

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\
 Data File : VF059327.D
 Acq On : 26 Jun 2018 20:00
 Operator : VA/AP
 Sample : J3629-05
 Misc : 6.09g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C3-01

Quant Time: Jun 27 02:22:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

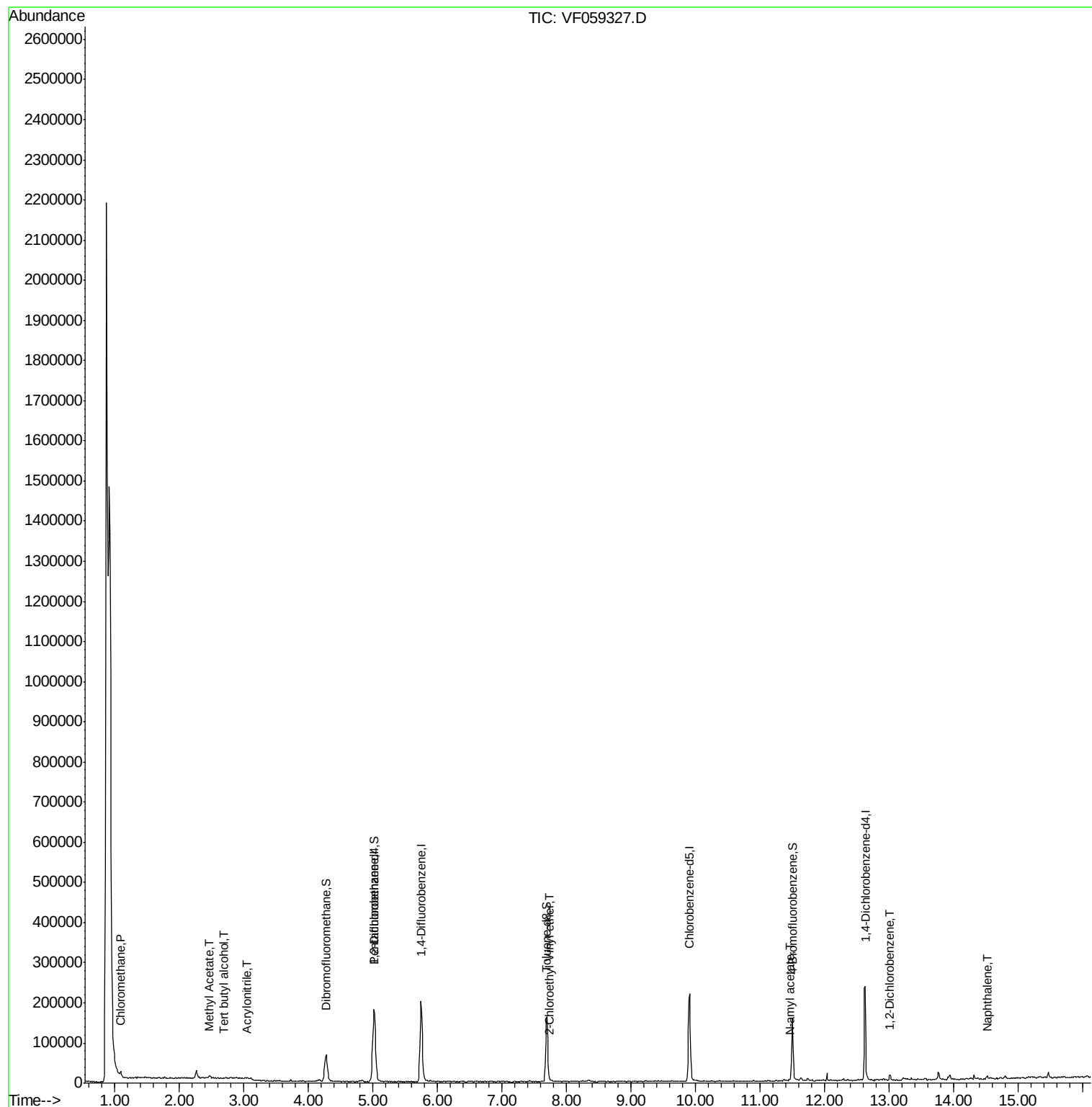
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	141404	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	218660	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	162136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	63994	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	62881	34.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	68.84%	
35) Dibromofluoromethane	4.27	113	59675	37.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.70%	
50) Toluene-d8	7.69	98	139332	35.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	70.44%	
62) 4-Bromofluorobenzene	11.50	95	56625	25.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	50.76%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.09	50	933	1.075	ug/l	96
5) Bromomethane	1.38	94	1021	Below Cal	#	46
11) Tert butyl alcohol	2.69	59	449	3.692	ug/l #	66
13) Acrolein	2.12	56	452	Below Cal		93
15) Acrylonitrile	3.05	53	646	3.016	ug/l #	4
16) Acetone	2.33	43	1414	Below Cal	#	15
18) Methyl Acetate	2.46	43	5599	5.760	ug/l #	61
25) 2-Butanone	4.47	43	482	Below Cal	#	59
28) Bromochloromethane	3.87	49	87	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	337	Below Cal	#	36
37) Ethyl Acetate	4.27	43	145	Below Cal	#	26
49) 1,4-Dioxane	6.97	88	71	Below Cal	#	44
58) 2-Chloroethyl Vinyl ether	7.74	63	229	2.003	ug/l	100
59) 2-Hexanone	9.62	43	1889	Below Cal		90
74) N-amyl acetate	11.45	43	1677	1.240	ug/l #	88
87) 1,3-Dichlorobenzene	12.63	146	1673	Below Cal		99
91) 1,2-Dichlorobenzene	13.01	146	5348	2.848	ug/l	98
95) Naphthalene	14.52	128	3997	1.376	ug/l #	83

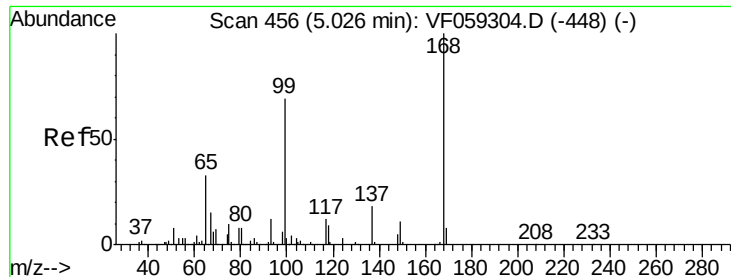
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

Instrument :

MSVOA_F

ClientSampleId :

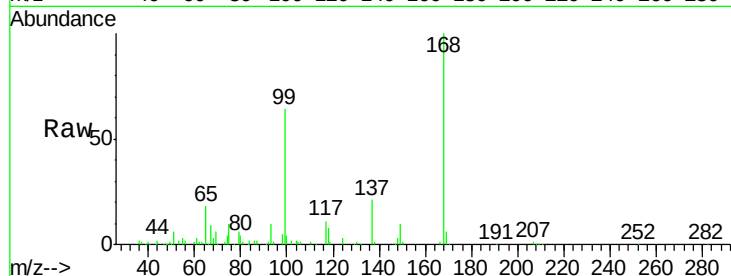
A0C3-01

Tot Ion:168 Resp: 141404

Ion Ratio Lower Upper

168 100

99 63.7 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

40000

30000

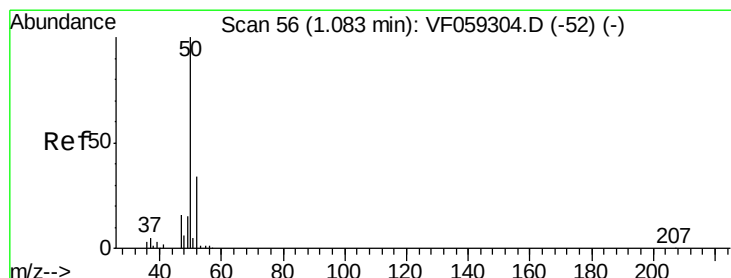
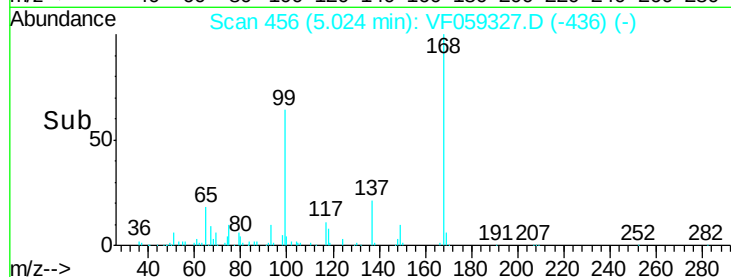
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#3

Chloromethane

Concen: 1.075 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059327.D

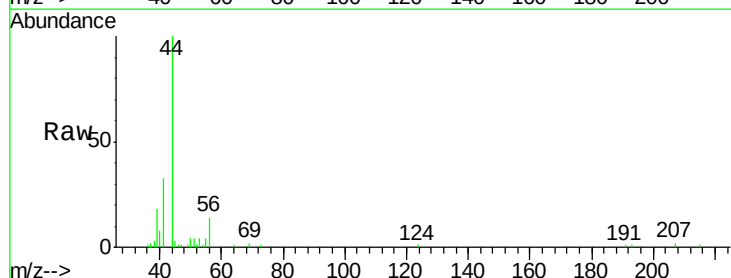
Acq: 26 Jun 2018 20:00

Tgt Ion: 50 Resp: 933

Ion Ratio Lower Upper

50 100

52 35.4 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

600

500

400

300

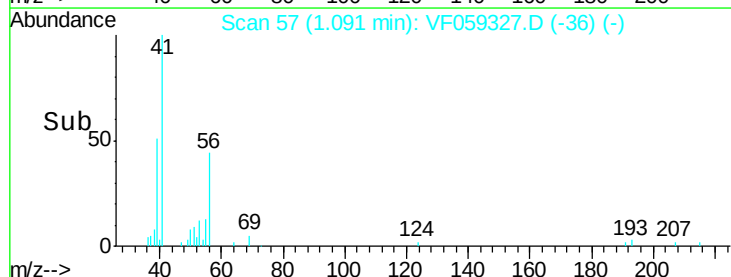
200

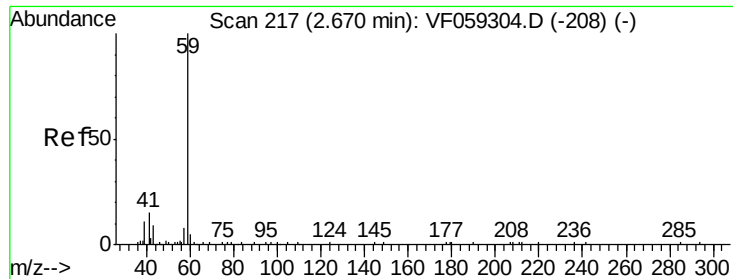
100

0

1.00 1.05 1.10

Time-->

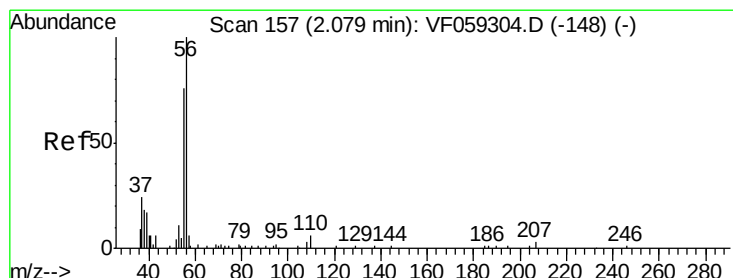
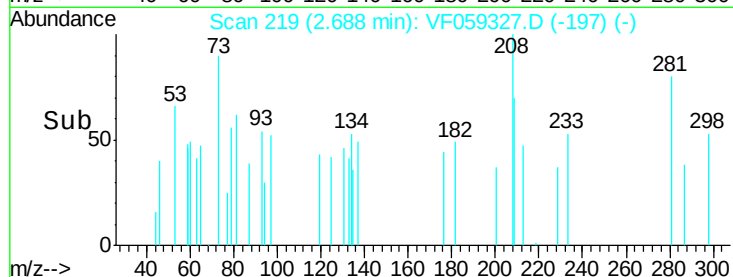
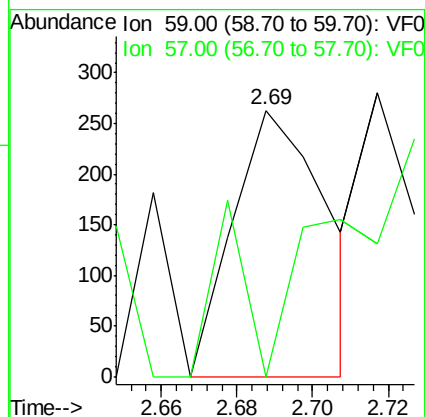
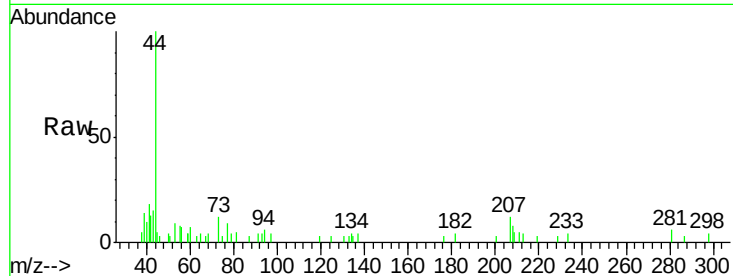




#11
Tert butyl alcohol
Concen: 3.692 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.02 min
Lab File: VF059327.D
Acq: 26 Jun 2018 20:00

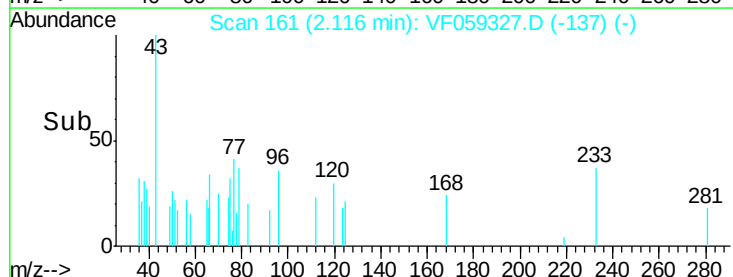
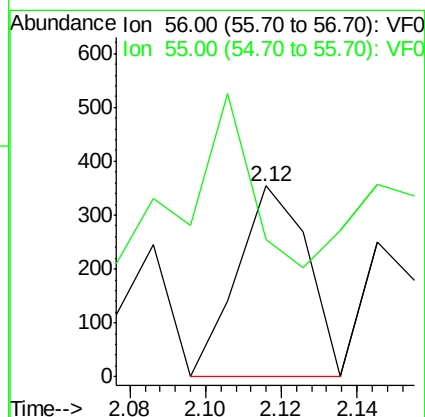
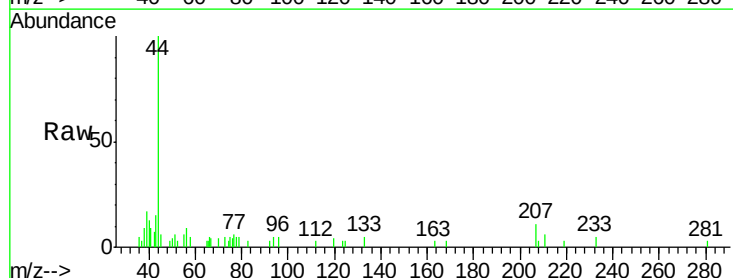
Instrument :
MSVOA_F
ClientSampleId :
A0C3-01

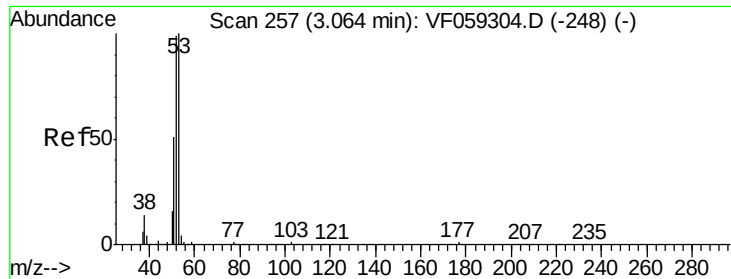
Tot Ion: 59 Resp: 449
Ion Ratio Lower Upper
59 100
57 0.0 11.0 16.4#



#13
Acrolein
Concen: Below Cal
RT: 2.12 min Scan# 161
Delta R.T. 0.04 min
Lab File: VF059327.D
Acq: 26 Jun 2018 20:00

Tgt Ion: 56 Resp: 452
Ion Ratio Lower Upper
56 100
55 72.3 62.4 93.6





#15

Acrylonitrile

Concen: 3.016 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.01 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

Instrument :

MSVOA_F

ClientSampleId :

A0C3-01

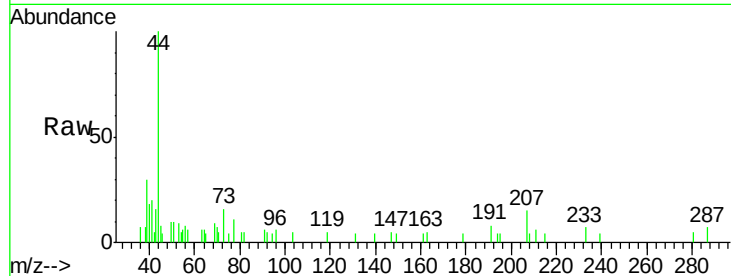
Tot Ion: 53 Resp: 646

Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

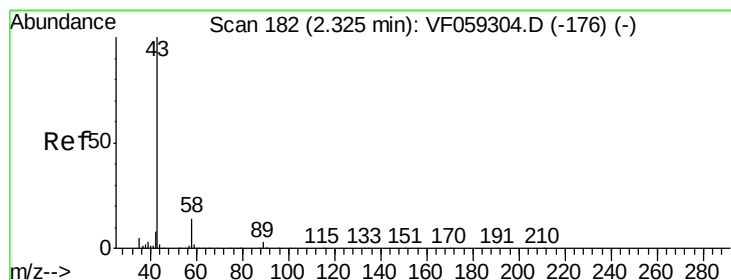
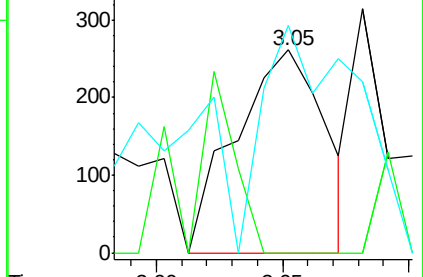
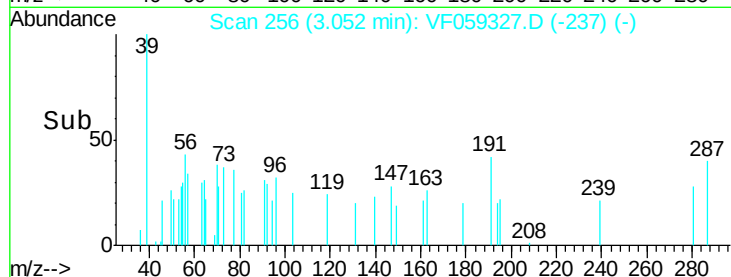
51 112.3 40.9 61.3#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059327.D

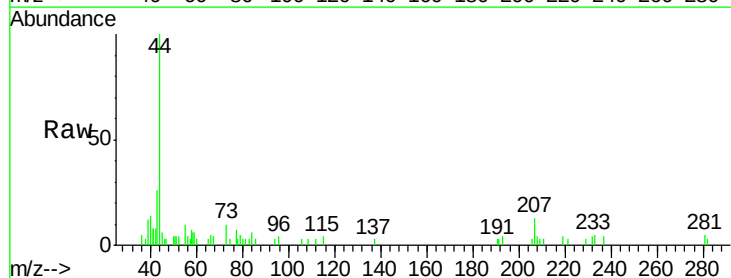
Acq: 26 Jun 2018 20:00

Tgt Ion: 43 Resp: 1414

Ion Ratio Lower Upper

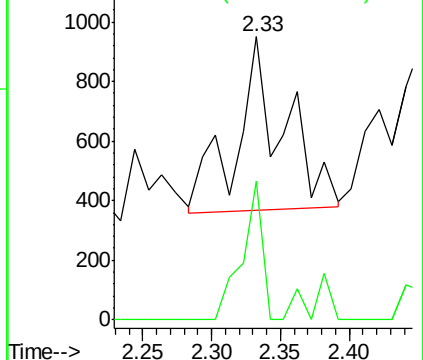
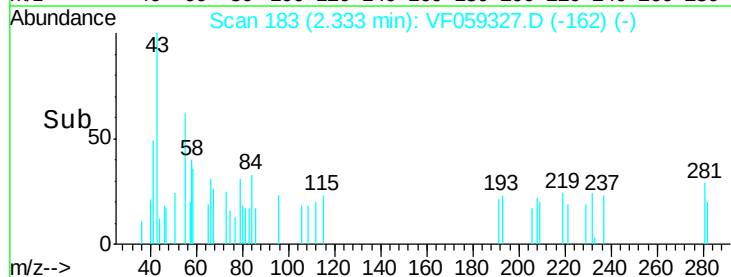
43 100

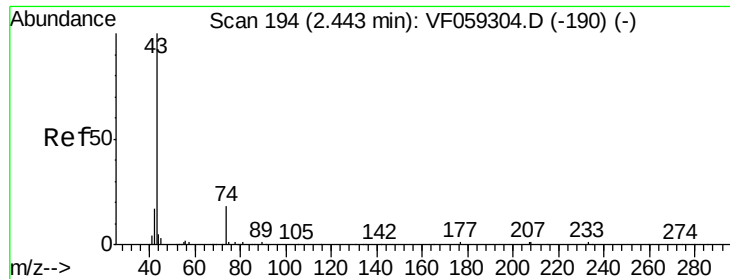
58 49.1 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

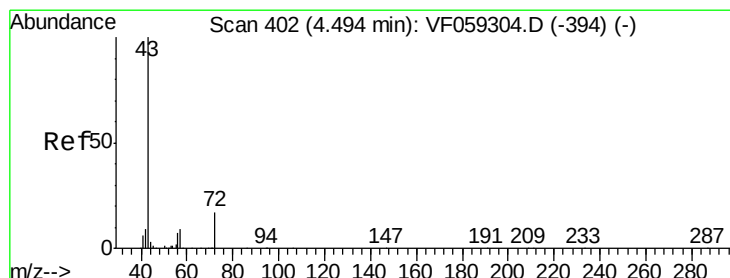
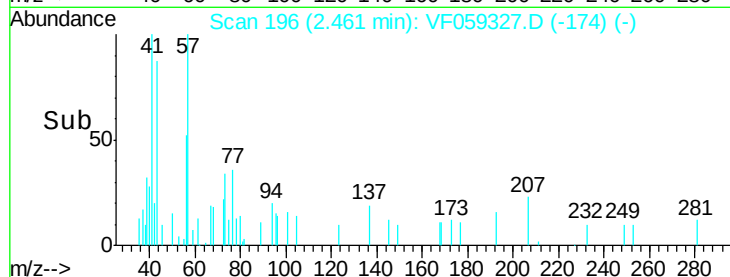
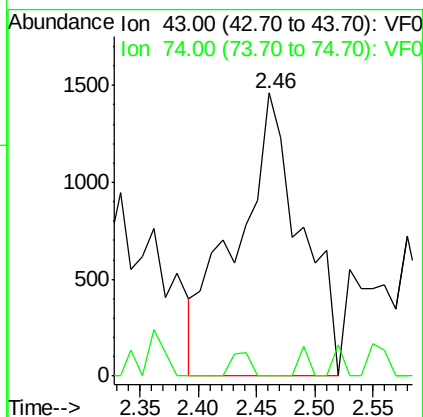
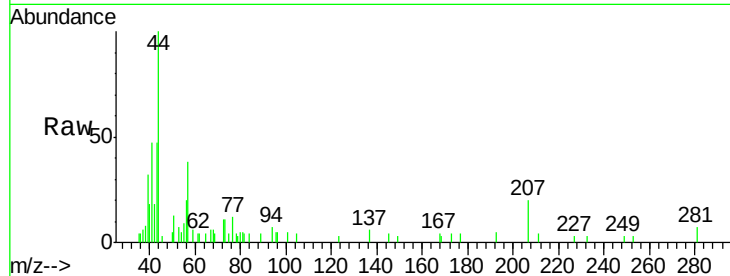




#18
Methyl Acetate
Concen: 5.760 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.02 min
Lab File: VF059327.D
Acq: 26 Jun 2018 20:00

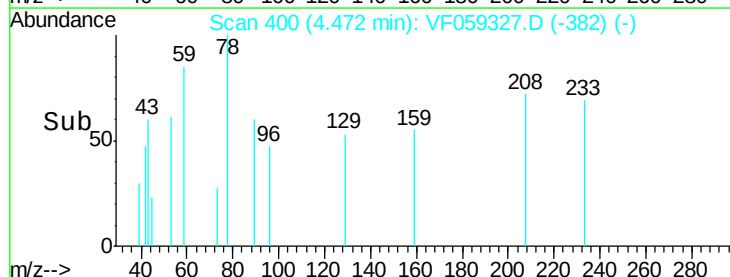
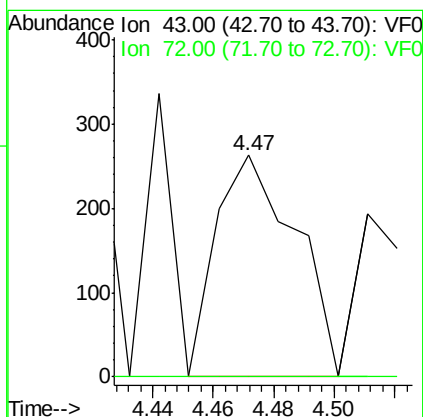
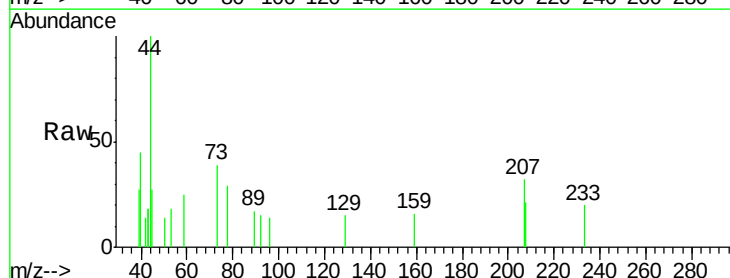
Instrument :
MSVOA_F
ClientSampled :
A0C3-01

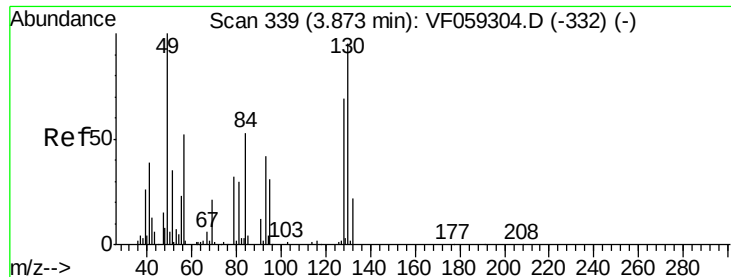
Tot Ion: 43 Resp: 5599
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#25
2-Butanone
Concen: Below Cal
RT: 4.47 min Scan# 400
Delta R.T. -0.02 min
Lab File: VF059327.D
Acq: 26 Jun 2018 20:00

Tgt Ion: 43 Resp: 482
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.87 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

Instrument :

MSVOA_F

ClientSampleId :

A0C3-01

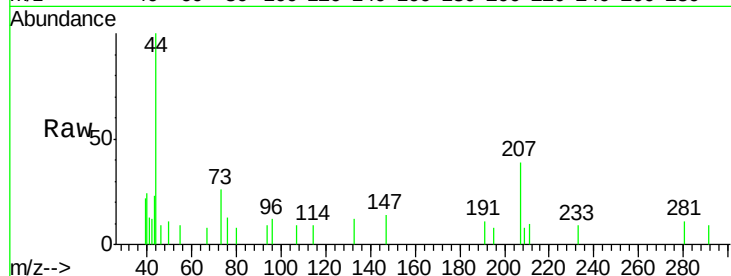
Tot Ion: 49 Resp: 87

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

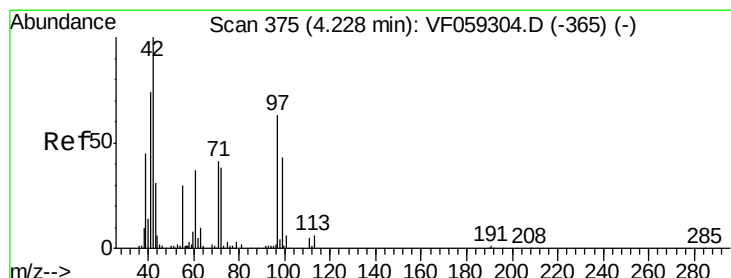
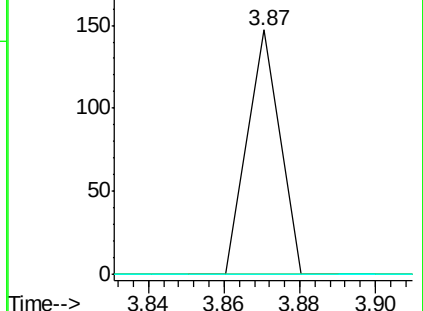
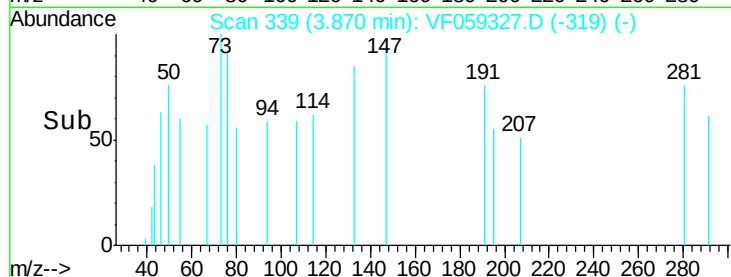
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 378

Delta R.T. 0.03 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

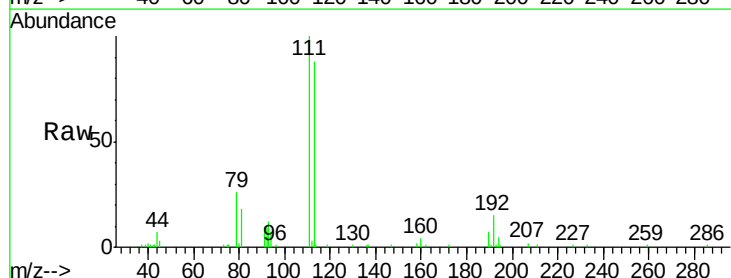
Tgt Ion: 42 Resp: 337

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

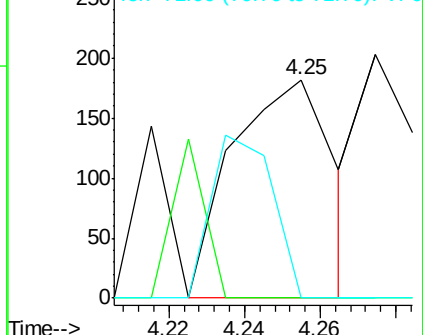
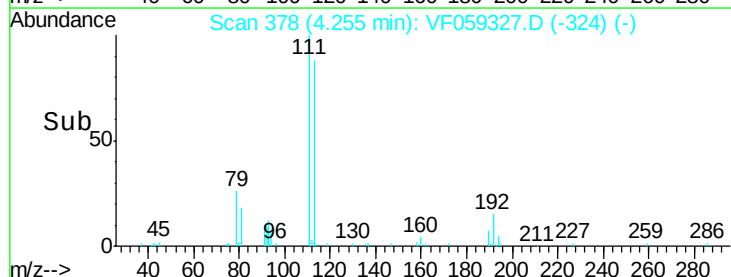
71 0.0 32.5 48.7#

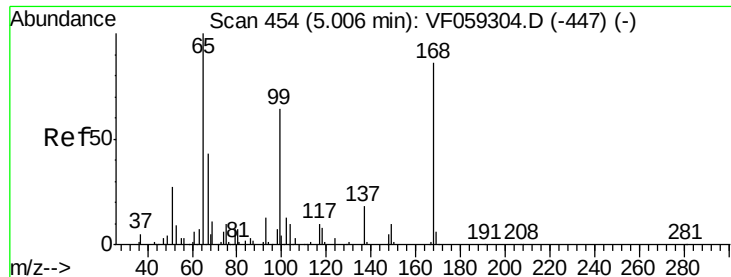


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

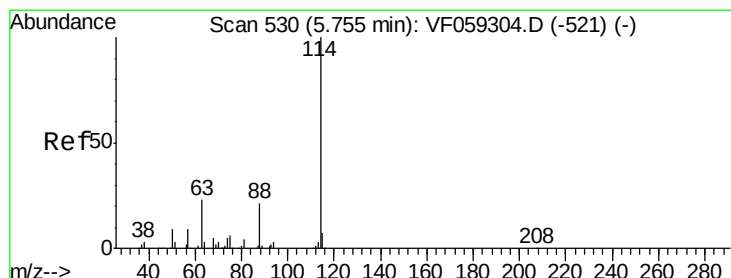
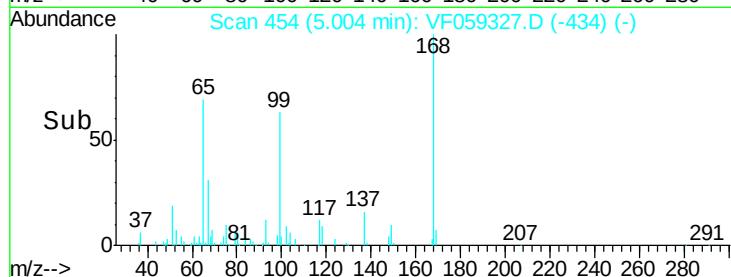
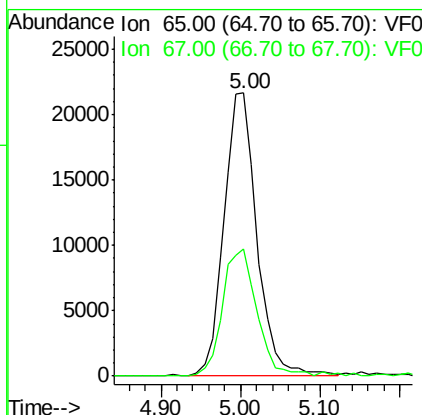
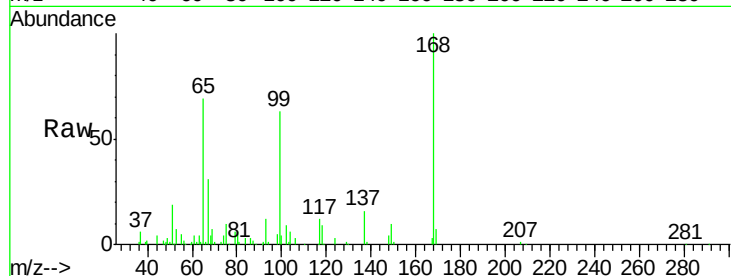




#33
 1,2-Dichloroethane-d4
 Concen: 34.419 ug/l
 RT: 5.00 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VF059327.D
 Acq: 26 Jun 2018 20:00

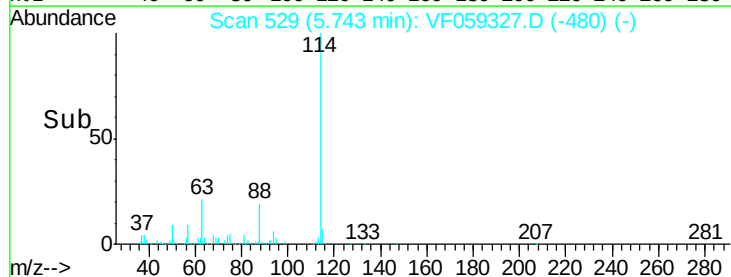
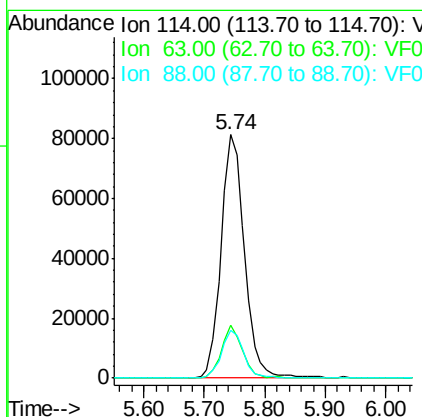
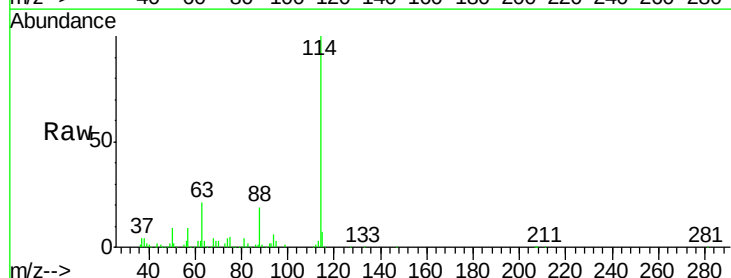
Instrument :
 MSVOA_F
 ClientSampleId :
 A0C3-01

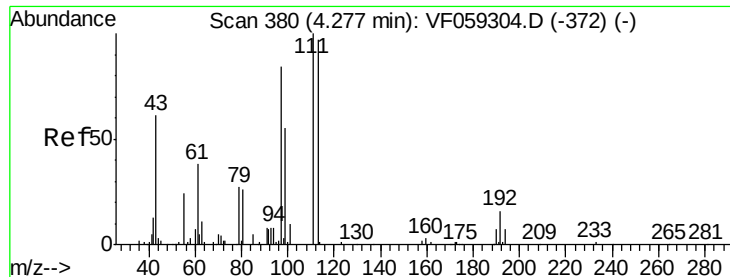
Tot Ion: 65 Resp: 62881
 Ion Ratio Lower Upper
 65 100
 67 45.1 0.0 96.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.74 min Scan# 529
 Delta R.T. -0.01 min
 Lab File: VF059327.D
 Acq: 26 Jun 2018 20:00

Tgt Ion: 114 Resp: 218660
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 45.8
 88 19.5 0.0 41.2

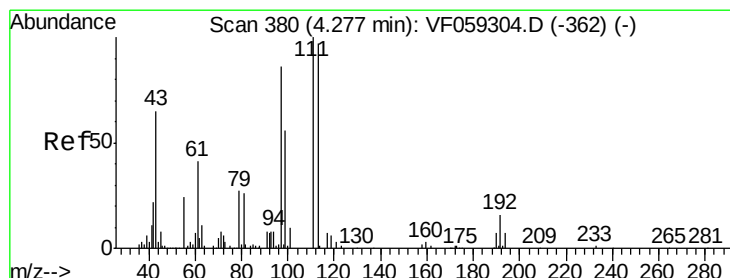
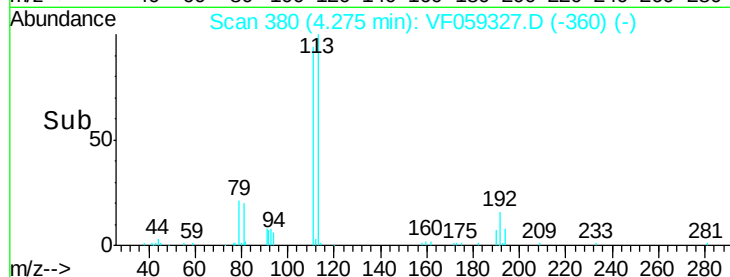
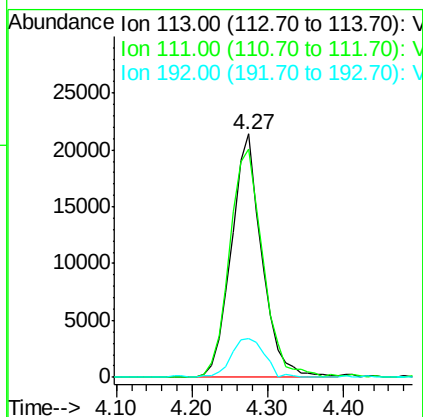
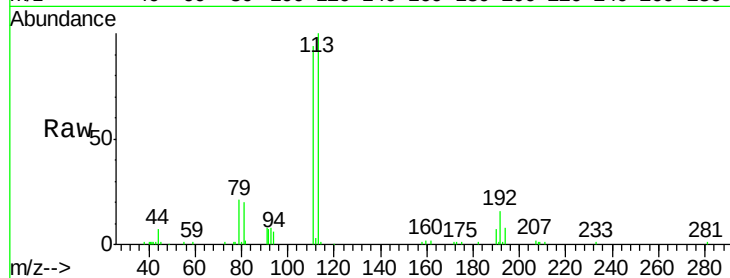




#35
Dibromofluoromethane
Concen: 37.351 ug/l
RT: 4.27 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059327.D
Acq: 26 Jun 2018 20:00

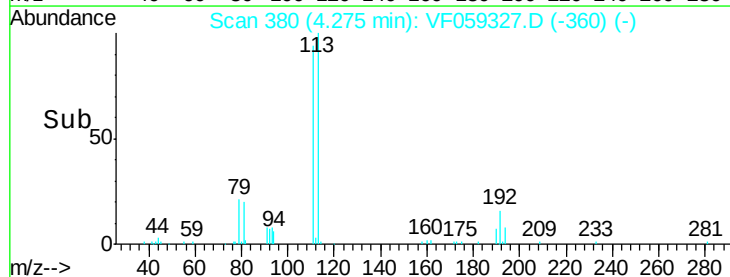
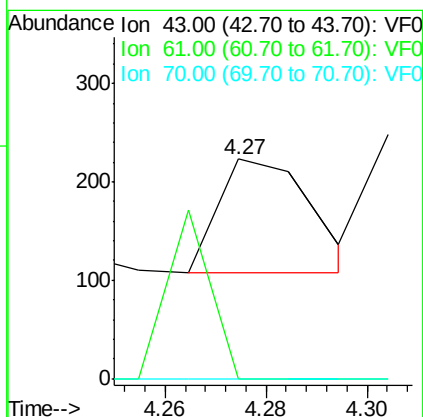
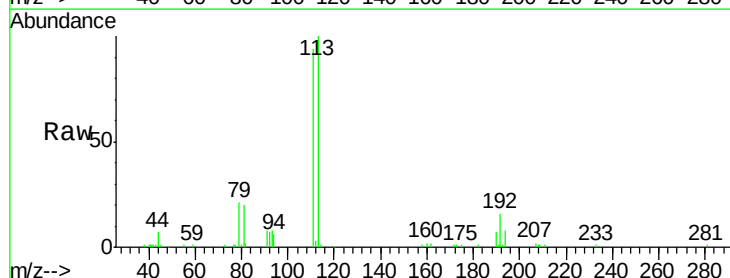
Instrument :
MSVOA_F
ClientSampleId :
A0C3-01

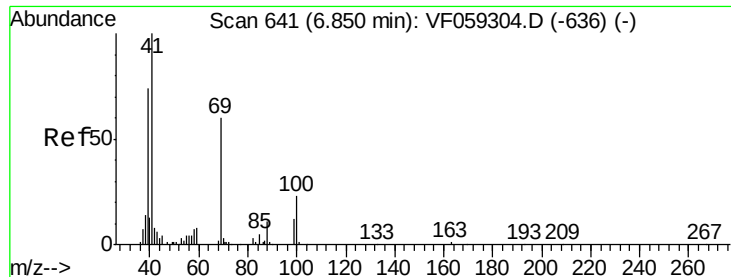
Tot Ion:113 Resp: 59675
Ion Ratio Lower Upper
113 100
111 93.8 82.1 123.1
192 15.7 13.0 19.6



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059327.D
Acq: 26 Jun 2018 20:00

Tgt Ion: 43 Resp: 145
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.97 min Scan# 653

Delta R.T. 0.12 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

Instrument :

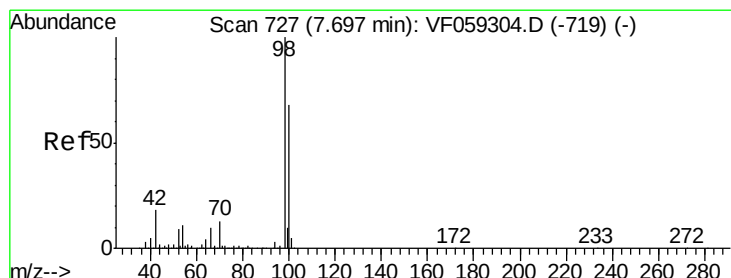
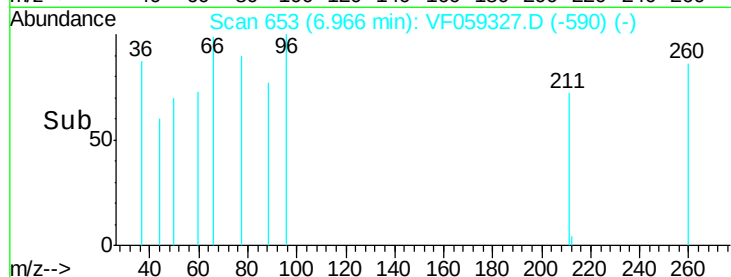
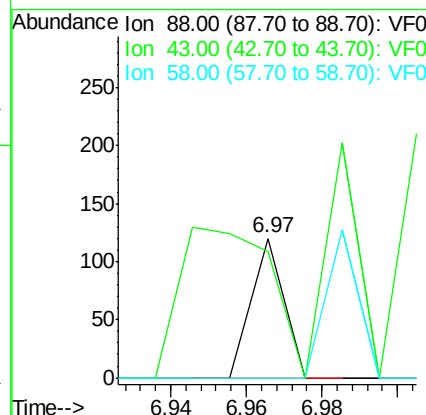
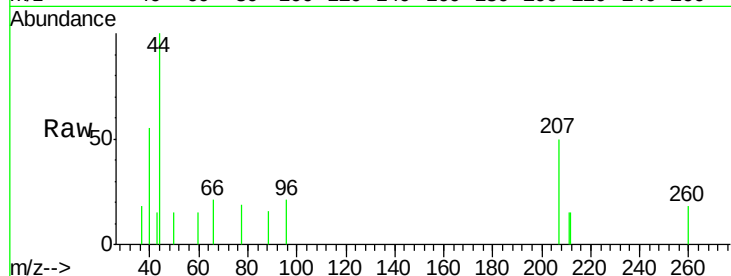
MSVOA_F

ClientSampleId :

A0C3-01

Tot Ion: 88 Resp: 71

Ion	Ratio	Lower	Upper
88	100		
43	90.8	50.6	75.8#
58	0.0	46.6	69.8#



#50

Toluene-d8

Concen: 35.223 ug/l

RT: 7.69 min Scan# 727

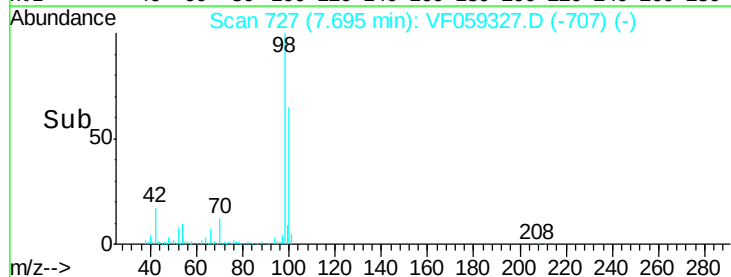
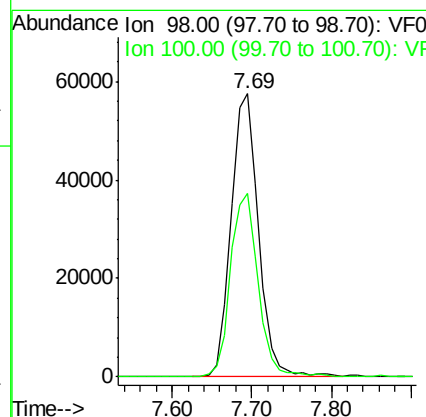
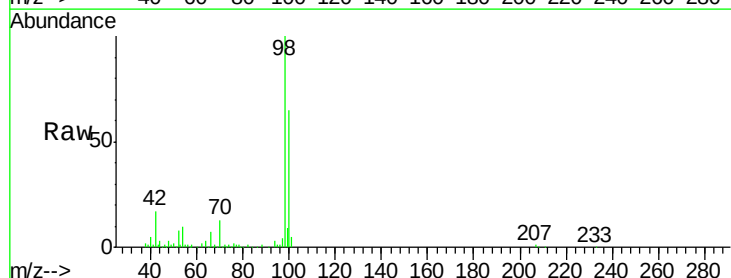
Delta R.T. -0.00 min

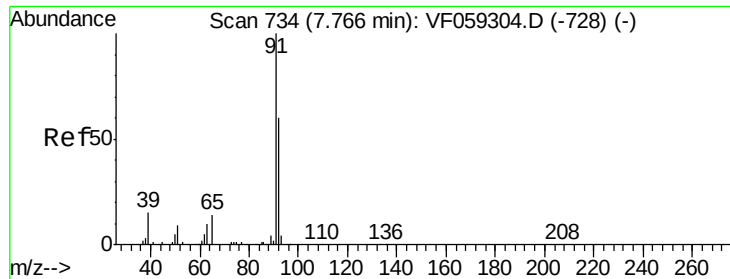
Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

Tgt Ion: 98 Resp: 139332

Ion	Ratio	Lower	Upper
98	100		
100	64.7	54.6	82.0

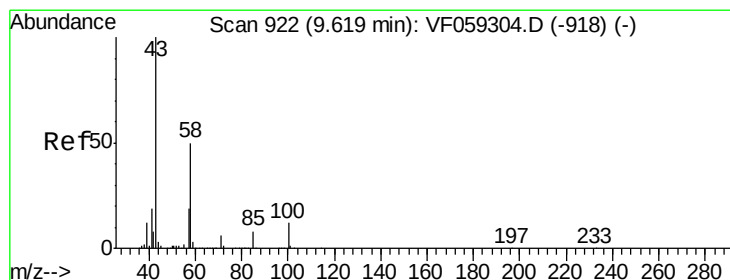
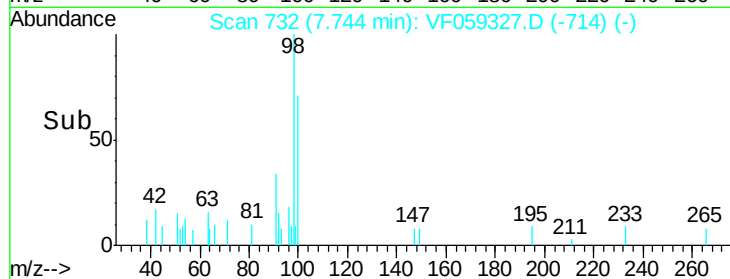
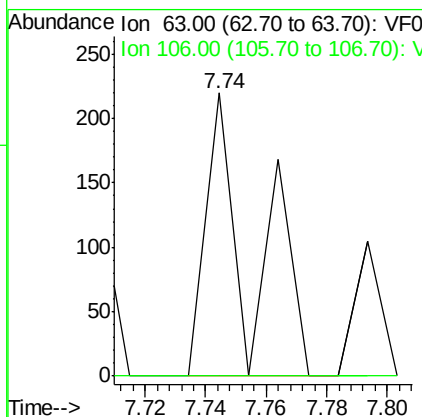
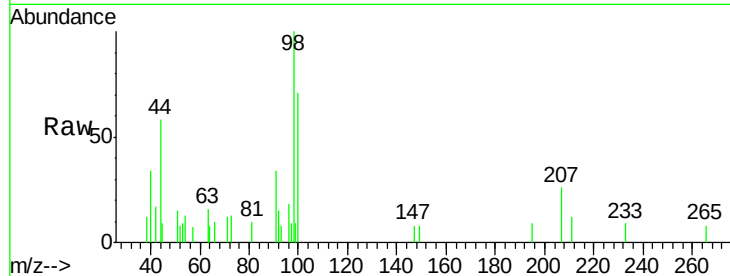




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.003 ug/l
 RT: 7.74 min Scan# 732
 Delta R.T. -0.02 min
 Lab File: VF059327.D
 Acq: 26 Jun 2018 20:00

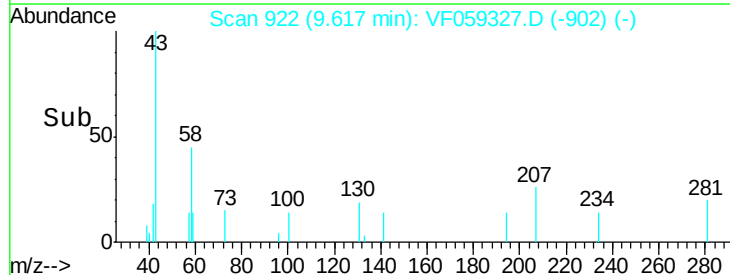
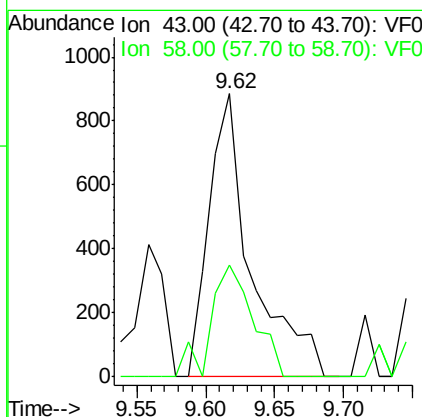
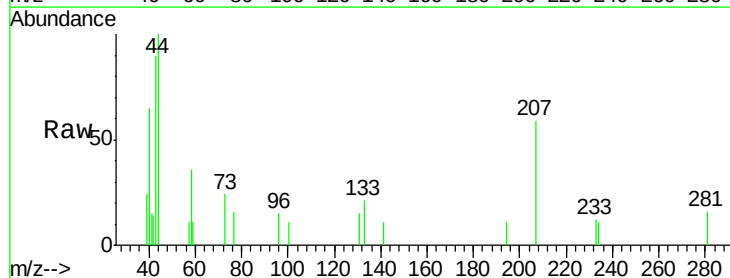
Instrument :
 MSVOA_F
 ClientSampleId :
 A0C3-01

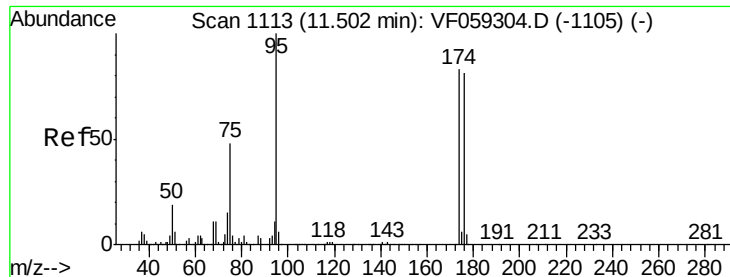
Tot Ion: 63 Resp: 229
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.62 min Scan# 922
 Delta R.T. -0.00 min
 Lab File: VF059327.D
 Acq: 26 Jun 2018 20:00

Tgt Ion: 43 Resp: 1889
 Ion Ratio Lower Upper
 43 100
 58 39.7 23.3 69.9

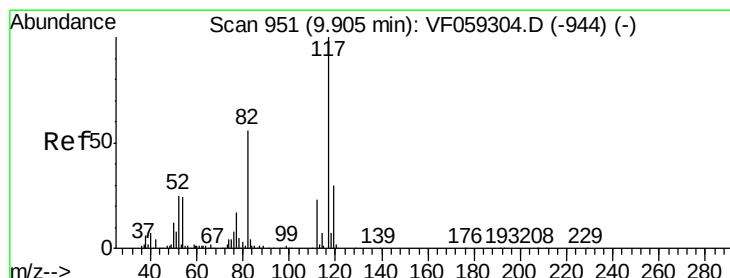
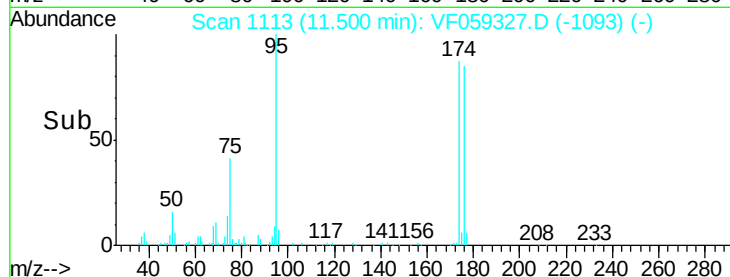
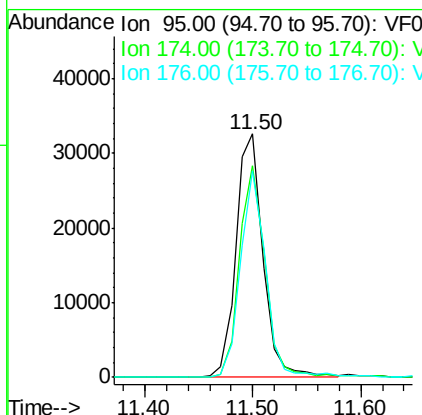
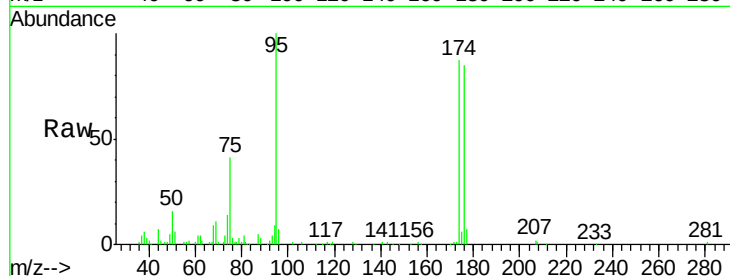




#62
4-Bromofluorobenzene
Concen: 25.377 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059327.D
Acq: 26 Jun 2018 20:00

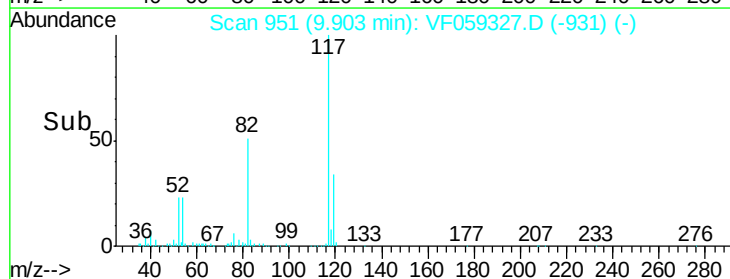
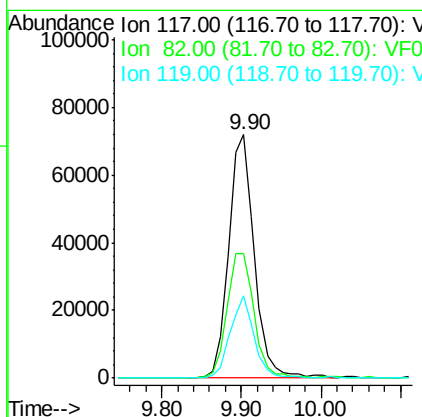
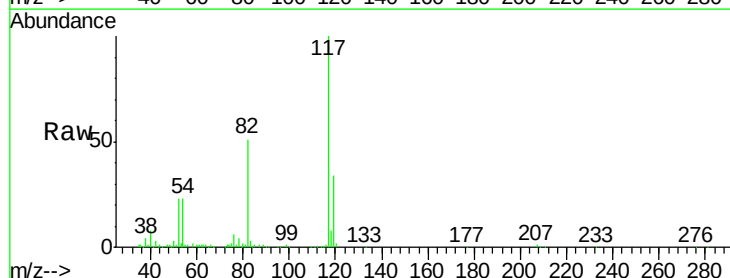
Instrument :
MSVOA_F
ClientSampleId :
A0C3-01

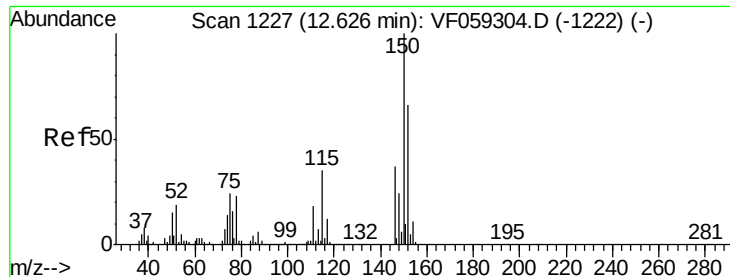
Tot Ion	95	Resp	56625
Ion Ratio	Lower	Upper	
95	100		
174	86.9	0.0	165.2
176	84.8	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059327.D
Acq: 26 Jun 2018 20:00

Tgt Ion	117	Resp	162136
Ion Ratio	Lower	Upper	
117	100		
82	51.2	44.6	66.8
119	33.7	24.1	36.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

Instrument :

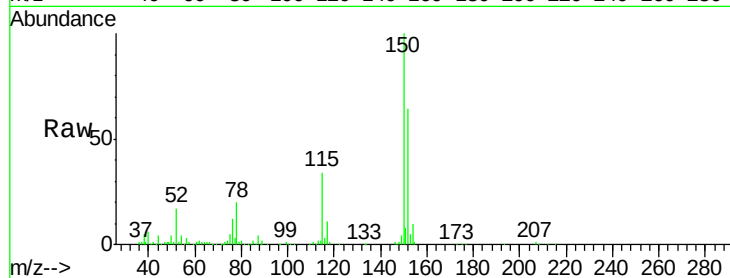
MSVOA_F

ClientSampleId :

A0C3-01

Tot Ion:152 Resp: 63994

Ion	Ratio	Lower	Upper
152	100		
115	54.0	27.1	81.3
150	157.3	0.0	305.2

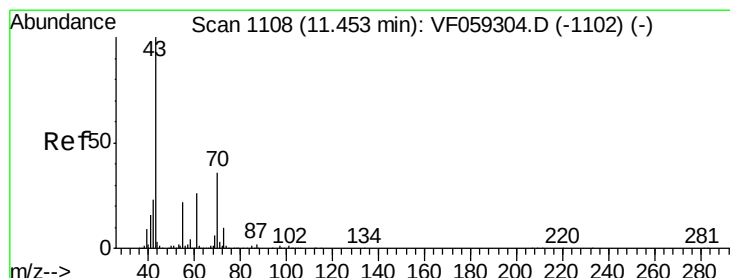
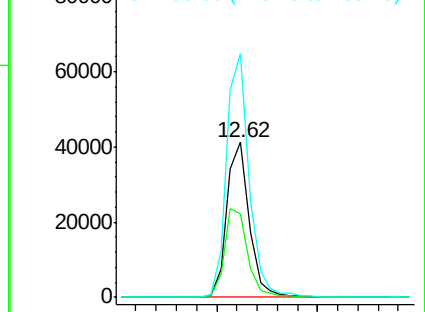
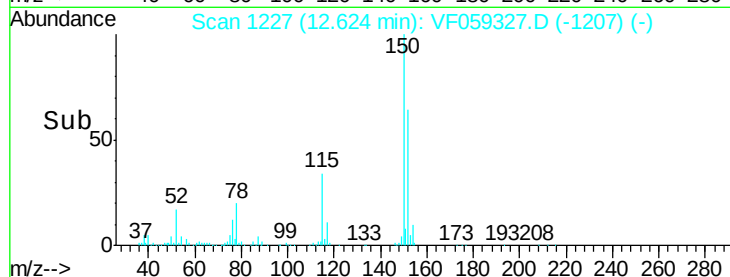


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-amyl acetate

Concen: 1.240 ug/l

RT: 11.45 min Scan# 1108

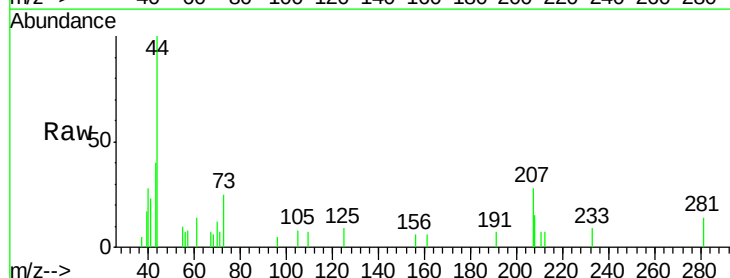
Delta R.T. -0.00 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

Tgt Ion: 43 Resp: 1677

Ion	Ratio	Lower	Upper
43	100		
70	29.2	28.8	43.2
55	25.7	17.4	26.0
61	33.7	21.1	31.7



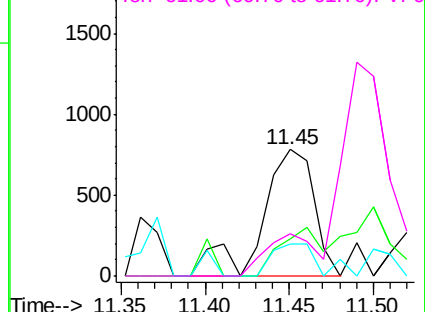
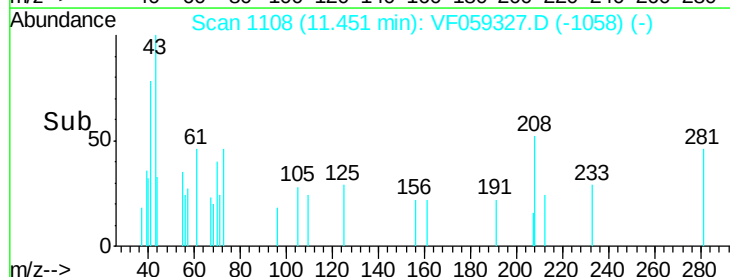
Abundance

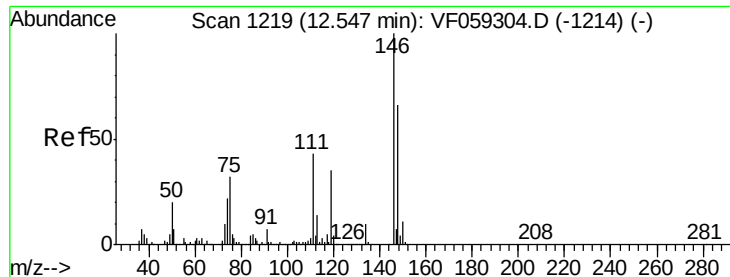
Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.63 min Scan# 1228

Delta R.T. 0.09 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

Instrument :

MSVOA_F

ClientSampleId :

A0C3-01

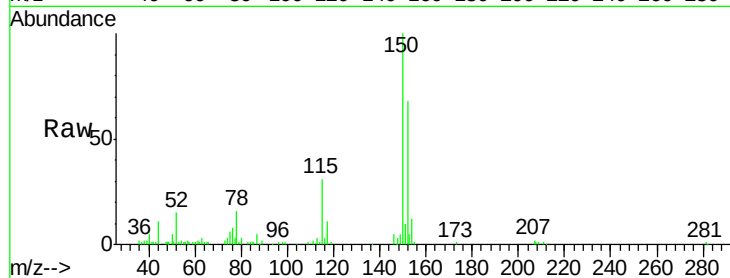
Tot Ion:146 Resp: 1673

Ion Ratio Lower Upper

146 100

111 42.5 21.4 64.2

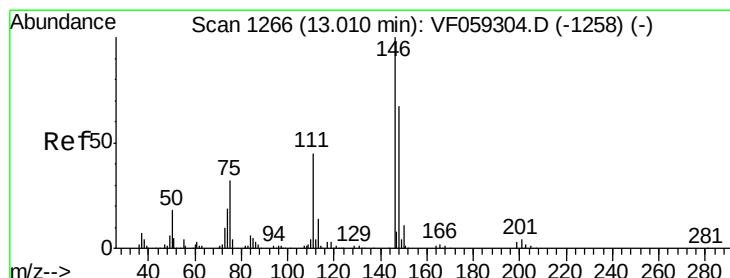
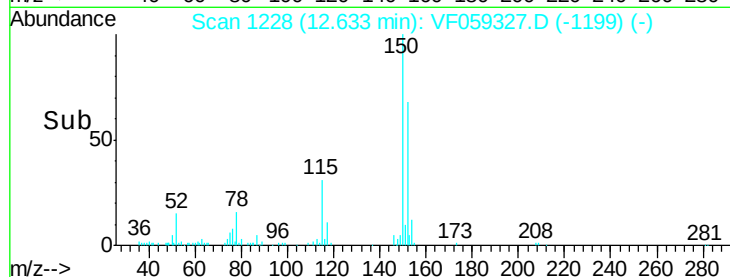
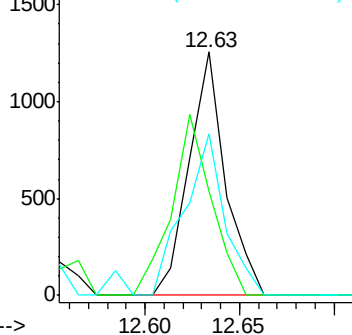
148 66.2 32.8 98.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#91

1,2-Dichlorobenzene

Concen: 2.848 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VF059327.D

Acq: 26 Jun 2018 20:00

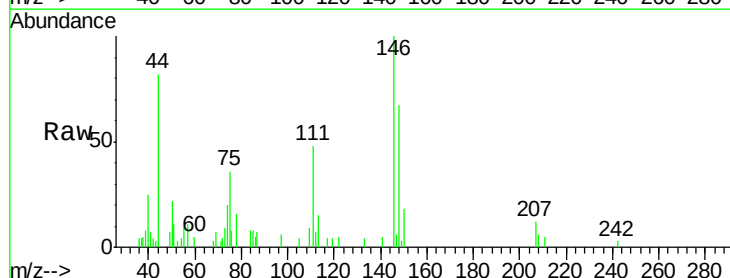
Tgt Ion:146 Resp: 5348

Ion Ratio Lower Upper

146 100

111 47.7 22.7 68.0

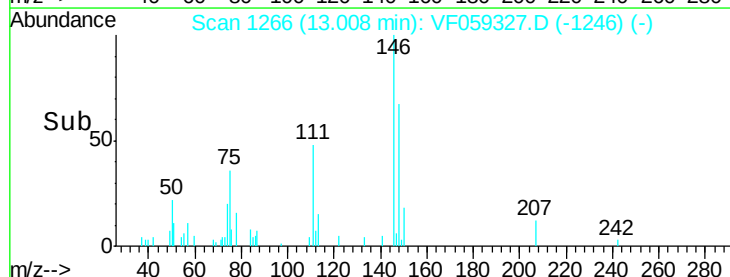
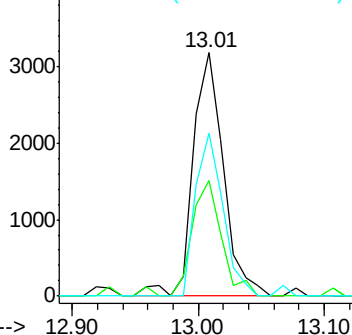
148 66.9 33.5 100.4

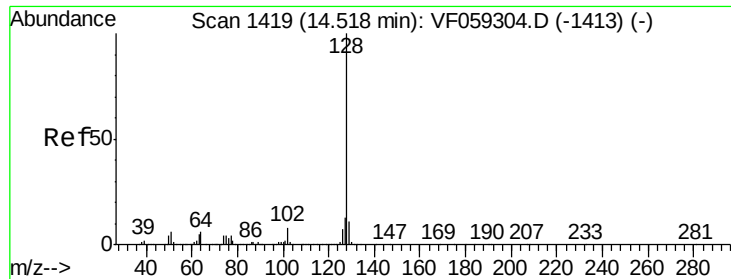


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#95

Naphthalene

Concen: 1.376 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF059327.D

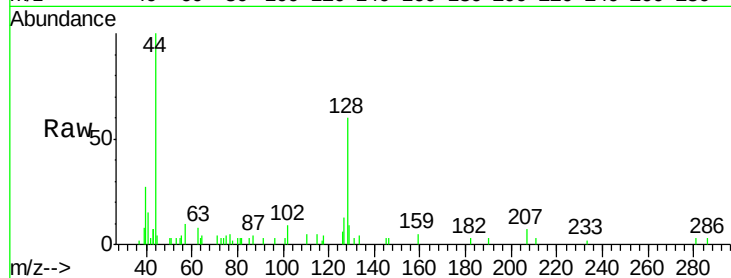
Acq: 26 Jun 2018 20:00

Instrument :

MSVOA_F

ClientSampleId :

A0C3-01



Tot Ion:128 Resp: 3997

Ion Ratio Lower Upper

128 100

127 21.8 10.1 15.1#

129 14.4 8.8 13.2#

