

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089063.D
 Acq On : 16 Jul 2016 19:13
 Operator : UM/SJ
 Sample : H3951-12
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(2-3.5ft)

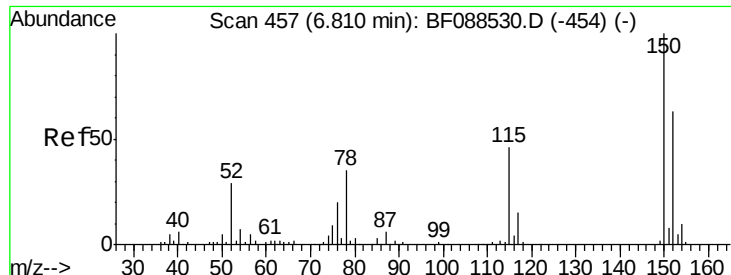
Manual Integrations

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Quant Time: Jul 18 02:14:54 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	49247	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	202810	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	73680	20.00	ng	-0.05
63) Phenanthrene-d10	11.18	188	115469	20.00	ng	-0.05
75) Chrysene-d12	13.82	240	94895	20.00	ng	-0.03
86) Perylene-d12	15.19	264	71541	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	362388	110.28	ng	-0.02
7) Phenol-d6	6.32	99	445874	105.01	ng	-0.03
23) Nitrobenzene-d5	7.23	82	252965	65.36	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	52470	76.69	ng	-0.05
44) 2-Fluorobiphenyl	9.03	172	443708	95.12	ng	-0.05
78) Terphenyl-d14	12.78	244	311388	73.09	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.56	152	92806	12.18	ng	98
49) Dimethylphthalate	9.43	163	115502	22.00	ng	99
70) Phenanthrene	11.21	178	57583	9.12	ng	99
71) Anthracene	11.26	178	76583	12.20	ng	97
74) Fluoranthene	12.39	202	146513	22.90	ng	98
77) Pyrene	12.62	202	227284	28.25	ng	99
80) Benzo(a)anthracene	13.81	228	111841	18.30	ng	# 85
82) Chrysene	13.84	228	113802m	18.82	ng	
85) Indeno(1,2,3-cd)pyrene	16.47	276	45251	9.73	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	98046m	21.85	ng	
88) Benzo(k)fluoranthene	14.82	252	33242m	8.51	ng	
89) Benzo(a)pyrene	15.13	252	77750	20.46	ng	98
90) Dibenzo(a,h)anthracene	16.48	278	13771	4.34	ng	# 84
91) Benzo(g,h,i)perylene	16.86	276	56323	17.15	ng	97

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



#1

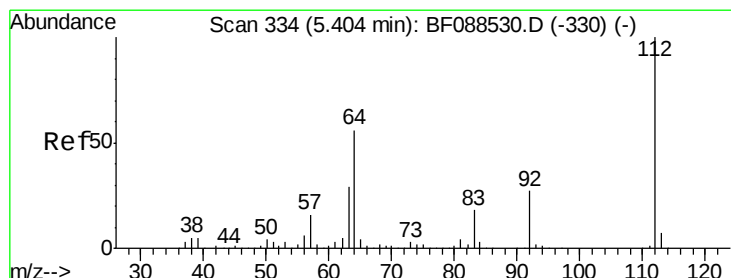
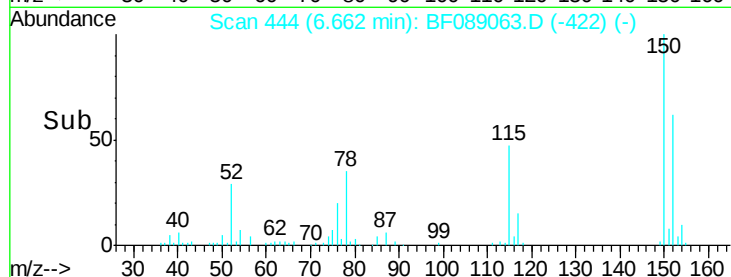
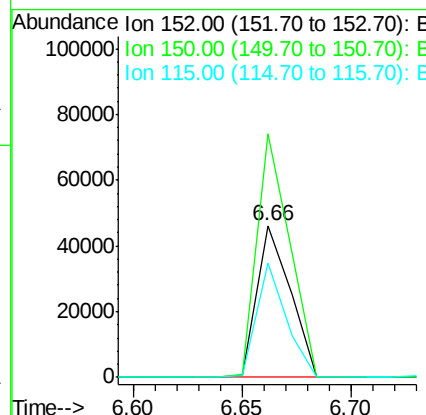
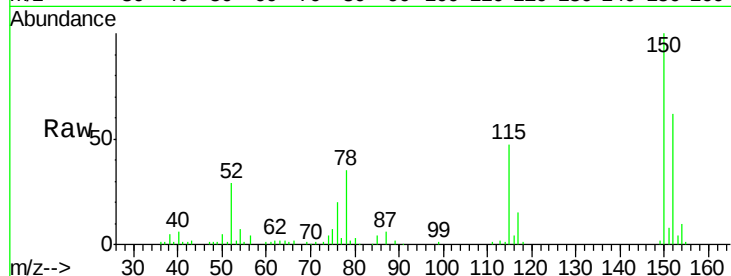
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.66 min Scan# 444
Delta R.T. -0.05 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(2-3.5ft)

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.4	123.8	185.6
115	75.7	39.6	59.4

Manual Integrations

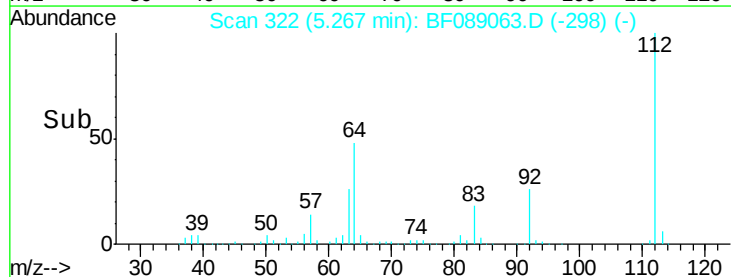
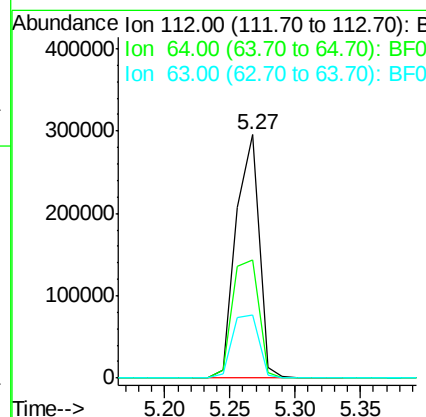
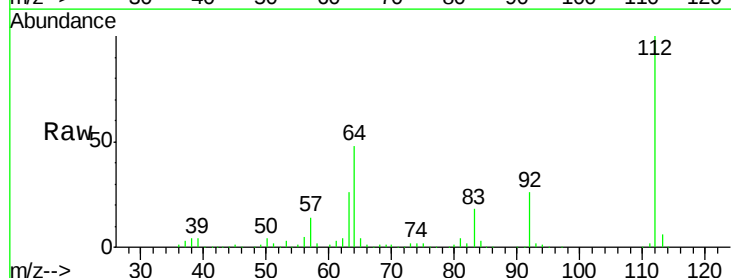
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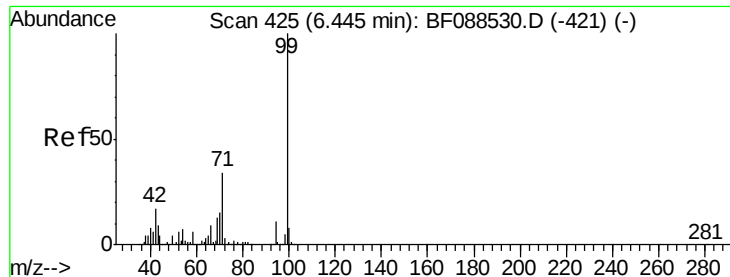


#5

2-Fluorophenol
Concen: 110.28 ng
RT: 5.27 min Scan# 322
Delta R.T. -0.02 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.4	42.2	63.2
63	26.0	21.8	32.8





#7

Phenol-d6

Concen: 105.01 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089063.D

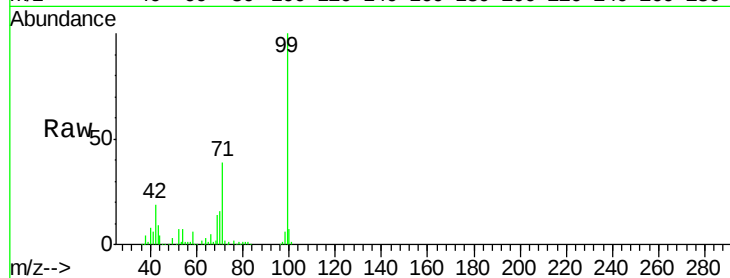
Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(2-3.5ft)



Tot Ion: 99 Resp: 445874

Ion Ratio Lower Upper

99 100

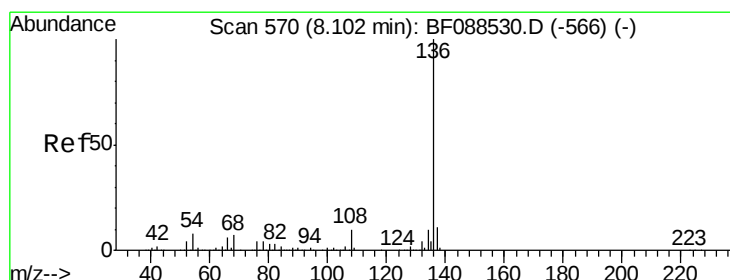
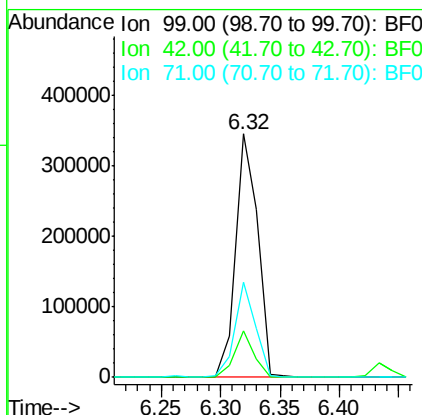
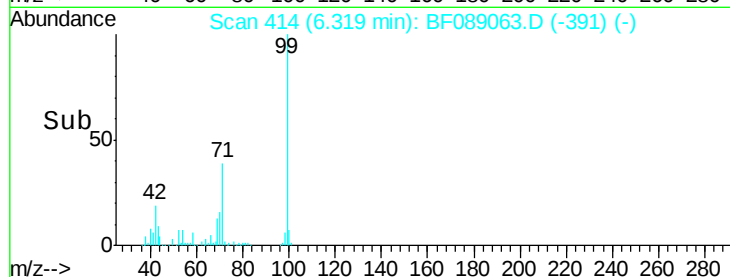
42 19.0 12.2 18.2#

71 39.2 23.4 35.0#

Manual Integrations

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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: BF089063.D

Acq: 16 Jul 2016 19:13

Tgt Ion: 136 Resp: 202810

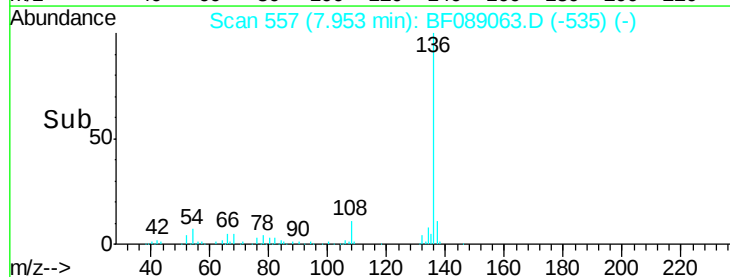
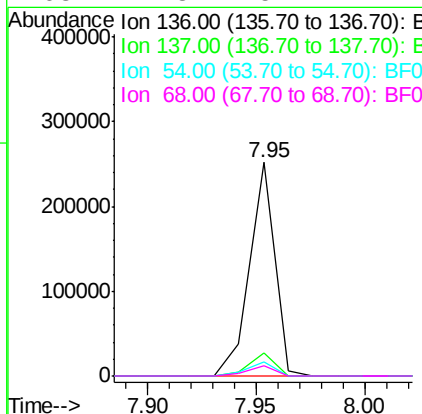
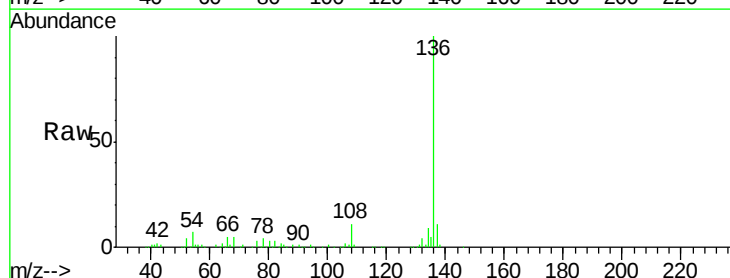
Ion Ratio Lower Upper

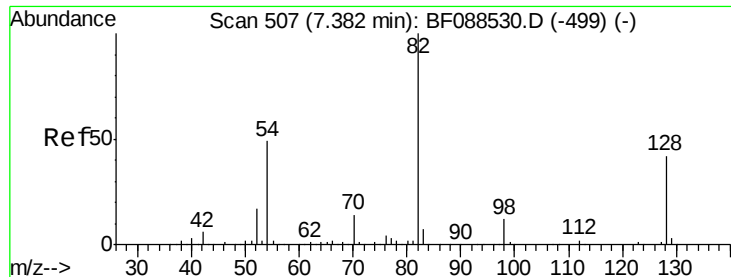
136 100

137 10.6 9.1 13.7

54 6.5 6.6 10.0#

68 4.8 5.1 7.7#





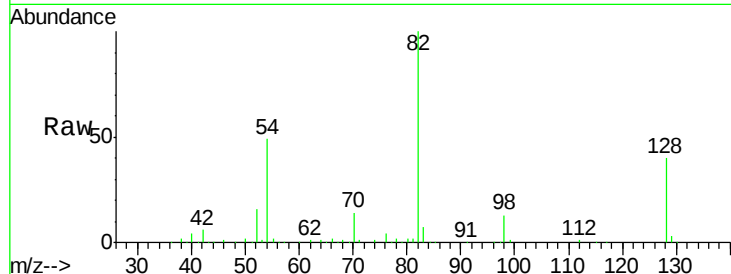
#23
 Nitrobenzene-d5
 Concen: 65.36 ng
 RT: 7.23 min Scan# 494
 Delta R.T. -0.05 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(2-3.5ft)

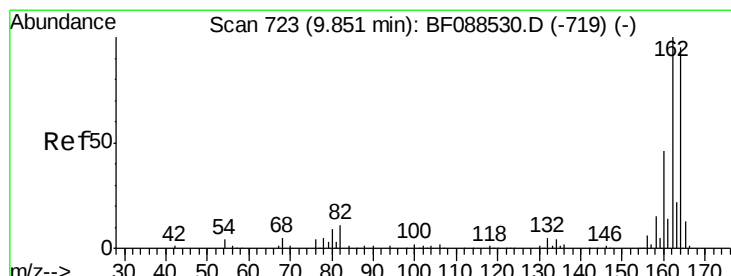
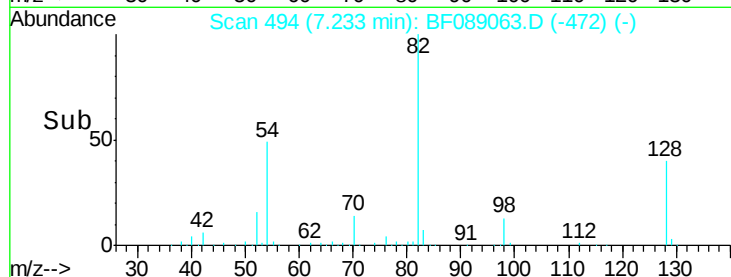
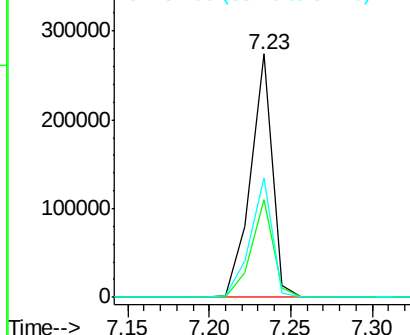
Tot Ion:	82	Resp:	252965
Ion Ratio	Lower	Upper	
82	100		
128	40.1	35.9	53.9
54	48.8	40.9	61.3

Manual Integrations

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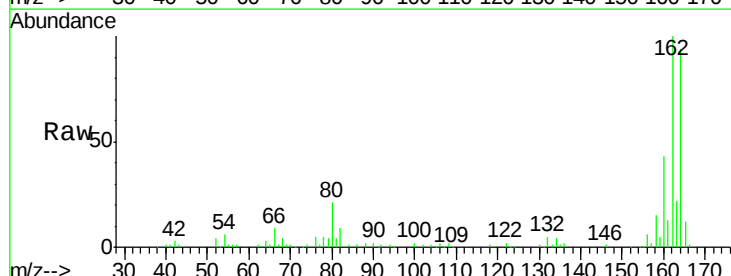


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

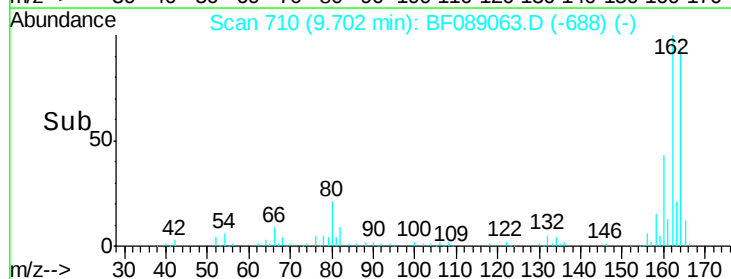
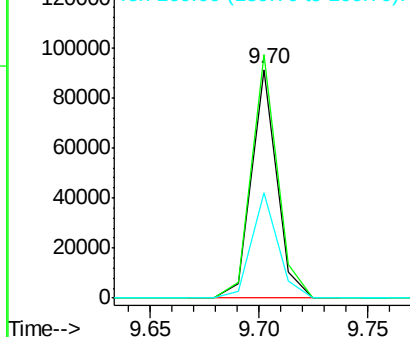


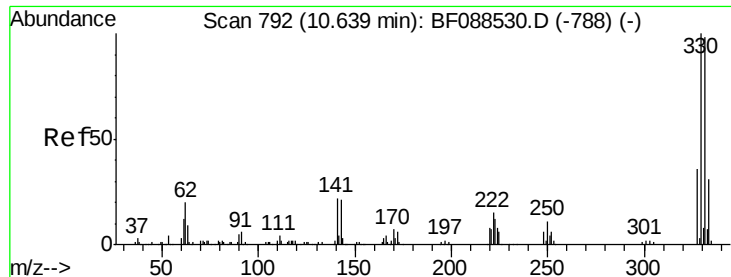
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.05 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Tgt Ion:	164	Resp:	73680
Ion Ratio	Lower	Upper	
164	100		
162	106.6	85.4	128.2
160	46.1	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





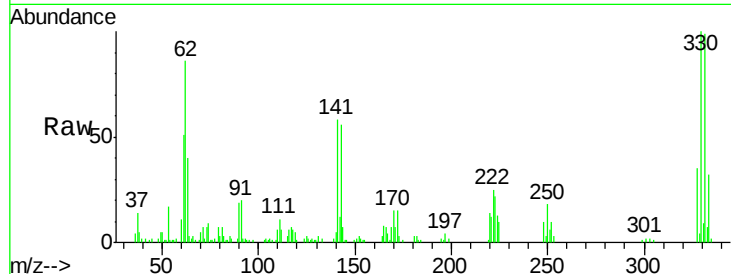
#41
 2,4,6-Tribromophenol
 Concen: 76.69 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.05 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(2-3.5ft)

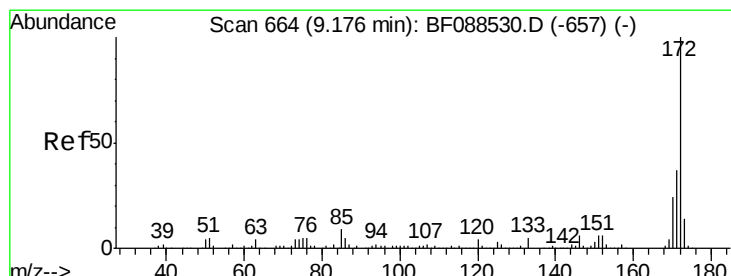
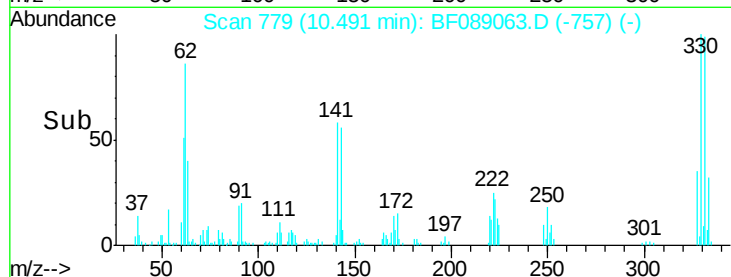
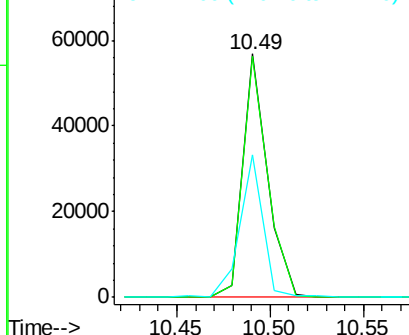
Tot Ion	Ratio	Lower	Upper
330	100		
332	99.3	0.0	0.0#
141	55.9	0.0	0.0#

Manual Integrations

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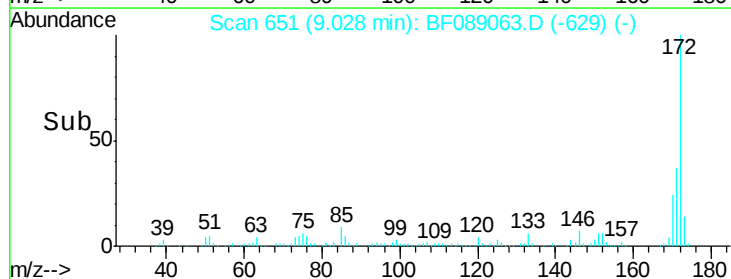
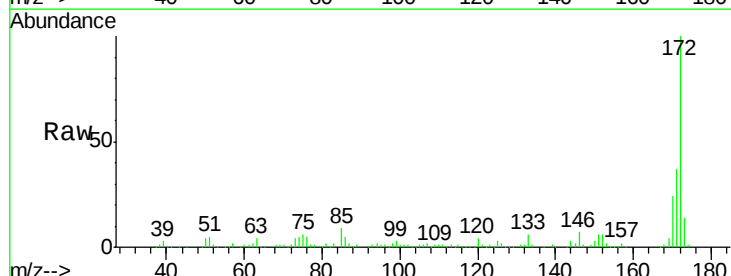
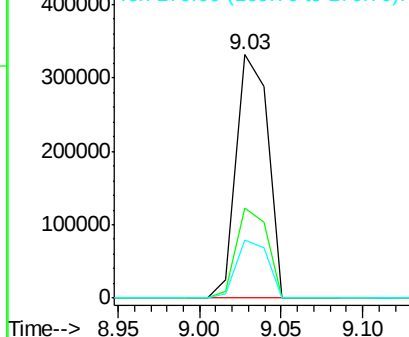
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

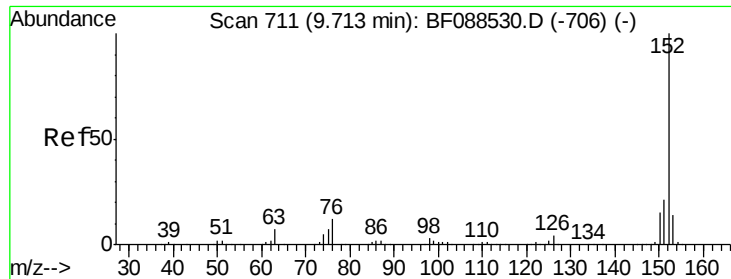


#44
 2-Fluorobiphenyl
 Concen: 95.12 ng
 RT: 9.03 min Scan# 651
 Delta R.T. -0.05 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.6	43.0
170	23.8	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





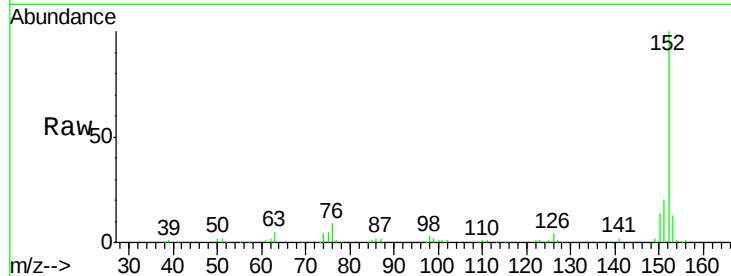
#48
Acenaphthylene
Concen: 12.18 ng
RT: 9.56 min Scan# 698
Delta R.T. -0.05 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(2-3.5ft)

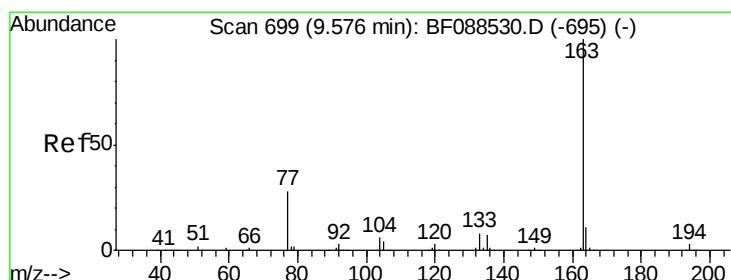
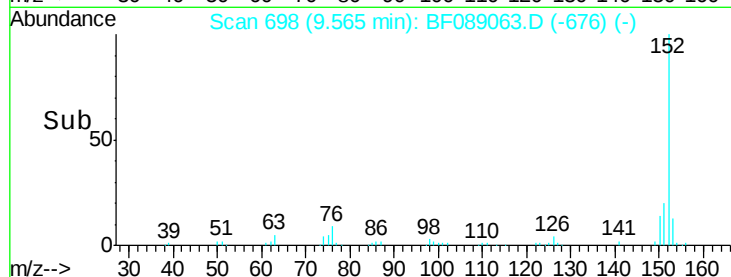
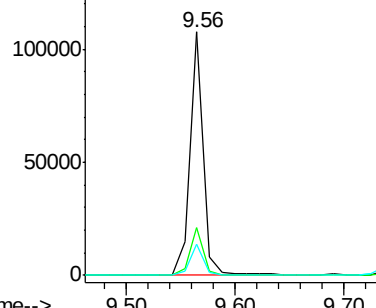
Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.4
153	12.9	11.0	16.6

Manual Integrations

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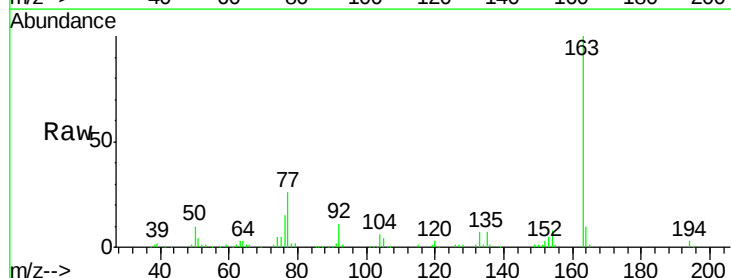


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

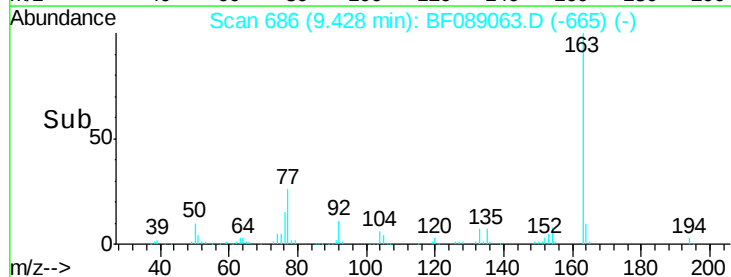
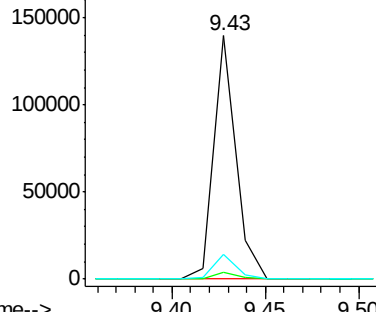


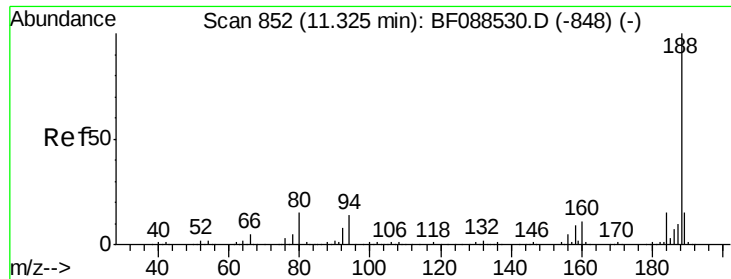
#49
Dimethylphthalate
Concen: 22.00 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.06 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.9	2.8	4.2
164	10.4	8.3	12.5



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





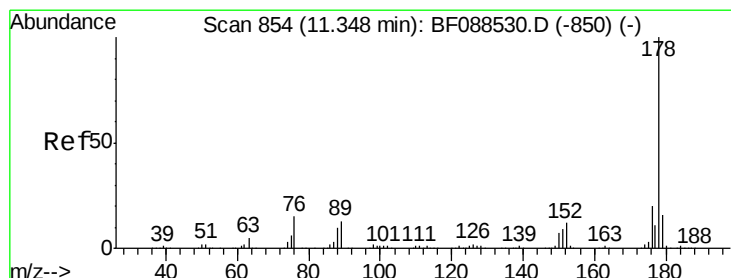
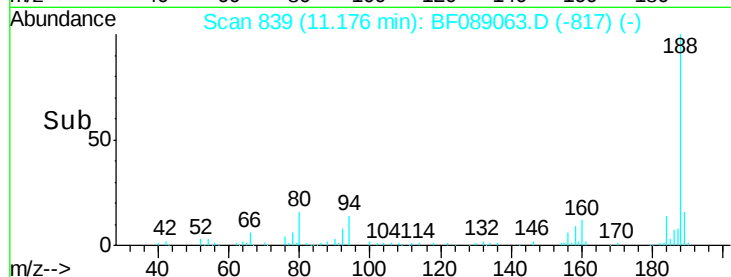
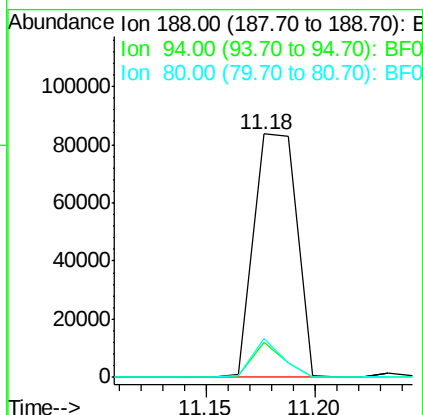
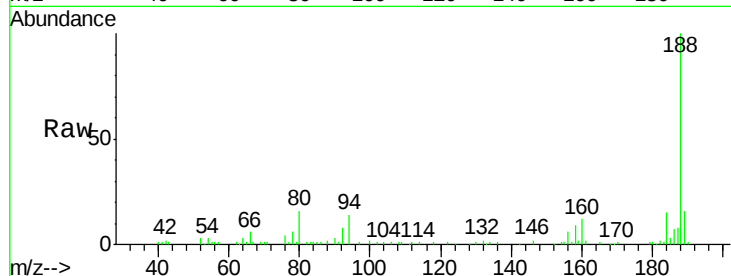
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.18 min Scan# 839
Delta R.T. -0.05 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(2-3.5ft)

Tot Ion	Ratio	Lower	Upper
188	100		
94	14.4	9.0	13.6#
80	16.1	10.0	15.0#

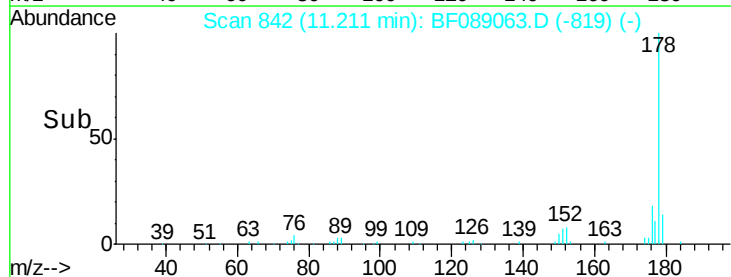
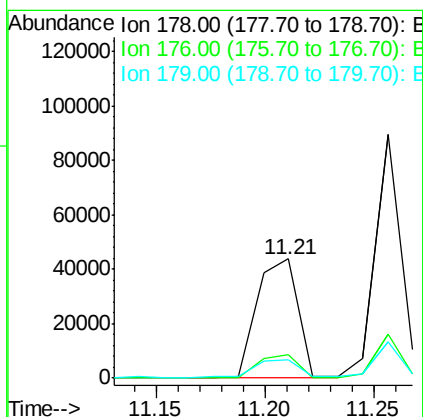
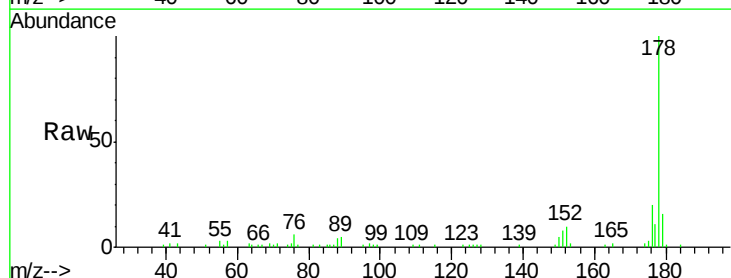
Manual Integrations

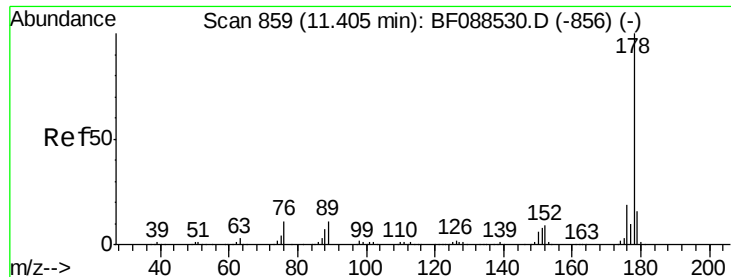
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#70
Phenanthrene
Concen: 9.12 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.6
179	15.8	13.0	19.4





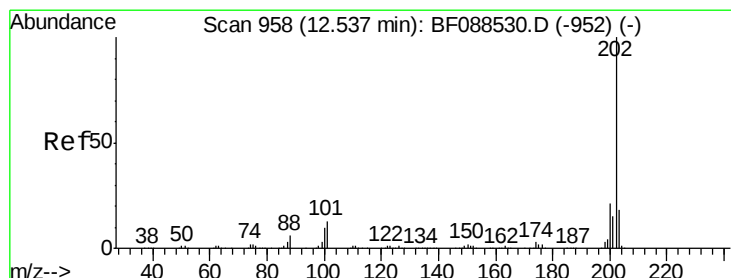
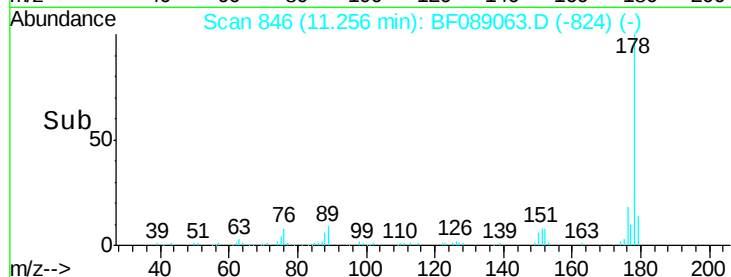
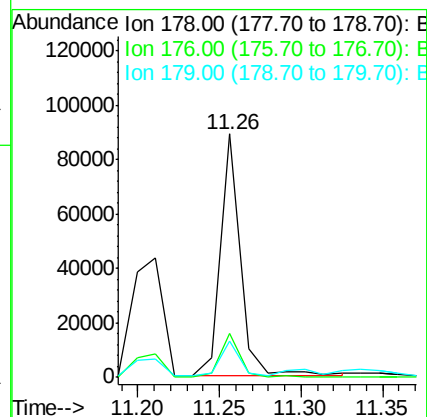
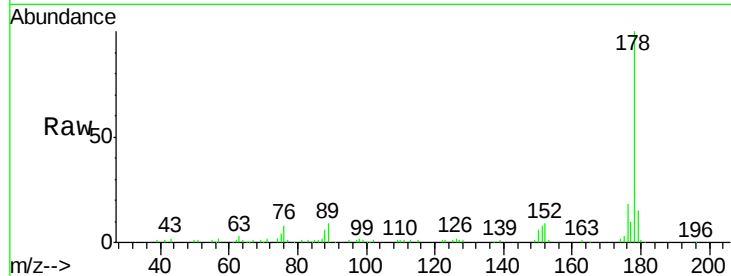
#71
 Anthracene
 Concen: 12.20 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.05 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(2-3.5ft)

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.6	23.4
179	14.9	12.8	19.2

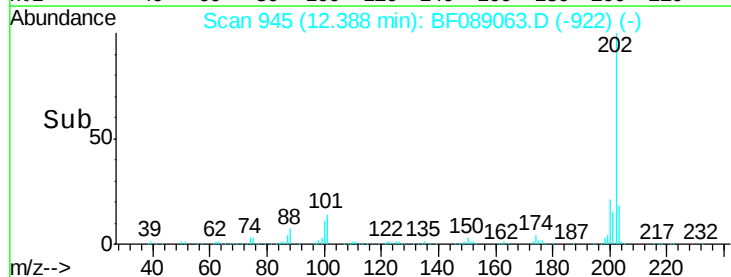
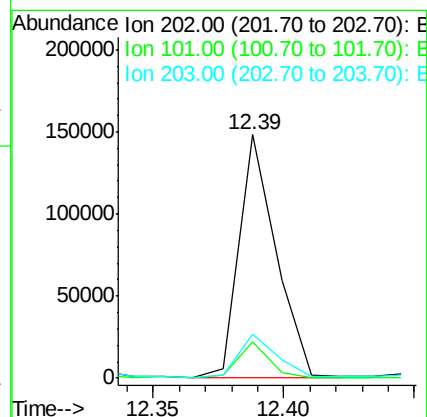
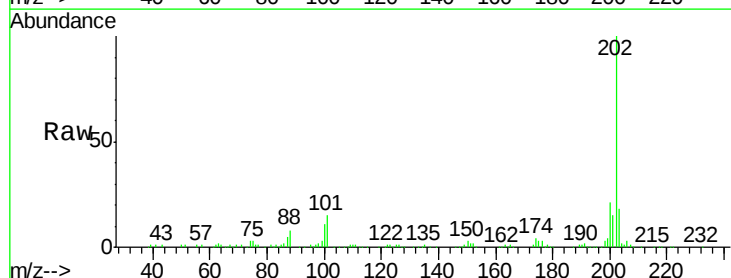
Manual Integrations

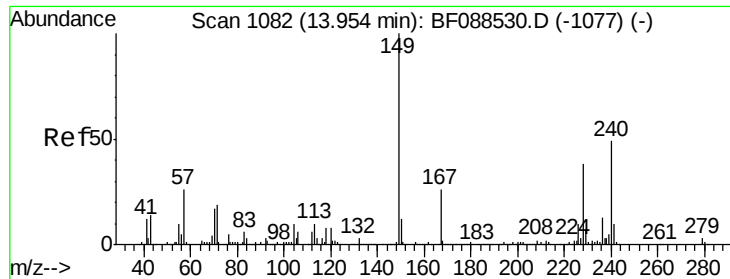
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#74
 Fluoranthene
 Concen: 22.90 ng
 RT: 12.39 min Scan# 945
 Delta R.T. -0.03 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.8	0.0	33.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(2-3.5ft)

Tot Ion:240 Resp: 94895

Ion Ratio Lower Upper

240 100

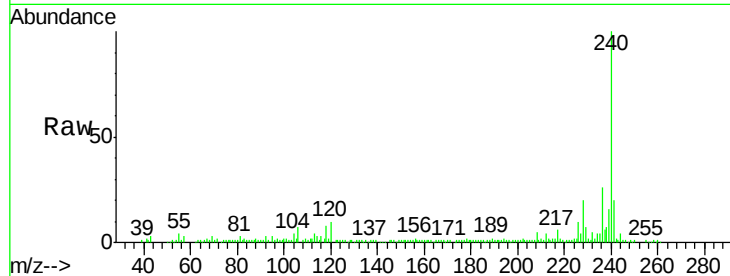
120 9.6 6.8 10.2

236 25.8 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

120000

100000

80000

60000

40000

20000

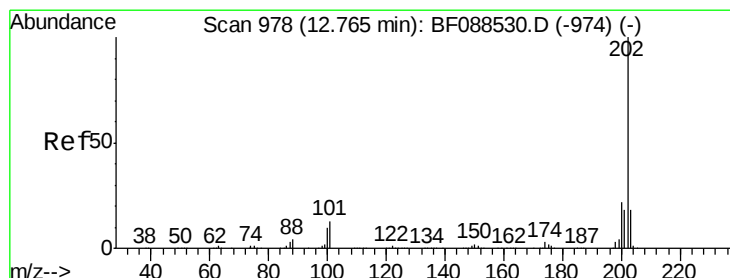
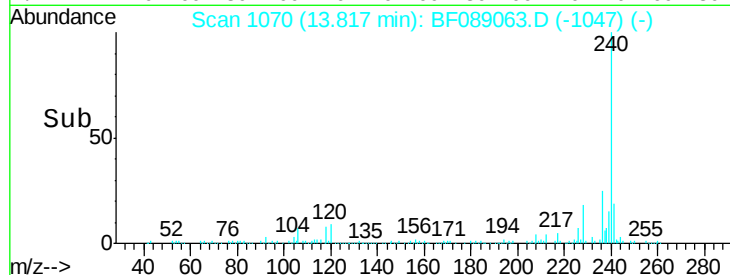
0

13.82

13.80

13.90

Time-->



#77

Pyrene

Concen: 28.25 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

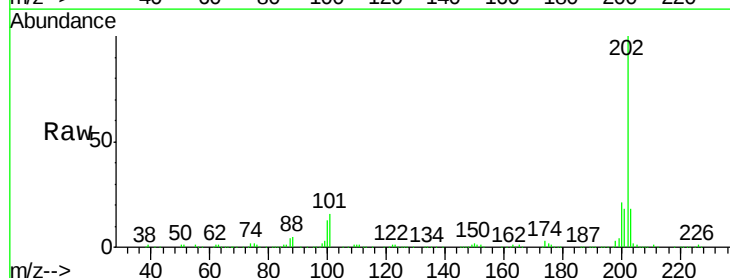
Tgt Ion:202 Resp: 227284

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

203 17.9 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

300000

200000

100000

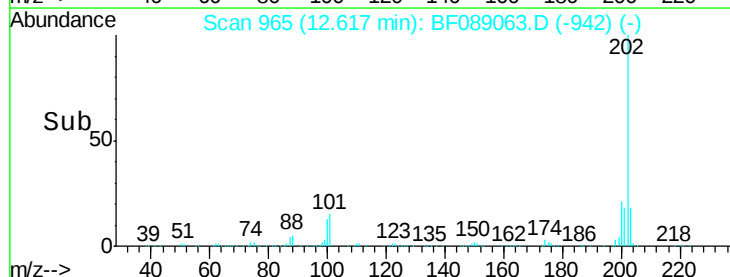
0

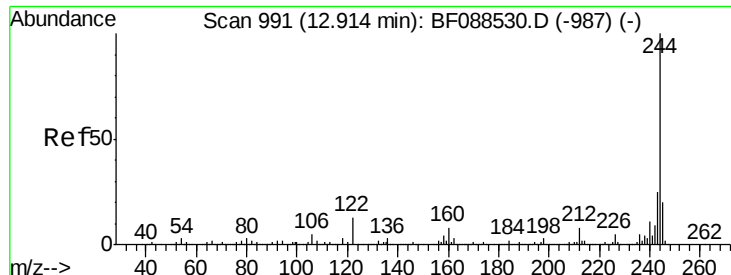
12.62

12.55

12.65

Time-->





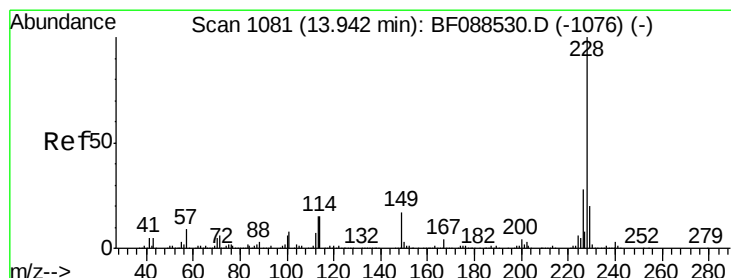
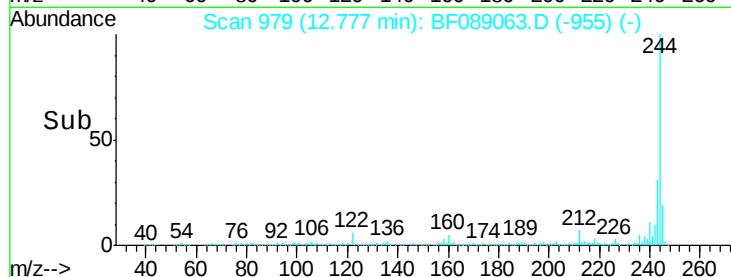
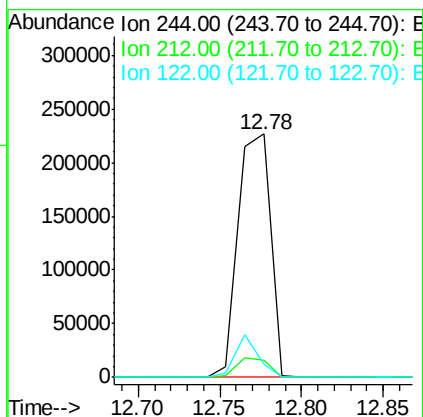
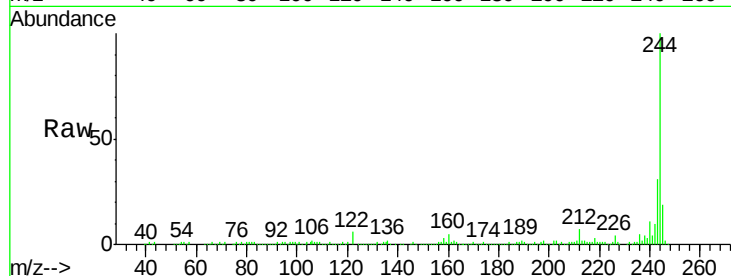
#78
 Terphenyl-d14
 Concen: 73.09 ng
 RT: 12.78 min Scan# 979
 Delta R.T. -0.02 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(2-3.5ft)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	5.6	11.2	16.8#

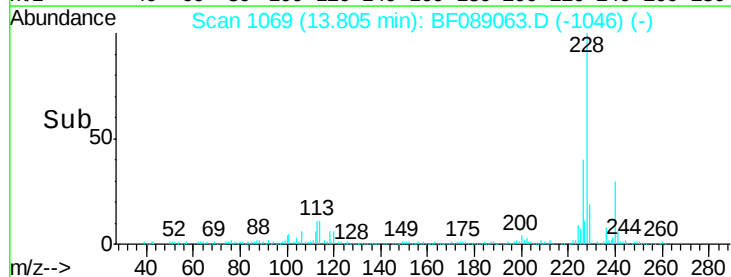
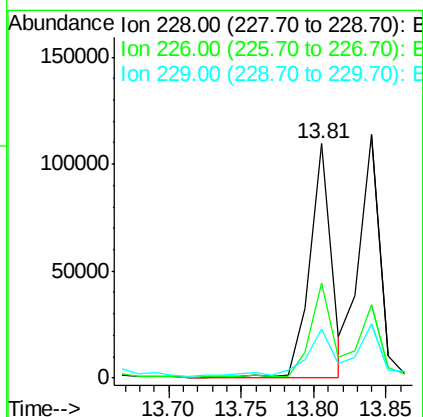
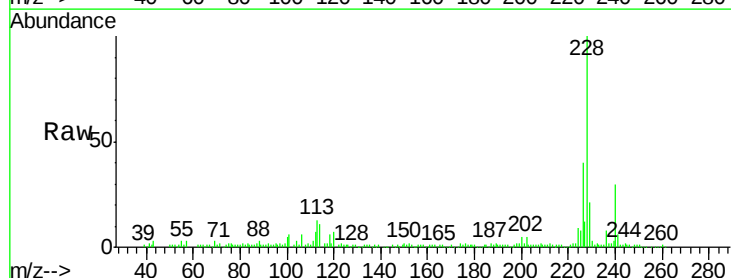
Manual Integrations

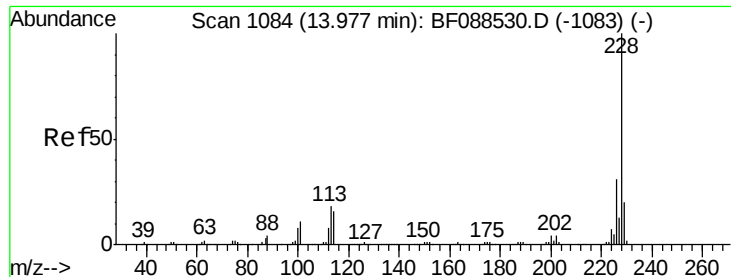
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#80
 Benzo(a)anthracene
 Concen: 18.30 ng
 RT: 13.81 min Scan# 1069
 Delta R.T. -0.03 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	40.5	22.3	33.5#
229	20.9	16.0	24.0





#82

Chrysene

Concen: 18.82 ng/mL

RT: 13.84 min Scan# 1072

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

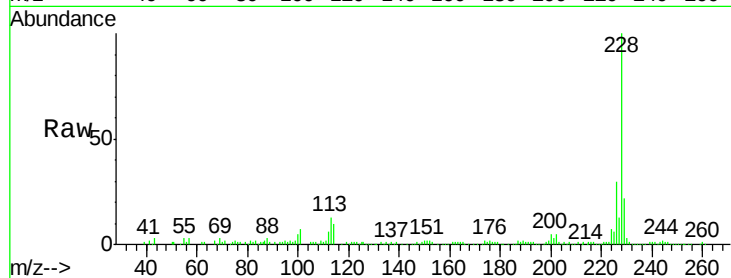
LSS-SB-SB04(2-3.5ft)

Tot Ion:	228	Resp:	113802
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.4	38.2
229	22.0	16.3	24.5

Manual Integrations

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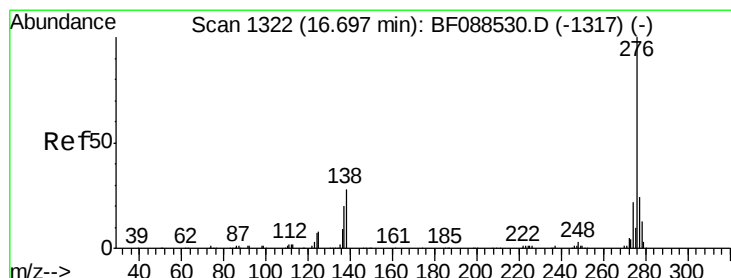
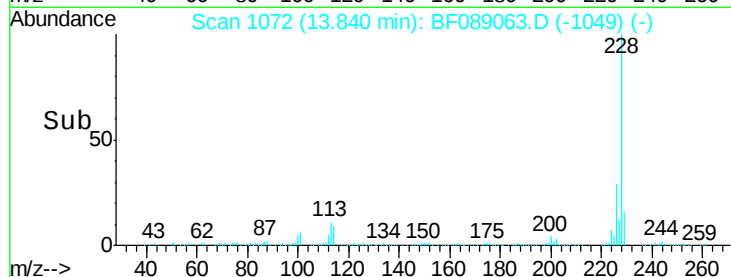
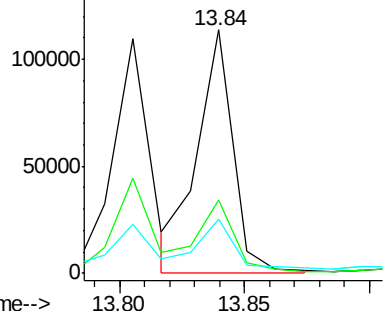
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Abundance Ion 228.00 (227.70 to 228.70): E

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: 9.73 ng/mL

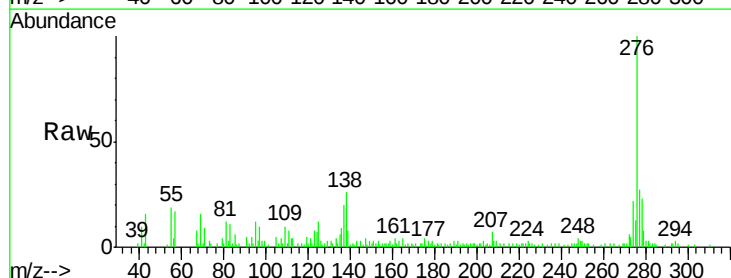
RT: 16.47 min Scan# 1302

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

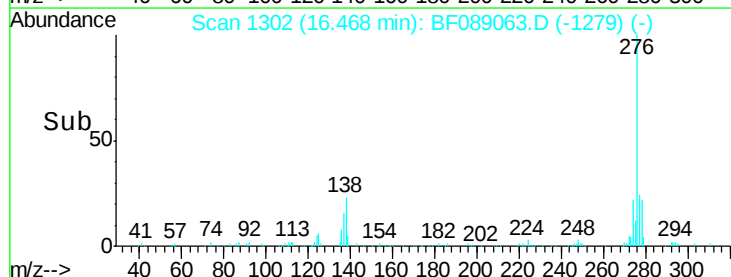
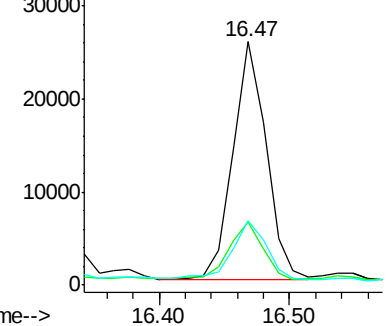
Tgt Ion:	276	Resp:	45251
Ion Ratio	Lower	Upper	
276	100		
138	23.9	0.0	0.0#
277	25.3	0.0	0.0#

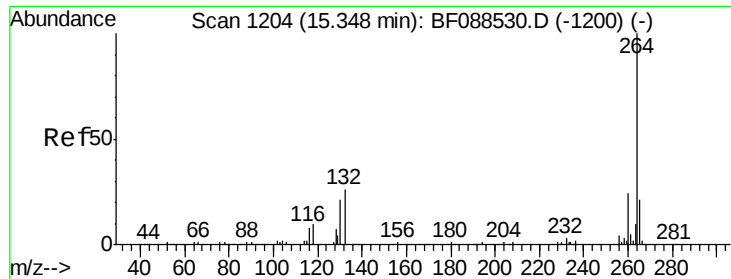


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.19 min Scan# 1190

Delta R.T. -0.02 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

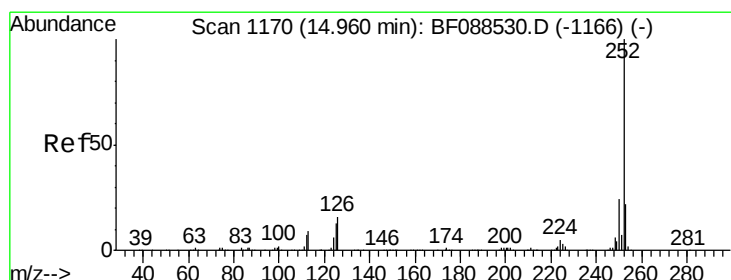
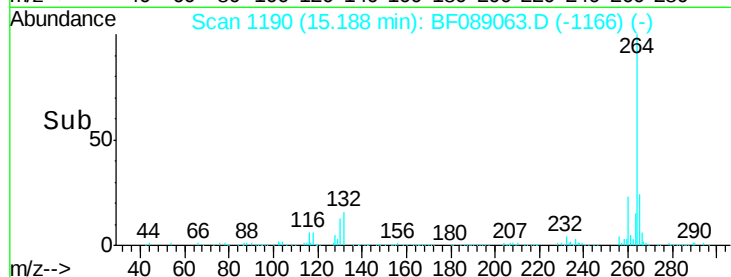
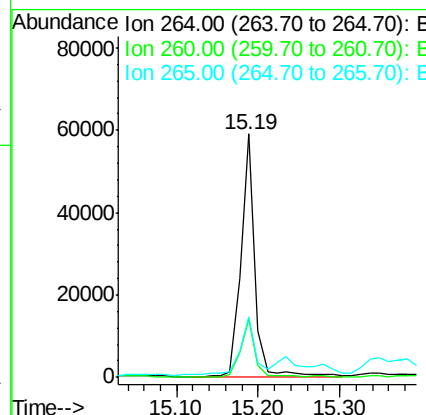
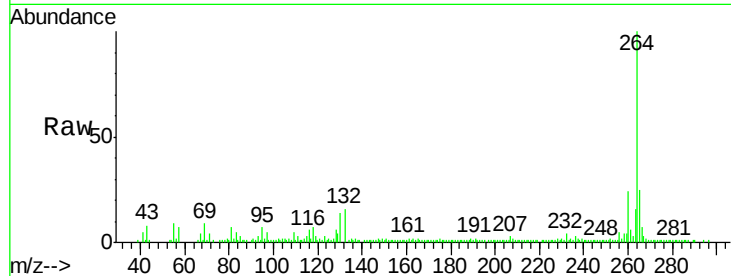
LSS-SB-SB04(2-3.5ft)

Tot Ion:	264	Resp:	71541
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.2	28.8
265	25.1	16.9	25.3

Manual Integrations

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#87

Benzo(b)fluoranthene

Concen: 21.85 ng m

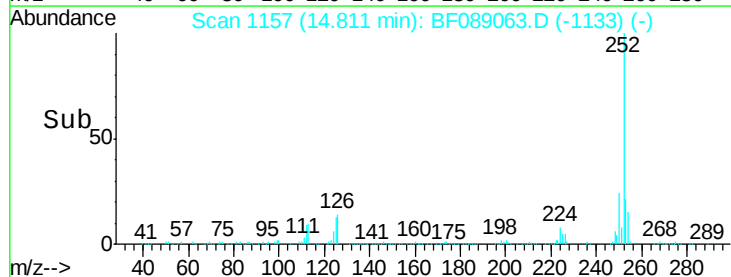
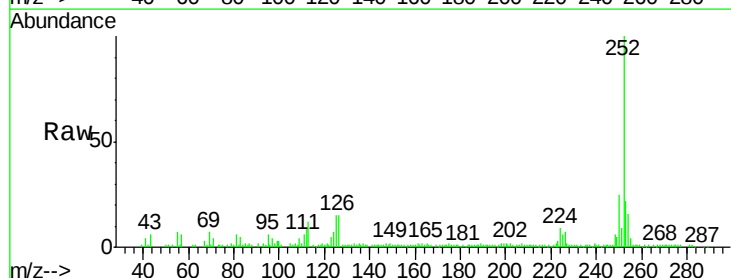
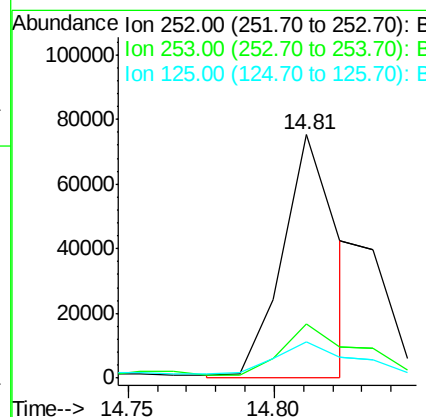
RT: 14.81 min Scan# 1157

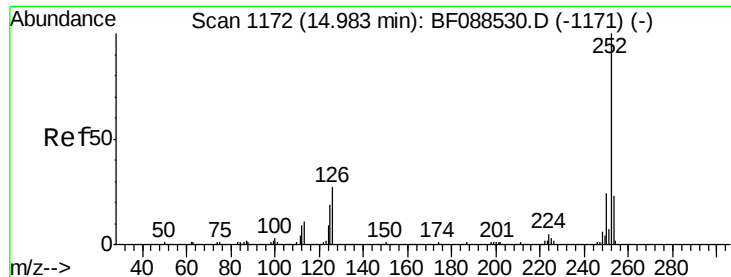
Delta R.T. -0.02 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Tgt Ion:	252	Resp:	98046
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.4	26.2
125	14.7	7.1	10.7#





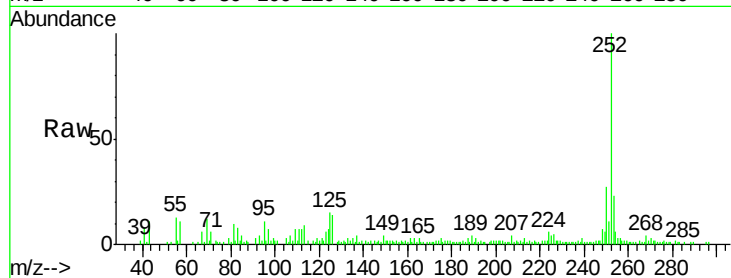
#88
Benzo(k)fluoranthene
Concen: 8.51 ng m
RT: 14.82 min Scan# 1158
Delta R.T. -0.05 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(2-3.5ft)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	15.1	11.2	16.8

Manual Integrations

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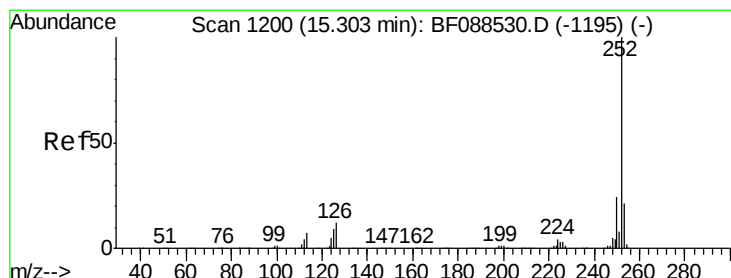
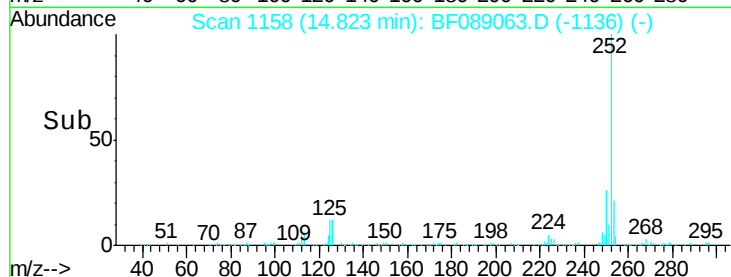
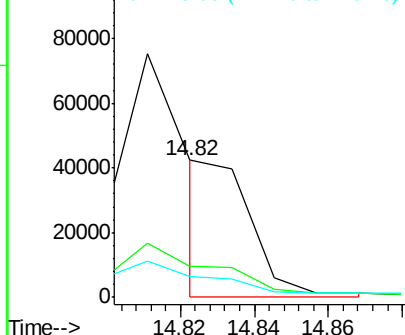


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 20.46 ng
RT: 15.13 min Scan# 1185
Delta R.T. -0.03 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

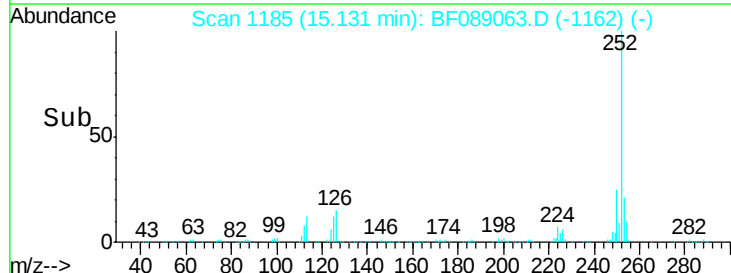
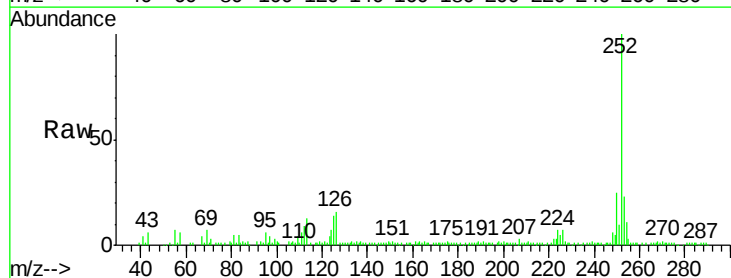
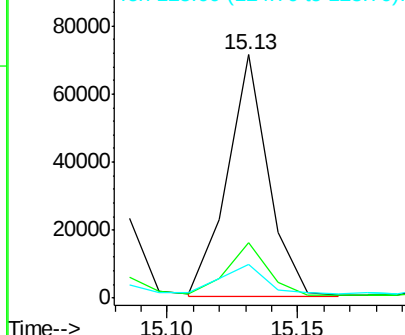
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	14.0	12.5	18.7

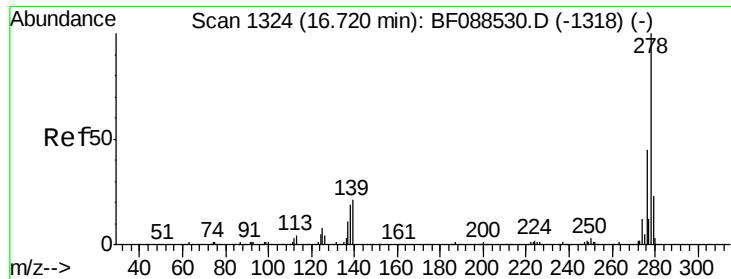
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





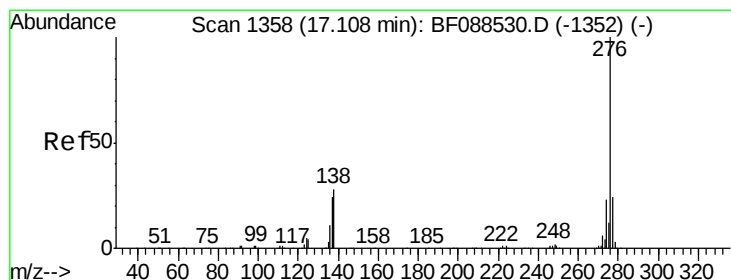
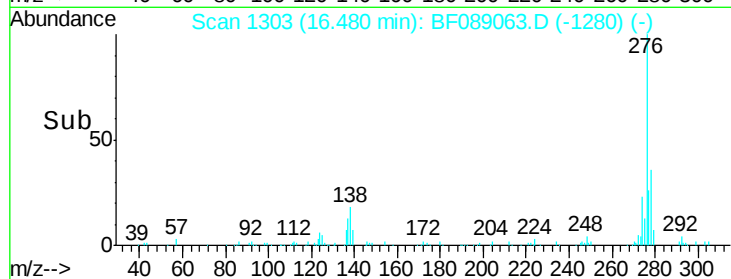
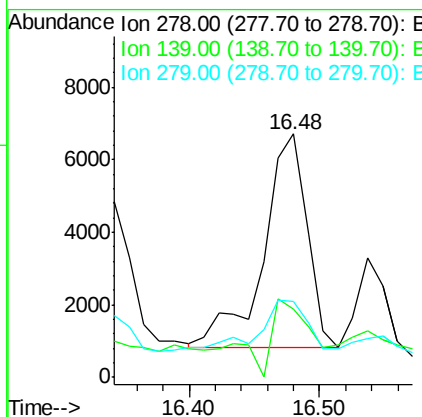
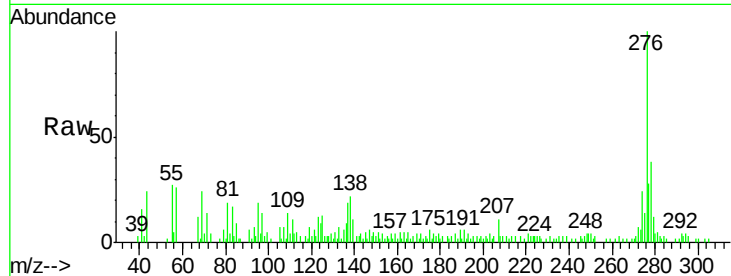
#90
Dibenzo(a,h)anthracene
Concen: 4.34 ng
RT: 16.48 min Scan# 1303
Delta R.T. -0.03 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(2-3.5ft)

Tot Ion	Ratio	Lower	Upper
278	100		
139	27.9	15.7	23.5
279	31.1	19.4	29.2

Manual Integrations

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#91
Benzo(g,h,i)perylene
Concen: 17.15 ng
RT: 16.86 min Scan# 1336
Delta R.T. -0.03 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.9	28.3
138	24.6	21.4	32.2

