

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
 Data File : BF107280.D
 Acq On : 10 Jul 2018 18:35
 Operator : JU/SJ
 Sample : J3891-05RE
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230RE

Manual Integrations
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Sohil
 7/11/2018 11:22:55 AM

Quant Time: Jul 11 02:34:30 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 29 14:38:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	30943	20.00	ng	-0.02
21) Naphthalene-d8	8.22	136	106903	20.00	ng	-0.02
38) Acenaphthene-d10	9.98	164	50062	20.00	ng	-0.02
63) Phenanthrene-d10	11.48	188	105461	20.00	ng	-0.02
75) Chrysene-d12	14.14	240	97178	20.00	ng	-0.03
86) Perylene-d12	15.68	264	71986	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	174748	95.63	ng	-0.02
7) Phenol-d6	6.58	99	205483	90.04	ng	-0.03
23) Nitrobenzene-d5	7.50	82	120316	62.55	ng	-0.04
41) 2,4,6-Tribromophenol	10.78	330	54231	93.46	ng	-0.02
44) 2-Fluorobiphenyl	9.30	172	179116	55.43	ng	-0.03
78) Terphenyl-d14	13.06	244	208049	51.86	ng	-0.02
Target Compounds						
20) 3+4-Methylphenols	7.38	107	452	Below Cal		Qvalue # 69
31) Naphthalene	8.24	128	28900	5.782	ng	99
37) 2-Methylnaphthalene	8.94	142	8261	2.494	ng	95
49) Dimethylphthalate	9.69	163	38683	10.303	ng	97
51) Acenaphthene	10.01	154	10697	3.426	ng	99
54) Dibenzofuran	10.19	168	18043	4.220	ng	94
57) Fluorene	10.53	166	24025	7.082	ng	99
70) Phenanthrene	11.51	178	195247	38.385	ng	98
71) Anthracene	11.55	178	54305	10.460	ng	99
72) Carbazole	11.71	167	16573	3.409	ng	99
74) Fluoranthene	12.70	202	233890	41.718	ng	97
77) Pvrene	12.94	202	205334	32.042	ng	100
80) Benzo(a)anthracene	14.12	228	99961	16.878	ng	98
82) Chrysene	14.16	228	78116	14.336	ng	98
83) Bis(2-ethylhexyl)phthalate	14.08	149	6959	2.066	ng	# 87
85) Indeno(1,2,3-cd)pyrene	17.26	276	34676	7.499	ng	# 88
87) Benzo(b)fluoranthene	15.22	252	84915m	18.989	ng	
88) Benzo(k)fluoranthene	15.24	252	25417m	5.969	ng	
89) Benzo(a)pvrene	15.61	252	61191	15.393	ng	96
90) Dibenzo(a,h)anthracene	17.26	278	10500m	3.117	ng	
91) Benzo(q,h,i)perylene	17.75	276	33685	10.230	ng	# 89

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

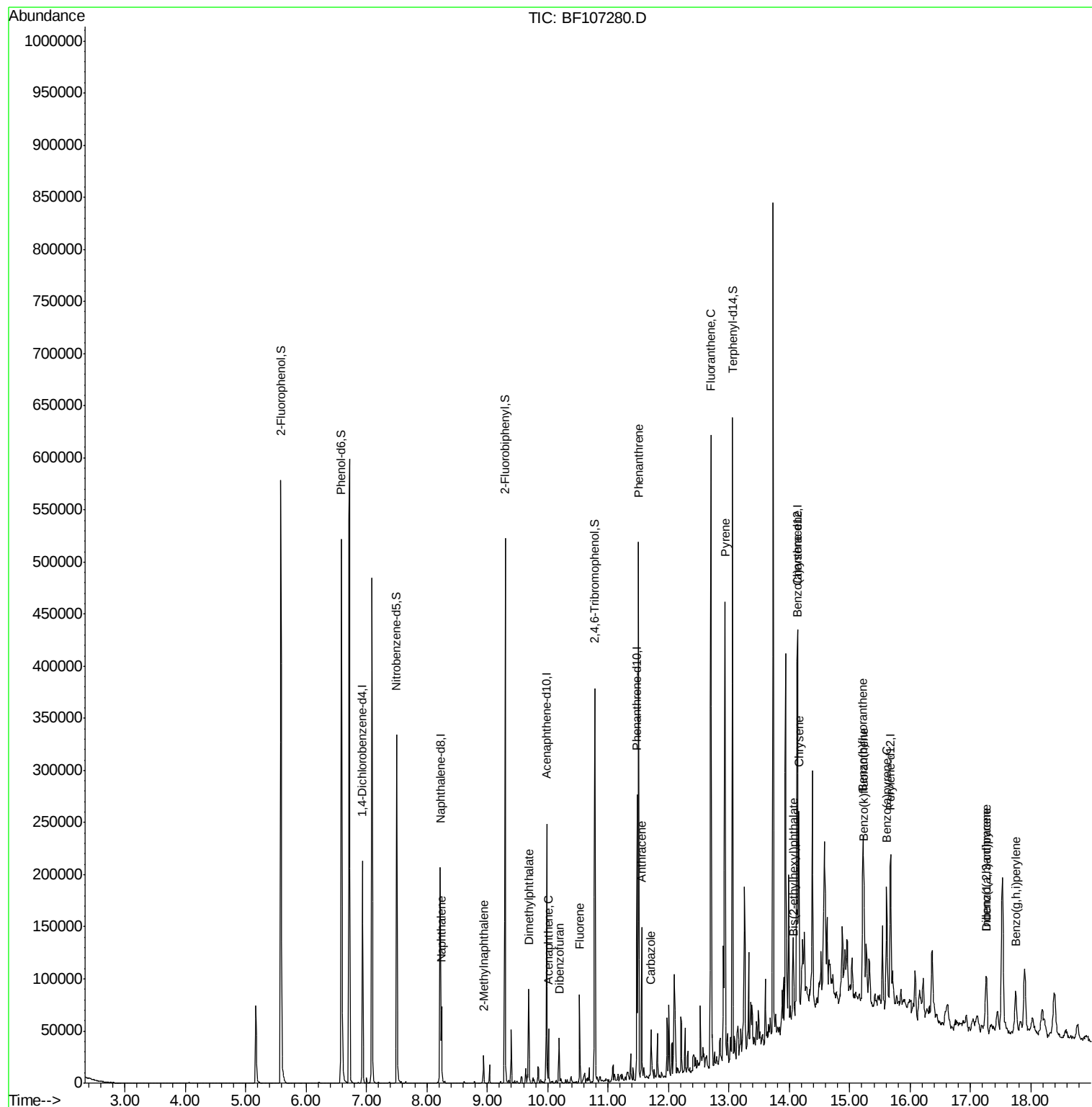
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
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ALS Vial : 20 Sample Multiplier: 1

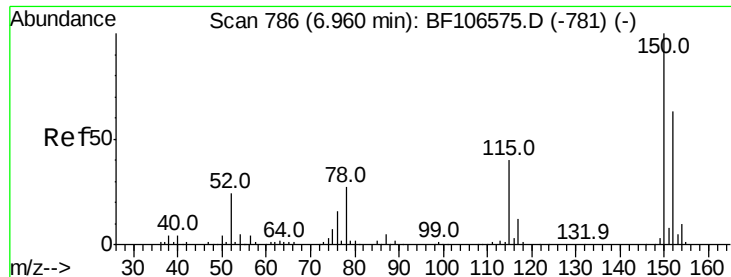
Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

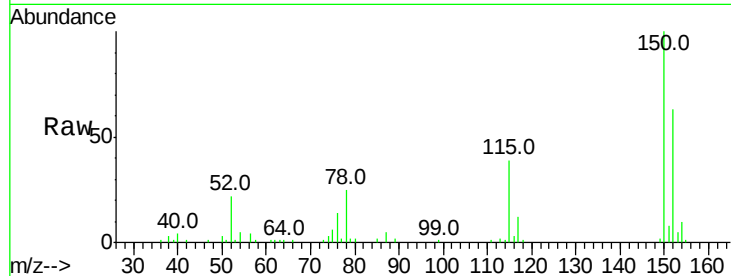
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 782
Delta R.T. -0.02 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.4	124.6	186.8
115	62.1	50.1	75.1

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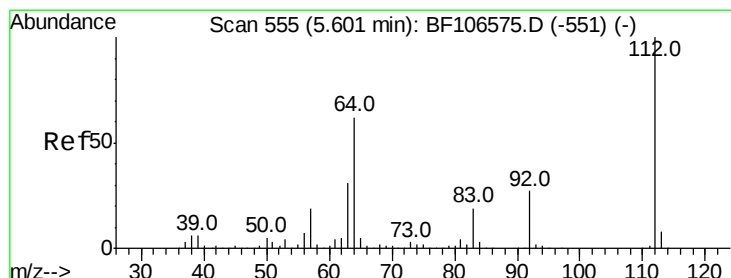
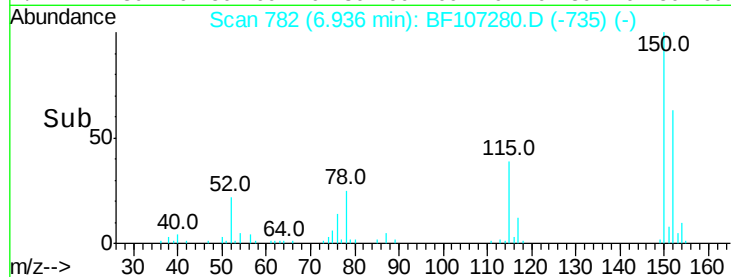
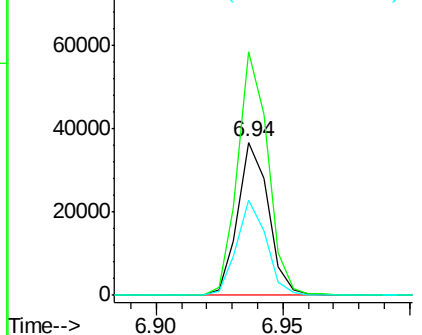


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

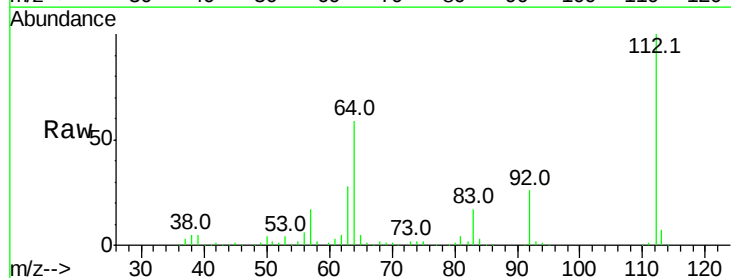
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 95.629 ng
RT: 5.58 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.4	47.9	71.9
63	28.4	23.7	35.5

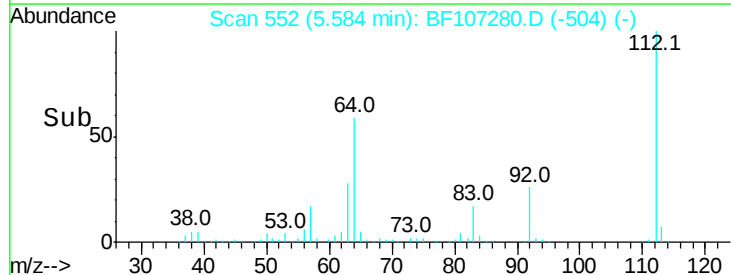
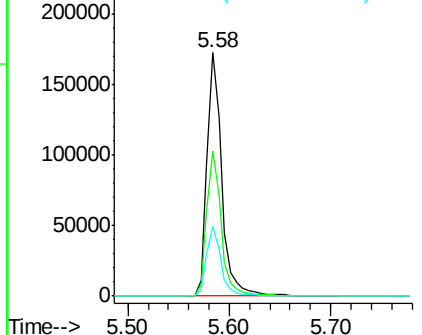


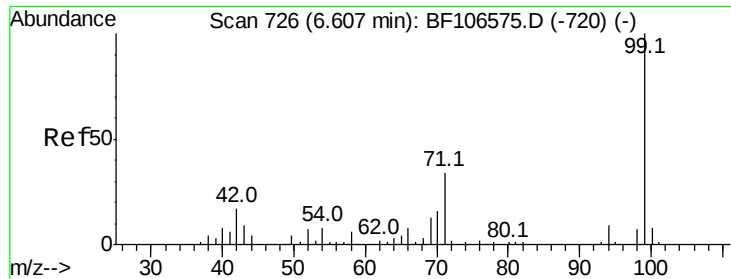
Abundance

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: 90.044 ng

RT: 6.58 min Scan# 722

Delta R.T. -0.03 min

Lab File: BF107280.D

Acq: 10 Jul 2018 18:35

Instrument :

BNA_F

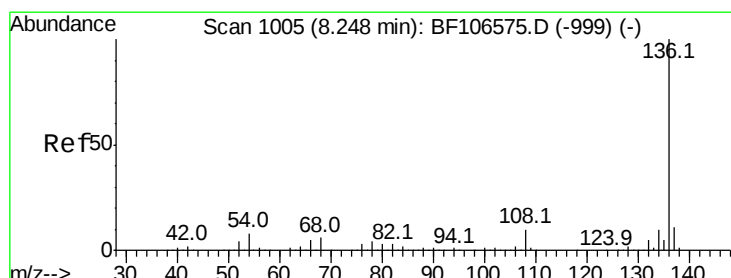
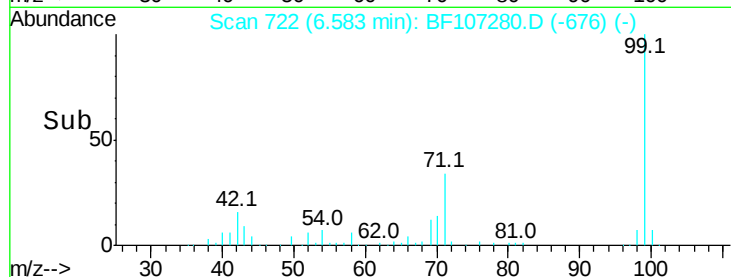
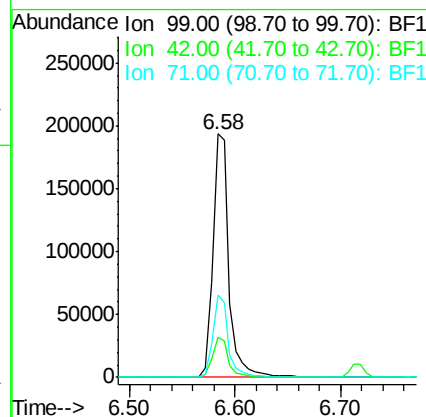
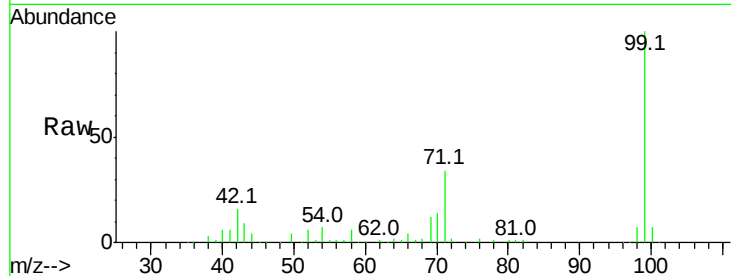
ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		205483		
42	16.4	14.5	21.7		
71	33.7	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

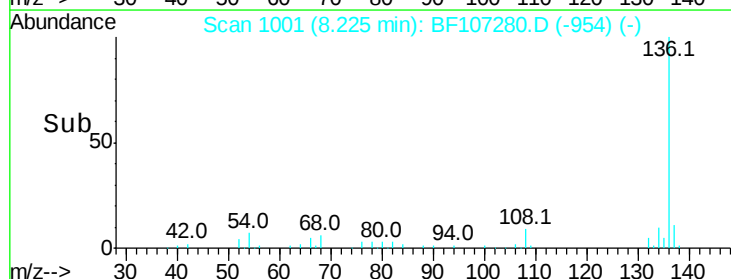
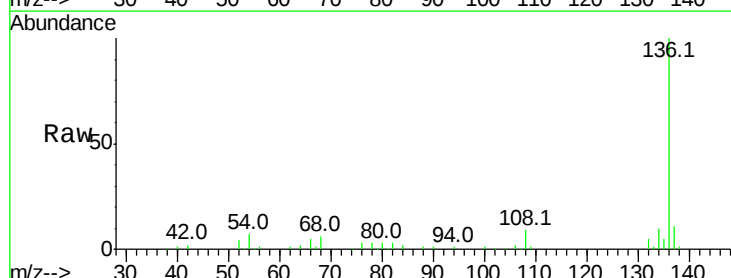
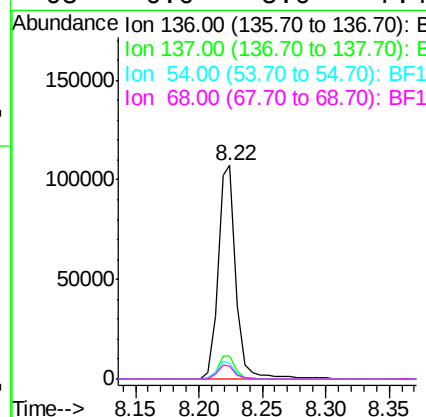
RT: 8.22 min Scan# 1001

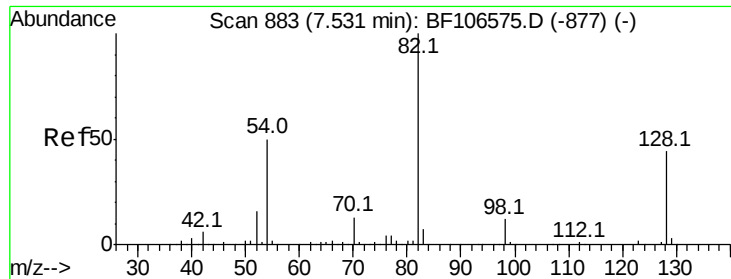
Delta R.T. -0.02 min

Lab File: BF107280.D

Acq: 10 Jul 2018 18:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		106903		
137	11.0	8.9	13.3		
54	7.5	6.6	9.8		
68	6.0	5.0	7.4		





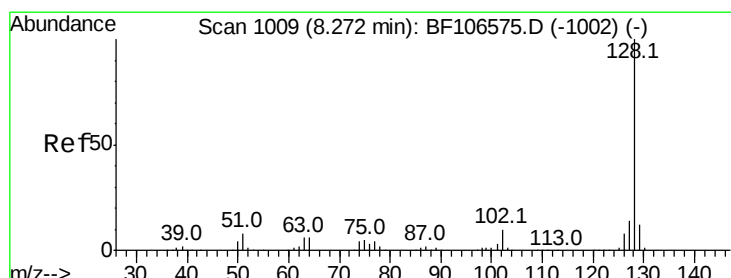
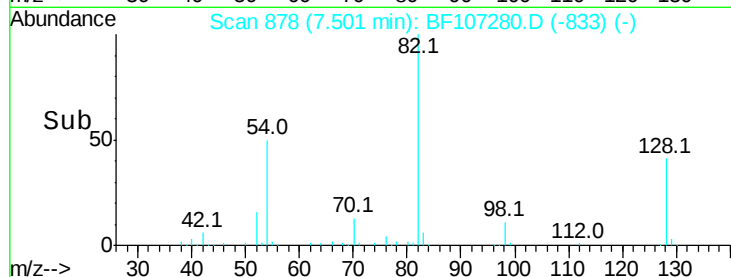
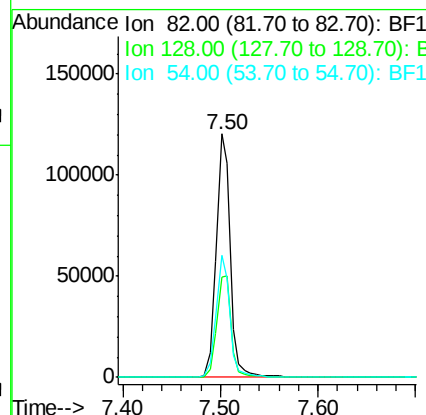
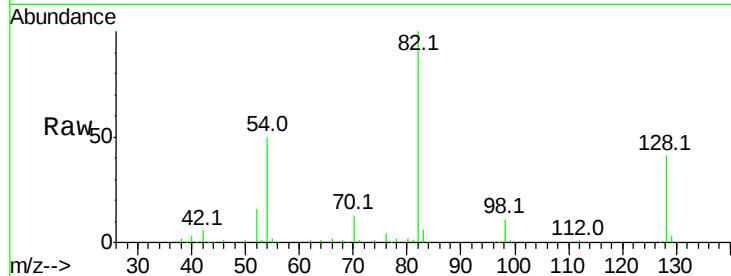
#23
 Nitrobenzene-d5
 Concen: 62.546 ng
 RT: 7.50 min Scan# 878
 Delta R.T. -0.04 min
 Lab File: BF107280.D
 Acq: 10 Jul 2018 18:35

Instrument :
 BNA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.3	36.1	54.1
54	50.0	41.4	62.2

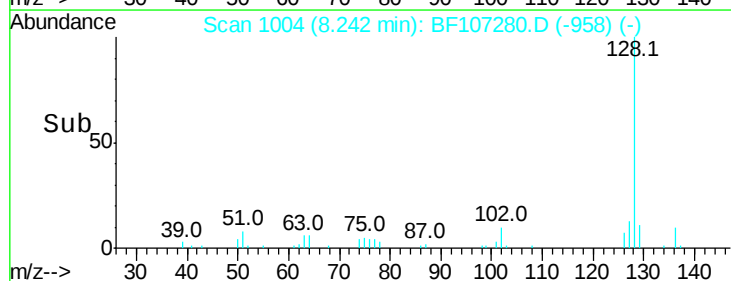
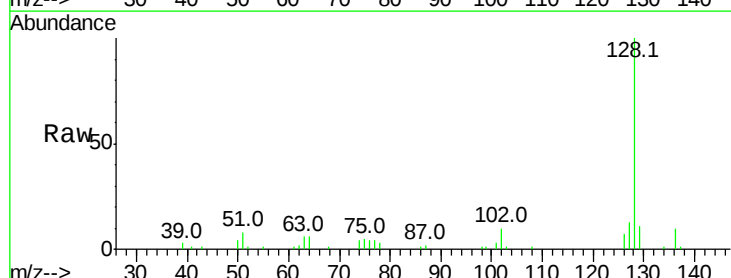
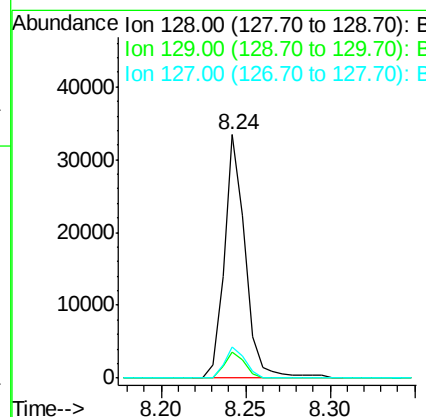
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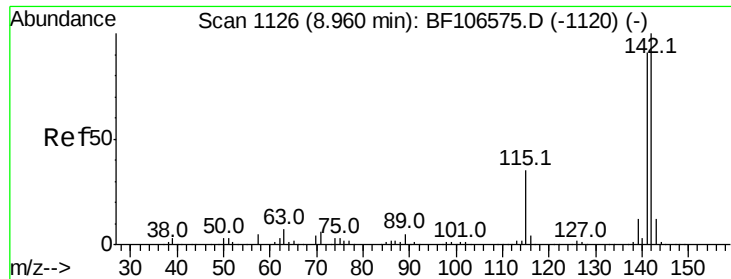
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#31
 Naphthalene
 Concen: 5.782 ng
 RT: 8.24 min Scan# 1004
 Delta R.T. -0.03 min
 Lab File: BF107280.D
 Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.0	10.9	16.3





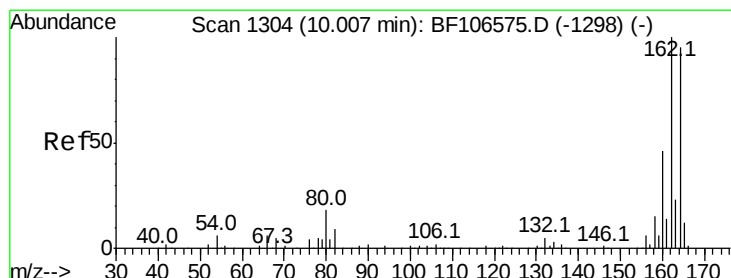
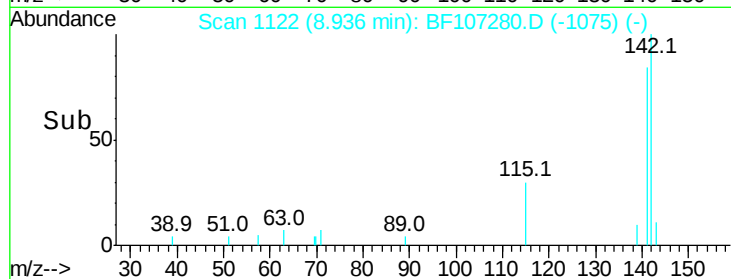
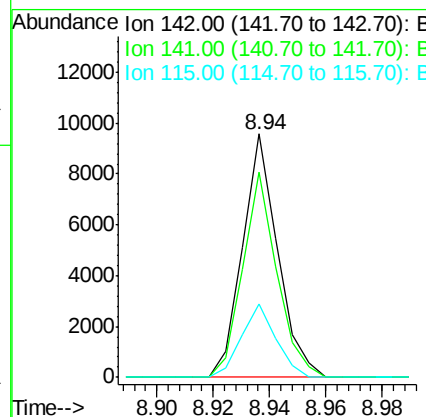
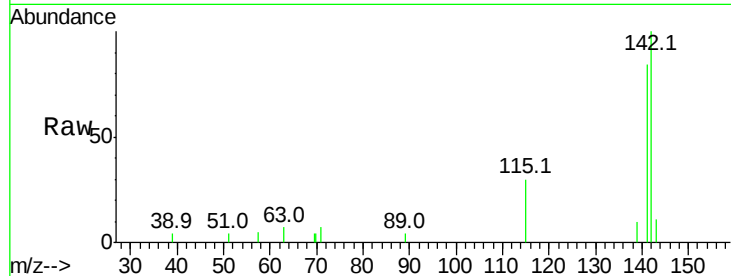
#37
2-Methylnaphthalene
Concen: 2.494 ng
RT: 8.94 min Scan# 1122
Delta R.T. -0.02 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.1	70.8	106.2
115	30.0	26.1	39.1

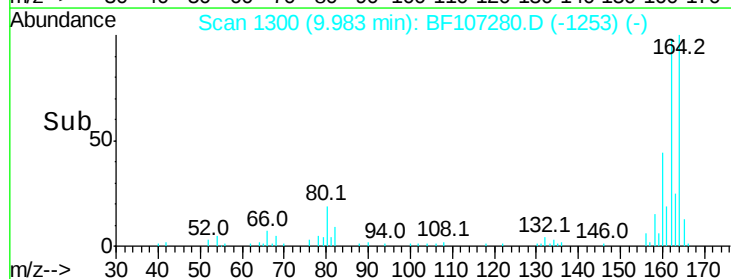
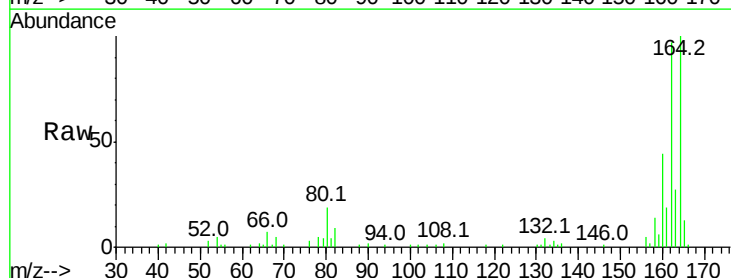
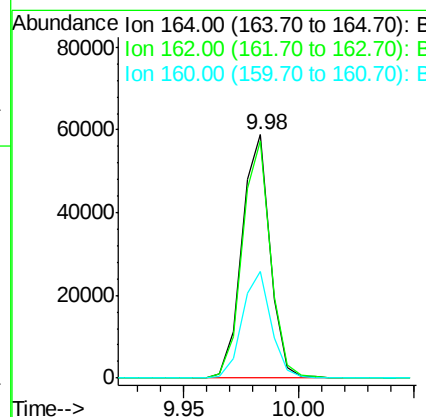
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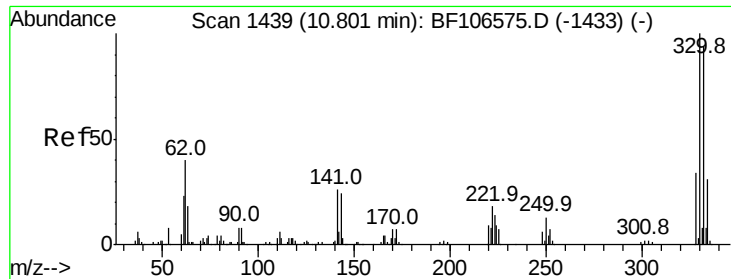
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.3	86.1	129.1
160	43.8	38.3	57.5





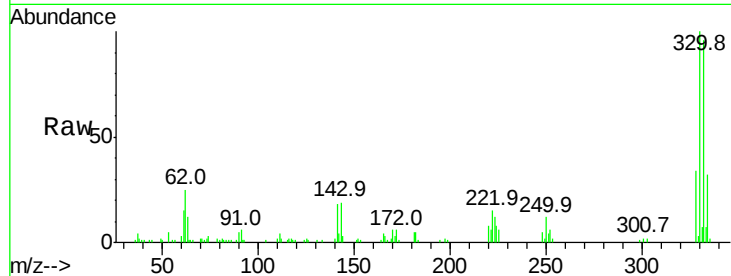
#41
 2,4,6-Tribromophenol
 Concen: 93.464 ng
 RT: 10.78 min Scan# 1436
 Delta R.T. -0.02 min
 Lab File: BF107280.D
 Acq: 10 Jul 2018 18:35

Instrument :
 BNA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230RE

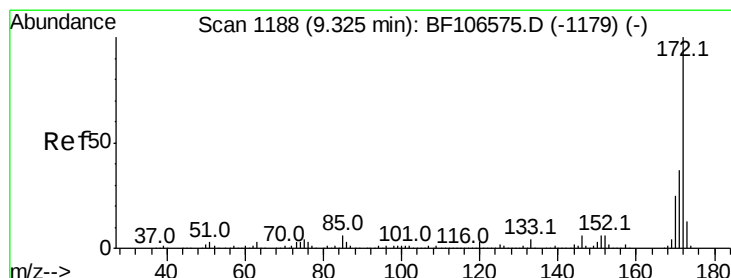
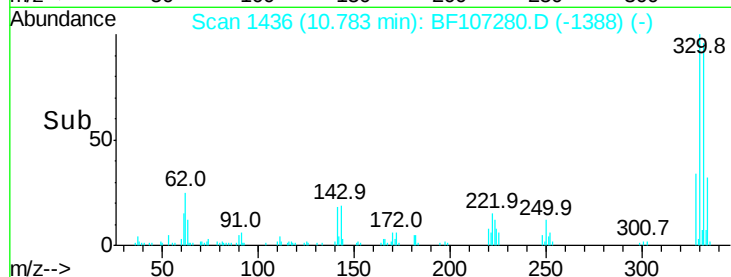
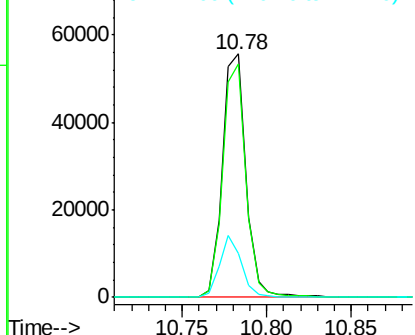
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.9	77.0	115.6	
141	23.6	29.9	44.9	

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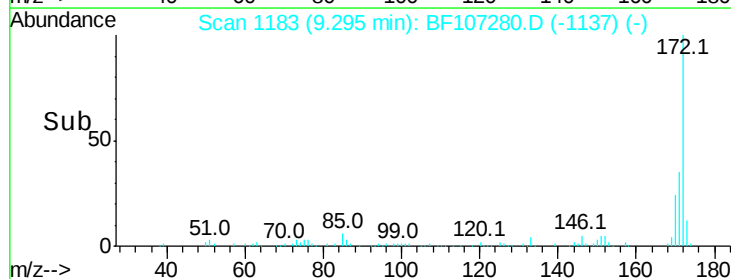
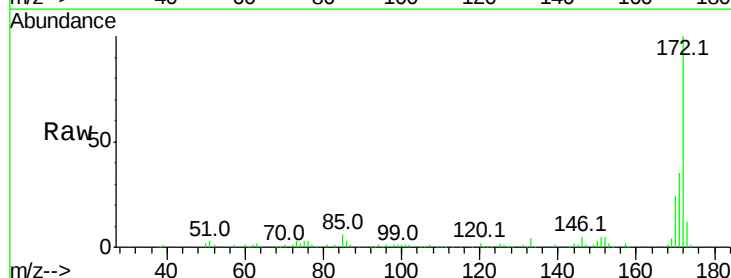
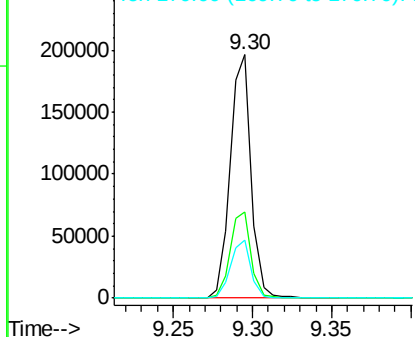
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

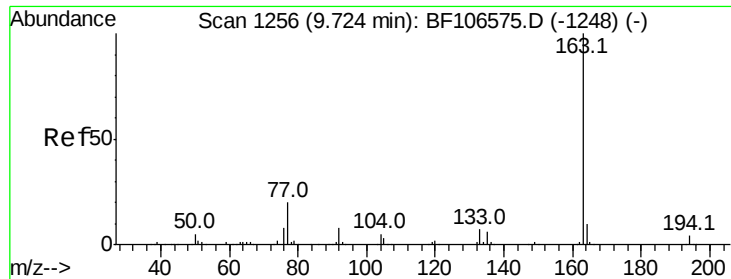


#44
 2-Fluorobiphenyl
 Concen: 55.428 ng
 RT: 9.30 min Scan# 1183
 Delta R.T. -0.03 min
 Lab File: BF107280.D
 Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.4	29.7	44.5	
170	23.8	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





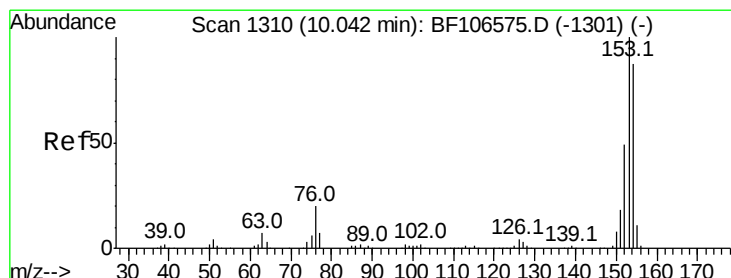
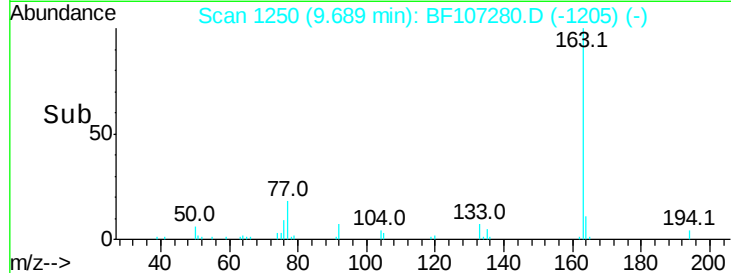
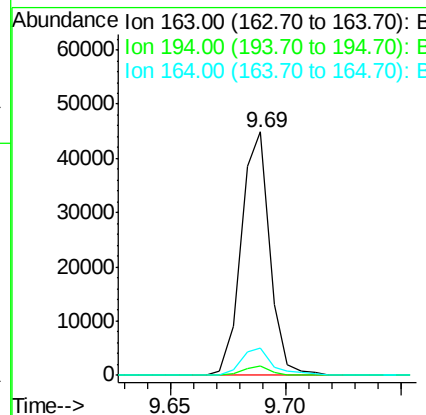
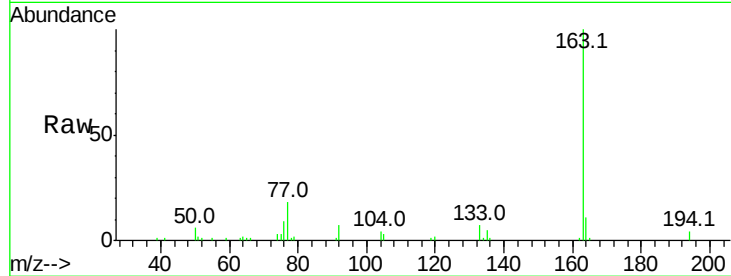
#49
Dimethylphthalate
Concen: 10.303 ng
RT: 9.69 min Scan# 1250
Delta R.T. -0.04 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
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Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.9	2.7	4.1	
164	11.3	8.2	12.2	

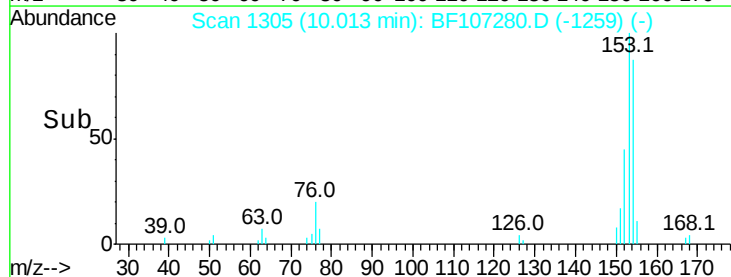
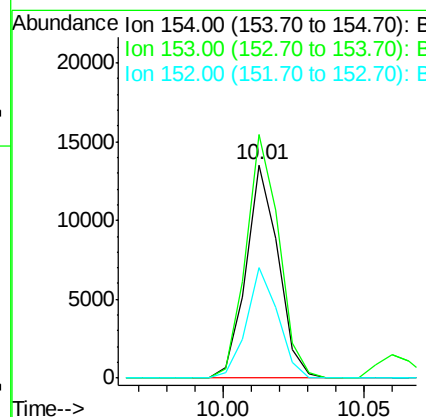
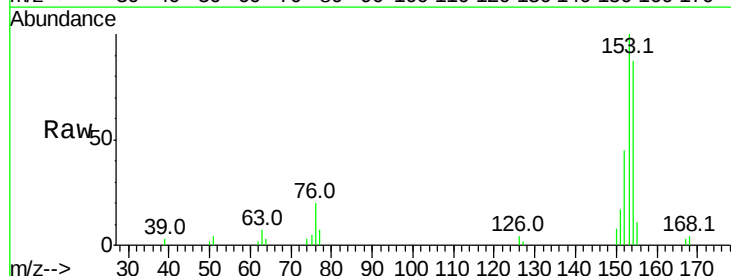
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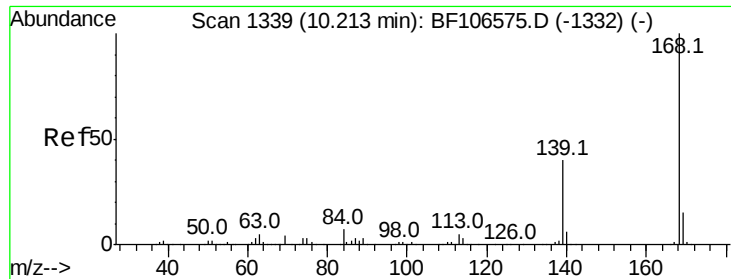
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#51
Acenaphthene
Concen: 3.426 ng
RT: 10.01 min Scan# 1305
Delta R.T. -0.03 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	114.3	91.2	136.8	
152	51.9	43.8	65.8	





#54

Dibenzenofuran

Concen: 4.220 ng

RT: 10.19 min Scan# 1335

Delta R.T. -0.02 min

Lab File: BF107280.D

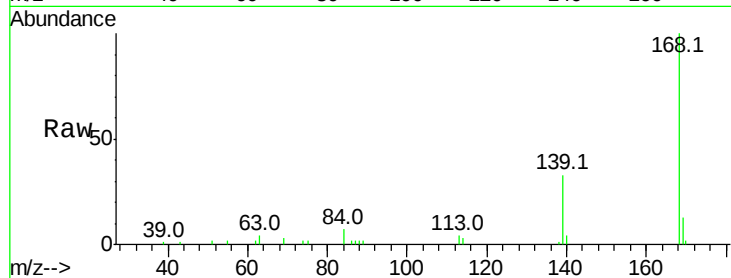
Acq: 10 Jul 2018 18:35

Instrument :

BNA_F

ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE



Tot Ion:168 Resp: 18043

Ion Ratio Lower Upper

168 100

139 32.7 30.1 45.1

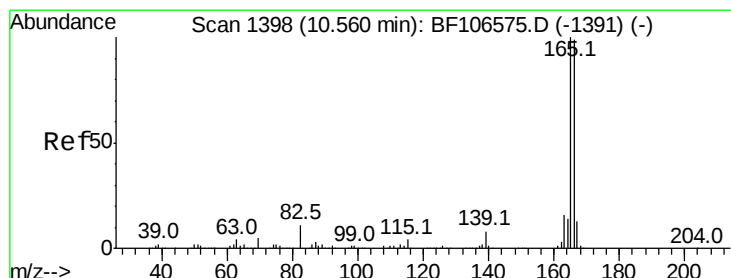
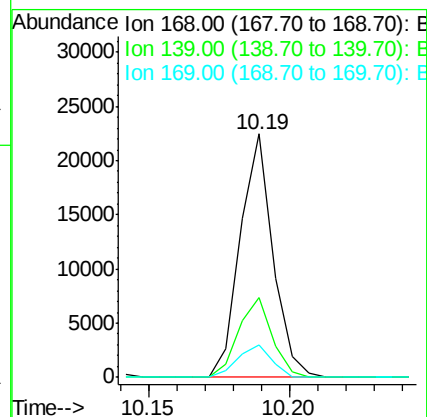
169 13.2 10.9 16.3

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#57

Fluorene

Concen: 7.082 ng

RT: 10.53 min Scan# 1393

Delta R.T. -0.03 min

Lab File: BF107280.D

Acq: 10 Jul 2018 18:35

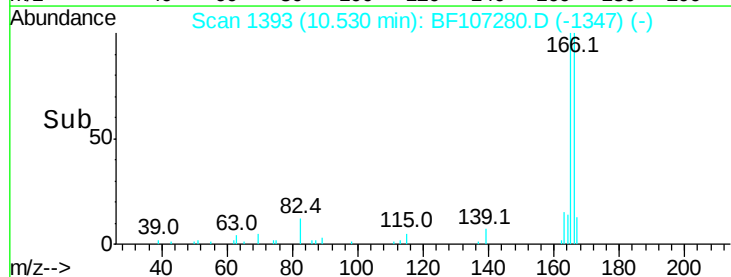
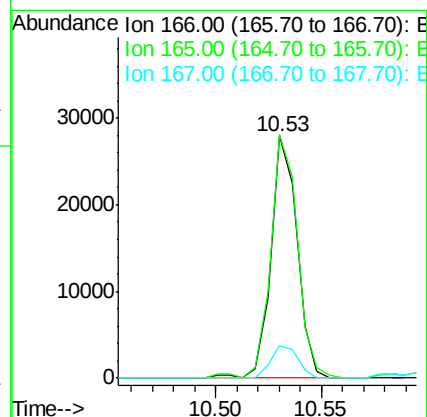
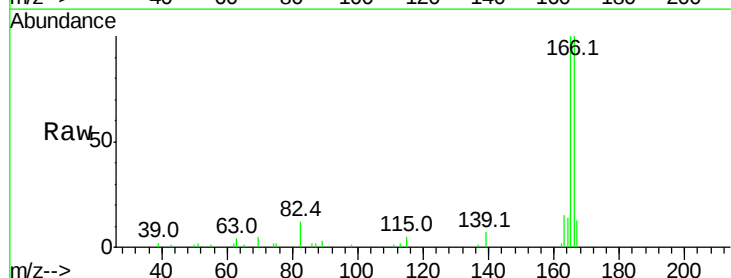
Tgt Ion:166 Resp: 24025

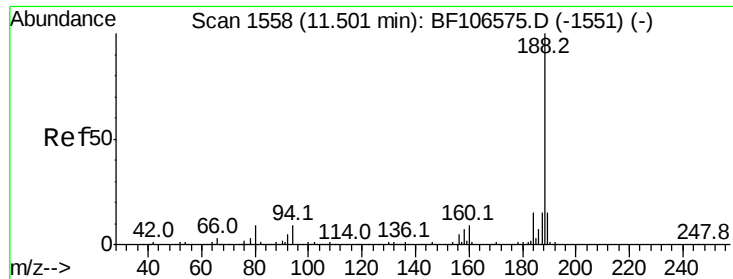
Ion Ratio Lower Upper

166 100

165 100.5 79.8 119.8

167 13.4 10.6 16.0





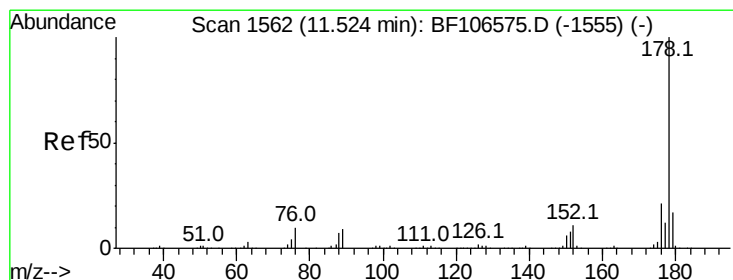
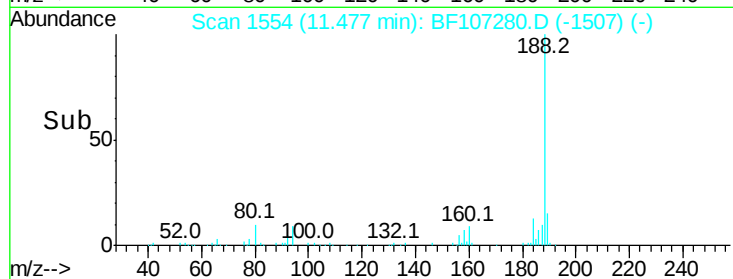
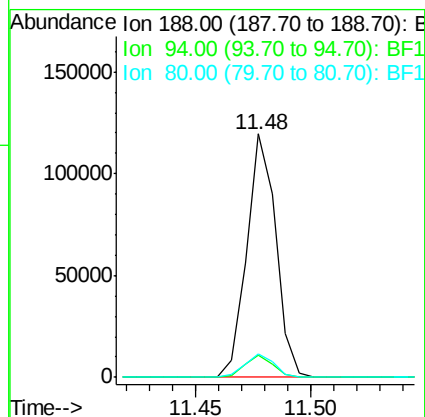
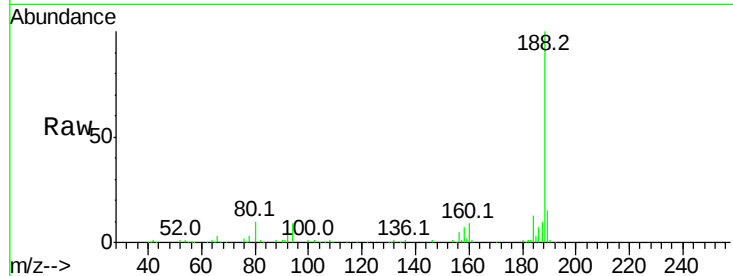
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.48 min Scan# 1554
Delta R.T. -0.02 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

Tot Ion:	188	Resp:	105461
Ion Ratio	Lower	Upper	
188	100		
94	9.0	8.5	12.7
80	9.7	9.2	13.8

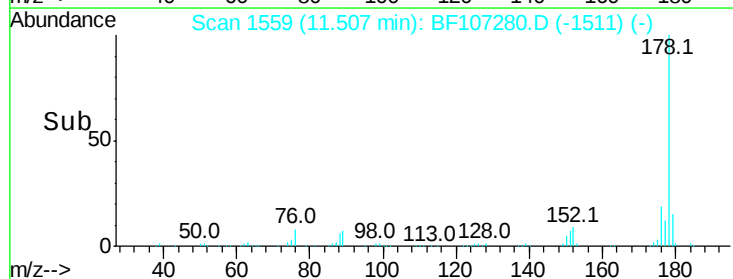
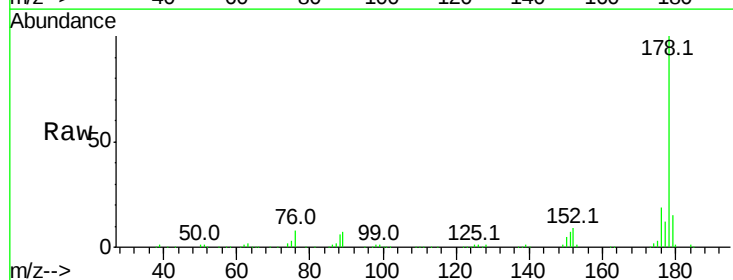
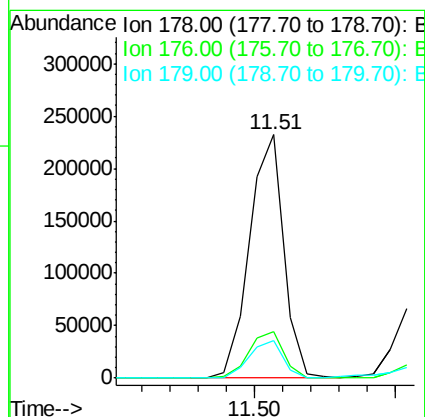
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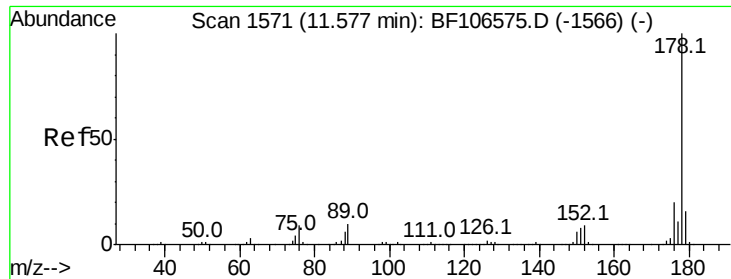
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#70
Phenanthrene
Concen: 38.385 ng
RT: 11.51 min Scan# 1559
Delta R.T. -0.02 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion:	178	Resp:	195247
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.8	23.8
179	15.2	13.0	19.6





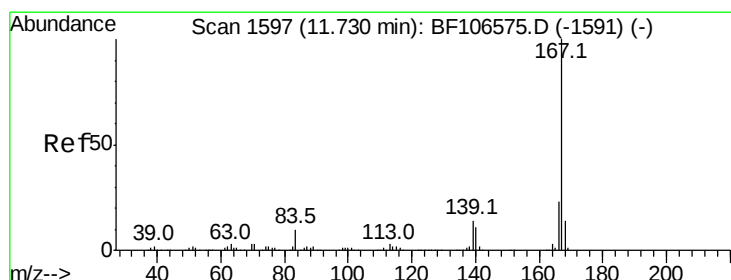
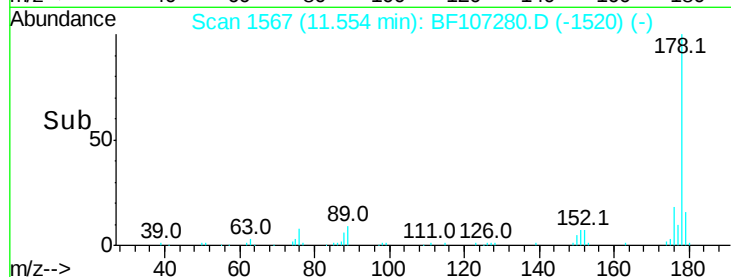
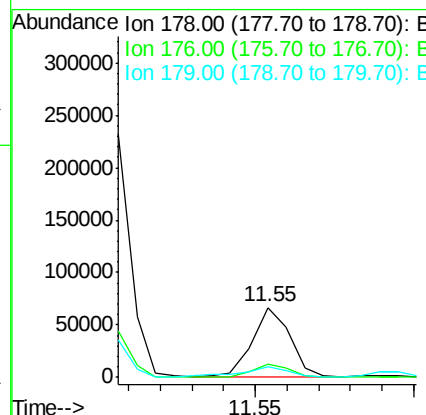
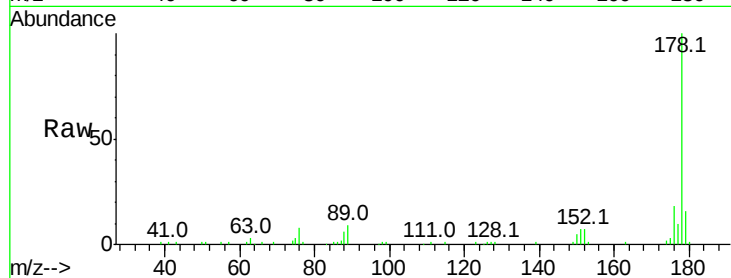
#71
 Anthracene
 Concen: 10.460 ng
 RT: 11.55 min Scan# 1567
 Delta R.T. -0.02 min
 Lab File: BF107280.D
 Acq: 10 Jul 2018 18:35

Instrument :
 BNA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	15.7	12.6	19.0

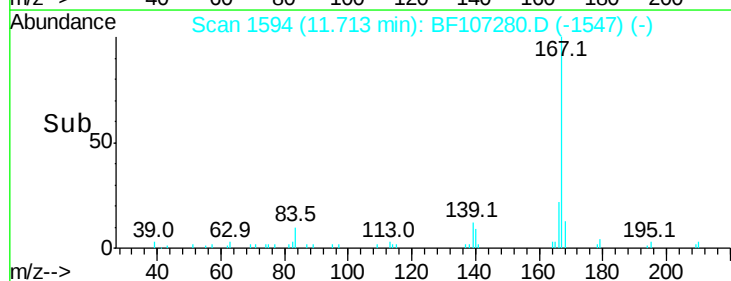
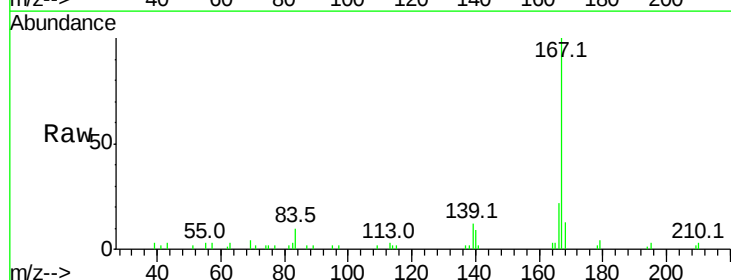
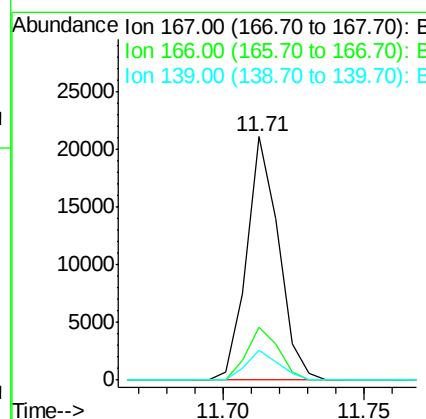
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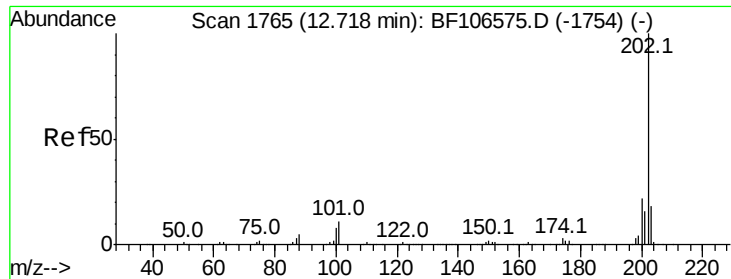
Sohil
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#72
 Carbazole
 Concen: 3.409 ng
 RT: 11.71 min Scan# 1594
 Delta R.T. -0.02 min
 Lab File: BF107280.D
 Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.6	26.4
139	12.4	10.9	16.3





#74

Fluoranthene

Concen: 41.718 ng

RT: 12.70 min Scan# 1762

Delta R.T. -0.02 min

Lab File: BF107280.D

Acq: 10 Jul 2018 18:35

Instrument :

BNA_F

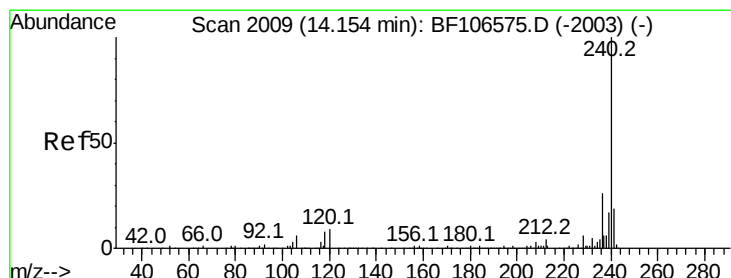
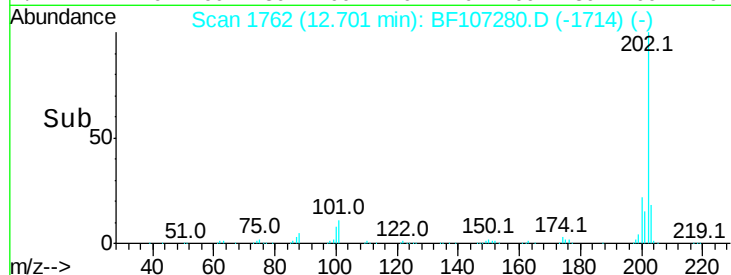
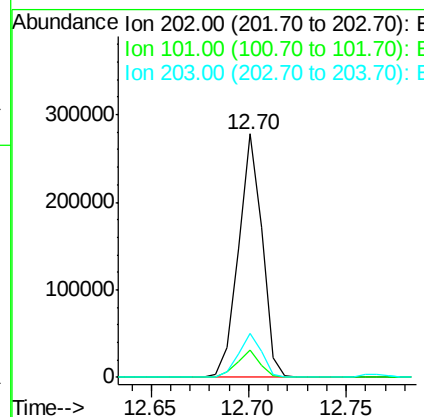
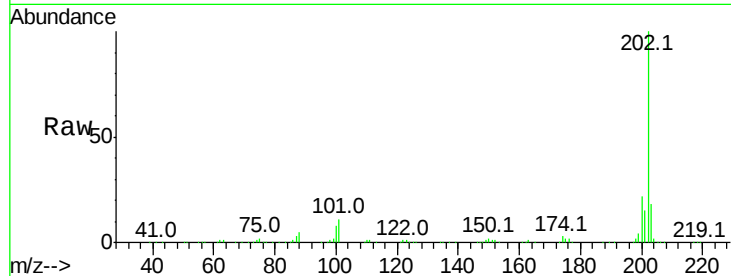
ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ratio	Resp	Lower	Upper
202	100	233890		
101	11.4	0.0	34.1	
203	18.0	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.000 ng

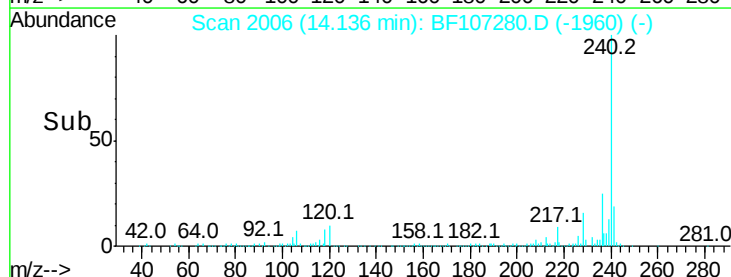
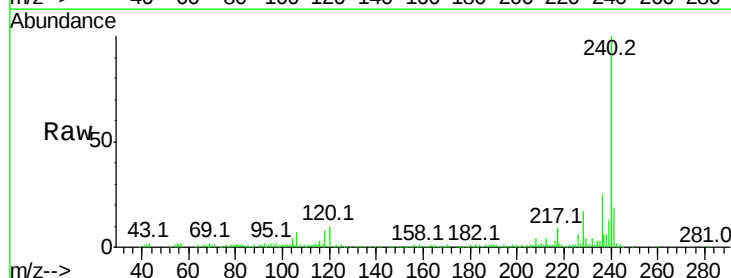
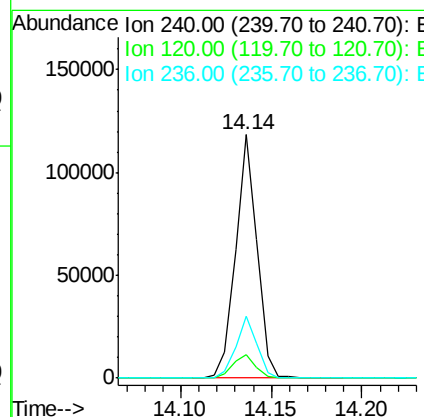
RT: 14.14 min Scan# 2006

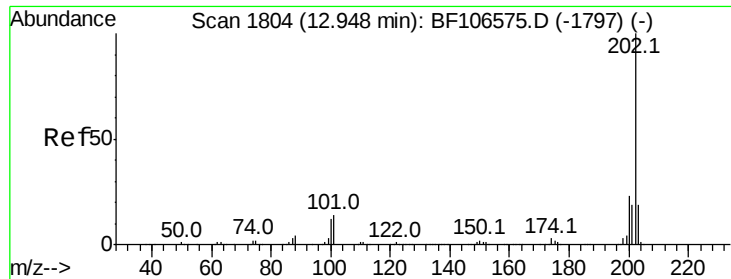
Delta R.T. -0.03 min

Lab File: BF107280.D

Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	97178		
120	9.6	9.5	14.3	
236	25.3	20.7	31.1	





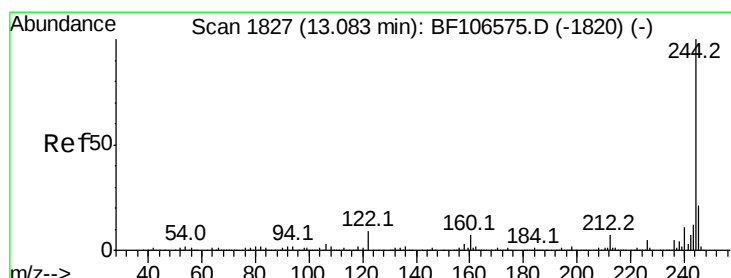
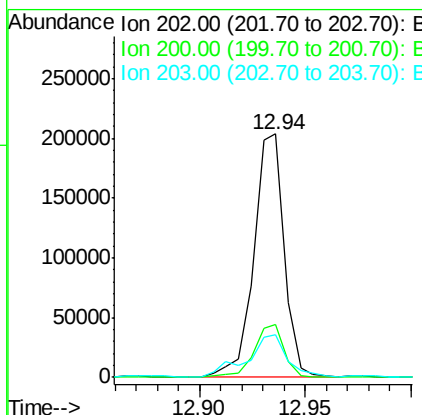
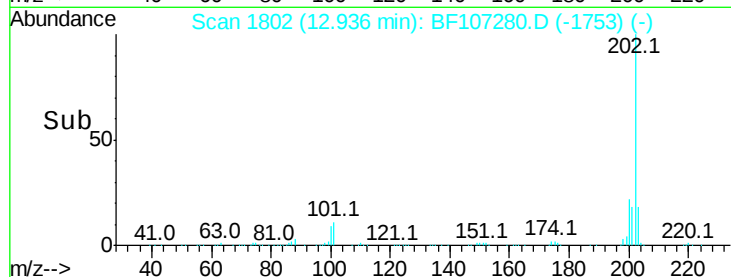
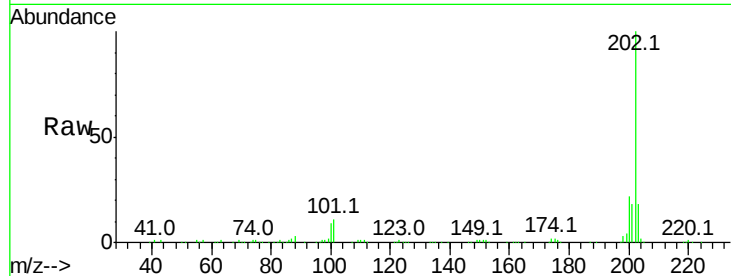
#77
Pvrene
Concen: 32.042 ng
RT: 12.94 min Scan# 1802
Delta R.T. -0.01 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	17.7	14.3	21.5

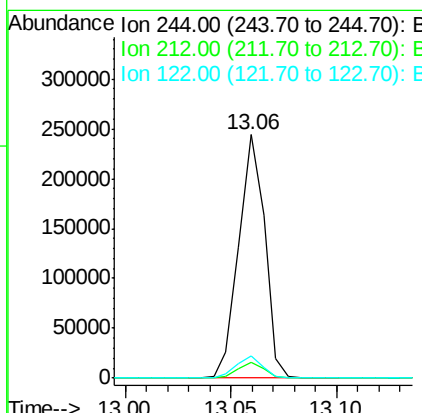
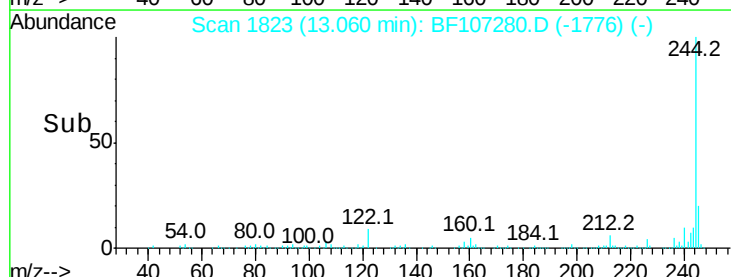
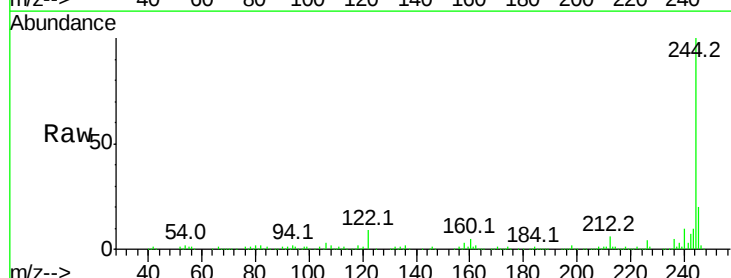
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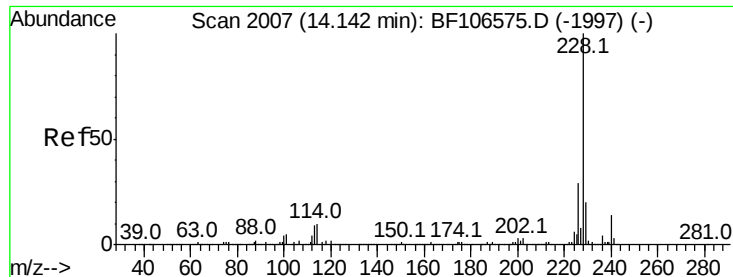
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#78
Terphenyl-d14
Concen: 51.859 ng
RT: 13.06 min Scan# 1823
Delta R.T. -0.02 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	9.0	11.0	16.4





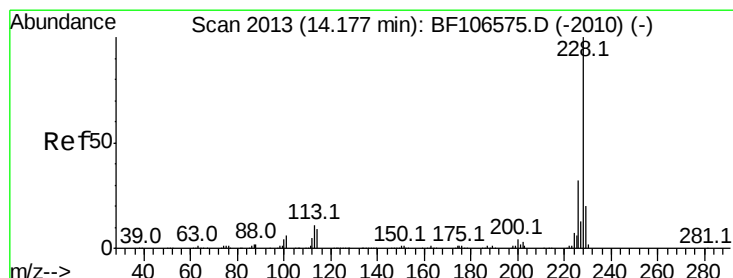
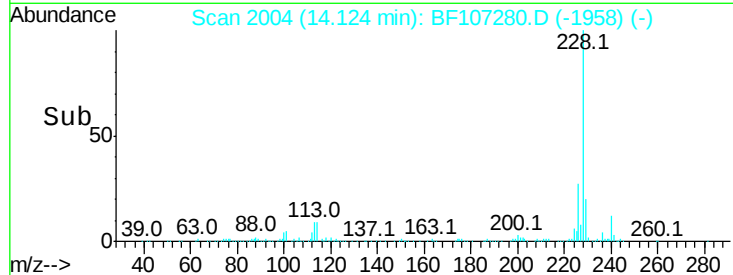
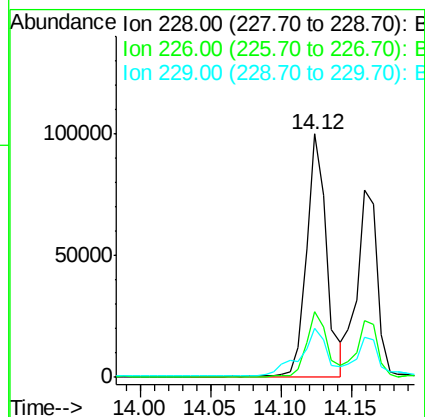
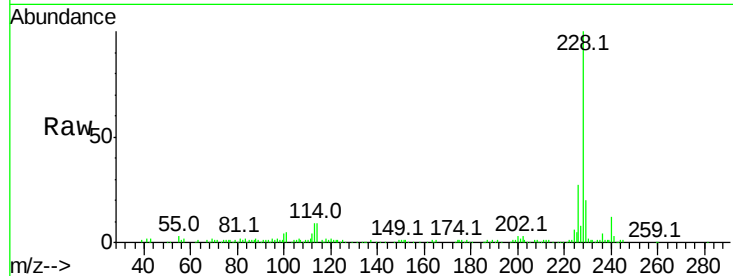
#80
Benzo(a)anthracene
Concen: 16.878 ng
RT: 14.12 min Scan# 2004
Delta R.T. -0.03 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

Tot Ion:228	Resp:	99961
Ion Ratio	Lower	Upper
228 100		
226 27.1	22.6	33.8
229 20.0	15.8	23.6

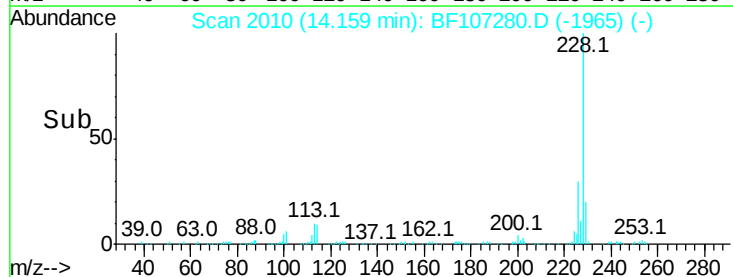
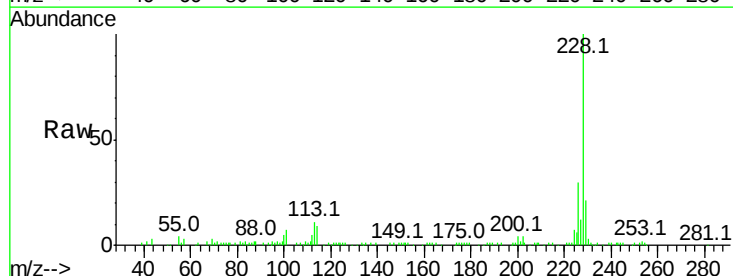
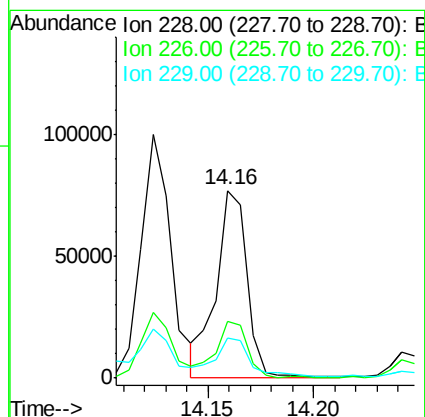
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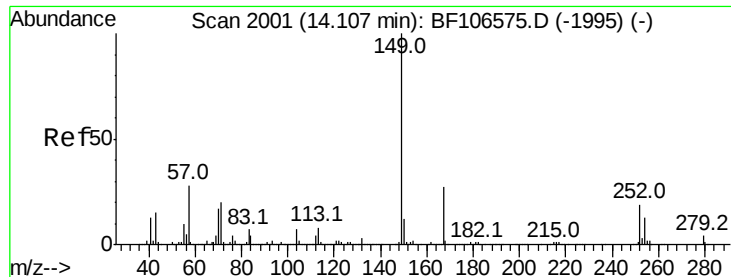
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#82
Chrysene
Concen: 14.336 ng
RT: 14.16 min Scan# 2010
Delta R.T. -0.04 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion:228	Resp:	78116
Ion Ratio	Lower	Upper
228 100		
226 30.1	25.0	37.6
229 21.5	16.2	24.4





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.066 ng

RT: 14.08 min Scan# 1996

Delta R.T. -0.04 min

Lab File: BF107280.D

Acq: 10 Jul 2018 18:35

Instrument :

BNA_F

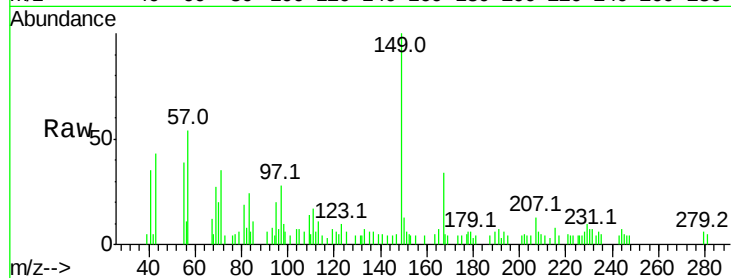
ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

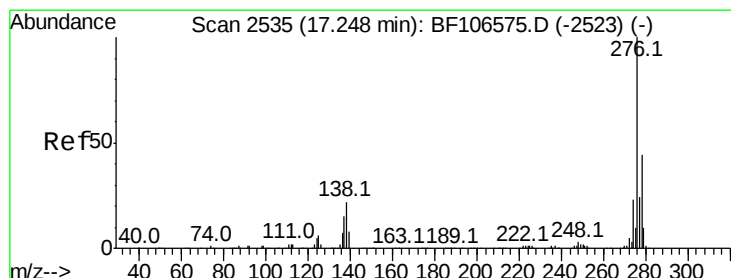
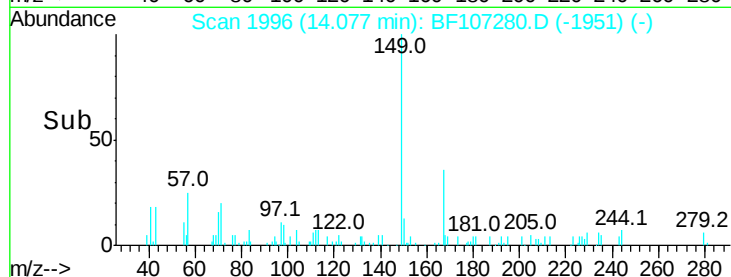
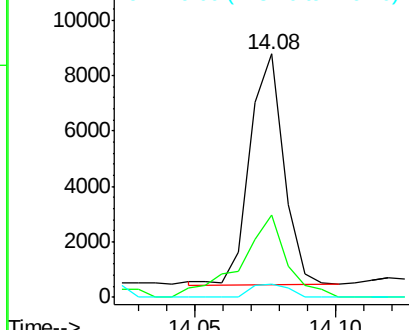
Tot Ion:	149	Resp:	6959
Ion Ratio	Lower	Upper	
149	100		
167	34.1	21.3	31.9#
279	5.6	3.0	4.4#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.499 ng

RT: 17.26 min Scan# 2537

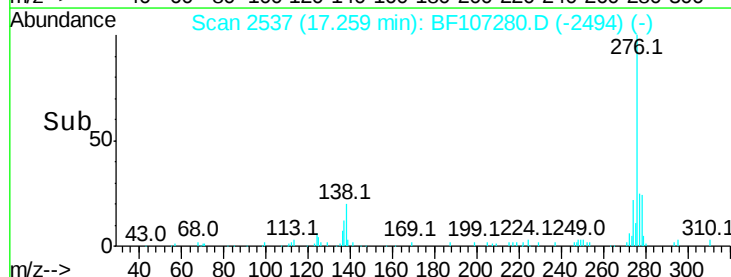
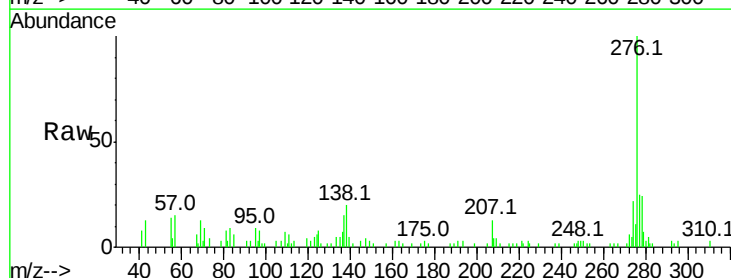
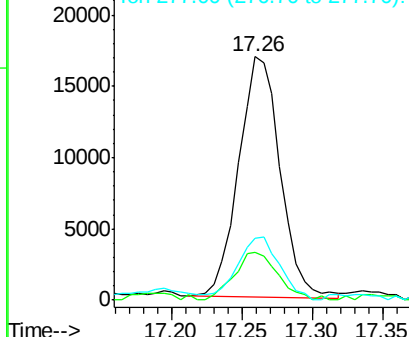
Delta R.T. -0.05 min

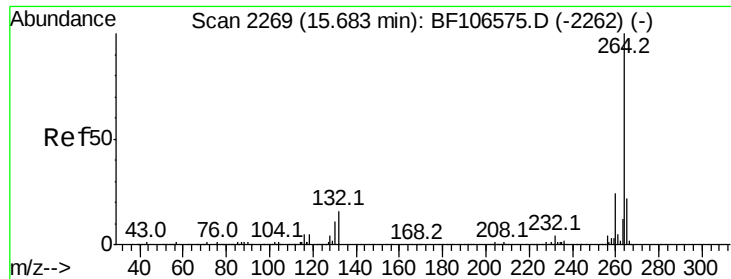
Lab File: BF107280.D

Acq: 10 Jul 2018 18:35

Tgt Ion:	276	Resp:	34676
Ion Ratio	Lower	Upper	
276	100		
138	21.0	25.0	37.6#
277	27.0	20.1	30.1

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





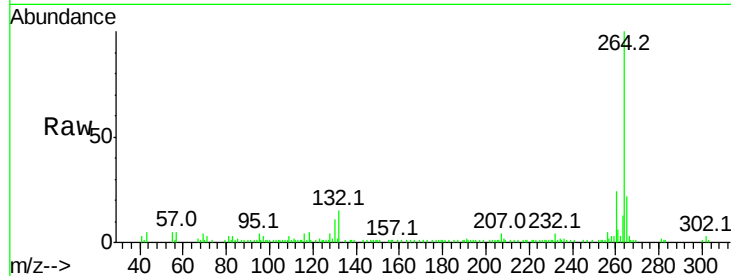
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2268
Delta R.T. -0.04 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

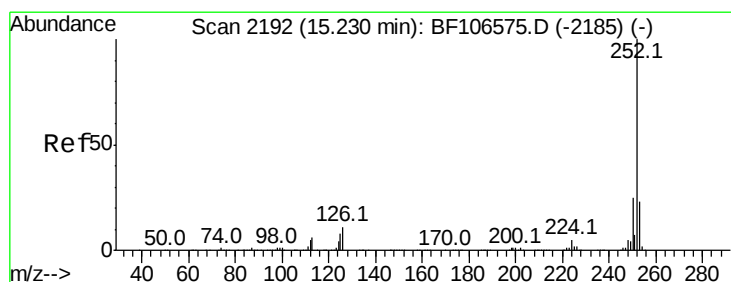
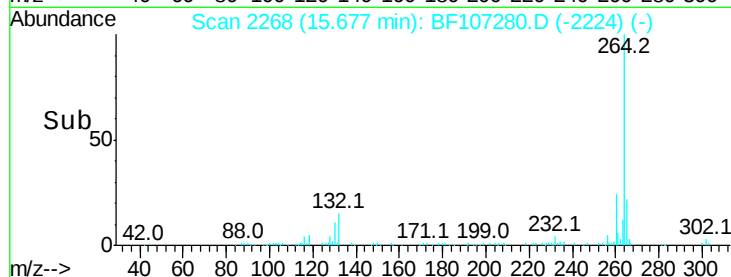
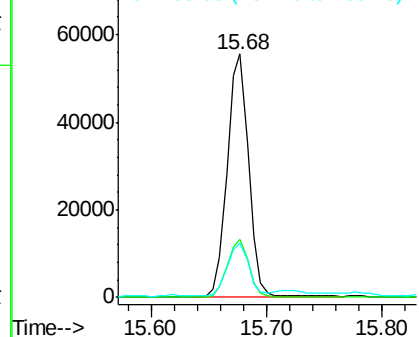
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.1	17.5	26.3

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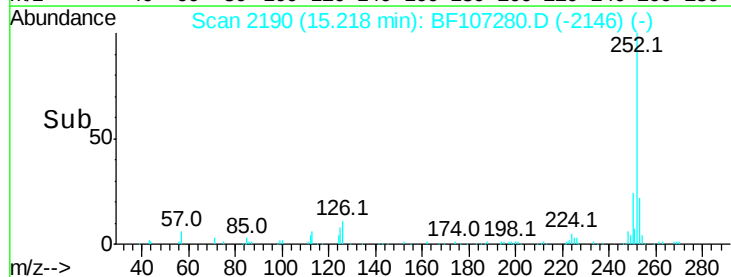
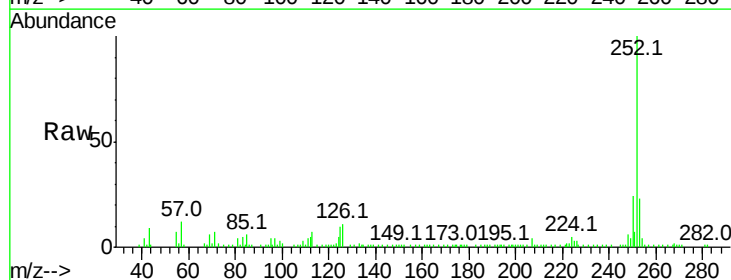
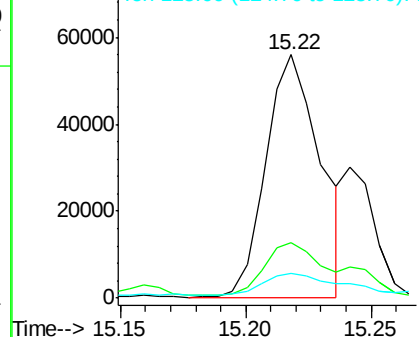
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

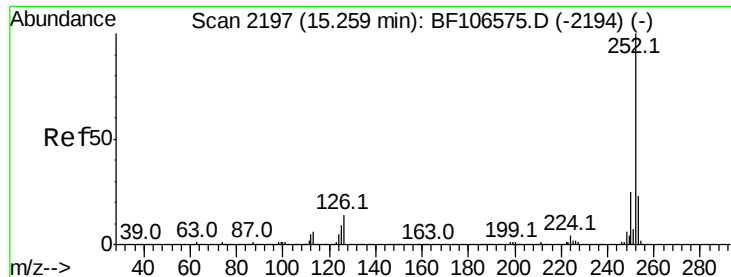


#87
Benzo(b)fluoranthene
Concen: 18.989 ng m
RT: 15.22 min Scan# 2190
Delta R.T. -0.04 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	10.0	9.0	13.6

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





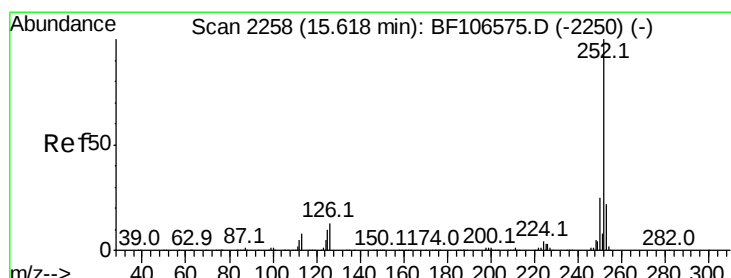
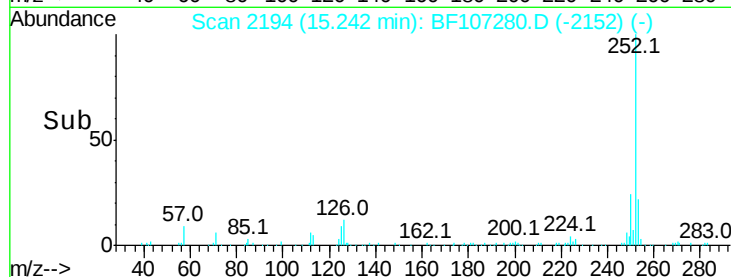
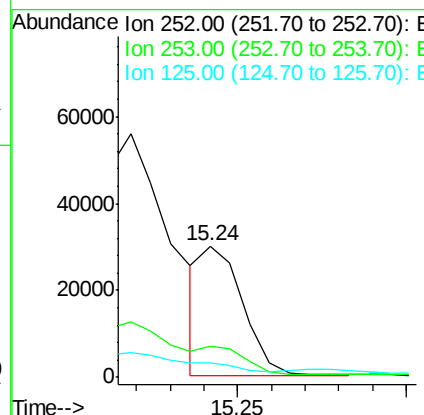
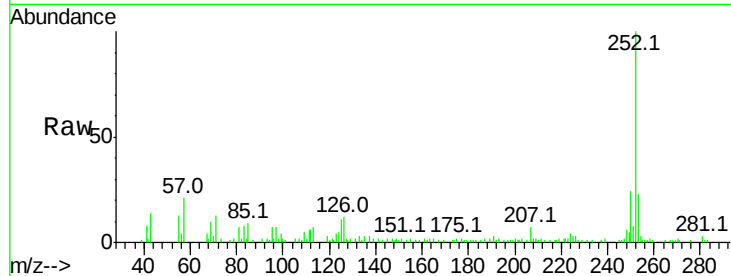
#88
Benzo(k)fluoranthene
Concen: 5.969 ng/mL
RT: 15.24 min Scan# 2194
Delta R.T. -0.05 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	11.3	10.2	15.2

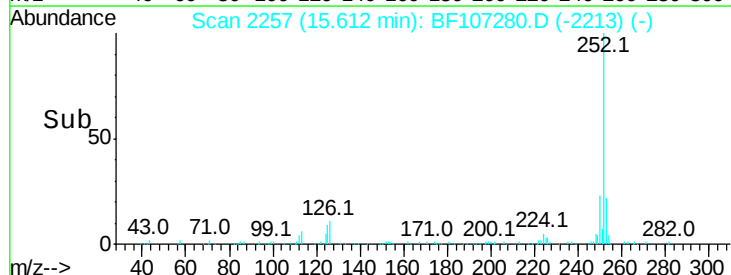
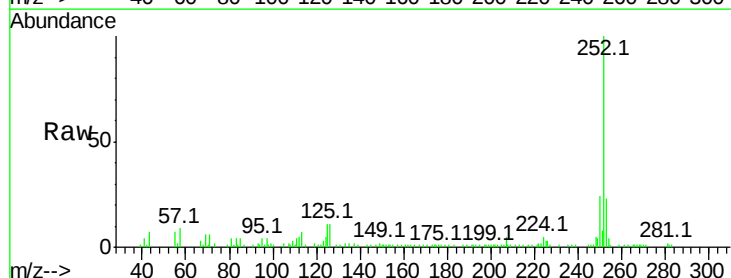
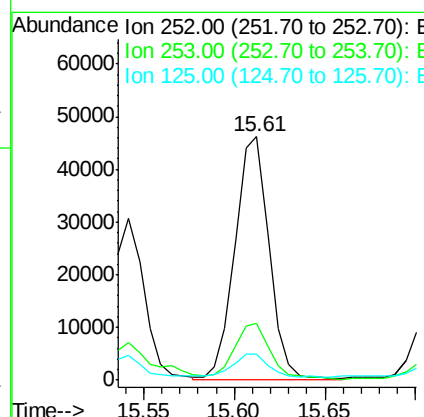
Manual Integrations
APPROVED

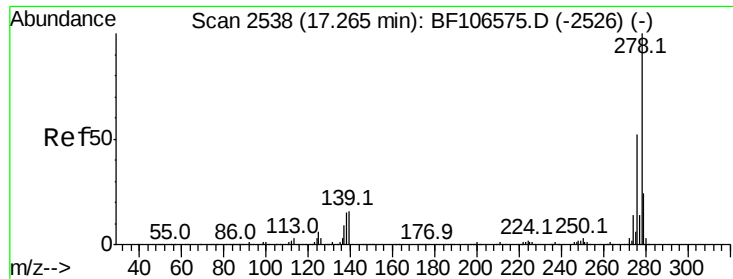
Sohil
7/11/2018 11:22:55 AM



#89
Benzo(a)pyrene
Concen: 15.393 ng/mL
RT: 15.61 min Scan# 2257
Delta R.T. -0.04 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	10.9	9.8	14.6





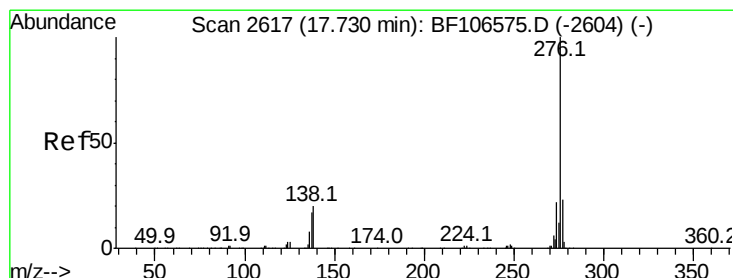
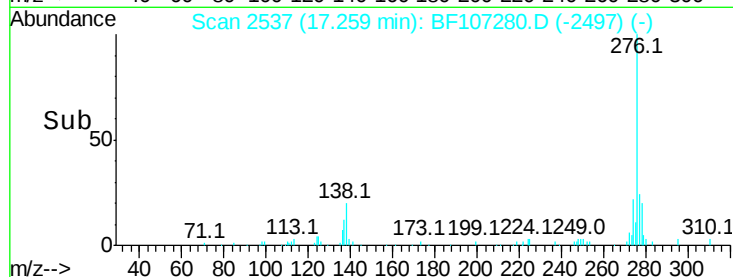
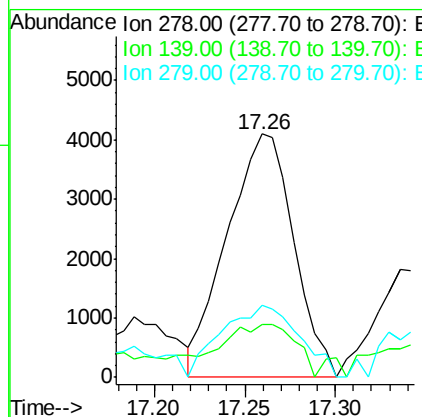
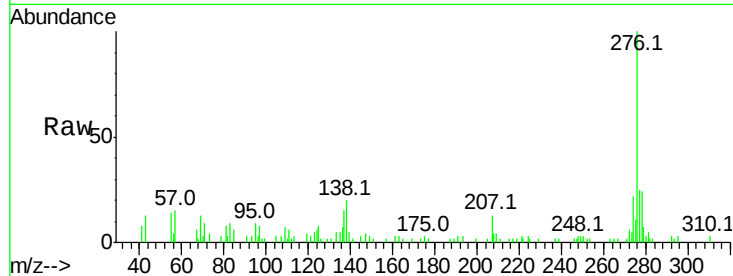
#90
Dibenzo(a,h)anthracene
Concen: 3.117 ng m
RT: 17.26 min Scan# 2537
Delta R.T. -0.06 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Instrument :
BNA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.7	15.9	23.9
279	29.4	19.0	28.4

Manual Integrations
APPROVED

Sohil
7/11/2018 11:22:55 AM



#91
Benzo(g,h,i)perylene
Concen: 10.230 ng
RT: 17.75 min Scan# 2620
Delta R.T. -0.04 min
Lab File: BF107280.D
Acq: 10 Jul 2018 18:35

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.8	17.9	26.9
138	20.3	21.8	32.8

