

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW012819\
 Data File : VW008435.D
 Acq On : 28 Jan 2019 13:14
 Operator : SY/VA
 Sample : K1261-03
 Misc : 7.14G/5ML/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MH-C05

Quant Time: Jan 29 04:13:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 25 11:07:41 2019
 Response via : Initial Calibration

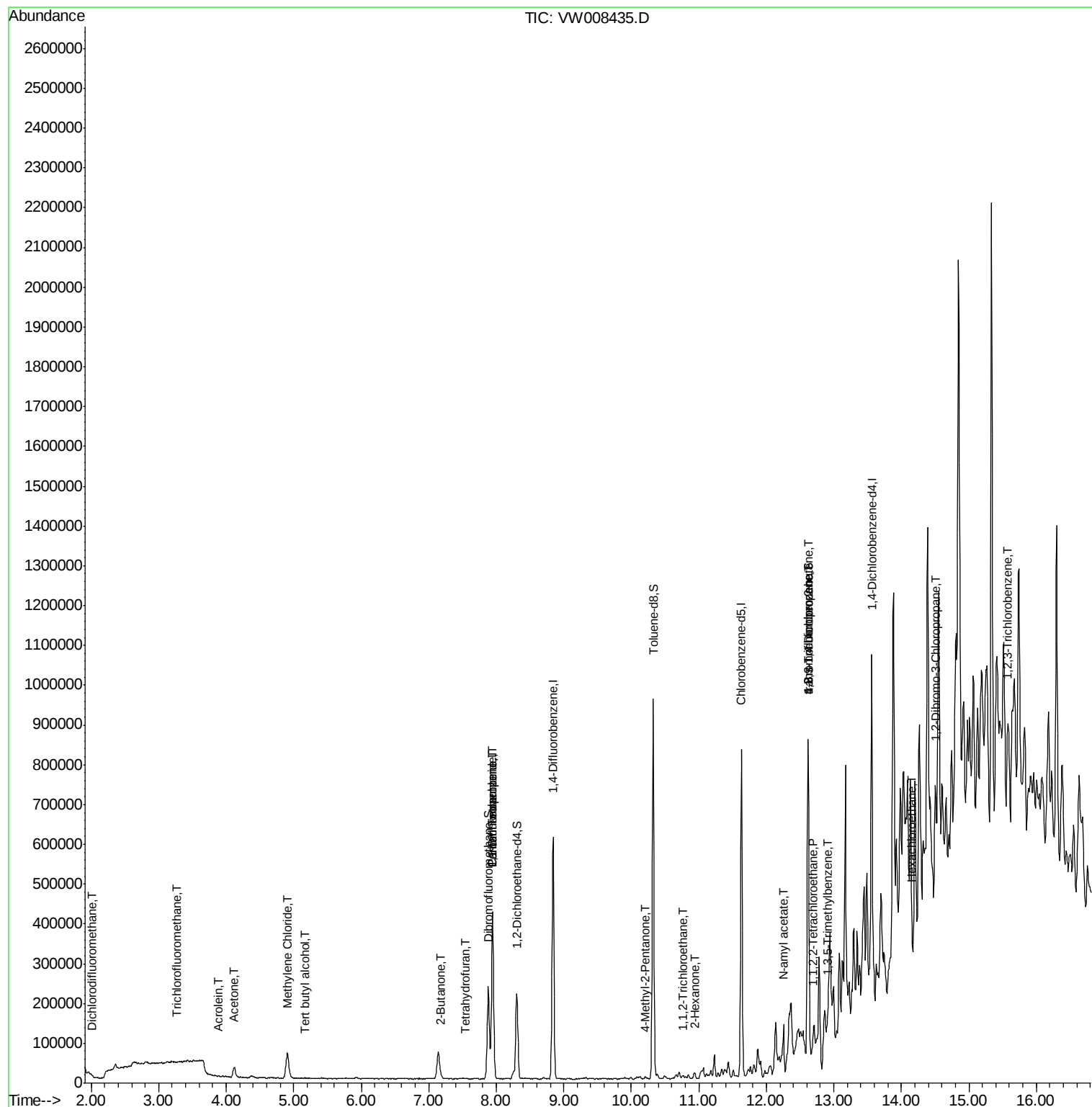
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	333486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	525552	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	465167	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	229579	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	165566	50.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.08%	
35) Dibromofluoromethane	7.88	113	160676	52.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.56%	
50) Toluene-d8	10.32	98	625586	50.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.52%	
62) 4-Bromofluorobenzene	12.62	95	229066	48.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	246	3.372	ug/l	93
7) Trichlorofluoromethane	3.27	101	668	4.925	ug/l #	38
11) Tert butyl alcohol	5.17	59	555	2.104	ug/l #	28
13) Acrolein	3.88	56	368	5.740	ug/l #	78
16) Acetone	4.12	43	43634	59.308	ug/l	92
20) Methylene Chloride	4.90	84	46041	13.578	ug/l	93
25) 2-Butanone	7.18	43	10798	10.567	ug/l	99
29) Tetrahydrofuran	7.54	42	1252	1.933	ug/l #	59
36) 1,1-Dichloropropene	7.94	75	23382	4.710	ug/l #	53
38) Carbon Tetrachloride	7.95	117	31627	6.331	ug/l #	17
51) 4-Methyl-2-Pentanone	10.21	43	2868	1.272	ug/l	98
55) 1,1,2-Trichloroethane	10.76	97	2823	1.152	ug/l #	26
59) 2-Hexanone	10.93	43	6312	3.966	ug/l #	39
74) N-amyl acetate	12.26	43	30608	6.942	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	12.69	83	5929	2.188	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	111970	56.096	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.90	105	16018	1.120	ug/l	65
81) trans-1,4-Dichloro-2-buten	12.62	75	111970	110.795	ug/l #	14
90) Hexachloroethane	14.16	117	10484	3.366	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.50	75	1154	2.245	ug/l #	24
96) 1,2,3-Trichlorobenzene	15.58	180	4600	1.138	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

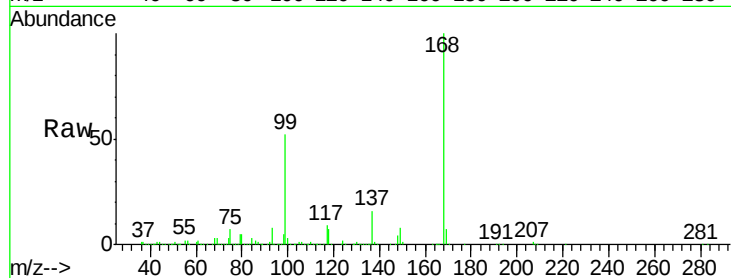
MH-C05

Tgt Ion: 168 Resp: 333486

Ion Ratio Lower Upper

168 100

99 51.9 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

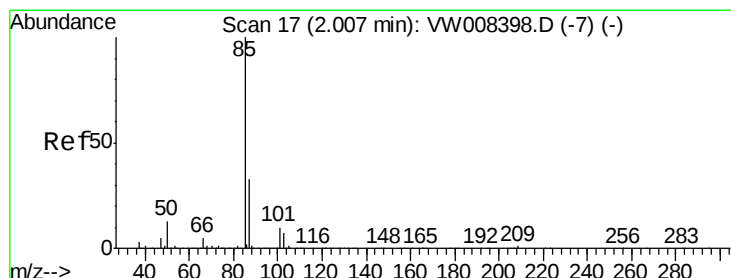
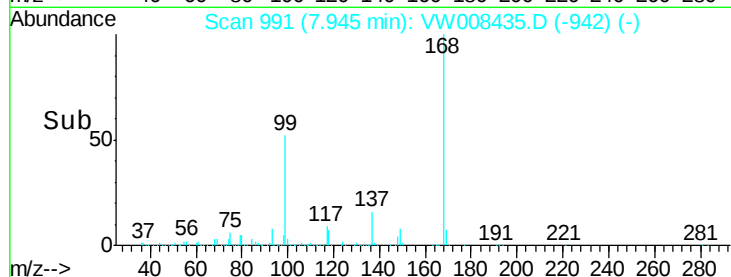
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 3.372 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW008435.D

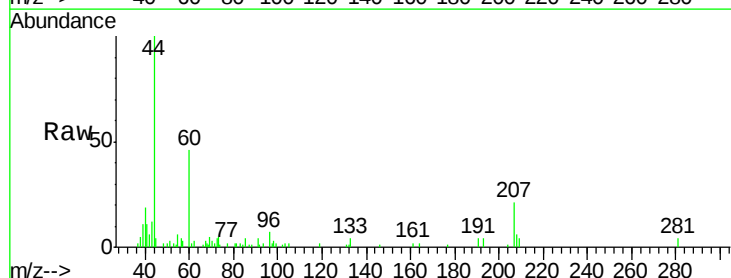
Acq: 28 Jan 2019 13:14

Tgt Ion: 85 Resp: 246

Ion Ratio Lower Upper

85 100

87 29.3 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

250

200

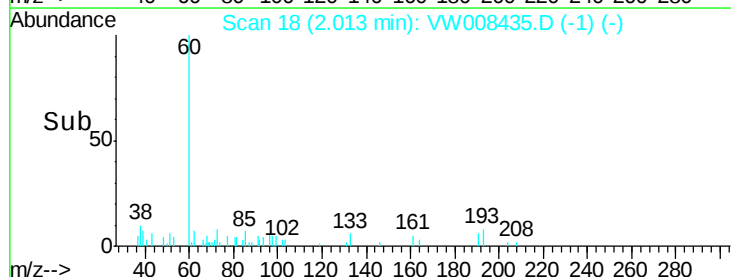
150

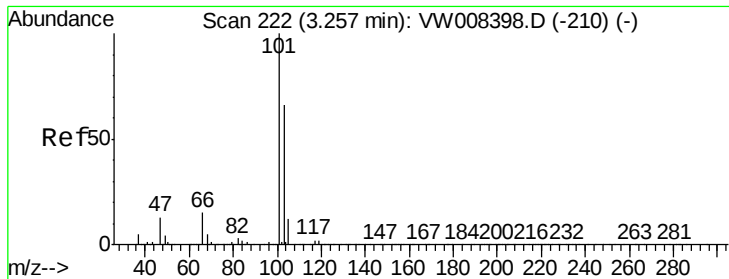
100

50

0

Time--> 1.98 2.00 2.02 2.04



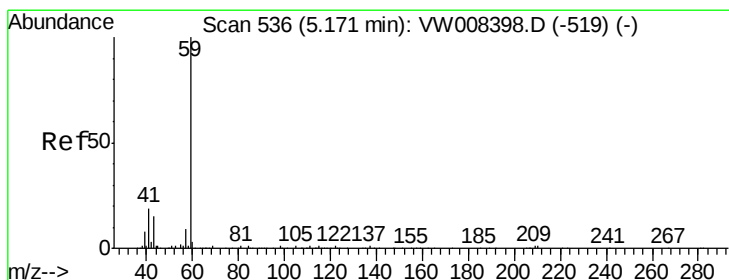
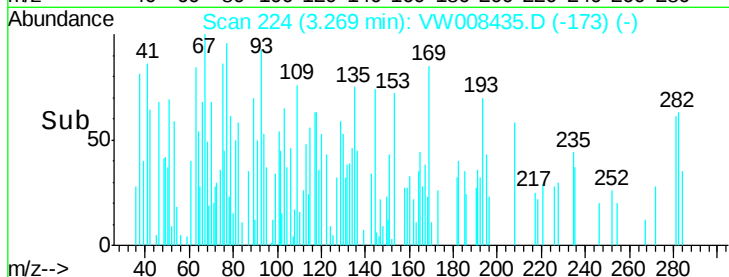
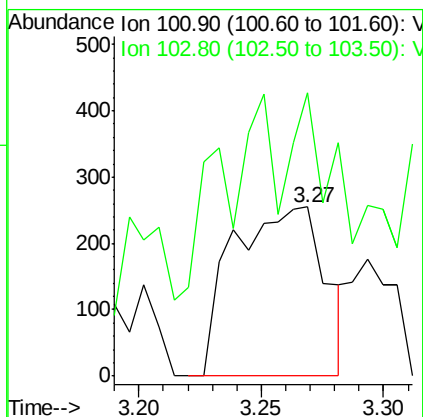
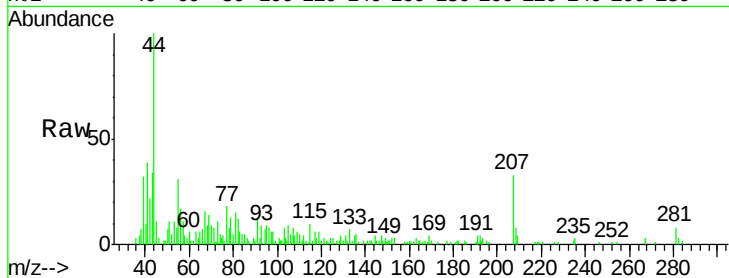


#7

Trichlorofluoromethane
Concen: 4.925 ug/l
RT: 3.27 min Scan# 224
Delta R.T. 0.01 min
Lab File: VW008435.D
Acq: 28 Jan 2019 13:14

Instrument :
MSVOA_W
ClientSampled :
MH-C05

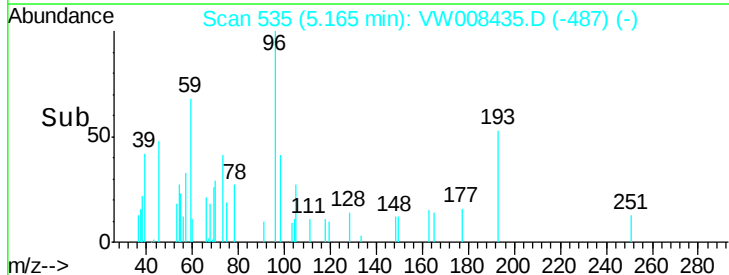
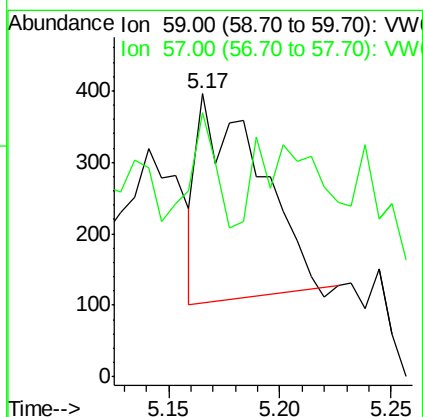
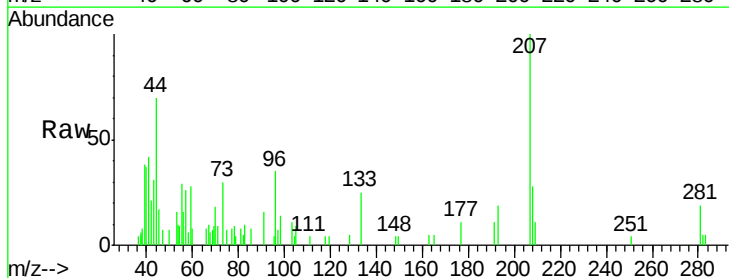
Tgt Ion: 101 Resp: 668
Ion Ratio Lower Upper
101 100
103 114.9 52.5 78.7#

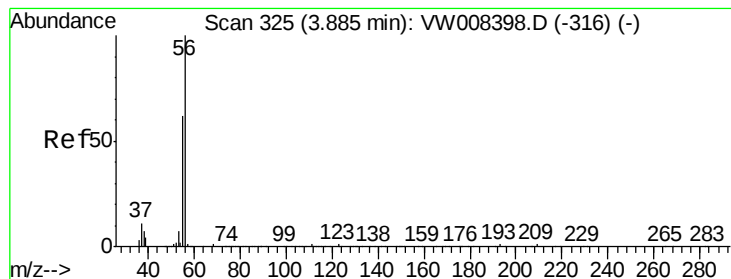


#11

Tert butyl alcohol
Concen: 2.104 ug/l
RT: 5.17 min Scan# 535
Delta R.T. -0.01 min
Lab File: VW008435.D
Acq: 28 Jan 2019 13:14

Tgt Ion: 59 Resp: 555
Ion Ratio Lower Upper
59 100
57 39.5 9.3 13.9#





#13

Acrolein

Concen: 5.740 ug/l

RT: 3.88 min Scan# 325

Delta R.T. -0.00 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampled :

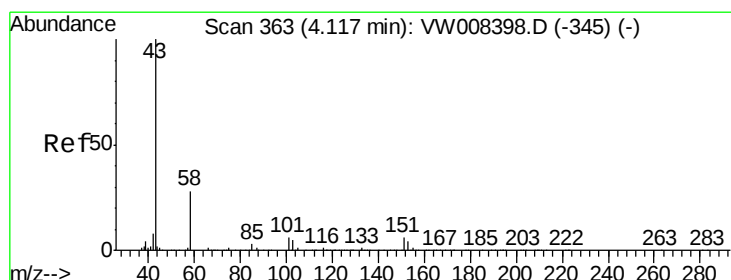
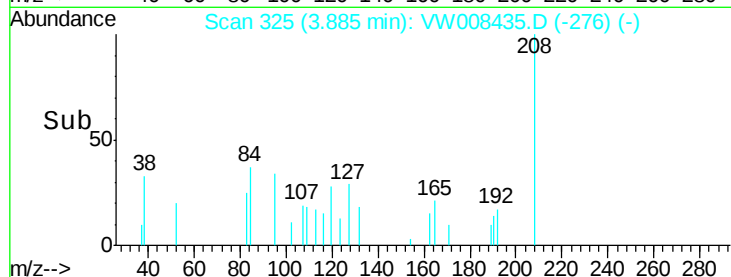
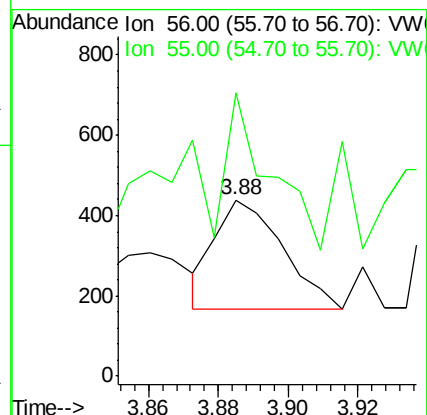
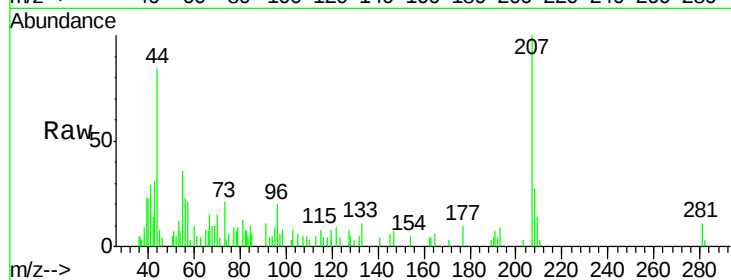
MH-C05

Tgt Ion: 56 Resp: 368

Ion Ratio Lower Upper

56 100

55 89.4 56.7 85.1#



#16

Acetone

Concen: 59.308 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW008435.D

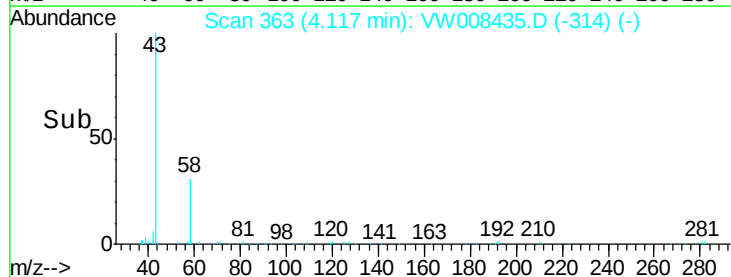
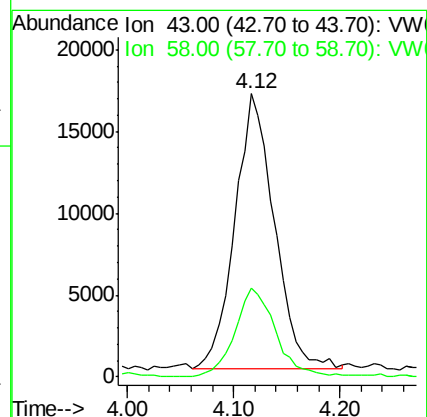
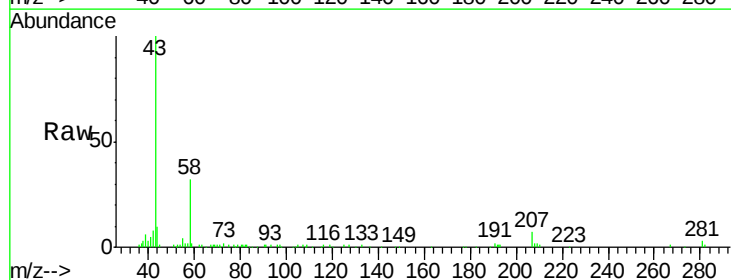
Acq: 28 Jan 2019 13:14

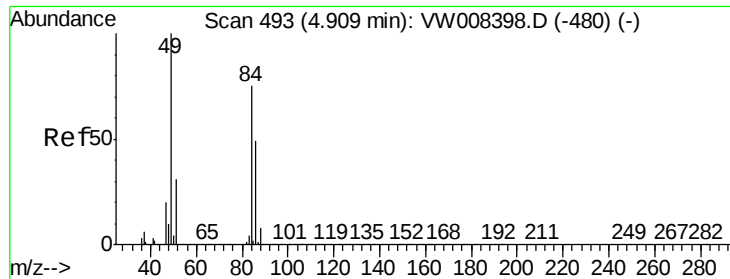
Tgt Ion: 43 Resp: 43634

Ion Ratio Lower Upper

43 100

58 32.5 22.6 34.0

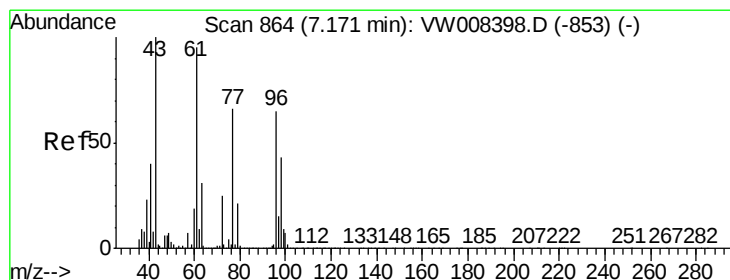
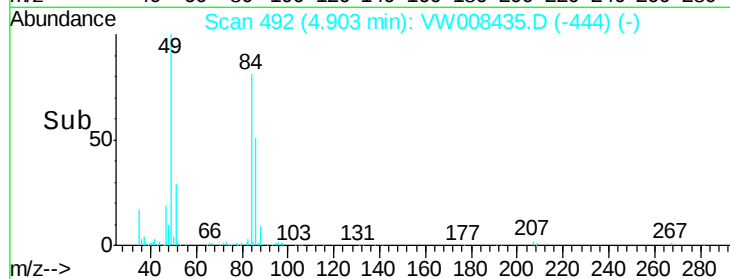
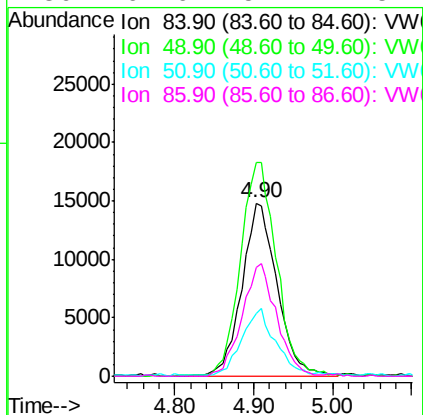
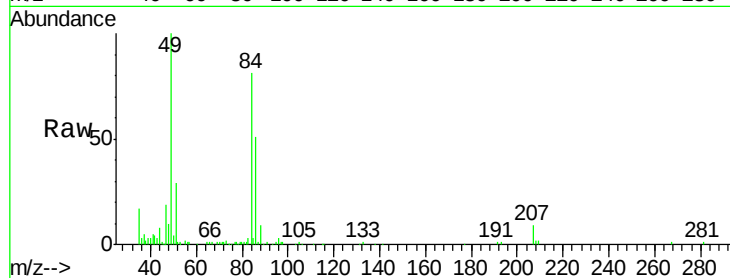




#20
Methylene Chloride
Concen: 13.578 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008435.D
Acq: 28 Jan 2019 13:14

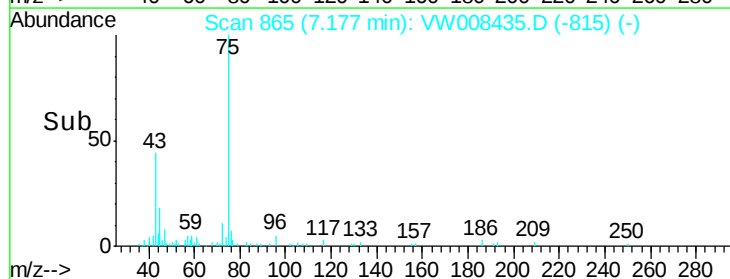
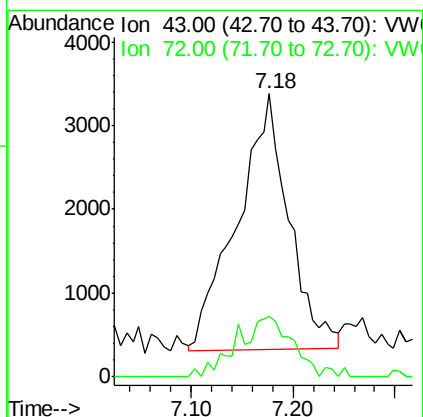
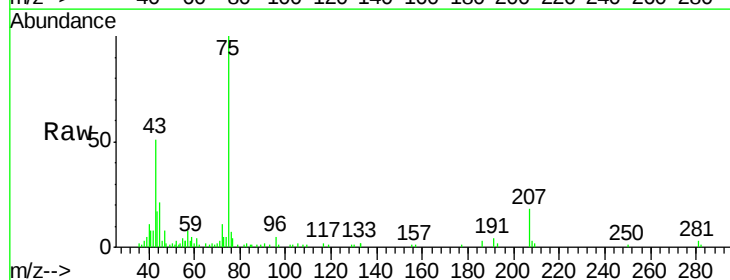
Instrument :
MSVOA_W
ClientSampleId :
MH-C05

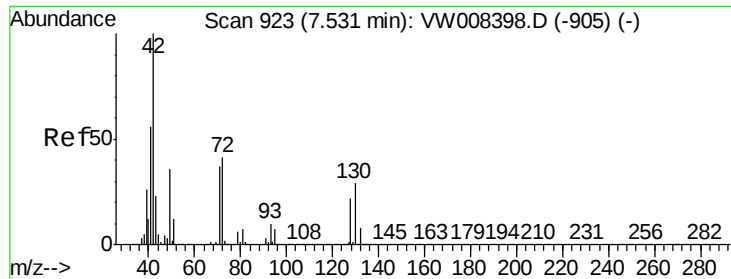
Tgt Ion:	84	Resp:	46041
Ion	Ratio	Lower	Upper
84	100		
49	123.1	106.8	160.2
51	35.4	32.9	49.3
86	62.6	52.2	78.2



#25
2-Butanone
Concen: 10.567 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW008435.D
Acq: 28 Jan 2019 13:14

Tgt Ion:	43	Resp:	10798
Ion	Ratio	Lower	Upper
43	100		
72	24.4	20.1	30.1





#29

Tetrahydrofuran

Concen: 1.933 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

MH-C05

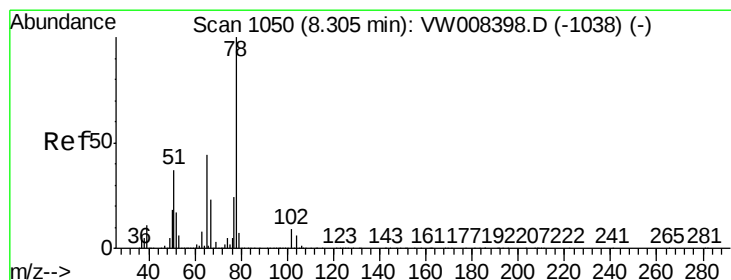
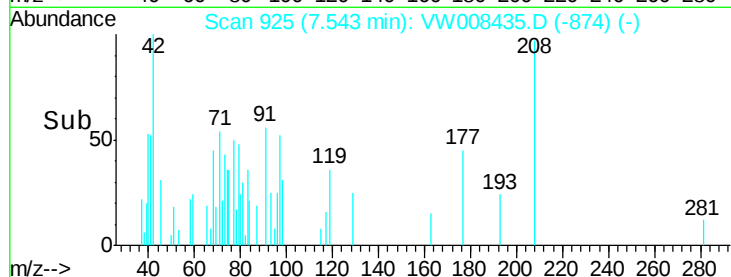
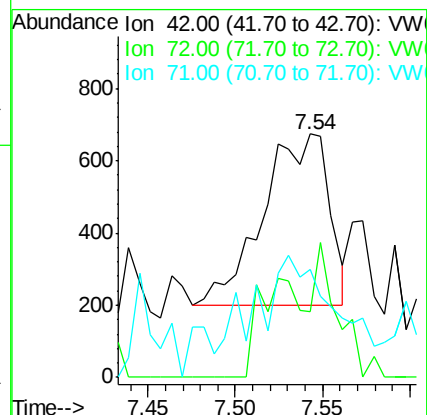
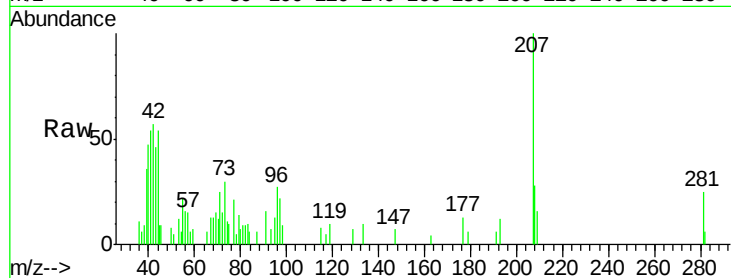
Tgt Ion: 42 Resp: 1252

Ion Ratio Lower Upper

42 100

72 27.3 31.9 47.9#

71 0.0 29.9 44.9#



#33

1,2-Dichloroethane-d4

Concen: 50.536 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008435.D

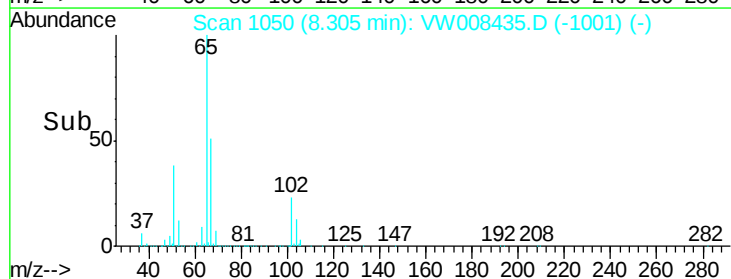
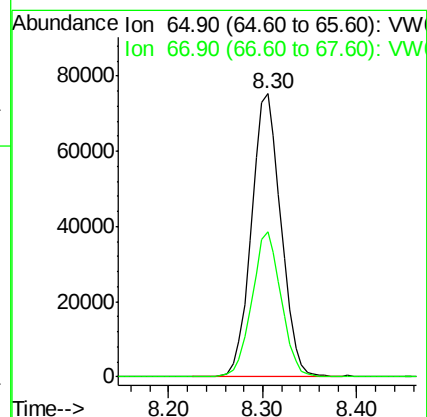
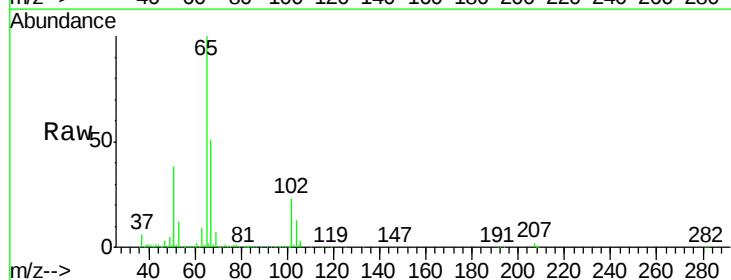
Acq: 28 Jan 2019 13:14

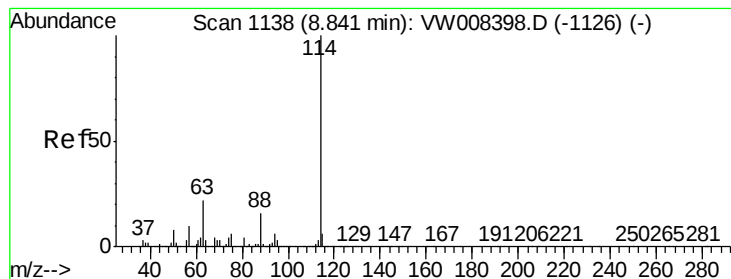
Tgt Ion: 65 Resp: 165566

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

MH-C05

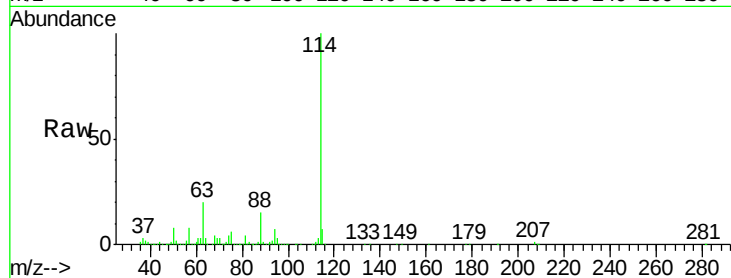
Tgt Ion:114 Resp: 525552

Ion Ratio Lower Upper

114 100

63 20.0 0.0 43.6

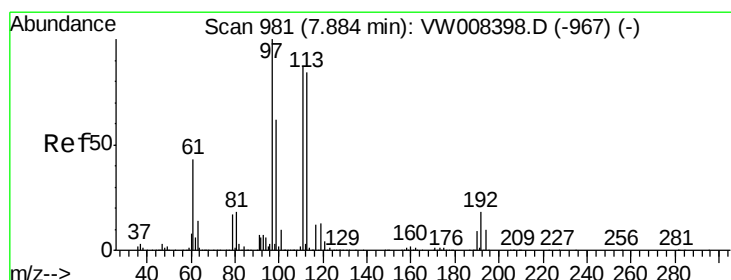
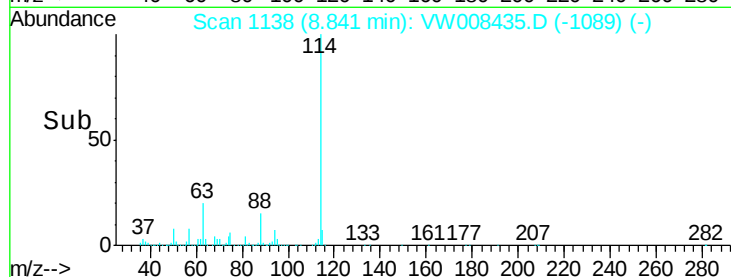
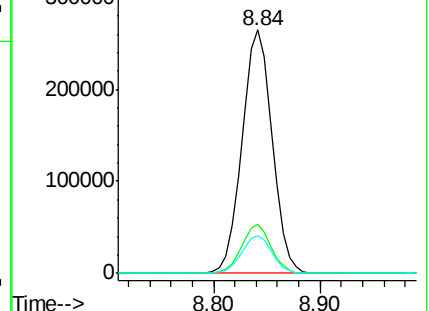
88 15.3 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 52.285 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

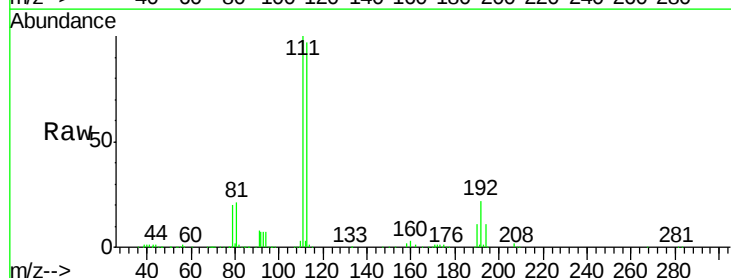
Tgt Ion:113 Resp: 160676

Ion Ratio Lower Upper

113 100

111 101.9 81.0 121.4

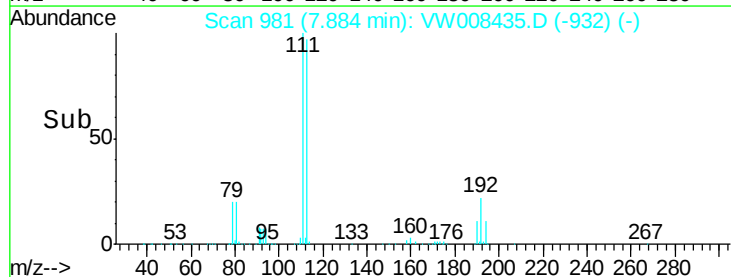
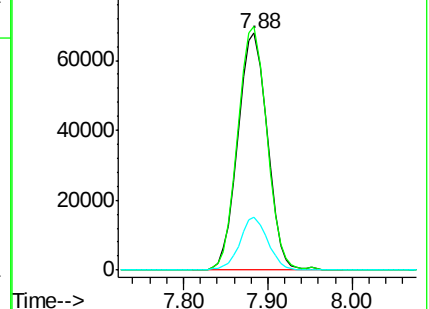
192 21.2 16.8 25.2

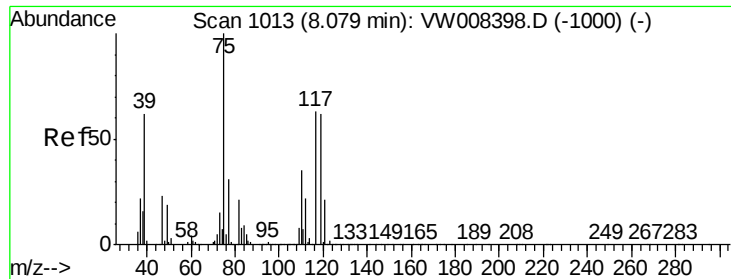


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.710 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

MH-C05

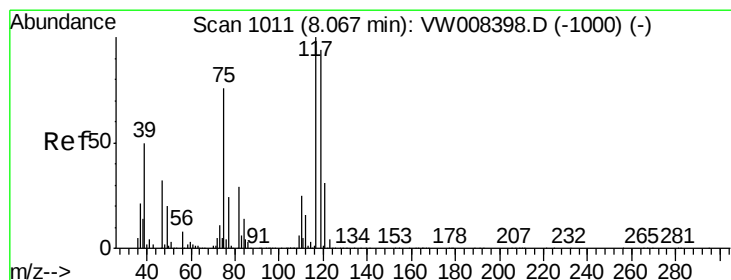
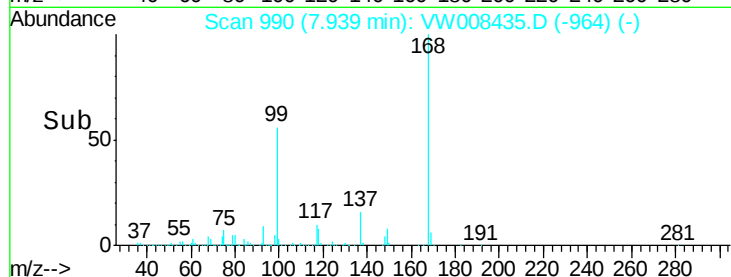
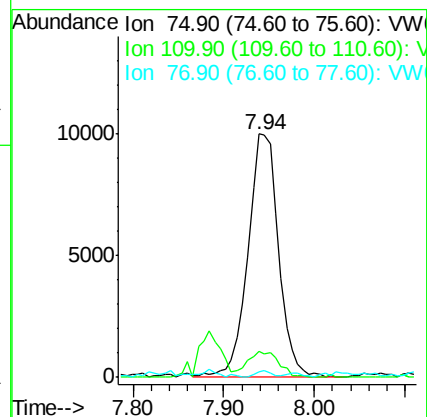
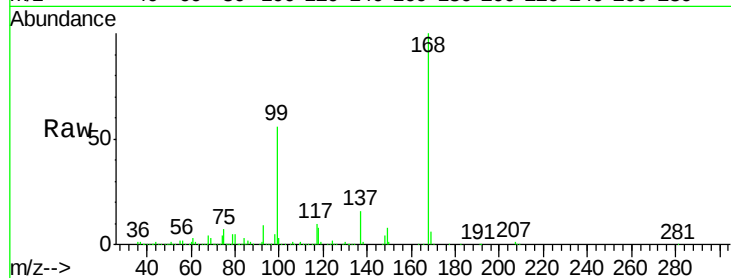
Tgt Ion: 75 Resp: 23382

Ion Ratio Lower Upper

75 100

110 10.7 17.3 52.0#

77 1.5 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.331 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

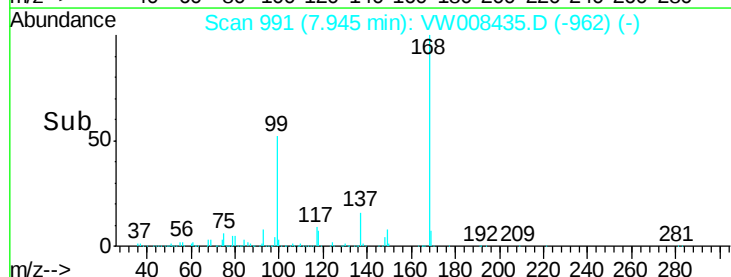
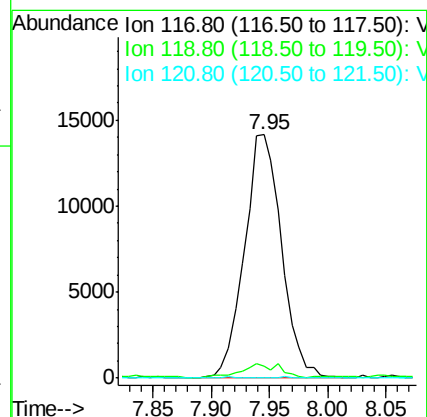
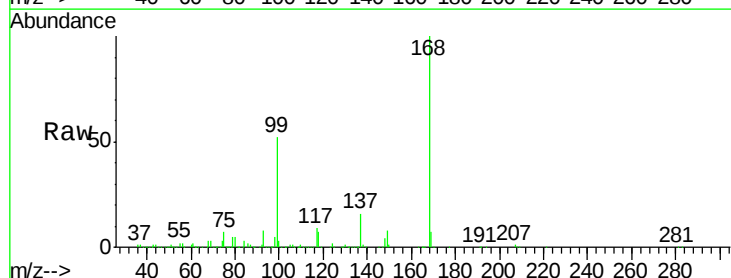
Tgt Ion: 117 Resp: 31627

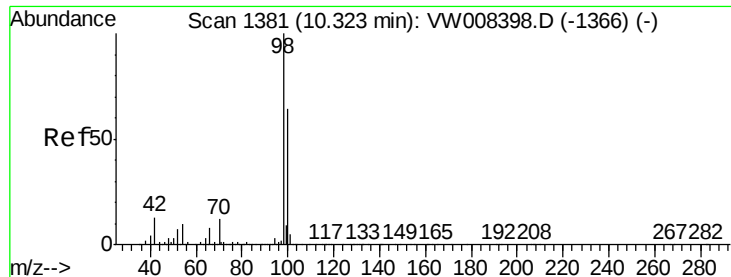
Ion Ratio Lower Upper

117 100

119 4.7 75.0 112.4#

121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 50.765 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

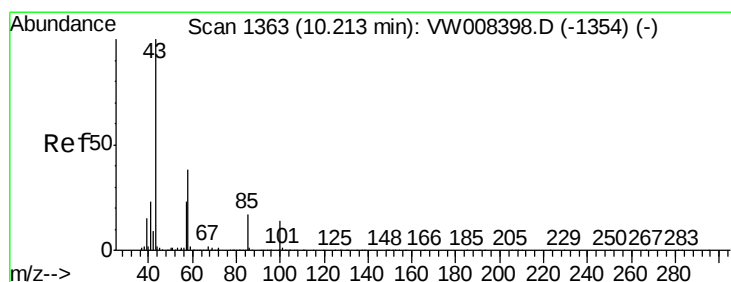
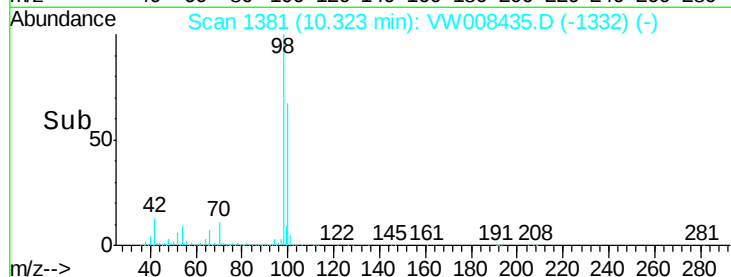
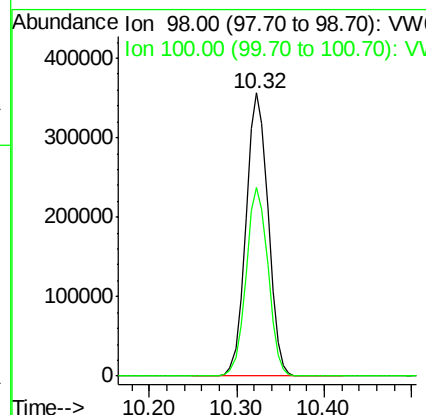
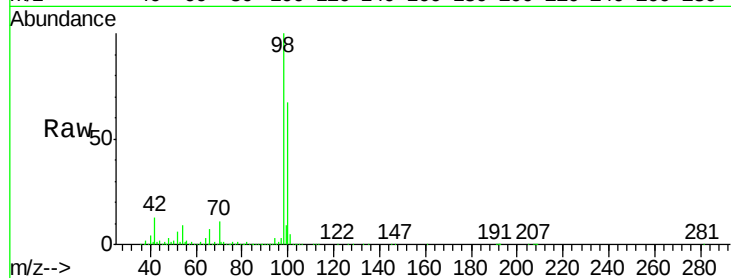
MH-C05

Tgt Ion: 98 Resp: 625586

Ion Ratio Lower Upper

98 100

100 65.9 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 1.272 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW008435.D

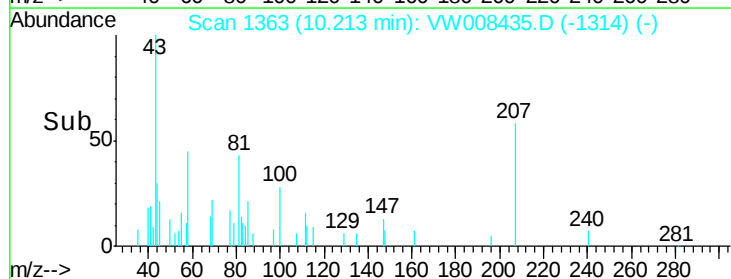
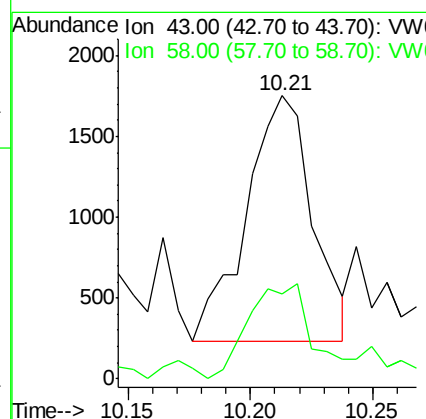
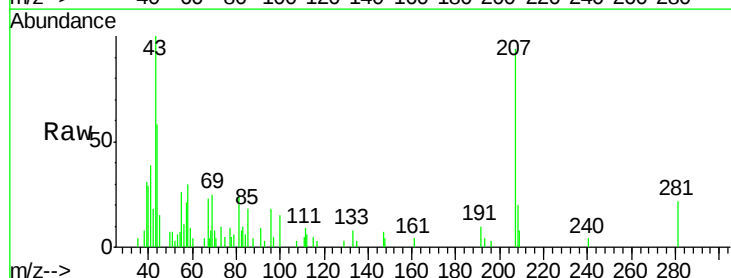
Acq: 28 Jan 2019 13:14

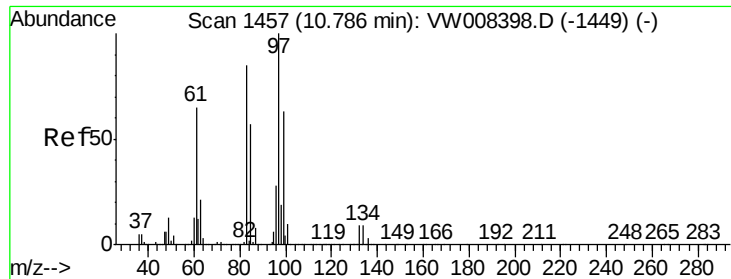
Tgt Ion: 43 Resp: 2868

Ion Ratio Lower Upper

43 100

58 38.2 29.7 44.5





#55

1,1,2-Trichloroethane

Concen: 1.152 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

MH-C05

Tgt Ion: 97 Resp: 2823

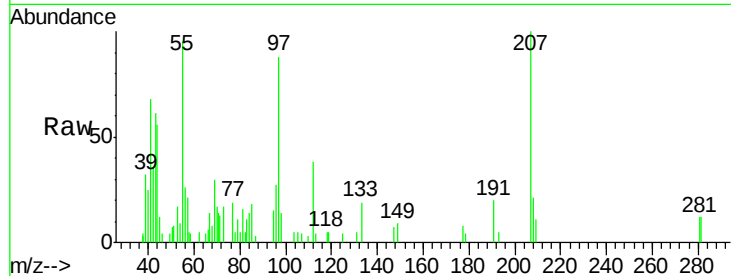
Ion Ratio Lower Upper

97 100

83 7.1 68.4 102.6#

85 22.2 45.3 67.9#

99 0.0 50.6 76.0#

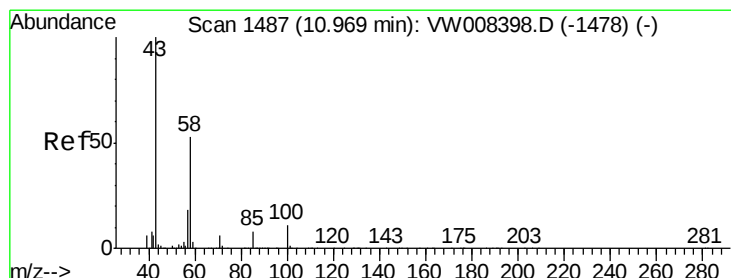
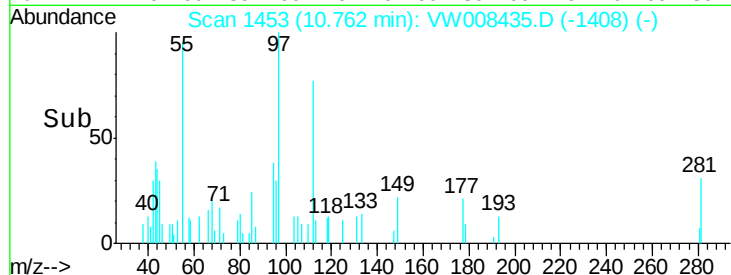
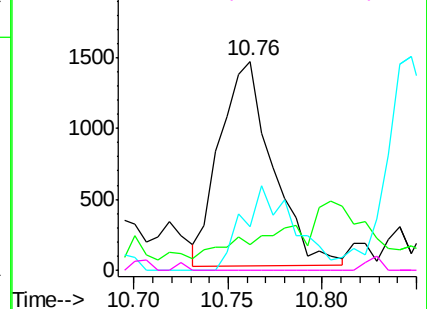


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#59

2-Hexanone

Concen: 3.966 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW008435.D

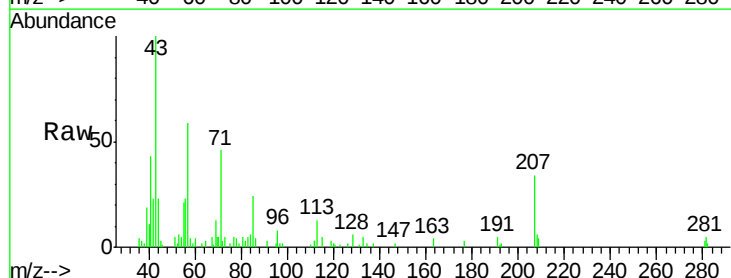
Acq: 28 Jan 2019 13:14

Tgt Ion: 43 Resp: 6312

Ion Ratio Lower Upper

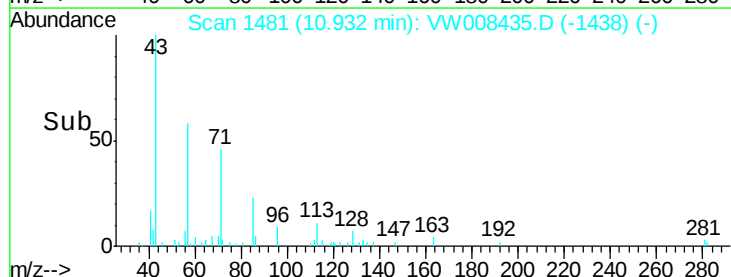
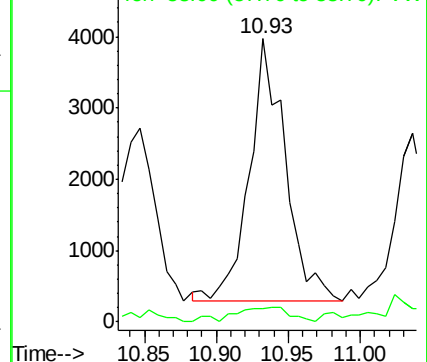
43 100

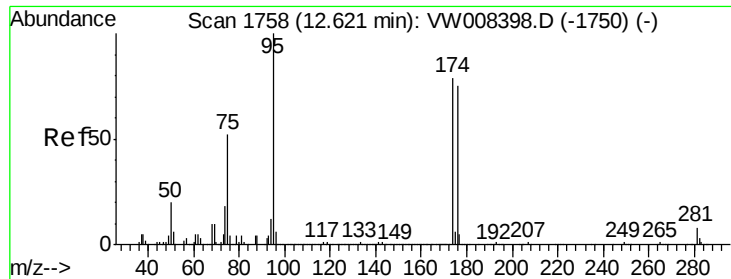
58 8.9 25.9 77.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

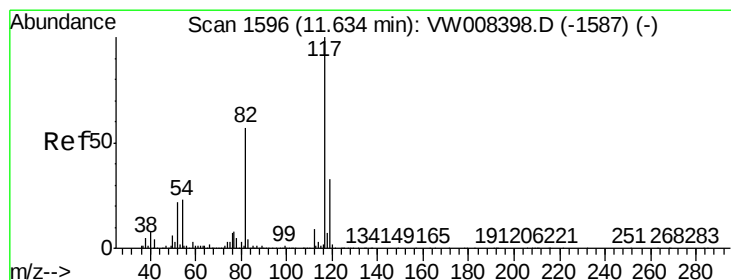
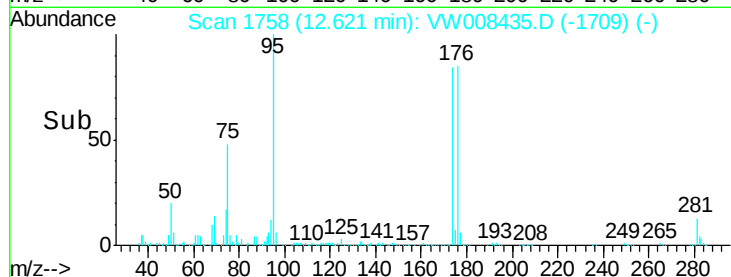
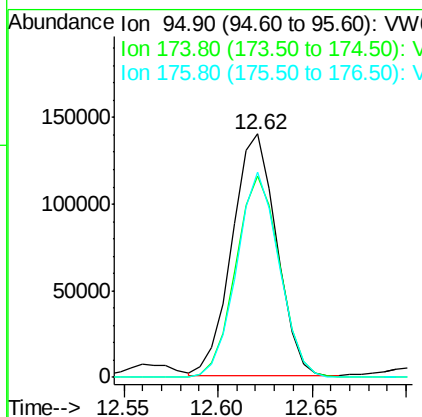
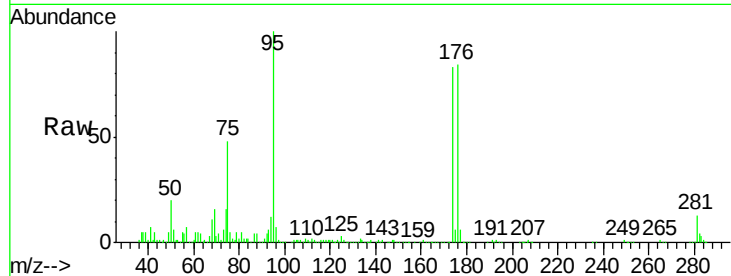




#62
4-Bromofluorobenzene
Concen: 48.358 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW008435.D
Acq: 28 Jan 2019 13:14

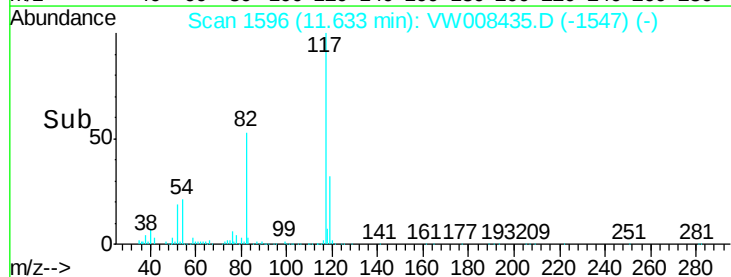
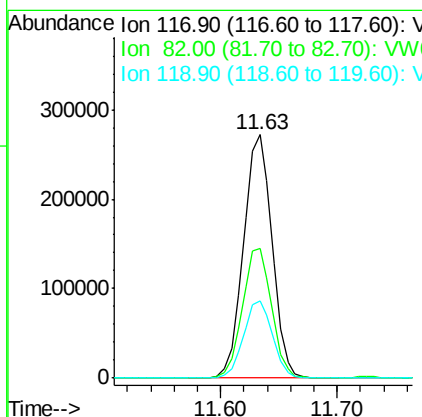
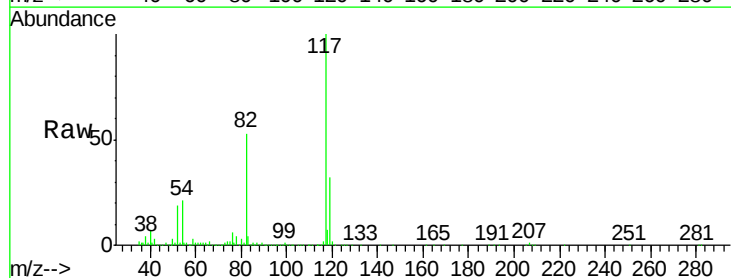
Instrument :
MSVOA_W
ClientSampleId :
MH-C05

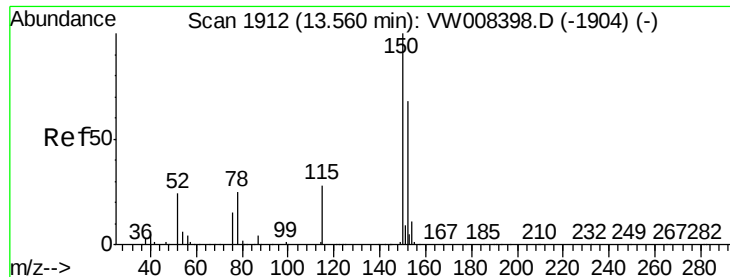
Tgt Ion: 95 Resp: 229066
Ion Ratio Lower Upper
95 100
174 82.5 0.0 157.6
176 80.8 0.0 151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008435.D
Acq: 28 Jan 2019 13:14

Tgt Ion: 117 Resp: 465167
Ion Ratio Lower Upper
117 100
82 53.0 45.4 68.0
119 31.8 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

MH-C05

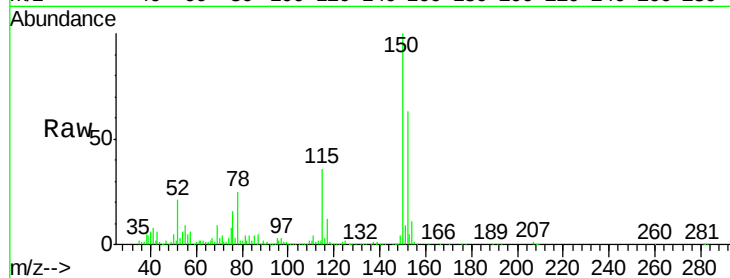
Tgt Ion:152 Resp: 229579

Ion Ratio Lower Upper

152 100

115 55.1 29.9 89.7

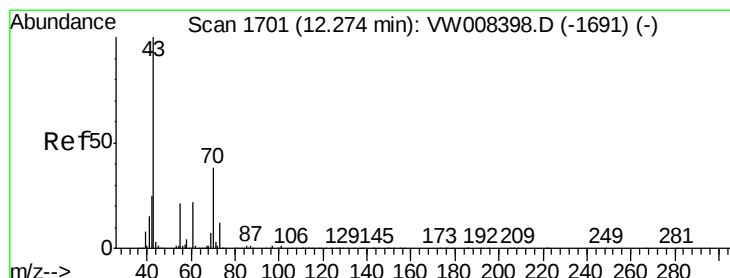
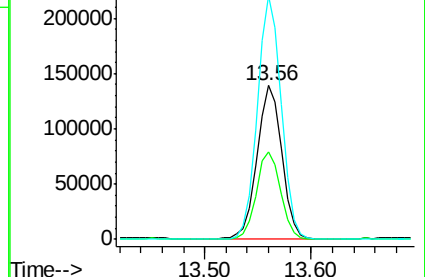
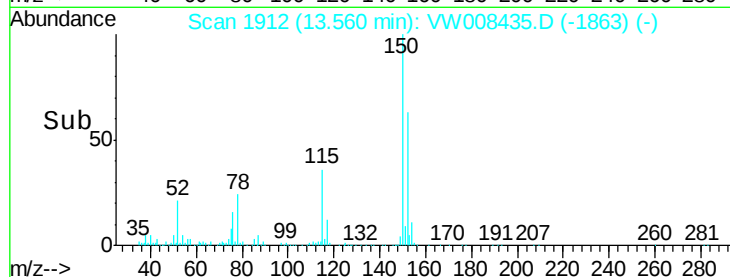
150 151.4 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 6.942 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Tgt Ion: 43 Resp: 30608

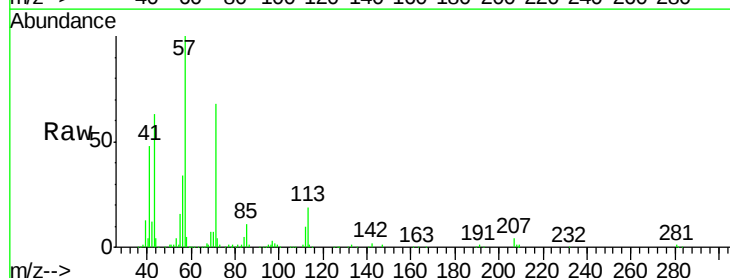
Ion Ratio Lower Upper

43 100

70 16.5 31.0 46.6#

55 0.0 17.4 26.2#

61 0.3 18.2 27.4#

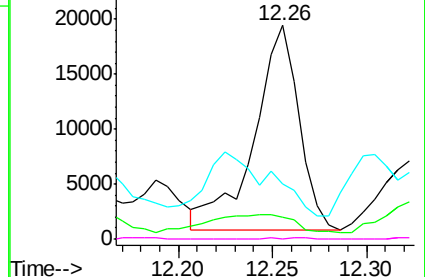
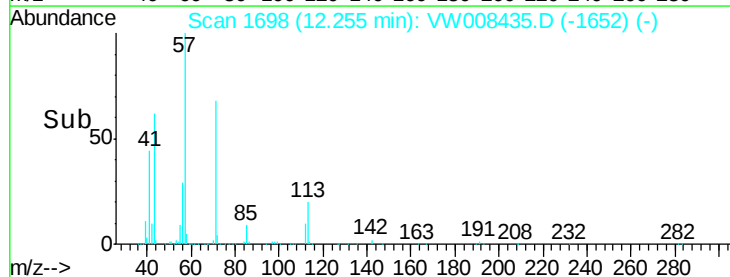


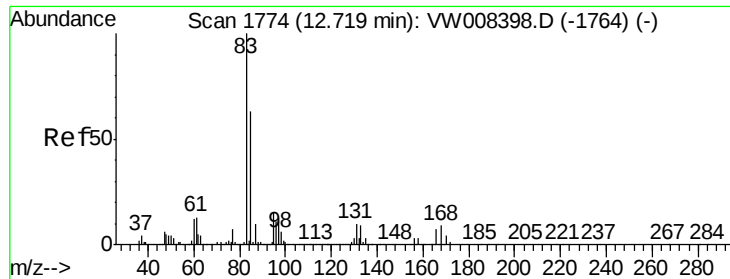
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 2.188 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.03 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

MH-C05

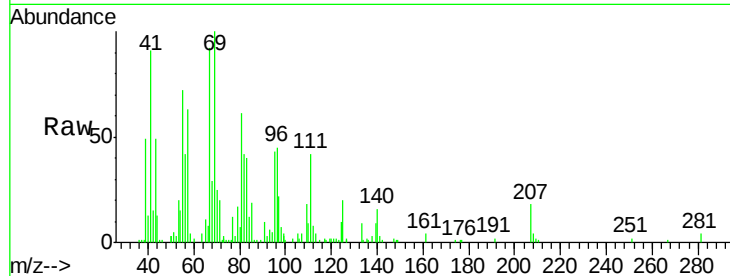
Tgt Ion: 83 Resp: 5929

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

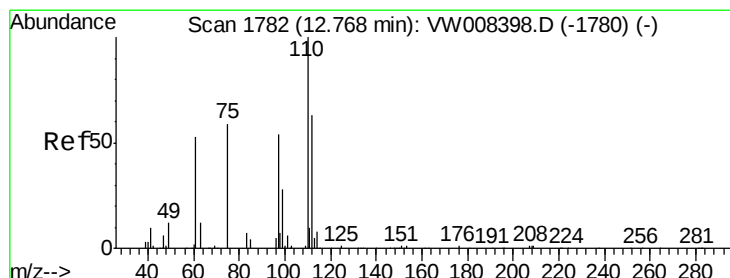
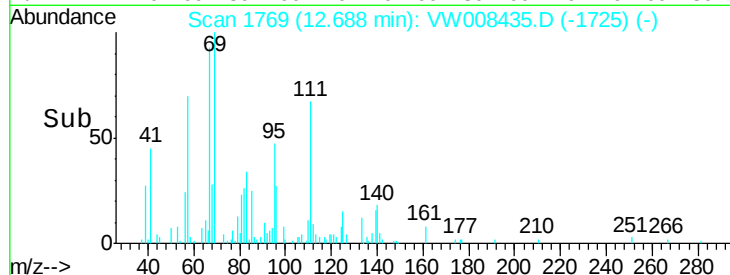
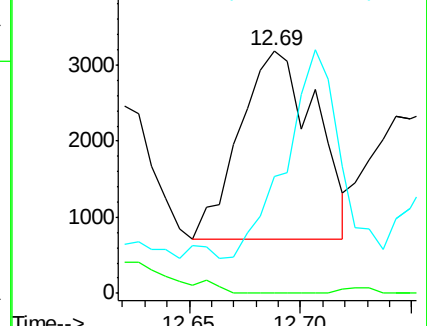
85 0.0 31.9 95.5#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 56.096 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008435.D

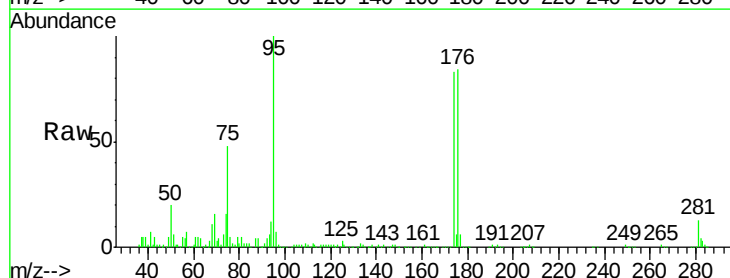
Acq: 28 Jan 2019 13:14

Tgt Ion: 75 Resp: 111970

Ion Ratio Lower Upper

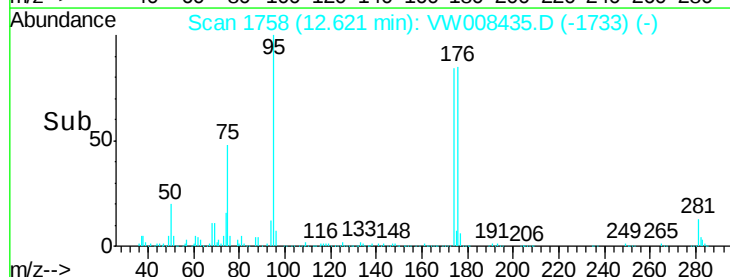
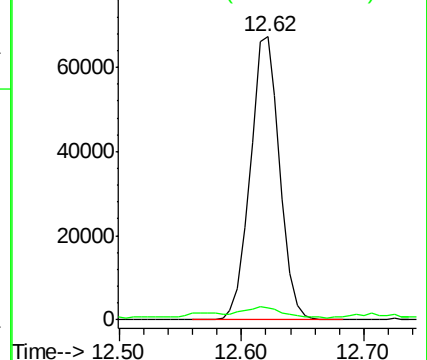
75 100

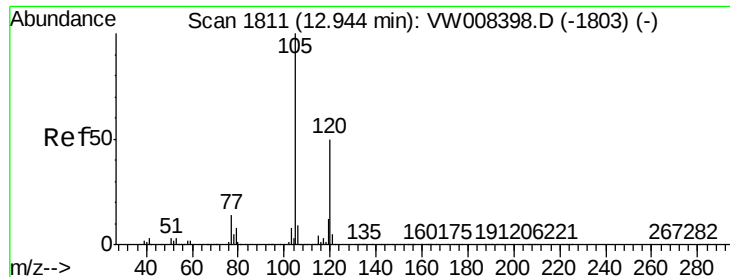
77 5.2 180.7 542.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#80

1,3,5-Trimethylbenzene

Concen: 1.120 ug/l

RT: 12.90 min Scan# 1804

Delta R.T. -0.04 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

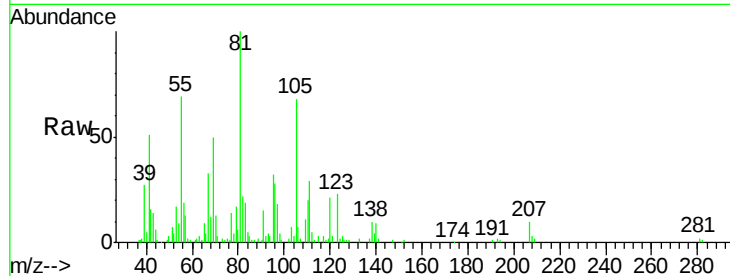
MH-C05

Tgt Ion: 105 Resp: 16018

Ion Ratio Lower Upper

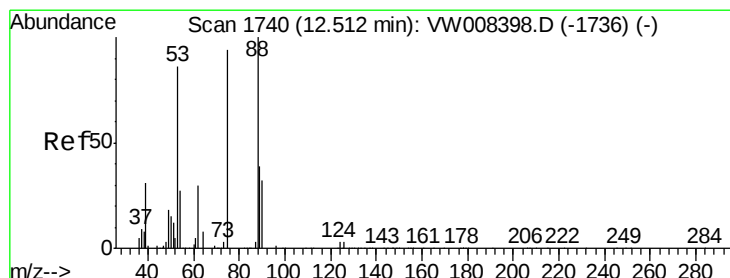
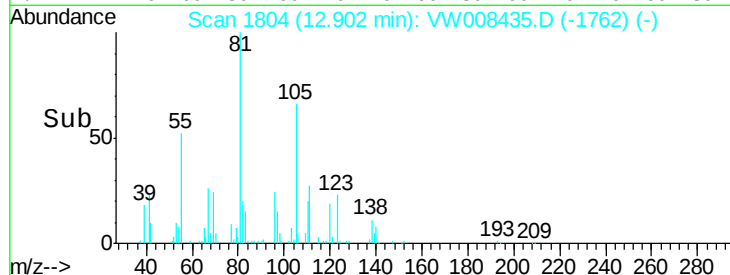
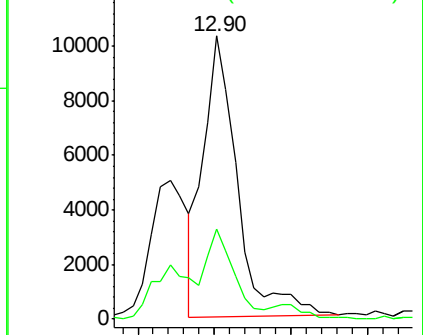
105 100

120 25.6 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 110.795 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

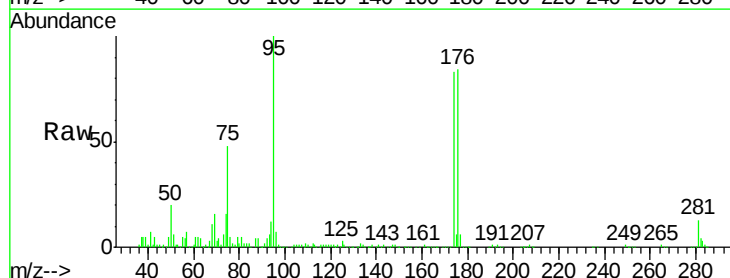
Tgt Ion: 75 Resp: 111970

Ion Ratio Lower Upper

75 100

53 3.1 76.0 114.0#

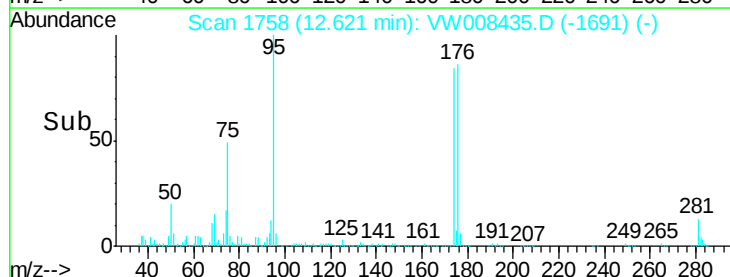
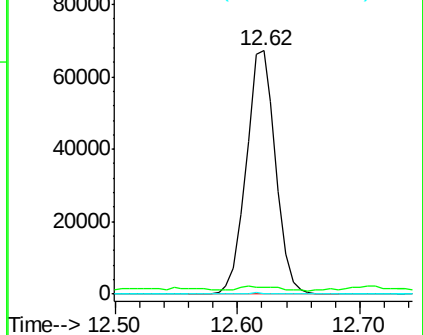
89 0.5 35.4 53.0#

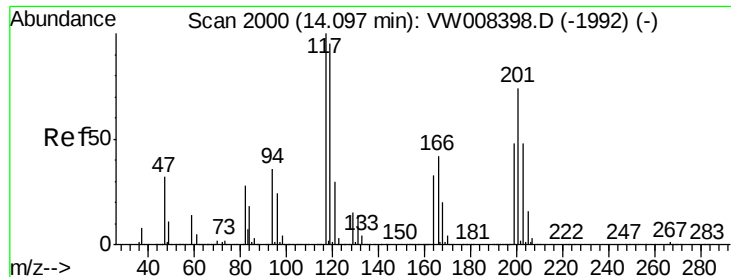


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#90

Hexachloroethane

Concen: 3.366 ug/l

RT: 14.16 min Scan# 2011

Delta R.T. 0.07 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

Instrument :

MSVOA_W

ClientSampleId :

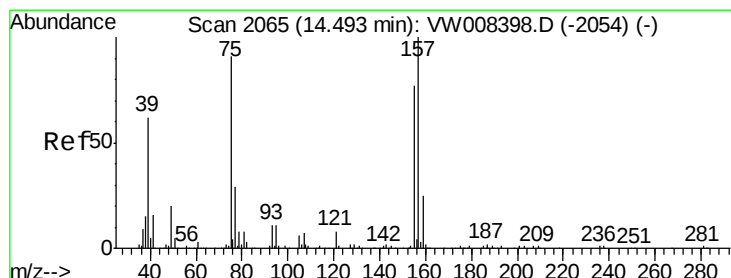
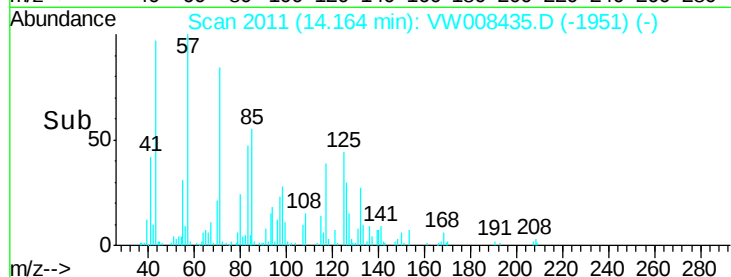
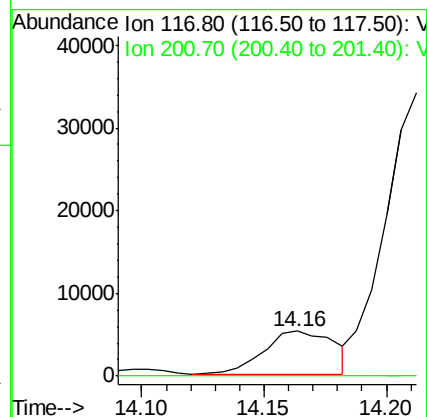
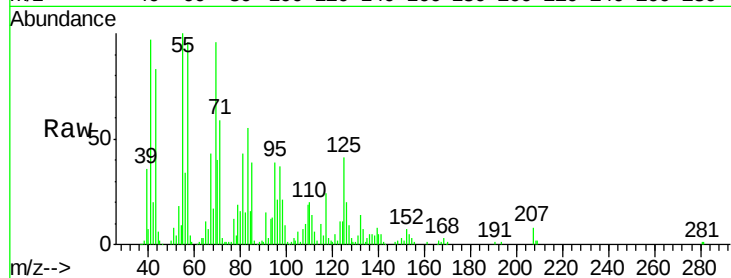
MH-C05

Tgt Ion: 117 Resp: 10484

Ion Ratio Lower Upper

117 100

201 0.0 39.1 117.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.245 ug/l

RT: 14.50 min Scan# 2066

Delta R.T. 0.01 min

Lab File: VW008435.D

Acq: 28 Jan 2019 13:14

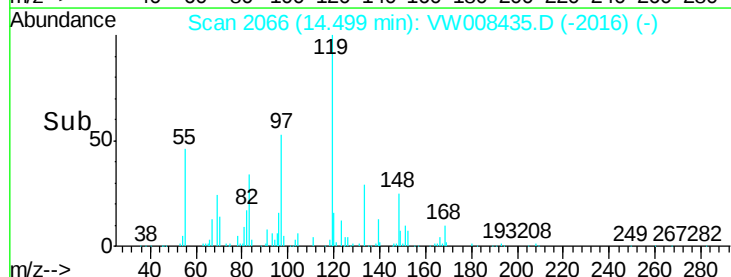
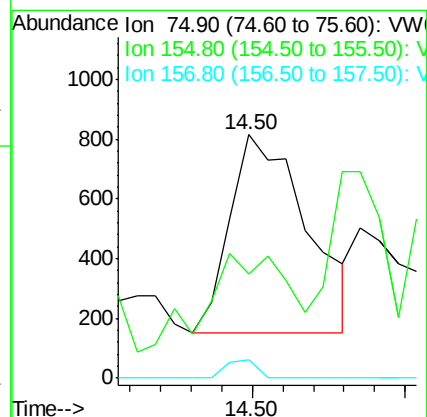
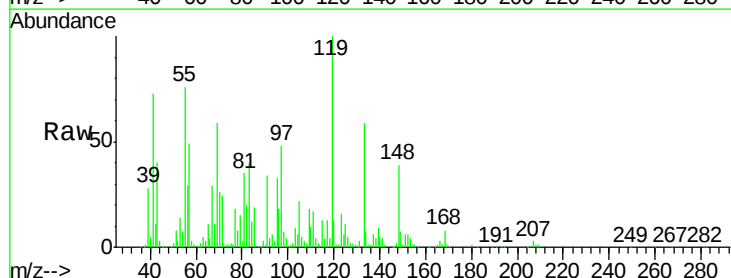
Tgt Ion: 75 Resp: 1154

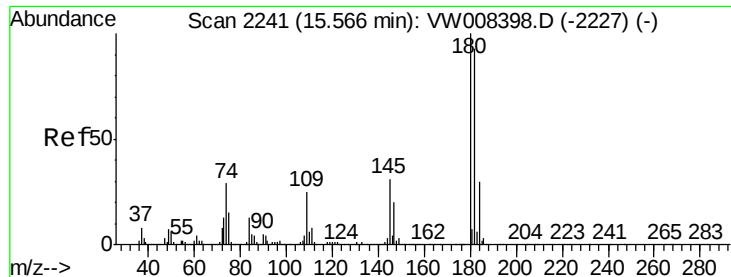
Ion Ratio Lower Upper

75 100

155 45.8 42.7 128.1

157 3.7 55.5 166.3#

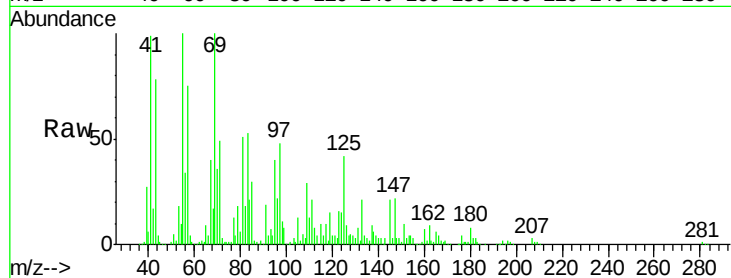




#96
 1,2,3-Trichlorobenzene
 Concen: 1.138 ug/l
 RT: 15.58 min Scan# 2244
 Delta R.T. 0.02 min
 Lab File: VW008435.D
 Acq: 28 Jan 2019 13:14

Instrument :
 MSVOA_W
 ClientSampleId :
 MH-C05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.0	141.2#
145	0.0	15.9	47.6#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

