

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070716\
 Data File : BF088799.D
 Acq On : 8 Jul 2016 1:03
 Operator : UM/SJ
 Sample : H3889-02 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-2

Manual Integrations

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 SOHIL
 7/8/2016 7:04:18 AM

Quant Time: Jul 08 03:48:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 01:56:42 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	90788m	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	336004	20.00	ng	-0.01
38) Acenaphthene-d10	9.78	164	150592	20.00	ng	0.00
63) Phenanthrene-d10	11.26	188	244989	20.00	ng	0.00
75) Chrysene-d12	13.90	240	168511	20.00	ng	0.01
86) Perylene-d12	15.29	264	169643	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	116774	19.28	ng	0.00
7) Phenol-d6	6.38	99	154094	19.69	ng	-0.01
23) Nitrobenzene-d5	7.30	82	97641	15.23	ng	-0.01
41) 2,4,6-Tribromophenol	10.56	330	25816	18.46	ng	-0.01
44) 2-Fluorobiphenyl	9.11	172	158983	16.68	ng	0.00
78) Terphenyl-d14	12.85	244	100720	13.31	ng	0.00
Target Compounds						Qvalue
15) Benzyl Alcohol	6.88	79	47865	8.31	ng	90
49) Dimethylphthalate	9.50	163	24975	2.33	ng	99
51) Acenaphthene	9.80	154	19802	2.07	ng	98
57) Fluorene	10.32	166	19812	2.06	ng	95
70) Phenanthrene	11.28	178	284159	21.22	ng	99
71) Anthracene	11.32	178	86162	6.47	ng	98
72) Carbazole	11.48	167	33546	2.68	ng	100
73) Di-n-butylphthalate	11.83	149	288237	19.77	ng	99
74) Fluoranthene	12.48	202	1204649	88.73	ng	93
77) Pyrene	12.70	202	1168167m	81.76	ng	
80) Benzo(a)anthracene	13.89	228	1073684	98.95	ng	96
82) Chrysene	13.93	228	817541	76.15	ng	97
83) Bis(2-ethylhexyl)phthalate	13.89	149	52736	7.25	ng	# 94
85) Indeno(1,2,3-cd)pyrene	16.62	276	383077	46.38	ng	# 100
87) Benzo(b)fluoranthene	14.91	252	1225662m	115.17	ng	
88) Benzo(k)fluoranthene	14.93	252	232413m	25.09	ng	
89) Benzo(a)pyrene	15.25	252	737067	81.80	ng	# 93
90) Dibenzo(a,h)anthracene	16.63	278	143316	19.05	ng	92
91) Benzo(a,h,i)perylene	17.02	276	361091	46.38	ng	97

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

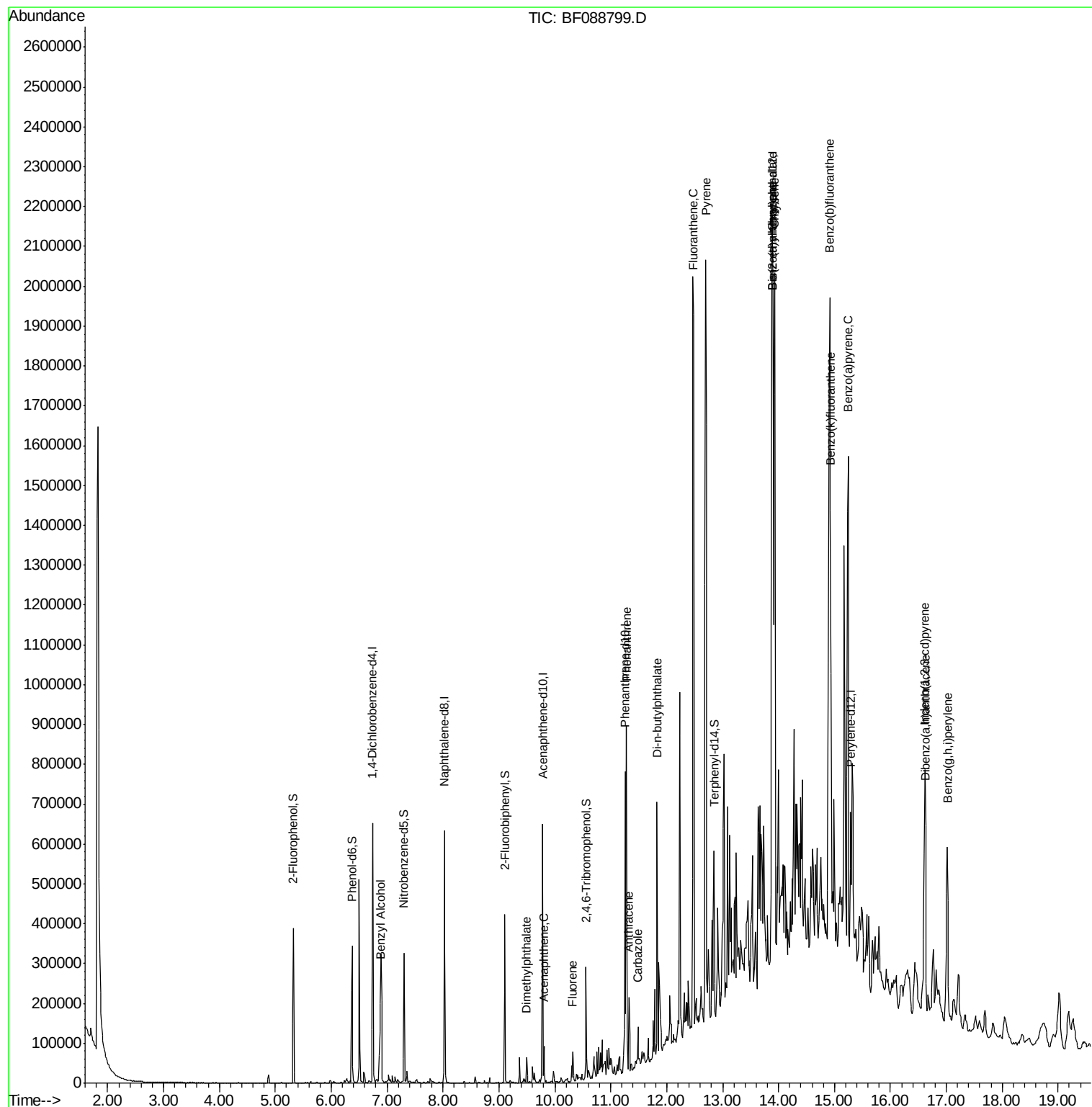
Data Path : Z:\HPCHEM1\BNA F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
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ALS Vial : 29 Sample Multiplier: 1

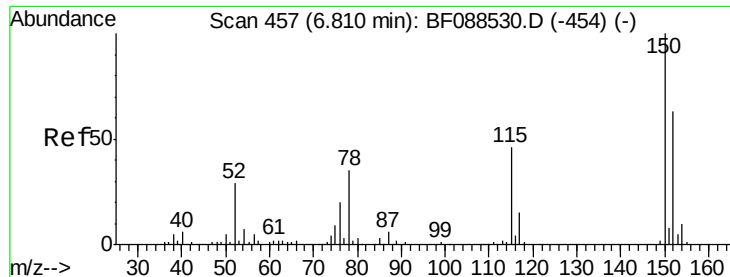
Instrument :
BNA_F
ClientSampled :
SS-2

Manual Integrations

Quant Time: Jul 08 03:48:08 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

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#1

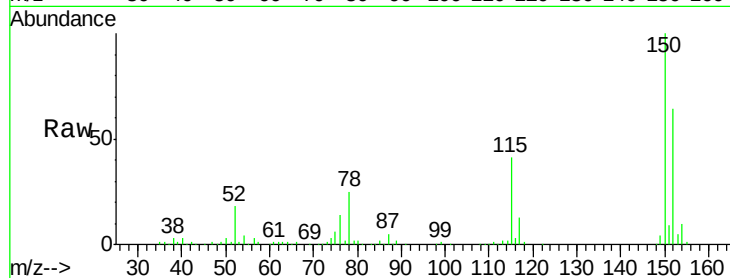
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/ml
RT: 6.74 min Scan# 451
Delta R.T. 0.00 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

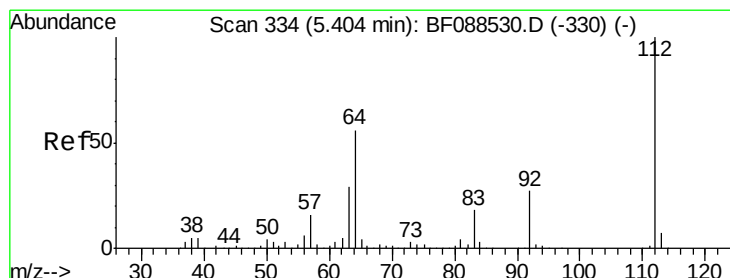
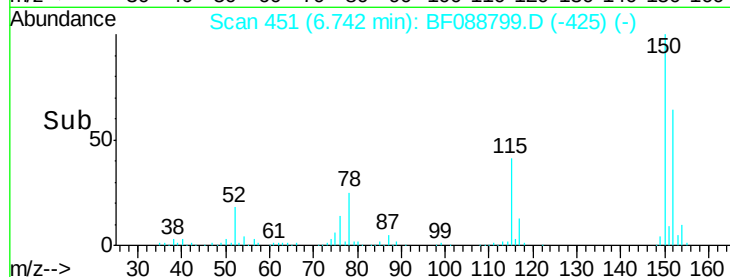
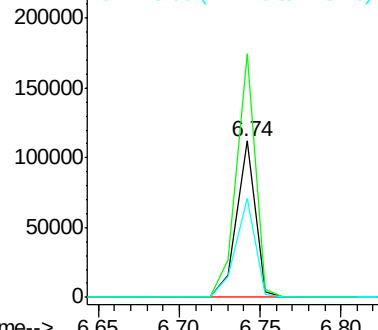
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	123.8	185.6
115	63.2	39.6	59.4

Manual Integrations

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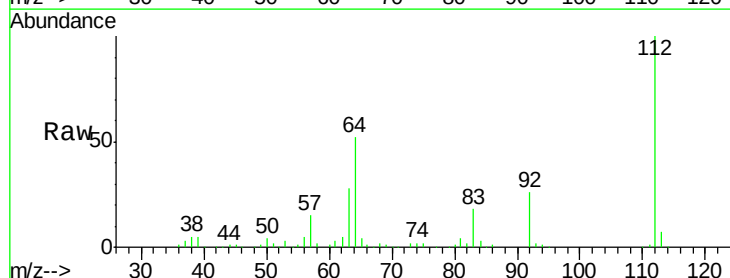
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



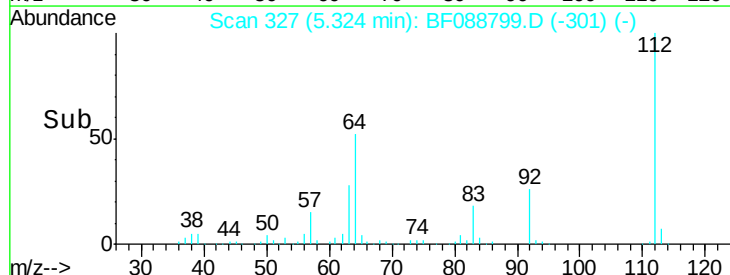
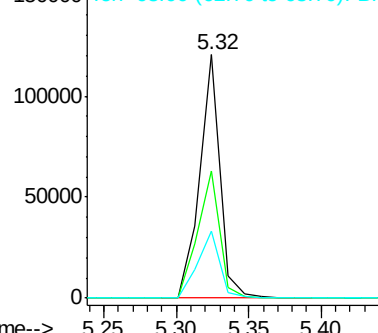
#5

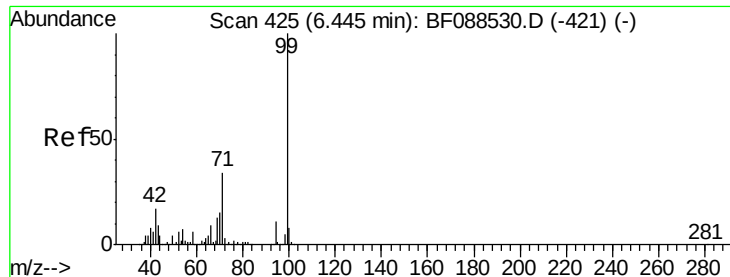
2-Fluorophenol
Concen: 19.28 ng
RT: 5.32 min Scan# 327
Delta R.T. 0.00 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.2	42.2	63.2
63	27.6	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: 19.69 ng

RT: 6.38 min Scan# 419

Delta R.T. -0.01 min

Lab File: BF088799.D

Acq: 8 Jul 2016 1:03

Instrument :

BNA_F

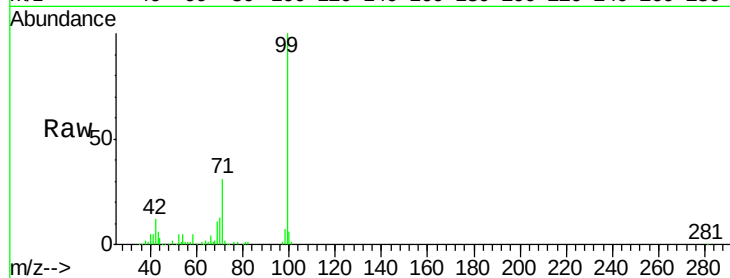
ClientSampleId :

SS-2

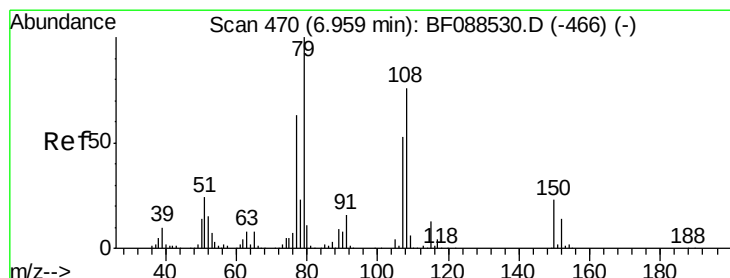
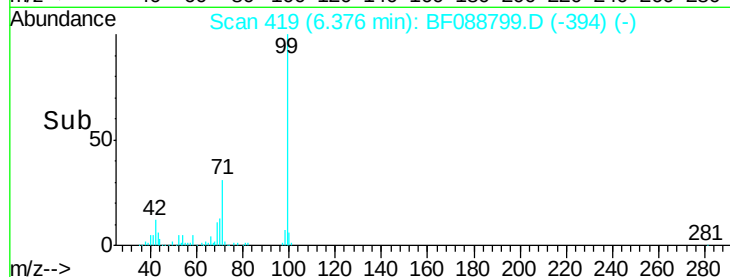
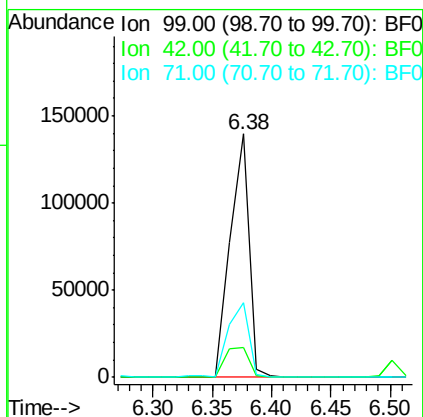
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Tot Ion:	99	Resp:	154094
Ion	Ratio	Lower	Upper
99	100		
42	12.3	12.2	18.2
71	30.5	23.4	35.0



#15

Benzyl Alcohol

Concen: 8.31 ng

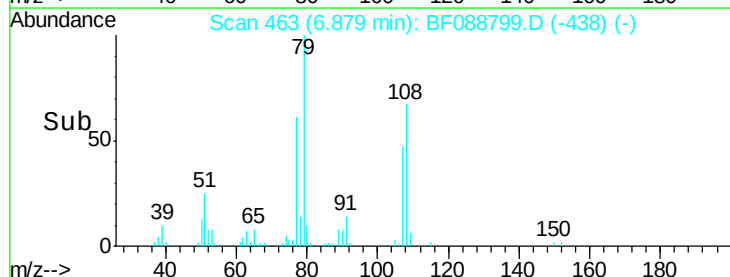
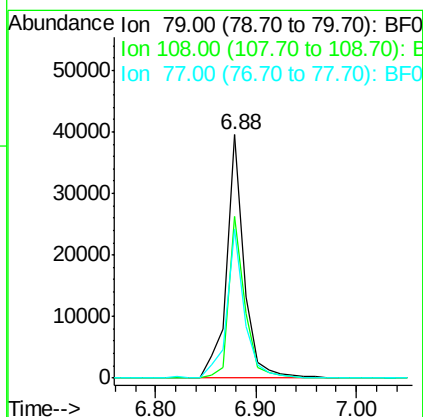
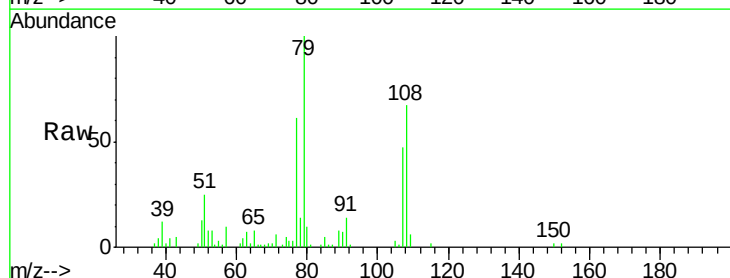
RT: 6.88 min Scan# 463

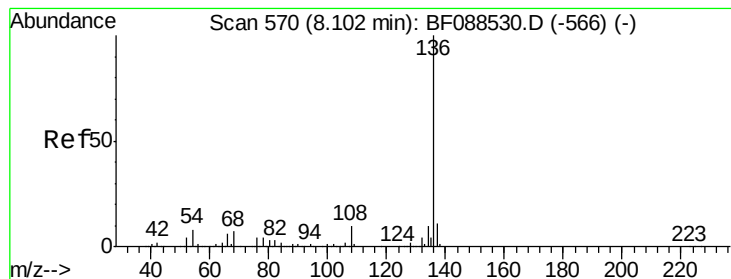
Delta R.T. -0.01 min

Lab File: BF088799.D

Acq: 8 Jul 2016 1:03

Tgt Ion:	79	Resp:	47865
Ion	Ratio	Lower	Upper
79	100		
108	66.6	65.0	97.6
77	61.1	50.3	75.5





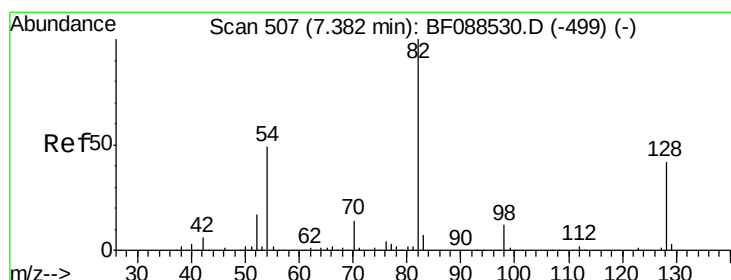
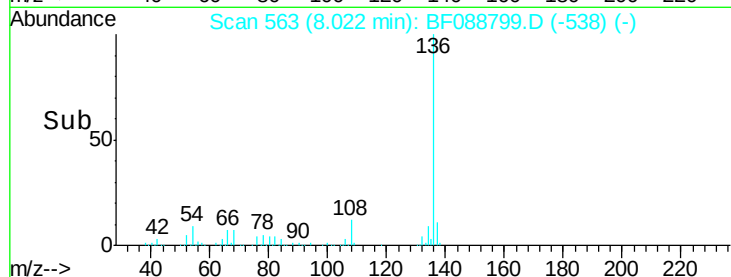
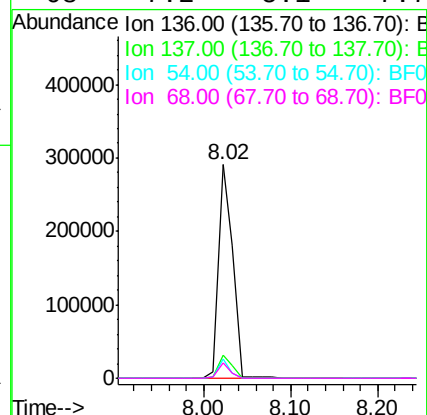
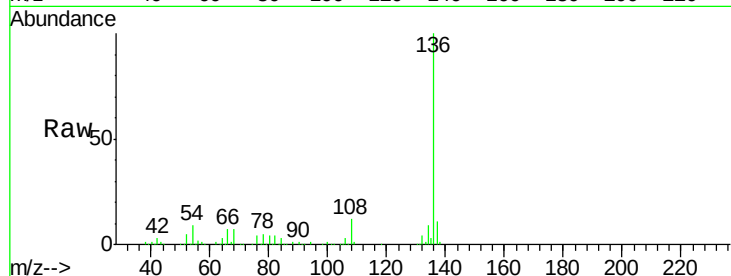
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.02 min Scan# 563
Delta R.T. -0.01 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		336004		
137	10.9	9.1	13.7		
54	9.2	6.6	10.0		
68	7.2	5.1	7.7		

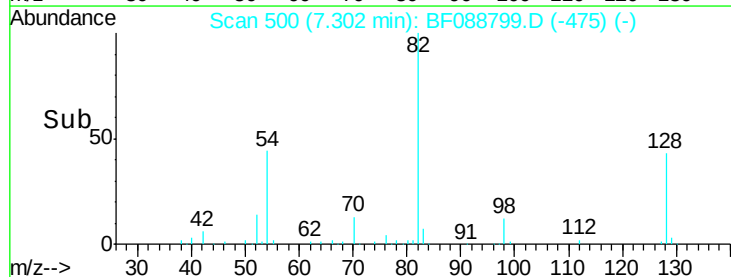
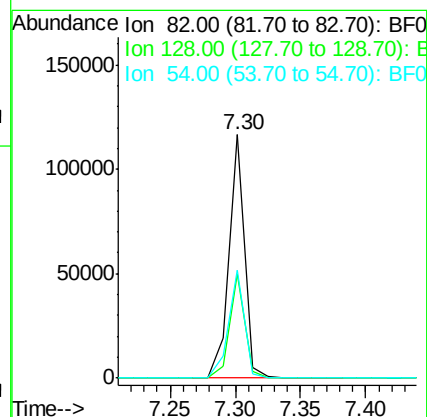
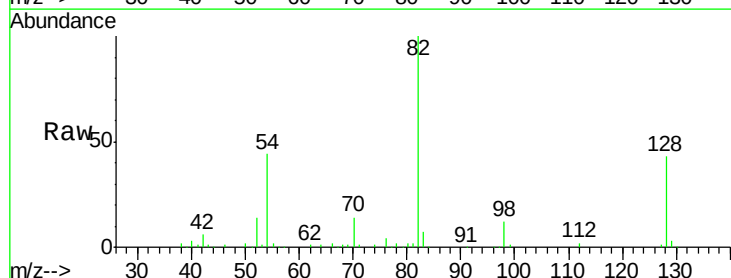
Manual Integrations

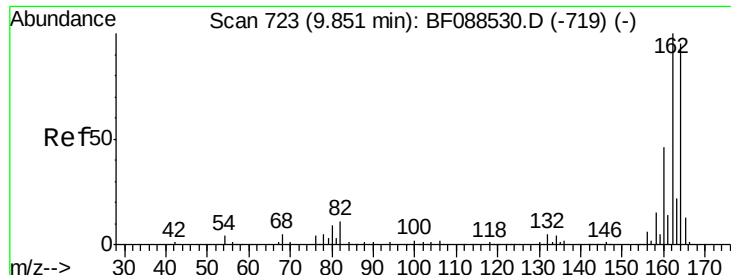
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#23
Nitrobenzene-d5
Concen: 15.23 ng
RT: 7.30 min Scan# 500
Delta R.T. -0.01 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		97641		
128	42.5	35.9	53.9		
54	44.1	40.9	61.3		





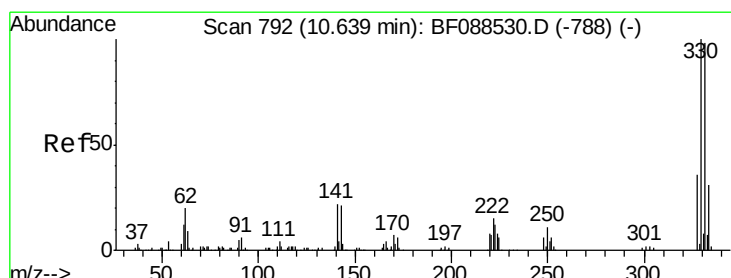
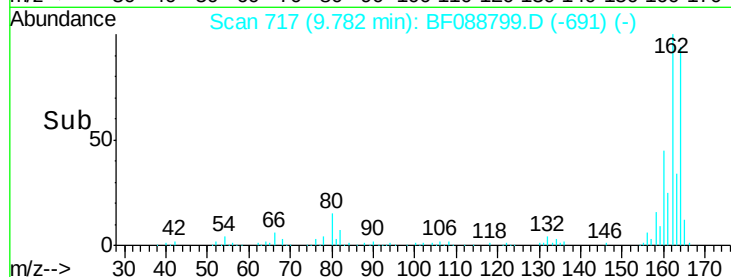
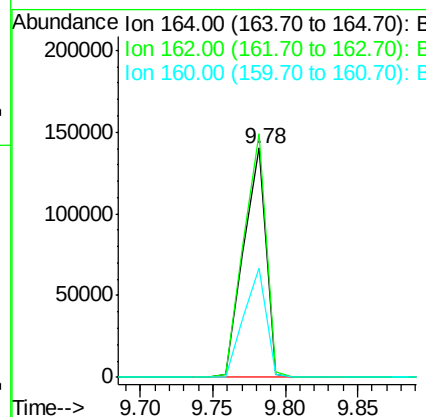
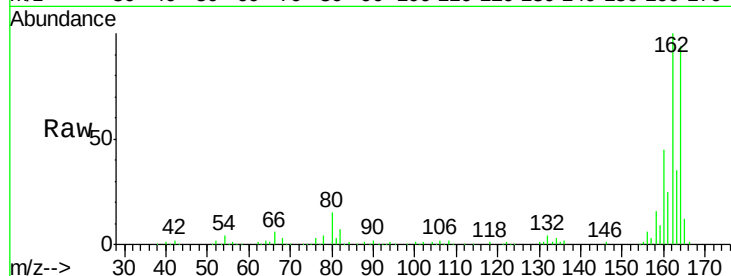
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.78 min Scan# 717
Delta R.T. 0.00 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

Tot Ion	Ratio	Lower	Upper
164	100		
162	106.3	85.4	128.2
160	47.8	39.5	59.3

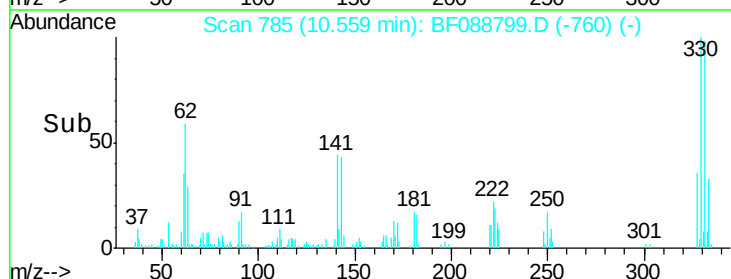
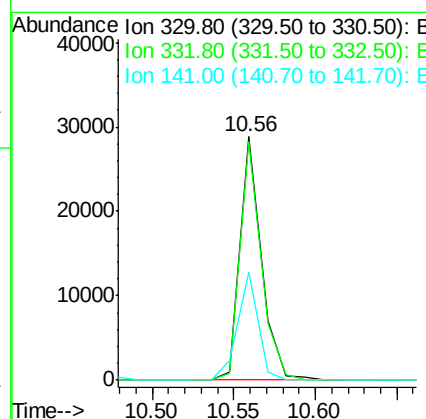
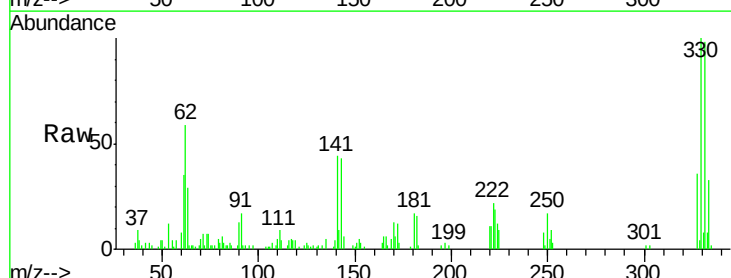
Manual Integrations

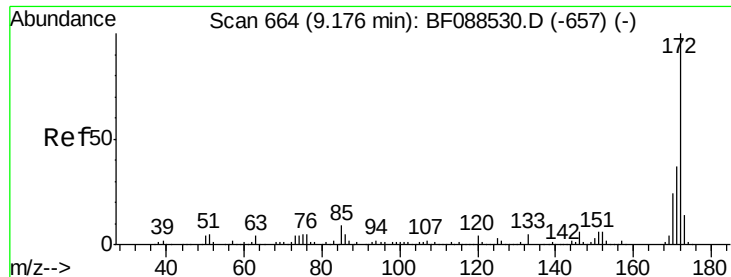
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#41
2,4,6-Tribromophenol
Concen: 18.46 ng
RT: 10.56 min Scan# 785
Delta R.T. -0.01 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.2	0.0	0.0#
141	42.4	0.0	0.0#





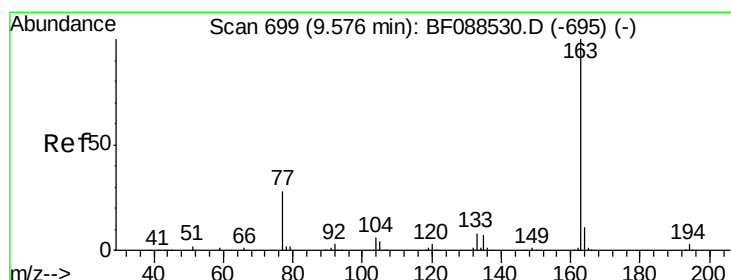
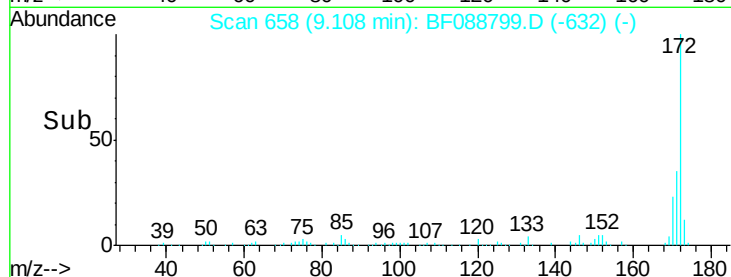
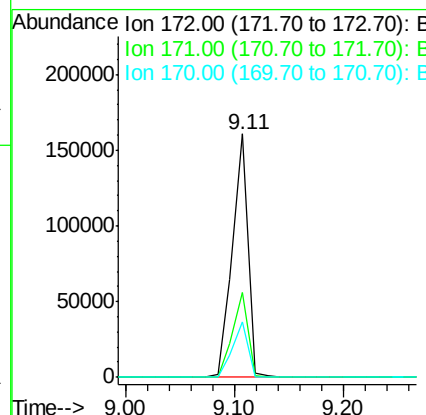
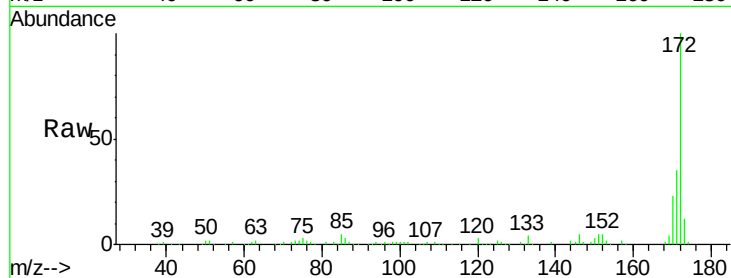
#44
2-Fluorobiphenyl
Concen: 16.68 ng
RT: 9.11 min Scan# 658
Delta R.T. 0.00 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	43.0
170	22.9	19.2	28.8

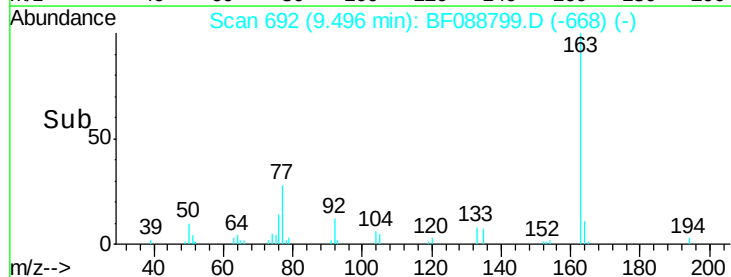
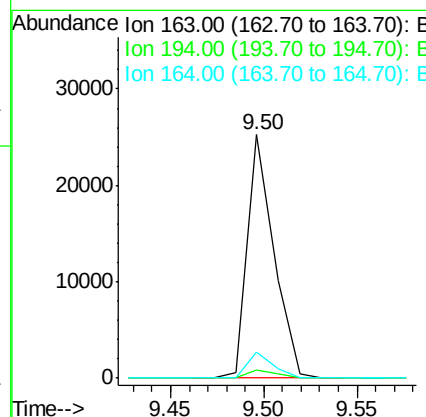
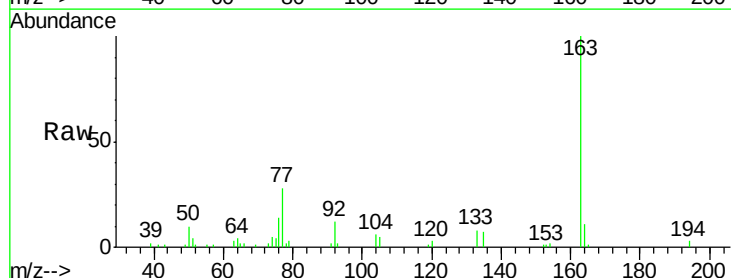
Manual Integrations

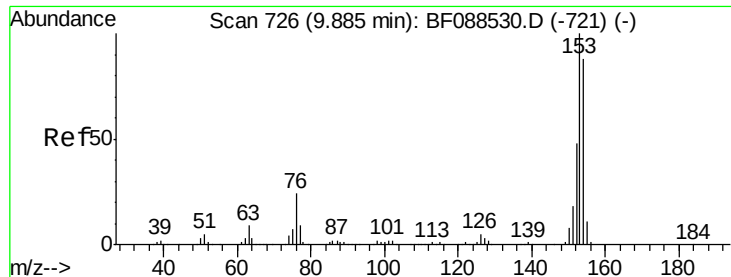
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#49
Dimethylphthalate
Concen: 2.33 ng
RT: 9.50 min Scan# 692
Delta R.T. -0.02 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.8	4.2
164	10.6	8.3	12.5





#51

Acenaphthene

Concen: 2.07 ng

RT: 9.80 min Scan# 719

Delta R.T. -0.01 min

Lab File: BF088799.D

Acq: 8 Jul 2016 1:03

Instrument :

BNA_F

ClientSampleId :

SS-2

Tot Ion:154 Resp: 19802

Ion Ratio Lower Upper

154 100

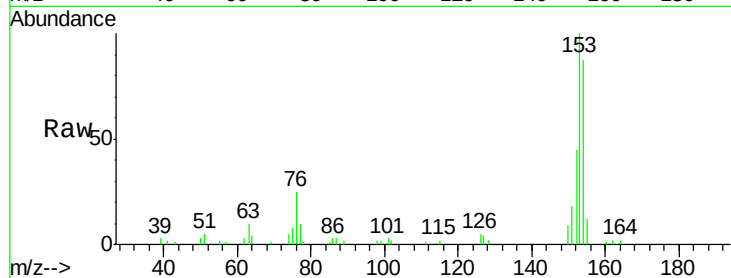
153 114.9 89.5 134.3

152 52.1 42.7 64.1

Manual Integrations

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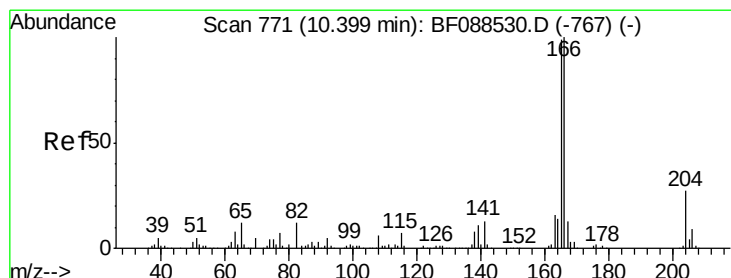
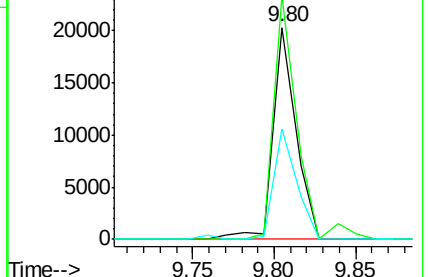
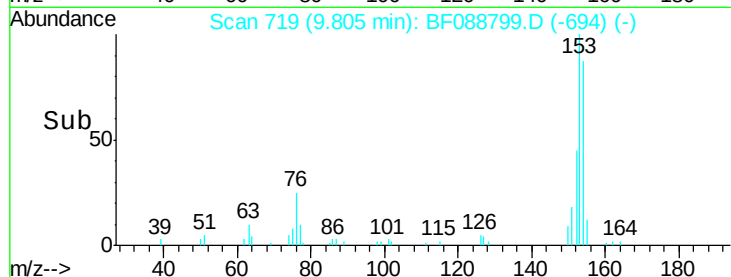
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 2.06 ng

RT: 10.32 min Scan# 764

Delta R.T. -0.01 min

Lab File: BF088799.D

Acq: 8 Jul 2016 1:03

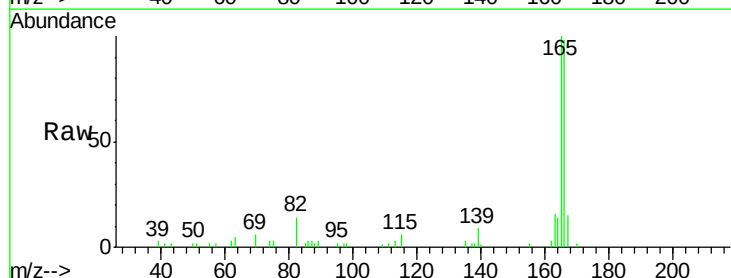
Tgt Ion:166 Resp: 19812

Ion Ratio Lower Upper

166 100

165 102.4 77.8 116.8

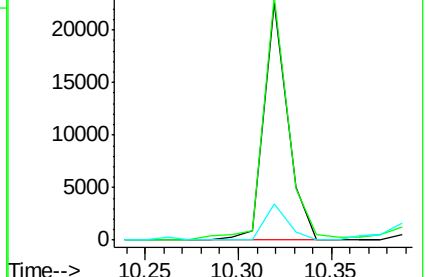
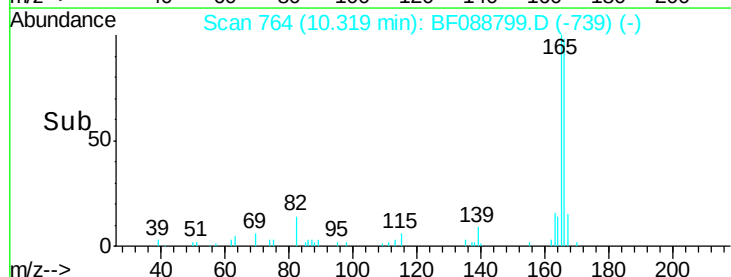
167 15.1 11.2 16.8

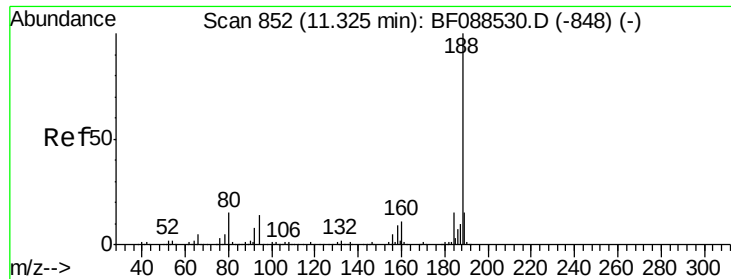


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





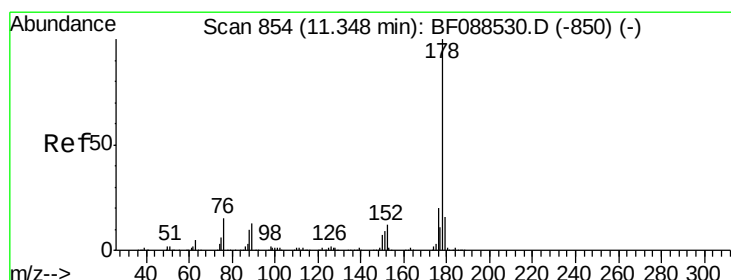
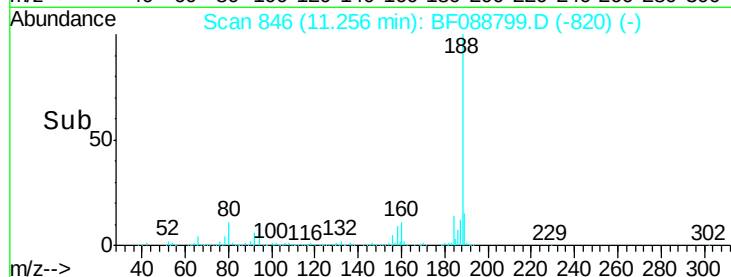
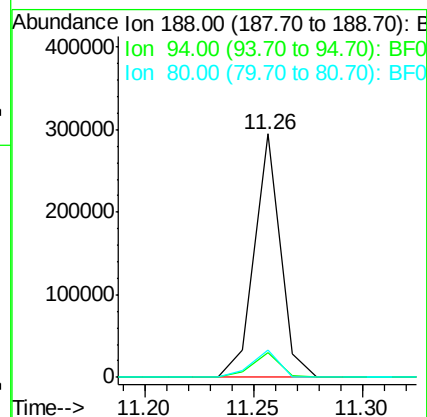
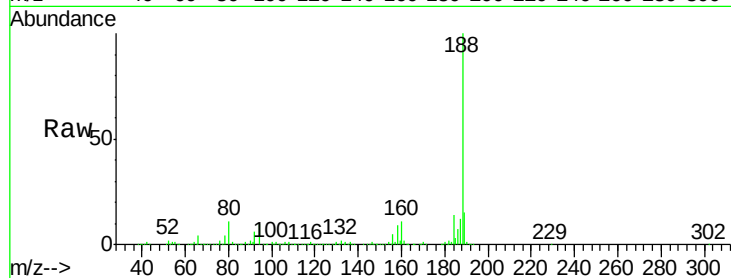
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.26 min Scan# 846
Delta R.T. 0.00 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

Tot Ion:188	Resp: 244989
Ion Ratio	Lower Upper
188 100	
94 10.0	9.0 13.6
80 11.4	10.0 15.0

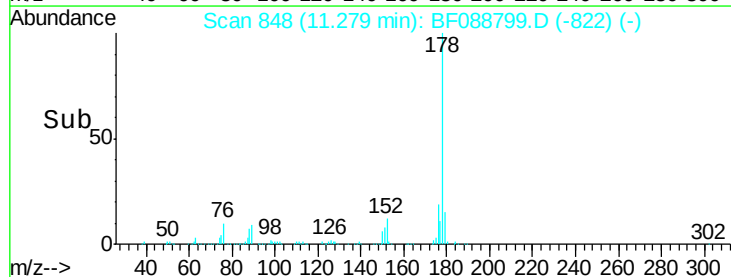
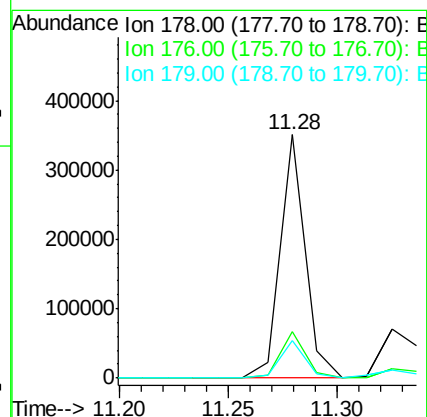
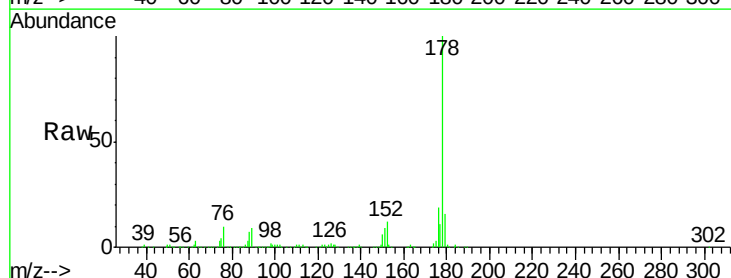
Manual Integrations

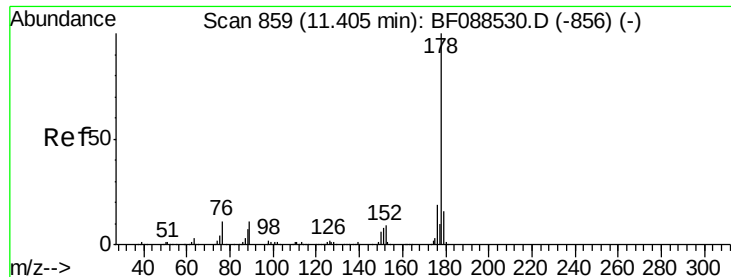
APPROVED
SOHIL
7/8/2016 7:04:18 AM



#70
Phenanthrene
Concen: 21.22 ng
RT: 11.28 min Scan# 848
Delta R.T. 0.00 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion:178	Resp: 284159
Ion Ratio	Lower Upper
178 100	
176 19.0	15.8 23.6
179 15.6	13.0 19.4





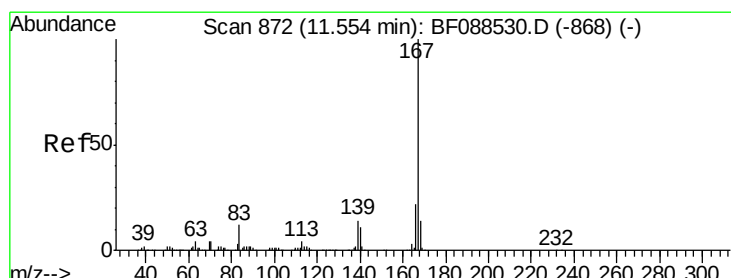
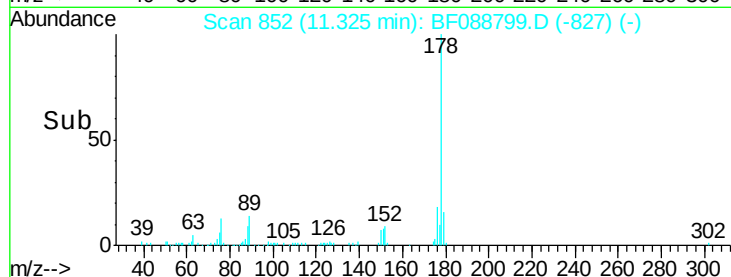
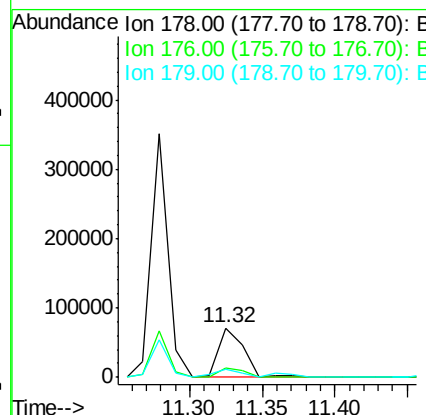
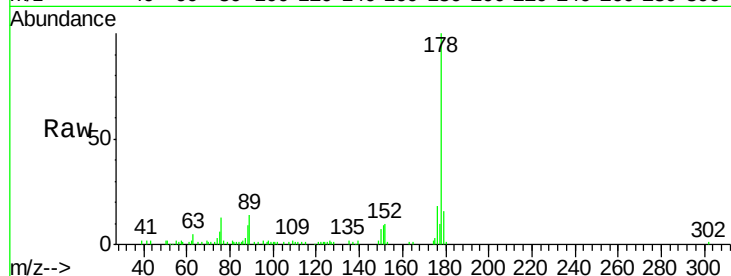
#71
 Anthracene
 Concen: 6.47 ng
 RT: 11.32 min Scan# 852
 Delta R.T. -0.01 min
 Lab File: BF088799.D
 Acq: 8 Jul 2016 1:03

Instrument :
 BNA_F
 ClientSampleId :
 SS-2

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.6	23.4
179	16.3	12.8	19.2

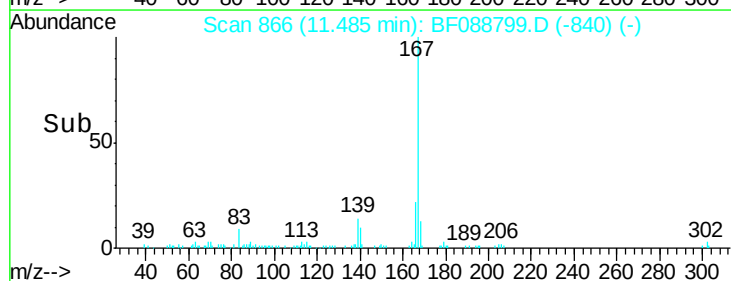
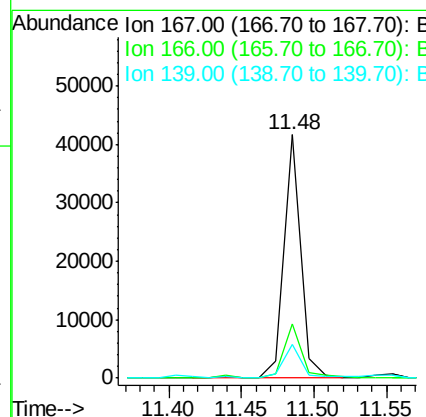
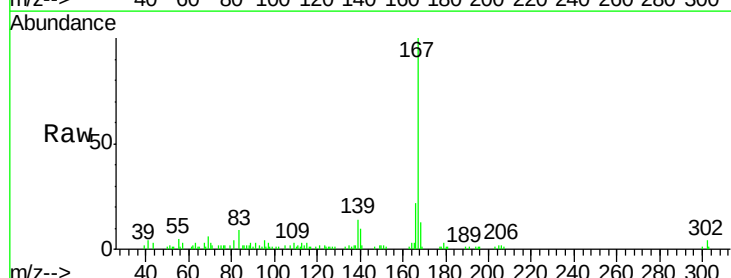
Manual Integrations

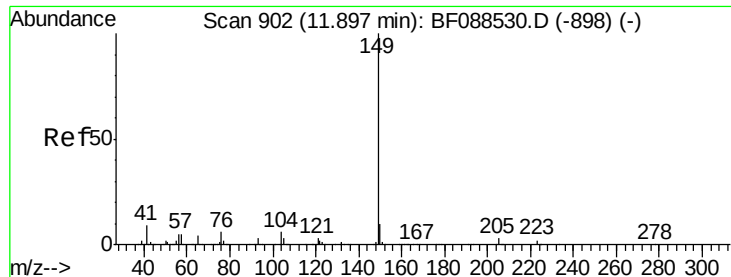
APPROVED
 SOHIL
 7/8/2016 7:04:18 AM



#72
 Carbazole
 Concen: 2.68 ng
 RT: 11.48 min Scan# 866
 Delta R.T. 0.00 min
 Lab File: BF088799.D
 Acq: 8 Jul 2016 1:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.8	26.6
139	14.0	11.2	16.8





#73

Di-n-butylphthalate

Concen: 19.77 ng

RT: 11.83 min Scan# 896

Delta R.T. 0.00 min

Lab File: BF088799.D

Acq: 8 Jul 2016 1:03

Instrument :

BNA_F

ClientSampleId :

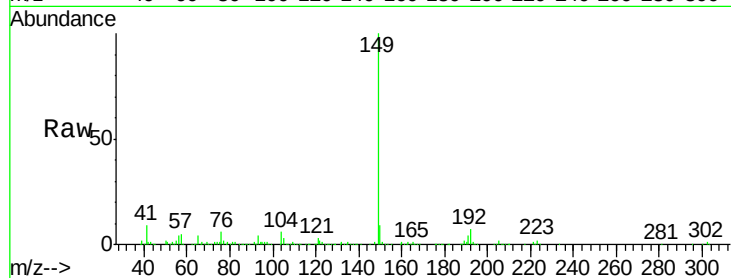
SS-2

Tot Ion:	149	Resp:	288237
Ion Ratio	Lower	Upper	
149	100		
150	9.5	7.8	11.6
104	5.5	4.0	6.0

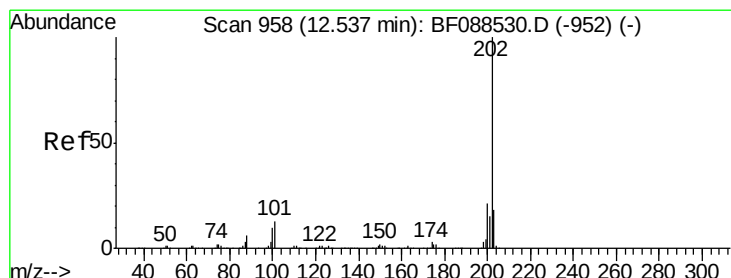
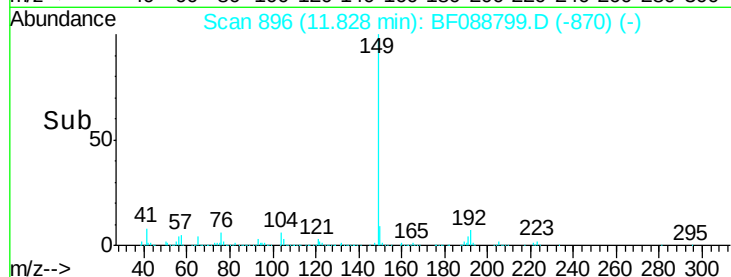
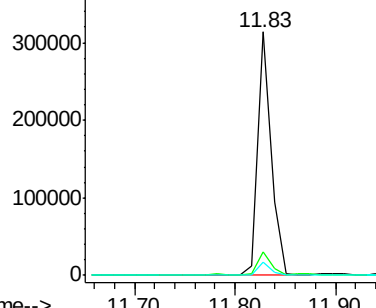
Manual Integrations

SOHIL

7/8/2016 7:04:18 AM



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 88.73 ng

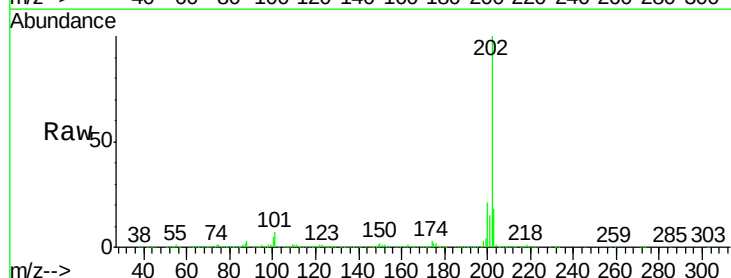
RT: 12.48 min Scan# 953

Delta R.T. 0.01 min

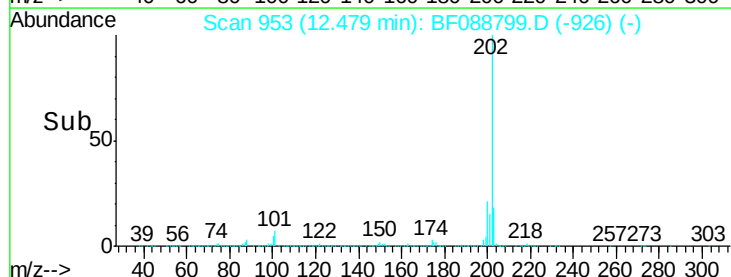
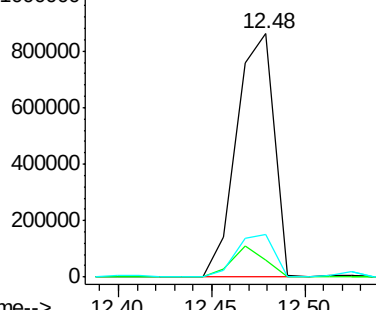
Lab File: BF088799.D

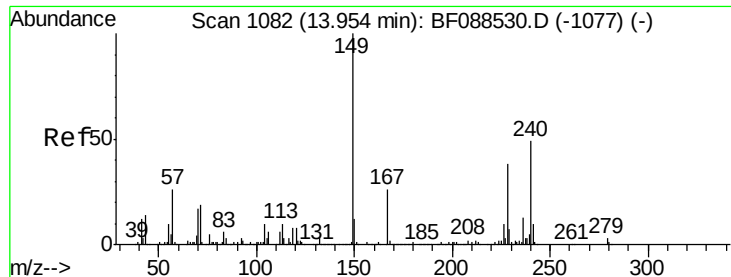
Acq: 8 Jul 2016 1:03

Tgt Ion:	202	Resp:	1204649
Ion Ratio	Lower	Upper	
202	100		
101	6.9	0.0	33.1
203	17.7	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





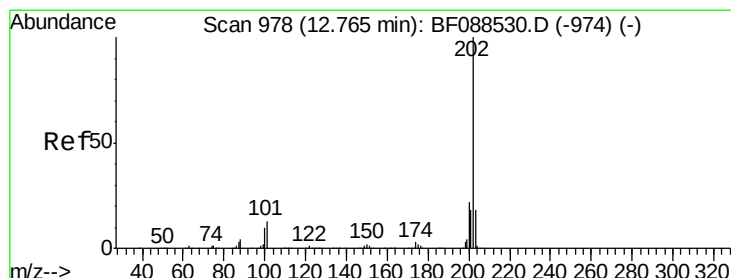
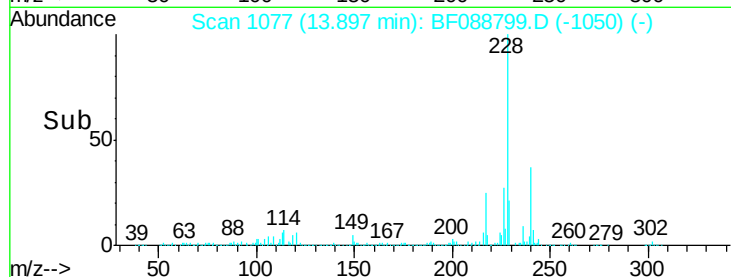
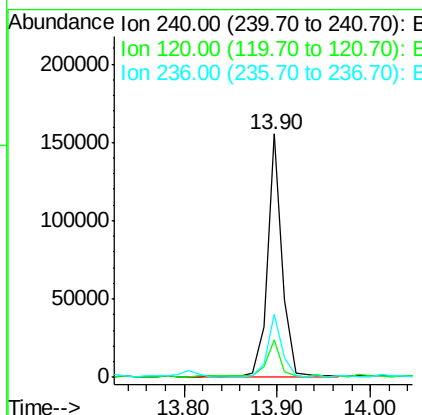
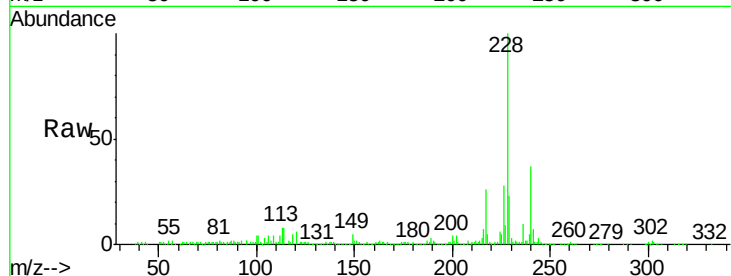
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.90 min Scan# 1077
Delta R.T. 0.01 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.2	6.8	10.2#
236	26.1	20.2	30.2

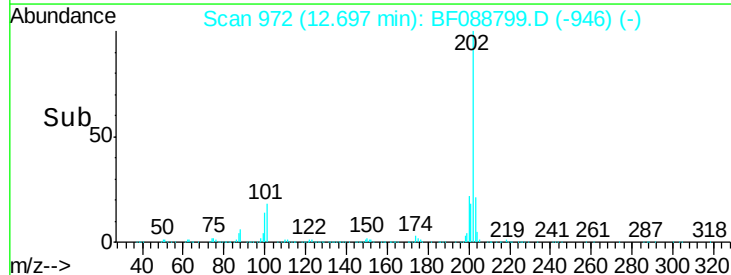
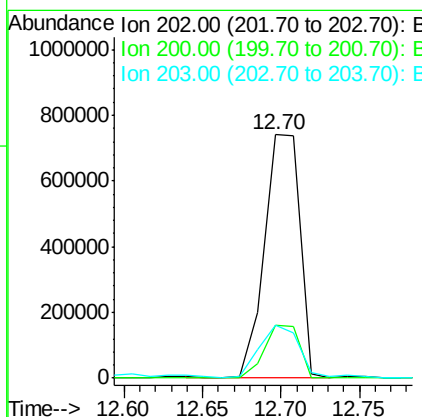
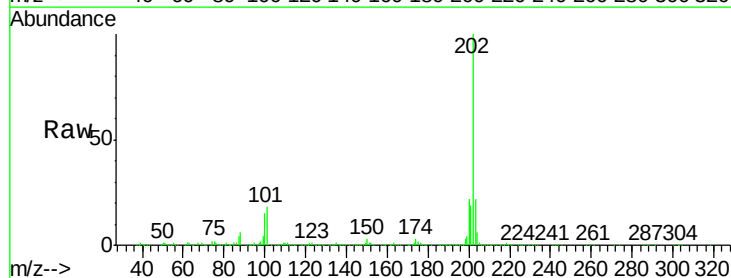
Manual Integrations

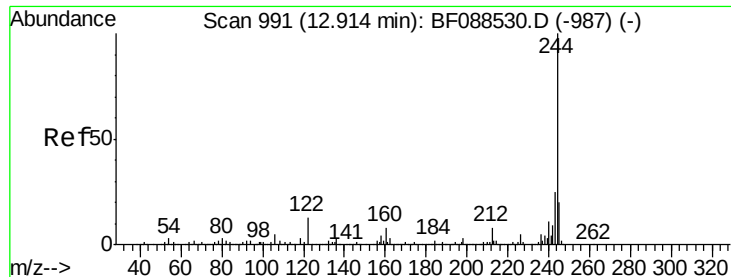
SOHIL
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#77
Pyrene
Concen: 81.76 ng m
RT: 12.70 min Scan# 972
Delta R.T. 0.00 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.2
203	21.8	14.5	21.7#





#78

Terphenyl-d14

Concen: 13.31 ng

RT: 12.85 min Scan# 985

Delta R.T. 0.00 min

Lab File: BF088799.D

Acq: 8 Jul 2016 1:03

Instrument :

BNA_F

ClientSampled :

SS-2

Tot Ion:244 Resp: 100720

Ion Ratio Lower Upper

244 100

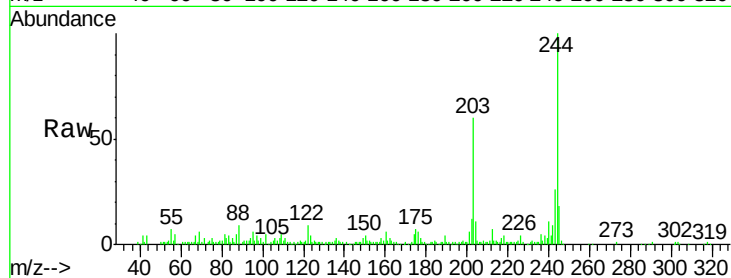
212 6.7 6.0 9.0

122 8.8 11.2 16.8#

Manual Integrations

SOHIL

7/8/2016 7:04:18 AM



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

120000

100000

80000

60000

40000

20000

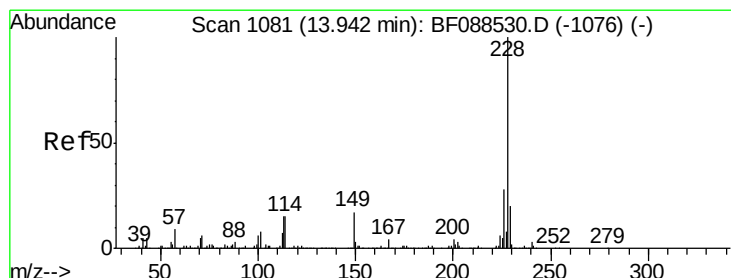
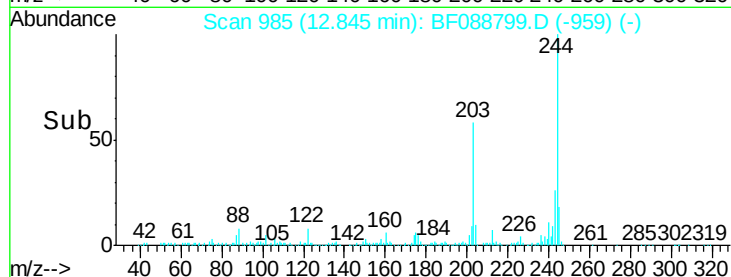
0

12.85

12.80

12.90

Time-->



#80

Benzo(a)anthracene

Concen: 98.95 ng

RT: 13.89 min Scan# 1076

Delta R.T. 0.01 min

Lab File: BF088799.D

Acq: 8 Jul 2016 1:03

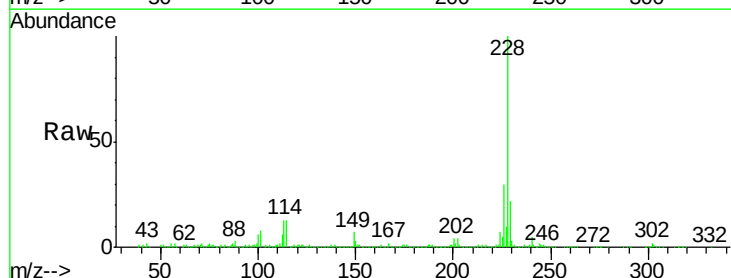
Tgt Ion:228 Resp: 1073684

Ion Ratio Lower Upper

228 100

226 29.6 22.3 33.5

229 22.4 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

800000

600000

400000

200000

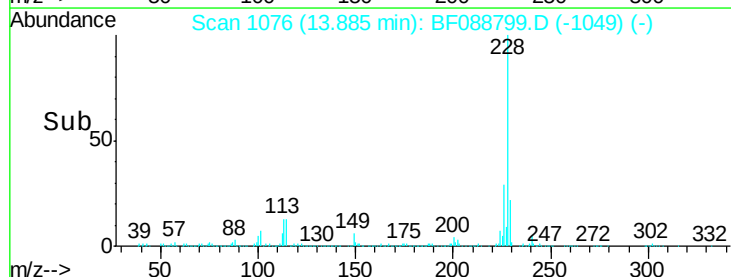
0

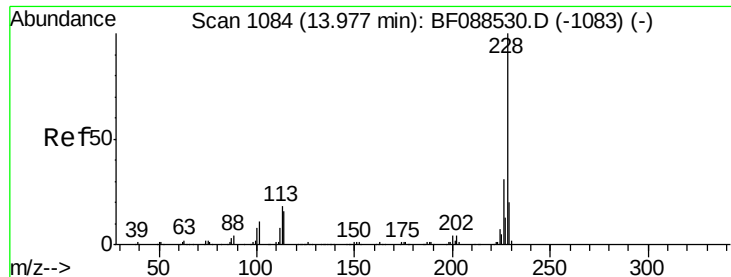
13.89

13.80

13.90

Time-->





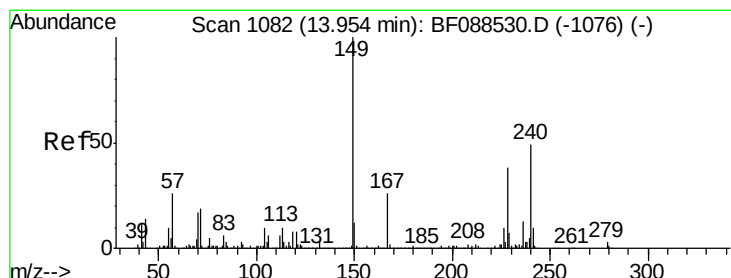
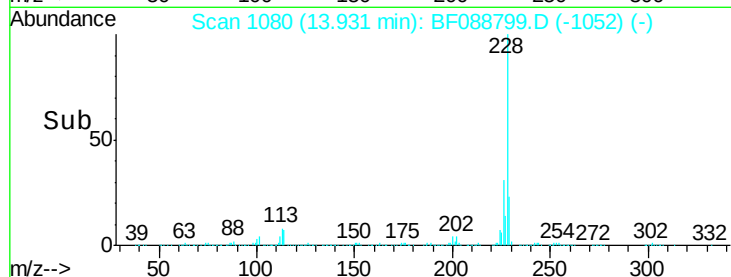
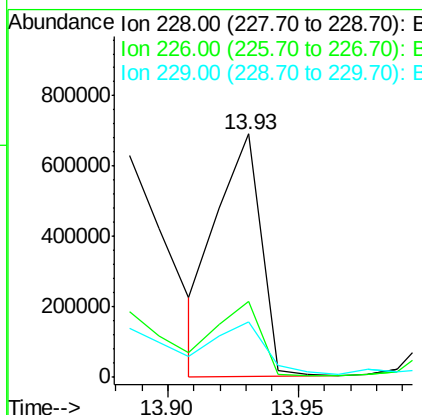
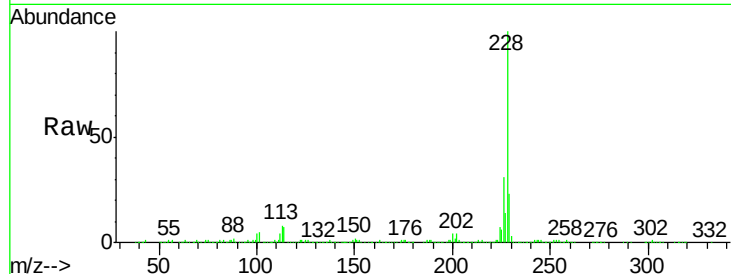
#82
Chrysene
Concen: 76.15 ng
RT: 13.93 min Scan# 1080
Delta R.T. 0.02 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.4	38.2
229	23.0	16.3	24.5

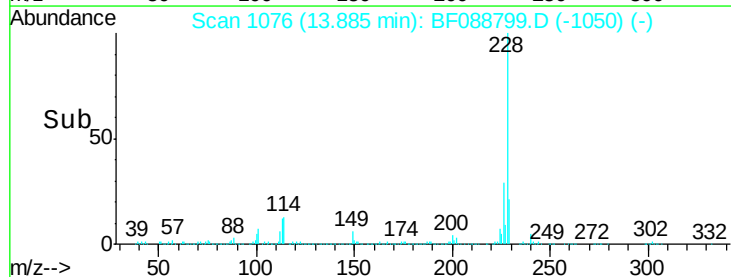
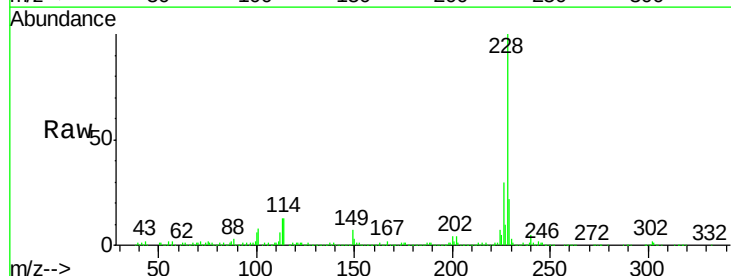
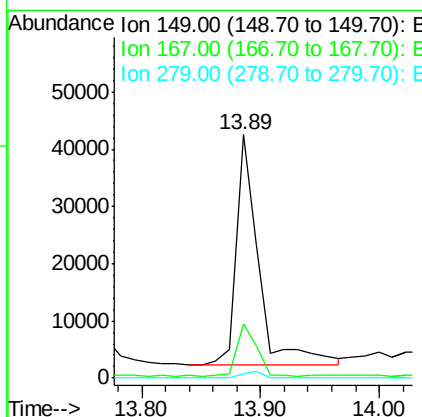
Manual Integrations

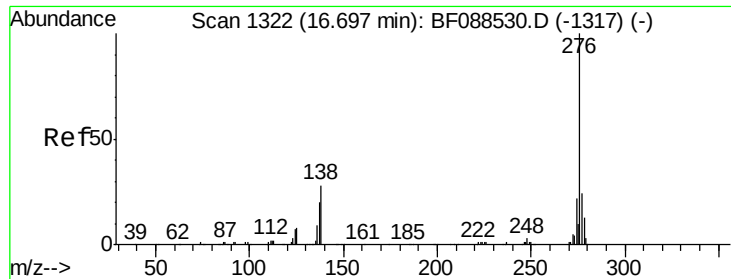
SOHIL
7/8/2016 7:04:18 AM



#83
Bis(2-ethylhexyl)phthalate
Concen: 7.25 ng
RT: 13.89 min Scan# 1076
Delta R.T. 0.00 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.5	20.5	30.7
279	1.8	2.0	3.0#





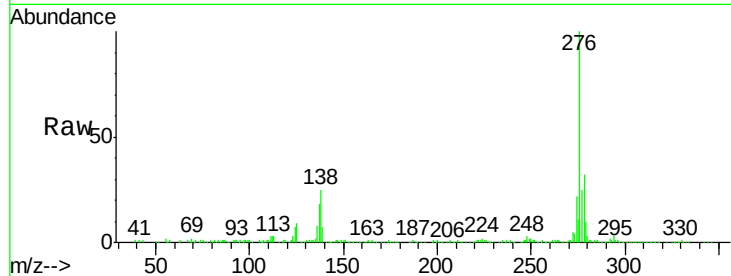
#85
Indeno(1,2,3-cd)pyrene
Concen: 46.38 ng
RT: 16.62 min Scan# 1315
Delta R.T. 0.03 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampled :
SS-2

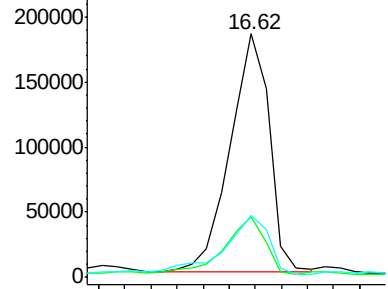
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.7	0.0	0.0#
277	29.0	0.0	0.0#

Manual Integrations

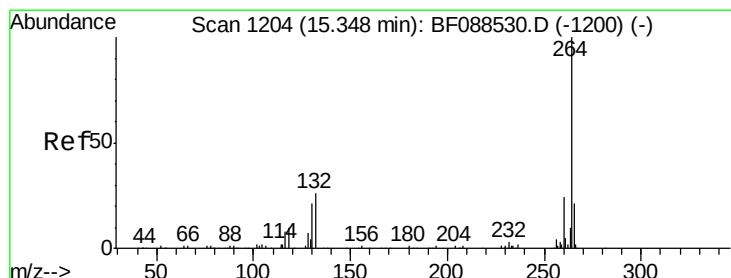
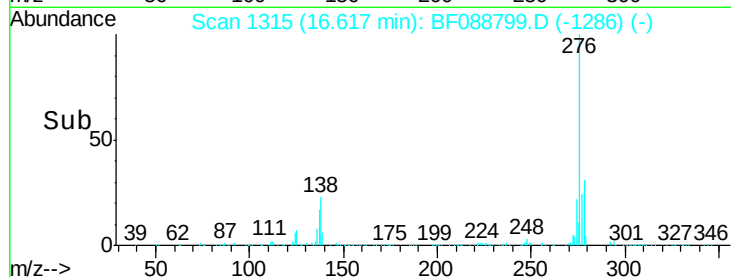
SOHIL
7/8/2016 7:04:18 AM



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

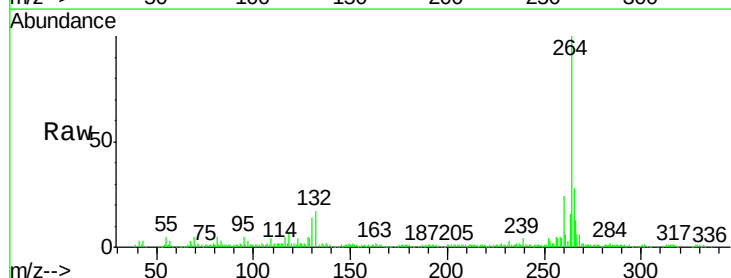


Time--> 16.50 16.60 16.70

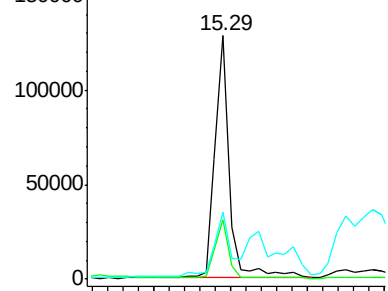


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.29 min Scan# 1199
Delta R.T. 0.02 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

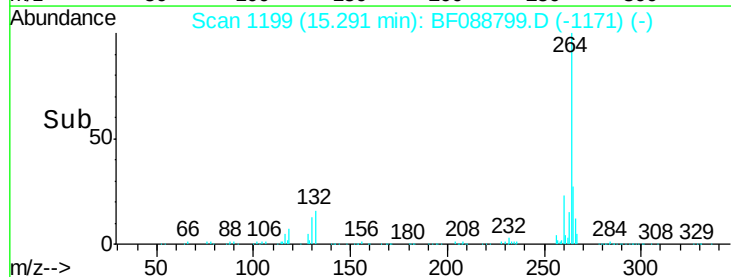
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	27.7	16.9	25.3#

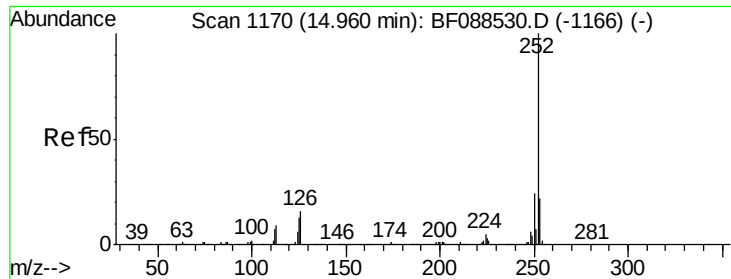


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time--> 15.20 15.30 15.40





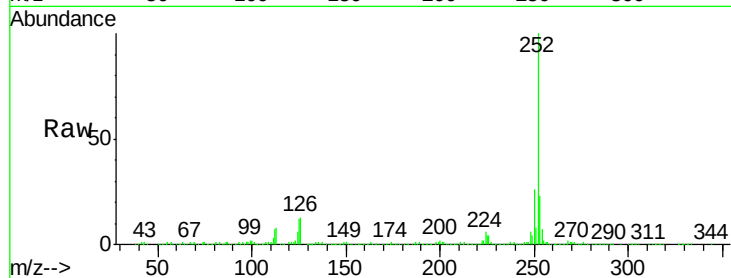
#87
Benzo(b)fluoranthene
Concen: 115.17 ng m
RT: 14.91 min Scan# 1166
Delta R.T. 0.03 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

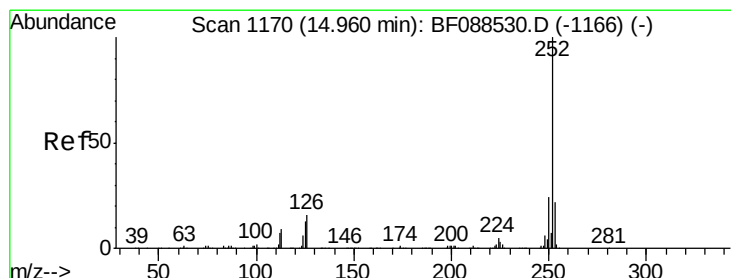
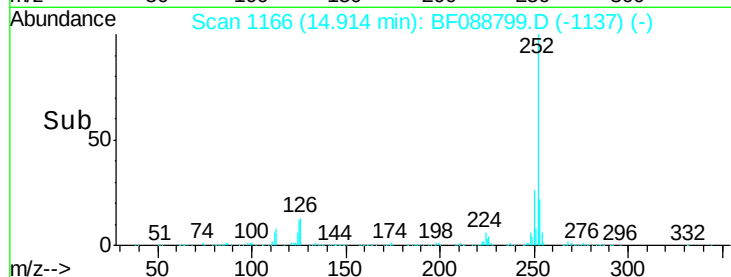
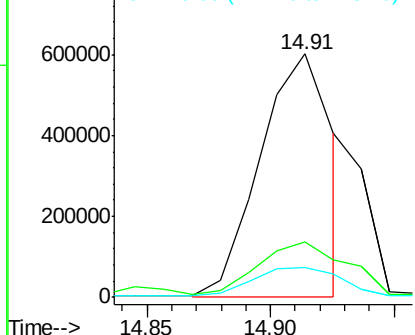
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.2
125	12.3	7.1	10.7

Manual Integrations

SOHIL
7/8/2016 7:04:18 AM



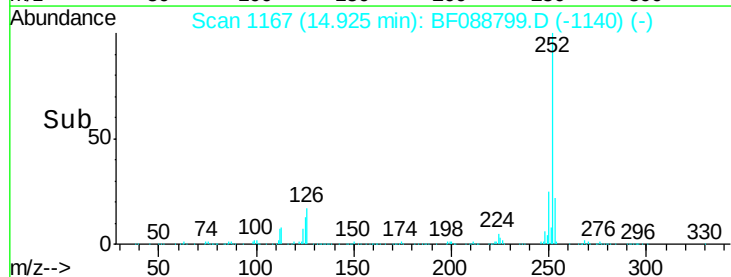
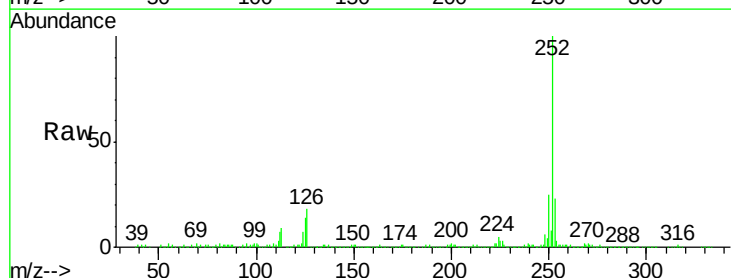
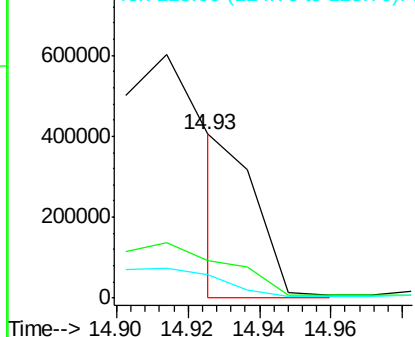
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

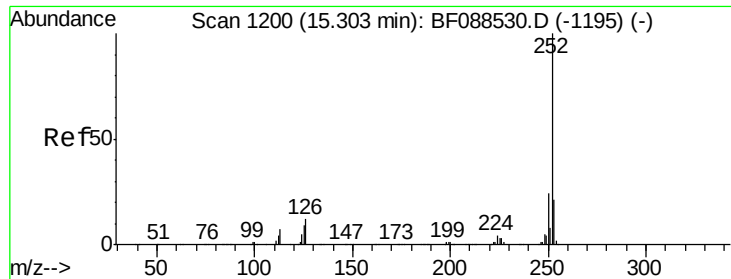


#88
Benzo(k)fluoranthene
Concen: 25.09 ng m
RT: 14.93 min Scan# 1167
Delta R.T. 0.01 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.0	27.0
125	14.0	11.2	16.8

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





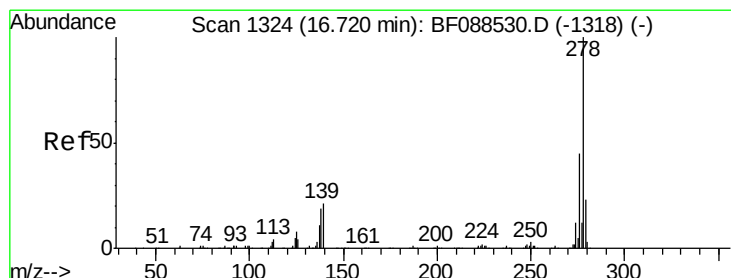
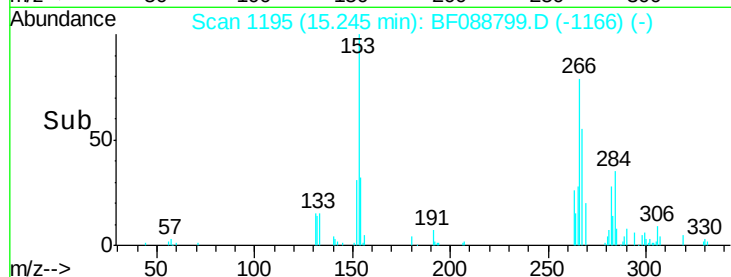
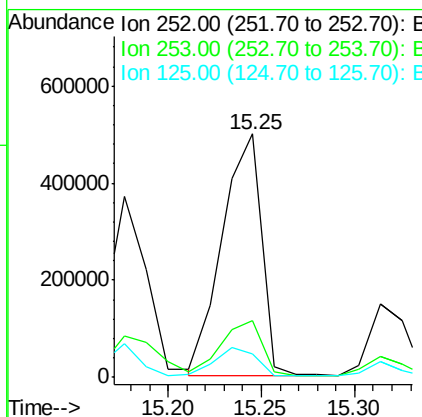
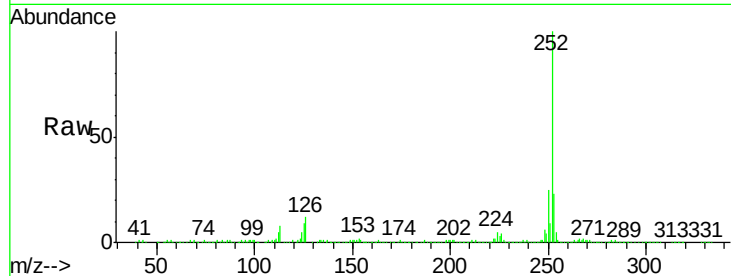
#89
Benzo(a)pyrene
Concen: 81.80 ng
RT: 15.25 min Scan# 1195
Delta R.T. 0.03 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Instrument :
BNA_F
ClientSampleId :
SS-2

Tot Ion	Ion	Ratio	Lower	Upper
737067	252	100		
	253	23.3	17.9	26.9
	125	9.4	12.5	18.7

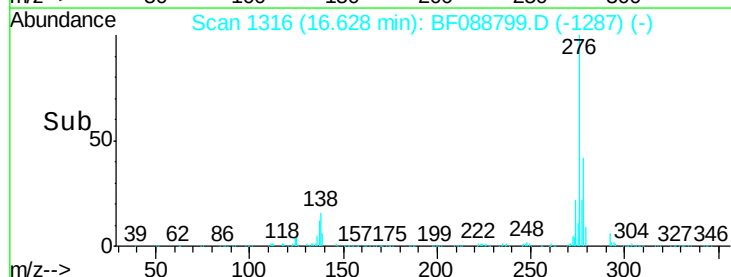
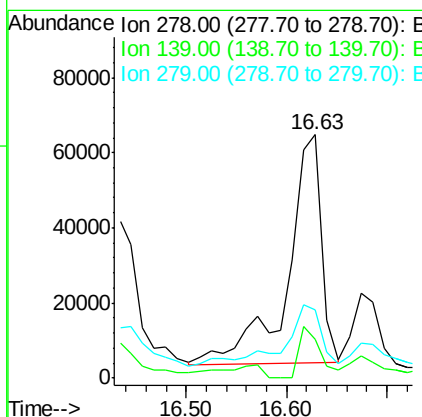
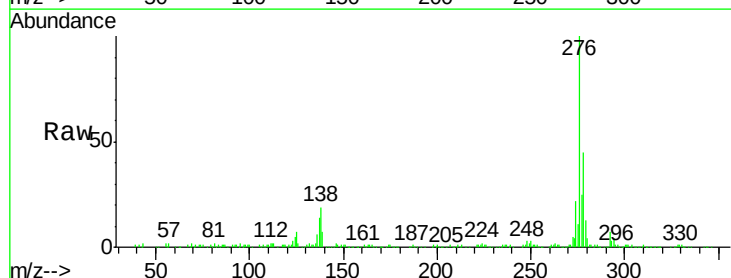
Manual Integrations

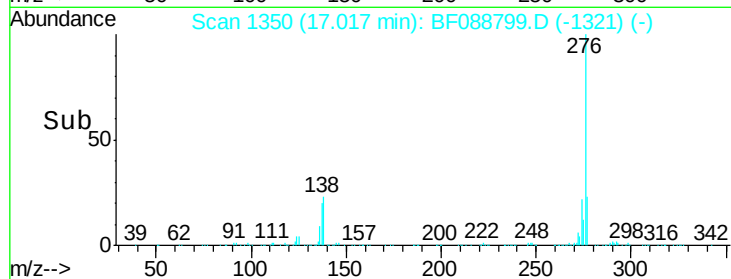
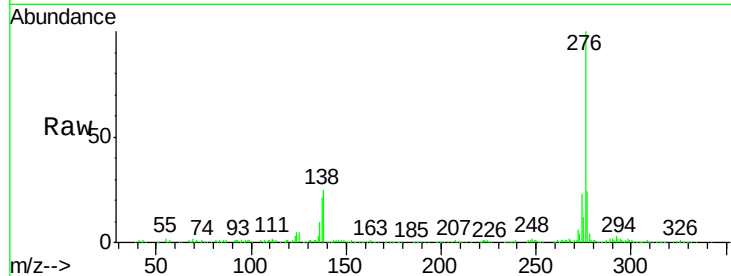
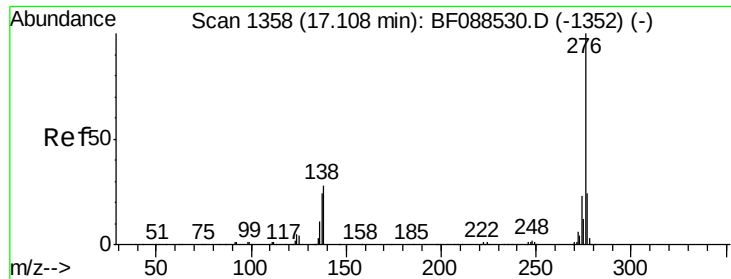
SOHIL
7/8/2016 7:04:18 AM



#90
Dibenzo(a,h)anthracene
Concen: 19.05 ng
RT: 16.63 min Scan# 1316
Delta R.T. 0.03 min
Lab File: BF088799.D
Acq: 8 Jul 2016 1:03

Tgt Ion	Ion	Ratio	Lower	Upper
143316	278	100		
	139	16.1	15.7	23.5
	279	28.2	19.4	29.2





#91

Benzo(a,h,i)perylene

Concen: 46.38 ng

RT: 17.02 min Scan# 1350

Delta R.T. 0.03 min

Lab File: BF088799.D

Acq: 8 Jul 2016 1:03

Instrument :

BNA_F

ClientSampleId :

SS-2

Tot Ion: 276 Resp: 361091

Ion Ratio Lower Upper

276 100

277 24.2 18.9 28.3

138 24.6 21.4 32.2

Manual Integrations

SOHIL

7/8/2016 7:04:18 AM

