

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089062.D
 Acq On : 16 Jul 2016 18:43
 Operator : UM/SJ
 Sample : H3989-15
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 U2-B3(0-11)C

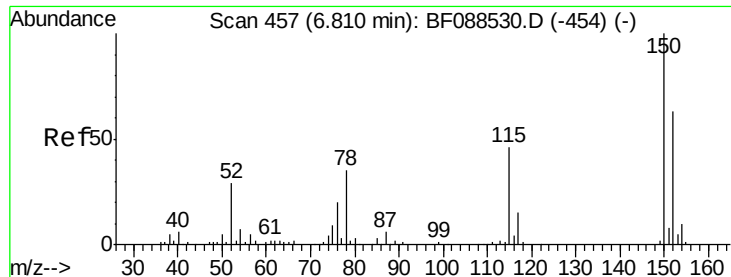
Manual Integrations

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Quant Time: Jul 18 02:11:50 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	6.66	152	51798	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	214728	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	82445	20.00	ng	-0.05
63) Phenanthrene-d10	11.19	188	133777	20.00	ng	-0.03
75) Chrysene-d12	13.82	240	104959	20.00	ng	-0.03
86) Perylene-d12	15.19	264	77022	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	335510	97.08	ng	-0.03
7) Phenol-d6	6.32	99	395861	88.64	ng	-0.03
23) Nitrobenzene-d5	7.23	82	263722	64.36	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	54595	71.31	ng	-0.05
44) 2-Fluorobiphenyl	9.03	172	398232	76.30	ng	-0.05
78) Terphenyl-d14	12.77	244	275843	58.54	ng	-0.03
Target Compounds						Qvalue
49) Dimethylphthalate	9.43	163	70829	12.06	ng	99
70) Phenanthrene	11.21	178	113318	15.50	ng	98
71) Anthracene	11.26	178	33981	4.67	ng	99
74) Fluoranthene	12.39	202	173700	23.43	ng	99
77) Pyrene	12.62	202	188504	21.18	ng	99
80) Benzo(a)anthracene	13.81	228	81388	12.04	ng	98
82) Chrysene	13.84	228	74584m	11.15	ng	
83) Bis(2-ethylhexyl)phthalate	13.82	149	11123	2.45	ng	# 90
85) Indeno(1,2,3-cd)pyrene	16.47	276	30273	5.88	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	80245m	16.61	ng	
88) Benzo(k)fluoranthene	14.83	252	24941m	5.93	ng	
89) Benzo(a)pyrene	15.13	252	55337	13.53	ng	98
90) Dibenzo(a,h)anthracene	16.48	278	7895m	2.31	ng	
91) Benzo(a,h,i)perylene	16.86	276	31507	8.91	ng	99

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



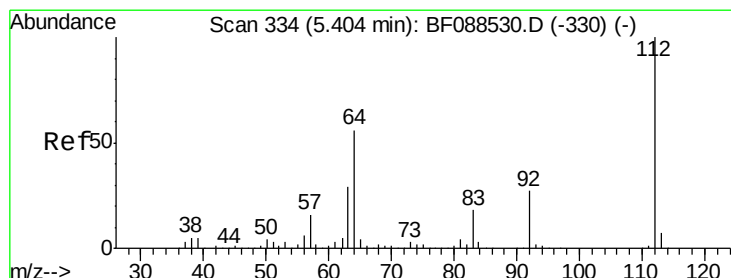
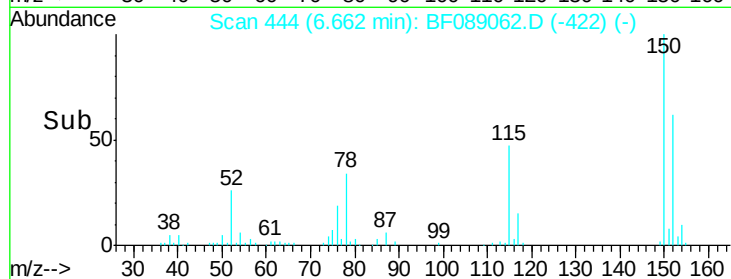
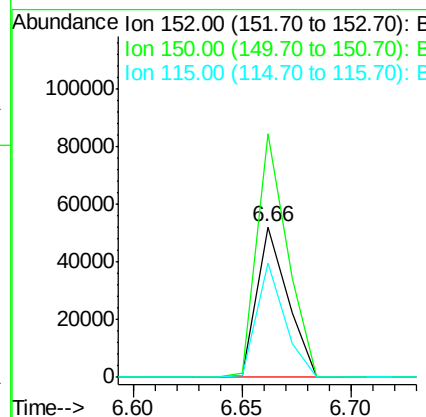
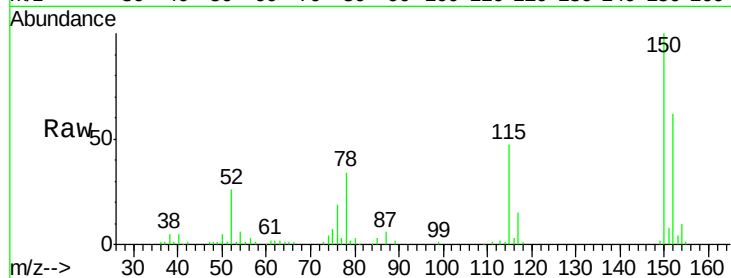
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.66 min Scan# 444
 Delta R.T. -0.05 min
 Lab File: BF089062.D
 Acq: 16 Jul 2016 18:43

Instrument :
 BNA_F
 ClientSampled :
 U2-B3(0-11)C

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.6	123.8	185.6
115	75.9	39.6	59.4

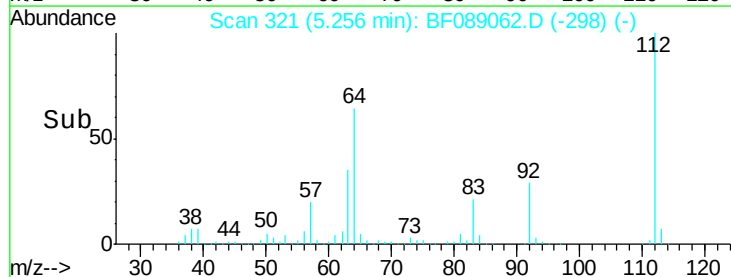
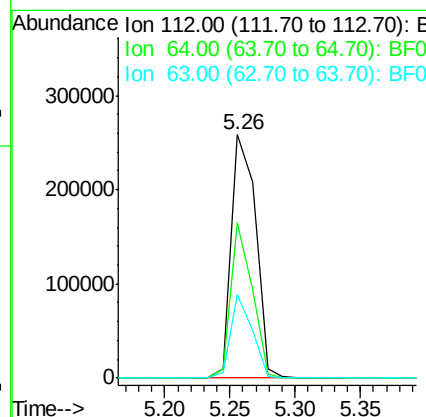
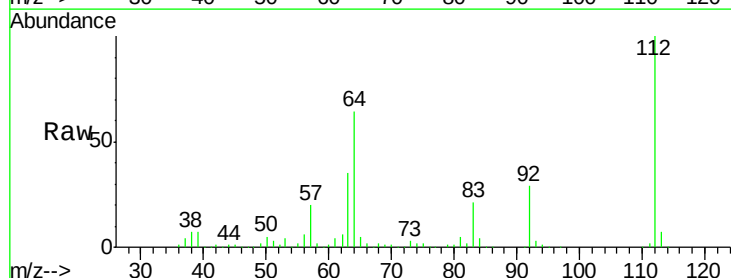
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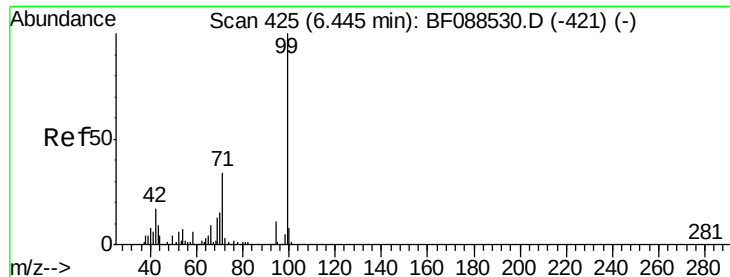
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#5
 2-Fluorophenol
 Concen: 97.08 ng
 RT: 5.26 min Scan# 321
 Delta R.T. -0.03 min
 Lab File: BF089062.D
 Acq: 16 Jul 2016 18:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.6	42.2	63.2
63	34.5	21.8	32.8





#7

Phenol-d6

Concen: 88.64 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089062.D

Acq: 16 Jul 2016 18:43

Instrument :

BNA_F

ClientSampleId :

U2-B3(0-11)C

Tot Ion: 99 Resp: 395861

Ion Ratio Lower Upper

99 100

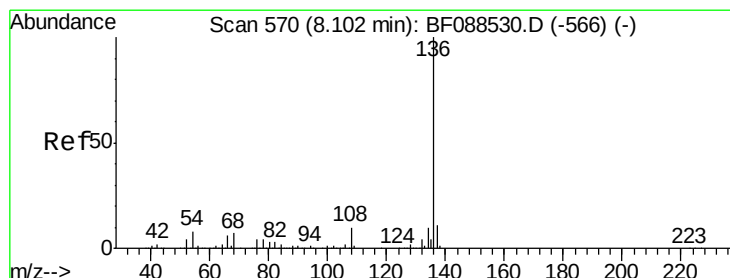
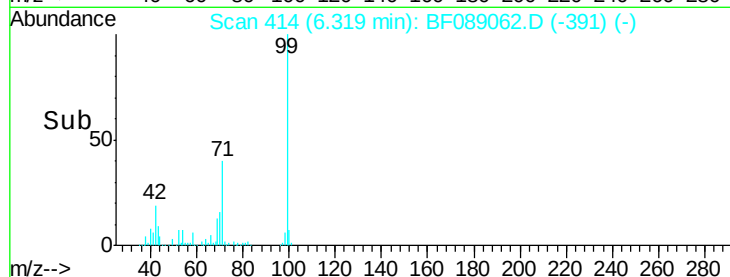
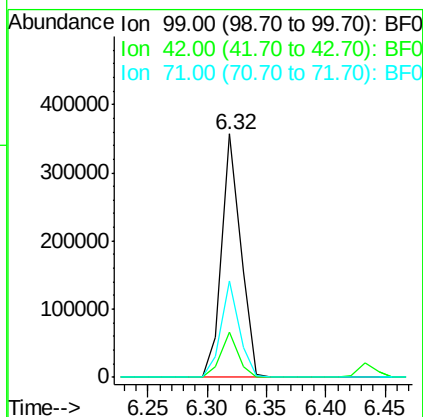
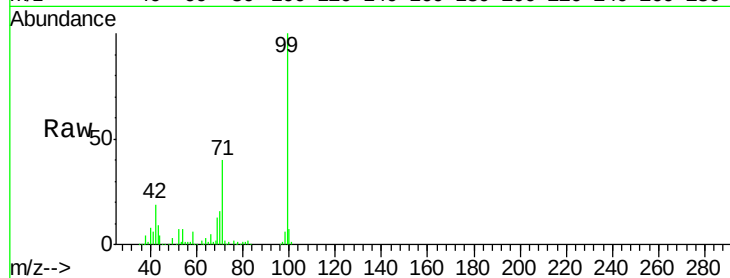
42 18.8 12.2 18.2#

71 39.5 23.4 35.0#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 557

Delta R.T. -0.05 min

Lab File: BF089062.D

Acq: 16 Jul 2016 18:43

Tgt Ion: 136 Resp: 214728

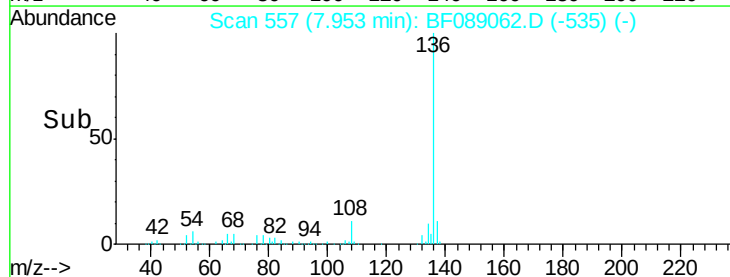
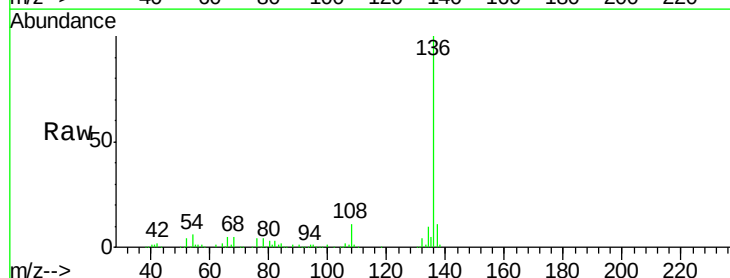
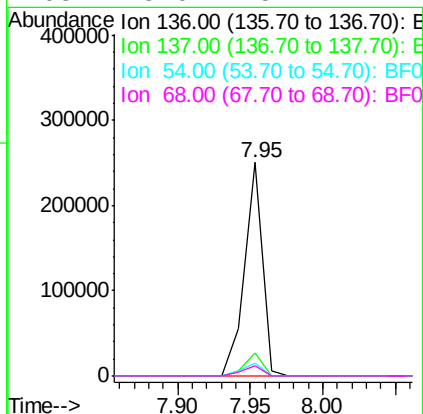
Ion Ratio Lower Upper

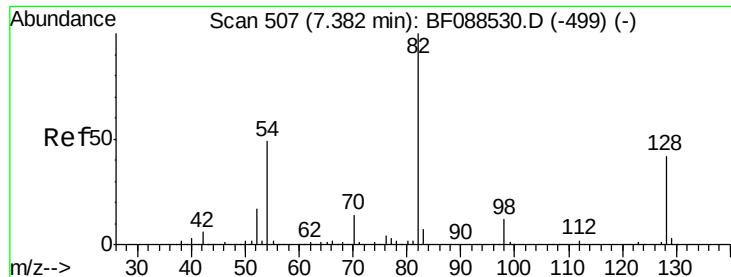
136 100

137 11.0 9.1 13.7

54 6.2 6.6 10.0#

68 5.0 5.1 7.7#





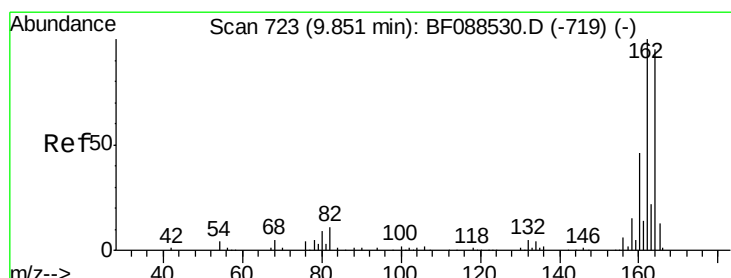
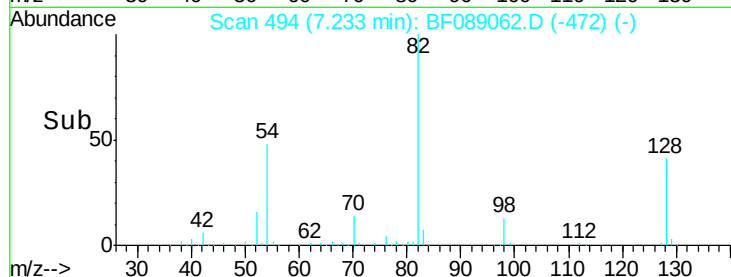
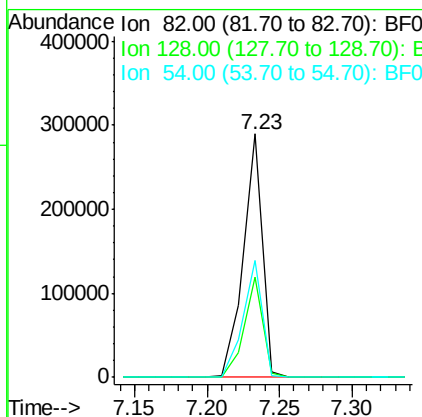
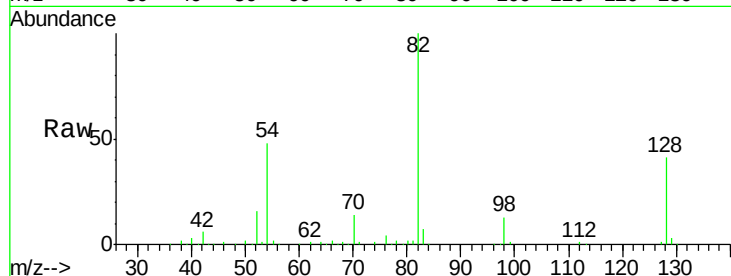
#23
 Nitrobenzene-d5
 Concen: 64.36 ng
 RT: 7.23 min Scan# 494
 Delta R.T. -0.05 min
 Lab File: BF089062.D
 Acq: 16 Jul 2016 18:43

Instrument :
 BNA_F
 ClientSampleId :
 U2-B3(0-11)C

Tot Ion:	82	Resp:	263722
Ion Ratio	Lower	Upper	
82	100		
128	41.4	35.9	53.9
54	47.8	40.9	61.3

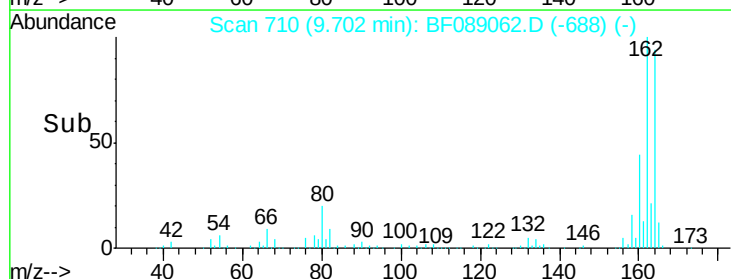
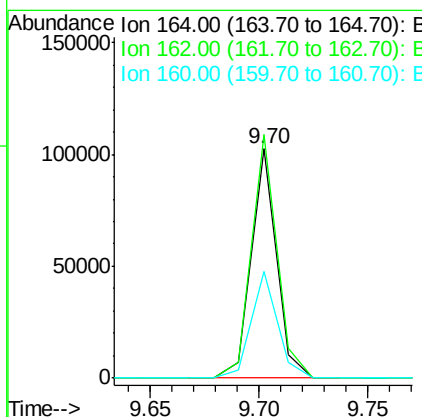
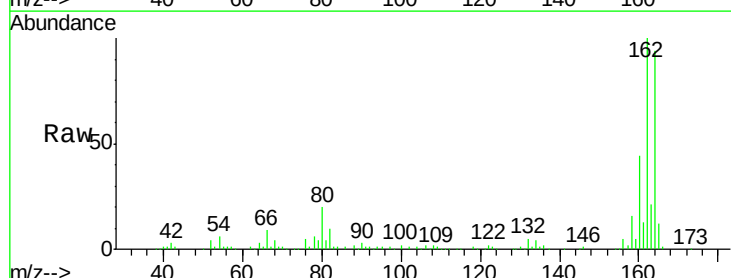
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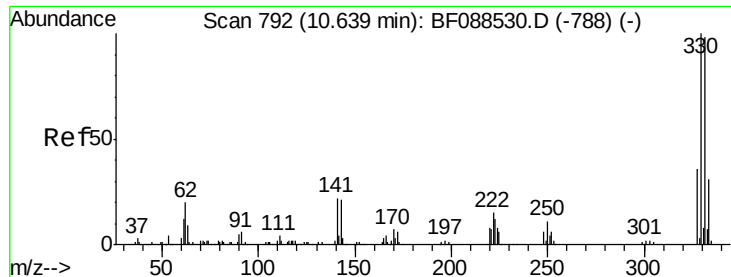
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.05 min
 Lab File: BF089062.D
 Acq: 16 Jul 2016 18:43

Tgt Ion:	164	Resp:	82445
Ion Ratio	Lower	Upper	
164	100		
162	106.1	85.4	128.2
160	46.4	39.5	59.3





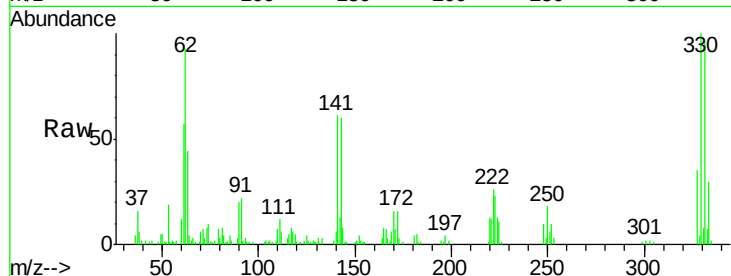
#41
 2,4,6-Tribromophenol
 Concen: 71.31 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.05 min
 Lab File: BF089062.D
 Acq: 16 Jul 2016 18:43

Instrument :
 BNA_F
 ClientSampleId :
 U2-B3(0-11)C

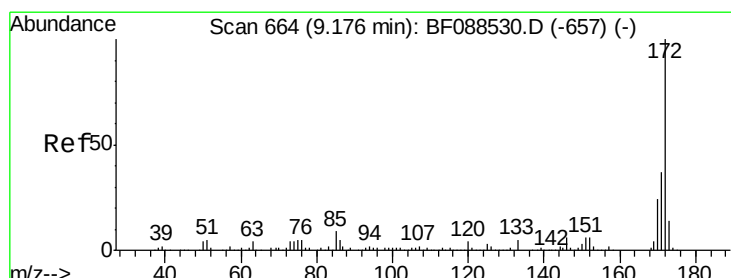
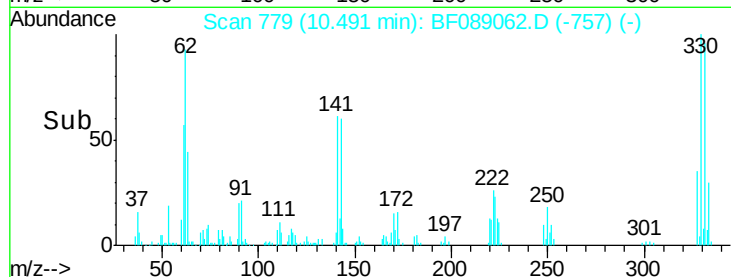
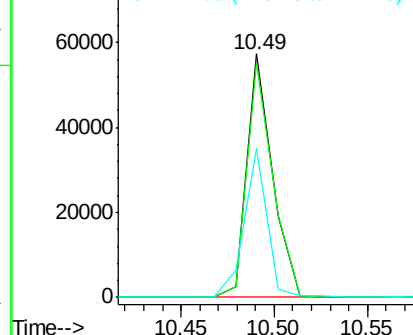
Tot Ion	Ratio	Resp	Lower	Upper
330	100	54595		
332	97.4	0.0	0.0	0.0
141	55.4	0.0	0.0	0.0

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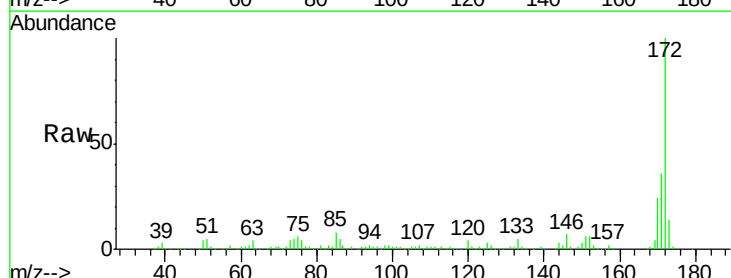


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

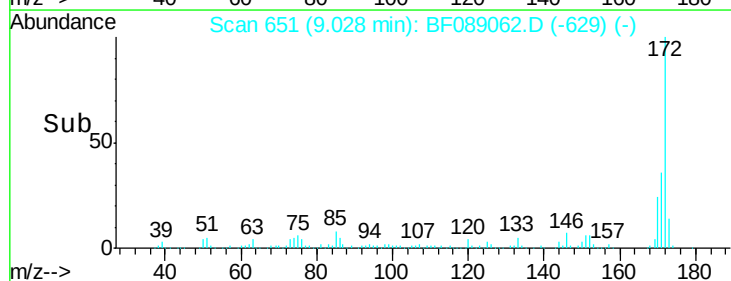
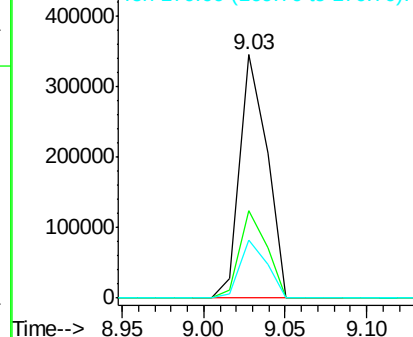


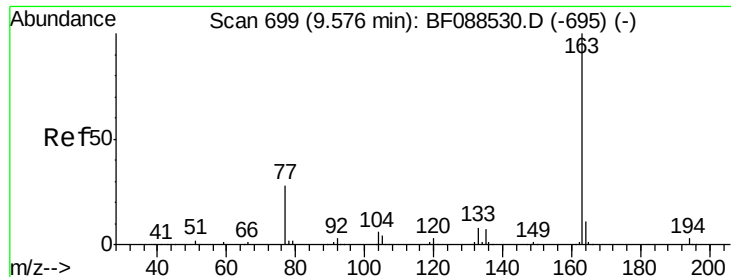
#44
 2-Fluorobiphenyl
 Concen: 76.30 ng
 RT: 9.03 min Scan# 651
 Delta R.T. -0.05 min
 Lab File: BF089062.D
 Acq: 16 Jul 2016 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	398232		
171	35.8	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





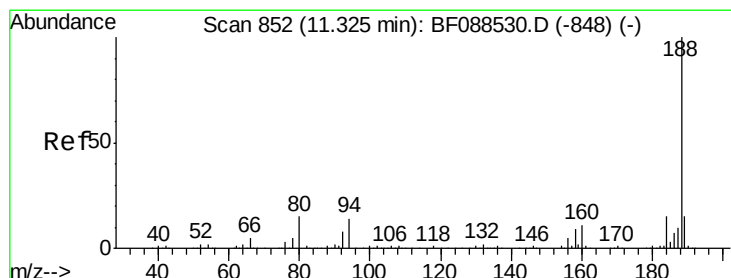
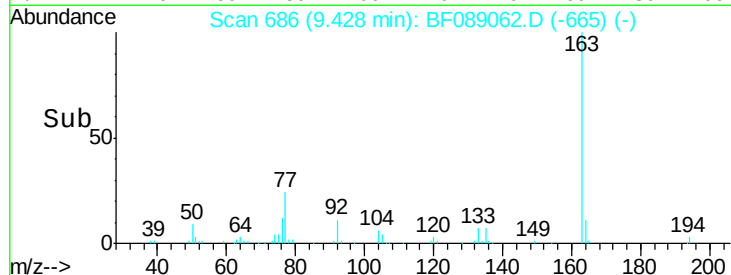
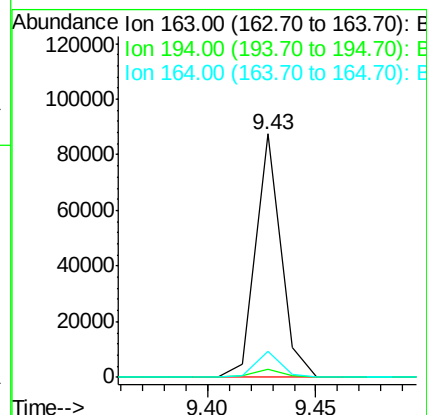
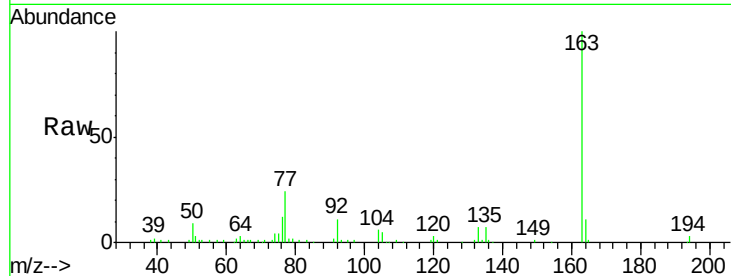
#49
Dimethylphthalate
Concen: 12.06 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.06 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Instrument :
BNA_F
ClientSampleId :
U2-B3(0-11)C

Tot Ion:163 Resp: 70829
Ion Ratio Lower Upper
163 100
194 3.2 2.8 4.2
164 10.6 8.3 12.5

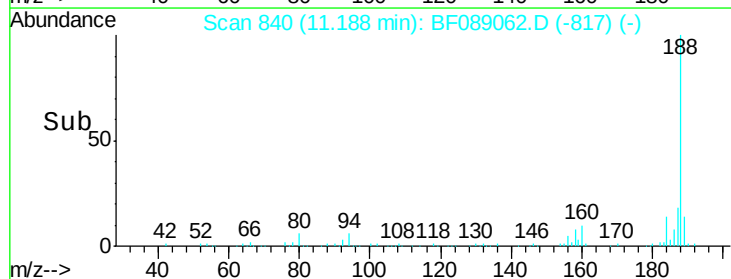
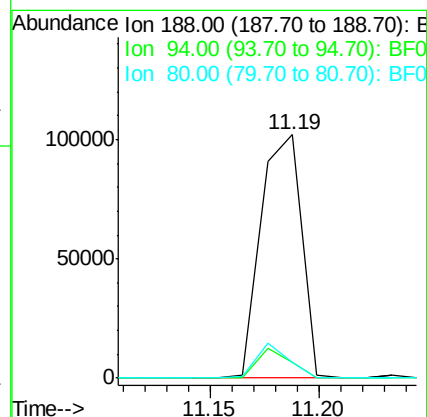
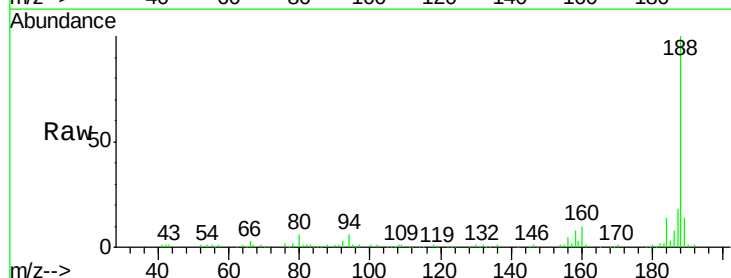
Manual Integrations

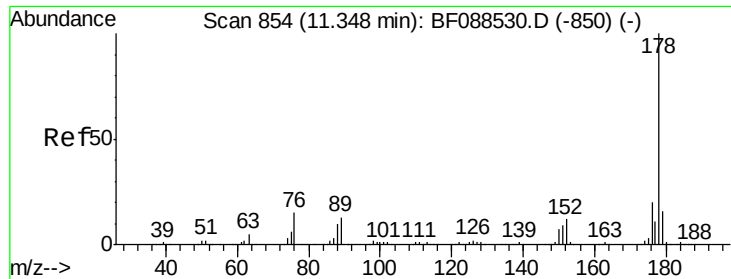
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.03 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Tgt Ion:188 Resp: 133777
Ion Ratio Lower Upper
188 100
94 6.4 9.0 13.6#
80 6.3 10.0 15.0#





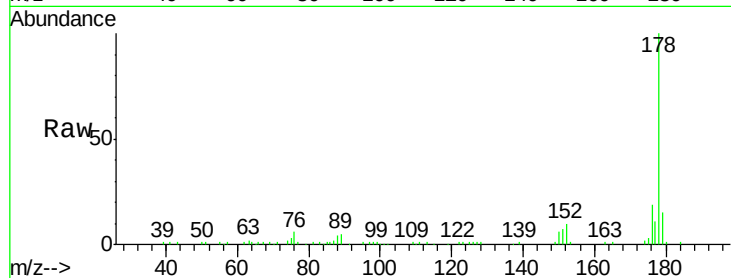
#70
Phenanthrene
Concen: 15.50 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Instrument :
BNA_F
ClientSampled :
U2-B3(0-11)C

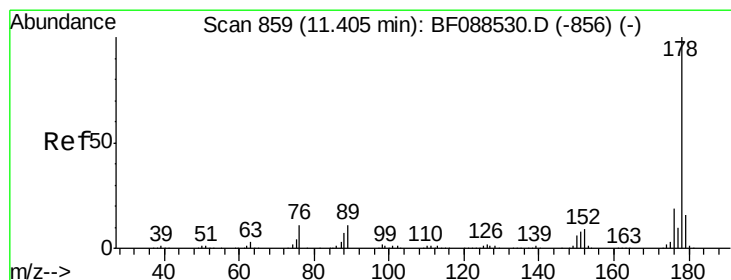
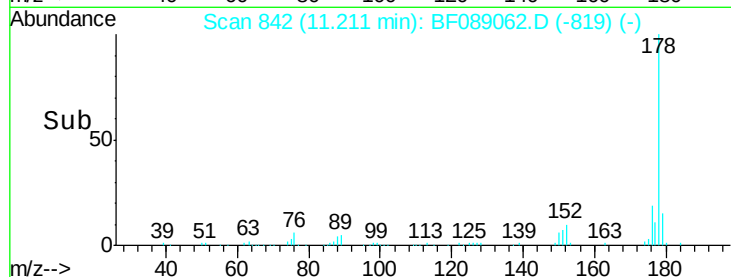
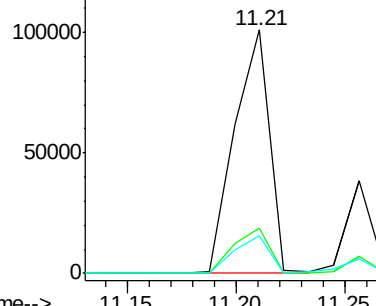
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.6
179	15.2	13.0	19.4

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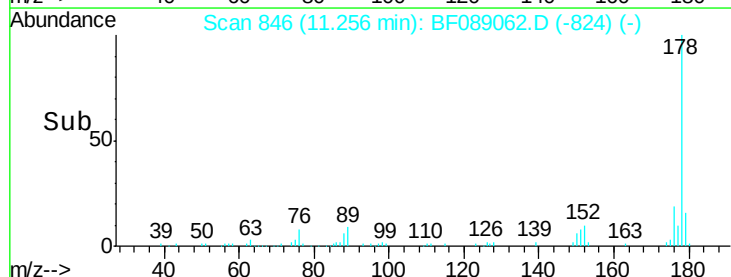
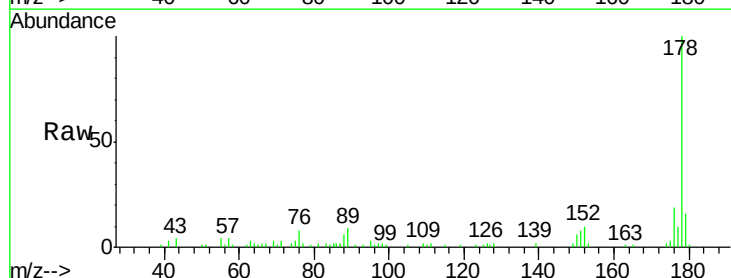
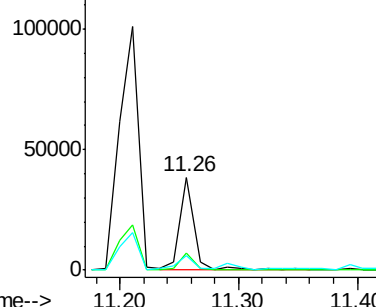
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

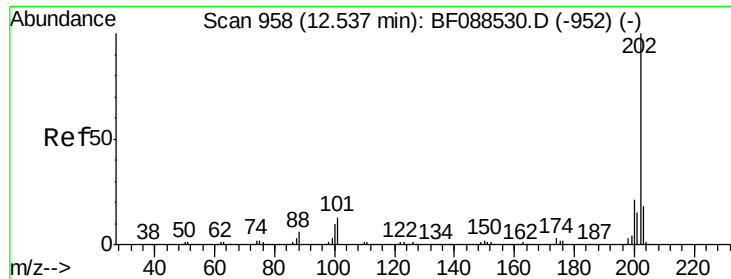


#71
Anthracene
Concen: 4.67 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.05 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.6	23.4
179	15.7	12.8	19.2

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 23.43 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089062.D

Acq: 16 Jul 2016 18:43

Instrument :

BNA_F

ClientSampleId :

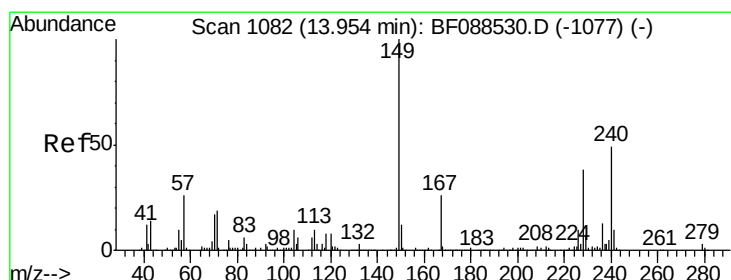
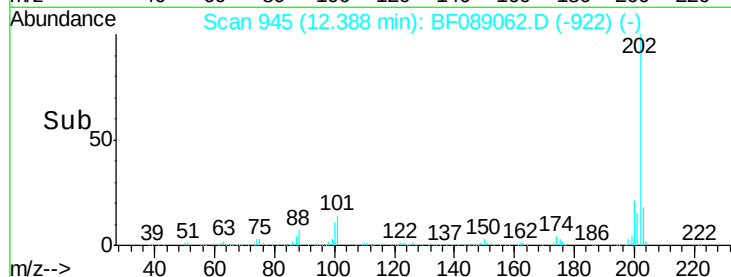
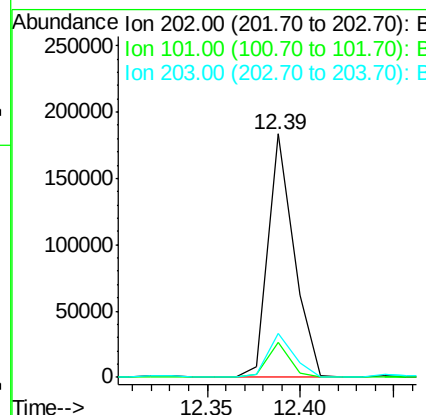
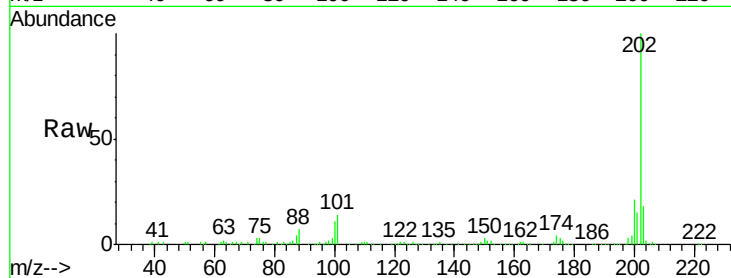
U2-B3(0-11)C

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		173700		
101	14.3	0.0	33.1		
203	18.1	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.00 ng

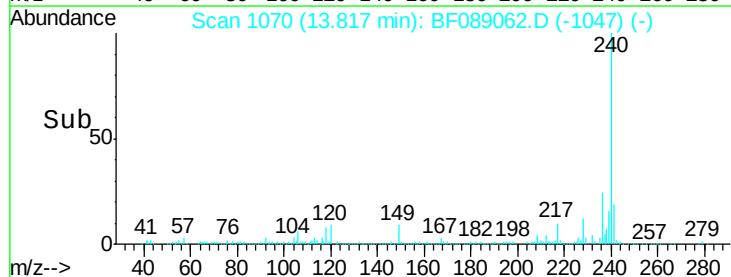
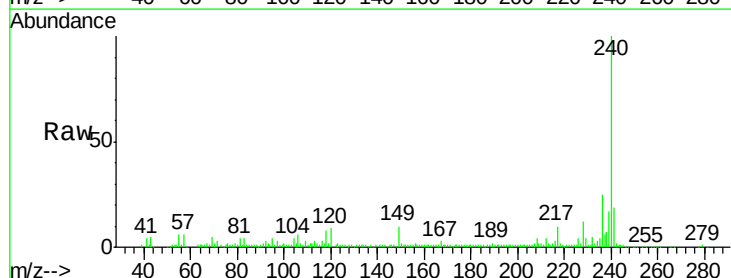
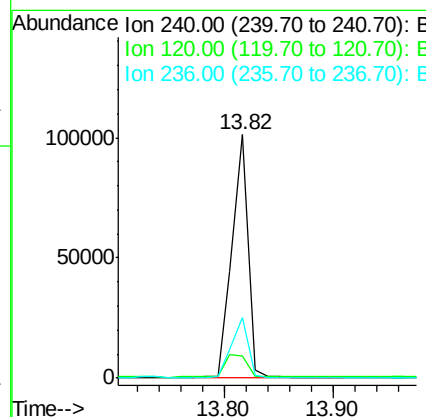
RT: 13.82 min Scan# 1070

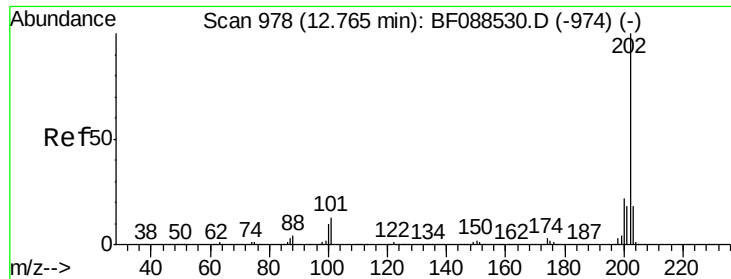
Delta R.T. -0.03 min

Lab File: BF089062.D

Acq: 16 Jul 2016 18:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		104959		
120	9.0	6.8	10.2		
236	24.7	20.2	30.2		





#77

Pvrene

Concen: 21.18 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089062.D

Acq: 16 Jul 2016 18:43

Instrument :

BNA_F

ClientSampleId :

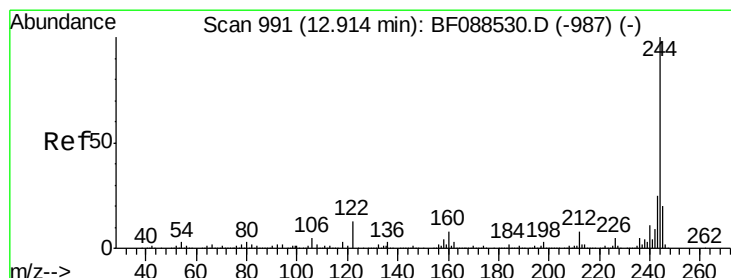
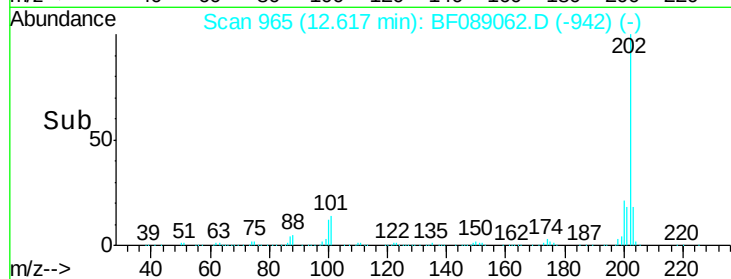
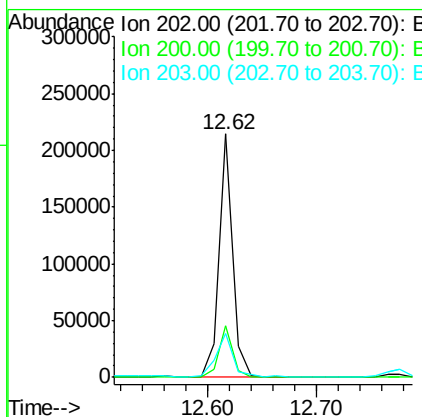
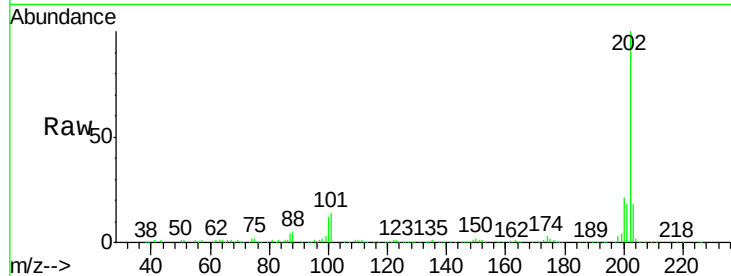
U2-B3(0-11)C

Tot Ion:	202	Resp:	188504
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.4	26.2
203	18.3	14.5	21.7

Manual Integrations

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#78

Terphenyl-d14

Concen: 58.54 ng

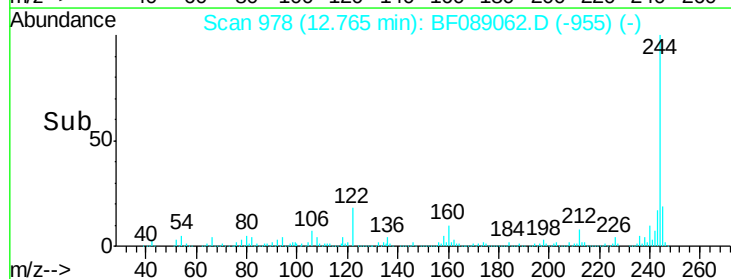
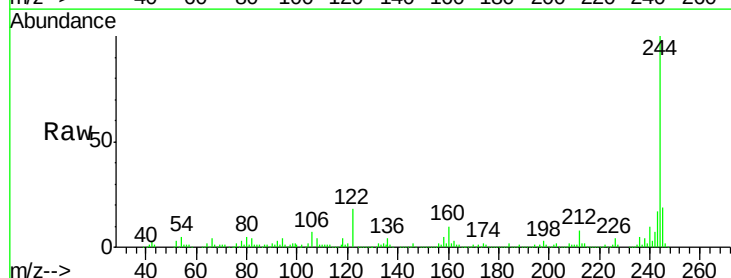
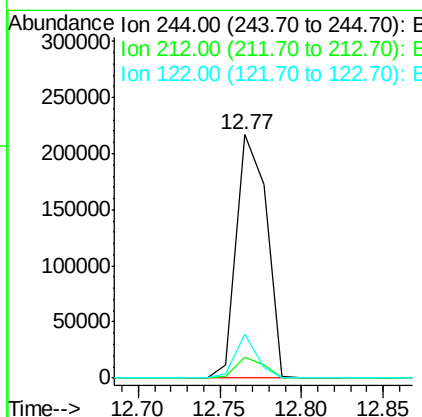
RT: 12.77 min Scan# 978

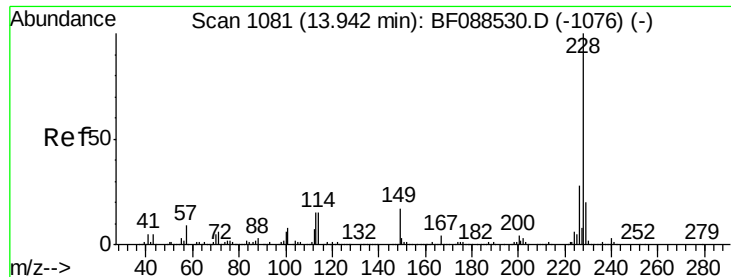
Delta R.T. -0.03 min

Lab File: BF089062.D

Acq: 16 Jul 2016 18:43

Tgt Ion:	244	Resp:	275843
Ion Ratio	Lower	Upper	
244	100		
212	8.5	6.0	9.0
122	18.0	11.2	16.8#





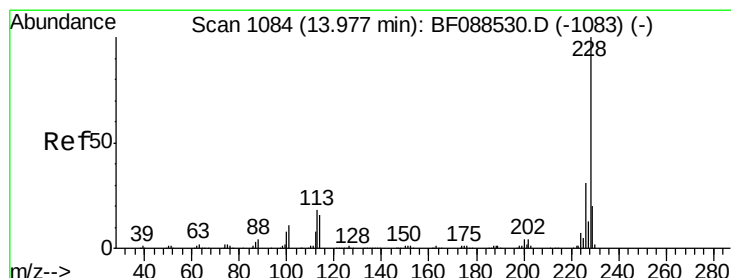
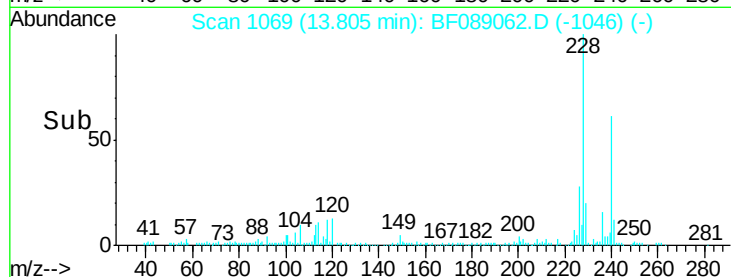
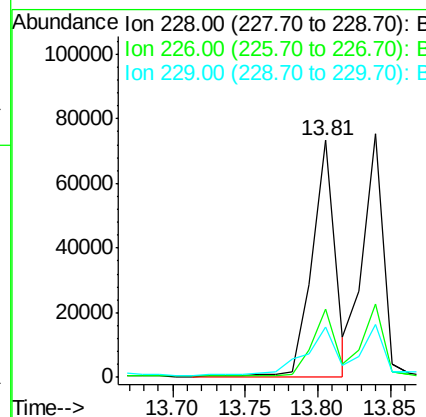
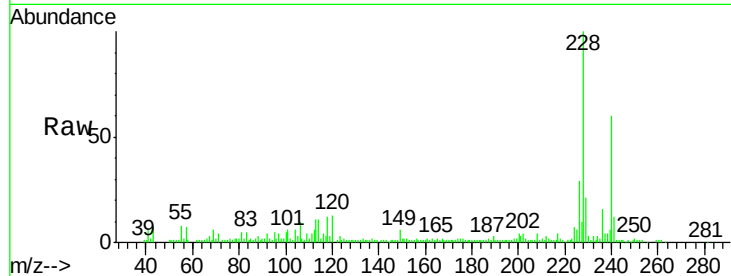
#80
Benzo(a)anthracene
Concen: 12.04 ng
RT: 13.81 min Scan# 1069
Delta R.T. -0.03 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Instrument :
BNA_F
ClientSampleId :
U2-B3(0-11)C

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.3	33.5
229	21.0	16.0	24.0

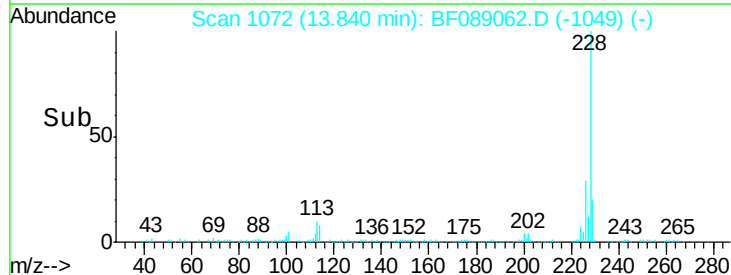
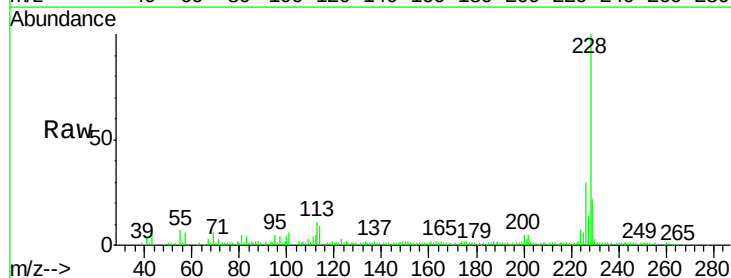
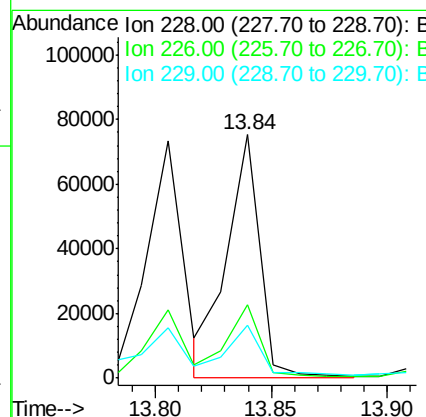
Manual Integrations

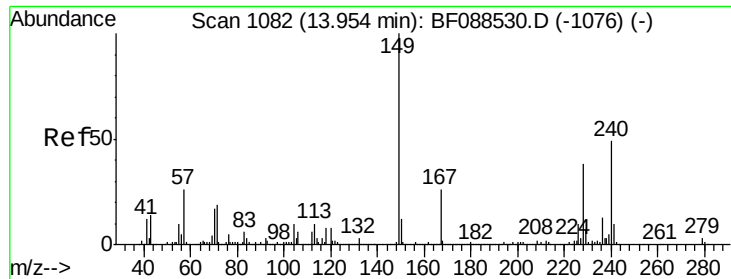
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#82
Chrysene
Concen: 11.15 ng m
RT: 13.84 min Scan# 1072
Delta R.T. -0.03 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.4	38.2
229	21.9	16.3	24.5





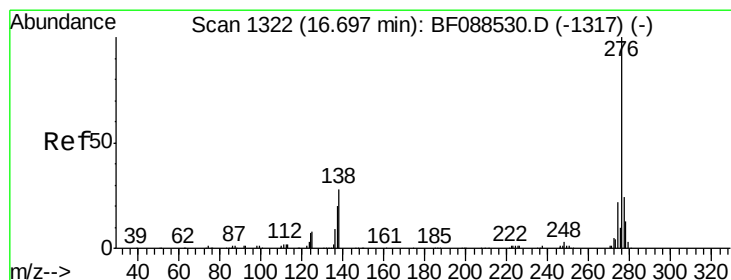
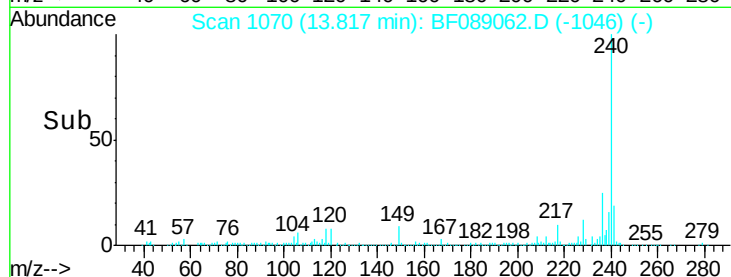
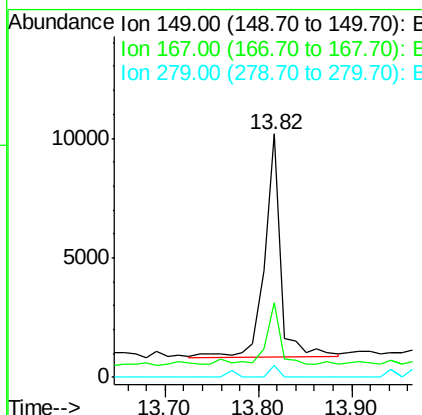
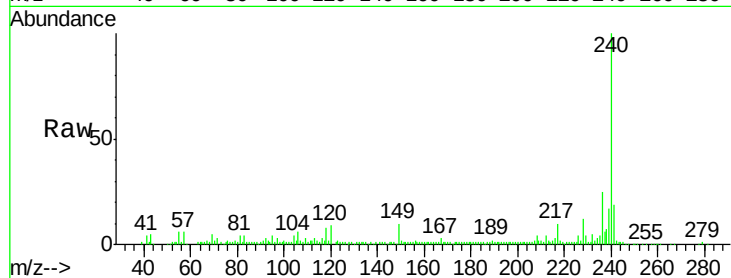
#83
Bis(2-ethylhexyl)phthalate
Concen: 2.45 ng
RT: 13.82 min Scan# 1070
Delta R.T. -0.02 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Instrument :
BNA_F
ClientSampled :
U2-B3(0-11)C

Tot Ion	Ratio	Lower	Upper
149	100		
167	30.7	20.5	30.7
279	5.1	2.0	3.0#

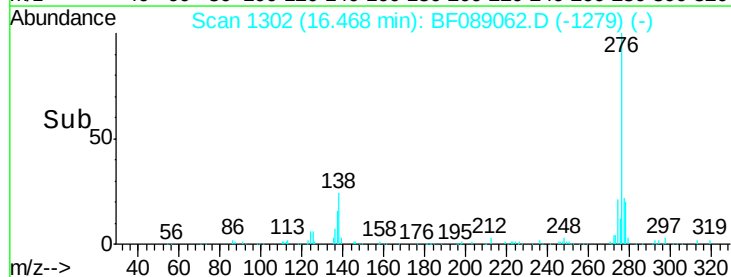
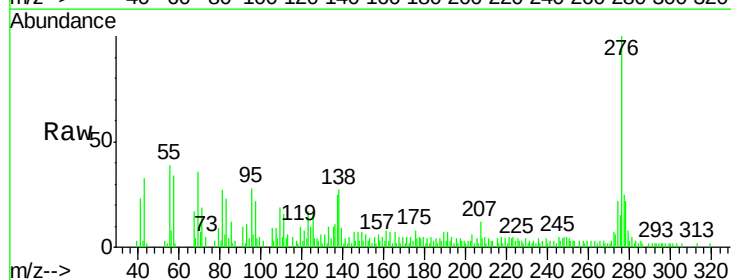
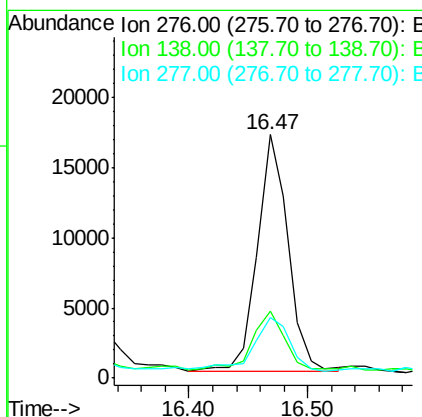
Manual Integrations

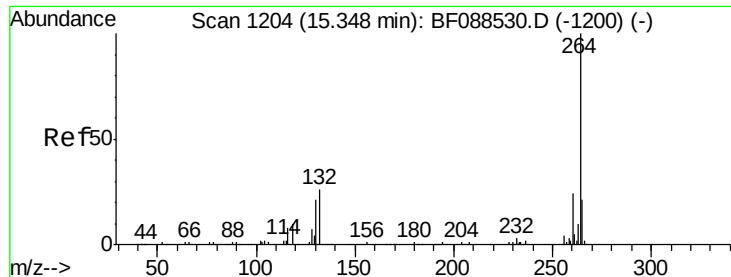
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#85
Indeno(1,2,3-cd)pyrene
Concen: 5.88 ng
RT: 16.47 min Scan# 1302
Delta R.T. -0.03 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.5	0.0	0.0#
277	26.9	0.0	0.0#





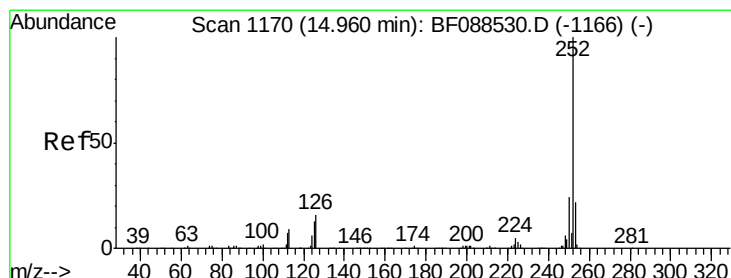
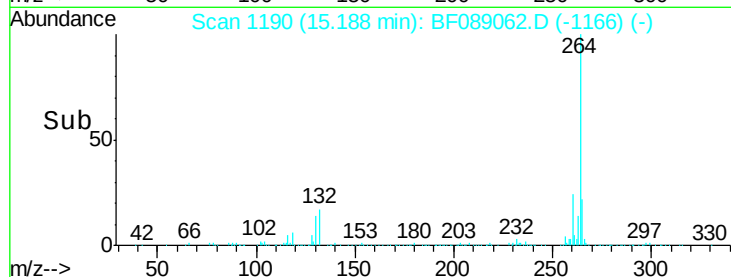
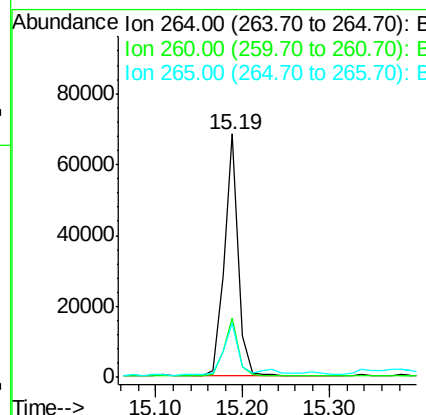
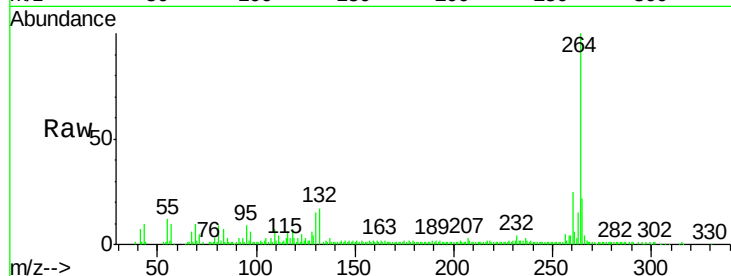
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.19 min Scan# 1190
Delta R.T. -0.02 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Instrument :
BNA_F
ClientSampleId :
U2-B3(0-11)C

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	22.3	16.9	25.3

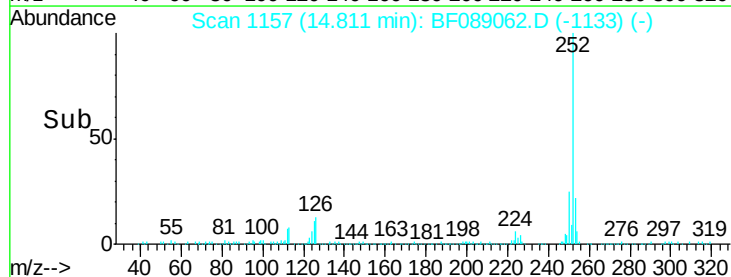
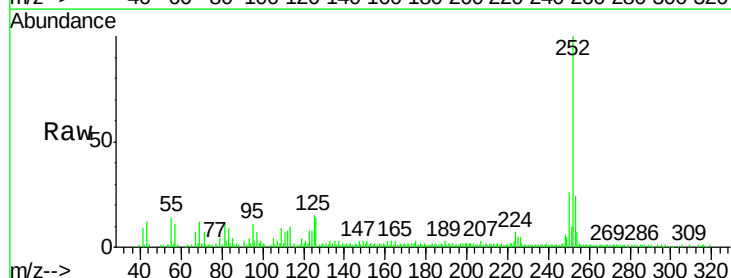
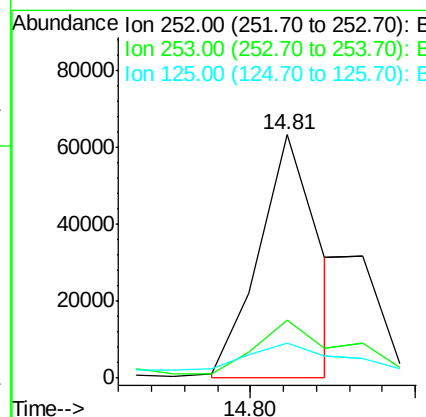
Manual Integrations

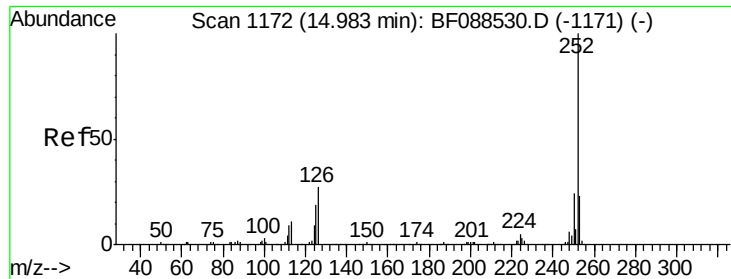
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#87
Benzo(b)fluoranthene
Concen: 16.61 ng m
RT: 14.81 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.4	26.2
125	14.6	7.1	10.7





#88

Benzo(k)fluoranthene

Concen: 5.93 ng m

RT: 14.83 min Scan# 1159

Delta R.T. -0.03 min

Lab File: BF089062.D

Acq: 16 Jul 2016 18:43

Instrument :

BNA_F

ClientSampleId :

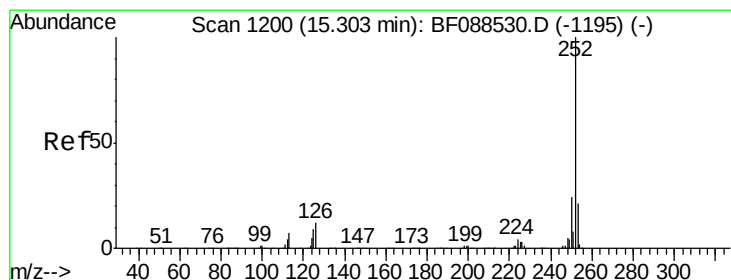
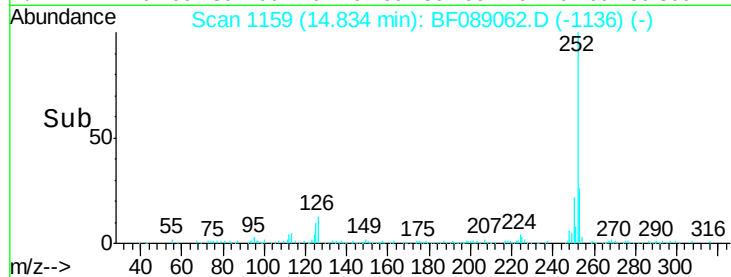
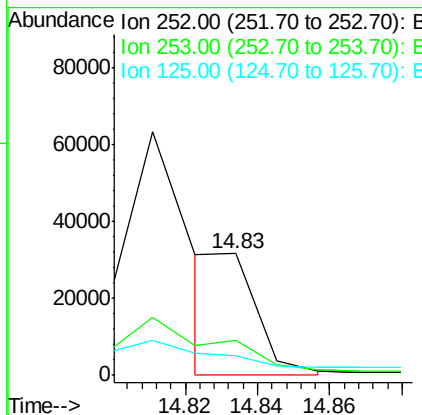
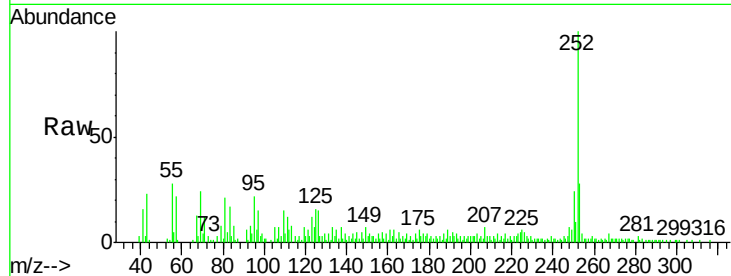
U2-B3(0-11)C

Tot Ion:	252	Resp:	24941
Ion Ratio	Lower	Upper	
252	100		
253	28.3	18.0	27.0#
125	15.6	11.2	16.8

Manual Integrations

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#89

Benzo(a)pyrene

Concen: 13.53 ng

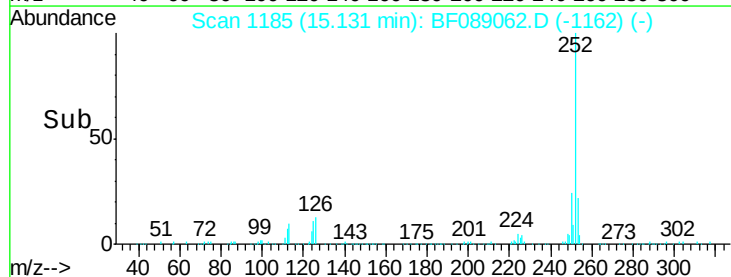
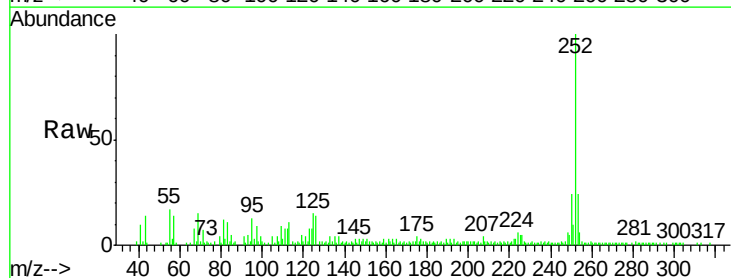
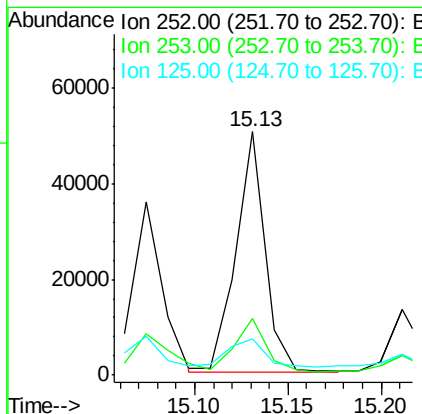
RT: 15.13 min Scan# 1185

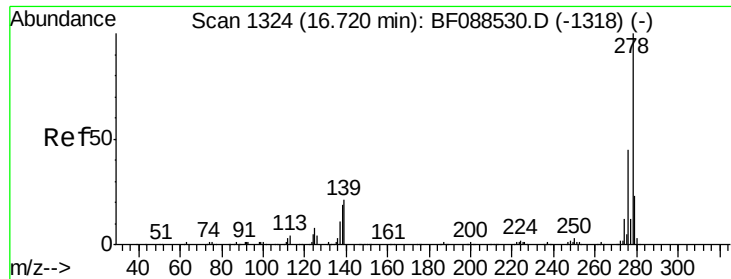
Delta R.T. -0.03 min

Lab File: BF089062.D

Acq: 16 Jul 2016 18:43

Tgt Ion:	252	Resp:	55337
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.9	26.9
125	14.9	12.5	18.7





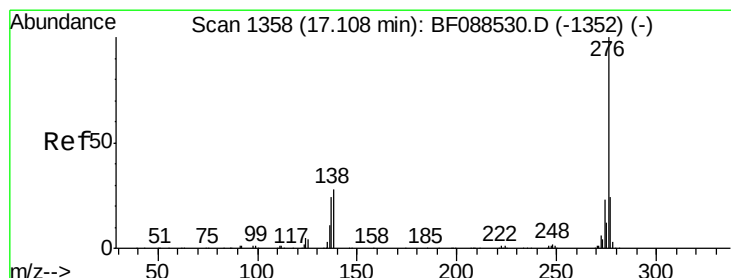
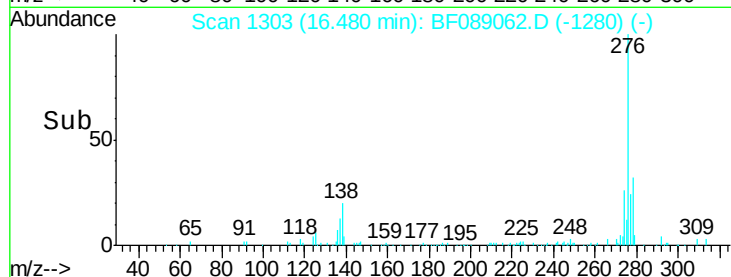
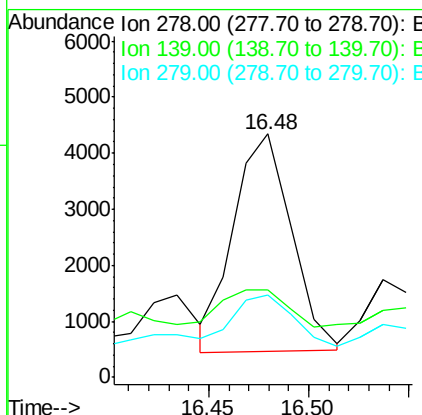
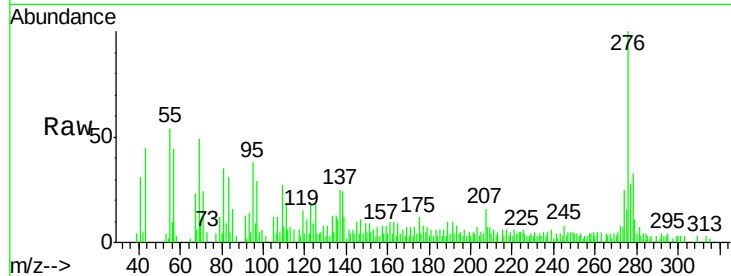
#90
Dibenzo(a,h)anthracene
Concen: 2.31 ng m
RT: 16.48 min Scan# 1303
Delta R.T. -0.03 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Instrument :
BNA_F
ClientSampleId :
U2-B3(0-11)C

Tot Ion	Ratio	Lower	Upper
278	100		
139	36.1	15.7	23.5#
279	34.0	19.4	29.2#

Manual Integrations

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#91
Benzo(g,h,i)perylene
Concen: 8.91 ng
RT: 16.86 min Scan# 1336
Delta R.T. -0.03 min
Lab File: BF089062.D
Acq: 16 Jul 2016 18:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.9	28.3
138	26.2	21.4	32.2

