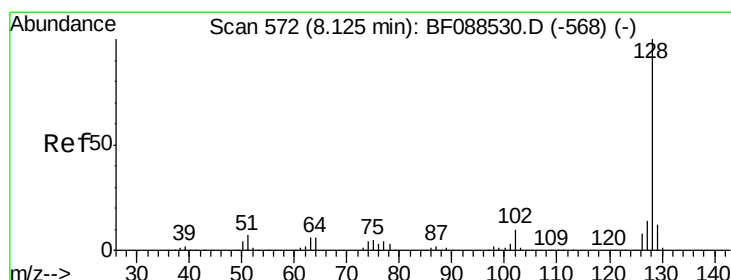
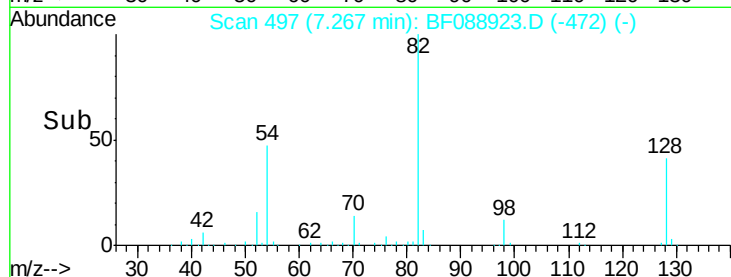
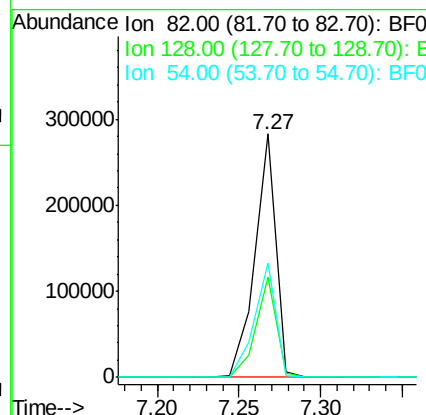
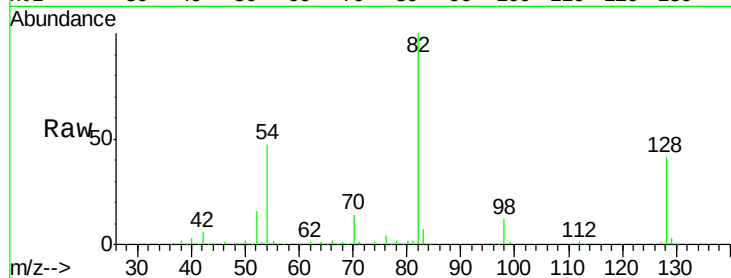
#23
Nitrobenzene-d5
Concen: 50.01 ng
RT: 7.27 min Scan# 497
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Instrument :
BNA_F
ClientSampled :
NC-04DL

Tot Ion	82	Resp	252025
Ion Ratio	100	Lower	Upper
82	100		
128	41.2	35.9	53.9
54	47.0	40.9	61.3

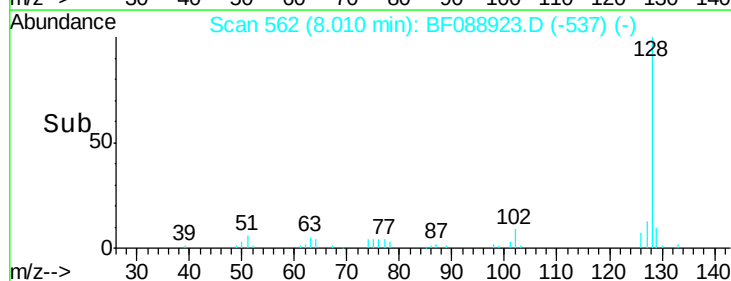
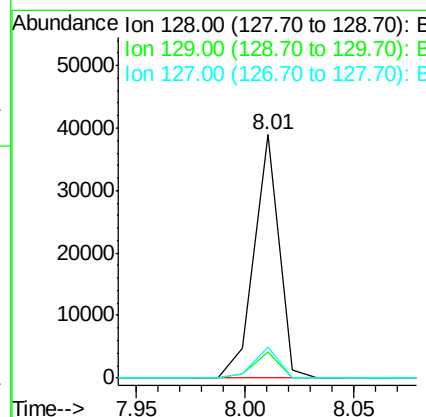
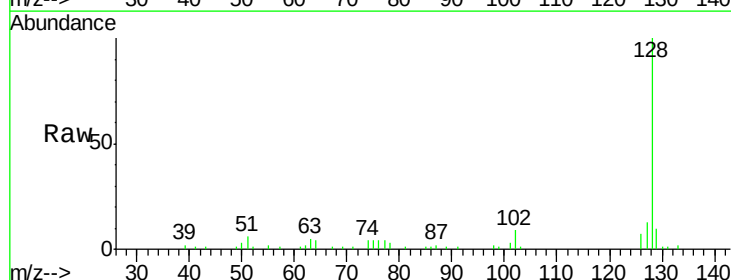
Manual Integrations

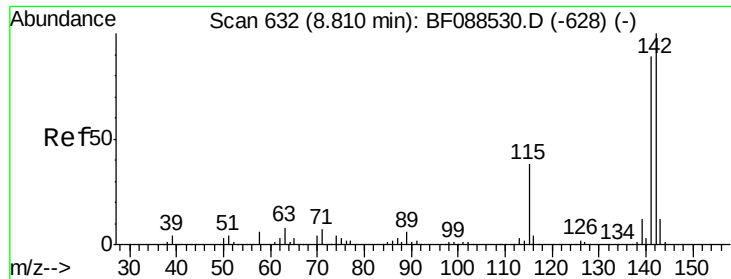
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#31
Naphthalene
Concen: 2.37 ng
RT: 8.01 min Scan# 562
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Tgt Ion	128	Resp	30811
Ion Ratio	100	Lower	Upper
128	100		
129	10.5	9.4	14.2
127	13.0	10.9	16.3





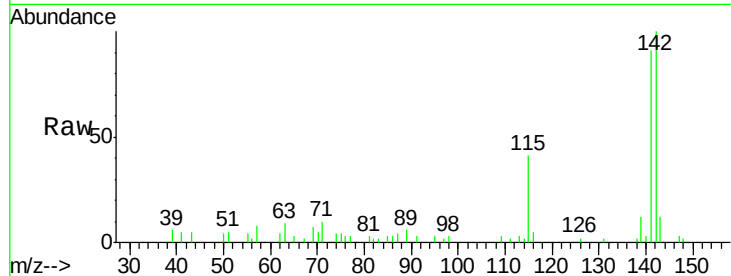
#37
 2-Methylnaphthalene
 Concen: 2.22 ng
 RT: 8.70 min Scan# 622
 Delta R.T. -0.01 min
 Lab File: BF088923.D
 Acq: 12 Jul 2016 14:56

Instrument :
 BNA_F
 ClientSampleID :
 NC-04DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.6	71.0	106.6
115	40.8	22.6	33.8

Manual Integrations

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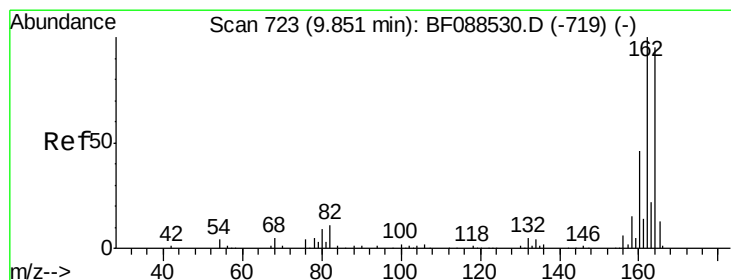
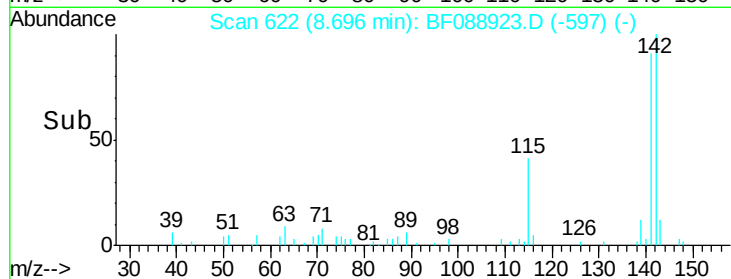
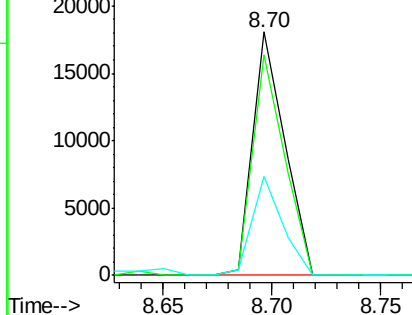


Abundance

Ion 142.00 (141.70 to 142.70): E

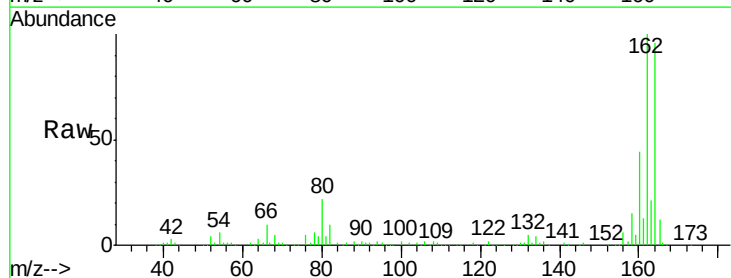
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.74 min Scan# 713
 Delta R.T. -0.01 min
 Lab File: BF088923.D
 Acq: 12 Jul 2016 14:56

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	85.4	128.2
160	46.0	39.5	59.3

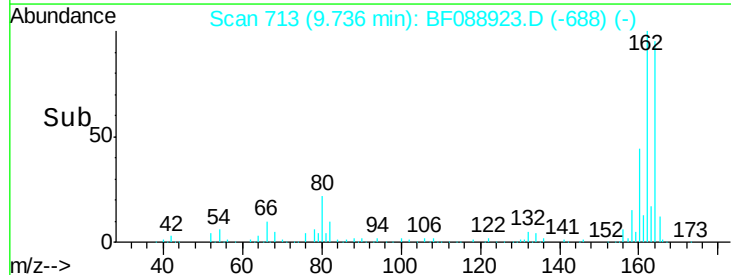
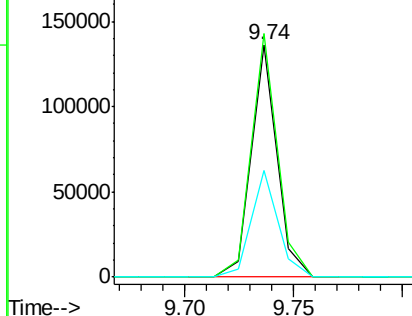


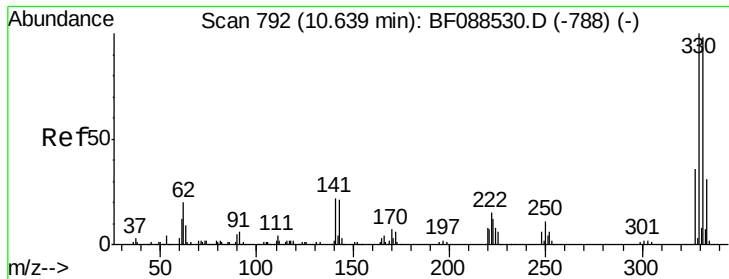
Abundance

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





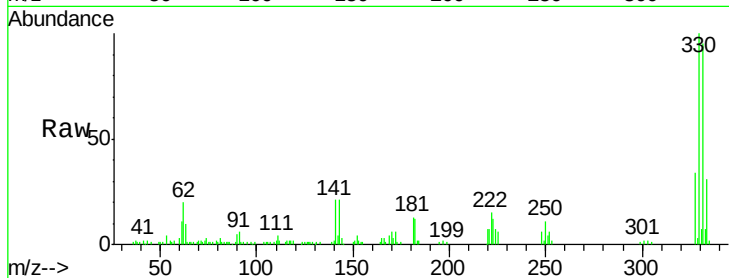
#41
 2,4,6-Tribromophenol
 Concen: 68.33 ng
 RT: 10.52 min Scan# 782
 Delta R.T. -0.01 min
 Lab File: BF088923.D
 Acq: 12 Jul 2016 14:56

Instrument :
 BNA_F
 ClientSampled :
 NC-04DL

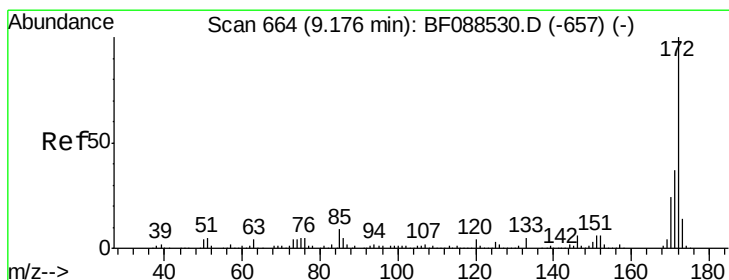
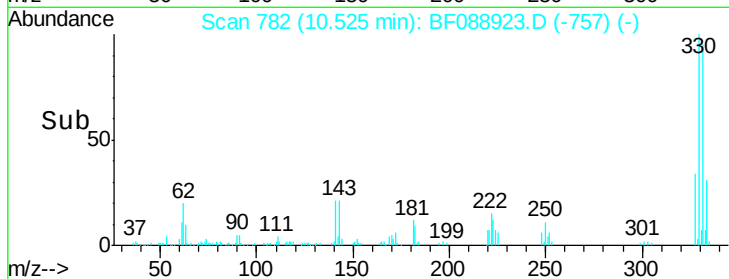
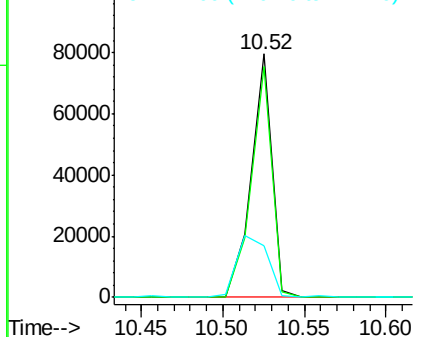
Tot Ion	Ratio	Lower	Upper
330	100		
332	94.1	0.0	0.0#
141	38.5	0.0	0.0#

Manual Integrations

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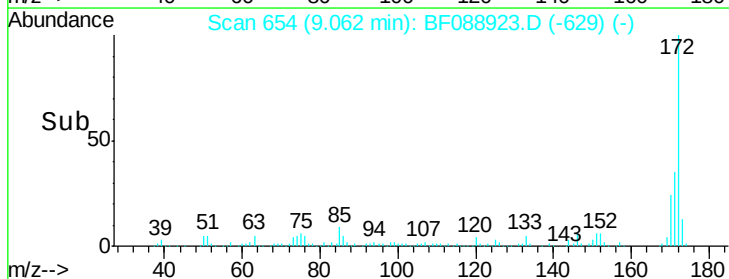
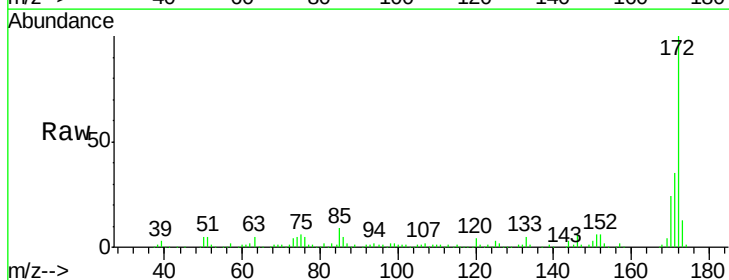
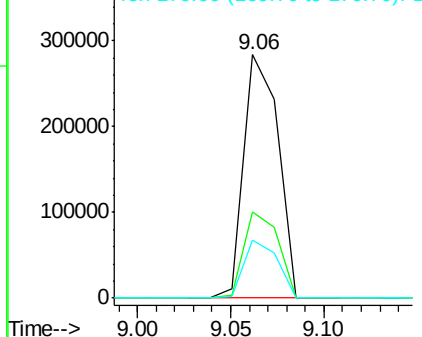
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

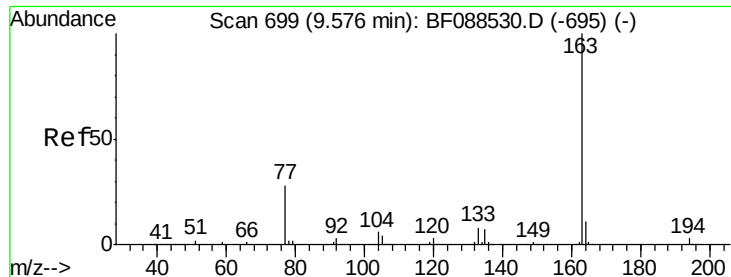


#44
 2-Fluorobiphenyl
 Concen: 51.37 ng
 RT: 9.06 min Scan# 654
 Delta R.T. -0.01 min
 Lab File: BF088923.D
 Acq: 12 Jul 2016 14:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.6	19.2	28.8

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 11.23 ng

RT: 9.46 min Scan# 689

Delta R.T. -0.02 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Instrument :

BNA_F

ClientSampleId :

NC-04DL

Tot Ion:163 Resp: 89227

Ion Ratio Lower Upper

163 100

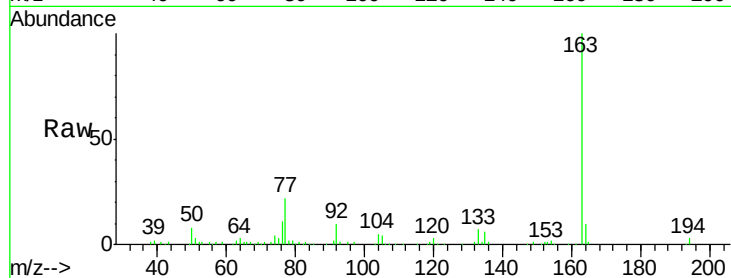
194 3.3 2.8 4.2

164 9.6 8.3 12.5

Manual Integrations

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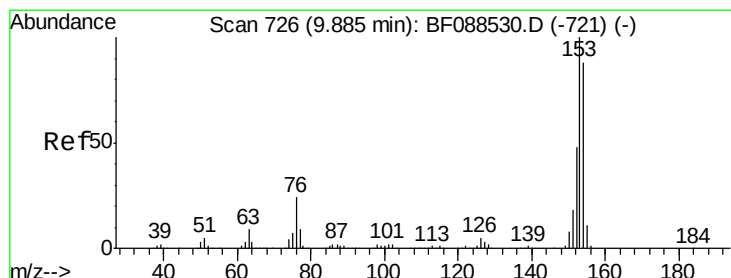
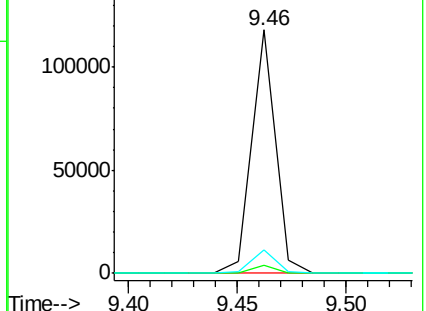
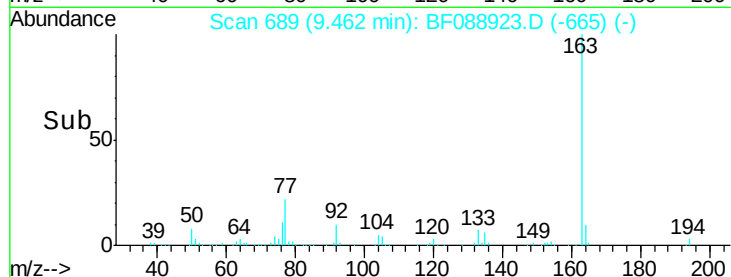
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Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 3.94 ng

RT: 9.77 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

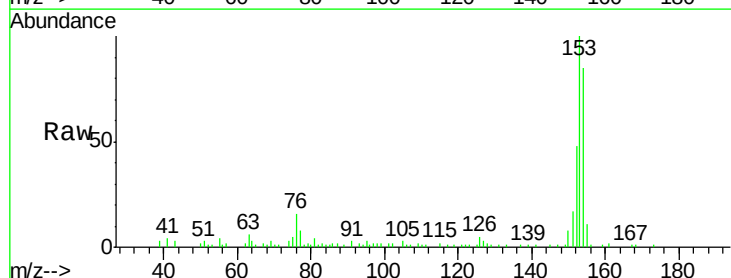
Tgt Ion:154 Resp: 27870

Ion Ratio Lower Upper

154 100

153 117.3 89.5 134.3

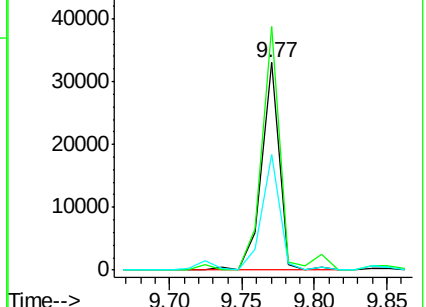
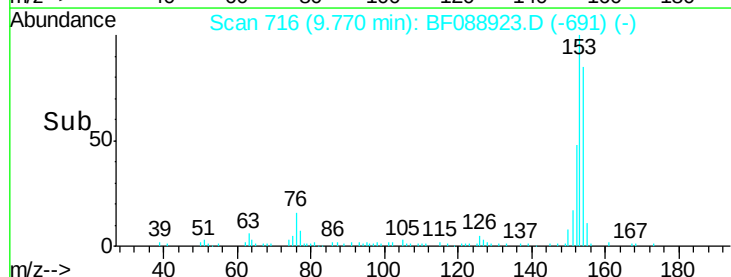
152 55.8 42.7 64.1

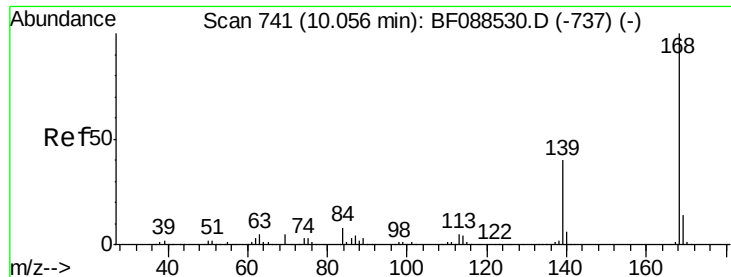


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





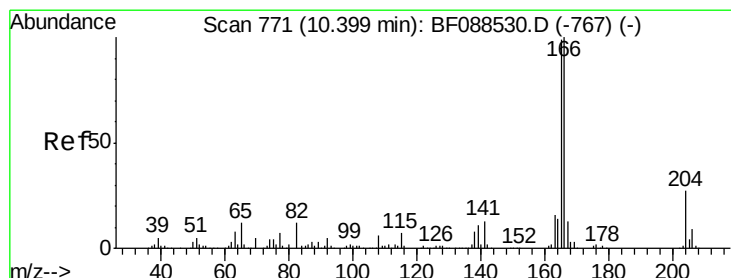
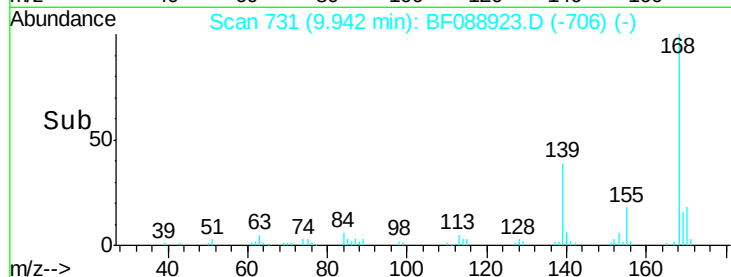
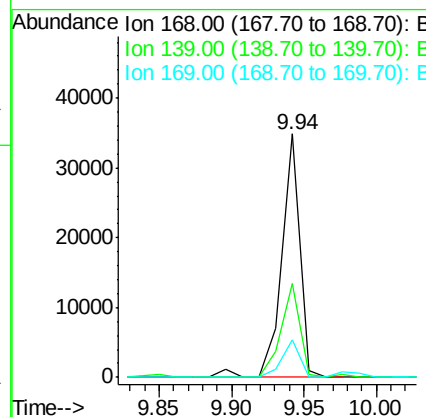
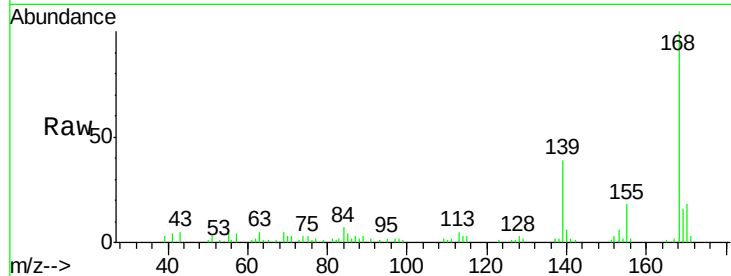
#54
Dibenzenofuran
Concen: 3.27 ng
RT: 9.94 min Scan# 731
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Instrument :
BNA_F
ClientSampleId :
NC-04DL

Tot Ion:168 Resp: 30214
Ion Ratio Lower Upper
168 100
139 38.6 26.4 39.6
169 15.6 10.4 15.6

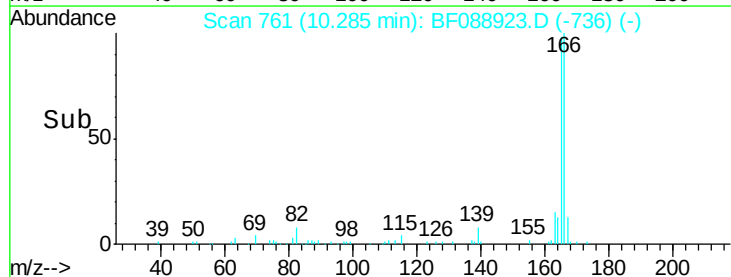
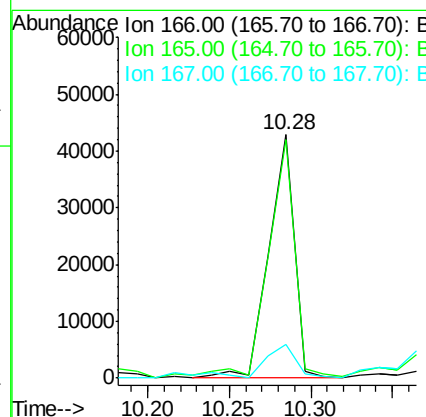
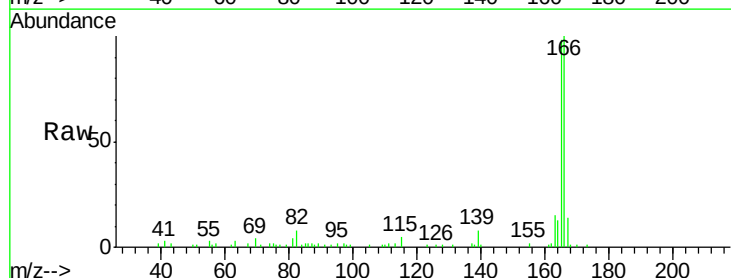
Manual Integrations

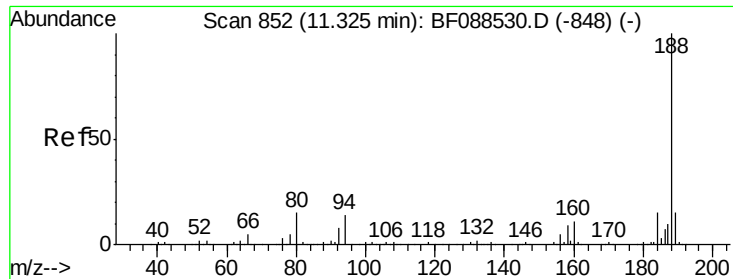
APPROVED
SOHIL
7/13/2016 9:25:33 AM



#57
Fluorene
Concen: 6.58 ng
RT: 10.28 min Scan# 761
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Tgt Ion:166 Resp: 46886
Ion Ratio Lower Upper
166 100
165 98.0 77.8 116.8
167 13.8 11.2 16.8





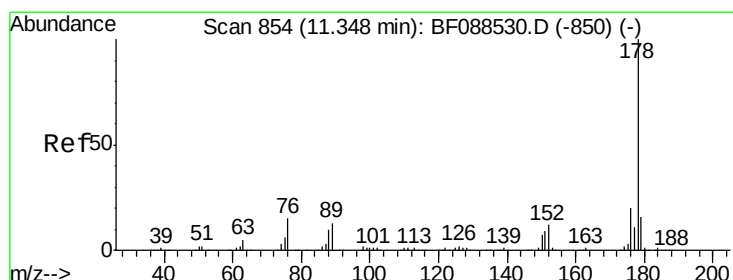
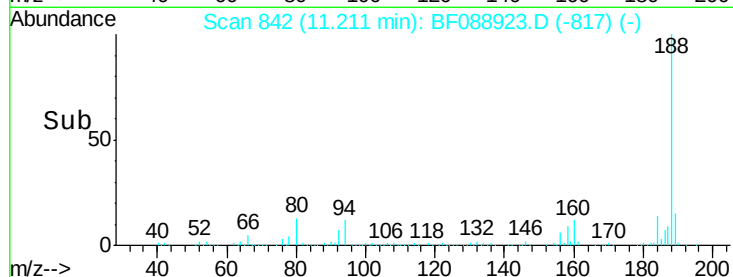
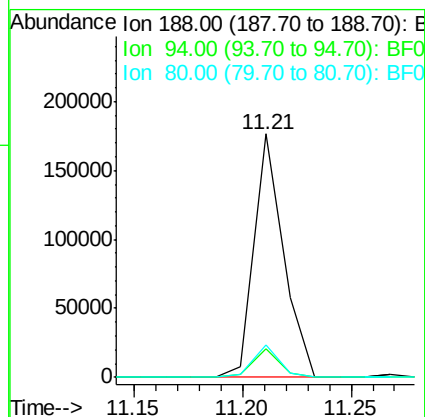
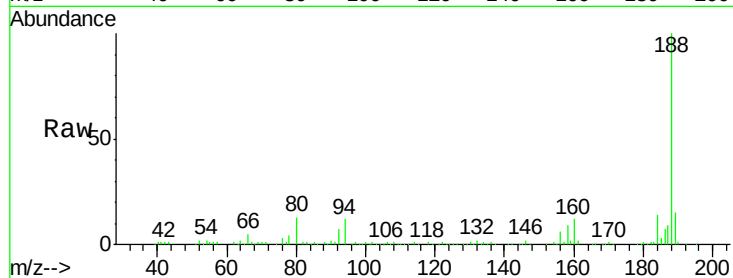
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Instrument :
BNA_F
ClientSampleId :
NC-04DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	166729		
94	11.9		9.0	13.6
80	13.3		10.0	15.0

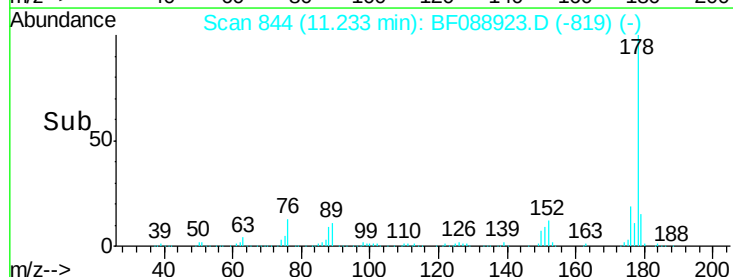
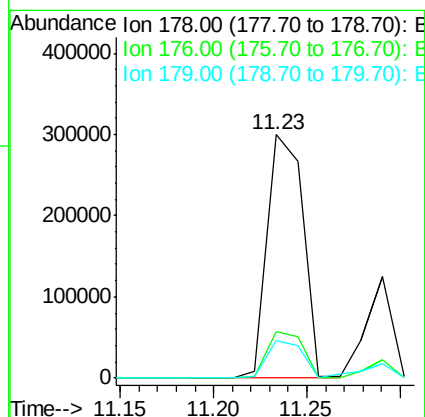
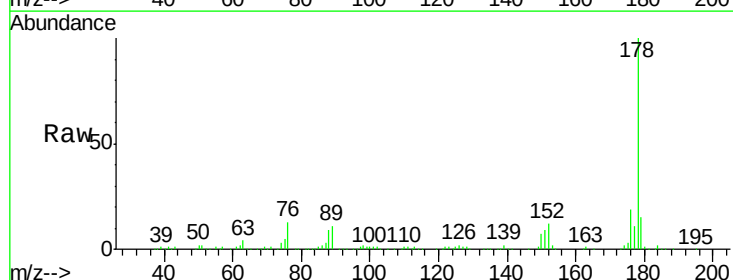
Manual Integrations

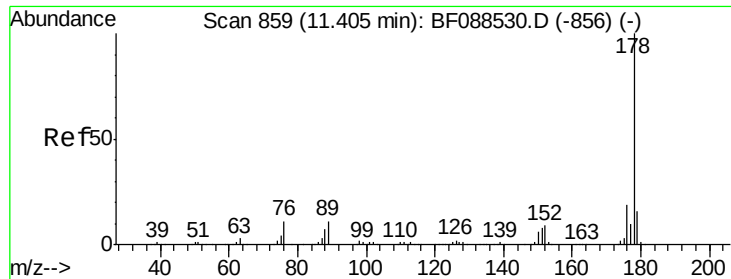
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7/13/2016 9:25:33 AM



#70
Phenanthrene
Concen: 43.65 ng
RT: 11.23 min Scan# 844
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	397871		
176	19.2		15.8	23.6
179	15.5		13.0	19.4





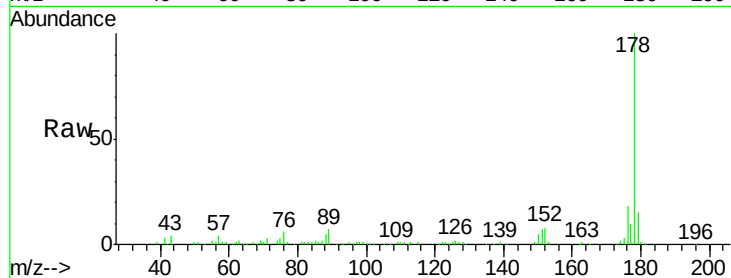
#71
 Anthracene
 Concen: 13.25 ng
 RT: 11.29 min Scan# 849
 Delta R.T. -0.01 min
 Lab File: BF088923.D
 Acq: 12 Jul 2016 14:56

Instrument :
 BNA_F
 ClientSampleId :
 NC-04DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.6	23.4
179	14.8	12.8	19.2

Manual Integrations

SOHIL
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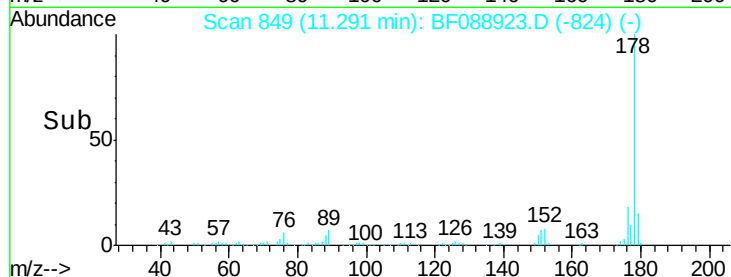


Abundance

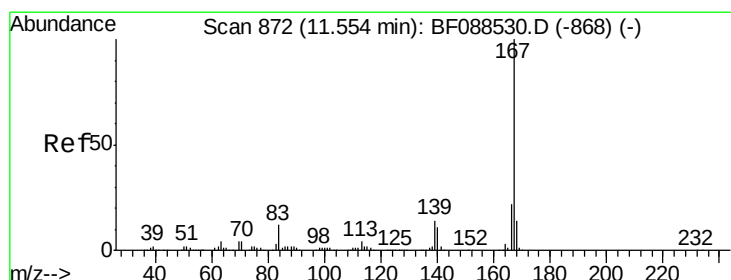
Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

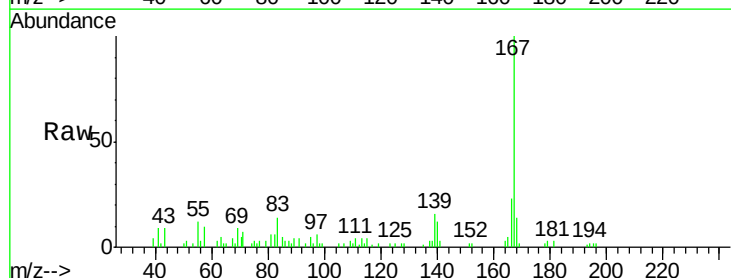


Time-->



#72
 Carbazole
 Concen: 2.48 ng
 RT: 11.44 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: BF088923.D
 Acq: 12 Jul 2016 14:56

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.3	17.8	26.6
139	16.4	11.2	16.8

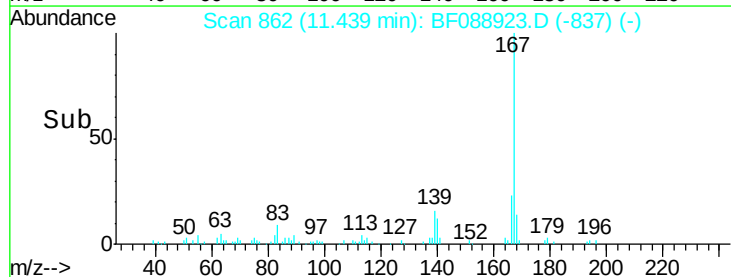


Abundance

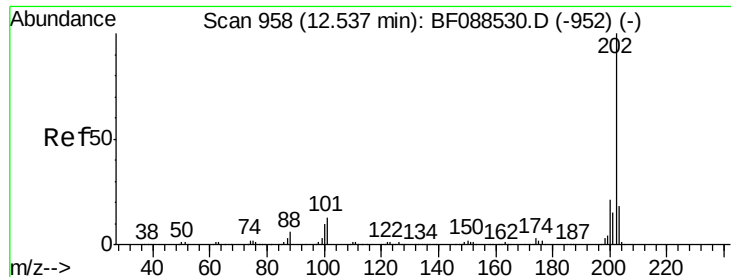
Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time-->



#74

Fluoranthene

Concen: 48.31 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.00 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Instrument :

BNA_F

ClientSampleId :

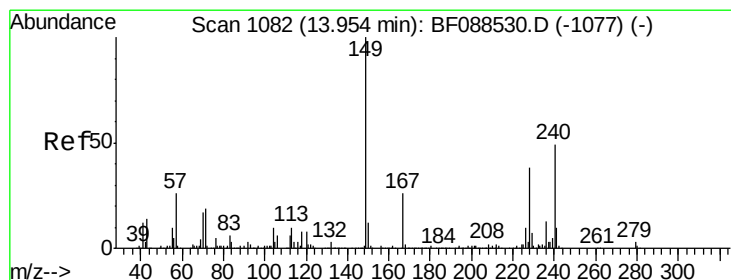
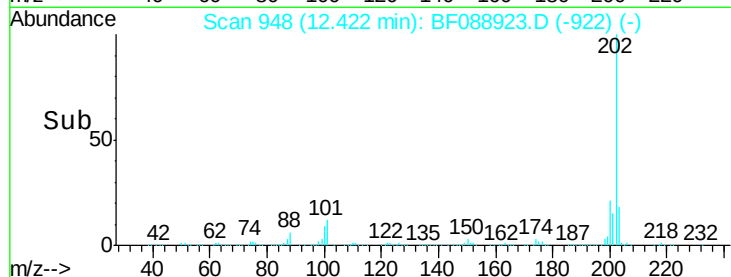
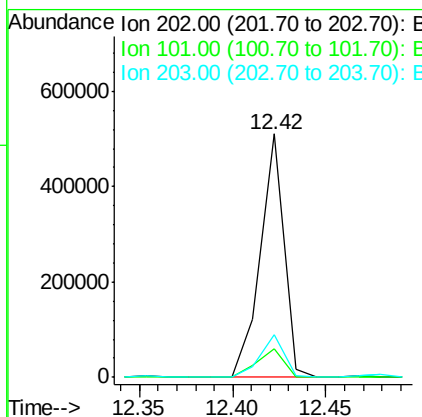
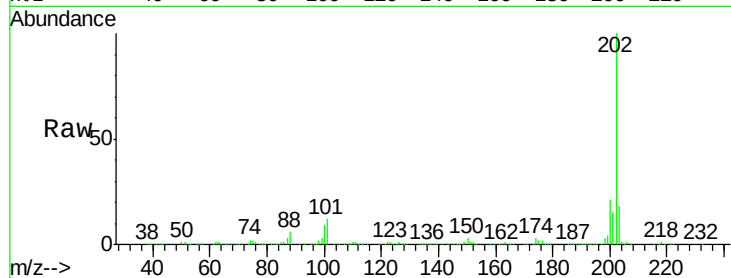
NC-04DL

Tot Ion:	202	Resp:	446370
Ion Ratio	Lower	Upper	
202	100		
101	11.6	0.0	33.1
203	17.7	0.0	38.1

Manual Integrations

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#75

Chrysene-d12

Concen: 20.00 ng

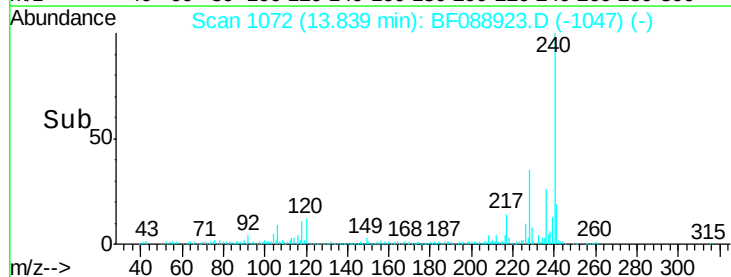
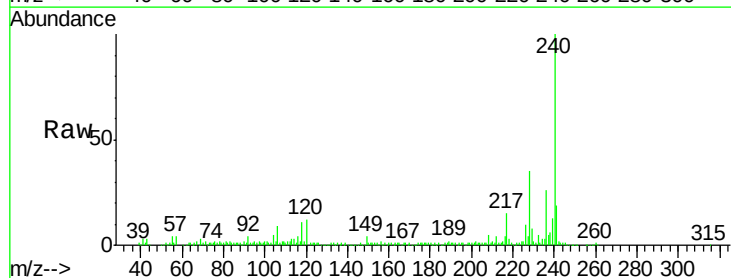
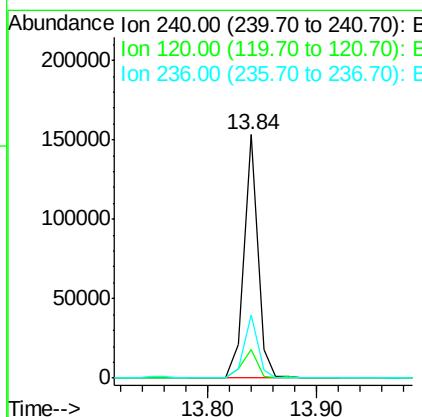
RT: 13.84 min Scan# 1072

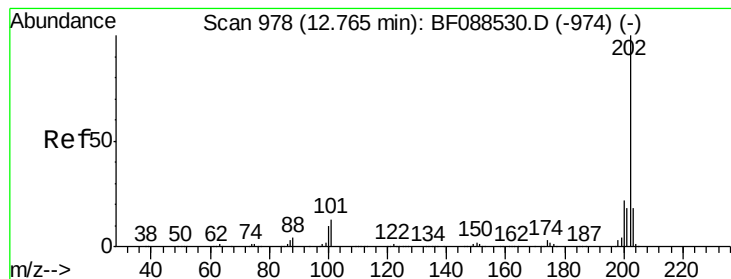
Delta R.T. -0.01 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Tgt Ion:	240	Resp:	135084
Ion Ratio	Lower	Upper	
240	100		
120	11.8	6.8	10.2#
236	25.9	20.2	30.2





#77

Pvrene

Concen: 36.77 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.00 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Instrument :

BNA_F

ClientSampled :

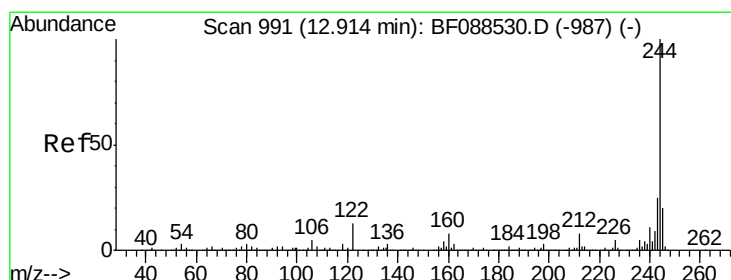
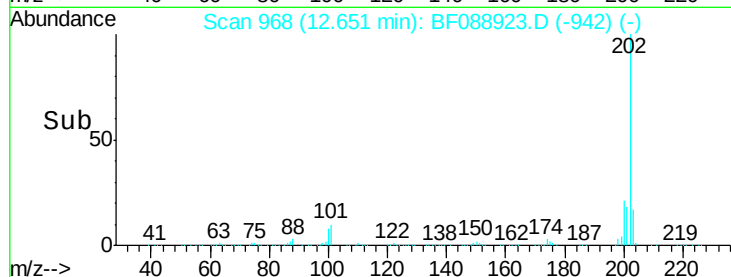
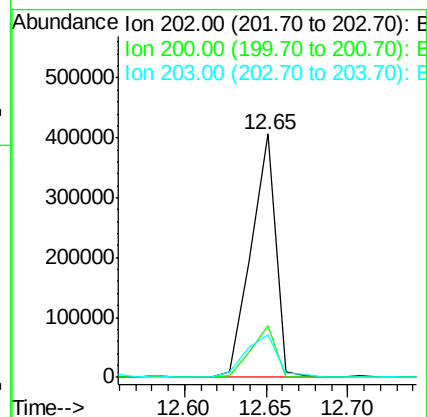
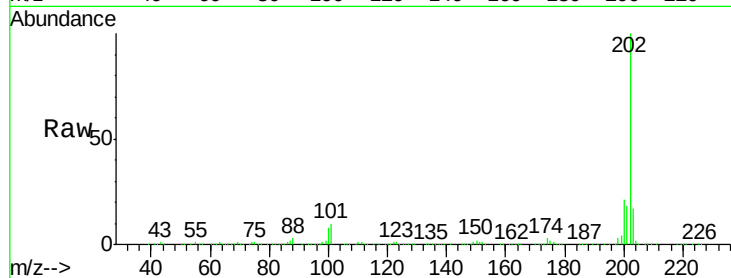
NC-04DL

Tot Ion:	202	Resp:	421184
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.4	26.2
203	17.3	14.5	21.7

Manual Integrations

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#78

Terphenyl-d14

Concen: 38.43 ng

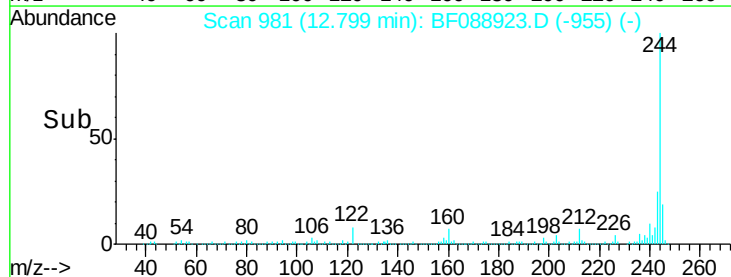
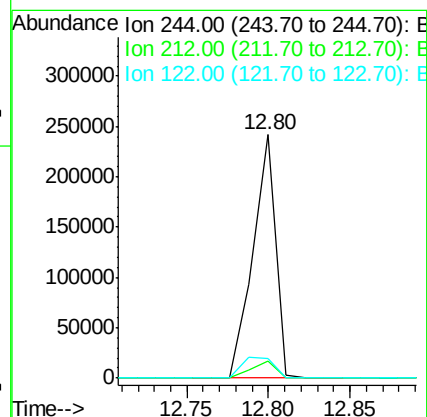
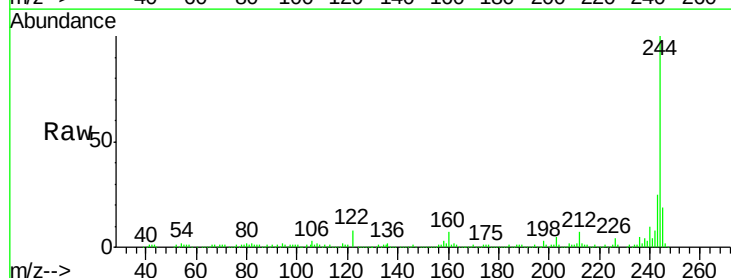
RT: 12.80 min Scan# 981

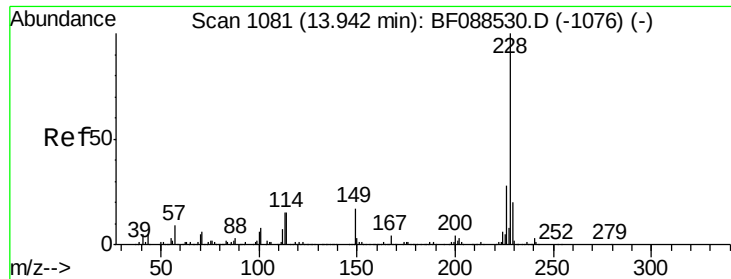
Delta R.T. -0.00 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Tgt Ion:	244	Resp:	233052
Ion Ratio	Lower	Upper	
244	100		
212	7.1	6.0	9.0
122	8.3	11.2	16.8#





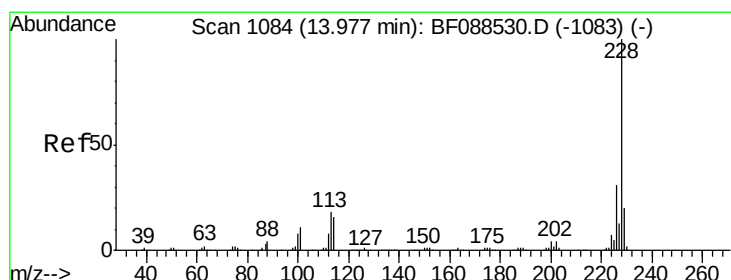
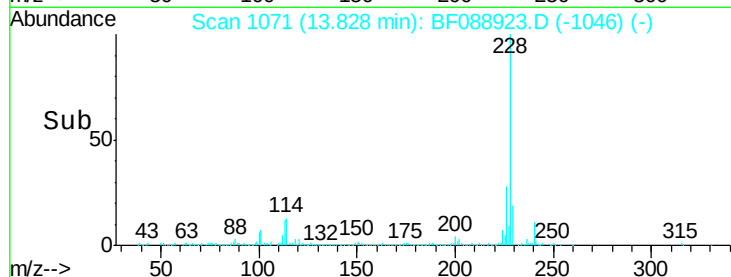
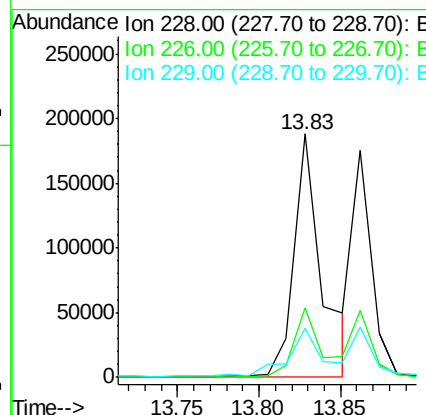
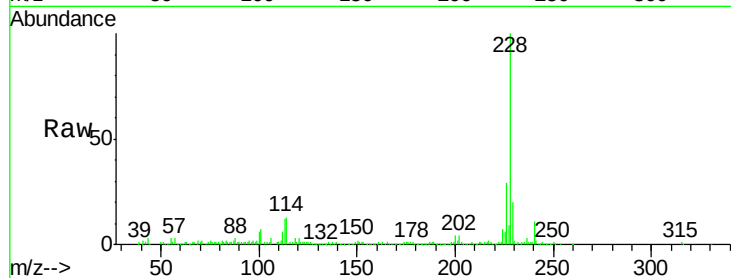
#80
Benzo(a)anthracene
Concen: 25.61 ng
RT: 13.83 min Scan# 1071
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Instrument :
BNA_F
ClientSampleID :
NC-04DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.3	33.5
229	20.1	16.0	24.0

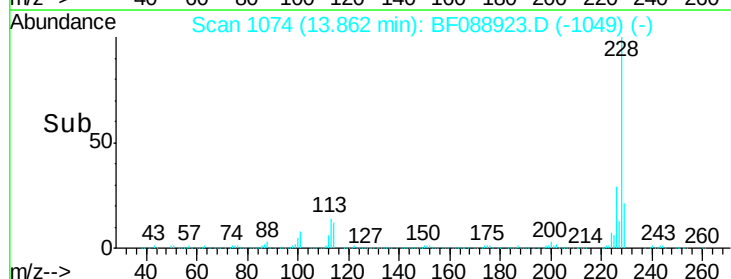
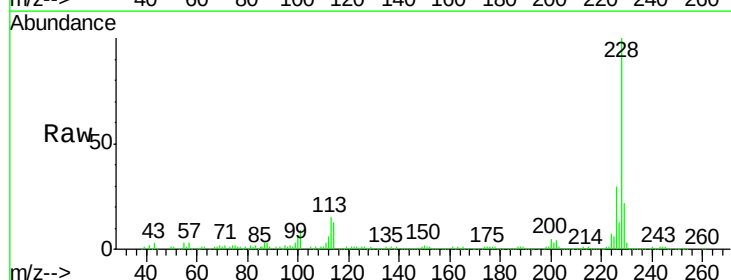
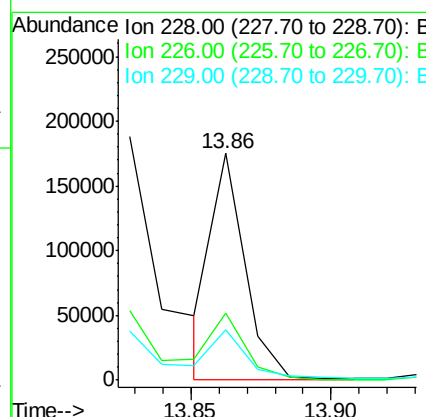
Manual Integrations

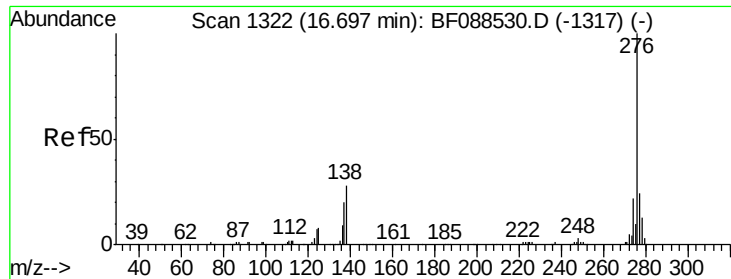
APPROVED
SOHIL
7/13/2016 9:25:33 AM



#82
Chrysene
Concen: 17.07 ng m
RT: 13.86 min Scan# 1074
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	25.4	38.2
229	22.1	16.3	24.5





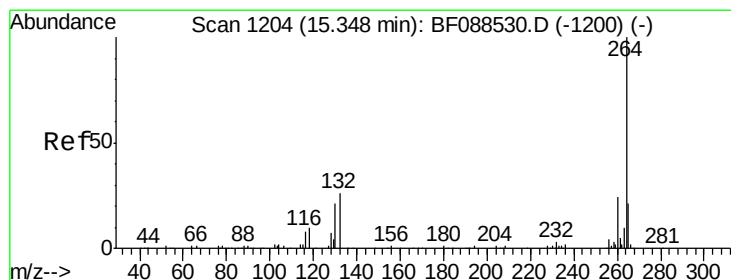
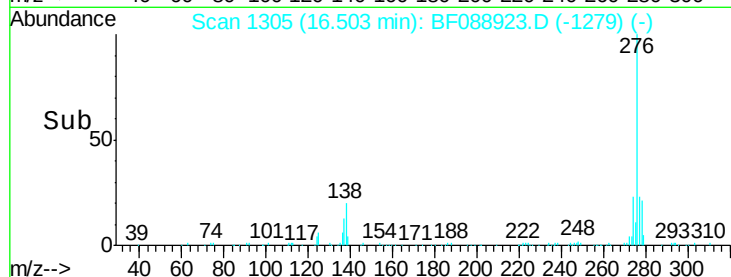
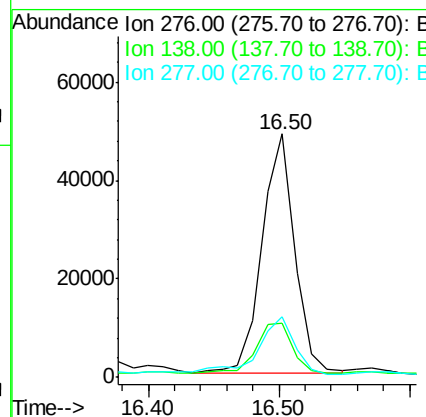
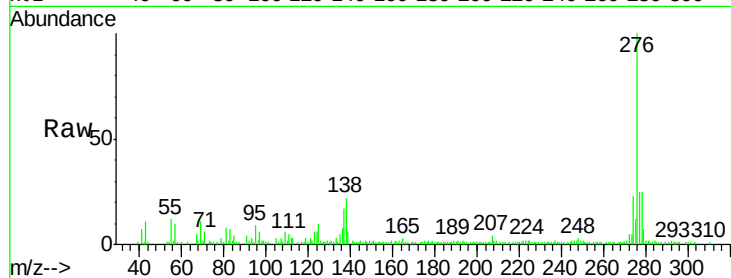
#85
Indeno(1,2,3-cd)pyrene
Concen: 12.86 ng
RT: 16.50 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Instrument :
BNA_F
ClientSampleId :
NC-04DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.9	0.0	0.0#
277	28.1	0.0	0.0#

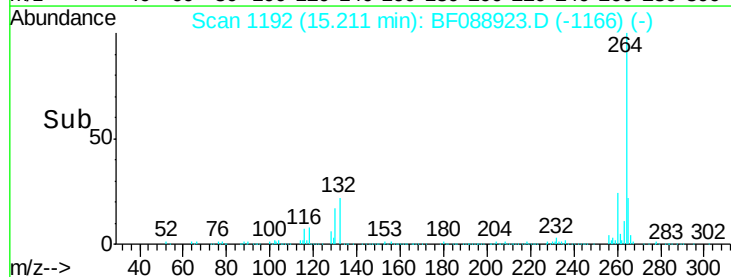
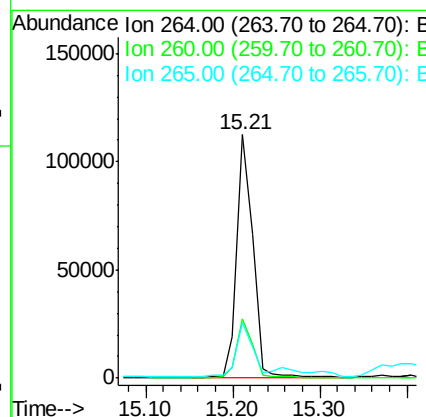
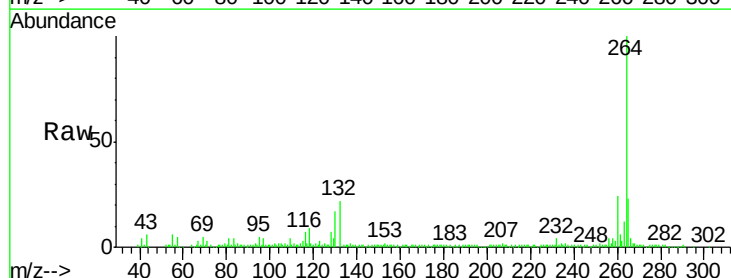
Manual Integrations

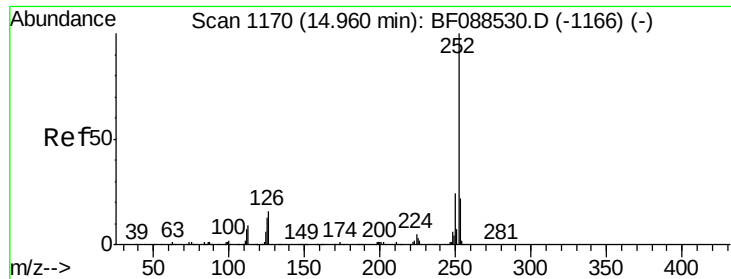
SOHIL
7/13/2016 9:25:33 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.21 min Scan# 1192
Delta R.T. -0.00 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	22.8	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 22.24 ng m

RT: 14.83 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Instrument :

BNA_F

ClientSampleId :

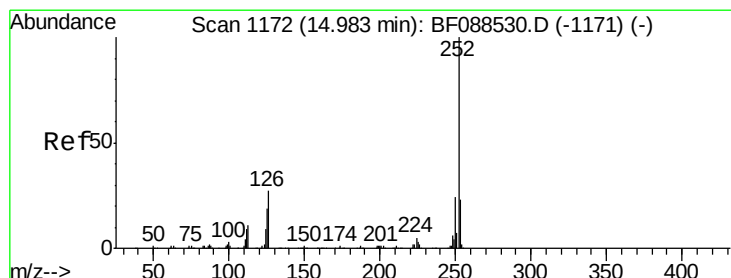
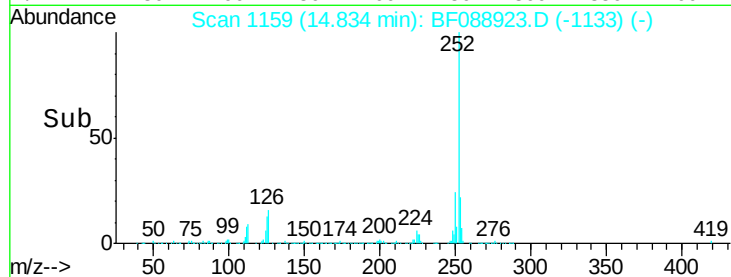
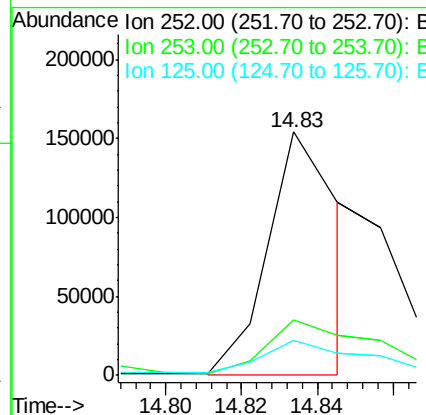
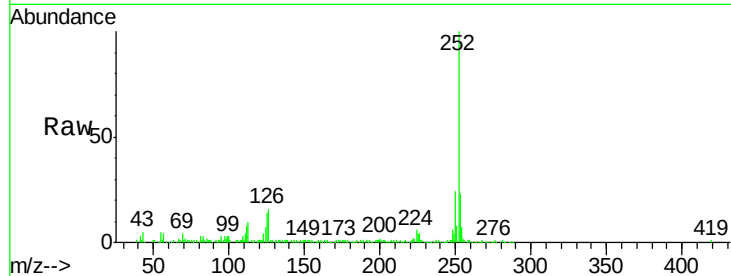
NC-04DL

Tot Ion:	252	Resp:	203243
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.4	26.2
125	14.3	7.1	10.7

Manual Integrations

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7/13/2016 9:25:33 AM



#88

Benzo(k)fluoranthene

Concen: 10.48 ng m

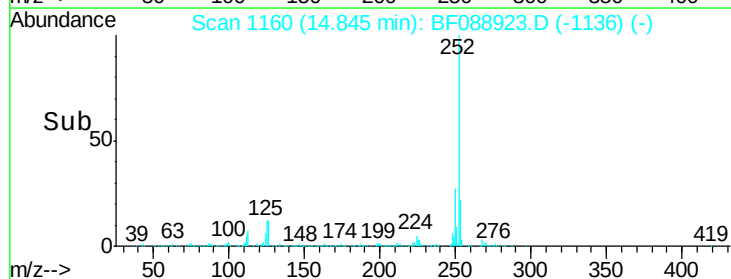
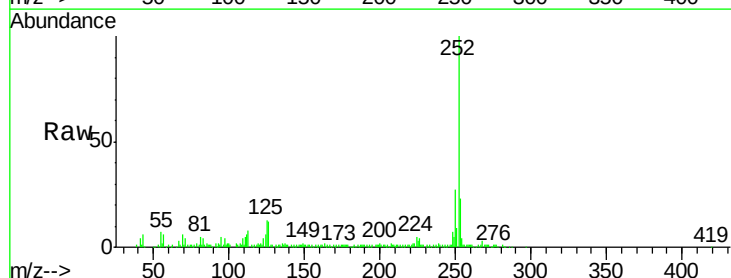
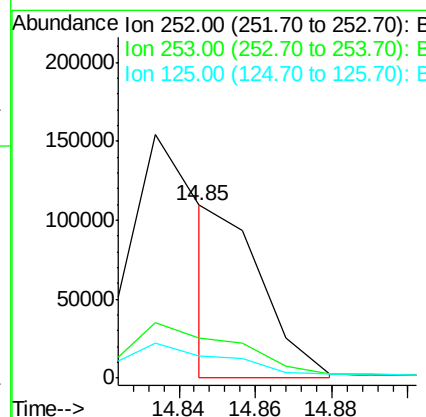
RT: 14.85 min Scan# 1160

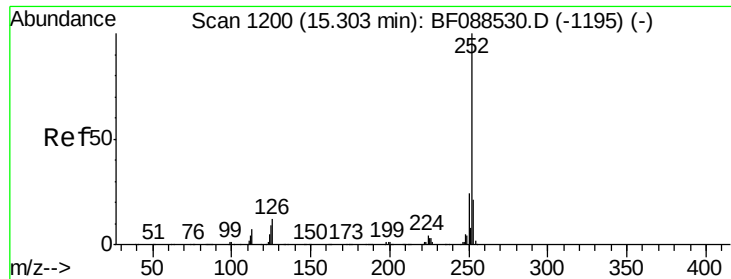
Delta R.T. -0.02 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Tgt Ion:	252	Resp:	83413
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.0	27.0
125	13.1	11.2	16.8





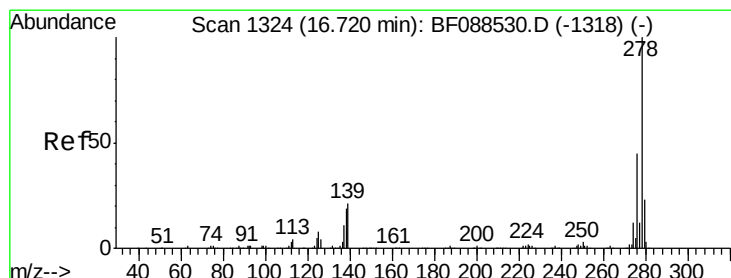
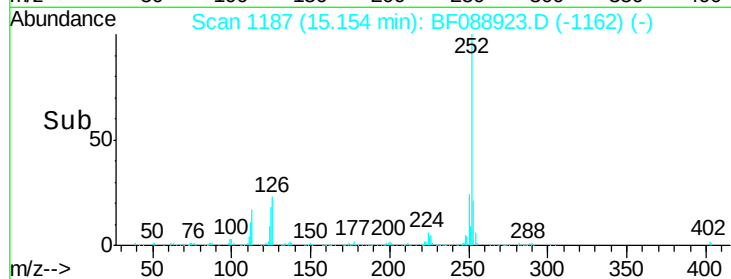
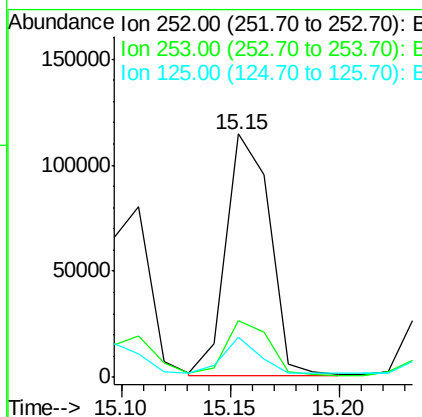
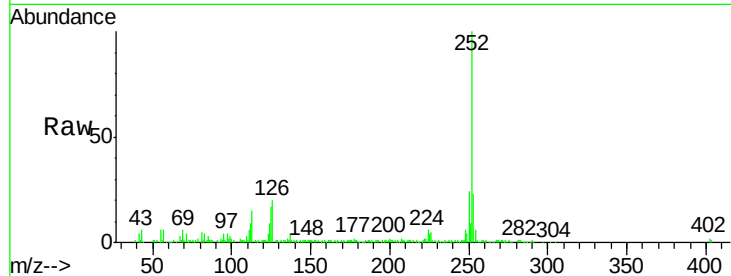
#89
Benzo(a)pyrene
Concen: 20.56 ng
RT: 15.15 min Scan# 1187
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Instrument :
BNA_F
ClientSampled :
NC-04DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	16.7	12.5	18.7

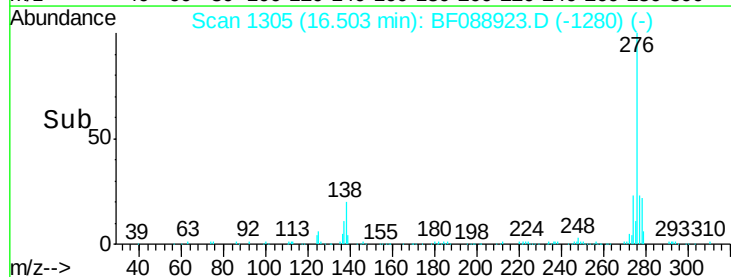
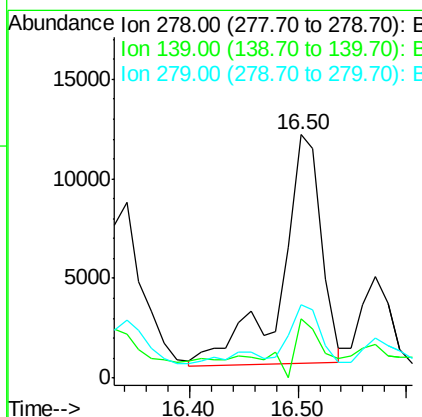
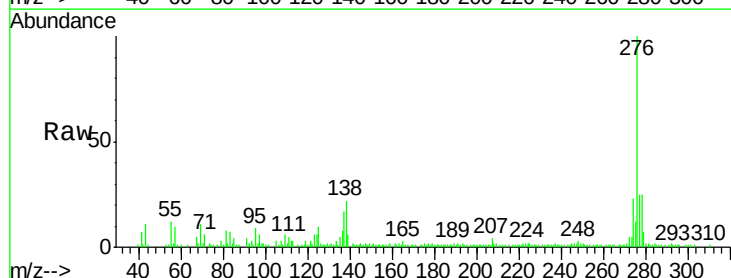
Manual Integrations

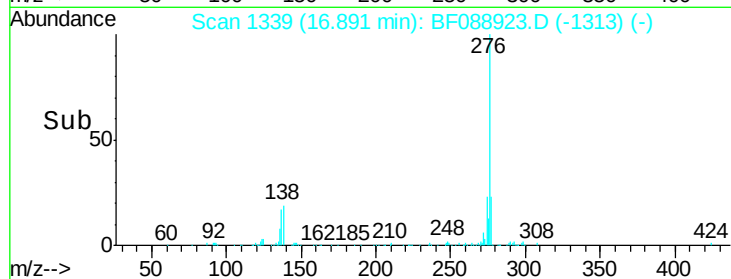
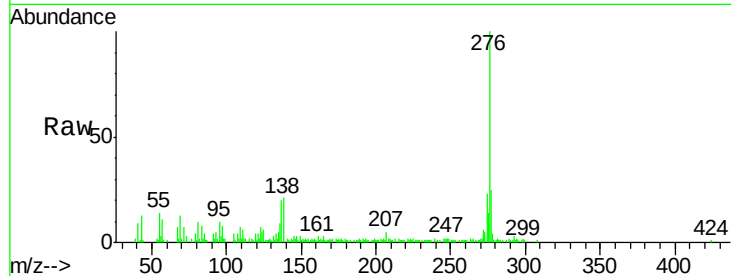
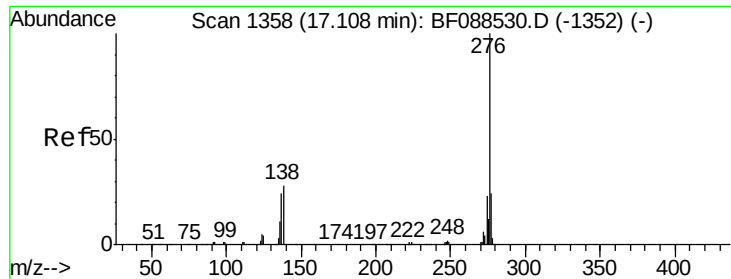
APPROVED
SOHIL
7/13/2016 9:25:33 AM



#90
Dibenzo(a,h)anthracene
Concen: 4.57 ng
RT: 16.50 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF088923.D
Acq: 12 Jul 2016 14:56

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.2	15.7	23.5#
279	30.3	19.4	29.2#





#91

Benzo(a,h,i)perylene

Concen: 11.76 ng

RT: 16.89 min Scan# 1339

Delta R.T. -0.00 min

Lab File: BF088923.D

Acq: 12 Jul 2016 14:56

Instrument :

BNA_F

ClientSampleId :

NC-04DL

Tot Ion: 276 Resp: 78614

Ion Ratio Lower Upper

276 100

277 24.6 18.9 28.3

138 20.9 21.4 32.2#

Manual Integrations

SOHIL

7/13/2016 9:25:33 AM

