

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122717\
 Data File : BF101792.D
 Acq On : 28 Dec 2017 8:15
 Operator : SJ/JU
 Sample : I7064-09DL 5X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SAMPLE-5DL

Manual Integrations
 APPROVED

Sohil
 12/28/2017 2:03:30 PM

Quant Time: Dec 28 10:23:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 26 10:48:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	136713	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	533046	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	214299	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	320825	20.00	ng	0.00
75) Chrysene-d12	13.97	240	271492	20.00	ng	0.00
86) Perylene-d12	15.45	264	226939	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	234090	25.51	ng	0.02
7) Phenol-d6	6.45	99	291240	25.50	ng	0.01
23) Nitrobenzene-d5	7.37	82	157562	16.45	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	41587	20.14	ng	0.01
44) 2-Fluorobiphenyl	9.15	172	316052	22.88	ng	0.00
78) Terphenyl-d14	12.90	244	214456	19.04	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.10	128	103287	3.849	ng	98
37) 2-Methylnaphthalene	8.79	142	60505	3.461	ng	98
51) Acenaphthene	9.86	154	68508	4.965	ng	95
54) Dibenzofuran	10.04	168	160552	9.155	ng	99
57) Fluorene	10.38	166	103769	6.995	ng	99
70) Phenanthrene	11.35	178	967767	54.242	ng	99
71) Anthracene	11.40	178	335486	18.408	ng	98
72) Carbazole	11.57	167	97766	5.730	ng	99
74) Fluoranthene	12.54	202	819199	43.744	ng	98
77) Pyrene	12.77	202	687975	33.765	ng	100
80) Benzo(a)anthracene	13.97	228	346651	19.337	ng	98
82) Chrysene	14.00	228	312420m	18.458	ng	
85) Indeno(1,2,3-cd)pyrene	16.95	276	86759	5.756	ng	# 89
87) Benzo(b)fluoranthene	15.03	252	278239m	20.115	ng	
88) Benzo(k)fluoranthene	15.04	252	111843m	8.316	ng	
89) Benzo(a)pyrene	15.39	252	195959	15.367	ng	98
91) Benzo(a,h,i)perylene	17.40	276	75695	6.982	ng	96

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

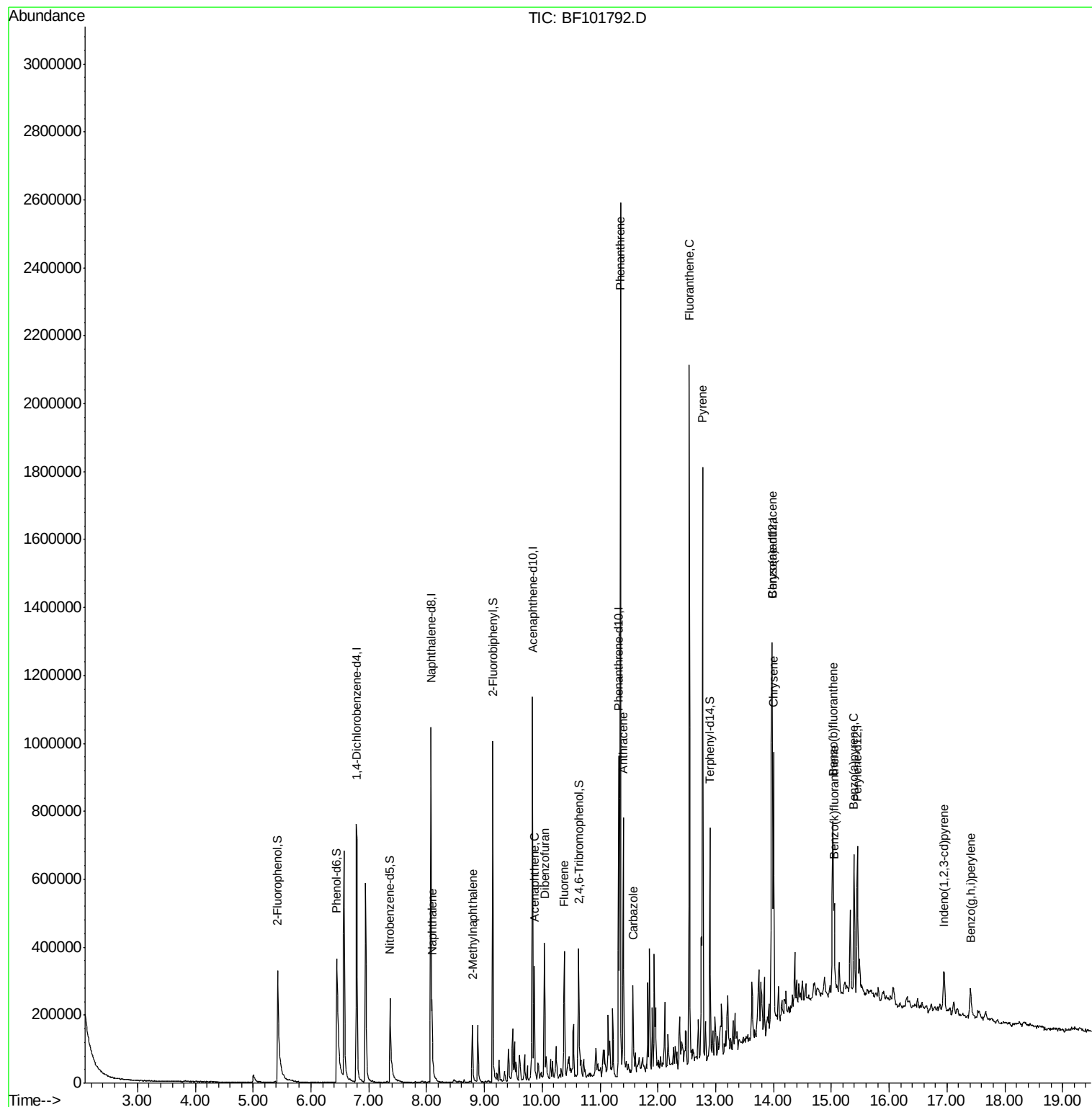
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122717\
Data File : BF101792.D
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ALS Vial : 31 Sample Multiplier: 1

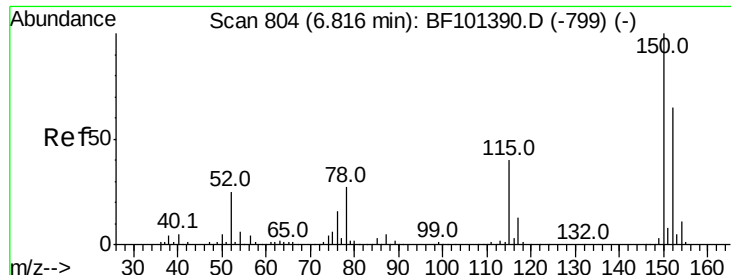
Instrument :
BNA_F
ClientSampleId :
SAMPLE-5DL

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Quant Time: Dec 28 10:23:13 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
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#1

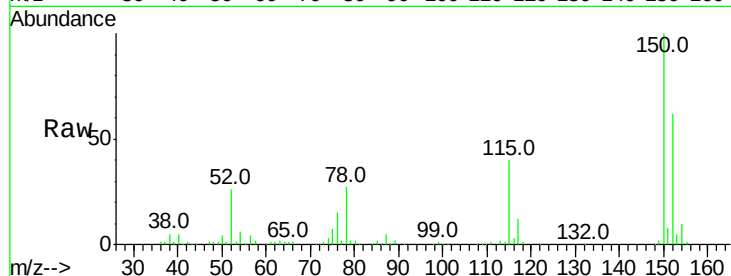
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. -0.00 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Instrument :
BNA_F
ClientSampled :
SAMPLE-5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.1	124.6	186.8
115	64.1	50.1	75.1

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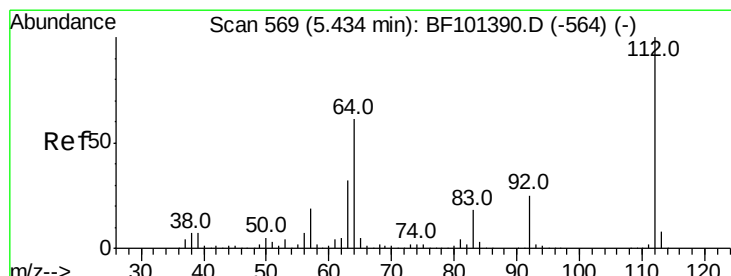
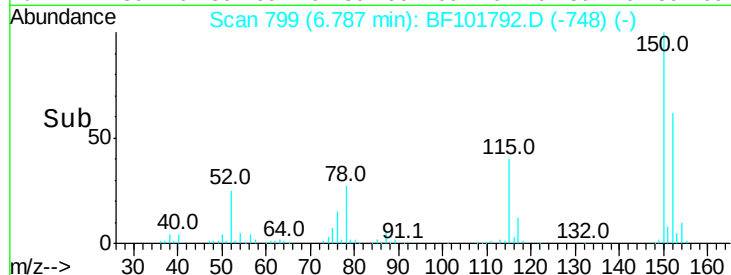
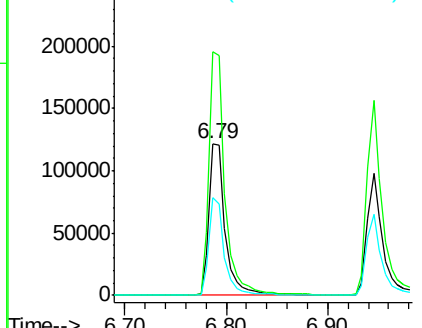


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

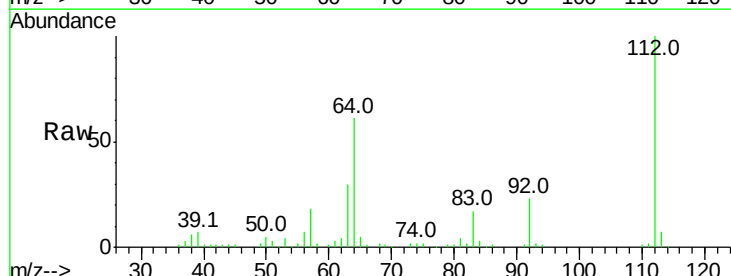
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 25.506 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.02 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	47.9	71.9
63	29.8	23.7	35.5

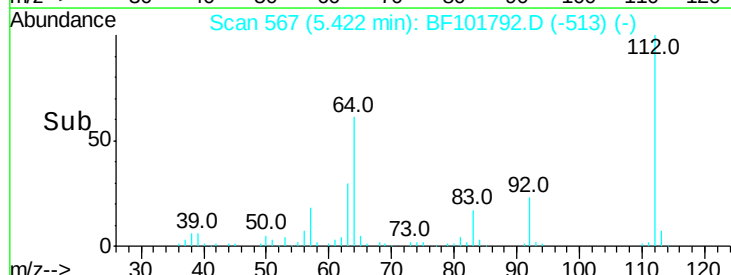
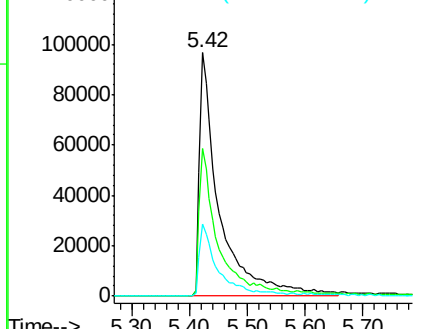


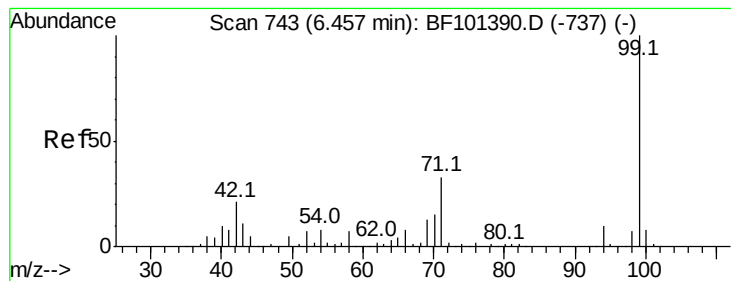
Abundance

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: 25.497 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Instrument :

BNA_F

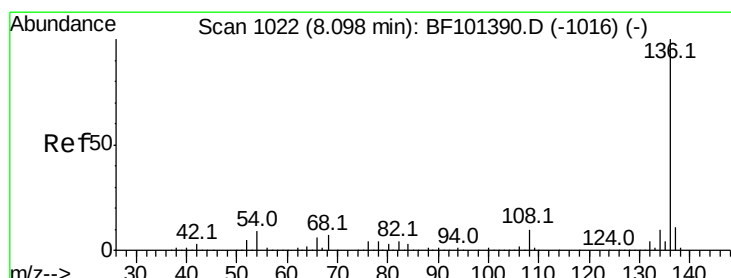
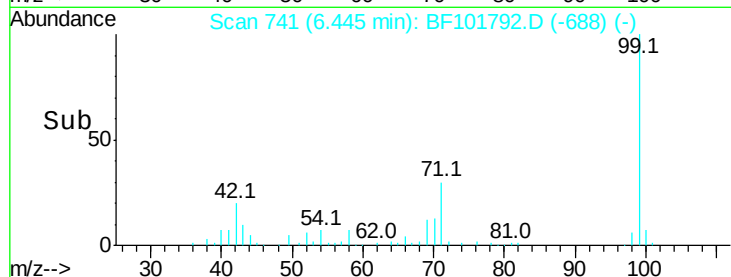
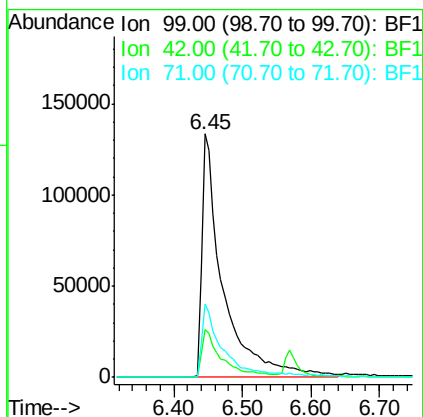
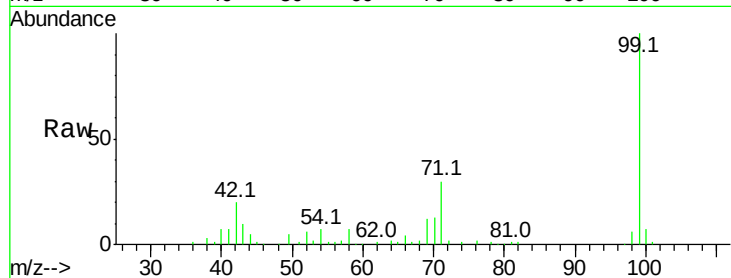
ClientSampleId :

SAMPLE-5DL

Tot Ion:	99	Resp:	291240
Ion Ratio	Lower	Upper	
99	100		
42	19.6	14.5	21.7
71	30.0	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

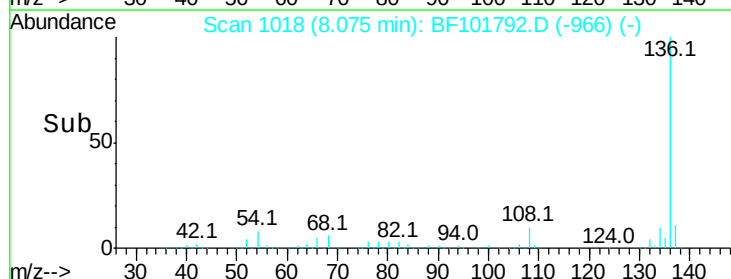
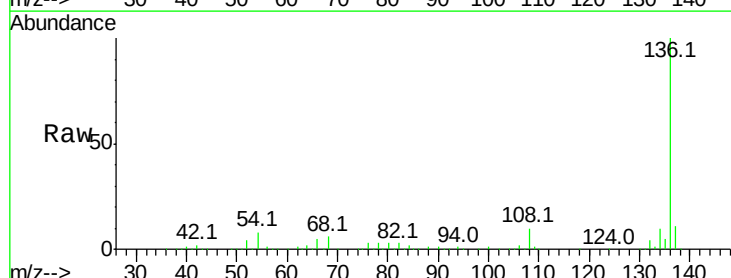
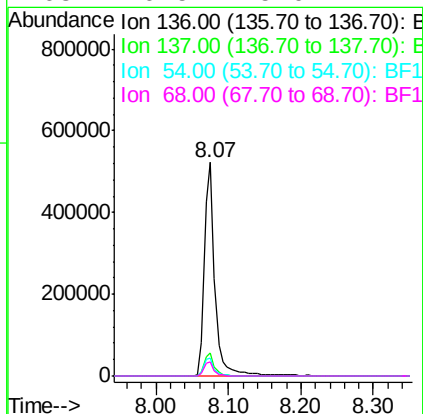
RT: 8.07 min Scan# 1018

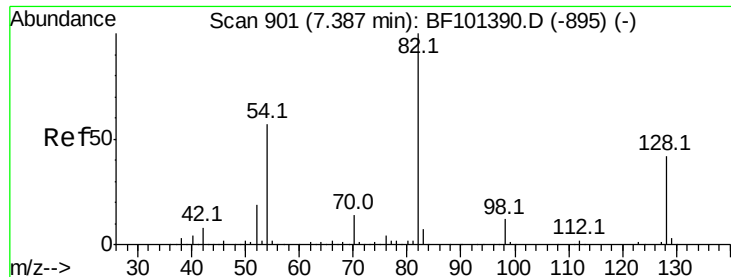
Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Tgt Ion:	136	Resp:	533046
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	8.1	6.6	9.8
68	6.5	5.0	7.4





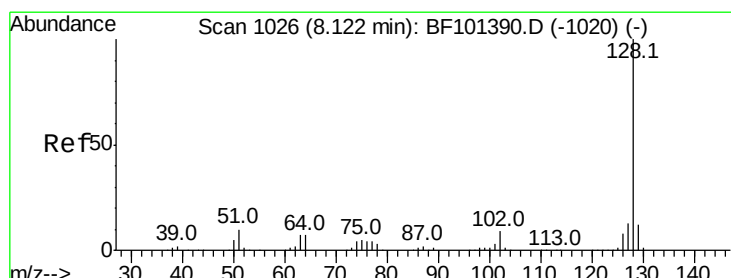
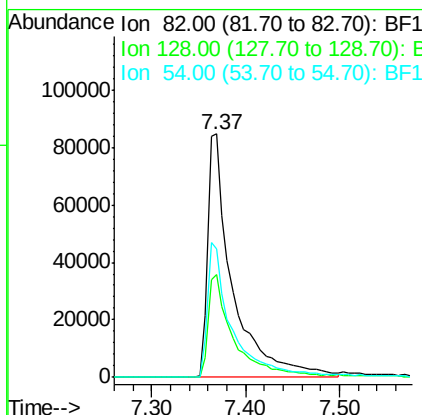
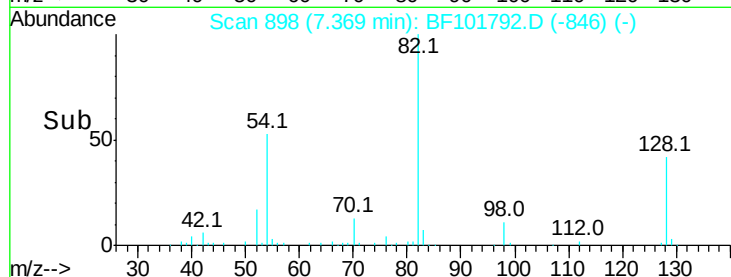
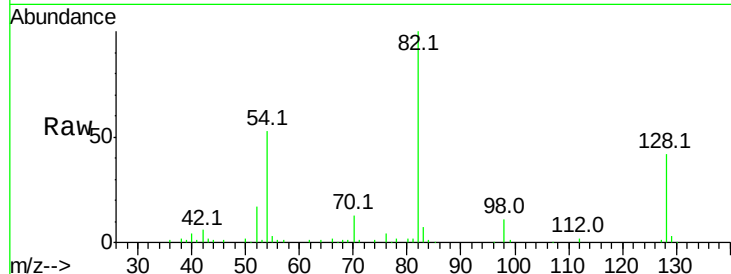
#23
 Nitrobenzene-d5
 Concen: 16.454 ng
 RT: 7.37 min Scan# 898
 Delta R.T. 0.01 min
 Lab File: BF101792.D
 Acq: 28 Dec 2017 8:15

Instrument :
 BNA_F
 ClientSampleID :
 SAMPLE-5DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.0	36.1	54.1
54	52.9	41.4	62.2

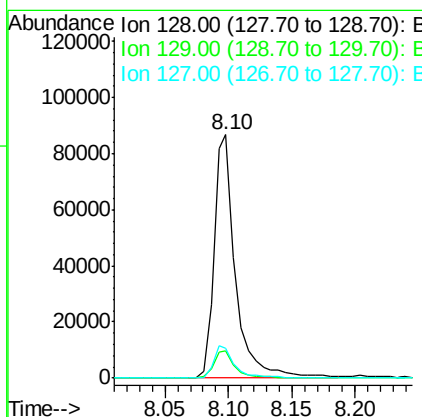
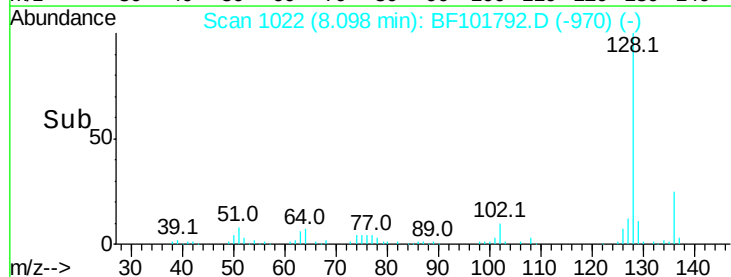
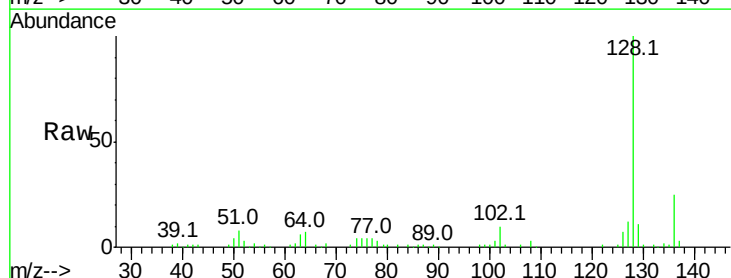
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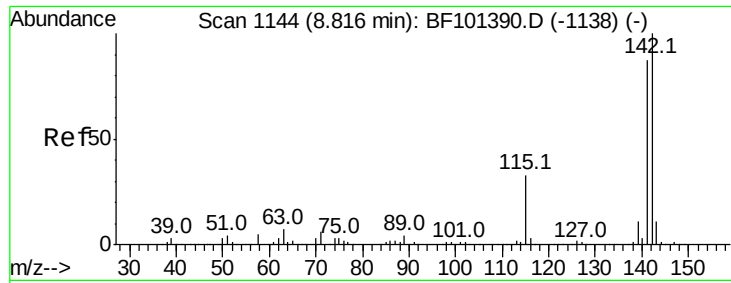
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#31
 Naphthalene
 Concen: 3.849 ng
 RT: 8.10 min Scan# 1022
 Delta R.T. 0.01 min
 Lab File: BF101792.D
 Acq: 28 Dec 2017 8:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.5	10.9	16.3





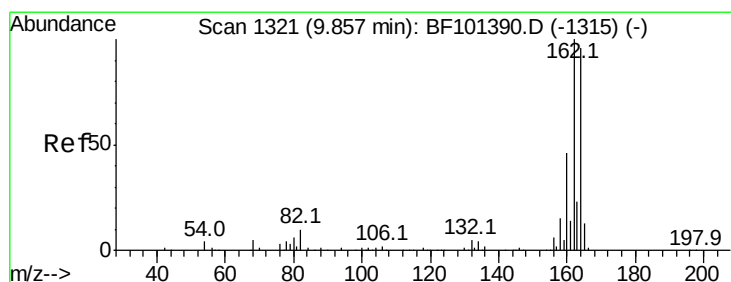
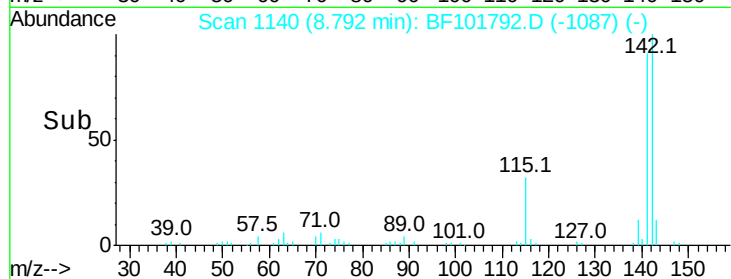
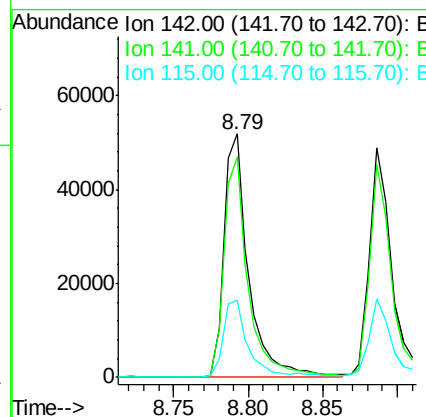
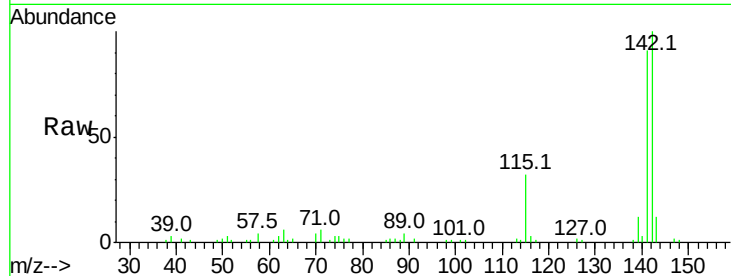
#37
2-Methylnaphthalene
Concen: 3.461 ng
RT: 8.79 min Scan# 1140
Delta R.T. 0.01 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Instrument :
BNA_F
ClientSampleId :
SAMPLE-5DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	31.7	26.1	39.1

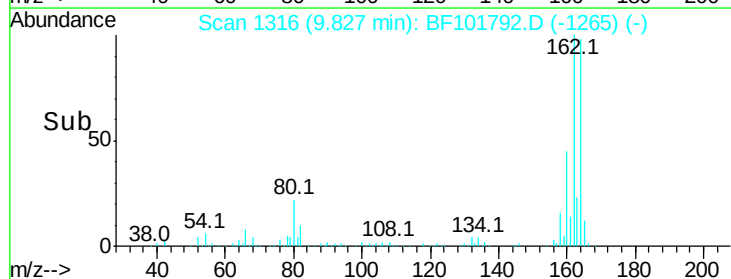
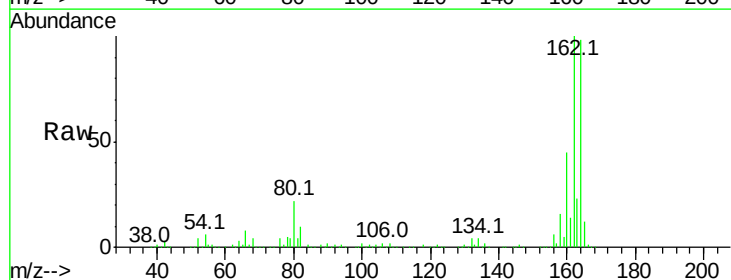
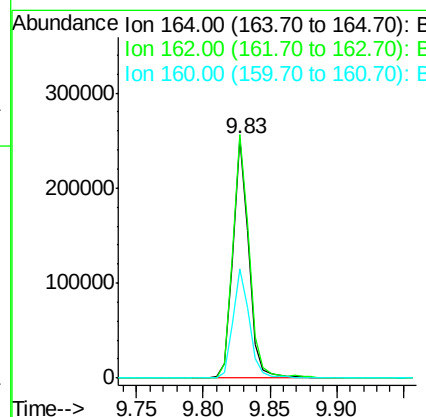
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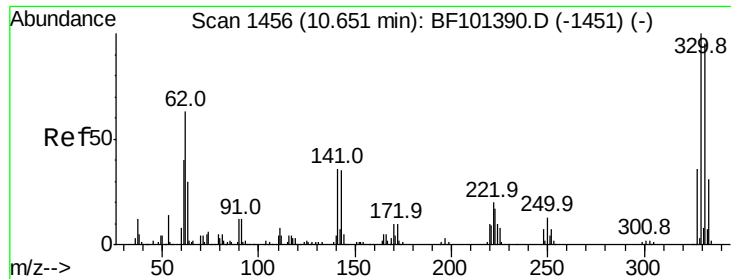
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.00 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	86.1	129.1
160	45.8	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 20.140 ng

RT: 10.63 min Scan# 1453

Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Instrument :

BNA_F

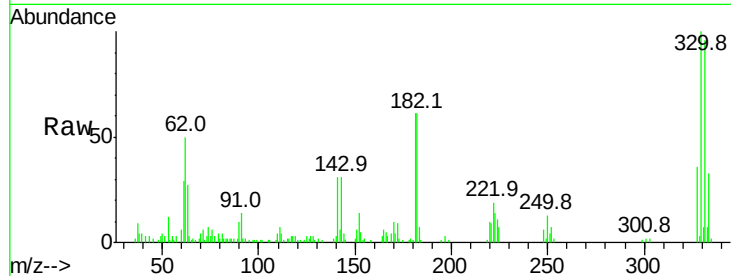
ClientSampled :

SAMPLE-5DL

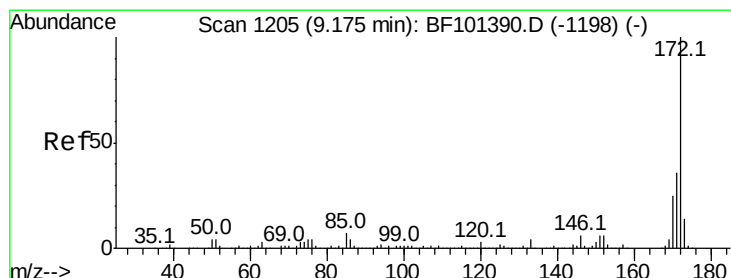
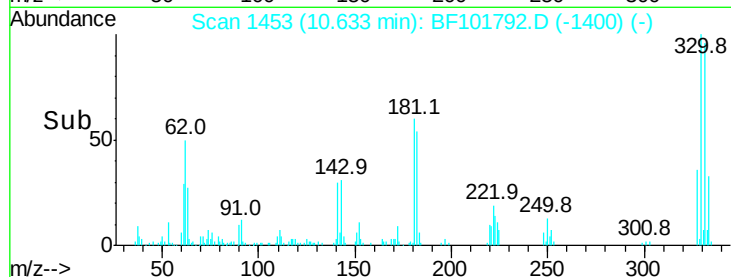
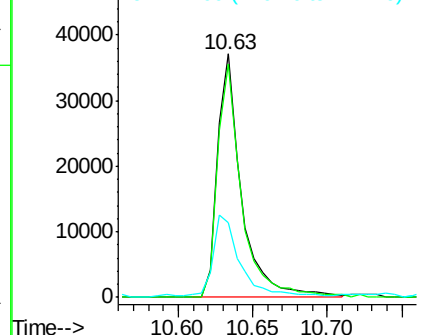
Tot Ion:	330	Resp:	41587
Ion Ratio	Lower	Upper	
330	100		
332	97.0	77.0	115.6
141	38.9	29.9	44.9

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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: 22.878 ng

RT: 9.15 min Scan# 1200

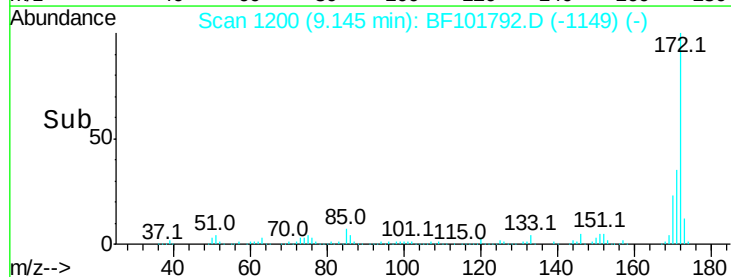
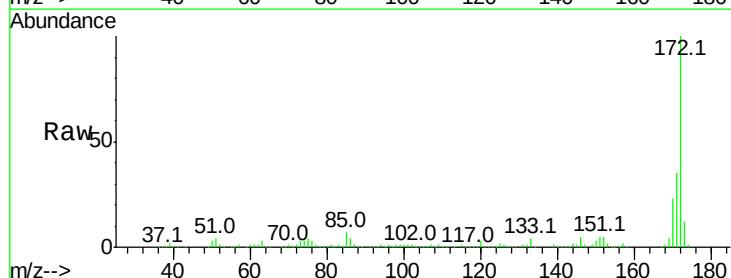
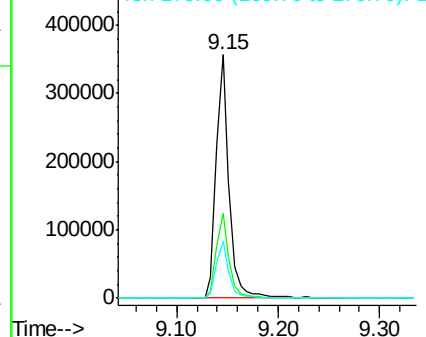
Delta R.T. -0.00 min

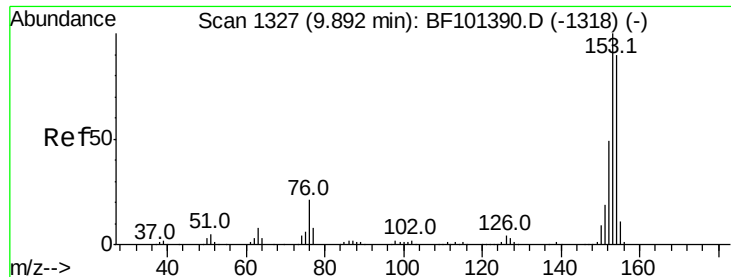
Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Tgt Ion:	172	Resp:	316052
Ion Ratio	Lower	Upper	
172	100		
171	35.0	29.7	44.5
170	23.1	19.6	29.4

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: 4.965 ng

RT: 9.86 min Scan# 1322

Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Instrument :

BNA_F

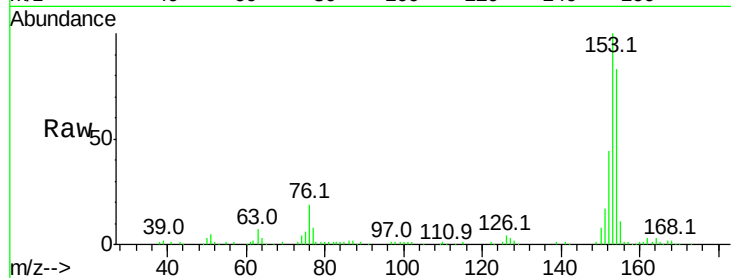
ClientSampleId :

SAMPLE-5DL

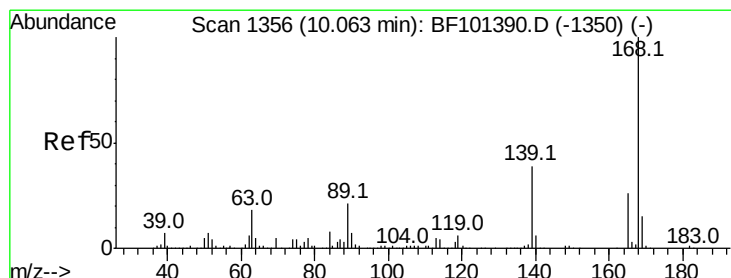
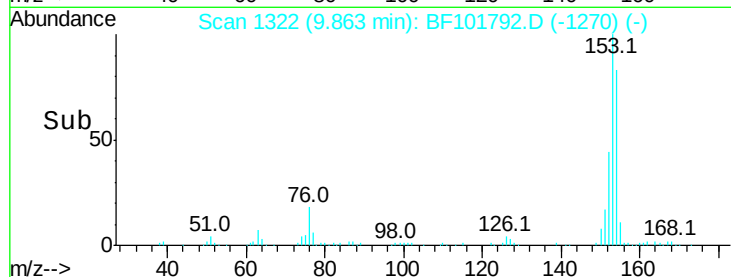
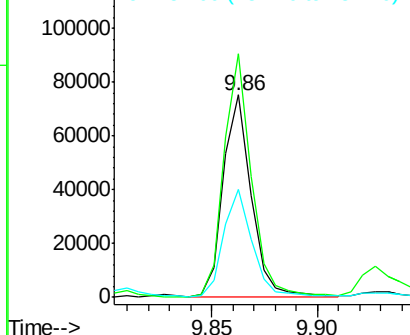
Tot Ion:	154	Resp:	68508
Ion Ratio	Lower	Upper	
154	100		
153	120.2	91.2	136.8
152	53.2	43.8	65.8

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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: 9.155 ng

RT: 10.04 min Scan# 1352

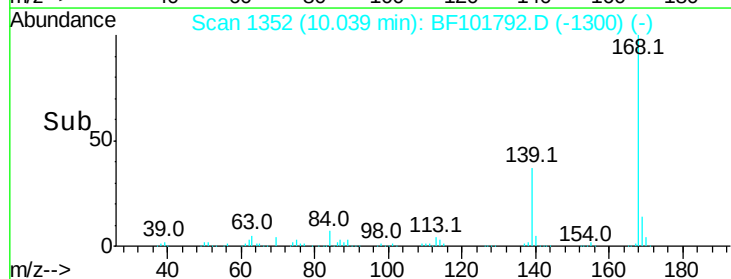
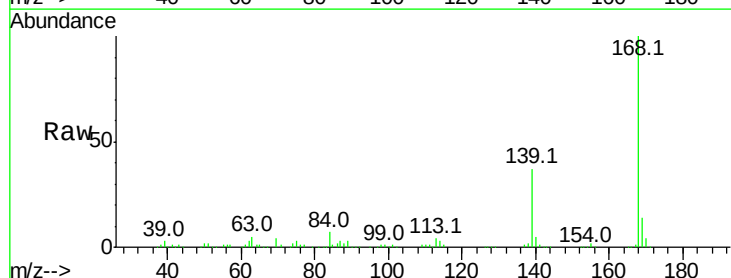
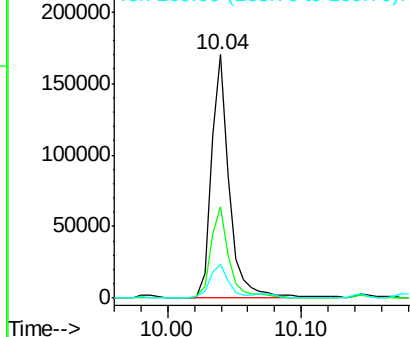
Delta R.T. 0.01 min

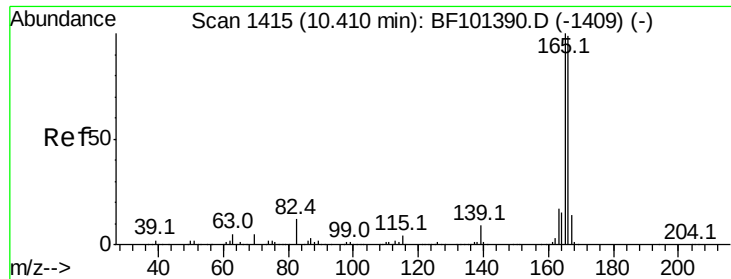
Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Tgt Ion:	168	Resp:	160552
Ion Ratio	Lower	Upper	
168	100		
139	37.3	30.1	45.1
169	13.9	10.9	16.3

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





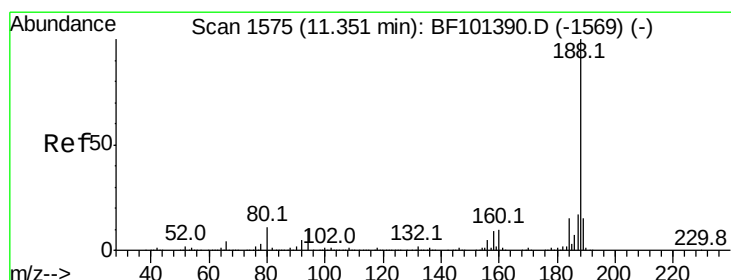
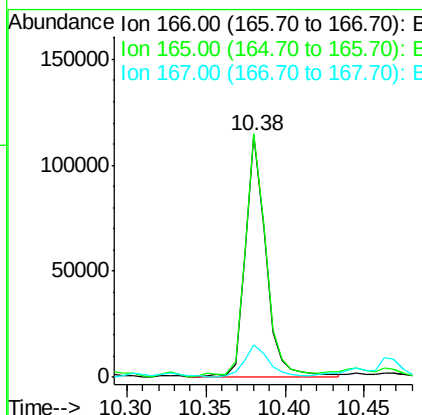
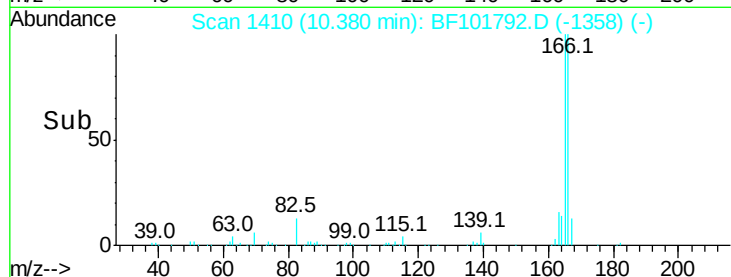
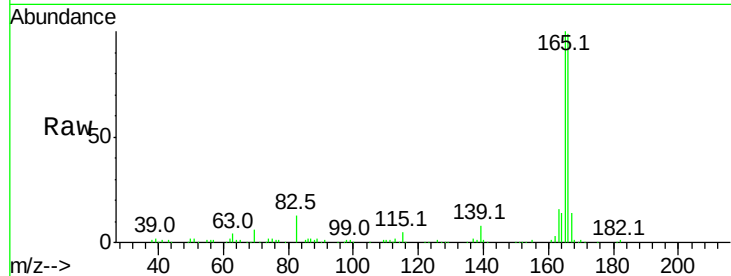
#57
Fluorene
Concen: 6.995 ng
RT: 10.38 min Scan# 1410
Delta R.T. 0.01 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Instrument :
BNA_F
ClientSampleId :
SAMPLE-5DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.7	79.8	119.8	
167	13.6	10.6	16.0	

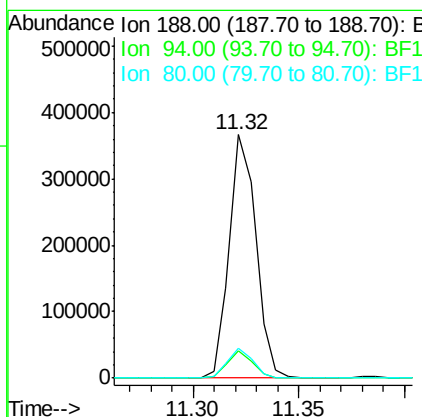
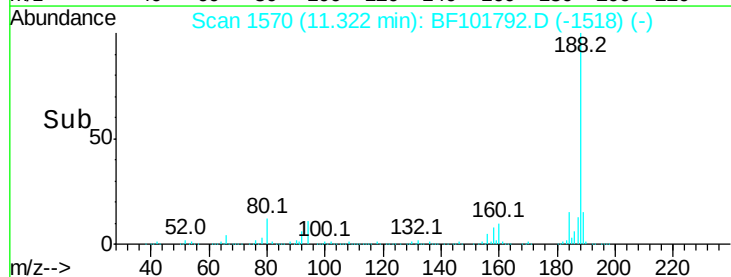
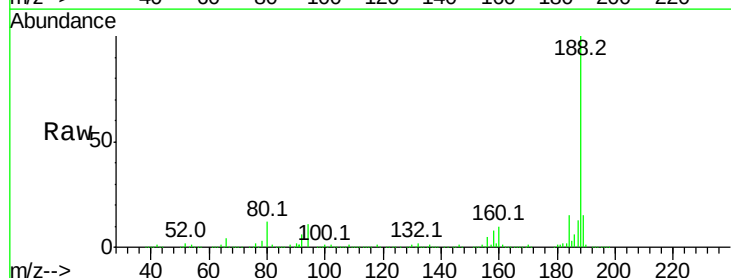
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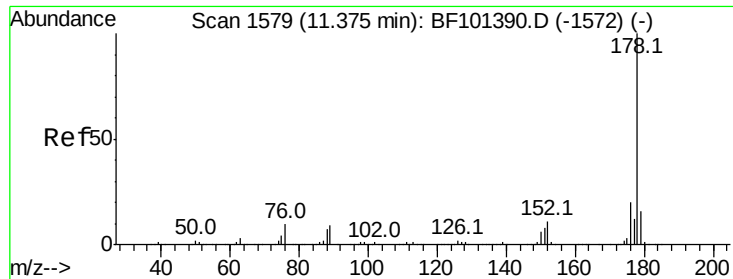
Sohil
12/28/2017 2:03:30 PM



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. 0.01 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.4	8.5	12.7	
80	12.3	9.2	13.8	





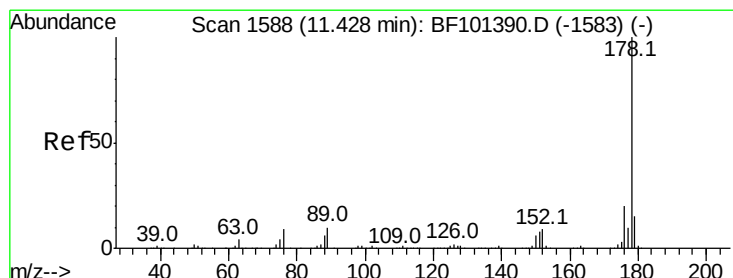
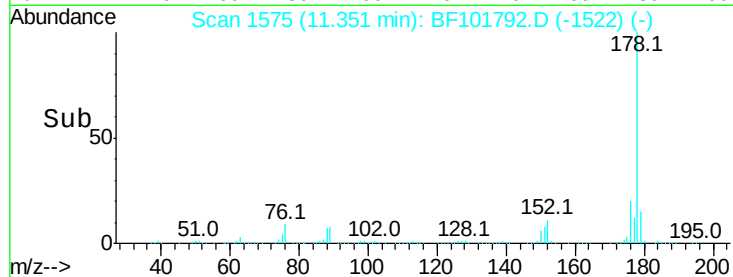
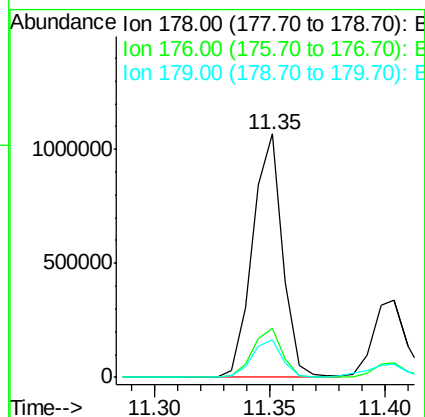
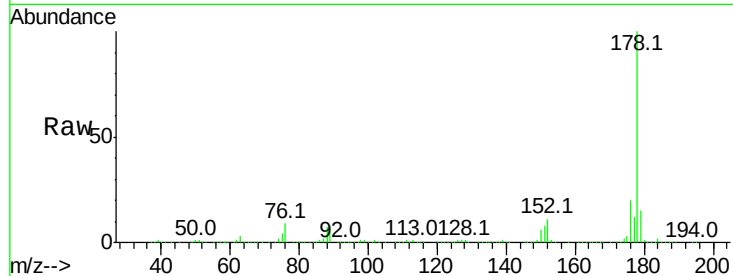
#70
Phenanthrene
Concen: 54.242 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.01 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Instrument :
BNA_F
ClientSampleId :
SAMPLE-5DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.8
179	15.4	13.0	19.6

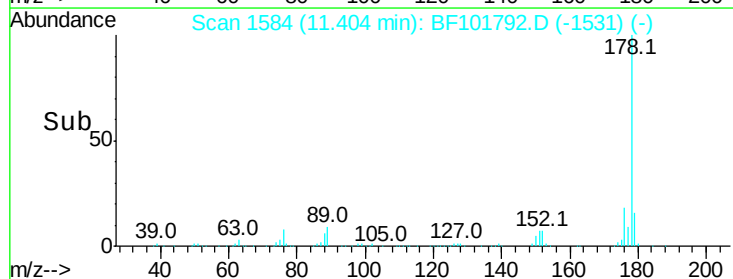
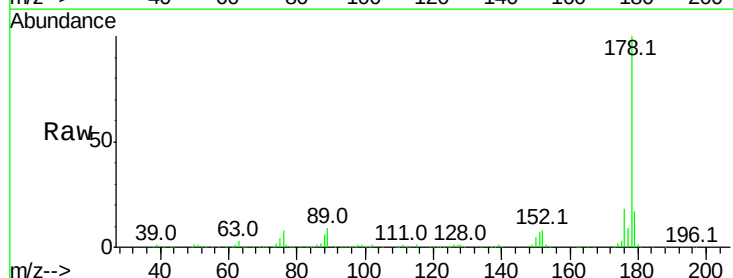
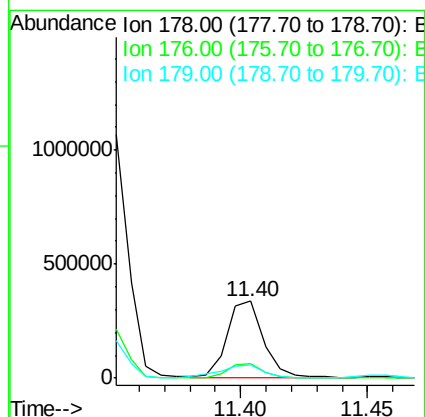
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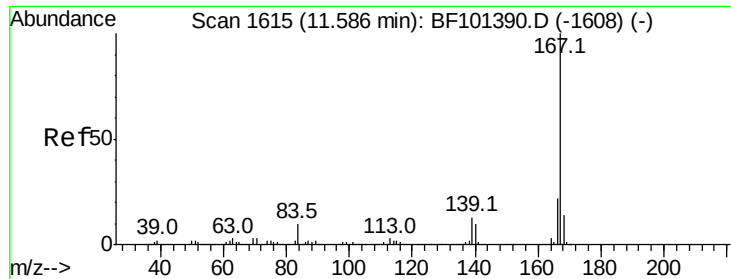
Sohil
12/28/2017 2:03:30 PM



#71
Anthracene
Concen: 18.408 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.01 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	16.5	12.6	19.0





#72

Carbazole

Concen: 5.730 ng

RT: 11.57 min Scan# 1612

Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Instrument :

BNA_F

ClientSampleId :

SAMPLE-5DL

Tot Ion:167 Resp: 97766

Ion Ratio Lower Upper

167 100

166 22.5 17.6 26.4

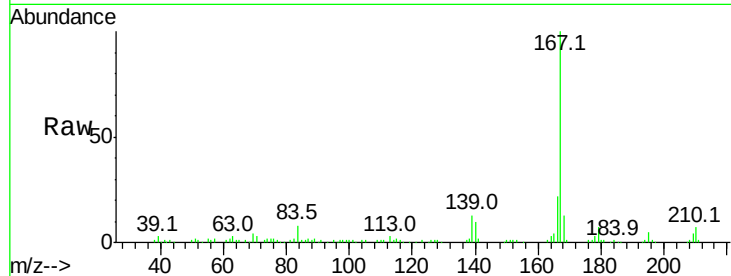
139 13.0 10.9 16.3

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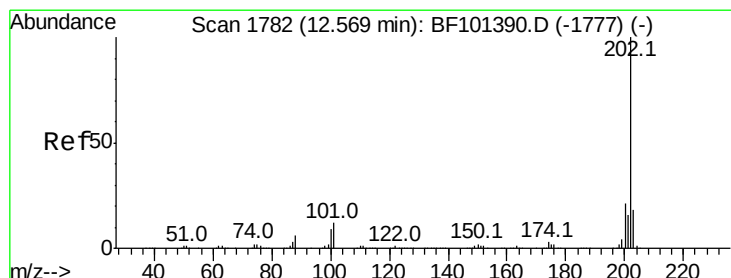
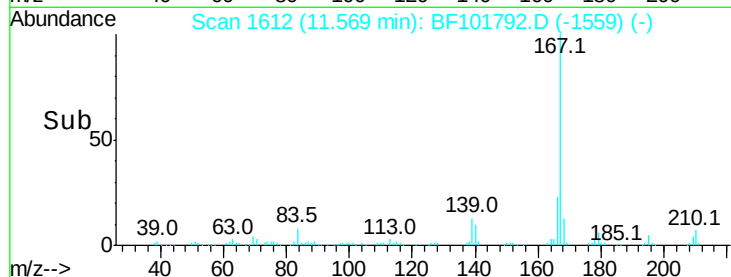
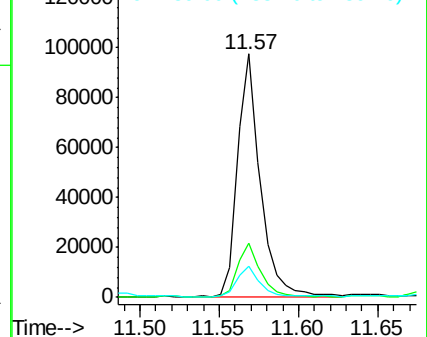
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 43.744 ng

RT: 12.54 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

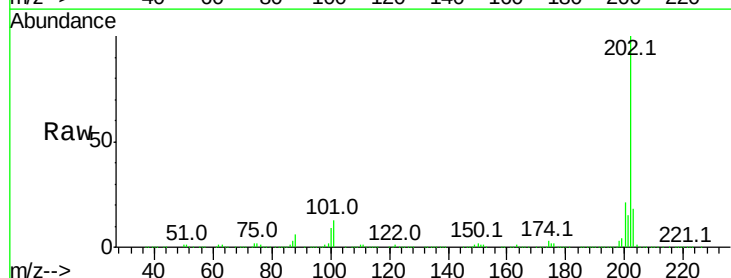
Tgt Ion:202 Resp: 819199

Ion Ratio Lower Upper

202 100

101 12.7 0.0 34.1

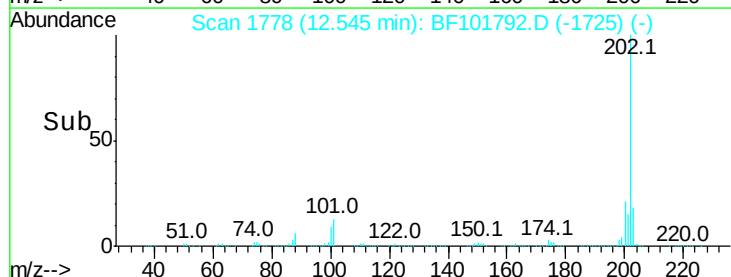
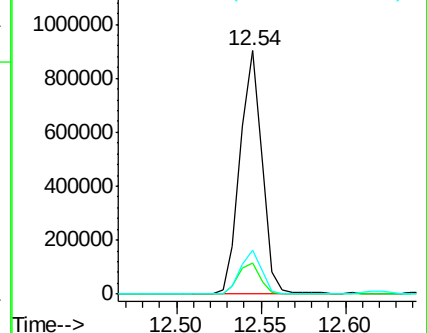
203 18.0 0.0 38.1

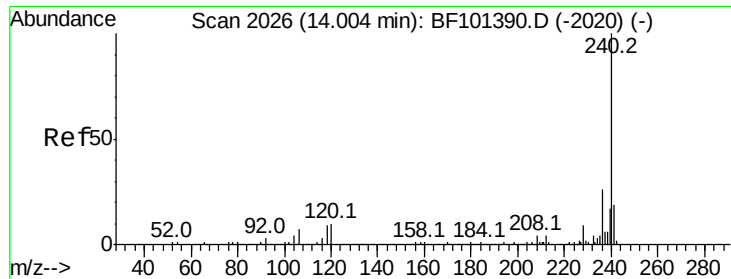


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Instrument :

BNA_F

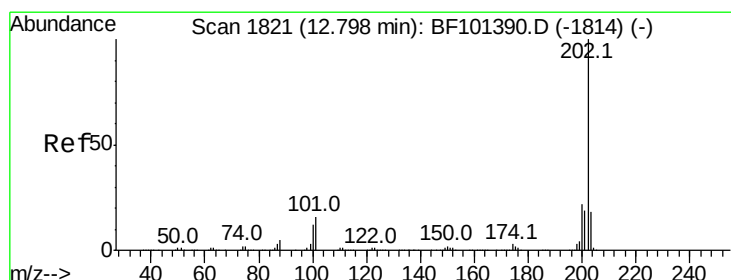
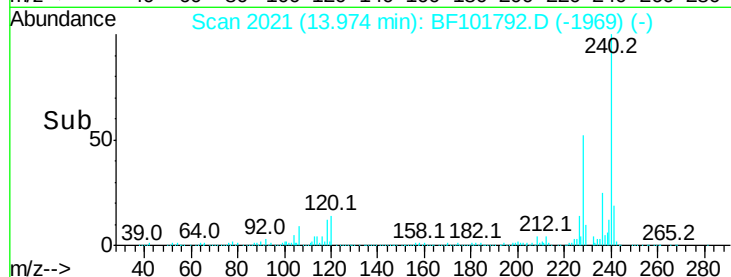
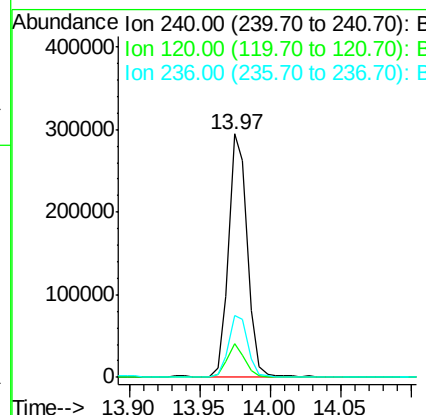
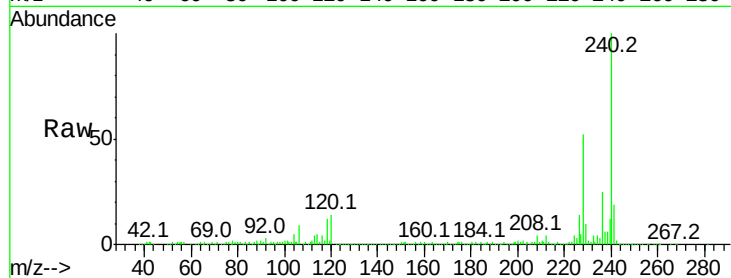
ClientSampleId :

SAMPLE-5DL

Tot Ion	Ratio	Resp Lower	Upper
240	100		
120	13.8	9.5	14.3
236	25.4	20.7	31.1

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#77

Pyrene

Concen: 33.765 ng

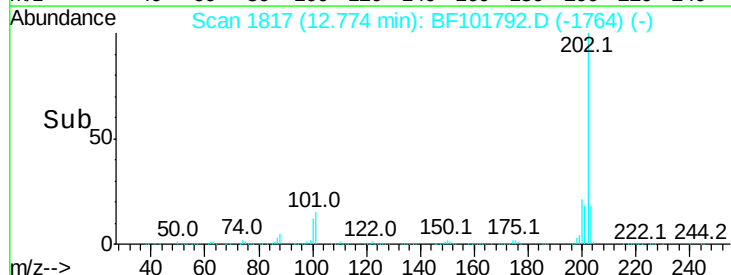
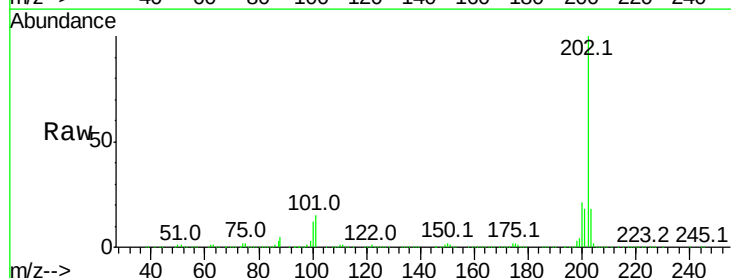
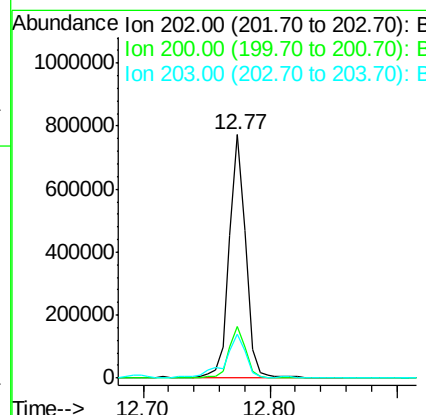
RT: 12.77 min Scan# 1817

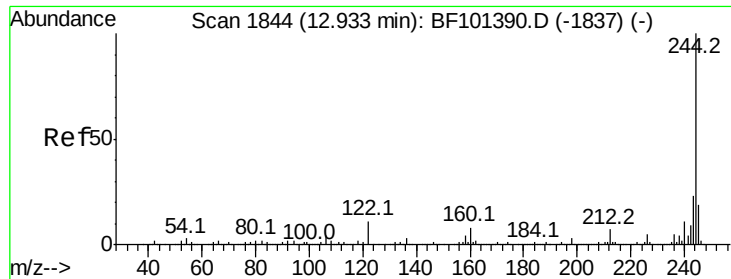
Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
200	21.4	17.4	26.2
203	17.9	14.3	21.5





#78

Terphenyl-d14

Concen: 19.043 ng

RT: 12.90 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Instrument :

BNA_F

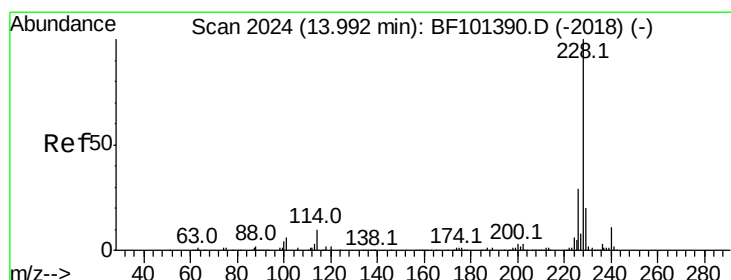
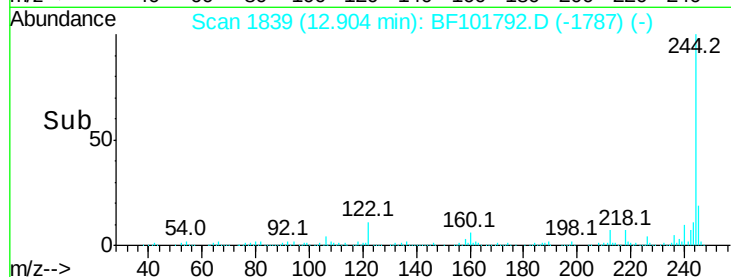
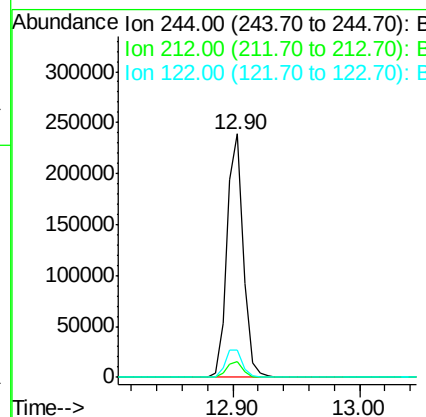
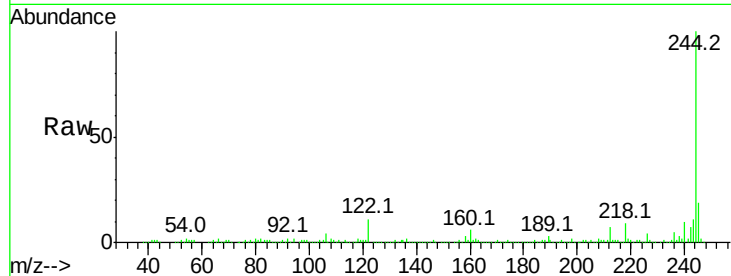
ClientSampleId :

SAMPLE-5DL

Tot Ion:	244	Resp:	214456
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	11.1	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 19.337 ng

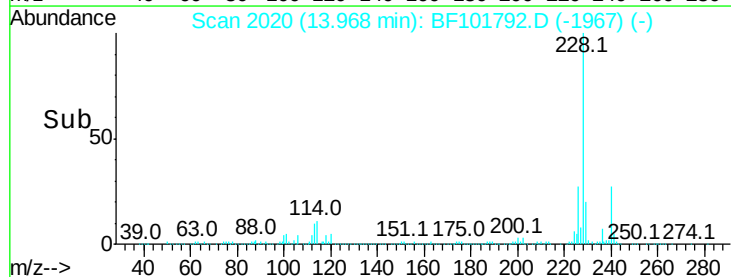
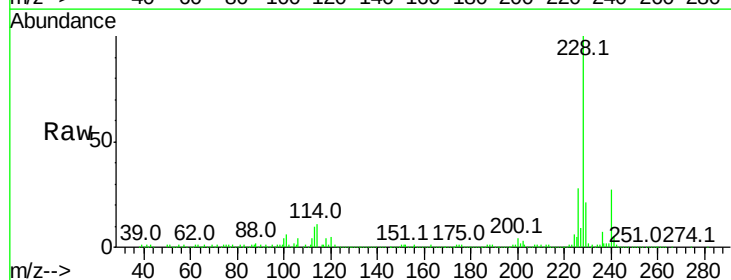
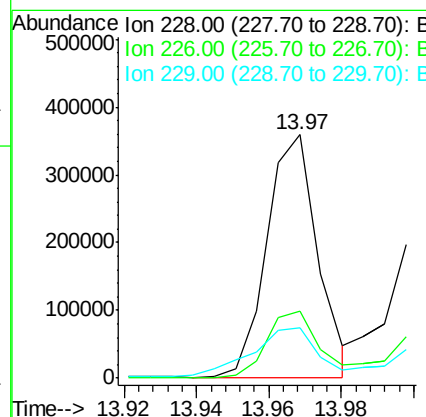
RT: 13.97 min Scan# 2020

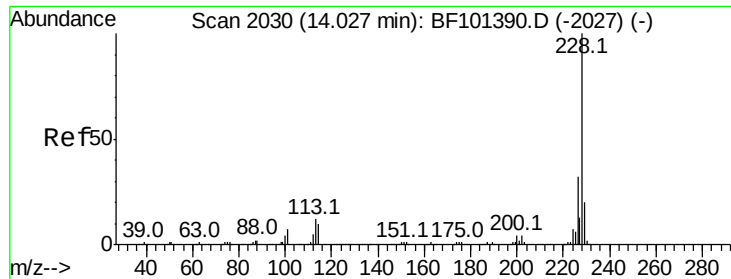
Delta R.T. 0.01 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Tgt Ion:	228	Resp:	346651
Ion Ratio	Lower	Upper	
228	100		
226	27.6	22.6	33.8
229	20.6	15.8	23.6





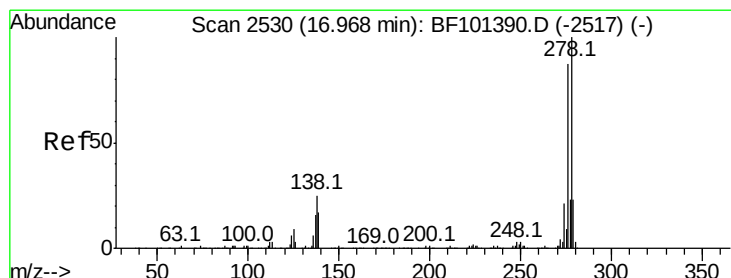
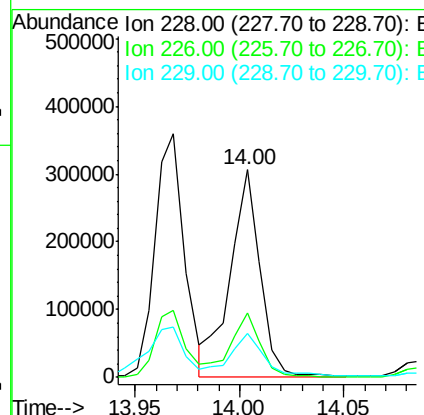
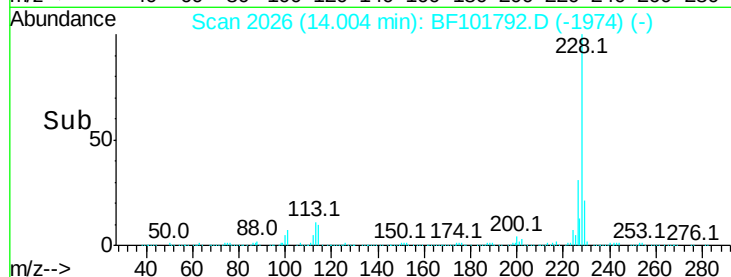
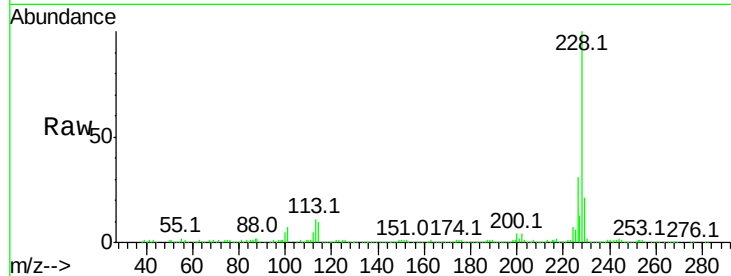
#82
Chrysene
Concen: 18.458 ng/mL
RT: 14.00 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Instrument :
BNA_F
ClientSampleID :
SAMPLE-5DL

Tot Ion:	228	Resp:	312420
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.0	37.6
229	20.9	16.2	24.4

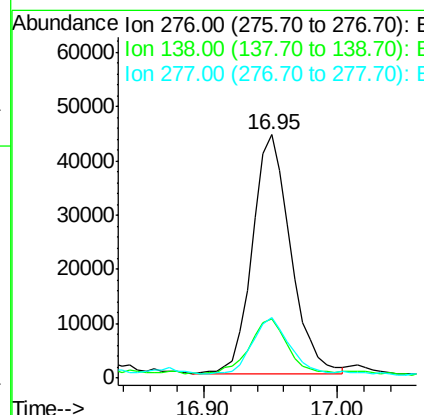
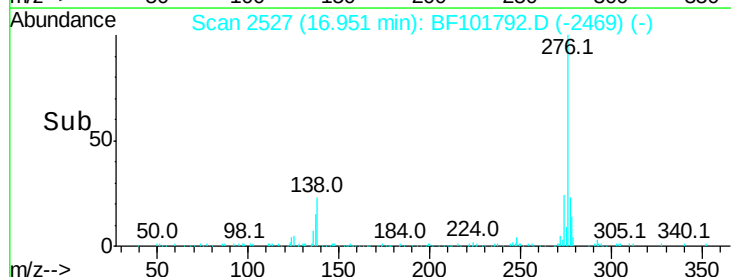
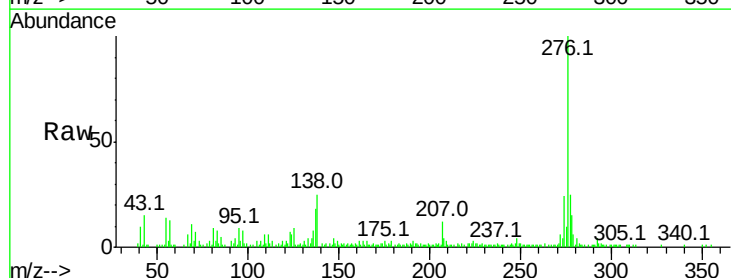
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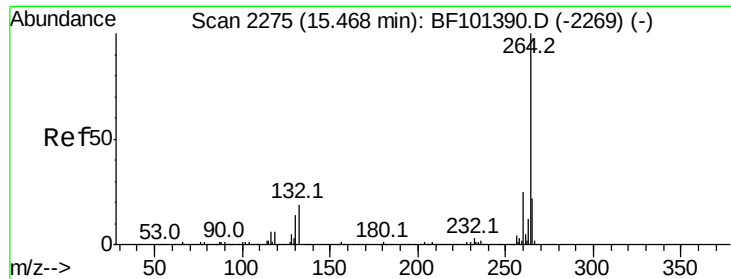
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 5.756 ng
RT: 16.95 min Scan# 2527
Delta R.T. 0.04 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Tgt Ion:	276	Resp:	86759
Ion Ratio	Lower	Upper	
276	100		
138	23.0	25.0	37.6#
277	21.9	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.45 min Scan# 2272

Delta R.T. 0.02 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Instrument :

BNA_F

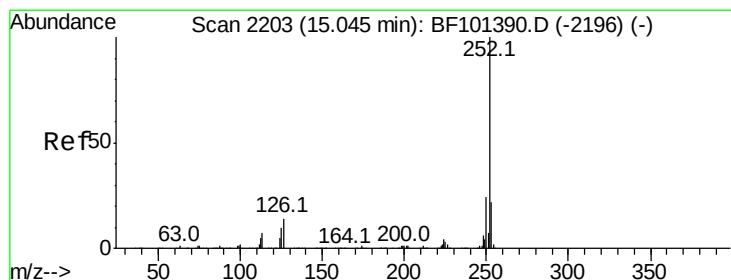
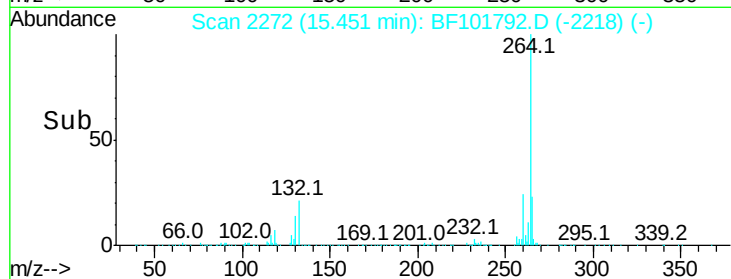
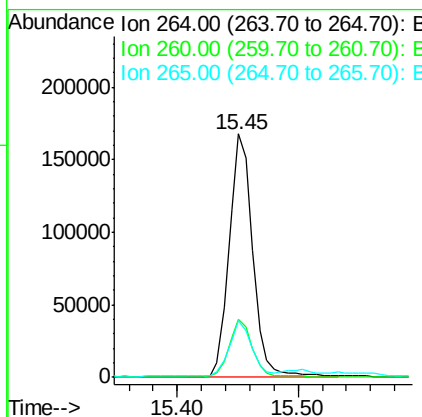
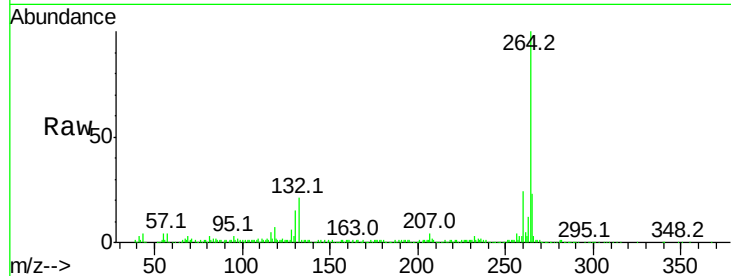
ClientSampleId :

SAMPLE-5DL

Tot Ion:	264	Resp:	226939
Ion Ratio	Lower	Upper	
264	100		
260	24.0	19.2	28.8
265	23.4	17.5	26.3

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#87

Benzo(b)fluoranthene

Concen: 20.115 ng m

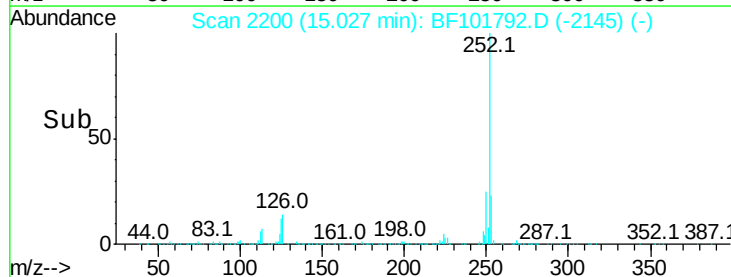
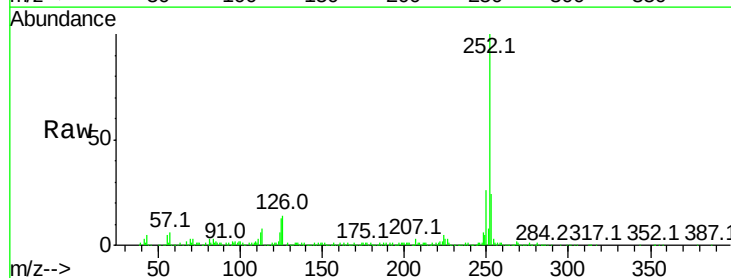
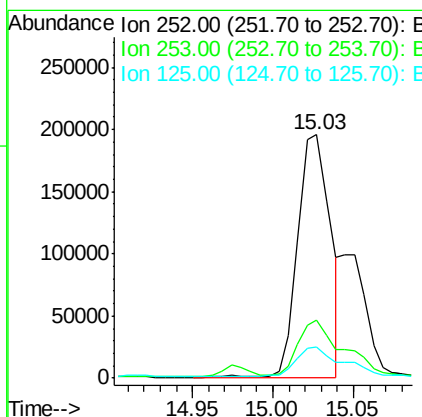
RT: 15.03 min Scan# 2200

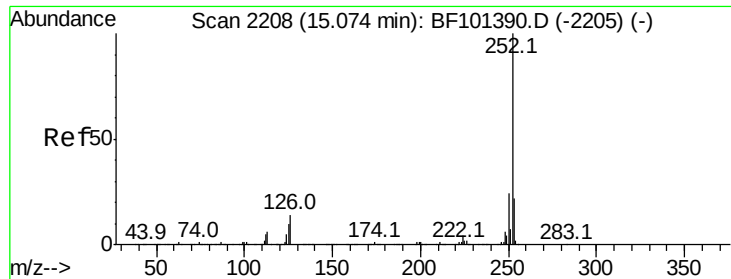
Delta R.T. 0.02 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Tgt Ion:	252	Resp:	278239
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.0	25.6
125	12.8	9.0	13.6





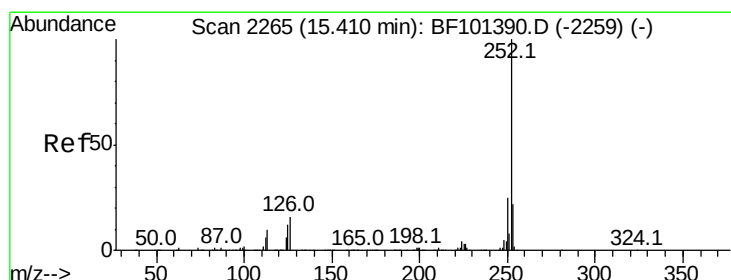
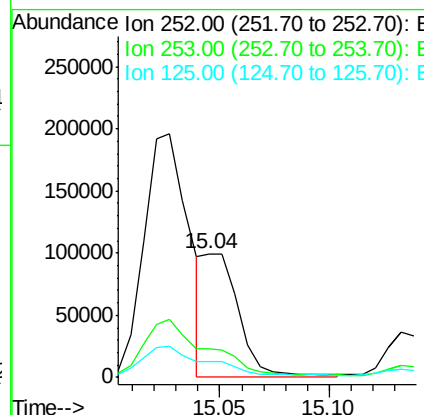
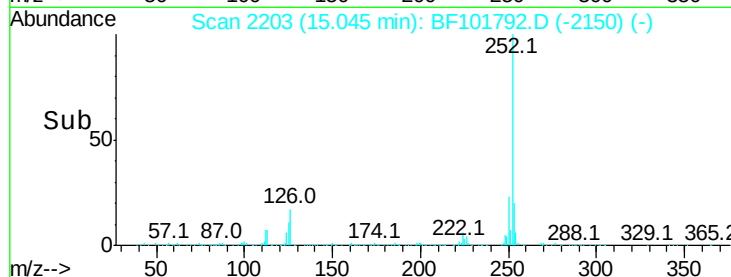
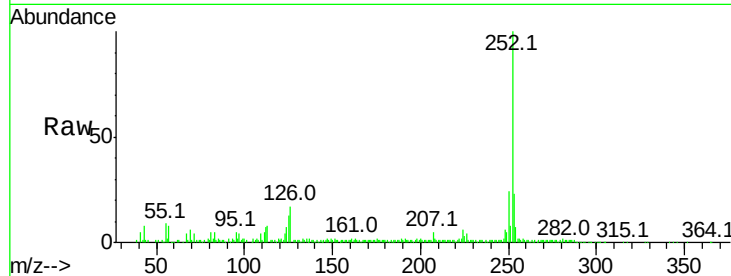
#88
Benzo(k)fluoranthene
Concen: 8.316 ng/mL
RT: 15.04 min Scan# 2203
Delta R.T. 0.01 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Instrument :
BNA_F
ClientSampleID :
SAMPLE-5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	13.0	10.2	15.2

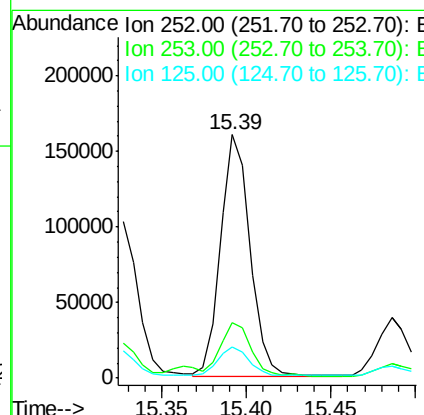
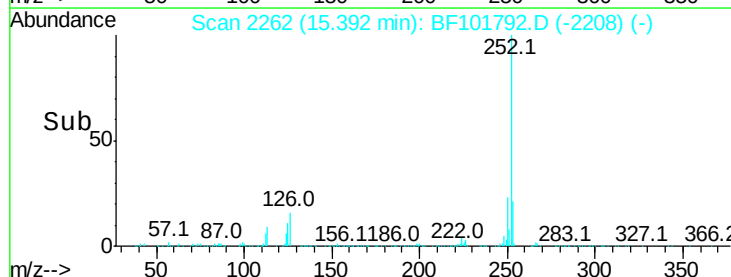
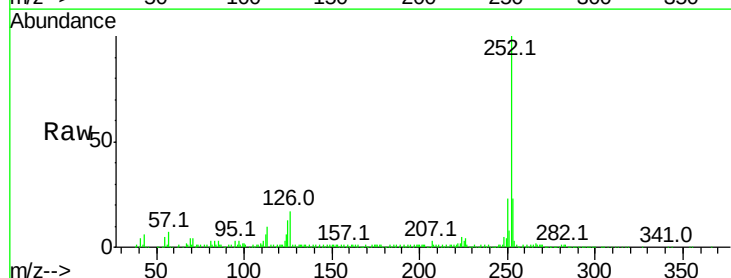
Manual Integrations
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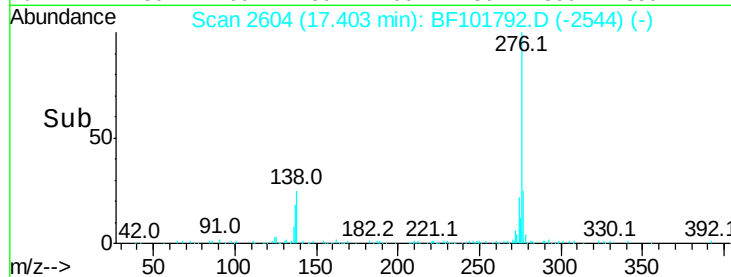
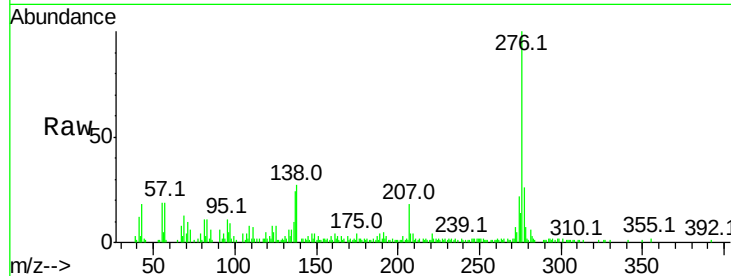
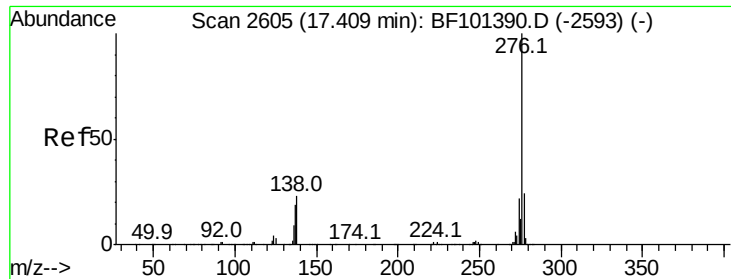
Sohil
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#89
Benzo(a)pyrene
Concen: 15.367 ng/mL
RT: 15.39 min Scan# 2262
Delta R.T. 0.02 min
Lab File: BF101792.D
Acq: 28 Dec 2017 8:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	12.6	9.8	14.6





#91

Benzo(a,h,i)perylene

Concen: 6.982 ng

RT: 17.40 min Scan# 2604

Delta R.T. 0.05 min

Lab File: BF101792.D

Acq: 28 Dec 2017 8:15

Tot Ion:	276	Resp:	75695
Ion Ratio	Lower	Upper	
276	100		
277	26.2	17.9	26.9
138	27.1	21.8	32.8

Instrument :

BNA_F

ClientSampleId :

SAMPLE-5DL

Manual Integrations
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