

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
 Data File : BF090883.D
 Acq On : 27 Oct 2016 22:52
 Operator : UM/SJ
 Sample : H5411-02
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-01-5.5-6.0-DUP

Manual Integrations
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Quant Time: Oct 28 12:54:54 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 27 18:46:43 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	138259	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	587358	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	316419	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	408512	20.00	ng	-0.01
75) Chrysene-d12	13.94	240	334953	20.00	ng	-0.01
86) Perylene-d12	15.36	264	397989	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	909472	115.01	ng	0.00
7) Phenol-d6	6.41	99	992665	93.05	ng	-0.01
23) Nitrobenzene-d5	7.33	82	647146	72.13	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	244919	75.32	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	1255678	69.68	ng	-0.01
78) Terphenyl-d14	12.89	244	868091	65.29	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.08	128	392194	14.28	ng	99
37) 2-Methylnaphthalene	8.77	142	213393	12.03	ng	# 91
45) 1,1'-Biphenyl	9.24	154	88649	3.89	ng	97
48) Acenaphthylene	9.68	152	268117	10.21	ng	96
49) Dimethylphthalate	9.54	163	503291	23.81	ng	# 97
51) Acenaphthene	9.85	154	521174	28.83	ng	89
54) Dibenzofuran	10.02	168	677399	29.03	ng	# 88
57) Fluorene	10.36	166	720778	37.72	ng	90
70) Phenanthrene	11.33	178	3857890m	185.45	ng	
71) Anthracene	11.38	178	1496491	68.31	ng	96
72) Carbazole	11.53	167	432044	22.33	ng	# 93
74) Fluoranthene	12.52	202	3446120	151.27	ng	91
77) Pvrene	12.75	202	3458392	163.15	ng	# 91
80) Benzo(a)anthracene	13.93	228	2058601	115.81	ng	# 89
82) Chrysene	13.97	228	1663939	92.54	ng	# 89
85) Indeno(1,2,3-cd)pyrene	16.73	276	1084743	68.08	ng	# 84
87) Benzo(b)fluoranthene	14.97	252	2097342m	78.37	ng	
88) Benzo(k)fluoranthene	14.97	252	993772m	46.99	ng	
89) Benzo(a)pvrene	15.30	252	1990998	86.59	ng	# 87
90) Dibenzo(a,h)anthracene	16.73	278	351530	18.06	ng	# 78
91) Benzo(q,h,i)perylene	17.13	276	983881	53.66	ng	# 78

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

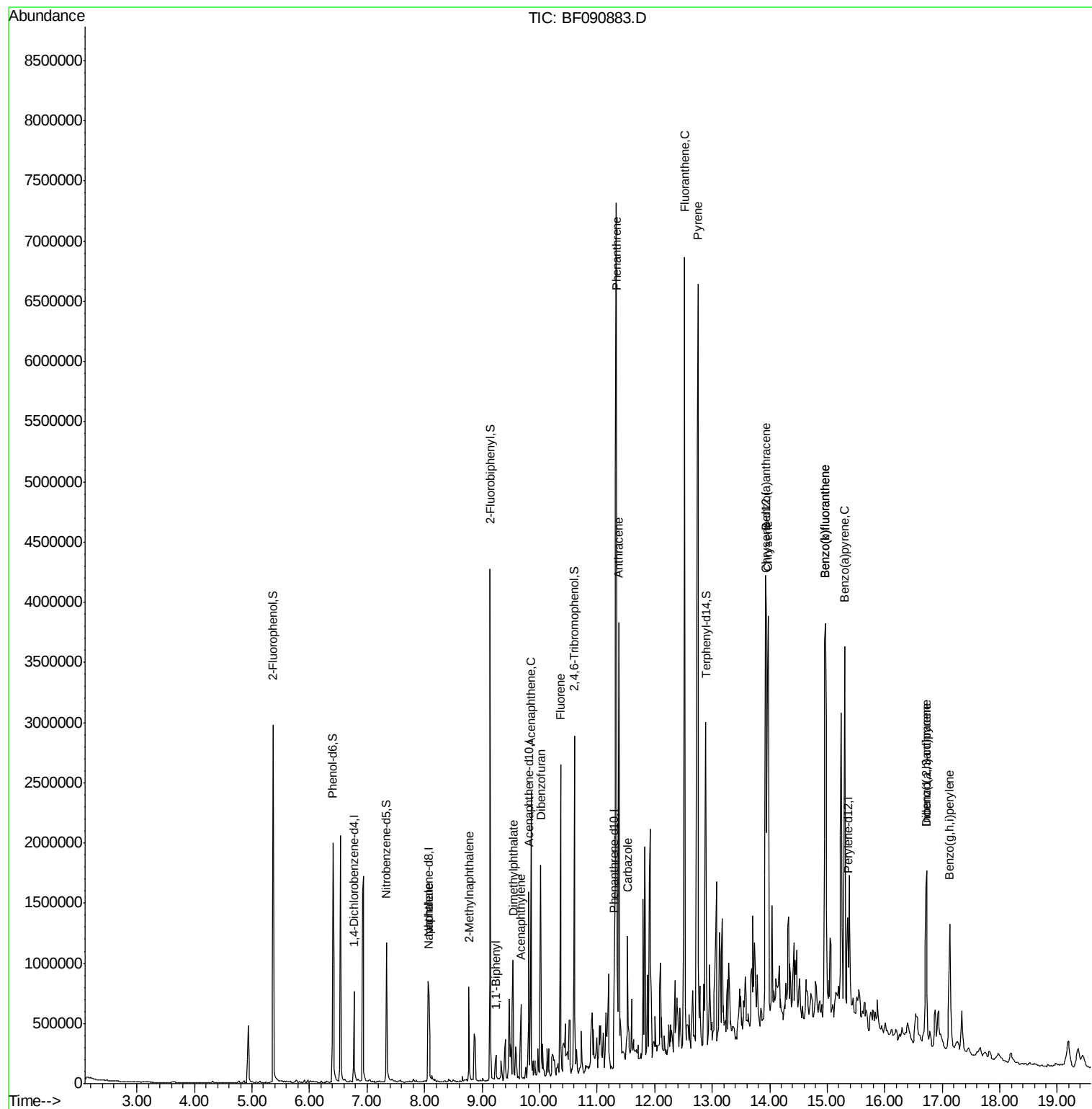
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

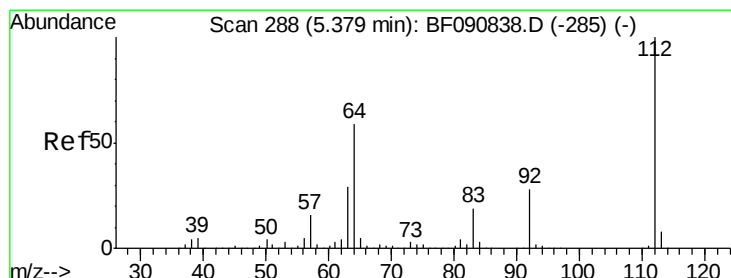
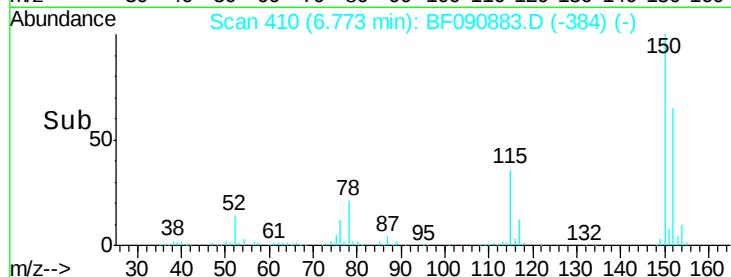
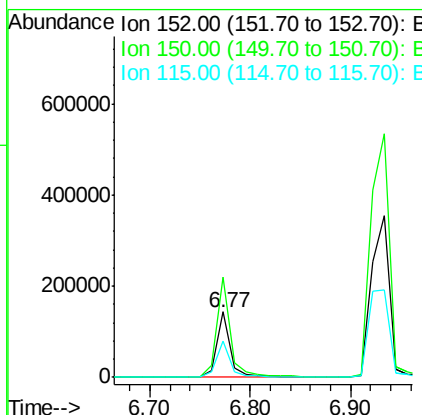
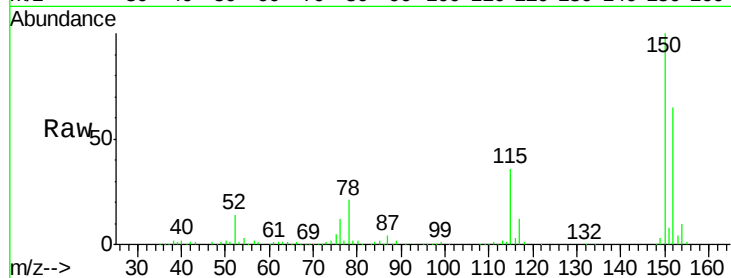
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 410
Delta R.T. 0.00 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Instrument :
BNA_F
ClientSampleId :
SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.7	187.1
115	56.1	39.0	58.4

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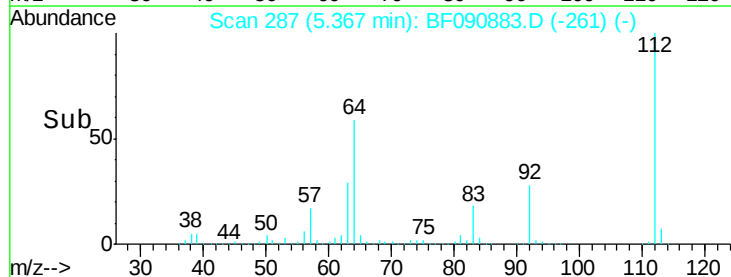
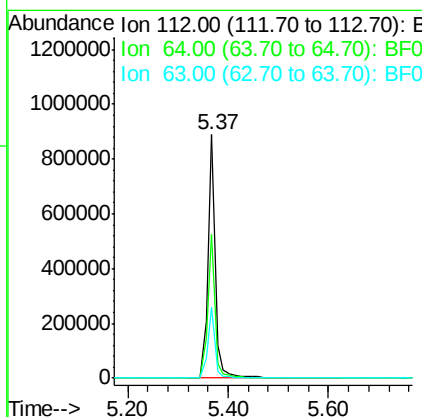
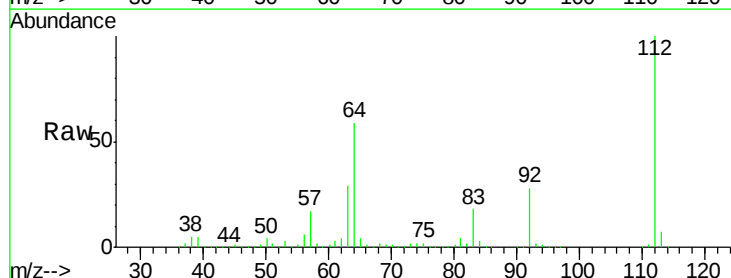
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#5

2-Fluorophenol
Concen: 115.01 ng
RT: 5.37 min Scan# 287
Delta R.T. 0.00 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.1	39.7	59.5
63	29.3	17.4	26.0





#7

Phenol-d6

Concen: 93.05 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Instrument :

BNA_F

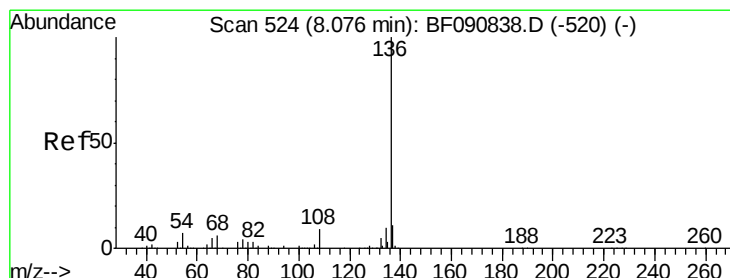
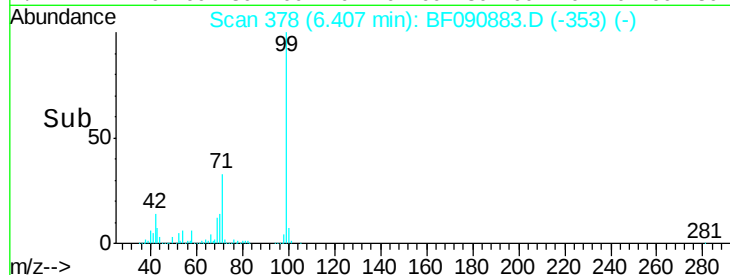
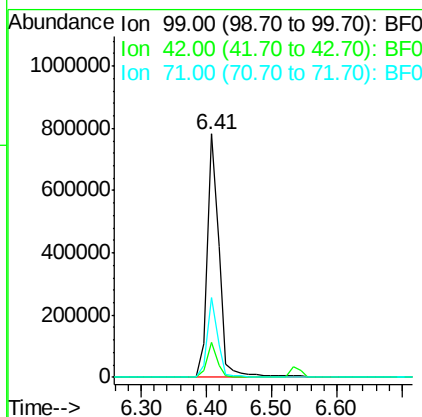
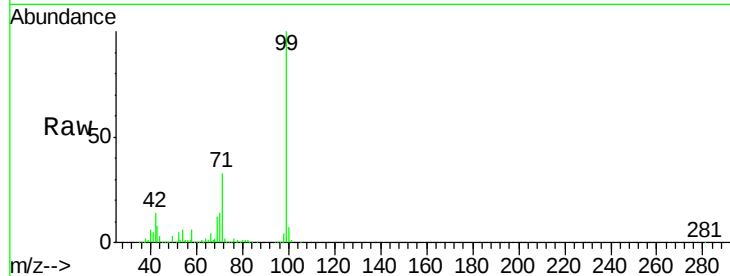
ClientSampleId :

SB-01-5.5-6.0-DUP

Tot Ion:	99	Resp:	992665
Ion Ratio	Lower	Upper	
99	100		
42	14.4	13.7	20.5
71	32.6	14.2	21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

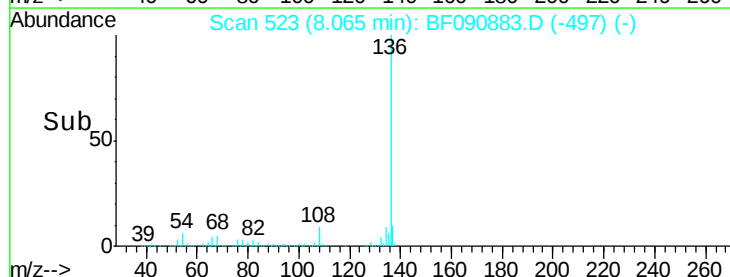
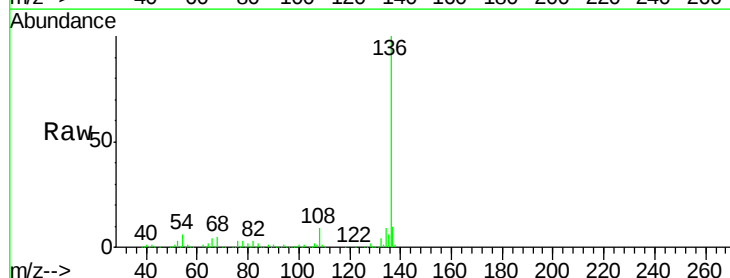
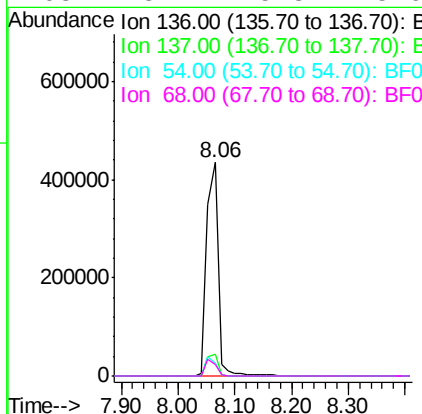
RT: 8.06 min Scan# 523

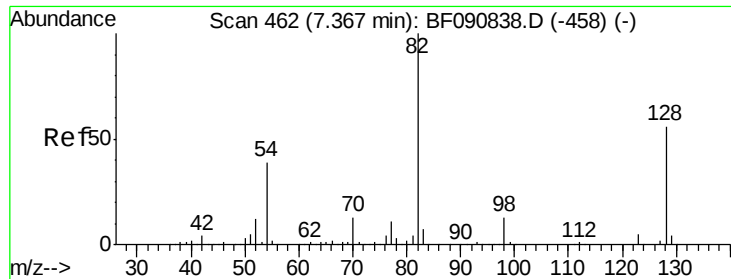
Delta R.T. 0.00 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Tgt Ion:	136	Resp:	587358
Ion Ratio	Lower	Upper	
136	100		
137	10.3	9.0	13.6
54	5.8	8.2	12.2#
68	5.4	5.8	8.6#





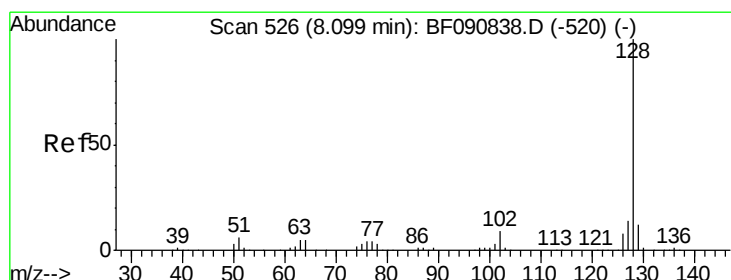
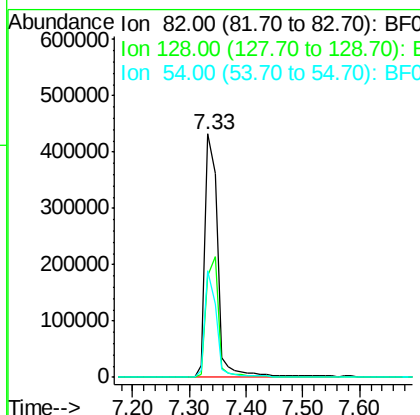
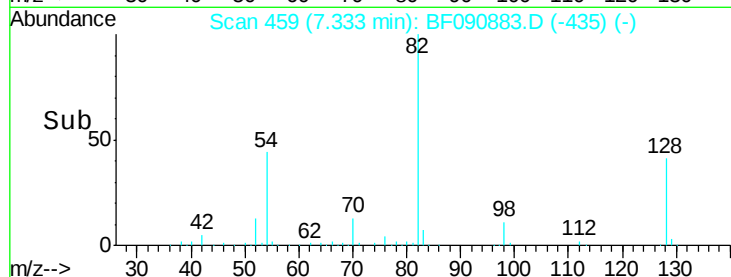
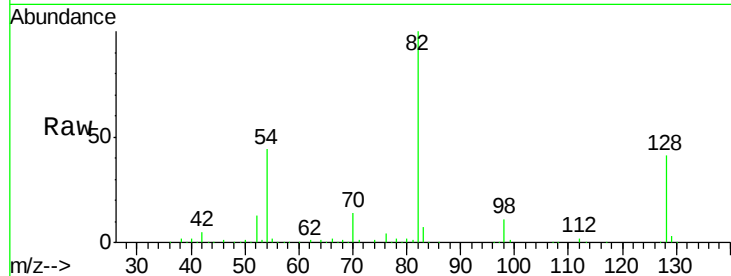
#23
Nitrobenzene-d5
Concen: 72.13 ng
RT: 7.33 min Scan# 459
Delta R.T. -0.02 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Instrument :
BNA_F
ClientSampleId :
SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.5	51.0	76.6#
54	44.1	47.5	71.3#

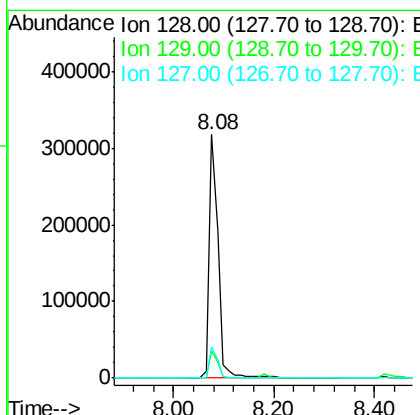
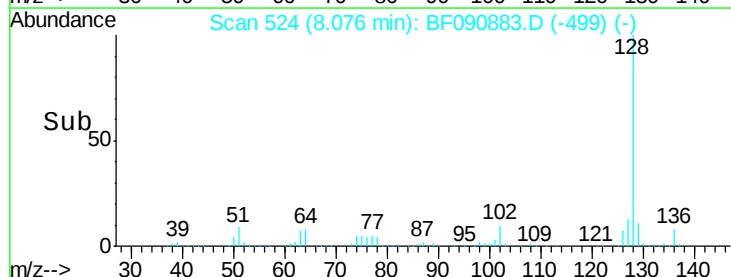
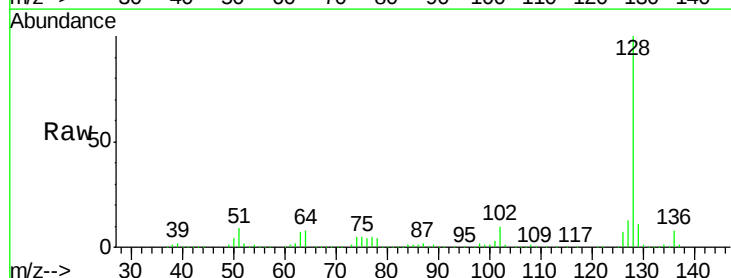
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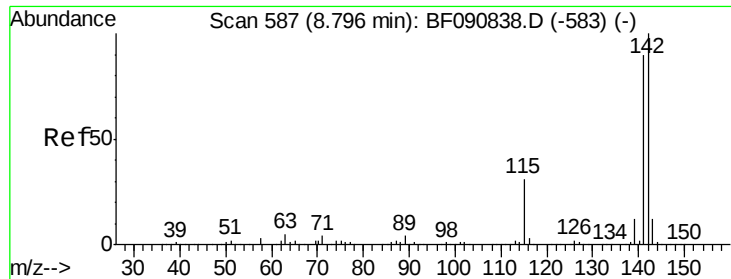
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#31
Naphthalene
Concen: 14.28 ng
RT: 8.08 min Scan# 524
Delta R.T. -0.01 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.4	12.6
127	13.0	9.9	14.9





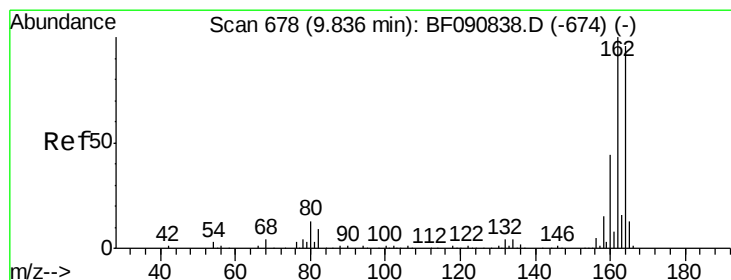
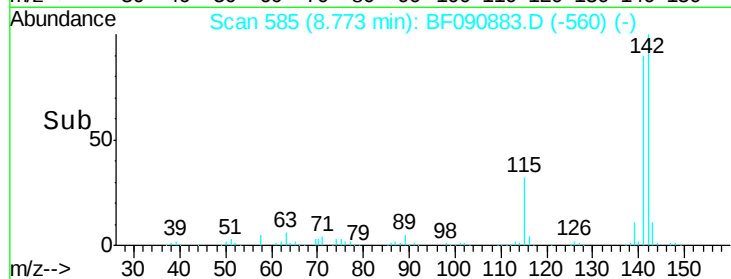
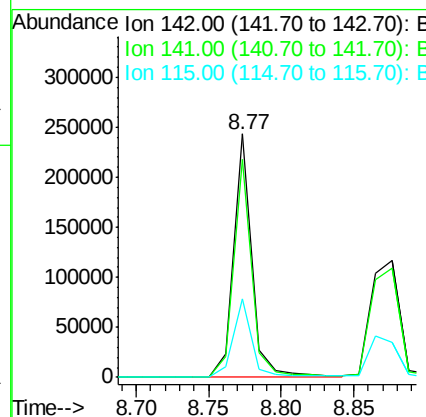
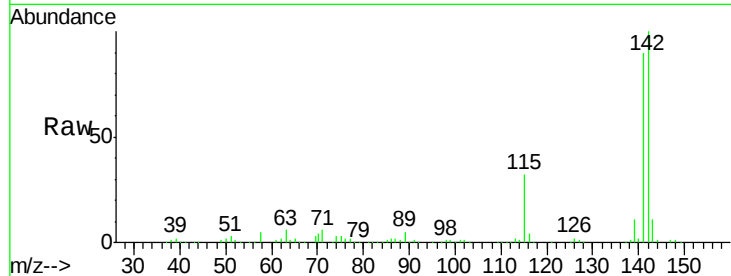
#37
2-Methylnaphthalene
Concen: 12.03 ng
RT: 8.77 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF090838.D
Acq: 27 Oct 2016 22:52

Instrument :
BNA_F
ClientSampleId :
SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.7	67.5	101.3
115	32.5	18.2	27.2

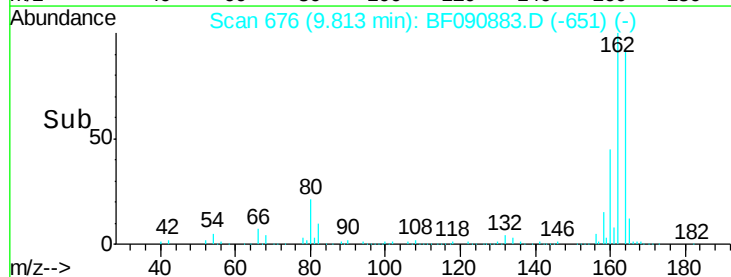
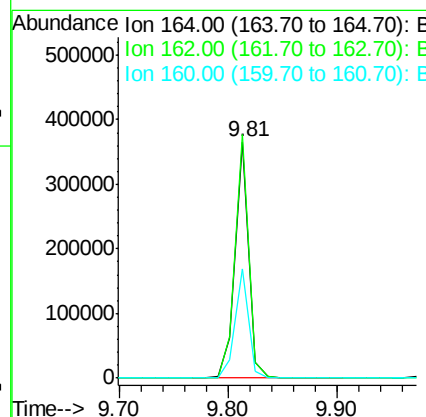
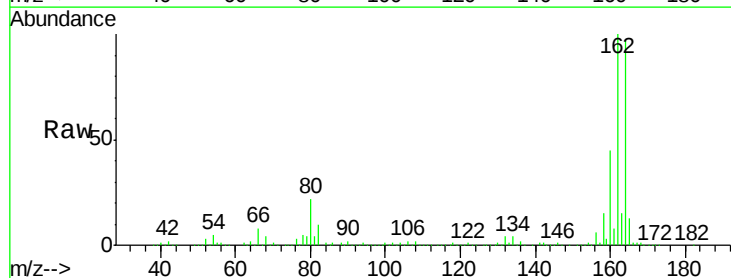
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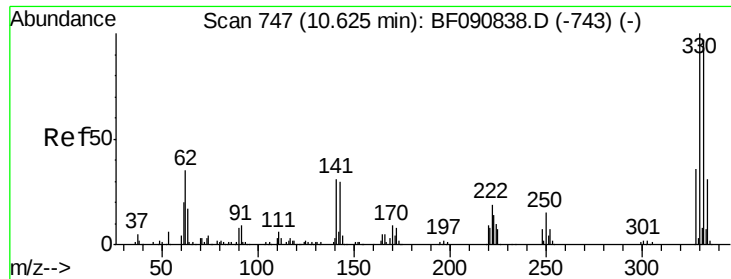
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF090838.D
Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	75.2	112.8
160	46.0	31.5	47.3





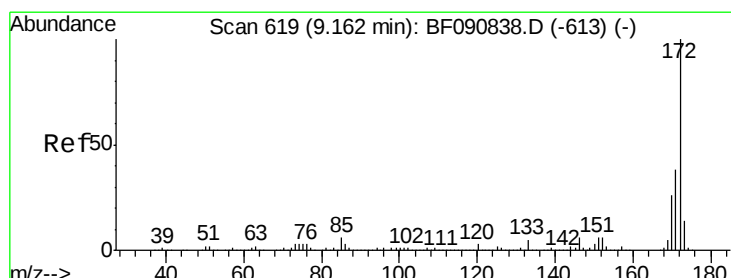
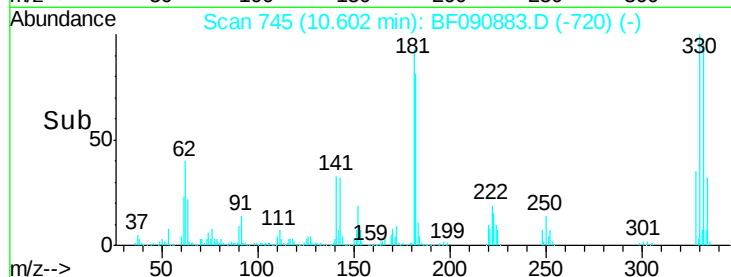
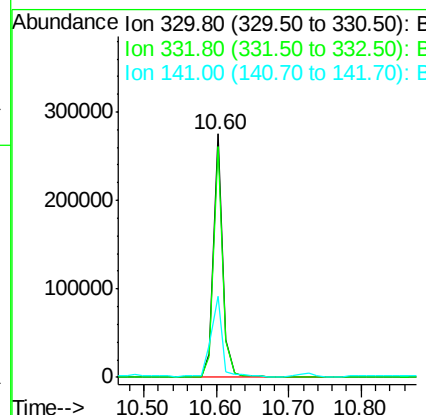
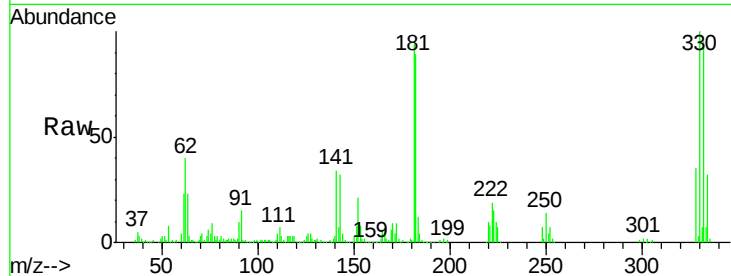
#41
 2,4,6-Tribromophenol
 Concen: 75.32 ng
 RT: 10.60 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: BF090883.D
 Acq: 27 Oct 2016 22:52

Instrument :
 BNA_F
 ClientSampleId :
 SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Resp	Lower	Upper
330	100	244919		
332	95.1	76.6	114.8	
141	39.9	29.7	44.5	

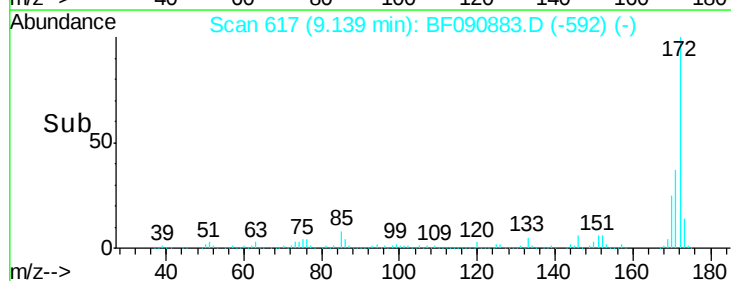
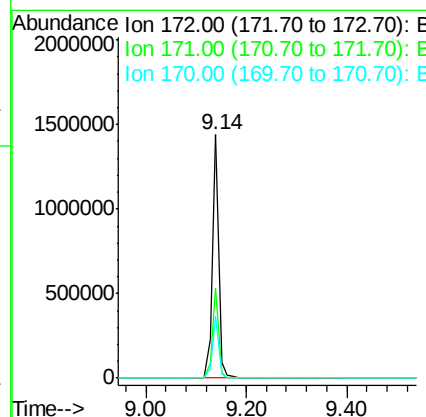
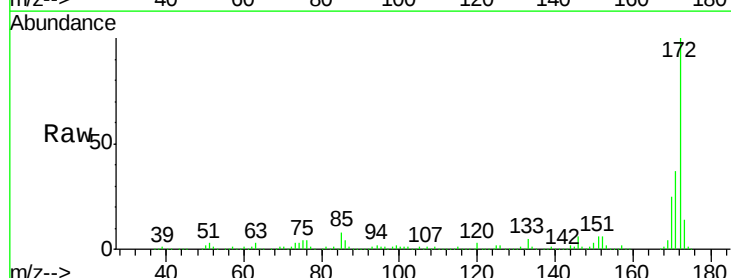
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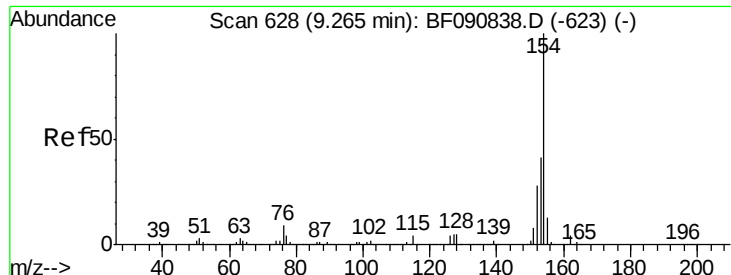
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#44
 2-Fluorobiphenyl
 Concen: 69.68 ng
 RT: 9.14 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: BF090883.D
 Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1255678		
171	37.0	26.1	39.1	
170	25.3	17.4	26.2	





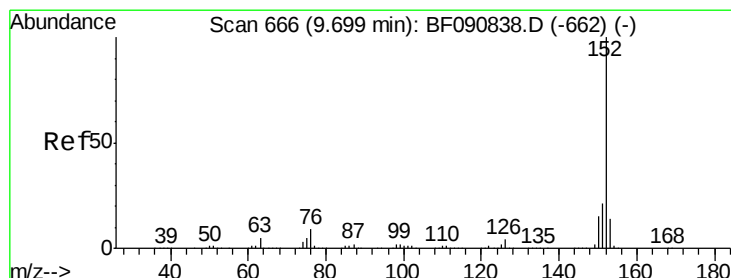
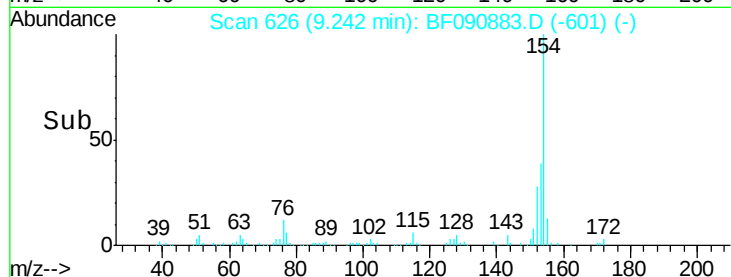
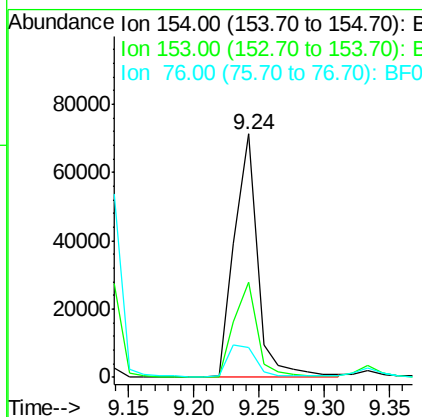
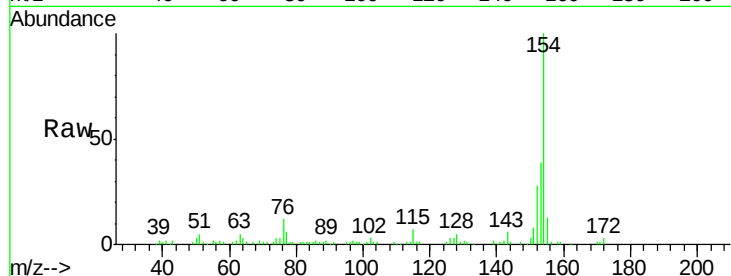
#45
1,1'-Biphenyl
Concen: 3.89 ng
RT: 9.24 min Scan# 626
Delta R.T. -0.01 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Instrument :
BNA_F
ClientSampleId :
SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
154	100		
153	39.3	17.1	57.1
76	12.5	0.0	31.6

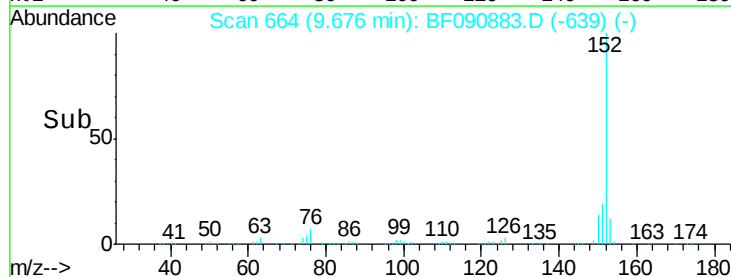
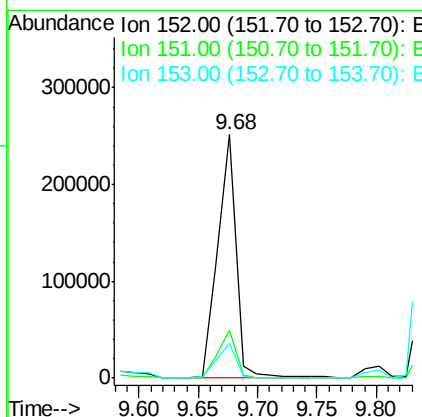
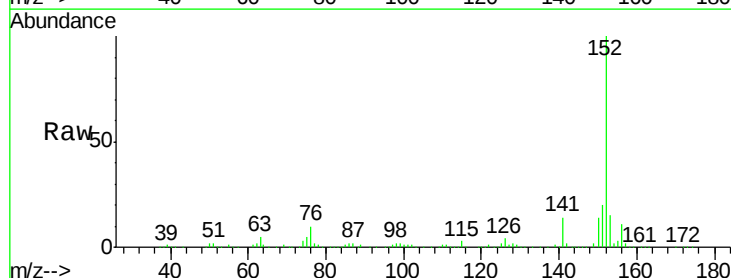
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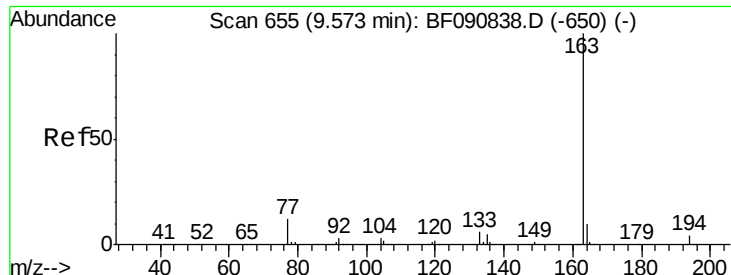
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#48
Acenaphthylene
Concen: 10.21 ng
RT: 9.68 min Scan# 664
Delta R.T. -0.01 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	14.6	22.0
153	14.6	10.3	15.5





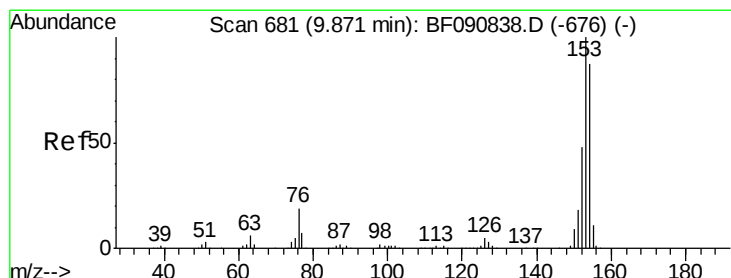
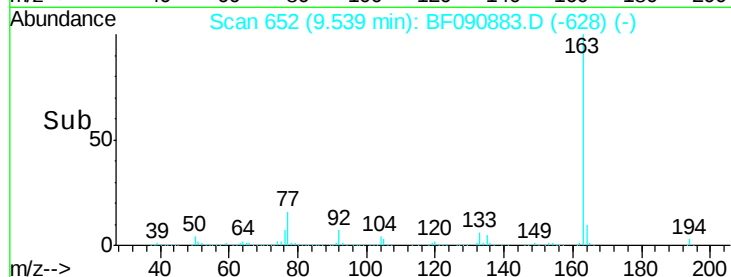
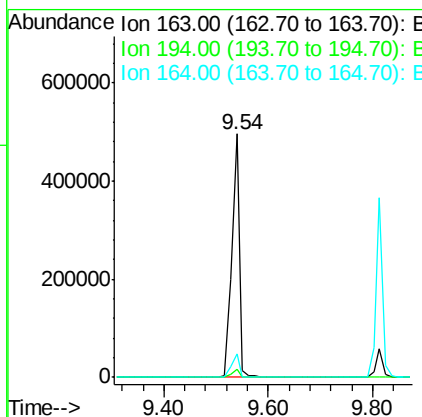
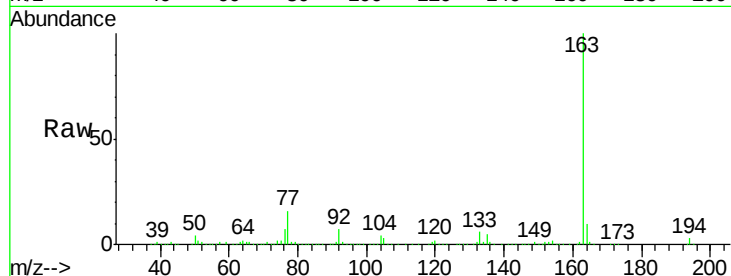
#49
Dimethylphthalate
Concen: 23.81 ng
RT: 9.54 min Scan# 652
Delta R.T. -0.02 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Instrument :
BNA_F
ClientSampleId :
SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Resp	Lower	Upper
163	100	503291		
194	3.5		4.4	6.6#
164	9.8		8.3	12.5

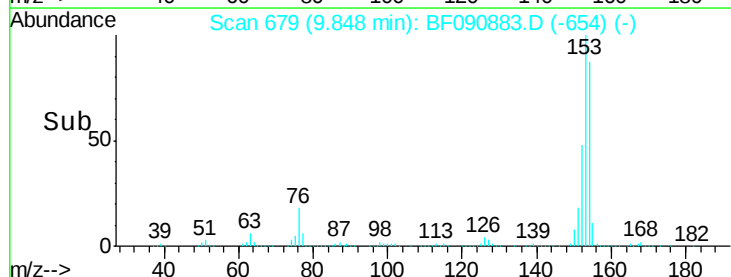
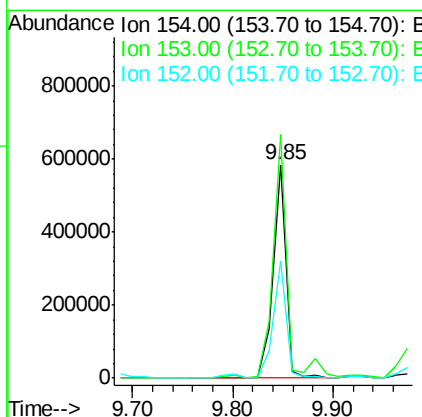
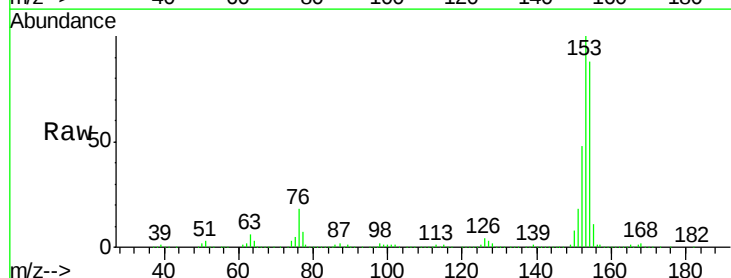
Manual Integrations
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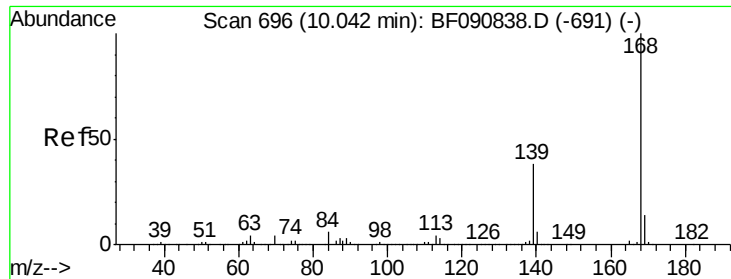
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#51
Acenaphthene
Concen: 28.83 ng
RT: 9.85 min Scan# 679
Delta R.T. -0.01 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	521174		
153	114.2		82.1	123.1
152	54.8		37.9	56.9





#54

Dibenzenofuran

Concen: 29.03 ng

RT: 10.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Instrument :

BNA_F

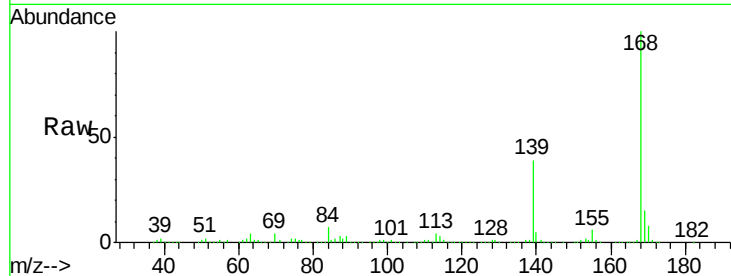
ClientSampleId :

SB-01-5.5-6.0-DUP

Tot Ion:	168	Resp:	677399
Ion Ratio	Lower	Upper	
168	100		
139	39.0	24.2	36.2#
169	14.7	10.6	15.8

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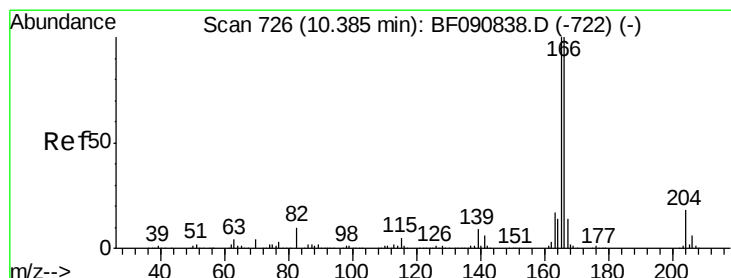
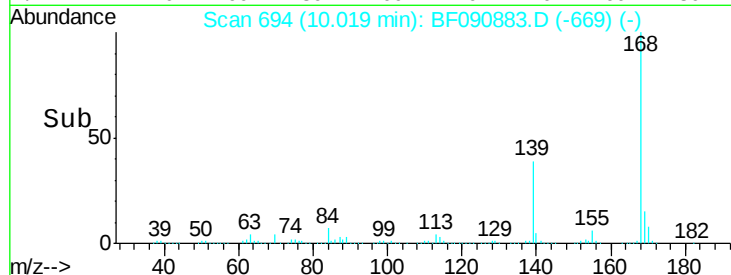
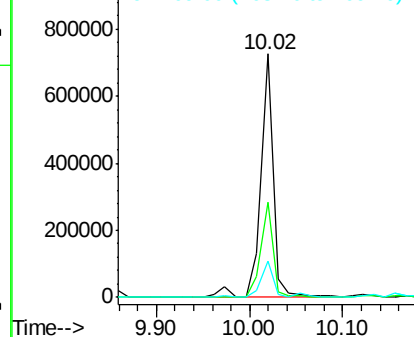
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 37.72 ng

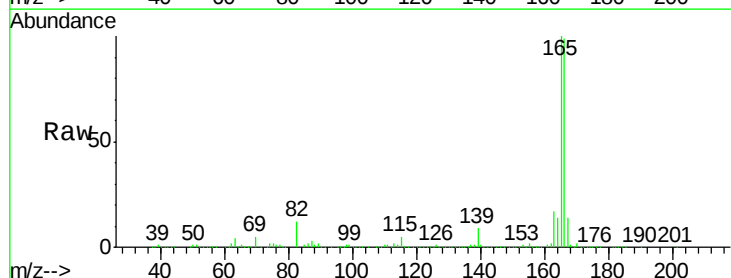
RT: 10.36 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

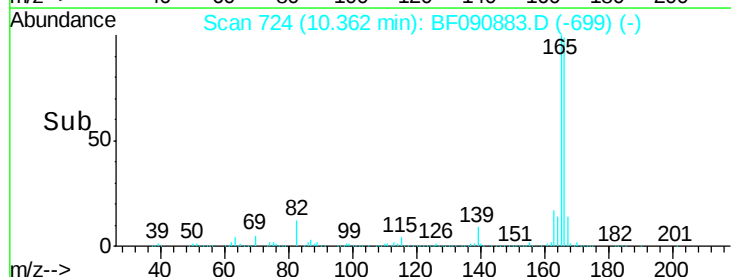
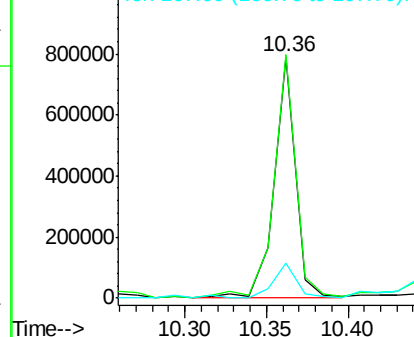
Tgt Ion:	166	Resp:	720778
Ion Ratio	Lower	Upper	
166	100		
165	101.0	72.6	109.0
167	14.4	10.6	16.0

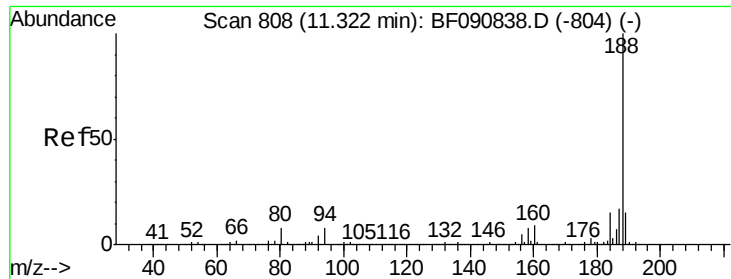


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





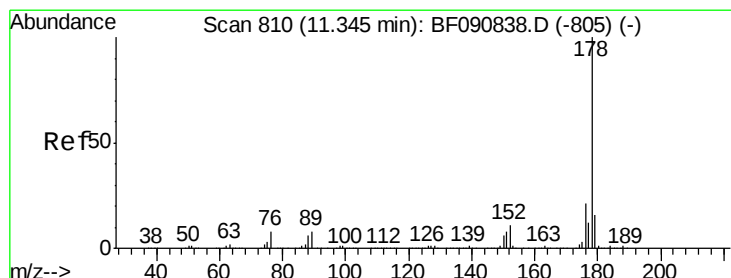
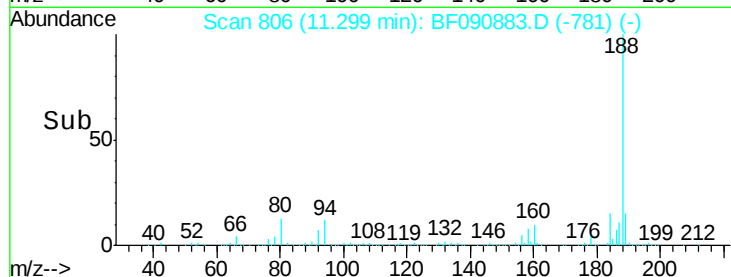
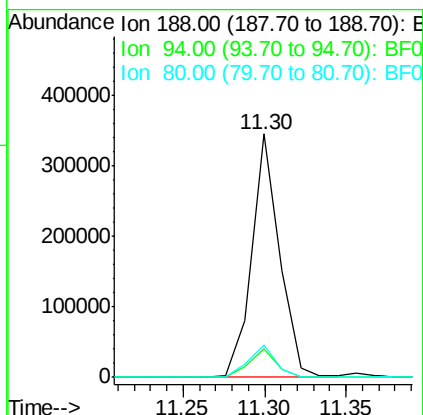
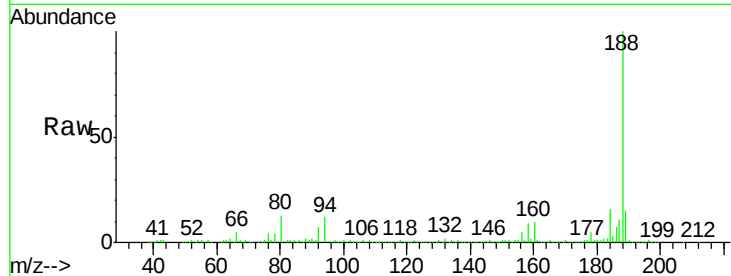
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Instrument :
BNA_F
ClientSampleId :
SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Resp	Lower	Upper
188	100	408512		
94	11.7		11.1	16.7
80	13.4		11.0	16.4

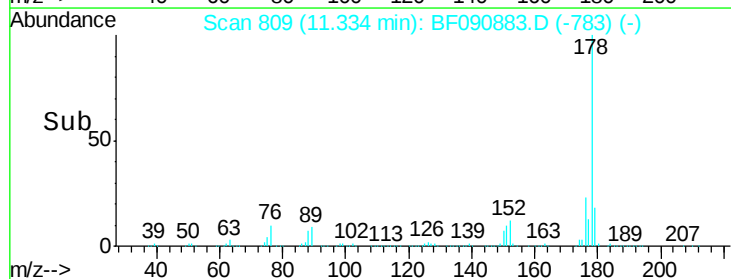
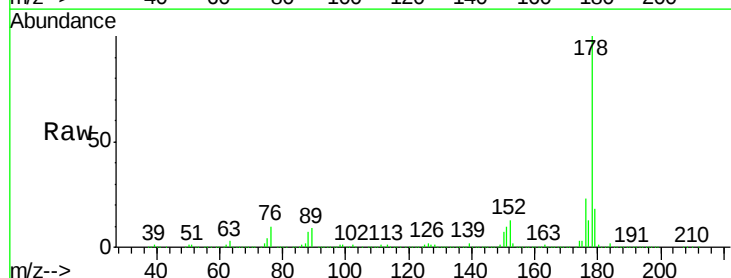
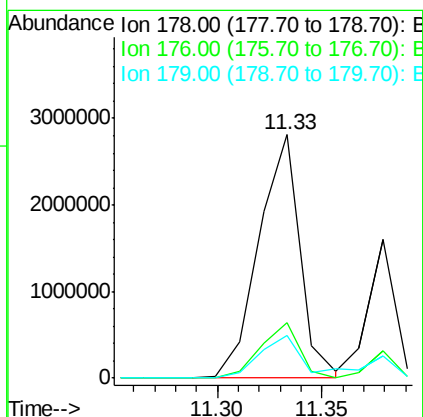
Manual Integrations
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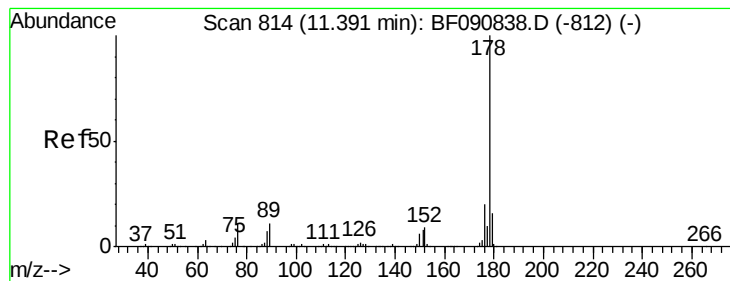
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#70
Phenanthrene
Concen: 185.45 ng m
RT: 11.33 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	3857890		
176	22.7		13.8	20.8#
179	17.6		12.2	18.2





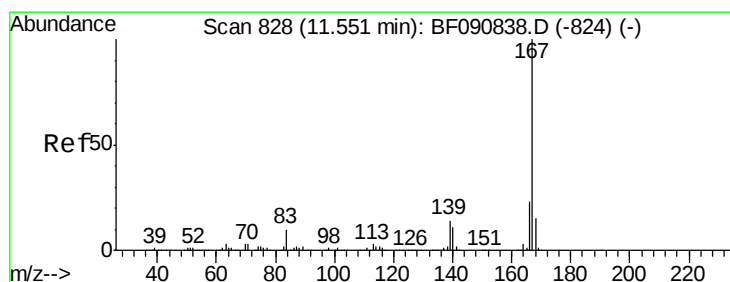
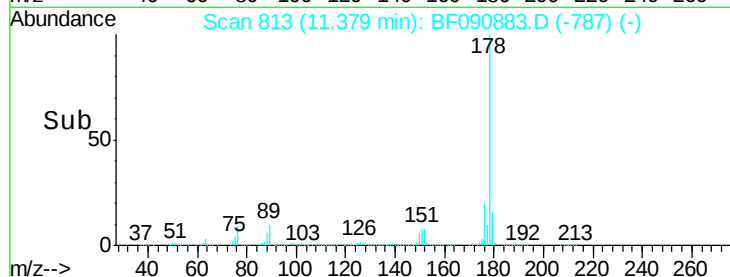
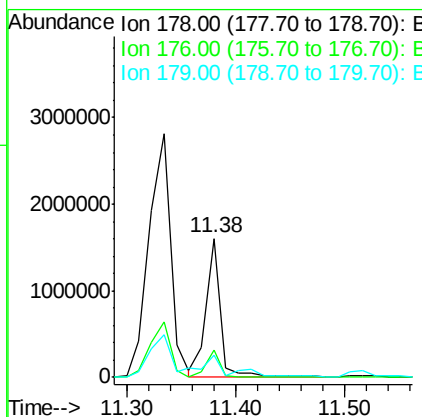
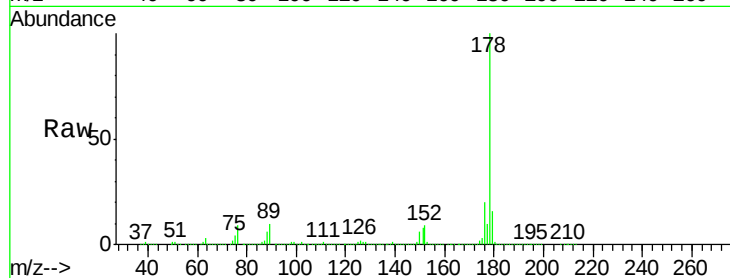
#71
 Anthracene
 Concen: 68.31 ng
 RT: 11.38 min Scan# 813
 Delta R.T. 0.00 min
 Lab File: BF090883.D
 Acq: 27 Oct 2016 22:52

Instrument :
 BNA_F
 ClientSampleId :
 SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	14.1	21.1
179	16.5	12.2	18.2

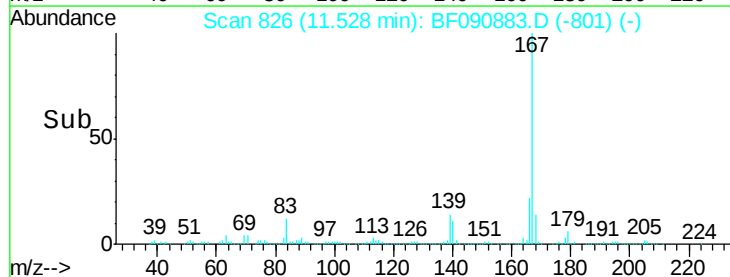
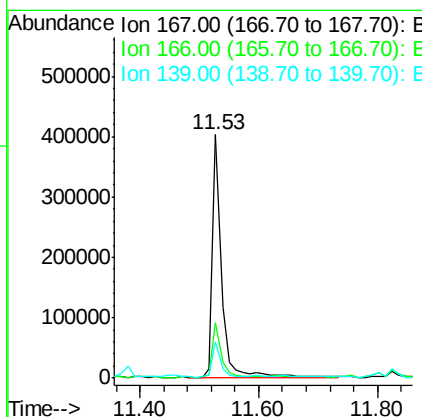
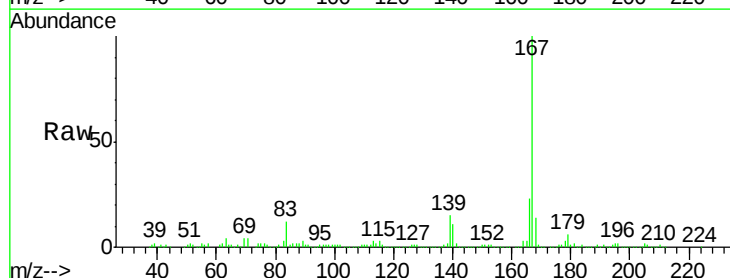
Manual Integrations
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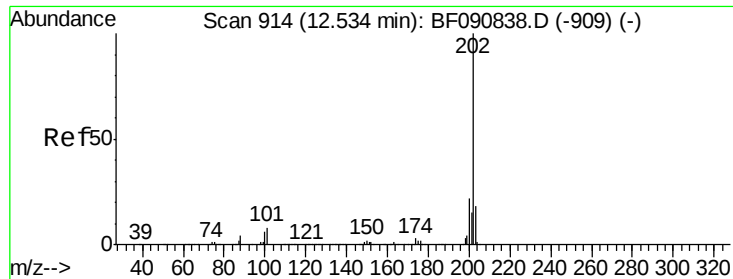
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#72
 Carbazole
 Concen: 22.33 ng
 RT: 11.53 min Scan# 826
 Delta R.T. -0.01 min
 Lab File: BF090883.D
 Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.6	15.7	23.5
139	14.7	9.5	14.3#





#74

Fluoranthene

Concen: 151.27 ng

RT: 12.52 min Scan# 913

Delta R.T. 0.00 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Instrument :

BNA_F

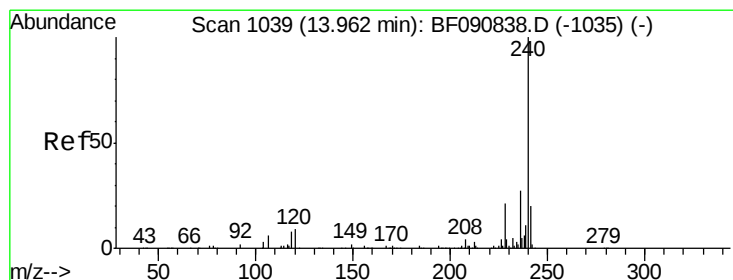
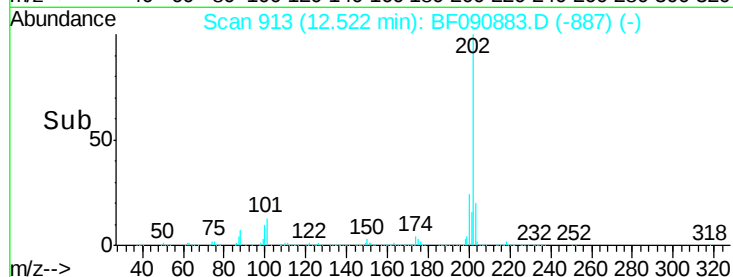
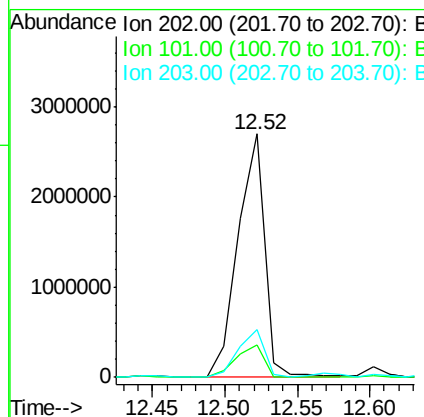
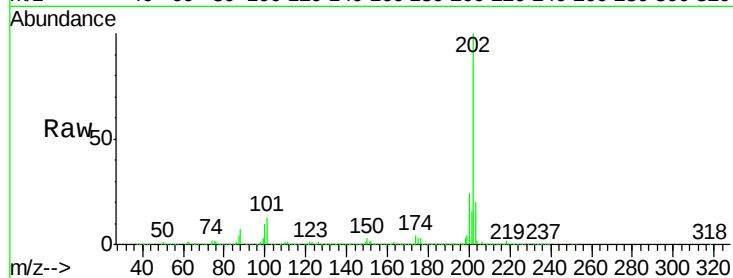
ClientSampleId :

SB-01-5.5-6.0-DUP

Tot Ion:	202	Resp:	3446120
Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	38.3
203	19.9	0.0	37.3

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#75

Chrysene-d12

Concen: 20.00 ng

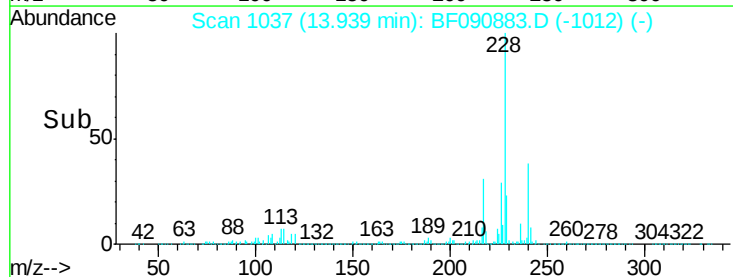
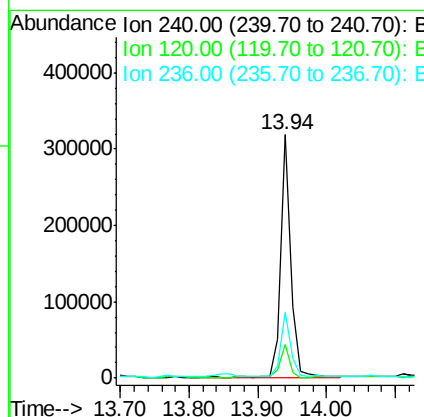
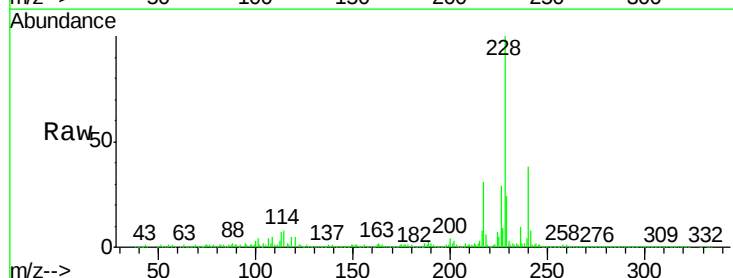
RT: 13.94 min Scan# 1037

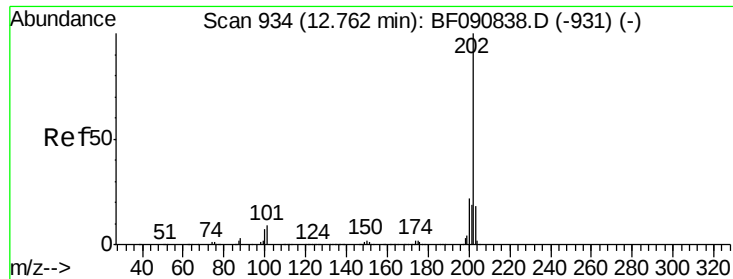
Delta R.T. -0.01 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Tgt Ion:	240	Resp:	334953
Ion	Ratio	Lower	Upper
240	100		
120	14.0	16.2	24.2#
236	27.2	18.4	27.6





#77

Pvrene

Concen: 163.15 ng

RT: 12.75 min Scan# 933

Delta R.T. 0.00 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Instrument :

BNA_F

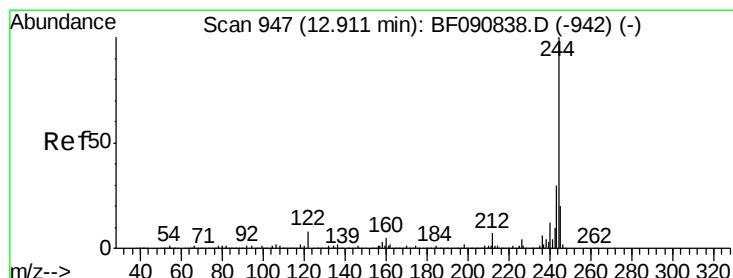
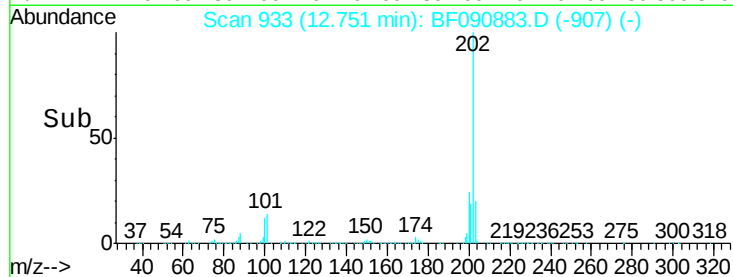
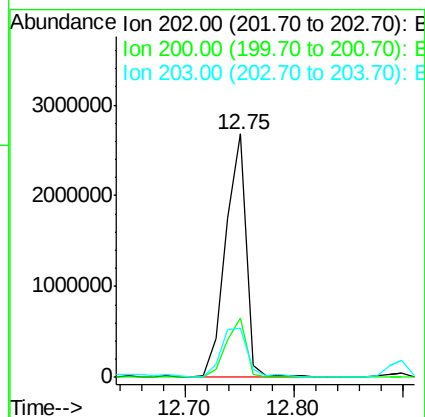
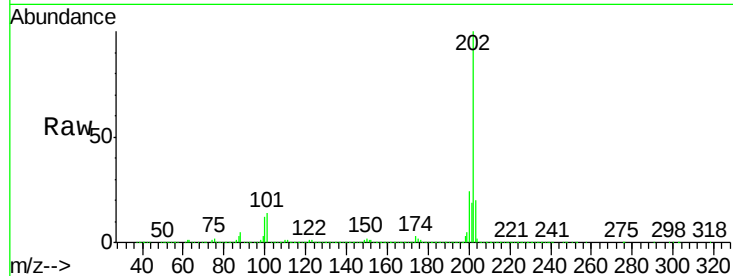
ClientSampleId :

SB-01-5.5-6.0-DUP

Tot Ion:	202	Resp:	3458392
Ion Ratio	Lower	Upper	
202	100		
200	24.1	15.0	22.4#
203	20.1	14.1	21.1

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#78

Terphenyl-d14

Concen: 65.29 ng

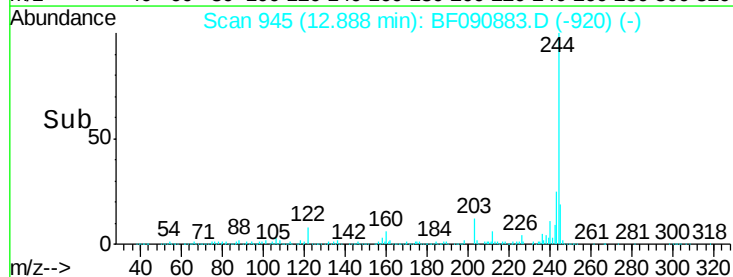
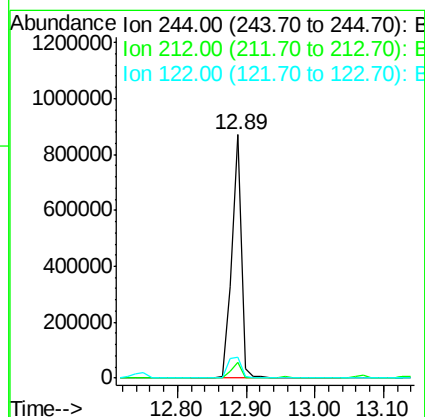
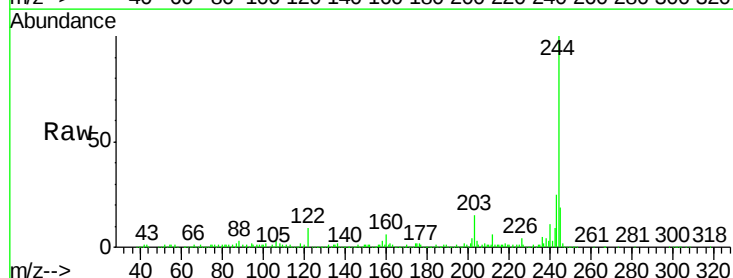
RT: 12.89 min Scan# 945

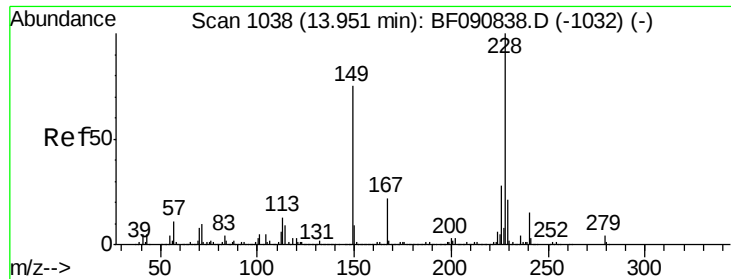
Delta R.T. -0.01 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Tgt Ion:	244	Resp:	868091
Ion Ratio	Lower	Upper	
244	100		
212	6.4	4.3	6.5
122	8.6	17.4	26.2#





#80

Benzo(a)anthracene

Concen: 115.81 ng

RT: 13.93 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Instrument :

BNA_F

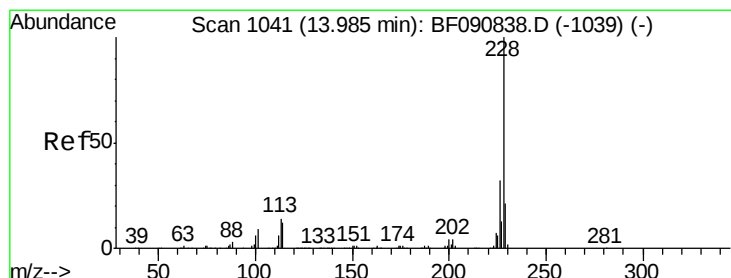
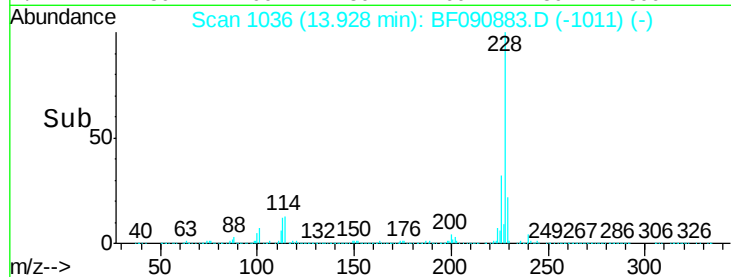
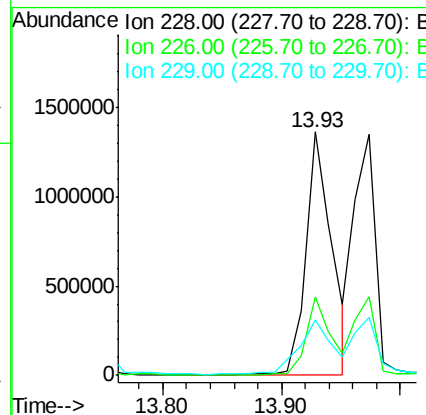
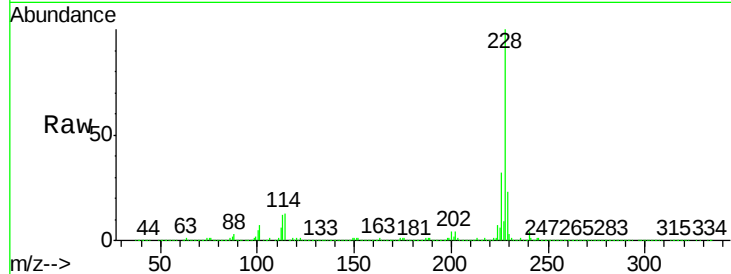
ClientSampleId :

SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.0	20.0	30.0#
229	22.9	15.4	23.2

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#82

Chrysene

Concen: 92.54 ng

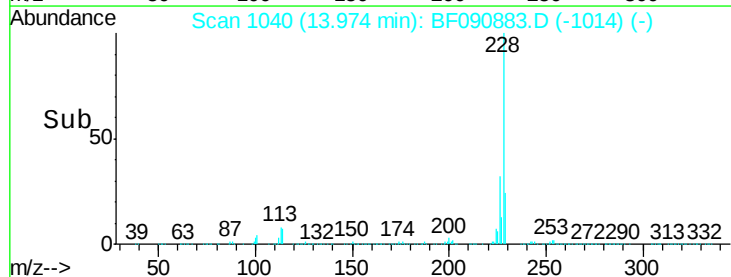
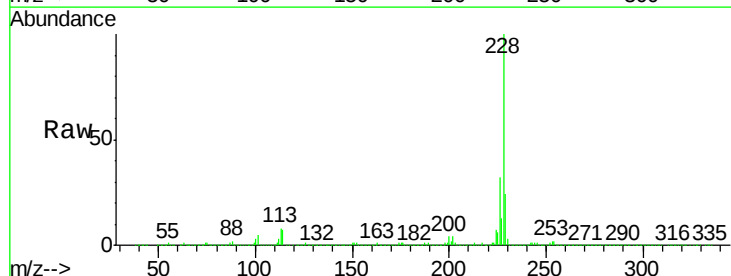
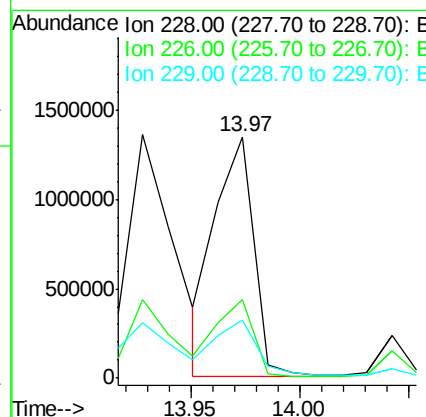
RT: 13.97 min Scan# 1040

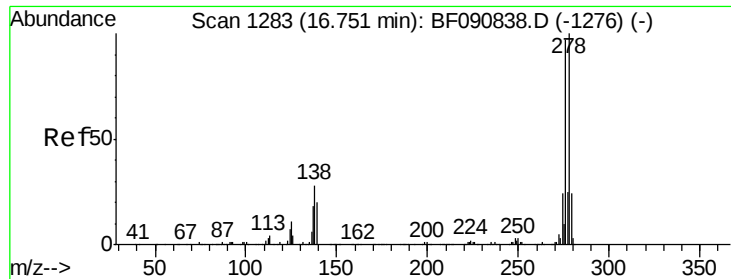
Delta R.T. 0.00 min

Lab File: BF090883.D

Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.5	21.0	31.4#
229	24.2	15.6	23.4#





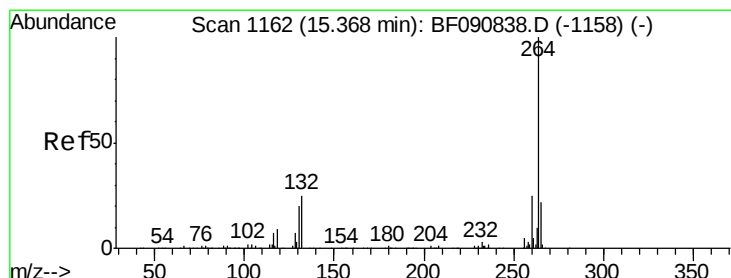
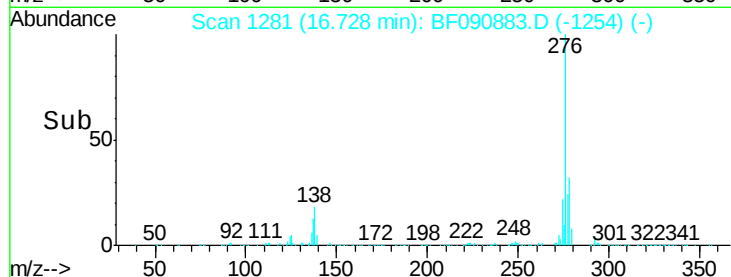
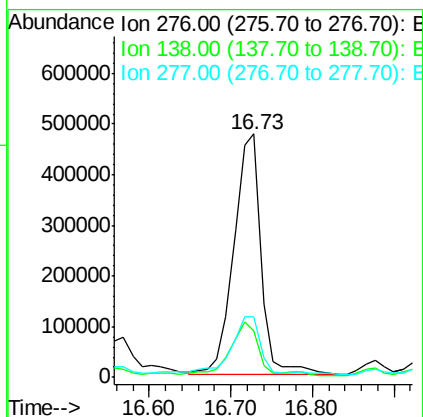
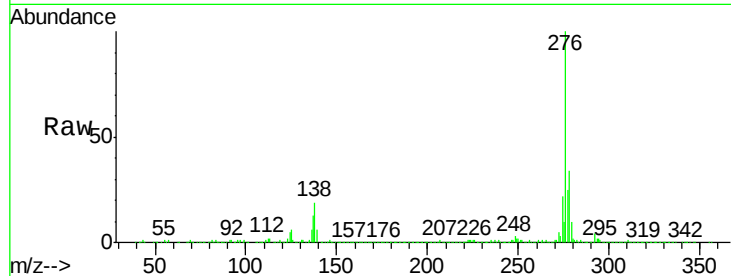
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 68.08 ng
 RT: 16.73 min Scan# 1281
 Delta R.T. 0.01 min
 Lab File: BF090883.D
 Acq: 27 Oct 2016 22:52

Instrument :
 BNA_F
 ClientSampleId :
 SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.0	25.7	38.5#
277	25.7	15.6	23.4#

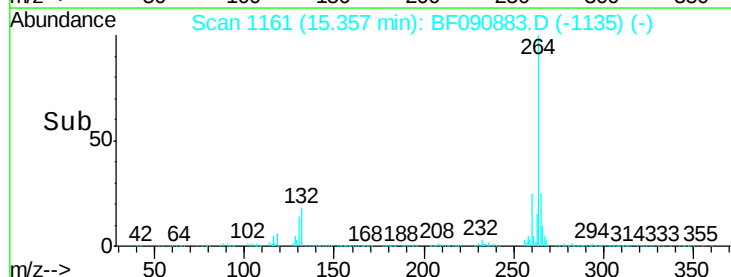
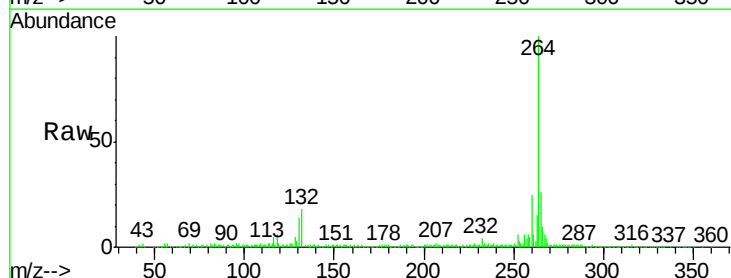
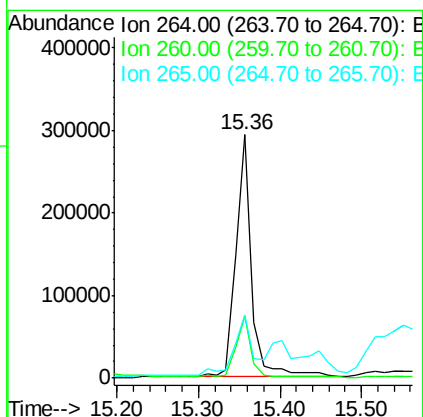
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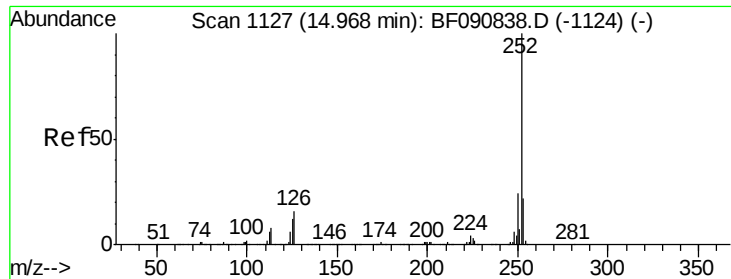
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.36 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: BF090883.D
 Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	16.7	25.1#
265	26.0	17.2	25.8#





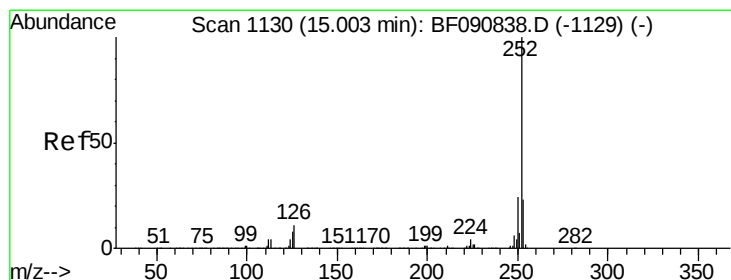
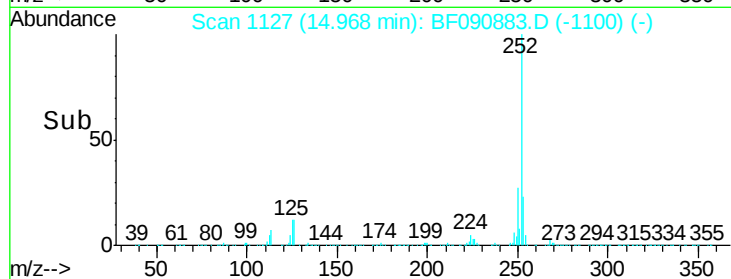
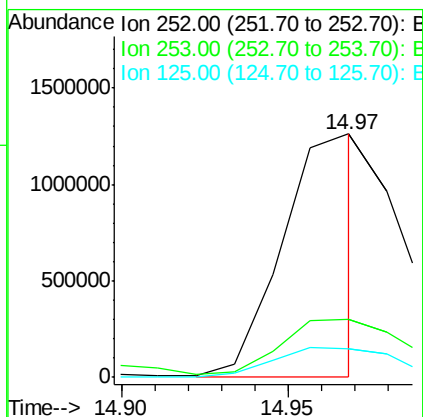
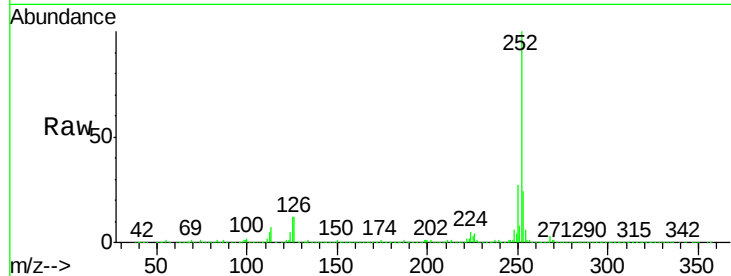
#87
Benzo(b)fluoranthene
Concen: 78.37 ng m
RT: 14.97 min Scan# 1127
Delta R.T. 0.01 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Instrument :
BNA_F
ClientSampleId :
SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.5	26.3
125	12.0	17.1	25.7

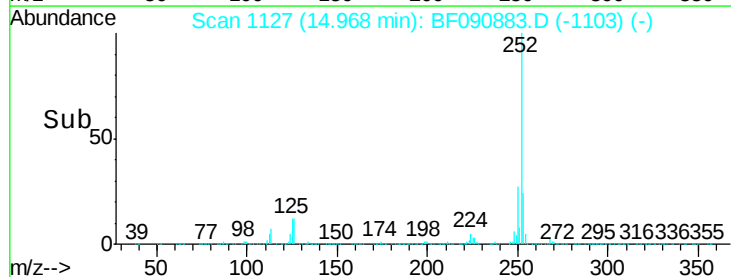
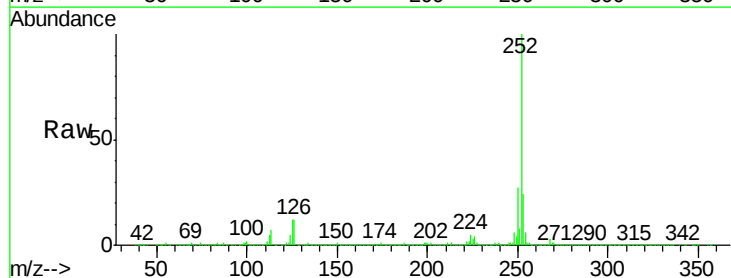
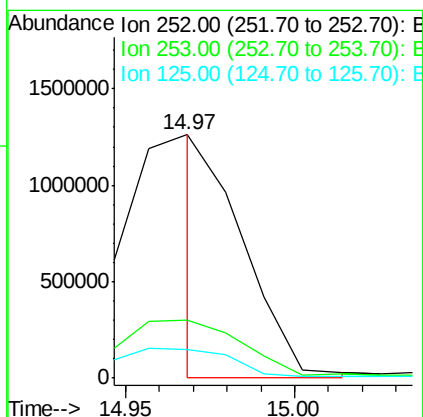
Manual Integrations
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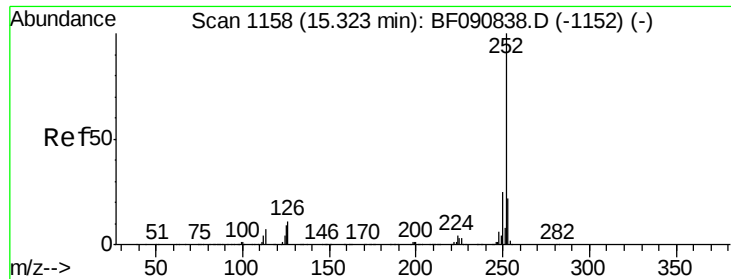
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#88
Benzo(k)fluoranthene
Concen: 46.99 ng m
RT: 14.97 min Scan# 1127
Delta R.T. -0.02 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.0	25.4
125	12.0	16.0	24.0





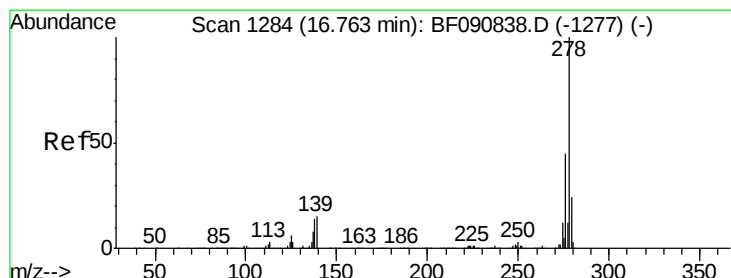
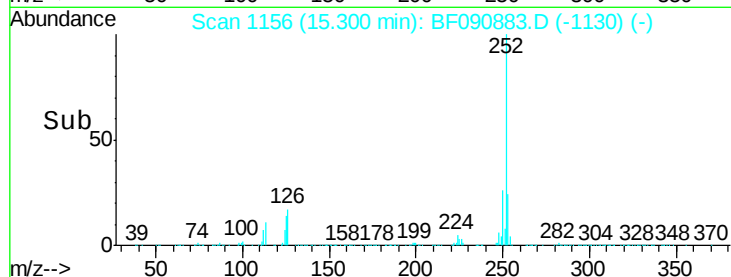
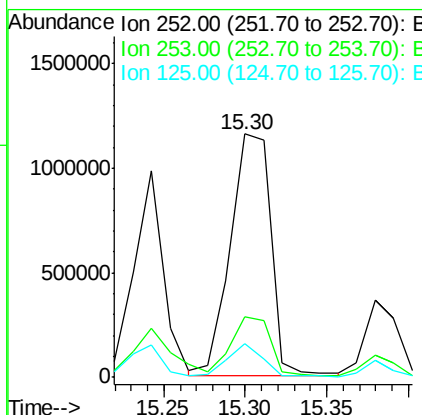
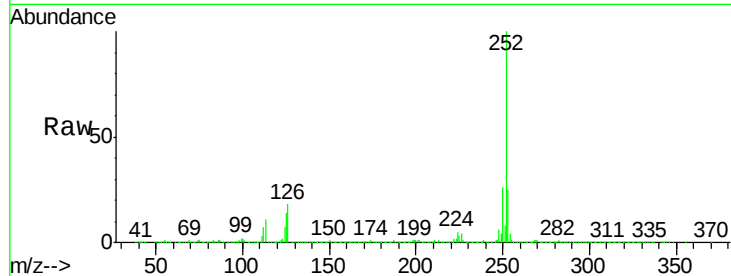
#89
Benzo(a)pyrene
Concen: 86.59 ng
RT: 15.30 min Scan# 1156
Delta R.T. 0.00 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Instrument :
BNA_F
ClientSampleId :
SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.2	25.8
125	13.8	18.0	27.0#

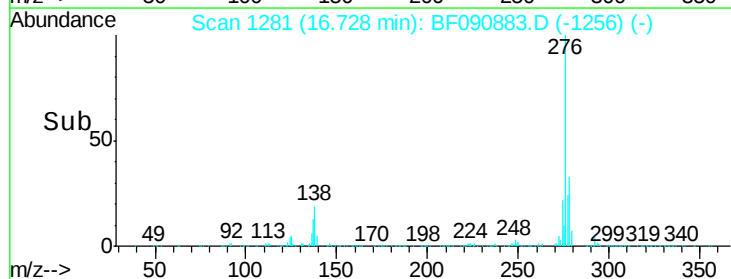
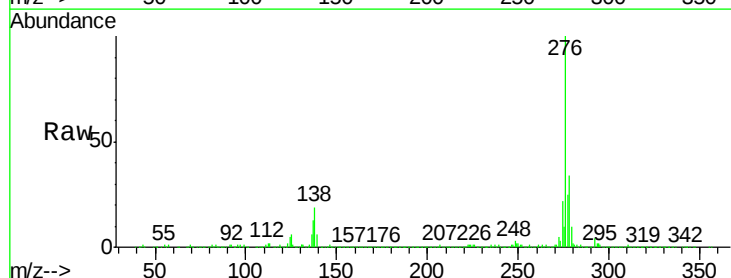
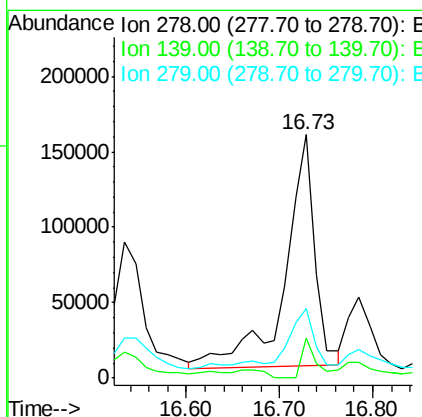
Manual Integrations
APPROVED

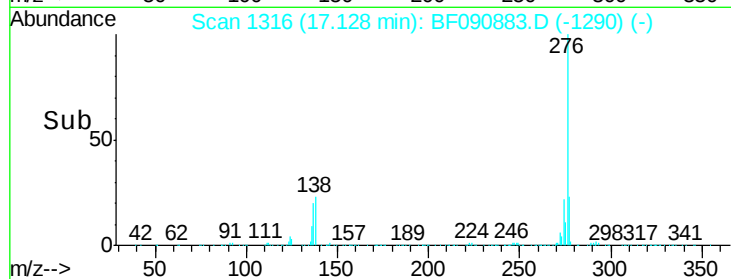
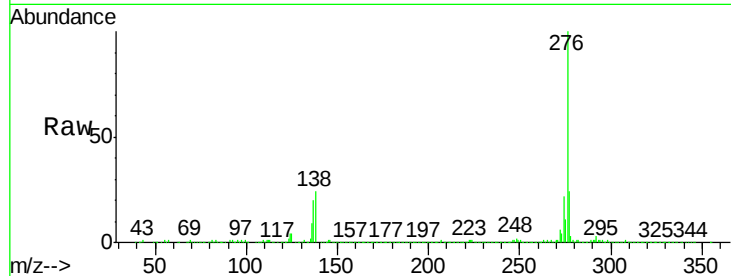
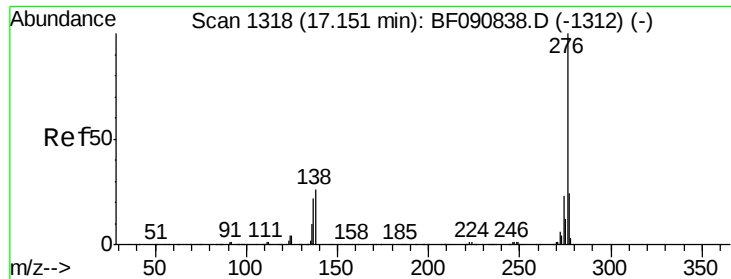
sohil
10/28/2016 5:23:06 PM



#90
Dibenzo(a,h)anthracene
Concen: 18.06 ng
RT: 16.73 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF090883.D
Acq: 27 Oct 2016 22:52

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.6	26.3	39.5#
279	28.5	18.2	27.4#





#91
 Benzo(a,h,i)perylene
 Concen: 53.66 ng
 RT: 17.13 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: BF090883.D
 Acq: 27 Oct 2016 22:52

Instrument :
 BNA_F
 ClientSampleId :
 SB-01-5.5-6.0-DUP

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.8	26.6
138	23.6	34.6	51.8#

Manual Integrations
 APPROVED

sohil
 10/28/2016 5:23:06 PM

