

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
 Data File : BF098568.D
 Acq On : 15 Sep 2017 14:38
 Operator : SJ/JU
 Sample : I5188-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RL-6-0-11

Manual Integrations
 APPROVED

Sohil
 9/18/2017 3:33:35 PM

Quant Time: Sep 15 15:18:21 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 15 13:23:10 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	136749	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	544854	20.00	ng	0.00
38) Acenaphthene-d10	9.68	164	219686	20.00	ng	0.00
63) Phenanthrene-d10	11.16	188	331279	20.00	ng	0.00
75) Chrysene-d12	13.80	240	261037	20.00	ng	0.00
86) Perylene-d12	15.20	264	279804	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	988487	106.87	ng	0.02
7) Phenol-d6	6.31	99	1216600	103.60	ng	0.01
23) Nitrobenzene-d5	7.22	82	740310	75.75	ng	0.00
41) 2,4,6-Tribromophenol	10.47	330	157592	107.48	ng	0.00
44) 2-Fluorobiphenyl	9.00	172	1194487	92.16	ng	0.00
78) Terphenyl-d14	12.75	244	689486	57.01	ng	0.00
Target Compounds						
10) Phenol	6.32	94	33572	2.461	ng	Qvalue # 78
31) Naphthalene	7.95	128	88019	3.268	ng	97
49) Dimethylphthalate	9.40	163	155029	9.116	ng	98
51) Acenaphthene	9.71	154	50691	3.819	ng	98
57) Fluorene	10.23	166	64662	4.468	ng	99
70) Phenanthrene	11.19	178	657820	37.457	ng	99
71) Anthracene	11.24	178	209959	11.644	ng	99
72) Carbazole	11.40	167	37247	2.217	ng	99
74) Fluoranthene	12.38	202	1036857	58.976	ng	96
77) Pyrene	12.60	202	888822	43.163	ng	99
80) Benzo(a)anthracene	13.79	228	544709	35.592	ng	100
82) Chrysene	13.83	228	425156	27.483	ng	97
85) Indeno(1,2,3-cd)pyrene	16.54	276	190652	17.566	ng	# 90
87) Benzo(b)fluoranthene	14.82	252	585099m	33.257	ng	
88) Benzo(k)fluoranthene	14.83	252	213265m	12.985	ng	
89) Benzo(a)pyrene	15.15	252	413279	26.368	ng	99
90) Dibenzo(a,h)anthracene	16.54	278	53713m	4.711	ng	
91) Benzo(g,h,i)perylene	16.95	276	179234	15.629	ng	94

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

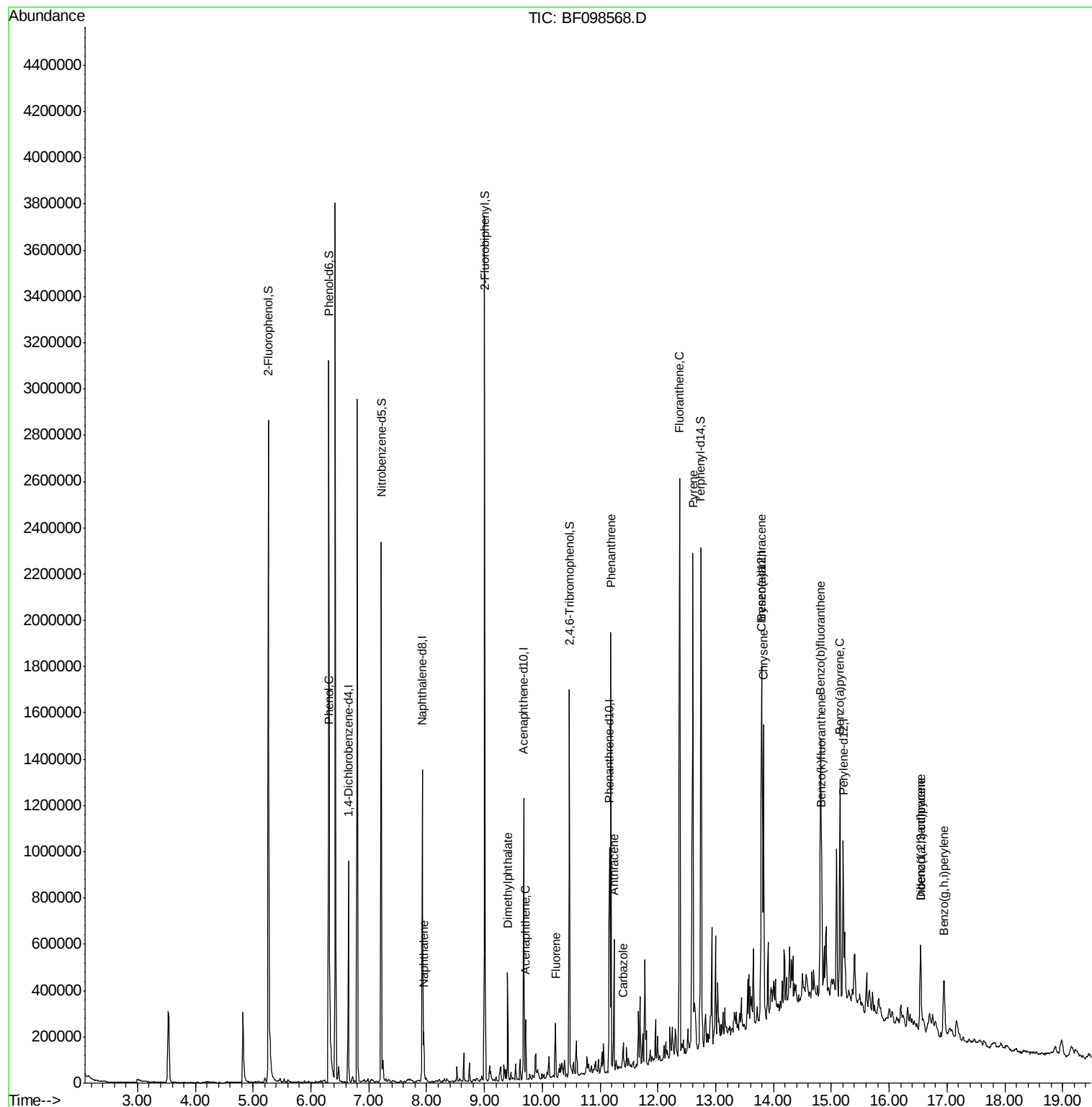
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098568.D
Acq On : 15 Sep 2017 14:38
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Sample : I5188-01
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ALS Vial : 12 Sample Multiplier: 1

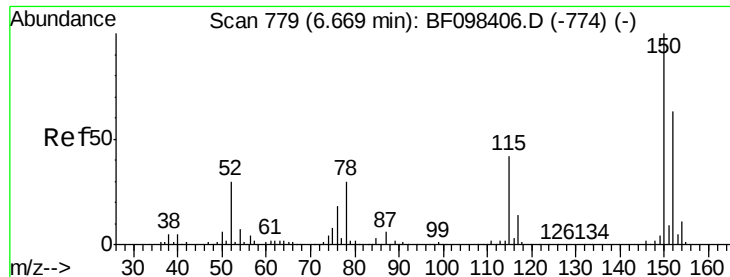
Instrument :
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RL-6-0-11

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Quant Time: Sep 15 15:18:21 2017
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#1

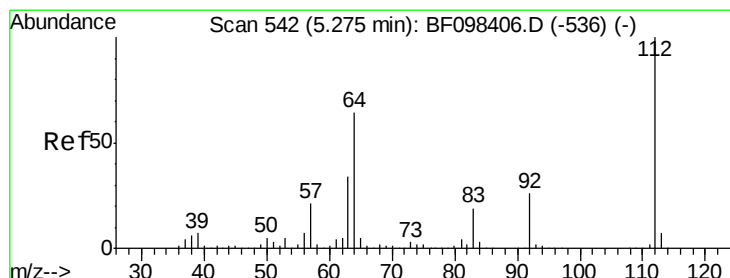
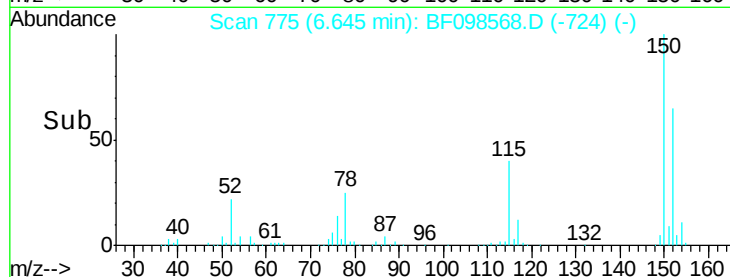
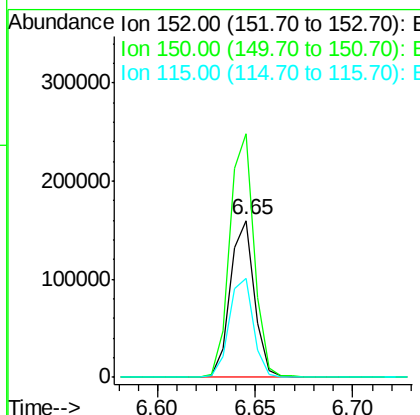
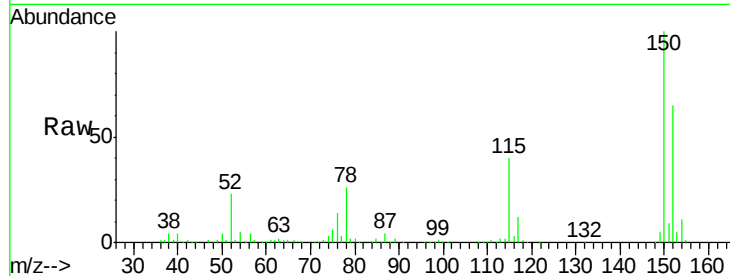
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 775
Delta R.T. 0.00 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Instrument :
BNA_F
ClientSampleId :
RL-6-0-11

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	136749		
150	155.0	126.2	189.2	
115	62.7	52.2	78.2	

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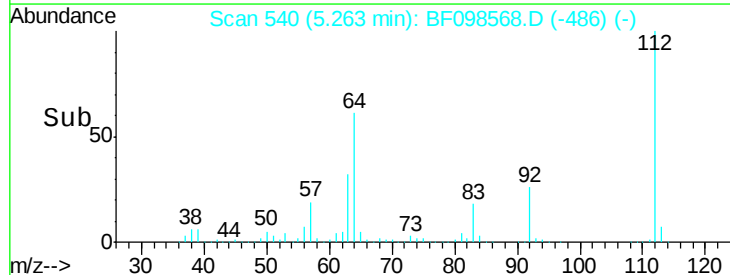
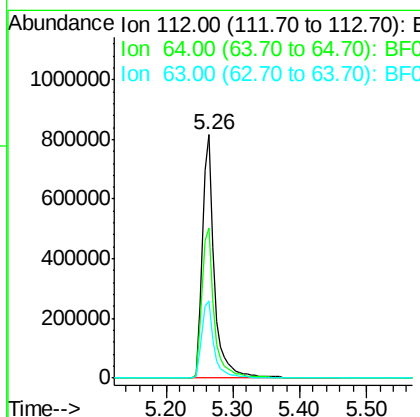
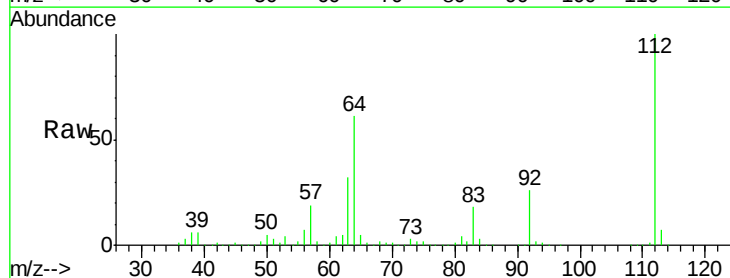
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#5

2-Fluorophenol
Concen: 106.875 ng
RT: 5.26 min Scan# 540
Delta R.T. 0.02 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	988487		
64	61.4	46.0	69.0	
63	32.0	23.4	35.0	





#7

Phenol-d6

Concen: 103.601 ng

RT: 6.31 min Scan# 718

Delta R.T. 0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Instrument :

BNA_F

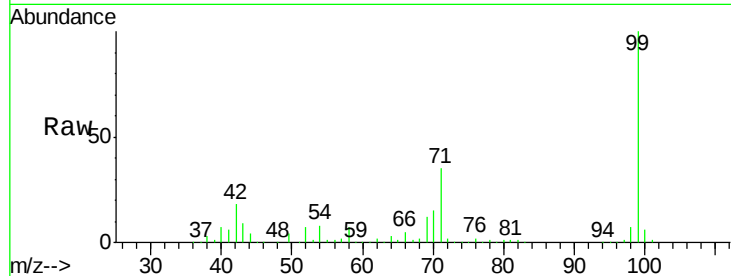
ClientSampled :

RL-6-0-11

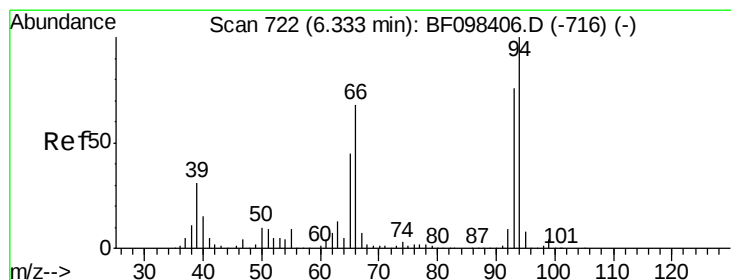
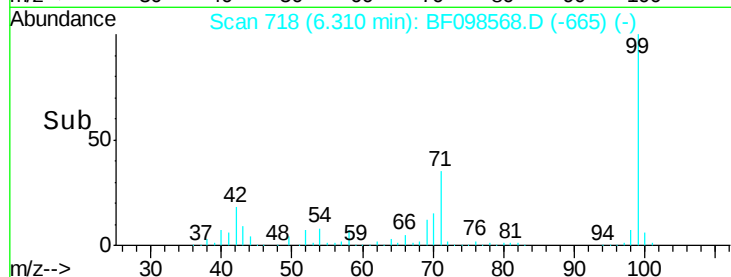
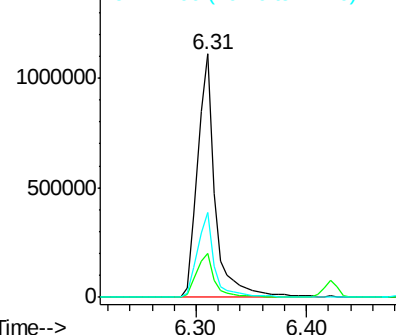
Tgt Ion:	99	Resp:	1216600
Ion	Ratio	Lower	Upper
99	100		
42	18.2	13.5	20.3
71	34.8	24.5	36.7

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.461 ng

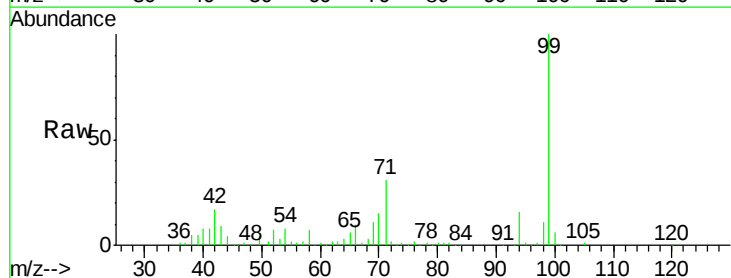
RT: 6.32 min Scan# 720

Delta R.T. 0.01 min

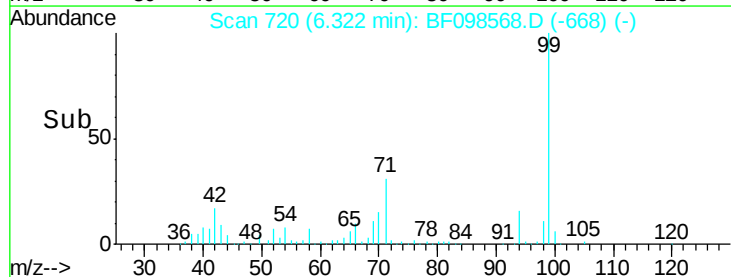
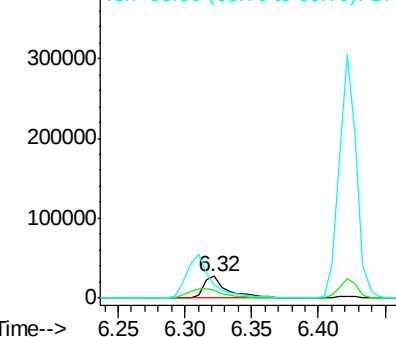
Lab File: BF098568.D

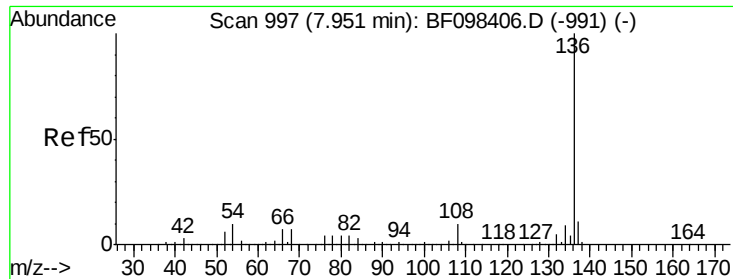
Acq: 15 Sep 2017 14:38

Tgt Ion:	94	Resp:	33572
Ion	Ratio	Lower	Upper
94	100		
65	34.5	9.9	49.9
66	63.3	23.1	63.1#



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Instrument :

BNA_F

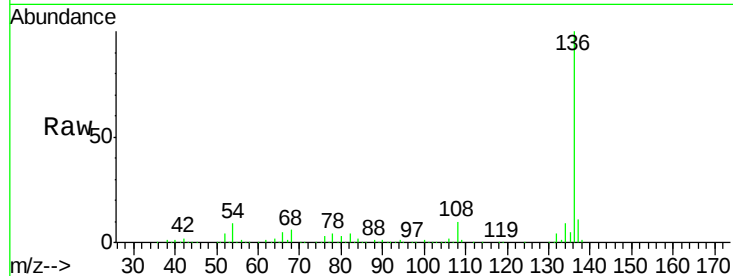
ClientSampled :

RL-6-0-11

Tgt Ion:	136	Resp:	544854
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	9.2	4.9	7.3
68	5.6	4.1	6.1

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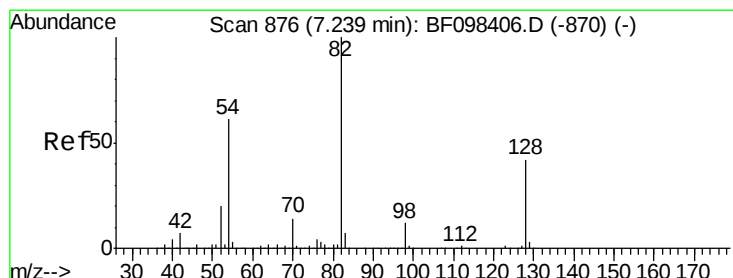
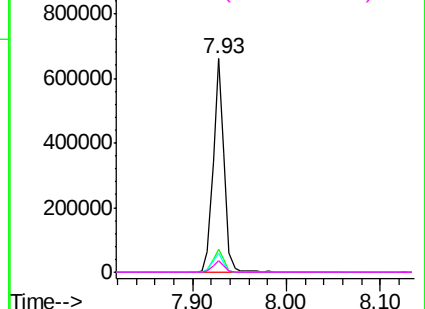
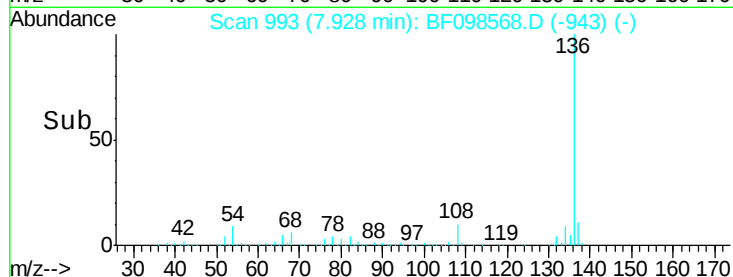


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 75.749 ng

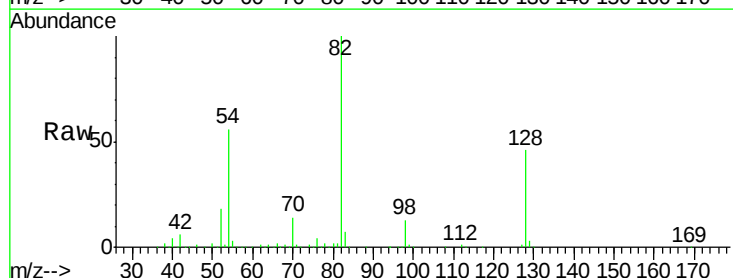
RT: 7.22 min Scan# 872

Delta R.T. -0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

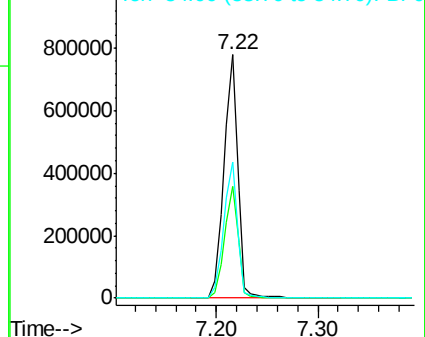
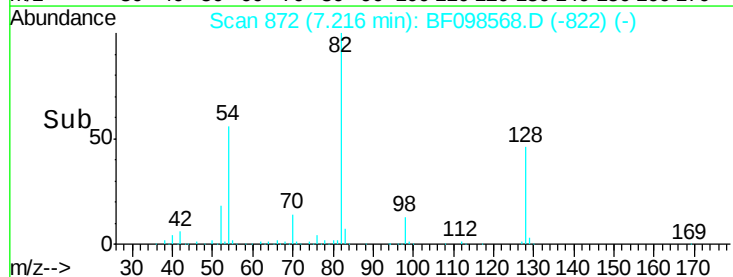
Tgt Ion:	82	Resp:	740310
Ion Ratio	Lower	Upper	
82	100		
128	45.7	34.0	51.0
54	56.0	42.2	63.2

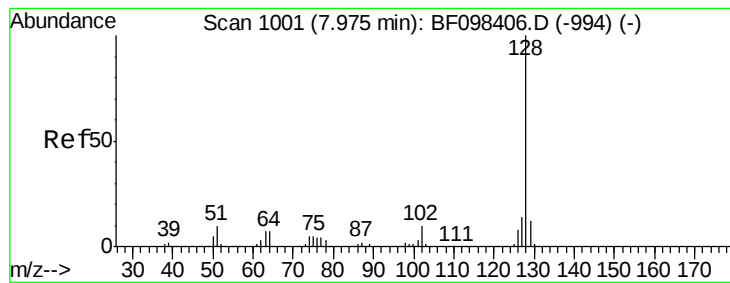


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 3.268 ng

RT: 7.95 min Scan# 997

Delta R.T. 0.00 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Instrument :

BNA_F

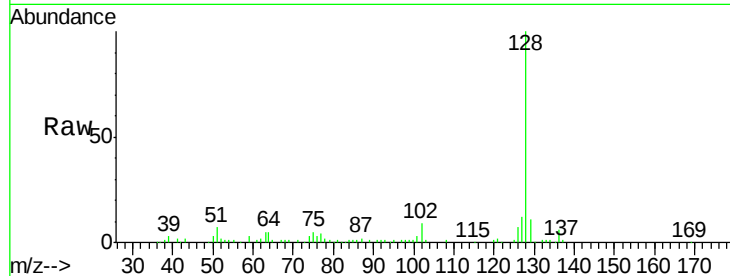
ClientSampleId :

RL-6-0-11

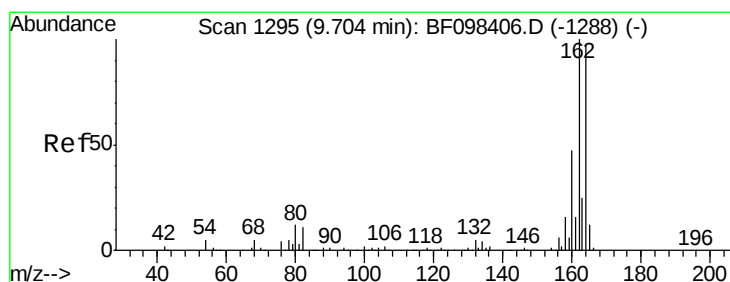
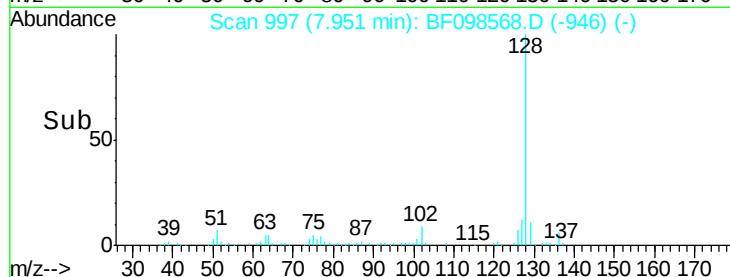
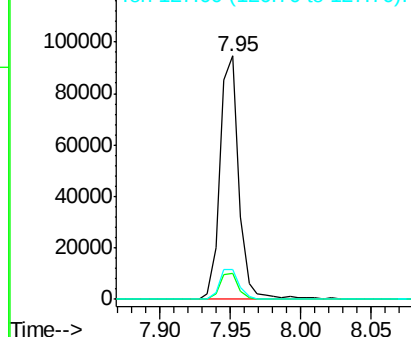
Tgt Ion:	128	Resp:	88019
Ion Ratio	Lower	Upper	
128	100		
129	10.7	9.0	13.6
127	12.2	10.8	16.2

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

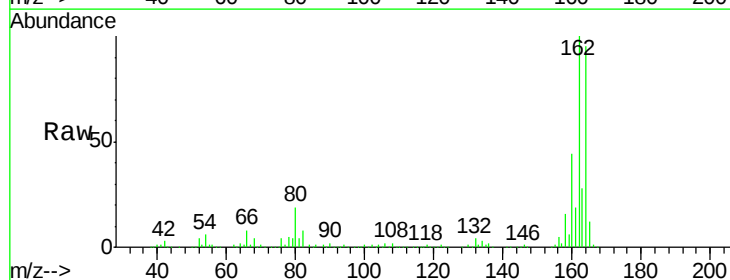
RT: 9.68 min Scan# 1291

Delta R.T. 0.00 min

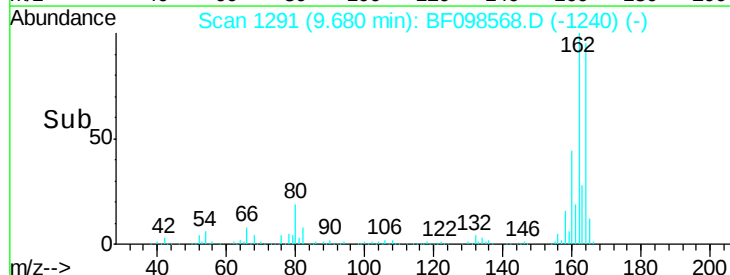
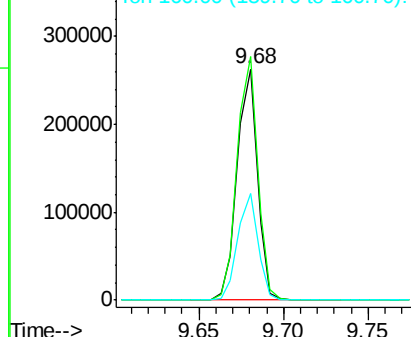
Lab File: BF098568.D

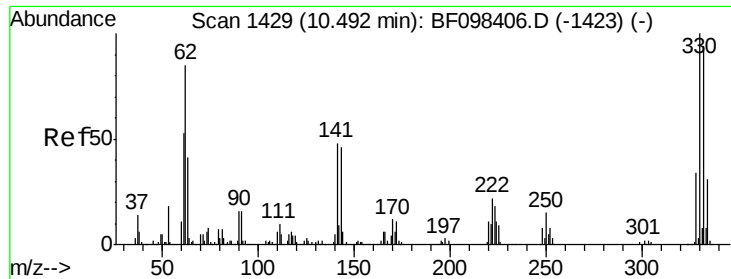
Acq: 15 Sep 2017 14:38

Tgt Ion:	164	Resp:	219686
Ion Ratio	Lower	Upper	
164	100		
162	105.3	82.6	123.8
160	45.9	36.2	54.2



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: 107.481 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Instrument :

BNA_F

ClientSampled :

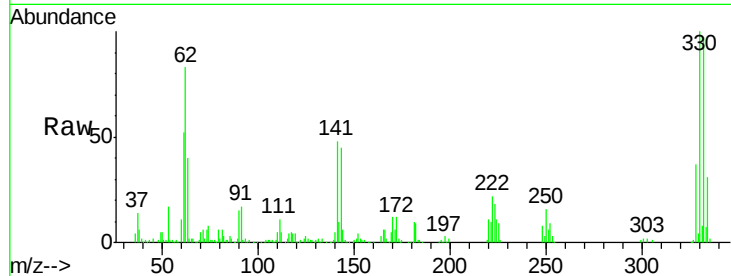
RL-6-0-11

Tgt Ion:	330	Resp:	157592
Ion Ratio	Lower	Upper	
330	100		
332	95.4	76.6	115.0
141	42.9	31.4	47.2

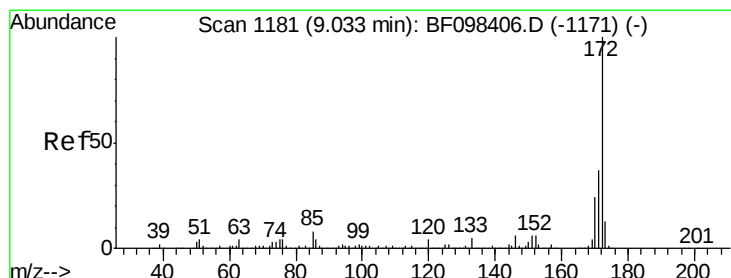
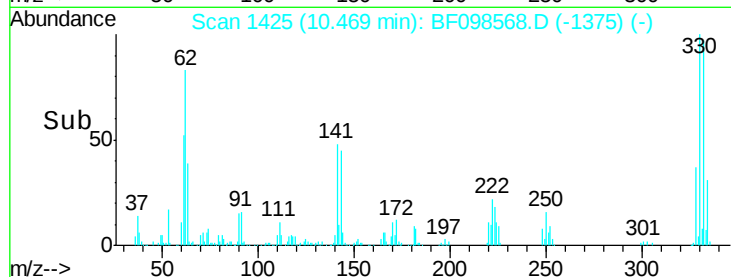
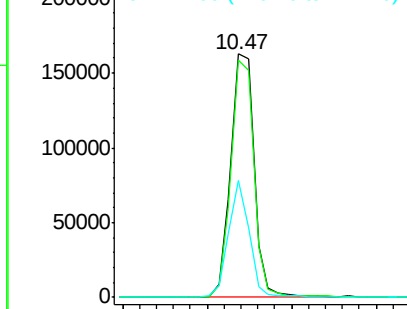
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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 92.157 ng

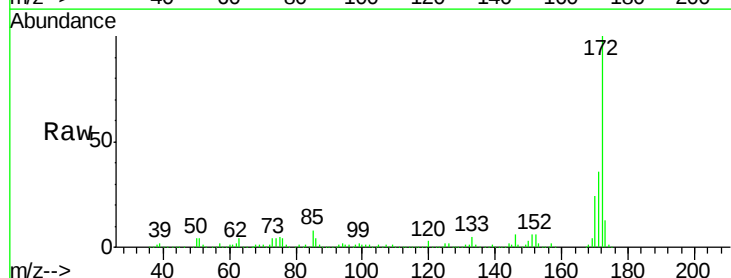
RT: 9.00 min Scan# 1176

Delta R.T. -0.01 min

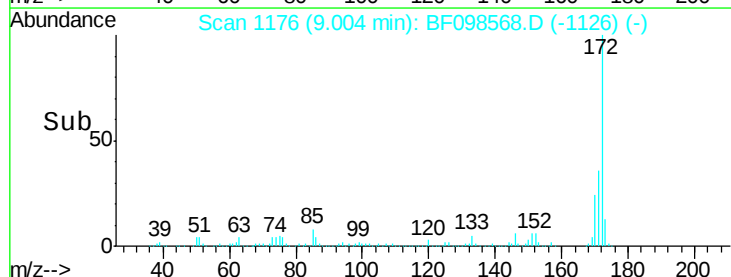
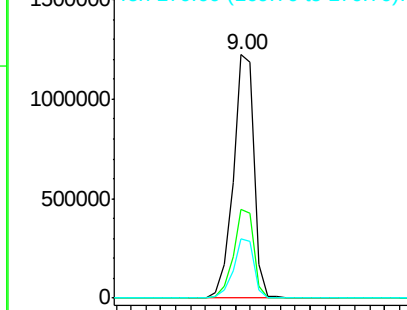
Lab File: BF098568.D

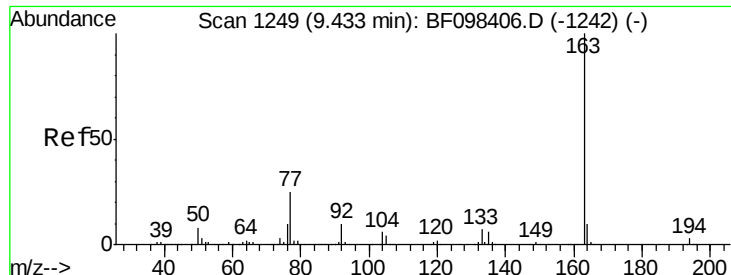
Acq: 15 Sep 2017 14:38

Tgt Ion:	172	Resp:	1194487
Ion Ratio	Lower	Upper	
172	100		
171	36.5	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





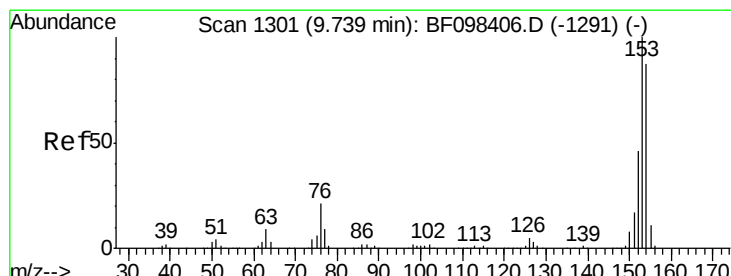
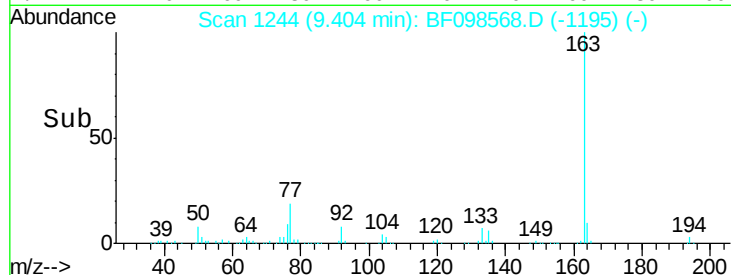
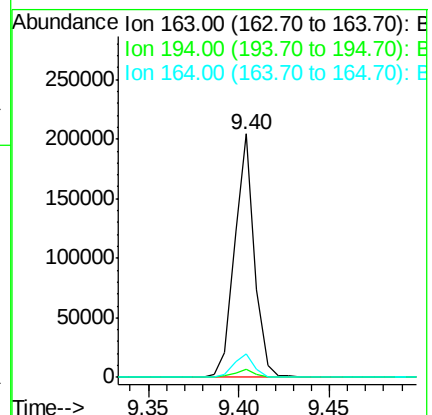
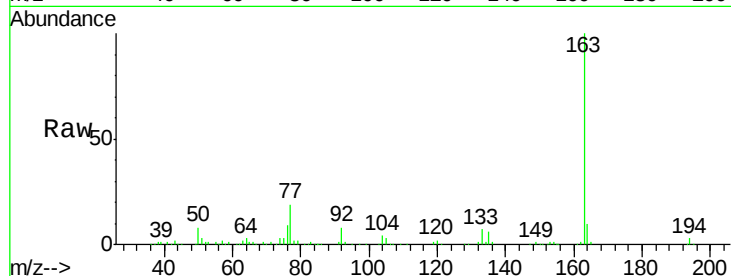
#49
Dimethylphthalate
Concen: 9.116 ng
RT: 9.40 min Scan# 1244
Delta R.T. -0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Instrument :
BNA_F
ClientSampled :
RL-6-0-11

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	3.4	2.6	4.0
164	9.6	8.4	12.6

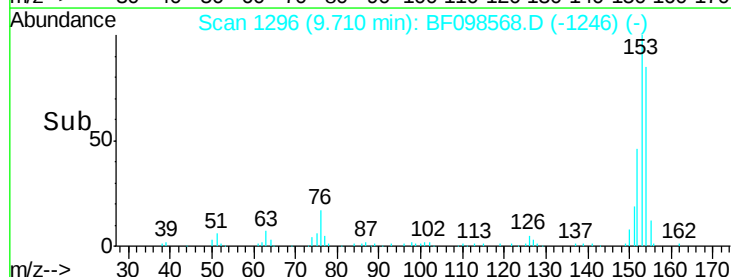
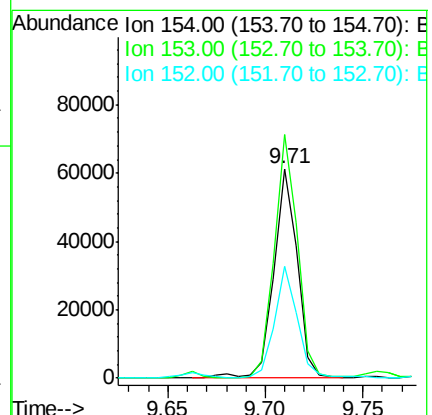
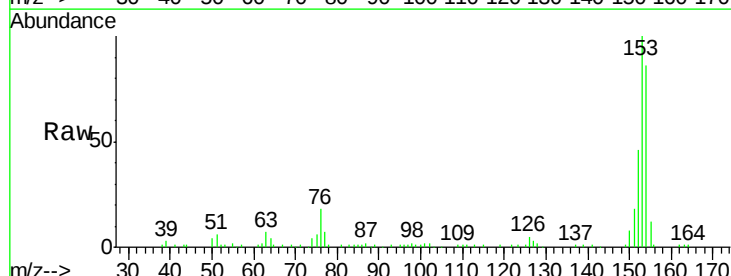
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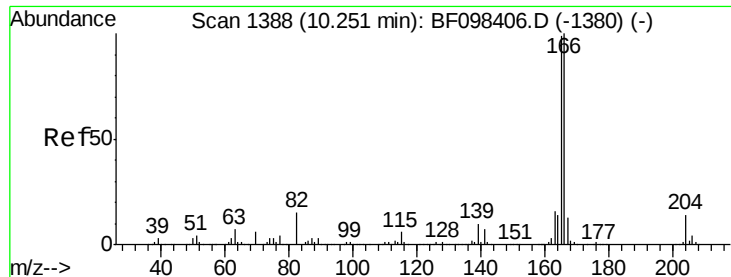
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#51
Acenaphthene
Concen: 3.819 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	116.3	90.5	135.7
152	53.5	43.6	65.4





#57

Fluorene

Concen: 4.468 ng

RT: 10.23 min Scan# 1384

Delta R.T. -0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Instrument :

BNA_F

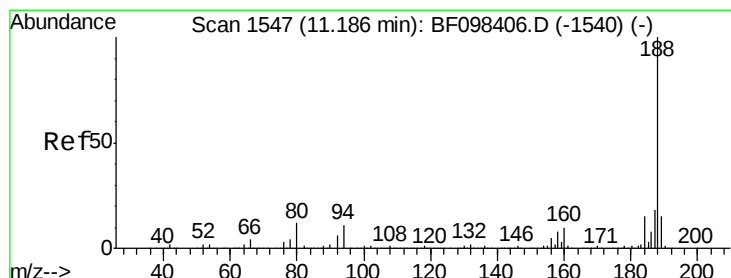
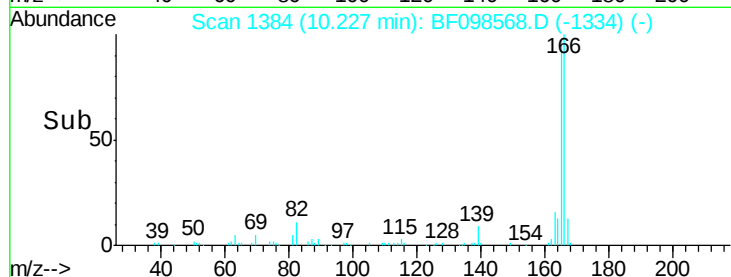
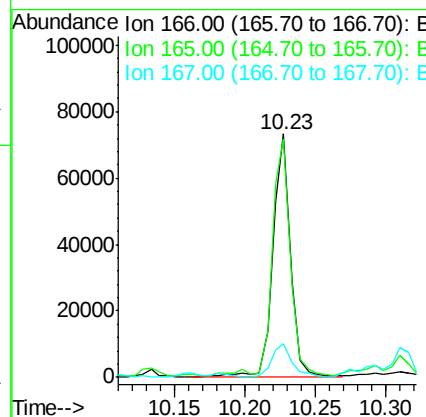
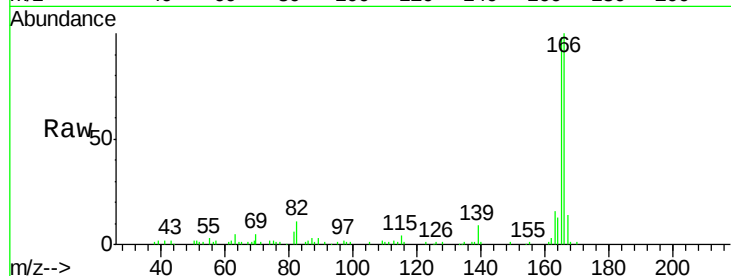
ClientSampled :

RL-6-0-11

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.8	118.2
167	13.9	10.6	16.0

Manual Integrations
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Sohil
9/18/2017 3:33:35 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

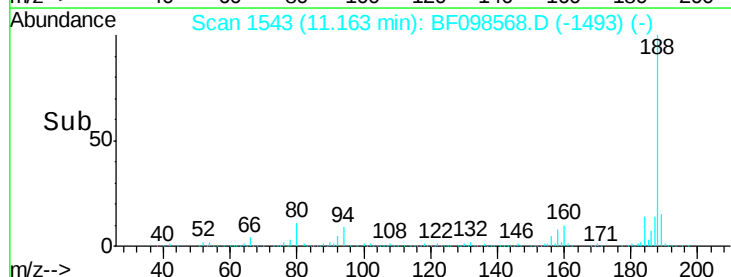
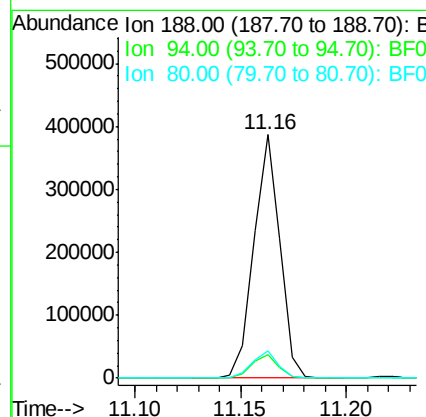
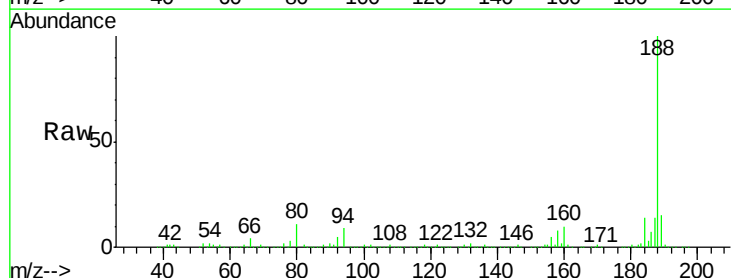
RT: 11.16 min Scan# 1543

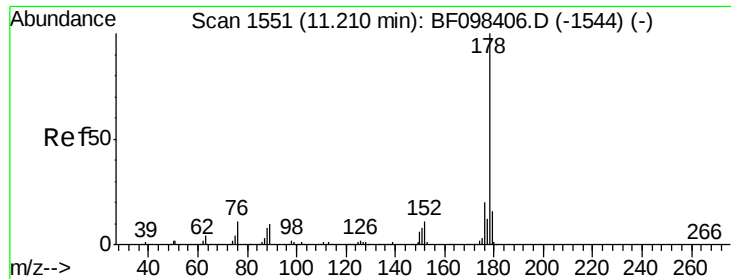
Delta R.T. -0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.5	9.4	14.2
80	11.0	10.2	15.2





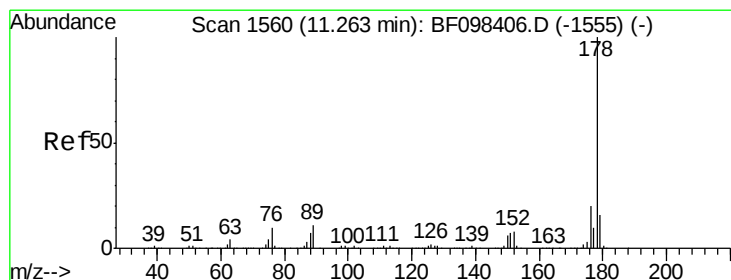
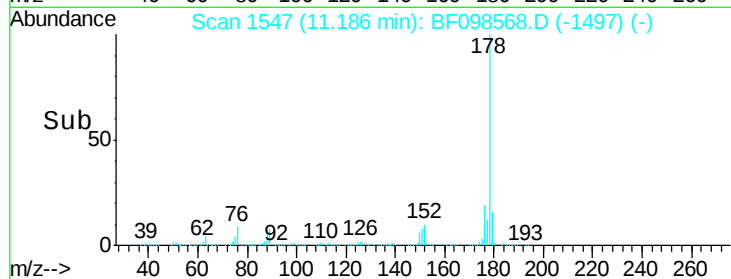
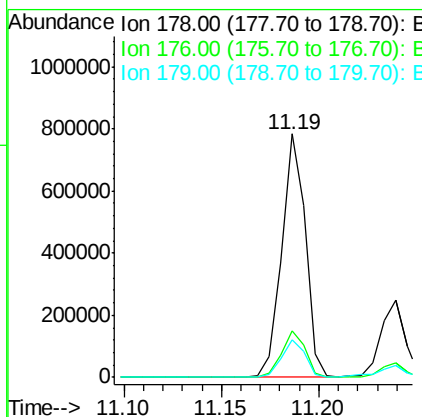
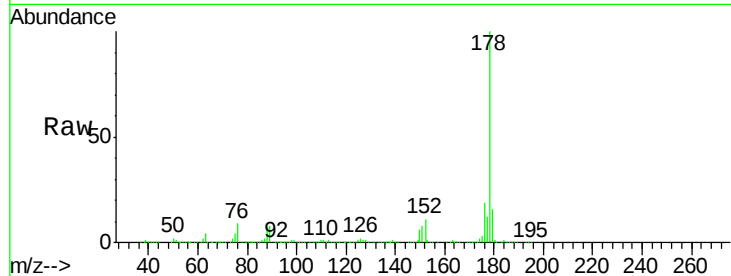
#70
Phenanthrene
Concen: 37.457 ng
RT: 11.19 min Scan# 1547
Delta R.T. -0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Instrument :
BNA_F
ClientSampled :
RL-6-0-11

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.2	24.4
179	15.6	12.6	19.0

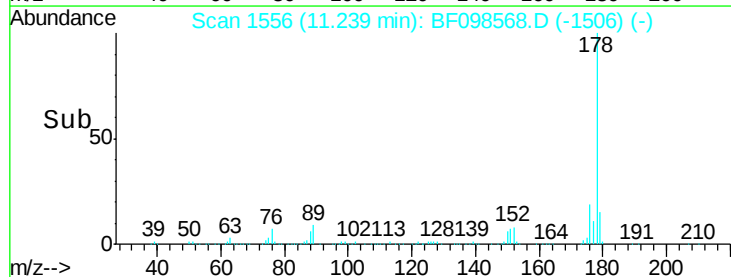
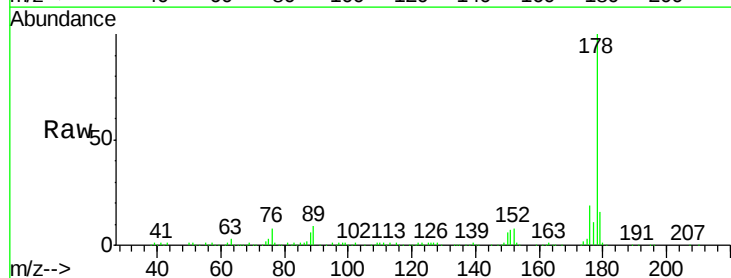
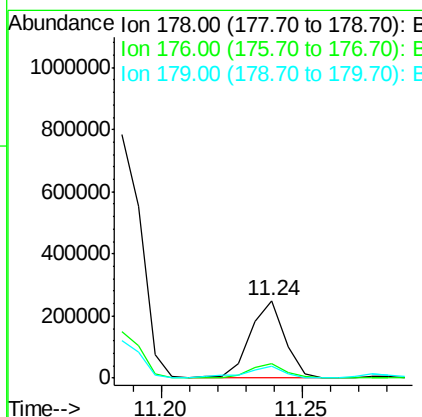
Manual Integrations
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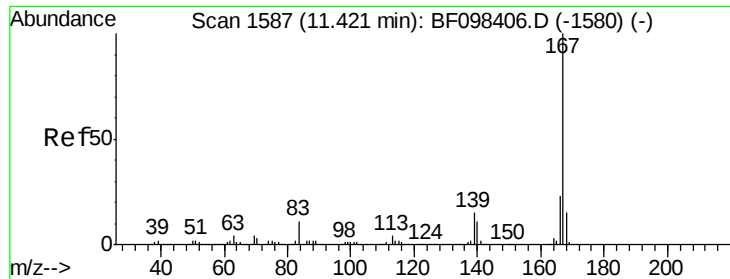
Sohil
9/18/2017 3:33:35 PM



#71
Anthracene
Concen: 11.644 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.7	12.7	19.1





#72

Carbazole

Concen: 2.217 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF098568.D

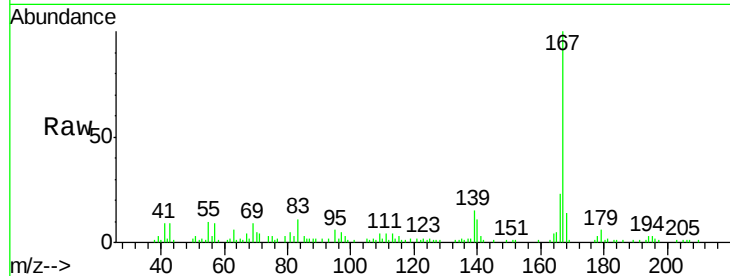
Acq: 15 Sep 2017 14:38

Instrument :

BNA_F

ClientSampled :

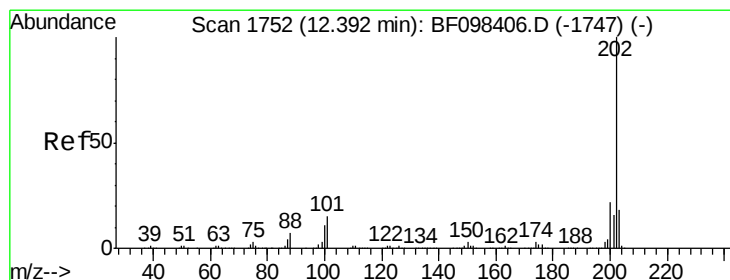
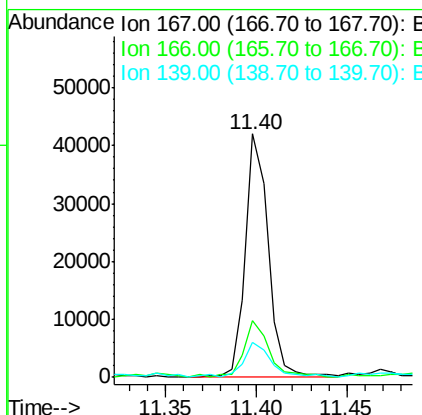
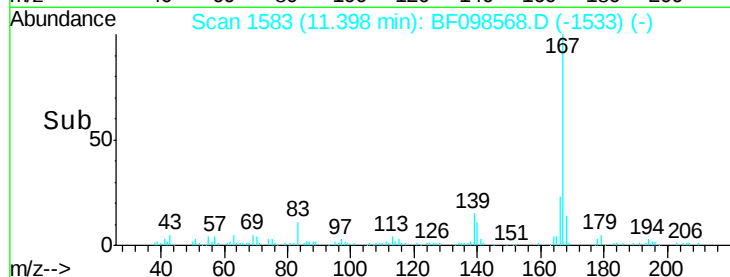
RL-6-0-11



Tgt Ion:	167	Resp:	37247
Ion Ratio	Lower	Upper	
167	100		
166	23.1	18.1	27.1
139	14.6	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 58.976 ng

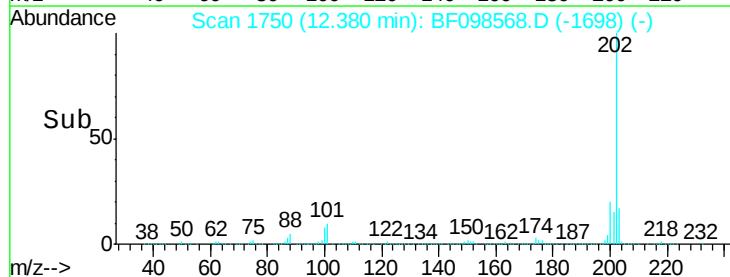
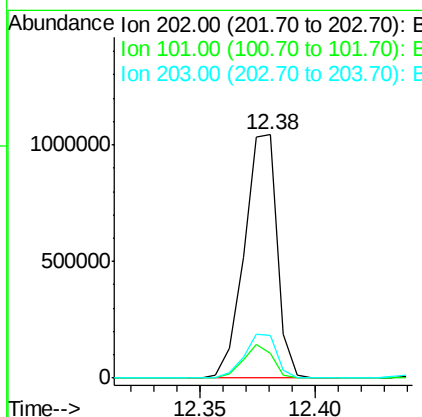
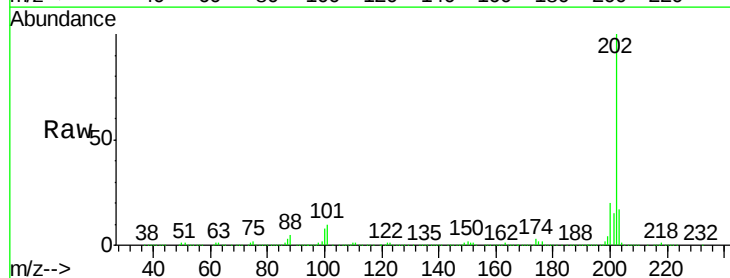
RT: 12.38 min Scan# 1750

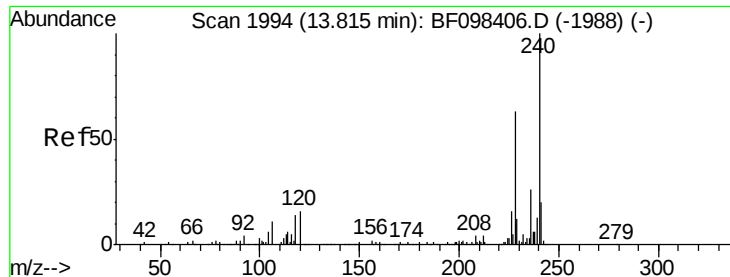
Delta R.T. 0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Tgt Ion:	202	Resp:	1036857
Ion Ratio	Lower	Upper	
202	100		
101	10.2	0.0	33.2
203	17.4	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.80 min Scan# 1992

Delta R.T. 0.00 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Instrument :

BNA_F

ClientSampled :

RL-6-0-11

Tgt Ion:240 Resp: 261037
Ion Ratio Lower Upper

240 100

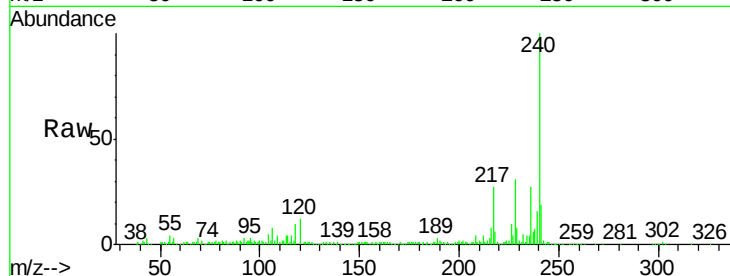
120 11.7 5.8 8.8#

236 27.3 20.5 30.7

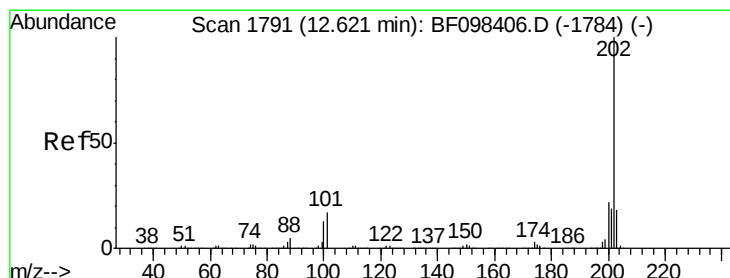
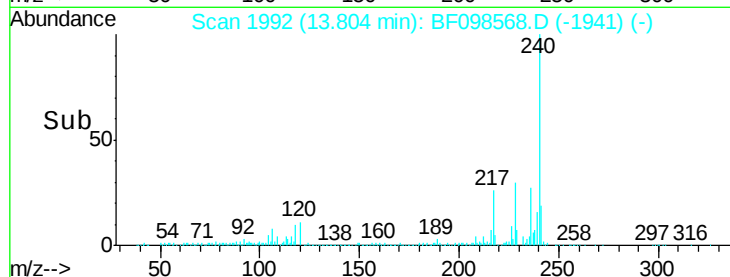
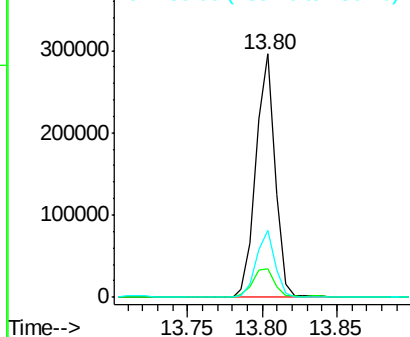
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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 43.163 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BF098568.D

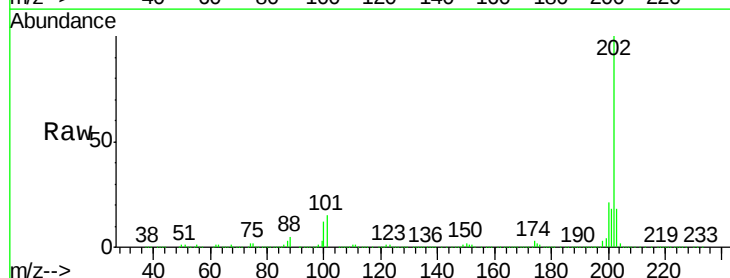
Acq: 15 Sep 2017 14:38

Tgt Ion:202 Resp: 888822
Ion Ratio Lower Upper

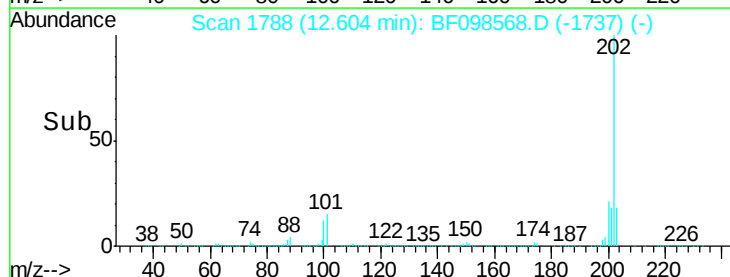
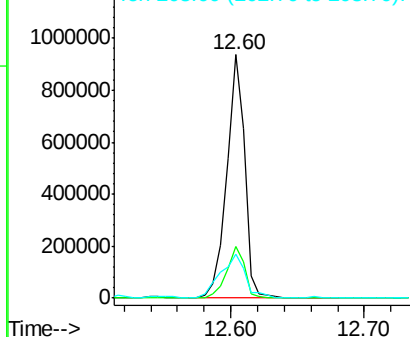
202 100

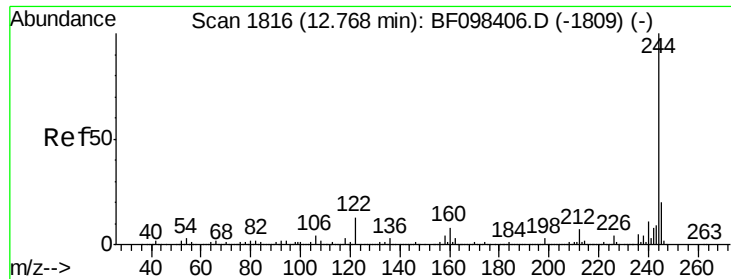
200 21.3 17.6 26.4

203 18.1 14.4 21.6



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





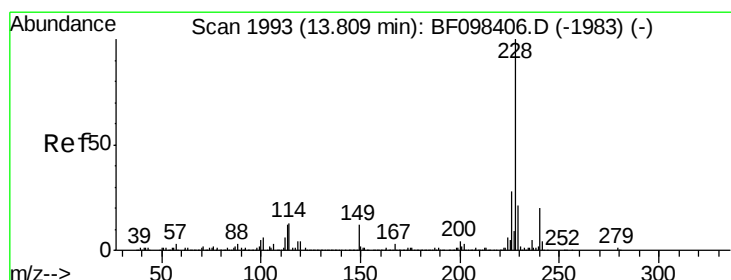
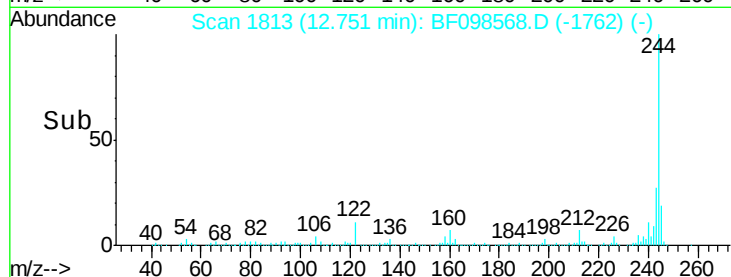
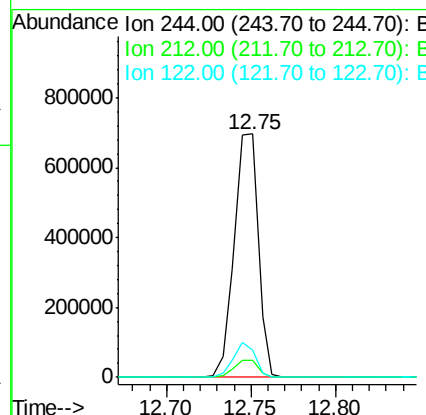
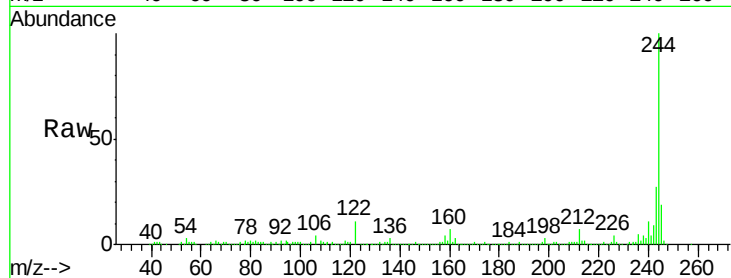
#78
 Terphenyl-d14
 Concen: 57.012 ng
 RT: 12.75 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: BF098568.D
 Acq: 15 Sep 2017 14:38

Instrument :
 BNA_F
 ClientSampled :
 RL-6-0-11

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.2	6.0	9.0	
122	11.3	10.3	15.5	

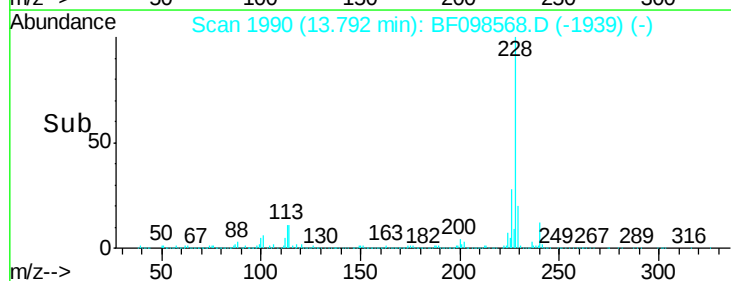
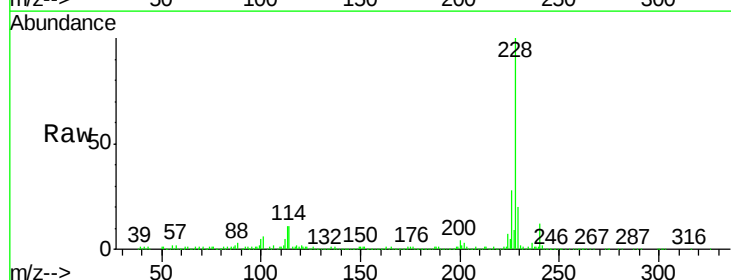
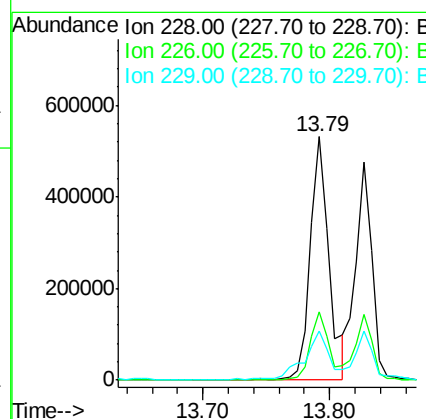
Manual Integrations
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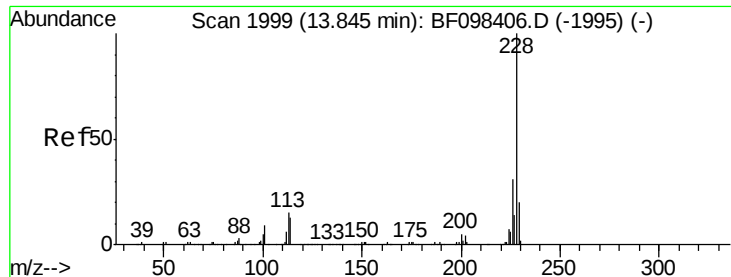
Sohil
 9/18/2017 3:33:35 PM



#80
 Benzo(a)anthracene
 Concen: 35.592 ng
 RT: 13.79 min Scan# 1990
 Delta R.T. 0.00 min
 Lab File: BF098568.D
 Acq: 15 Sep 2017 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	28.3	22.6	33.8	
229	20.1	16.3	24.5	





#82

Chrysene

Concen: 27.483 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Instrument :

BNA_F

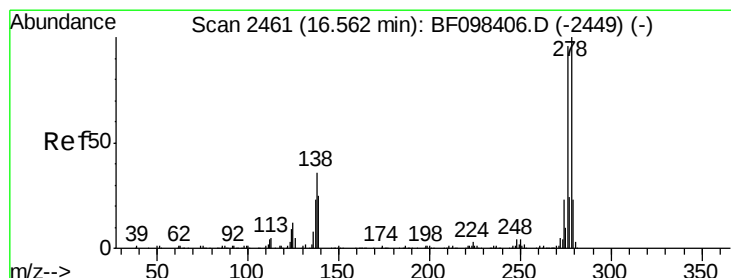
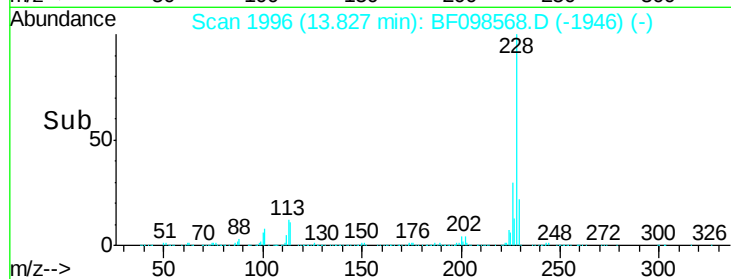
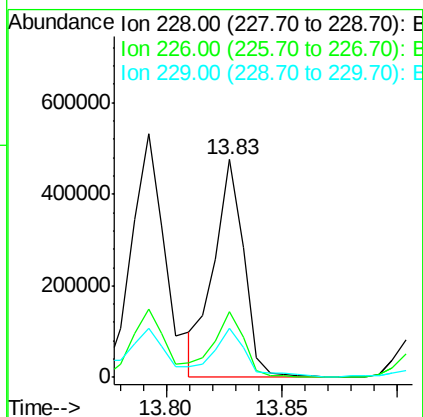
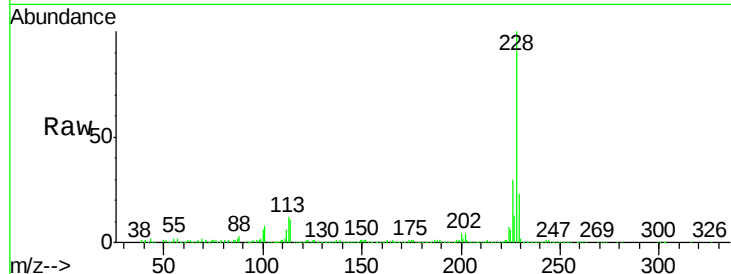
ClientSampleId :

RL-6-0-11

Tgt Ion:	228	Resp:	425156
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.9	37.3
229	22.6	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 17.566 ng

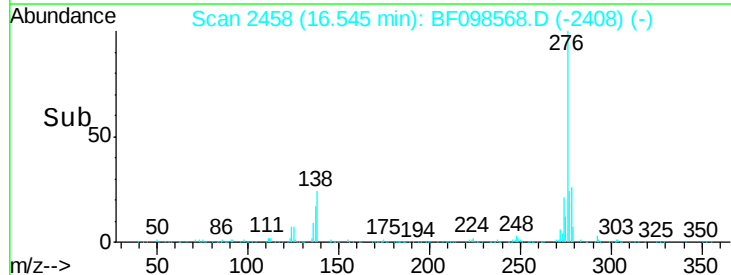
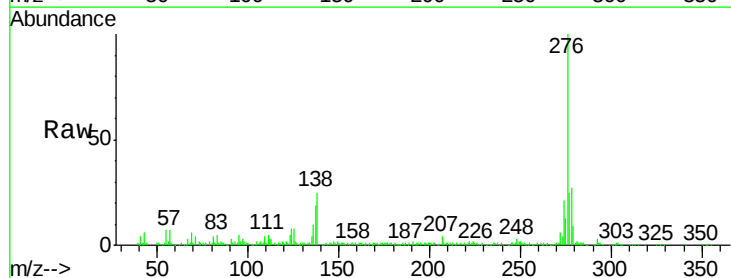
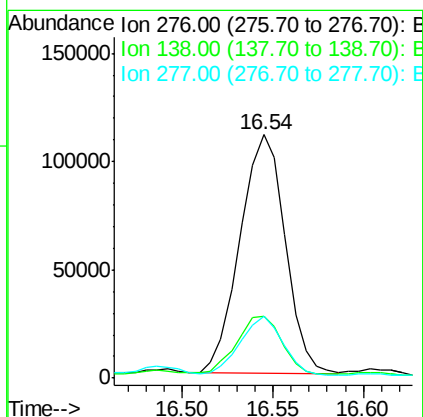
RT: 16.54 min Scan# 2458

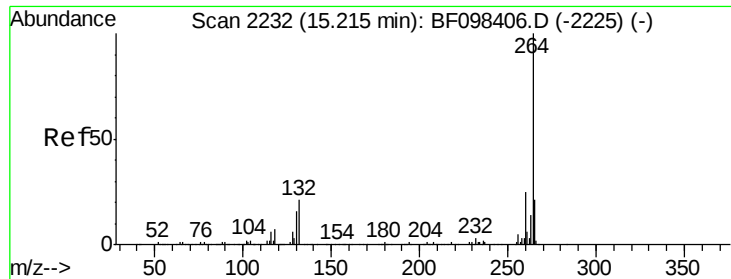
Delta R.T. -0.01 min

Lab File: BF098568.D

Acq: 15 Sep 2017 14:38

Tgt Ion:	276	Resp:	190652
Ion Ratio	Lower	Upper	
276	100		
138	26.6	27.8	41.6#
277	23.4	20.2	30.4





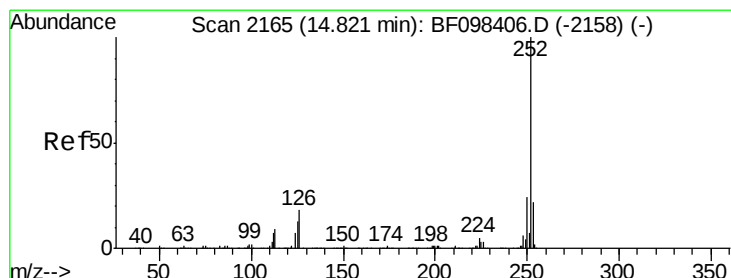
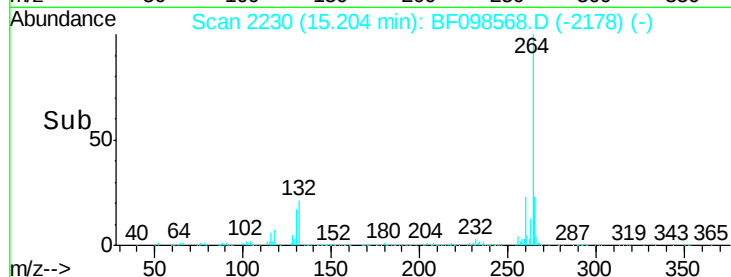
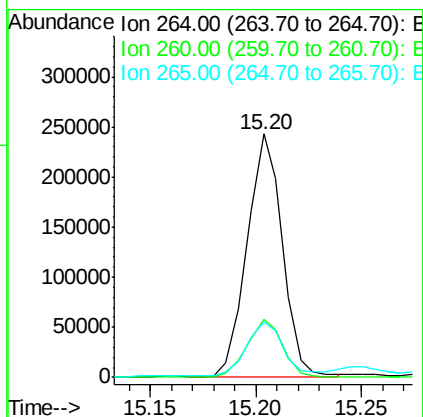
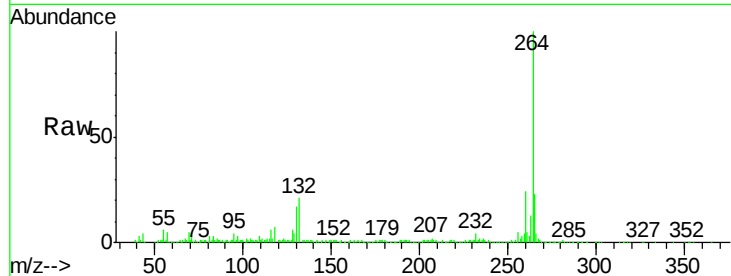
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.20 min Scan# 2230
Delta R.T. 0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Instrument :
BNA_F
ClientSampleId :
RL-6-0-11

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	22.9	17.2	25.8

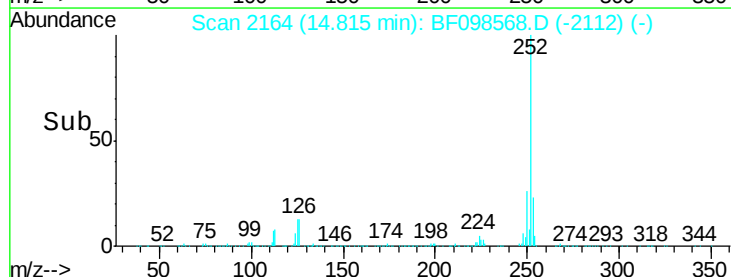
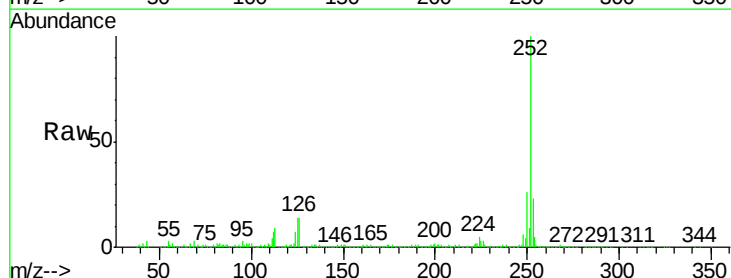
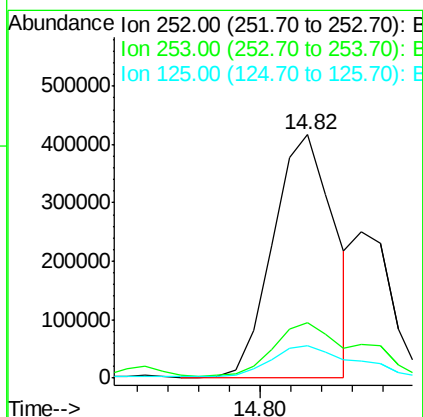
Manual Integrations
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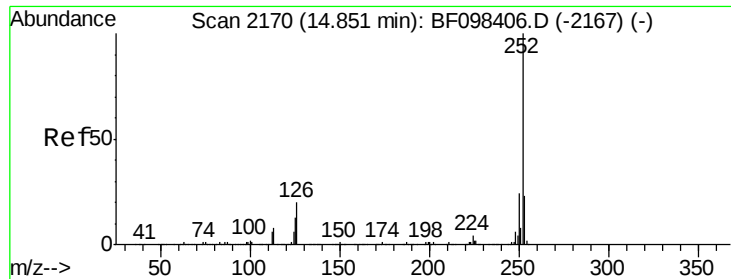
Sohil
9/18/2017 3:33:35 PM



#87
Benzo(b)fluoranthene
Concen: 33.257 ng m
RT: 14.82 min Scan# 2164
Delta R.T. 0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	13.5	9.8	14.8





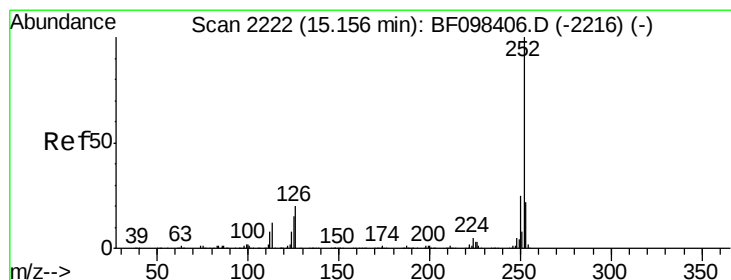
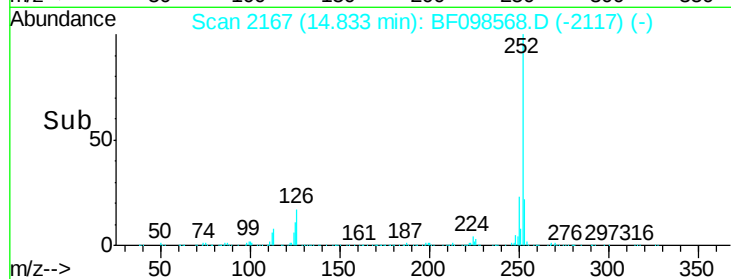
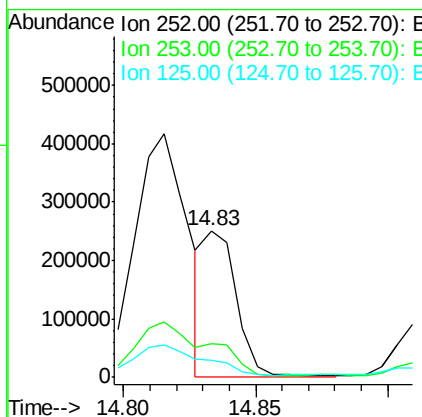
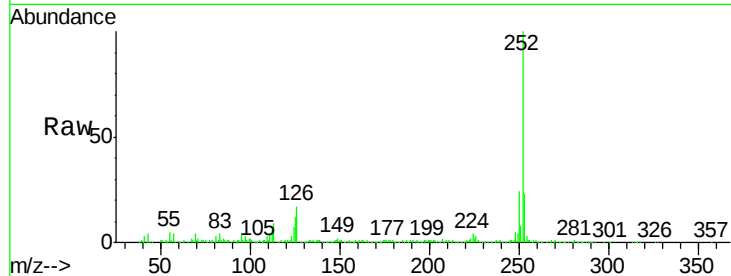
#88
Benzo(k)fluoranthene
Concen: 12.985 ng m
RT: 14.83 min Scan# 2167
Delta R.T. -0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Instrument :
BNA_F
ClientSampled :
RL-6-0-11

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	213265		
253	22.9	18.4	27.6	
125	11.8	13.1	19.7	

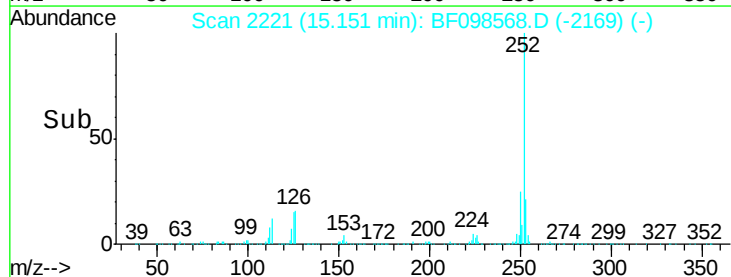
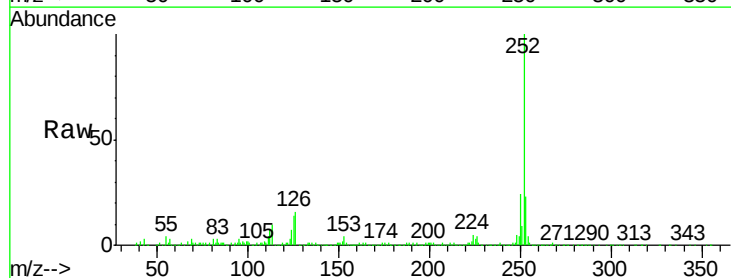
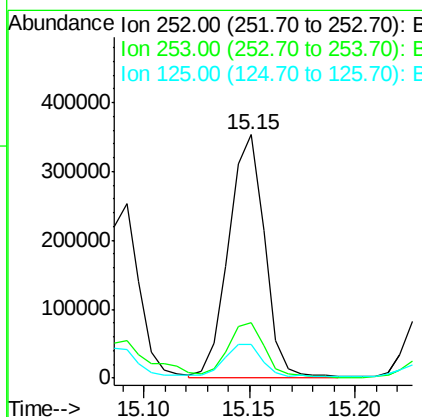
Manual Integrations
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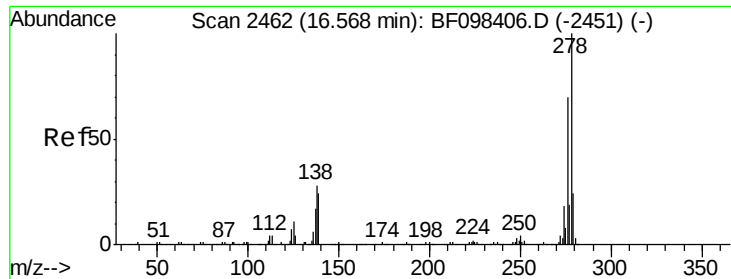
Sohil
9/18/2017 3:33:35 PM



#89
Benzo(a)pyrene
Concen: 26.368 ng
RT: 15.15 min Scan# 2221
Delta R.T. 0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	413279		
253	22.7	17.5	26.3	
125	13.9	11.0	16.4	





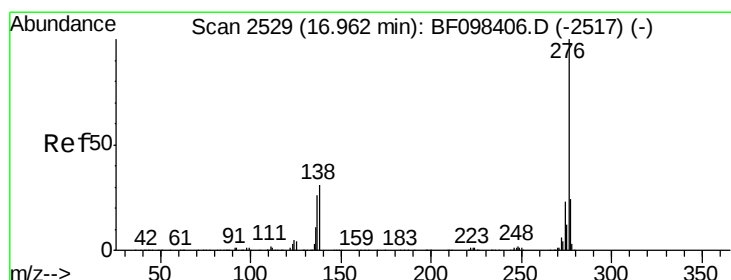
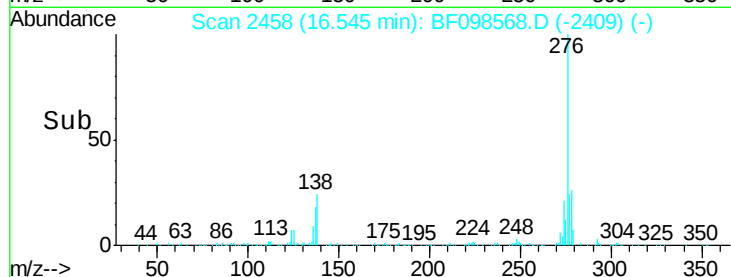
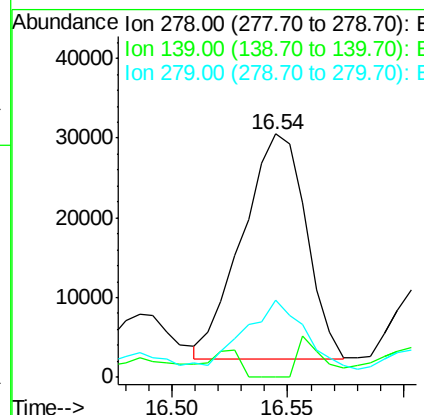
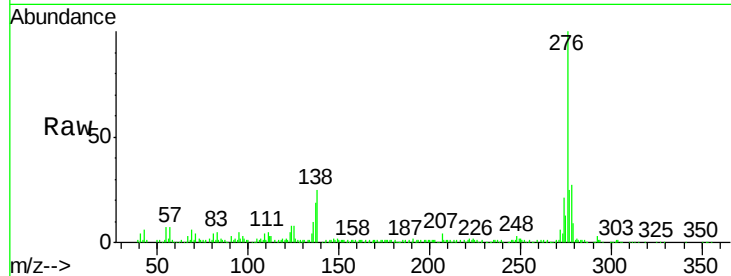
#90
Dibenzo(a,h)anthracene
Concen: 4.711 ng m
RT: 16.54 min Scan# 2458
Delta R.T. -0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Instrument :
BNA_F
ClientSampleId :
RL-6-0-11

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	31.8	19.3	28.9#

Manual Integrations
APPROVED

Sohil
9/18/2017 3:33:35 PM



#91
Benzo(g,h,i)perylene
Concen: 15.629 ng
RT: 16.95 min Scan# 2527
Delta R.T. 0.01 min
Lab File: BF098568.D
Acq: 15 Sep 2017 14:38

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.6	28.0
138	25.9	25.4	38.0

