

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060319\
 Data File : VX010031.D
 Acq On : 03 Jun 2019 13:17
 Operator : JC/SP
 Sample : K3129-06DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 03:39:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	165443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	261549	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111390	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	109935	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
35) Dibromofluoromethane	5.50	113	79854	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
50) Toluene-d8	8.71	98	336047	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
62) 4-Bromofluorobenzene	11.13	95	119150	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	

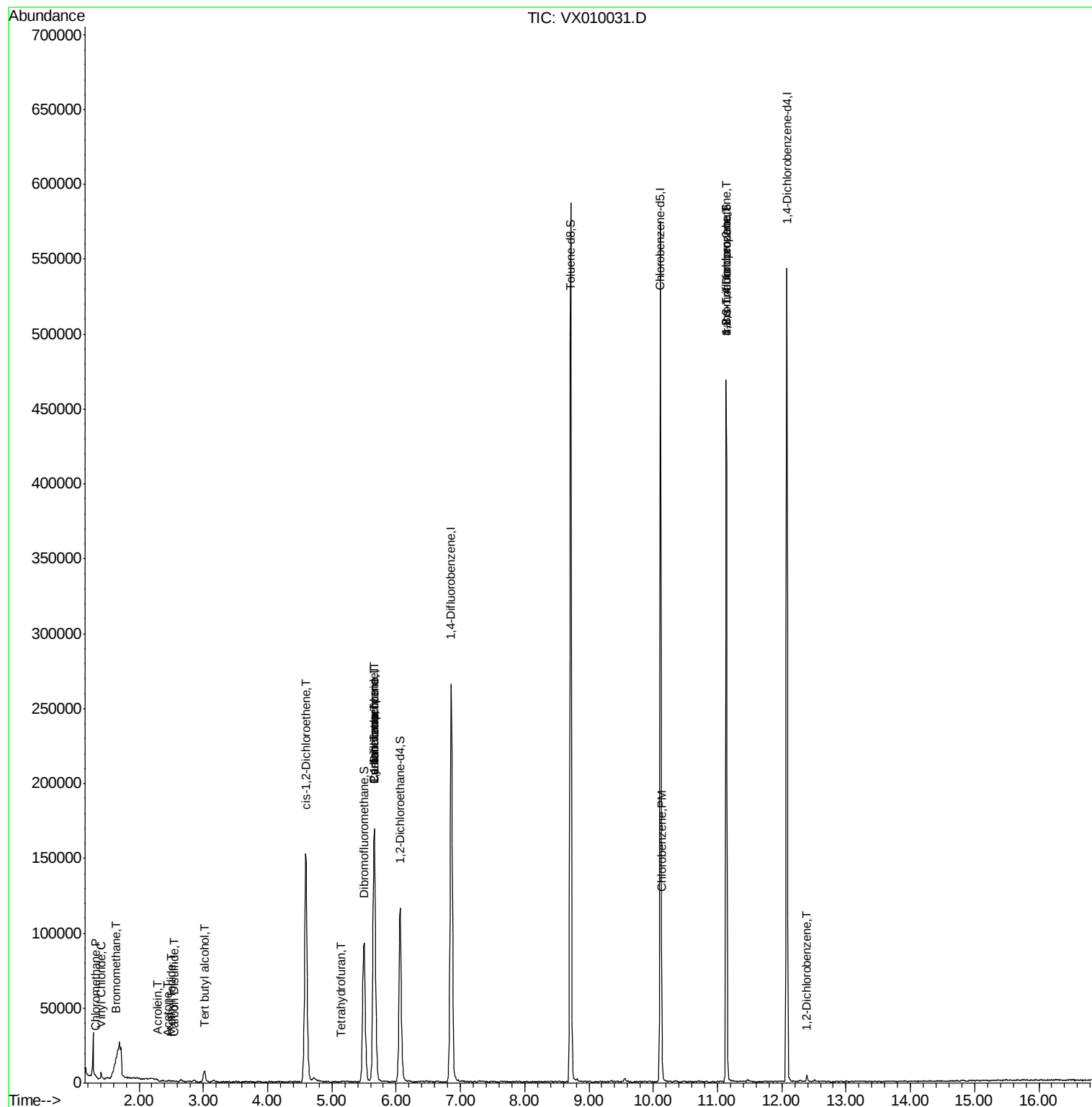
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	615	0.226	ug/l #	85
4) Vinyl Chloride	1.41	62	2606	1.064	ug/l #	86
5) Bromomethane	1.64	94	1115	0.751	ug/l	97
10) Methyl Iodide	2.50	142	375	4.825	ug/l #	86
11) Tert butyl alcohol	3.01	59	4411	7.669	ug/l #	73
13) Acrolein	2.29	56	131	21.391	ug/l #	65
16) Acetone	2.45	43	726	0.538	ug/l	92
17) Carbon Disulfide	2.56	76	668	0.515	ug/l #	53
27) cis-1,2-Dichloroethene	4.59	96	94506	43.916	ug/l	87
29) Tetrahydrofuran	5.14	42	296	0.219	ug/l #	39
31) Cyclohexane	5.66	56	3781	1.063	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	12376	4.664	ug/l #	51
38) Carbon Tetrachloride	5.65	117	15151	6.607	ug/l #	16
65) Chlorobenzene	10.13	112	2985	0.583	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	61110	22.942	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61110	56.762	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	1136	0.309	ug/l	95

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

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QLast Update : Wed May 29 04:00:56 2019
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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: VX010031.D

Acq: 03 Jun 2019 13:17

Instrument :

MSVOA_X

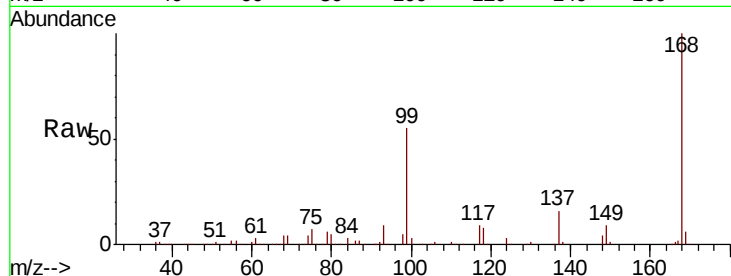
ClientSampleId :

Tot Ion:168 Resp: 165443

Ion Ratio Lower Upper

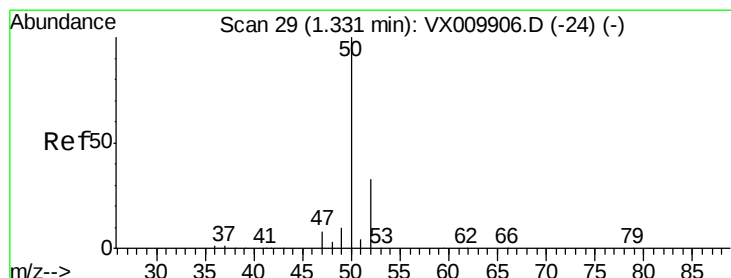
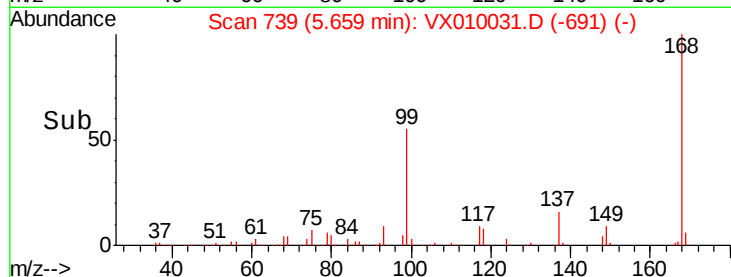
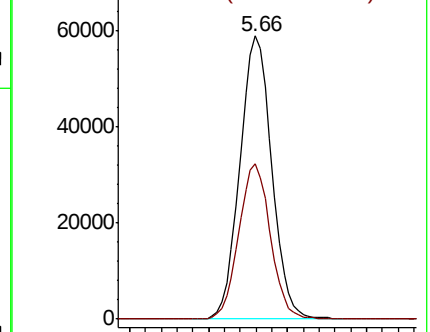
168 100

99 54.8 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.226 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX010031.D

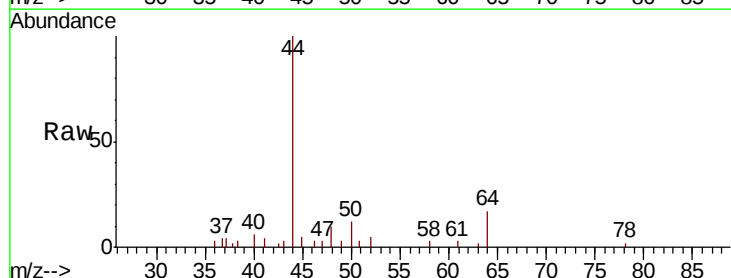
Acq: 03 Jun 2019 13:17

Tgt Ion: 50 Resp: 615

Ion Ratio Lower Upper

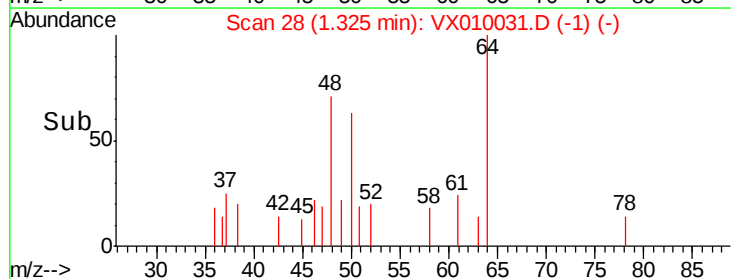
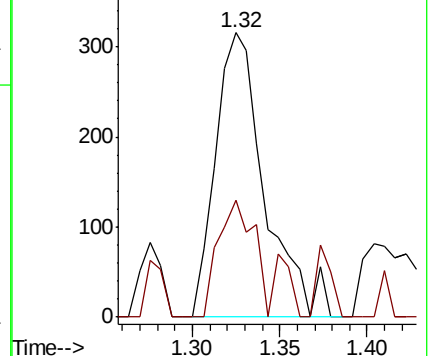
50 100

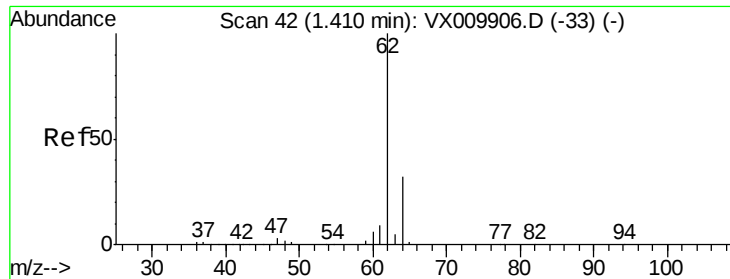
52 41.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 1.064 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010031.D

Acq: 03 Jun 2019 13:17

Instrument :

MSVOA_X

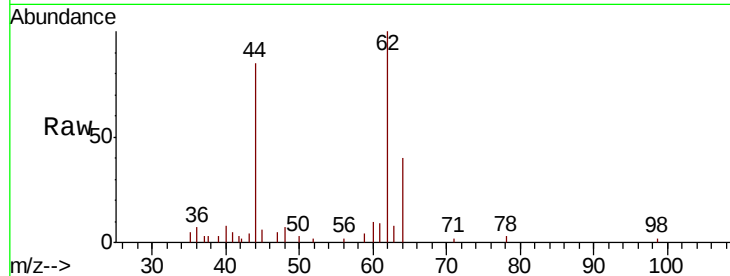
ClientSampled :

Tot Ion: 62 Resp: 2606

Ion Ratio Lower Upper

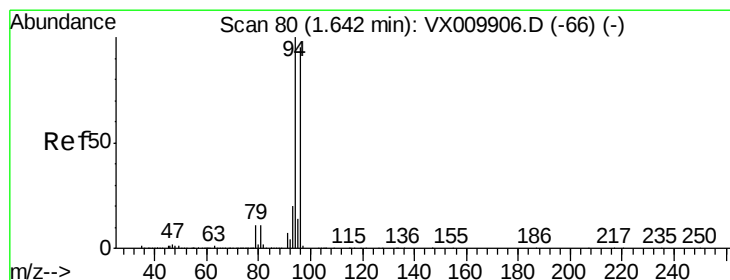
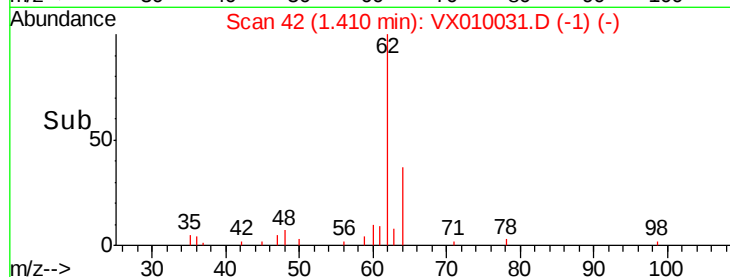
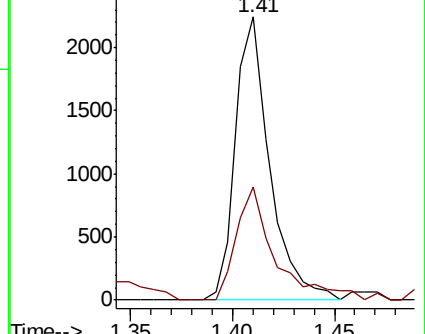
62 100

64 39.8 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.751 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX010031.D

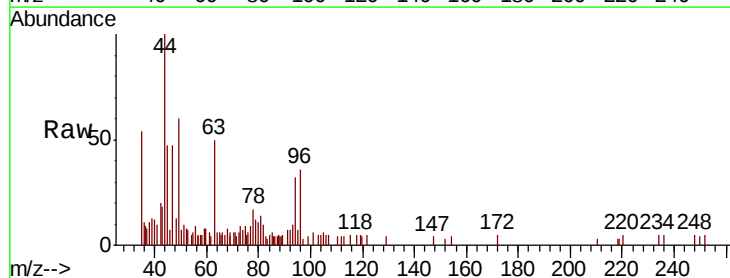
Acq: 03 Jun 2019 13:17

Tgt Ion: 94 Resp: 1115

Ion Ratio Lower Upper

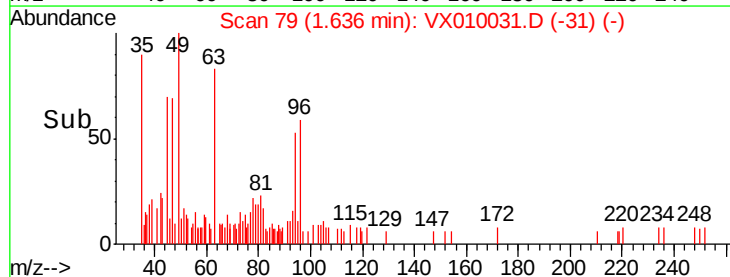
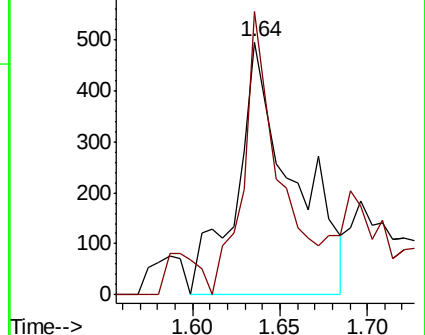
94 100

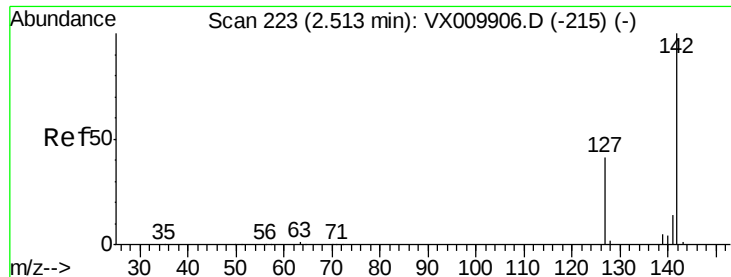
96 98.2 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

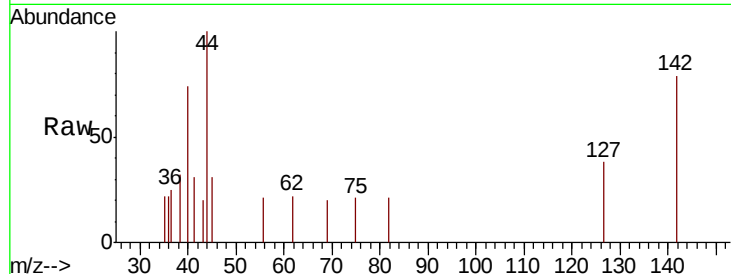




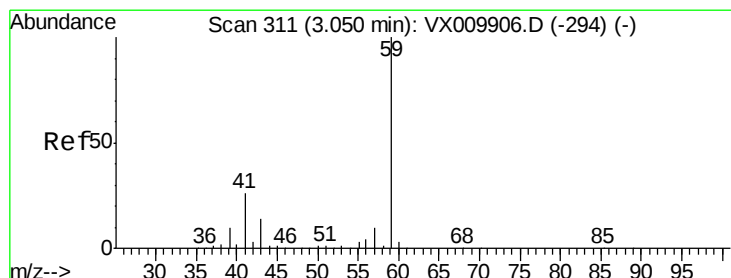
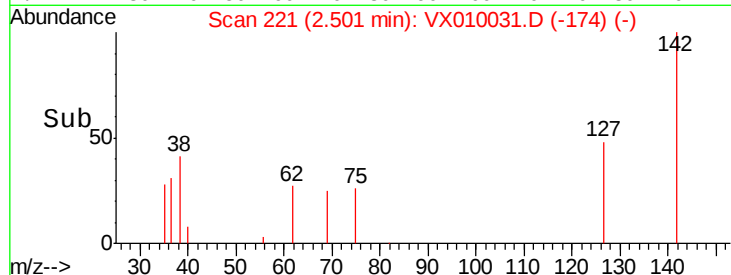
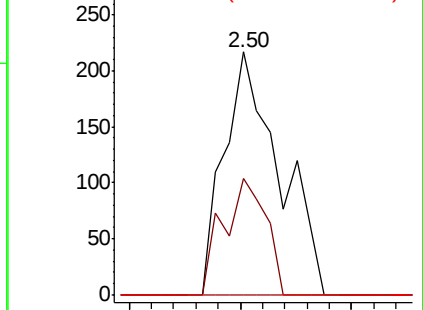
#10
Methvl Iodide
Concen: 4.825 ug/l
RT: 2.50 min Scan# 221
Delta R.T. -0.01 min
Lab File: VX010031.D
Acq: 03 Jun 2019 13:17

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 375
Ion Ratio Lower Upper
142 100
127 37.1 33.0 49.4
141 0.0 11.4 17.0#

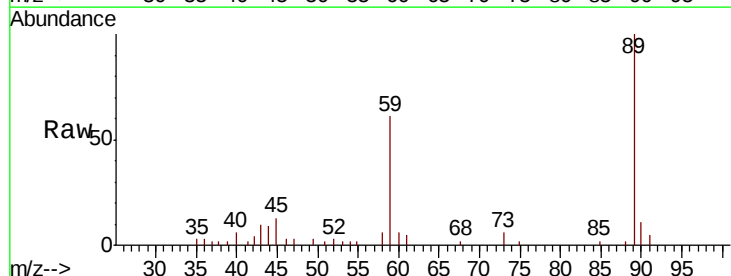


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

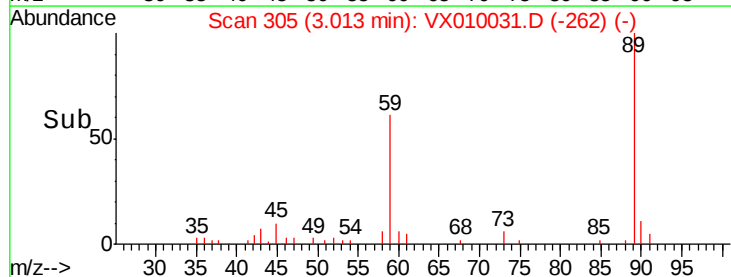
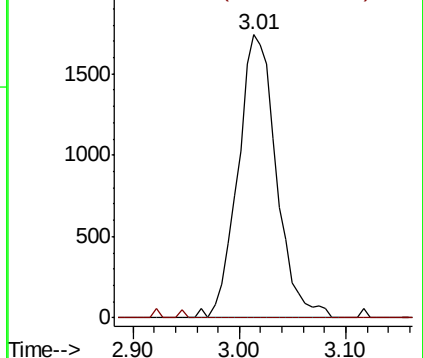


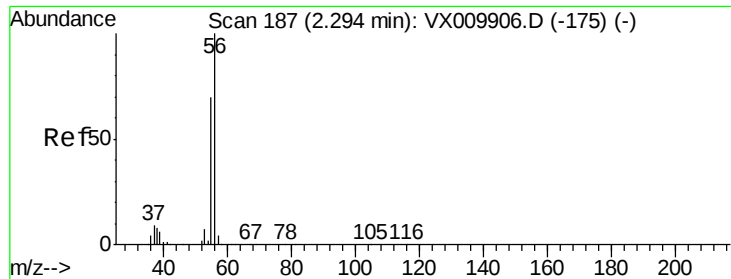
#11
Tert butyl alcohol
Concen: 7.669 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010031.D
Acq: 03 Jun 2019 13:17

Tgt Ion: 59 Resp: 4411
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 21.391 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010031.D

Acq: 03 Jun 2019 13:17

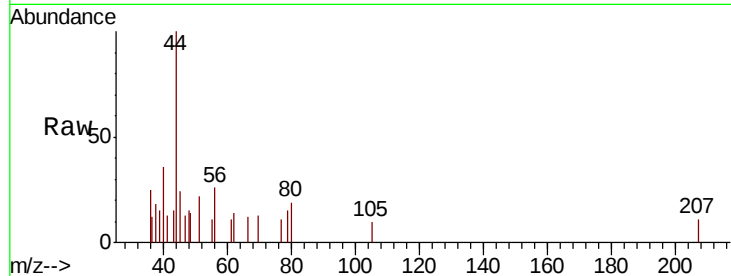
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 131

Ion Ratio Lower Upper

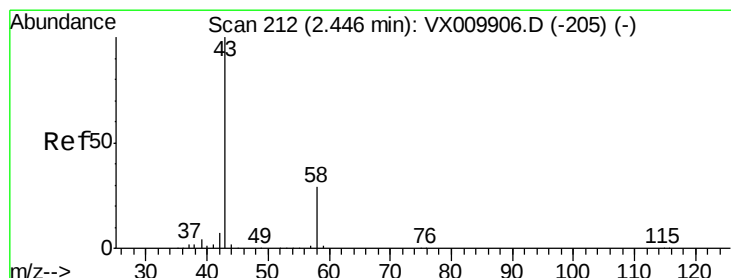
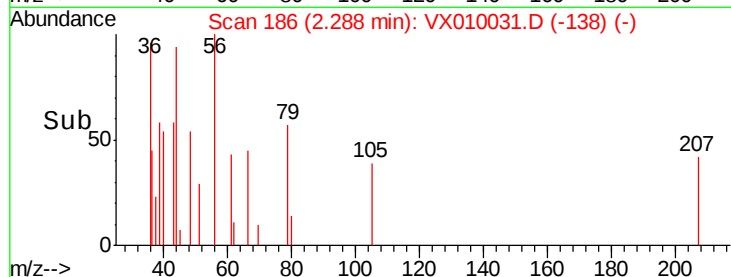
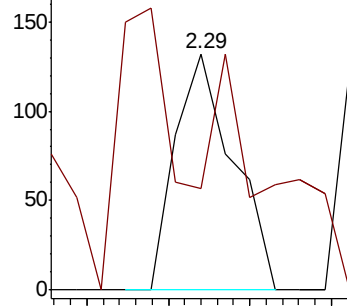
56 100

55 100.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.538 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010031.D

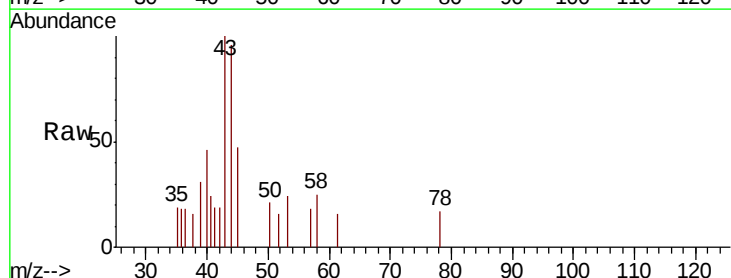
Acq: 03 Jun 2019 13:17

Tgt Ion: 43 Resp: 726

Ion Ratio Lower Upper

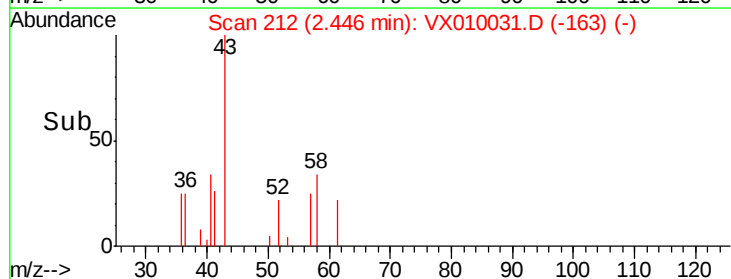
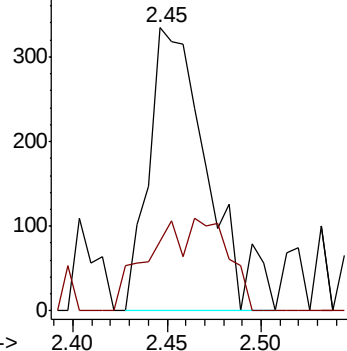
43 100

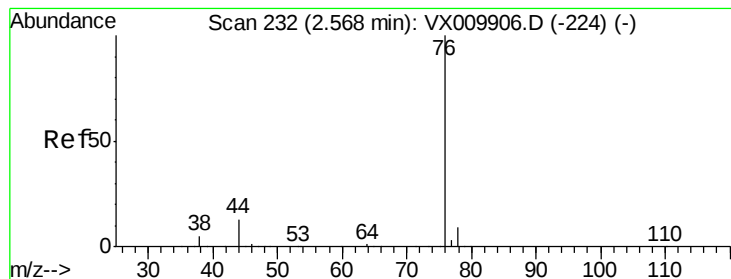
58 24.6 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.515 ug/l

RT: 2.56 min Scan# 230

Delta R.T. -0.01 min

Lab File: VX010031.D

Acq: 03 Jun 2019 13:17

Instrument :

MSVOA_X

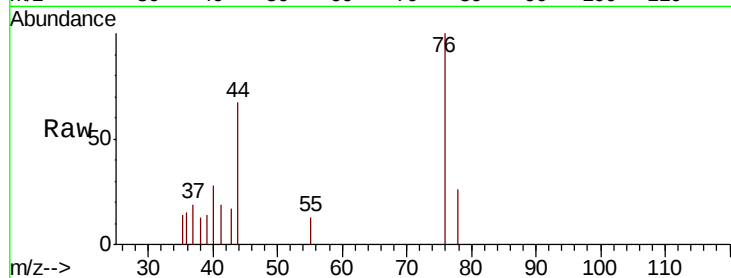
ClientSampleId :

Tot Ion: 76 Resp: 668

Ion Ratio Lower Upper

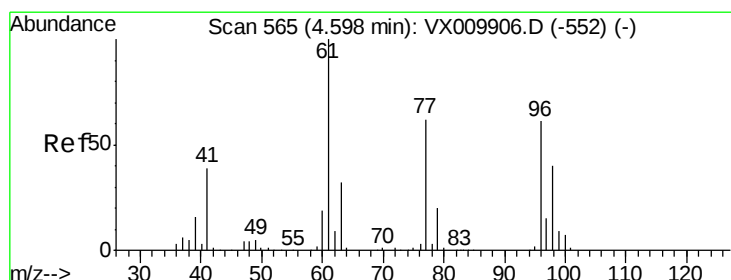
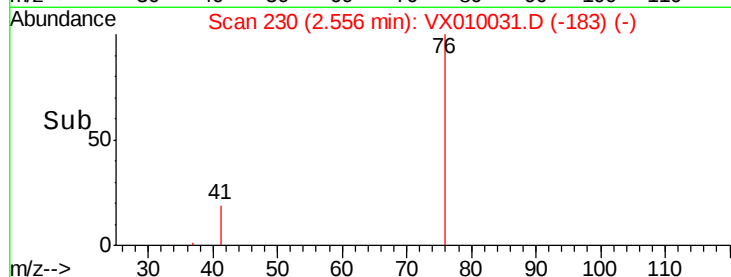
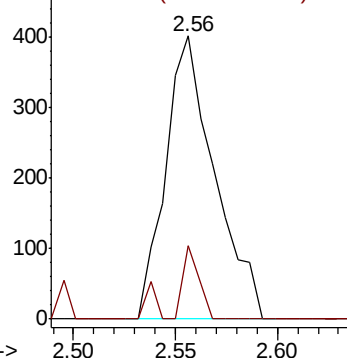
76 100

78 25.9 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 43.916 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX010031.D

Acq: 03 Jun 2019 13:17

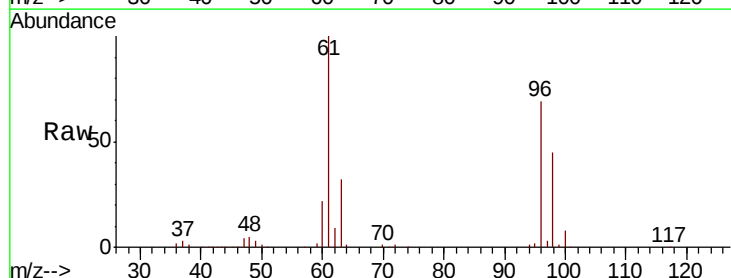
Tgt Ion: 96 Resp: 94506

Ion Ratio Lower Upper

96 100

61 142.8 0.0 334.0

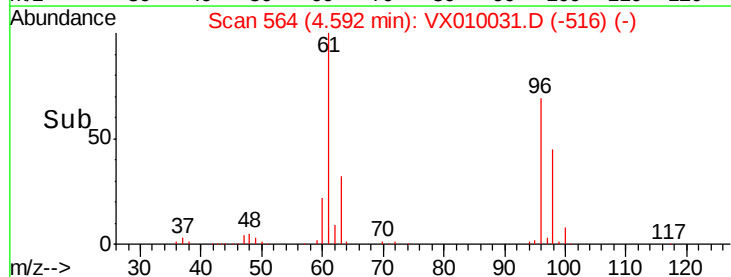
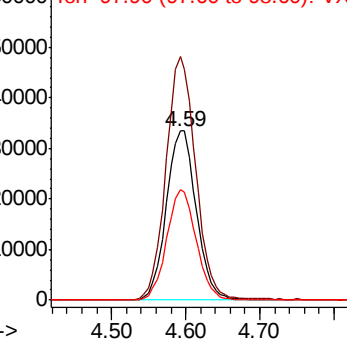
98 64.4 0.0 131.6

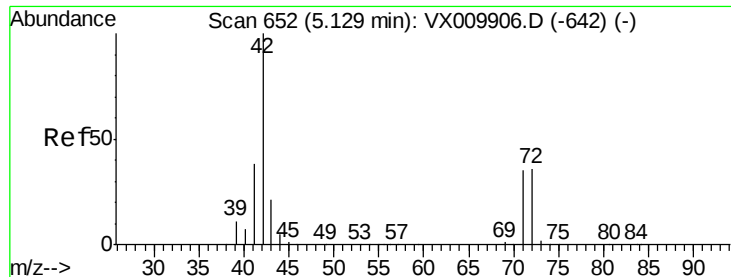


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

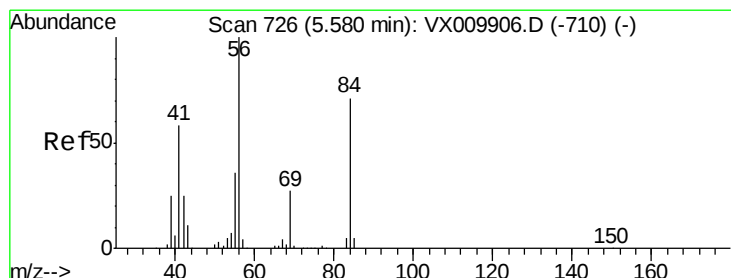
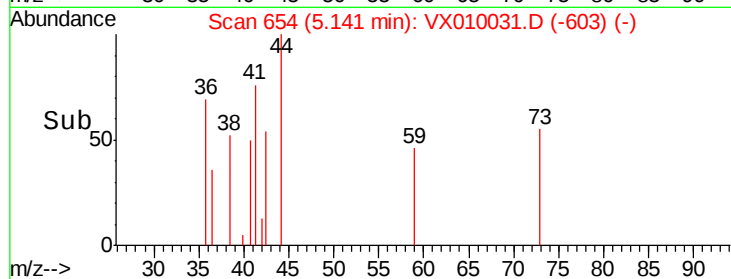
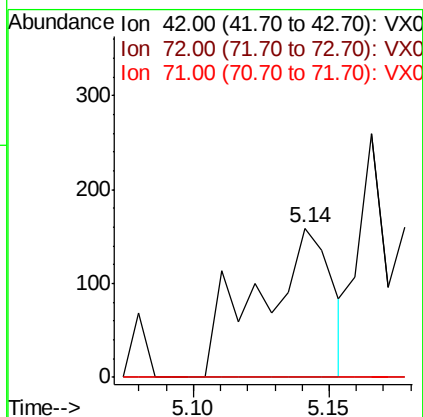
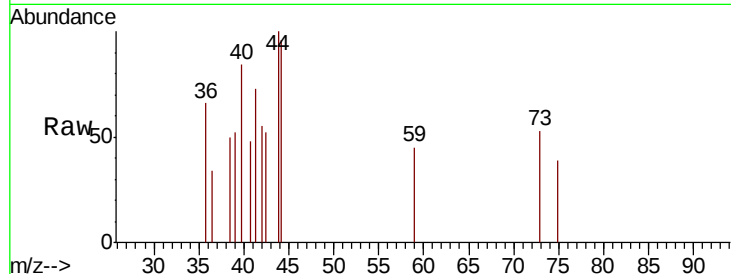




#29
Tetrahydrofuran
Concen: 0.219 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX010031.D
Acq: 03 Jun 2019 13:17

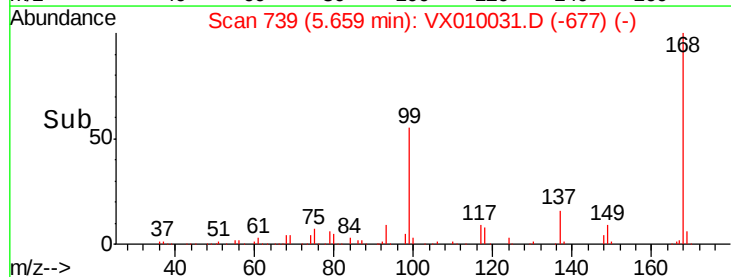
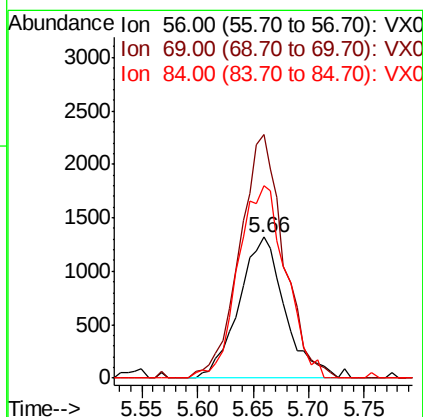
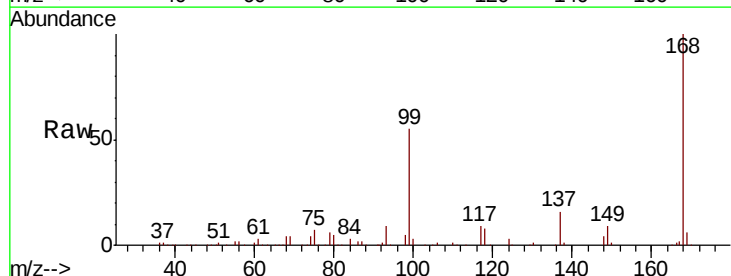
Instrument :
MSVOA_X
ClientSampled :

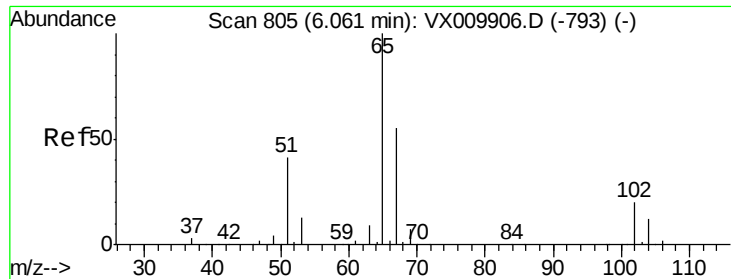
Tot Ion: 42 Resp: 296
Ion Ratio Lower Upper
42 100
72 0.0 29.2 43.8#
71 0.0 27.6 41.4#



#31
Cyclohexane
Concen: 1.063 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX010031.D
Acq: 03 Jun 2019 13:17

Tgt Ion: 56 Resp: 3781
Ion Ratio Lower Upper
56 100
69 172.4 21.6 32.4#
84 136.7 56.8 85.2#

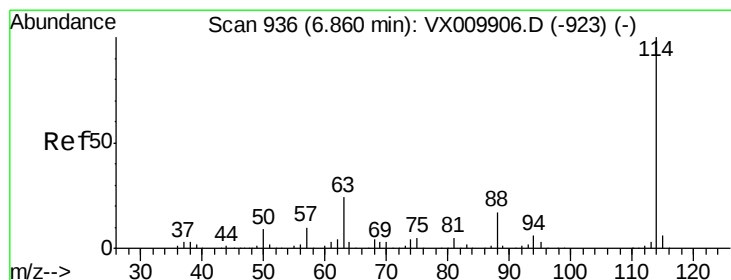
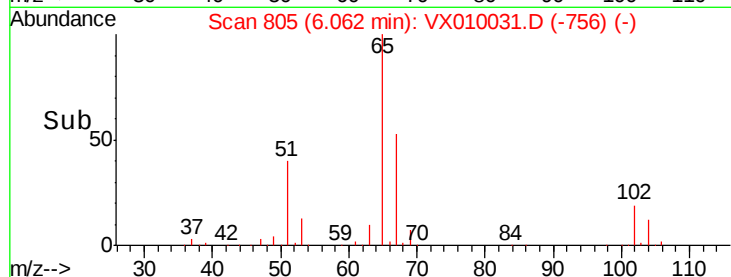
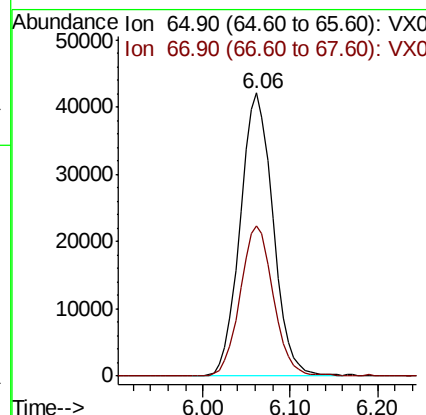
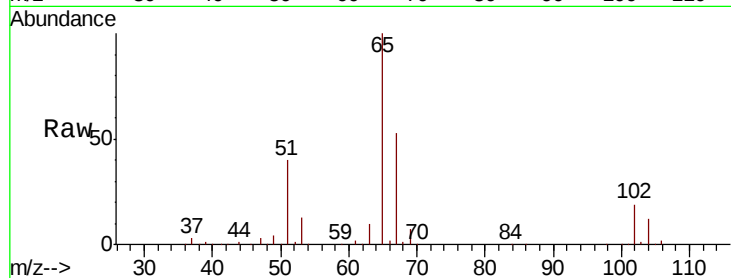




#33
 1,2-Dichloroethane-d4
 Concen: 47.041 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010031.D
 Acq: 03 Jun 2019 13:17

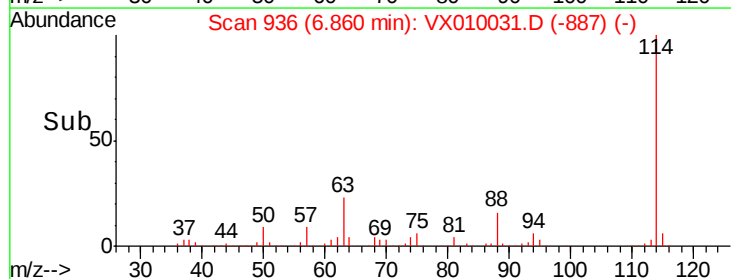
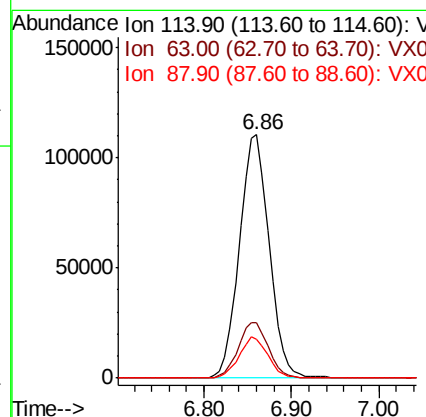
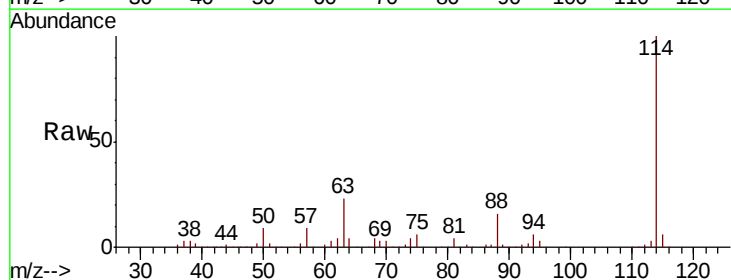
Instrument :
 MSVOA_X
 ClientSampleId :

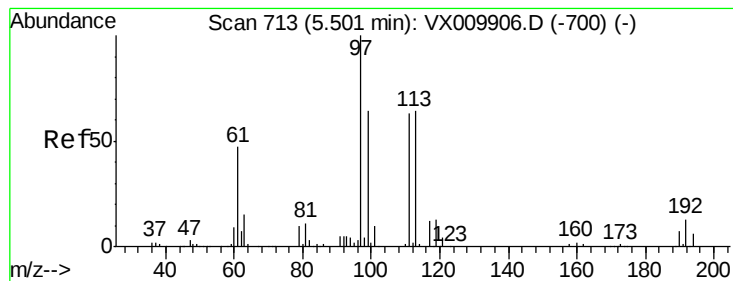
Tot Ion: 65 Resp: 109935
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010031.D
 Acq: 03 Jun 2019 13:17

Tgt Ion: 114 Resp: 261549
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 47.4
 88 16.0 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.562 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010031.D

Acq: 03 Jun 2019 13:17

Instrument :

MSVOA_X

ClientSampleId :

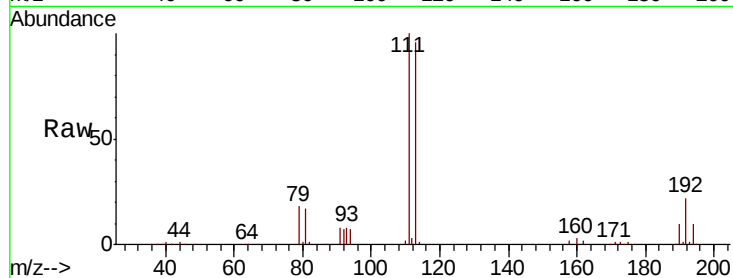
Tot Ion:113 Resp: 79854

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.2

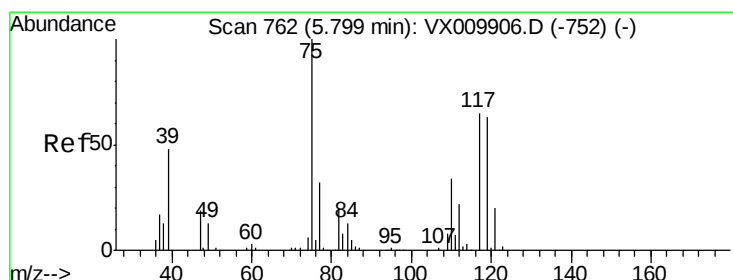
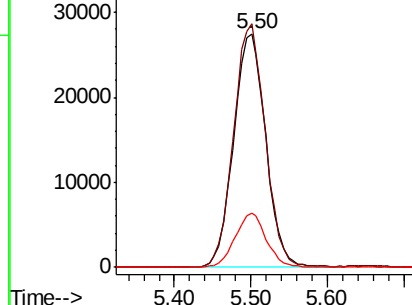
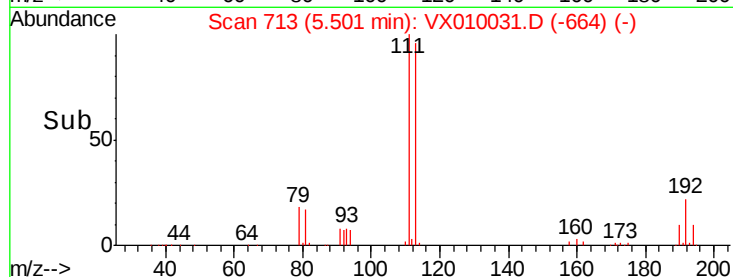
192 22.4 17.1 25.7



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: 4.664 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010031.D

Acq: 03 Jun 2019 13:17

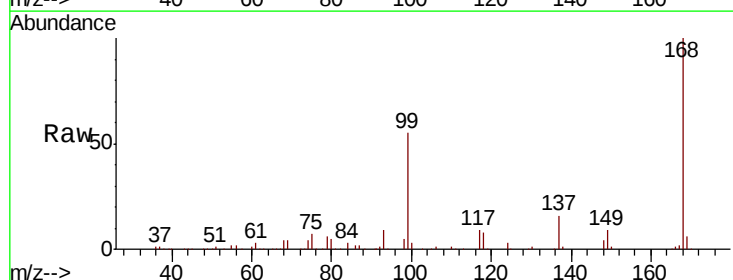
Tgt Ion: 75 Resp: 12376

Ion Ratio Lower Upper

75 100

110 9.3 16.7 50.1#

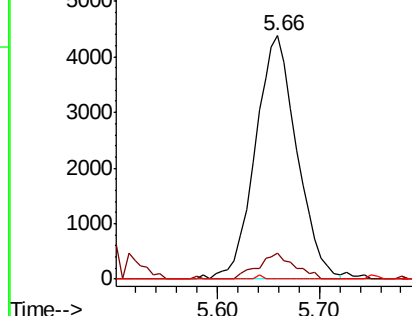
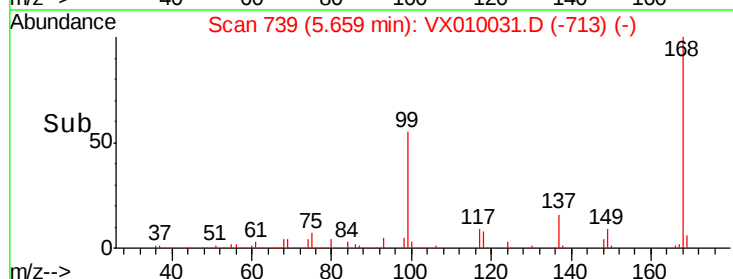
77 0.2 25.0 37.4#

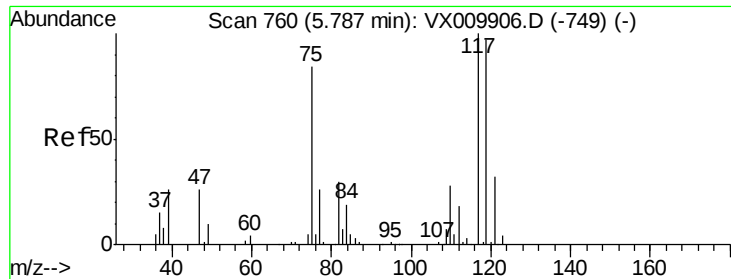


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

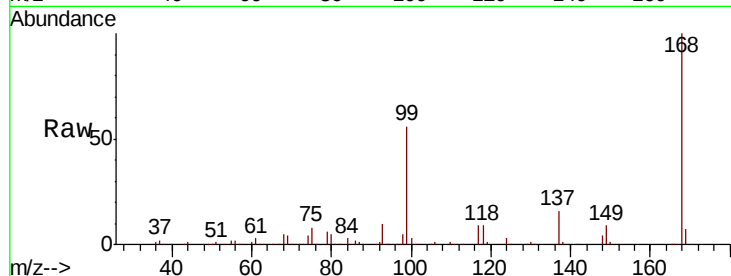




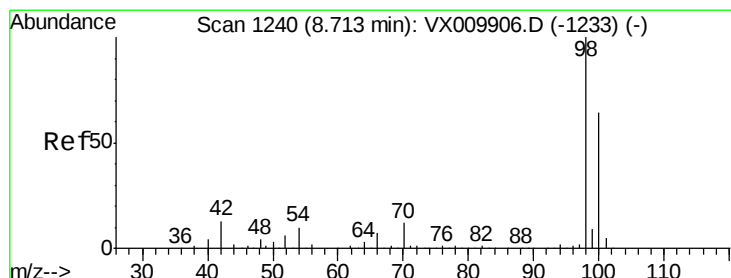
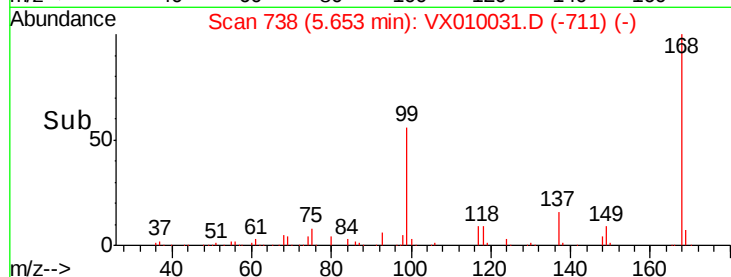
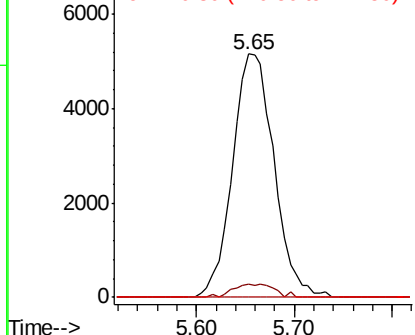
#38
Carbon Tetrachloride
Concen: 6.607 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX010031.D
Acq: 03 Jun 2019 13:17

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 15151
Ion Ratio Lower Upper
117 100
119 5.3 77.3 115.9#
121 0.0 25.4 38.0#

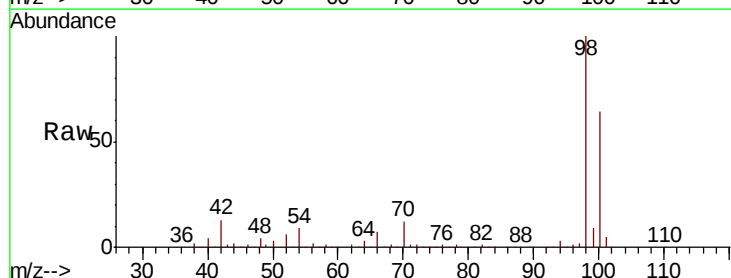


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

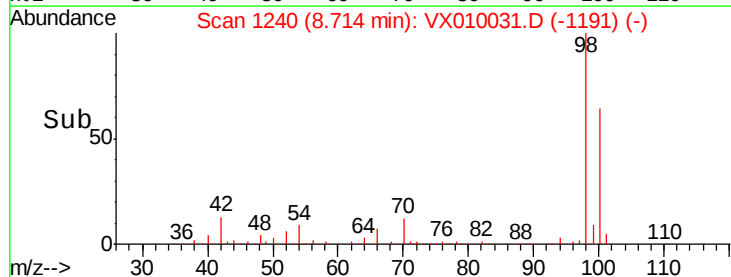
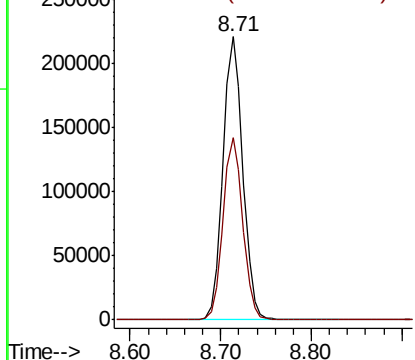


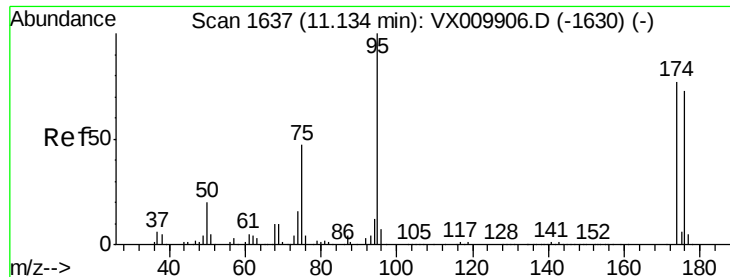
#50
Toluene-d8
Concen: 50.326 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010031.D
Acq: 03 Jun 2019 13:17

Tgt Ion: 98 Resp: 336047
Ion Ratio Lower Upper
98 100
100 64.1 51.5 77.3



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





#62

4-Bromofluorobenzene

Concen: 49.679 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010031.D

Acq: 03 Jun 2019 13:17

Instrument :

MSVOA_X

ClientSampleId :

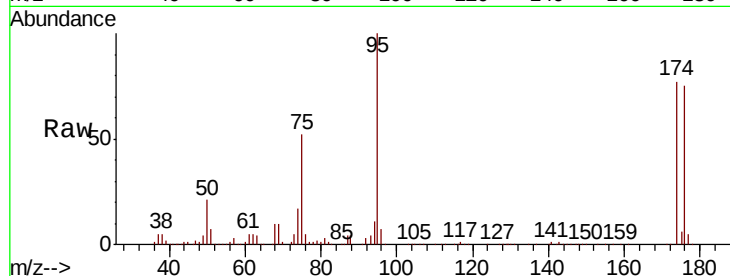
Tot Ion: 95 Resp: 119150

Ion Ratio Lower Upper

95 100

174 82.1 0.0 160.4

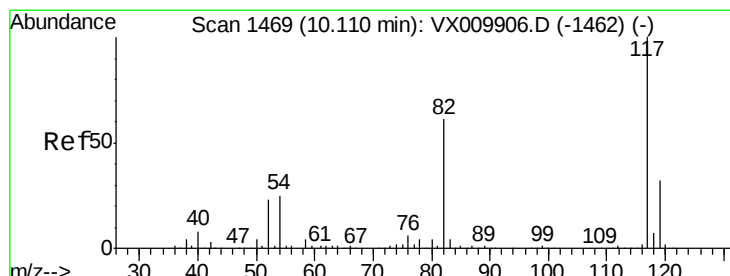
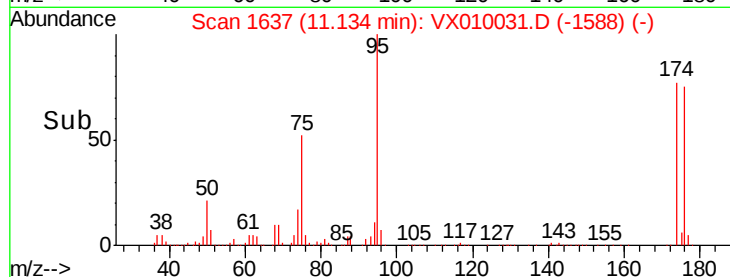
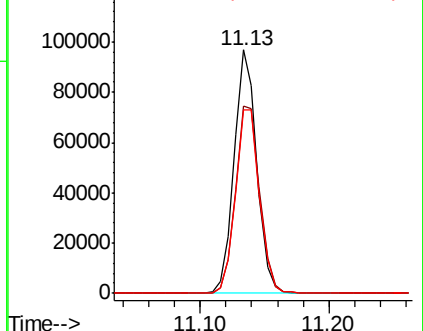
176 80.1 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010031.D

Acq: 03 Jun 2019 13:17

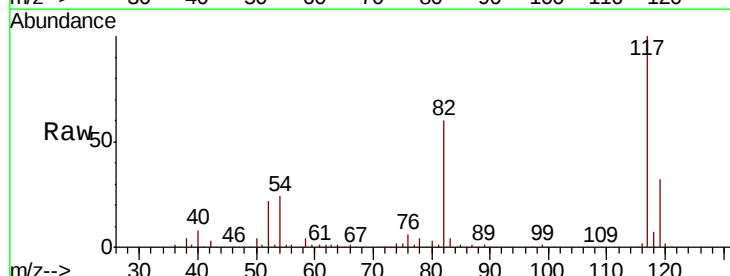
Tgt Ion: 117 Resp: 244598

Ion Ratio Lower Upper

117 100

82 60.4 49.2 73.8

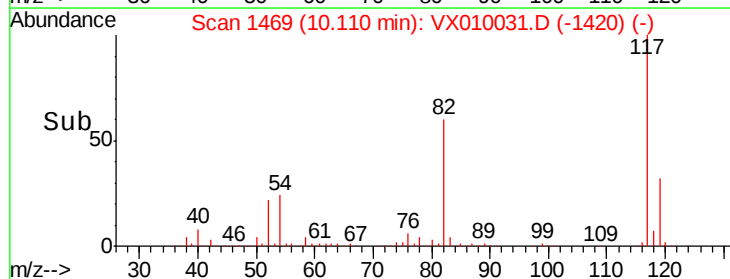
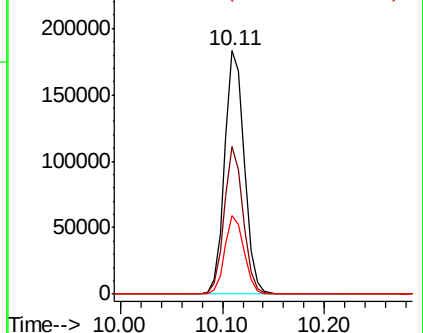
119 32.0 25.2 37.8

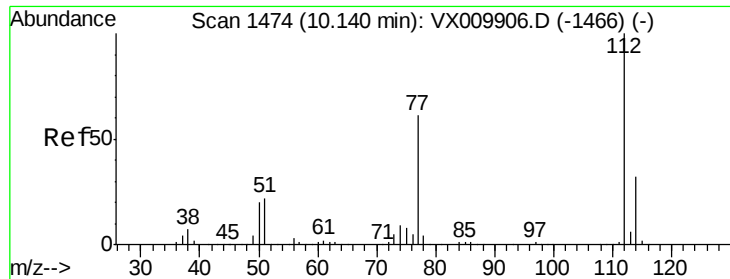


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

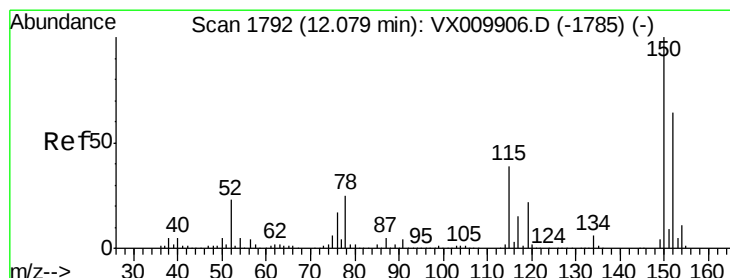
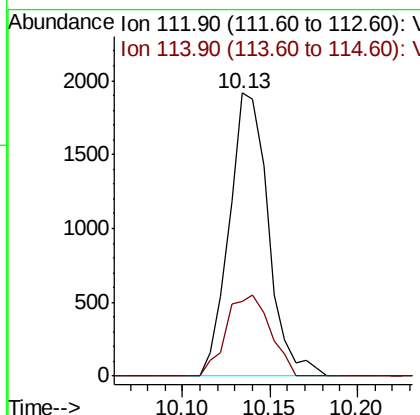
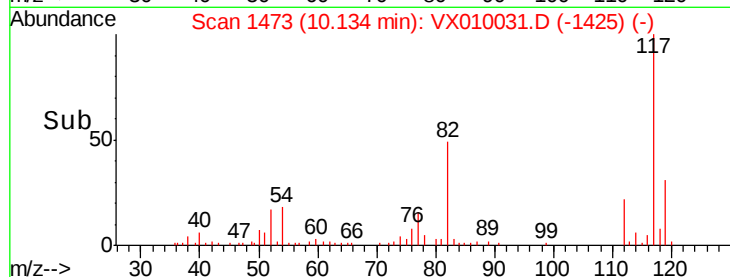
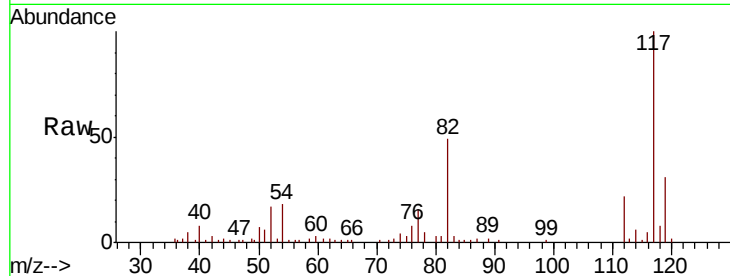




#65
Chlorobenzene
Concen: 0.583 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX010031.D
Acq: 03 Jun 2019 13:17

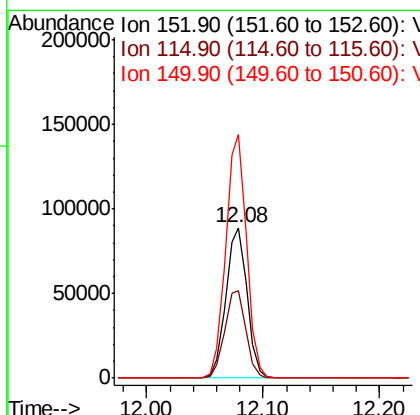
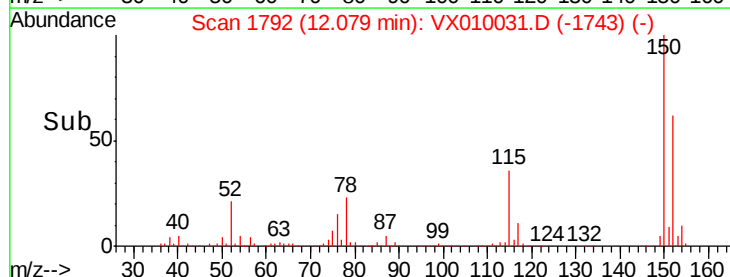
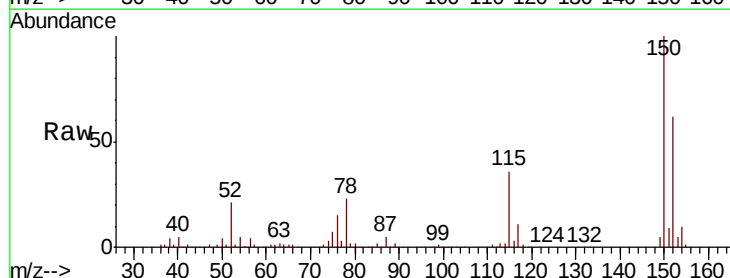
Instrument :
MSVOA_X
ClientSampled :

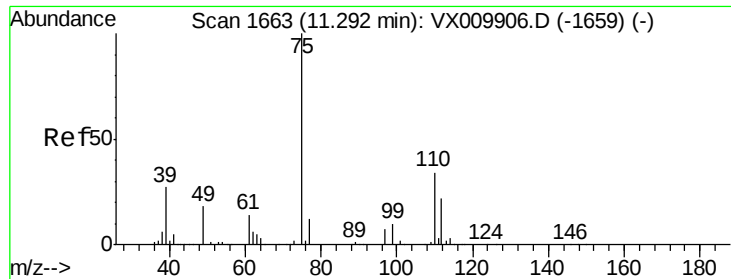
Tot Ion:112 Resp: 2985
Ion Ratio Lower Upper
112 100
114 26.6 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010031.D
Acq: 03 Jun 2019 13:17

Tgt Ion:152 Resp: 111390
Ion Ratio Lower Upper
152 100
115 58.4 41.4 124.2
150 159.7 0.0 345.2

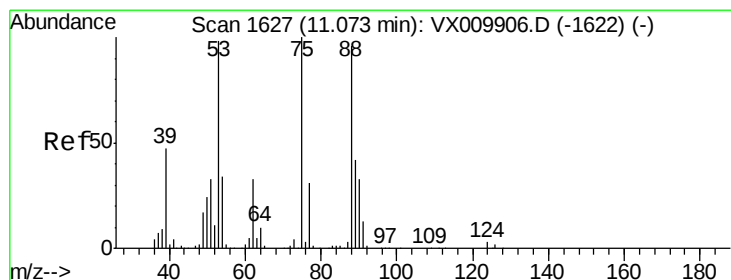
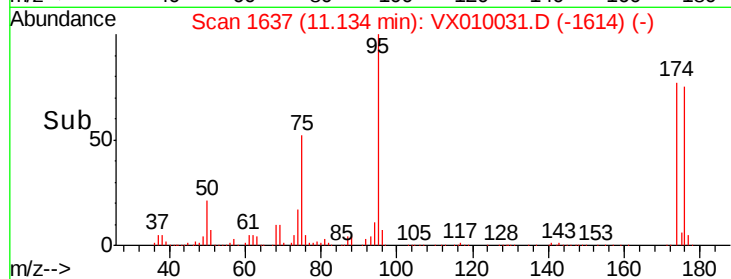
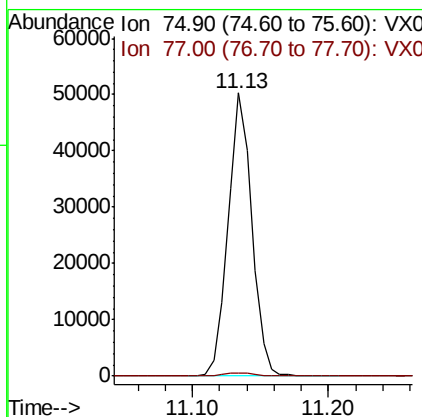
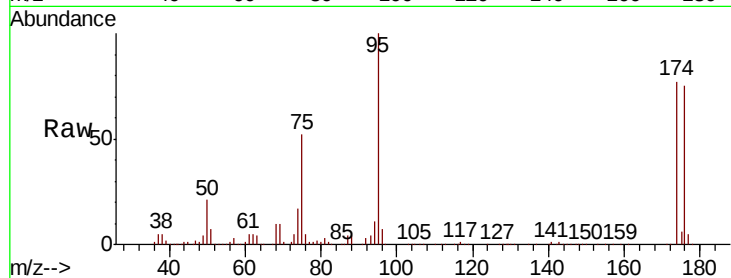




#76
 1,2,3-Trichloropropane
 Concen: 22.942 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010031.D
 Acq: 03 Jun 2019 13:17

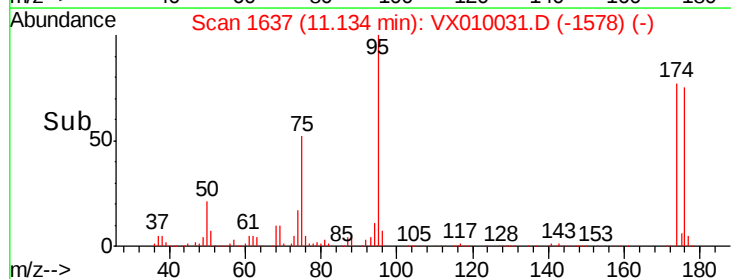
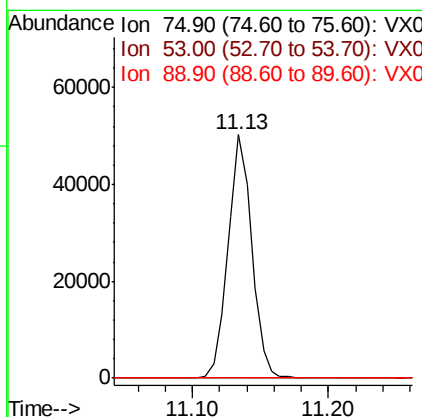
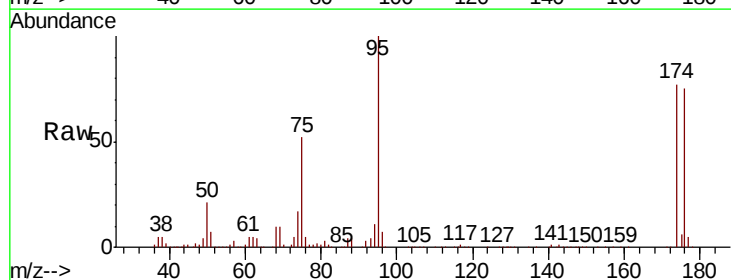
Instrument :
 MSVOA_X
 ClientSampleID :

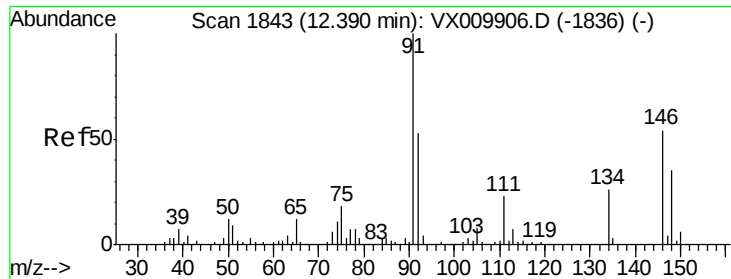
Tot Ion: 75 Resp: 61110
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.762 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010031.D
 Acq: 03 Jun 2019 13:17

Tgt Ion: 75 Resp: 61110
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.8 119.6#
 89 0.0 34.2 51.4#





#91
 1,2-Dichlorobenzene
 Concen: 0.309 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX010031.D
 Acq: 03 Jun 2019 13:17

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:146 Resp: 1136
 Ion Ratio Lower Upper
 146 100
 111 45.0 21.1 63.1
 148 60.8 32.3 96.8

