

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW033119\
 Data File : VW009618.D
 Acq On : 31 Mar 2019 18:36
 Operator : SY/VA
 Sample : K2138-15
 Misc : 5.69G/5.0ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 01 04:56:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W032919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 29 13:24:53 2019
 Response via : Initial Calibration

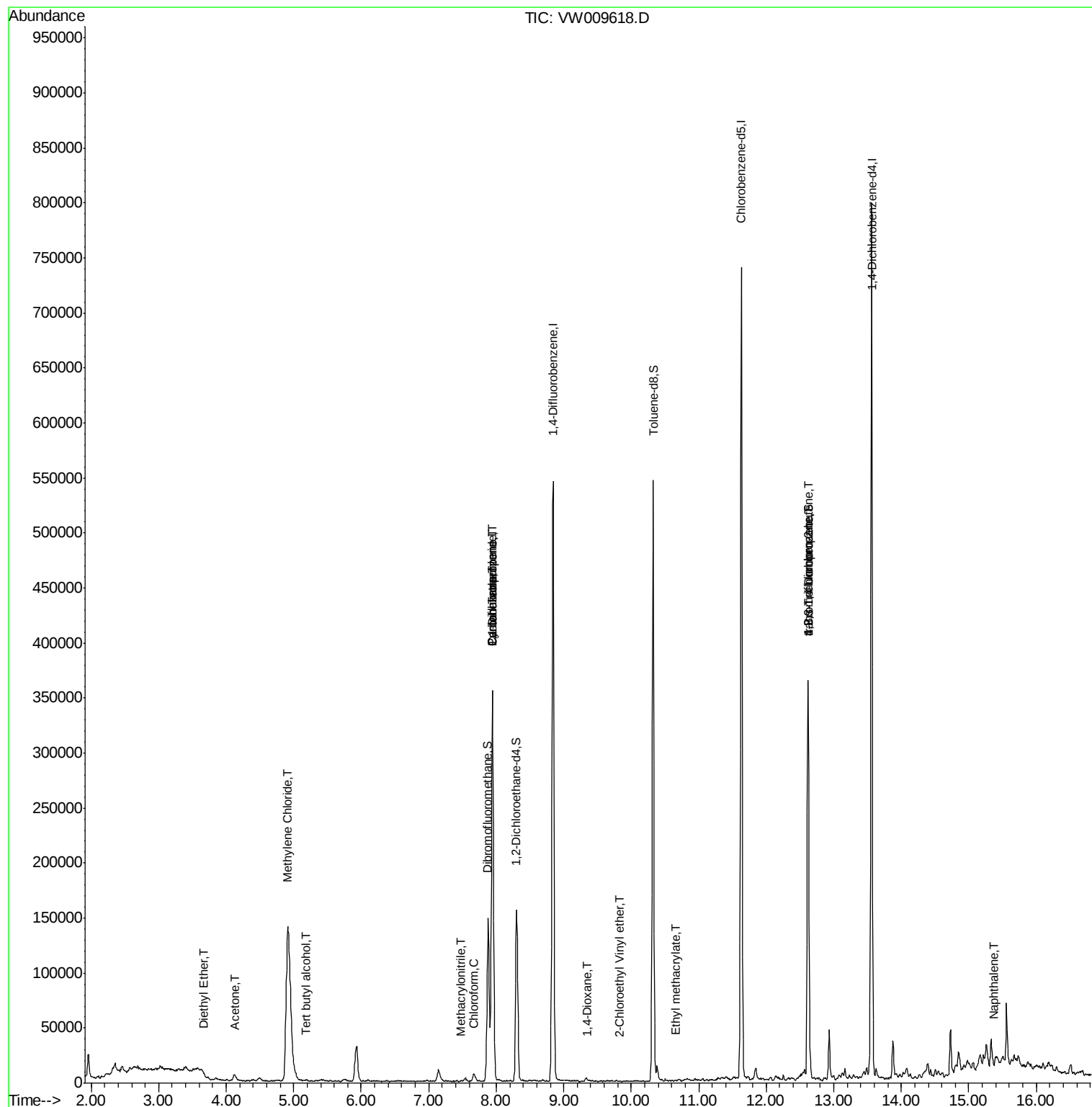
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	251640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	425556	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	385402	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	186179	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	119640	41.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.16%	
35) Dibromofluoromethane	7.88	113	98690	36.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.84%	
50) Toluene-d8	10.32	98	333971	33.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.62%	
62) 4-Bromofluorobenzene	12.62	95	110323	29.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.86%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.00	85	107	Below Cal	#	41
8) Diethyl Ether	3.68	74	2308	1.777	ug/l	81
11) Tert butyl alcohol	5.18	59	1845	11.058	ug/l #	90
16) Acetone	4.12	43	9858	15.237	ug/l	94
20) Methylene Chloride	4.92	84	144336	57.443	ug/l	94
30) Chloroform	7.67	83	5285	1.011	ug/l	87
31) Cyclohexane	7.95	56	6905	1.459	ug/l #	16
36) 1,1-Dichloropropene	7.94	75	22079	5.016	ug/l #	52
38) Carbon Tetrachloride	7.94	117	26024	5.770	ug/l #	18
41) Methacrylonitrile	7.48	41	194	4.053	ug/l #	26
49) 1,4-Dioxane	9.35	88	75	3.046	ug/l #	1
56) Ethyl methacrylate	10.65	69	167	3.846	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.83	63	64	17.057	ug/l #	46
76) 1,2,3-Trichloropropane	12.62	75	63096	36.038	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	63096	83.806	ug/l #	7
95) Naphthalene	15.37	128	795	2.826	ug/l #	91

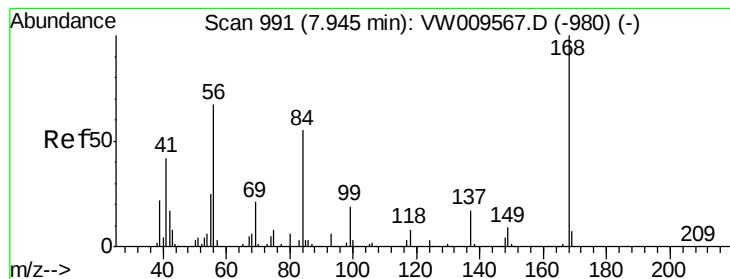
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 29 13:24:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Instrument :

MSVOA_W

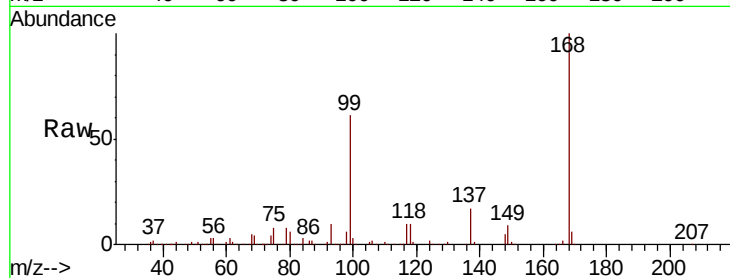
ClientSampleId :

Tot Ion:168 Resp: 251640

Ion Ratio Lower Upper

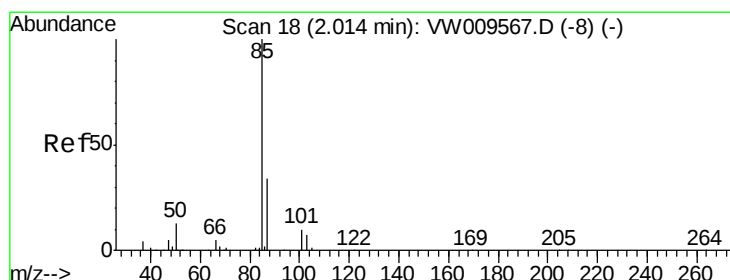
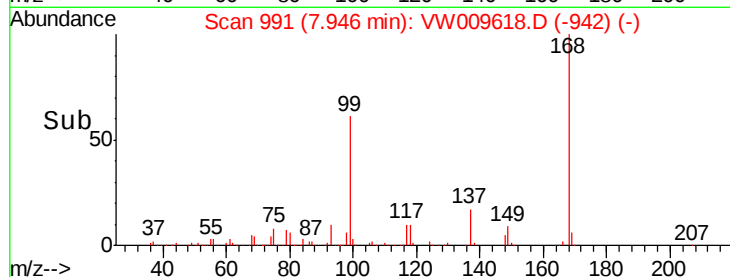
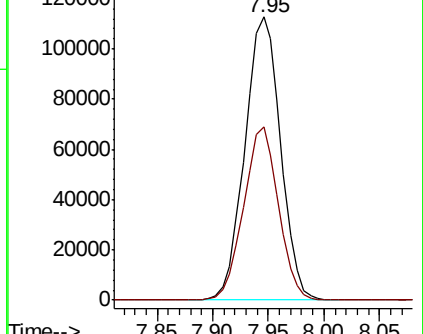
168 100

99 61.3 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 15

Delta R.T. -0.02 min

Lab File: VW009618.D

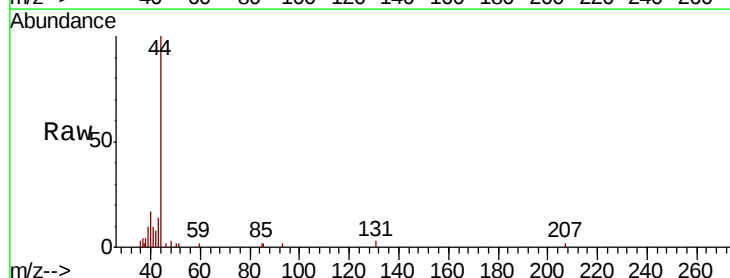
Acq: 31 Mar 2019 18:36

Tgt Ion: 85 Resp: 107

Ion Ratio Lower Upper

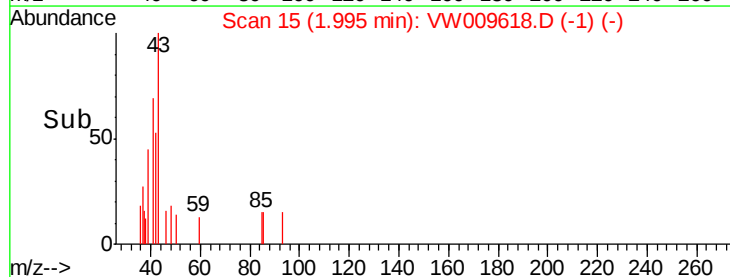
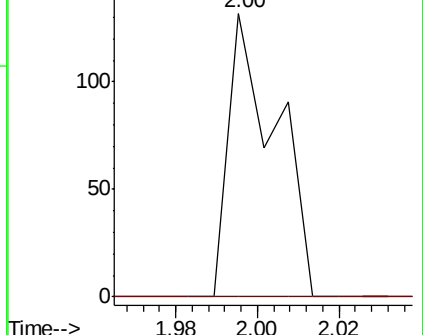
85 100

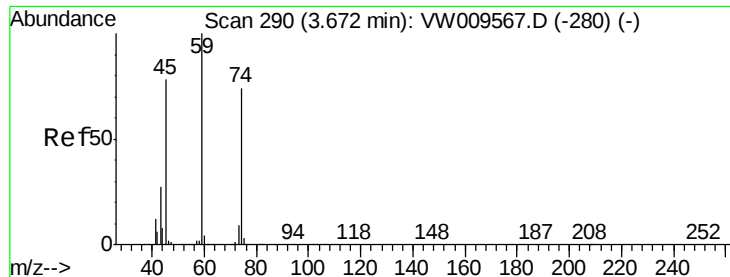
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#8

Diethyl Ether

Concen: 1.777 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.01 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Instrument :

MSVOA_W

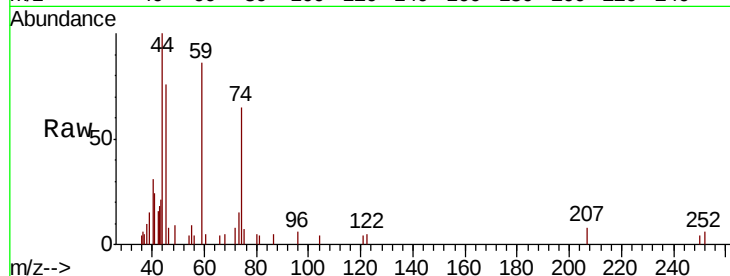
ClientSampled :

Tot Ion: 74 Resp: 2308

Ion Ratio Lower Upper

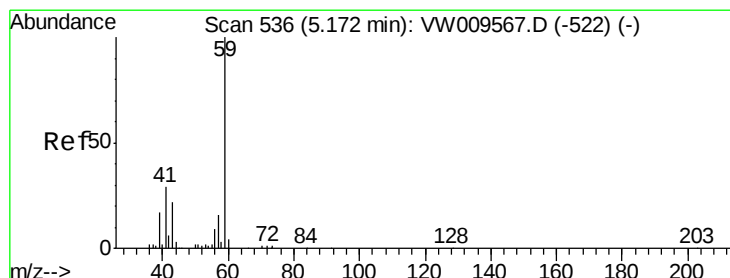
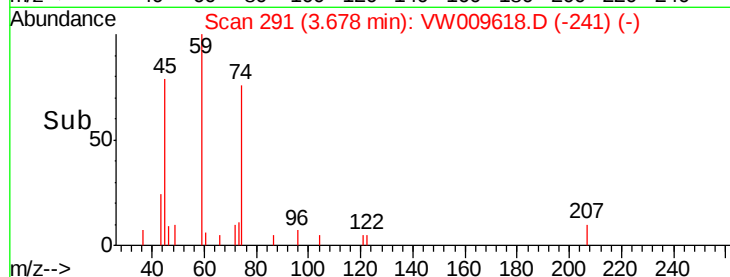
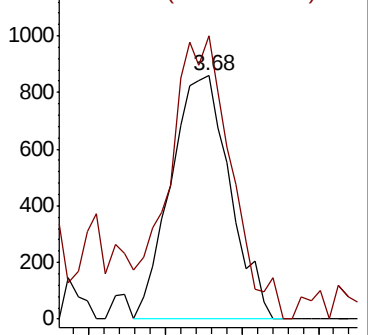
74 100

45 120.8 50.6 151.9



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



#11

Tert butyl alcohol

Concen: 11.058 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW009618.D

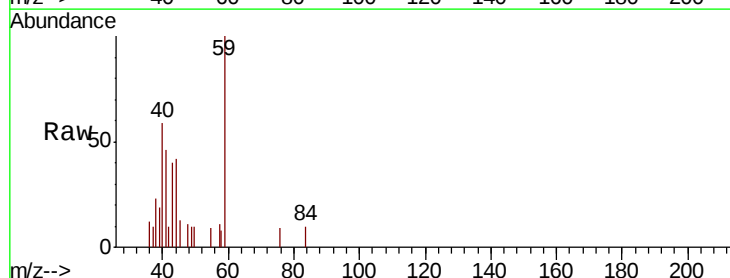
Acq: 31 Mar 2019 18:36

Tgt Ion: 59 Resp: 1845

Ion Ratio Lower Upper

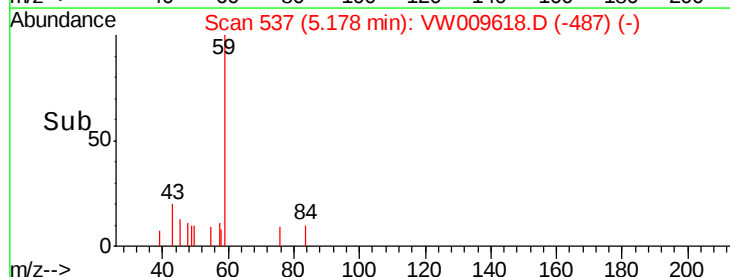
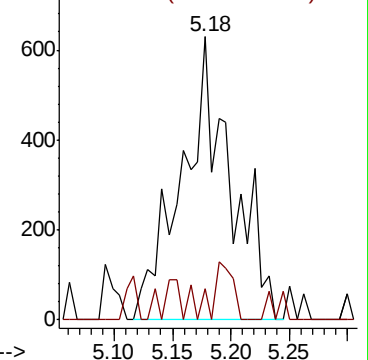
59 100

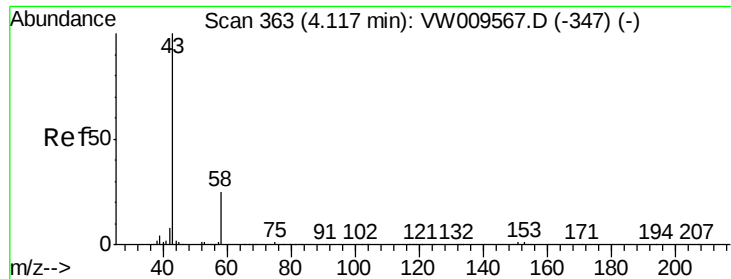
57 8.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 15.237 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Instrument :

MSVOA_W

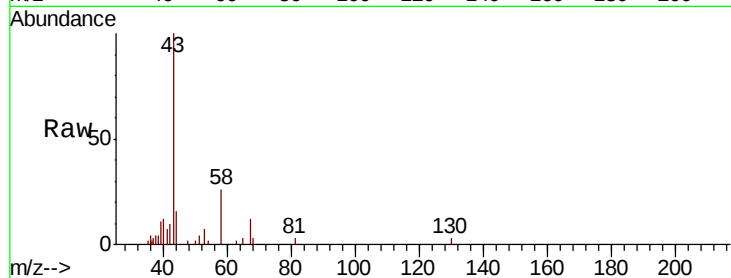
ClientSampleId :

Tot Ion: 43 Resp: 9858

Ion Ratio Lower Upper

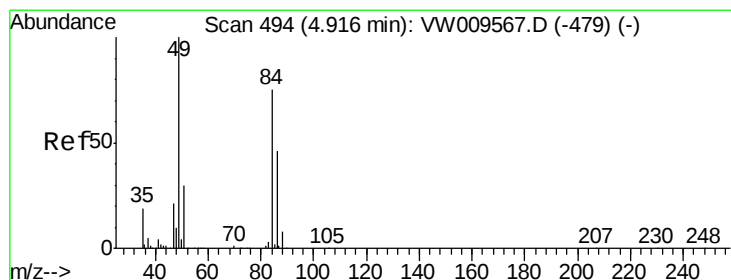
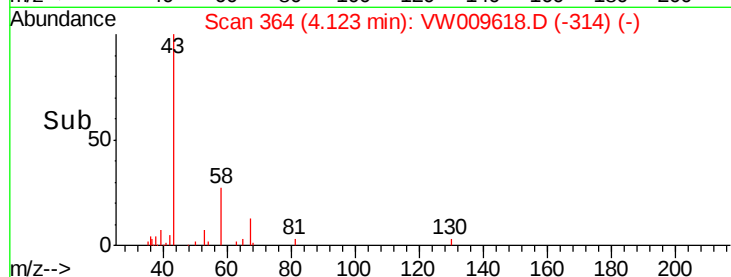
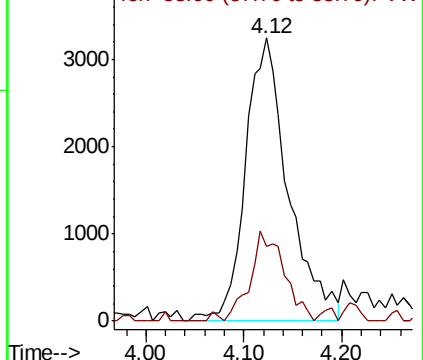
43 100

58 26.4 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 57.443 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Tgt Ion: 84 Resp: 144336

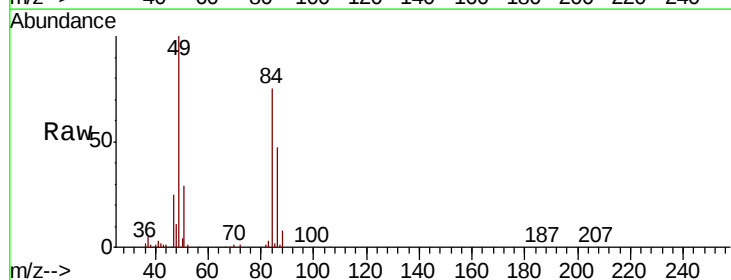
Ion Ratio Lower Upper

84 100

49 134.2 99.1 148.7

51 39.4 28.7 43.1

86 62.4 50.5 75.7

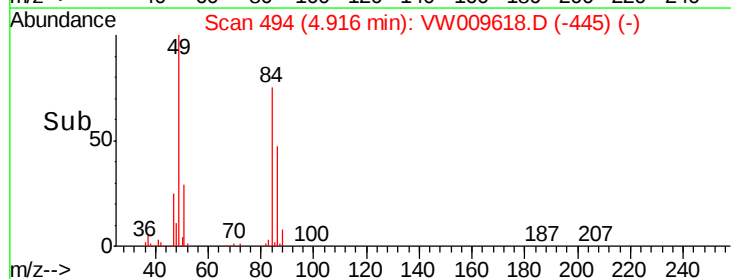
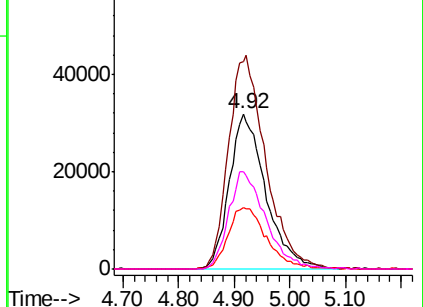


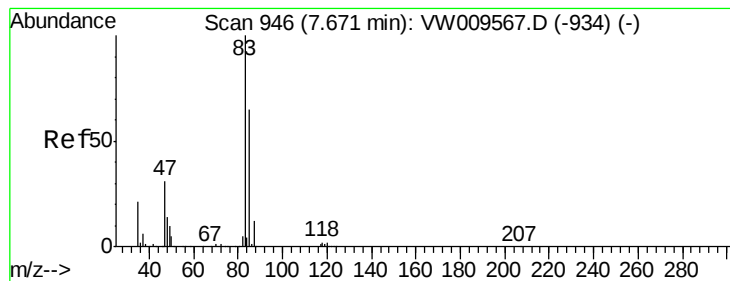
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#30

Chloroform

Concen: 1.011 ug/l

RT: 7.67 min Scan# 945

Delta R.T. -0.01 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Instrument :

MSVOA_W

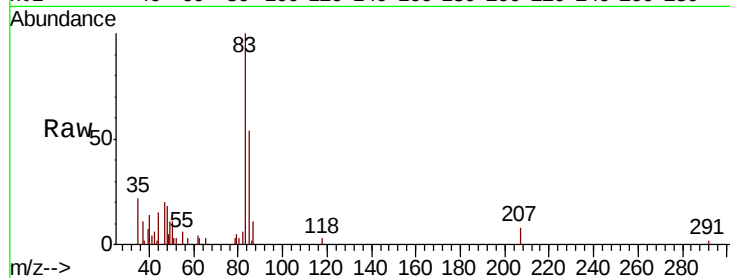
ClientSampled :

Tot Ion: 83 Resp: 5285

Ion Ratio Lower Upper

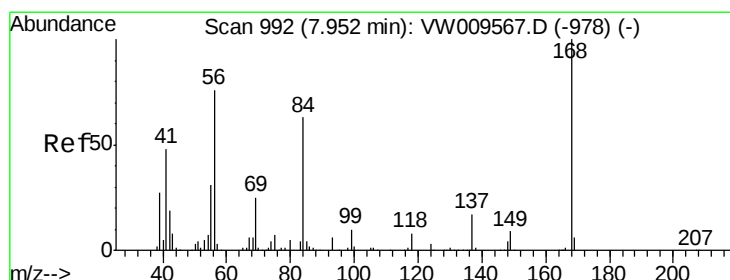
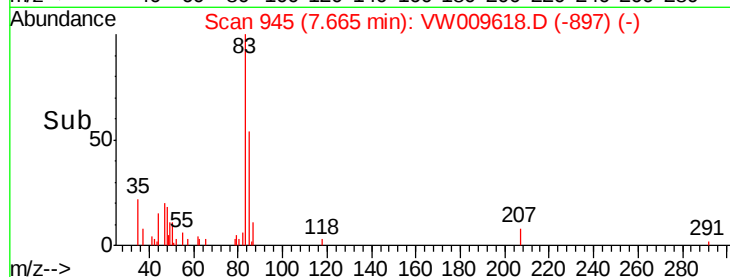
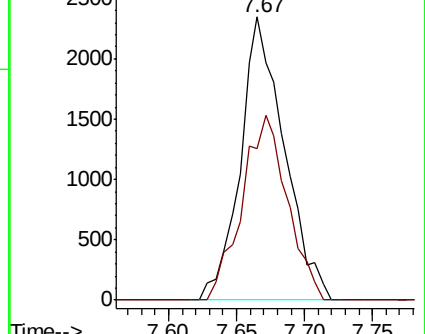
83 100

85 53.7 51.0 76.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW



#31

Cyclohexane

Concen: 1.459 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

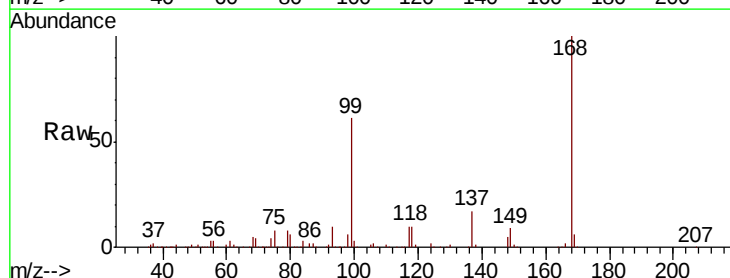
Tgt Ion: 56 Resp: 6905

Ion Ratio Lower Upper

56 100

69 148.5 26.1 39.1#

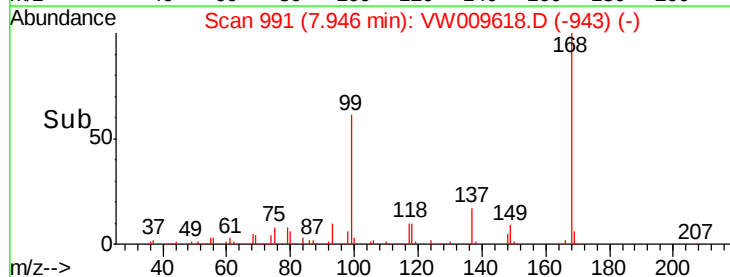
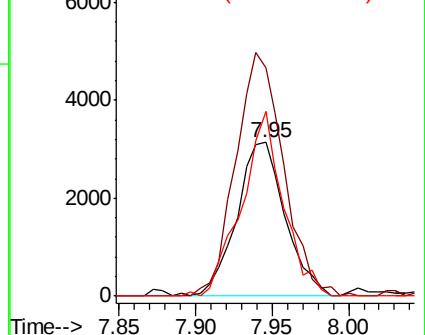
84 119.8 68.6 103.0#

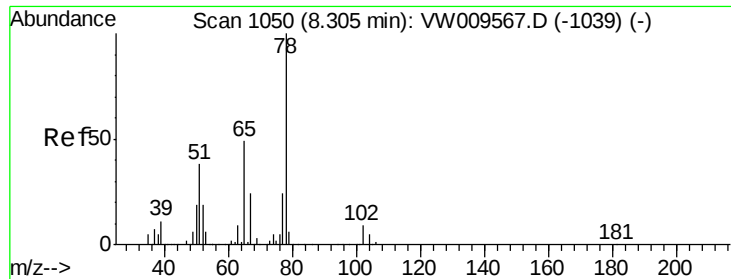


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 41.576 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Instrument :

MSVOA_W

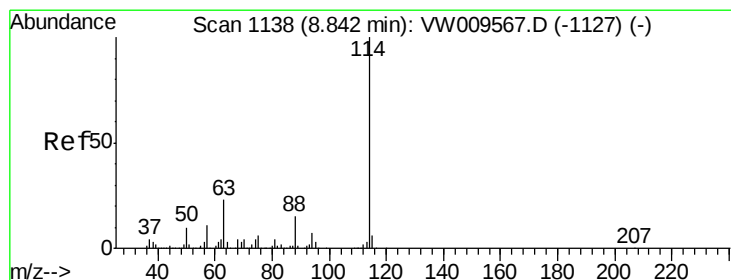
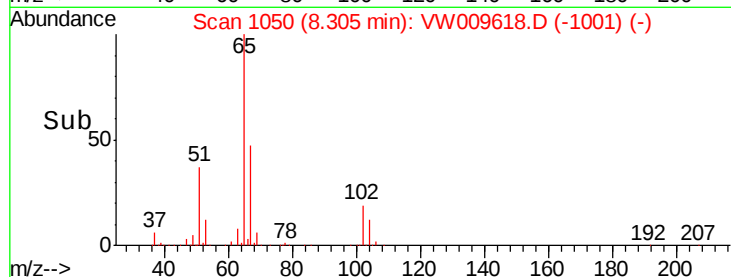
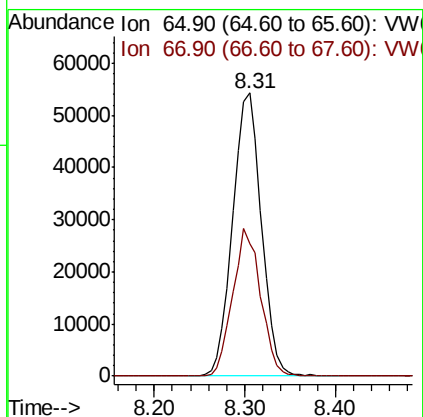
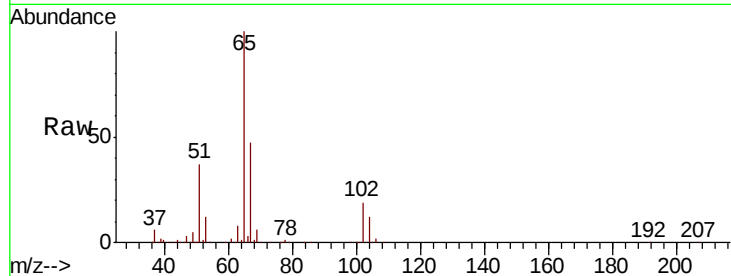
ClientSampleId :

Tot Ion: 65 Resp: 119640

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

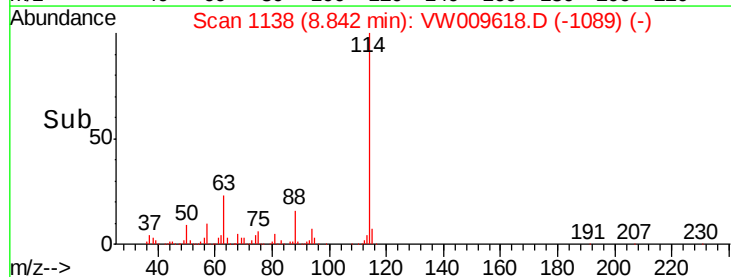
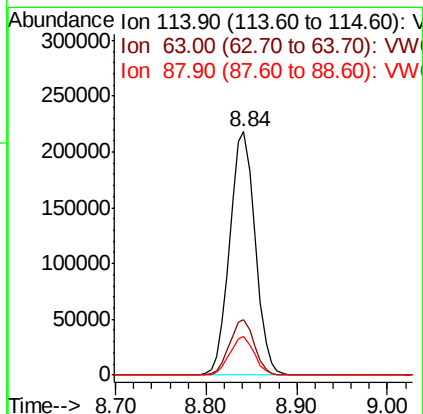
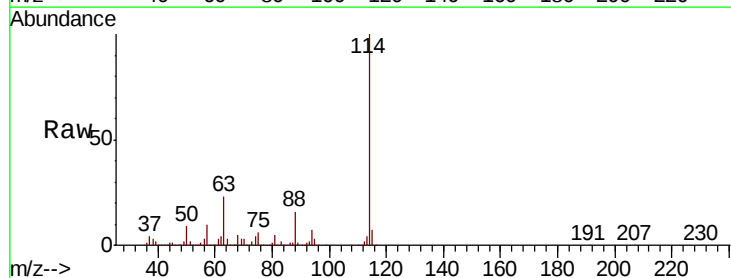
Tgt Ion: 114 Resp: 425556

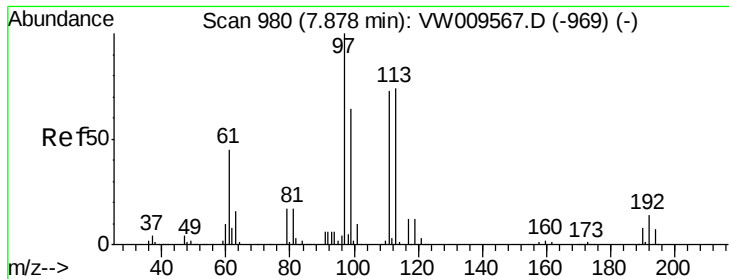
Ion Ratio Lower Upper

114 100

63 22.9 0.0 42.2

88 16.1 0.0 30.8

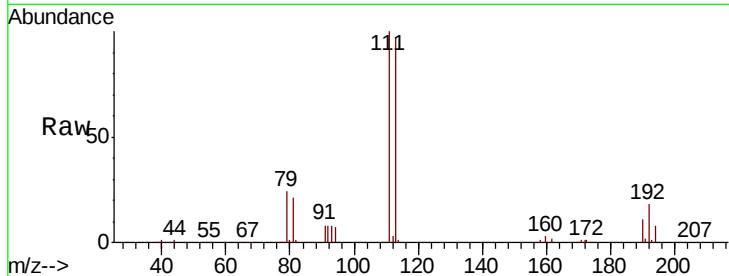




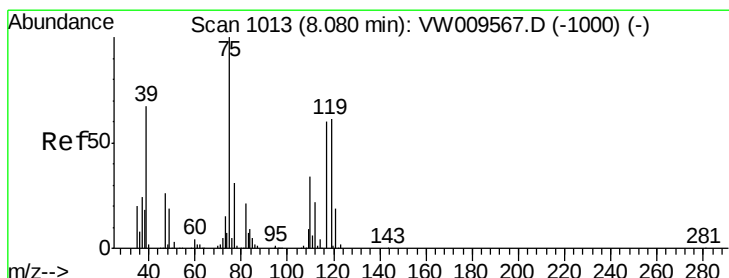
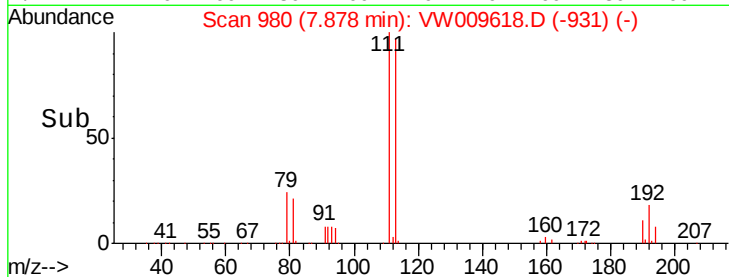
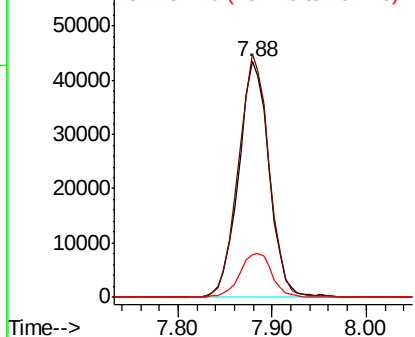
#35
 Dibromofluoromethane
 Concen: 36.923 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. 0.00 min
 Lab File: VW009618.D
 Acq: 31 Mar 2019 18:36

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	124.0
192	19.6	16.4	24.6

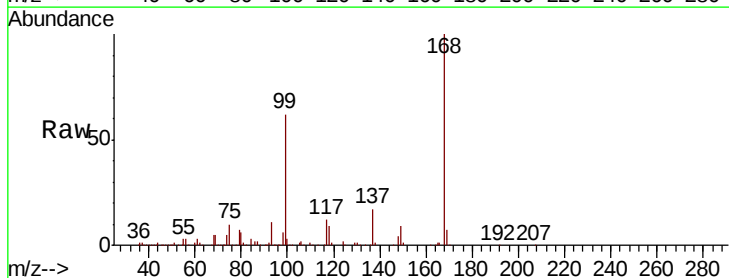


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

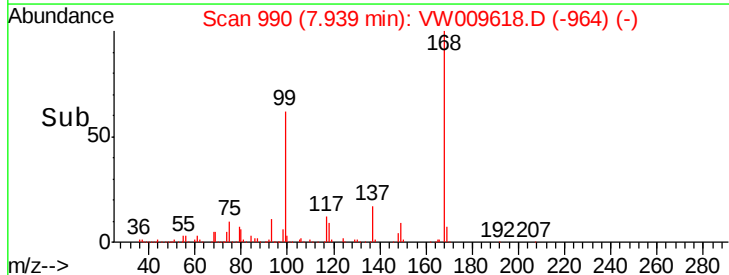
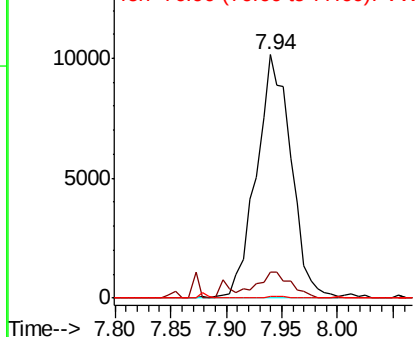


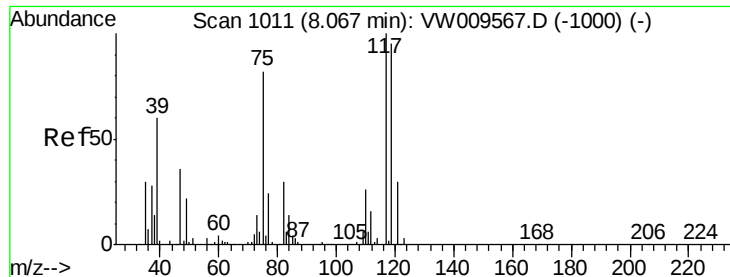
#36
 1,1-Dichloropropene
 Concen: 5.016 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW009618.D
 Acq: 31 Mar 2019 18:36

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	16.8	50.4#
77	0.3	24.6	36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

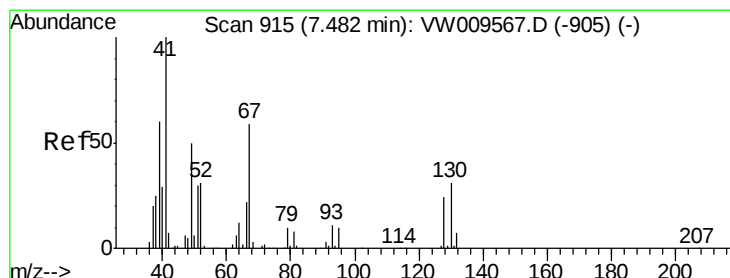
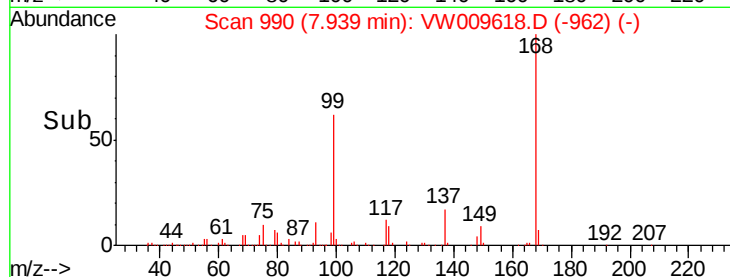
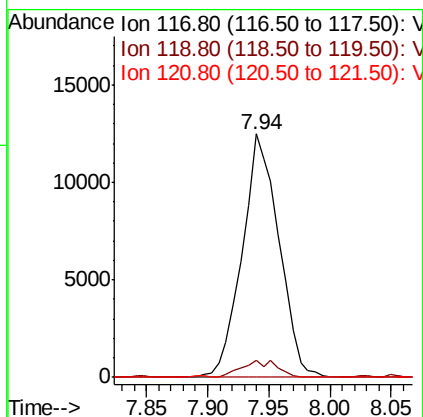
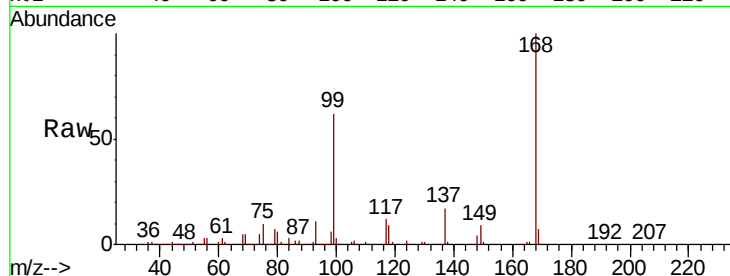




#38
Carbon Tetrachloride
Concen: 5.770 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW009618.D
Acq: 31 Mar 2019 18:36

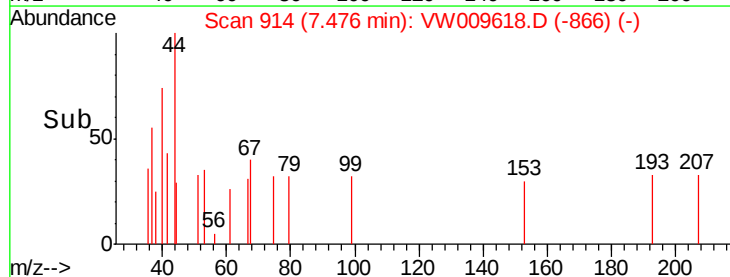
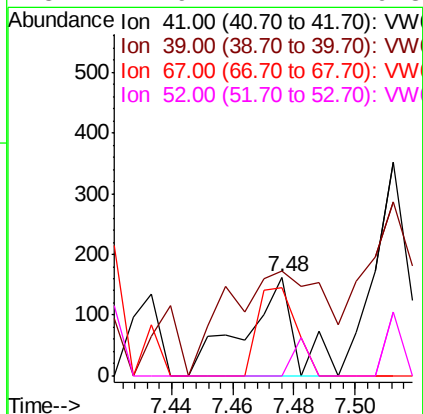
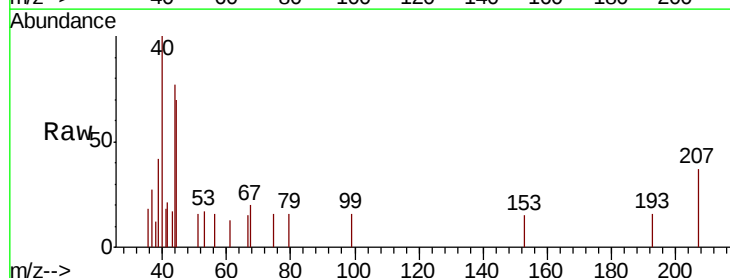
Instrument :
MSVOA_W
ClientSampled :

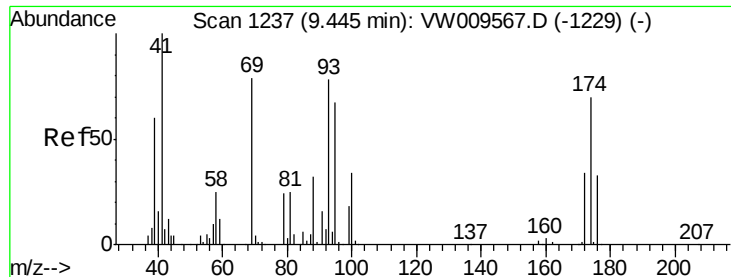
Tot Ion:117 Resp: 26024
Ion Ratio Lower Upper
117 100
119 7.0 75.4 113.0#
121 0.0 24.9 37.3#



#41
Methacrylonitrile
Concen: 4.053 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW009618.D
Acq: 31 Mar 2019 18:36

Tgt Ion: 41 Resp: 194
Ion Ratio Lower Upper
41 100
39 197.9 52.5 78.7#
67 66.0 56.6 84.8
52 11.9 27.2 40.8#





#49

1,4-Dioxane

Concen: 3.046 ug/l

RT: 9.35 min Scan# 1222

Delta R.T. -0.09 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Instrument :

MSVOA_W

ClientSampled :

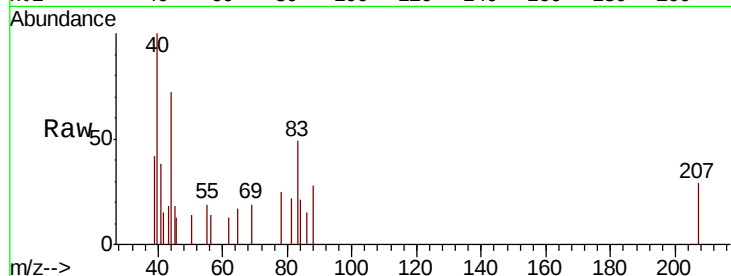
Tot Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 193.3 29.7 44.5#

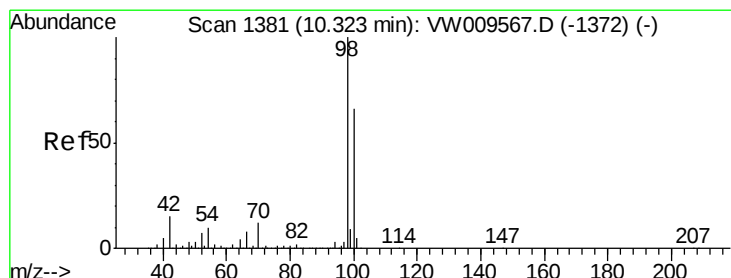
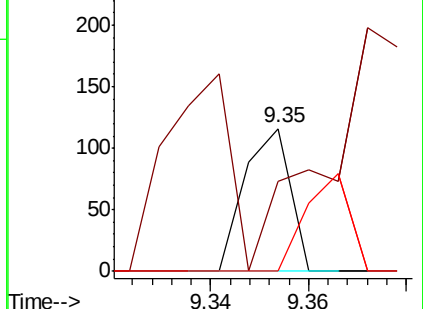
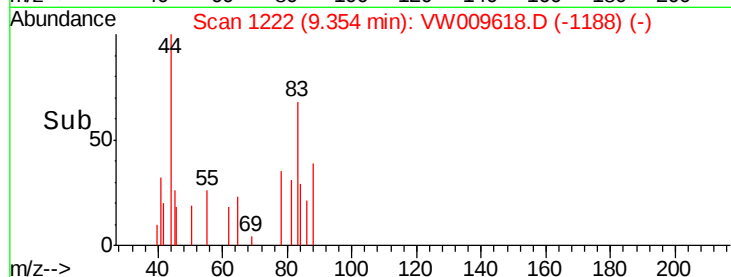
58 0.0 58.1 87.1#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 33.806 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009618.D

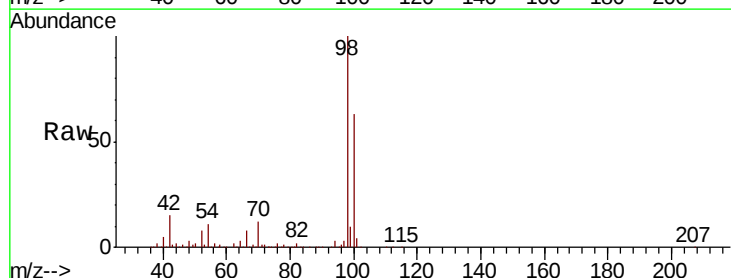
Acq: 31 Mar 2019 18:36

Tgt Ion: 98 Resp: 333971

Ion Ratio Lower Upper

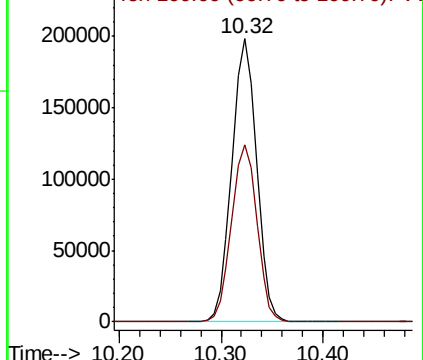
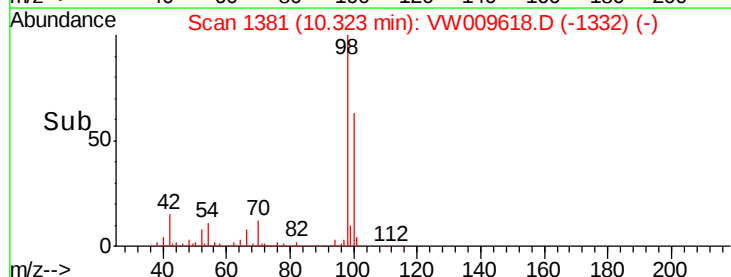
98 100

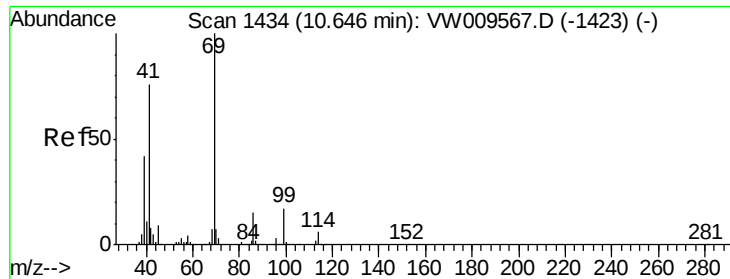
100 64.3 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#56

Ethyl methacrylate

Concen: 3.846 ug/l

RT: 10.65 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Instrument :

MSVOA_W

ClientSampled :

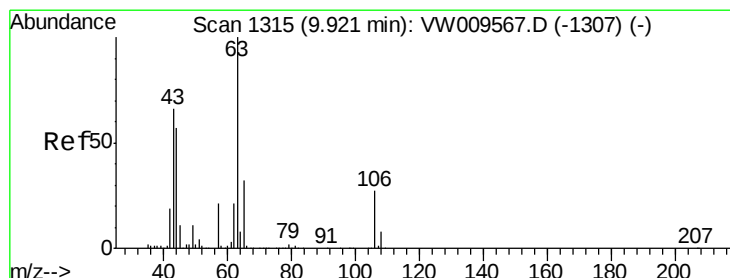
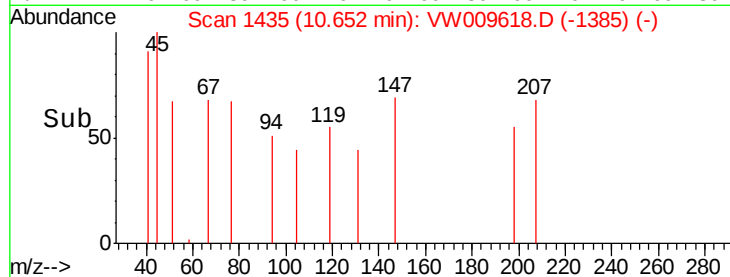
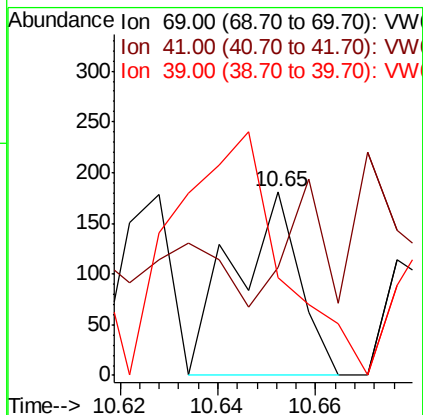
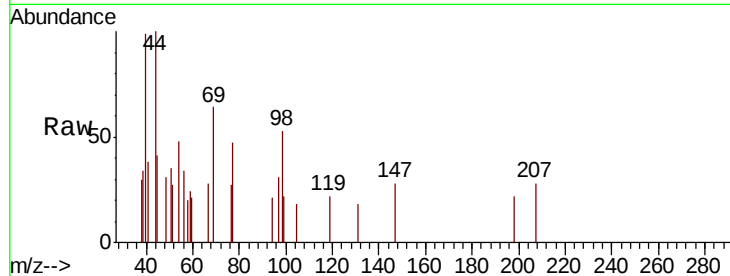
Tot Ion: 69 Resp: 167

Ion Ratio Lower Upper

69 100

41 71.9 59.3 88.9

39 216.2 36.2 54.2#



#58

2-Chloroethyl Vinyl ether

Concen: 17.057 ug/l

RT: 9.83 min Scan# 1300

Delta R.T. -0.09 min

Lab File: VW009618.D

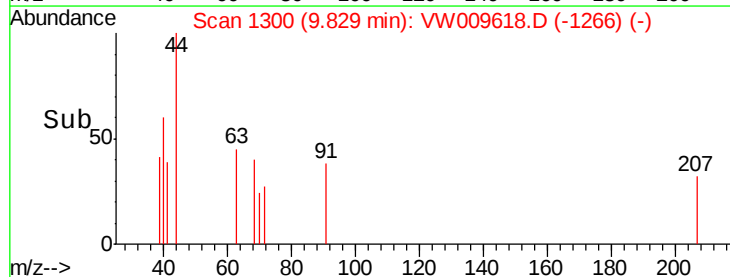
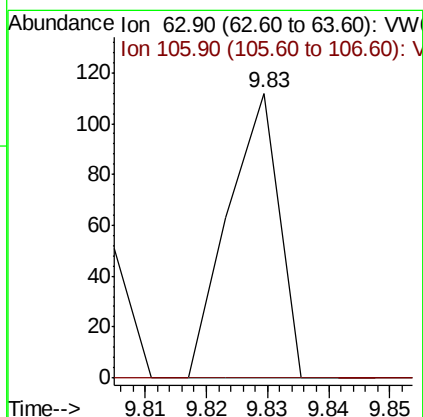
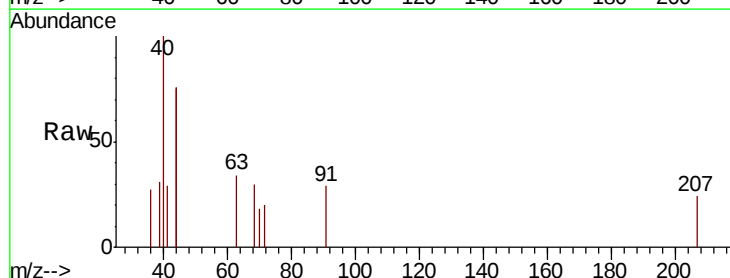
Acq: 31 Mar 2019 18:36

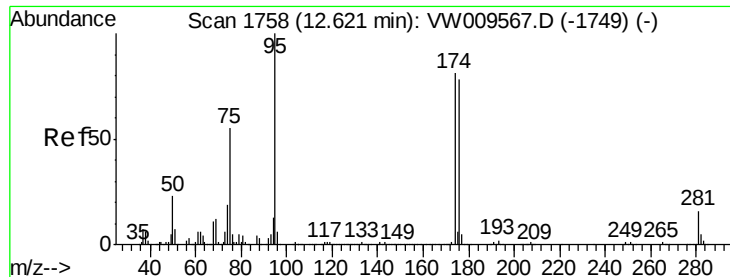
Tgt Ion: 63 Resp: 64

Ion Ratio Lower Upper

63 100

106 0.0 22.9 34.3#

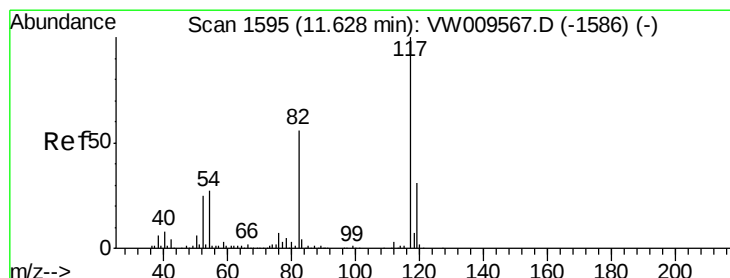
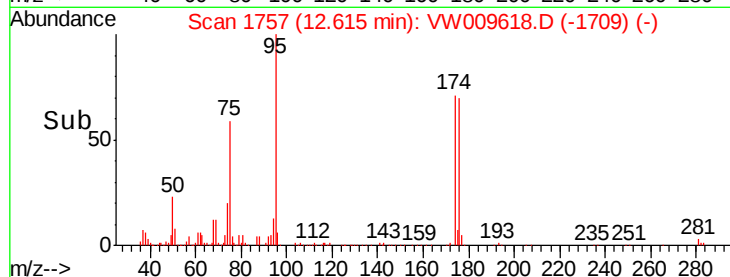
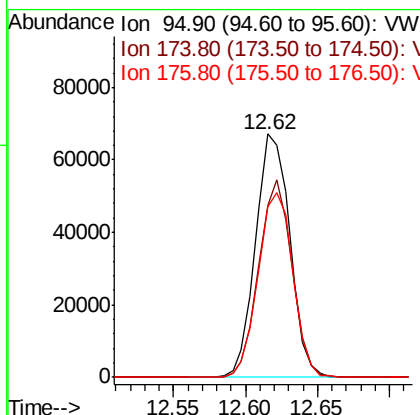
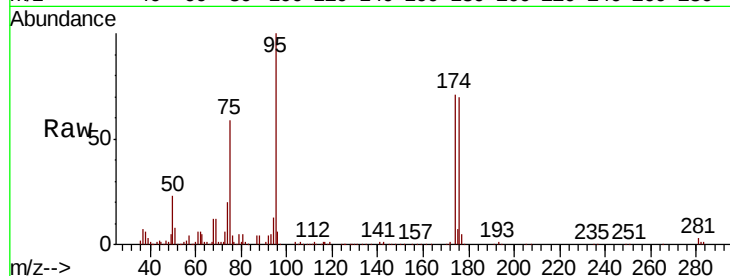




#62
4-Bromofluorobenzene
Concen: 29.935 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW009618.D
Acq: 31 Mar 2019 18:36

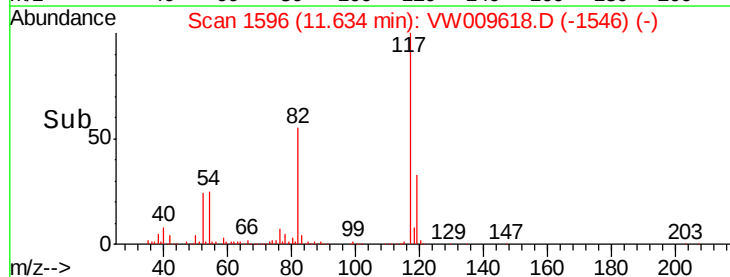
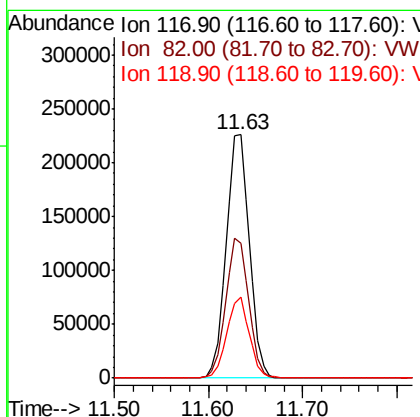
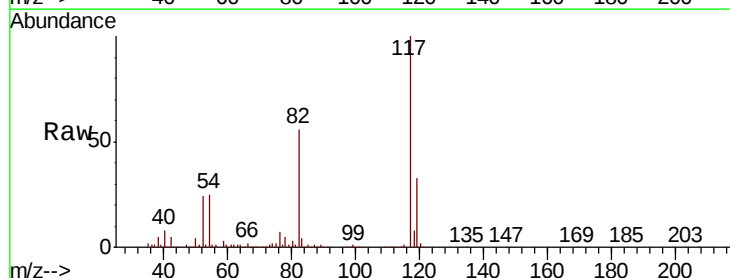
Instrument :
MSVOA_W
ClientSampled :

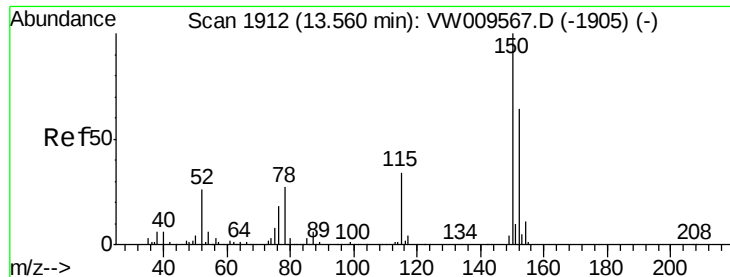
Tot Ion: 95 Resp: 110323
Ion Ratio Lower Upper
95 100
174 78.8 0.0 168.4
176 77.1 0.0 161.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW009618.D
Acq: 31 Mar 2019 18:36

Tgt Ion: 117 Resp: 385402
Ion Ratio Lower Upper
117 100
82 55.5 43.6 65.4
119 32.9 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009618.D

Acq: 31 Mar 2019 18:36

Instrument :

MSVOA_W

ClientSampleId :

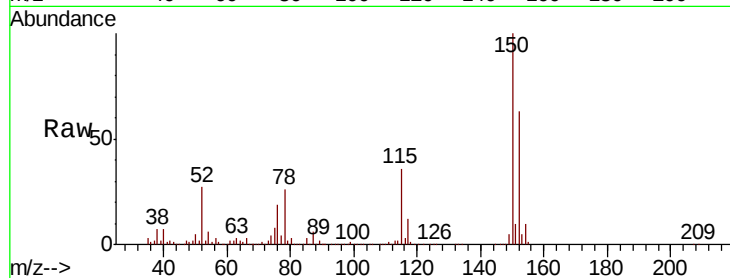
Tot Ion:152 Resp: 186179

Ion Ratio Lower Upper

152 100

115 58.9 29.6 88.8

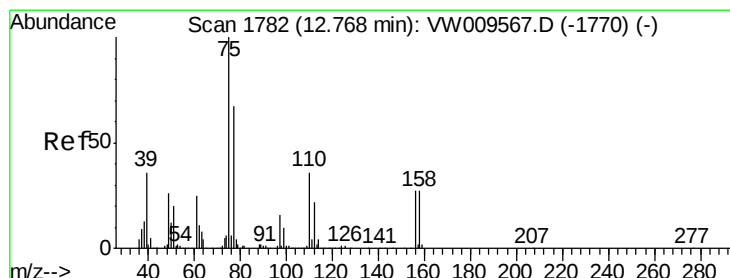
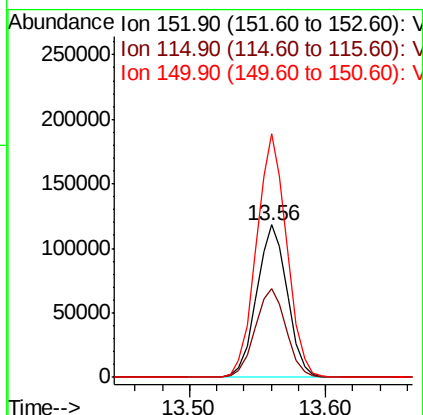
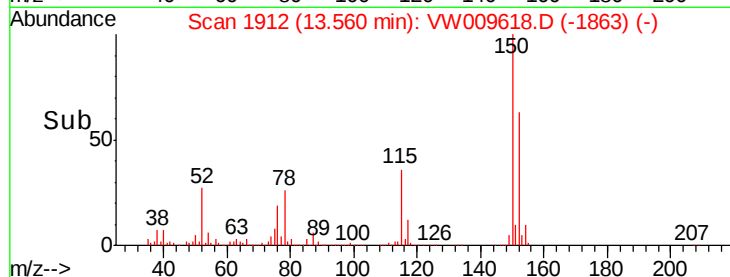
150 158.2 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 36.038 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009618.D

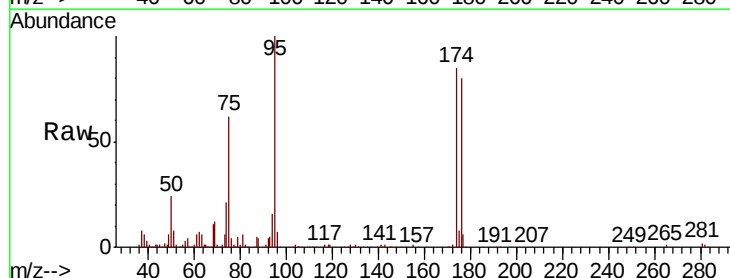
Acq: 31 Mar 2019 18:36

Tgt Ion: 75 Resp: 63096

Ion Ratio Lower Upper

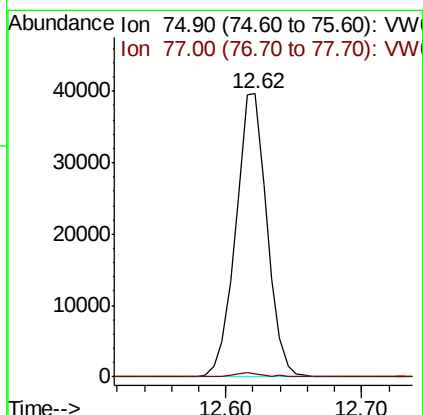
75 100

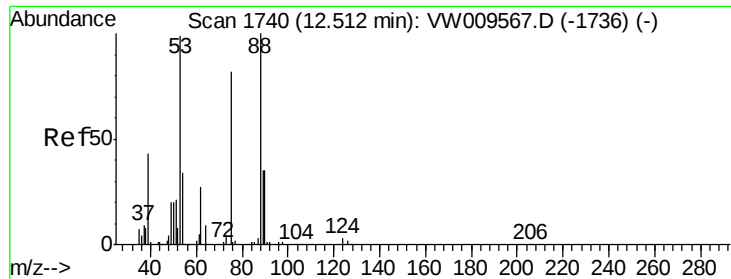
77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

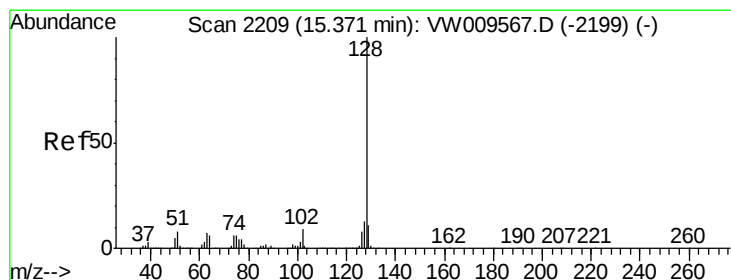
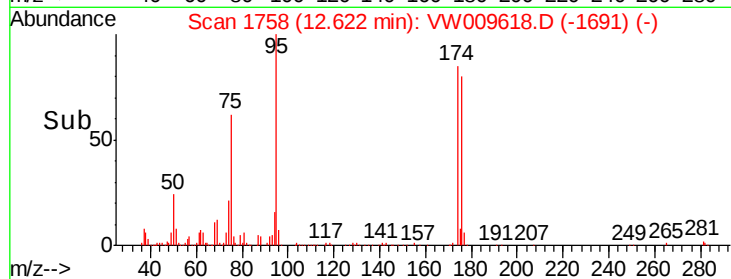
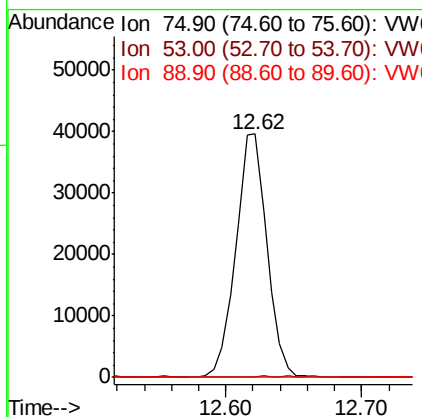
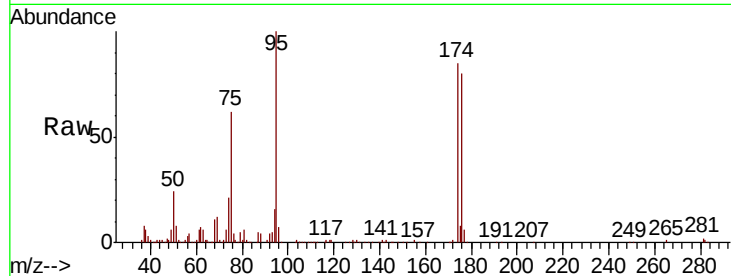




#81
trans-1,4-Dichloro-2-butene
Concen: 83.806 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW009618.D
Acq: 31 Mar 2019 18:36

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 75 Resp: 63096
Ion Ratio Lower Upper
75 100
53 0.1 86.7 130.1#
89 0.0 36.4 54.6#



#95
Naphthalene
Concen: 2.826 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW009618.D
Acq: 31 Mar 2019 18:36

Tgt Ion: 128 Resp: 795
Ion Ratio Lower Upper
128 100
127 12.8 10.8 16.2
129 3.6 8.7 13.1#

