

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW012418\
 Data File : VW000952.D
 Acq On : 24 Jan 2018 17:25
 Operator : JC/SY
 Sample : J1015-14RE
 Misc : 5.43G/5.0ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-012218-BRE

Quant Time: Jan 25 04:42:51 2018
 Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W012318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 23 13:31:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	11033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	15558	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	14040	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	6020	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	6579	62.21	ug/l	0.00
Spiked Amount			Recovery	=	124.42%	
35) Dibromofluoromethane	7.88	113	1468	15.40	ug/l	0.00
Spiked Amount			Recovery	=	30.80%	
50) Toluene-d8	10.34	98	18757	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
62) 4-Bromofluorobenzene	12.63	95	6528	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	

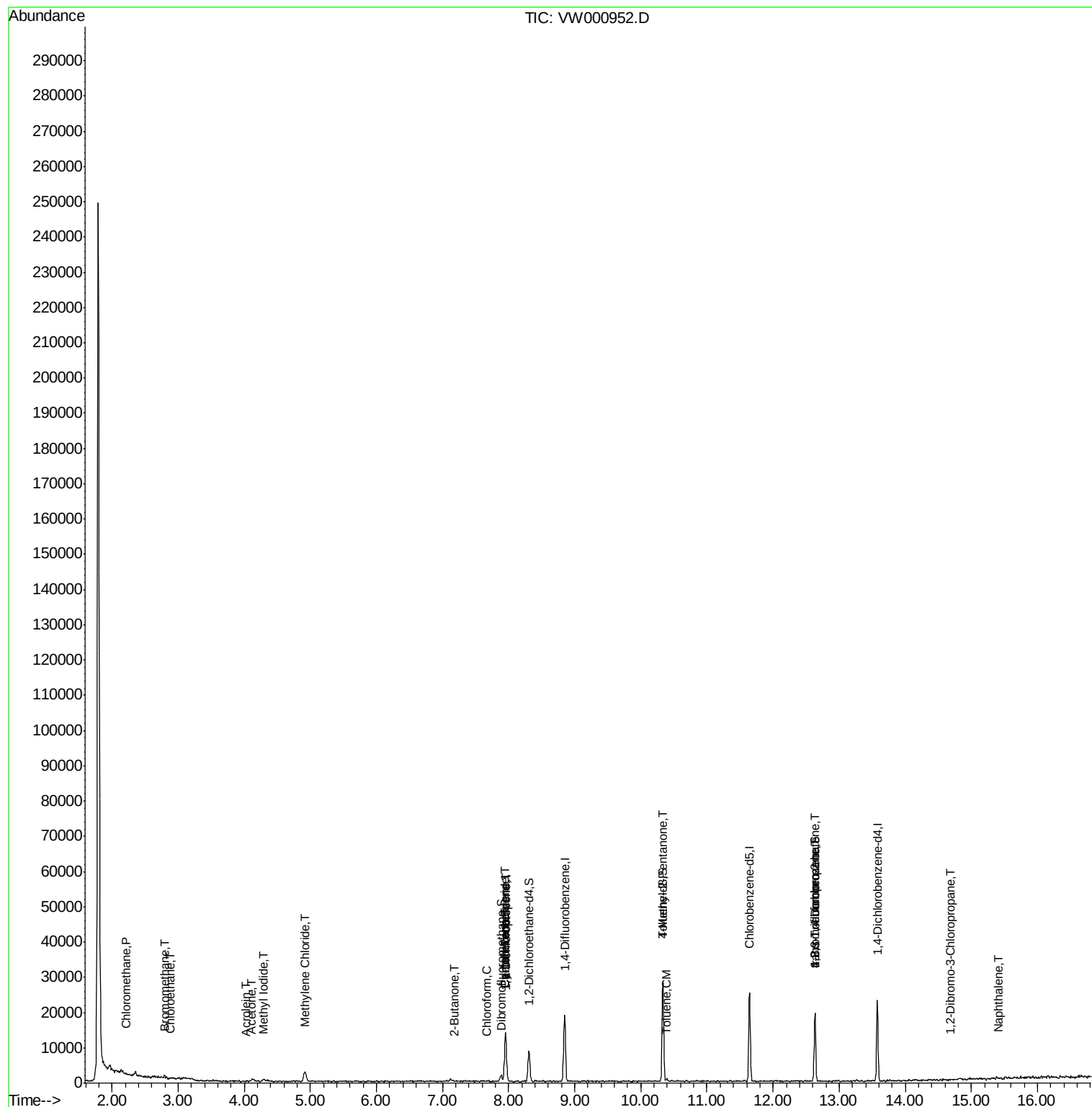
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	261	2.78	ug/l	96
5) Bromomethane	2.81	94	501	7.71	ug/l #	57
6) Chloroethane	2.89	64	85	1.75	ug/l #	42
10) Methyl Iodide	4.29	142	1145	14.23	ug/l #	82
13) Acrolein	4.04	56	23	2.05	ug/l #	15
16) Acetone	4.12	43	1400	46.07	ug/l #	67
20) Methylene Chloride	4.92	84	1938	18.45	ug/l #	84
25) 2-Butanone	7.18	43	74	1.58	ug/l #	48
30) Chloroform	7.67	83	246	1.37	ug/l #	17
31) Cyclohexane	7.96	56	291	1.69	ug/l #	50
36) 1,1-Dichloropropene	7.96	75	948	6.39	ug/l #	40
38) Carbon Tetrachloride	7.95	117	1163	7.10	ug/l #	12
51) 4-Methyl-2-Pentanone	10.33	43	101	1.24	ug/l #	1
52) Toluene	10.40	92	274	1.07	ug/l	98
76) 1,2,3-Trichloropropane	12.63	75	3320	47.66	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	3320	113.26	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.69	75	22	1.20	ug/l #	1
95) Naphthalene	15.40	128	333	1.20	ug/l #	78

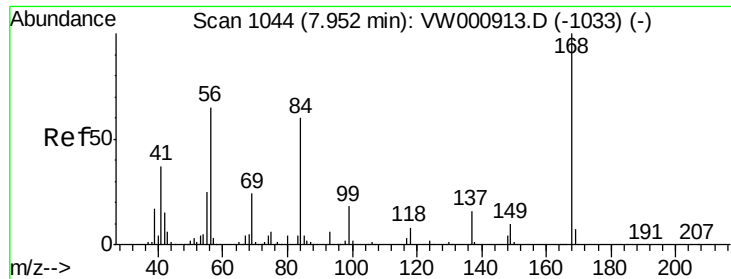
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. 0.01 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

MSVOA_W

ClientSampleId :

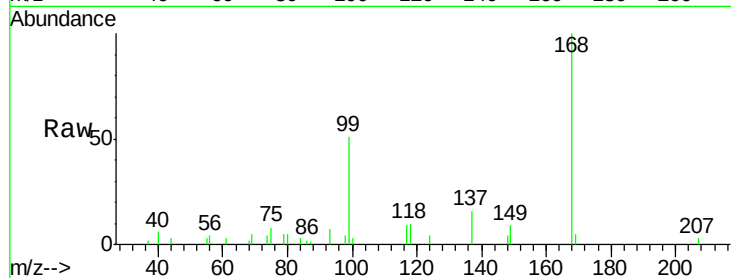
CL-01-012218-BRE

Tot Ion:168 Resp: 11033

Ion Ratio Lower Upper

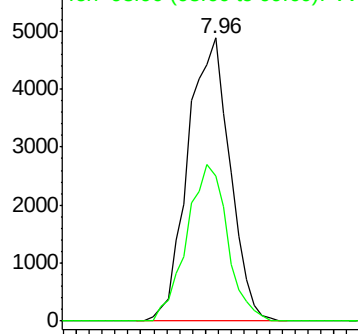
168 100

99 51.1 40.6 61.0

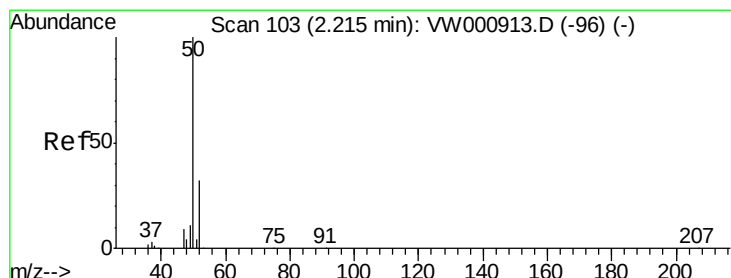
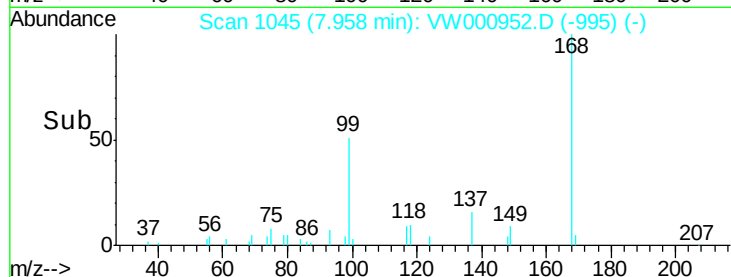


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



Time--> 7.85 7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: 2.78 ug/l

RT: 2.21 min Scan# 103

Delta R.T. -0.00 min

Lab File: VW000952.D

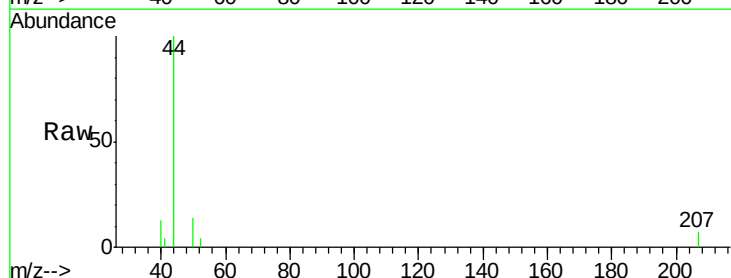
Acq: 24 Jan 2018 17:25

Tgt Ion: 50 Resp: 261

Ion Ratio Lower Upper

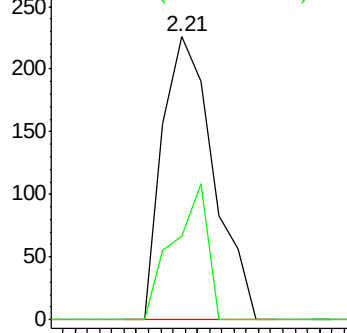
50 100

52 29.6 25.5 38.3

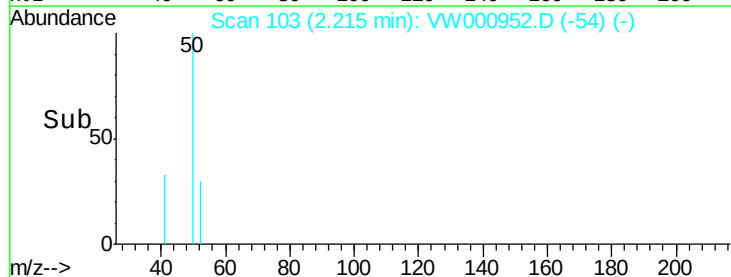


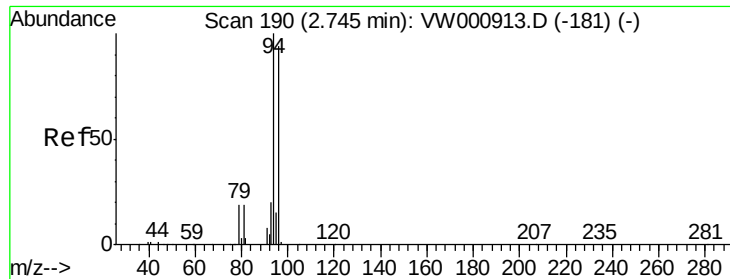
Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



Time--> 2.18 2.20 2.22 2.24 2.26





#5

Bromomethane

Concen: 7.71 ug/l

RT: 2.81 min Scan# 200

Delta R.T. 0.06 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

MSVOA_W

ClientSampleId :

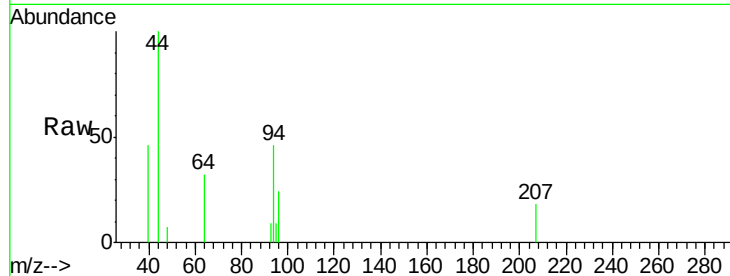
CL-01-012218-BRE

Tot Ion: 94 Resp: 501

Ion Ratio Lower Upper

94 100

96 53.1 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.81

300

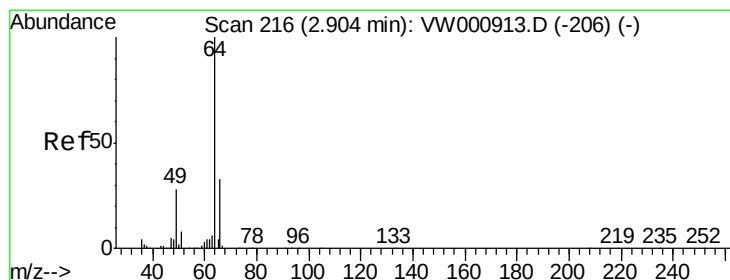
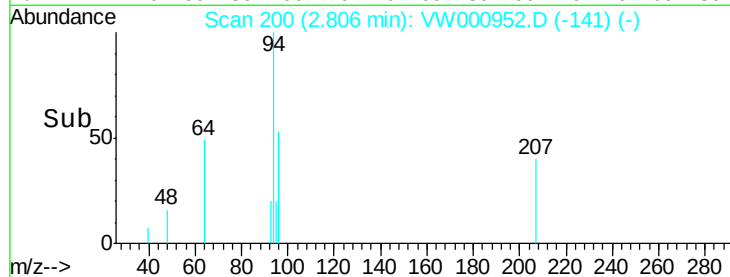
200

100

0

2.75 2.80 2.85

Time-->



#6

Chloroethane

Concen: 1.75 ug/l

RT: 2.89 min Scan# 213

Delta R.T. -0.02 min

Lab File: VW000952.D

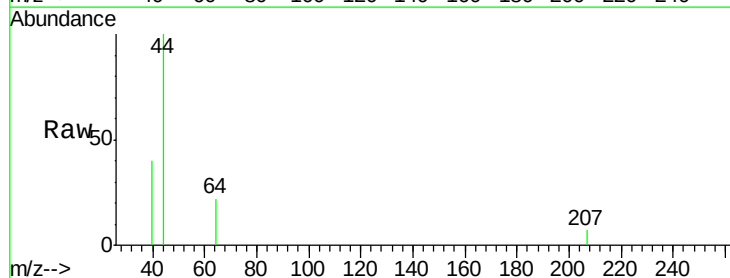
Acq: 24 Jan 2018 17:25

Tgt Ion: 64 Resp: 85

Ion Ratio Lower Upper

64 100

66 0.0 26.1 39.1#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW

2.89

200

150

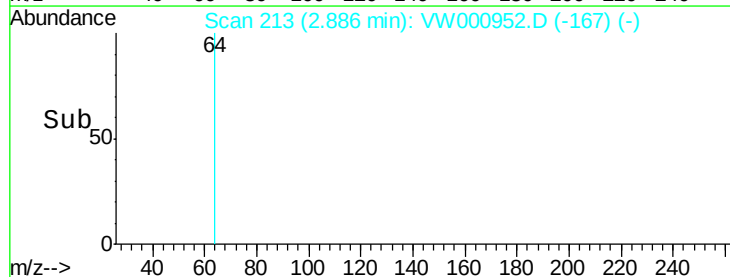
100

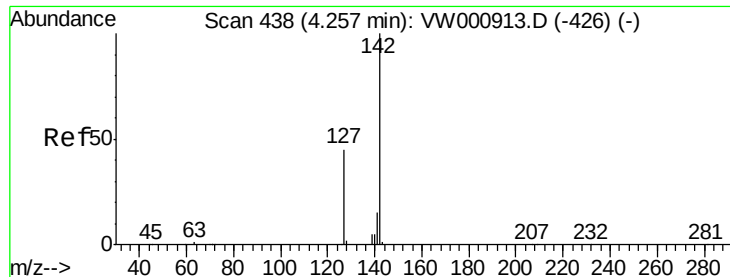
50

0

2.86 2.88 2.90

Time-->

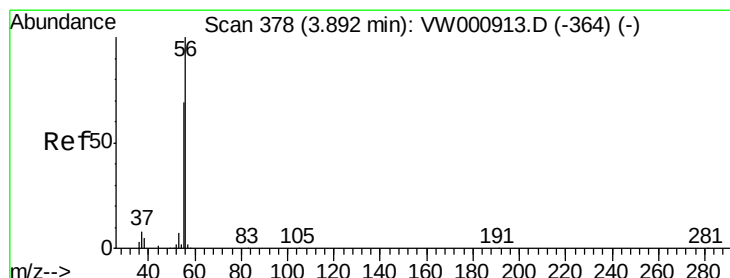
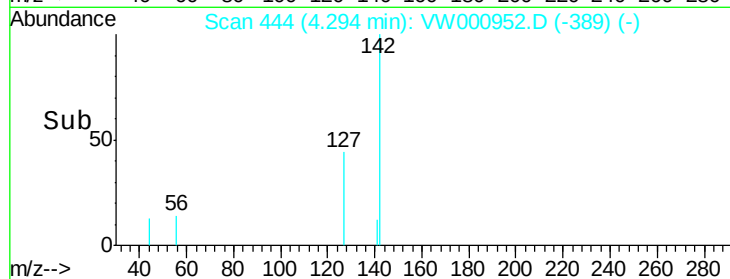
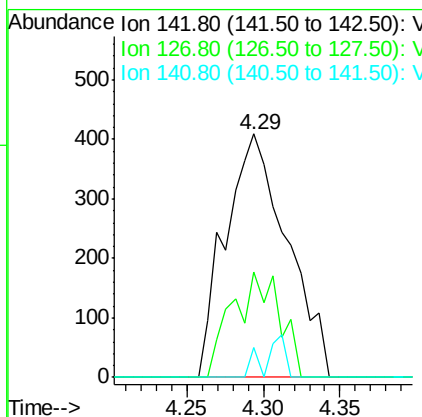
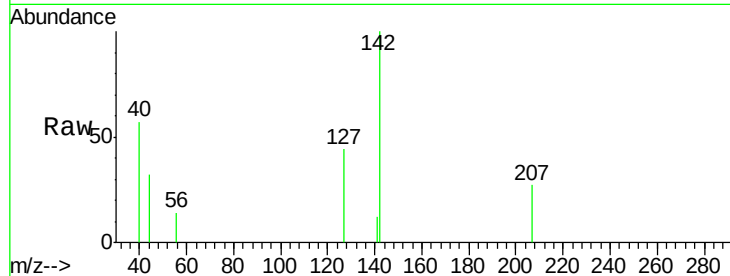




#10
Methvl Iodide
Concen: 14.23 ug/l
RT: 4.29 min Scan# 444
Delta R.T. 0.04 min
Lab File: VW000952.D
Acq: 24 Jan 2018 17:25

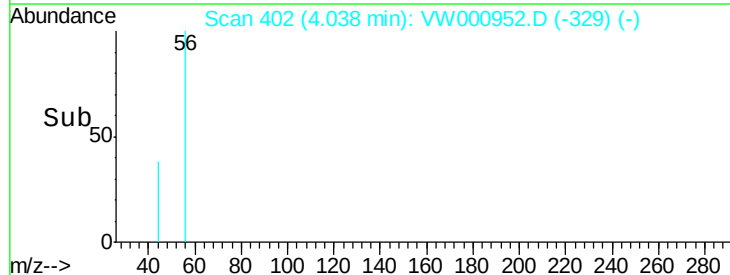
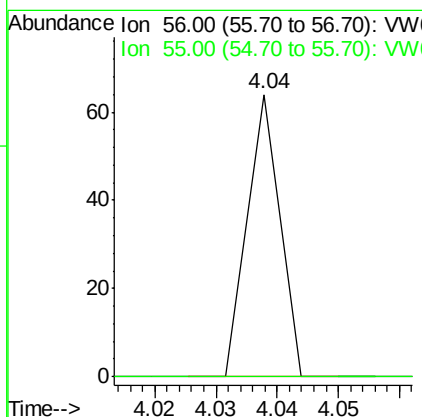
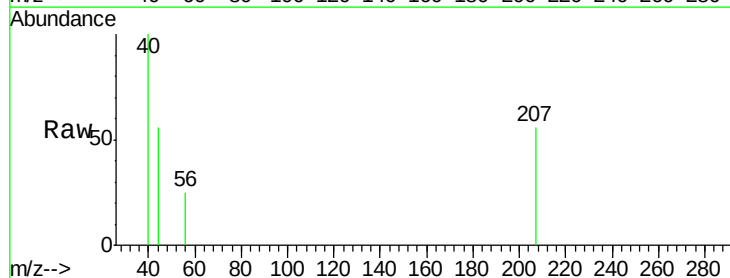
Instrument :
MSVOA_W
ClientSampleId :
CL-01-012218-BRE

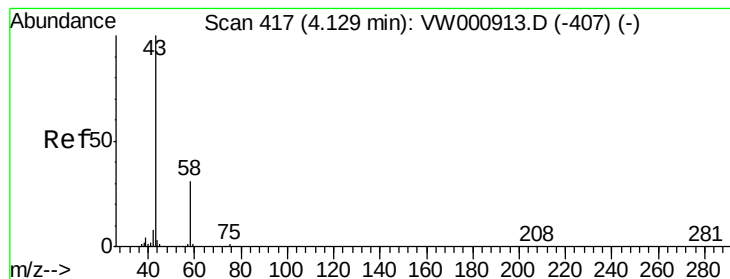
Tot Ion:142 Resp: 1145
Ion Ratio Lower Upper
142 100
127 33.3 35.5 53.3#
141 5.7 11.7 17.5#



#13
Acrolein
Concen: 2.05 ug/l
RT: 4.04 min Scan# 402
Delta R.T. 0.15 min
Lab File: VW000952.D
Acq: 24 Jan 2018 17:25

Tgt Ion: 56 Resp: 23
Ion Ratio Lower Upper
56 100
55 0.0 55.4 83.0#





#16

Acetone

Concen: 46.07 ug/l

RT: 4.12 min Scan# 415

Delta R.T. -0.01 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

MSVOA_W

ClientSampleId :

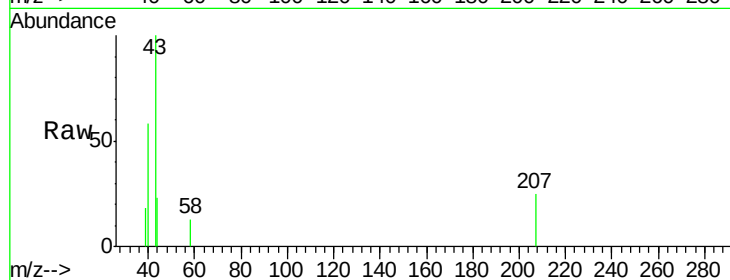
CL-01-012218-BRE

Tot Ion: 43 Resp: 1400

Ion Ratio Lower Upper

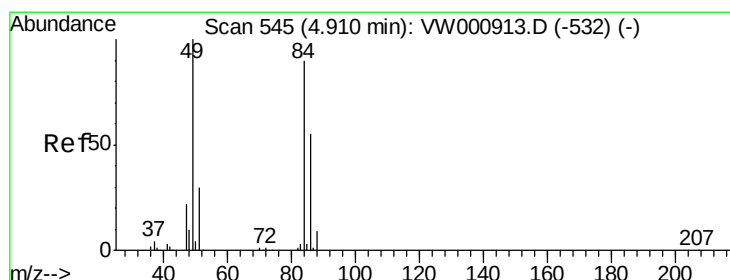
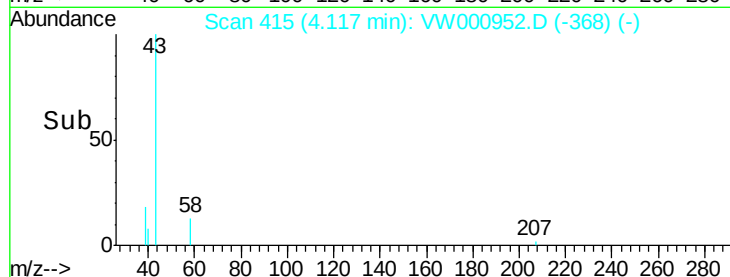
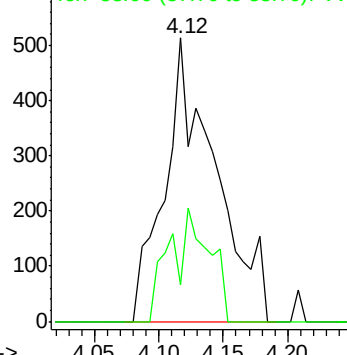
43 100

58 13.1 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 18.45 ug/l

RT: 4.92 min Scan# 546

Delta R.T. 0.01 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Tgt Ion: 84 Resp: 1938

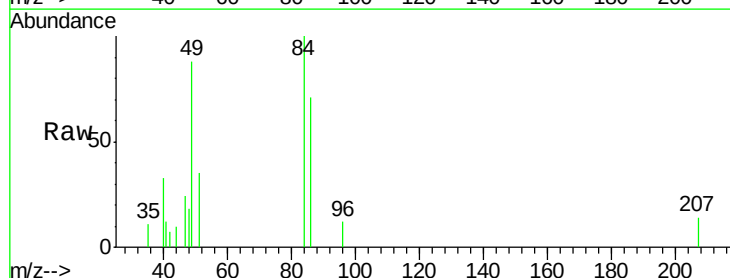
Ion Ratio Lower Upper

84 100

49 88.3 89.0 133.4#

51 35.0 26.7 40.1

86 70.6 48.7 73.1

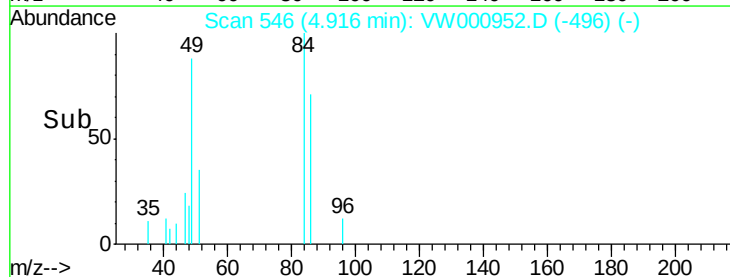
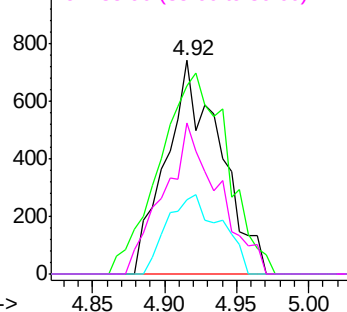


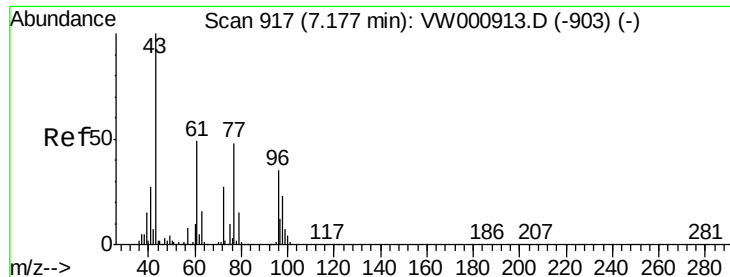
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 1.58 ug/l

RT: 7.18 min Scan# 918

Delta R.T. 0.01 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

MSVOA_W

ClientSampleId :

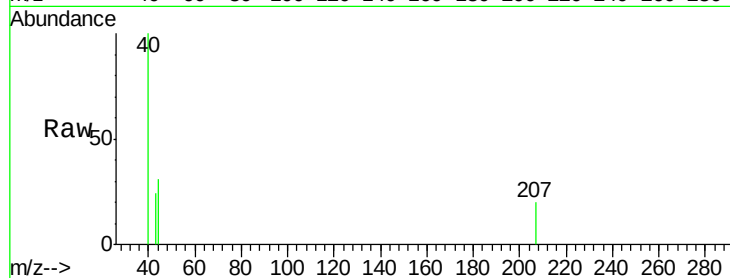
CL-01-012218-BRE

Tot Ion: 43 Resp: 74

Ion Ratio Lower Upper

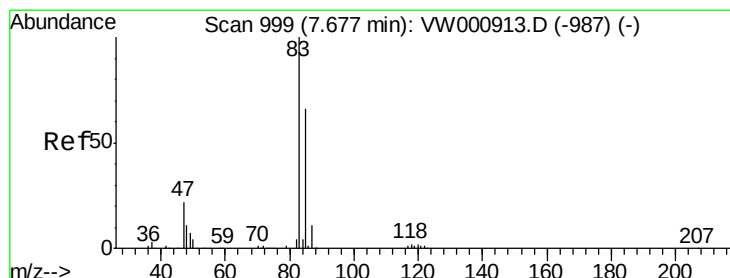
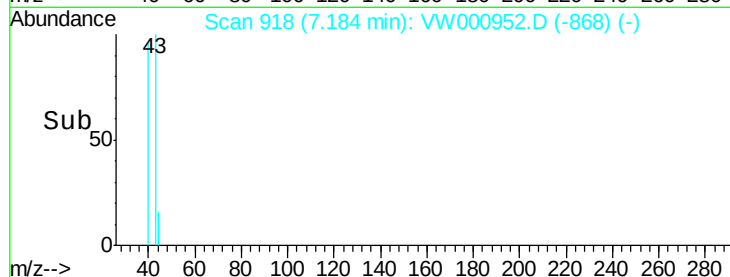
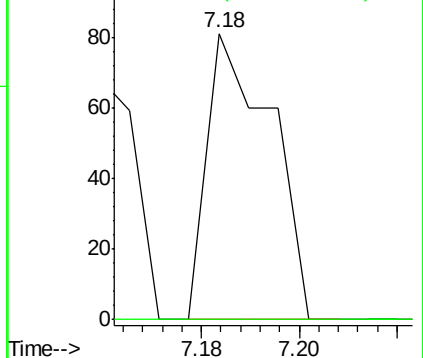
43 100

72 0.0 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#30

Chloroform

Concen: 1.37 ug/l

RT: 7.67 min Scan# 997

Delta R.T. -0.01 min

Lab File: VW000952.D

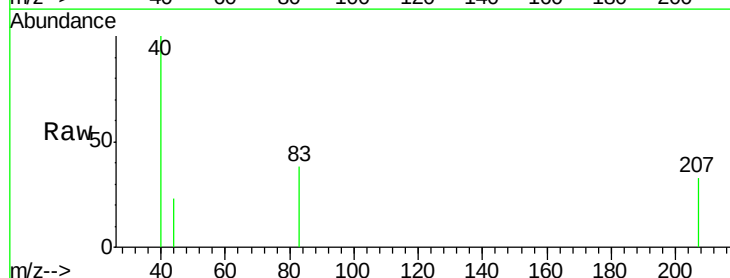
Acq: 24 Jan 2018 17:25

Tgt Ion: 83 Resp: 246

Ion Ratio Lower Upper

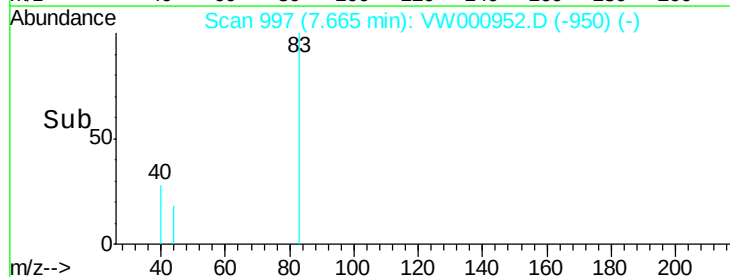
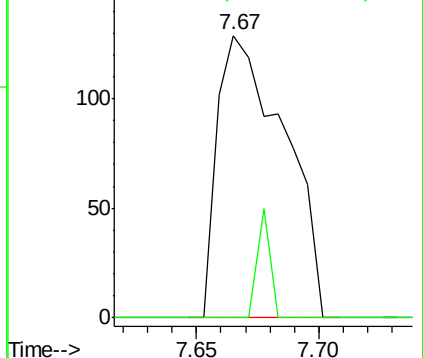
83 100

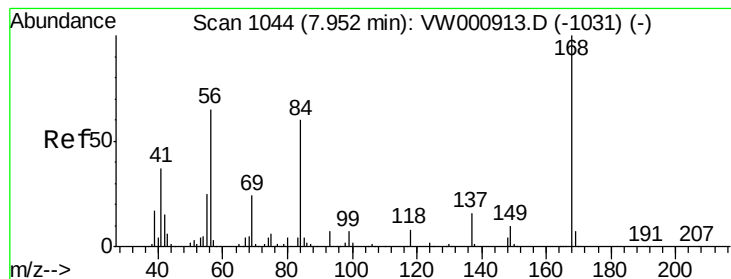
85 0.0 52.5 78.7#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 1.69 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. 0.01 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

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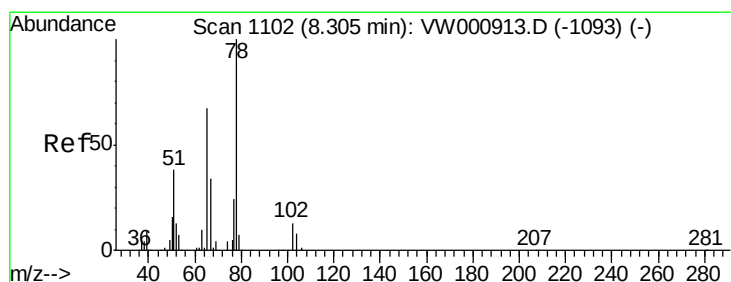
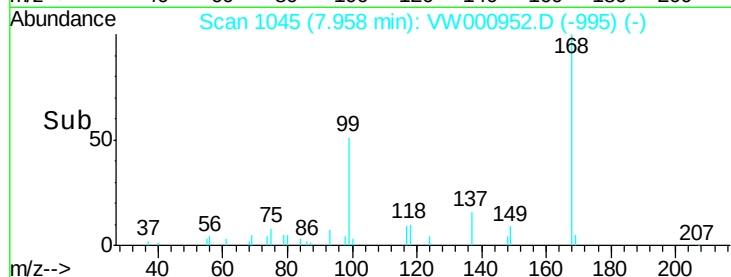
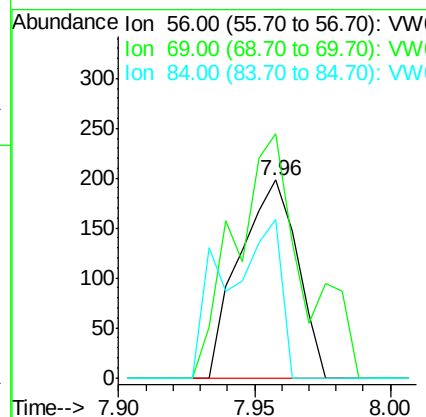
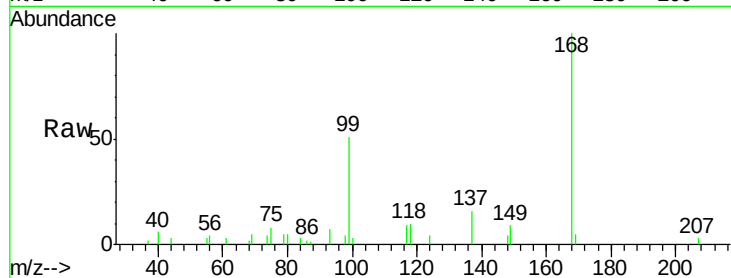
Tot Ion: 56 Resp: 291

Ion Ratio Lower Upper

56 100

69 123.2 29.2 43.8#

84 80.3 73.6 110.4



#33

1,2-Dichloroethane-d4

Concen: 62.21 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VW000952.D

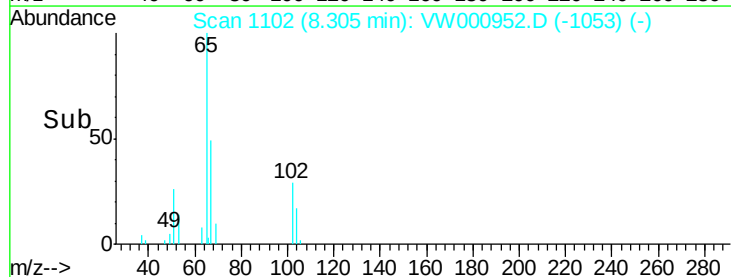
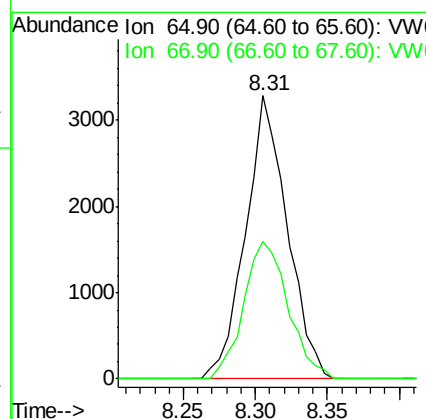
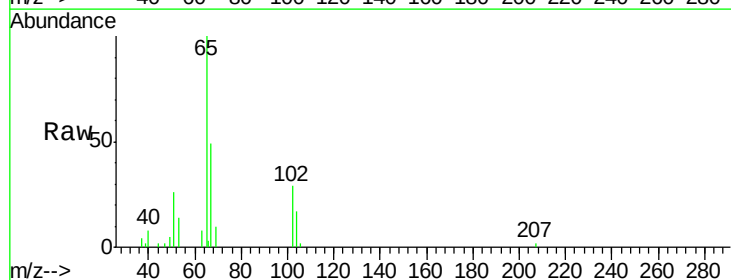
Acq: 24 Jan 2018 17:25

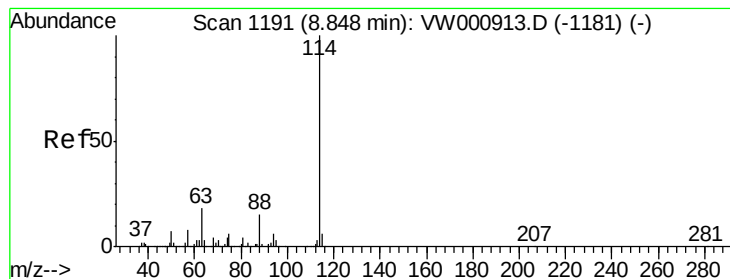
Tgt Ion: 65 Resp: 6579

Ion Ratio Lower Upper

65 100

67 52.0 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.84 min Scan# 1190

Delta R.T. -0.01 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

MSVOA_W

ClientSampleId :

CL-01-012218-BRE

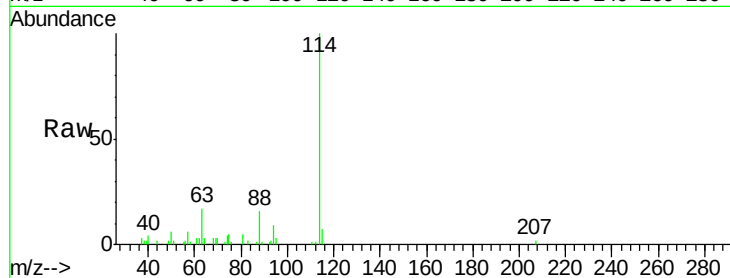
Tot Ion:114 Resp: 15558

Ion Ratio Lower Upper

114 100

63 17.2 0.0 36.8

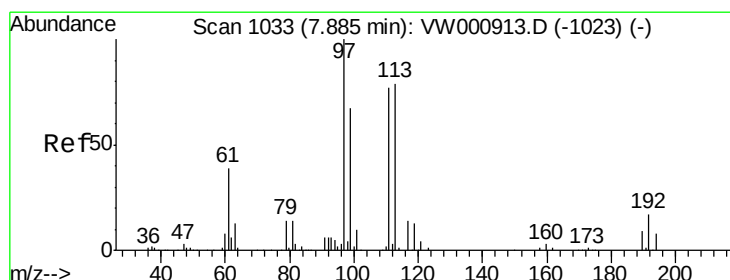
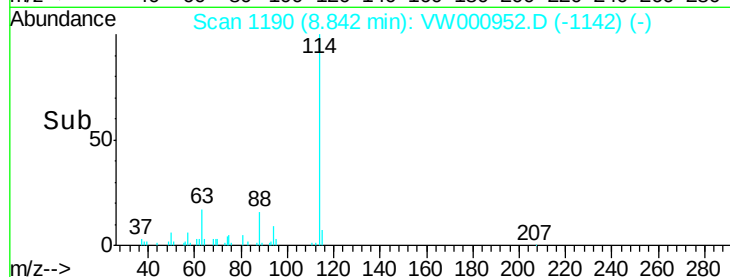
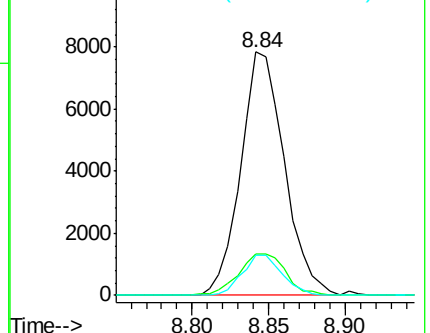
88 16.3 0.0 29.8



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: 15.40 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. -0.00 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

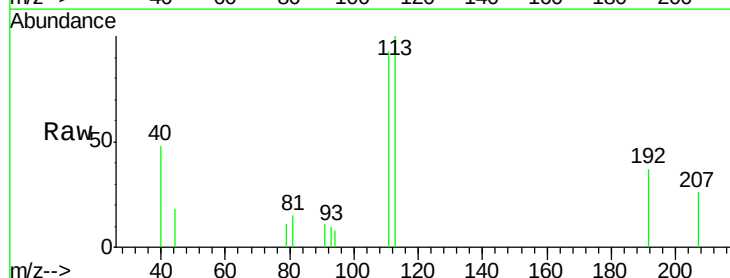
Tgt Ion:113 Resp: 1468

Ion Ratio Lower Upper

113 100

111 99.0 80.4 120.6

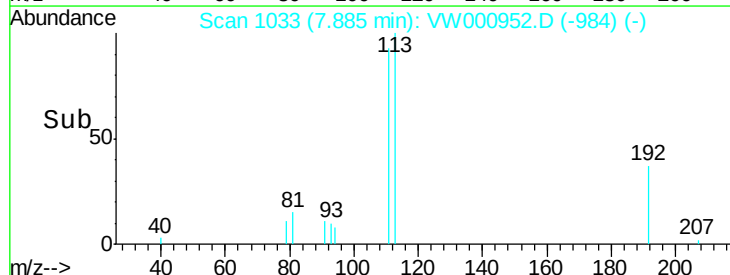
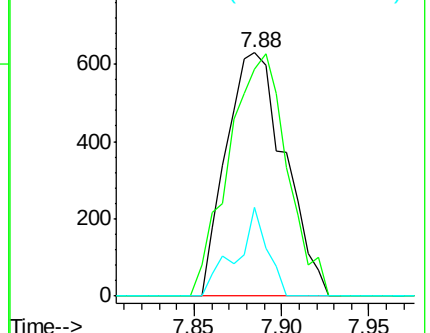
192 19.6 17.0 25.4

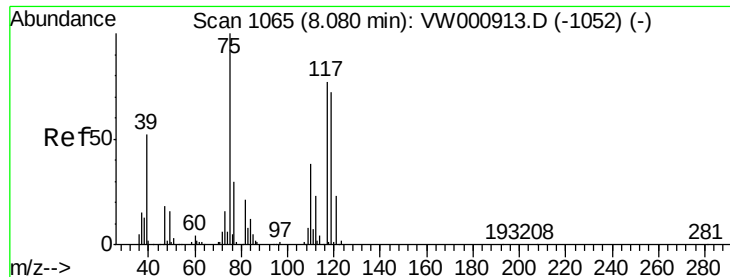


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.39 ug/l

RT: 7.96 min Scan# 1046

Delta R.T. -0.12 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

MSVOA_W

ClientSampleId :

CL-01-012218-BRE

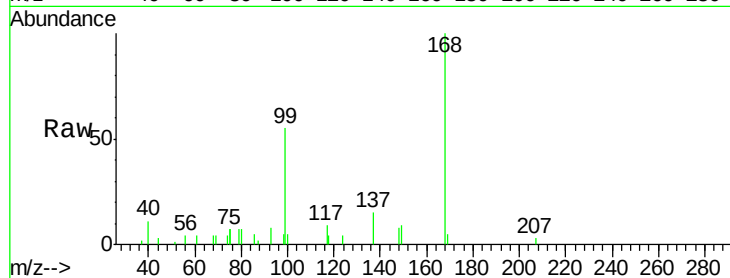
Tot Ion: 75 Resp: 948

Ion Ratio Lower Upper

75 100

110 0.0 18.6 56.0#

77 0.0 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

7.96

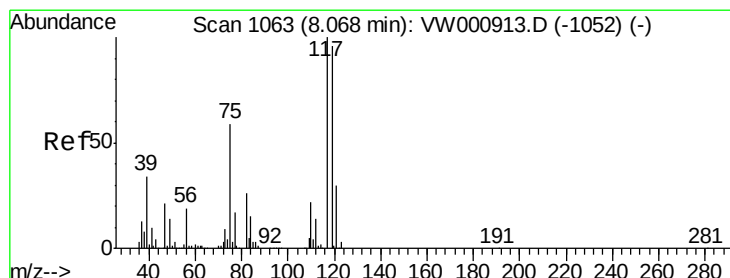
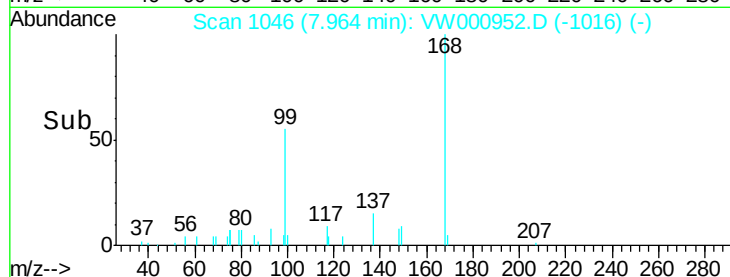
400

200

0

7.90 7.95 8.00

Time-->



#38

Carbon Tetrachloride

Concen: 7.10 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

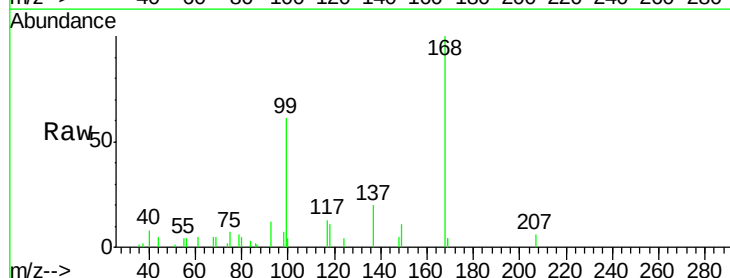
Tgt Ion: 117 Resp: 1163

Ion Ratio Lower Upper

117 100

119 0.0 76.5 114.7#

121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

7.95

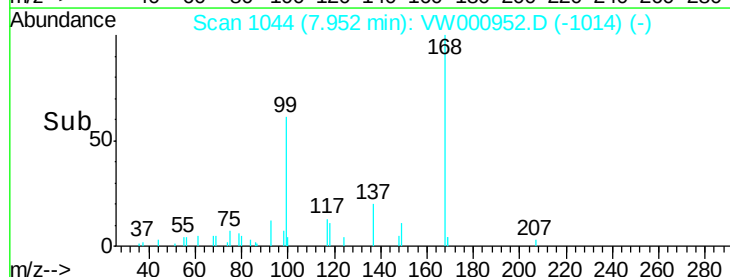
400

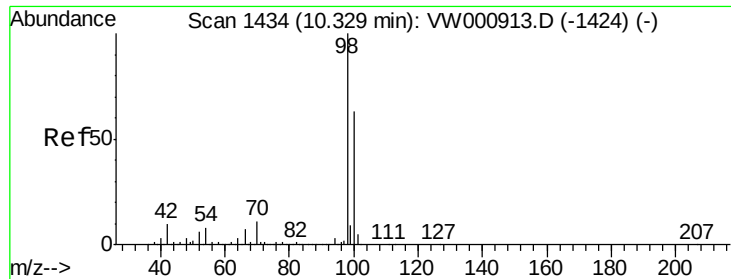
200

0

7.90 7.95 8.00

Time-->





#50

Toluene-d8

Concen: 49.92 ug/l

RT: 10.34 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

MSVOA_W

ClientSampleId :

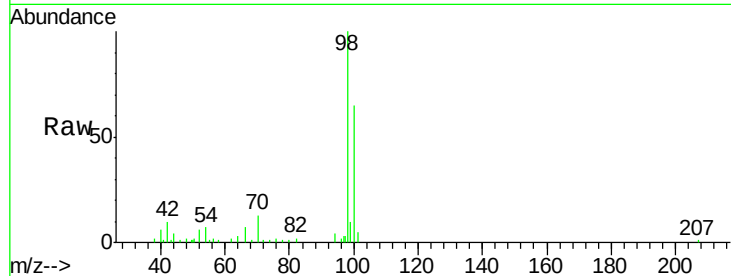
CL-01-012218-BRE

Tot Ion: 98 Resp: 18757

Ion Ratio Lower Upper

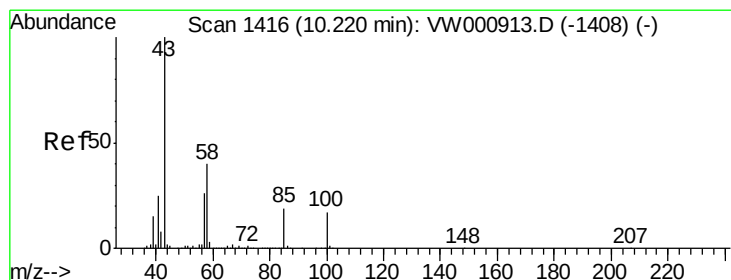
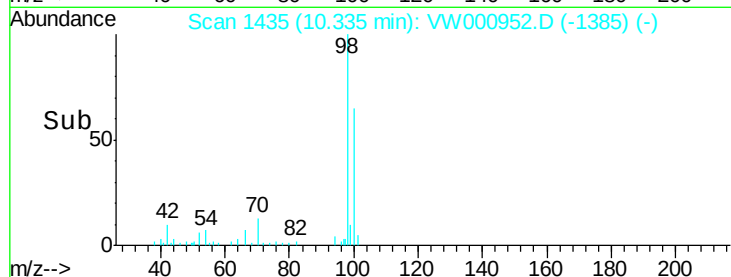
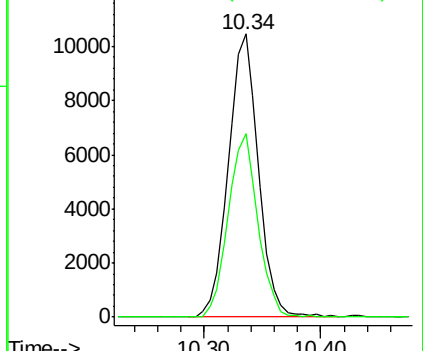
98 100

100 63.8 50.8 76.2



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: 1.24 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.11 min

Lab File: VW000952.D

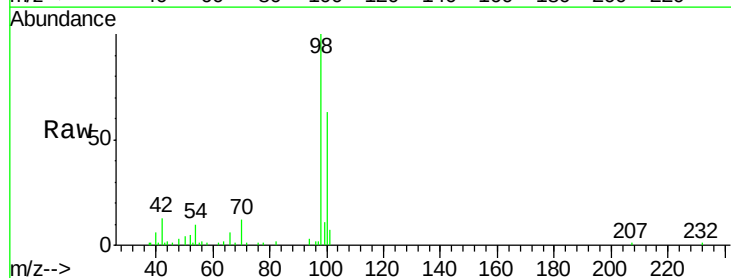
Acq: 24 Jan 2018 17:25

Tgt Ion: 43 Resp: 101

Ion Ratio Lower Upper

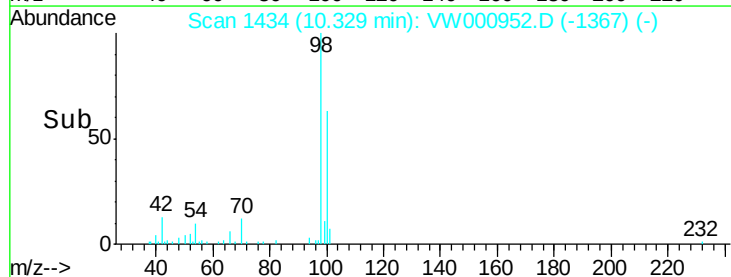
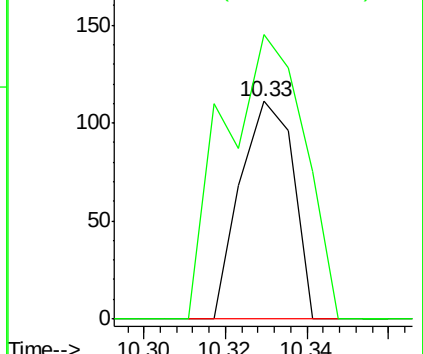
43 100

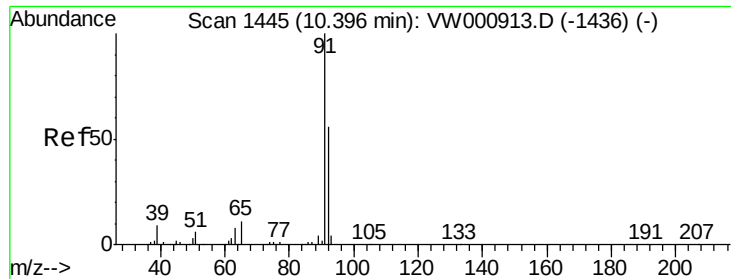
58 197.0 32.0 48.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 1.07 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. -0.00 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

Instrument :

MSVOA_W

ClientSampleId :

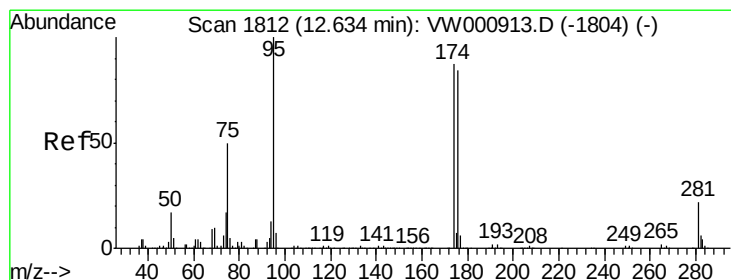
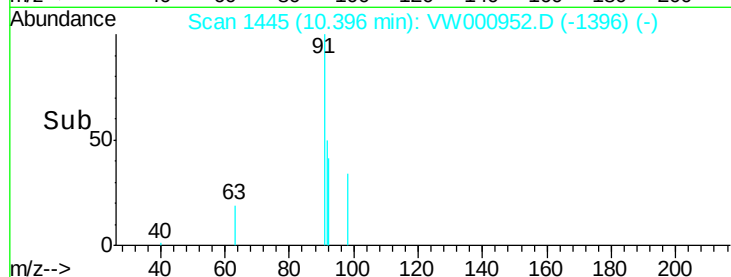
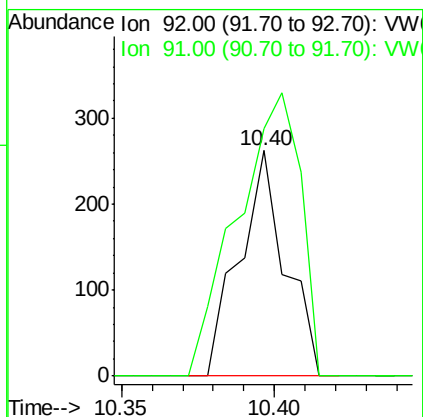
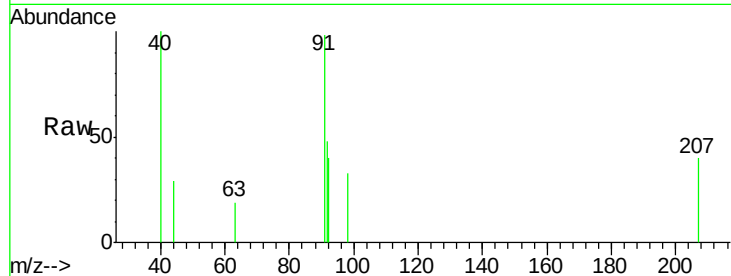
CL-01-012218-BRE

Tot Ion: 92 Resp: 274

Ion Ratio Lower Upper

92 100

91 173.0 140.7 211.1



#62

4-Bromofluorobenzene

Concen: 47.71 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW000952.D

Acq: 24 Jan 2018 17:25

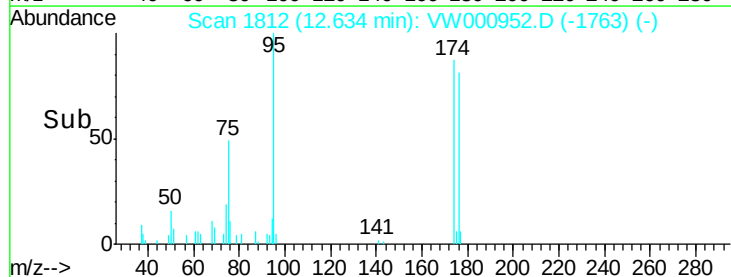
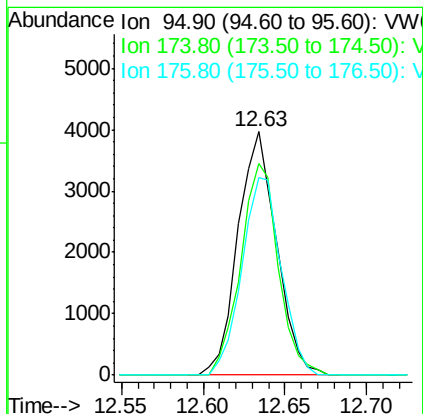
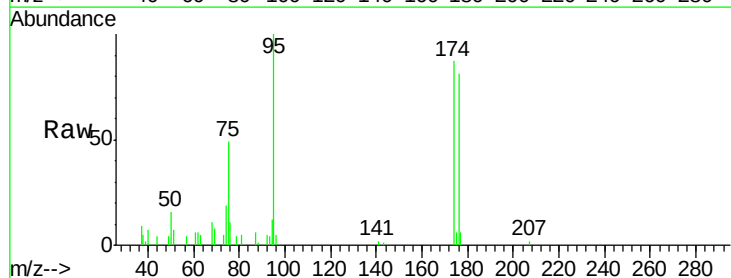
Tgt Ion: 95 Resp: 6528

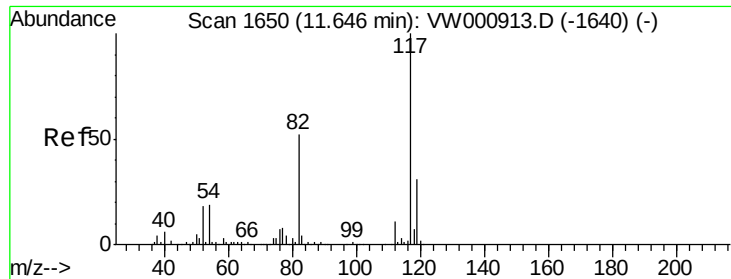
Ion Ratio Lower Upper

95 100

174 85.5 0.0 176.8

176 83.0 0.0 171.8

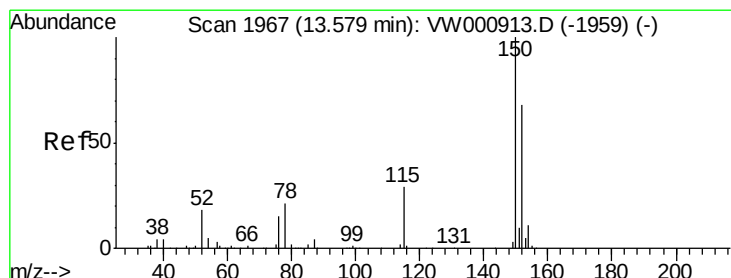
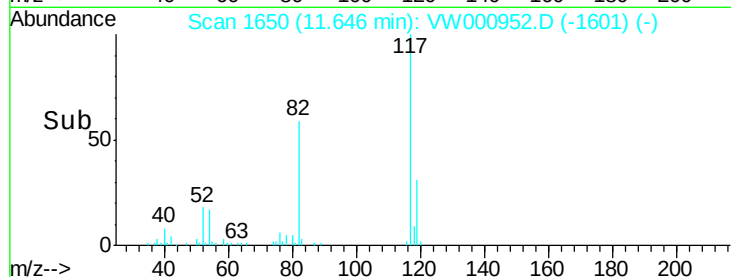
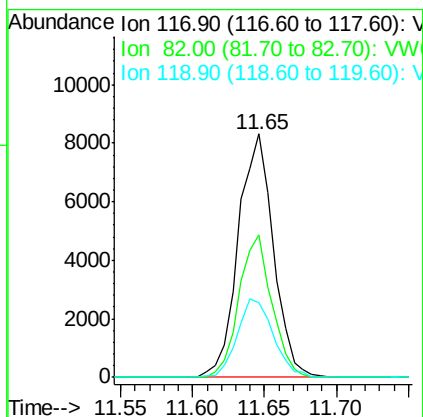
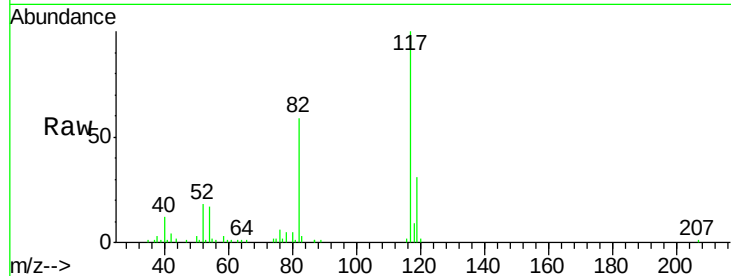




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.65 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VW000952.D
Acq: 24 Jan 2018 17:25

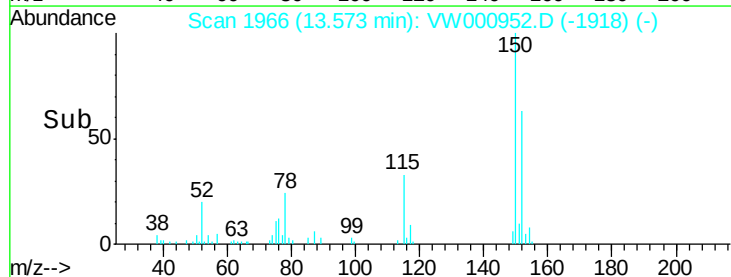
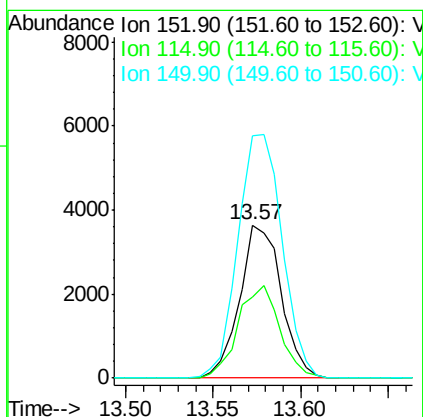
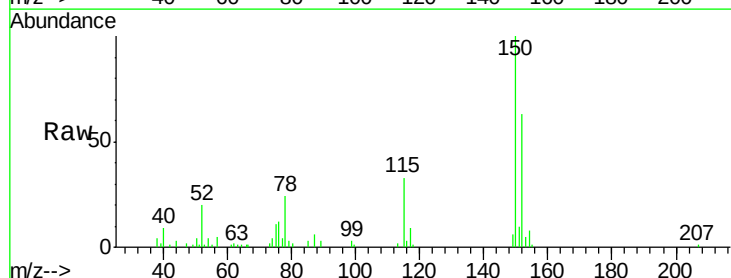
Instrument :
MSVOA_W
ClientSampleId :
CL-01-012218-BRE

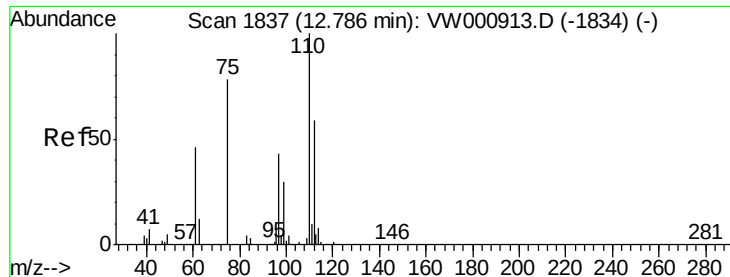
Tot Ion:117 Resp: 14040
Ion Ratio Lower Upper
117 100
82 58.6 41.8 62.6
119 30.6 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1966
Delta R.T. -0.01 min
Lab File: VW000952.D
Acq: 24 Jan 2018 17:25

Tgt Ion:152 Resp: 6020
Ion Ratio Lower Upper
152 100
115 60.3 28.5 85.5
150 169.5 0.0 342.0

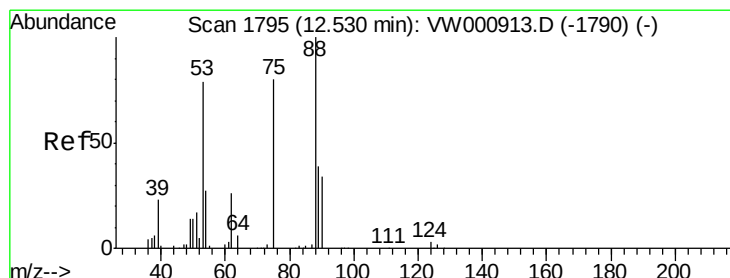
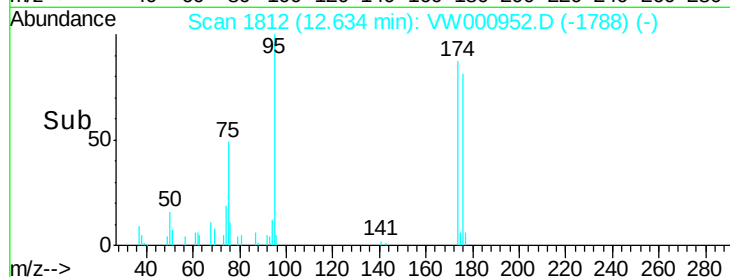
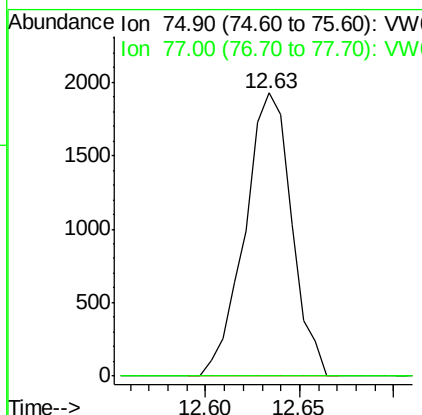
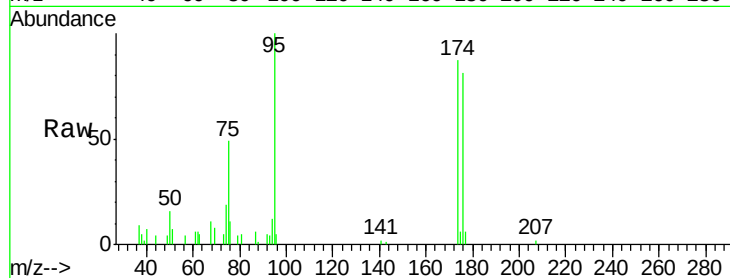




#76
 1,2,3-Trichloropropane
 Concen: 47.66 ug/l
 RT: 12.63 min Scan# 1812
 Delta R.T. -0.15 min
 Lab File: VW000952.D
 Acq: 24 Jan 2018 17:25

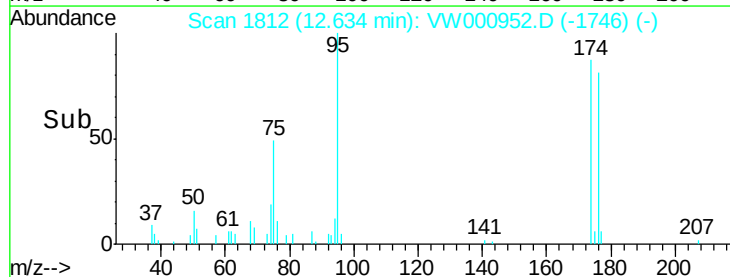
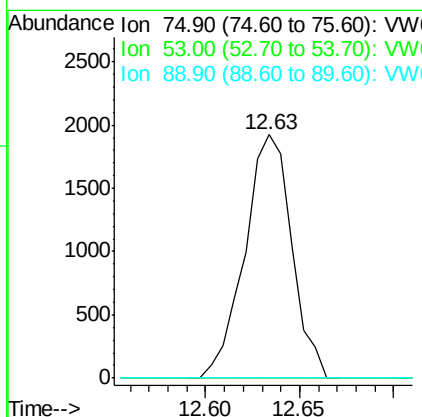
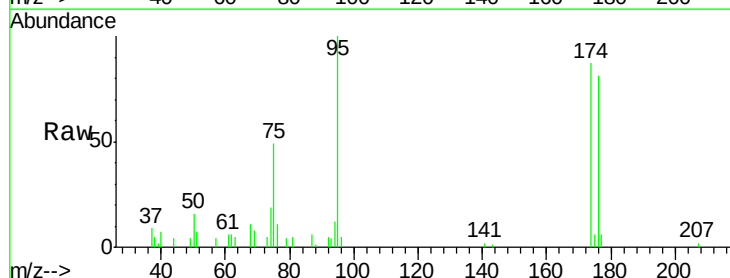
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-012218-BRE

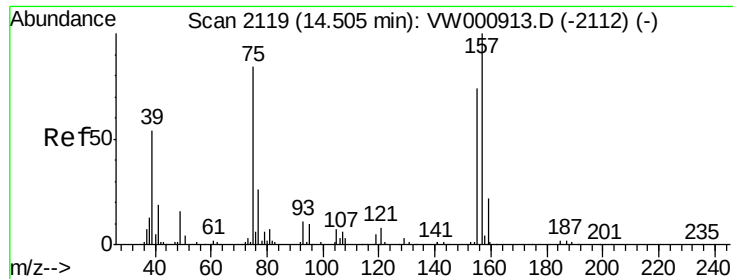
Tot Ion: 75 Resp: 3320
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 113.26 ug/l
 RT: 12.63 min Scan# 1812
 Delta R.T. 0.10 min
 Lab File: VW000952.D
 Acq: 24 Jan 2018 17:25

Tgt Ion: 75 Resp: 3320
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.5 116.3#
 89 0.0 38.2 57.4#

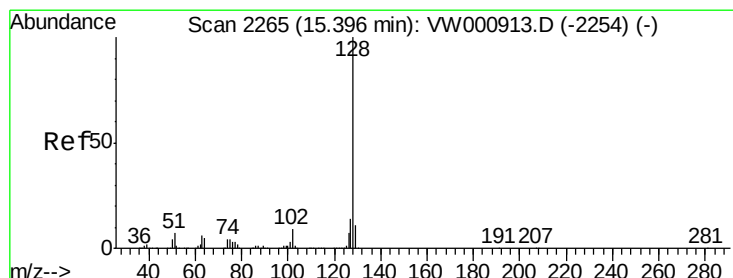
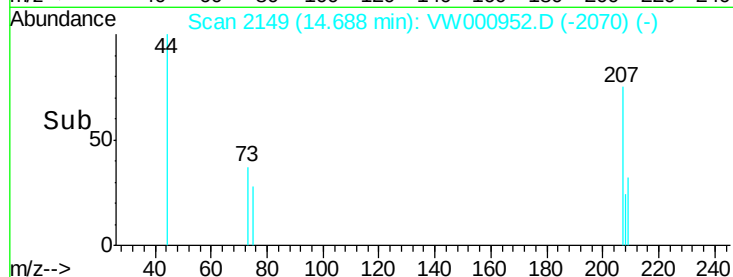
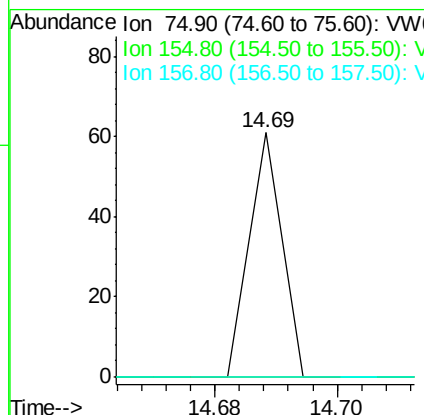
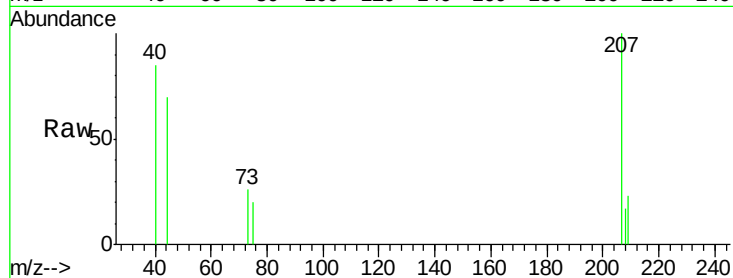




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.20 ug/l
 RT: 14.69 min Scan# 2149
 Delta R.T. 0.18 min
 Lab File: VW000952.D
 Acq: 24 Jan 2018 17:25

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-012218-BRE

Tot Ion: 75 Resp: 22
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.9 137.6#
 157 0.0 59.8 179.3#



#95
 Naphthalene
 Concen: 1.20 ug/l
 RT: 15.40 min Scan# 2266
 Delta R.T. 0.01 min
 Lab File: VW000952.D
 Acq: 24 Jan 2018 17:25

Tgt Ion: 128 Resp: 333
 Ion Ratio Lower Upper
 128 100
 127 6.6 10.6 15.8#
 129 0.0 8.7 13.1#

