

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005302.D
 Acq On : 12 Oct 2018 19:11
 Operator : JC/MD
 Sample : J5458-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 13 02:37:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	288546	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	375029	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	334128	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164479	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	167727	52.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.76%	
35) Dibromofluoromethane	5.50	113	132770	53.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.90%	
50) Toluene-d8	8.71	98	448862	52.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.28%	
62) 4-Bromofluorobenzene	11.14	95	145821	45.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.04%	

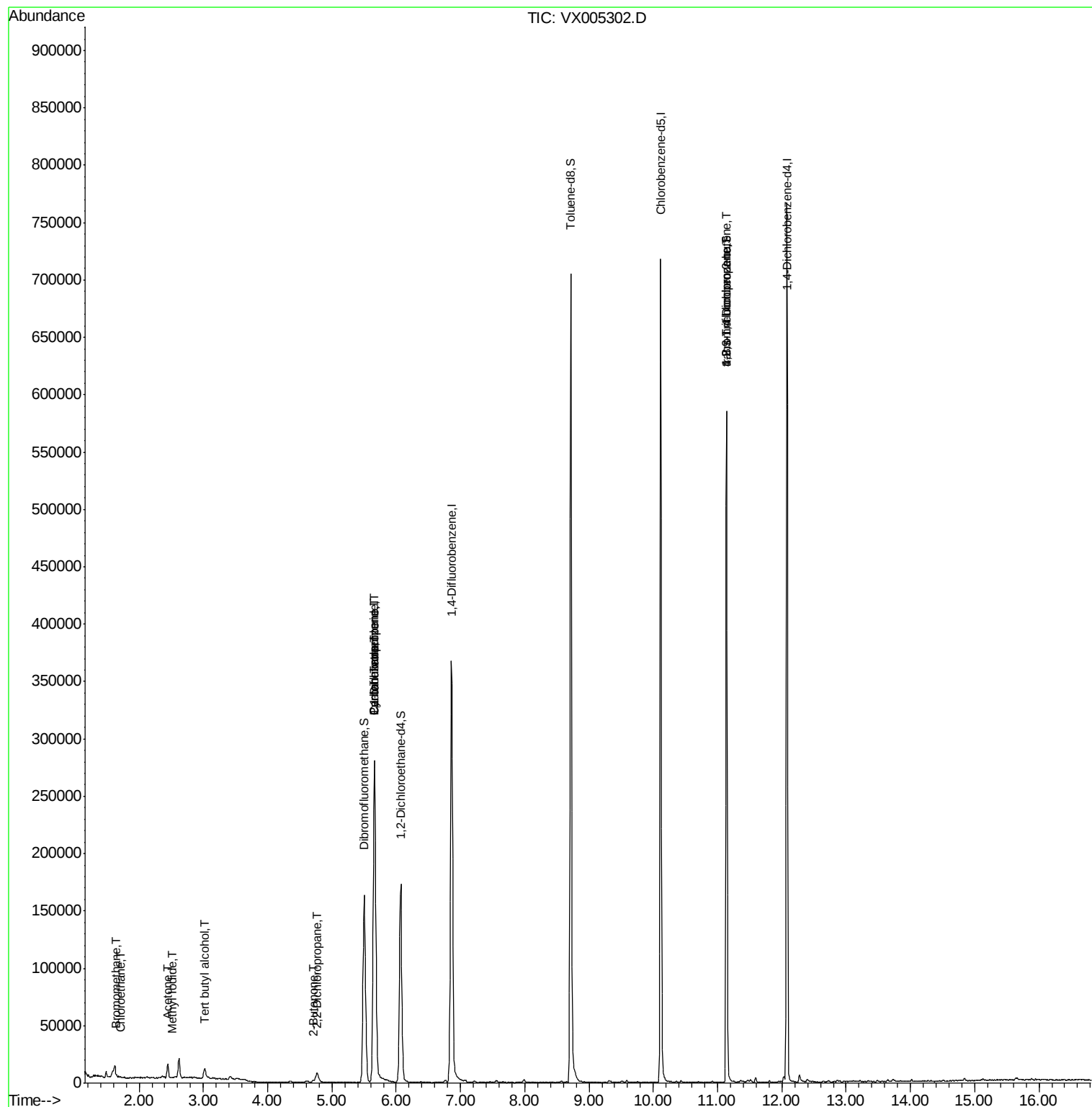
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	510	0.854	ug/l #	40
6) Chloroethane	1.71	64	56	0.361	ug/l #	44
10) Methyl Iodide	2.52	142	639	2.706	ug/l	92
11) Tert butyl alcohol	3.02	59	5146	5.697	ug/l #	81
13) Acrolein	2.28	56	86	Below Cal	#	16
16) Acetone	2.45	43	13058	7.052	ug/l	95
20) Methylene Chloride	2.85	84	265	Below Cal		98
25) 2-Butanone	4.71	43	3063	1.131	ug/l #	82
26) 2,2-Dichloropropane	4.78	77	811	0.203	ug/l #	52
31) Cyclohexane	5.67	56	5402	1.227	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19106	5.260	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24913	6.826	ug/l #	16
44) Trichloroethene	7.21	130	465	Below Cal		89
76) 1,2,3-Trichloropropane	11.14	75	72550	22.740	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	72550	69.095	ug/l #	10

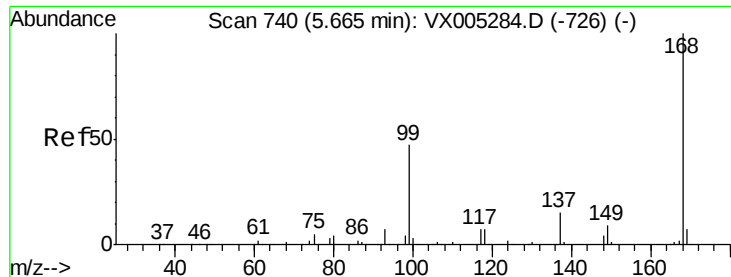
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005302.D

Acq: 12 Oct 2018 19:11

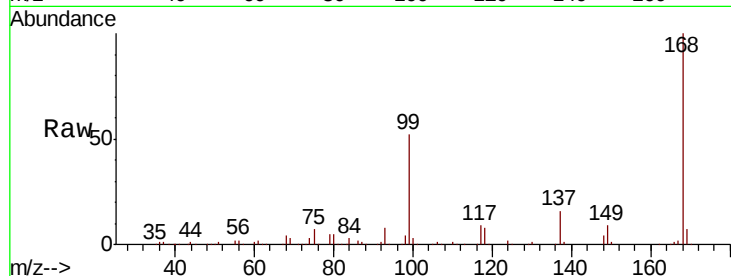
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 288546

Ion Ratio Lower Upper

168 100

99 52.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

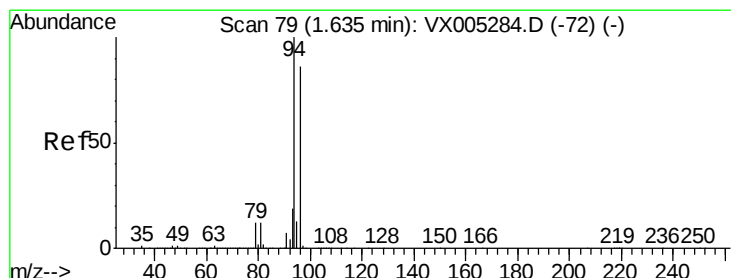
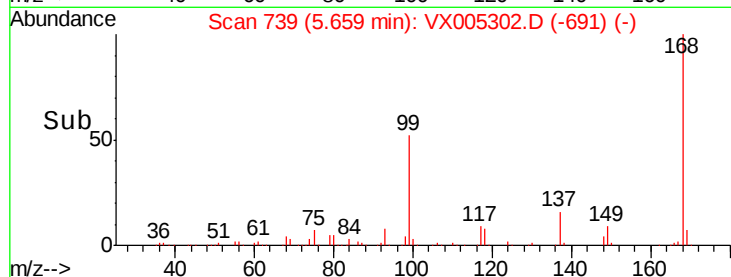
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.854 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005302.D

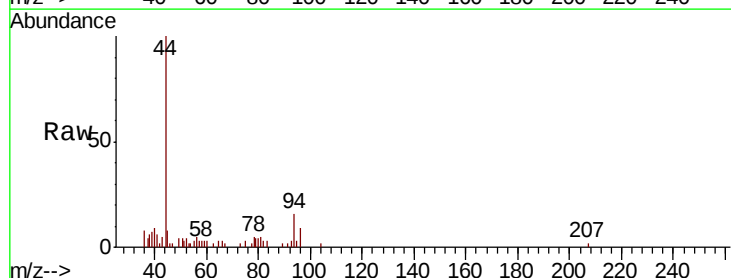
Acq: 12 Oct 2018 19:11

Tgt Ion: 94 Resp: 510

Ion Ratio Lower Upper

94 100

96 35.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

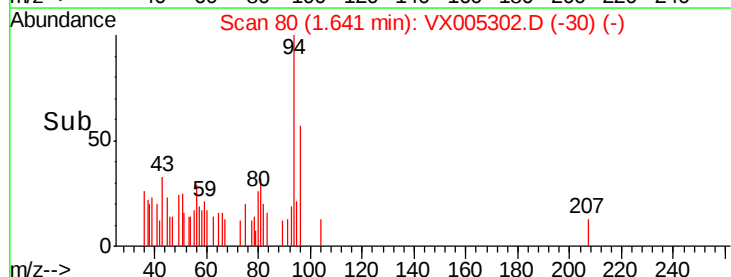
300

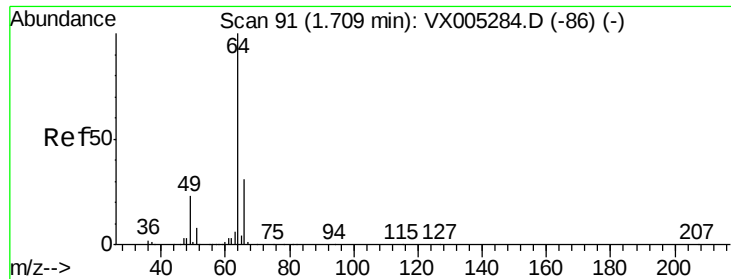
200

100

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.361 ug/l

RT: 1.71 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX005302.D

Acq: 12 Oct 2018 19:11

Instrument :

MSVOA_X

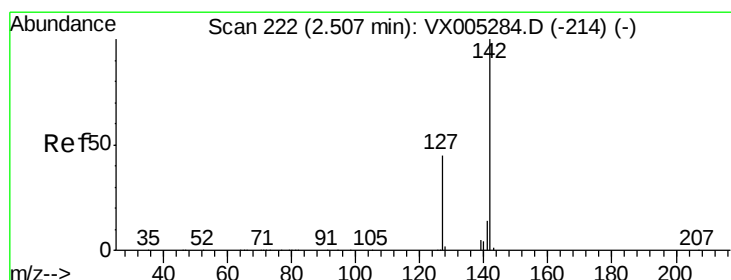
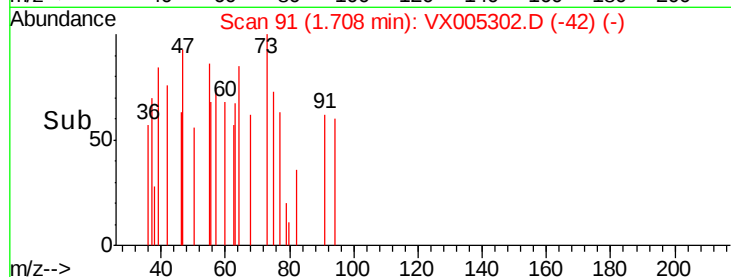
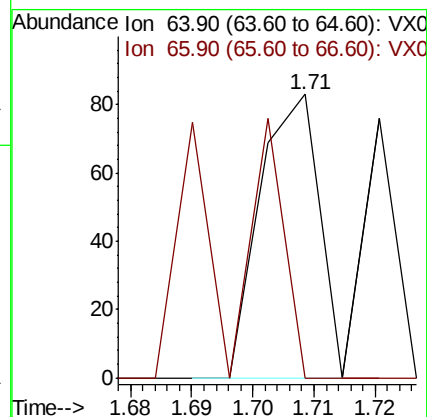
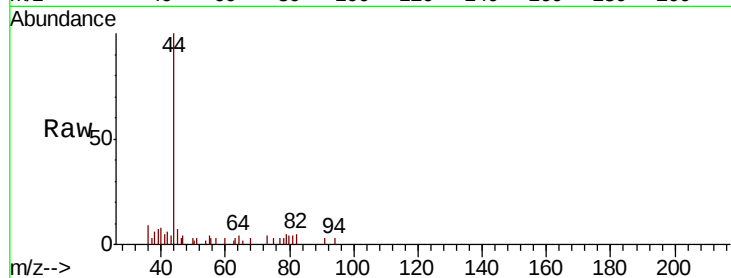
ClientSampleId :

Tot Ion: 64 Resp: 56

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



#10

Methyl Iodide

Concen: 2.706 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005302.D

Acq: 12 Oct 2018 19:11

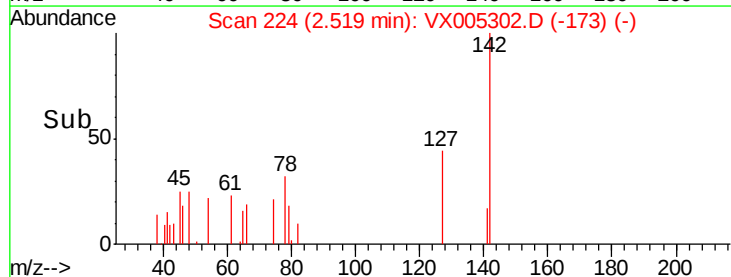
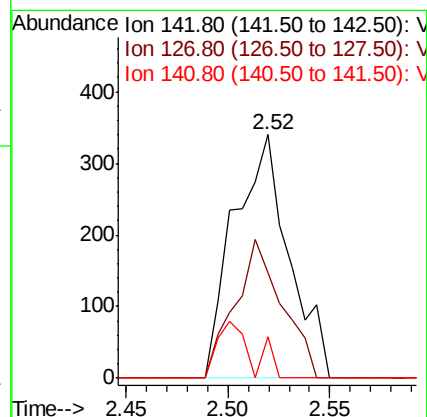
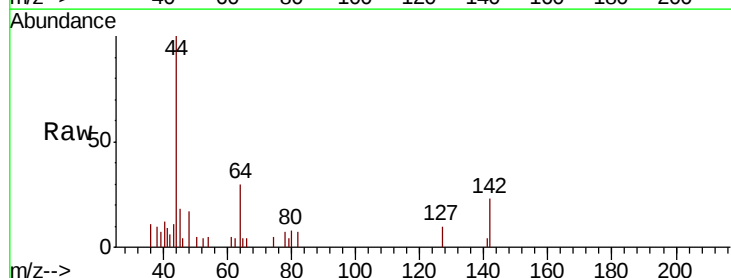
Tgt Ion: 142 Resp: 639

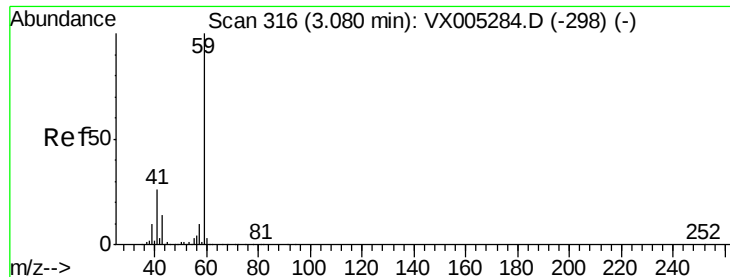
Ion Ratio Lower Upper

142 100

127 48.8 33.8 50.6

141 14.7 11.4 17.0

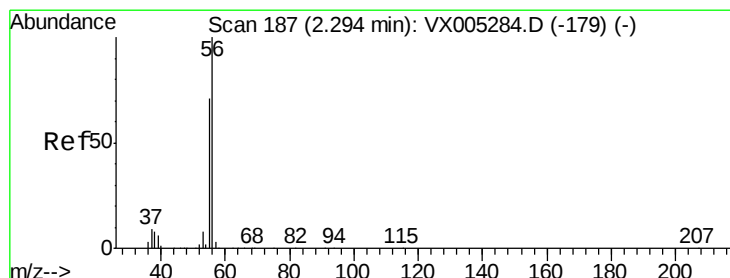
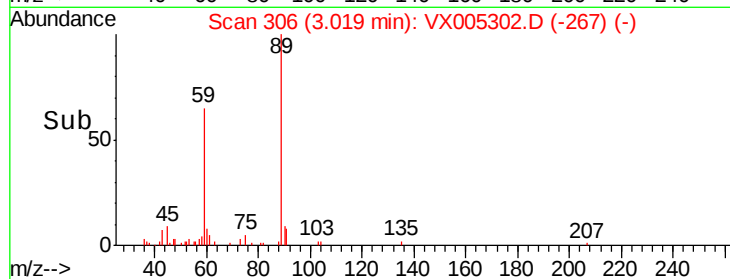
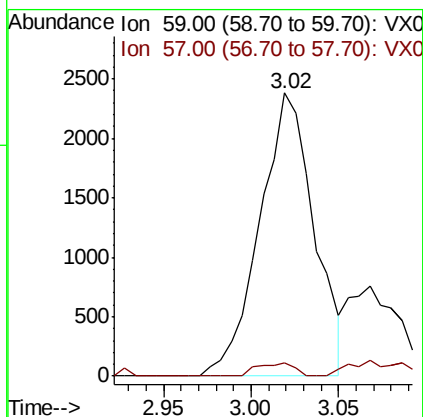
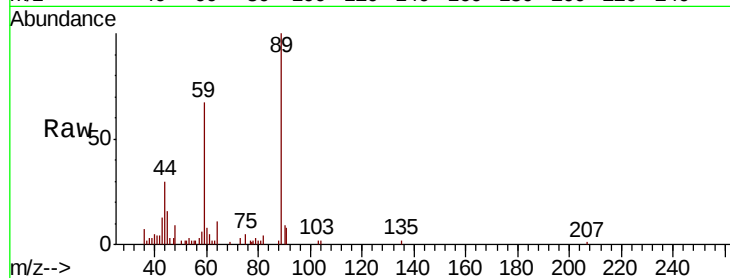




#11
Tert butyl alcohol
Concen: 5.697 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005302.D
Acq: 12 Oct 2018 19:11

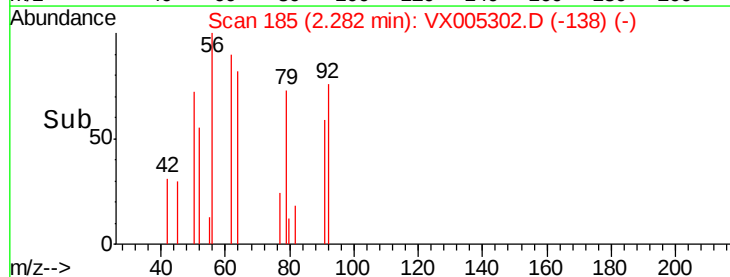
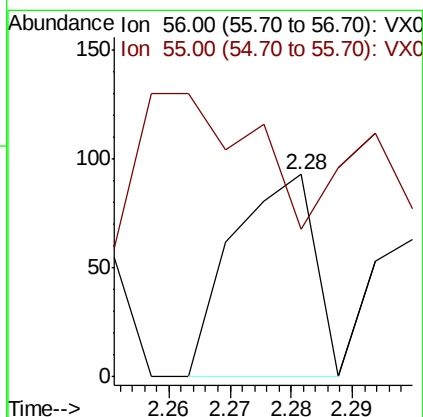
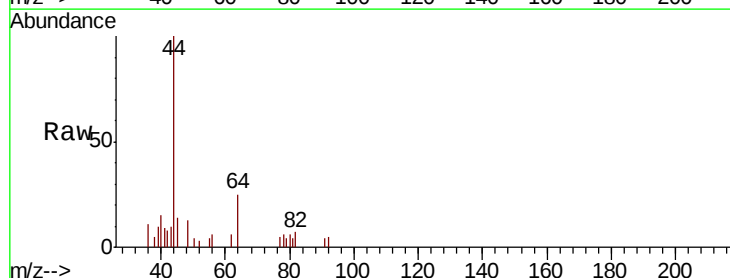
Instrument :
MSVOA_X
ClientSampled :

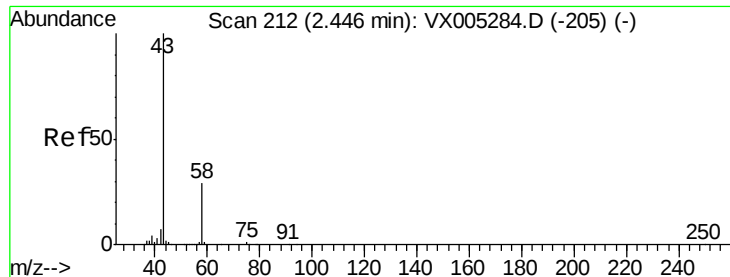
Tot Ion: 59 Resp: 5146
Ion Ratio Lower Upper
59 100
57 3.1 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX005302.D
Acq: 12 Oct 2018 19:11

Tgt Ion: 56 Resp: 86
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#

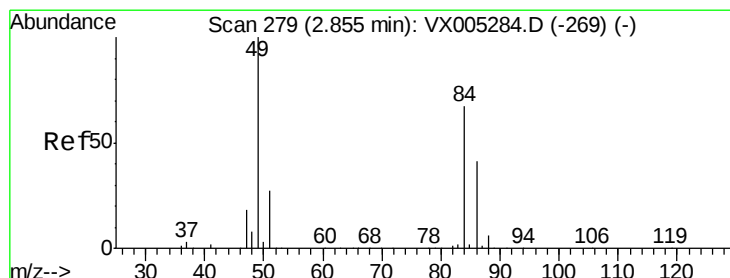
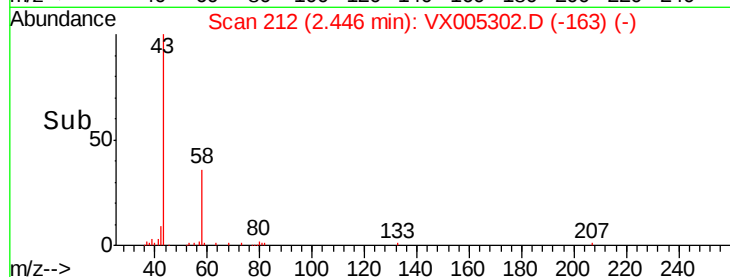
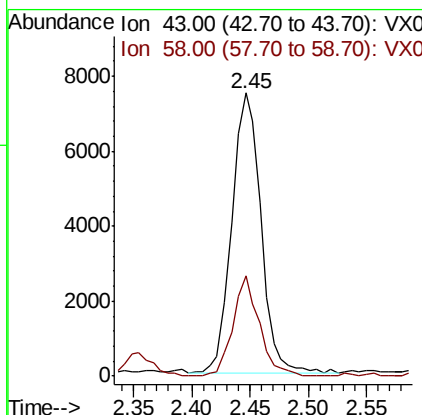
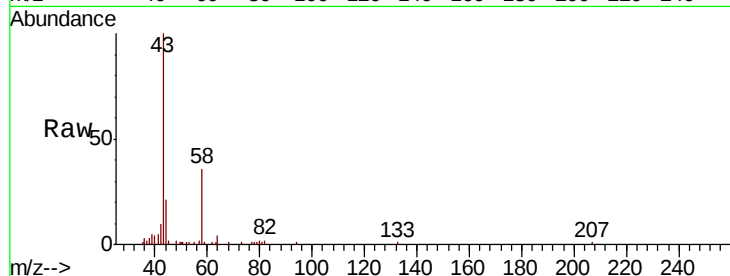




#16
Acetone
Concen: 7.052 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX005302.D
Acq: 12 Oct 2018 19:11

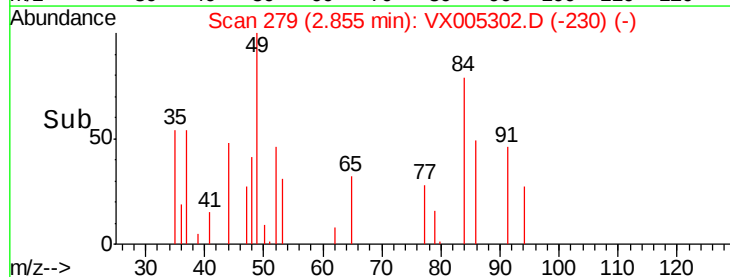
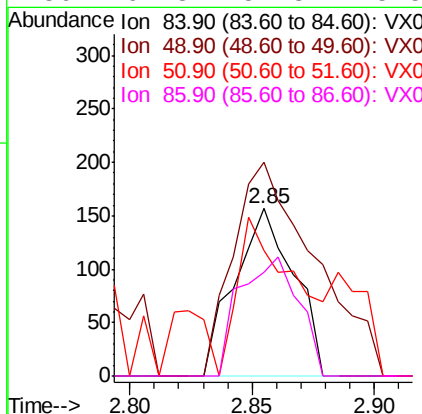
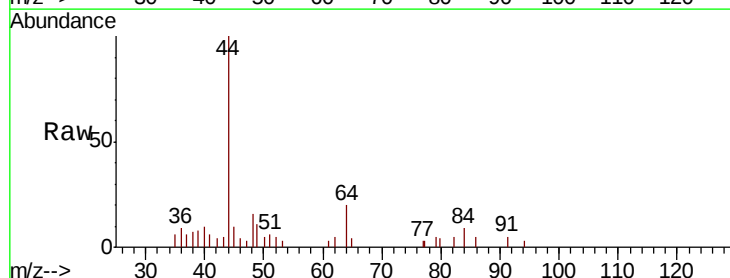
Instrument :
MSVOA_X
ClientSampleId :

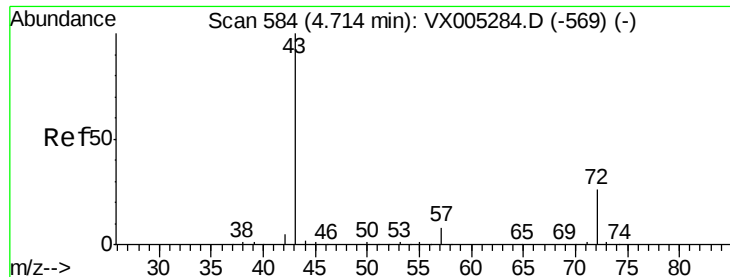
Tot Ion: 43 Resp: 13058
Ion Ratio Lower Upper
43 100
58 35.9 26.2 39.4



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005302.D
Acq: 12 Oct 2018 19:11

Tgt Ion: 84 Resp: 265
Ion Ratio Lower Upper
84 100
49 127.4 101.2 151.8
51 36.3 29.5 44.3
86 61.8 52.3 78.5





#25

2-Butanone

Concen: 1.131 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005302.D

Acq: 12 Oct 2018 19:11

Instrument :

MSVOA_X

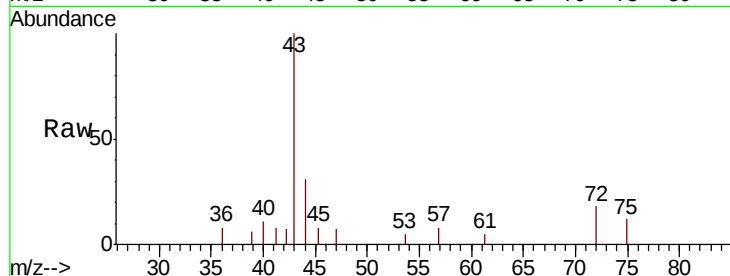
ClientSampleId :

Tot Ion: 43 Resp: 3063

Ion Ratio Lower Upper

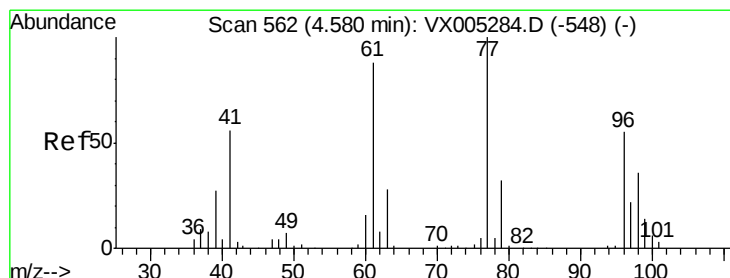
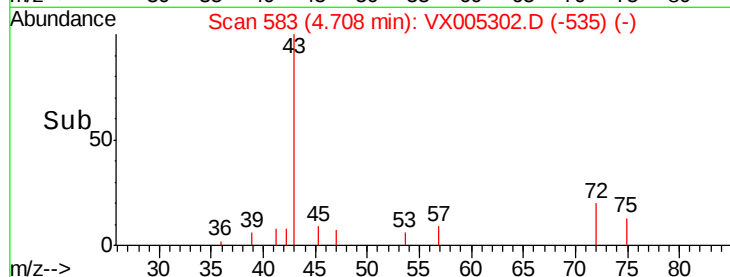
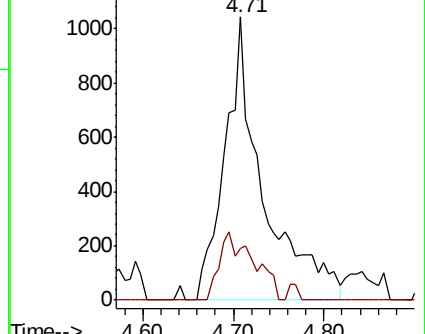
43 100

72 18.1 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.203 ug/l

RT: 4.78 min Scan# 594

Delta R.T. 0.19 min

Lab File: VX005302.D

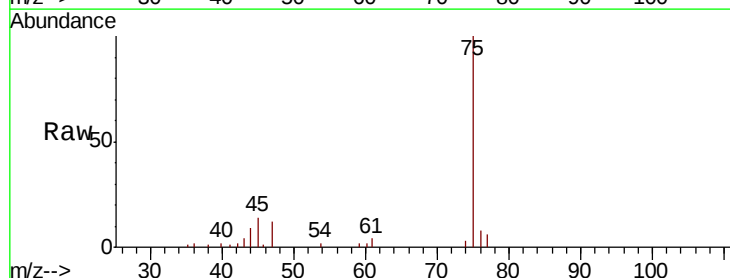
Acq: 12 Oct 2018 19:11

Tgt Ion: 77 Resp: 811

Ion Ratio Lower Upper

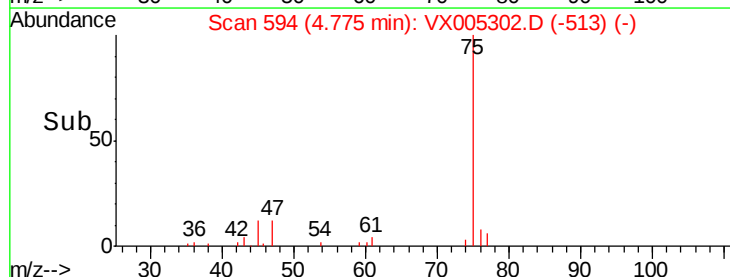
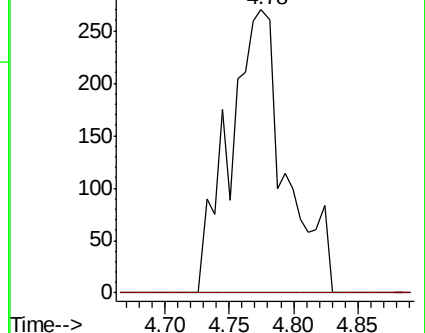
77 100

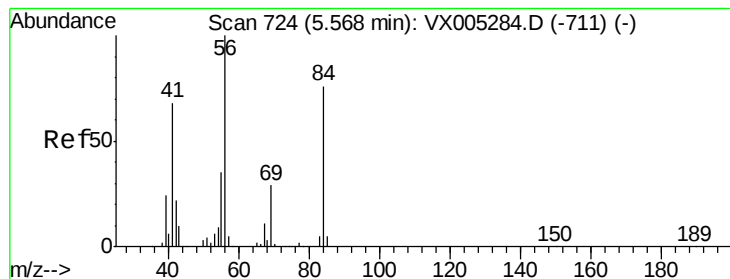
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#31

Cyclohexane

Concen: 1.227 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX005302.D

Acq: 12 Oct 2018 19:11

Instrument :

MSVOA_X

ClientSampled :

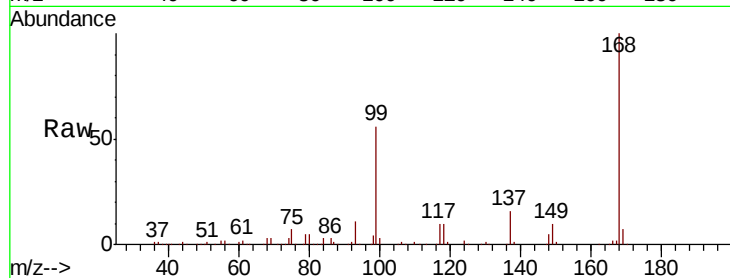
Tot Ion: 56 Resp: 5402

Ion Ratio Lower Upper

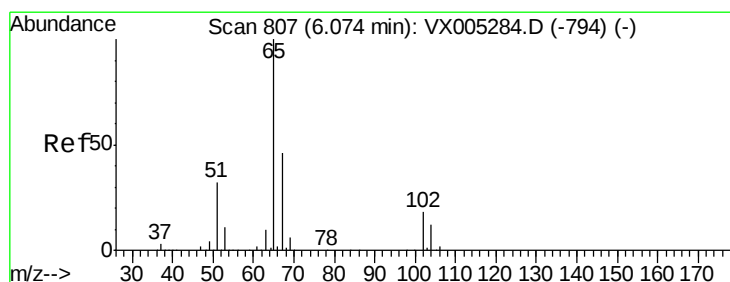
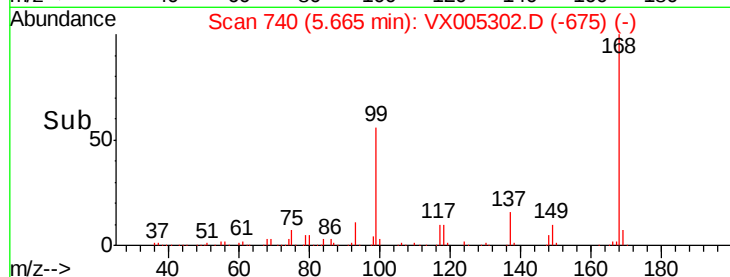
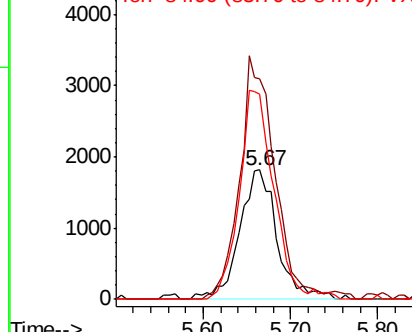
56 100

69 170.7 25.4 38.2#

84 158.6 71.4 107.2#



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: 52.375 ug/l

RT: 6.07 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX005302.D

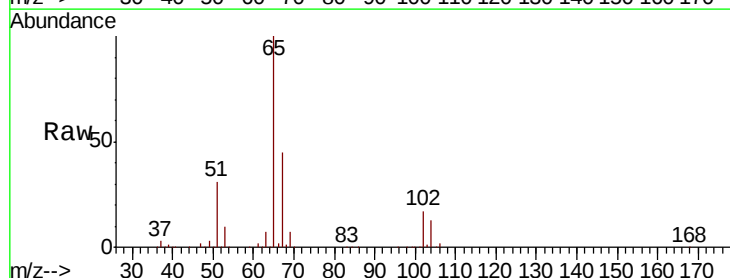
Acq: 12 Oct 2018 19:11

Tgt Ion: 65 Resp: 167727

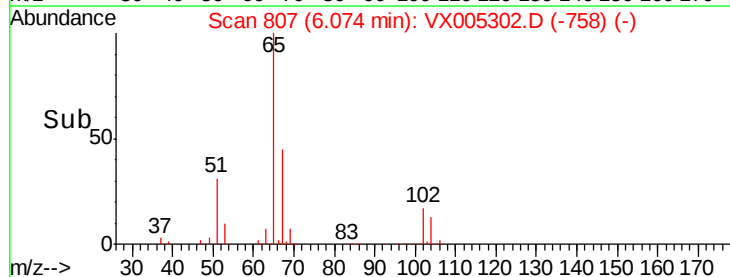
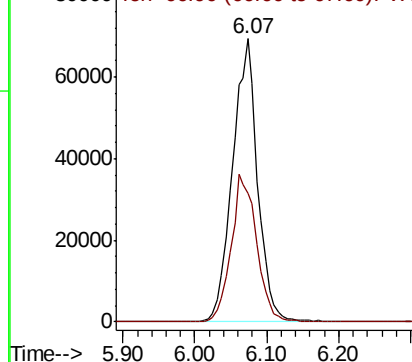
Ion Ratio Lower Upper

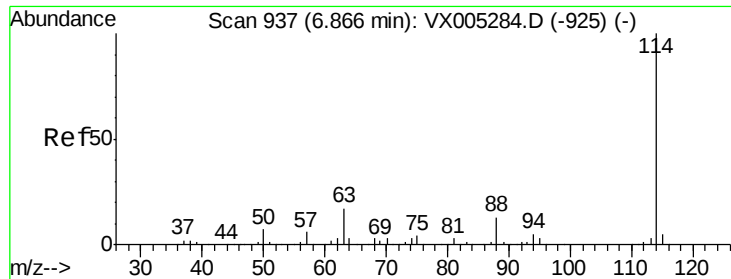
65 100

67 53.1 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

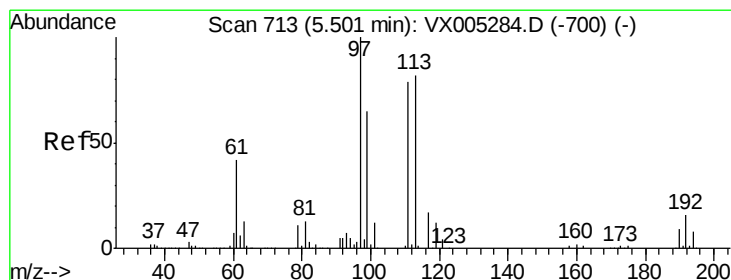
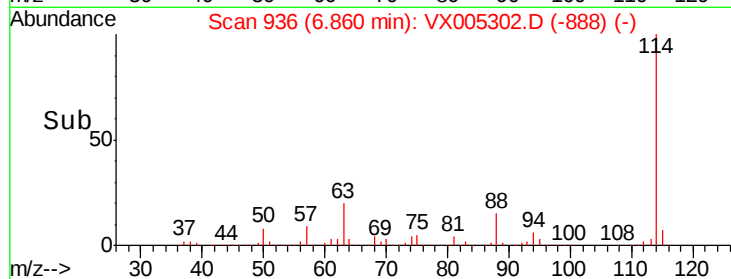
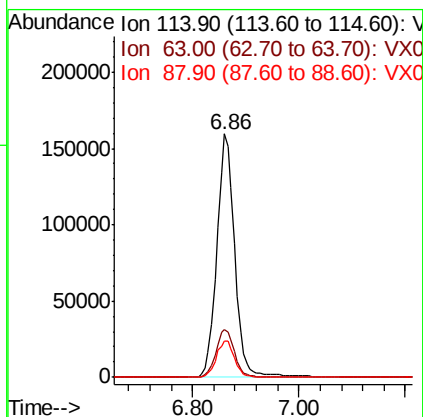
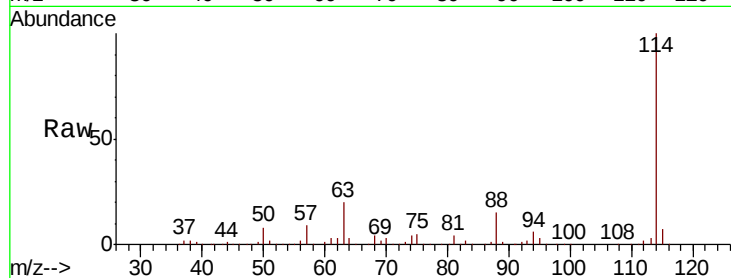




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005302.D
 Acq: 12 Oct 2018 19:11

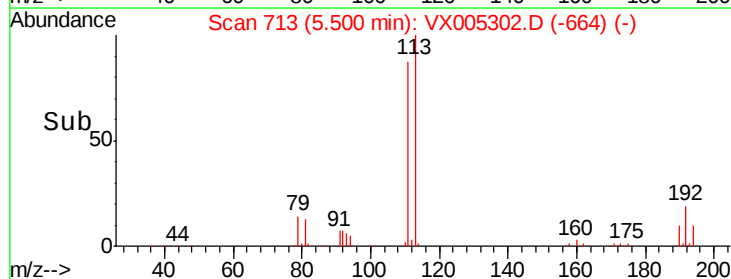
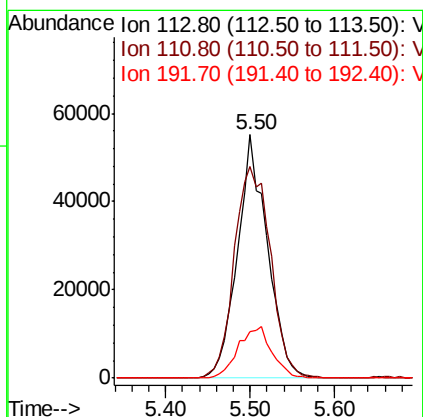
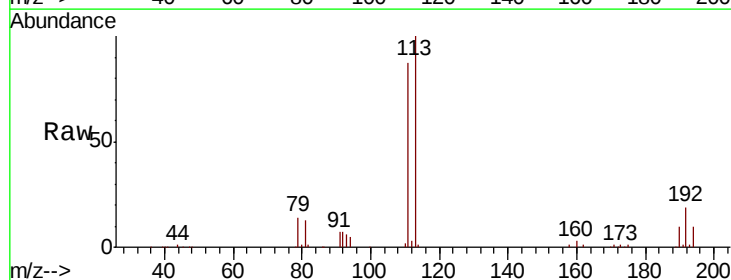
Instrument :
 MSVOA_X
 ClientSampleId :

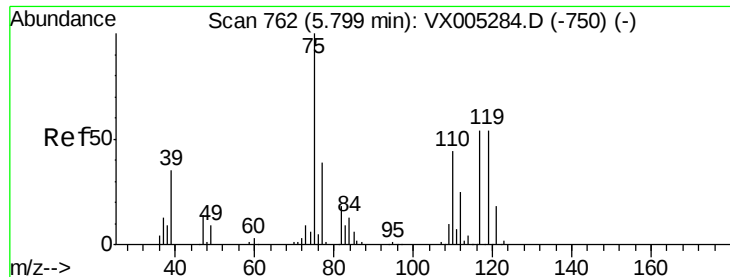
Tot Ion:114 Resp: 375029
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 14.7 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 53.452 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005302.D
 Acq: 12 Oct 2018 19:11

Tgt Ion:113 Resp: 132770
 Ion Ratio Lower Upper
 113 100
 111 105.1 82.4 123.6
 192 23.9 19.4 29.2

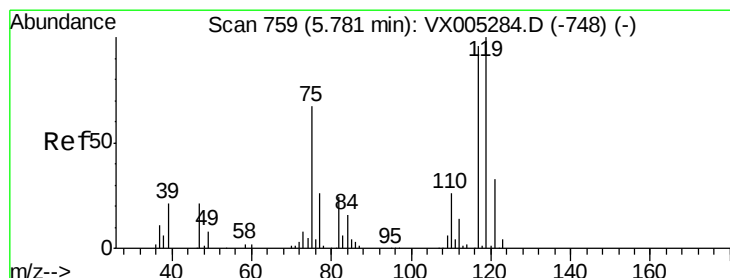
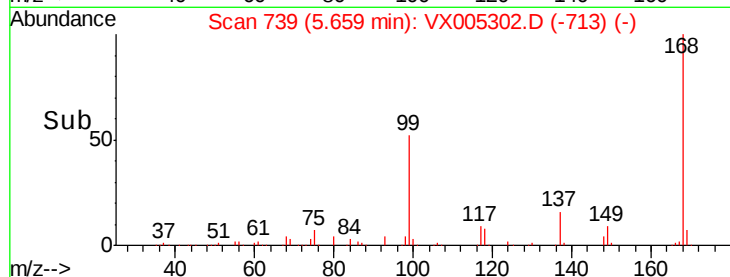
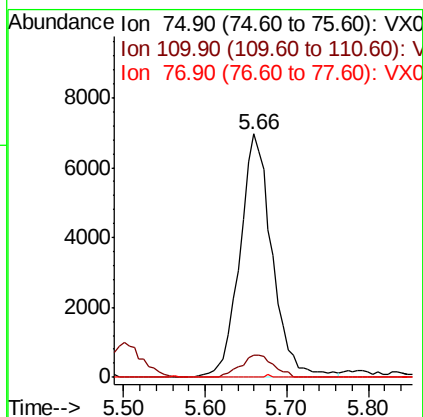
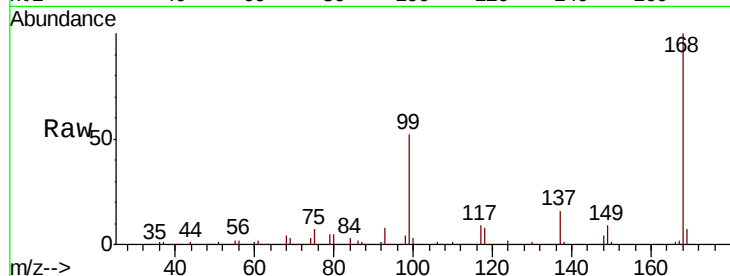




#36
 1,1-Dichloropropene
 Concen: 5.260 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005302.D
 Acq: 12 Oct 2018 19:11

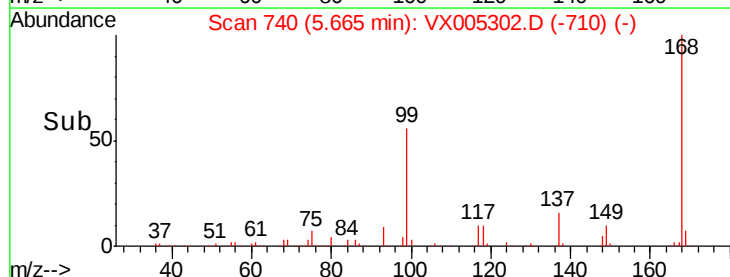
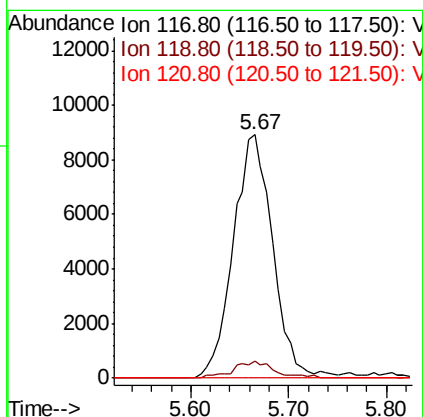
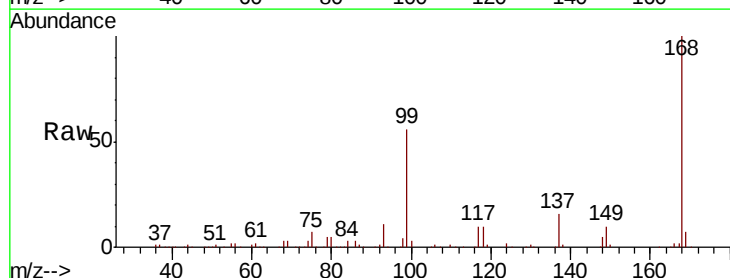
Instrument :
 MSVOA_X
 ClientSampleId :

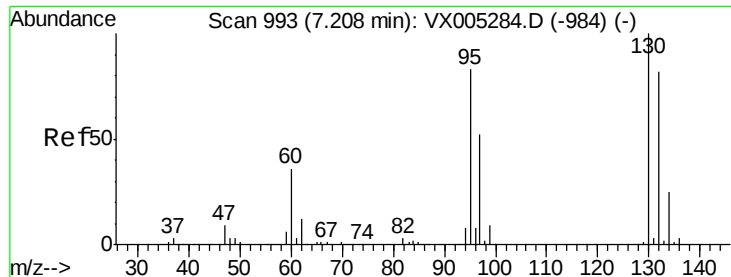
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.0	54.0#
77	0.2	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.826 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005302.D
 Acq: 12 Oct 2018 19:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.2	78.8	118.2#
121	0.0	24.9	37.3#

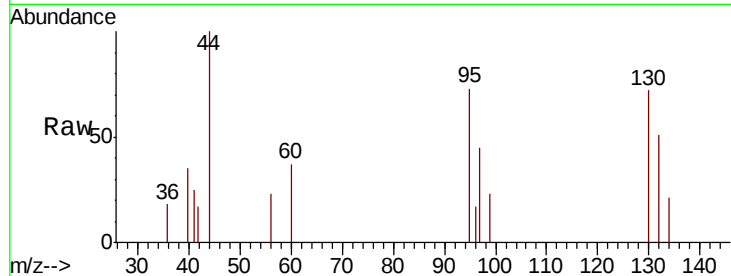




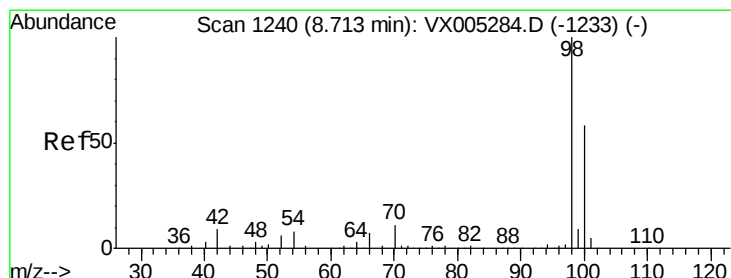
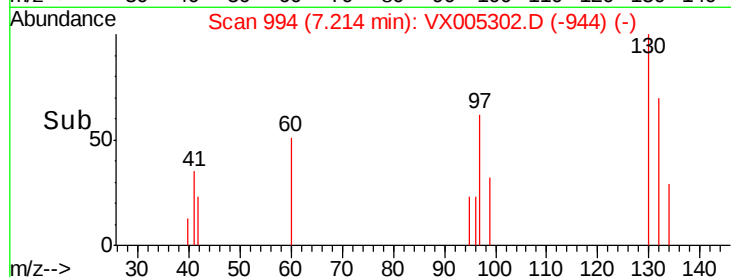
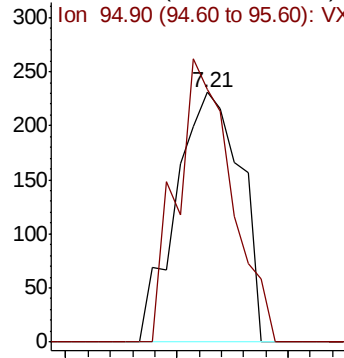
#44
 Trichloroethene
 Concen: Below Cal
 RT: 7.21 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VX005302.D
 Acq: 12 Oct 2018 19:11

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:130 Resp: 465
 Ion Ratio Lower Upper
 130 100
 95 100.9 0.0 181.6

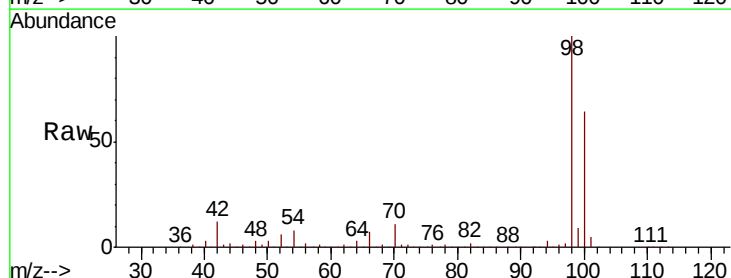


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

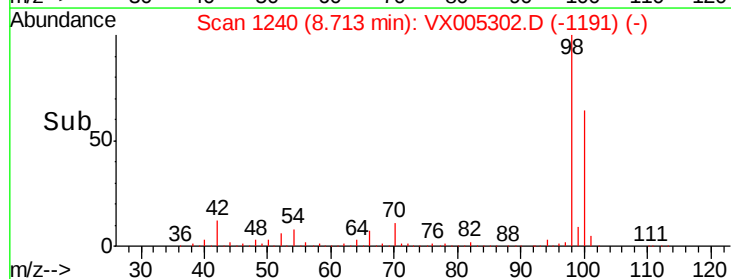
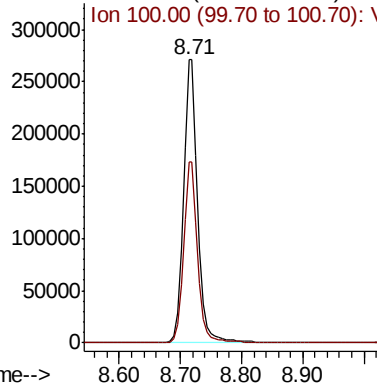


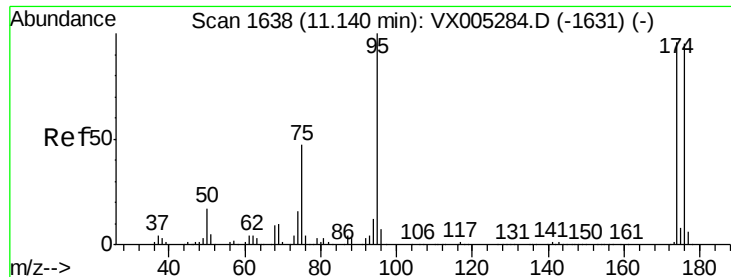
#50
 Toluene-d8
 Concen: 52.637 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX005302.D
 Acq: 12 Oct 2018 19:11

Tgt Ion: 98 Resp: 448862
 Ion Ratio Lower Upper
 98 100
 100 63.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.520 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005302.D

Acq: 12 Oct 2018 19:11

Instrument :

MSVOA_X

ClientSampleId :

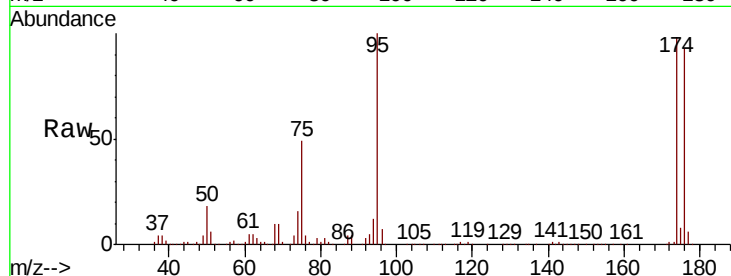
Tot Ion: 95 Resp: 145821

Ion Ratio Lower Upper

95 100

174 95.8 0.0 185.2

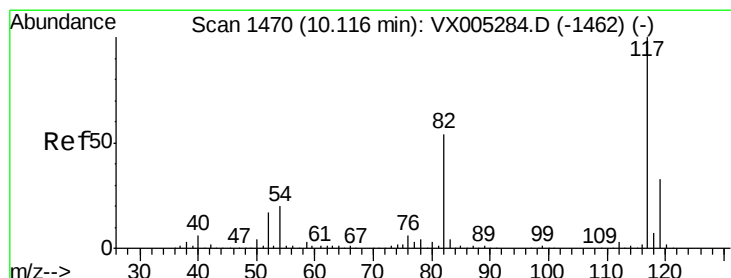
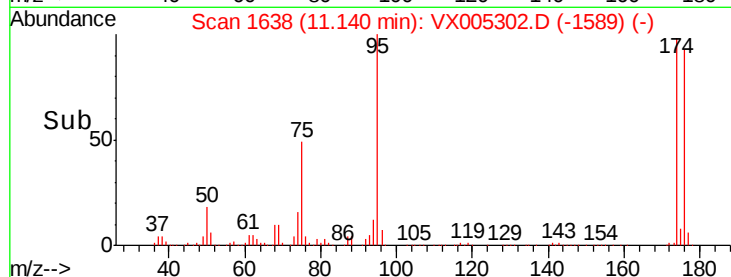
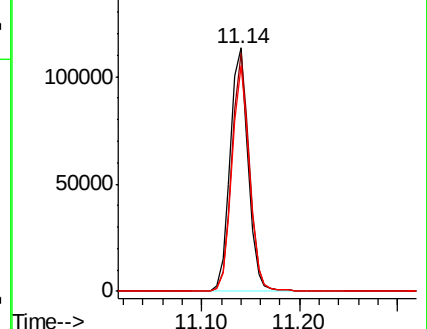
176 90.6 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005284.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005284.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005284.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005302.D

Acq: 12 Oct 2018 19:11

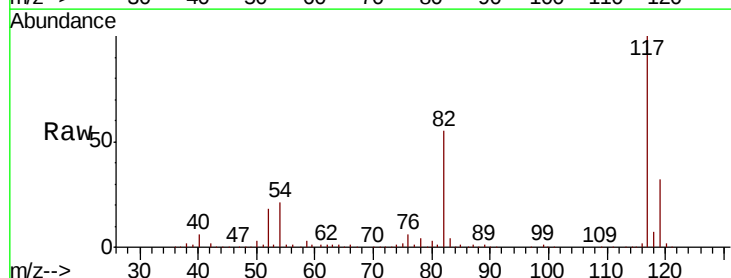
Tgt Ion: 117 Resp: 334128

Ion Ratio Lower Upper

117 100

82 54.9 47.8 71.6

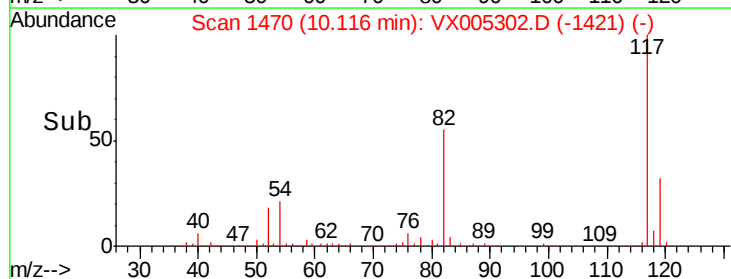
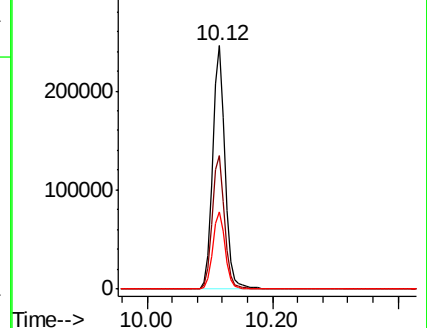
119 31.6 29.3 43.9

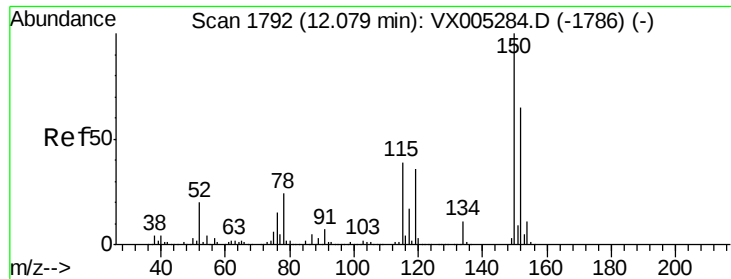


Abundance Ion 116.90 (116.60 to 117.60): VX005284.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005284.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005284.D (-1462) (-)



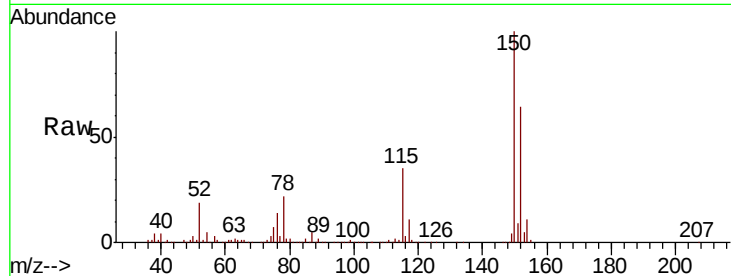


#72

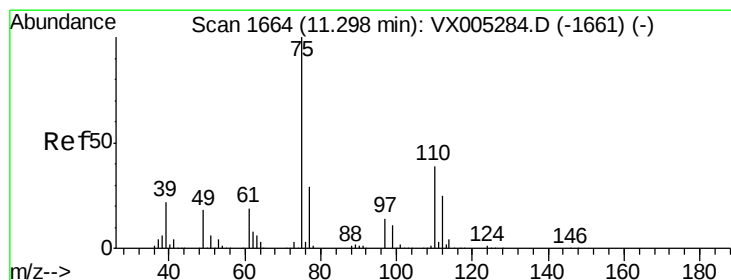
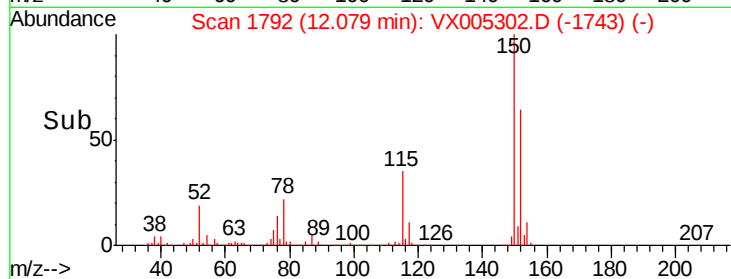
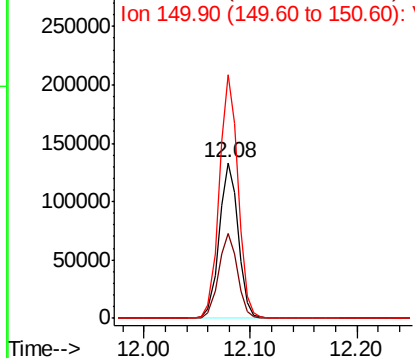
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005302.D
Acq: 12 Oct 2018 19:11

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:152 Resp: 164479
Ion Ratio Lower Upper
152 100
115 54.4 39.0 117.0
150 155.5 0.0 351.0



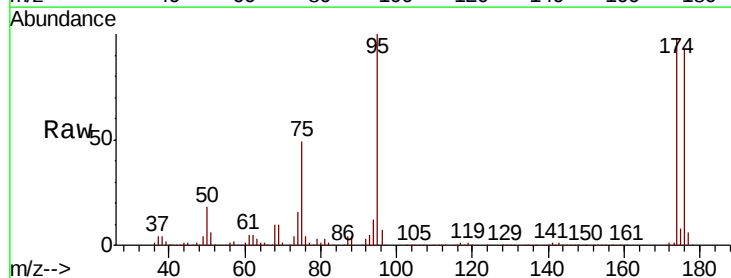
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



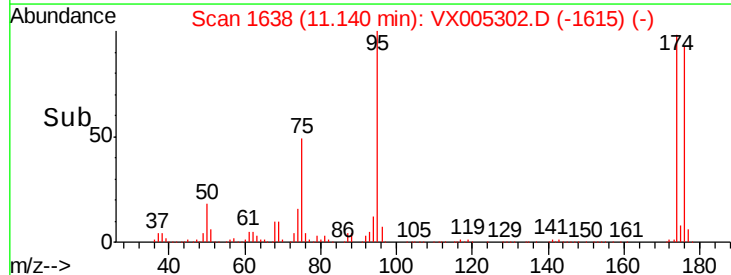
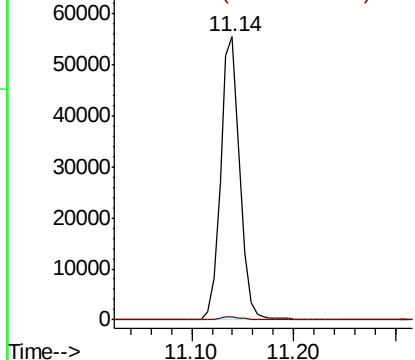
#76

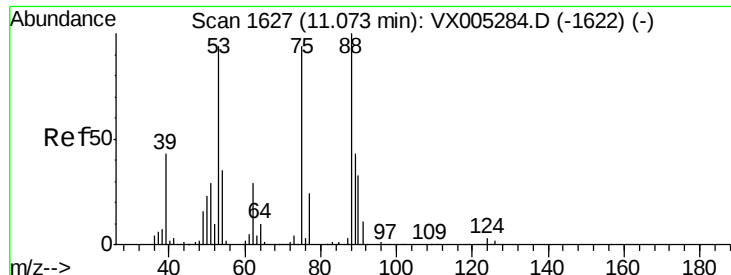
1,2,3-Trichloropropane
Concen: 22.740 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005302.D
Acq: 12 Oct 2018 19:11

Tgt Ion: 75 Resp: 72550
Ion Ratio Lower Upper
75 100
77 1.4 20.2 60.6#



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: 69.095 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005302.D

Acq: 12 Oct 2018 19:11

Instrument :

MSVOA_X

ClientSampleId :

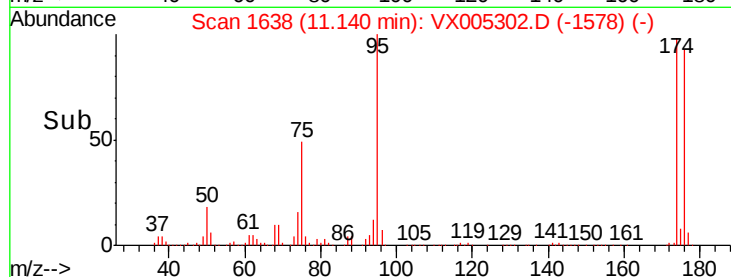
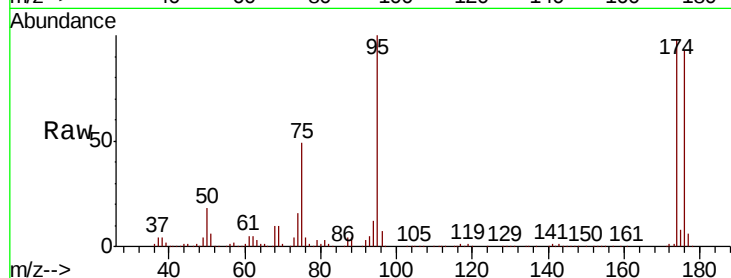
Tot Ion: 75 Resp: 72550

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

