

Data File : VW008740.D
Acq On : 18 Feb 2019 20:27
Operator : SY/VA
Sample : K1518-19RE
Misc : 7.01G/5ML/MSVOA_W/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-MH-C05

Quant Time: Feb 19 03:33:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 04:06:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	360505	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	551284	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	485569	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	230475	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	194692	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
35) Dibromofluoromethane	7.88	113	176359	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
50) Toluene-d8	10.32	98	651292	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
62) 4-Bromofluorobenzene	12.62	95	223733	45.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.02%	

Target Compounds

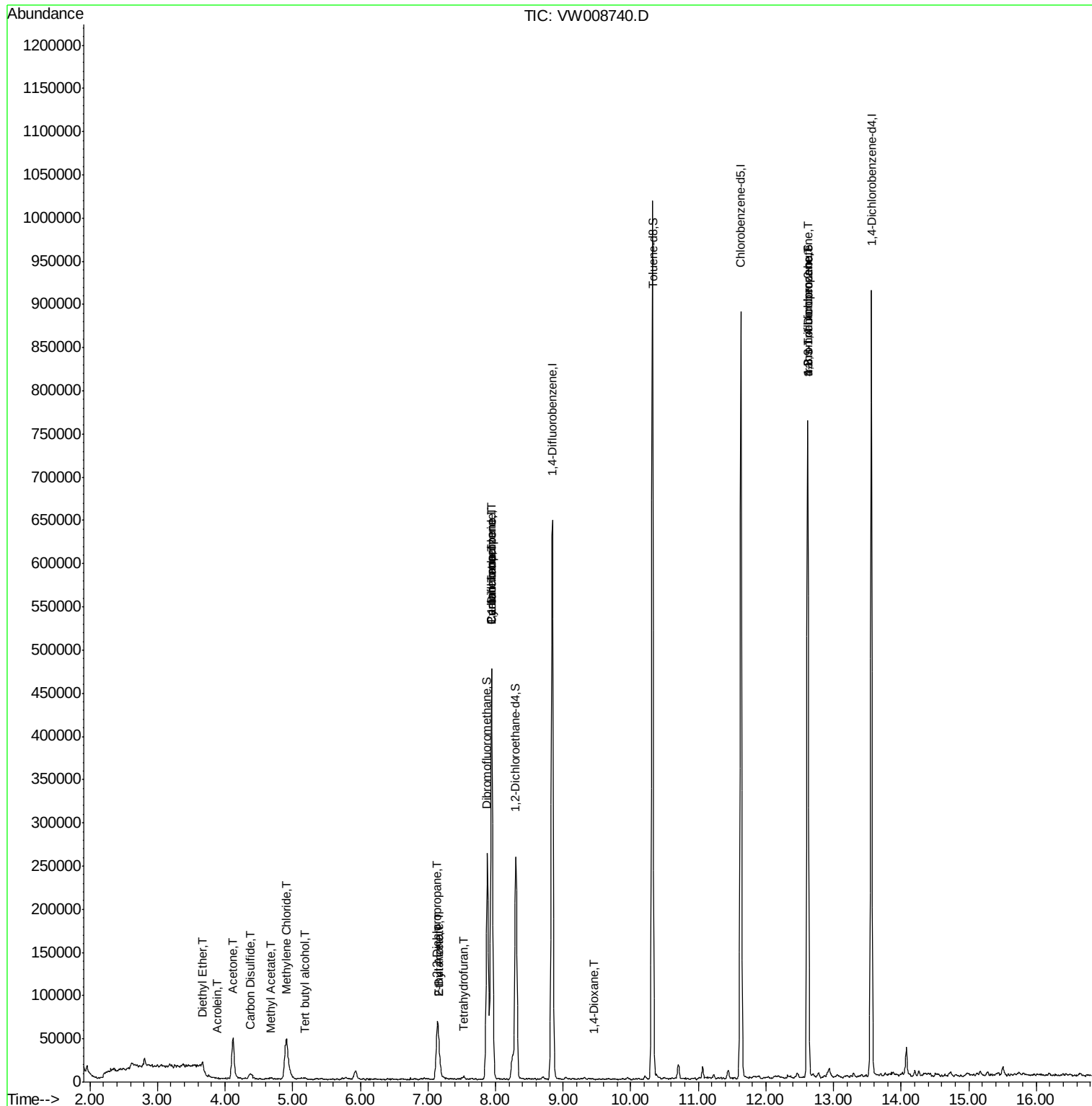
						Qvalue
8) Diethyl Ether	3.67	74	2351	1.157	ug/l	64
11) Tert butyl alcohol	5.18	59	667	2.224	ug/l #	39
13) Acrolein	3.89	56	559	1.809	ug/l #	53
16) Acetone	4.12	43	80639	94.550	ug/l	94
17) Carbon Disulfide	4.37	76	10625	1.000	ug/l #	92
18) Methyl Acetate	4.67	43	3101	1.591	ug/l	97
20) Methylene Chloride	4.90	84	41456	4.440	ug/l	90
25) 2-Butanone	7.17	43	21088	17.511	ug/l	96
26) 2,2-Dichloropropane	7.13	77	4911	1.158	ug/l #	52
29) Tetrahydrofuran	7.53	42	2320	2.923	ug/l #	86
31) Cyclohexane	7.95	56	7737	1.129	ug/l #	28
36) 1,1-Dichloropropene	7.95	75	27402	4.947	ug/l #	50
37) Ethyl Acetate	7.17	43	21088	7.893	ug/l #	70
38) Carbon Tetrachloride	7.95	117	34472	6.259	ug/l #	16
49) 1,4-Dioxane	9.46	88	49	1.489	ug/l #	52
76) 1,2,3-Trichloropropane	12.62	75	119127	52.345	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	119127	112.113	ug/l #	7

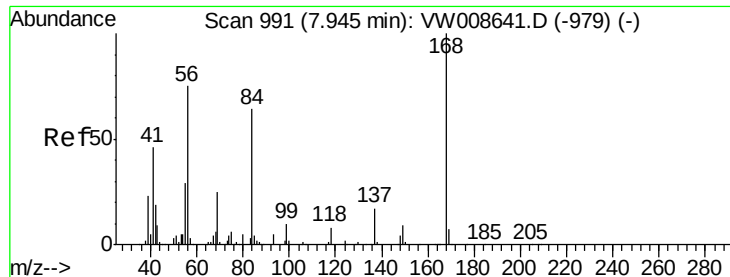
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008740.D

Acq: 18 Feb 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

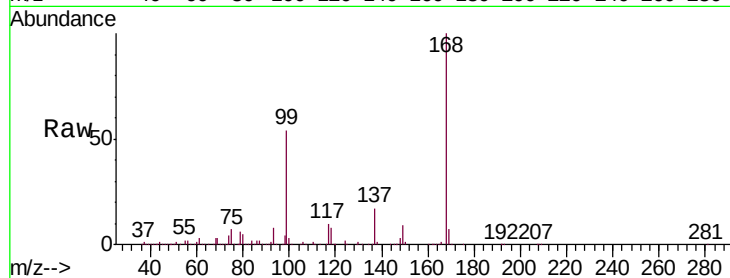
TP-MH-C05

Tgt Ion:168 Resp: 360505

Ion Ratio Lower Upper

168 100

99 54.2 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

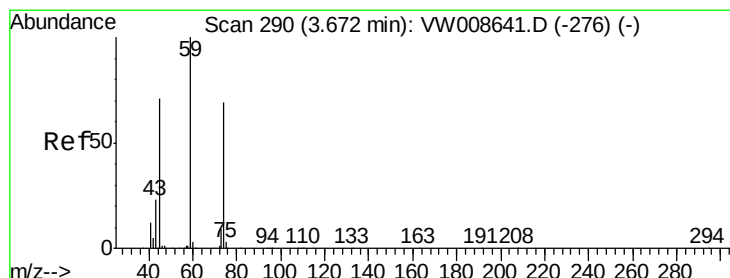
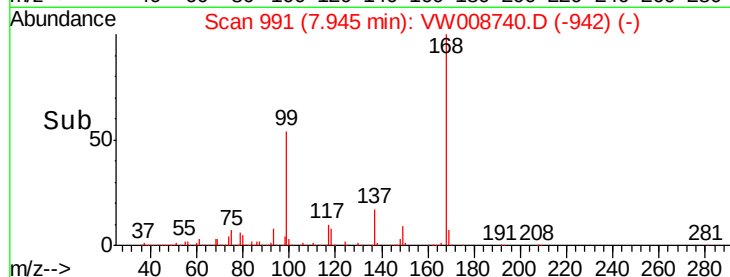
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.157 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW008740.D

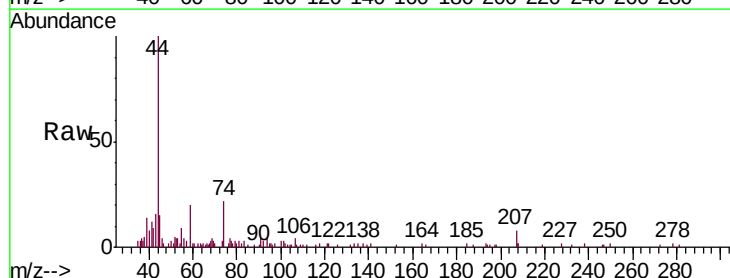
Acq: 18 Feb 2019 20:27

Tgt Ion: 74 Resp: 2351

Ion Ratio Lower Upper

74 100

45 136.2 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

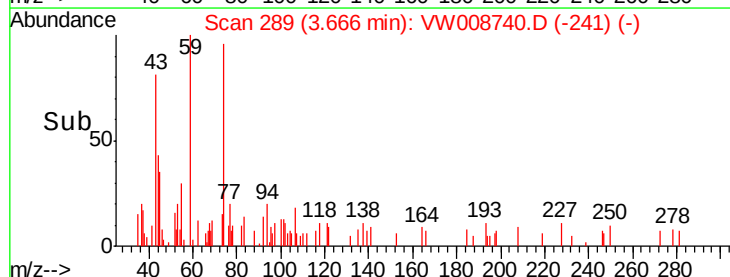
3.67

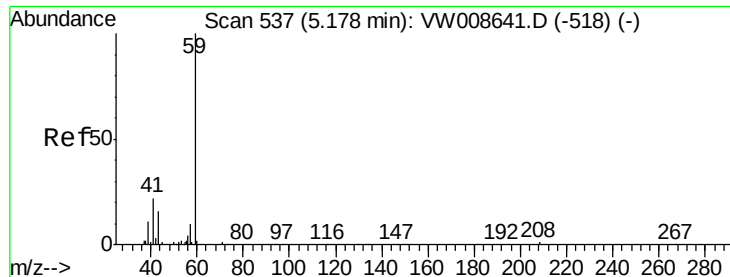
1000

500

0

Time-->

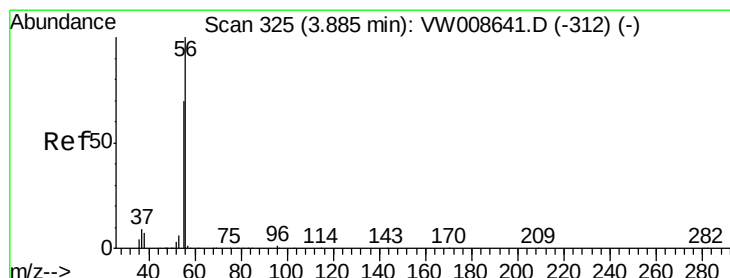
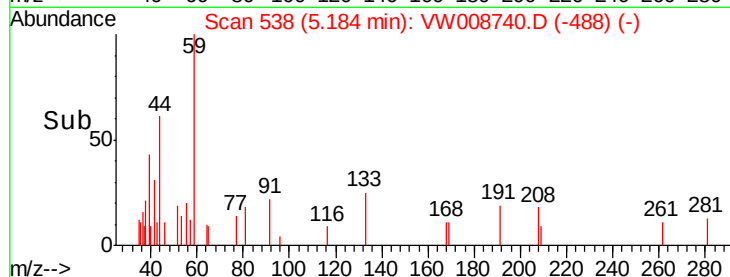
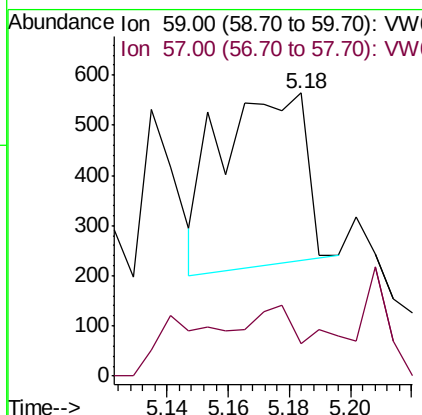
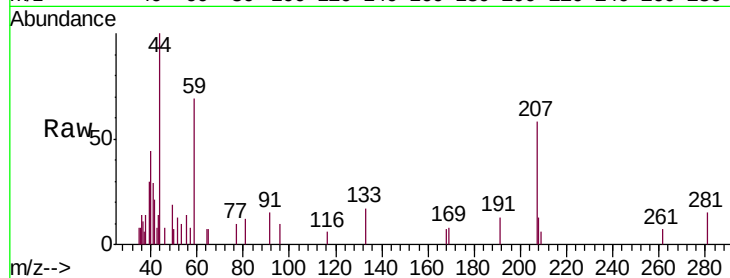




#11
Tert butyl alcohol
Concen: 2.224 ug/l
RT: 5.18 min Scan# 538
Delta R.T. 0.01 min
Lab File: VW008740.D
Acq: 18 Feb 2019 20:27

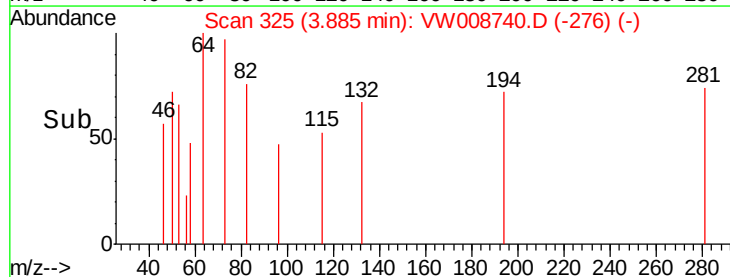
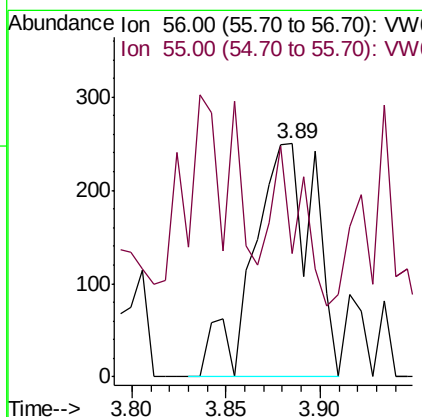
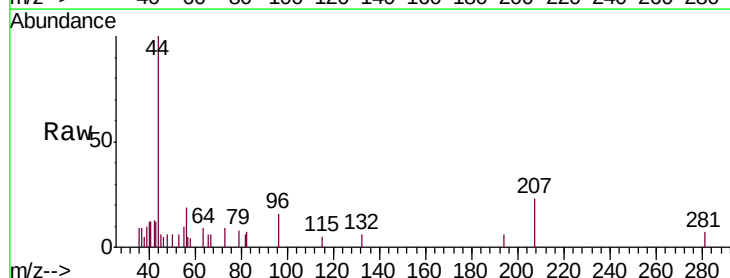
Instrument :
MSVOA_W
ClientSampled :
TP-MH-C05

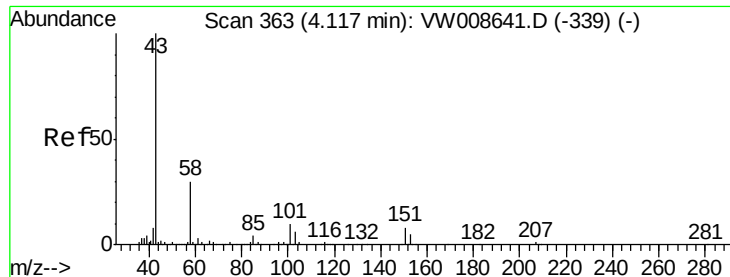
Tgt Ion: 59 Resp: 667
Ion Ratio Lower Upper
59 100
57 33.1 8.3 12.5#



#13
Acrolein
Concen: 1.809 ug/l
RT: 3.89 min Scan# 325
Delta R.T. -0.00 min
Lab File: VW008740.D
Acq: 18 Feb 2019 20:27

Tgt Ion: 56 Resp: 559
Ion Ratio Lower Upper
56 100
55 32.4 57.4 86.2#





#16

Acetone

Concen: 94.550 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

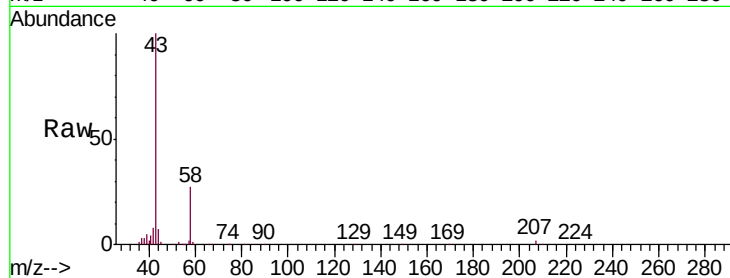
TP-MH-C05

Tgt Ion: 43 Resp: 80639

Ion Ratio Lower Upper

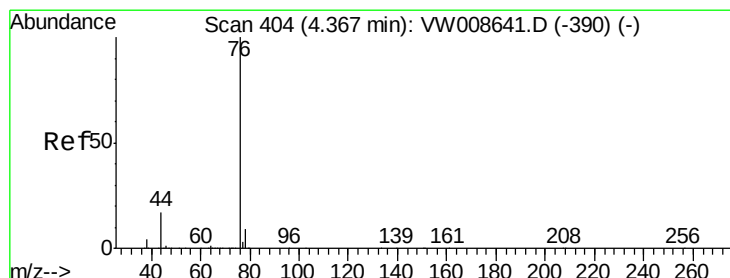
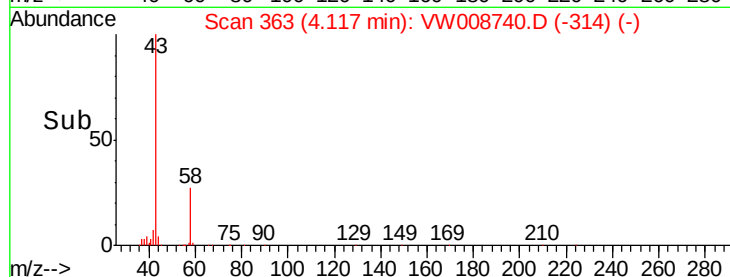
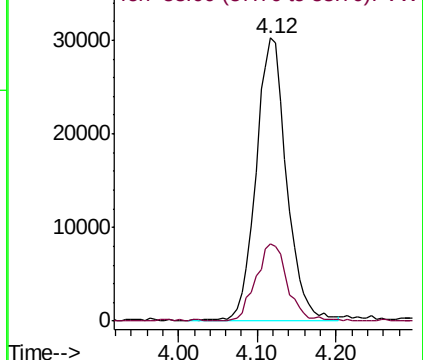
43 100

58 26.8 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 1.000 ug/l

RT: 4.37 min Scan# 405

Delta R.T. 0.01 min

Lab File: VW008740.D

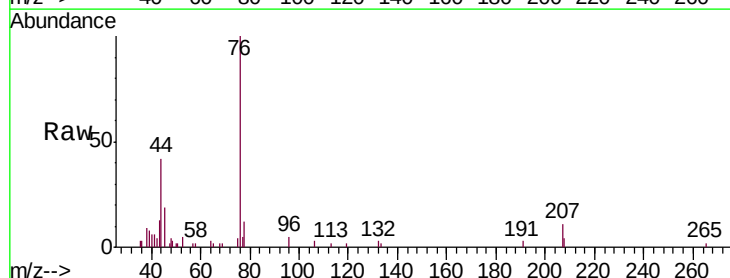
Acq: 18 Feb 2019 20:27

Tgt Ion: 76 Resp: 10625

Ion Ratio Lower Upper

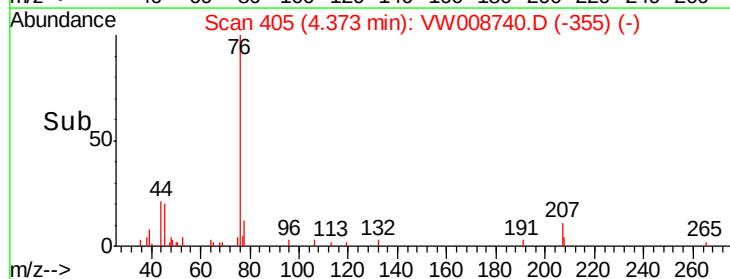
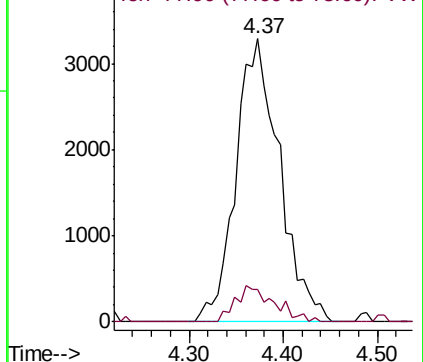
76 100

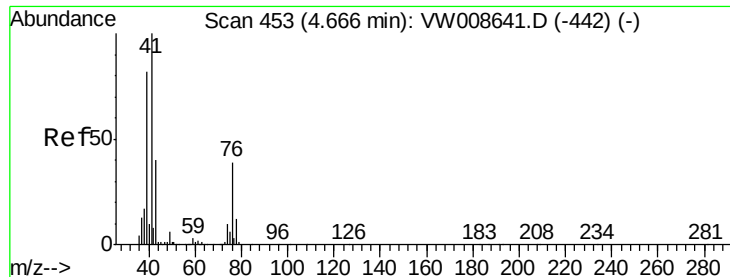
78 11.6 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

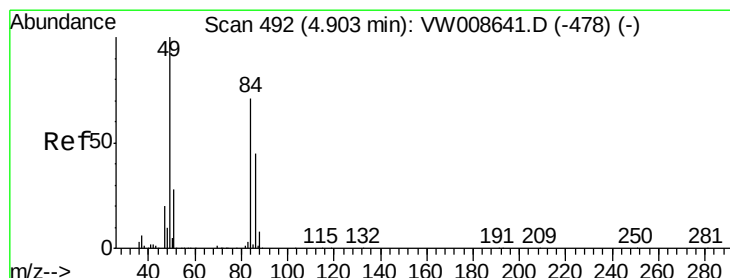
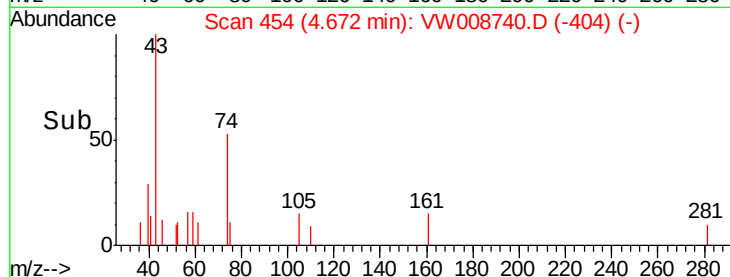
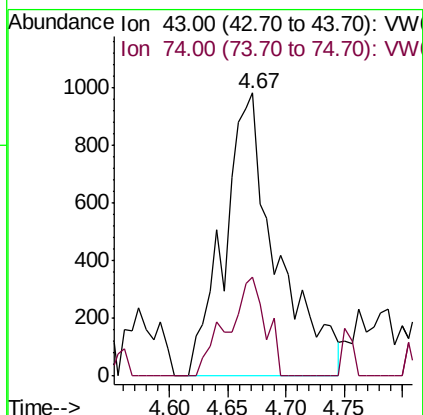
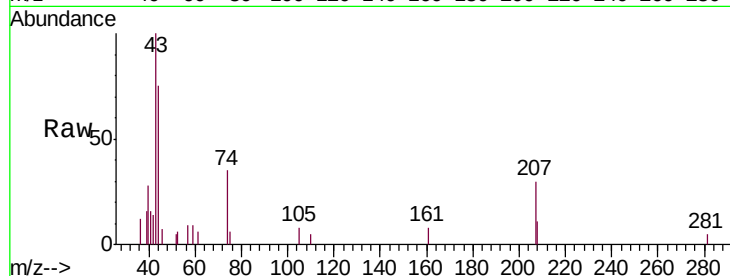




#18
Methyl Acetate
Concen: 1.591 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW008740.D
Acq: 18 Feb 2019 20:27

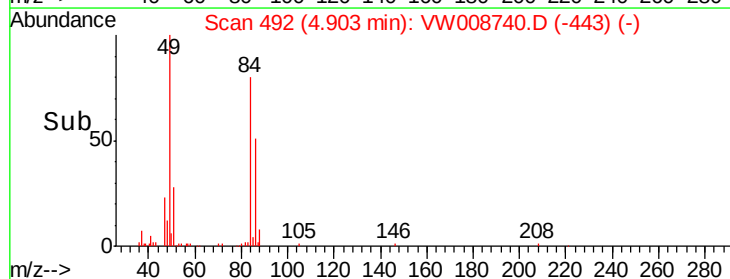
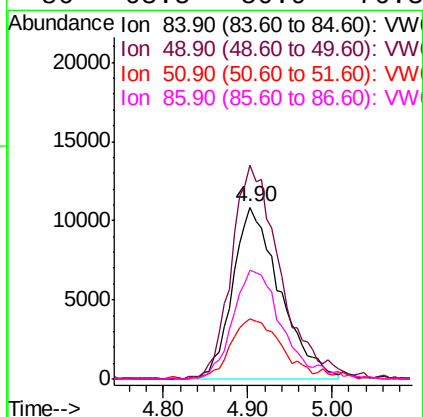
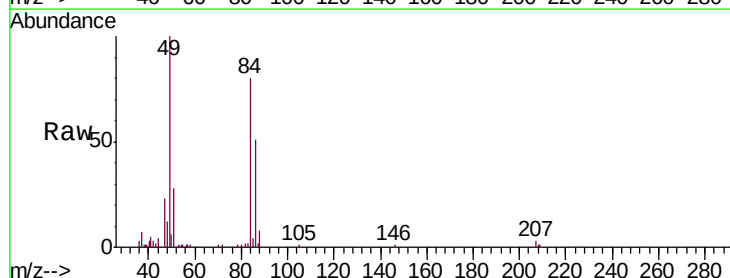
Instrument :
MSVOA_W
ClientSampleId :
TP-MH-C05

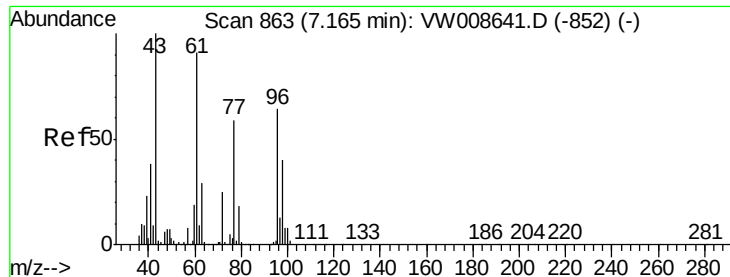
Tgt Ion: 43 Resp: 3101
Ion Ratio Lower Upper
43 100
74 25.0 19.0 28.4



#20
Methylene Chloride
Concen: 4.440 ug/l
RT: 4.90 min Scan# 492
Delta R.T. 0.00 min
Lab File: VW008740.D
Acq: 18 Feb 2019 20:27

Tgt Ion: 84 Resp: 41456
Ion Ratio Lower Upper
84 100
49 123.1 113.3 169.9
51 33.9 32.1 48.1
86 63.5 50.9 76.3





#25

2-Butanone

Concen: 17.511 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

Instrument :

MSVOA_W

ClientSampled :

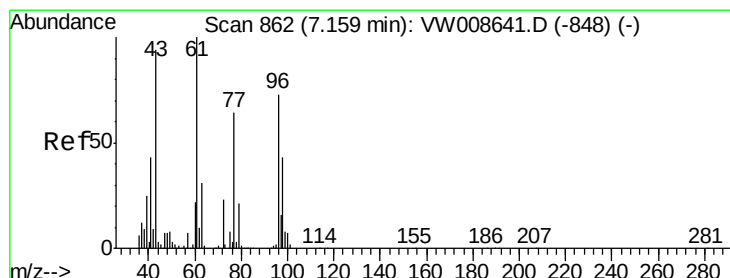
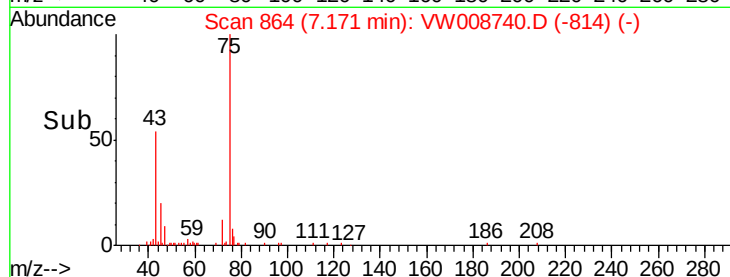
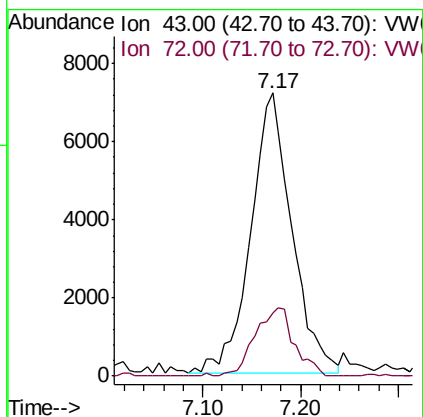
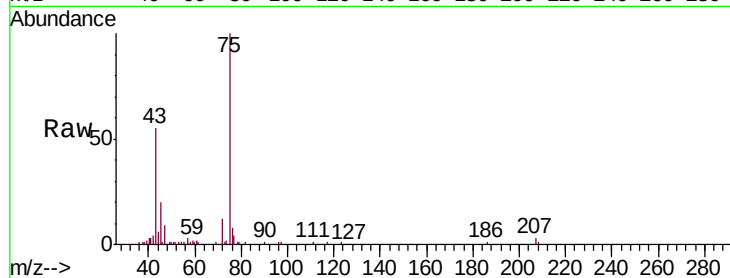
TP-MH-C05

Tgt Ion: 43 Resp: 21088

Ion Ratio Lower Upper

43 100

72 22.4 19.7 29.5



#26

2,2-Dichloropropane

Concen: 1.158 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.02 min

Lab File: VW008740.D

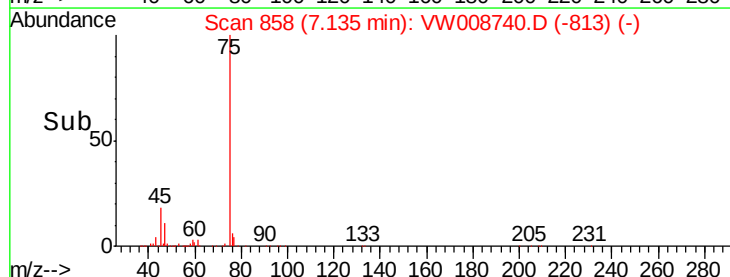
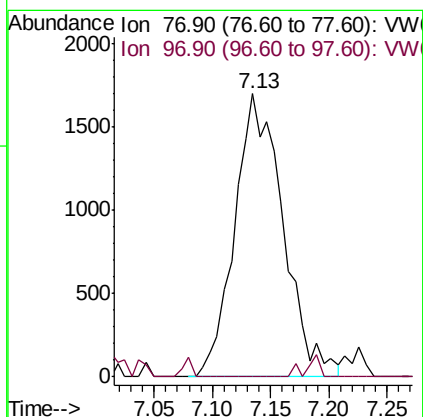
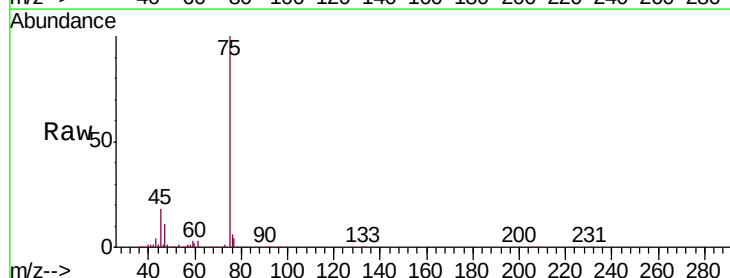
Acq: 18 Feb 2019 20:27

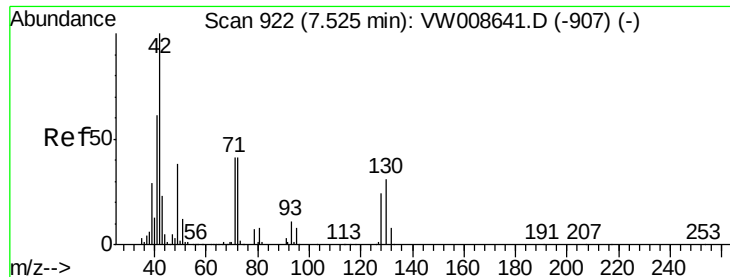
Tgt Ion: 77 Resp: 4911

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#





#29

Tetrahydrofuran

Concen: 2.923 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

TP-MH-C05

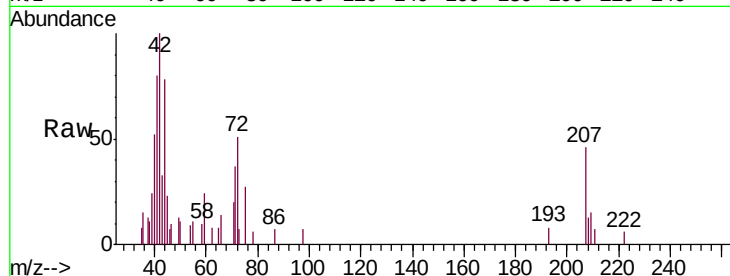
Tgt Ion: 42 Resp: 2320

Ion Ratio Lower Upper

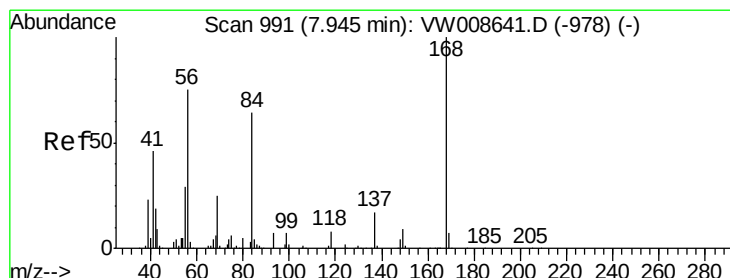
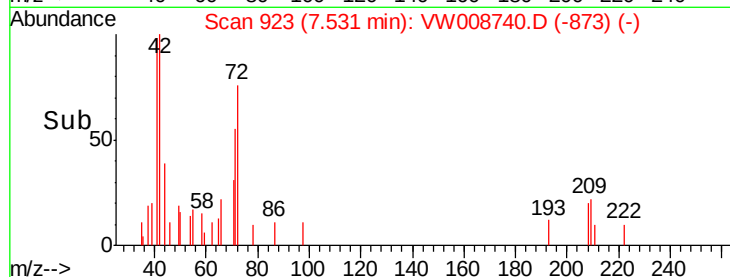
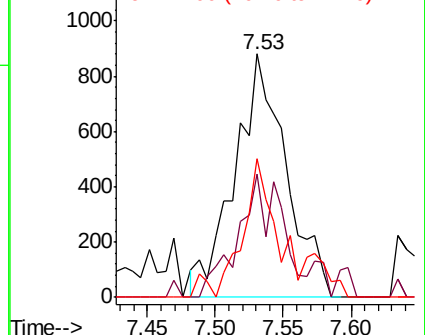
42 100

72 26.7 32.2 48.2#

71 35.8 31.0 46.6



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.129 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

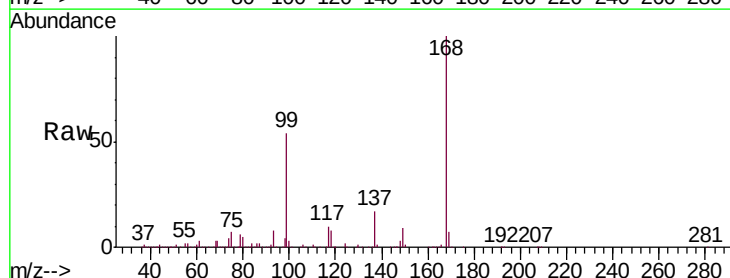
Tgt Ion: 56 Resp: 7737

Ion Ratio Lower Upper

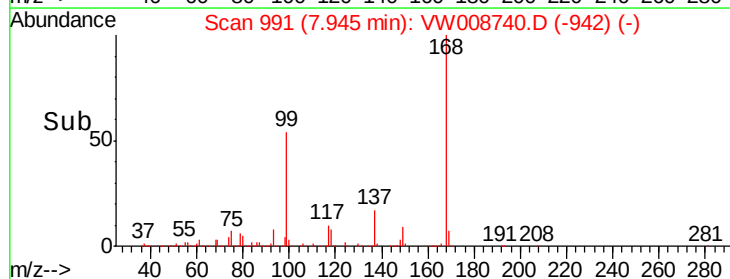
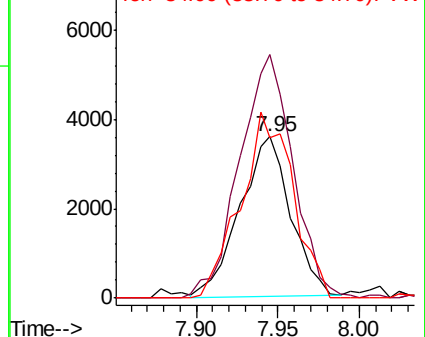
56 100

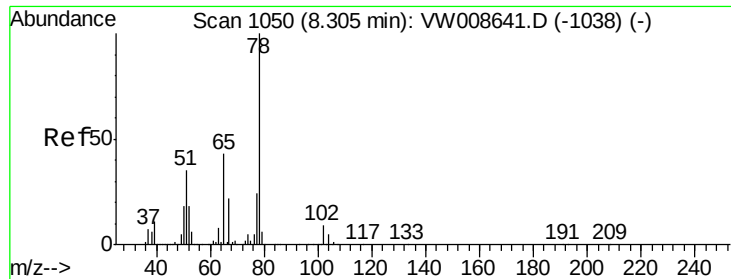
69 150.8 26.4 39.6#

84 101.4 67.4 101.2#



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

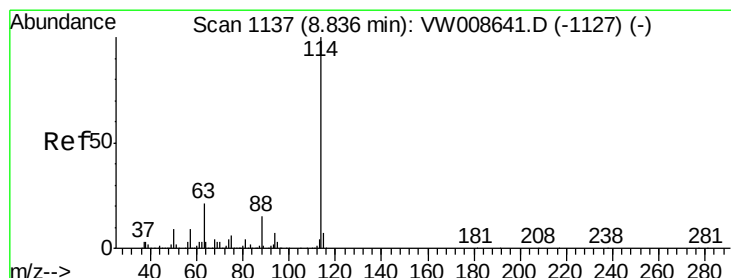
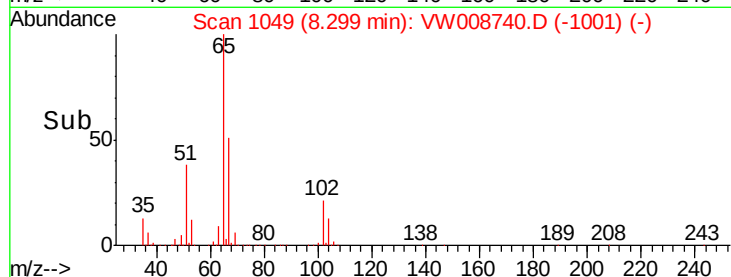
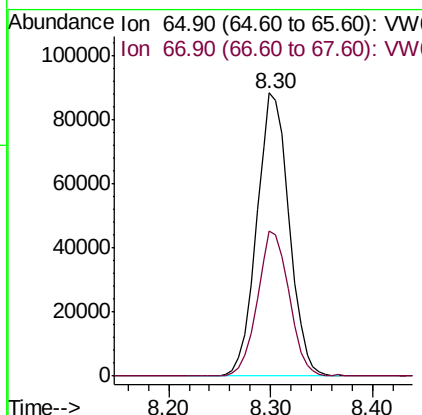
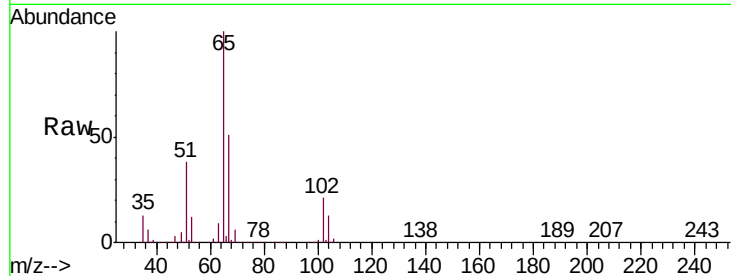




#33
 1,2-Dichloroethane-d4
 Concen: 51.947 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW008740.D
 Acq: 18 Feb 2019 20:27

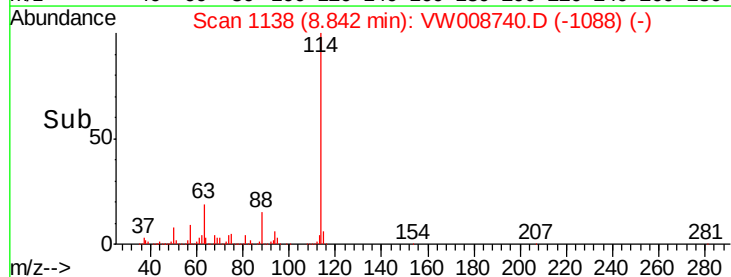
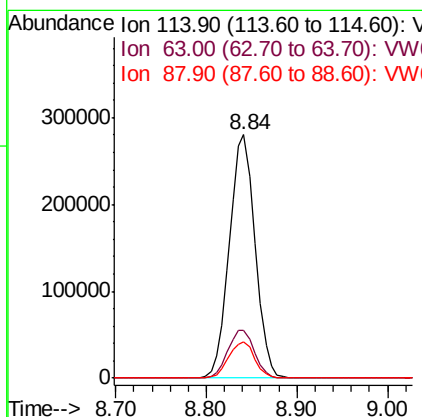
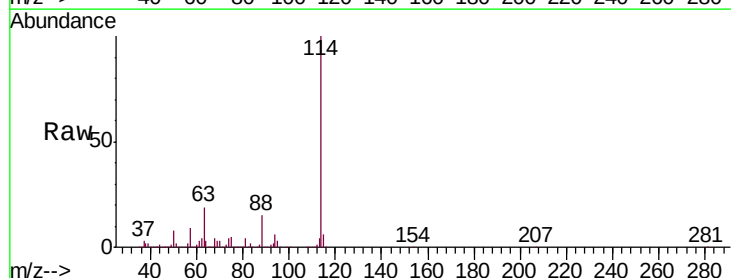
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-MH-C05

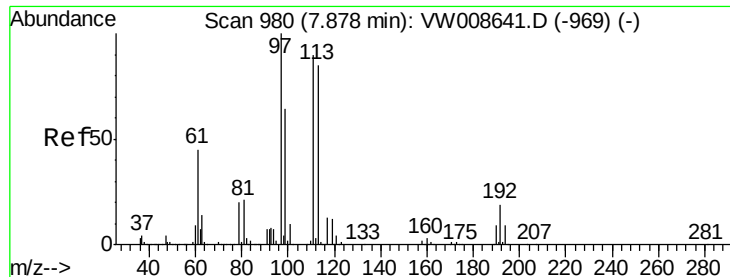
Tgt Ion: 65 Resp: 194692
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.01 min
 Lab File: VW008740.D
 Acq: 18 Feb 2019 20:27

Tgt Ion: 114 Resp: 551284
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 41.2
 88 14.9 0.0 29.6

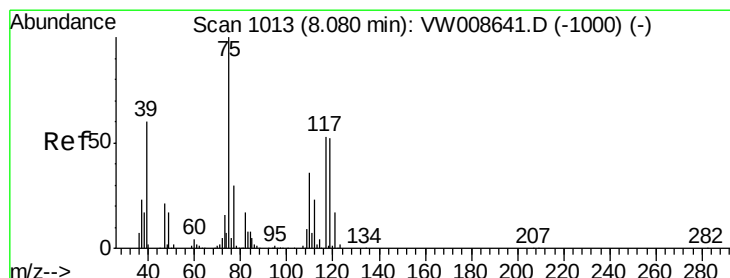
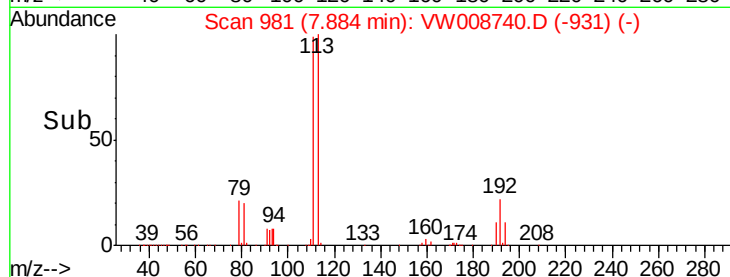
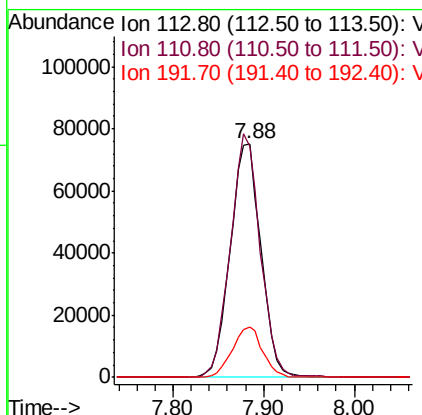
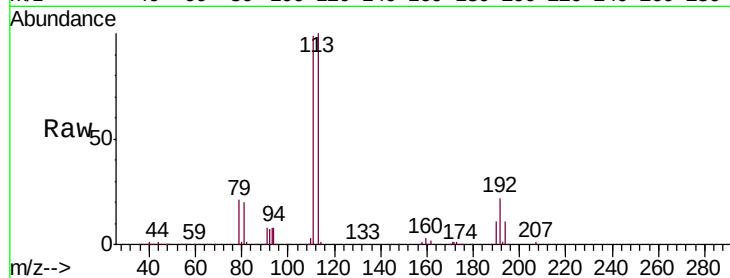




#35
 Dibromofluoromethane
 Concen: 51.520 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW008740.D
 Acq: 18 Feb 2019 20:27

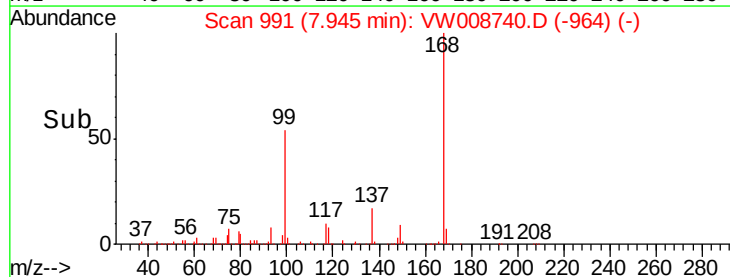
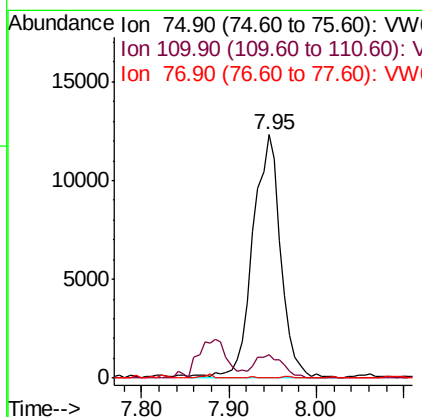
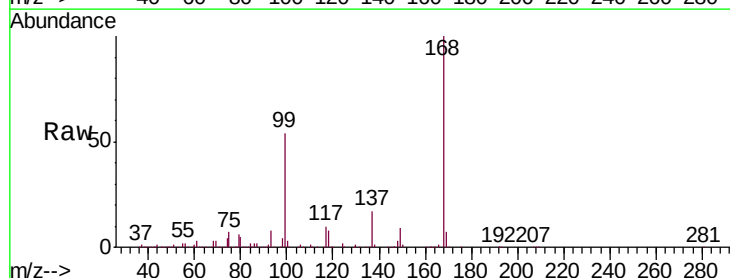
Instrument :
 MSVOA_W
 ClientSampled :
 TP-MH-C05

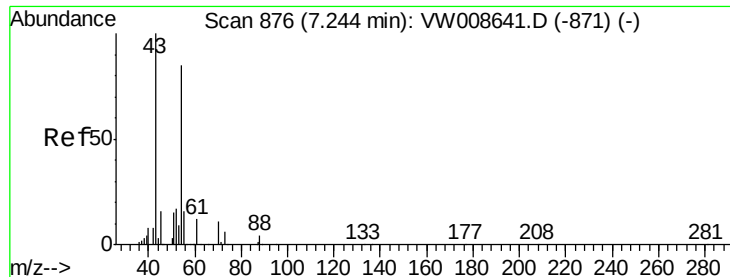
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	84.0	126.0
192	21.4	17.4	26.2



#36
 1,1-Dichloropropene
 Concen: 4.947 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008740.D
 Acq: 18 Feb 2019 20:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	17.8	53.3#
77	0.2	24.7	37.1#





#37

Ethyl Acetate

Concen: 7.893 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.07 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

TP-MH-C05

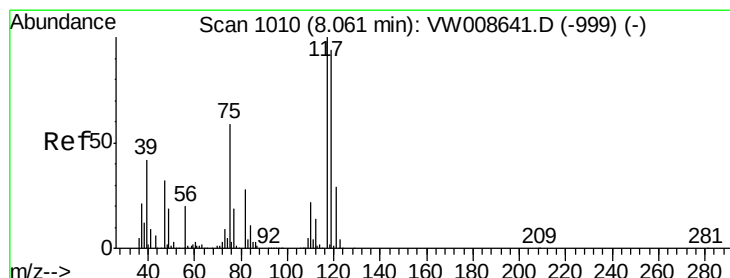
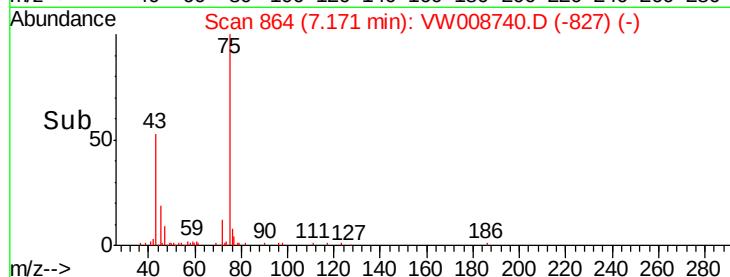
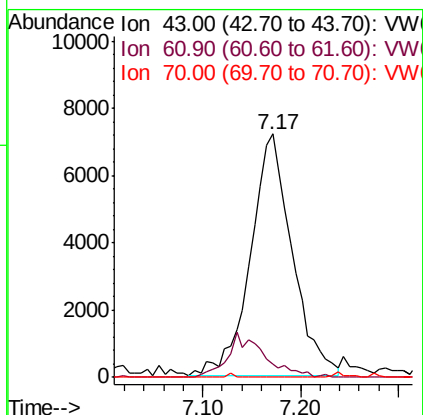
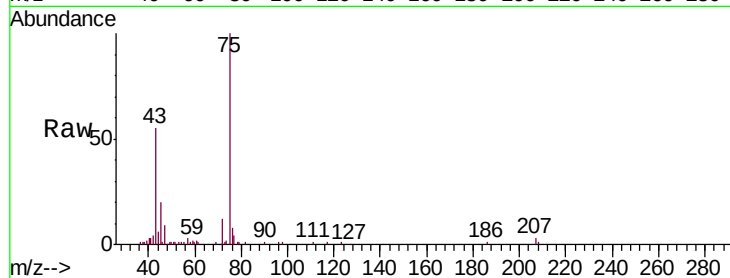
Tgt Ion: 43 Resp: 21088

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

70 0.0 8.1 12.1#



#38

Carbon Tetrachloride

Concen: 6.259 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

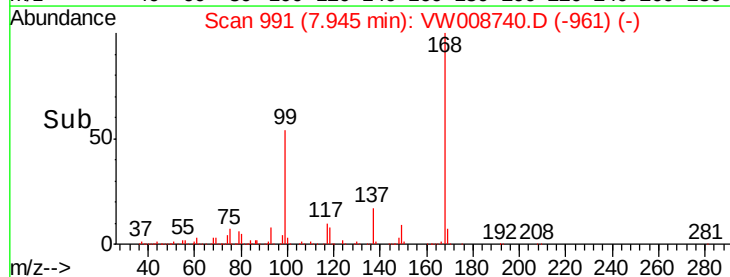
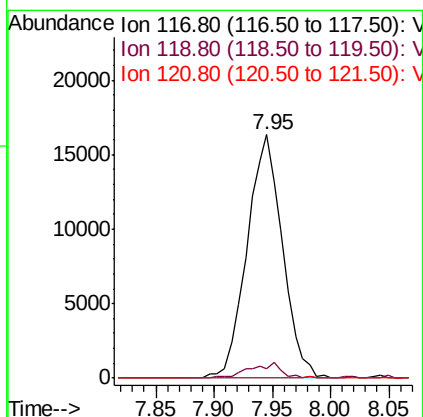
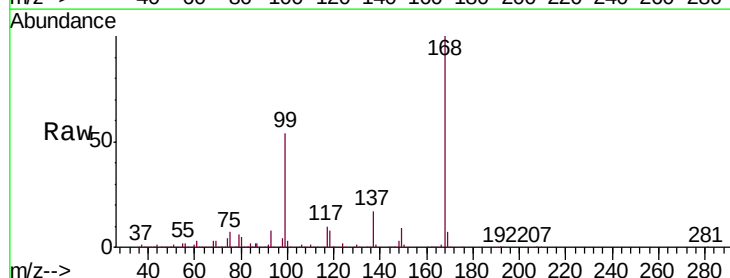
Tgt Ion: 117 Resp: 34472

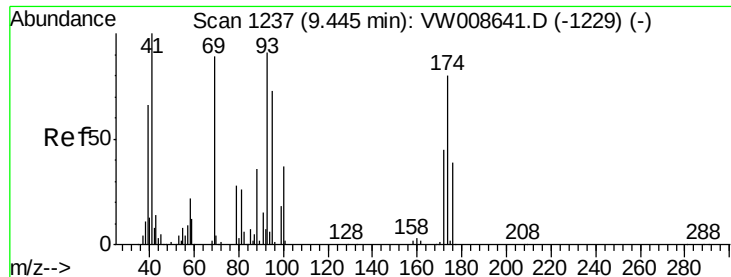
Ion Ratio Lower Upper

117 100

119 3.8 75.1 112.7#

121 0.0 23.5 35.3#





#49

1,4-Dioxane

Concen: 1.489 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

TP-MH-C05

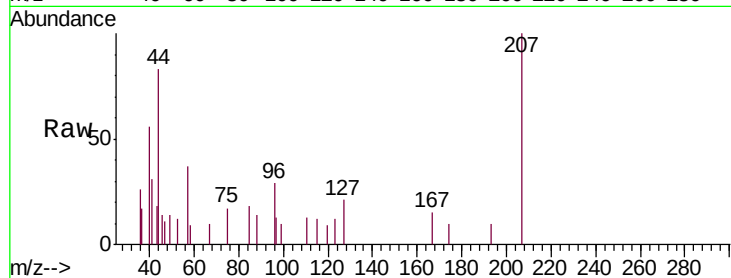
Tgt Ion: 88 Resp: 49

Ion Ratio Lower Upper

88 100

43 0.0 31.0 46.6#

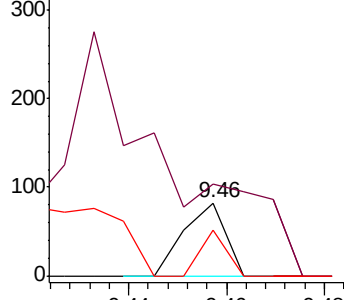
58 38.8 57.0 85.6#



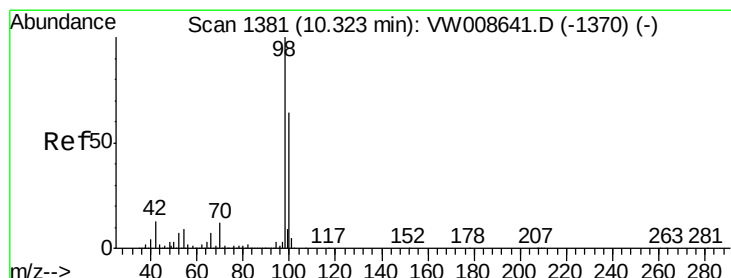
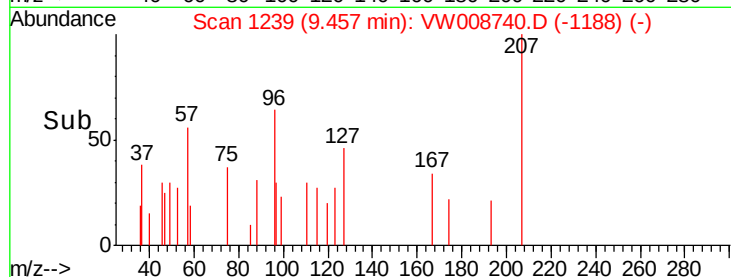
Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



Time-->



#50

Toluene-d8

Concen: 49.356 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008740.D

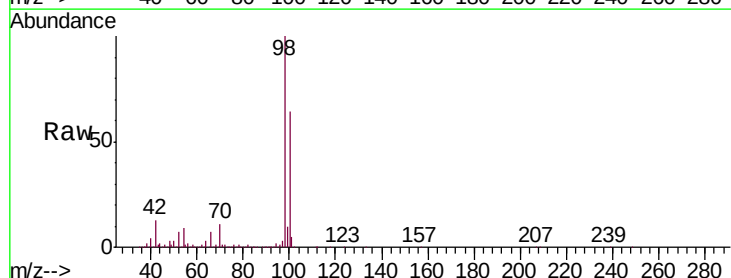
Acq: 18 Feb 2019 20:27

Tgt Ion: 98 Resp: 651292

Ion Ratio Lower Upper

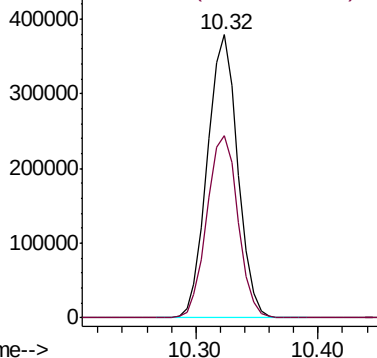
98 100

100 66.0 52.2 78.4

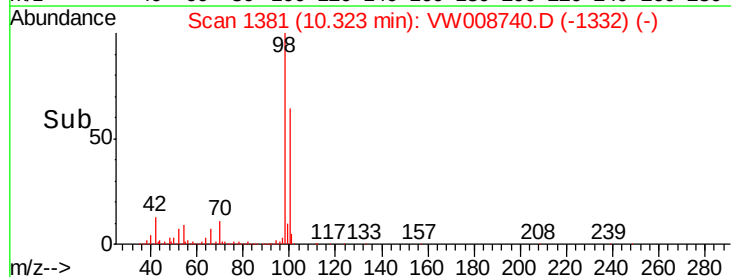


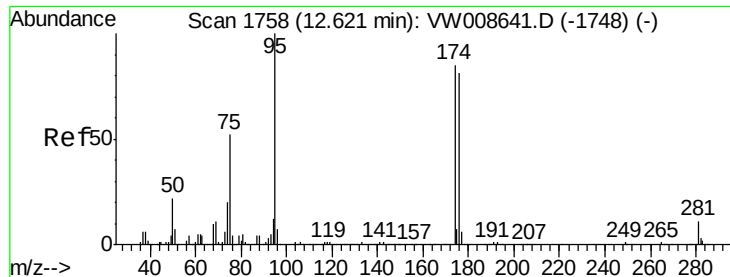
Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



Time-->





#62

4-Bromofluorobenzene

Concen: 45.013 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

TP-MH-C05

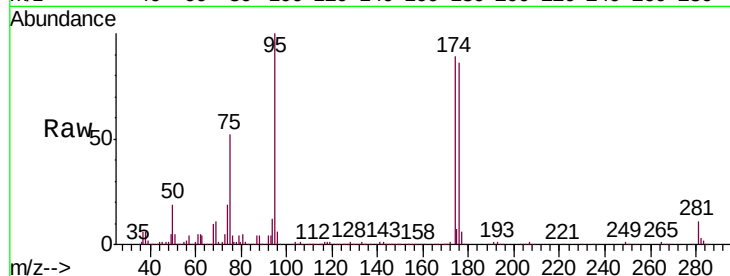
Tgt Ion: 95 Resp: 223733

Ion Ratio Lower Upper

95 100

174 87.1 0.0 163.2

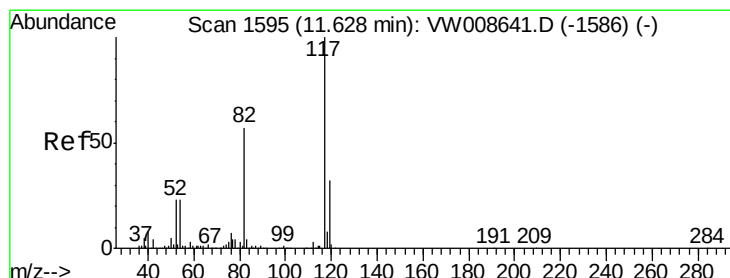
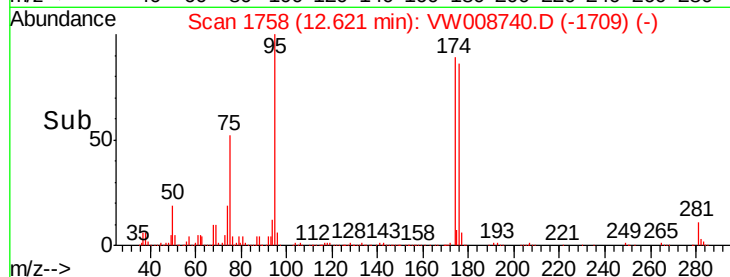
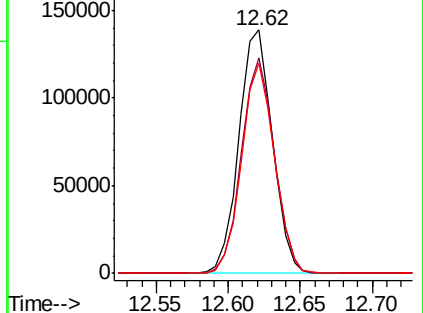
176 84.4 0.0 158.0



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

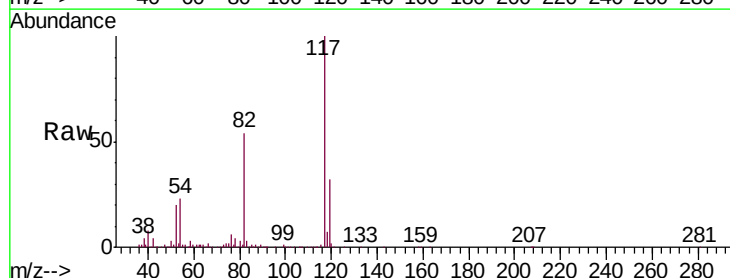
Tgt Ion: 117 Resp: 485569

Ion Ratio Lower Upper

117 100

82 53.9 45.6 68.4

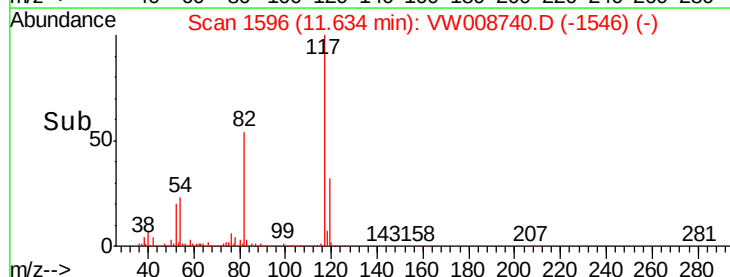
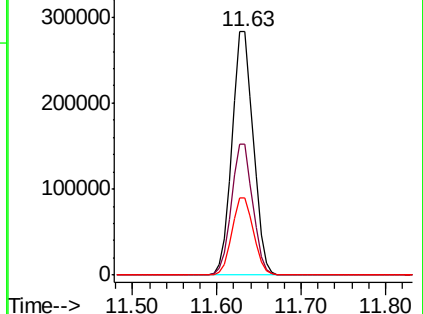
119 31.9 25.7 38.5

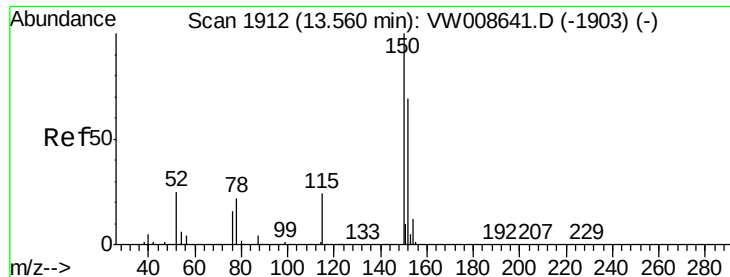


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

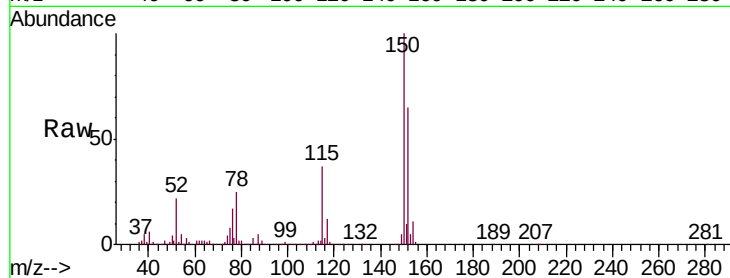




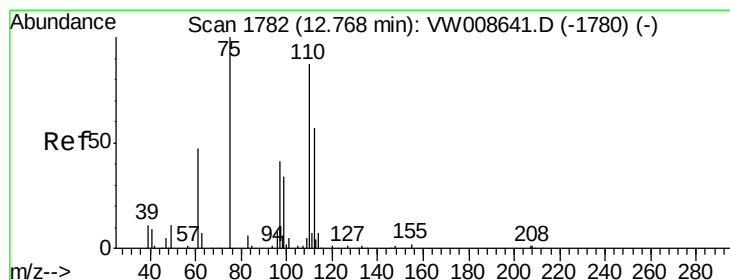
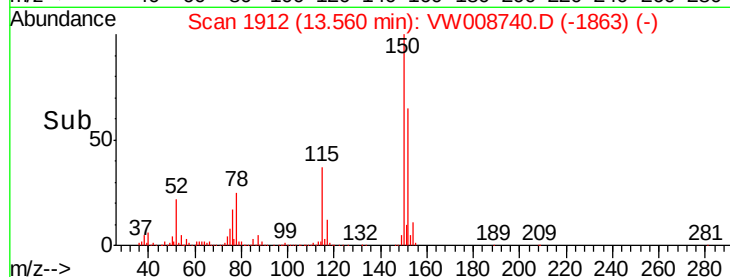
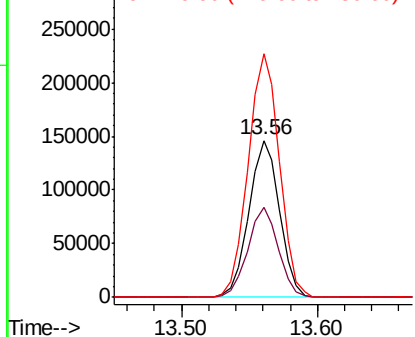
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW008740.D
 Acq: 18 Feb 2019 20:27

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-MH-C05

Tgt Ion: 152 Resp: 230475
 Ion Ratio Lower Upper
 152 100
 115 57.1 29.3 87.8
 150 158.6 0.0 352.8

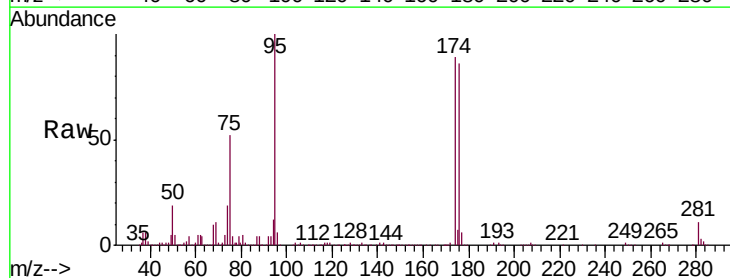


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

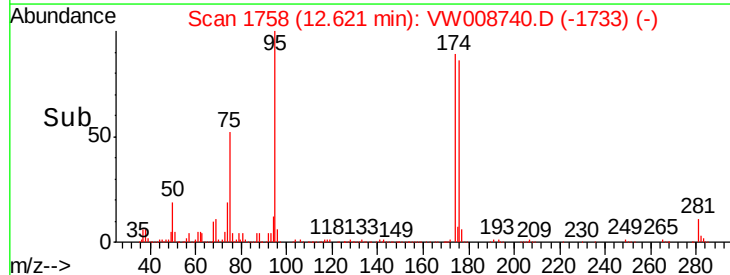
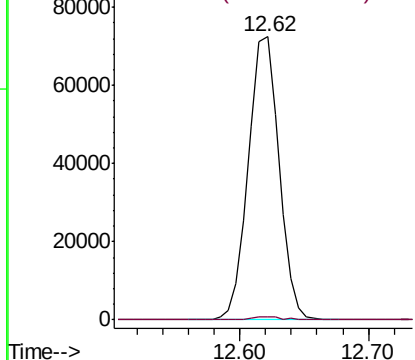


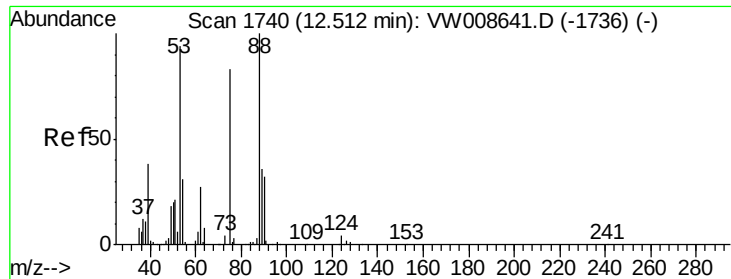
#76
 1,2,3-Trichloropropane
 Concen: 52.345 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008740.D
 Acq: 18 Feb 2019 20:27

Tgt Ion: 75 Resp: 119127
 Ion Ratio Lower Upper
 75 100
 77 1.4 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: 112.113 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008740.D

Acq: 18 Feb 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

TP-MH-C05

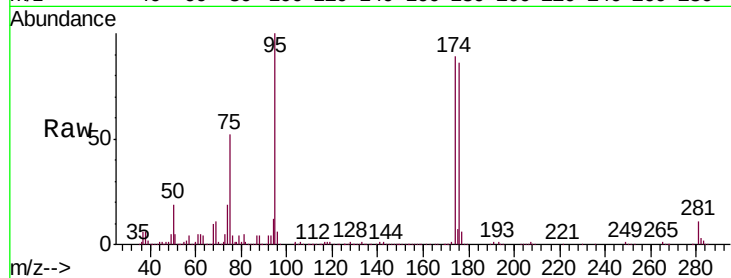
Tgt Ion: 75 Resp: 119127

Ion Ratio Lower Upper

75 100

53 0.3 87.4 131.0#

89 0.3 37.0 55.4#



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

