

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083119\
 Data File : VW012421.D
 Acq On : 01 Sep 2019 01:28
 Operator : SY/VA
 Sample : K4517-14
 Misc : 6.11G/5ML/MSVOA W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-S-C-(2.5)

Quant Time: Sep 01 03:41:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	13189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	19784	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	15038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	2380	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	9417	60.06	ug/l	0.00
Spiked Amount			Recovery	=	120.12%	
35) Dibromofluoromethane	7.89	113	7039	59.61	ug/l	0.00
Spiked Amount			Recovery	=	119.22%	
50) Toluene-d8	10.32	98	23025	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
62) 4-Bromofluorobenzene	12.62	95	4553	26.98	ug/l	0.00
Spiked Amount			Recovery	=	53.96%	

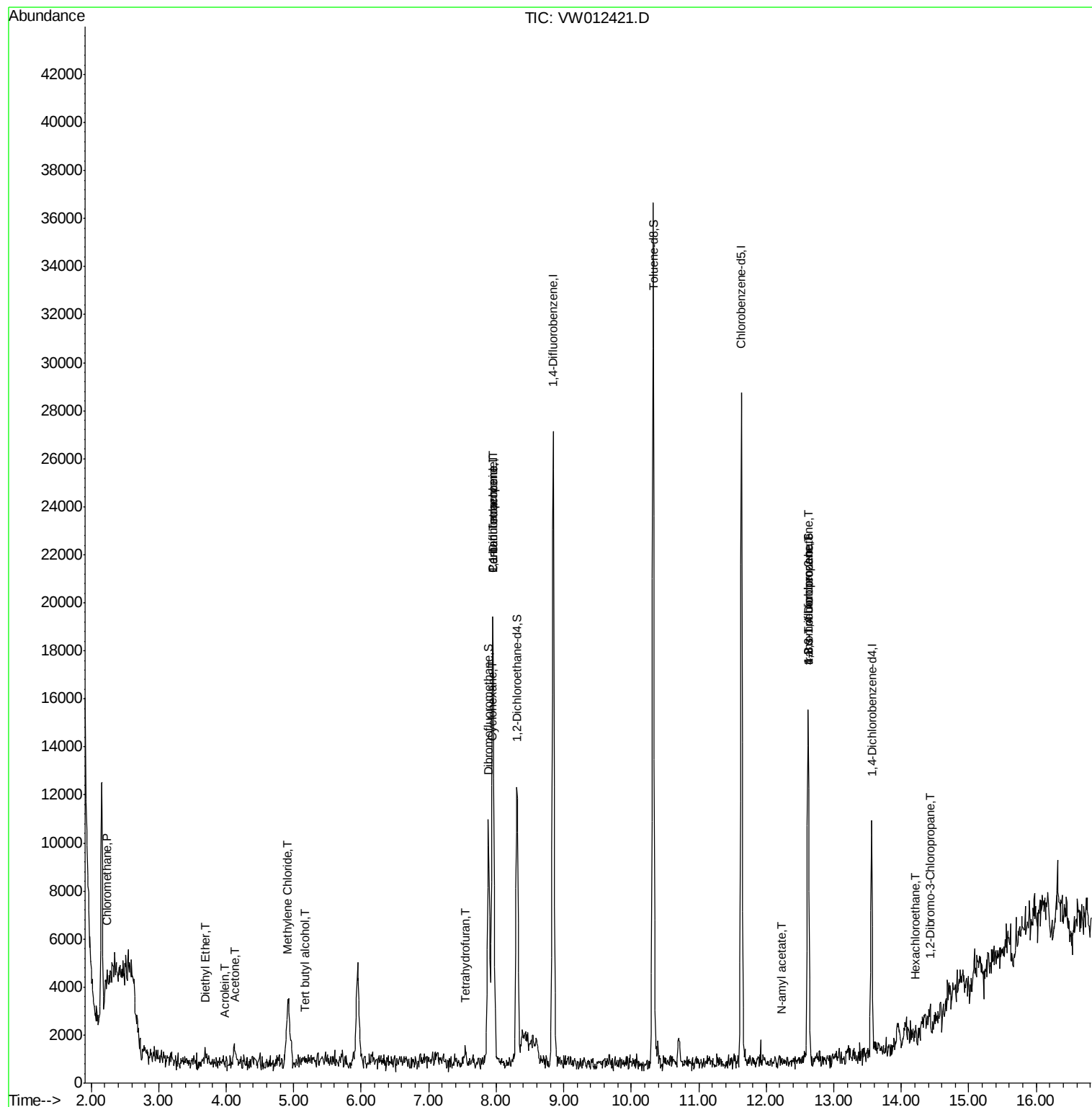
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.23	50	369	2.933	ug/l #	43
8) Diethyl Ether	3.68	74	265	3.611	ug/l #	36
11) Tert butyl alcohol	5.16	59	74	7.843	ug/l #	71
13) Acrolein	3.98	56	22	2.477	ug/l #	69
16) Acetone	4.13	43	1217	30.366	ug/l #	82
20) Methylene Chloride	4.92	84	1772	11.696	ug/l	86
29) Tetrahydrofuran	7.56	42	217	6.641	ug/l #	28
31) Cyclohexane	7.93	56	439	1.555	ug/l #	54
36) 1,1-Dichloropropene	7.95	75	1199	5.865	ug/l #	44
38) Carbon Tetrachloride	7.95	117	1579	8.923	ug/l #	12
74) N-amyl acetate	12.23	43	119	2.209	ug/l #	47
76) 1,2,3-Trichloropropane	12.62	75	2534	109.321	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	2534	239.690	ug/l #	6
90) Hexachloroethane	14.22	117	38	1.341	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.43	75	24	4.354	ug/l #	5

(#) = 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# 992

Delta R.T. 0.01 min

Lab File: VW012421.D

Acq: 01 Sep 2019 01:28

Instrument :

MSVOA_W

ClientSampleId :

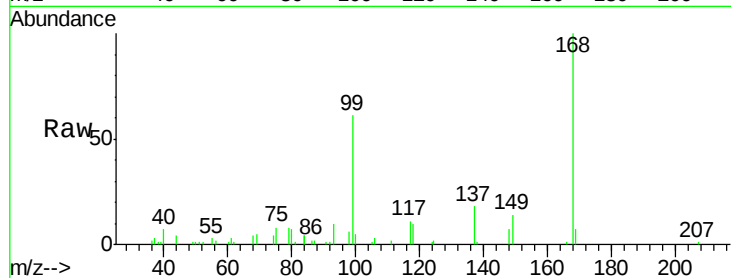
T4-S-C-(2.5)

Tot Ion:168 Resp: 13189

Ion Ratio Lower Upper

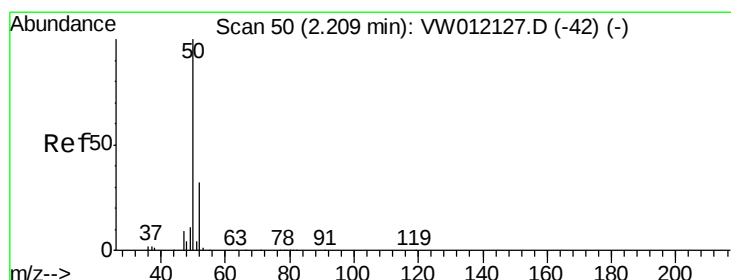
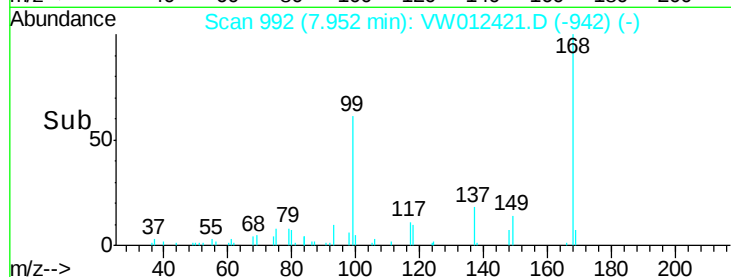
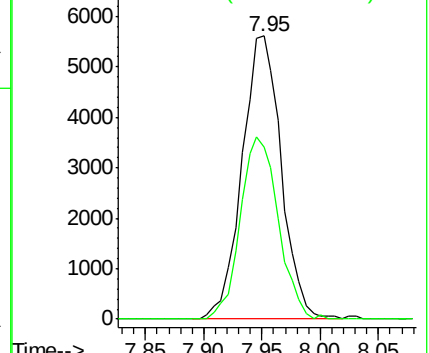
168 100

99 61.0 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 2.933 ug/l

RT: 2.23 min Scan# 54

Delta R.T. 0.02 min

Lab File: VW012421.D

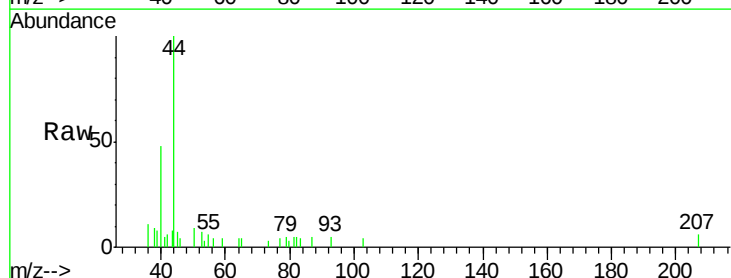
Acq: 01 Sep 2019 01:28

Tgt Ion: 50 Resp: 369

Ion Ratio Lower Upper

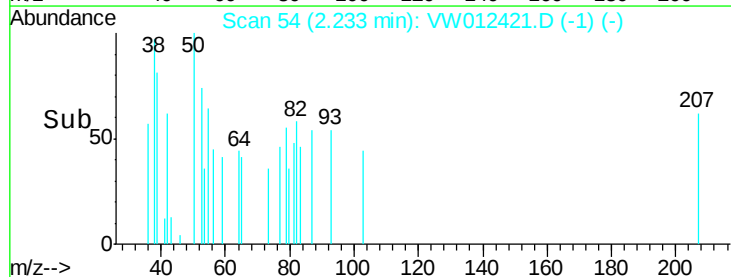
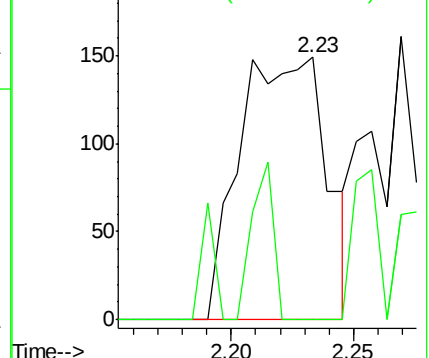
50 100

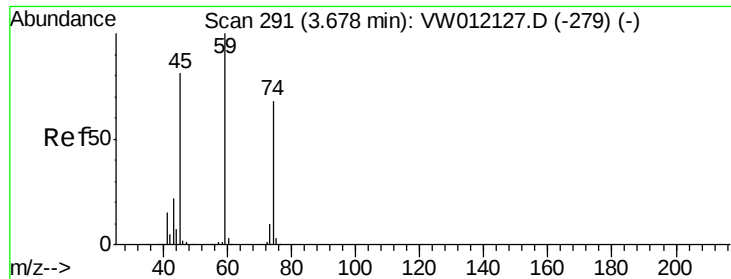
52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#8

Diethyl Ether

Concen: 3.611 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012421.D

Acq: 01 Sep 2019 01:28

Instrument :

MSVOA_W

ClientSampleId :

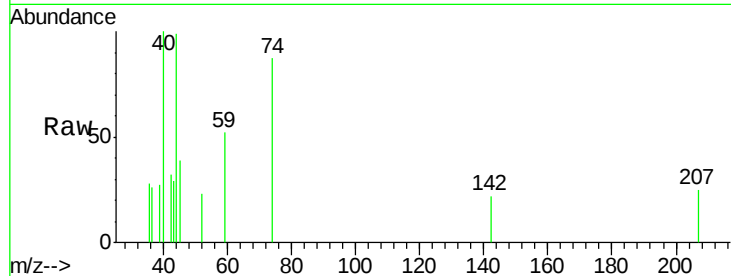
T4-S-C-(2.5)

Tot Ion: 74 Resp: 265

Ion Ratio Lower Upper

74 100

45 47.9 59.2 177.6#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

200

150

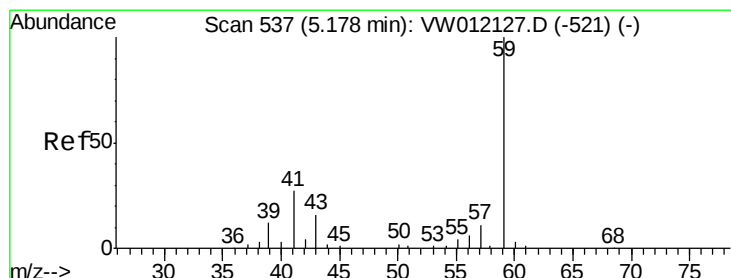
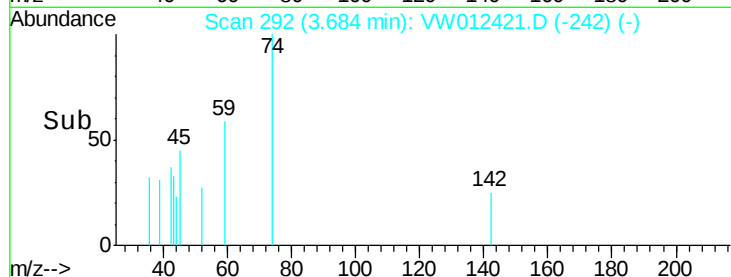
100

50

0

3.65 3.70

Time-->



#11

Tert butyl alcohol

Concen: 7.843 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.02 min

Lab File: VW012421.D

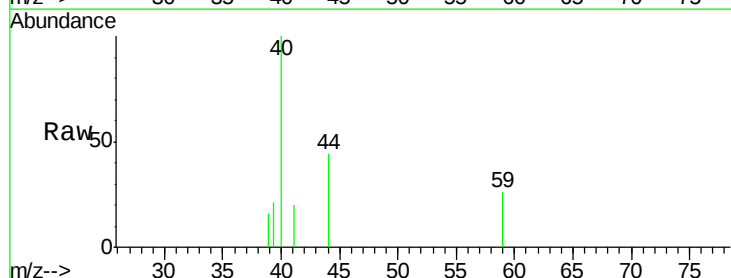
Acq: 01 Sep 2019 01:28

Tgt Ion: 59 Resp: 74

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.16

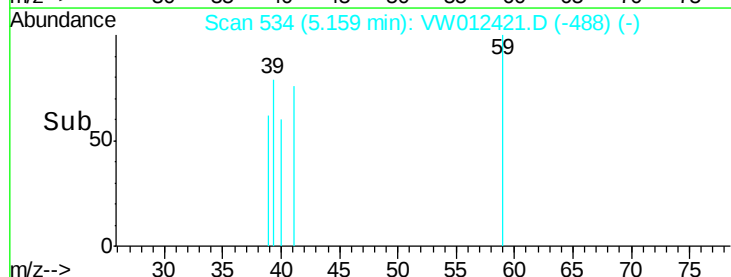
100

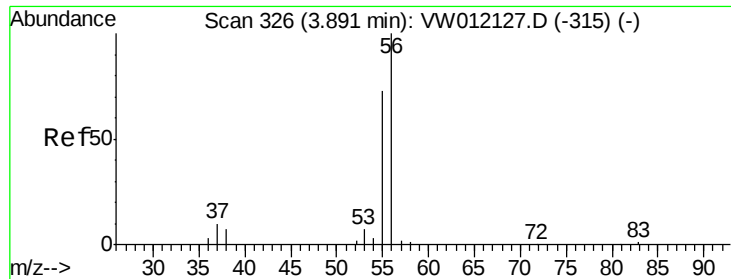
50

0

5.15 5.16 5.17 5.18

Time-->





#13

Acrolein

Concen: 2.477 ug/l

RT: 3.98 min Scan# 340

Delta R.T. 0.09 min

Lab File: VW012421.D

Acq: 01 Sep 2019 01:28

Instrument :

MSVOA_W

ClientSampleId :

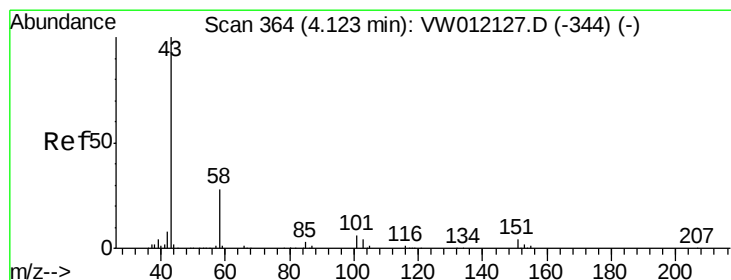
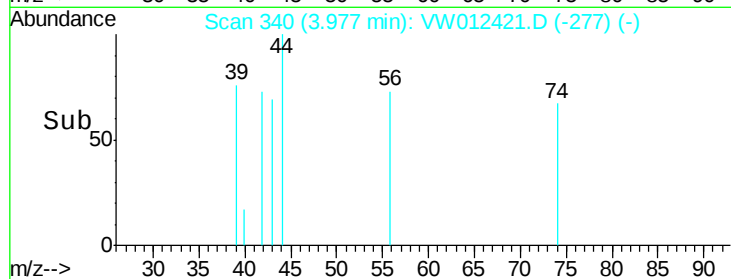
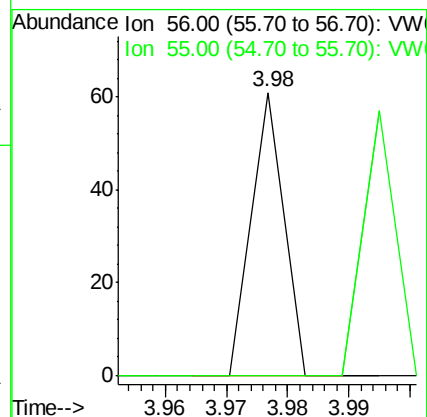
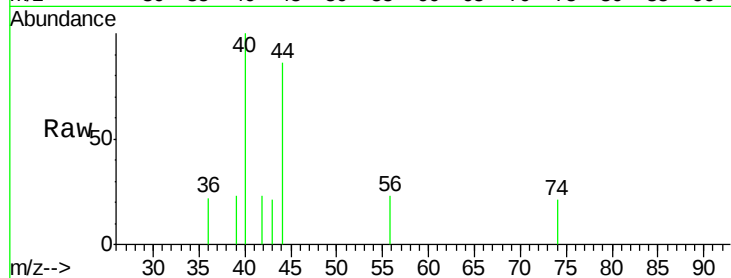
T4-S-C-(2.5)

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

56 100

55 95.5 55.8 83.8#



#16

Acetone

Concen: 30.366 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012421.D

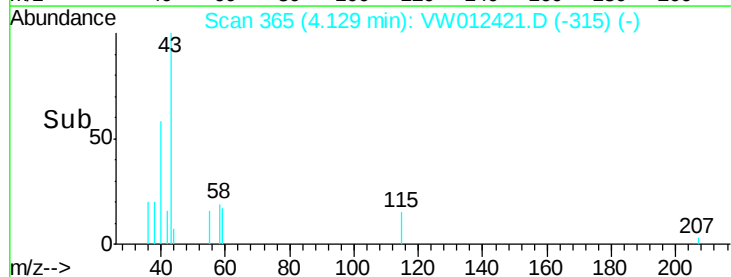
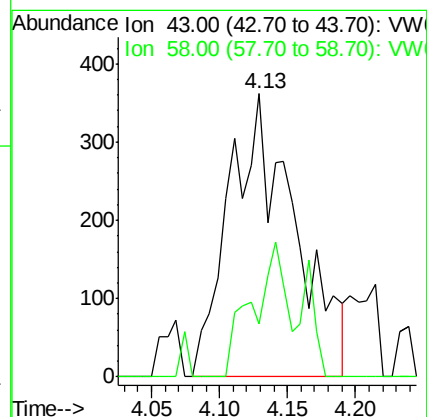
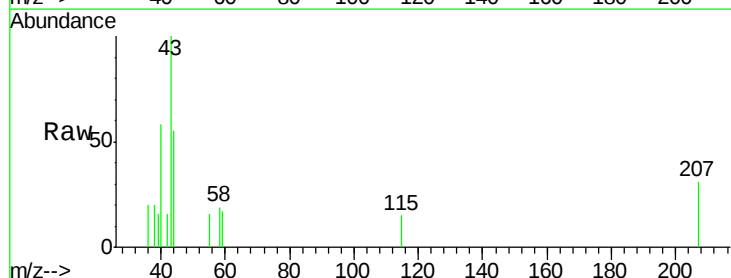
Acq: 01 Sep 2019 01:28

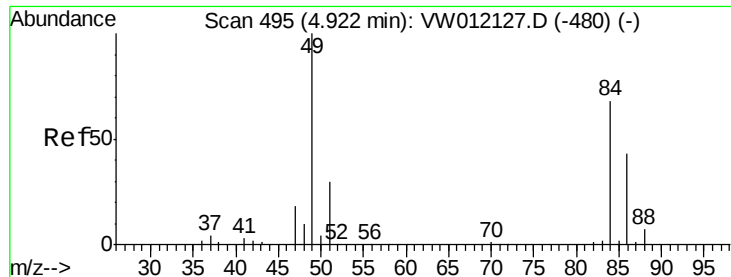
Tgt Ion: 43 Resp: 1217

Ion Ratio Lower Upper

43 100

58 18.5 22.4 33.6#

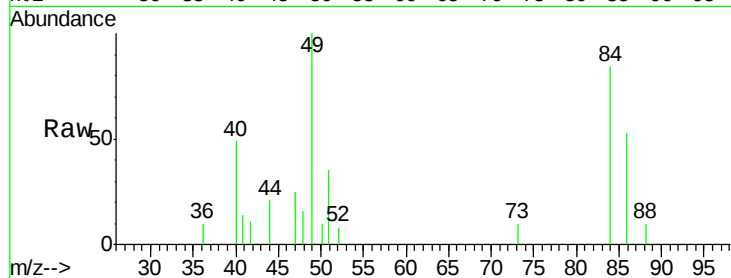




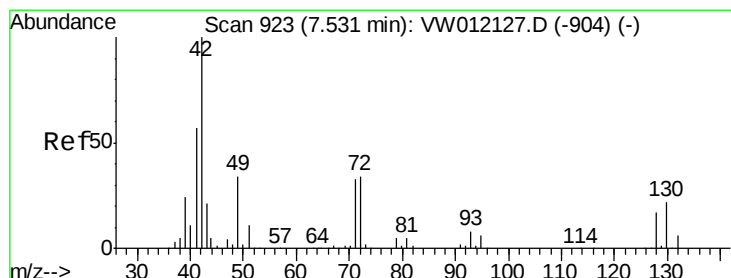
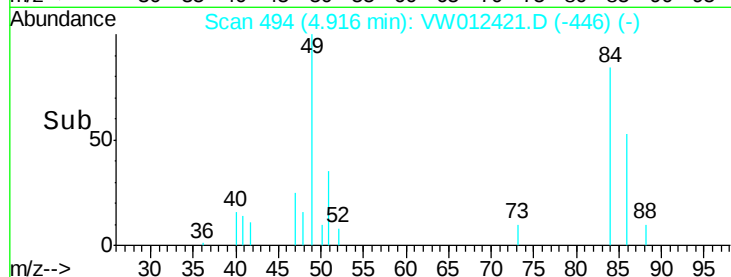
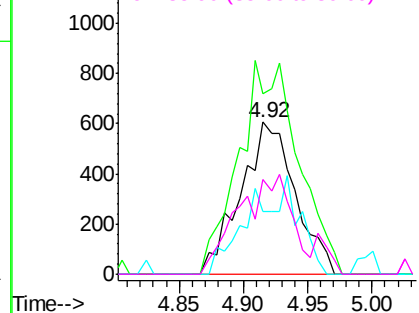
#20
Methvlene Chloride
Concen: 11.696 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012421.D
Acq: 01 Sep 2019 01:28

Instrument :
MSVOA_W
ClientSampleId :
T4-S-C-(2.5)

Tot Ion: 84 Resp: 1772
Ion Ratio Lower Upper
84 100
49 118.8 117.8 176.8
51 41.7 35.6 53.4
86 62.8 51.2 76.8

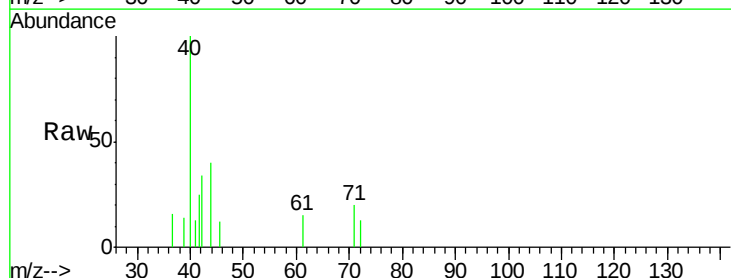


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

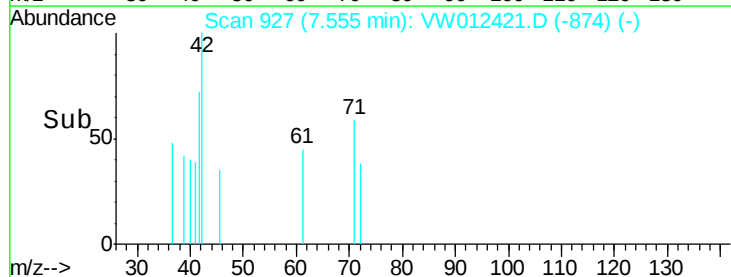
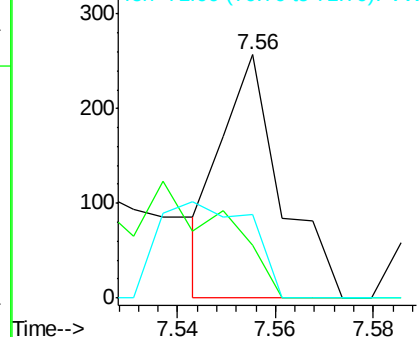


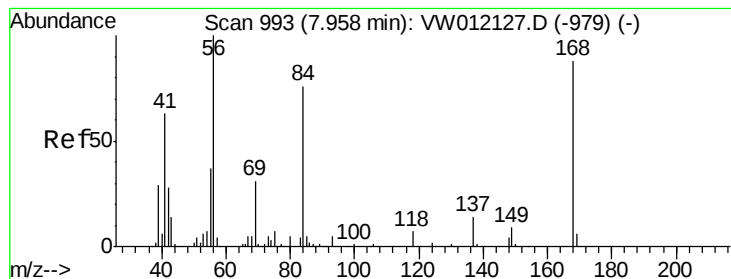
#29
Tetrahydrofuran
Concen: 6.641 ug/l
RT: 7.56 min Scan# 927
Delta R.T. 0.02 min
Lab File: VW012421.D
Acq: 01 Sep 2019 01:28

Tgt Ion: 42 Resp: 217
Ion Ratio Lower Upper
42 100
72 85.3 27.3 40.9#
71 61.3 25.5 38.3#



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: 1.555 ug/l

RT: 7.93 min Scan# 988

Delta R.T. -0.03 min

Lab File: VW012421.D

Acq: 01 Sep 2019 01:28

Instrument :

MSVOA_W

ClientSampleId :

T4-S-C-(2.5)

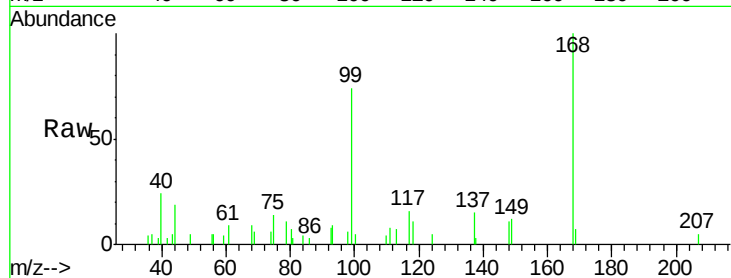
Tot Ion: 56 Resp: 439

Ion Ratio Lower Upper

56 100

69 64.2 24.9 37.3#

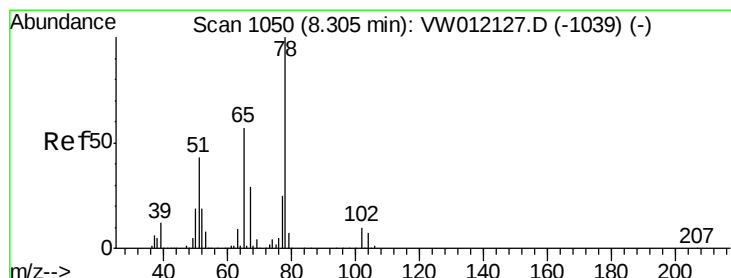
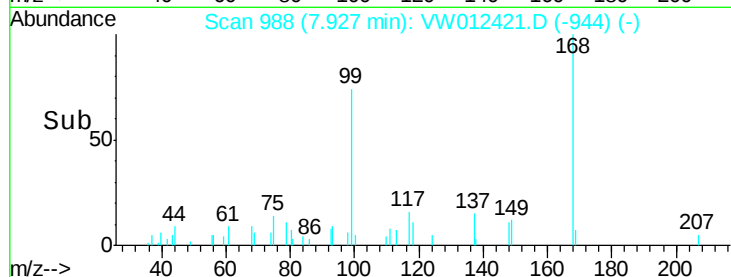
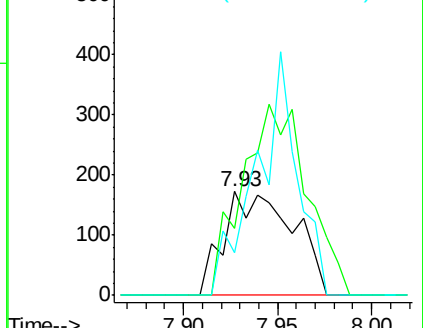
84 41.6 60.6 90.8#



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: 60.063 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012421.D

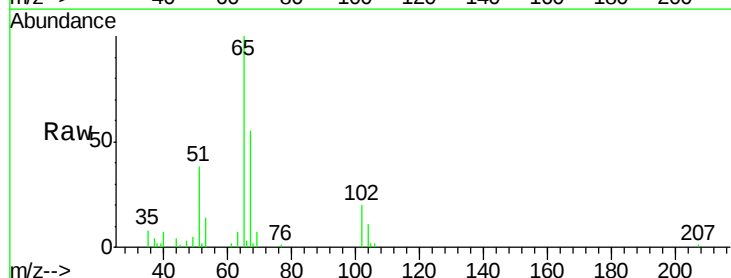
Acq: 01 Sep 2019 01:28

Tgt Ion: 65 Resp: 9417

Ion Ratio Lower Upper

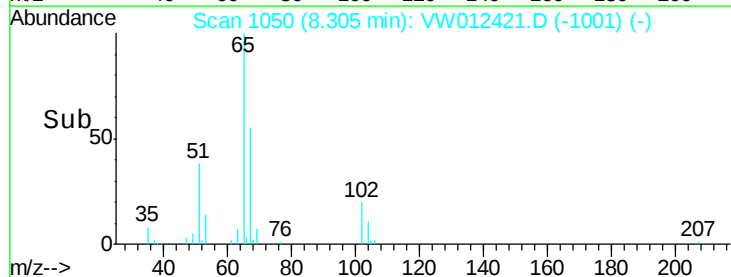
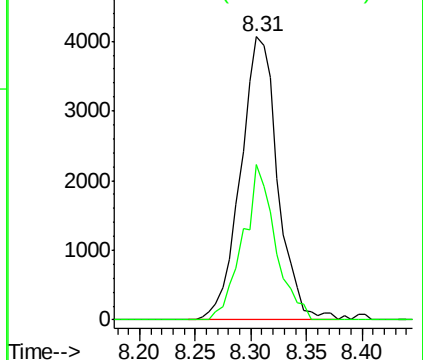
65 100

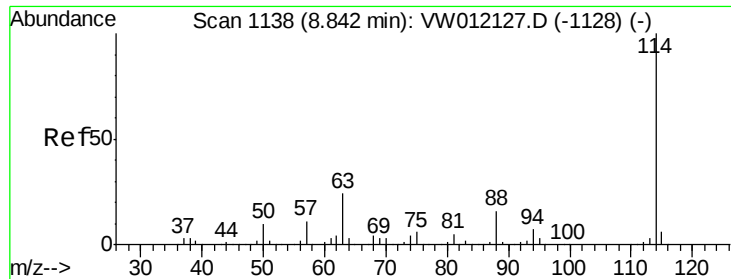
67 47.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

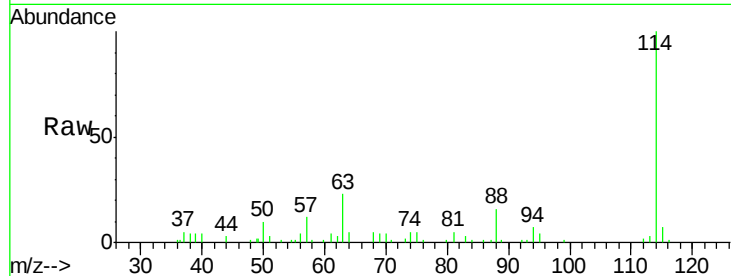




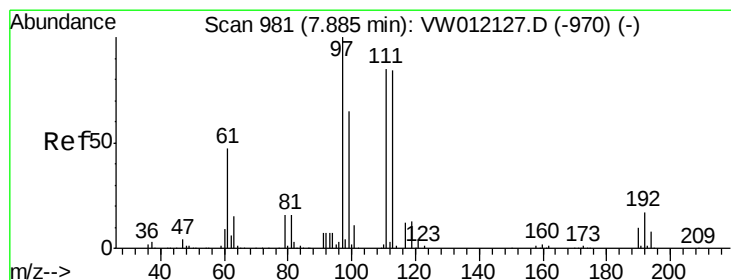
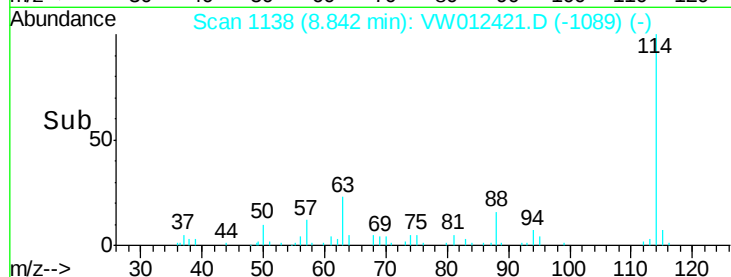
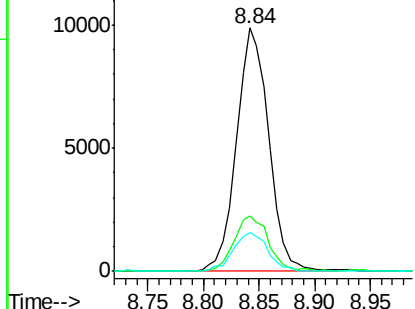
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012421.D
 Acq: 01 Sep 2019 01:28

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-S-C-(2.5)

Tot Ion:114 Resp: 19784
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 48.6
 88 15.8 0.0 32.2

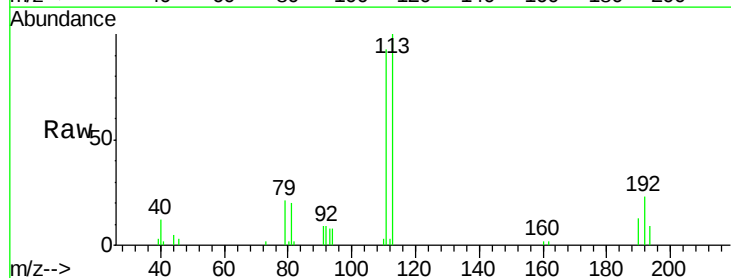


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

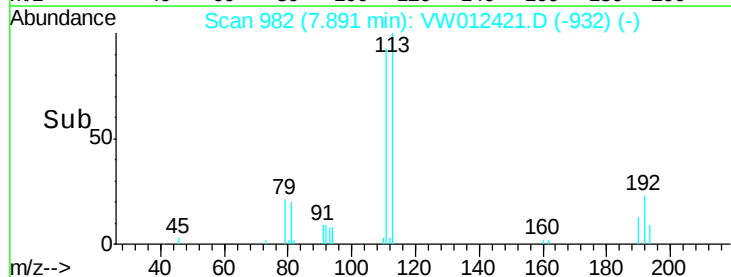
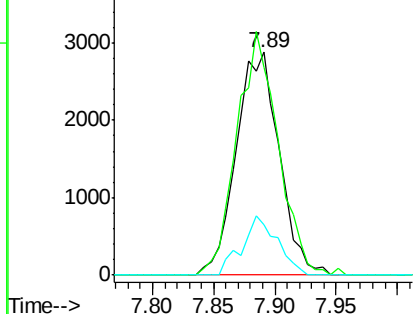


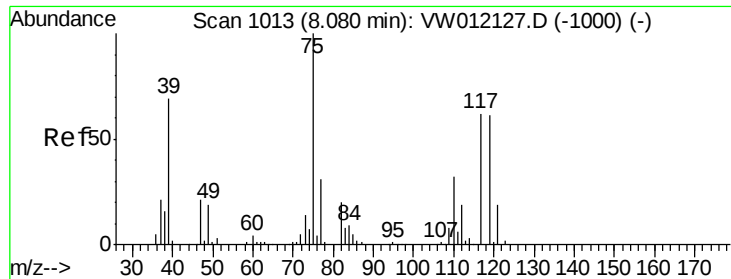
#35
 Dibromofluoromethane
 Concen: 59.606 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW012421.D
 Acq: 01 Sep 2019 01:28

Tgt Ion:113 Resp: 7039
 Ion Ratio Lower Upper
 113 100
 111 104.5 82.7 124.1
 192 21.7 16.2 24.2



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

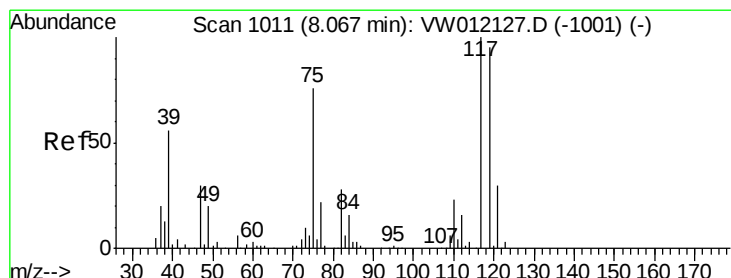
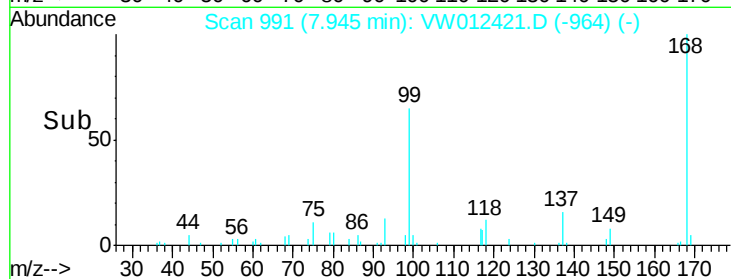
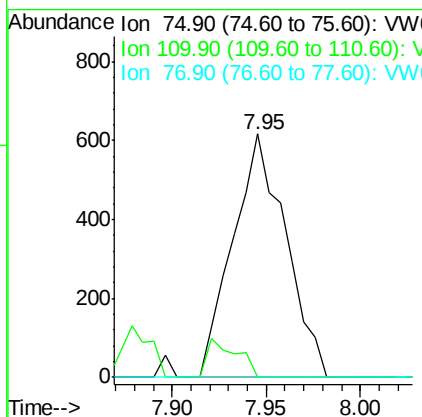
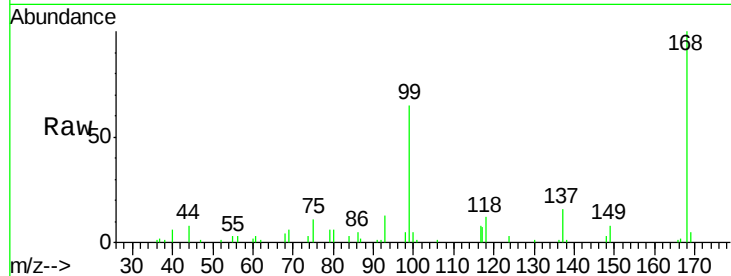




#36
 1,1-Dichloropropene
 Concen: 5.865 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012421.D
 Acq: 01 Sep 2019 01:28

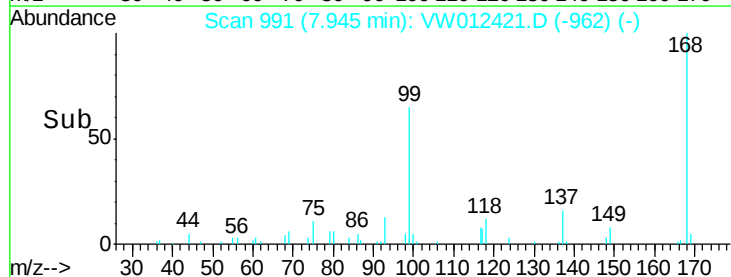
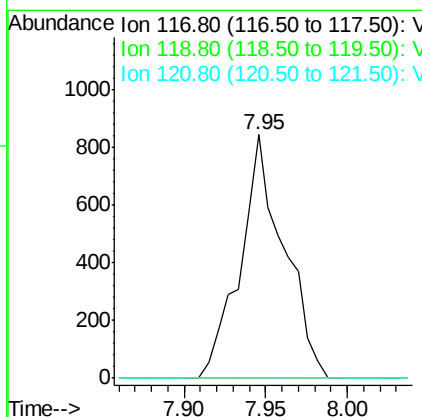
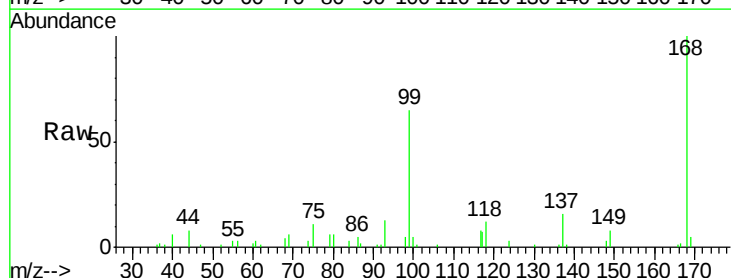
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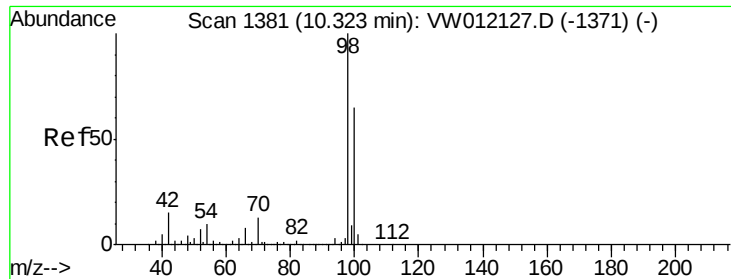
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	15.6	46.8#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 8.923 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012421.D
 Acq: 01 Sep 2019 01:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	76.2	114.2#
121	0.0	23.8	35.8#





#50

Toluene-d8

Concen: 48.086 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012421.D

Acq: 01 Sep 2019 01:28

Instrument :

MSVOA_W

ClientSampled :

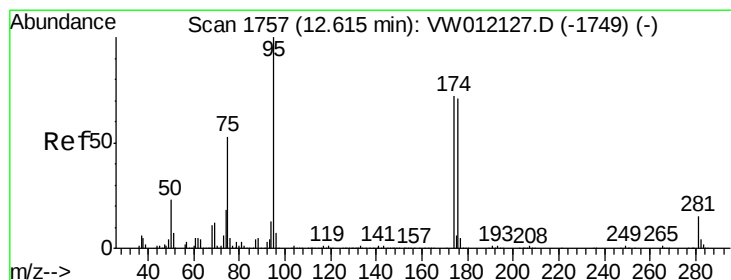
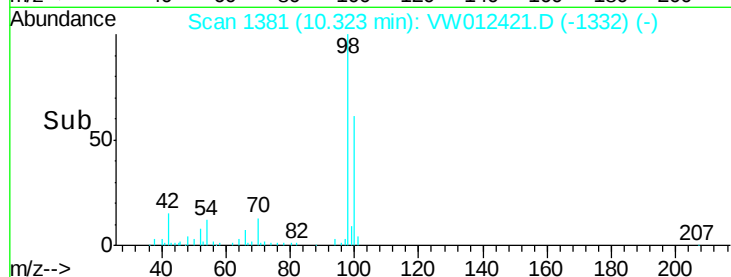
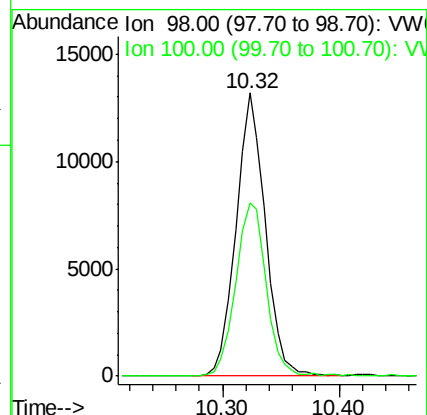
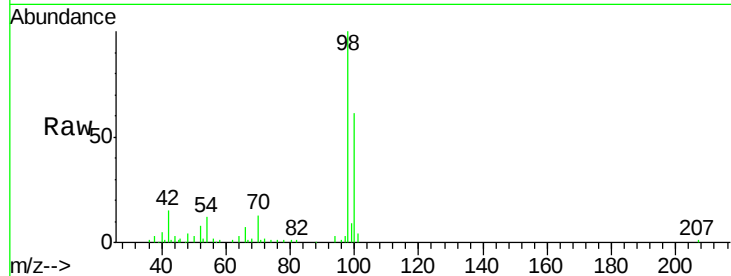
T4-S-C-(2.5)

Tot Ion: 98 Resp: 23025

Ion Ratio Lower Upper

98 100

100 63.8 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 26.975 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012421.D

Acq: 01 Sep 2019 01:28

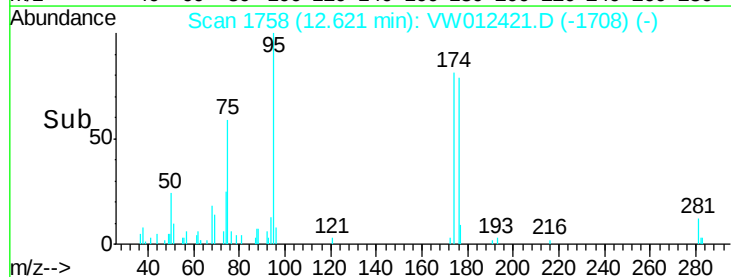
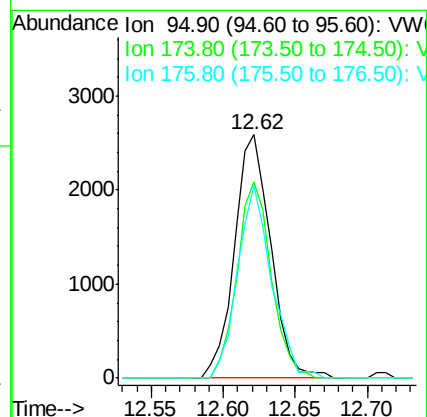
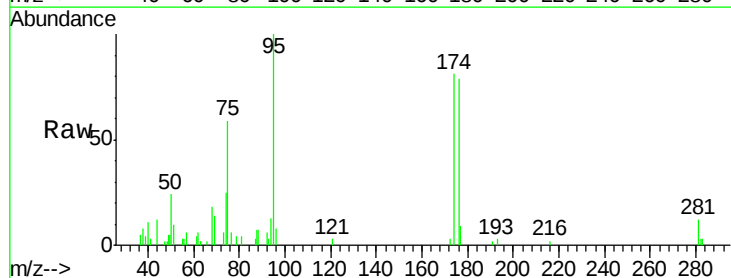
Tgt Ion: 95 Resp: 4553

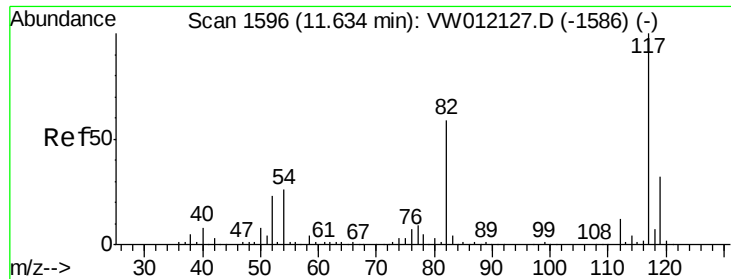
Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.8

176 74.3 0.0 148.6

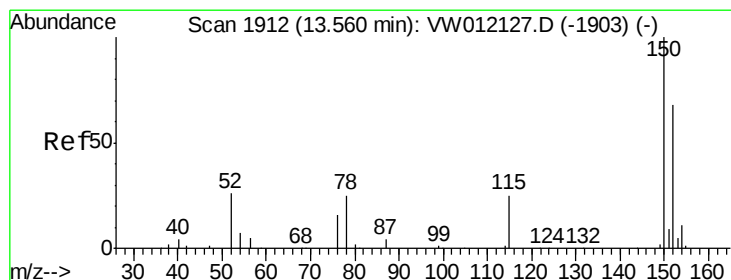
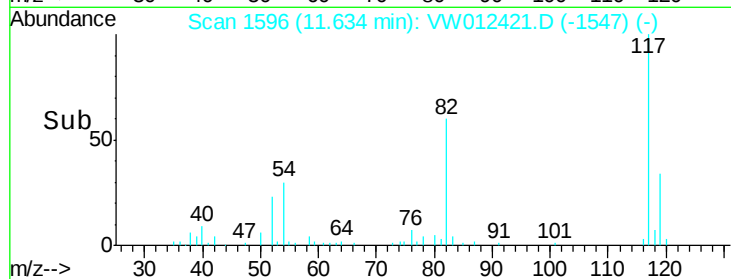
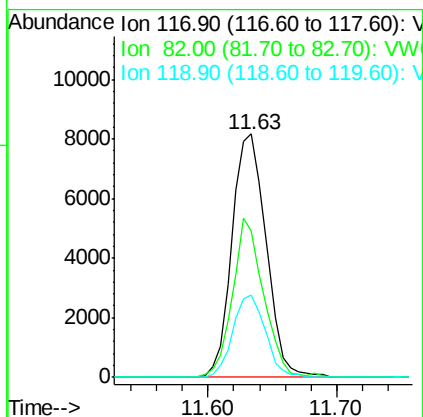
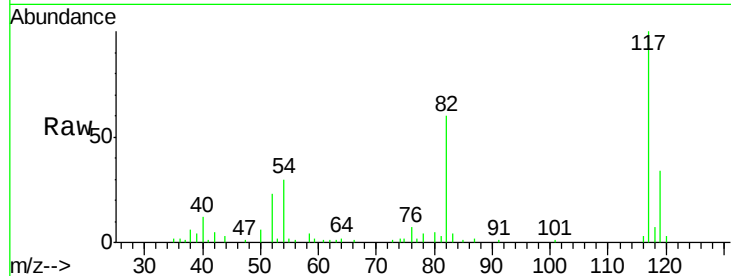




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012421.D
Acq: 01 Sep 2019 01:28

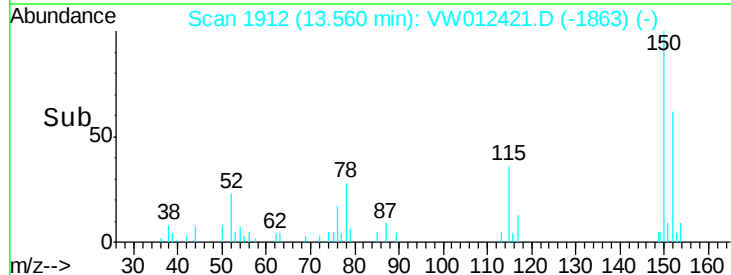
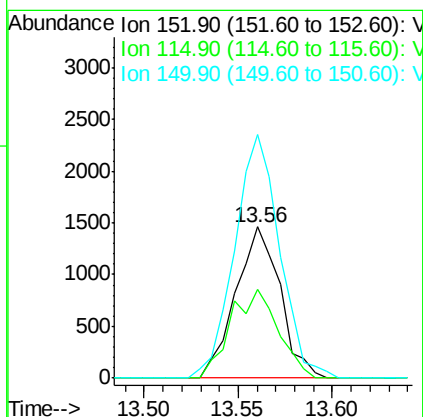
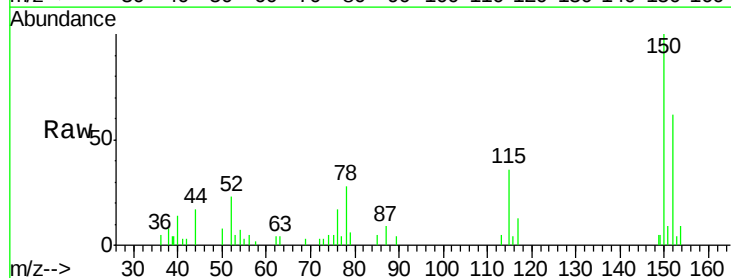
Instrument :
MSVOA_W
ClientSampleId :
T4-S-C-(2.5)

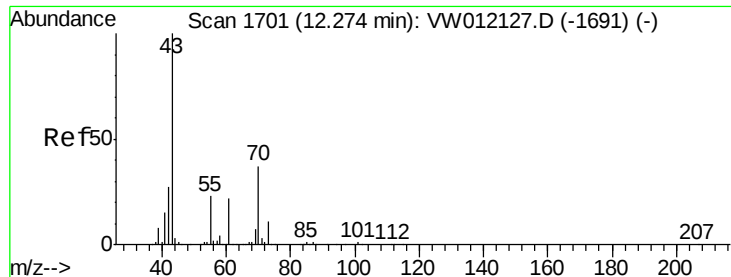
Tot Ion:117 Resp: 15038
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 33.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012421.D
Acq: 01 Sep 2019 01:28

Tgt Ion:152 Resp: 2380
Ion Ratio Lower Upper
152 100
115 62.7 30.1 90.3
150 163.0 0.0 345.8

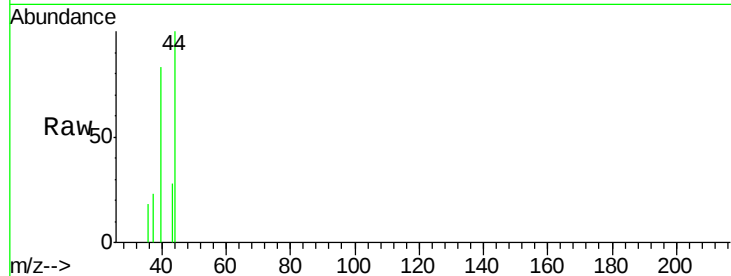




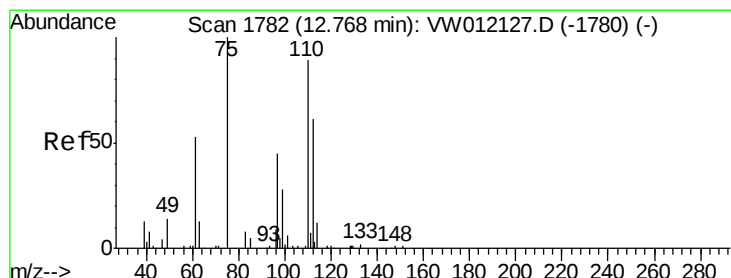
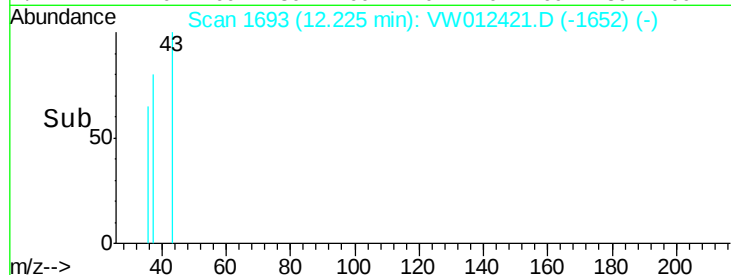
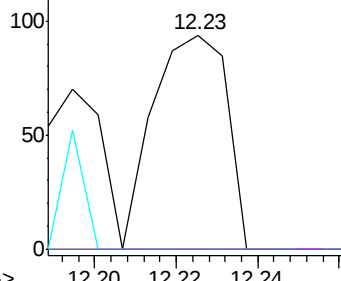
#74
N-amvl acetate
Concen: 2.209 ug/l
RT: 12.23 min Scan# 1693
Delta R.T. -0.05 min
Lab File: VW012421.D
Acq: 01 Sep 2019 01:28

Instrument :
MSVOA_W
ClientSampleId :
T4-S-C-(2.5)

Tot Ion: 43 Resp: 119
Ion Ratio Lower Upper
43 100
70 0.0 28.6 43.0#
55 0.0 17.8 26.6#
61 0.0 17.3 25.9#

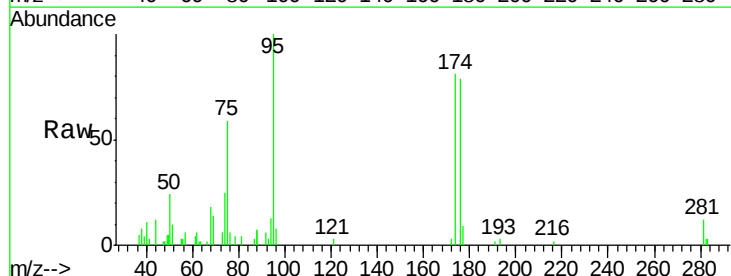


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 70.00 (69.70 to 70.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 61.00 (60.70 to 61.70): VW

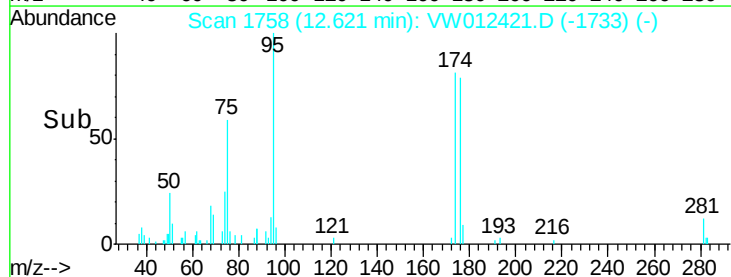
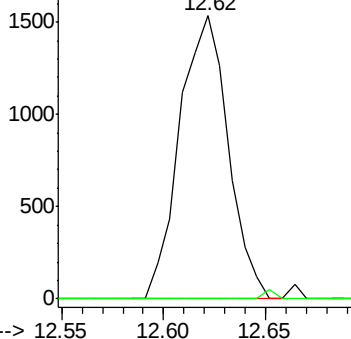


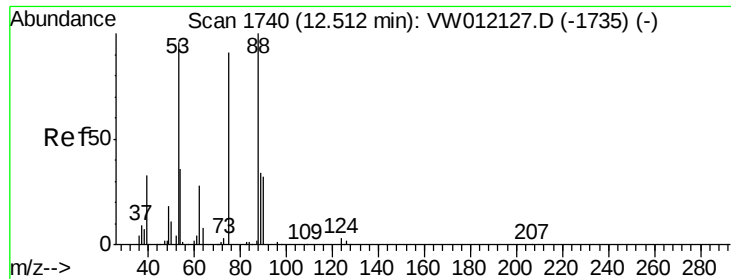
#76
1,2,3-Trichloropropane
Concen: 109.321 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW012421.D
Acq: 01 Sep 2019 01:28

Tgt Ion: 75 Resp: 2534
Ion Ratio Lower Upper
75 100
77 0.0 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: 239.690 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012421.D

Acq: 01 Sep 2019 01:28

Instrument :

MSVOA_W

ClientSampleId :

T4-S-C-(2.5)

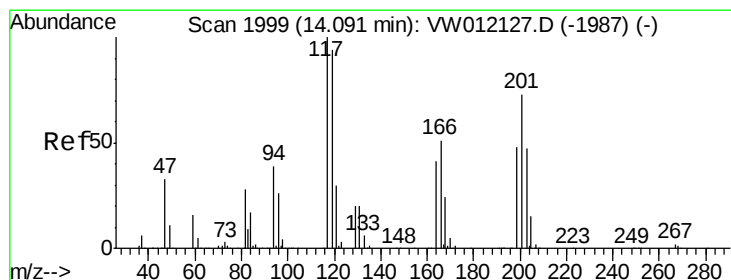
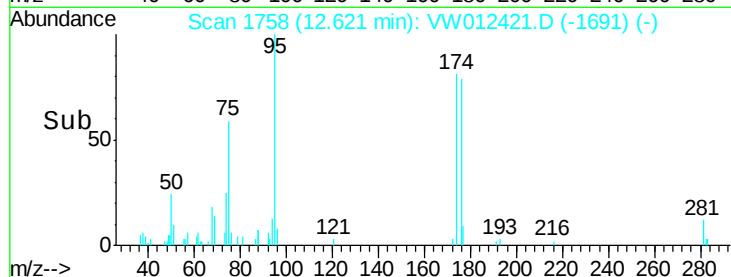
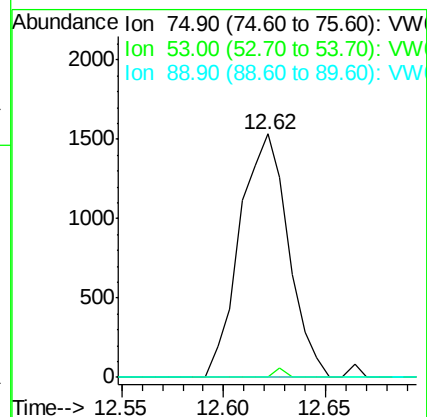
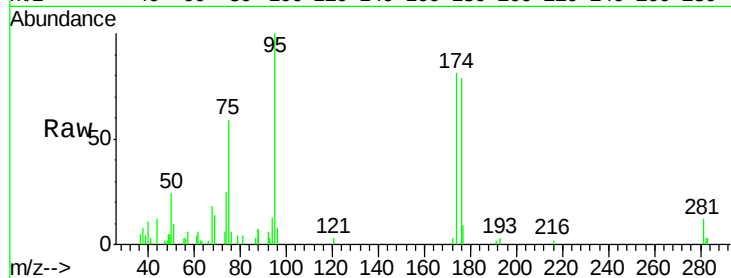
Tot Ion: 75 Resp: 2534

Ion Ratio Lower Upper

75 100

53 0.9 89.4 134.0#

89 0.0 34.5 51.7#



#90

Hexachloroethane

Concen: 1.341 ug/l

RT: 14.22 min Scan# 2020

Delta R.T. 0.13 min

Lab File: VW012421.D

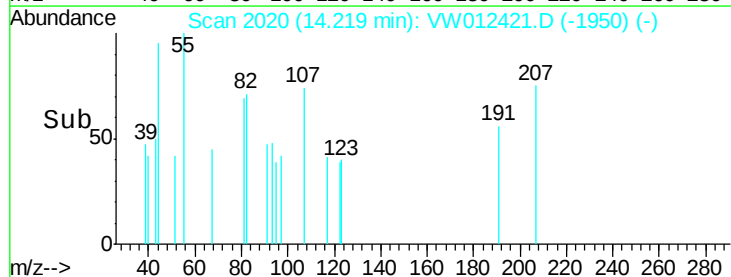
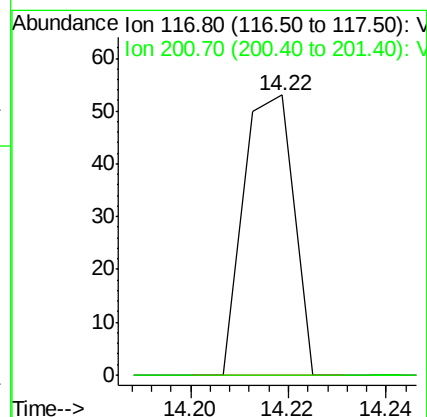
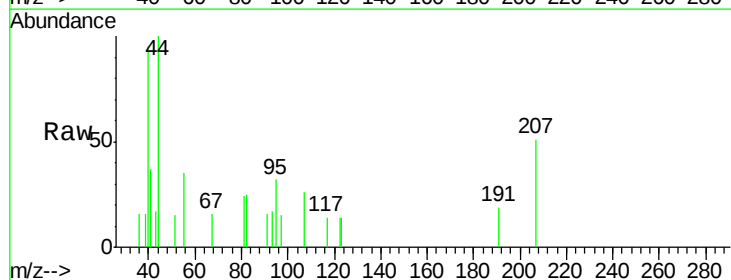
Acq: 01 Sep 2019 01:28

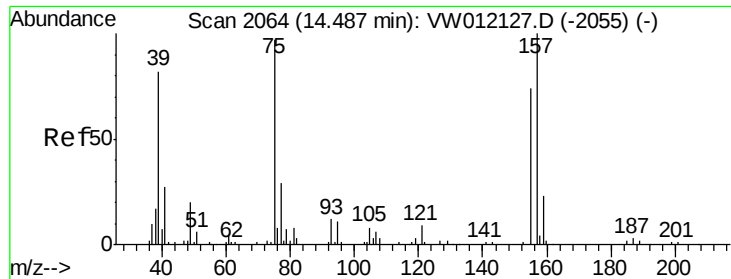
Tgt Ion: 117 Resp: 38

Ion Ratio Lower Upper

117 100

201 0.0 38.6 115.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.354 ug/l

RT: 14.43 min Scan# 2054

Delta R.T. -0.06 min

Lab File: VW012421.D

Acq: 01 Sep 2019 01:28

Instrument :

MSVOA_W

ClientSampleId :

T4-S-C-(2.5)

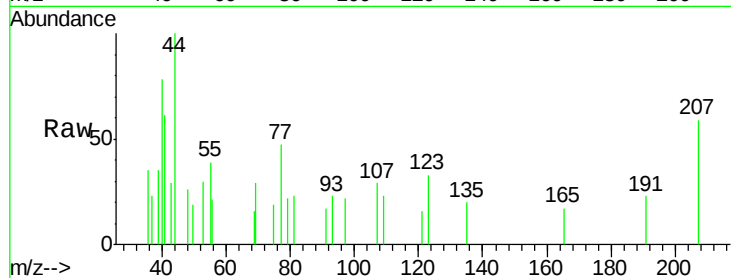
Tot Ion: 75 Resp: 24

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.3#

157 0.0 50.5 151.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

