

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
 Data File : BF084687.D
 Acq On : 30 Jan 2016 15:45
 Operator : SJ/IZ
 Sample : H1272-07 5X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B013(16-18)

Manual Integrations
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Quant Time: Feb 01 04:27:37 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 29 12:54:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	191867	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	701149	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	310114	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	516130	20.00	ng	0.00
75) Chrysene-d12	13.88	240	391203	20.00	ng	0.01
86) Perylene-d12	15.27	264	428385	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	256768	20.20	ng	0.01
7) Phenol-d6	6.37	99	317051	20.81	ng	0.00
23) Nitrobenzene-d5	7.29	82	200096	15.95	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	60250	18.54	ng	-0.01
44) 2-Fluorobiphenyl	9.09	172	315920	15.14	ng	0.00
78) Terphenyl-d14	12.83	244	225133	13.00	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.03	128	543561	15.36	ng	99
37) 2-Methylnaphthalene	8.73	142	277755	12.78	ng	97
45) 1,1'-Biphenyl	9.18	154	65936	2.32	ng	97
51) Acenaphthene	9.79	154	324706	15.43	ng	97
54) Dibenzofuran	9.96	168	267321	10.65	ng	# 89
57) Fluorene	10.30	166	396535	18.63	ng	98
70) Phenanthrene	11.28	178	2796550	97.99	ng	95
71) Anthracene	11.32	178	890946	30.70	ng	99
72) Carbazole	11.48	167	277204	11.08	ng	# 96
74) Fluoranthene	12.45	202	1905636	67.54	ng	98
77) Pyrene	12.68	202	1644676	55.74	ng	97
80) Benzo(a)anthracene	13.87	228	919580	37.71	ng	98
82) Chrysene	13.91	228	816251m	33.96	ng	
85) Indeno(1,2,3-cd)pyrene	16.58	276	408760	19.23	ng	95
87) Benzo(b)fluoranthene	14.89	252	1040244m	37.50	ng	
88) Benzo(k)fluoranthene	14.90	252	165091m	7.21	ng	
89) Benzo(a)pyrene	15.21	252	666616	27.78	ng	# 94
90) Dibenzo(a,h)anthracene	16.58	278	114852	5.31	ng	95
91) Benzo(a,h,i)perylene	16.98	276	377128	17.27	ng	95

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

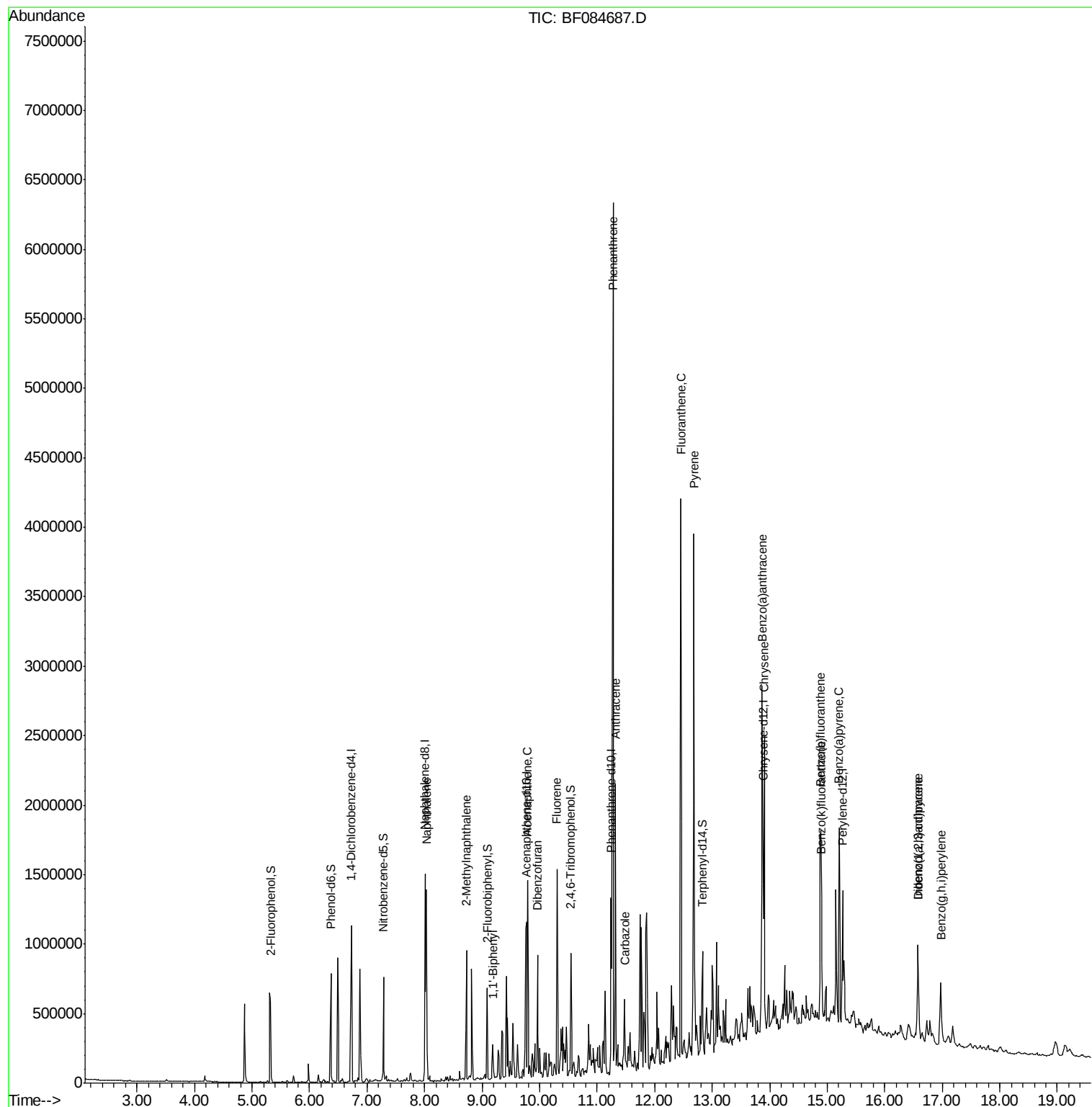
Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
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ALS Vial : 48 Sample Multiplier: 1

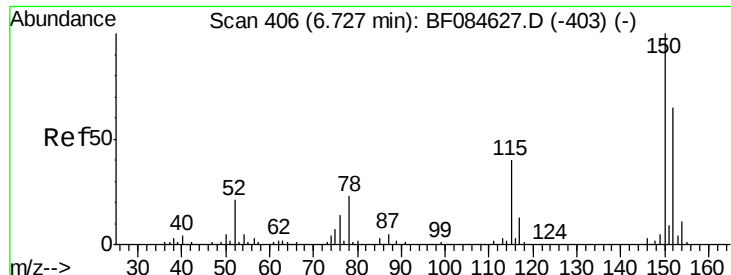
Instrument :
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SUP-B013(16-18)

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Quant Time: Feb 01 04:27:37 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

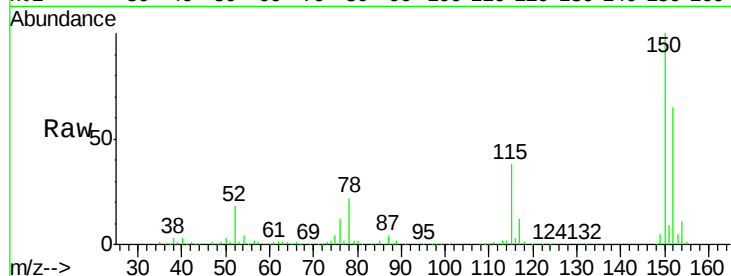
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.73 min Scan# 406
Delta R.T. -0.00 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)

Tot Ion	Ratio	Resp	Lower	Upper
152	100	191867		
150	152.8	123.0	184.4	
115	58.4	51.4	77.2	

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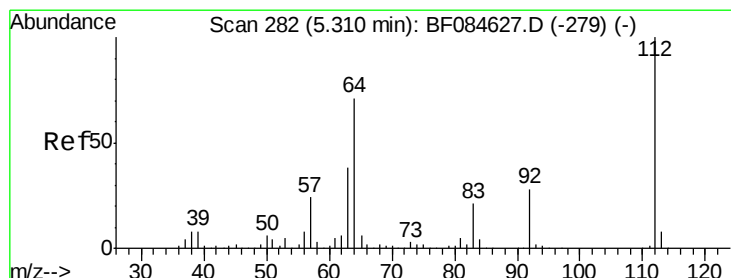
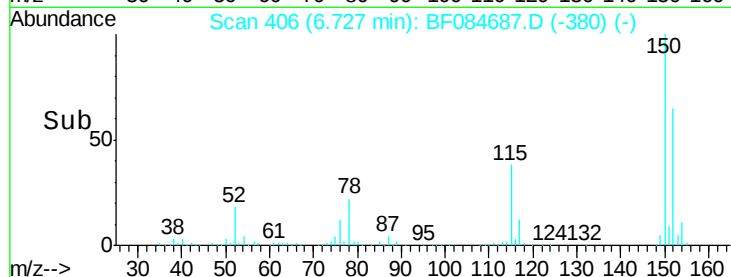
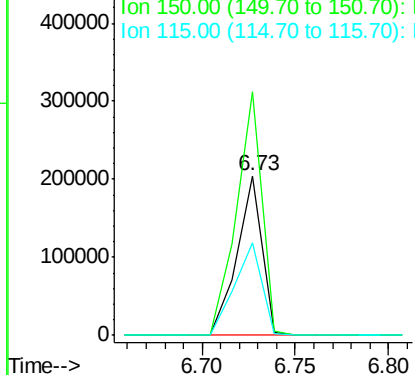


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

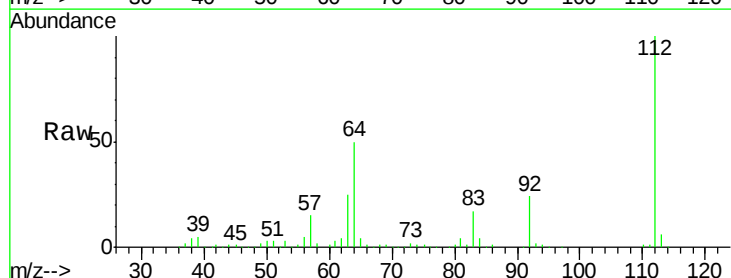
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 20.20 ng
RT: 5.32 min Scan# 283
Delta R.T. 0.01 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	256768		
64	50.1	36.6	55.0	
63	25.2	19.4	29.0	

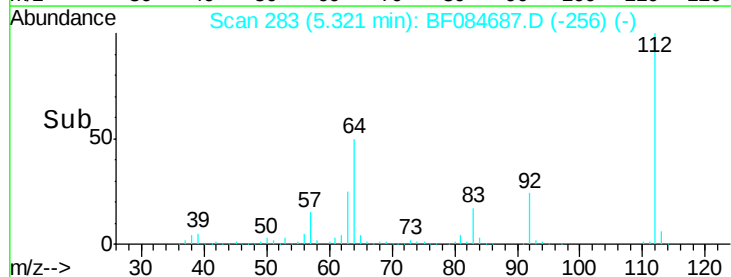
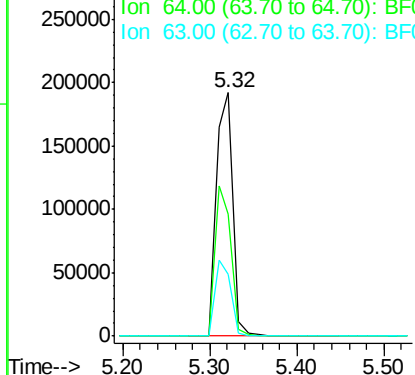


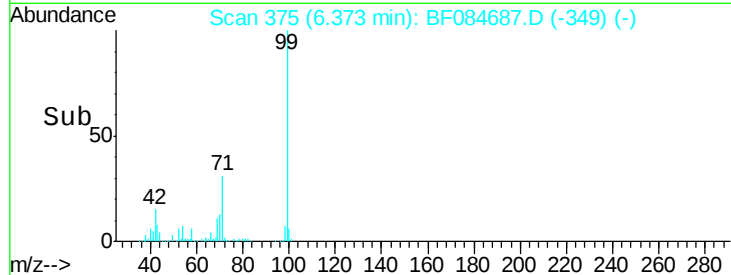
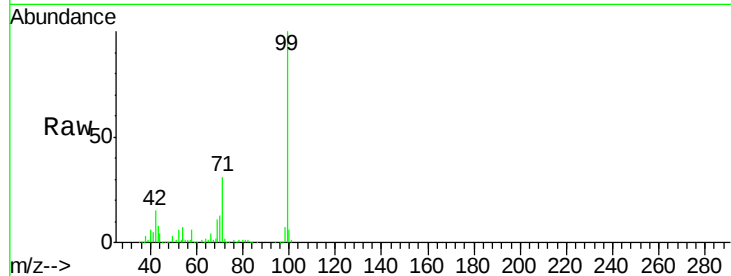
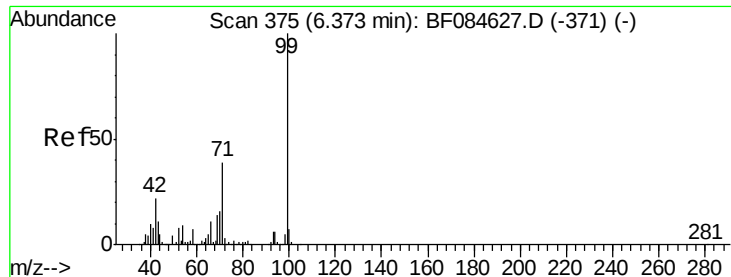
Abundance

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: 20.81 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.00 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		317051		
42	15.5	12.8	19.2		
71	30.6	30.9	46.3#		

Instrument :

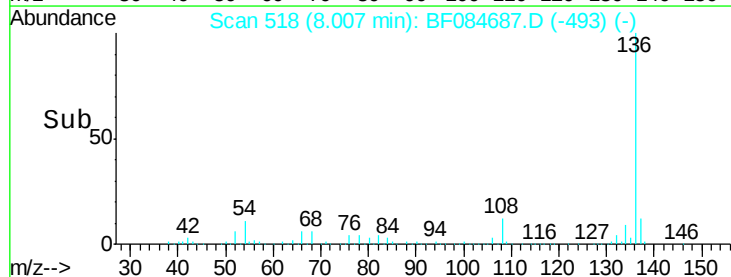
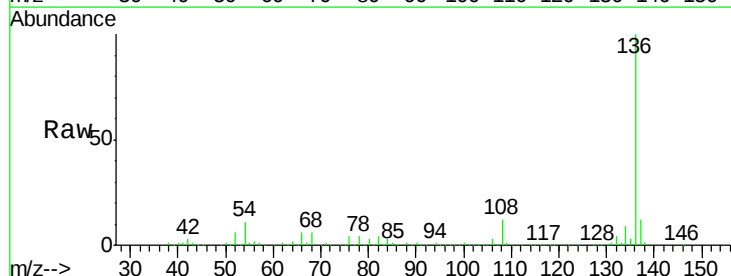
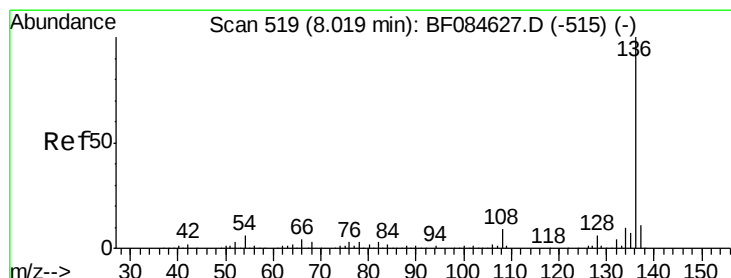
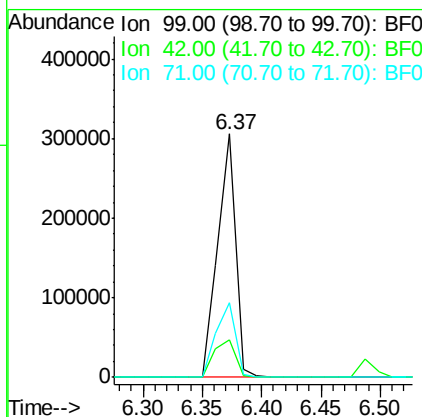
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ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.00 ng

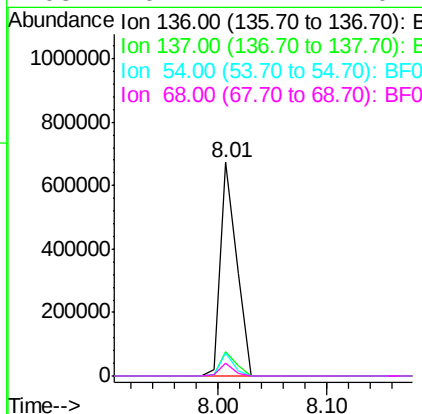
RT: 8.01 min Scan# 518

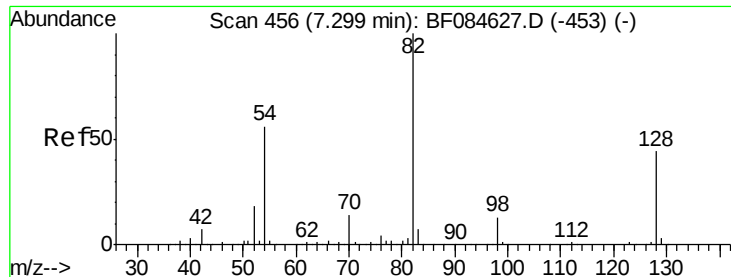
Delta R.T. -0.01 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		701149		
137	11.5	8.7	13.1		
54	11.1	5.8	8.8#		
68	6.1	4.2	6.2		





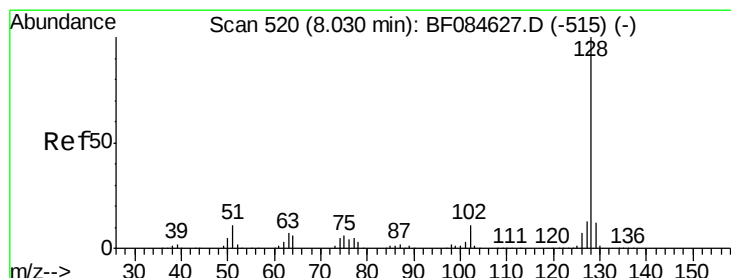
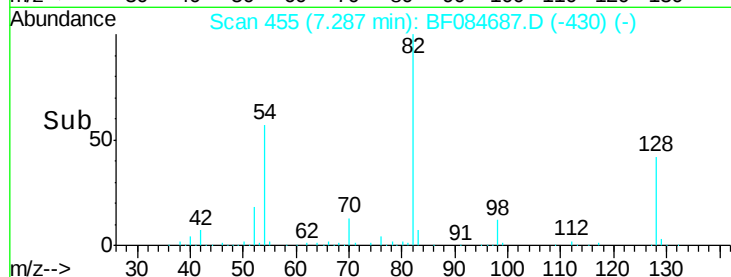
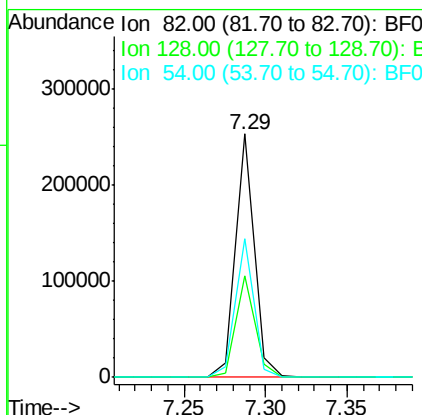
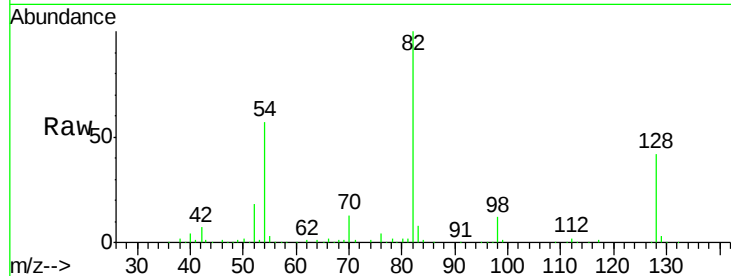
#23
 Nitrobenzene-d5
 Concen: 15.95 ng
 RT: 7.29 min Scan# 455
 Delta R.T. -0.01 min
 Lab File: BF084687.D
 Acq: 30 Jan 2016 15:45

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B013(16-18)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	200096		
128	41.8		34.6	51.8
54	56.8		38.4	57.6

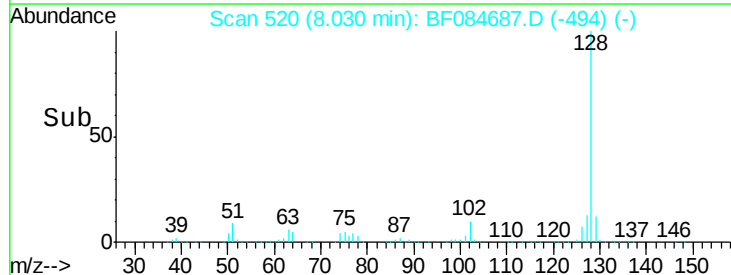
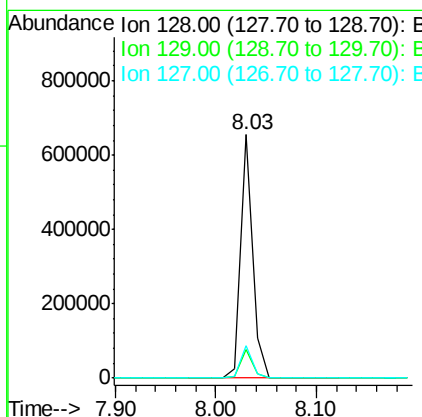
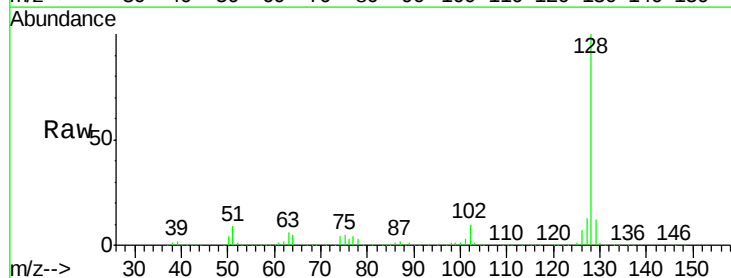
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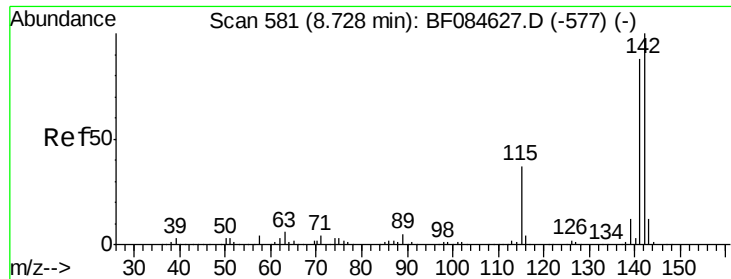
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#31
 Naphthalene
 Concen: 15.36 ng
 RT: 8.03 min Scan# 520
 Delta R.T. -0.00 min
 Lab File: BF084687.D
 Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	543561		
129	11.6		9.1	13.7
127	13.3		11.1	16.7





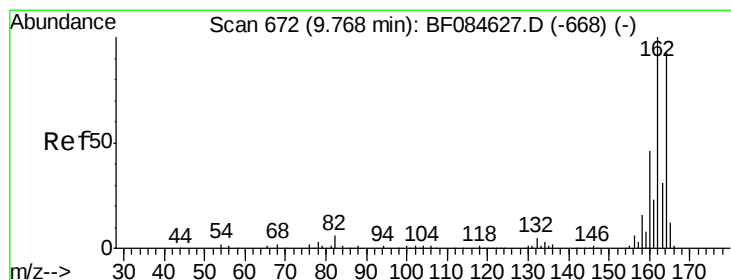
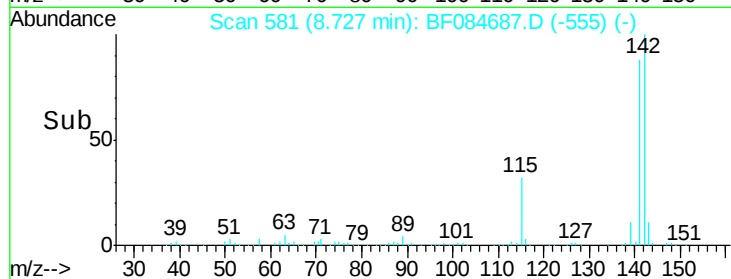
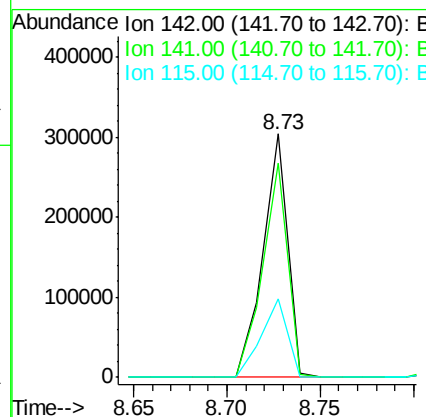
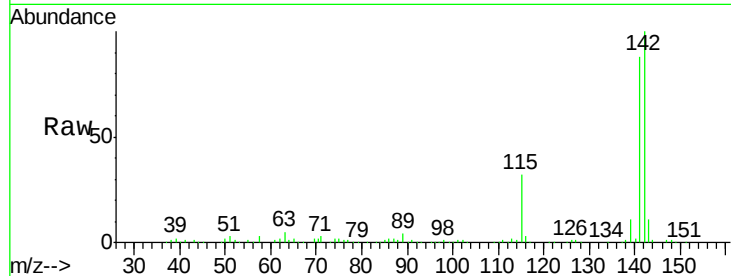
#37
2-Methylnaphthalene
Concen: 12.78 ng
RT: 8.73 min Scan# 581
Delta R.T. -0.00 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	277755		
141	87.9	72.4	108.6	
115	32.1	27.9	41.9	

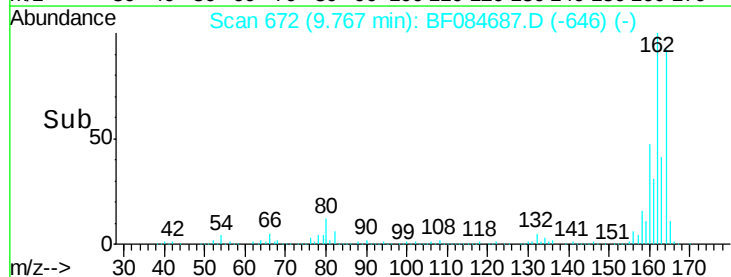
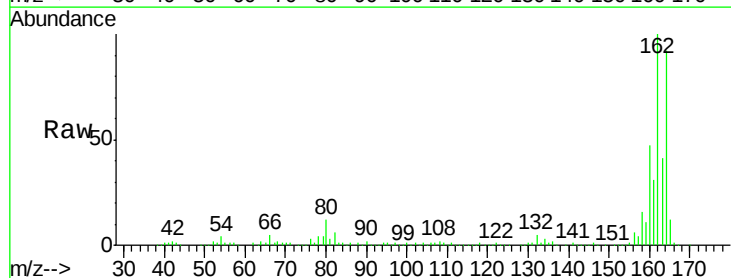
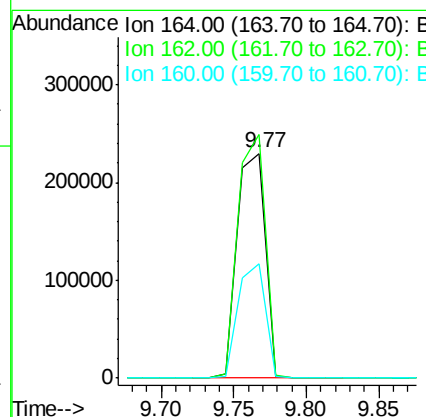
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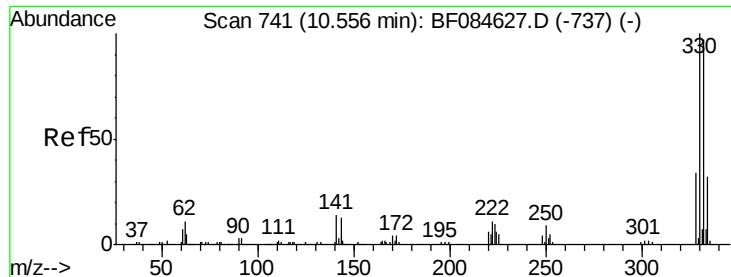
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.77 min Scan# 672
Delta R.T. -0.00 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	310114		
162	108.3	85.1	127.7	
160	50.9	37.5	56.3	





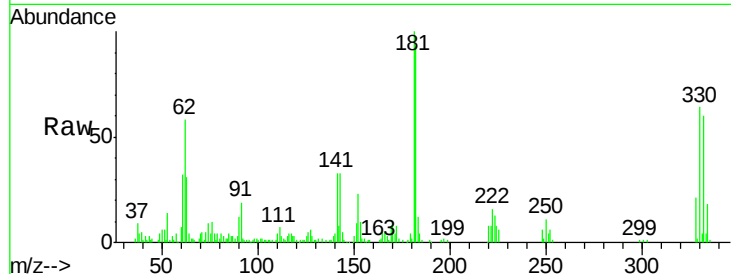
#41
 2,4,6-Tribromophenol
 Concen: 18.54 ng
 RT: 10.54 min Scan# 740
 Delta R.T. -0.01 min
 Lab File: BF084687.D
 Acq: 30 Jan 2016 15:45

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B013(16-18)

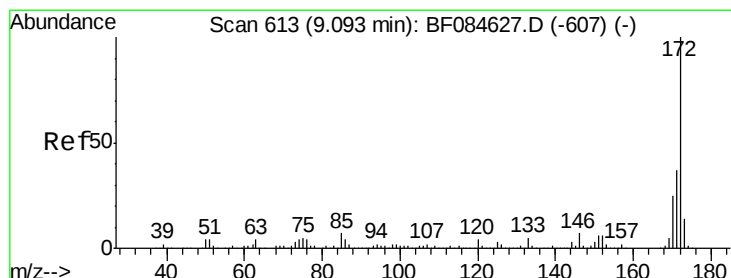
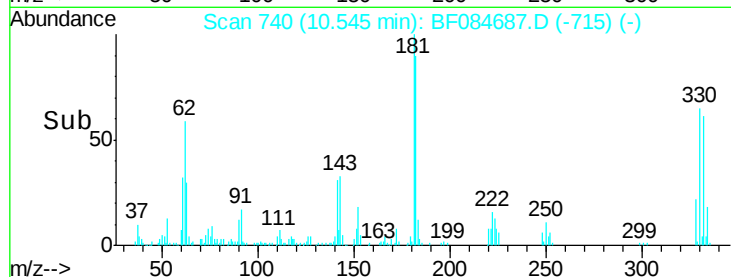
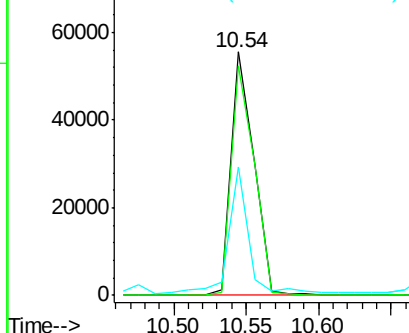
Tot Ion	Ratio	Resp	Lower	Upper
330	100	60250		
332	95.4	76.6	114.8	
141	43.5	27.8	41.6#	

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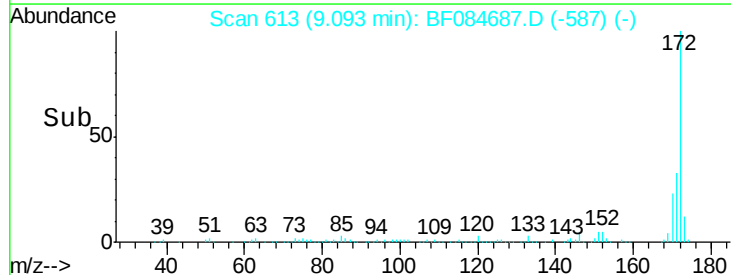
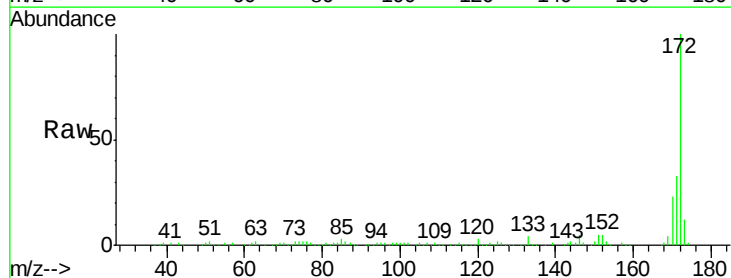
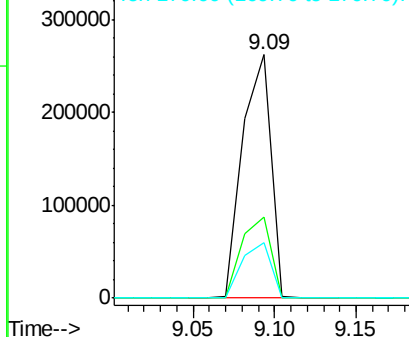
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

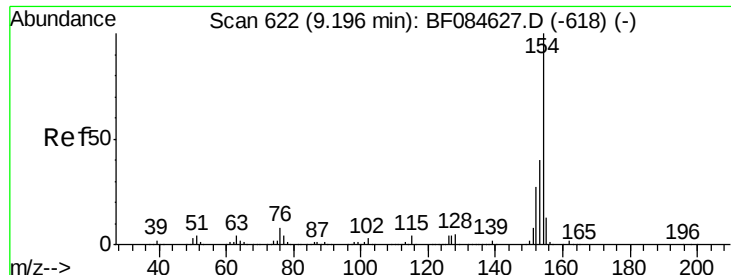


#44
 2-Fluorobiphenyl
 Concen: 15.14 ng
 RT: 9.09 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: BF084687.D
 Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	315920		
171	33.4	28.9	43.3	
170	22.8	18.6	27.8	

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





#45

1,1'-Biphenyl

Concen: 2.32 ng

RT: 9.18 min Scan# 621

Delta R.T. -0.01 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Instrument :

BNA_F

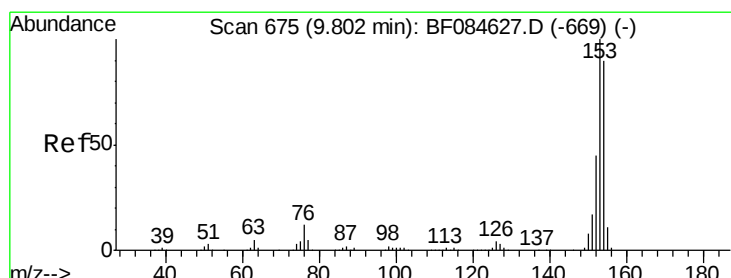
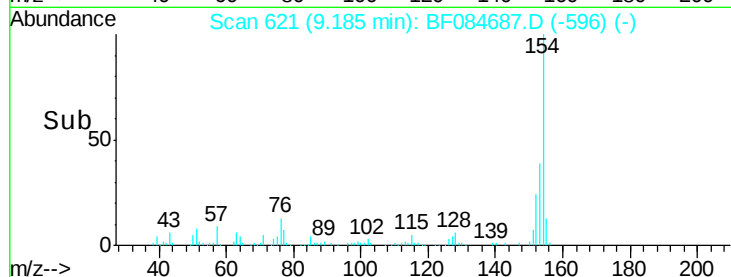
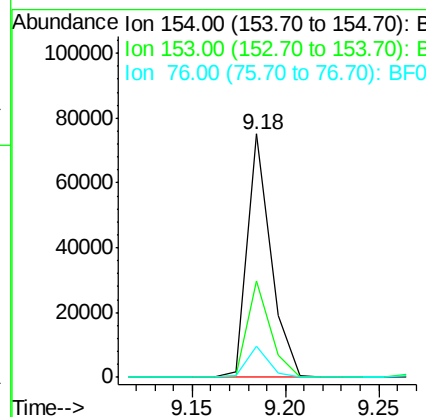
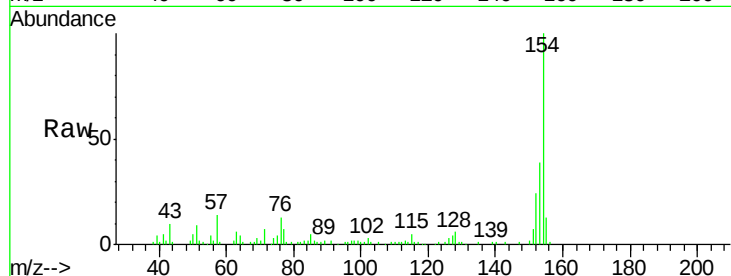
ClientSampleId :

SUP-B013(16-18)

Tot Ion:	154	Resp:	65936
Ion Ratio	Lower	Upper	
154	100		
153	39.4	21.6	61.6
76	12.6	0.0	32.7

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#51

Acenaphthene

Concen: 15.43 ng

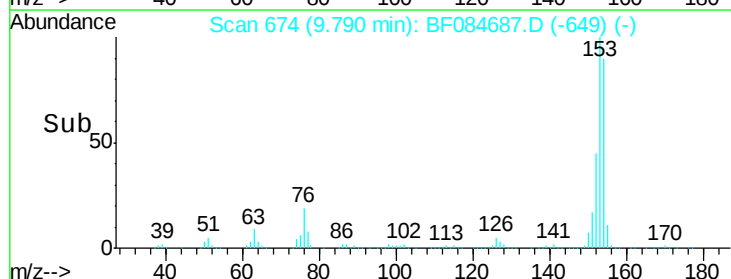
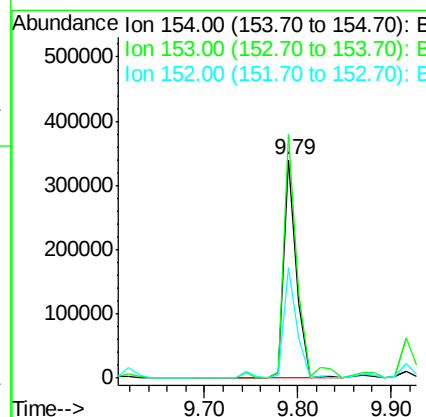
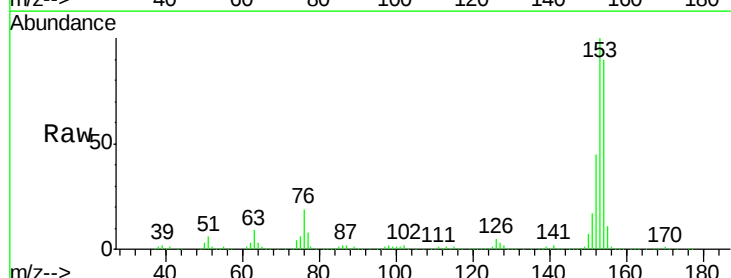
RT: 9.79 min Scan# 674

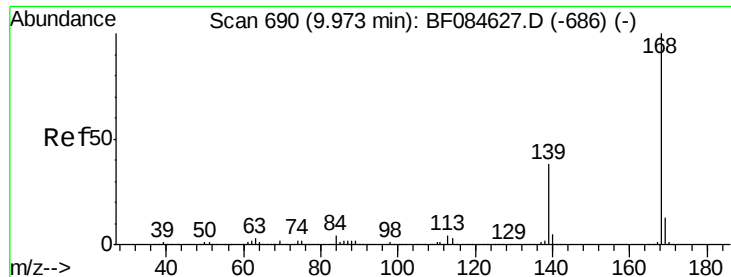
Delta R.T. -0.01 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Tgt Ion:	154	Resp:	324706
Ion Ratio	Lower	Upper	
154	100		
153	111.5	91.5	137.3
152	50.7	43.0	64.6





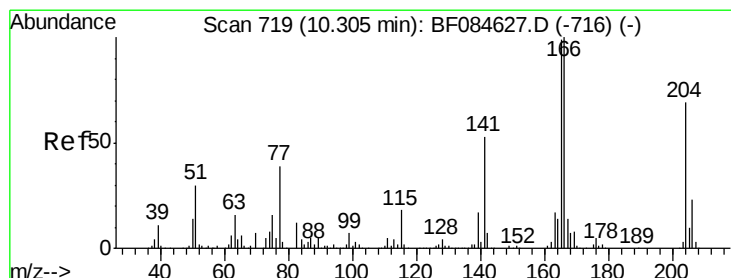
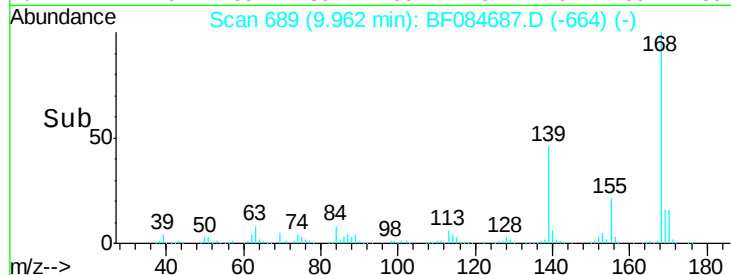
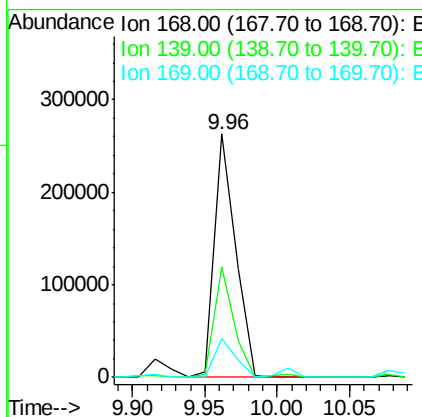
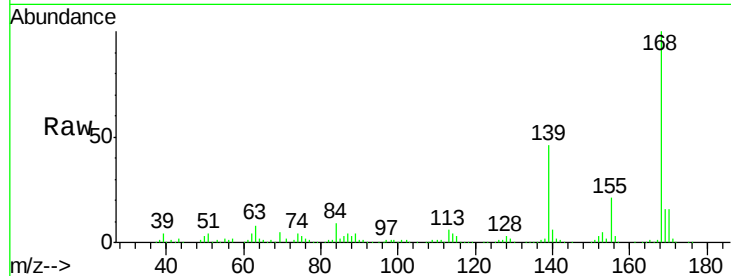
#54
Dibenzofuran
Concen: 10.65 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.01 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)

Tot Ion	Ratio	Resp	Lower	Upper
168	100	267321		
139	45.6	30.5	45.7	
169	15.7	10.4	15.6	

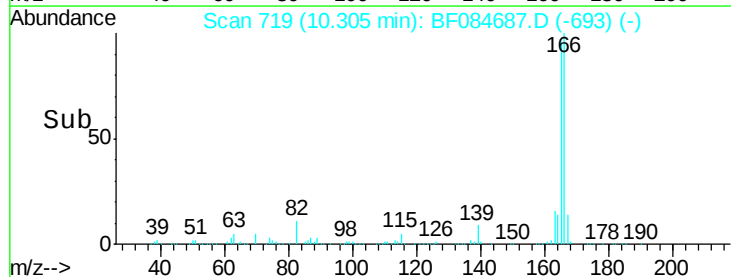
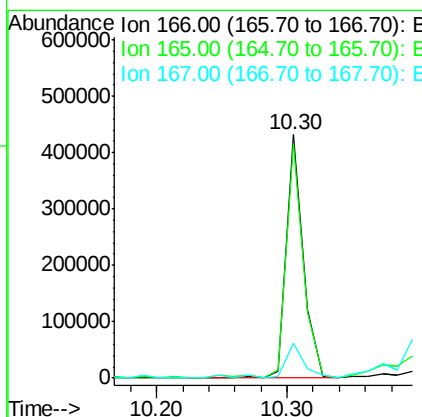
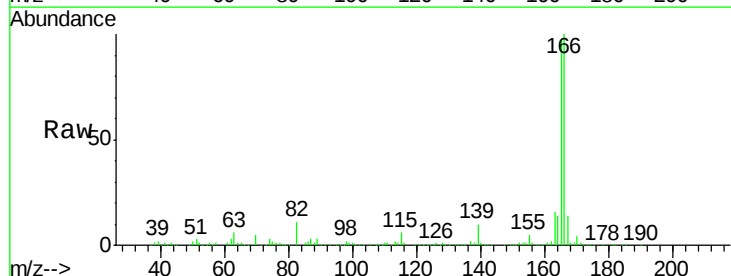
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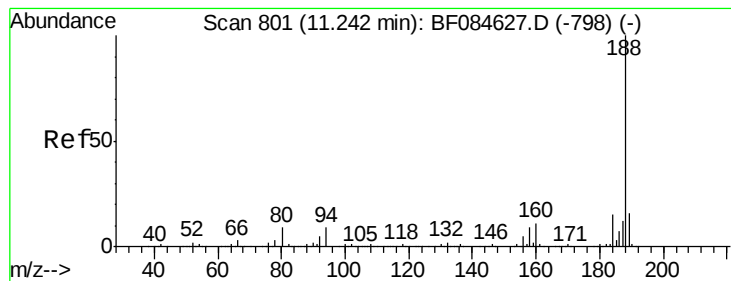
mohammad
2/1/2016 2:26:34 PM



#57
Fluorene
Concen: 18.63 ng
RT: 10.30 min Scan# 719
Delta R.T. -0.00 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	396535		
165	96.6	79.1	118.7	
167	14.5	10.4	15.6	





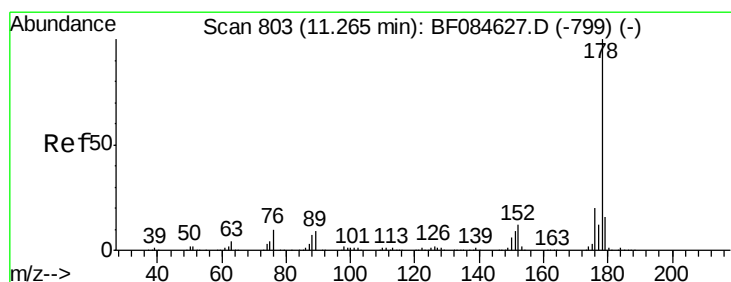
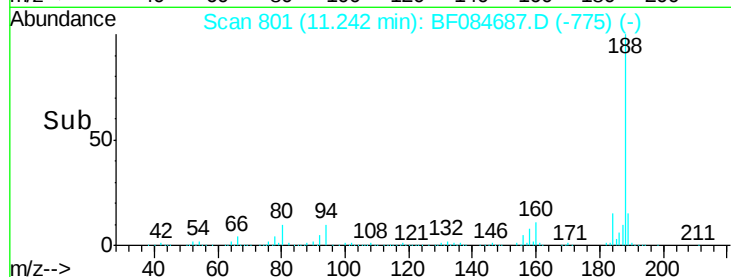
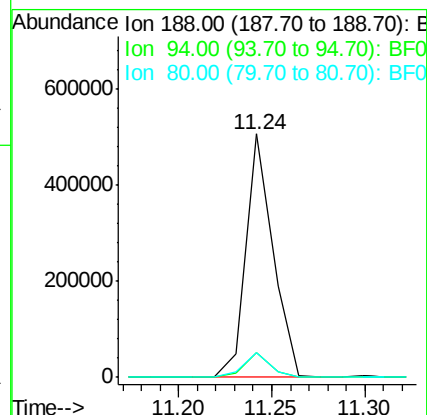
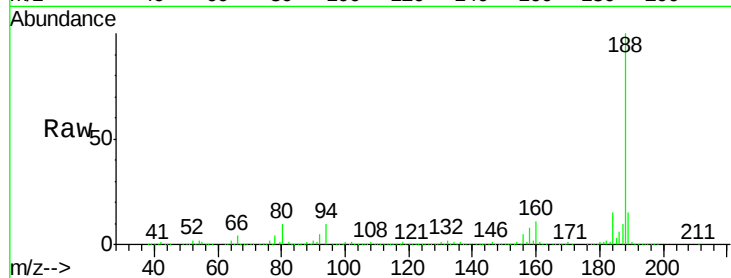
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.24 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.2	9.0	13.4
80	10.3	9.6	14.4

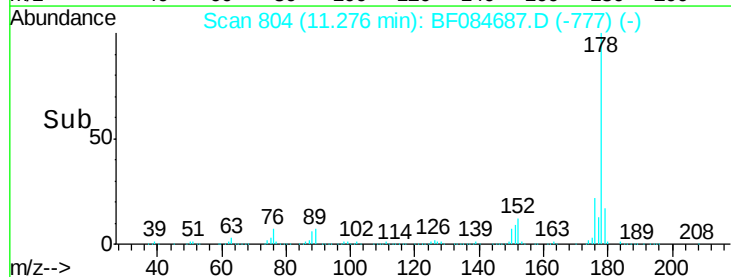
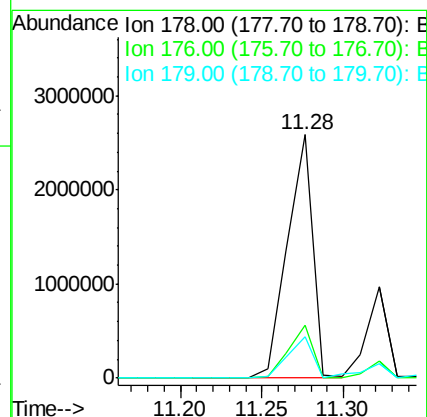
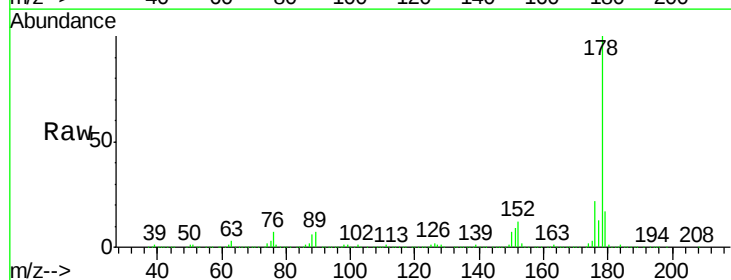
Manual Integrations
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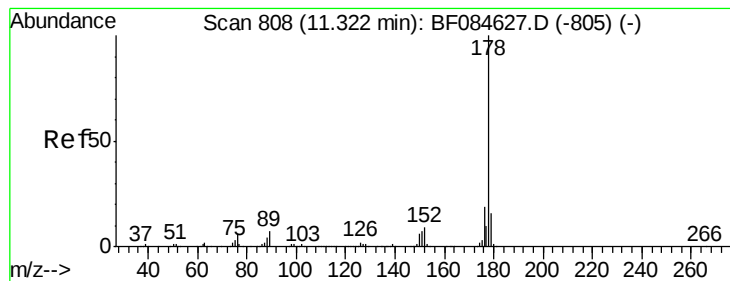
mohammad
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#70
Phenanthrene
Concen: 97.99 ng
RT: 11.28 min Scan# 804
Delta R.T. 0.01 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	21.7	15.3	22.9
179	17.0	12.0	18.0





#71

Anthracene

Concen: 30.70 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.00 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Instrument :

BNA_F

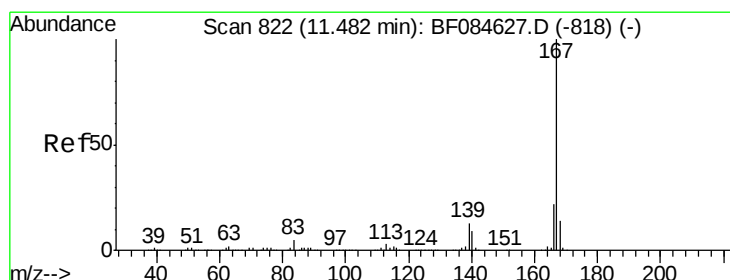
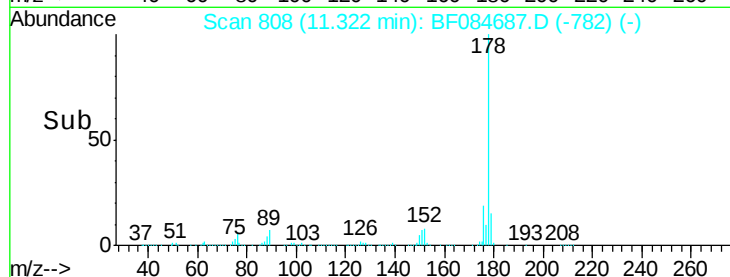
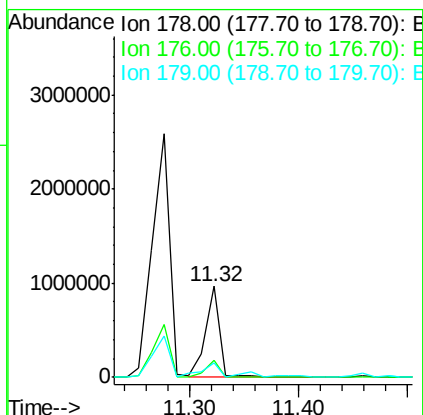
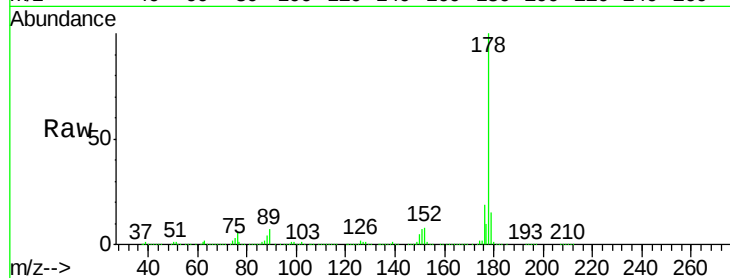
ClientSampleId :

SUP-B013(16-18)

Tot Ion:	178	Resp:	890946
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.4	23.0
179	15.3	12.5	18.7

Manual Integrations
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#72

Carbazole

Concen: 11.08 ng

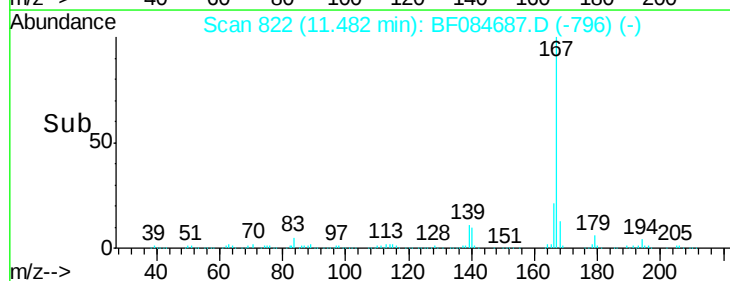
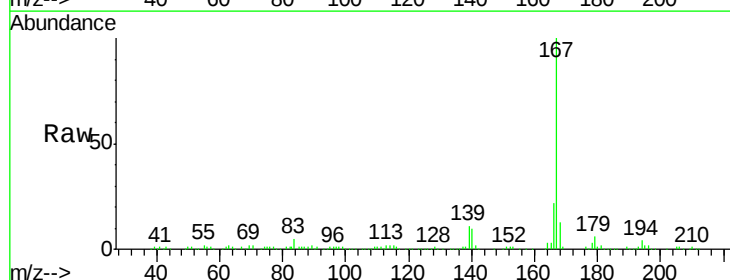
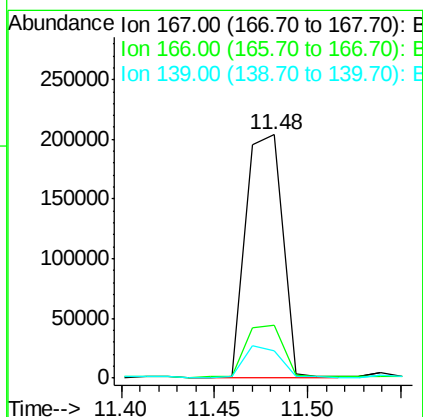
RT: 11.48 min Scan# 822

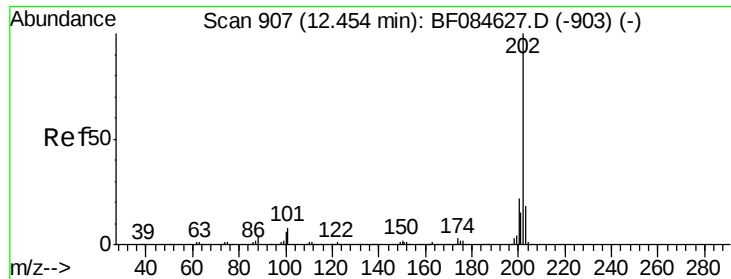
Delta R.T. -0.00 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Tgt Ion:	167	Resp:	277204
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.6	26.4
139	11.0	11.8	17.8#





#74

Fluoranthene

Concen: 67.54 ng

RT: 12.45 min Scan# 907

Delta R.T. -0.00 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Instrument :

BNA_F

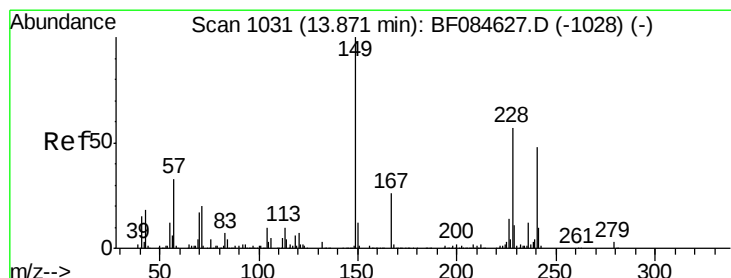
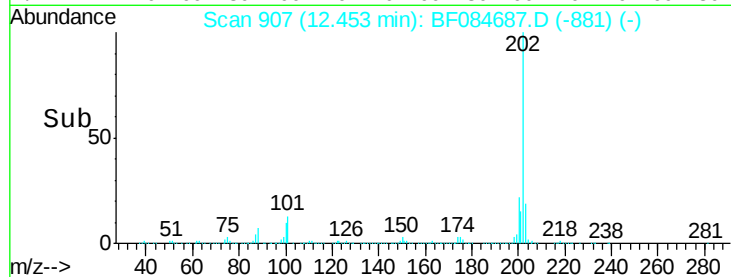
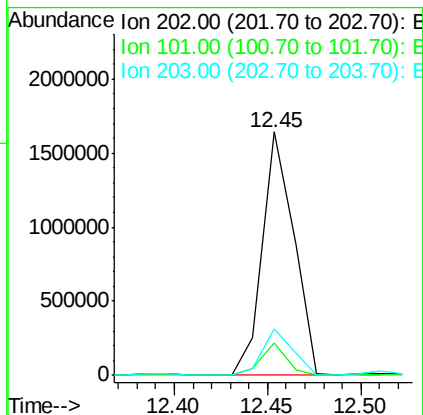
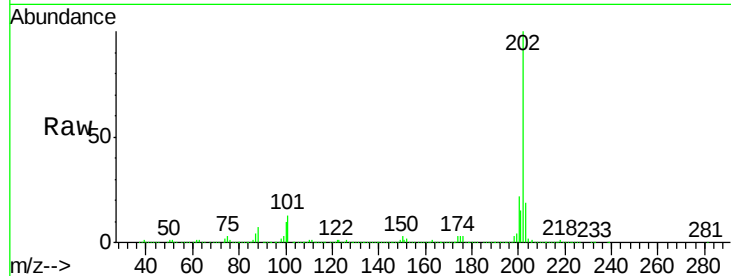
ClientSampleId :

SUP-B013(16-18)

Tot Ion:	202	Resp:	1905636
Ion Ratio		Lower	Upper
202	100		
101	13.1	0.0	32.8
203	18.9	0.0	37.9

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#75

Chrysene-d12

Concen: 20.00 ng

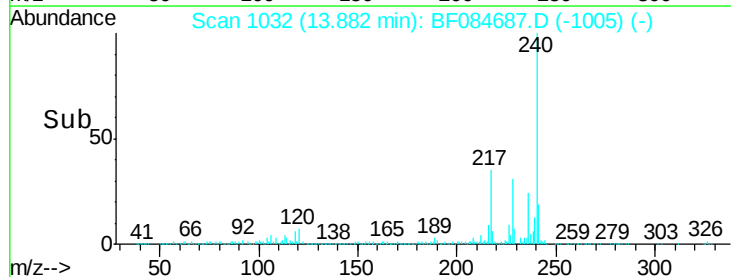
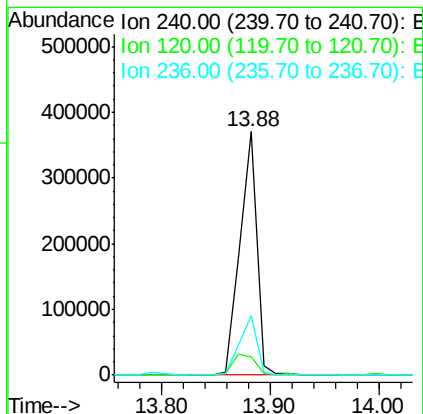
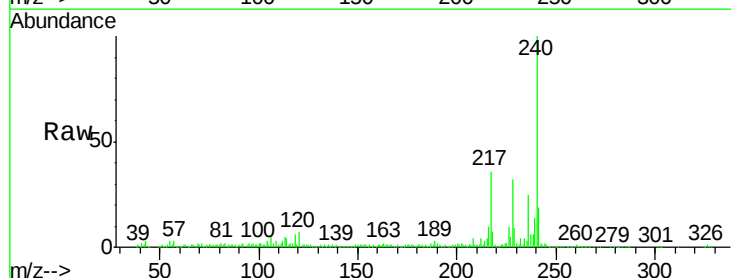
RT: 13.88 min Scan# 1032

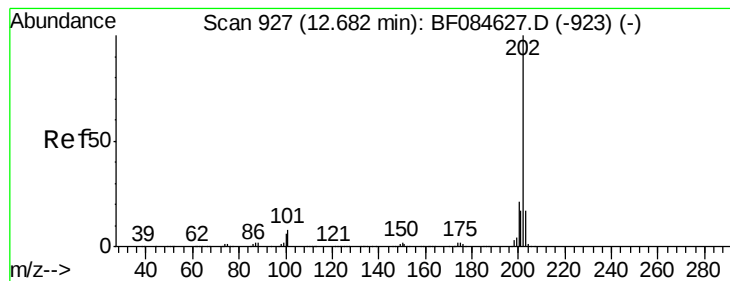
Delta R.T. 0.01 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Tgt Ion:	240	Resp:	391203
Ion Ratio		Lower	Upper
240	100		
120	7.5	9.5	14.3#
236	24.6	20.6	31.0





#77

Pvrene

Concen: 55.74 ng

RT: 12.68 min Scan# 927

Delta R.T. -0.00 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Instrument :

BNA_F

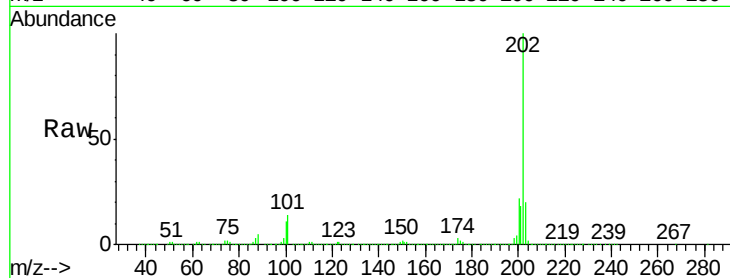
ClientSampleId :

SUP-B013(16-18)

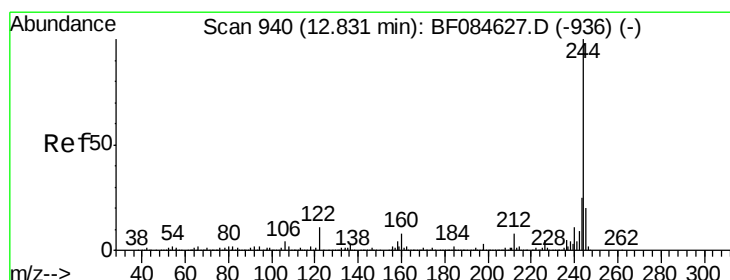
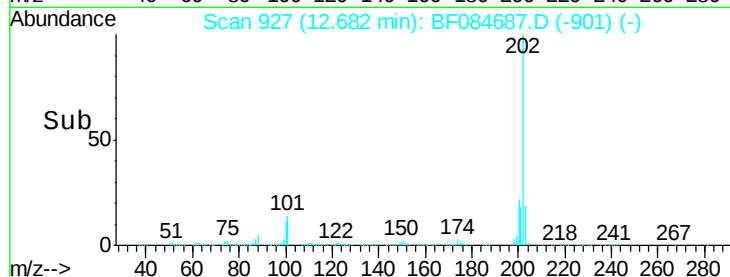
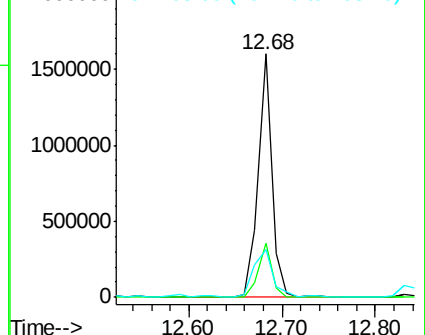
Tot Ion:	202	Resp:	1644676
Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.2	25.8
203	19.6	14.3	21.5

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 13.00 ng

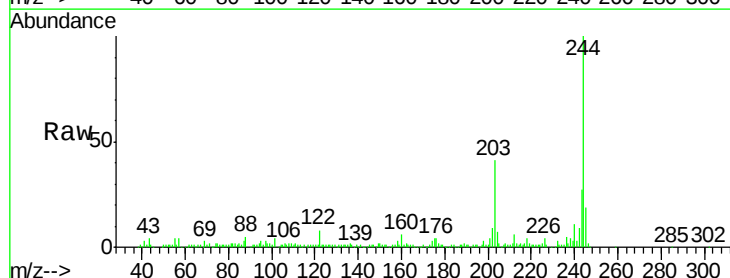
RT: 12.83 min Scan# 940

Delta R.T. -0.00 min

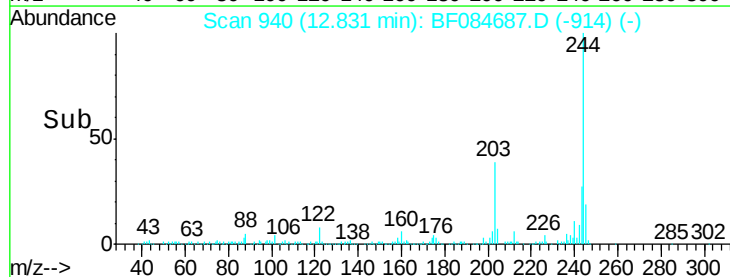
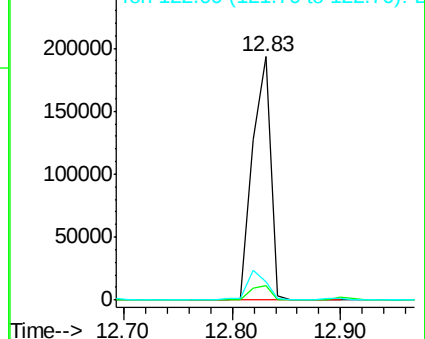
Lab File: BF084687.D

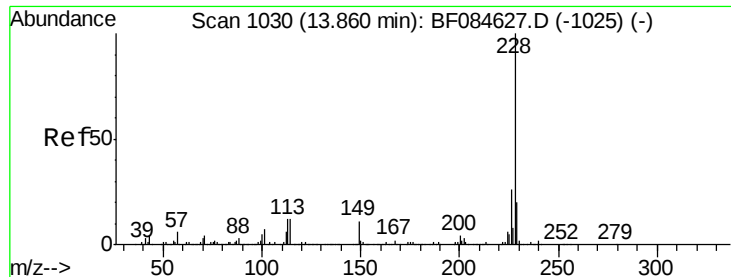
Acq: 30 Jan 2016 15:45

Tgt Ion:	244	Resp:	225133
Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.7	8.5
122	7.7	7.4	11.0



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





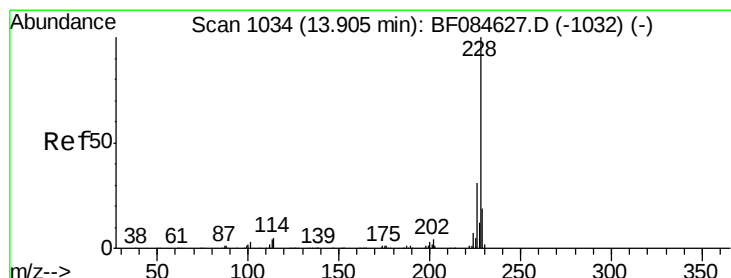
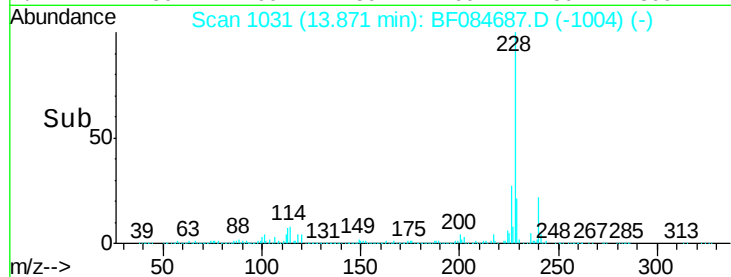
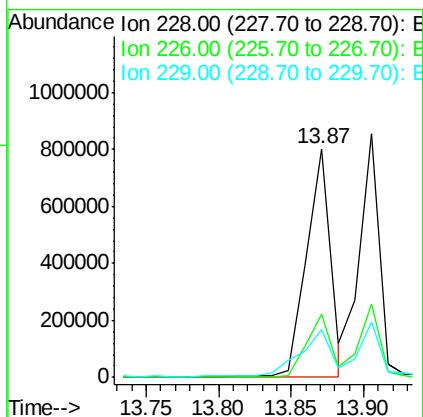
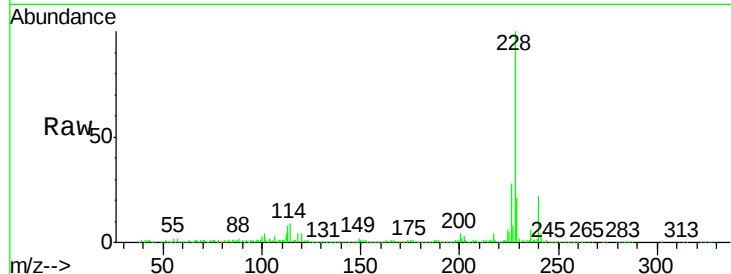
#80
Benzo(a)anthracene
Concen: 37.71 ng
RT: 13.87 min Scan# 1031
Delta R.T. 0.01 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.8	32.6
229	20.9	15.8	23.8

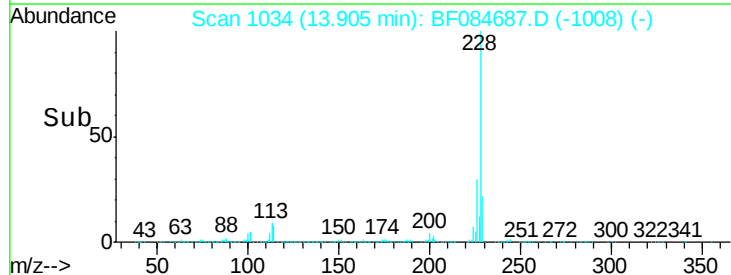
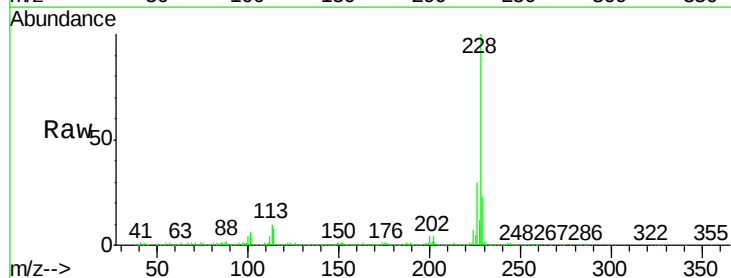
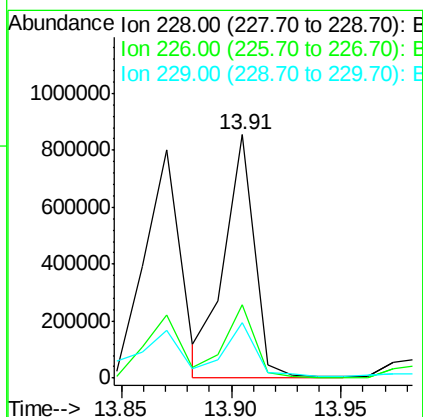
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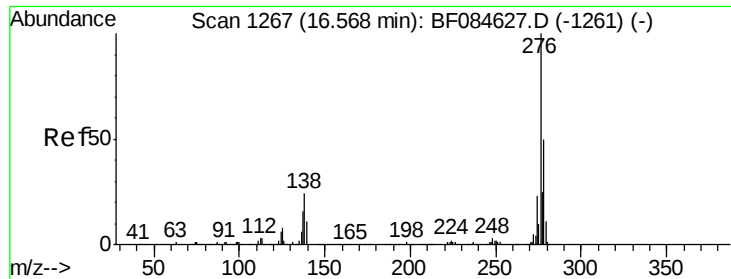
mohammad
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#82
Chrysene
Concen: 33.96 ng m
RT: 13.91 min Scan# 1034
Delta R.T. -0.00 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.3	36.5
229	22.7	16.1	24.1





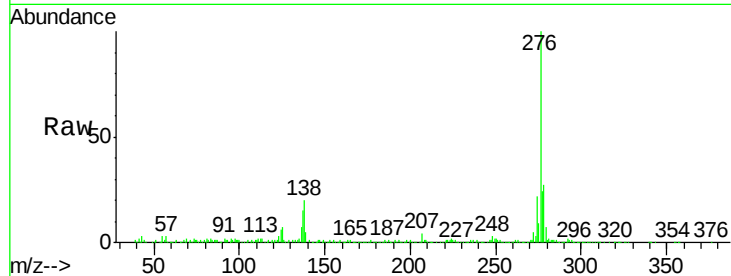
#85
Indeno(1,2,3-cd)pyrene
Concen: 19.23 ng
RT: 16.58 min Scan# 1268
Delta R.T. 0.01 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)

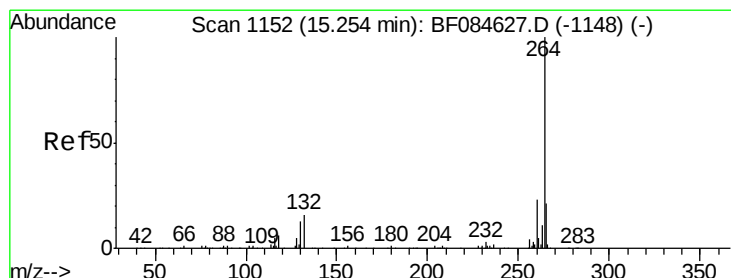
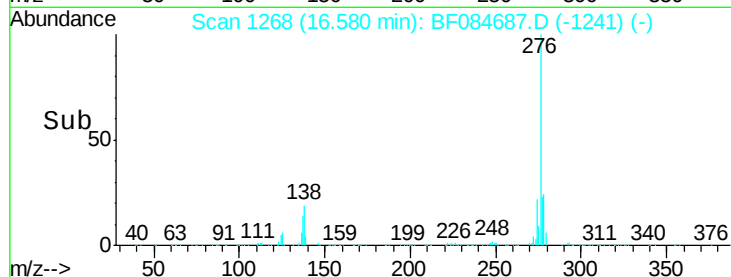
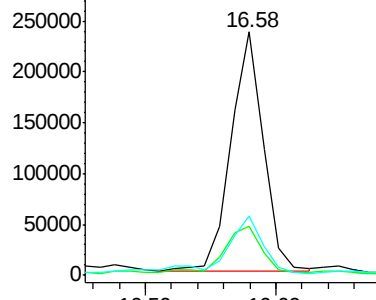
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.8	20.6	30.8
277	28.0	20.1	30.1

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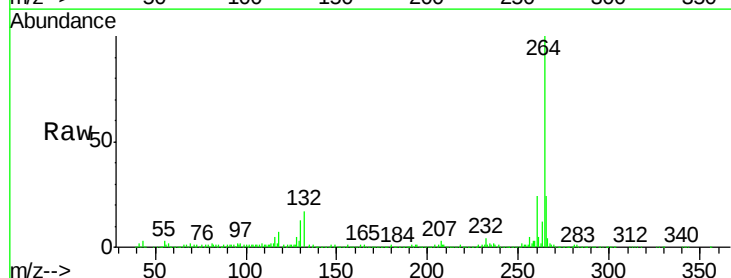


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

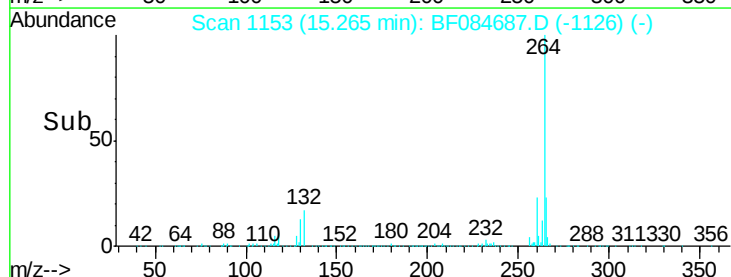
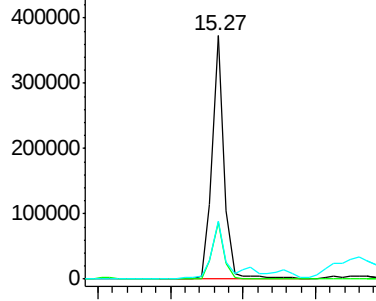


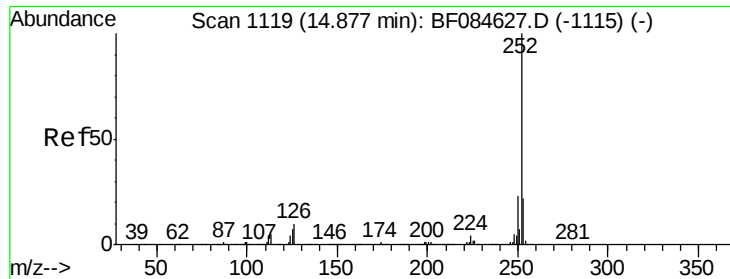
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.27 min Scan# 1153
Delta R.T. 0.01 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.4	29.2
265	23.6	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: 37.50 ng m

RT: 14.89 min Scan# 1120

Delta R.T. 0.01 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Instrument :

BNA_F

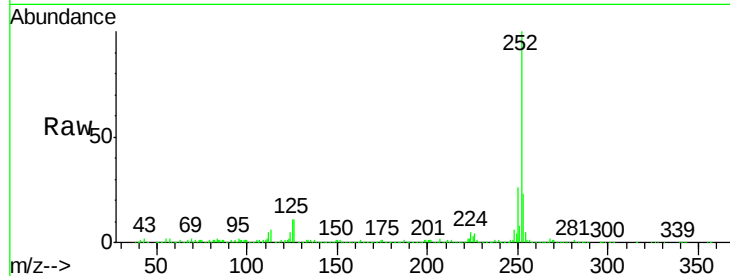
ClientSampleId :

SUP-B013(16-18)

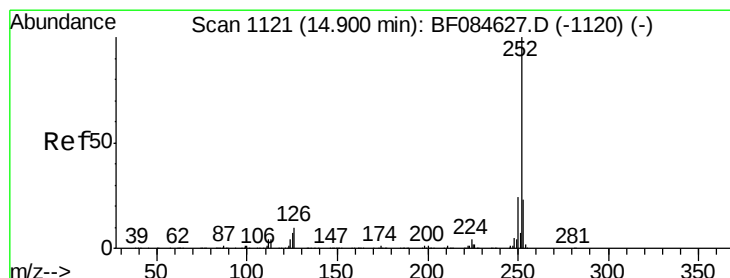
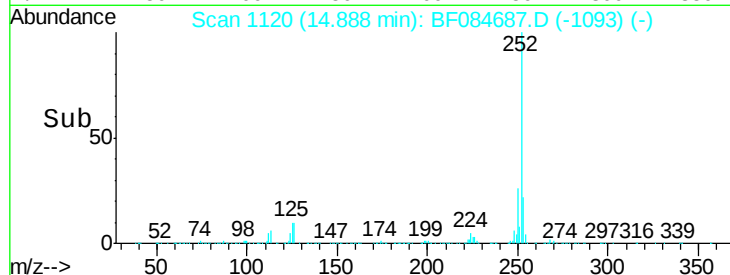
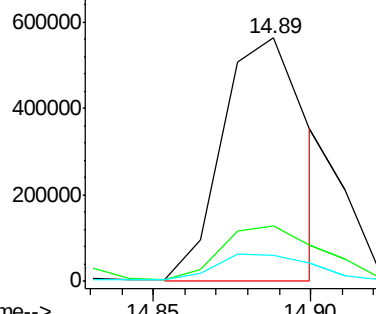
Tot Ion:	252	Resp:	1040244
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.3	25.9
125	10.5	6.5	9.7#

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



#88

Benzo(k)fluoranthene

Concen: 7.21 ng m

RT: 14.90 min Scan# 1121

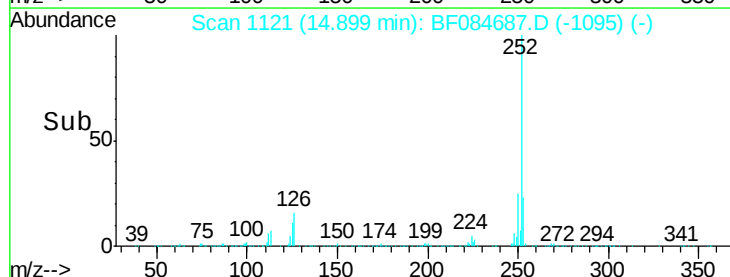
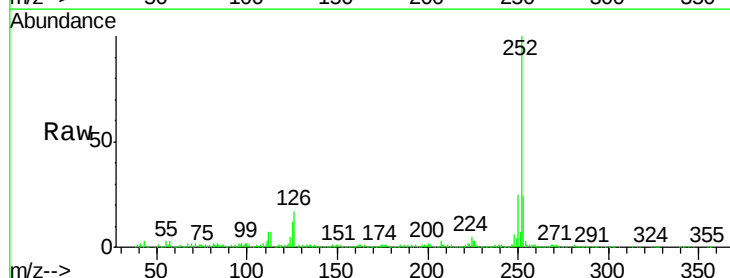
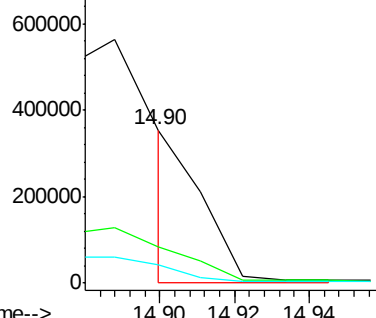
Delta R.T. -0.00 min

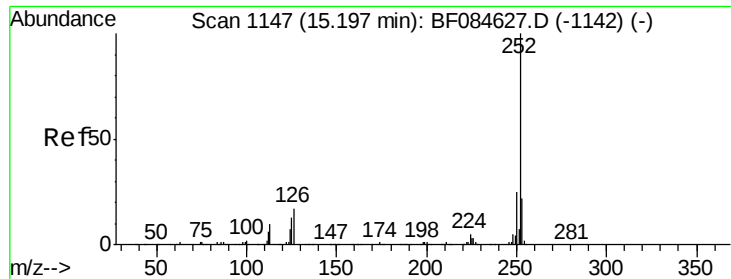
Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Tgt Ion:	252	Resp:	165091
Ion Ratio	Lower	Upper	
252	100		
253	23.6	18.1	27.1
125	12.2	9.0	13.6

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





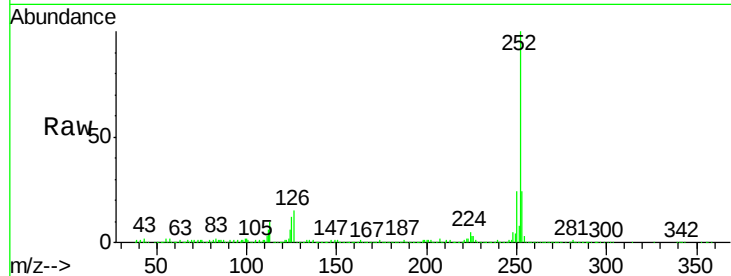
#89
Benzo(a)pyrene
Concen: 27.78 ng
RT: 15.21 min Scan# 1148
Delta R.T. 0.01 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Instrument :
BNA_F
ClientSampleId :
SUP-B013(16-18)

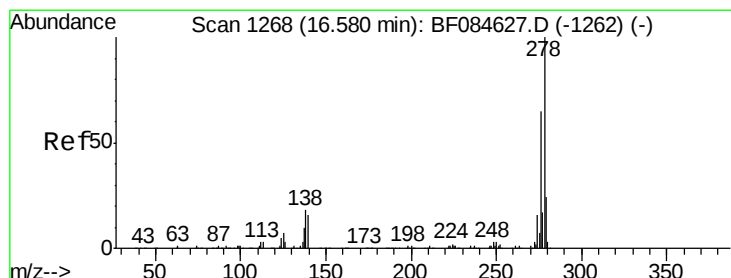
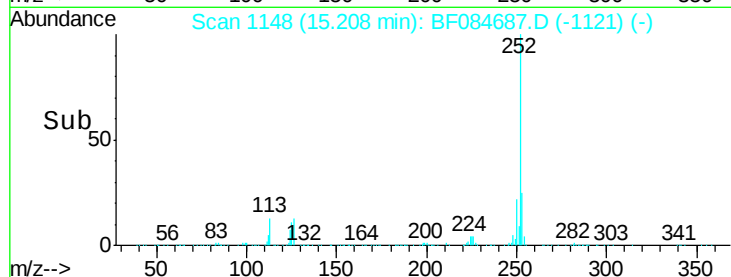
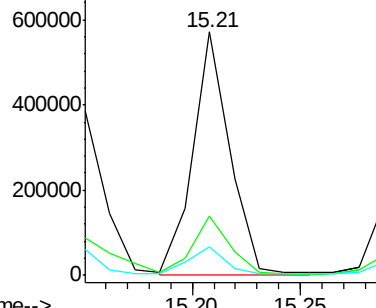
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.3	25.9
125	11.8	7.0	10.4

Manual Integrations
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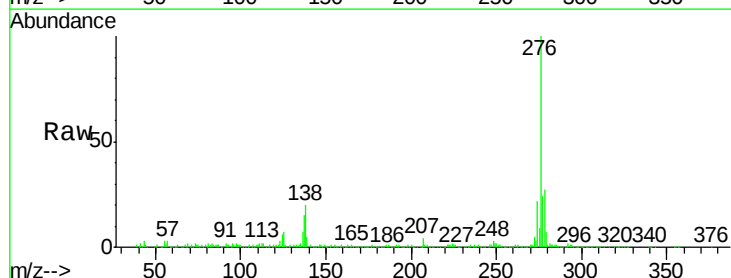


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

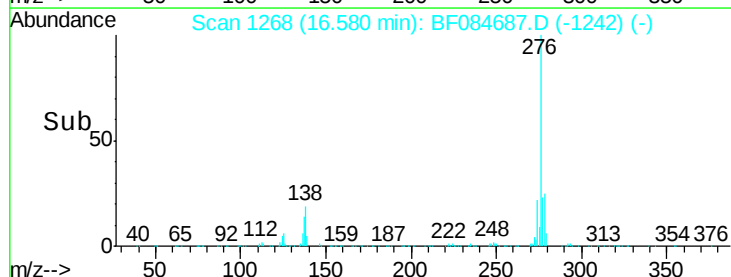
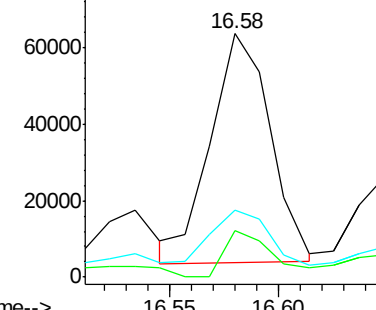


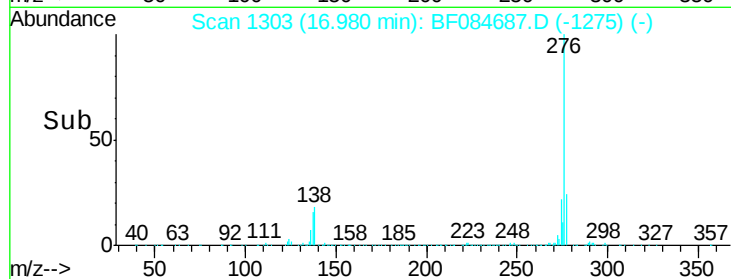
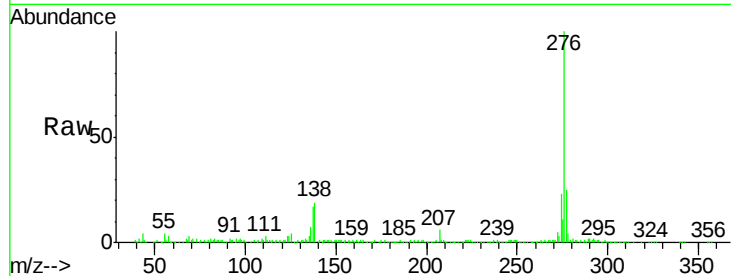
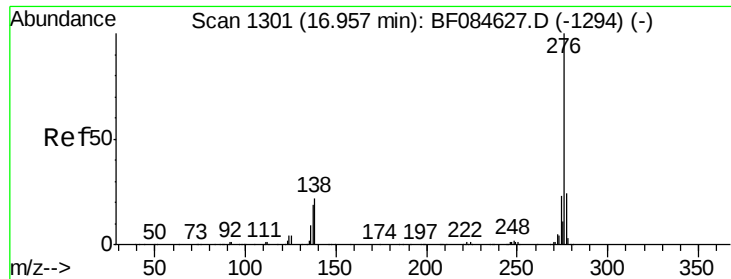
#90
Dibenzo(a,h)anthracene
Concen: 5.31 ng
RT: 16.58 min Scan# 1268
Delta R.T. -0.00 min
Lab File: BF084687.D
Acq: 30 Jan 2016 15:45

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.1	15.0	22.4
279	27.6	18.9	28.3



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 17.27 ng

RT: 16.98 min Scan# 1303

Delta R.T. 0.02 min

Lab File: BF084687.D

Acq: 30 Jan 2016 15:45

Tot Ion:	276	Resp:	377128
Ion Ratio	Lower	Upper	
276	100		
277	24.9	18.8	28.2
138	18.5	17.8	26.6

Instrument :

BNA_F

ClientSampleId :

SUP-B013(16-18)

Manual Integrations
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