

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
 Data File : BF097455.D
 Acq On : 8 Aug 2017 4:09
 Operator : SJ/JU
 Sample : I4610-04DL 10X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-BDL

Manual Integrations
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Sohil
 8/9/2017 9:21:44 PM

Quant Time: Aug 08 07:32:26 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 07 16:02:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.41	152	91234	20.00	ng	0.00
21) Naphthalene-d8	7.69	136	387919	20.00	ng	0.00
38) Acenaphthene-d10	9.43	164	126194	20.00	ng	0.00
63) Phenanthrene-d10	10.91	188	206399	20.00	ng	0.00
75) Chrysene-d12	13.54	240	181673	20.00	ng	0.00
86) Perylene-d12	14.87	264	133311	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.02	112	66193	10.94	ng	0.01
7) Phenol-d6	6.09	99	94208	13.64	ng	0.00
23) Nitrobenzene-d5	6.99	82	46858	7.09	ng	0.00
41) 2,4,6-Tribromophenol	10.23	330	11652	11.69	ng	0.00
44) 2-Fluorobiphenyl	8.77	172	93478	12.57	ng	0.00
78) Terphenyl-d14	12.49	244	58901	6.61	ng	-0.01
Target Compounds						
31) Naphthalene	7.72	128	128793	7.043	ng	99
37) 2-Methylnaphthalene	8.41	142	69995	6.046	ng	98
51) Acenaphthene	9.47	154	88222	12.302	ng	97
54) Dibenzofuran	9.64	168	109714	11.486	ng	97
57) Fluorene	9.98	166	178314	24.837	ng	99
70) Phenanthrene	10.93	178	776751	70.237	ng	99
71) Anthracene	10.99	178	266809	23.556	ng	98
72) Carbazole	11.15	167	86650	7.779	ng	96
74) Fluoranthene	12.12	202	663247	61.219	ng	98
77) Pyrene	12.34	202	573328	38.548	ng	99
80) Benzo(a)anthracene	13.53	228	290756	24.735	ng	99
82) Chrysene	13.56	228	233055	20.304	ng	98
85) Indeno(1,2,3-cd)pyrene	16.07	276	77318	7.856	ng	97
87) Benzo(b)fluoranthene	14.53	252	251499m	31.384	ng	
88) Benzo(k)fluoranthene	14.55	252	57866m	7.578	ng	
89) Benzo(a)pyrene	14.83	252	152303	20.766	ng	99
90) Dibenzo(a,h)anthracene	16.06	278	19234m	3.198	ng	
91) Benzo(g,h,i)perylene	16.42	276	73087	11.588	ng	93

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

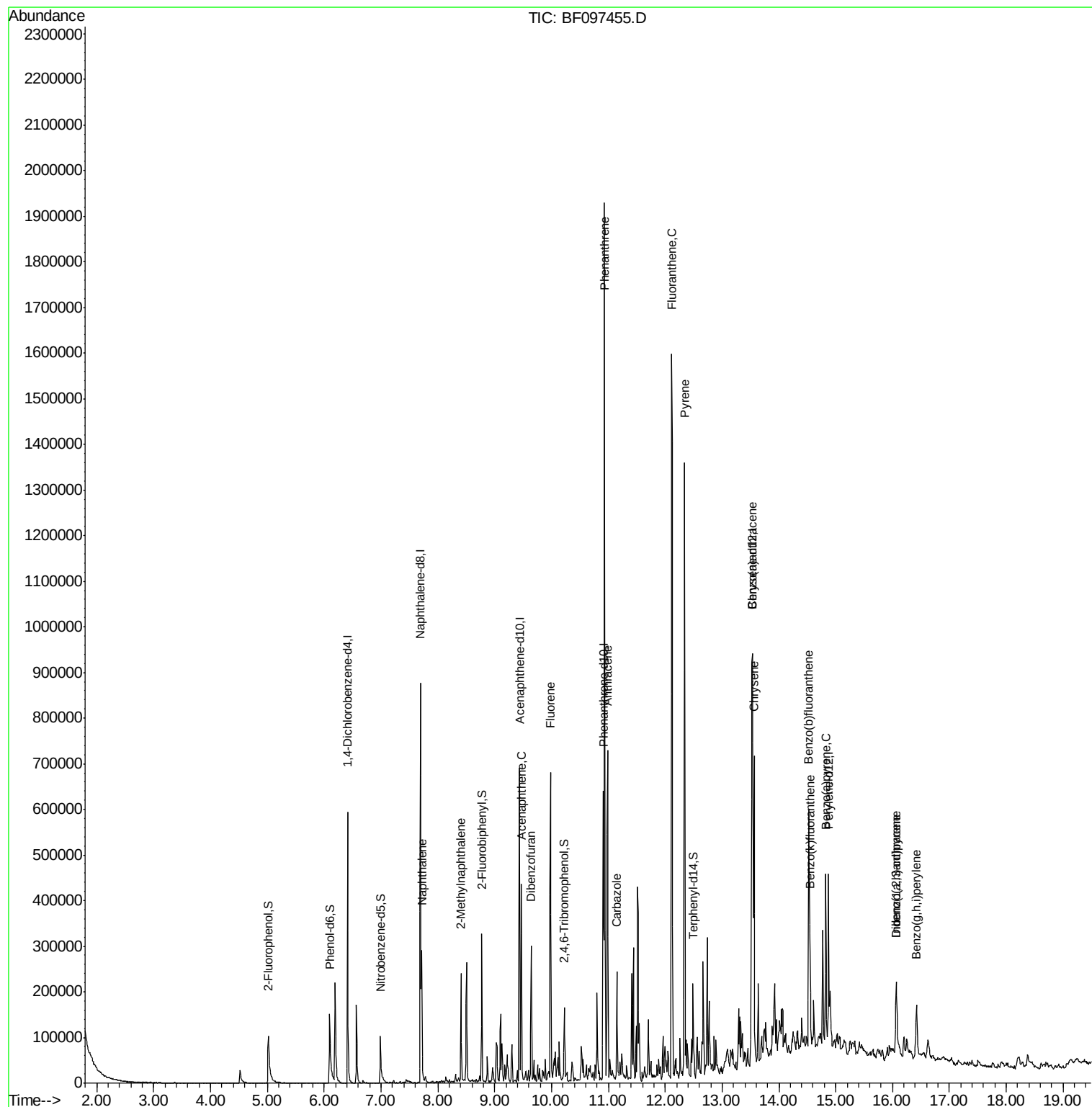
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
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ALS Vial : 29 Sample Multiplier: 1

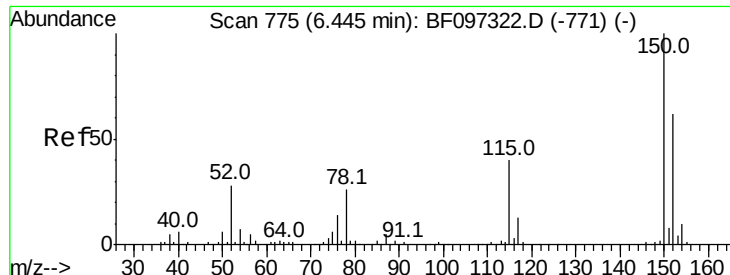
Instrument :
BNA_F
ClientSampleId :
PL-02-080317-BDL

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#1

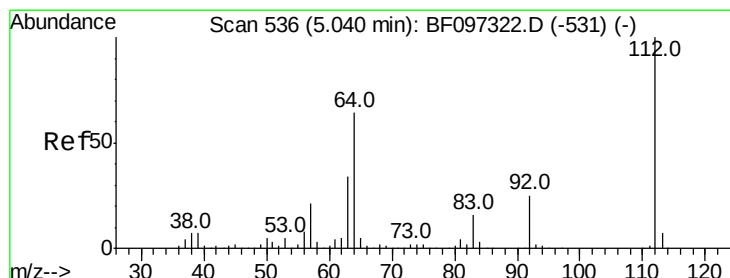
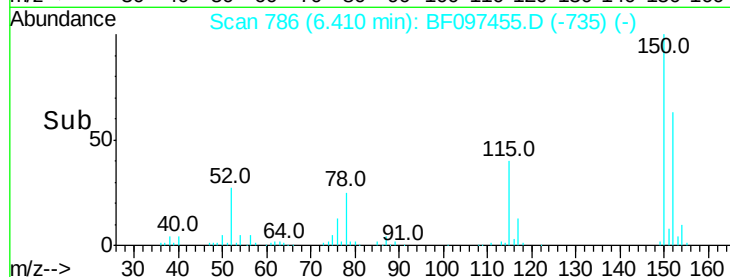
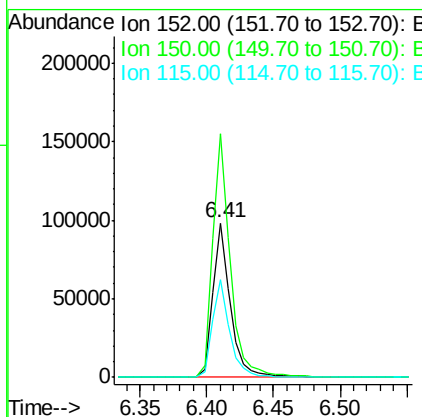
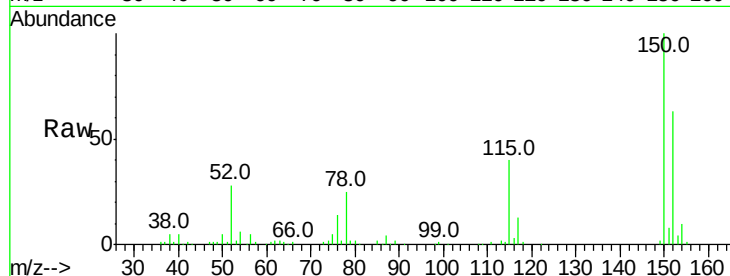
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.41 min Scan# 786
 Delta R.T. 0.00 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-BDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	126.2	189.2
115	63.6	52.2	78.2

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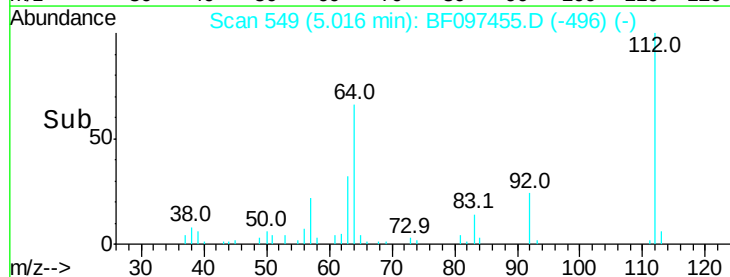
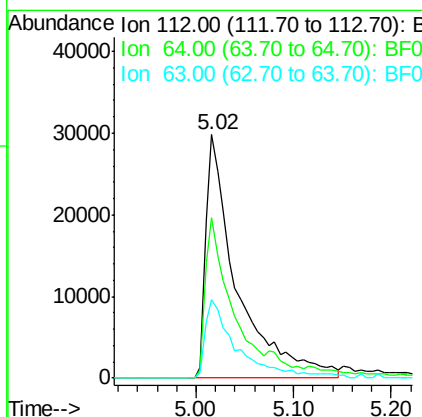
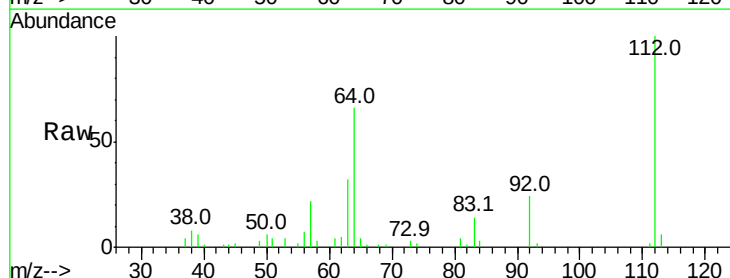
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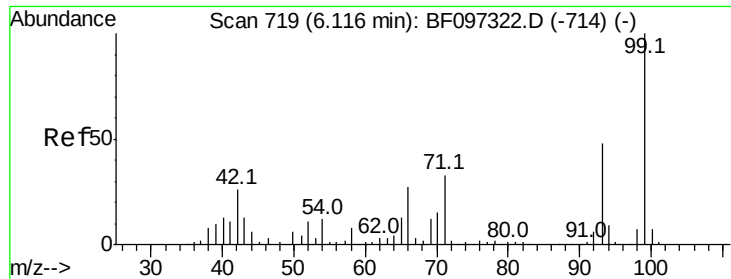


#5

2-Fluorophenol
 Concen: 10.937 ng
 RT: 5.02 min Scan# 549
 Delta R.T. 0.01 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.0	46.0	69.0
63	32.2	23.4	35.0





#7

Phenol-d6

Concen: 13.635 ng

RT: 6.09 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

Instrument :

BNA_F

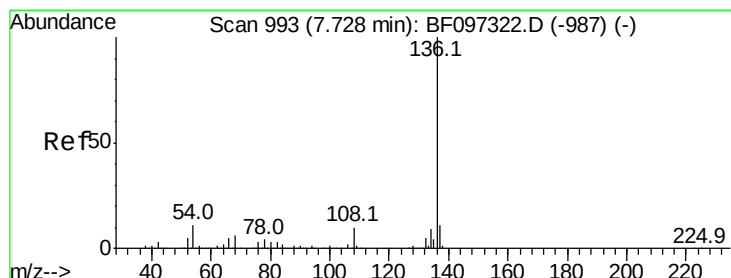
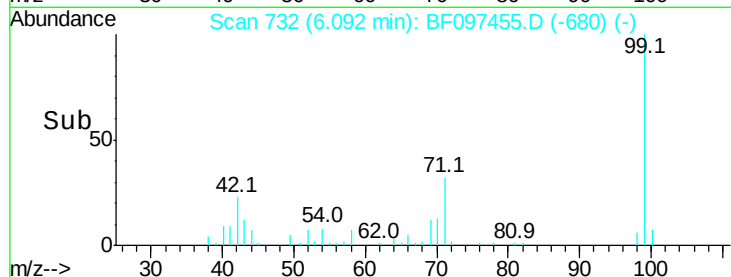
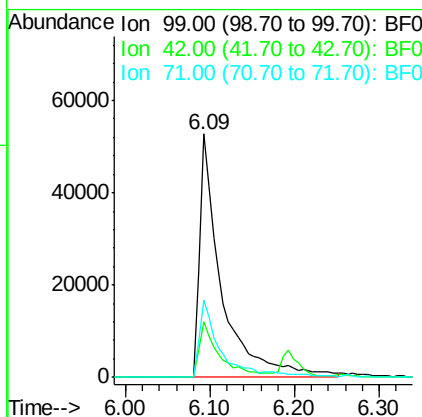
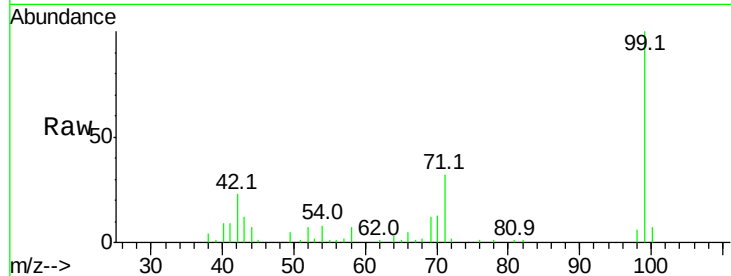
ClientSampled :

PL-02-080317-BDL

Tot Ion:	99	Resp:	94208
Ion Ratio	Lower	Upper	
99	100		
42	22.8	13.5	20.3#
71	31.6	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

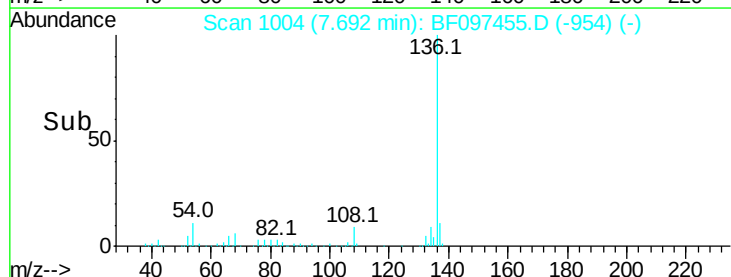
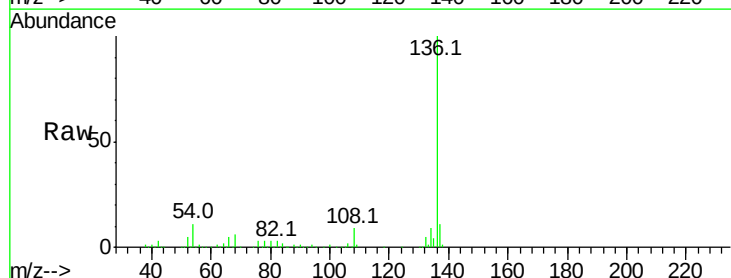
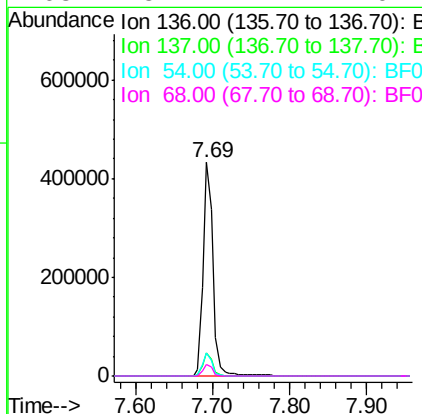
RT: 7.69 min Scan# 1004

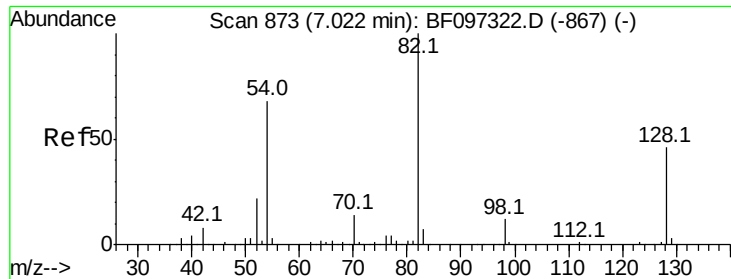
Delta R.T. -0.01 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

Tgt Ion:	136	Resp:	387919
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	11.1	4.9	7.3#
68	5.7	4.1	6.1





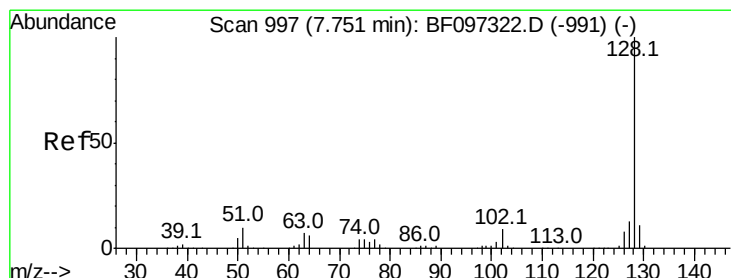
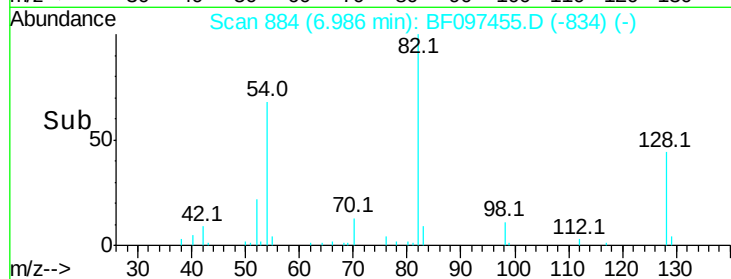
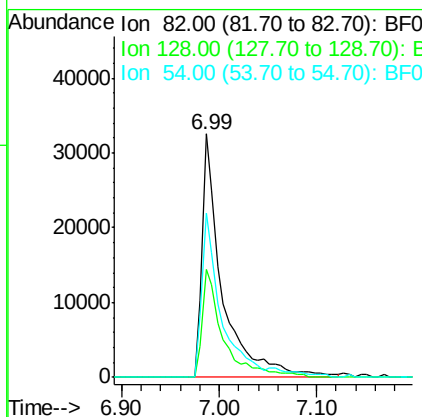
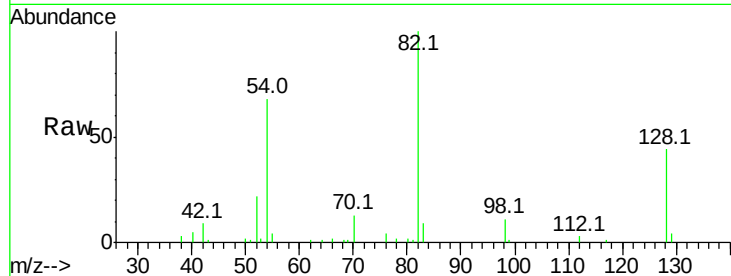
#23
 Nitrobenzene-d5
 Concen: 7.086 ng
 RT: 6.99 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-BDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.5	34.0	51.0
54	67.7	42.2	63.2

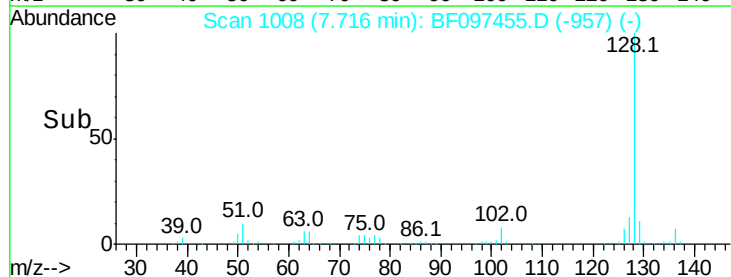
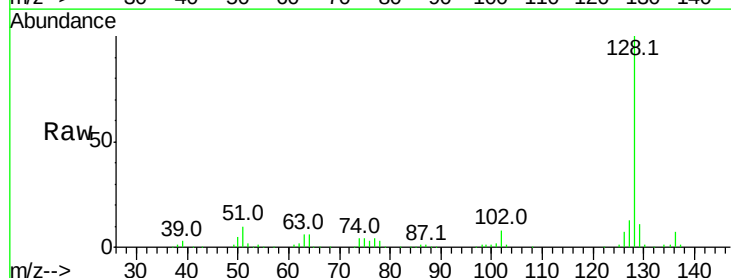
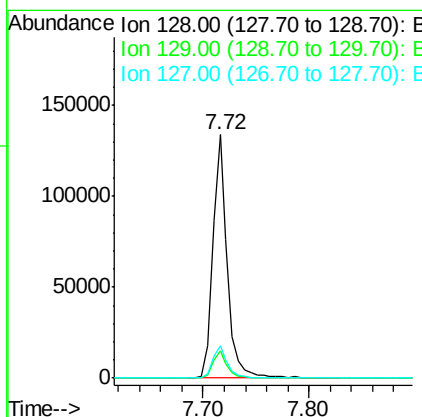
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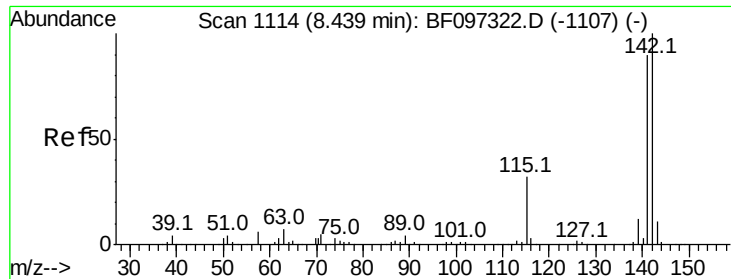
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#31
 Naphthalene
 Concen: 7.043 ng
 RT: 7.72 min Scan# 1008
 Delta R.T. 0.00 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	13.2	10.8	16.2





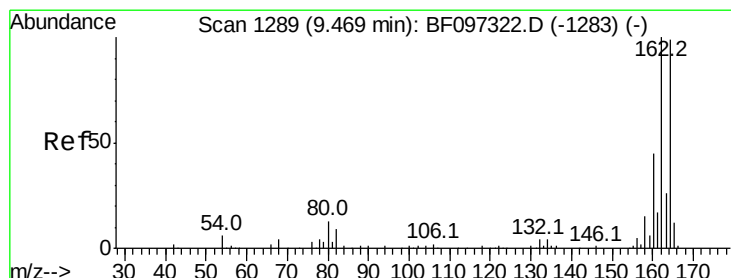
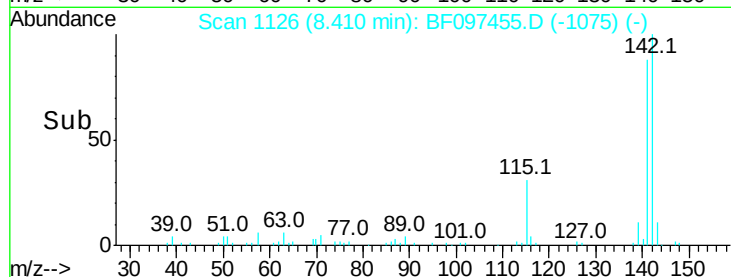
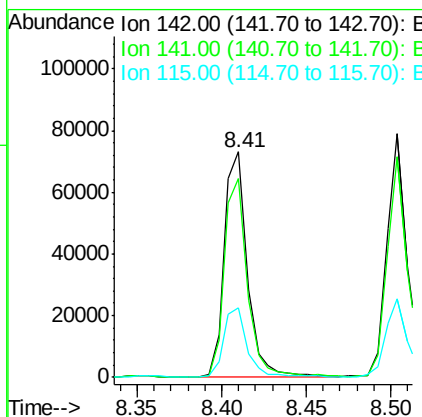
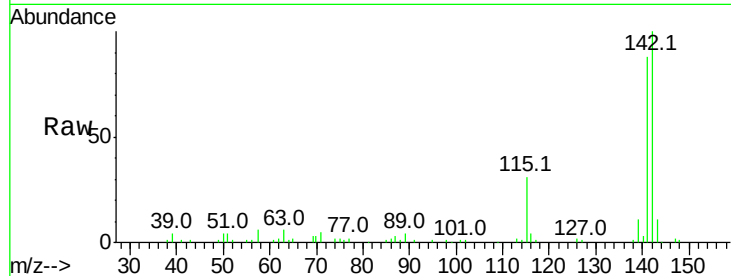
#37
 2-Methylnaphthalene
 Concen: 6.046 ng
 RT: 8.41 min Scan# 1126
 Delta R.T. 0.00 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-BDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.3	106.9
115	30.8	27.1	40.7

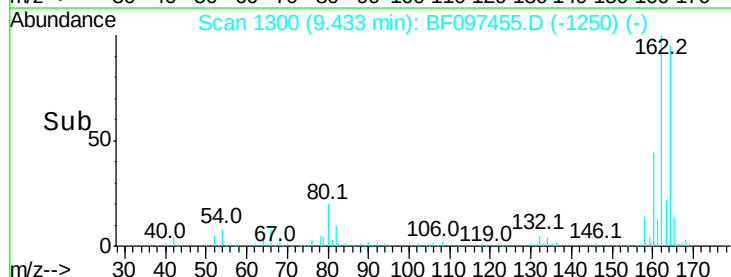
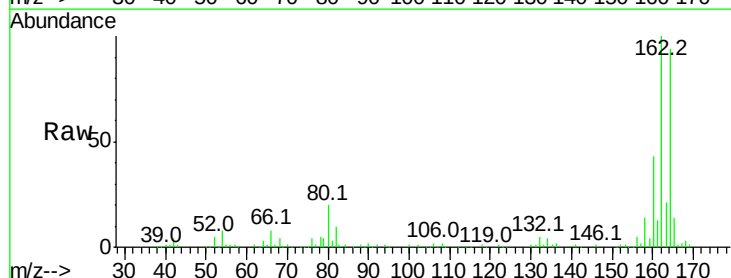
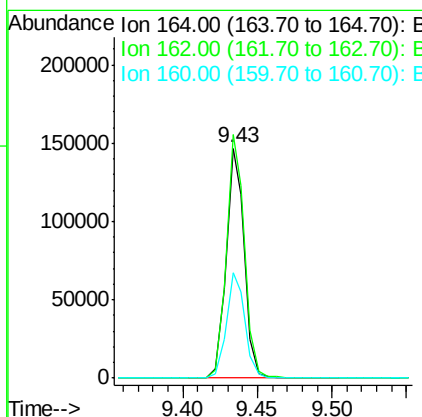
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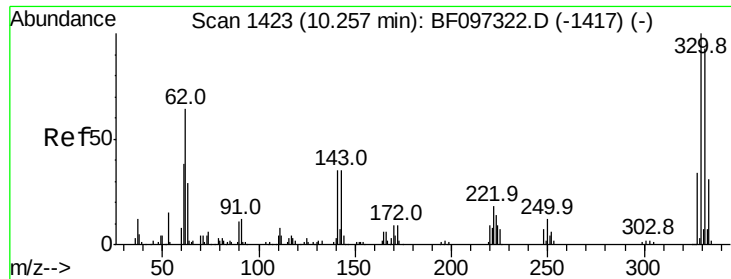
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.43 min Scan# 1300
 Delta R.T. -0.01 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.1	82.6	123.8
160	46.0	36.2	54.2





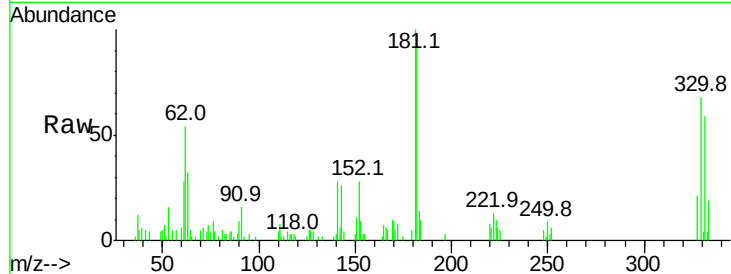
#41
 2,4,6-Tribromophenol
 Concen: 11.686 ng
 RT: 10.23 min Scan# 1435
 Delta R.T. -0.01 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-BDL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	93.1	76.6	115.0	
141	44.3	31.4	47.2	

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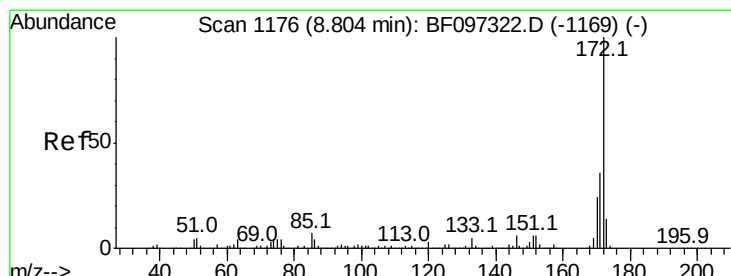
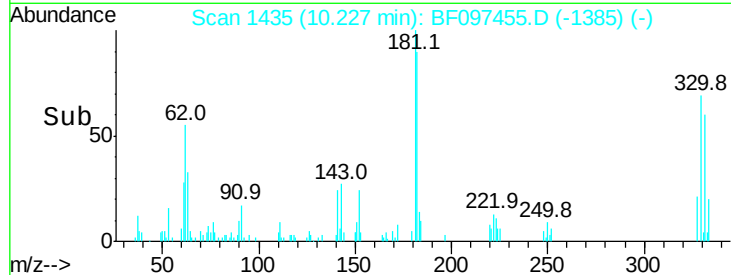
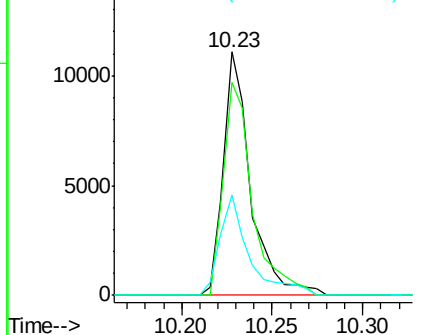


Abundance

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: 12.571 ng
 RT: 8.77 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

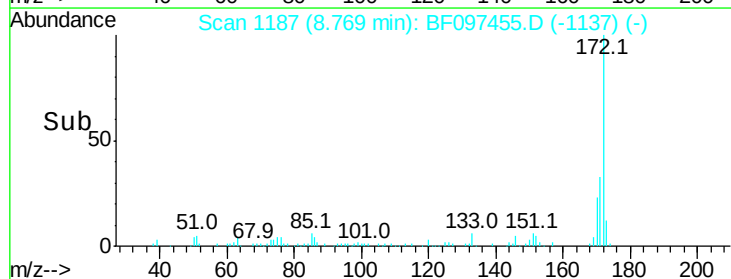
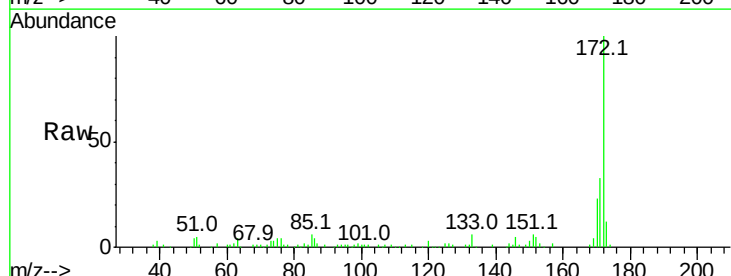
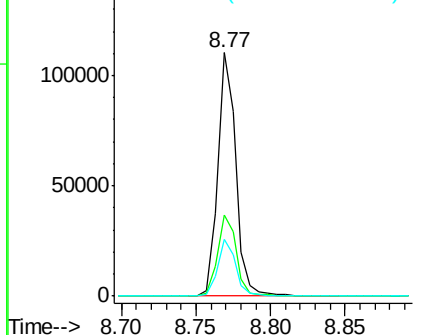
Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	33.5	29.6	44.4	
170	23.2	19.8	29.8	

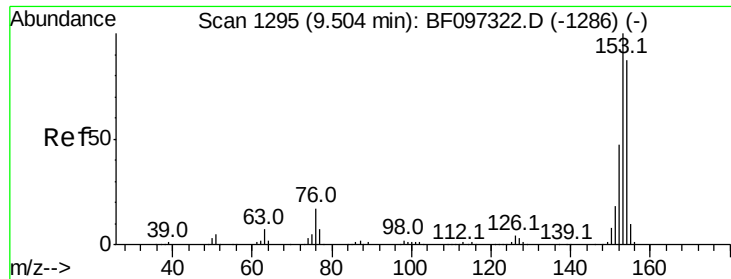
Abundance

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





#51

Acenaphthene

Concen: 12.302 ng

RT: 9.47 min Scan# 1306

Delta R.T. -0.01 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

Instrument :

BNA_F

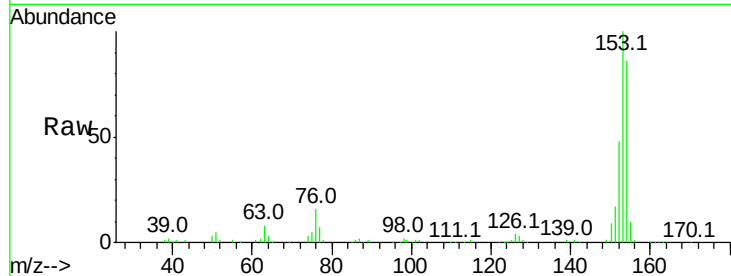
ClientSampleId :

PL-02-080317-BDL

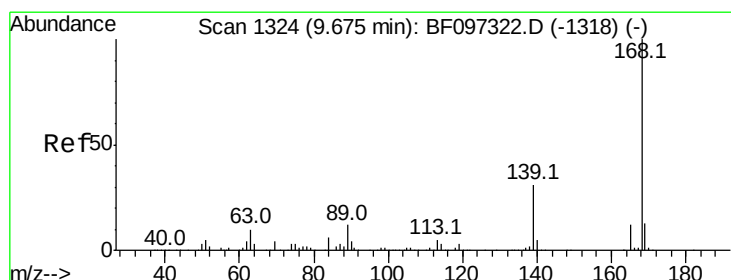
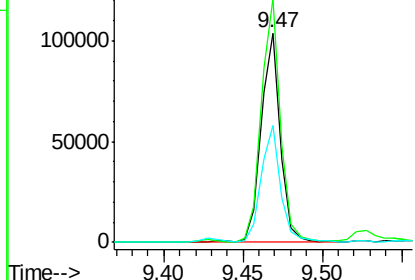
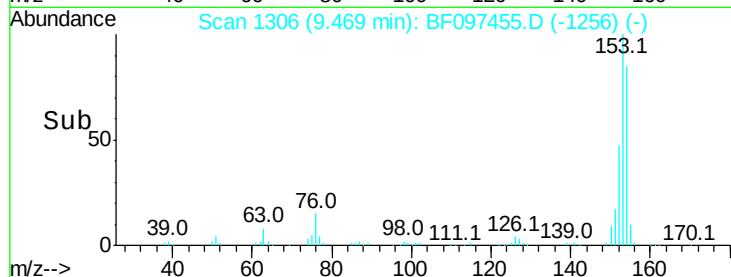
Tot Ion:	154	Resp:	88222
Ion Ratio	Lower	Upper	
154	100		
153	116.3	90.5	135.7
152	55.6	43.6	65.4

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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: 11.486 ng

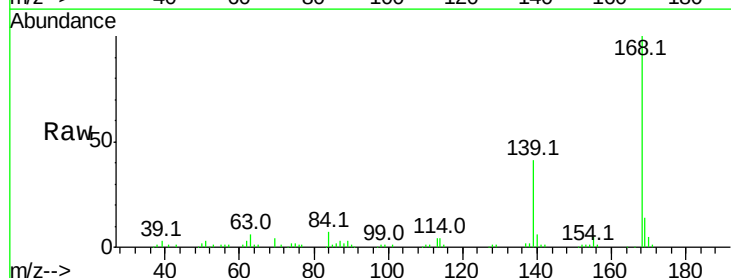
RT: 9.64 min Scan# 1335

Delta R.T. -0.01 min

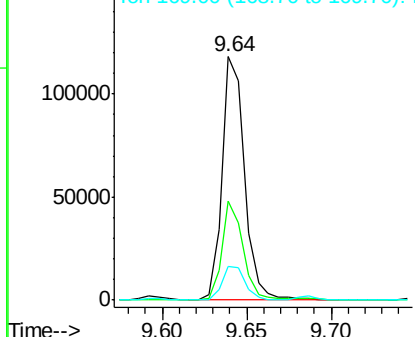
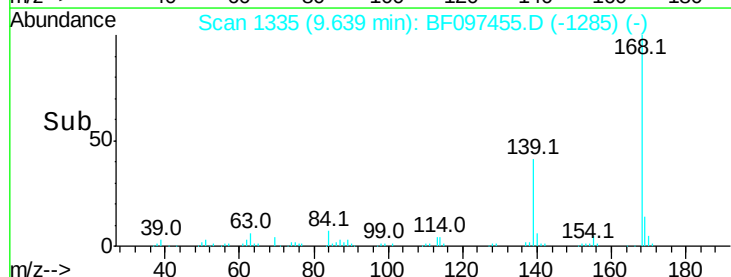
Lab File: BF097455.D

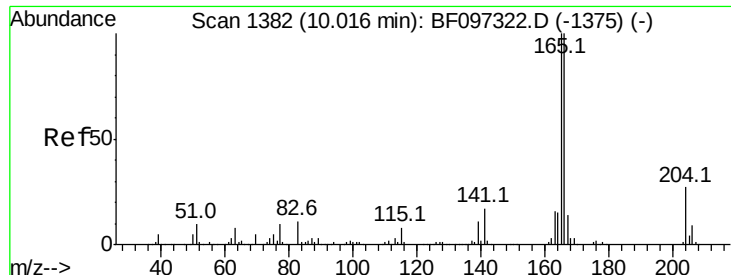
Acq: 8 Aug 2017 4:09

Tgt Ion:	168	Resp:	109714
Ion Ratio	Lower	Upper	
168	100		
139	40.8	30.6	45.8
169	14.0	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





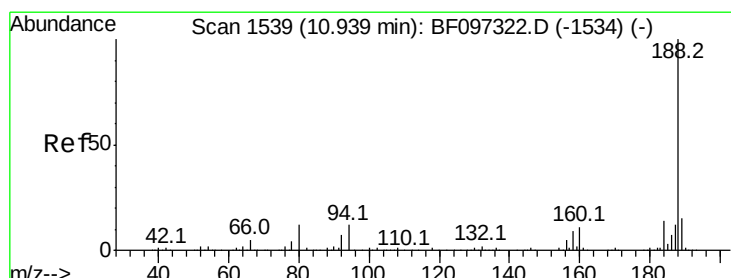
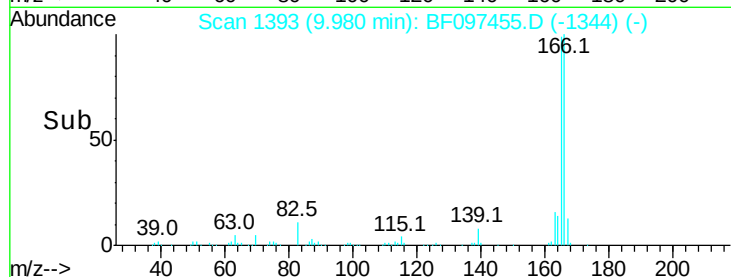
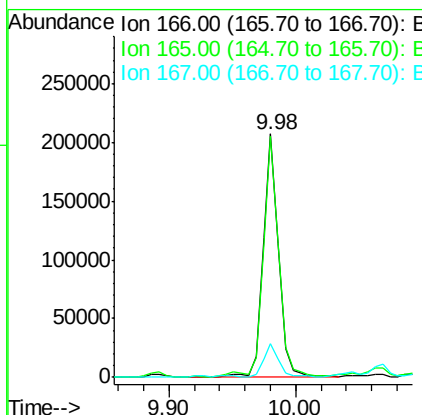
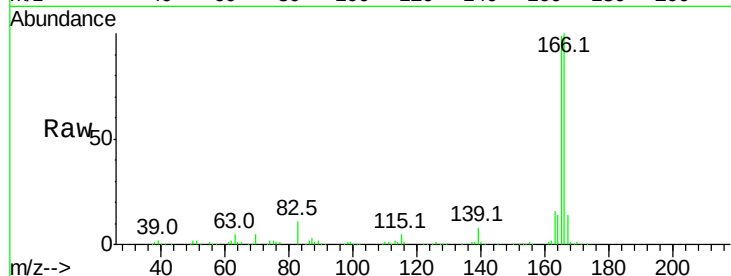
#57
Fluorene
 Concen: 24.837 ng
 RT: 9.98 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-BDL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	178314		
165	99.3	78.8	118.2	
167	13.6	10.6	16.0	

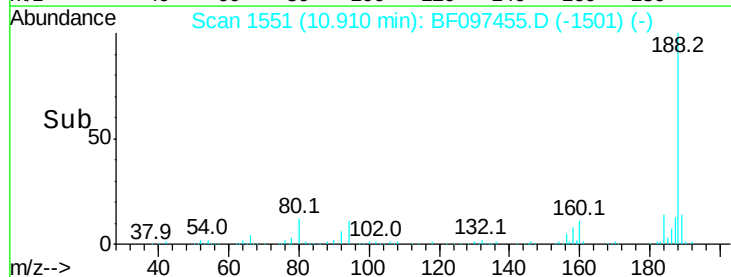
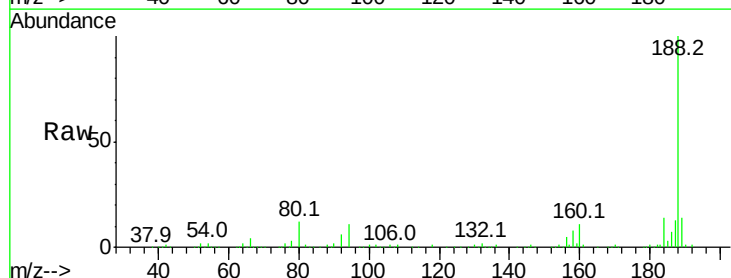
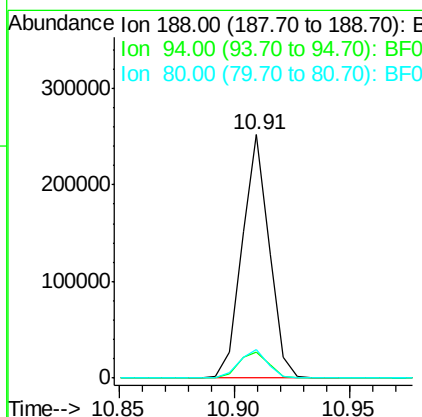
Manual Integrations
 APPROVED

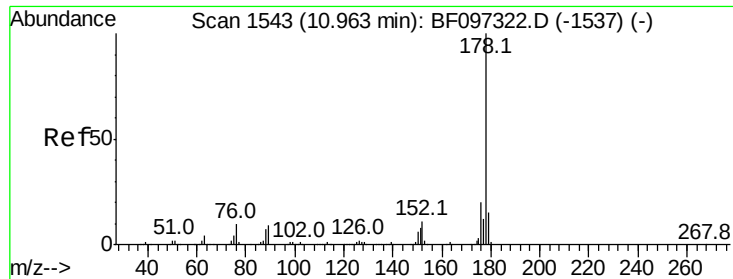
Sohil
 8/9/2017 9:21:44 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.91 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: BF097455.D
 Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	206399		
94	10.8	9.4	14.2	
80	11.6	10.2	15.2	





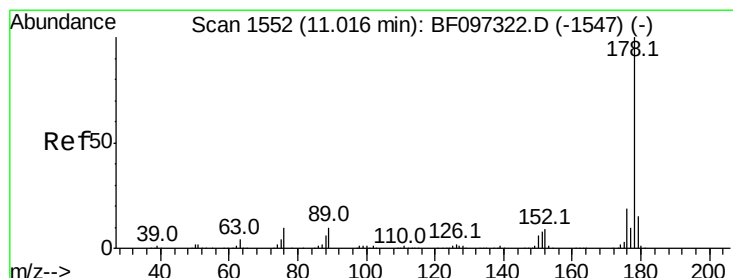
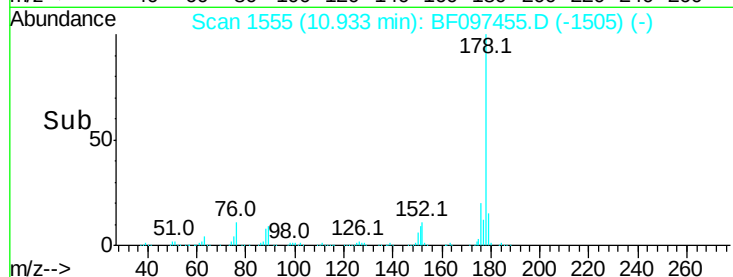
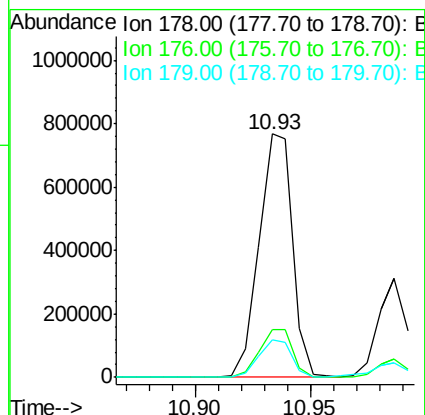
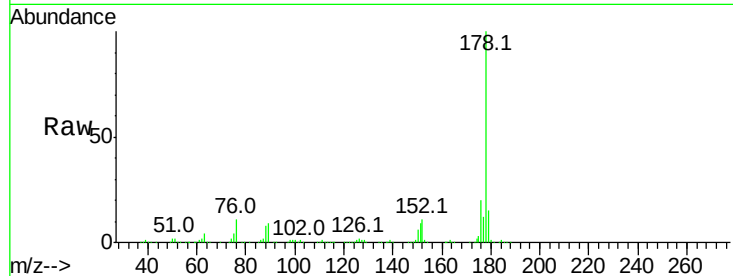
#70
Phenanthrene
Concen: 70.237 ng
RT: 10.93 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-BDL

Tot Ion	Ratio	Resp	Lower	Upper
178	100	776751		
176	19.8	16.2	24.4	
179	15.4	12.6	19.0	

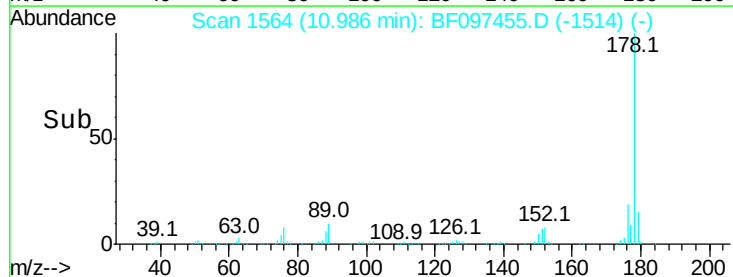
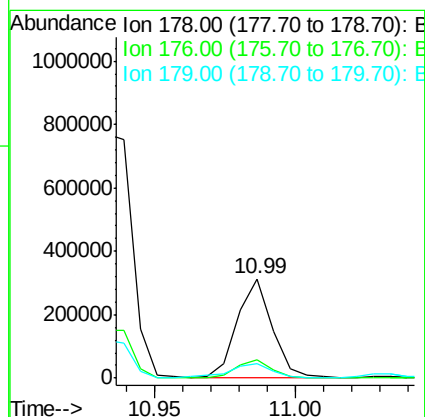
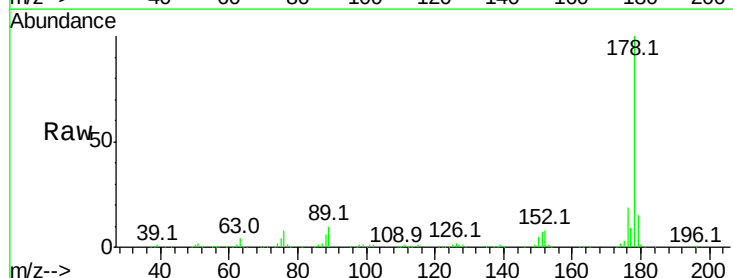
Manual Integrations
APPROVED

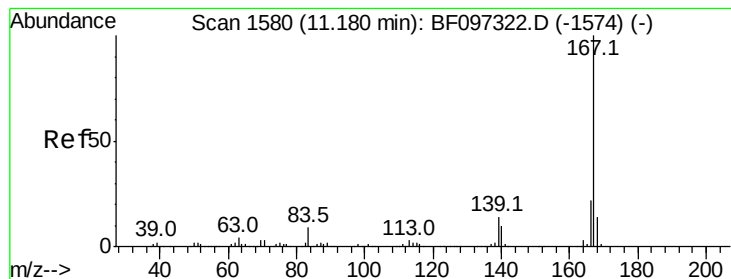
Sohil
8/9/2017 9:21:44 PM



#71
Anthracene
Concen: 23.556 ng
RT: 10.99 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	266809		
176	18.7	15.8	23.8	
179	14.9	12.7	19.1	





#72

Carbazole

Concen: 7.779 ng

RT: 11.15 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

Instrument :

BNA_F

ClientSampleId :

PL-02-080317-BDL

Tot Ion:167 Resp: 86650

Ion Ratio Lower Upper

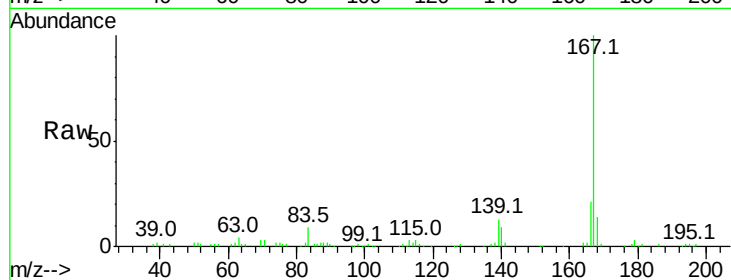
167 100

166 21.0 18.1 27.1

139 12.6 11.7 17.5

Manual Integrations
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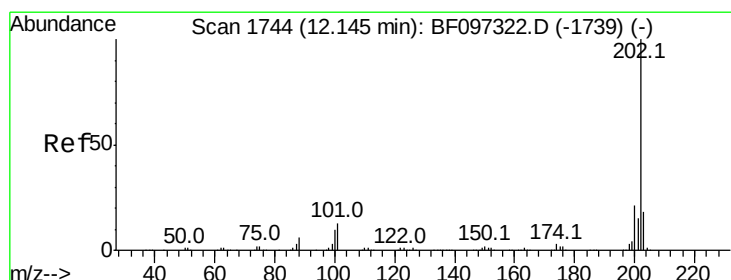
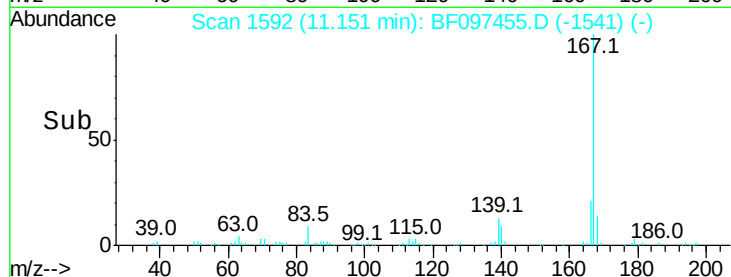
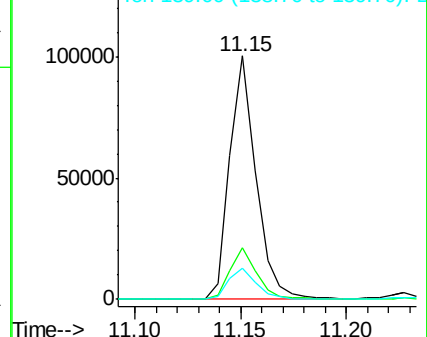
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 61.219 ng

RT: 12.12 min Scan# 1756

Delta R.T. 0.00 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

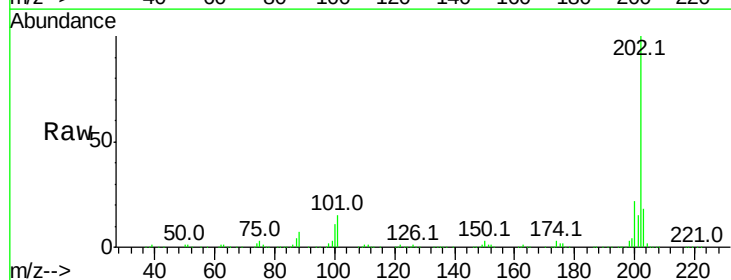
Tgt Ion:202 Resp: 663247

Ion Ratio Lower Upper

202 100

101 14.6 0.0 33.2

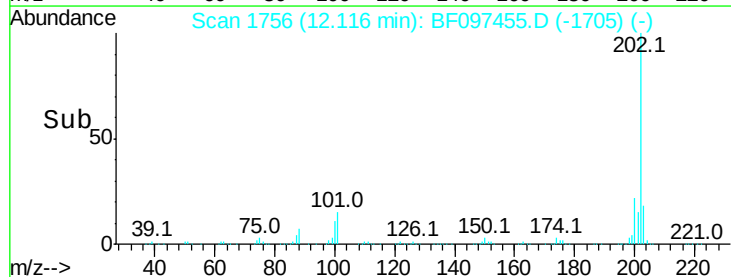
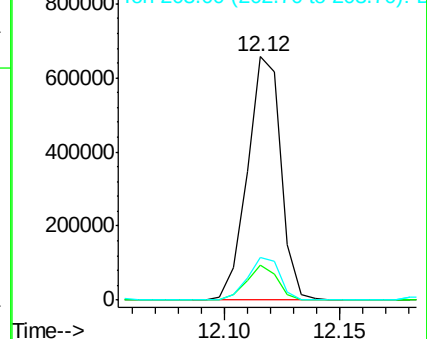
203 17.6 0.0 38.1

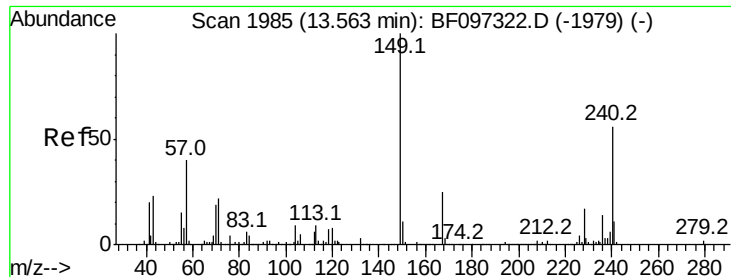


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.54 min Scan# 1998

Delta R.T. 0.00 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

Instrument :

BNA_F

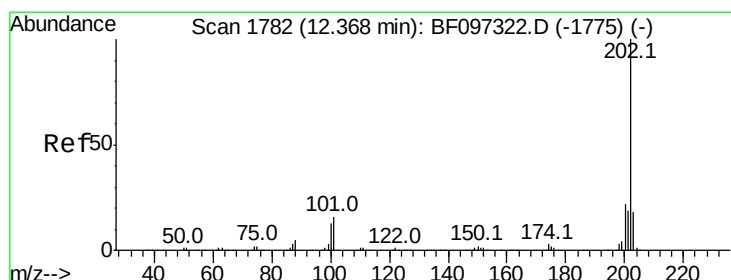
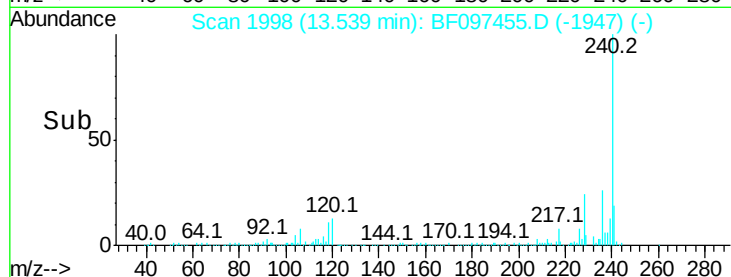
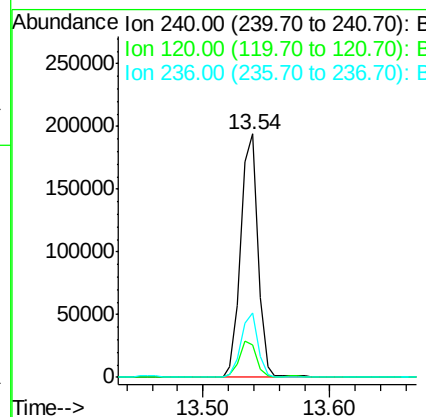
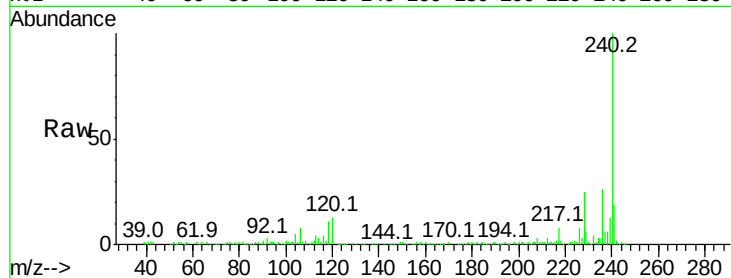
ClientSampleId :

PL-02-080317-BDL

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.1	5.8	8.8#
236	26.2	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 38.548 ng

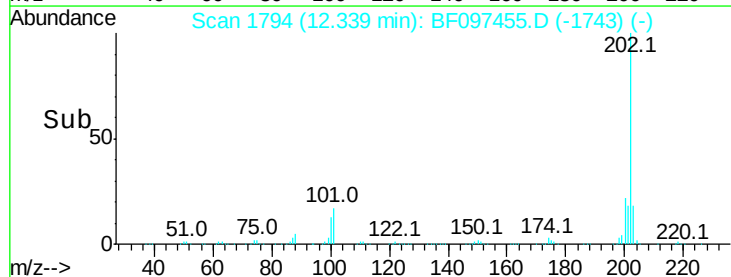
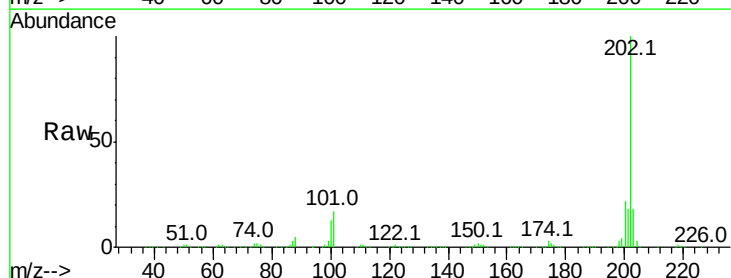
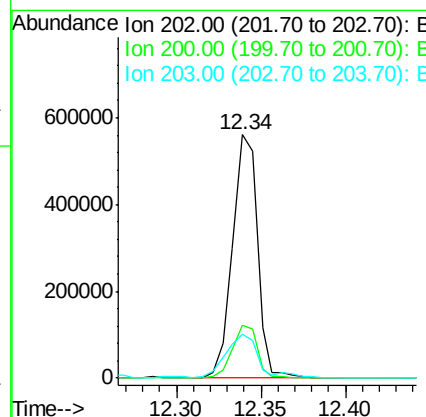
RT: 12.34 min Scan# 1794

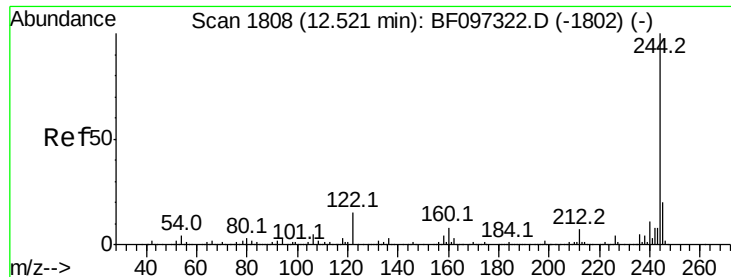
Delta R.T. 0.00 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.6	26.4
203	18.1	14.4	21.6





#78

Terphenyl-d14

Concen: 6.610 ng

RT: 12.49 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

Instrument :

BNA_F

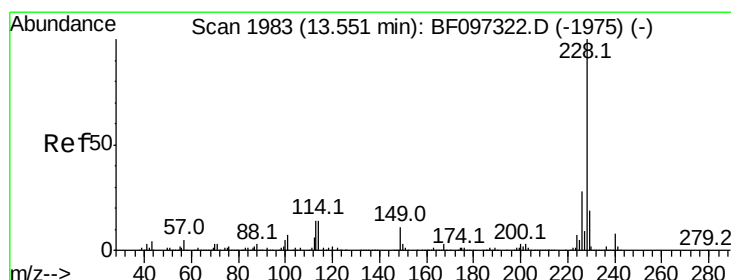
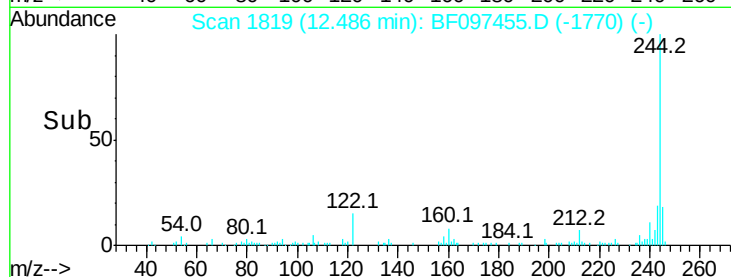
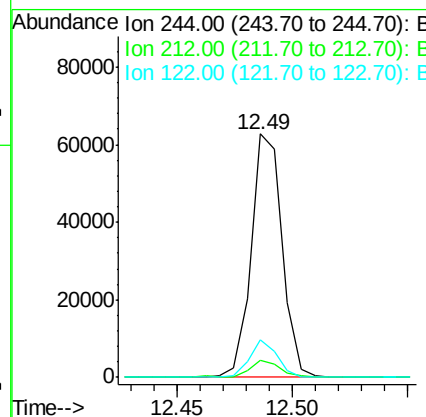
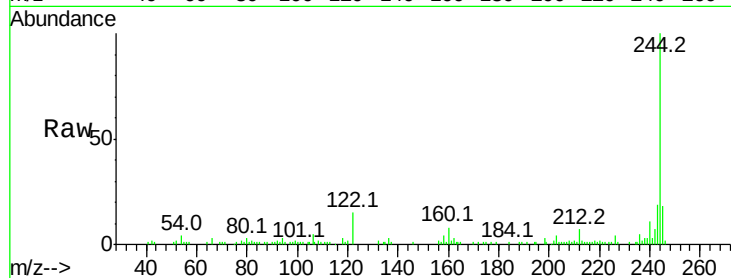
ClientSampleId :

PL-02-080317-BDL

Tot Ion:	244	Resp:	58901
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.0	9.0
122	15.4	10.3	15.5

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 24.735 ng

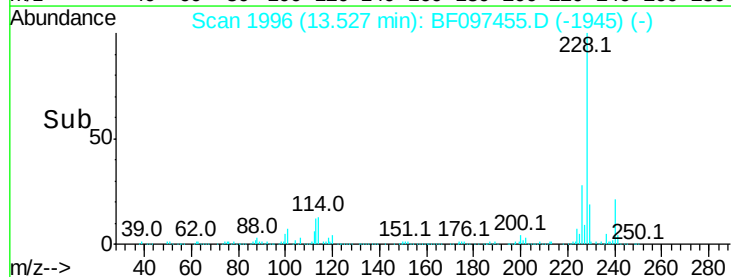
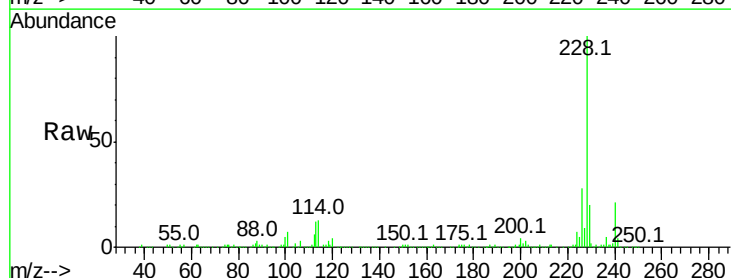
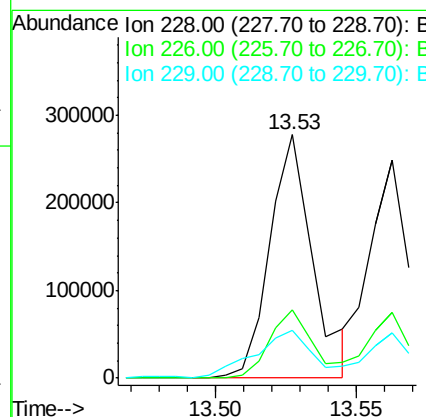
RT: 13.53 min Scan# 1996

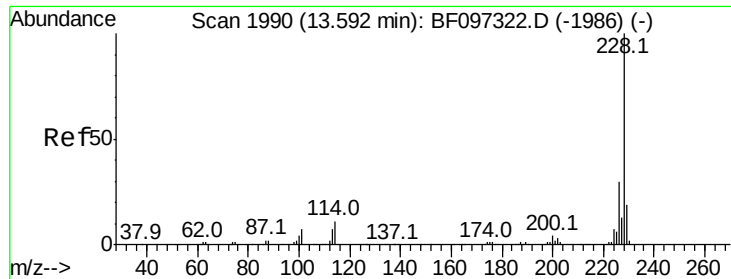
Delta R.T. 0.00 min

Lab File: BF097455.D

Acq: 8 Aug 2017 4:09

Tgt Ion:	228	Resp:	290756
Ion Ratio	Lower	Upper	
228	100		
226	27.9	22.6	33.8
229	19.5	16.3	24.5





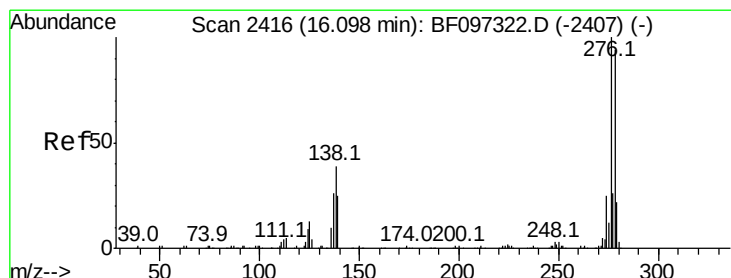
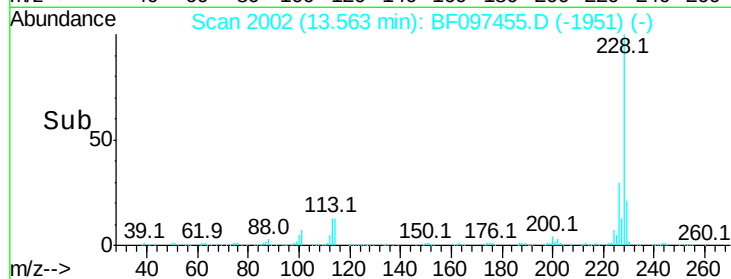
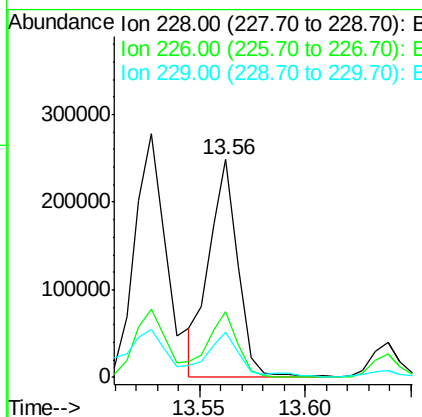
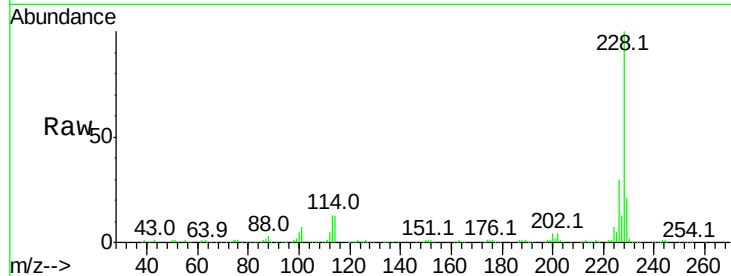
#82
Chrysene
Concen: 20.304 ng
RT: 13.56 min Scan# 2002
Delta R.T. 0.00 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-BDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.9	37.3
229	21.1	15.8	23.6

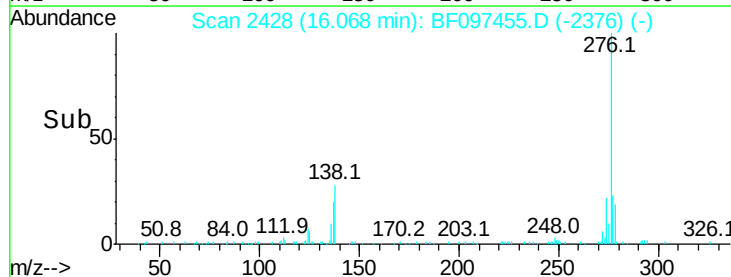
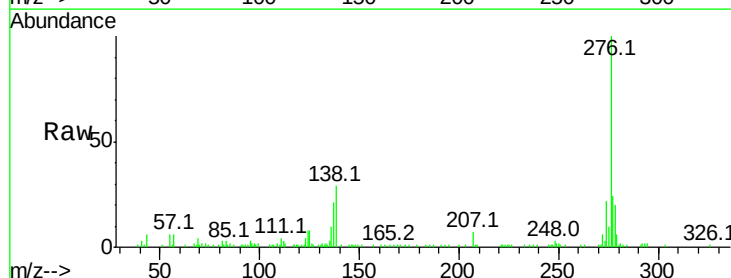
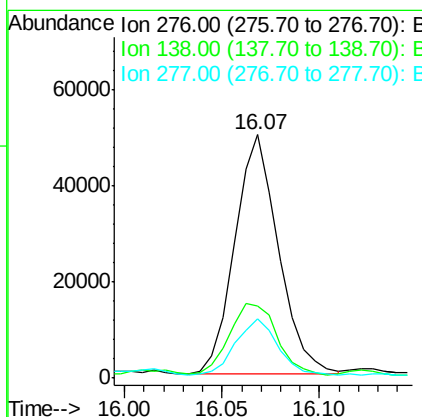
Manual Integrations
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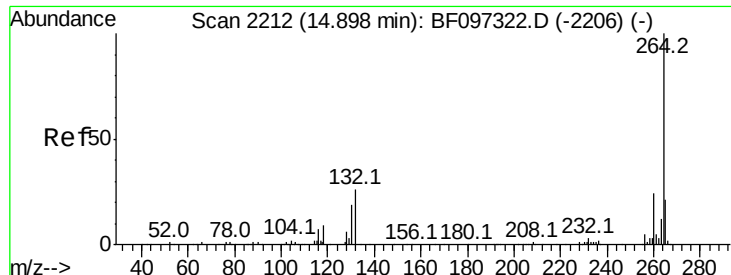
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 7.856 ng
RT: 16.07 min Scan# 2428
Delta R.T. 0.01 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Lower	Upper
276	100		
138	33.3	27.8	41.6
277	22.9	20.2	30.4





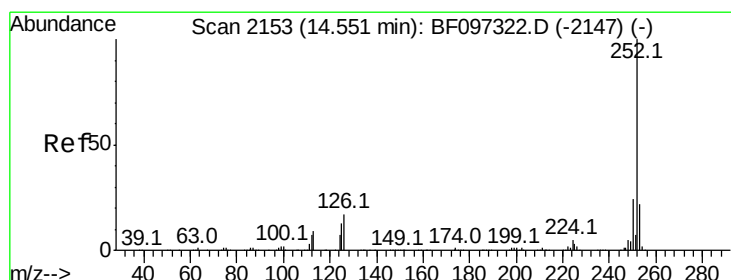
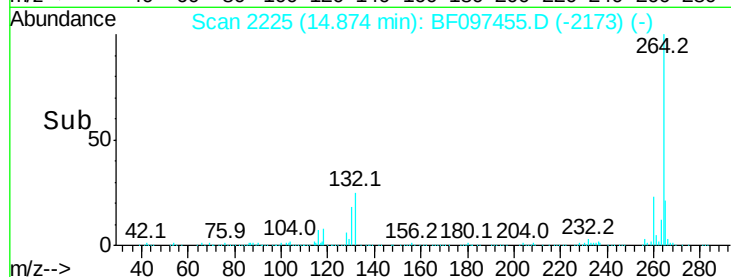
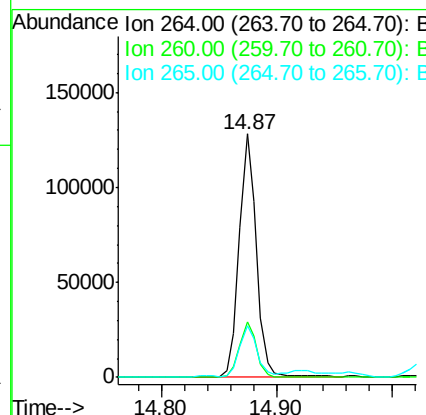
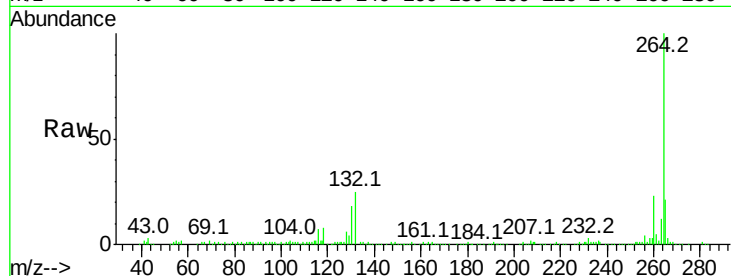
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.87 min Scan# 2225
Delta R.T. 0.01 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-BDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	21.4	17.2	25.8

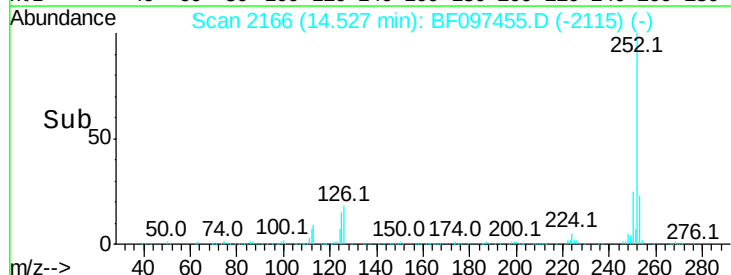
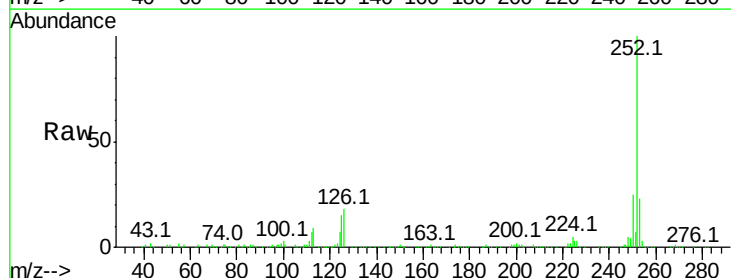
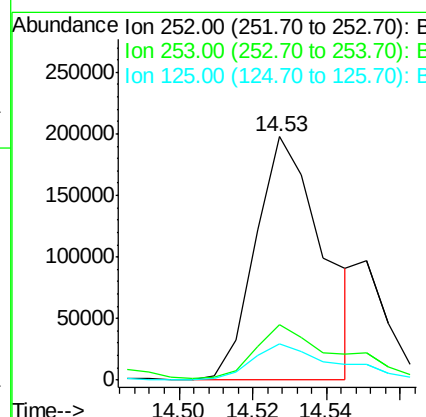
Manual Integrations
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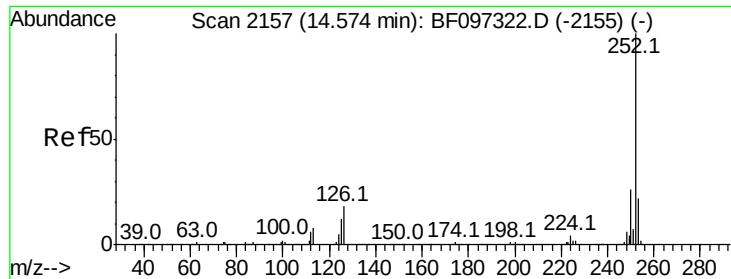
Sohil
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#87
Benzo(b)fluoranthene
Concen: 31.384 ng m
RT: 14.53 min Scan# 2166
Delta R.T. 0.00 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	15.0	9.8	14.8#





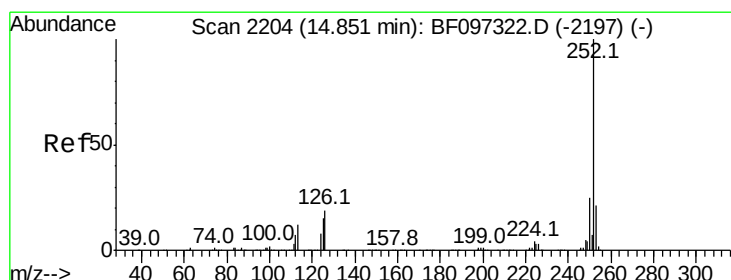
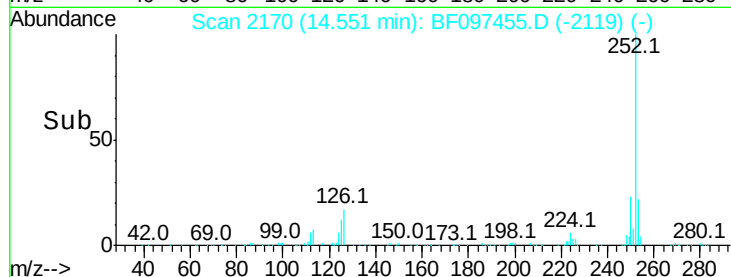
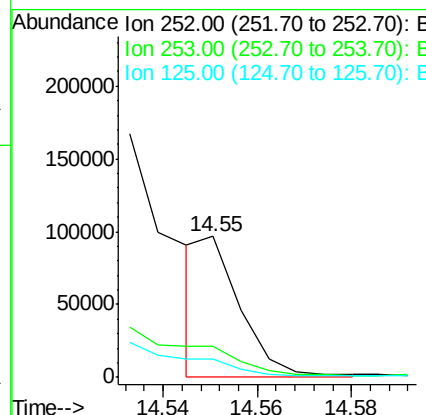
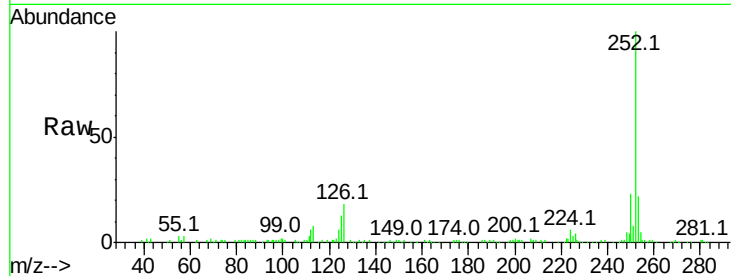
#88
Benzo(k)fluoranthene
Concen: 7.578 ng m
RT: 14.55 min Scan# 2170
Delta R.T. 0.00 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-BDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.4	27.6
125	12.8	13.1	19.7

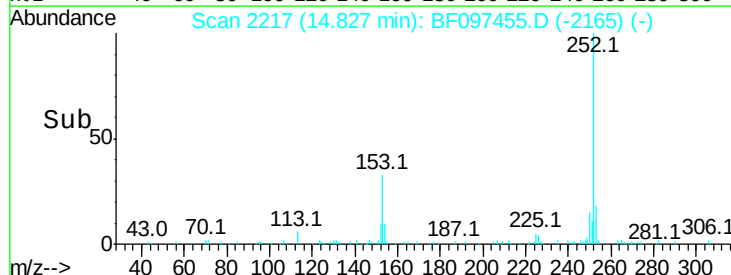
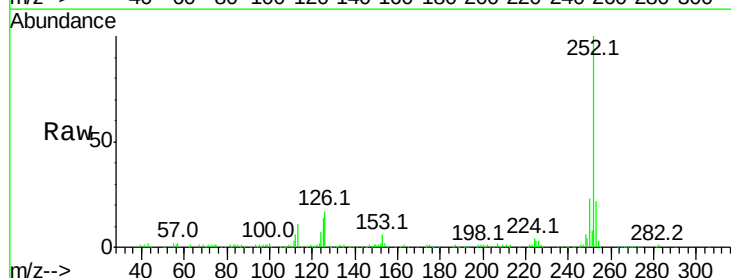
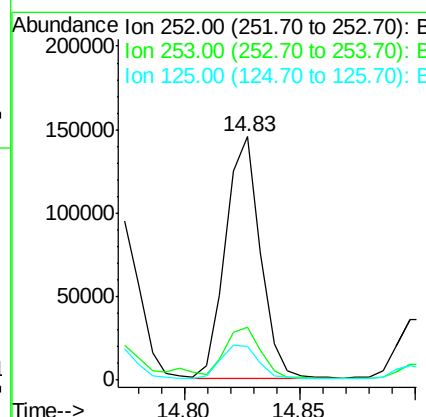
Manual Integrations
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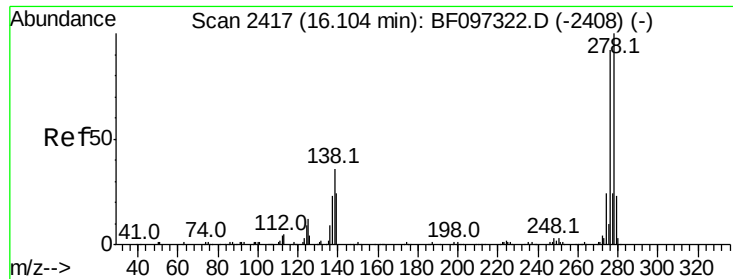
Sohil
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#89
Benzo(a)pyrene
Concen: 20.766 ng
RT: 14.83 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	14.1	11.0	16.4





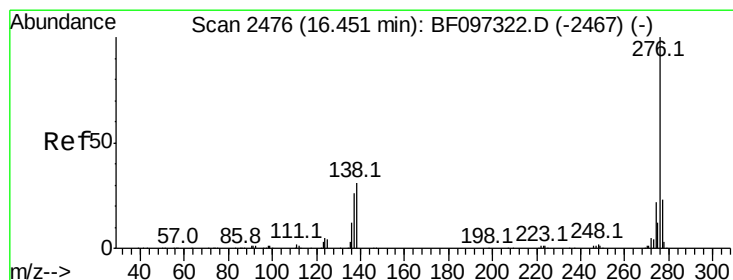
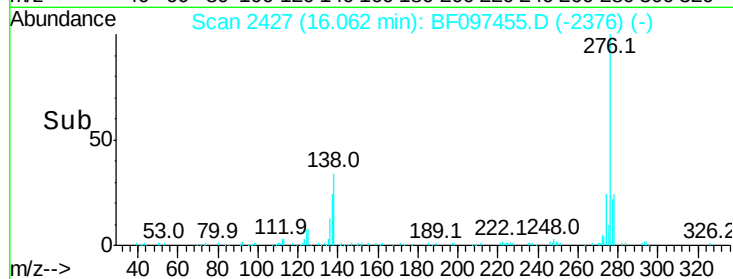
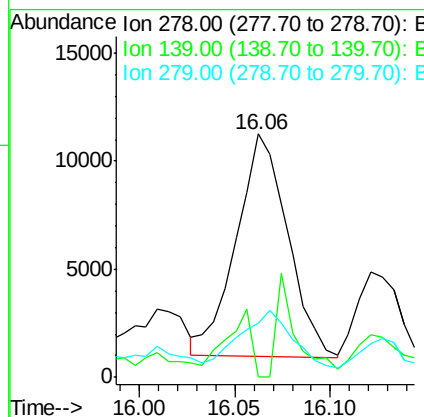
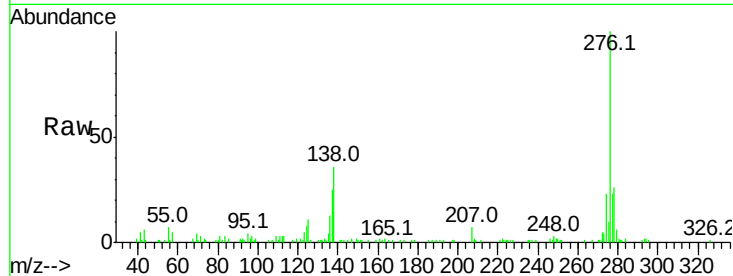
#90
Dibenzo(a,h)anthracene
Concen: 3.198 ng m
RT: 16.06 min Scan# 2427
Delta R.T. 0.00 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-BDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	22.1	19.3	28.9

Manual Integrations
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8/9/2017 9:21:44 PM



#91
Benzo(g,h,i)perylene
Concen: 11.588 ng
RT: 16.42 min Scan# 2488
Delta R.T. 0.01 min
Lab File: BF097455.D
Acq: 8 Aug 2017 4:09

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.6	28.0
138	35.7	25.4	38.0

