

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF082115\
 Data File : BF081157.D
 Acq On : 21 Aug 2015 21:19
 Operator : UM/IZ
 Sample : G3363-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-C1

Manual Integrations
 APPROVED

MMDadoda
 8/24/2015 11:24:02 AM

Quant Time: Aug 22 05:34:15 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 21 23:26:22 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.55	152	68081	20.00	ng	-0.01
21) Naphthalene-d8	7.84	136	294363	20.00	ng	0.00
38) Acenaphthene-d10	9.58	164	124112	20.00	ng	-0.01
63) Phenanthrene-d10	11.05	188	265226	20.00	ng	0.00
75) Chrysene-d12	13.67	240	181331	20.00	ng	0.00
86) Perylene-d12	15.01	264	153567	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.13	112	499645	110.39	ng	0.02
7) Phenol-d6	6.21	99	625807	105.97	ng	0.00
23) Nitrobenzene-d5	7.12	82	391201	60.71	ng	-0.01
41) 2,4,6-Tribromophenol	10.37	330	106411	98.91	ng	0.00
44) 2-Fluorobiphenyl	8.92	172	517596	54.64	ng	-0.01
78) Terphenyl-d14	12.64	244	477396	56.44	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.86	128	35357	2.15	ng	99
49) Dimethylphthalate	9.32	163	121546	11.89	ng	100
51) Acenaphthene	9.61	154	37479	3.98	ng	99
54) Dibenzofuran	9.78	168	41517	3.29	ng	99
57) Fluorene	10.13	166	39323	4.06	ng	98
70) Phenanthrene	11.08	178	480130	30.55	ng	100
71) Anthracene	11.12	178	147331	9.63	ng	98
72) Carbazole	11.28	167	72409	4.92	ng	99
74) Fluoranthene	12.25	202	609628	35.94	ng	92
77) Pyrene	12.48	202	603289	40.93	ng	100
80) Benzo(a)anthracene	13.66	228	250758m	20.62	ng	
82) Chrysene	13.69	228	222880m	20.34	ng	
83) Bis(2-ethylhexyl)phthalate	13.68	149	18640	2.30	ng	97
85) Indeno(1,2,3-cd)pyrene	16.19	276	102620	13.34	ng	95
87) Benzo(b)fluoranthene	14.65	252	240583m	22.15	ng	
88) Benzo(k)fluoranthene	14.67	252	67421m	6.66	ng	
89) Benzo(a)pyrene	14.95	252	169185	17.88	ng	# 94
90) Dibenzo(a,h)anthracene	16.19	278	26189m	3.55	ng	
91) Benzo(g,h,i)perylene	16.54	276	85683	11.45	ng	# 92

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

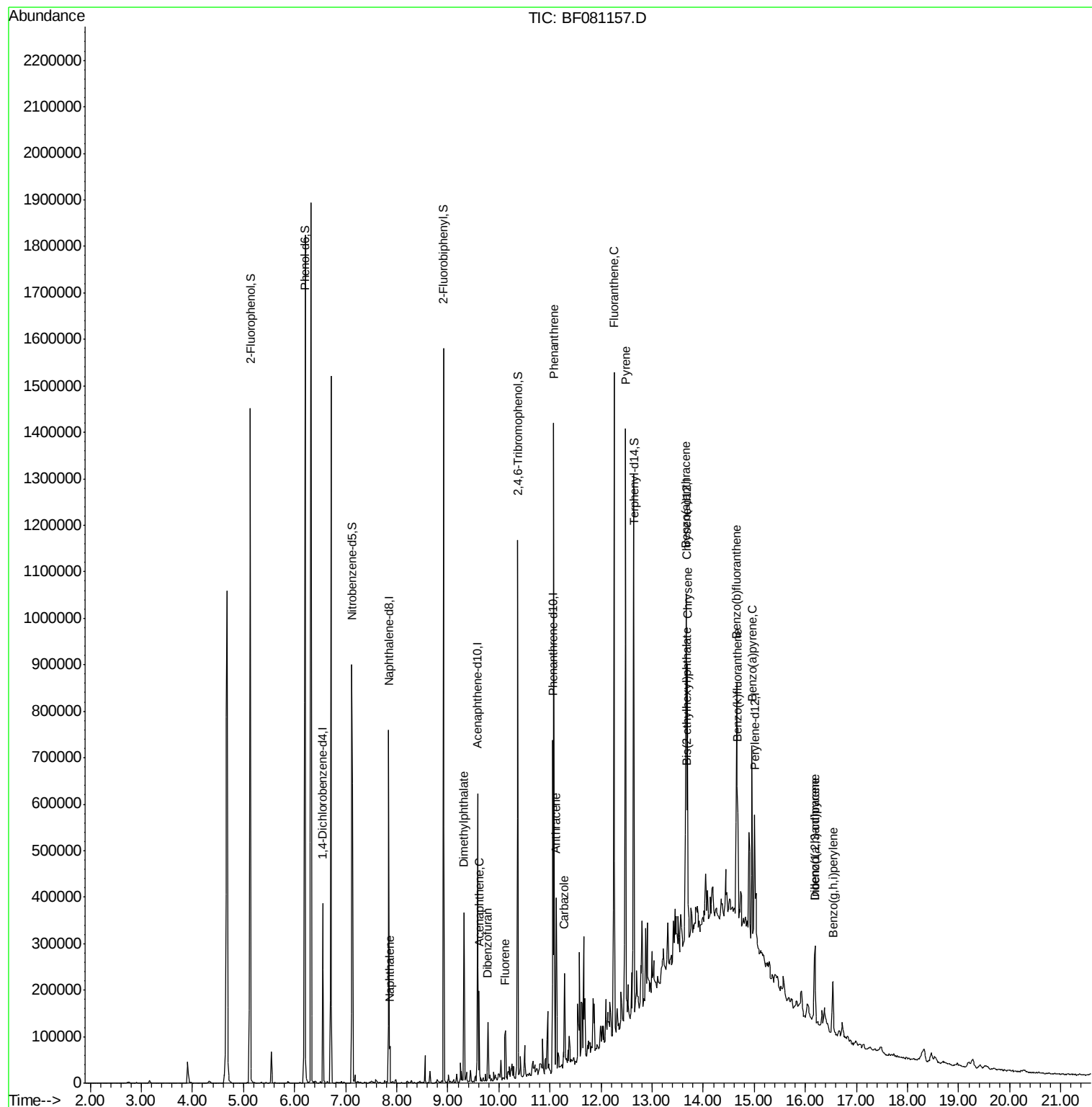
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF082115\
Data File : BF081157.D
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#1

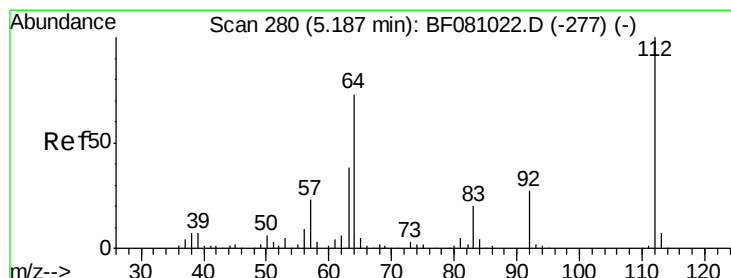
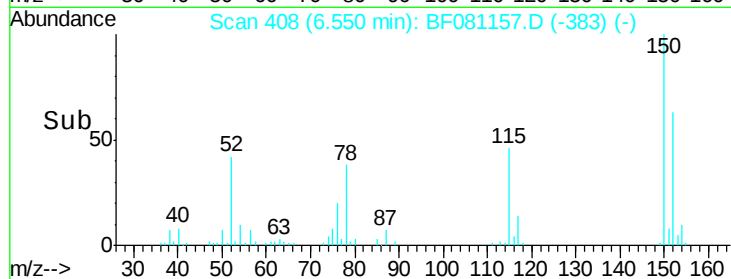
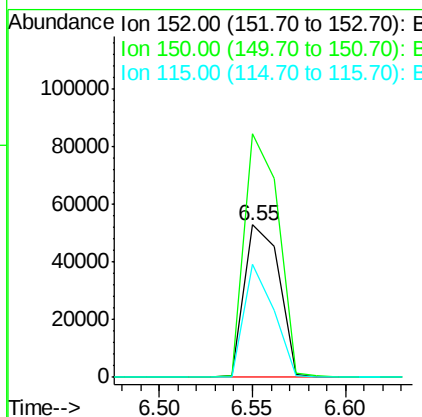
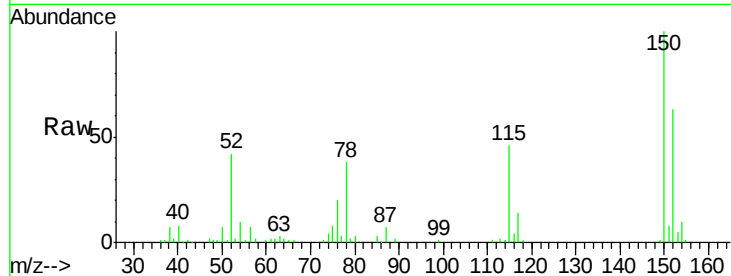
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.55 min Scan# 408
Delta R.T. -0.01 min
Lab File: BF081157.D
Acq: 21 Aug 2015 21:19

Instrument :
BNA_F
ClientSampleId :
TEC-C1

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.9	123.8	185.6
115	74.3	52.1	78.1

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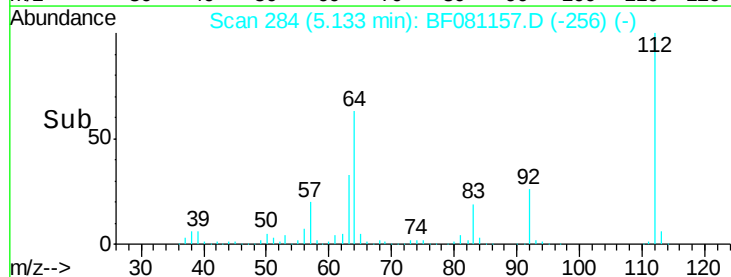
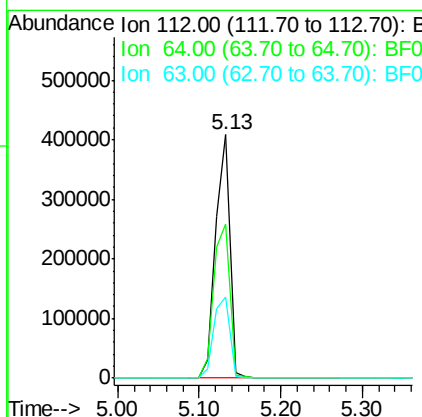
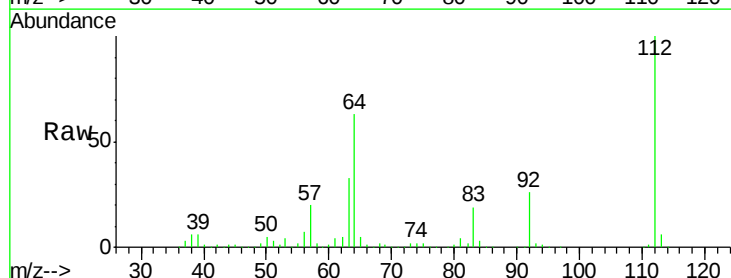
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#5

2-Fluorophenol
Concen: 110.39 ng
RT: 5.13 min Scan# 284
Delta R.T. 0.02 min
Lab File: BF081157.D
Acq: 21 Aug 2015 21:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.3	66.9	100.3#
63	33.5	38.1	57.1#





#7

Phenol-d6

Concen: 105.97 ng

RT: 6.21 min Scan# 378

Delta R.T. -0.00 min

Lab File: BF081157.D

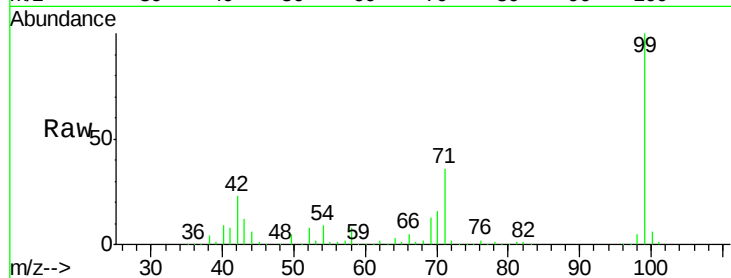
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Instrument :

BNA_F

ClientSampleId :

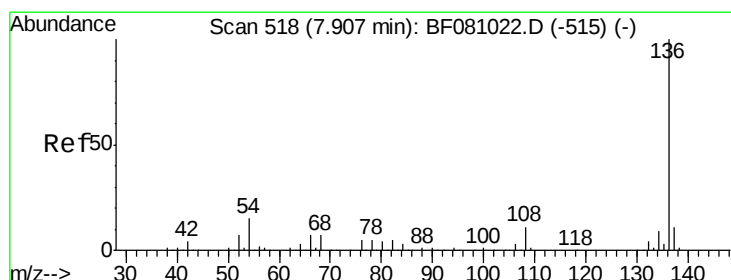
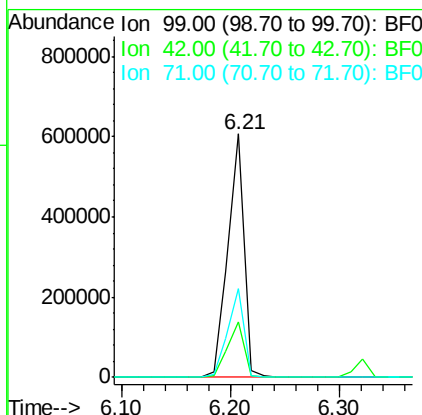
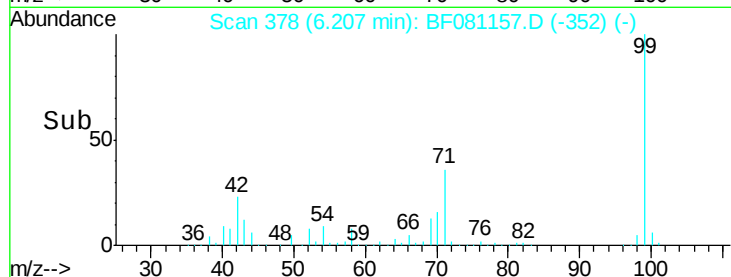
TEC-C1



Tgt Ion:	99	Resp:	625807
Ion Ratio	Lower	Upper	
99	100		
42	22.9	19.6	29.4
71	36.2	31.2	46.8

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#21

Naphthalene-d8

Concen: 20.00 ng

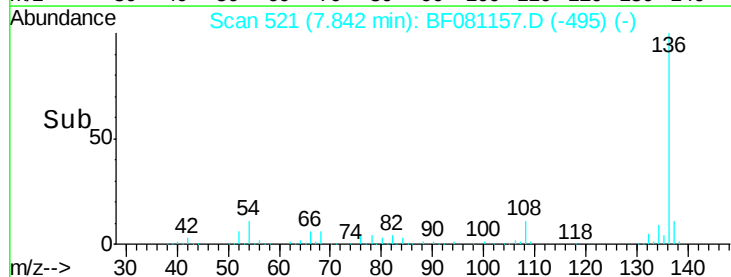
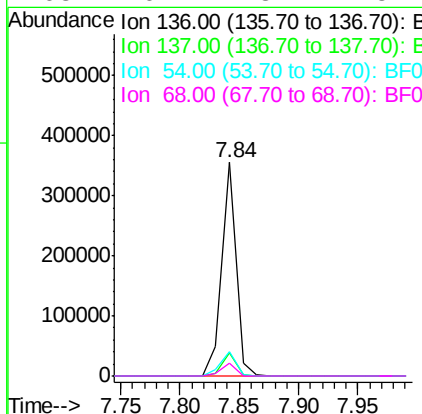
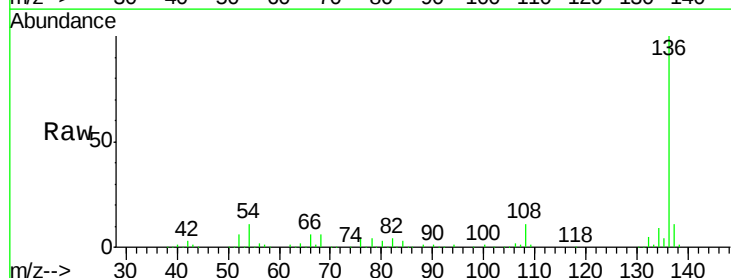
RT: 7.84 min Scan# 521

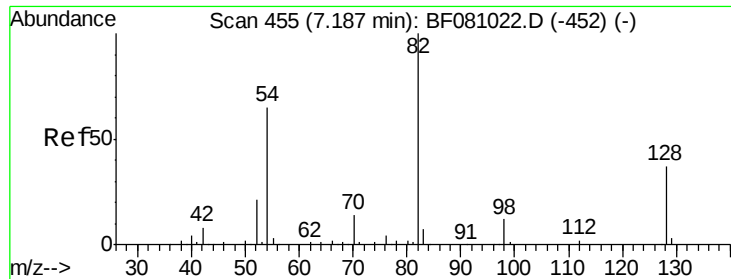
Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Tgt Ion:	136	Resp:	294363
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.2	12.2
54	11.2	7.7	11.5
68	6.1	3.4	5.2#





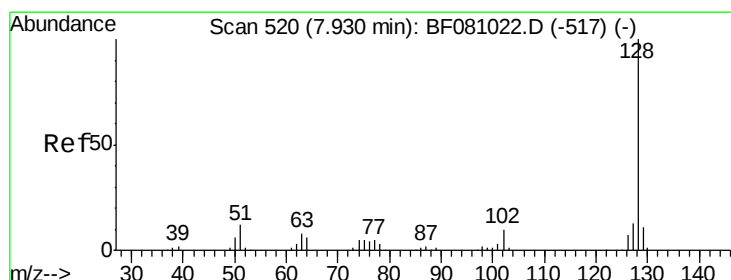
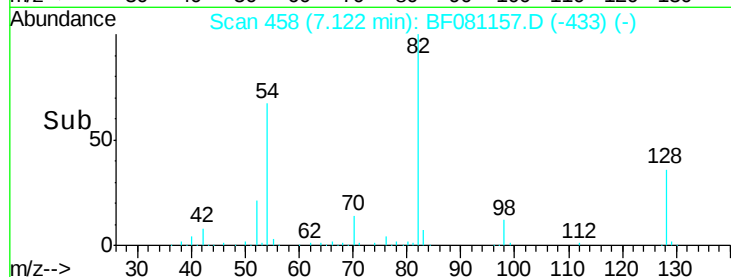
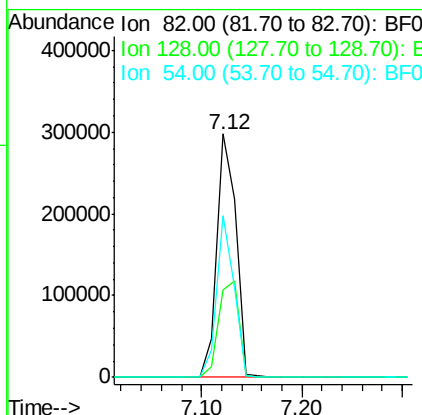
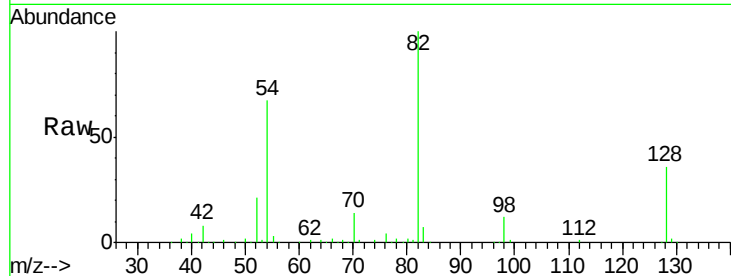
#23
 Nitrobenzene-d5
 Concen: 60.71 ng
 RT: 7.12 min Scan# 458
 Delta R.T. -0.01 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

Instrument :
 BNA_F
 ClientSampleId :
 TEC-C1

Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.7	28.6	42.8
54	66.5	55.1	82.7

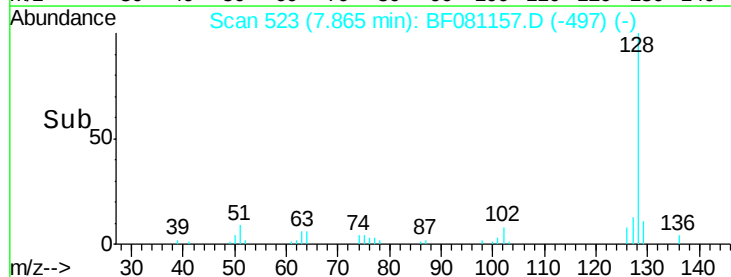
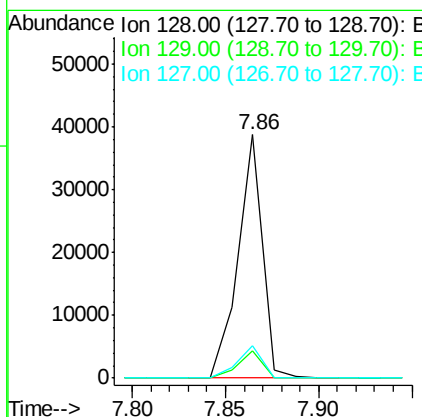
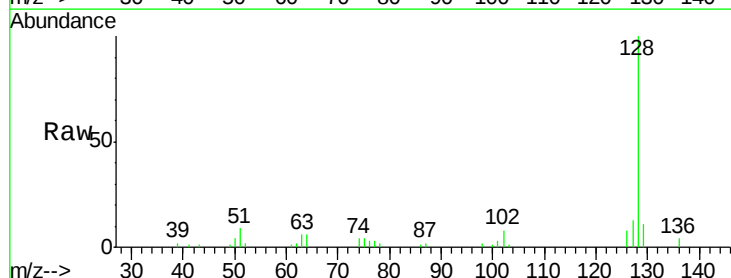
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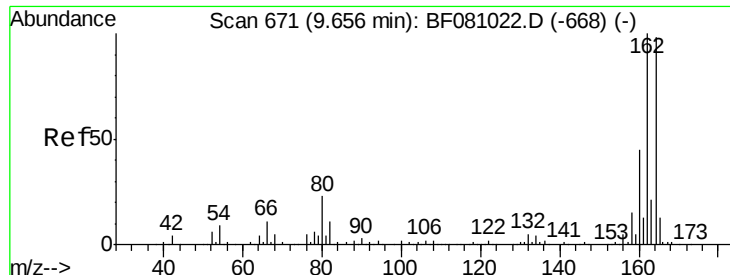
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#31
 Naphthalene
 Concen: 2.15 ng
 RT: 7.86 min Scan# 523
 Delta R.T. -0.00 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.4	12.6
127	13.2	10.6	16.0





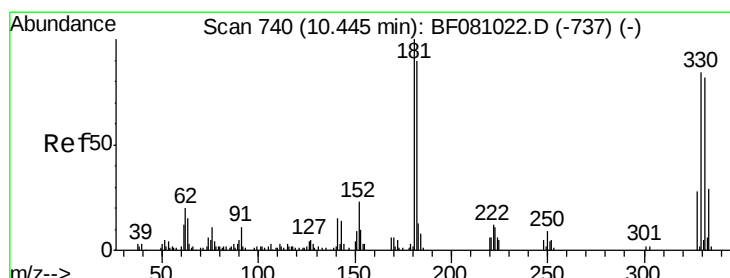
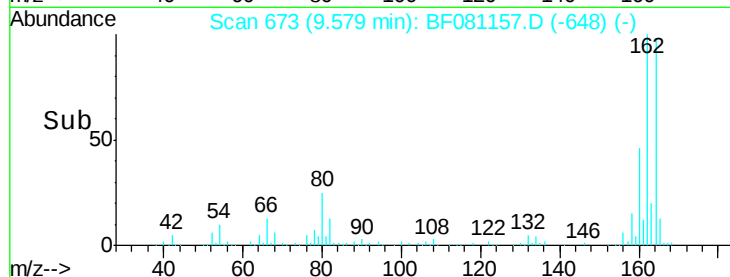
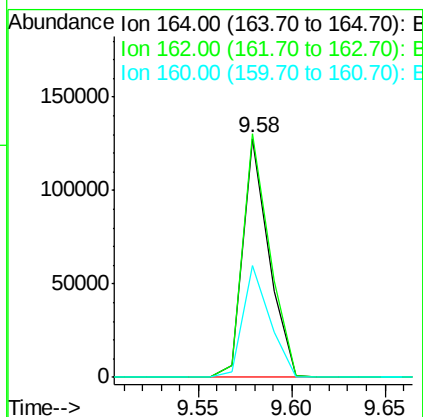
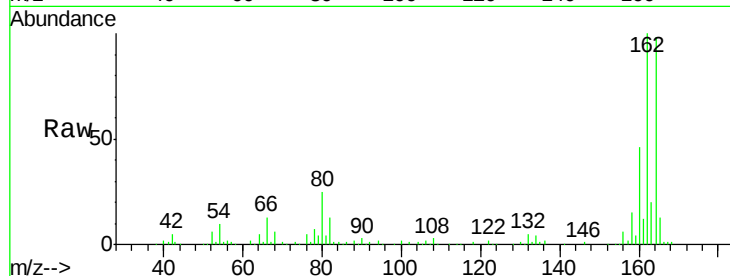
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.58 min Scan# 673
 Delta R.T. -0.01 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

Instrument :
 BNA_F
 ClientSampleId :
 TEC-C1

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	124112		
162	101.9	83.8	125.8	
160	46.7	39.8	59.8	

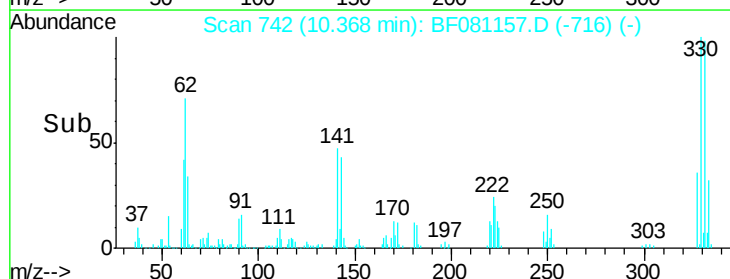
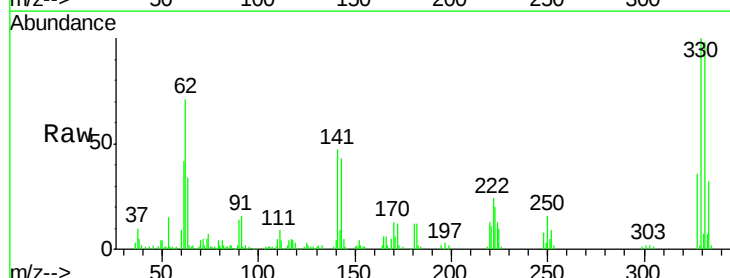
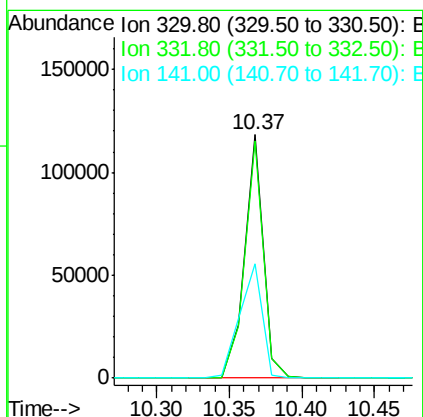
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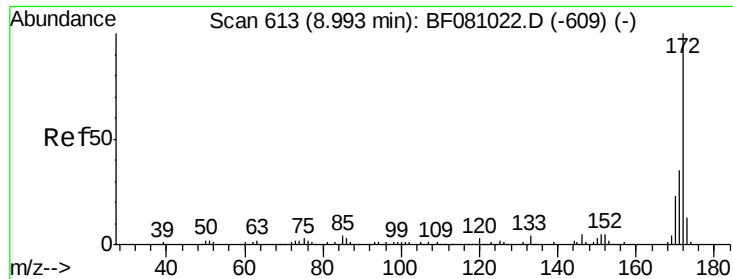
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#41
 2,4,6-Tribromophenol
 Concen: 98.91 ng
 RT: 10.37 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

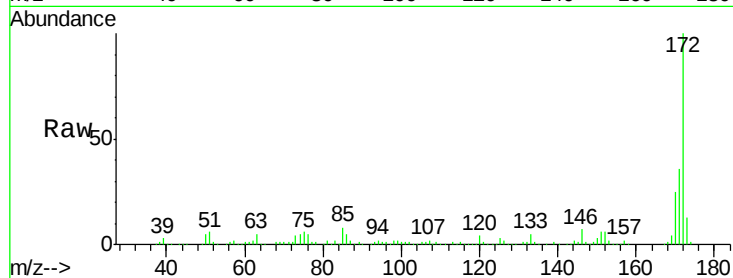
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	106411		
332	97.4	77.3	115.9	
141	57.0	44.9	67.3	





#44
 2-Fluorobiphenyl
 Concen: 54.64 ng
 RT: 8.92 min Scan# 615
 Delta R.T. -0.01 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

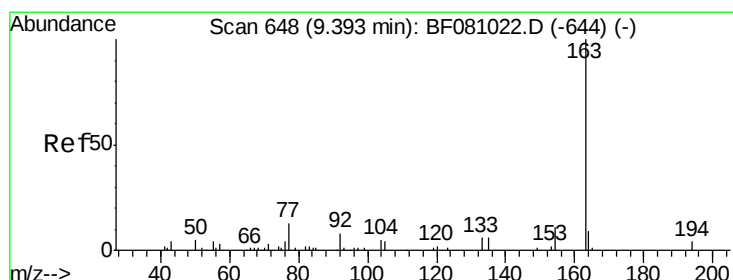
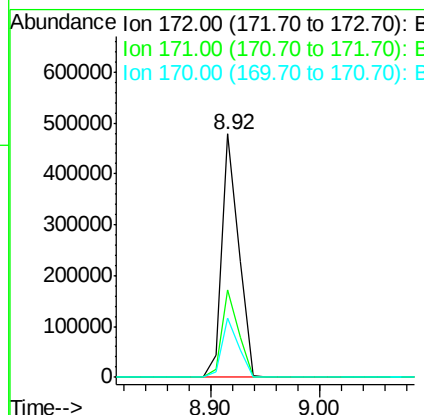
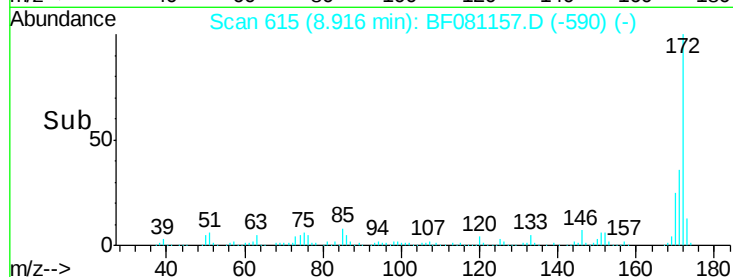
Instrument :
 BNA_F
 ClientSampleId :
 TEC-C1



Tgt Ion	Ratio	Resp	Lower	Upper
172	100	517596		
171	35.7	28.9	43.3	
170	24.6	19.4	29.2	

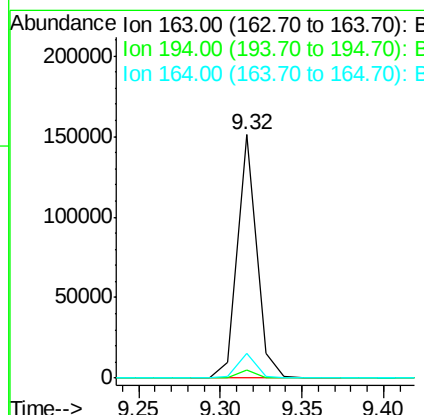
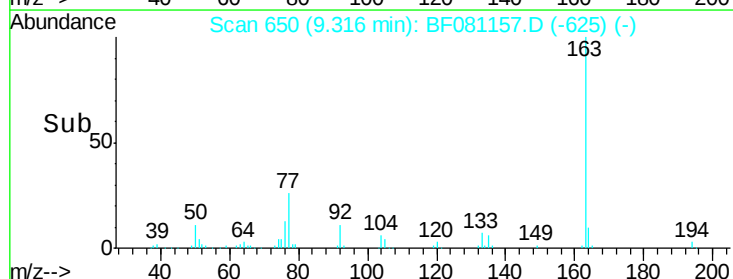
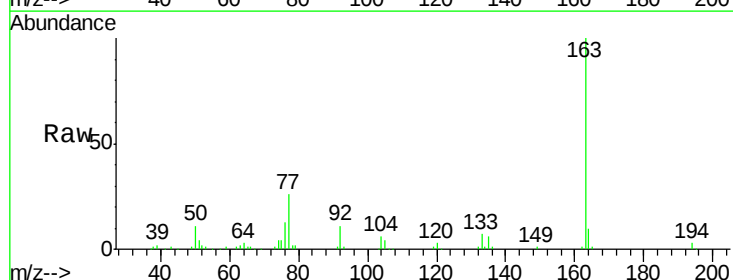
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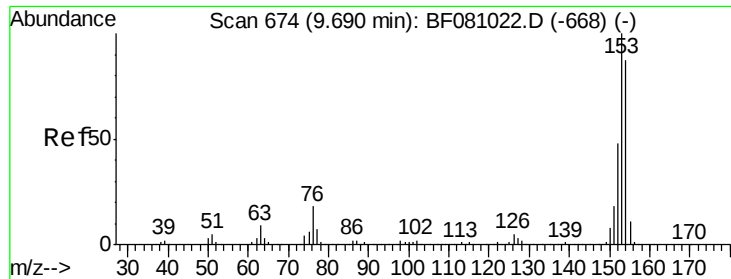
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#49
 Dimethylphthalate
 Concen: 11.89 ng
 RT: 9.32 min Scan# 650
 Delta R.T. -0.01 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	121546		
194	3.1	2.5	3.7	
164	10.1	8.1	12.1	





#51

Acenaphthene

Concen: 3.98 ng

RT: 9.61 min Scan# 676

Delta R.T. -0.01 min

Lab File: BF081157.D

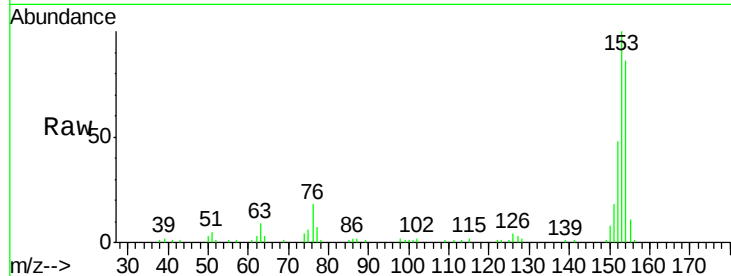
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Instrument :

BNA_F

ClientSampleId :

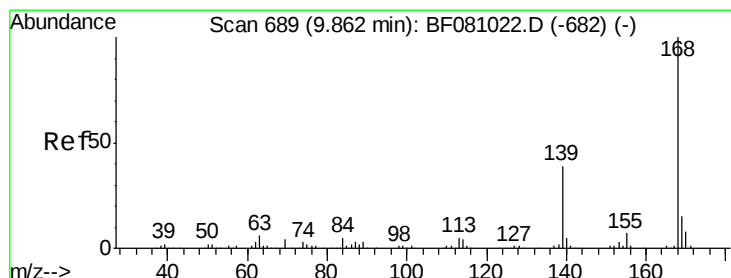
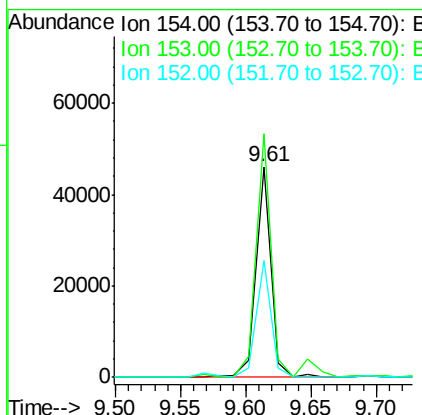
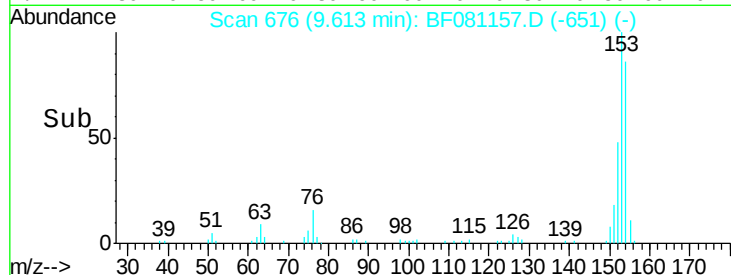
TEC-C1



Tgt Ion:	154	Resp:	37479
Ion Ratio	Lower	Upper	
154	100		
153	115.7	91.4	137.2
152	55.7	43.7	65.5

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#54

Dibenzofuran

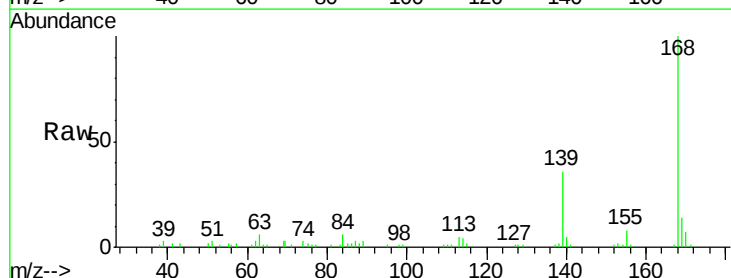
Concen: 3.29 ng

RT: 9.78 min Scan# 691

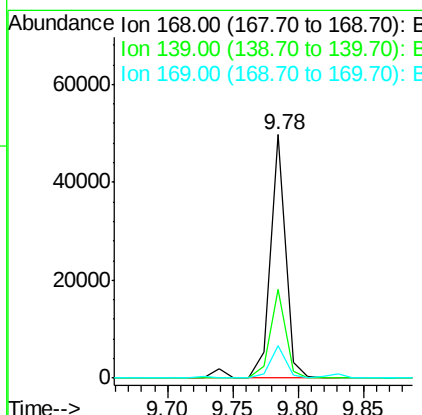
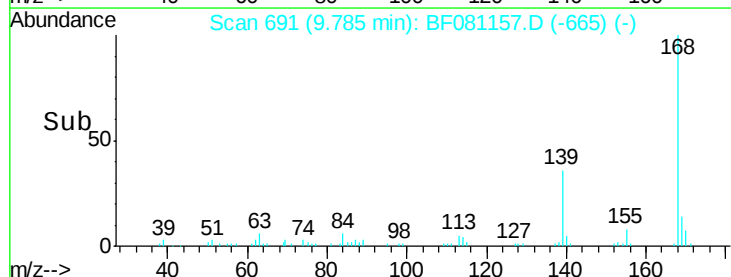
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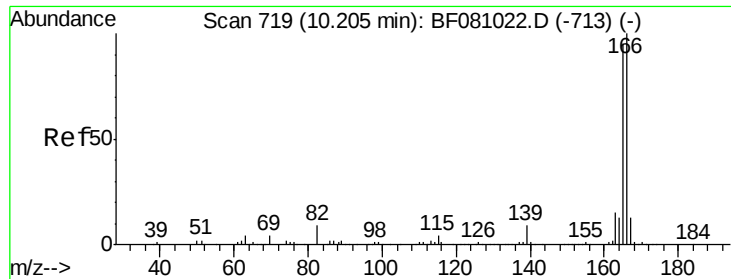
Lab File: BF081157.D

Acq: 21 Aug 2015 21:19



Tgt Ion:	168	Resp:	41517
Ion Ratio	Lower	Upper	
168	100		
139	36.2	29.3	43.9
169	13.6	10.3	15.5





#57

Fluorene

Concen: 4.06 ng

RT: 10.13 min Scan# 721

Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Instrument :

BNA_F

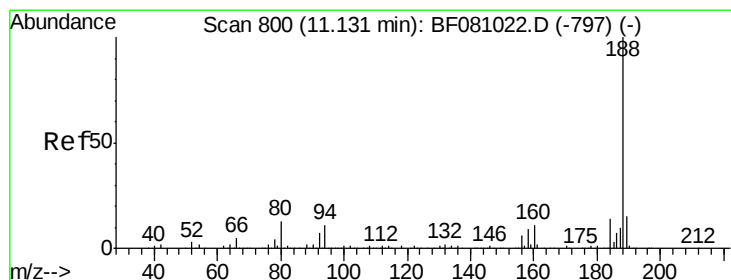
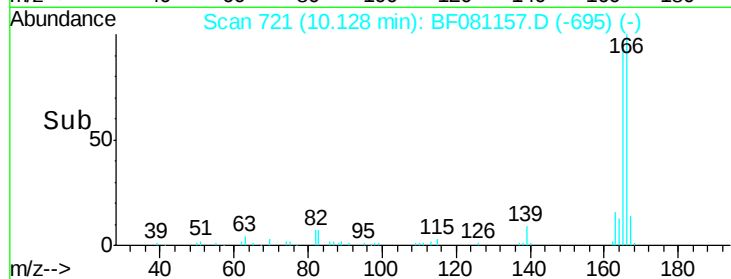
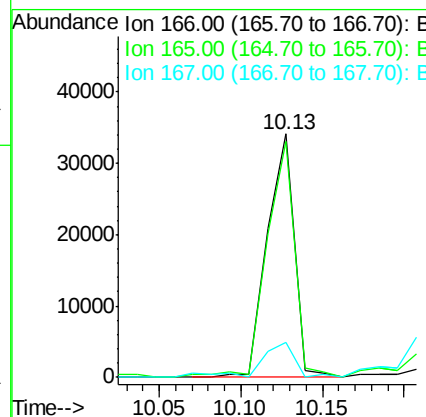
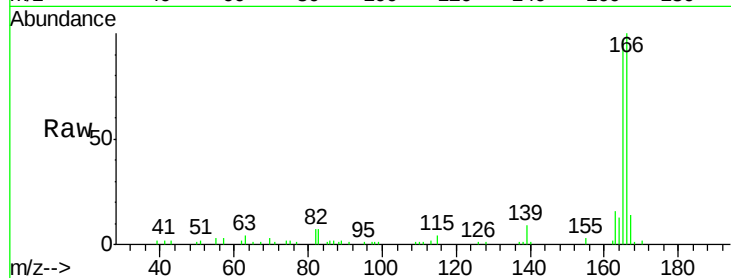
ClientSampleId :

TEC-C1

Manual Integrations
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Tgt Ion:	166	Resp:	39323
Ion Ratio	Lower	Upper	
166	100		
165	96.7	75.8	113.8
167	14.1	11.3	16.9



#63

Phenanthrene-d10

Concen: 20.00 ng

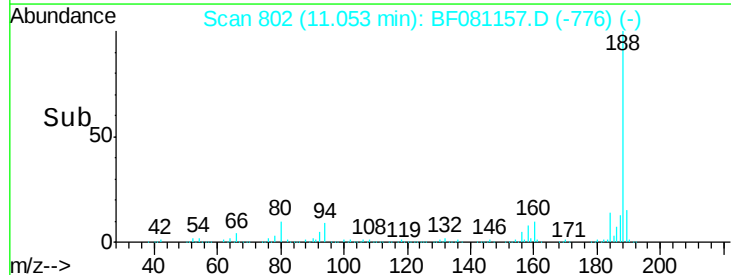
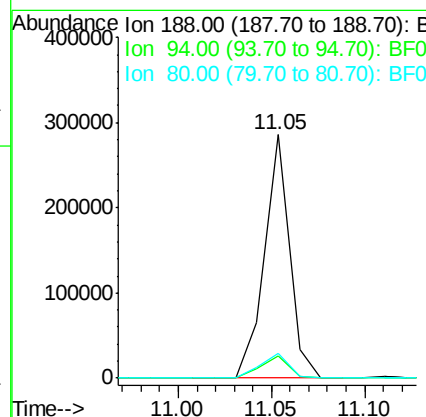
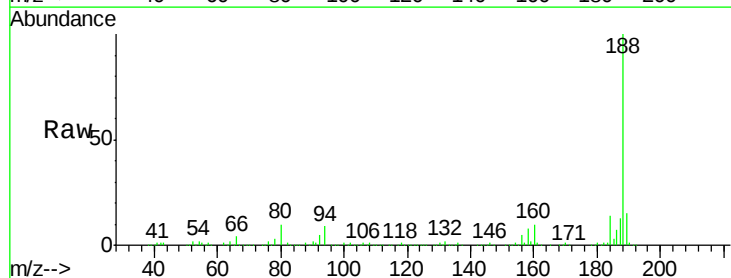
RT: 11.05 min Scan# 802

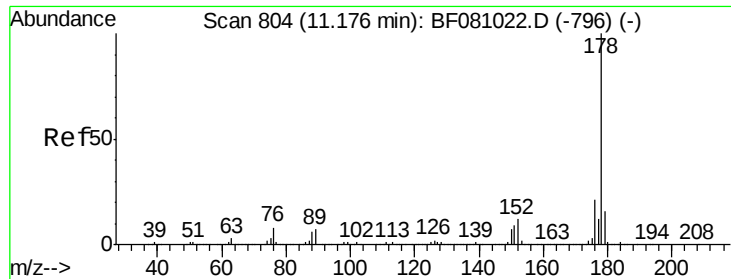
Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Tgt Ion:	188	Resp:	265226
Ion Ratio	Lower	Upper	
188	100		
94	9.1	8.2	12.2
80	10.1	9.5	14.3





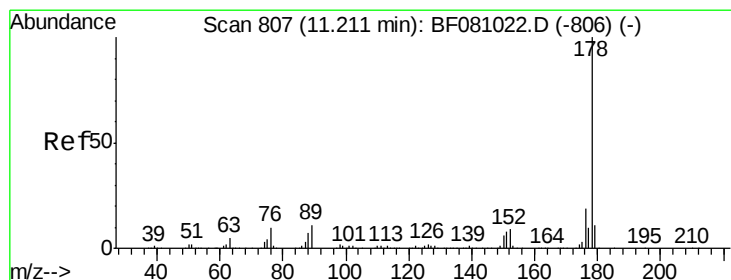
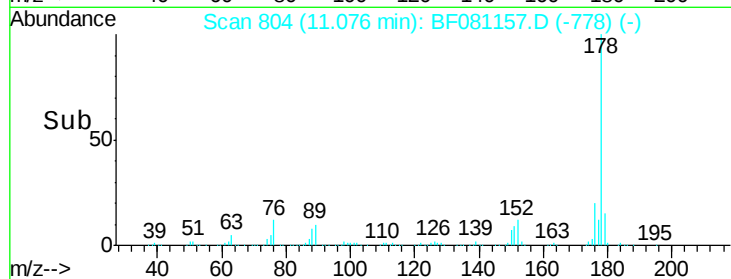
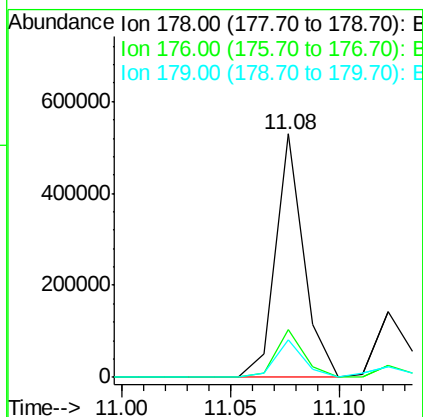
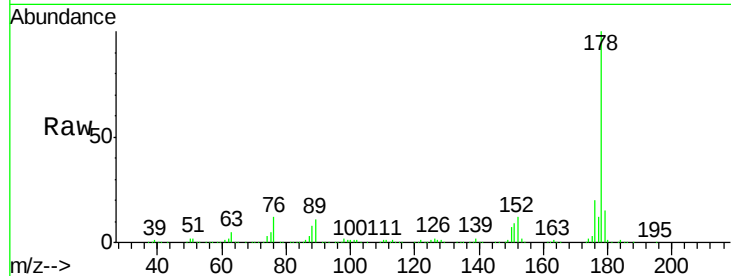
#70
Phenanthrene
Concen: 30.55 ng
RT: 11.08 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF081157.D
Acq: 21 Aug 2015 21:19

Instrument :
BNA_F
ClientSampleId :
TEC-C1

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.4	12.2	18.2

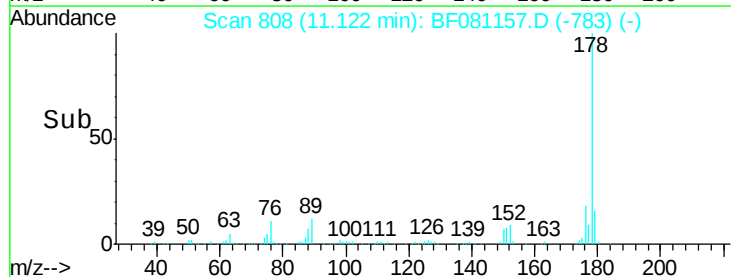
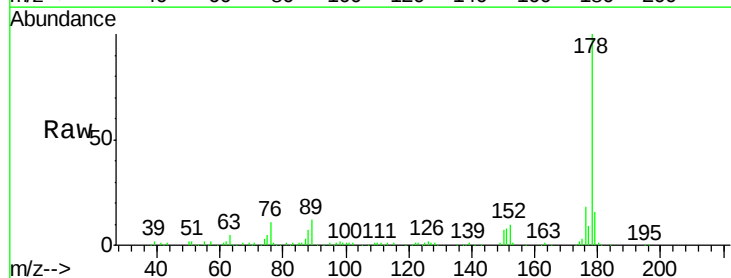
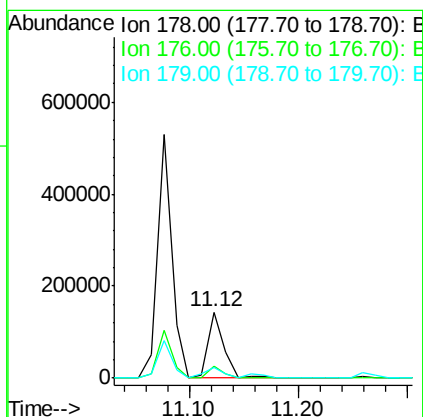
Manual Integrations
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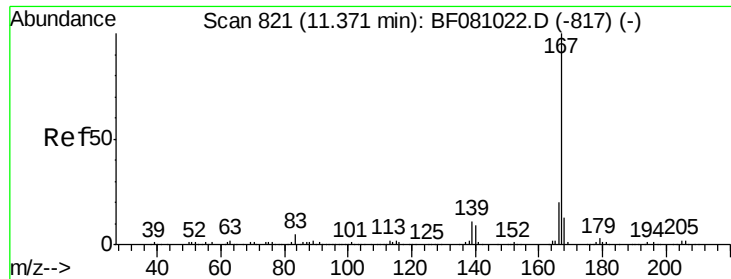
MMDadoda
8/24/2015 11:24:02 AM



#71
Anthracene
Concen: 9.63 ng
RT: 11.12 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF081157.D
Acq: 21 Aug 2015 21:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.7	23.5
179	15.8	12.7	19.1





#72

Carbazole

Concen: 4.92 ng

RT: 11.28 min Scan# 822

Delta R.T. -0.01 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Instrument :

BNA_F

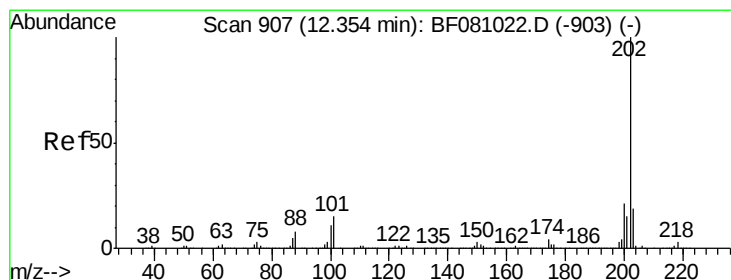
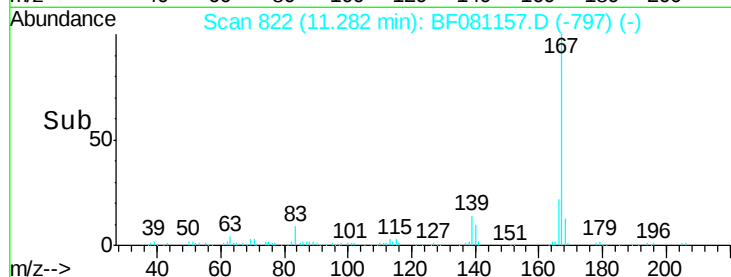
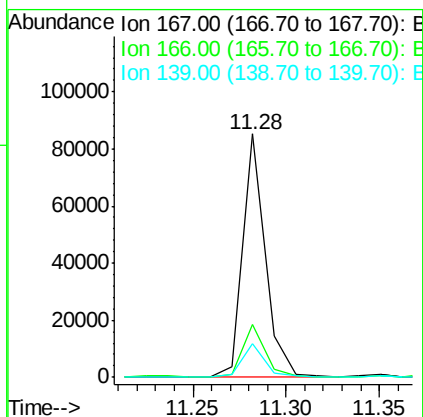
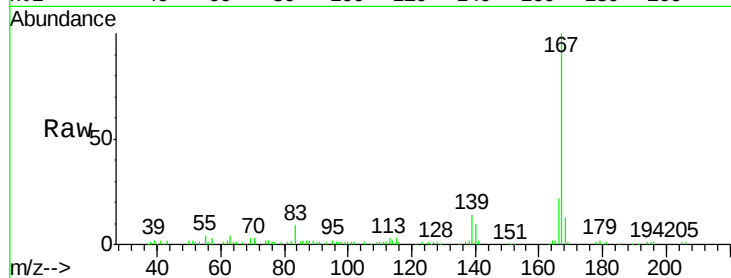
ClientSampleId :

TEC-C1

Manual Integrations
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MMDadoda
8/24/2015 11:24:02 AM

Tgt Ion:	167	Resp:	72409
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.4	26.0
139	14.1	10.6	16.0



#74

Fluoranthene

Concen: 35.94 ng

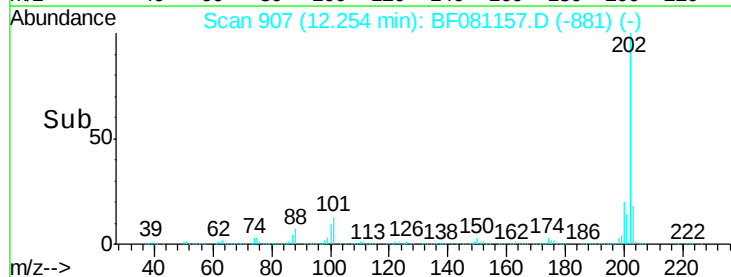
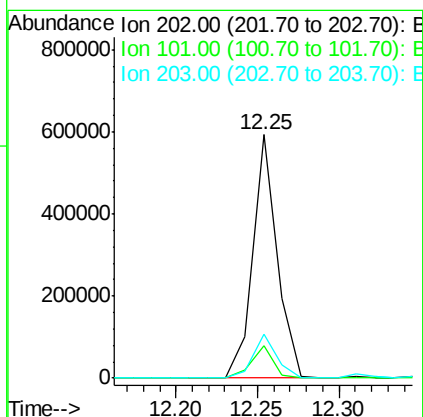
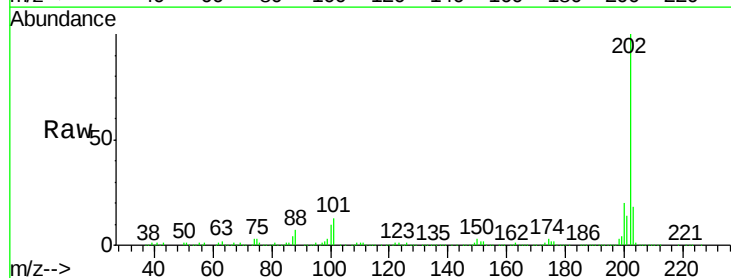
RT: 12.25 min Scan# 907

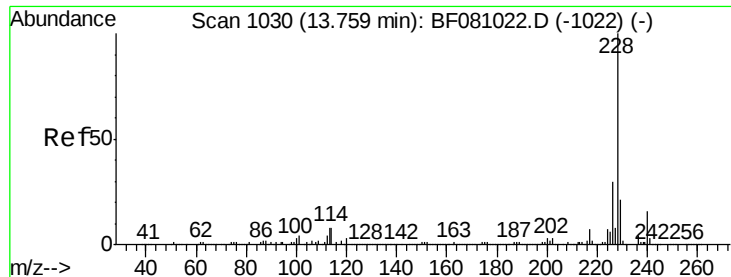
Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Tgt Ion:	202	Resp:	609628
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	24.8
203	18.2	0.0	36.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.67 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Instrument :

BNA_F

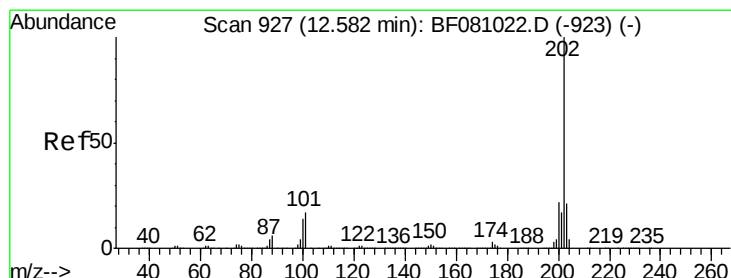
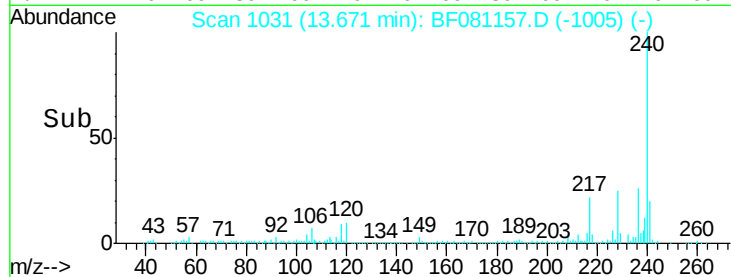
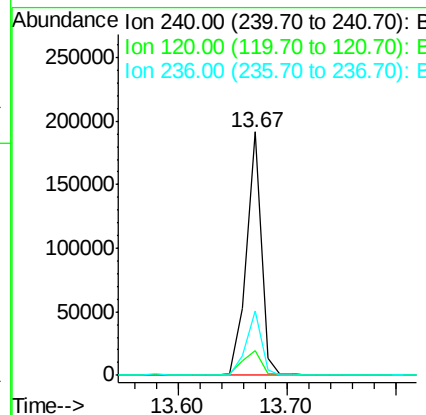
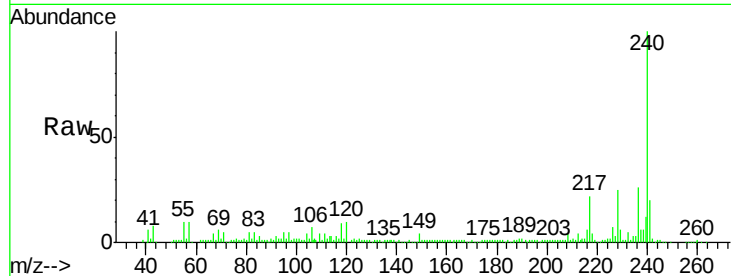
ClientSampleId :

TEC-C1

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	181331		
120	10.4	5.6	8.4#	
236	26.2	20.6	30.8	

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#77

Pyrene

Concen: 40.93 ng

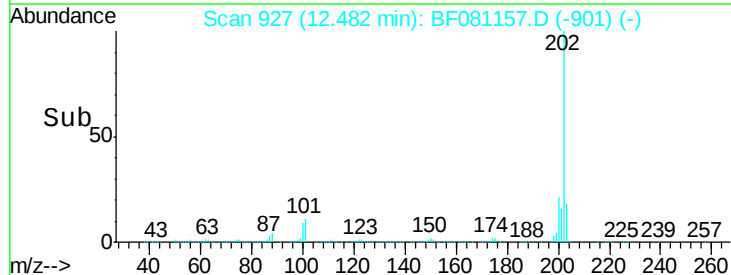
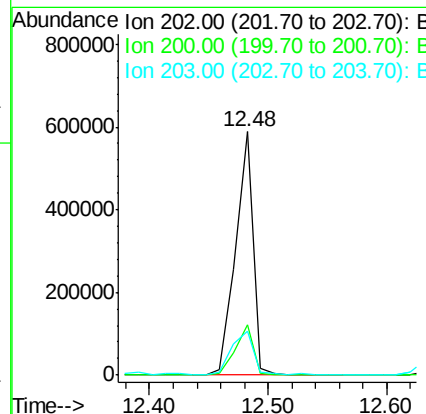
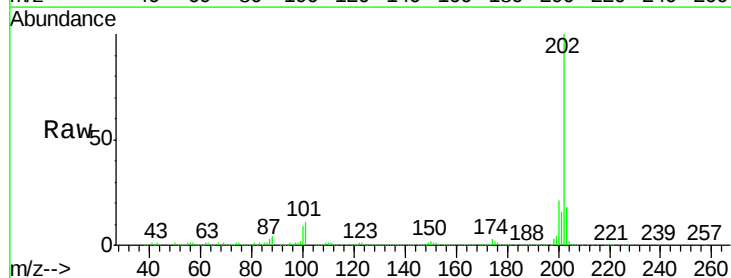
RT: 12.48 min Scan# 927

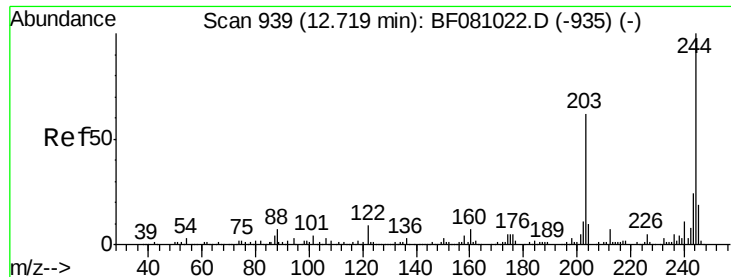
Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	603289		
200	20.5	16.6	24.8	
203	17.8	14.1	21.1	





#78

Terphenyl-d14

Concen: 56.44 ng

RT: 12.64 min Scan# 941

Delta R.T. 0.01 min

Lab File: BF081157.D

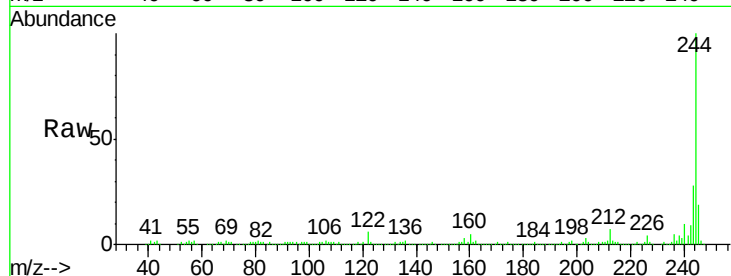
Acq: 21 Aug 2015 21:19

Instrument :

BNA_F

ClientSampleId :

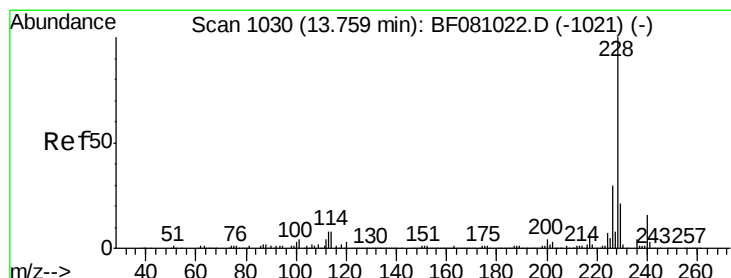
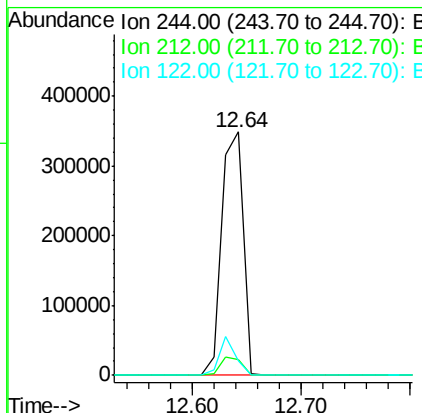
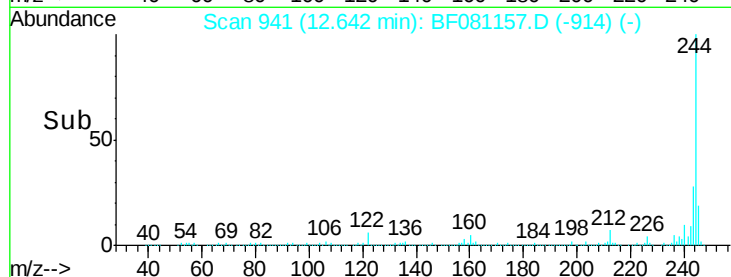
TEC-C1



Tgt Ion:	244	Resp:	477396
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.8	8.8
122	5.8	8.2	12.4#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 20.62 ng m

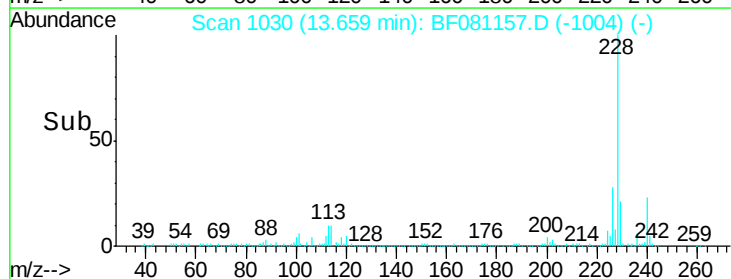
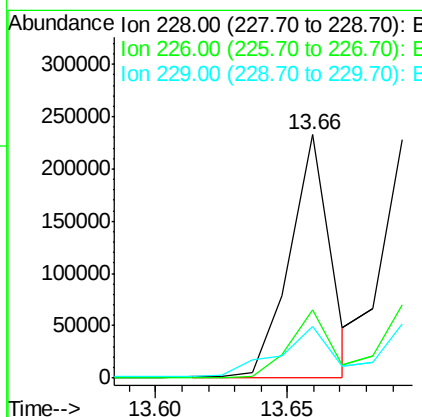
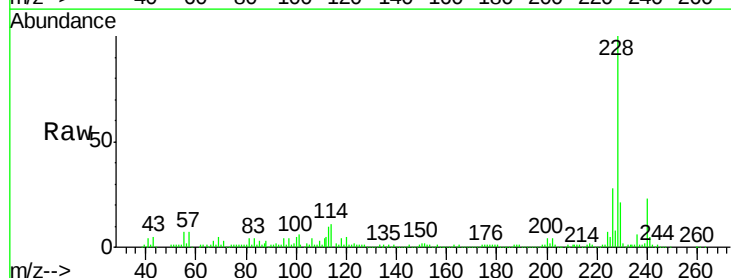
RT: 13.66 min Scan# 1030

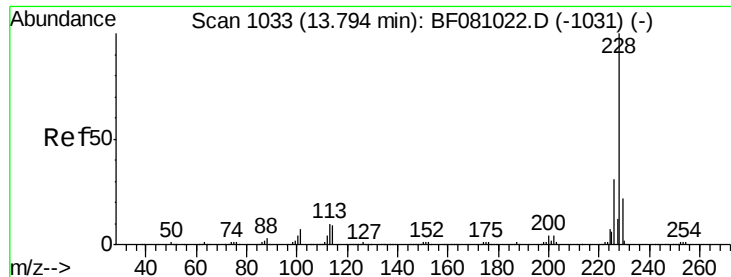
Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Tgt Ion:	228	Resp:	250758
Ion Ratio	Lower	Upper	
228	100		
226	28.2	22.3	33.5
229	21.1	15.9	23.9





#82

Chrysene

Concen: 20.34 ng m

RT: 13.69 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Instrument :

BNA_F

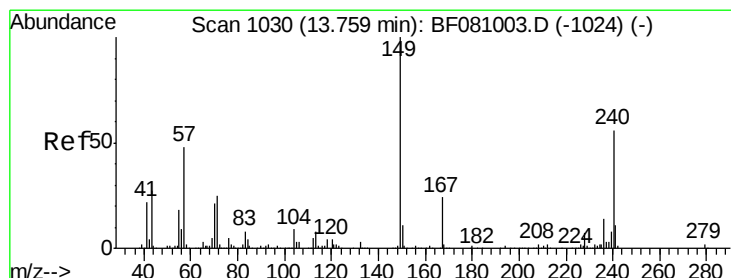
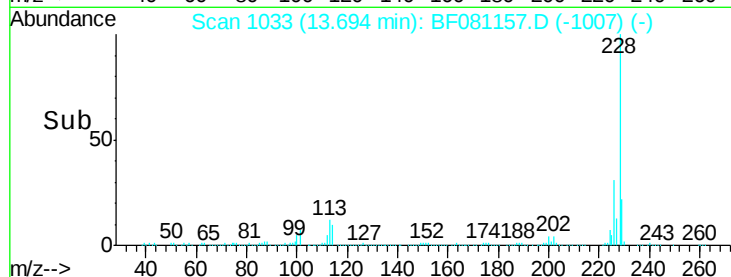
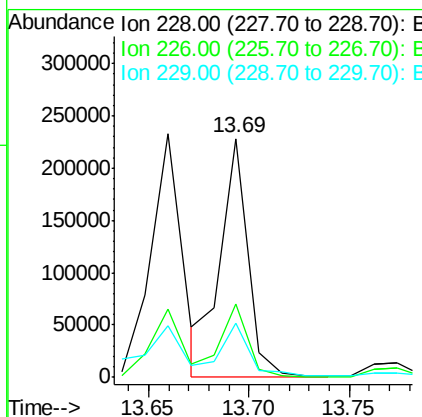
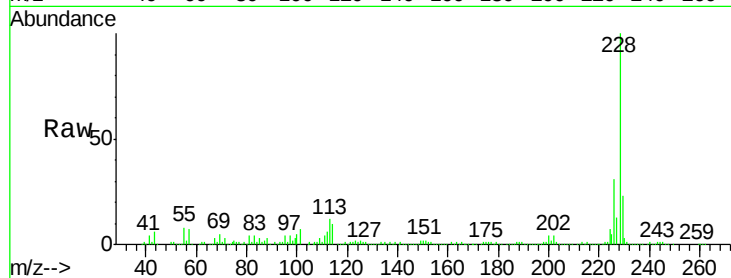
ClientSampleId :

TEC-C1

Tgt Ion:	228	Resp:	222880
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.4	36.6
229	22.8	16.0	24.0

Manual Integrations
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#83

Bis(2-ethylhexyl)phthalate

Concen: 2.30 ng

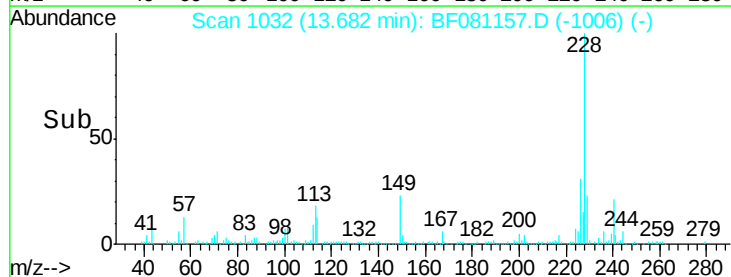
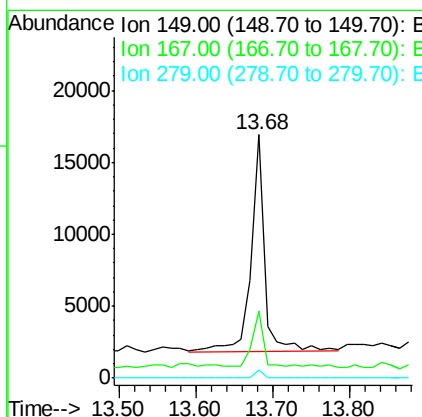
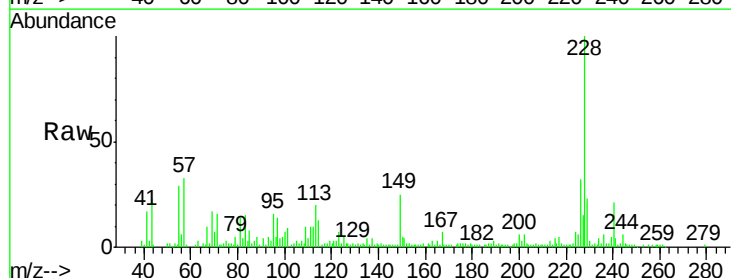
RT: 13.68 min Scan# 1032

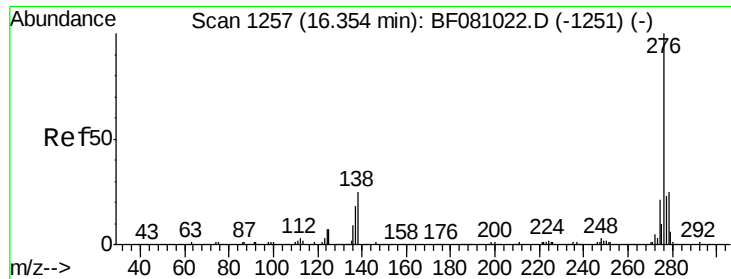
Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Tgt Ion:	149	Resp:	18640
Ion Ratio	Lower	Upper	
149	100		
167	27.4	20.7	31.1
279	3.1	2.2	3.4





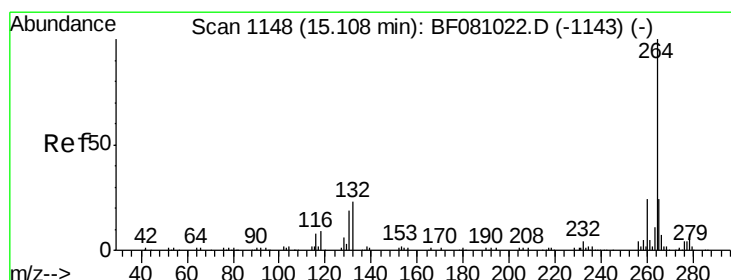
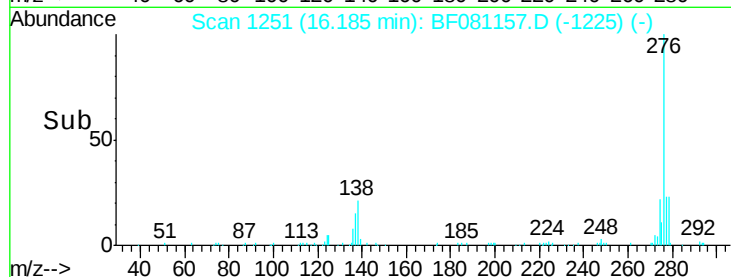
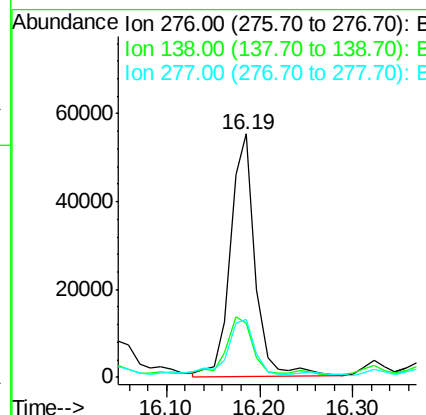
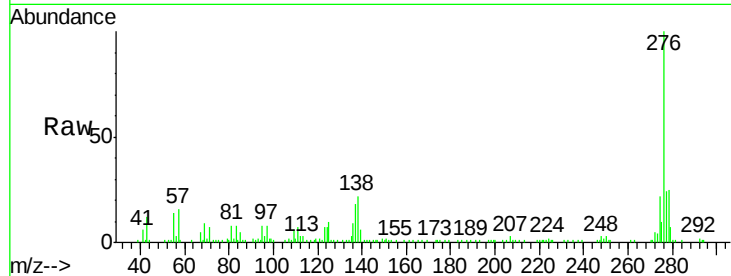
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.34 ng
 RT: 16.19 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

Instrument :
 BNA_F
 ClientSampleId :
 TEC-C1

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	102620		
138	25.3	18.6	28.0	
277	27.9	19.8	29.8	

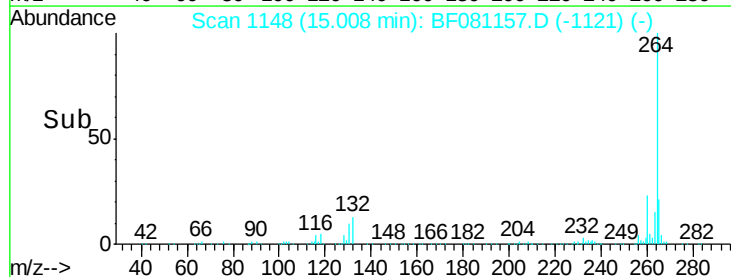
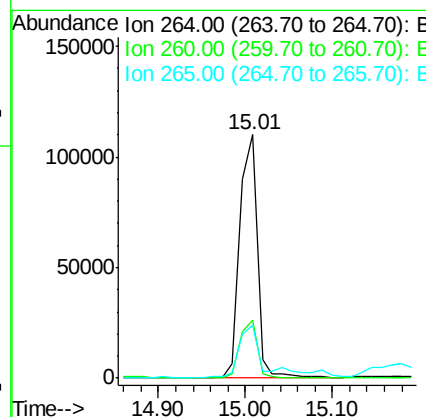
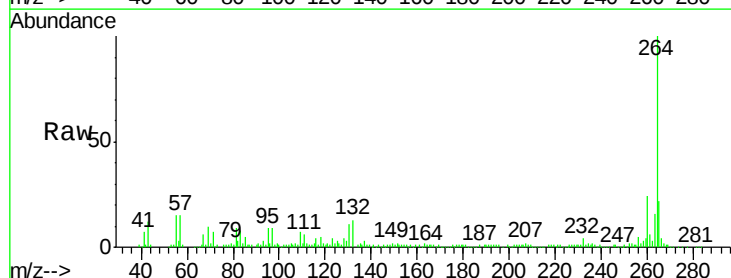
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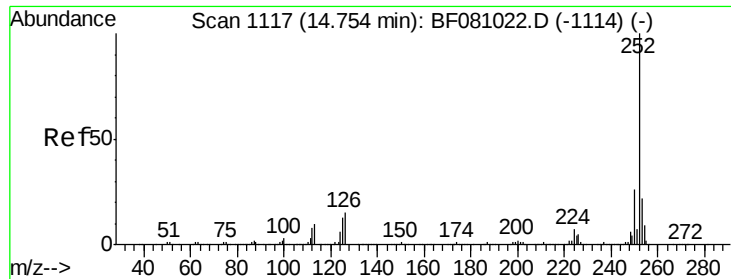
MMDadoda
 8/24/2015 11:24:02 AM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.01 min Scan# 1148
 Delta R.T. 0.01 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	153567		
260	23.7	19.6	29.4	
265	21.7	17.5	26.3	





#87

Benzo(b)fluoranthene

Concen: 22.15 ng m

RT: 14.65 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Instrument :

BNA_F

ClientSampleId :

TEC-C1

Tgt Ion: 252 Resp: 240583

Ion Ratio Lower Upper

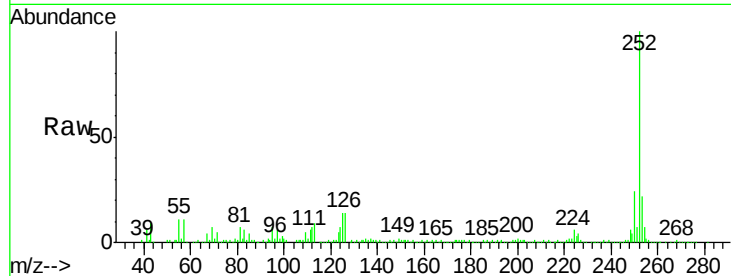
252 100

253 22.5 17.1 25.7

125 13.7 8.0 12.0#

Manual Integrations
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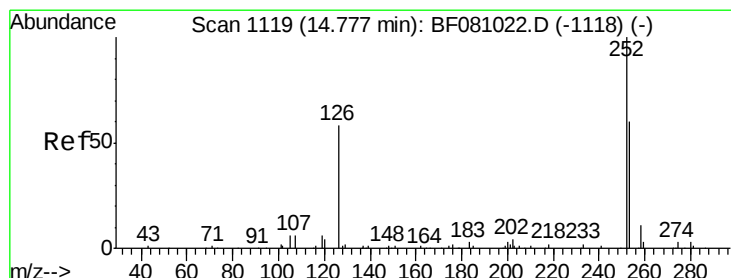
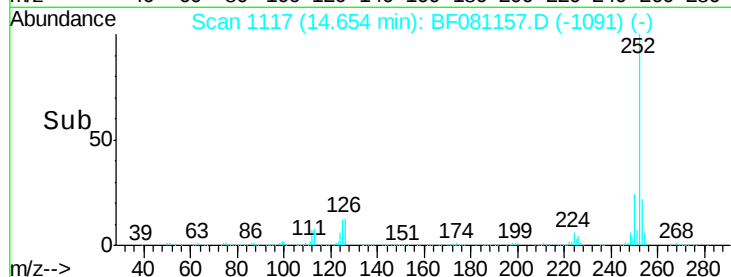
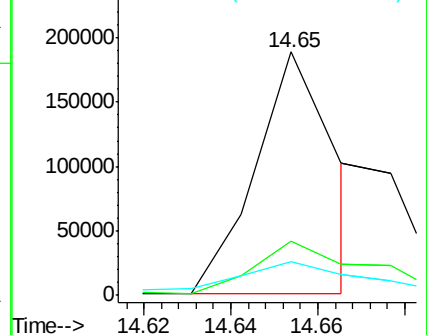
MMDadoda
8/24/2015 11:24:02 AM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 6.66 ng m

RT: 14.67 min Scan# 1118

Delta R.T. -0.01 min

Lab File: BF081157.D

Acq: 21 Aug 2015 21:19

Tgt Ion: 252 Resp: 67421

Ion Ratio Lower Upper

252 100

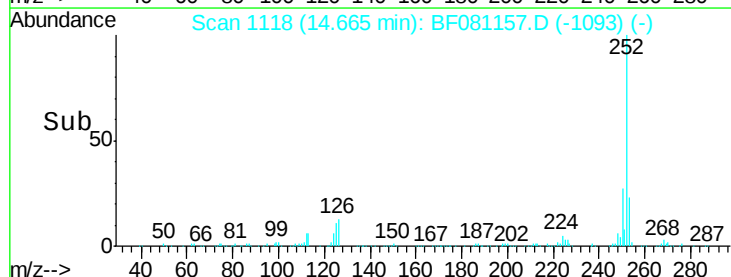
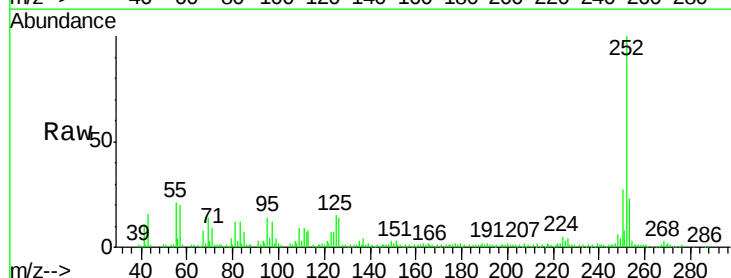
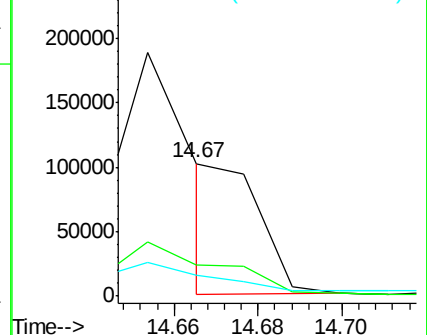
253 23.3 17.6 26.4

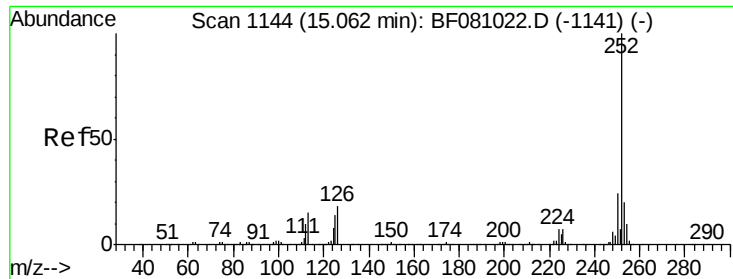
125 15.5 10.3 15.5#

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





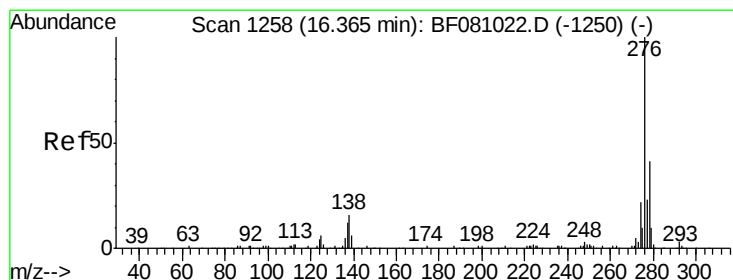
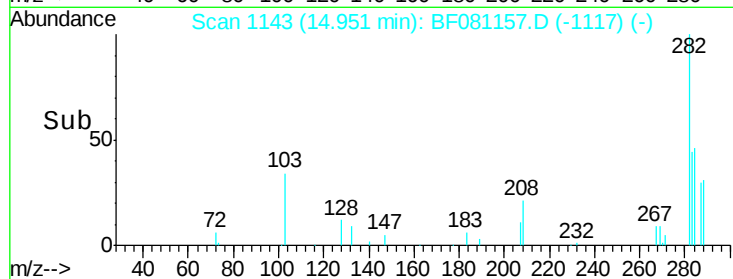
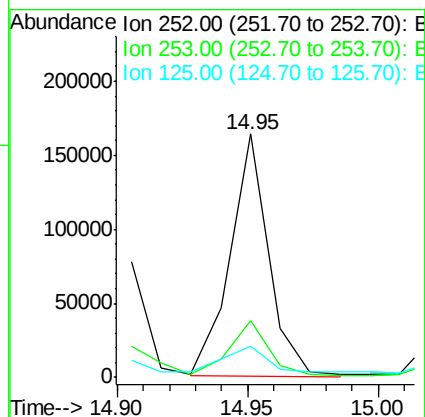
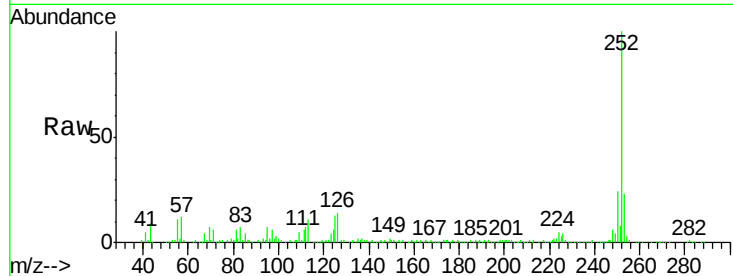
#89
Benzo(a)pyrene
Concen: 17.88 ng
RT: 14.95 min Scan# 1143
Delta R.T. -0.00 min
Lab File: BF081157.D
Acq: 21 Aug 2015 21:19

Instrument :
BNA_F
ClientSampled :
TEC-C1

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	169185		
253	23.1	16.6	25.0	
125	13.0	7.8	11.8#	

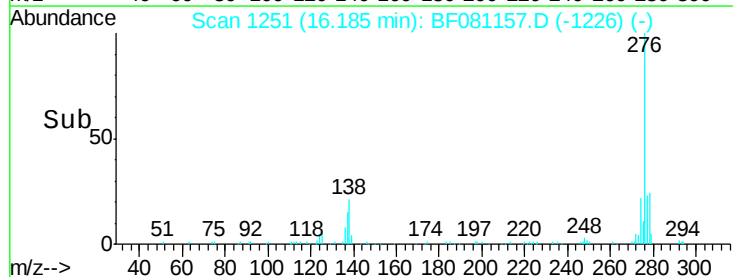
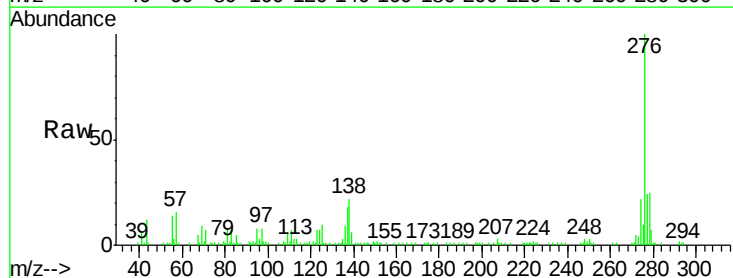
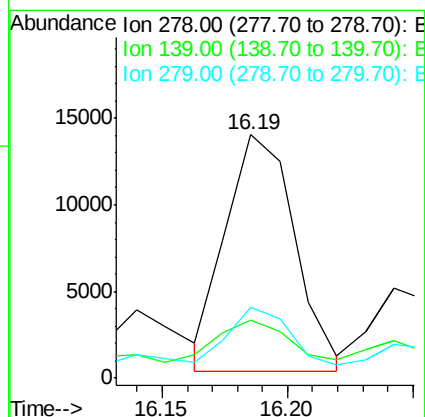
Manual Integrations
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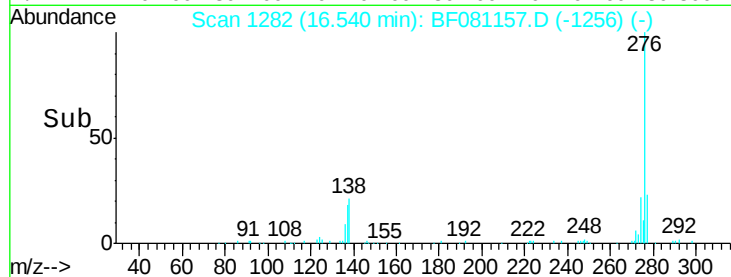
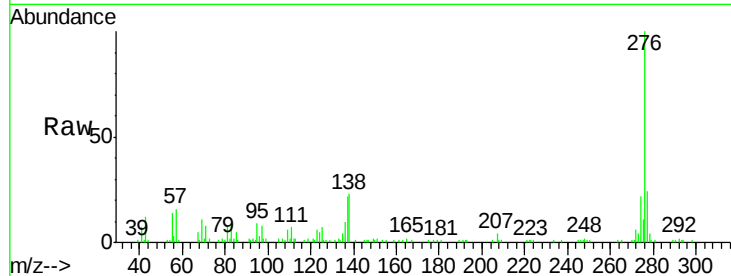
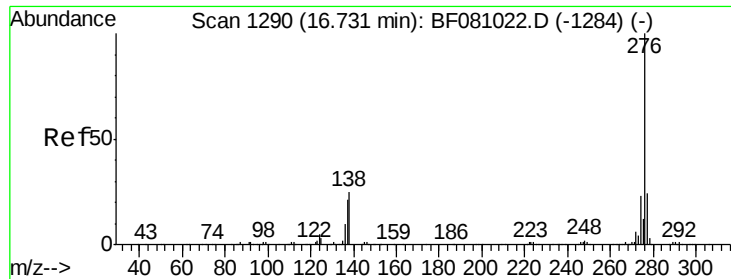
MMDadoda
8/24/2015 11:24:02 AM



#90
Dibenzo(a,h)anthracene
Concen: 3.55 ng m
RT: 16.19 min Scan# 1251
Delta R.T. -0.01 min
Lab File: BF081157.D
Acq: 21 Aug 2015 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	26189		
139	23.6	10.8	16.2#	
279	29.2	19.0	28.6#	





#91
 Benzo(g,h,i)perylene
 Concen: 11.45 ng
 RT: 16.54 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: BF081157.D
 Acq: 21 Aug 2015 21:19

Instrument :
 BNA_F
 ClientSampleId :
 TEC-C1

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.2	27.2
138	23.4	13.7	20.5

Manual Integrations
 APPROVED

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