

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050919\
 Data File : VX009452.D
 Acq On : 10 May 2019 01:30
 Operator : JC/SP
 Sample : K2782-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 10 07:12:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	196367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	312093	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	273243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	117895	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	127331	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
35) Dibromofluoromethane	5.50	113	94174	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
50) Toluene-d8	8.71	98	386919	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
62) 4-Bromofluorobenzene	11.13	95	128497	44.65	ug/l	0.00
Spiked Amount			Recovery	=	89.30%	

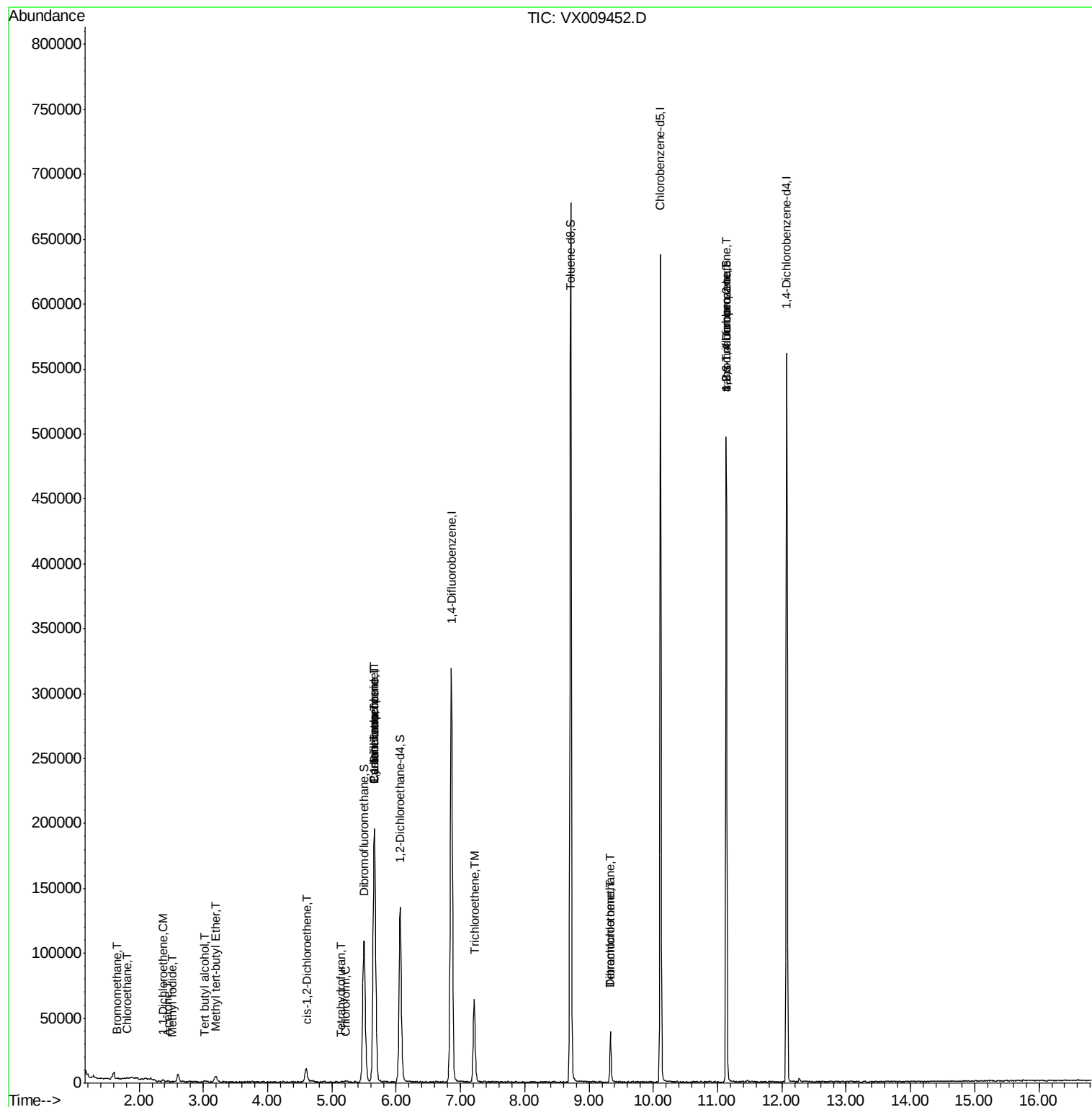
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	421	0.291	ug/l #	57
6) Chloroethane	1.82	64	3532	2.284	ug/l #	43
10) Methyl Iodide	2.52	142	156	4.660	ug/l #	57
11) Tert butyl alcohol	3.02	59	616	0.993	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	480	0.261	ug/l #	74
16) Acetone	2.44	43	1005	0.698	ug/l	90
19) Methyl tert-butyl Ether	3.19	73	4551	0.636	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	6264	2.626	ug/l	89
28) Bromochloromethane	4.99	49	41	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	322	0.224	ug/l #	38
30) Chloroform	5.22	83	837	0.217	ug/l	94
31) Cyclohexane	5.65	56	4252	1.073	ug/l #	2
36) 1,1-Dichloropropene	5.66	75	14728	5.078	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17718	6.724	ug/l #	16
44) Trichloroethene	7.21	130	25208	11.617	ug/l	97
60) Dibromochloromethane	9.34	129	6792	3.124	ug/l #	11
64) Tetrachloroethene	9.34	164	7463	3.982	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	65225	23.851	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	65225	61.025	ug/l #	10

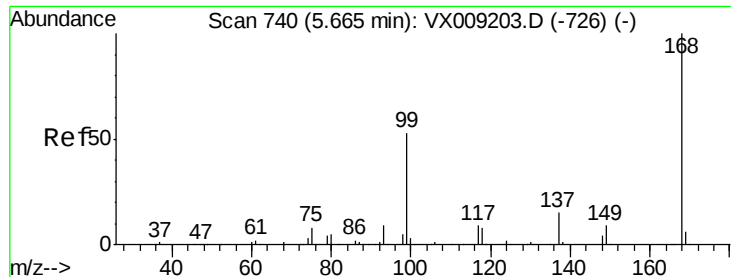
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009452.D

Acq: 10 May 2019 01:30

Instrument :

MSVOA_X

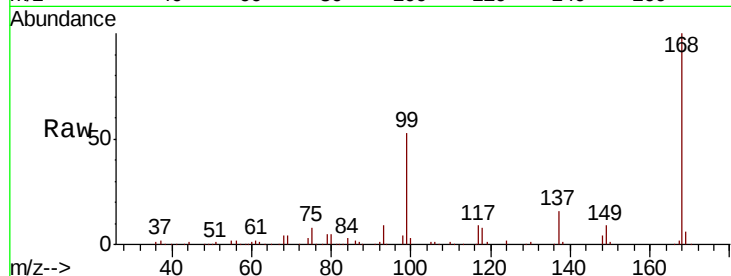
ClientSampleId :

Tot Ion:168 Resp: 196367

Ion Ratio Lower Upper

168 100

99 52.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

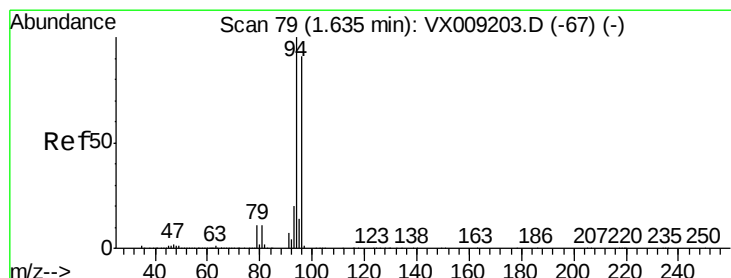
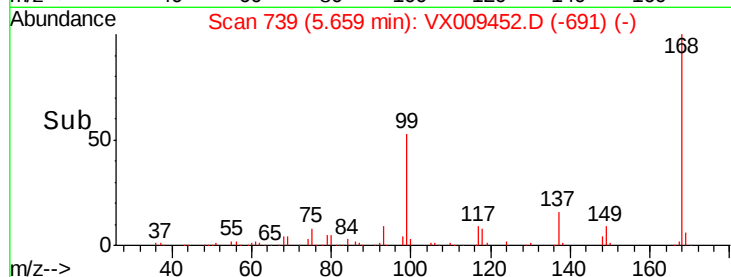
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.291 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX009452.D

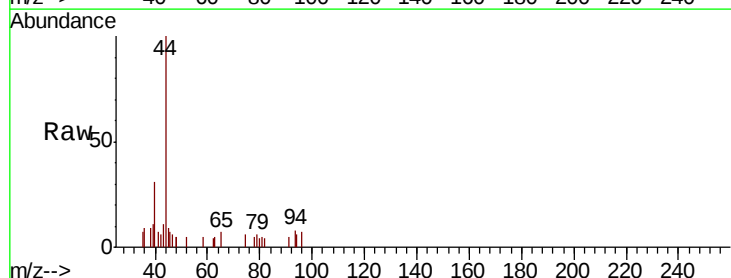
Acq: 10 May 2019 01:30

Tgt Ion: 94 Resp: 421

Ion Ratio Lower Upper

94 100

96 50.9 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

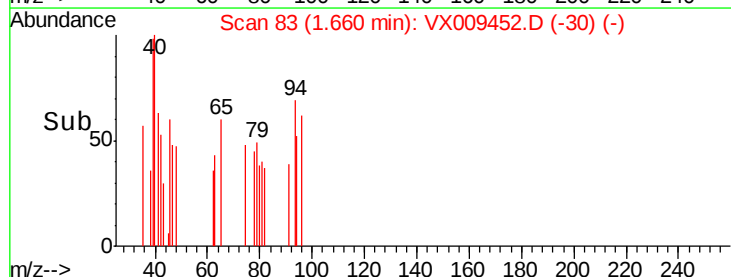
150

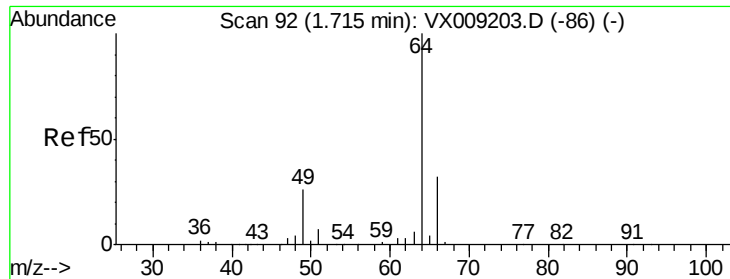
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 2.284 ug/l

RT: 1.82 min Scan# 109

Delta R.T. 0.10 min

Lab File: VX009452.D

Acq: 10 May 2019 01:30

Instrument :

MSVOA_X

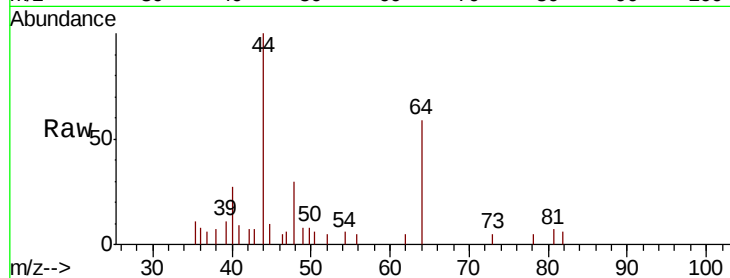
ClientSampled :

Tot Ion: 64 Resp: 3532

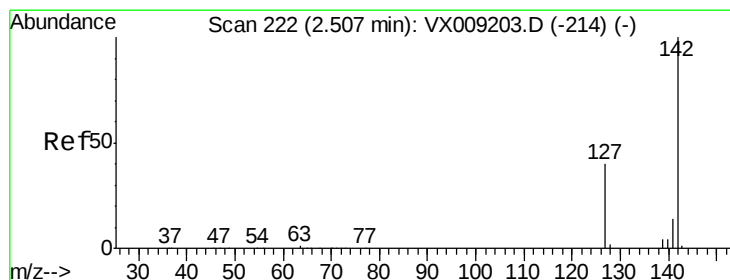
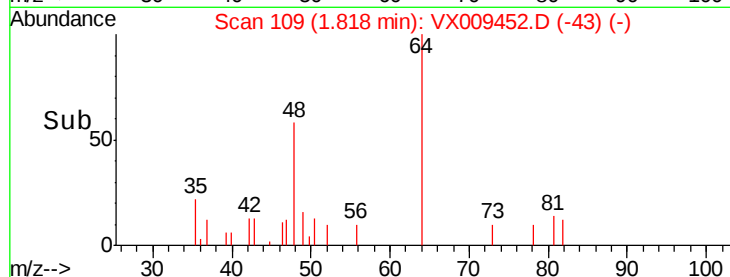
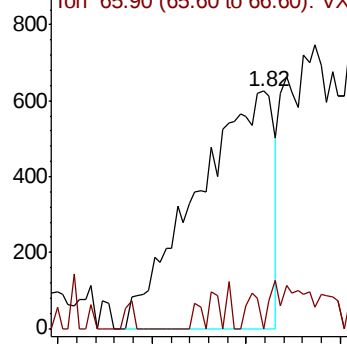
Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX009452.D (-43) (-)



#10

Methyl Iodide

Concen: 4.660 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009452.D

Acq: 10 May 2019 01:30

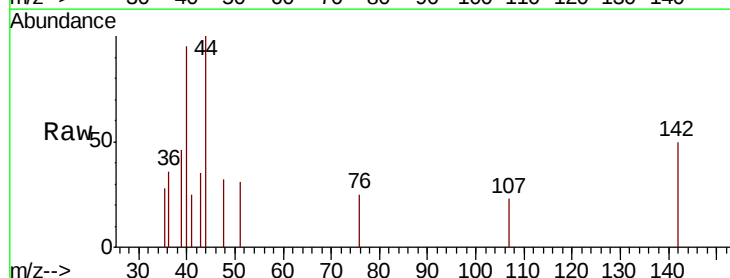
Tgt Ion: 142 Resp: 156

Ion Ratio Lower Upper

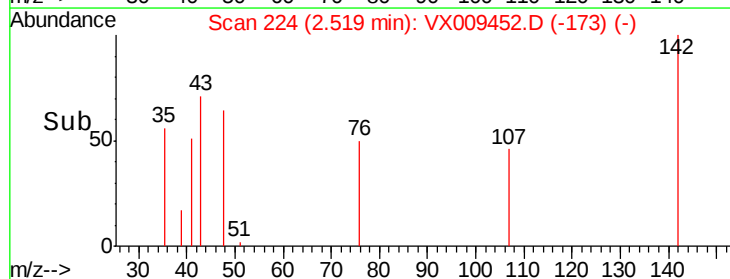
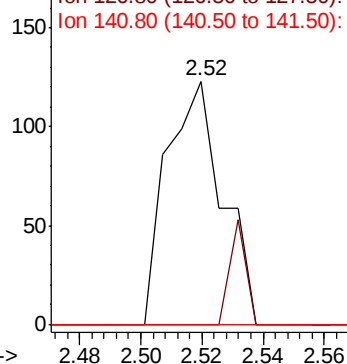
142 100

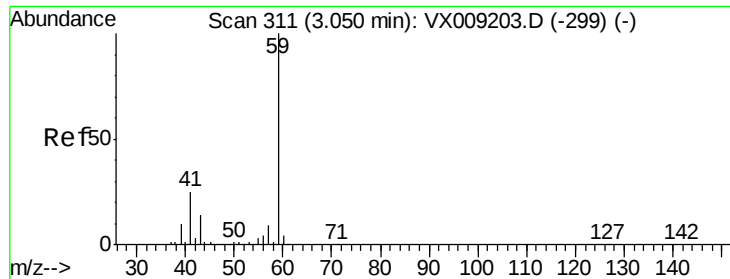
127 12.2 32.7 49.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VX009452.D (-173) (-)

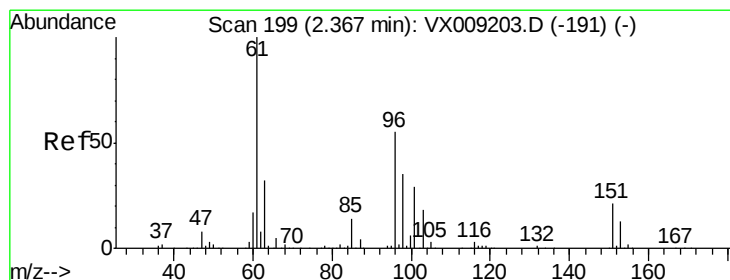
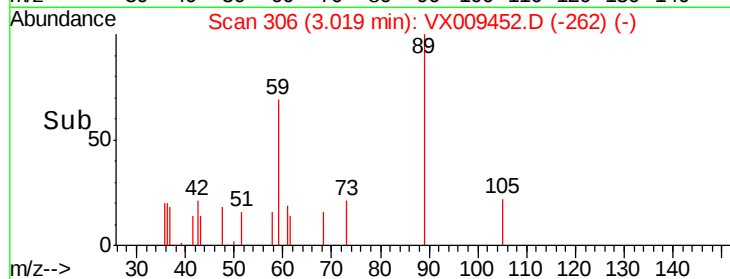
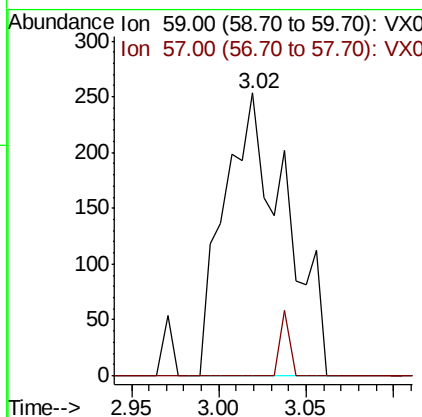
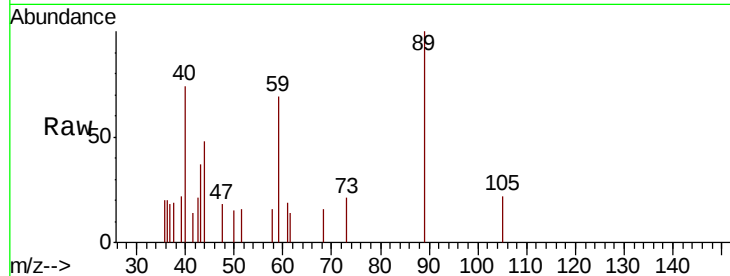




#11
Tert butyl alcohol
Concen: 0.993 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009452.D
Acq: 10 May 2019 01:30

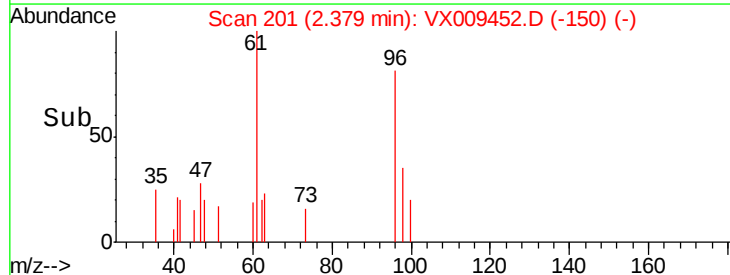
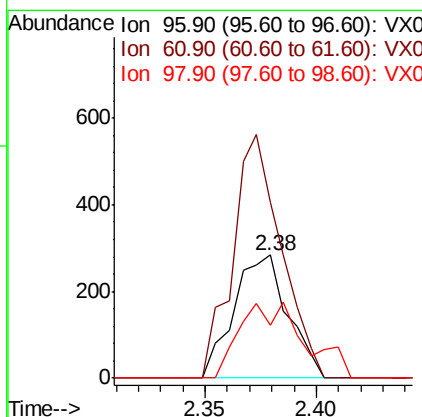
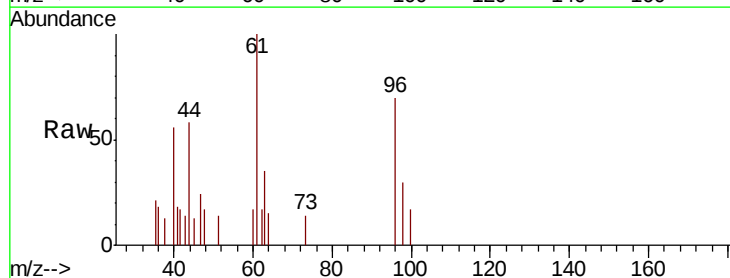
Instrument :
MSVOA_X
ClientSampleId :

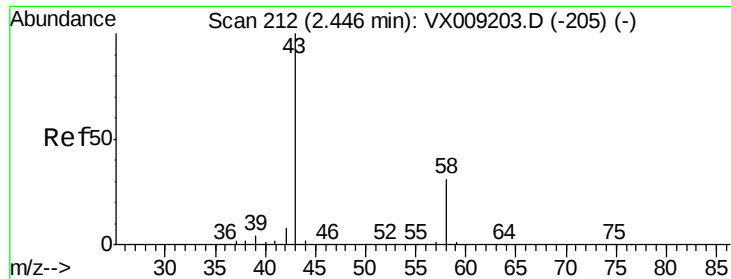
Tot Ion: 59 Resp: 616
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 0.261 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX009452.D
Acq: 10 May 2019 01:30

Tgt Ion: 96 Resp: 480
Ion Ratio Lower Upper
96 100
61 143.3 144.3 216.5#
98 43.0 50.3 75.5#

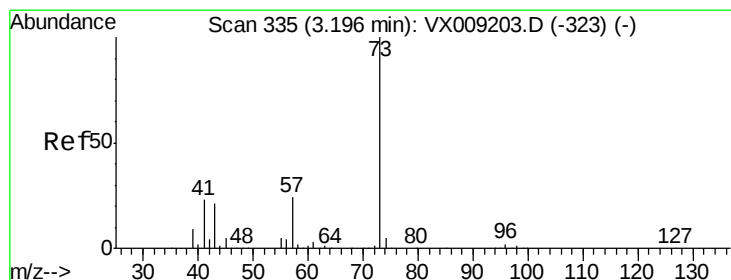
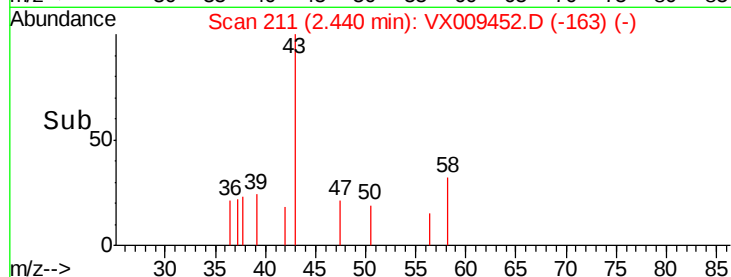
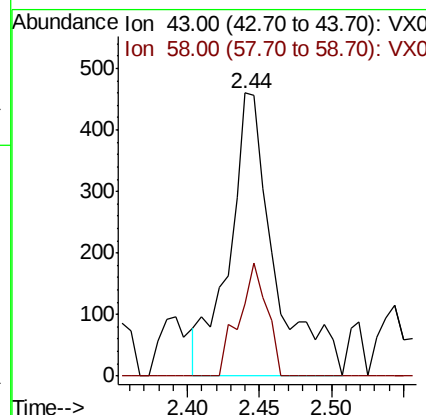
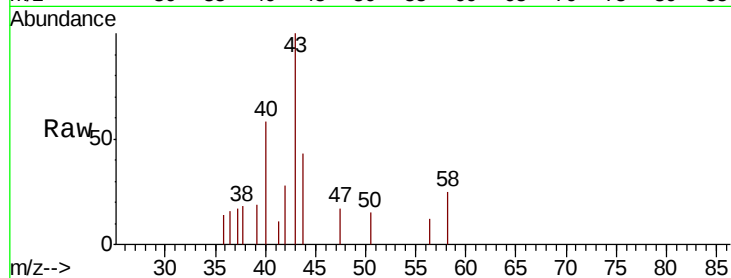




#16
 Acetone
 Concen: 0.698 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

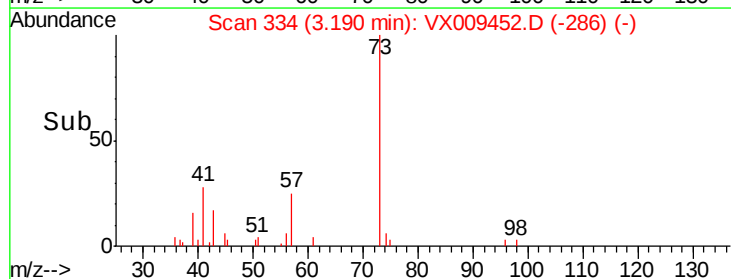
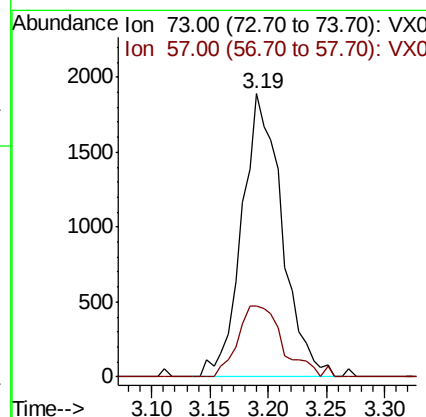
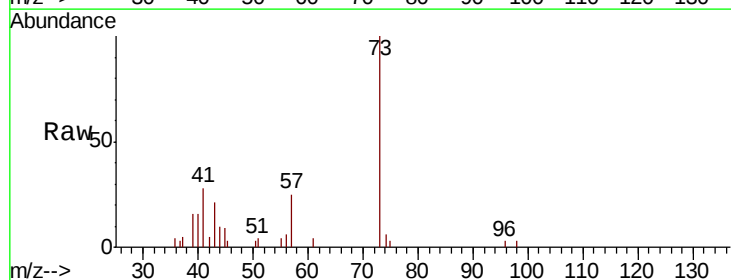
Instrument :
 MSVOA_X
 ClientSampled :

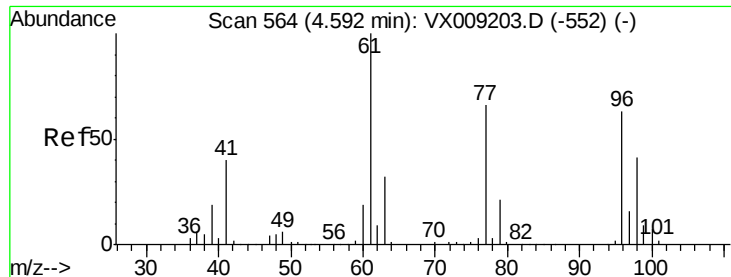
Tot Ion: 43 Resp: 1005
 Ion Ratio Lower Upper
 43 100
 58 25.4 24.9 37.3



#19
 Methyl tert-butyl Ether
 Concen: 0.636 ug/l
 RT: 3.19 min Scan# 334
 Delta R.T. -0.01 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

Tgt Ion: 73 Resp: 4551
 Ion Ratio Lower Upper
 73 100
 57 25.1 19.3 28.9



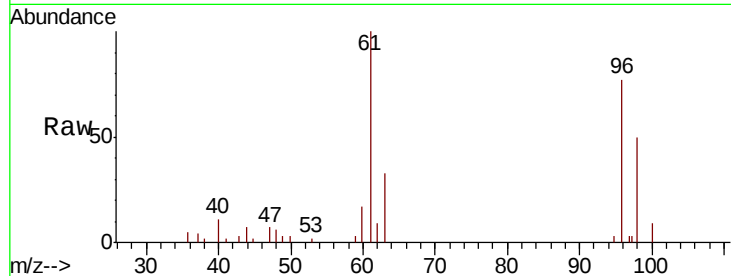


#27

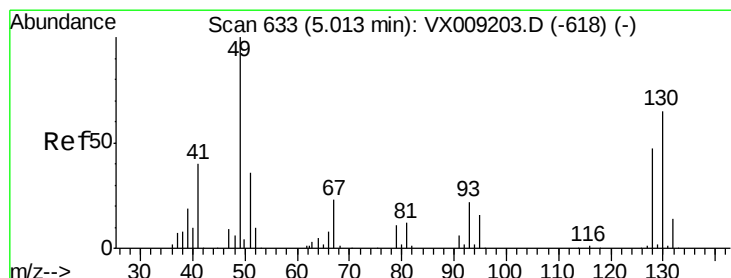
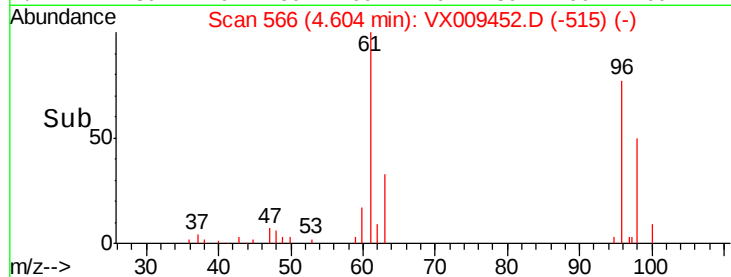
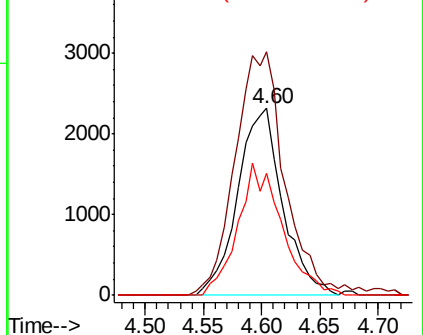
cis-1,2-Dichloroethene
 Concen: 2.626 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 96 Resp: 6264
 Ion Ratio Lower Upper
 96 100
 61 144.4 0.0 324.0
 98 68.9 0.0 130.4



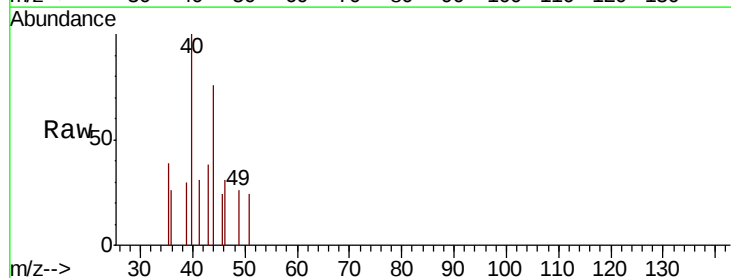
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



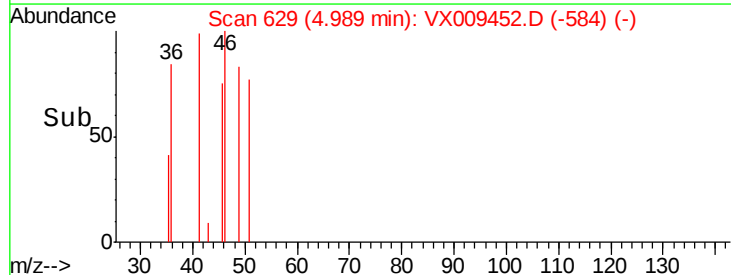
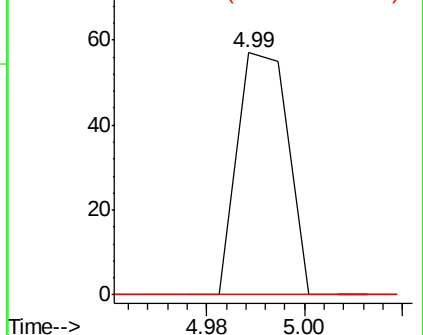
#28

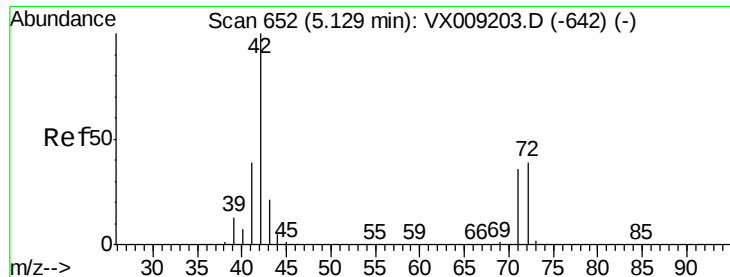
Bromochloromethane
 Concen: Below Cal
 RT: 4.99 min Scan# 629
 Delta R.T. -0.02 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

Tgt Ion: 49 Resp: 41
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

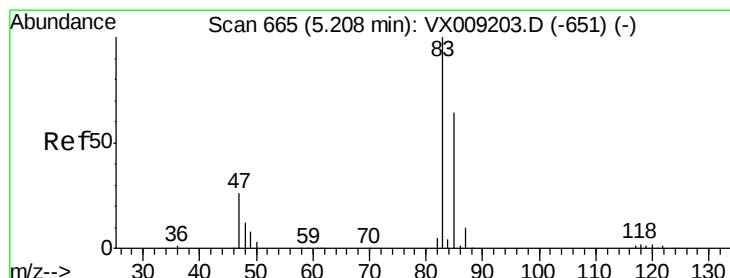
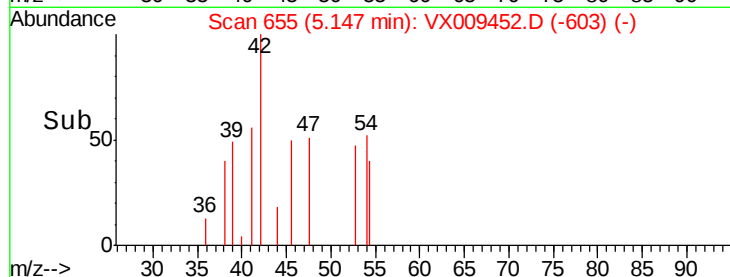
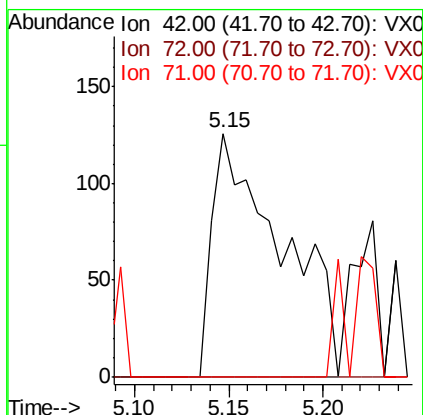
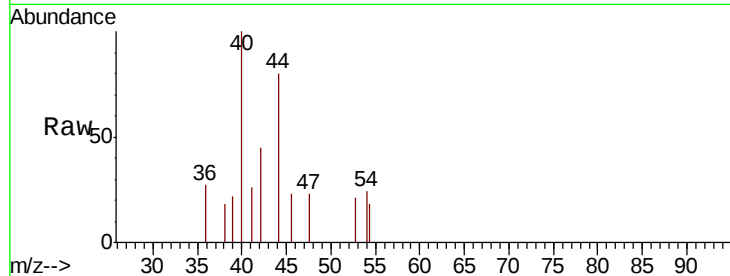




#29
Tetrahydrofuran
Concen: 0.224 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX009452.D
Acq: 10 May 2019 01:30

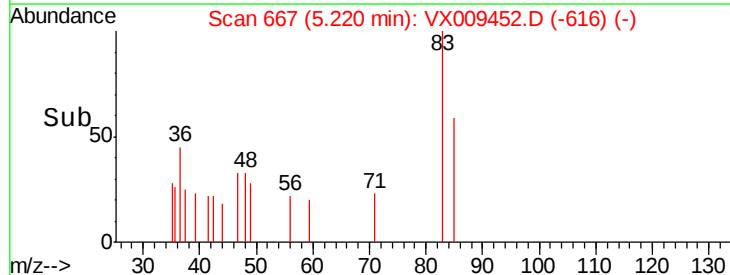
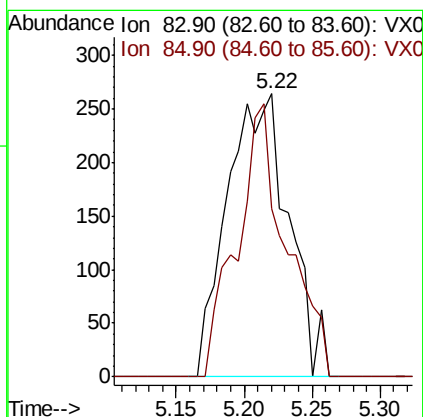
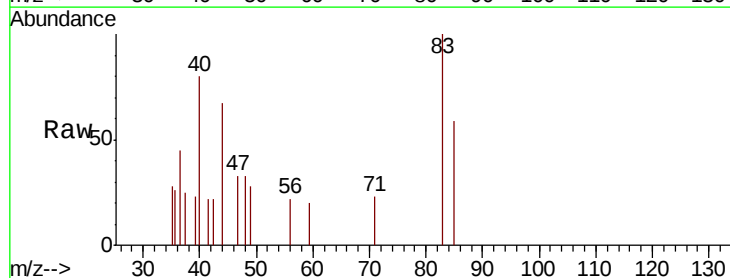
Instrument :
MSVOA_X
ClientSampled :

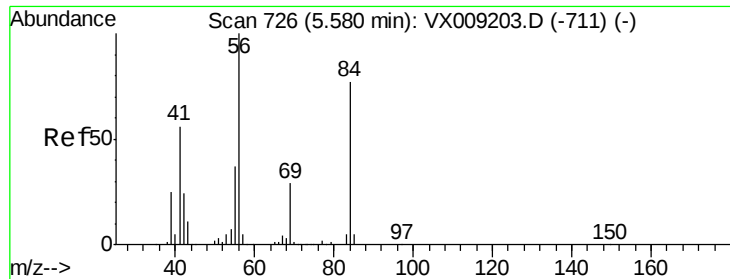
Tot Ion: 42 Resp: 322
Ion Ratio Lower Upper
42 100
72 0.0 30.4 45.6#
71 0.0 28.6 43.0#



#30
Chloroform
Concen: 0.217 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX009452.D
Acq: 10 May 2019 01:30

Tgt Ion: 83 Resp: 837
Ion Ratio Lower Upper
83 100
85 59.5 51.5 77.3

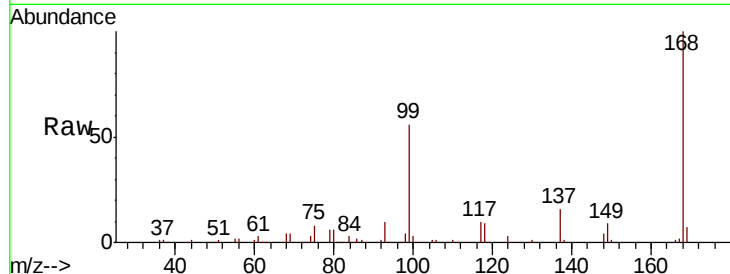




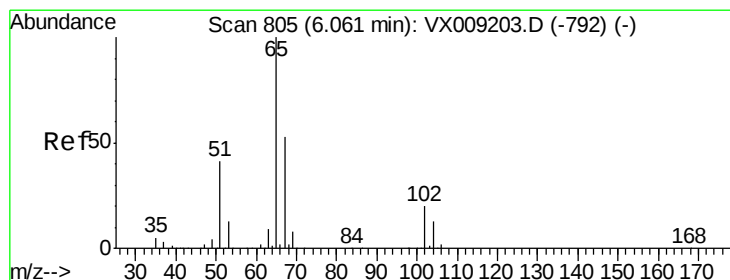
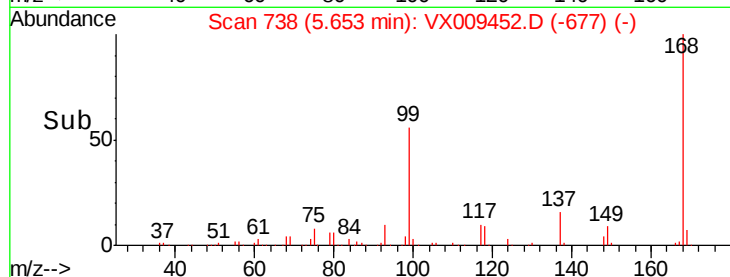
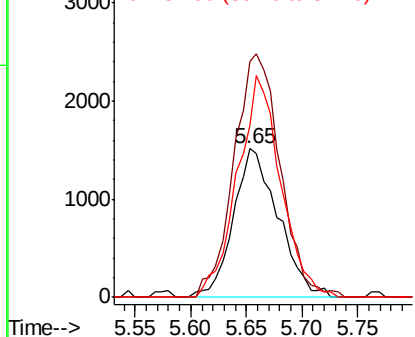
#31
Cyclohexane
Concen: 1.073 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX009452.D
Acq: 10 May 2019 01:30

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4252
Ion Ratio Lower Upper
56 100
69 158.7 23.4 35.0#
84 115.8 61.9 92.9#

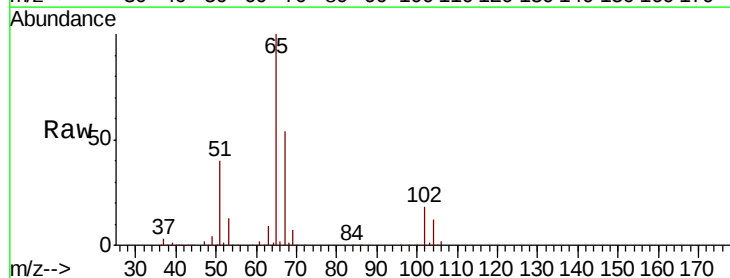


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

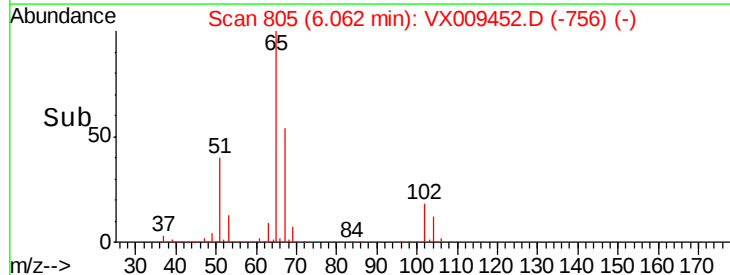
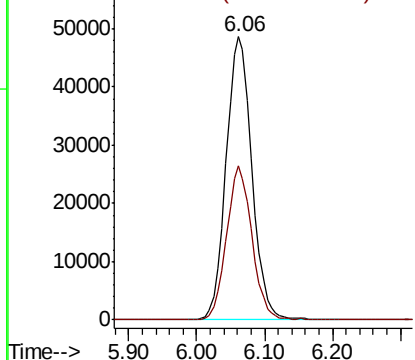


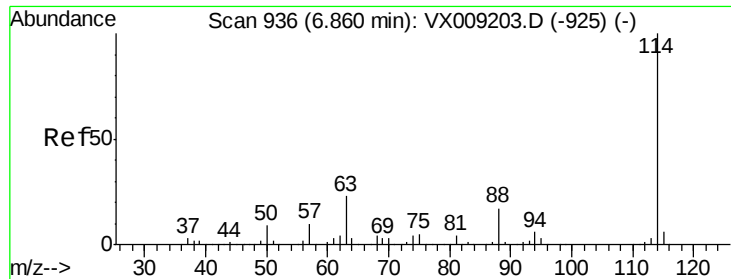
#33
1,2-Dichloroethane-d4
Concen: 47.500 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009452.D
Acq: 10 May 2019 01:30

Tgt Ion: 65 Resp: 127331
Ion Ratio Lower Upper
65 100
67 53.6 0.0 106.6



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

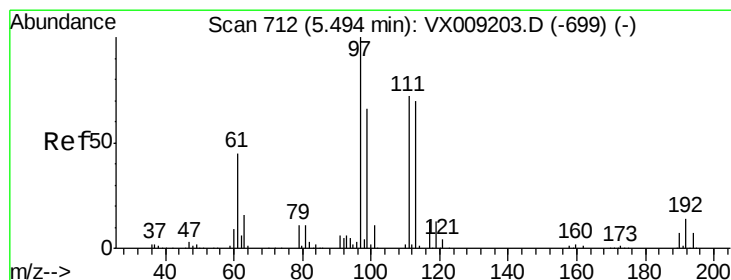
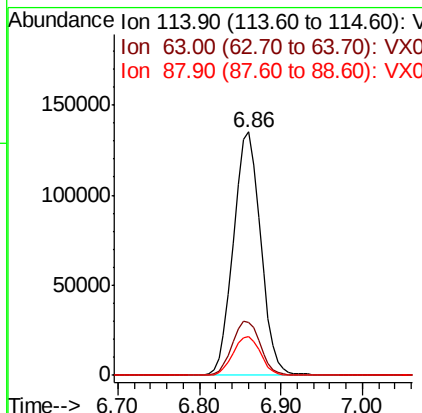
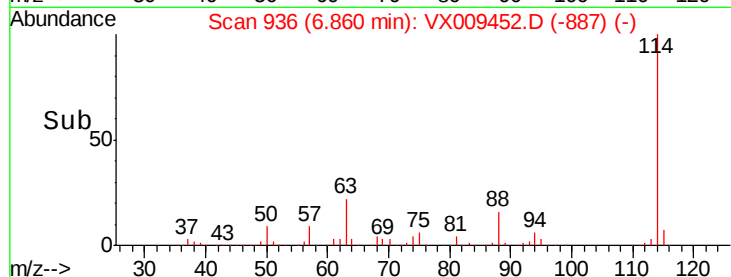
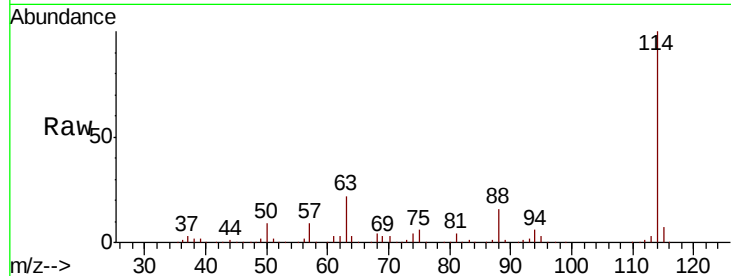




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

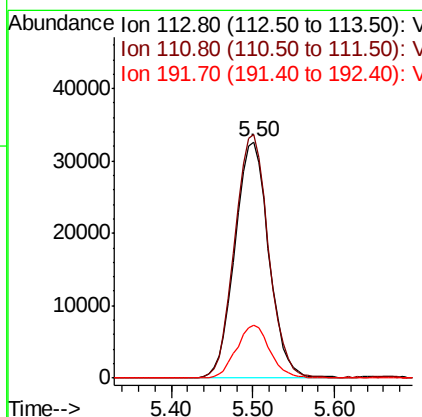
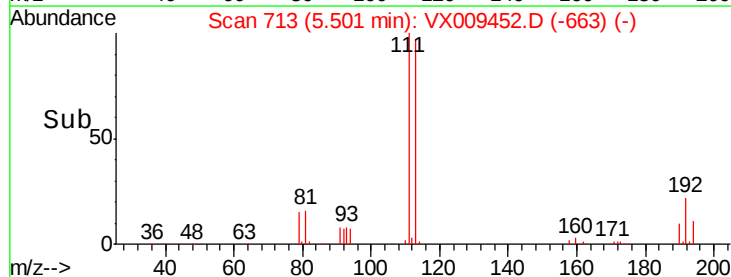
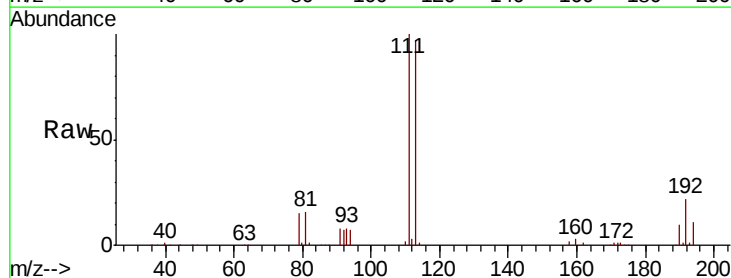
Instrument :
 MSVOA_X
 ClientSampleId :

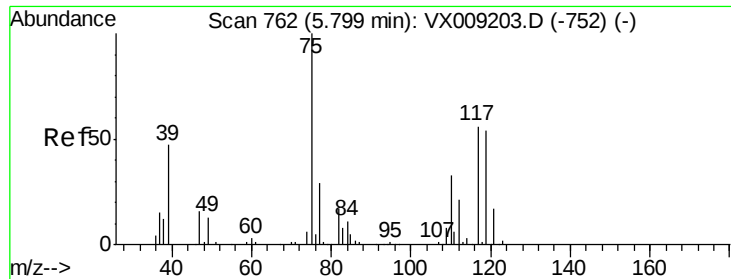
Tot Ion:114 Resp: 312093
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 45.6
 88 15.8 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 48.000 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

Tgt Ion:113 Resp: 94174
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.8 124.2
 192 22.1 17.0 25.6

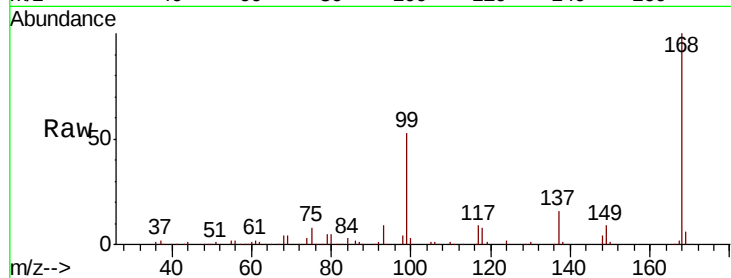




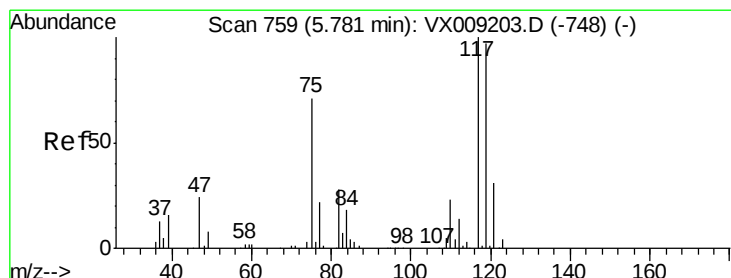
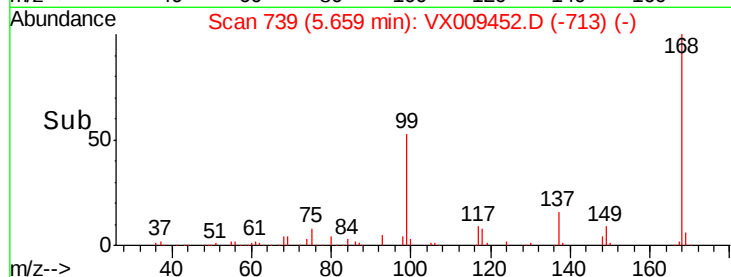
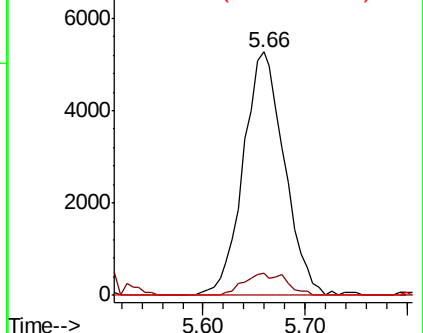
#36
 1,1-Dichloropropene
 Concen: 5.078 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 14728
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.9 50.6#
 77 0.0 24.8 37.2#

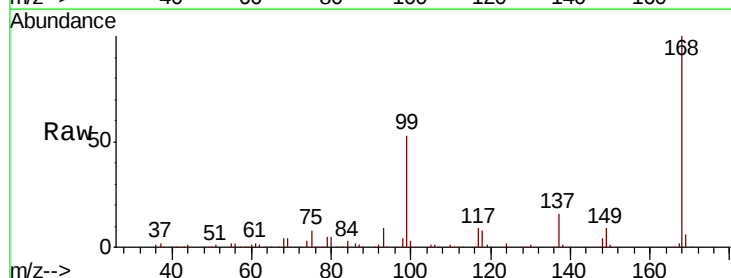


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

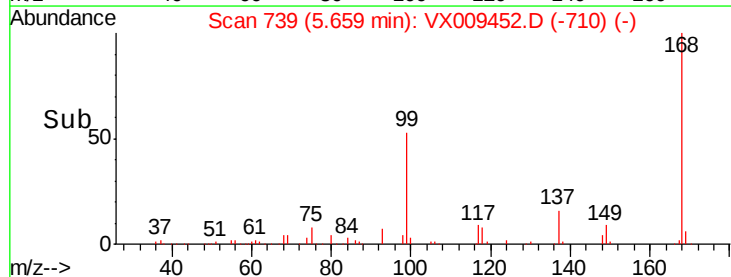
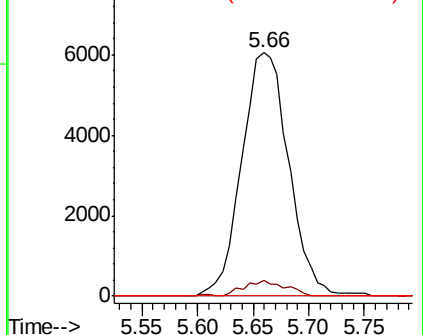


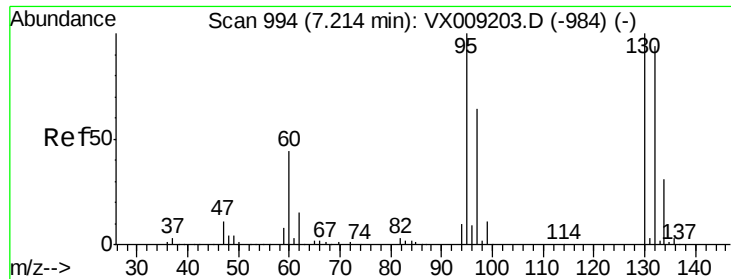
#38
 Carbon Tetrachloride
 Concen: 6.724 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

Tgt Ion: 117 Resp: 17718
 Ion Ratio Lower Upper
 117 100
 119 6.3 77.5 116.3#
 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

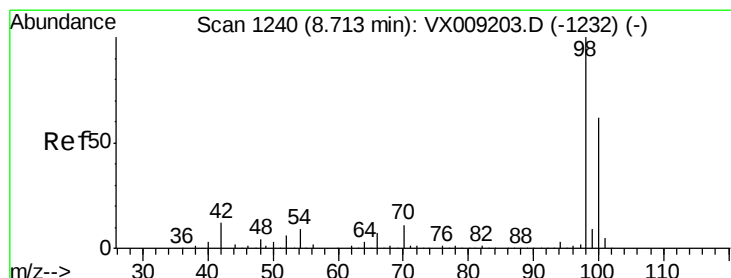
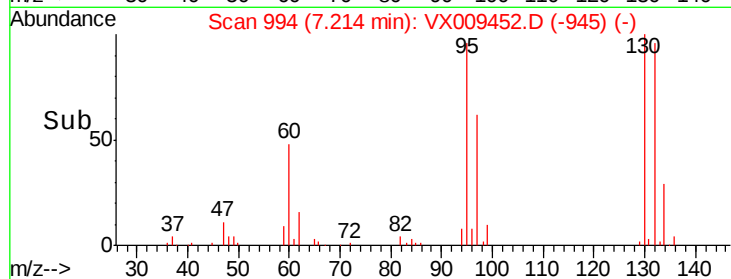
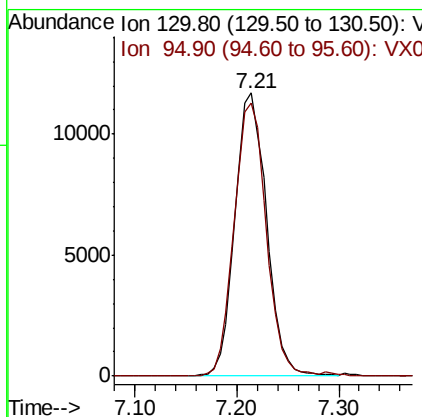
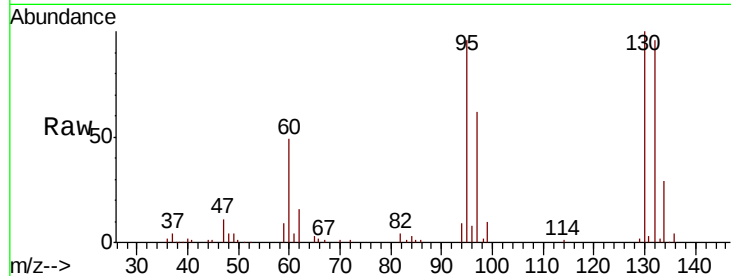




#44
 Trichloroethene
 Concen: 11.617 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

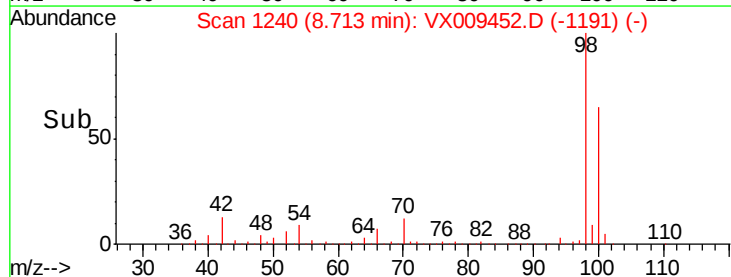
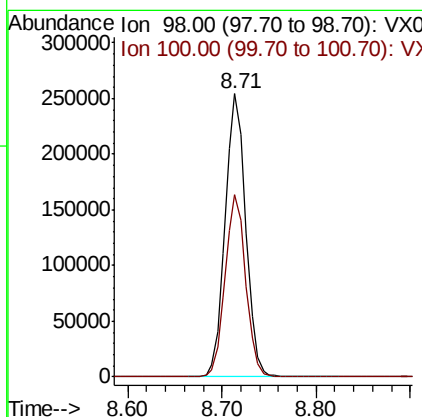
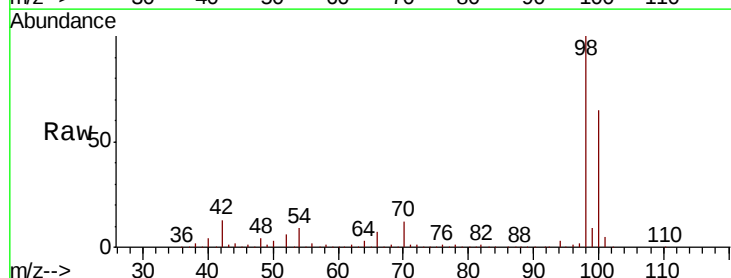
Instrument :
 MSVOA_X
 ClientSampled :

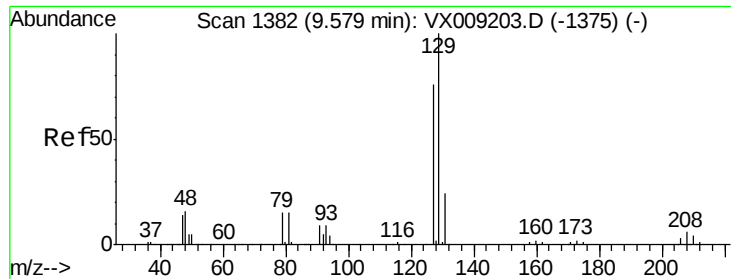
Tot Ion:130 Resp: 25208
 Ion Ratio Lower Upper
 130 100
 95 96.5 0.0 199.2



#50
 Toluene-d8
 Concen: 48.848 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

Tgt Ion: 98 Resp: 386919
 Ion Ratio Lower Upper
 98 100
 100 64.1 51.2 76.8

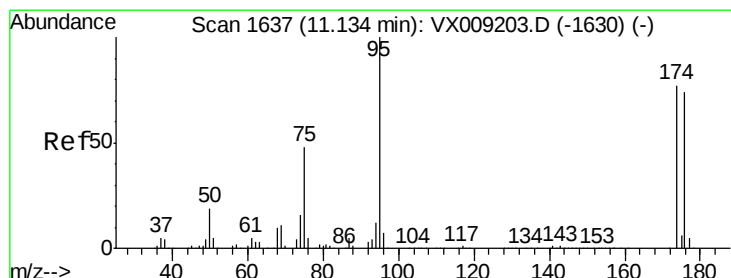
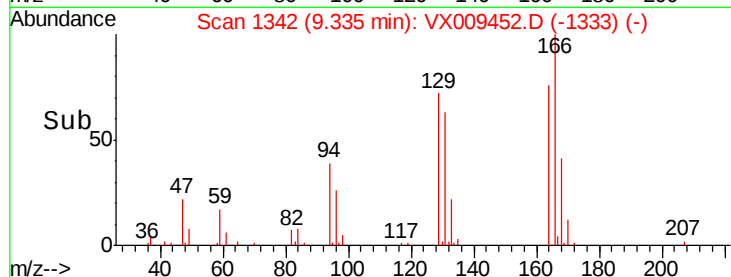
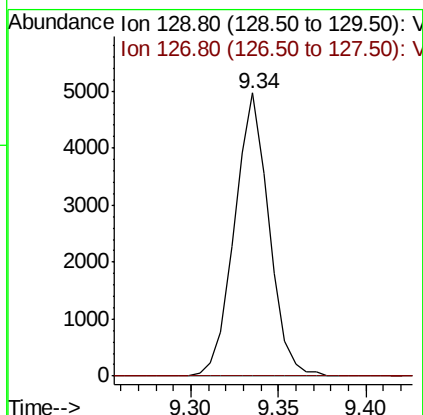
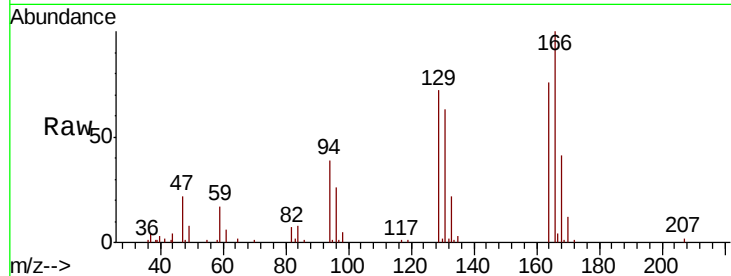




#60
 Dibromochloromethane
 Concen: 3.124 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

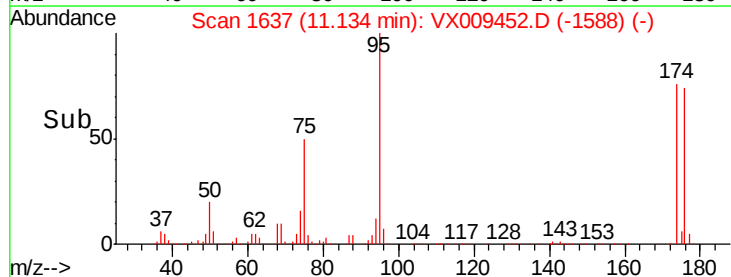
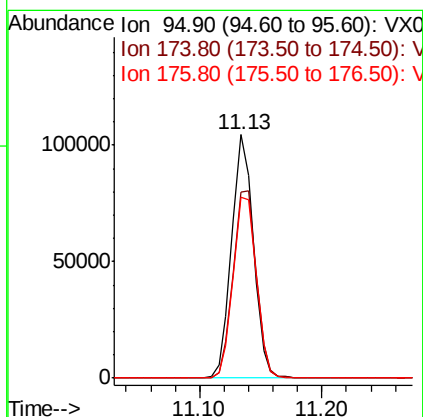
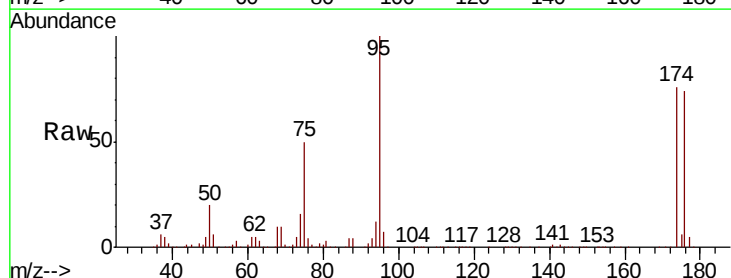
Instrument :
 MSVOA_X
 ClientSampled :

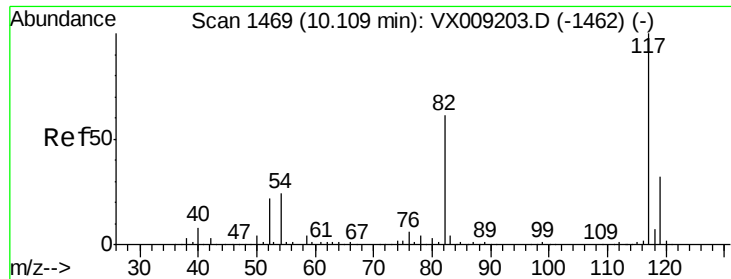
Tot Ion:129 Resp: 6792
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.4 115.1#



#62
 4-Bromofluorobenzene
 Concen: 44.646 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009452.D
 Acq: 10 May 2019 01:30

Tgt Ion: 95 Resp: 128497
 Ion Ratio Lower Upper
 95 100
 174 82.2 0.0 161.6
 176 79.7 0.0 159.2

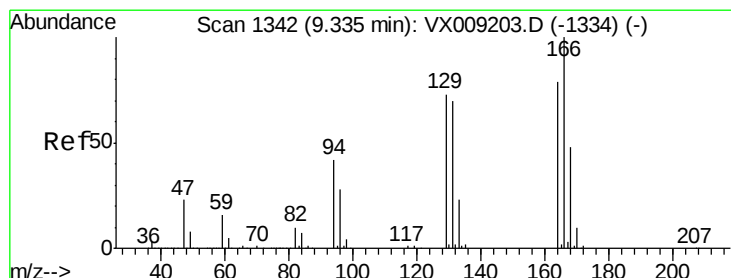
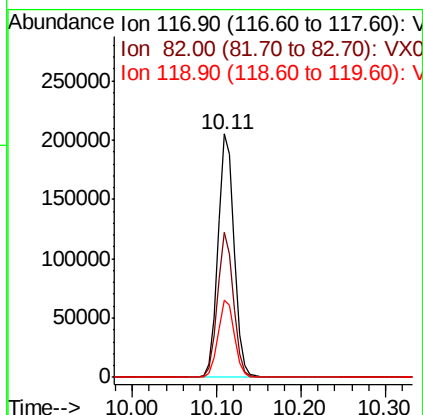
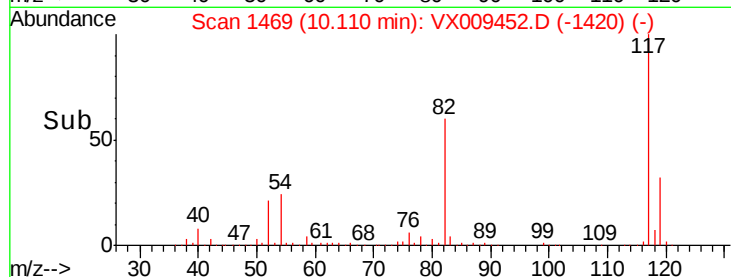
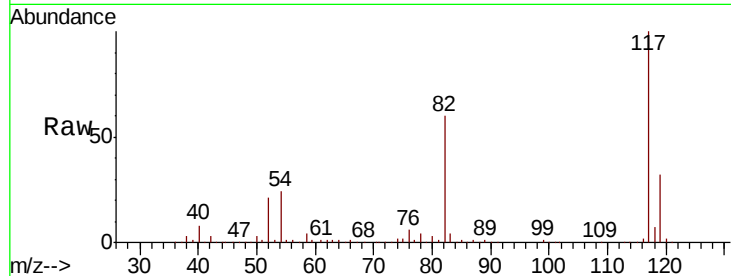




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009452.D
Acq: 10 May 2019 01:30

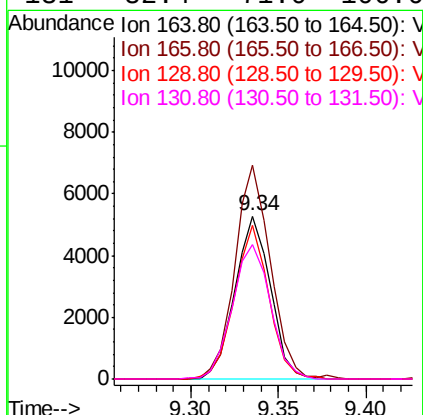
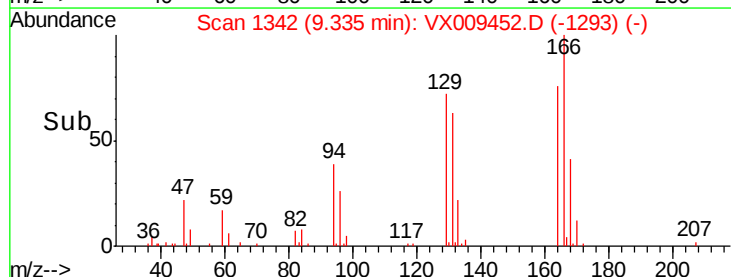
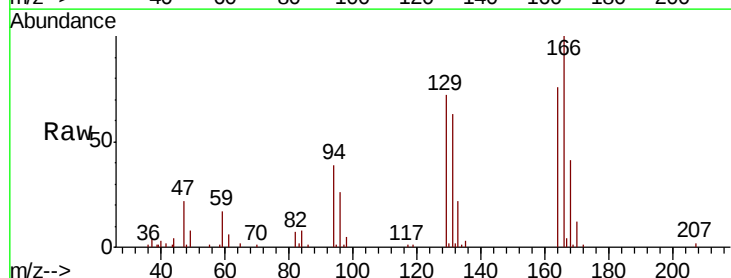
Instrument :
MSVOA_X
ClientSampleId :

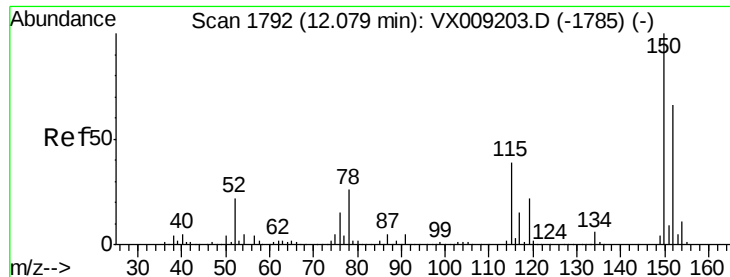
Tot Ion:117 Resp: 273243
Ion Ratio Lower Upper
117 100
82 59.5 48.8 73.2
119 31.7 25.8 38.6



#64
Tetrachloroethene
Concen: 3.982 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009452.D
Acq: 10 May 2019 01:30

Tgt Ion:164 Resp: 7463
Ion Ratio Lower Upper
164 100
166 130.9 101.2 151.8
129 93.8 74.3 111.5
131 82.4 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009452.D

Acq: 10 May 2019 01:30

Instrument :

MSVOA_X

ClientSampleId :

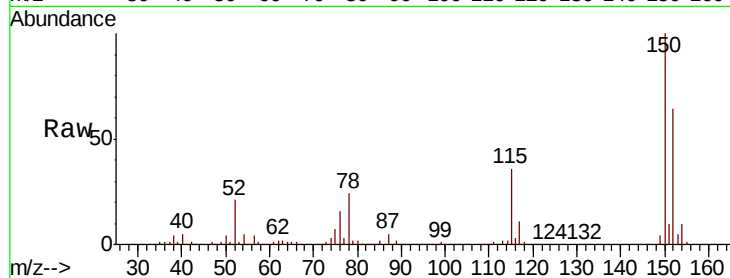
Tot Ion:152 Resp: 117895

Ion Ratio Lower Upper

152 100

115 57.9 41.2 123.6

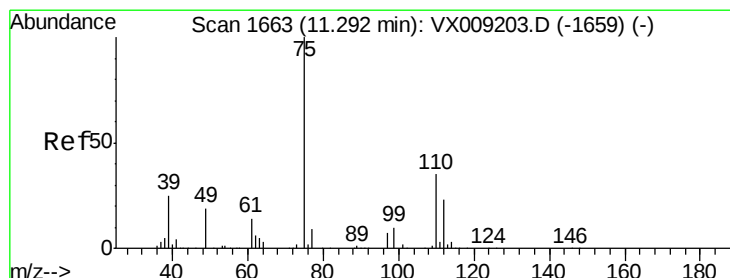
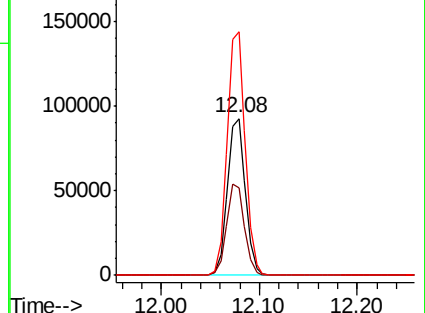
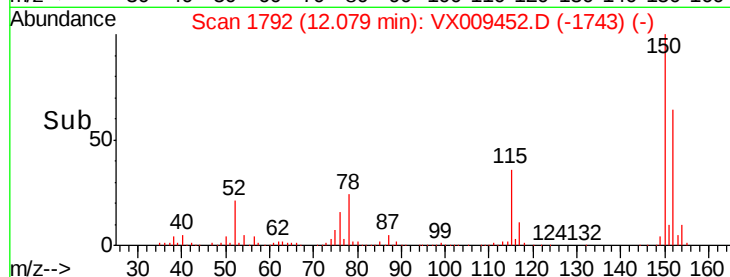
150 155.7 0.0 346.4



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: 23.851 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009452.D

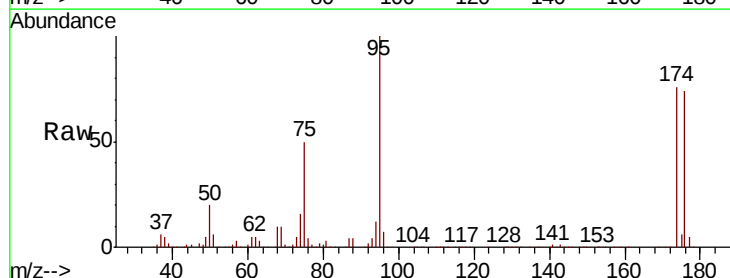
Acq: 10 May 2019 01:30

Tgt Ion: 75 Resp: 65225

Ion Ratio Lower Upper

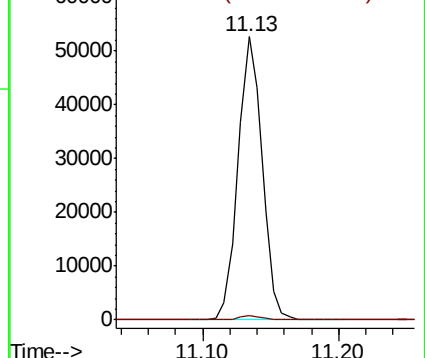
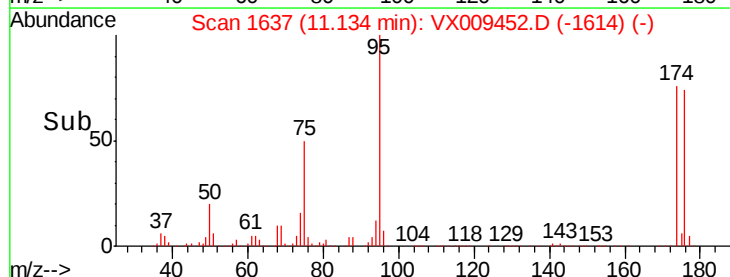
75 100

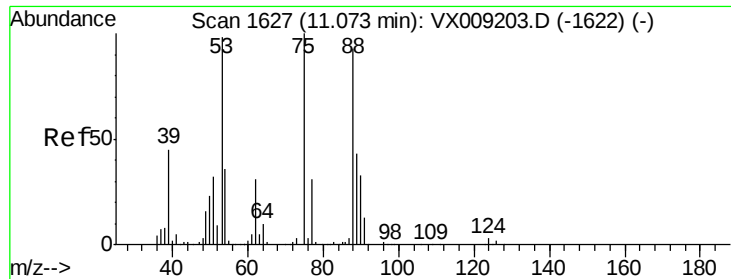
77 1.4 22.1 66.1#



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: 61.025 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009452.D

Acq: 10 May 2019 01:30

Instrument :

MSVOA_X

ClientSampleId :

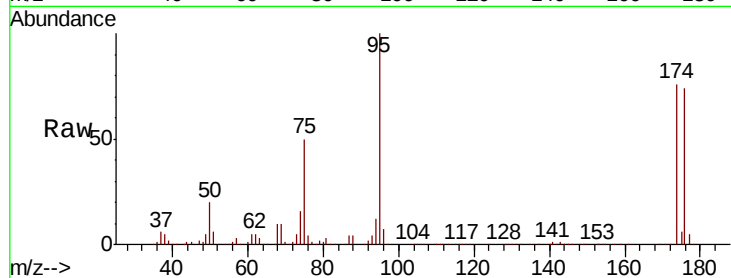
Tot Ion: 75 Resp: 65225

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



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

