

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF062218\
 Data File : VF059285.D
 Acq On : 22 Jun 2018 20:33
 Operator : VA/AP
 Sample : J3638-04
 Misc : 5.24g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 V-1

Quant Time: Jun 23 04:37:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 22 05:22:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	210444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	322133	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	286730	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	126786	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	153280	50.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.48%	
35) Dibromofluoromethane	4.29	113	151742	55.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.98%	
50) Toluene-d8	7.70	98	302272	43.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.70%	
62) 4-Bromofluorobenzene	11.50	95	137835	36.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	72.12%	

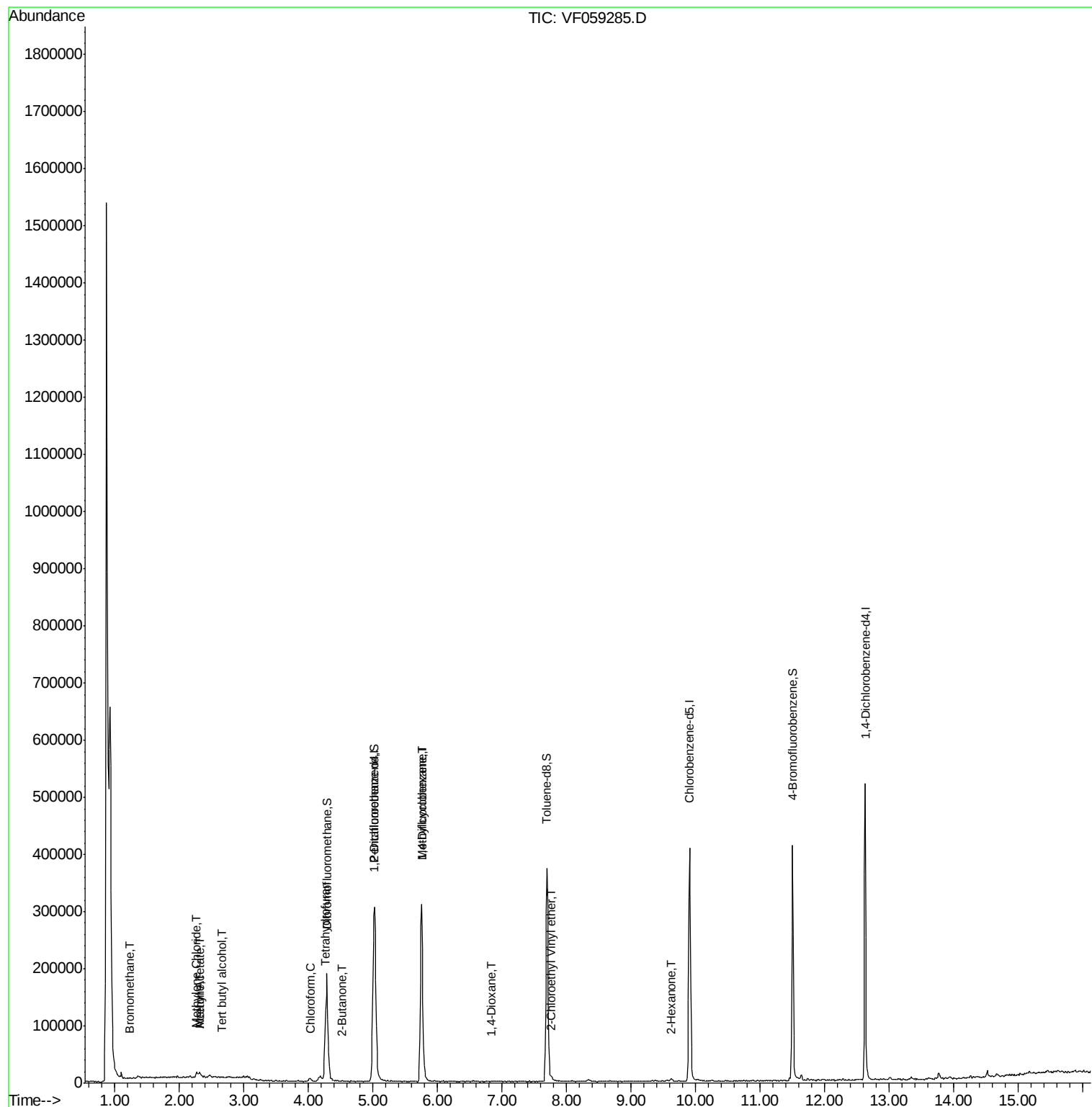
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.24	94	93	1.861	ug/l	96
11) Tert butyl alcohol	2.67	59	477	2.710	ug/l #	70
13) Acrolein	2.05	56	431	Below Cal	#	1
15) Acrylonitrile	2.93	53	280	Below Cal		91
16) Acetone	2.33	43	1972	2.762	ug/l #	64
18) Methyl Acetate	2.33	43	1972	1.465	ug/l	98
20) Methylene Chloride	2.27	84	4547	1.253	ug/l	85
25) 2-Butanone	4.52	43	966	1.014	ug/l #	58
28) Bromochloromethane	3.96	49	70	Below Cal	#	8
29) Tetrahydrofuran	4.26	42	498	1.165	ug/l #	62
30) Chloroform	4.03	83	6371	1.188	ug/l	87
39) Methylcyclohexane	5.75	83	4754	1.569	ug/l #	43
49) 1,4-Dioxane	6.83	88	66	6.782	ug/l #	17
58) 2-Chloroethyl Vinyl ether	7.77	63	313	1.600	ug/l	100
59) 2-Hexanone	9.62	43	3966	2.646	ug/l	94

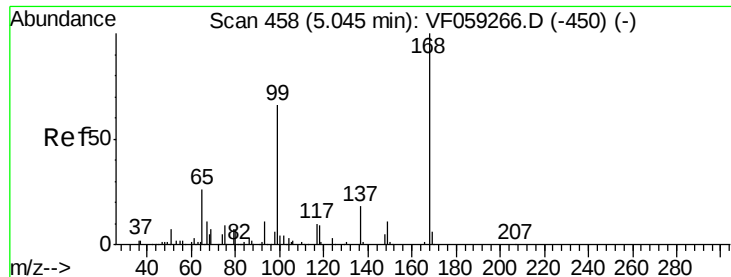
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059285.D

Acq: 22 Jun 2018 20:33

Instrument :

MSVOA_F

ClientSampleId :

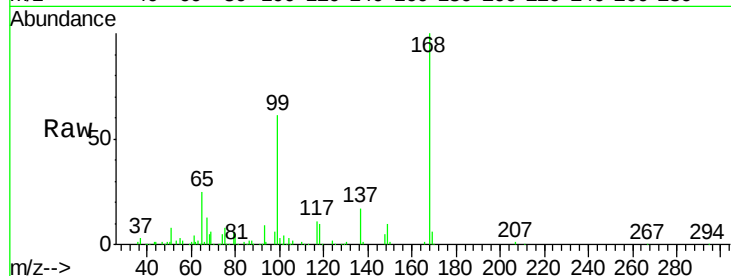
V-1

Tgt Ion:168 Resp: 210444

Ion Ratio Lower Upper

168 100

99 61.3 52.6 78.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

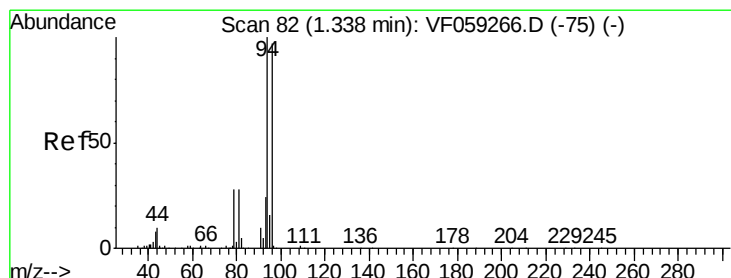
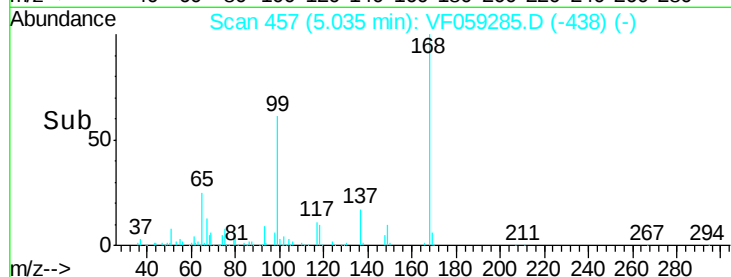
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: 1.861 ug/l

RT: 1.24 min Scan# 72

Delta R.T. -0.10 min

Lab File: VF059285.D

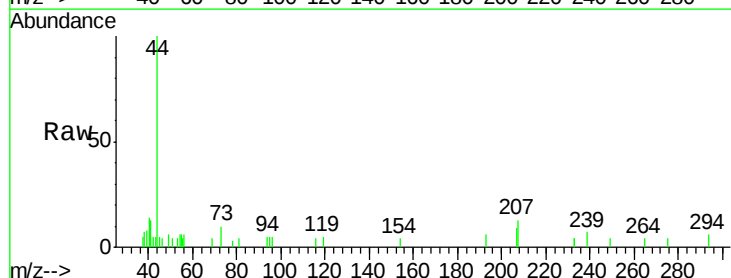
Acq: 22 Jun 2018 20:33

Tgt Ion: 94 Resp: 93

Ion Ratio Lower Upper

94 100

96 93.0 77.7 116.5



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.24

150

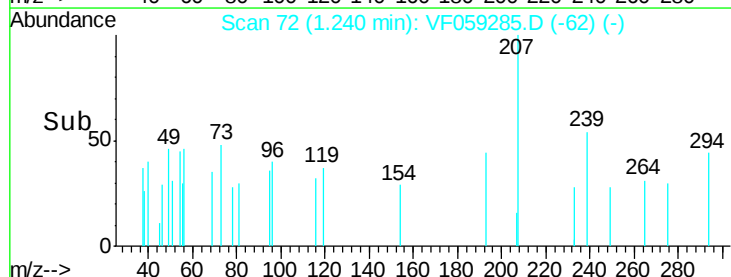
100

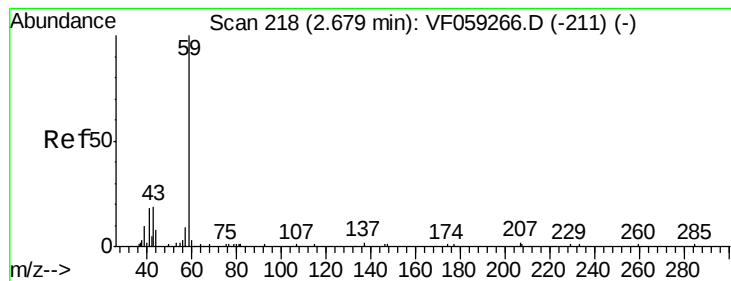
50

0

Time-->

1.22 1.24 1.26



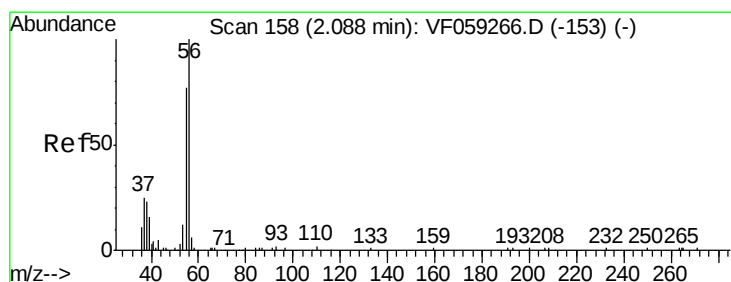
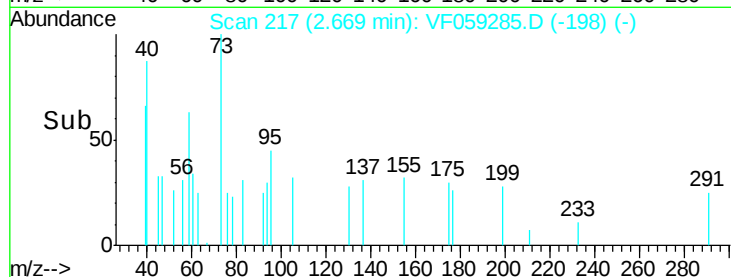
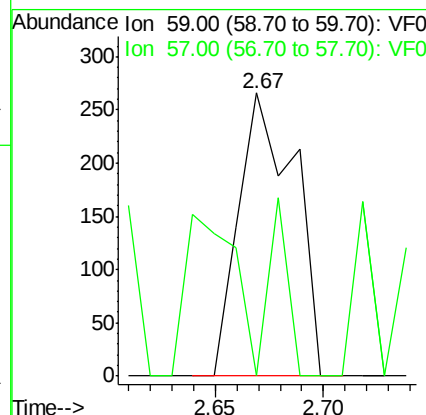
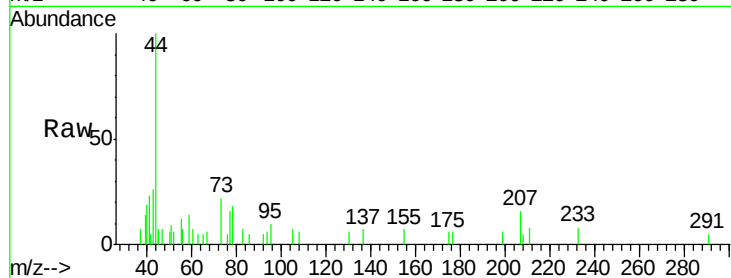


#11

Tert butyl alcohol
Concen: 2.710 ug/l
RT: 2.67 min Scan# 217
Delta R.T. -0.01 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

Instrument :
MSVOA_F
ClientSampled :
V-1

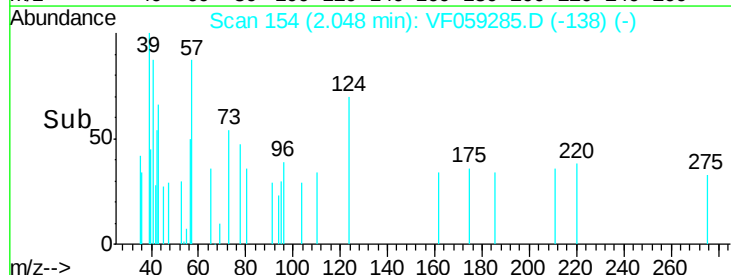
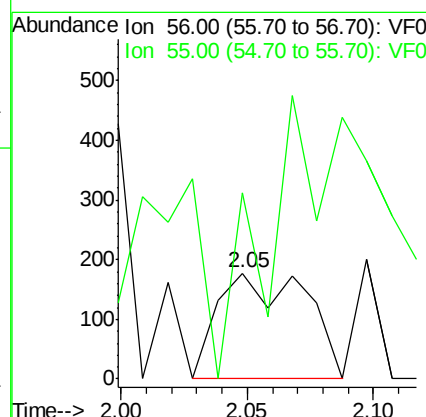
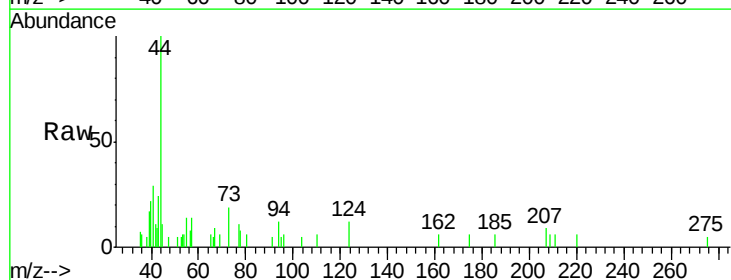
Tgt Ion: 59 Resp: 477
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8#

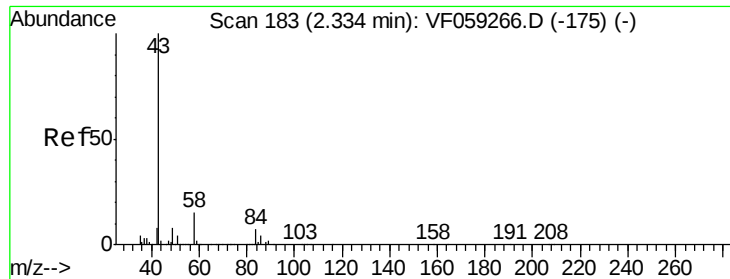


#13

Acrolein
Concen: Below Cal
RT: 2.05 min Scan# 154
Delta R.T. -0.04 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

Tgt Ion: 56 Resp: 431
Ion Ratio Lower Upper
56 100
55 175.7 63.0 94.6#





#16

Acetone

Concen: 2.762 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF059285.D

Acq: 22 Jun 2018 20:33

Instrument :

MSVOA_F

ClientSampled :

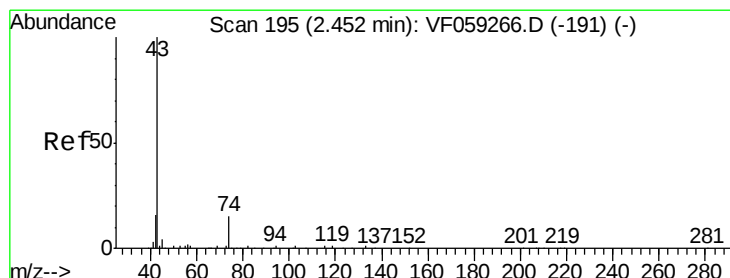
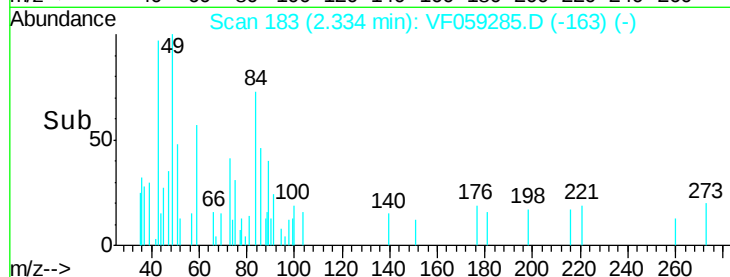
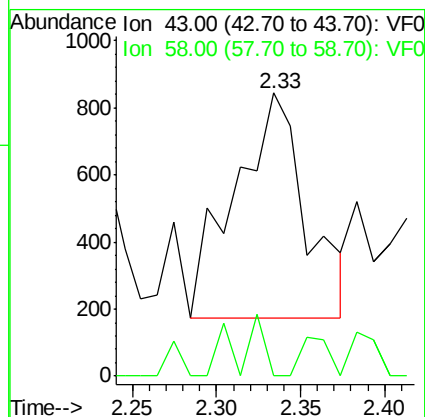
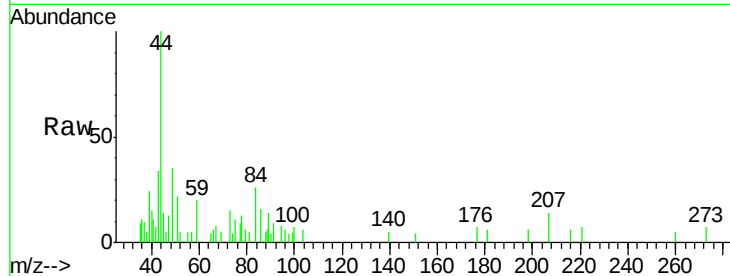
V-1

Tgt Ion: 43 Resp: 1972

Ion Ratio Lower Upper

43 100

58 0.0 12.1 18.1#



#18

Methyl Acetate

Concen: 1.465 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.12 min

Lab File: VF059285.D

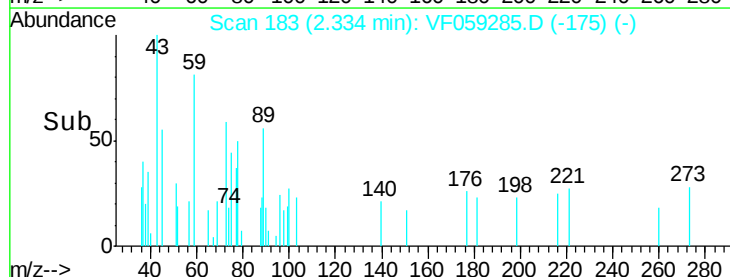
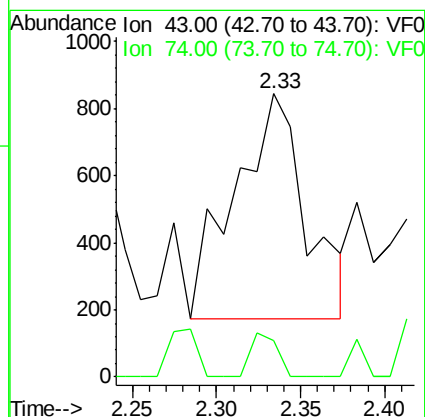
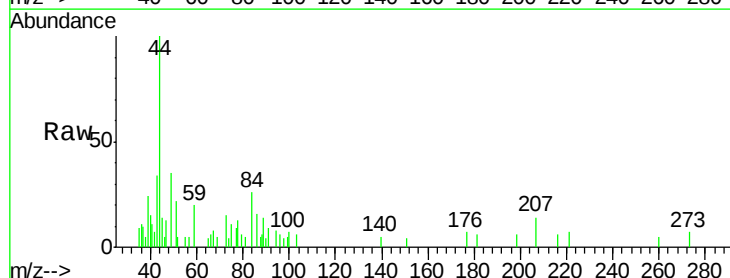
Acq: 22 Jun 2018 20:33

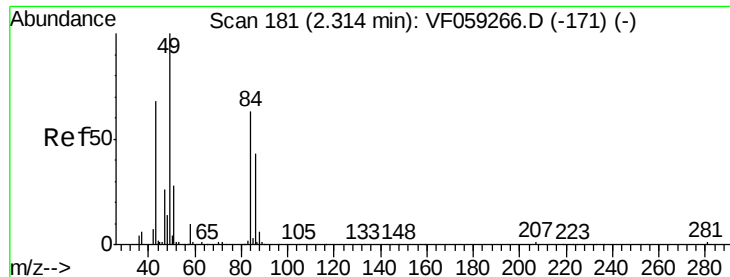
Tgt Ion: 43 Resp: 1972

Ion Ratio Lower Upper

43 100

74 12.8 11.0 16.4

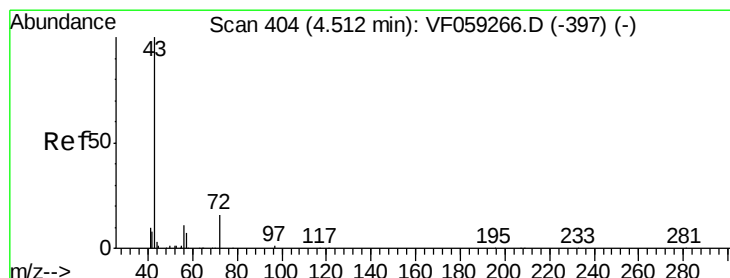
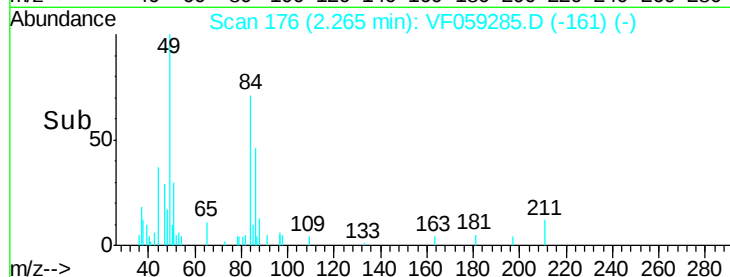
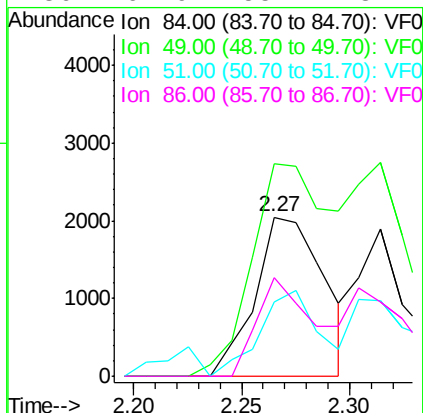
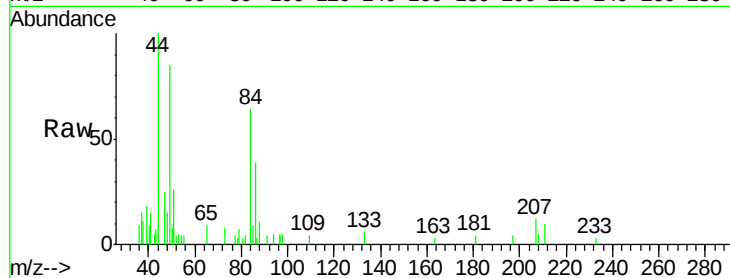




#20
Methylene Chloride
Concen: 1.253 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.05 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

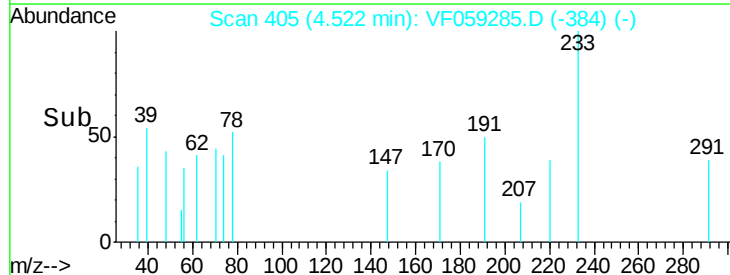
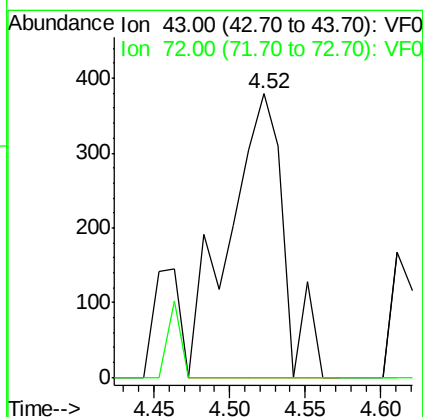
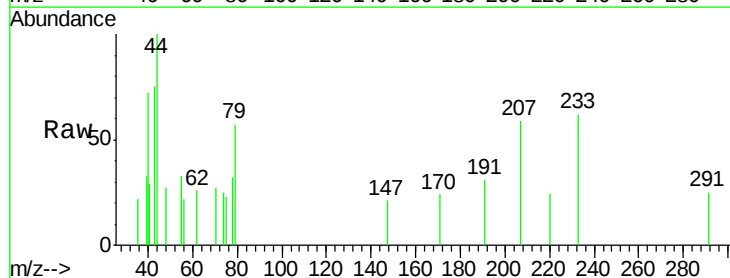
Instrument :
MSVOA_F
ClientSampled :
V-1

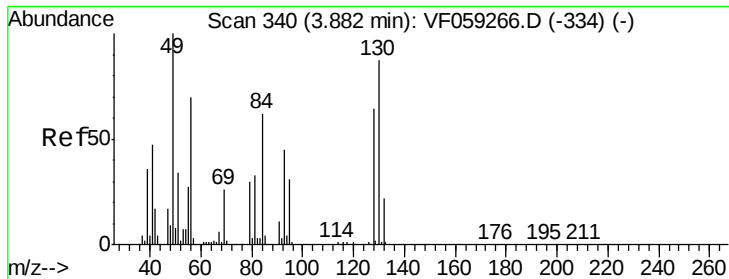
Tgt Ion:	84	Resp:	4547
Ion	Ratio	Lower	Upper
84	100		
49	133.7	130.0	195.0
51	46.7	36.6	55.0
86	61.9	55.1	82.7



#25
2-Butanone
Concen: 1.014 ug/l
RT: 4.52 min Scan# 405
Delta R.T. 0.01 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

Tgt Ion:	43	Resp:	966
Ion	Ratio	Lower	Upper
43	100		
72	0.0	15.2	22.8#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.96 min Scan# 348

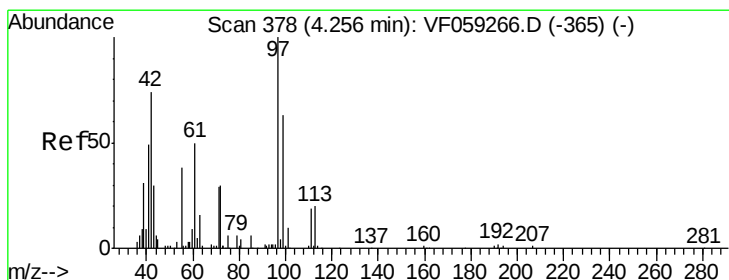
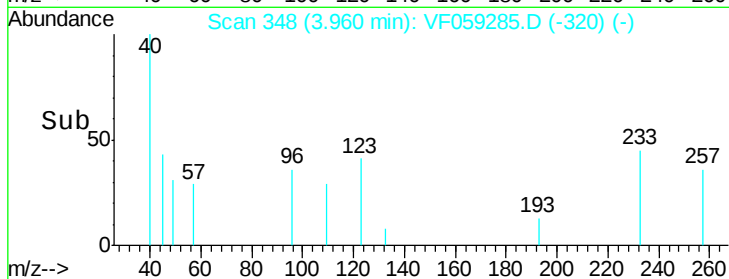
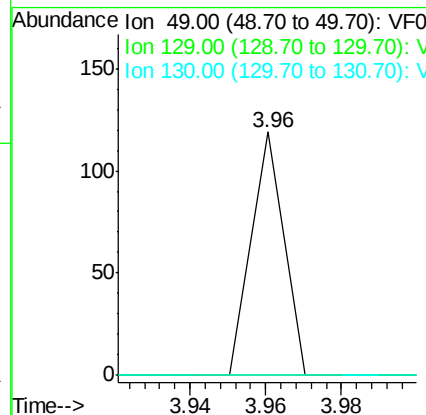
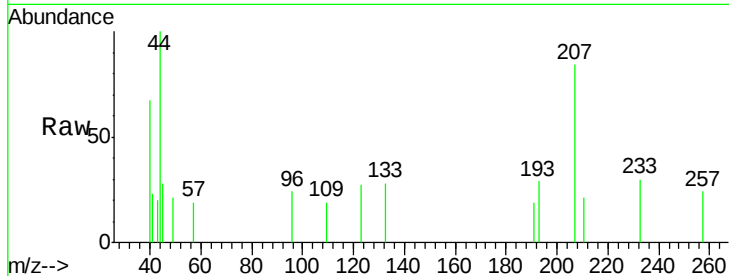
Delta R.T. 0.08 min

Lab File: VF059285.D

Acq: 22 Jun 2018 20:33

Instrument :
MSVOA_F
ClientSampleId :
V-1

Tgt Ion: 49 Resp: 70
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 69.4 104.2#



#29

Tetrahydrofuran

Concen: 1.165 ug/l

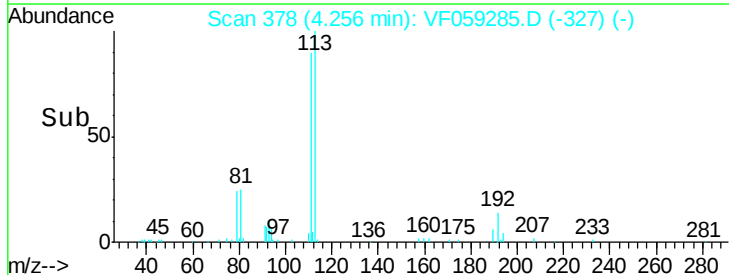
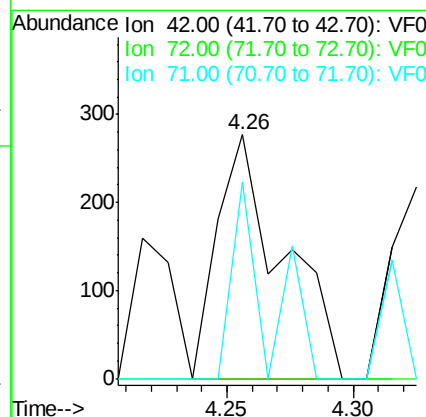
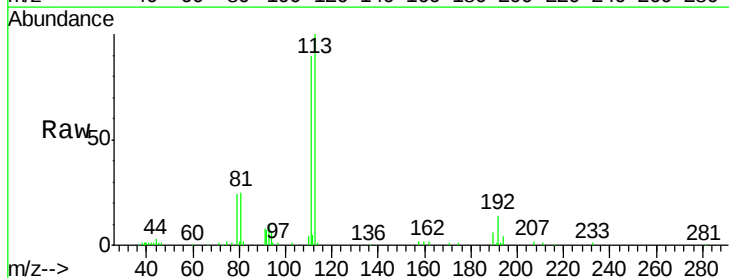
RT: 4.26 min Scan# 378

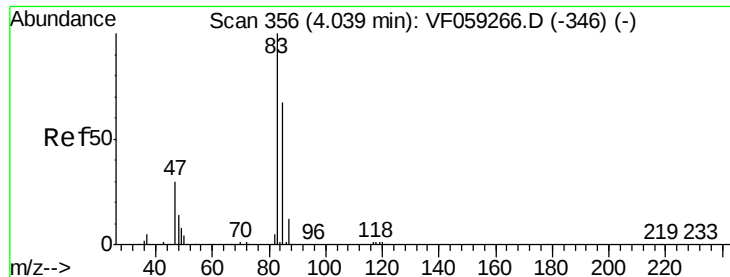
Delta R.T. -0.00 min

Lab File: VF059285.D

Acq: 22 Jun 2018 20:33

Tgt Ion: 42 Resp: 498
Ion Ratio Lower Upper
42 100
72 0.0 31.2 46.8#
71 44.4 30.2 45.2

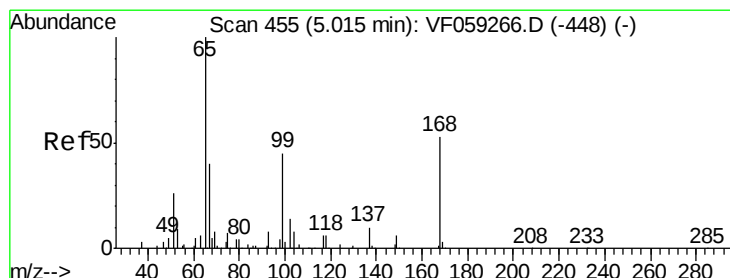
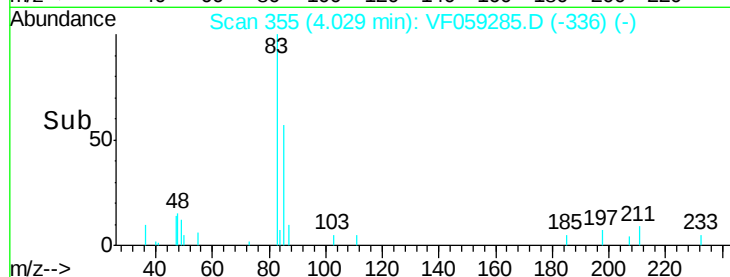
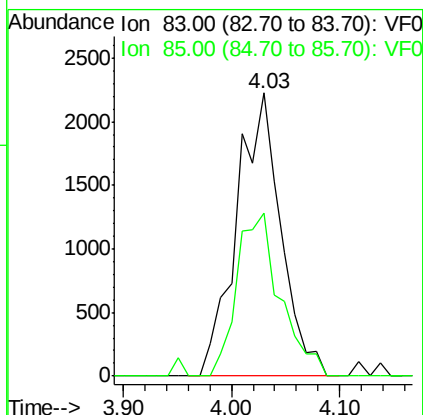
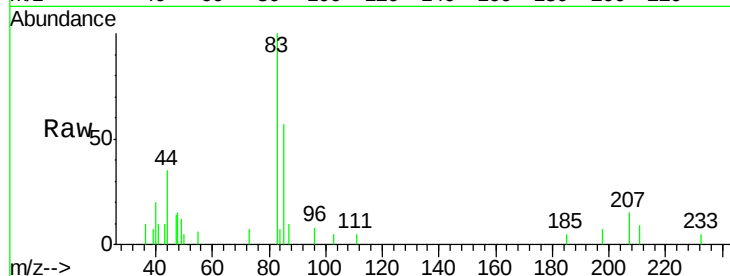




#30
Chloroform
Concen: 1.188 ug/l
RT: 4.03 min Scan# 355
Delta R.T. -0.01 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

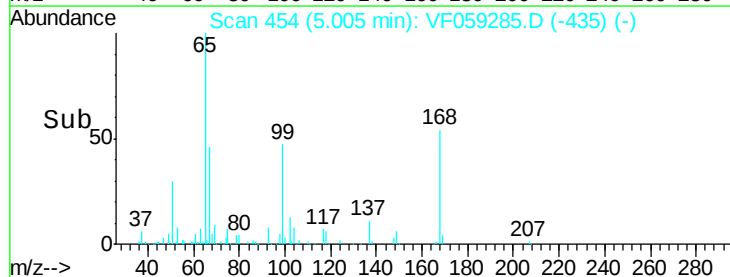
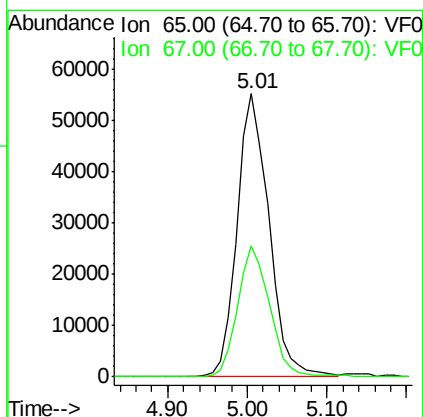
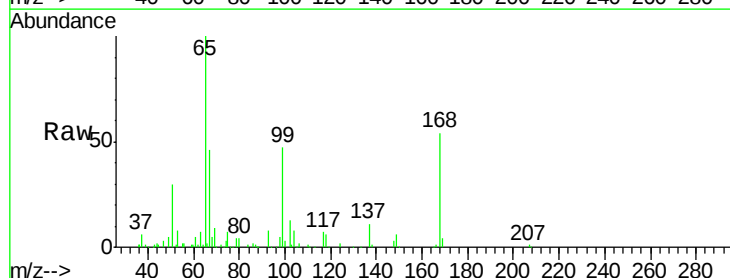
Instrument :
MSVOA_F
ClientSampleId :
V-1

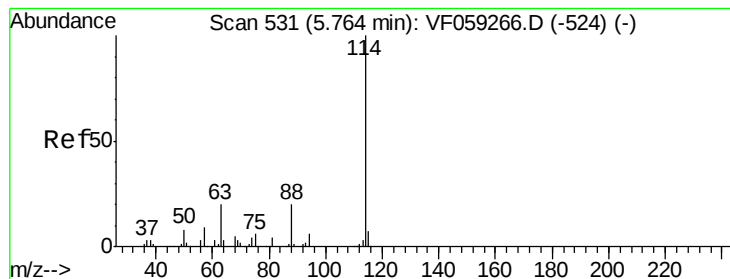
Tgt Ion: 83 Resp: 6371
Ion Ratio Lower Upper
83 100
85 57.4 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 50.742 ug/l
RT: 5.01 min Scan# 454
Delta R.T. -0.01 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

Tgt Ion: 65 Resp: 153280
Ion Ratio Lower Upper
65 100
67 46.4 0.0 95.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.01 min

Lab File: VF059285.D

Acq: 22 Jun 2018 20:33

Instrument :

MSVOA_F

ClientSampleId :

V-1

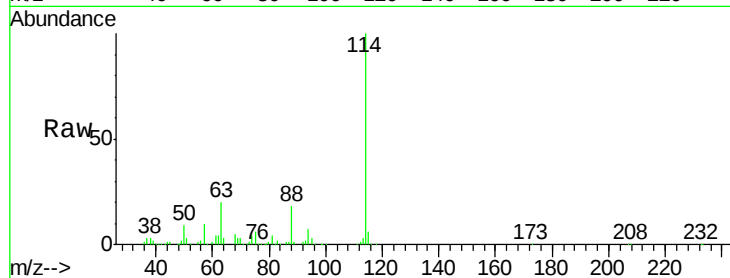
Tgt Ion:114 Resp: 322133

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.0

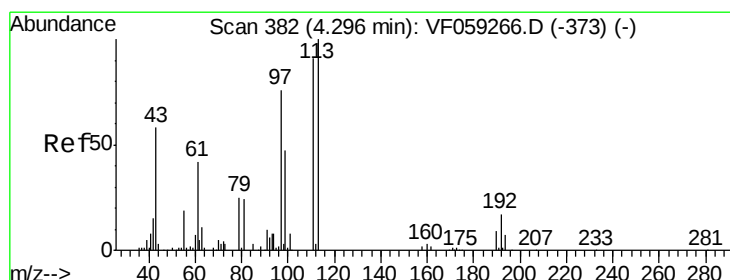
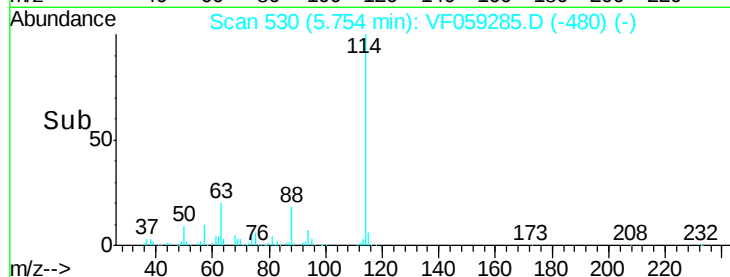
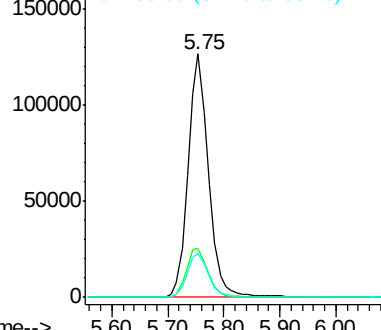
88 18.3 0.0 39.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 55.988 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059285.D

Acq: 22 Jun 2018 20:33

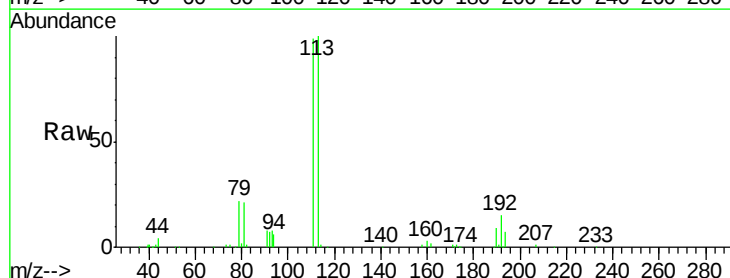
Tgt Ion:113 Resp: 151742

Ion Ratio Lower Upper

113 100

111 99.2 73.1 109.7

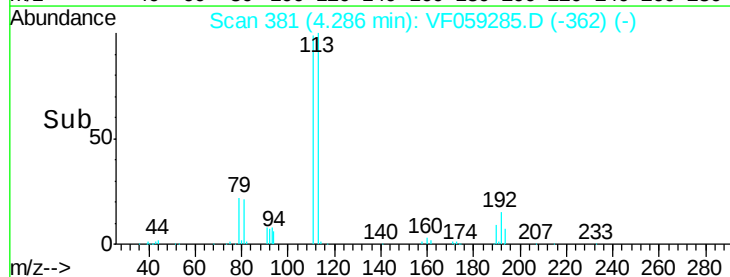
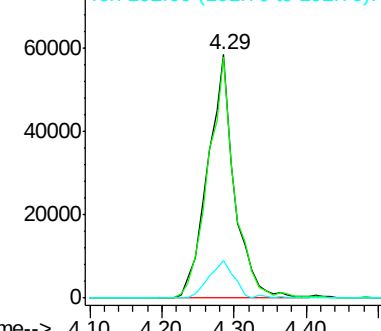
192 15.4 13.9 20.9

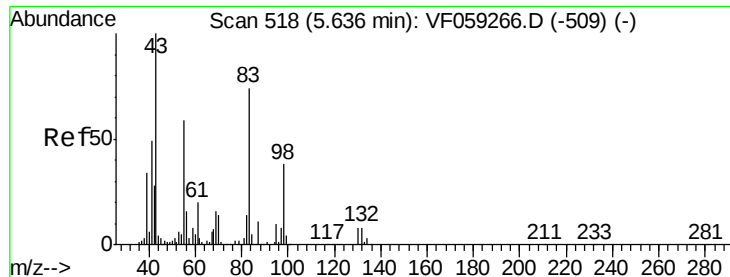


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

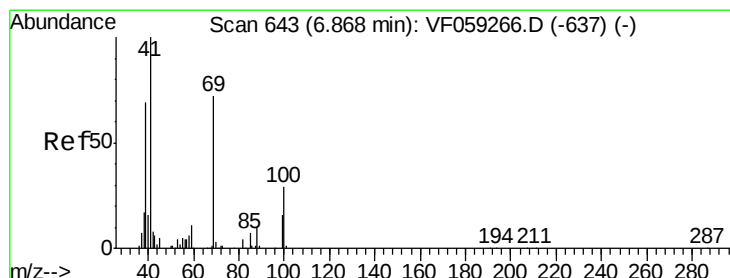
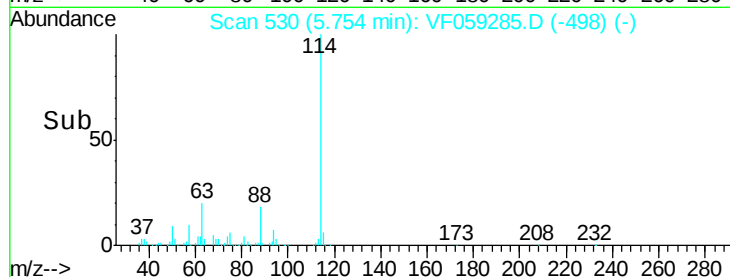
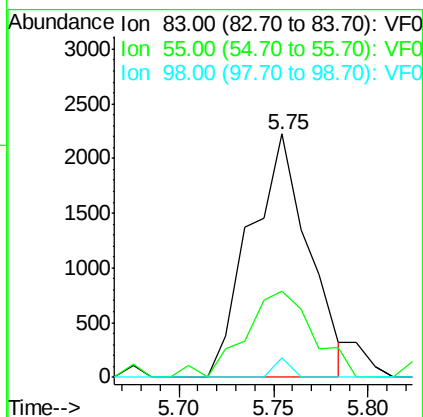
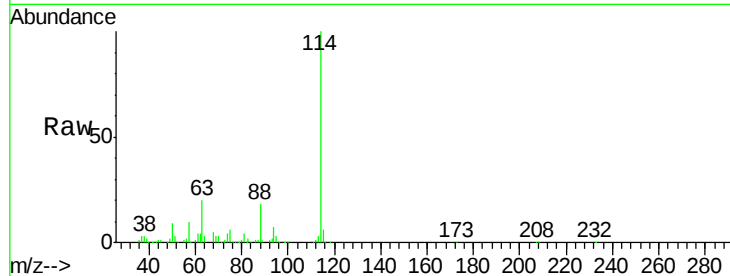




#39
Methylcyclohexane
Concen: 1.569 ug/l
RT: 5.75 min Scan# 530
Delta R.T. 0.12 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

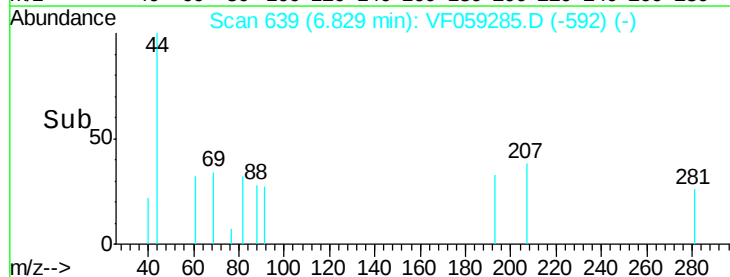
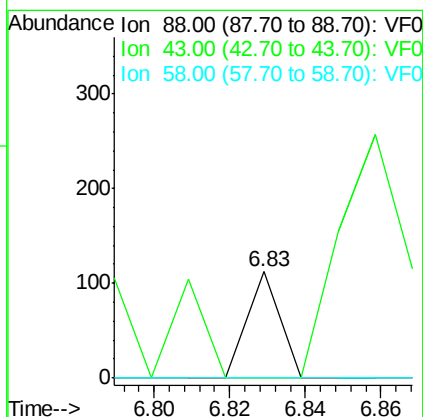
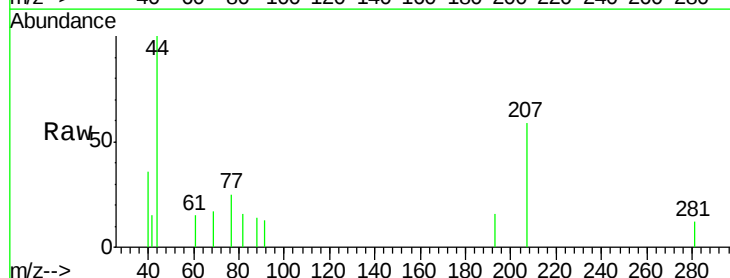
Instrument :
MSVOA_F
ClientSampleId :
V-1

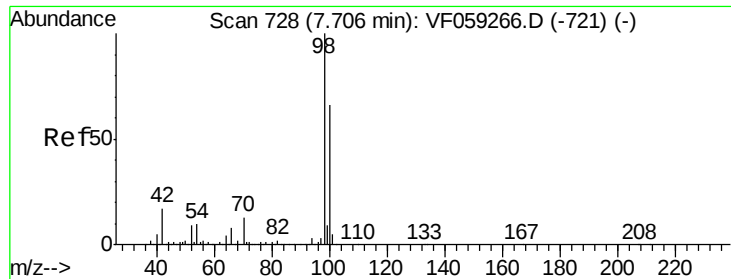
Tgt Ion: 83 Resp: 4754
Ion Ratio Lower Upper
83 100
55 33.5 63.7 95.5#
98 7.4 41.6 62.4#



#49
1,4-Dioxane
Concen: 6.782 ug/l
RT: 6.83 min Scan# 639
Delta R.T. -0.04 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 0.0 55.5 83.3#
58 0.0 50.1 75.1#

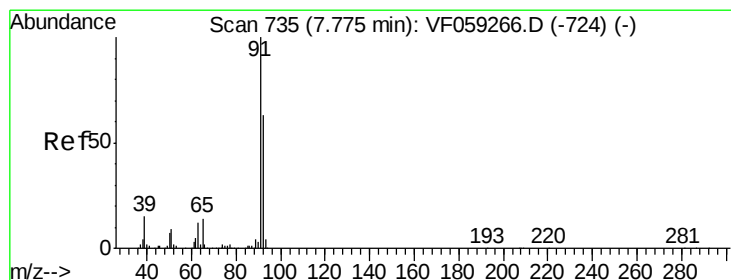
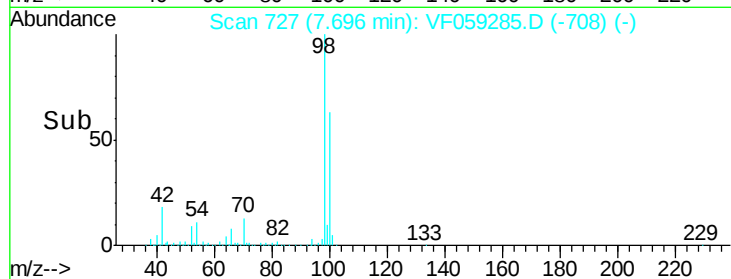
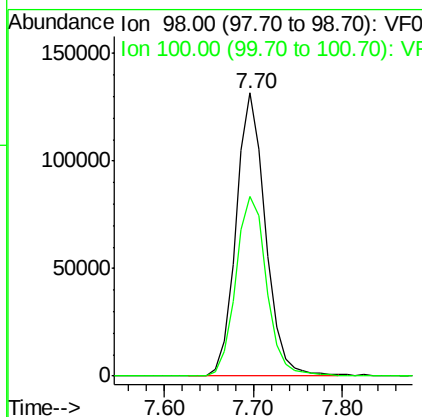
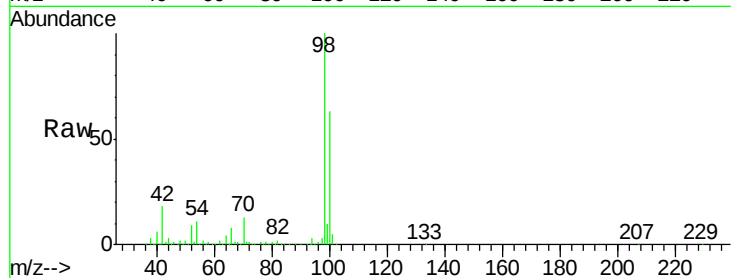




#50
Toluene-d8
Concen: 43.847 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.01 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

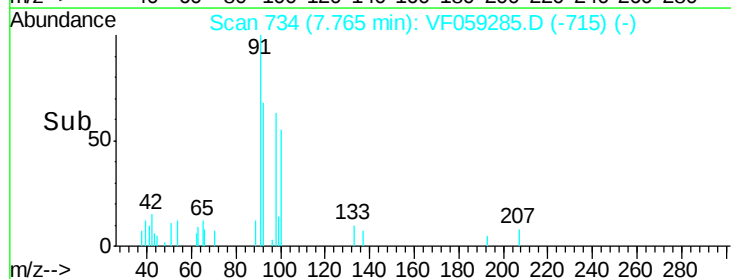
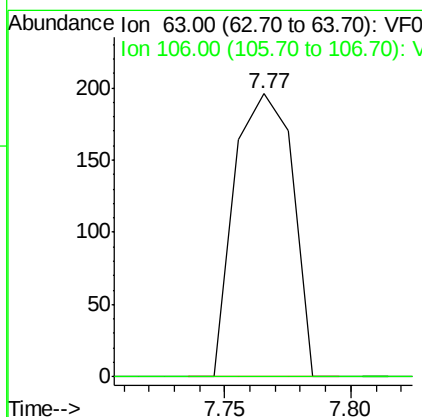
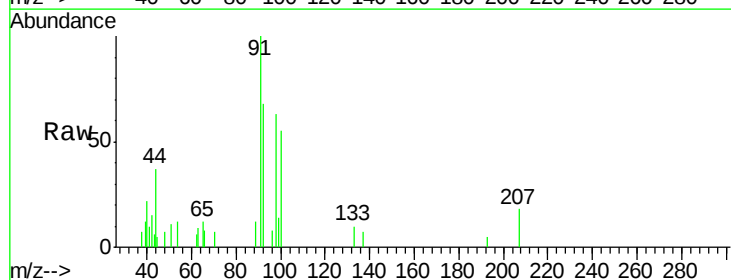
Instrument :
MSVOA_F
ClientSampled :
V-1

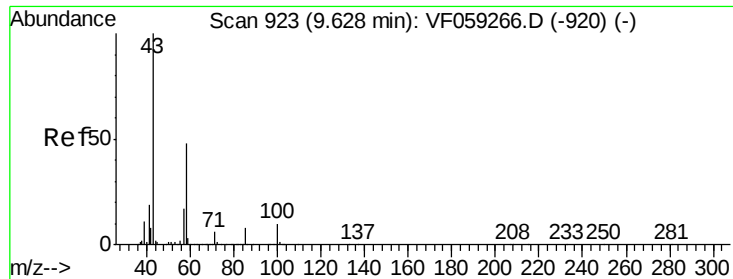
Tgt Ion: 98 Resp: 302272
Ion Ratio Lower Upper
98 100
100 63.3 52.8 79.2



#58
2-Chloroethyl Vinyl ether
Concen: 1.600 ug/l
RT: 7.77 min Scan# 734
Delta R.T. -0.01 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

Tgt Ion: 63 Resp: 313
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0

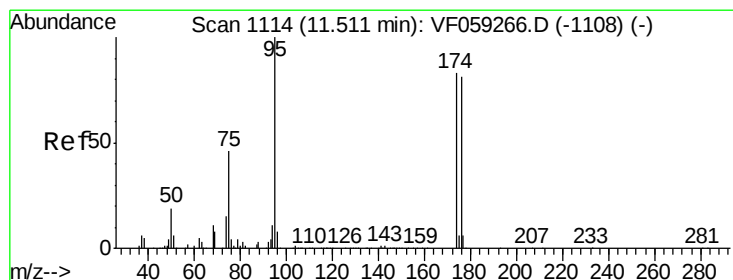
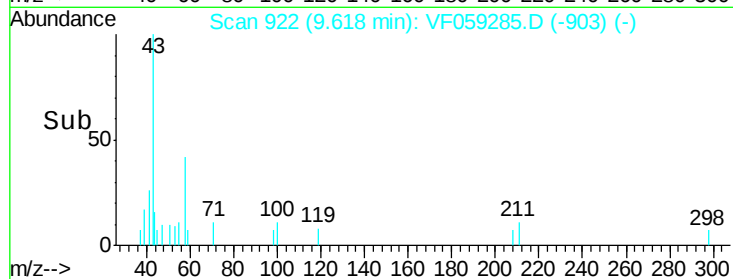
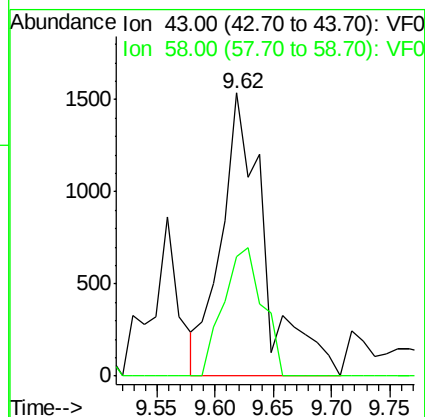
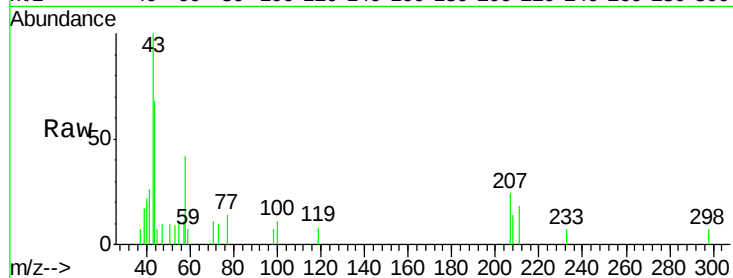




#59
2-Hexanone
Concen: 2.646 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

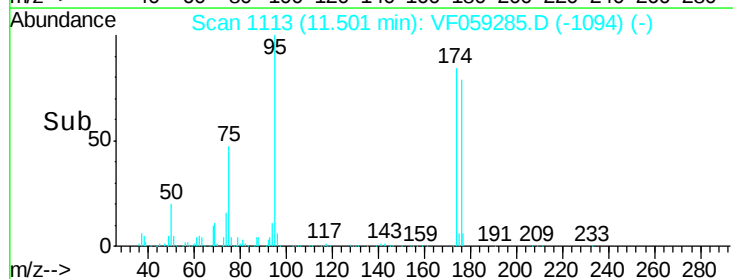
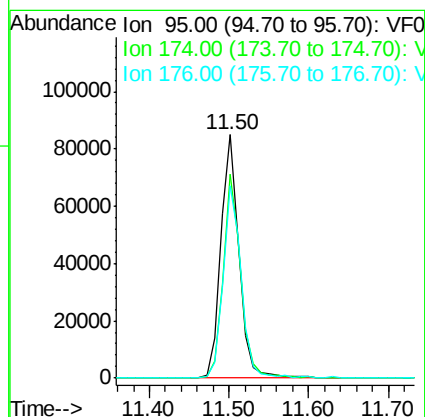
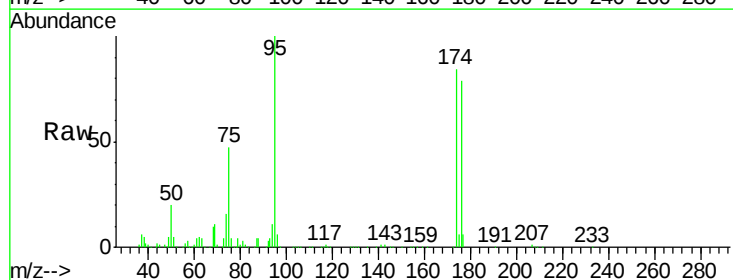
Instrument :
MSVOA_F
ClientSampleId :
V-1

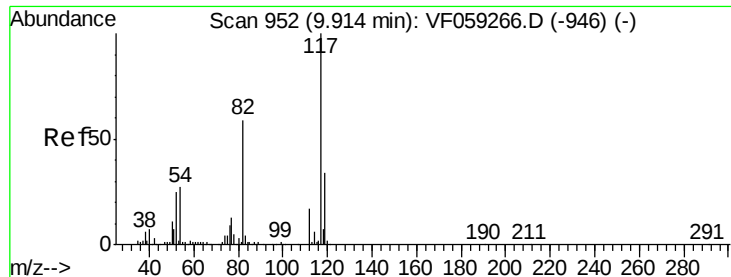
Tgt Ion: 43 Resp: 3966
Ion Ratio Lower Upper
43 100
58 42.4 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 36.056 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF059285.D
Acq: 22 Jun 2018 20:33

Tgt Ion: 95 Resp: 137835
Ion Ratio Lower Upper
95 100
174 83.7 0.0 166.2
176 79.1 0.0 162.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF059285.D

Acq: 22 Jun 2018 20:33

Instrument :

MSVOA_F

ClientSampleId :

V-1

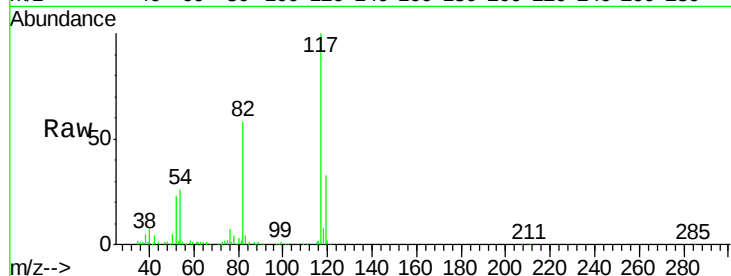
Tgt Ion:117 Resp: 286730

Ion Ratio Lower Upper

117 100

82 58.3 47.1 70.7

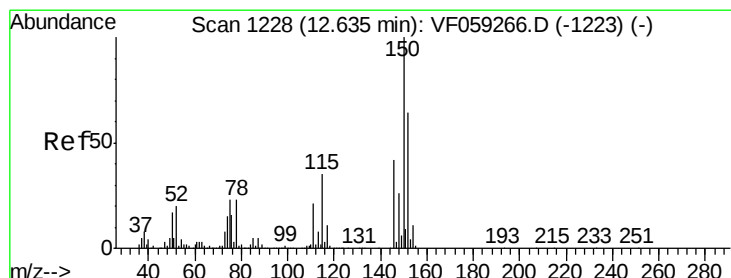
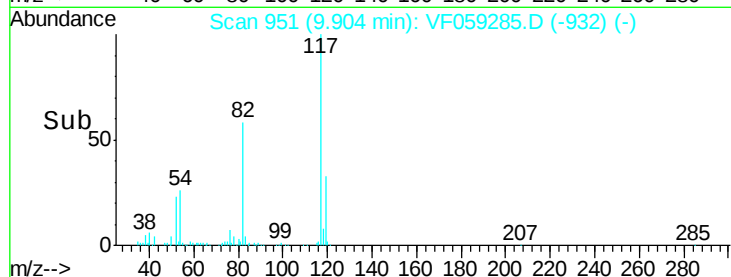
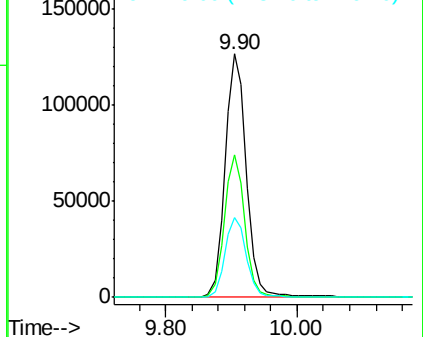
119 32.8 26.9 40.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059285.D

Acq: 22 Jun 2018 20:33

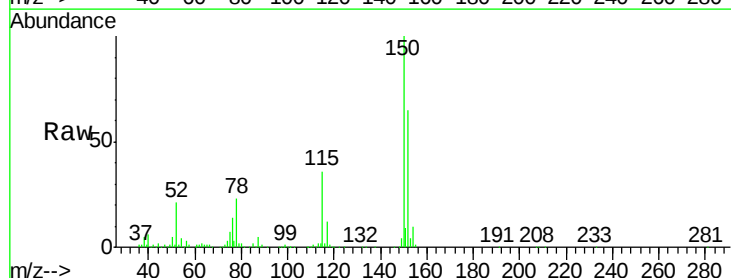
Tgt Ion:152 Resp: 126786

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.3

150 154.8 0.0 313.8



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

