

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
 Data File : BF100995.D
 Acq On : 29 Nov 2017 22:59
 Operator : SJ/JU
 Sample : I6610-02 10X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-3(0-2)-20171127

Manual Integrations
 APPROVED

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Quant Time: Nov 30 07:24:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 15:21:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	66793	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	240247	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	92407	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	162429	20.00	ng	0.00
75) Chrysene-d12	14.03	240	126856	20.00	ng	0.00
86) Perylene-d12	15.51	264	101263	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	27104	6.50	ng	-0.01
7) Phenol-d6	6.48	99	31417	6.11	ng	-0.01
23) Nitrobenzene-d5	7.41	82	17465	4.81	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	5985	6.36	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	39758	6.55	ng	-0.01
78) Terphenyl-d14	12.96	244	33976	6.15	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	53411	4.616	ng	99
37) 2-Methylnaphthalene	8.85	142	22217	2.892	ng	96
48) Acenaphthylene	9.75	152	99248	10.329	ng	98
51) Acenaphthene	9.92	154	58144	9.950	ng	99
54) Dibenzofuran	10.10	168	57572	7.029	ng	94
57) Fluorene	10.44	166	83021	13.837	ng	98
70) Phenanthrene	11.42	178	991522	115.939	ng	98
71) Anthracene	11.46	178	273581	31.531	ng	99
72) Carbazole	11.61	167	85042	10.622	ng	99
74) Fluoranthene	12.62	202	1606626	177.261	ng	96
77) Pyrene	12.84	202	1402474	155.093	ng	100
80) Benzo(a)anthracene	14.03	228	763867	99.993	ng	98
82) Chrysene	14.06	228	651598	88.083	ng	97
85) Indeno(1,2,3-cd)pyrene	17.00	276	302790	50.604	ng	# 86
87) Benzo(b)fluoranthene	15.09	252	700712m	116.799	ng	
88) Benzo(k)fluoranthene	15.11	252	247792m	43.714	ng	
89) Benzo(a)pyrene	15.46	252	477661	89.810	ng	97
90) Dibenzo(a,h)anthracene	17.00	278	72914	16.763	ng	95
91) Benzo(a,h,i)perylene	17.46	276	272728	64.054	ng	# 90

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

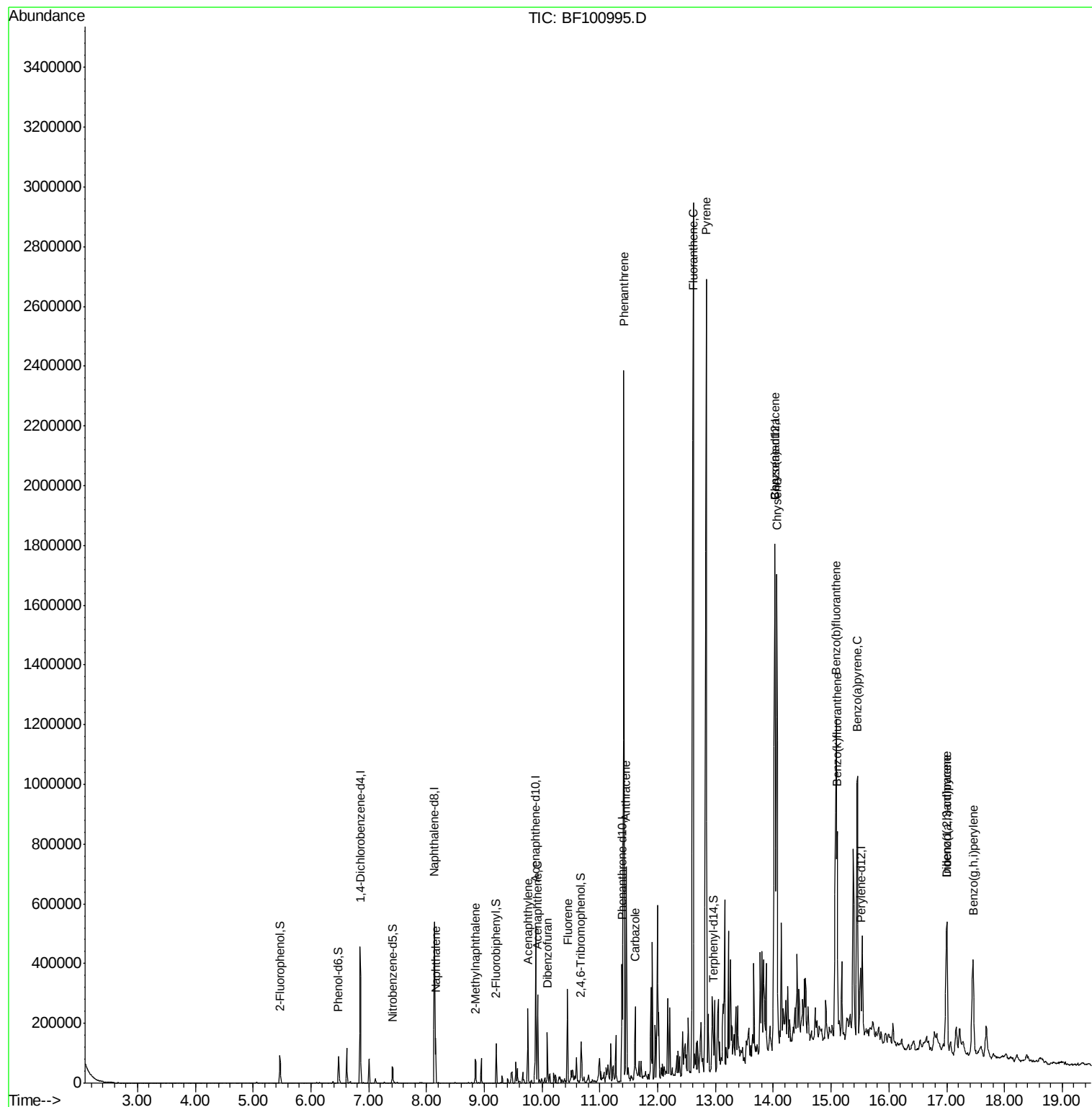
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
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#1

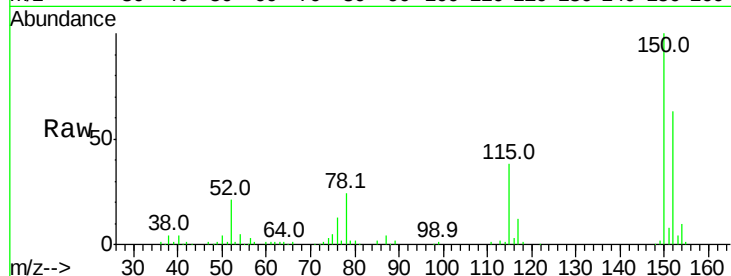
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Instrument :
BNA_F
ClientSampleId :
SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.7	124.6	186.8
115	60.1	50.1	75.1

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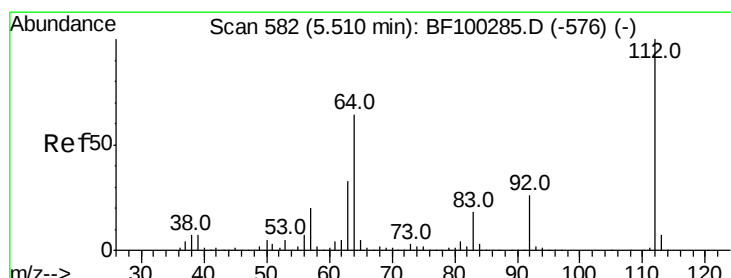
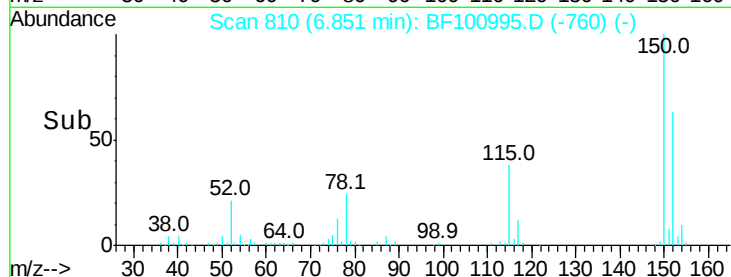
Abundance

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

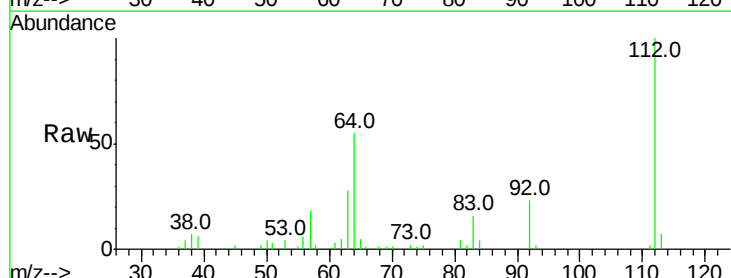
Time-->



#5

2-Fluorophenol
Concen: 6.505 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	47.9	71.9
63	27.7	23.7	35.5



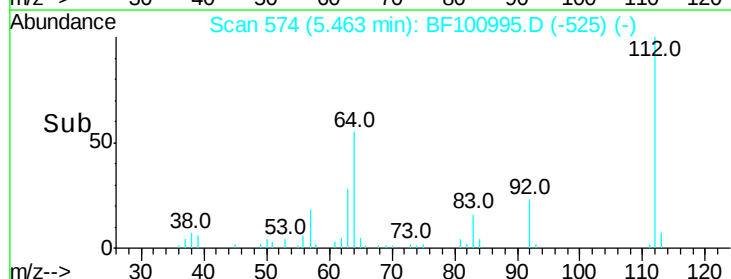
Abundance

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: 6.114 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Instrument :

BNA_F

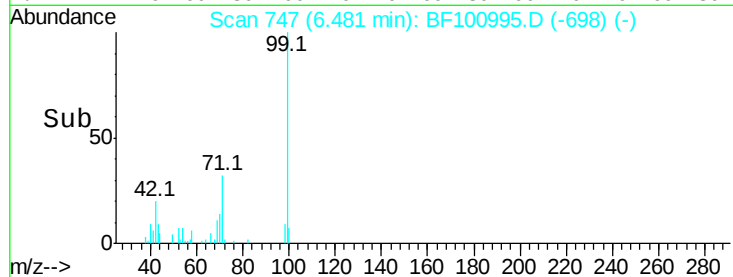
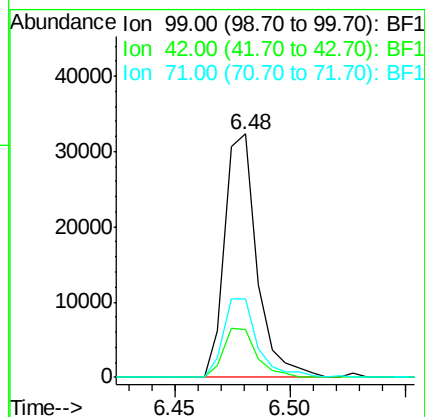
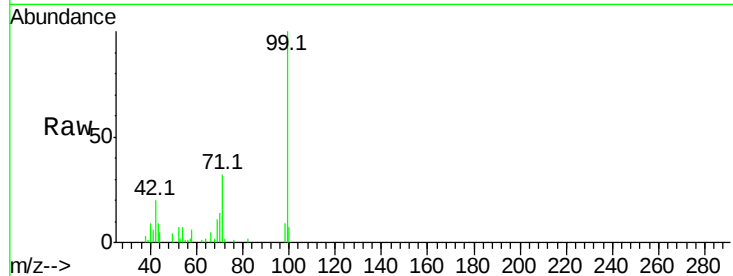
ClientSampleId :

SB-3(0-2)-20171127

Tot Ion:	99	Resp:	31417
Ion Ratio	Lower	Upper	
99	100		
42	19.6	14.5	21.7
71	32.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

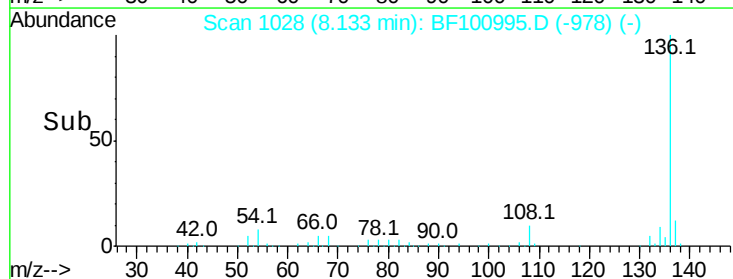
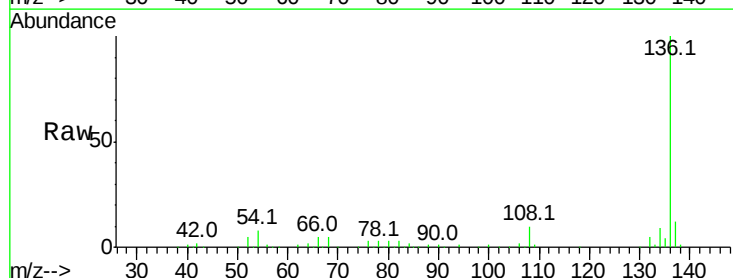
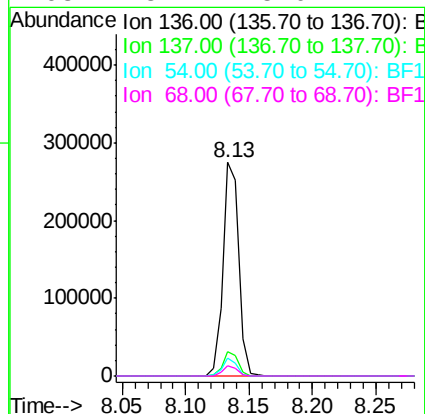
RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Tgt Ion:	136	Resp:	240247
Ion Ratio	Lower	Upper	
136	100		
137	11.6	8.9	13.3
54	8.3	6.6	9.8
68	5.1	5.0	7.4





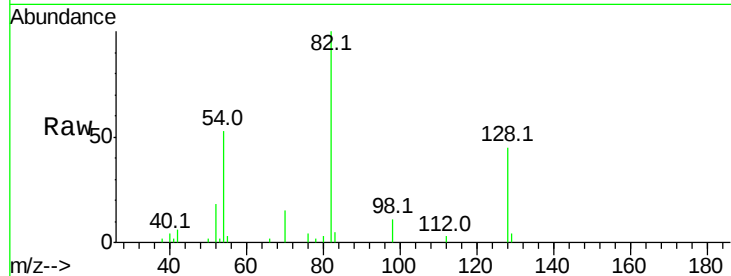
#23
Nitrobenzene-d5
Concen: 4.806 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.02 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Instrument :
BNA_F
ClientSampleId :
SB-3(0-2)-20171127

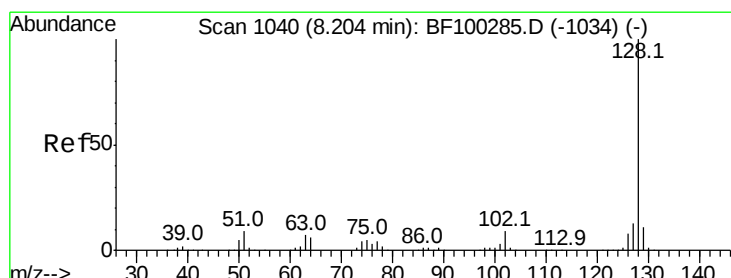
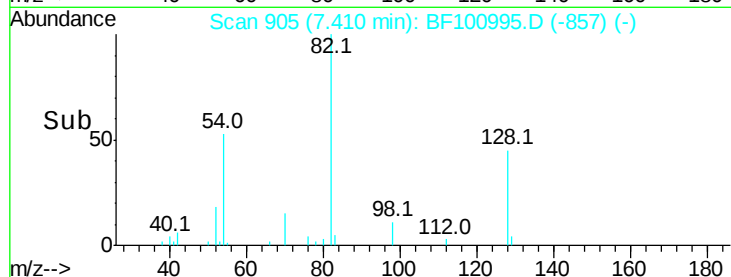
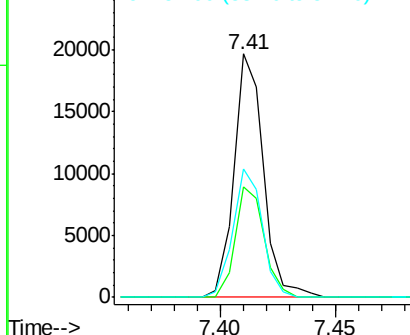
Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.1	54.1
54	52.8	41.4	62.2

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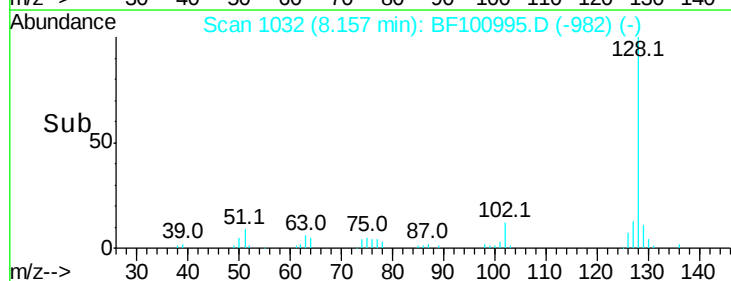
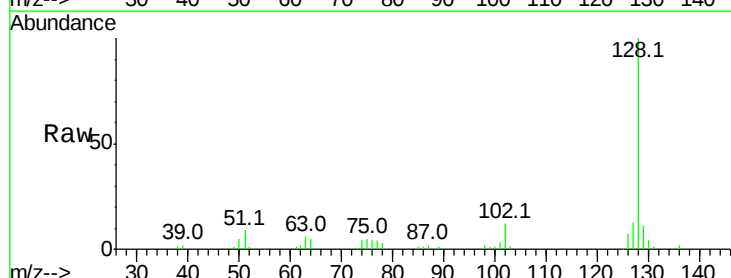
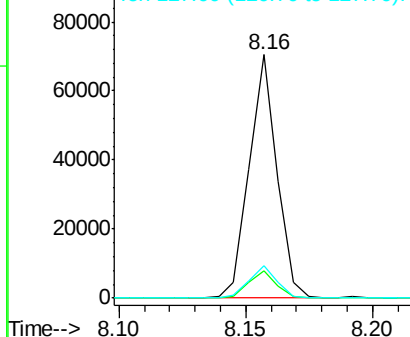
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

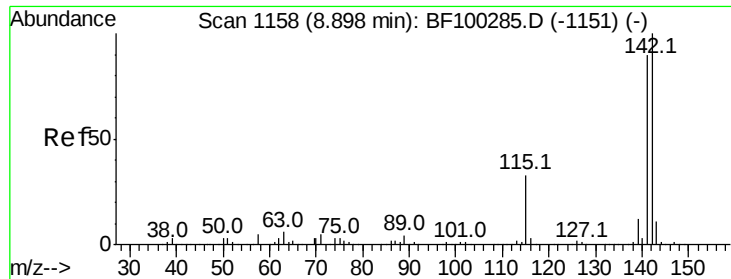


#31
Naphthalene
Concen: 4.616 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.2	10.9	16.3

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





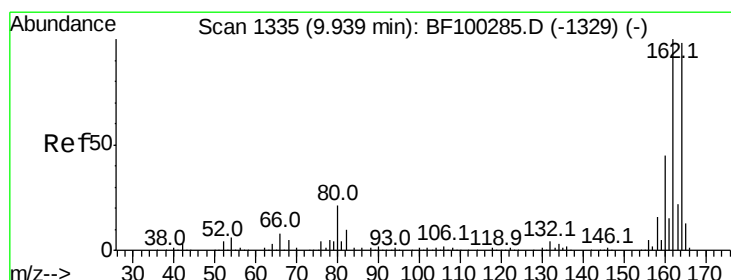
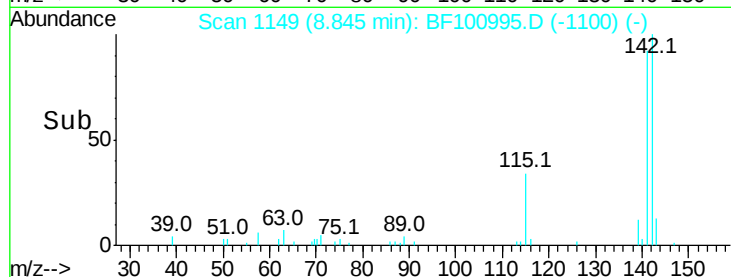
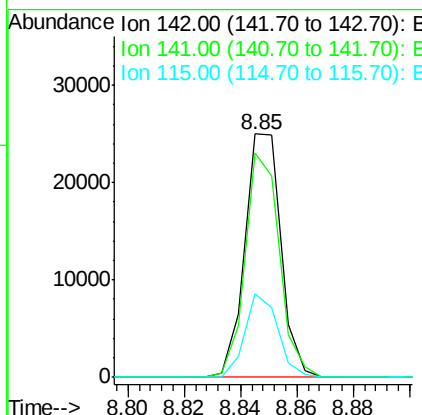
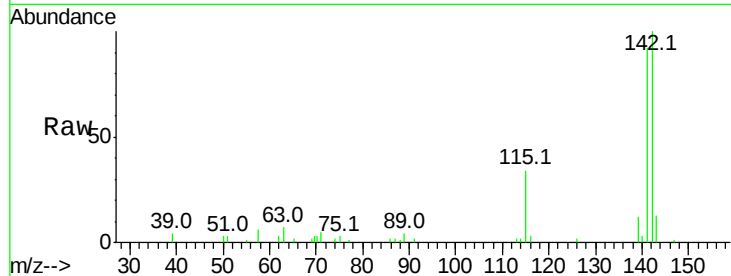
#37
2-Methylnaphthalene
Concen: 2.892 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Instrument :
BNA_F
ClientSampleId :
SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.3	70.8	106.2
115	34.1	26.1	39.1

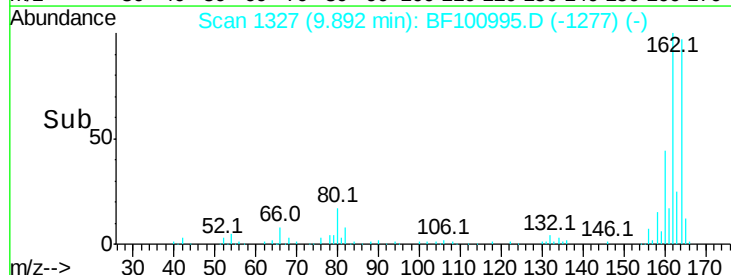
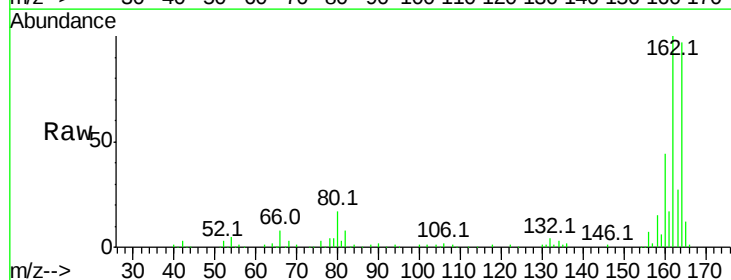
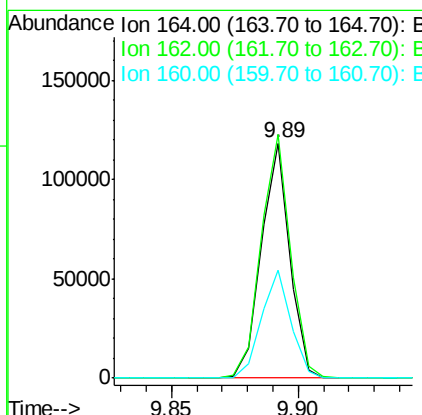
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.1	129.1
160	45.7	38.3	57.5





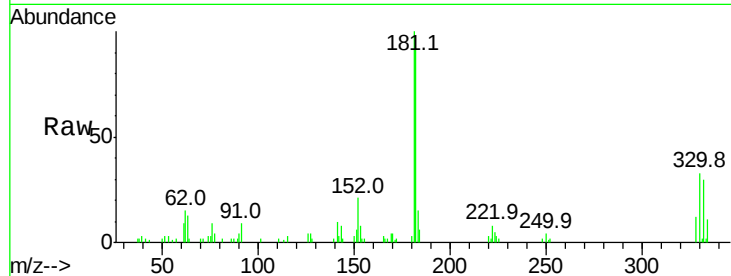
#41
 2,4,6-Tribromophenol
 Concen: 6.356 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF100995.D
 Acq: 29 Nov 2017 22:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.0	115.6
141	37.1	29.9	44.9

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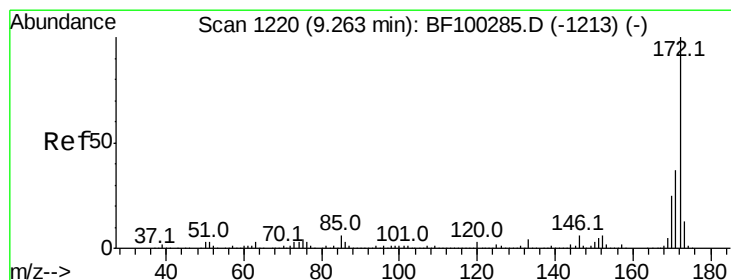
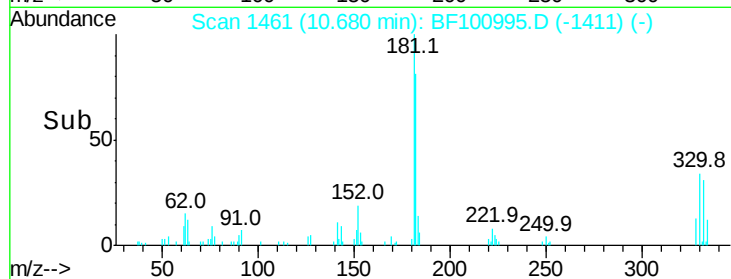
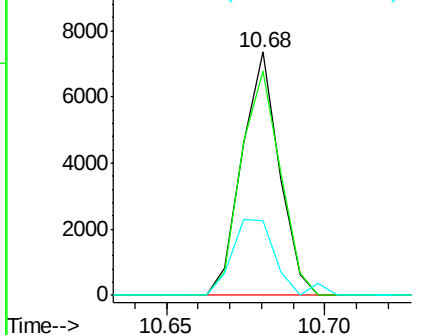


Abundance

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: 6.551 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF100995.D
 Acq: 29 Nov 2017 22:59

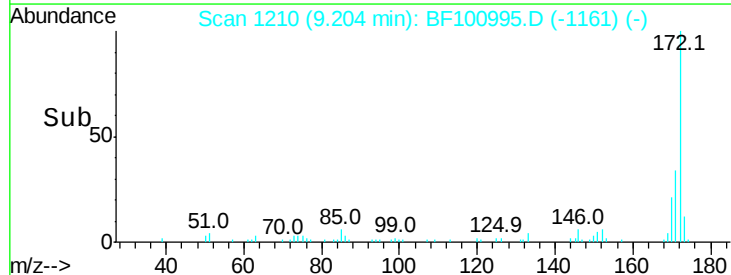
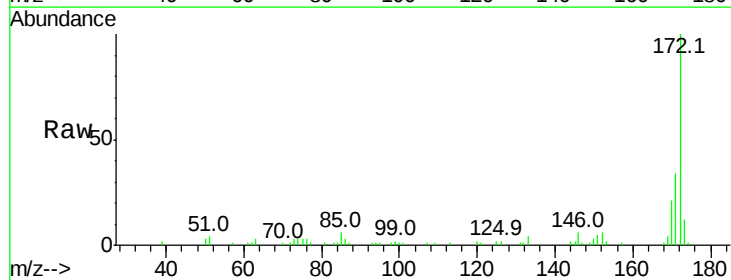
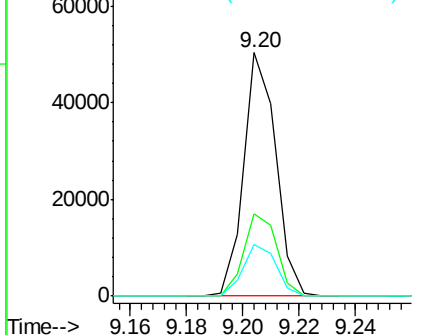
Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.7	29.7	44.5
170	21.0	19.6	29.4

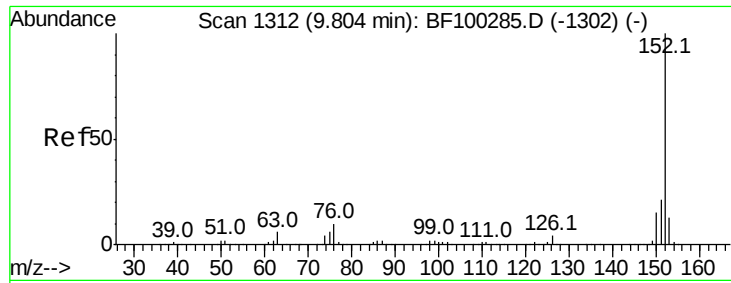
Abundance

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





#48

Acenaphthylene

Concen: 10.329 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Instrument :

BNA_F

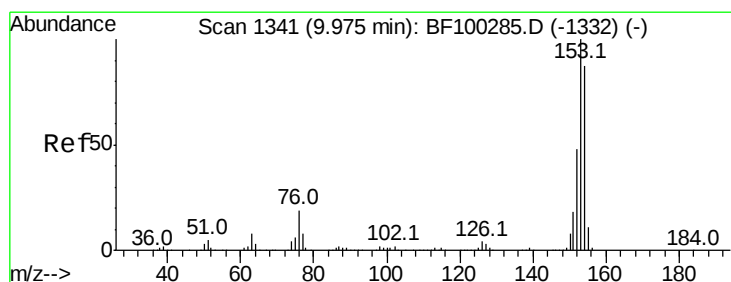
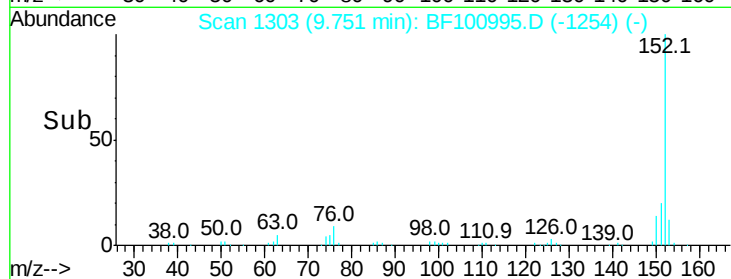
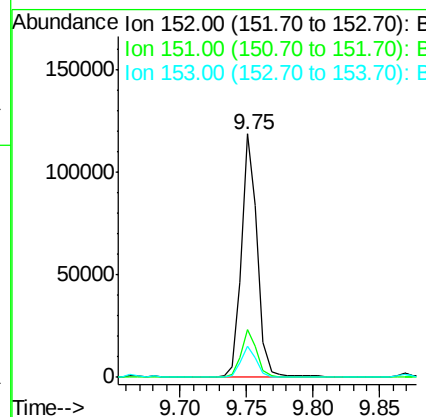
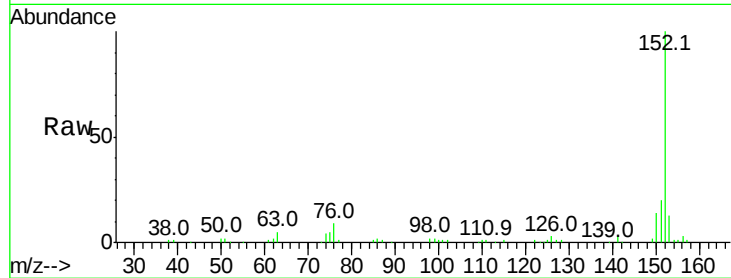
ClientSampleId :

SB-3(0-2)-20171127

Tot Ion:	152	Resp:	99248
Ion Ratio	Lower	Upper	
152	100		
151	19.6	16.3	24.5
153	12.8	10.7	16.1

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#51

Acenaphthene

Concen: 9.950 ng

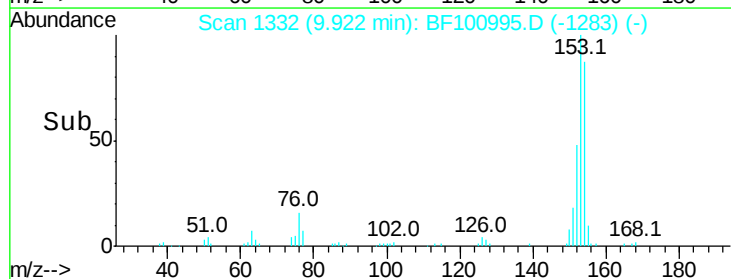
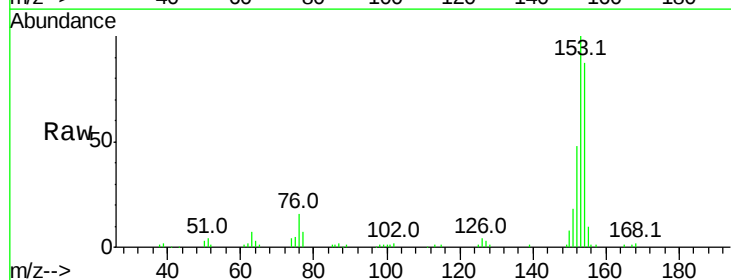
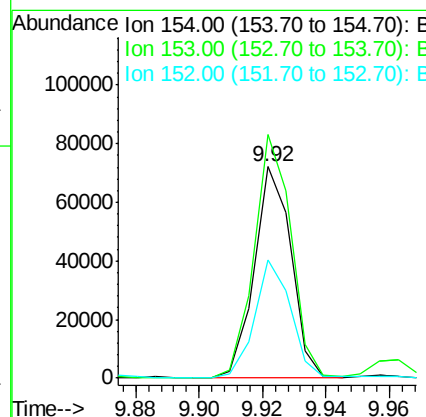
RT: 9.92 min Scan# 1332

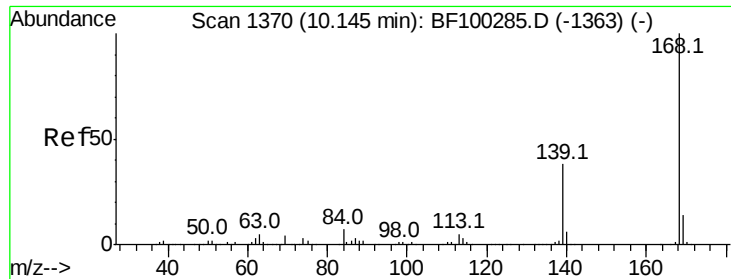
Delta R.T. -0.01 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Tgt Ion:	154	Resp:	58144
Ion Ratio	Lower	Upper	
154	100		
153	115.1	91.2	136.8
152	55.7	43.8	65.8





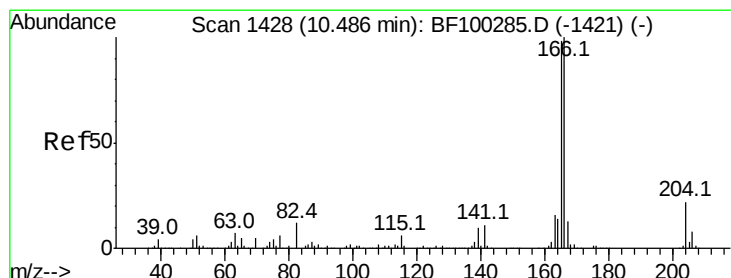
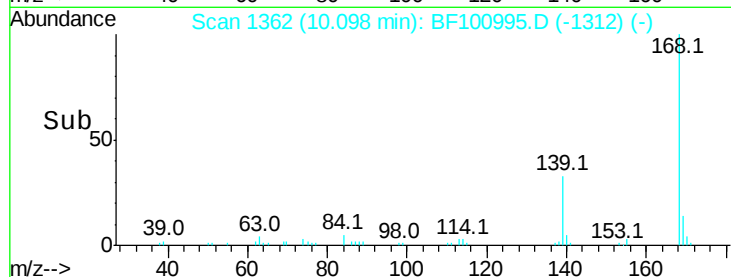
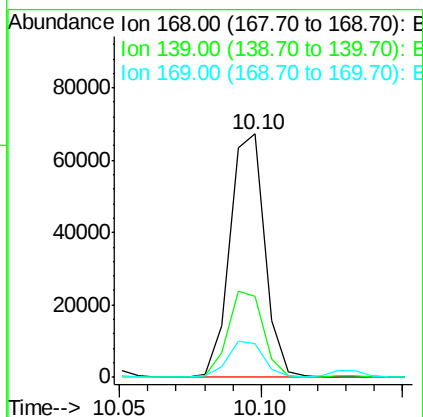
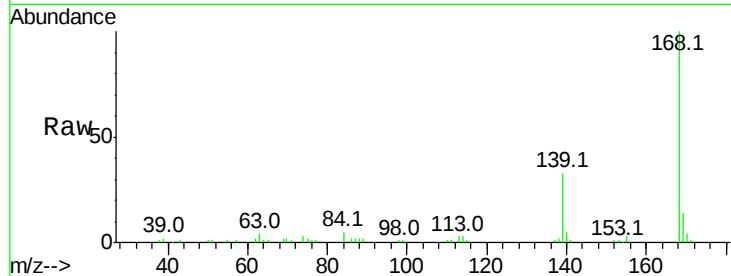
#54
Dibenzenofuran
Concen: 7.029 ng
RT: 10.10 min Scan# 1362
Delta R.T. -0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Instrument :
BNA_F
ClientSampleId :
SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
168	100		
139	33.2	30.1	45.1
169	14.0	10.9	16.3

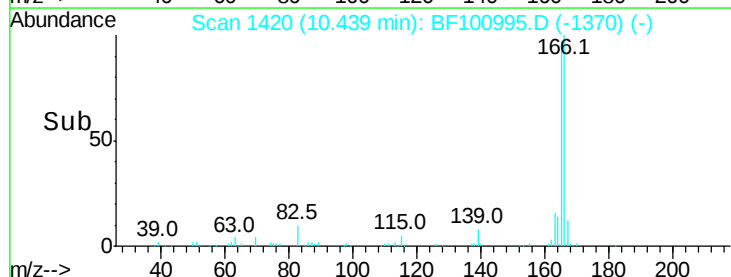
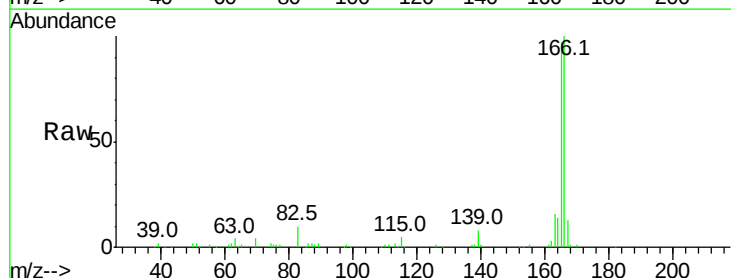
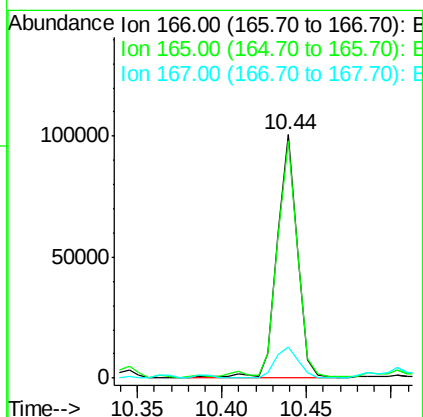
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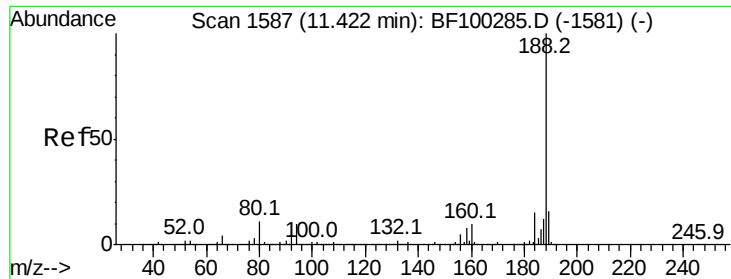
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#57
Fluorene
Concen: 13.837 ng
RT: 10.44 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.5	79.8	119.8
167	12.6	10.6	16.0





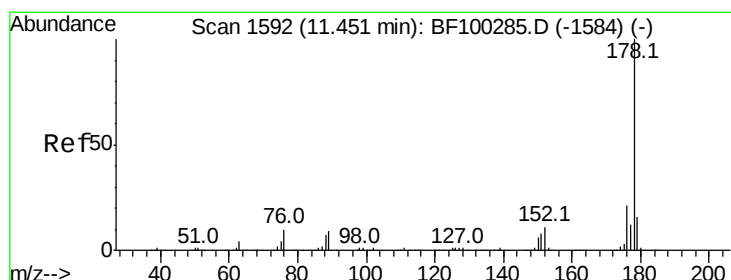
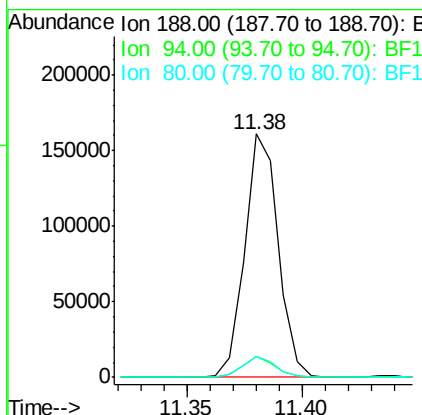
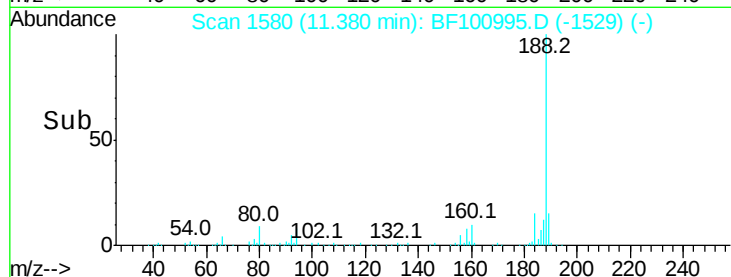
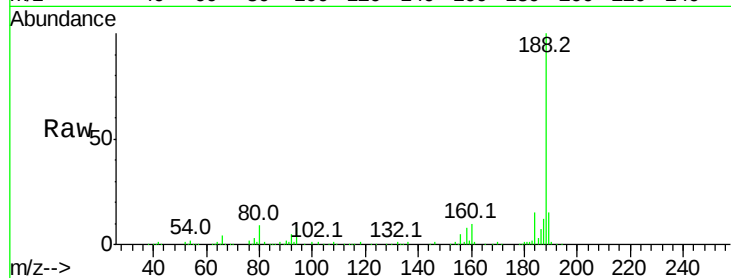
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.00 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Instrument :
BNA_F
ClientSampleId :
SB-3(0-2)-20171127

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.5	8.5	12.7#
80	8.7	9.2	13.8#

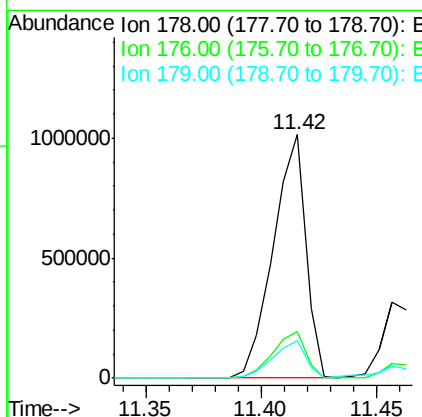
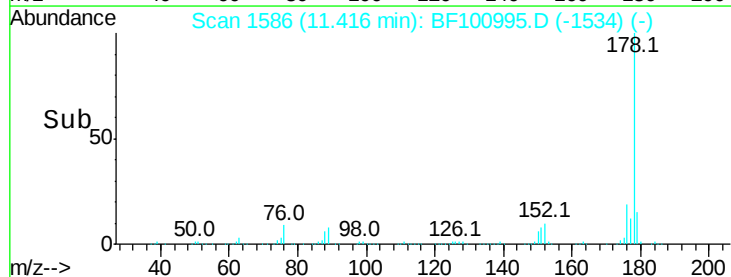
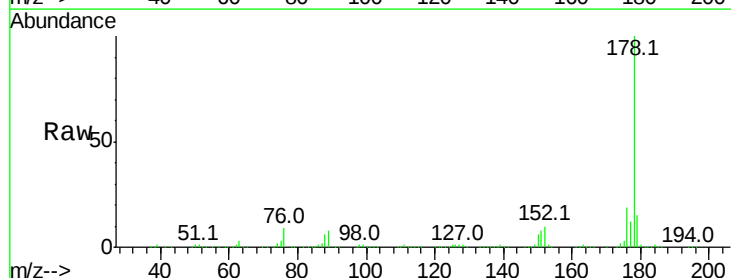
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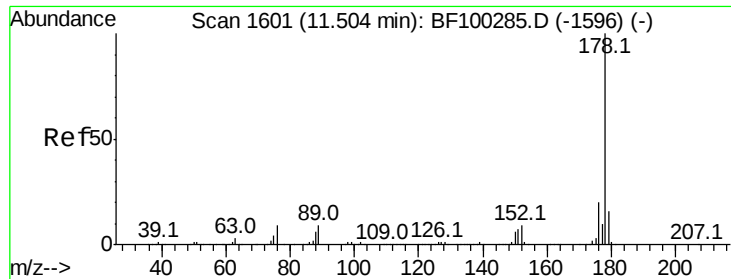
Sohil
11/30/2017 4:30:17 PM



#70
Phenanthrene
Concen: 115.939 ng
RT: 11.42 min Scan# 1586
Delta R.T. 0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

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





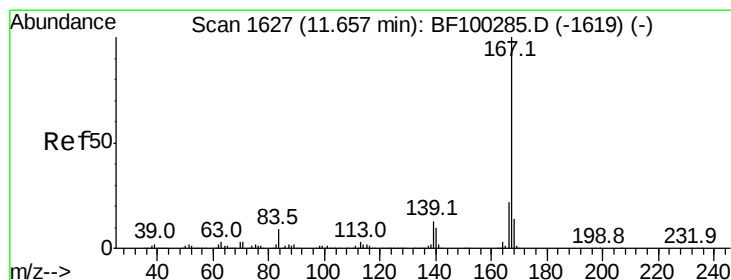
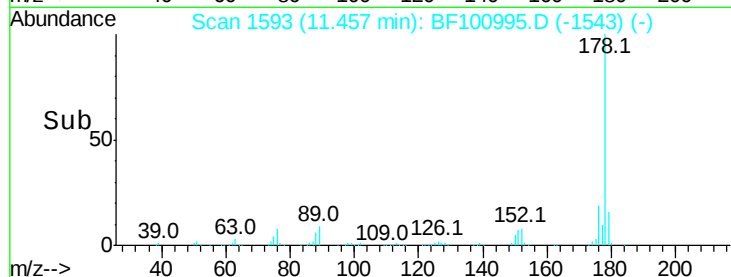
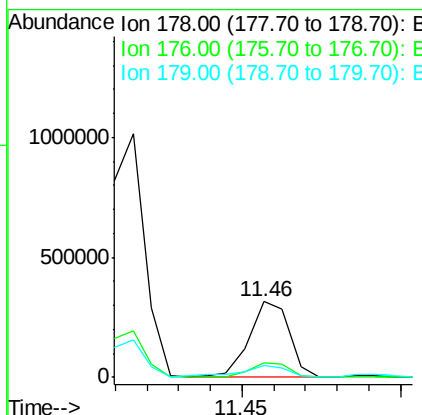
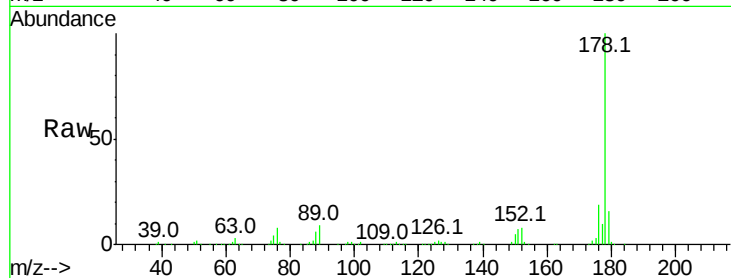
#71
 Anthracene
 Concen: 31.531 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF100995.D
 Acq: 29 Nov 2017 22:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.7	12.6	19.0

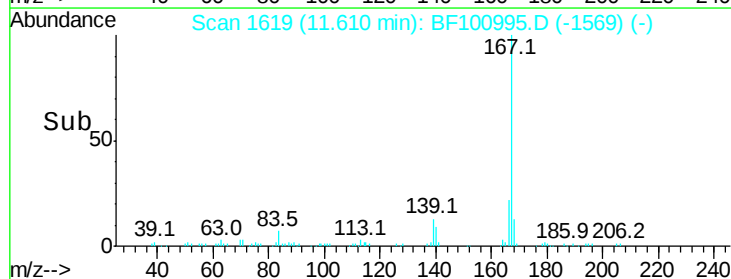
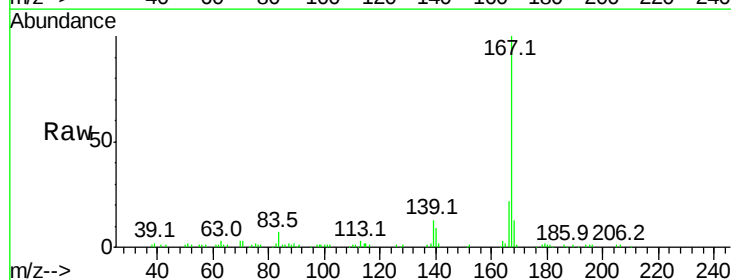
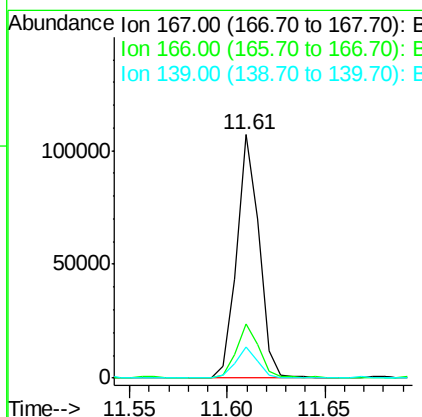
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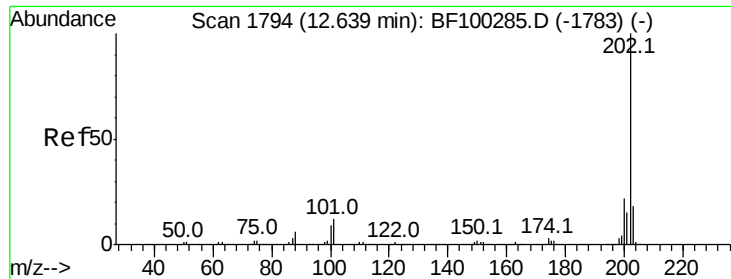
Sohil
 11/30/2017 4:30:17 PM



#72
 Carbazole
 Concen: 10.622 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BF100995.D
 Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.6	26.4
139	12.7	10.9	16.3





#74

Fluoranthene

Concen: 177.261 ng

RT: 12.62 min Scan# 1790

Delta R.T. 0.02 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Instrument :

BNA_F

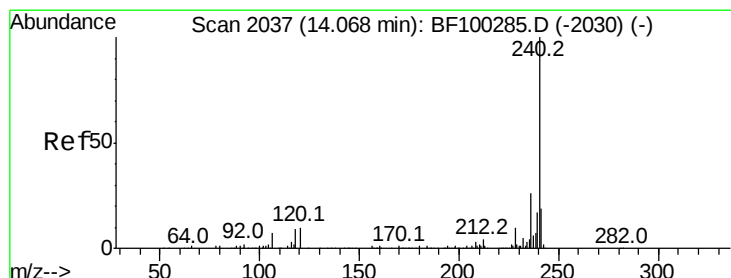
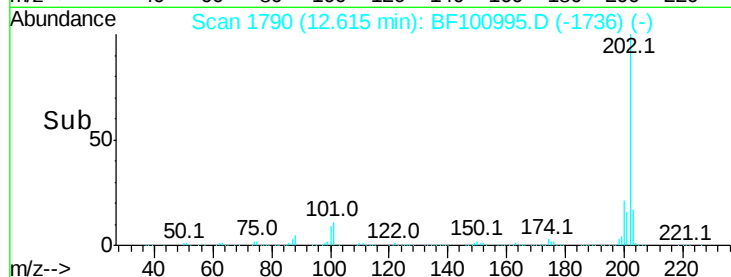
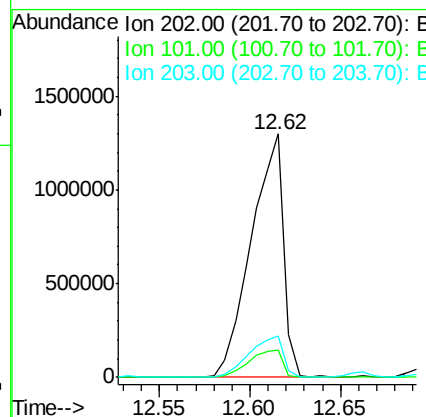
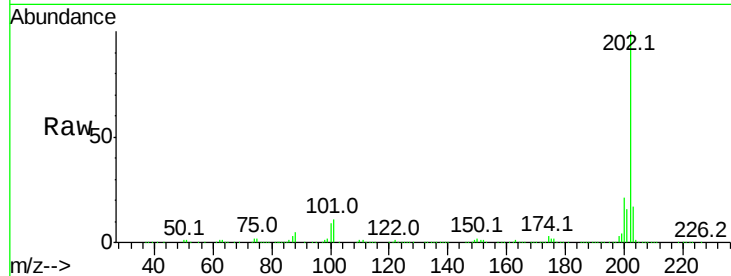
ClientSampleId :

SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	34.1
203	17.2	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

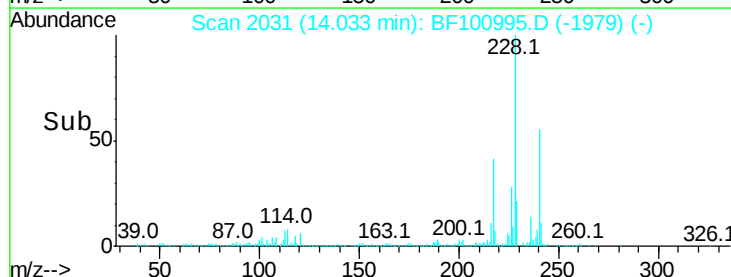
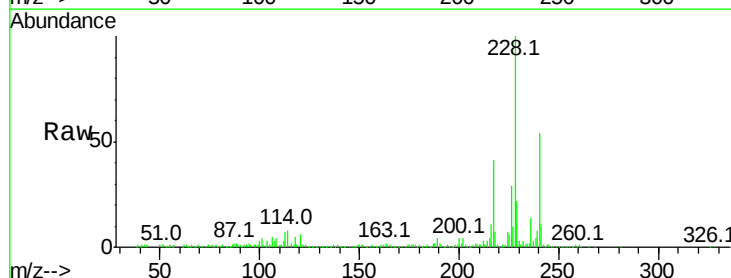
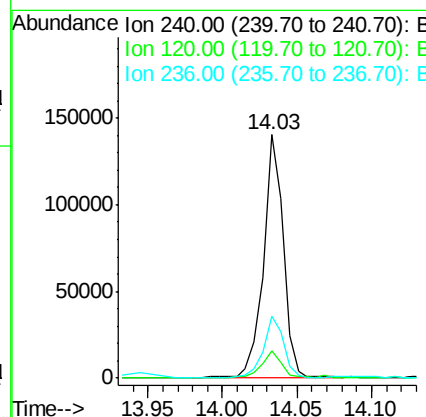
RT: 14.03 min Scan# 2031

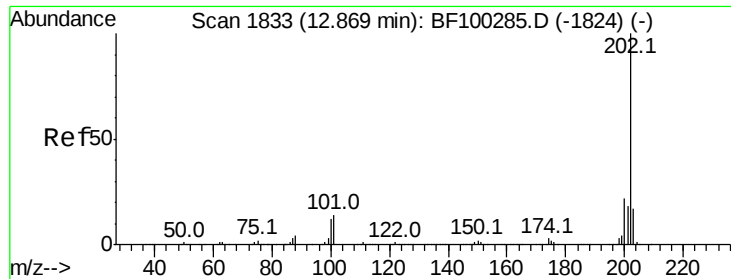
Delta R.T. 0.01 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.5	14.3
236	25.7	20.7	31.1





#77

Pvrene

Concen: 155.093 ng

RT: 12.84 min Scan# 1829

Delta R.T. 0.02 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Instrument :

BNA_F

ClientSampleId :

SB-3(0-2)-20171127

Tot Ion:202 Resp: 1402474

Ion Ratio Lower Upper

202 100

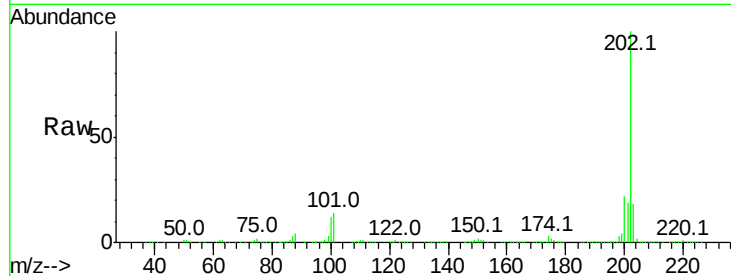
200 21.7 17.4 26.2

203 18.2 14.3 21.5

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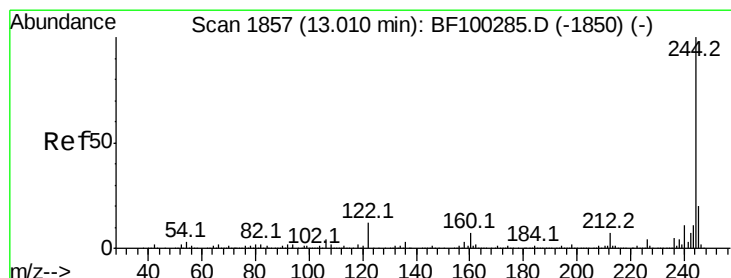
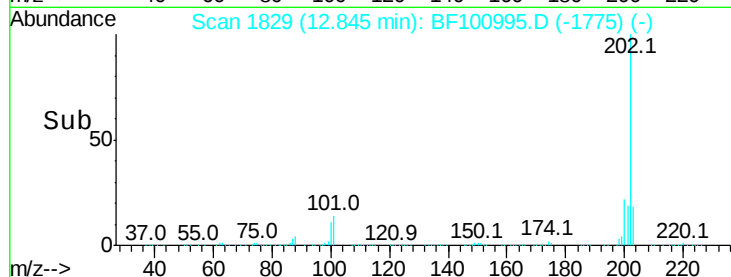
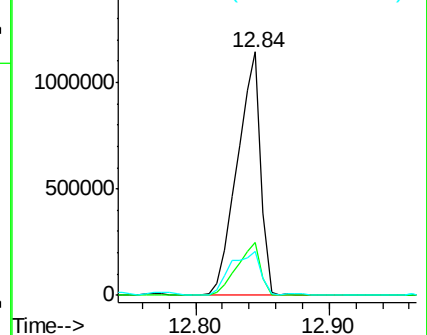
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 6.154 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

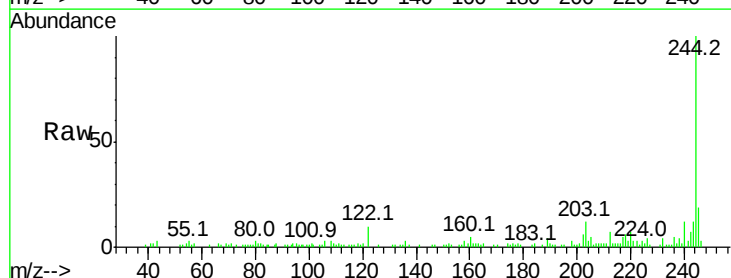
Tgt Ion:244 Resp: 33976

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

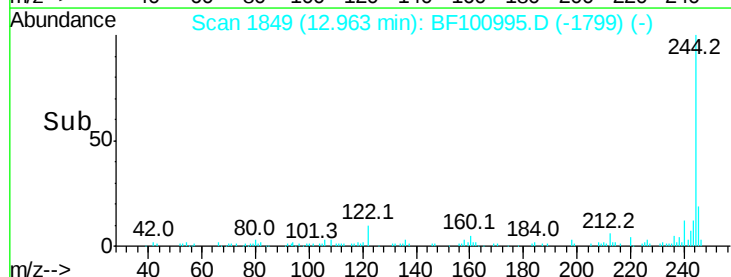
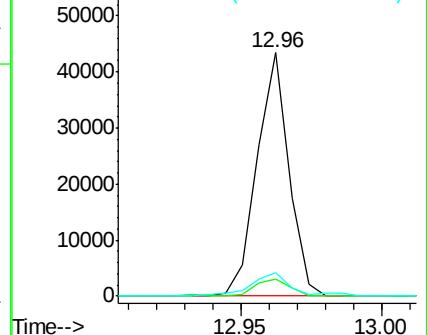
122 9.5 11.0 16.4#

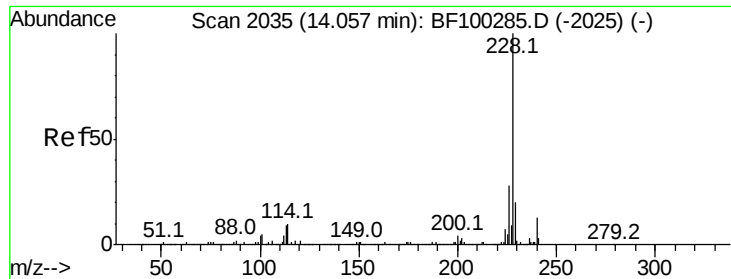


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





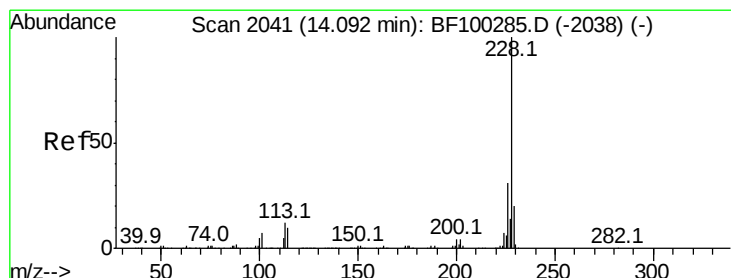
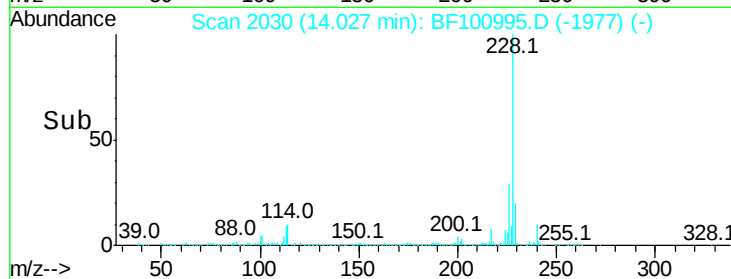
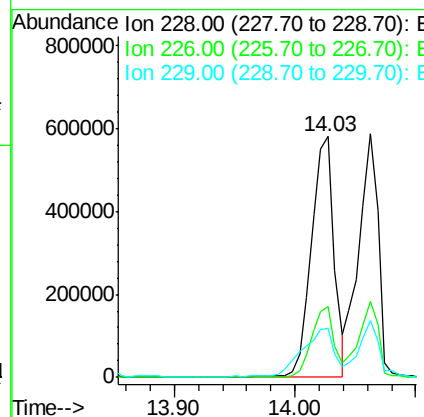
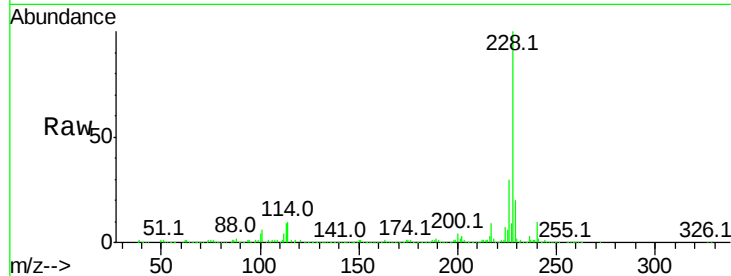
#80
Benzo(a)anthracene
Concen: 99.993 ng
RT: 14.03 min Scan# 2030
Delta R.T. 0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Instrument :
BNA_F
ClientSampleId :
SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	33.8
229	20.4	15.8	23.6

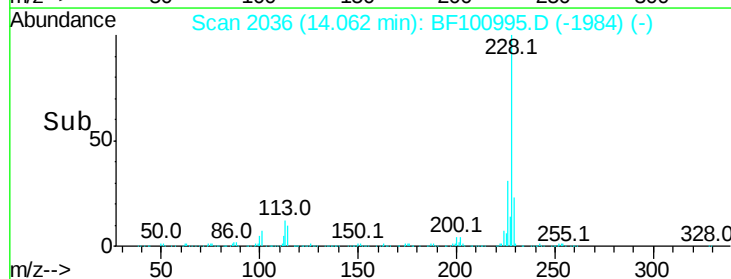
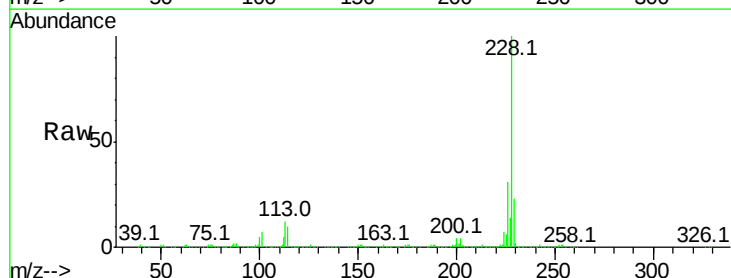
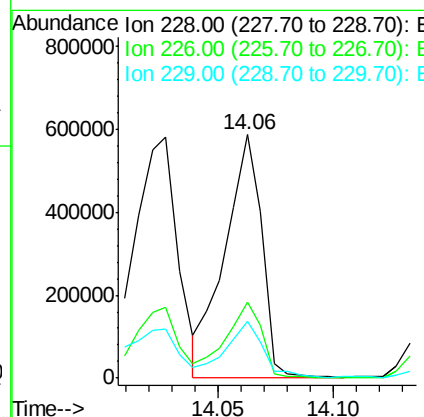
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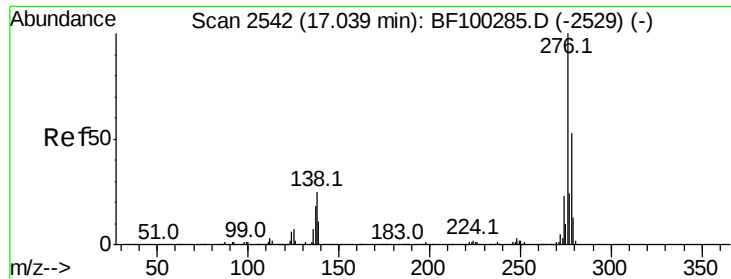
Sohil
11/30/2017 4:30:17 PM



#82
Chrysene
Concen: 88.083 ng
RT: 14.06 min Scan# 2036
Delta R.T. 0.01 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.0	37.6
229	23.1	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 50.604 ng

RT: 17.00 min Scan# 2536

Delta R.T. 0.03 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Instrument :

BNA_F

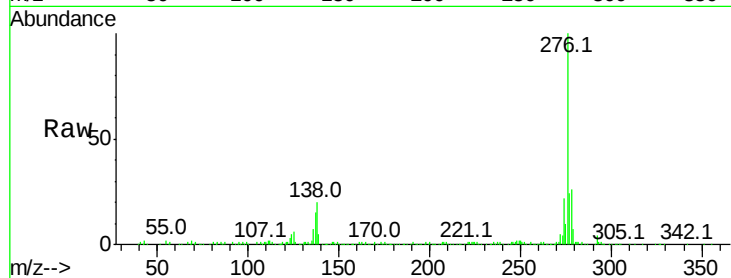
ClientSampleId :

SB-3(0-2)-20171127

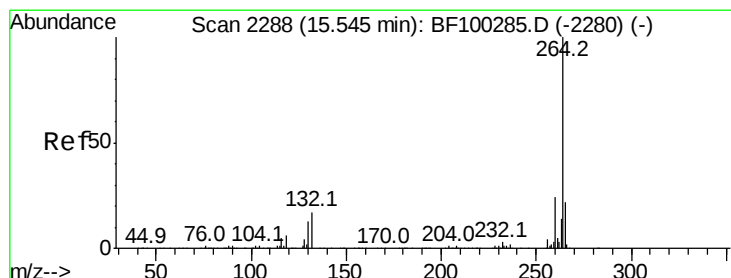
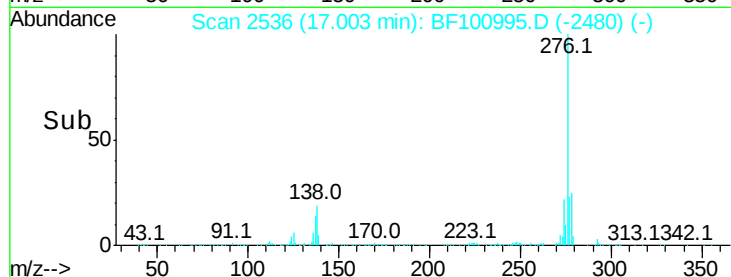
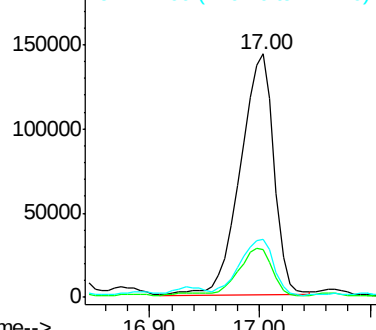
Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	19.4	25.0	37.6#	
277	23.0	20.1	30.1	

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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

Perylene-d12

Concen: 20.000 ng

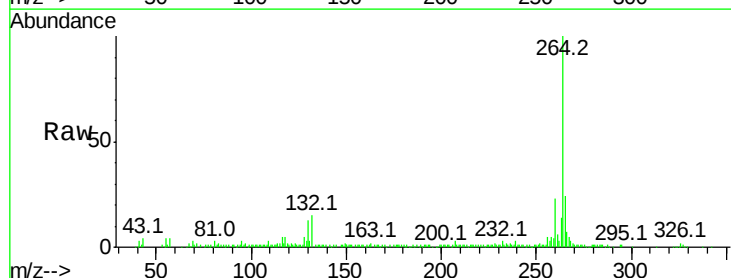
RT: 15.51 min Scan# 2282

Delta R.T. 0.02 min

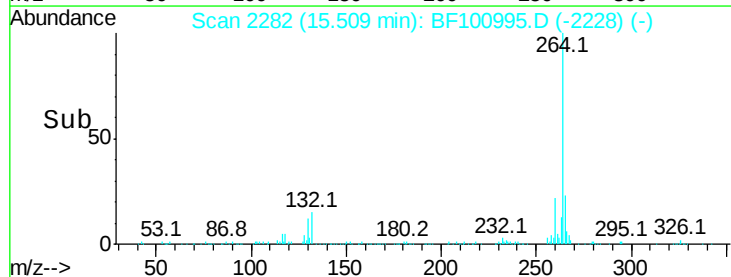
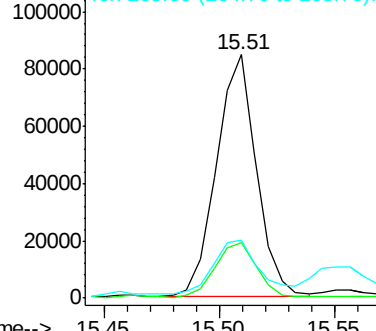
Lab File: BF100995.D

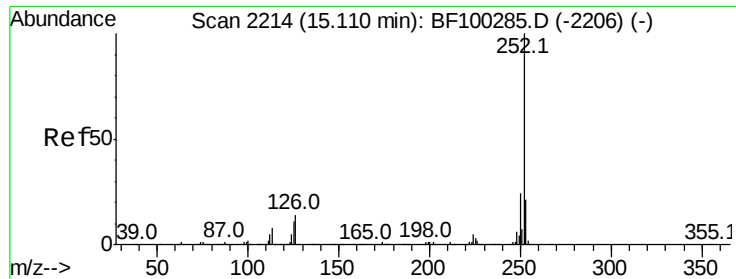
Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	22.5	19.2	28.8	
265	23.6	17.5	26.3	



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: 116.799 ng m

RT: 15.09 min Scan# 2210

Delta R.T. 0.02 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Instrument :

BNA_F

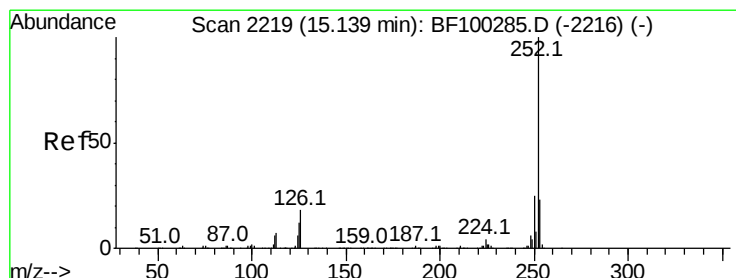
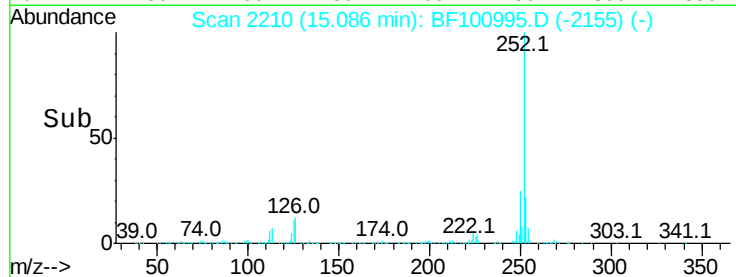
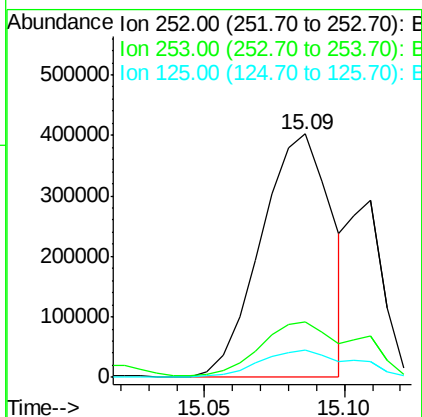
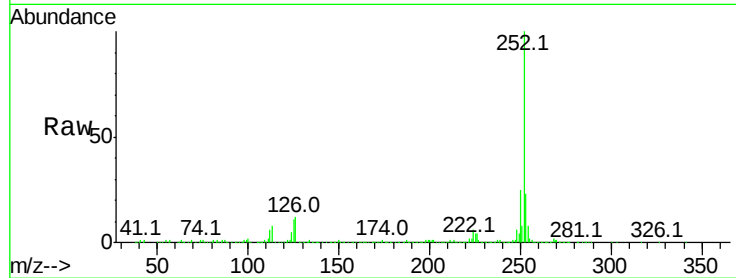
ClientSampleId :

SB-3(0-2)-20171127

Tot Ion:	252	Resp:	700712
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.0	25.6
125	11.1	9.0	13.6

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#88

Benzo(k)fluoranthene

Concen: 43.714 ng m

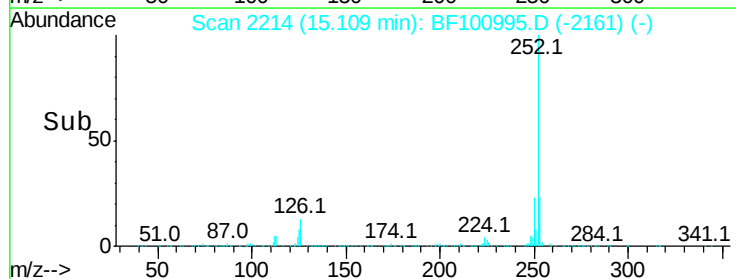
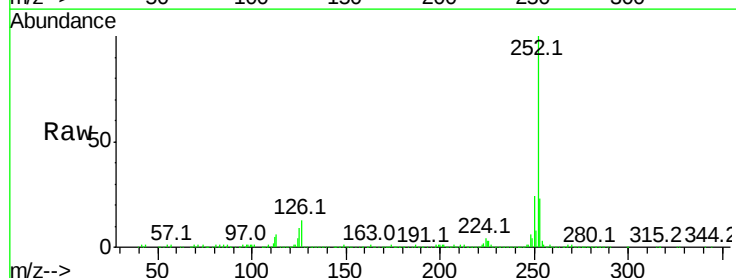
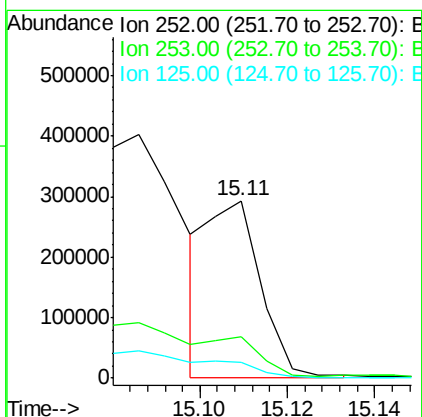
RT: 15.11 min Scan# 2214

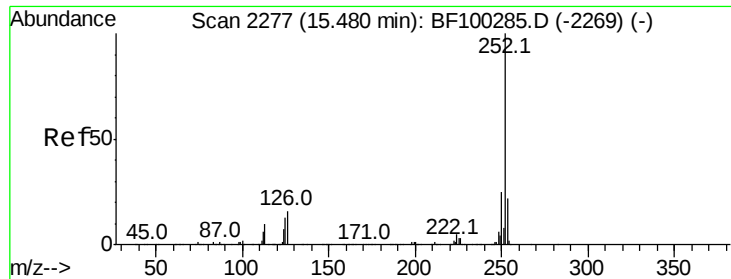
Delta R.T. 0.01 min

Lab File: BF100995.D

Acq: 29 Nov 2017 22:59

Tgt Ion:	252	Resp:	247792
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.9	26.9
125	8.6	10.2	15.2#





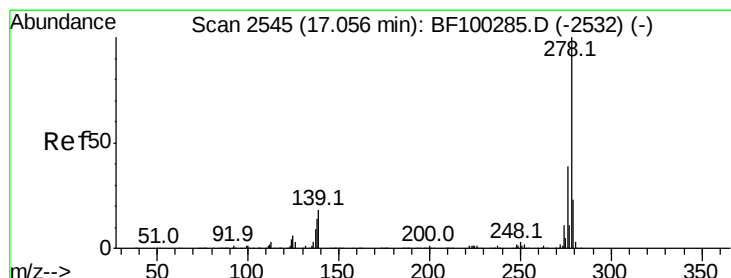
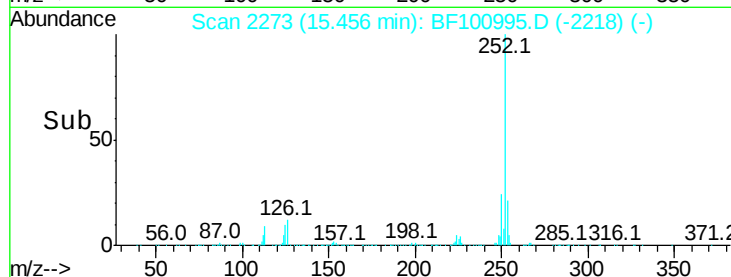
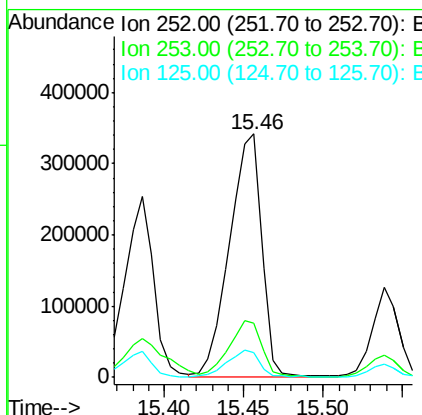
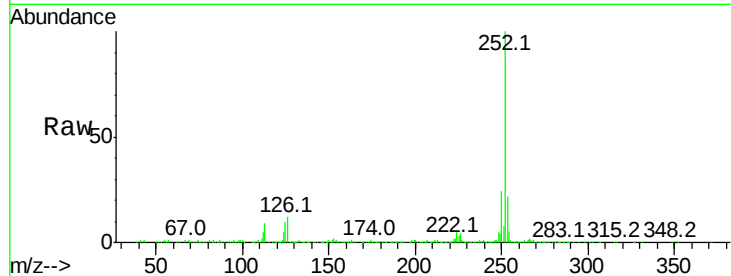
#89
Benzo(a)pyrene
Concen: 89.810 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.02 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Instrument :
BNA_F
ClientSampleId :
SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	10.1	9.8	14.6

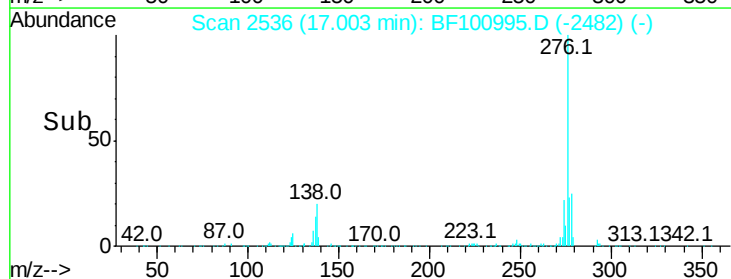
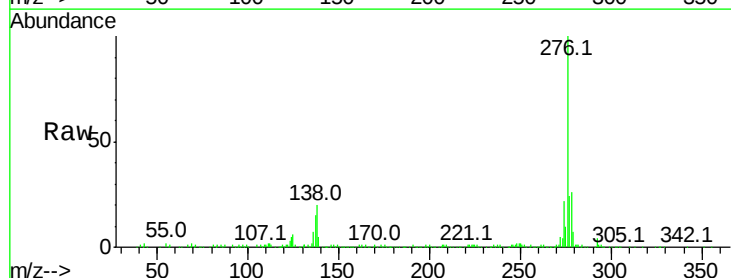
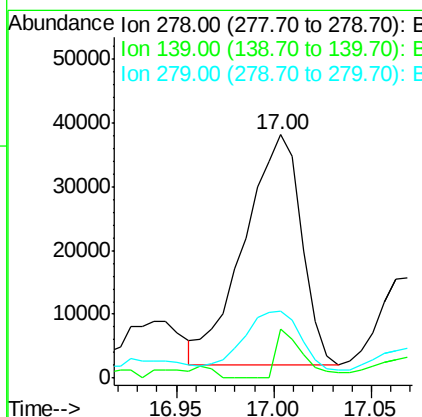
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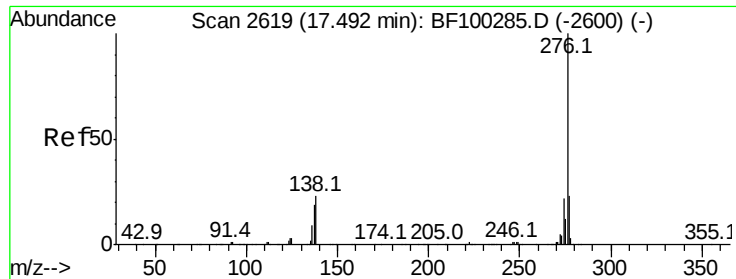
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 16.763 ng
RT: 17.00 min Scan# 2536
Delta R.T. 0.02 min
Lab File: BF100995.D
Acq: 29 Nov 2017 22:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.2	15.9	23.9
279	27.6	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 64.054 ng
 RT: 17.46 min Scan# 2613
 Delta R.T. 0.04 min
 Lab File: BF100995.D
 Acq: 29 Nov 2017 22:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-3(0-2)-20171127

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.1	17.9	26.9
138	20.1	21.8	32.8

Manual Integrations
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