

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112017\
 Data File : BF100746.D
 Acq On : 20 Nov 2017 22:34
 Operator : SJ/JU
 Sample : I6304-16 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-111617-C

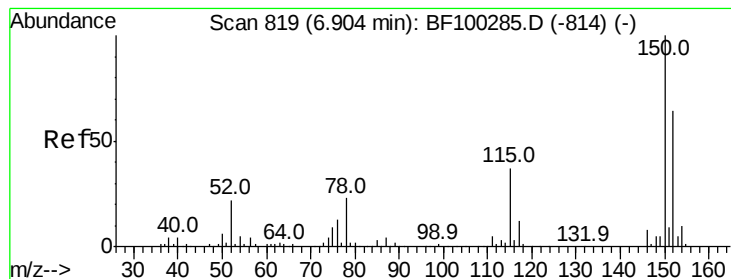
Manual Integrations
 APPROVED

SOHIL
 11/21/2017 2:15:46 PM

Quant Time: Nov 21 05:07:34 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 17 15:22:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	100579	20.00	ng	-0.01
21) Naphthalene-d8	8.15	136	384833	20.00	ng	-0.01
38) Acenaphthene-d10	9.91	164	171509	20.00	ng	-0.01
63) Phenanthrene-d10	11.39	188	279715	20.00	ng	-0.01
75) Chrysene-d12	14.03	240	204240	20.00	ng	-0.01
86) Perylene-d12	15.51	264	230033	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	136704	21.79	ng	-0.02
7) Phenol-d6	6.49	99	166995	21.58	ng	-0.02
23) Nitrobenzene-d5	7.43	82	99549	17.10	ng	-0.02
41) 2,4,6-Tribromophenol	10.69	330	37990	21.74	ng	-0.02
44) 2-Fluorobiphenyl	9.22	172	218316	19.38	ng	-0.02
78) Terphenyl-d14	12.97	244	145650	16.39	ng	-0.01
Target Compounds						
57) Fluorene	10.45	166	38273	3.437	ng	98
70) Phenanthrene	11.42	178	264934	17.989	ng	99
71) Anthracene	11.47	178	81814	5.476	ng	97
74) Fluoranthene	12.60	202	360544	23.100	ng	98
77) Pyrene	12.83	202	302847	20.801	ng	99
80) Benzo(a)anthracene	14.02	228	167100	13.586	ng	97
82) Chrysene	14.06	228	136004	11.419	ng	97
85) Indeno(1,2,3-cd)pyrene	16.98	276	75585	7.846	ng	# 89
87) Benzo(b)fluoranthene	15.07	252	209488m	15.372	ng	
88) Benzo(k)fluoranthene	15.10	252	60677m	4.712	ng	
89) Benzo(a)pyrene	15.44	252	142529	11.797	ng	99
90) Dibenzo(a,h)anthracene	16.99	278	20728m	2.098	ng	
91) Benzo(a,h,i)perylene	17.43	276	67736	7.003	ng	# 94

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



#1

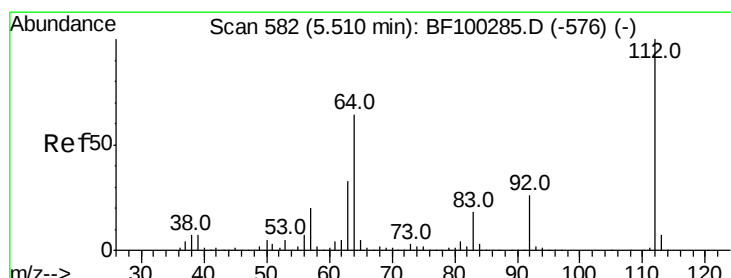
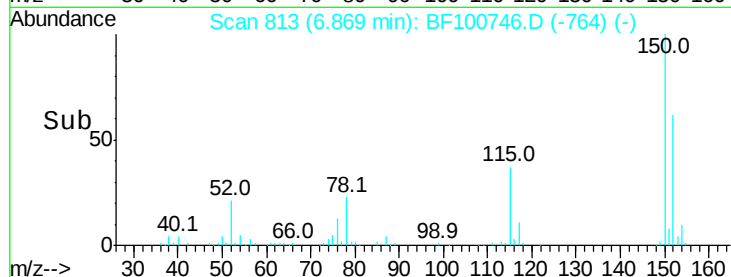
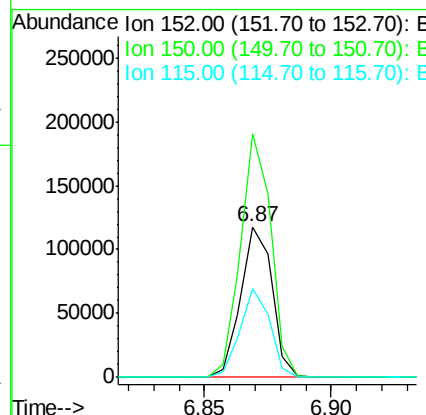
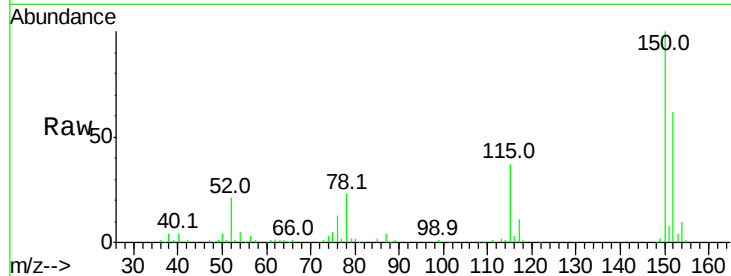
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.01 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Instrument :
BNA_F
ClientSampleId :
CL-01-111617-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.1	124.6	186.8
115	59.2	50.1	75.1

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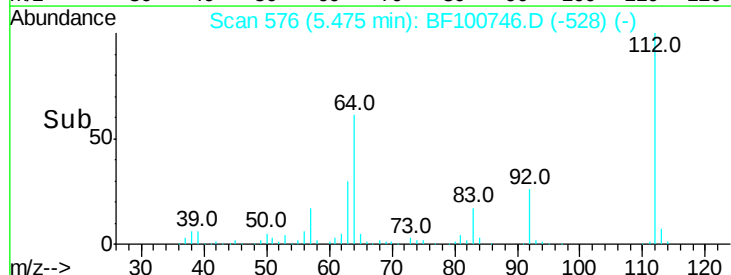
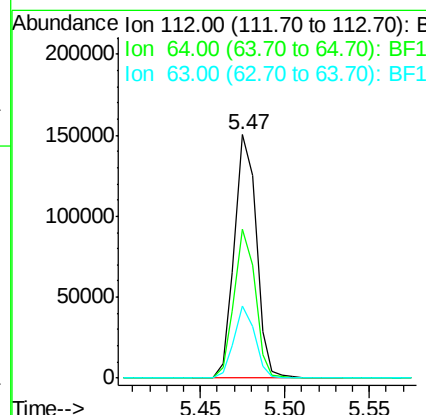
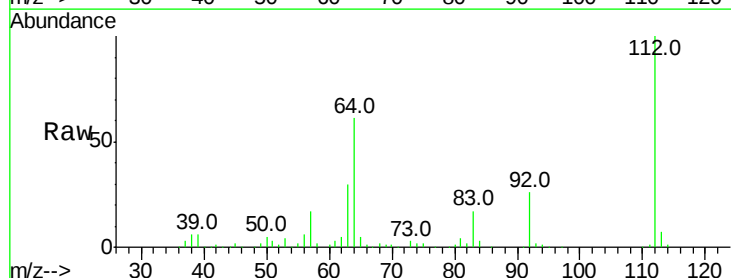
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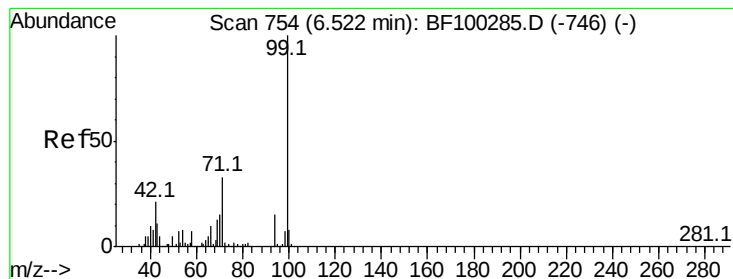


#5

2-Fluorophenol
Concen: 21.787 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.02 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.4	47.9	71.9
63	29.6	23.7	35.5





#7

Phenol-d6

Concen: 21.583 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.02 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Instrument :

BNA_F

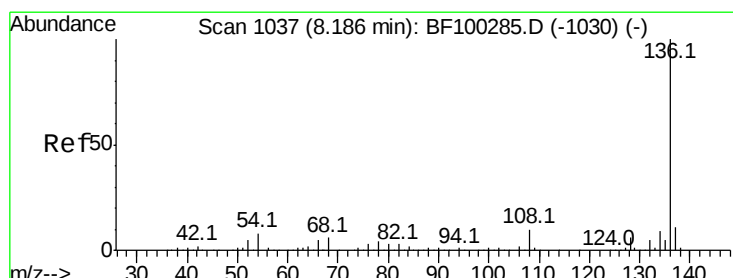
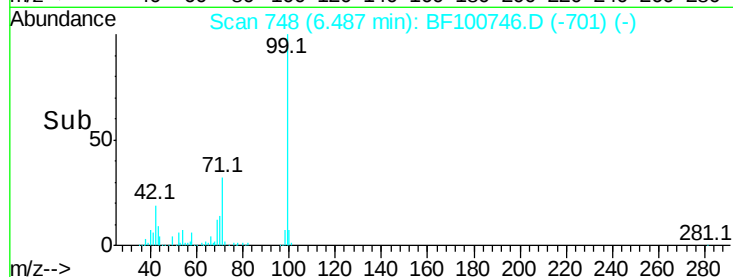
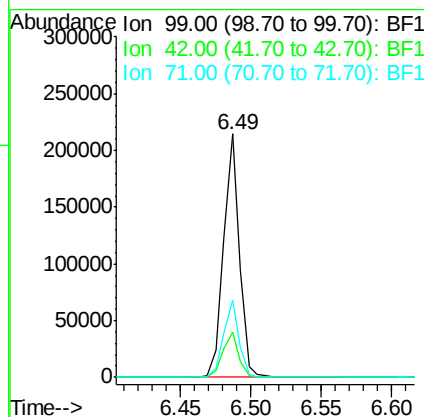
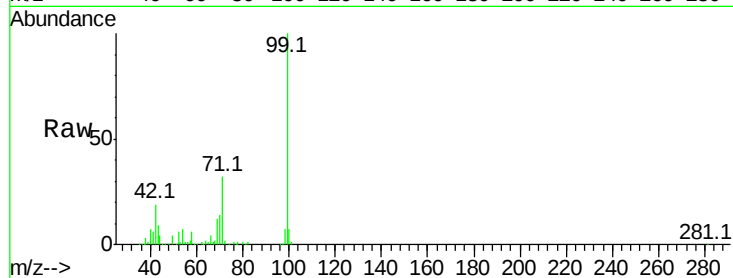
ClientSampleId :

CL-01-111617-C

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		166995		
42	18.8	14.5	21.7		
71	31.8	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

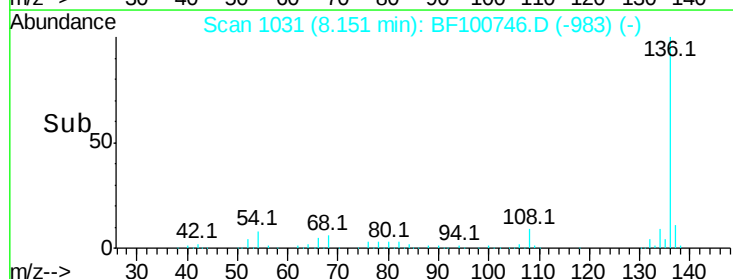
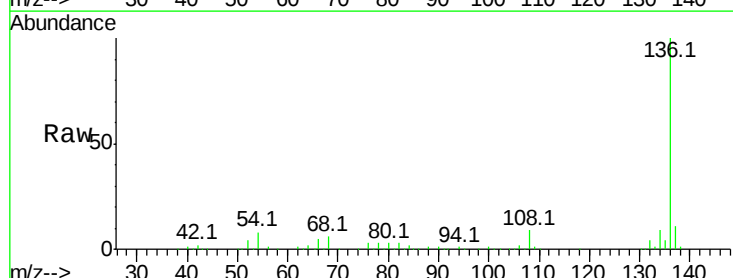
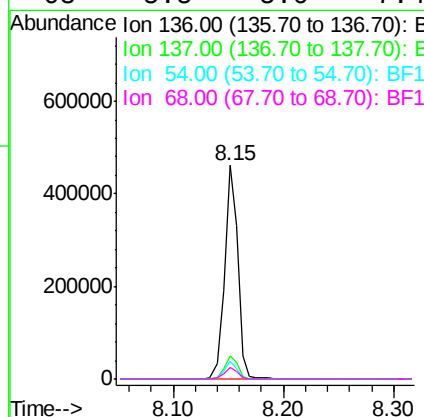
RT: 8.15 min Scan# 1031

Delta R.T. -0.02 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		384833		
137	10.9	8.9	13.3		
54	8.2	6.6	9.8		
68	5.5	5.0	7.4		





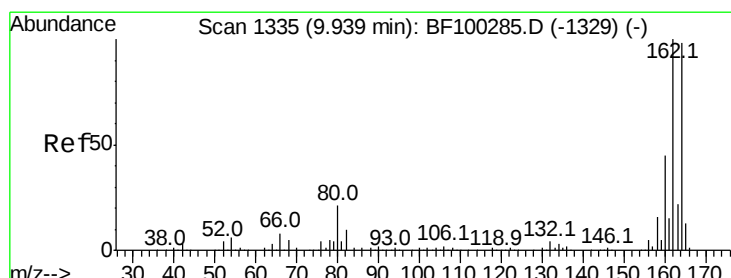
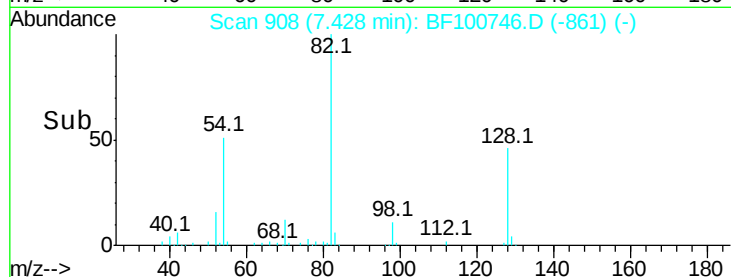
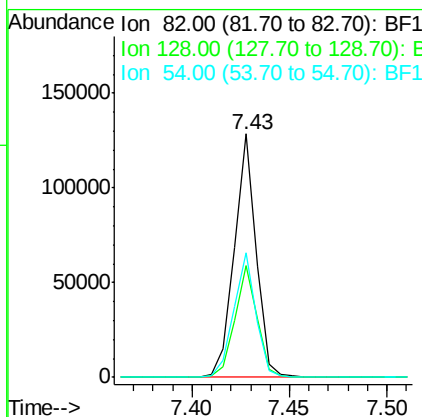
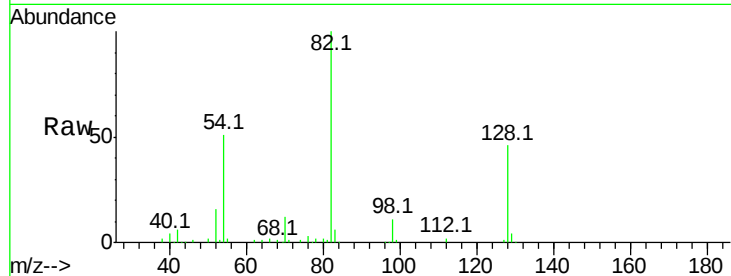
#23
Nitrobenzene-d5
Concen: 17.102 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.02 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Instrument :
BNA_F
ClientSampleId :
CL-01-111617-C

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.1	54.1
54	51.2	41.4	62.2

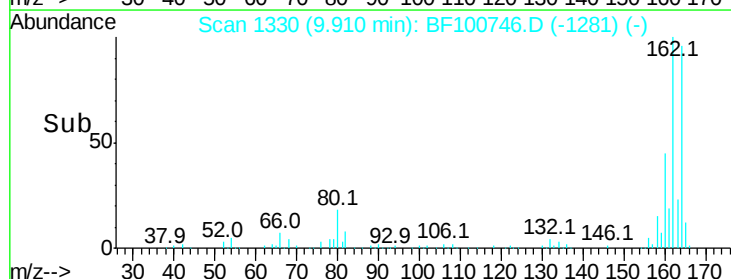
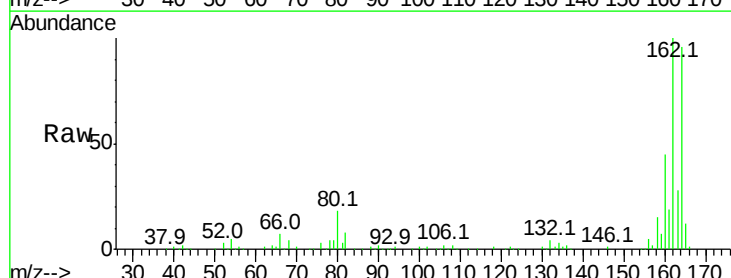
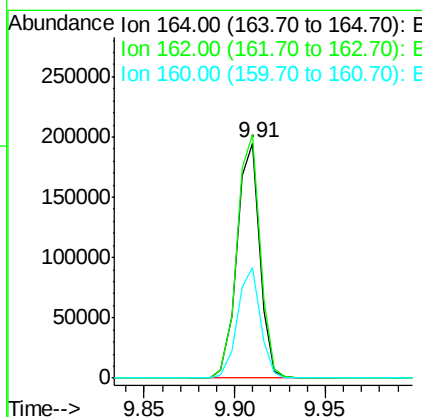
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	86.1	129.1
160	46.9	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 21.737 ng

RT: 10.69 min Scan# 1463

Delta R.T. -0.02 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Instrument :

BNA_F

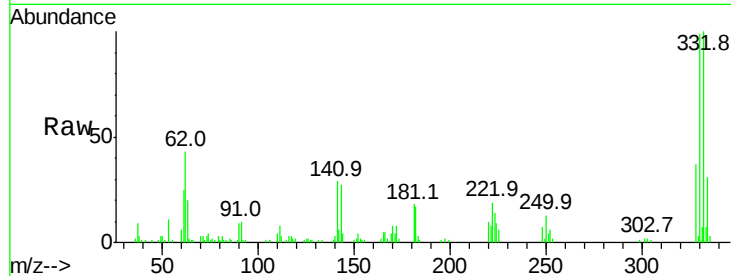
ClientSampleId :

CL-01-111617-C

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.0	115.6
141	29.8	29.9	44.9#

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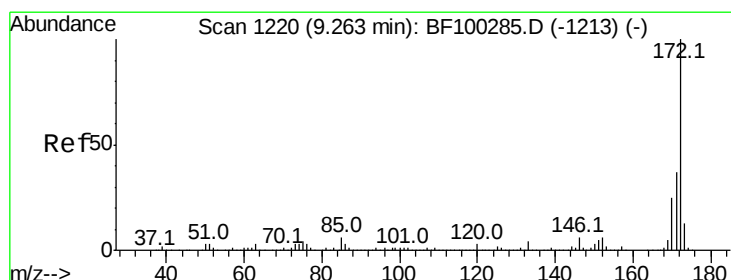
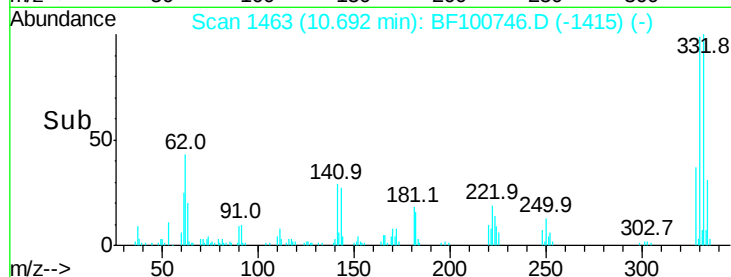
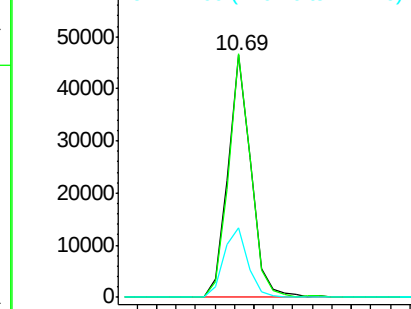


Abundance

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: 19.383 ng

RT: 9.22 min Scan# 1213

Delta R.T. -0.02 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

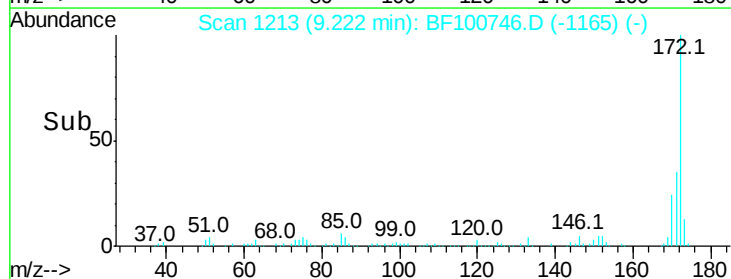
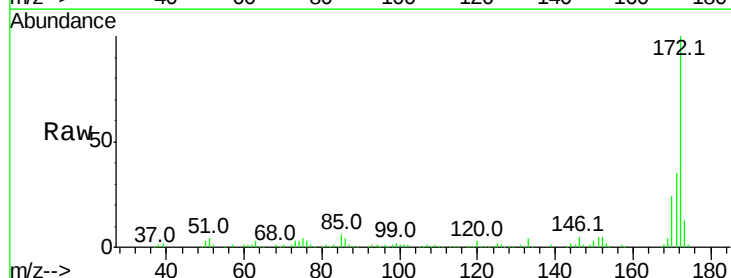
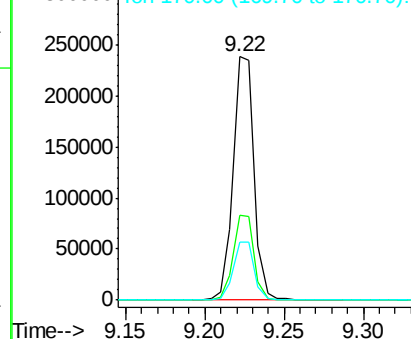
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.7	44.5
170	23.9	19.6	29.4

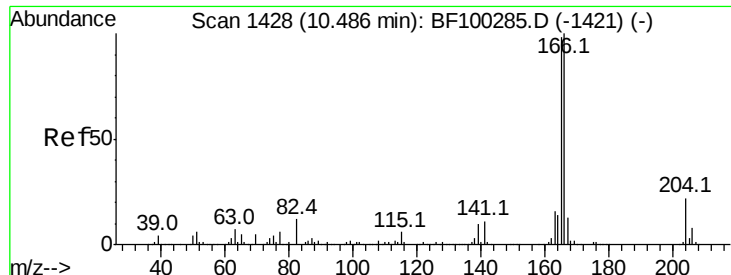
Abundance

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





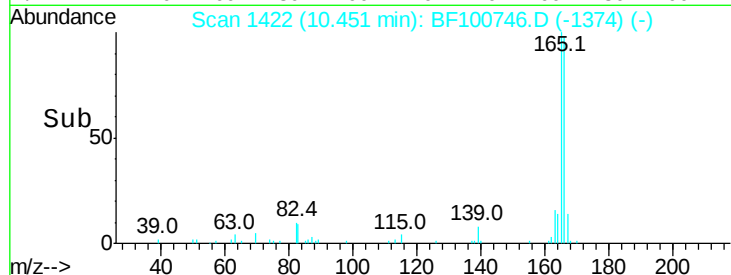
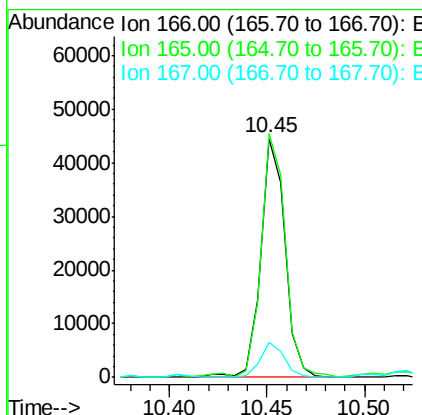
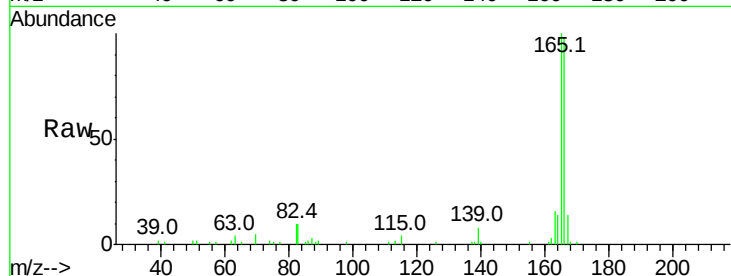
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Fluorene
 Concen: 3.437 ng
 RT: 10.45 min Scan# 1422
 Delta R.T. -0.02 min
 Lab File: BF100746.D
 Acq: 20 Nov 2017 22:34

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-111617-C

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.1	79.8	119.8
167	14.4	10.6	16.0

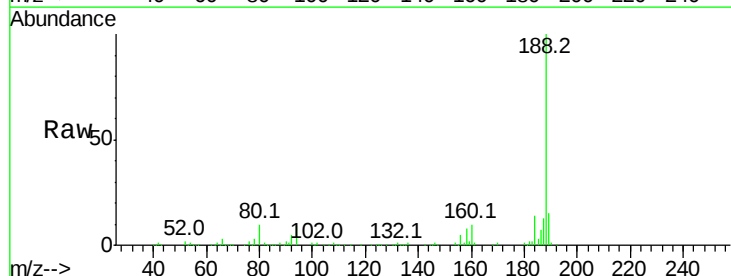
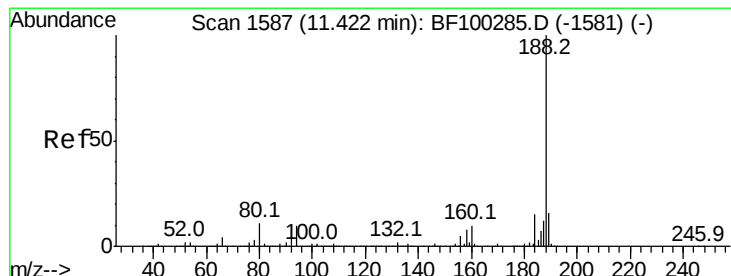
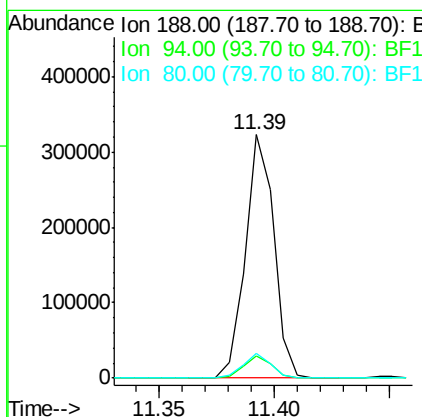
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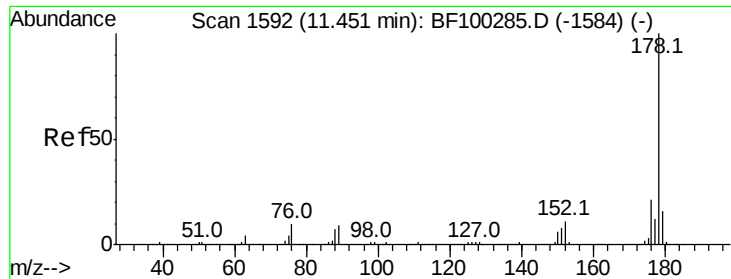
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BF100746.D
 Acq: 20 Nov 2017 22:34

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.5	12.7
80	10.1	9.2	13.8





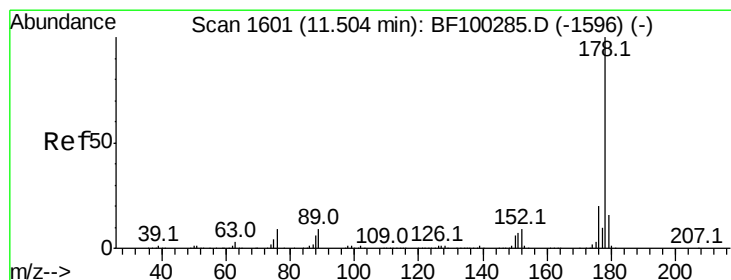
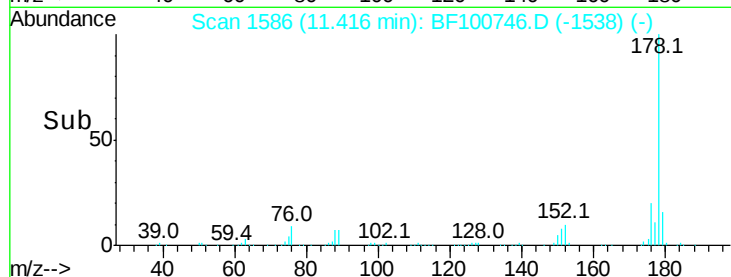
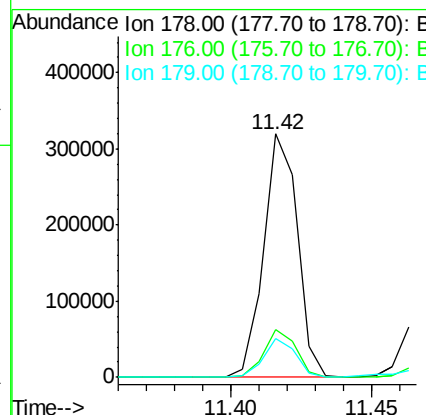
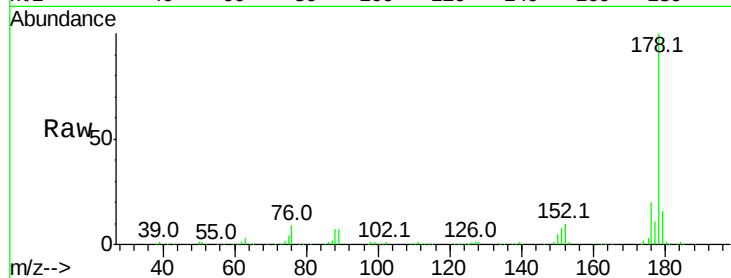
#70
Phenanthrene
Concen: 17.989 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.02 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Instrument :
BNA_F
ClientSampleId :
CL-01-111617-C

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.9	13.0	19.6

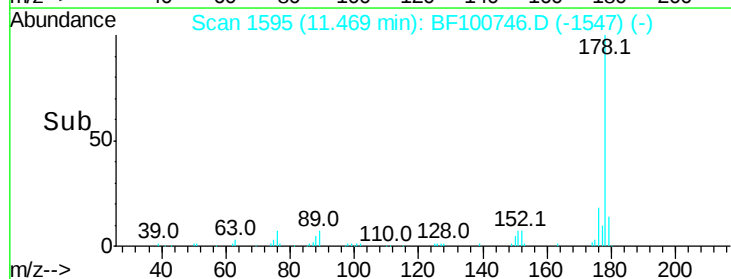
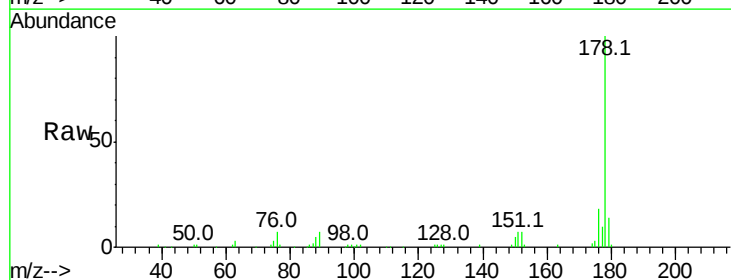
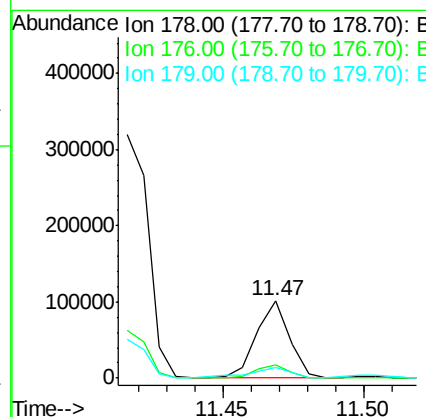
Manual Integrations
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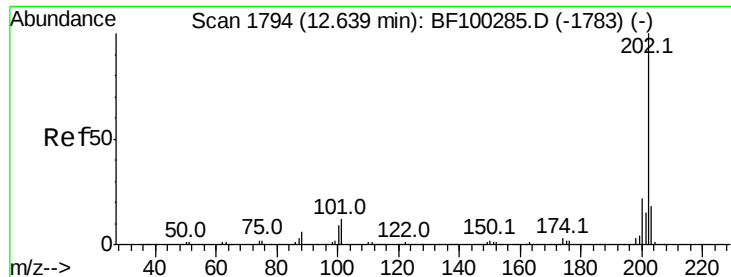
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#71
Anthracene
Concen: 5.476 ng
RT: 11.47 min Scan# 1595
Delta R.T. -0.02 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.4	23.2
179	14.5	12.6	19.0





#74

Fluoranthene

Concen: 23.100 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.02 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Instrument :

BNA_F

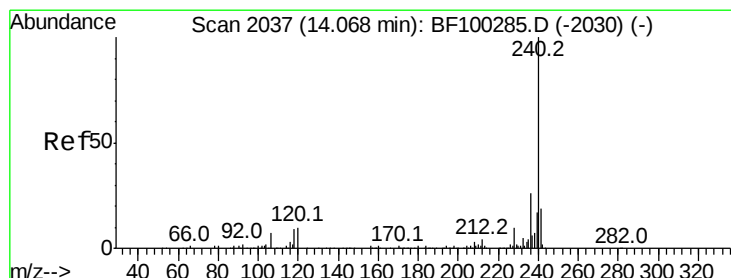
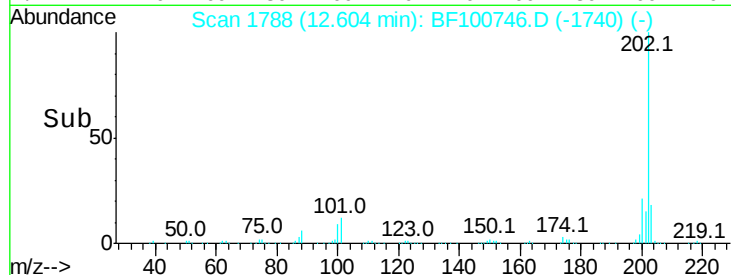
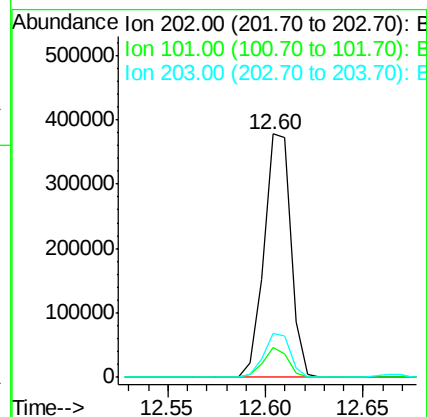
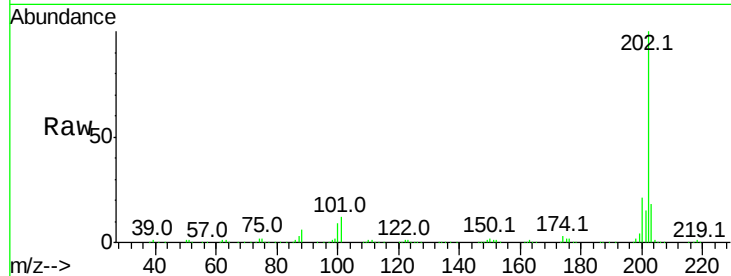
ClientSampleId :

CL-01-111617-C

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.3	0.0	34.1
203	17.9	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

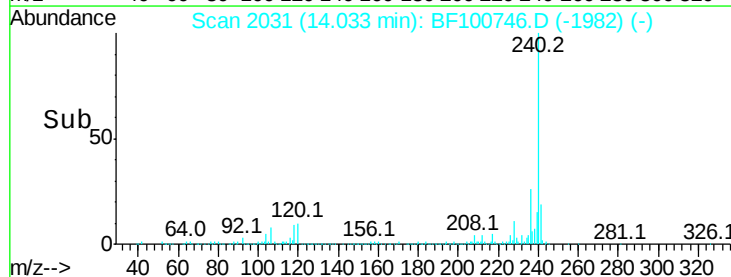
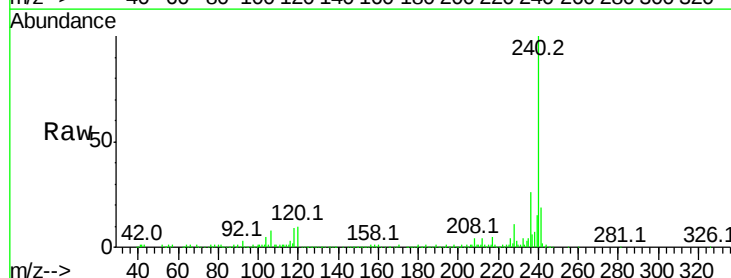
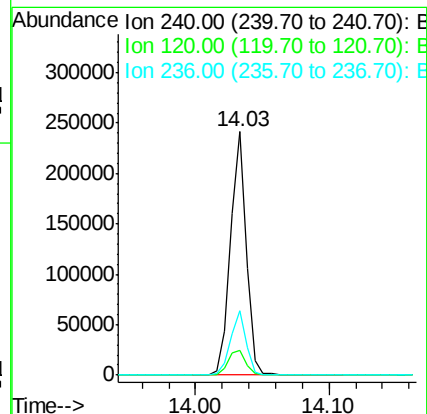
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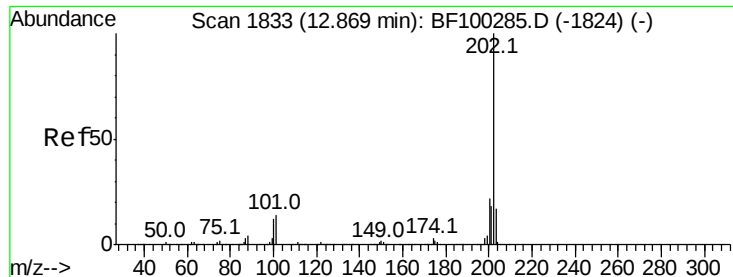
Delta R.T. -0.01 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.2	9.5	14.3
236	26.2	20.7	31.1





#77

Pvrene

Concen: 20.801 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Instrument :

BNA_F

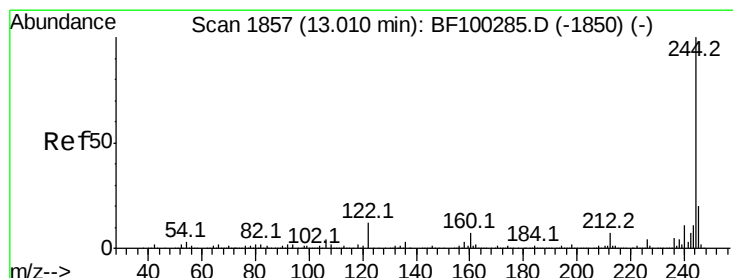
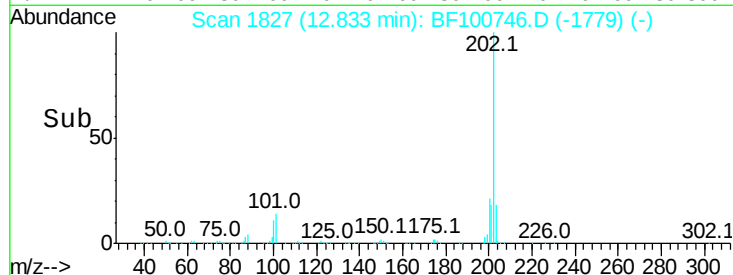
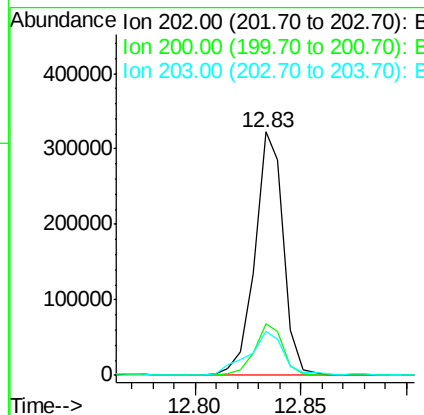
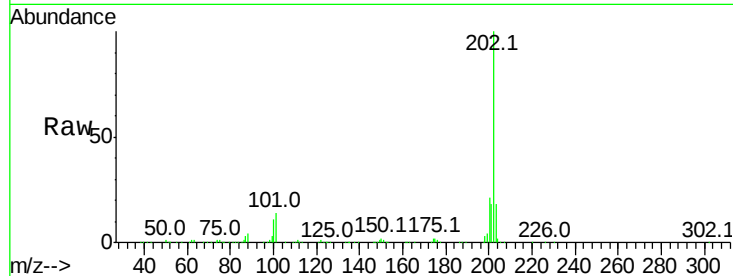
ClientSampleId :

CL-01-111617-C

Tot Ion:	202	Resp:	302847
Ion Ratio		Lower	Upper
202	100		
200	21.2	17.4	26.2
203	18.0	14.3	21.5

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#78

Terphenyl-d14

Concen: 16.386 ng

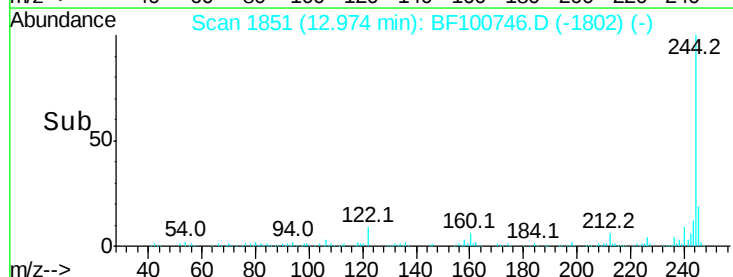
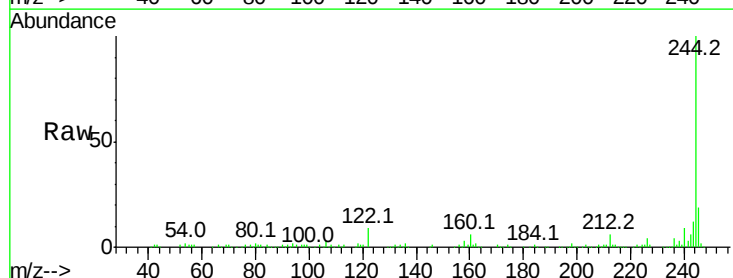
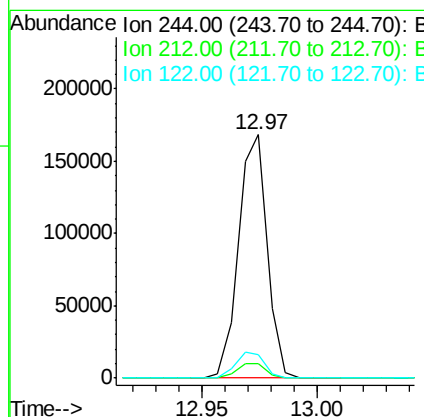
RT: 12.97 min Scan# 1851

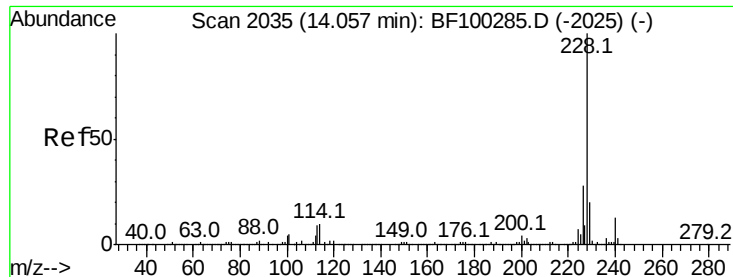
Delta R.T. -0.01 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Tgt Ion:	244	Resp:	145650
Ion Ratio		Lower	Upper
244	100		
212	5.9	5.4	8.0
122	9.4	11.0	16.4#





#80

Benzo(a)anthracene

Concen: 13.586 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Instrument :

BNA_F

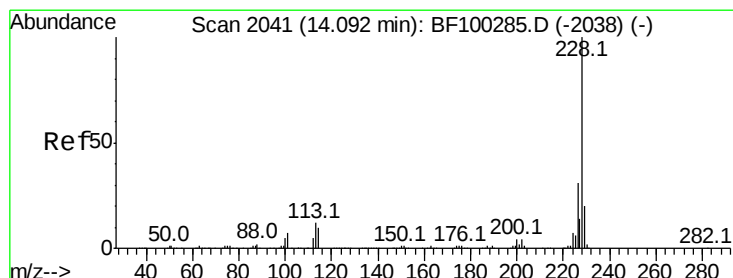
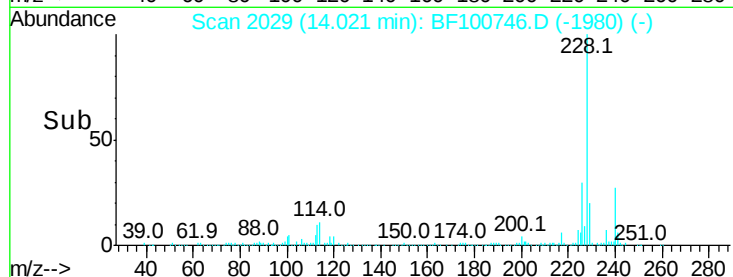
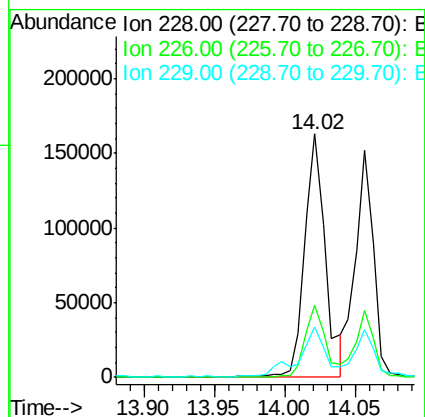
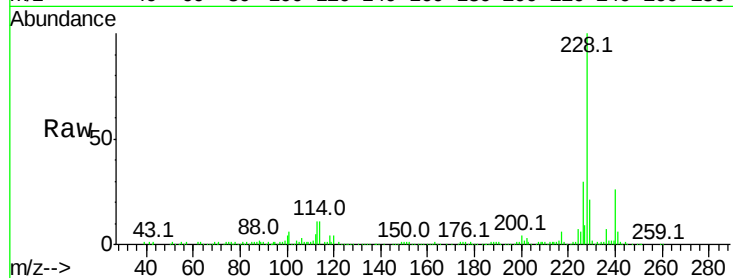
ClientSampleId :

CL-01-111617-C

Tot Ion:	228	Resp:	167100
Ion Ratio	Lower	Upper	
228	100		
226	29.8	22.6	33.8
229	20.6	15.8	23.6

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#82

Chrysene

Concen: 11.419 ng

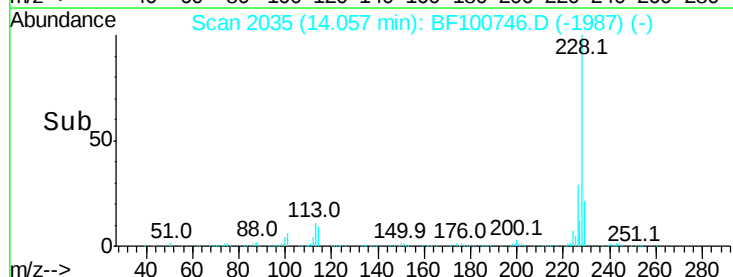
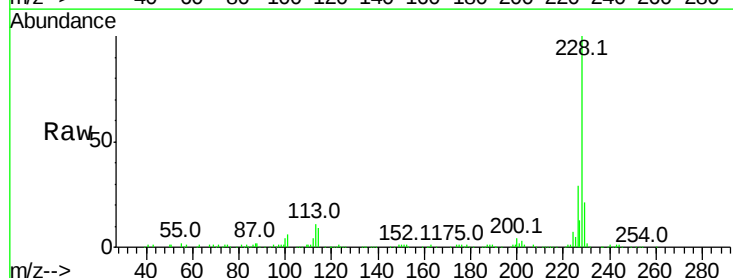
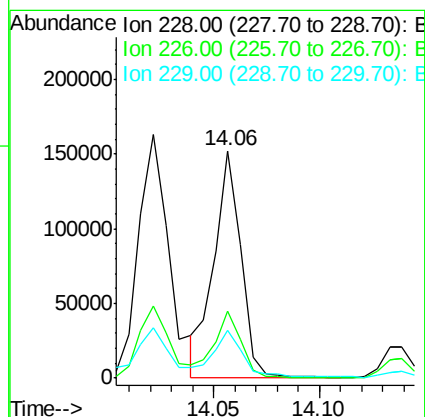
RT: 14.06 min Scan# 2035

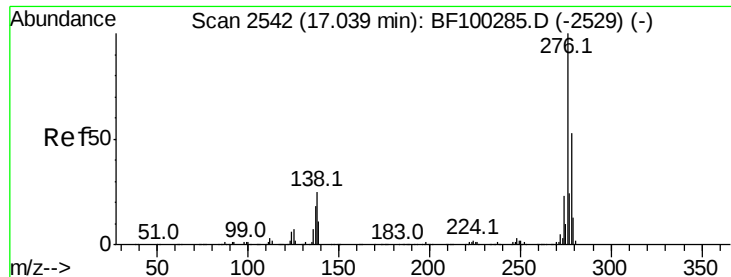
Delta R.T. -0.02 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Tgt Ion:	228	Resp:	136004
Ion Ratio	Lower	Upper	
228	100		
226	29.2	25.0	37.6
229	21.1	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 7.846 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.02 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Instrument :

BNA_F

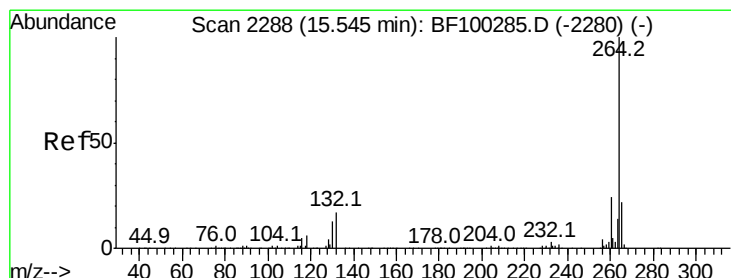
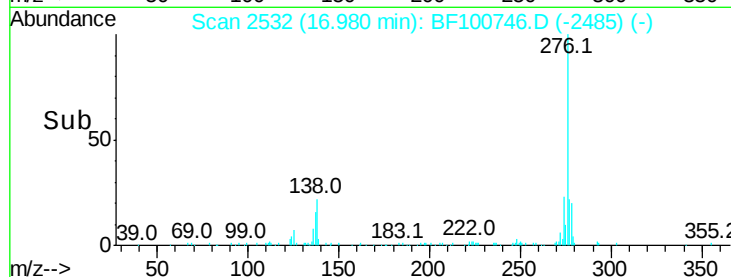
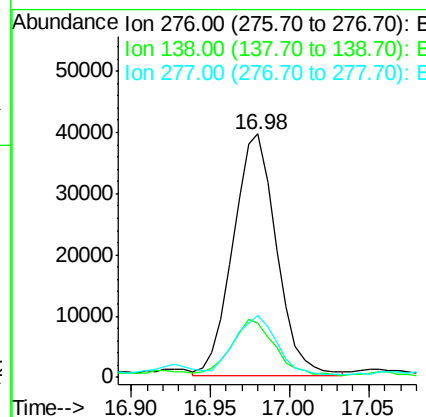
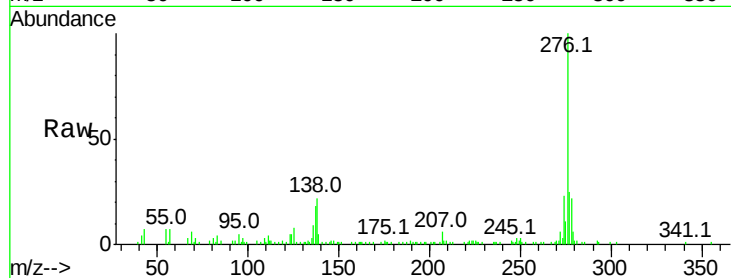
ClientSampleId :

CL-01-111617-C

Tot Ion:	276	Resp:	75585
Ion Ratio	Lower	Upper	
276	100		
138	22.6	25.0	37.6#
277	23.0	20.1	30.1

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#86

Perylene-d12

Concen: 20.000 ng

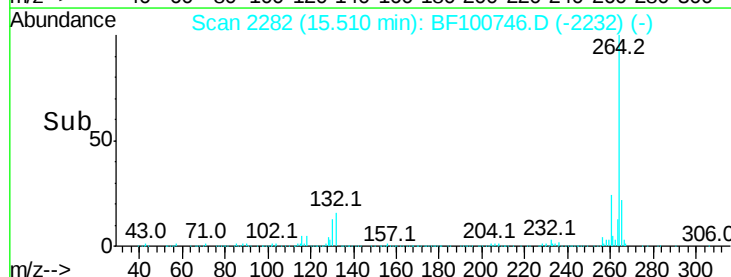
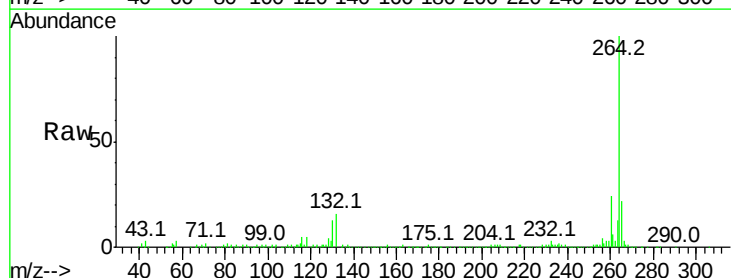
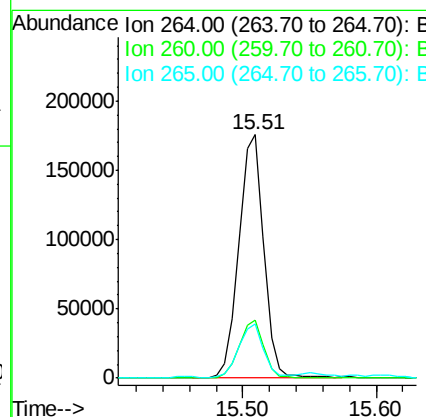
RT: 15.51 min Scan# 2282

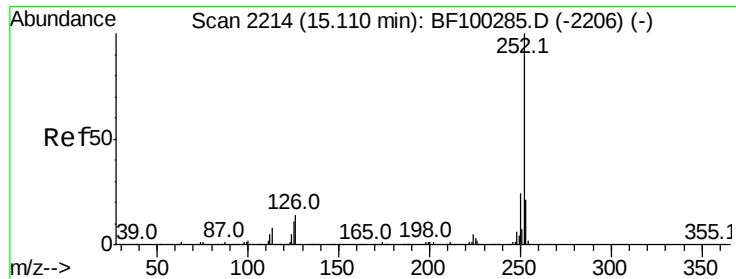
Delta R.T. -0.01 min

Lab File: BF100746.D

Acq: 20 Nov 2017 22:34

Tgt Ion:	264	Resp:	230033
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.2	28.8
265	22.2	17.5	26.3





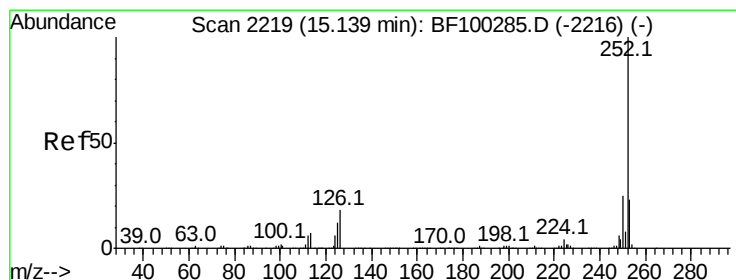
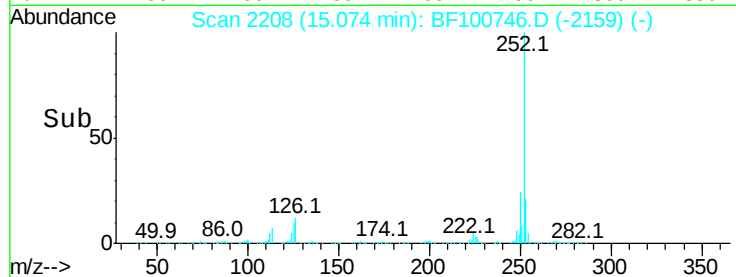
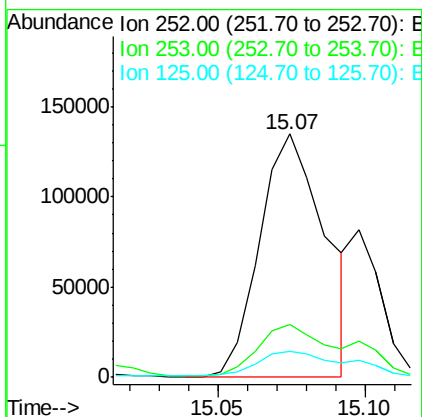
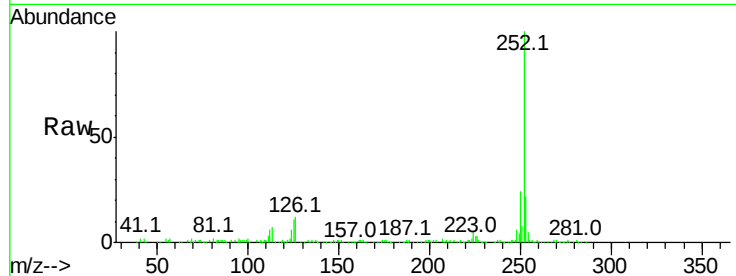
#87
Benzo(b)fluoranthene
Concen: 15.372 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.01 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Instrument :
BNA_F
ClientSampleId :
CL-01-111617-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.0	25.6
125	10.7	9.0	13.6

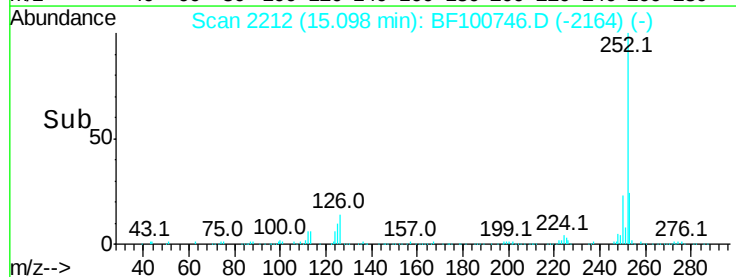
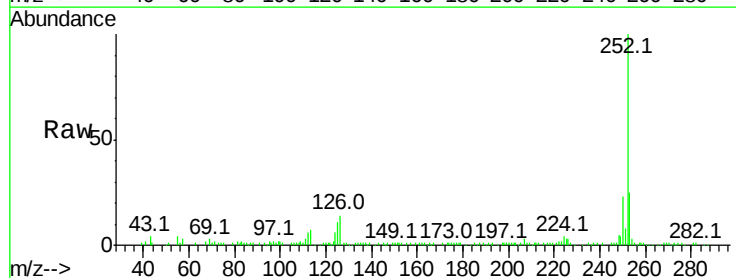
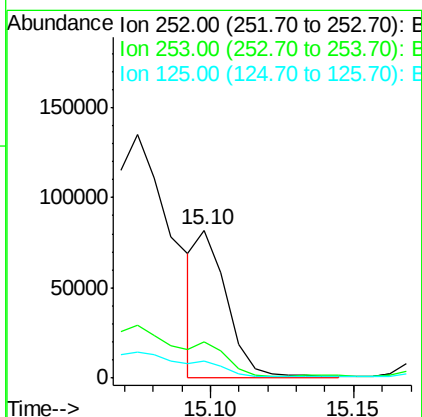
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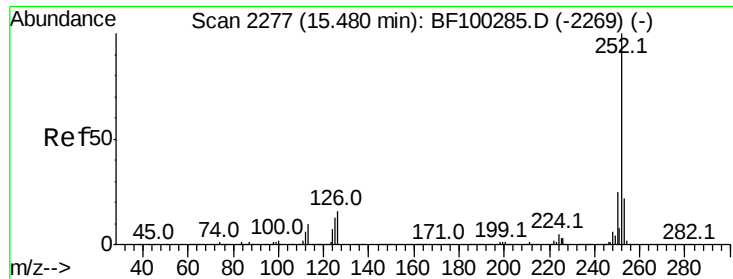
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#88
Benzo(k)fluoranthene
Concen: 4.712 ng m
RT: 15.10 min Scan# 2212
Delta R.T. -0.02 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	11.3	10.2	15.2





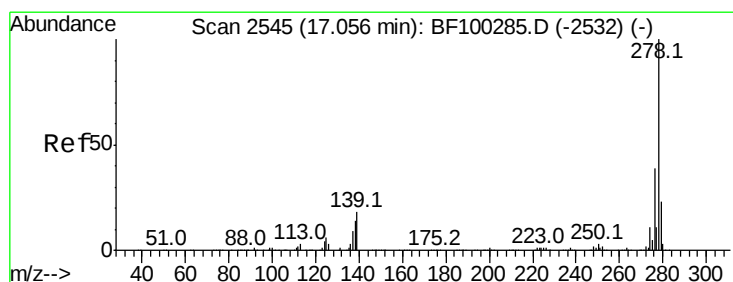
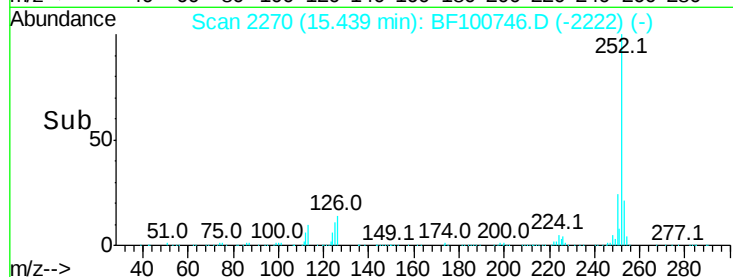
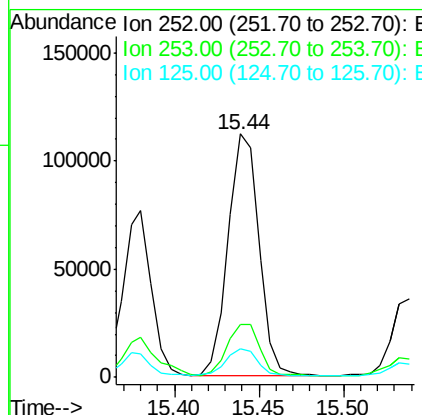
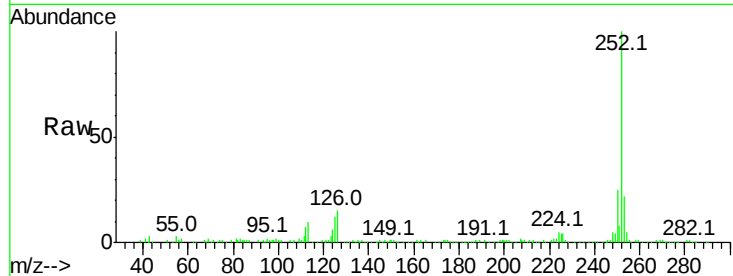
#89
Benzo(a)pyrene
Concen: 11.797 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Instrument :
BNA_F
ClientSampleId :
CL-01-111617-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	11.7	9.8	14.6

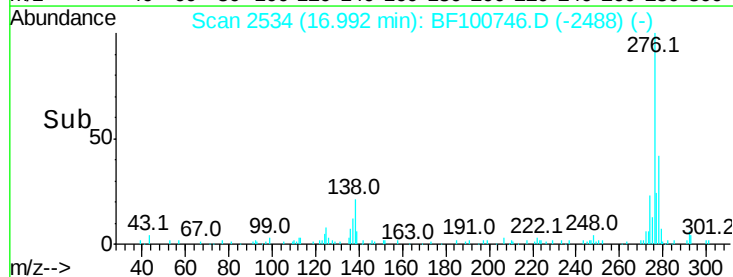
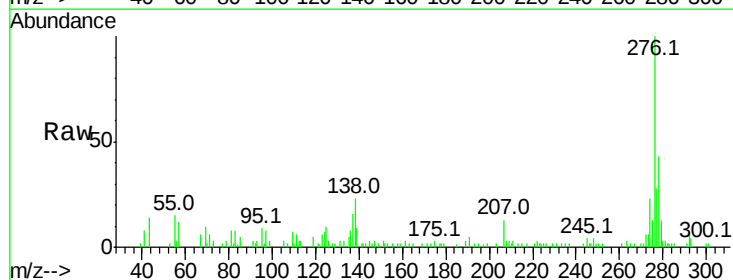
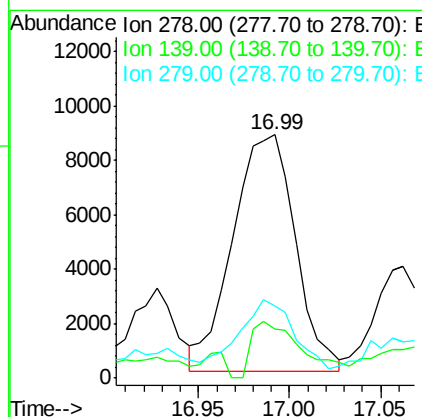
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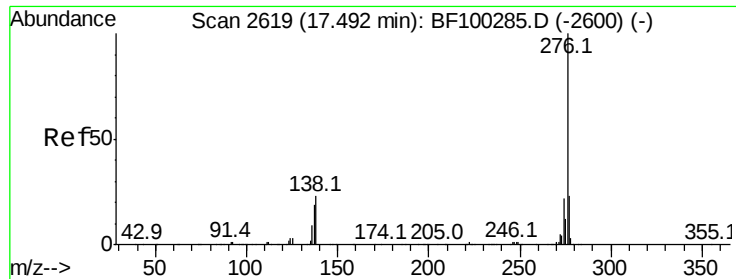
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#90
Dibenzo(a,h)anthracene
Concen: 2.098 ng m
RT: 16.99 min Scan# 2534
Delta R.T. -0.03 min
Lab File: BF100746.D
Acq: 20 Nov 2017 22:34

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.1	15.9	23.9
279	29.6	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 7.003 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. -0.03 min
 Lab File: BF100746.D
 Acq: 20 Nov 2017 22:34

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-111617-C

Tot Ion:	276	Resp:	67736
Ion Ratio		Lower	Upper
276	100		
277	23.1	17.9	26.9
138	21.8	21.8	32.8#

Manual Integrations
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