

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011619\
 Data File : VW008306.D
 Acq On : 16 Jan 2019 14:15
 Operator : SY/VA
 Sample : K1147-19RE
 Misc : 8.40G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-7RE

Quant Time: Jan 17 05:02:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 04:40:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	16683	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	24957	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	23489	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	9710	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	9657	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
35) Dibromofluoromethane	7.88	113	8978	61.68	ug/l	0.00
Spiked Amount			Recovery	=	123.36%	
50) Toluene-d8	10.32	98	31777	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
62) 4-Bromofluorobenzene	12.62	95	10351	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	

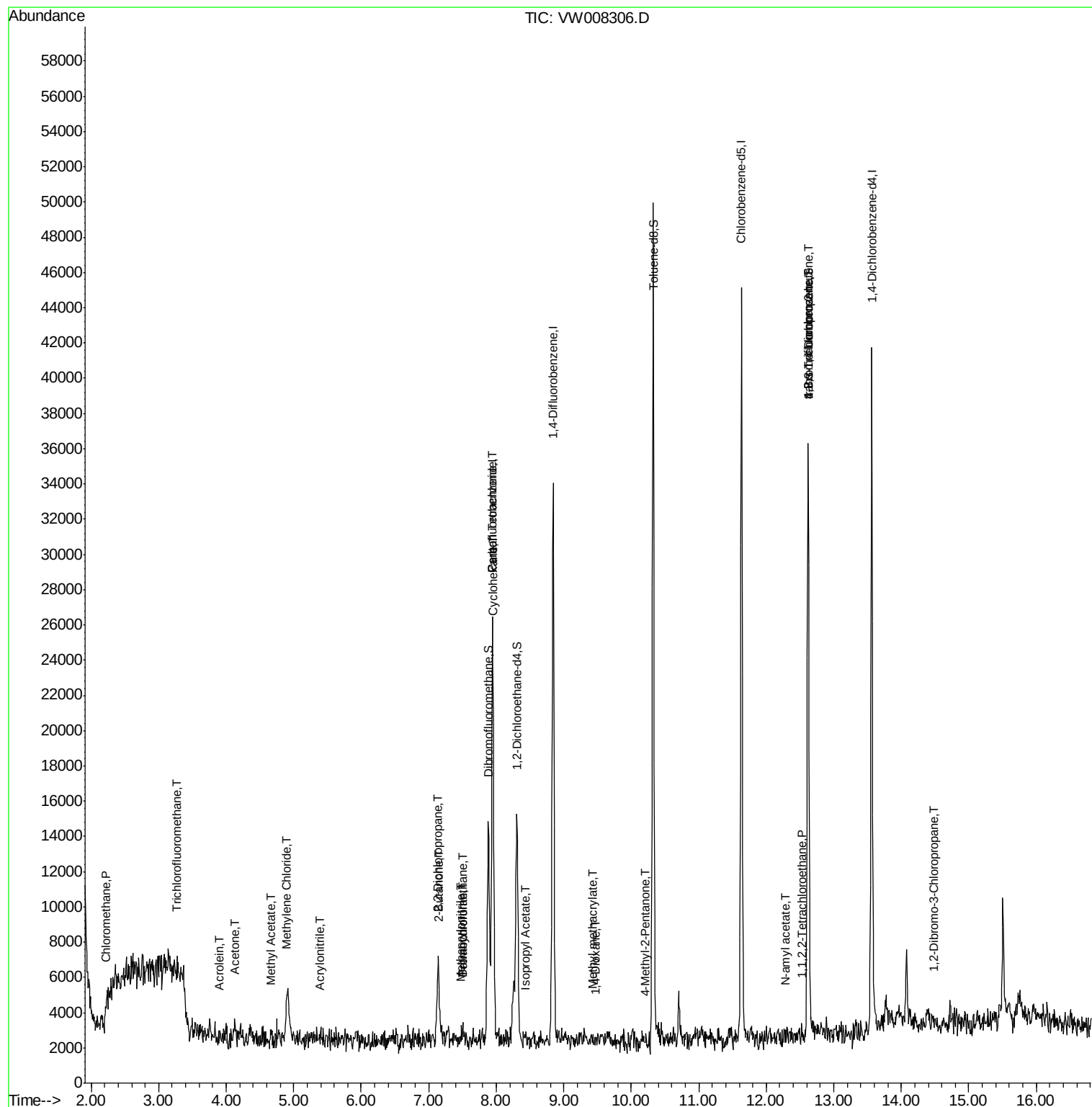
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	239	1.353	ug/l #	41
7) Trichlorofluoromethane	3.27	101	207	1.104	ug/l #	52
11) Tert butyl alcohol	5.32	59	53	Below Cal	#	100
13) Acrolein	3.90	56	39	1.637	ug/l #	1
15) Acrylonitrile	5.38	53	60	1.487	ug/l #	17
16) Acetone	4.13	43	2317	51.995	ug/l #	88
18) Methyl Acetate	4.65	43	236	1.991	ug/l	92
20) Methylene Chloride	4.90	84	2422	9.196	ug/l #	67
25) 2-Butanone	7.15	43	181	3.469	ug/l #	39
26) 2,2-Dichloropropane	7.14	77	434	1.738	ug/l #	53
28) Bromochloromethane	7.51	49	151	1.036	ug/l #	18
29) Tetrahydrofuran	7.51	42	275	7.891	ug/l #	56
31) Cyclohexane	7.96	56	525	1.330	ug/l #	79
38) Carbon Tetrachloride	7.95	117	1879	7.985	ug/l #	12
41) Methacrylonitrile	7.48	41	115	1.768	ug/l #	1
43) Isopropyl Acetate	8.43	43	238	1.156	ug/l #	51
48) Methyl methacrylate	9.43	41	237	2.439	ug/l #	24
49) 1,4-Dioxane	9.47	88	52	38.081	ug/l #	51
51) 4-Methyl-2-Pentanone	10.20	43	192	1.926	ug/l	99
74) N-amyl acetate	12.29	43	219	1.297	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.52	83	150	1.229	ug/l	75
76) 1,2,3-Trichloropropane	12.62	75	4758	53.752	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	4758	125.173	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.48	75	41	2.088	ug/l #	39

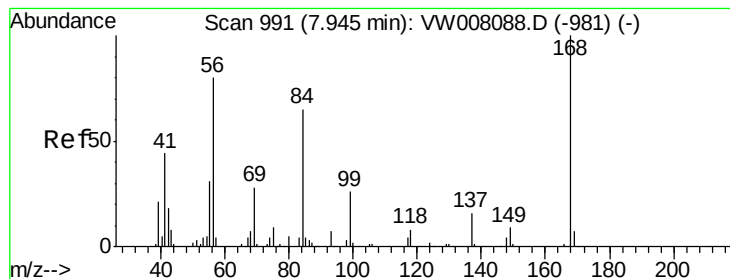
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 17 05:02:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 04:40:48 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: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

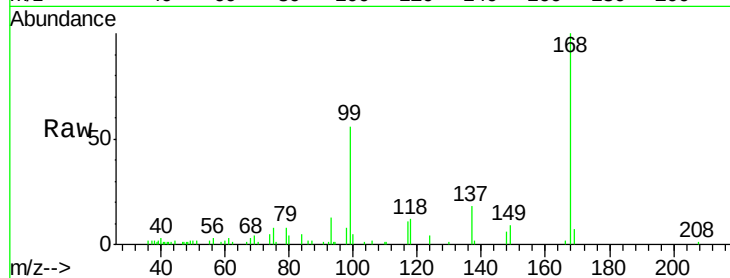
TP-7RE

Tot Ion:168 Resp: 16683

Ion Ratio Lower Upper

168 100

99 56.1 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

8000

6000

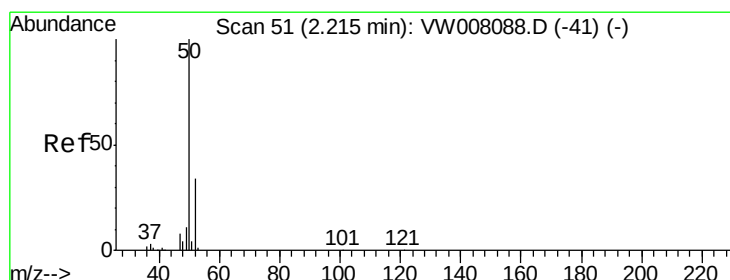
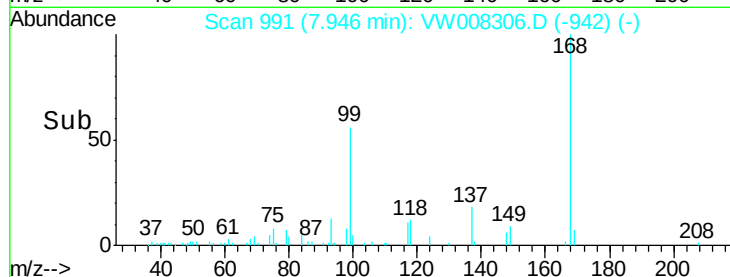
4000

2000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#3

Chloromethane

Concen: 1.353 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW008306.D

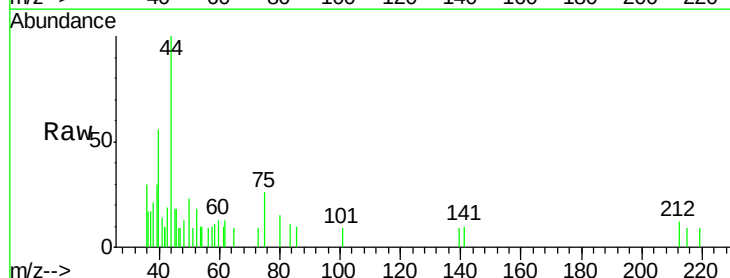
Acq: 16 Jan 2019 14:15

Tgt Ion: 50 Resp: 239

Ion Ratio Lower Upper

50 100

52 0.0 26.8 40.2#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

150

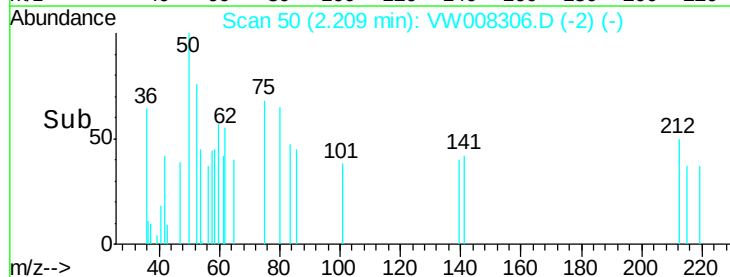
100

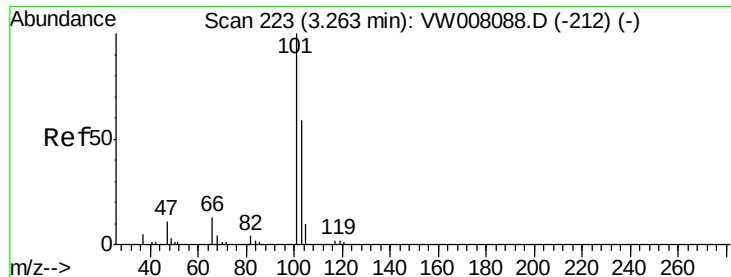
50

0

2.16 2.18 2.20 2.22 2.24

Time-->



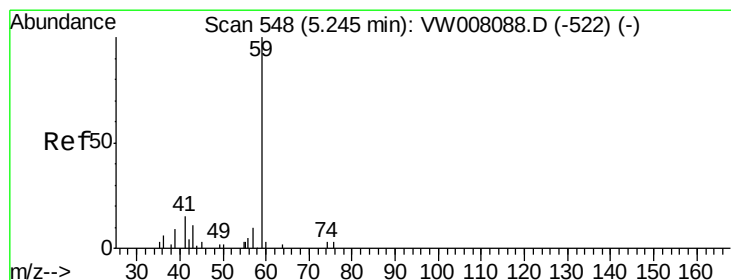
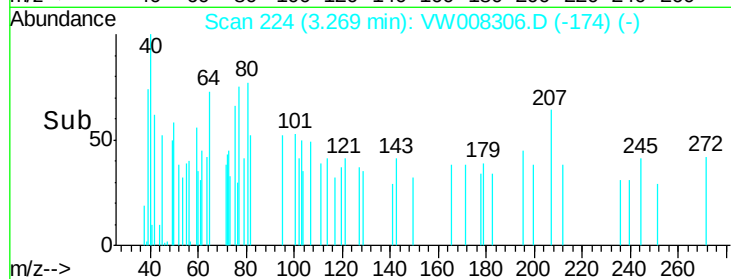
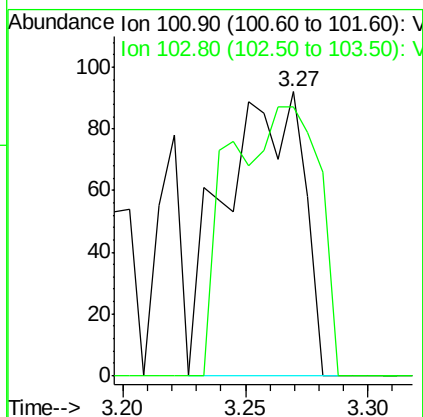
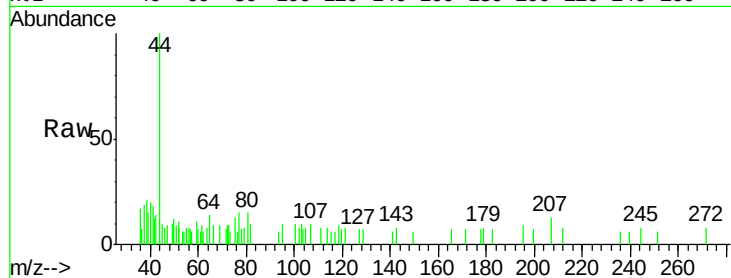


#7

Trichlorofluoromethane
 Concen: 1.104 ug/l
 RT: 3.27 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VW008306.D
 Acq: 16 Jan 2019 14:15

Instrument :
 MSVOA_W
 ClientSampled :
 TP-7RE

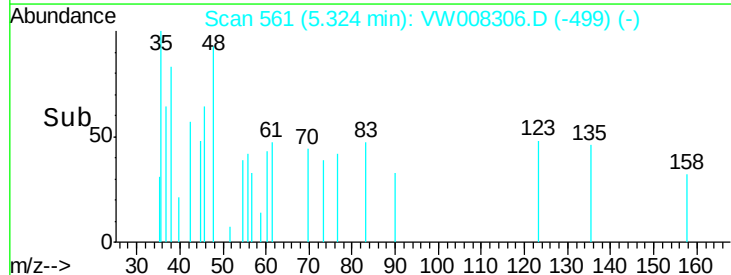
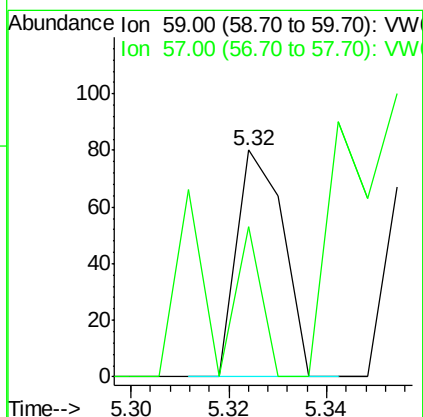
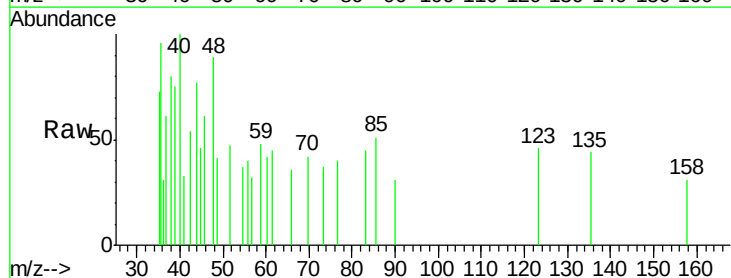
Tot Ion:101 Resp: 207
 Ion Ratio Lower Upper
 101 100
 103 94.6 47.0 70.6#

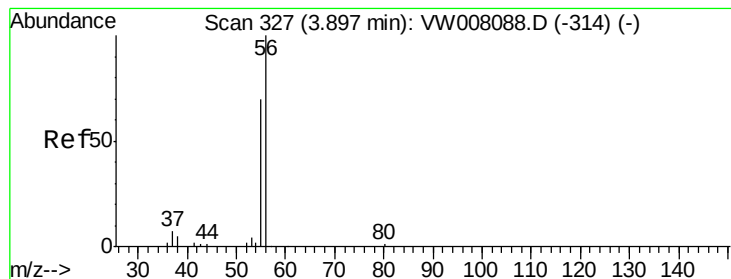


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.32 min Scan# 561
 Delta R.T. 0.08 min
 Lab File: VW008306.D
 Acq: 16 Jan 2019 14:15

Tgt Ion: 59 Resp: 53
 Ion Ratio Lower Upper
 59 100
 57 83.0 0.0 0.0#





#13

Acrolein

Concen: 1.637 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.00 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

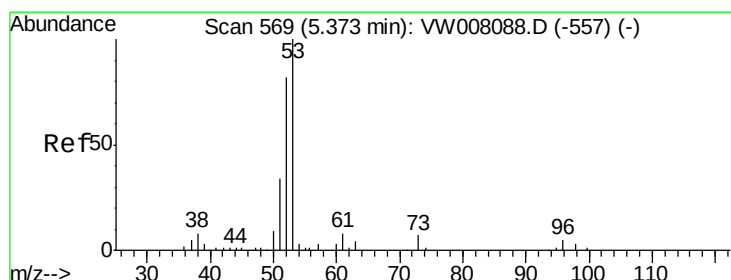
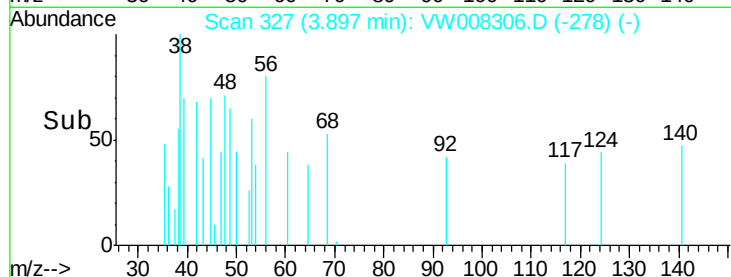
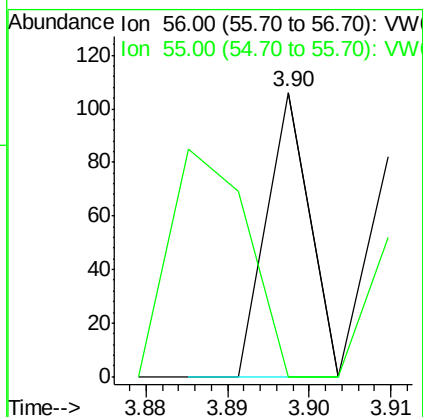
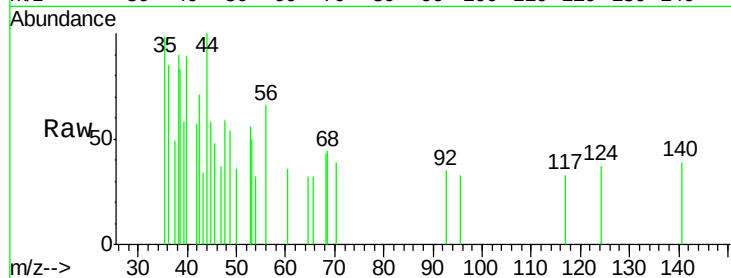
TP-7RE

Tot Ion: 56 Resp: 39

Ion Ratio Lower Upper

56 100

55 192.3 56.6 84.8#



#15

Acrylonitrile

Concen: 1.487 ug/l

RT: 5.38 min Scan# 571

Delta R.T. 0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

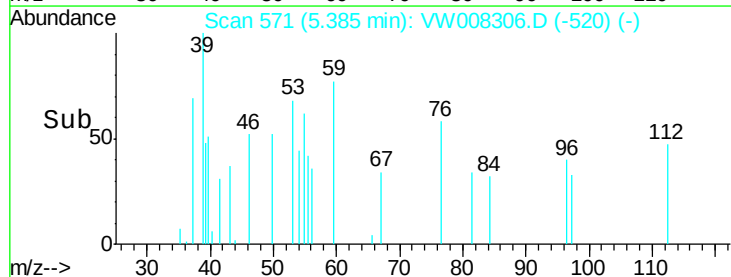
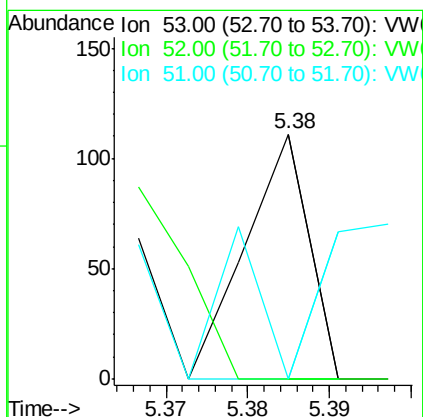
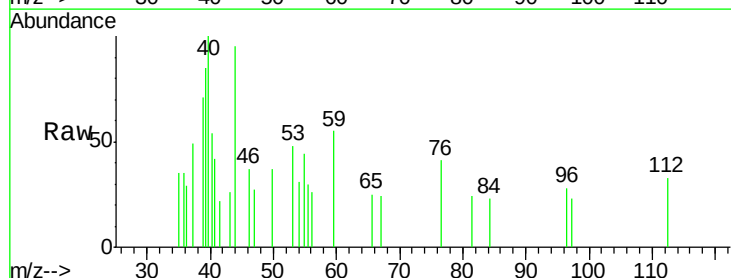
Tgt Ion: 53 Resp: 60

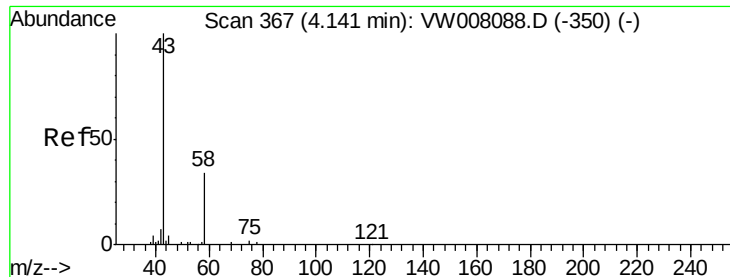
Ion Ratio Lower Upper

53 100

52 0.0 66.8 100.2#

51 0.0 29.7 44.5#





#16

Acetone

Concen: 51.995 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

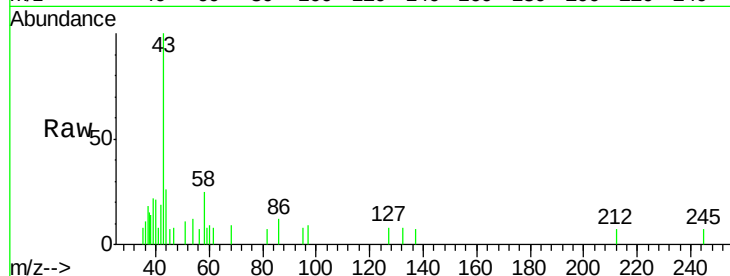
TP-7RE

Tot Ion: 43 Resp: 2317

Ion Ratio Lower Upper

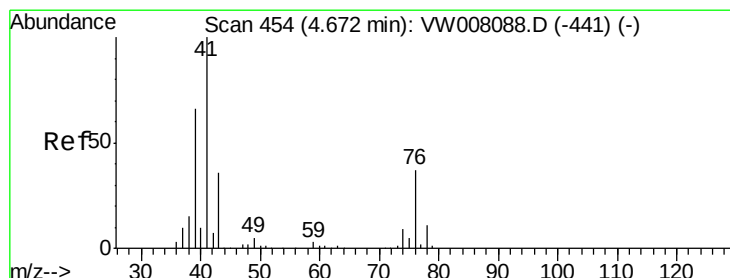
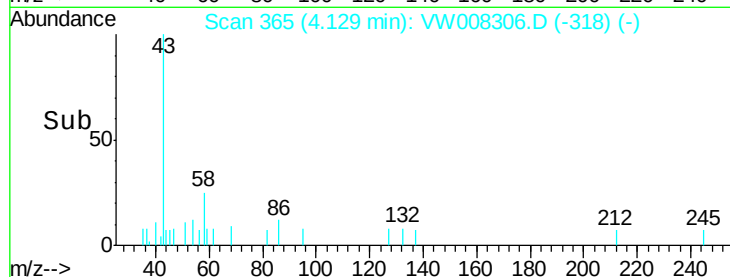
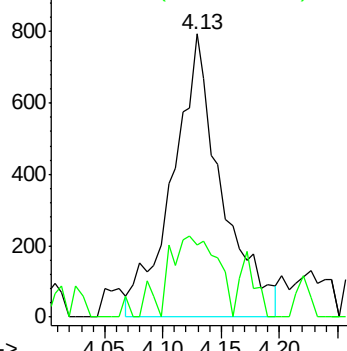
43 100

58 27.3 27.5 41.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 1.991 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.02 min

Lab File: VW008306.D

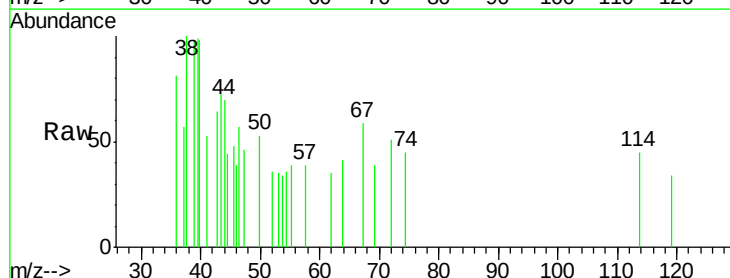
Acq: 16 Jan 2019 14:15

Tgt Ion: 43 Resp: 236

Ion Ratio Lower Upper

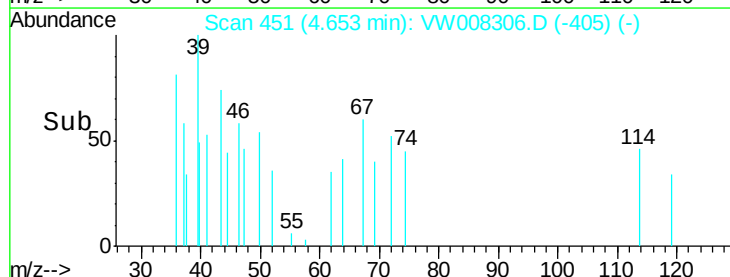
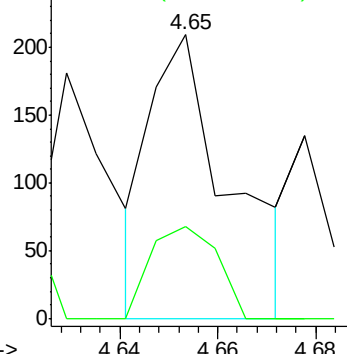
43 100

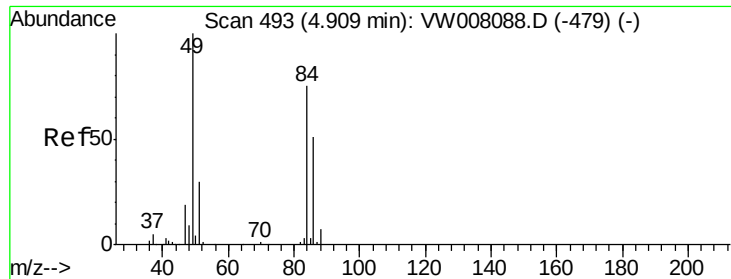
74 27.5 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

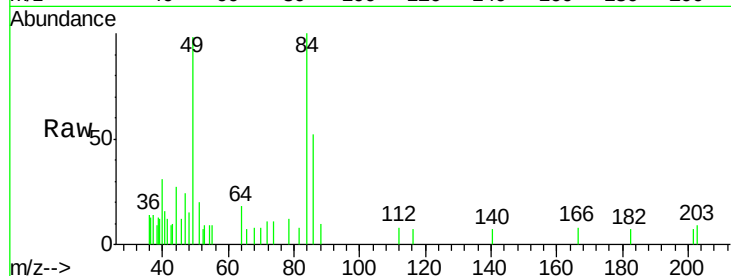




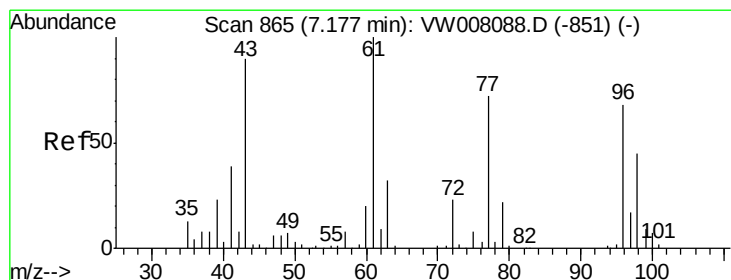
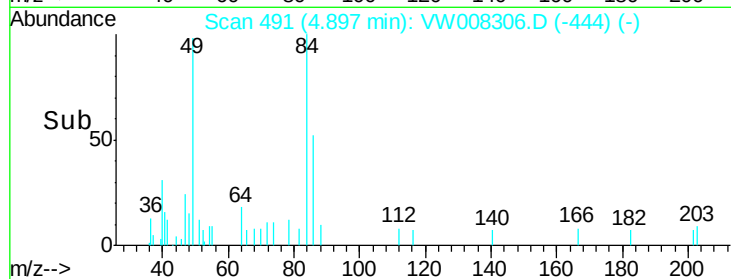
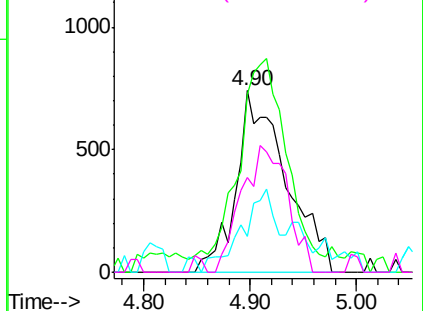
#20
Methylene Chloride
Concen: 9.196 ug/l
RT: 4.90 min Scan# 491
Delta R.T. -0.01 min
Lab File: VW008306.D
Acq: 16 Jan 2019 14:15

Instrument :
MSVOA_W
ClientSampleId :
TP-7RE

Tot Ion: 84 Resp: 2422
Ion Ratio Lower Upper
84 100
49 90.8 107.1 160.7#
51 11.8 32.4 48.6#
86 52.2 54.2 81.4#

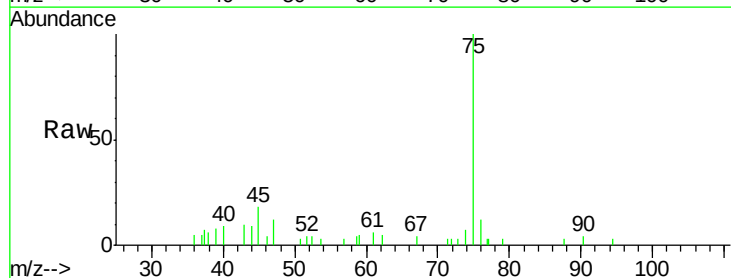


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

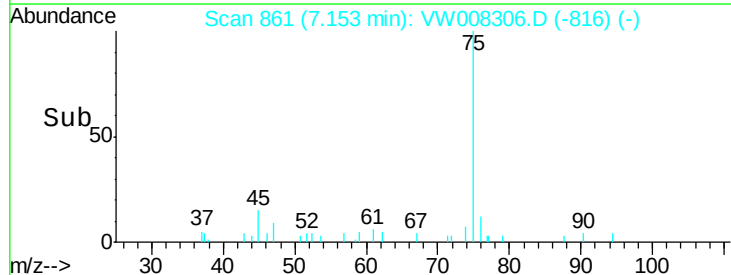
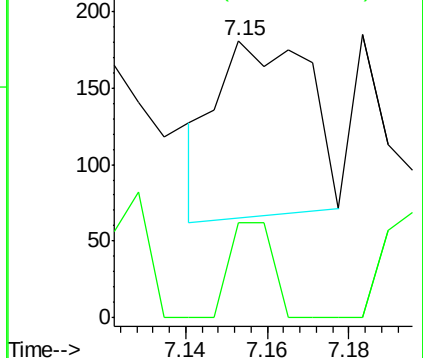


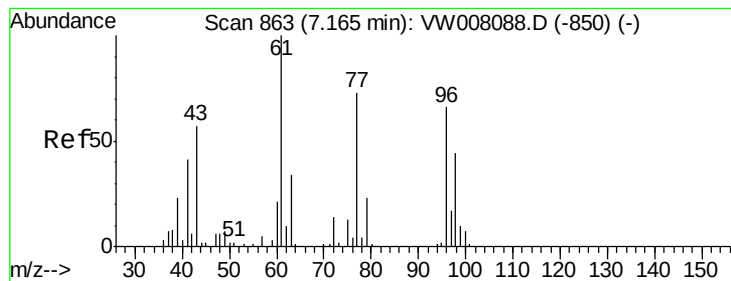
#25
2-Butanone
Concen: 3.469 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.02 min
Lab File: VW008306.D
Acq: 16 Jan 2019 14:15

Tgt Ion: 43 Resp: 181
Ion Ratio Lower Upper
43 100
72 56.4 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 1.738 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

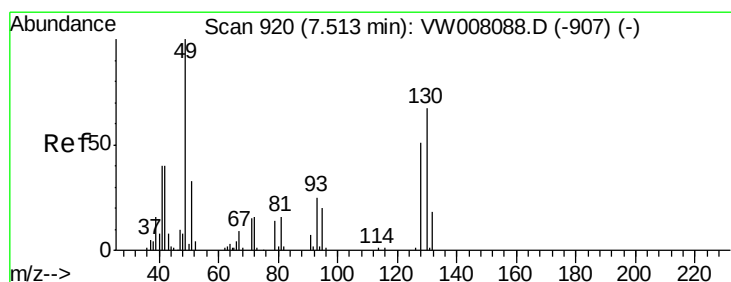
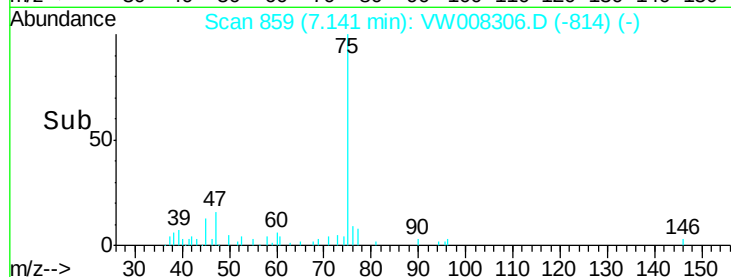
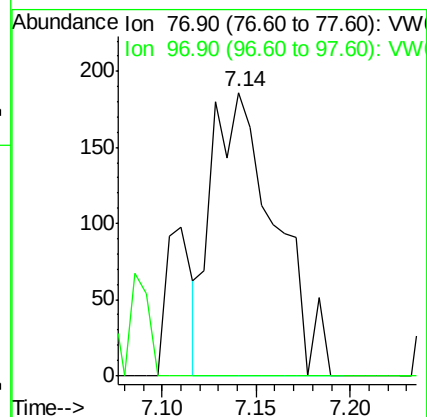
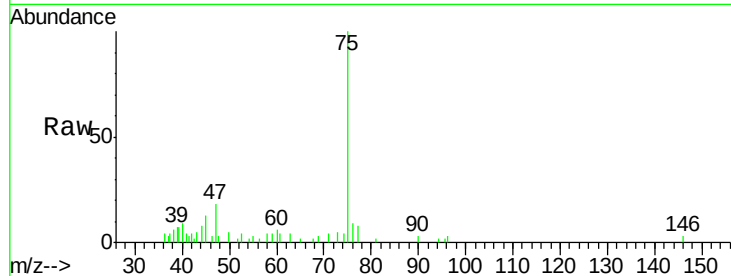
TP-7RE

Tot Ion: 77 Resp: 434

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.1#



#28

Bromochloromethane

Concen: 1.036 ug/l

RT: 7.51 min Scan# 919

Delta R.T. -0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

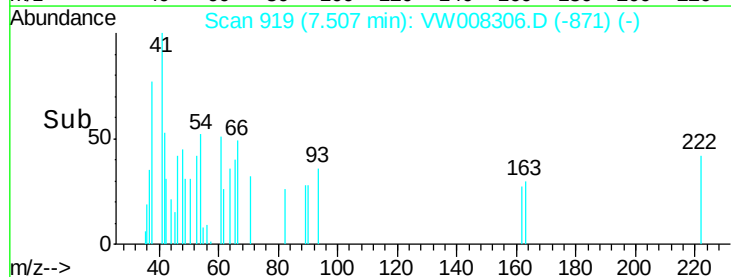
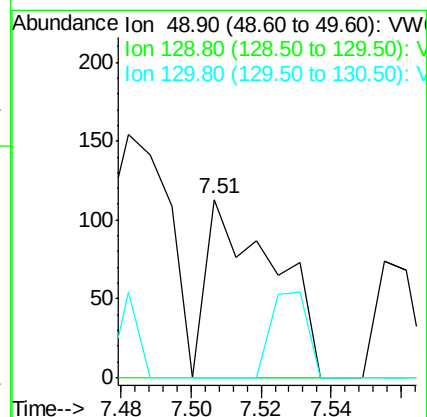
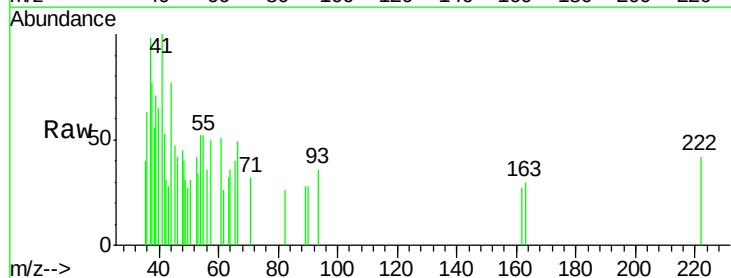
Tgt Ion: 49 Resp: 151

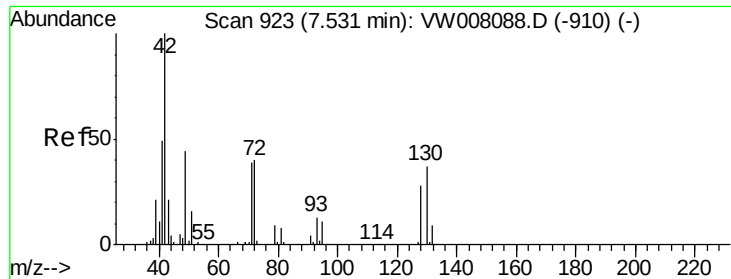
Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.8

130 0.0 54.3 81.5#

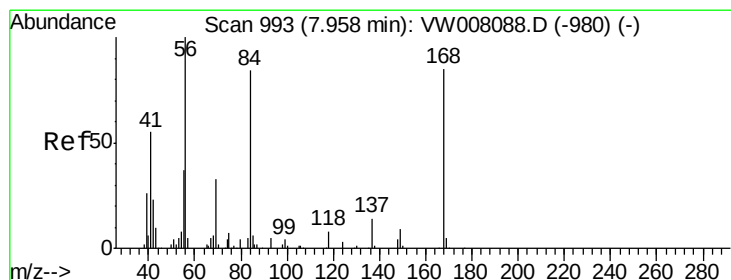
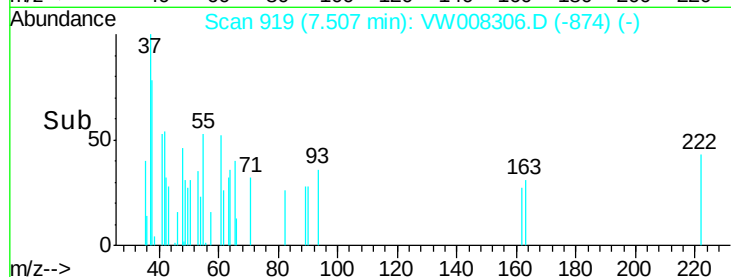
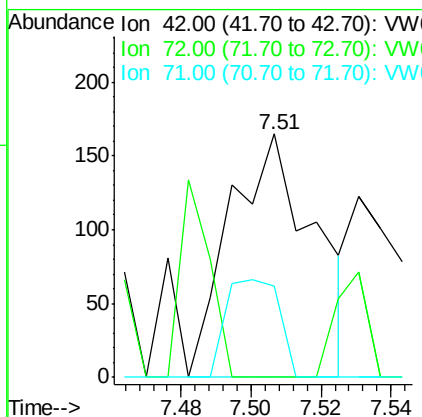
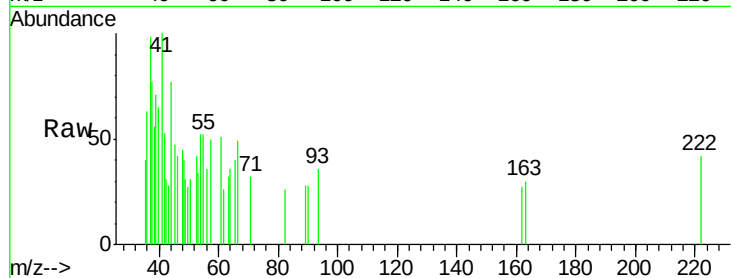




#29
Tetrahydrofuran
Concen: 7.891 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.02 min
Lab File: VW008306.D
Acq: 16 Jan 2019 14:15

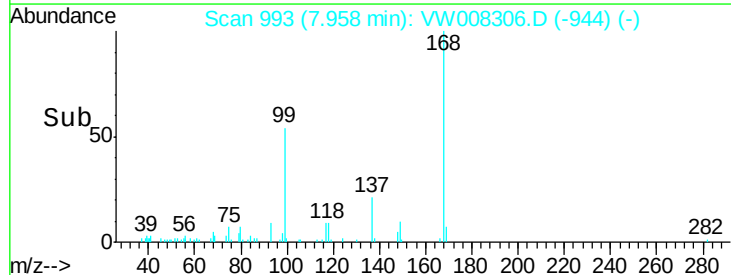
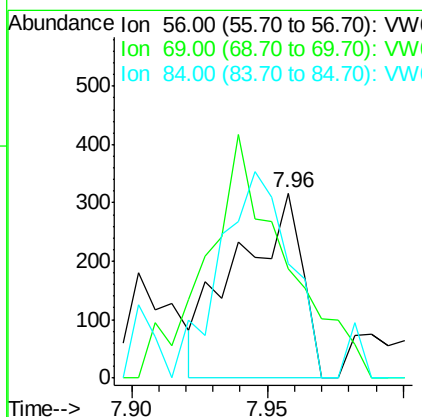
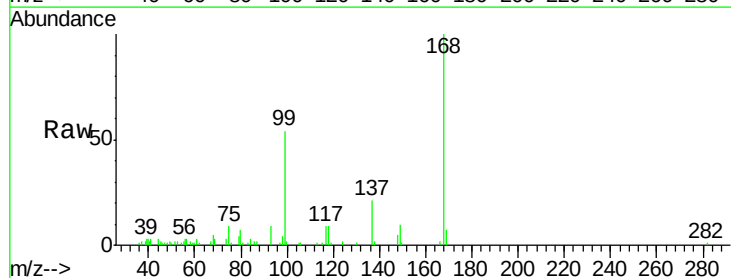
Instrument :
MSVOA_W
ClientSampled :
TP-7RE

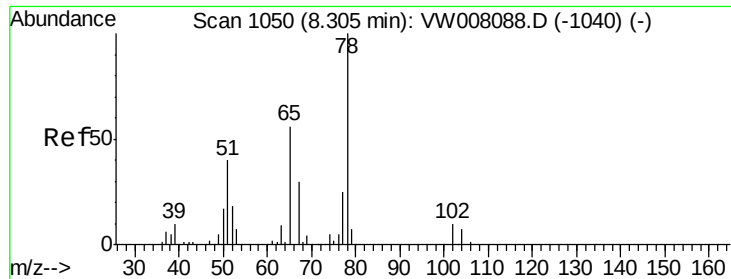
Tot Ion: 42 Resp: 275
Ion Ratio Lower Upper
42 100
72 0.0 32.4 48.6#
71 25.5 31.3 46.9#



#31
Cyclohexane
Concen: 1.330 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: VW008306.D
Acq: 16 Jan 2019 14:15

Tgt Ion: 56 Resp: 525
Ion Ratio Lower Upper
56 100
69 27.1 26.2 39.4
84 61.5 67.4 101.2#





#33

1,2-Dichloroethane-d4

Concen: 51.503 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

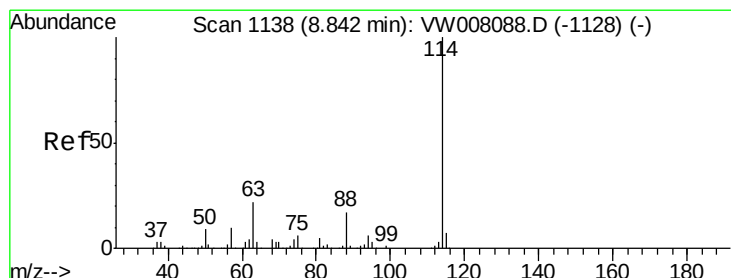
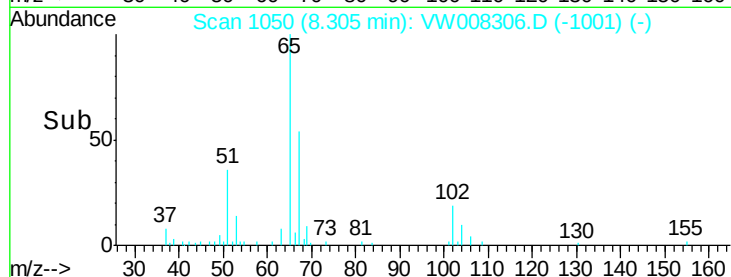
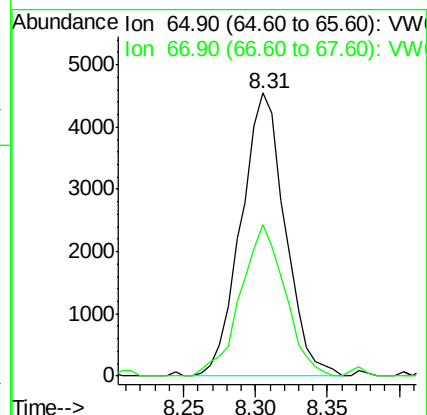
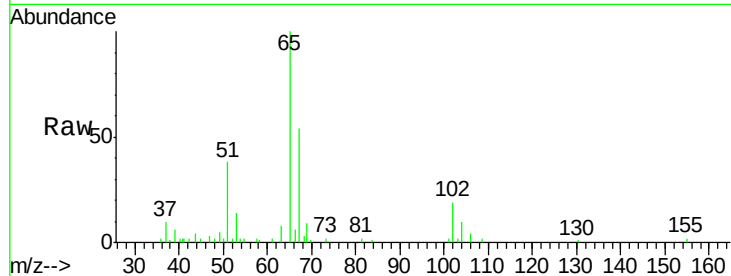
TP-7RE

Tot Ion: 65 Resp: 9657

Ion Ratio Lower Upper

65 100

67 54.0 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

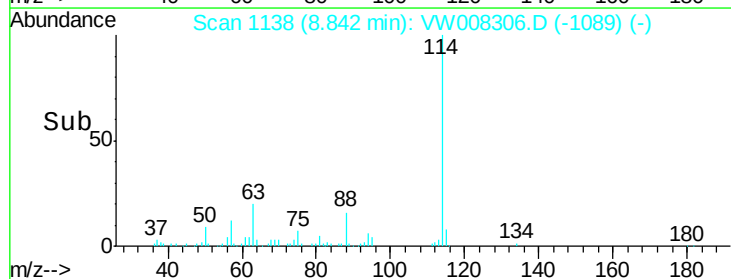
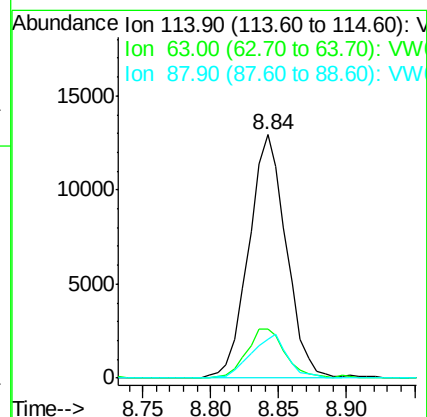
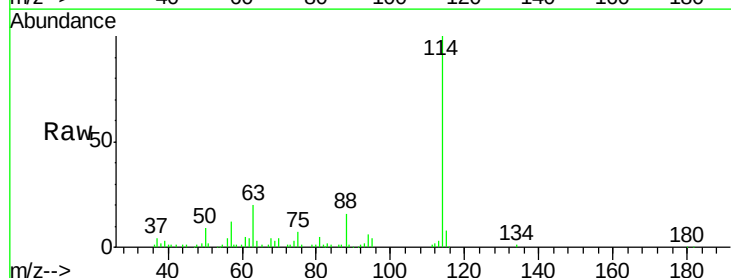
Tgt Ion: 114 Resp: 24957

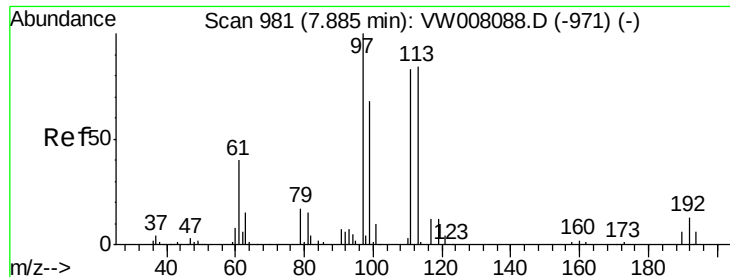
Ion Ratio Lower Upper

114 100

63 20.1 0.0 43.4

88 15.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 61.680 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

TP-7RE

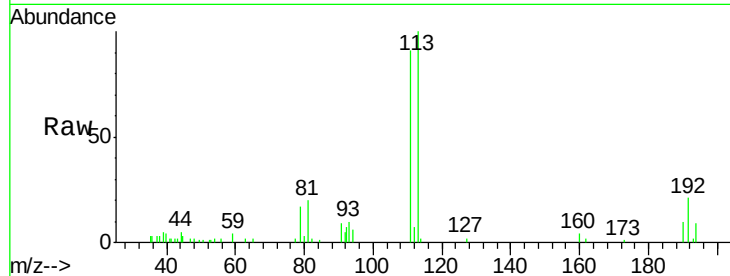
Tot Ion:113 Resp: 8978

Ion Ratio Lower Upper

113 100

111 98.2 81.8 122.8

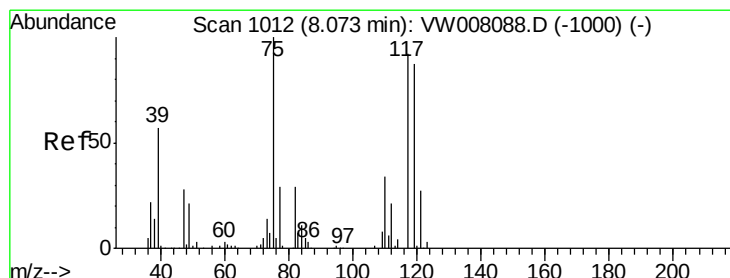
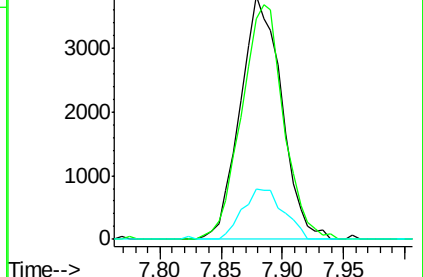
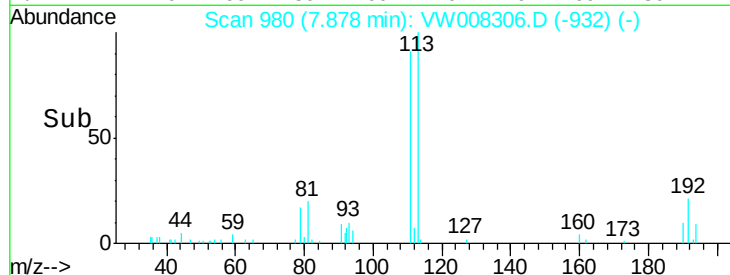
192 20.4 12.8 19.2#



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



#38

Carbon Tetrachloride

Concen: 7.985 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

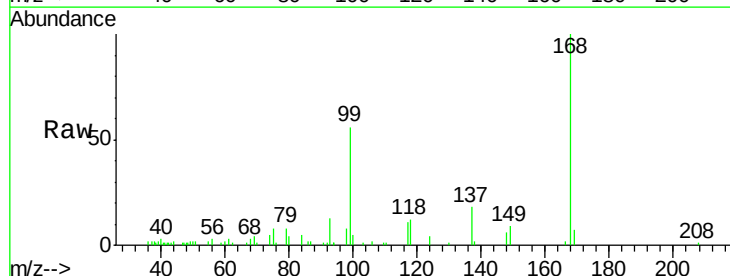
Tgt Ion:117 Resp: 1879

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

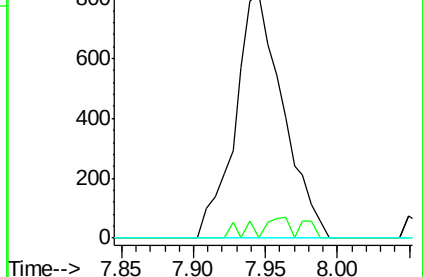
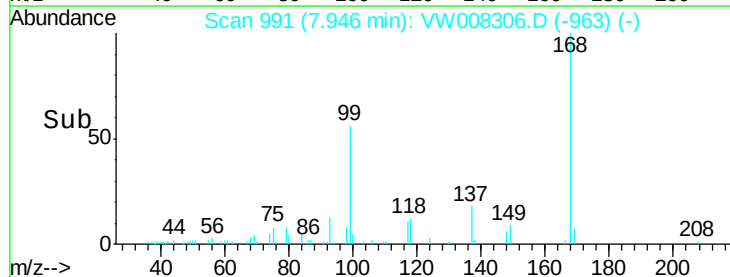
121 0.0 23.7 35.5#

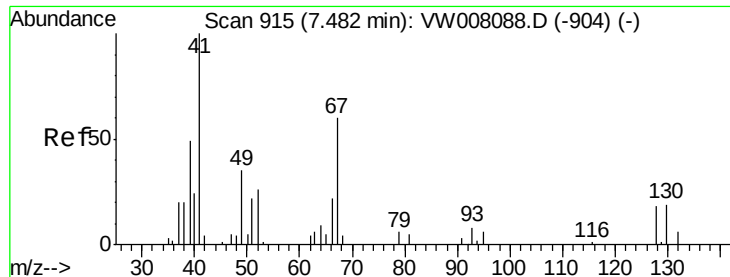


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 1.768 ug/l

RT: 7.48 min Scan# 914

Delta R.T. -0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

TP-7RE

Tot Ion: 41 Resp: 115

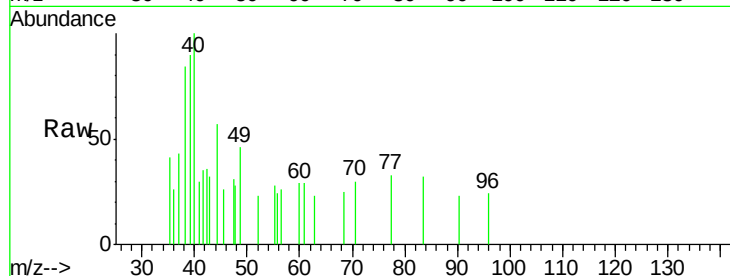
Ion Ratio Lower Upper

41 100

39 532.2 47.9 71.9#

67 0.0 56.3 84.5#

52 0.0 24.5 36.7#

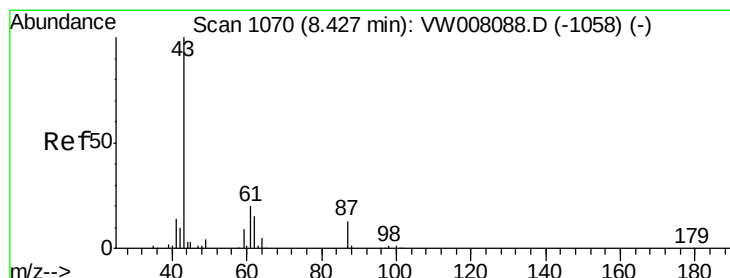
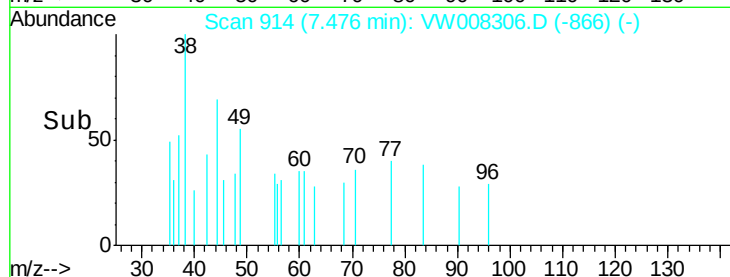
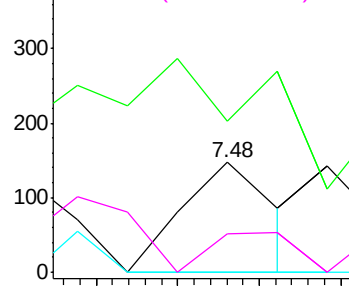


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#43

Isopropyl Acetate

Concen: 1.156 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

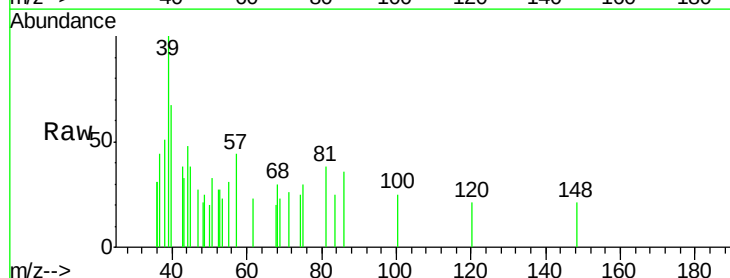
Tgt Ion: 43 Resp: 238

Ion Ratio Lower Upper

43 100

61 0.0 24.8 37.2#

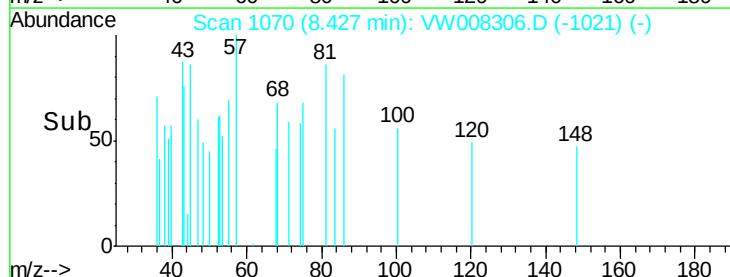
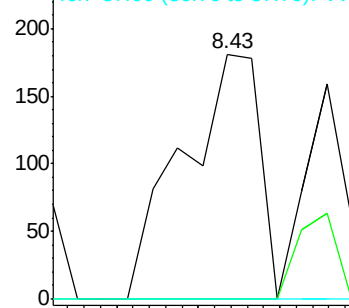
87 0.0 10.4 15.6#

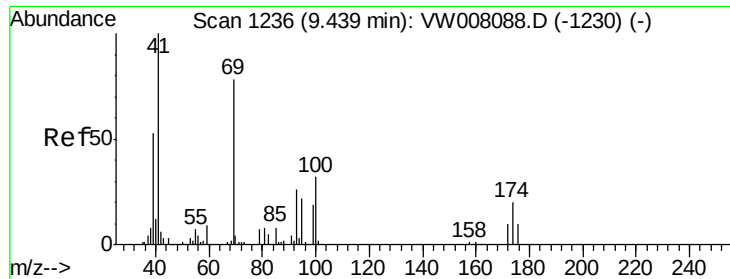


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW





#48

Methyl methacrylate

Concen: 2.439 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

TP-7RE

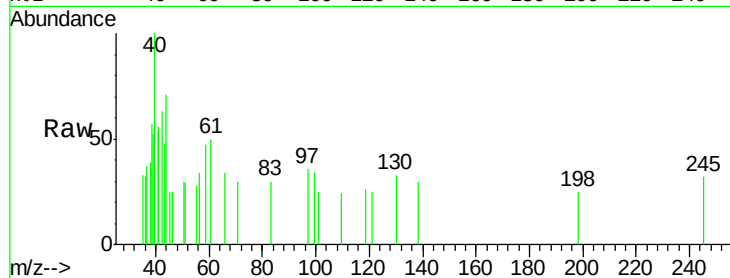
Tot Ion: 41 Resp: 237

Ion Ratio Lower Upper

41 100

69 0.0 61.9 92.9#

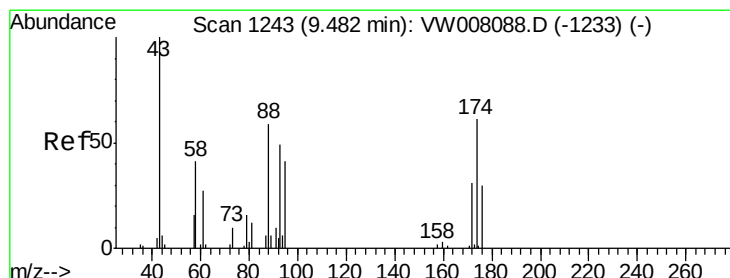
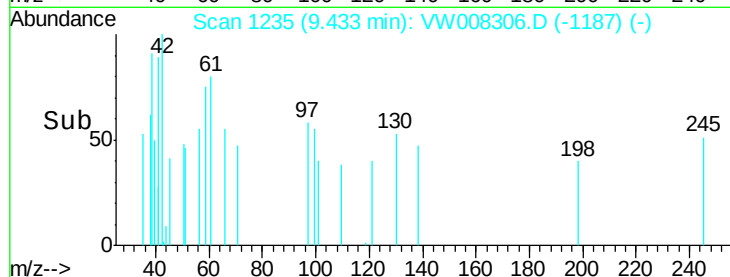
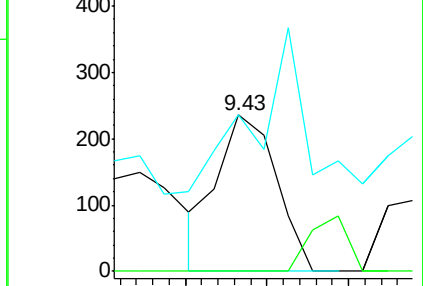
39 93.7 43.0 64.4#



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW



#49

1,4-Dioxane

Concen: 38.081 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. -0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

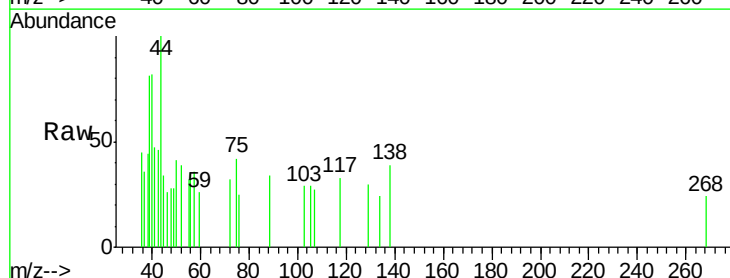
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 246.2 0.0 0.0#

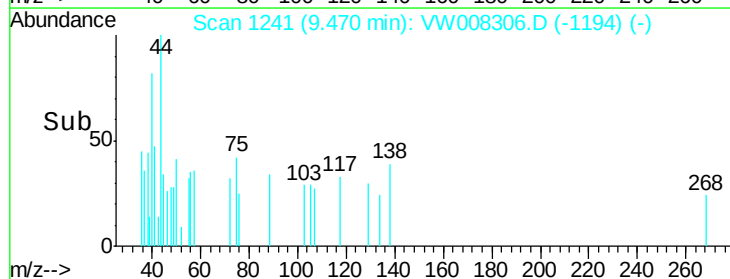
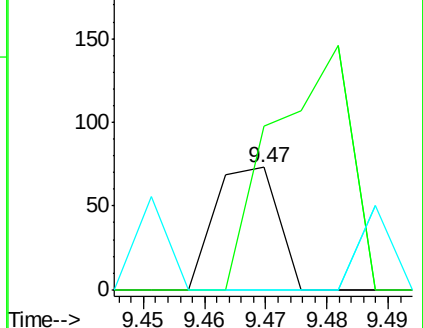
58 34.6 61.7 92.5#

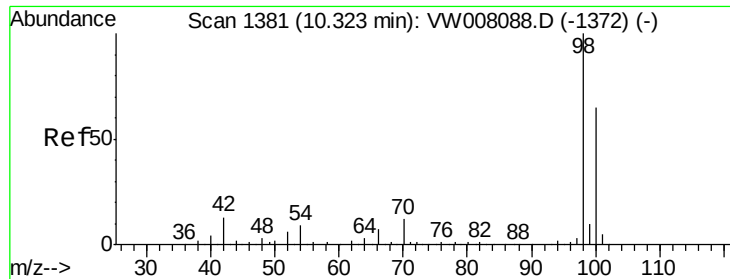


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

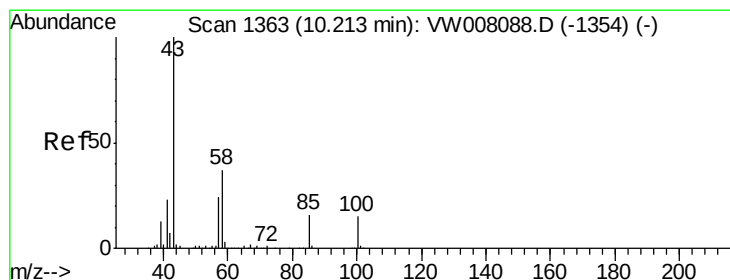
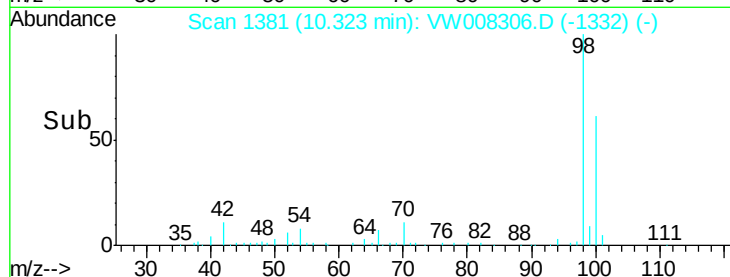
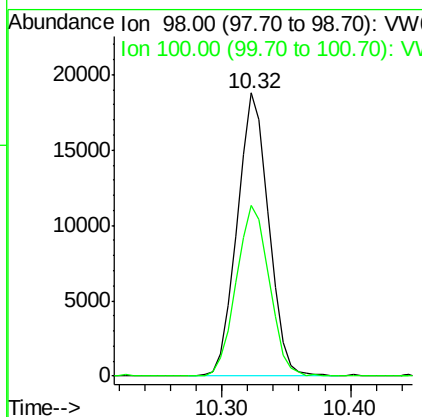
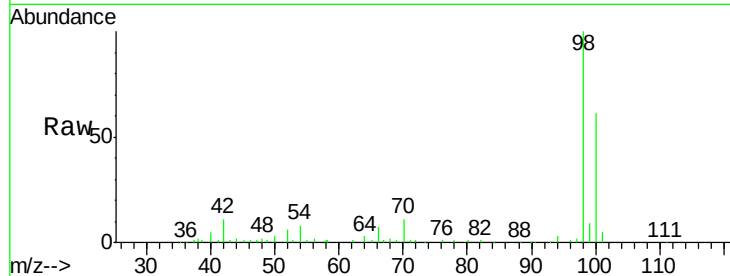




#50
Toluene-d8
Concen: 52.023 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008306.D
Acq: 16 Jan 2019 14:15

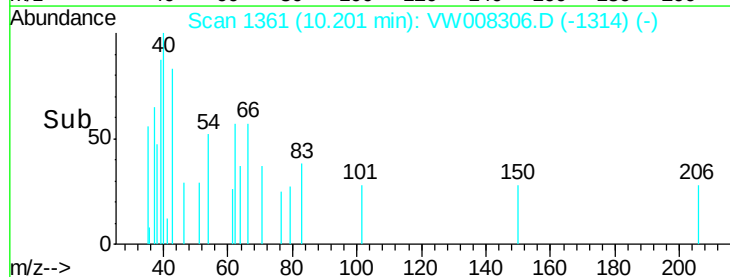
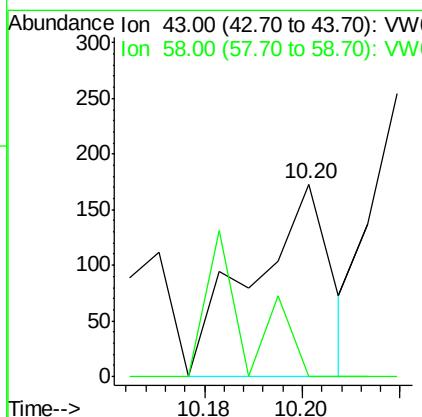
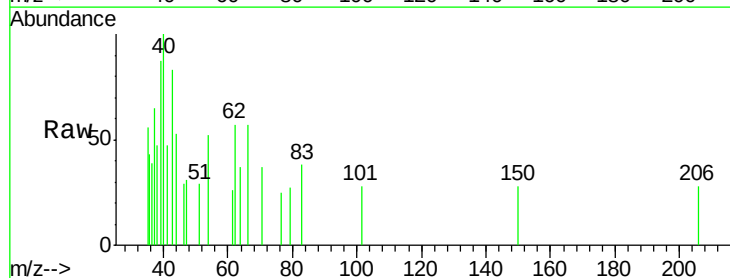
Instrument :
MSVOA_W
ClientSampled :
TP-7RE

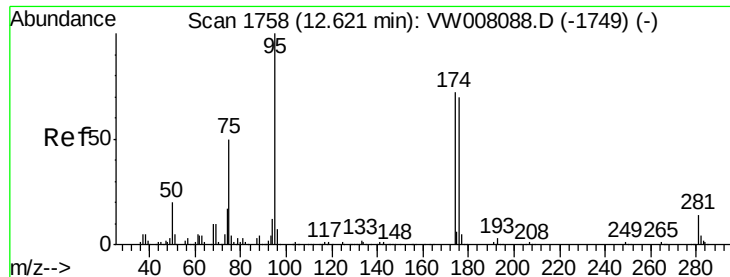
Tot Ion: 98 Resp: 31777
Ion Ratio Lower Upper
98 100
100 63.3 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.926 ug/l
RT: 10.20 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VW008306.D
Acq: 16 Jan 2019 14:15

Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
58 39.1 30.6 46.0





#62

4-Bromofluorobenzene

Concen: 47.270 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

TP-7RE

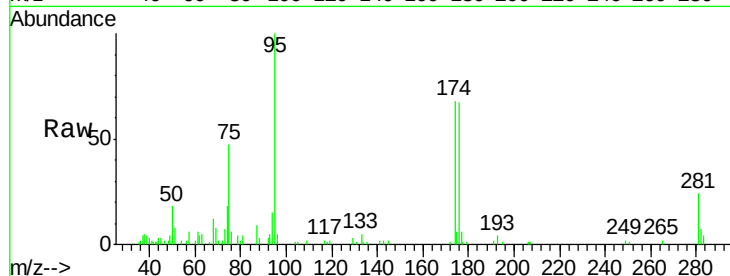
Tot Ion: 95 Resp: 10351

Ion Ratio Lower Upper

95 100

174 79.2 0.0 143.0

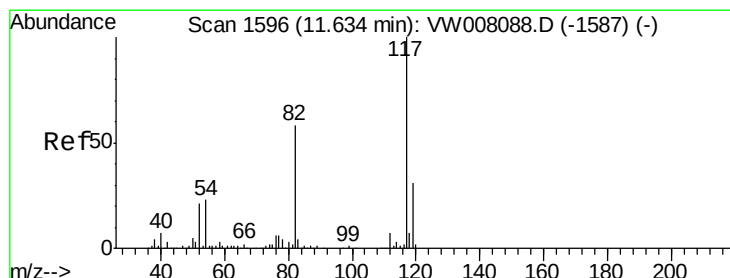
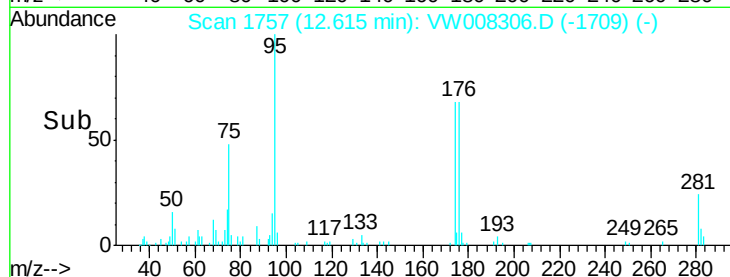
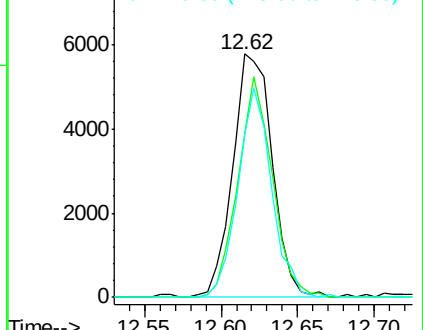
176 73.5 0.0 140.2



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. 0.00 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

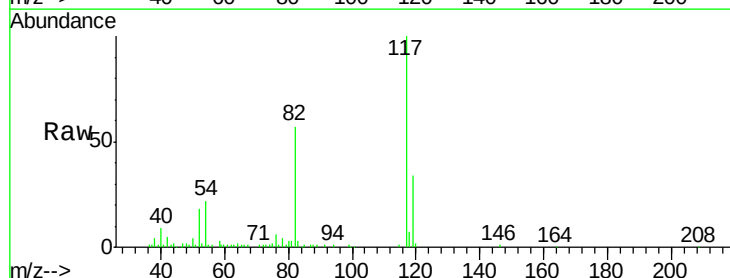
Tgt Ion: 117 Resp: 23489

Ion Ratio Lower Upper

117 100

82 57.3 46.4 69.6

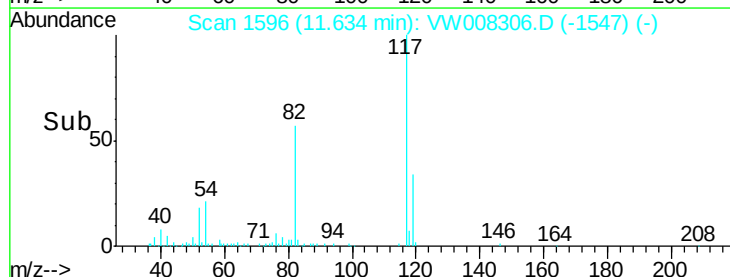
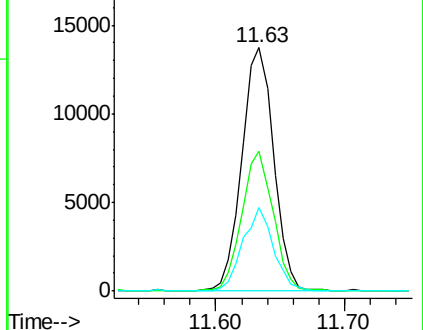
119 34.1 24.7 37.1

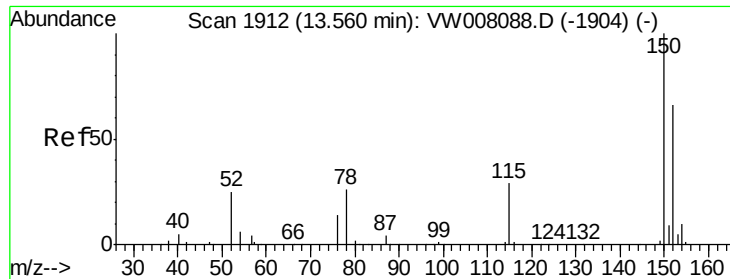


Abundance Ion 116.90 (116.60 to 117.60): VW

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: 13.57 min Scan# 1913

Delta R.T. 0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

TP-7RE

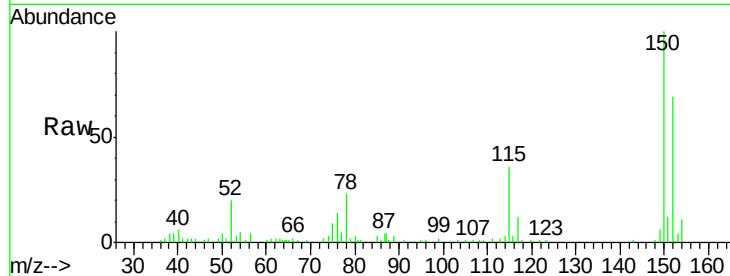
Tot Ion:152 Resp: 9710

Ion Ratio Lower Upper

152 100

115 60.8 30.8 92.4

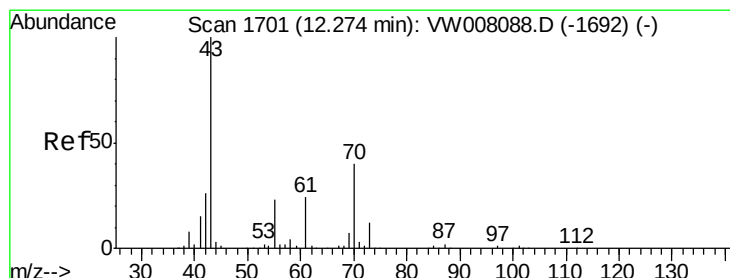
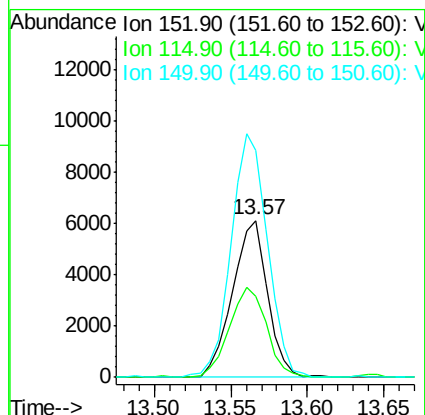
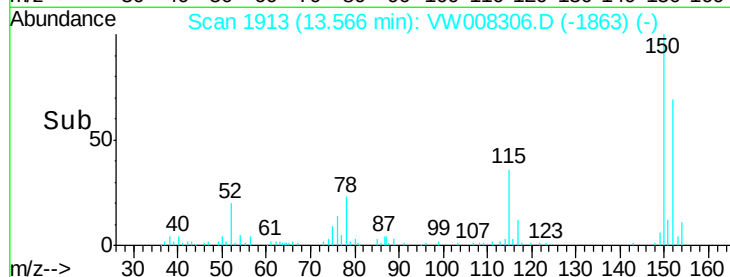
150 161.1 0.0 350.2



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



#74

N-amyl acetate

Concen: 1.297 ug/l

RT: 12.29 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Tgt Ion: 43 Resp: 219

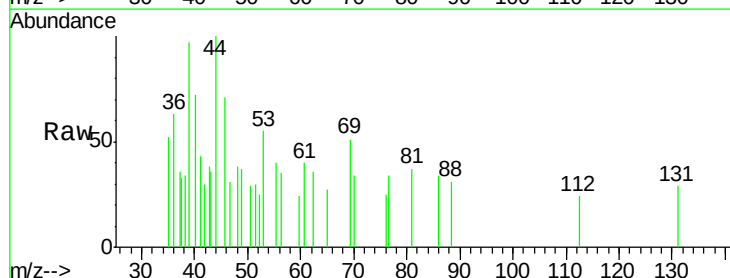
Ion Ratio Lower Upper

43 100

70 22.8 32.4 48.6#

55 84.0 18.7 28.1#

61 32.4 19.0 28.6#

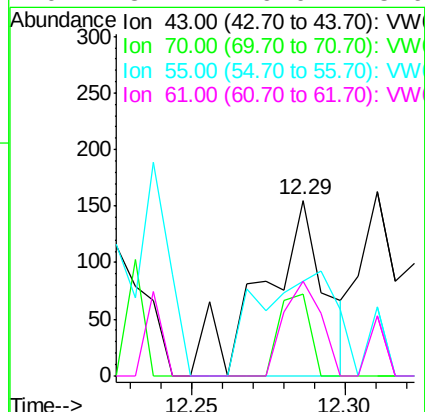
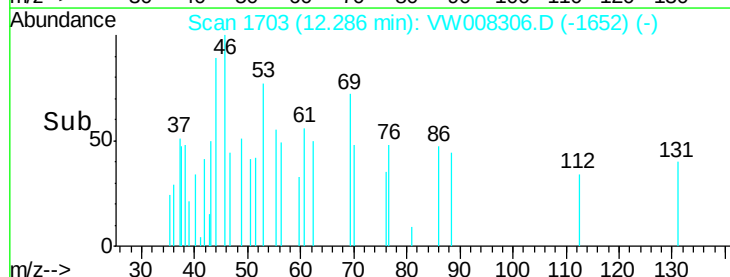


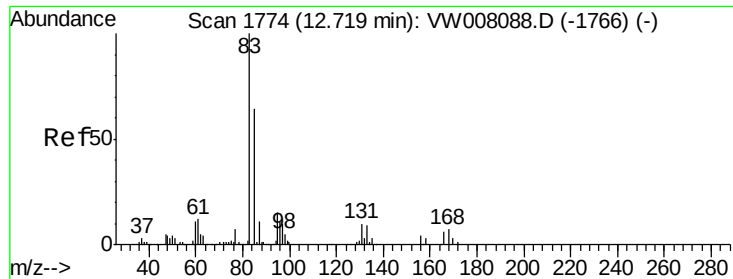
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 1.229 ug/l

RT: 12.52 min Scan# 1742

Delta R.T. -0.20 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

TP-7RE

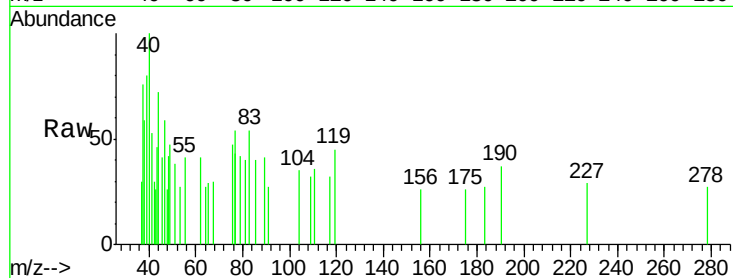
Tot Ion: 83 Resp: 150

Ion Ratio Lower Upper

83 100

131 12.7 5.3 16.1

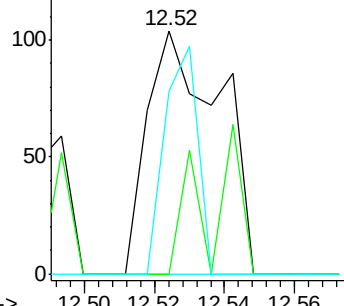
85 42.7 32.4 97.2



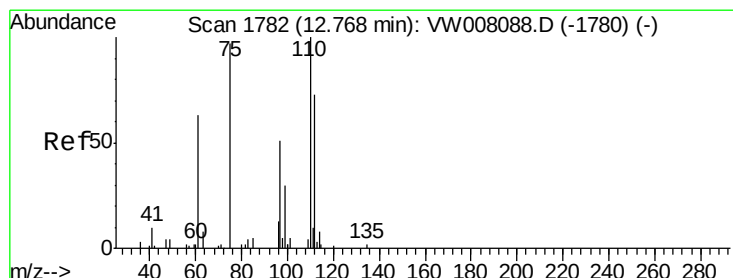
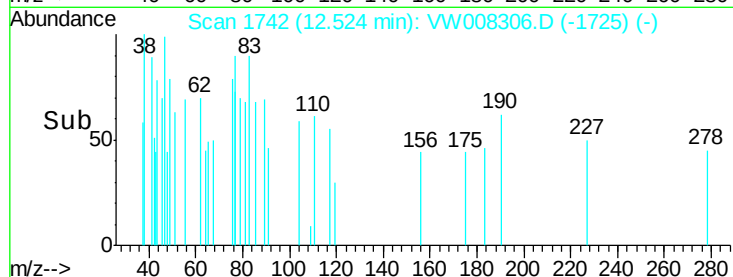
Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



Time-->



#76

1,2,3-Trichloropropane

Concen: 53.752 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008306.D

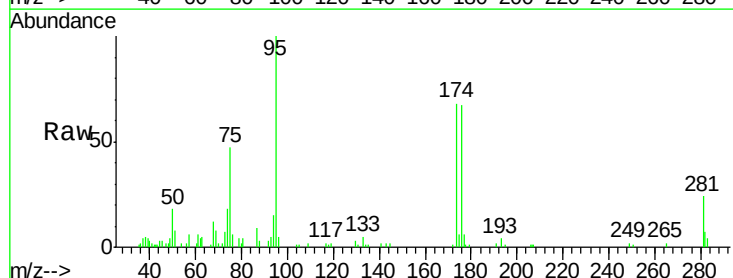
Acq: 16 Jan 2019 14:15

Tgt Ion: 75 Resp: 4758

Ion Ratio Lower Upper

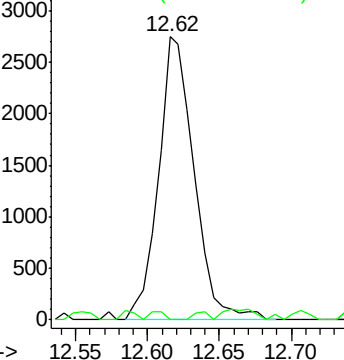
75 100

77 1.2 179.4 538.2#

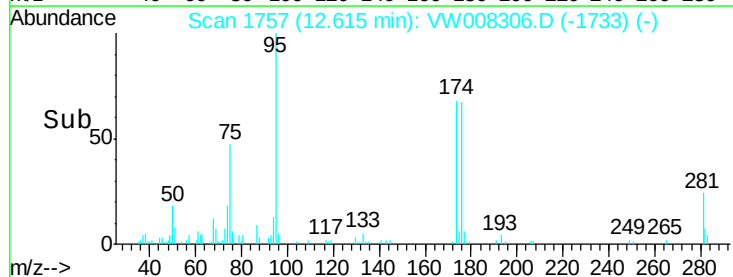


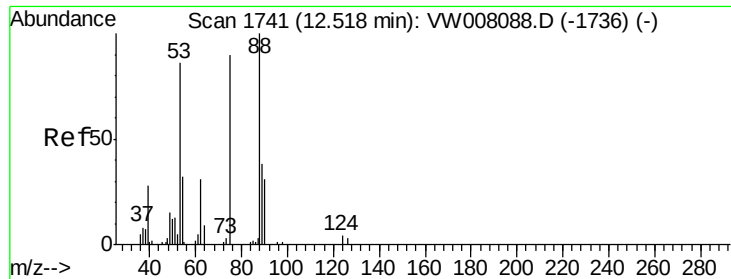
Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 125.173 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

TP-7RE

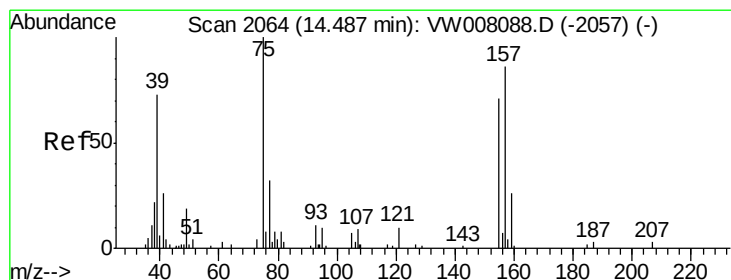
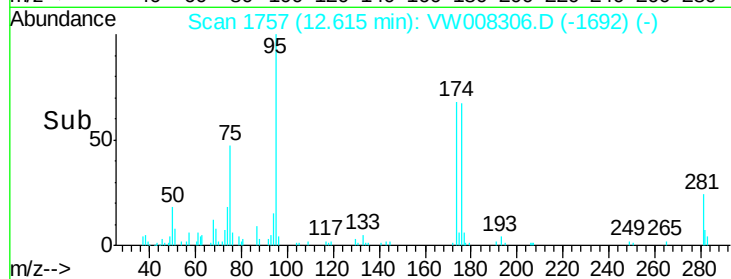
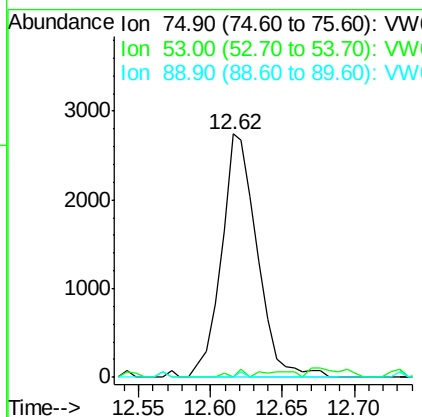
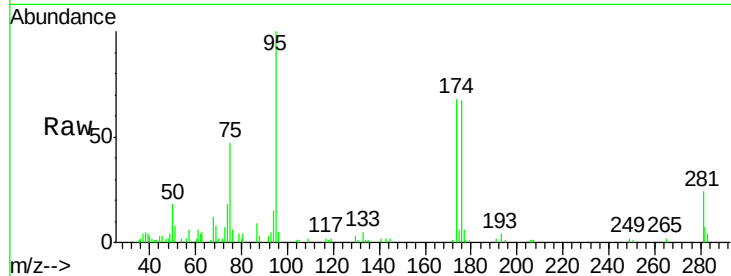
Tot Ion: 75 Resp: 4758

Ion Ratio Lower Upper

75 100

53 1.1 78.8 118.2#

89 0.4 35.4 53.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.088 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW008306.D

Acq: 16 Jan 2019 14:15

Tgt Ion: 75 Resp: 41

Ion Ratio Lower Upper

75 100

155 63.4 38.6 115.7

157 0.0 47.5 142.6#

