

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW020819\
 Data File : VW008586.D
 Acq On : 08 Feb 2019 21:27
 Operator : SY/VA
 Sample : K1309-02RE
 Misc : 6.91G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-02(15-16)

Quant Time: Feb 09 00:29:52 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	443918	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	719439	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	665838	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	430369	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	239890	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
35) Dibromofluoromethane	7.88	113	223945	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	
50) Toluene-d8	10.32	98	869068	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
62) 4-Bromofluorobenzene	12.62	95	409591	63.17	ug/l	0.00
Spiked Amount			Recovery	=	126.34%	

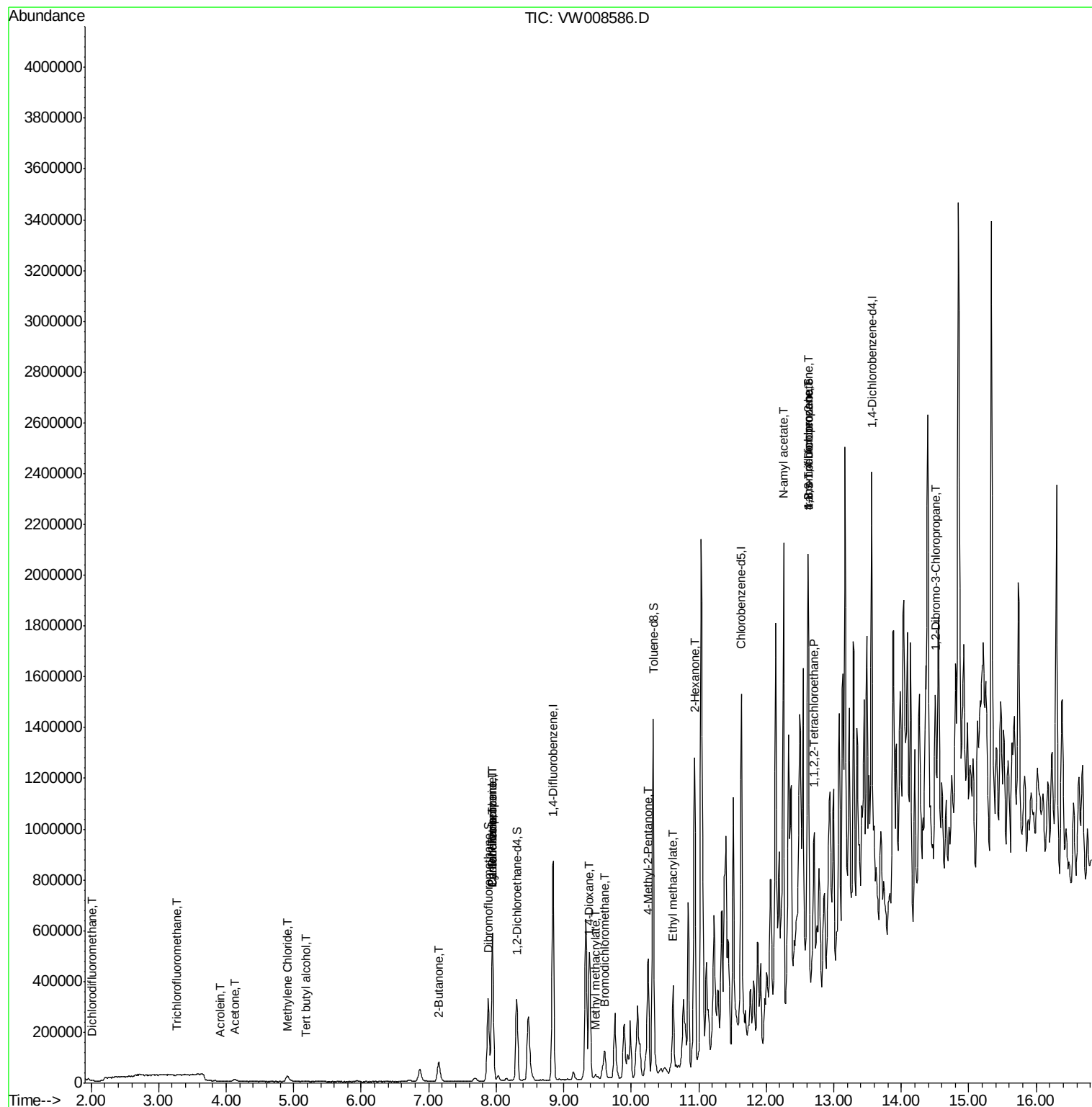
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	322	3.370	ug/l #	41
7) Trichlorofluoromethane	3.27	101	83	4.744	ug/l #	17
11) Tert butyl alcohol	5.18	59	2876	8.191	ug/l	100
13) Acrolein	3.92	56	222	4.890	ug/l #	1
16) Acetone	4.13	43	15355	15.679	ug/l	97
20) Methylene Chloride	4.90	84	17467	3.870	ug/l	95
25) 2-Butanone	7.16	43	9528	7.004	ug/l #	65
31) Cyclohexane	7.94	56	11438	1.336	ug/l #	26
36) 1,1-Dichloropropene	7.94	75	34154	5.026	ug/l #	52
38) Carbon Tetrachloride	7.95	117	42051	6.149	ug/l #	16
47) Bromodichloromethane	9.62	83	9887	1.546	ug/l #	37
48) Methyl methacrylate	9.46	41	6025	1.973	ug/l #	42
49) 1,4-Dioxane	9.37	88	45	1.101	ug/l #	1
51) 4-Methyl-2-Pentanone	10.25	43	58420	18.931	ug/l #	78
56) Ethyl methacrylate	10.62	69	106783	22.718	ug/l #	80
59) 2-Hexanone	10.93	43	497924	228.556	ug/l #	31
74) N-amyl acetate	12.26	43	442532	53.539	ug/l #	70
75) 1,1,2,2-Tetrachloroethane	12.70	83	18147	3.572	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	210249	56.190	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	210249	110.980	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1131	1.173	ug/l #	7

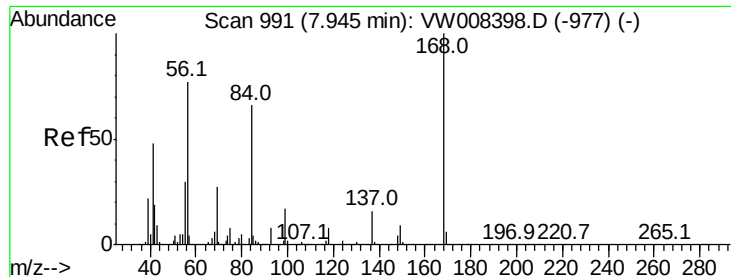
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 25 11:07:41 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: VW008586.D

Acq: 08 Feb 2019 21:27

Instrument :

MSVOA_W

ClientSampleId :

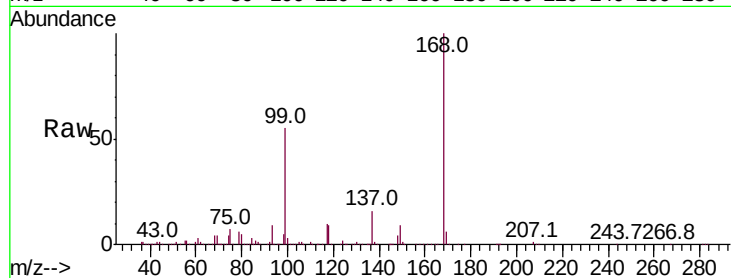
SB-02(15-16)

Tot Ion:168 Resp: 443918

Ion Ratio Lower Upper

168 100

99 54.9 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

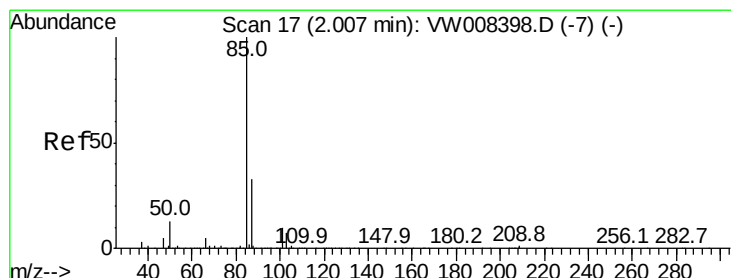
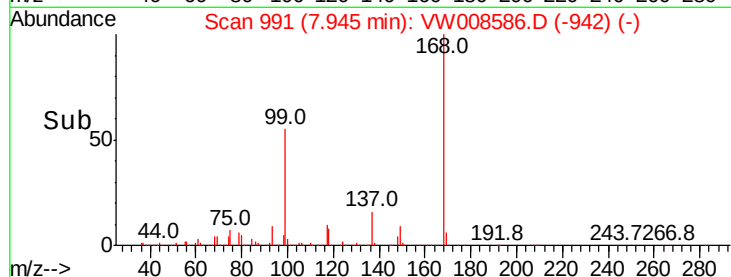
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 3.370 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW008586.D

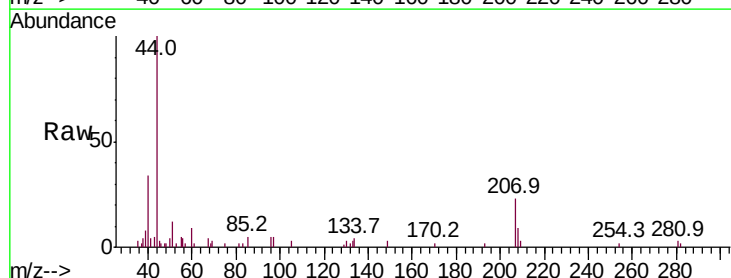
Acq: 08 Feb 2019 21:27

Tgt Ion: 85 Resp: 322

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

200

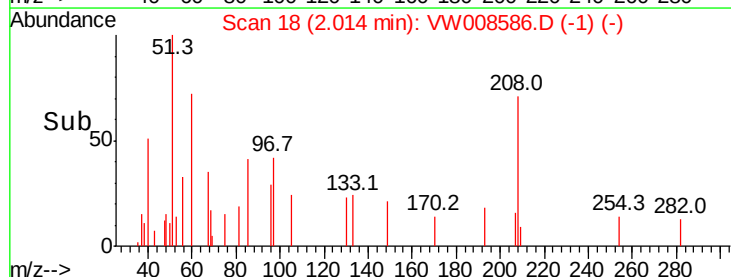
150

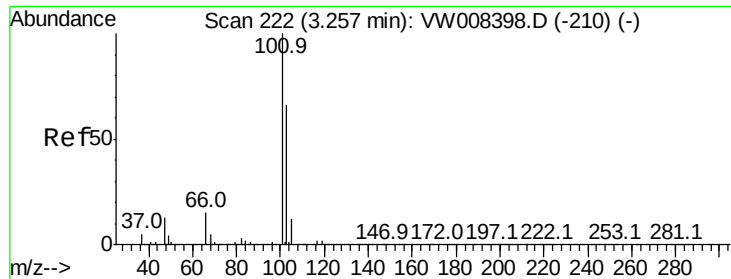
100

50

0

Time--> 2.00 2.05



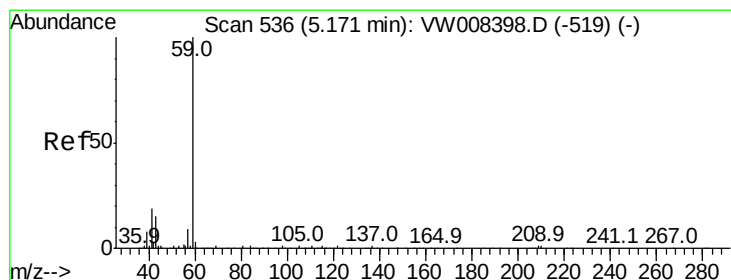
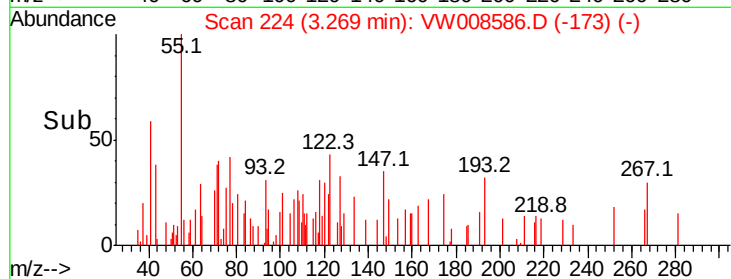
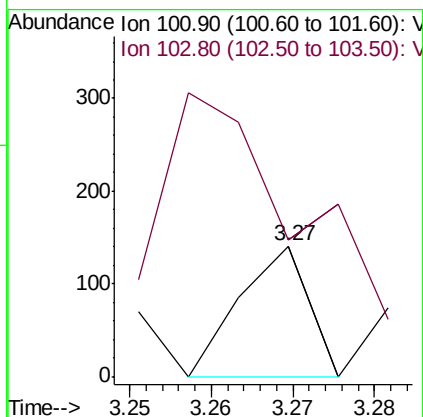
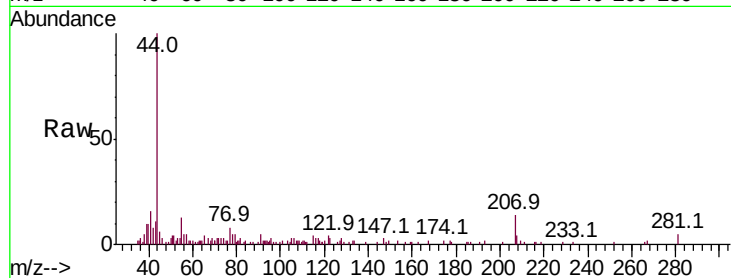


#7

Trichlorofluoromethane
Concen: 4.744 ug/l
RT: 3.27 min Scan# 224
Delta R.T. 0.01 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

Instrument :
MSVOA_W
ClientSampled :
SB-02(15-16)

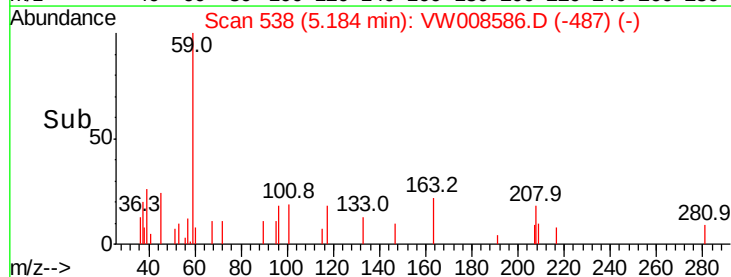
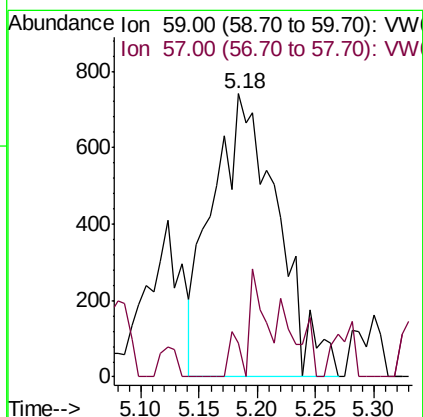
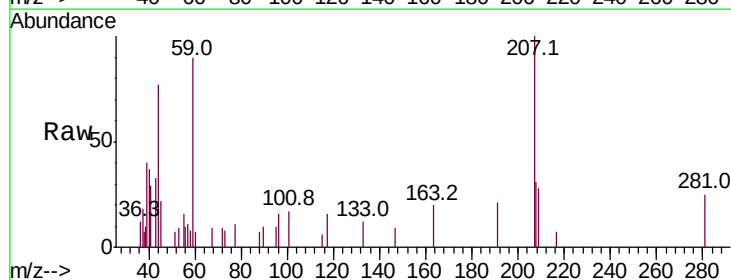
Tot Ion:101 Resp: 83
Ion Ratio Lower Upper
101 100
103 0.0 52.5 78.7#

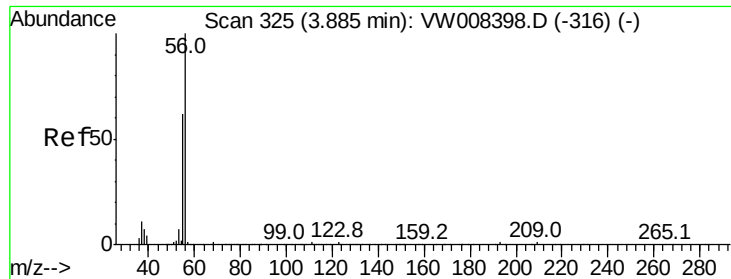


#11

Tert butyl alcohol
Concen: 8.191 ug/l
RT: 5.18 min Scan# 538
Delta R.T. 0.01 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

Tgt Ion: 59 Resp: 2876
Ion Ratio Lower Upper
59 100
57 11.4 9.3 13.9

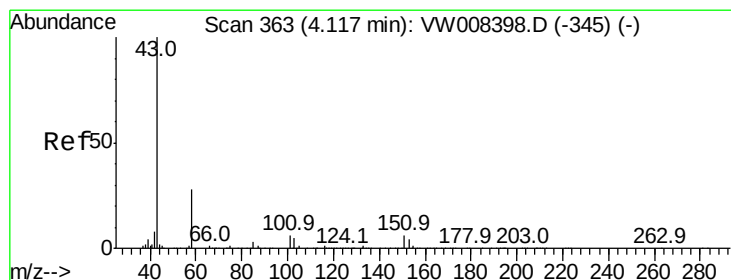
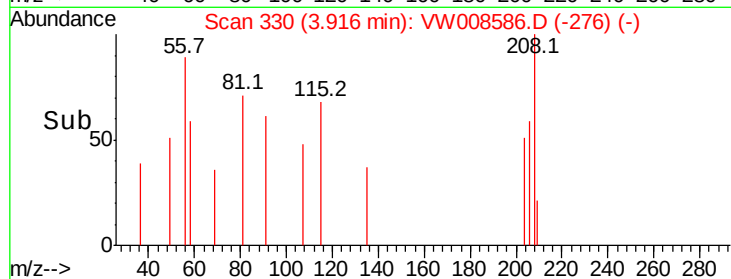
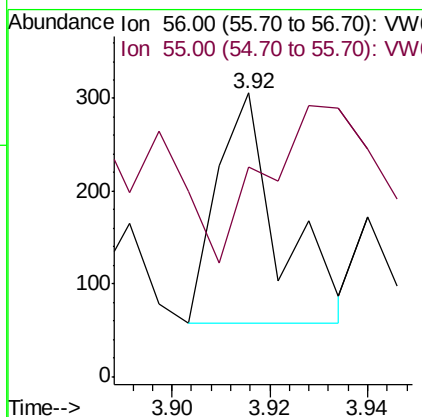
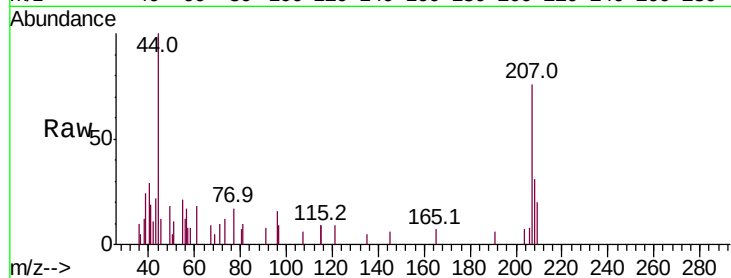




#13
Acrolein
Concen: 4.890 ug/l
RT: 3.92 min Scan# 330
Delta R.T. 0.03 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

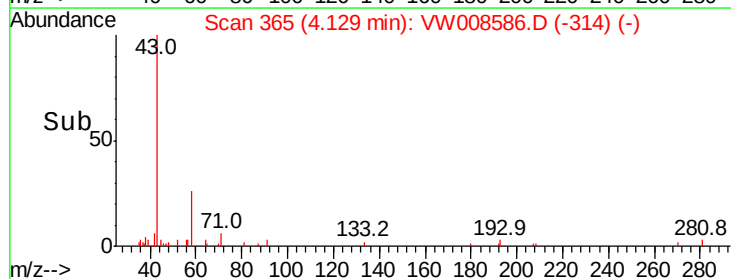
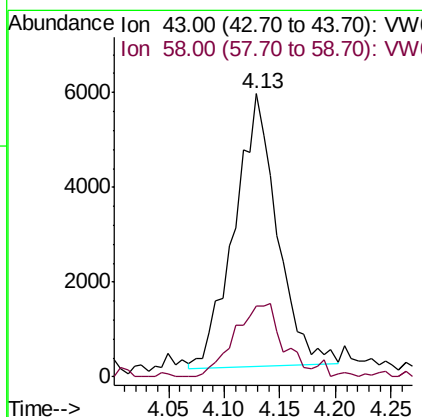
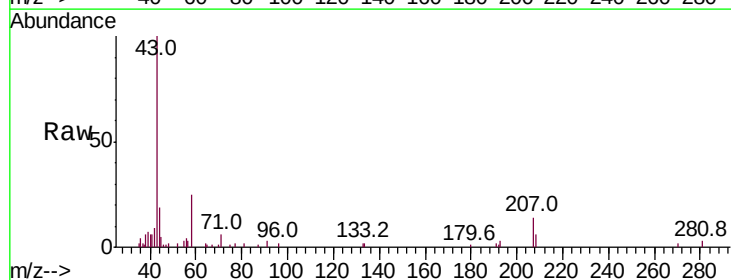
Instrument :
MSVOA_W
ClientSampled :
SB-02(15-16)

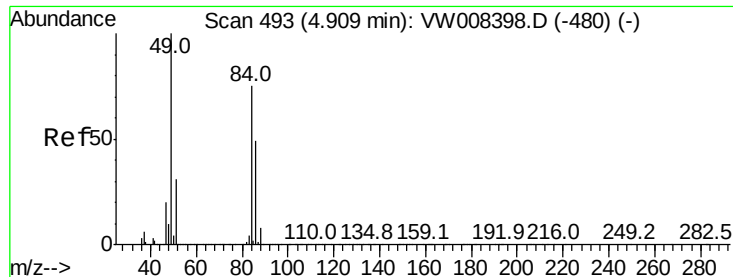
Tot Ion: 56 Resp: 222
Ion Ratio Lower Upper
56 100
55 274.3 56.7 85.1#



#16
Acetone
Concen: 15.679 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

Tgt Ion: 43 Resp: 15355
Ion Ratio Lower Upper
43 100
58 26.5 22.6 34.0

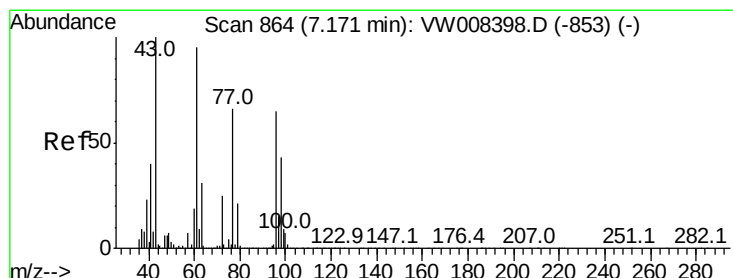
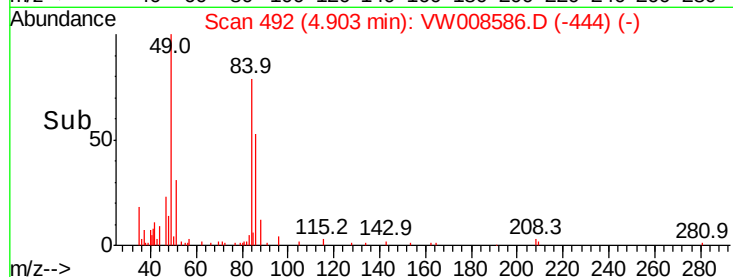
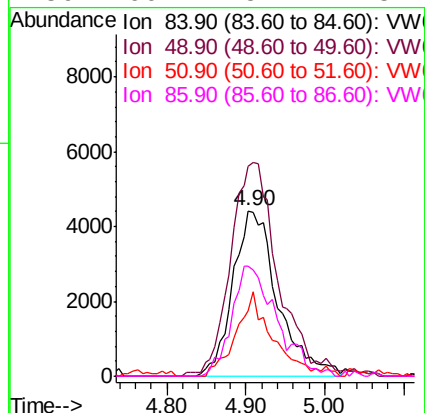
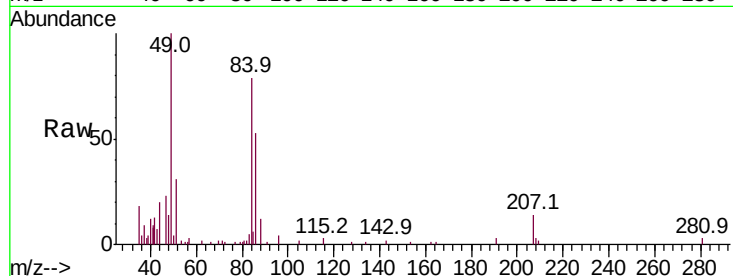




#20
Methylene Chloride
Concen: 3.870 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

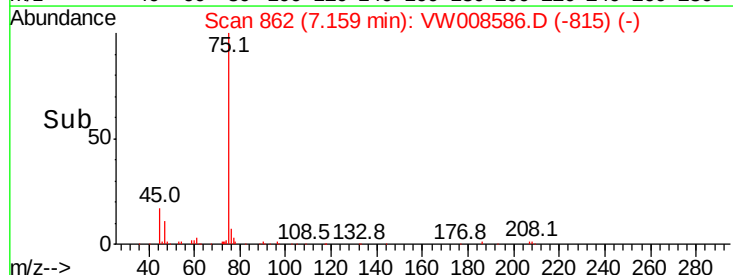
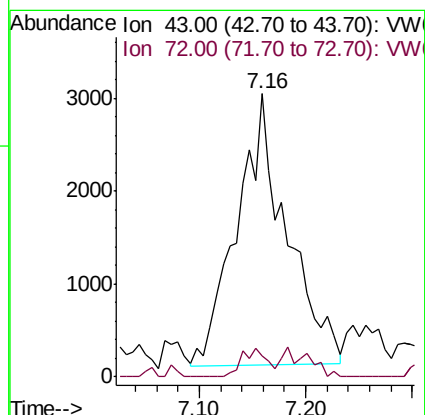
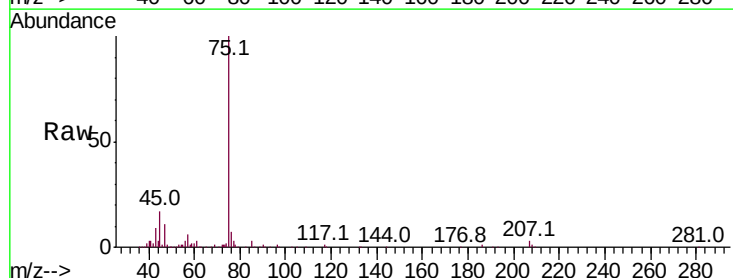
Instrument :
MSVOA_W
ClientSampleId :
SB-02(15-16)

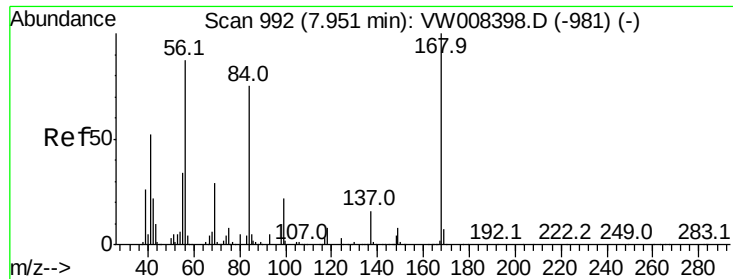
Tot Ion:	84	Resp:	17467
Ion	Ratio	Lower	Upper
84	100		
49	124.2	106.8	160.2
51	39.3	32.9	49.3
86	66.4	52.2	78.2



#25
2-Butanone
Concen: 7.004 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

Tgt Ion:	43	Resp:	9528
Ion	Ratio	Lower	Upper
43	100		
72	7.7	20.1	30.1#

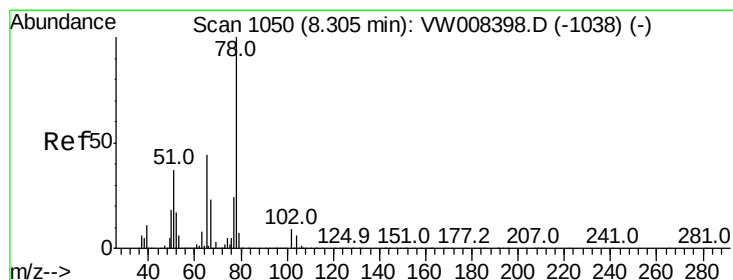
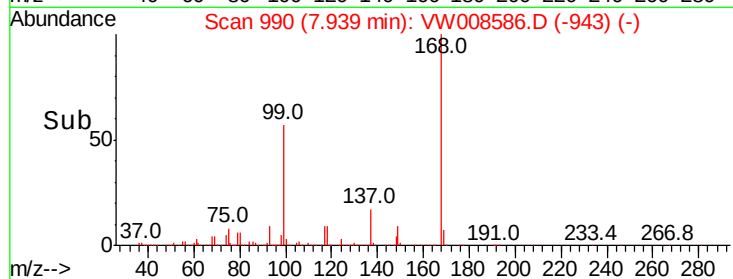
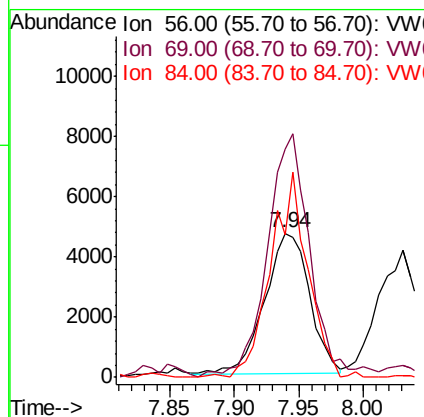
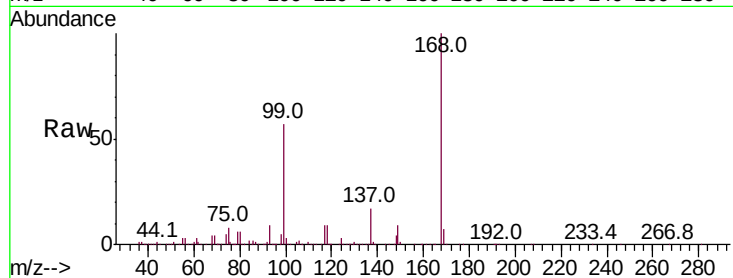




#31
Cyclohexane
Concen: 1.336 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

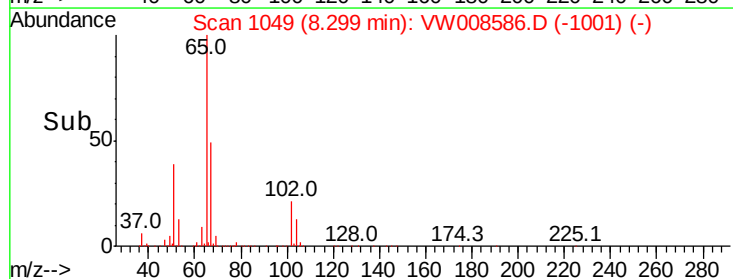
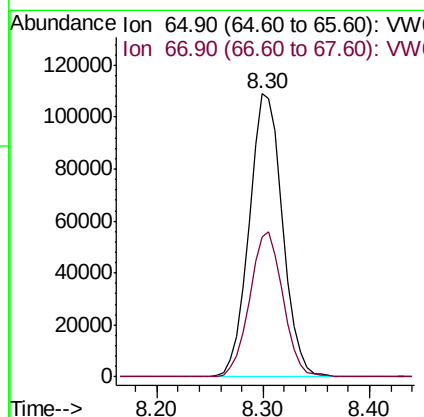
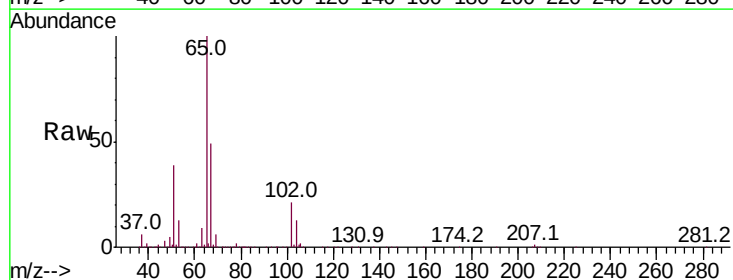
Instrument :
MSVOA_W
ClientSampleId :
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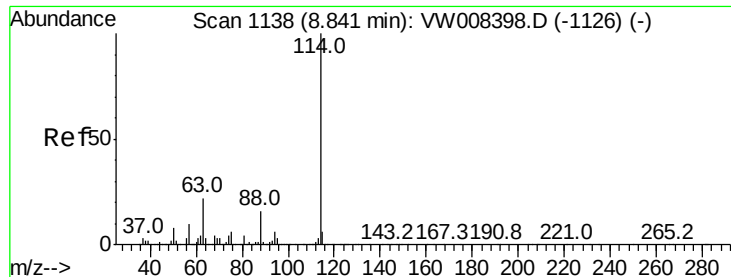
Tot Ion: 56 Resp: 11438
Ion Ratio Lower Upper
56 100
69 160.8 26.4 39.6#
84 101.2 69.1 103.7



#33
1,2-Dichloroethane-d4
Concen: 55.007 ug/l
RT: 8.30 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

Tgt Ion: 65 Resp: 239890
Ion Ratio Lower Upper
65 100
67 50.9 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: VW008586.D

Acq: 08 Feb 2019 21:27

Instrument :

MSVOA_W

ClientSampleId :

SB-02(15-16)

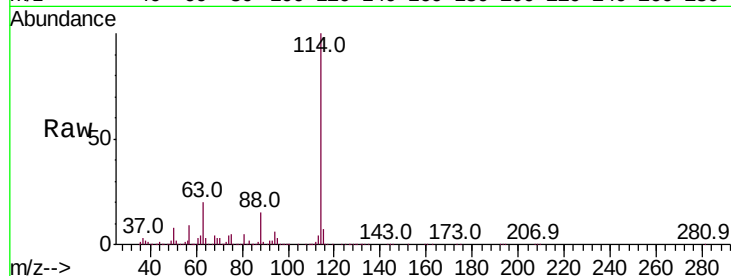
Tot Ion:114 Resp: 719439

Ion Ratio Lower Upper

114 100

63 20.0 0.0 43.6

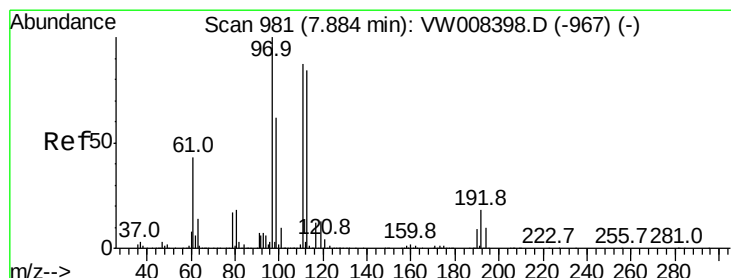
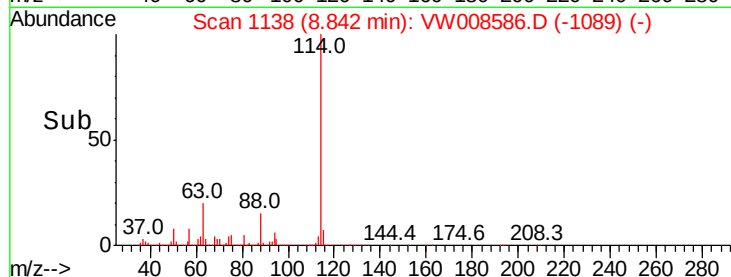
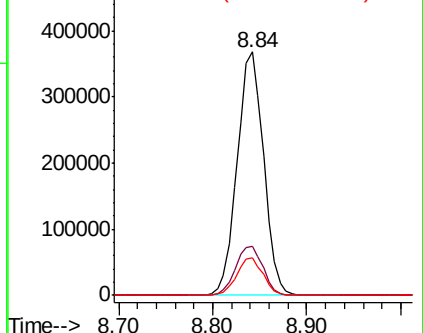
88 15.3 0.0 31.8



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: 53.234 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

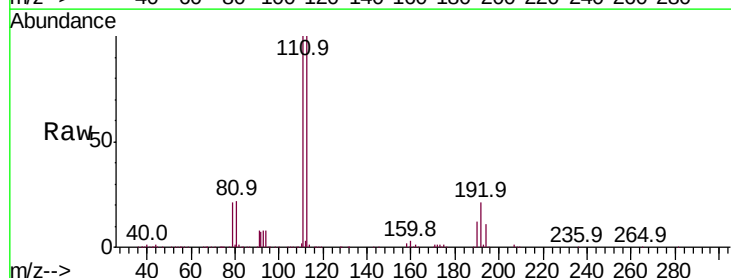
Tgt Ion:113 Resp: 223945

Ion Ratio Lower Upper

113 100

111 102.6 81.0 121.4

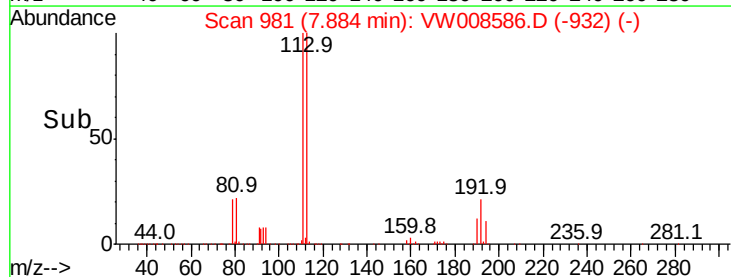
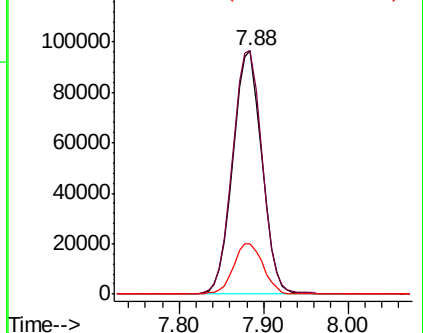
192 21.2 16.8 25.2

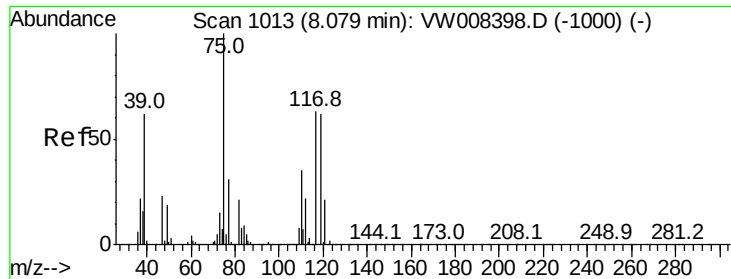


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.026 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

Instrument :

MSVOA_W

ClientSampleId :

SB-02(15-16)

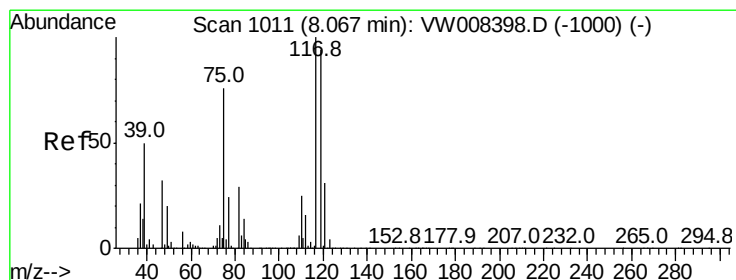
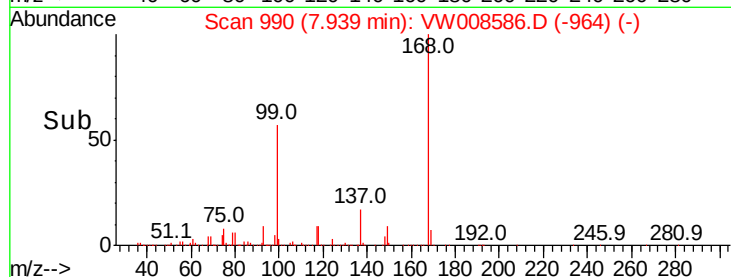
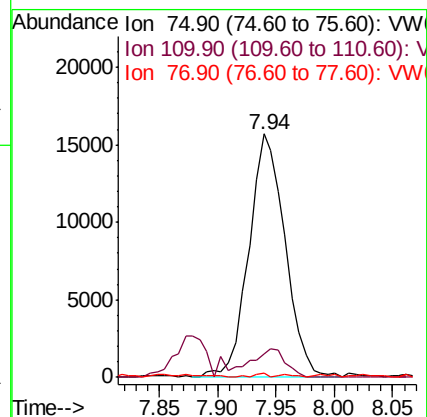
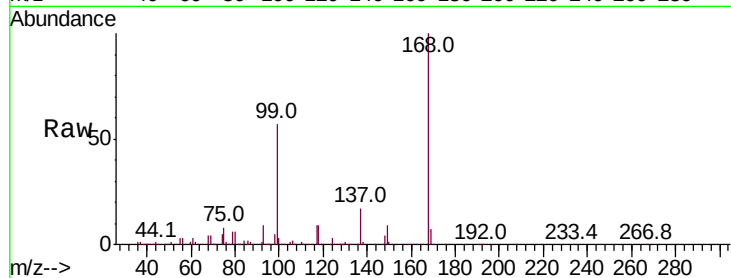
Tot Ion: 75 Resp: 34154

Ion Ratio Lower Upper

75 100

110 10.6 17.3 52.0#

77 0.7 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.149 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

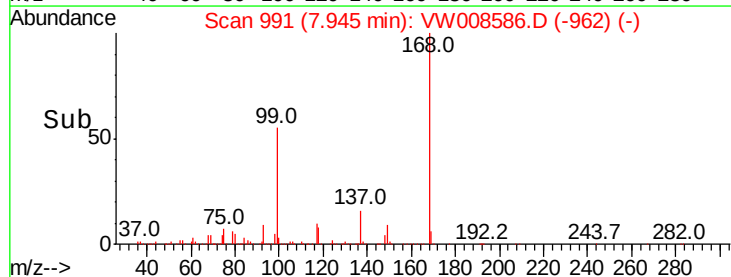
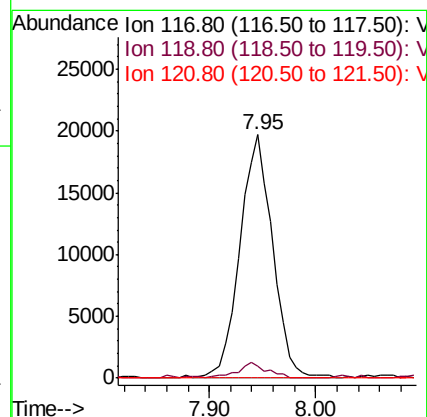
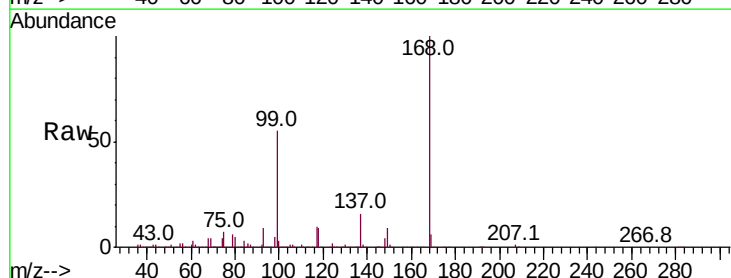
Tgt Ion: 117 Resp: 42051

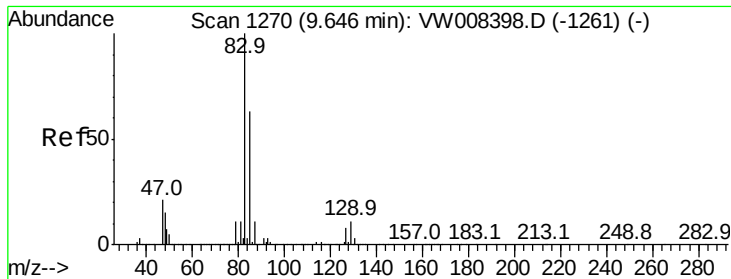
Ion Ratio Lower Upper

117 100

119 4.1 75.0 112.4#

121 0.0 24.9 37.3#





#47

Bromodichloromethane

Concen: 1.546 ug/l

RT: 9.62 min Scan# 1265

Delta R.T. -0.03 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

Instrument :

MSVOA_W

ClientSampleId :

SB-02(15-16)

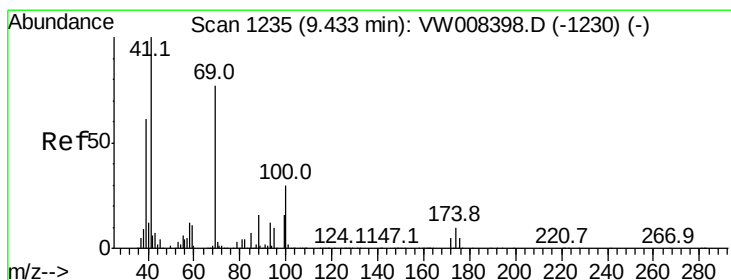
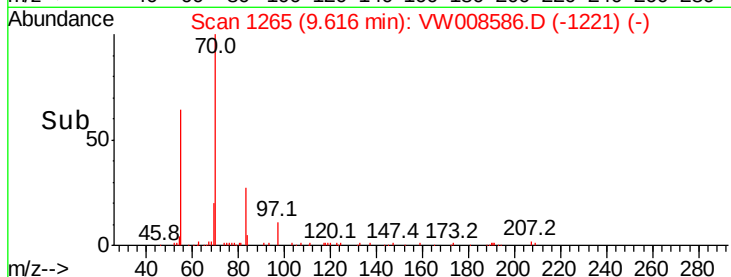
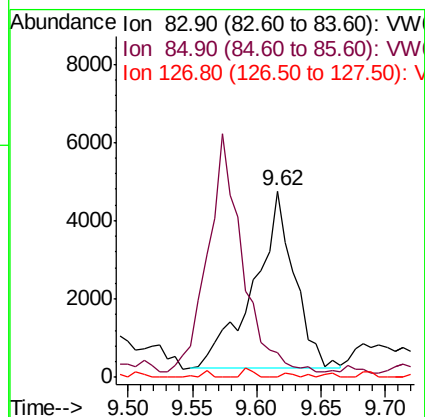
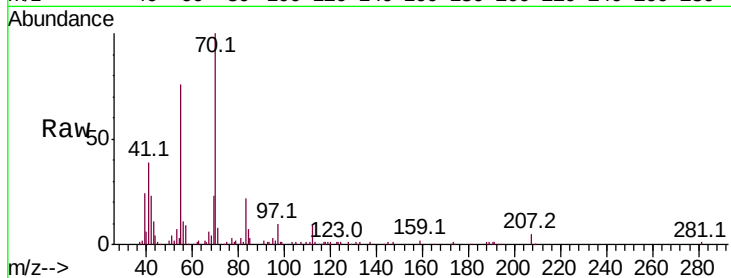
Tot Ion: 83 Resp: 9887

Ion Ratio Lower Upper

83 100

85 10.3 50.8 76.2#

127 0.0 6.8 10.2#



#48

Methyl methacrylate

Concen: 1.973 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.03 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

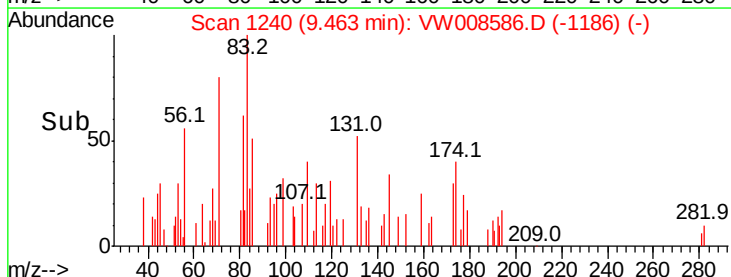
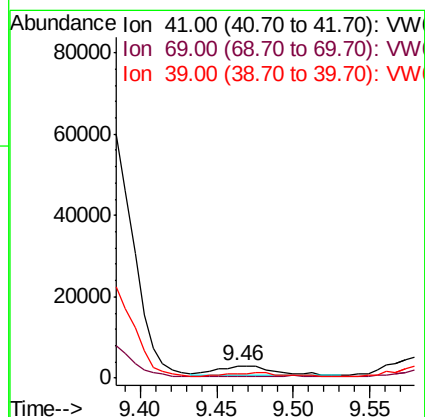
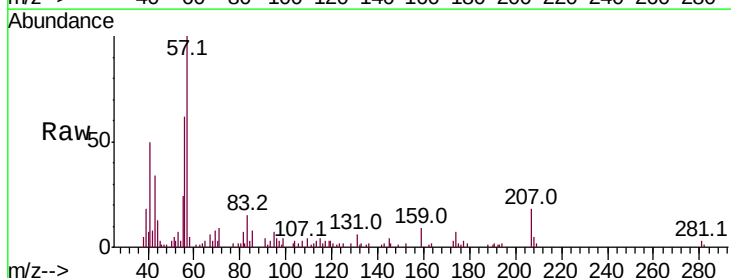
Tgt Ion: 41 Resp: 6025

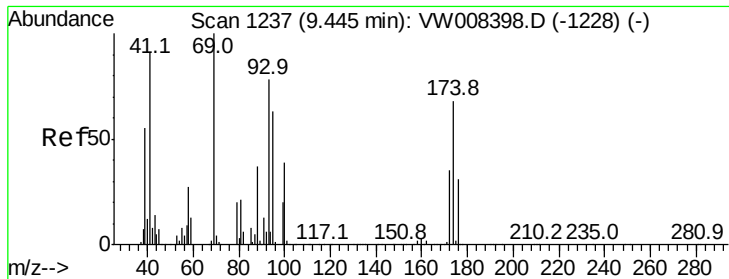
Ion Ratio Lower Upper

41 100

69 0.0 64.8 97.2#

39 50.2 49.1 73.7





#49

1,4-Dioxane

Concen: 1.101 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.08 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

Instrument :

MSVOA_W

ClientSampled :

SB-02(15-16)

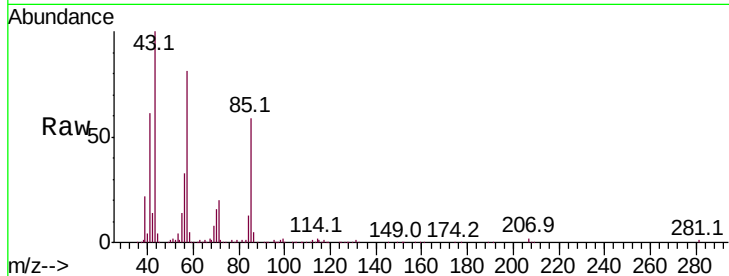
Tot Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

43 439915.6 29.0 43.4#

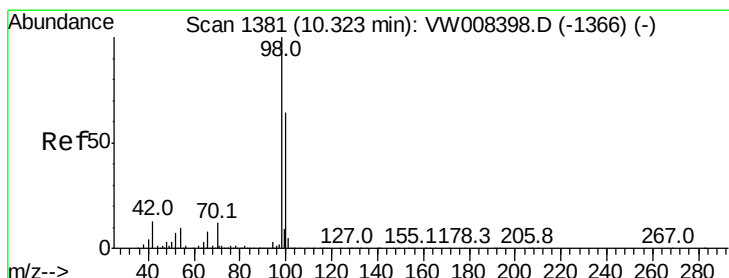
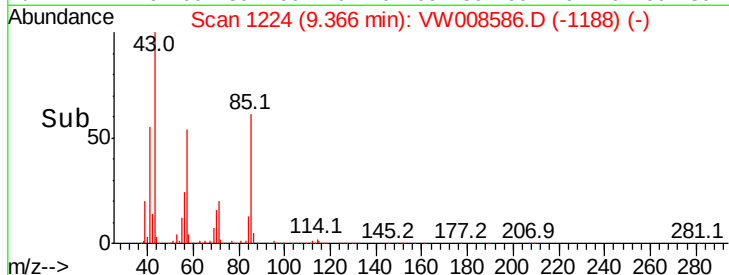
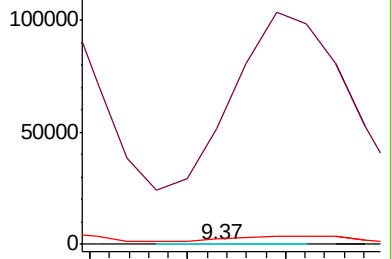
58 16317.8 56.4 84.6#



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



#50

Toluene-d8

Concen: 51.517 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008586.D

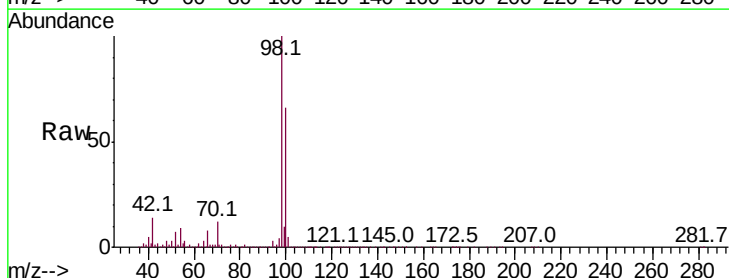
Acq: 08 Feb 2019 21:27

Tgt Ion: 98 Resp: 869068

Ion Ratio Lower Upper

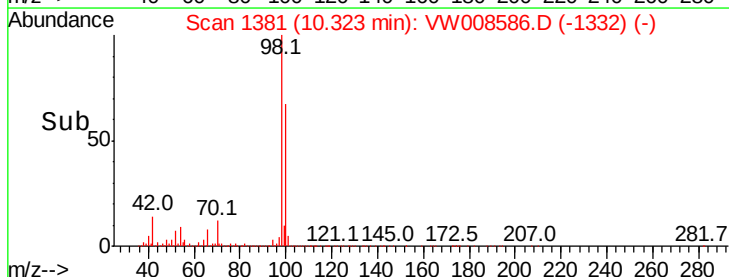
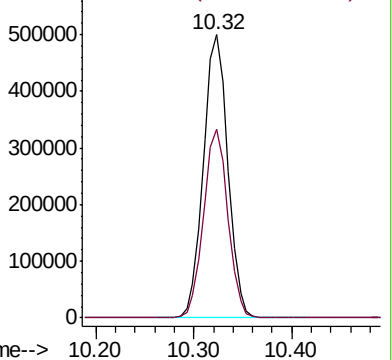
98 100

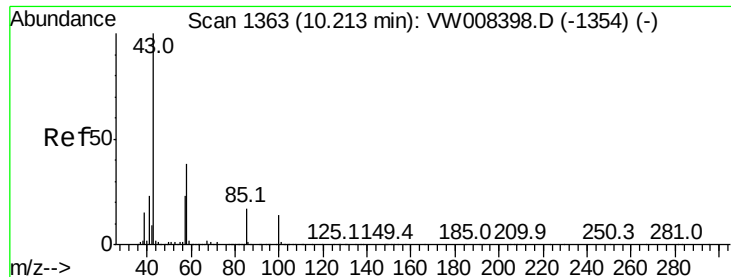
100 66.1 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 18.931 ug/l

RT: 10.25 min Scan# 1369

Delta R.T. 0.04 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

Instrument :

MSVOA_W

ClientSampleId :

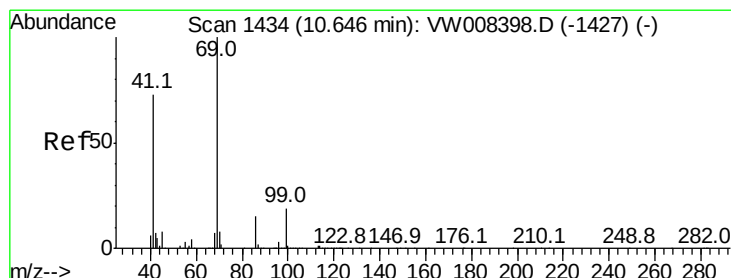
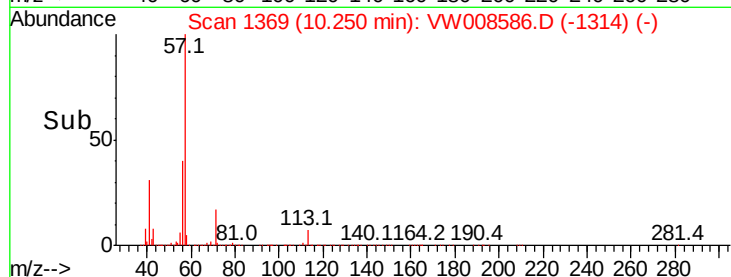
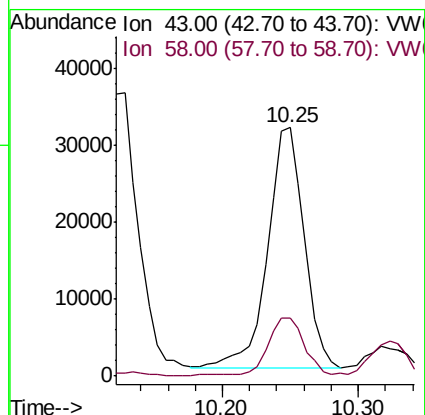
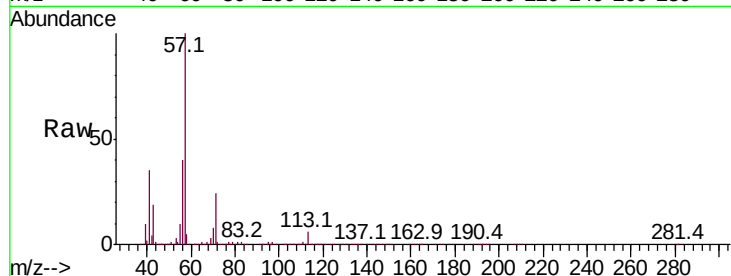
SB-02(15-16)

Tot Ion: 43 Resp: 58420

Ion Ratio Lower Upper

43 100

58 24.1 29.7 44.5#



#56

Ethyl methacrylate

Concen: 22.718 ug/l

RT: 10.62 min Scan# 1430

Delta R.T. -0.02 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

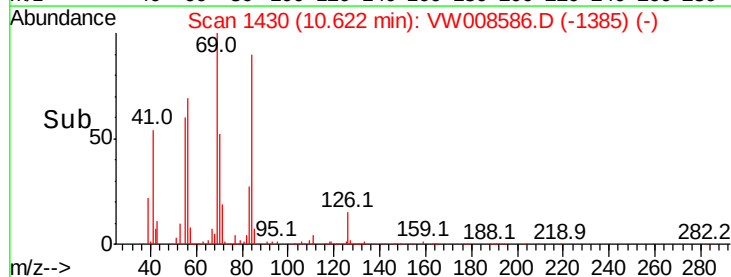
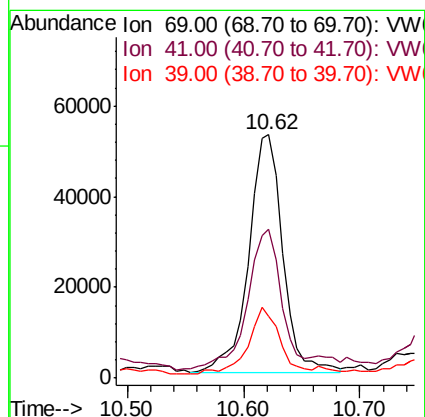
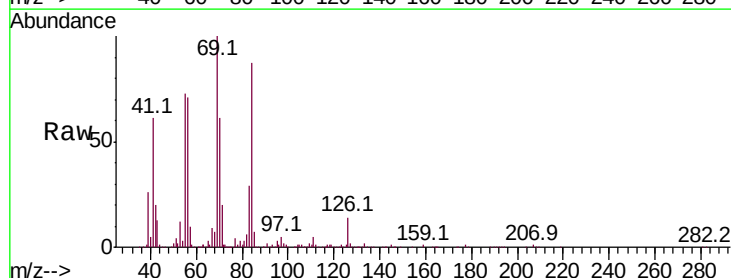
Tgt Ion: 69 Resp: 106783

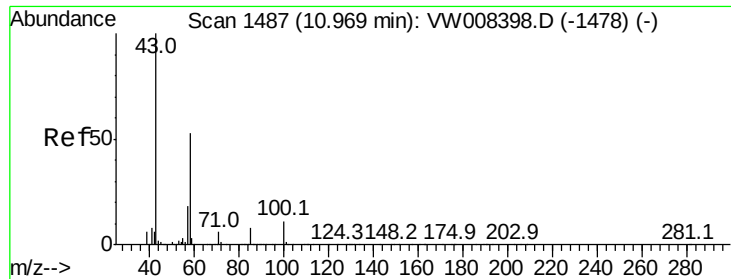
Ion Ratio Lower Upper

69 100

41 58.4 58.7 88.1#

39 26.5 32.6 48.8#

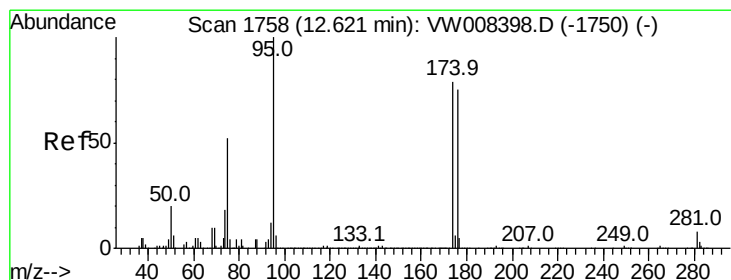
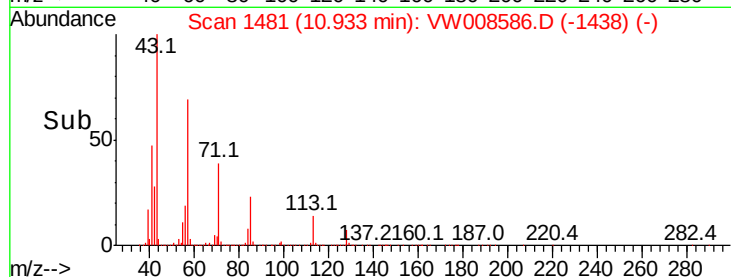
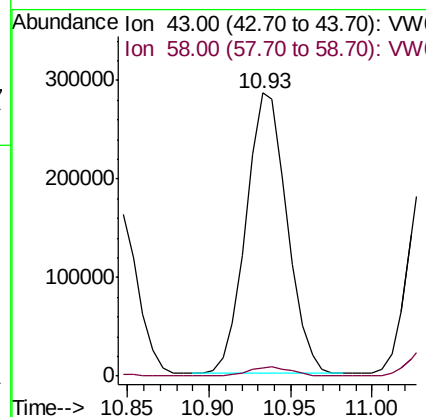
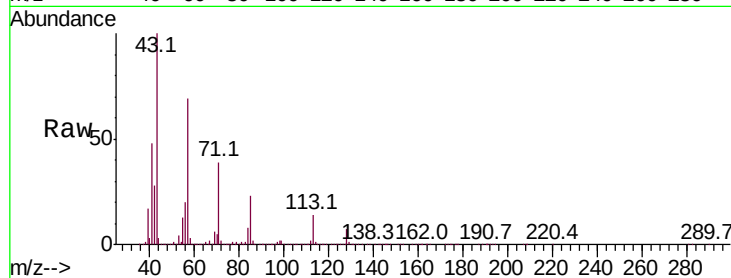




#59
2-Hexanone
Concen: 228.556 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.04 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

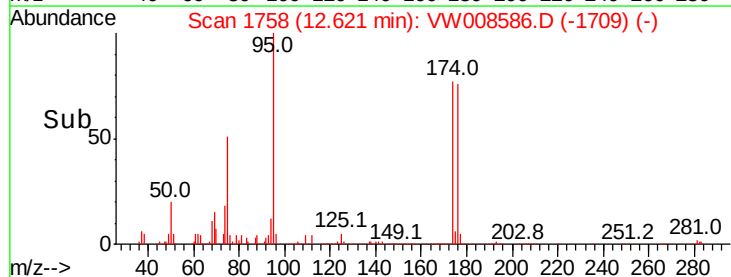
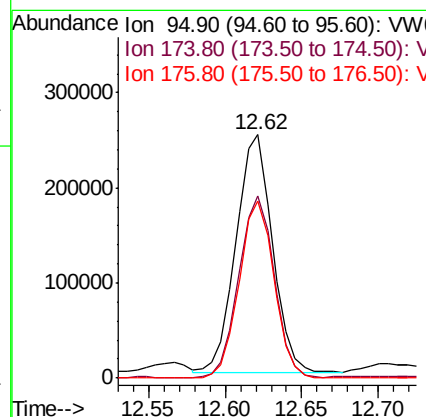
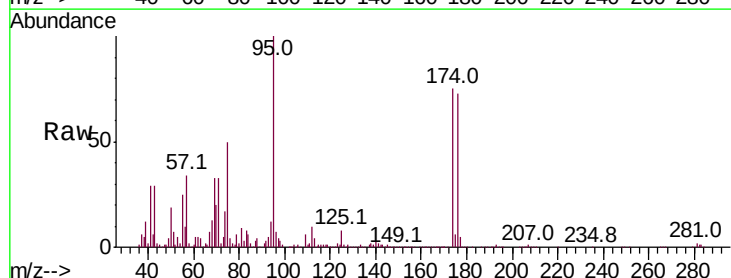
Instrument :
MSVOA_W
ClientSampleId :
SB-02(15-16)

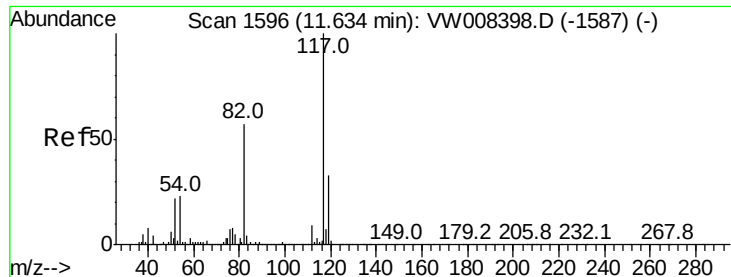
Tot Ion: 43 Resp: 497924
Ion Ratio Lower Upper
43 100
58 3.4 25.9 77.7#



#62
4-Bromofluorobenzene
Concen: 63.166 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

Tgt Ion: 95 Resp: 409591
Ion Ratio Lower Upper
95 100
174 74.4 0.0 157.6
176 71.9 0.0 151.8

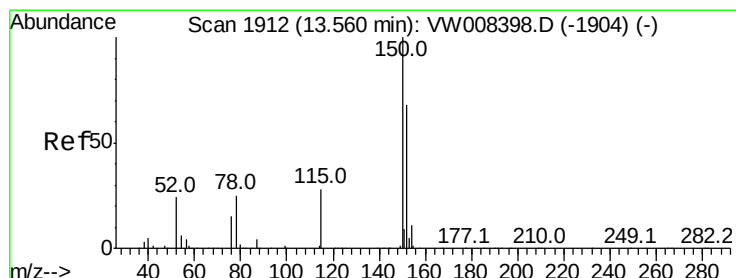
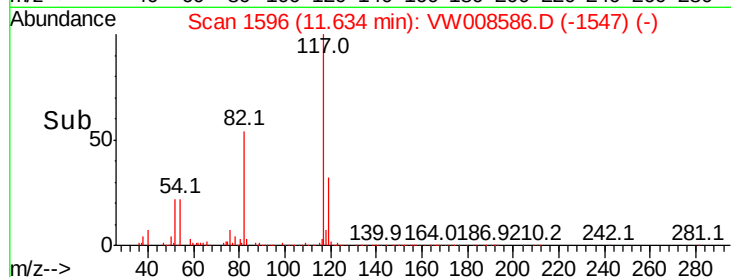
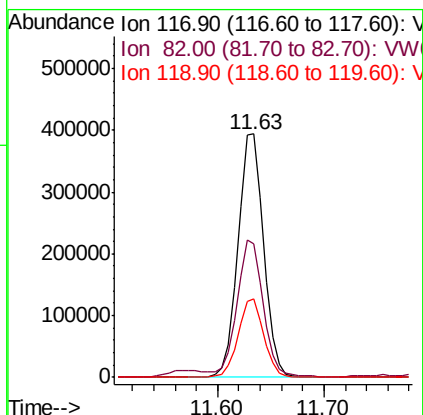
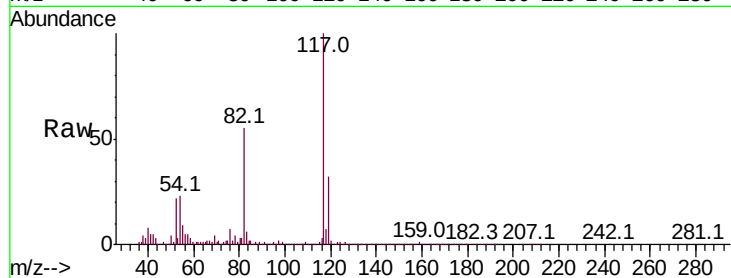




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

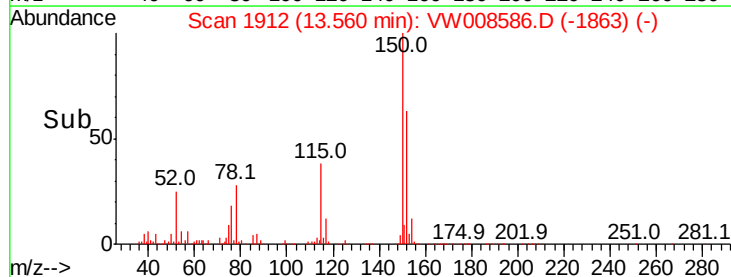
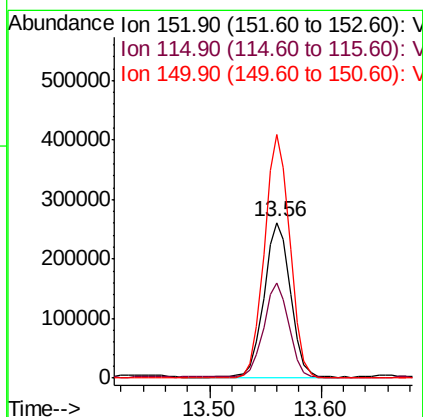
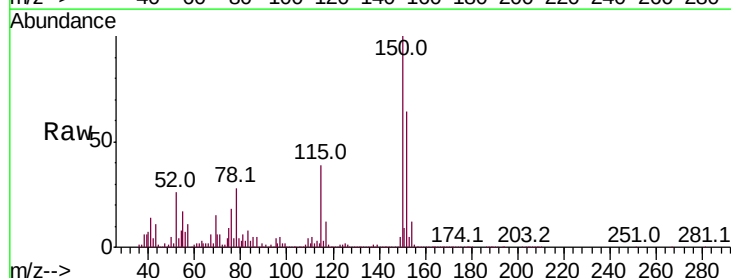
Instrument :
MSVOA_W
ClientSampleId :
SB-02(15-16)

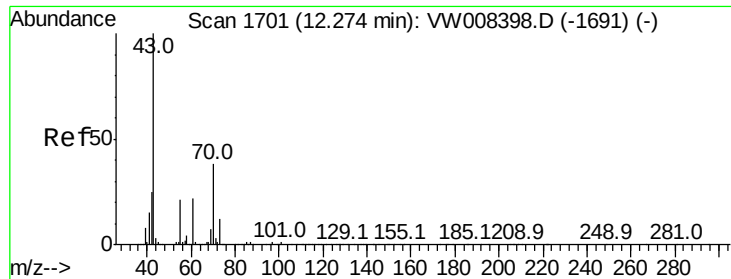
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.4	45.4	68.0
119	31.9	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008586.D
Acq: 08 Feb 2019 21:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.4	29.9	89.7
150	151.3	0.0	351.4





#74

N-amvl acetate

Concen: 53.539 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

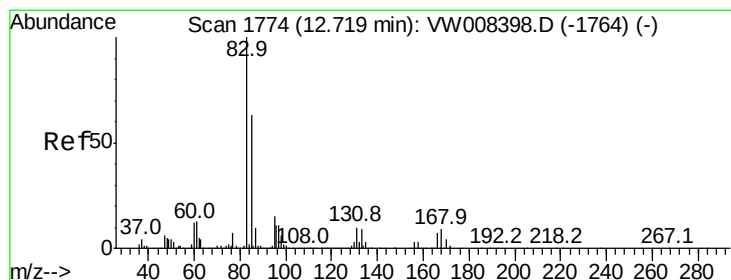
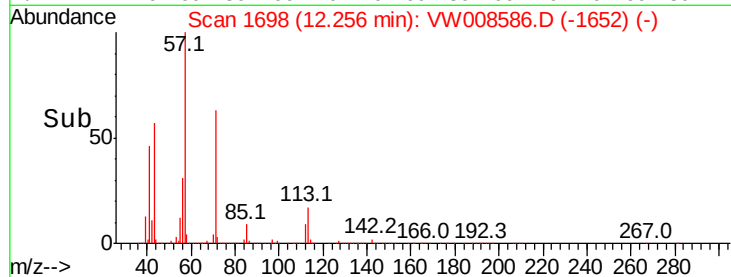
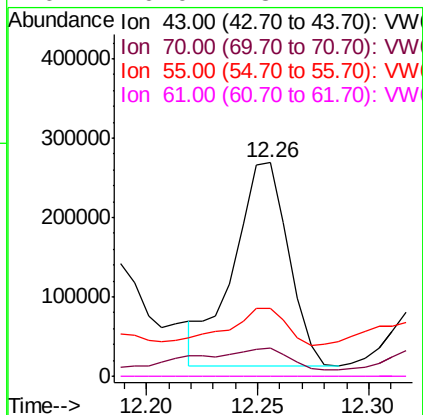
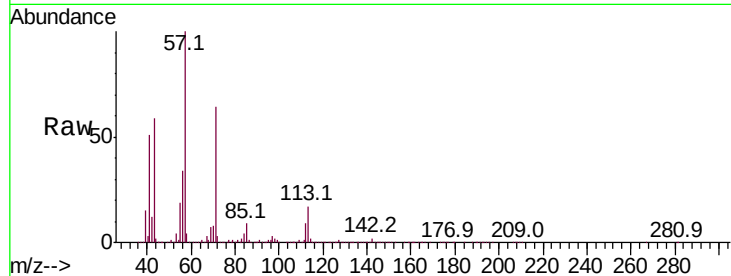
Instrument :

MSVOA_W

ClientSampleId :

SB-02(15-16)

Tot Ion:	43	Resp:	442532
Ion	Ratio	Lower	Upper
43	100		
70	18.5	31.0	46.6#
55	19.1	17.4	26.2
61	0.0	18.2	27.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 3.572 ug/l

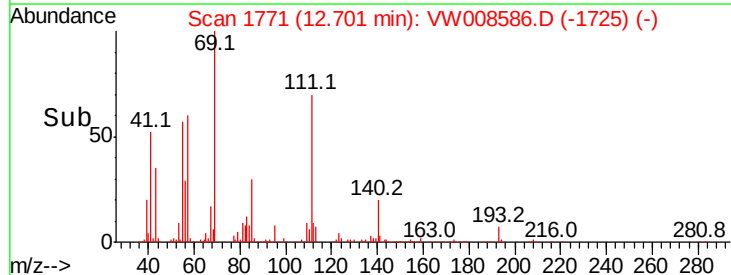
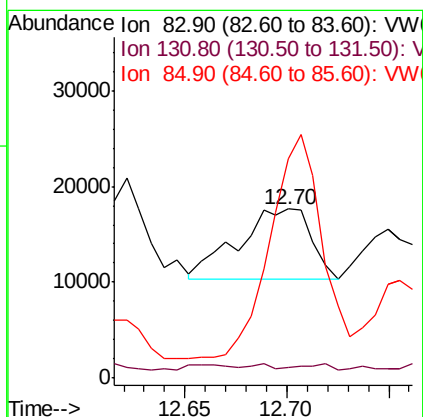
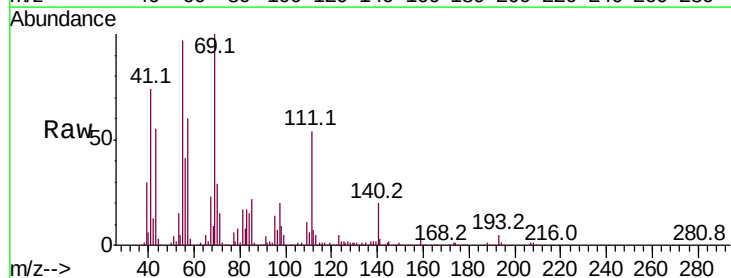
RT: 12.70 min Scan# 1771

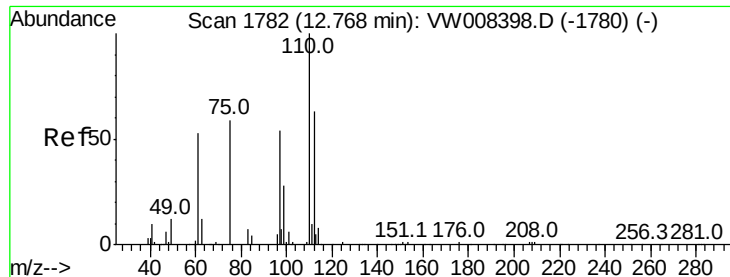
Delta R.T. -0.02 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

Tgt Ion:	83	Resp:	18147
Ion	Ratio	Lower	Upper
83	100		
131	1.2	5.5	16.4#
85	225.5	31.9	95.5#





#76

1,2,3-Trichloropropane

Concen: 56.190 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

Instrument :

MSVOA_W

ClientSampled :

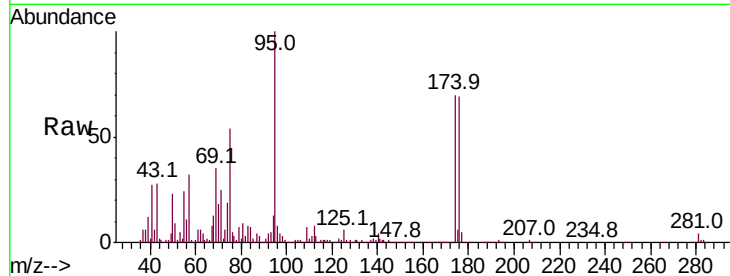
SB-02(15-16)

Tot Ion: 75 Resp: 210249

Ion Ratio Lower Upper

75 100

77 3.9 180.7 542.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

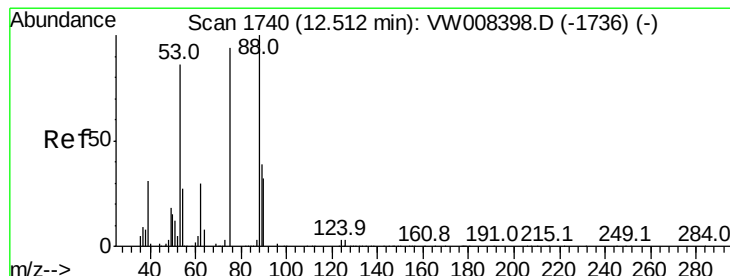
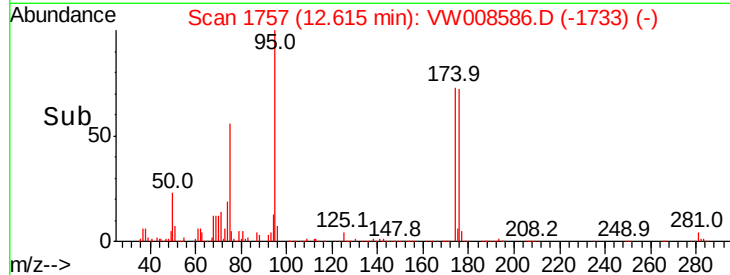
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 110.980 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

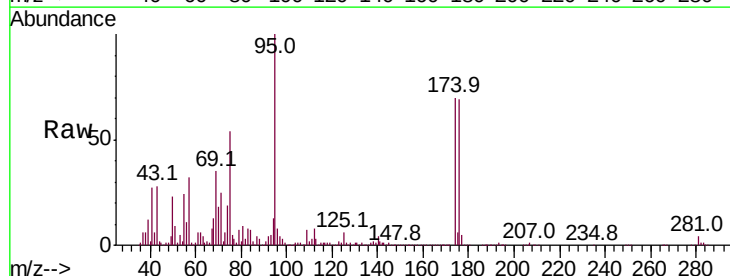
Tgt Ion: 75 Resp: 210249

Ion Ratio Lower Upper

75 100

53 5.1 76.0 114.0#

89 0.2 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

12.62

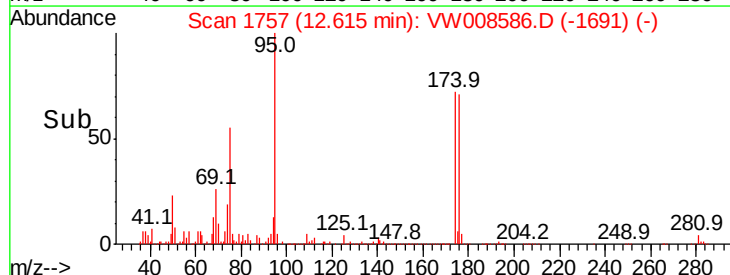
150000

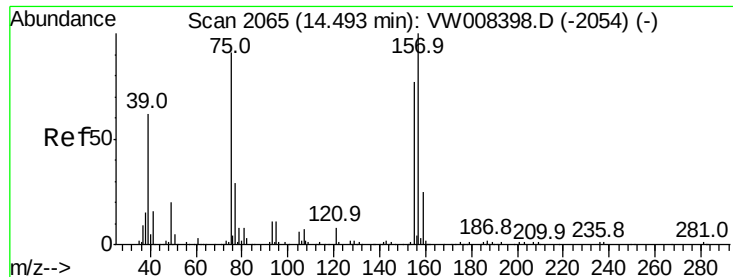
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.173 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.01 min

Lab File: VW008586.D

Acq: 08 Feb 2019 21:27

Instrument :

MSVOA_W

ClientSampleId :

SB-02(15-16)

Tot Ion: 75 Resp: 1131

Ion Ratio Lower Upper

75 100

155 156.9 42.7 128.1#

157 0.0 55.5 166.3#

