

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020416\
 Data File : BF084841.D
 Acq On : 4 Feb 2016 21:08
 Operator : SJ/IZ
 Sample : H1320-11 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B013(6-8)

Manual Integrations
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 2/5/2016 1:48:58 PM

Quant Time: Feb 05 06:14:46 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	159851	20.00	ng	-0.01
21) Naphthalene-d8	7.96	136	649554	20.00	ng	-0.01
38) Acenaphthene-d10	9.71	164	283770	20.00	ng	-0.02
63) Phenanthrene-d10	11.18	188	465797	20.00	ng	-0.02
75) Chrysene-d12	13.82	240	322036	20.00	ng	-0.01
86) Perylene-d12	15.20	264	321425	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	192753	18.78	ng	-0.02
7) Phenol-d6	6.32	99	405268	31.85	ng	-0.02
23) Nitrobenzene-d5	7.24	82	239412	20.76	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	29084	9.83	ng	-0.02
44) 2-Fluorobiphenyl	9.04	172	378633	16.98	ng	-0.02
78) Terphenyl-d14	12.77	244	274863	19.34	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.98	128	68076	2.09	ng	96
48) Acenaphthylene	9.57	152	82489	2.91	ng	95
49) Dimethylphthalate	9.44	163	64690	2.99	ng	# 91
51) Acenaphthene	9.74	154	125781	6.83	ng	97
54) Dibenzofuran	9.92	168	125569	5.58	ng	# 96
57) Fluorene	10.26	166	145853	7.75	ng	99
70) Phenanthrene	11.22	178	1894271	73.32	ng	96
71) Anthracene	11.26	178	531052	20.40	ng	99
72) Carbazole	11.42	167	116045	5.11	ng	98
74) Fluoranthene	12.41	202	2234831	85.47	ng	96
77) Pyrene	12.64	202	2198139	89.15	ng	98
80) Benzo(a)anthracene	13.81	228	991589	49.61	ng	96
82) Chrysene	13.85	228	606728	31.30	ng	97
85) Indeno(1,2,3-cd)pyrene	16.49	276	452486	29.66	ng	95
87) Benzo(b)fluoranthene	14.83	252	1122485m	51.98	ng	
88) Benzo(k)fluoranthene	14.84	252	125826m	7.05	ng	
89) Benzo(a)pyrene	15.15	252	774294	42.08	ng	96
90) Dibenzo(a,h)anthracene	16.49	278	104734m	6.76	ng	
91) Benzo(a,h,i)perylene	16.87	276	454025	29.10	ng	98

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

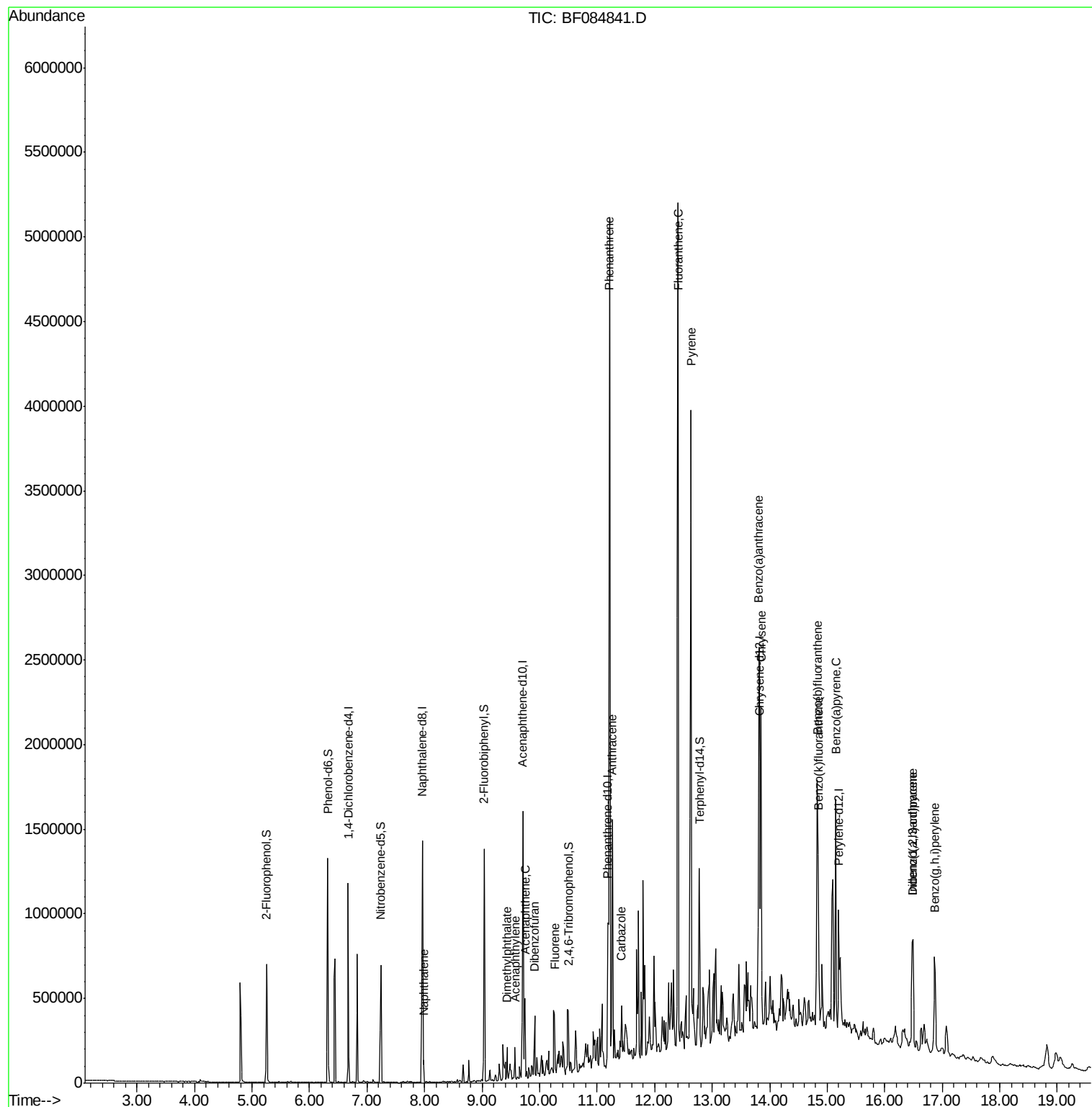
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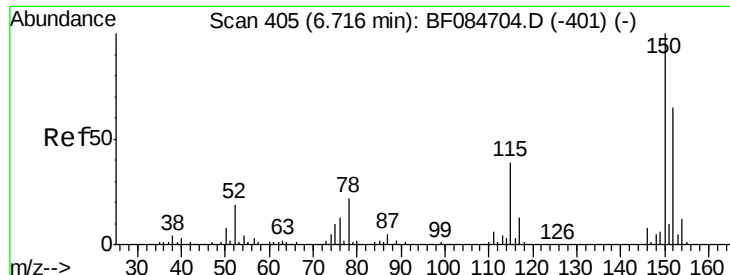
Instrument :
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S4-B013(6-8)

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 401

Delta R.T. -0.01 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Instrument :

BNA_F

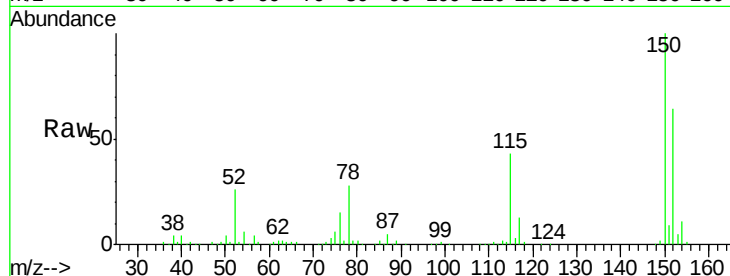
ClientSampleId :

S4-B013(6-8)

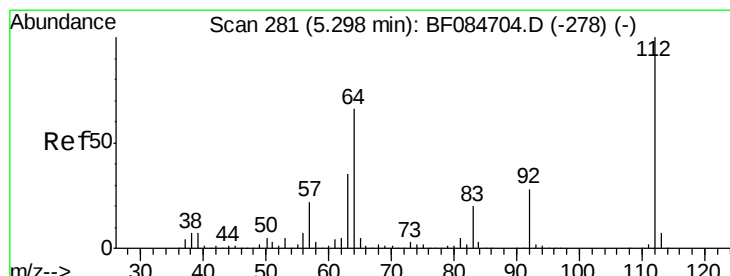
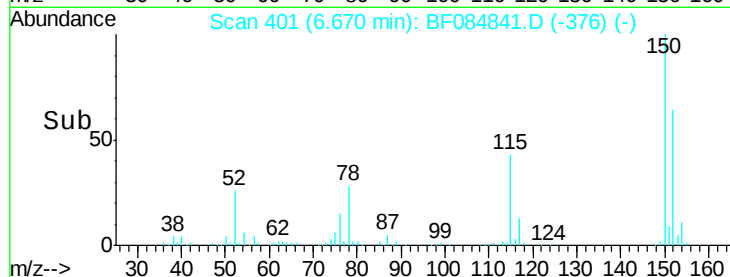
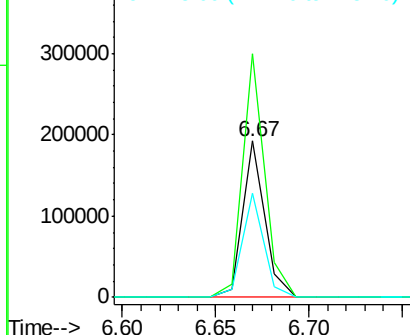
Tot Ion:	152	Resp:	159851
Ion Ratio	Lower	Upper	
152	100		
150	155.7	123.0	184.4
115	66.2	51.4	77.2

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 18.78 ng

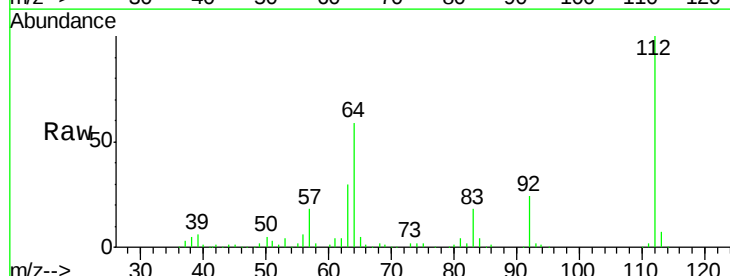
RT: 5.25 min Scan# 277

Delta R.T. -0.02 min

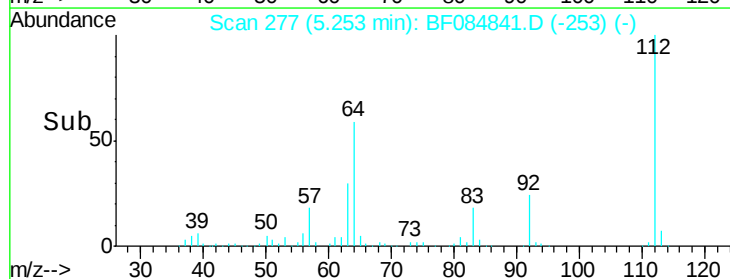
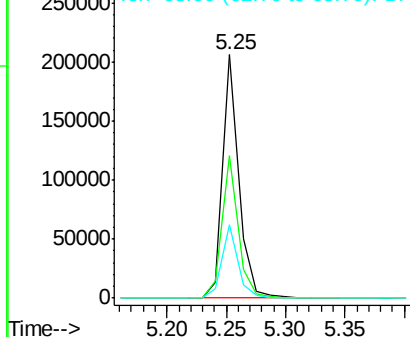
Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Tgt Ion:	112	Resp:	192753
Ion Ratio	Lower	Upper	
112	100		
64	58.6	36.6	55.0#
63	30.2	19.4	29.0#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 31.85 ng

RT: 6.32 min Scan# 370

Delta R.T. -0.02 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Instrument :

BNA_F

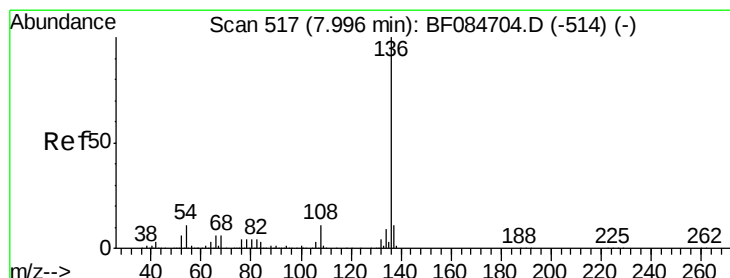
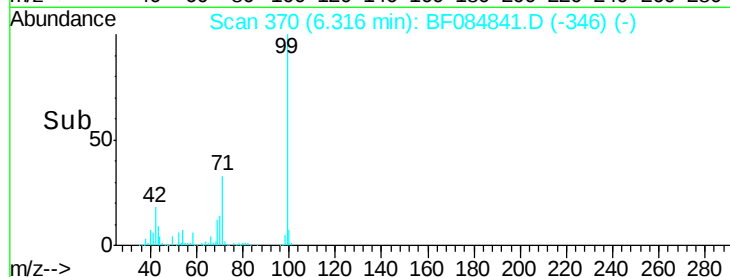
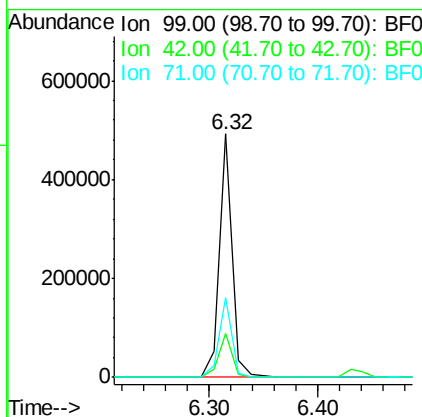
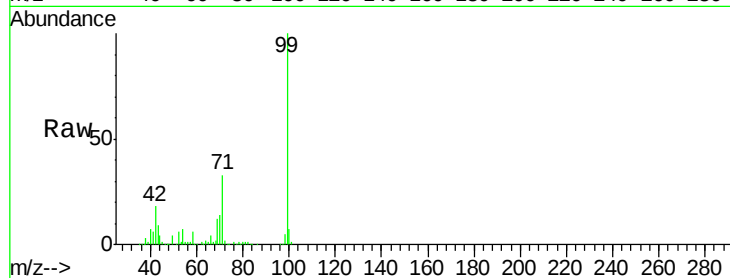
ClientSampleId :

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Tot Ion:	99	Resp:	405268
Ion Ratio	Lower	Upper	
99	100		
42	17.9	12.8	19.2
71	33.0	30.9	46.3

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#21

Naphthalene-d8

Concen: 20.00 ng

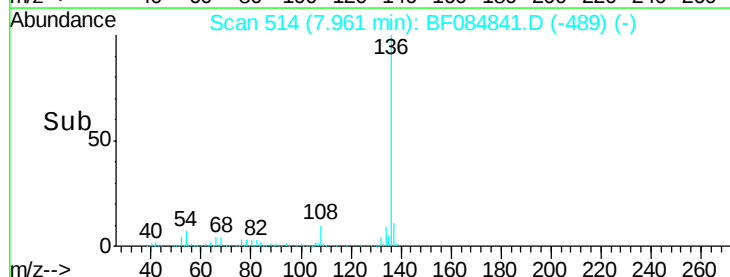
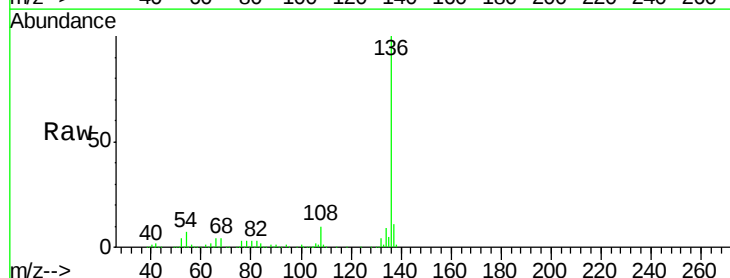
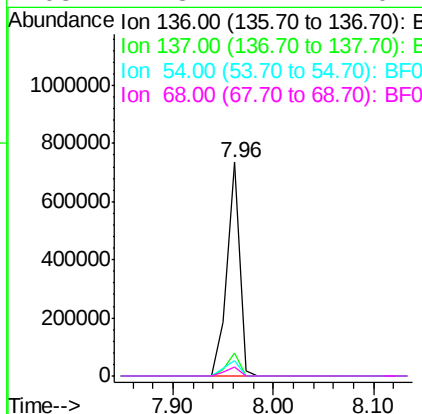
RT: 7.96 min Scan# 514

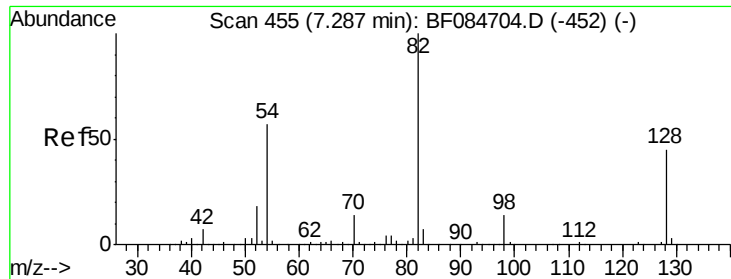
Delta R.T. -0.01 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Tgt Ion:	136	Resp:	649554
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.7	13.1
54	7.0	5.8	8.8
68	4.3	4.2	6.2





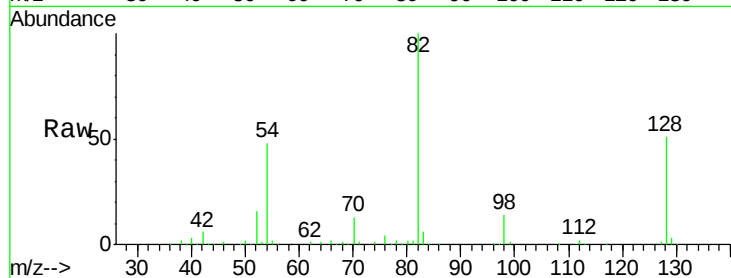
#23
Nitrobenzene-d5
Concen: 20.76 ng
RT: 7.24 min Scan# 451
Delta R.T. -0.02 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)

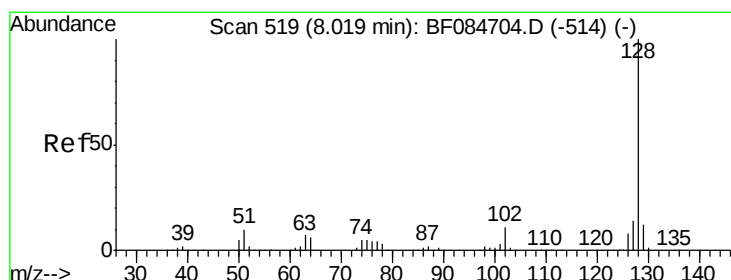
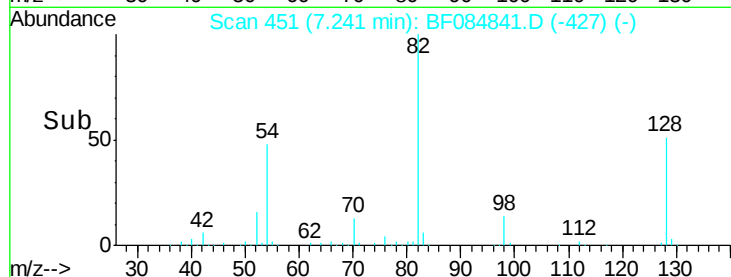
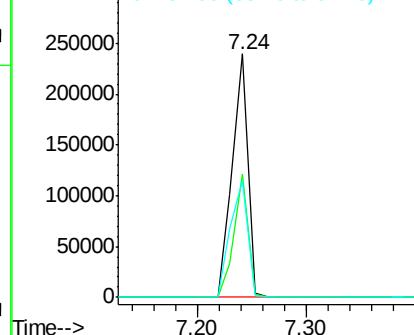
Tot Ion	Ratio	Lower	Upper
82	100		
128	50.8	34.6	51.8
54	48.2	38.4	57.6

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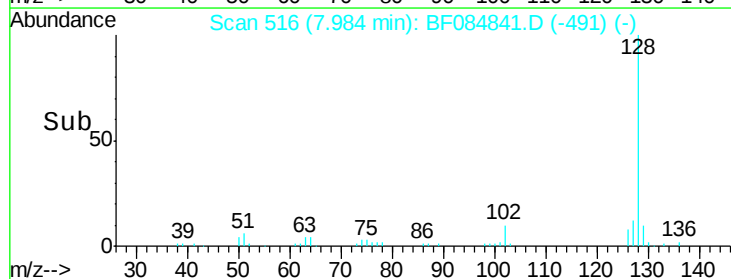
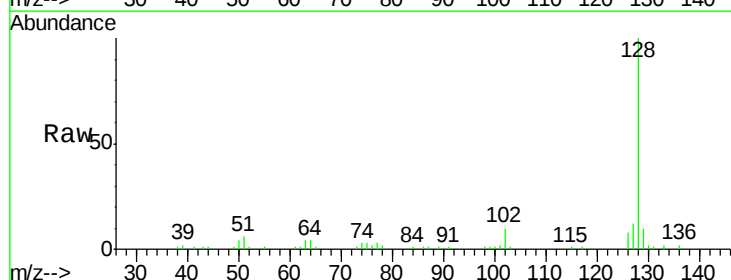
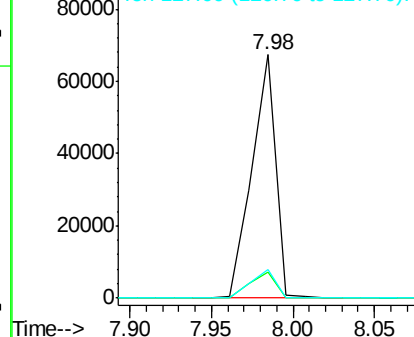
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

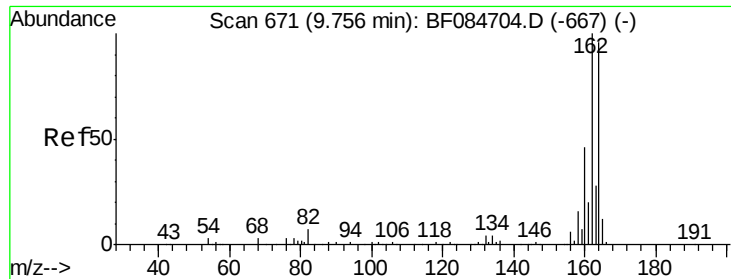


#31
Naphthalene
Concen: 2.09 ng
RT: 7.98 min Scan# 516
Delta R.T. -0.01 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.1	13.7
127	11.7	11.1	16.7

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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 667

Delta R.T. -0.02 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Instrument :

BNA_F

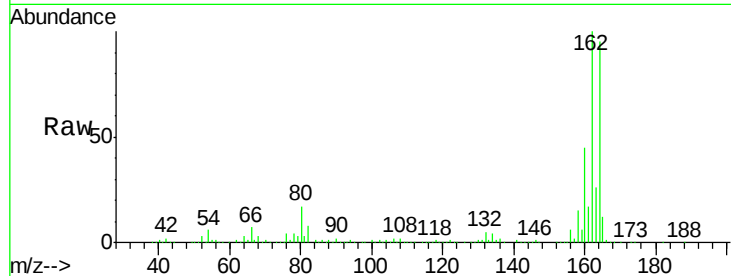
ClientSampleId :

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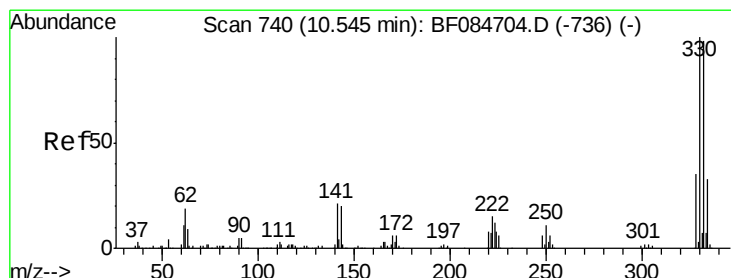
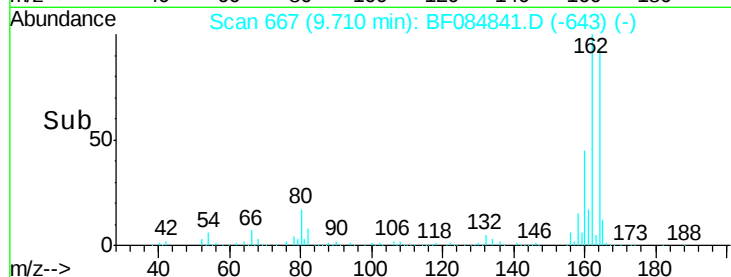
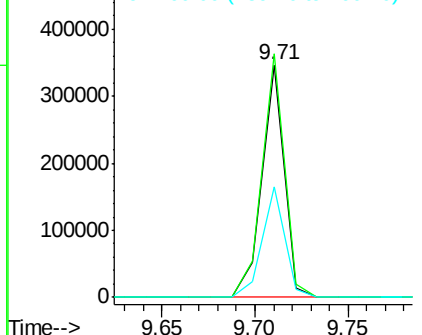
Tot Ion:	164	Resp:	283770
Ion Ratio	Lower	Upper	
164	100		
162	104.9	85.1	127.7
160	47.5	37.5	56.3

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 9.83 ng

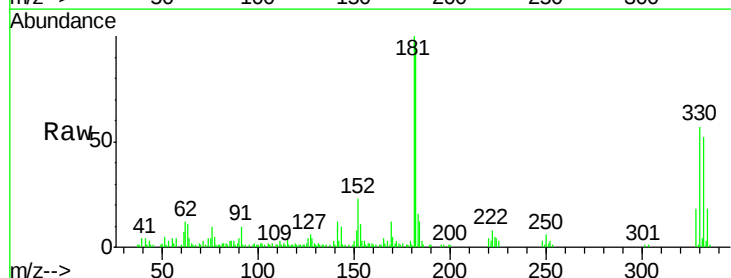
RT: 10.50 min Scan# 736

Delta R.T. -0.02 min

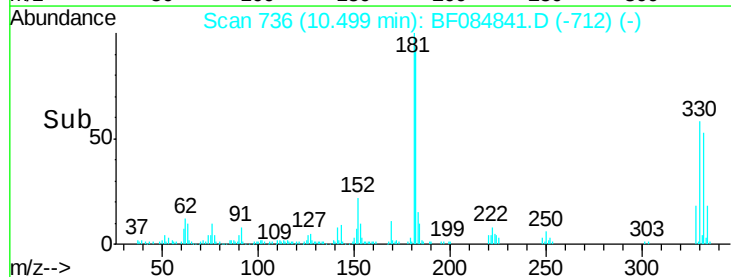
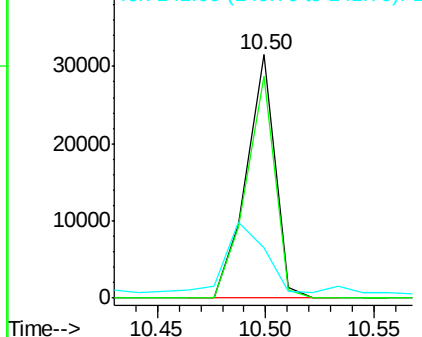
Lab File: BF084841.D

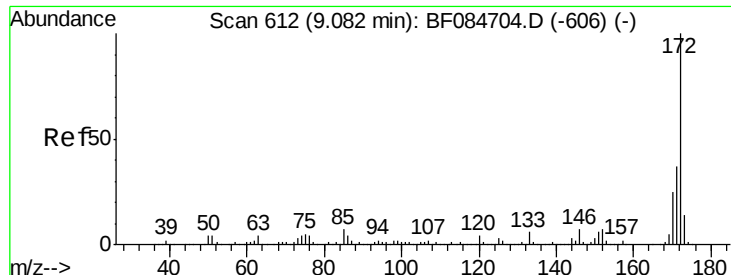
Acq: 4 Feb 2016 21:08

Tgt Ion:	330	Resp:	29084
Ion Ratio	Lower	Upper	
330	100		
332	92.1	76.6	114.8
141	38.0	27.8	41.6



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





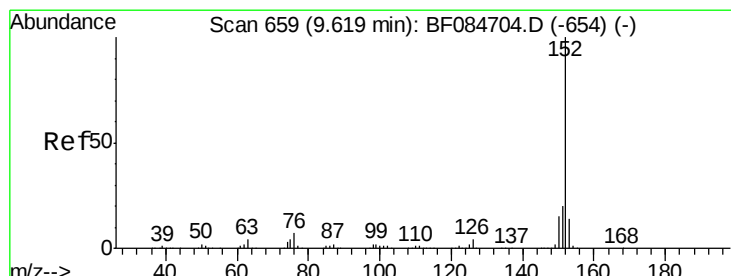
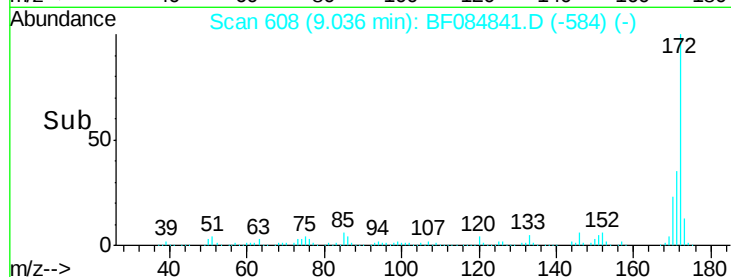
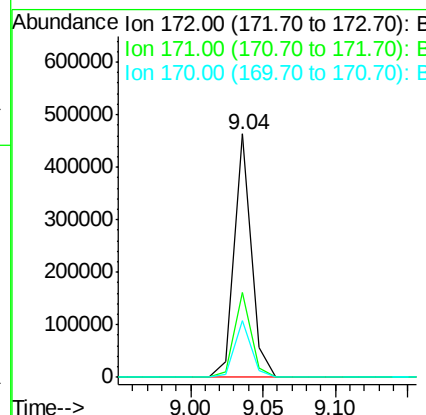
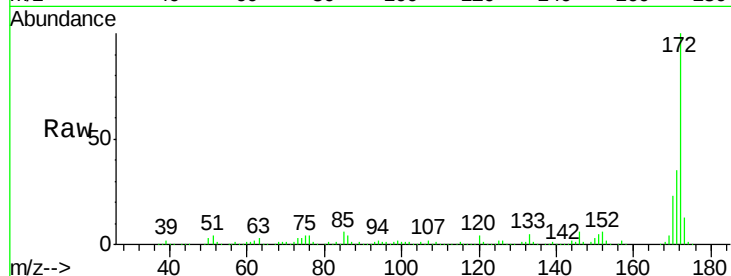
#44
 2-Fluorobiphenyl
 Concen: 16.98 ng
 RT: 9.04 min Scan# 608
 Delta R.T. -0.02 min
 Lab File: BF084841.D
 Acq: 4 Feb 2016 21:08

Instrument :
 BNA_F
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 S4-B013(6-8)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	378633		
171	34.8		28.9	43.3
170	23.4		18.6	27.8

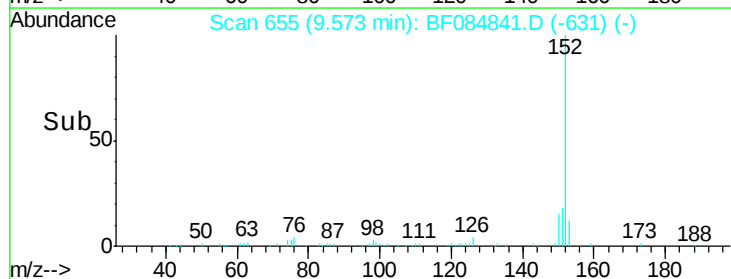
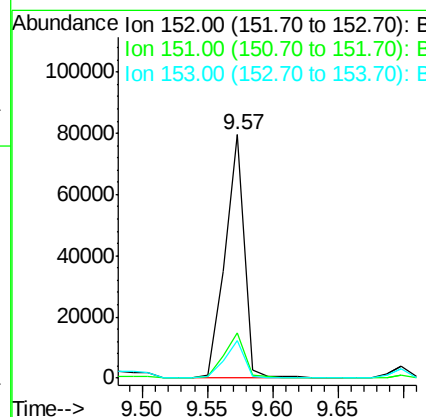
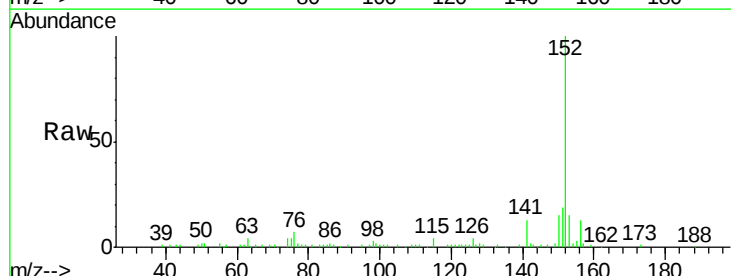
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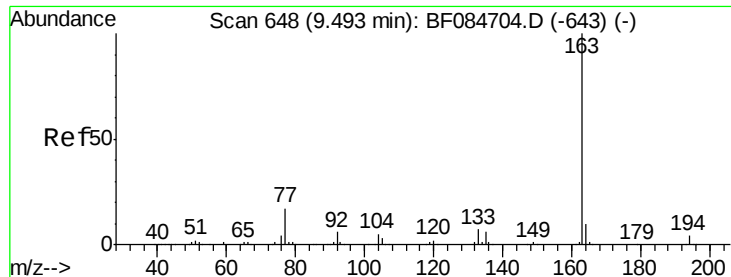
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#48
 Acenaphthylene
 Concen: 2.91 ng
 RT: 9.57 min Scan# 655
 Delta R.T. -0.02 min
 Lab File: BF084841.D
 Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	82489		
151	18.7		16.3	24.5
153	15.3		10.4	15.6





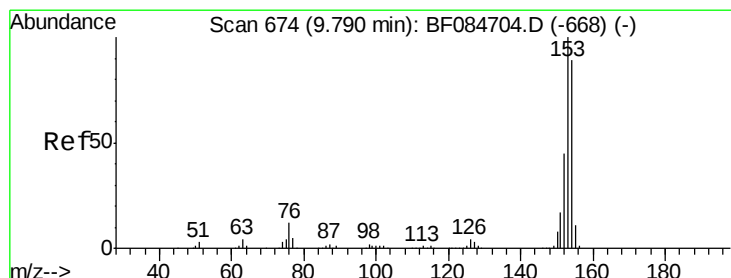
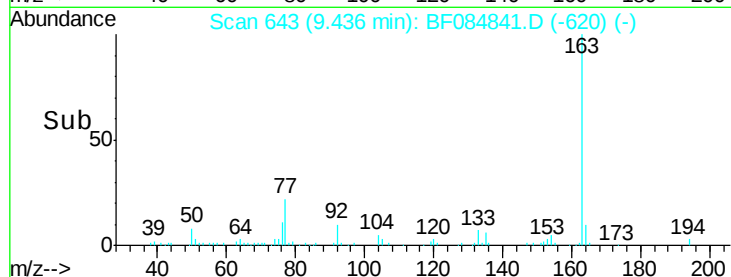
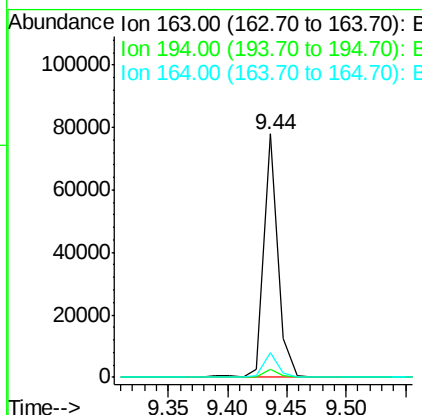
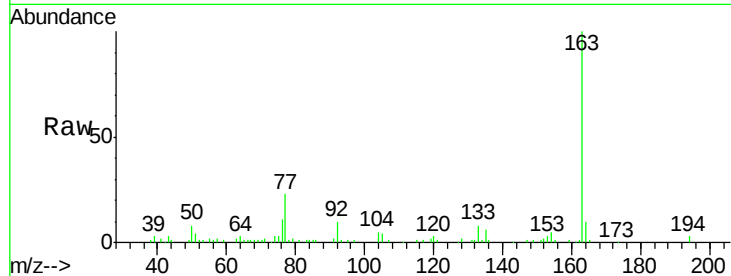
#49
Dimethylphthalate
Concen: 2.99 ng
RT: 9.44 min Scan# 643
Delta R.T. -0.03 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	64690		
194	3.3	8.0	12.0	
164	10.2	8.0	12.0	

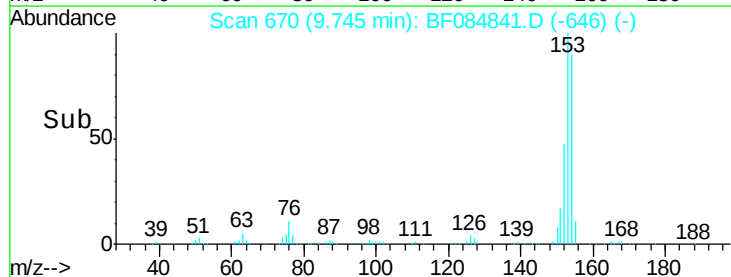
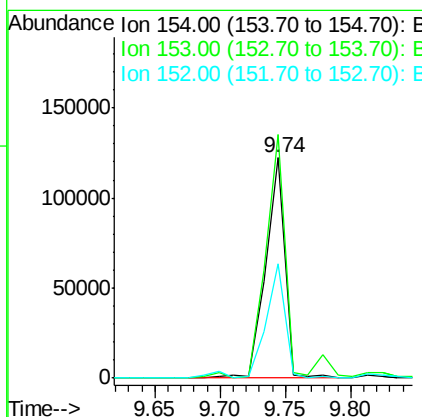
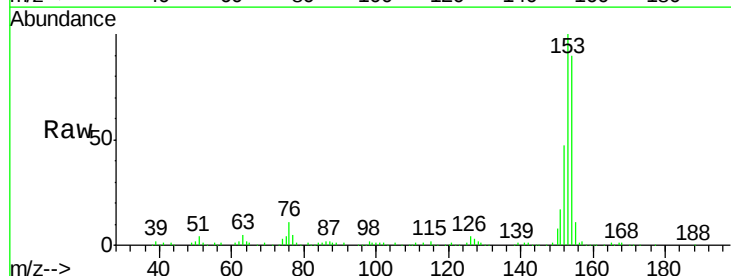
Manual Integrations
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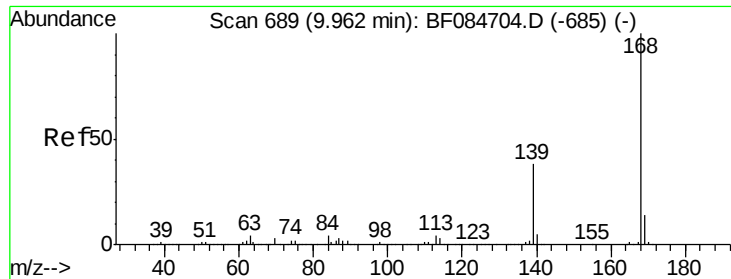
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#51
Acenaphthene
Concen: 6.83 ng
RT: 9.74 min Scan# 670
Delta R.T. -0.02 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	125781		
153	110.7	91.5	137.3	
152	51.9	43.0	64.6	





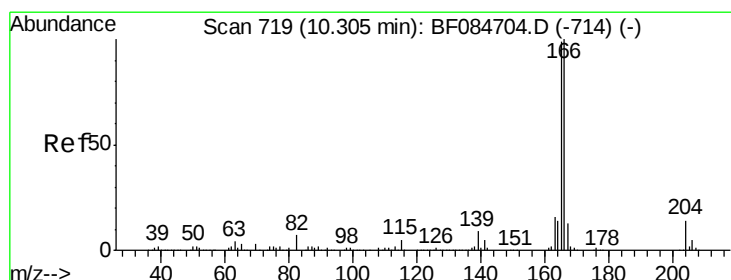
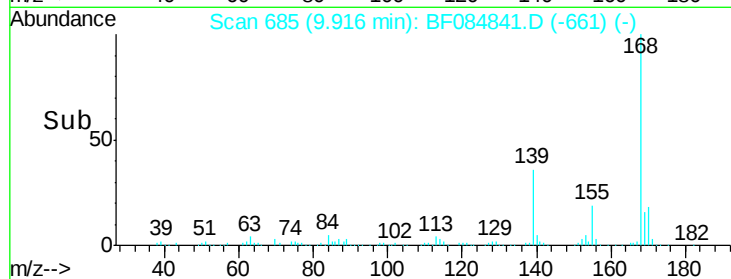
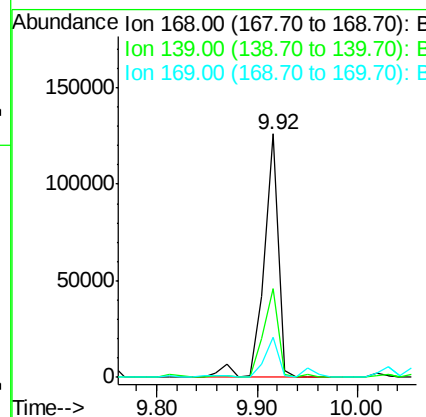
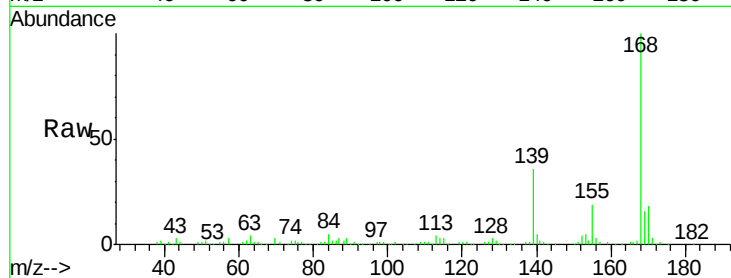
#54
Dibenzofuran
Concen: 5.58 ng
RT: 9.92 min Scan# 685
Delta R.T. -0.02 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.4	30.5	45.7
169	16.2	10.4	15.6

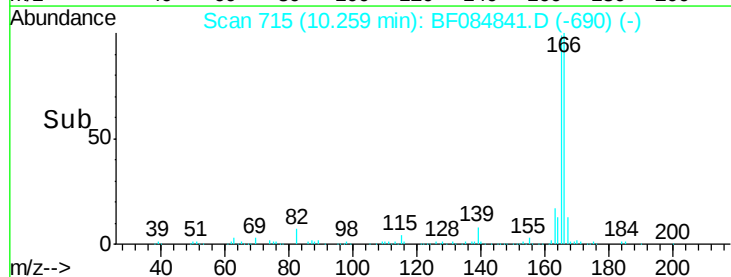
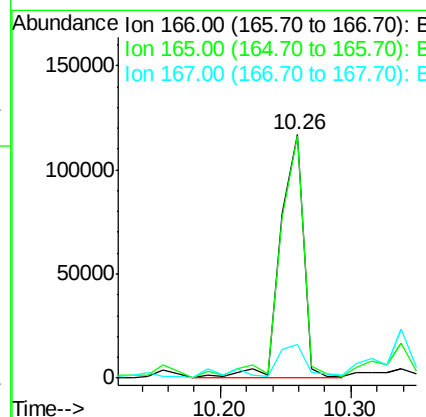
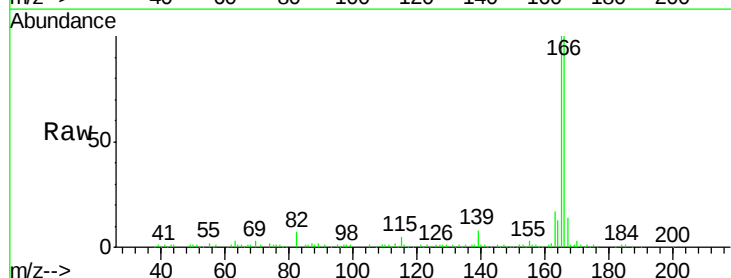
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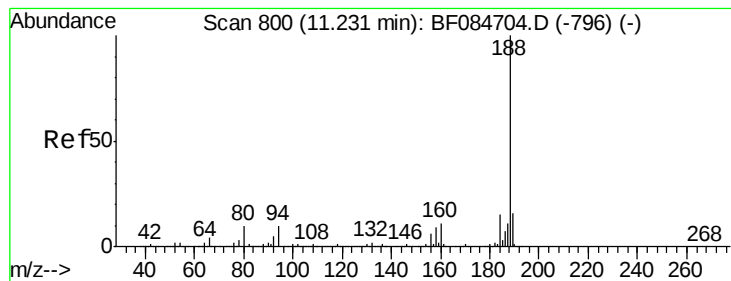
mohammad
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#57
Fluorene
Concen: 7.75 ng
RT: 10.26 min Scan# 715
Delta R.T. -0.01 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.1	118.7
167	13.8	10.4	15.6





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.18 min Scan# 796

Delta R.T. -0.02 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Instrument :

BNA_F

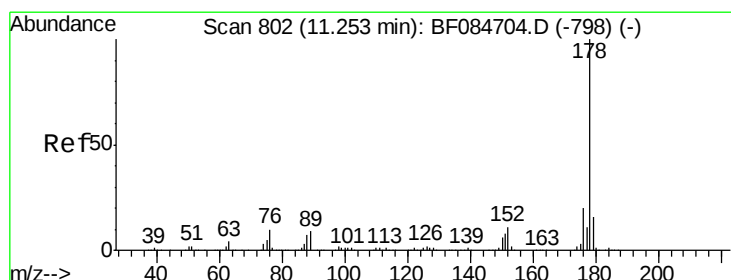
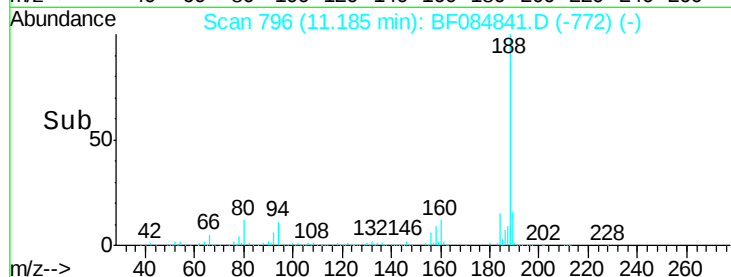
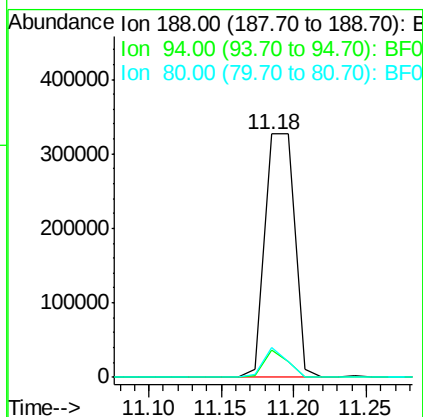
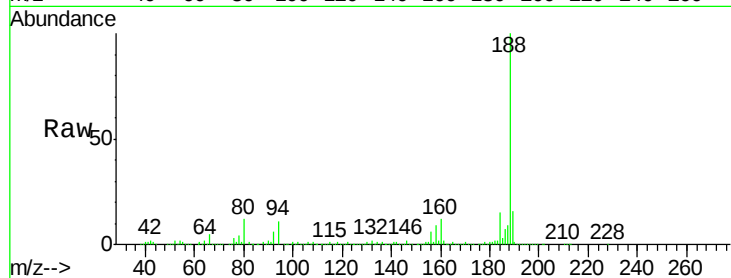
ClientSampleId :

S4-B013(6-8)

Tot Ion:188	Resp: 465797
Ion Ratio	Lower Upper
188 100	
94 11.2	9.0 13.4
80 12.3	9.6 14.4

Manual Integrations
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#70

Phenanthrene

Concen: 73.32 ng

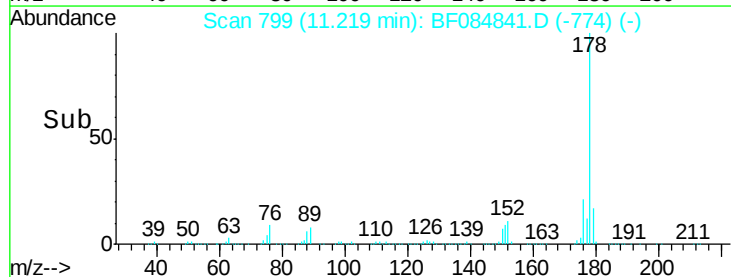
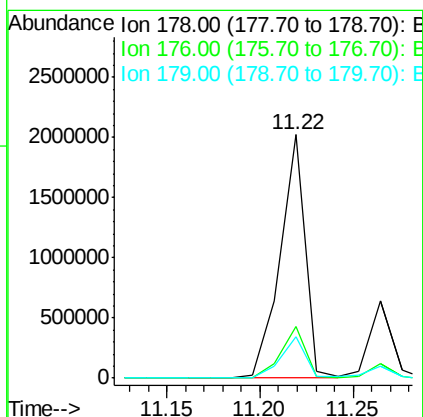
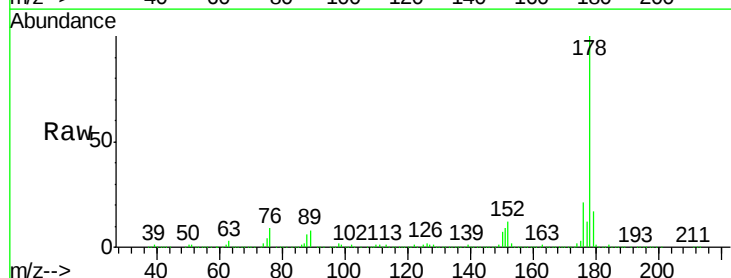
RT: 11.22 min Scan# 799

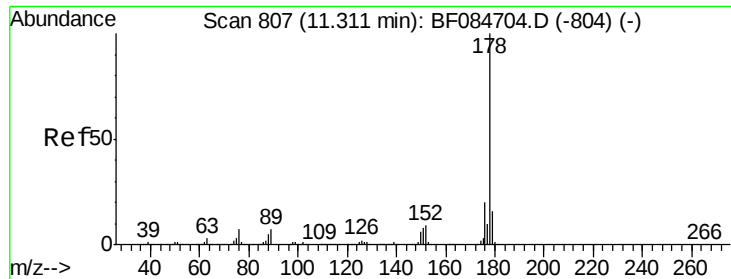
Delta R.T. -0.01 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Tgt Ion:178	Resp: 1894271
Ion Ratio	Lower Upper
178 100	
176 21.1	15.3 22.9
179 16.8	12.0 18.0





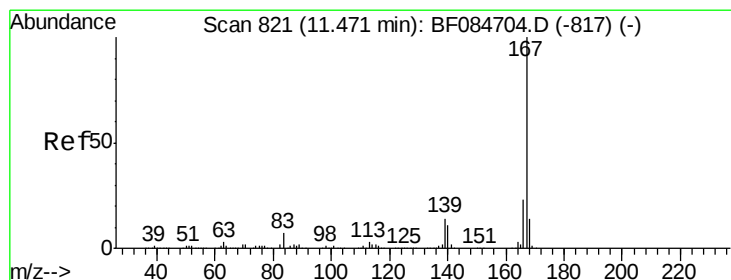
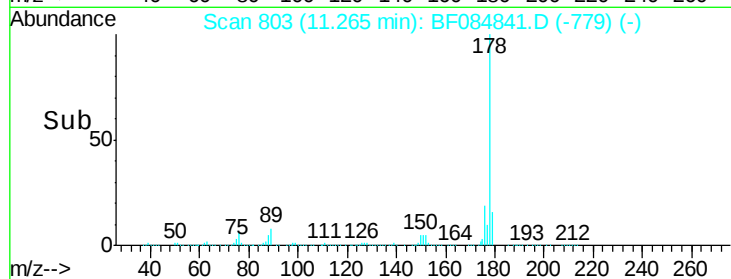
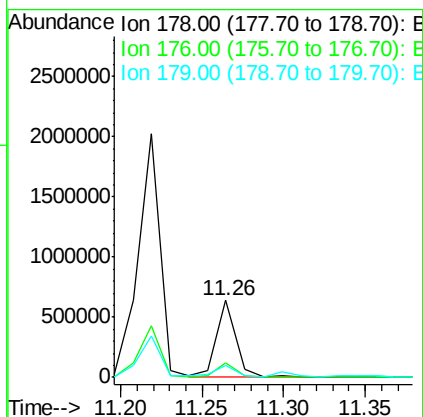
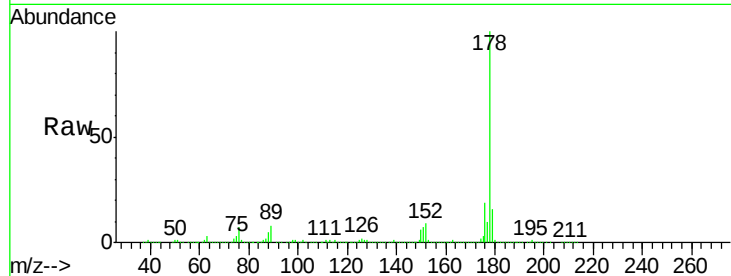
#71
 Anthracene
 Concen: 20.40 ng
 RT: 11.26 min Scan# 803
 Delta R.T. -0.02 min
 Lab File: BF084841.D
 Acq: 4 Feb 2016 21:08

Instrument :
 BNA_F
 ClientSampleId :
 S4-B013(6-8)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	16.1	12.5	18.7

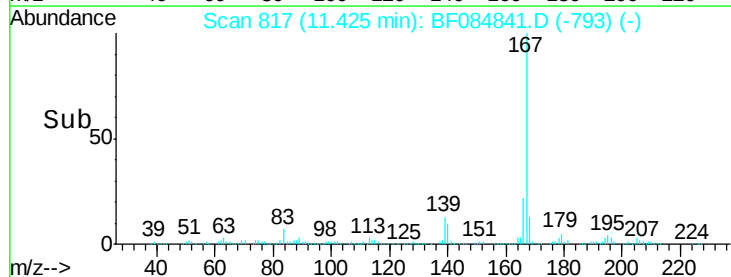
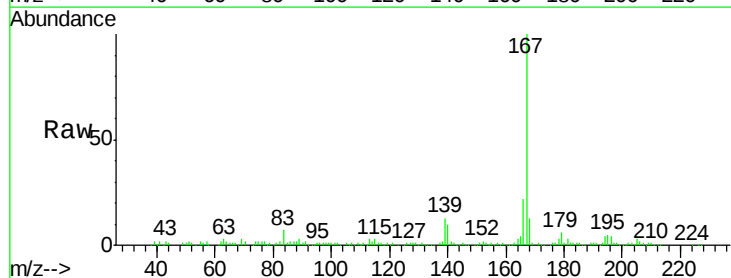
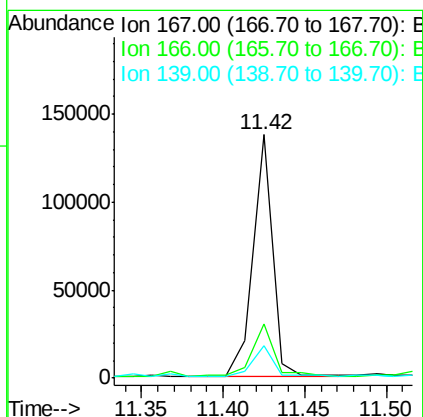
Manual Integrations
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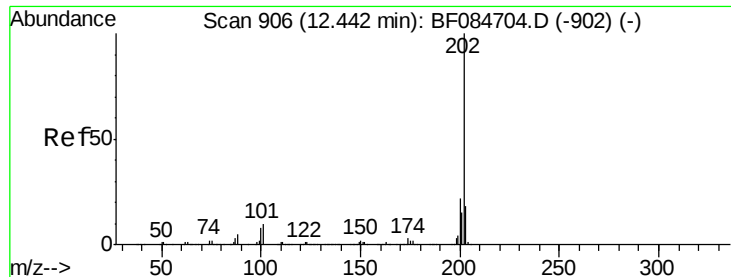
mohammad
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#72
 Carbazole
 Concen: 5.11 ng
 RT: 11.42 min Scan# 817
 Delta R.T. -0.02 min
 Lab File: BF084841.D
 Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.6	26.4
139	13.2	11.8	17.8





#74

Fluoranthene

Concen: 85.47 ng

RT: 12.41 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Instrument :

BNA_F

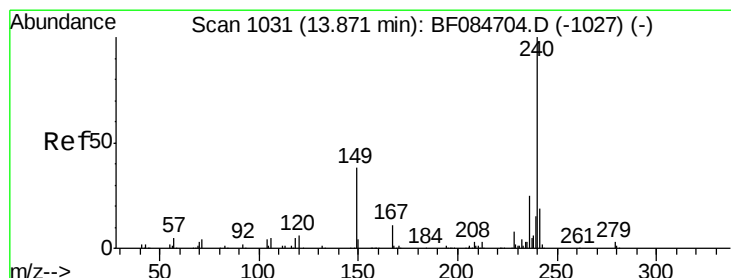
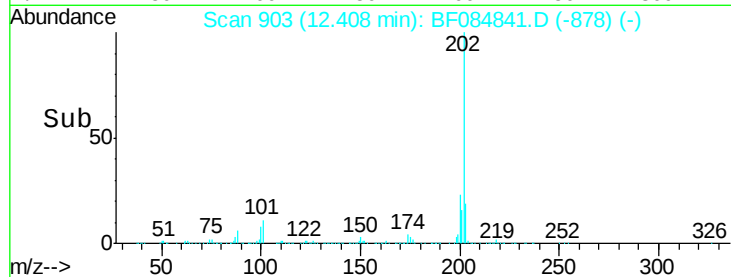
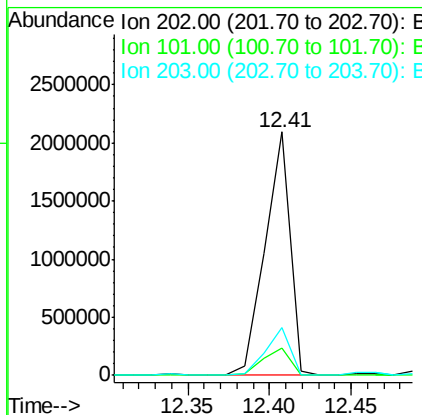
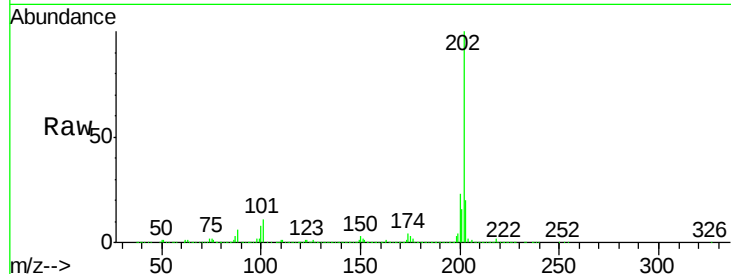
ClientSampleId :

S4-B013(6-8)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		2234831		
101	11.3	0.0	32.8		
203	19.5	0.0	37.9		

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#75

Chrysene-d12

Concen: 20.00 ng

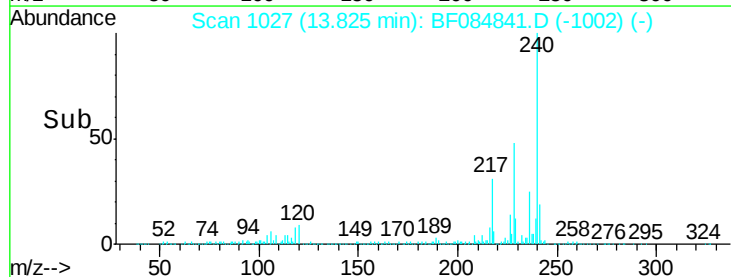
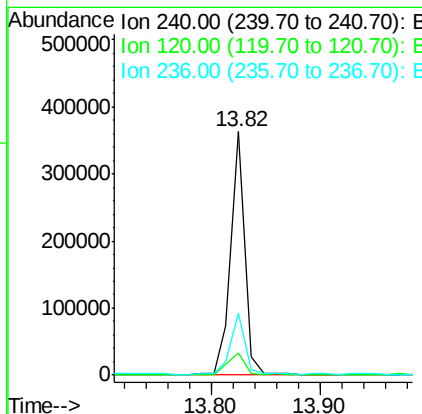
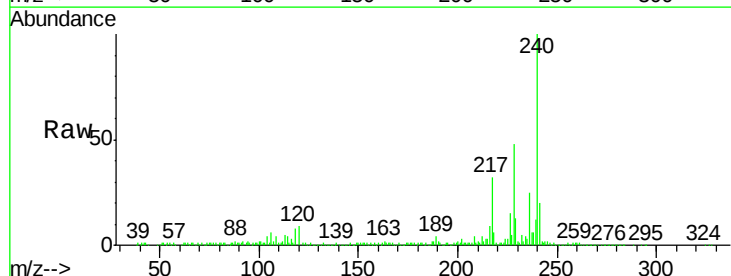
RT: 13.82 min Scan# 1027

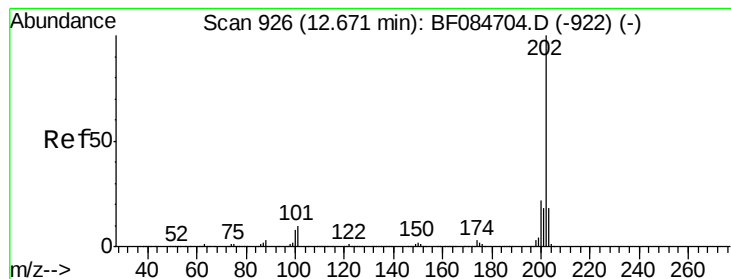
Delta R.T. -0.01 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		322036		
120	9.2	9.5	14.3#		
236	25.5	20.6	31.0		





#77

Pvrene

Concen: 89.15 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.00 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Instrument :

BNA_F

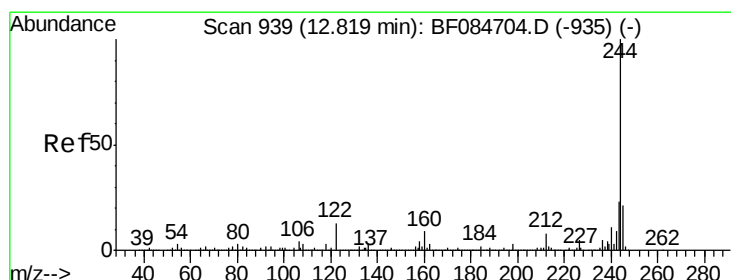
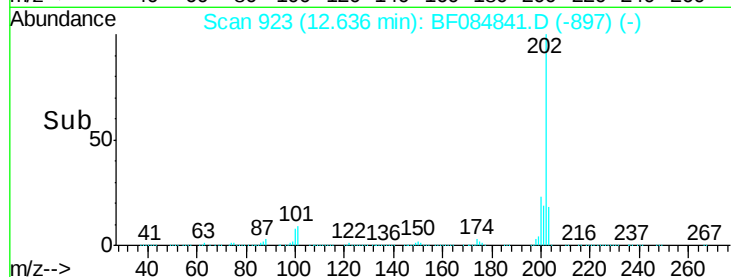
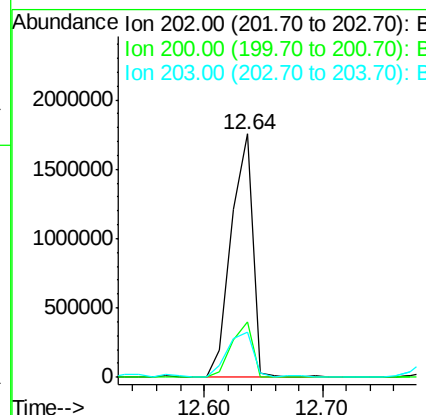
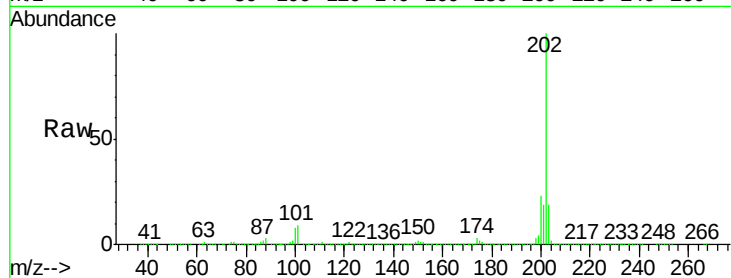
ClientSampleId :

S4-B013(6-8)

Tot Ion	Ion	Ratio	Lower	Upper
202	100			
200	22.6	17.2	25.8	
203	18.7	14.3	21.5	

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#78

Terphenyl-d14

Concen: 19.34 ng

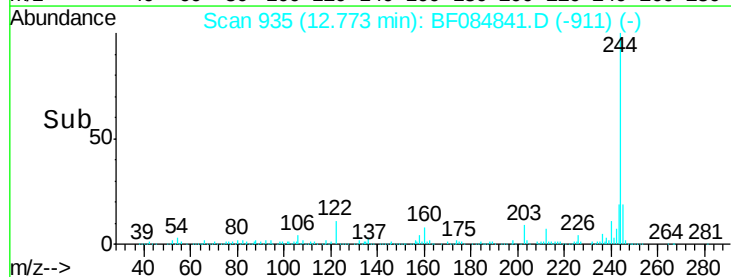
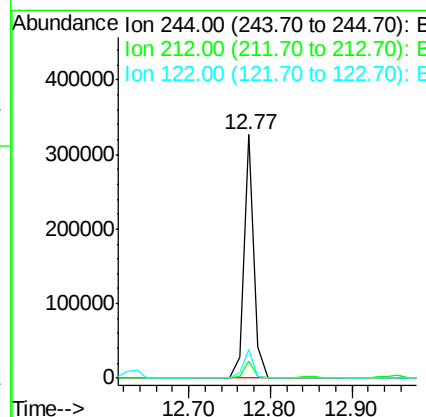
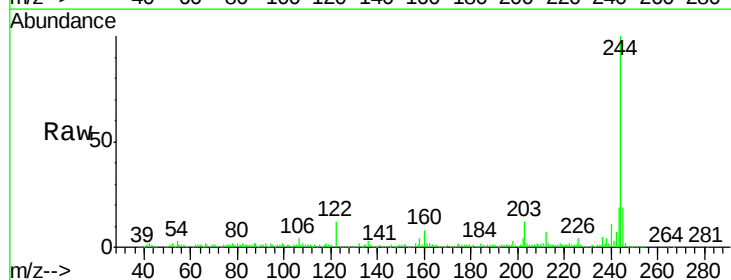
RT: 12.77 min Scan# 935

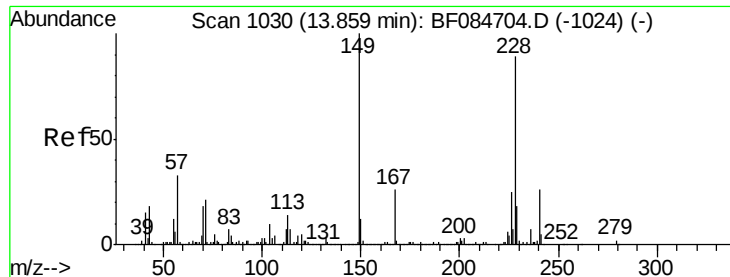
Delta R.T. -0.02 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Tgt Ion	Ion	Ratio	Lower	Upper
244	100			
212	6.8	5.7	8.5	
122	11.6	7.4	11.0#	





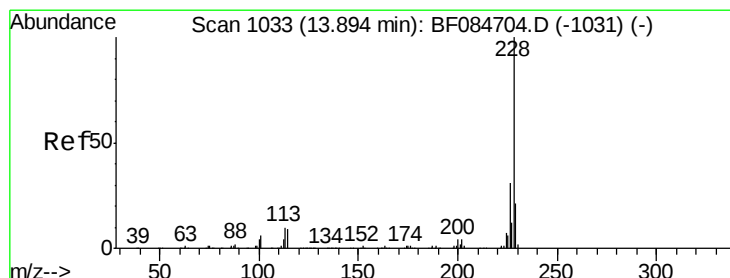
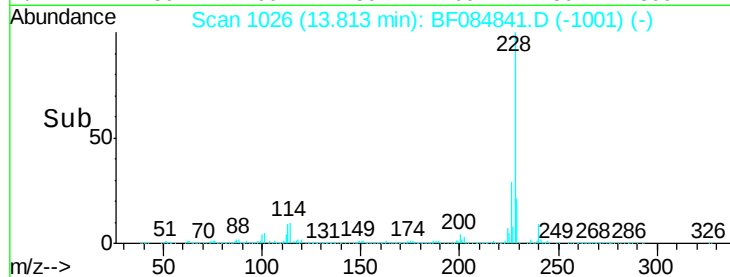
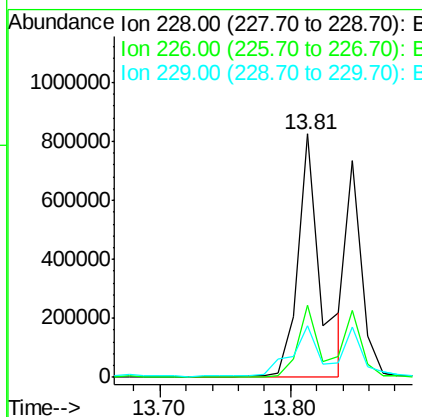
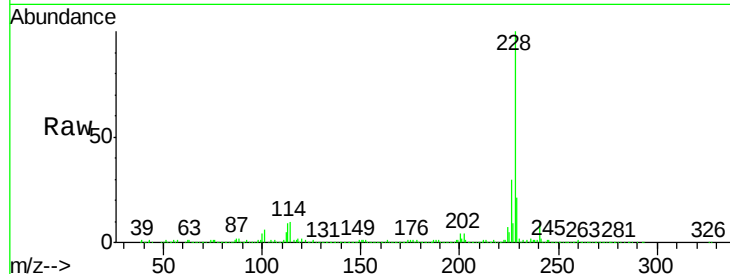
#80
Benzo(a)anthracene
Concen: 49.61 ng
RT: 13.81 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Instrument :
BNA_F
ClientSampled :
S4-B013(6-8)

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.6	21.8	32.6
229	21.4	15.8	23.8

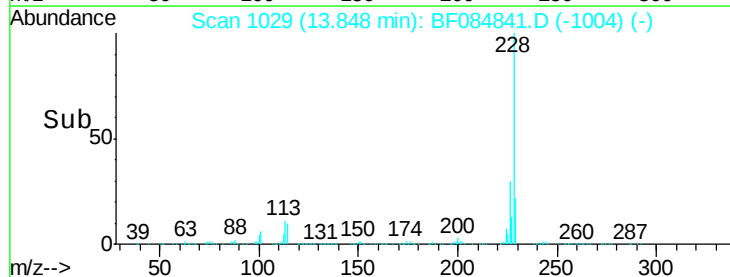
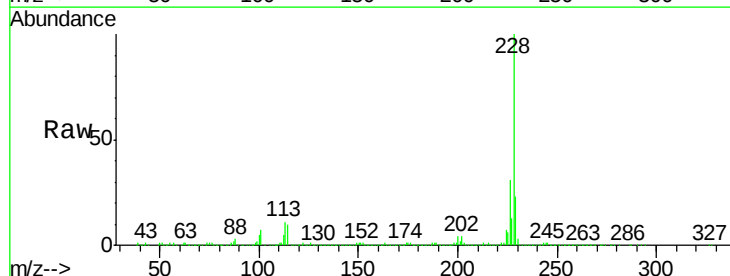
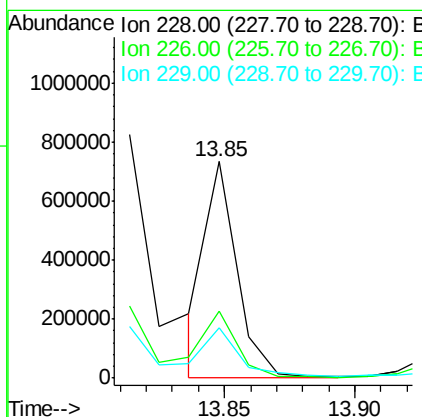
Manual Integrations
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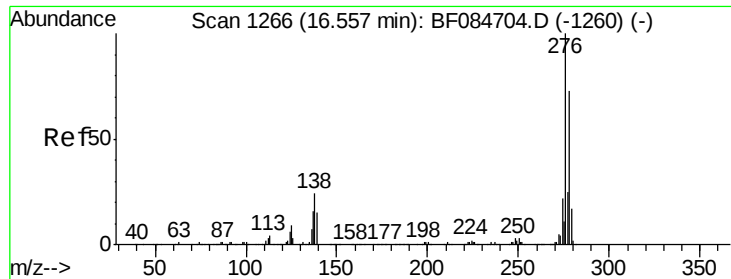
mohammad
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#82
Chrysene
Concen: 31.30 ng
RT: 13.85 min Scan# 1029
Delta R.T. -0.01 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.3	36.5
229	23.3	16.1	24.1





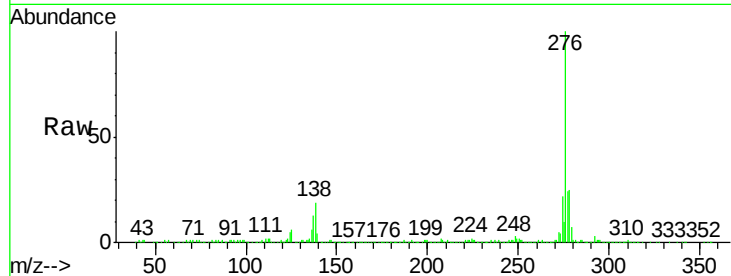
#85
Indeno(1,2,3-cd)pyrene
Concen: 29.66 ng
RT: 16.49 min Scan# 1260
Delta R.T. -0.01 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.2	20.6	30.8
277	26.7	20.1	30.1

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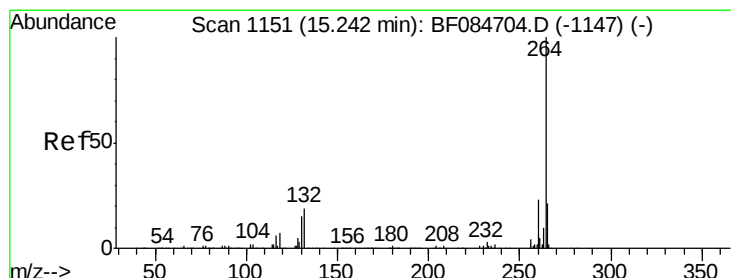
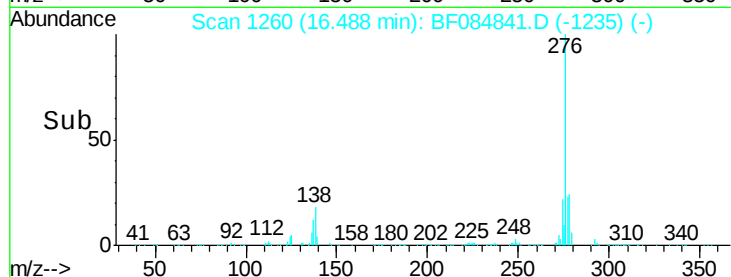
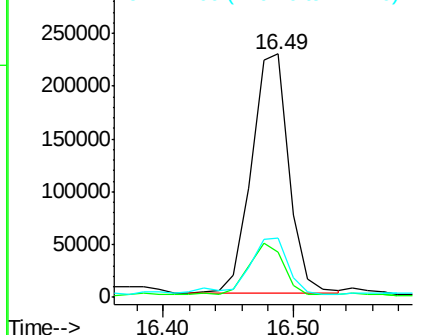


Abundance

Ion 276.00 (275.70 to 276.70): E

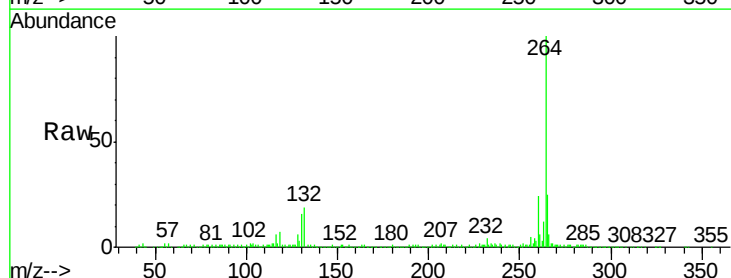
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.20 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	24.5	17.8	26.6

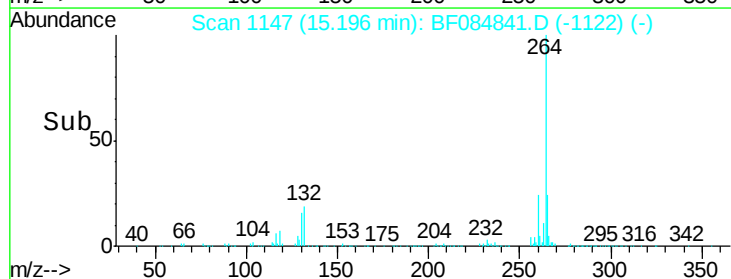
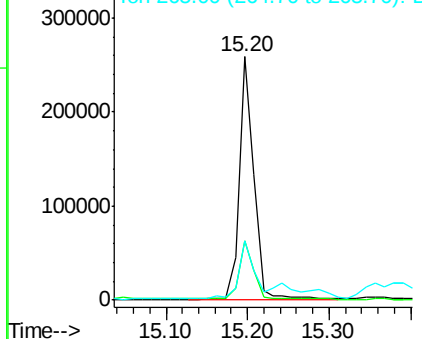


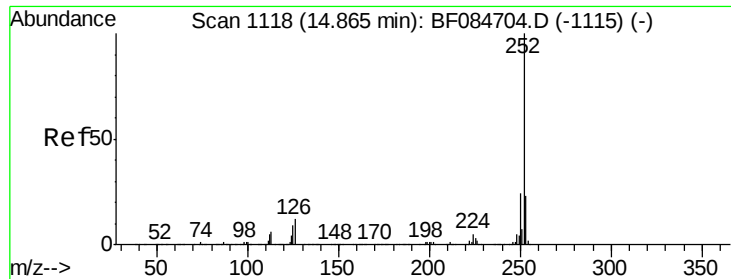
Abundance

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





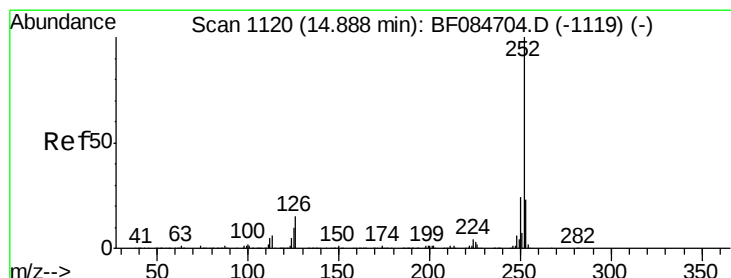
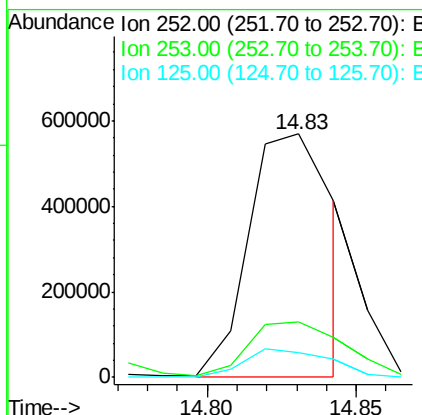
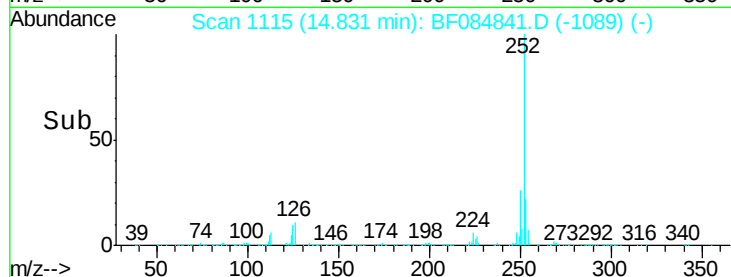
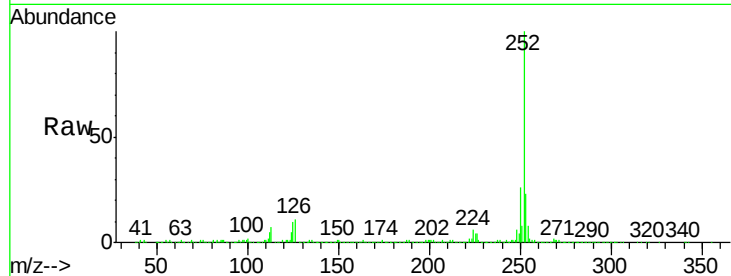
#87
Benzo(b)fluoranthene
Concen: 51.98 ng m
RT: 14.83 min Scan# 1115
Delta R.T. -0.00 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.3	25.9
125	10.3	6.5	9.7

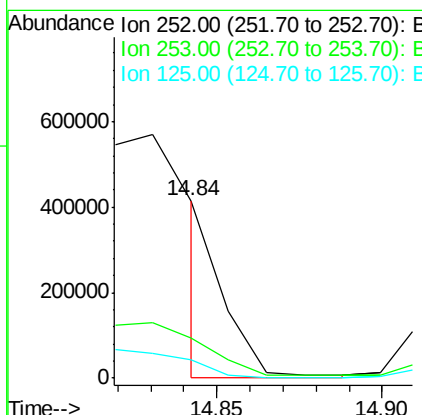
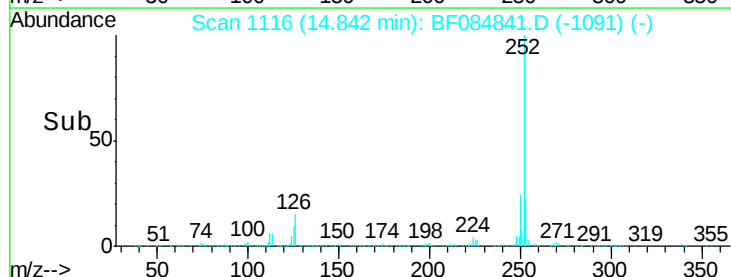
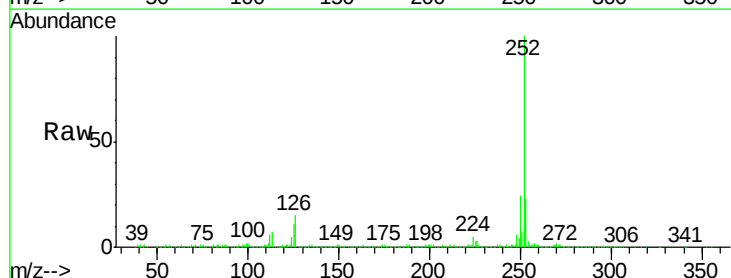
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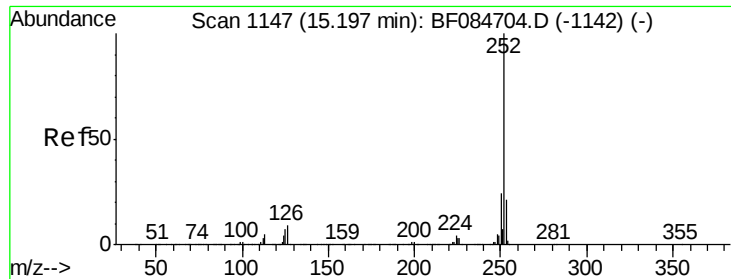
mohammad
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#88
Benzo(k)fluoranthene
Concen: 7.05 ng m
RT: 14.84 min Scan# 1116
Delta R.T. -0.01 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	10.6	9.0	13.6





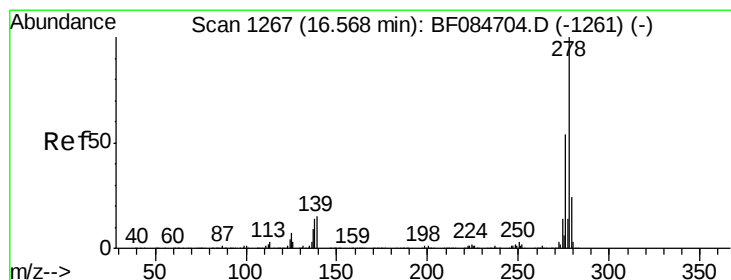
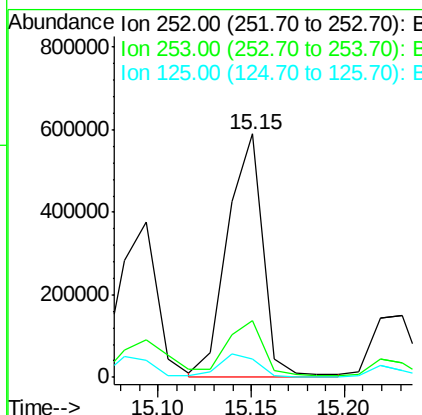
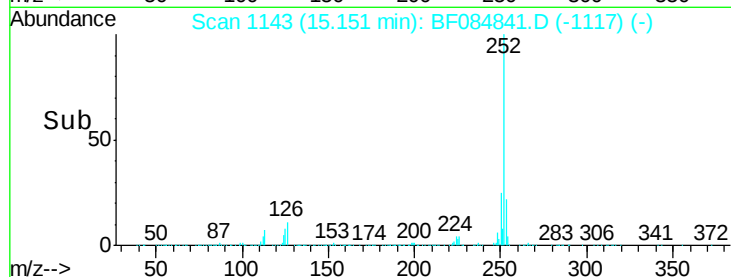
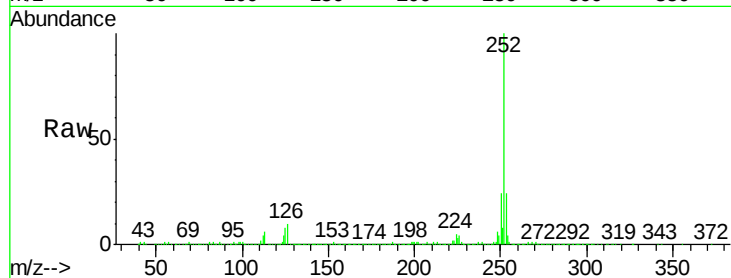
#89
Benzo(a)pyrene
Concen: 42.08 ng
RT: 15.15 min Scan# 1143
Delta R.T. -0.00 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.3	25.9
125	7.6	7.0	10.4

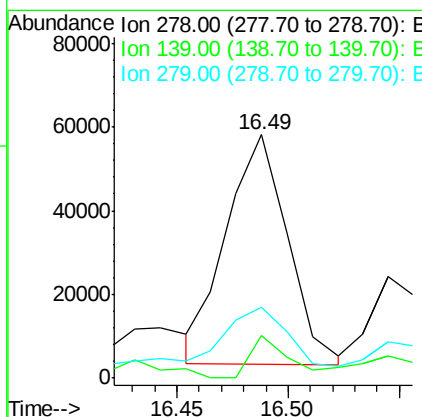
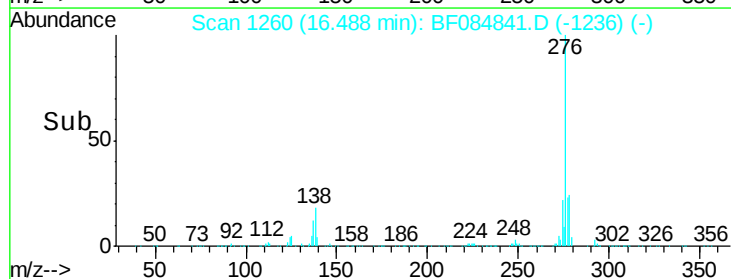
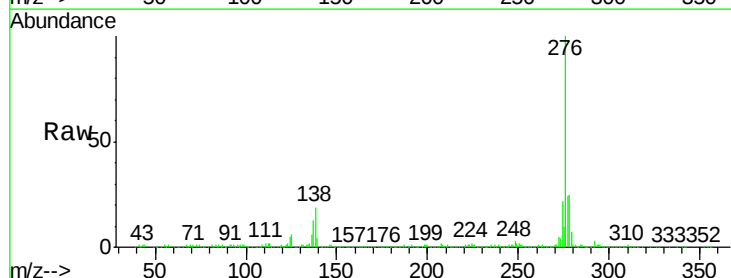
Manual Integrations
APPROVED

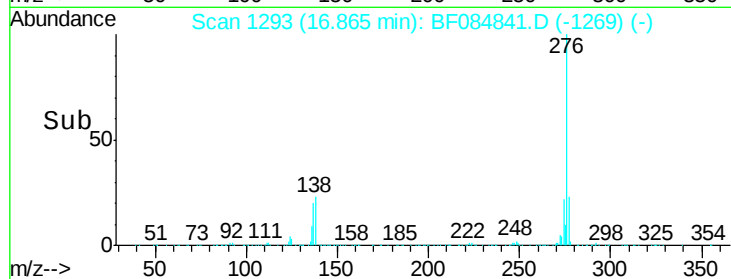
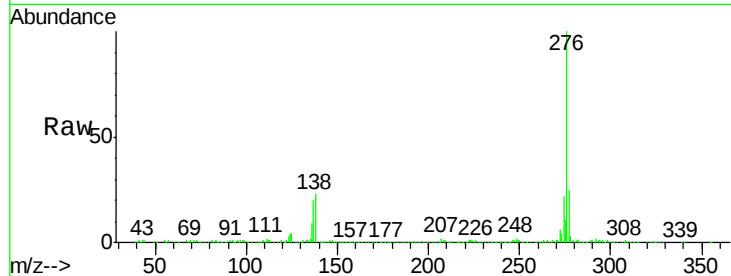
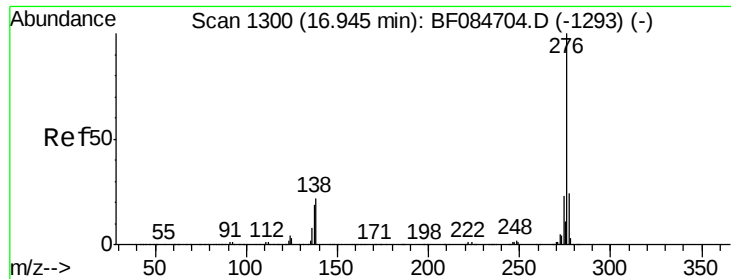
mohammad
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#90
Dibenzo(a,h)anthracene
Concen: 6.76 ng m
RT: 16.49 min Scan# 1260
Delta R.T. -0.02 min
Lab File: BF084841.D
Acq: 4 Feb 2016 21:08

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.5	15.0	22.4
279	28.9	18.9	28.3#





#91

Benzo(a,h,i)perylene

Concen: 29.10 ng

RT: 16.87 min Scan# 1293

Delta R.T. -0.02 min

Lab File: BF084841.D

Acq: 4 Feb 2016 21:08

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)

Tot Ion:	276	Resp:	454025
Ion Ratio	Lower	Upper	
276	100		
277	24.6	18.8	28.2
138	22.9	17.8	26.6

Manual Integrations
APPROVED

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