

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
 Data File : BF096007.D
 Acq On : 19 Jun 2017 15:40
 Operator : SJ/MA
 Sample : I3683-02 50X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CC-5A

Manual Integrations
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Quant Time: Jun 19 17:52:25 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 16 17:12:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.30	152	86020	20.00	ng	-0.02
21) Naphthalene-d8	9.33	136	345411	20.00	ng	-0.02
38) Acenaphthene-d10	12.15	164	149426	20.00	ng	-0.03
63) Phenanthrene-d10	14.54	188	238735	20.00	ng	-0.02
75) Chrysene-d12	18.27	240	146762	20.00	ng	-0.02
86) Perylene-d12	19.94	264	149258	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	1315	0.24	ng	0.24
7) Phenol-d6	7.08	99	2887	0.45	ng	0.17
23) Nitrobenzene-d5	8.35	82	2819	0.51	ng	0.10
41) 2,4,6-Tribromophenol	13.49	330	1283	0.97	ng	0.01
44) 2-Fluorobiphenyl	11.12	172	14547	1.35	ng	-0.02
78) Terphenyl-d14	16.93	244	9882	1.67	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	9.37	128	314243	18.13	ng	99
37) 2-Methylnaphthalene	10.50	142	71598	6.11	ng	95
51) Acenaphthene	12.20	154	72976	7.68	ng	99
54) Dibenzofuran	12.50	168	139274	10.41	ng	96
57) Fluorene	13.04	166	156848	13.48	ng	98
70) Phenanthrene	14.59	178	894361	64.93	ng	98
71) Anthracene	14.67	178	276278	19.21	ng	95
72) Carbazole	14.98	167	115515	8.24	ng	95
74) Fluoranthene	16.37	202	620875	45.54	ng	99
77) Pyrene	16.67	202	456918	41.73	ng	# 94
80) Benzo(a)anthracene	18.26	228	195492	22.91	ng	95
82) Chrysene	18.31	228	154830	18.16	ng	98
85) Indeno(1,2,3-cd)pyrene	21.11	276	80397	11.02	ng	94
87) Benzo(b)fluoranthene	19.54	252	194400	20.80	ng	# 97
88) Benzo(k)fluoranthene	19.57	252	63408m	7.10	ng	
89) Benzo(a)pyrene	19.89	252	145475	16.94	ng	97
90) Dibenzo(a,h)anthracene	21.11	278	23822	3.27	ng	# 92
91) Benzo(g,h,i)perylene	21.44	276	65568	8.83	ng	95

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

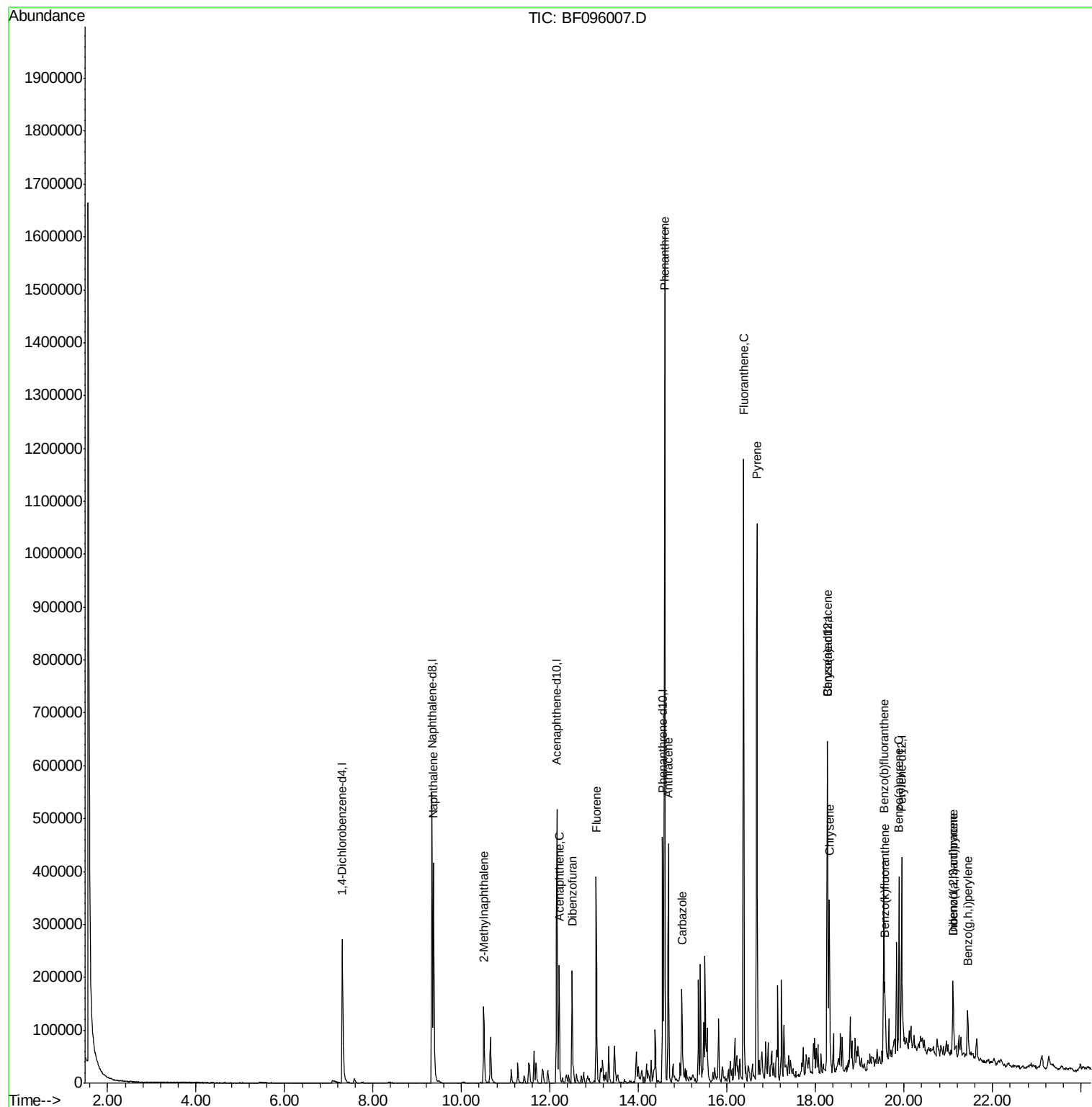
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
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ALS Vial : 10 Sample Multiplier: 1

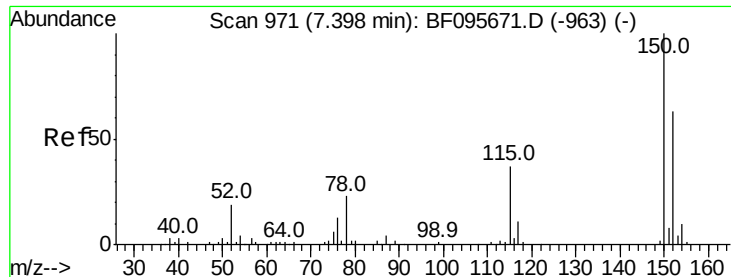
Instrument :
BNA_F
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CC-5A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

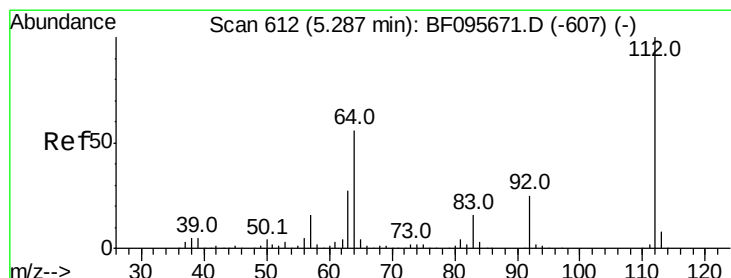
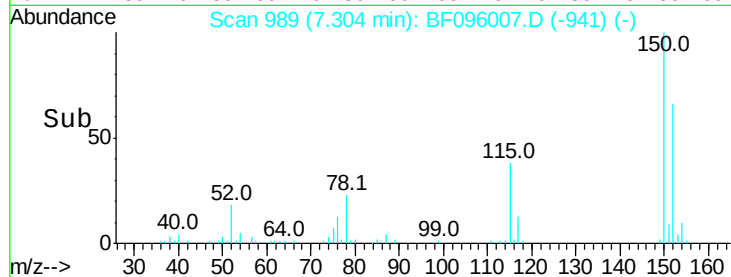
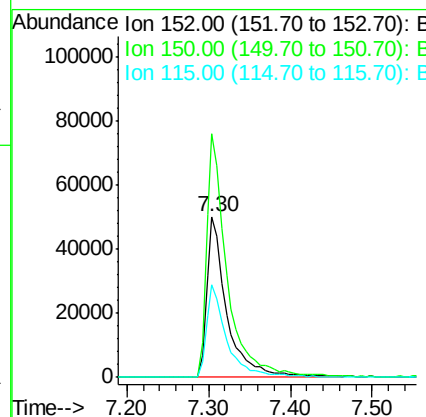
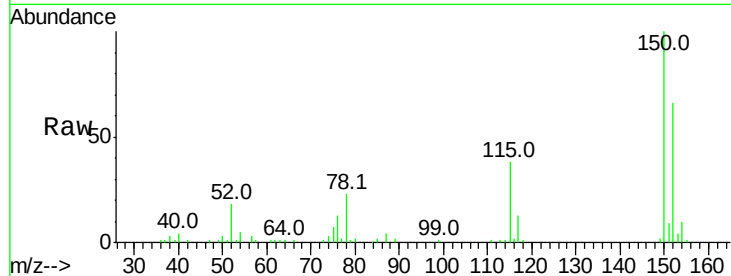
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.30 min Scan# 989
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Instrument :
BNA_F
ClientSampled :
CC-5A

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.3	126.2	189.2
115	57.7	52.2	78.2

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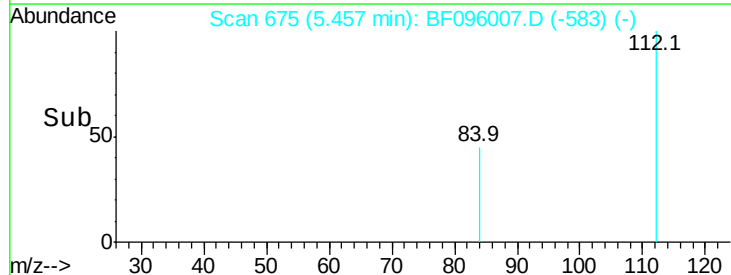
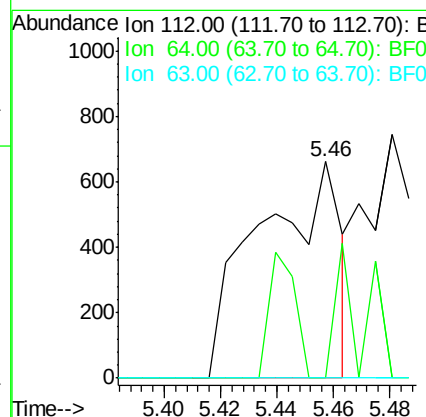
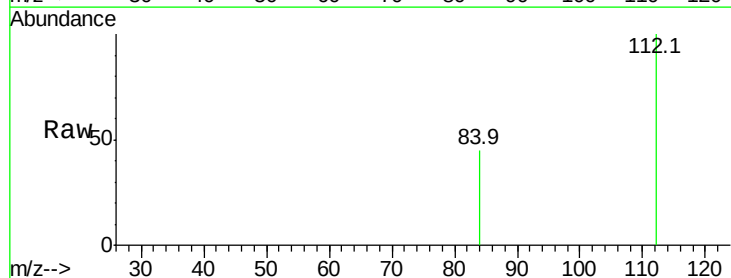
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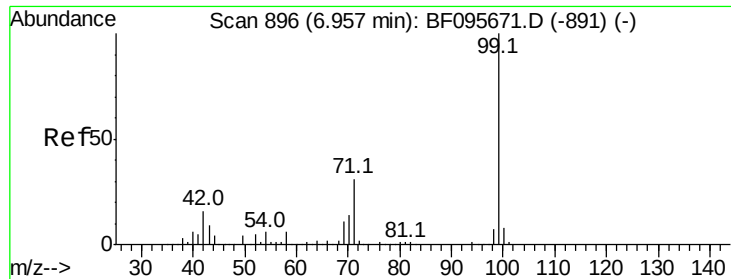


#5

2-Fluorophenol
Concen: 0.24 ng
RT: 5.46 min Scan# 675
Delta R.T. 0.24 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	0.0	46.0	69.0#
63	0.0	23.4	35.0#





#7

Phenol-d6

Concen: 0.45 ng

RT: 7.08 min Scan# 951

Delta R.T. 0.17 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Instrument :

BNA_F

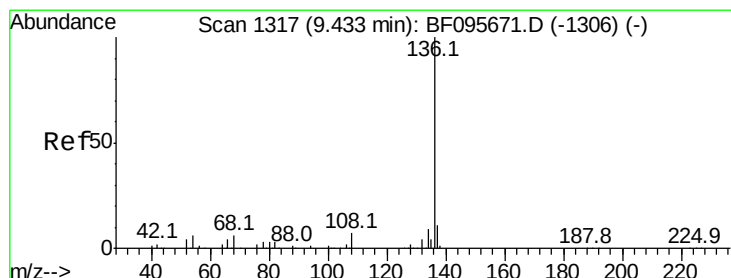
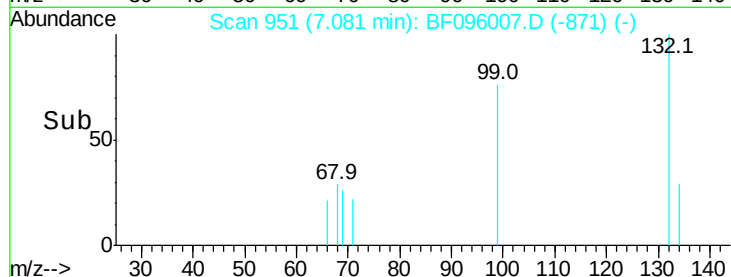
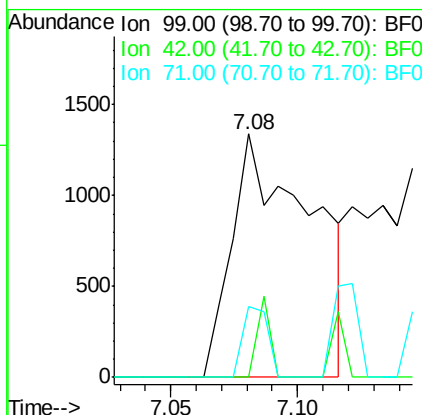
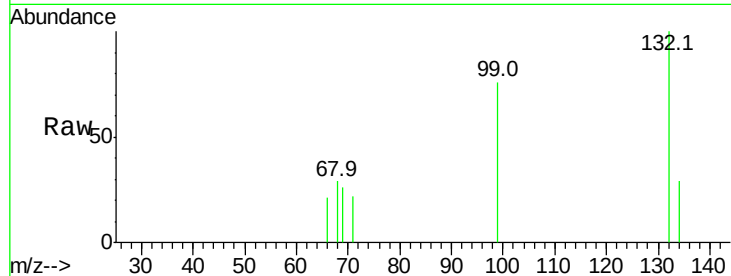
ClientSampleId :

CC-5A

Tot Ion:	99	Resp:	2887
Ion Ratio	Lower	Upper	
99	100		
42	0.0	13.5	20.3#
71	29.2	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

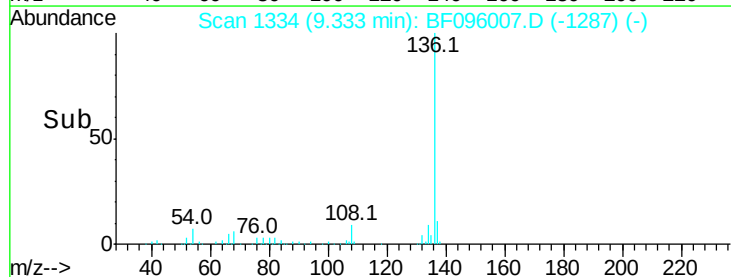
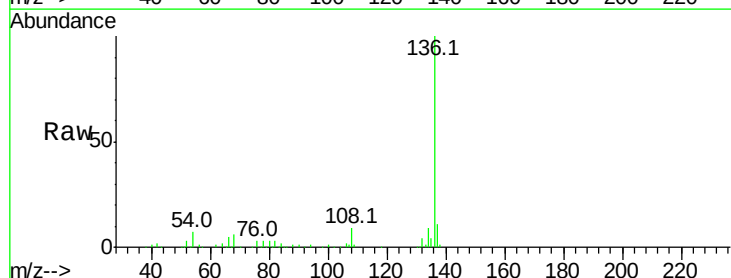
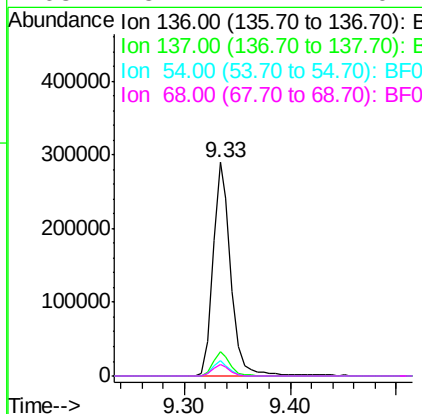
RT: 9.33 min Scan# 1334

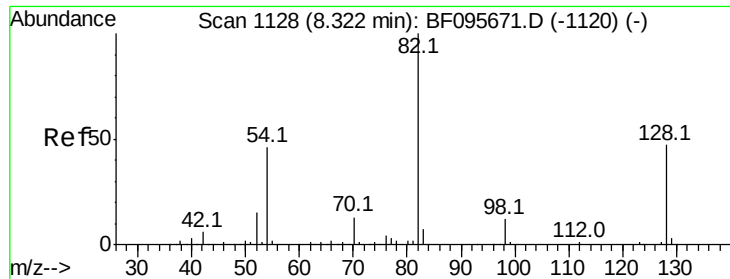
Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Tgt Ion:	136	Resp:	345411
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	7.0	4.9	7.3
68	5.7	4.1	6.1





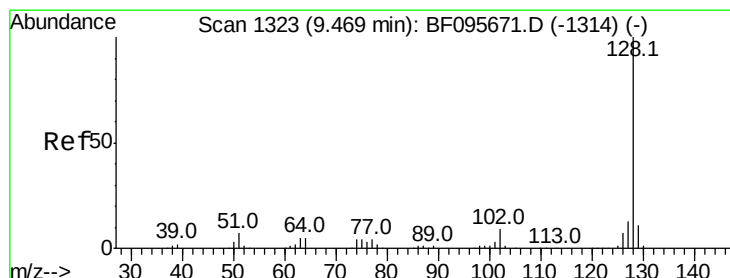
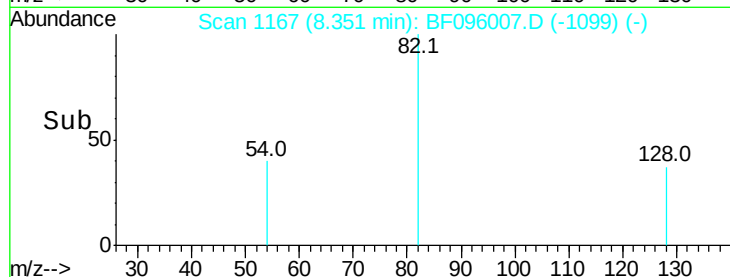
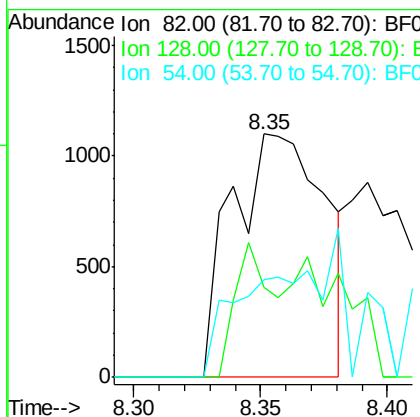
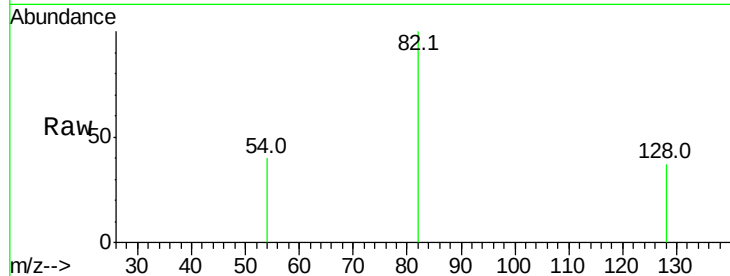
#23
Nitrobenzene-d5
Concen: 0.51 ng
RT: 8.35 min Scan# 1167
Delta R.T. 0.10 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.0	34.0	51.0
54	40.1	42.2	63.2#

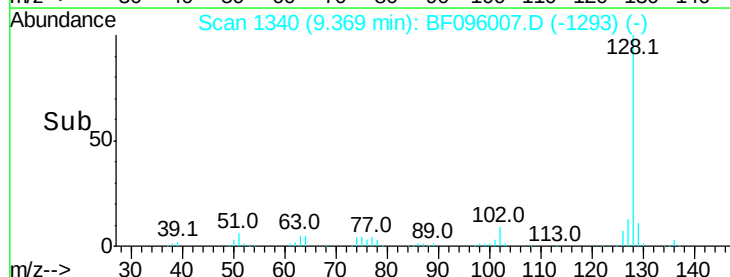
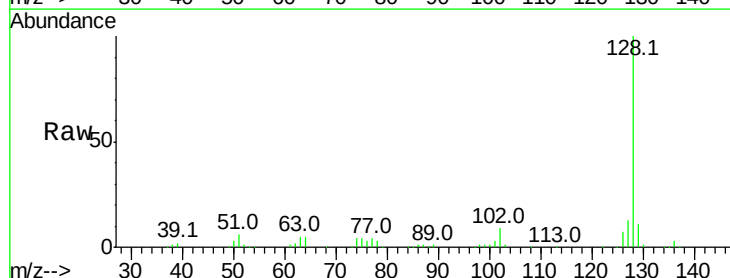
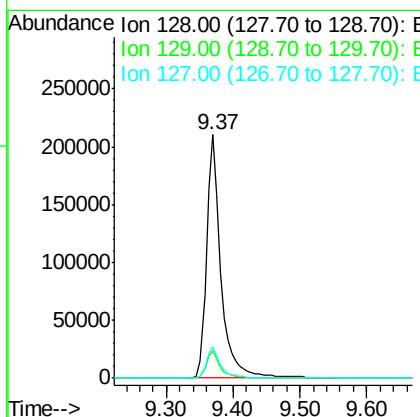
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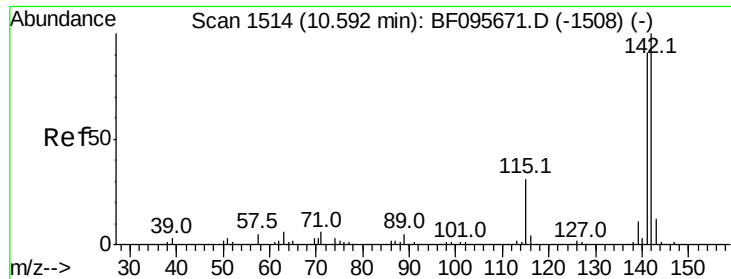
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#31
Naphthalene
Concen: 18.13 ng
RT: 9.37 min Scan# 1340
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	12.8	10.8	16.2





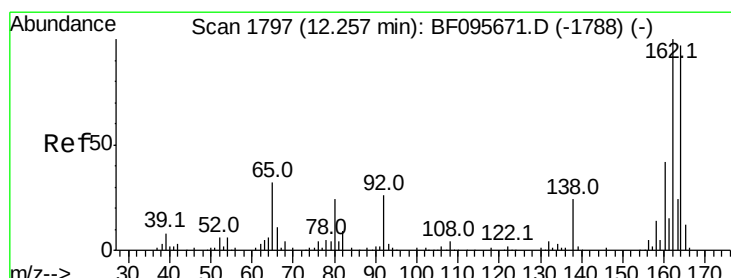
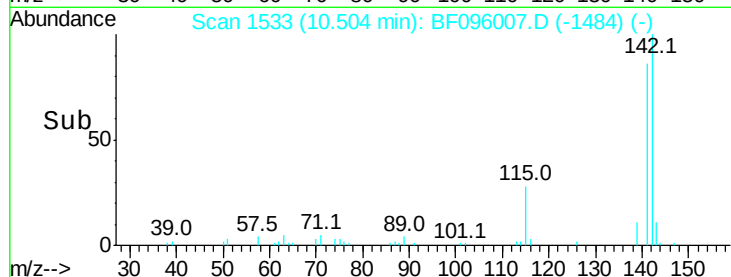
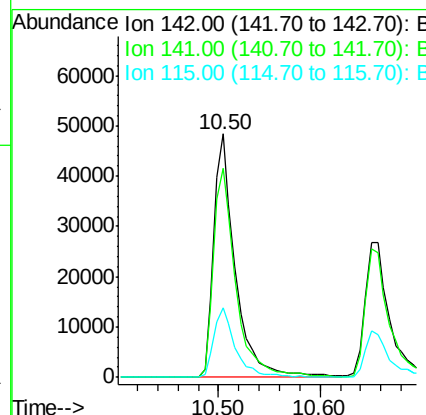
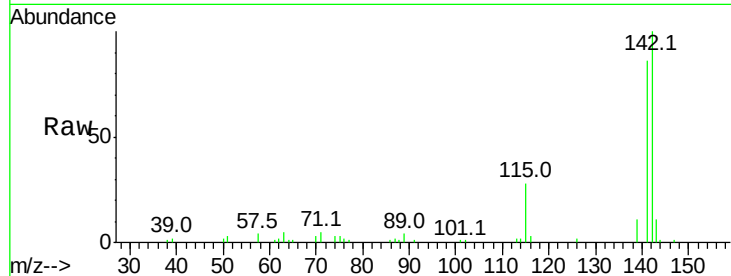
#37
2-Methylnaphthalene
Concen: 6.11 ng
RT: 10.50 min Scan# 1533
Delta R.T. -0.01 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.1	71.3	106.9
115	28.4	27.1	40.7

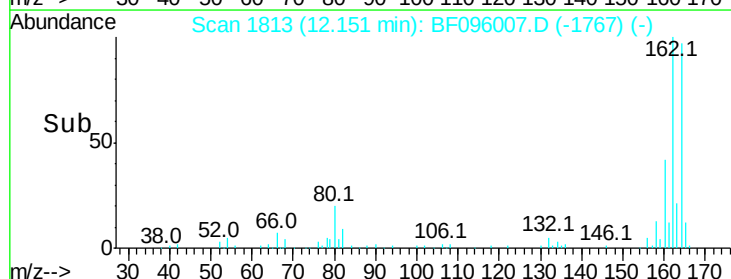
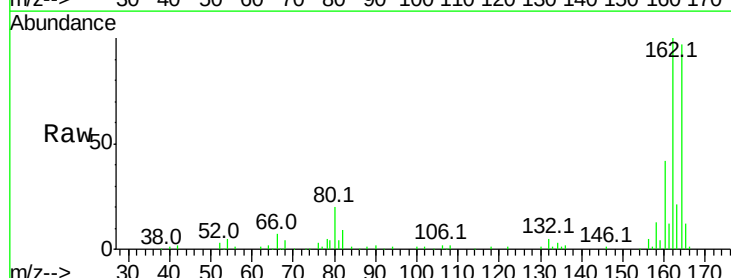
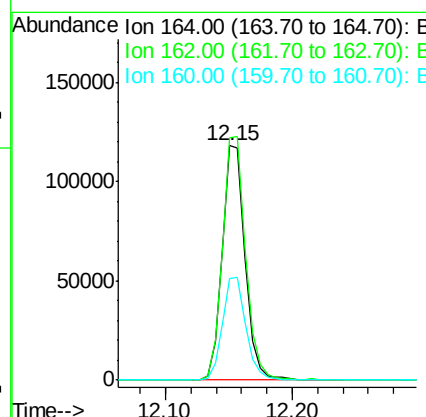
Manual Integrations
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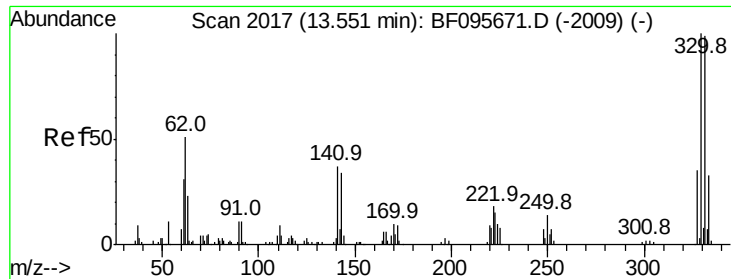
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.15 min Scan# 1813
Delta R.T. -0.03 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.6	123.8
160	43.5	36.2	54.2





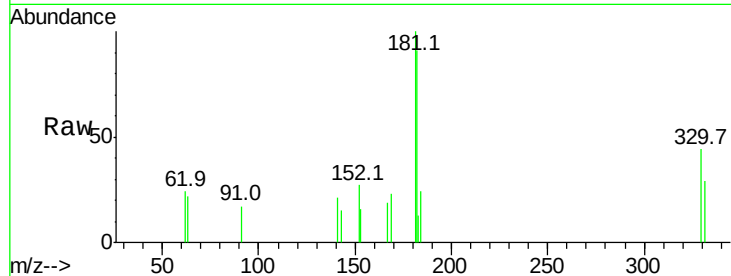
#41
 2,4,6-Tribromophenol
 Concen: 0.97 ng
 RT: 13.49 min Scan# 2041
 Delta R.T. 0.01 min
 Lab File: BF096007.D
 Acq: 19 Jun 2017 15:40

Instrument :
 BNA_F
 ClientSampled :
 CC-5A

Tot Ion	Ratio	Lower	Upper
330	100		
332	109.1	76.6	115.0
141	35.4	31.4	47.2

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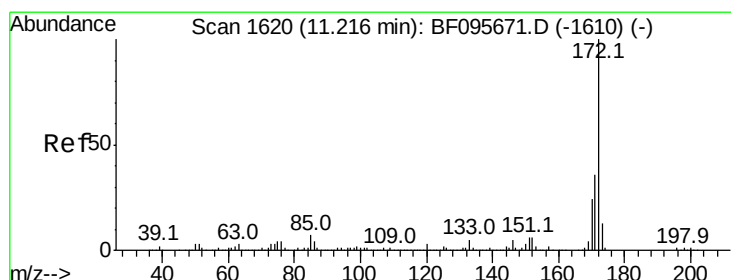
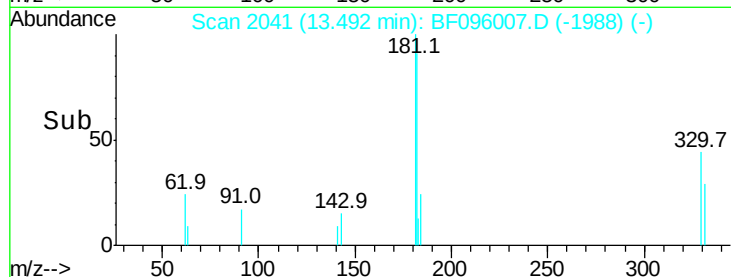
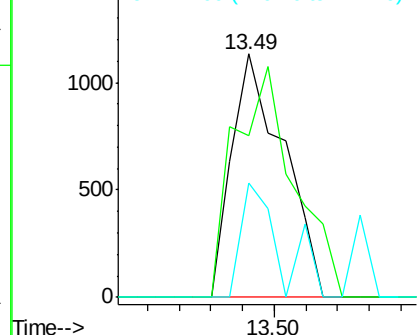


Abundance

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: 1.35 ng
 RT: 11.12 min Scan# 1638
 Delta R.T. -0.02 min
 Lab File: BF096007.D
 Acq: 19 Jun 2017 15:40

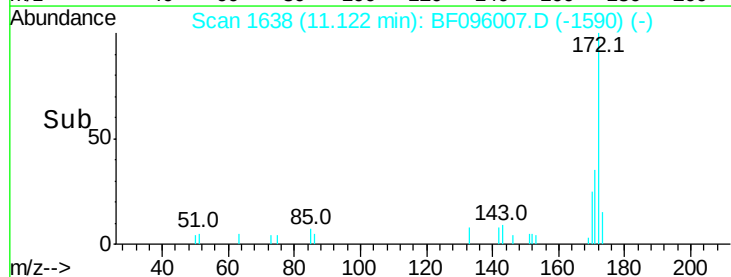
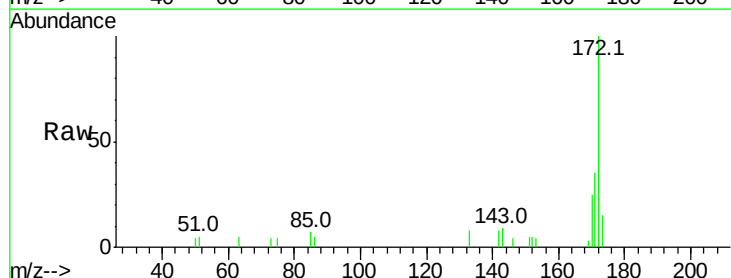
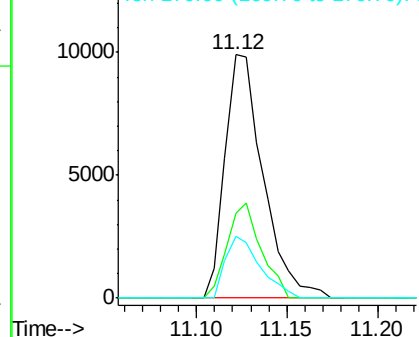
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.6	44.4
170	25.4	19.8	29.8

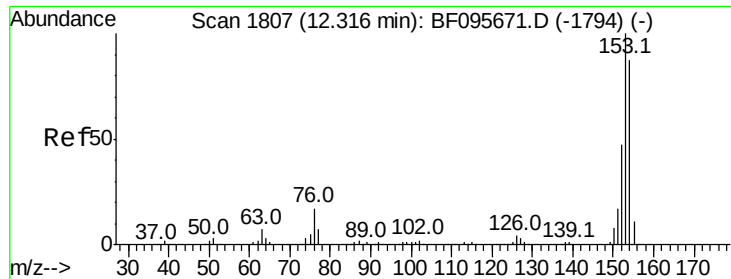
Abundance

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





#51

Acenaphthene

Concen: 7.68 ng

RT: 12.20 min Scan# 1822

Delta R.T. -0.03 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Instrument :

BNA_F

ClientSampleId :

CC-5A

Tot Ion:154 Resp: 72976

Ion Ratio Lower Upper

154 100

153 114.6 90.5 135.7

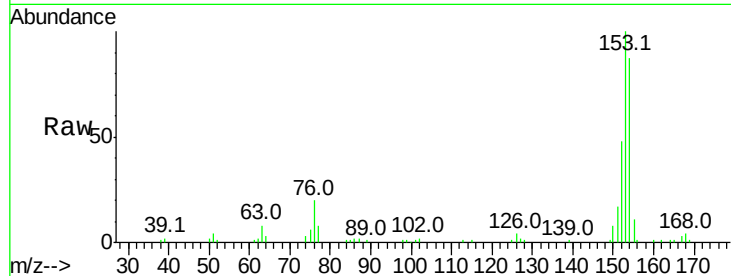
152 54.7 43.6 65.4

Manual Integrations

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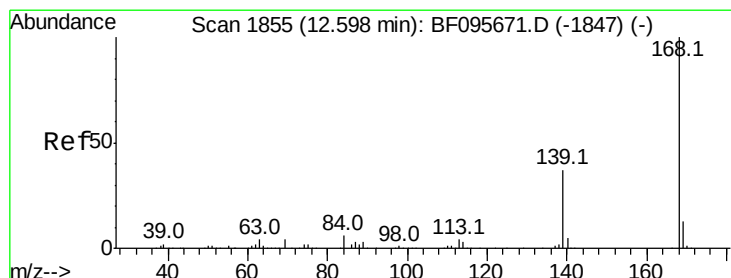
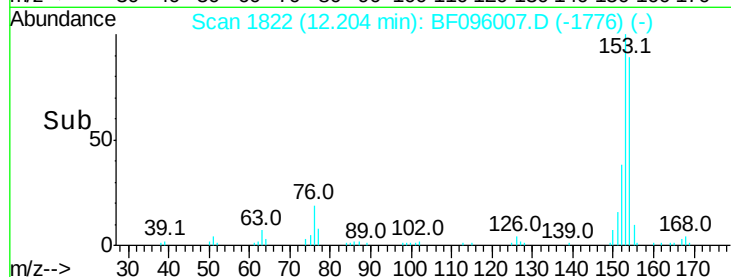
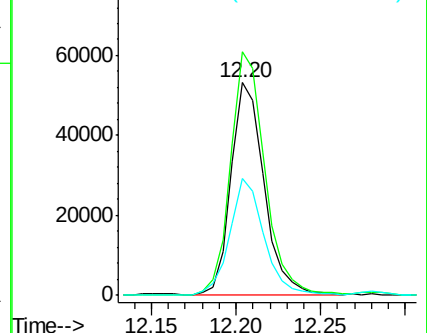
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 10.41 ng

RT: 12.50 min Scan# 1872

Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

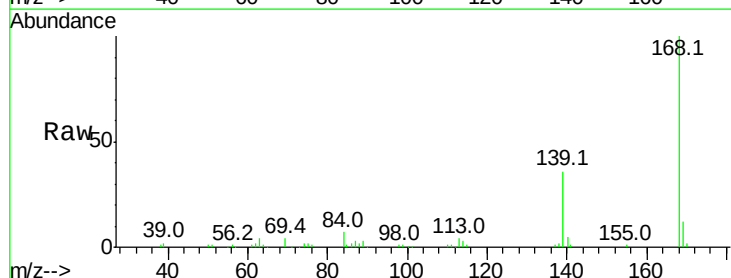
Tgt Ion:168 Resp: 139274

Ion Ratio Lower Upper

168 100

139 35.8 30.6 45.8

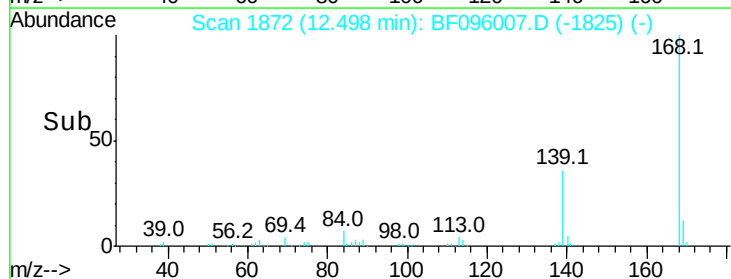
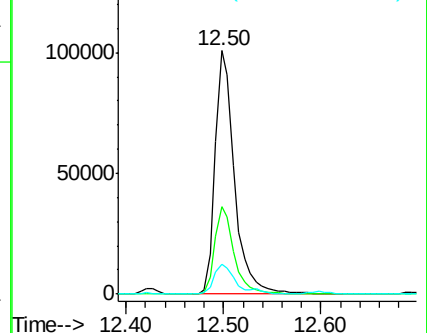
169 12.2 10.8 16.2

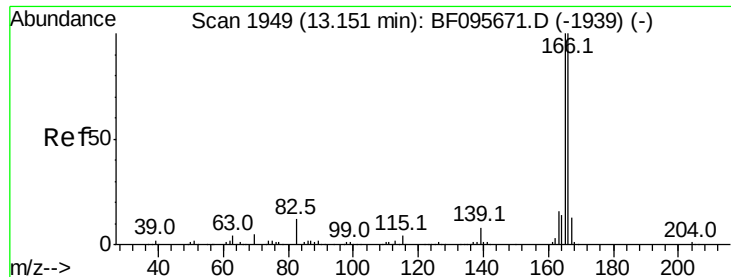


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





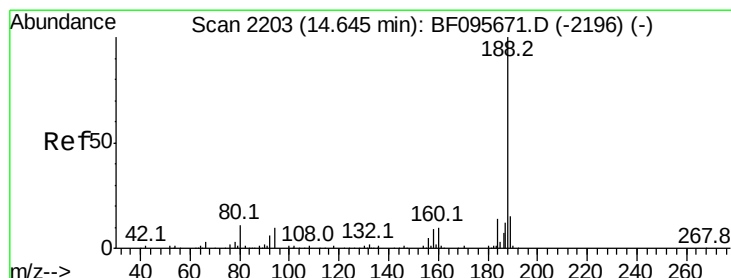
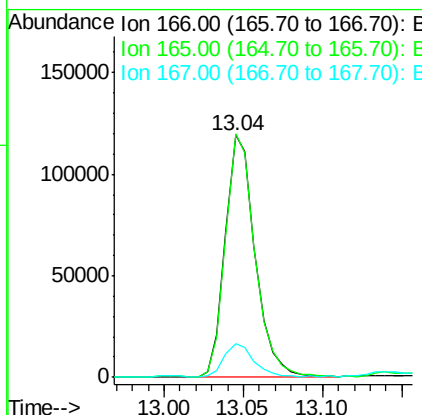
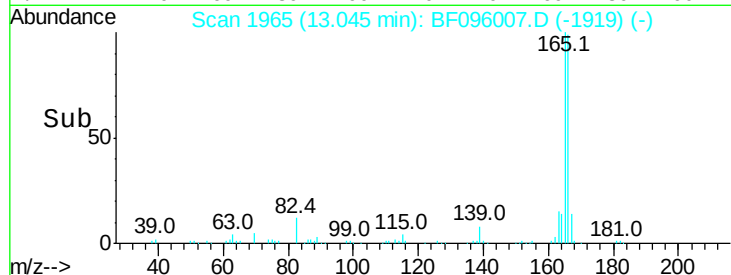
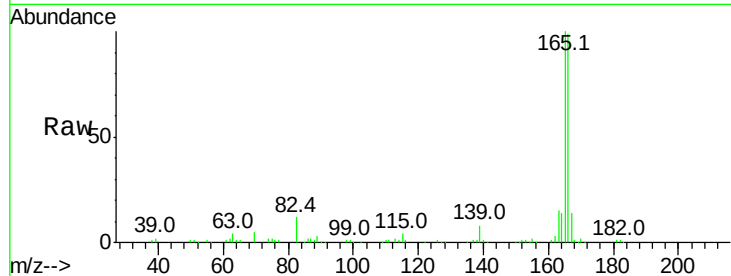
#57
Fluorene
 Concen: 13.48 ng
 RT: 13.04 min Scan# 1965
 Delta R.T. -0.03 min
 Lab File: BF096007.D
 Acq: 19 Jun 2017 15:40

Instrument :
 BNA_F
 ClientSampleId :
 CC-5A

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.7	78.8	118.2
167	13.8	10.6	16.0

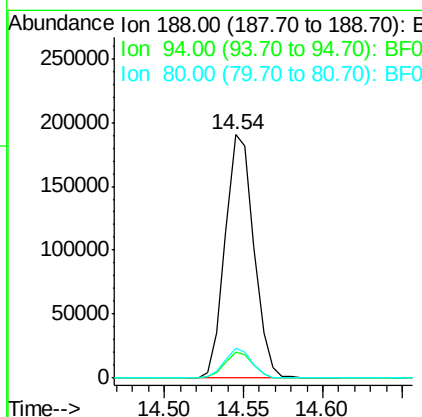
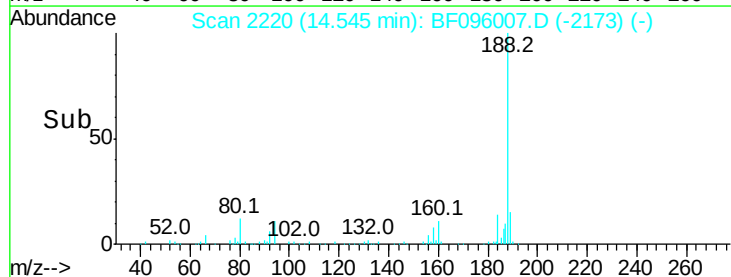
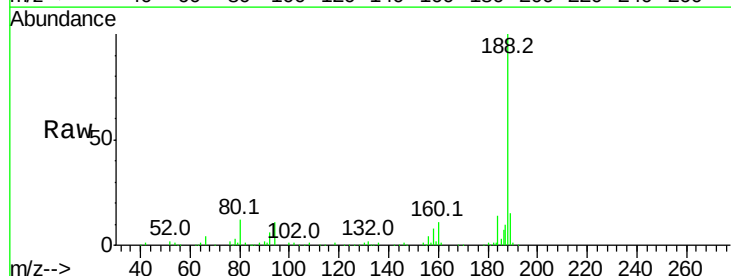
Manual Integrations
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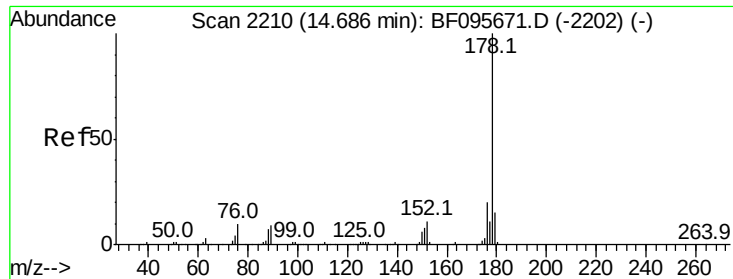
mohammad
 6/20/2017 4:28:48 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.54 min Scan# 2220
 Delta R.T. -0.02 min
 Lab File: BF096007.D
 Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.7	9.4	14.2
80	12.0	10.2	15.2





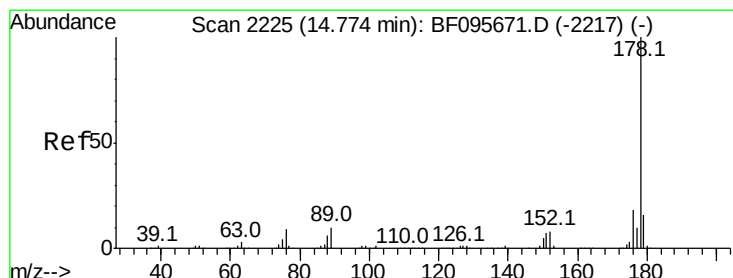
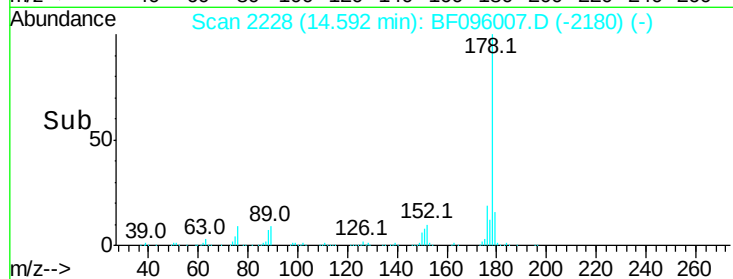
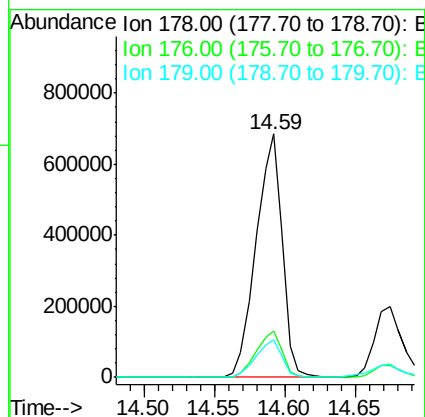
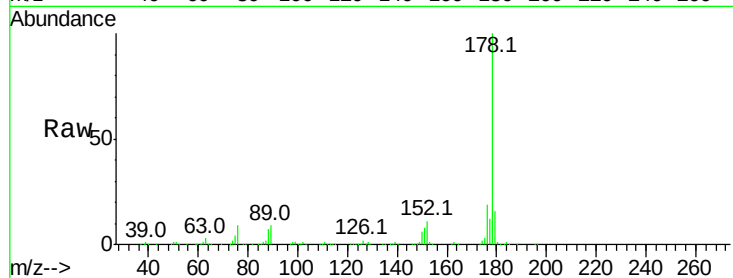
#70
Phenanthrene
Concen: 64.93 ng
RT: 14.59 min Scan# 2228
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Instrument :
BNA_F
ClientSampled :
CC-5A

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	16.2	24.4
179	15.5	12.6	19.0

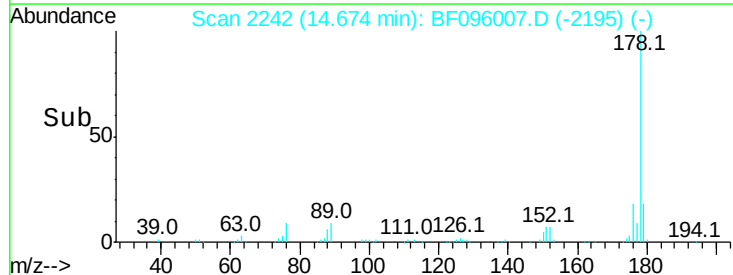
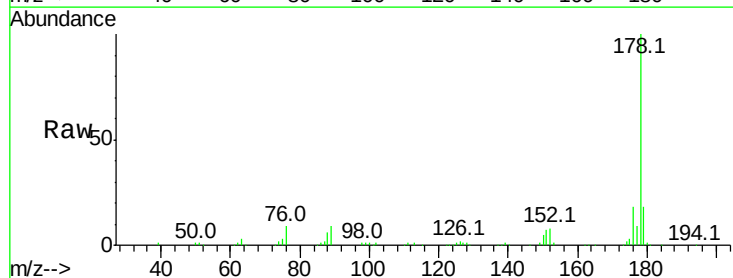
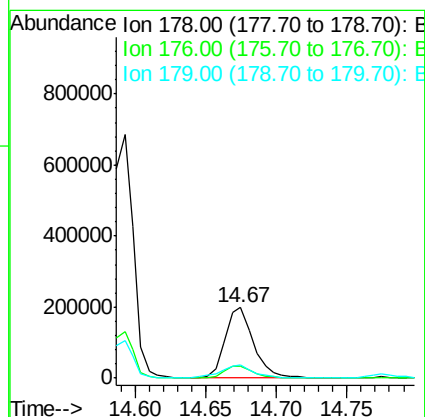
Manual Integrations
APPROVED

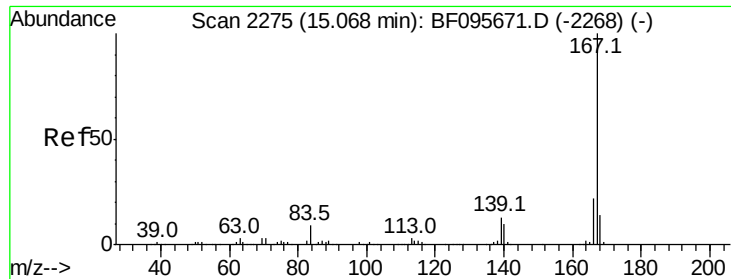
mohammad
6/20/2017 4:28:48 PM



#71
Anthracene
Concen: 19.21 ng
RT: 14.67 min Scan# 2242
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.8	23.8
179	18.2	12.7	19.1





#72

Carbazole

Concen: 8.24 ng

RT: 14.98 min Scan# 2294

Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Instrument :

BNA_F

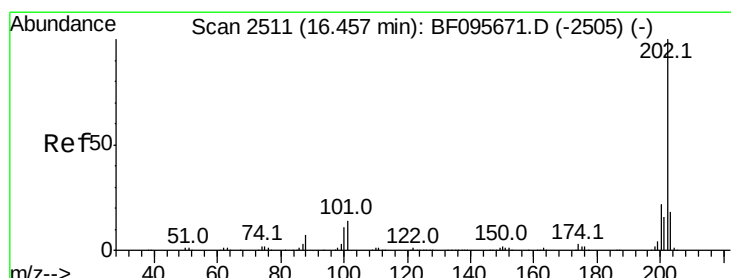
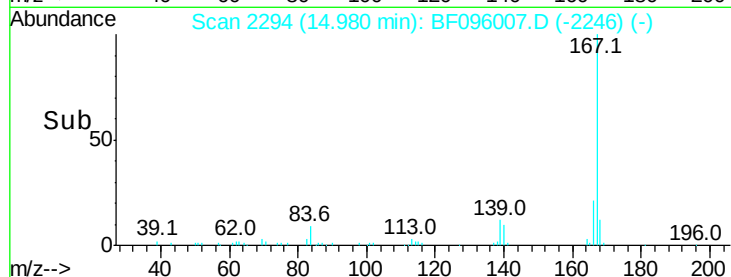
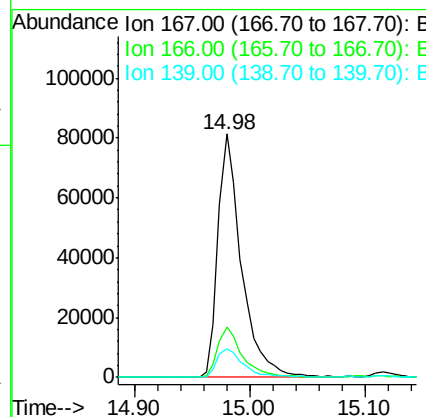
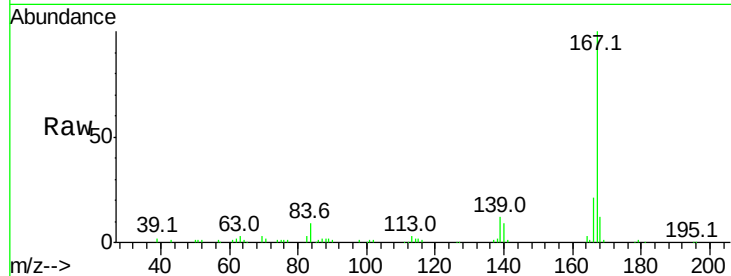
ClientSampled :

CC-5A

Tot Ion:	167	Resp:	115515
Ion Ratio	Lower	Upper	
167	100		
166	20.9	18.1	27.1
139	12.0	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 45.54 ng

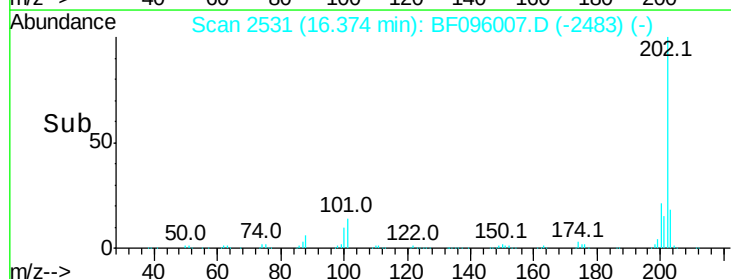
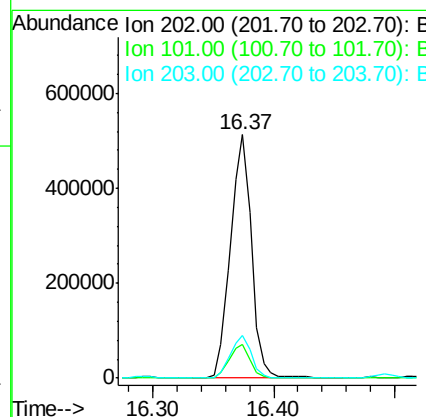
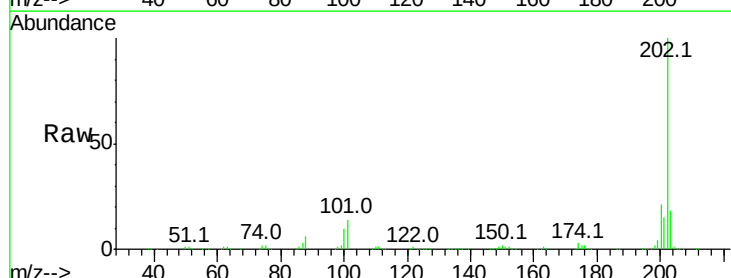
RT: 16.37 min Scan# 2531

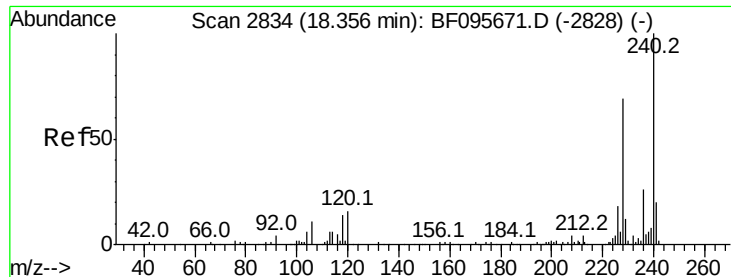
Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Tgt Ion:	202	Resp:	620875
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	33.2
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.27 min Scan# 2854

Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Instrument :

BNA_F

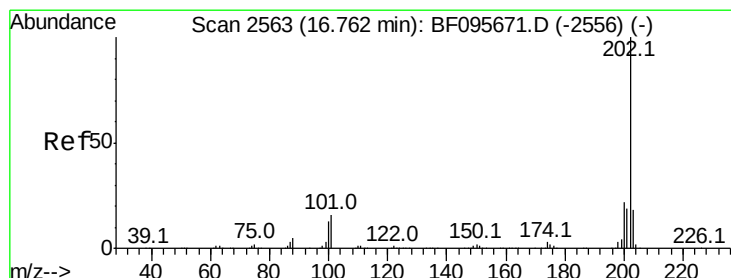
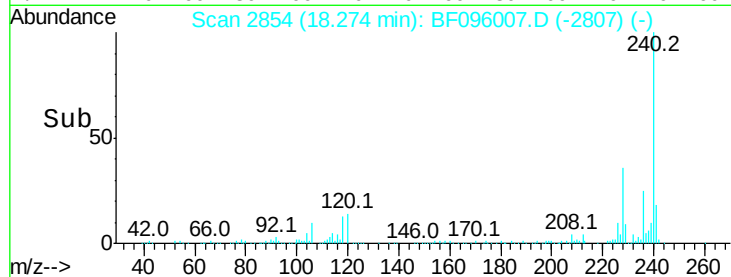
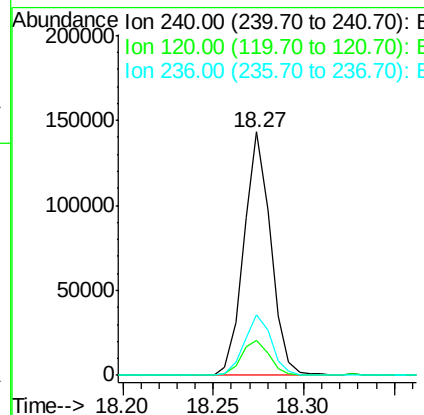
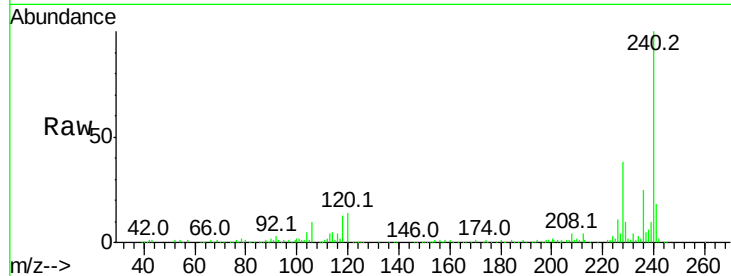
ClientSampled :

CC-5A

Tot Ion	Ratio	Resp	Lower	Upper
240	100	146762		
120	14.3	5.8	8.8#	
236	24.7	20.5	30.7	

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#77

Pyrene

Concen: 41.73 ng

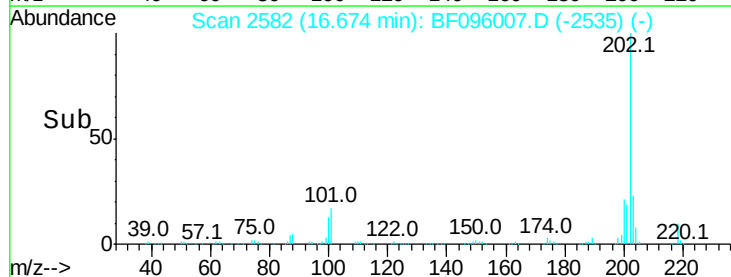
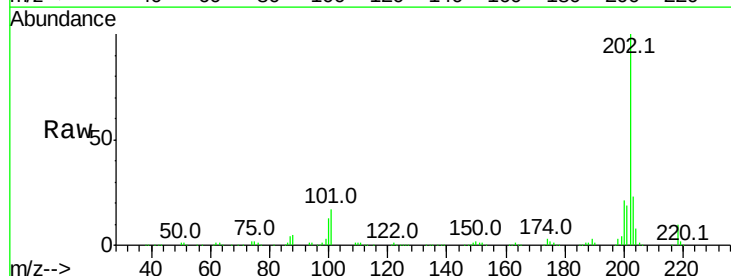
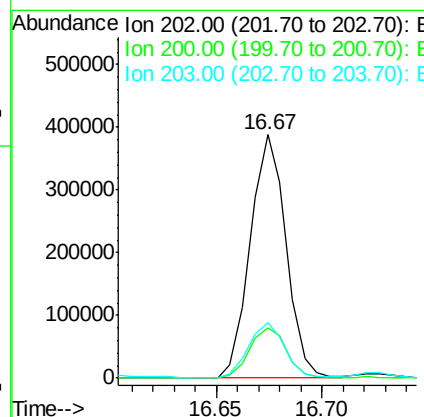
RT: 16.67 min Scan# 2582

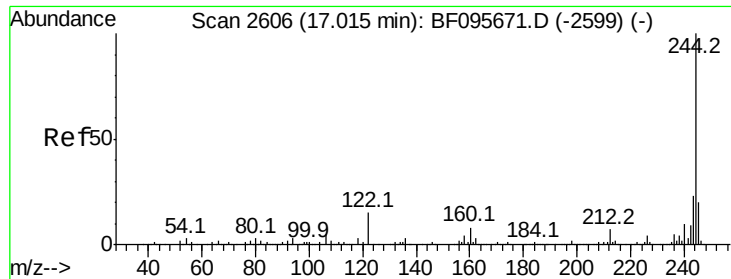
Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	456918		
200	20.7	17.6	26.4	
203	22.7	14.4	21.6#	





#78

Terphenyl-d14

Concen: 1.67 ng

RT: 16.93 min Scan# 2625

Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Instrument :

BNA_F

ClientSampleId :

CC-5A

Tot Ion:244 Resp: 9882

Ion Ratio Lower Upper

244 100

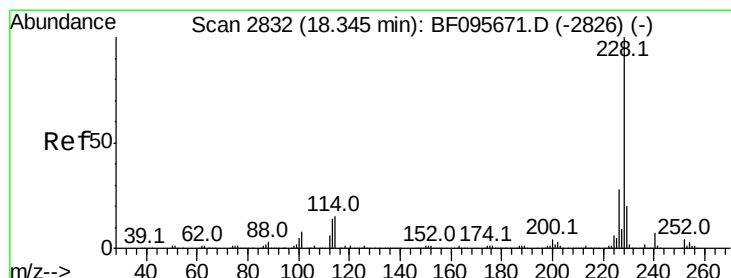
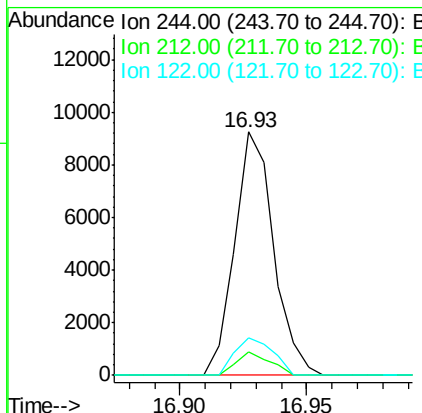
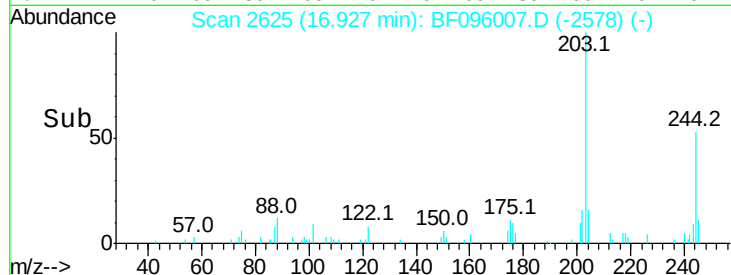
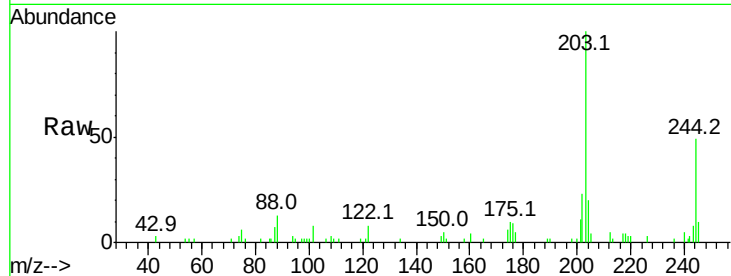
212 9.5 6.0 9.0#

122 15.5 10.3 15.5#

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#80

Benzo(a)anthracene

Concen: 22.91 ng

RT: 18.26 min Scan# 2852

Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

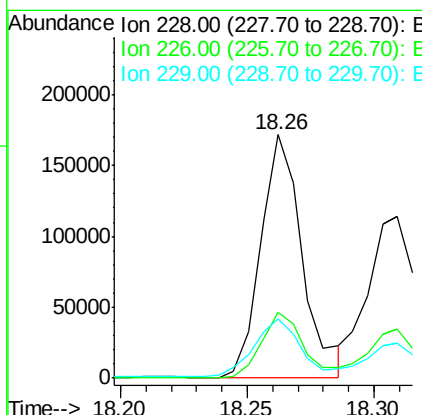
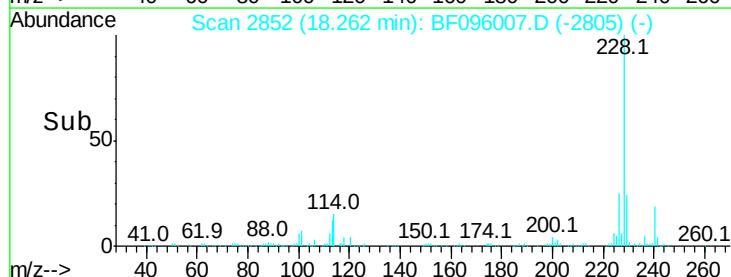
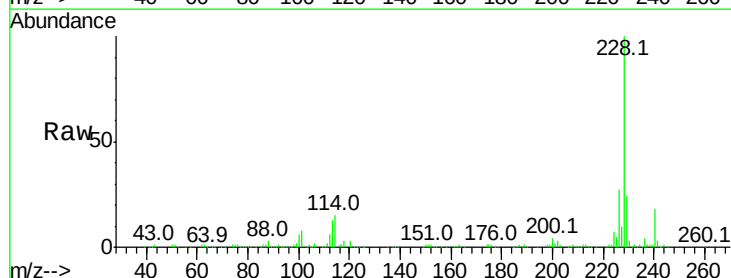
Tgt Ion:228 Resp: 195492

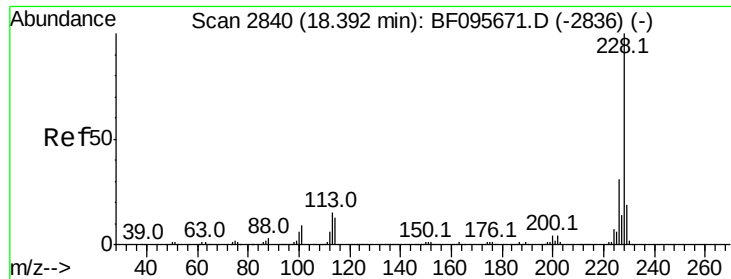
Ion Ratio Lower Upper

228 100

226 27.0 22.6 33.8

229 24.1 16.3 24.5





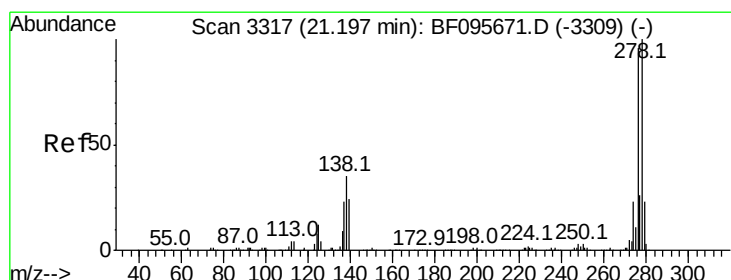
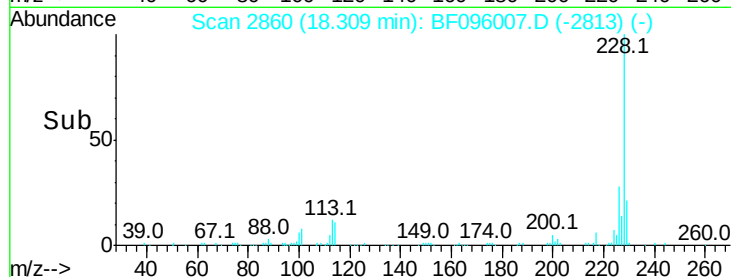
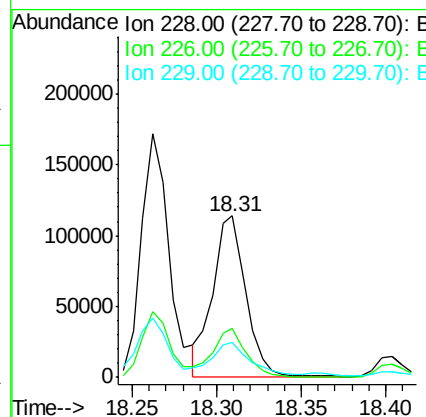
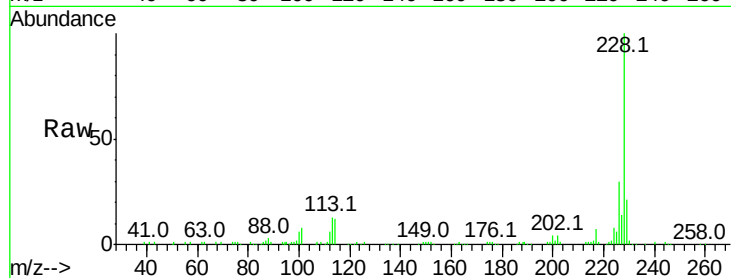
#82
Chrysene
Concen: 18.16 ng
RT: 18.31 min Scan# 2860
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.9	37.3
229	21.4	15.8	23.6

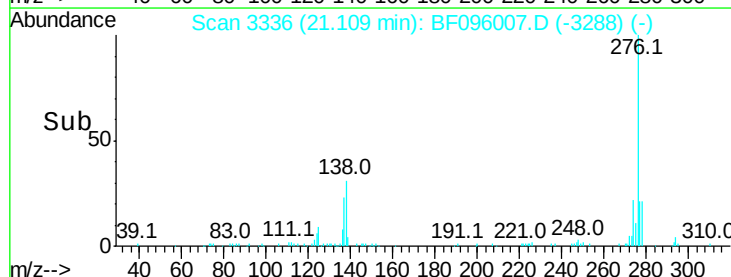
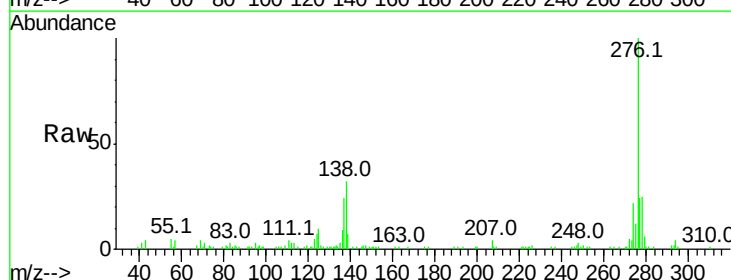
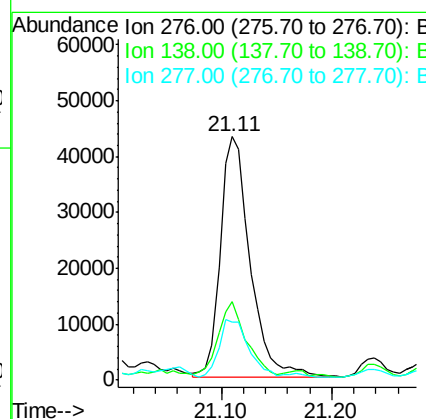
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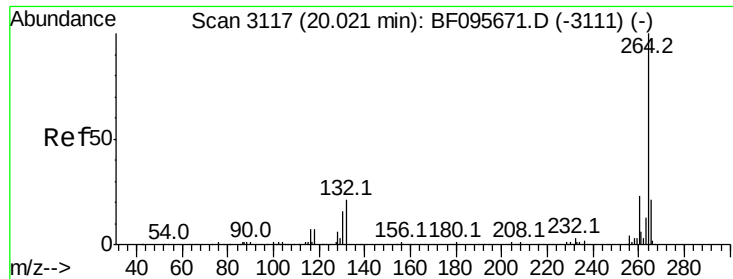
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 11.02 ng
RT: 21.11 min Scan# 3336
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.3	27.8	41.6
277	24.3	20.2	30.4





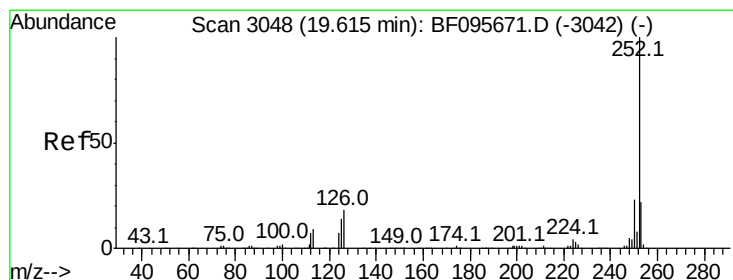
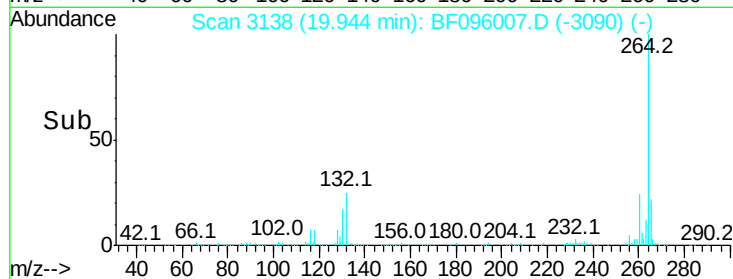
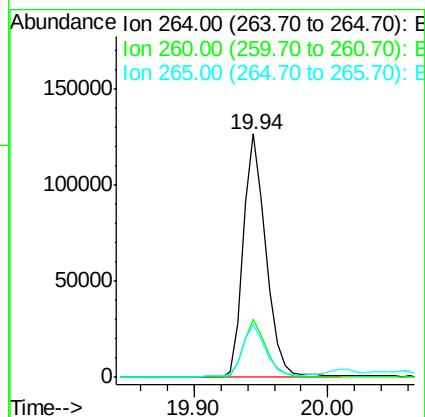
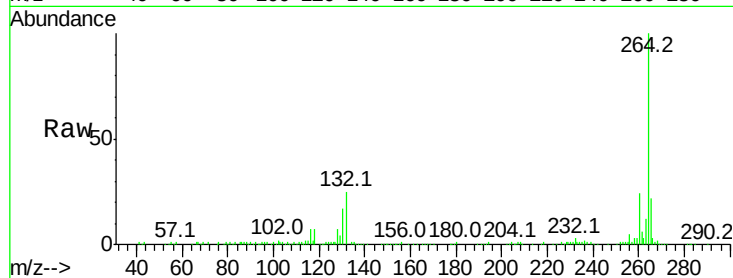
#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.94 min Scan# 3138
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	21.5	17.2	25.8

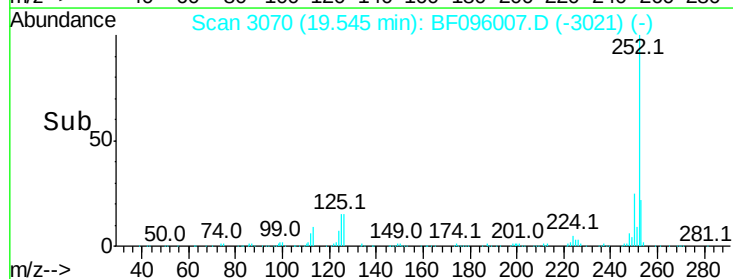
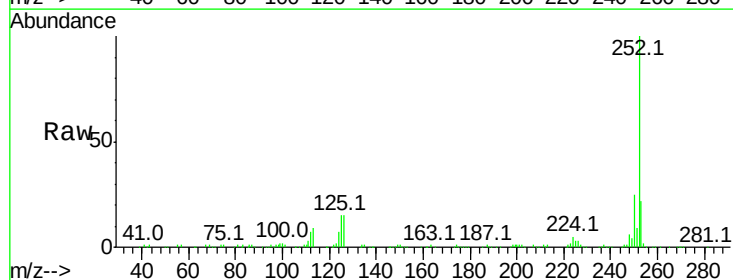
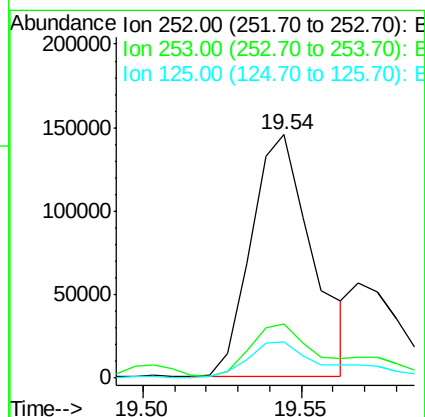
Manual Integrations
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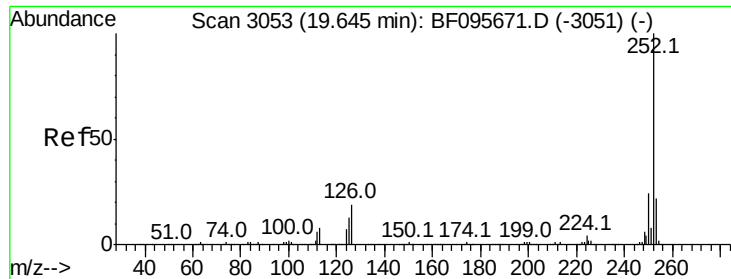
mohammad
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#87
Benzo(b)fluoranthene
Concen: 20.80 ng
RT: 19.54 min Scan# 3070
Delta R.T. -0.01 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.1	27.1
125	15.0	9.8	14.8





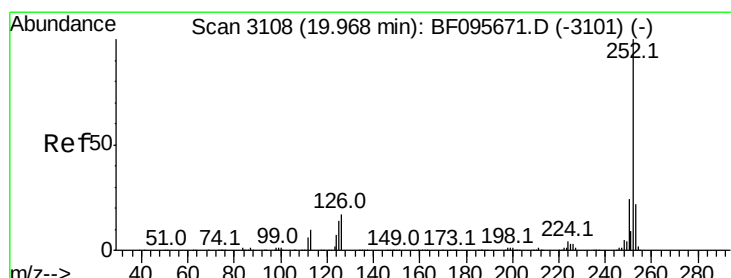
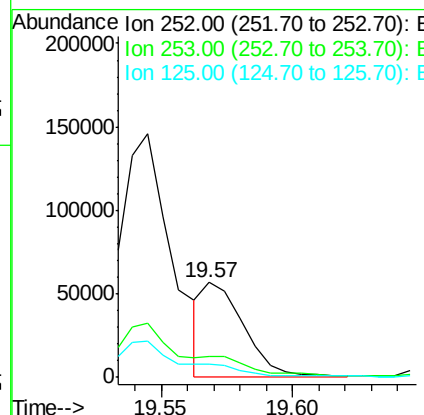
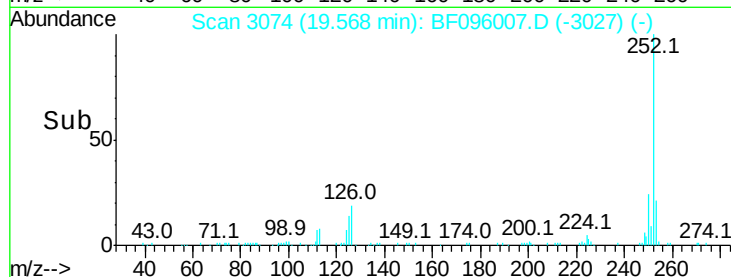
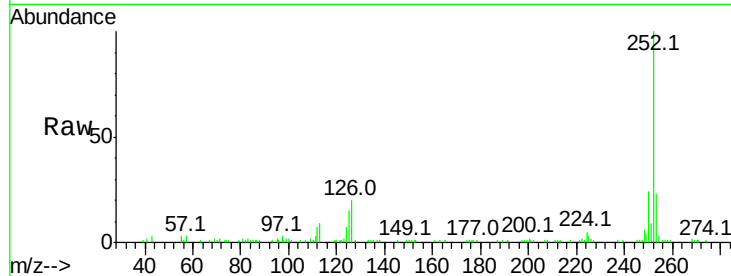
#88
Benzo(k)fluoranthene
Concen: 7.10 ng m
RT: 19.57 min Scan# 3074
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Instrument :
BNA_F
ClientSampleId :
CC-5A

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.4	27.6
125	14.6	13.1	19.7

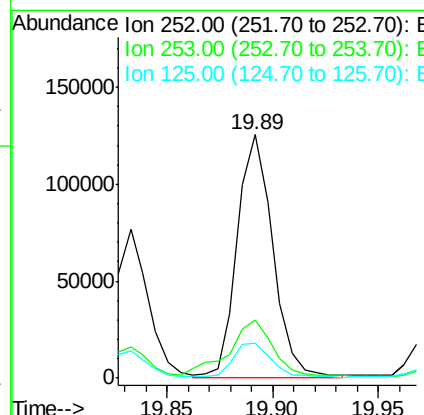
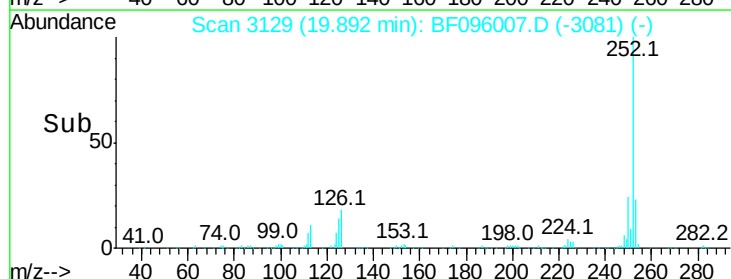
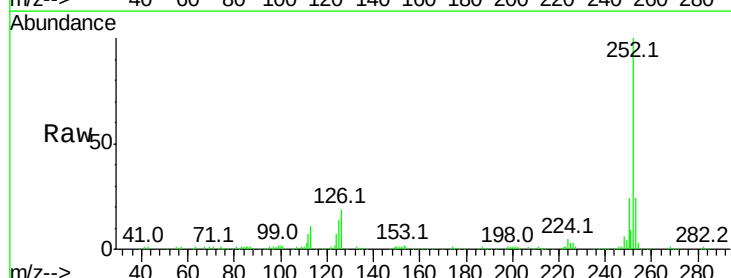
Manual Integrations
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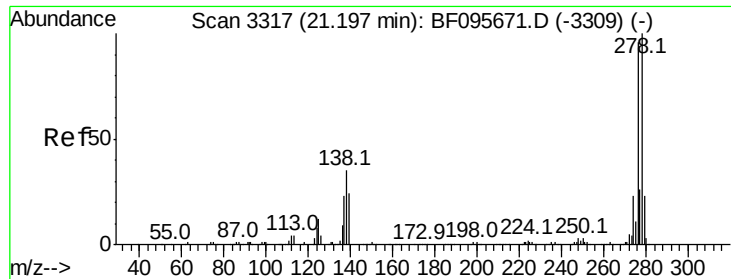
mohammad
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#89
Benzo(a)pyrene
Concen: 16.94 ng
RT: 19.89 min Scan# 3129
Delta R.T. -0.02 min
Lab File: BF096007.D
Acq: 19 Jun 2017 15:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	14.2	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.27 ng

RT: 21.11 min Scan# 3336

Delta R.T. -0.02 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Instrument :

BNA_F

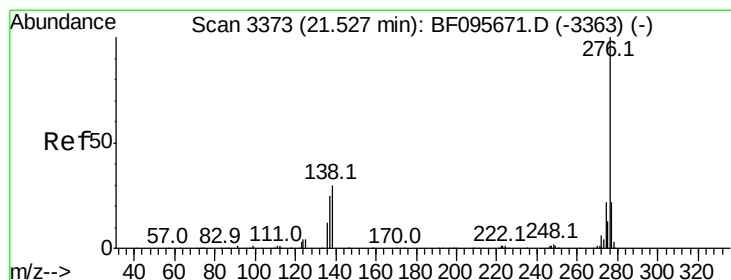
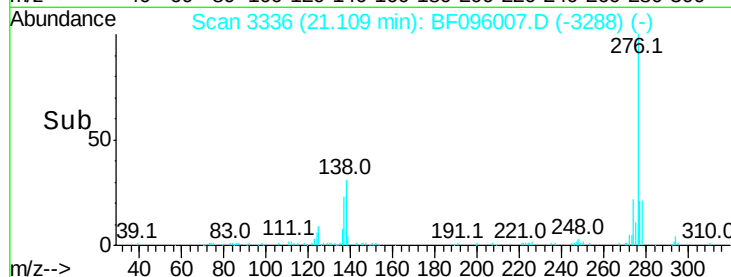
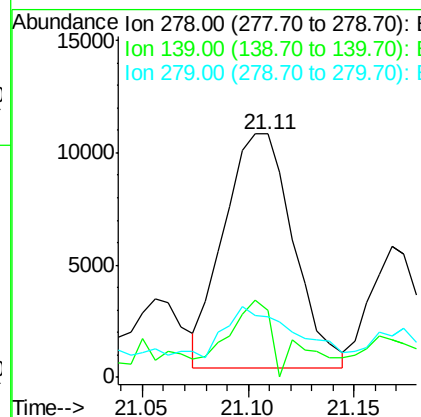
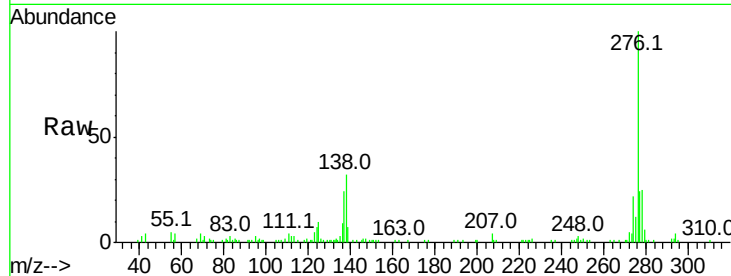
ClientSampled :

CC-5A

Tot Ion:	278	Resp:	23822
Ion Ratio	Lower	Upper	
278	100		
139	27.6	16.6	24.8#
279	25.1	19.3	28.9

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 8.83 ng

RT: 21.44 min Scan# 3392

Delta R.T. -0.01 min

Lab File: BF096007.D

Acq: 19 Jun 2017 15:40

Tgt Ion:	276	Resp:	65568
Ion Ratio	Lower	Upper	
276	100		
277	27.5	18.6	28.0
138	30.3	25.4	38.0

