

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089066.D
 Acq On : 16 Jul 2016 20:43
 Operator : UM/SJ
 Sample : H4017-09
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C5-11

Manual Integrations

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Quant Time: Jul 18 15:45:30 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	50990	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	214335	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	77751	20.00	ng	-0.05
63) Phenanthrene-d10	11.19	188	119611	20.00	ng	-0.03
75) Chrysene-d12	13.83	240	96490	20.00	ng	-0.02
86) Perylene-d12	15.22	264	68823	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	314182	92.34	ng	-0.03
7) Phenol-d6	6.32	99	381269	86.73	ng	-0.03
23) Nitrobenzene-d5	7.23	82	240791	58.87	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	48186	66.74	ng	-0.05
44) 2-Fluorobiphenyl	9.03	172	392019	79.64	ng	-0.05
78) Terphenyl-d14	12.78	244	267492	61.75	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.98	128	41509	3.93	ng	98
37) 2-Methylnaphthalene	8.66	142	24048	3.53	ng	# 93
48) Acenaphthylene	9.56	152	36001	4.48	ng	97
49) Dimethylphthalate	9.43	163	185149	33.43	ng	99
54) Dibenzofuran	9.91	168	14223	2.20	ng	# 88
70) Phenanthrene	11.21	178	44004	6.73	ng	99
71) Anthracene	11.26	178	45521	7.00	ng	99
72) Carbazole	11.42	167	16448	2.69	ng	97
74) Fluoranthene	12.40	202	121239	18.29	ng	94
77) Pyrene	12.63	202	117135	14.32	ng	97
80) Benzo(a)anthracene	13.82	228	58177	9.36	ng	# 83
82) Chrysene	13.85	228	78434	12.76	ng	# 94
85) Indeno(1,2,3-cd)pyrene	16.54	276	34692	7.34	ng	# 100
87) Benzo(b)fluoranthene	14.85	252	107244m	24.84	ng	
88) Benzo(k)fluoranthene	14.86	252	20606m	5.48	ng	
89) Benzo(a)pyrene	15.17	252	39533	10.82	ng	# 66
90) Dibenzo(a,h)anthracene	16.55	278	9525m	3.12	ng	
91) Benzo(g,h,i)perylene	16.94	276	33918	10.74	ng	# 92

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

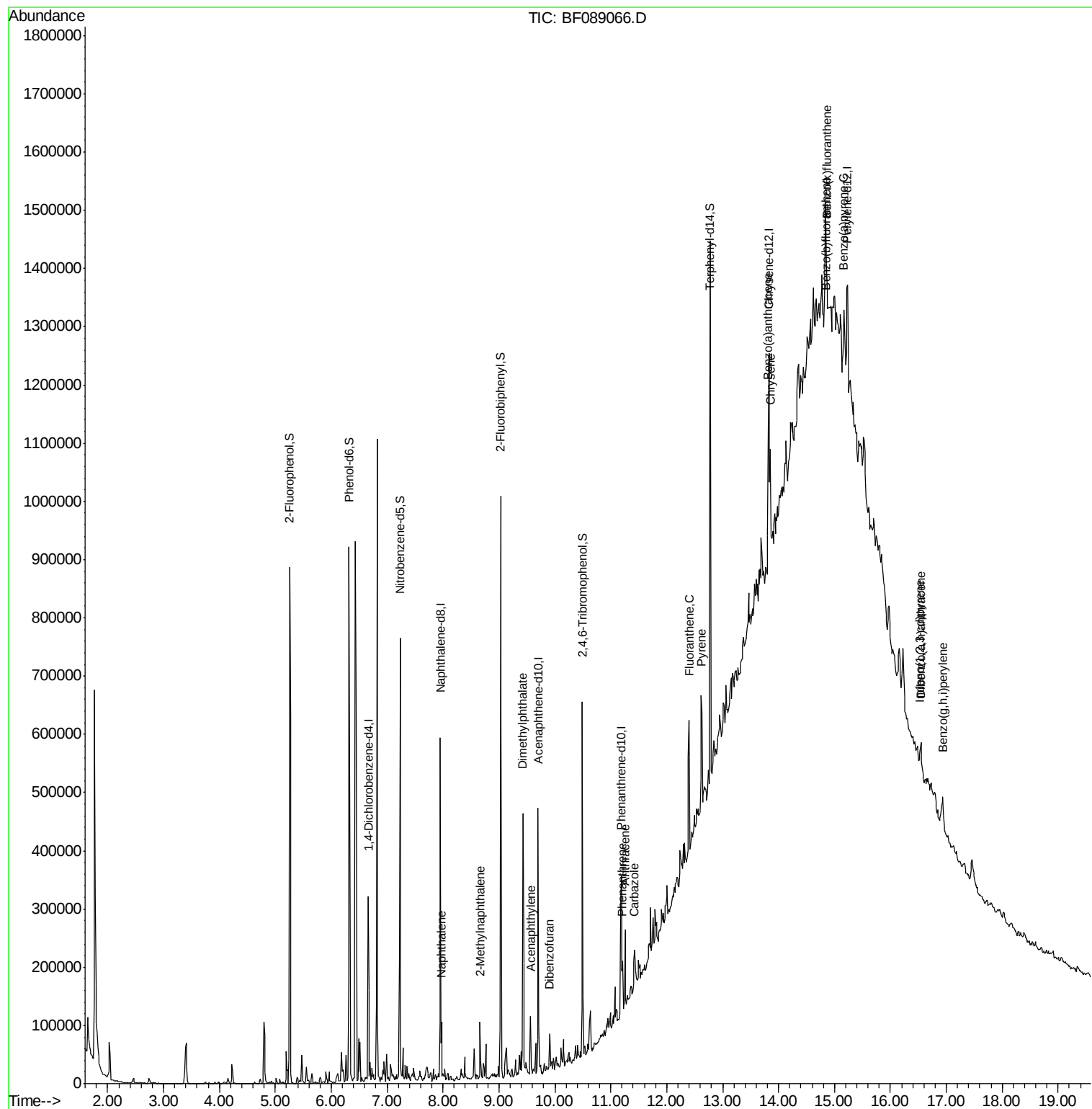
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 444

Delta R.T. -0.05 min

Lab File: BF089066.D

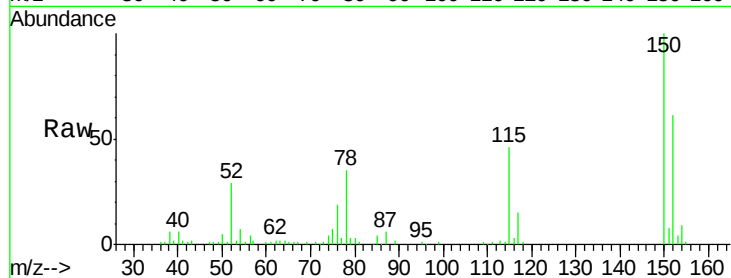
Acq: 16 Jul 2016 20:43

Instrument :

BNA_F

ClientSampled :

C5-11



Tot Ion:152 Resp: 50990

Ion Ratio Lower Upper

152 100

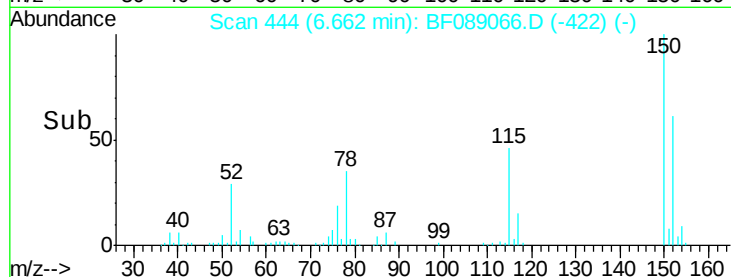
150 163.5 123.8 185.6

115 75.9 39.6 59.4#

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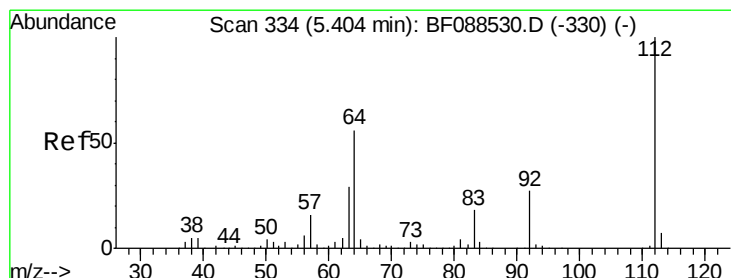
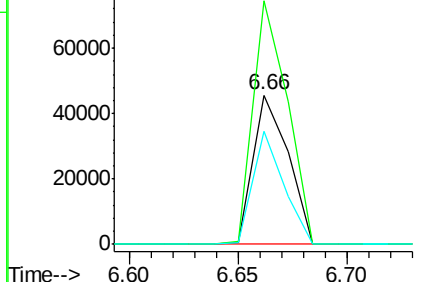
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 92.34 ng

RT: 5.26 min Scan# 321

Delta R.T. -0.03 min

Lab File: BF089066.D

Acq: 16 Jul 2016 20:43

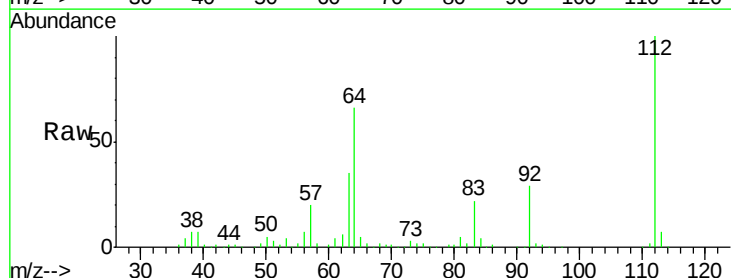
Tgt Ion:112 Resp: 314182

Ion Ratio Lower Upper

112 100

64 65.7 42.2 63.2#

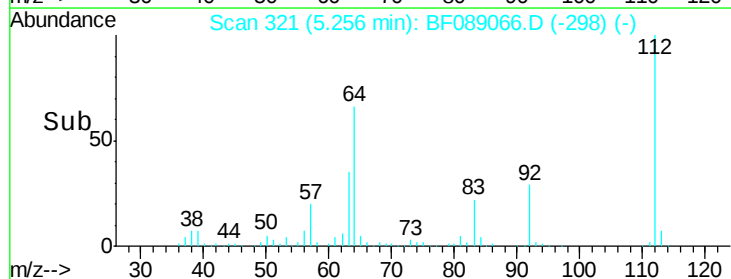
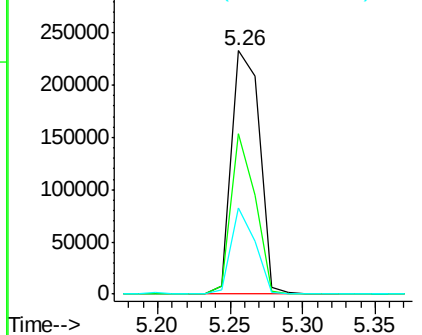
63 35.2 21.8 32.8#

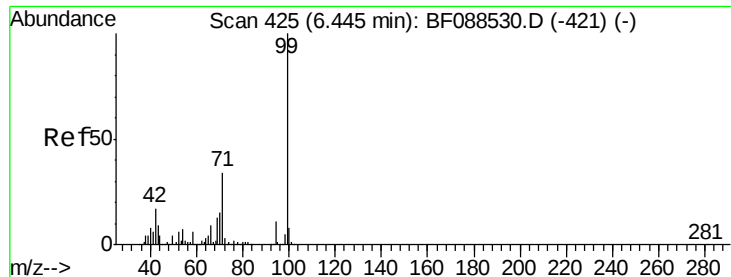


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 86.73 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089066.D

Acq: 16 Jul 2016 20:43

Instrument :

BNA_F

ClientSampleId :

C5-11

Tot Ion: 99 Resp: 381269

Ion Ratio Lower Upper

99 100

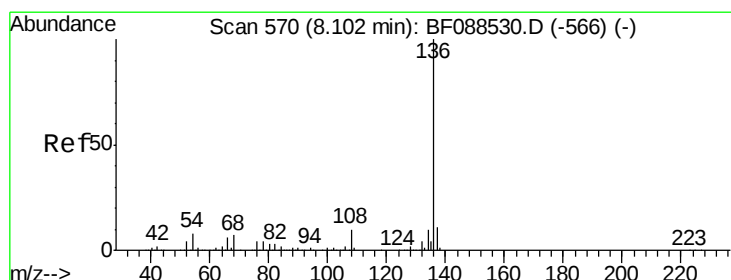
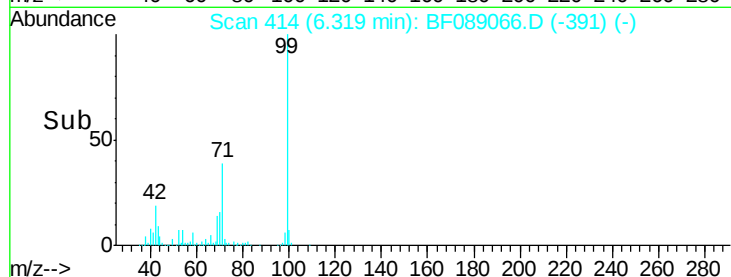
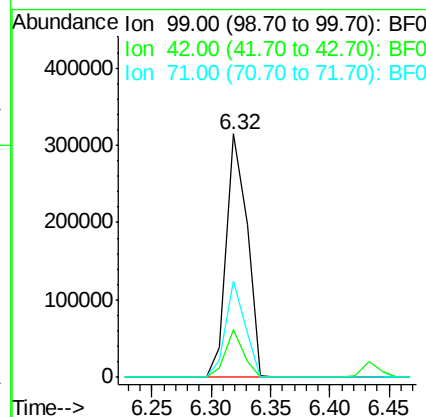
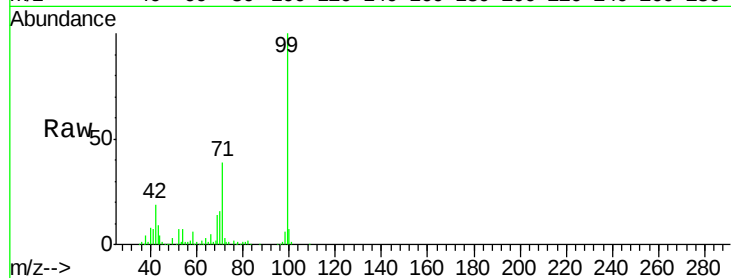
42 19.4 12.2 18.2#

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: BF089066.D

Acq: 16 Jul 2016 20:43

Tgt Ion: 136 Resp: 214335

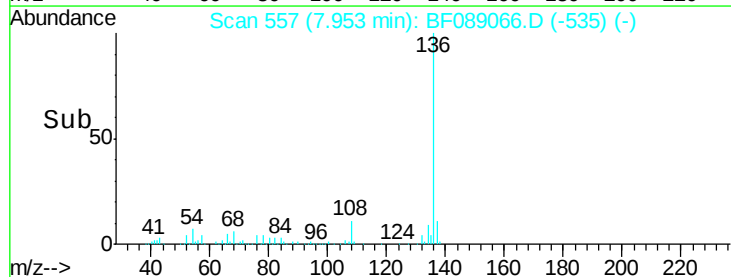
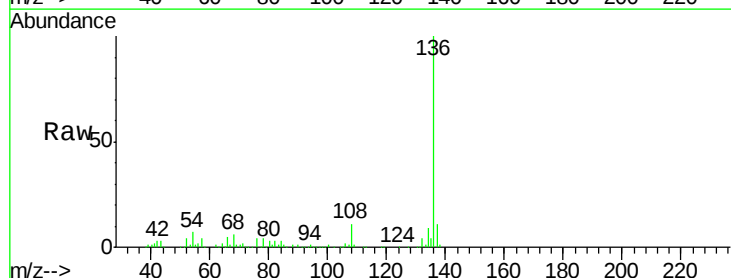
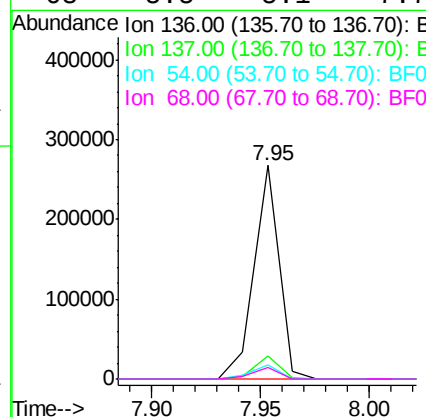
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 6.9 6.6 10.0

68 5.5 5.1 7.7





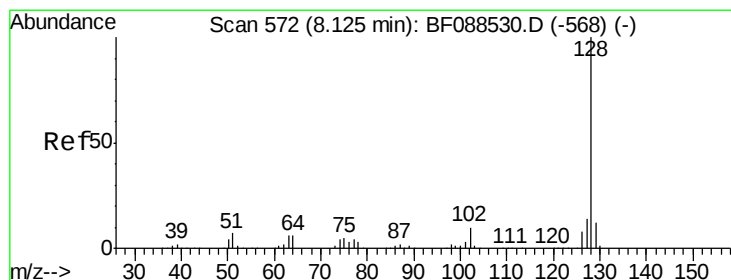
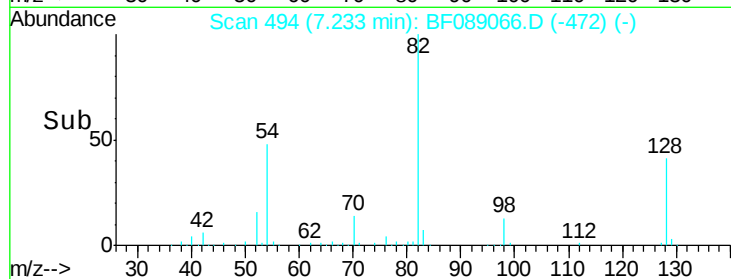
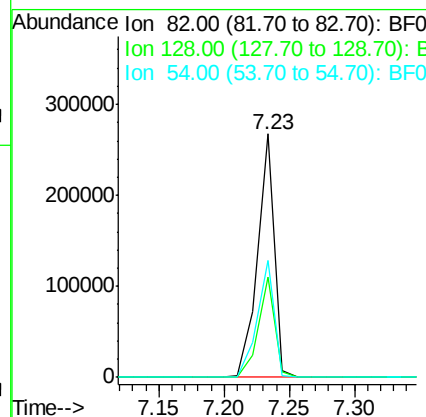
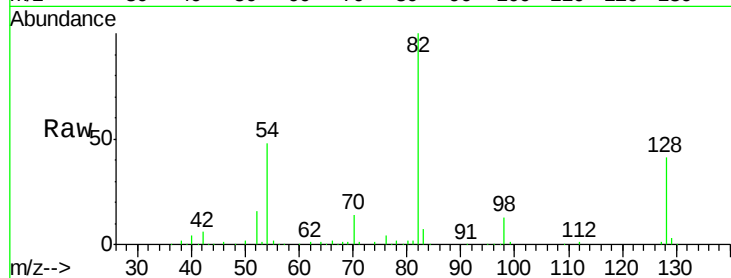
#23
Nitrobenzene-d5
Concen: 58.87 ng
RT: 7.23 min Scan# 494
Delta R.T. -0.05 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampled :
C5-11

Tot Ion	82	Resp	240791
Ion Ratio	100	Lower	Upper
82	100		
128	41.1	35.9	53.9
54	47.9	40.9	61.3

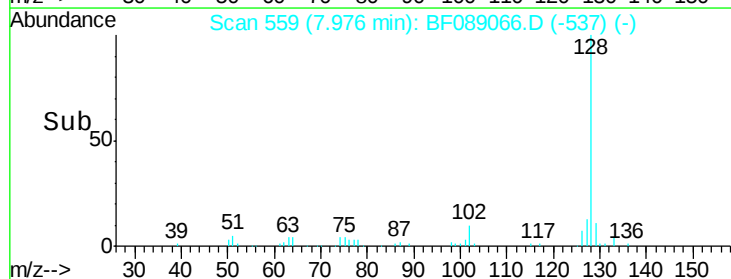
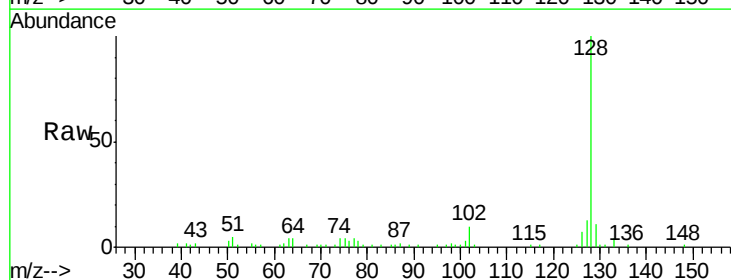
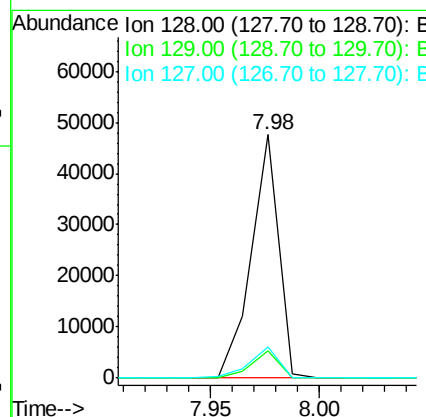
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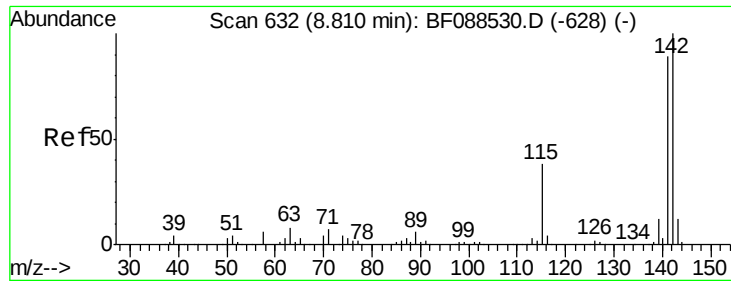
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#31
Naphthalene
Concen: 3.93 ng
RT: 7.98 min Scan# 559
Delta R.T. -0.05 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	128	Resp	41509
Ion Ratio	100	Lower	Upper
128	100		
129	11.0	9.4	14.2
127	12.8	10.9	16.3





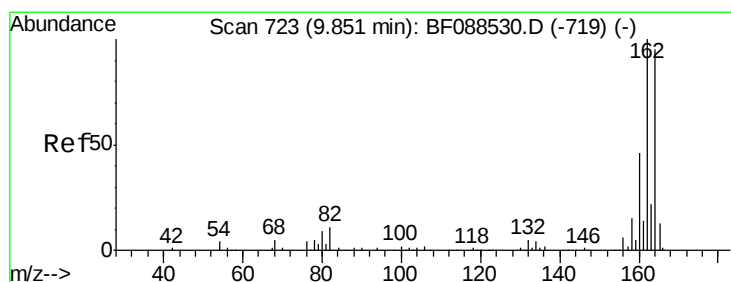
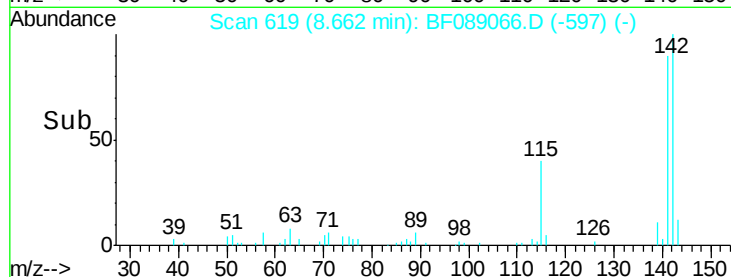
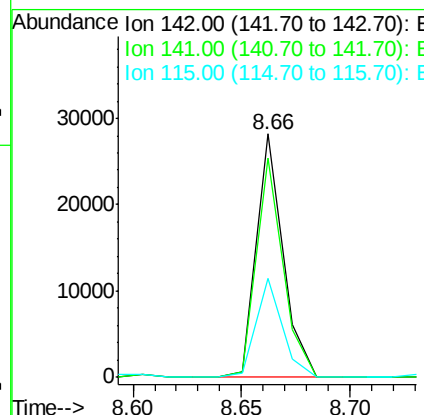
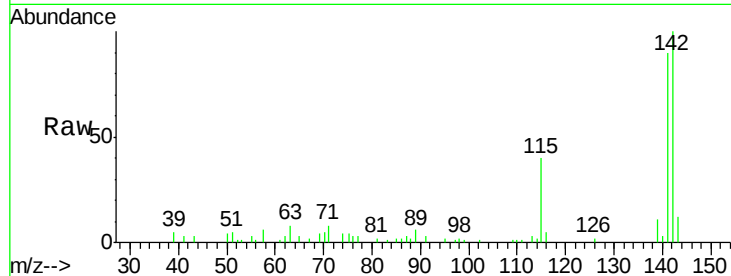
#37
2-Methylnaphthalene
Concen: 3.53 ng
RT: 8.66 min Scan# 619
Delta R.T. -0.05 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampleId :
C5-11

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.0	106.6
115	40.4	22.6	33.8

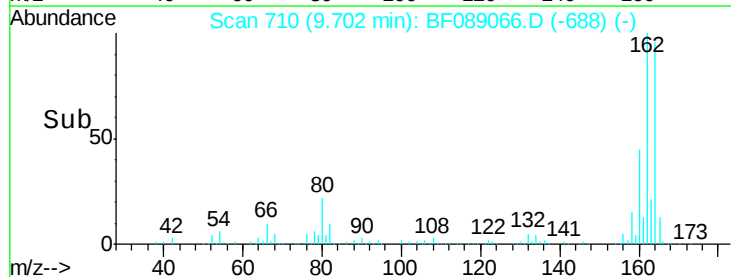
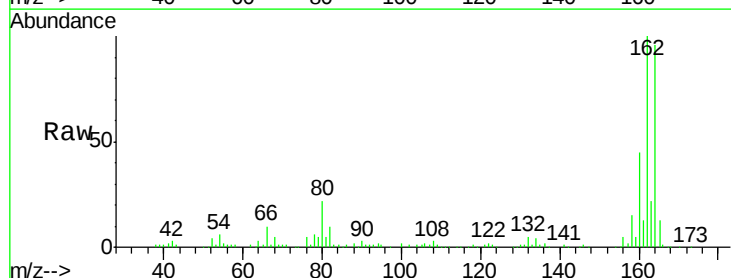
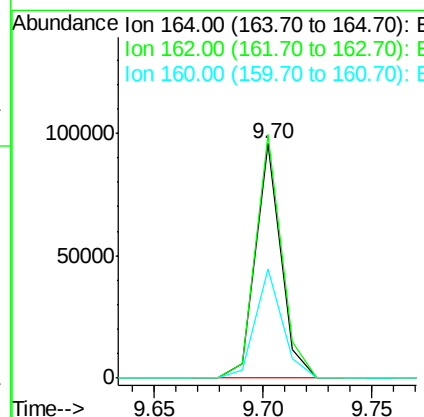
Manual Integrations

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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: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	85.4	128.2
160	46.3	39.5	59.3





#41

2,4,6-Tribromophenol

Concen: 66.74 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.05 min

Lab File: BF089066.D

Acq: 16 Jul 2016 20:43

Instrument :

BNA_F

ClientSampleId :

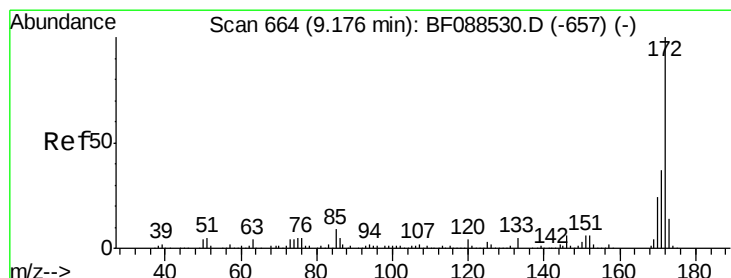
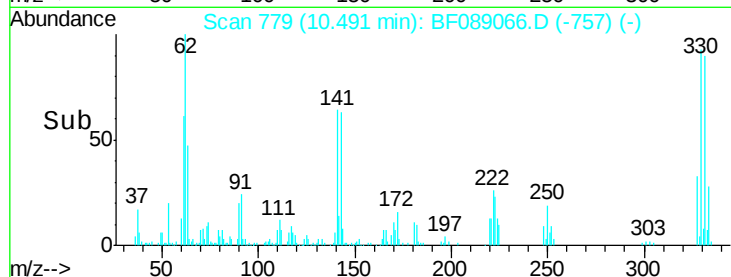
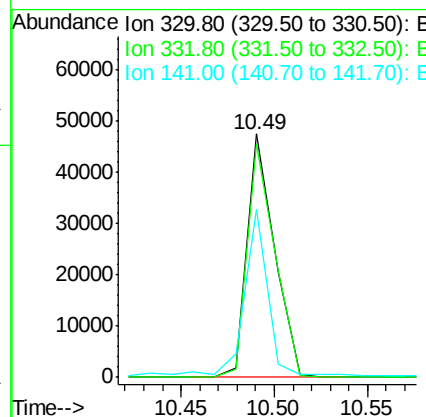
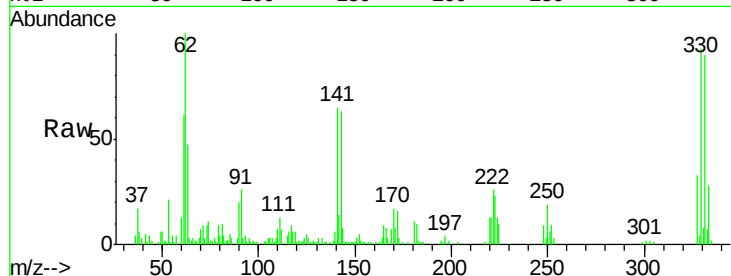
C5-11

Tot Ion:	330	Resp:	48186
Ion Ratio	Lower	Upper	
330	100		
332	97.3	0.0	0.0#
141	61.4	0.0	0.0#

Manual Integrations

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#44

2-Fluorobiphenyl

Concen: 79.64 ng

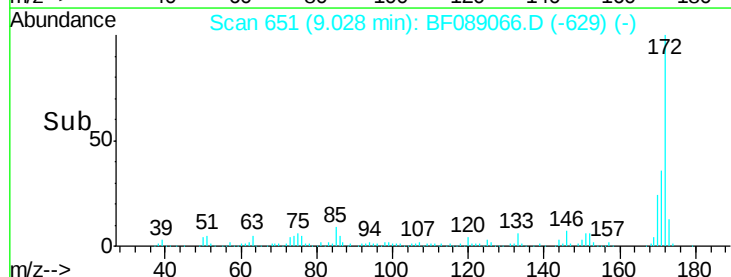
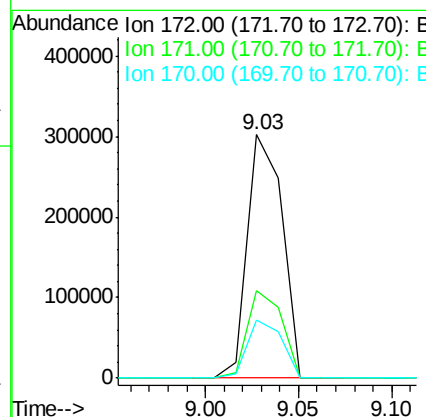
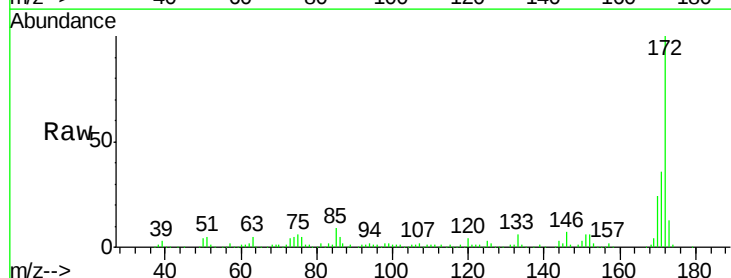
RT: 9.03 min Scan# 651

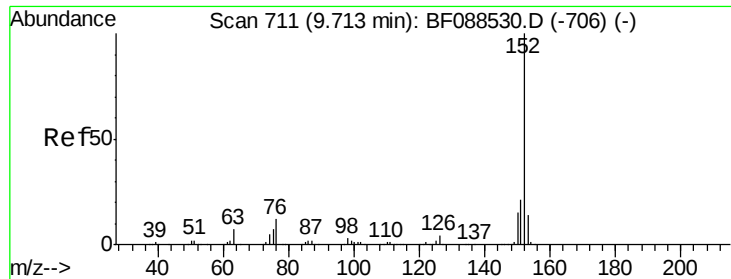
Delta R.T. -0.05 min

Lab File: BF089066.D

Acq: 16 Jul 2016 20:43

Tgt Ion:	172	Resp:	392019
Ion Ratio	Lower	Upper	
172	100		
171	36.1	28.6	43.0
170	23.6	19.2	28.8





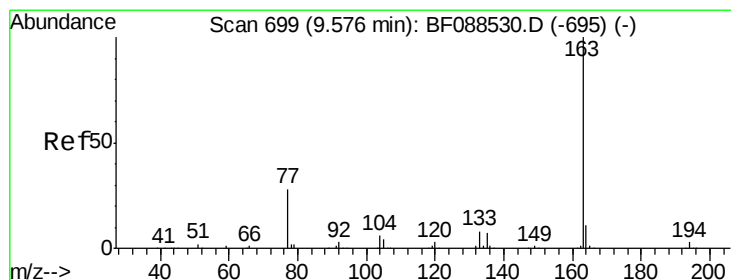
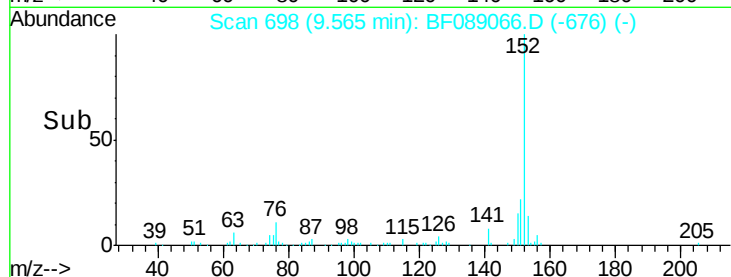
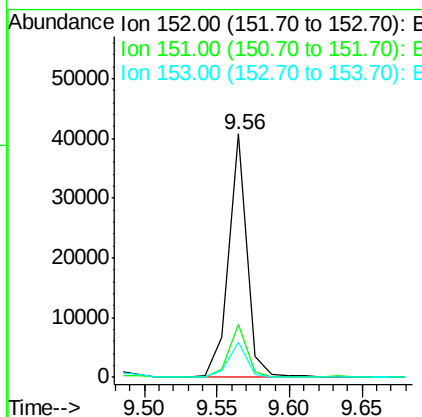
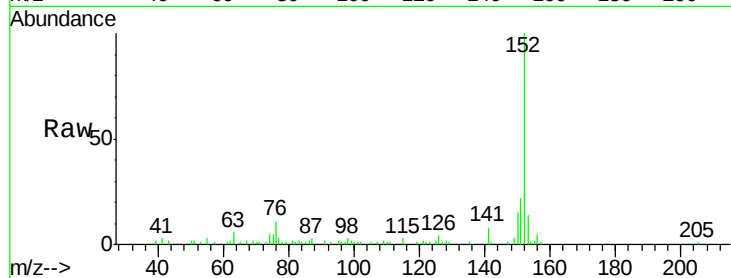
#48
Acenaphthylene
Concen: 4.48 ng
RT: 9.56 min Scan# 698
Delta R.T. -0.05 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampled :
C5-11

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.8	16.2	24.4
153	14.5	11.0	16.6

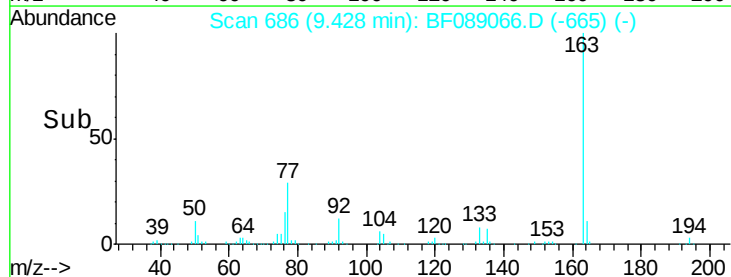
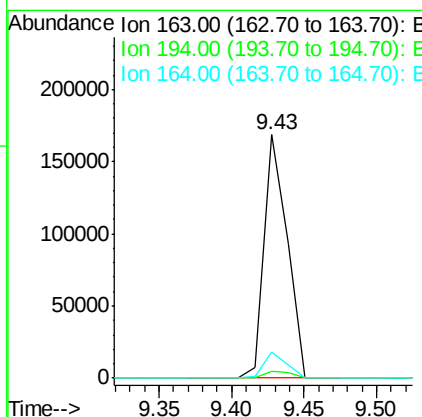
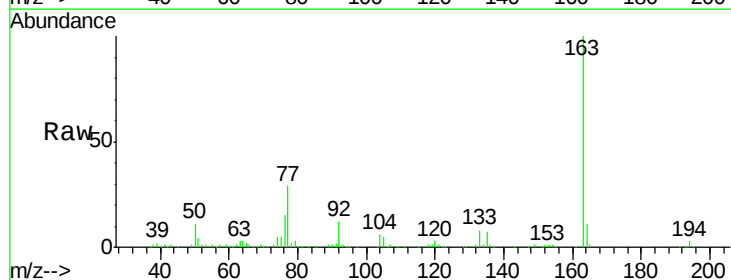
Manual Integrations

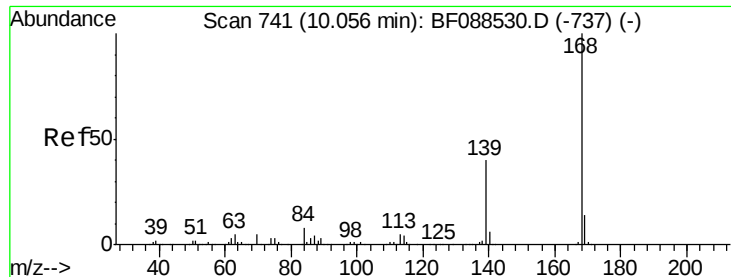
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#49
Dimethylphthalate
Concen: 33.43 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.06 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.8	4.2
164	10.8	8.3	12.5





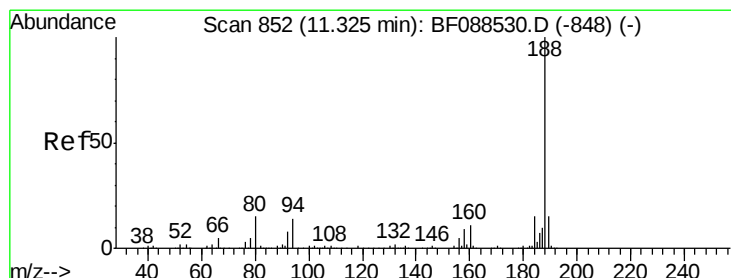
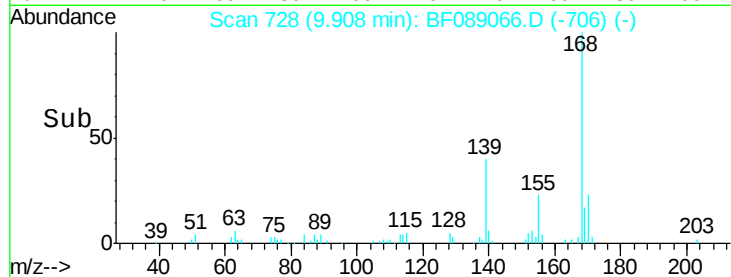
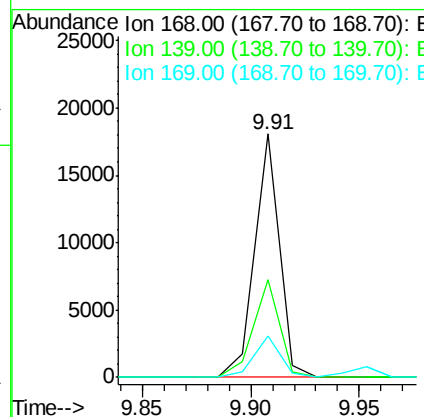
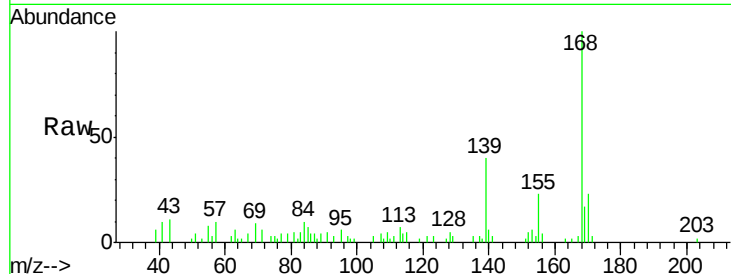
#54
Dibenzenofuran
Concen: 2.20 ng
RT: 9.91 min Scan# 728
Delta R.T. -0.05 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampled :
C5-11

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.3	26.4	39.6#
169	17.2	10.4	15.6#

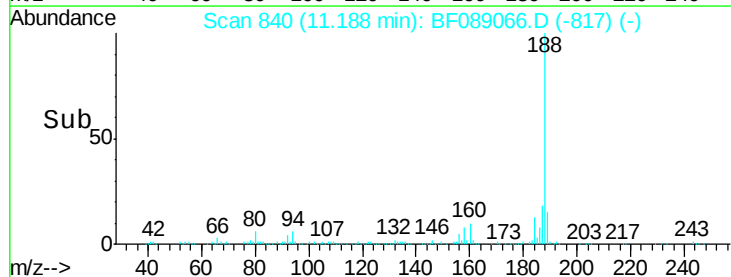
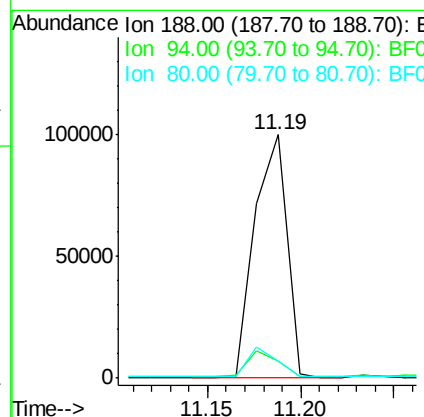
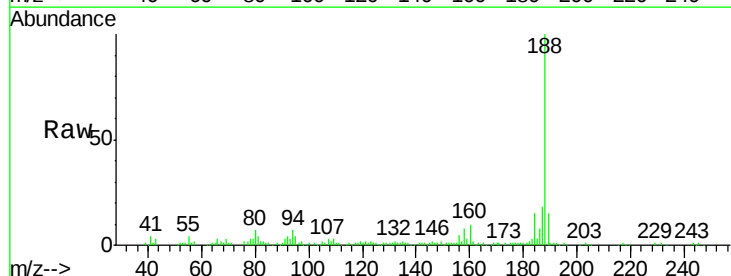
Manual Integrations

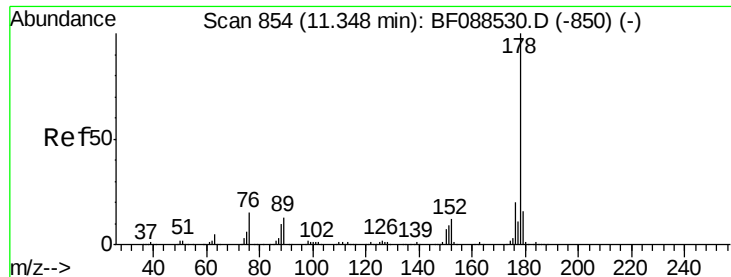
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.03 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.1	9.0	13.6#
80	6.9	10.0	15.0#





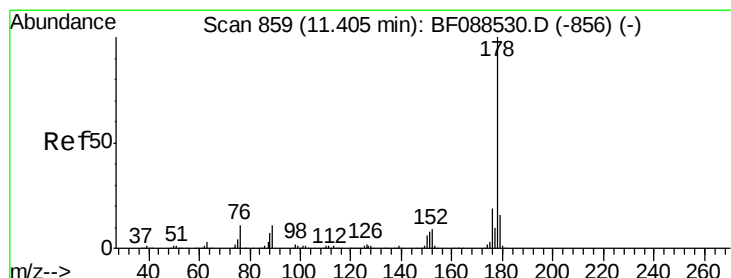
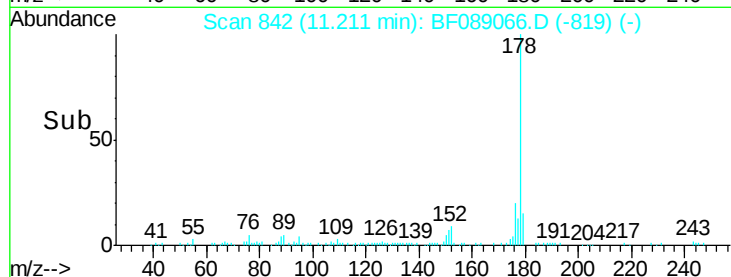
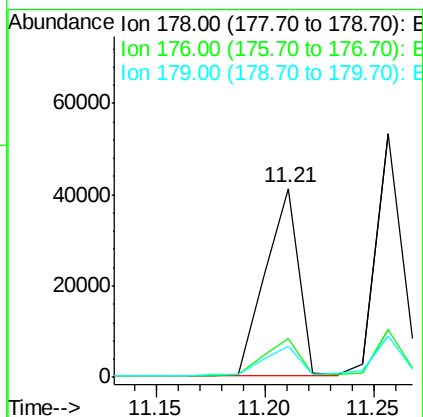
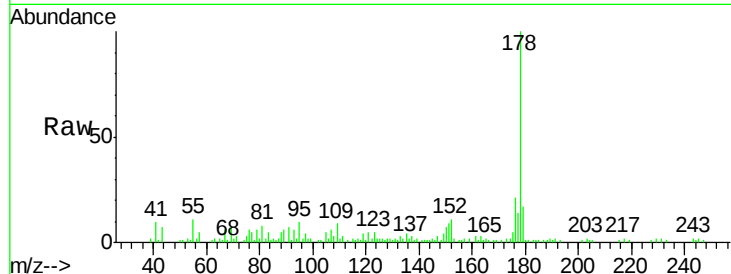
#70
Phenanthrene
Concen: 6.73 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampleId :
C5-11

Tot Ion:178 Resp: 44004
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.6
179 16.6 13.0 19.4

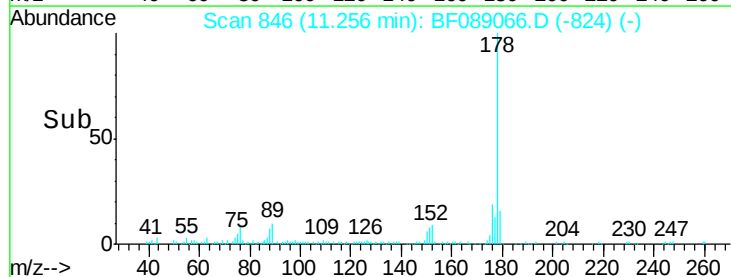
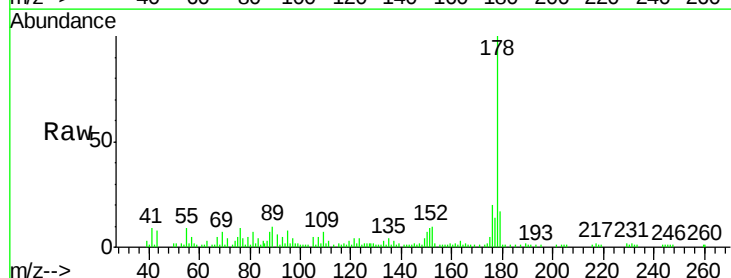
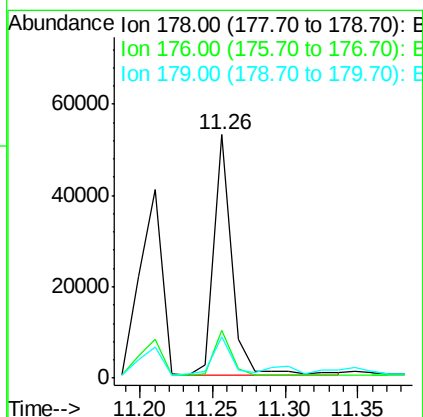
Manual Integrations

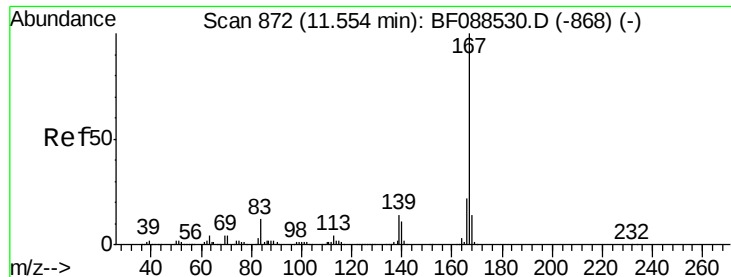
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#71
Anthracene
Concen: 7.00 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.05 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion:178 Resp: 45521
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 17.0 12.8 19.2





#72

Carbazole

Concen: 2.69 ng

RT: 11.42 min Scan# 860

Delta R.T. -0.03 min

Lab File: BF089066.D

Acq: 16 Jul 2016 20:43

Instrument :

BNA_F

ClientSampled :

C5-11

Tot Ion:167 Resp: 16448

Ion Ratio Lower Upper

167 100

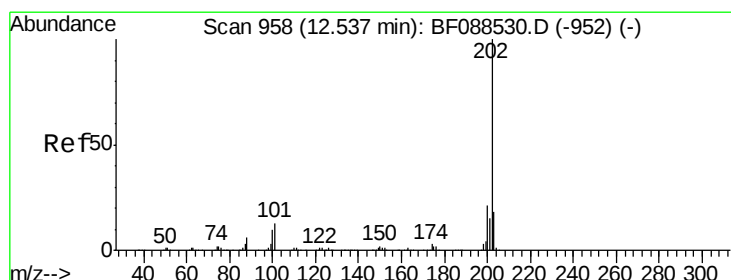
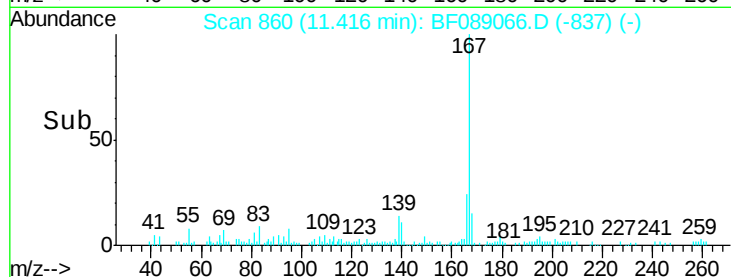
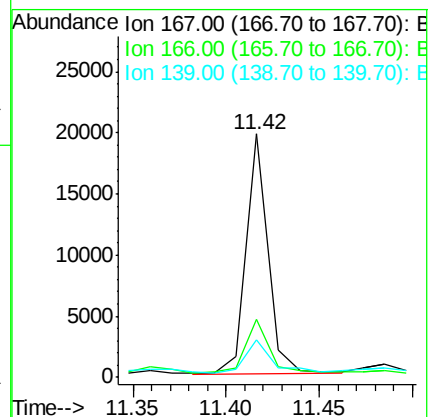
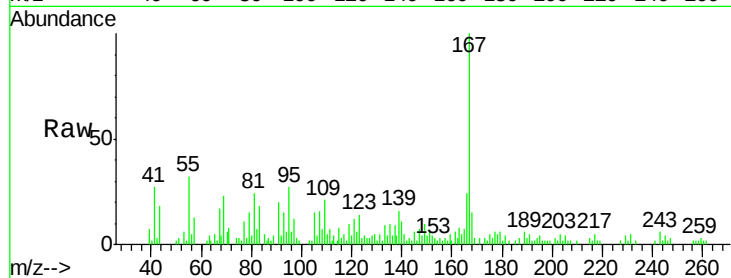
166 23.6 17.8 26.6

139 15.6 11.2 16.8

Manual Integrations

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#74

Fluoranthene

Concen: 18.29 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF089066.D

Acq: 16 Jul 2016 20:43

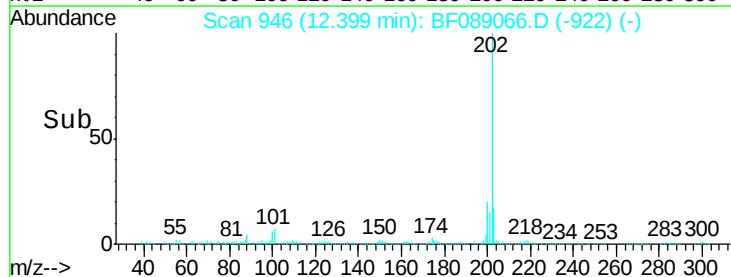
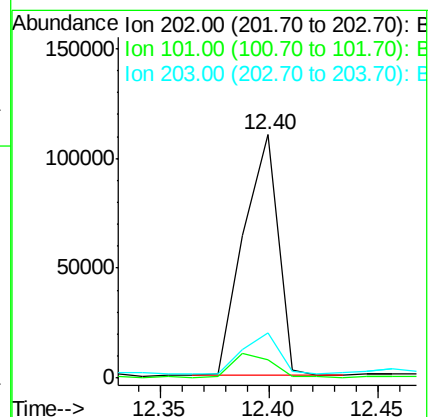
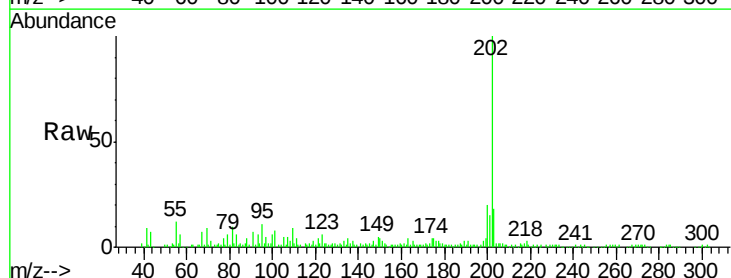
Tgt Ion:202 Resp: 121239

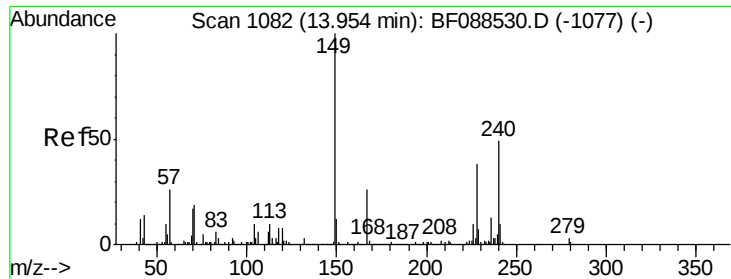
Ion Ratio Lower Upper

202 100

101 7.7 0.0 33.1

203 18.4 0.0 38.1





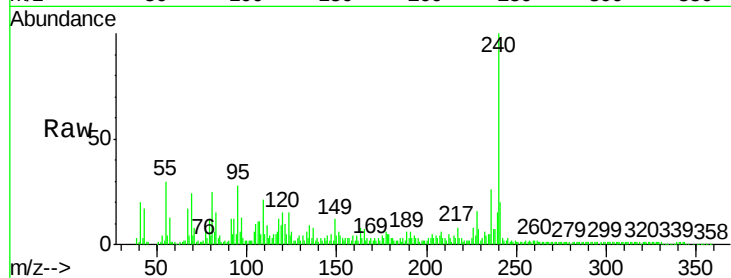
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.83 min Scan# 1071
Delta R.T. -0.02 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampled :
C5-11

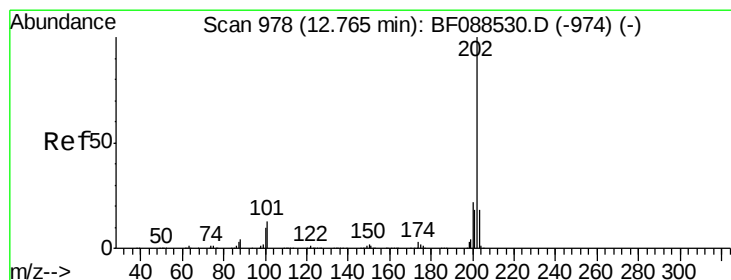
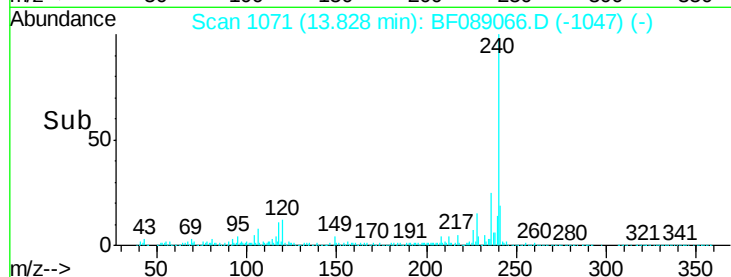
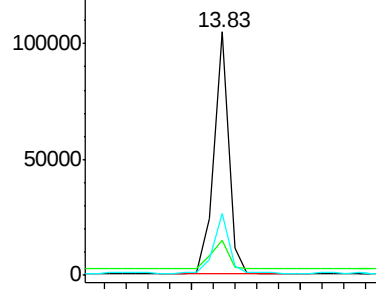
Tot Ion	Ratio	Lower	Upper
240	100		
120	14.6	6.8	10.2
236	25.6	20.2	30.2

Manual Integrations

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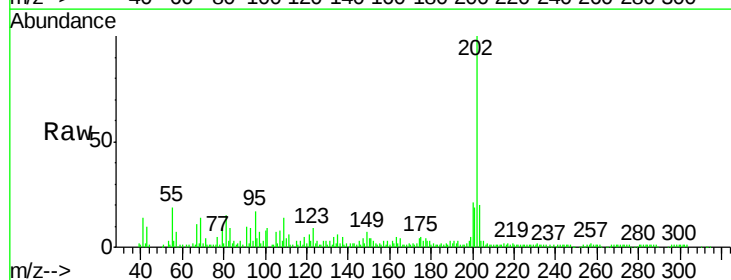


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

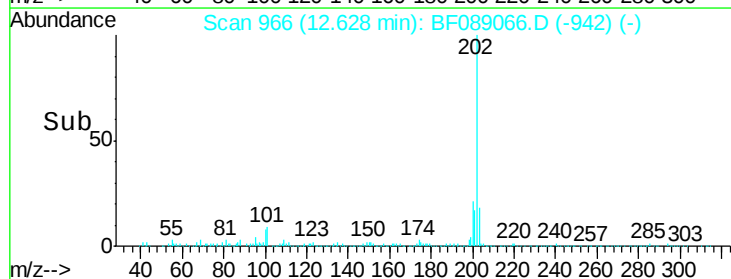
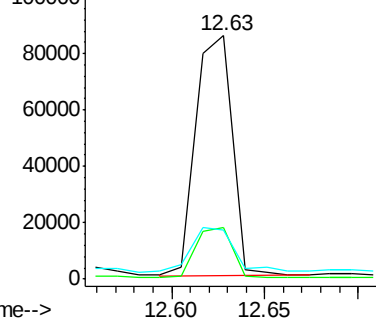


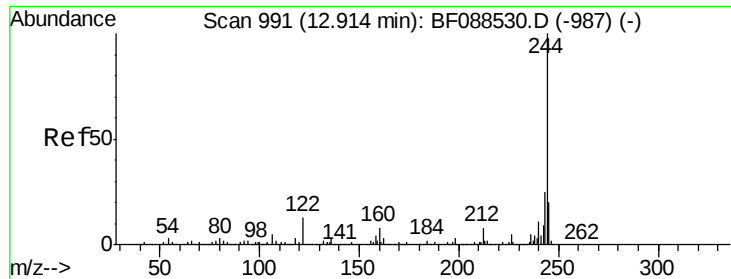
#77
Pyrene
Concen: 14.32 ng
RT: 12.63 min Scan# 966
Delta R.T. -0.02 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2
203	20.0	14.5	21.7



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 61.75 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.02 min

Lab File: BF089066.D

Acq: 16 Jul 2016 20:43

Instrument :

BNA_F

ClientSampleId :

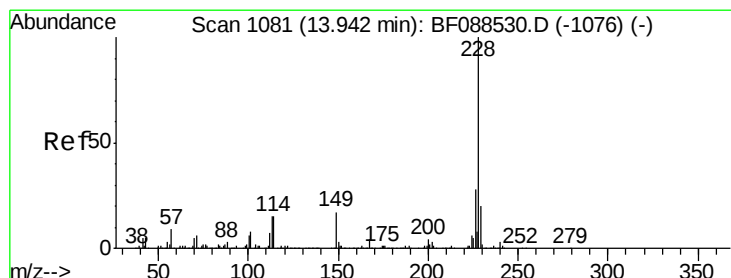
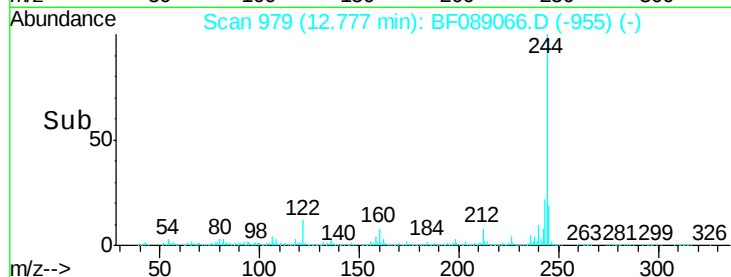
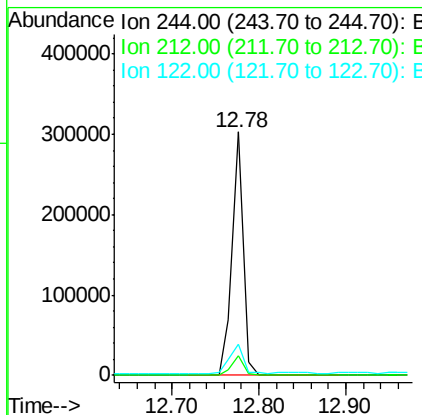
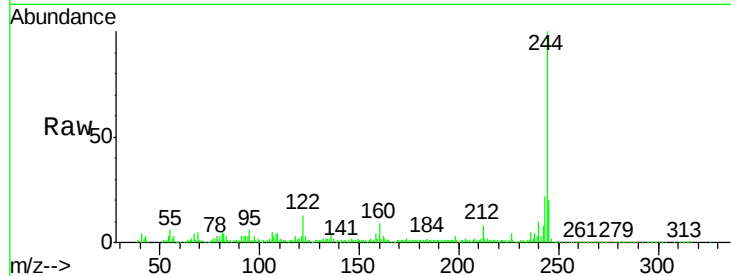
C5-11

Tot Ion:	244	Resp:	267492
Ion Ratio	Lower	Upper	
244	100		
212	7.9	6.0	9.0
122	12.9	11.2	16.8

Manual Integrations

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#80

Benzo(a)anthracene

Concen: 9.36 ng

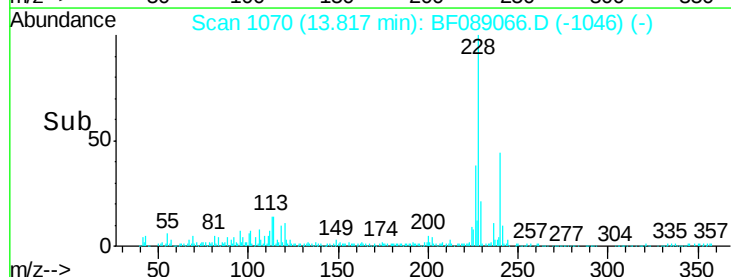
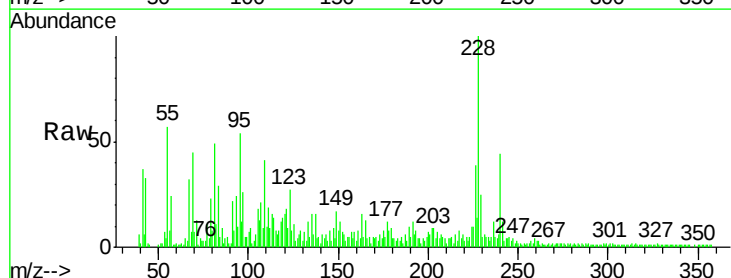
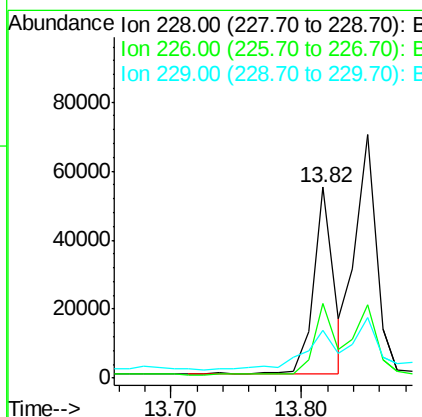
RT: 13.82 min Scan# 1070

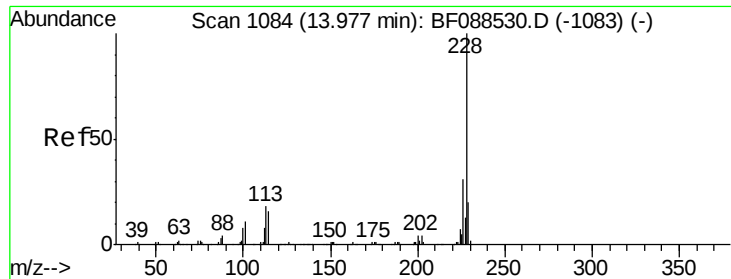
Delta R.T. -0.02 min

Lab File: BF089066.D

Acq: 16 Jul 2016 20:43

Tgt Ion:	228	Resp:	58177
Ion Ratio	Lower	Upper	
228	100		
226	39.2	22.3	33.5#
229	25.1	16.0	24.0#





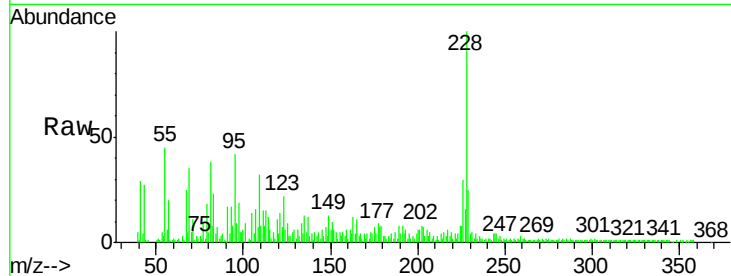
#82
Chrysene
Concen: 12.76 ng
RT: 13.85 min Scan# 1073
Delta R.T. -0.02 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampleId :
C5-11

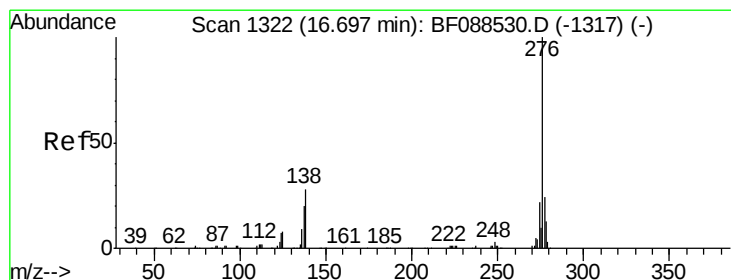
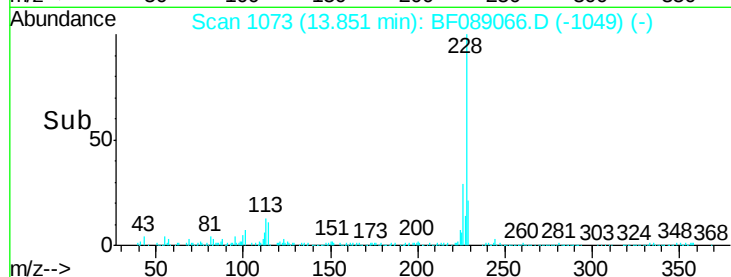
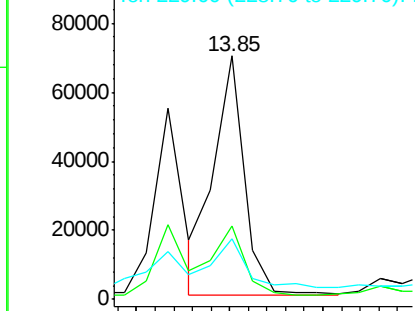
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.4	38.2
229	25.0	16.3	24.5#

Manual Integrations

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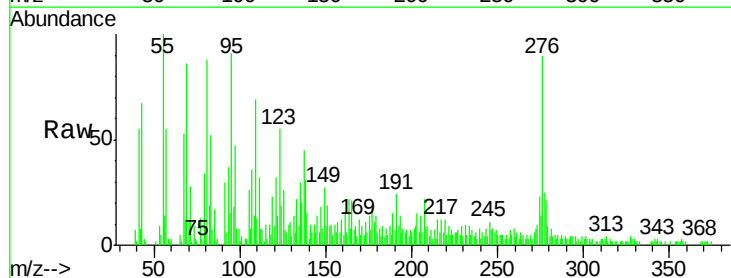


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

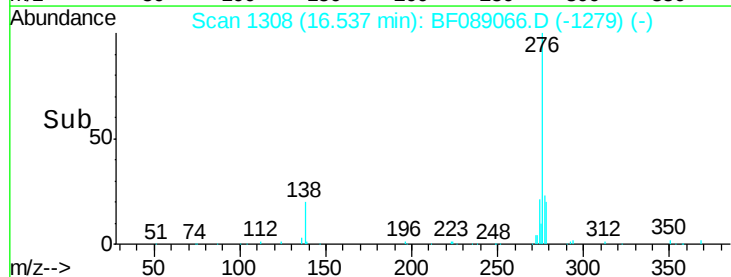
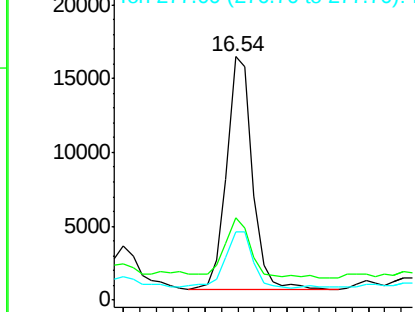


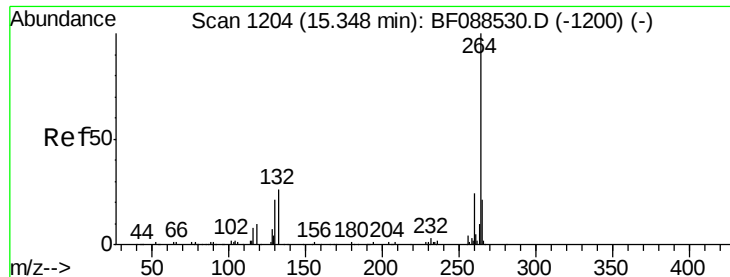
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.34 ng
RT: 16.54 min Scan# 1308
Delta R.T. 0.03 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.7	0.0	0.0#
277	25.6	0.0	0.0#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





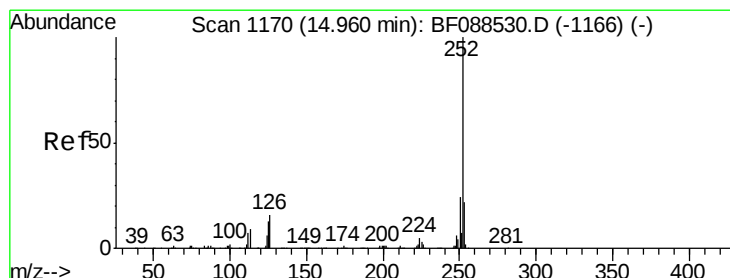
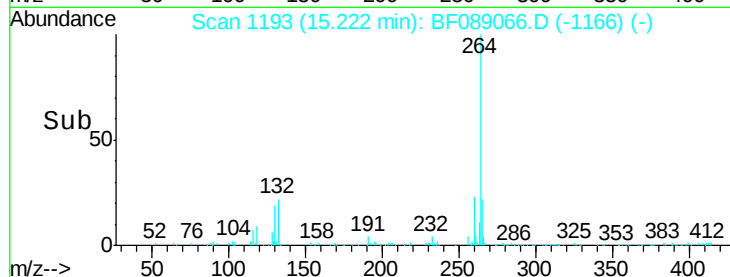
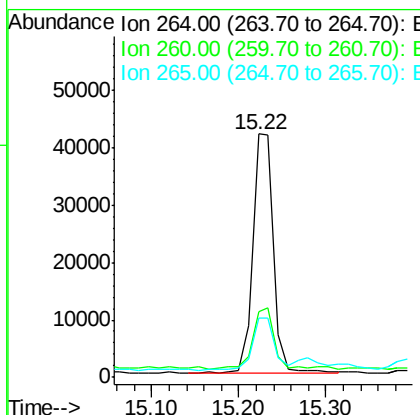
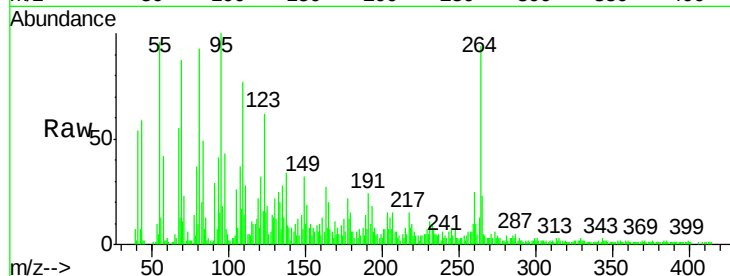
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.22 min Scan# 1193
Delta R.T. 0.01 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampled :
C5-11

Tot Ion	Ion	Ratio	Lower	Upper
264	100			
260	26.9	19.2	28.8	
265	24.4	16.9	25.3	

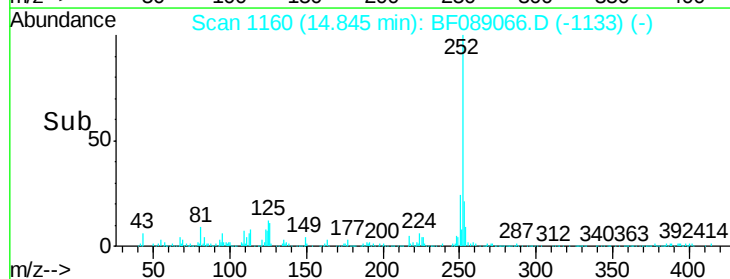
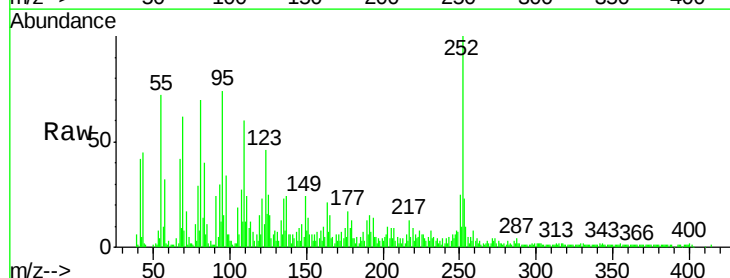
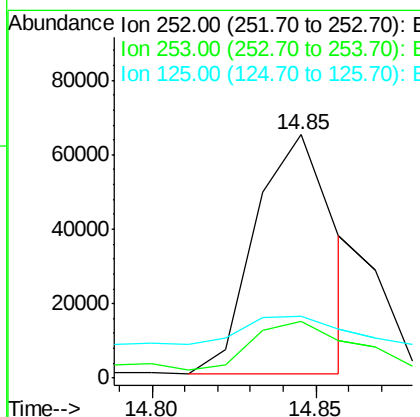
Manual Integrations

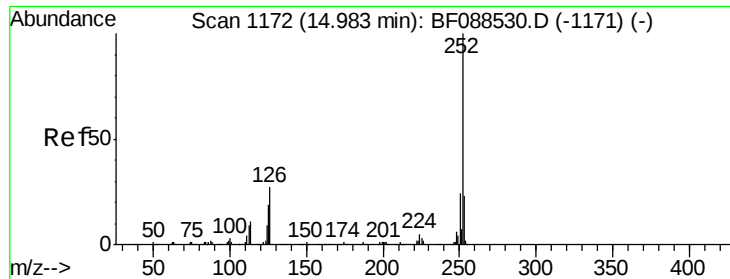
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#87
Benzo(b)fluoranthene
Concen: 24.84 ng m
RT: 14.85 min Scan# 1160
Delta R.T. 0.01 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	Ion	Ratio	Lower	Upper
252	100			
253	23.3	17.4	26.2	
125	25.3	7.1	10.7#	





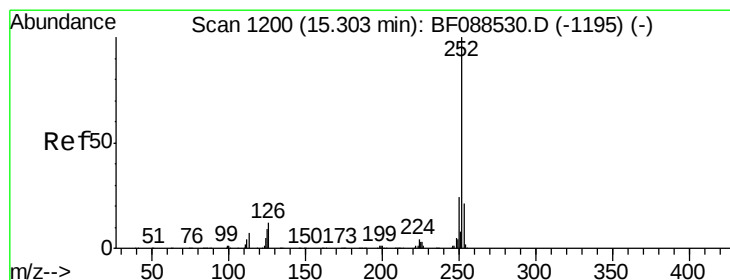
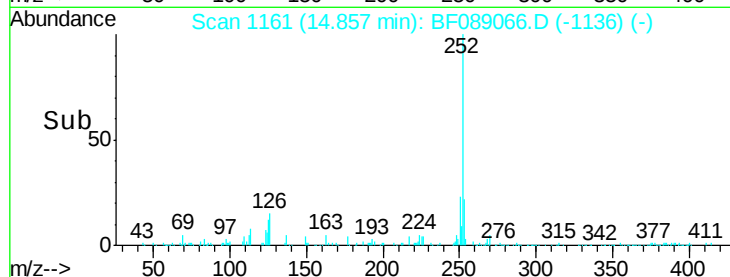
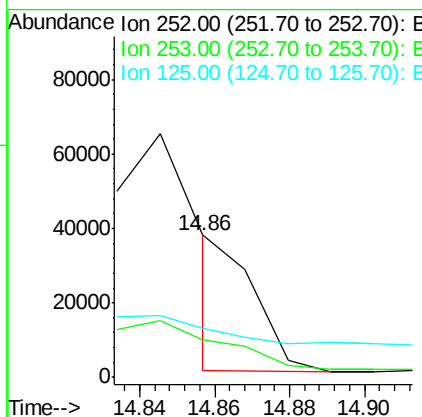
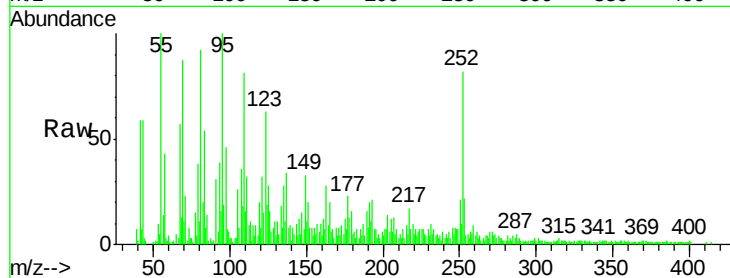
#88
Benzo(k)fluoranthene
Concen: 5.48 ng m
RT: 14.86 min Scan# 1161
Delta R.T. -0.01 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampled :
C5-11

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.6	18.0	27.0
125	34.8	11.2	16.8

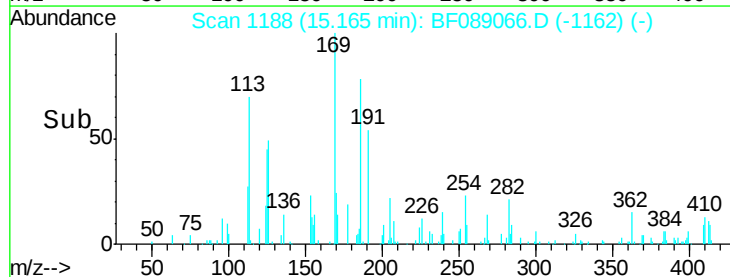
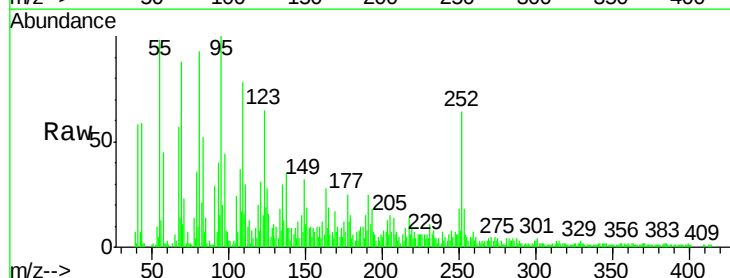
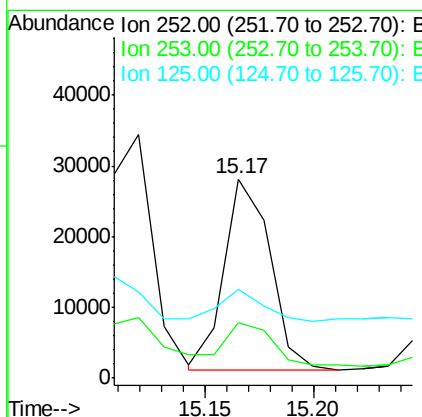
Manual Integrations

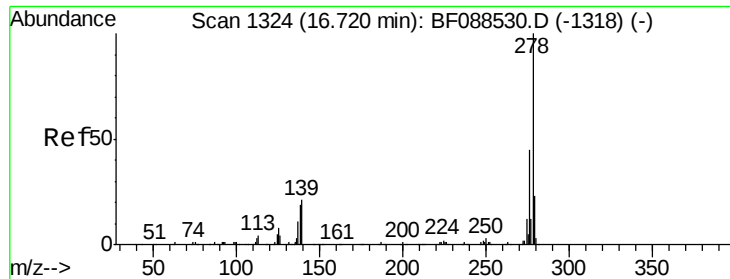
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#89
Benzo(a)pyrene
Concen: 10.82 ng
RT: 15.17 min Scan# 1188
Delta R.T. 0.00 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	17.9	26.9
125	44.2	12.5	18.7





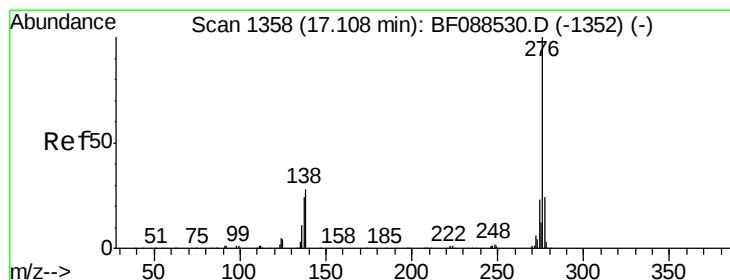
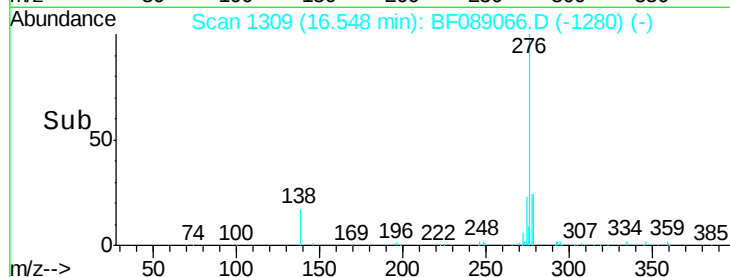
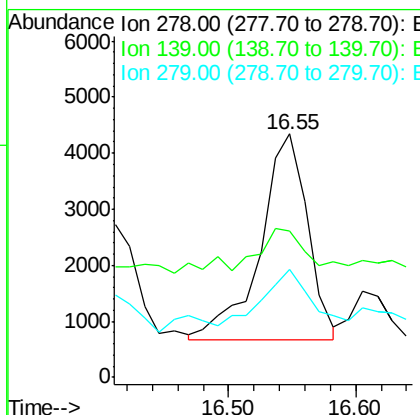
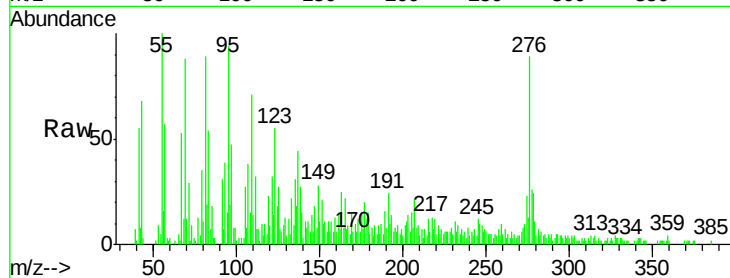
#90
Dibenzo(a,h)anthracene
Concen: 3.12 ng m
RT: 16.55 min Scan# 1309
Delta R.T. 0.03 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Instrument :
BNA_F
ClientSampled :
C5-11

Tot Ion	Ratio	Lower	Upper
278	100		
139	60.1	15.7	23.5#
279	44.4	19.4	29.2#

Manual Integrations

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#91
Benzo(g,h,i)perylene
Concen: 10.74 ng
RT: 16.94 min Scan# 1343
Delta R.T. 0.05 min
Lab File: BF089066.D
Acq: 16 Jul 2016 20:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.5	18.9	28.3
138	32.2	21.4	32.2#

