

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111918\
 Data File : BF110855.D
 Acq On : 19 Nov 2018 16:12
 Operator : JU/SJ
 Sample : J5989-01 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ES-RO-343

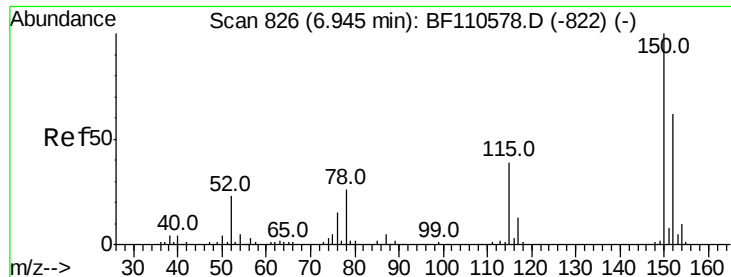
Manual Integrations
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 11/20/2018 11:07:36 AM

Quant Time: Nov 19 17:05:53 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 08 14:14:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	66254	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	262915	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	106210	20.00	ng	-0.01
64) Phenanthrene-d10	11.47	188	164756	20.00	ng	-0.01
76) Chrysene-d12	14.13	240	152855	20.00	ng	0.00
87) Perylene-d12	15.66	264	110183	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	215848	52.92	ng	0.00
7) Phenol-d6	6.56	99	286072	54.85	ng	-0.01
23) Nitrobenzene-d5	7.50	82	180058	39.44	ng	-0.01
42) 2,4,6-Tribromophenol	10.78	330	41403	38.69	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	321941	43.29	ng	-0.01
79) Terphenyl-d14	13.06	244	252931	30.99	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.58	94	13382	2.213	ng	84
31) Naphthalene	8.25	128	40175	3.255	ng	100
49) Acenaphthylene	9.85	152	24885	2.421	ng	97
50) Dimethylphthalate	9.69	163	41428	5.227	ng	98
52) Acenaphthene	10.02	154	17491	2.692	ng	96
58) Fluorene	10.53	166	26455	3.624	ng	98
71) Phenanthrene	11.50	178	246647	27.943	ng	100
72) Anthracene	11.56	178	71561	8.037	ng	99
75) Fluoranthene	12.70	202	367974	41.582	ng	99
78) Pyrene	12.93	202	364560	30.975	ng	98
81) Benzo(a)anthracene	14.12	228	194961	21.339	ng	98
83) Chrysene	14.16	228	167169	19.206	ng	97
86) Indeno(1,2,3-cd)pyrene	17.24	276	53635	8.587	ng	97
88) Benzo(b)fluoranthene	15.21	252	161251m	24.463	ng	
89) Benzo(k)fluoranthene	15.23	252	52143m	8.006	ng	
90) Benzo(a)pyrene	15.60	252	109490	18.282	ng	98
91) Dibenzo(a,h)anthracene	17.24	278	14727	2.906	ng	# 83
92) Benzo(g,h,i)perylene	17.73	276	51898	10.321	ng	96

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



#1

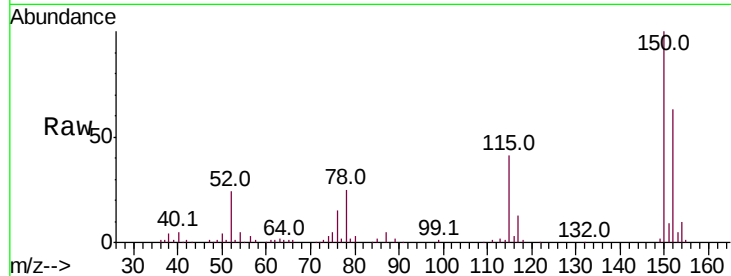
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Instrument :
BNA_F
ClientSampleId :
ES-RO-343

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.4	122.7	184.1
115	65.6	49.1	73.7

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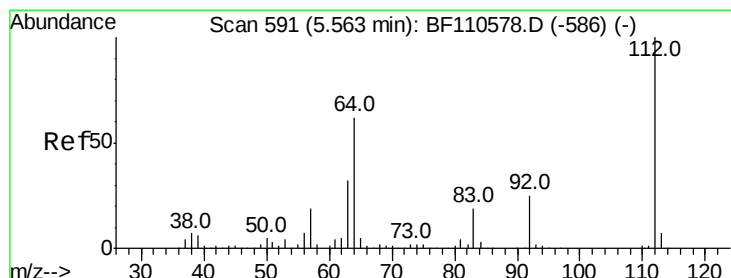
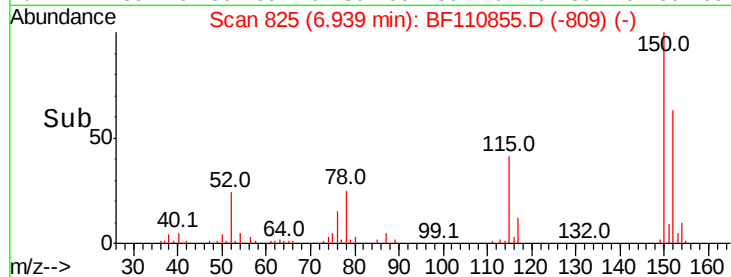
Abundance

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

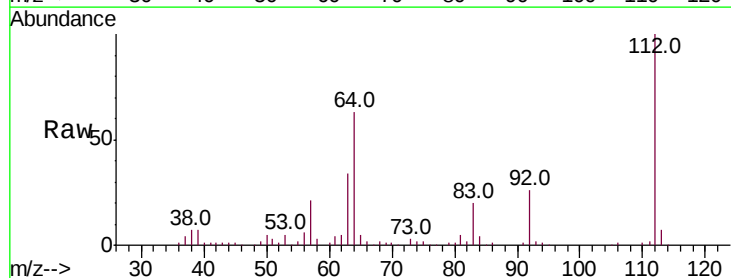
Time-->



#5

2-Fluorophenol
Concen: 52.918 ng
RT: 5.56 min Scan# 590
Delta R.T. -0.01 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.1	44.1	66.1
63	34.1	23.7	35.5



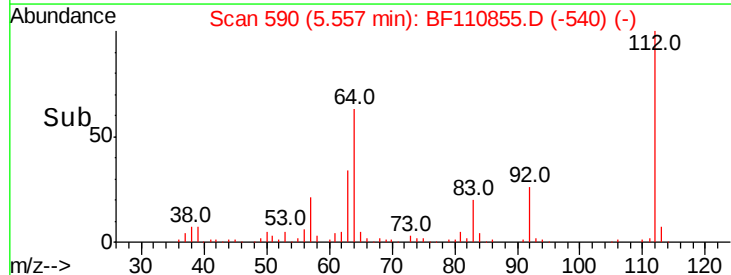
Abundance

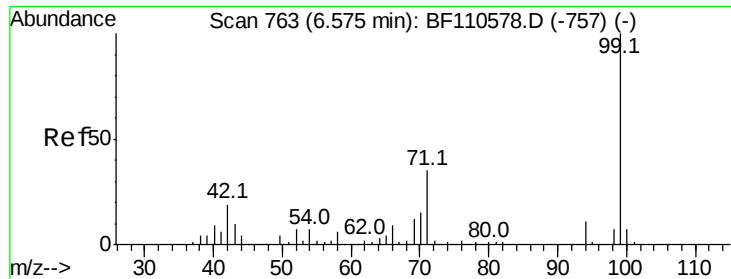
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 54.846 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

Instrument :

BNA_F

ClientSampleId :

ES-RO-343

Tot Ion: 99 Resp: 286072

Ion Ratio Lower Upper

99 100

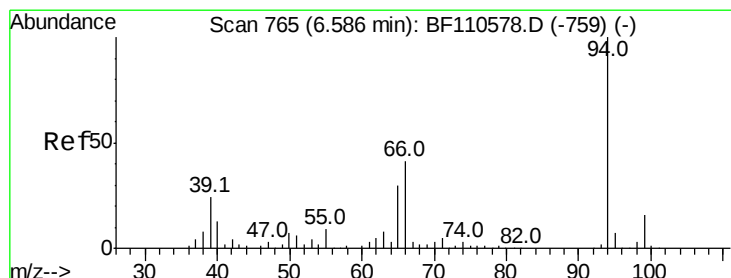
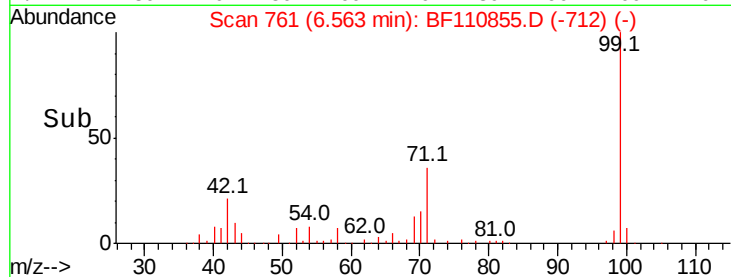
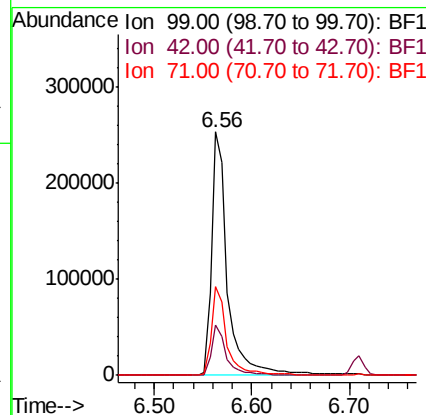
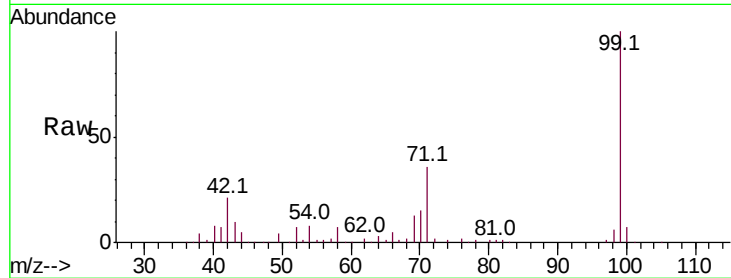
42 20.6 15.8 23.6

71 36.3 28.0 42.0

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#10

Phenol

Concen: 2.213 ng

RT: 6.58 min Scan# 764

Delta R.T. -0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

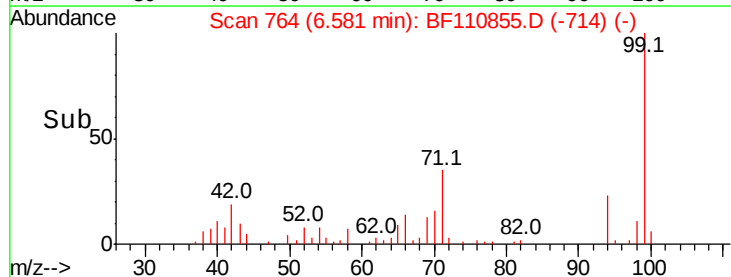
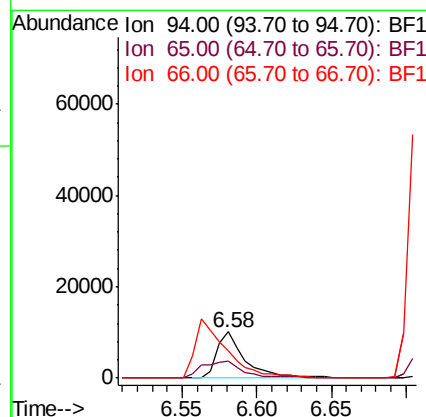
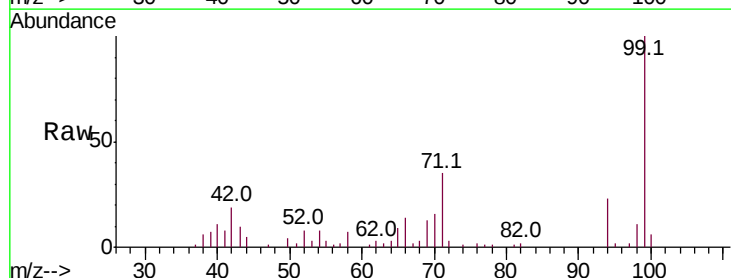
Tgt Ion: 94 Resp: 13382

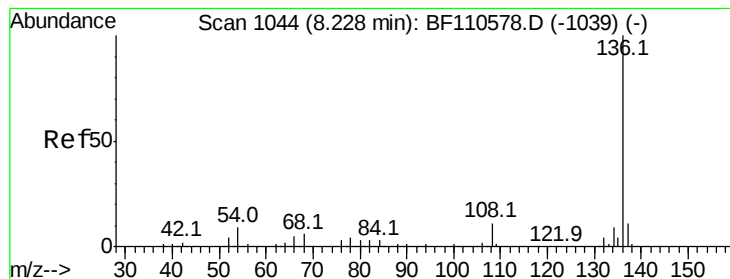
Ion Ratio Lower Upper

94 100

65 36.3 25.3 65.3

66 60.1 54.5 94.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.22 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

Instrument :

BNA_F

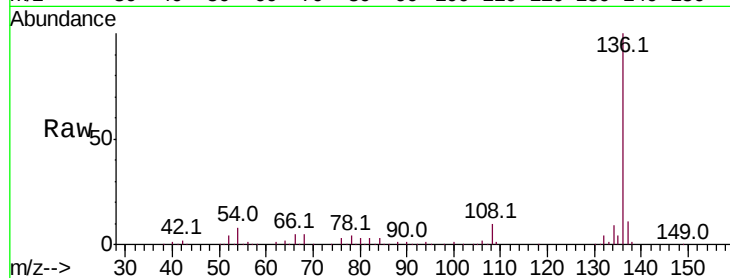
ClientSampleId :

ES-RO-343

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.6	8.8	13.2
54	8.2	5.4	8.2#
68	5.0	4.2	6.2

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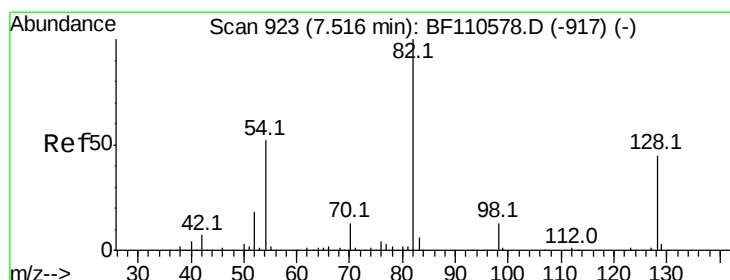
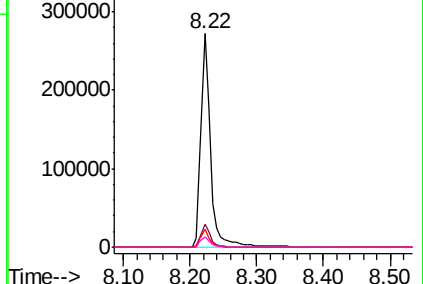
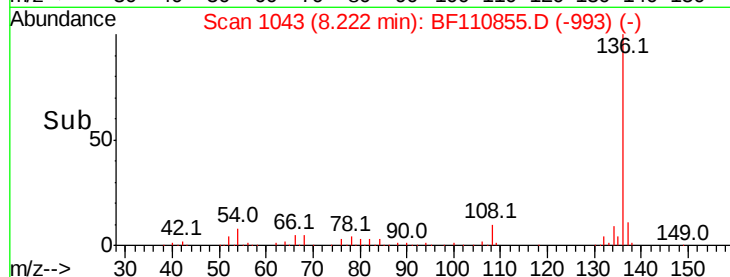


Abundance Ion 136.00 (135.70 to 136.70): E

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: 39.440 ng

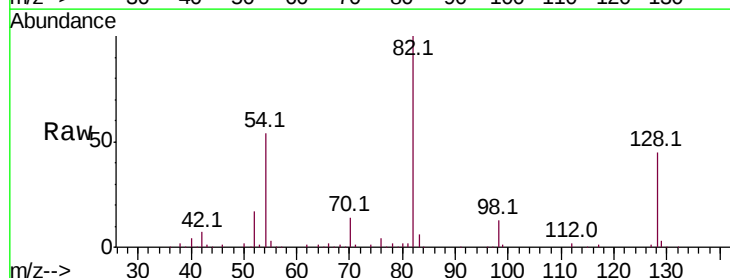
RT: 7.50 min Scan# 921

Delta R.T. -0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

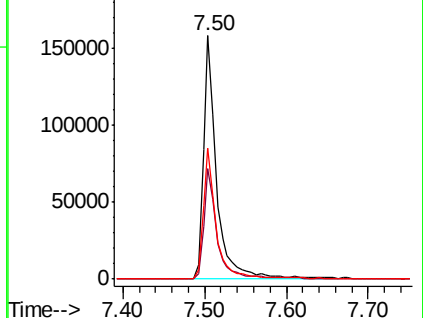
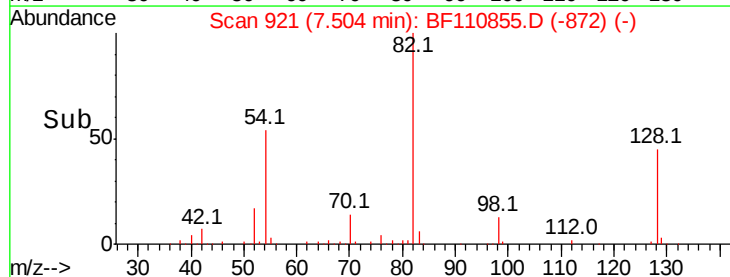
Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	45.2	34.2	51.2
54	53.6	38.6	58.0

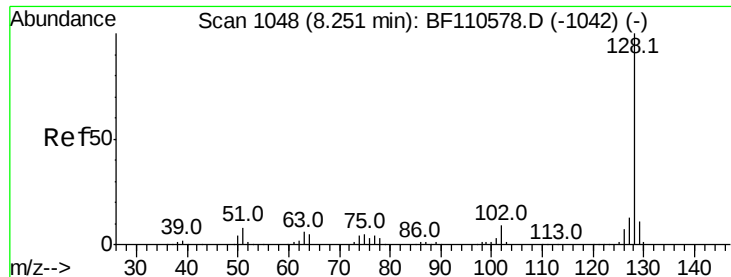


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 3.255 ng

RT: 8.25 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

Instrument :

BNA_F

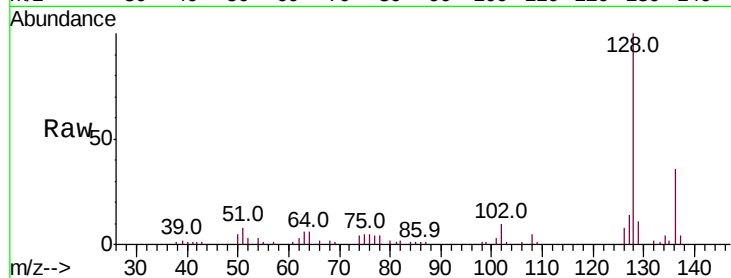
ClientSampleId :

ES-RO-343

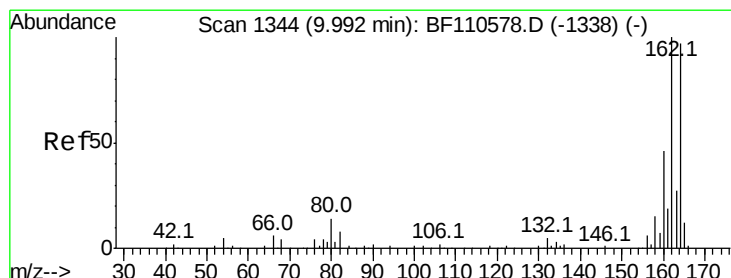
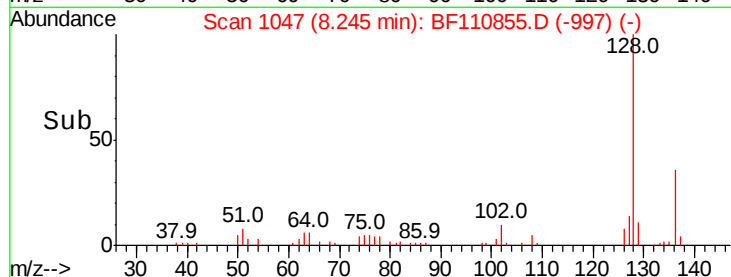
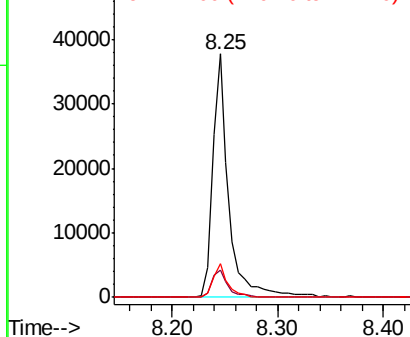
Tot Ion:	128	Resp:	40175
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.8	13.2
127	13.7	10.8	16.2

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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: 9.98 min Scan# 1342

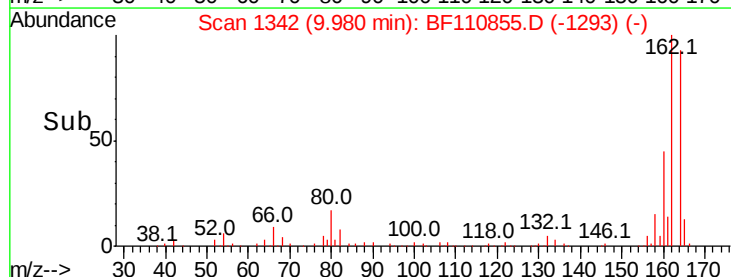
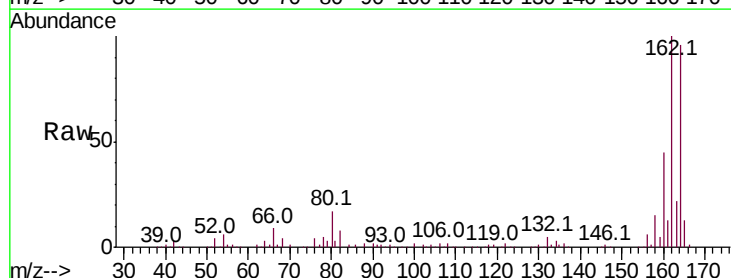
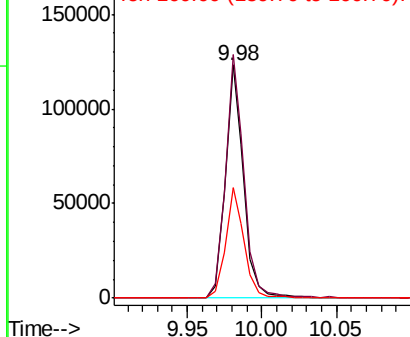
Delta R.T. -0.01 min

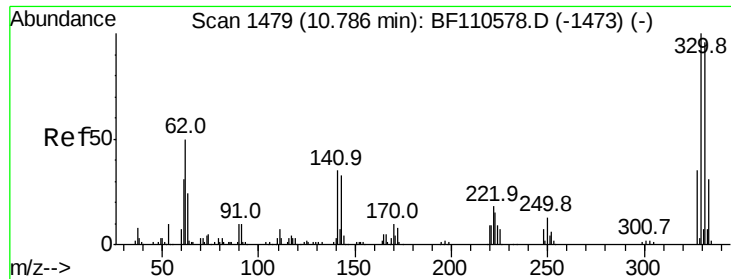
Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

Tgt Ion:	164	Resp:	106210
Ion Ratio	Lower	Upper	
164	100		
162	104.6	83.0	124.6
160	47.2	37.0	55.6

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





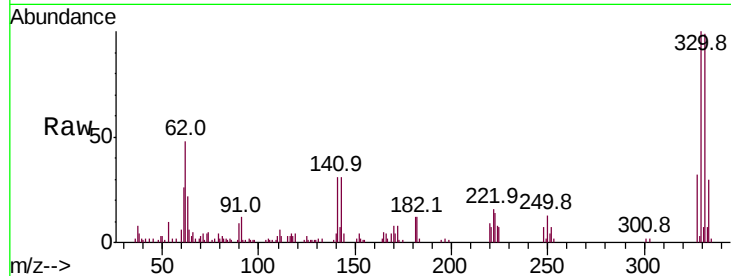
#42
 2,4,6-Tribromophenol
 Concen: 38.687 ng
 RT: 10.78 min Scan# 1478
 Delta R.T. -0.01 min
 Lab File: BF110855.D
 Acq: 19 Nov 2018 16:12

Instrument :
 BNA_F
 ClientSampled :
 ES-RO-343

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.1	115.7
141	40.6	27.0	40.4

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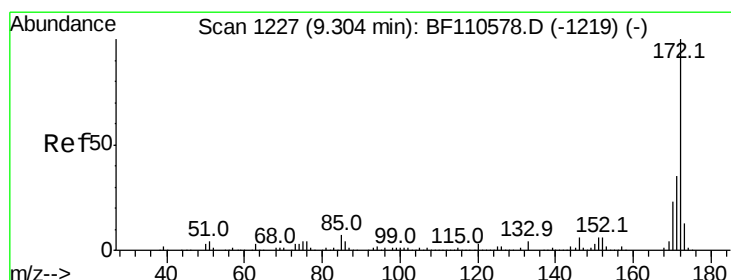
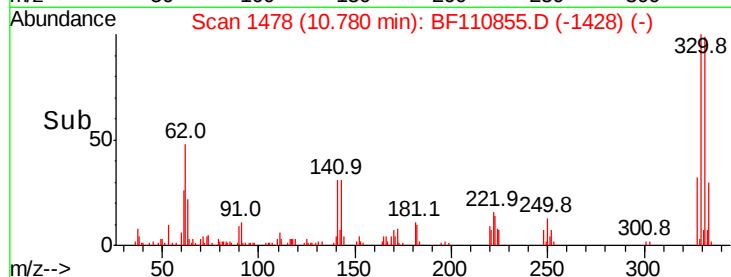
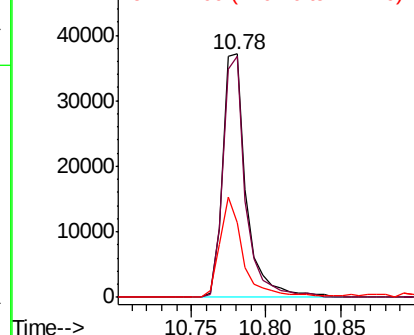


Abundance

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: 43.291 ng
 RT: 9.29 min Scan# 1225
 Delta R.T. -0.01 min
 Lab File: BF110855.D
 Acq: 19 Nov 2018 16:12

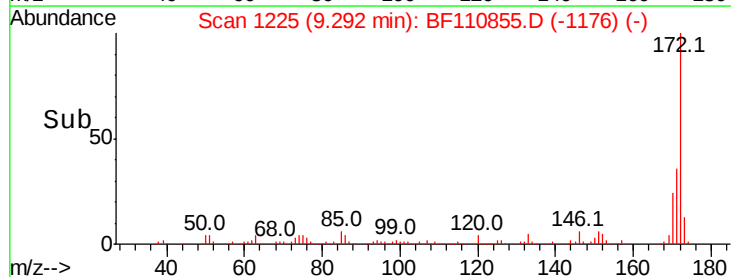
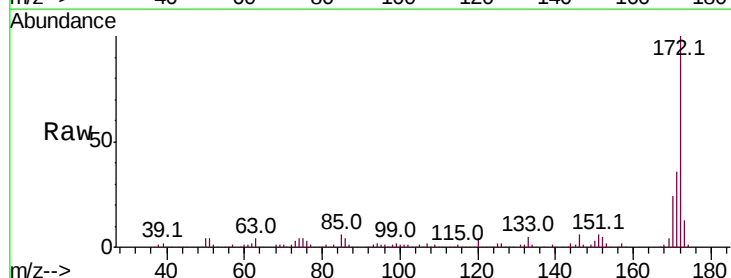
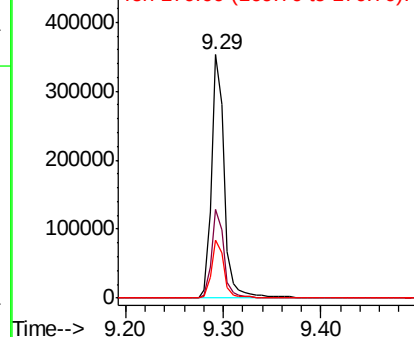
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.6	43.0
170	23.6	19.7	29.5

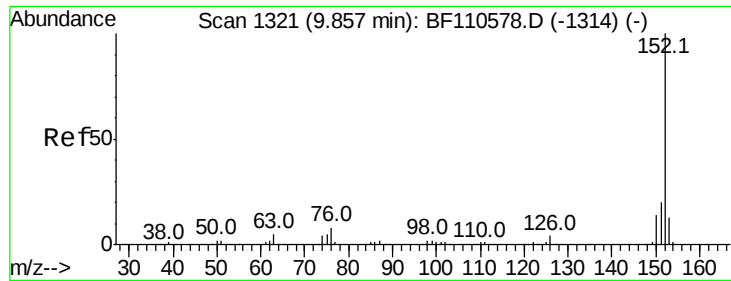
Abundance

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





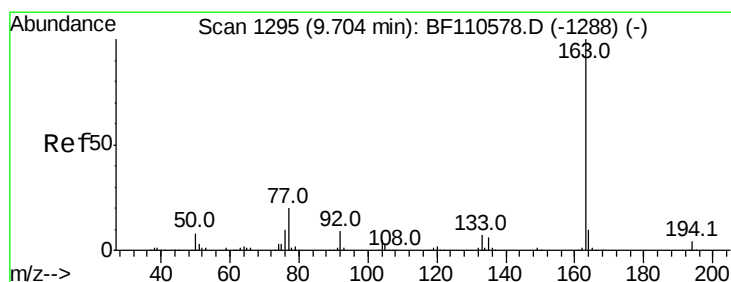
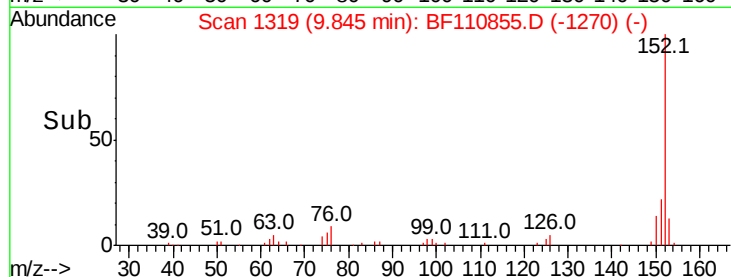
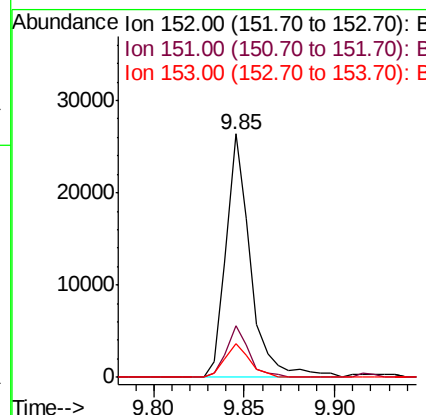
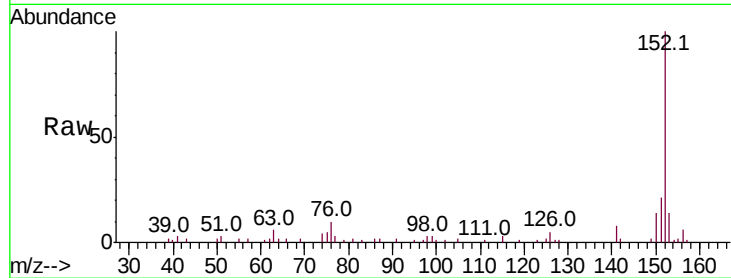
#49
Acenaphthylene
Concen: 2.421 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Instrument :
BNA_F
ClientSampleId :
ES-RO-343

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.3	15.8	23.8
153	13.9	10.4	15.6

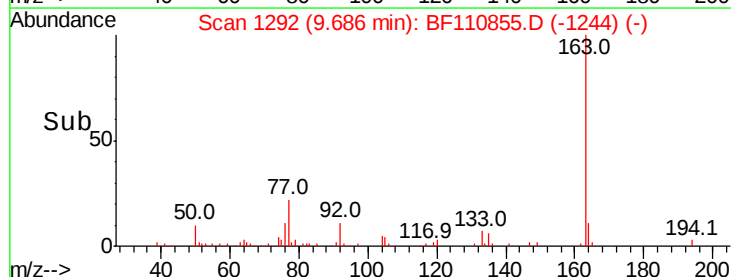
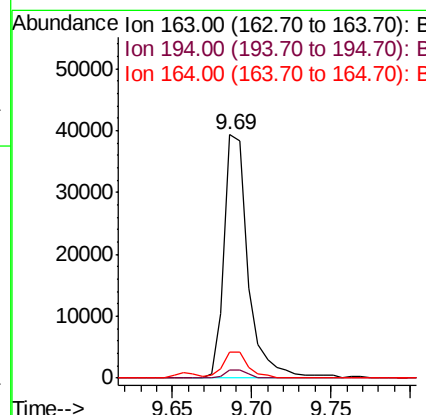
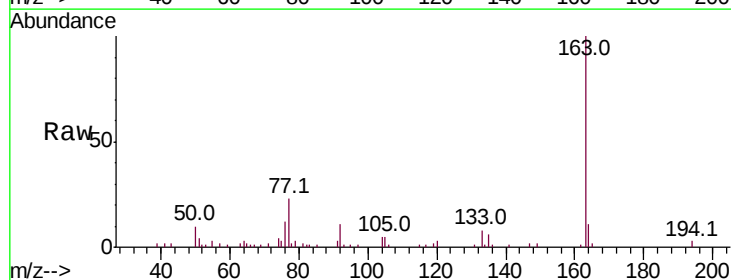
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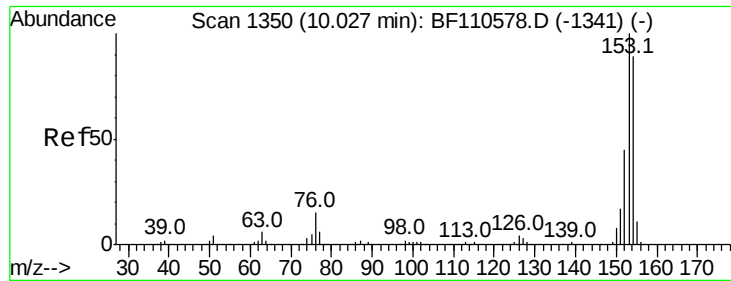
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#50
Dimethylphthalate
Concen: 5.227 ng
RT: 9.69 min Scan# 1292
Delta R.T. -0.02 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	3.2	4.8
164	10.9	8.1	12.1





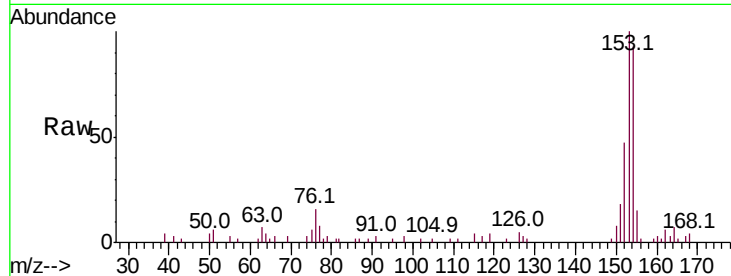
#52
Acenaphthene
Concen: 2.692 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Instrument :
BNA_F
ClientSampleId :
ES-RO-343

Tot Ion	Ratio	Lower	Upper
154	100		
153	108.0	90.1	135.1
152	50.7	43.4	65.2

Manual Integrations
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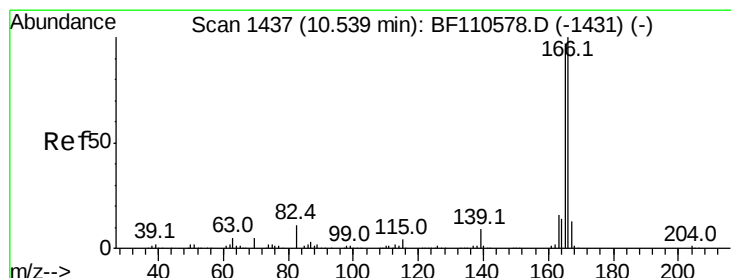
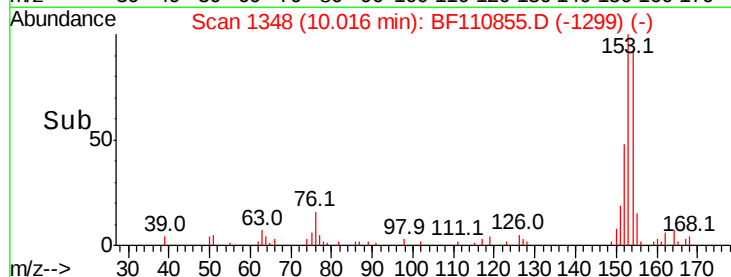
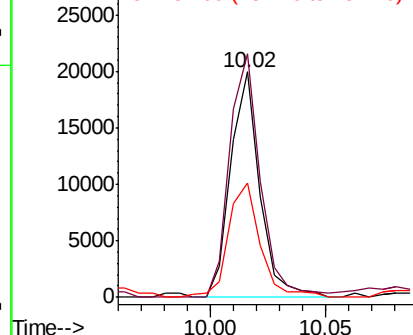


Abundance

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



#58
Fluorene
Concen: 3.624 ng
RT: 10.53 min Scan# 1436
Delta R.T. -0.01 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

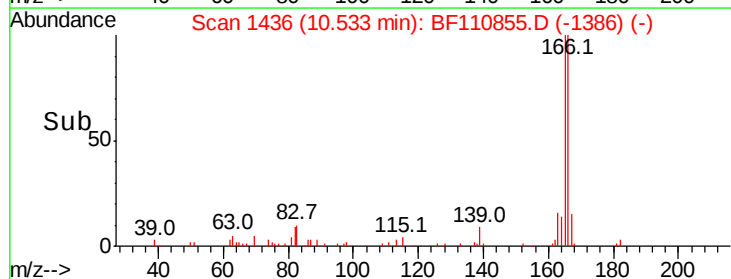
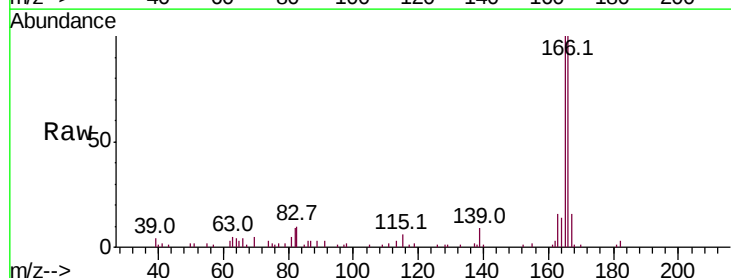
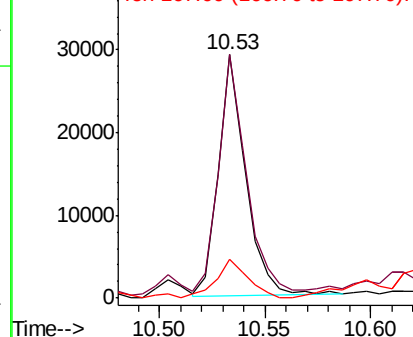
Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.9	78.6	117.8
167	16.1	10.8	16.2

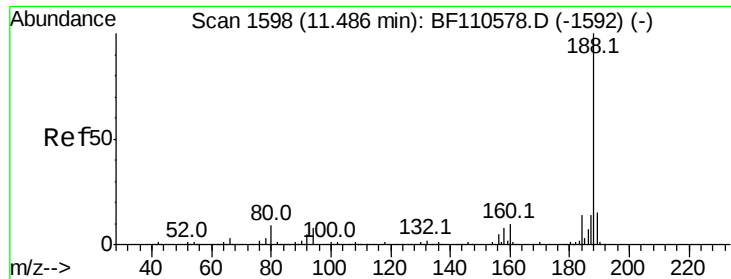
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

Instrument :

BNA_F

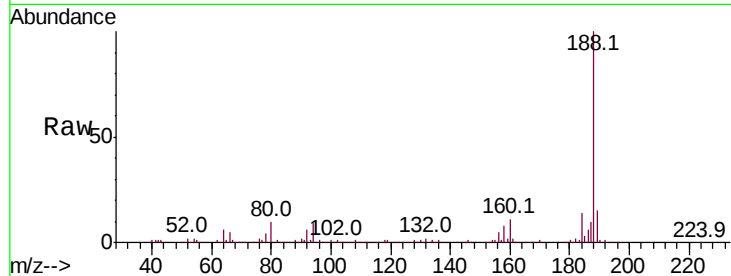
ClientSampleId :

ES-RO-343

Tot Ion:	188	Resp:	164756
Ion Ratio	Lower	Upper	
188	100		
94	9.4	7.2	10.8
80	10.1	7.9	11.9

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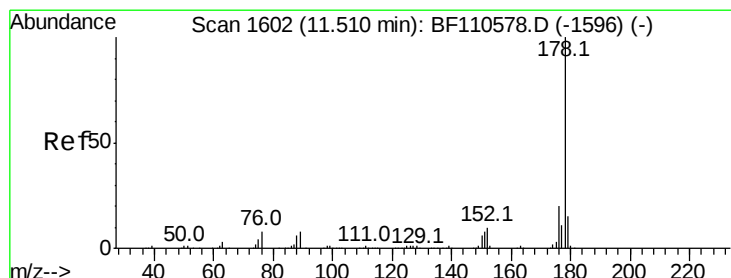
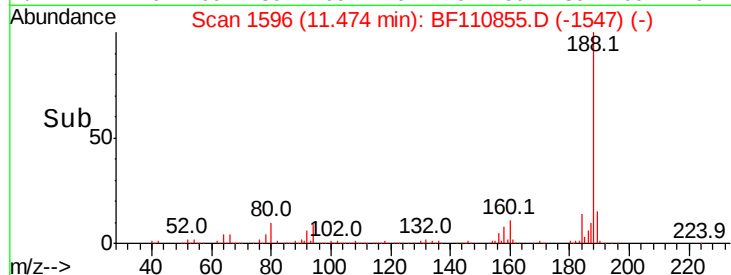
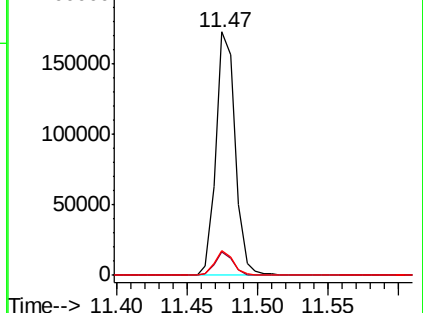
Sohil
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 27.943 ng

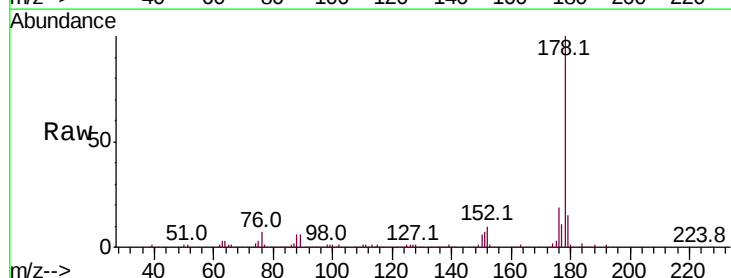
RT: 11.50 min Scan# 1601

Delta R.T. -0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

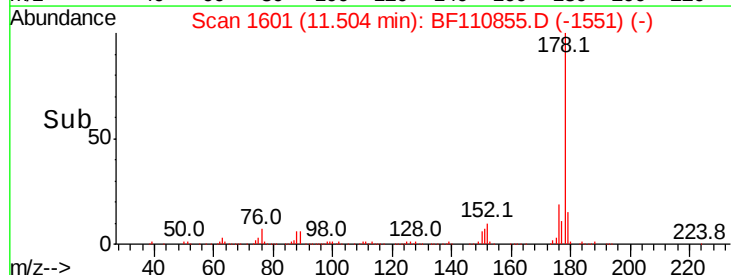
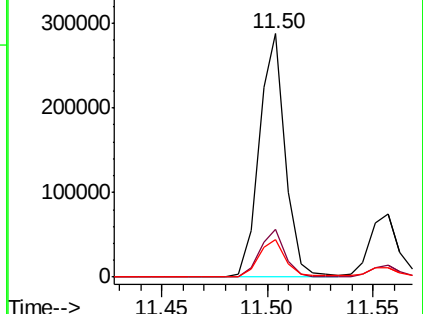
Tgt Ion:	178	Resp:	246647
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.5	23.3
179	15.3	12.5	18.7

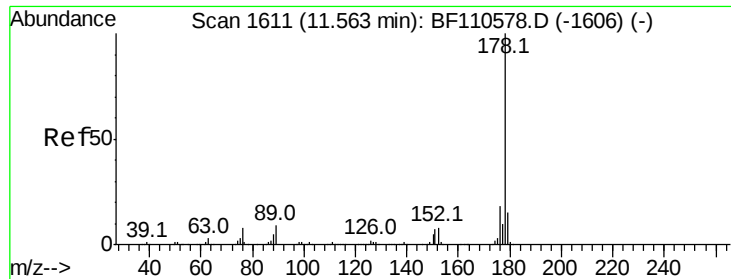


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





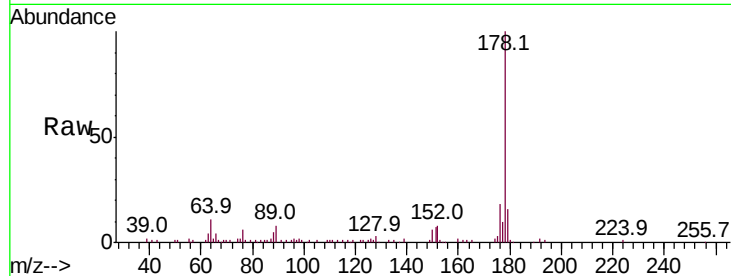
#72
 Anthracene
 Concen: 8.037 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF110855.D
 Acq: 19 Nov 2018 16:12

Instrument :
 BNA_F
 ClientSampleId :
 ES-RO-343

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.2
179	15.8	12.6	18.8

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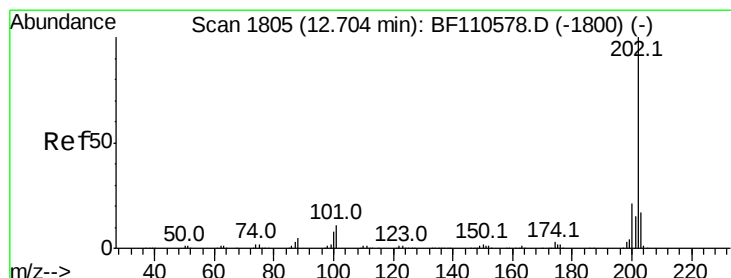
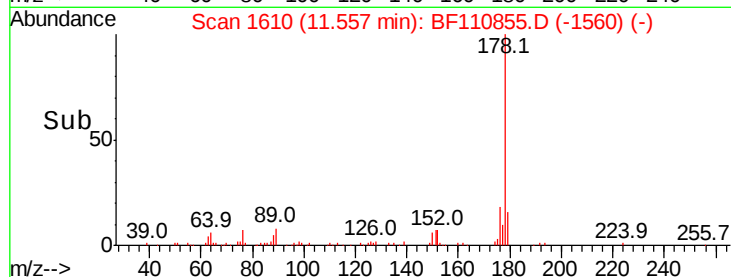
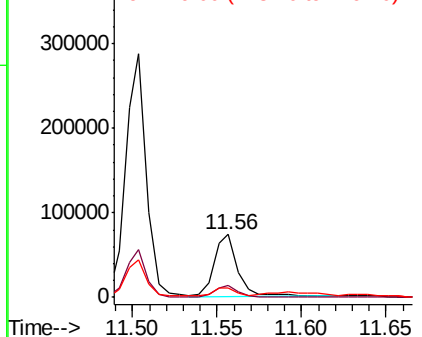


Abundance

Ion 178.00 (177.70 to 178.70): E

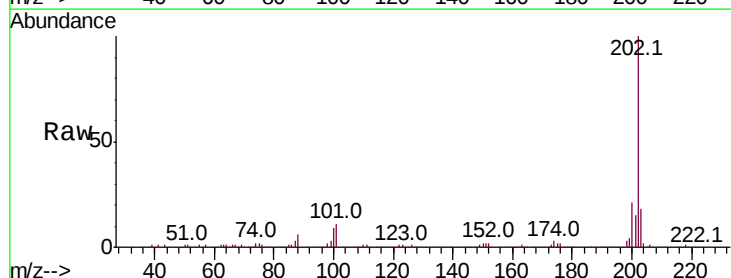
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75
 Fluoranthene
 Concen: 41.582 ng
 RT: 12.70 min Scan# 1804
 Delta R.T. -0.01 min
 Lab File: BF110855.D
 Acq: 19 Nov 2018 16:12

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.4
203	17.6	0.0	37.7

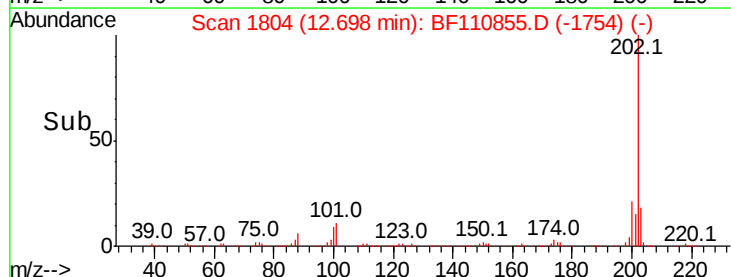
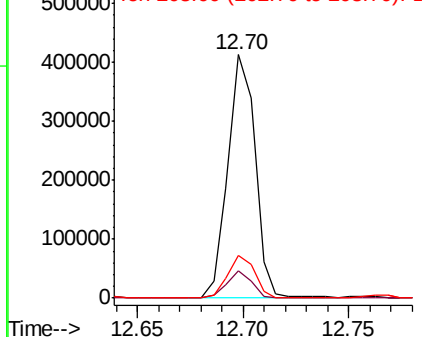


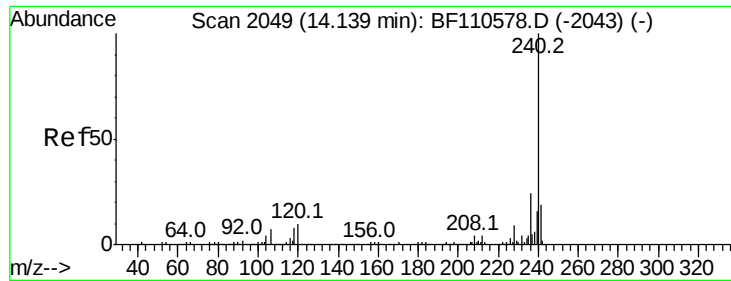
Abundance

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





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

Instrument :

BNA_F

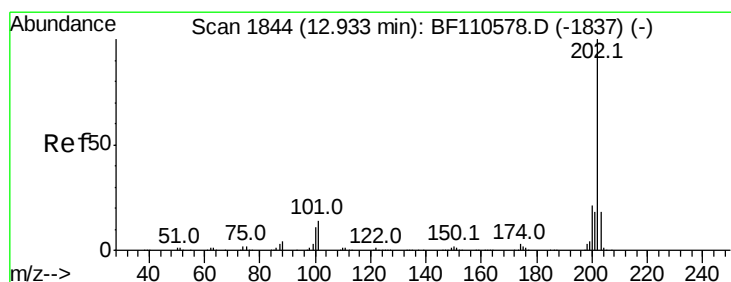
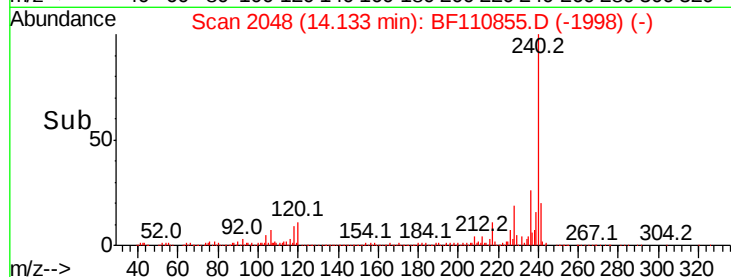
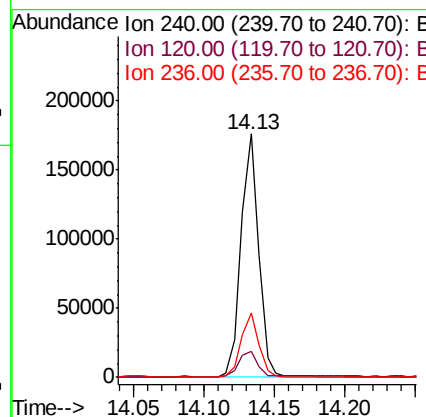
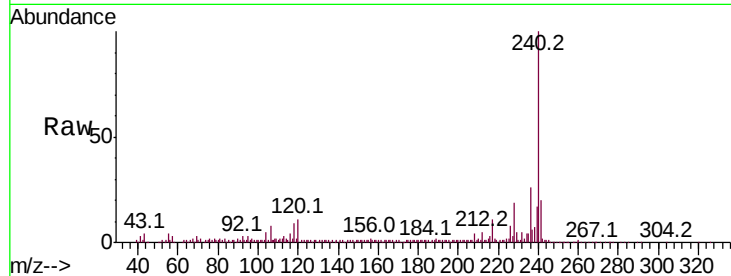
ClientSampleId :

ES-RO-343

Tot Ion:	240	Resp:	152855
Ion Ratio	Lower	Upper	
240	100		
120	10.8	8.3	12.5
236	26.5	21.2	31.8

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#78

Pyrene

Concen: 30.975 ng

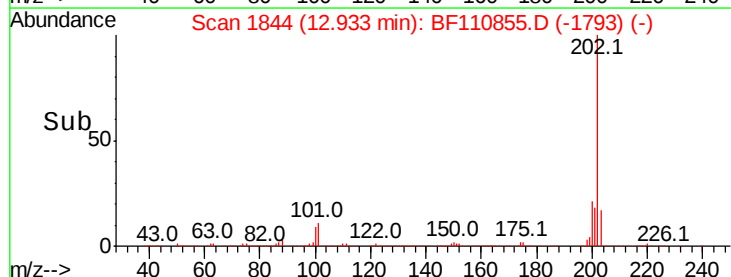
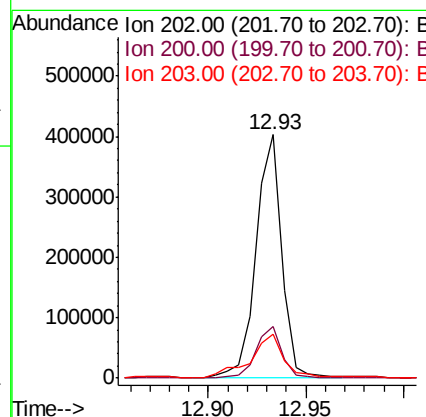
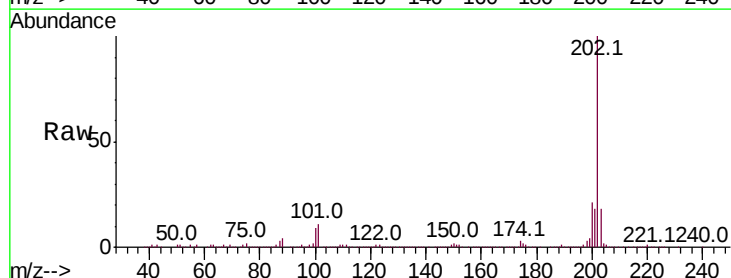
RT: 12.93 min Scan# 1844

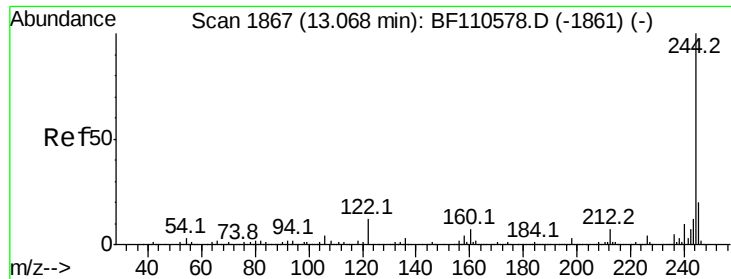
Delta R.T. 0.00 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

Tgt Ion:	202	Resp:	364560
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.8	26.6
203	18.3	14.2	21.4





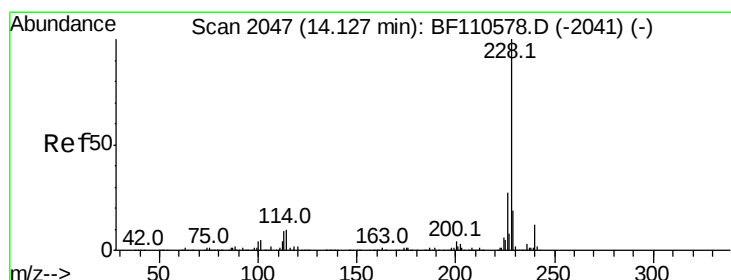
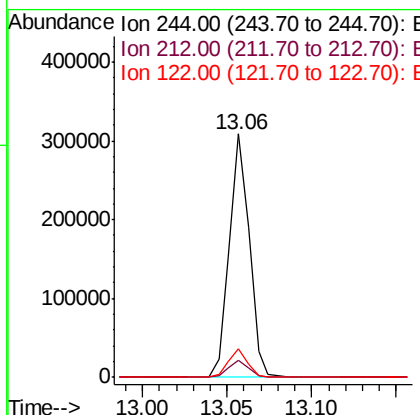
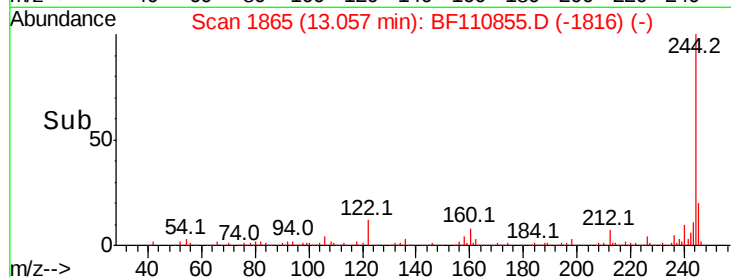
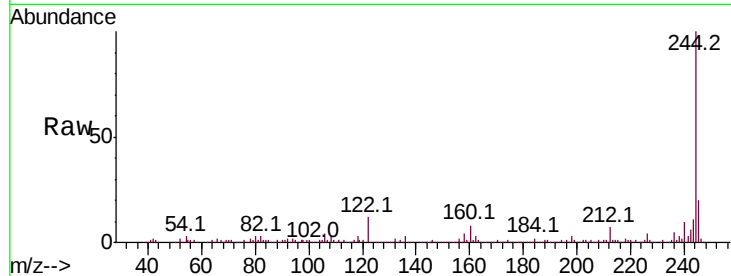
#79
 Terphenyl-d14
 Concen: 30.989 ng
 RT: 13.06 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: BF110855.D
 Acq: 19 Nov 2018 16:12

Instrument :
 BNA_F
 ClientSampleId :
 ES-RO-343

Tot Ion:	244	Resp:	252931
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.8	8.8
122	11.8	8.7	13.1

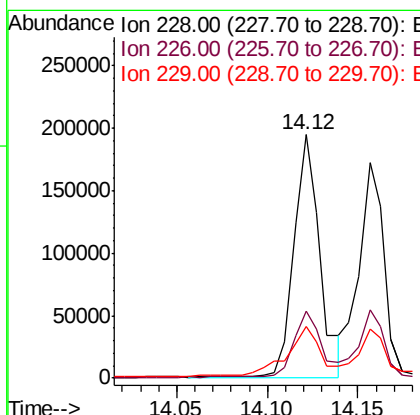
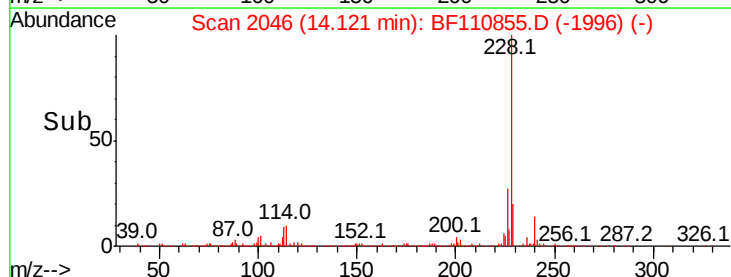
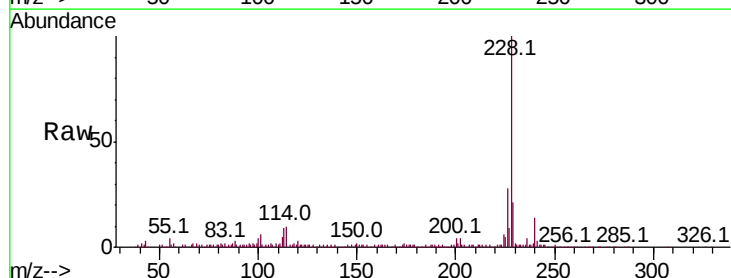
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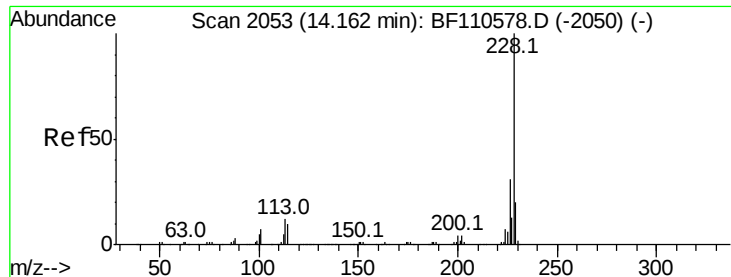
Sohil
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#81
 Benzo(a)anthracene
 Concen: 21.339 ng
 RT: 14.12 min Scan# 2046
 Delta R.T. -0.01 min
 Lab File: BF110855.D
 Acq: 19 Nov 2018 16:12

Tgt Ion:	228	Resp:	194961
Ion Ratio	Lower	Upper	
228	100		
226	27.7	22.1	33.1
229	21.0	15.6	23.4





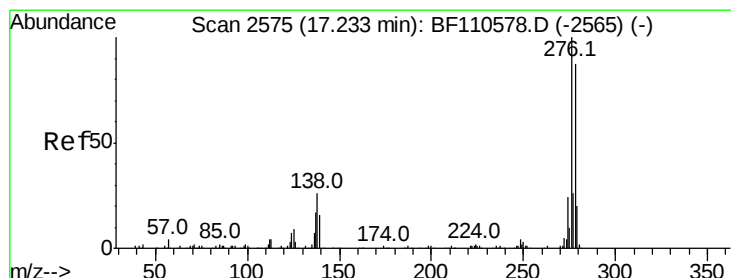
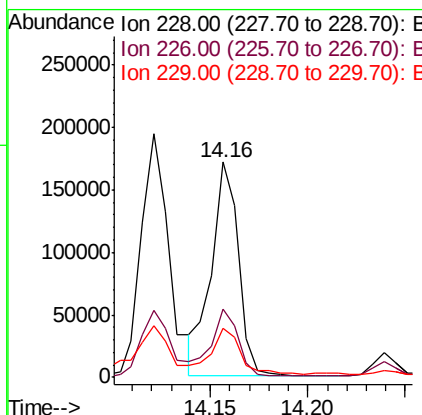
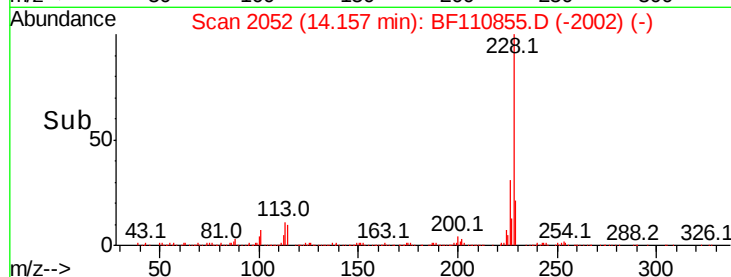
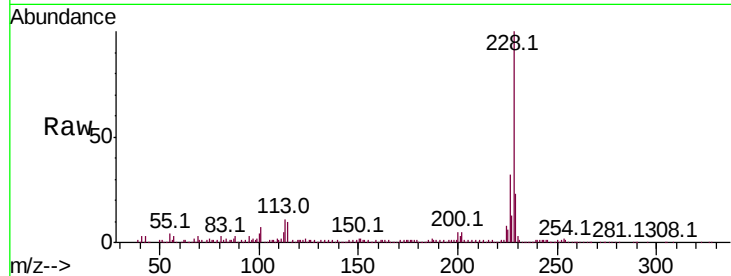
#83
Chrysene
Concen: 19.206 ng
RT: 14.16 min Scan# 2052
Delta R.T. -0.01 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Instrument :
BNA_F
ClientSampleId :
ES-RO-343

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.7	37.1
229	22.7	15.9	23.9

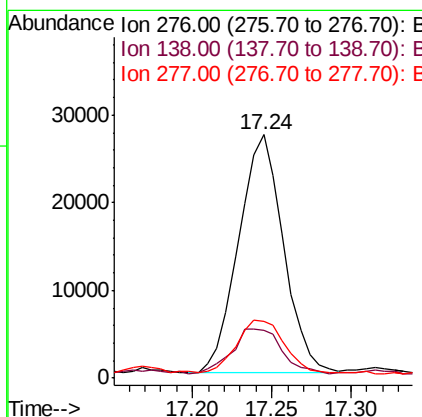
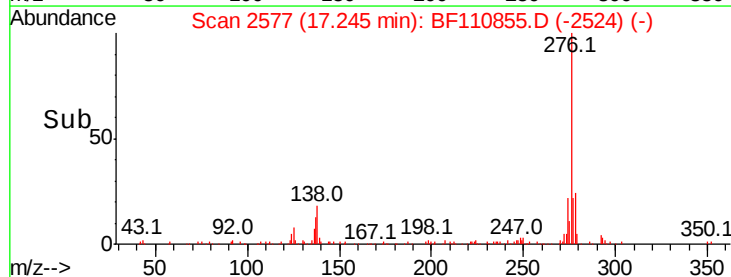
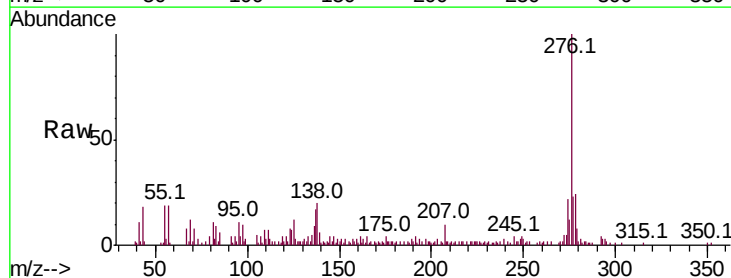
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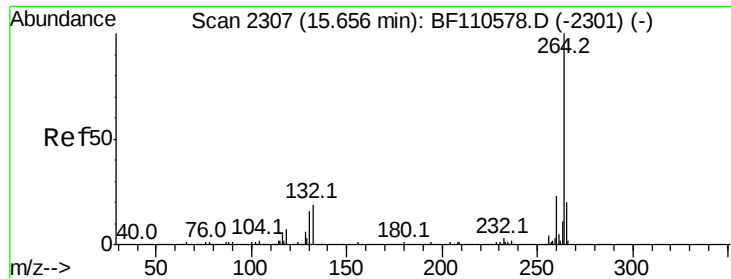
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#86
Indeno(1,2,3-cd)pyrene
Concen: 8.587 ng
RT: 17.24 min Scan# 2577
Delta R.T. 0.01 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.2	18.5	27.7
277	23.6	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.66 min Scan# 2308

Delta R.T. 0.01 min

Lab File: BF110855.D

Acq: 19 Nov 2018 16:12

Instrument :

BNA_F

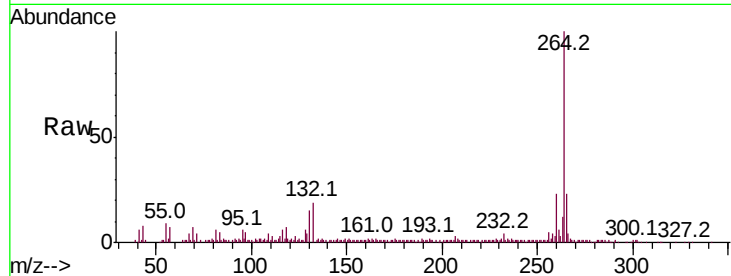
ClientSampled :

ES-RO-343

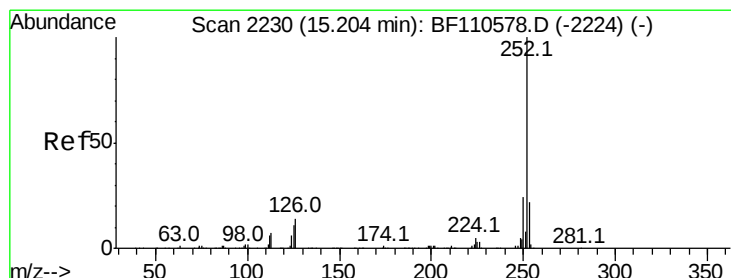
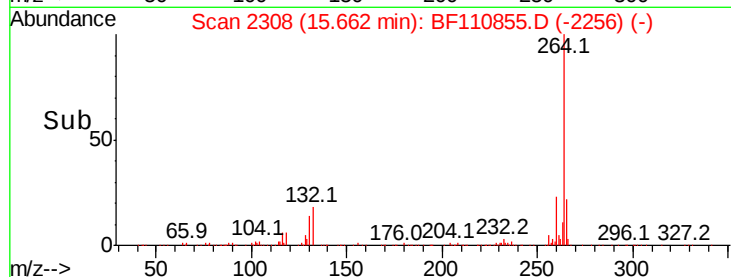
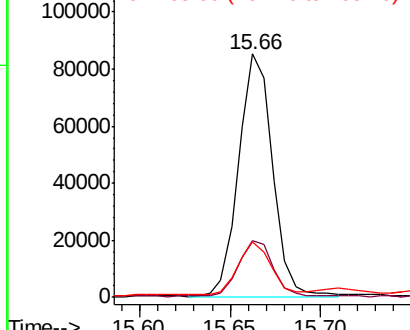
Tot Ion:	264	Resp:	110183
Ion Ratio	Lower	Upper	
264	100		
260	23.4	18.7	28.1
265	22.8	16.7	25.1

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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



#88

Benzo(b)fluoranthene

Concen: 24.463 ng m

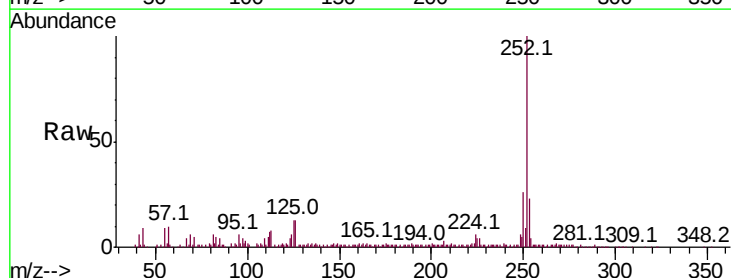
RT: 15.21 min Scan# 2231

Delta R.T. 0.01 min

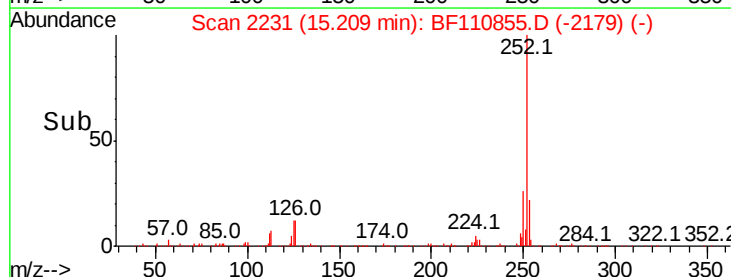
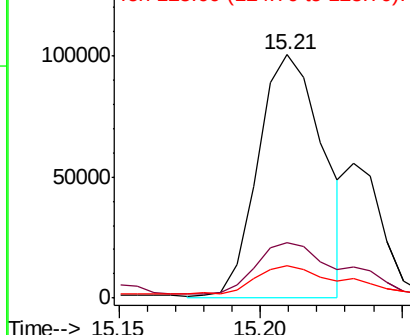
Lab File: BF110855.D

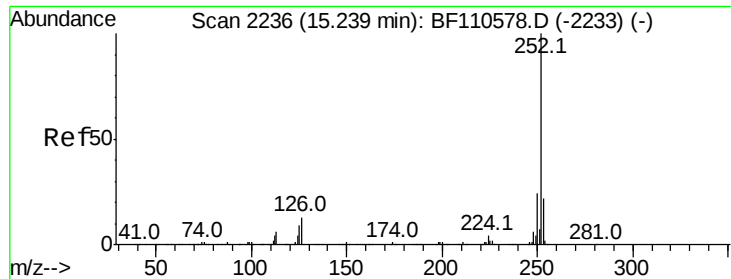
Acq: 19 Nov 2018 16:12

Tgt Ion:	252	Resp:	161251
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.2	25.8
125	13.4	8.2	12.4#



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





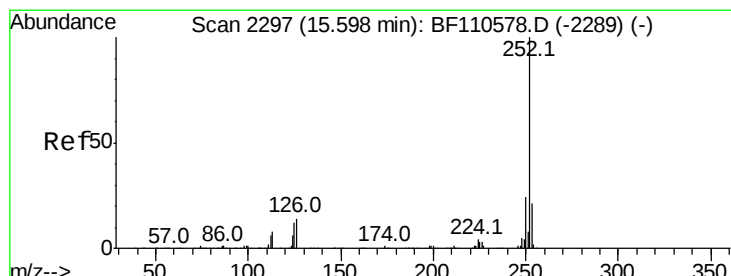
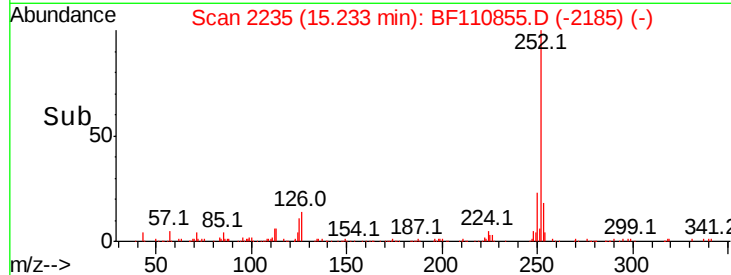
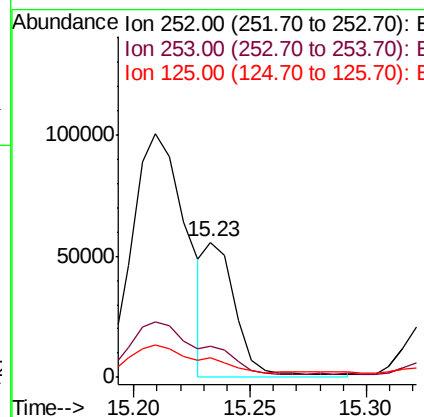
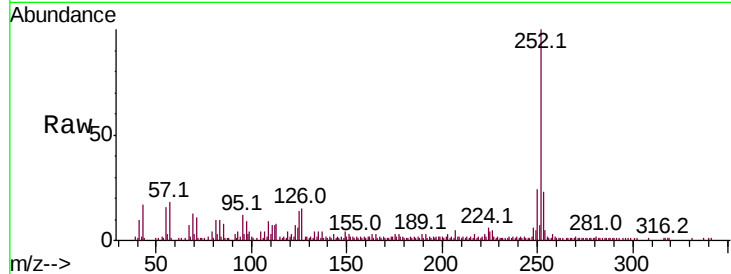
#89
Benzo(k)fluoranthene
Concen: 8.006 ng m
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Instrument :
BNA_F
ClientSampled :
ES-RO-343

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.2	25.8
125	14.3	7.4	11.0

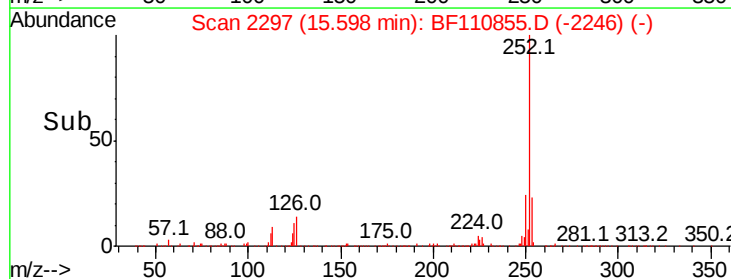
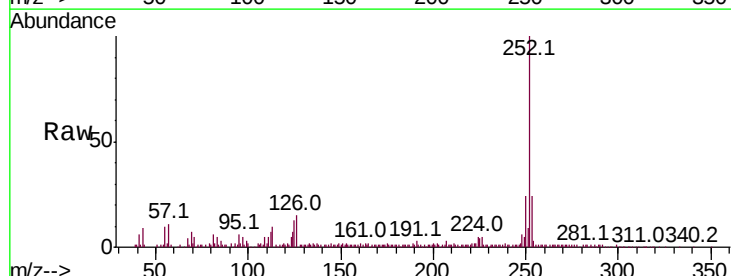
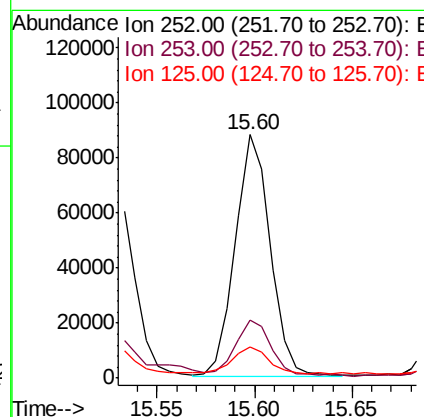
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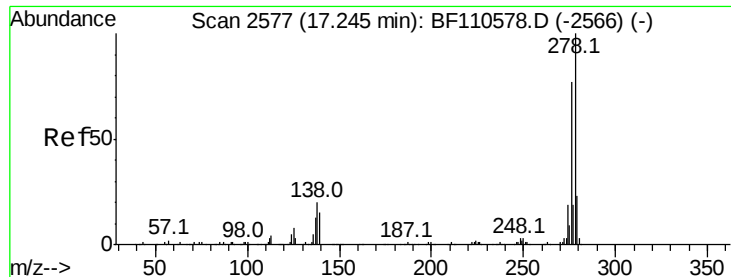
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#90
Benzo(a)pyrene
Concen: 18.282 ng
RT: 15.60 min Scan# 2297
Delta R.T. 0.00 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.4
125	12.8	9.0	13.6





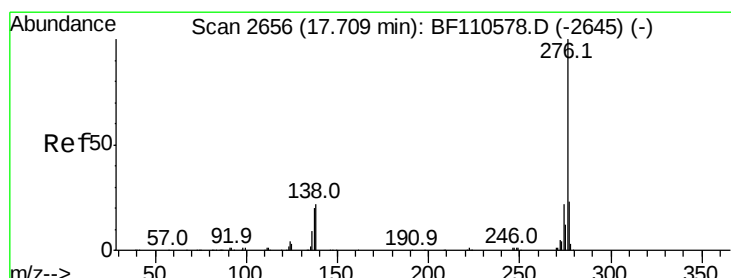
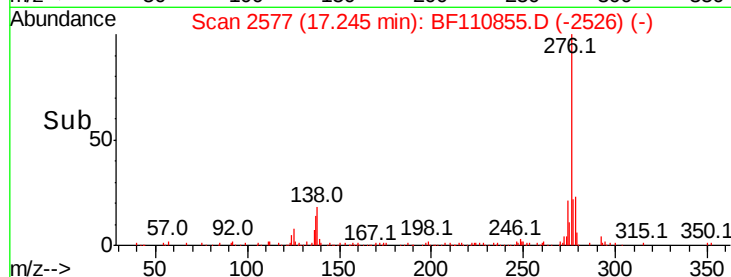
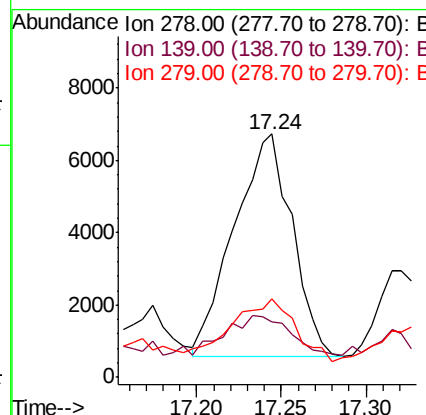
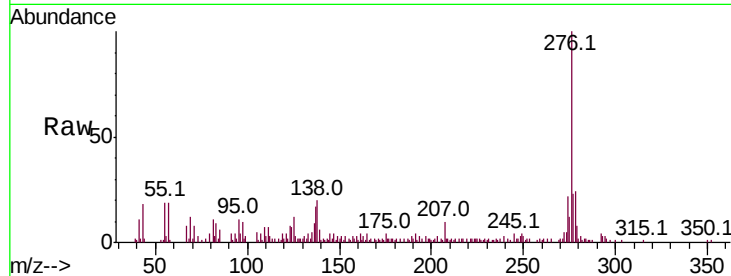
#91
Dibenzo(a,h)anthracene
Concen: 2.906 ng
RT: 17.24 min Scan# 2577
Delta R.T. 0.00 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Instrument :
BNA_F
ClientSampleId :
ES-RO-343

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.0	12.7	19.1#
279	32.0	19.0	28.4#

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#92
Benzo(g,h,i)perylene
Concen: 10.321 ng
RT: 17.73 min Scan# 2659
Delta R.T. 0.02 min
Lab File: BF110855.D
Acq: 19 Nov 2018 16:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.8	28.2
138	22.4	16.0	24.0

