

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
 Data File : BF077567.D
 Acq On : 4 Mar 2015 2:25
 Operator : TP/IZ
 Sample : G1399-10DL 10X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB4(2-4)DL

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Quant Time: Mar 04 06:50:18 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 04 04:46:40 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.24	152	78720	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	307204	20.00	ng	0.00
38) Acenaphthene-d10	10.99	164	162515	20.00	ng	0.00
63) Phenanthrene-d10	12.83	188	331851	20.00	ng	0.00
75) Chrysene-d12	16.12	240	318542	20.00	ng	0.00
86) Perylene-d12	17.82	264	356145	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	29313	6.22	ng	0.00
7) Phenol-d6	6.80	99	38926	6.42	ng	0.00
23) Nitrobenzene-d5	7.93	82	20461	4.14	ng	0.00
41) 2,4,6-Tribromophenol	11.97	330	8702	5.56	ng	0.00
44) 2-Fluorobiphenyl	10.16	172	45078	4.33	ng	0.00
78) Terphenyl-d14	14.83	244	54180	3.98	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.84	128	51208	3.33	ng	99
37) 2-Methylnaphthalene	9.70	142	34198	3.13	ng	97
48) Acenaphthylene	10.81	152	221579	14.50	ng	98
51) Acenaphthene	11.03	154	43921	4.81	ng	98
54) Dibenzofuran	11.24	168	94161	6.69	ng	98
57) Fluorene	11.66	166	160609m	14.26	ng	
70) Phenanthrene	12.86	178	902669	46.93	ng	99
71) Anthracene	12.92	178	327249	17.15	ng	99
74) Fluoranthene	14.34	202	981959	46.74	ng	98
77) Pyrene	14.62	202	1171302	60.11	ng	100
80) Benzo(a)anthracene	16.11	228	465615	24.94	ng	95
82) Chrysene	16.15	228	419578	23.93	ng	97
85) Indeno(1,2,3-cd)pyrene	19.26	276	202719	10.14	ng	96
87) Benzo(b)fluoranthene	17.39	252	451482m	21.80	ng	
88) Benzo(k)fluoranthene	17.41	252	142573m	7.02	ng	
89) Benzo(a)pyrene	17.76	252	406834	20.63	ng	99
90) Dibenzo(a,h)anthracene	19.27	278	56060	2.98	ng	# 89
91) Benzo(g,h,i)perylene	19.68	276	202760	10.68	ng	97

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

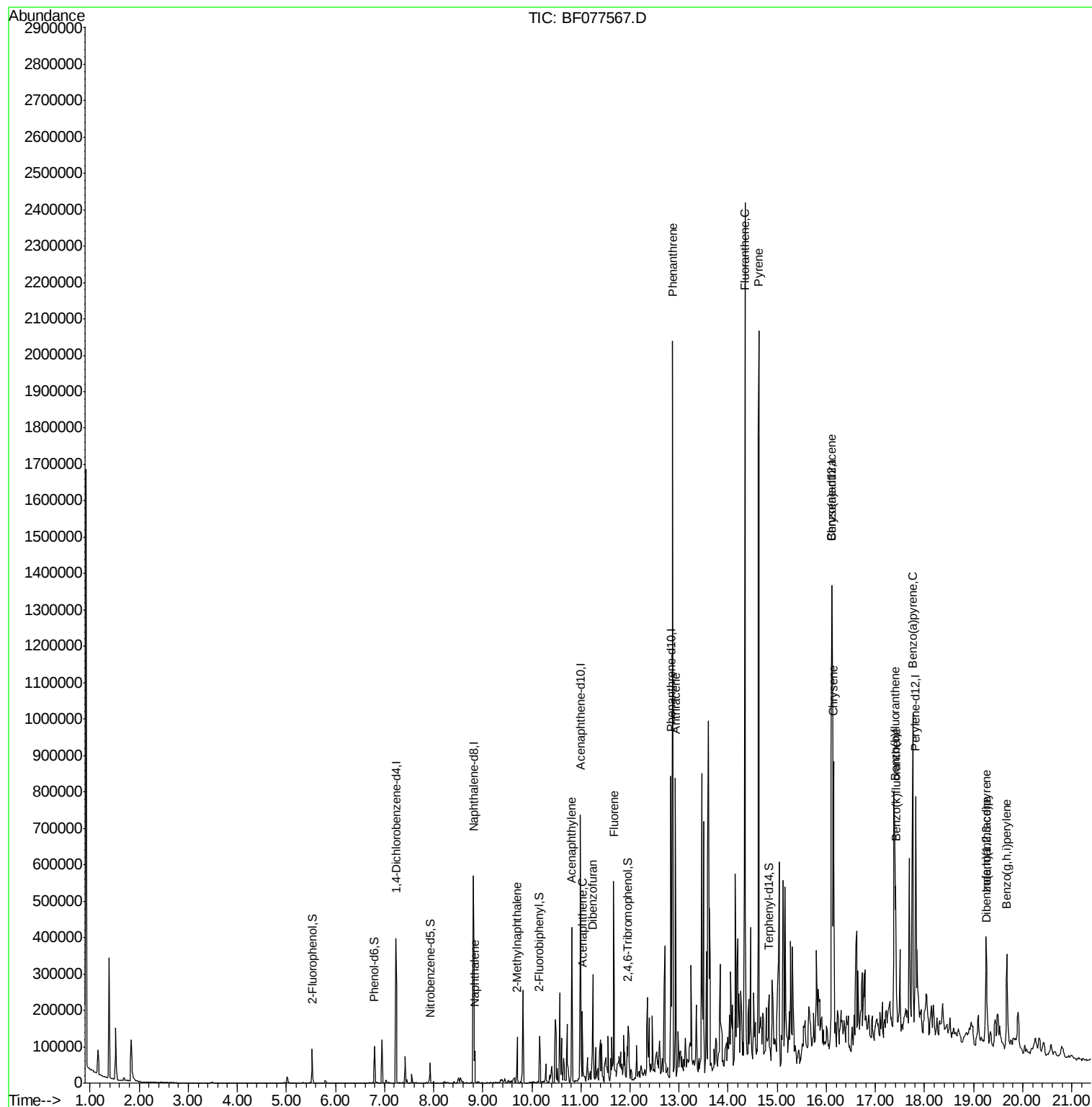
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
Data File : BF077567.D
Acq On : 4 Mar 2015 2:25
Operator : TP/IZ
Sample : G1399-10DL 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

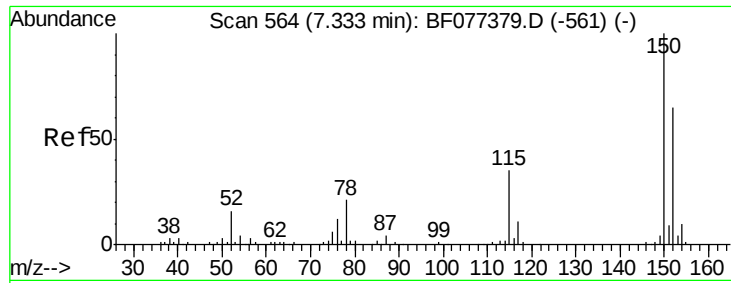
Instrument :
BNA_F
ClientSampleId :
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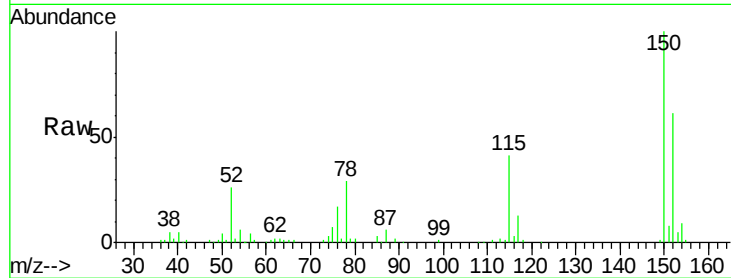
Quant Time: Mar 04 06:50:18 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 04 04:46:40 2015
Response via : Initial Calibration





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.24 min Scan# 555
 Delta R.T. -0.00 min
 Lab File: BF077567.D
 Acq: 4 Mar 2015 2:25

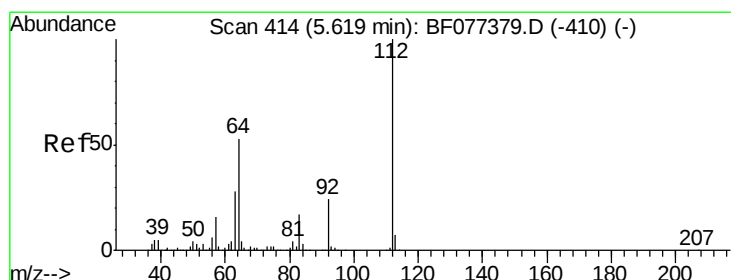
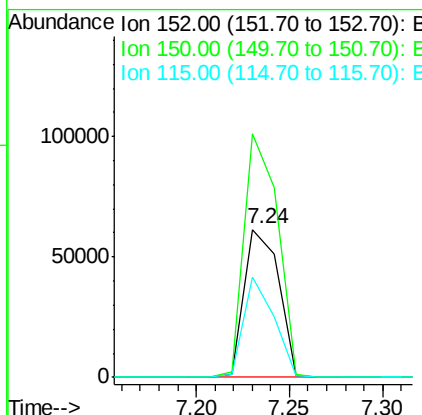
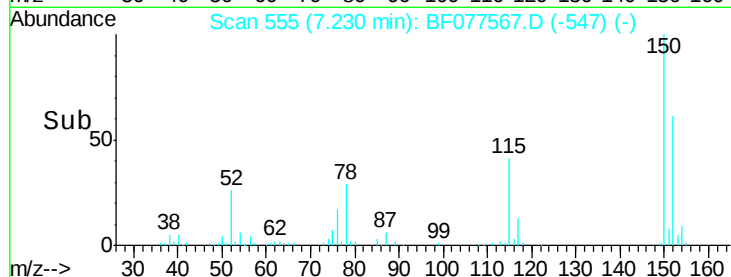
Instrument :
 BNA_F
 ClientSampleID :
 SB4(2-4)DL



Tgt Ion	Ratio	Lower	Upper
152	100		
150	164.5	124.0	186.0
115	67.5	49.4	74.2

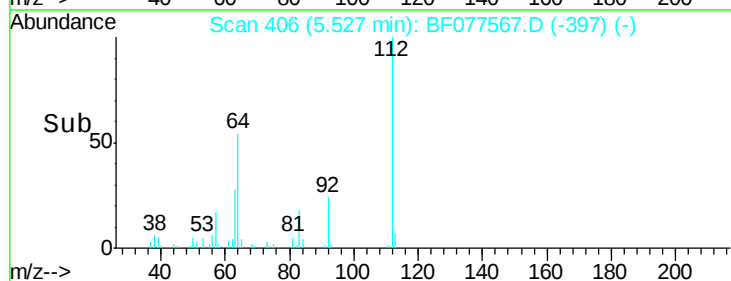
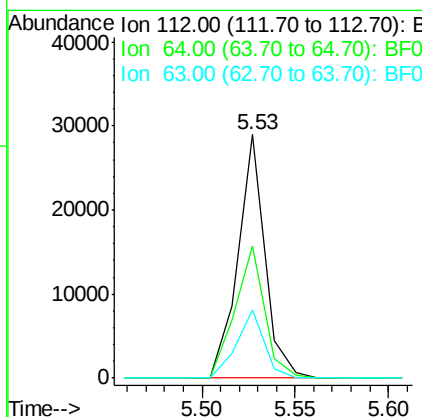
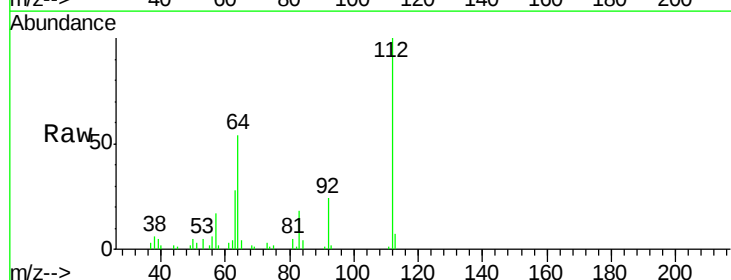
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#5
 2-Fluorophenol
 Concen: 6.22 ng
 RT: 5.53 min Scan# 406
 Delta R.T. 0.00 min
 Lab File: BF077567.D
 Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	48.5	72.7
63	28.1	25.0	37.4





#7

Phenol-d6

Concen: 6.42 ng

RT: 6.80 min Scan# 517

Delta R.T. -0.00 min

Lab File: BF077567.D

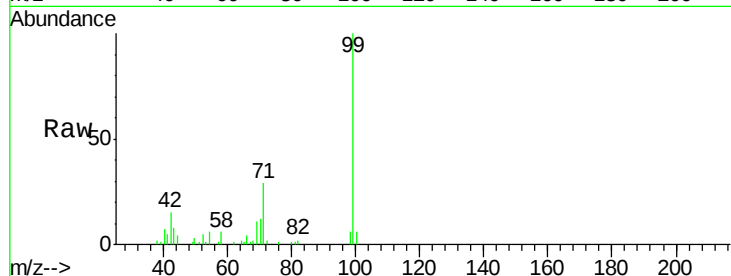
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Instrument :

BNA_F

ClientSampleId :

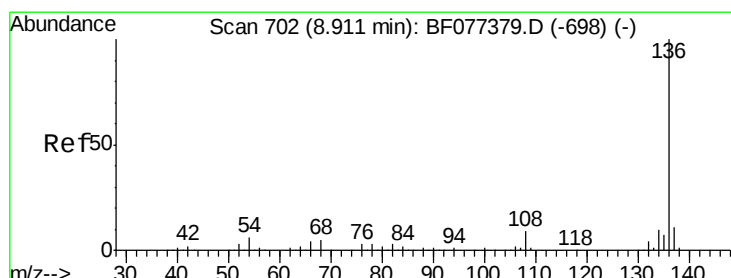
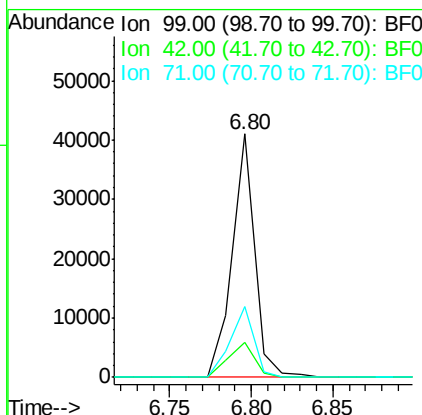
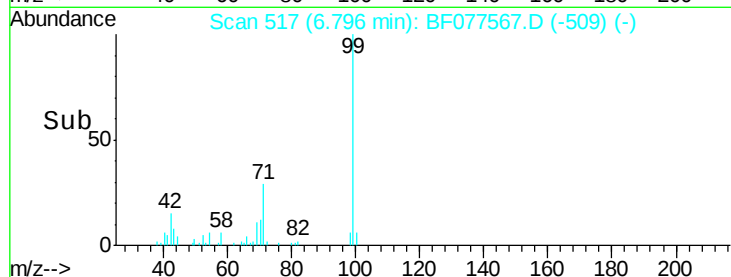
SB4(2-4)DL



Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.6	16.2	24.4#
71	29.1	26.7	40.1

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#21

Naphthalene-d8

Concen: 20.00 ng

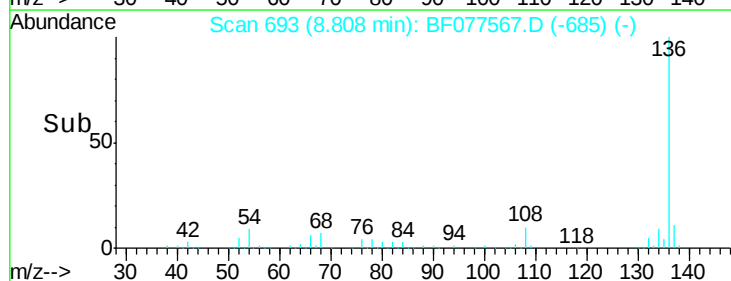
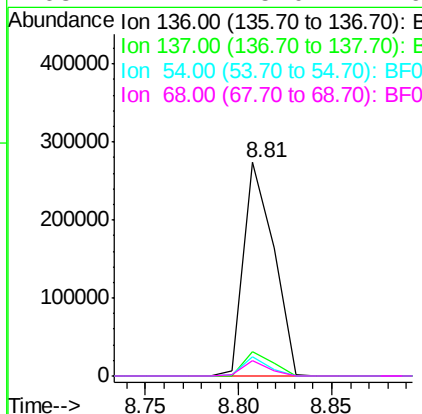
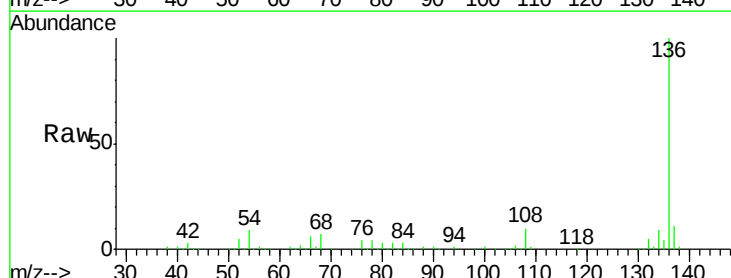
RT: 8.81 min Scan# 693

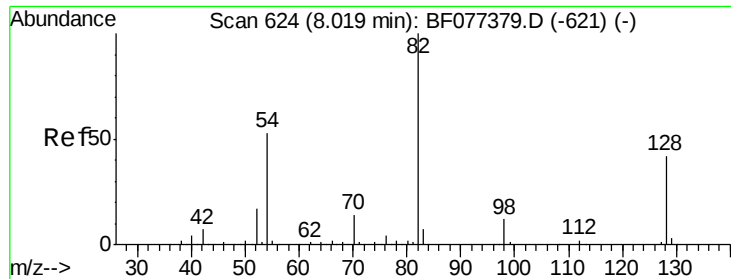
Delta R.T. -0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.6	13.0
54	9.2	6.2	9.4
68	7.1	5.0	7.6





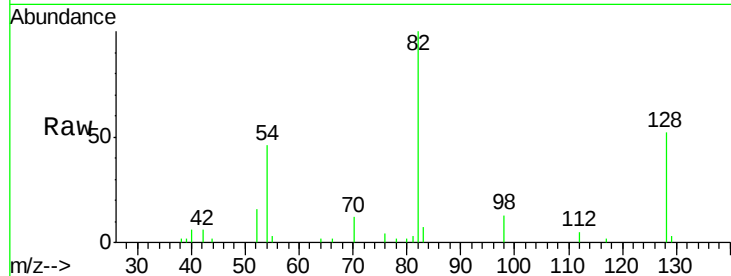
#23
 Nitrobenzene-d5
 Concen: 4.14 ng
 RT: 7.93 min Scan# 616
 Delta R.T. -0.00 min
 Lab File: BF077567.D
 Acq: 4 Mar 2015 2:25

Instrument :
 BNA_F
 ClientSampleID :
 SB4(2-4)DL

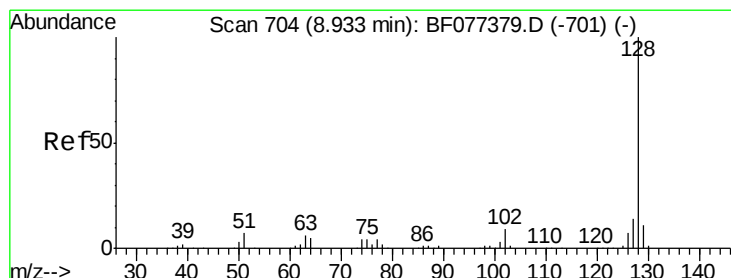
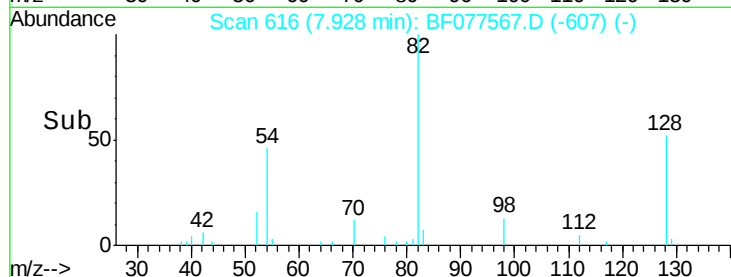
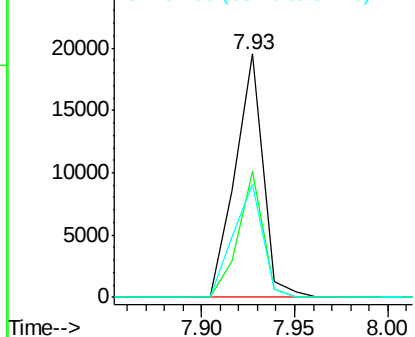
Tgt Ion	Ratio	Lower	Upper
82	100		
128	51.7	43.8	65.8
54	46.2	36.7	55.1

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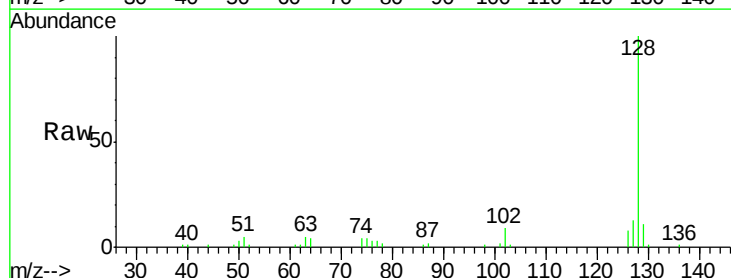


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

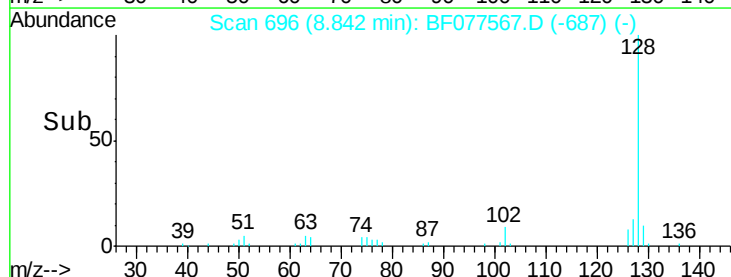
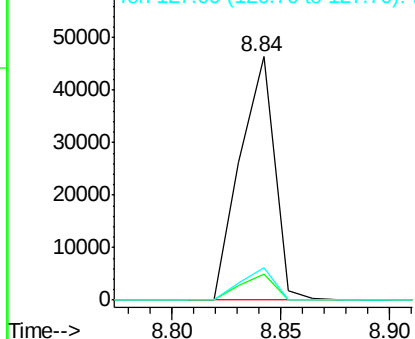


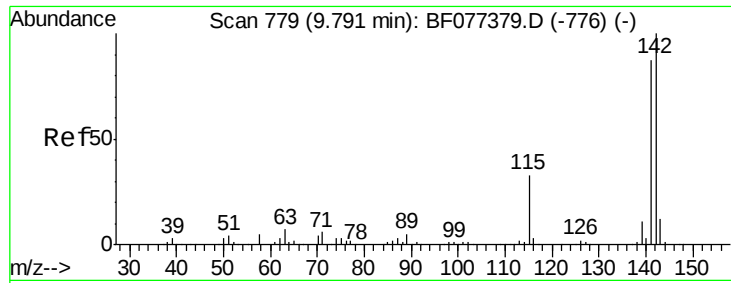
#31
 Naphthalene
 Concen: 3.33 ng
 RT: 8.84 min Scan# 696
 Delta R.T. -0.00 min
 Lab File: BF077567.D
 Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.4	14.0
127	13.1	10.6	15.8



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





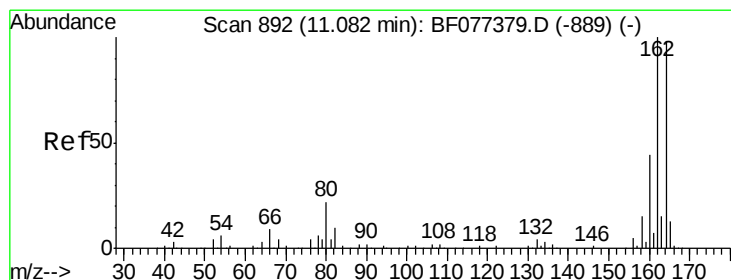
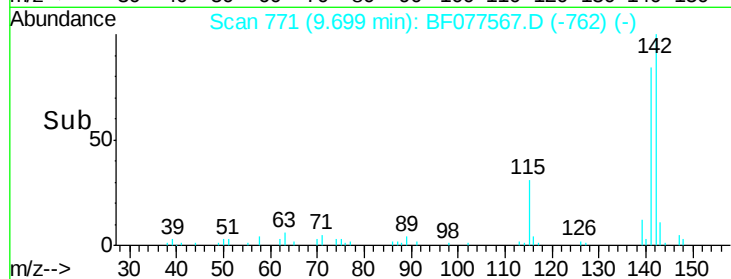
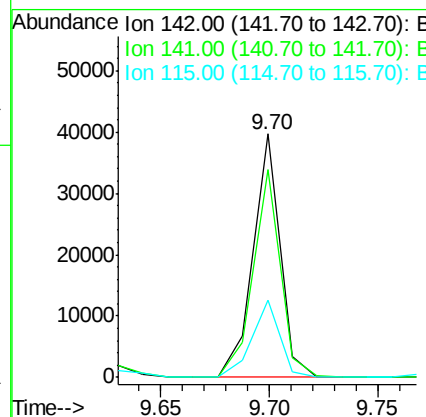
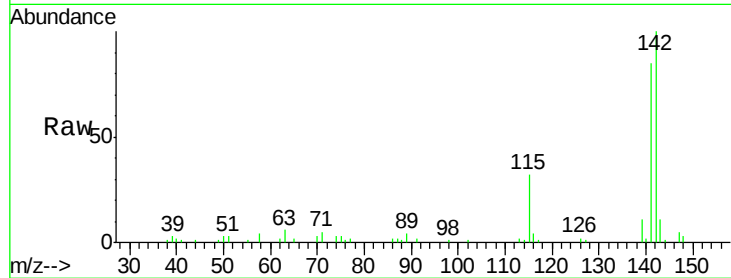
#37
2-Methylnaphthalene
Concen: 3.13 ng
RT: 9.70 min Scan# 771
Delta R.T. -0.00 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Instrument :
BNA_F
ClientSampleId :
SB4(2-4)DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.2	70.7	106.1
115	31.8	24.2	36.4

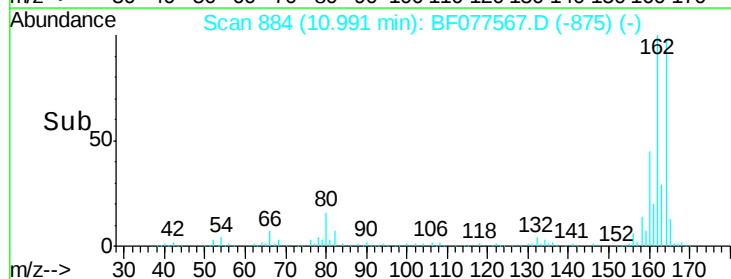
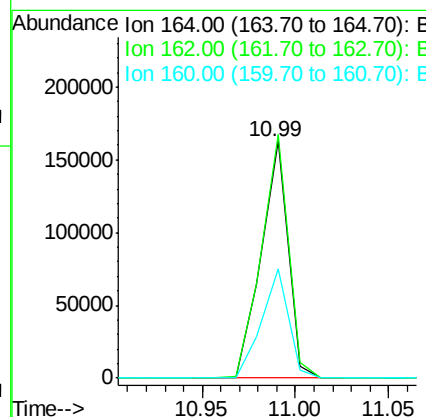
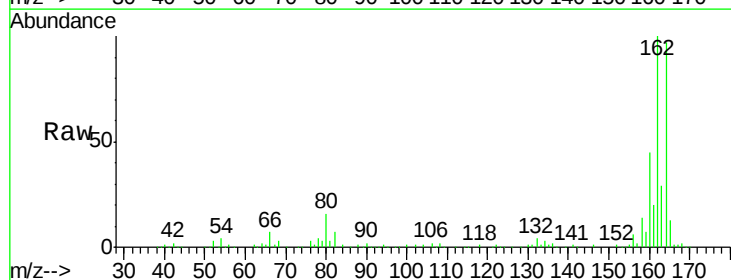
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.99 min Scan# 884
Delta R.T. -0.00 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.8	83.2	124.8
160	46.3	34.6	52.0





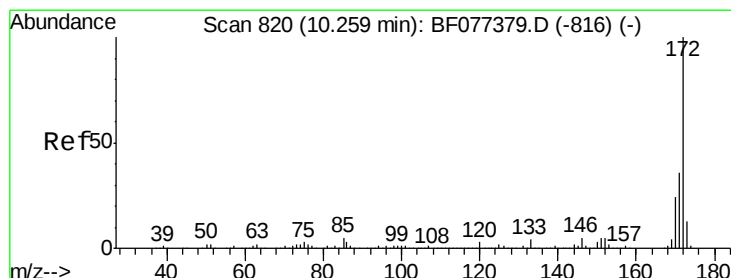
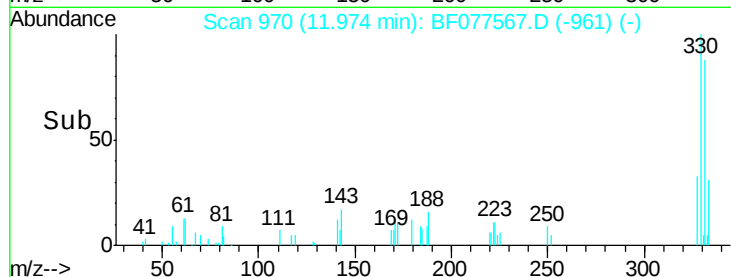
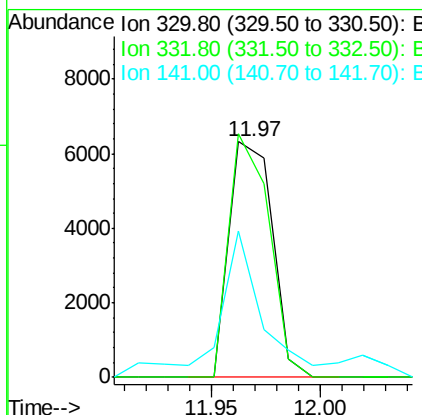
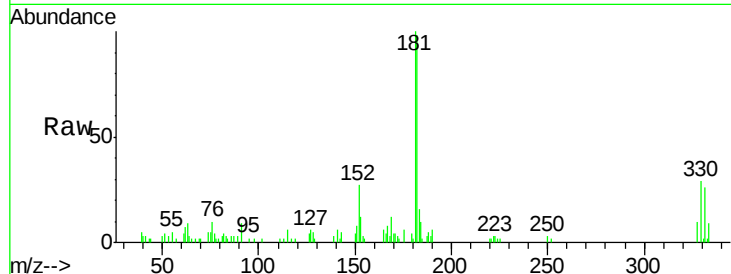
#41
 2,4,6-Tribromophenol
 Concen: 5.56 ng
 RT: 11.97 min Scan# 970
 Delta R.T. -0.00 min
 Lab File: BF077567.D
 Acq: 4 Mar 2015 2:25

Instrument :
 BNA_F
 ClientSampleId :
 SB4(2-4)DL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	8702		
332	96.5	77.4	116.2	
141	67.1	28.8	43.2#	

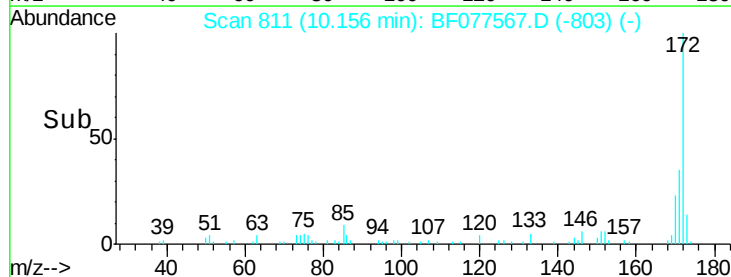
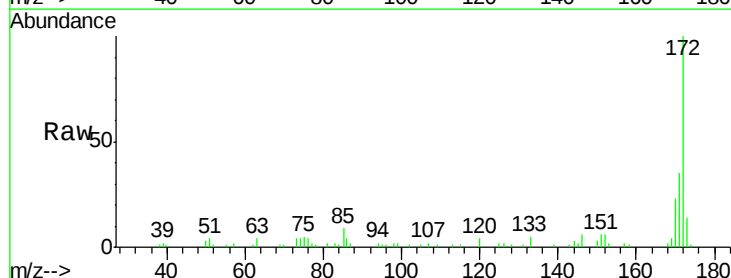
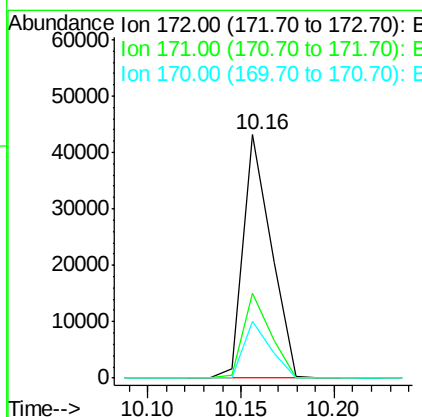
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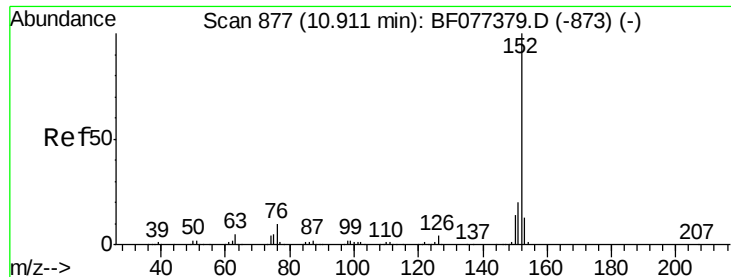
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#44
 2-Fluorobiphenyl
 Concen: 4.33 ng
 RT: 10.16 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: BF077567.D
 Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	45078		
171	34.9	28.9	43.3	
170	23.2	19.4	29.2	





#48

Acenaphthylene

Concen: 14.50 ng

RT: 10.81 min Scan# 868

Delta R.T. -0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

Instrument :

BNA_F

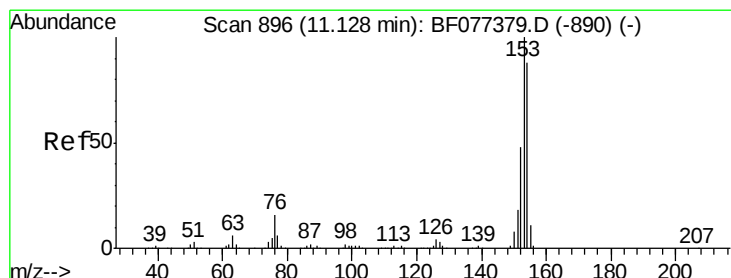
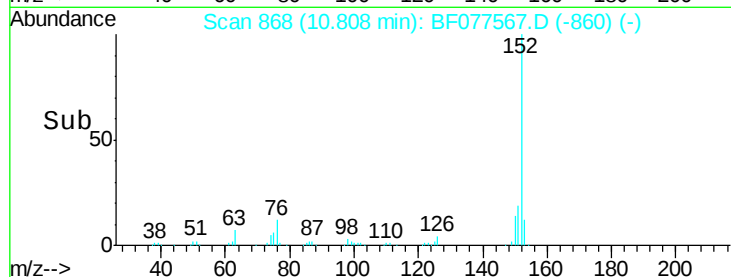
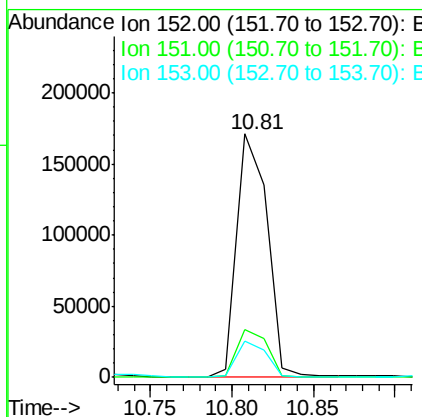
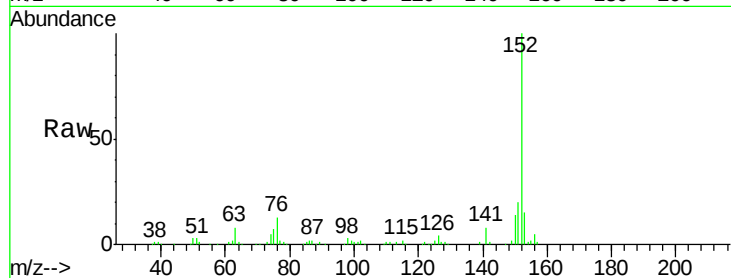
ClientSampleId :

SB4(2-4)DL

Tgt Ion:	152	Resp:	221579
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.1	24.1
153	14.7	10.9	16.3

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#51

Acenaphthene

Concen: 4.81 ng

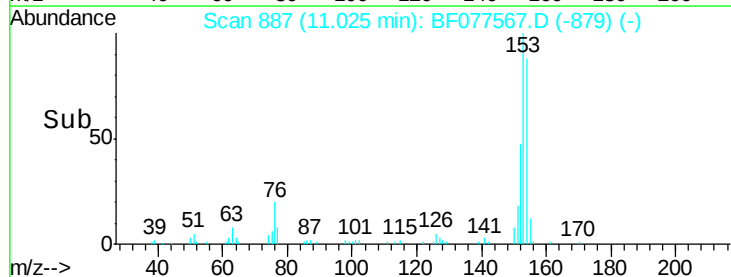
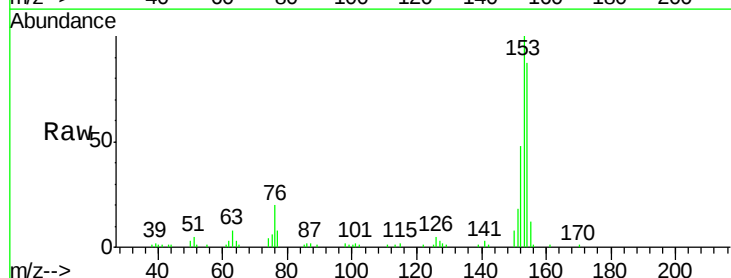
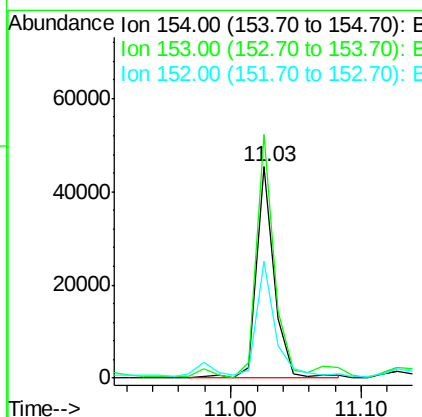
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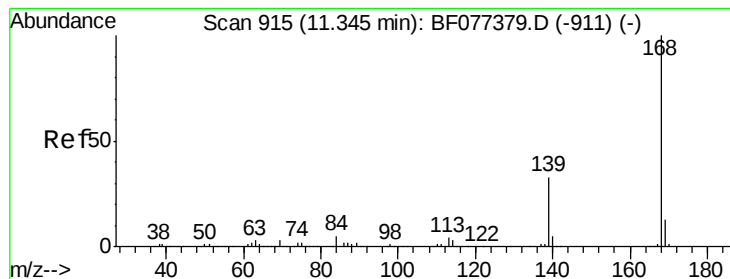
Delta R.T. -0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

Tgt Ion:	154	Resp:	43921
Ion Ratio	Lower	Upper	
154	100		
153	115.1	90.5	135.7
152	55.1	43.5	65.3





#54

Dibenzenofuran

Concen: 6.69 ng

RT: 11.24 min Scan# 906

Delta R.T. -0.00 min

Lab File: BF077567.D

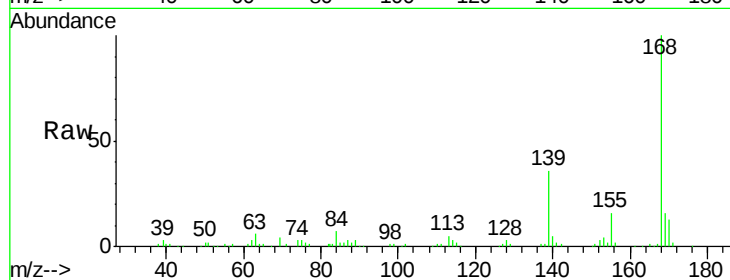
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Instrument :

BNA_F

ClientSampleId :

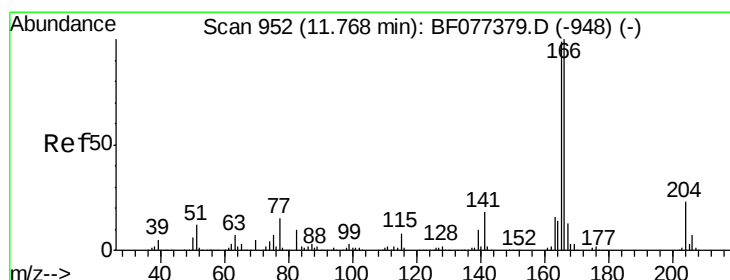
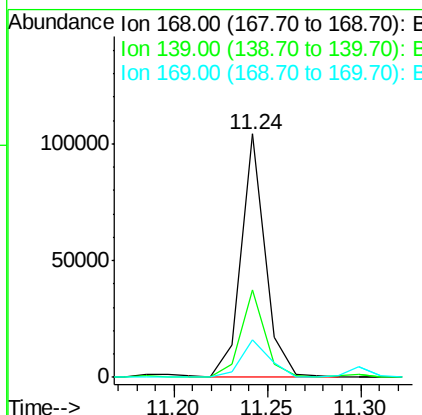
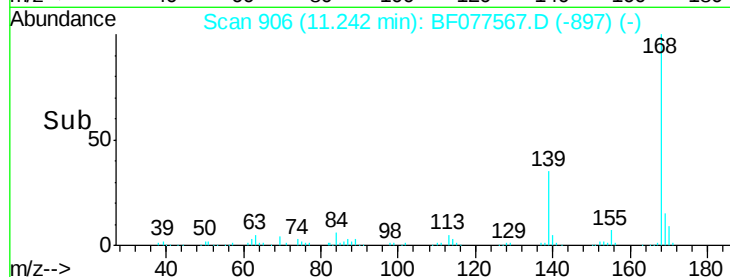
SB4(2-4)DL



Tgt Ion:	168	Resp:	94161
Ion Ratio	Lower	Upper	
168	100		
139	35.9	29.3	43.9
169	15.6	10.9	16.3

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#57

Fluorene

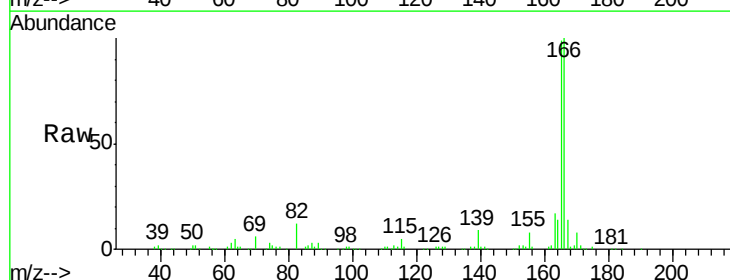
Concen: 14.26 ng m

RT: 11.66 min Scan# 943

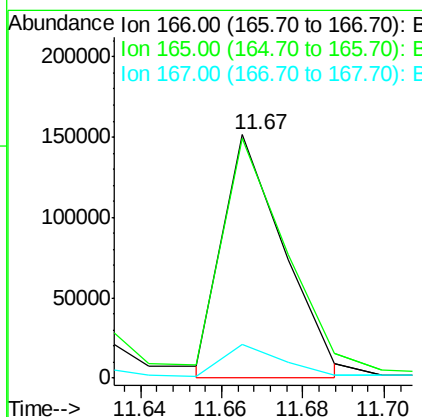
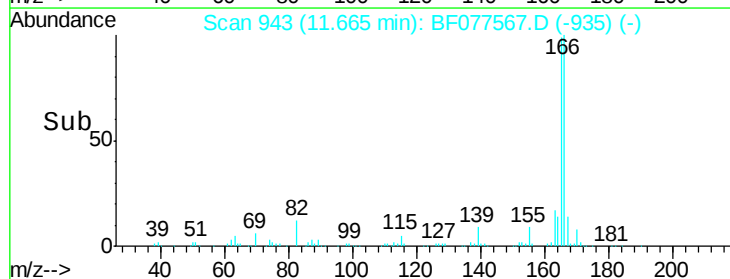
Delta R.T. -0.00 min

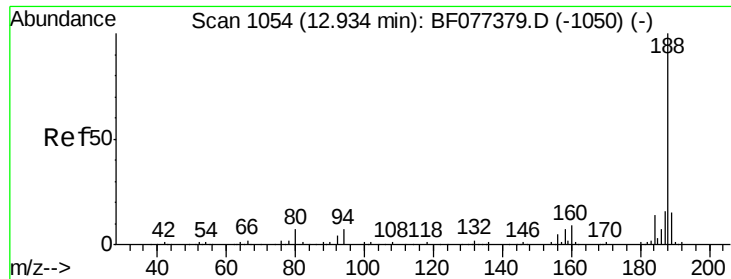
Lab File: BF077567.D

Acq: 4 Mar 2015 2:25



Tgt Ion:	166	Resp:	160609
Ion Ratio	Lower	Upper	
166	100		
165	98.6	77.6	116.4
167	13.7	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.83 min Scan# 1045

Delta R.T. 0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

Instrument :

BNA_F

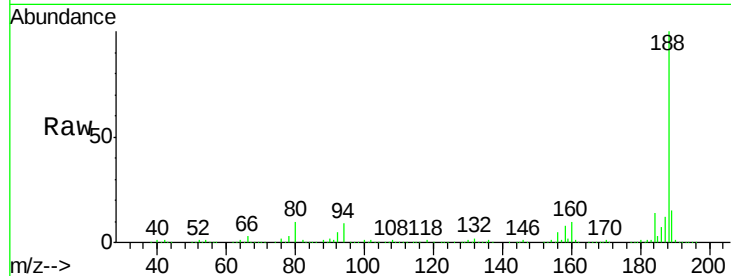
ClientSampleId :

SB4(2-4)DL

Tgt Ion:	188	Resp:	331851
Ion Ratio	Lower	Upper	
188	100		
94	9.4	7.4	11.2
80	10.0	8.0	12.0

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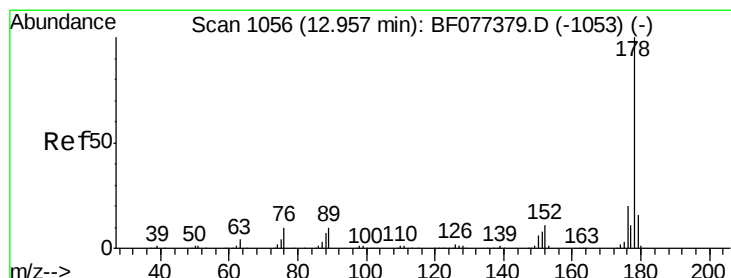
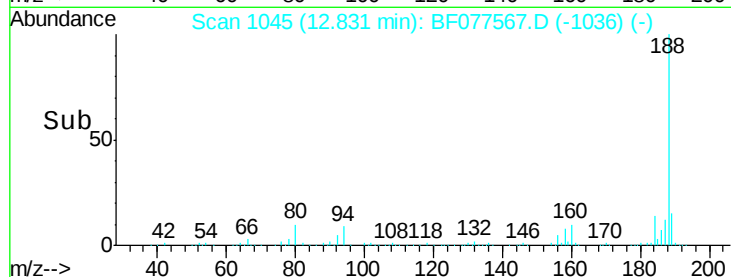
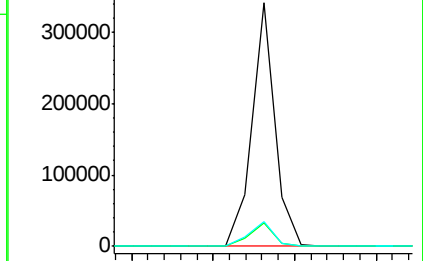
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 46.93 ng

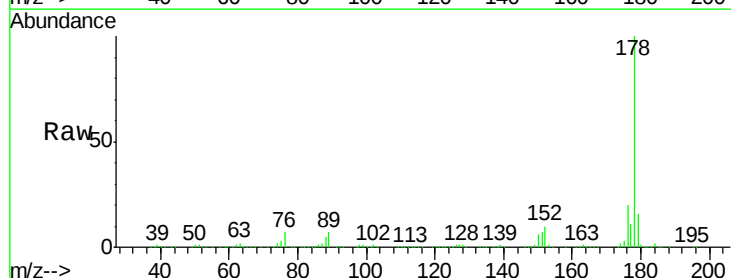
RT: 12.86 min Scan# 1048

Delta R.T. 0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

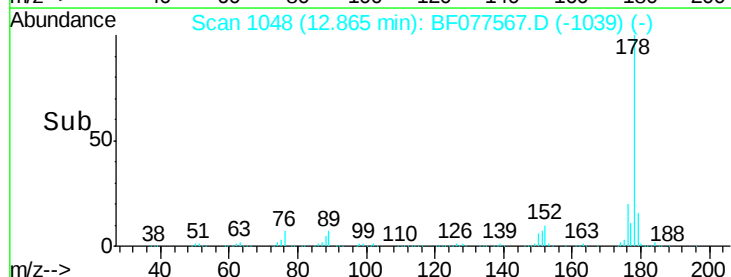
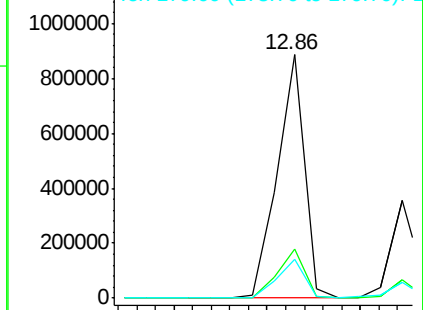
Tgt Ion:	178	Resp:	902669
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.5	23.3
179	15.9	12.2	18.2

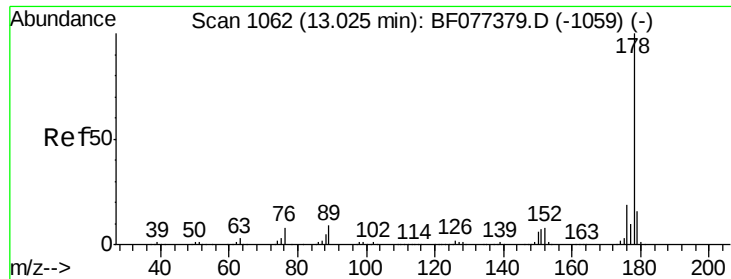


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 17.15 ng

RT: 12.92 min Scan# 1053

Delta R.T. -0.00 min

Lab File: BF077567.D

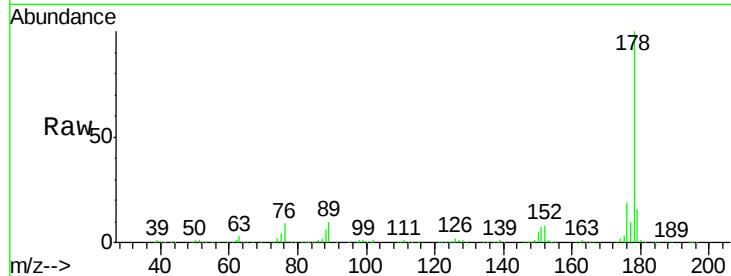
Acq: 4 Mar 2015 2:25

Instrument :

BNA_F

ClientSampleId :

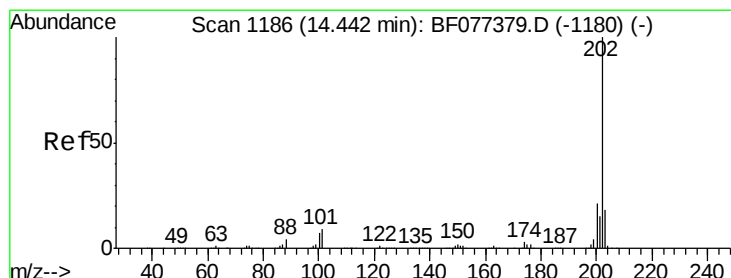
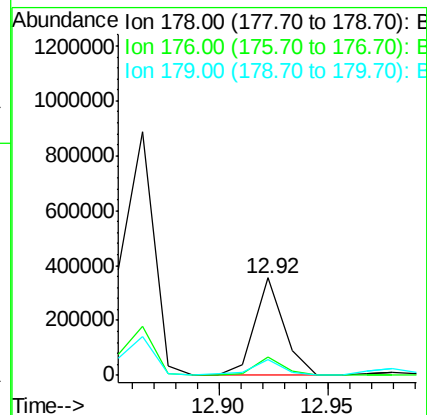
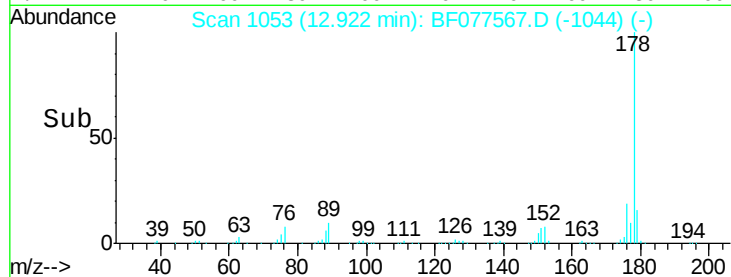
SB4(2-4)DL



Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.0
179	16.0	12.9	19.3

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#74

Fluoranthene

Concen: 46.74 ng

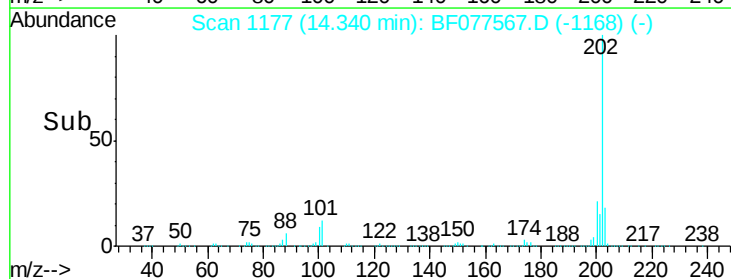
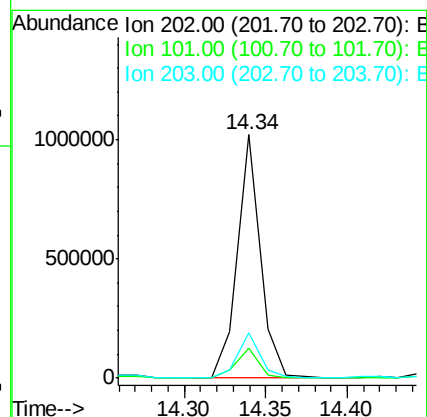
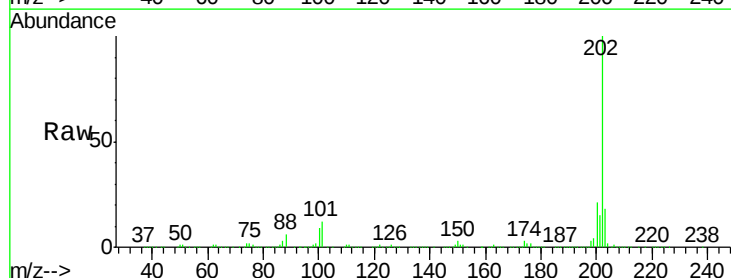
RT: 14.34 min Scan# 1177

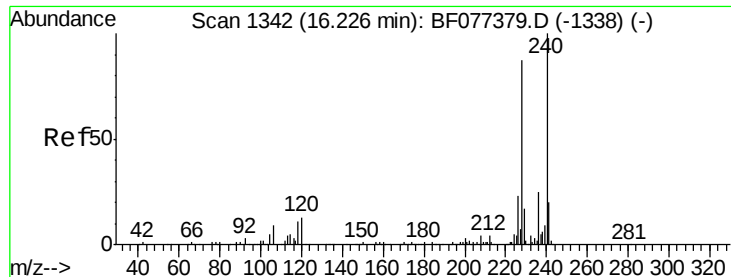
Delta R.T. 0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	30.8
203	18.4	0.0	37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.12 min Scan# 1333

Delta R.T. 0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

Instrument :

BNA_F

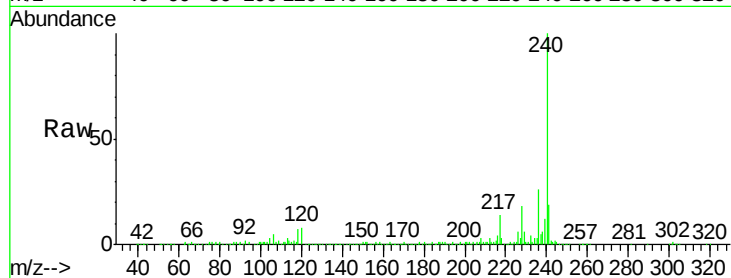
ClientSampleId :

SB4(2-4)DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	318542		
120	8.4	8.8	13.2#	
236	25.5	20.7	31.1	

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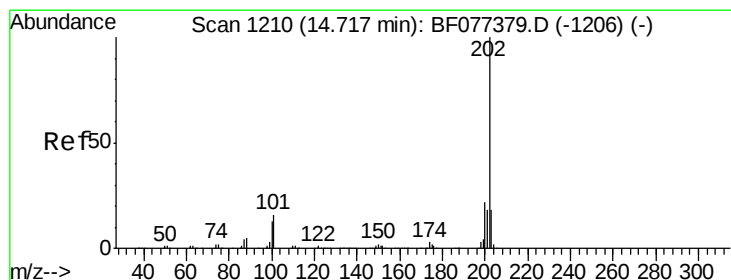
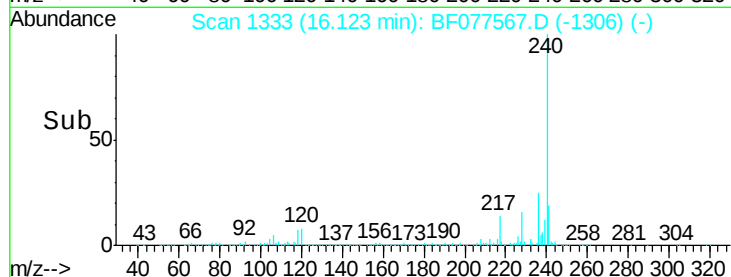
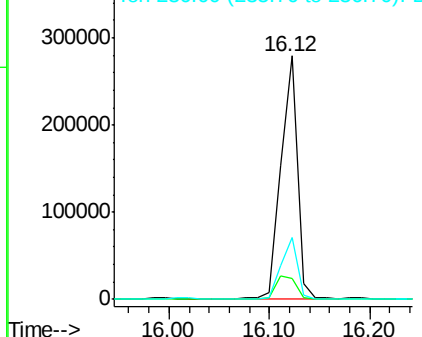
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 60.11 ng

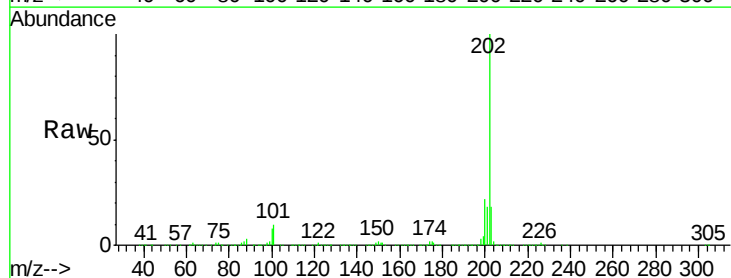
RT: 14.62 min Scan# 1202

Delta R.T. 0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

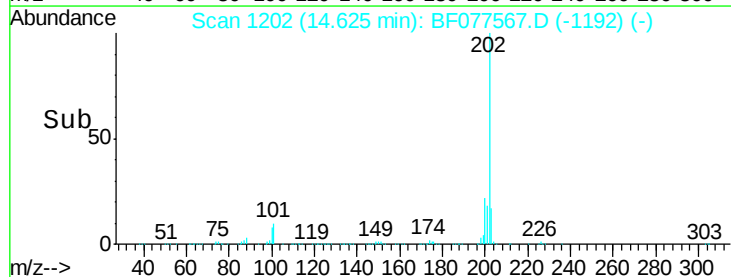
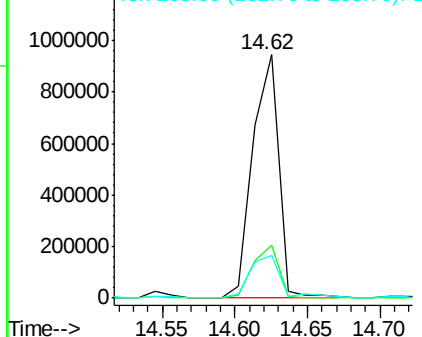
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1171302		
200	21.6	17.1	25.7	
203	17.8	14.2	21.2	

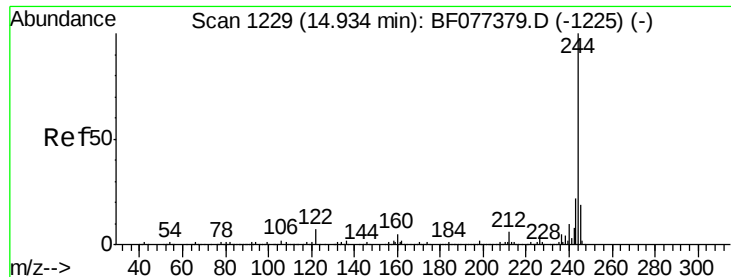


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.98 ng

RT: 14.83 min Scan# 1220

Delta R.T. -0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

Instrument :

BNA_F

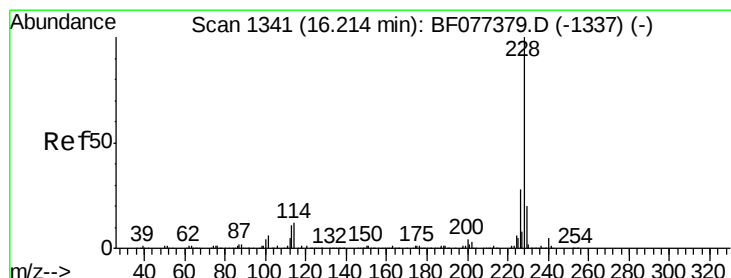
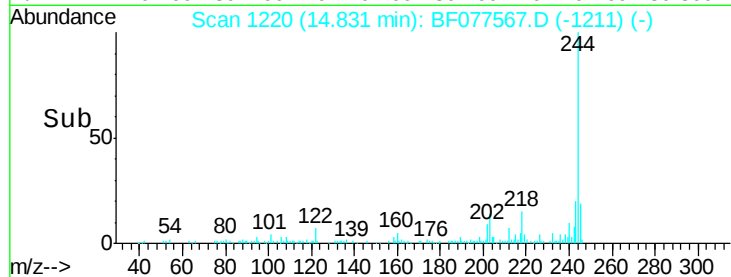
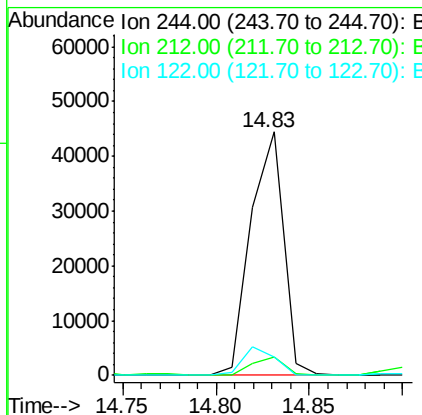
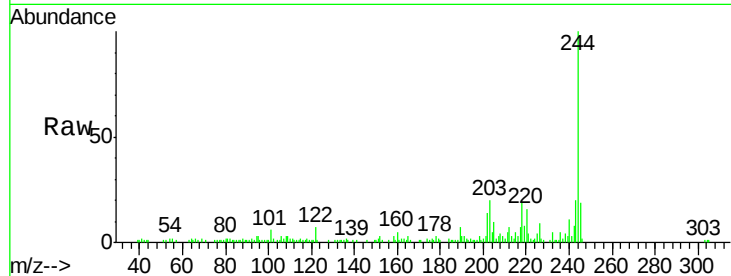
ClientSampleId :

SB4(2-4)DL

Tgt Ion:	244	Resp:	54180
Ion Ratio	Lower	Upper	
244	100		
212	7.4	5.2	7.8
122	7.4	7.8	11.8#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 24.94 ng

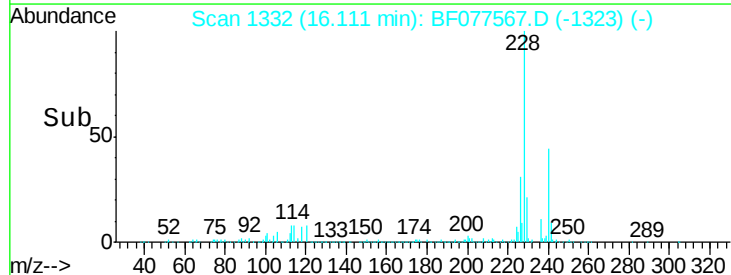
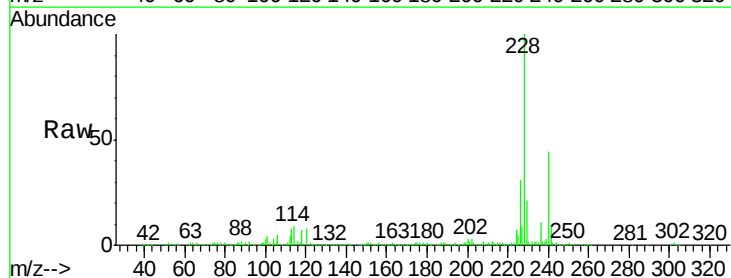
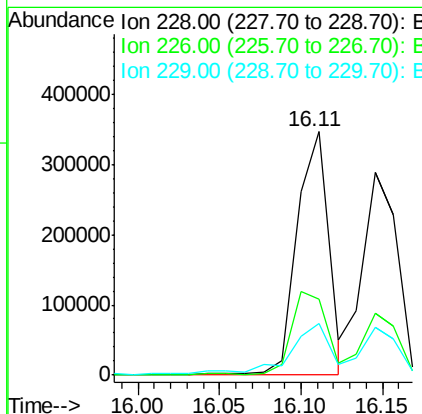
RT: 16.11 min Scan# 1332

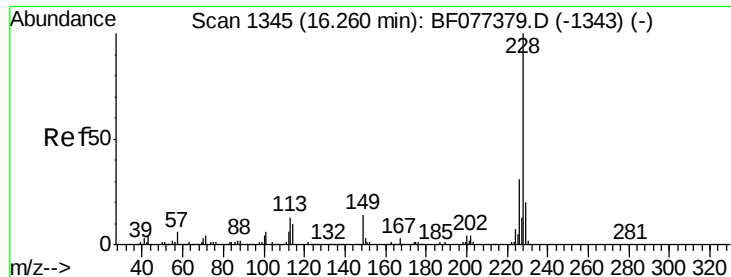
Delta R.T. 0.00 min

Lab File: BF077567.D

Acq: 4 Mar 2015 2:25

Tgt Ion:	228	Resp:	465615
Ion Ratio	Lower	Upper	
228	100		
226	31.0	22.0	33.0
229	21.1	15.8	23.8





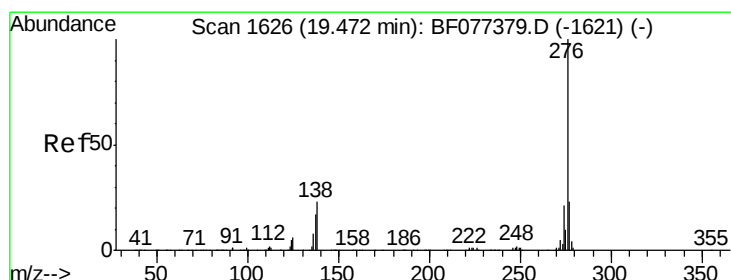
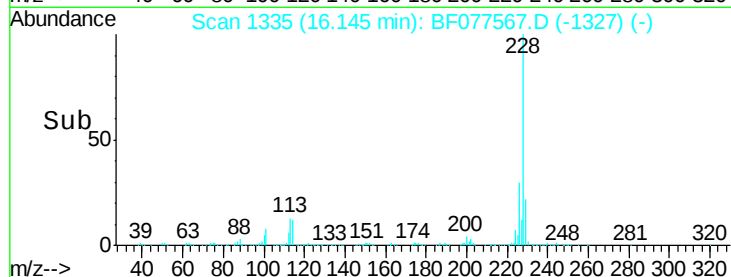
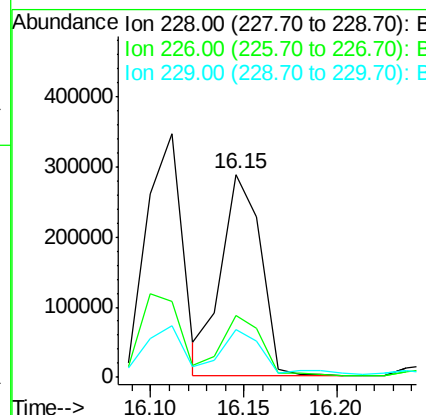
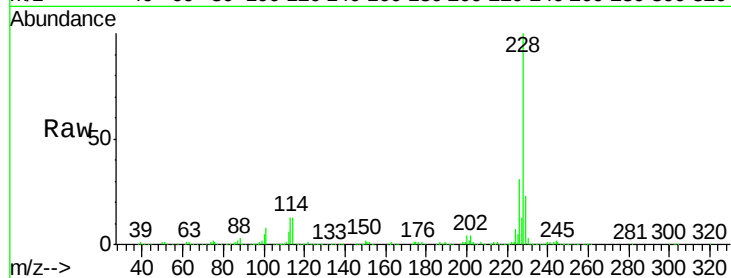
#82
Chrysene
Concen: 23.93 ng
RT: 16.15 min Scan# 1335
Delta R.T. -0.00 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Instrument :
BNA_F
ClientSampleId :
SB4(2-4)DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.9	37.3
229	23.4	16.4	24.6

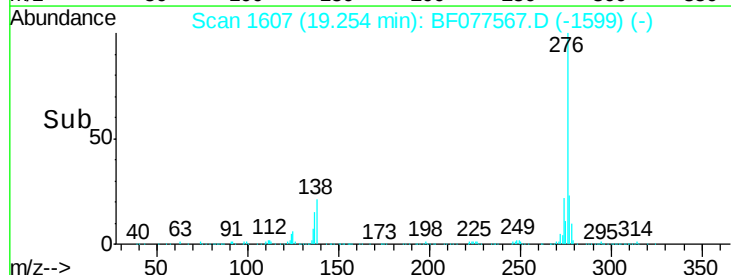
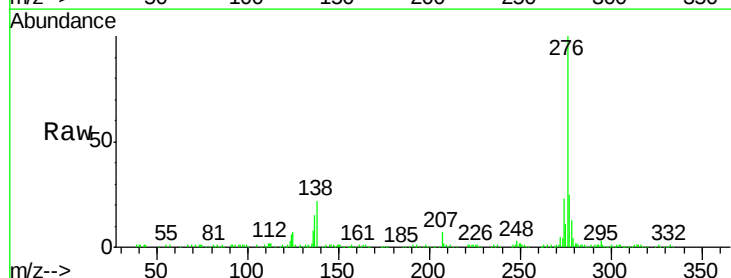
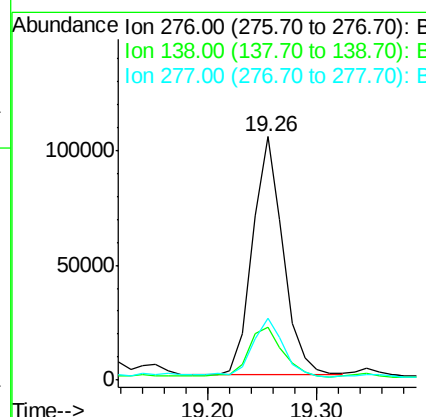
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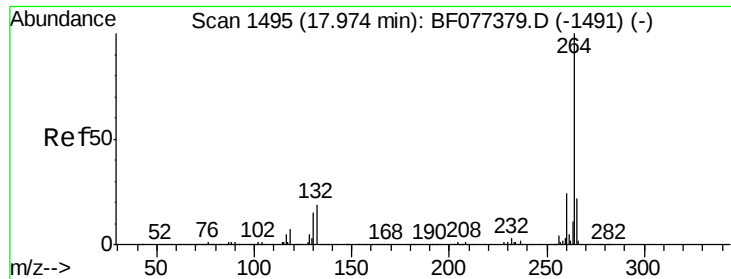
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#85
Indeno(1,2,3-cd)pyrene
Concen: 10.14 ng
RT: 19.26 min Scan# 1607
Delta R.T. -0.01 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.5	21.2	31.8
277	26.0	20.0	30.0





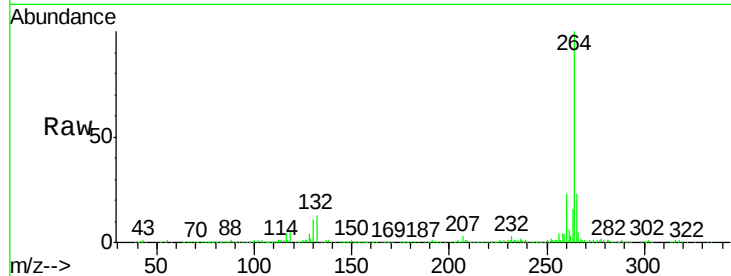
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.82 min Scan# 1482
Delta R.T. 0.00 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Instrument :
BNA_F
ClientSampleId :
SB4(2-4)DL

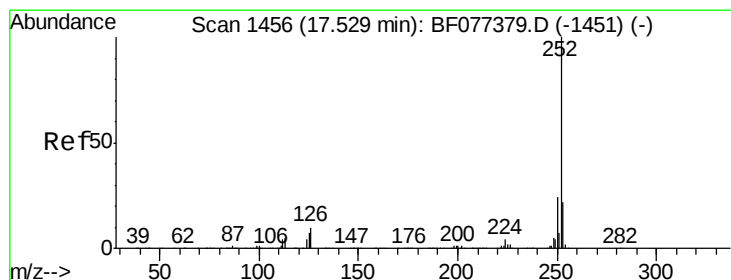
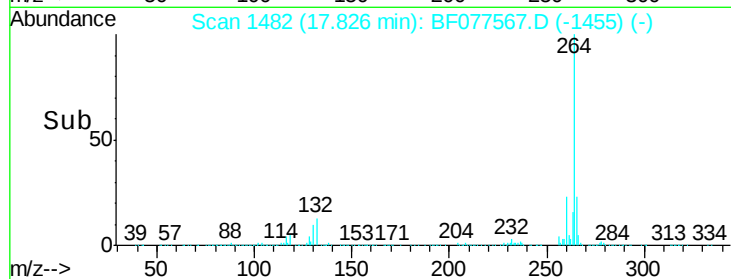
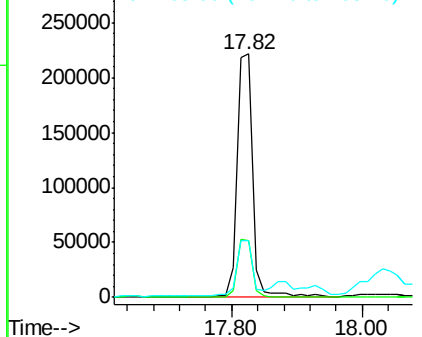
Tgt Ion	Ratio	Resp	Lower	Upper
264	100	356145		
260	23.3	19.3	28.9	
265	23.3	16.8	25.2	

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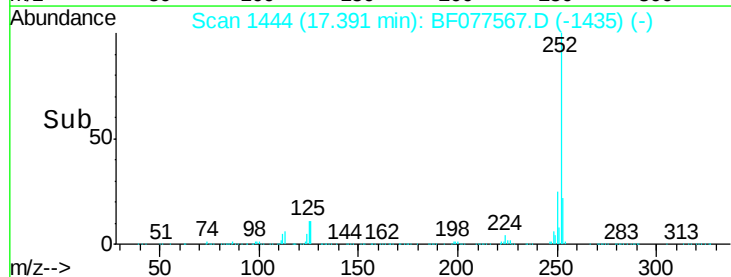
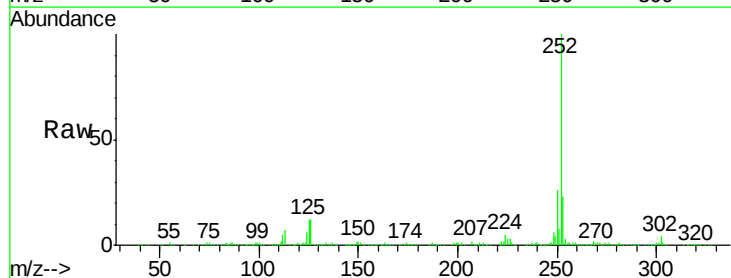
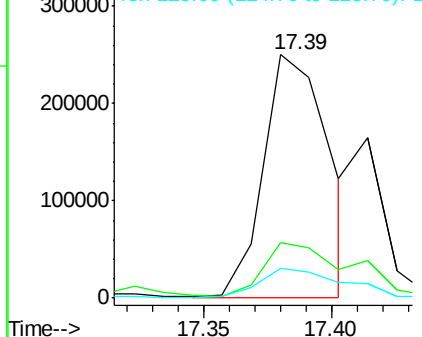
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

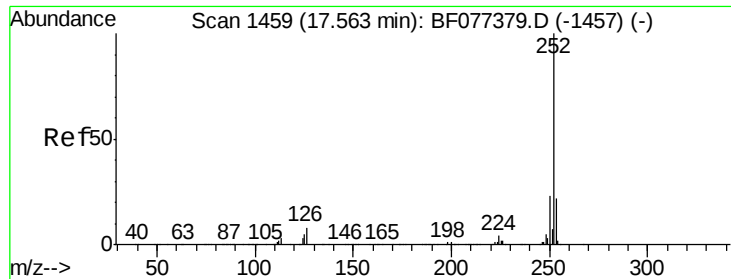


#87
Benzo(b)fluoranthene
Concen: 21.80 ng m
RT: 17.39 min Scan# 1444
Delta R.T. 0.01 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	451482		
253	22.7	17.6	26.4	
125	11.8	5.4	8.2#	

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





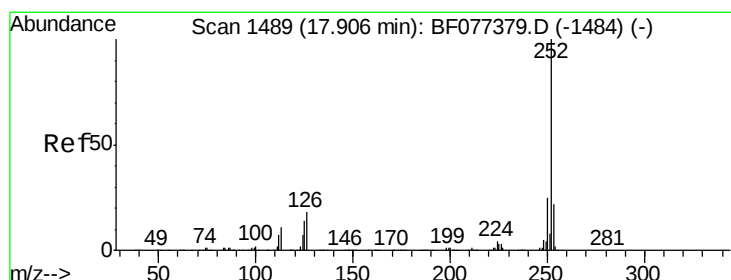
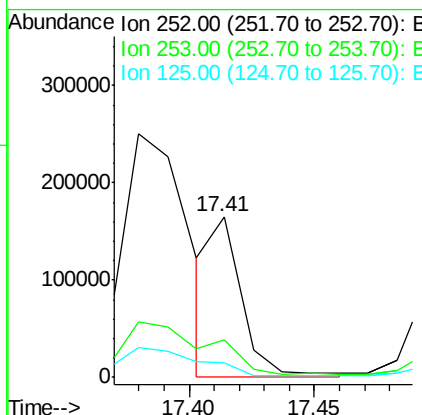
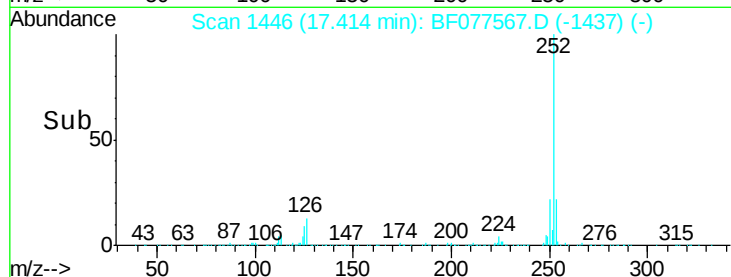
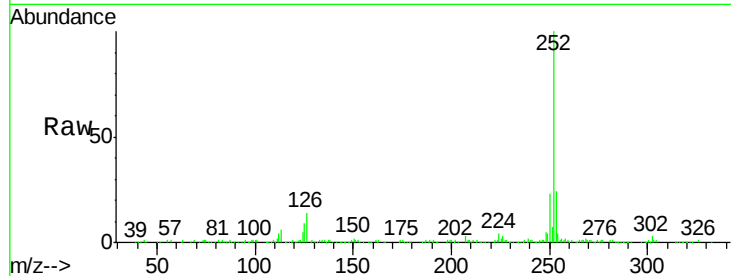
#88
Benzo(k)fluoranthene
Concen: 7.02 ng m
RT: 17.41 min Scan# 1446
Delta R.T. 0.00 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Instrument :
BNA_F
ClientSampleId :
SB4(2-4)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	9.3	10.1	15.1#

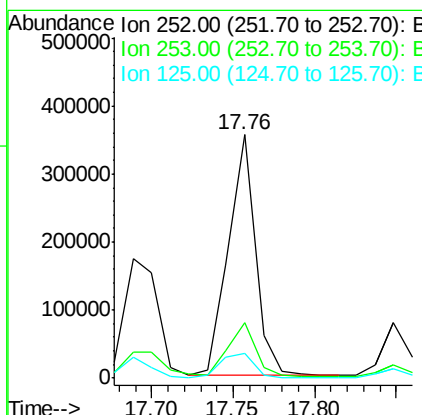
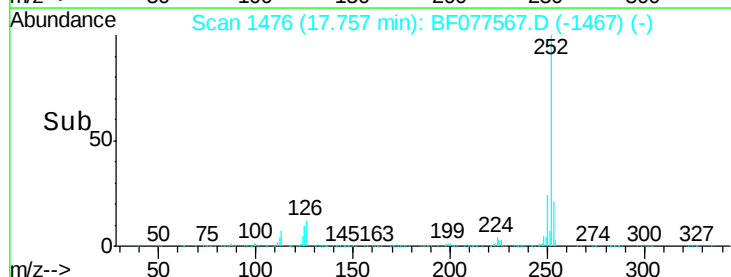
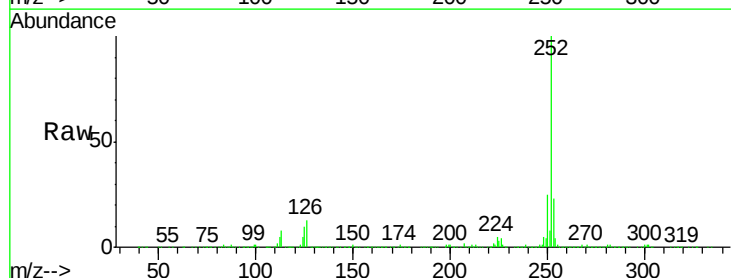
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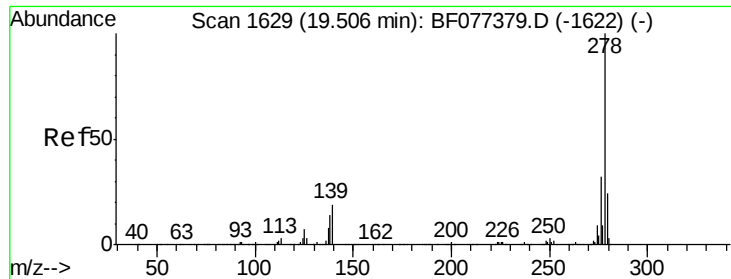
mohammad
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#89
Benzo(a)pyrene
Concen: 20.63 ng
RT: 17.76 min Scan# 1476
Delta R.T. -0.00 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.2
125	9.9	8.3	12.5





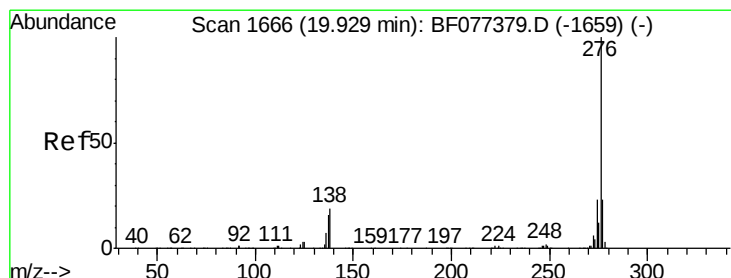
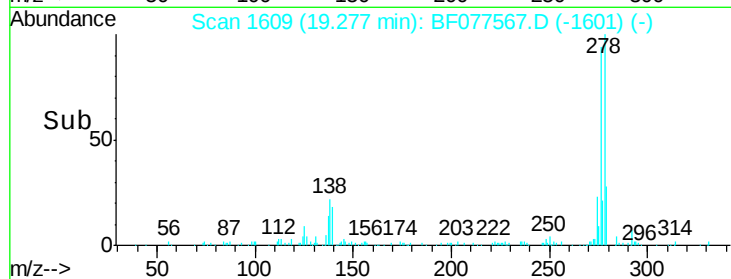
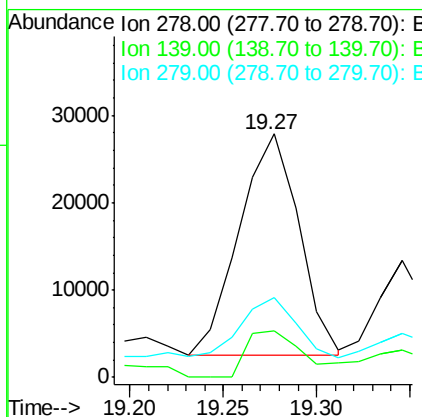
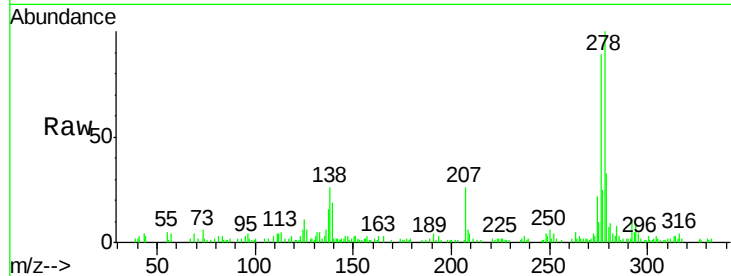
#90
Dibenzo(a,h)anthracene
Concen: 2.98 ng
RT: 19.27 min Scan# 1609
Delta R.T. -0.01 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Instrument :
BNA_F
ClientSampleId :
SB4(2-4)DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.9	14.3	21.5
279	32.8	19.0	28.6

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#91
Benzo(g,h,i)perylene
Concen: 10.68 ng
RT: 19.68 min Scan# 1644
Delta R.T. -0.00 min
Lab File: BF077567.D
Acq: 4 Mar 2015 2:25

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.9	28.3
138	23.7	20.5	30.7

