

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121018\
 Data File : BF111267.D
 Acq On : 11 Dec 2018 2:43
 Operator : JU/SJ
 Sample : J6214-09
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Manual Integrations
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Sohil
 12/11/2018 2:23:51 PM

Quant Time: Dec 11 06:42:06 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 10 01:15:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	381938	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	1256074	20.00	ng	0.00
39) Acenaphthene-d10	9.84	164	519455	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	711938	20.00	ng	0.00
76) Chrysene-d12	13.96	240	570069	20.00	ng	0.00
87) Perylene-d12	15.40	264	402580	20.00	ng	0.02

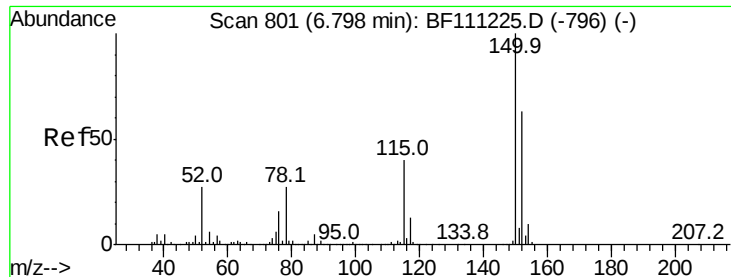
System Monitoring Compounds

5) 2-Fluorophenol	5.42	112	2044312	84.52	ng	0.01
7) Phenol-d6	6.44	99	2596266	86.37	ng	0.00
23) Nitrobenzene-d5	7.36	82	1573083	70.24	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	375409	81.59	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	1824760	54.51	ng	0.00
79) Terphenyl-d14	12.91	244	1729560	72.77	ng	0.00

Target Compounds

						Qvalue
10) Phenol	6.45	94	194027	5.520	ng	98
31) Naphthalene	8.10	128	190540	3.476	ng	94
50) Dimethylphthalate	9.55	163	394682	10.297	ng	98
52) Acenaphthene	9.87	154	161580	5.218	ng	95
55) Dibenzofuran	10.04	168	117654	2.793	ng	97
58) Fluorene	10.39	166	176398	5.411	ng	97
71) Phenanthrene	11.35	178	1296989	36.118	ng	95
72) Anthracene	11.40	178	404271	10.761	ng	95
73) Carbazole	11.55	167	167233	4.257	ng	# 94
75) Fluoranthene	12.54	202	2152525	65.620	ng	99
78) Pyrene	12.77	202	1901953	46.688	ng	98
81) Benzo(a)anthracene	13.95	228	896725	28.196	ng	97
83) Chrysene	13.99	228	787199	24.009	ng	97
86) Indeno(1,2,3-cd)pyrene	16.83	276	289620	10.943	ng	91
88) Benzo(b)fluoranthene	14.99	252	814549m	36.587	ng	
89) Benzo(k)fluoranthene	15.02	252	230185m	10.997	ng	
90) Benzo(a)pyrene	15.34	252	515459	25.142	ng	97
91) Dibenzo(a,h)anthracene	16.83	278	74537	4.629	ng	# 80
92) Benzo(a,h,i)perylene	17.26	276	243715	15.119	ng	99

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



#1

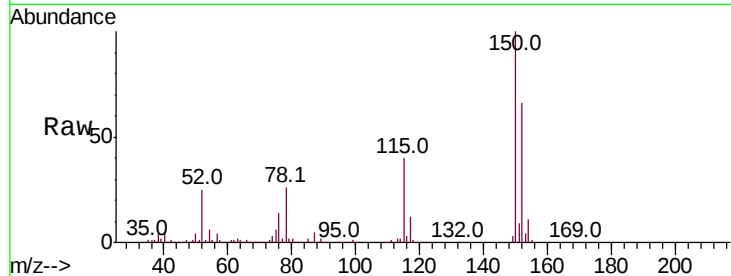
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. 0.01 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.9	126.6	189.8
115	60.4	50.7	76.1

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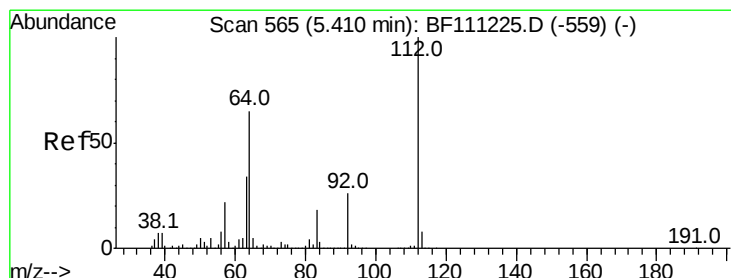
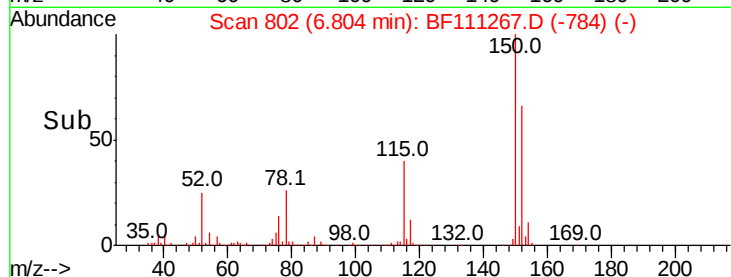
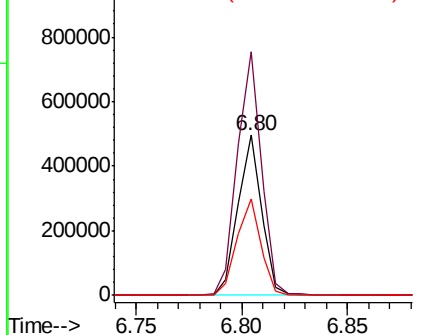


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

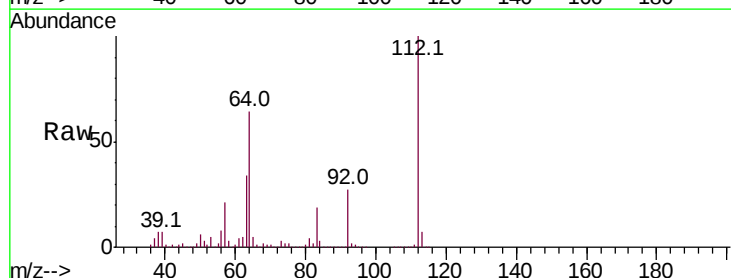
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 84.519 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.01 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.7	51.8	77.6
63	33.7	26.8	40.2

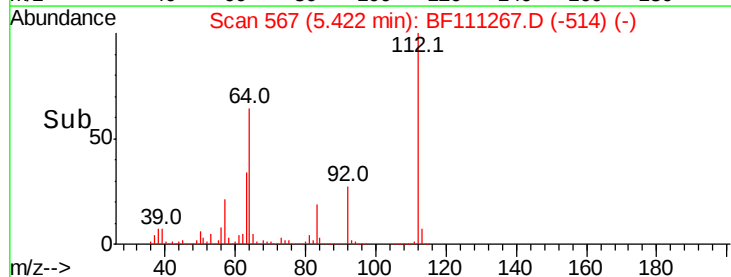
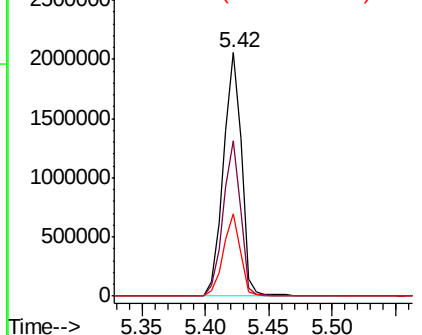


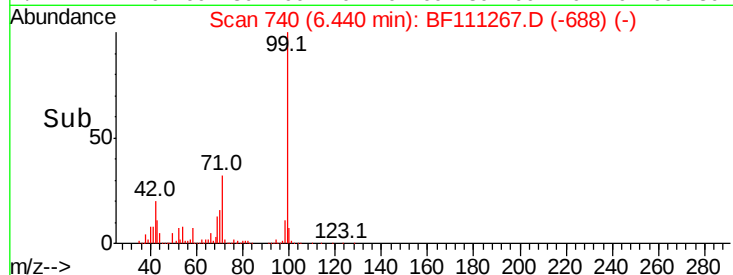
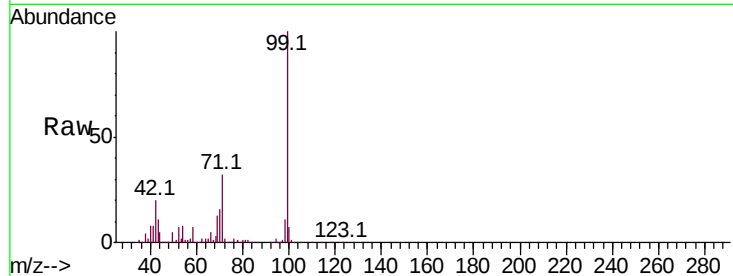
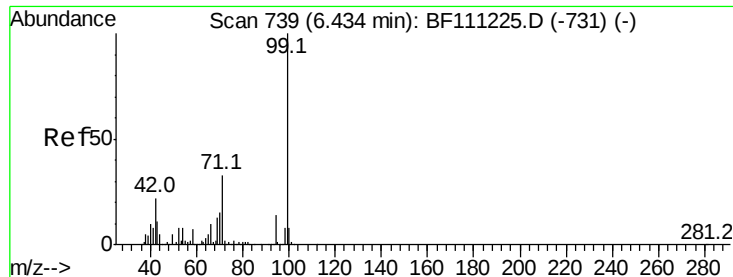
Abundance

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: 86.372 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Tot Ion:	99	Resp:	2596266
Ion	Ratio	Lower	Upper
99	100		
42	20.1	17.4	26.0
71	31.9	26.1	39.1

Instrument :

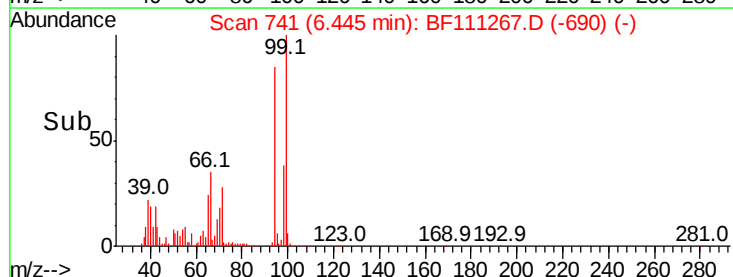
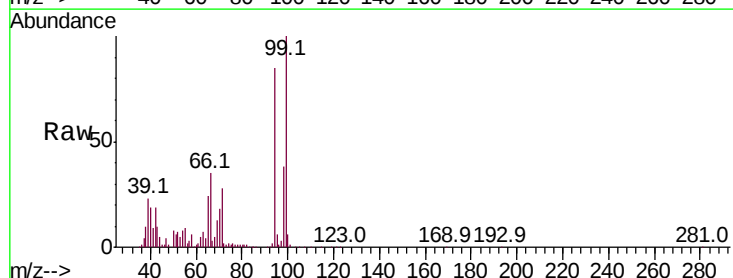
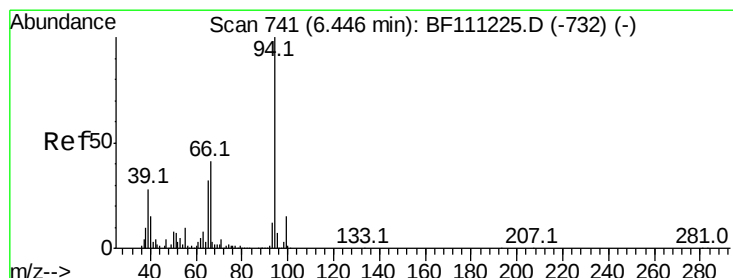
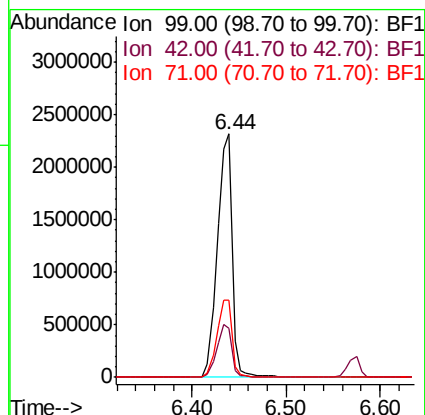
BNA_F

ClientSampleId :

SB-4(0-2)

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#10

Phenol

Concen: 5.520 ng

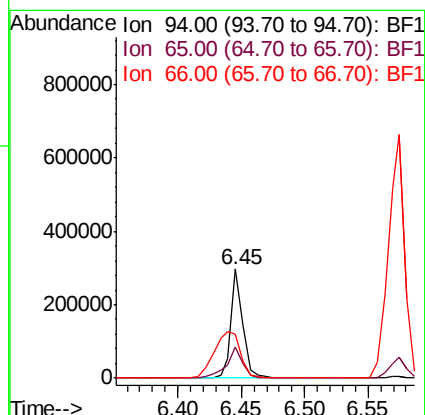
RT: 6.45 min Scan# 741

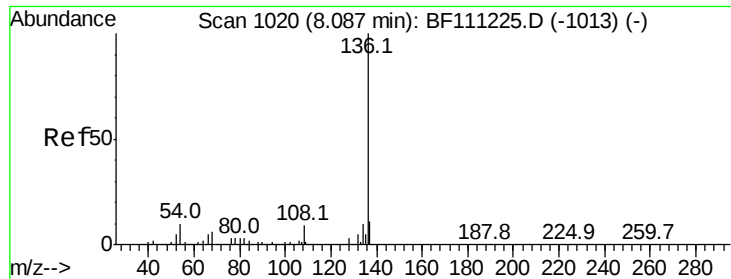
Delta R.T. -0.00 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Tgt Ion:	94	Resp:	194027
Ion	Ratio	Lower	Upper
94	100		
65	28.9	11.7	51.7
66	40.9	21.0	61.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Instrument :

BNA_F

ClientSampleId :

SB-4(0-2)

Tot Ion:136 Resp: 1256074

Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 9.0 7.7 11.5

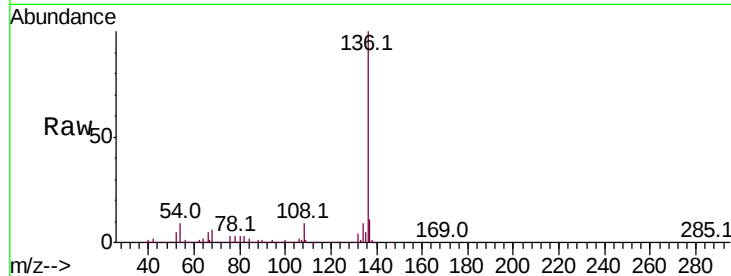
68 5.5 4.9 7.3

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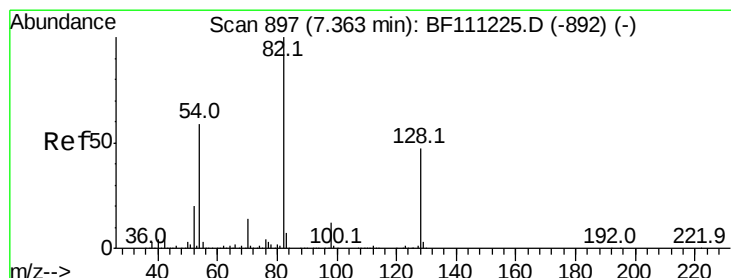
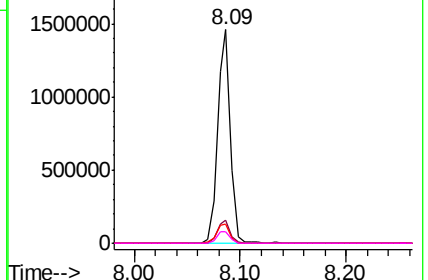
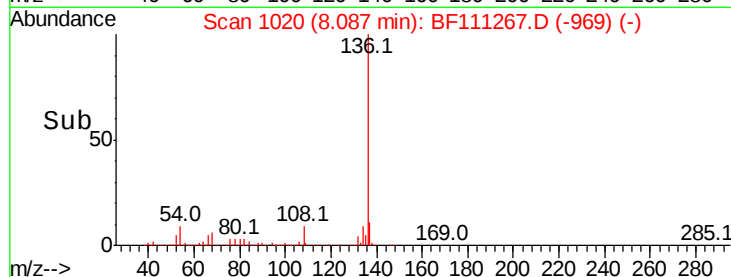


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 70.244 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.00 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

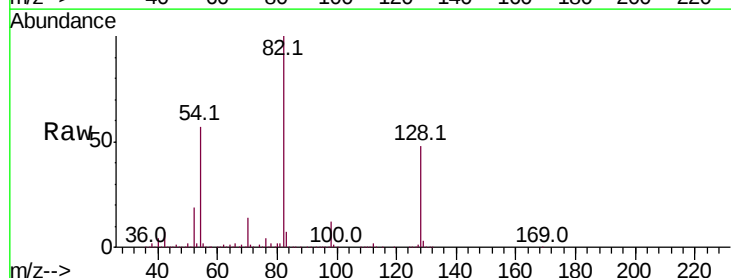
Tgt Ion: 82 Resp: 1573083

Ion Ratio Lower Upper

82 100

128 48.1 37.4 56.2

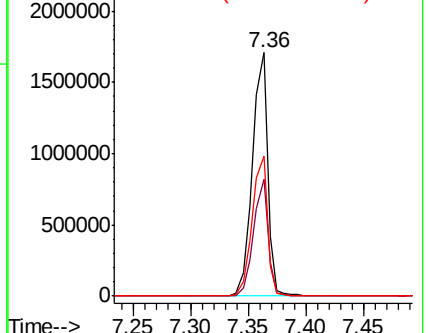
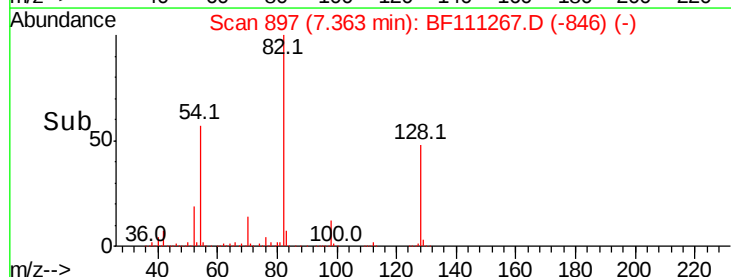
54 57.2 47.6 71.4

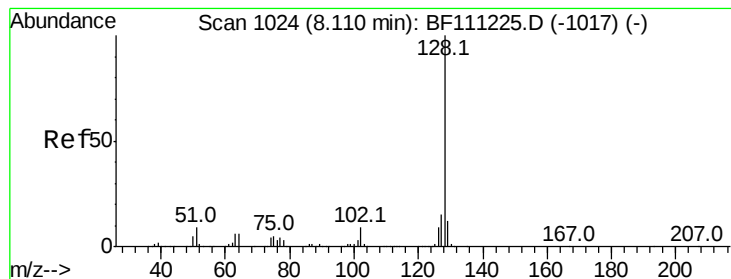


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 3.476 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Instrument :

BNA_F

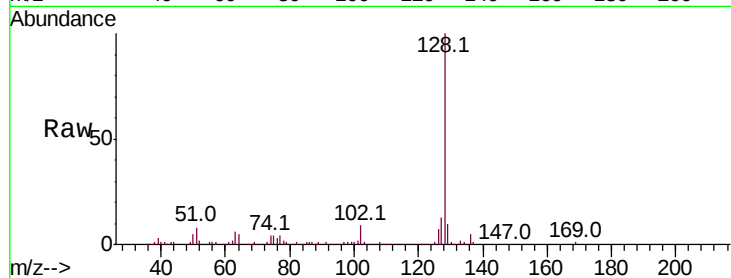
ClientSampleId :

SB-4(0-2)

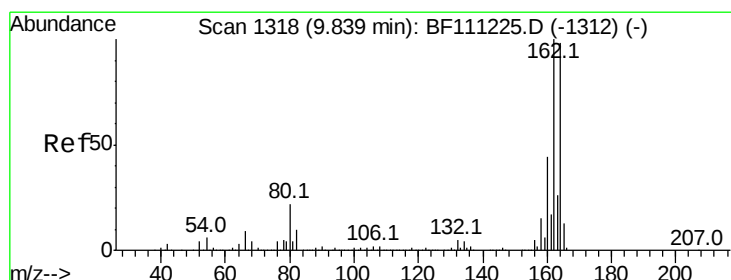
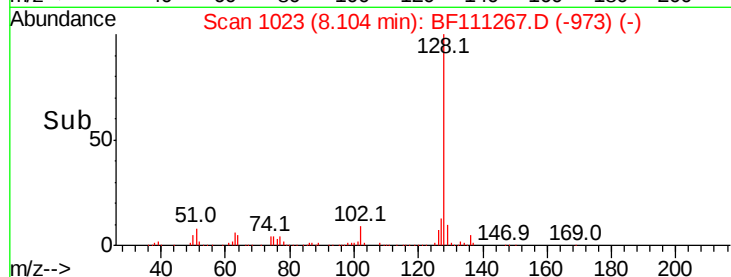
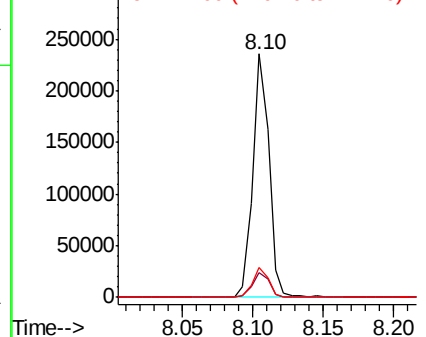
Tot Ion:	128	Resp:	190540
Ion Ratio	Lower	Upper	
128	100		
129	10.1	9.8	14.8
127	12.5	12.0	18.0

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

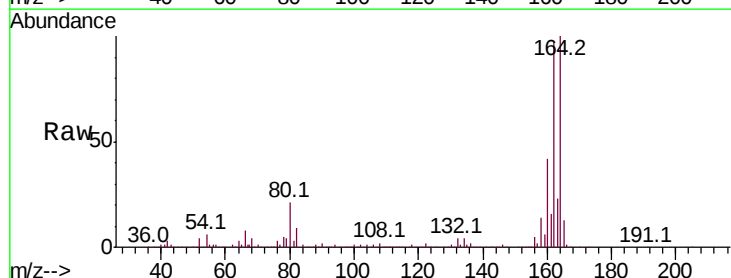
RT: 9.84 min Scan# 1318

Delta R.T. -0.00 min

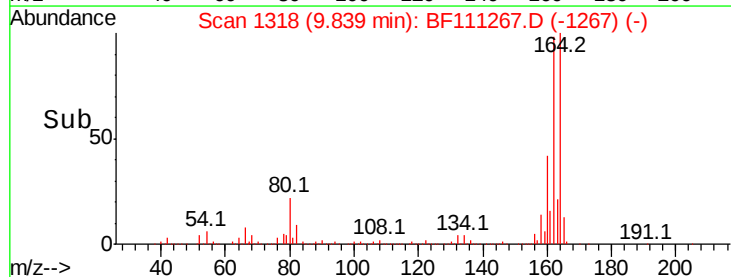
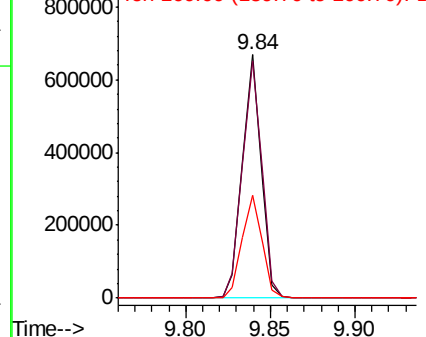
Lab File: BF111267.D

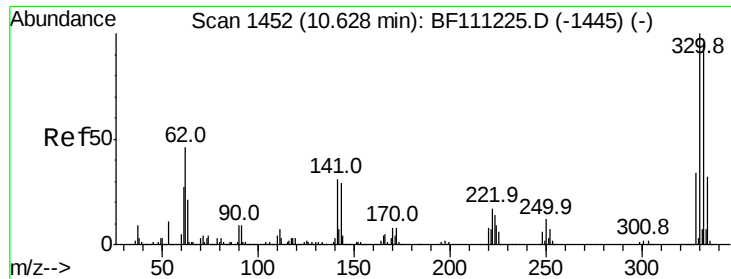
Acq: 11 Dec 2018 2:43

Tgt Ion:	164	Resp:	519455
Ion Ratio	Lower	Upper	
164	100		
162	97.4	81.4	122.0
160	42.2	35.7	53.5



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





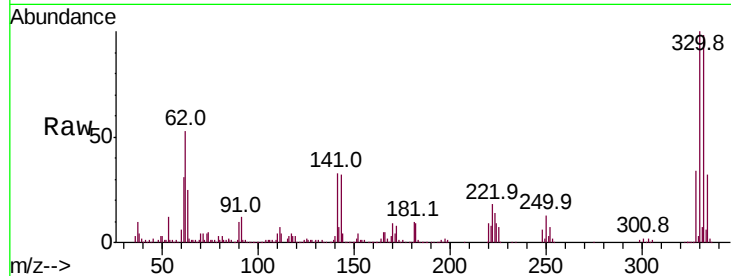
#42
 2,4,6-Tribromophenol
 Concen: 81.586 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.00 min
 Lab File: BF111267.D
 Acq: 11 Dec 2018 2:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.1	76.0	114.0	
141	39.6	31.0	46.6	

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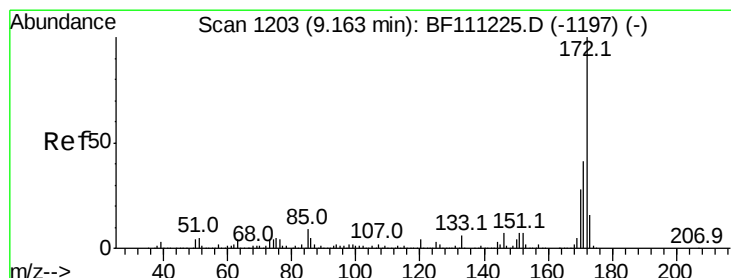
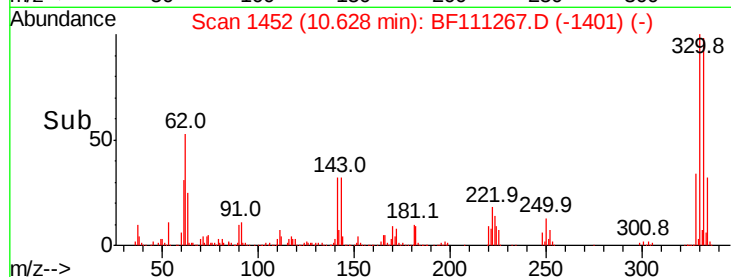
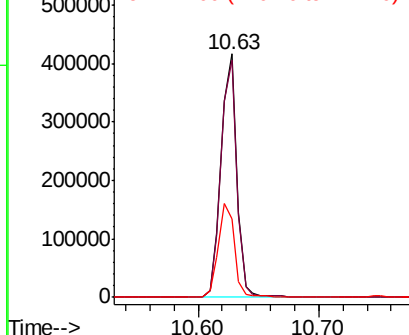


Abundance

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



#45
 2-Fluorobiphenyl
 Concen: 54.510 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: BF111267.D
 Acq: 11 Dec 2018 2:43

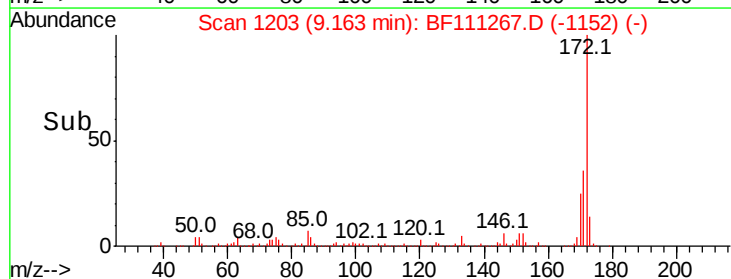
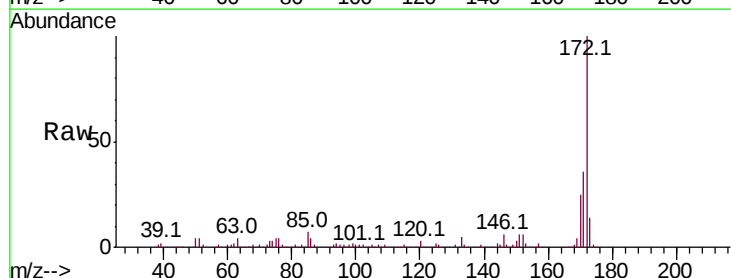
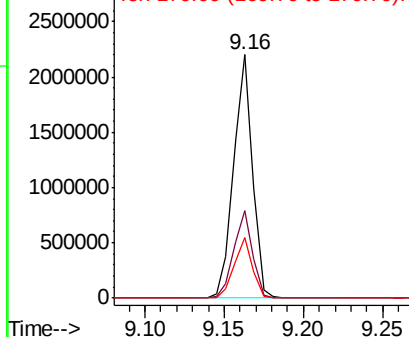
Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.1	33.0	49.4	
170	24.8	22.3	33.5	

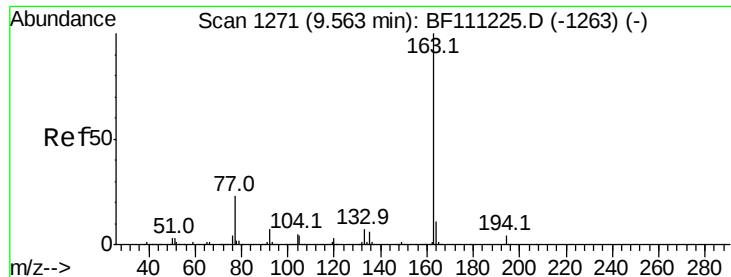
Abundance

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





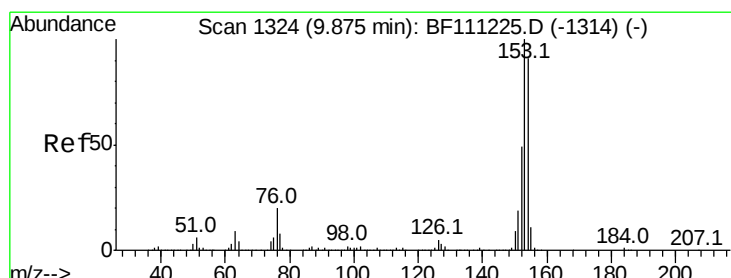
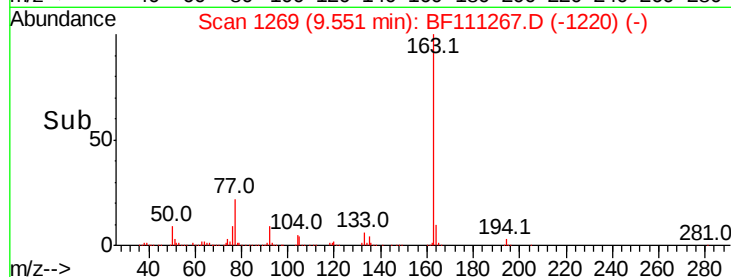
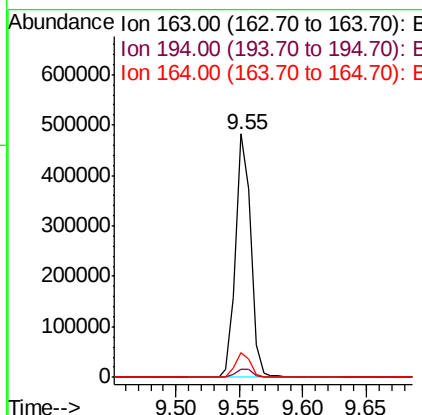
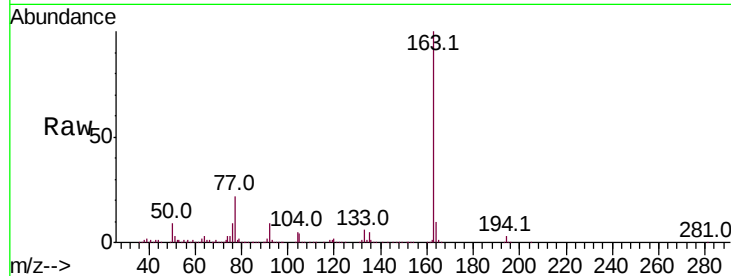
#50
Dimethylphthalate
Concen: 10.297 ng
RT: 9.55 min Scan# 1269
Delta R.T. -0.01 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.3	3.0	4.6	
164	10.3	8.9	13.3	

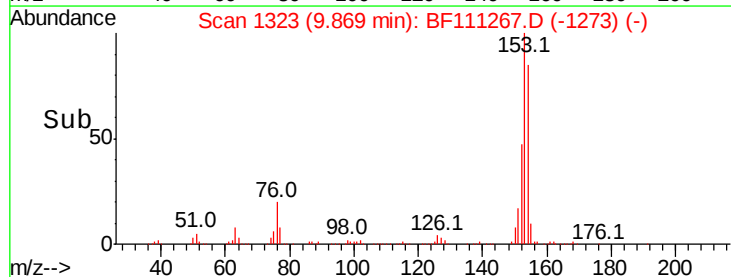
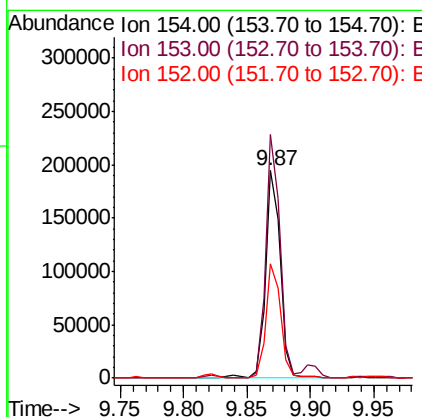
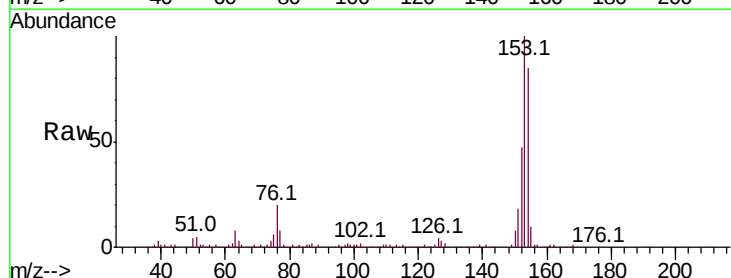
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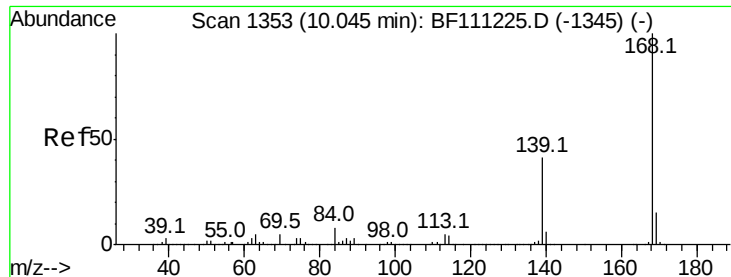
Sohil
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#52
Acenaphthene
Concen: 5.218 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	117.3	87.8	131.8	
152	55.4	43.4	65.2	





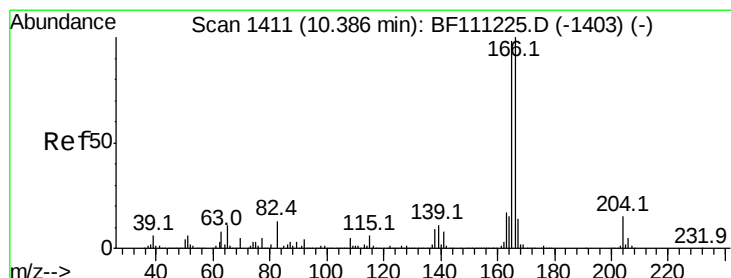
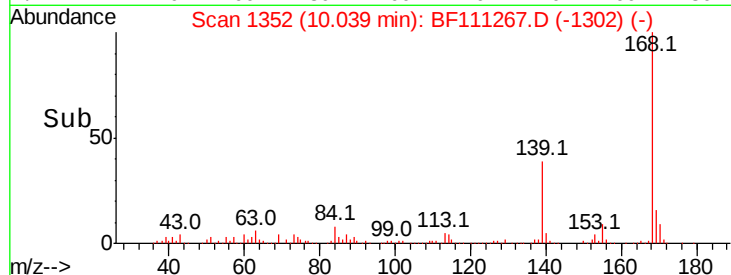
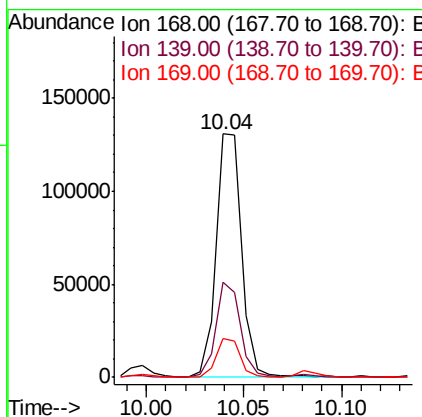
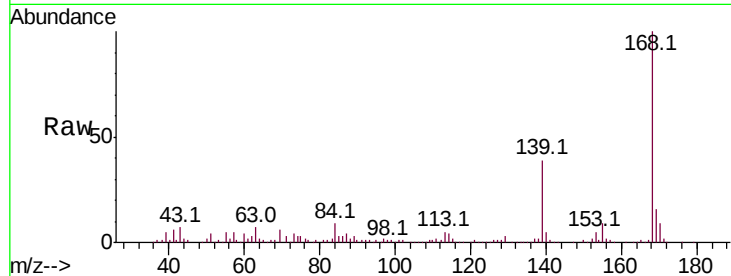
#55
Dibenzofuran
Concen: 2.793 ng
RT: 10.04 min Scan# 1352
Delta R.T. -0.01 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
168	100	117654		
139	39.1		32.6	49.0
169	15.8		11.8	17.6

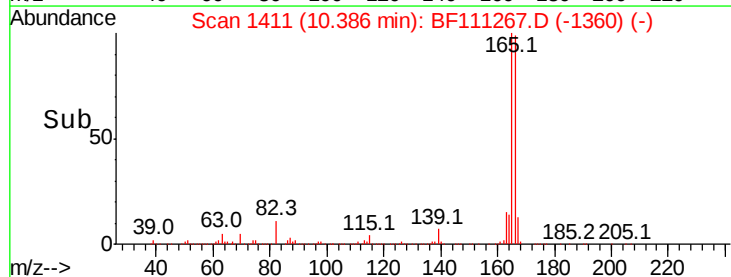
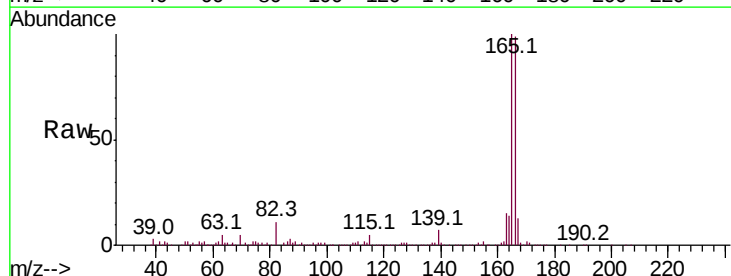
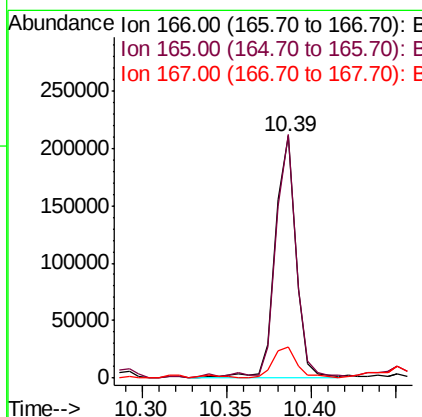
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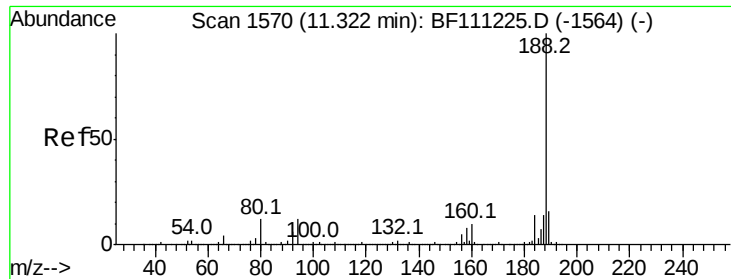
Sohil
12/11/2018 2:23:51 PM



#58
Fluorene
Concen: 5.411 ng
RT: 10.39 min Scan# 1411
Delta R.T. 0.00 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	176398		
165	100.6		78.4	117.6
167	13.0		11.2	16.8





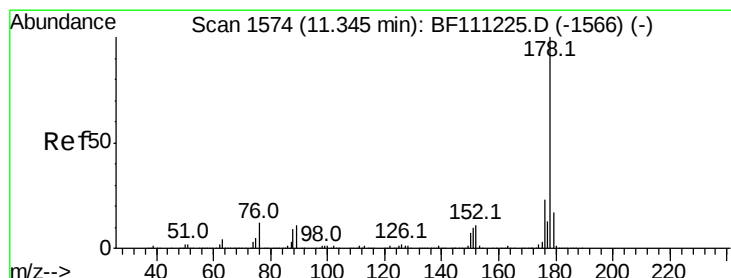
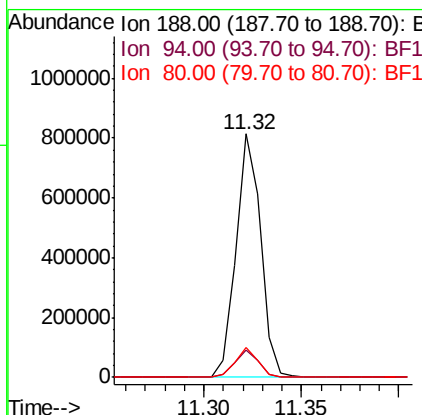
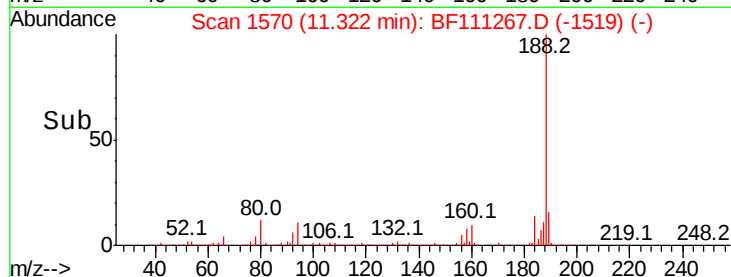
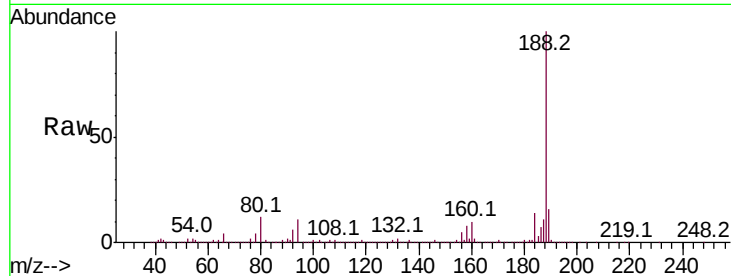
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.00 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Instrument :
BNA_F
ClientSampled :
SB-4(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	711938		
94	11.1		9.6	14.4
80	12.1		9.8	14.6

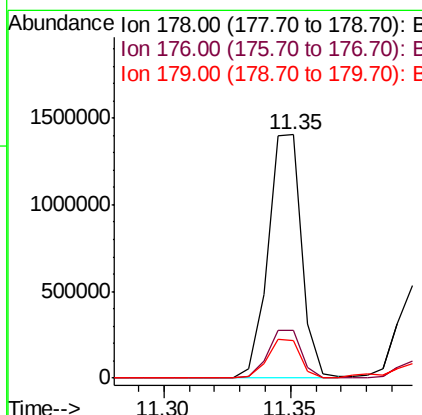
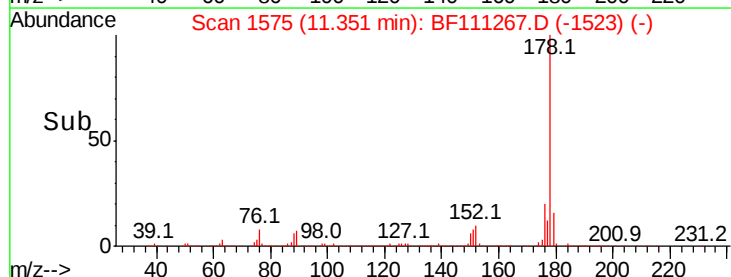
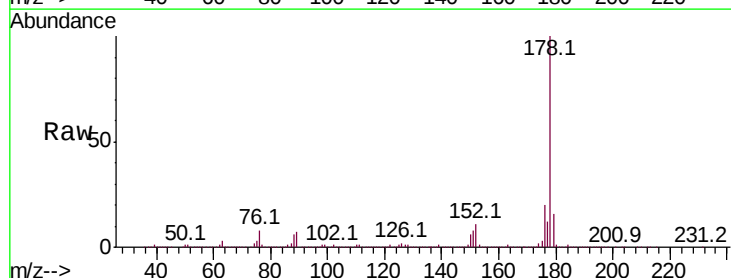
Manual Integrations
APPROVED

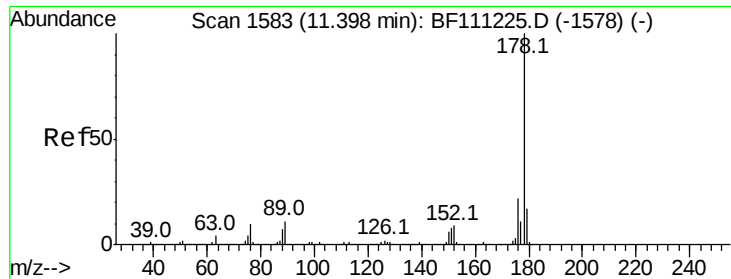
Sohil
12/11/2018 2:23:51 PM



#71
Phenanthrene
Concen: 36.118 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.01 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1296989		
176	19.5		18.1	27.1
179	15.6		14.0	21.0





#72

Anthracene

Concen: 10.761 ng

RT: 11.40 min Scan# 1583

Delta R.T. 0.00 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Instrument :

BNA_F

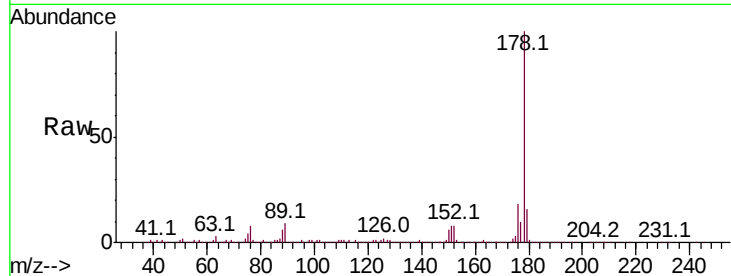
ClientSampleId :

SB-4(0-2)

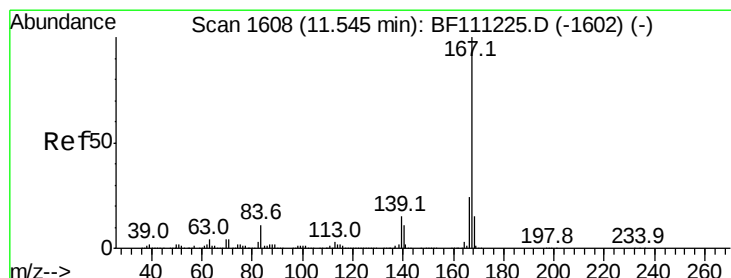
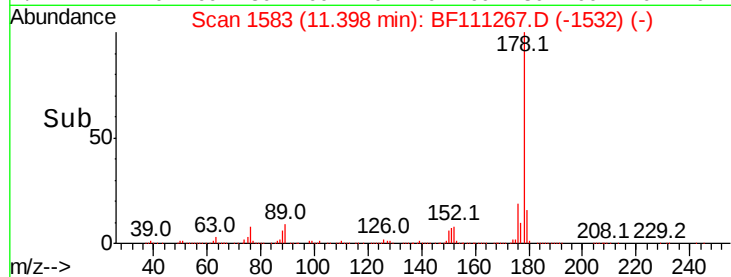
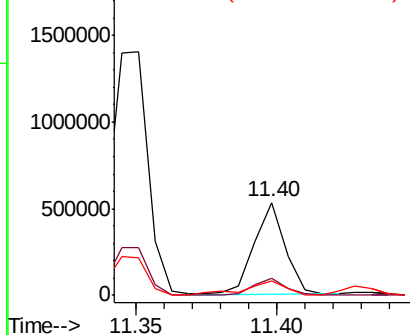
Tot Ion:	178	Resp:	404271
Ion Ratio	Lower	Upper	
178	100		
176	18.5	17.2	25.8
179	16.3	13.8	20.8

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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



#73

Carbazole

Concen: 4.257 ng

RT: 11.55 min Scan# 1609

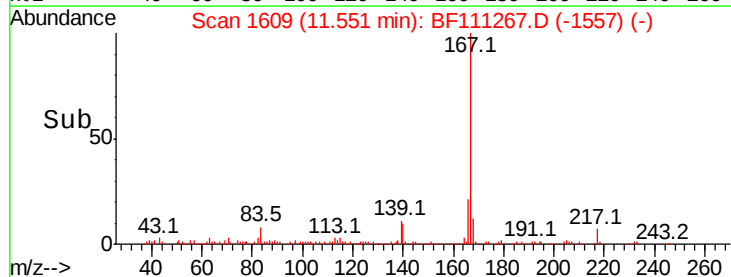
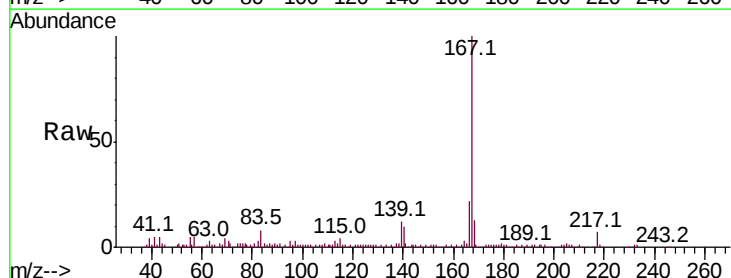
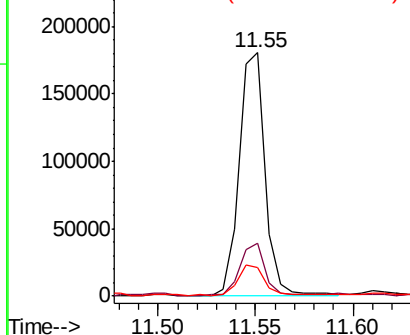
Delta R.T. 0.01 min

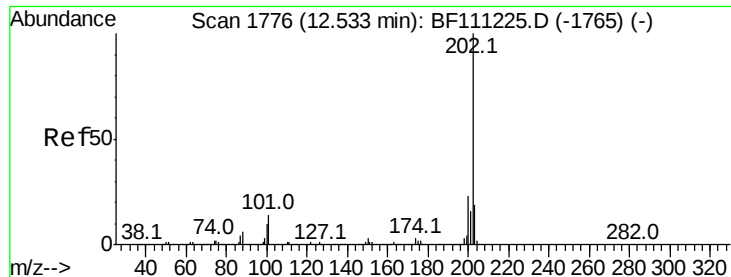
Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Tgt Ion:	167	Resp:	167233
Ion Ratio	Lower	Upper	
167	100		
166	22.0	19.3	28.9
139	11.5	11.9	17.9#

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





#75

Fluoranthene

Concen: 65.620 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Instrument :

BNA_F

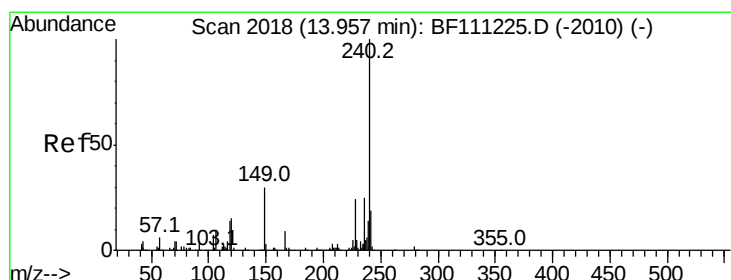
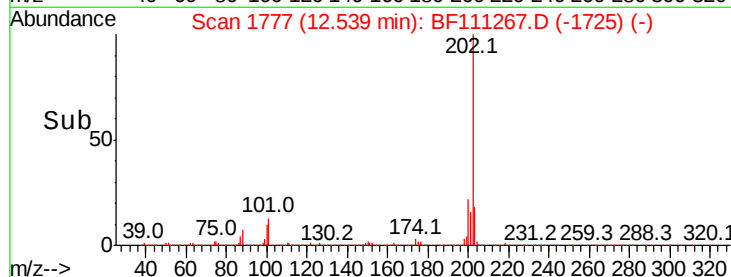
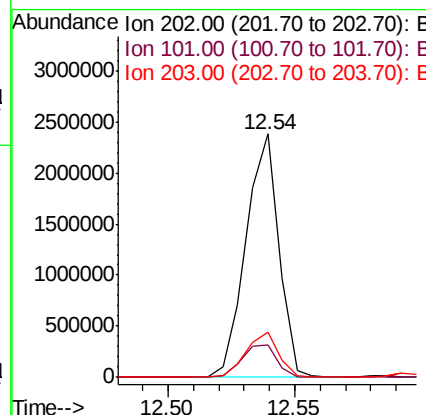
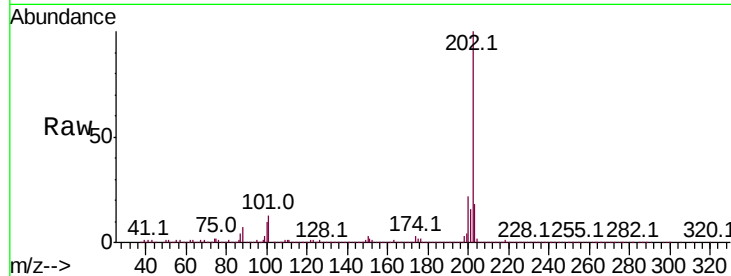
ClientSampleId :

SB-4(0-2)

Tot Ion:	202	Resp:	2152525
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	33.8
203	18.5	0.0	38.6

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#76

Chrysene-d12

Concen: 20.000 ng

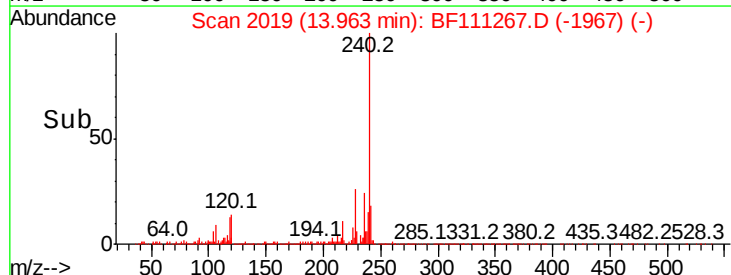
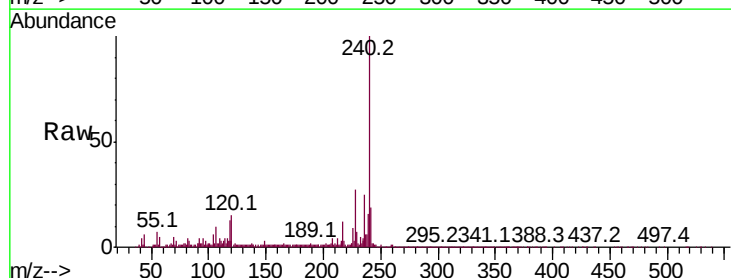
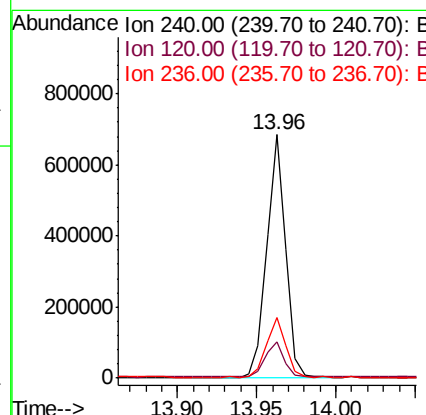
RT: 13.96 min Scan# 2019

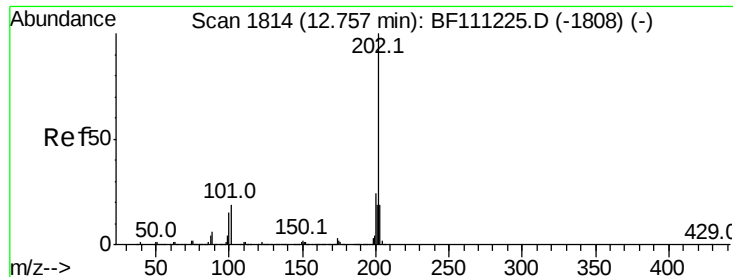
Delta R.T. 0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Tgt Ion:	240	Resp:	570069
Ion Ratio	Lower	Upper	
240	100		
120	14.7	12.2	18.2
236	24.9	20.2	30.2





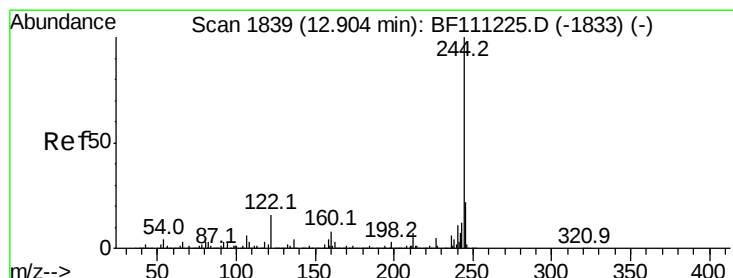
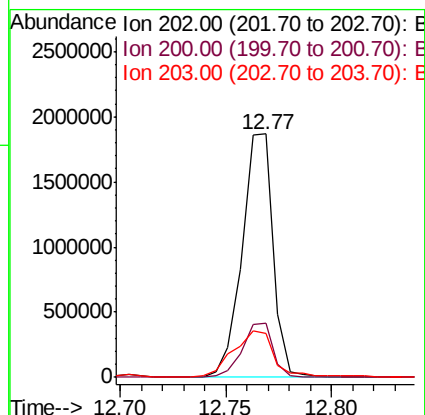
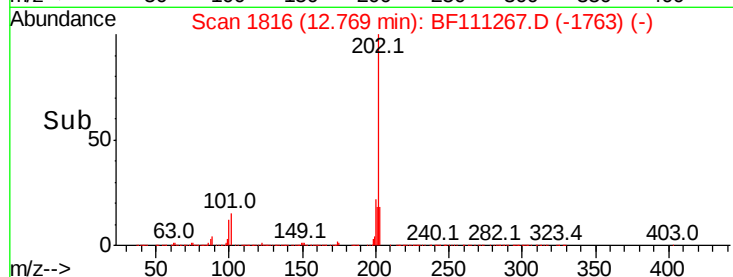
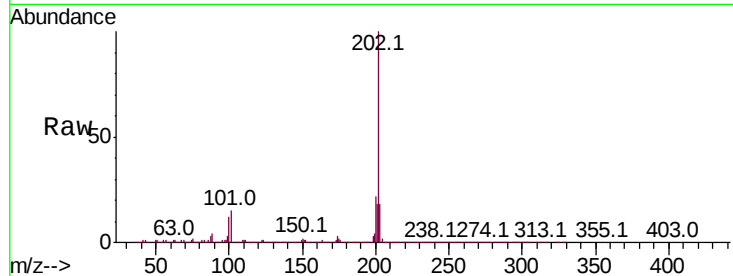
#78
Pvrene
Concen: 46.688 ng
RT: 12.77 min Scan# 1816
Delta R.T. 0.01 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.3	19.0	28.4
203	18.2	15.2	22.8

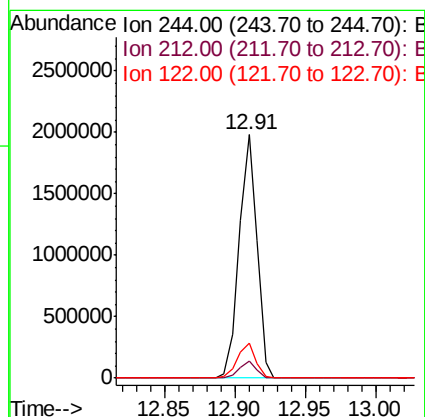
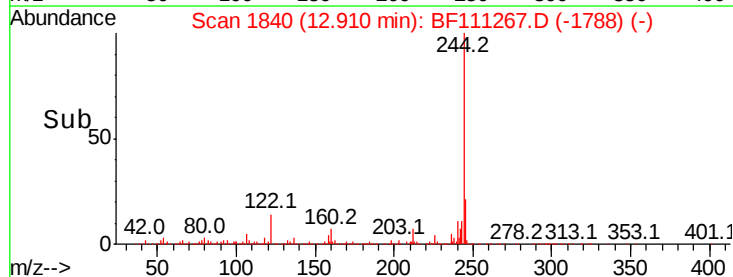
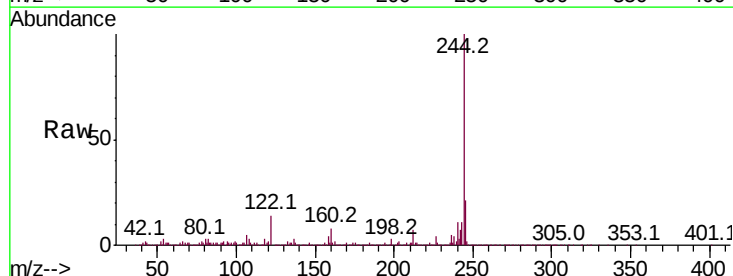
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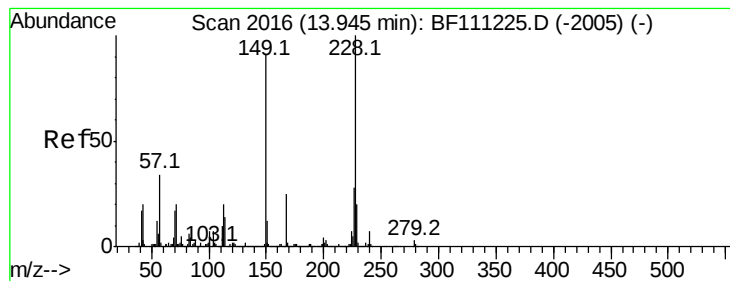
Sohil
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#79
Terphenyl-d14
Concen: 72.773 ng
RT: 12.91 min Scan# 1840
Delta R.T. 0.01 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	14.4	13.1	19.7





#81

Benzo(a)anthracene

Concen: 28.196 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Instrument :

BNA_F

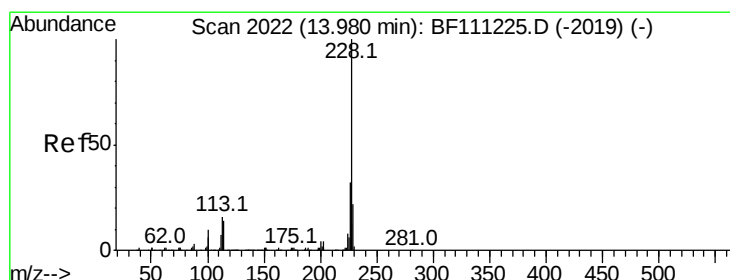
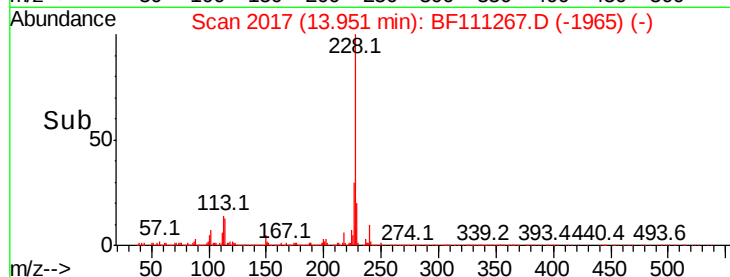
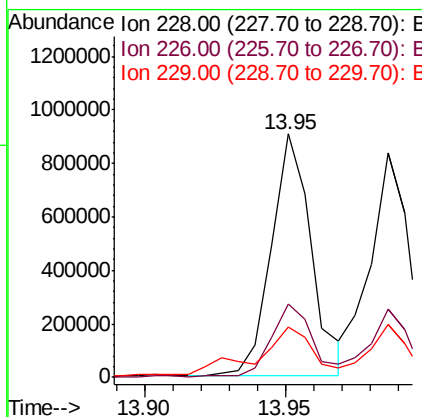
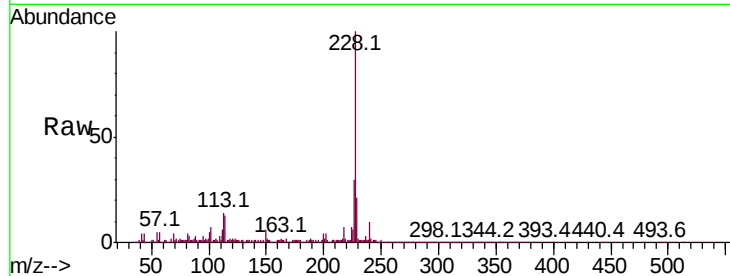
ClientSampleId :

SB-4(0-2)

Tot Ion:	228	Resp:	896725
Ion Ratio	Lower	Upper	
228	100		
226	30.3	22.6	34.0
229	20.9	16.3	24.5

Manual Integrations
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#83

Chrysene

Concen: 24.009 ng

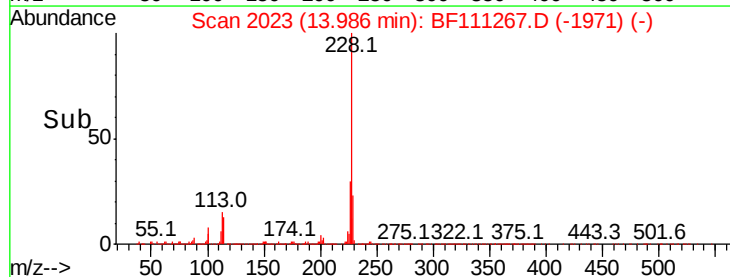
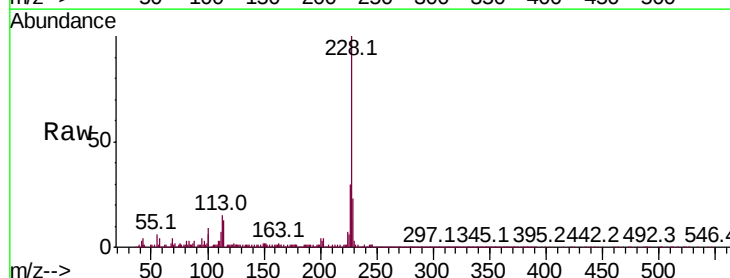
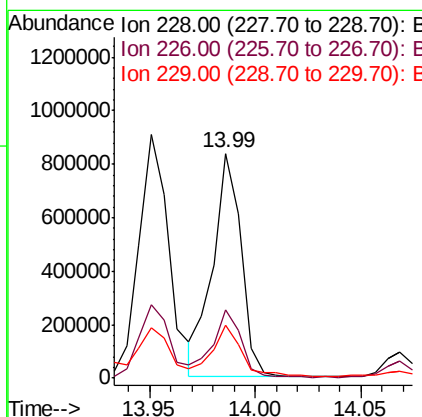
RT: 13.99 min Scan# 2023

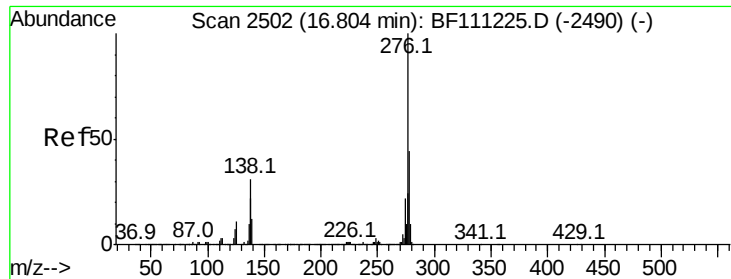
Delta R.T. 0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Tgt Ion:	228	Resp:	787199
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.3	37.9
229	23.3	17.2	25.8





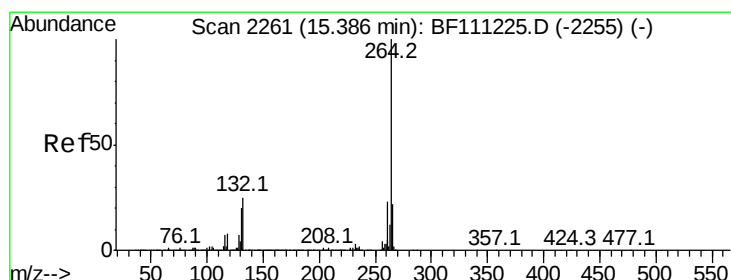
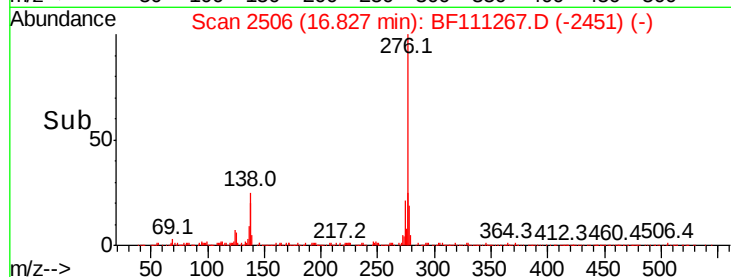
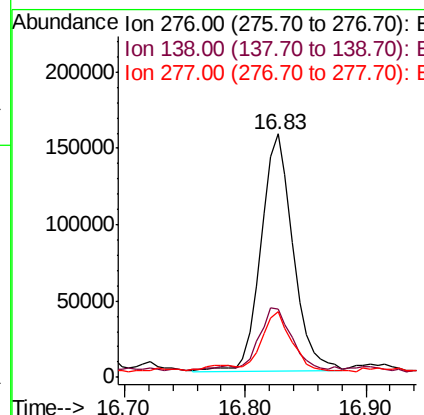
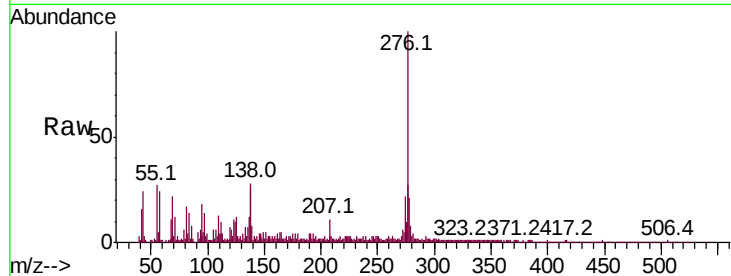
#86
Indeno(1,2,3-cd)pyrene
Concen: 10.943 ng
RT: 16.83 min Scan# 2506
Delta R.T. 0.02 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	28.1	27.8	41.6
277	22.5	20.1	30.1

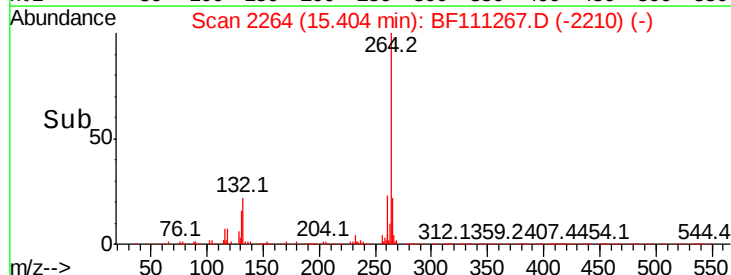
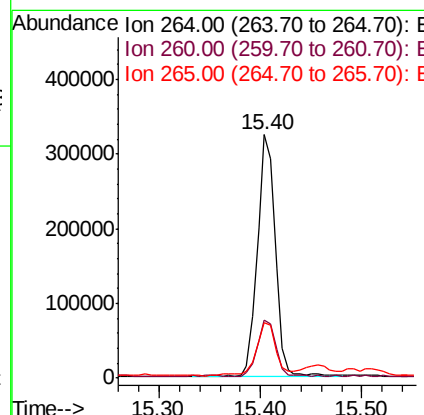
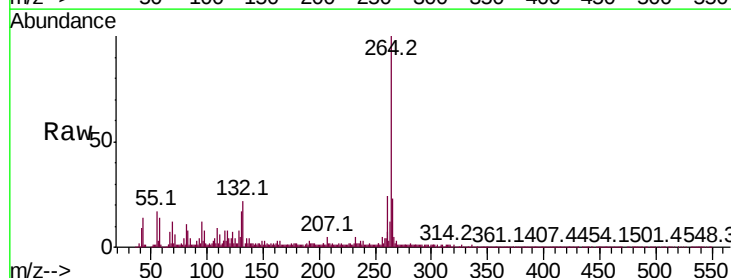
Manual Integrations
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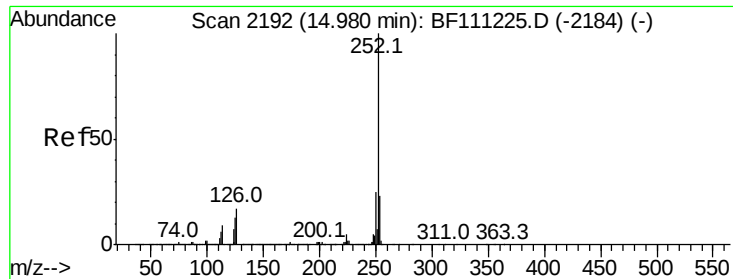
Sohil
12/11/2018 2:23:51 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.02 min
Lab File: BF111267.D
Acq: 11 Dec 2018 2:43

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	23.6	18.3	27.5
265	22.8	17.7	26.5





#88

Benzo(b)fluoranthene

Concen: 36.587 ng m

RT: 14.99 min Scan# 2194

Delta R.T. 0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Instrument :

BNA_F

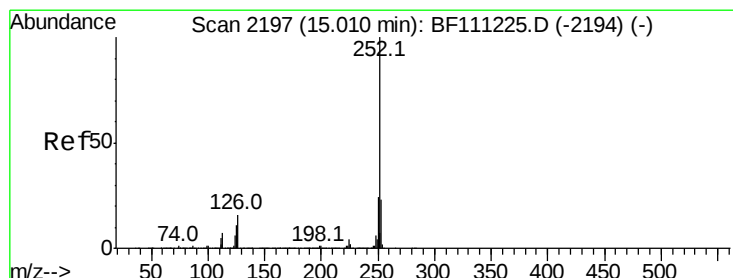
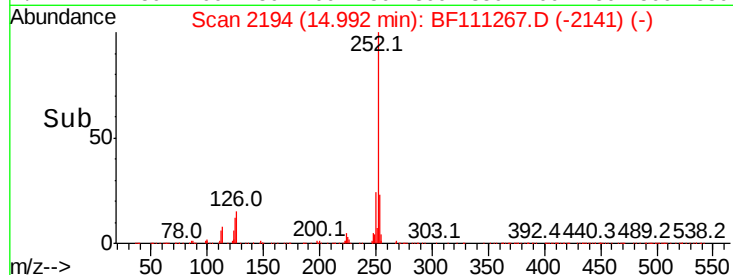
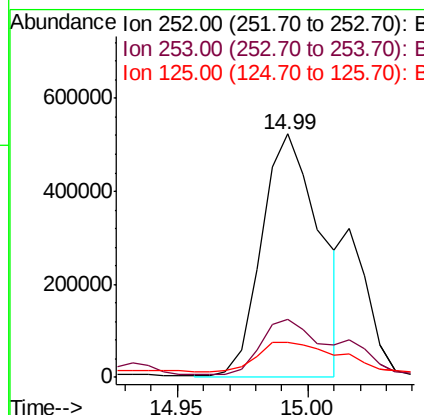
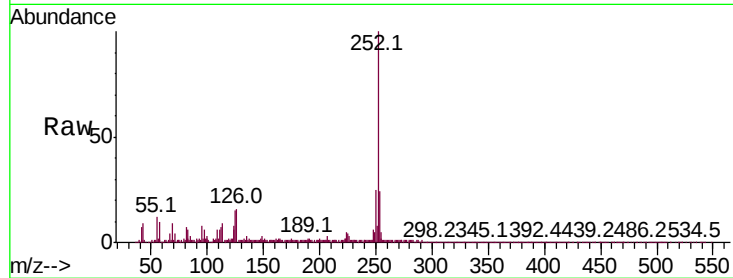
ClientSampled :

SB-4(0-2)

Tot Ion:	252	Resp:	814549
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.2	27.2
125	14.6	10.4	15.6

Manual Integrations
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#89

Benzo(k)fluoranthene

Concen: 10.997 ng m

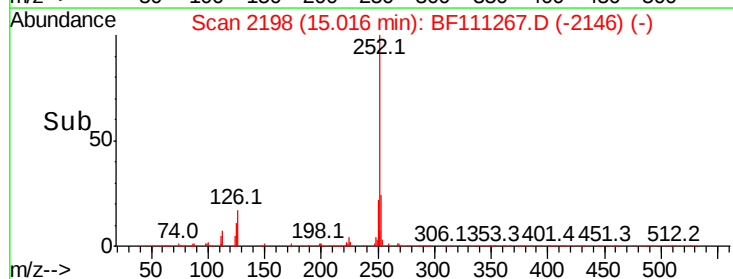
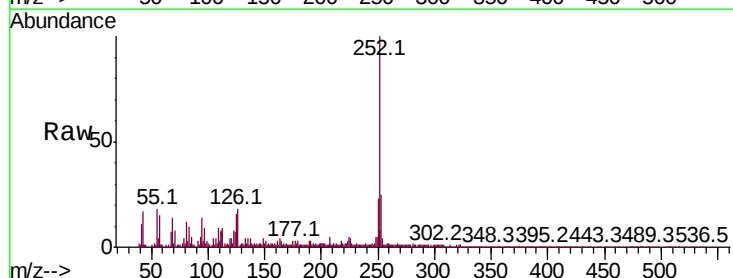
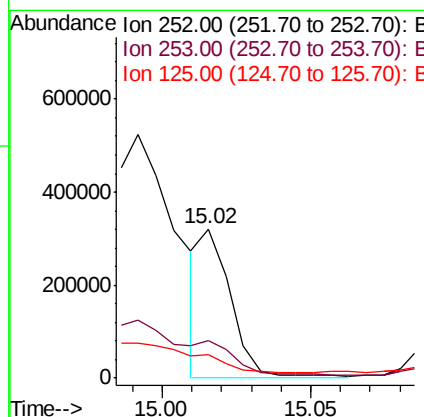
RT: 15.02 min Scan# 2198

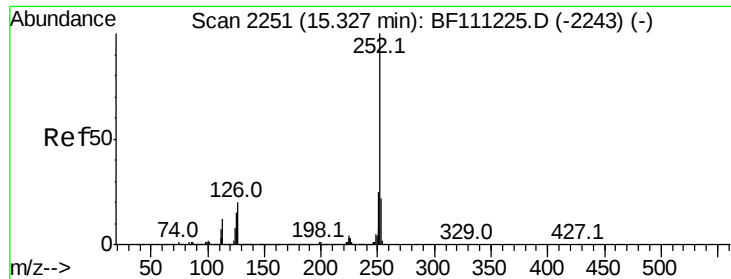
Delta R.T. 0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Tgt Ion:	252	Resp:	230185
Ion Ratio	Lower	Upper	
252	100		
253	25.2	18.1	27.1
125	15.9	9.8	14.8#





#90

Benzo(a)pyrene

Concen: 25.142 ng

RT: 15.34 min Scan# 2254

Delta R.T. 0.02 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Instrument :

BNA_F

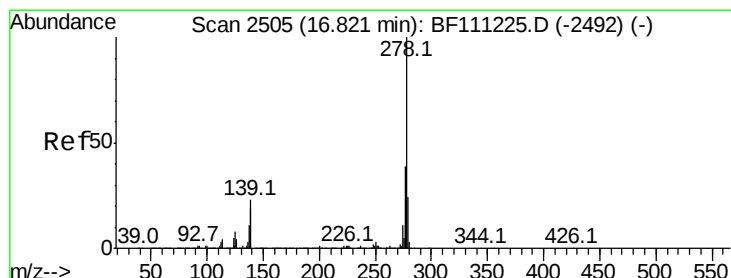
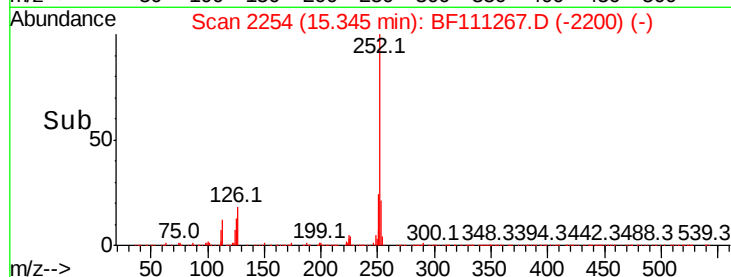
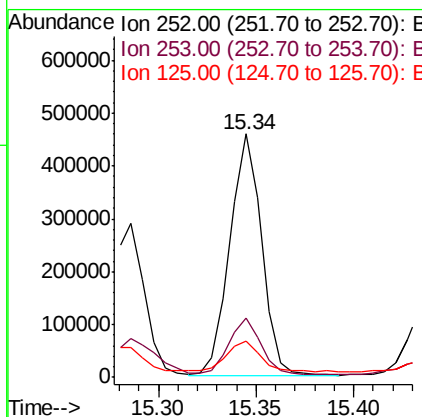
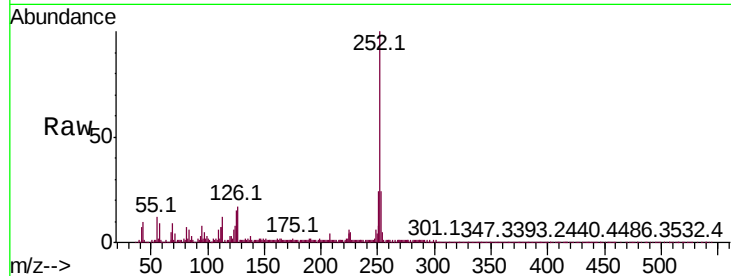
ClientSampleId :

SB-4(0-2)

Tot Ion:	252	Resp:	515459
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.8	26.8
125	15.1	12.3	18.5

Manual Integrations
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#91

Dibenzo(a,h)anthracene

Concen: 4.629 ng

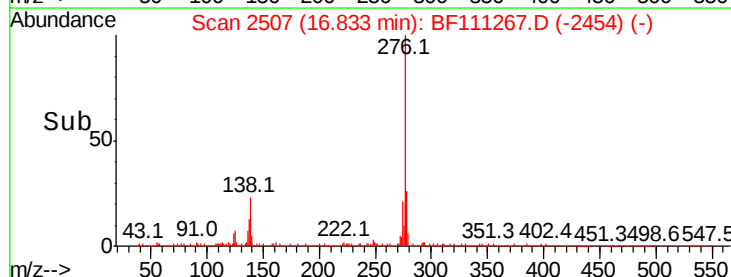
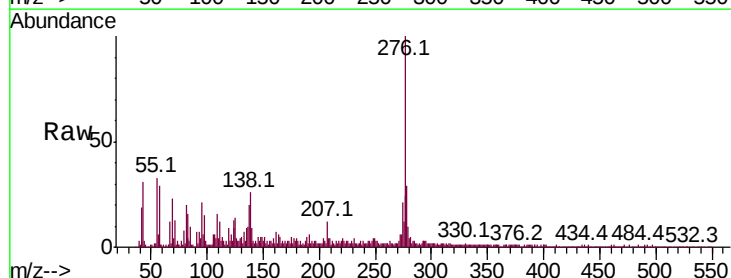
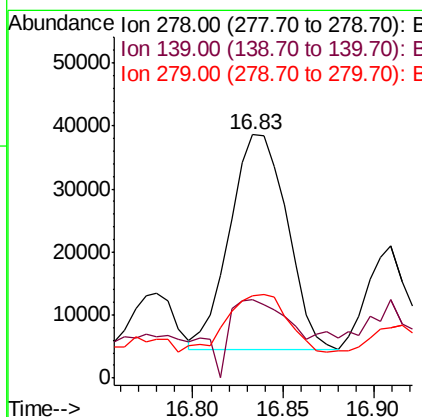
RT: 16.83 min Scan# 2507

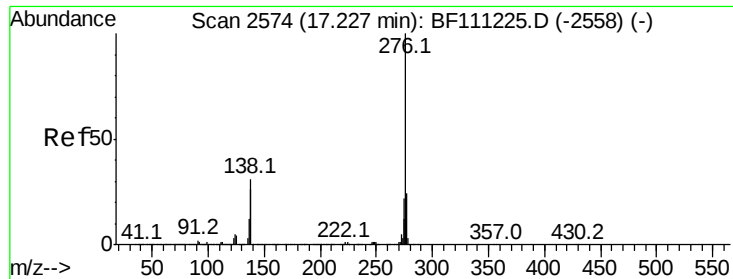
Delta R.T. 0.01 min

Lab File: BF111267.D

Acq: 11 Dec 2018 2:43

Tgt Ion:	278	Resp:	74537
Ion Ratio	Lower	Upper	
278	100		
139	32.4	18.2	27.4#
279	34.0	19.0	28.6#





#92
 Benzo(a,h,i)perylene
 Concen: 15.119 ng
 RT: 17.26 min Scan# 2579
 Delta R.T. 0.03 min
 Lab File: BF111267.D
 Acq: 11 Dec 2018 2:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Tot Ion:	276	Resp:	243715
Ion Ratio	Lower	Upper	
276	100		
277	24.1	19.2	28.8
138	30.3	24.9	37.3

Manual Integrations
 APPROVED

Sohil
 12/11/2018 2:23:51 PM

