

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX063018\
 Data File : VX003081.D
 Acq On : 30 Jun 2018 16:16
 Operator : JC/MD
 Sample : J3675-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0020

Quant Time: Jul 02 02:42:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	267154	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	375283	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348526	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193870	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	178375	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
35) Dibromofluoromethane	5.51	113	146200	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
50) Toluene-d8	8.72	98	525950	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
62) 4-Bromofluorobenzene	11.14	95	183900	43.94	ug/l	0.00
Spiked Amount			Recovery	=	87.88%	

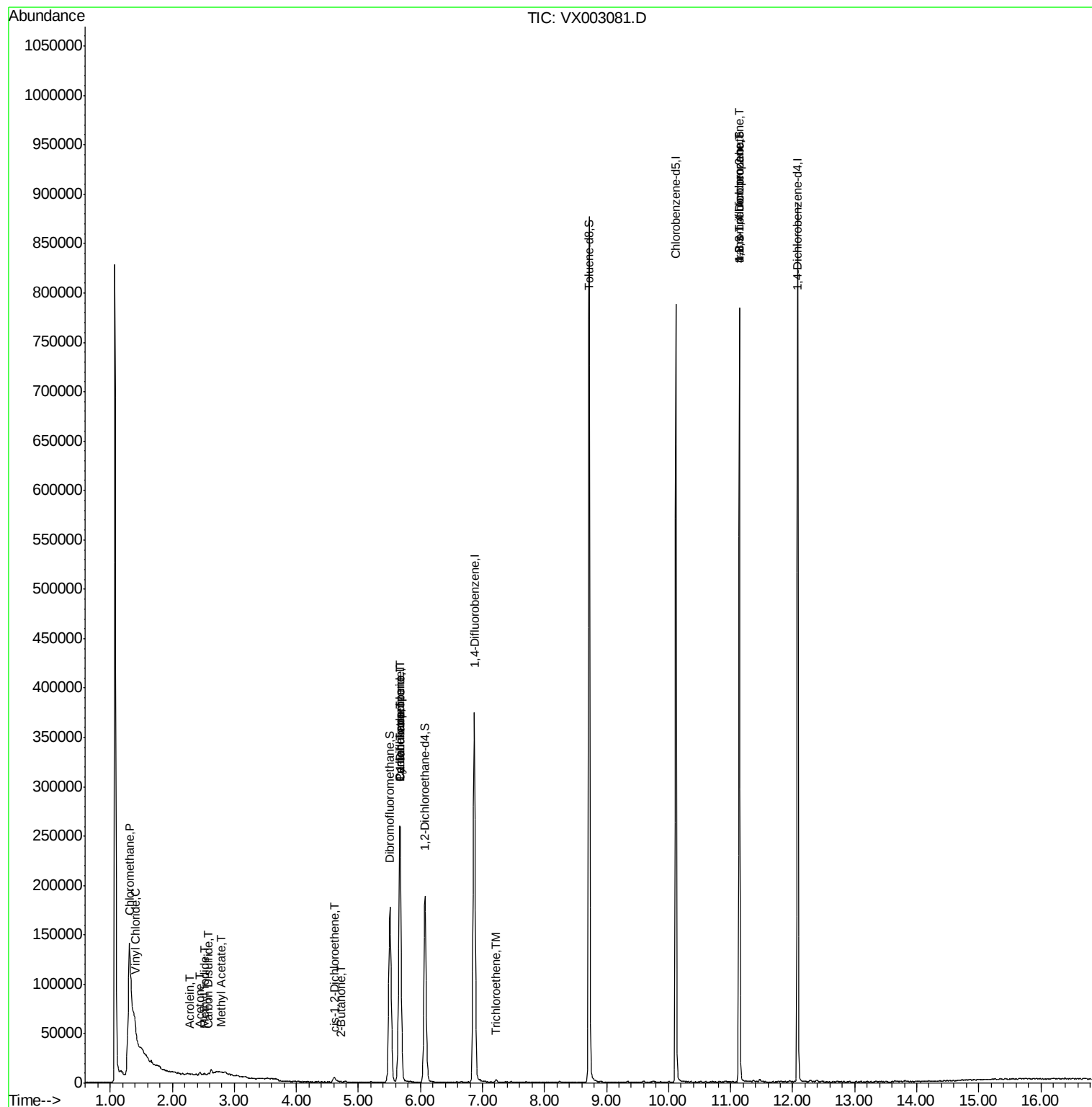
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	177	Below Cal		83
3) Chloromethane	1.32	50	8590	2.33 ug/l	#	60
4) Vinyl Chloride	1.40	62	1185	0.39 ug/l	#	1
5) Bromomethane	1.66	94	1735	Below Cal		93
10) Methyl Iodide	2.52	142	1470	6.66 ug/l		97
13) Acrolein	2.29	56	188	4.68 ug/l	#	59
16) Acetone	2.45	43	2606	1.70 ug/l		96
17) Carbon Disulfide	2.57	76	2520	0.36 ug/l		95
18) Methyl Acetate	2.79	43	955	0.22 ug/l	#	55
25) 2-Butanone	4.71	43	553	0.24 ug/l	#	84
27) cis-1,2-Dichloroethene	4.61	96	2010	0.62 ug/l	#	1
31) Cyclohexane	5.67	56	4642	1.00 ug/l	#	1
36) 1,1-Dichloropropene	5.67	75	17589	4.27 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	24635	5.45 ug/l	#	16
44) Trichloroethene	7.21	130	1056	0.30 ug/l		89
76) 1,2,3-Trichloropropane	11.14	75	94621	26.94 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	94621	76.28 ug/l	#	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

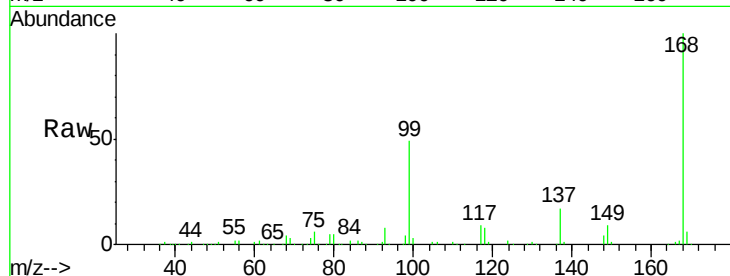
S73-0020

Tot Ion:168 Resp: 267154

Ion Ratio Lower Upper

168 100

99 49.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

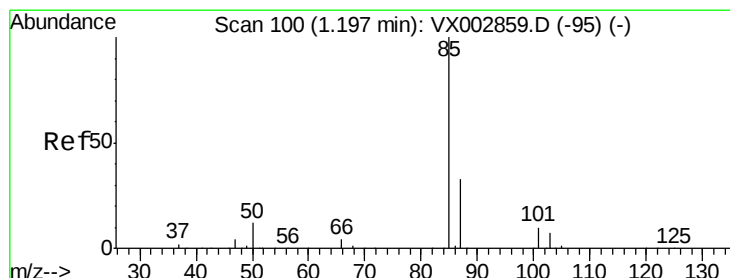
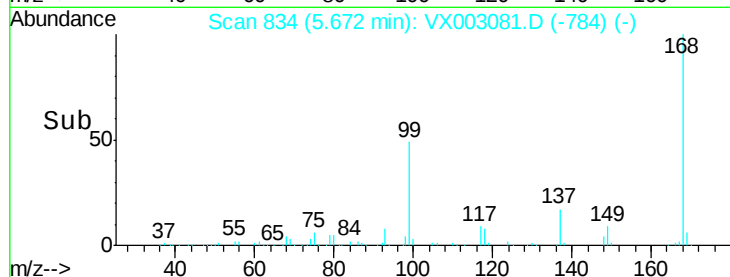
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003081.D

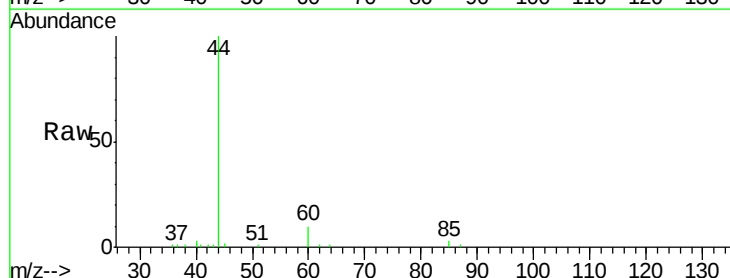
Acq: 30 Jun 2018 16:16

Tgt Ion: 85 Resp: 177

Ion Ratio Lower Upper

85 100

87 41.5 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

250

200

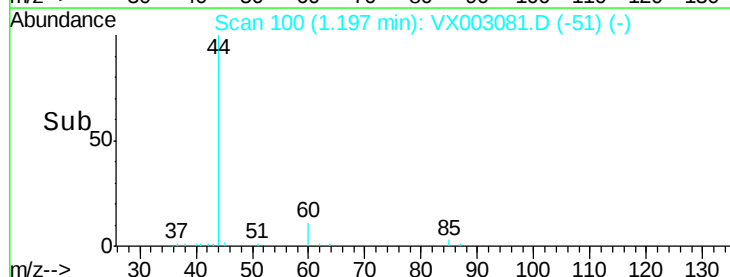
150

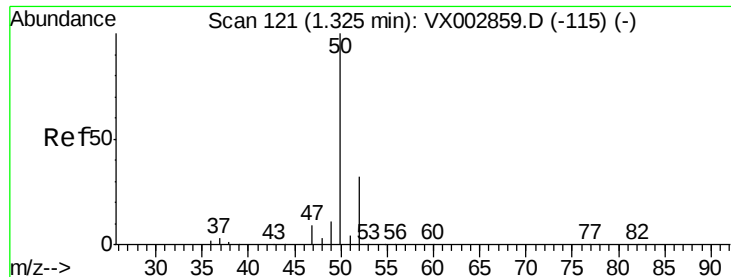
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 2.33 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

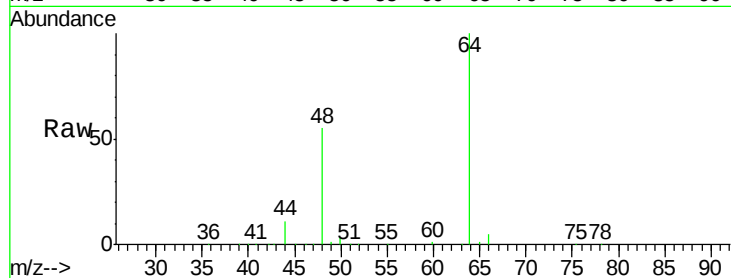
S73-0020

Tot Ion: 50 Resp: 8590

Ion Ratio Lower Upper

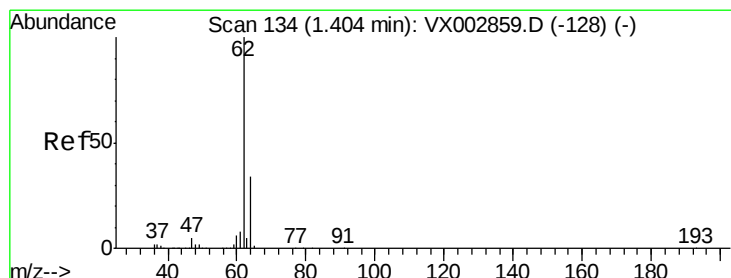
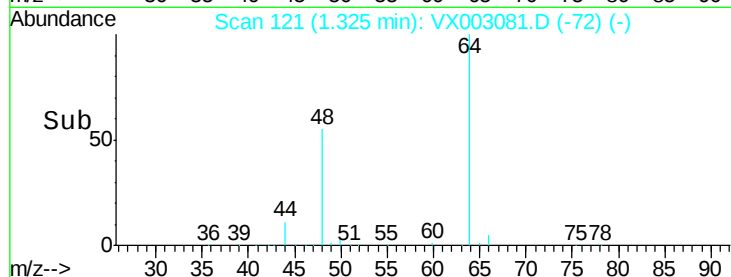
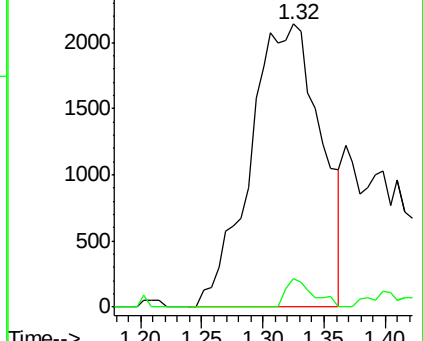
50 100

52 9.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.39 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003081.D

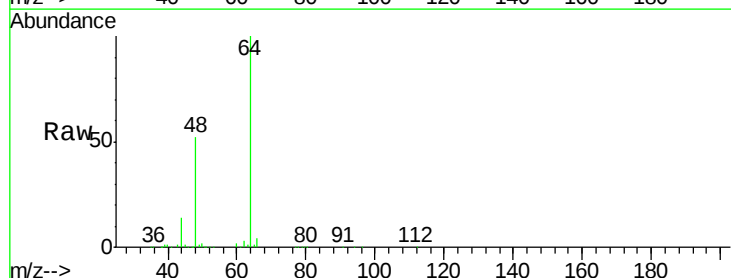
Acq: 30 Jun 2018 16:16

Tgt Ion: 62 Resp: 1185

Ion Ratio Lower Upper

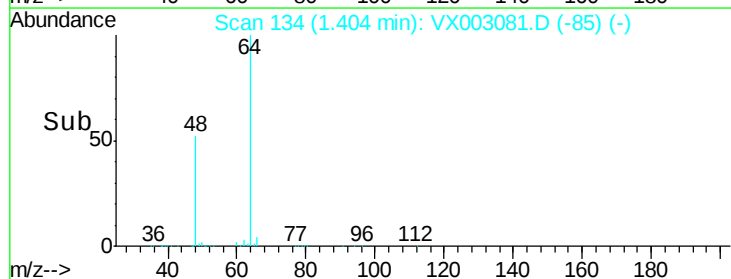
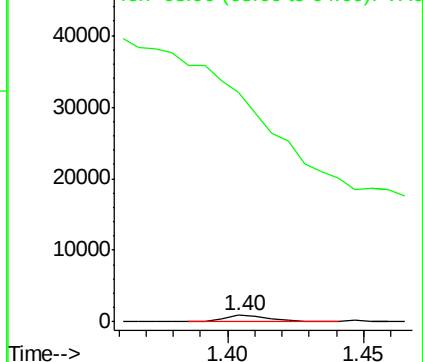
62 100

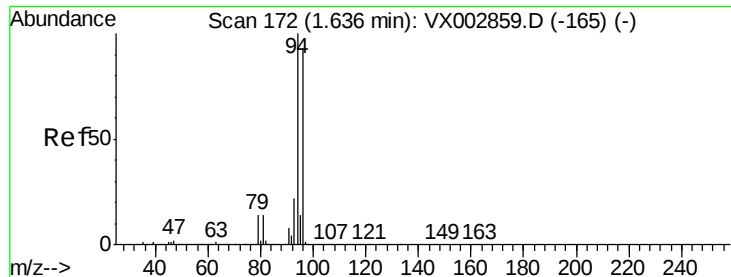
64 1347.8 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

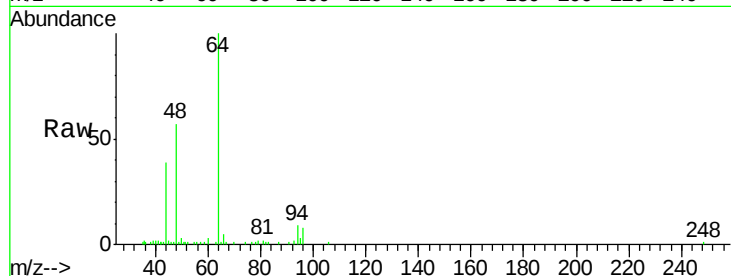
S73-0020

Tot Ion: 94 Resp: 1735

Ion Ratio Lower Upper

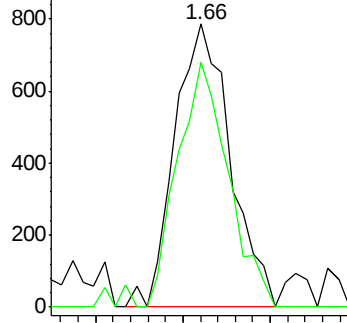
94 100

96 86.6 74.9 112.3

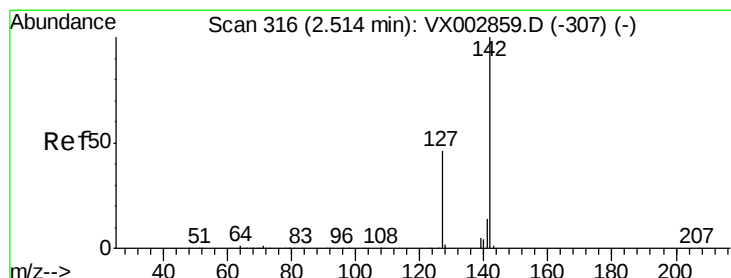
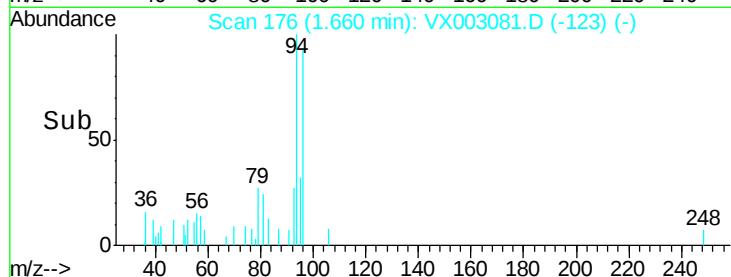


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 6.66 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

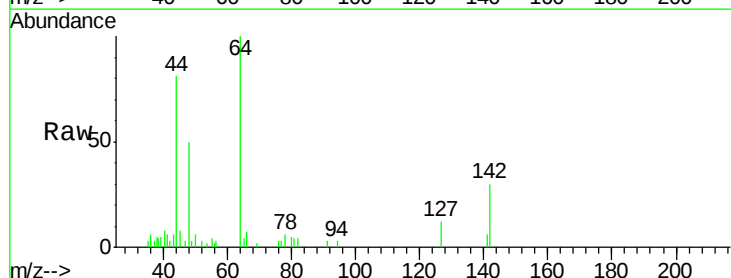
Tgt Ion:142 Resp: 1470

Ion Ratio Lower Upper

142 100

127 47.6 36.6 55.0

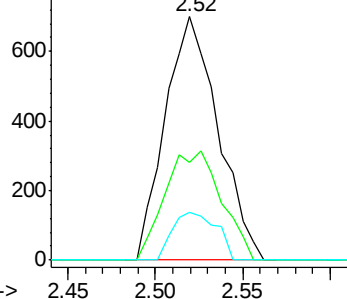
141 16.3 11.3 16.9



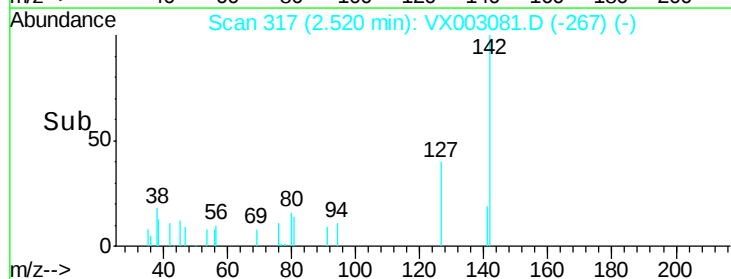
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#13

Acrolein

Concen: 4.68 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

Instrument :

MSVOA_X

ClientSampled :

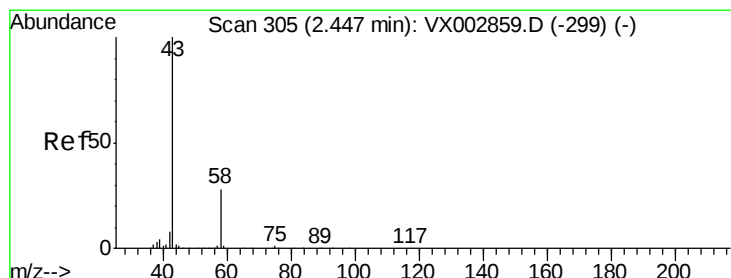
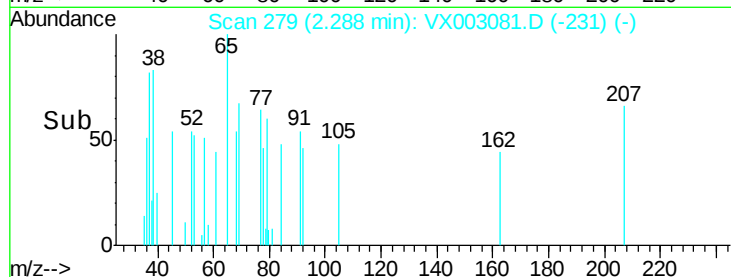
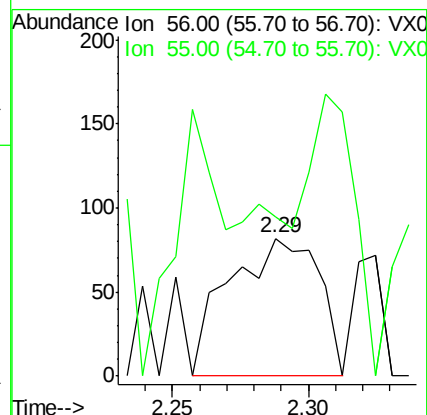
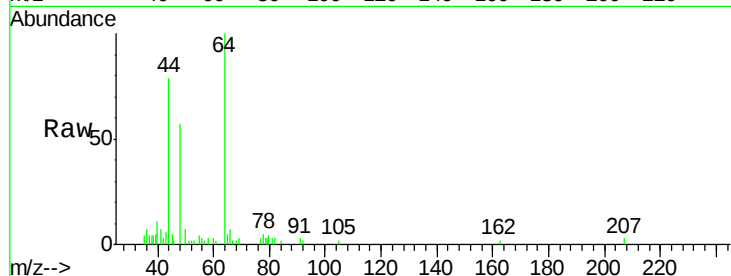
S73-0020

Tot Ion: 56 Resp: 188

Ion Ratio Lower Upper

56 100

55 104.8 57.0 85.4#



#16

Acetone

Concen: 1.70 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003081.D

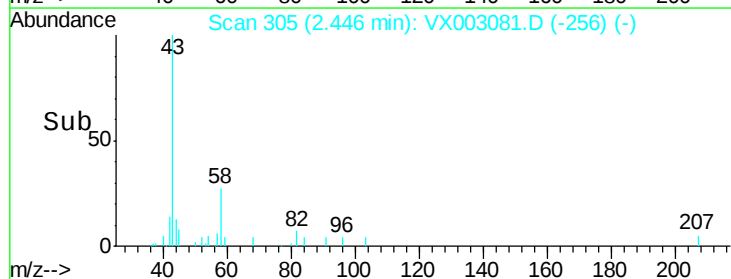
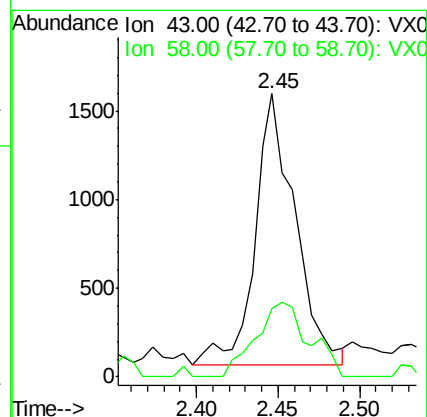
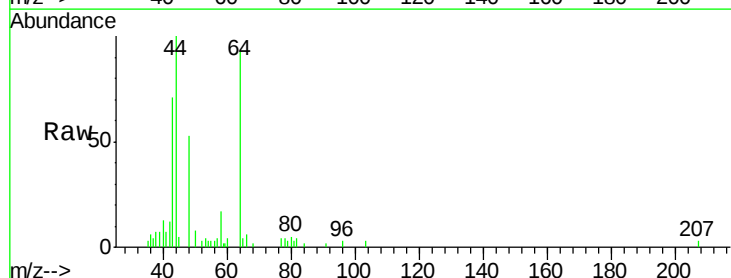
Acq: 30 Jun 2018 16:16

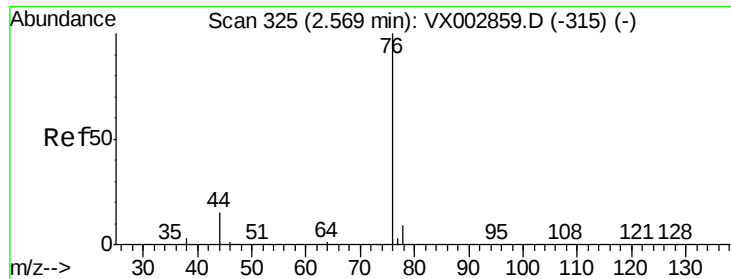
Tgt Ion: 43 Resp: 2606

Ion Ratio Lower Upper

43 100

58 25.3 22.1 33.1

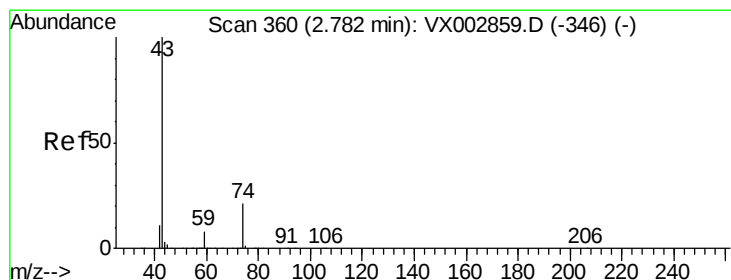
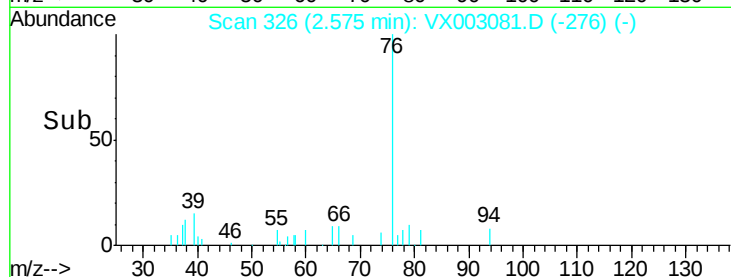
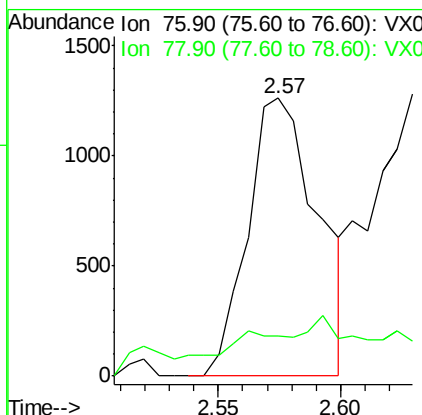
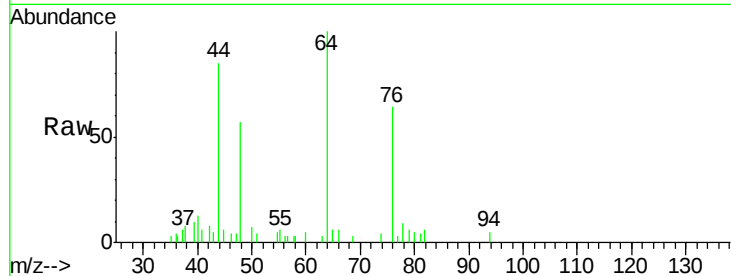




#17
Carbon Disulfide
Concen: 0.36 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX003081.D
Acq: 30 Jun 2018 16:16

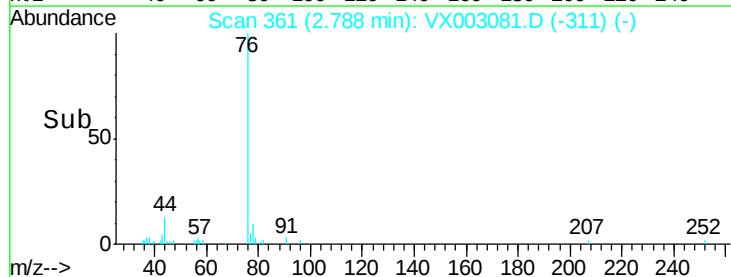
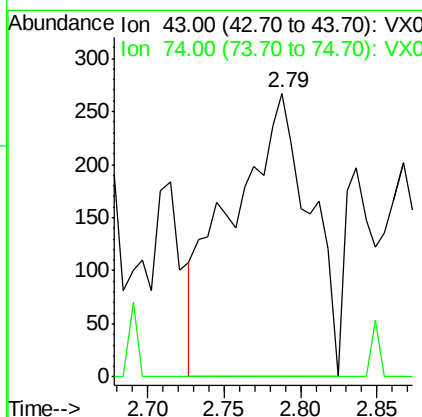
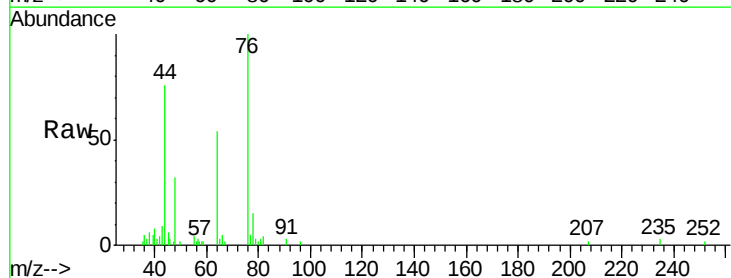
Instrument :
MSVOA_X
ClientSampled :
S73-0020

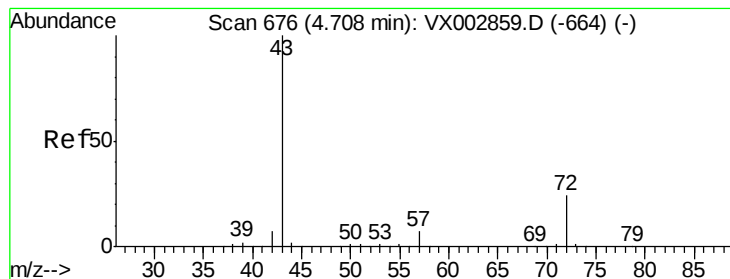
Tot Ion: 76 Resp: 2520
Ion Ratio Lower Upper
76 100
78 7.0 6.9 10.3



#18
Methyl Acetate
Concen: 0.22 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX003081.D
Acq: 30 Jun 2018 16:16

Tgt Ion: 43 Resp: 955
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#





#25

2-Butanone

Concen: 0.24 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.00 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

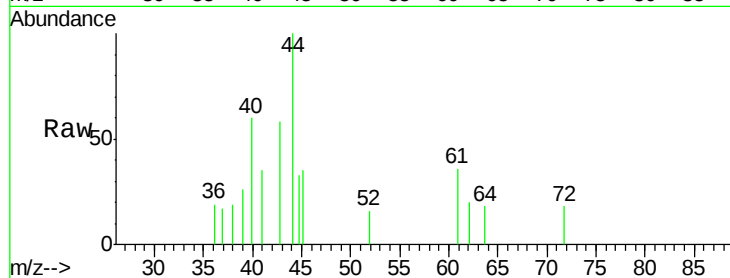
S73-0020

Tot Ion: 43 Resp: 553

Ion Ratio Lower Upper

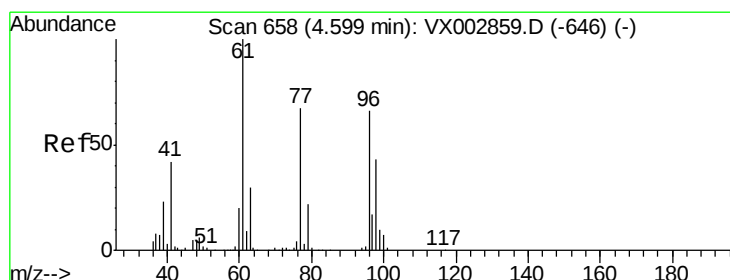
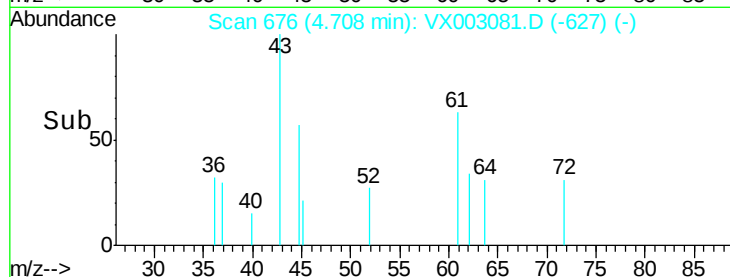
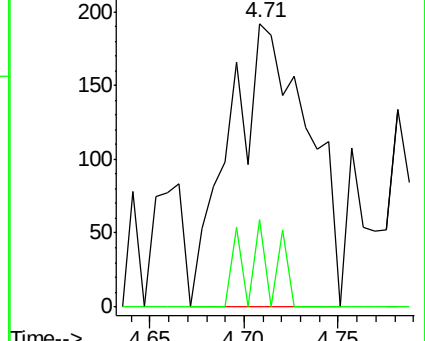
43 100

72 30.7 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.62 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

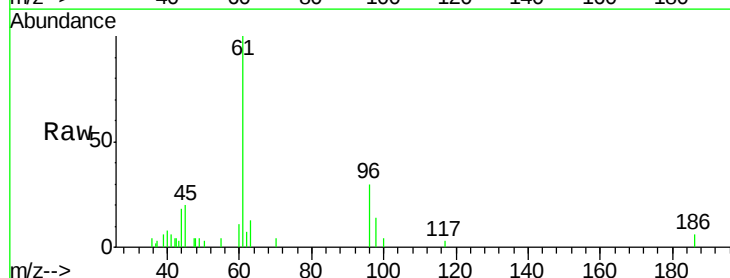
Tgt Ion: 96 Resp: 2010

Ion Ratio Lower Upper

96 100

61 412.9 0.0 330.2#

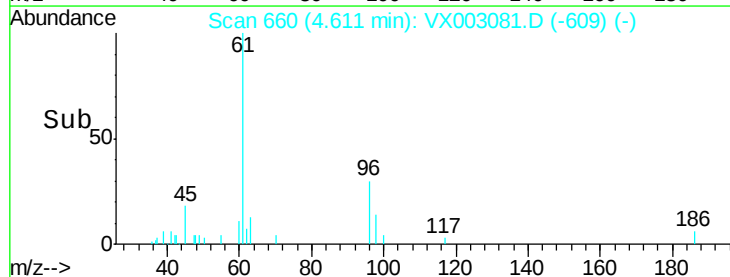
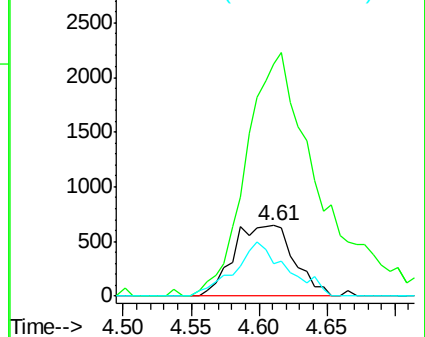
98 65.6 0.0 130.2

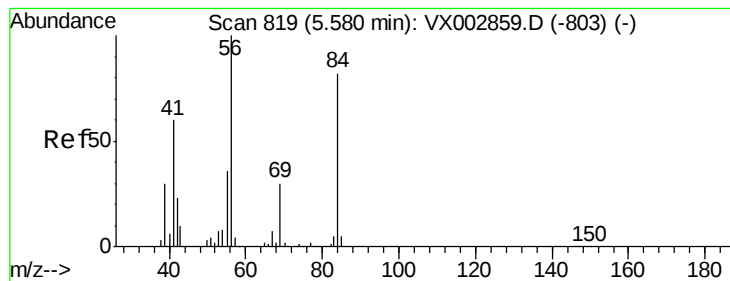


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

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ClientSampled :

S73-0020

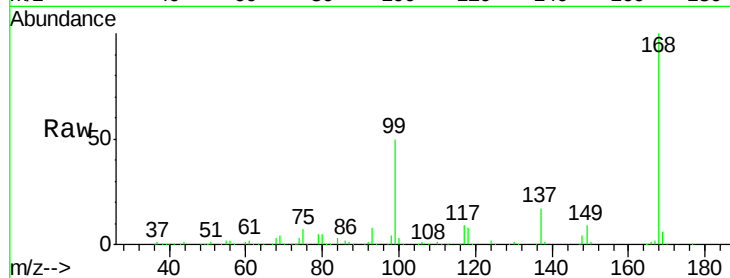
Tot Ion: 56 Resp: 4642

Ion Ratio Lower Upper

56 100

69 205.0 23.7 35.5#

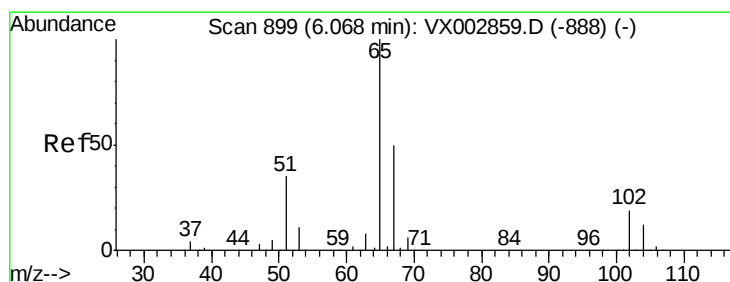
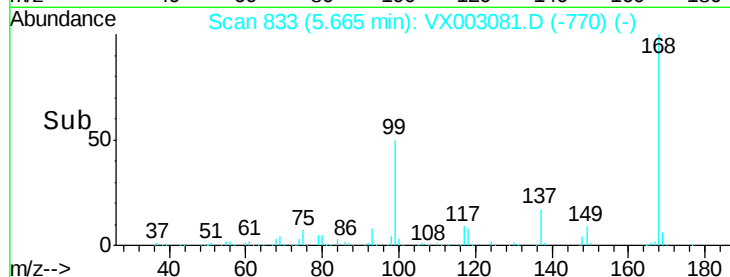
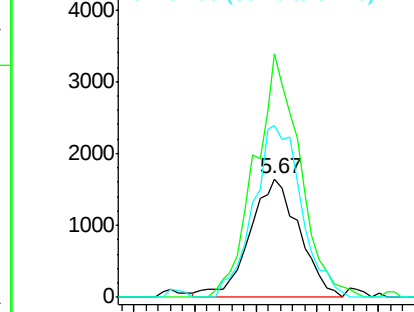
84 144.2 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.31 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003081.D

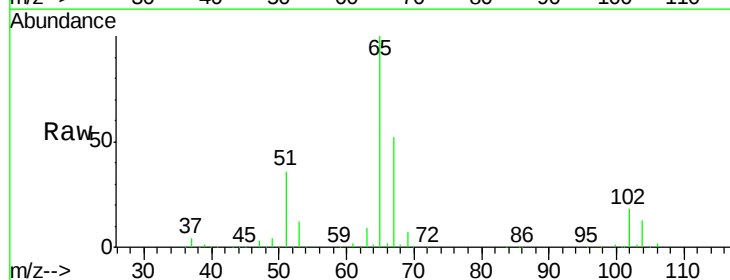
Acq: 30 Jun 2018 16:16

Tgt Ion: 65 Resp: 178375

Ion Ratio Lower Upper

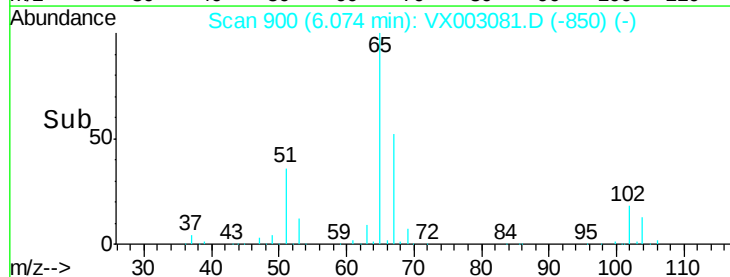
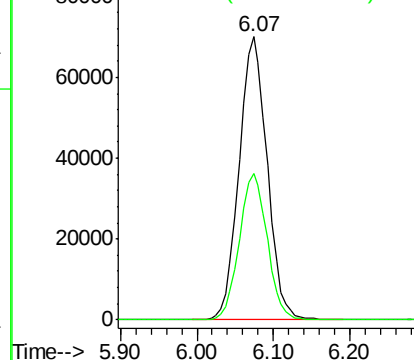
65 100

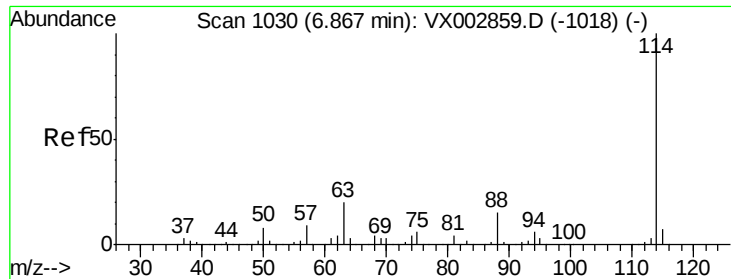
67 51.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

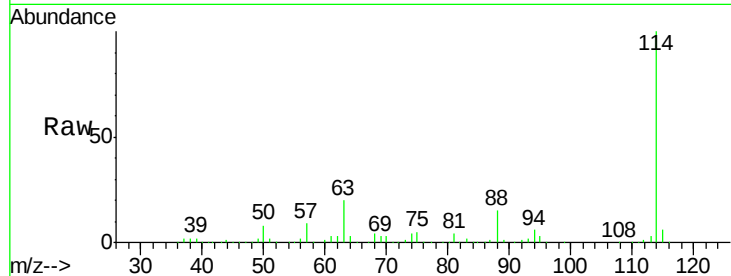




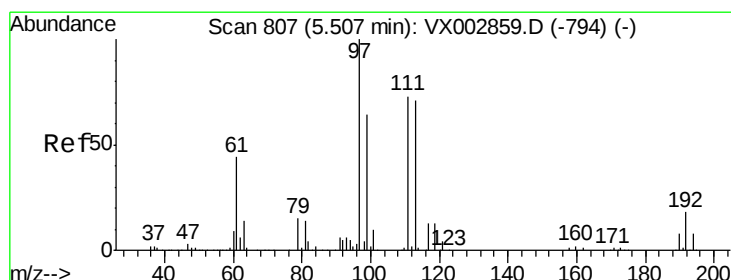
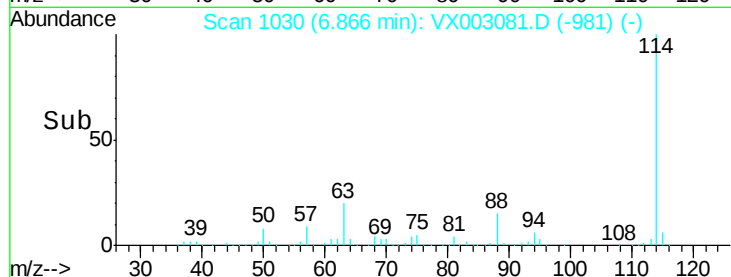
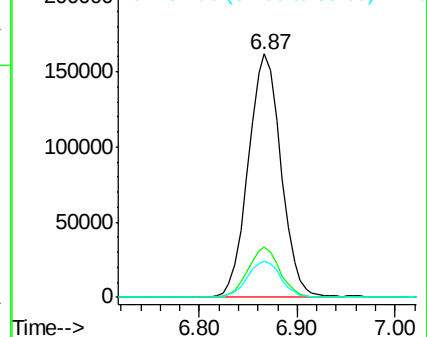
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003081.D
 Acq: 30 Jun 2018 16:16

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0020

Tot Ion:114 Resp: 375283
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 14.9 0.0 30.0

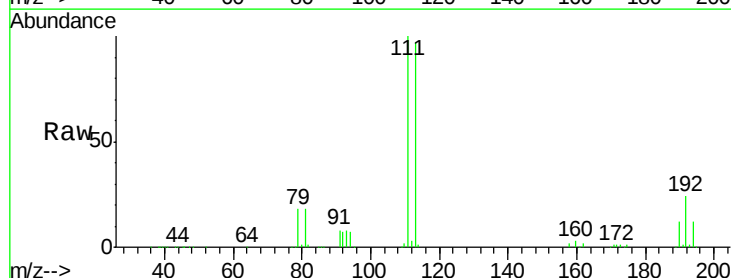


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

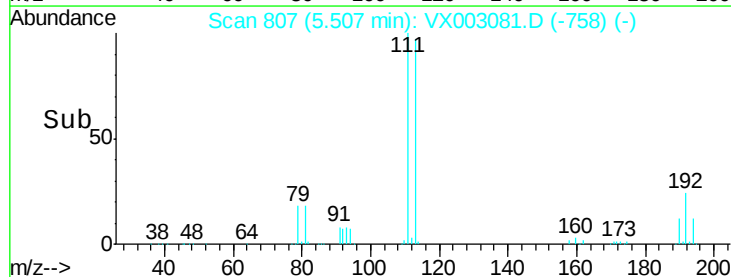
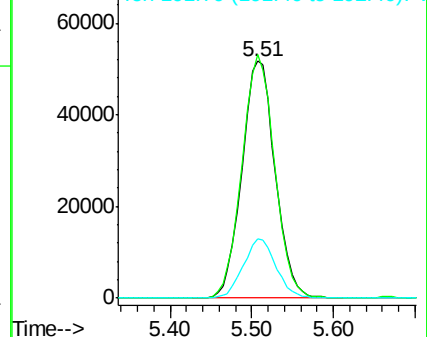


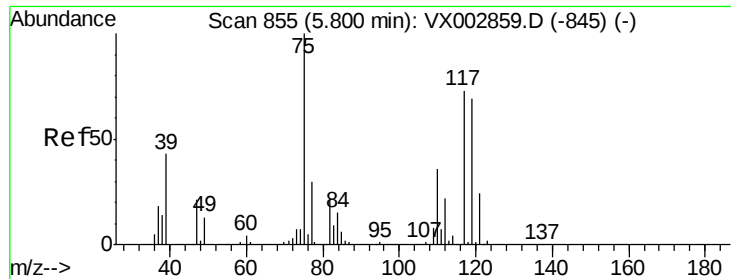
#35
 Dibromofluoromethane
 Concen: 49.19 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003081.D
 Acq: 30 Jun 2018 16:16

Tgt Ion:113 Resp: 146200
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.4 122.0
 192 24.6 19.1 28.7



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

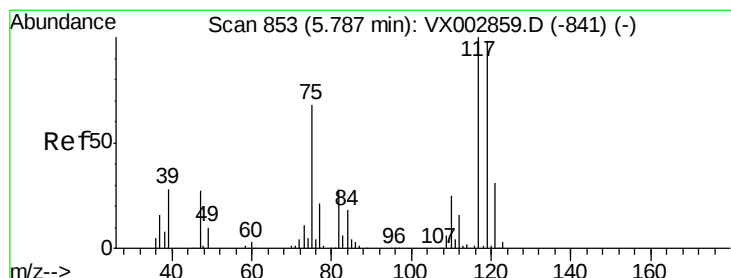
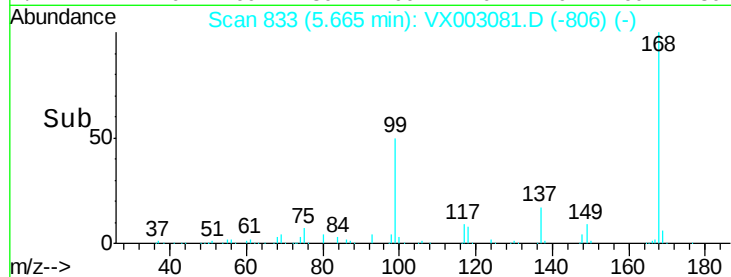
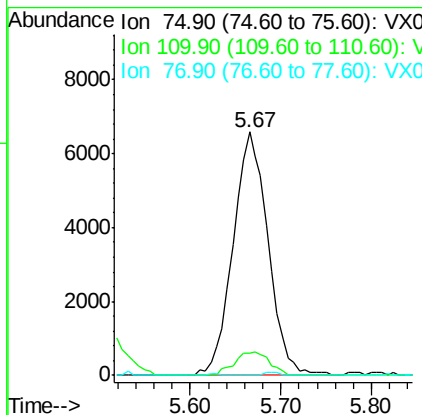
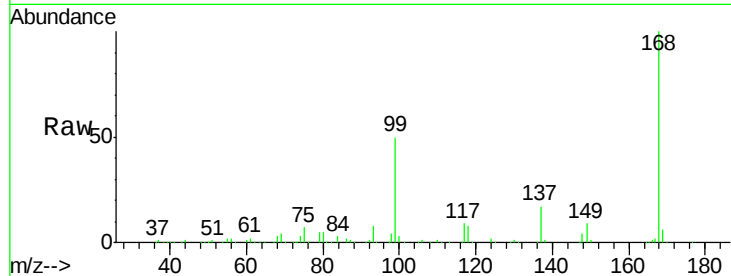




#36
 1,1-Dichloropropene
 Concen: 4.27 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003081.D
 Acq: 30 Jun 2018 16:16

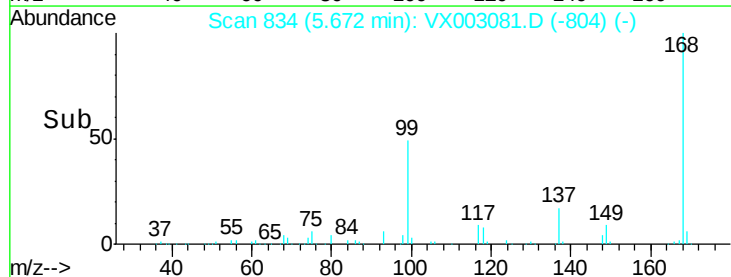
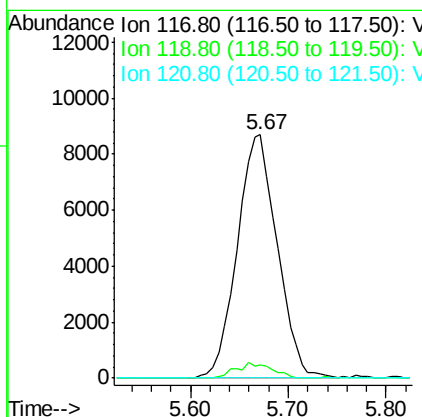
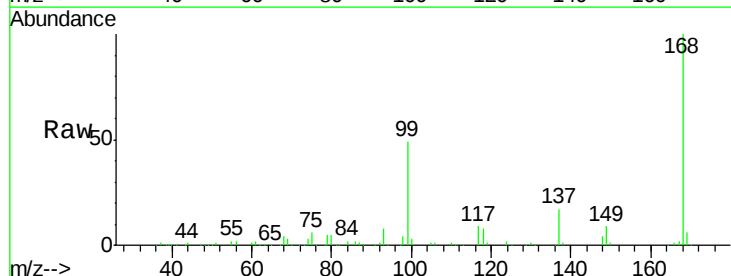
Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0020

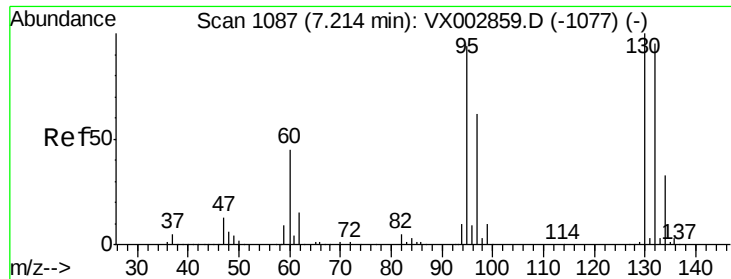
Tot Ion: 75 Resp: 17589
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.1 54.4#
 77 0.4 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.45 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX003081.D
 Acq: 30 Jun 2018 16:16

Tgt Ion: 117 Resp: 24635
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.4 116.0#
 121 0.0 24.4 36.6#

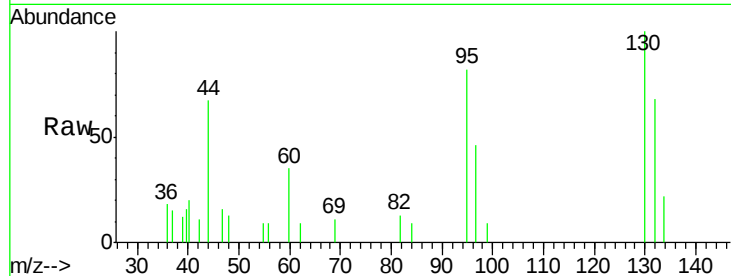




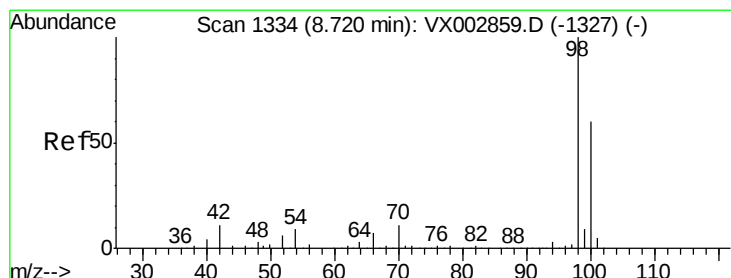
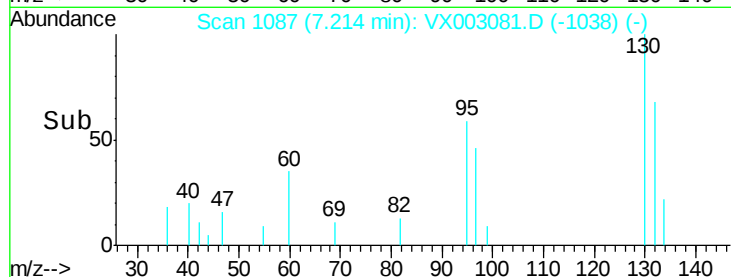
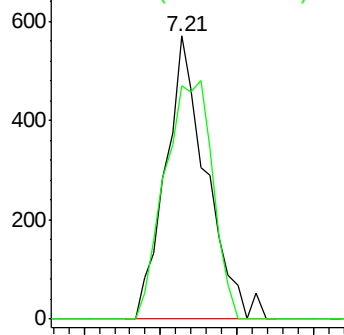
#44
 Trichloroethene
 Concen: 0.30 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. -0.00 min
 Lab File: VX003081.D
 Acq: 30 Jun 2018 16:16

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0020

Tot Ion:130 Resp: 1056
 Ion Ratio Lower Upper
 130 100
 95 82.5 0.0 185.4

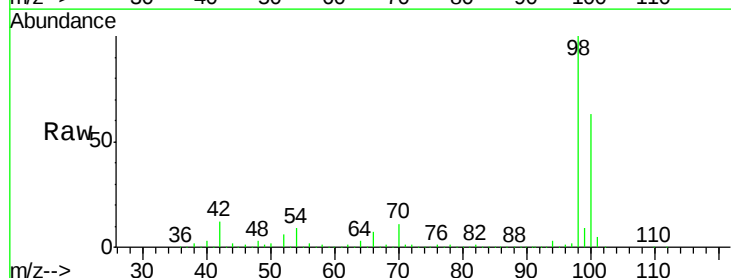


Abundance Ion 129.80 (129.50 to 130.50): V

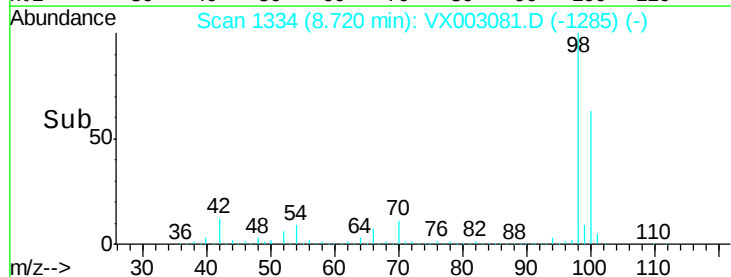
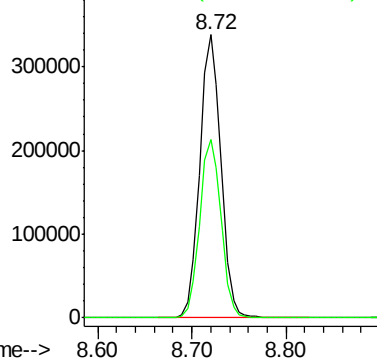


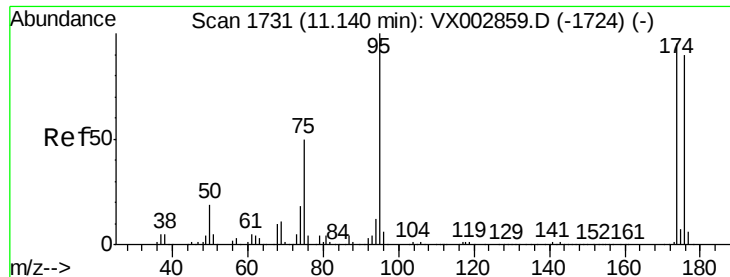
#50
 Toluene-d8
 Concen: 48.46 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX003081.D
 Acq: 30 Jun 2018 16:16

Tgt Ion: 98 Resp: 525950
 Ion Ratio Lower Upper
 98 100
 100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

S73-0020

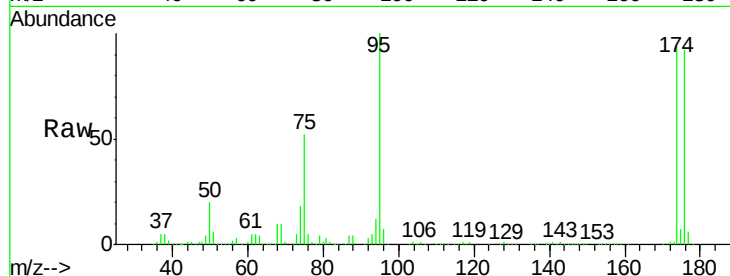
Tot Ion: 95 Resp: 183900

Ion Ratio Lower Upper

95 100

174 97.9 0.0 187.4

176 94.7 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)

11.14

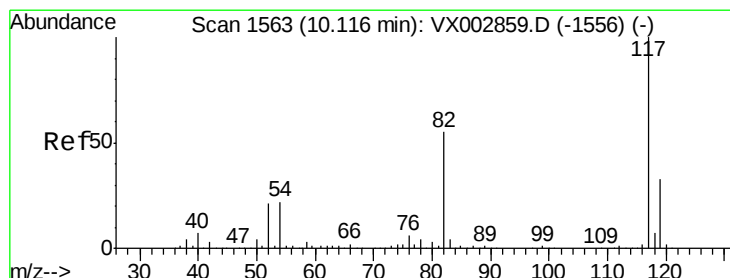
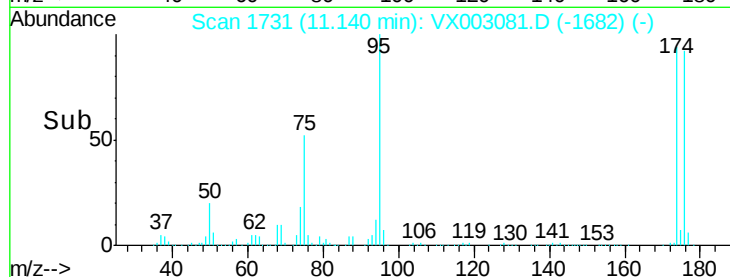
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

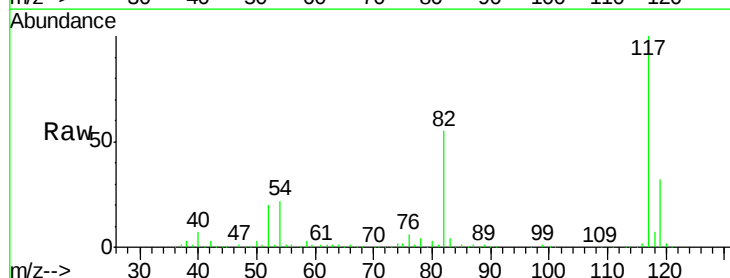
Tgt Ion: 117 Resp: 348526

Ion Ratio Lower Upper

117 100

82 54.5 45.0 67.4

119 32.5 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

10.12

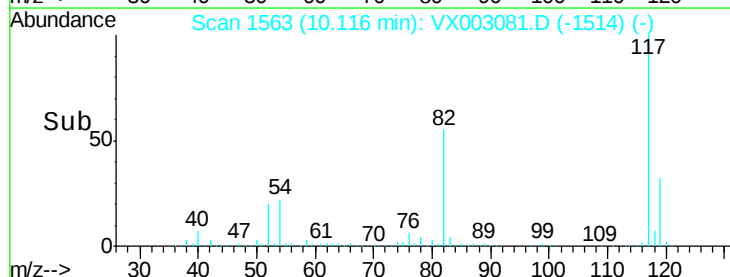
300000

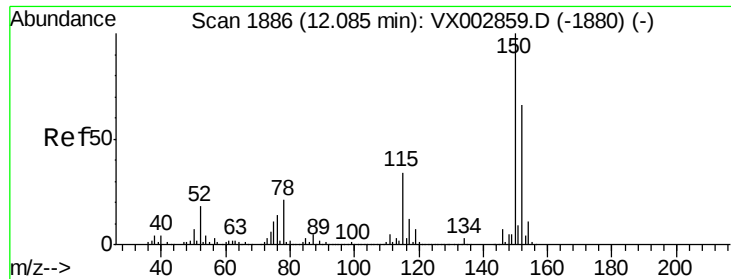
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

S73-0020

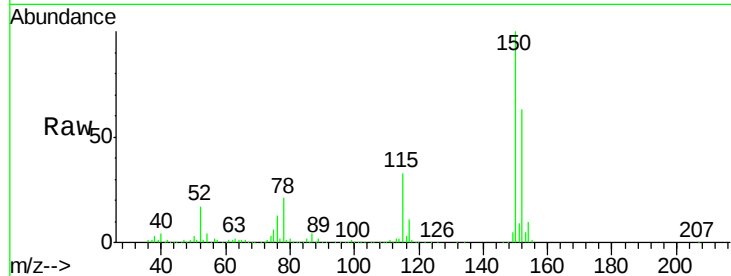
Tot Ion:152 Resp: 193870

Ion Ratio Lower Upper

152 100

115 54.6 40.1 120.2

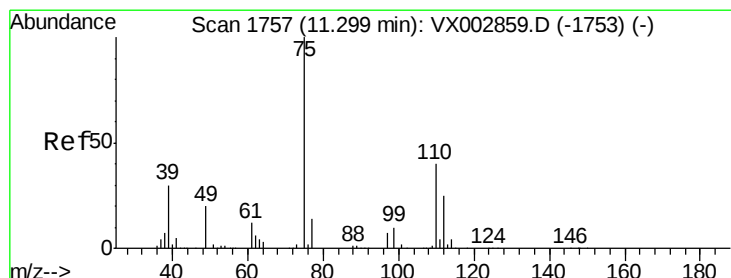
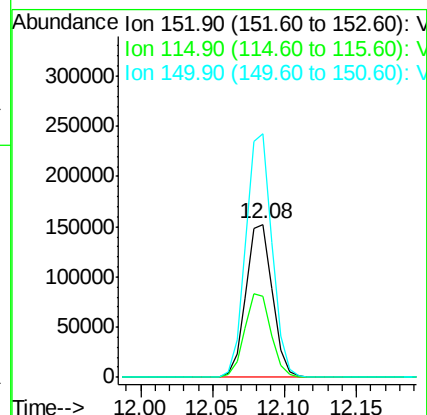
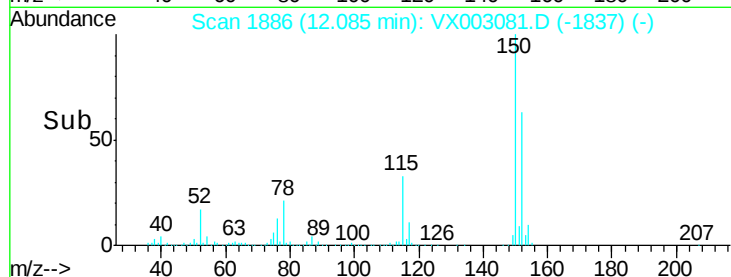
150 158.0 0.0 347.2



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: 26.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003081.D

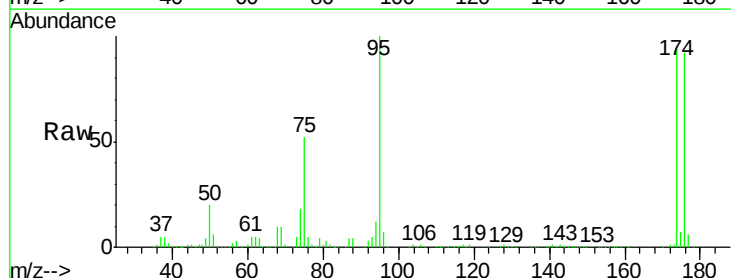
Acq: 30 Jun 2018 16:16

Tgt Ion: 75 Resp: 94621

Ion Ratio Lower Upper

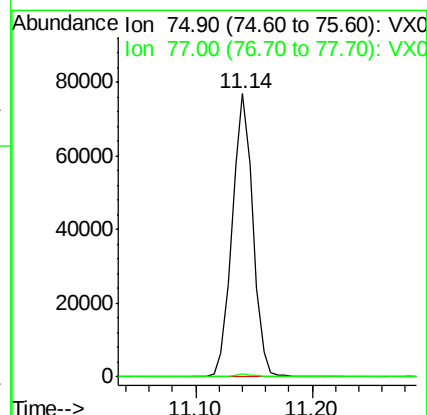
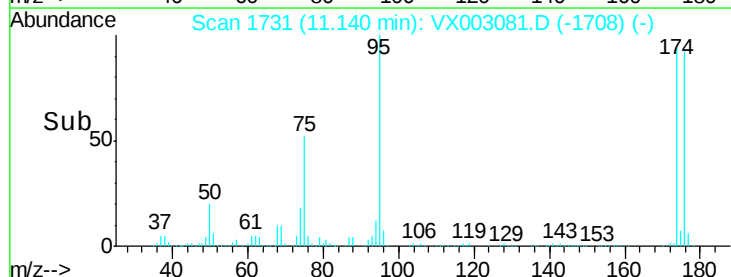
75 100

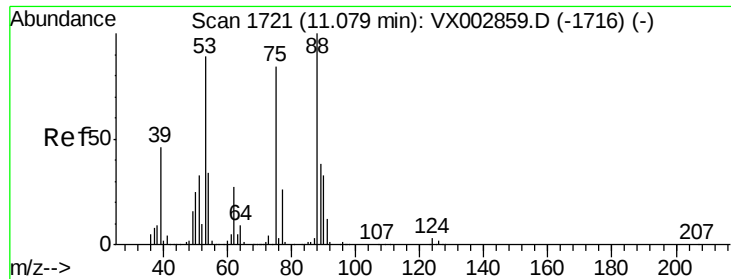
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.28 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003081.D

Acq: 30 Jun 2018 16:16

Instrument :

MSVOA_X

ClientSampleId :

S73-0020

Tot Ion: 75 Resp: 94621

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.1 38.2 57.2#

