

Data Path : Z:\HPCHEM1\BNA F\DATA\BF043017\
 Data File : BF094740.D
 Acq On : 1 May 2017 4:13
 Operator : SJ/MA
 Sample : I2902-02
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW-2B

Manual Integrations
 APPROVED

mohammad
 5/1/2017 7:51:07 PM

Quant Time: May 01 05:30:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	110298	20.00	ng	0.00
21) Naphthalene-d8	7.27	136	414583	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	200340	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	321919	20.00	ng	0.00
75) Chrysene-d12	14.47	240	217152	20.00	ng	0.00
86) Perylene-d12	16.09	264	207239	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	362966	54.60	ng	0.02
7) Phenol-d6	5.40	99	288554	36.82	ng	0.00
23) Nitrobenzene-d5	6.42	82	636680	94.83	ng	0.00
41) 2,4,6-Tribromophenol	10.38	330	196355	125.30	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	1227732	90.17	ng	0.00
78) Terphenyl-d14	13.19	244	838712	103.24	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.32	128	7854853	394.11	ng	98
35) Caprolactam	7.85	113	327864	181.83	ng	88
37) 2-Methylnaphthalene	8.14	142	1768062	129.66	ng	99
45) 1,1'-Biphenyl	8.70	154	882753	53.93	ng	98
48) Acenaphthylene	9.23	152	2375777	117.10	ng	99
51) Acenaphthene	9.44	154	483405	39.78	ng	98
54) Dibenzofuran	9.65	168	90704	5.14	ng	# 97
57) Fluorene	10.08	166	855990	62.24	ng	99
70) Phenanthrene	11.27	178	2534102	139.79	ng	100
71) Anthracene	11.31	178	530583	28.30	ng	98
74) Fluoranthene	12.71	202	729407	38.82	ng	99
77) Pvrene	12.99	202	937746	61.81	ng	99
80) Benzo(a)anthracene	14.46	228	127670m	10.12	ng	
82) Chrysene	14.50	228	109155	9.46	ng	99
85) Indeno(1,2,3-cd)pyrene	17.38	276	23980	2.18	ng	96
87) Benzo(b)fluoranthene	15.70	252	73362m	5.79	ng	
89) Benzo(a)pyrene	16.04	252	68001	5.77	ng	97
91) Benzo(g,h,i)perylene	17.76	276	26821	2.69	ng	99

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

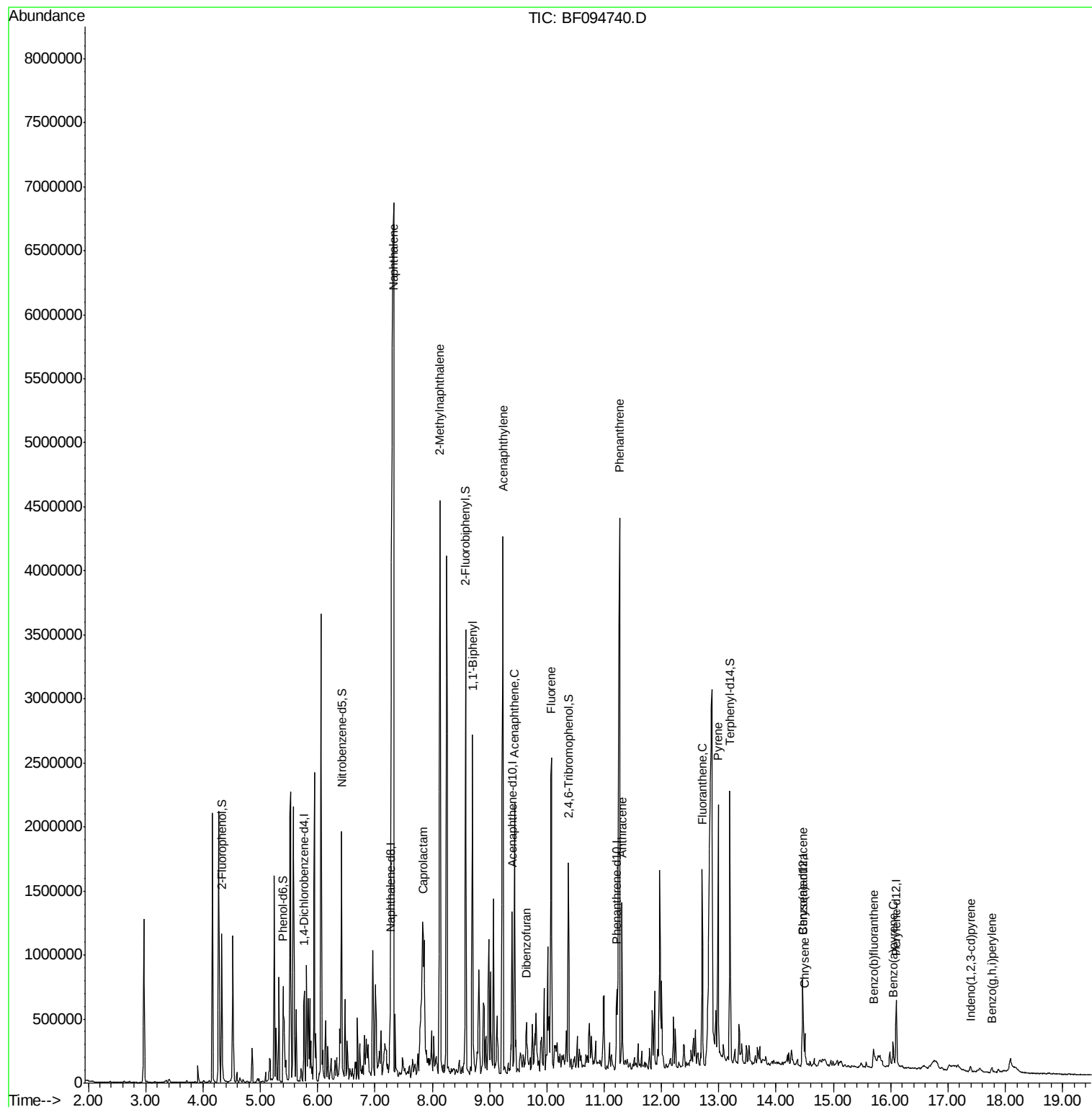
Data Path : Z:\HPCHEM1\BNA F\DATA\BF043017\
Data File : BF094740.D
Acq On : 1 May 2017 4:13
Operator : SJ/MA
Sample : I2902-02
Misc :
ALS Vial : 33 Sample Multiplier: 1

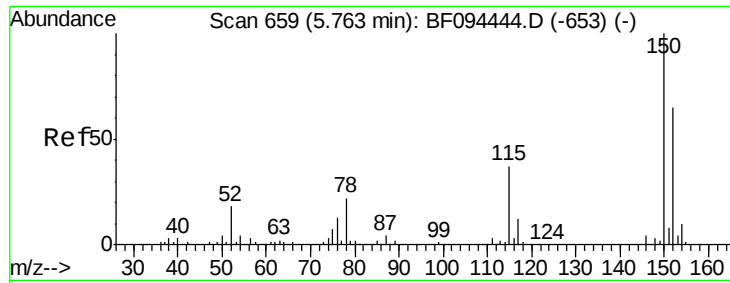
Instrument :
BNA_F
ClientSampleId :
MW-2B

Manual Integrations
APPROVED

mohammad
5/1/2017 7:51:07 PM

Quant Time: May 01 05:30:47 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 17 14:59:23 2017
Response via : Initial Calibration





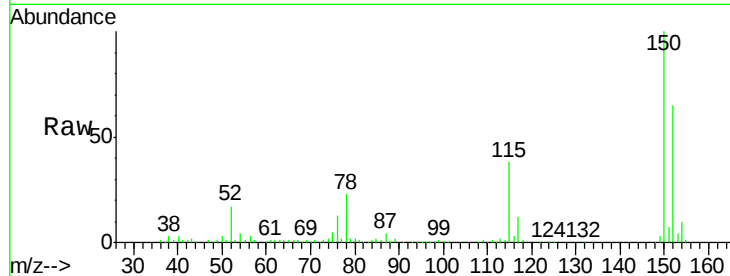
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.77 min Scan# 651
 Delta R.T. 0.00 min
 Lab File: BF094740.D
 Acq: 1 May 2017 4:13

Instrument :
 BNA_F
 ClientSampled :
 MW-2B

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	126.2	189.2
115	58.9	52.2	78.2

Manual Integrations
 APPROVED

mohammad
 5/1/2017 7:51:07 PM

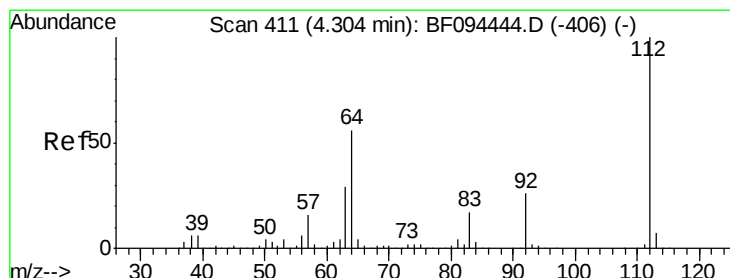
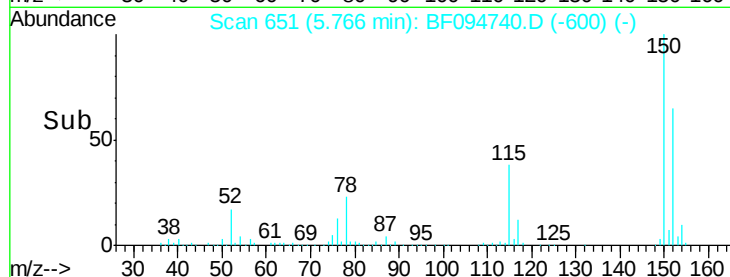
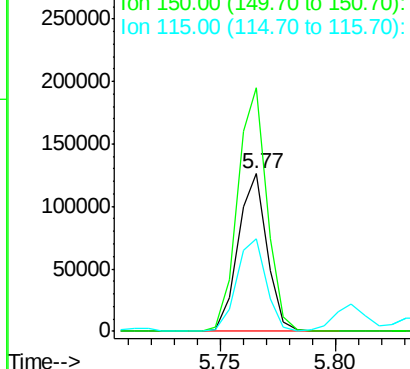


Abundance

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: 54.60 ng
 RT: 4.32 min Scan# 406
 Delta R.T. 0.02 min
 Lab File: BF094740.D
 Acq: 1 May 2017 4:13

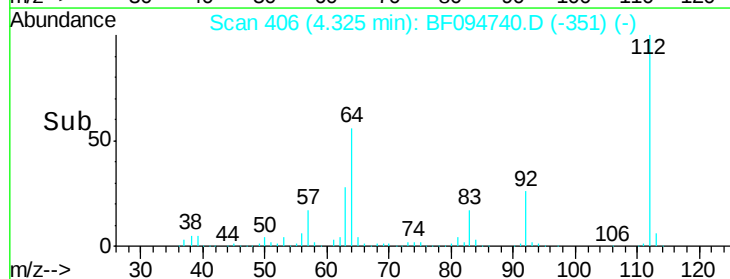
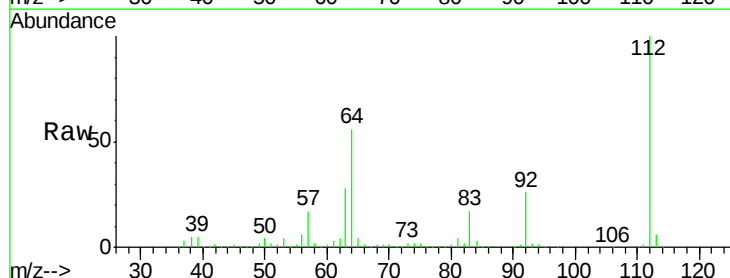
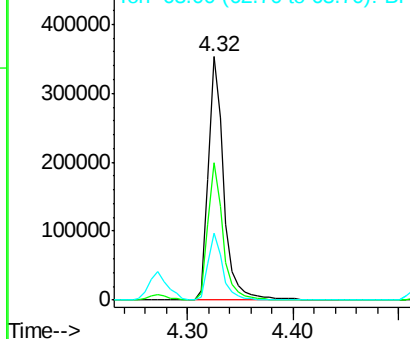
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.4	46.0	69.0
63	27.6	23.4	35.0

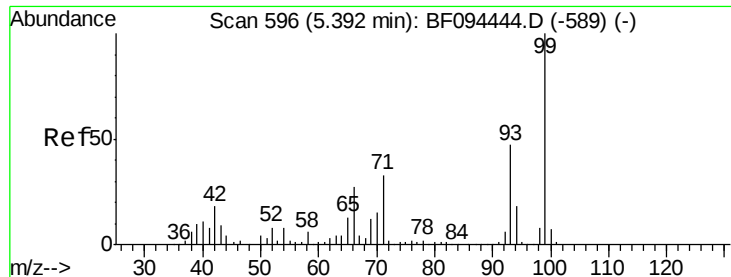
Abundance

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: 36.82 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094740.D

Acq: 1 May 2017 4:13

Instrument :

BNA_F

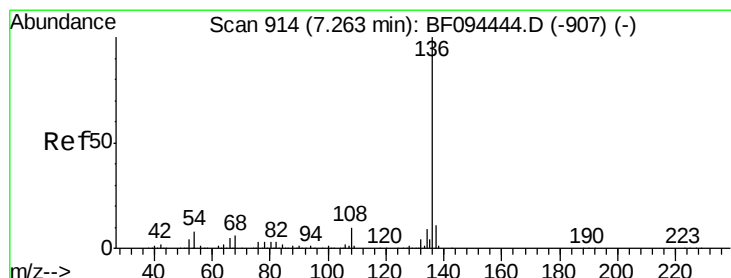
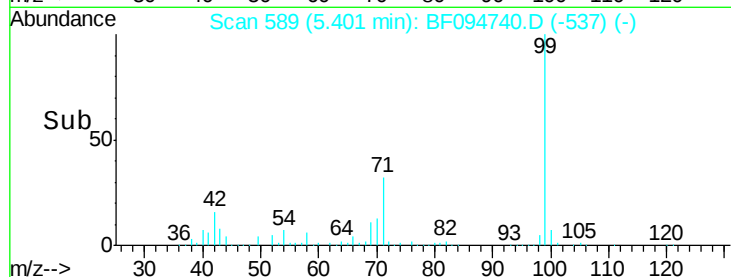
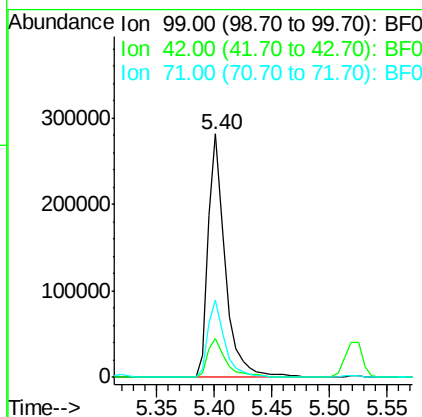
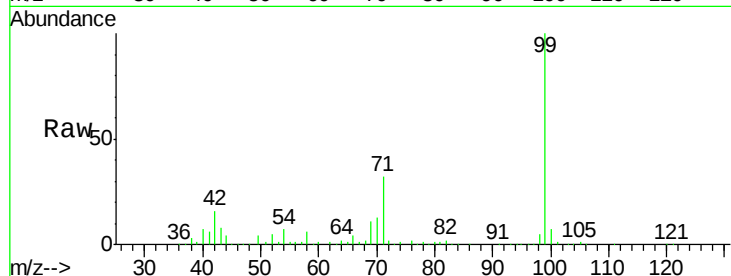
ClientSampled :

MW-2B

Tot Ion:	99	Resp:	288554
Ion Ratio	Lower	Upper	
99	100		
42	15.9	13.5	20.3
71	31.8	24.5	36.7

Manual Integrations
APPROVED

mohammad
5/1/2017 7:51:07 PM



#21

Naphthalene-d8

Concen: 20.00 ng

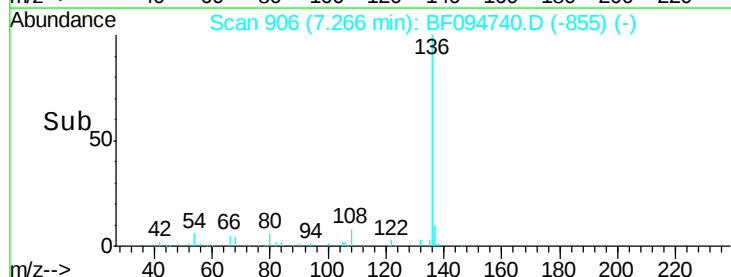
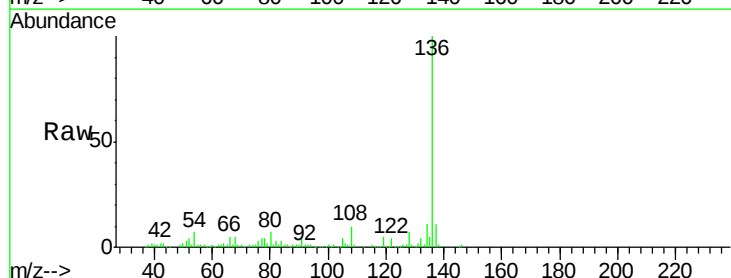
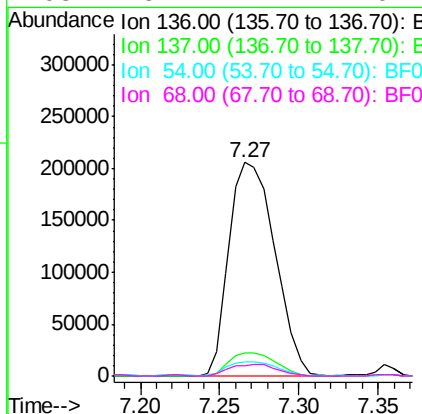
RT: 7.27 min Scan# 906

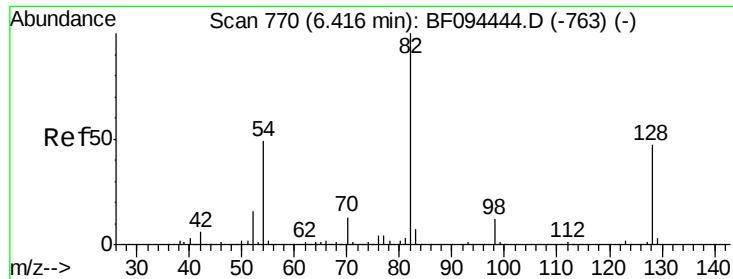
Delta R.T. 0.00 min

Lab File: BF094740.D

Acq: 1 May 2017 4:13

Tgt Ion:	136	Resp:	414583
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.5	12.7
54	6.5	4.9	7.3
68	5.1	4.1	6.1





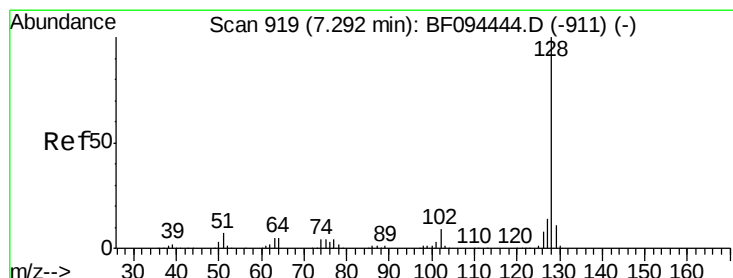
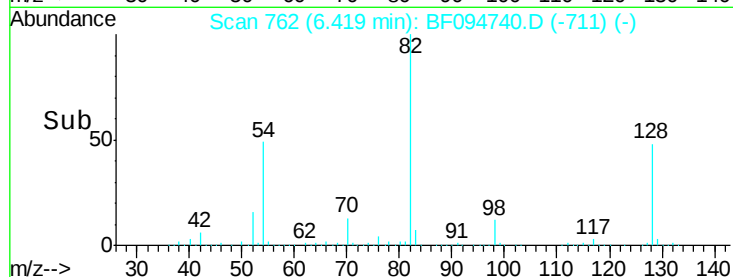
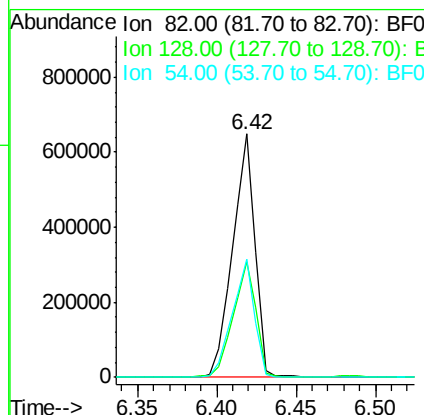
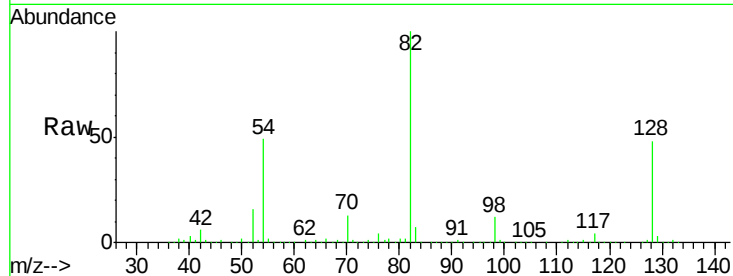
#23
Nitrobenzene-d5
Concen: 94.83 ng
RT: 6.42 min Scan# 762
Delta R.T. 0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampleId :
MW-2B

Tot Ion	82	Resp	636680
Ion Ratio	100	Lower	Upper
82	100		
128	47.7	34.0	51.0
54	48.6	42.2	63.2

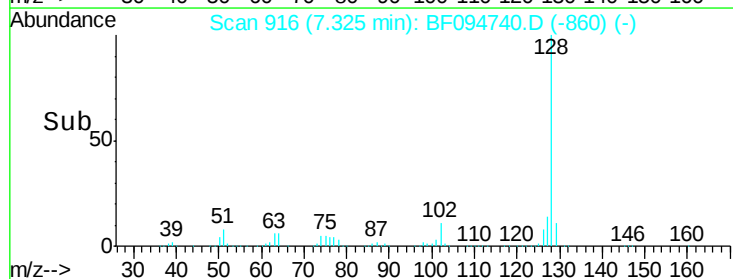
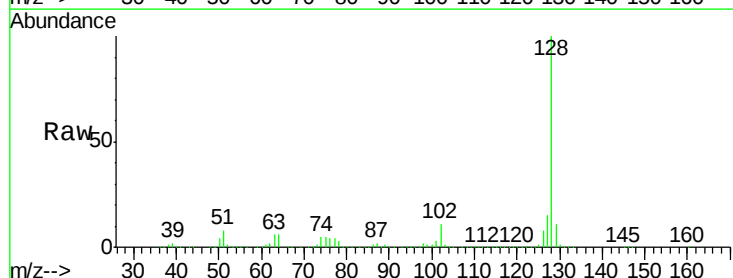
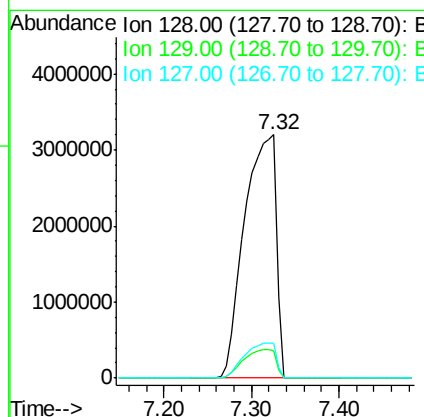
Manual Integrations
APPROVED

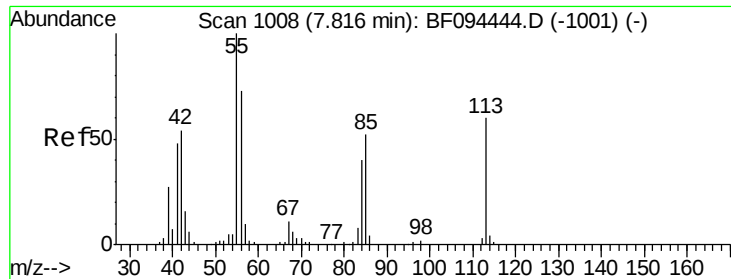
mohammad
5/1/2017 7:51:07 PM



#31
Naphthalene
Concen: 394.11 ng
RT: 7.32 min Scan# 916
Delta R.T. 0.03 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	128	Resp	7854853
Ion Ratio	100	Lower	Upper
128	100		
129	11.5	9.0	13.6
127	14.6	10.8	16.2





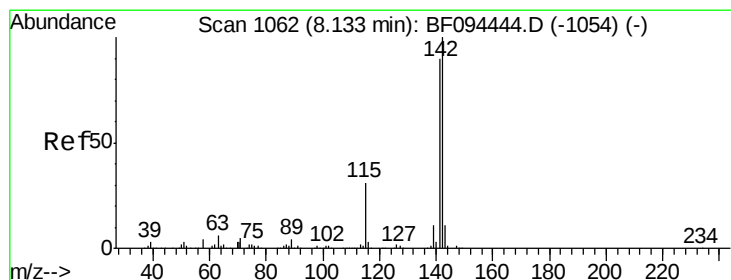
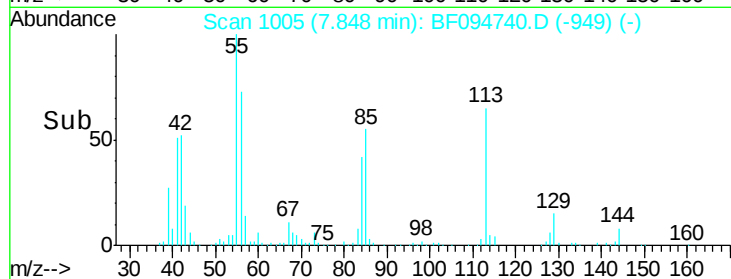
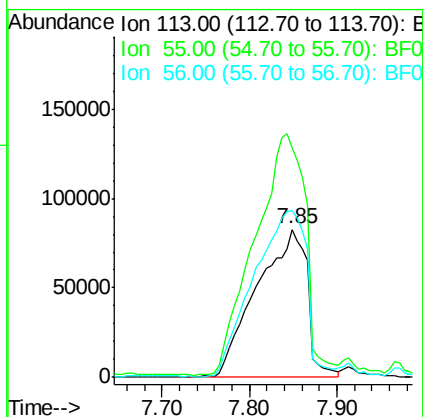
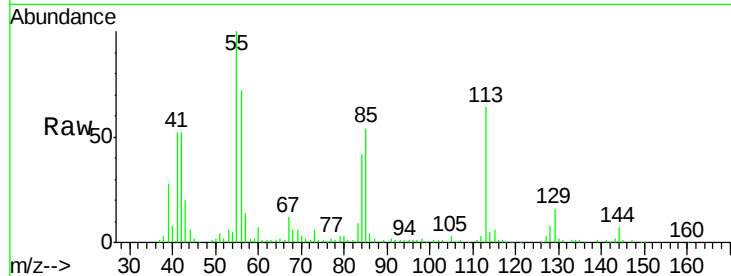
#35
 Caprolactam
 Concen: 181.83 ng
 RT: 7.85 min Scan# 1005
 Delta R.T. 0.03 min
 Lab File: BF094740.D
 Acq: 1 May 2017 4:13

Instrument :
 BNA_F
 ClientSampled :
 MW-2B

Tot Ion	Ratio	Lower	Upper
113	100		
55	155.7	150.2	190.2
56	112.8	107.8	147.8

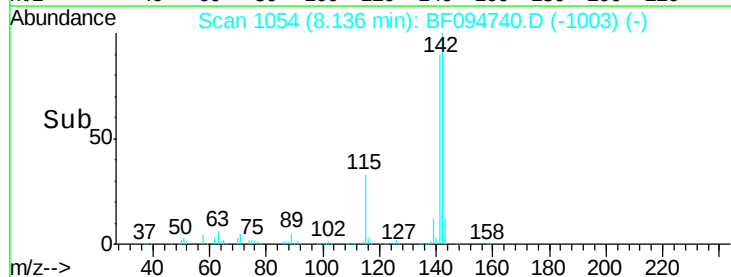
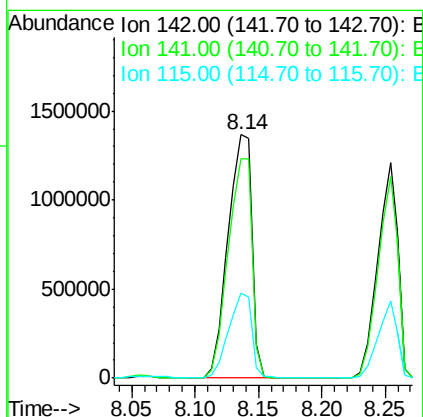
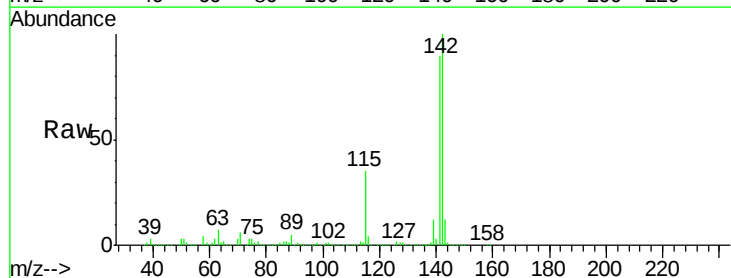
Manual Integrations
 APPROVED

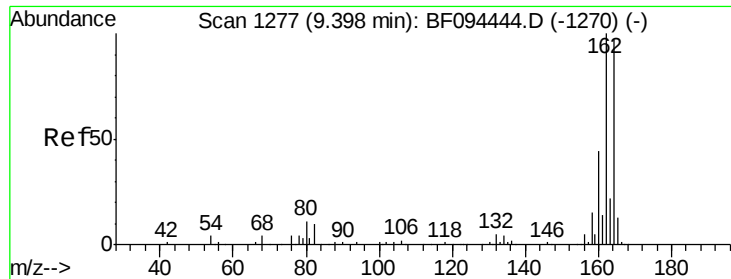
mohammad
 5/1/2017 7:51:07 PM



#37
 2-Methylnaphthalene
 Concen: 129.66 ng
 RT: 8.14 min Scan# 1054
 Delta R.T. 0.00 min
 Lab File: BF094740.D
 Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.3	106.9
115	34.7	27.1	40.7





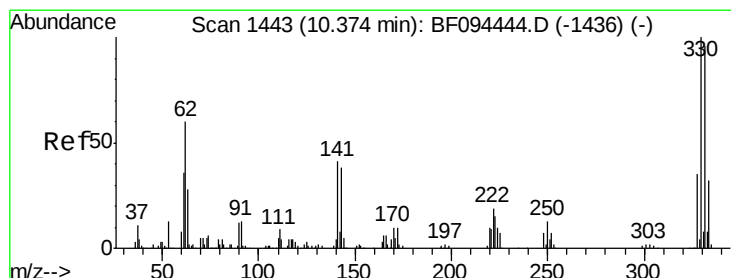
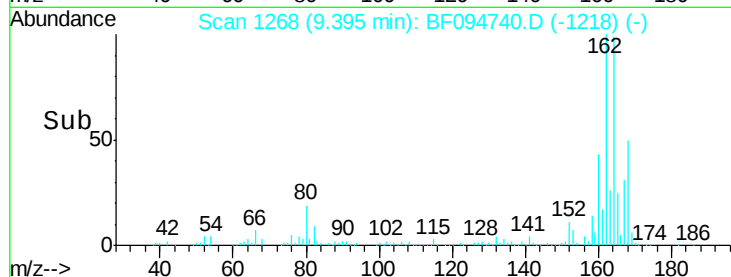
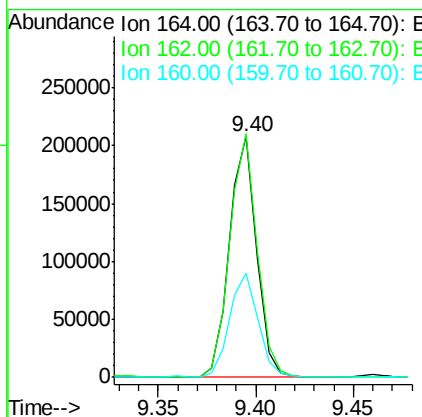
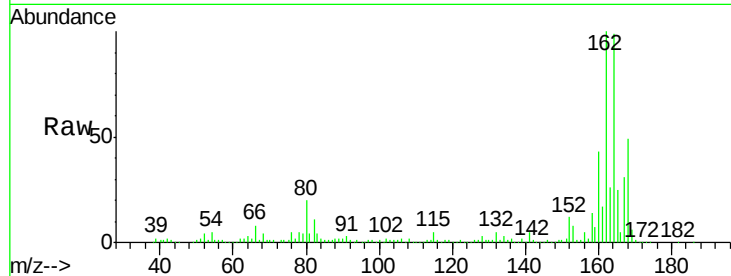
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.40 min Scan# 1268
Delta R.T. -0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampled :
MW-2B

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.2	82.6	123.8	
160	43.5	36.2	54.2	

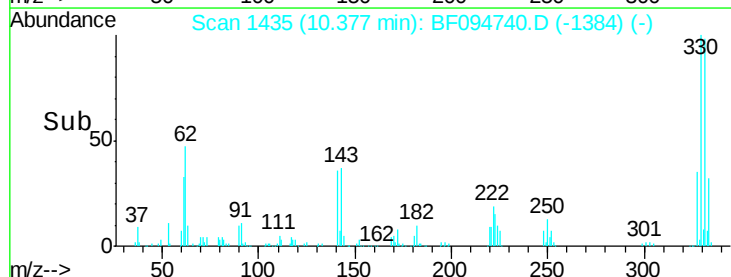
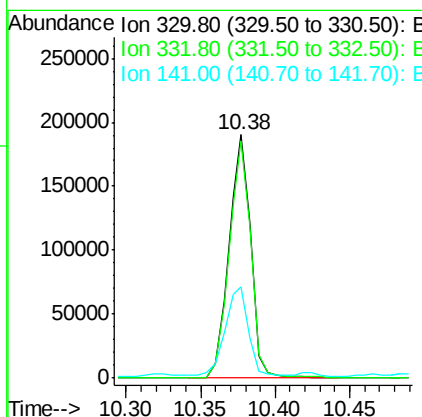
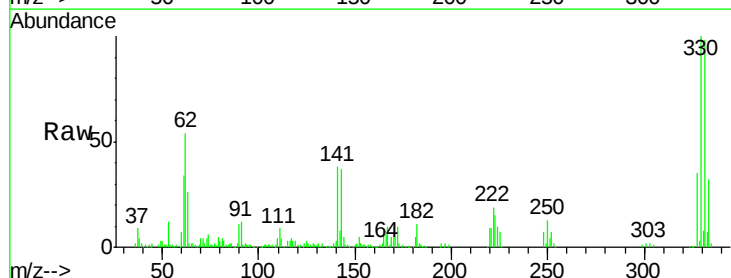
Manual Integrations
APPROVED

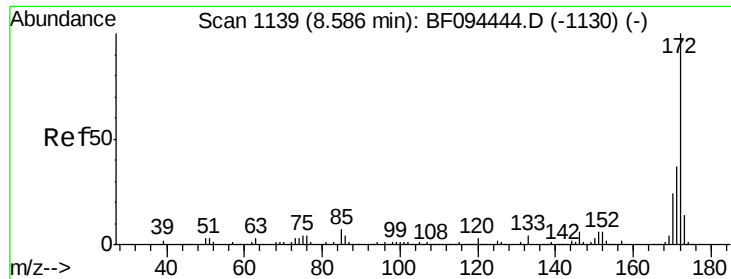
mohammad
5/1/2017 7:51:07 PM



#41
2,4,6-Tribromophenol
Concen: 125.30 ng
RT: 10.38 min Scan# 1435
Delta R.T. 0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.4	76.6	115.0	
141	39.6	31.4	47.2	





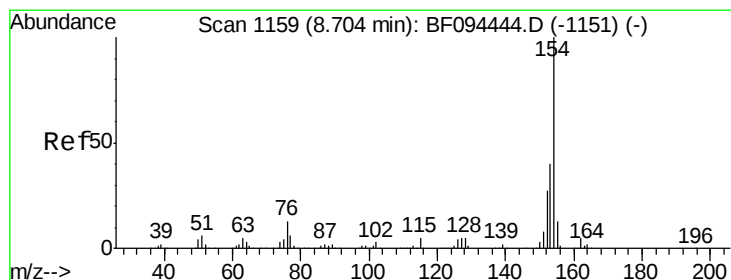
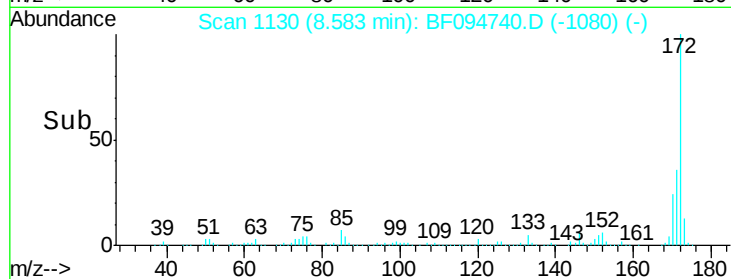
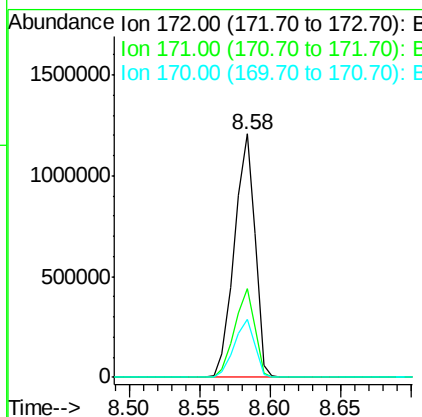
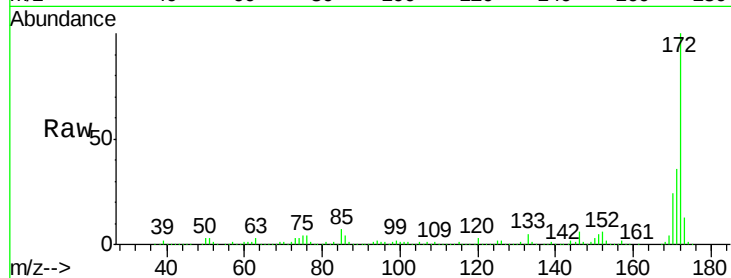
#44
2-Fluorobiphenyl
Concen: 90.17 ng
RT: 8.58 min Scan# 1130
Delta R.T. -0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampleId :
MW-2B

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.6	44.4
170	23.7	19.8	29.8

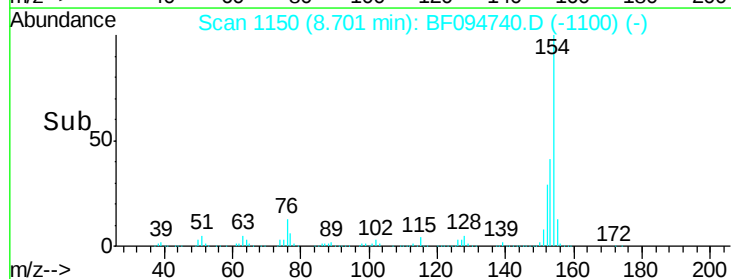
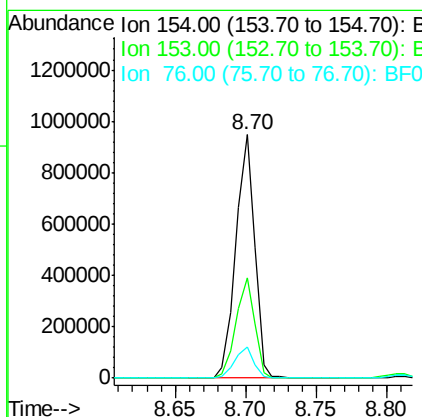
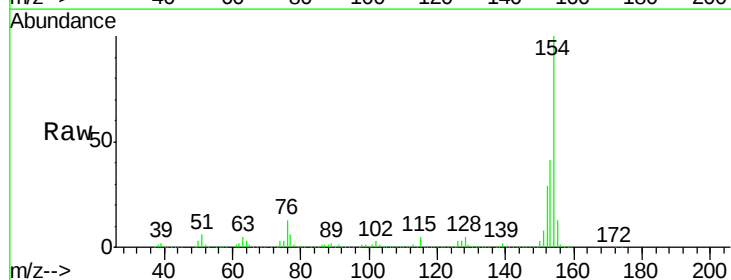
Manual Integrations
APPROVED

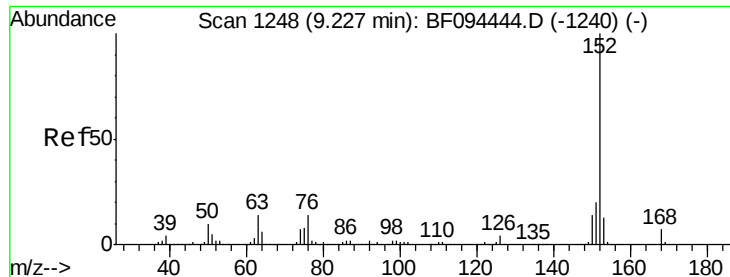
mohammad
5/1/2017 7:51:07 PM



#45
1,1'-Biphenyl
Concen: 53.93 ng
RT: 8.70 min Scan# 1150
Delta R.T. -0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.2	61.2
76	12.6	0.0	29.9





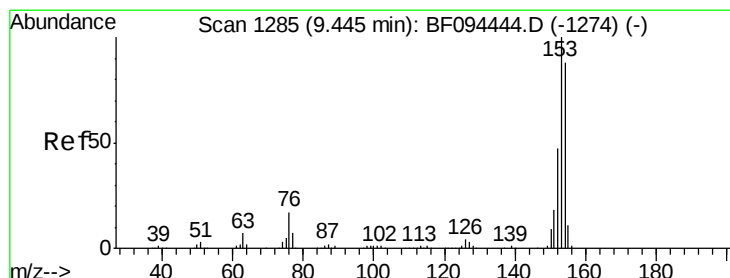
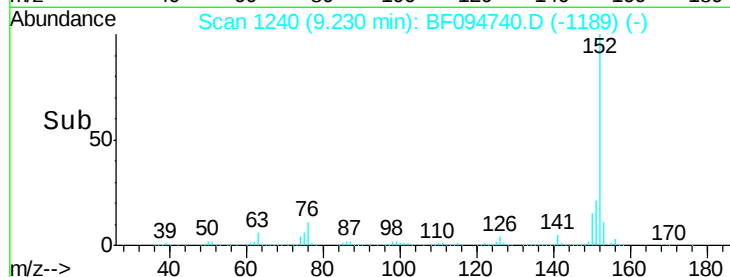
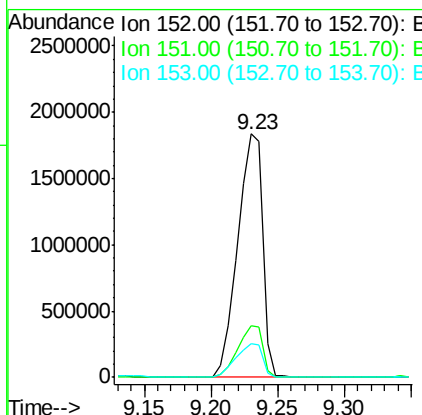
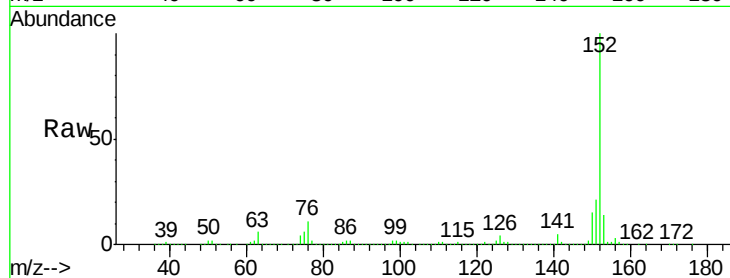
#48
Acenaphthylene
Concen: 117.10 ng
RT: 9.23 min Scan# 1240
Delta R.T. 0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampleId :
MW-2B

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.8	25.2
153	14.1	10.8	16.2

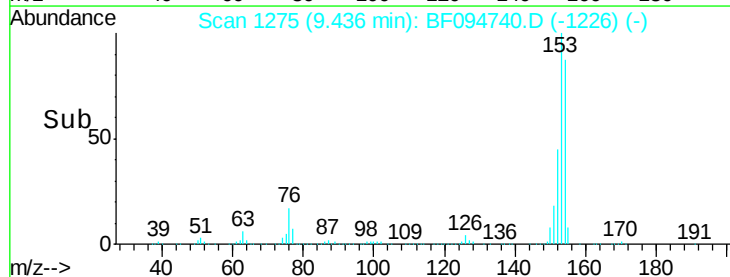
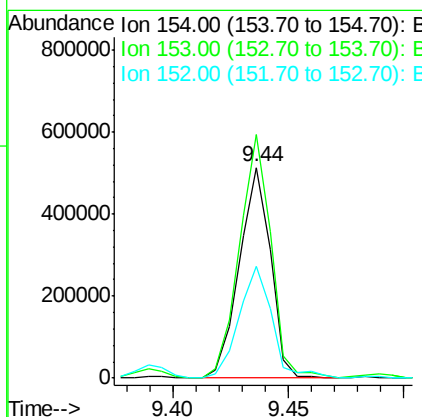
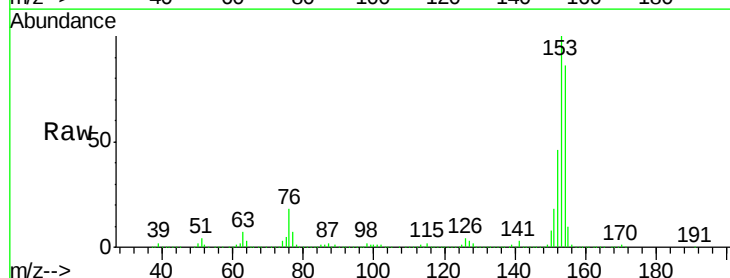
Manual Integrations
APPROVED

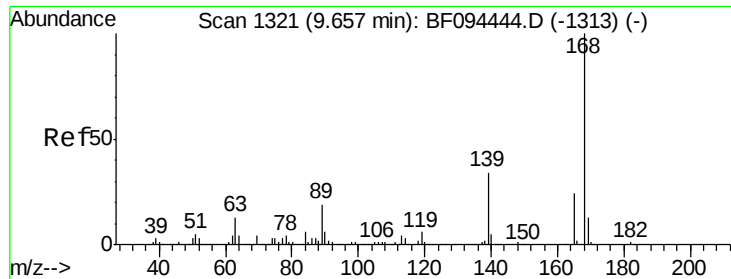
mohammad
5/1/2017 7:51:07 PM



#51
Acenaphthene
Concen: 39.78 ng
RT: 9.44 min Scan# 1275
Delta R.T. -0.01 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.7	90.5	135.7
152	53.3	43.6	65.4





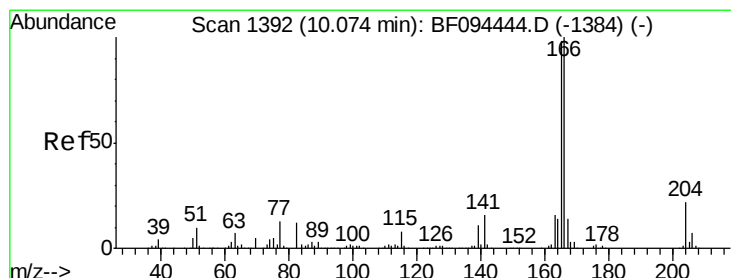
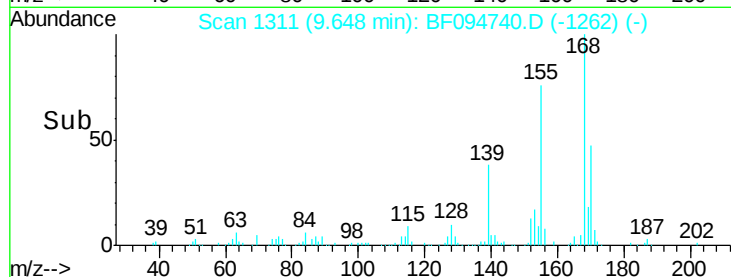
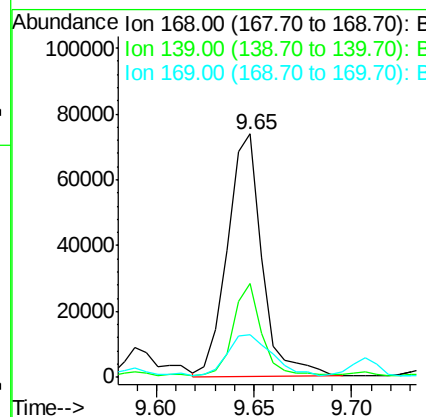
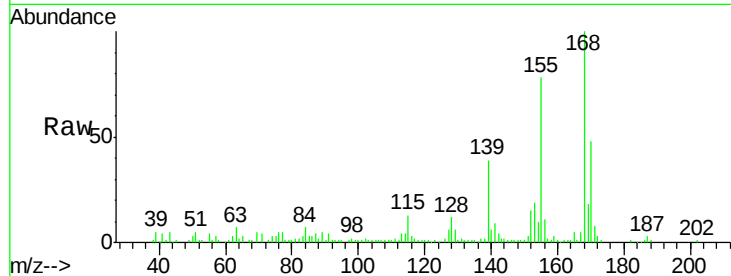
#54
Dibenzofuran
Concen: 5.14 ng
RT: 9.65 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampled :
MW-2B

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.7	30.6	45.8
169	17.7	10.8	16.2

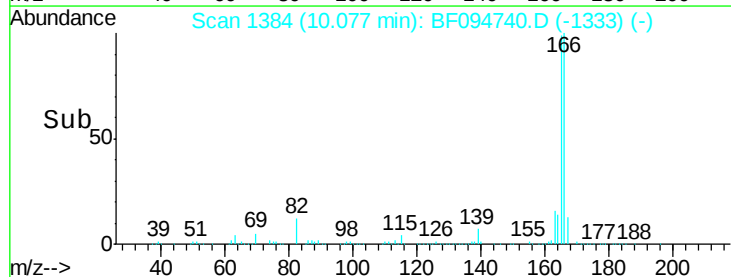
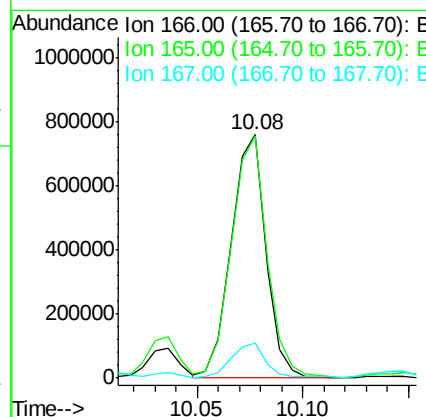
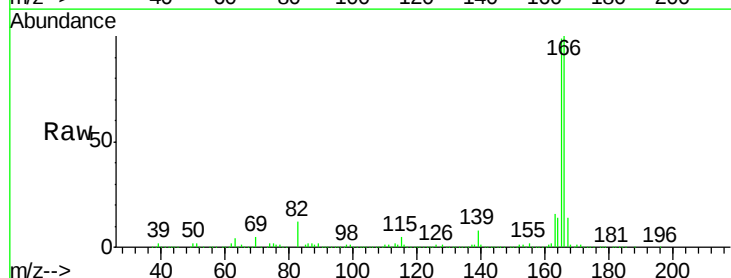
Manual Integrations
APPROVED

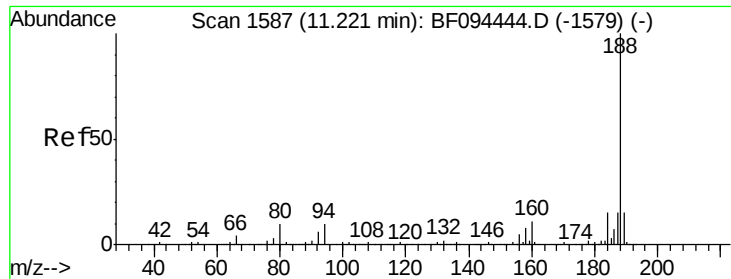
mohammad
5/1/2017 7:51:07 PM



#57
Fluorene
Concen: 62.24 ng
RT: 10.08 min Scan# 1384
Delta R.T. 0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.5	78.8	118.2
167	14.2	10.6	16.0





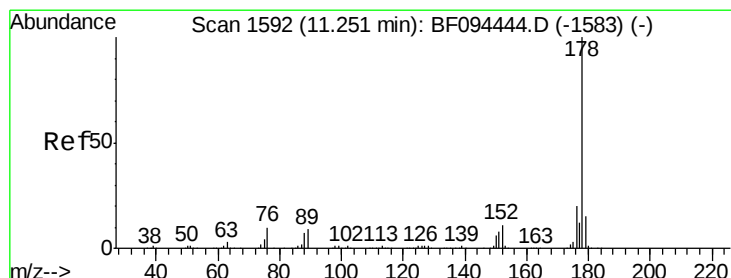
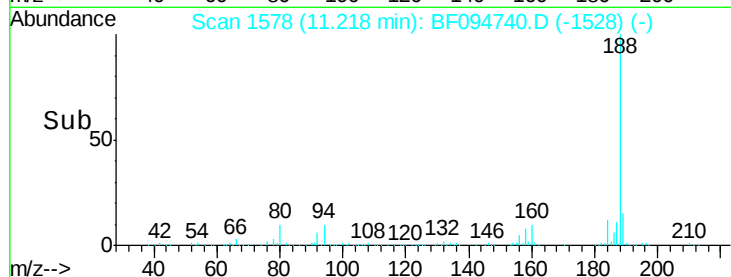
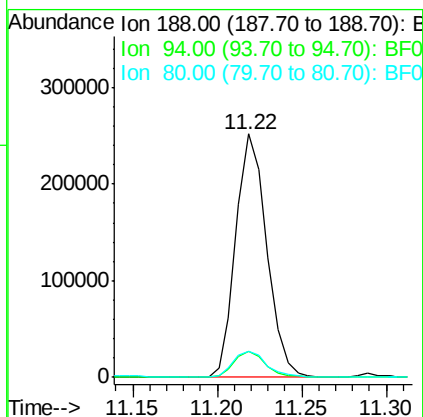
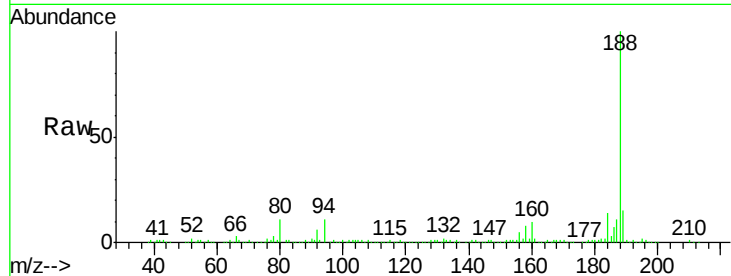
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 1578
Delta R.T. -0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampleId :
MW-2B

Tot Ion	Ratio	Resp	Lower	Upper
188	100	321919		
94	10.6		9.4	14.2
80	10.8		10.2	15.2

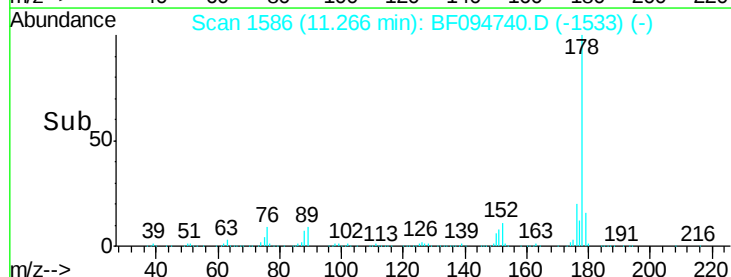
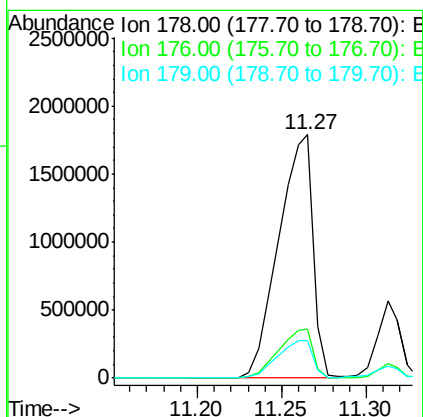
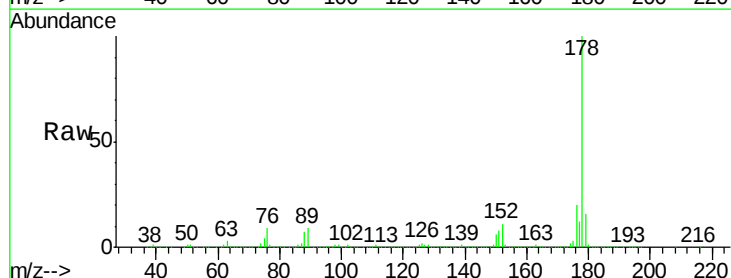
Manual Integrations
APPROVED

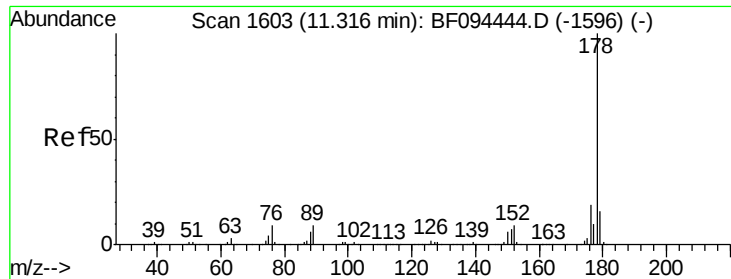
mohammad
5/1/2017 7:51:07 PM



#70
Phenanthrene
Concen: 139.79 ng
RT: 11.27 min Scan# 1586
Delta R.T. 0.01 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2534102		
176	20.3		16.2	24.4
179	15.7		12.6	19.0





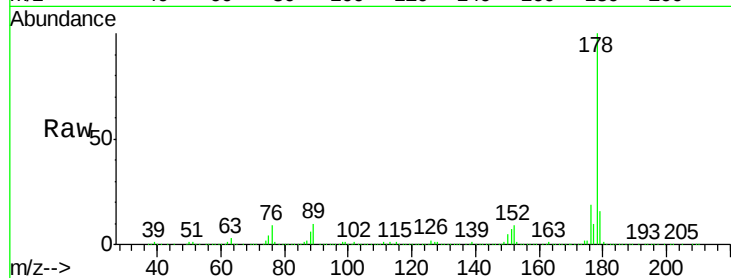
#71
 Anthracene
 Concen: 28.30 ng
 RT: 11.31 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: BF094740.D
 Acq: 1 May 2017 4:13

Instrument :
 BNA_F
 ClientSampleId :
 MW-2B

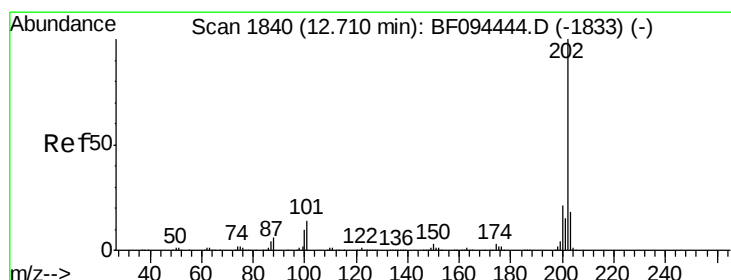
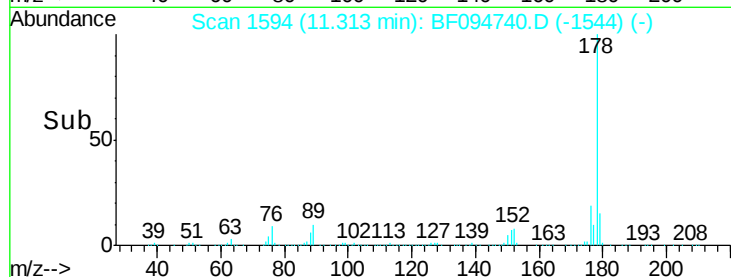
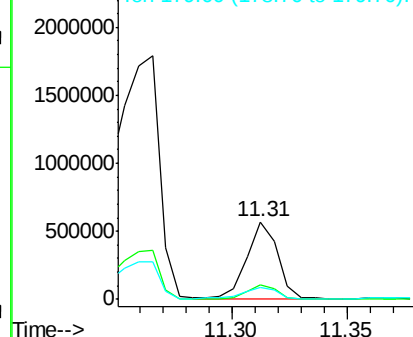
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.6	12.7	19.1

Manual Integrations
 APPROVED

mohammad
 5/1/2017 7:51:07 PM



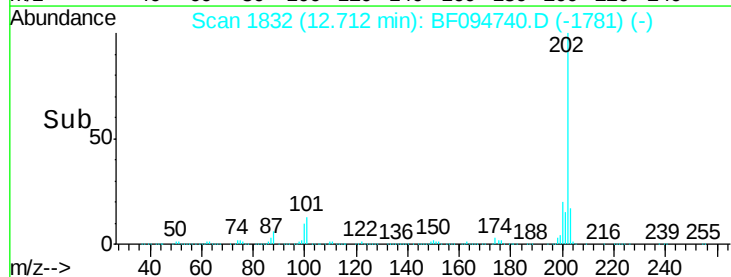
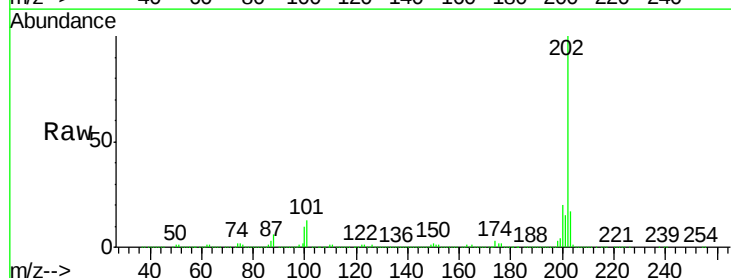
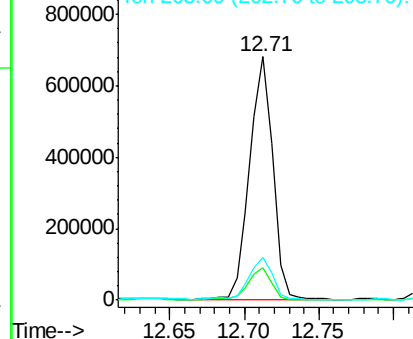
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

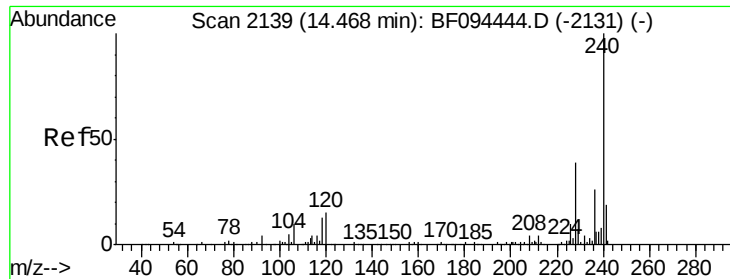


#74
 Fluoranthene
 Concen: 38.82 ng
 RT: 12.71 min Scan# 1832
 Delta R.T. 0.00 min
 Lab File: BF094740.D
 Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.5	0.0	33.2
203	17.5	0.0	38.1

Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





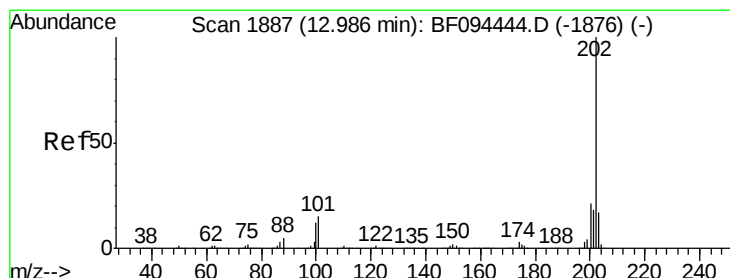
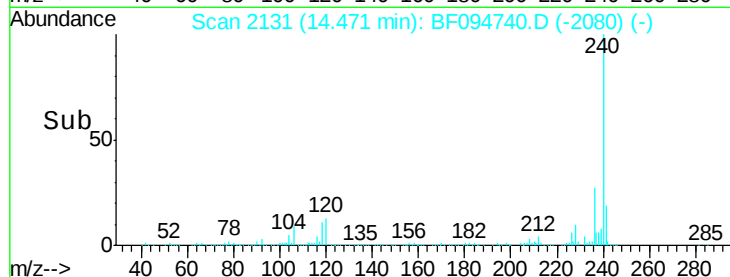
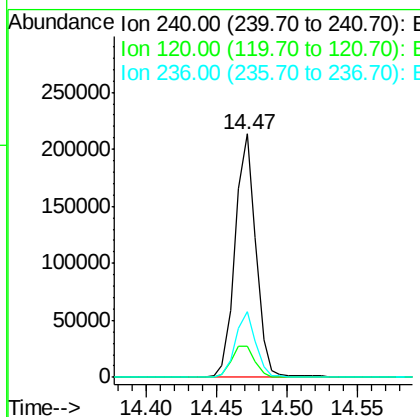
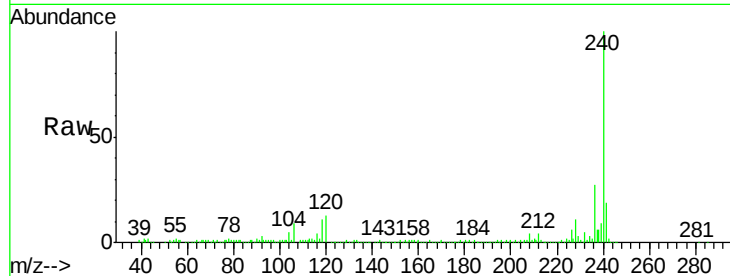
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.47 min Scan# 2131
Delta R.T. 0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampled :
MW-2B

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.7	5.8	8.8#
236	26.8	20.5	30.7

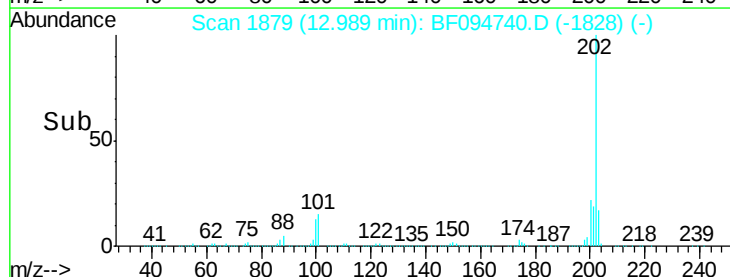
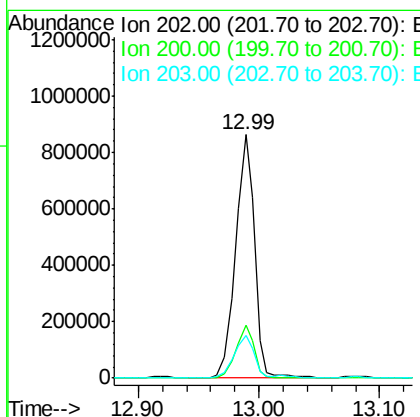
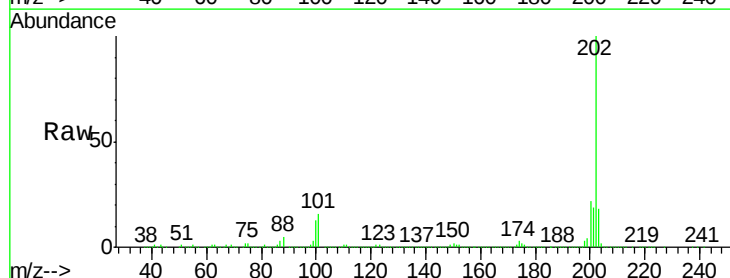
Manual Integrations
APPROVED

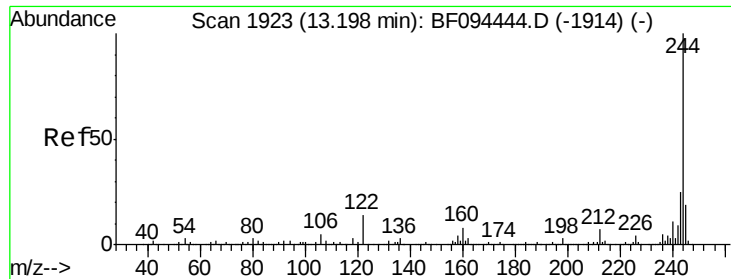
mohammad
5/1/2017 7:51:07 PM



#77
Pyrene
Concen: 61.81 ng
RT: 12.99 min Scan# 1879
Delta R.T. 0.00 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.6	26.4
203	17.6	14.4	21.6





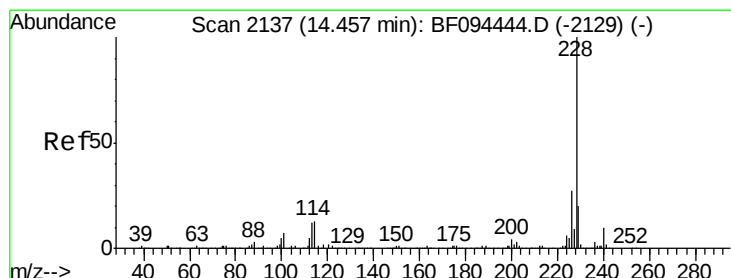
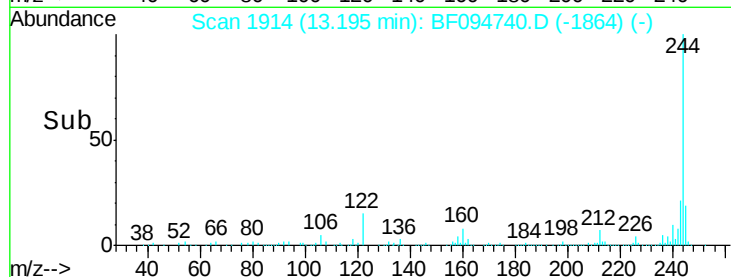
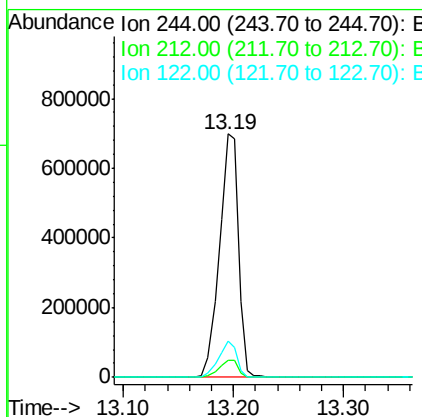
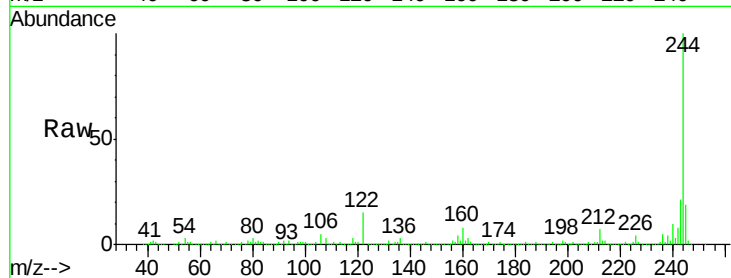
#78
 Terphenyl-d14
 Concen: 103.24 ng
 RT: 13.19 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: BF094740.D
 Acq: 1 May 2017 4:13

Instrument :
 BNA_F
 ClientSampleId :
 MW-2B

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	14.9	10.3	15.5

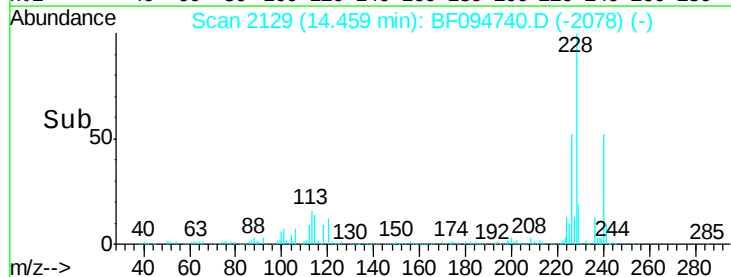
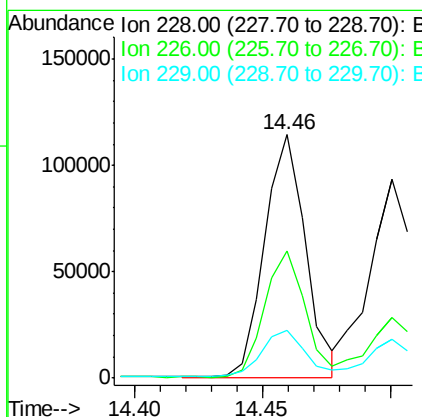
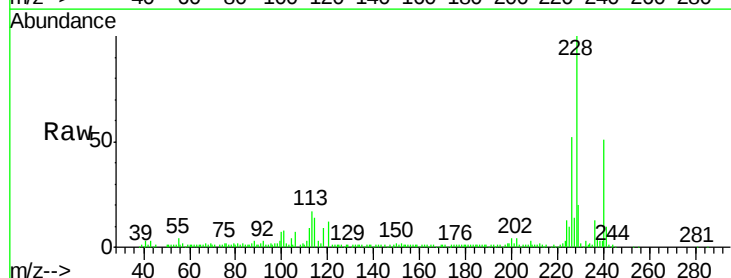
Manual Integrations
 APPROVED

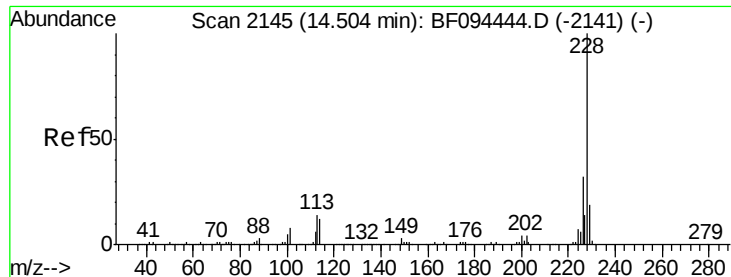
mohammad
 5/1/2017 7:51:07 PM



#80
 Benzo(a)anthracene
 Concen: 10.12 ng m
 RT: 14.46 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: BF094740.D
 Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	52.0	22.6	33.8#
229	19.5	16.3	24.5





#82

Chrysene

Concen: 9.46 ng

RT: 14.50 min Scan# 2136

Delta R.T. -0.00 min

Lab File: BF094740.D

Acq: 1 May 2017 4:13

Instrument :

BNA_F

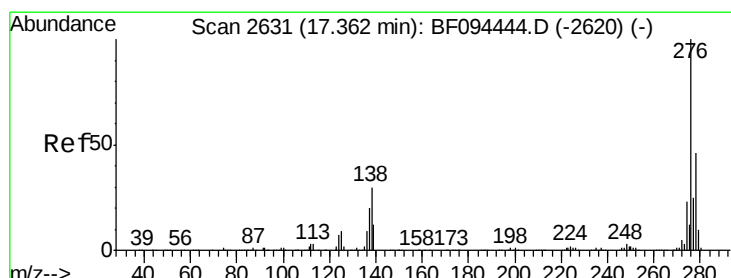
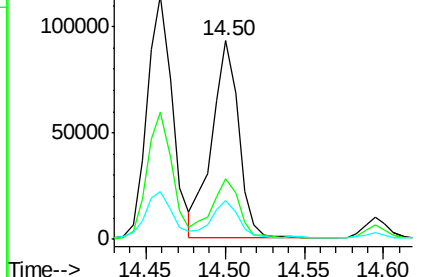
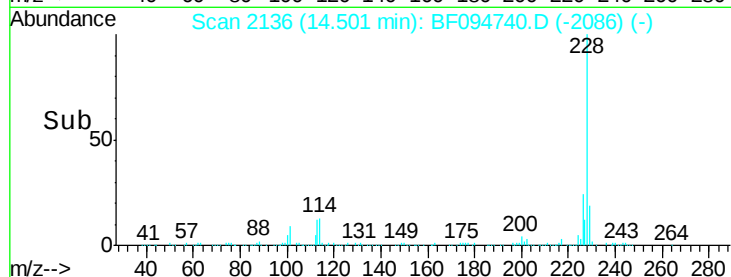
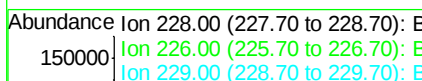
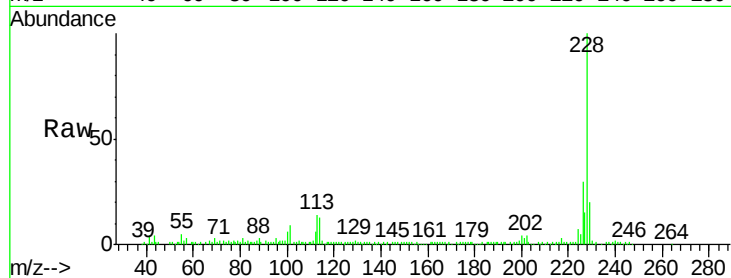
ClientSampled :

MW-2B

Tot Ion:	228	Resp:	109155
Ion Ratio		Lower	Upper
228	100		
226	30.4	24.9	37.3
229	19.6	15.8	23.6

Manual Integrations
APPROVED

mohammad
5/1/2017 7:51:07 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.18 ng

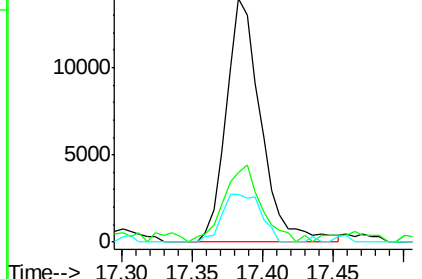
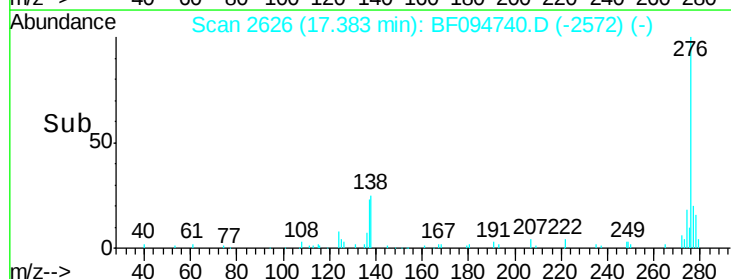
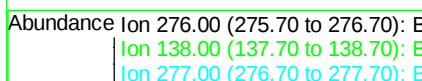
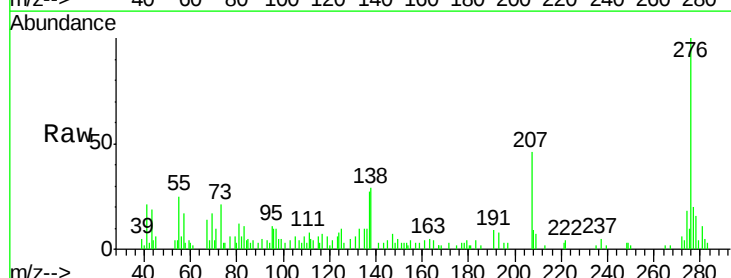
RT: 17.38 min Scan# 2626

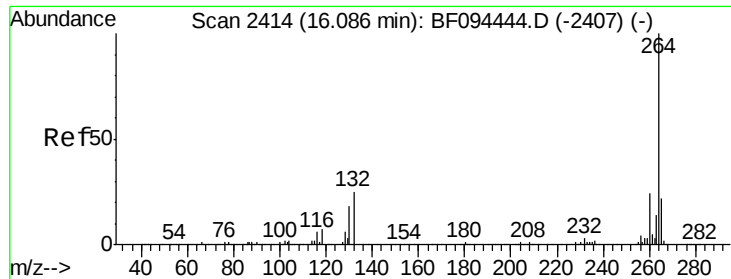
Delta R.T. 0.02 min

Lab File: BF094740.D

Acq: 1 May 2017 4:13

Tgt Ion:	276	Resp:	23980
Ion Ratio		Lower	Upper
276	100		
138	33.4	27.8	41.6
277	22.2	20.2	30.4





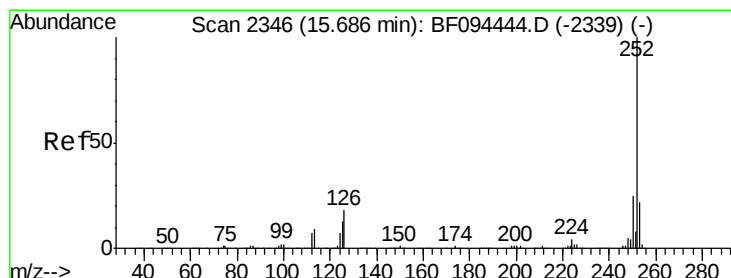
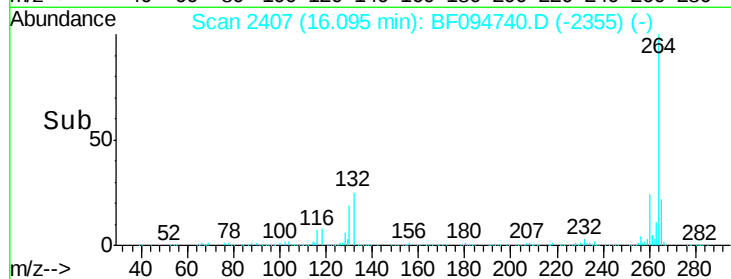
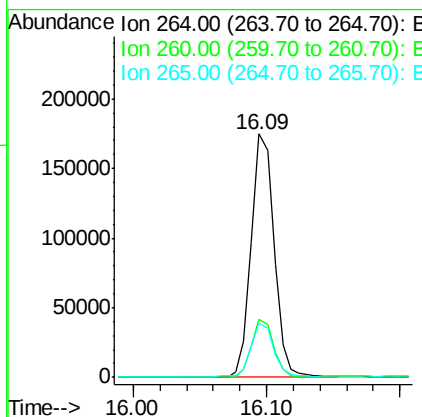
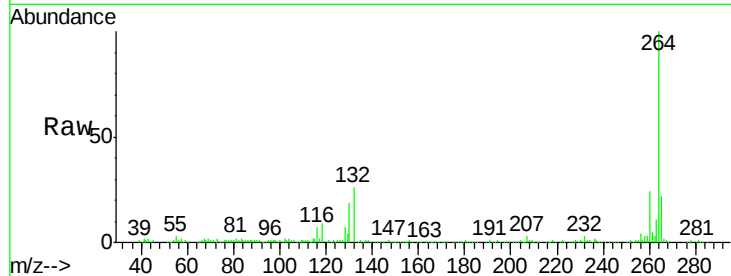
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.09 min Scan# 2407
Delta R.T. 0.01 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampleId :
MW-2B

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	22.4	17.2	25.8

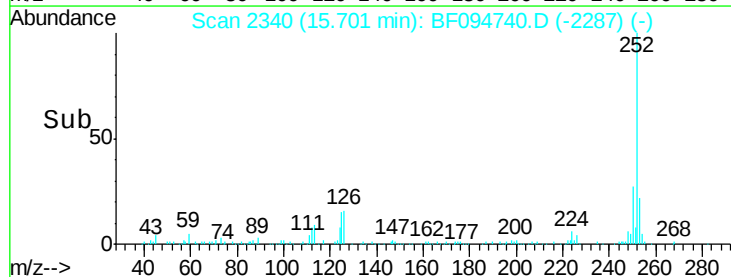
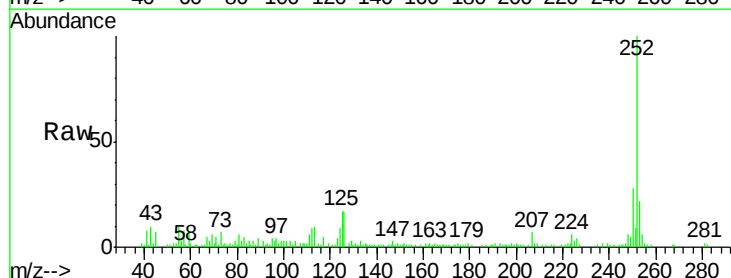
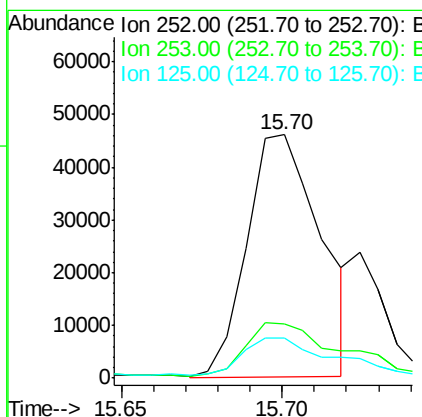
Manual Integrations
APPROVED

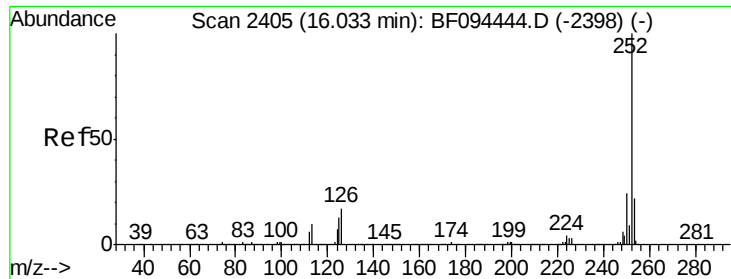
mohammad
5/1/2017 7:51:07 PM



#87
Benzo(b)fluoranthene
Concen: 5.79 ng m
RT: 15.70 min Scan# 2340
Delta R.T. 0.01 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	16.6	9.8	14.8





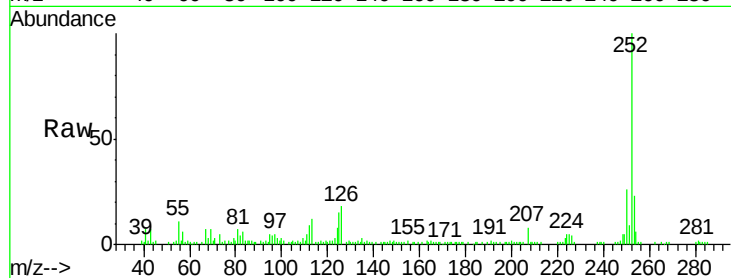
#89
Benzo(a)pyrene
Concen: 5.77 ng
RT: 16.04 min Scan# 2398
Delta R.T. 0.01 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Instrument :
BNA_F
ClientSampled :
MW-2B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	15.4	11.0	16.4

Manual Integrations
APPROVED

mohammad
5/1/2017 7:51:07 PM

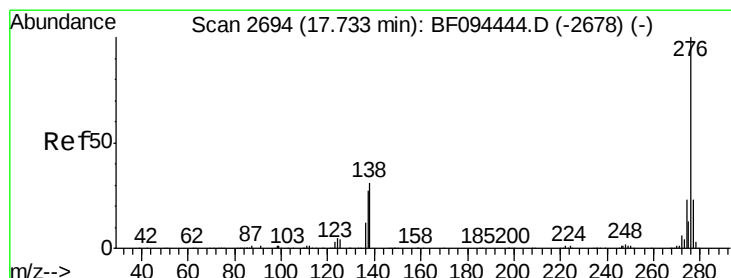
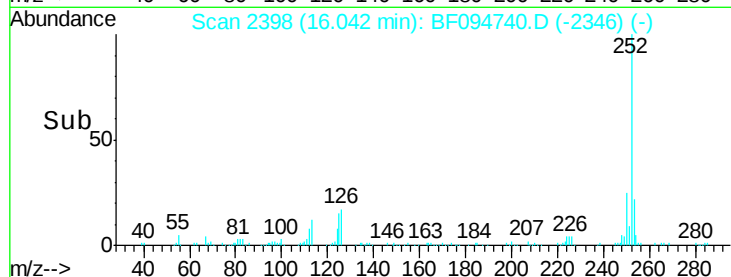
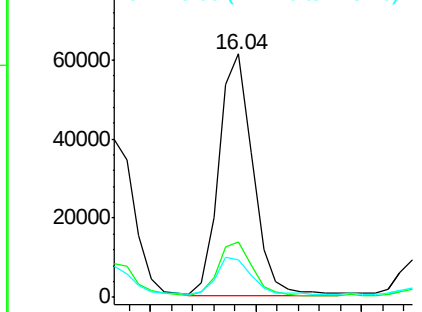


Abundance

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



#91
Benzo(g,h,i)perylene
Concen: 2.69 ng
RT: 17.76 min Scan# 2690
Delta R.T. 0.03 min
Lab File: BF094740.D
Acq: 1 May 2017 4:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.8	18.6	28.0
138	32.5	25.4	38.0

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

