

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042018\
 Data File : BF104692.D
 Acq On : 21 Apr 2018 00:13
 Operator : JU/SJ
 Sample : J2480-03DL 20X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EPE-L-7A(0-5)DL

Manual Integrations
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 4/23/2018 2:18:41 PM

Quant Time: Apr 23 08:33:00 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 20 14:49:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	100248	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	400393	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	169818	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	281475	20.00	ng	0.00
75) Chrysene-d12	13.98	240	219234	20.00	ng	0.00
86) Perylene-d12	15.45	264	183244	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	33408	5.10	ng	0.00
7) Phenol-d6	6.43	99	43172	5.36	ng	-0.01
23) Nitrobenzene-d5	7.36	82	22701	3.70	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	7759	4.40	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	53567	4.98	ng	0.00
78) Terphenyl-d14	12.92	244	47780	4.97	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.11	128	95101	4.770	ng	98
51) Acenaphthene	9.87	154	54018	5.008	ng	99
54) Dibenzofuran	10.05	168	51614	3.433	ng	99
57) Fluorene	10.39	166	36146	3.303	ng	98
70) Phenanthrene	11.36	178	521758	33.286	ng	99
71) Anthracene	11.41	178	92640	5.814	ng	98
72) Carbazole	11.56	167	39920	2.564	ng	96
74) Fluoranthene	12.55	202	505643	30.874	ng	97
77) Pyrene	12.78	202	446626	27.484	ng	99
80) Benzo(a)anthracene	13.97	228	184178	14.062	ng	99
82) Chrysene	14.00	228	159299	11.841	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	54637	4.781	ng	94
87) Benzo(b)fluoranthene	15.03	252	165805m	14.326	ng	
88) Benzo(k)fluoranthene	15.05	252	43150m	3.949	ng	
89) Benzo(a)pyrene	15.39	252	108911	10.517	ng	96
91) Benzo(g,h,i)perylene	17.34	276	53136	6.449	ng	98

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

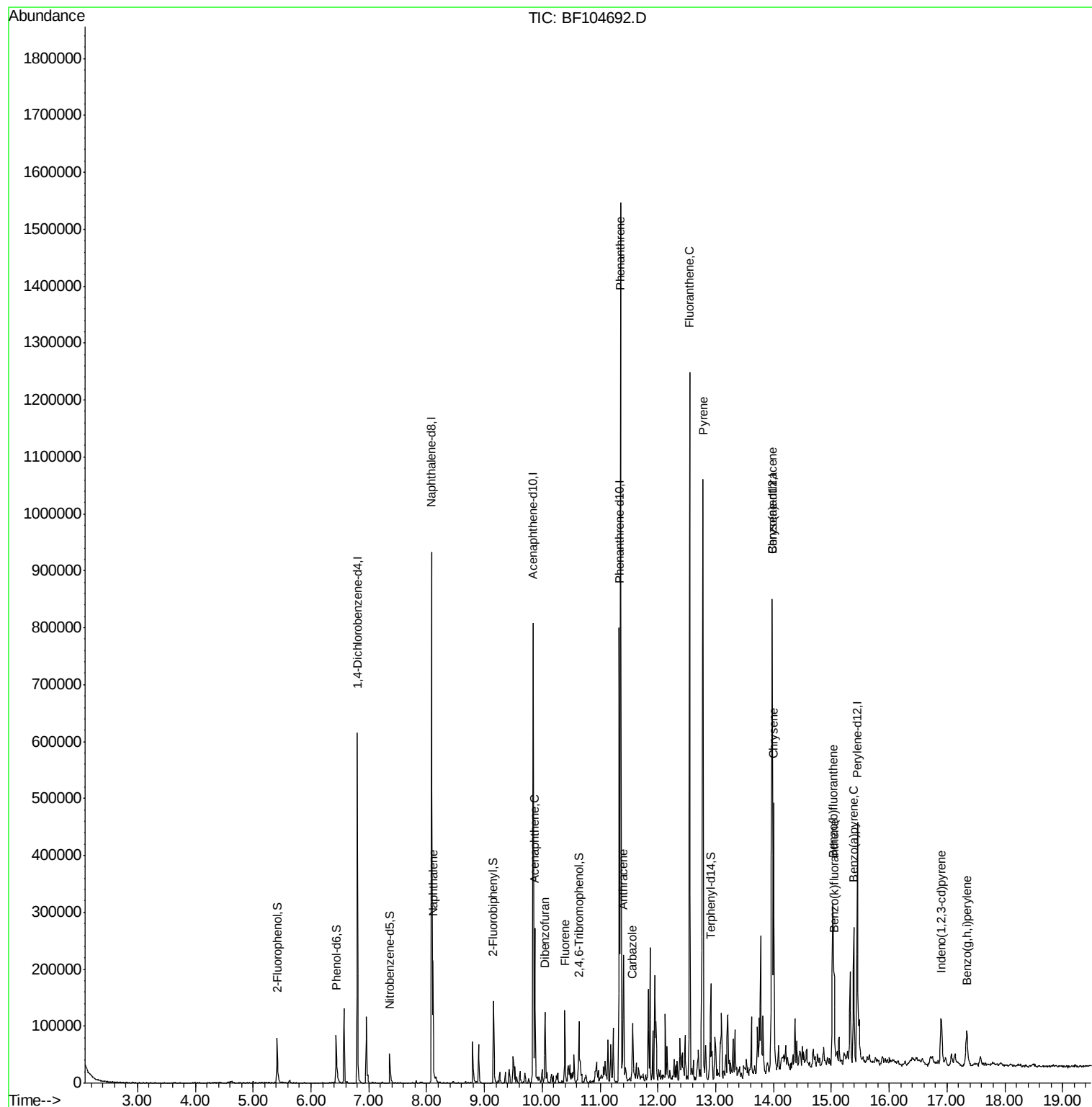
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042018\
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#1

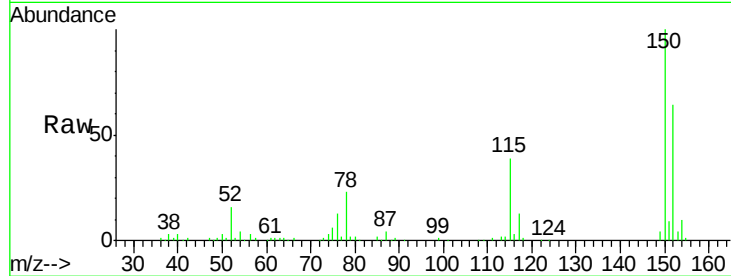
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

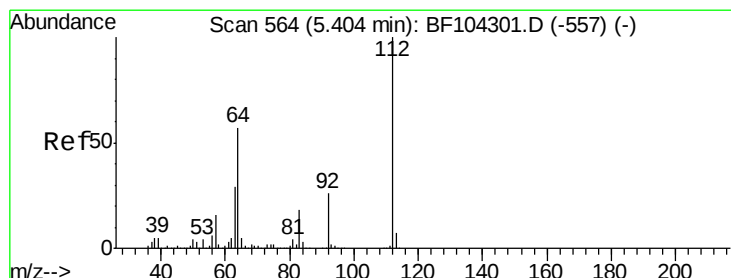
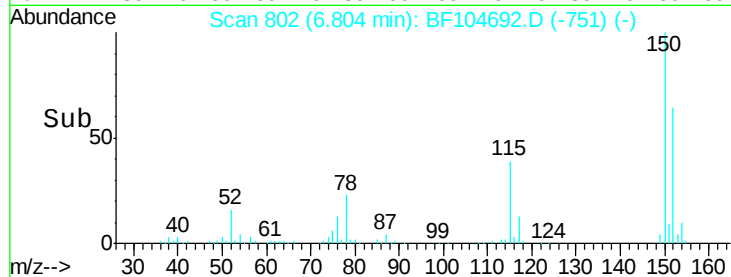
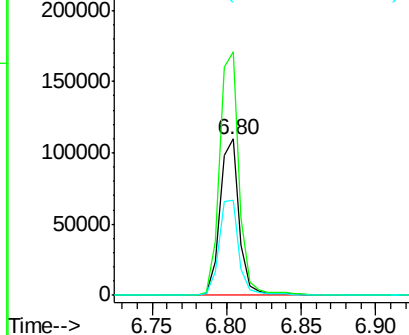
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.6	186.8
115	61.2	50.1	75.1

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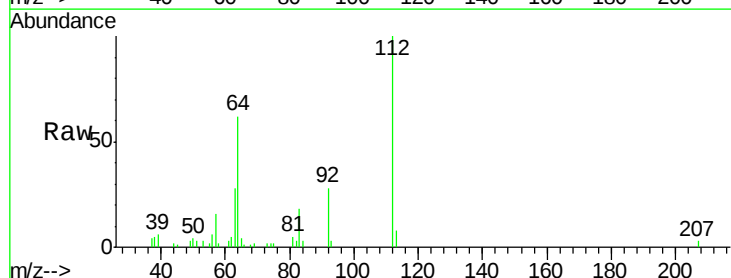
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



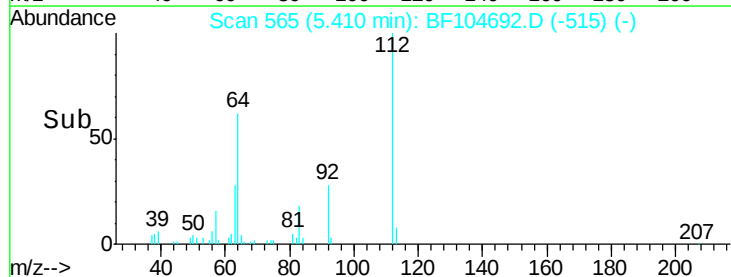
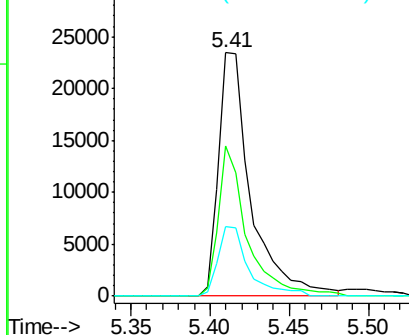
#5

2-Fluorophenol
Concen: 5.096 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.8	47.9	71.9
63	28.5	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 5.359 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104692.D

Acq: 21 Apr 2018 00:13

Instrument :

BNA_F

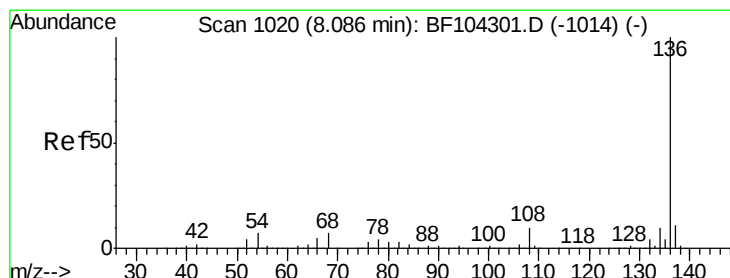
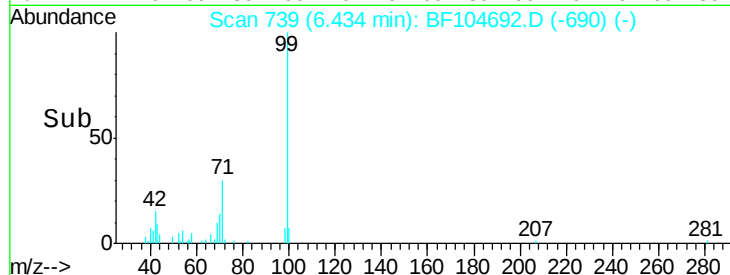
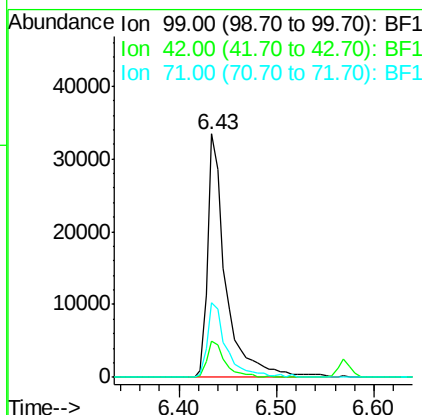
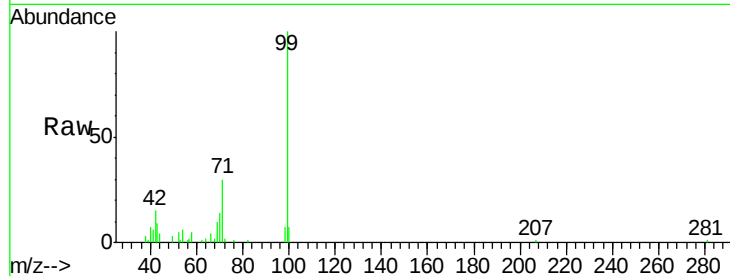
ClientSampleId :

EPE-L-7A(0-5)DL

Tot Ion:	99	Resp:	43172
Ion Ratio	Lower	Upper	
99	100		
42	15.0	14.5	21.7
71	30.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

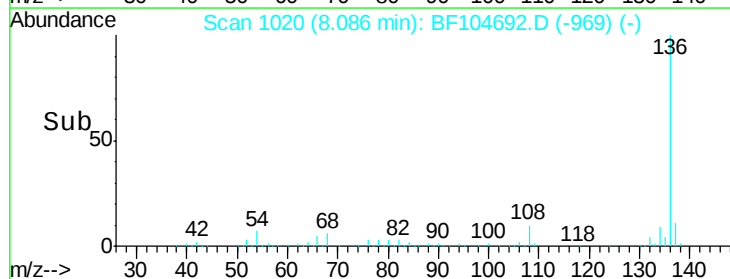
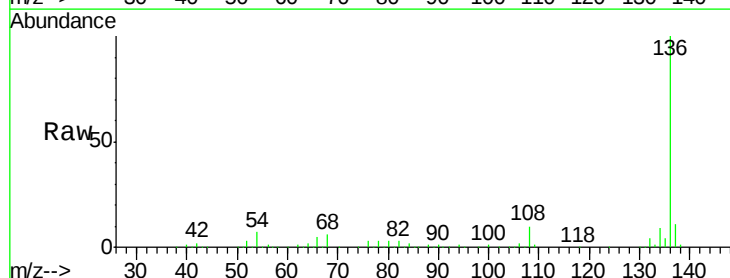
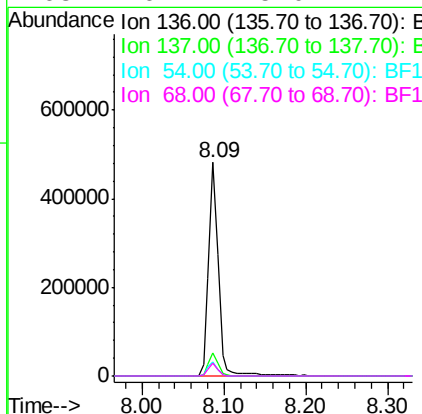
RT: 8.09 min Scan# 1020

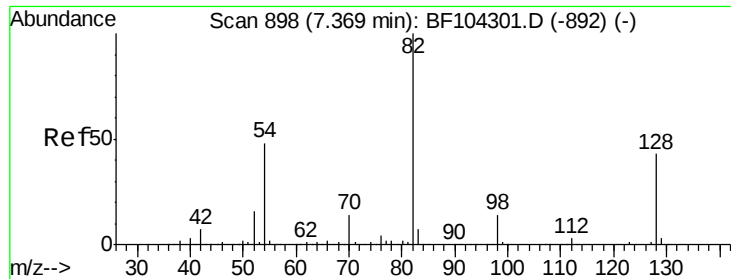
Delta R.T. -0.00 min

Lab File: BF104692.D

Acq: 21 Apr 2018 00:13

Tgt Ion:	136	Resp:	400393
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	6.7	6.6	9.8
68	6.1	5.0	7.4





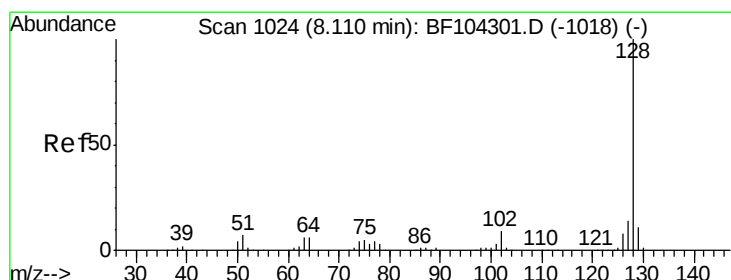
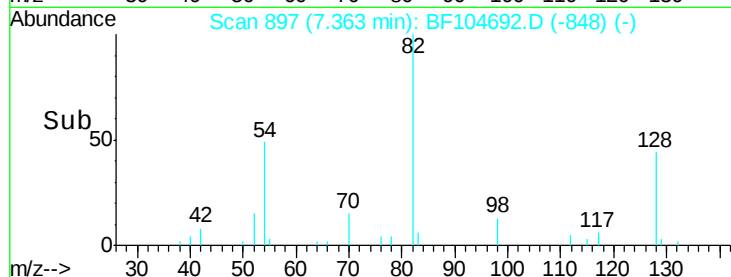
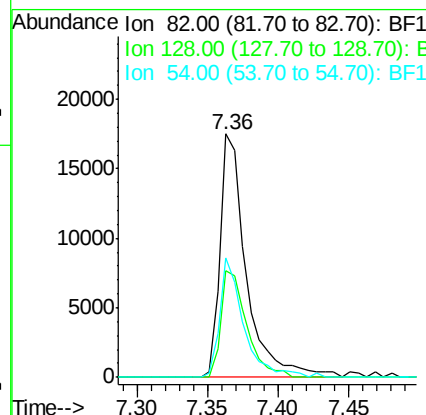
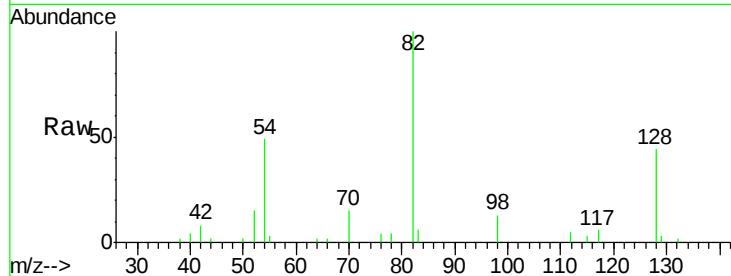
#23
Nitrobenzene-d5
Concen: 3.702 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

Tot Ion	82	Resp	22701
Ion Ratio	100	Lower	Upper
82	100		
128	43.7	36.1	54.1
54	49.2	41.4	62.2

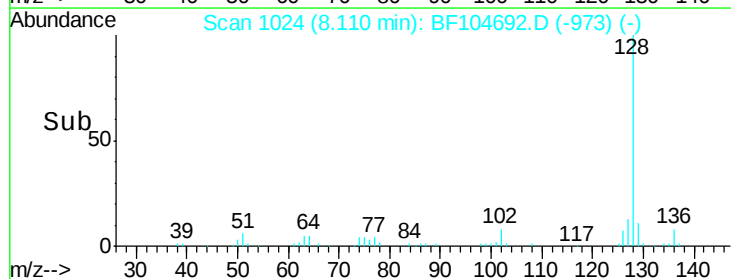
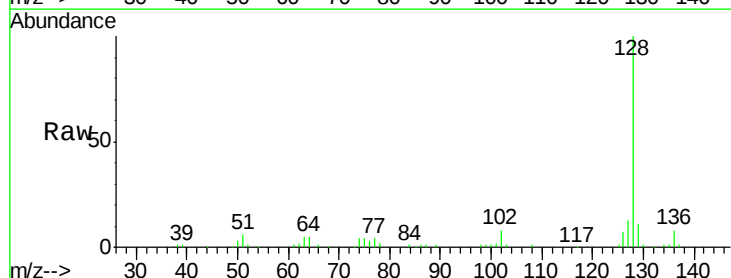
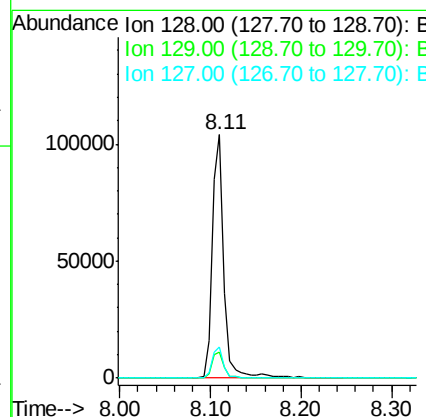
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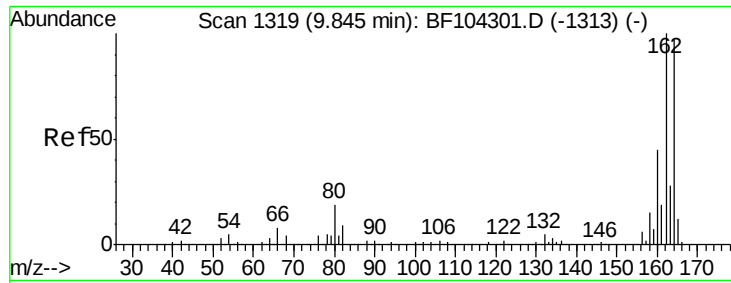
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#31
Naphthalene
Concen: 4.770 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.00 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	128	Resp	95101
Ion Ratio	100	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	12.7	10.9	16.3





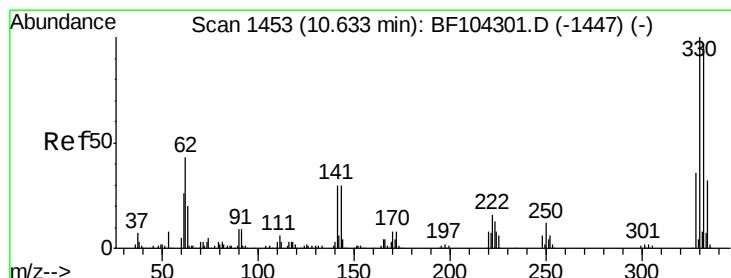
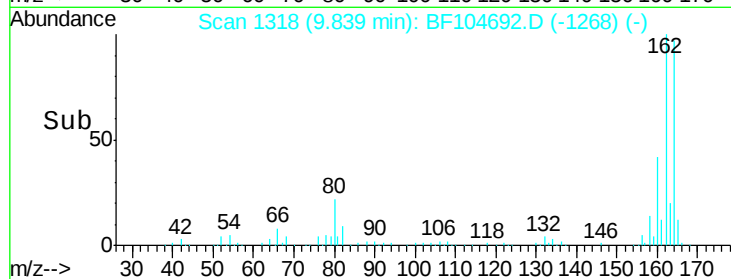
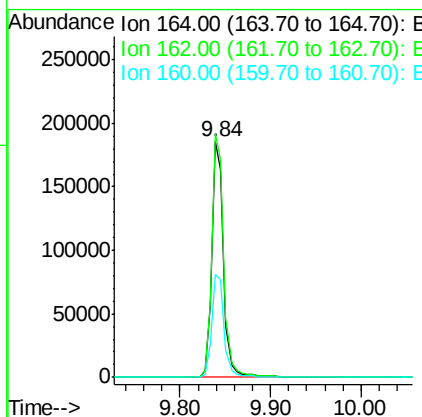
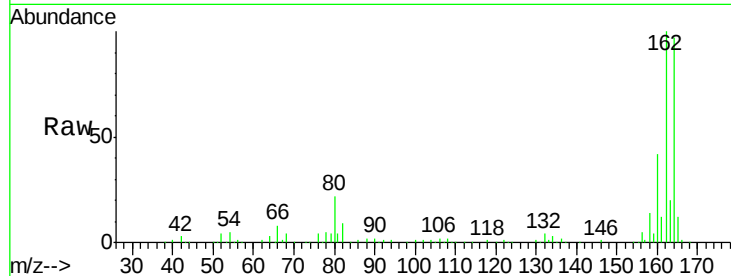
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100	169818		
162	103.5	86.1	129.1	
160	43.7	38.3	57.5	

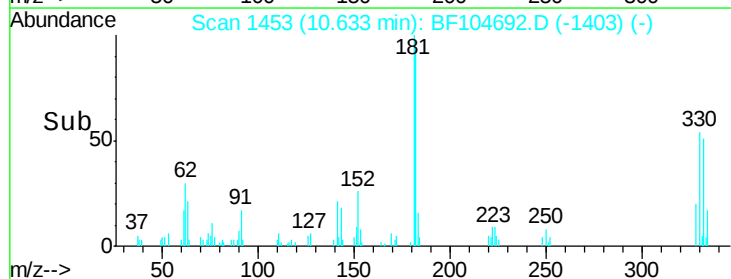
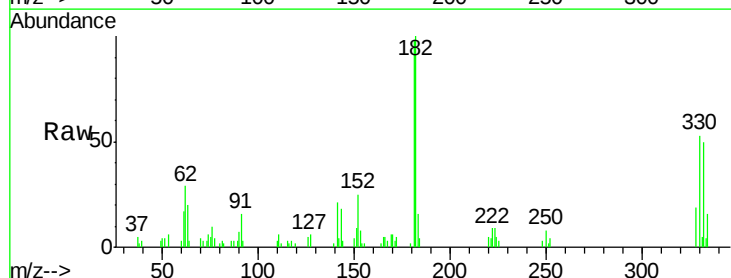
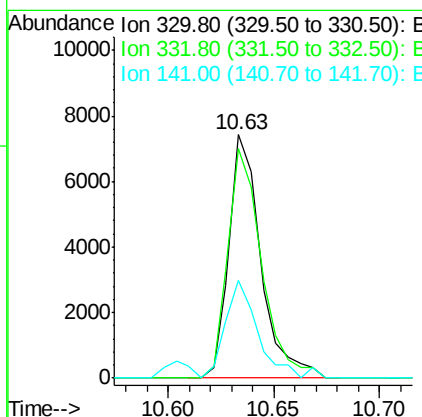
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#41
2,4,6-Tribromophenol
Concen: 4.405 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	7759		
332	100.0	77.0	115.6	
141	41.3	29.9	44.9	





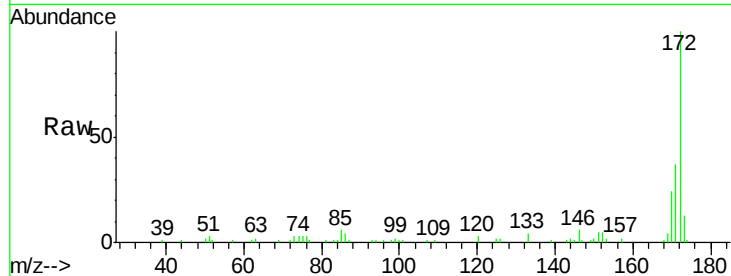
#44
2-Fluorobiphenyl
Concen: 4.983 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.00 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

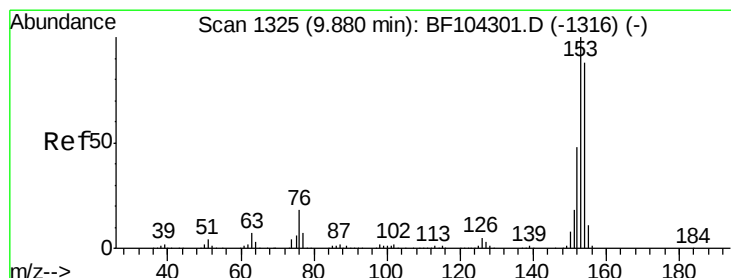
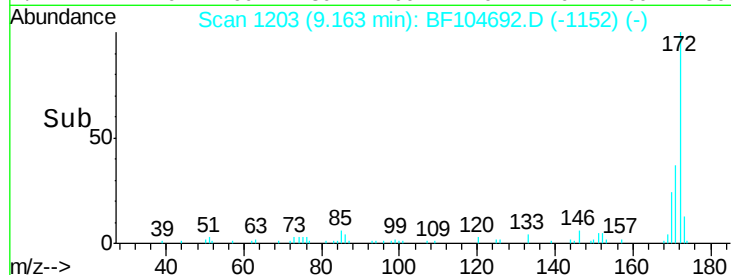
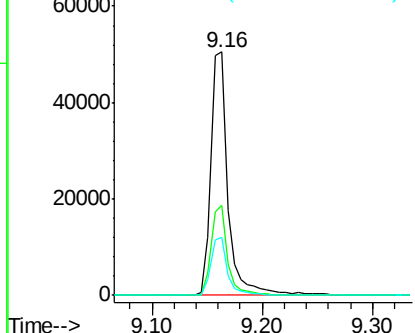
Tot Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.7	44.5
170	23.7	19.6	29.4

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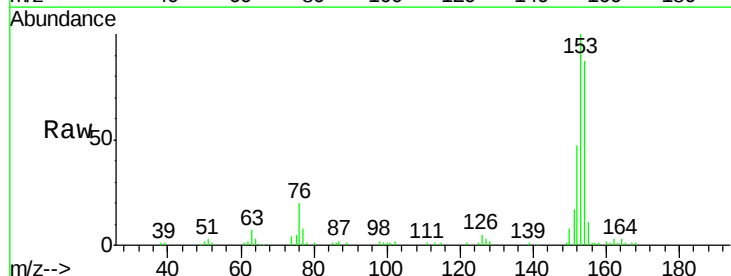


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

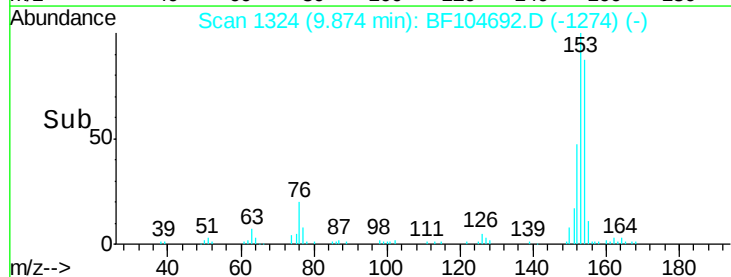
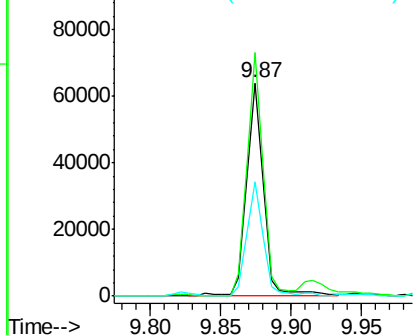


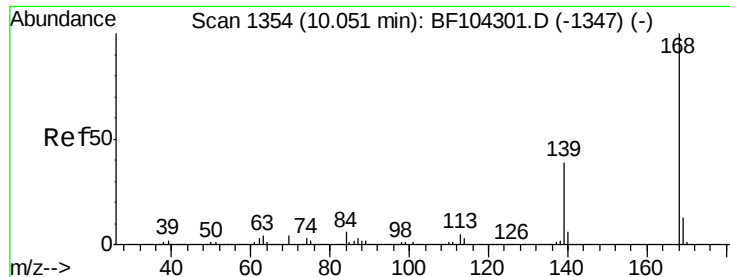
#51
Acenaphthene
Concen: 5.008 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.3	91.2	136.8
152	53.8	43.8	65.8



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

Dibenzenofuran

Concen: 3.433 ng

RT: 10.05 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF104692.D

Acq: 21 Apr 2018 00:13

Instrument :

BNA_F

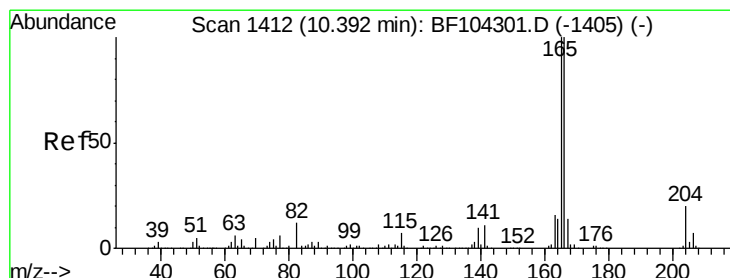
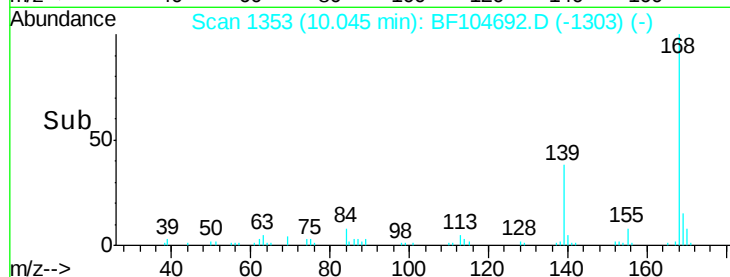
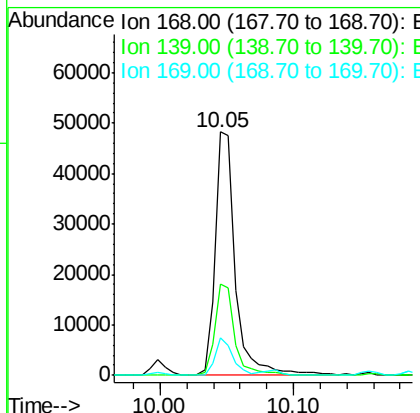
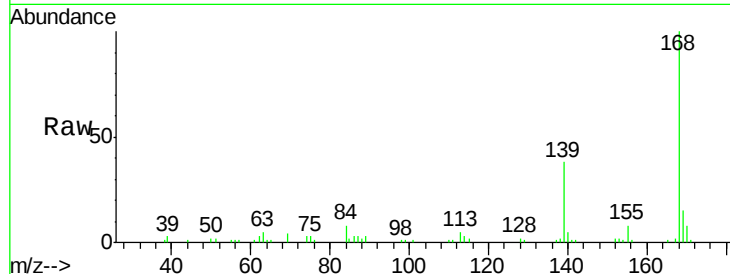
ClientSampleId :

EPE-L-7A(0-5)DL

Tot Ion:168	Resp:	51614
Ion Ratio	Lower	Upper
168	100	
139	37.6	30.1 45.1
169	15.3	10.9 16.3

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#57

Fluorene

Concen: 3.303 ng

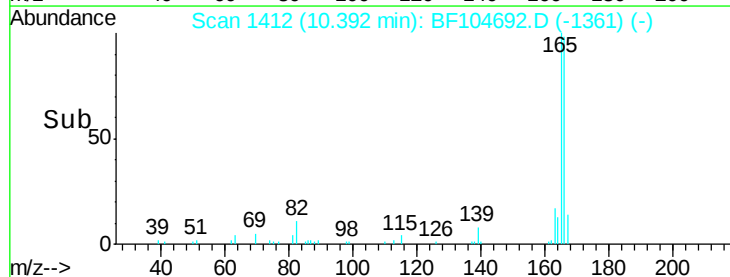
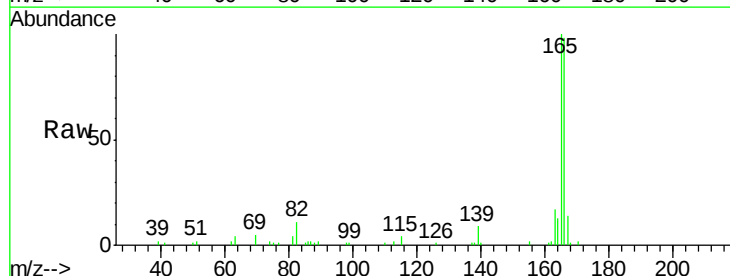
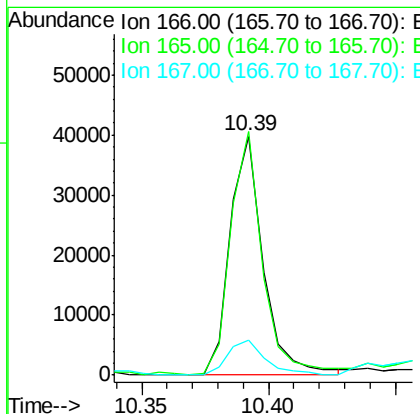
RT: 10.39 min Scan# 1412

Delta R.T. -0.00 min

Lab File: BF104692.D

Acq: 21 Apr 2018 00:13

Tgt Ion:166	Resp:	36146
Ion Ratio	Lower	Upper
166	100	
165	101.9	79.8 119.8
167	14.8	10.6 16.0





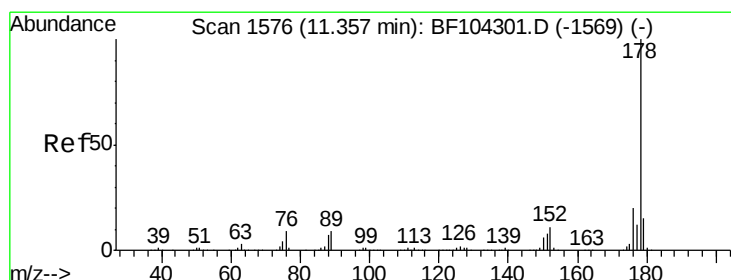
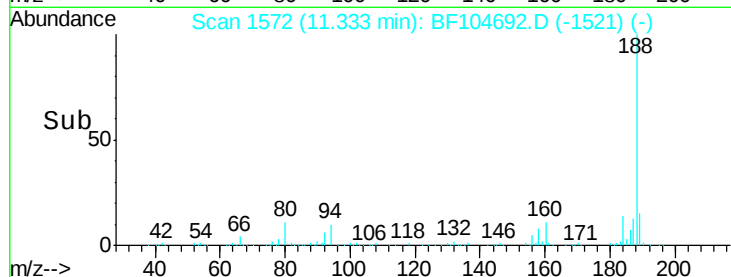
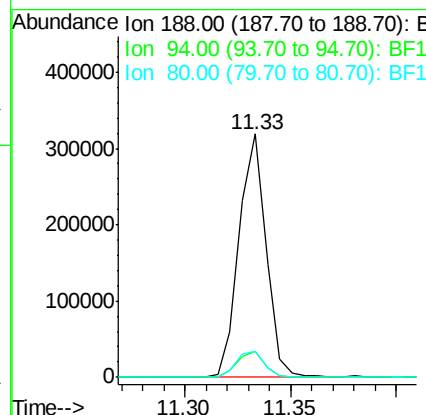
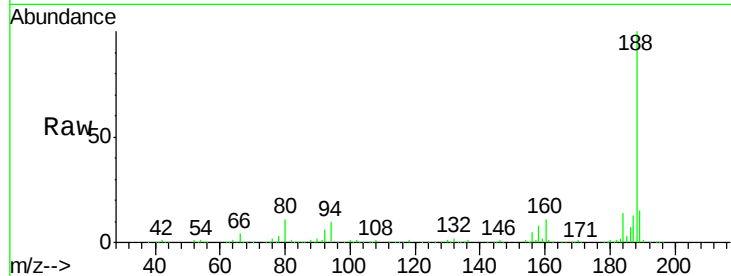
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.00 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	281475		
94	10.5		8.5	12.7
80	10.6		9.2	13.8

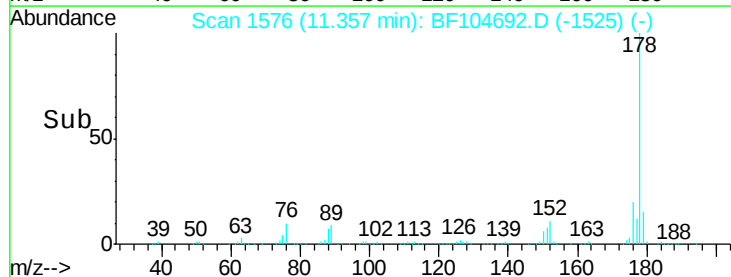
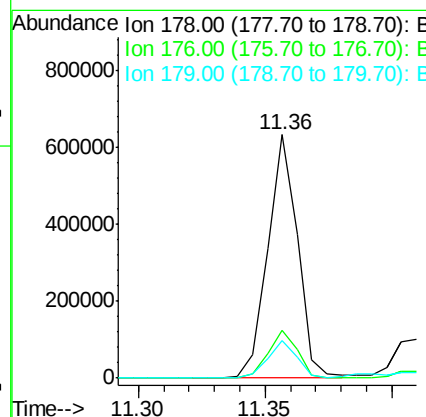
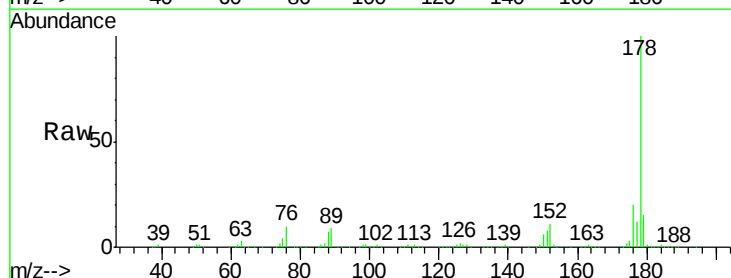
Manual Integrations
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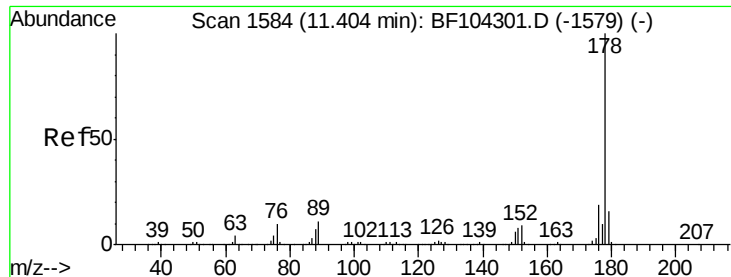
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#70
Phenanthrene
Concen: 33.286 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.00 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	521758		
176	19.7		15.8	23.8
179	15.2		13.0	19.6





#71

Anthracene

Concen: 5.814 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF104692.D

Acq: 21 Apr 2018 00:13

Instrument :

BNA_F

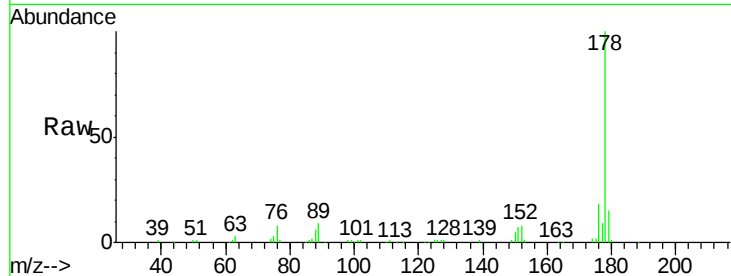
ClientSampleId :

EPE-L-7A(0-5)DL

Tot Ion:	178	Resp:	92640
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.4	23.2
179	15.4	12.6	19.0

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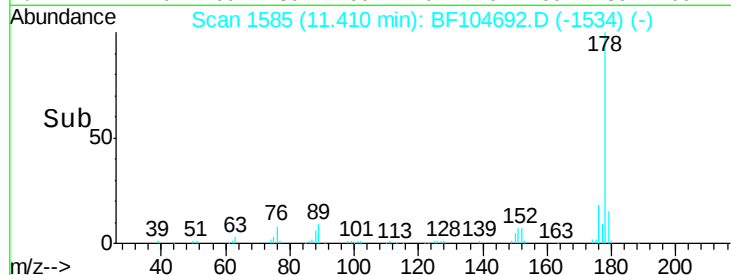


Abundance Ion 178.00 (177.70 to 178.70): E

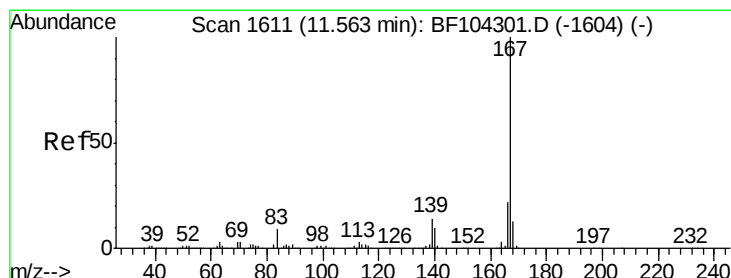
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->



Time-->



#72

Carbazole

Concen: 2.564 ng

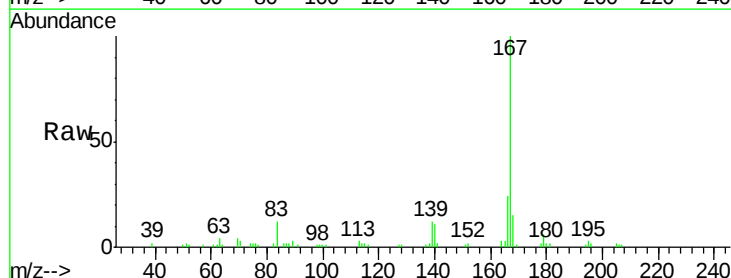
RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF104692.D

Acq: 21 Apr 2018 00:13

Tgt Ion:	167	Resp:	39920
Ion Ratio	Lower	Upper	
167	100		
166	23.7	17.6	26.4
139	11.6	10.9	16.3

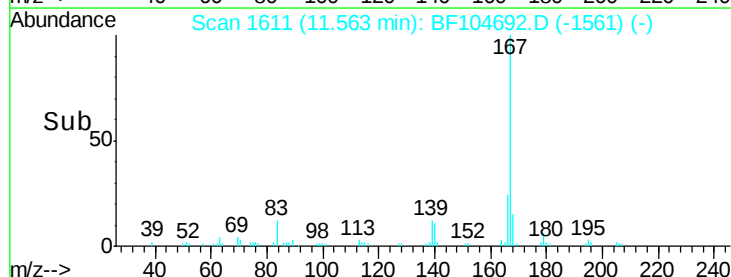


Abundance Ion 167.00 (166.70 to 167.70): E

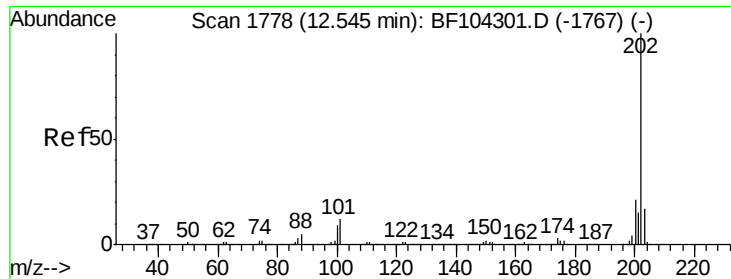
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

Time-->



Time-->



#74

Fluoranthene

Concen: 30.874 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BF104692.D

Acq: 21 Apr 2018 00:13

Instrument :

BNA_F

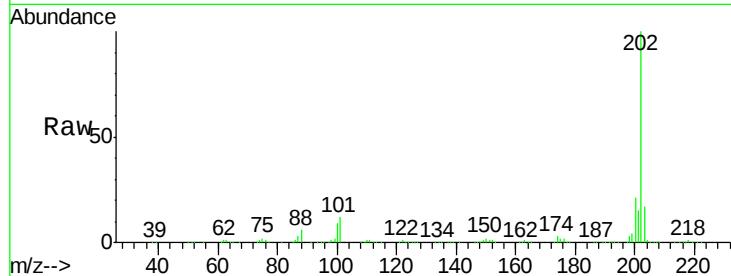
ClientSampleId :

EPE-L-7A(0-5)DL

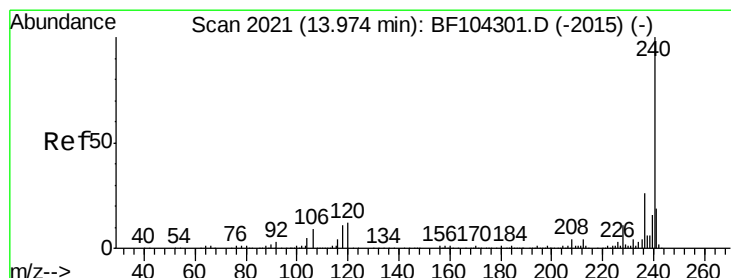
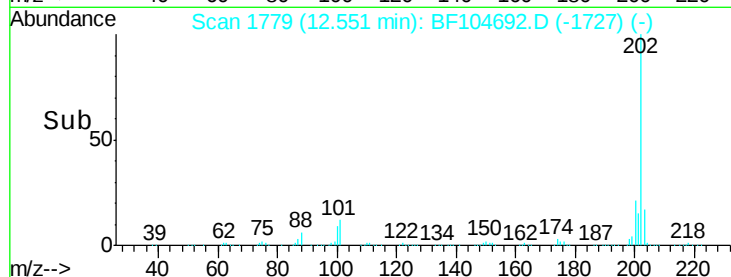
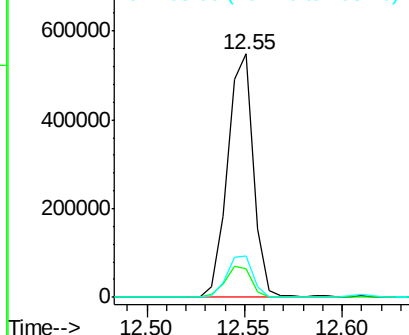
Tot Ion	Ratio	Resp	Lower	Upper
202	100	505643		
101	11.9	0.0	34.1	
203	17.2	0.0	38.1	

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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

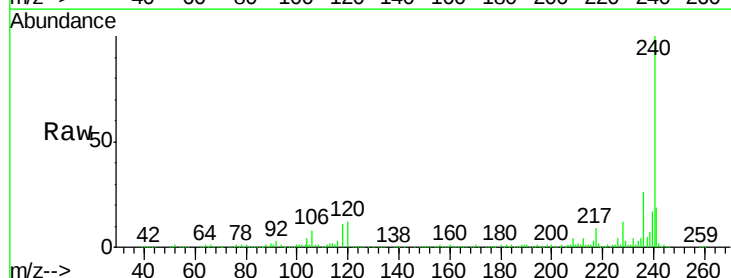
RT: 13.98 min Scan# 2022

Delta R.T. -0.00 min

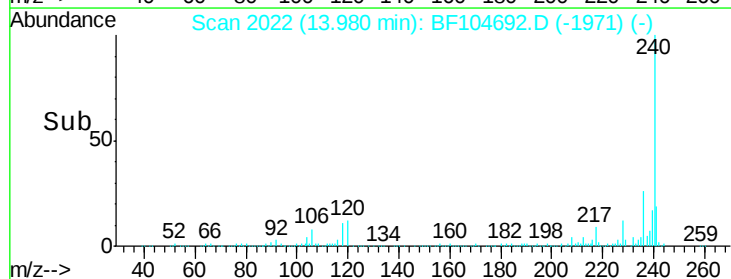
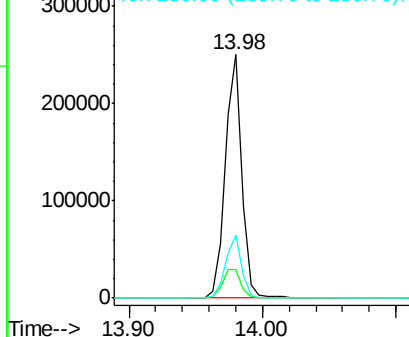
Lab File: BF104692.D

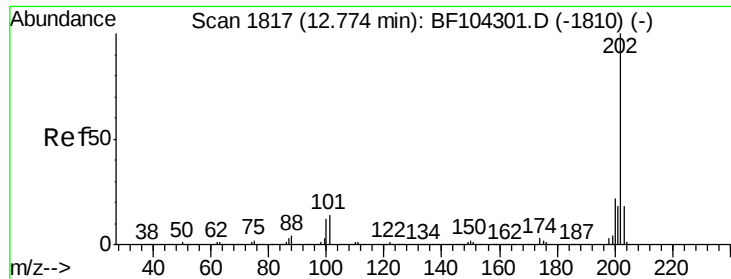
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	219234		
120	11.6	9.5	14.3	
236	25.8	20.7	31.1	



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





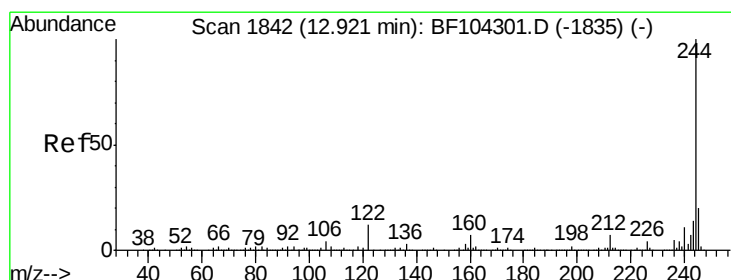
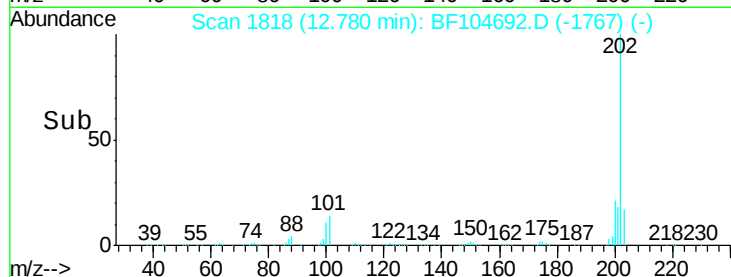
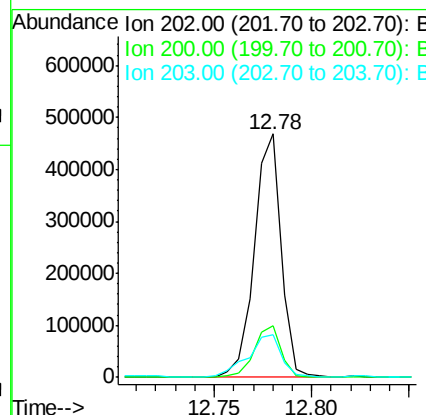
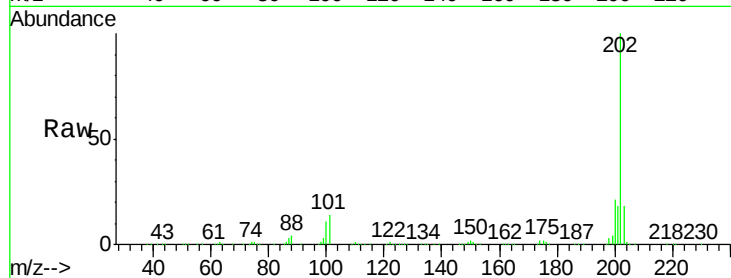
#77
Pvrene
Concen: 27.484 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.00 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.4	26.2
203	17.6	14.3	21.5

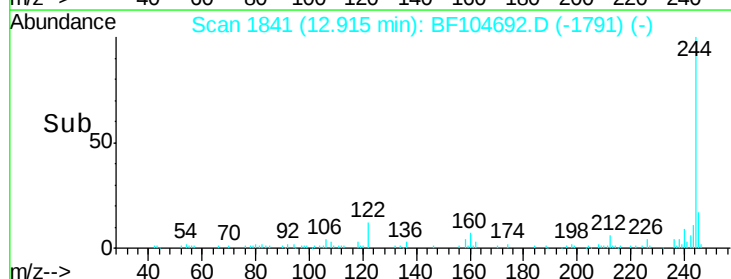
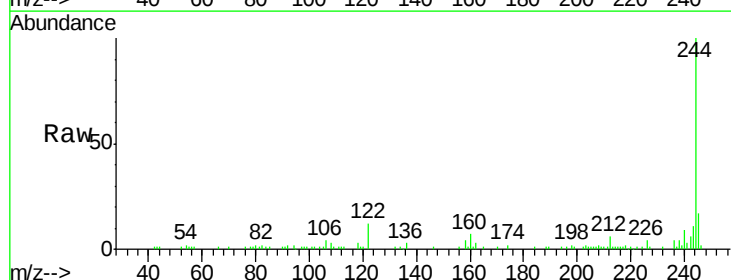
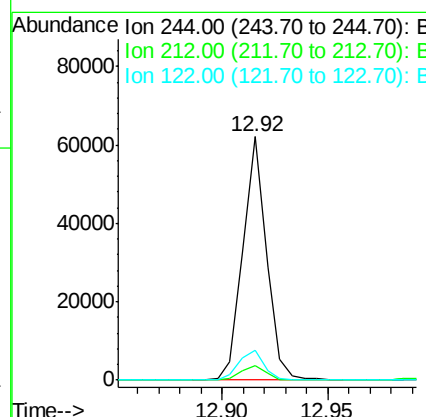
Manual Integrations
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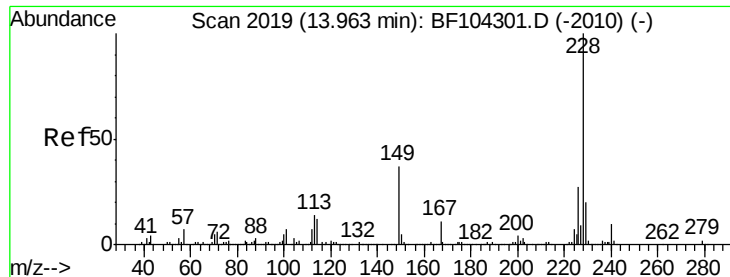
Sohil
4/23/2018 2:18:41 PM



#78
Terphenyl-d14
Concen: 4.969 ng
RT: 12.92 min Scan# 1841
Delta R.T. -0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.7	5.4	8.0
122	12.4	11.0	16.4





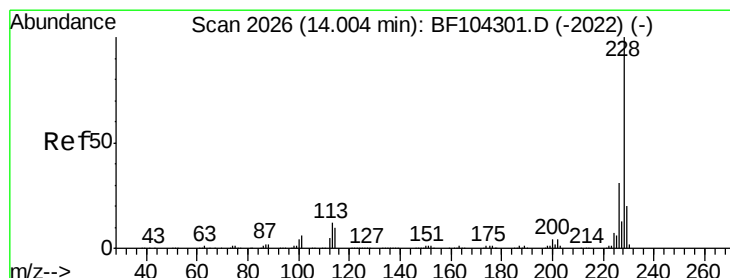
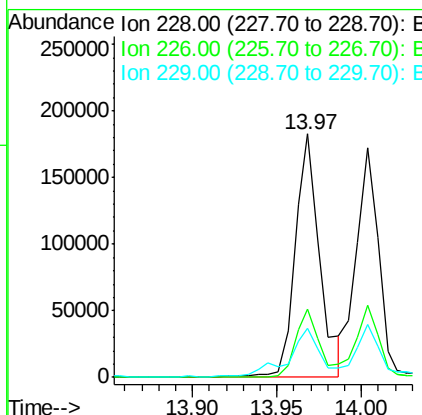
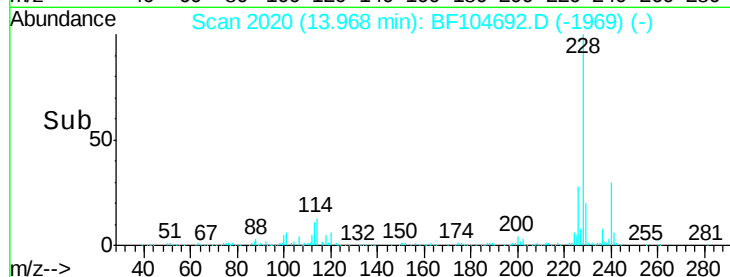
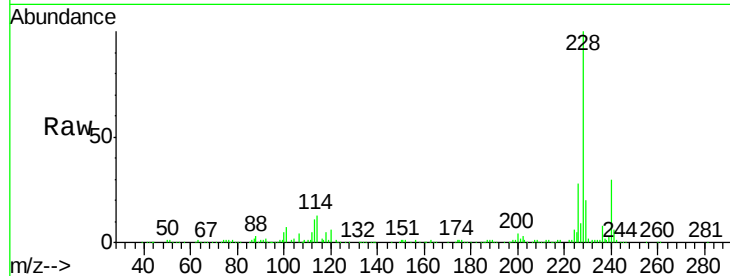
#80
Benzo(a)anthracene
Concen: 14.062 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.00 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	20.1	15.8	23.6

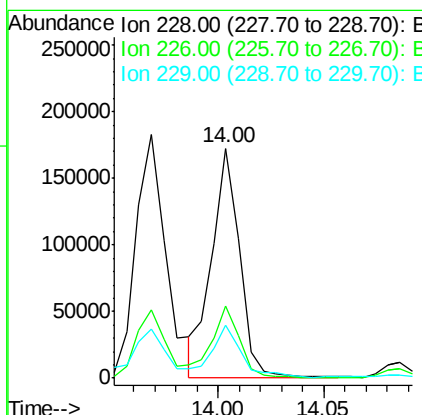
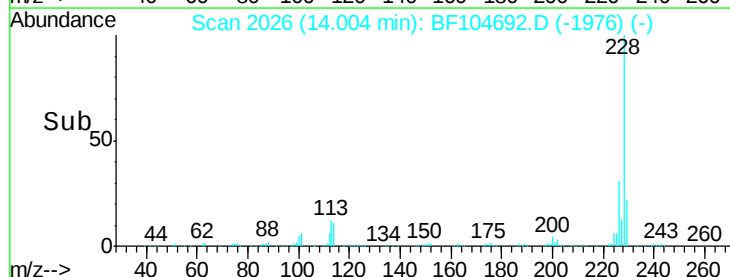
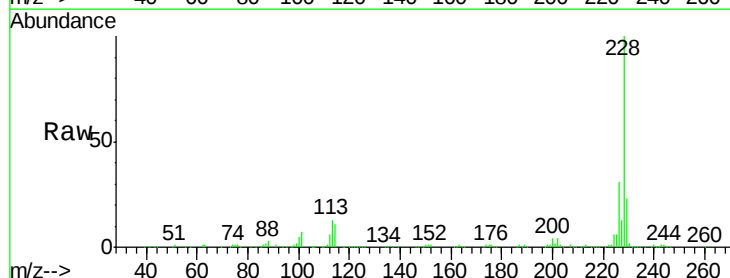
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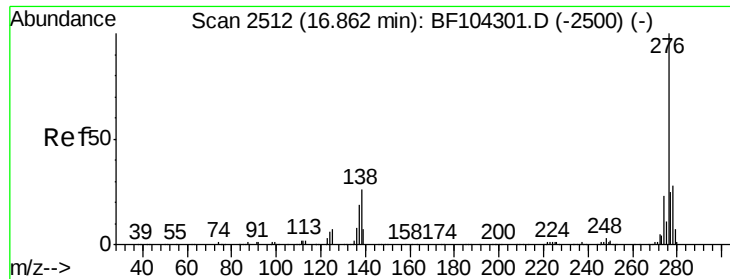
Sohil
4/23/2018 2:18:41 PM



#82
Chrysene
Concen: 11.841 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.6
229	22.8	16.2	24.4





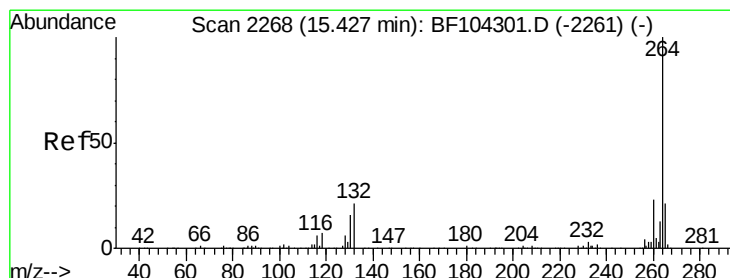
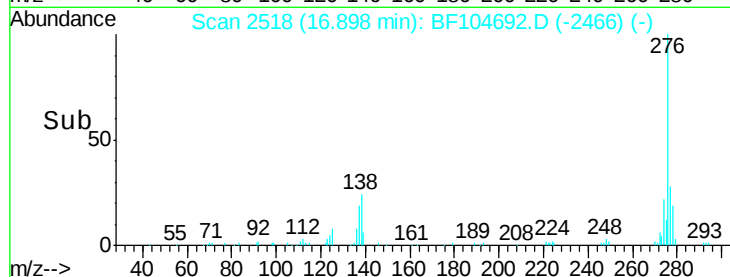
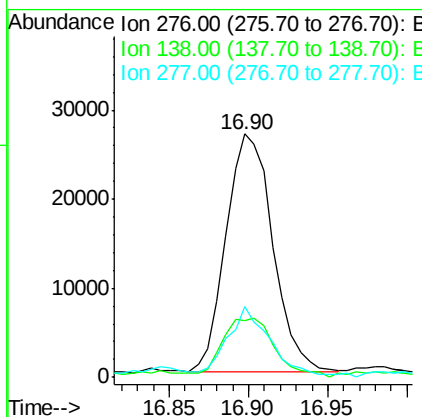
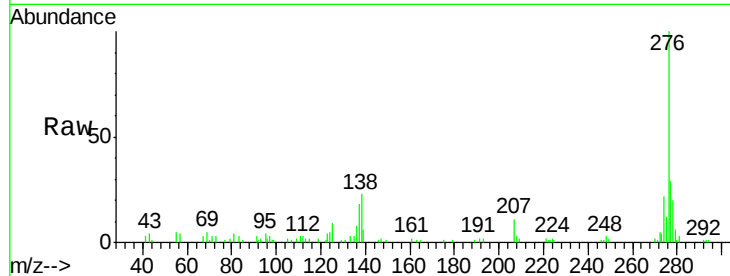
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.781 ng
RT: 16.90 min Scan# 2518
Delta R.T. 0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.7	25.0	37.6
277	28.2	20.1	30.1

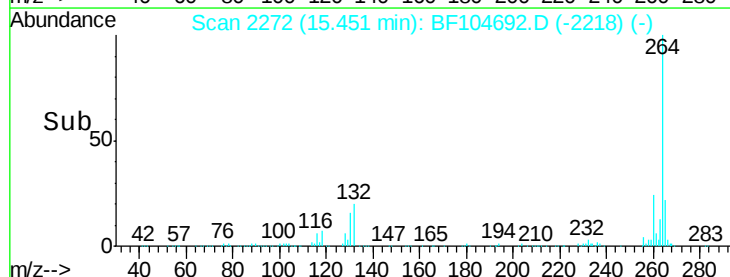
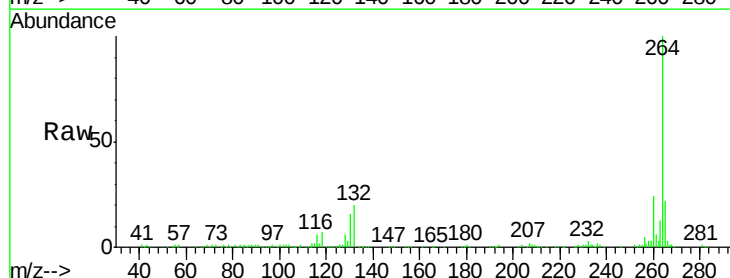
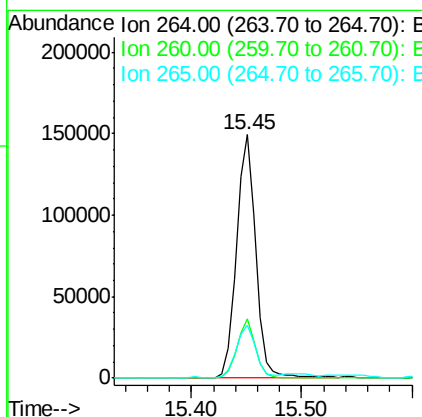
Manual Integrations
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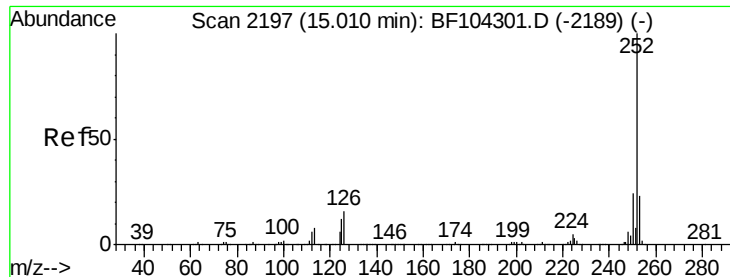
Sohil
4/23/2018 2:18:41 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.02 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.7	17.5	26.3





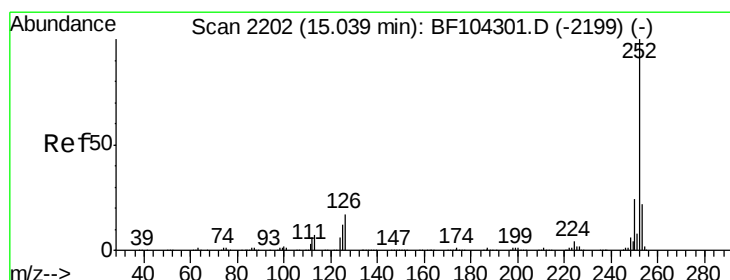
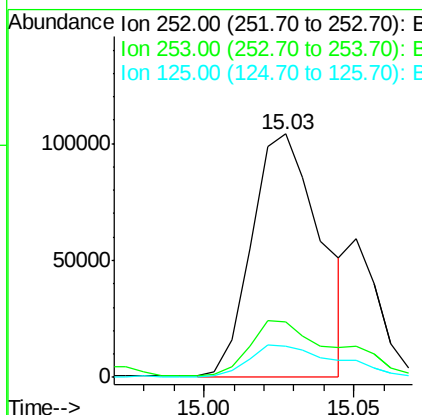
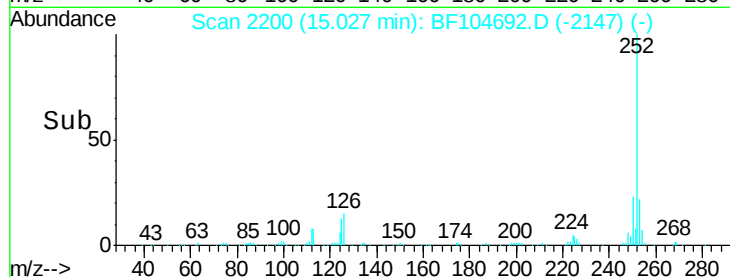
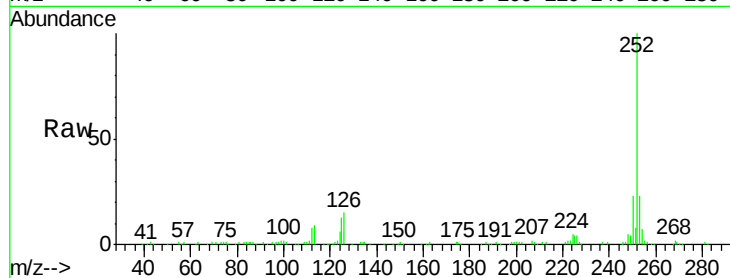
#87
Benzo(b)fluoranthene
Concen: 14.326 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampled :
EPE-L-7A(0-5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	13.0	9.0	13.6

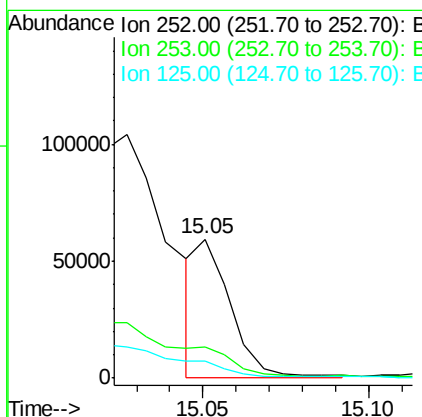
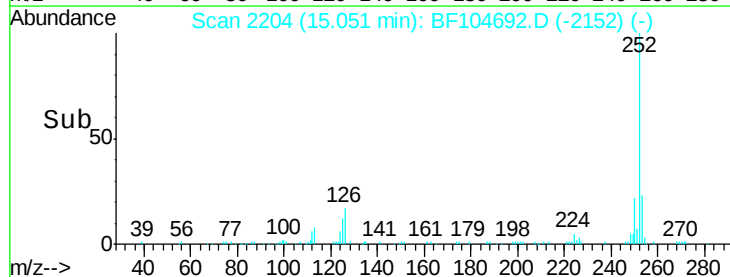
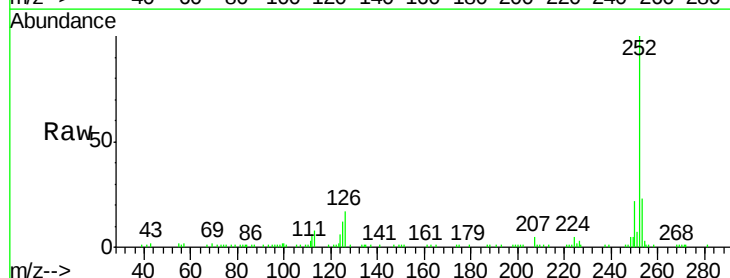
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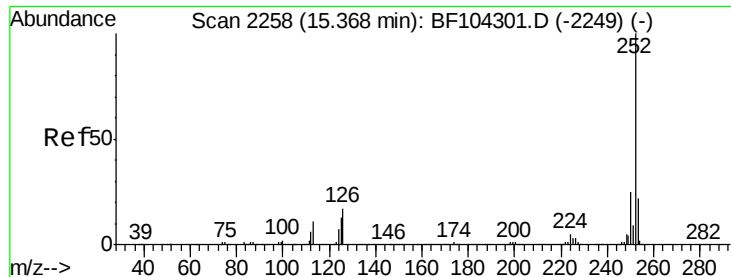
Sohil
4/23/2018 2:18:41 PM



#88
Benzo(k)fluoranthene
Concen: 3.949 ng m
RT: 15.05 min Scan# 2204
Delta R.T. 0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	12.4	10.2	15.2





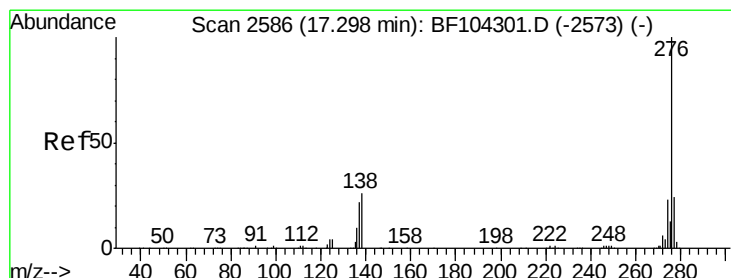
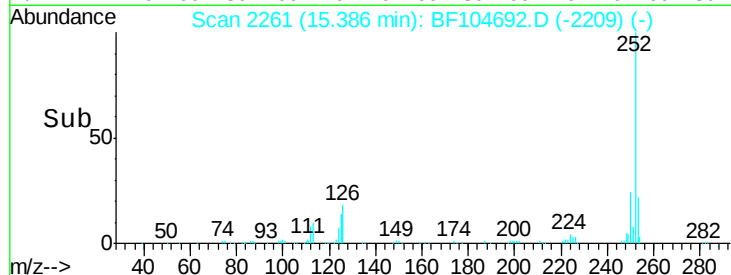
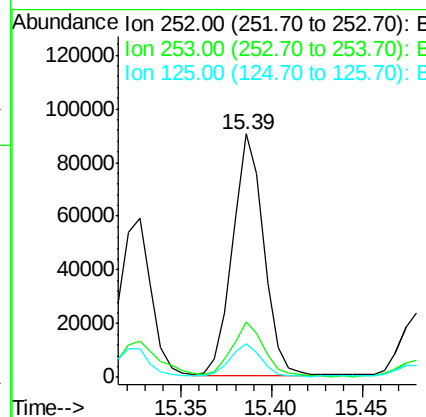
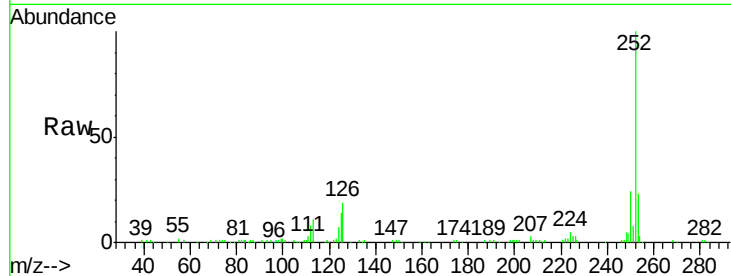
#89
Benzo(a)pyrene
Concen: 10.517 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Instrument :
BNA_F
ClientSampleId :
EPE-L-7A(0-5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	14.0	9.8	14.6

Manual Integrations
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4/23/2018 2:18:41 PM



#91
Benzo(g,h,i)perylene
Concen: 6.449 ng
RT: 17.34 min Scan# 2594
Delta R.T. 0.01 min
Lab File: BF104692.D
Acq: 21 Apr 2018 00:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.9	26.9
138	26.2	21.8	32.8

