

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
 Data File : BF097146.D
 Acq On : 28 Jul 2017 11:25
 Operator : SJ/JU
 Sample : I4444-10 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-072517-D

Manual Integrations
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Quant Time: Jul 28 13:43:46 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	110736	20.00	ng	-0.01
21) Naphthalene-d8	7.77	136	490968	20.00	ng	-0.02
38) Acenaphthene-d10	9.52	164	198381	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	301970	20.00	ng	-0.01
75) Chrysene-d12	13.62	240	183284	20.00	ng	0.00
86) Perylene-d12	14.97	264	196588	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.08	112	158823	21.62	ng	-0.02
7) Phenol-d6	6.15	99	190923	22.77	ng	-0.02
23) Nitrobenzene-d5	7.05	82	124924	14.93	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	32541	20.76	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	189483	16.21	ng	-0.02
78) Terphenyl-d14	12.57	244	104584	11.63	ng	-0.02

Target Compounds

						Qvalue
31) Naphthalene	7.79	128	341205	14.743	ng	99
37) 2-Methylnaphthalene	8.48	142	92310	6.300	ng	98
48) Acenaphthylene	9.37	152	52184	2.727	ng	95
49) Dimethylphthalate	9.25	163	30561	2.029	ng	99
51) Acenaphthene	9.55	154	138871	12.318	ng	99
54) Dibenzofuran	9.72	168	186397	12.413	ng	96
57) Fluorene	10.06	166	246337	21.826	ng	98
59) Diethylphthalate	9.95	149	34991	2.532	ng	99
70) Phenanthrene	11.02	178	1201924	74.286	ng	99
71) Anthracene	11.07	178	469064	28.306	ng	99
72) Carbazole	11.23	167	121447	7.452	ng	98
74) Fluoranthene	12.20	202	1332090	84.041	ng	98
77) Pylene	12.43	202	1163515	77.543	ng	99
80) Benzo(a)anthracene	13.61	228	622496	52.490	ng	98
82) Chrysene	13.64	228	502812	43.420	ng	97
85) Indeno(1,2,3-cd)pyrene	16.19	276	309699	31.189	ng	92
87) Benzo(b)fluoranthene	14.62	252	739599m	62.586	ng	
88) Benzo(k)fluoranthene	14.63	252	236620m	21.013	ng	
89) Benzo(a)pyrene	14.92	252	534919	49.459	ng	98
90) Dibenzo(a,h)anthracene	16.20	278	81504	9.190	ng	96
91) Benzo(g,h,i)perylene	16.56	276	256774	27.607	ng	97

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

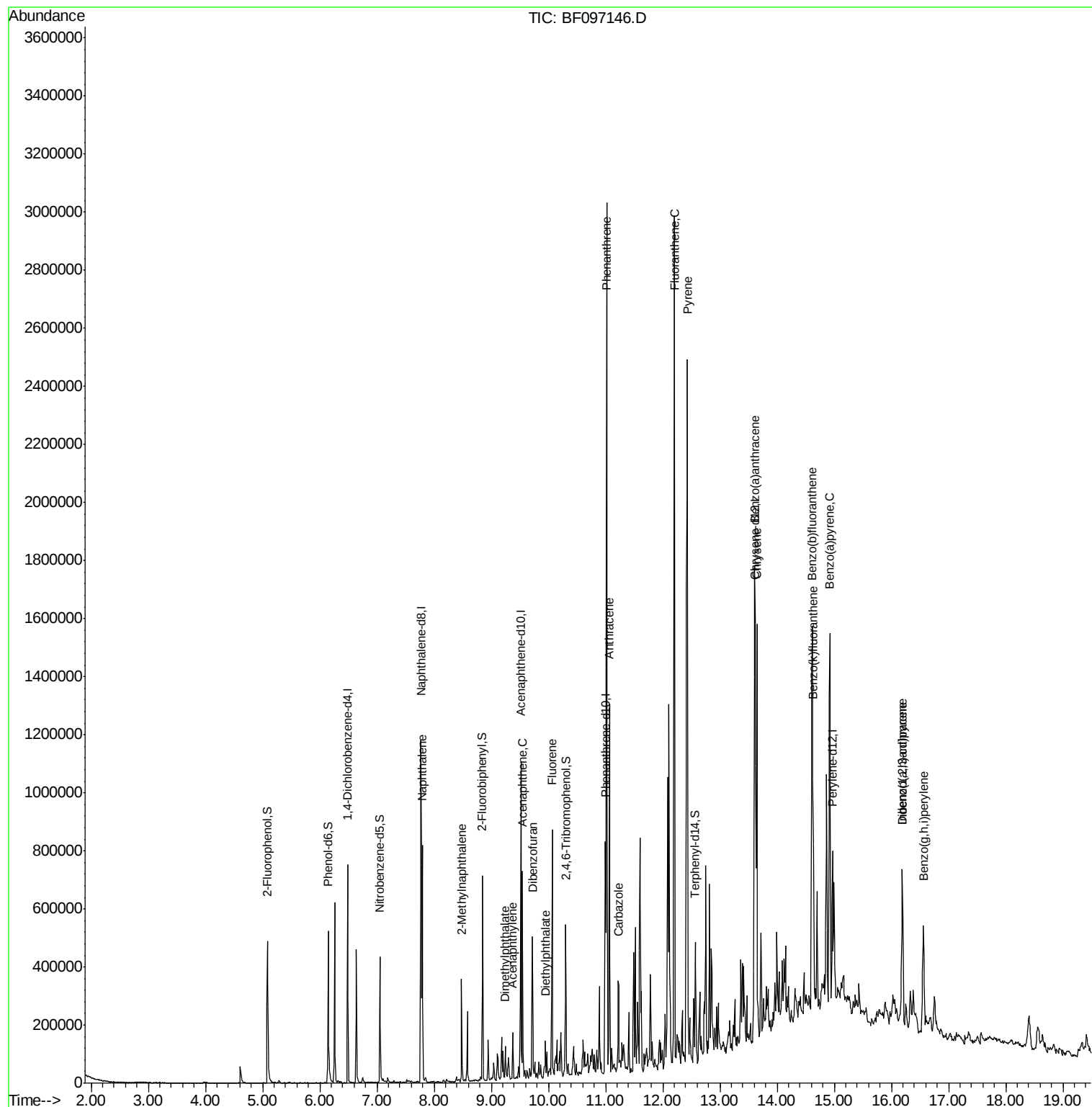
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
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ALS Vial : 6 Sample Multiplier: 1

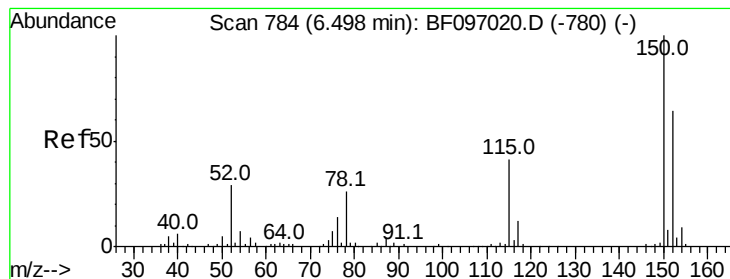
Instrument :
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EO-02-072517-D

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#1

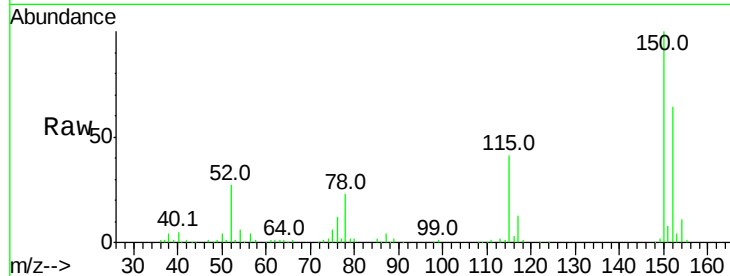
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.49 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Instrument :
BNA_F
ClientSampleId :
EO-02-072517-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.2	189.2
115	63.5	52.2	78.2

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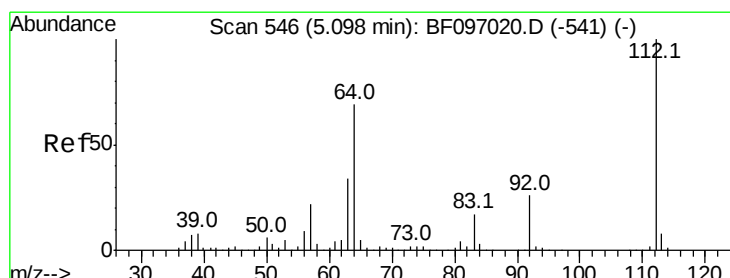
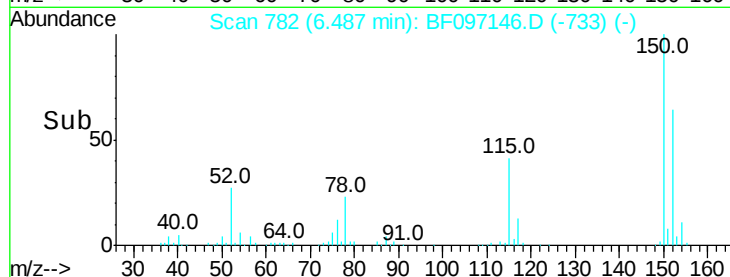
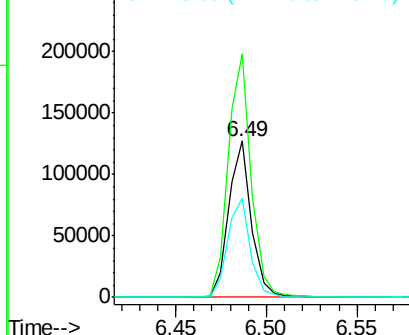


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

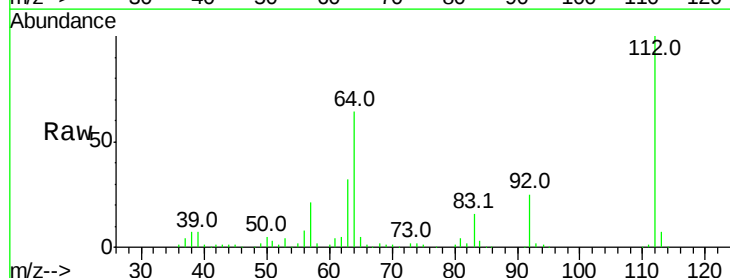
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 21.621 ng
RT: 5.08 min Scan# 543
Delta R.T. -0.02 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.0	46.0	69.0
63	31.6	23.4	35.0

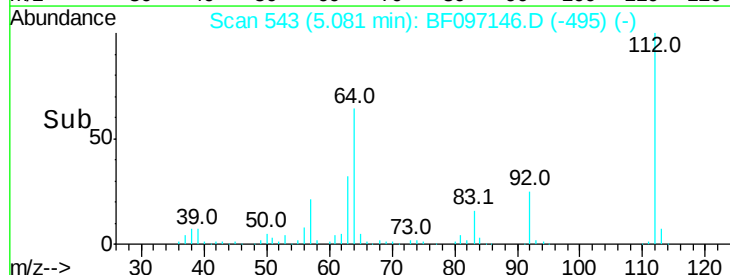
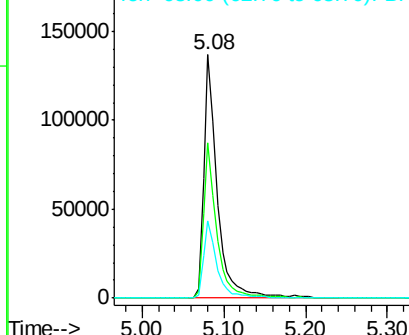


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 22.767 ng

RT: 6.15 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Instrument :

BNA_F

ClientSampleId :

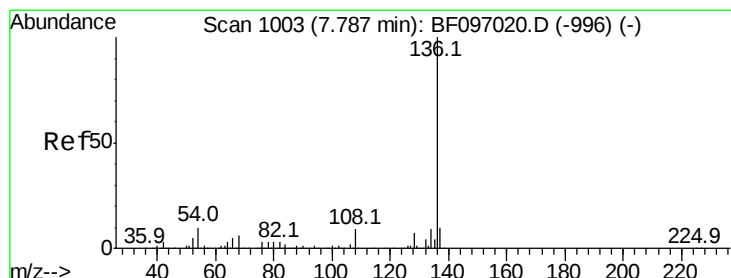
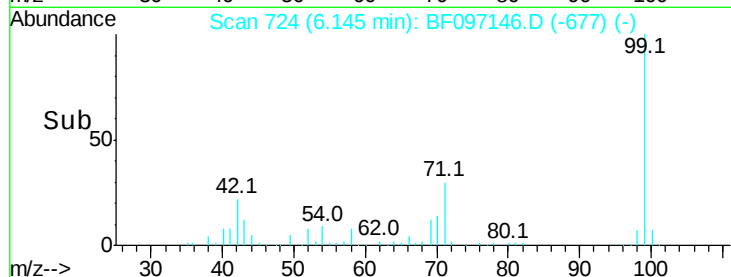
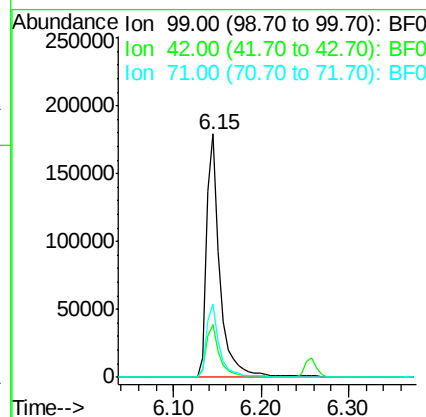
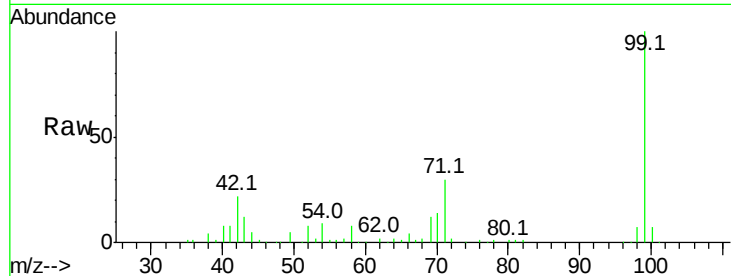
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		190923		
42	21.8	13.5	20.3#		
71	30.3	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.000 ng

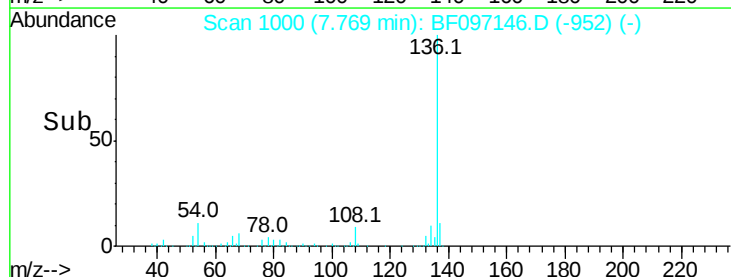
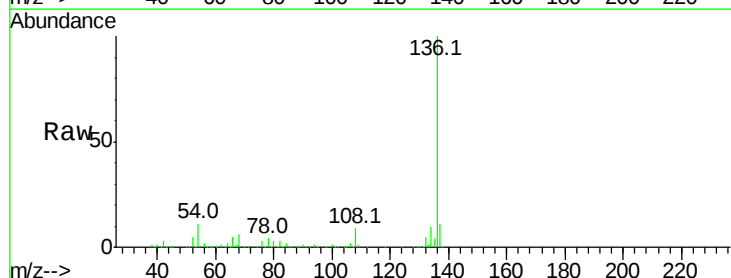
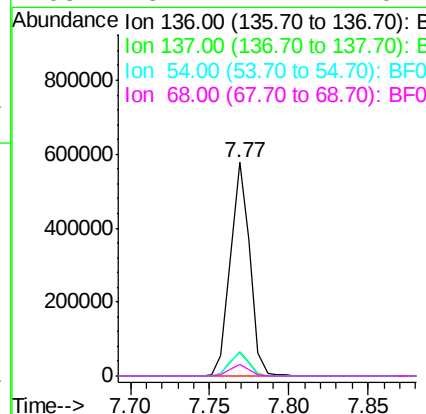
RT: 7.77 min Scan# 1000

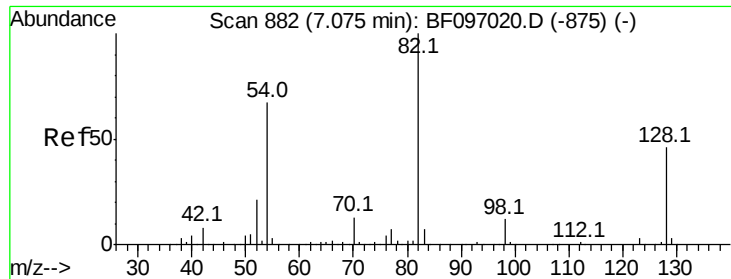
Delta R.T. -0.02 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		490968		
137	11.1	8.5	12.7		
54	10.8	4.9	7.3#		
68	5.7	4.1	6.1		





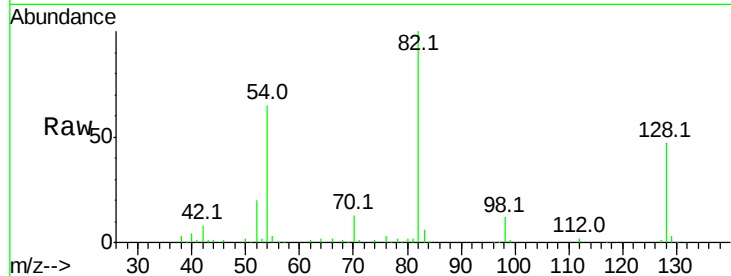
#23
Nitrobenzene-d5
Concen: 14.927 ng
RT: 7.05 min Scan# 878
Delta R.T. -0.02 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Instrument :
BNA_F
ClientSampleId :
EO-02-072517-D

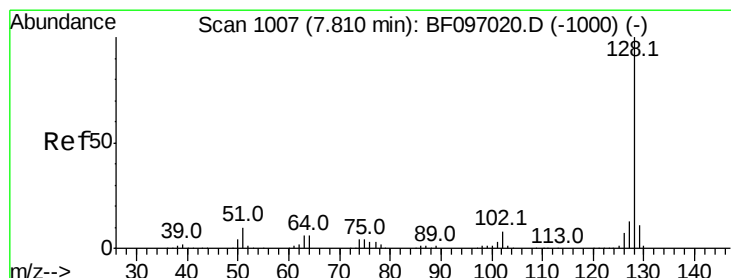
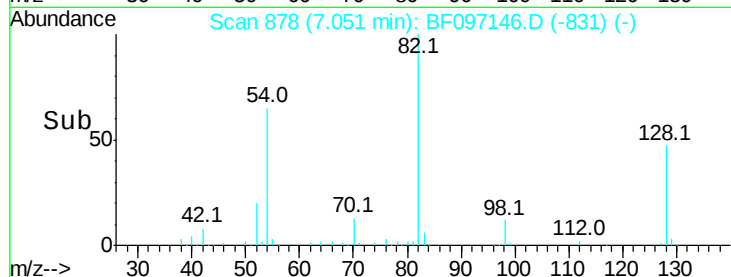
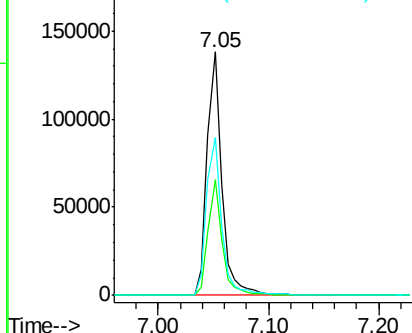
Tot Ion	Ratio	Lower	Upper
82	100		
128	47.3	34.0	51.0
54	64.9	42.2	63.2#

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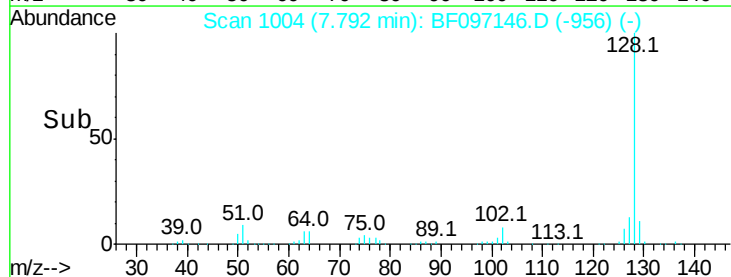
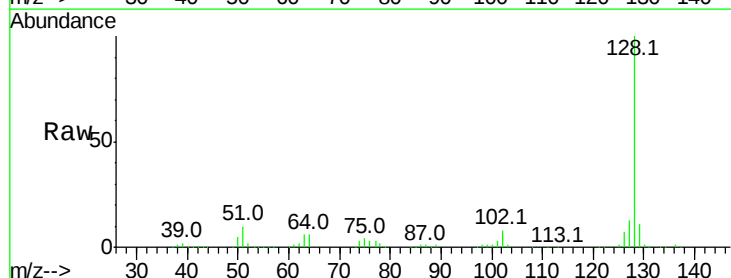
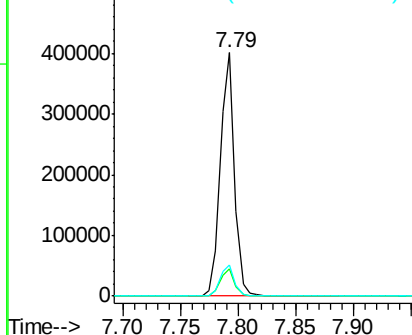
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

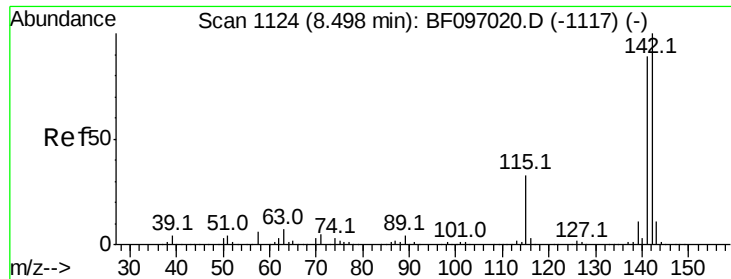


#31
Naphthalene
Concen: 14.743 ng
RT: 7.79 min Scan# 1004
Delta R.T. -0.02 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	12.8	10.8	16.2

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





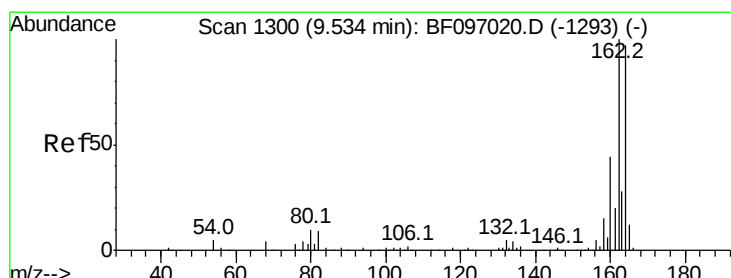
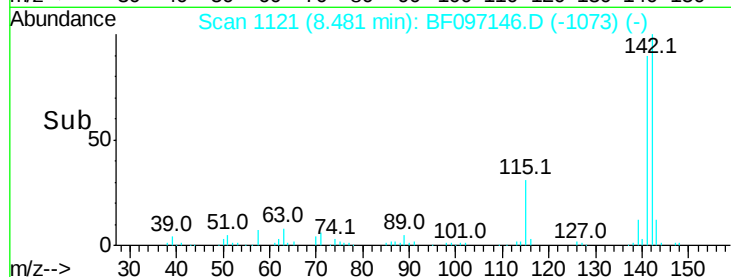
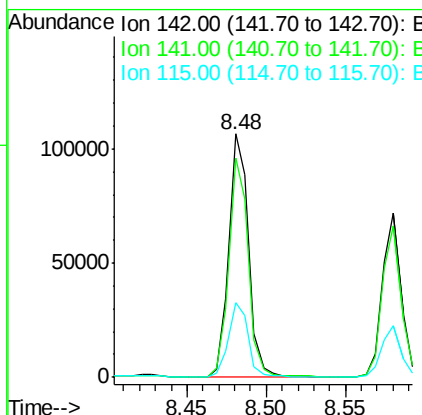
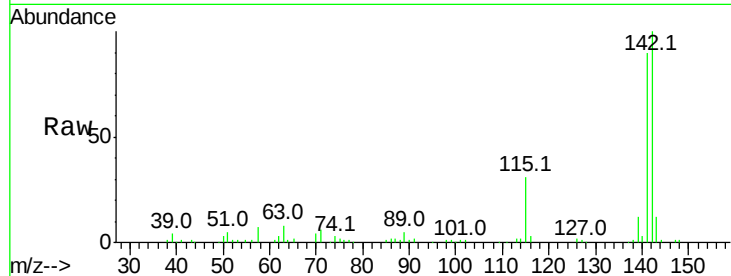
#37
 2-Methylnaphthalene
 Concen: 6.300 ng
 RT: 8.48 min Scan# 1121
 Delta R.T. -0.02 min
 Lab File: BF097146.D
 Acq: 28 Jul 2017 11:25

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-072517-D

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.3	106.9
115	30.9	27.1	40.7

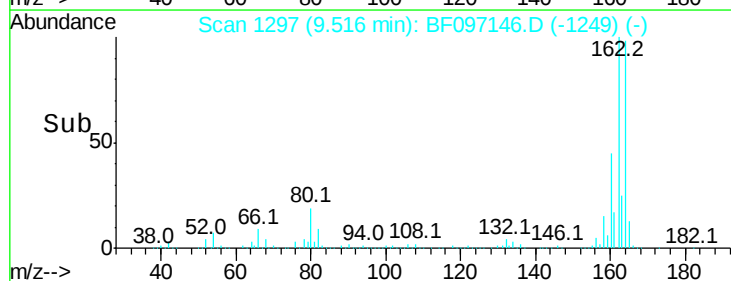
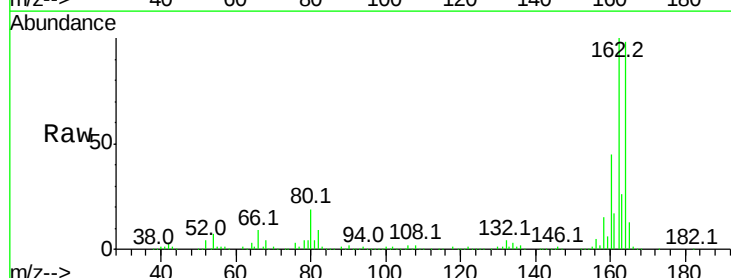
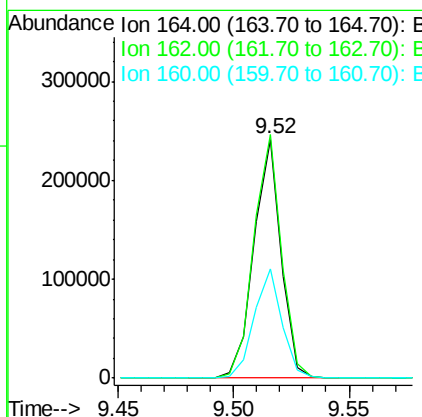
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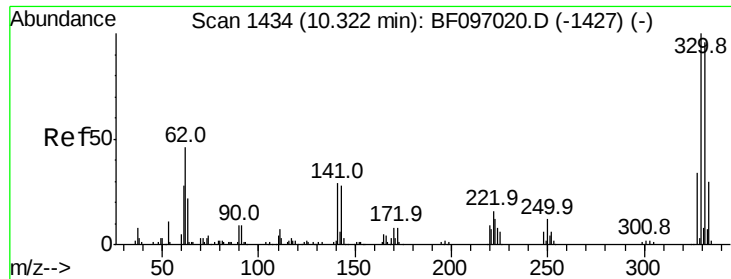
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.52 min Scan# 1297
 Delta R.T. -0.02 min
 Lab File: BF097146.D
 Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.6	123.8
160	45.7	36.2	54.2





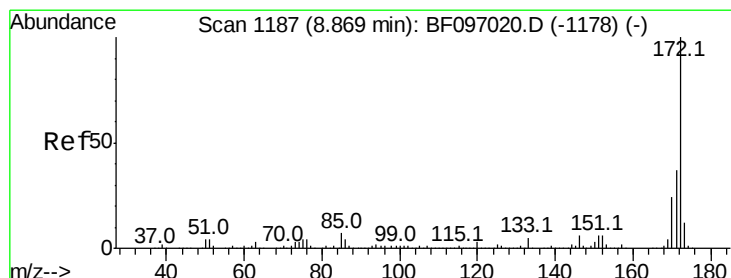
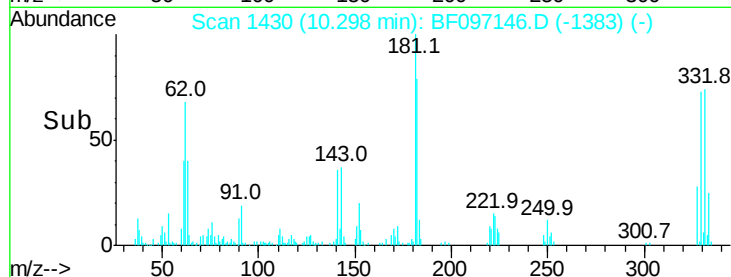
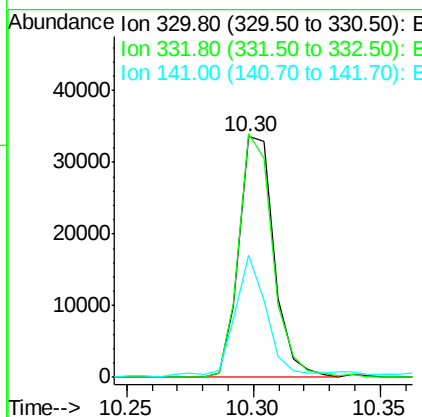
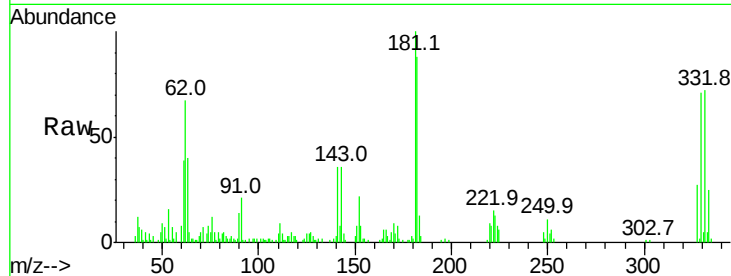
#41
 2,4,6-Tribromophenol
 Concen: 20.761 ng
 RT: 10.30 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF097146.D
 Acq: 28 Jul 2017 11:25

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-072517-D

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.3	76.6	115.0	
141	46.7	31.4	47.2	

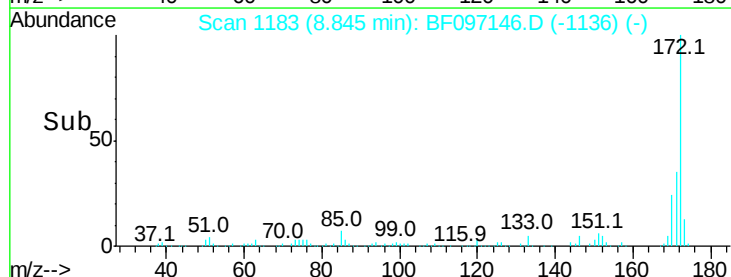
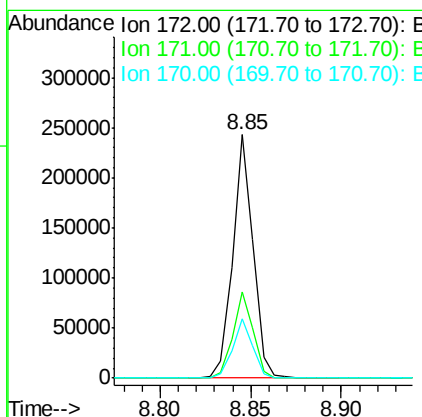
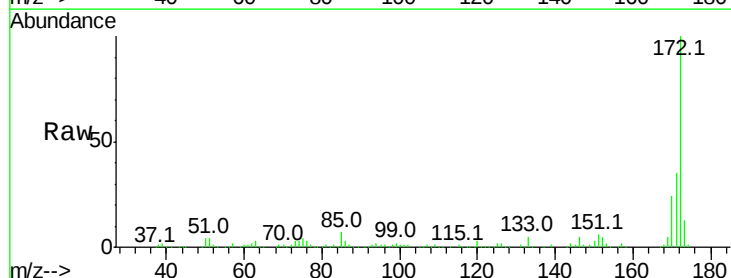
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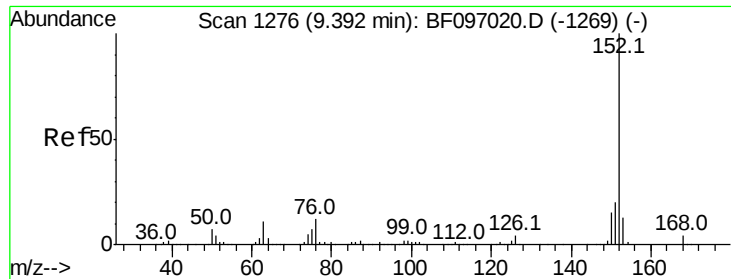
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#44
 2-Fluorobiphenyl
 Concen: 16.210 ng
 RT: 8.85 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF097146.D
 Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.5	29.6	44.4	
170	24.2	19.8	29.8	





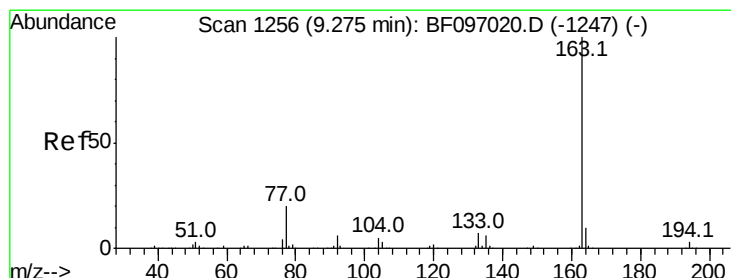
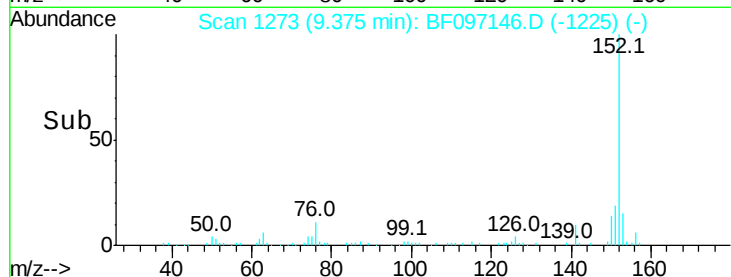
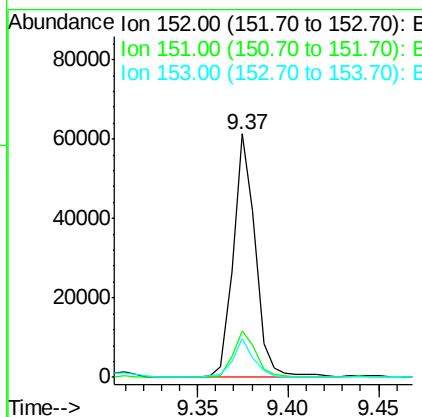
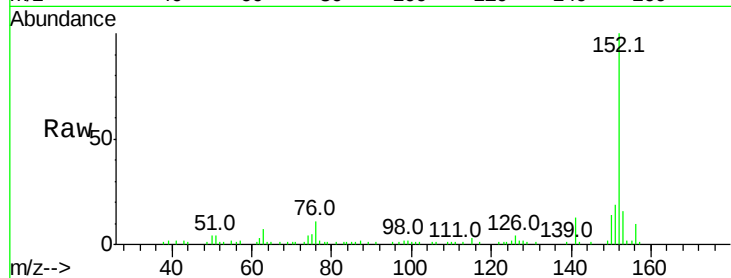
#48
Acenaphthylene
Concen: 2.727 ng
RT: 9.37 min Scan# 1273
Delta R.T. -0.02 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Instrument :
BNA_F
ClientSampleId :
EO-02-072517-D

Tot Ion	Ratio	Resp	Lower	Upper
152	100	52184		
151	19.0		16.8	25.2
153	15.9		10.8	16.2

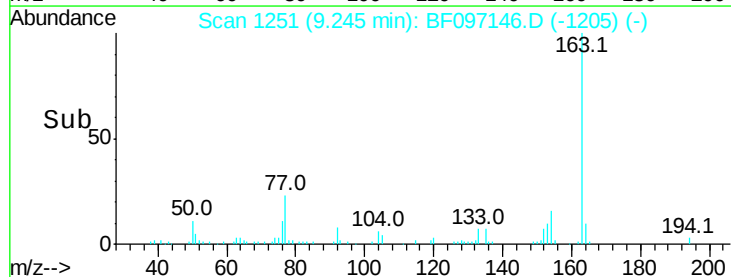
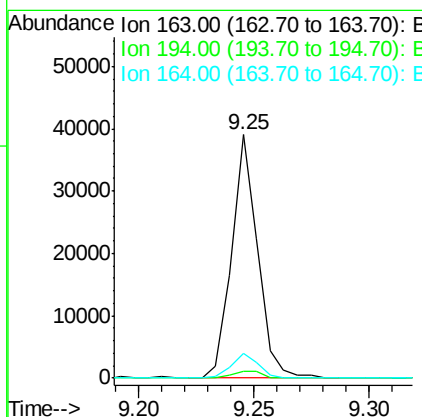
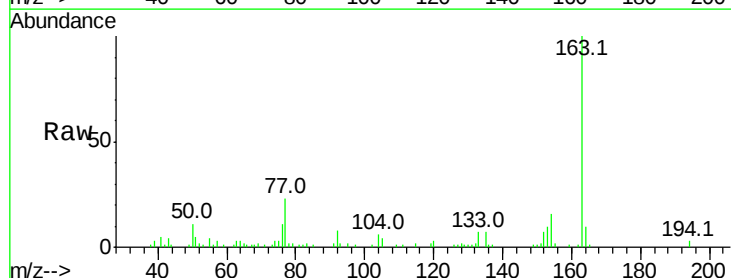
Manual Integrations
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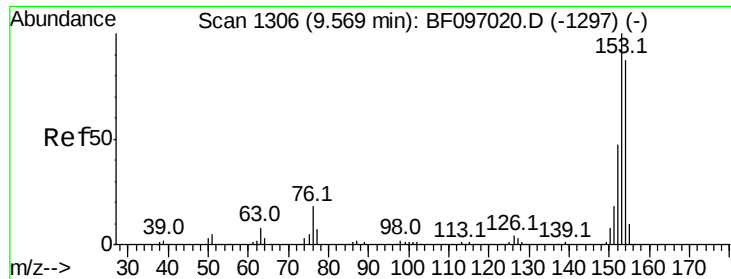
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#49
Dimethylphthalate
Concen: 2.029 ng
RT: 9.25 min Scan# 1251
Delta R.T. -0.03 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	30561		
194	2.9		2.6	4.0
164	10.0		8.4	12.6





#51

Acenaphthene

Concen: 12.318 ng

RT: 9.55 min Scan# 1302

Delta R.T. -0.02 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Instrument :

BNA_F

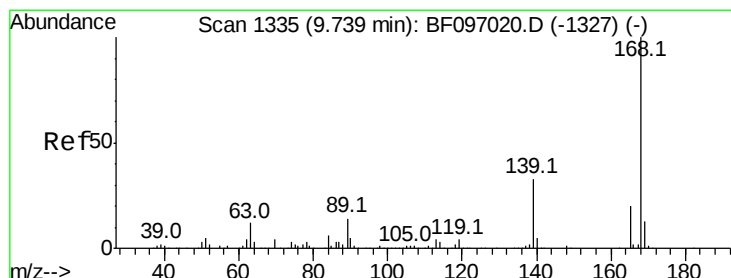
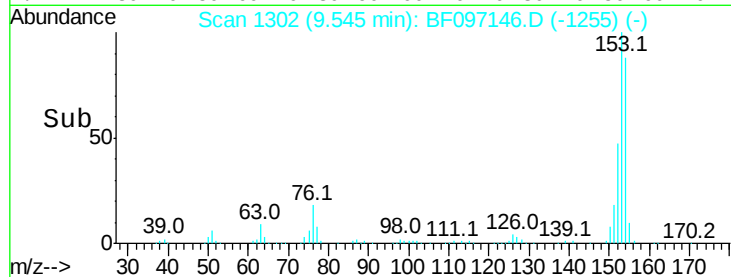
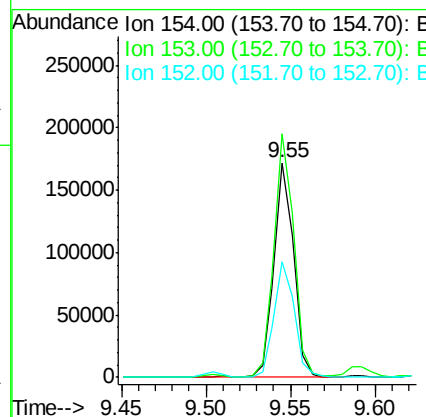
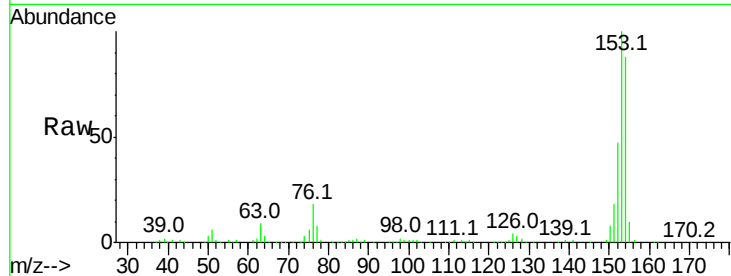
ClientSampleId :

EO-02-072517-D

Tot Ion:	154	Resp:	138871
Ion Ratio	Lower	Upper	
154	100		
153	113.4	90.5	135.7
152	53.8	43.6	65.4

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#54

Dibenzofuran

Concen: 12.413 ng

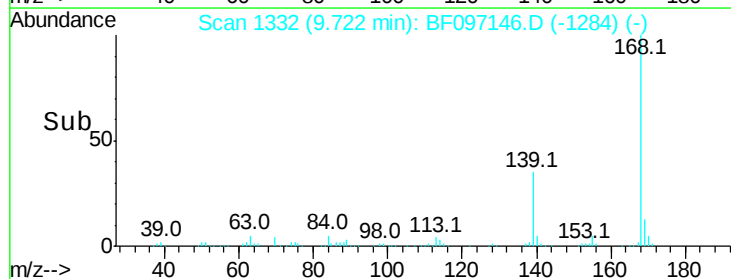
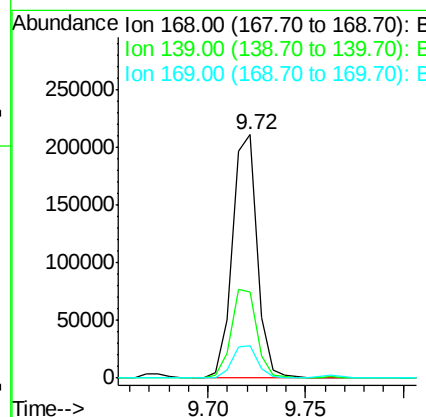
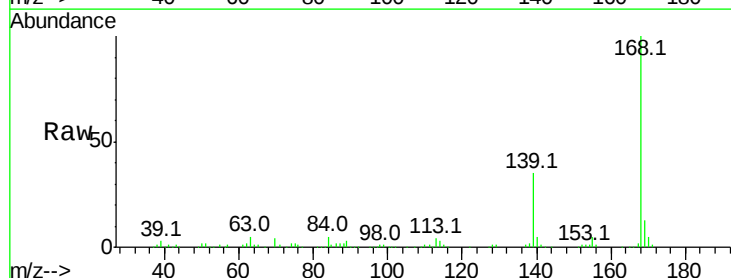
RT: 9.72 min Scan# 1332

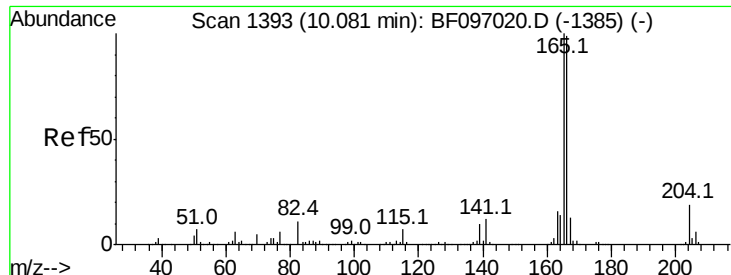
Delta R.T. -0.02 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Tgt Ion:	168	Resp:	186397
Ion Ratio	Lower	Upper	
168	100		
139	35.2	30.6	45.8
169	13.5	10.8	16.2





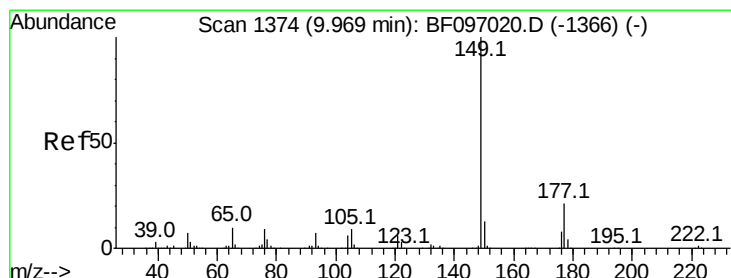
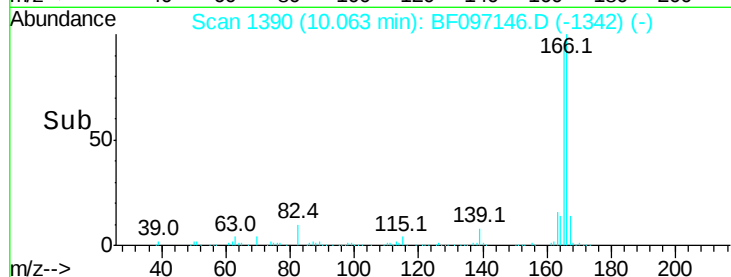
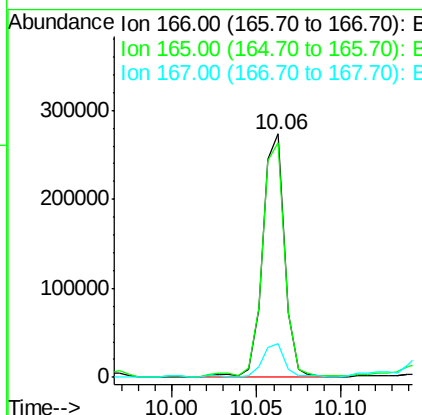
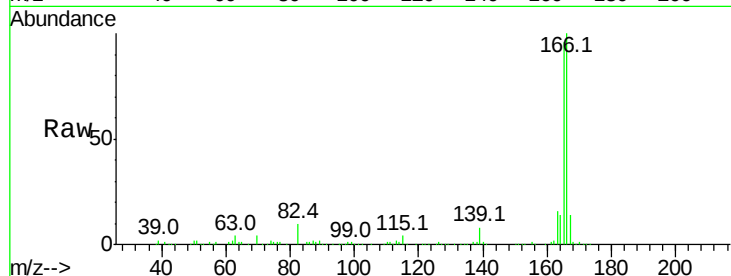
#57
Fluorene
 Concen: 21.826 ng
 RT: 10.06 min Scan# 1390
 Delta R.T. -0.02 min
 Lab File: BF097146.D
 Acq: 28 Jul 2017 11:25

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-072517-D

Tot Ion	Ratio	Resp	Lower	Upper
166	100	246337		
165	96.4	78.8	118.2	
167	13.8	10.6	16.0	

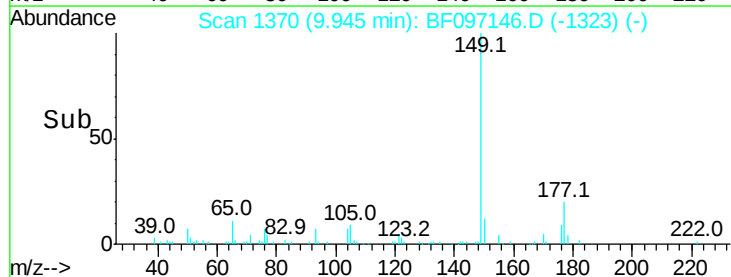
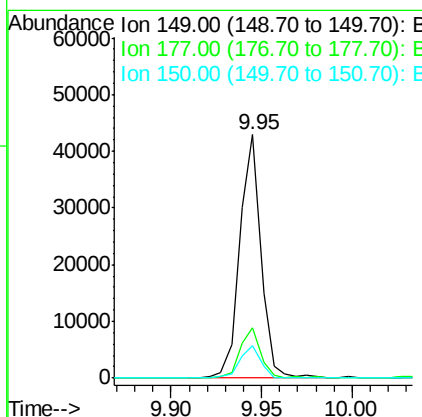
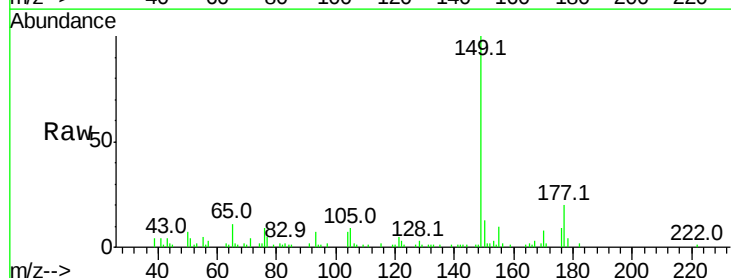
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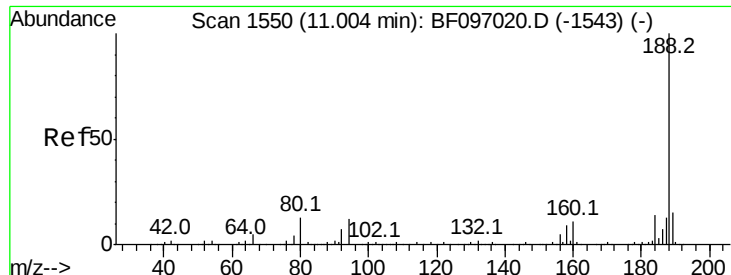
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#59
Diethylphthalate
 Concen: 2.532 ng
 RT: 9.95 min Scan# 1370
 Delta R.T. -0.02 min
 Lab File: BF097146.D
 Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	34991		
177	20.5	16.7	25.1	
150	13.2	10.2	15.2	





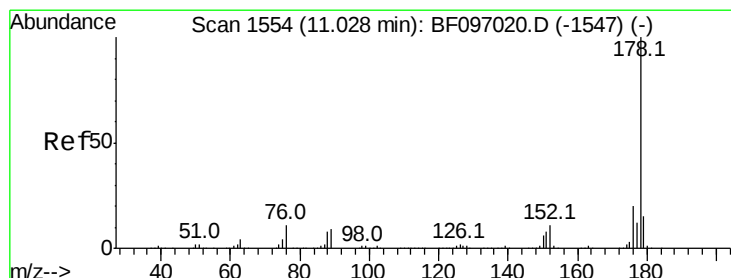
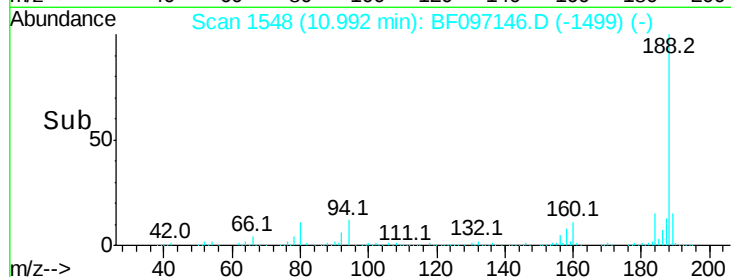
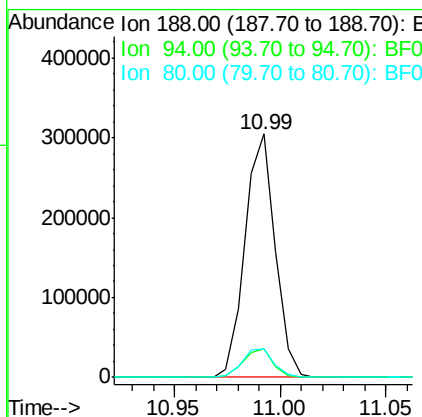
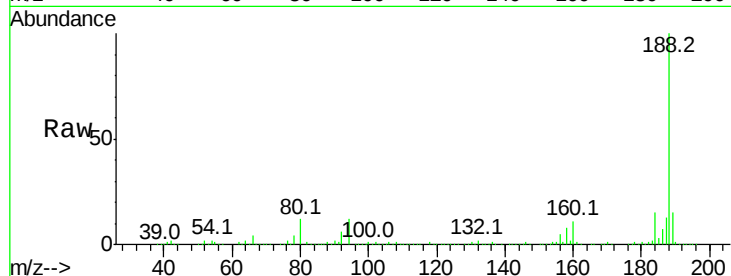
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.99 min Scan# 1548
Delta R.T. -0.01 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Instrument :
BNA_F
ClientSampleId :
EO-02-072517-D

Tot Ion	Ratio	Resp	Lower	Upper
188	100	301970		
94	11.5		9.4	14.2
80	11.6		10.2	15.2

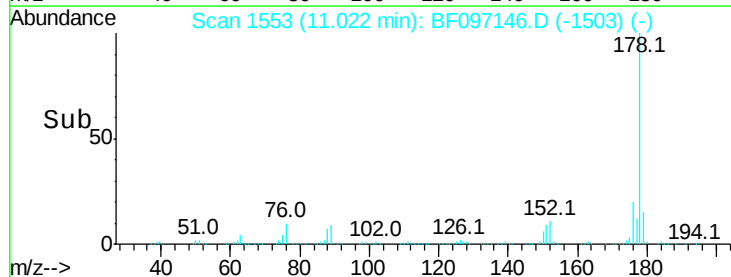
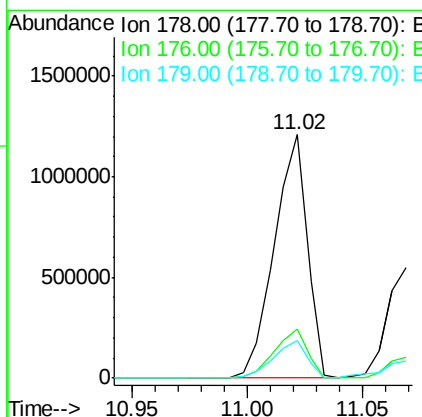
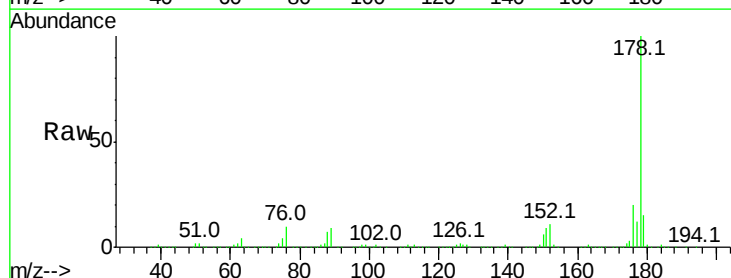
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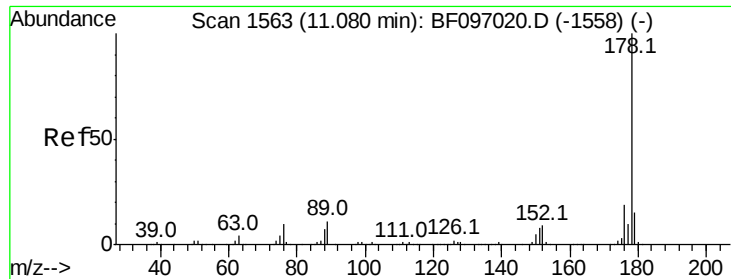
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#70
Phenanthrene
Concen: 74.286 ng
RT: 11.02 min Scan# 1553
Delta R.T. -0.01 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1201924		
176	20.3		16.2	24.4
179	15.2		12.6	19.0





#71

Anthracene

Concen: 28.306 ng

RT: 11.07 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Instrument :

BNA_F

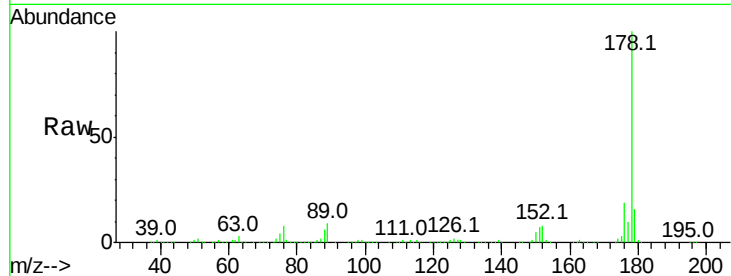
ClientSampleId :

EO-02-072517-D

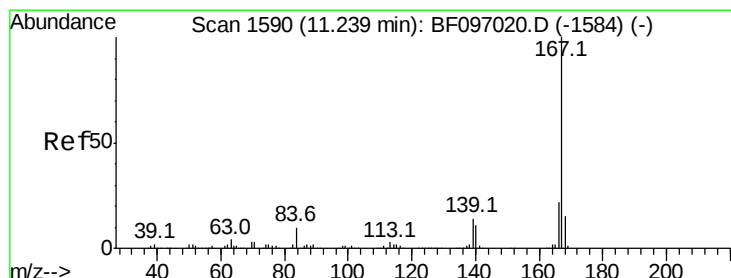
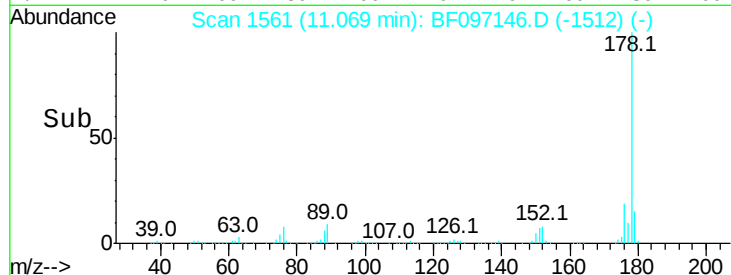
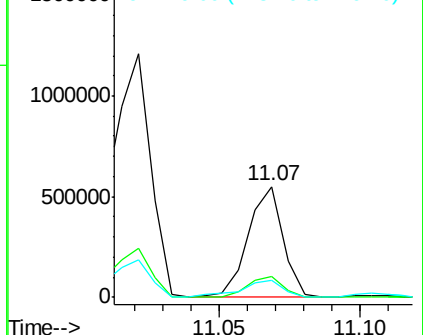
Tot Ion:	178	Resp:	469064
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.8	23.8
179	15.6	12.7	19.1

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 7.452 ng

RT: 11.23 min Scan# 1588

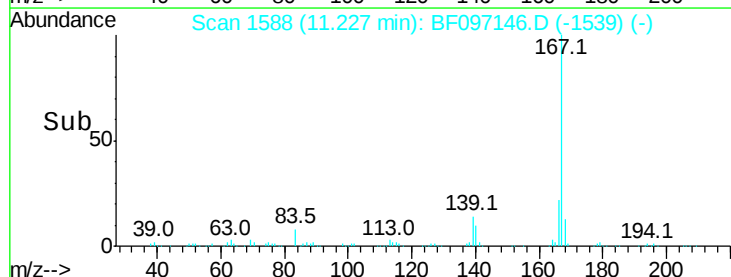
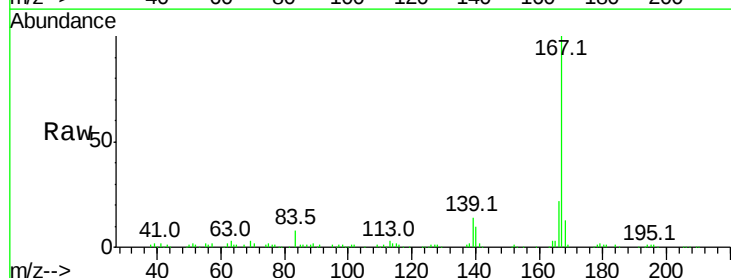
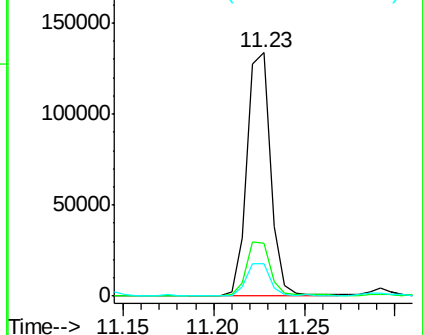
Delta R.T. -0.01 min

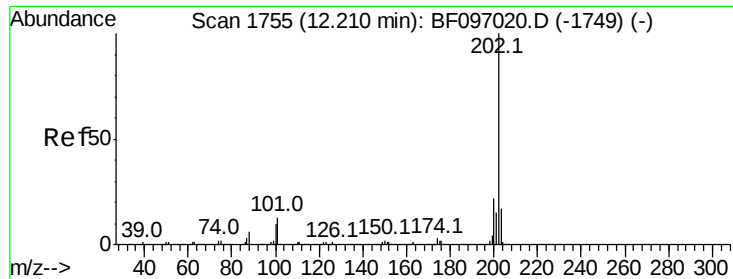
Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Tgt Ion:	167	Resp:	121447
Ion Ratio	Lower	Upper	
167	100		
166	21.8	18.1	27.1
139	13.5	11.7	17.5

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: 84.041 ng

RT: 12.20 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Instrument :

BNA_F

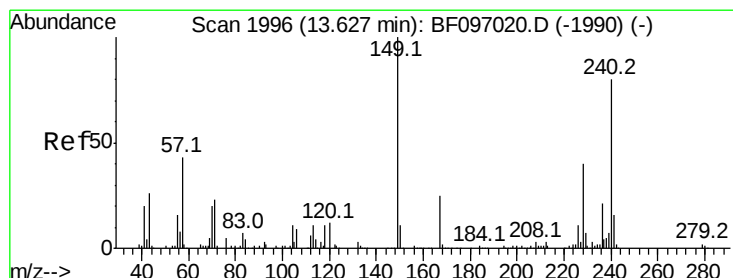
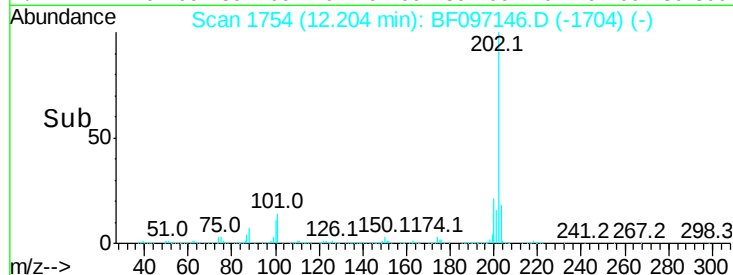
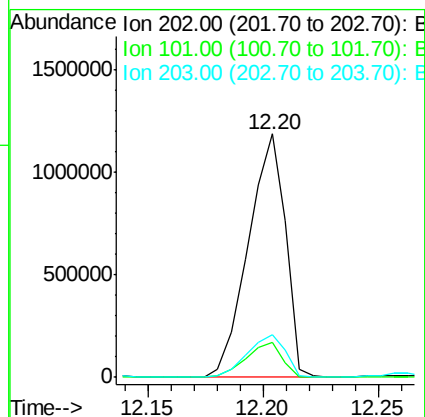
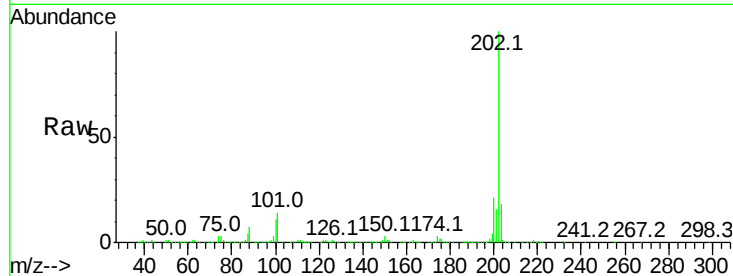
ClientSampleId :

EO-02-072517-D

Tot Ion:	202	Resp:	1332090
Ion Ratio	Lower	Upper	
202	100		
101	14.4	0.0	33.2
203	17.7	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

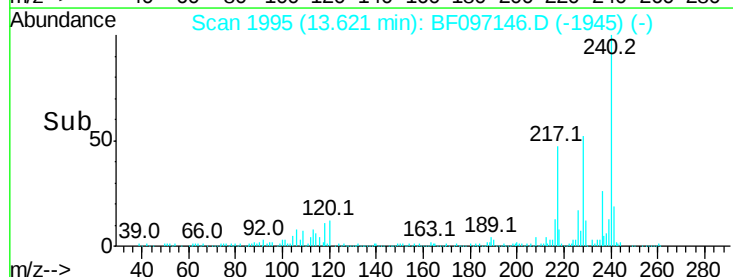
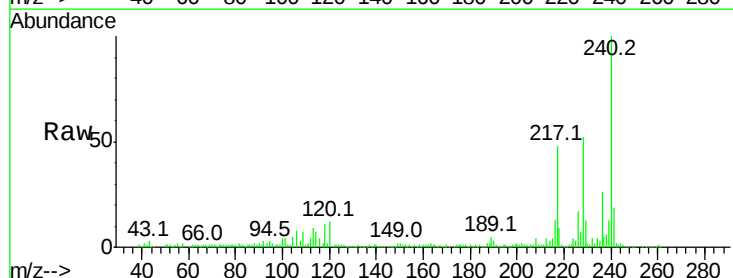
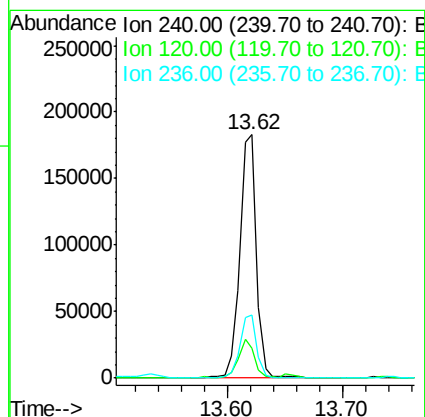
RT: 13.62 min Scan# 1995

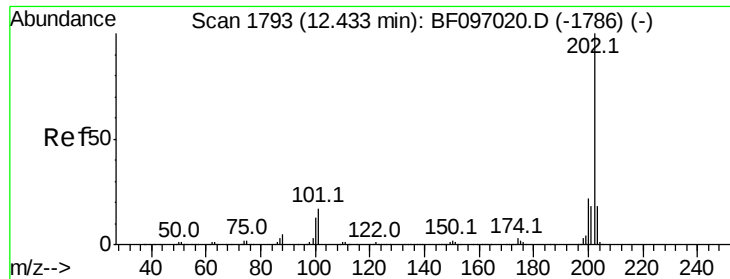
Delta R.T. -0.01 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Tgt Ion:	240	Resp:	183284
Ion Ratio	Lower	Upper	
240	100		
120	12.2	5.8	8.8#
236	26.0	20.5	30.7





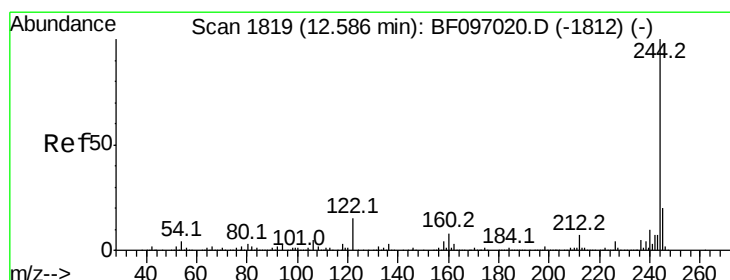
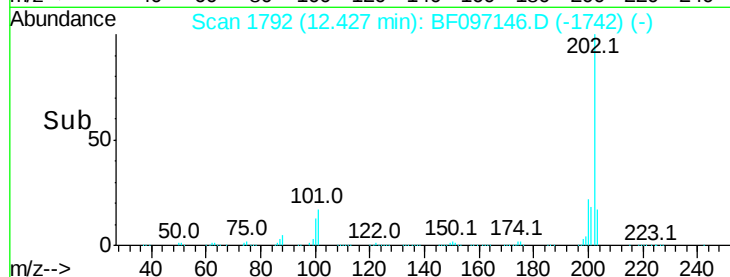
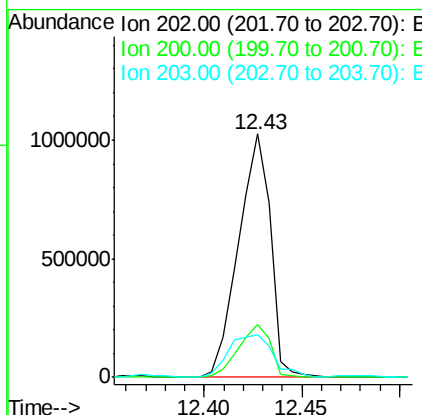
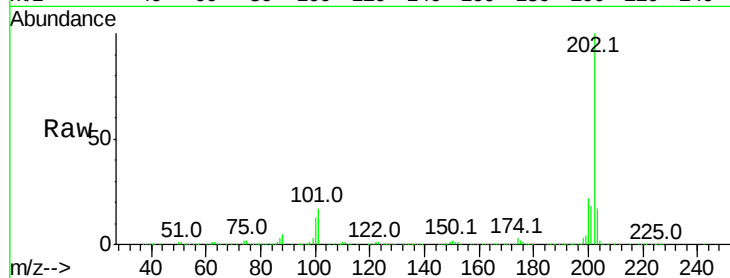
#77
Pvrene
Concen: 77.543 ng
RT: 12.43 min Scan# 1792
Delta R.T. -0.01 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Instrument :
BNA_F
ClientSampleId :
EO-02-072517-D

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.6	26.4
203	17.4	14.4	21.6

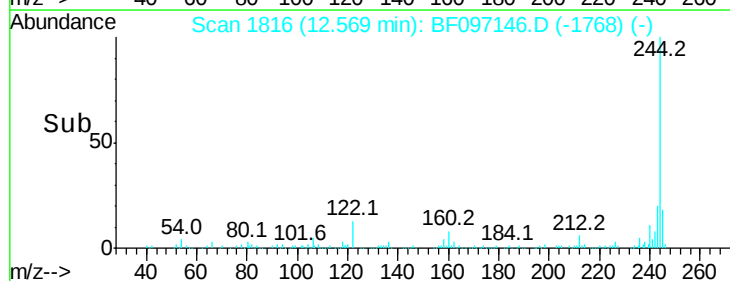
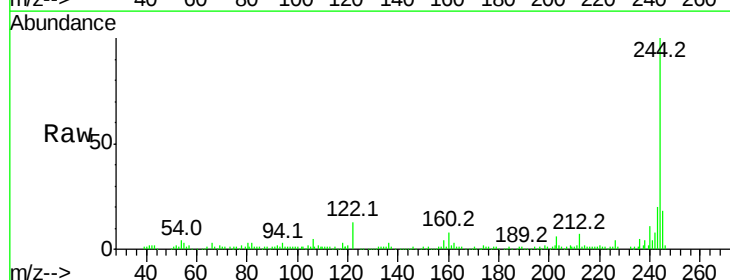
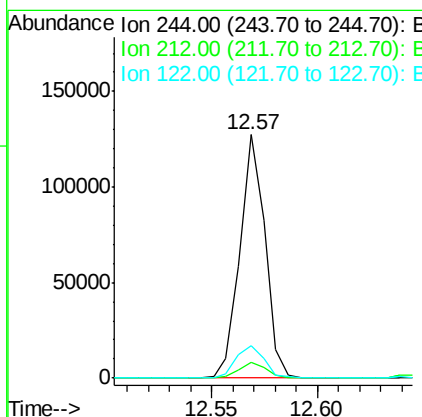
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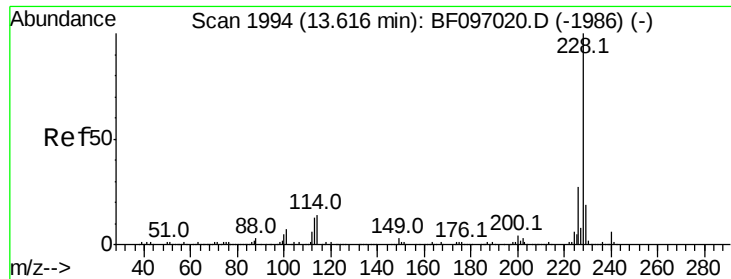
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#78
Terphenyl-d14
Concen: 11.634 ng
RT: 12.57 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.0	9.0
122	13.5	10.3	15.5





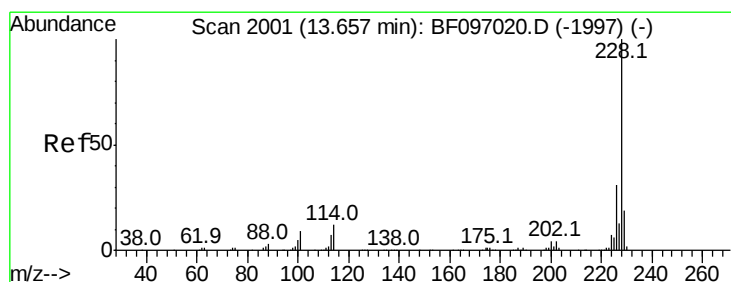
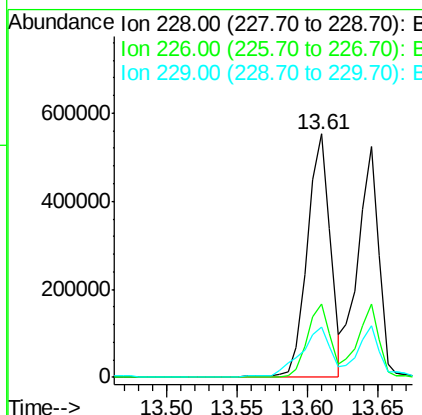
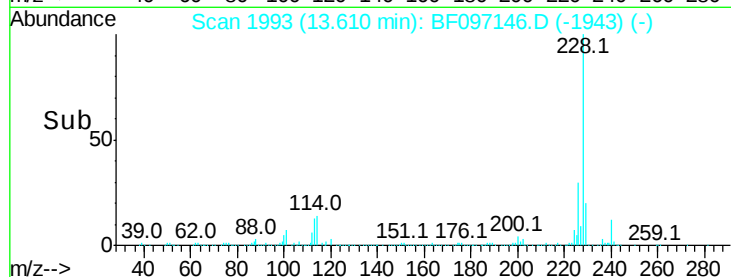
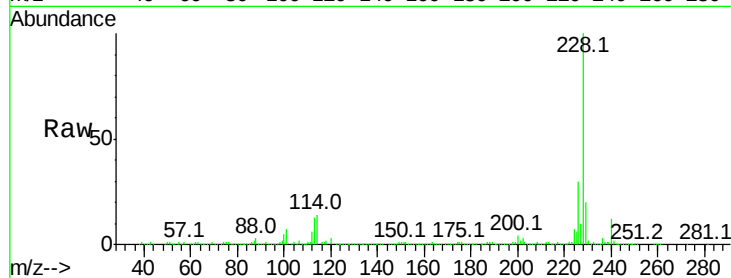
#80
Benzo(a)anthracene
Concen: 52.490 ng
RT: 13.61 min Scan# 1993
Delta R.T. -0.01 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Instrument :
BNA_F
ClientSampleId :
EO-02-072517-D

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.6	33.8
229	20.4	16.3	24.5

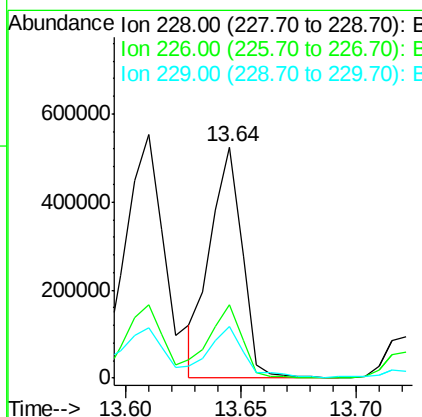
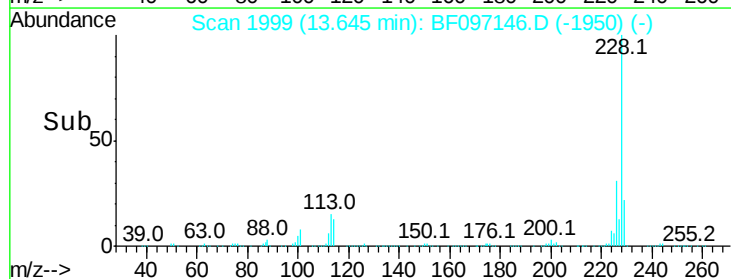
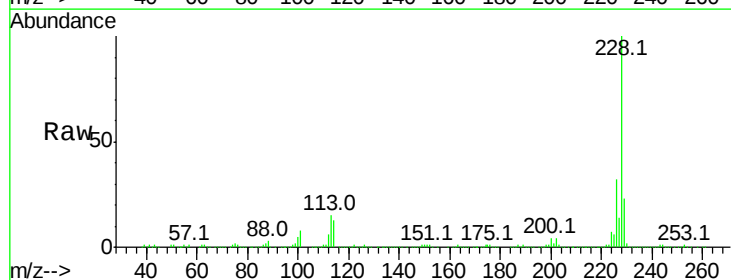
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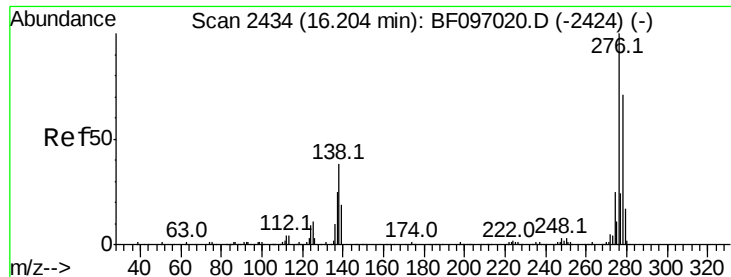
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#82
Chrysene
Concen: 43.420 ng
RT: 13.64 min Scan# 1999
Delta R.T. -0.01 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.9	37.3
229	22.5	15.8	23.6





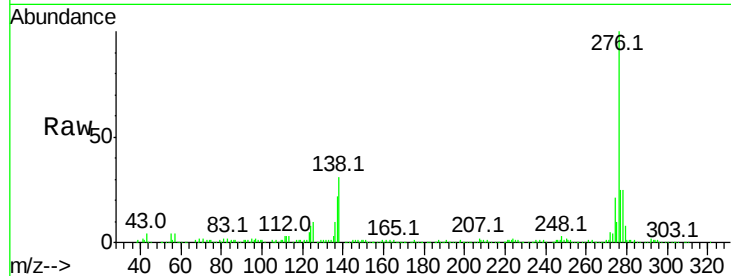
#85
Indeno(1,2,3-cd)pyrene
Concen: 31.189 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.01 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Instrument :
BNA_F
ClientSampleId :
EO-02-072517-D

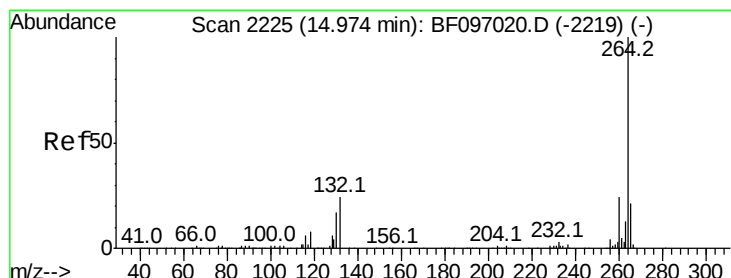
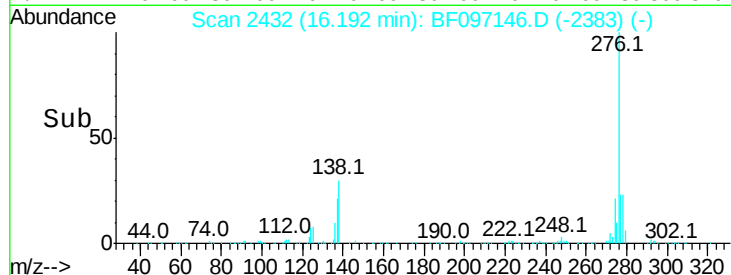
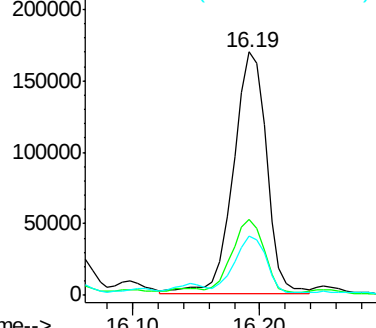
Tot Ion	Ratio	Lower	Upper
276	100		
138	30.1	27.8	41.6
277	21.8	20.2	30.4

Manual Integrations
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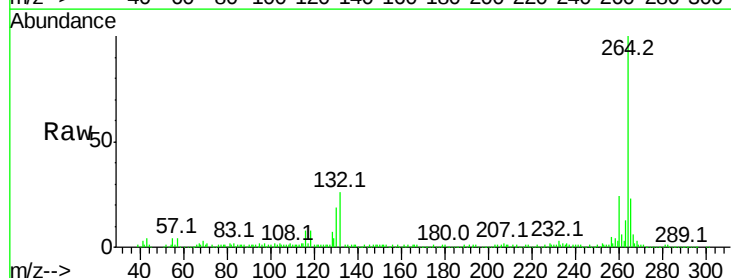


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

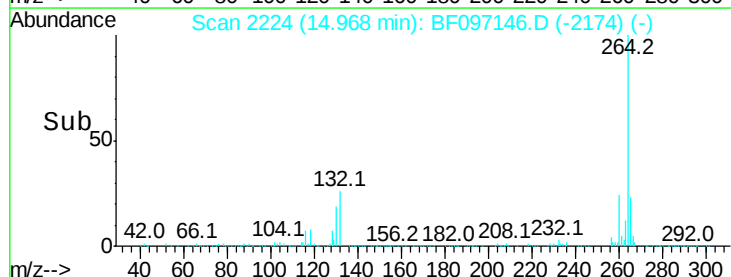
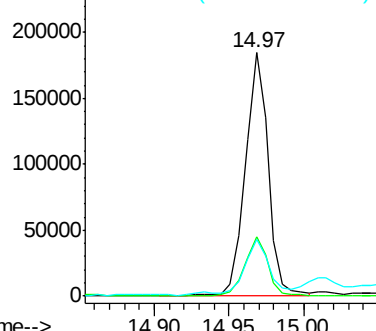


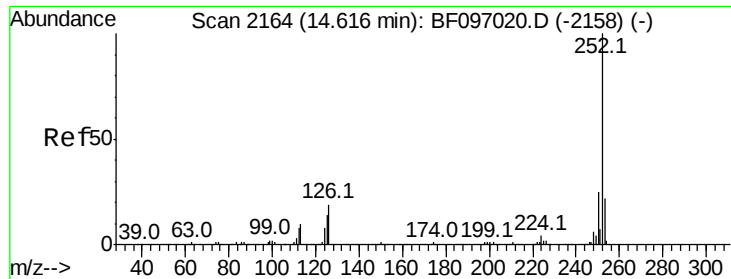
#86
Perylene-d12
Concen: 20.000 ng
RT: 14.97 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BF097146.D
Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	23.3	17.2	25.8



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





#87

Benzo(b)fluoranthene

Concen: 62.586 ng m

RT: 14.62 min Scan# 2164

Delta R.T. -0.00 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

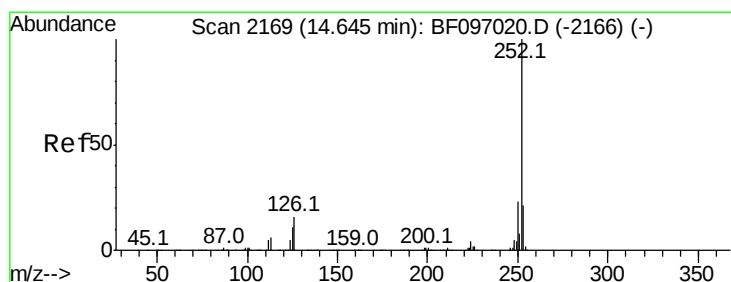
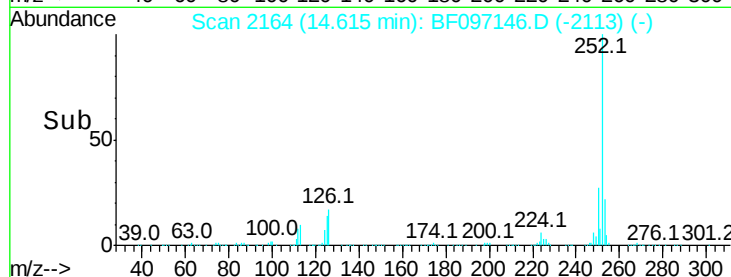
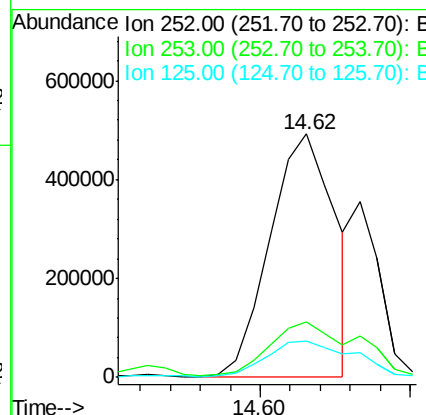
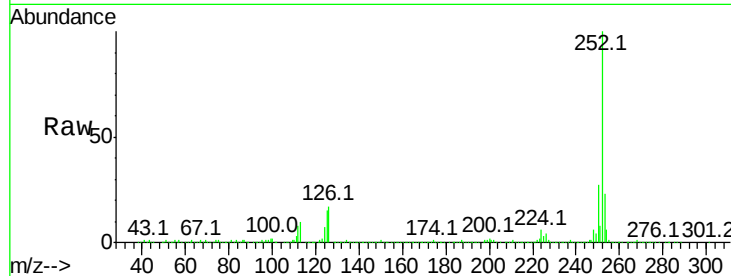
Instrument :
BNA_F

ClientSampleId :
EO-02-072517-D

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	14.7	9.8	14.8

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#88

Benzo(k)fluoranthene

Concen: 21.013 ng m

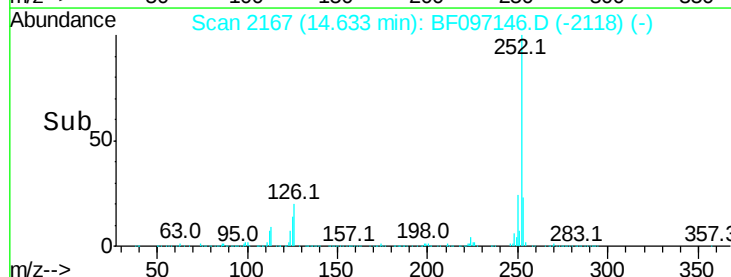
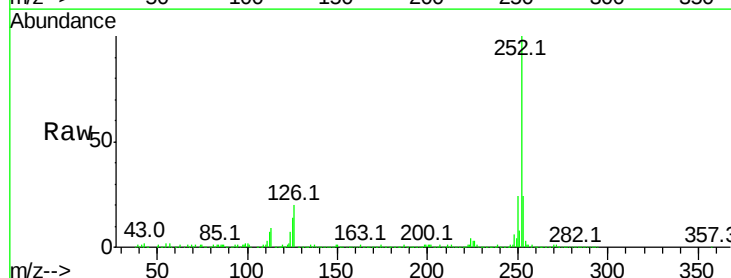
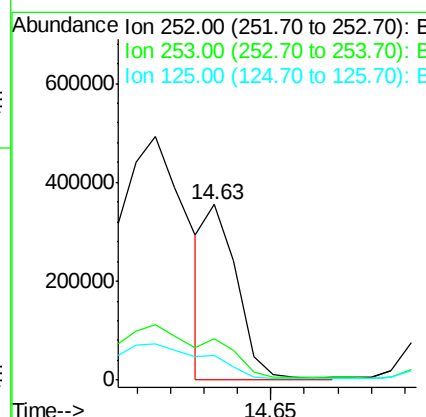
RT: 14.63 min Scan# 2167

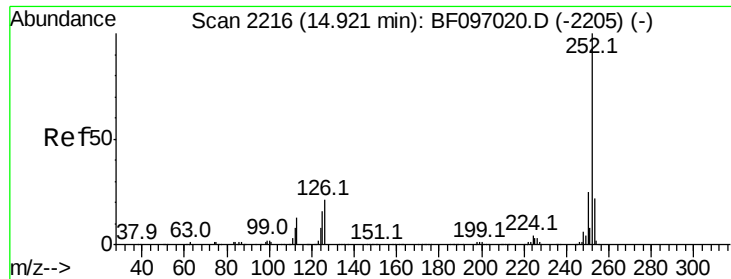
Delta R.T. -0.01 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	14.0	13.1	19.7





#89

Benzo(a)pyrene

Concen: 49.459 ng

RT: 14.92 min Scan# 2216

Delta R.T. -0.00 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Instrument :

BNA_F

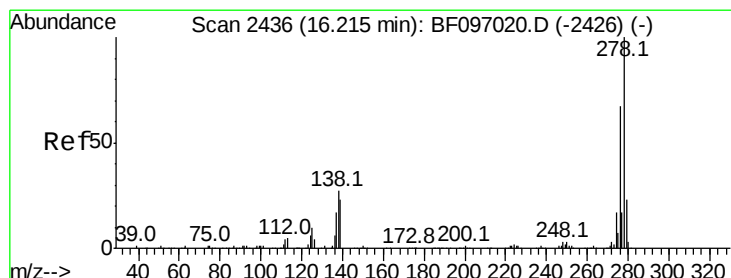
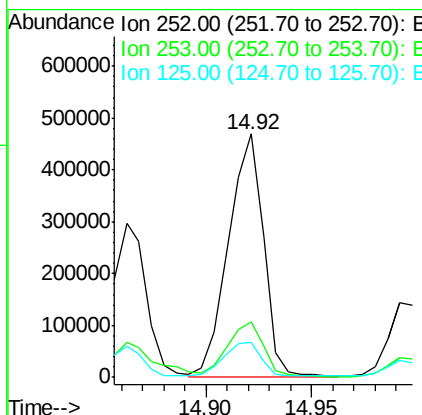
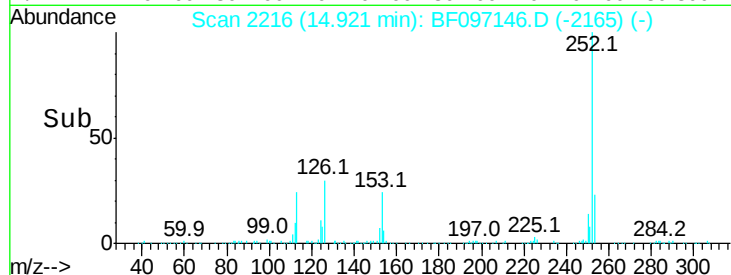
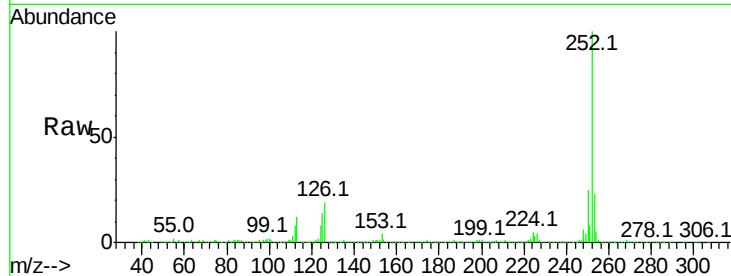
ClientSampleId :

EO-02-072517-D

Tot Ion:	252	Resp:	534919
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.5	26.3
125	14.2	11.0	16.4

Manual Integrations
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Sohil
7/31/2017 6:51:28 PM



#90

Dibenzo(a,h)anthracene

Concen: 9.190 ng

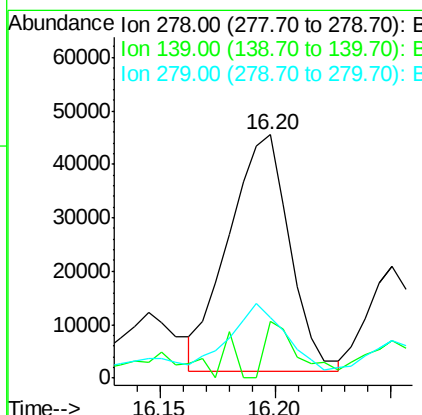
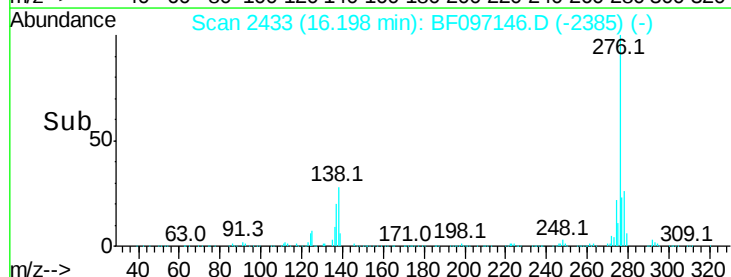
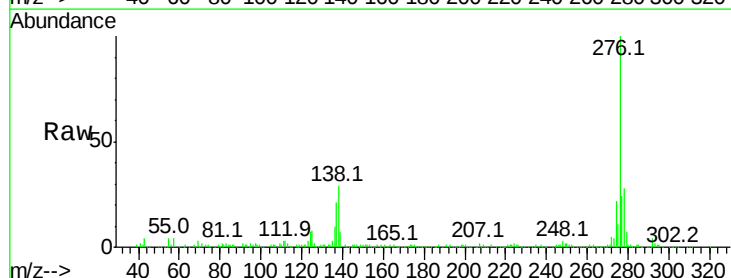
RT: 16.20 min Scan# 2433

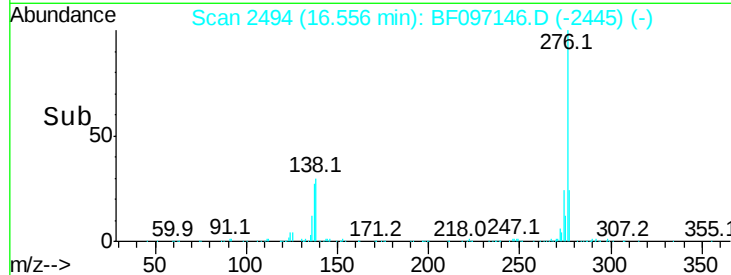
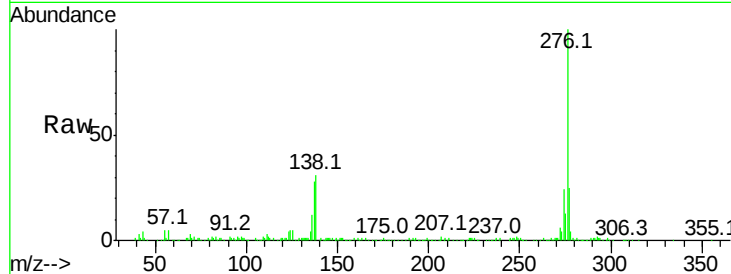
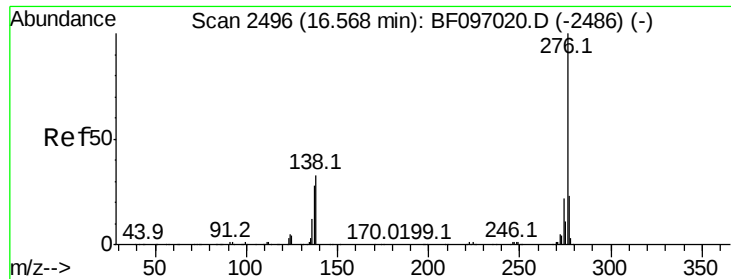
Delta R.T. -0.02 min

Lab File: BF097146.D

Acq: 28 Jul 2017 11:25

Tgt Ion:	278	Resp:	81504
Ion Ratio	Lower	Upper	
278	100		
139	23.4	16.6	24.8
279	25.1	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 27.607 ng
 RT: 16.56 min Scan# 2494
 Delta R.T. -0.01 min
 Lab File: BF097146.D
 Acq: 28 Jul 2017 11:25

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-072517-D

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.6	28.0
138	30.9	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 7/31/2017 6:51:28 PM

