

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071117\
 Data File : BF096669.D
 Acq On : 12 Jul 2017 3:45
 Operator : SJ/JU
 Sample : I4130-05
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-P8-BASE

Manual Integrations
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 7/12/2017 4:57:52 PM

Quant Time: Jul 12 04:57:33 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 07 13:02:33 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	104377	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	396216	20.00	ng	-0.01
38) Acenaphthene-d10	9.72	164	154525	20.00	ng	-0.01
63) Phenanthrene-d10	11.20	188	213267	20.00	ng	-0.01
75) Chrysene-d12	13.83	240	202313	20.00	ng	-0.02
86) Perylene-d12	15.23	264	231362	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	697368	98.61	ng	-0.01
7) Phenol-d6	6.33	99	833257	95.85	ng	-0.01
23) Nitrobenzene-d5	7.25	82	458625	69.56	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	106503	88.24	ng	-0.01
44) 2-Fluorobiphenyl	9.05	172	527417	58.36	ng	-0.02
78) Terphenyl-d14	12.78	244	290877	30.72	ng	-0.02

Target Compounds					Qvalue	
11) bis(2-Chloroethyl)ether	6.43	93	474762	62.027	ng	91
12) 1,3-Dichlorobenzene	6.63	146	26386	3.337	ng	96
13) 1,4-Dichlorobenzene	6.70	146	108166	13.686	ng	97
14) 1,2-Dichlorobenzene	6.86	146	346694	47.777	ng	97
16) 2,2'-oxybis(1-Chloropropan	6.97	45	558022	35.862	ng	98
27) 2,4-Dimethylphenol	7.63	122	278785	44.720	ng	98
31) Naphthalene	8.00	128	2187850	116.966	ng	98
37) 2-Methylnaphthalene	8.70	142	2138979	179.645	ng	98
45) 1,1'-Biphenyl	9.15	154	194176	14.666	ng	97
49) Dimethylphthalate	9.44	163	120136	10.415	ng	# 91
51) Acenaphthene	9.76	154	185181	19.215	ng	93
57) Fluorene	10.27	166	135950	15.129	ng	# 94
70) Phenanthrene	11.22	178	354479	30.747	ng	99
71) Anthracene	11.27	178	106227	9.042	ng	97
74) Fluoranthene	12.40	202	169658	15.010	ng	98
77) Pyrene	12.63	202	163040	10.040	ng	98
80) Benzo(a)anthracene	13.82	228	63165	5.391	ng	98
82) Chrysene	13.85	228	62130m	5.064	ng	
85) Indeno(1,2,3-cd)pyrene	16.56	276	26718	2.759	ng	97
87) Benzo(b)fluoranthene	14.83	252	69944m	4.825	ng	
88) Benzo(k)fluoranthene	14.86	252	26088m	2.012	ng	
89) Benzo(a)pyrene	15.17	252	48130	3.719	ng	# 90
91) Benzo(g,h,i)perylene	16.96	276	22811	2.162	ng	# 87

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

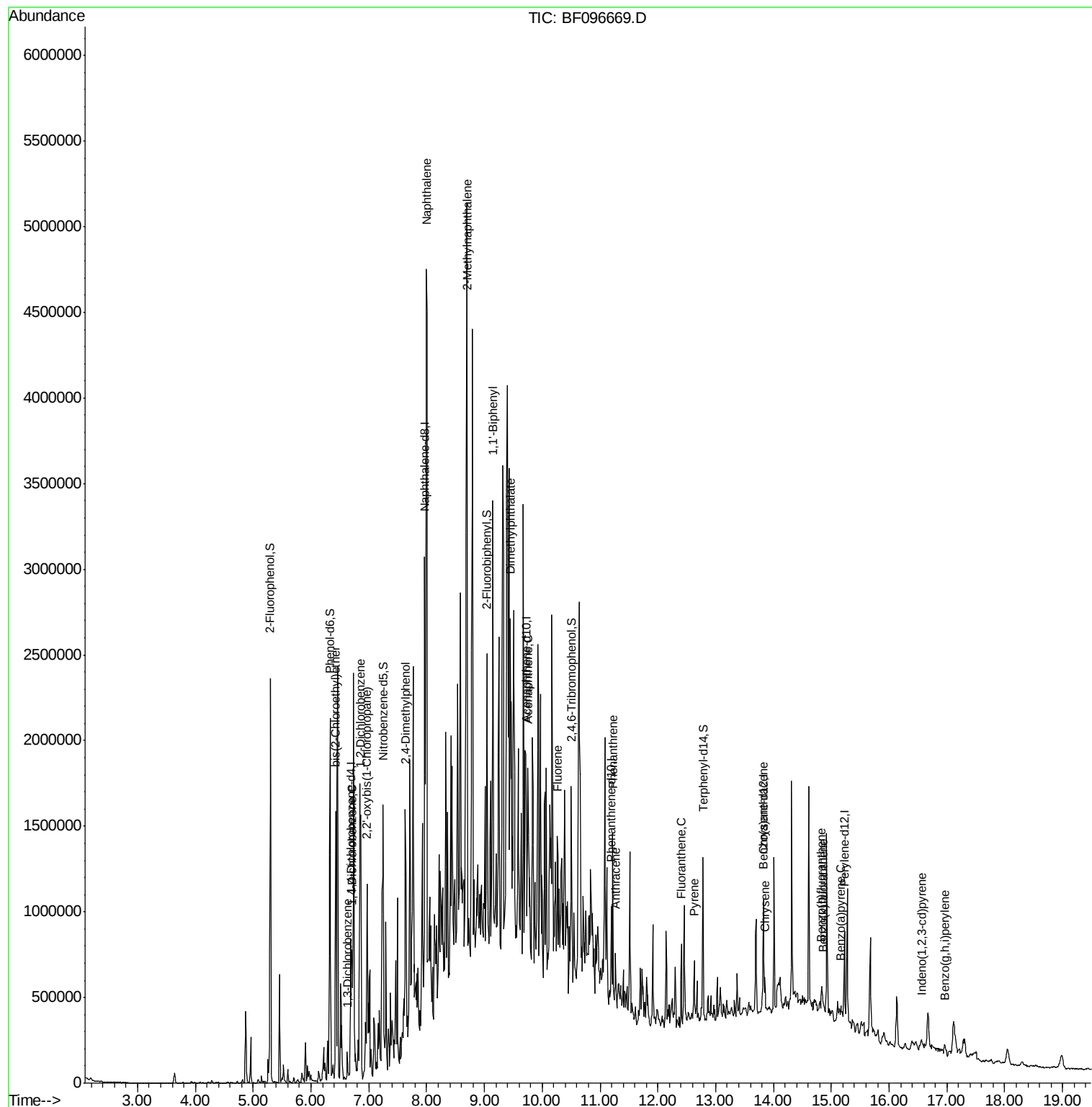
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071117\
Data File : BF096669.D
Acq On : 12 Jul 2017 3:45
Operator : SJ/JU
Sample : I4130-05
Misc :
ALS Vial : 34 Sample Multiplier: 1

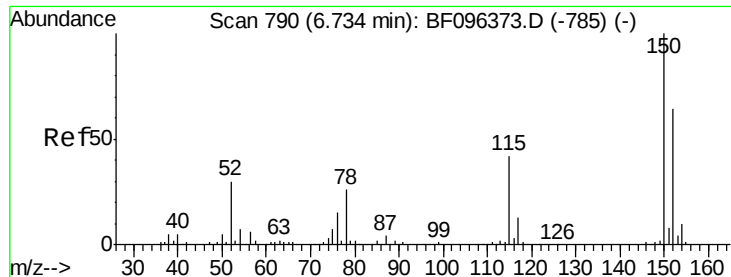
Instrument :
BNA_F
ClientSampleId :
E2-P8-BASE

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7/12/2017 4:57:52 PM

Quant Time: Jul 12 04:57:33 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 07 13:02:33 2017
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#1

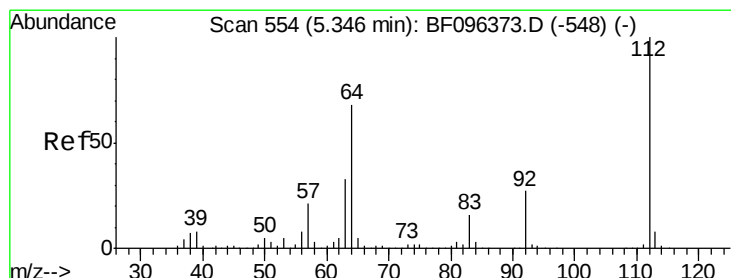
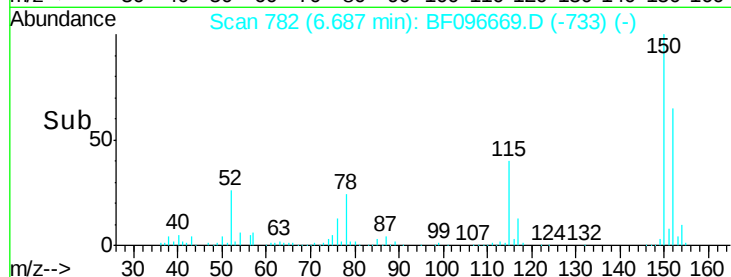
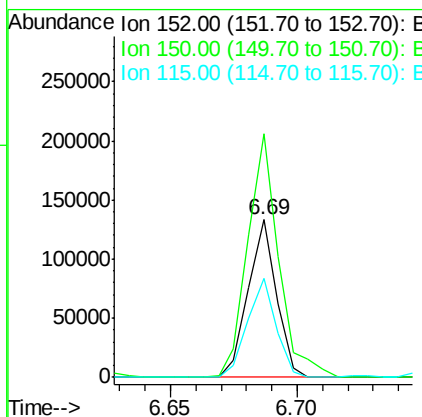
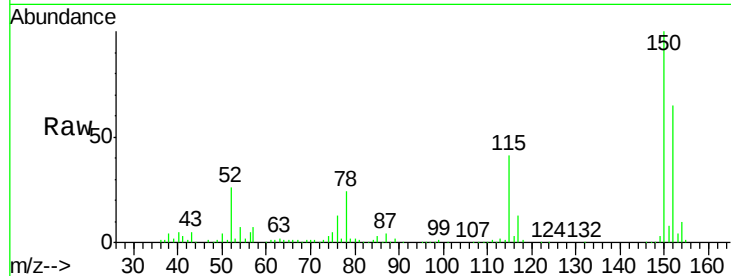
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Instrument :
BNA_F
ClientSampleId :
E2-P8-BASE

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.7	126.2	189.2
115	62.8	52.2	78.2

Manual Integrations
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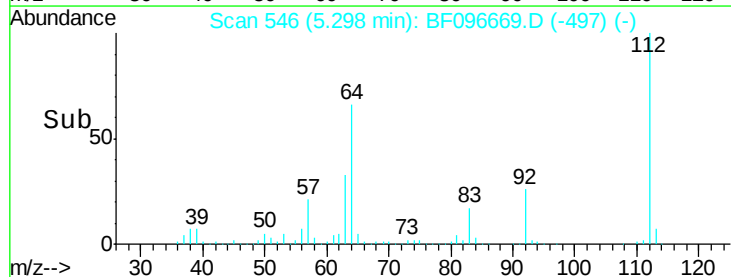
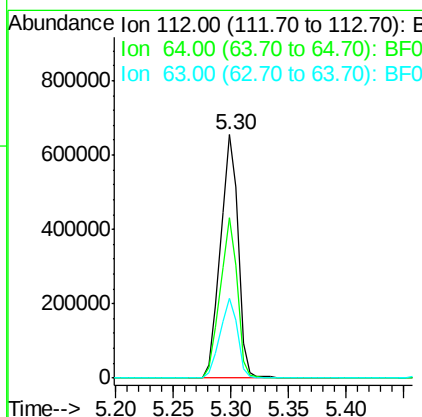
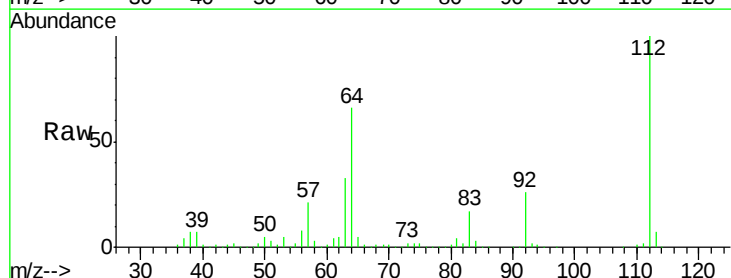
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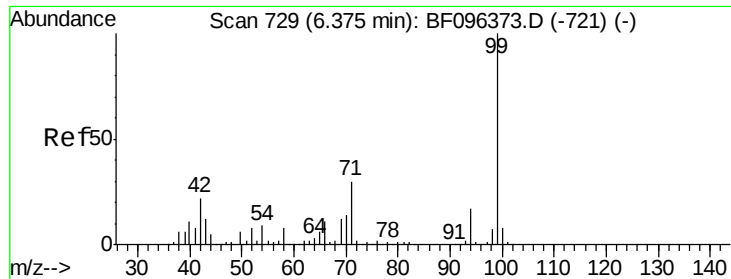


#5

2-Fluorophenol
Concen: 98.613 ng
RT: 5.30 min Scan# 546
Delta R.T. -0.01 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.7	46.0	69.0
63	32.5	23.4	35.0





#7

Phenol-d6

Concen: 95.845 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Instrument :

BNA_F

ClientSampleId :

E2-P8-BASE

Tgt Ion: 99 Resp: 833257
Ion Ratio Lower Upper

99 100

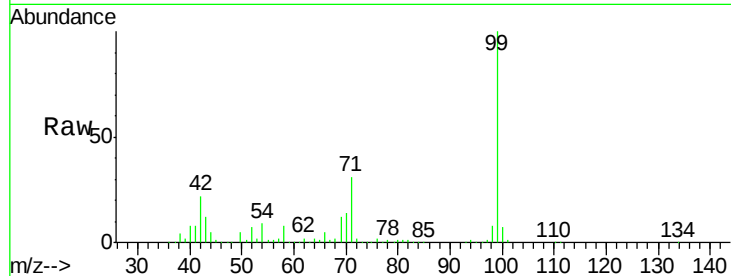
42 21.8 13.5 20.3#

71 31.5 24.5 36.7

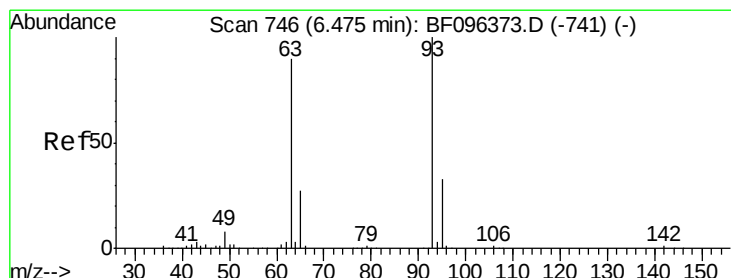
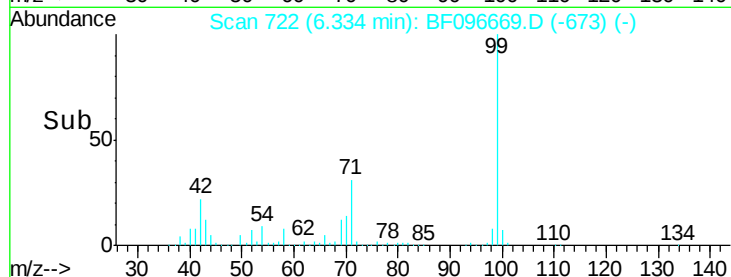
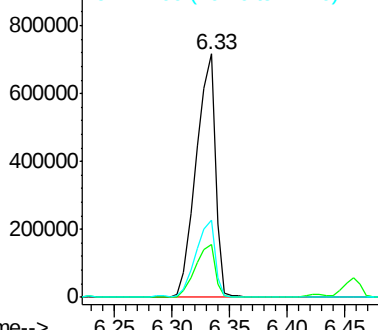
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#11

bis(2-Chloroethyl)ether

Concen: 62.027 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF096669.D

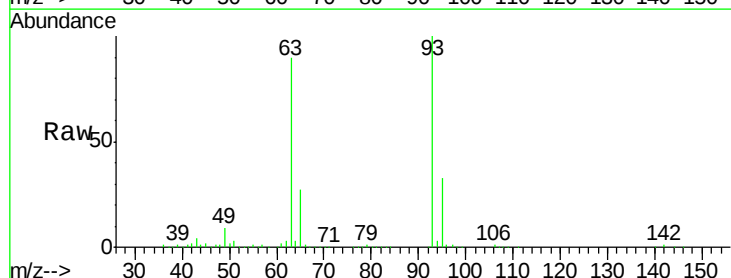
Acq: 12 Jul 2017 3:45

Tgt Ion: 93 Resp: 474762
Ion Ratio Lower Upper

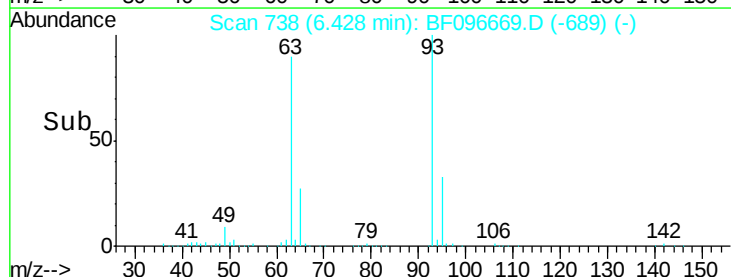
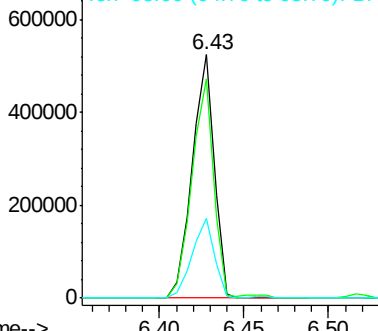
93 100

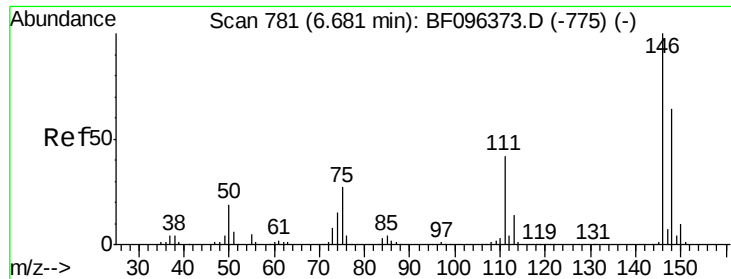
63 90.2 59.2 99.2

95 32.8 12.8 52.8



Abundance Ion 93.00 (92.70 to 93.70): BF0
Ion 63.00 (62.70 to 63.70): BF0
Ion 95.00 (94.70 to 95.70): BF0





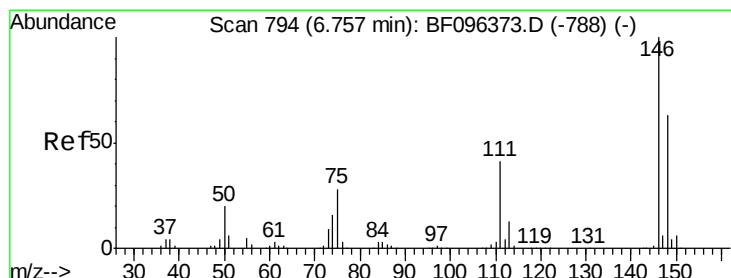
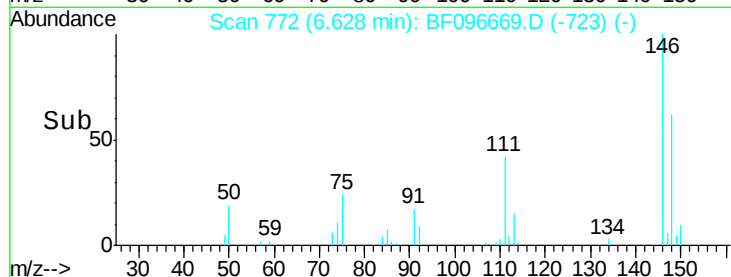
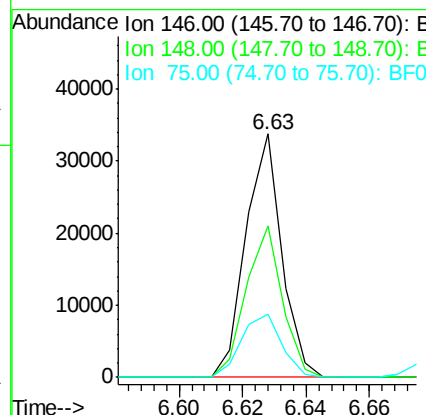
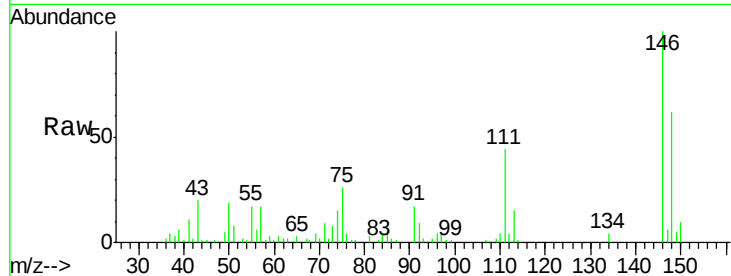
#12
 1,3-Dichlorobenzene
 Concen: 3.337 ng
 RT: 6.63 min Scan# 772
 Delta R.T. -0.01 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Instrument :
 BNA_F
 ClientSampleId :
 E2-P8-BASE

Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.0	51.8	77.6
75	26.1	23.1	34.7

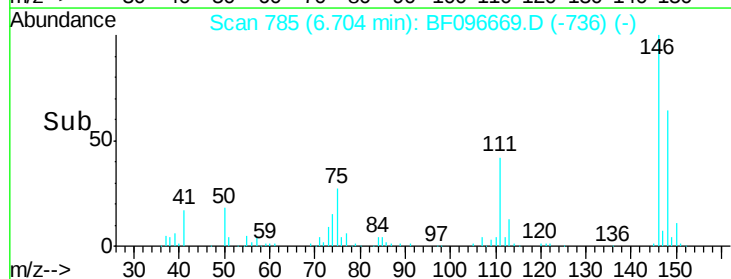
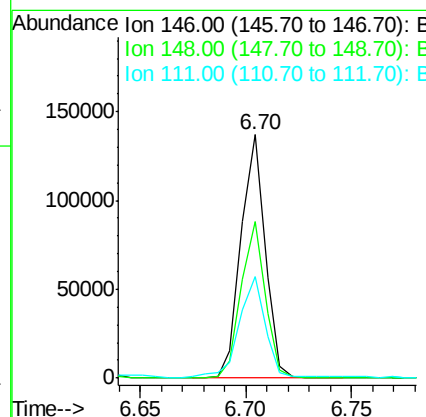
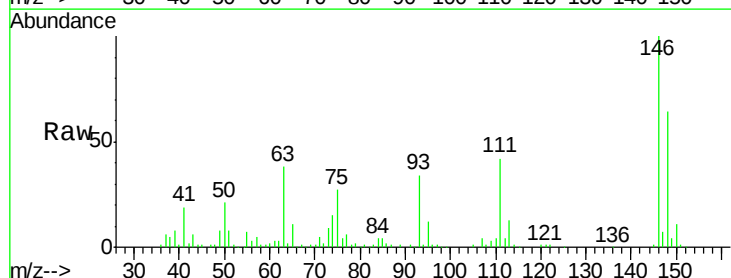
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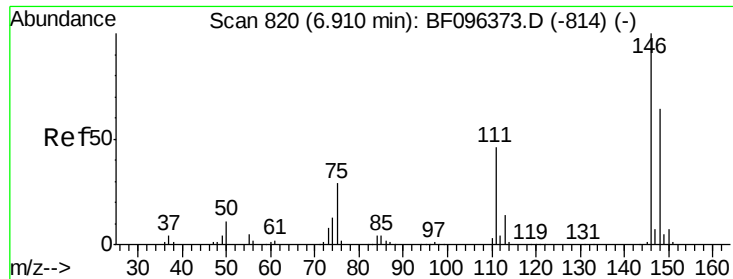
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#13
 1,4-Dichlorobenzene
 Concen: 13.686 ng
 RT: 6.70 min Scan# 785
 Delta R.T. -0.01 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.1	52.2	78.2
111	41.8	30.3	45.5





#14

1,2-Dichlorobenzene

Concen: 47.777 ng

RT: 6.86 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Instrument :

BNA_F

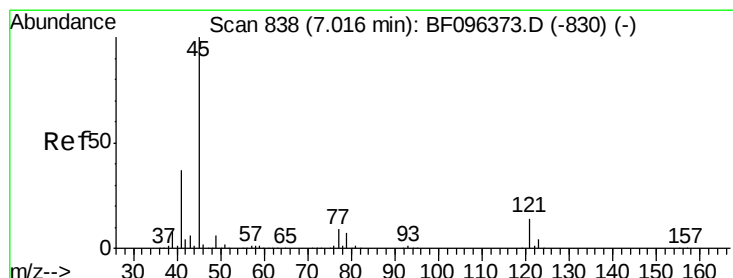
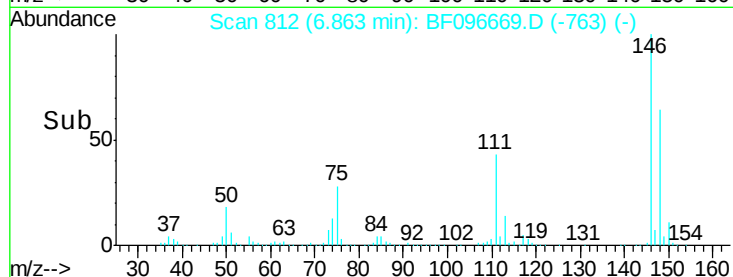
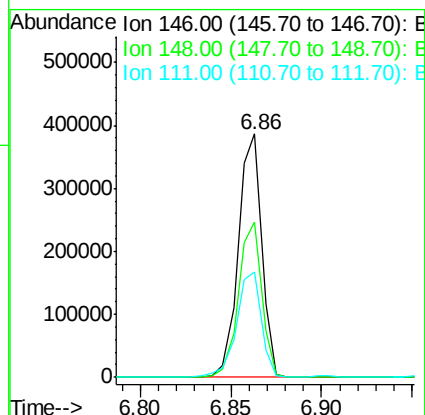
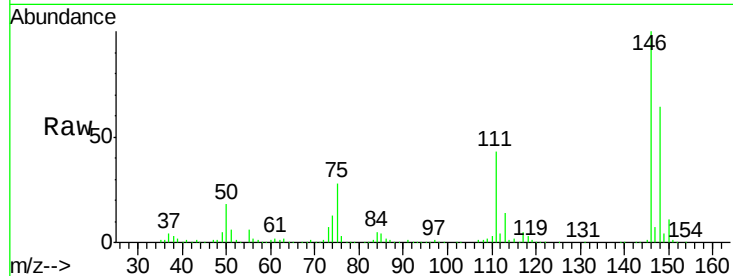
ClientSampled :

E2-P8-BASE

Tgt Ion:	146	Resp:	346694
Ion Ratio	Lower	Upper	
146	100		
148	63.6	50.4	75.6
111	43.3	38.2	57.4

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#16

2,2'-oxybis(1-Chloropropane)

Concen: 35.862 ng

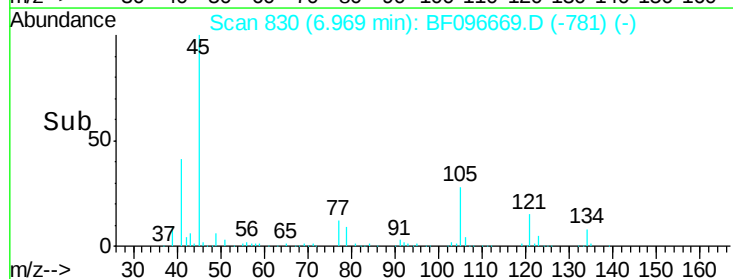
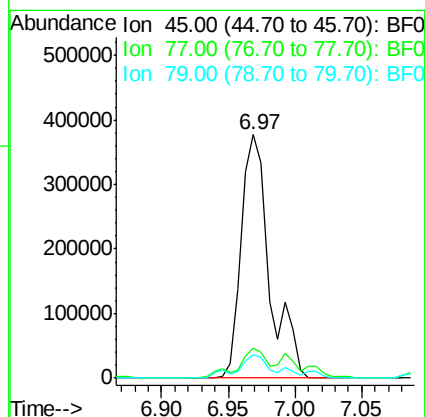
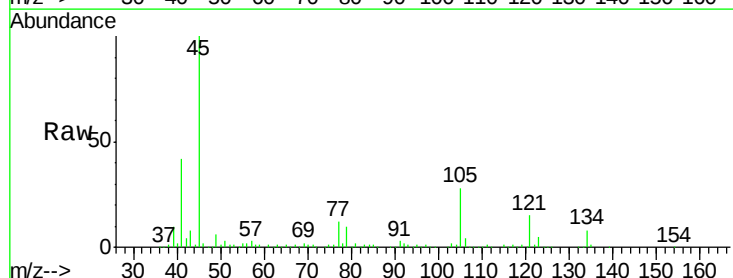
RT: 6.97 min Scan# 830

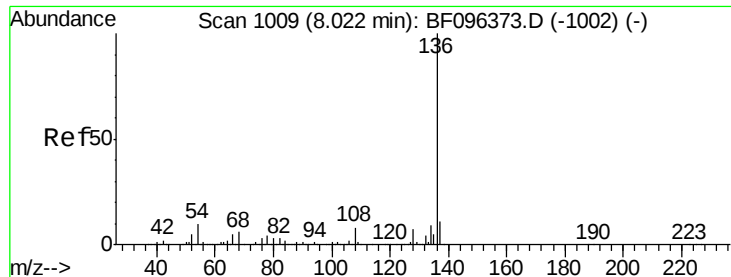
Delta R.T. -0.01 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Tgt Ion:	45	Resp:	558022
Ion Ratio	Lower	Upper	
45	100		
77	12.2	0.0	33.2
79	9.8	0.0	30.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Instrument :

BNA_F

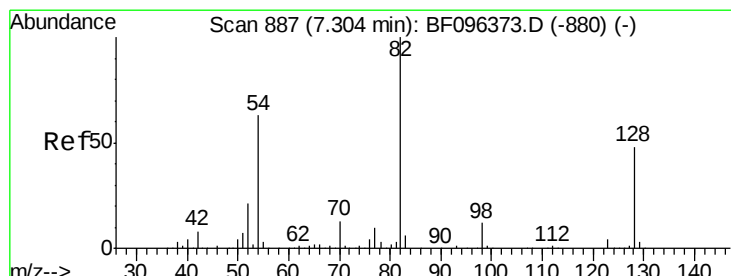
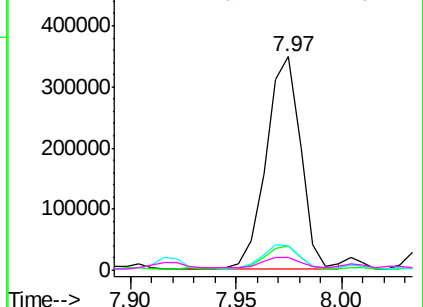
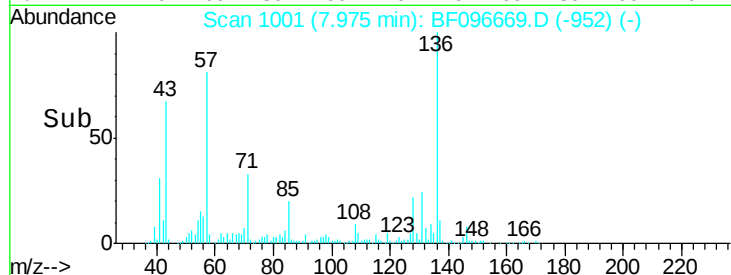
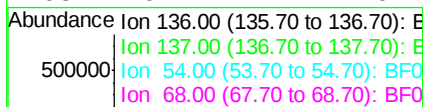
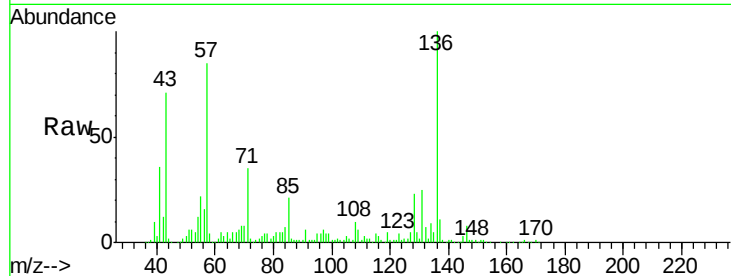
ClientSampled :

E2-P8-BASE

Tgt Ion	Ratio	Resp Lower	Upper
136	100		
137	11.3	8.5	12.7
54	11.6	4.9	7.3#
68	6.1	4.1	6.1#

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#23

Nitrobenzene-d5

Concen: 69.556 ng

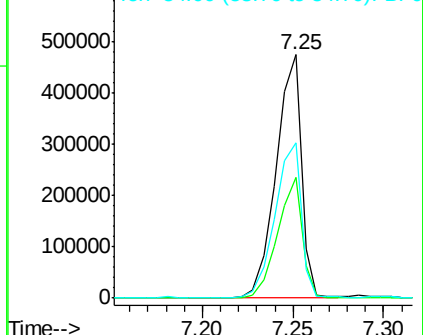
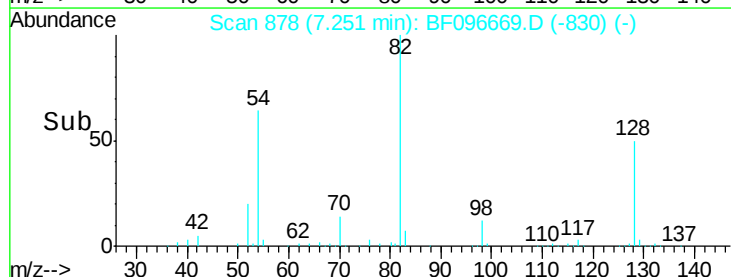
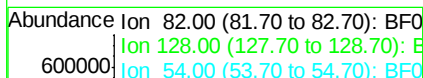
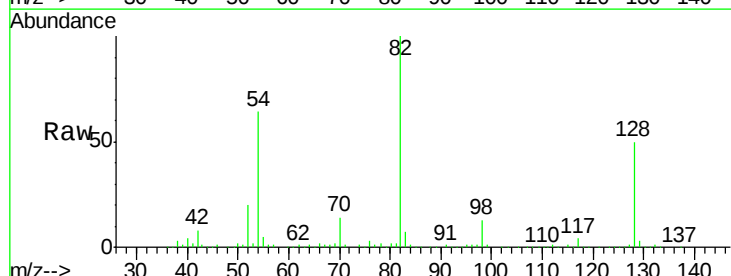
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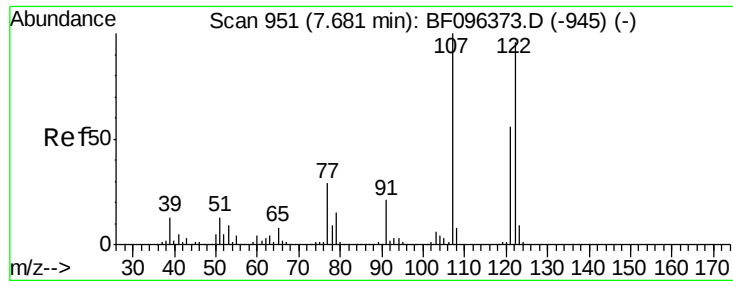
Delta R.T. -0.02 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	49.7	34.0	51.0
54	63.7	42.2	63.2#





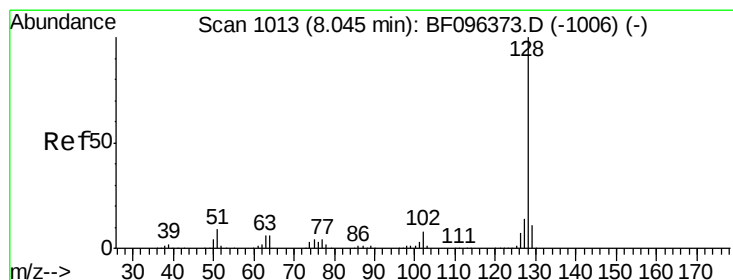
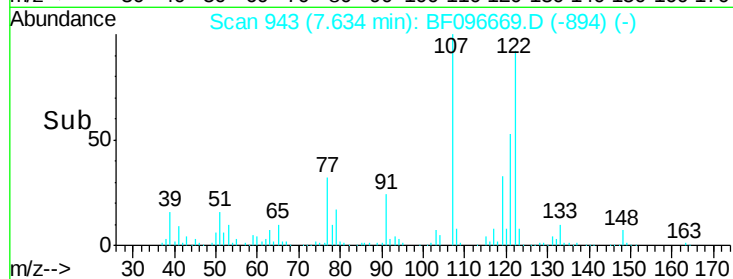
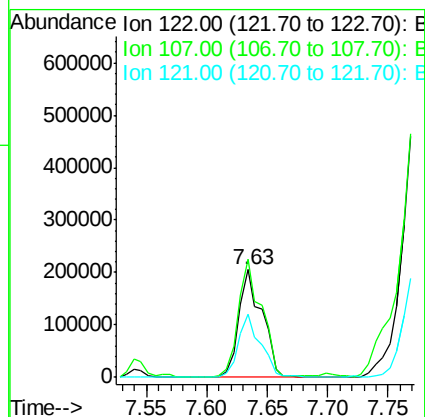
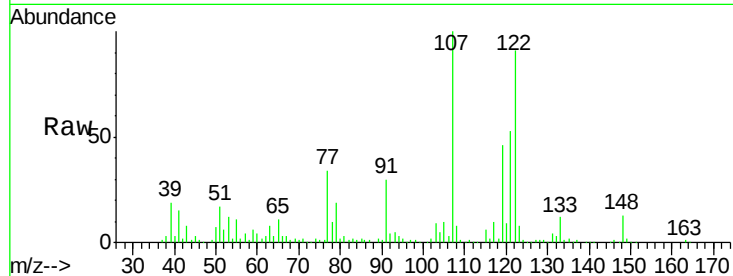
#27
2,4-Dimethylphenol
Concen: 44.720 ng
RT: 7.63 min Scan# 943
Delta R.T. -0.01 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Instrument :
BNA_F
ClientSampleId :
E2-P8-BASE

Tgt Ion	Ratio	Resp	Lower	Upper
122	100	278785		
107	109.9	89.2	133.8	
121	58.3	45.2	67.8	

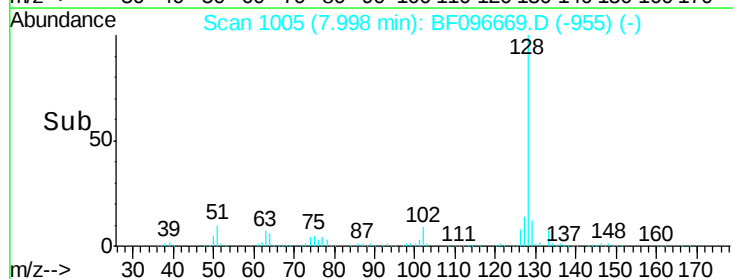
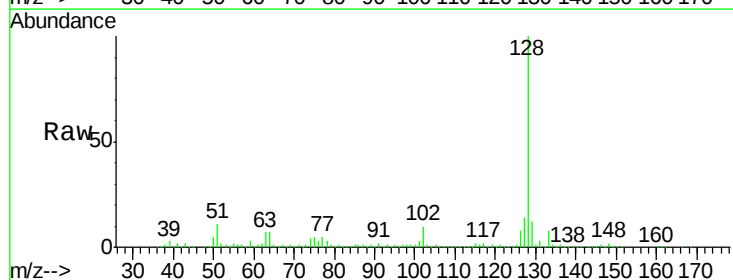
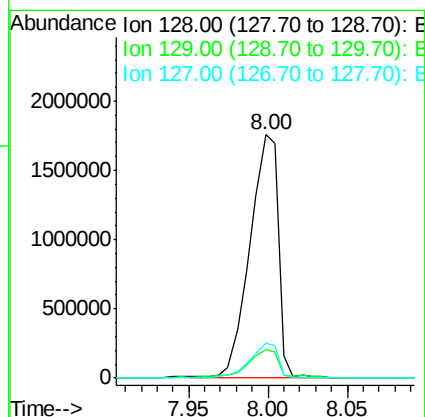
Manual Integrations
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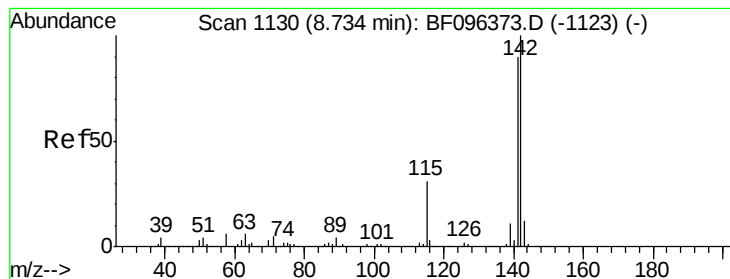
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#31
Naphthalene
Concen: 116.966 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	2187850		
129	11.9	9.0	13.6	
127	14.2	10.8	16.2	





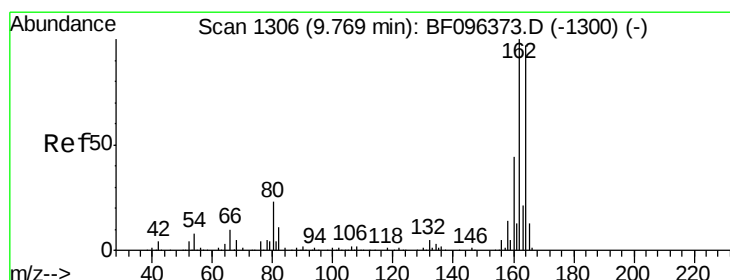
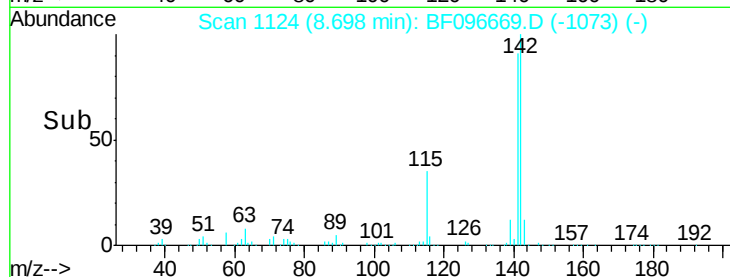
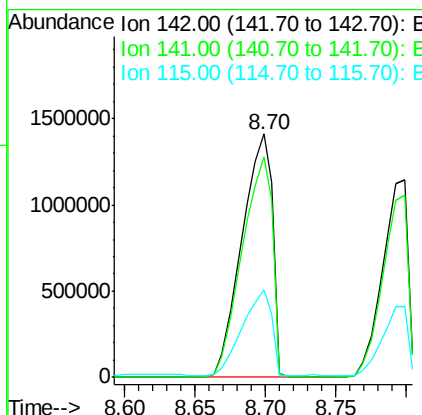
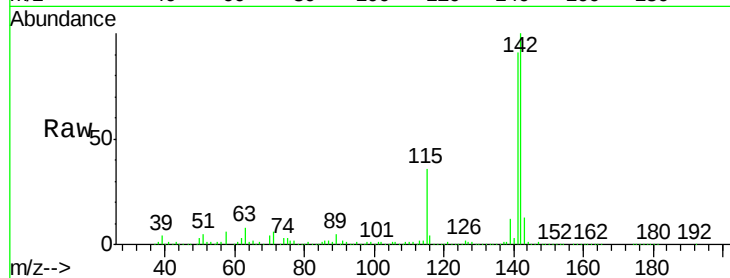
#37
 2-Methylnaphthalene
 Concen: 179.645 ng
 RT: 8.70 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Instrument :
 BNA_F
 ClientSampleId :
 E2-P8-BASE

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.3	106.9
115	35.9	27.1	40.7

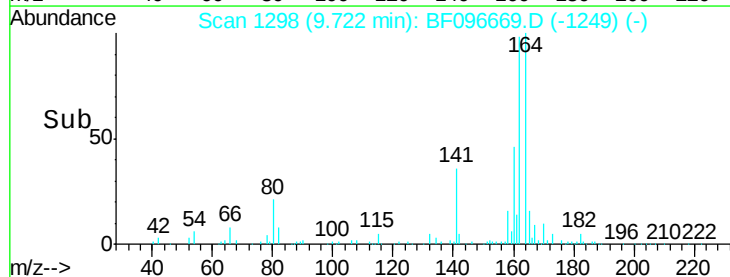
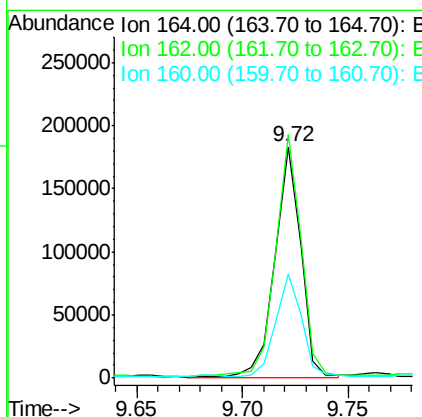
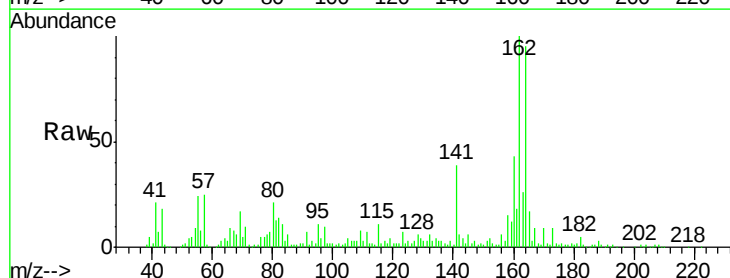
Manual Integrations
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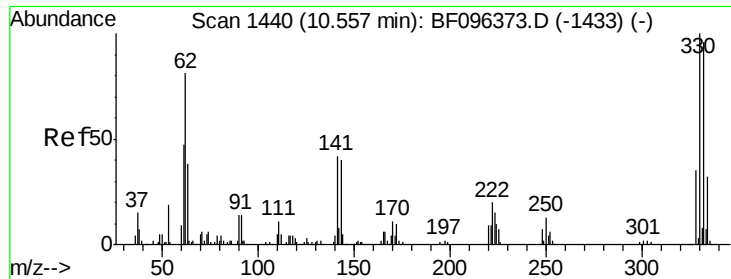
mohammad
 7/12/2017 4:57:52 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	82.6	123.8
160	45.2	36.2	54.2





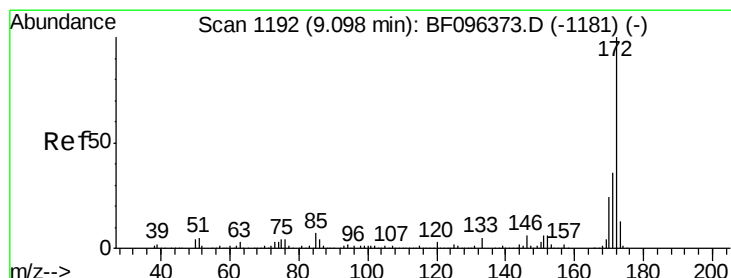
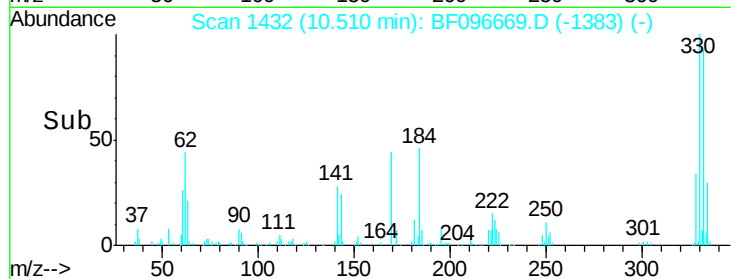
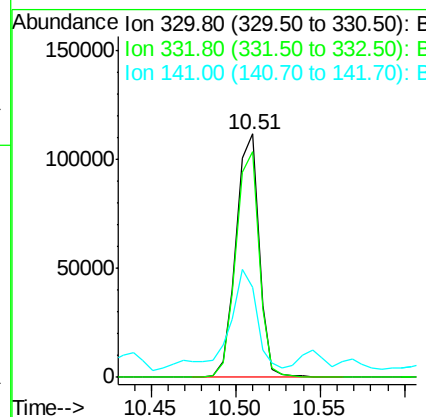
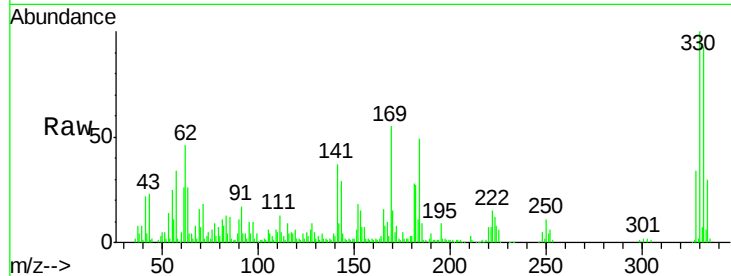
#41
 2,4,6-Tribromophenol
 Concen: 88.236 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Instrument :
 BNA_F
 ClientSampled :
 E2-P8-BASE

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	106503		
332	93.6	76.6	115.0	
141	50.6	31.4	47.2	

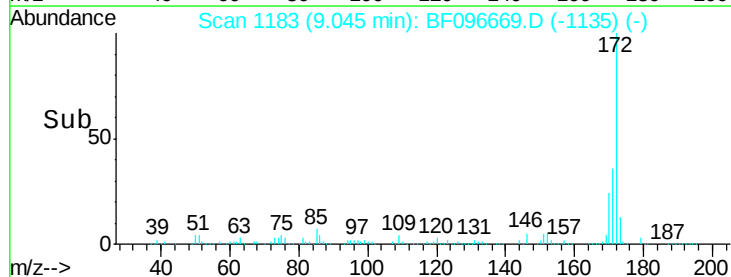
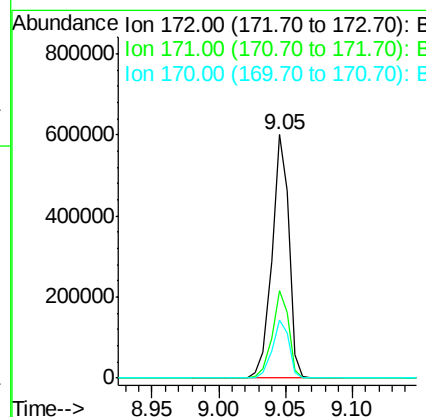
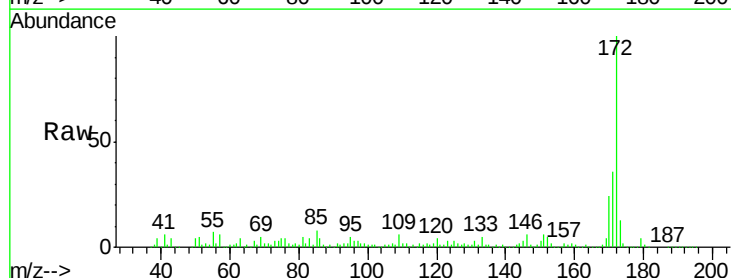
Manual Integrations
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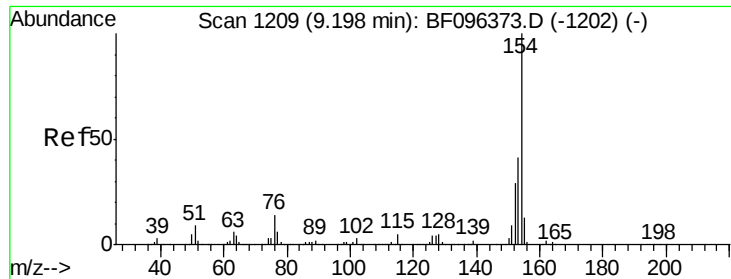
mohammad
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#44
 2-Fluorobiphenyl
 Concen: 58.357 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	527417		
171	36.0	29.6	44.4	
170	24.1	19.8	29.8	





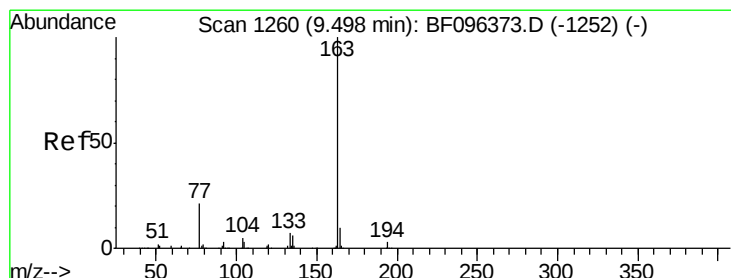
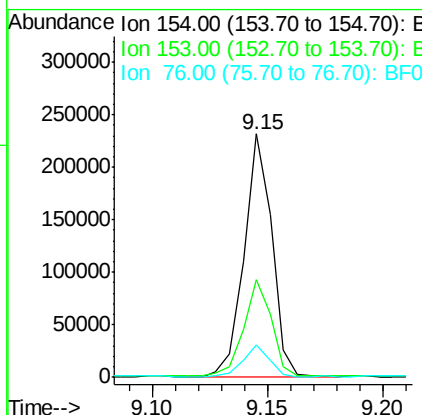
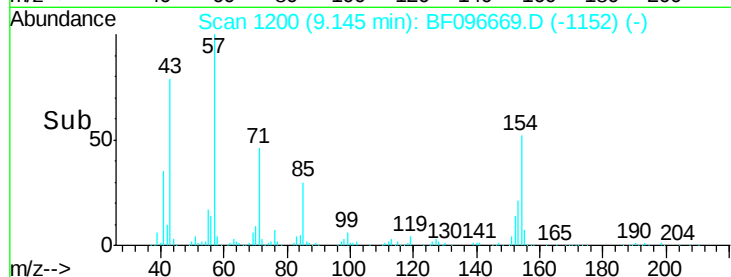
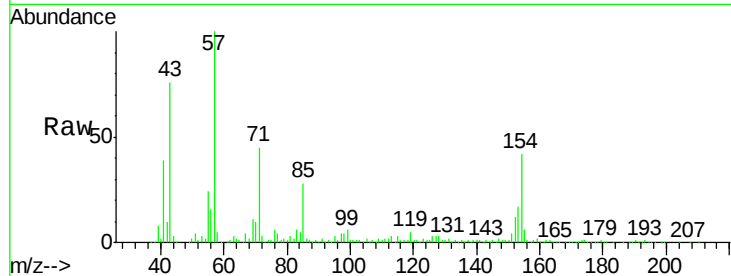
#45
 1,1'-Biphenyl
 Concen: 14.666 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Instrument :
 BNA_F
 ClientSampleId :
 E2-P8-BASE

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	40.0	21.2	61.2
76	13.3	0.0	29.9

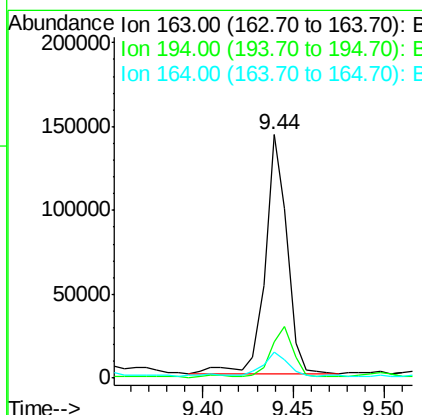
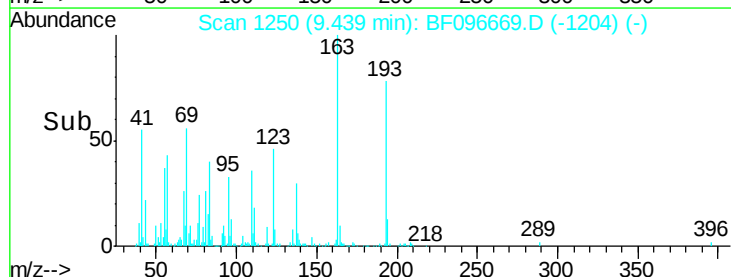
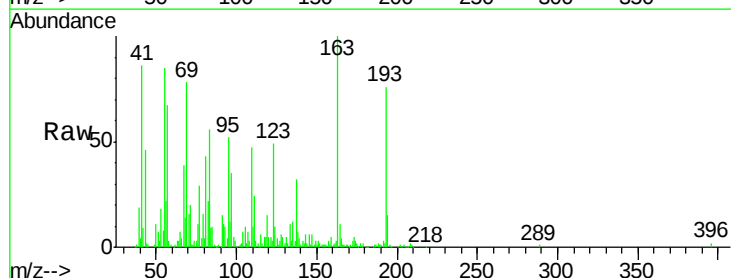
Manual Integrations
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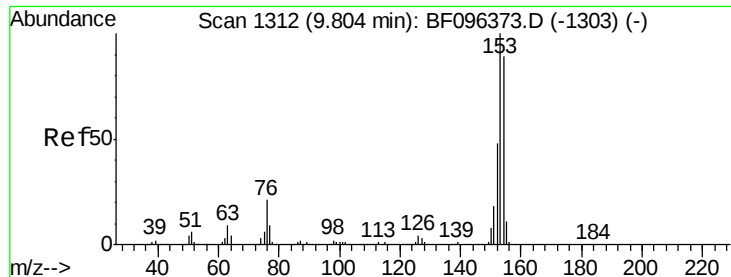
mohammad
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#49
 Dimethylphthalate
 Concen: 10.415 ng
 RT: 9.44 min Scan# 1250
 Delta R.T. -0.03 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	15.1	2.6	4.0#
164	10.9	8.4	12.6





#51

Acenaphthene

Concen: 19.215 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Instrument :

BNA_F

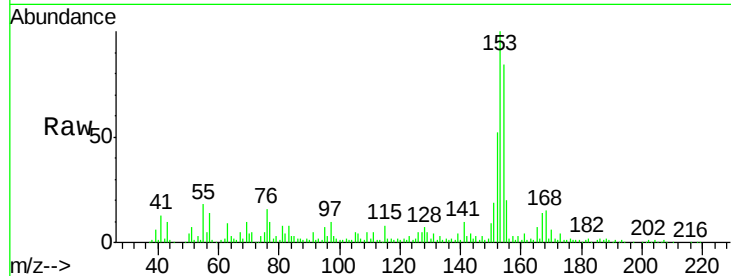
ClientSampleId :

E2-P8-BASE

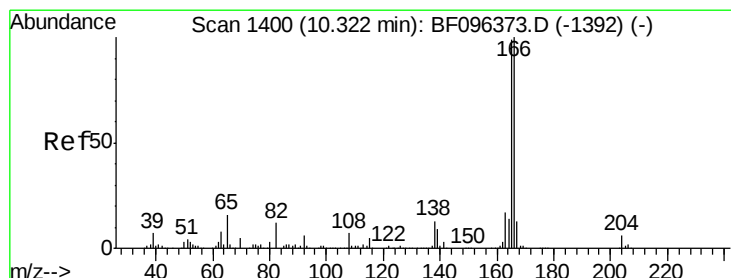
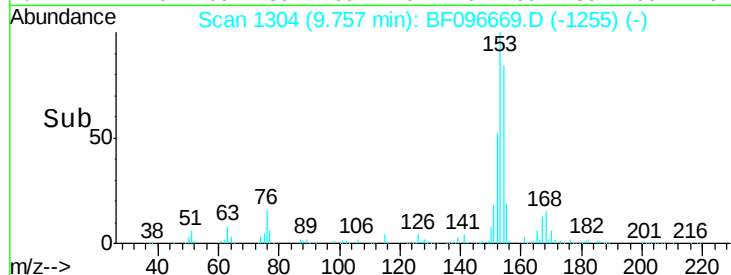
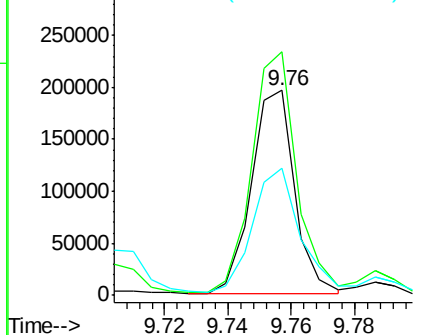
Tgt Ion:	154	Resp:	185181
Ion Ratio	Lower	Upper	
154	100		
153	118.8	90.5	135.7
152	61.8	43.6	65.4

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 15.129 ng

RT: 10.27 min Scan# 1391

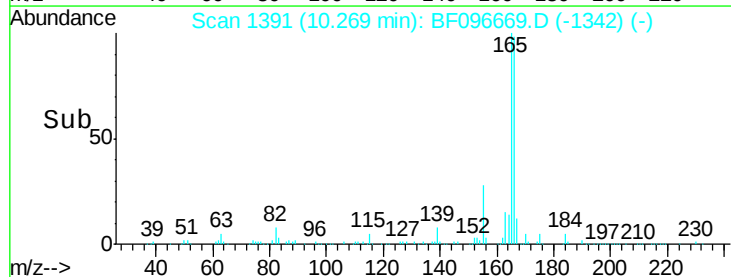
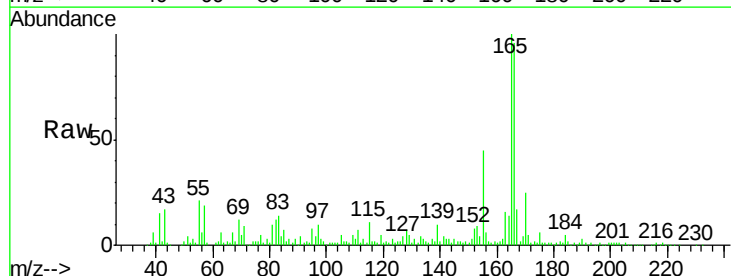
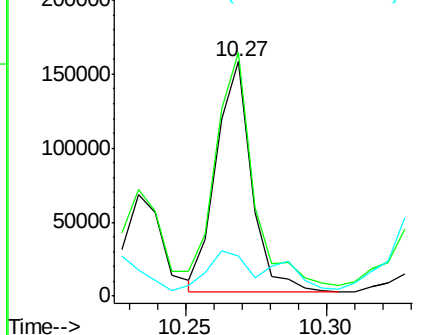
Delta R.T. -0.01 min

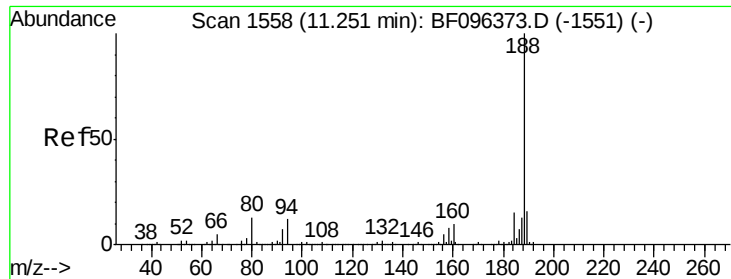
Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Tgt Ion:	166	Resp:	135950
Ion Ratio	Lower	Upper	
166	100		
165	104.0	78.8	118.2
167	17.2	10.6	16.0#

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





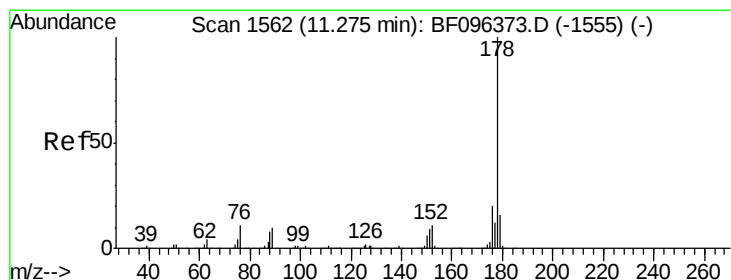
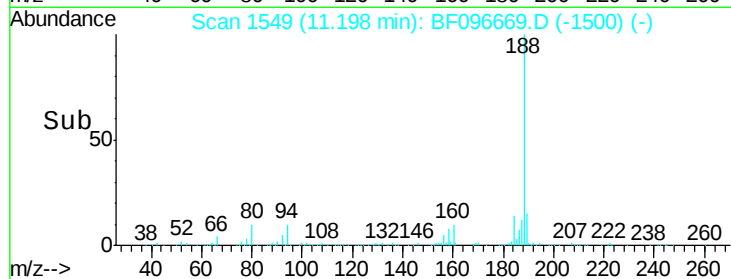
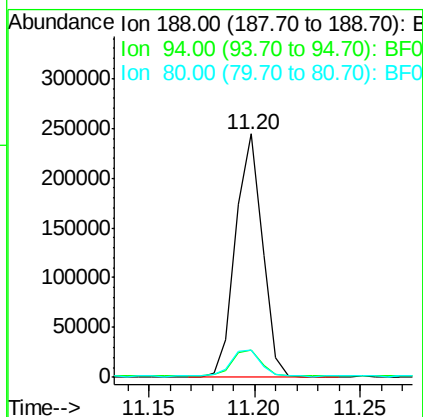
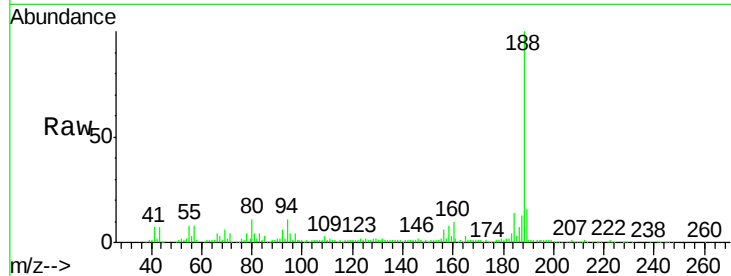
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1549
Delta R.T. -0.01 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Instrument :
BNA_F
ClientSampleId :
E2-P8-BASE

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	213267		
94	11.0	9.4	14.2	
80	11.0	10.2	15.2	

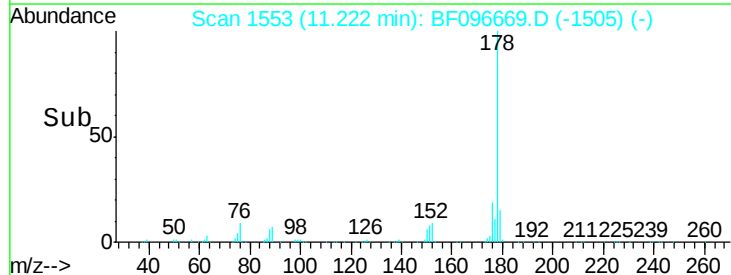
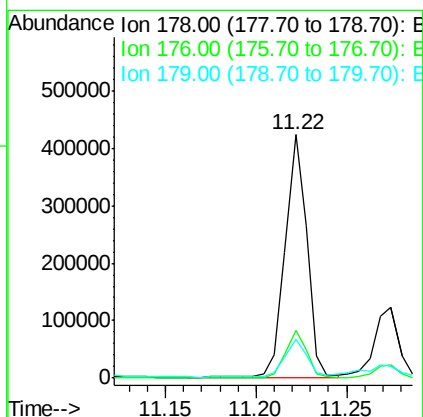
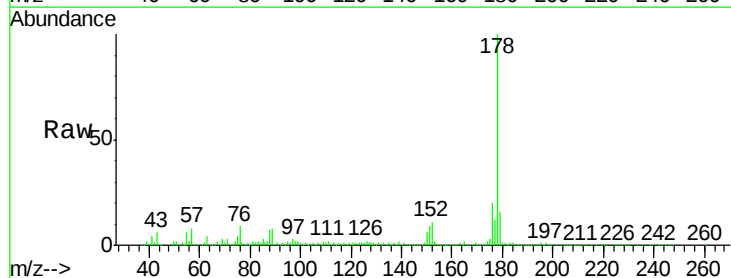
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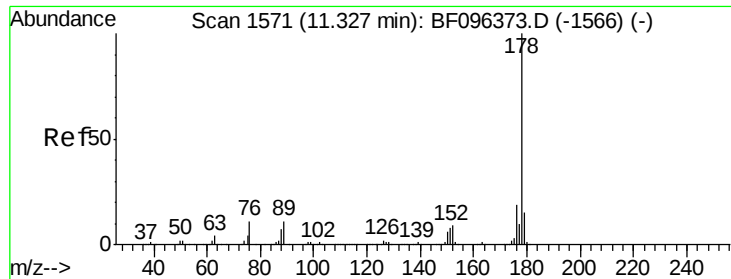
mohammad
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#70
Phenanthrene
Concen: 30.747 ng
RT: 11.22 min Scan# 1553
Delta R.T. -0.02 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	354479		
176	19.6	16.2	24.4	
179	16.0	12.6	19.0	





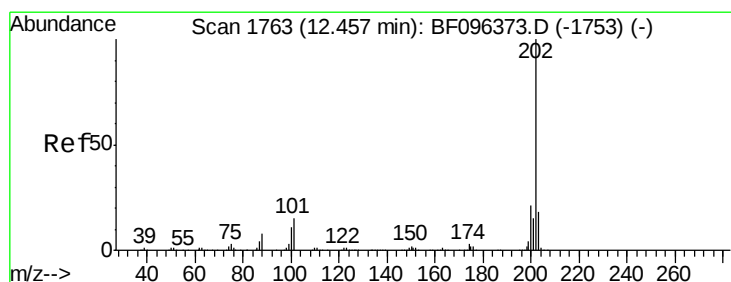
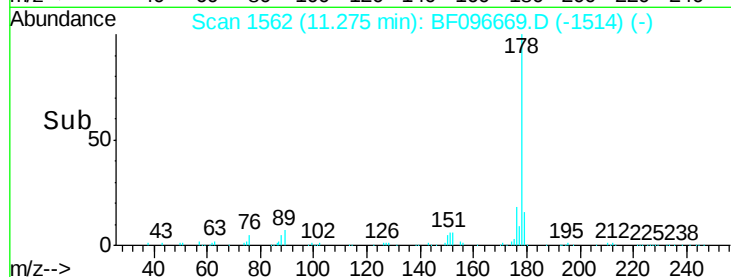
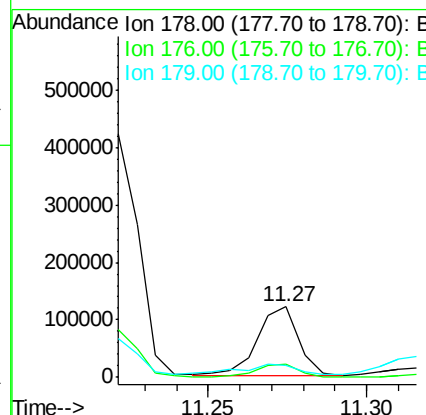
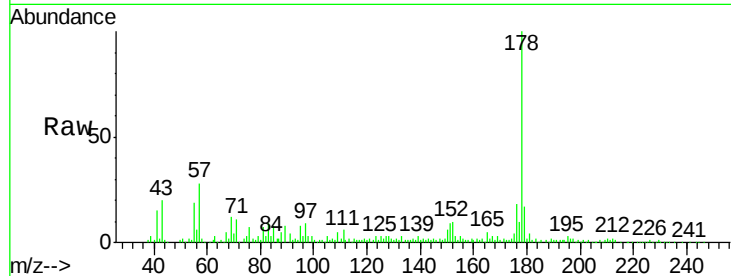
#71
 Anthracene
 Concen: 9.042 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. -0.02 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Instrument :
 BNA_F
 ClientSampleId :
 E2-P8-BASE

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.8	23.8
179	17.2	12.7	19.1

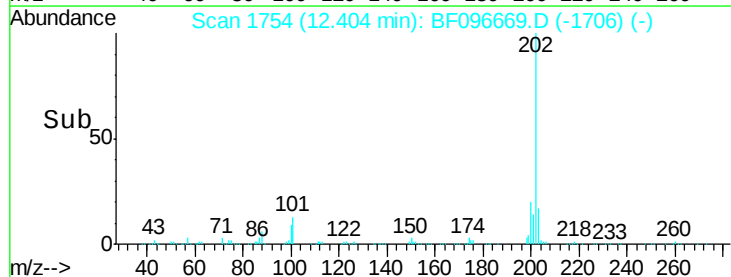
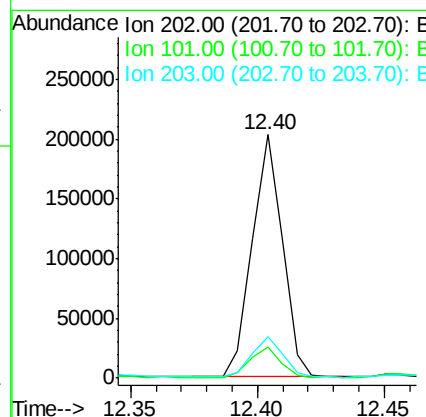
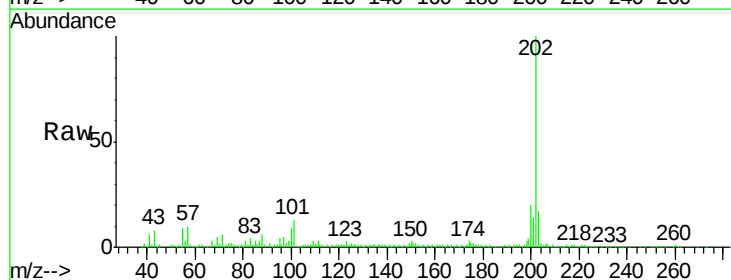
Manual Integrations
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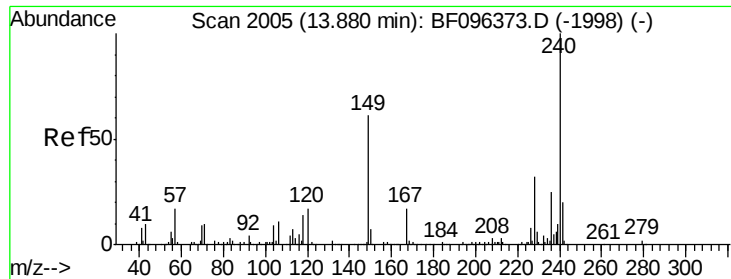
mohammad
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#74
 Fluoranthene
 Concen: 15.010 ng
 RT: 12.40 min Scan# 1754
 Delta R.T. -0.02 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	33.2
203	17.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Instrument :

BNA_F

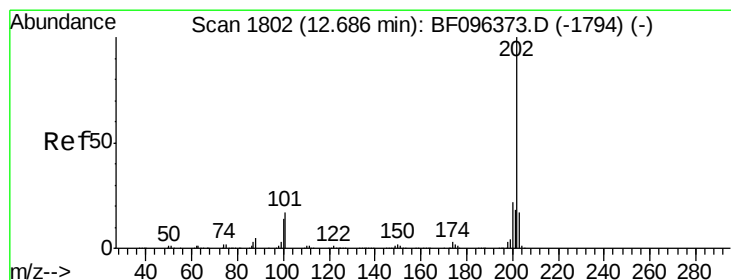
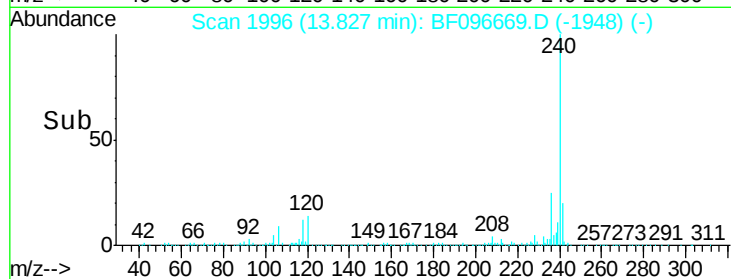
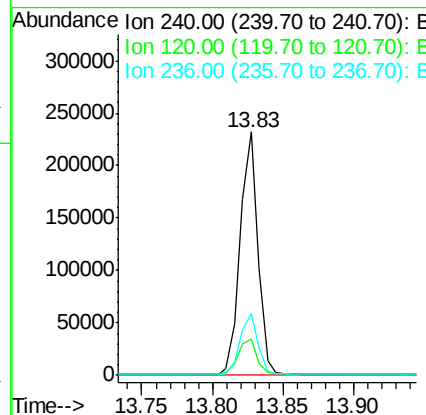
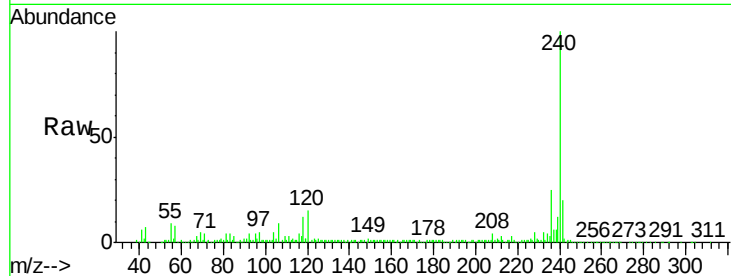
ClientSampleId :

E2-P8-BASE

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	202313		
120	14.7	5.8	8.8#	
236	25.5	20.5	30.7	

Manual Integrations
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#77

Pyrene

Concen: 10.040 ng

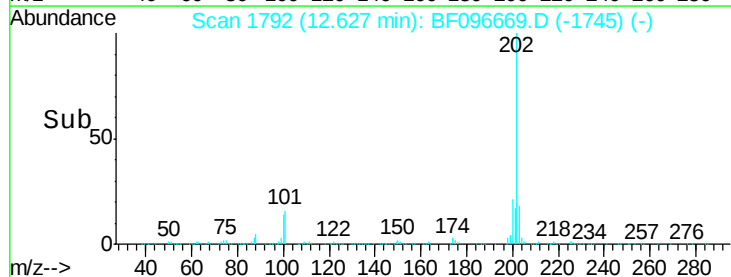
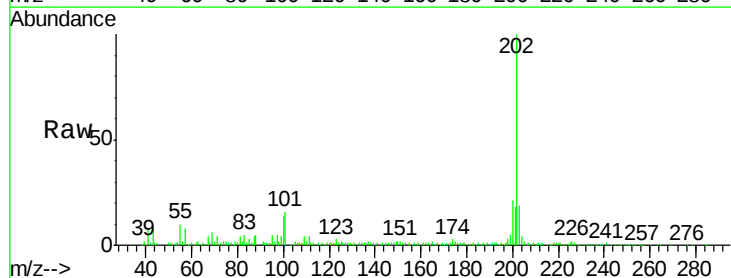
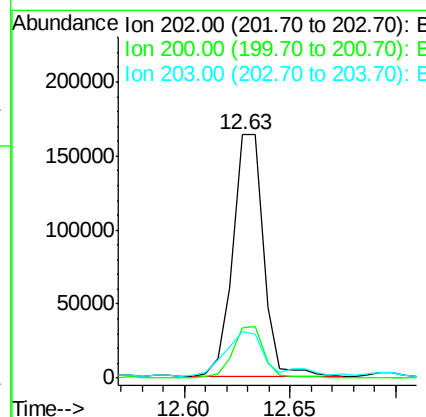
RT: 12.63 min Scan# 1792

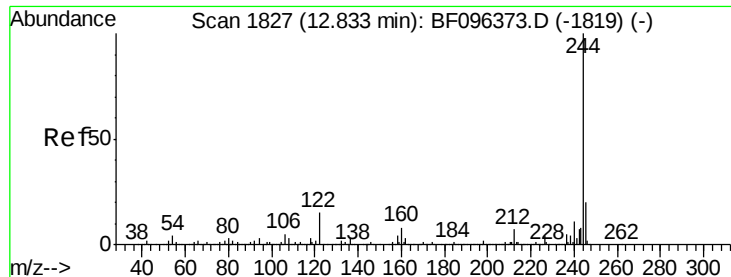
Delta R.T. -0.02 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	163040		
200	20.8	17.6	26.4	
203	19.1	14.4	21.6	





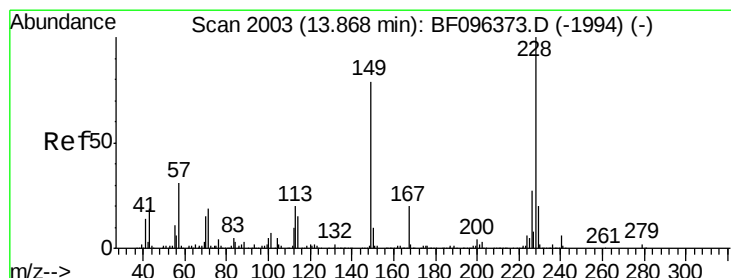
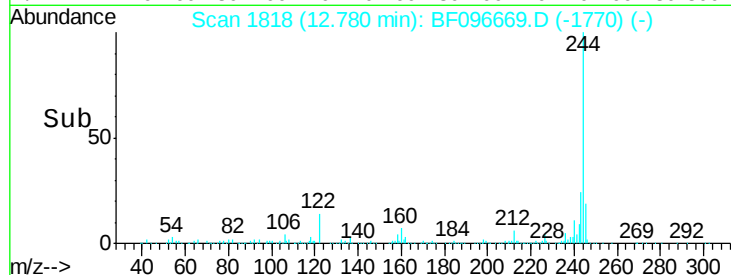
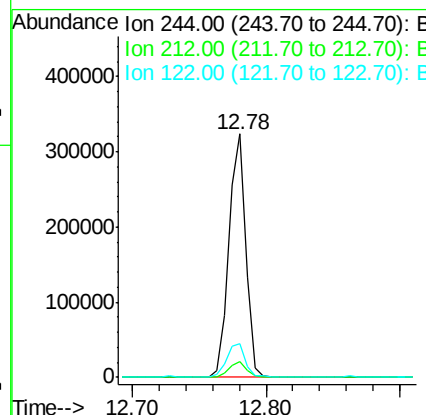
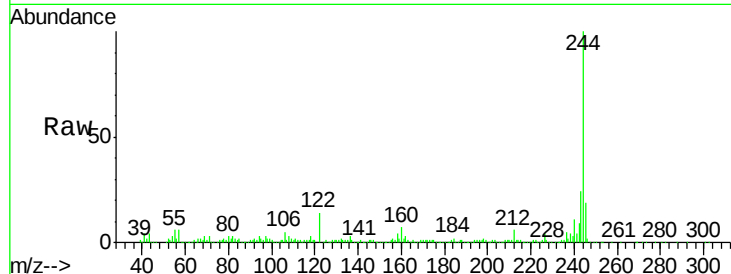
#78
 Terphenyl-d14
 Concen: 30.723 ng
 RT: 12.78 min Scan# 1818
 Delta R.T. -0.02 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Instrument :
 BNA_F
 ClientSampleId :
 E2-P8-BASE

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	6.0	9.0
122	14.0	10.3	15.5

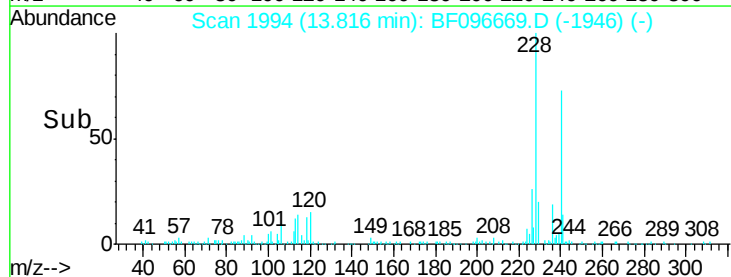
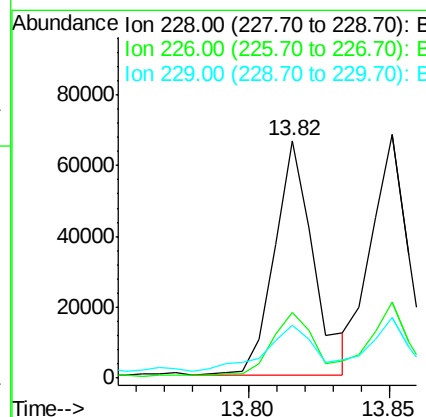
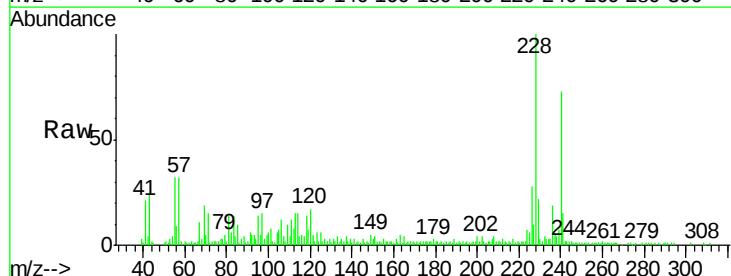
Manual Integrations
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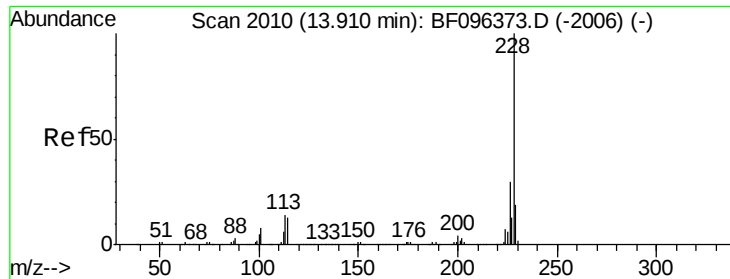
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#80
 Benzo(a)anthracene
 Concen: 5.391 ng
 RT: 13.82 min Scan# 1994
 Delta R.T. -0.02 min
 Lab File: BF096669.D
 Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.6	33.8
229	22.3	16.3	24.5





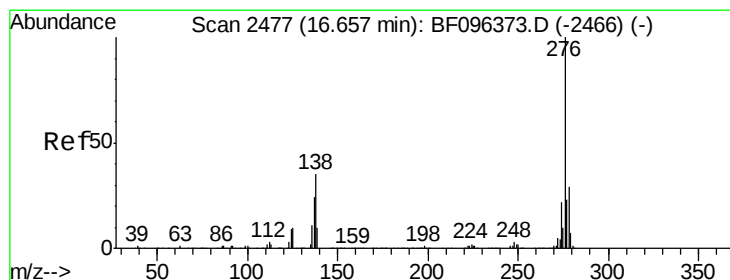
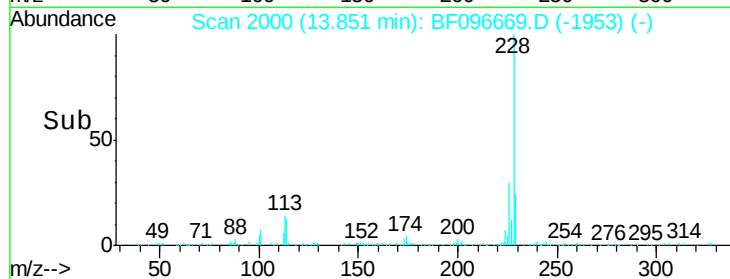
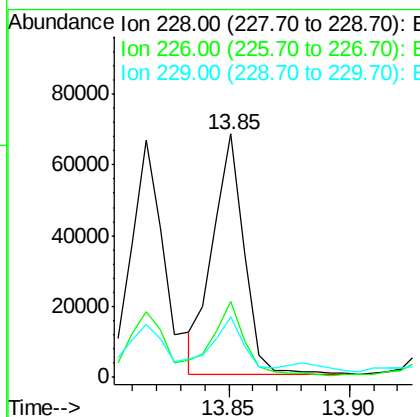
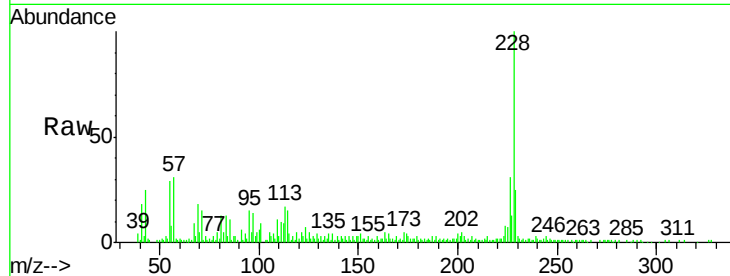
#82
Chrysene
Concen: 5.064 ng m
RT: 13.85 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Instrument :
BNA_F
ClientSampleId :
E2-P8-BASE

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	62130		
226	31.2	24.9	37.3	
229	25.1	15.8	23.6	

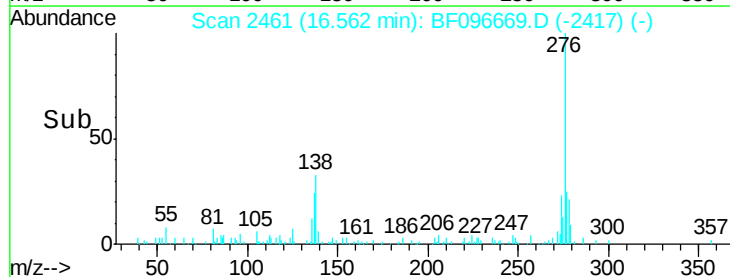
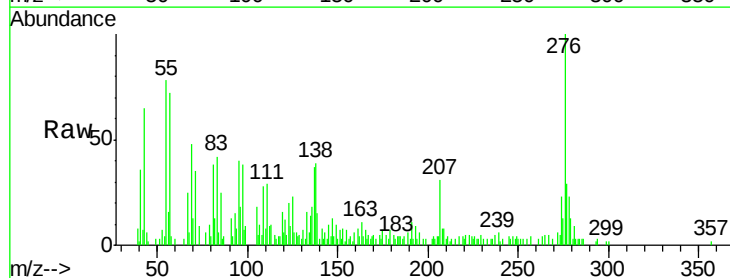
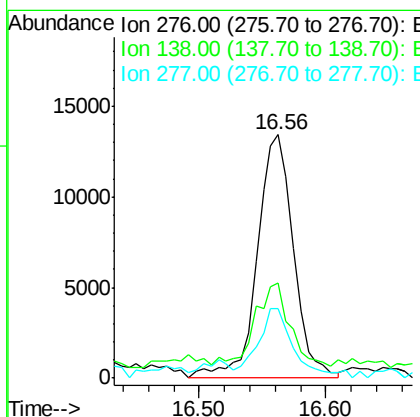
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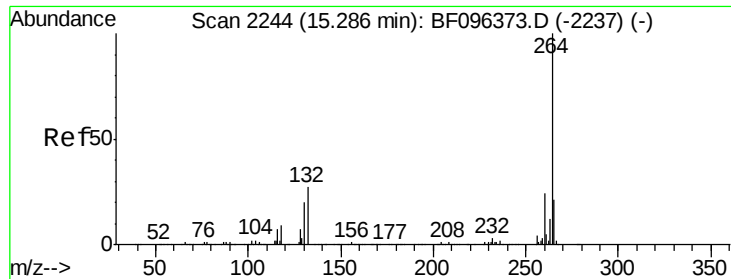
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 2.759 ng
RT: 16.56 min Scan# 2461
Delta R.T. -0.04 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	26718		
138	34.2	27.8	41.6	
277	28.8	20.2	30.4	





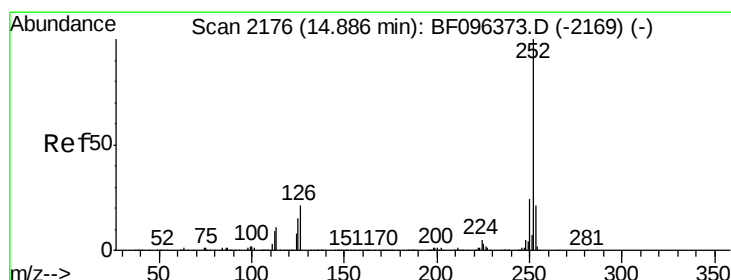
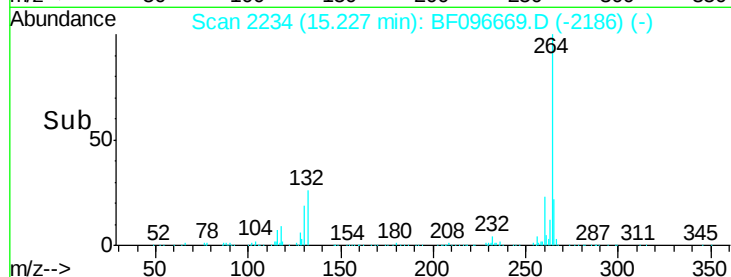
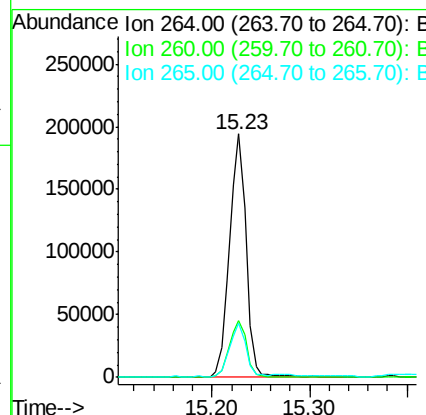
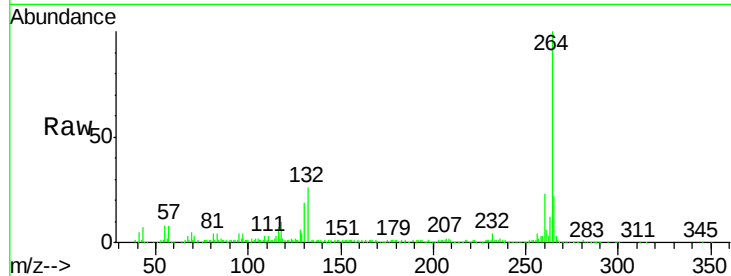
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.23 min Scan# 2234
Delta R.T. -0.02 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Instrument :
BNA_F
ClientSampleId :
E2-P8-BASE

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	231362		
260	23.4	19.5	29.3	
265	22.0	17.2	25.8	

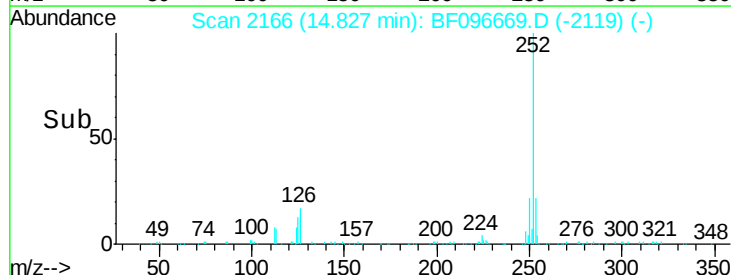
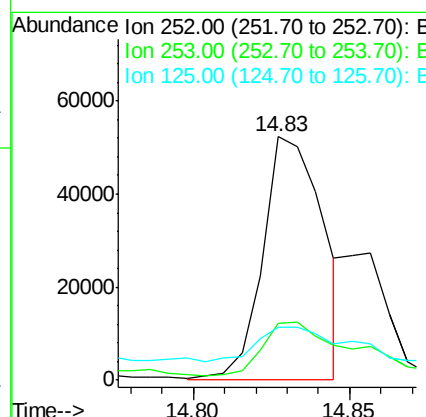
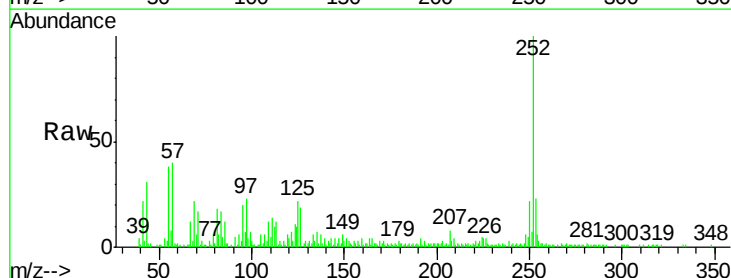
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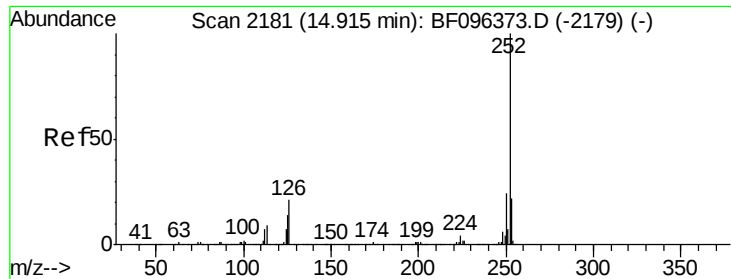
mohammad
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#87
Benzo(b)fluoranthene
Concen: 4.825 ng m
RT: 14.83 min Scan# 2166
Delta R.T. -0.02 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	69944		
253	23.3	18.1	27.1	
125	21.9	9.8	14.8#	





#88

Benzo(k)fluoranthene

Concen: 2.012 ng m

RT: 14.86 min Scan# 2171

Delta R.T. -0.02 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Instrument :

BNA_F

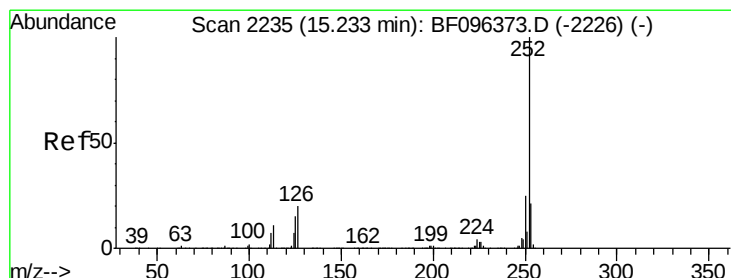
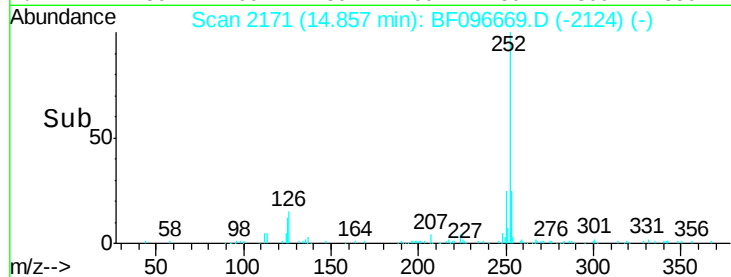
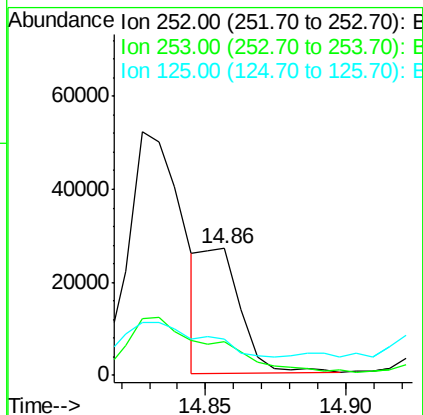
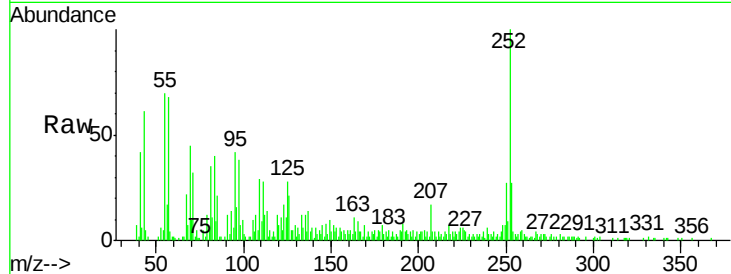
ClientSampleId :

E2-P8-BASE

Tgt Ion:	252	Resp:	26088
Ion Ratio	Lower	Upper	
252	100		
253	26.8	18.4	27.6
125	28.1	13.1	19.7#

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#89

Benzo(a)pyrene

Concen: 3.719 ng

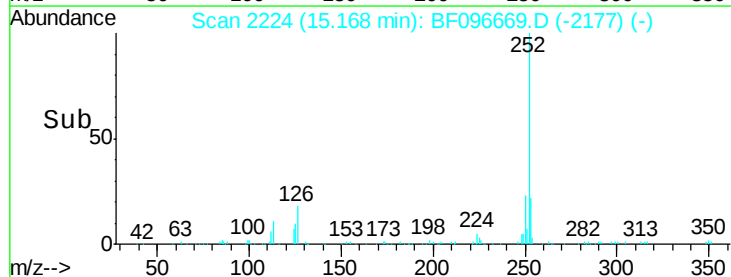
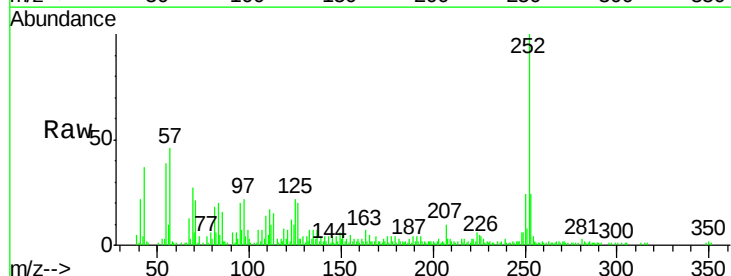
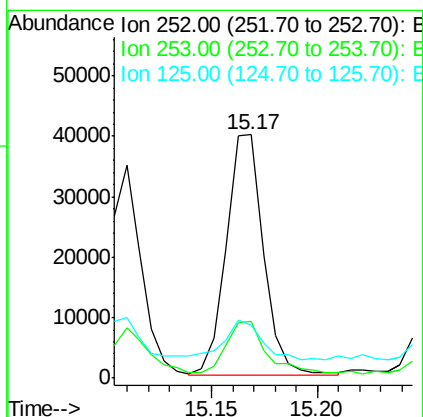
RT: 15.17 min Scan# 2224

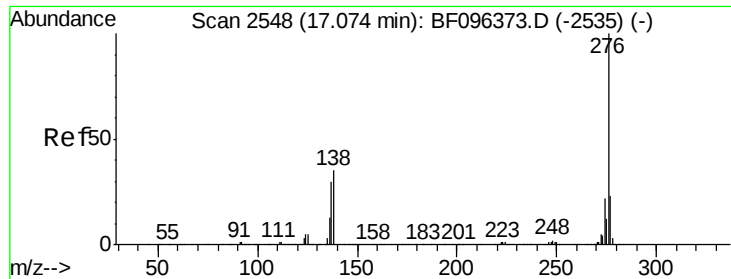
Delta R.T. -0.02 min

Lab File: BF096669.D

Acq: 12 Jul 2017 3:45

Tgt Ion:	252	Resp:	48130
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.5	26.3
125	21.6	11.0	16.4#





#91
Benzo(g,h,i)perylene
Concen: 2.162 ng
RT: 16.96 min Scan# 2528
Delta R.T. -0.05 min
Lab File: BF096669.D
Acq: 12 Jul 2017 3:45

Instrument :
BNA_F
ClientSampleId :
E2-P8-BASE

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	24.7	18.6	28.0
138	42.8	25.4	38.0

Manual Integrations
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