

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031819\
 Data File : VF062005.D
 Acq On : 18 Mar 2019 18:55
 Operator : VA/AP
 Sample : K1958-03
 Misc : 8.99g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 19 01:24:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 18 07:28:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.71	168	61	50.00	ug/l	-0.16
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.60
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.77
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.55

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.62	65	70	159.42	ug/l	-0.22
Spiked Amount			Recovery	=		318.84%
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=		0.00%
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount			Recovery	=		0.00%
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount			Recovery	=		0.00%

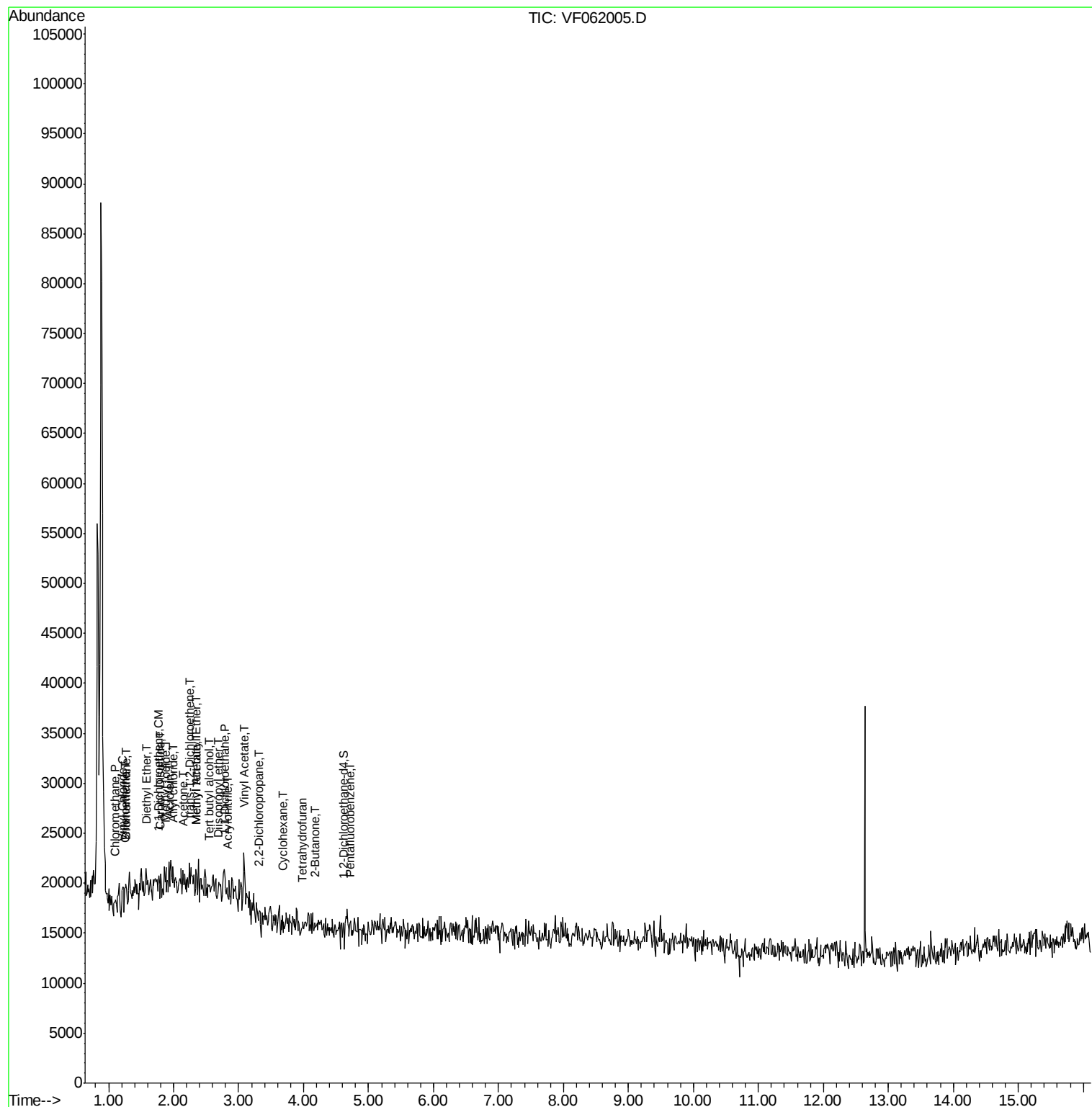
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	84	127.113	ug/l #	46
4) Vinyl Chloride	1.22	62	72	112.654	ug/l #	40
5) Bromomethane	1.28	94	1060	2360.898	ug/l #	3
6) Chloroethane	1.25	64	64	193.975	ug/l #	40
8) Diethyl Ether	1.58	74	118	626.880	ug/l	57
10) Methyl Iodide	1.87	142	62	59.379	ug/l #	36
11) Tert butyl alcohol	2.55	59	69	2568.012	ug/l #	71
12) 1,1-Dichloroethene	1.78	96	62	120.425	ug/l #	1
13) Acrolein	1.94	56	574	19789.074	ug/l	88
14) Allyl chloride	1.98	41	228	346.932	ug/l #	17
15) Acrylonitrile	2.84	53	74	905.670	ug/l #	46
16) Acetone	2.14	43	1637	16602.067	ug/l #	50
17) Carbon Disulfide	1.80	76	79	53.057	ug/l #	1
18) Methyl Acetate	2.34	43	338	1675.548	ug/l #	63
19) Methyl tert-butyl Ether	2.33	73	69	73.963	ug/l #	58
21) trans-1,2-Dichloroethene	2.26	96	175	325.721	ug/l #	1
22) Diisopropyl ether	2.69	45	524	331.485	ug/l #	21
23) Vinyl Acetate	3.07	43	1827	2931.852	ug/l #	77
24) 1,1-Dichloroethane	2.80	63	64	69.629	ug/l #	86
25) 2-Butanone	4.18	43	82	419.914	ug/l #	51
26) 2,2-Dichloropropane	3.33	77	62	143.005	ug/l #	54
29) Tetrahydrofuran	3.97	42	64	753.602	ug/l #	33
31) Cyclohexane	3.69	56	60	66.627	ug/l #	16

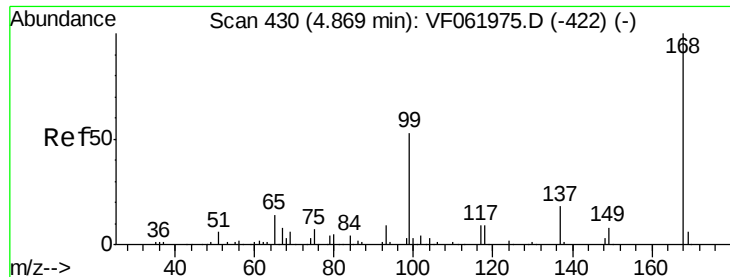
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.71 min Scan# 414

Delta R.T. -0.16 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :

MSVOA_F

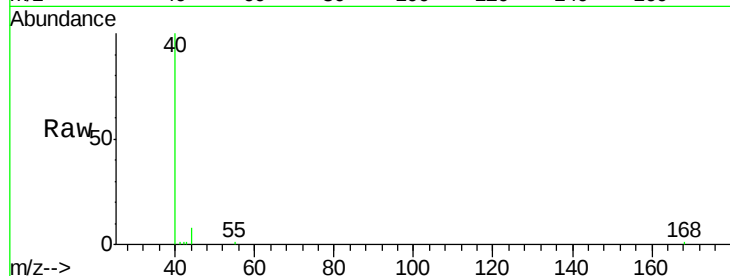
ClientSampled :

Tot Ion:168 Resp: 61

Ion Ratio Lower Upper

168 100

99 0.0 42.4 63.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.71

100

80

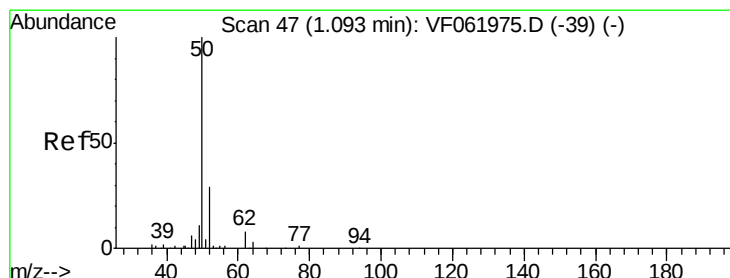
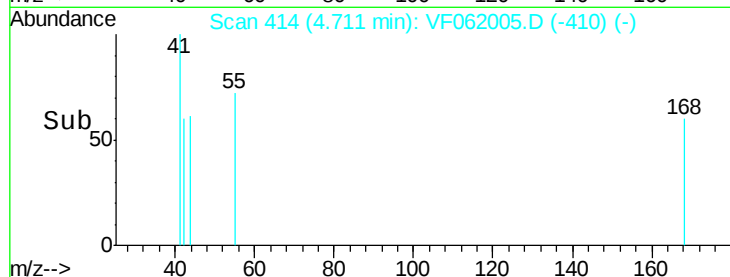
60

40

20

0

Time-->



#3

Chloromethane

Concen: 127.113 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF062005.D

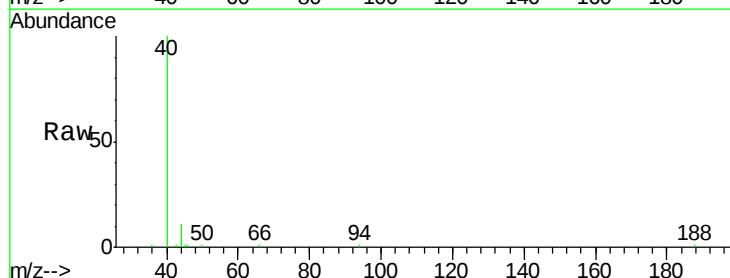
Acq: 18 Mar 2019 18:55

Tgt Ion: 50 Resp: 84

Ion Ratio Lower Upper

50 100

52 0.0 22.6 34.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

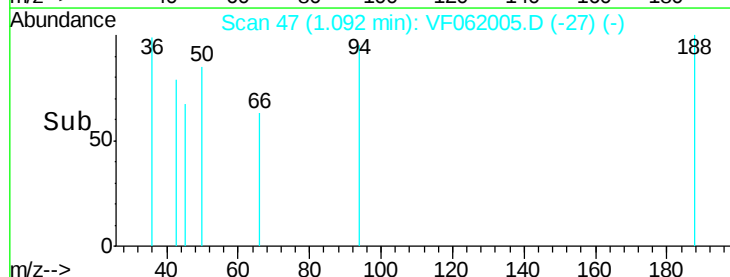
150

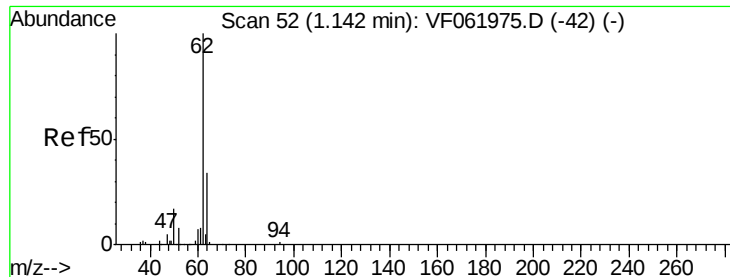
100

50

0

Time-->





#4

Vinyl Chloride

Concen: 112.654 ug/l

RT: 1.22 min Scan# 60

Delta R.T. 0.08 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

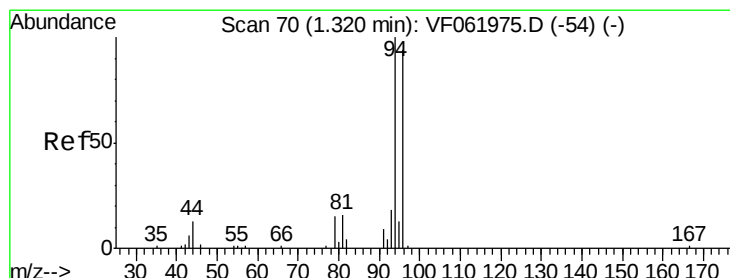
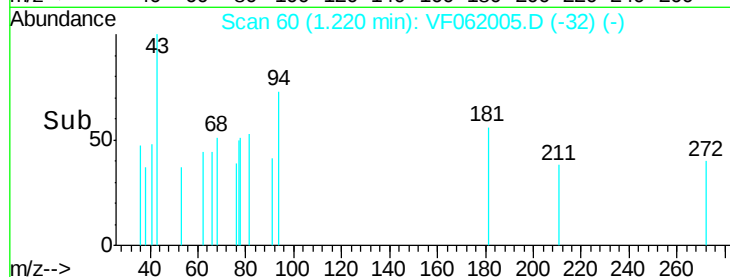
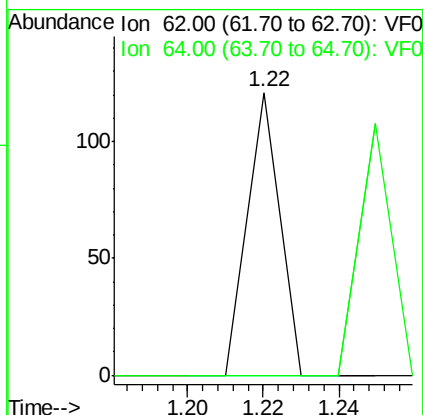
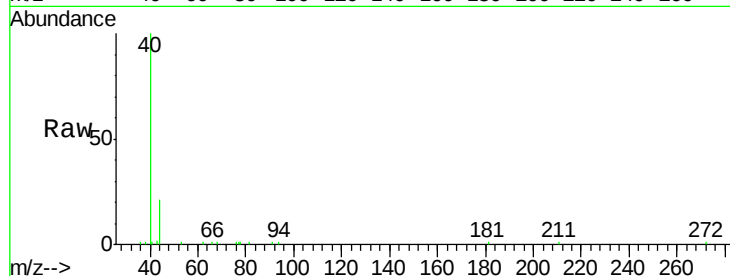
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 62 Resp: 72

Ion Ratio Lower Upper

62 100

64 0.0 27.4 41.2#



#5

Bromomethane

Concen: 2360.898 ug/l

RT: 1.28 min Scan# 66

Delta R.T. -0.04 min

Lab File: VF062005.D

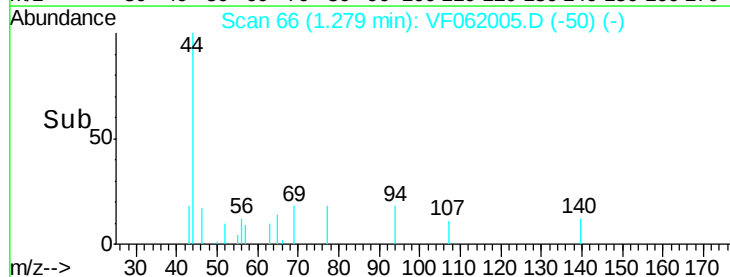
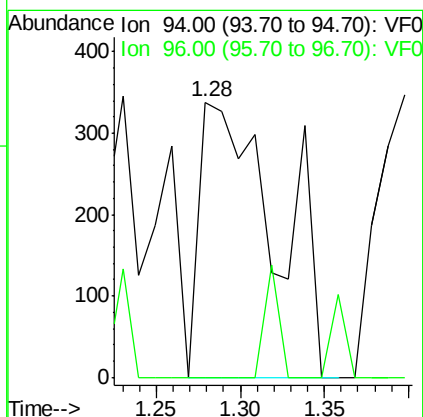
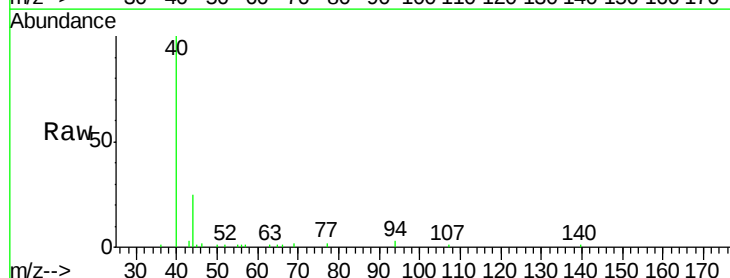
Acq: 18 Mar 2019 18:55

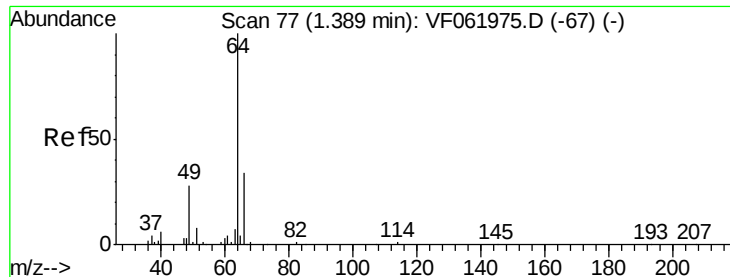
Tgt Ion: 94 Resp: 1060

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.6#





#6

Chloroethane

Concen: 193.975 ug/l

RT: 1.25 min Scan# 63

Delta R.T. -0.14 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :

MSVOA_F

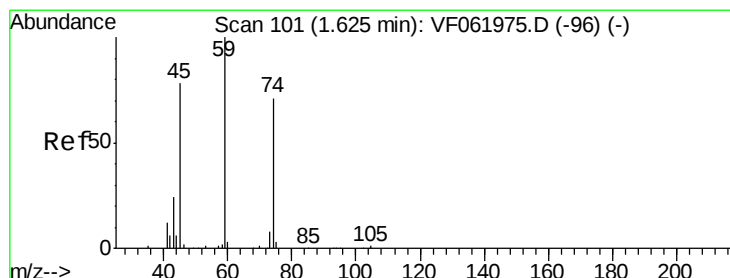
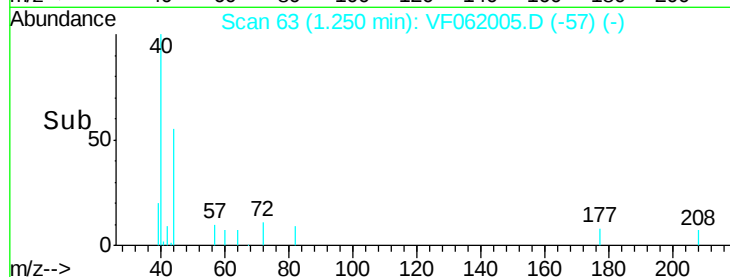
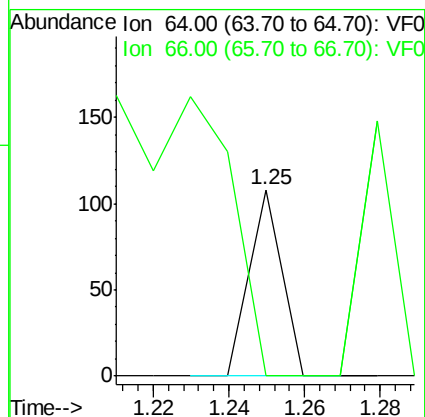
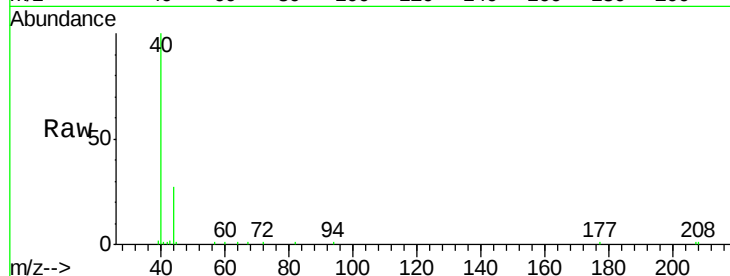
ClientSampleId :

Tot Ion: 64 Resp: 64

Ion Ratio Lower Upper

64 100

66 0.0 27.6 41.4#



#8

Diethyl Ether

Concen: 626.880 ug/l

RT: 1.58 min Scan# 96

Delta R.T. -0.05 min

Lab File: VF062005.D

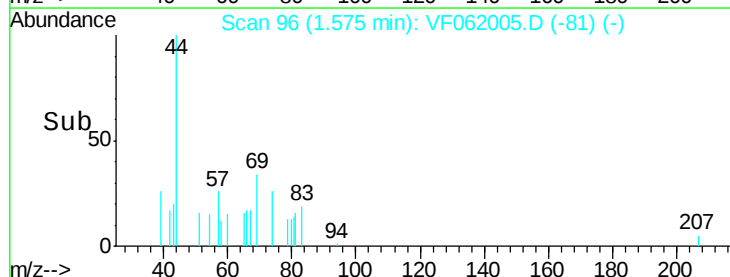
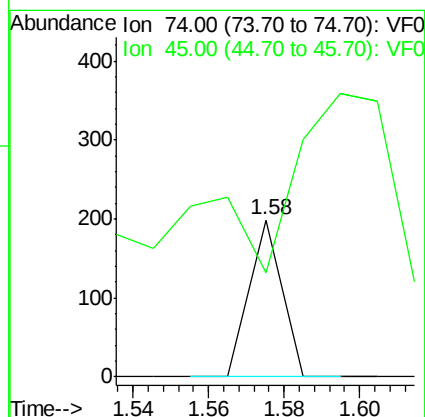
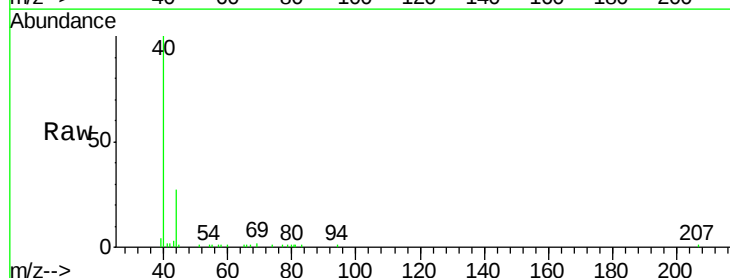
Acq: 18 Mar 2019 18:55

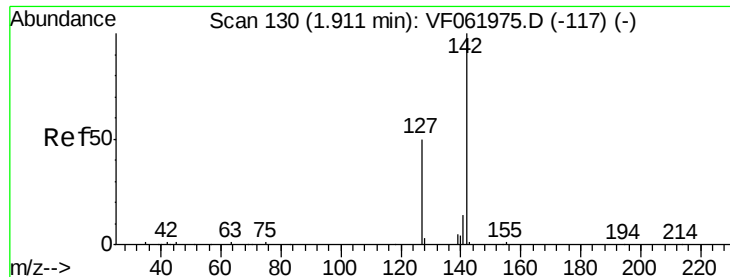
Tgt Ion: 74 Resp: 118

Ion Ratio Lower Upper

74 100

45 66.3 56.3 168.8

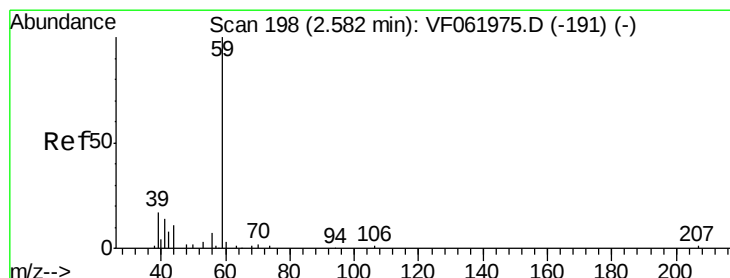
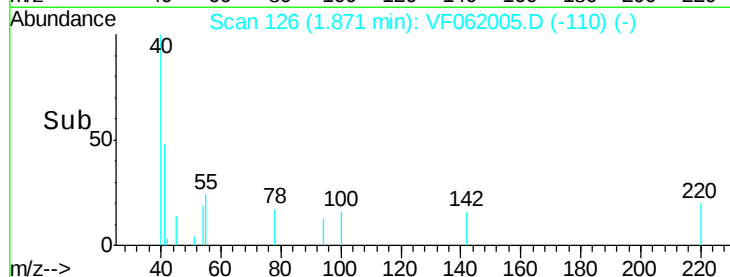
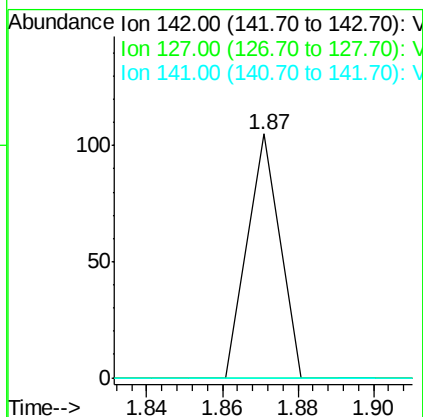
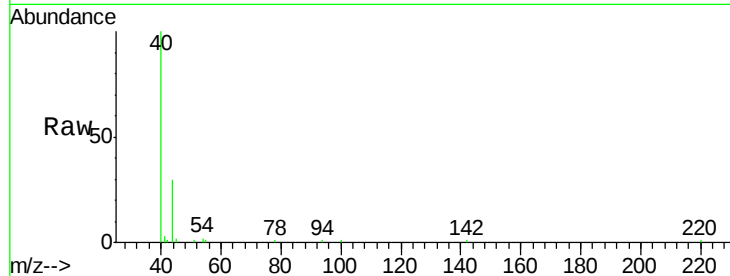




#10
Methvl Iodide
Concen: 59.379 ug/l
RT: 1.87 min Scan# 126
Delta R.T. -0.04 min
Lab File: VF062005.D
Acq: 18 Mar 2019 18:55

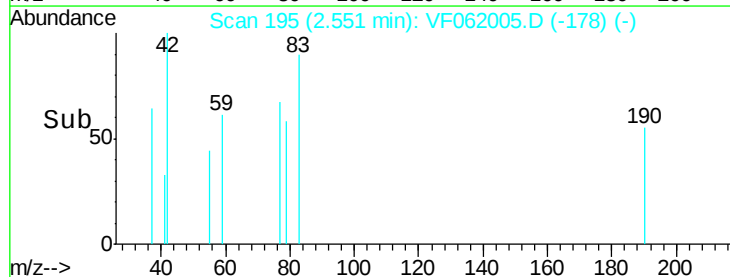
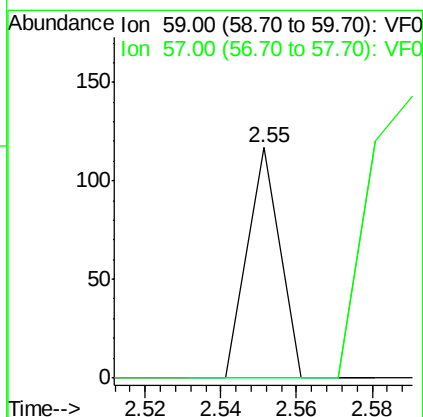
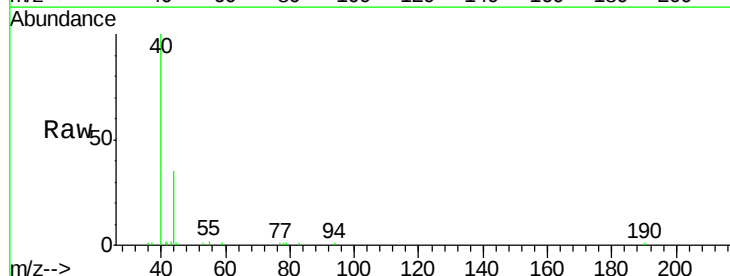
Instrument :
MSVOA_F
ClientSampled :

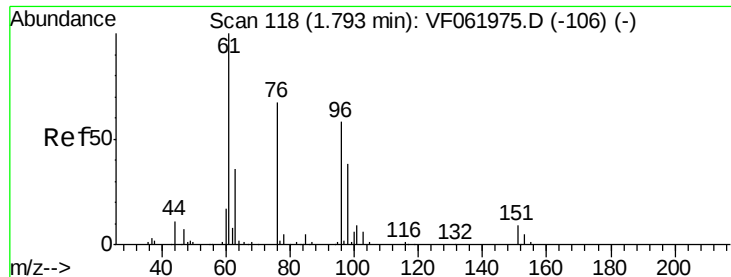
Tot Ion:142 Resp: 62
Ion Ratio Lower Upper
142 100
127 0.0 39.7 59.5#
141 0.0 10.8 16.2#



#11
Tert butyl alcohol
Concen: 2568.012 ug/l
RT: 2.55 min Scan# 195
Delta R.T. -0.03 min
Lab File: VF062005.D
Acq: 18 Mar 2019 18:55

Tgt Ion: 59 Resp: 69
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#12

1,1-Dichloroethene

Concen: 120.425 ug/l

RT: 1.78 min Scan# 117

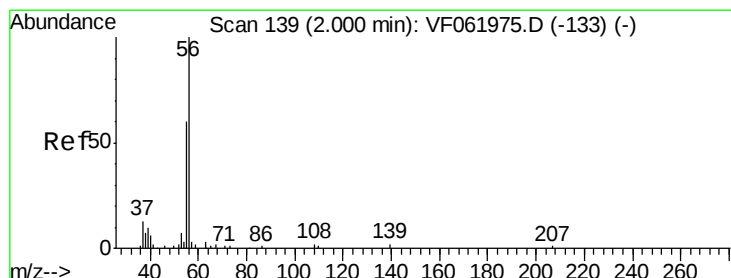
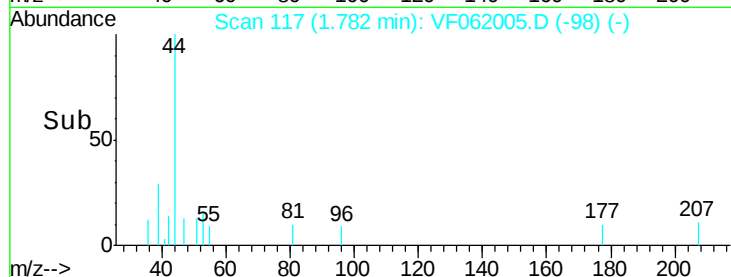
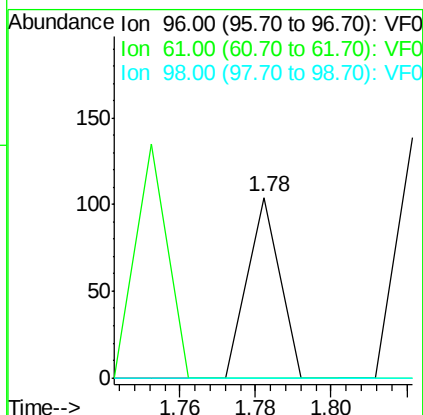
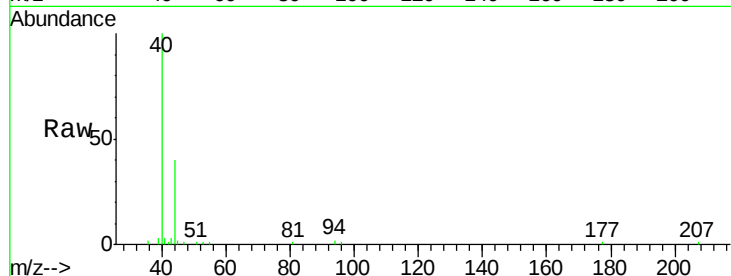
Delta R.T. -0.01 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	138.6	208.0#
98	0.0	53.2	79.8#



#13

Acrolein

Concen: 19789.074 ug/l

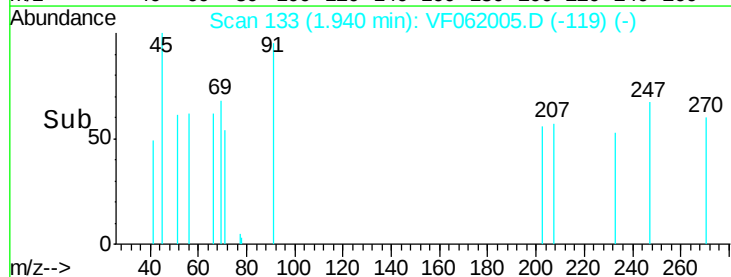
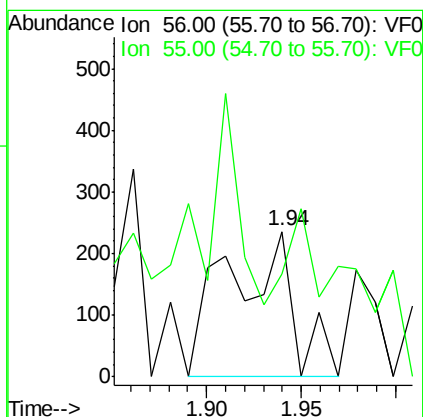
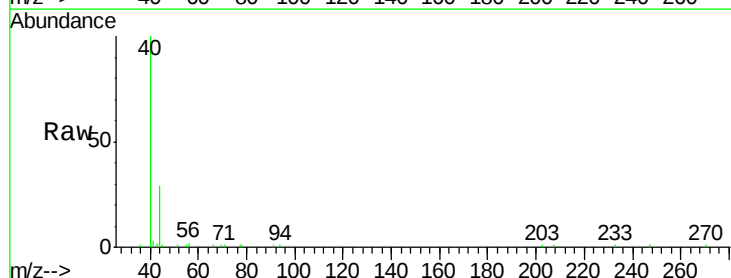
RT: 1.94 min Scan# 133

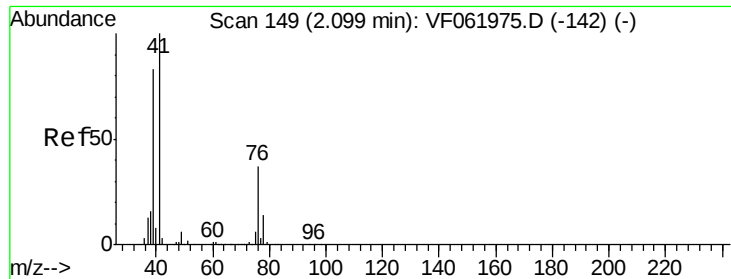
Delta R.T. -0.06 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Tgt Ion	Ratio	Lower	Upper
56	100		
55	70.3	49.1	73.7

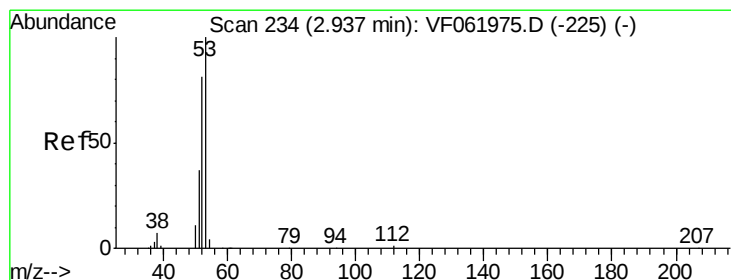
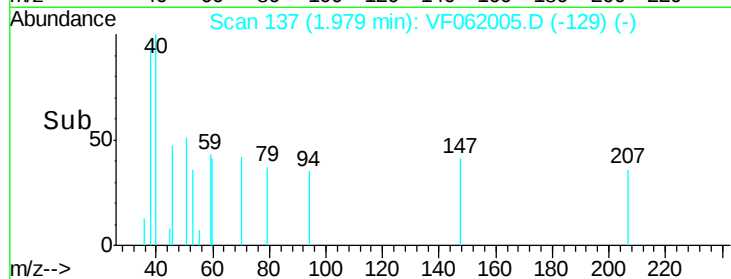
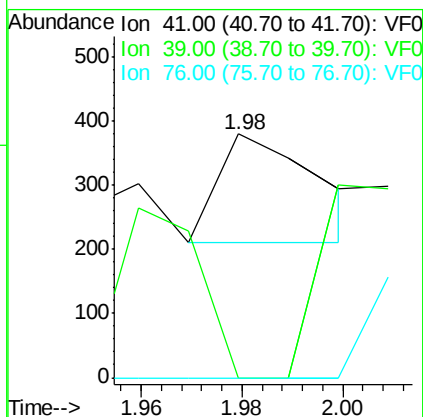
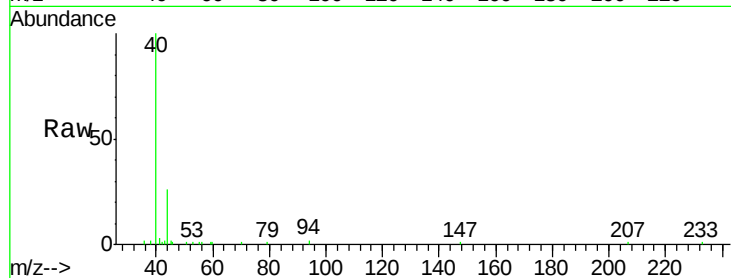




#14
Allvl chloride
Concen: 346.932 ug/l
RT: 1.98 min Scan# 137
Delta R.T. -0.12 min
Lab File: VF062005.D
Acq: 18 Mar 2019 18:55

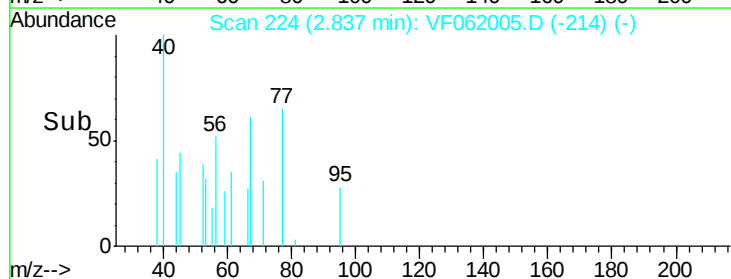
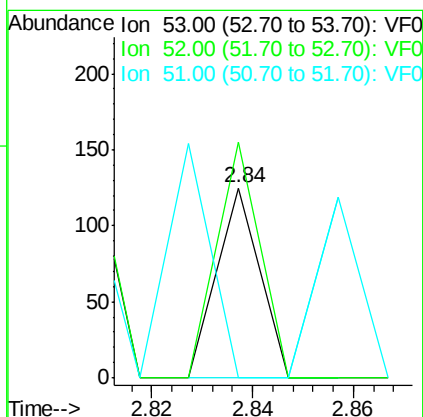
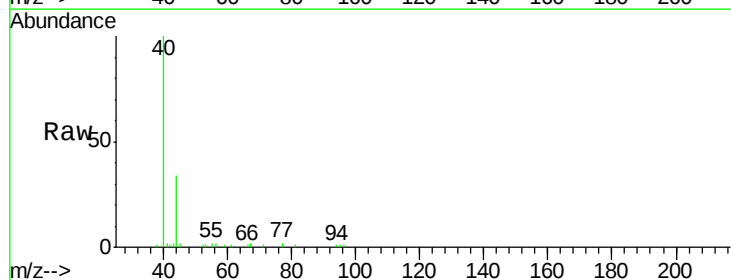
Instrument :
MSVOA_F
ClientSampleId :

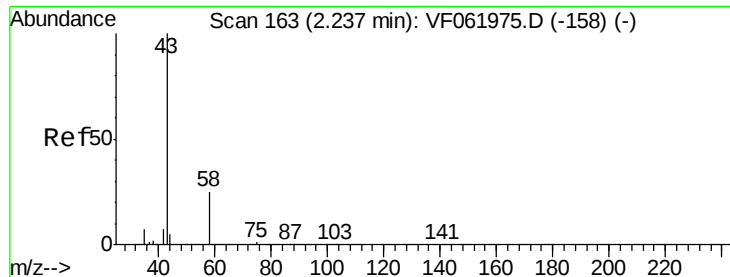
Tot Ion: 41 Resp: 228
Ion Ratio Lower Upper
41 100
39 0.0 66.8 100.2#
76 0.0 31.1 46.7#



#15
Acrylonitrile
Concen: 905.670 ug/l
RT: 2.84 min Scan# 224
Delta R.T. -0.10 min
Lab File: VF062005.D
Acq: 18 Mar 2019 18:55

Tgt Ion: 53 Resp: 74
Ion Ratio Lower Upper
53 100
52 124.0 64.4 96.6#
51 0.0 30.3 45.5#





#16

Acetone

Concen: 16602.067 ug/l

RT: 2.14 min Scan# 153

Delta R.T. -0.10 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :

MSVOA_F

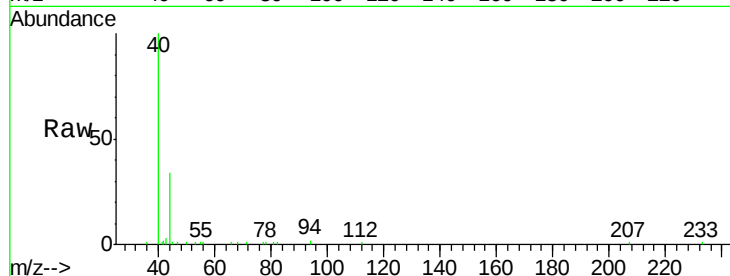
ClientSampleId :

Tot Ion: 43 Resp: 1637

Ion Ratio Lower Upper

43 100

58 0.0 19.9 29.9#

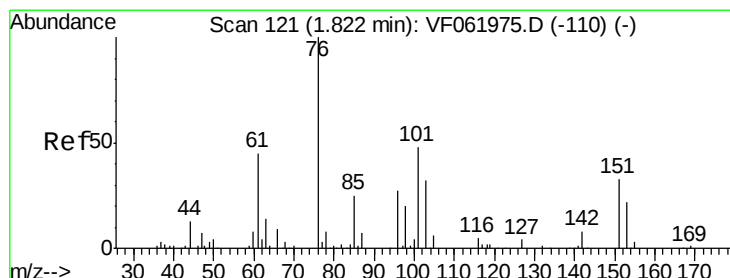
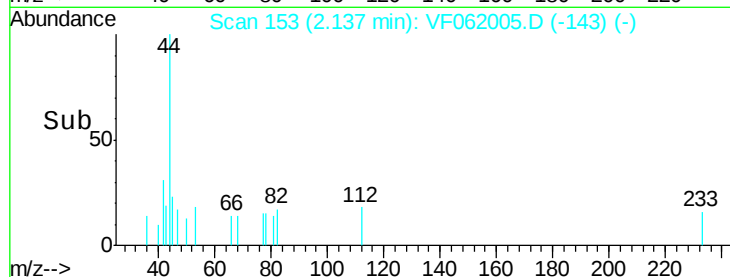


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.14

Time-->



#17

Carbon Disulfide

Concen: 53.057 ug/l

RT: 1.80 min Scan# 119

Delta R.T. -0.02 min

Lab File: VF062005.D

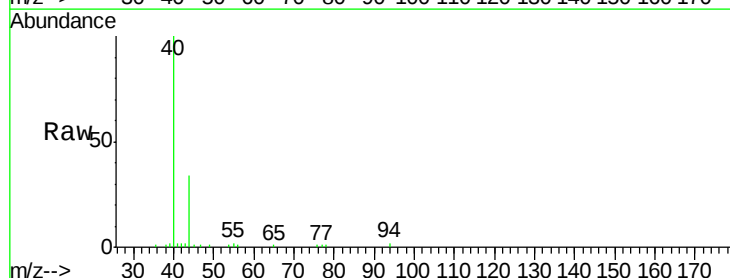
Acq: 18 Mar 2019 18:55

Tgt Ion: 76 Resp: 79

Ion Ratio Lower Upper

76 100

78 79.9 6.8 10.2#

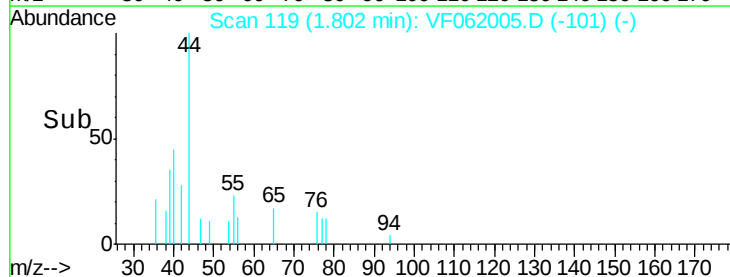


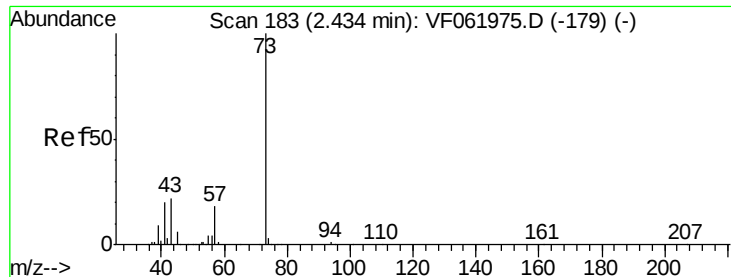
Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

1.80

Time-->

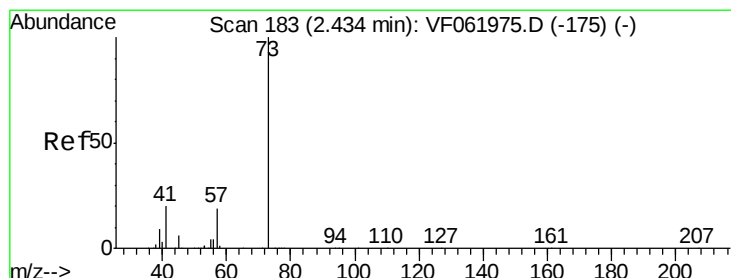
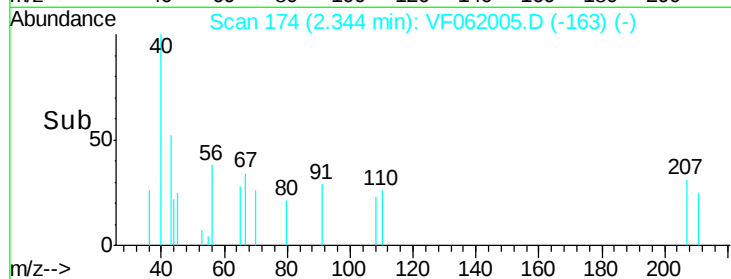
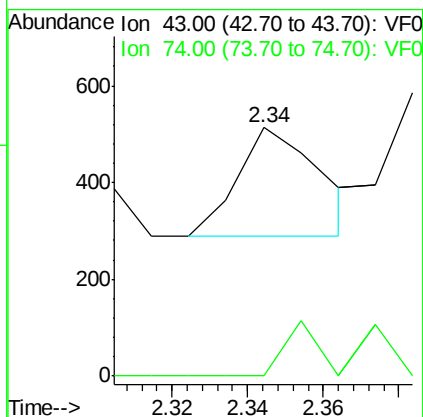
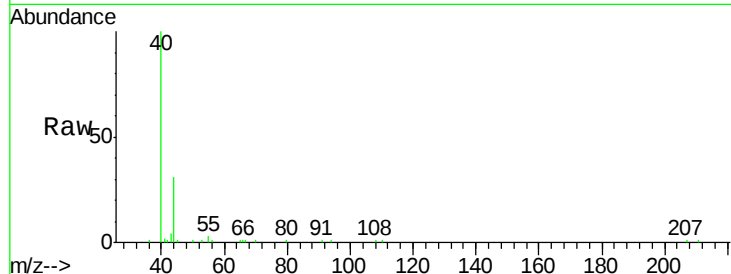




#18
Methyl Acetate
Concen: 1675.548 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.09 min
Lab File: VF062005.D
Acq: 18 Mar 2019 18:55

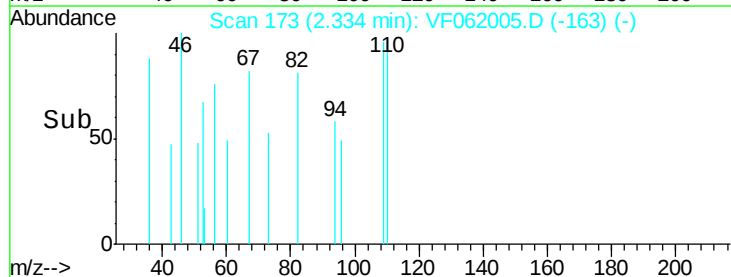
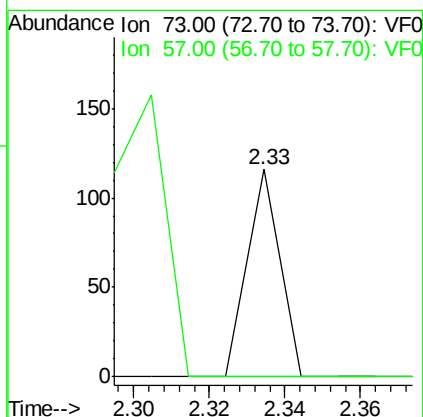
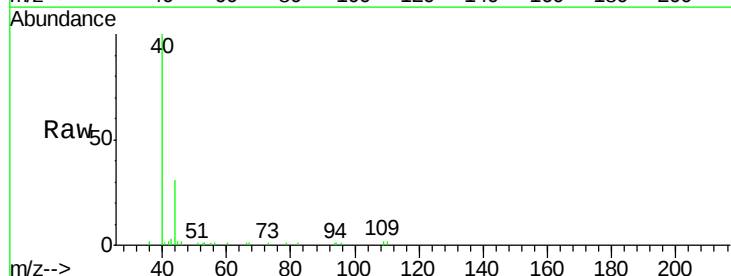
Instrument :
MSVOA_F
ClientSampleId :

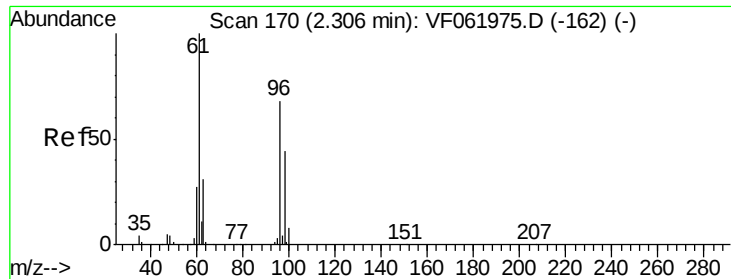
Tot Ion: 43 Resp: 338
Ion Ratio Lower Upper
43 100
74 0.0 12.6 18.8#



#19
Methyl tert-butyl Ether
Concen: 73.963 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.10 min
Lab File: VF062005.D
Acq: 18 Mar 2019 18:55

Tgt Ion: 73 Resp: 69
Ion Ratio Lower Upper
73 100
57 0.0 15.3 22.9#





#21

trans-1,2-Dichloroethene

Concen: 325.721 ug/l

RT: 2.26 min Scan# 165

Delta R.T. -0.05 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :
MSVOA_F
ClientSampleId :

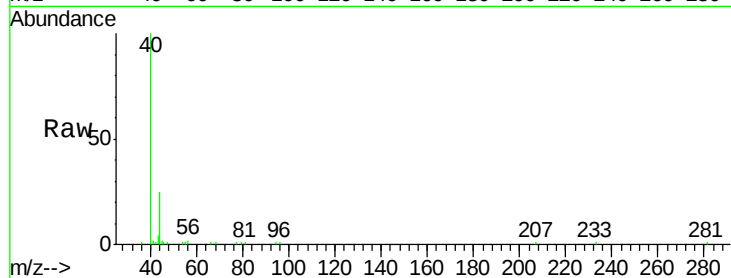
Tot Ion: 96 Resp: 175

Ion Ratio Lower Upper

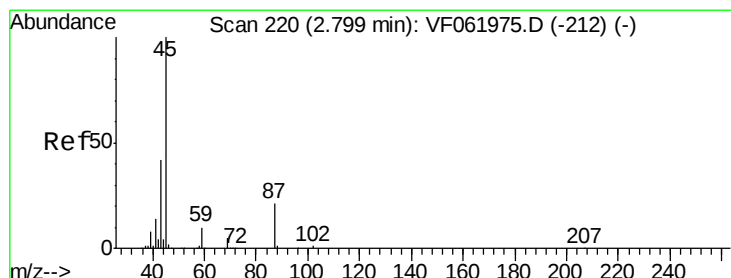
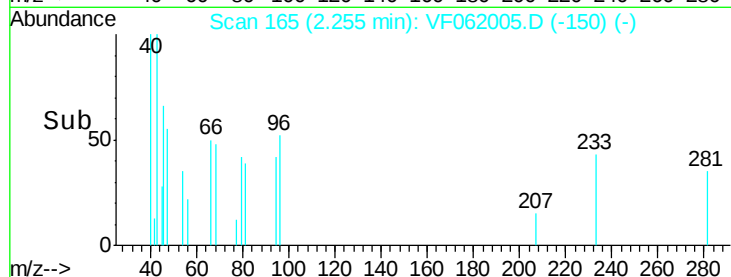
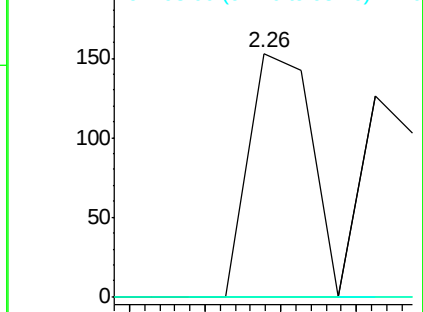
96 100

61 0.0 117.4 176.2#

98 0.0 51.2 76.8#



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 331.485 ug/l

RT: 2.69 min Scan# 209

Delta R.T. -0.11 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Tgt Ion: 45 Resp: 524

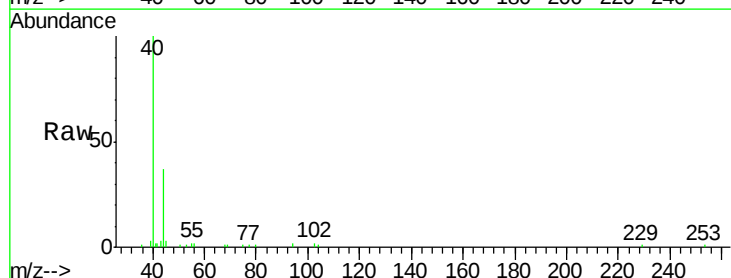
Ion Ratio Lower Upper

45 100

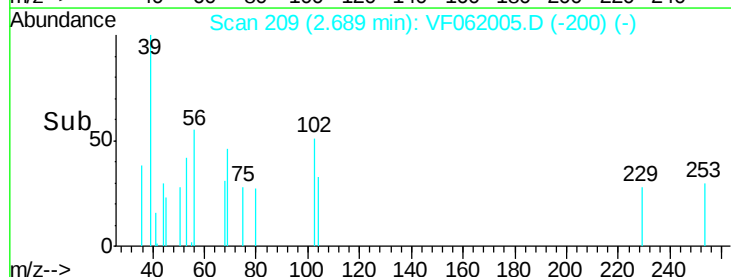
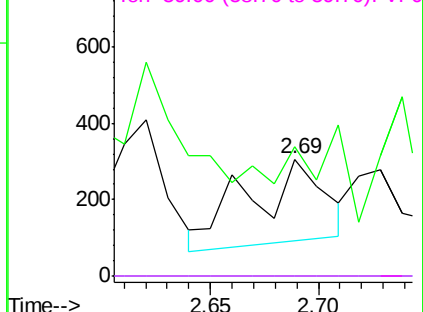
43 110.5 33.7 50.5#

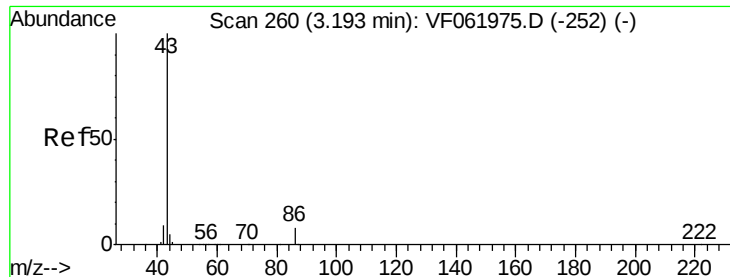
87 0.0 17.1 25.7#

59 0.0 8.0 12.0#



Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 2931.852 ug/l

RT: 3.07 min Scan# 248

Delta R.T. -0.12 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :

MSVOA_F

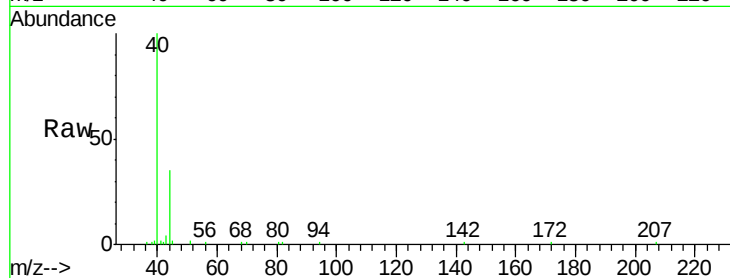
ClientSampleId :

Tot Ion: 43 Resp: 1827

Ion Ratio Lower Upper

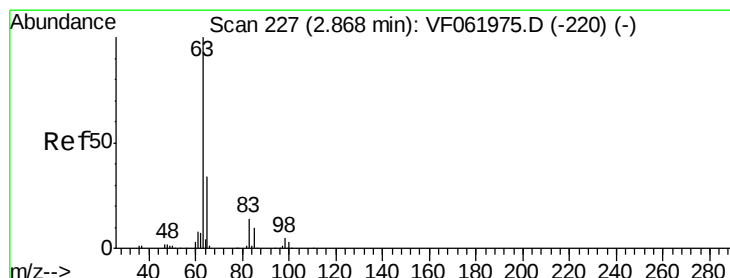
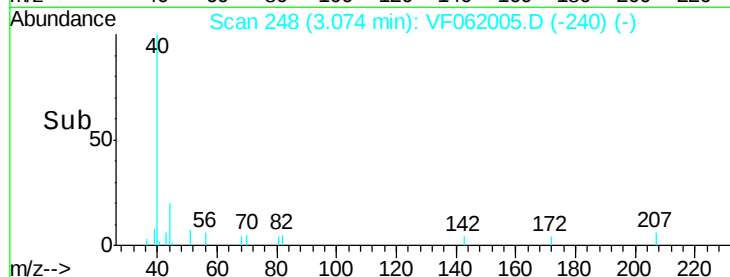
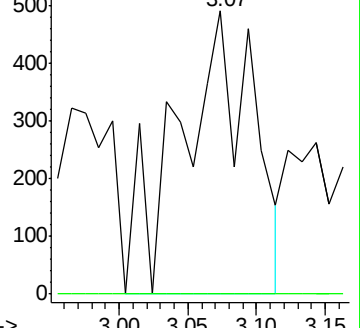
43 100

86 0.0 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 69.629 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.07 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

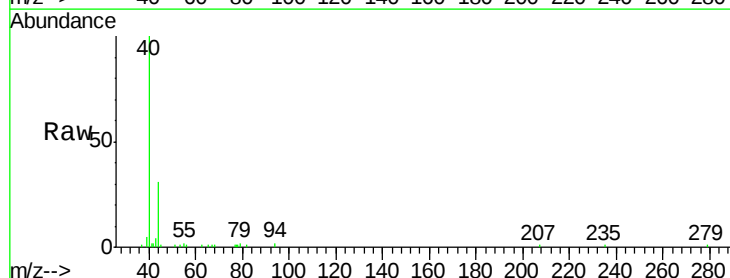
Tgt Ion: 63 Resp: 64

Ion Ratio Lower Upper

63 100

98 0.0 2.7 8.1#

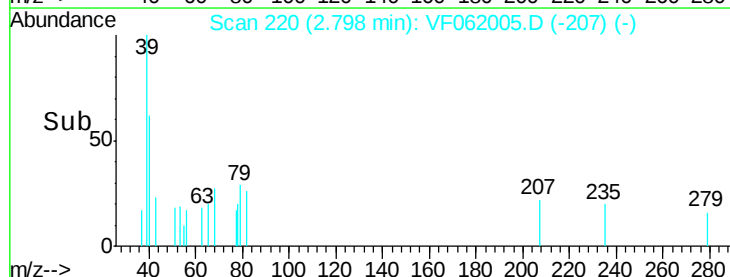
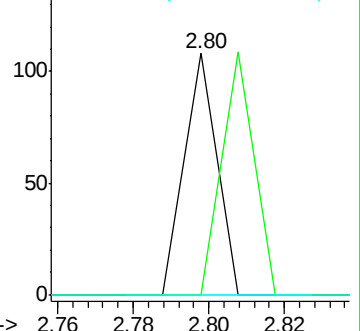
100 0.0 1.7 5.0#

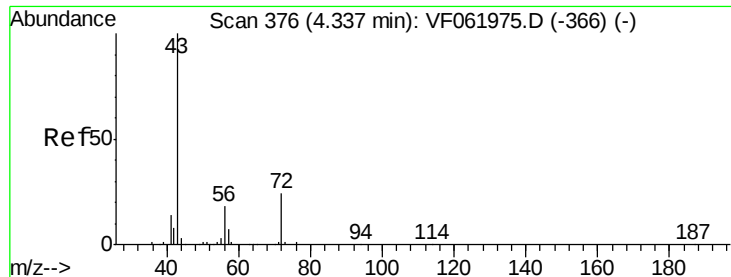


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 419.914 ug/l

RT: 4.18 min Scan# 360

Delta R.T. -0.16 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :

MSVOA_F

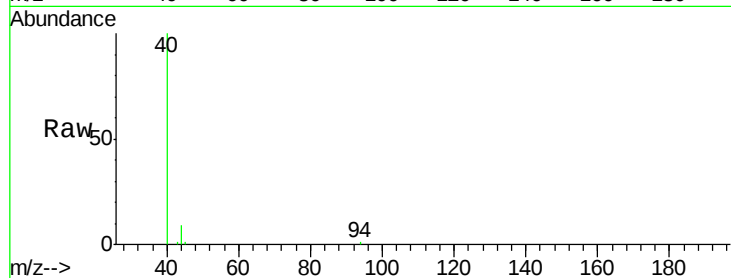
ClientSampleId :

Tot Ion: 43 Resp: 82

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.18

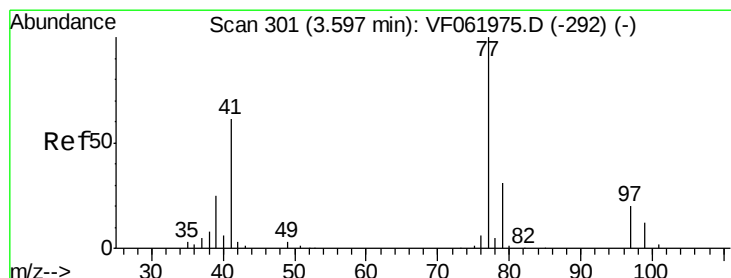
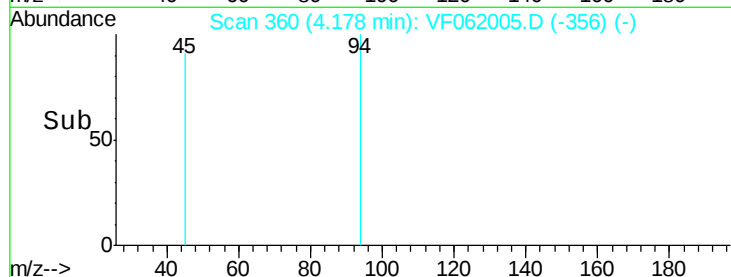
150

100

50

0

Time-->



#26

2,2-Dichloropropane

Concen: 143.005 ug/l

RT: 3.33 min Scan# 274

Delta R.T. -0.27 min

Lab File: VF062005.D

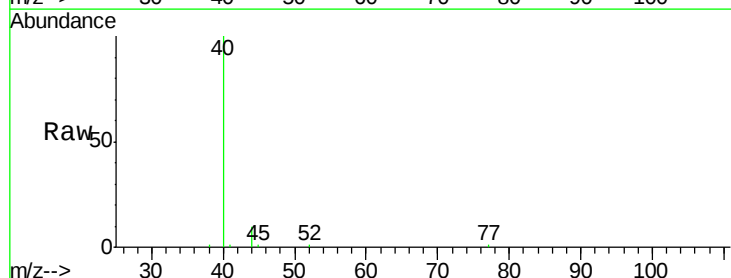
Acq: 18 Mar 2019 18:55

Tgt Ion: 77 Resp: 62

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.33

120

100

80

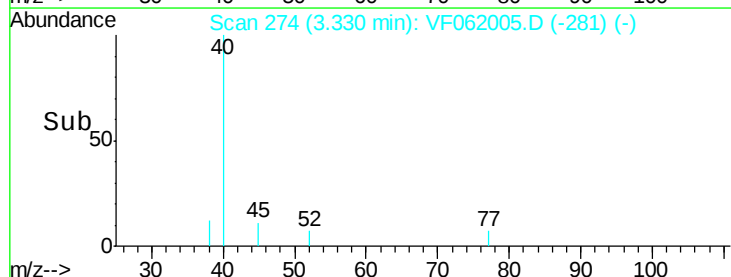
60

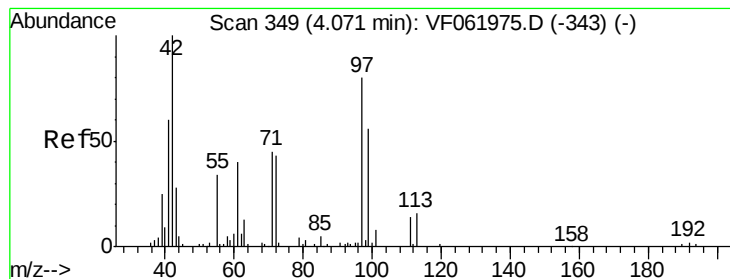
40

20

0

Time-->





#29

Tetrahydrofuran

Concen: 753.602 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.10 min

Lab File: VF062005.D

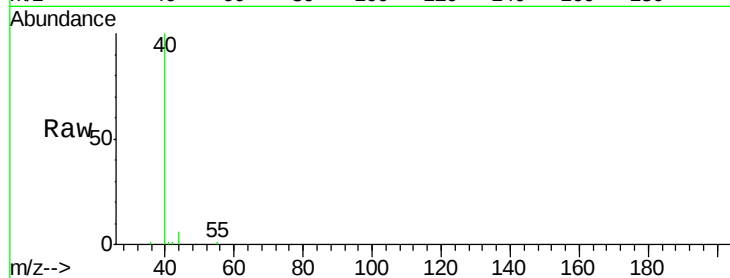
Acq: 18 Mar 2019 18:55

Instrument :

MSVOA_F

ClientSampleId :

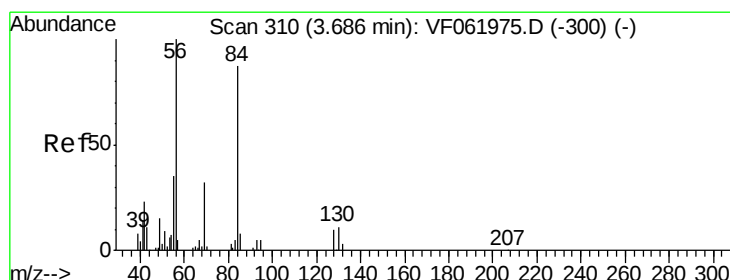
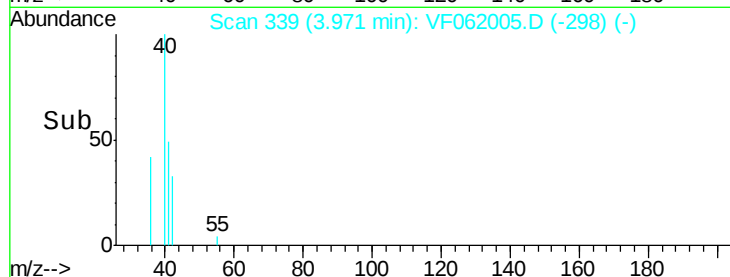
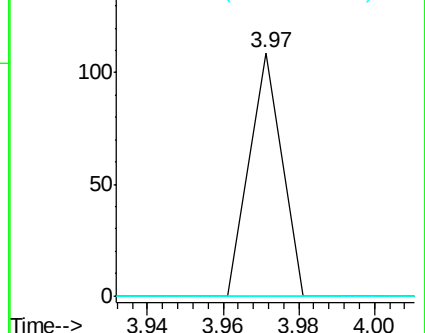
Tot Ion:	42	Resp:	64
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.0	51.0#
71	0.0	34.2	51.4#



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



#31

Cyclohexane

Concen: 66.627 ug/l

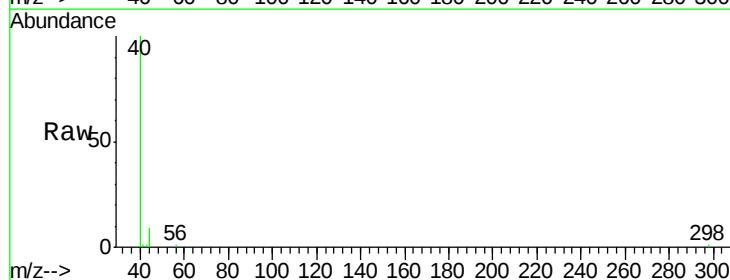
RT: 3.69 min Scan# 310

Delta R.T. -0.00 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

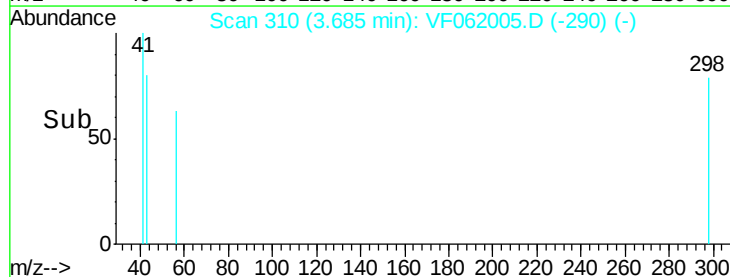
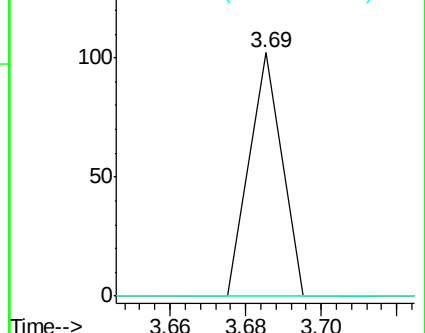
Tgt Ion:	56	Resp:	60
Ion	Ratio	Lower	Upper
56	100		
69	0.0	25.8	38.8#
84	0.0	69.5	104.3#

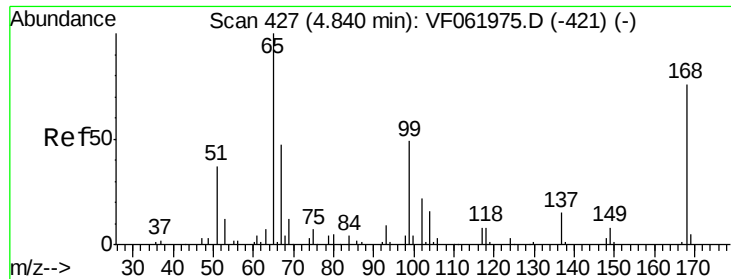


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 159.416 ug/l

RT: 4.62 min Scan# 405

Delta R.T. -0.22 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :

MSVOA_F

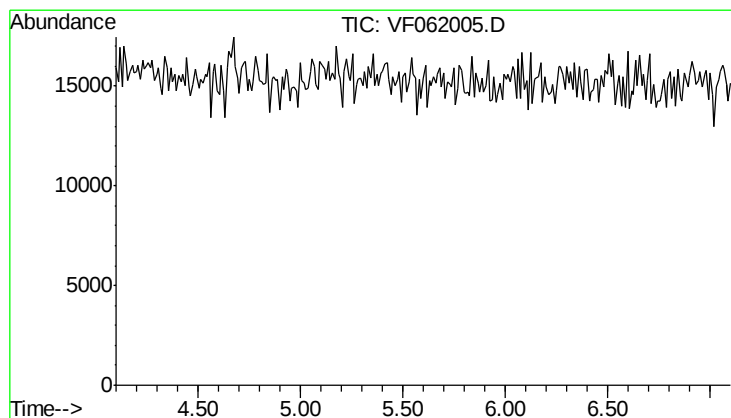
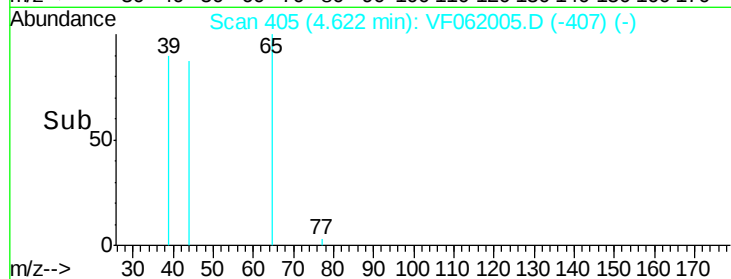
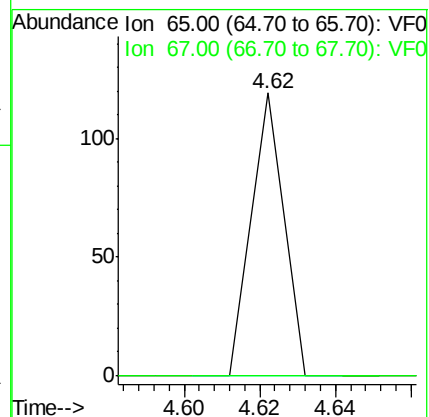
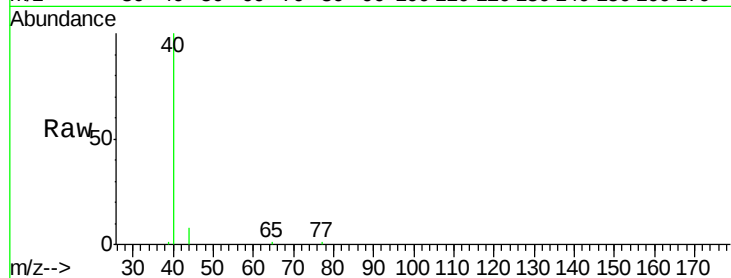
ClientSampleId :

Tot Ion: 65 Resp: 70

Ion Ratio Lower Upper

65 100

67 0.0 0.0 109.4



#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.60 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

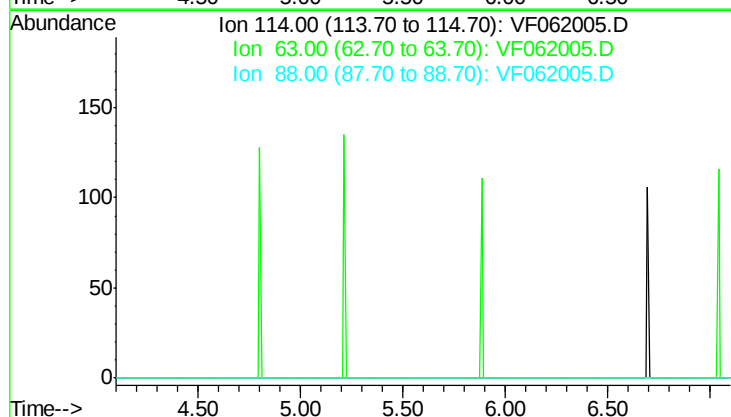
Tgt Ion: 114

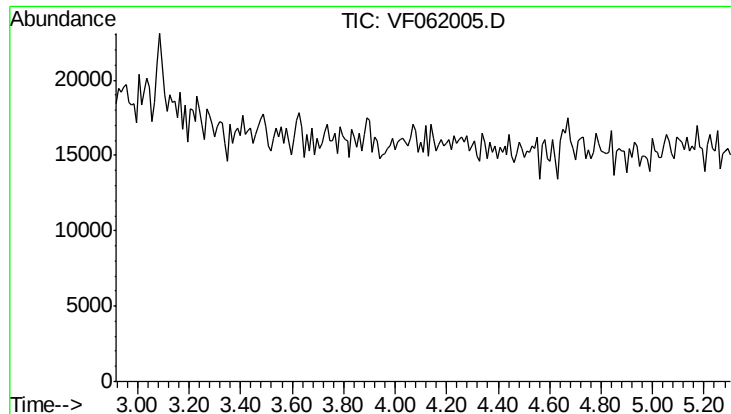
Sig Exp Ratio

114 100

63 18.2

88 18.2





#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 4.11 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

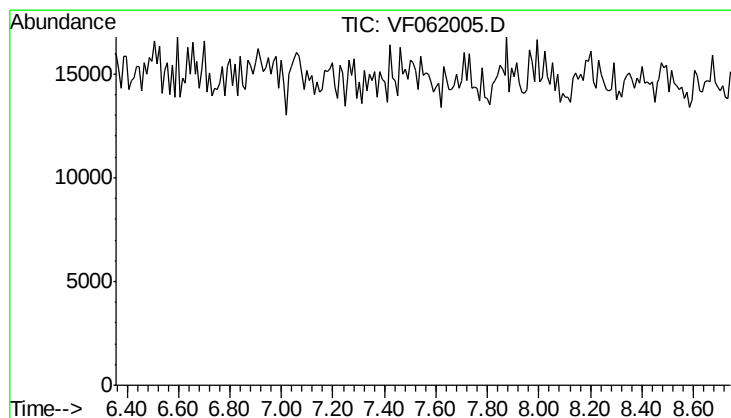
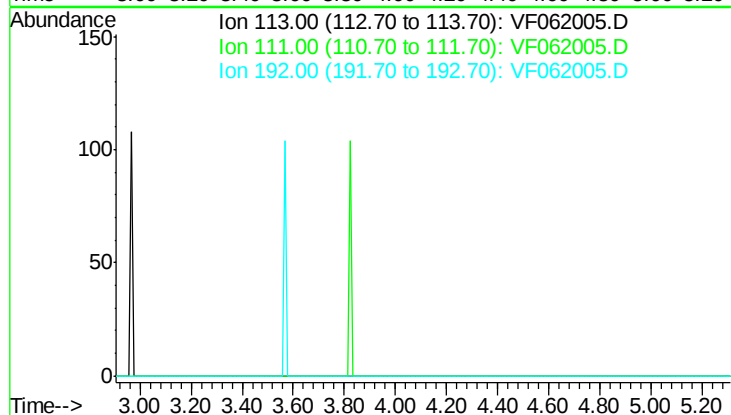
Tot Ion: 113

Sig	Exp Ratio
113	100
111	101.0
192	16.3

Instrument :

MSVOA_F

ClientSampleId :



#50

Toluene-d8

Concen: 0.000 ug/l

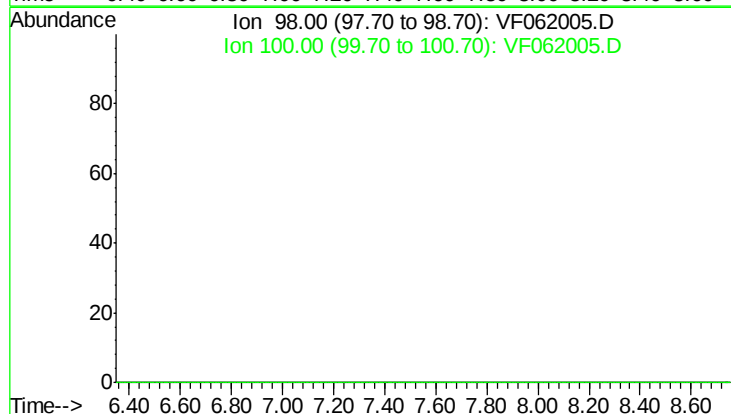
Expected RT: 7.55 min

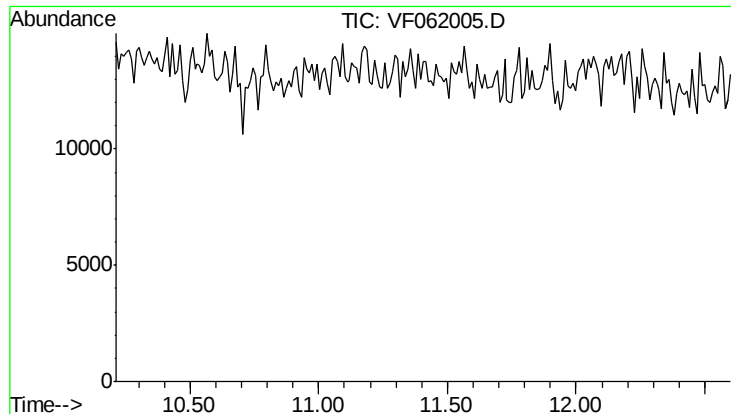
Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	71.0

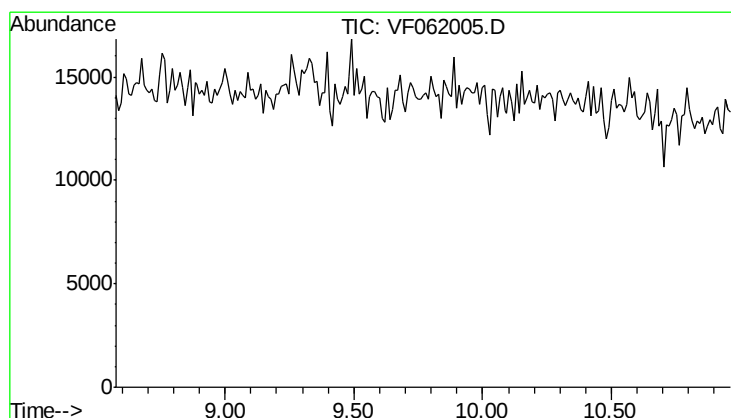
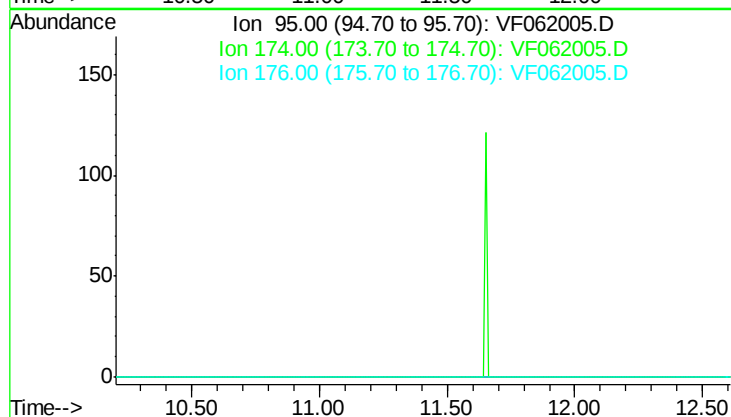




#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 11.41 min
 Lab File: VF062005.D
 Acq: 18 Mar 2019 18:55

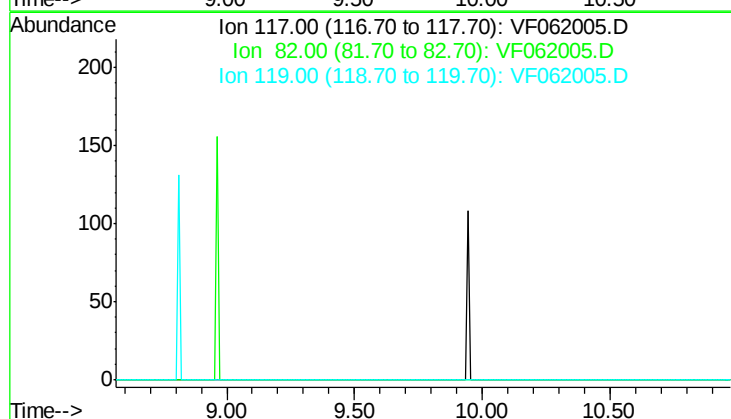
Instrument :
 MSVOA_F
 ClientSampleId :

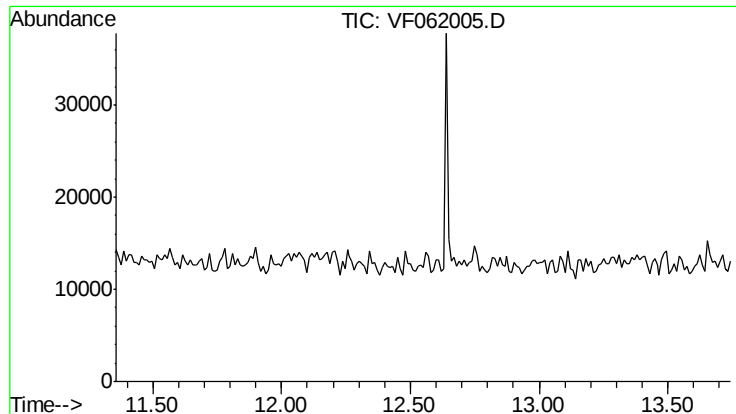
Tot Ion	95
Sig	Exp Ratio
95	100
174	74.7
176	71.7



#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.77 min
 Lab File: VF062005.D
 Acq: 18 Mar 2019 18:55

Tgt Ion	117
Sig	Exp Ratio
117	100
82	53.1
119	31.7





#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 12.55 min

Lab File: VF062005.D

Acq: 18 Mar 2019 18:55

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 152

Sig Exp Ratio

152 100

115 54.6

150 158.1

