

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010262.D
 Acq On : 12 Jun 2019 19:41
 Operator : JC/SP
 Sample : K3315-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 01:29:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	301950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	461659	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	419938	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	195646	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	139165	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	
35) Dibromofluoromethane	5.50	113	140556	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
50) Toluene-d8	8.71	98	542064	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
62) 4-Bromofluorobenzene	11.13	95	185269	46.48	ug/l	0.00
Spiked Amount			Recovery	=	92.96%	

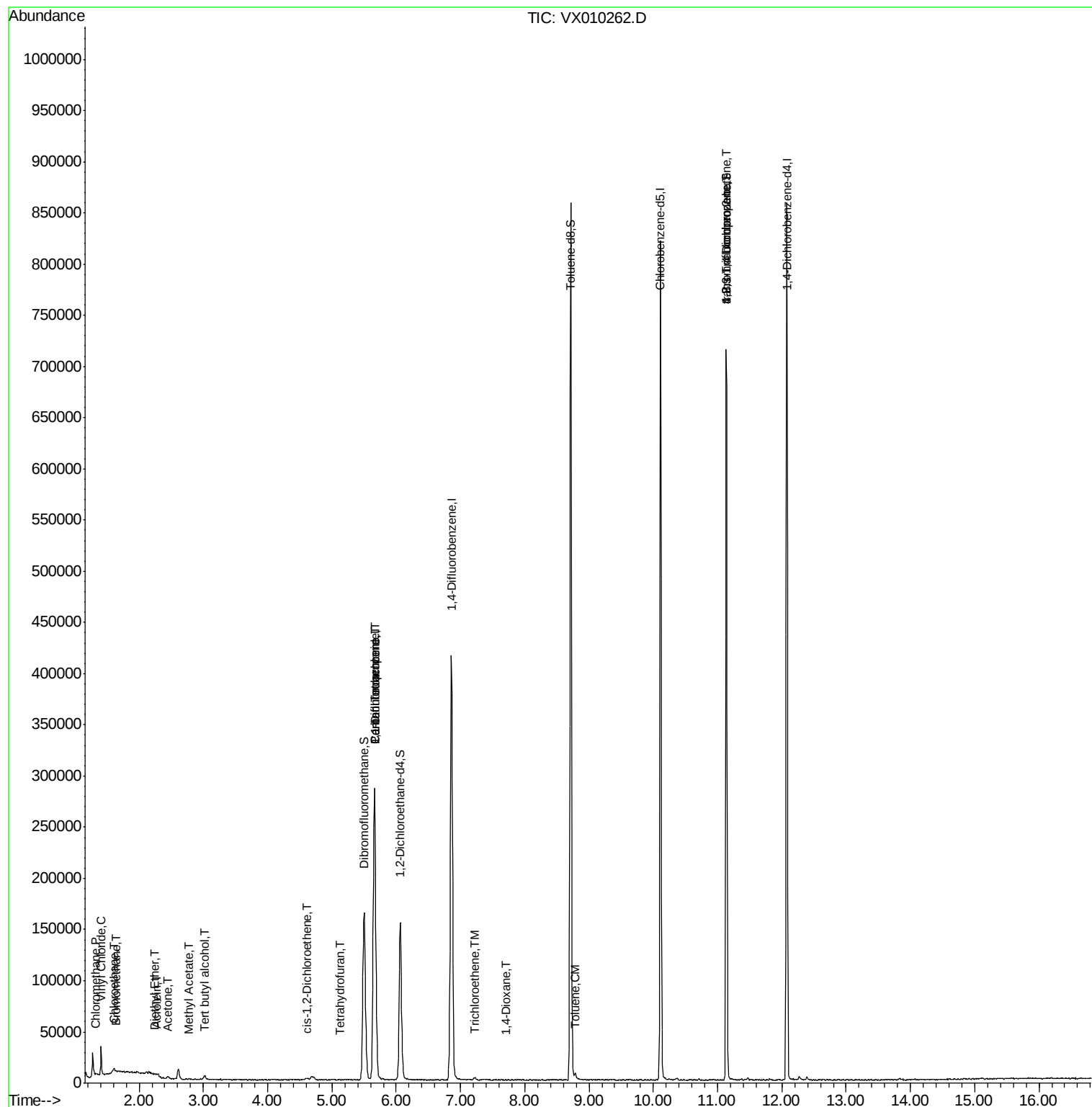
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	586	0.212	ug/l	99
4) Vinyl Chloride	1.41	62	18521	7.142	ug/l	95
5) Bromomethane	1.65	94	372	0.380	ug/l #	20
6) Chloroethane	1.60	64	884	0.676	ug/l #	64
8) Diethyl Ether	2.25	74	285	0.215	ug/l	54
11) Tert butyl alcohol	3.01	59	2449	3.392	ug/l	98
13) Acrolein	2.28	56	183	1.390	ug/l #	14
16) Acetone	2.45	43	2543	1.834	ug/l #	81
18) Methyl Acetate	2.77	43	740	0.243	ug/l #	86
27) cis-1,2-Dichloroethene	4.60	96	910	0.273	ug/l	40
29) Tetrahydrofuran	5.13	42	264	0.203	ug/l #	39
36) 1,1-Dichloropropene	5.66	75	17847	4.738	ug/l #	52
38) Carbon Tetrachloride	5.66	117	26163	6.137	ug/l #	16
44) Trichloroethene	7.23	130	780	0.222	ug/l	99
49) 1,4-Dioxane	7.71	88	19	0.217	ug/l #	1
52) Toluene	8.79	92	1608	0.210	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	85600	21.874	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	85600	48.329	ug/l #	10

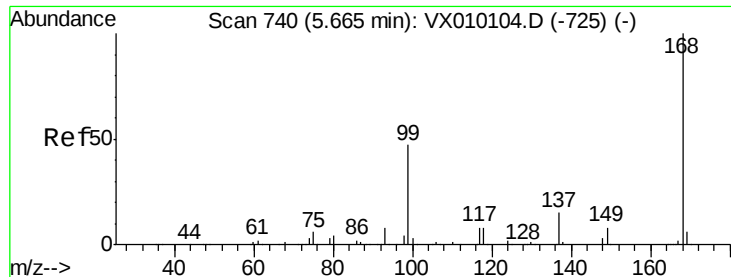
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

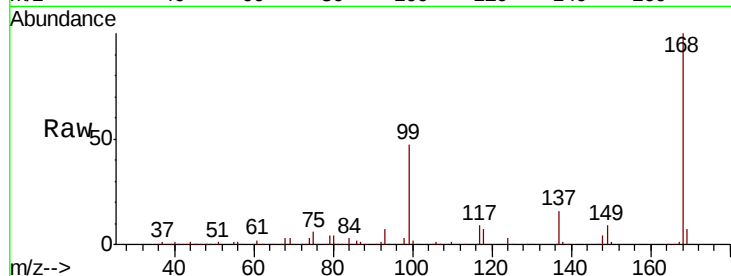
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 301950

Ion Ratio Lower Upper

168 100

99 46.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

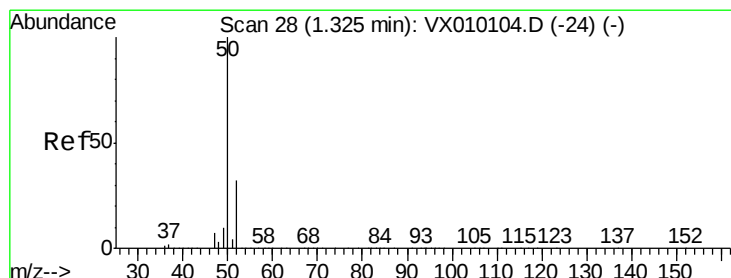
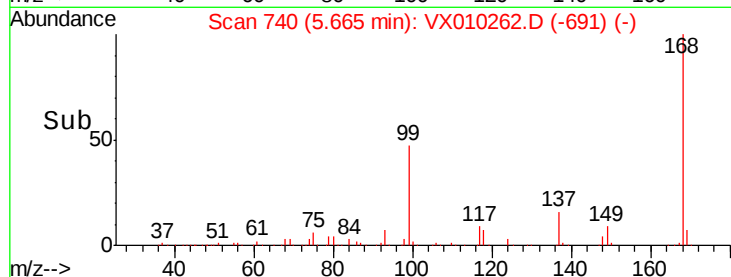
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.212 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX010262.D

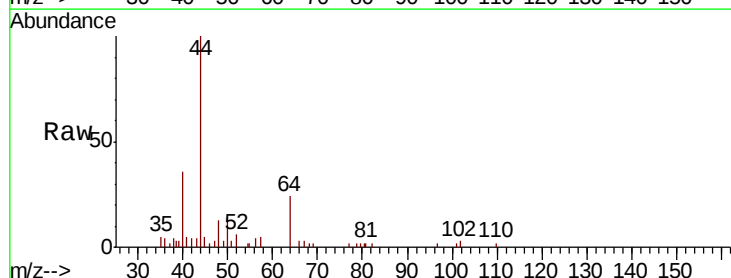
Acq: 12 Jun 2019 19:41

Tgt Ion: 50 Resp: 586

Ion Ratio Lower Upper

50 100

52 33.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

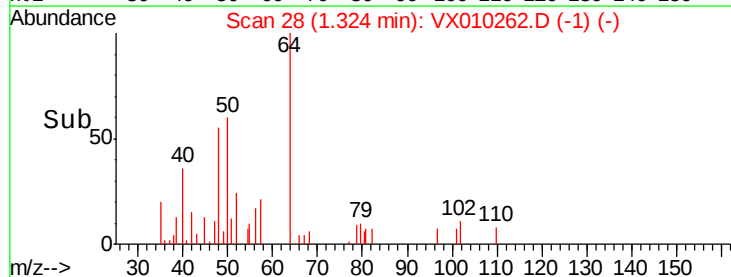
300

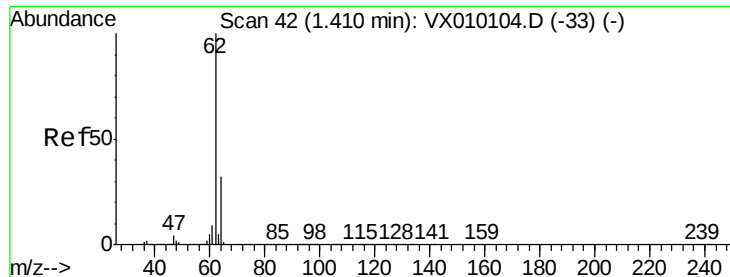
200

100

0

Time--> 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 7.142 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

Instrument :

MSVOA_X

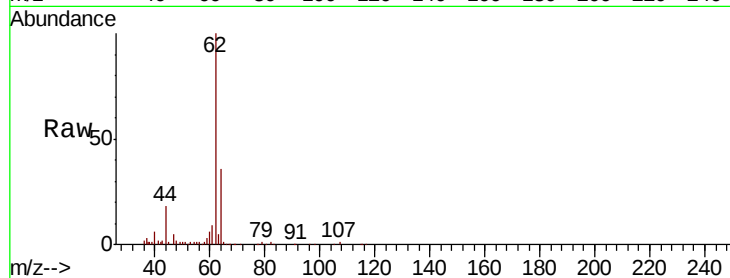
ClientSampleId :

Tot Ion: 62 Resp: 18521

Ion Ratio Lower Upper

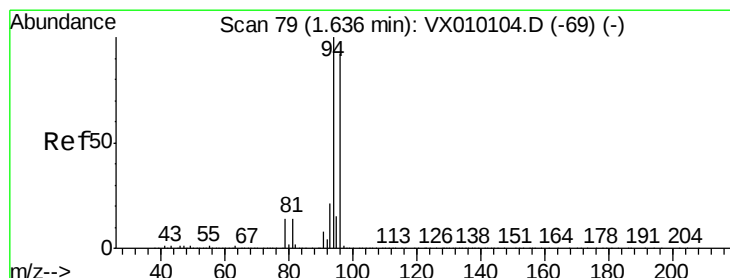
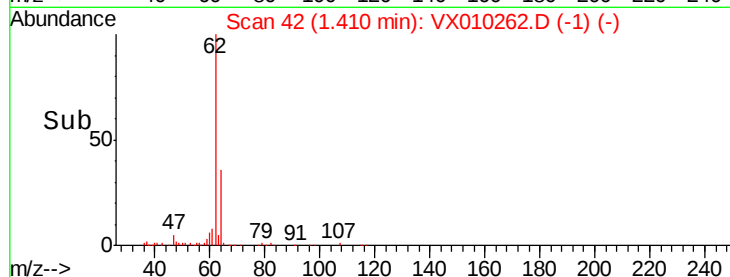
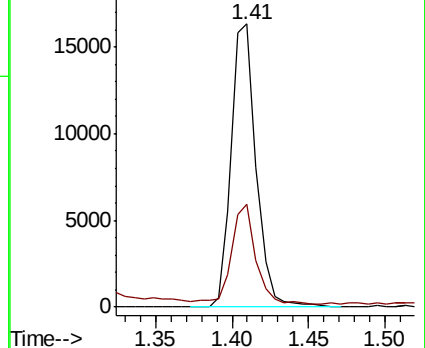
62 100

64 34.7 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: 0.380 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010262.D

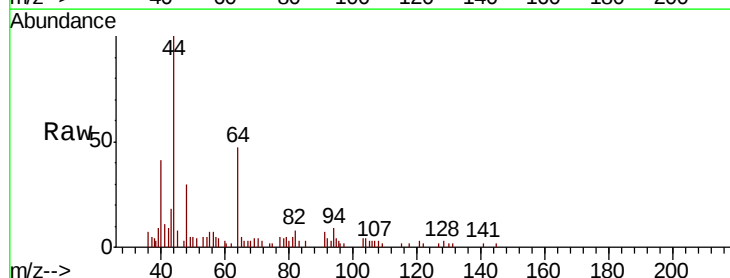
Acq: 12 Jun 2019 19:41

Tgt Ion: 94 Resp: 372

Ion Ratio Lower Upper

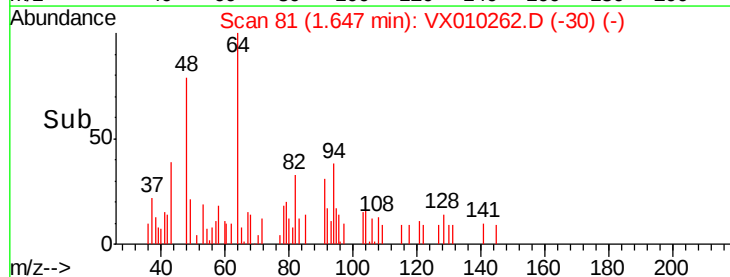
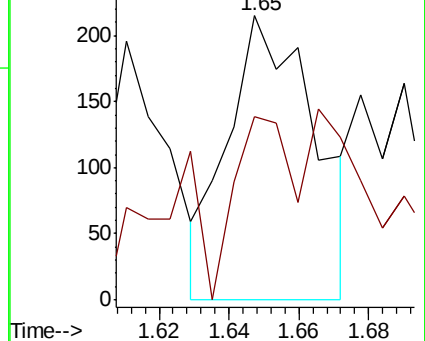
94 100

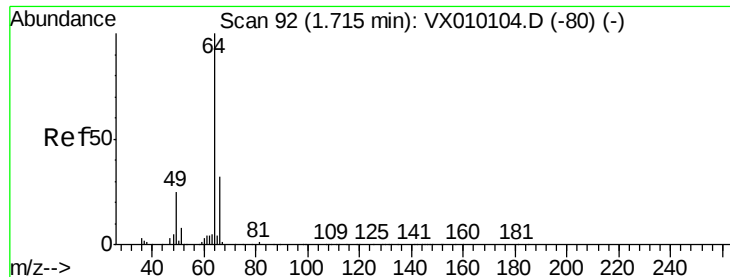
96 17.3 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.676 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

Instrument :

MSVOA_X

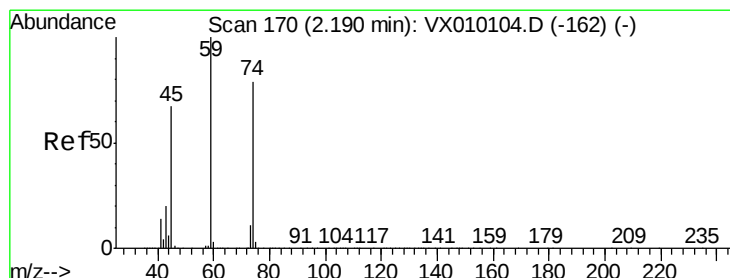
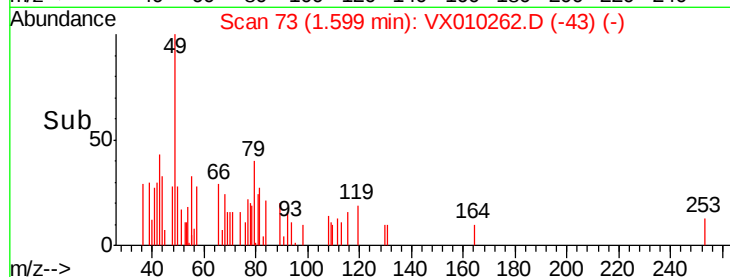
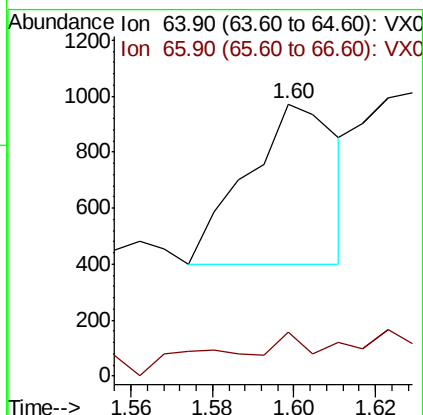
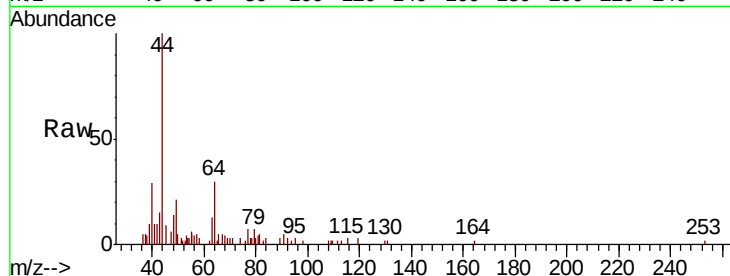
ClientSampled :

Tot Ion: 64 Resp: 884

Ion Ratio Lower Upper

64 100

66 11.3 25.1 37.7#



#8

Diethyl Ether

Concen: 0.215 ug/l

RT: 2.25 min Scan# 180

Delta R.T. 0.06 min

Lab File: VX010262.D

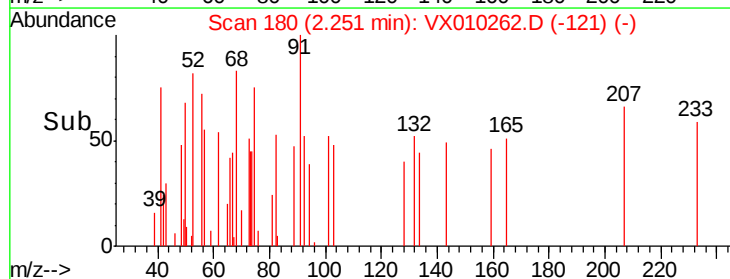
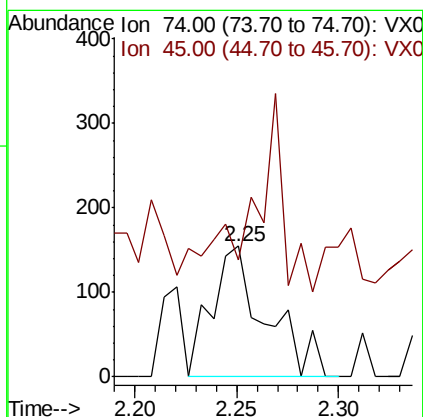
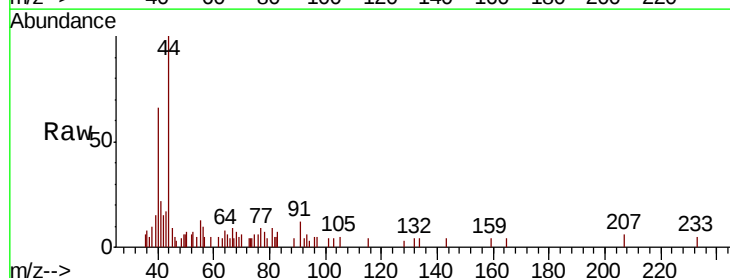
Acq: 12 Jun 2019 19:41

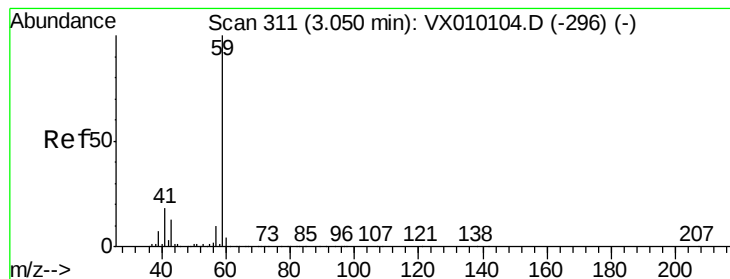
Tgt Ion: 74 Resp: 285

Ion Ratio Lower Upper

74 100

45 63.2 56.1 168.3



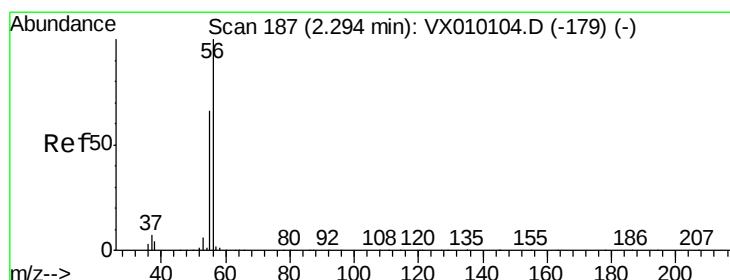
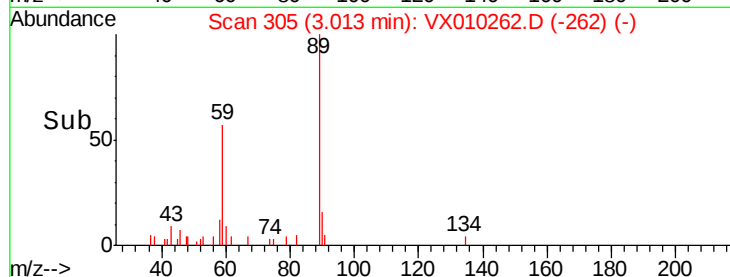
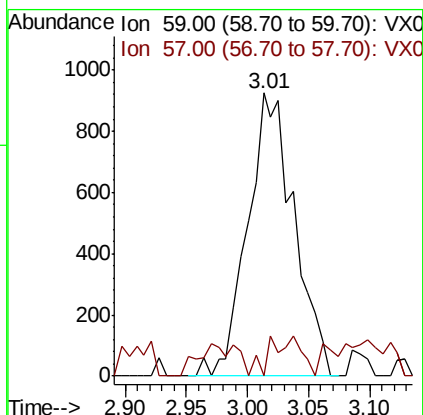
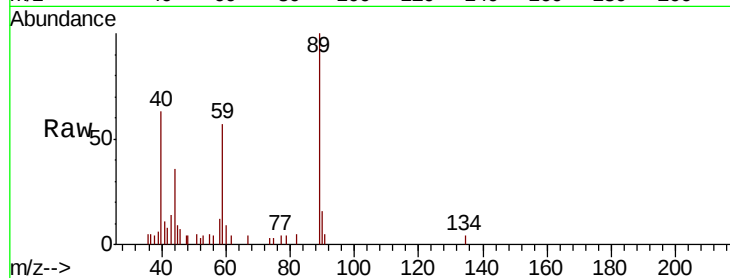


#11

Tert butyl alcohol
Concen: 3.392 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010262.D
Acq: 12 Jun 2019 19:41

Instrument :
MSVOA_X
ClientSampled :

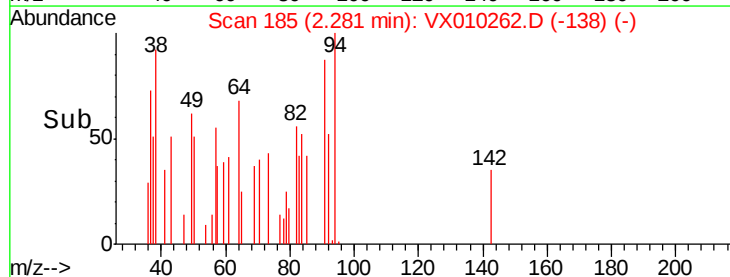
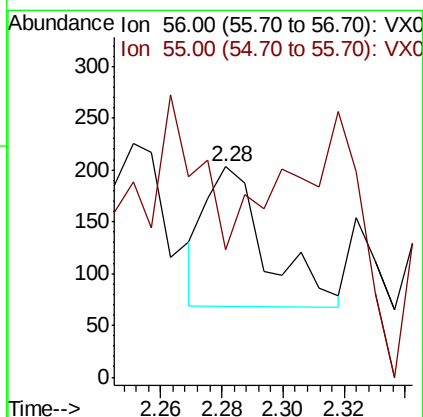
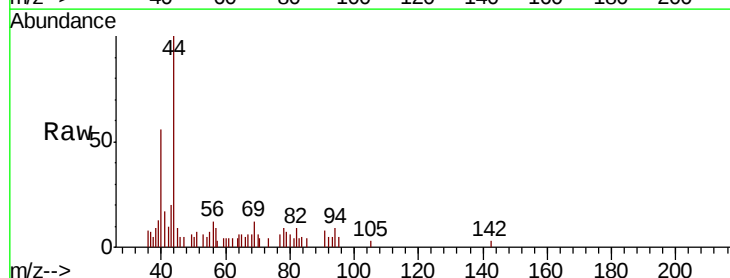
Tot Ion: 59 Resp: 2449
Ion Ratio Lower Upper
59 100
57 9.6 8.2 12.2

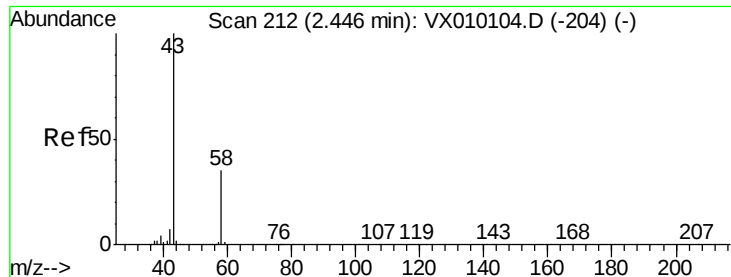


#13

Acrolein
Concen: 1.390 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX010262.D
Acq: 12 Jun 2019 19:41

Tgt Ion: 56 Resp: 183
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 1.834 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

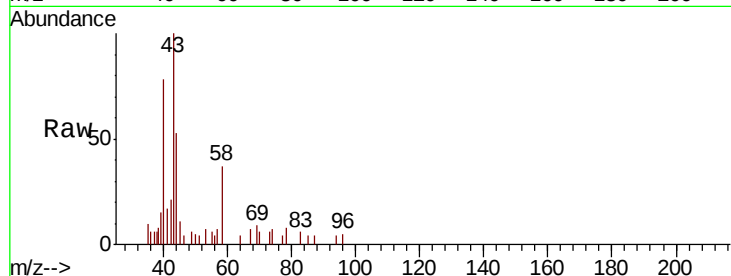
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 2543

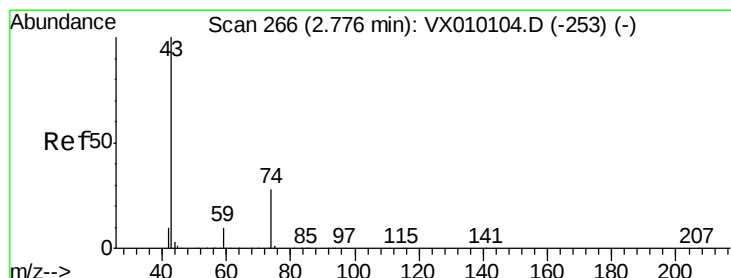
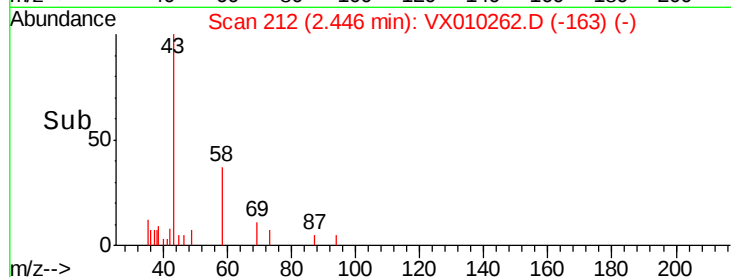
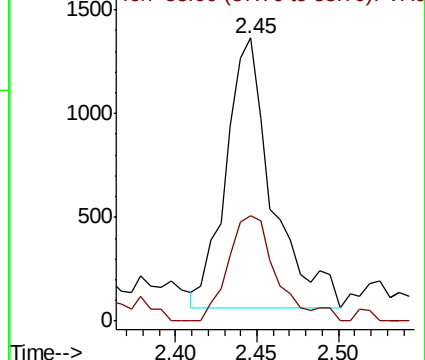
Ion Ratio Lower Upper

43 100

58 39.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.243 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX010262.D

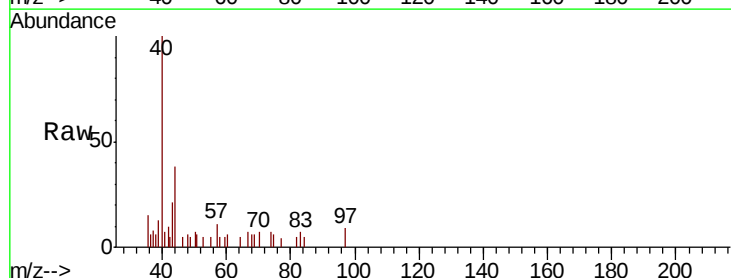
Acq: 12 Jun 2019 19:41

Tgt Ion: 43 Resp: 740

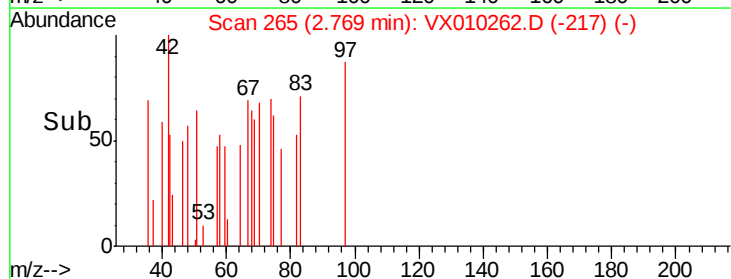
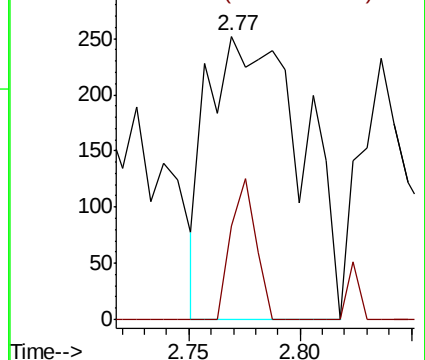
Ion Ratio Lower Upper

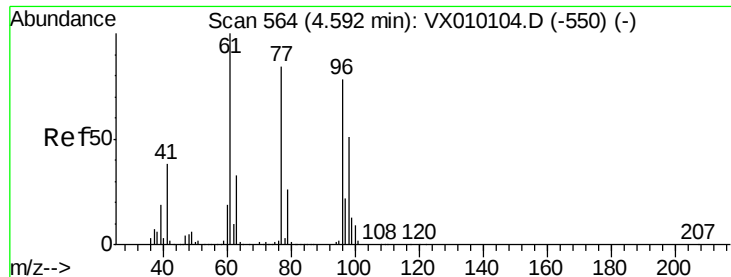
43 100

74 13.2 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 74.00 (73.70 to 74.70): VX0



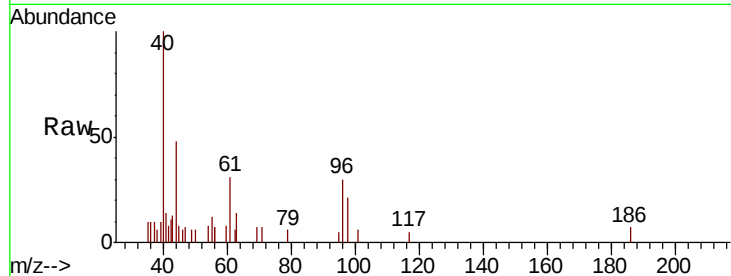


#27

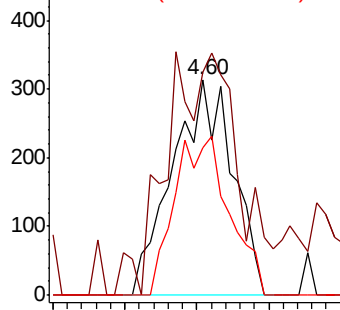
cis-1,2-Dichloroethene
 Concen: 0.273 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX010262.D
 Acq: 12 Jun 2019 19:41

Instrument :
 MSVOA_X
 ClientSampled :

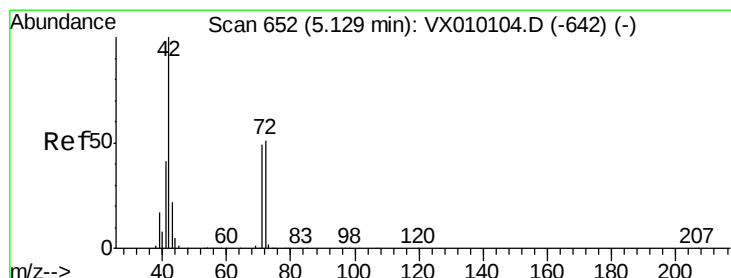
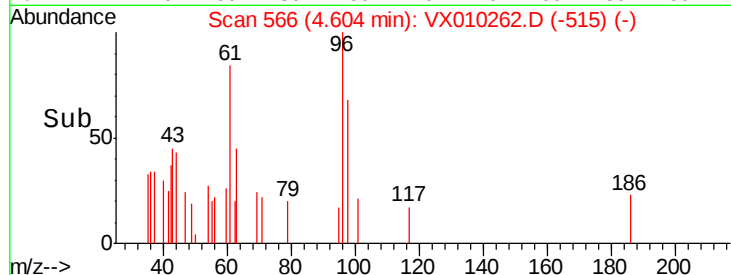
Tot Ion: 96 Resp: 910
 Ion Ratio Lower Upper
 96 100
 61 55.1 0.0 334.0
 98 66.7 0.0 131.6



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



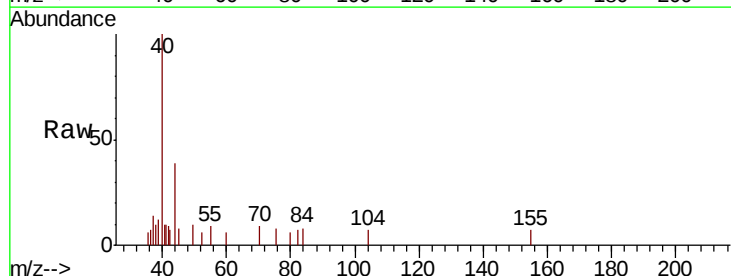
Time--> 4.50 4.55 4.60 4.65



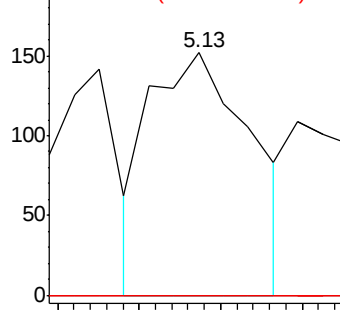
#29

Tetrahydrofuran
 Concen: 0.203 ug/l
 RT: 5.13 min Scan# 653
 Delta R.T. 0.01 min
 Lab File: VX010262.D
 Acq: 12 Jun 2019 19:41

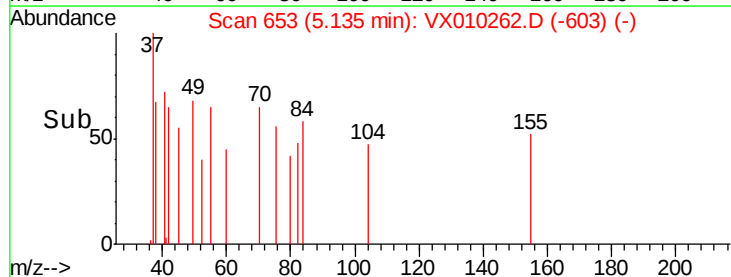
Tgt Ion: 42 Resp: 264
 Ion Ratio Lower Upper
 42 100
 72 0.0 29.2 43.8#
 71 0.0 27.6 41.4#

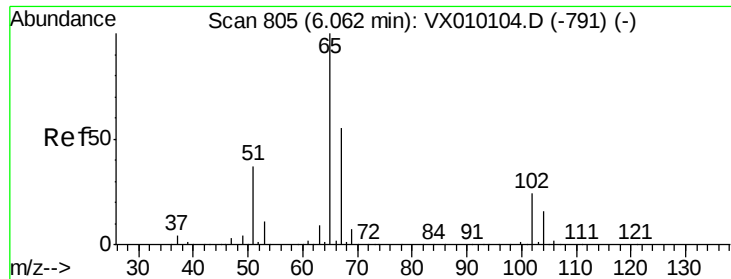


Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0



Time--> 5.10 5.12 5.14 5.16





#33

1,2-Dichloroethane-d4

Concen: 47.217 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

Instrument :

MSVOA_X

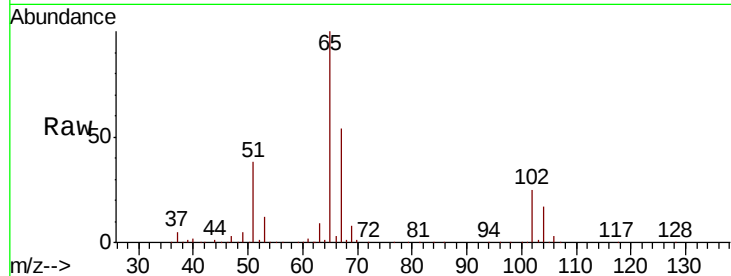
ClientSampleId :

Tot Ion: 65 Resp: 139165

Ion Ratio Lower Upper

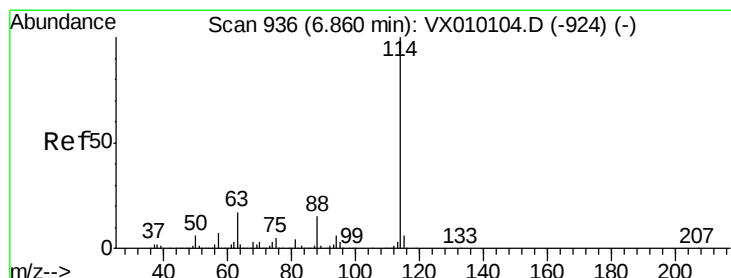
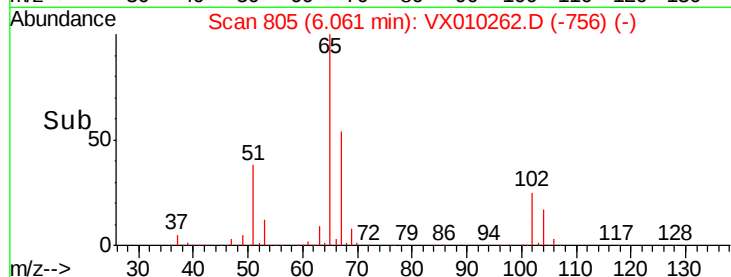
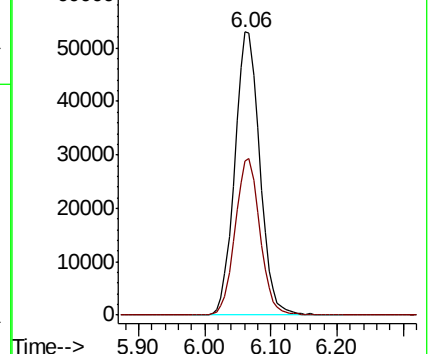
65 100

67 54.1 0.0 108.4



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: VX010262.D

Acq: 12 Jun 2019 19:41

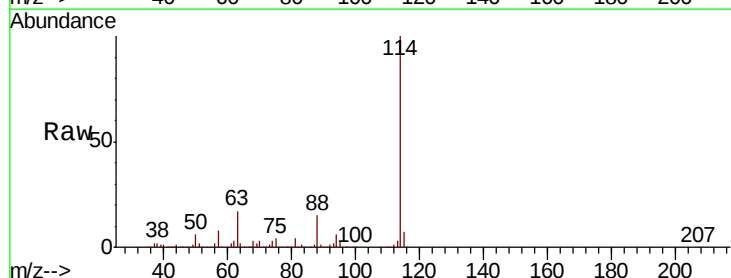
Tgt Ion: 114 Resp: 461659

Ion Ratio Lower Upper

114 100

63 17.1 0.0 47.4

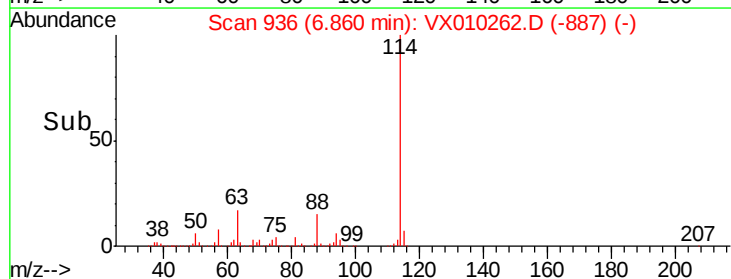
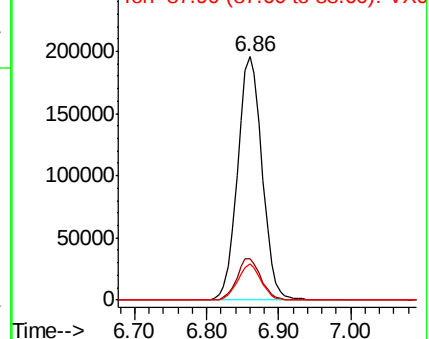
88 14.7 0.0 33.0

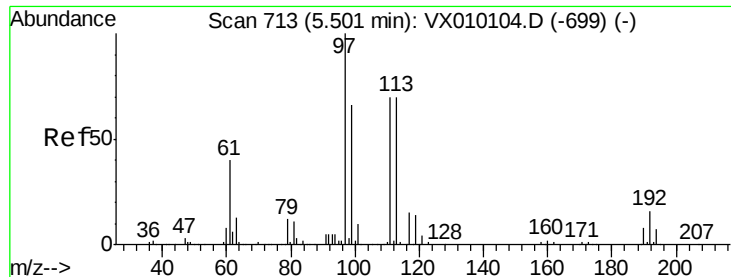


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

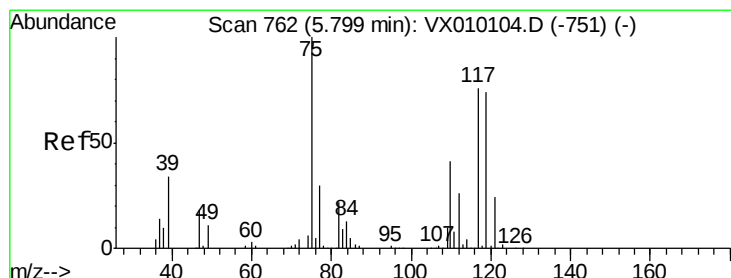
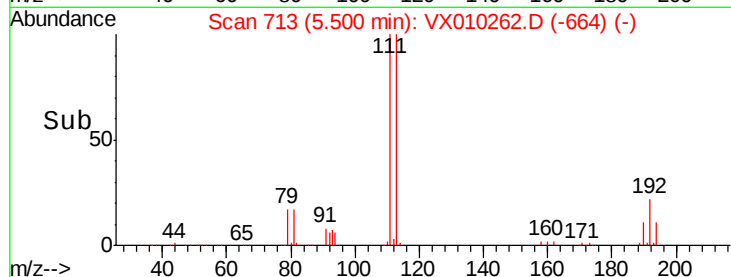
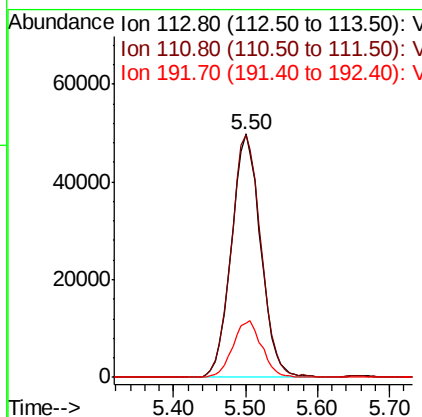
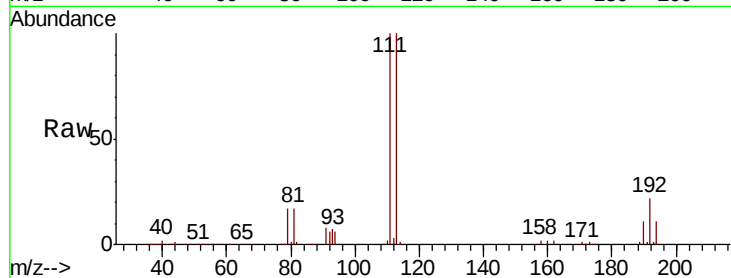




#35
 Dibromofluoromethane
 Concen: 49.359 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX010262.D
 Acq: 12 Jun 2019 19:41

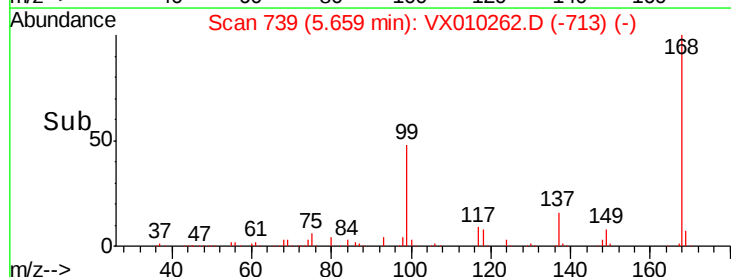
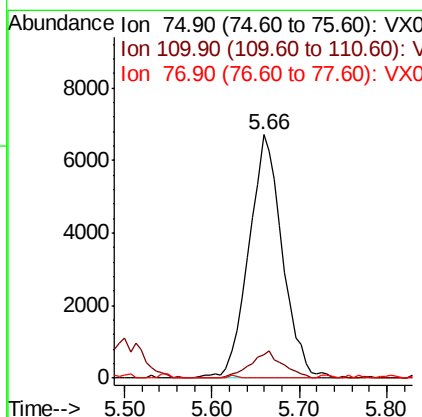
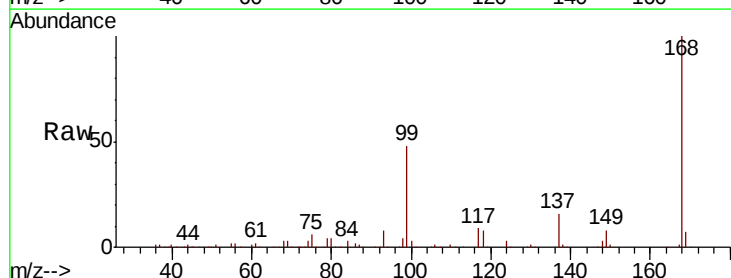
Instrument :
 MSVOA_X
 ClientSampleId :

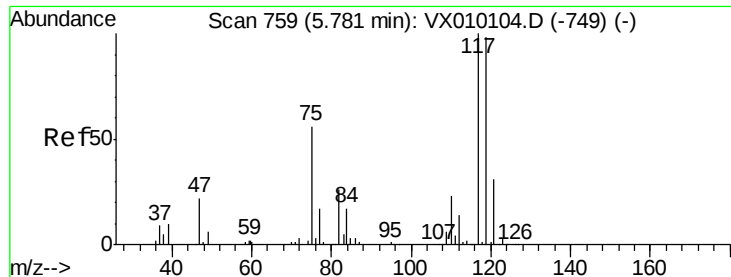
Tot Ion:113 Resp: 140556
 Ion Ratio Lower Upper
 113 100
 111 101.5 82.2 123.2
 192 23.0 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.738 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010262.D
 Acq: 12 Jun 2019 19:41

Tgt Ion: 75 Resp: 17847
 Ion Ratio Lower Upper
 75 100
 110 10.7 16.7 50.1#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.137 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

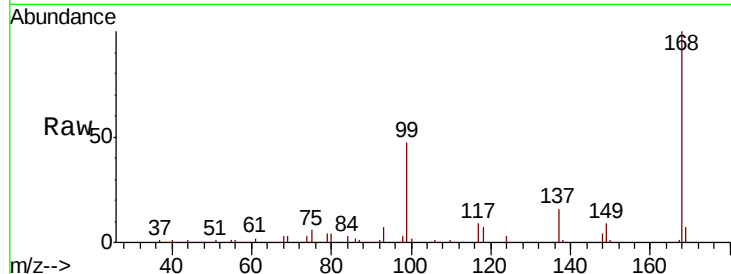
Tot Ion:117 Resp: 26163

Ion Ratio Lower Upper

117 100

119 5.4 77.3 115.9#

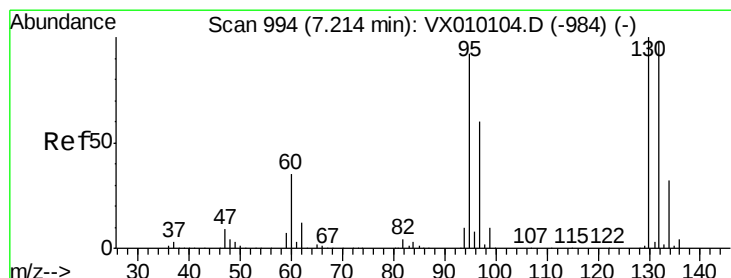
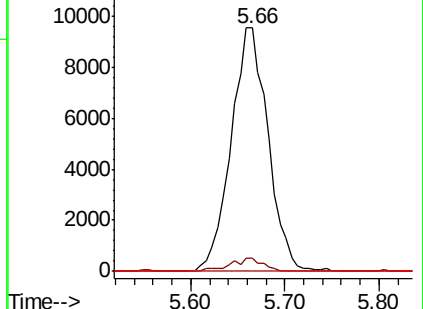
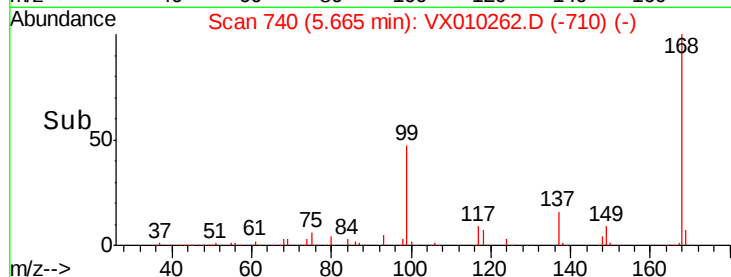
121 0.0 25.4 38.0#



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



#44

Trichloroethene

Concen: 0.222 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.01 min

Lab File: VX010262.D

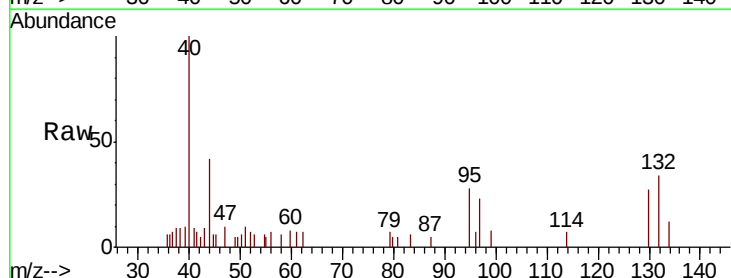
Acq: 12 Jun 2019 19:41

Tgt Ion:130 Resp: 780

Ion Ratio Lower Upper

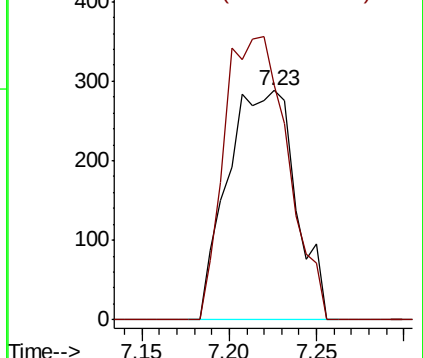
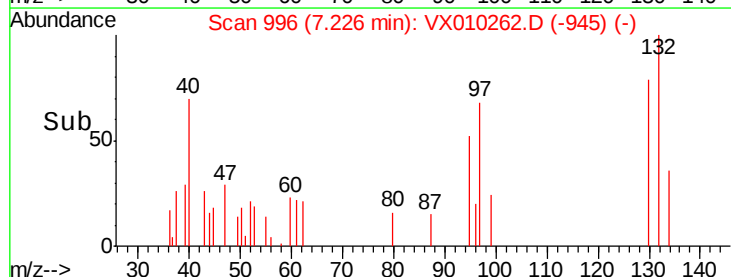
130 100

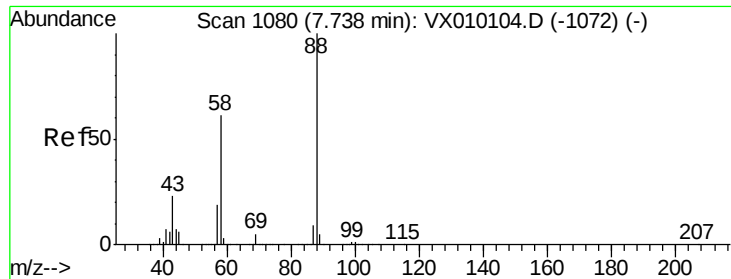
95 102.4 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.217 ug/l

RT: 7.71 min Scan# 1076

Delta R.T. -0.02 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

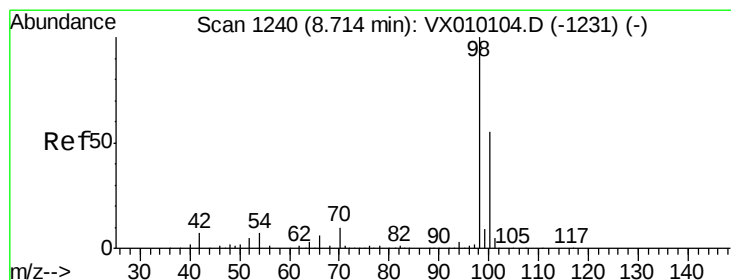
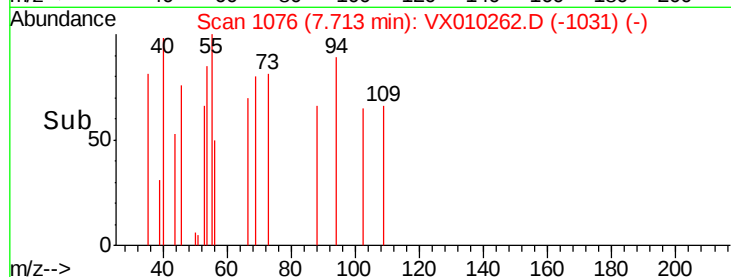
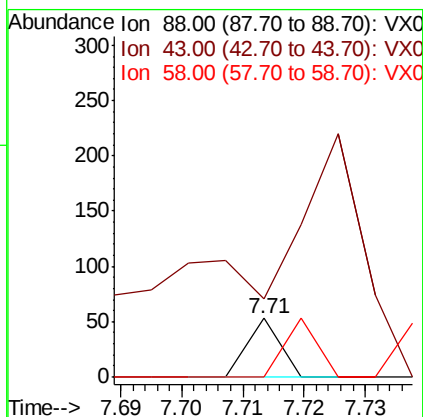
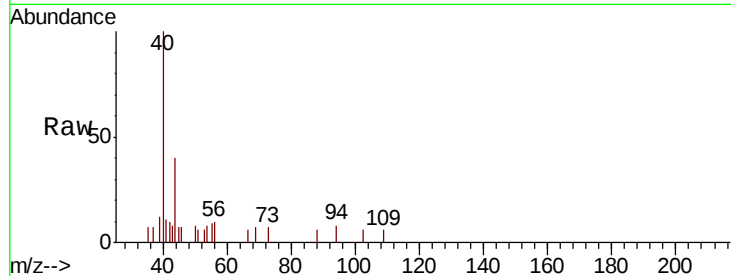
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1368.4 30.2 45.4#

58 100.0 64.0 96.0#



#50

Toluene-d8

Concen: 50.791 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010262.D

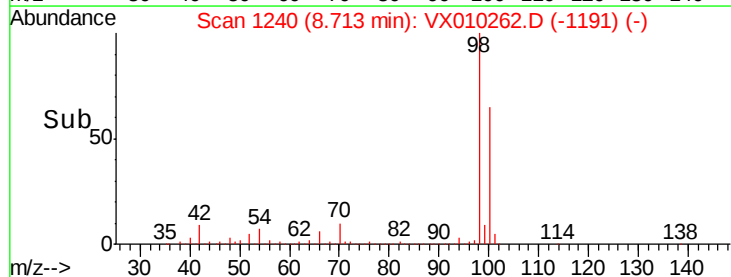
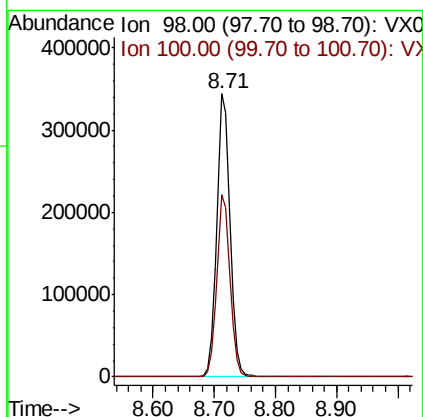
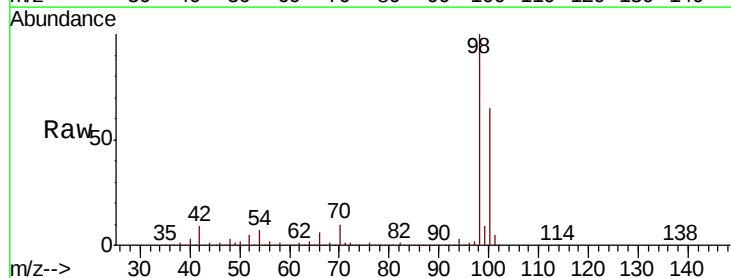
Acq: 12 Jun 2019 19:41

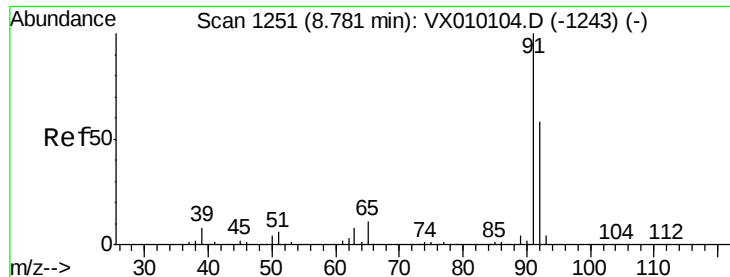
Tgt Ion: 98 Resp: 542064

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3





#52

Toluene

Concen: 0.210 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

Instrument :

MSVOA_X

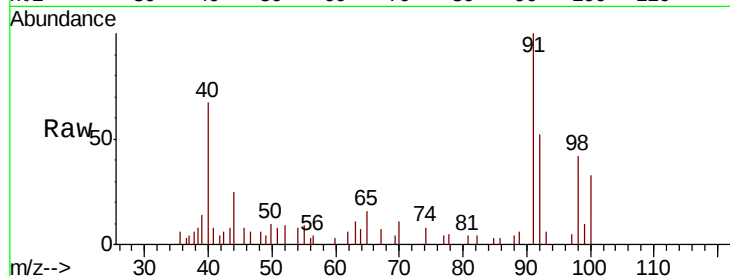
ClientSampleId :

Tot Ion: 92 Resp: 1608

Ion Ratio Lower Upper

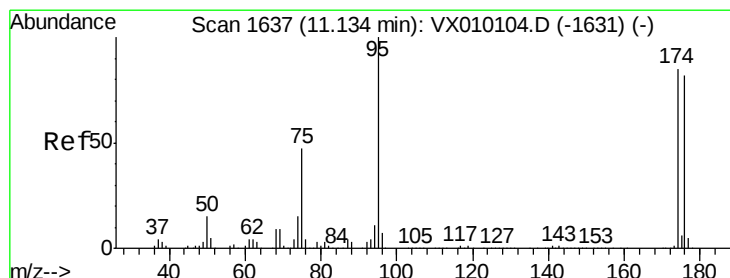
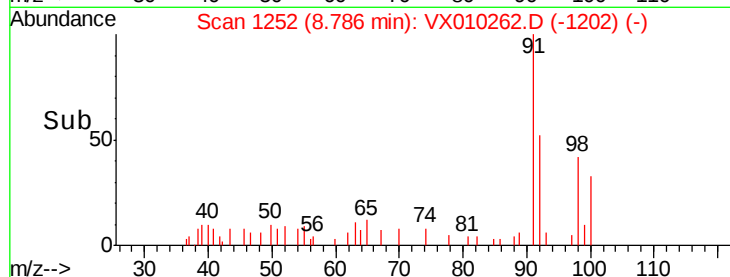
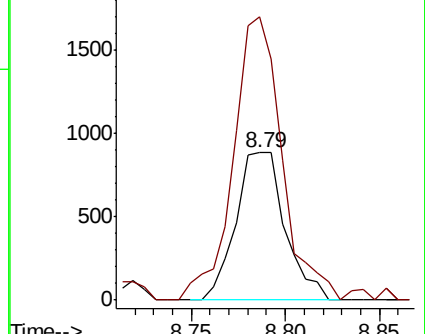
92 100

91 190.4 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.483 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

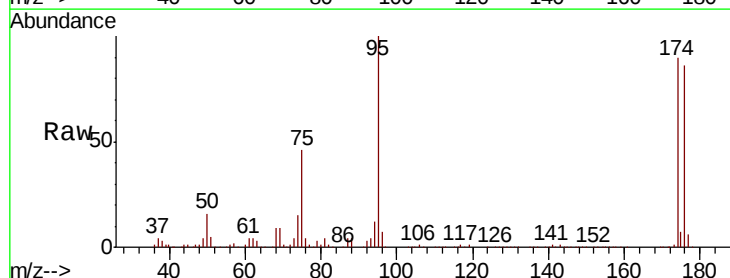
Tgt Ion: 95 Resp: 185269

Ion Ratio Lower Upper

95 100

174 95.0 0.0 160.4

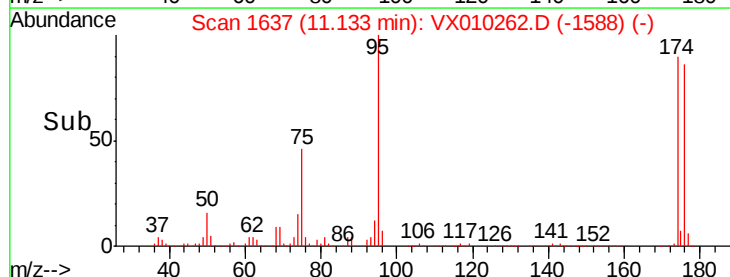
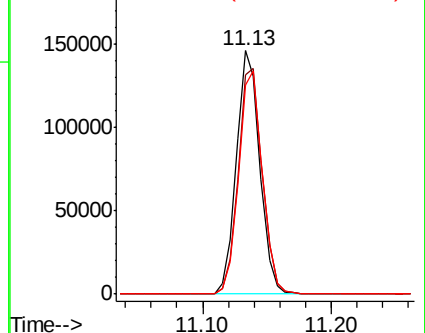
176 92.6 0.0 154.6

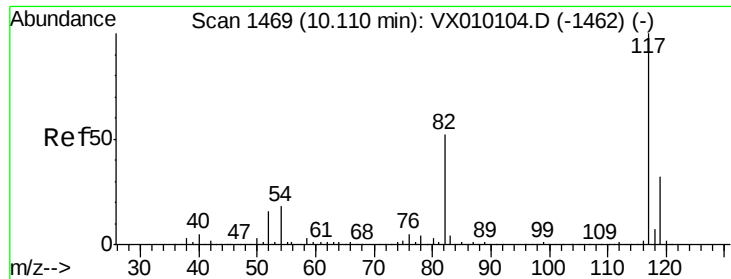


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

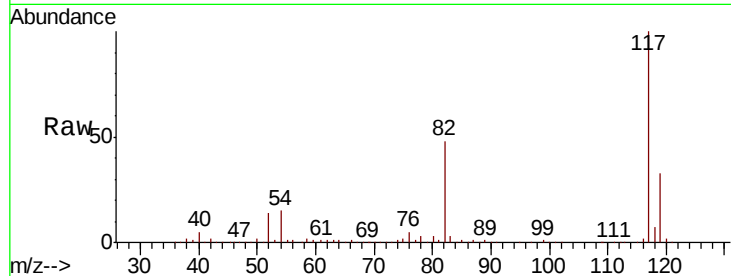




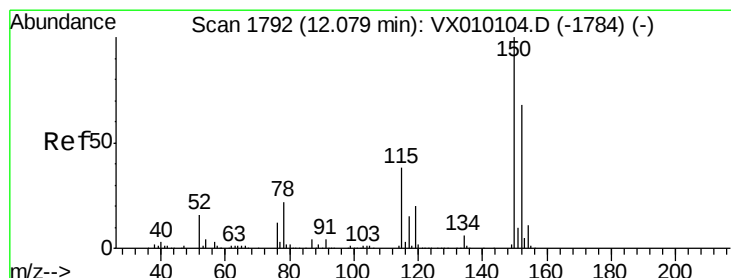
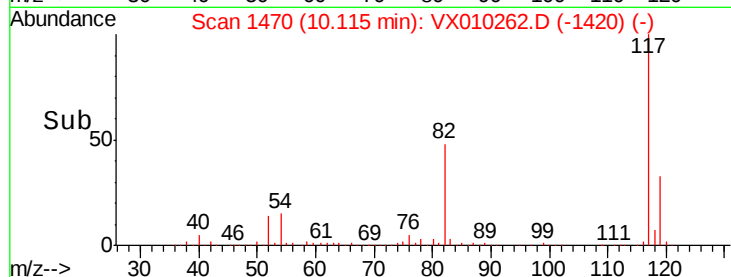
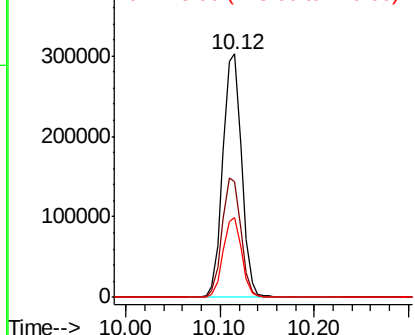
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX010262.D
Acq: 12 Jun 2019 19:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 419938
Ion Ratio Lower Upper
117 100
82 47.6 49.2 73.8#
119 32.6 25.2 37.8

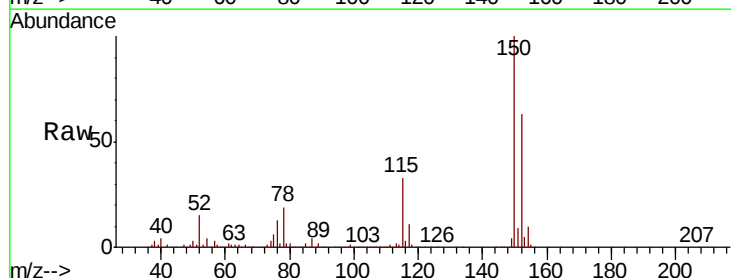


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

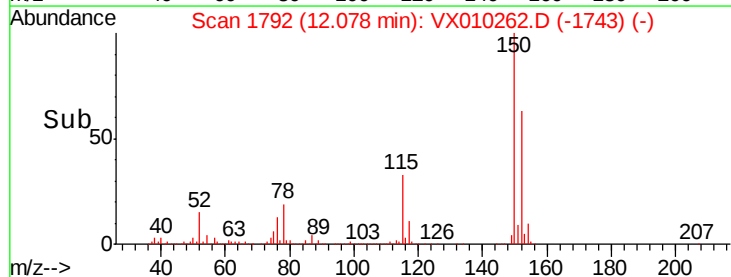
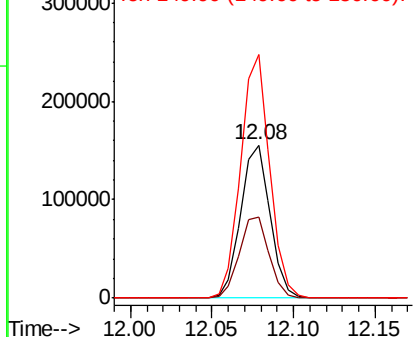


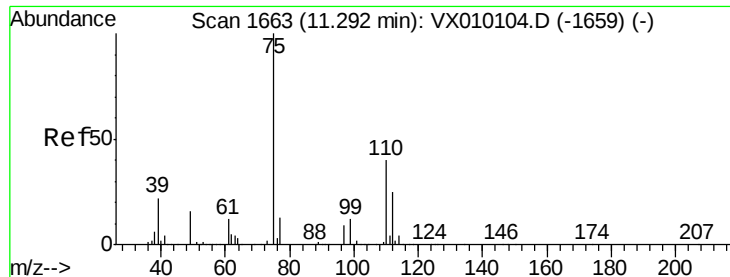
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010262.D
Acq: 12 Jun 2019 19:41

Tgt Ion:152 Resp: 195646
Ion Ratio Lower Upper
152 100
115 53.6 41.4 124.2
150 157.2 0.0 345.2



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: 21.874 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

Instrument :

MSVOA_X

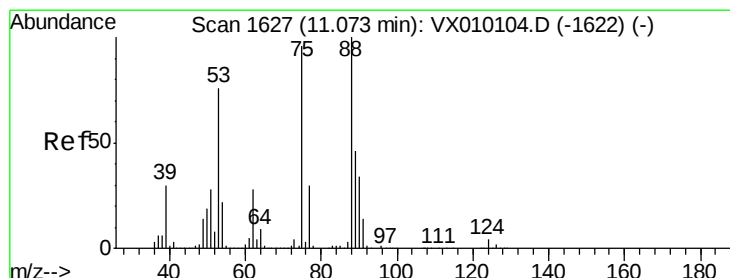
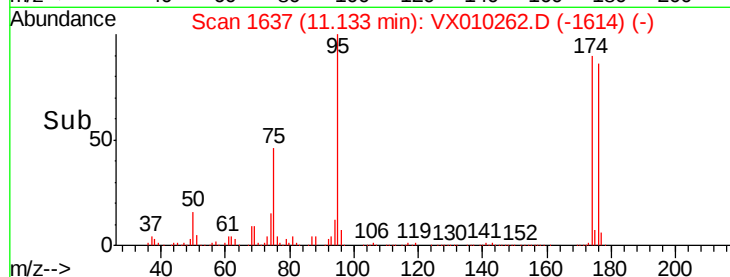
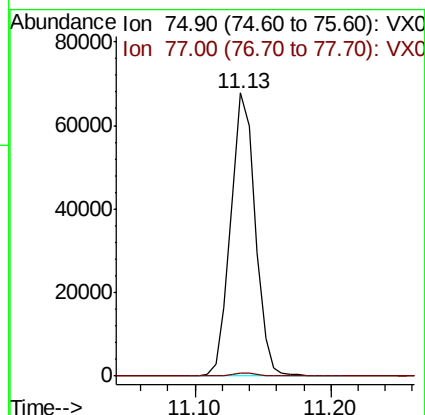
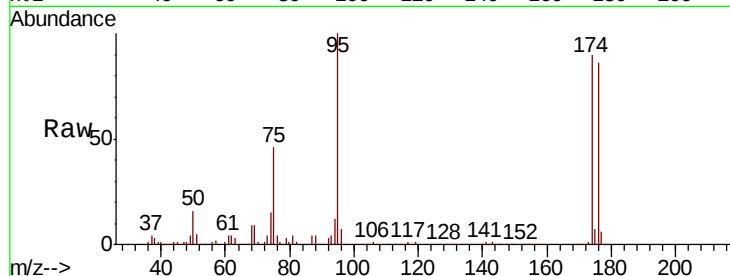
ClientSampleId :

Tot Ion: 75 Resp: 85600

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.329 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010262.D

Acq: 12 Jun 2019 19:41

Tgt Ion: 75 Resp: 85600

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.1 34.2 51.4#

