

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005434.D
 Acq On : 17 Sep 2018 15:29
 Operator : SY/AP
 Sample : J4773-09
 Misc : 6.22G/5ML/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-091418-E

Quant Time: Sep 18 01:03:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	253833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	394127	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	339681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	127168	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	122234	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	
35) Dibromofluoromethane	7.89	113	99805	45.16	ug/l	0.00
Spiked Amount			Recovery	=	90.32%	
50) Toluene-d8	10.33	98	398243	39.35	ug/l	0.00
Spiked Amount			Recovery	=	78.70%	
62) 4-Bromofluorobenzene	12.63	95	124335	33.51	ug/l	0.00
Spiked Amount			Recovery	=	67.02%	

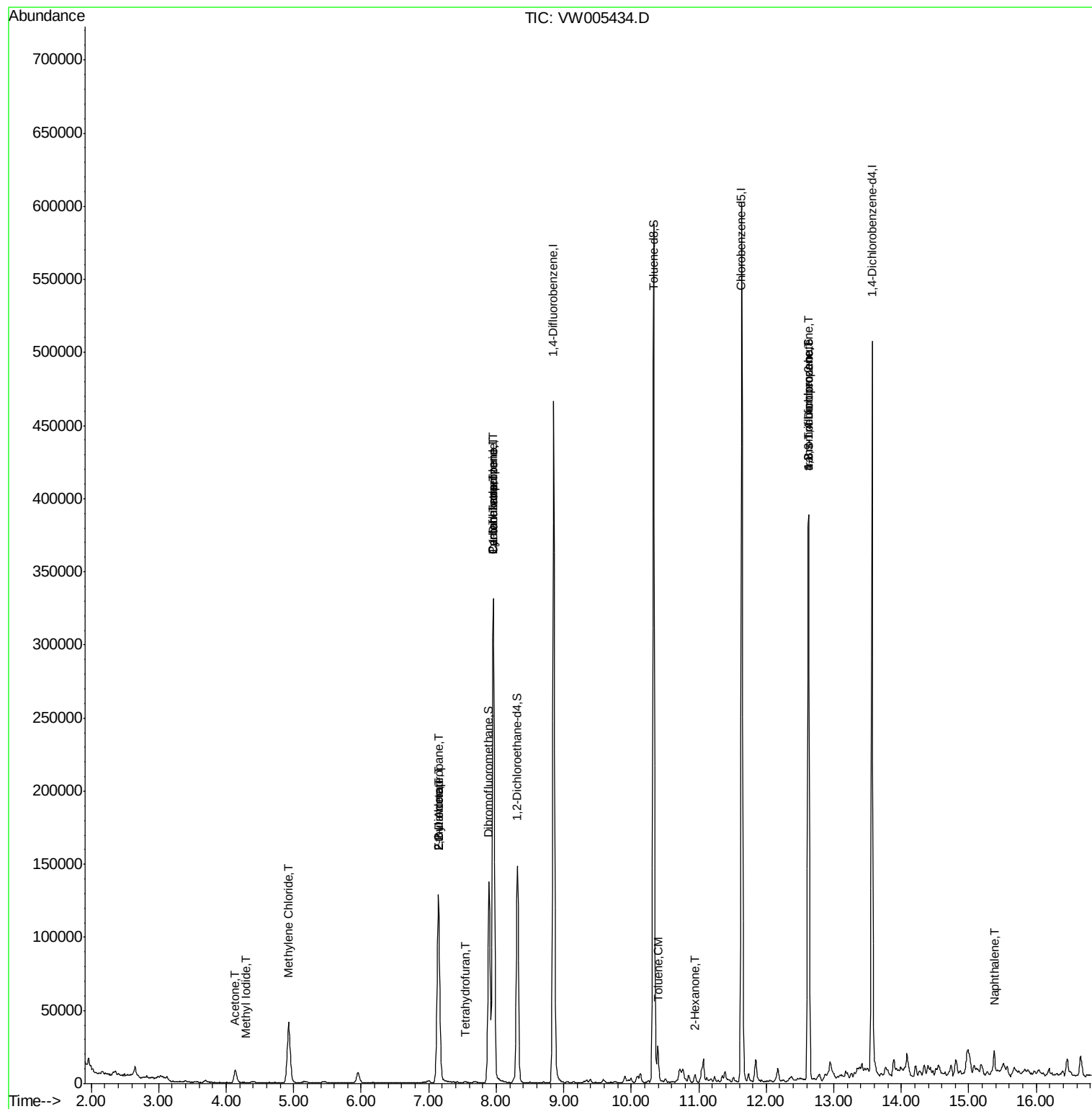
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	165	Below Cal	#	42
5) Bromomethane	2.76	94	233	Below Cal	#	52
10) Methyl Iodide	4.29	142	20	4.058	ug/l #	38
11) Tert butyl alcohol	5.15	59	941	Below Cal	#	71
13) Acrolein	4.15	56	53	Below Cal	#	59
16) Acetone	4.14	43	16236	26.761	ug/l	98
20) Methylene Chloride	4.92	84	29806	6.397	ug/l	97
25) 2-Butanone	7.15	43	6940	10.950	ug/l #	76
26) 2,2-Dichloropropane	7.14	77	8319	2.127	ug/l #	55
29) Tetrahydrofuran	7.54	42	442	1.095	ug/l #	46
31) Cyclohexane	7.95	56	5176	1.231	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	19513	5.231	ug/l #	51
37) Ethyl Acetate	7.15	43	6940	4.575	ug/l #	1
38) Carbon Tetrachloride	7.96	117	24671	6.347	ug/l #	16
52) Toluene	10.40	92	8823	1.206	ug/l	97
59) 2-Hexanone	10.94	43	2286	2.202	ug/l #	28
76) 1,2,3-Trichloropropane	12.63	75	64764	61.920	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	64764	160.625	ug/l #	8
95) Naphthalene	15.38	128	12996	3.127	ug/l #	97

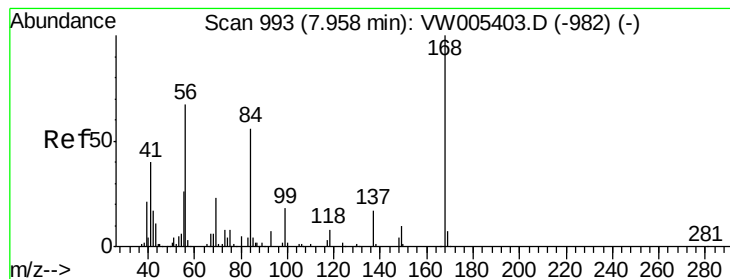
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

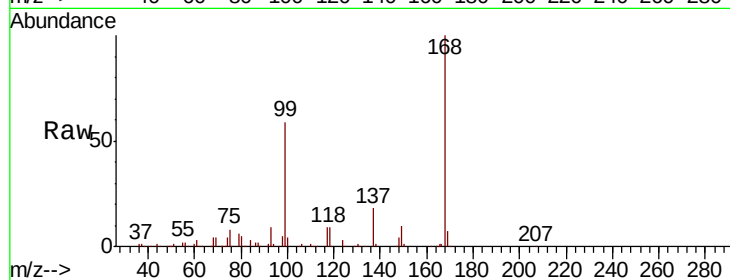
CL-01-091418-E

Tgt Ion:168 Resp: 253833

Ion Ratio Lower Upper

168 100

99 59.3 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

120000

100000

80000

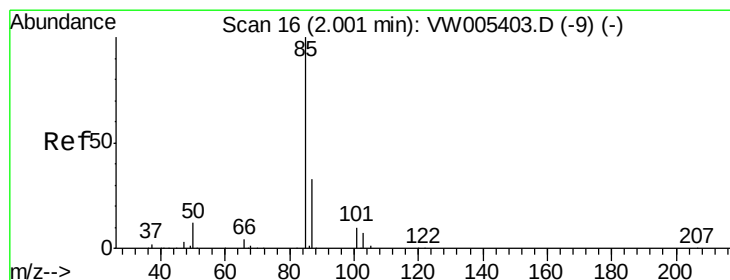
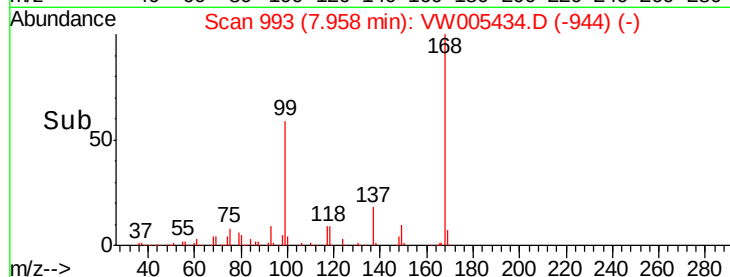
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005434.D

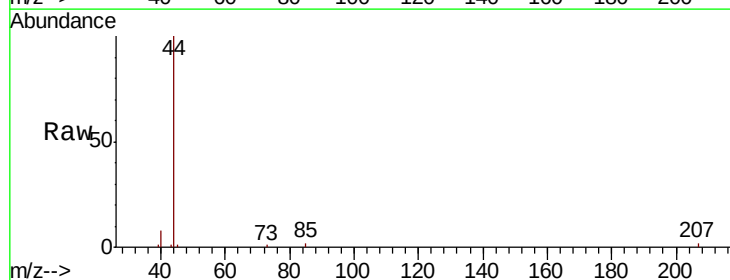
Acq: 17 Sep 2018 15:29

Tgt Ion: 85 Resp: 165

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

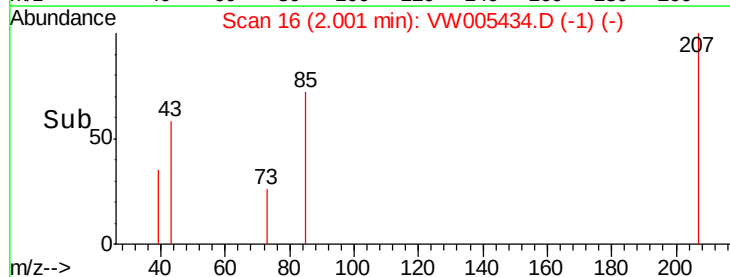
150

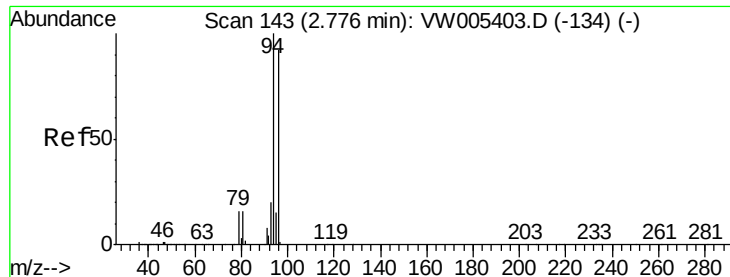
100

50

0

Time--> 1.98 2.00 2.02 2.04





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

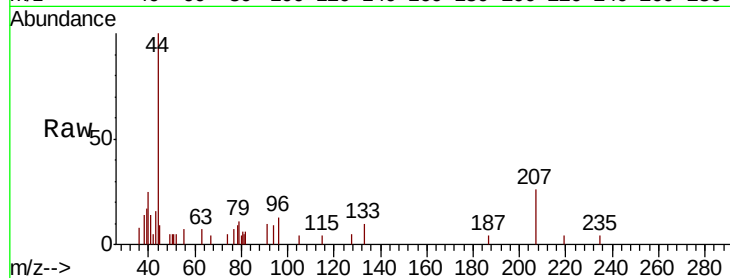
CL-01-091418-E

Tgt Ion: 94 Resp: 233

Ion Ratio Lower Upper

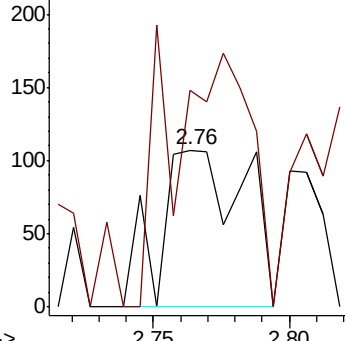
94 100

96 138.3 73.7 110.5#

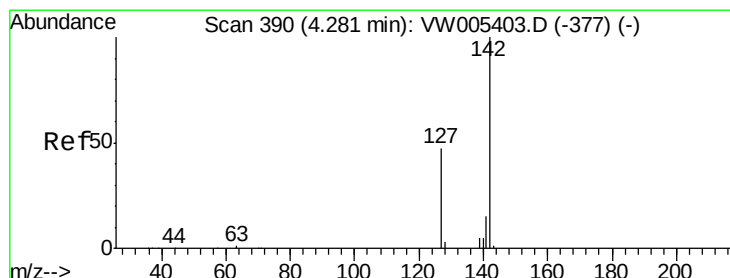
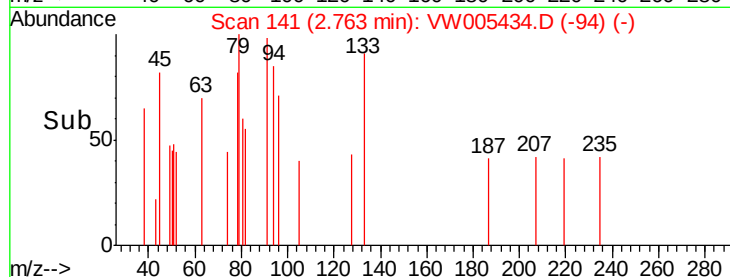


Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



Time-->



#10

Methyl Iodide

Concen: 4.058 ug/l

RT: 4.29 min Scan# 391

Delta R.T. 0.01 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

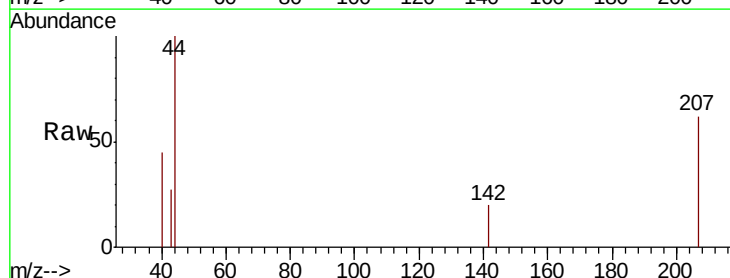
Tgt Ion: 142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 37.5 56.3#

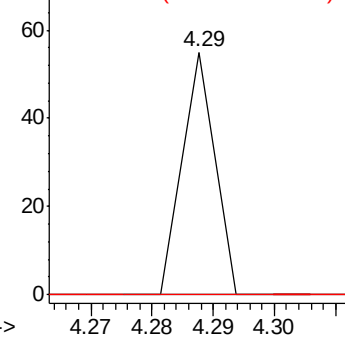
141 0.0 12.4 18.6#



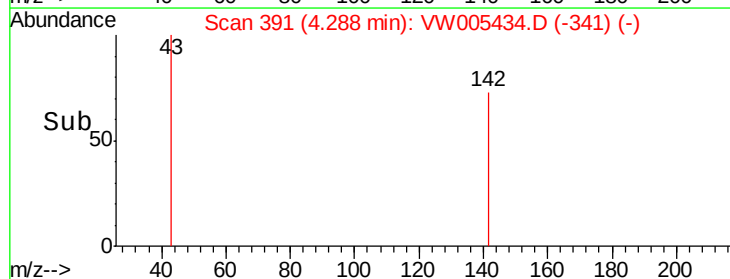
Abundance Ion 141.80 (141.50 to 142.50): V

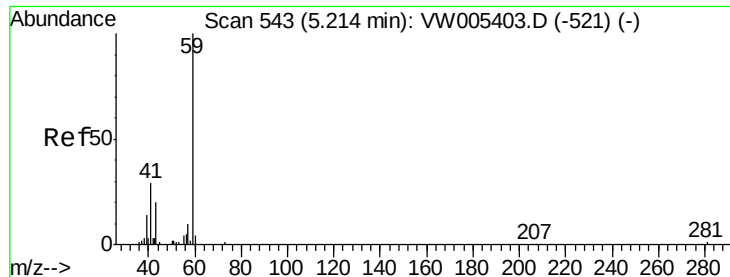
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

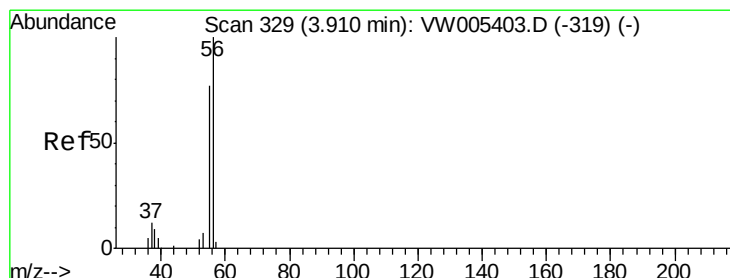
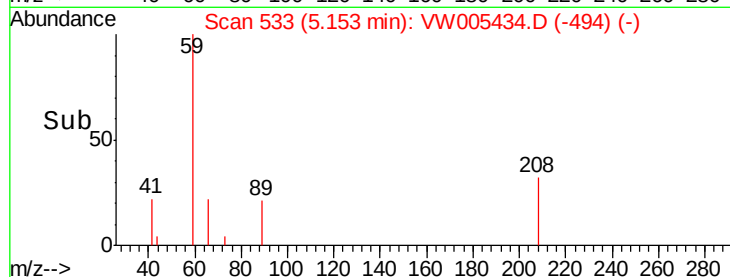
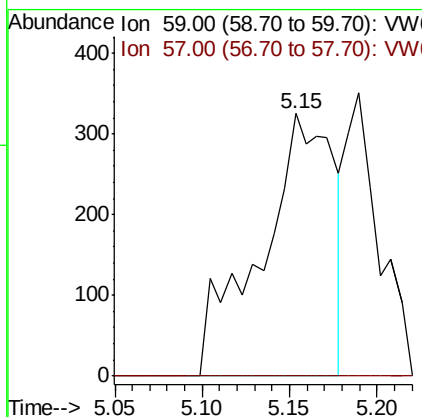
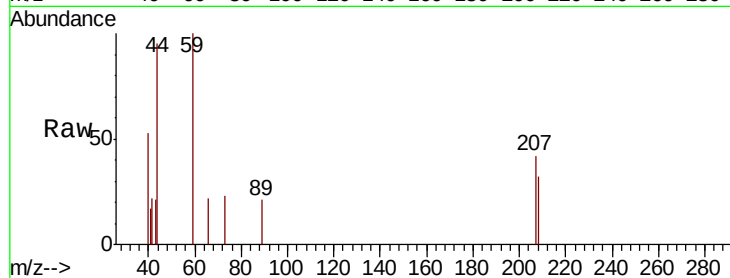




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.15 min Scan# 533
Delta R.T. -0.06 min
Lab File: VW005434.D
Acq: 17 Sep 2018 15:29

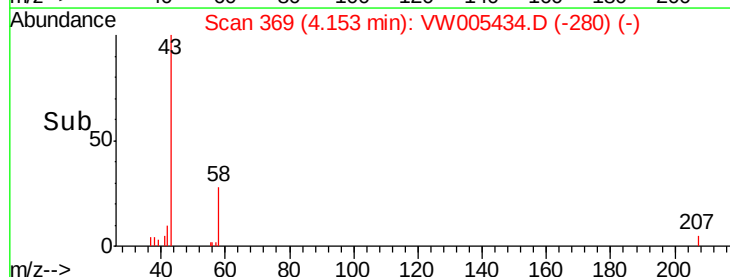
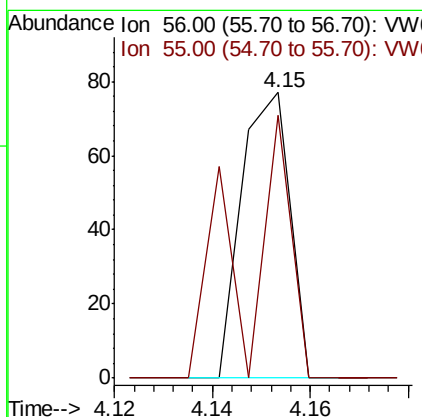
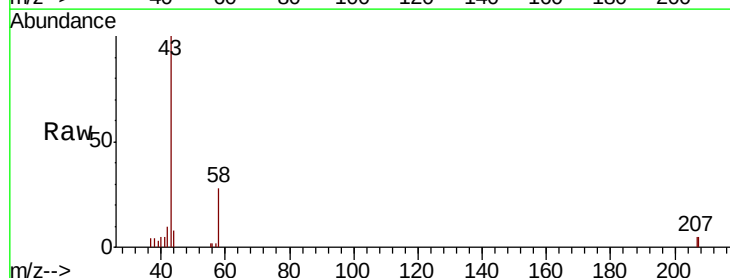
Instrument :
MSVOA_W
ClientSampleId :
CL-01-091418-E

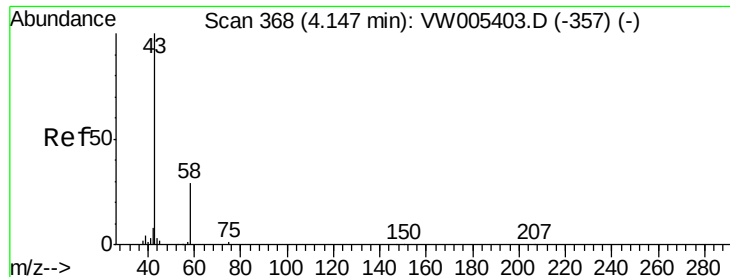
Tgt Ion: 59 Resp: 941
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#13
Acrolein
Concen: Below Cal
RT: 4.15 min Scan# 369
Delta R.T. 0.24 min
Lab File: VW005434.D
Acq: 17 Sep 2018 15:29

Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 39.6 59.8 89.8#





#16

Acetone

Concen: 26.761 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

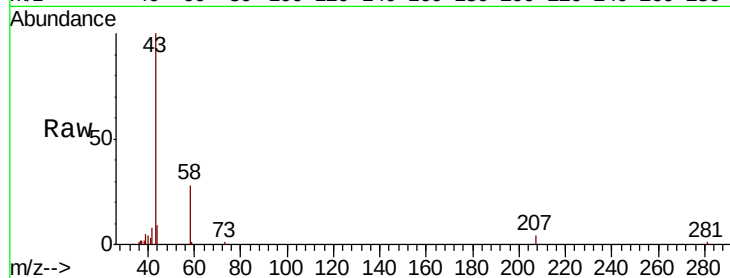
CL-01-091418-E

Tgt Ion: 43 Resp: 16236

Ion Ratio Lower Upper

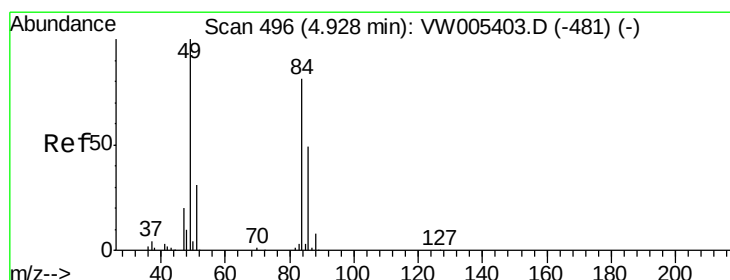
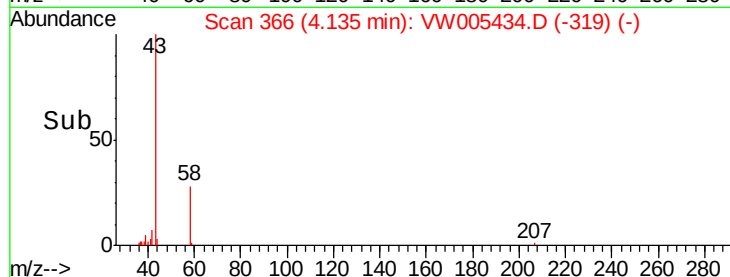
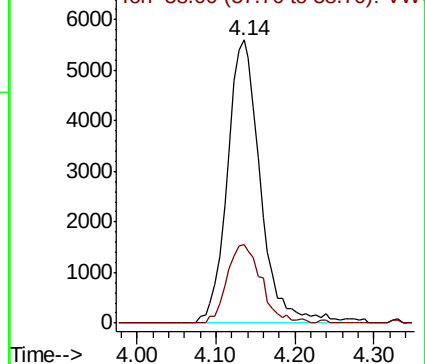
43 100

58 27.6 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 6.397 ug/l

RT: 4.92 min Scan# 495

Delta R.T. -0.01 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Tgt Ion: 84 Resp: 29806

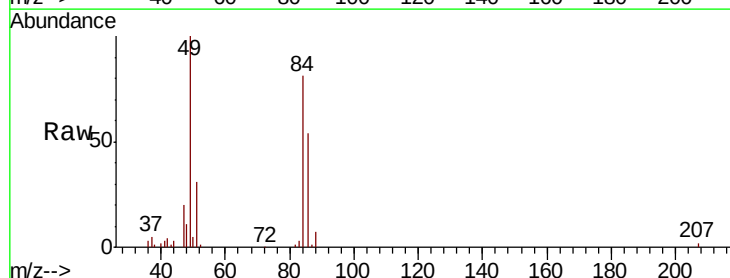
Ion Ratio Lower Upper

84 100

49 122.9 99.3 148.9

51 37.9 31.1 46.7

86 66.1 49.1 73.7

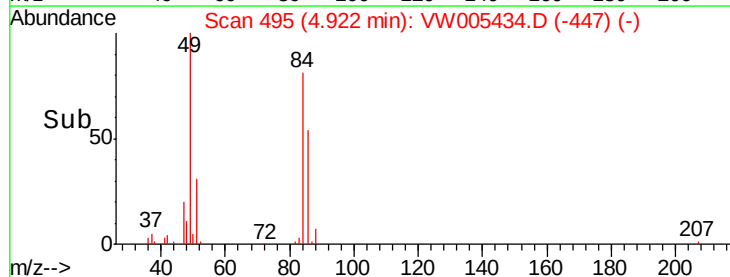
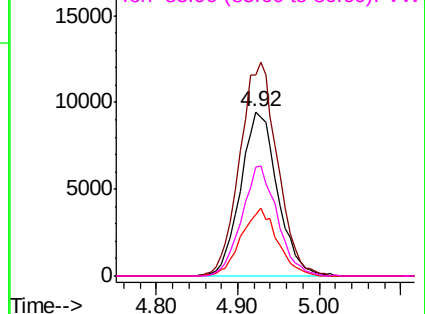


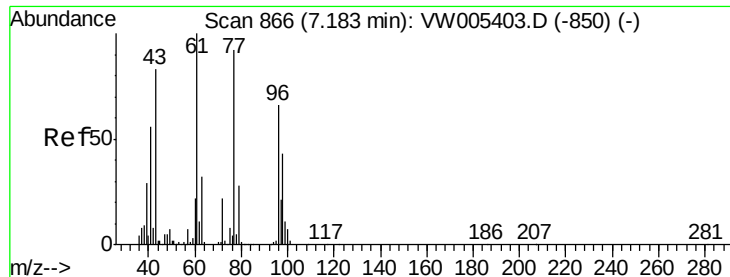
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 10.950 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.04 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

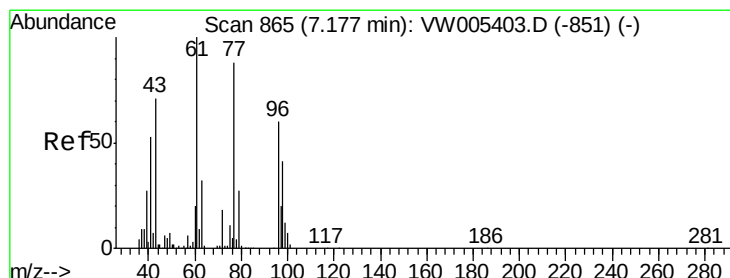
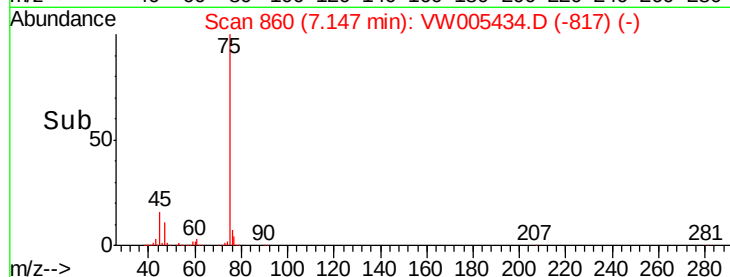
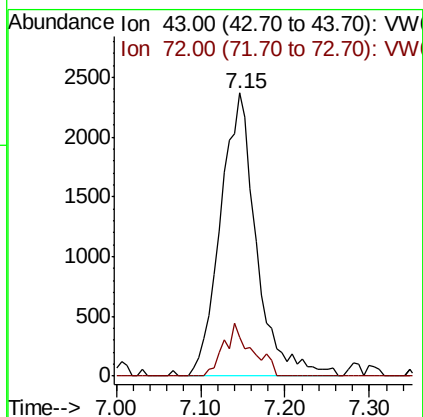
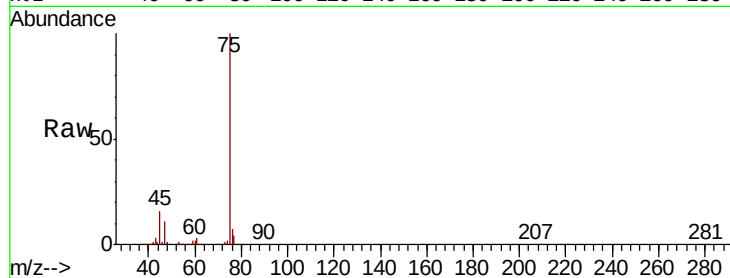
CL-01-091418-E

Tgt Ion: 43 Resp: 6940

Ion Ratio Lower Upper

43 100

72 13.9 21.1 31.7#



#26

2,2-Dichloropropane

Concen: 2.127 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.04 min

Lab File: VW005434.D

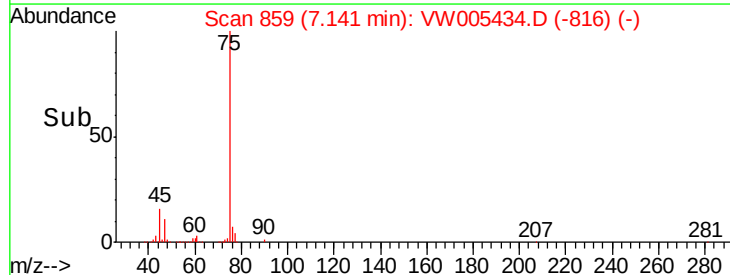
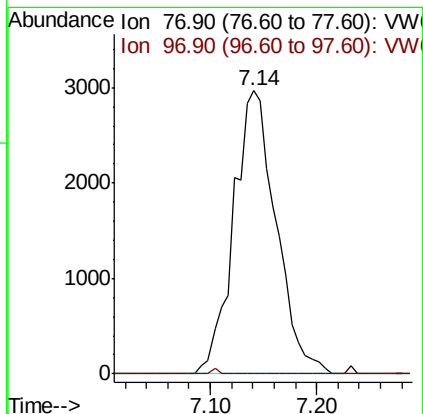
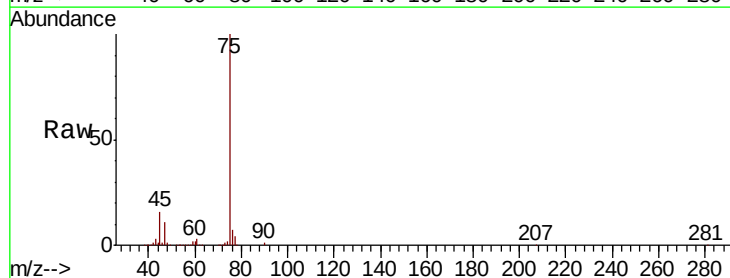
Acq: 17 Sep 2018 15:29

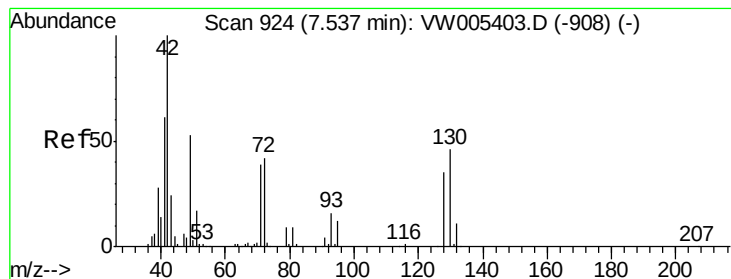
Tgt Ion: 77 Resp: 8319

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#





#29

Tetrahydrofuran

Concen: 1.095 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.00 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

CL-01-091418-E

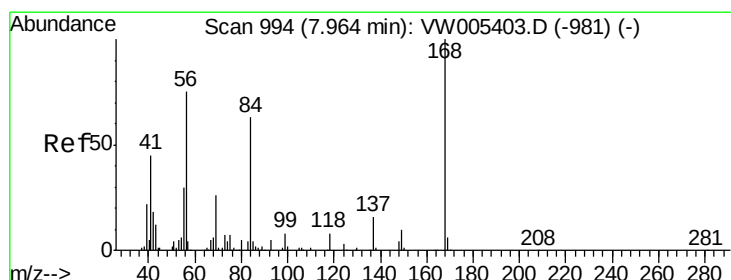
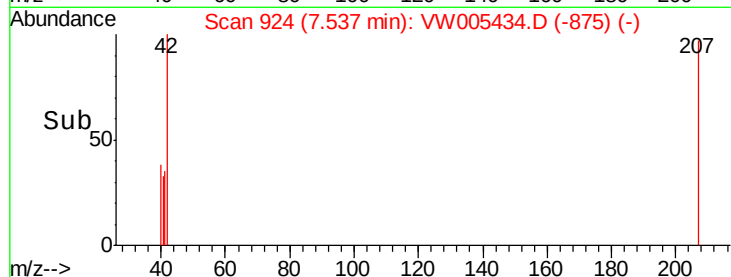
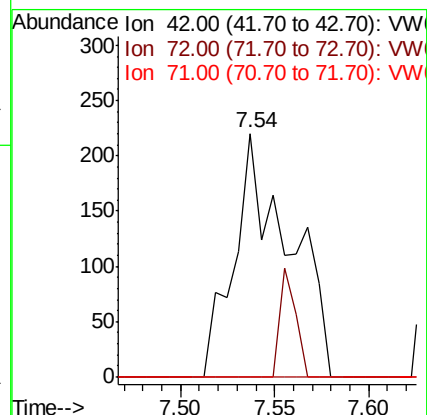
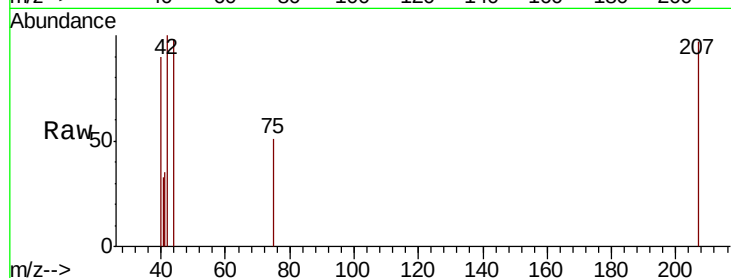
Tgt Ion: 42 Resp: 442

Ion Ratio Lower Upper

42 100

72 12.9 33.2 49.8#

71 0.0 31.0 46.6#



#31

Cyclohexane

Concen: 1.231 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

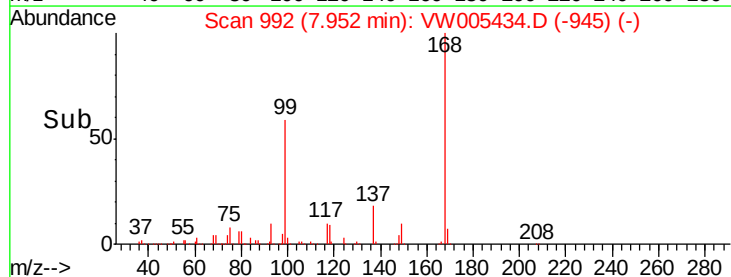
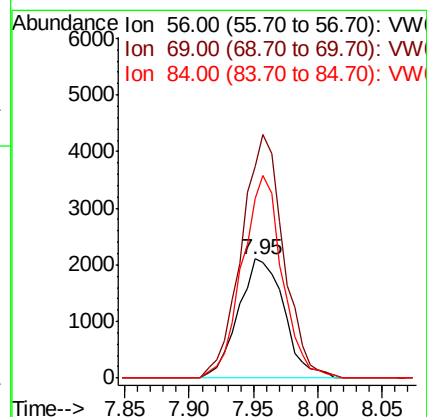
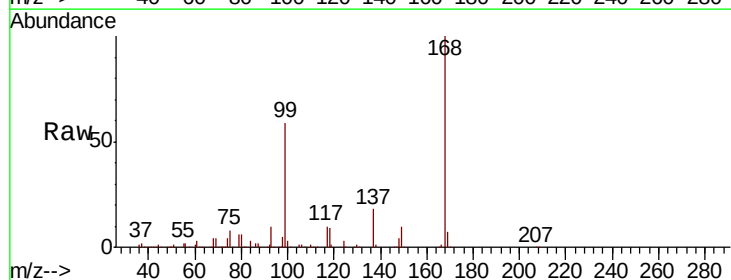
Tgt Ion: 56 Resp: 5176

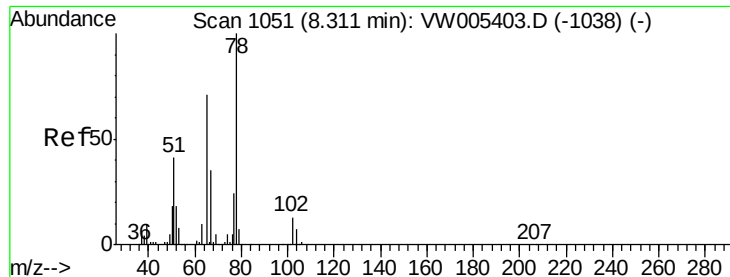
Ion Ratio Lower Upper

56 100

69 178.0 27.2 40.8#

84 151.0 66.7 100.1#

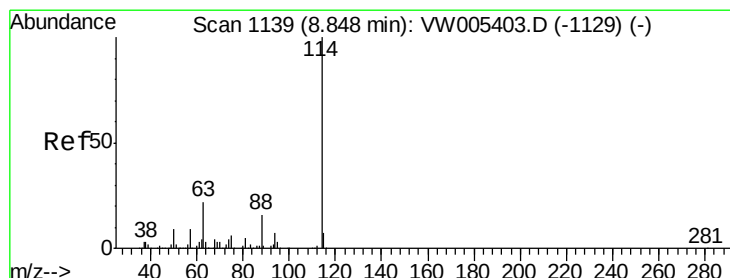
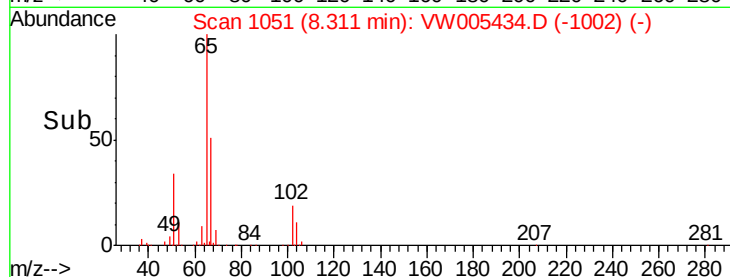
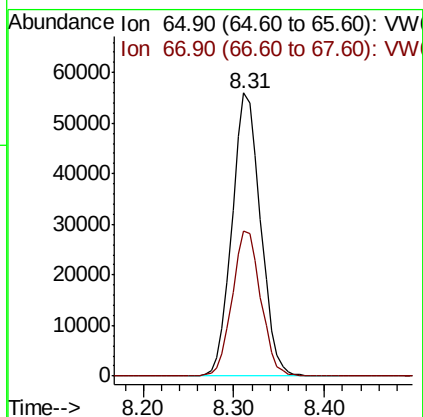
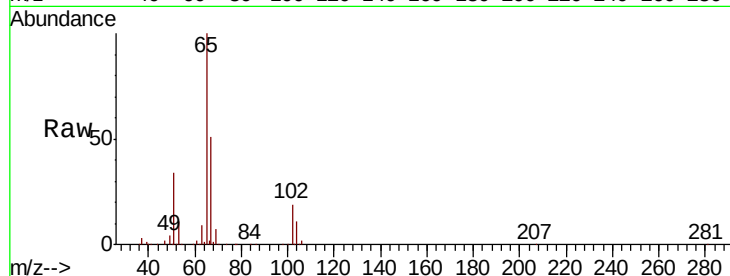




#33
 1,2-Dichloroethane-d4
 Concen: 46.392 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VW005434.D
 Acq: 17 Sep 2018 15:29

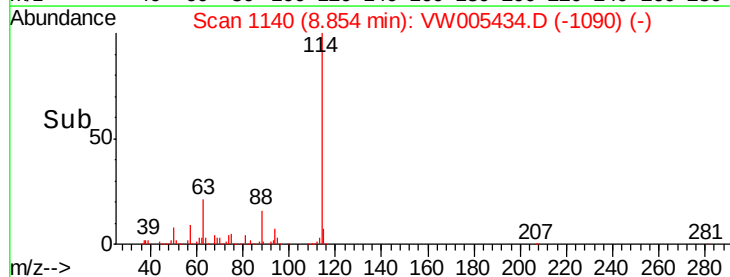
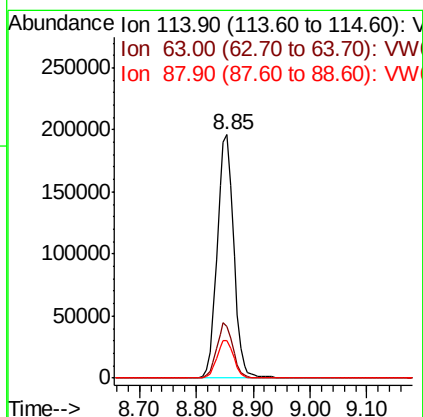
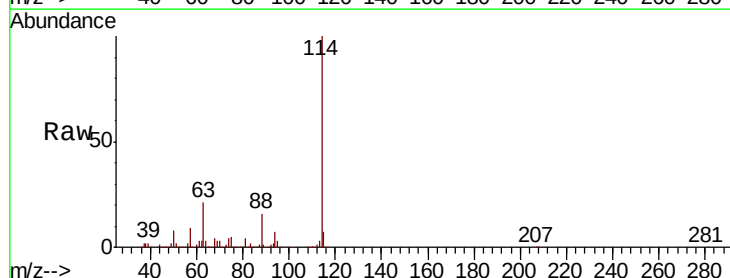
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 MSVOA_W
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 CL-01-091418-E

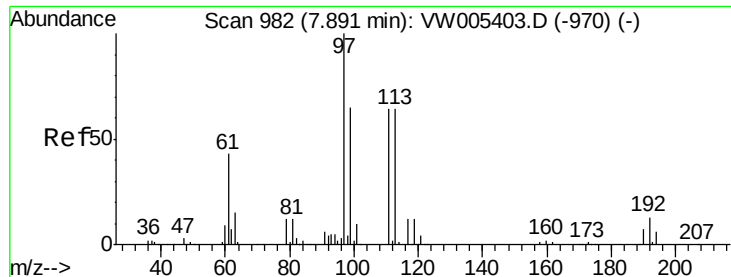
Tgt Ion: 65 Resp: 122234
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VW005434.D
 Acq: 17 Sep 2018 15:29

Tgt Ion: 114 Resp: 394127
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 43.4
 88 15.6 0.0 31.8

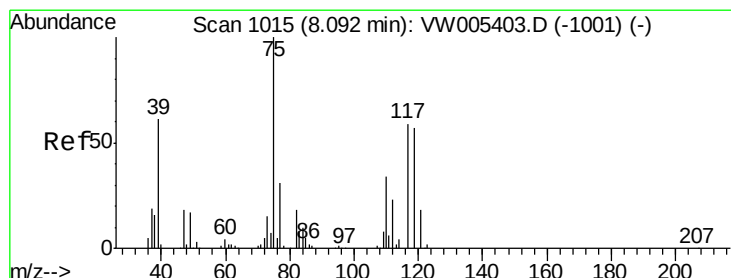
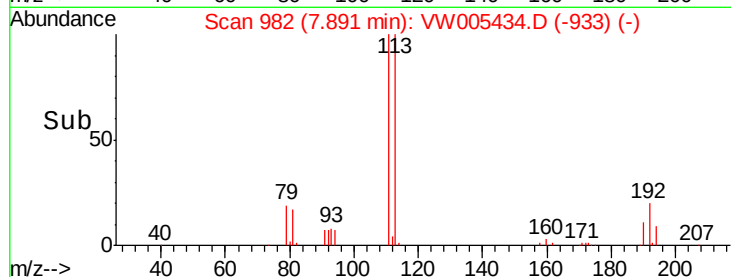
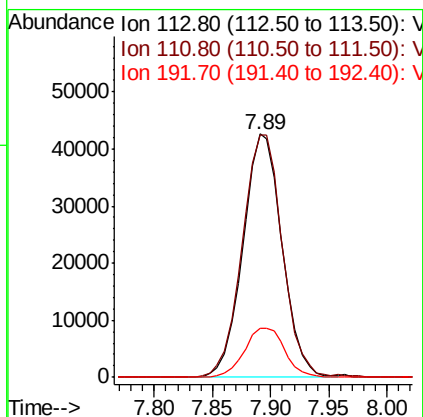
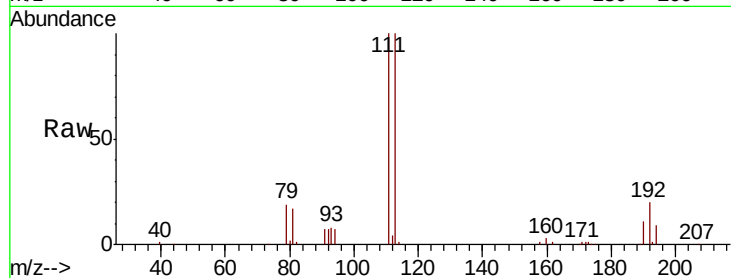




#35
 Dibromofluoromethane
 Concen: 45.164 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW005434.D
 Acq: 17 Sep 2018 15:29

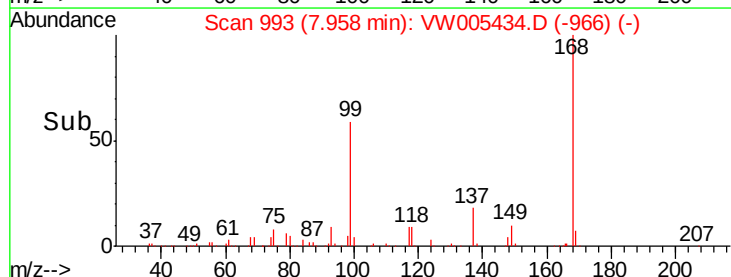
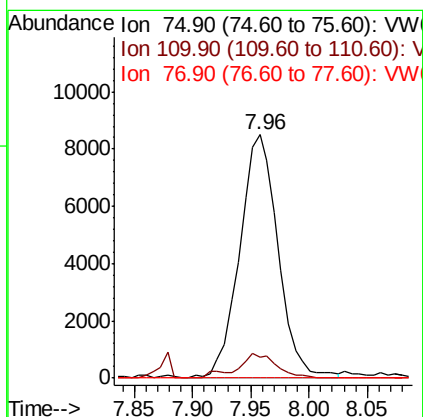
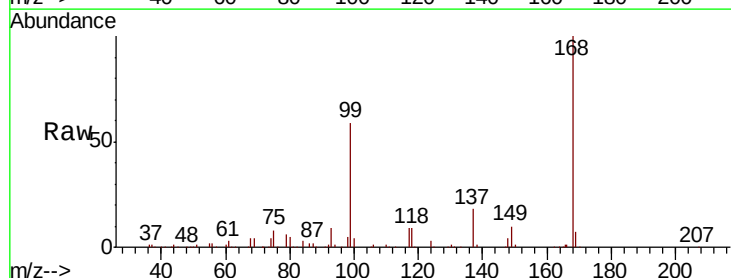
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-091418-E

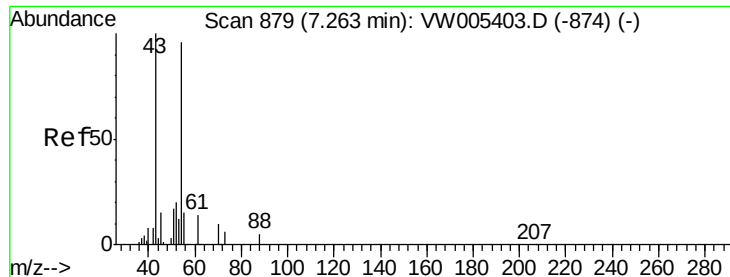
Tgt Ion: 113 Resp: 99805
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.3 123.5
 192 21.1 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 5.231 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005434.D
 Acq: 17 Sep 2018 15:29

Tgt Ion: 75 Resp: 19513
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.8 50.4#
 77 0.0 24.2 36.4#





#37

Ethyl Acetate

Concen: 4.575 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.12 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

CL-01-091418-E

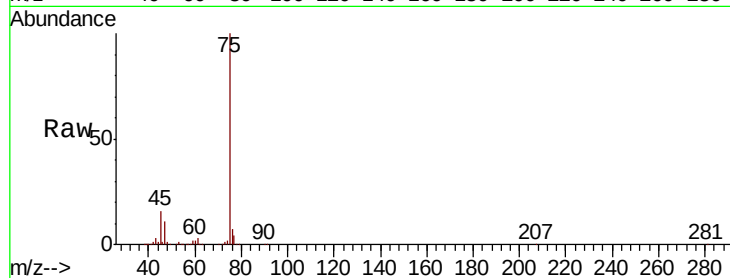
Tgt Ion: 43 Resp: 6940

Ion Ratio Lower Upper

43 100

61 92.6 11.3 16.9#

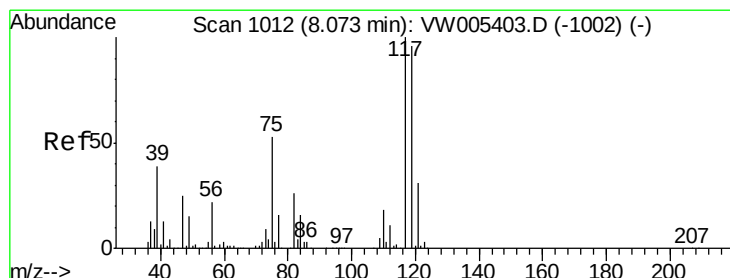
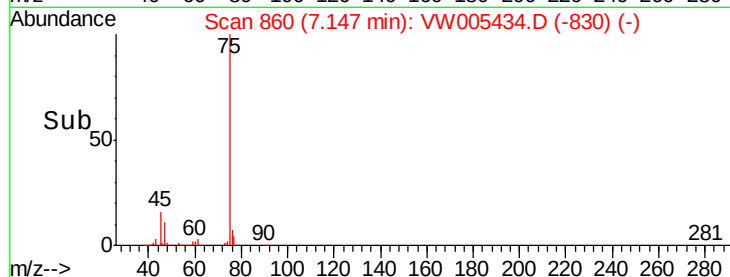
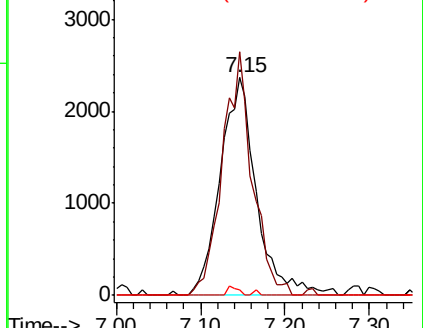
70 1.2 8.2 12.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 6.347 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

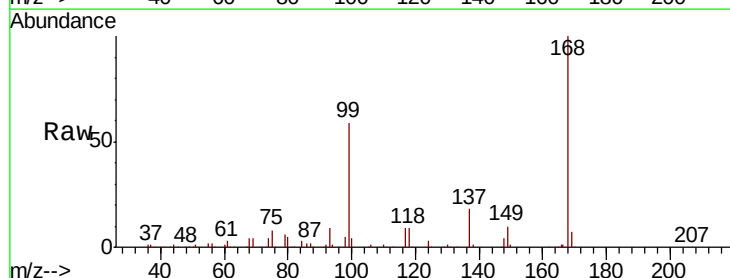
Tgt Ion: 117 Resp: 24671

Ion Ratio Lower Upper

117 100

119 5.2 76.8 115.2#

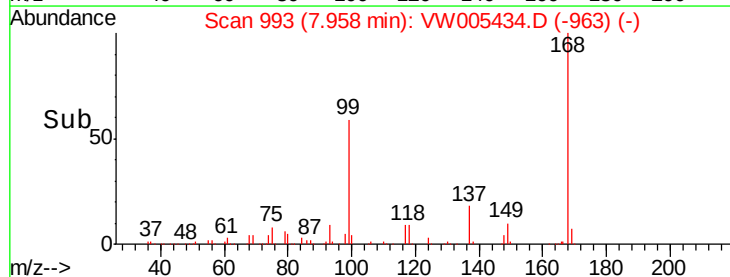
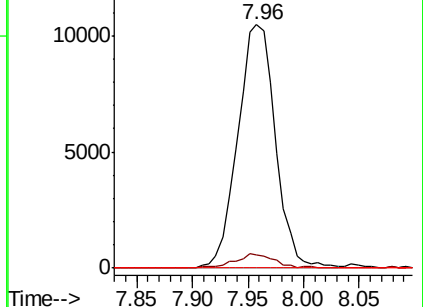
121 0.0 24.7 37.1#

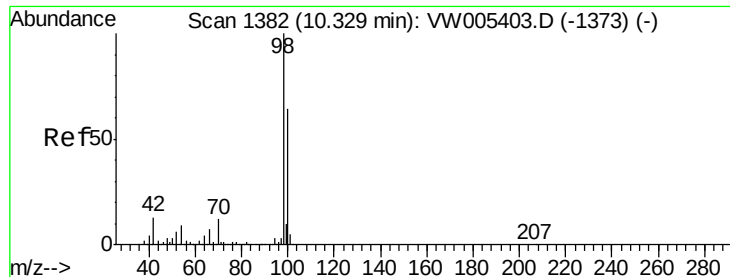


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 39.352 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

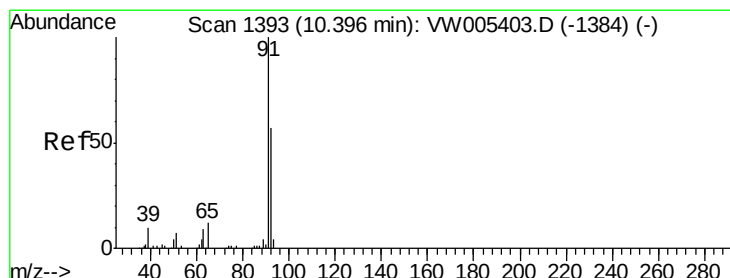
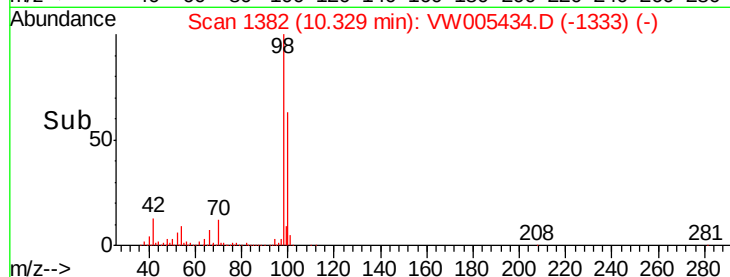
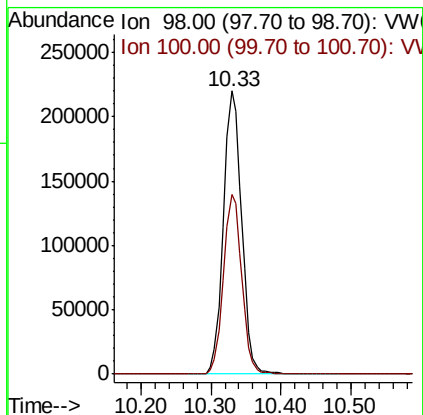
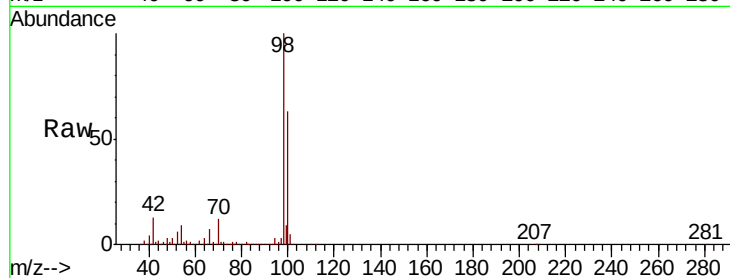
CL-01-091418-E

Tgt Ion: 98 Resp: 398243

Ion Ratio Lower Upper

98 100

100 63.7 51.4 77.0



#52

Toluene

Concen: 1.206 ug/l

RT: 10.40 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VW005434.D

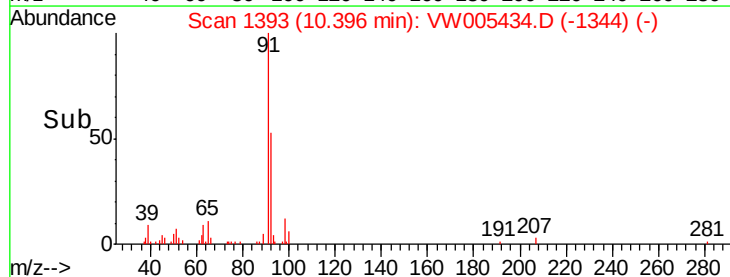
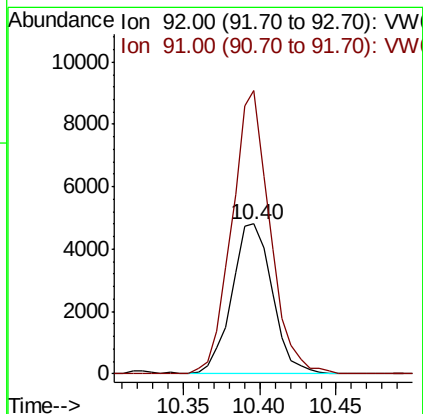
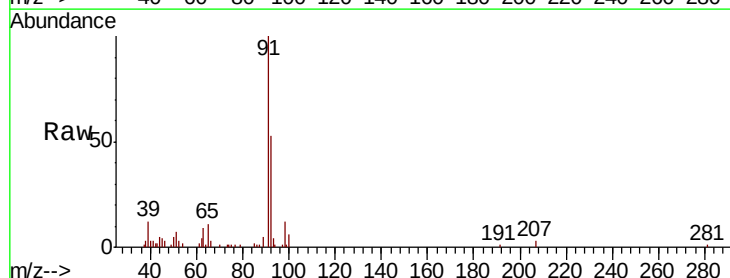
Acq: 17 Sep 2018 15:29

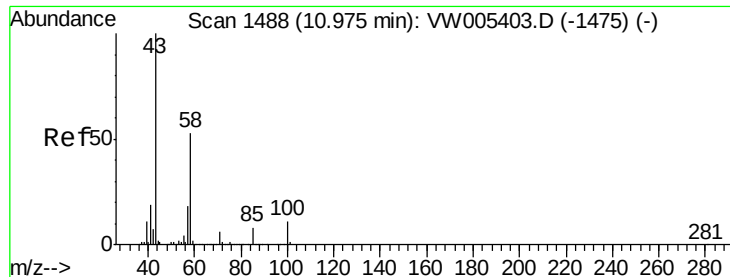
Tgt Ion: 92 Resp: 8823

Ion Ratio Lower Upper

92 100

91 177.5 139.1 208.7

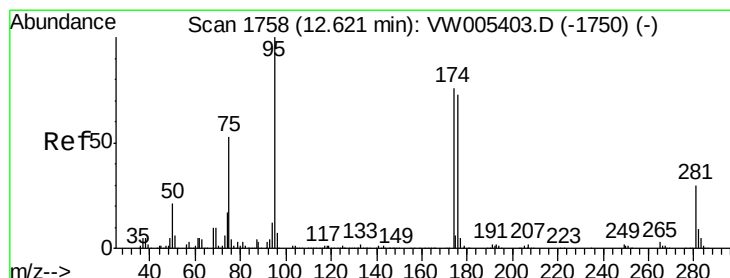
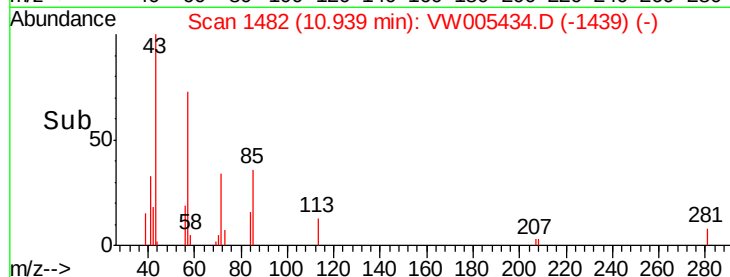
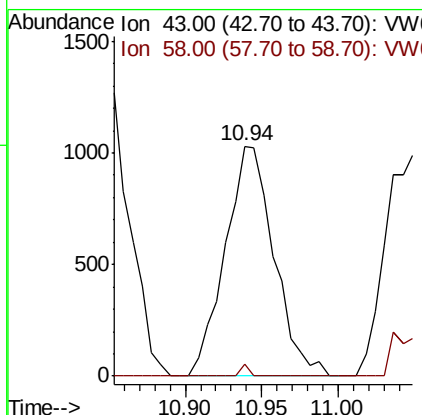
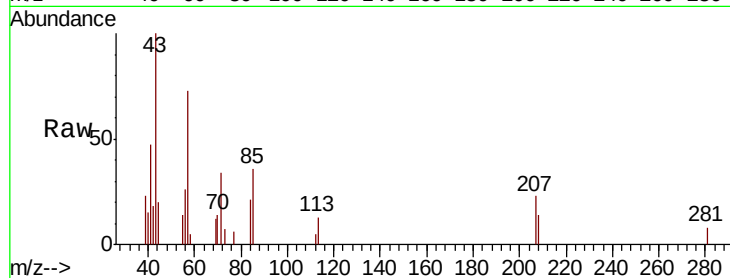




#59
2-Hexanone
Concen: 2.202 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.04 min
Lab File: VW005434.D
Acq: 17 Sep 2018 15:29

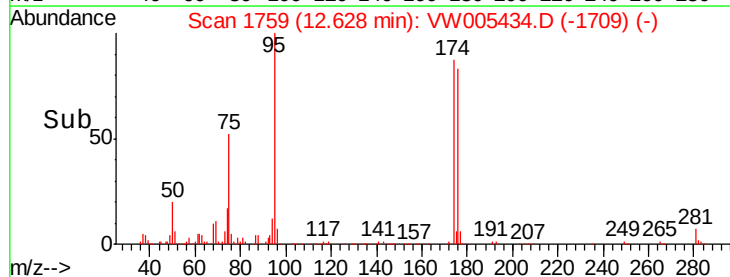
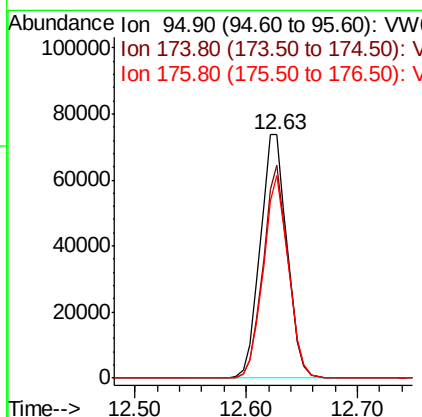
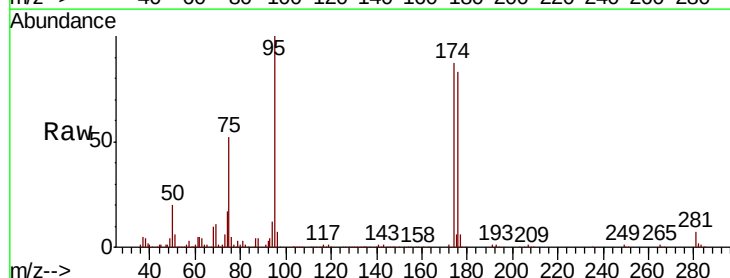
Instrument :
MSVOA_W
ClientSampleId :
CL-01-091418-E

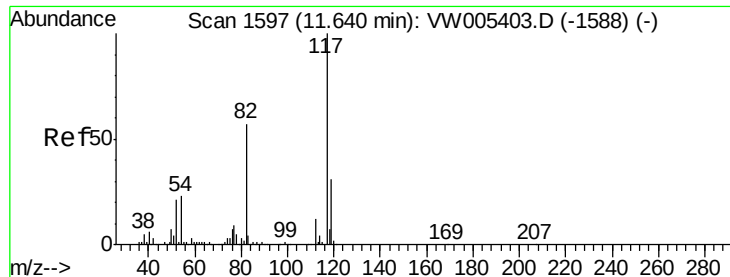
Tgt Ion: 43 Resp: 2286
Ion Ratio Lower Upper
43 100
58 0.8 25.5 76.5#



#62
4-Bromofluorobenzene
Concen: 33.508 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. 0.01 min
Lab File: VW005434.D
Acq: 17 Sep 2018 15:29

Tgt Ion: 95 Resp: 124335
Ion Ratio Lower Upper
95 100
174 81.2 0.0 161.2
176 78.0 0.0 156.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

CL-01-091418-E

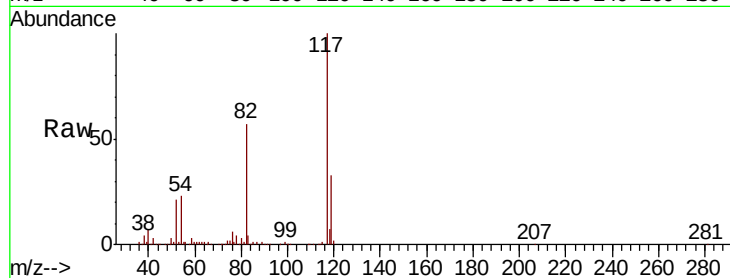
Tgt Ion:117 Resp: 339681

Ion Ratio Lower Upper

117 100

82 57.0 45.9 68.9

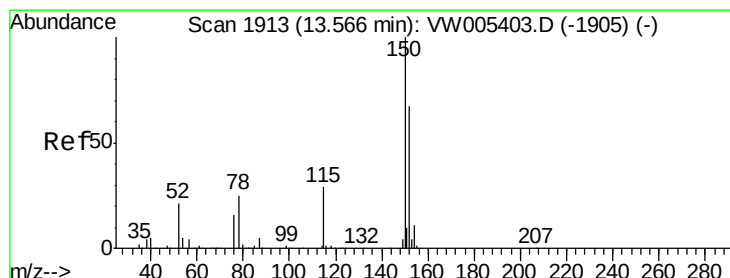
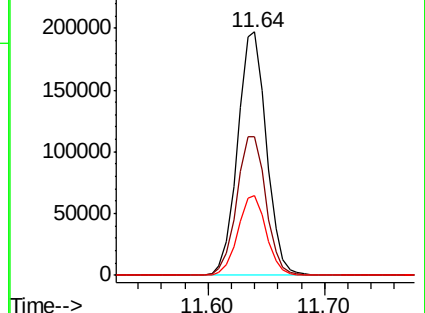
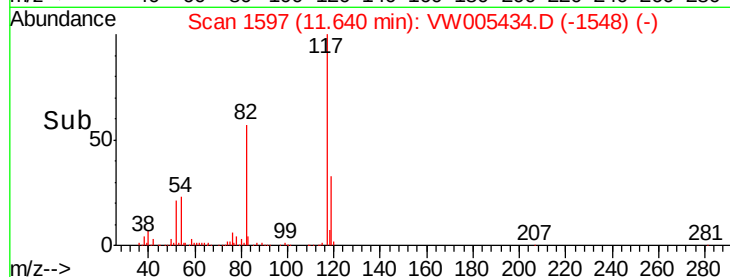
119 32.5 24.8 37.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

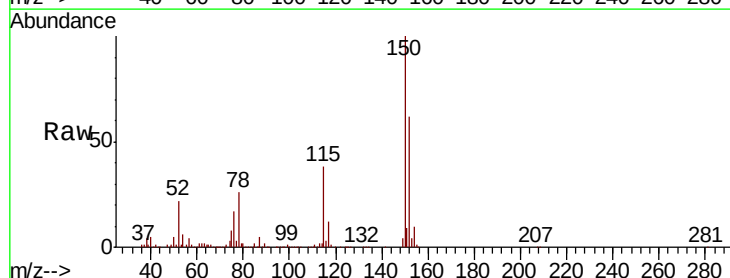
Tgt Ion:152 Resp: 127168

Ion Ratio Lower Upper

152 100

115 59.2 29.5 88.5

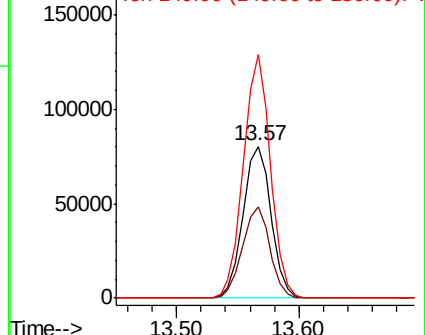
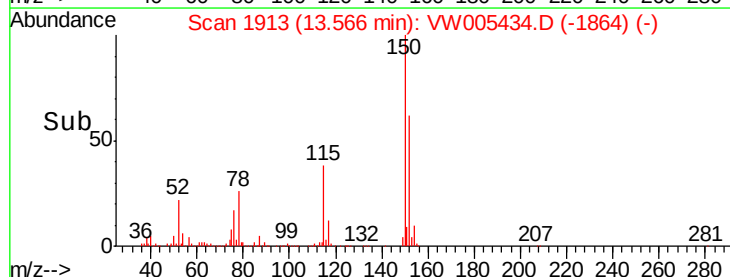
150 155.3 0.0 345.6

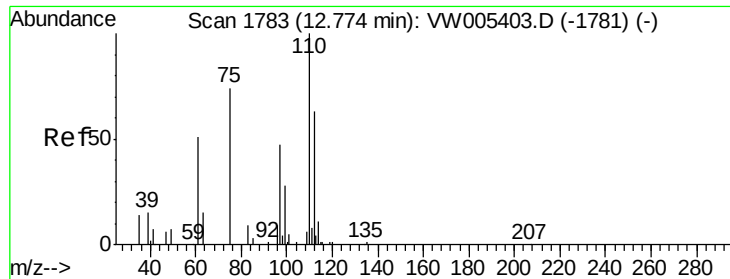


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 61.920 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. -0.15 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

Instrument :

MSVOA_W

ClientSampleId :

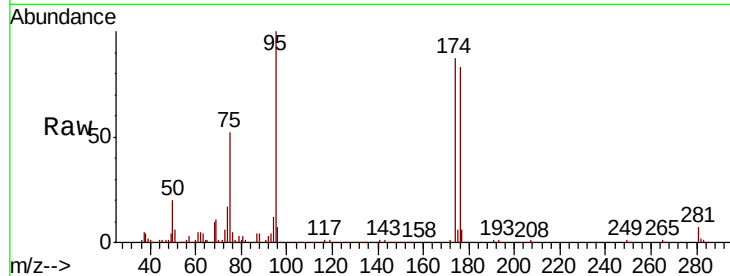
CL-01-091418-E

Tgt Ion: 75 Resp: 64764

Ion Ratio Lower Upper

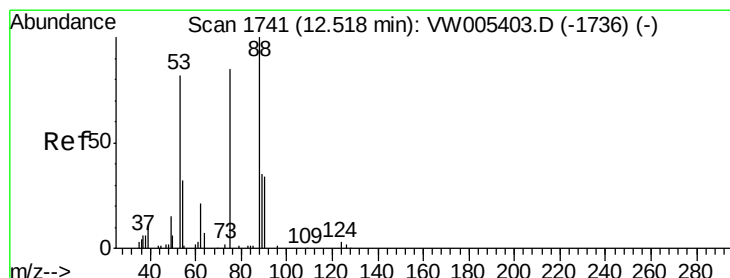
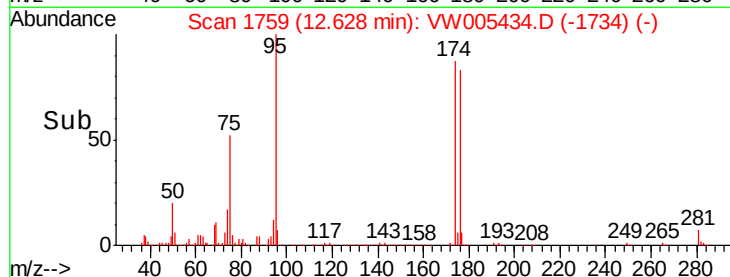
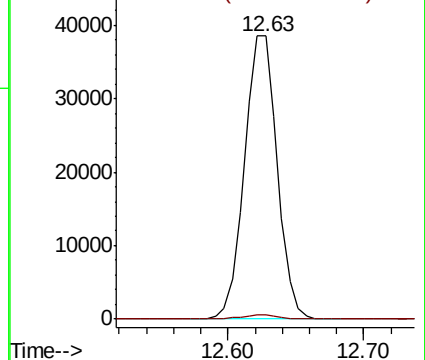
75 100

77 1.7 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: 160.625 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.11 min

Lab File: VW005434.D

Acq: 17 Sep 2018 15:29

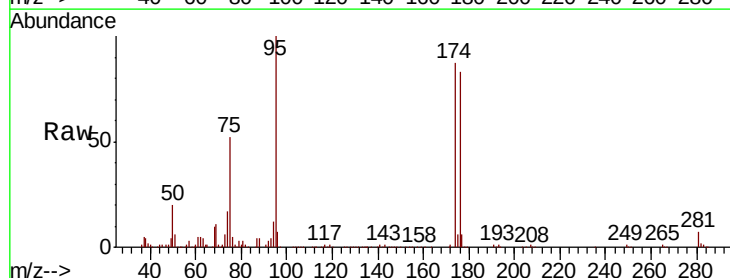
Tgt Ion: 75 Resp: 64764

Ion Ratio Lower Upper

75 100

53 0.4 83.2 124.8#

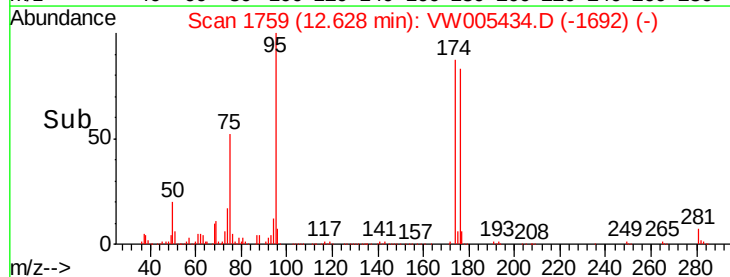
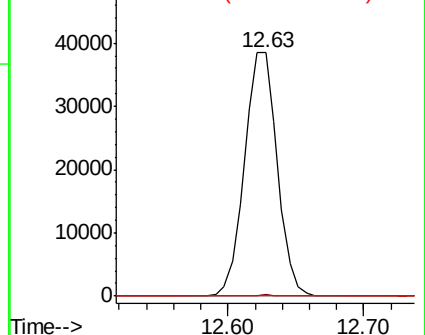
89 0.0 36.6 54.8#

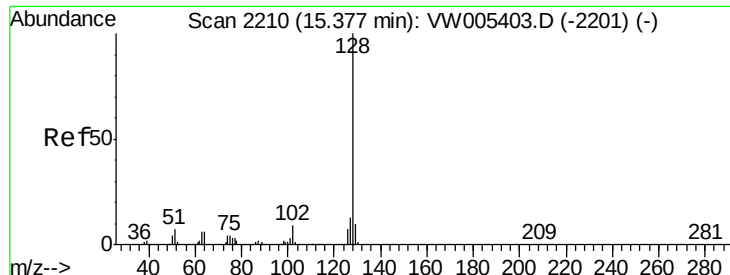


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#95
Naphthalene
Concen: 3.127 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VW005434.D
Acq: 17 Sep 2018 15:29

Instrument :
MSVOA_W
ClientSampleId :
CL-01-091418-E

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.7	11.0	16.4
129	13.6	8.7	13.1

