

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW040419\
 Data File : VW009692.D
 Acq On : 04 Apr 2019 13:18
 Operator : SY/VA
 Sample : K2197-01
 Misc : 5.40G/5ML/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-040219-A

Quant Time: Apr 05 05:44:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W032919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 29 13:24:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	301372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	500193	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	432340	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	165202	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	143884	41.75	ug/l	0.00
Spiked Amount			Recovery	=	83.50%	
35) Dibromofluoromethane	7.88	113	118168	37.61	ug/l	0.00
Spiked Amount			Recovery	=	75.22%	
50) Toluene-d8	10.32	98	402736	34.68	ug/l	0.00
Spiked Amount			Recovery	=	69.36%	
62) 4-Bromofluorobenzene	12.62	95	121506	28.05	ug/l	0.00
Spiked Amount			Recovery	=	56.10%	

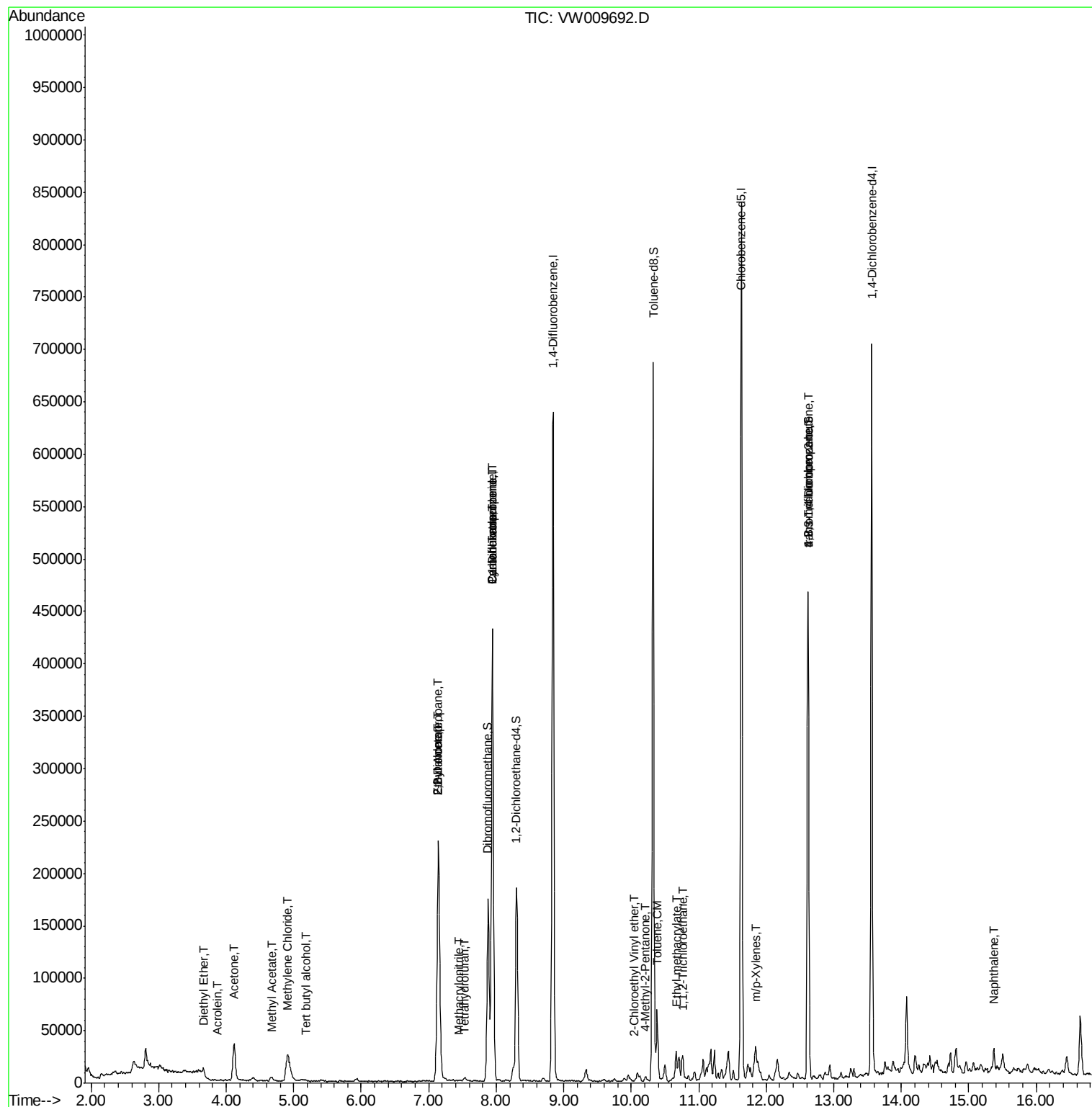
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.14	85	64	Below Cal	#	41
8) Diethyl Ether	3.67	74	1911	1.228	ug/l	86
11) Tert butyl alcohol	5.18	59	1504	7.527	ug/l #	79
13) Acrolein	3.88	56	196	1.337	ug/l #	1
16) Acetone	4.12	43	63249	81.628	ug/l	91
18) Methyl Acetate	4.68	43	9068	4.841	ug/l #	85
20) Methylene Chloride	4.91	84	23524	4.184	ug/l	91
25) 2-Butanone	7.15	43	20741	19.371	ug/l #	75
26) 2,2-Dichloropropane	7.14	77	14822	4.287	ug/l #	52
29) Tetrahydrofuran	7.54	42	2355	3.542	ug/l #	80
31) Cyclohexane	7.95	56	9027	1.592	ug/l #	44
36) 1,1-Dichloropropene	7.94	75	26979	5.215	ug/l #	51
37) Ethyl Acetate	7.15	43	20741	8.438	ug/l #	30
38) Carbon Tetrachloride	7.95	117	33135	6.250	ug/l #	17
41) Methacrylonitrile	7.46	41	112	3.986	ug/l #	68
51) 4-Methyl-2-Pentanone	10.22	43	2730	1.059	ug/l	98
52) Toluene	10.38	92	25612	2.918	ug/l	99
55) 1,1,2-Trichloroethane	10.76	97	7775	2.960	ug/l #	23
56) Ethyl methacrylate	10.66	69	2831	4.516	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.04	63	63	17.050	ug/l #	46
68) m/p-Xylenes	11.84	106	6219	1.021	ug/l	91
76) 1,2,3-Trichloropropane	12.62	75	71641	46.115	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	71641	107.239	ug/l #	7
95) Naphthalene	15.37	128	17850	5.360	ug/l #	94

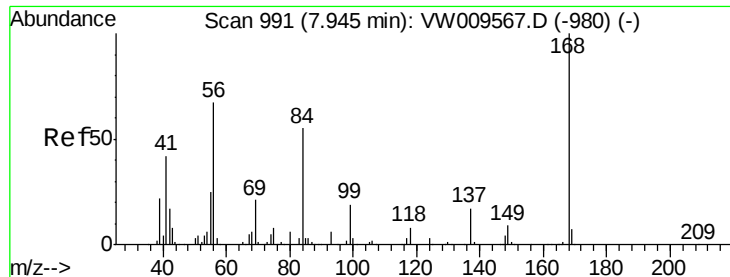
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW009692.D

Acq: 04 Apr 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

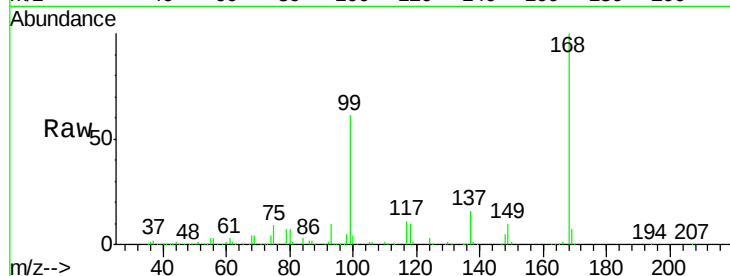
CL-02-040219-A

Tgt Ion:168 Resp: 301372

Ion Ratio Lower Upper

168 100

99 61.0 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

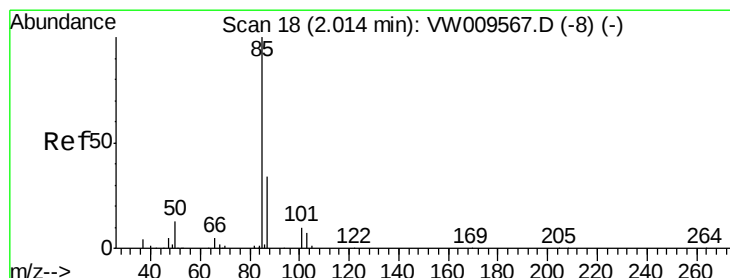
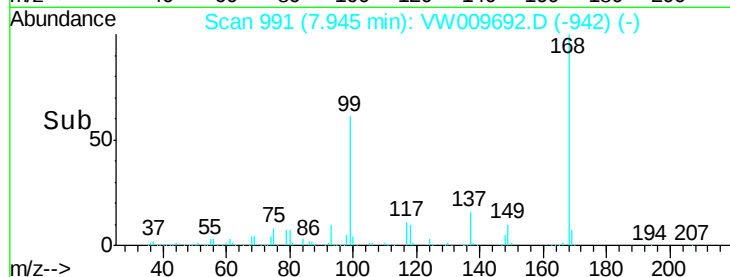
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.14 min Scan# 39

Delta R.T. 0.13 min

Lab File: VW009692.D

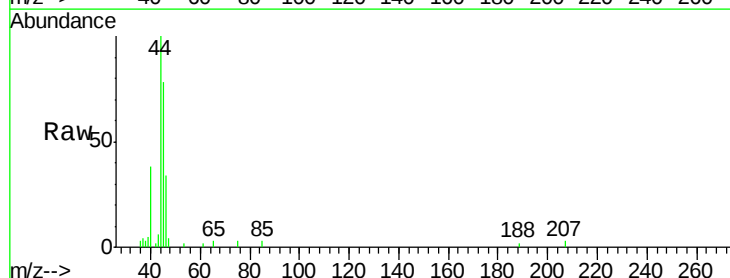
Acq: 04 Apr 2019 13:18

Tgt Ion: 85 Resp: 64

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

2.14

100

80

60

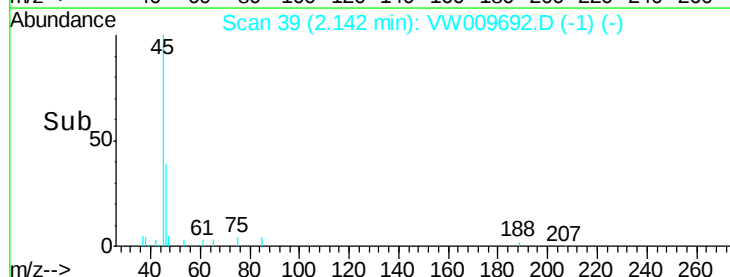
40

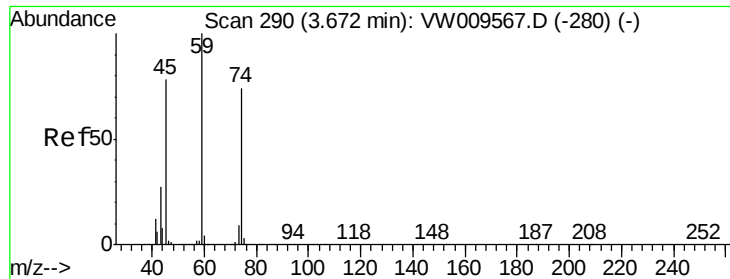
20

0

2.12 2.14 2.16

Time-->





#8

Diethyl Ether

Concen: 1.228 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.00 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

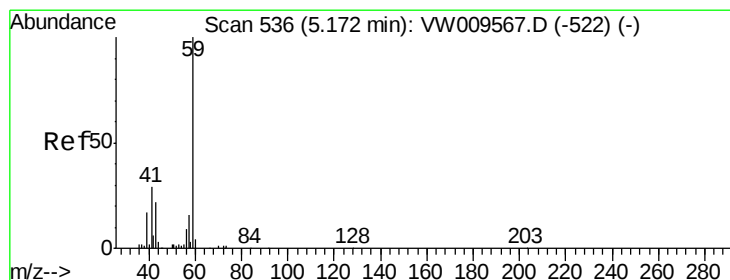
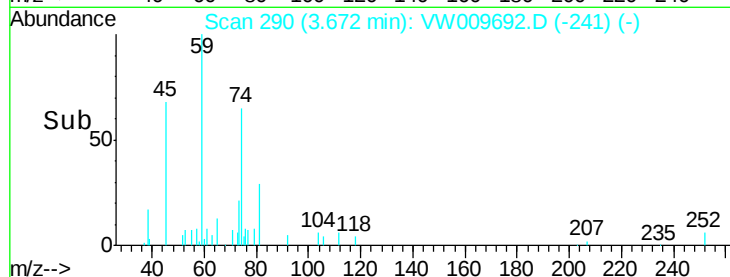
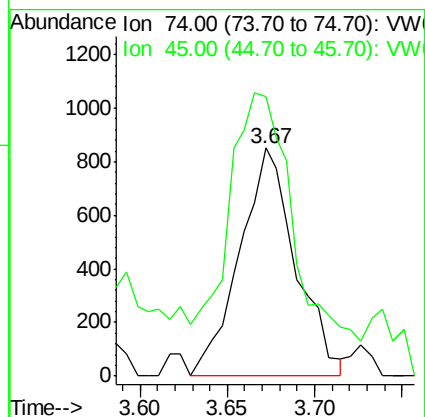
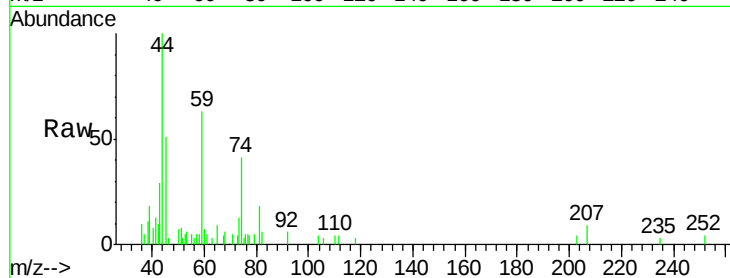
CL-02-040219-A

Tgt Ion: 74 Resp: 1911

Ion Ratio Lower Upper

74 100

45 115.2 50.6 151.9



#11

Tert butyl alcohol

Concen: 7.527 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW009692.D

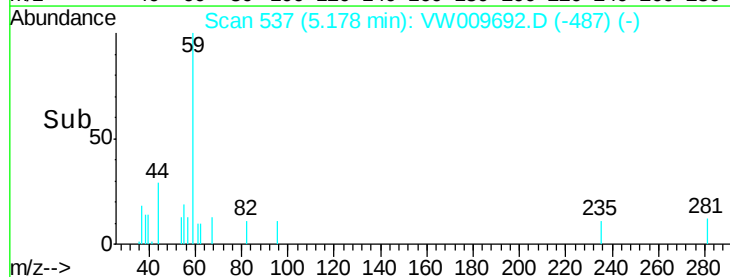
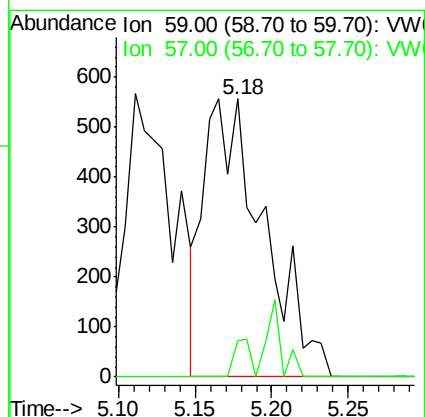
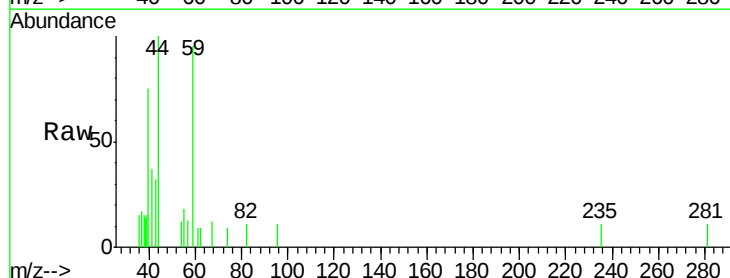
Acq: 04 Apr 2019 13:18

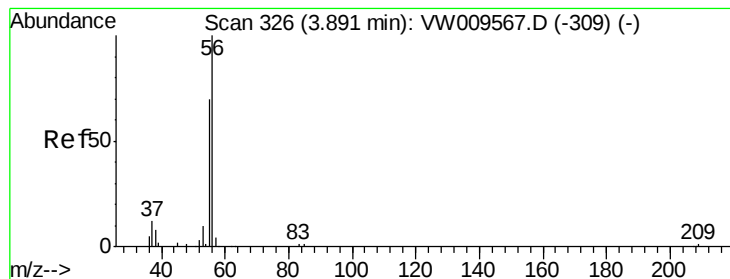
Tgt Ion: 59 Resp: 1504

Ion Ratio Lower Upper

59 100

57 3.6 9.4 14.0#





#13

Acrolein

Concen: 1.337 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

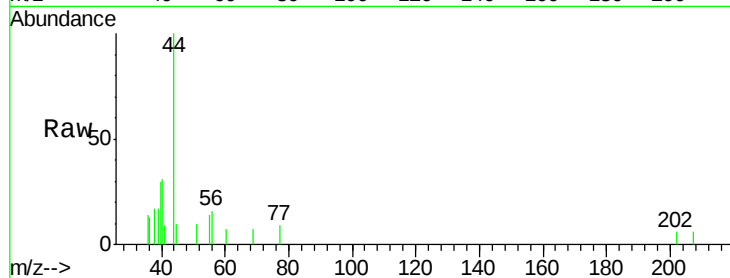
CL-02-040219-A

Tgt Ion: 56 Resp: 196

Ion Ratio Lower Upper

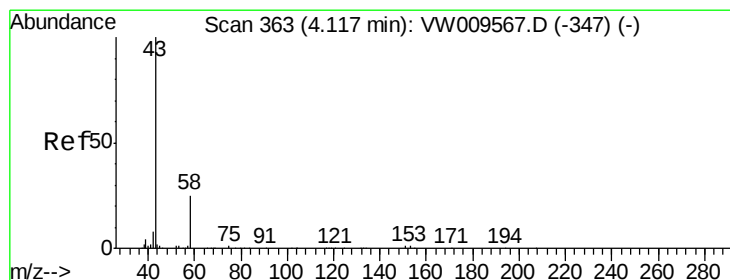
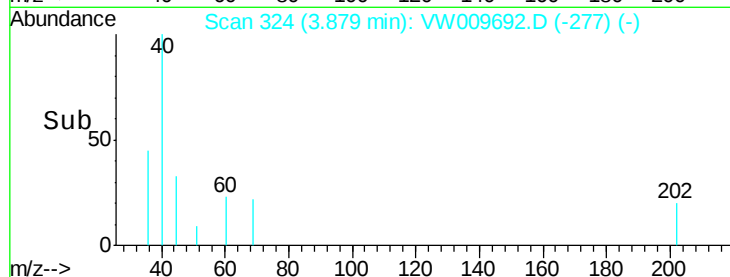
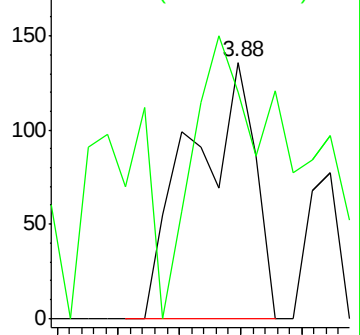
56 100

55 179.1 55.2 82.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 81.628 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW009692.D

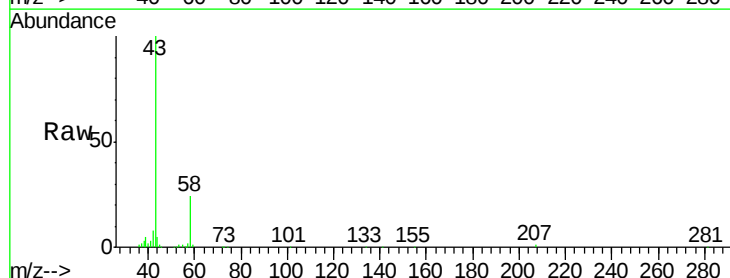
Acq: 04 Apr 2019 13:18

Tgt Ion: 43 Resp: 63249

Ion Ratio Lower Upper

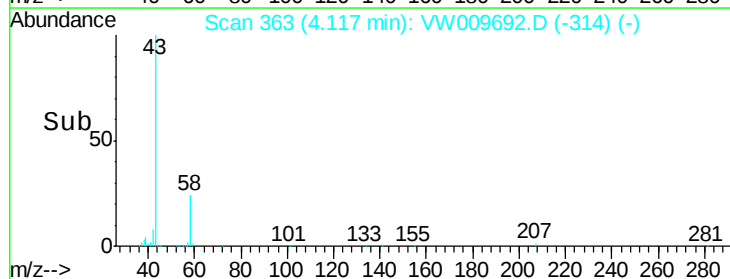
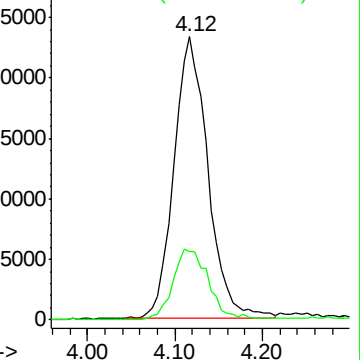
43 100

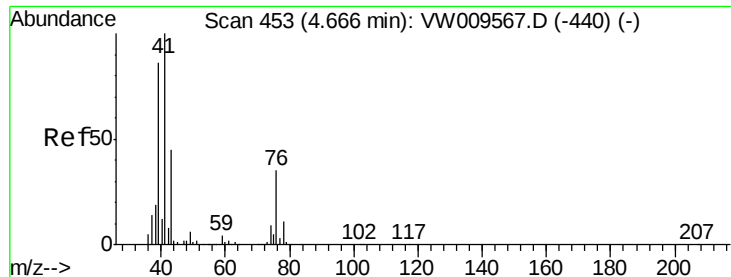
58 24.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

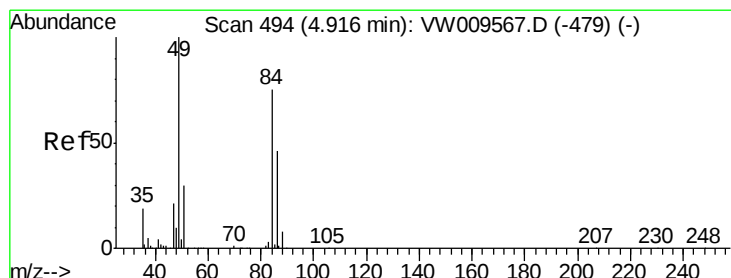
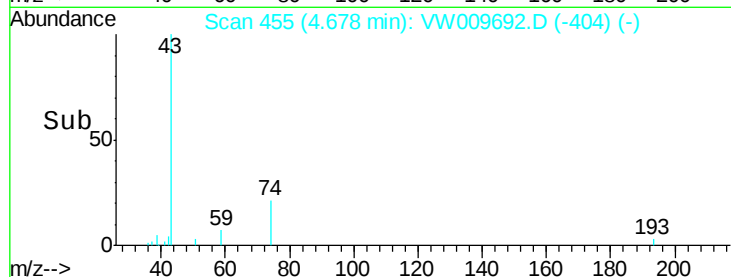
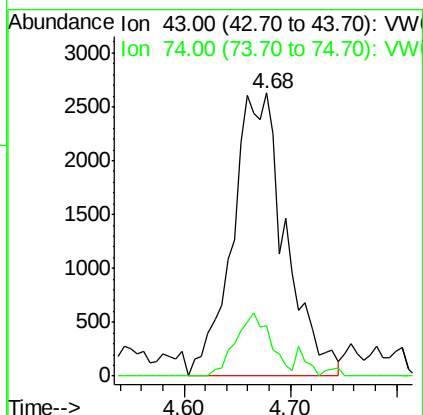
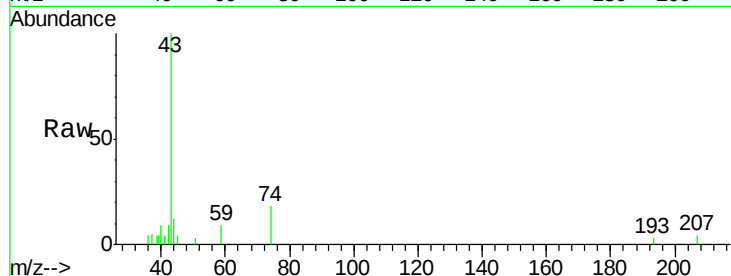




#18
Methyl Acetate
Concen: 4.841 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW009692.D
Acq: 04 Apr 2019 13:18

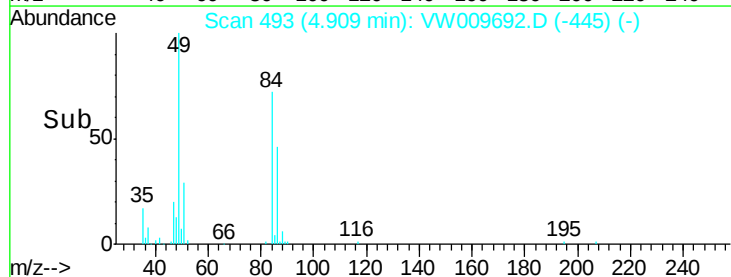
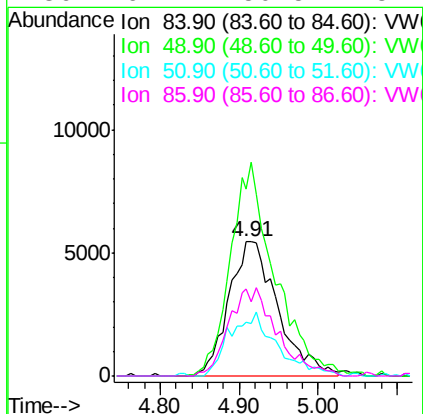
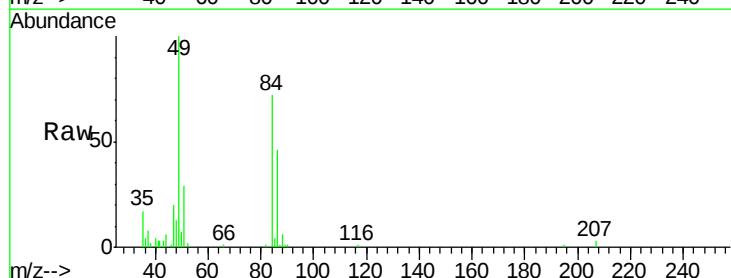
Instrument :
MSVOA_W
ClientSampleId :
CL-02-040219-A

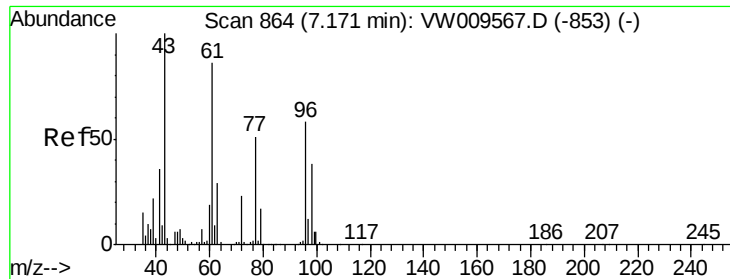
Tgt Ion: 43 Resp: 9068
Ion Ratio Lower Upper
43 100
74 15.0 17.7 26.5#



#20
Methylene Chloride
Concen: 4.184 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW009692.D
Acq: 04 Apr 2019 13:18

Tgt Ion: 84 Resp: 23524
Ion Ratio Lower Upper
84 100
49 137.9 99.1 148.7
51 40.0 28.7 43.1
86 64.7 50.5 75.7





#25

2-Butanone

Concen: 19.371 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

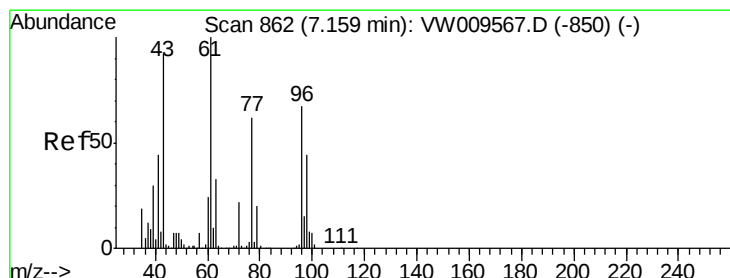
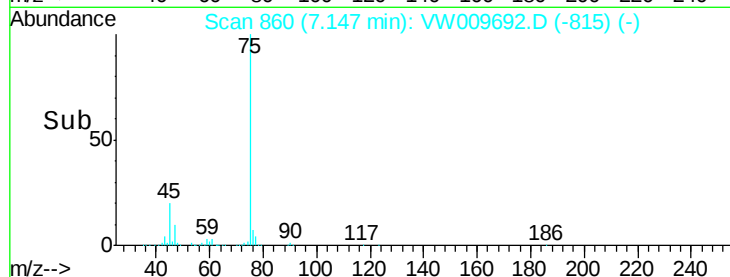
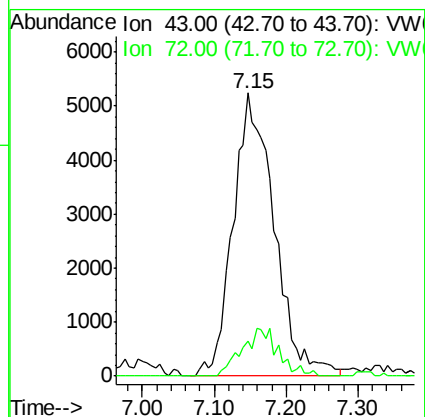
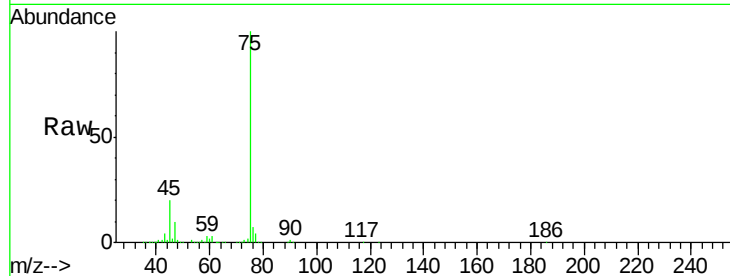
CL-02-040219-A

Tgt Ion: 43 Resp: 20741

Ion Ratio Lower Upper

43 100

72 12.5 20.0 30.0#



#26

2,2-Dichloropropane

Concen: 4.287 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW009692.D

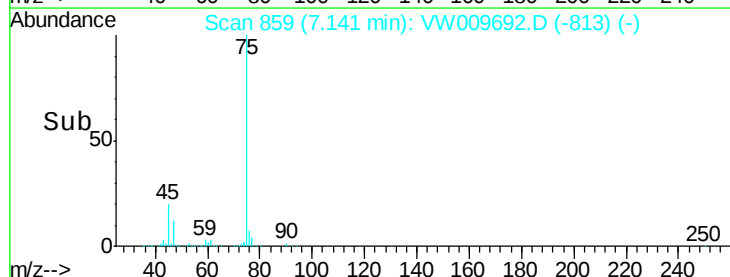
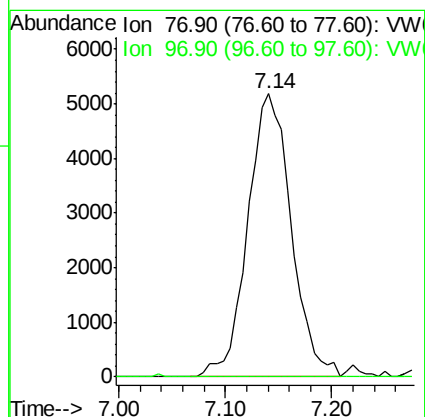
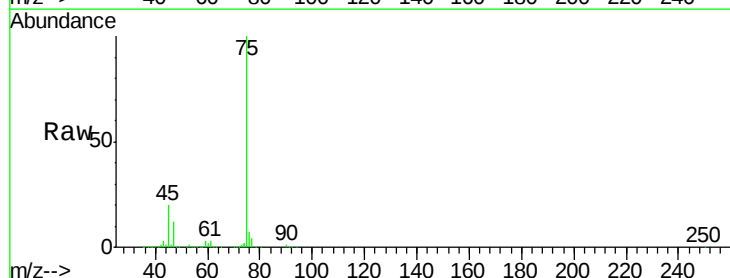
Acq: 04 Apr 2019 13:18

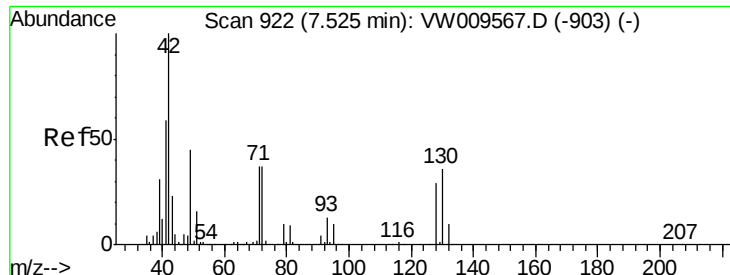
Tgt Ion: 77 Resp: 14822

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.7#

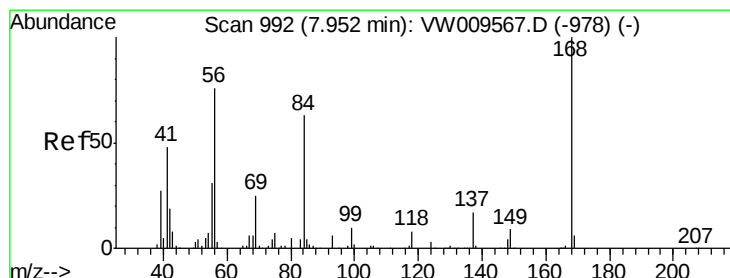
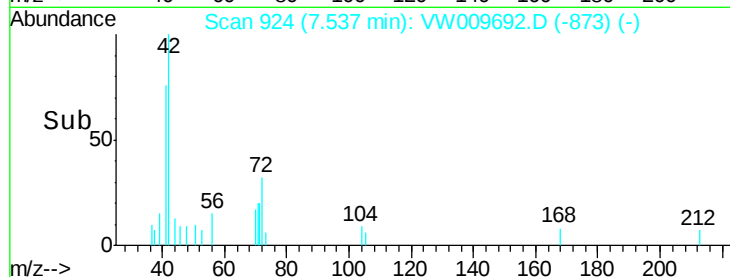
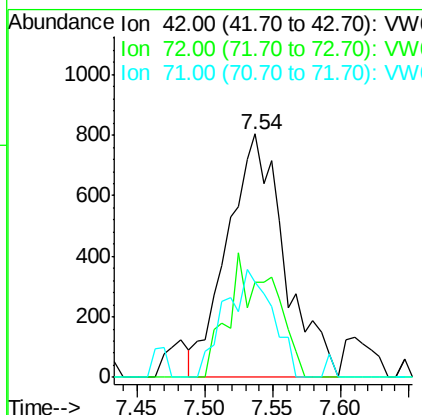
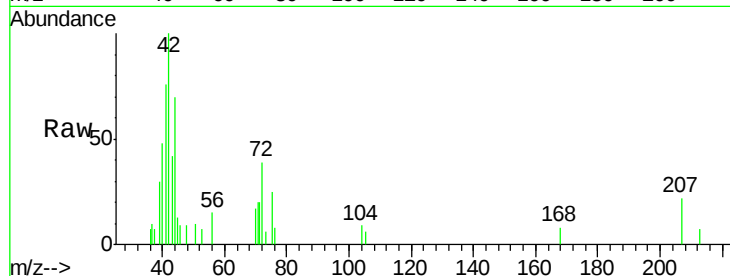




#29
Tetrahydrofuran
Concen: 3.542 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW009692.D
Acq: 04 Apr 2019 13:18

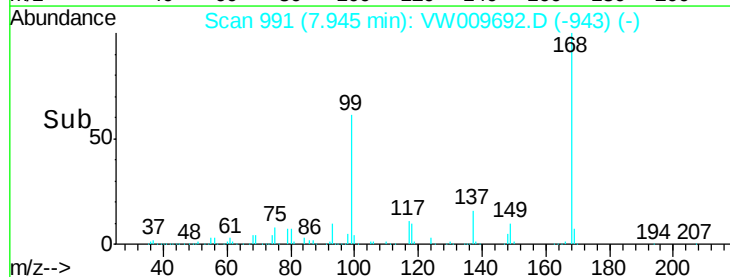
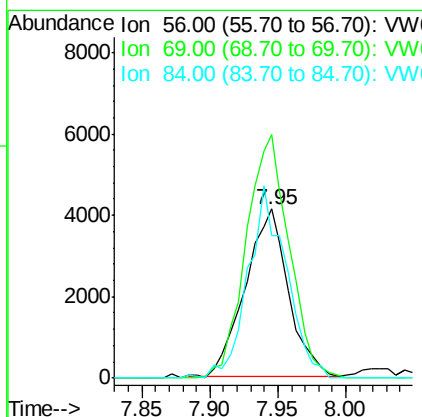
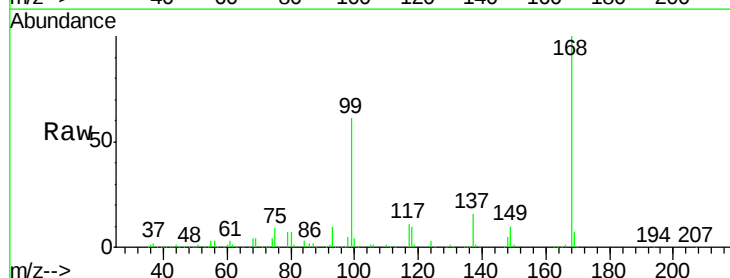
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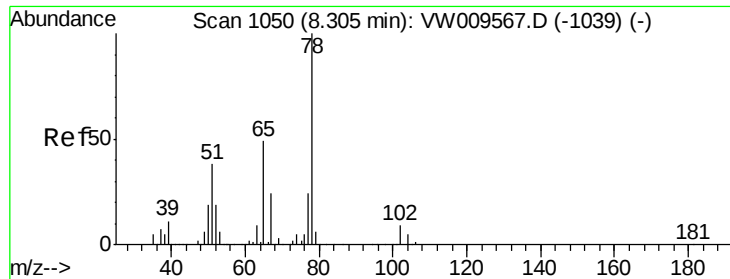
Tgt Ion: 42 Resp: 2355
Ion Ratio Lower Upper
42 100
72 17.7 32.4 48.6#
71 36.7 30.1 45.1



#31
Cyclohexane
Concen: 1.592 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW009692.D
Acq: 04 Apr 2019 13:18

Tgt Ion: 56 Resp: 9027
Ion Ratio Lower Upper
56 100
69 146.1 26.1 39.1#
84 85.4 68.6 103.0

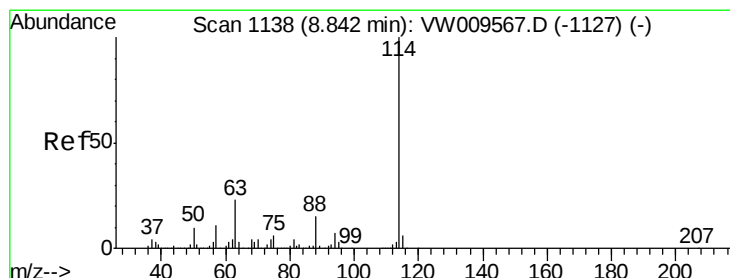
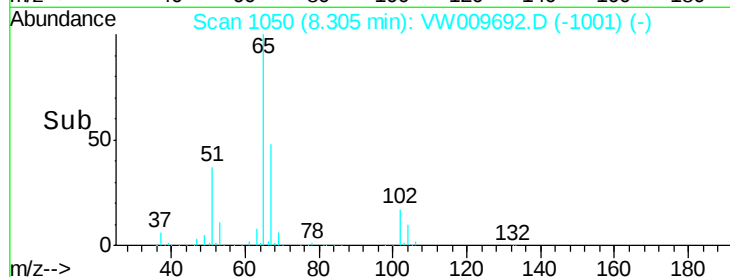
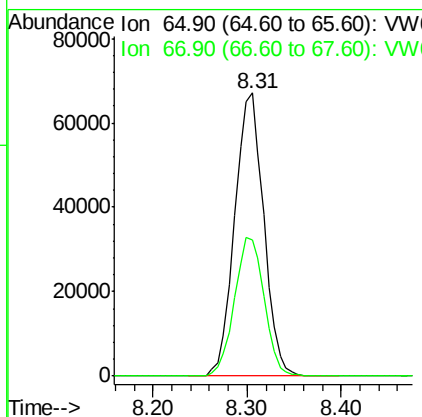
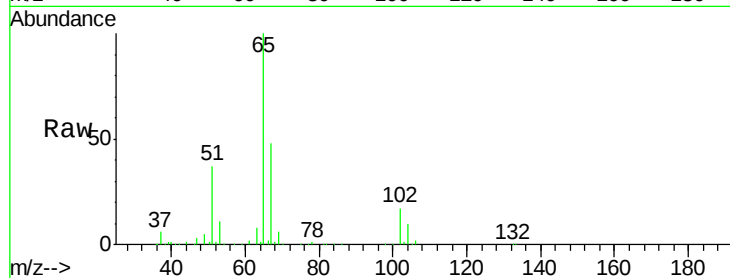




#33
 1,2-Dichloroethane-d4
 Concen: 41.750 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW009692.D
 Acq: 04 Apr 2019 13:18

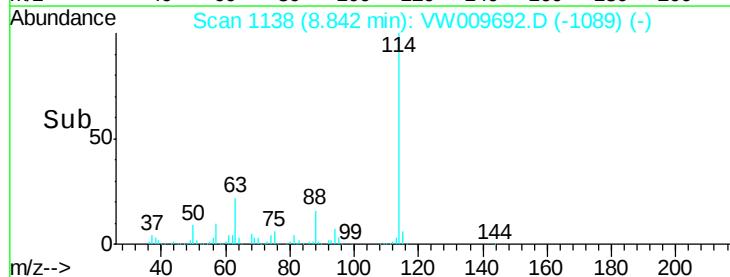
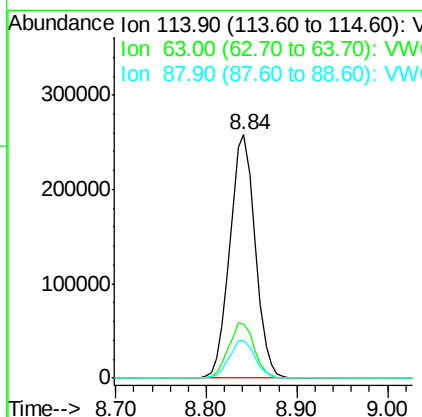
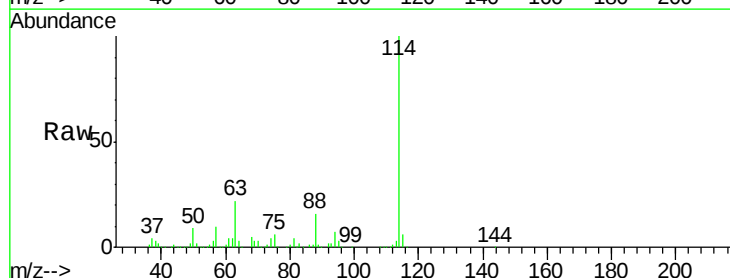
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-040219-A

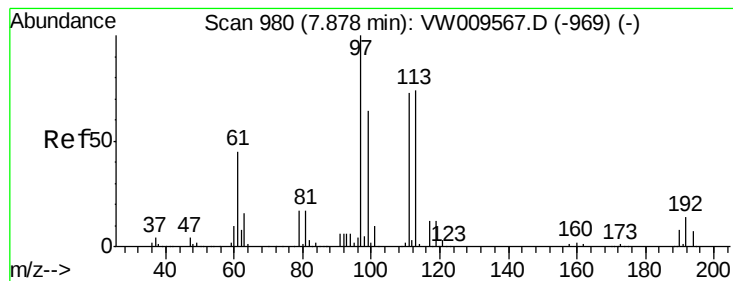
Tgt Ion: 65 Resp: 143884
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW009692.D
 Acq: 04 Apr 2019 13:18

Tgt Ion: 114 Resp: 500193
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 42.2
 88 15.7 0.0 30.8





#35

Dibromofluoromethane

Concen: 37.614 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

CL-02-040219-A

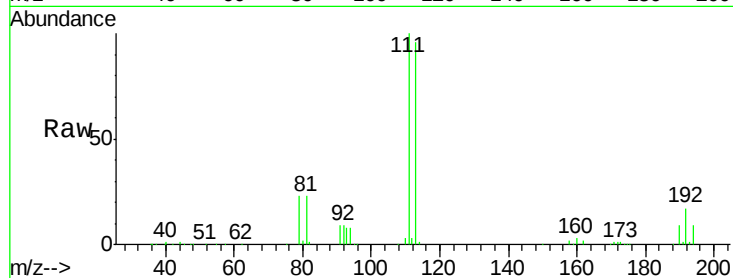
Tgt Ion:113 Resp: 118168

Ion Ratio Lower Upper

113 100

111 102.4 82.6 124.0

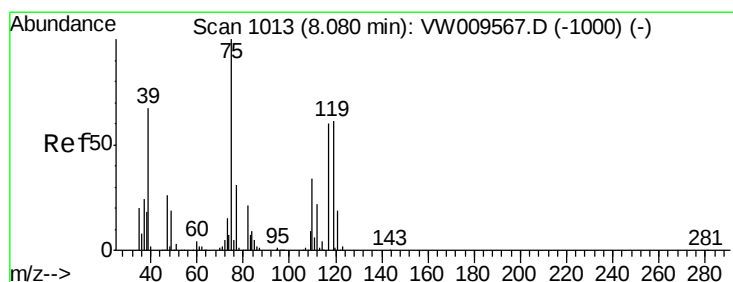
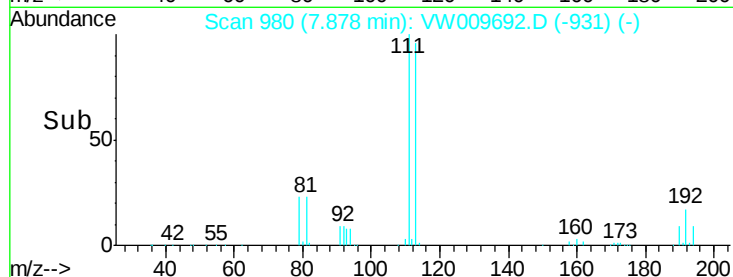
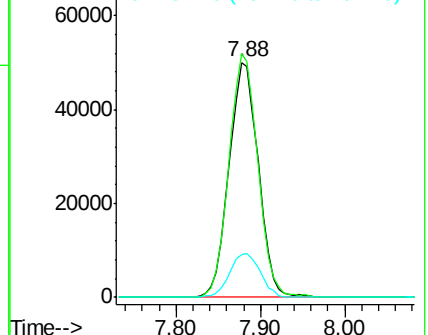
192 19.5 16.4 24.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.215 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

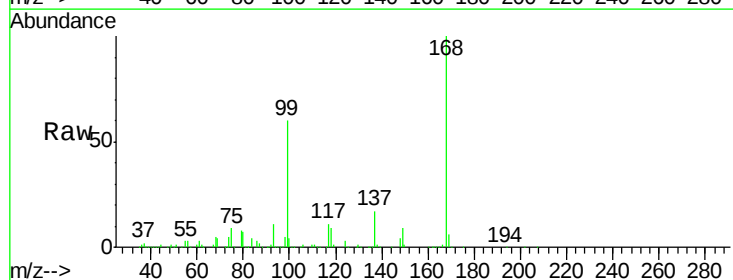
Tgt Ion: 75 Resp: 26979

Ion Ratio Lower Upper

75 100

110 9.6 16.8 50.4#

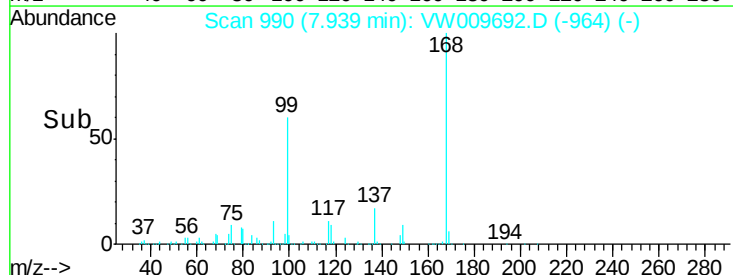
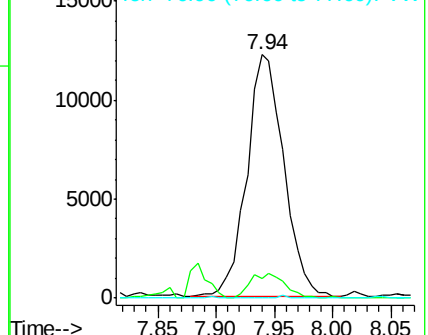
77 0.2 24.6 36.8#

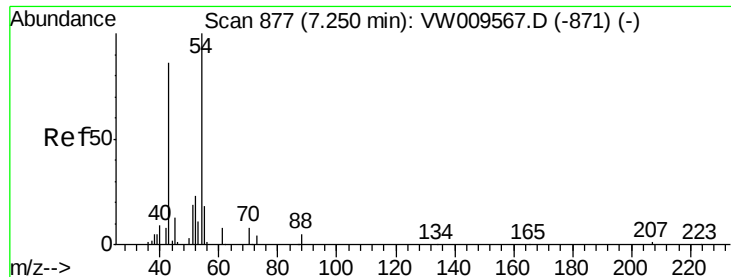


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 8.438 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.10 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

CL-02-040219-A

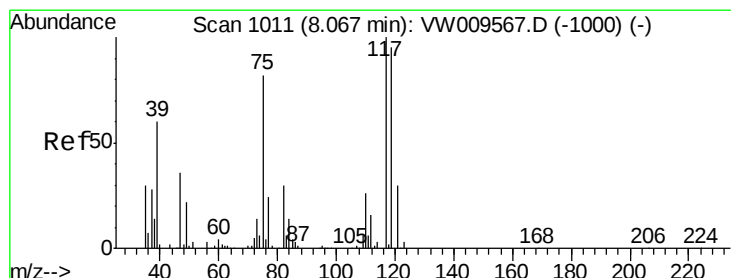
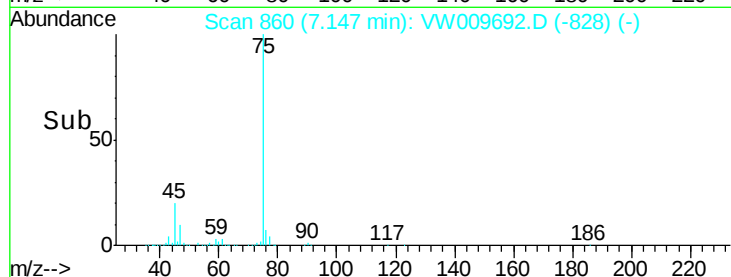
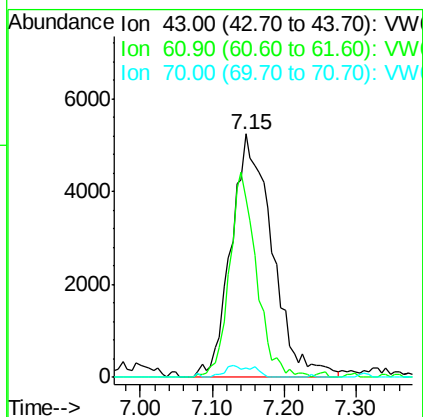
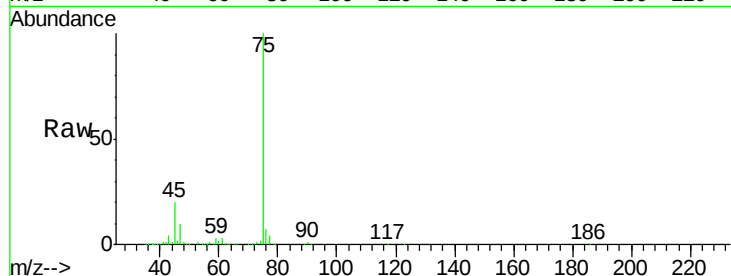
Tgt Ion: 43 Resp: 20741

Ion Ratio Lower Upper

43 100

61 55.6 10.0 15.0#

70 3.4 7.3 10.9#



#38

Carbon Tetrachloride

Concen: 6.250 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

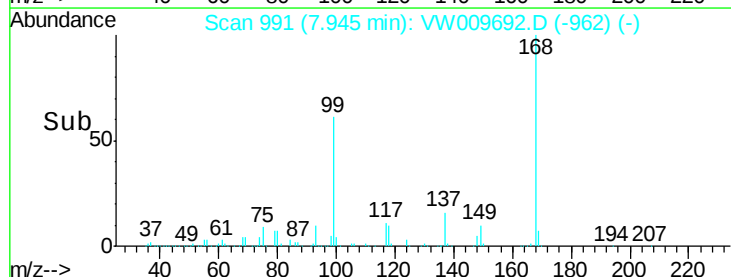
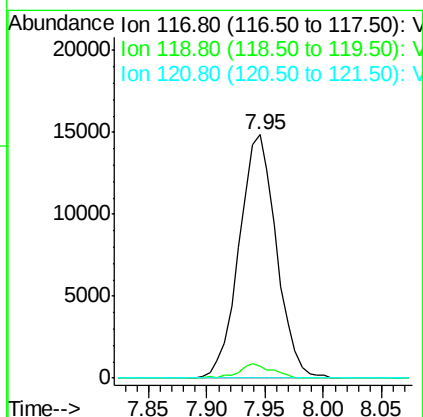
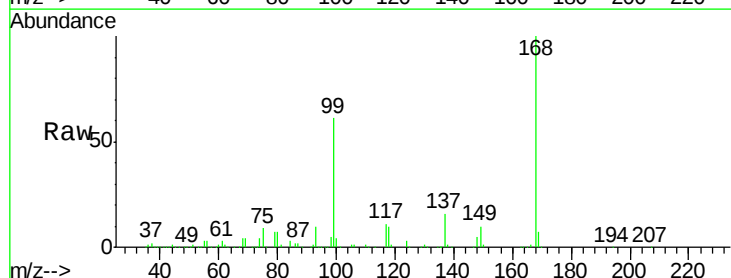
Tgt Ion: 117 Resp: 33135

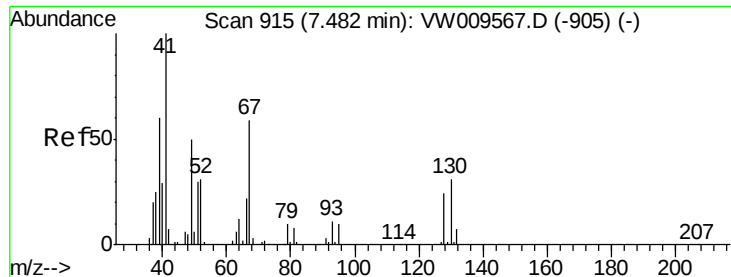
Ion Ratio Lower Upper

117 100

119 5.0 75.4 113.0#

121 0.0 24.9 37.3#





#41

Methacrylonitrile

Concen: 3.986 ug/l

RT: 7.46 min Scan# 911

Delta R.T. -0.02 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

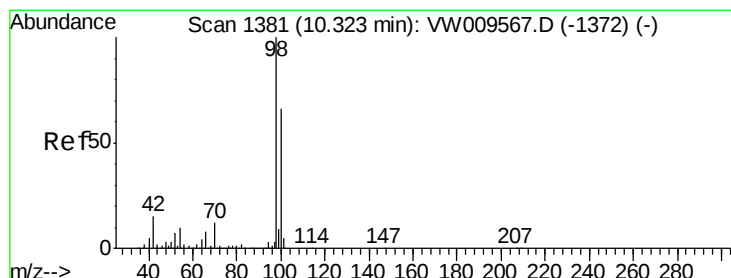
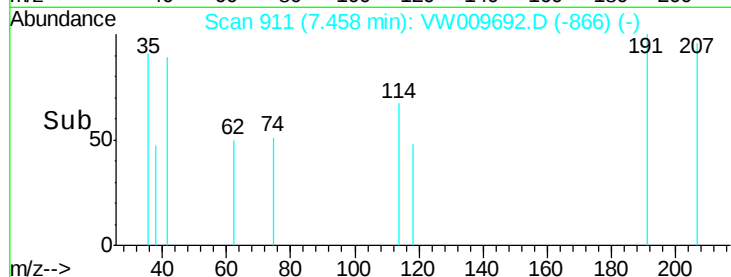
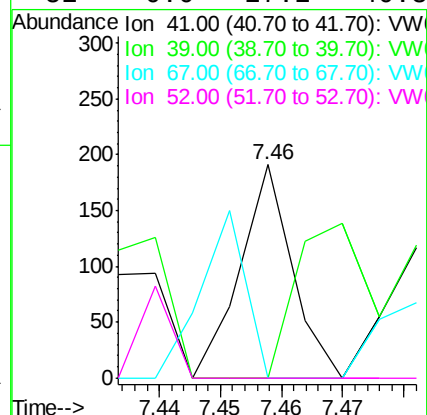
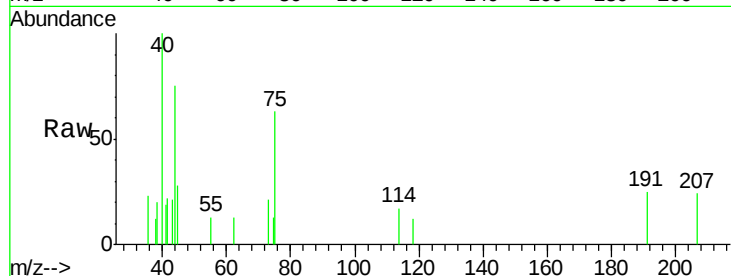
Instrument :

MSVOA_W

ClientSampleId :

CL-02-040219-A

Tgt Ion:	41	Resp:	112
Ion	Ratio	Lower	Upper
41	100		
39	103.6	52.5	78.7#
67	67.9	56.6	84.8
52	0.0	27.2	40.8#



#50

Toluene-d8

Concen: 34.684 ug/l

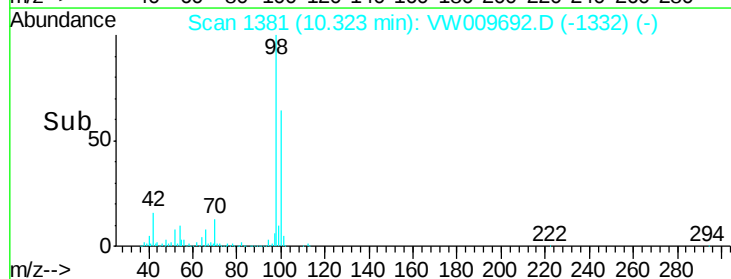
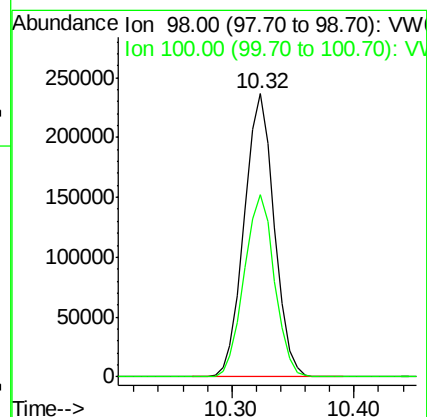
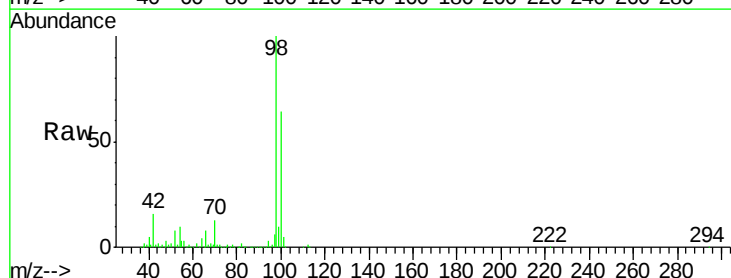
RT: 10.32 min Scan# 1381

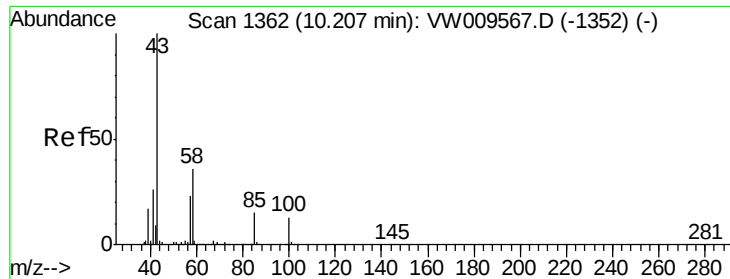
Delta R.T. -0.00 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

Tgt Ion:	98	Resp:	402736
Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.6	79.0

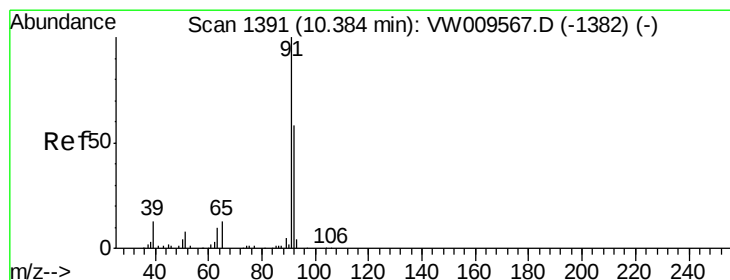
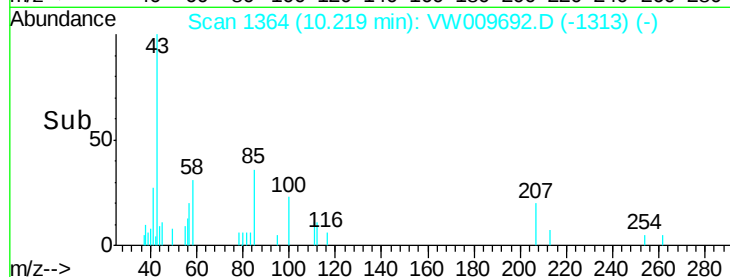
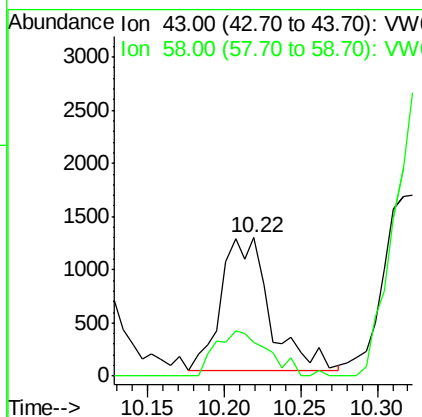
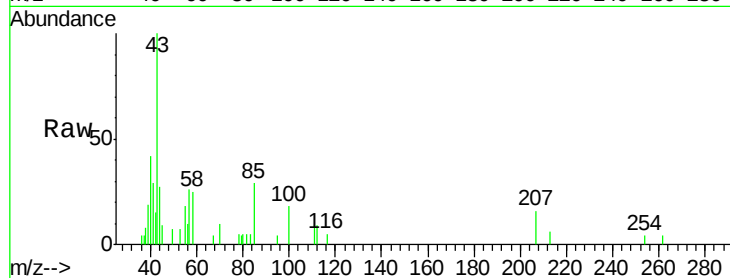




#51
 4-Methyl-2-Pentanone
 Concen: 1.059 ug/l
 RT: 10.22 min Scan# 1364
 Delta R.T. 0.01 min
 Lab File: VW009692.D
 Acq: 04 Apr 2019 13:18

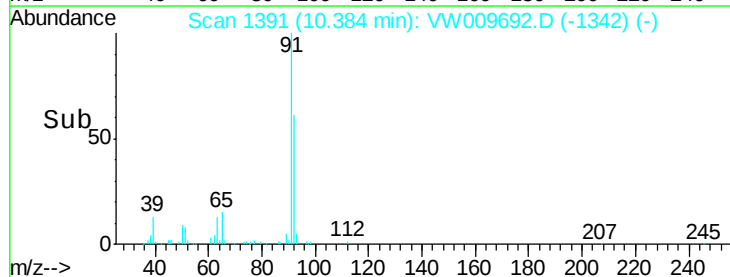
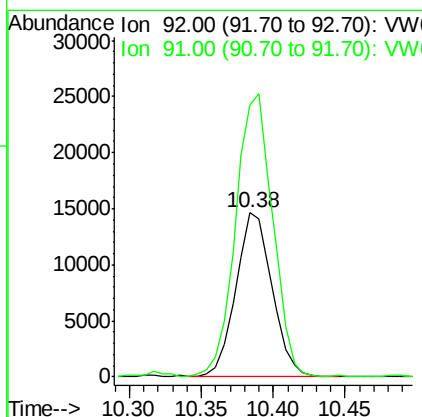
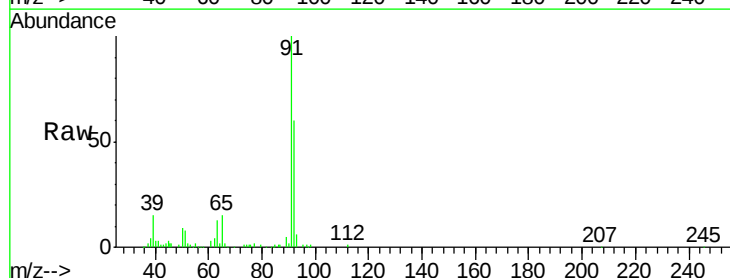
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-040219-A

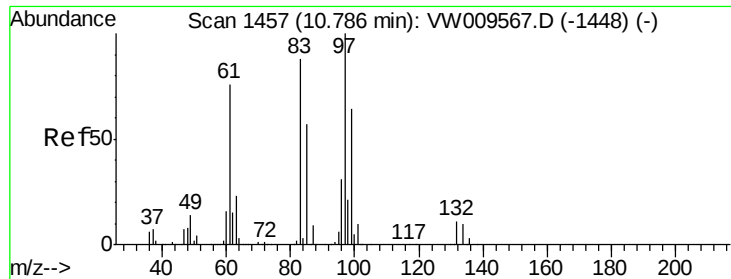
Tgt Ion: 43 Resp: 2730
 Ion Ratio Lower Upper
 43 100
 58 36.6 28.6 42.8



#52
 Toluene
 Concen: 2.918 ug/l
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW009692.D
 Acq: 04 Apr 2019 13:18

Tgt Ion: 92 Resp: 25612
 Ion Ratio Lower Upper
 92 100
 91 176.0 140.1 210.1

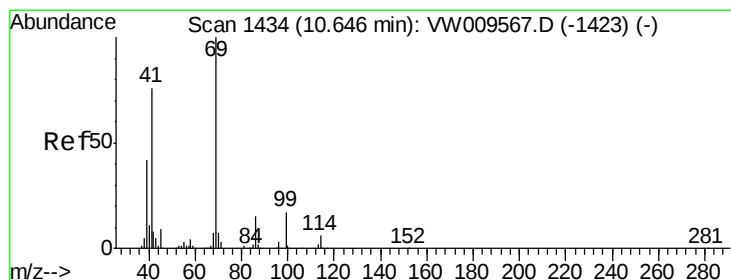
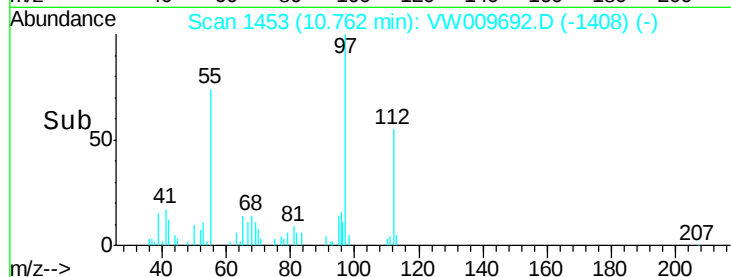
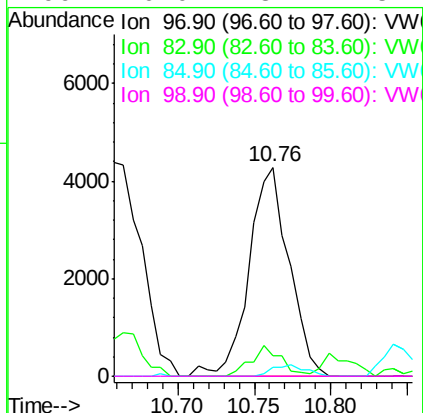
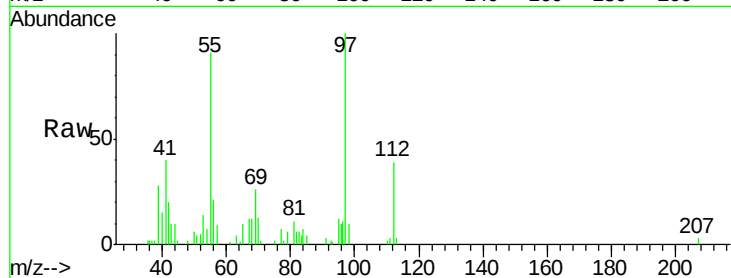




#55
 1,1,2-Trichloroethane
 Concen: 2.960 ug/l
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW009692.D
 Acq: 04 Apr 2019 13:18

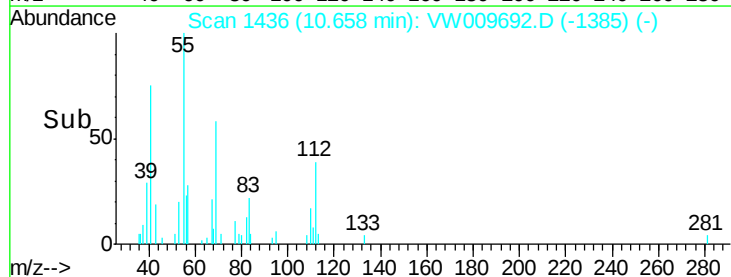
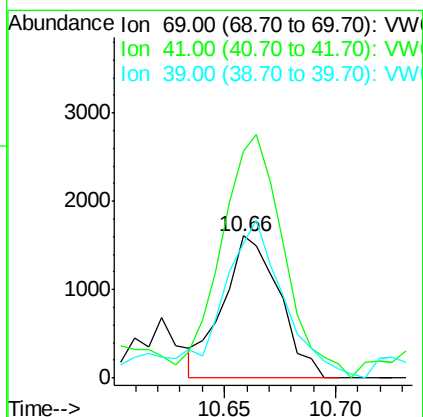
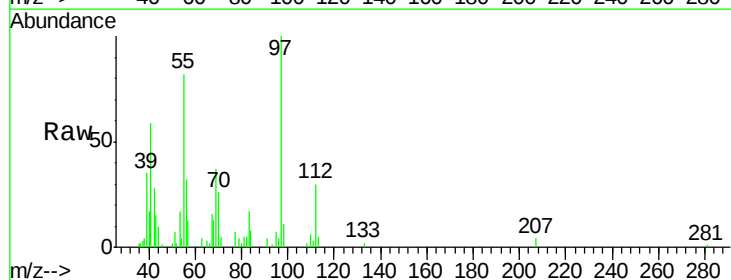
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-040219-A

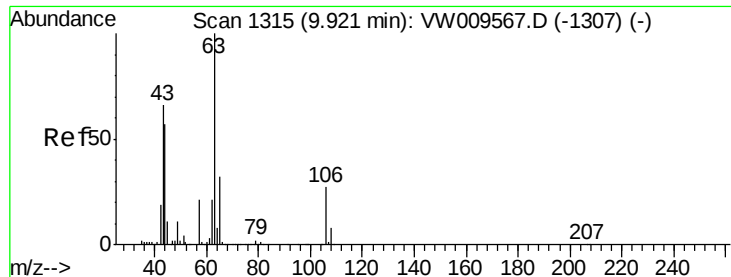
Tgt Ion: 97 Resp: 7775
 Ion Ratio Lower Upper
 97 100
 83 9.8 66.3 99.5#
 85 4.0 41.4 62.2#
 99 0.0 48.7 73.1#



#56
 Ethyl methacrylate
 Concen: 4.516 ug/l
 RT: 10.66 min Scan# 1436
 Delta R.T. 0.01 min
 Lab File: VW009692.D
 Acq: 04 Apr 2019 13:18

Tgt Ion: 69 Resp: 2831
 Ion Ratio Lower Upper
 69 100
 41 189.2 59.3 88.9#
 39 118.0 36.2 54.2#

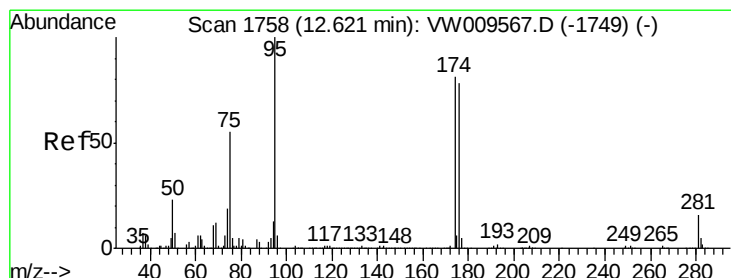
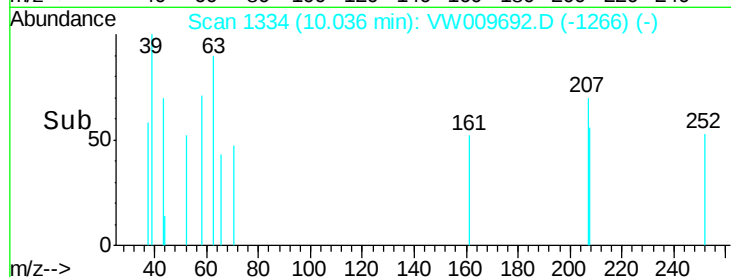
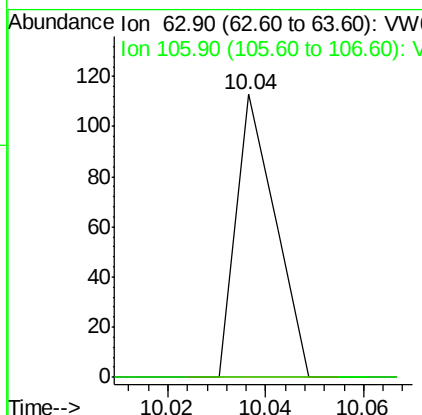
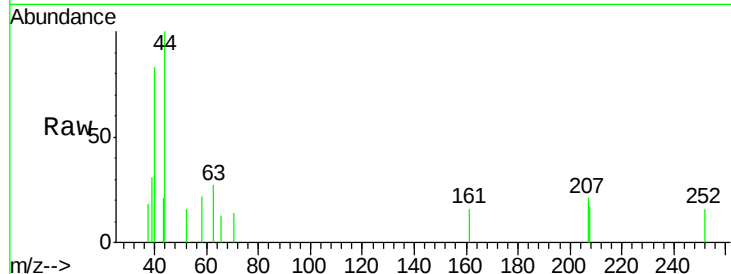




#58
 2-Chloroethyl Vinyl ether
 Concen: 17.050 ug/l
 RT: 10.04 min Scan# 1334
 Delta R.T. 0.12 min
 Lab File: VW009692.D
 Acq: 04 Apr 2019 13:18

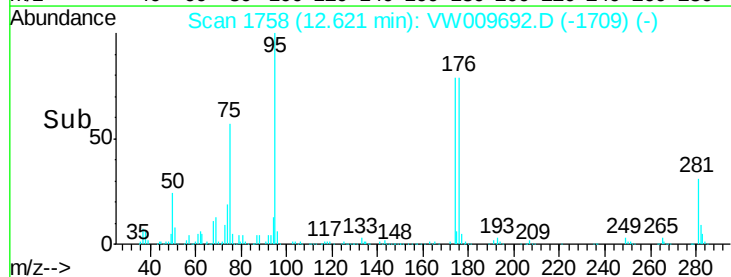
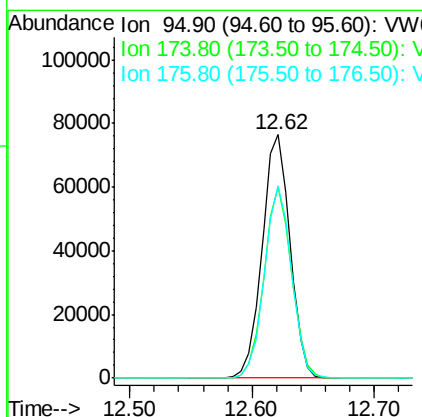
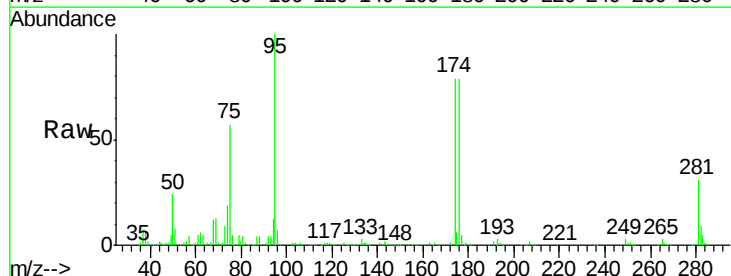
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-040219-A

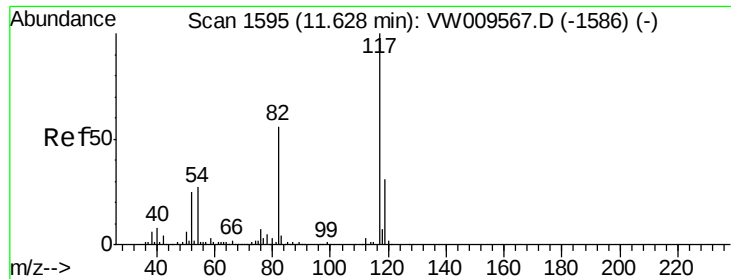
Tgt Ion: 63 Resp: 63
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.9 34.3#



#62
 4-Bromofluorobenzene
 Concen: 28.050 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW009692.D
 Acq: 04 Apr 2019 13:18

Tgt Ion: 95 Resp: 121506
 Ion Ratio Lower Upper
 95 100
 174 77.7 0.0 168.4
 176 76.6 0.0 161.6

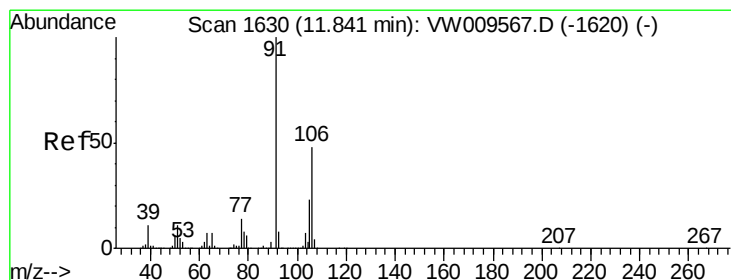
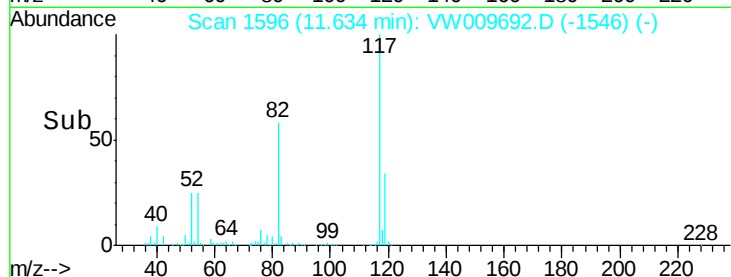
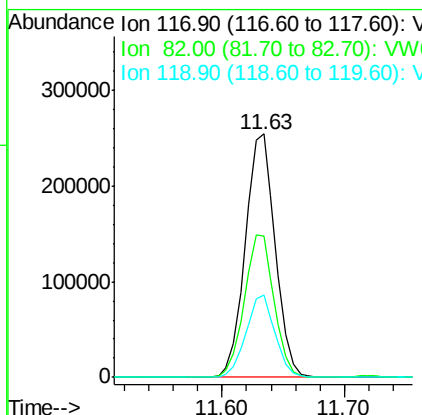
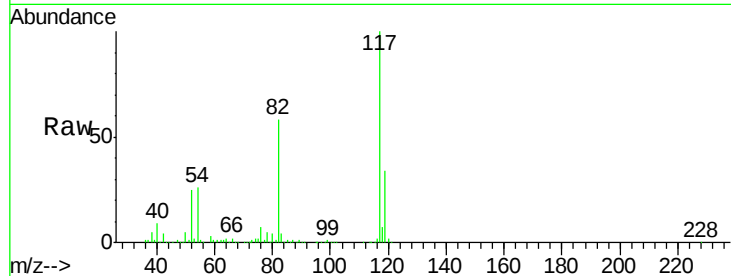




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW009692.D
Acq: 04 Apr 2019 13:18

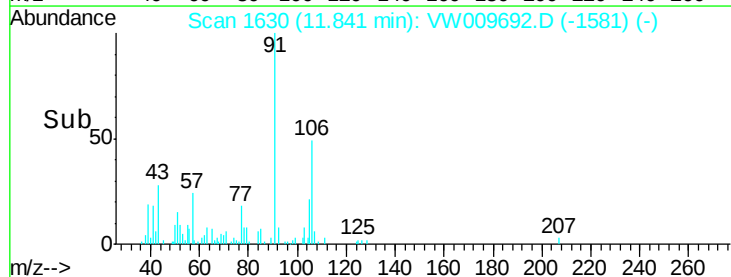
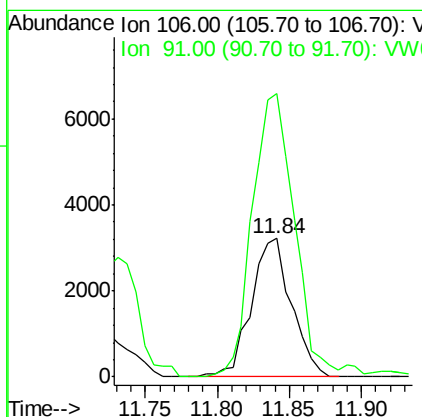
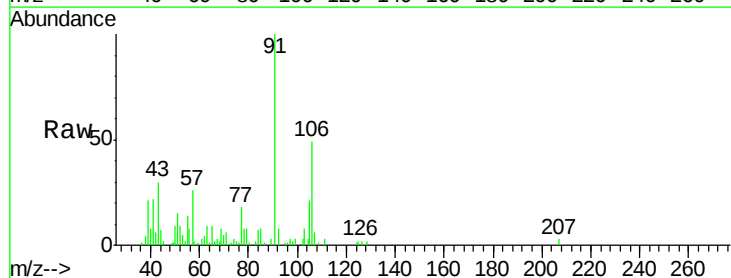
Instrument :
MSVOA_W
ClientSampleId :
CL-02-040219-A

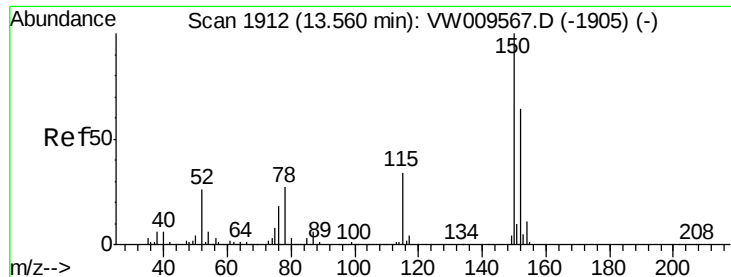
Tgt Ion:117 Resp: 432340
Ion Ratio Lower Upper
117 100
82 57.7 43.6 65.4
119 33.8 26.0 39.0



#68
m/p-Xylenes
Concen: 1.021 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW009692.D
Acq: 04 Apr 2019 13:18

Tgt Ion:106 Resp: 6219
Ion Ratio Lower Upper
106 100
91 217.3 163.1 244.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

CL-02-040219-A

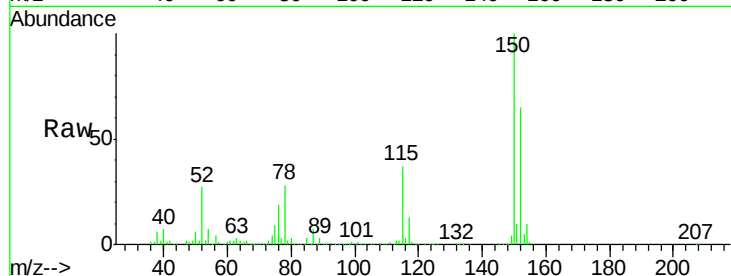
Tgt Ion:152 Resp: 165202

Ion Ratio Lower Upper

152 100

115 59.2 29.6 88.8

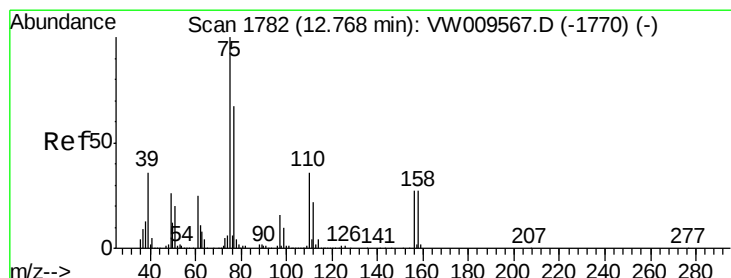
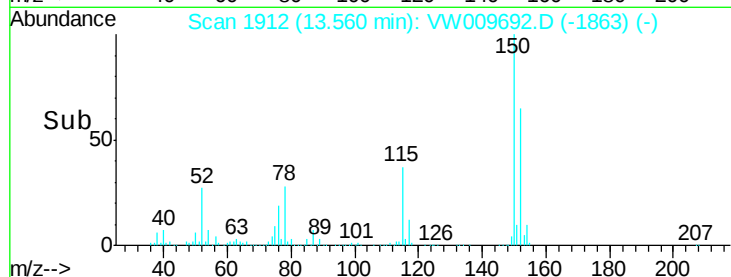
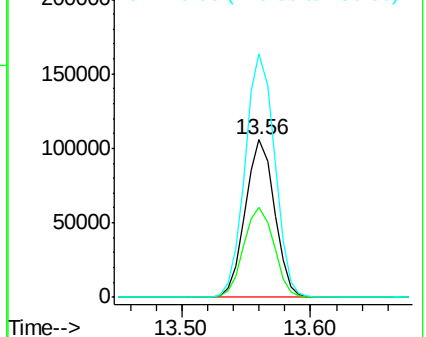
150 156.4 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 46.115 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009692.D

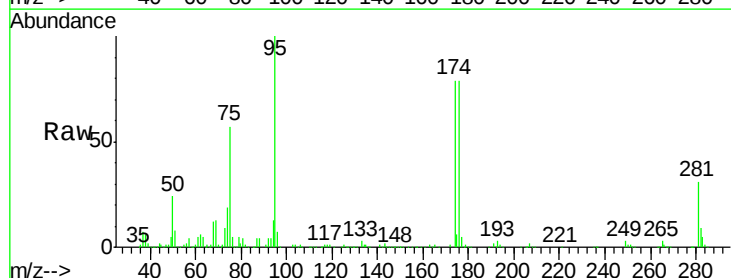
Acq: 04 Apr 2019 13:18

Tgt Ion: 75 Resp: 71641

Ion Ratio Lower Upper

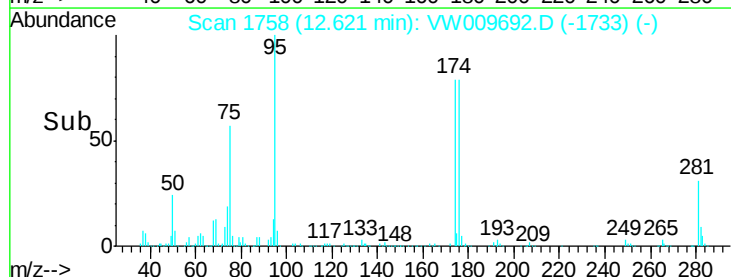
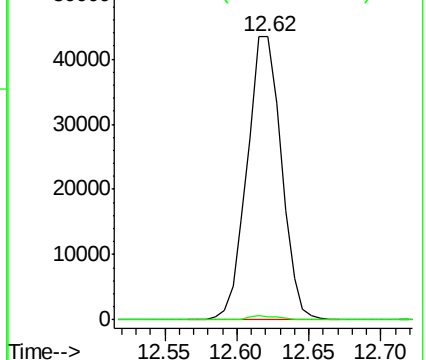
75 100

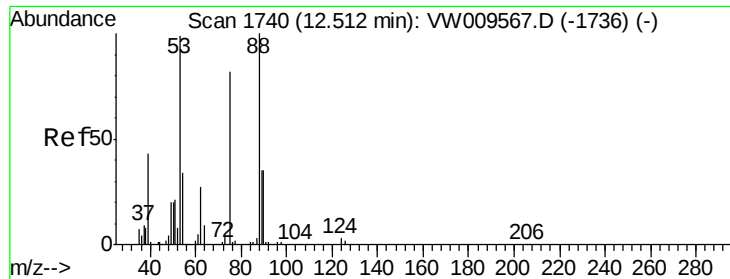
77 1.2 0.0 0.0#



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: 107.239 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

CL-02-040219-A

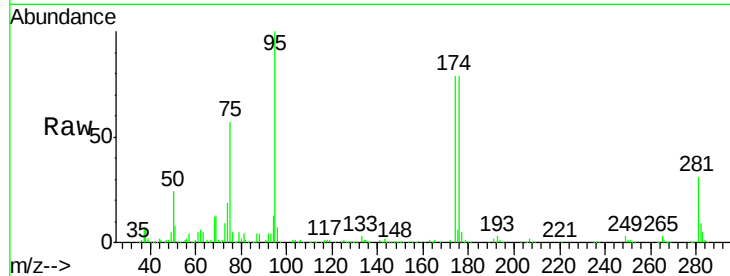
Tgt Ion: 75 Resp: 71641

Ion Ratio Lower Upper

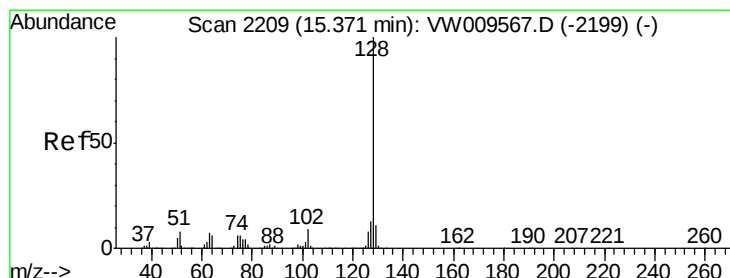
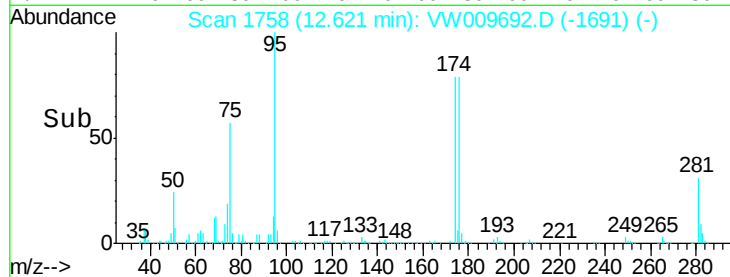
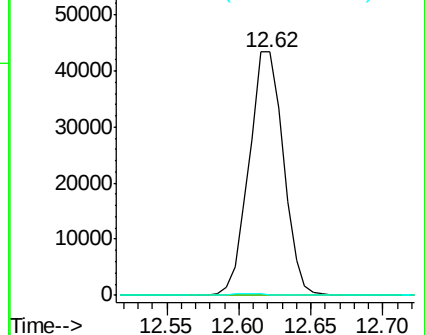
75 100

53 0.2 86.7 130.1#

89 0.6 36.4 54.6#



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



#95

Naphthalene

Concen: 5.360 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009692.D

Acq: 04 Apr 2019 13:18

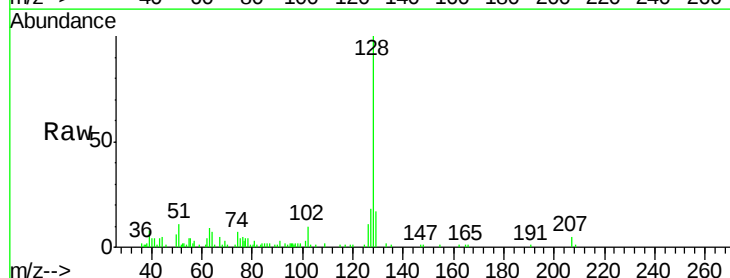
Tgt Ion: 128 Resp: 17850

Ion Ratio Lower Upper

128 100

127 17.0 10.8 16.2#

129 12.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

