

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111518\
 Data File : VF060745.D
 Acq On : 15 Nov 2018 14:27
 Operator : VA/AP
 Sample : J5915-08
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 T-8

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:25:47 PM

Quant Time: Nov 16 04:46:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	248040	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	439036	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.76	117	372753	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	196368	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	112443	39.74	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	79.48%	
35) Dibromofluoromethane	4.09	113	128449	38.92	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	77.84%	
50) Toluene-d8	7.54	98	327424	37.76	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	75.52%	
62) 4-Bromofluorobenzene	11.40	95	163805	41.23	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	82.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Methylene Chloride	2.23	84	17904m	6.41	ug/l	
39) Methylcyclohexane	5.44	83	81149	13.74	ug/l	# 78
52) Toluene	7.61	92	17986	2.36	ug/l	99
67) Ethyl Benzene	9.89	91	407850	28.77	ug/l	99
68) m/p-Xylenes	10.12	106	626475	123.64	ug/l	98
69) o-Xylene	10.70	106	227546	39.94	ug/l	98
73) Isopropylbenzene	11.11	105	187448	11.86	ug/l	97
78) n-propylbenzene	11.59	91	1069278	58.00	ug/l	99
80) 1,3,5-Trimethylbenzene	11.81	105	1306512	104.11	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	2937850	226.37	ug/l	93
85) sec-Butylbenzene	12.30	105	251348	13.91	ug/l	# 62
86) p-Isopropyltoluene	12.45	119	86387m	5.72	ug/l	
89) n-Butylbenzene	12.84	91	851732	55.29	ug/l	# 75
95) Naphthalene	14.45	128	312188	38.61	ug/l	# 95

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

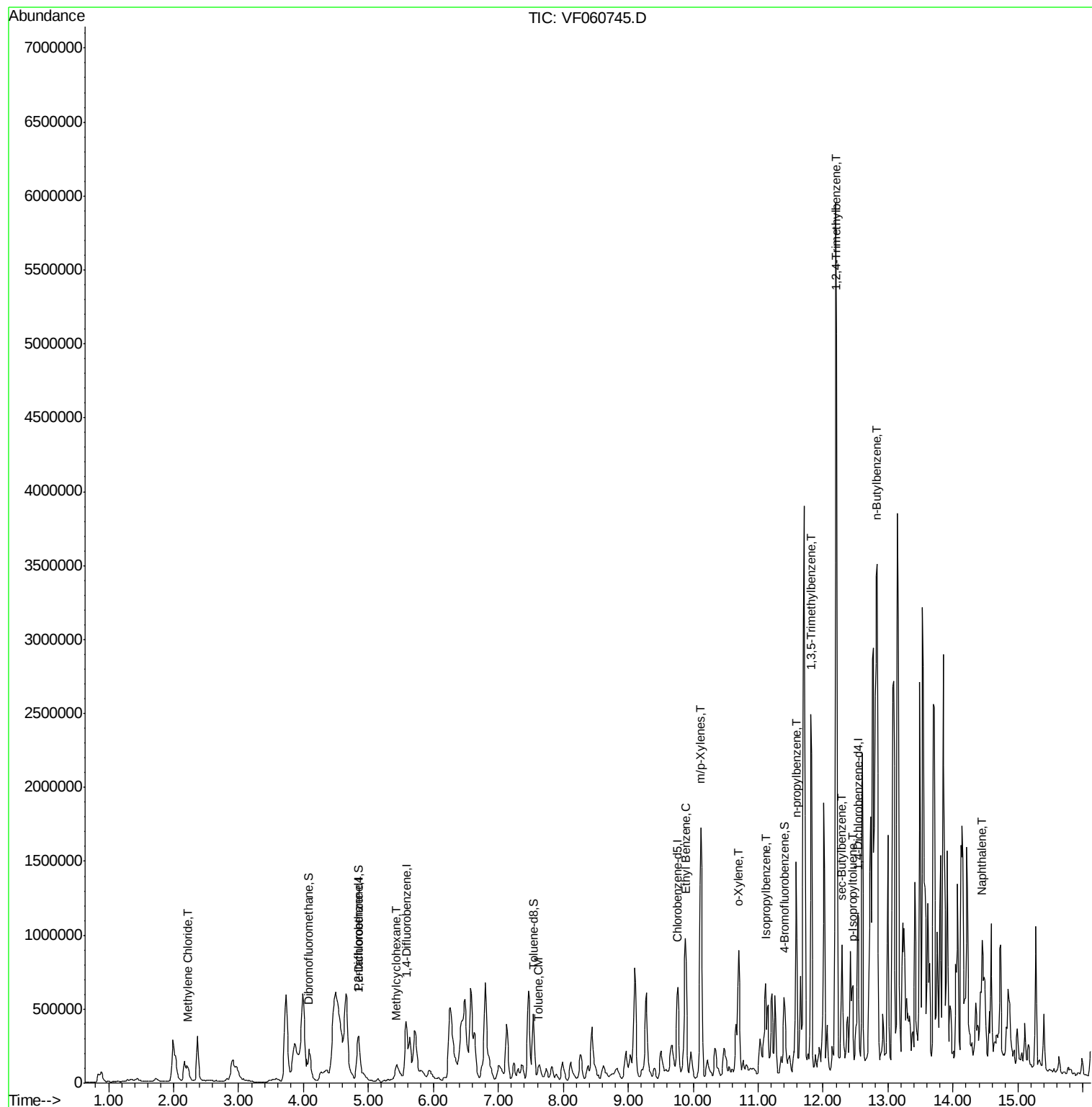
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF111518\
Data File : VF060745.D
Acq On : 15 Nov 2018 14:27
Operator : VA/AP
Sample : J5915-08
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
T-8

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:25:47 PM

Quant Time: Nov 16 04:46:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF060745.D

Acq: 15 Nov 2018 14:27

Instrument :

MSVOA_F

ClientSampled :

T-8

Tgt Ion: 168 Resp: 248040

Ion Ratio Lower Upper

168 100

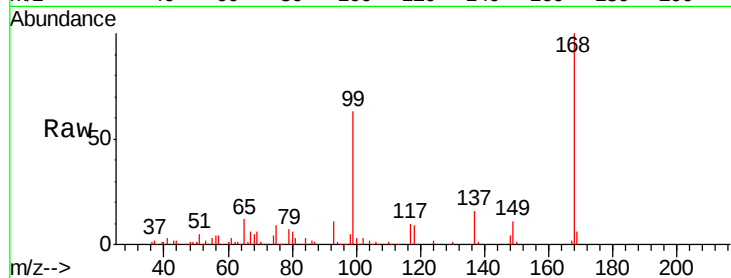
99 63.5 57.2 85.8

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:25:47 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

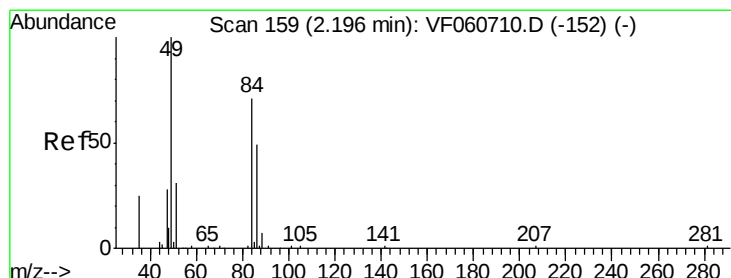
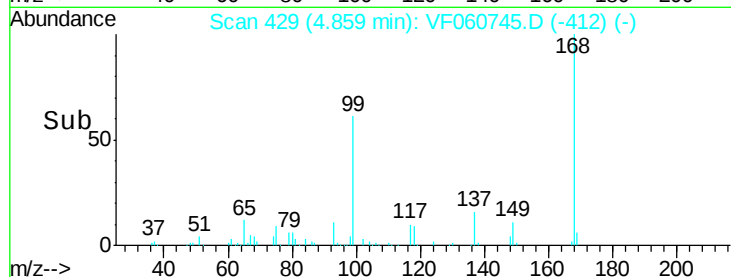
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 6.41 ug/l m

RT: 2.23 min Scan# 162

Delta R.T. 0.03 min

Lab File: VF060745.D

Acq: 15 Nov 2018 14:27

Tgt Ion: 84 Resp: 17904

Ion Ratio Lower Upper

84 100

49 116.0 120.2 180.4#

51 57.8 37.2 55.8#

86 65.0 55.1 82.7

Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

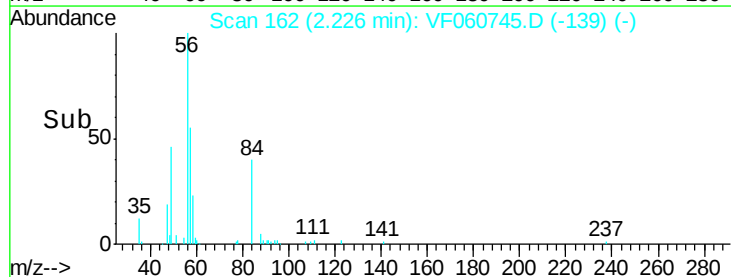
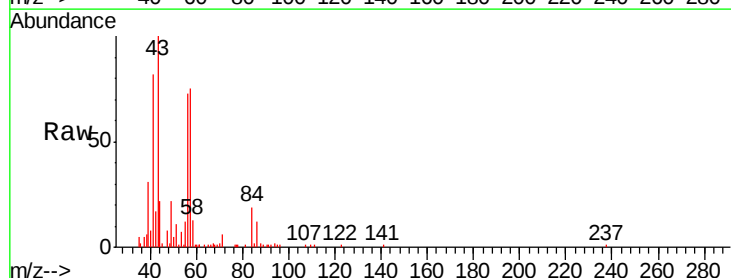
15000

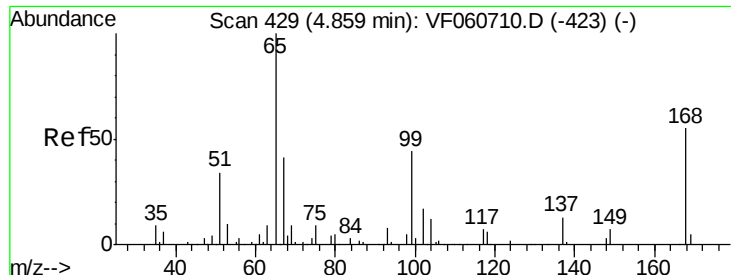
10000

5000

0

Time-->





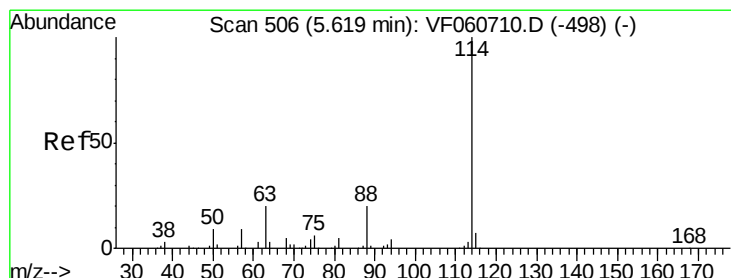
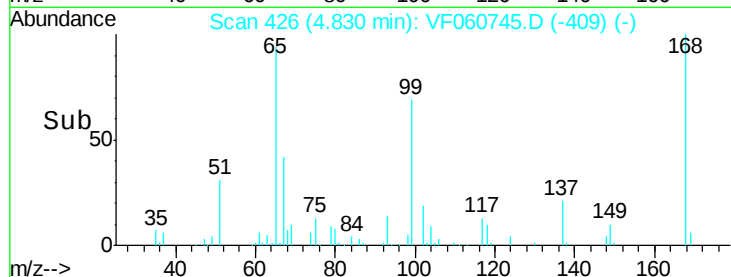
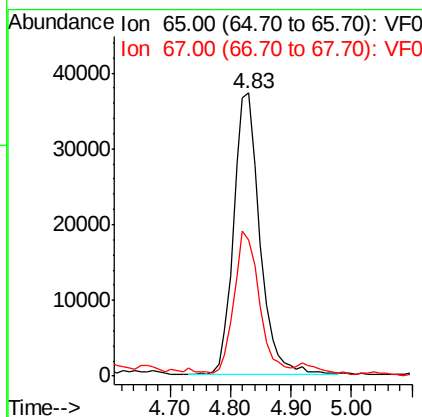
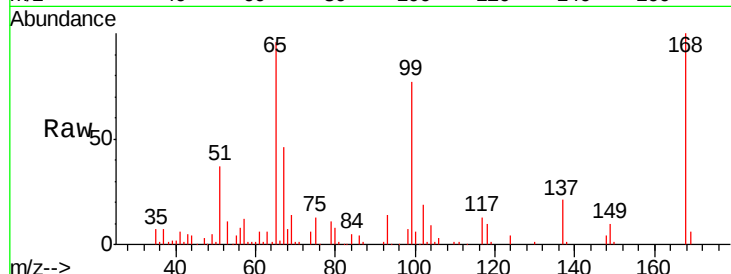
#33
 1,2-Dichloroethane-d4
 Concen: 39.74 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.03 min
 Lab File: VF060745.D
 Acq: 15 Nov 2018 14:27

Instrument :
 MSVOA_F
 ClientSampleId :
 T-8

Tgt Ion: 65 Resp: 112443
 Ion Ratio Lower Upper
 65 100
 67 48.1 0.0 90.2

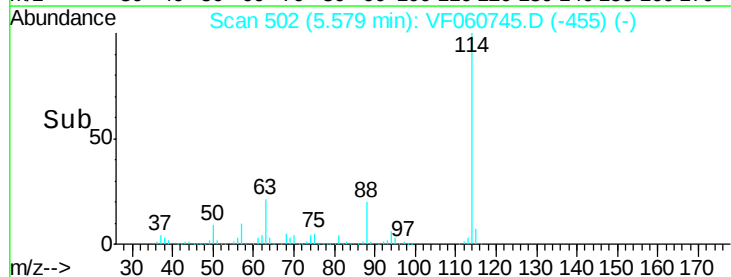
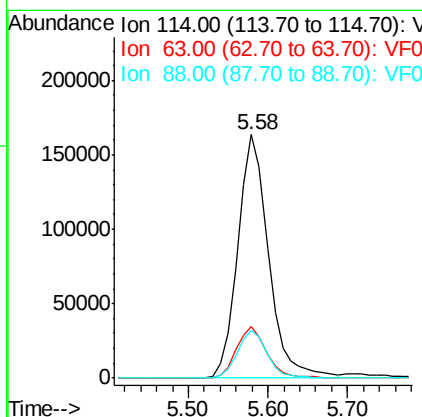
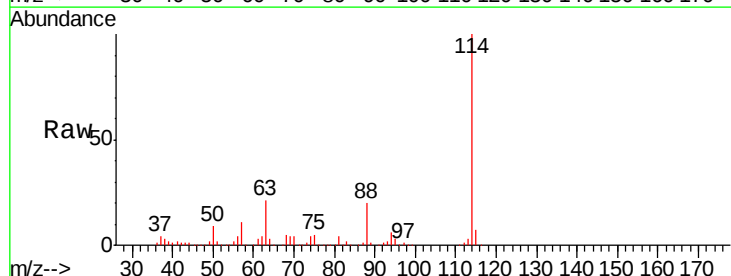
Manual Integrations
 APPROVED

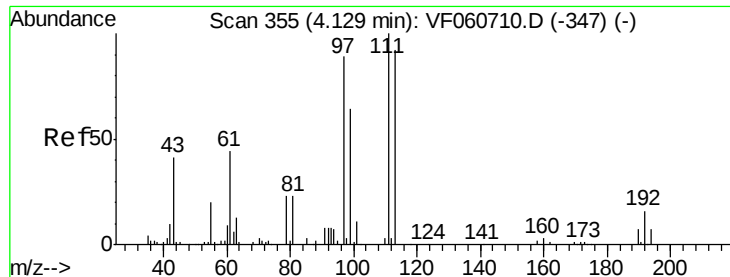
MMDadoda
 11/16/2018 1:25:47 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.04 min
 Lab File: VF060745.D
 Acq: 15 Nov 2018 14:27

Tgt Ion: 114 Resp: 439036
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 40.8
 88 19.7 0.0 39.6





#35

Dibromofluoromethane

Concen: 38.92 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF060745.D

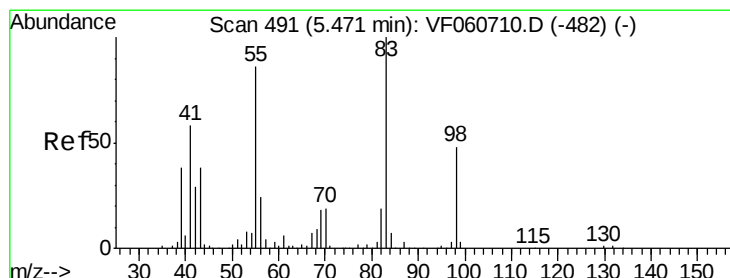
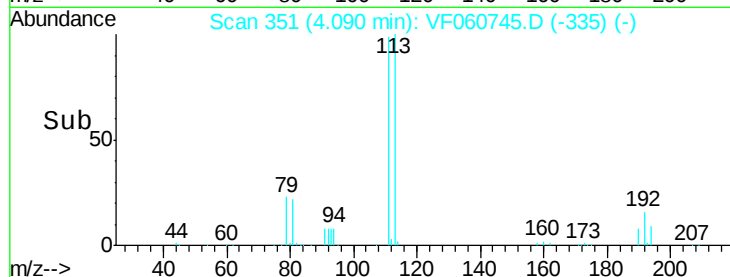
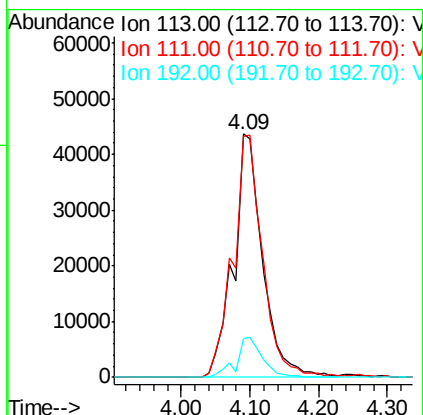
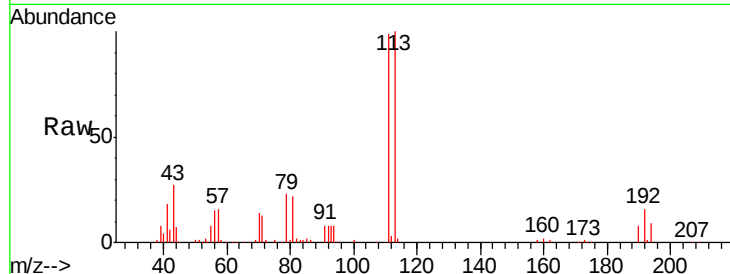
Acq: 15 Nov 2018 14:27

Instrument :
MSVOA_F
ClientSampled :
T-8

Tgt Ion:	113	Resp:	128449
Ion Ratio	Lower	Upper	
113	100		
111	98.8	87.1	130.7
192	16.1	13.8	20.6

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:25:47 PM



#39

Methylcyclohexane

Concen: 13.74 ug/l

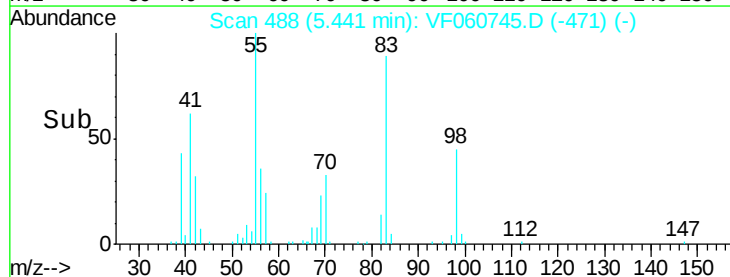
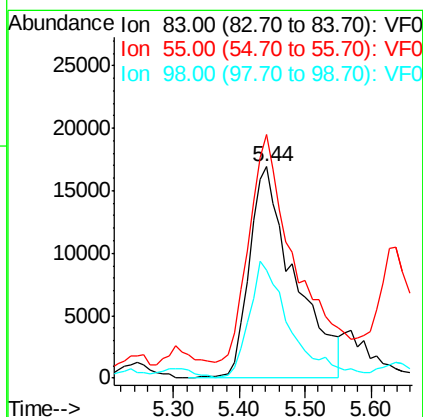
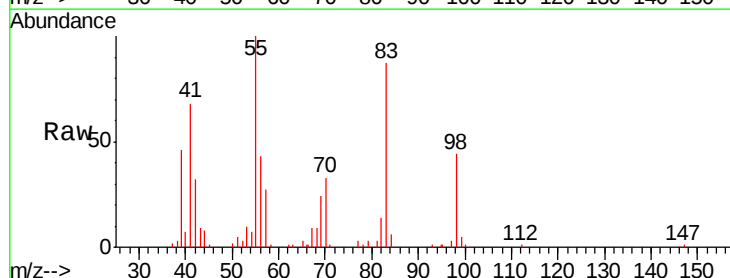
RT: 5.44 min Scan# 488

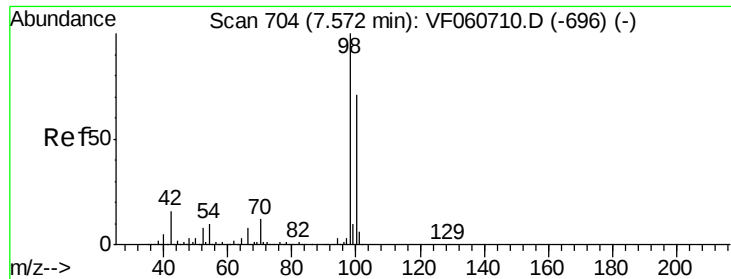
Delta R.T. -0.03 min

Lab File: VF060745.D

Acq: 15 Nov 2018 14:27

Tgt Ion:	83	Resp:	81149
Ion Ratio	Lower	Upper	
83	100		
55	115.3	69.0	103.4#
98	51.3	38.5	57.7





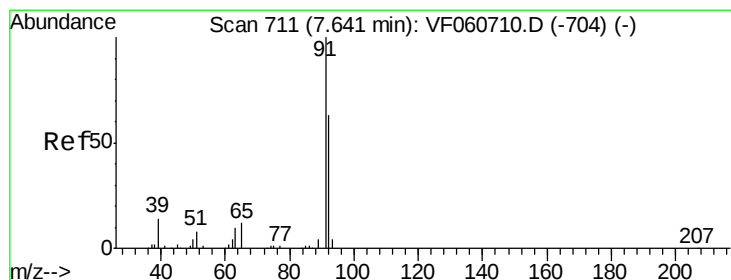
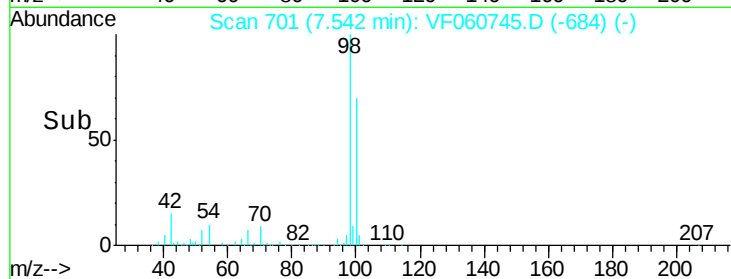
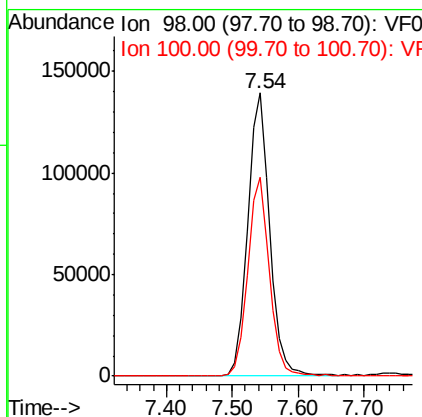
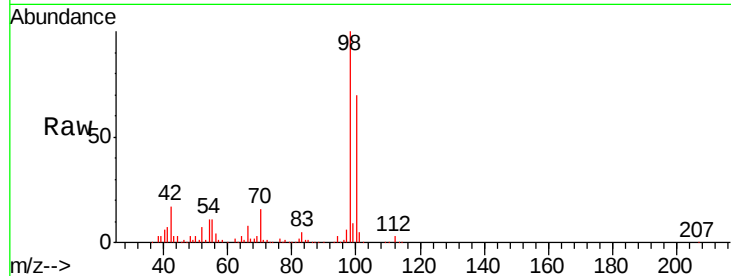
#50
Toluene-d8
Concen: 37.76 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.03 min
Lab File: VF060745.D
Acq: 15 Nov 2018 14:27

Instrument :
MSVOA_F
ClientSampled :
T-8

Tgt Ion: 98 Resp: 327424
Ion Ratio Lower Upper
98 100
100 70.2 56.5 84.7

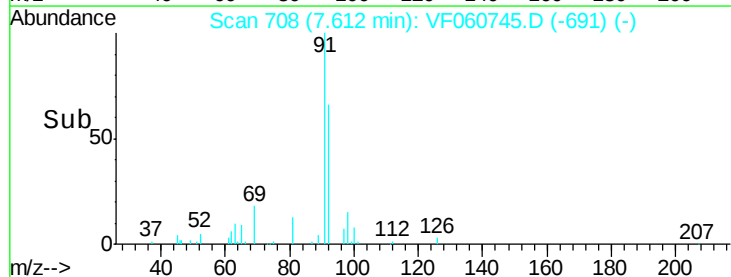
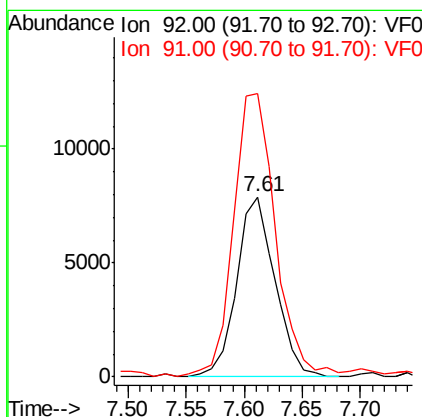
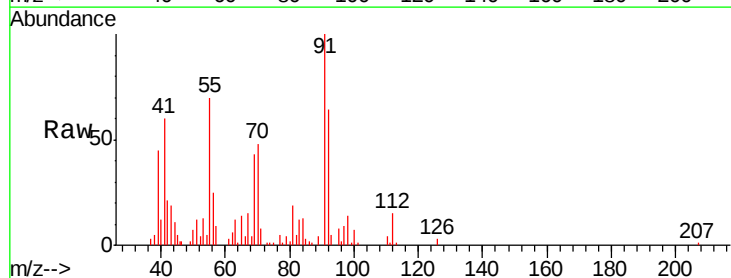
Manual Integrations
APPROVED

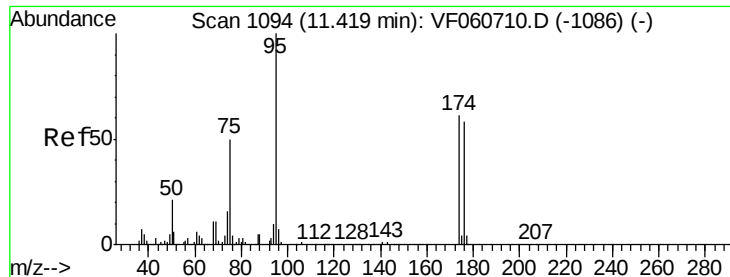
MMDadoda
11/16/2018 1:25:47 PM



#52
Toluene
Concen: 2.36 ug/l
RT: 7.61 min Scan# 708
Delta R.T. -0.03 min
Lab File: VF060745.D
Acq: 15 Nov 2018 14:27

Tgt Ion: 92 Resp: 17986
Ion Ratio Lower Upper
92 100
91 157.4 126.7 190.1





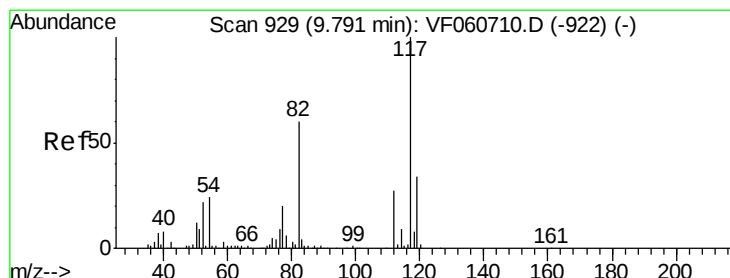
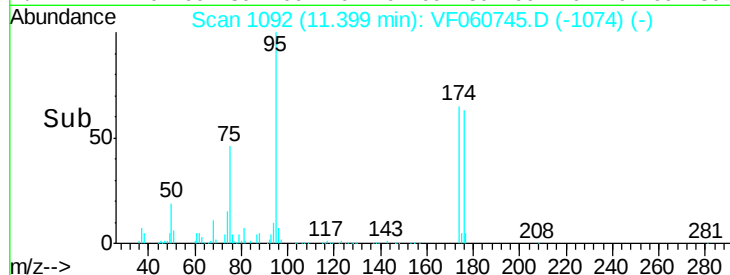
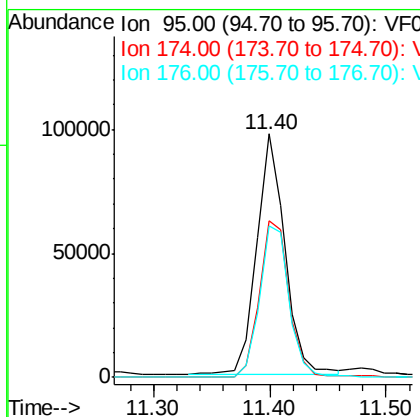
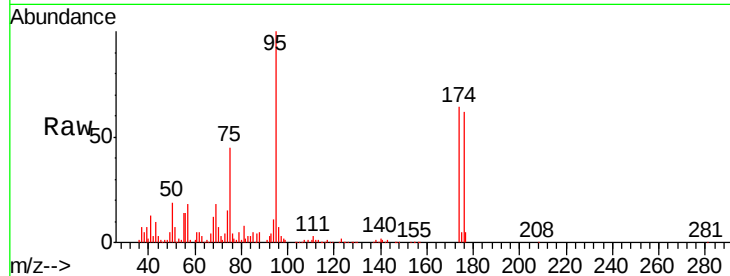
#62
4-Bromofluorobenzene
Concen: 41.23 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.02 min
Lab File: VF060745.D
Acq: 15 Nov 2018 14:27

Instrument :
MSVOA_F
ClientSampled :
T-8

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	163805		
174	64.2	0.0	121.6	
176	62.2	0.0	115.2	

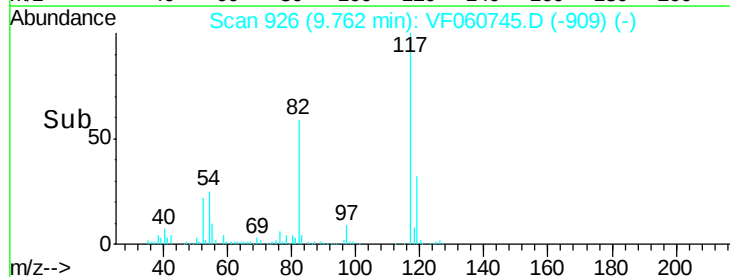
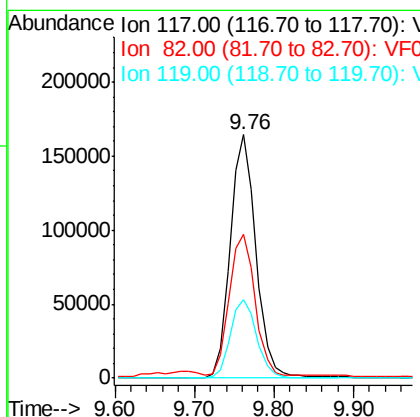
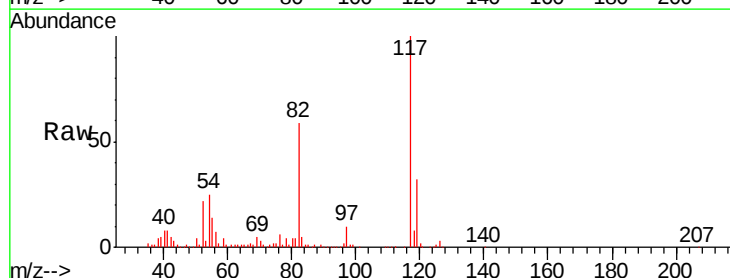
Manual Integrations
APPROVED

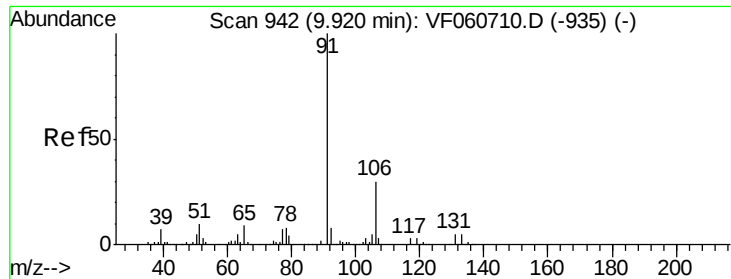
MMDadoda
11/16/2018 1:25:47 PM



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF060745.D
Acq: 15 Nov 2018 14:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	372753		
82	59.2	47.9	71.9	
119	32.5	26.8	40.2	





#67

Ethyl Benzene

Concen: 28.77 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.03 min

Lab File: VF060745.D

Acq: 15 Nov 2018 14:27

Instrument :

MSVOA_F

ClientSampled :

T-8

Tgt Ion: 91 Resp: 407850

Ion Ratio Lower Upper

91 100

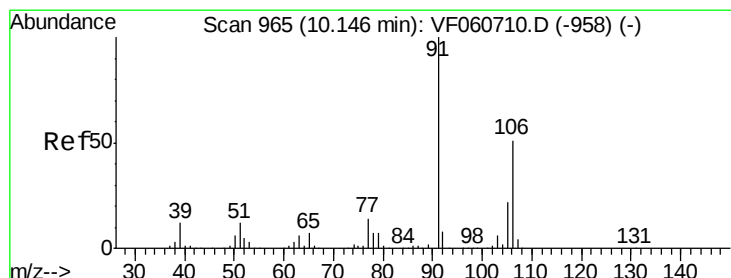
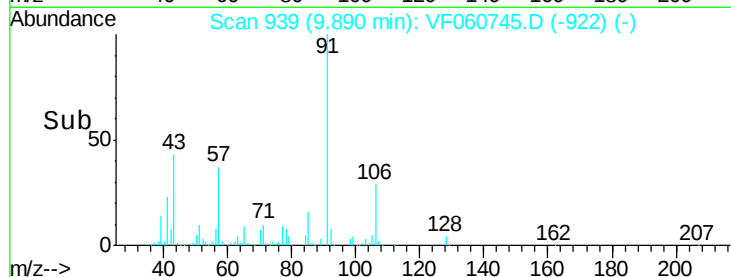
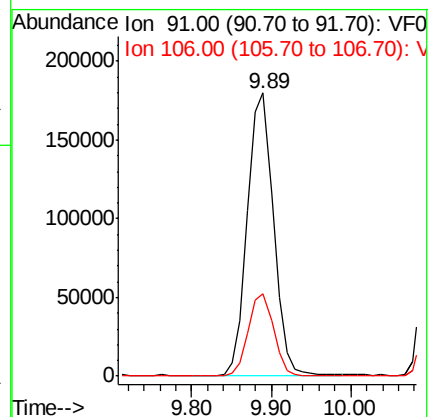
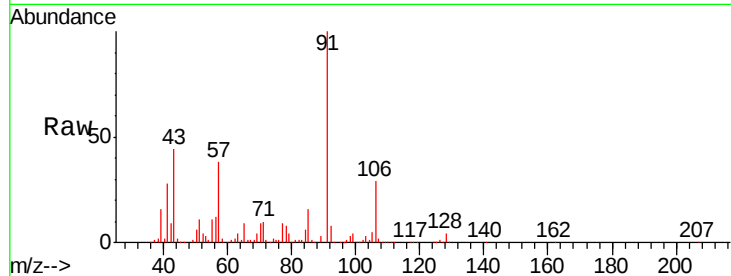
106 29.3 23.9 35.9

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:25:47 PM



#68

m/p-Xylenes

Concen: 123.64 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF060745.D

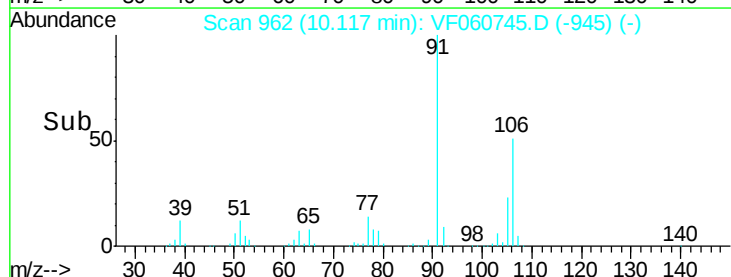
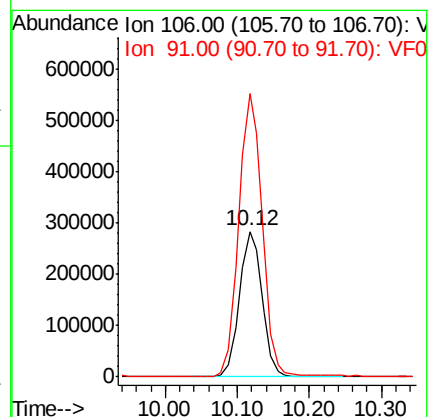
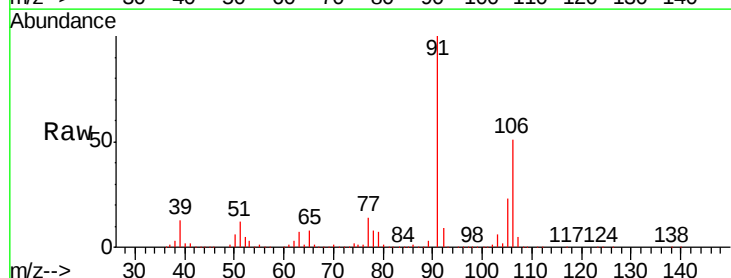
Acq: 15 Nov 2018 14:27

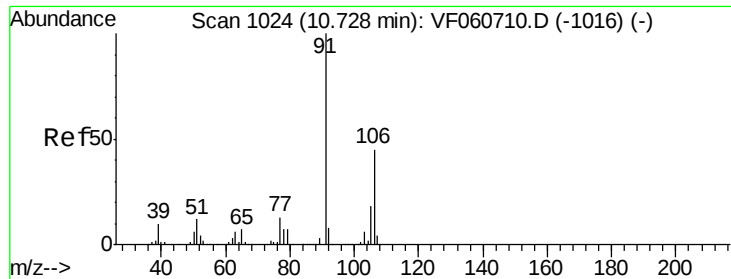
Tgt Ion: 106 Resp: 626475

Ion Ratio Lower Upper

106 100

91 194.5 158.2 237.2





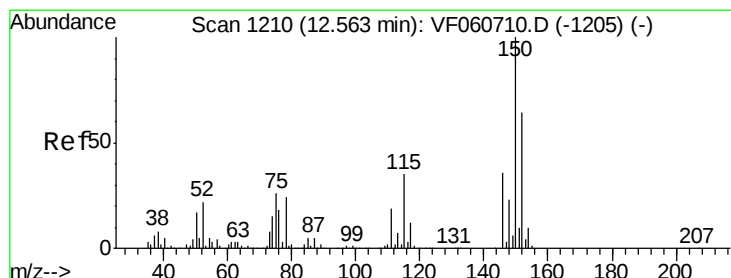
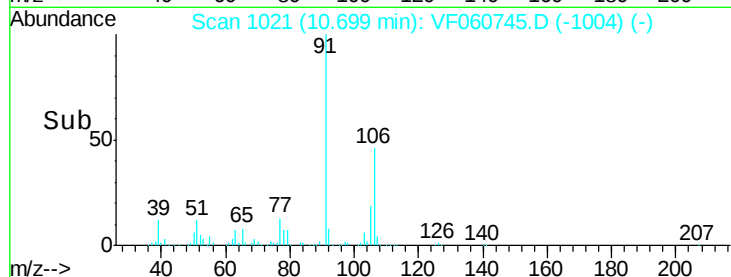
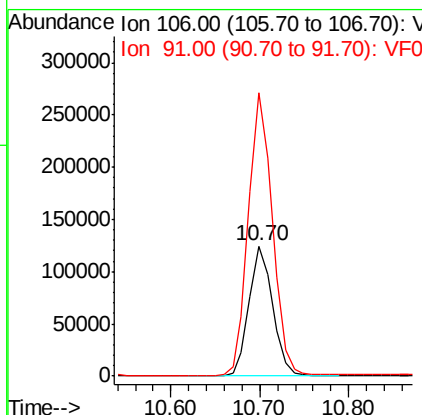
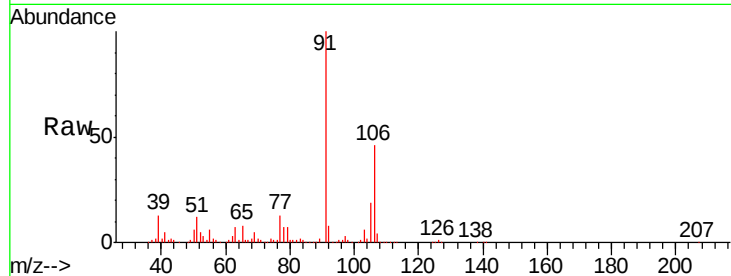
#69
o-Xylene
Concen: 39.94 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF060745.D
Acq: 15 Nov 2018 14:27

Instrument :
MSVOA_F
ClientSampled :
T-8

Tgt Ion:106 Resp: 227546
Ion Ratio Lower Upper
106 100
91 217.6 110.3 330.9

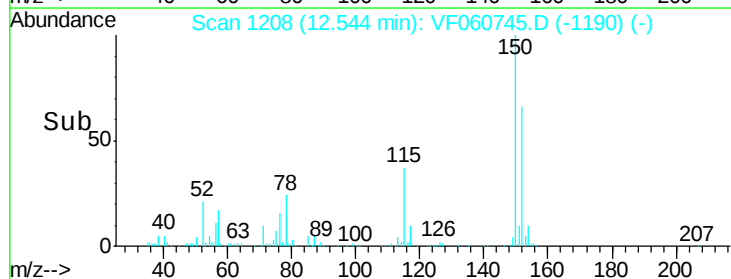
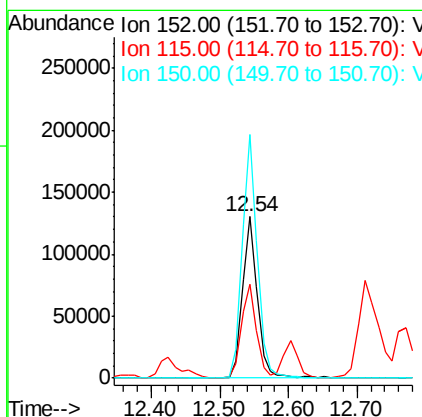
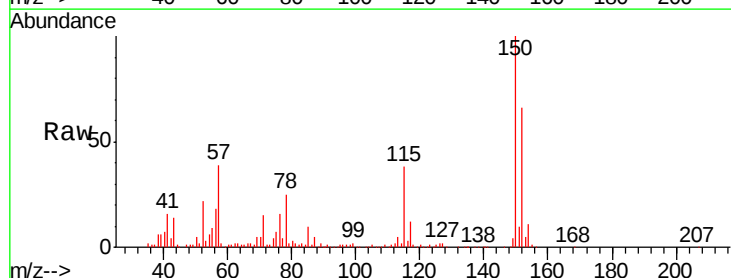
Manual Integrations
APPROVED

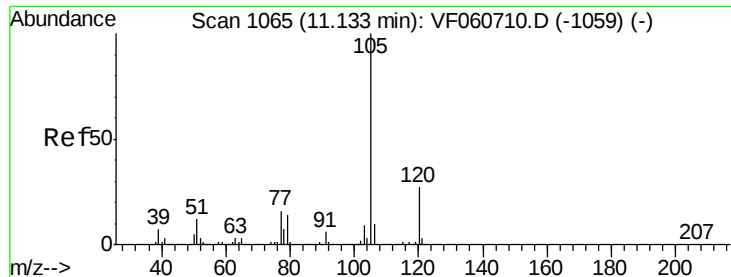
MMDadoda
11/16/2018 1:25:47 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF060745.D
Acq: 15 Nov 2018 14:27

Tgt Ion:152 Resp: 196368
Ion Ratio Lower Upper
152 100
115 57.9 27.9 83.7
150 150.9 0.0 316.4





#73

Isopropylbenzene

Concen: 11.86 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF060745.D

Acq: 15 Nov 2018 14:27

Instrument :

MSVOA_F

ClientSampled :

T-8

Tgt Ion: 105 Resp: 187448

Ion Ratio Lower Upper

105 100

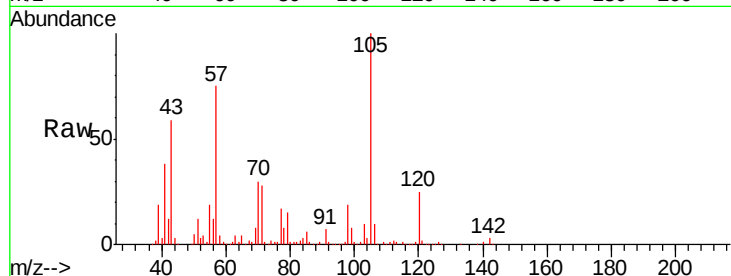
120 25.1 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

11/16/2018 1:25:47 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

120000

100000

80000

60000

40000

20000

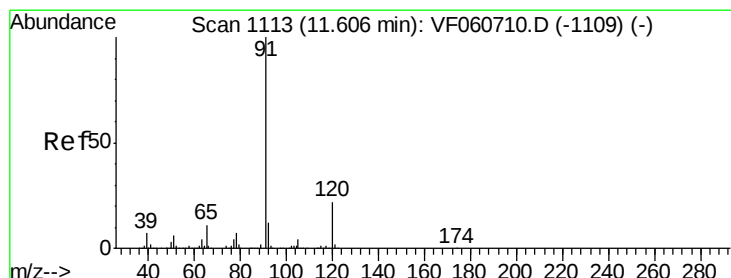
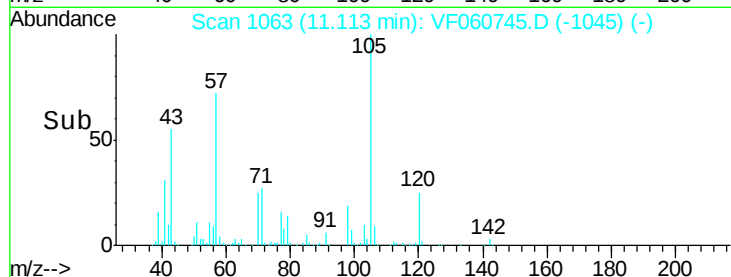
0

11.11

11.10

11.20

Time-->



#78

n-propylbenzene

Concen: 58.00 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF060745.D

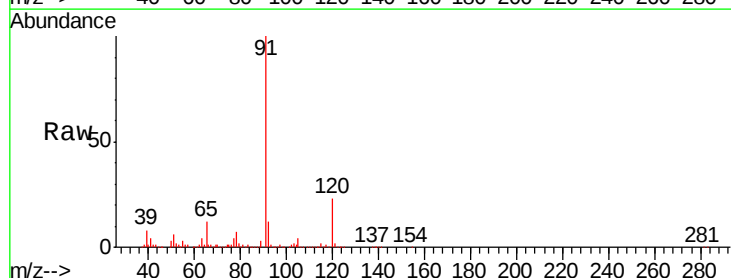
Acq: 15 Nov 2018 14:27

Tgt Ion: 91 Resp: 1069278

Ion Ratio Lower Upper

91 100

120 23.0 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

600000

400000

200000

0

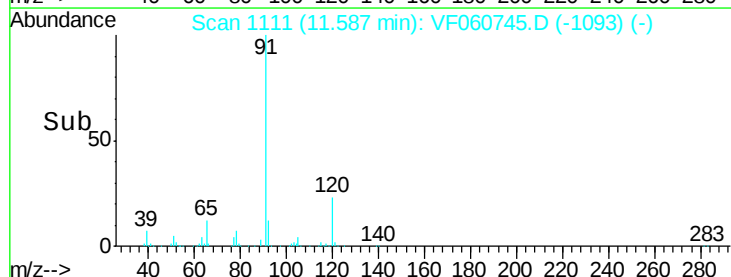
11.59

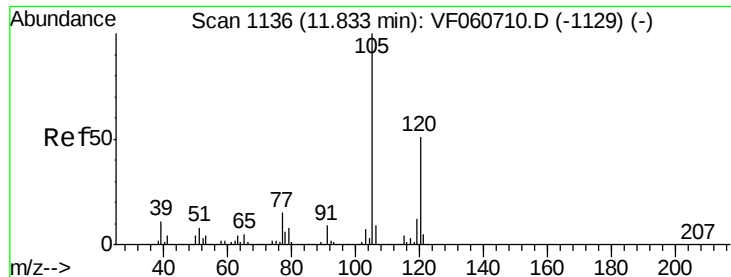
11.50

11.60

11.70

Time-->





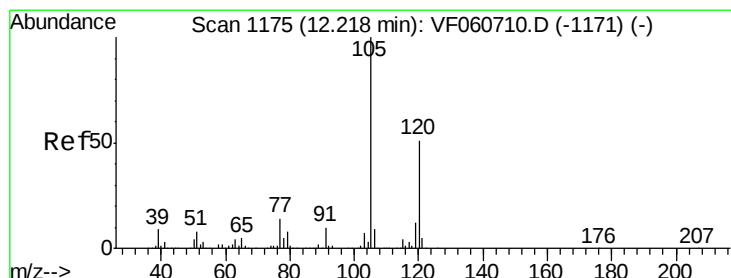
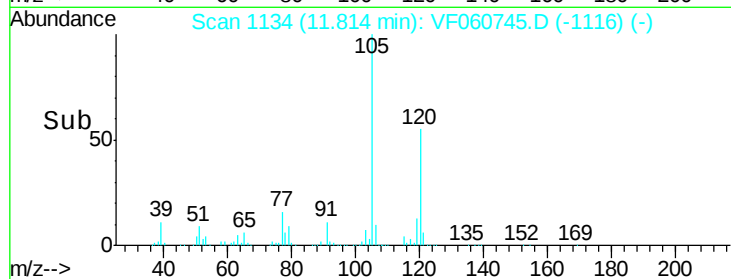
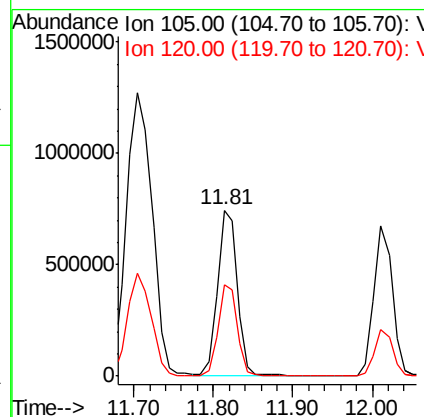
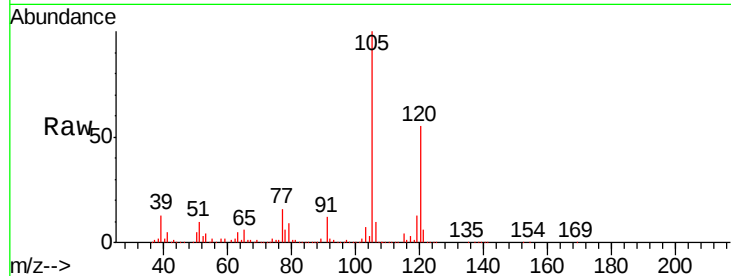
#80
 1,3,5-Trimethylbenzene
 Concen: 104.11 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. -0.02 min
 Lab File: VF060745.D
 Acq: 15 Nov 2018 14:27

Instrument :
 MSVOA_F
 ClientSampled :
 T-8

Tgt Ion:105 Resp: 1306512
 Ion Ratio Lower Upper
 105 100
 120 54.8 25.6 76.8

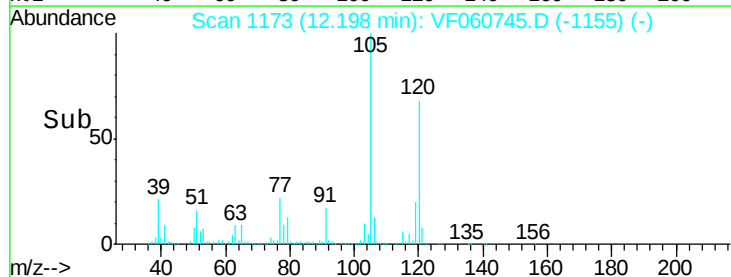
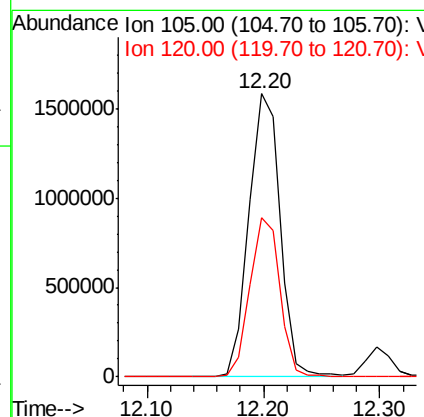
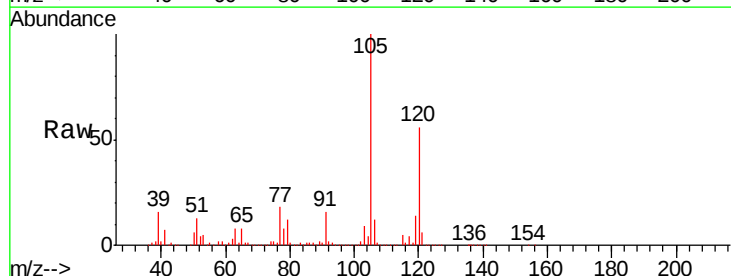
Manual Integrations
 APPROVED

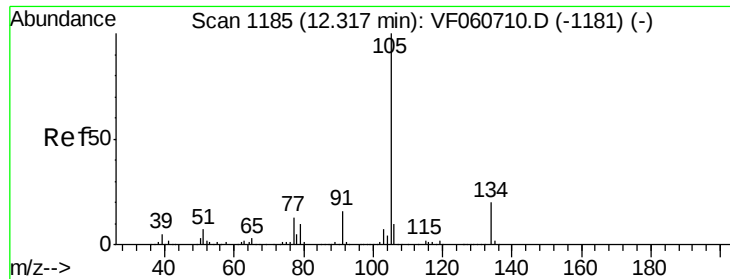
MMDadoda
 11/16/2018 1:25:47 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 226.37 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF060745.D
 Acq: 15 Nov 2018 14:27

Tgt Ion:105 Resp: 2937850
 Ion Ratio Lower Upper
 105 100
 120 56.1 25.5 76.5





#85

sec-Butylbenzene

Concen: 13.91 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF060745.D

Acq: 15 Nov 2018 14:27

Instrument :

MSVOA_F

ClientSampleId :

T-8

Tgt Ion:105 Resp: 251348

Ion Ratio Lower Upper

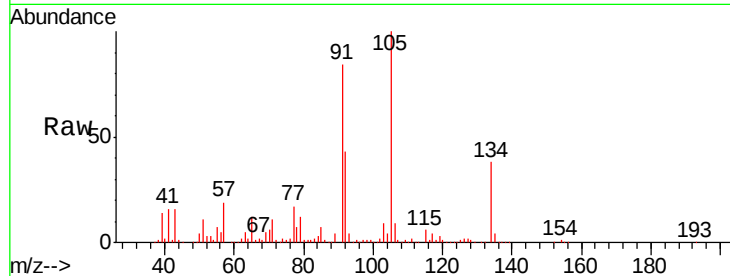
105 100

134 37.6 10.1 30.3#

Manual Integrations
APPROVED

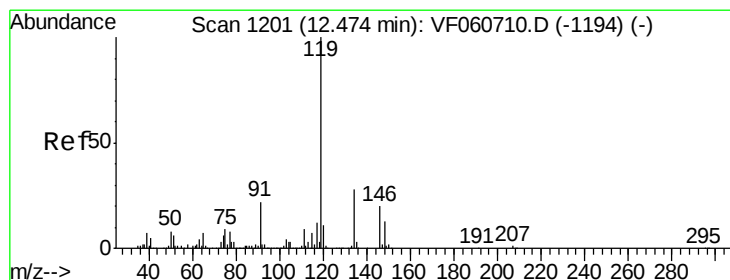
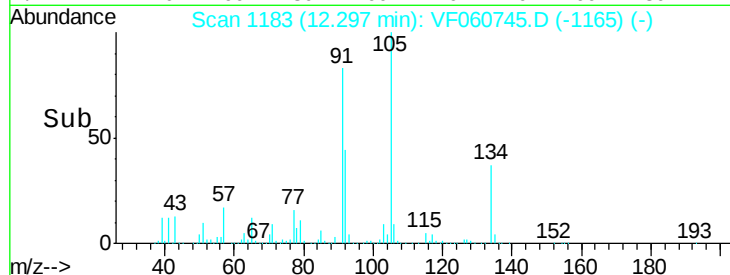
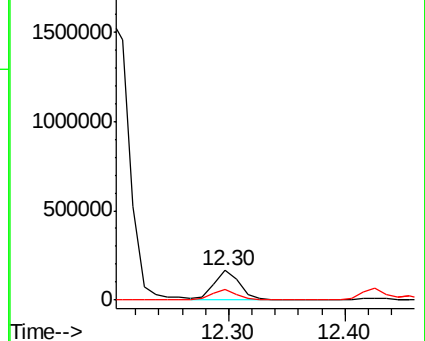
MMDadoda

11/16/2018 1:25:47 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.72 ug/l m

RT: 12.45 min Scan# 1199

Delta R.T. -0.02 min

Lab File: VF060745.D

Acq: 15 Nov 2018 14:27

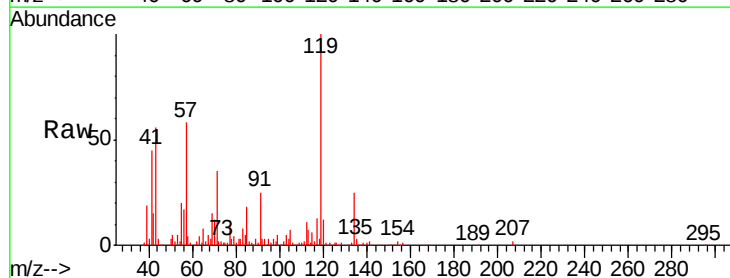
Tgt Ion:119 Resp: 86387

Ion Ratio Lower Upper

119 100

134 24.8 13.9 41.7

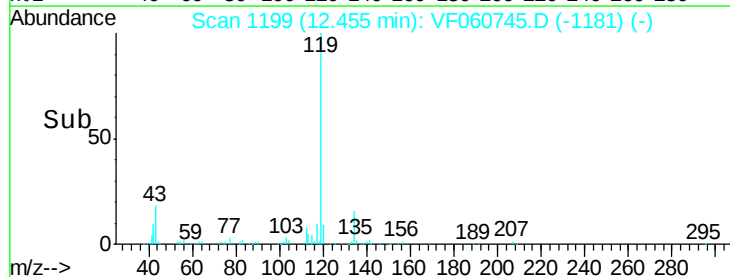
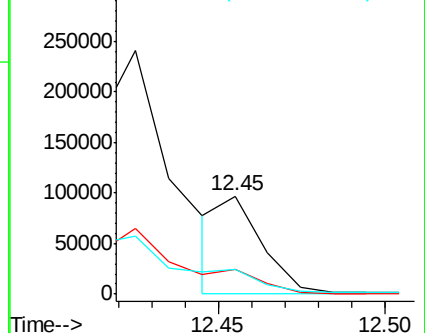
91 25.4 11.3 33.9

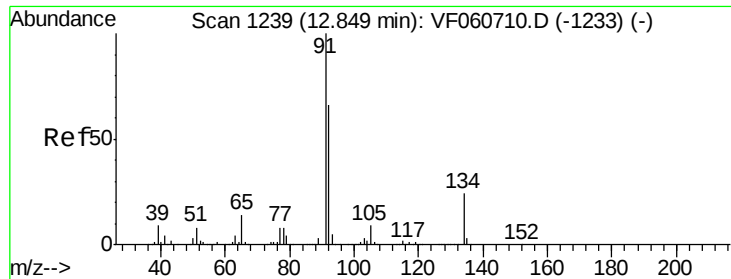


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





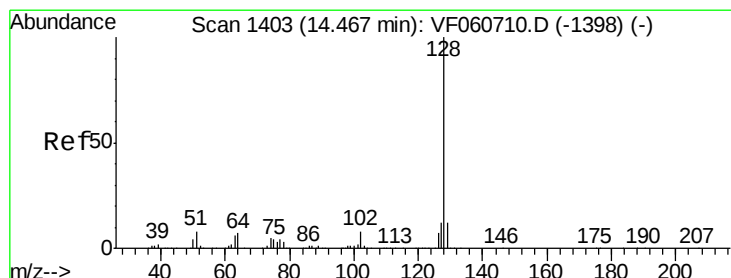
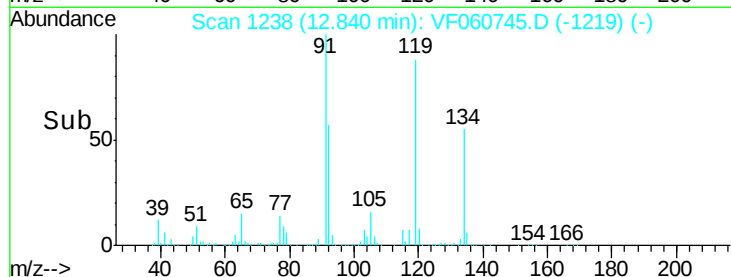
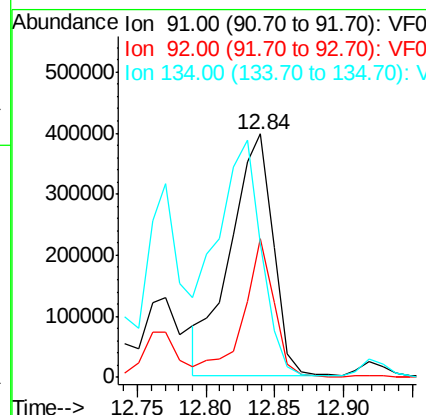
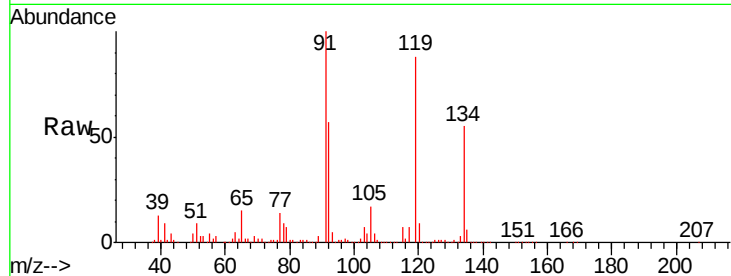
#89
n-Butylbenzene
Concen: 55.29 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF060745.D
Acq: 15 Nov 2018 14:27

Instrument :
MSVOA_F
ClientSampled :
T-8

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	851732		
92	57.0	33.1	99.2	
134	55.0	11.9	35.9#	

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:25:47 PM



#95
Naphthalene
Concen: 38.61 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF060745.D
Acq: 15 Nov 2018 14:27

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	312188		
127	13.7	9.8	14.6	
129	14.2	9.3	13.9#	

