

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081217\
 Data File : BF097664.D
 Acq On : 13 Aug 2017 9:30
 Operator : SJ/JU
 Sample : I4736-02
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMP

Manual Integrations
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Quant Time: Aug 14 07:57:51 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 11 15:55:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	129420	20.00	ng	-0.01
21) Naphthalene-d8	9.53	136	550347	20.00	ng	-0.01
38) Acenaphthene-d10	12.35	164	201699	20.00	ng	-0.02
63) Phenanthrene-d10	14.75	188	245308	20.00	ng	-0.01
75) Chrysene-d12	18.46	240	172658	20.00	ng	0.00
86) Perylene-d12	20.13	264	170380	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	605815	74.40	ng	0.02
7) Phenol-d6	7.07	99	719869	71.27	ng	0.01
23) Nitrobenzene-d5	8.41	82	465739	53.06	ng	-0.01
41) 2,4,6-Tribromophenol	13.65	330	73462	47.91	ng	-0.01
44) 2-Fluorobiphenyl	11.30	172	612930	45.86	ng	-0.02
78) Terphenyl-d14	17.10	244	281509	33.74	ng	-0.02

Target Compounds				Qvalue		
31) Naphthalene	9.56	128	287087	10.415	ng	99
37) 2-Methylnaphthalene	10.69	142	56566	3.261	ng	95
48) Acenaphthylene	12.12	152	115989	5.491	ng	98
49) Dimethylphthalate	12.00	163	121885	7.841	ng	99
51) Acenaphthene	12.40	154	306137	24.184	ng	99
54) Dibenzofuran	12.69	168	399294	22.532	ng	98
57) Fluorene	13.24	166	372651	25.570	ng	99
70) Phenanthrene	14.79	178	593993	42.041	ng	100
71) Anthracene	14.87	178	621365	42.983	ng	99
72) Carbazole	15.17	167	58644	4.261	ng	98
74) Fluoranthene	16.57	202	1793261	140.462	ng	98
77) Pyrene	16.87	202	1635054	114.515	ng	97
80) Benzo(a)anthracene	18.45	228	853398	84.628	ng	99
82) Chrysene	18.49	228	750936	74.869	ng	98
85) Indeno(1,2,3-cd)pyrene	21.34	276	307660	39.438	ng	99
87) Benzo(b)fluoranthene	19.73	252	888092m	86.804	ng	
88) Benzo(k)fluoranthene	19.75	252	237024m	23.003	ng	
89) Benzo(a)pyrene	20.08	252	638177	67.959	ng	99
90) Dibenzo(a,h)anthracene	21.34	278	74369m	11.061	ng	
91) Benzo(a,h,i)perylene	21.70	276	300704	40.769	ng	96

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

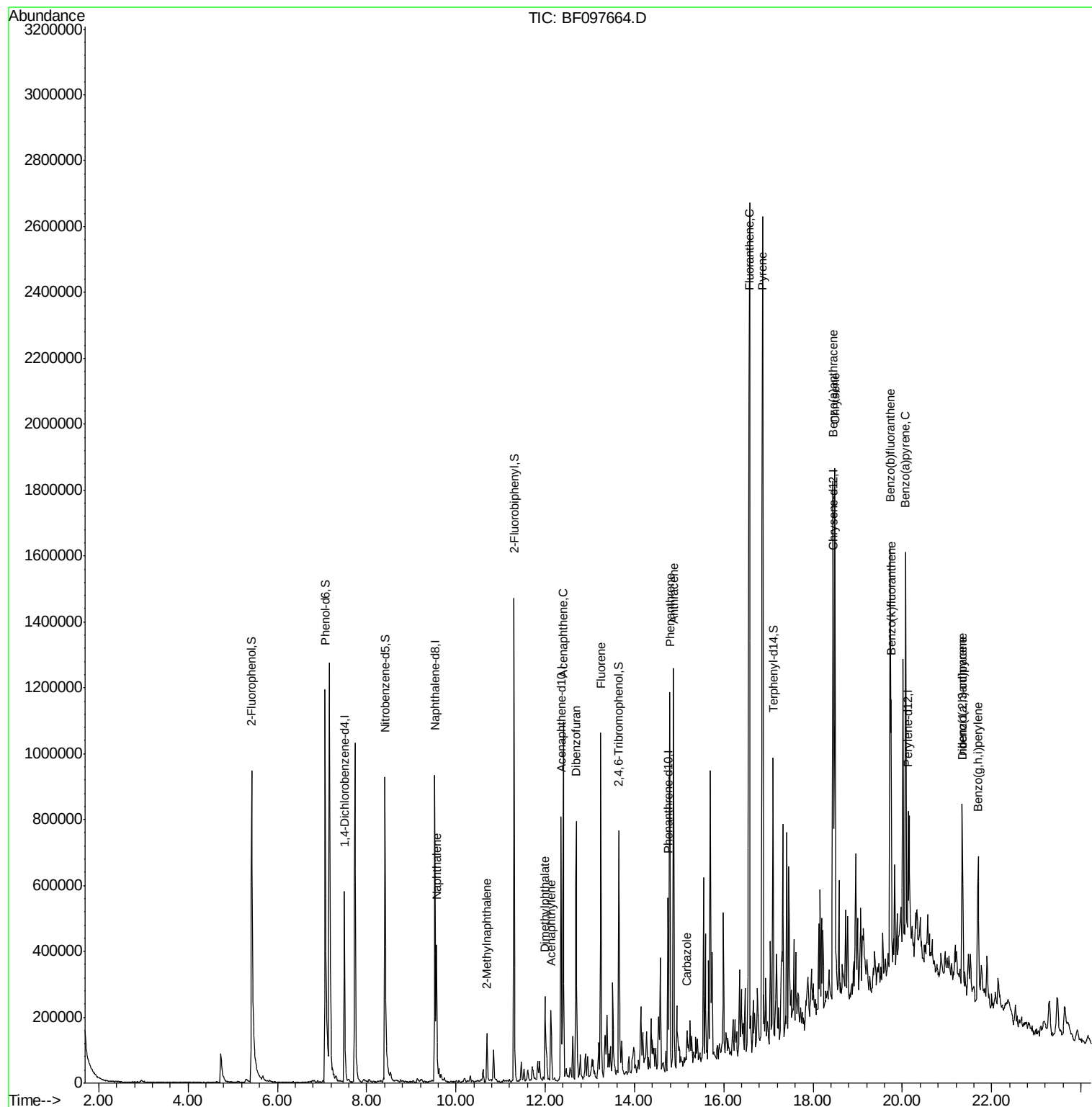
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081217\
Data File : BF097664.D
Acq On : 13 Aug 2017 9:30
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Sample : I4736-02
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ALS Vial : 31 Sample Multiplier: 1

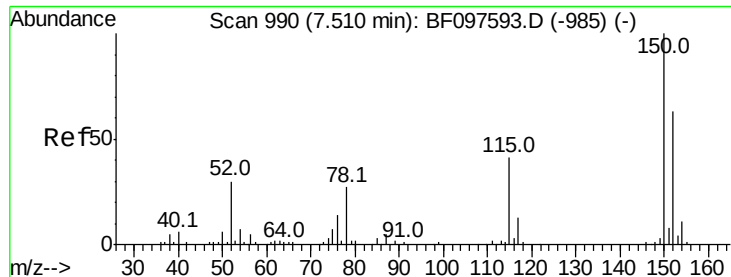
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#1

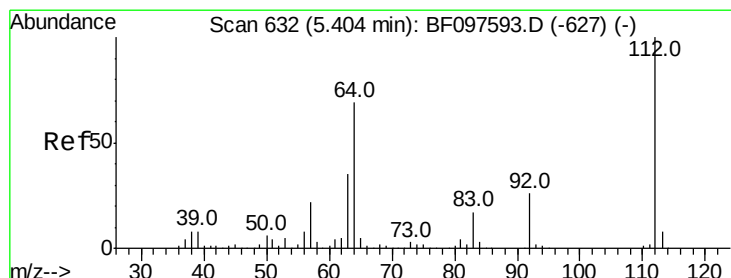
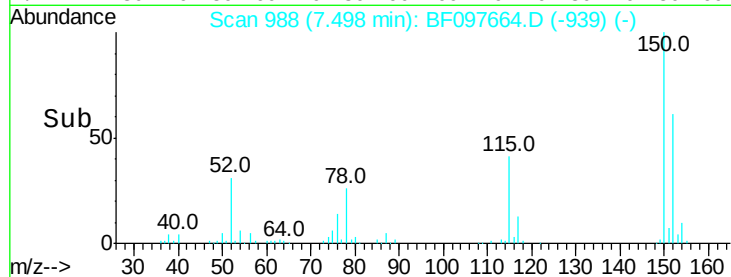
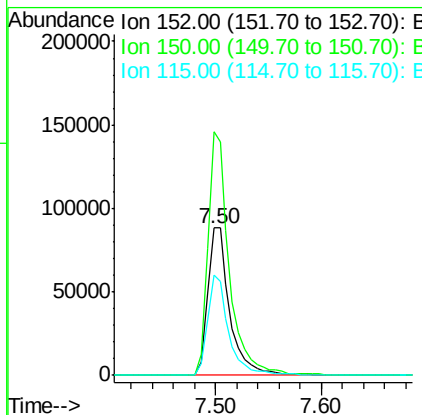
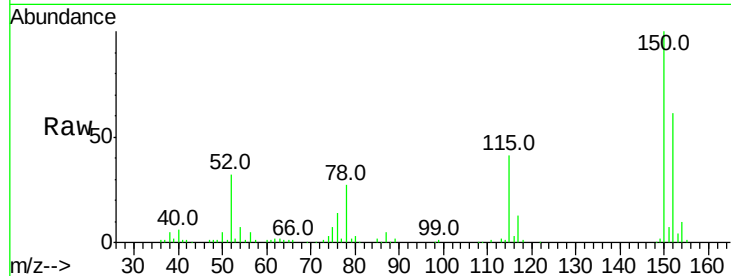
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.50 min Scan# 988
Delta R.T. -0.01 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Instrument :
BNA_F
ClientSampleId :
SB-32-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	165.1	126.2	189.2
115	68.1	52.2	78.2

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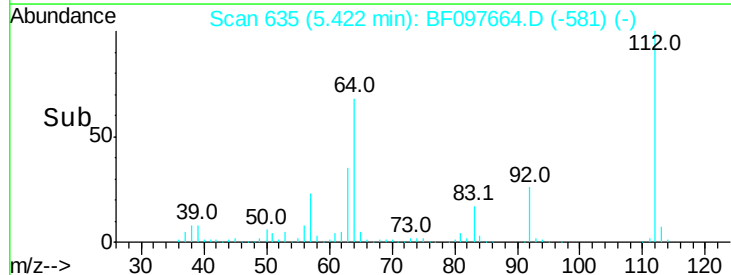
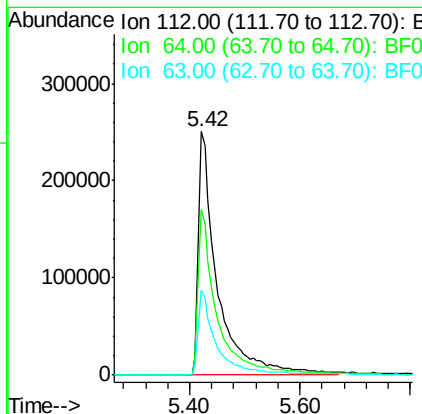
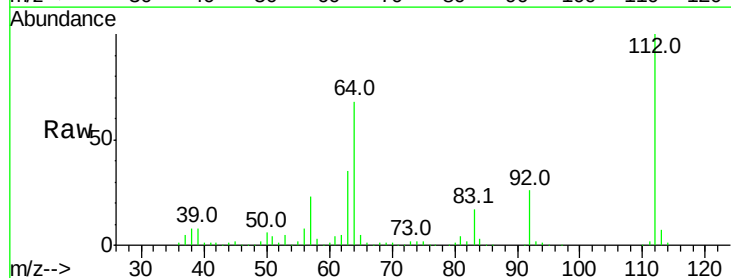
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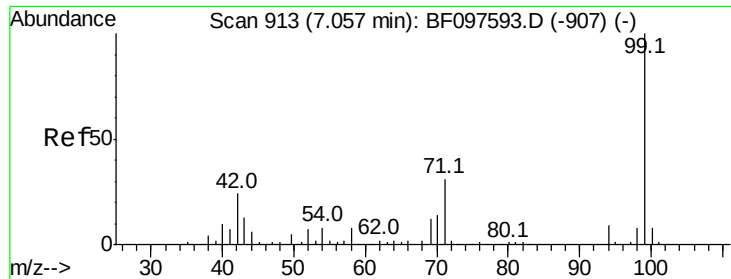


#5

2-Fluorophenol
Concen: 74.404 ng
RT: 5.42 min Scan# 635
Delta R.T. 0.02 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.8	46.0	69.0
63	34.8	23.4	35.0





#7

Phenol-d6

Concen: 71.271 ng

RT: 7.07 min Scan# 915

Delta R.T. 0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Instrument :

BNA_F

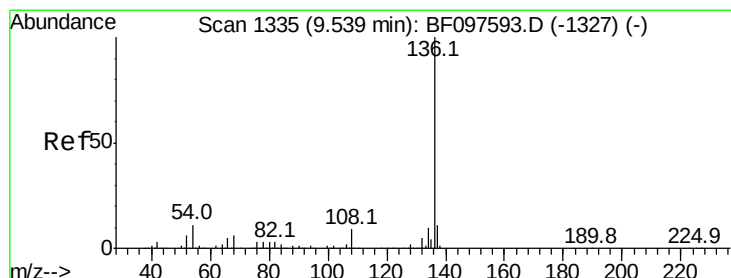
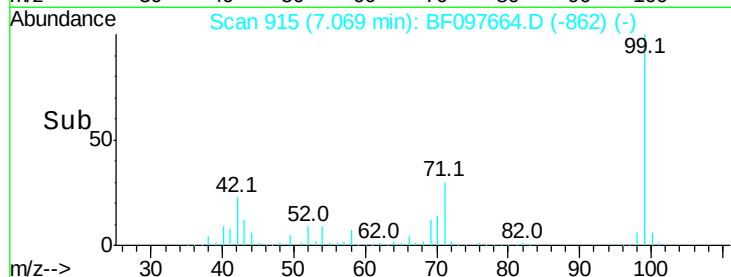
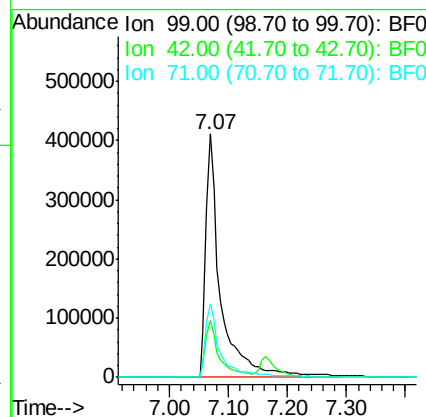
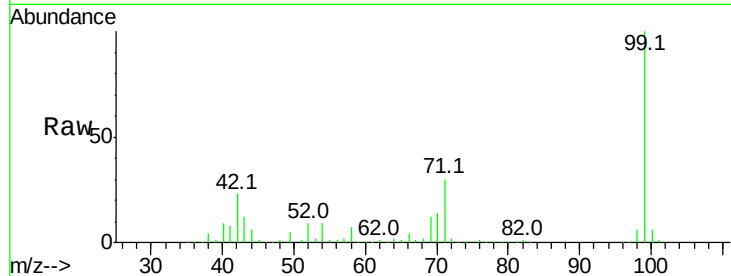
ClientSampled :

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Tot Ion	Ratio	Resp	Lower	Upper
99	100	719869		
42	23.2		13.5	20.3#
71	30.3		24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

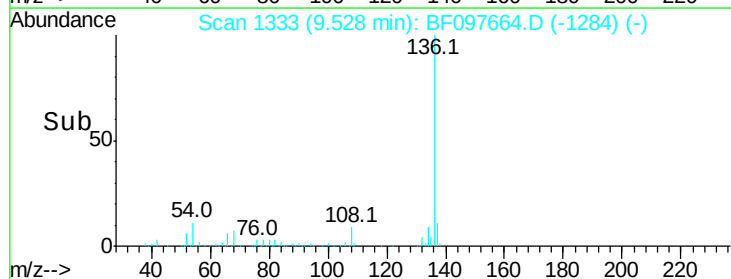
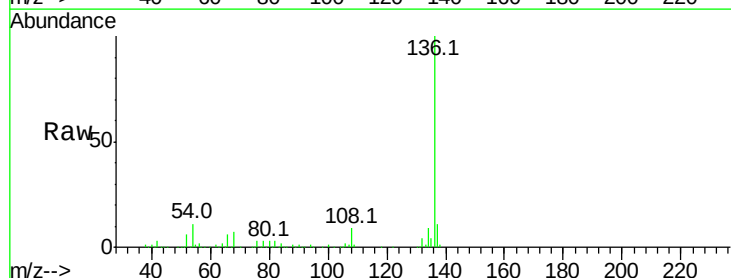
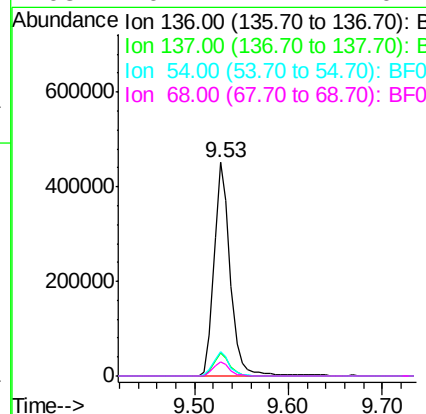
RT: 9.53 min Scan# 1333

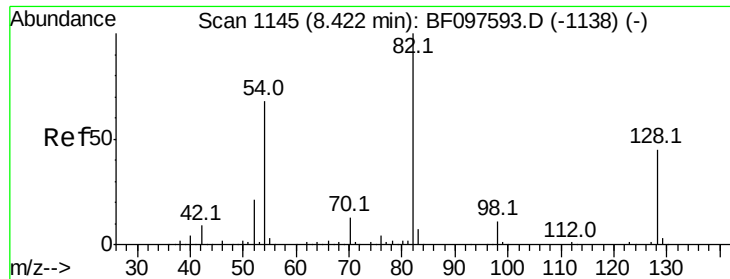
Delta R.T. -0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	550347		
137	10.8		8.5	12.7
54	11.3		4.9	7.3#
68	6.7		4.1	6.1#





#23

Nitrobenzene-d5

Concen: 53.065 ng

RT: 8.41 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Instrument :

BNA_F

ClientSampleId :

SB-32-COMP

Tot Ion: 82 Resp: 465739

Ion Ratio Lower Upper

82 100

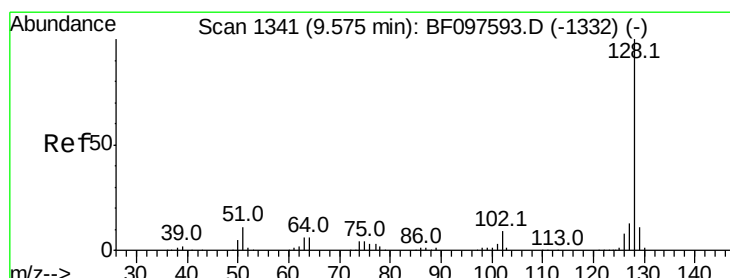
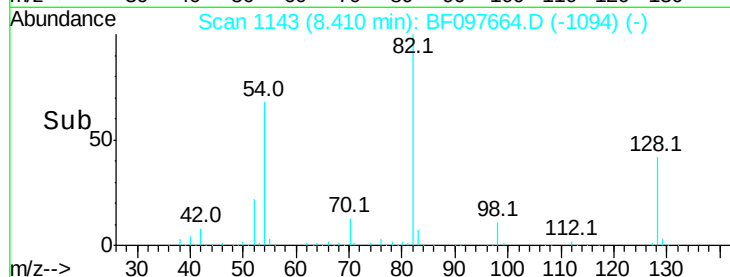
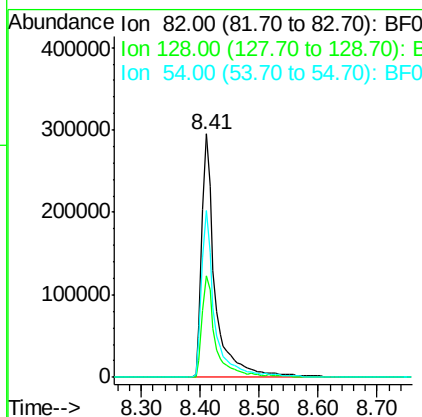
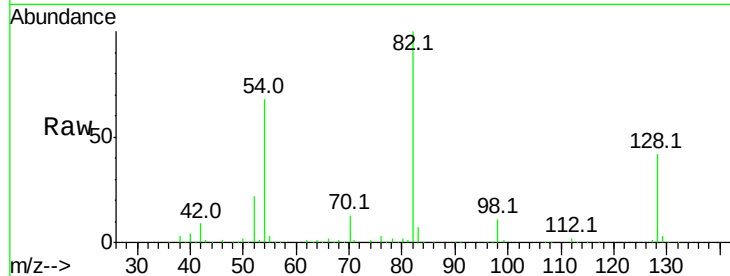
128 41.9 34.0 51.0

54 68.3 42.2 63.2#

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#31

Naphthalene

Concen: 10.415 ng

RT: 9.56 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

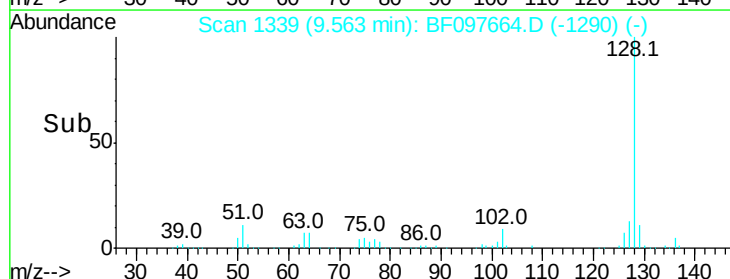
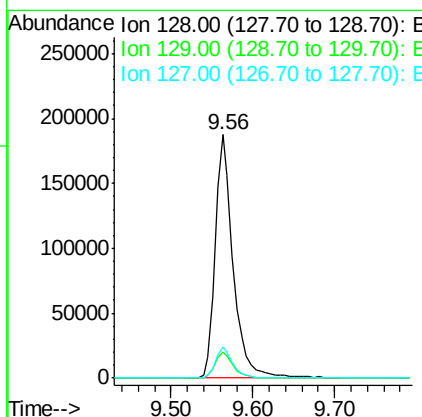
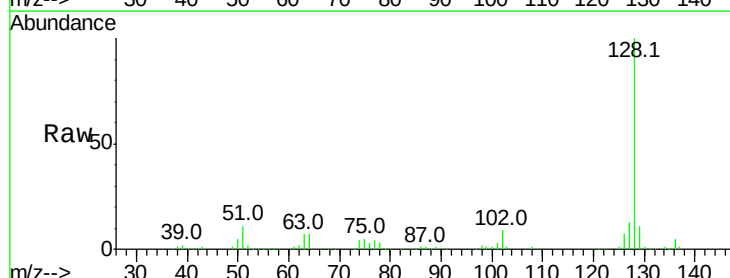
Tgt Ion: 128 Resp: 287087

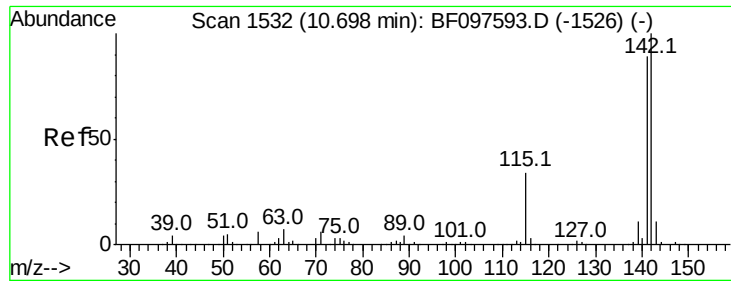
Ion Ratio Lower Upper

128 100

129 10.8 9.0 13.6

127 13.0 10.8 16.2





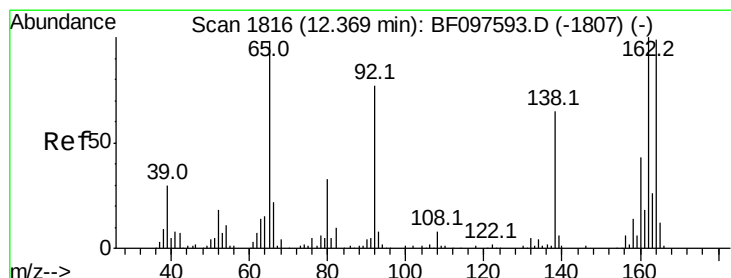
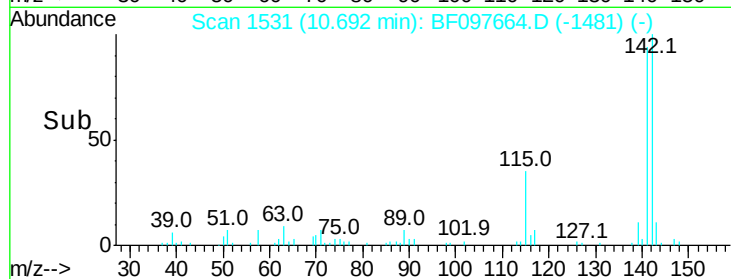
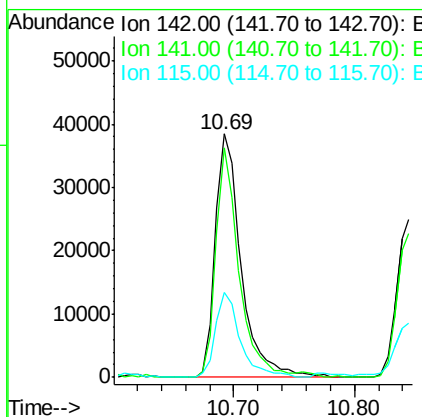
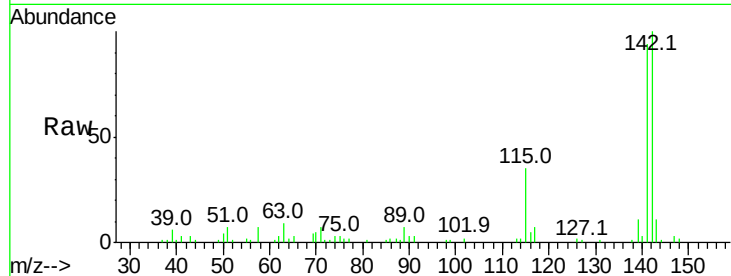
#37
2-Methylnaphthalene
Concen: 3.261 ng
RT: 10.69 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Instrument :
BNA_F
ClientSampled :
SB-32-COMP

Tot Ion	Ratio	Lower	Upper
142	100		
141	94.4	71.3	106.9
115	35.0	27.1	40.7

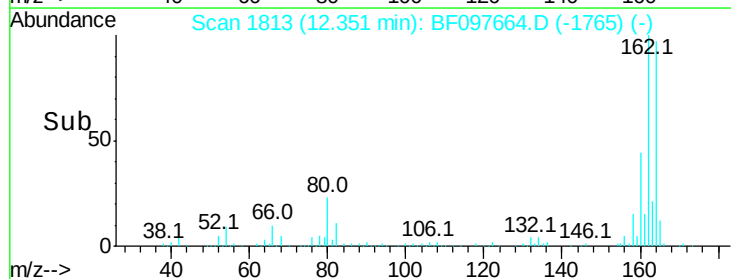
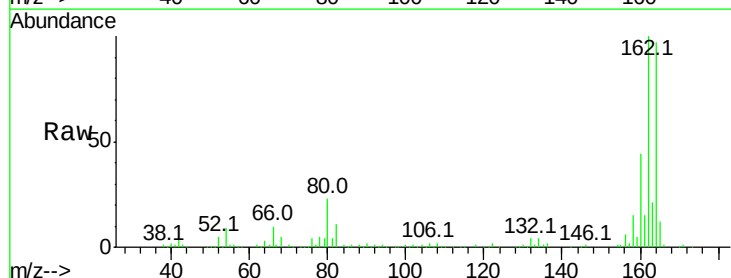
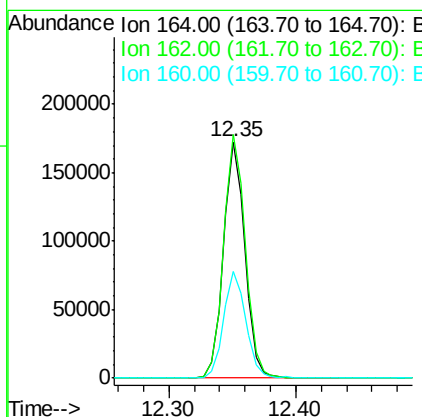
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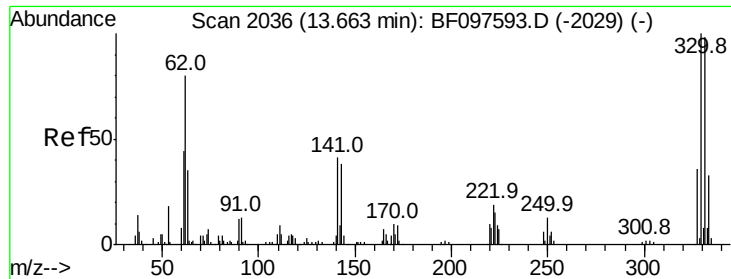
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 12.35 min Scan# 1813
Delta R.T. -0.02 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.6	123.8
160	45.0	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 47.912 ng

RT: 13.65 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Instrument :

BNA_F

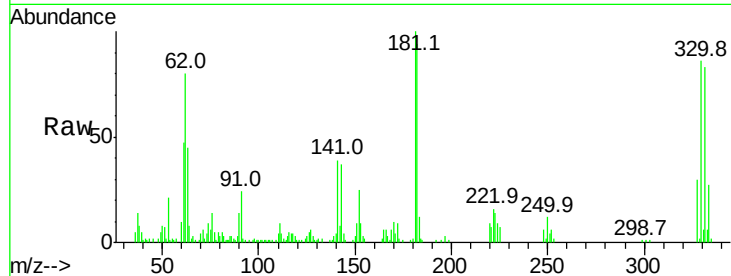
ClientSampleId :

SB-32-COMP

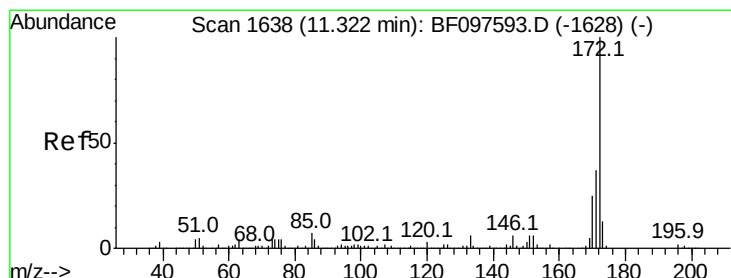
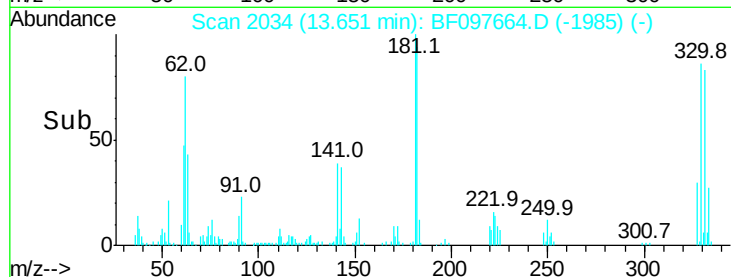
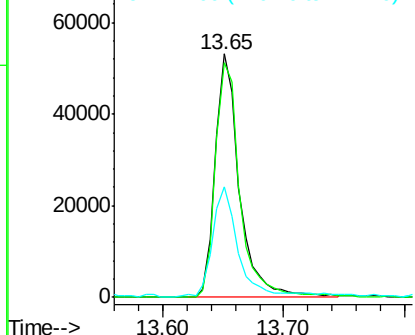
Tot Ion	Ratio	Resp	Lower	Upper
330	100	73462		
332	96.9	76.6	115.0	
141	46.8	31.4	47.2	

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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: 45.862 ng

RT: 11.30 min Scan# 1635

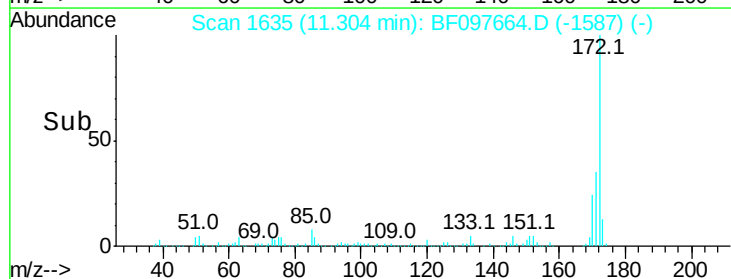
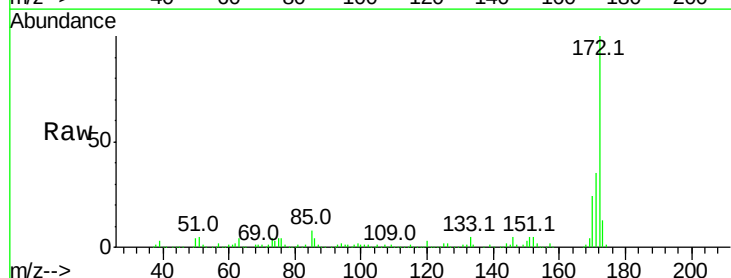
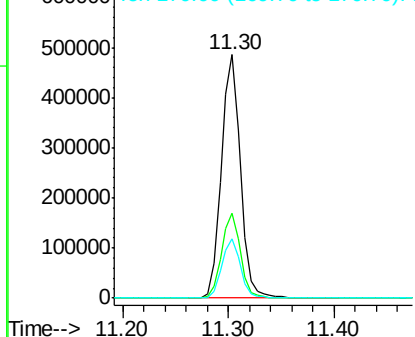
Delta R.T. -0.02 min

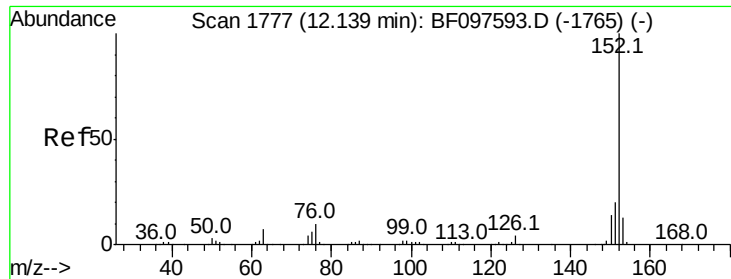
Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	612930		
171	34.7	29.6	44.4	
170	24.1	19.8	29.8	

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





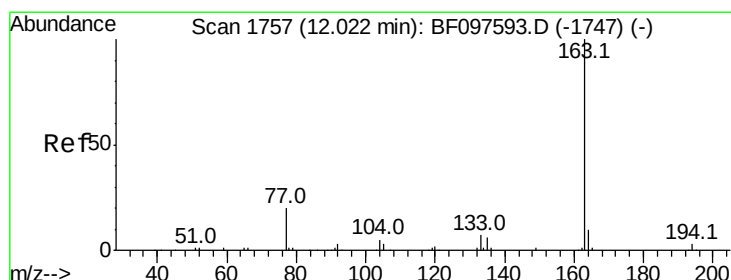
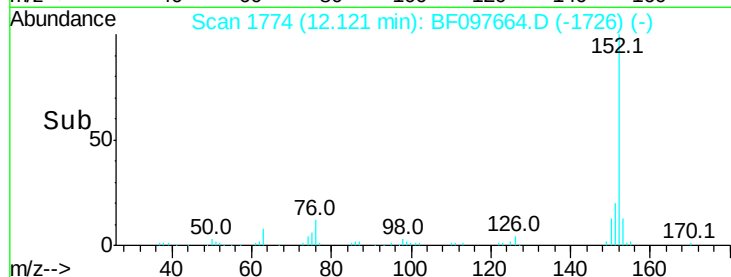
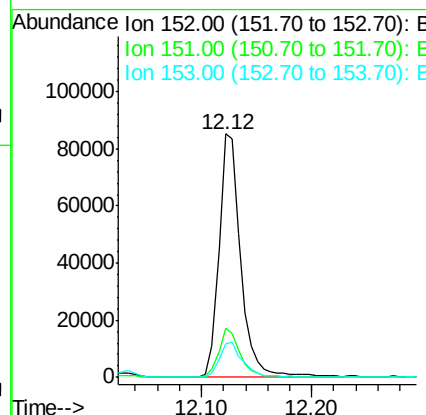
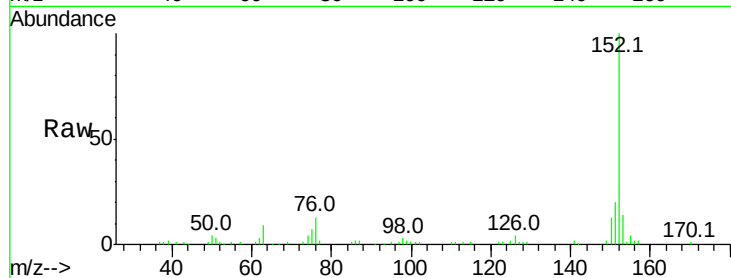
#48
Acenaphthylene
Concen: 5.491 ng
RT: 12.12 min Scan# 1774
Delta R.T. -0.02 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Instrument :
BNA_F
ClientSampleId :
SB-32-COMP

Tot Ion	Ratio	Resp	Lower	Upper
152	100	115989		
151	20.2		16.8	25.2
153	14.1		10.8	16.2

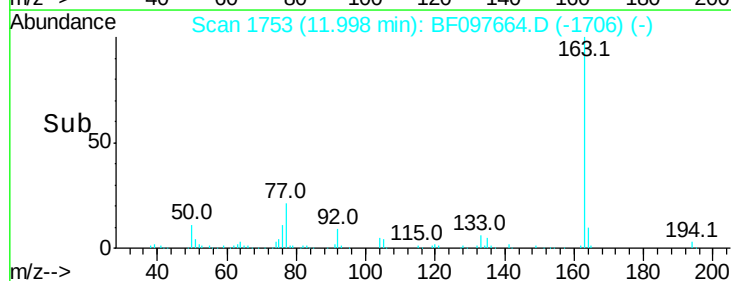
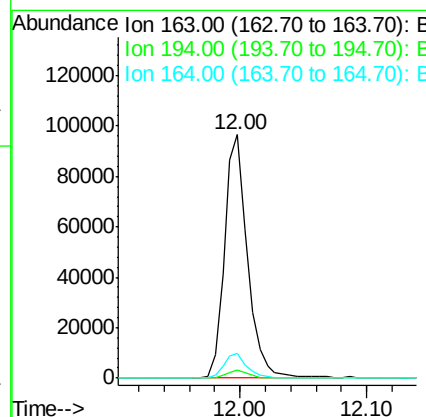
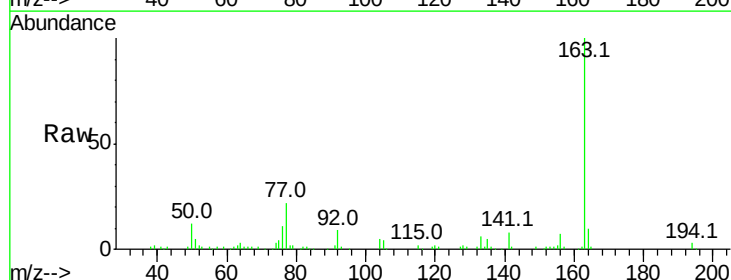
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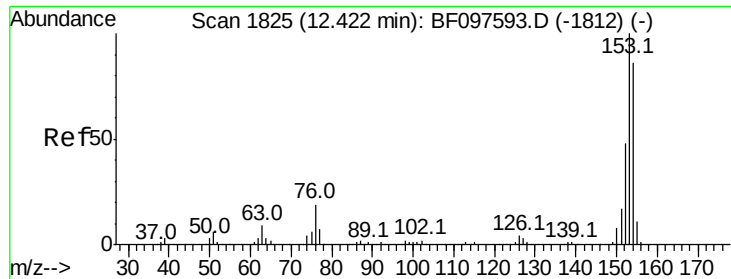
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#49
Dimethylphthalate
Concen: 7.841 ng
RT: 12.00 min Scan# 1753
Delta R.T. -0.02 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	121885		
194	3.2		2.6	4.0
164	10.0		8.4	12.6





#51

Acenaphthene

Concen: 24.184 ng

RT: 12.40 min Scan# 1822

Delta R.T. -0.02 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Instrument :

BNA_F

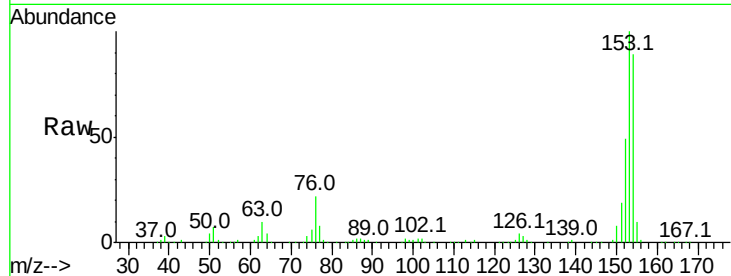
ClientSampleId :

SB-32-COMP

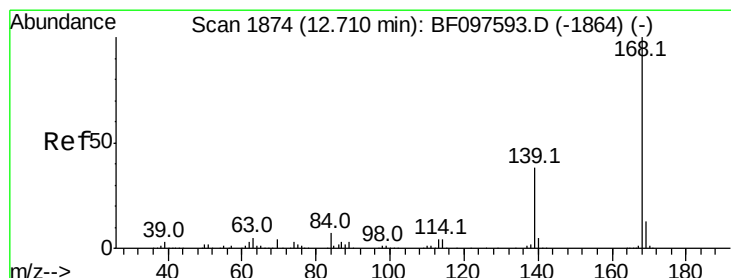
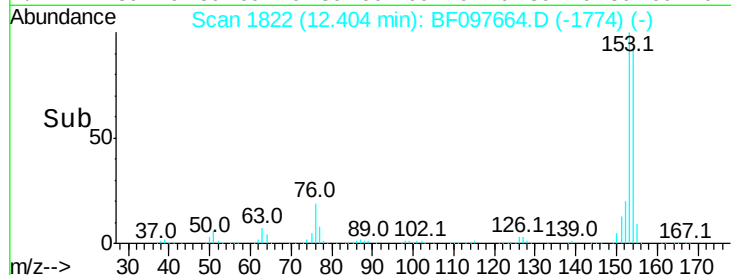
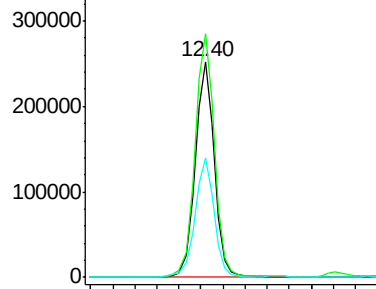
Tot Ion:	154	Resp:	306137
Ion Ratio	Lower	Upper	
154	100		
153	112.8	90.5	135.7
152	55.6	43.6	65.4

Manual Integrations
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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



#54

Dibenzofuran

Concen: 22.532 ng

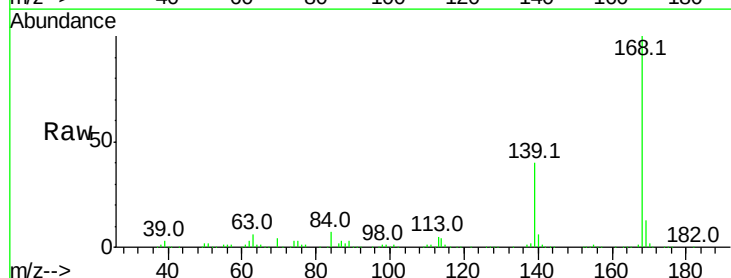
RT: 12.69 min Scan# 1871

Delta R.T. -0.02 min

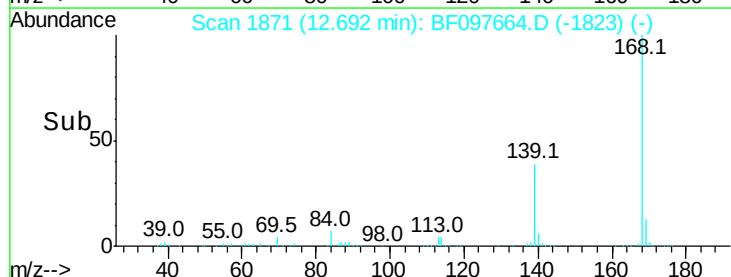
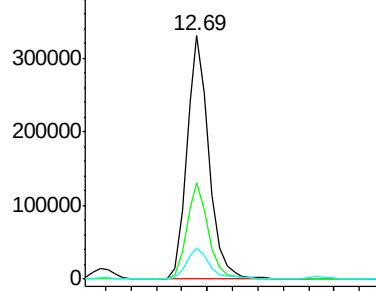
Lab File: BF097664.D

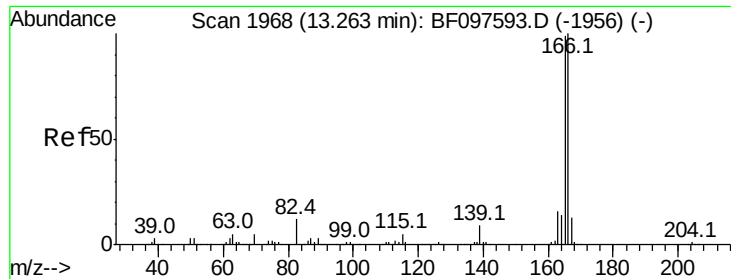
Acq: 13 Aug 2017 9:30

Tgt Ion:	168	Resp:	399294
Ion Ratio	Lower	Upper	
168	100		
139	39.6	30.6	45.8
169	13.0	10.8	16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 25.570 ng

RT: 13.24 min Scan# 1965

Delta R.T. -0.02 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Instrument :

BNA_F

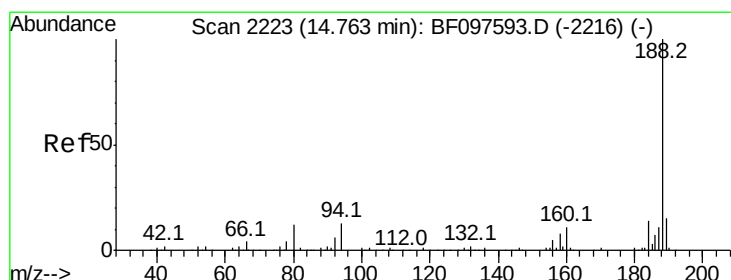
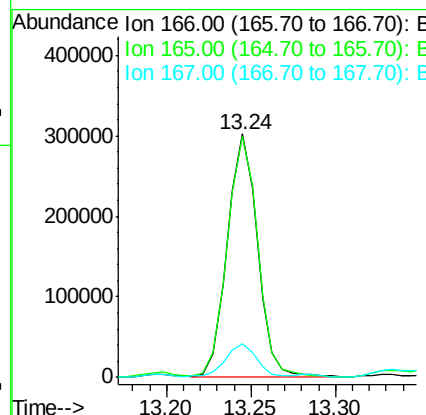
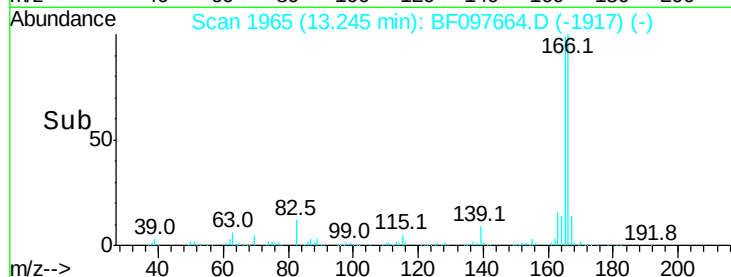
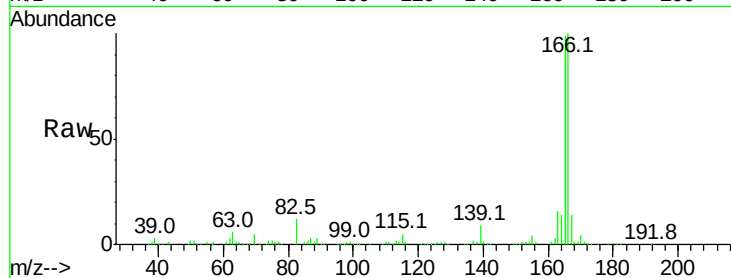
ClientSampleId :

SB-32-COMP

Tot Ion:	166	Resp:	372651
Ion Ratio	Lower	Upper	
166	100		
165	99.0	78.8	118.2
167	13.7	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

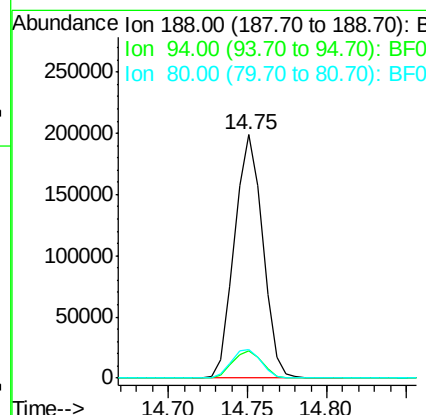
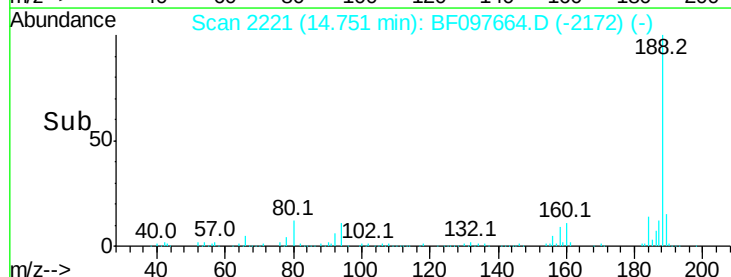
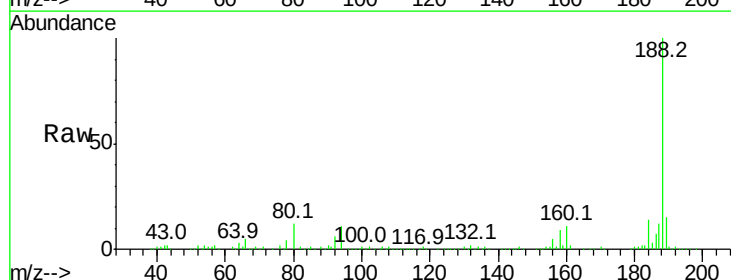
RT: 14.75 min Scan# 2221

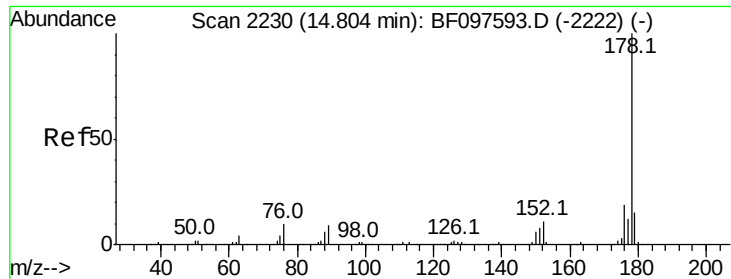
Delta R.T. -0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Tgt Ion:	188	Resp:	245308
Ion Ratio	Lower	Upper	
188	100		
94	11.4	9.4	14.2
80	11.8	10.2	15.2





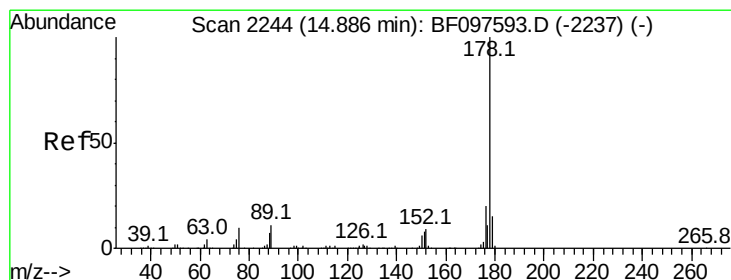
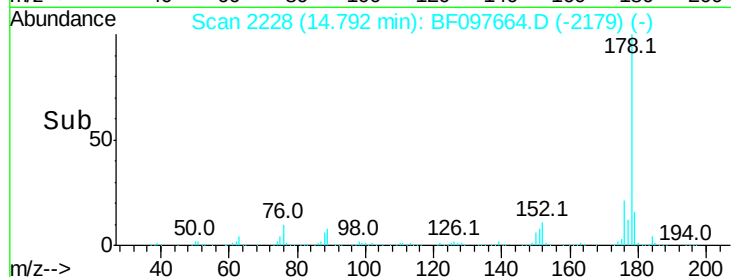
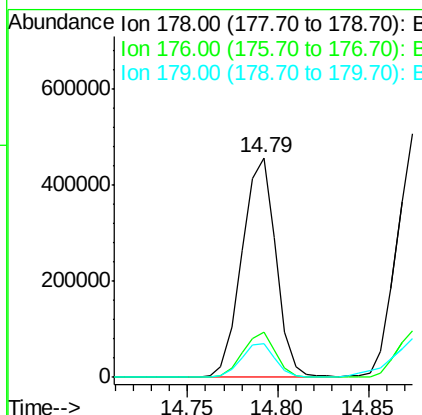
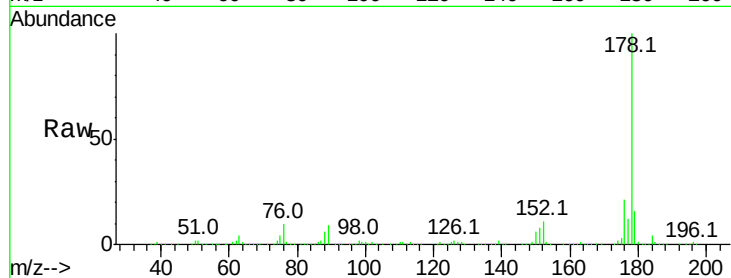
#70
Phenanthrene
Concen: 42.041 ng
RT: 14.79 min Scan# 2228
Delta R.T. -0.01 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Instrument :
BNA_F
ClientSampleId :
SB-32-COMP

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.6	16.2	24.4
179	15.7	12.6	19.0

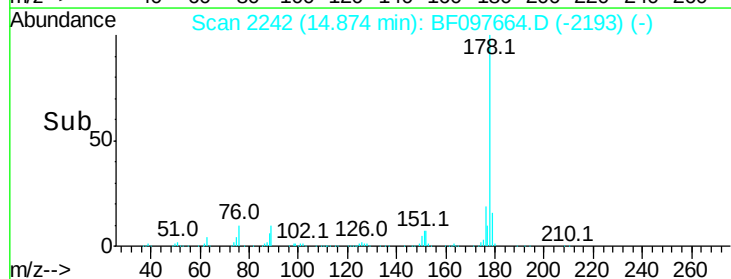
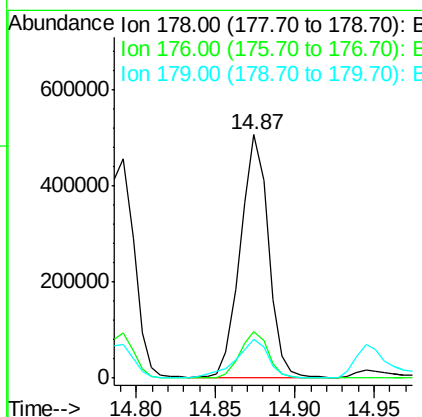
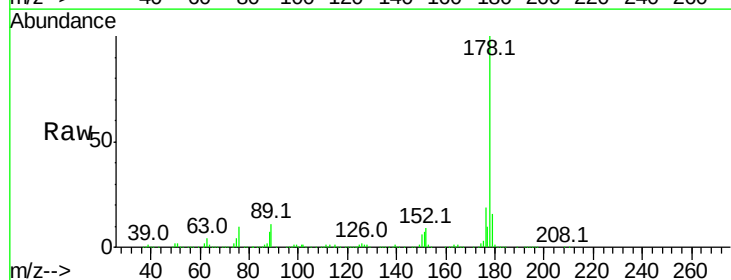
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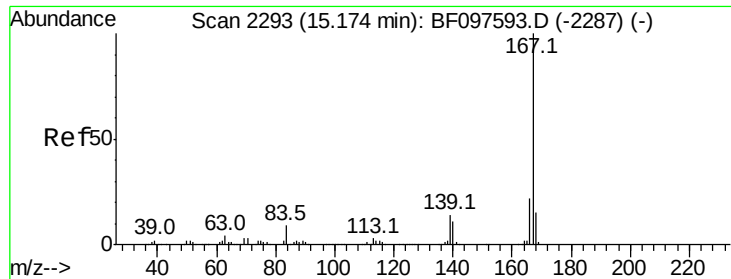
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#71
Anthracene
Concen: 42.983 ng
RT: 14.87 min Scan# 2242
Delta R.T. -0.01 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	16.1	12.7	19.1





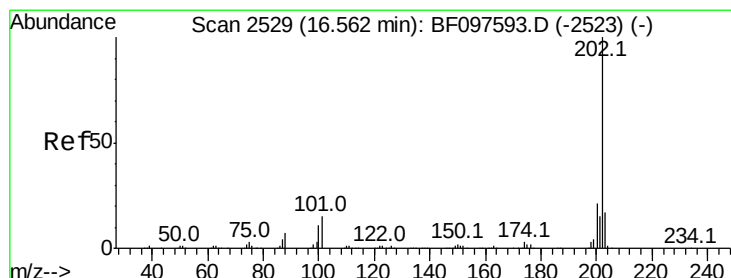
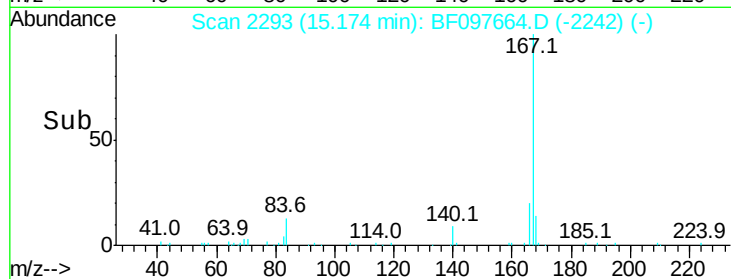
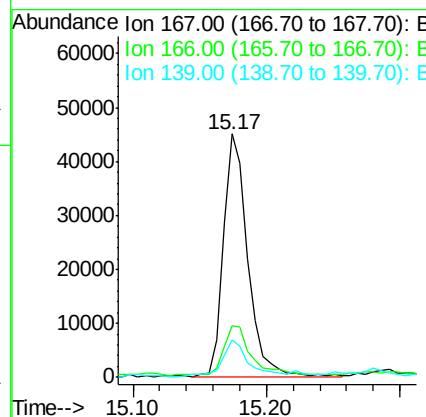
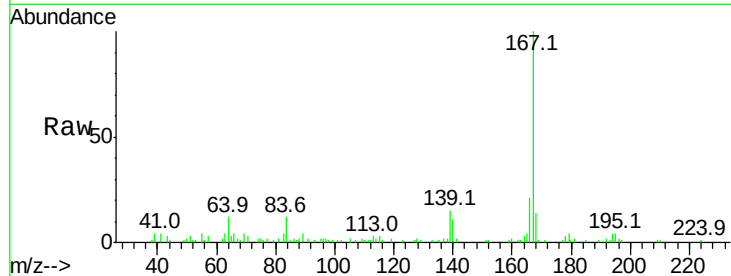
#72
 Carbazole
 Concen: 4.261 ng
 RT: 15.17 min Scan# 2293
 Delta R.T. -0.00 min
 Lab File: BF097664.D
 Acq: 13 Aug 2017 9:30

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMP

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.4	18.1	27.1
139	15.2	11.7	17.5

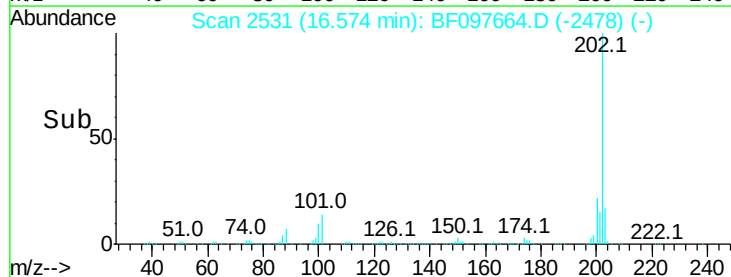
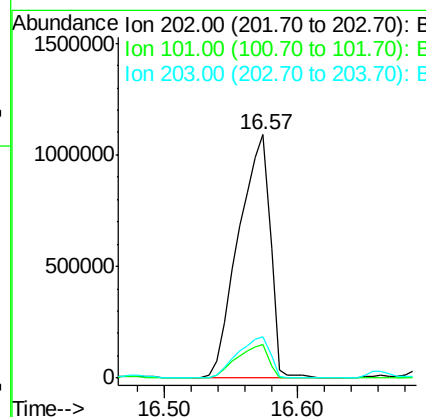
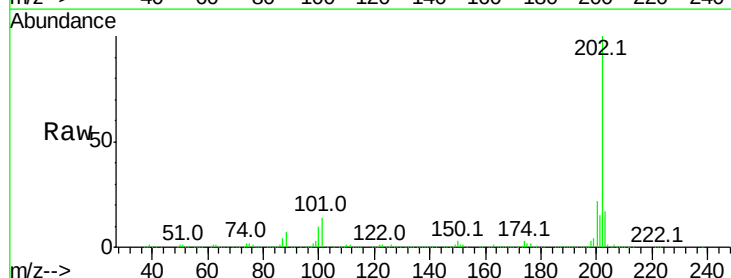
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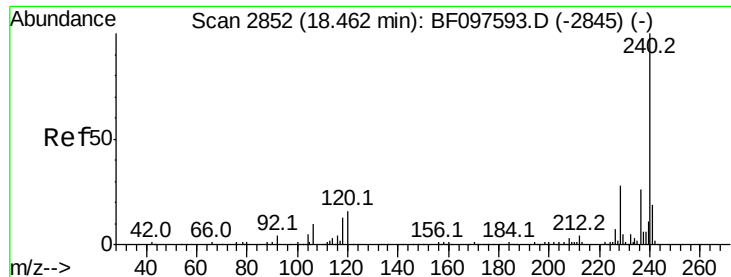
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#74
 Fluoranthene
 Concen: 140.462 ng
 RT: 16.57 min Scan# 2531
 Delta R.T. 0.01 min
 Lab File: BF097664.D
 Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	33.2
203	17.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 18.46 min Scan# 2852

Delta R.T. -0.00 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Instrument :

BNA_F

ClientSampleId :

SB-32-COMP

Tot Ion:240 Resp: 172658

Ion Ratio Lower Upper

240 100

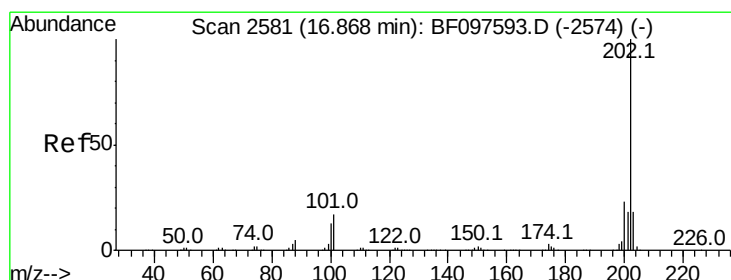
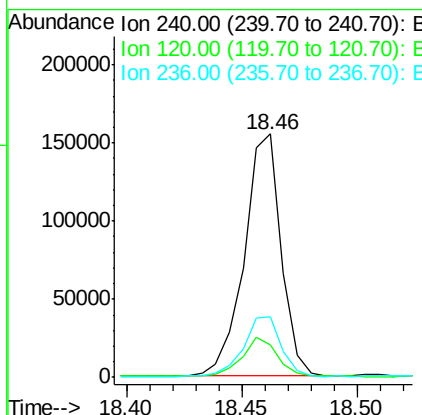
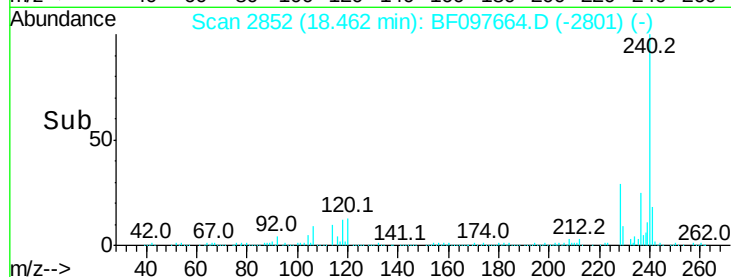
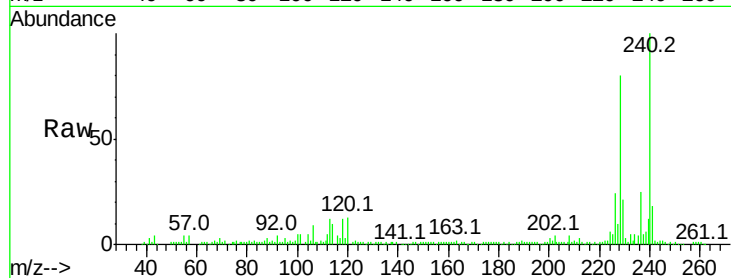
120 13.1 5.8 8.8#

236 24.8 20.5 30.7

Manual Integrations
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#77

Pyrene

Concen: 114.515 ng

RT: 16.87 min Scan# 2582

Delta R.T. 0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

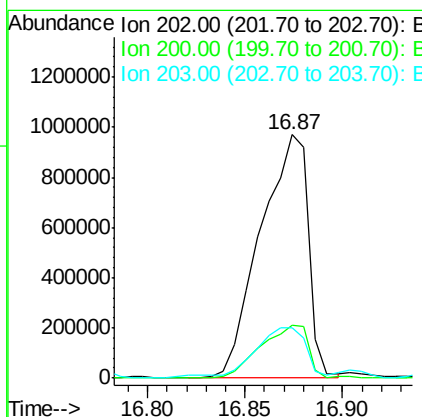
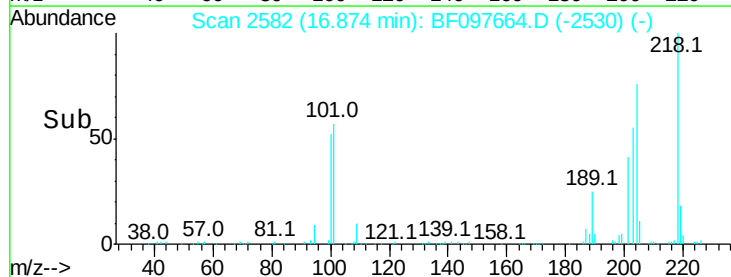
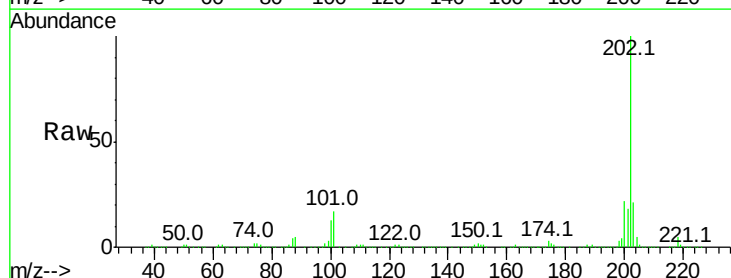
Tgt Ion:202 Resp: 1635054

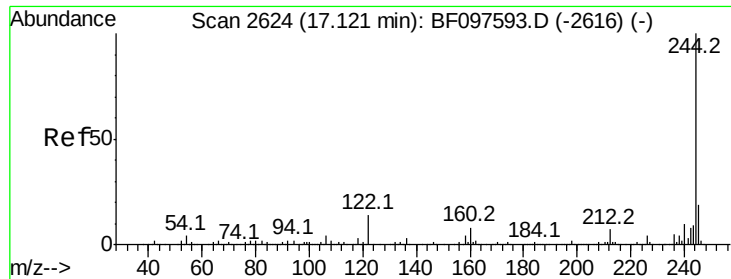
Ion Ratio Lower Upper

202 100

200 21.7 17.6 26.4

203 20.8 14.4 21.6





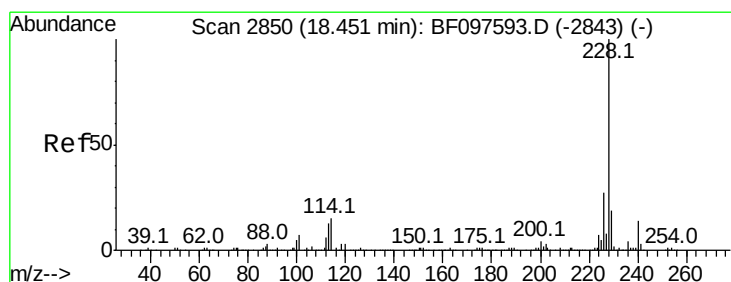
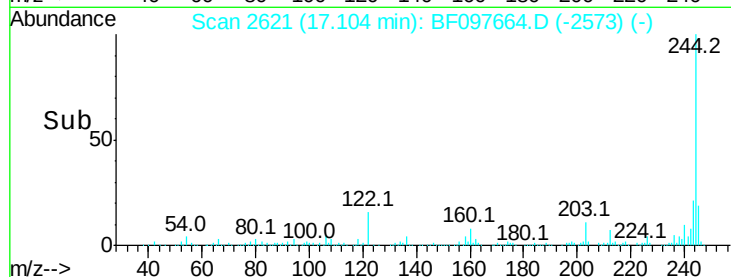
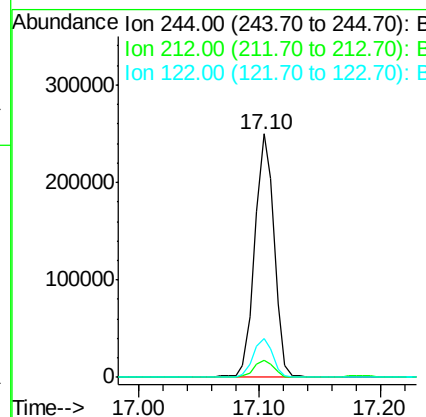
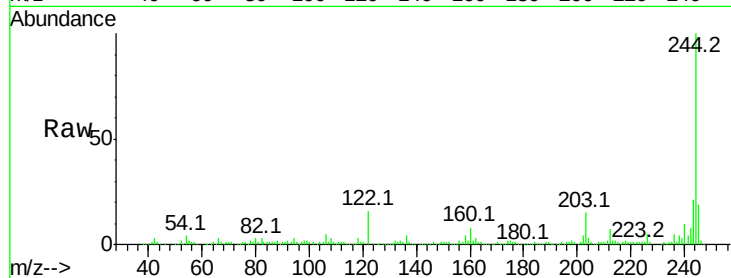
#78
 Terphenyl-d14
 Concen: 33.745 ng
 RT: 17.10 min Scan# 2621
 Delta R.T. -0.02 min
 Lab File: BF097664.D
 Acq: 13 Aug 2017 9:30

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMP

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	7.1	6.0	9.0
122	15.7	10.3	15.5

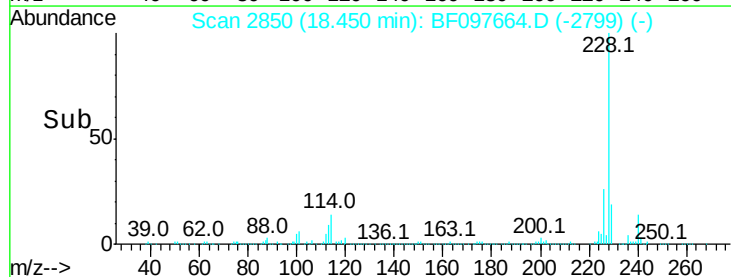
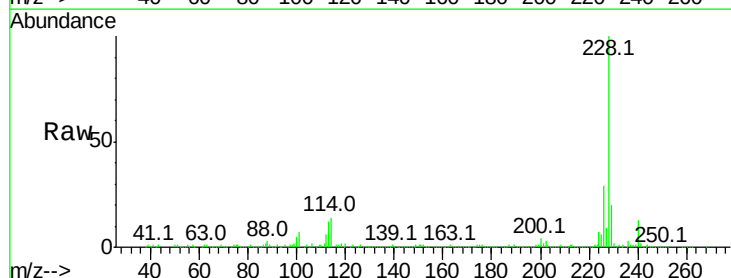
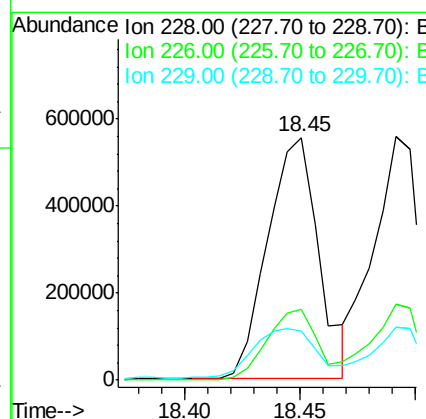
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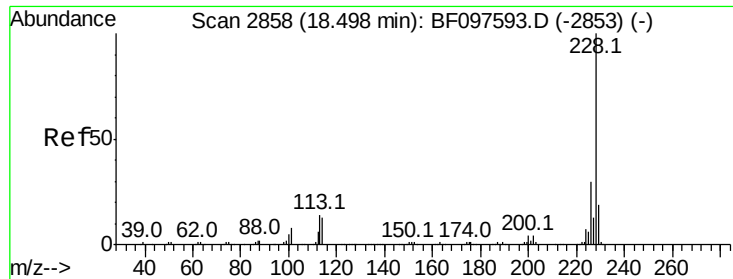
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#80
 Benzo(a)anthracene
 Concen: 84.628 ng
 RT: 18.45 min Scan# 2850
 Delta R.T. -0.00 min
 Lab File: BF097664.D
 Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	29.0	22.6	33.8
229	20.0	16.3	24.5





#82

Chrysene

Concen: 74.869 ng

RT: 18.49 min Scan# 2857

Delta R.T. -0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Instrument :

BNA_F

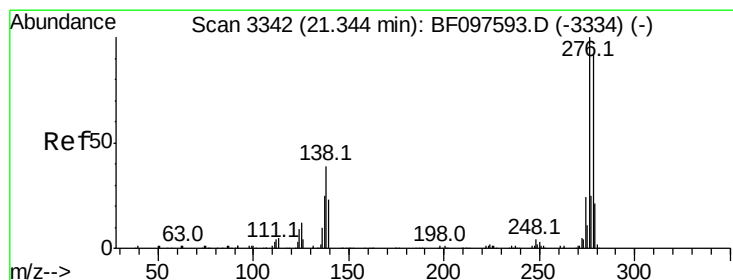
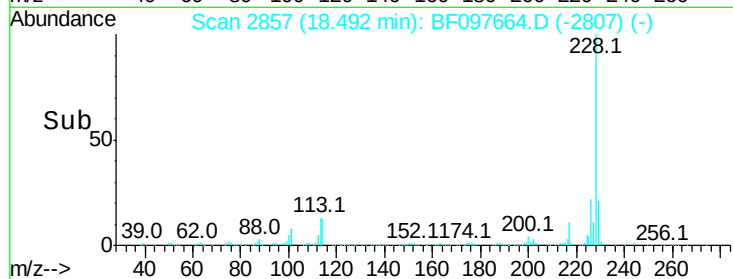
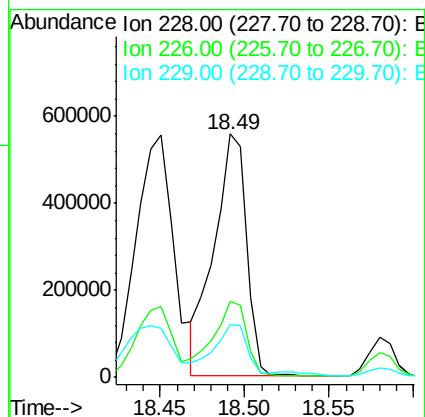
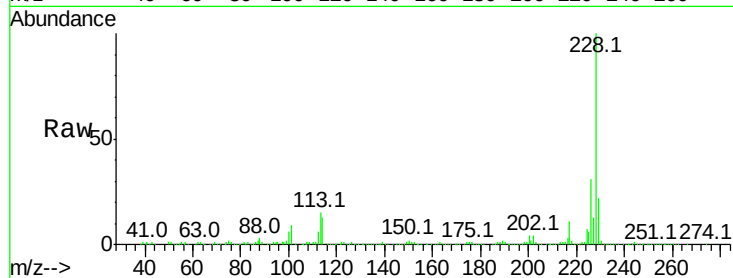
ClientSampleId :

SB-32-COMP

Tot Ion:	228	Resp:	750936
Ion Ratio	Lower	Upper	
228	100		
226	31.1	24.9	37.3
229	21.6	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 39.438 ng

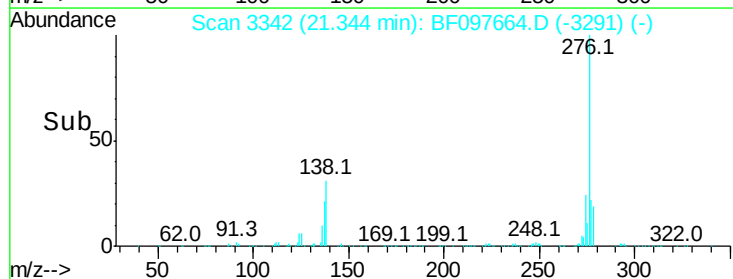
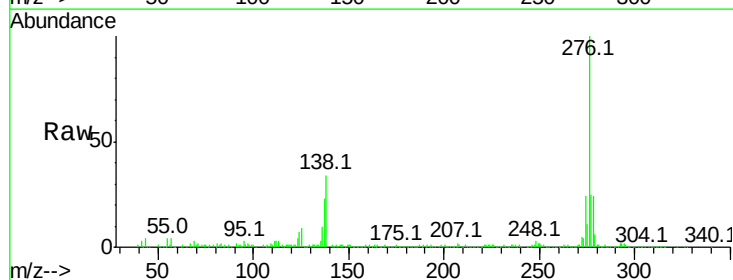
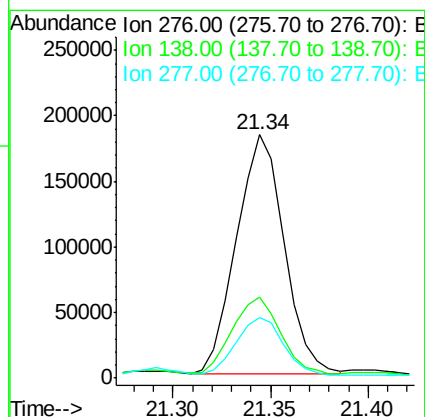
RT: 21.34 min Scan# 3342

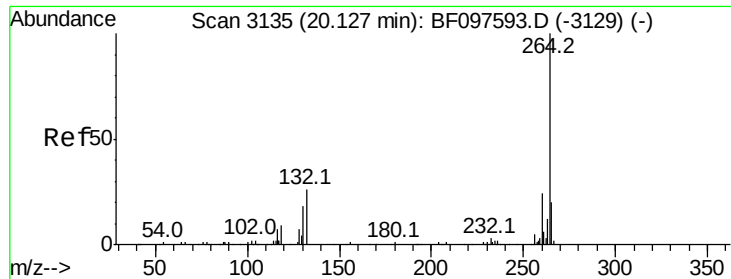
Delta R.T. -0.00 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Tgt Ion:	276	Resp:	307660
Ion Ratio	Lower	Upper	
276	100		
138	34.0	27.8	41.6
277	25.4	20.2	30.4





#86

Pervlene-d12

Concen: 20.000 ng

RT: 20.13 min Scan# 3135

Delta R.T. -0.00 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Instrument :

BNA_F

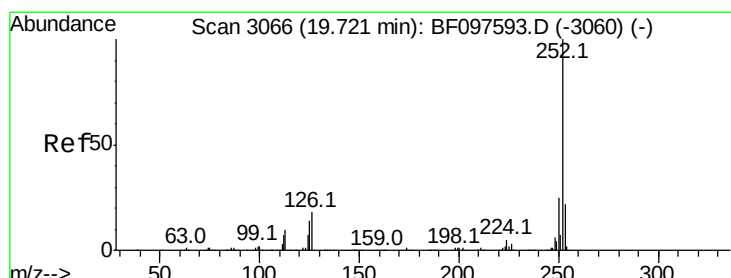
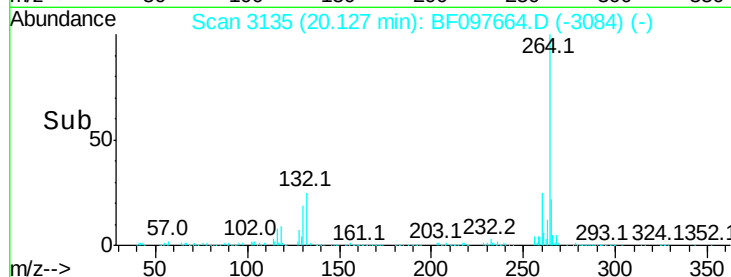
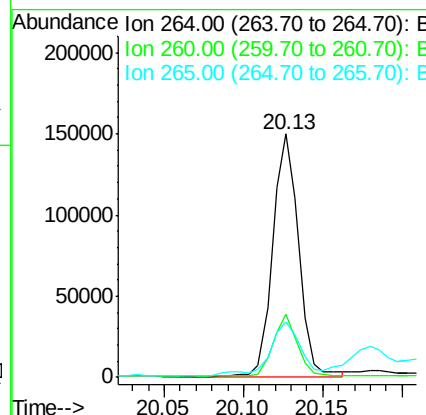
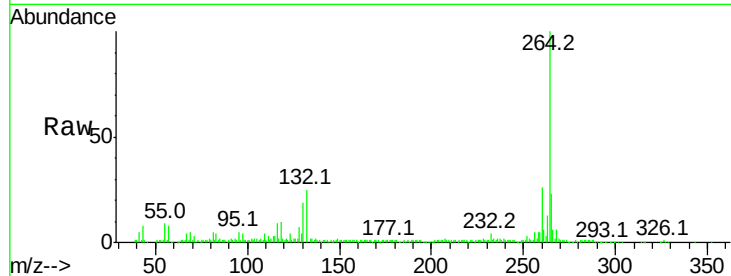
ClientSampleId :

SB-32-COMP

Tot Ion:	264	Resp:	170380
Ion Ratio		Lower	Upper
264	100		
260	25.8	19.5	29.3
265	22.7	17.2	25.8

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#87

Benzo(b)fluoranthene

Concen: 86.804 ng m

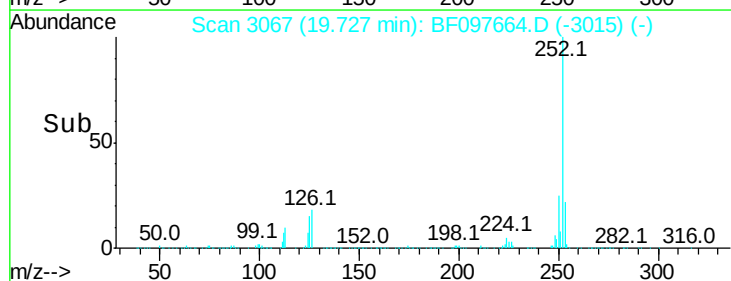
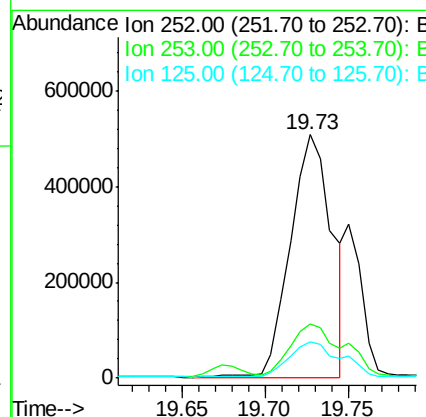
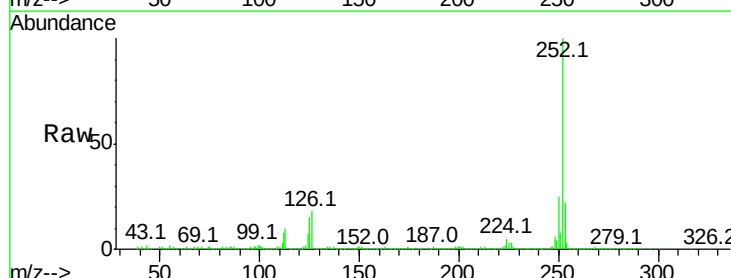
RT: 19.73 min Scan# 3067

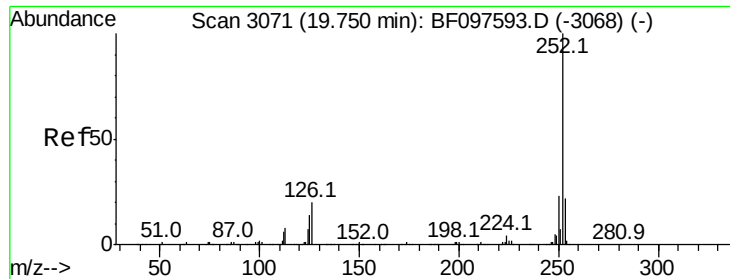
Delta R.T. 0.01 min

Lab File: BF097664.D

Acq: 13 Aug 2017 9:30

Tgt Ion:	252	Resp:	888092
Ion Ratio		Lower	Upper
252	100		
253	22.1	18.1	27.1
125	15.1	9.8	14.8#





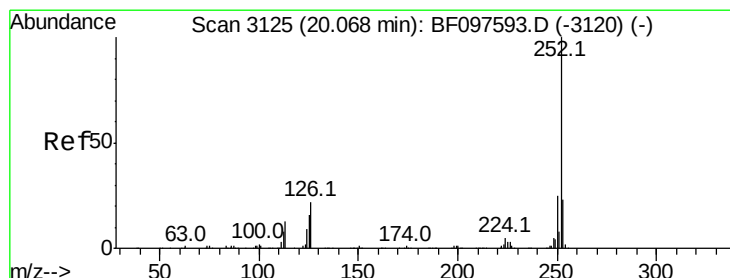
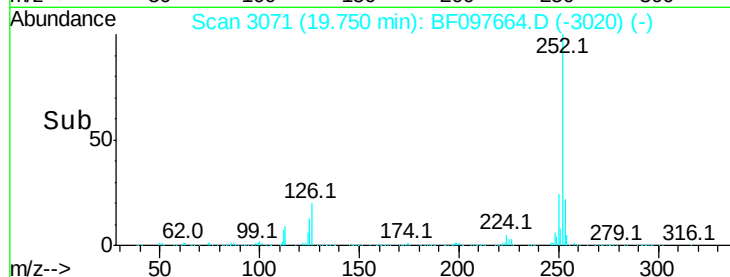
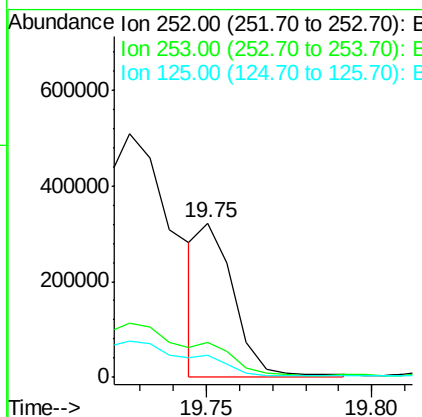
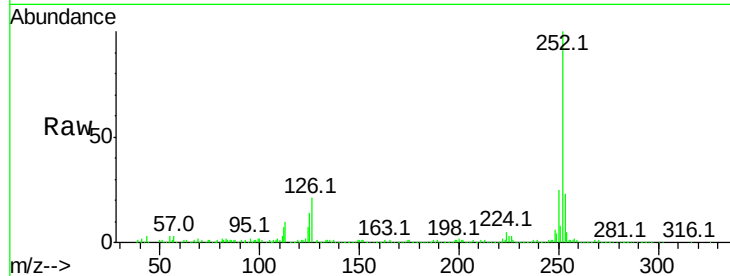
#88
Benzo(k)fluoranthene
Concen: 23.003 ng m
RT: 19.75 min Scan# 3071
Delta R.T. -0.00 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Instrument :
BNA_F
ClientSampleId :
SB-32-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.4	27.6
125	14.1	13.1	19.7

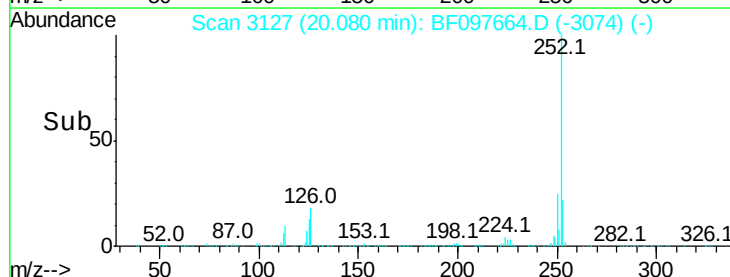
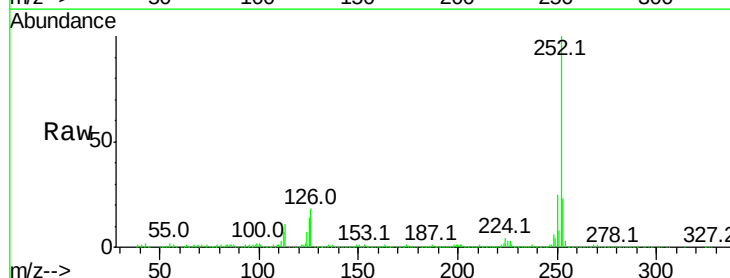
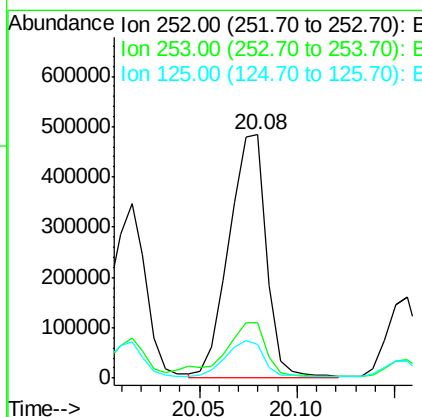
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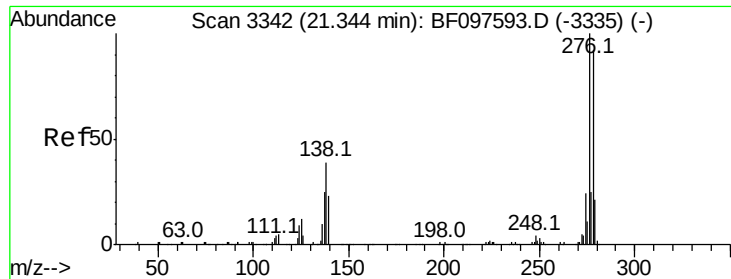
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#89
Benzo(a)pyrene
Concen: 67.959 ng
RT: 20.08 min Scan# 3127
Delta R.T. 0.01 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	13.6	11.0	16.4





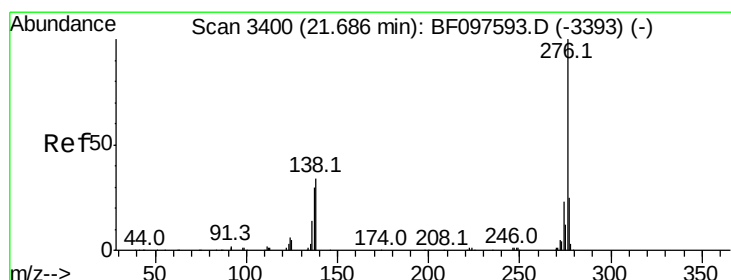
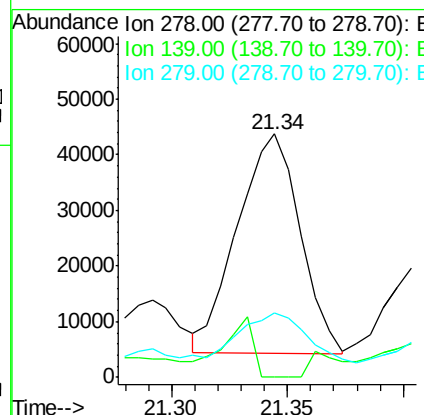
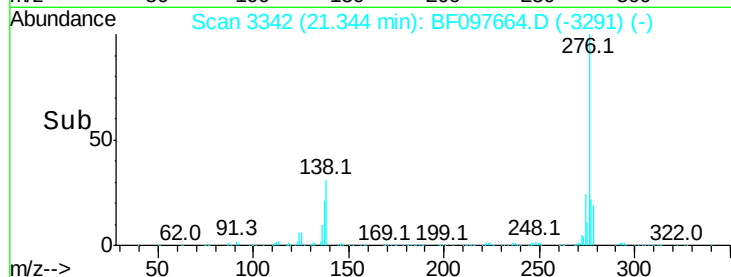
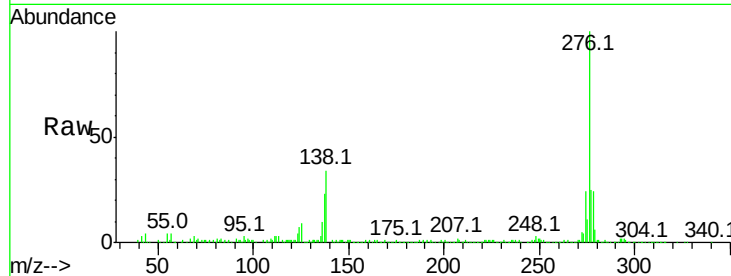
#90
Dibenzo(a,h)anthracene
Concen: 11.061 ng/mL
RT: 21.34 min Scan# 3342
Delta R.T. 0.00 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Instrument :
BNA_F
ClientSampleId :
SB-32-COMP

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	26.7	19.3	28.9

Manual Integrations
APPROVED

sohil
8/14/2017 7:08:03 PM



#91
Benzo(g,h,i)perylene
Concen: 40.769 ng/mL
RT: 21.70 min Scan# 3402
Delta R.T. 0.01 min
Lab File: BF097664.D
Acq: 13 Aug 2017 9:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	28.0
138	34.0	25.4	38.0

