

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062918\
 Data File : VX003028.D
 Acq On : 29 Jun 2018 14:58
 Operator : JC/MD
 Sample : J3711-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 29 15:35:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	270208	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	377368	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	347510	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	193530	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	175314	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
35) Dibromofluoromethane	5.51	113	142040	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
50) Toluene-d8	8.72	98	524830	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
62) 4-Bromofluorobenzene	11.14	95	184359	43.80	ug/l	0.00
Spiked Amount			Recovery	=	87.60%	

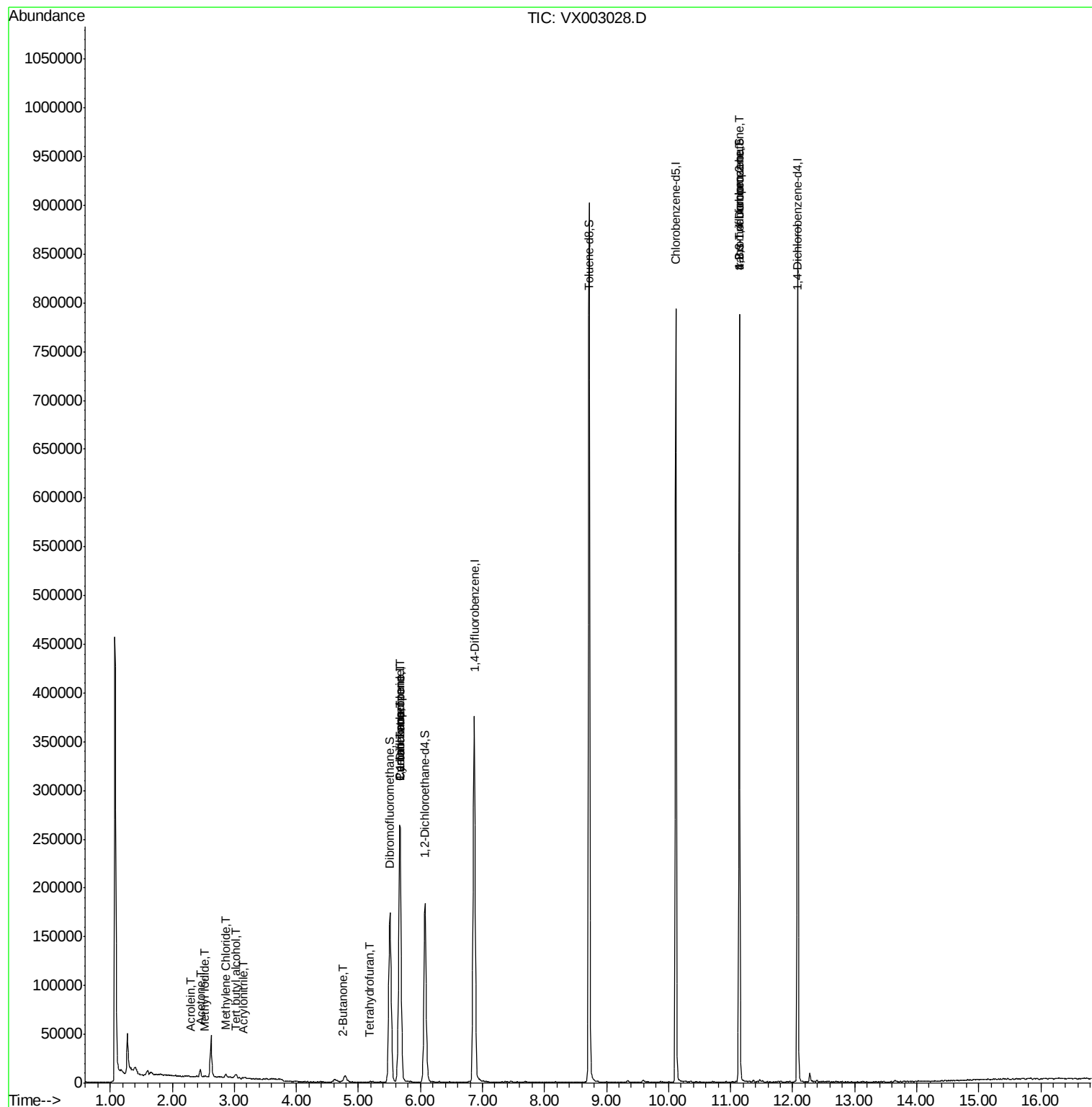
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	73	Below Cal	#	43
3) Chloromethane	1.32	50	641	Below Cal	#	65
5) Bromomethane	1.66	94	1700	Below Cal		88
6) Chloroethane	1.69	64	332	Below Cal		99
10) Methyl Iodide	2.52	142	1133	6.55	ug/l #	92
11) Tert butyl alcohol	3.02	59	2403	3.23	ug/l #	87
13) Acrolein	2.31	56	145	4.57	ug/l #	73
15) Acrylonitrile	3.14	53	431	0.27	ug/l #	88
16) Acetone	2.45	43	8154	5.27	ug/l #	98
20) Methylene Chloride	2.86	84	1626	0.54	ug/l #	85
25) 2-Butanone	4.74	43	670	0.29	ug/l #	52
29) Tetrahydrofuran	5.17	42	370	0.25	ug/l #	64
31) Cyclohexane	5.67	56	5076	1.08	ug/l #	3
36) 1,1-Dichloropropene	5.67	75	18207	4.40	ug/l #	52
38) Carbon Tetrachloride	5.67	117	24337	5.36	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	94473	26.95	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	94473	76.30	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

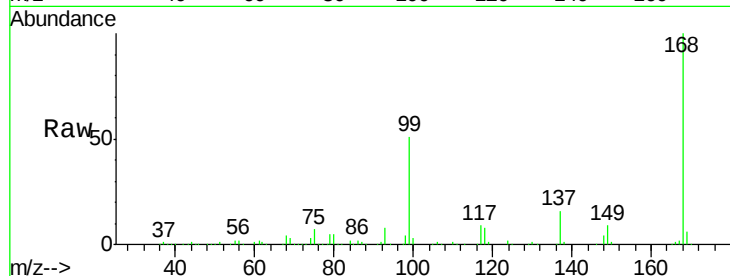
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 270208

Ion Ratio Lower Upper

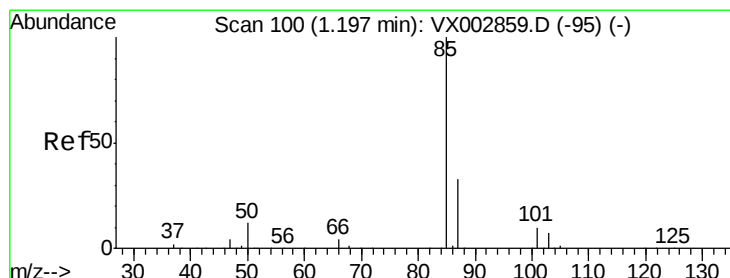
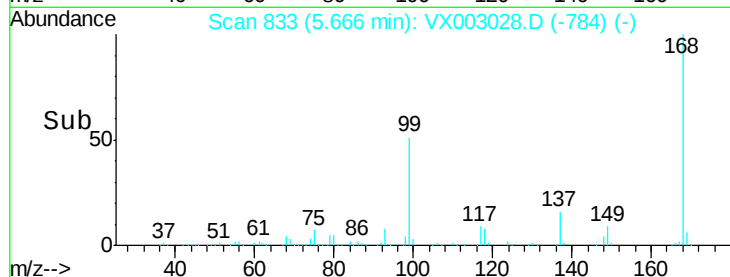
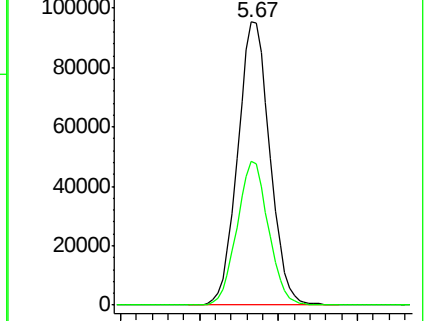
168 100

99 50.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003028.D

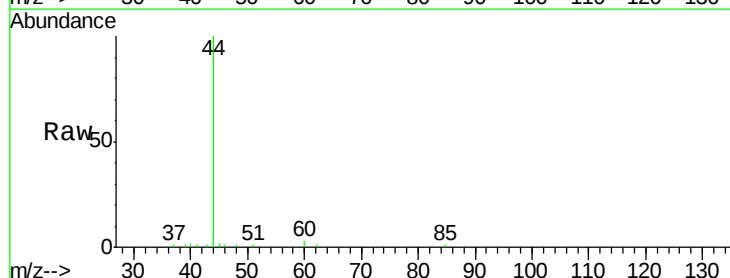
Acq: 29 Jun 2018 14:58

Tgt Ion: 85 Resp: 73

Ion Ratio Lower Upper

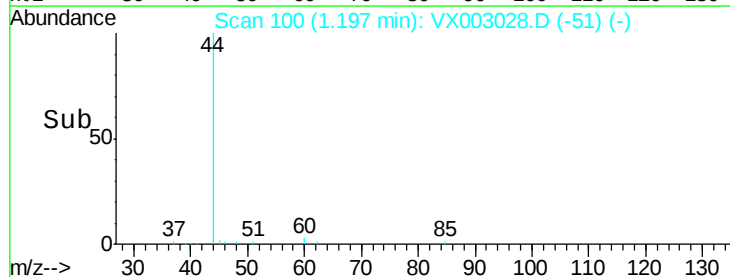
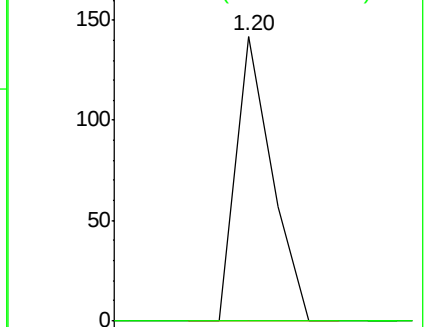
85 100

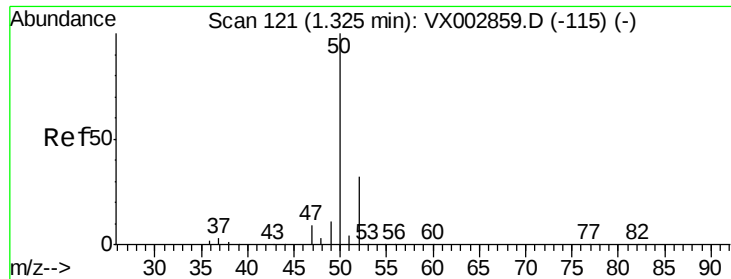
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

Instrument :

MSVOA_X

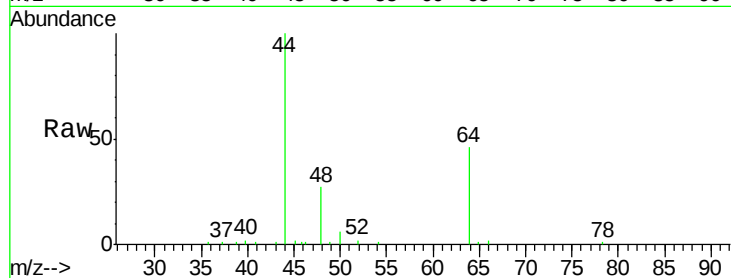
ClientSampleId :

Tot Ion: 50 Resp: 641

Ion Ratio Lower Upper

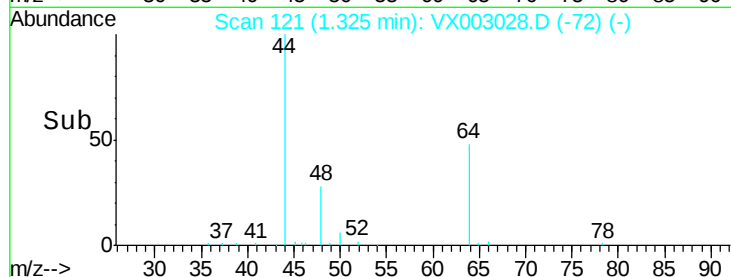
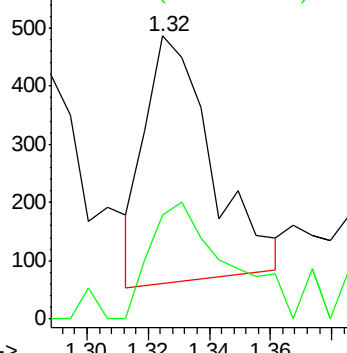
50 100

52 51.4 25.7 38.5#

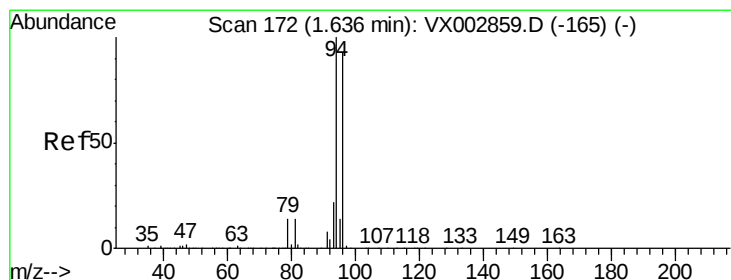


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003028.D

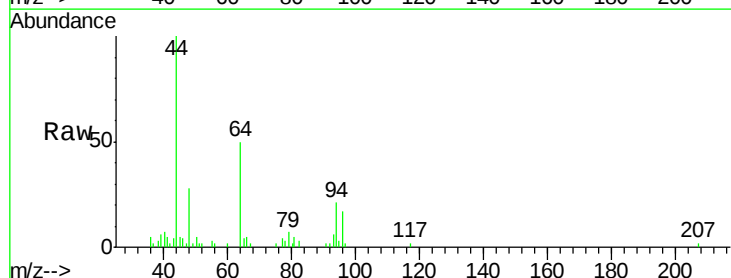
Acq: 29 Jun 2018 14:58

Tgt Ion: 94 Resp: 1700

Ion Ratio Lower Upper

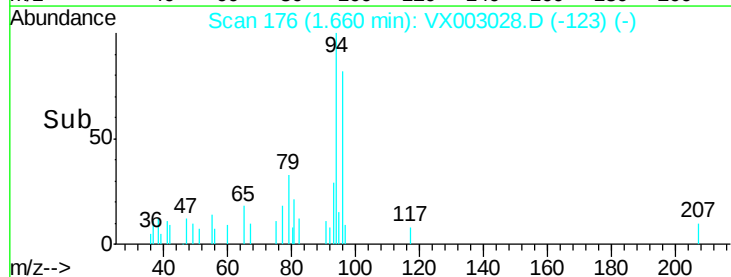
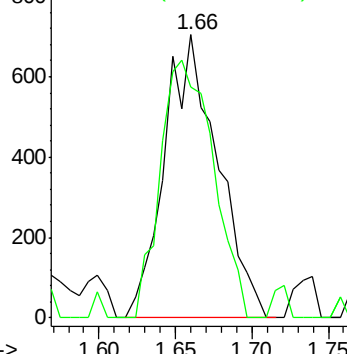
94 100

96 81.7 74.9 112.3

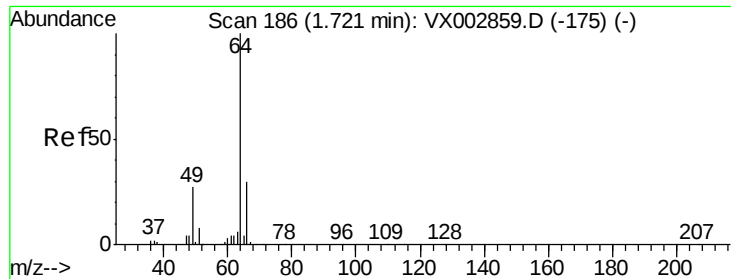


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 181

Delta R.T. -0.03 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

Instrument :

MSVOA_X

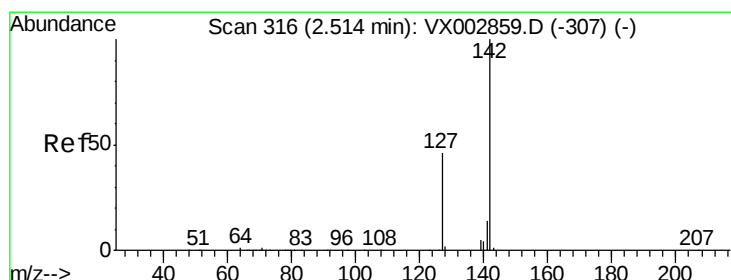
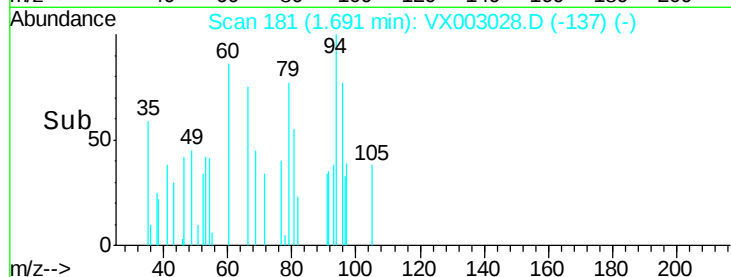
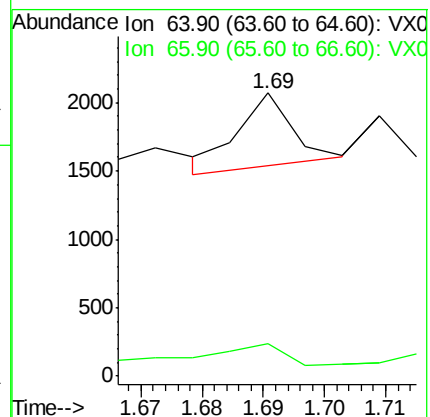
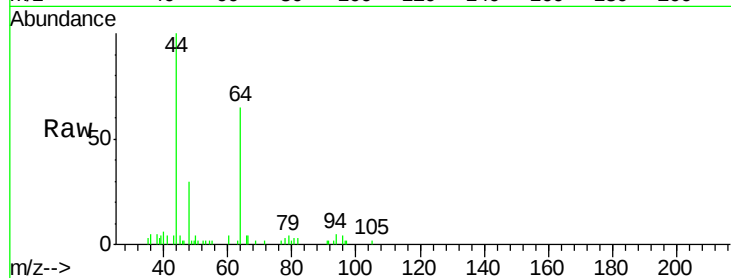
ClientSampled :

Tot Ion: 64 Resp: 332

Ion Ratio Lower Upper

64 100

66 32.4 25.5 38.3



#10

Methyl Iodide

Concen: 6.55 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

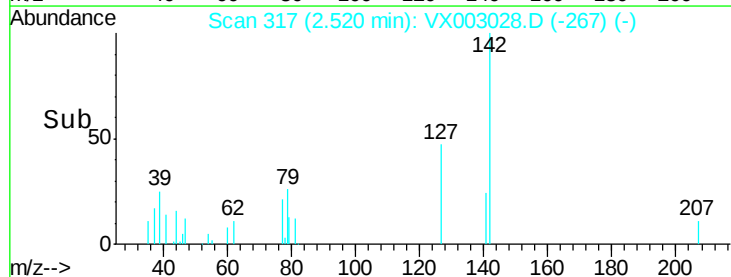
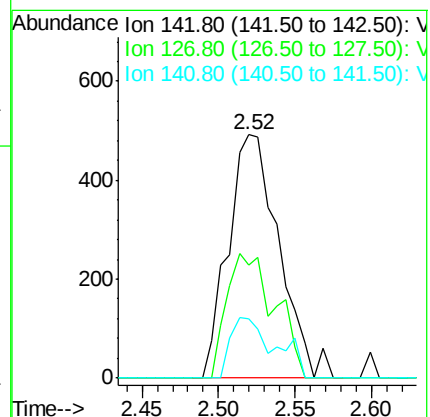
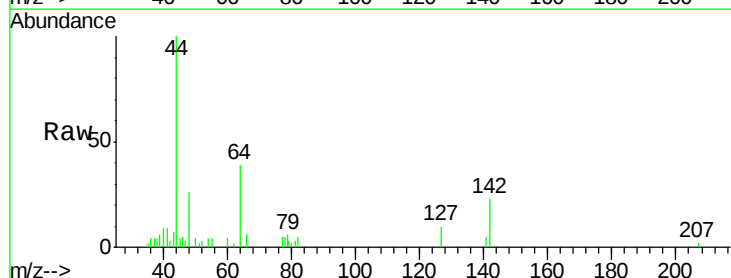
Tgt Ion:142 Resp: 1133

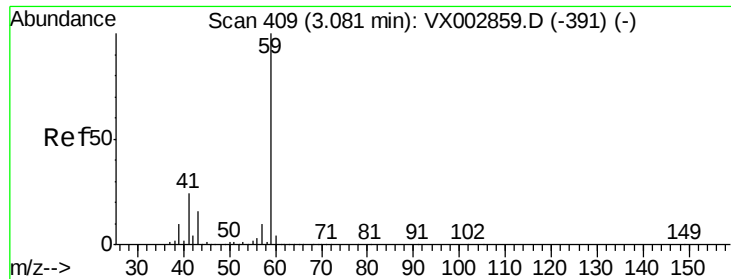
Ion Ratio Lower Upper

142 100

127 48.8 36.6 55.0

141 21.6 11.3 16.9#

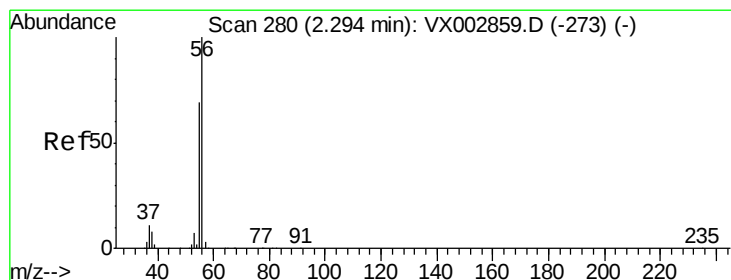
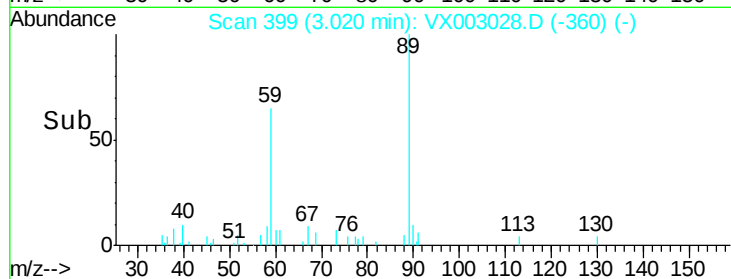
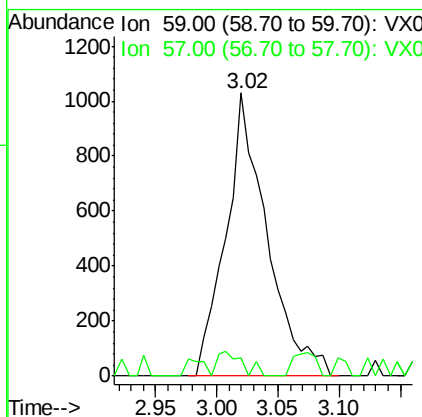
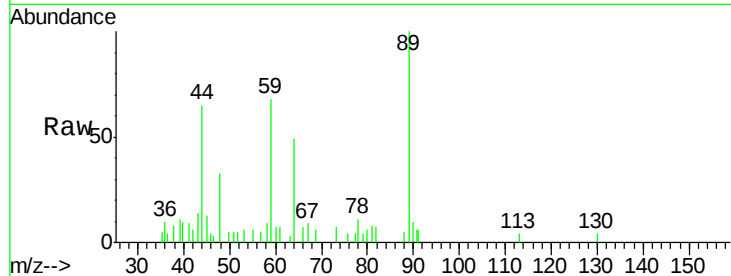




#11
Tert butyl alcohol
Concen: 3.23 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX003028.D
Acq: 29 Jun 2018 14:58

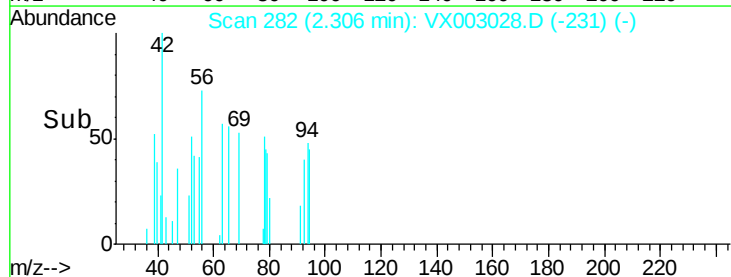
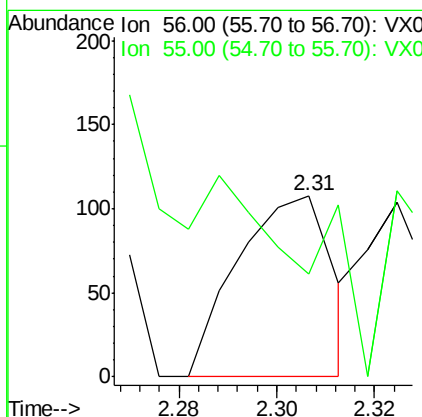
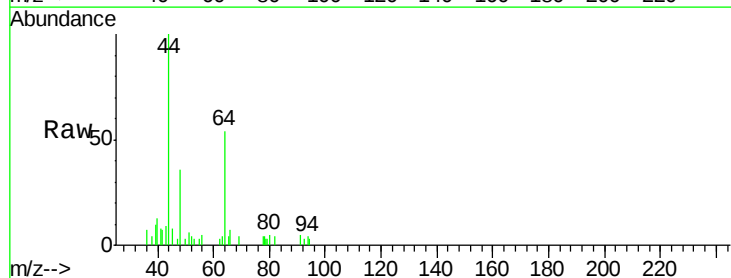
Instrument :
MSVOA_X
ClientSampleId :

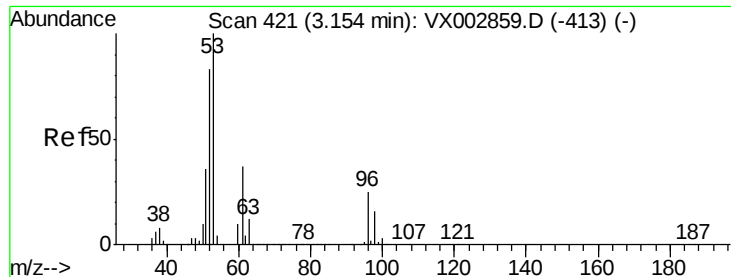
Tot Ion: 59 Resp: 2403
Ion Ratio Lower Upper
59 100
57 5.5 8.2 12.2#



#13
Acrolein
Concen: 4.57 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX003028.D
Acq: 29 Jun 2018 14:58

Tgt Ion: 56 Resp: 145
Ion Ratio Lower Upper
56 100
55 93.8 57.0 85.4#





#15

Acrylonitrile

Concen: 0.27 ug/l

RT: 3.14 min Scan# 419

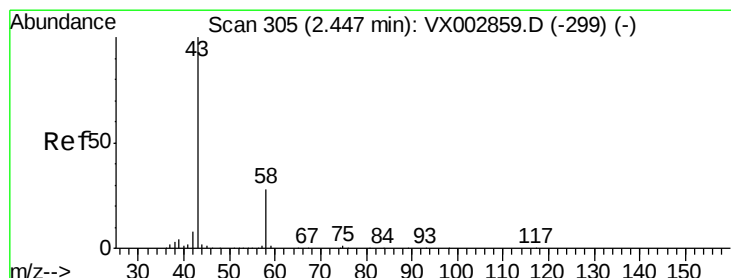
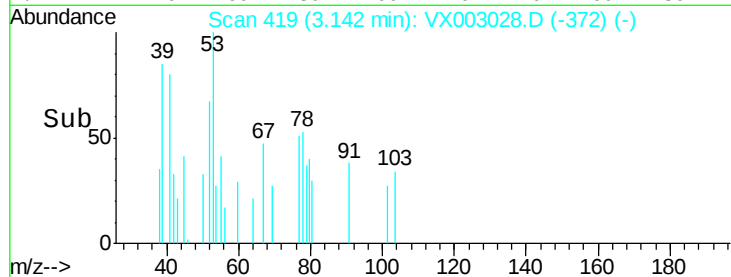
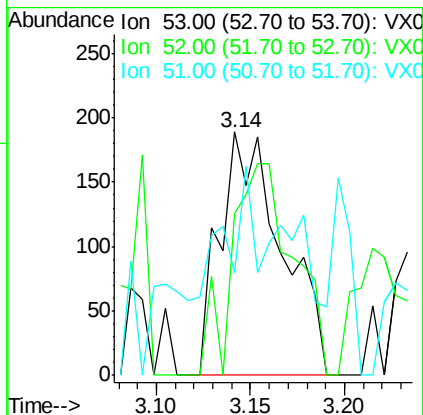
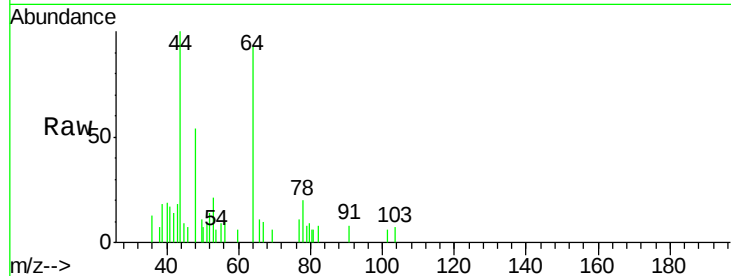
Delta R.T. -0.01 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	431
Ion	Ratio	Lower	Upper
53	100		
52	86.3	66.7	100.1
51	19.0	29.9	44.9#



#16

Acetone

Concen: 5.27 ug/l

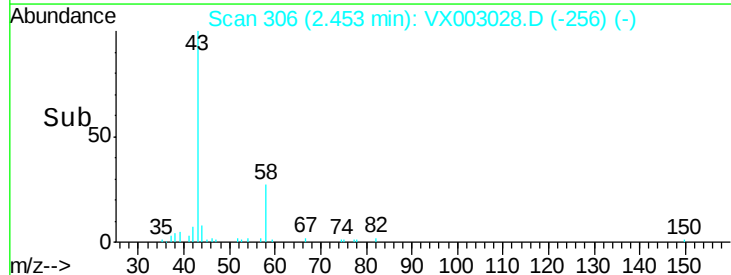
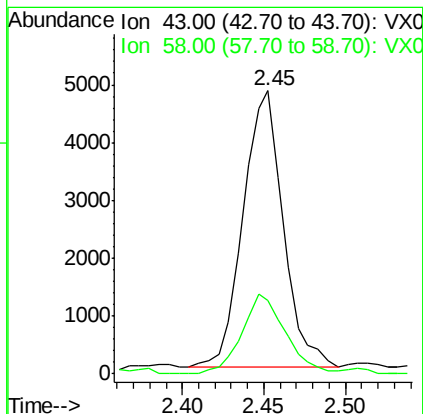
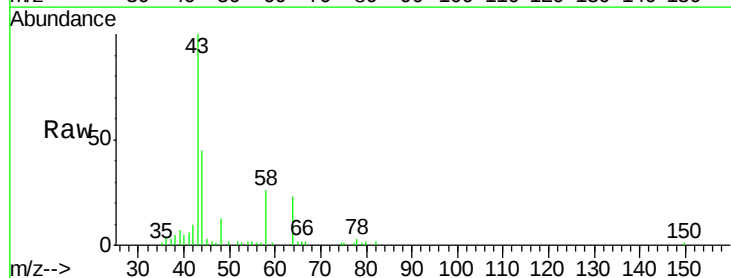
RT: 2.45 min Scan# 306

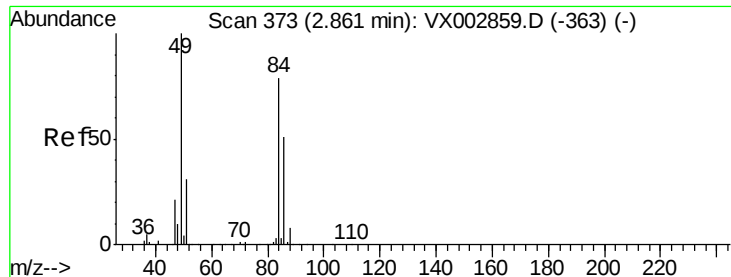
Delta R.T. 0.01 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

Tgt Ion:	43	Resp:	8154
Ion	Ratio	Lower	Upper
43	100		
58	26.5	22.1	33.1

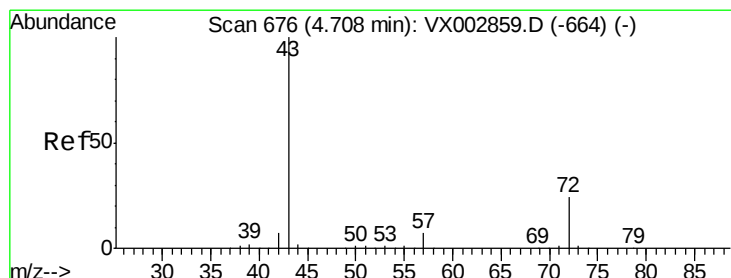
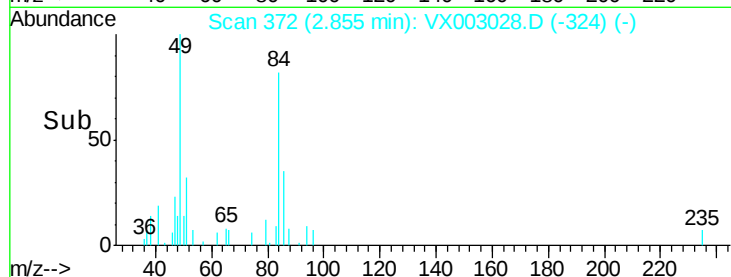
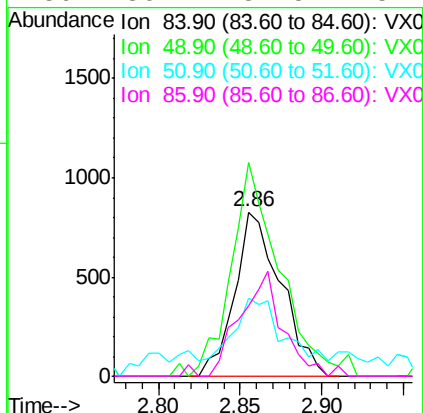
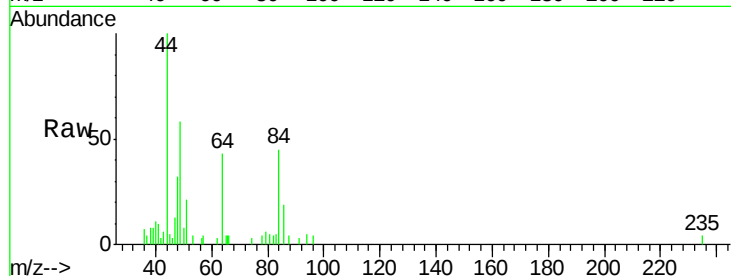




#20
Methylene Chloride
Concen: 0.54 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX003028.D
Acq: 29 Jun 2018 14:58

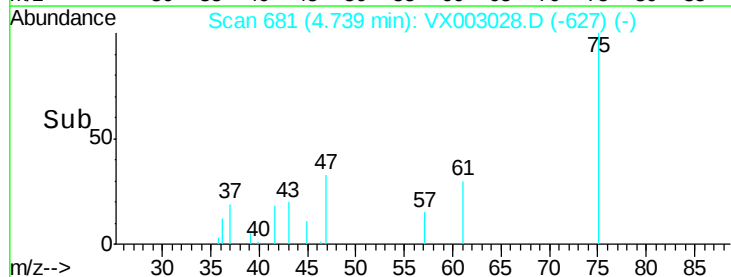
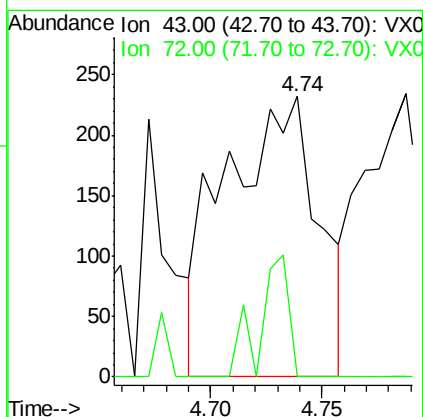
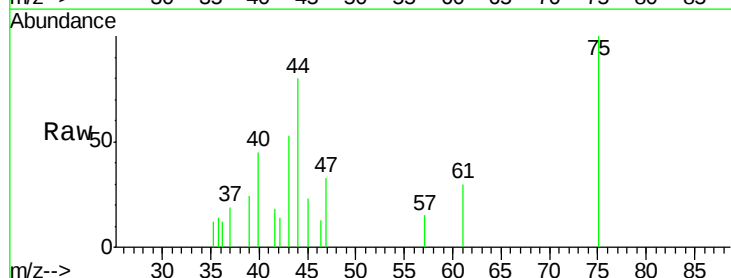
Instrument :
MSVOA_X
ClientSampleId :

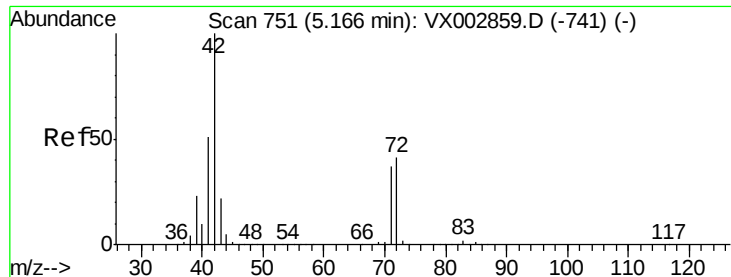
Tot Ion: 84 Resp: 1626
Ion Ratio Lower Upper
84 100
49 129.8 107.8 161.6
51 32.4 32.8 49.2#
86 36.7 52.5 78.7#



#25
2-Butanone
Concen: 0.29 ug/l
RT: 4.74 min Scan# 681
Delta R.T. 0.03 min
Lab File: VX003028.D
Acq: 29 Jun 2018 14:58

Tgt Ion: 43 Resp: 670
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#

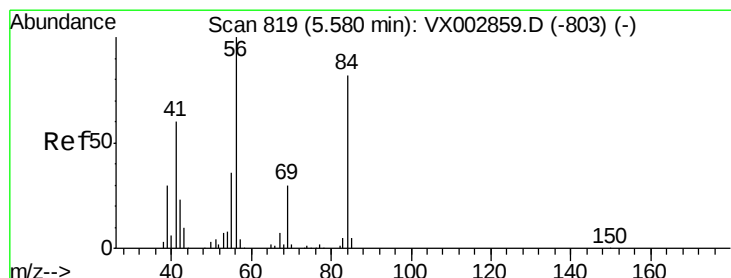
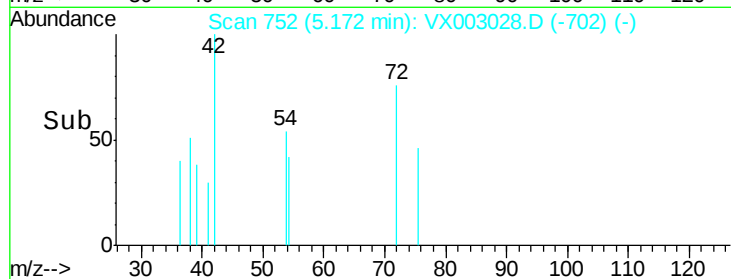
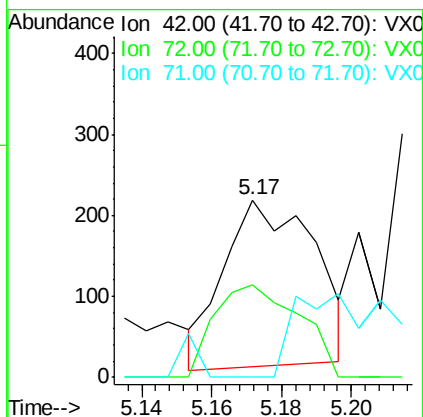
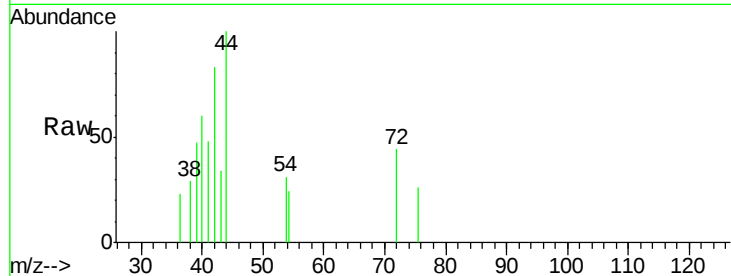




#29
Tetrahydrofuran
Concen: 0.25 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX003028.D
Acq: 29 Jun 2018 14:58

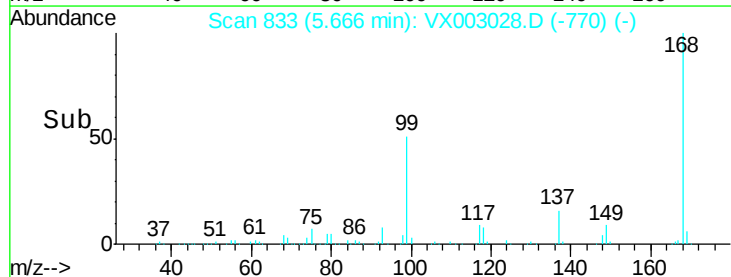
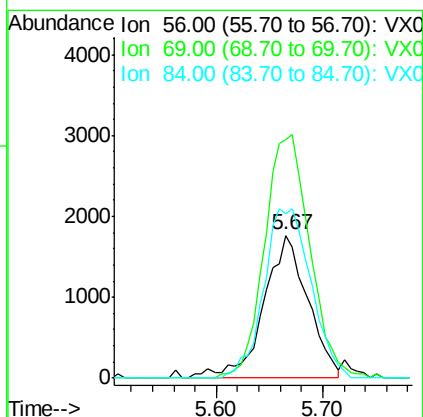
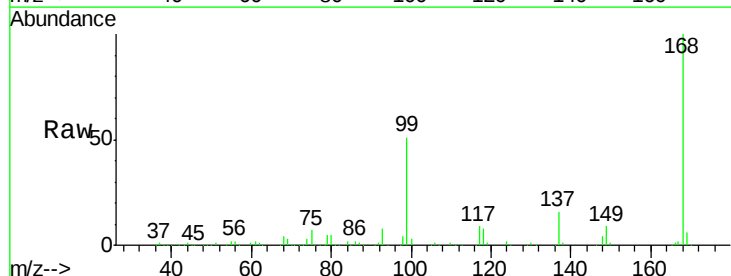
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 42 Resp: 370
Ion Ratio Lower Upper
42 100
72 52.2 32.0 48.0#
71 5.4 30.1 45.1#



#31
Cyclohexane
Concen: 1.08 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX003028.D
Acq: 29 Jun 2018 14:58

Tgt Ion: 56 Resp: 5076
Ion Ratio Lower Upper
56 100
69 166.4 23.7 35.5#
84 114.7 64.1 96.1#

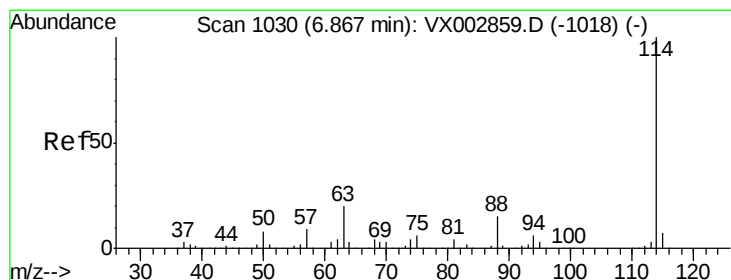
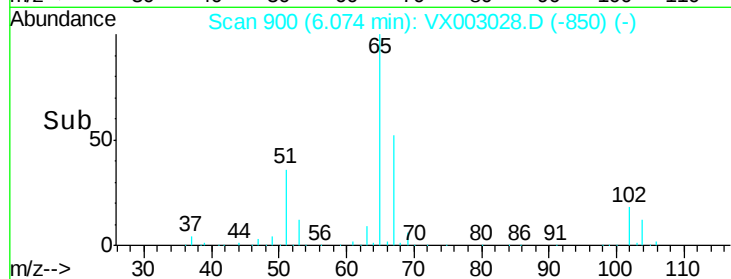
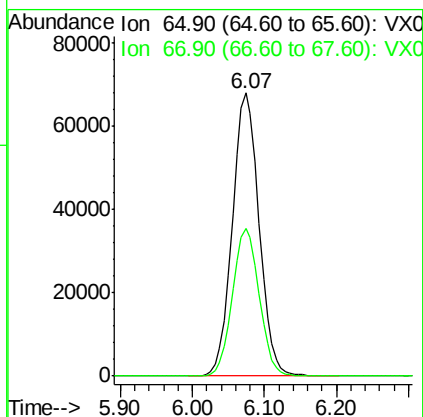
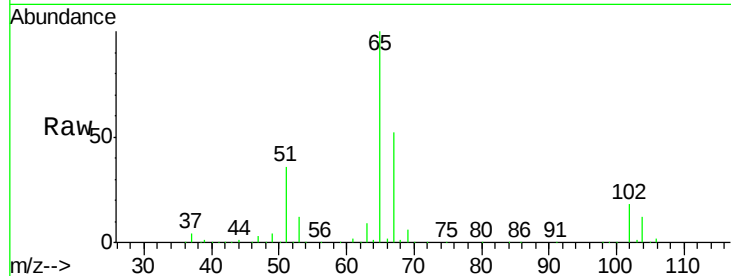




#33
 1,2-Dichloroethane-d4
 Concen: 46.94 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003028.D
 Acq: 29 Jun 2018 14:58

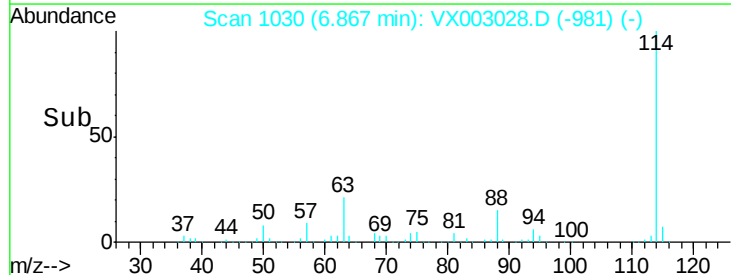
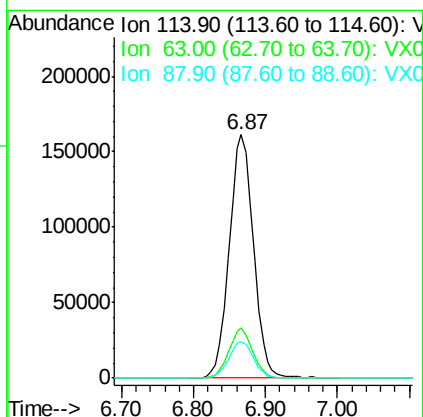
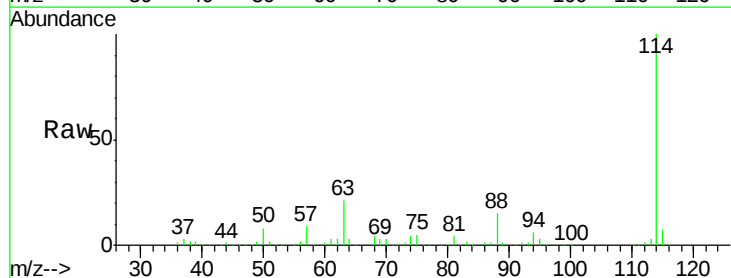
Instrument :
 MSVOA_X
 ClientSampleId :

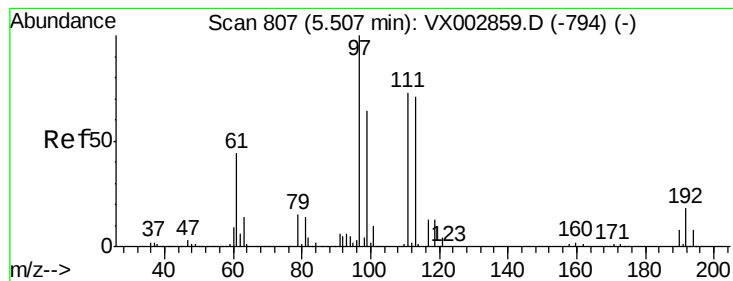
Tot Ion: 65 Resp: 175314
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003028.D
 Acq: 29 Jun 2018 14:58

Tgt Ion: 114 Resp: 377368
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.4
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.53 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

Instrument :
MSVOA_X
ClientSampleId :

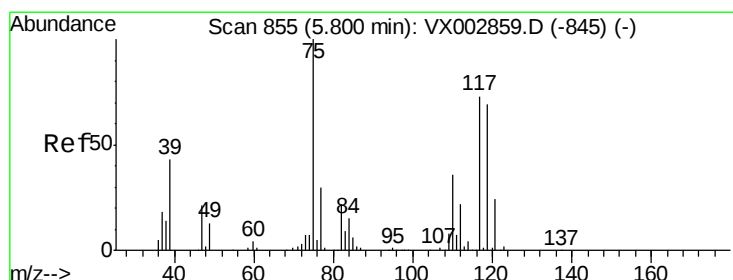
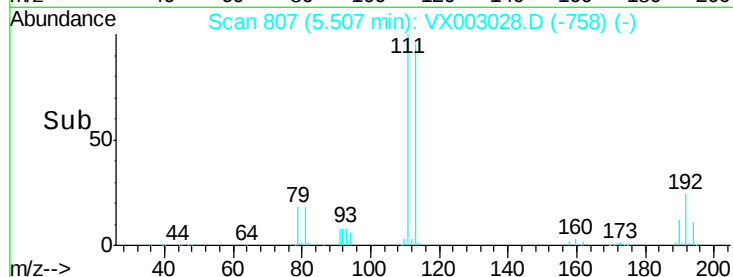
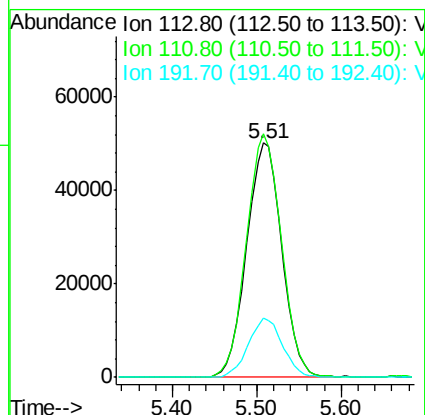
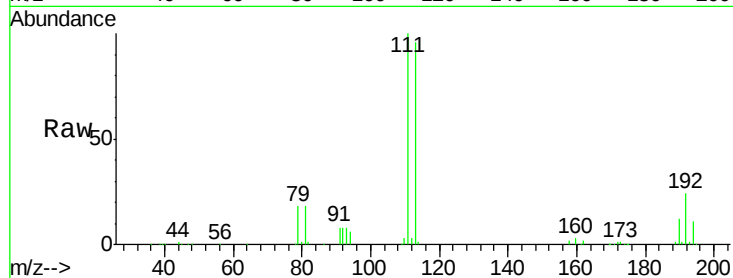
Tot Ion:113 Resp: 142040

Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.0

192 24.7 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.40 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

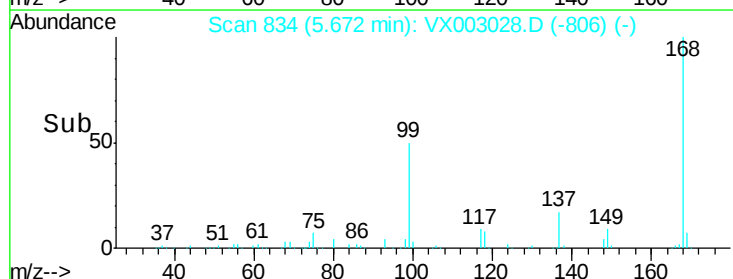
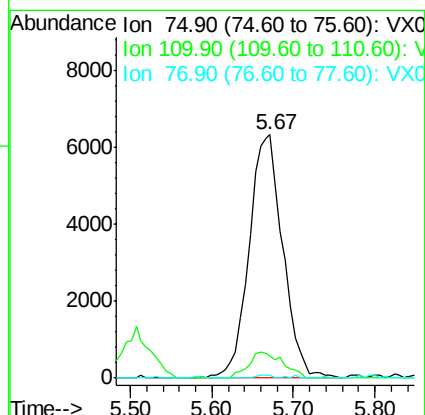
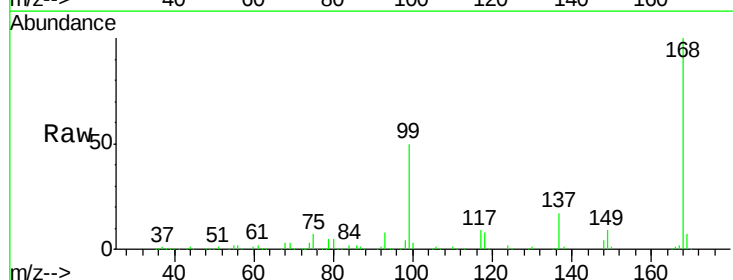
Tgt Ion: 75 Resp: 18207

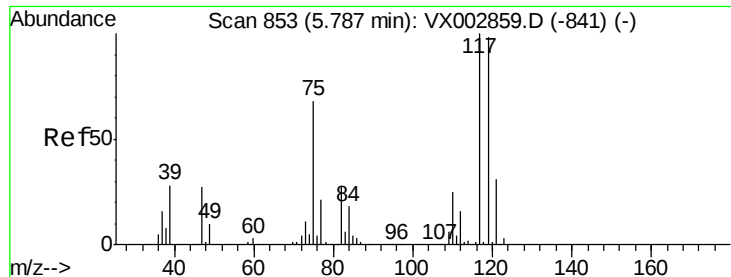
Ion Ratio Lower Upper

75 100

110 10.8 18.1 54.4#

77 0.5 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.36 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

Instrument :
MSVOA_X
ClientSampleId :

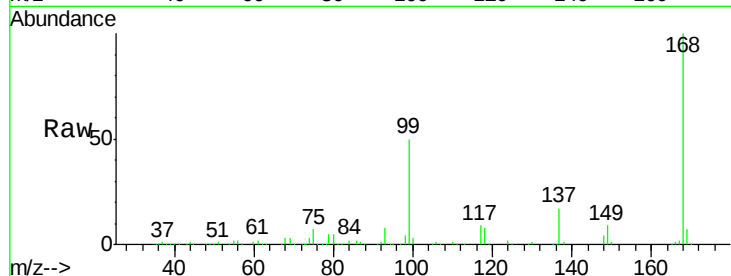
Tot Ion:117 Resp: 24337

Ion Ratio Lower Upper

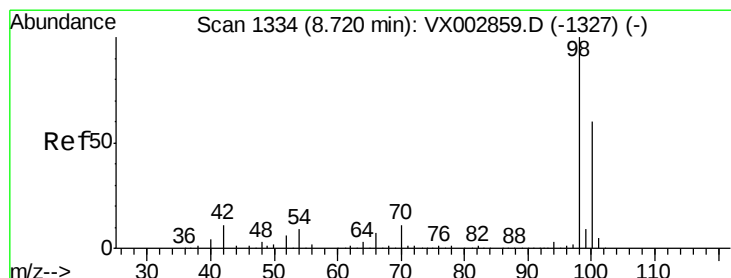
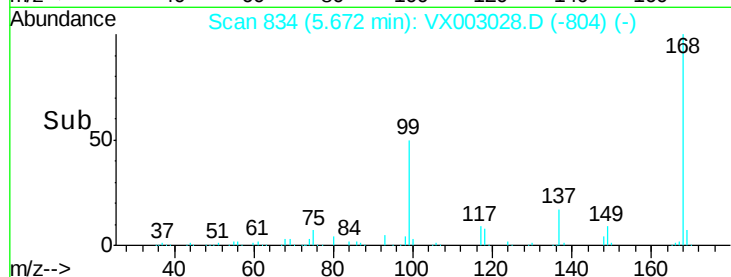
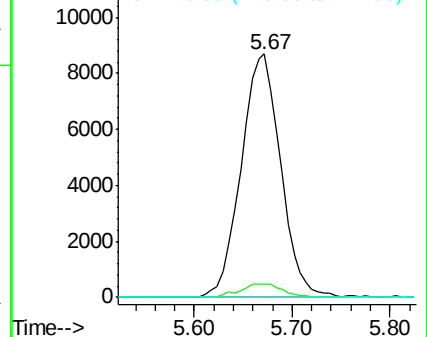
117 100

119 5.2 77.4 116.0#

121 0.0 24.4 36.6#



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: 48.09 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003028.D

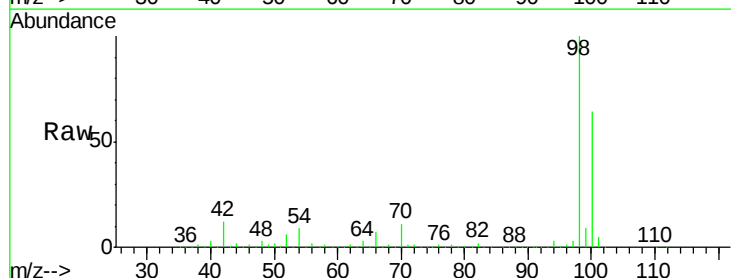
Acq: 29 Jun 2018 14:58

Tgt Ion: 98 Resp: 524830

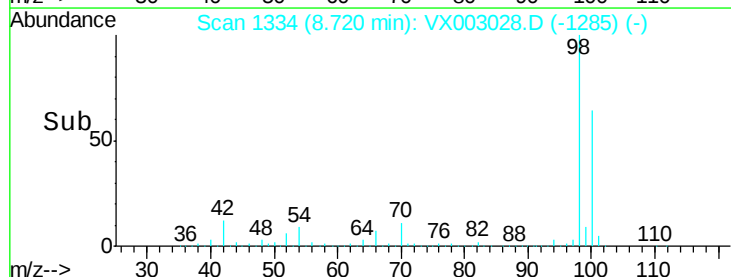
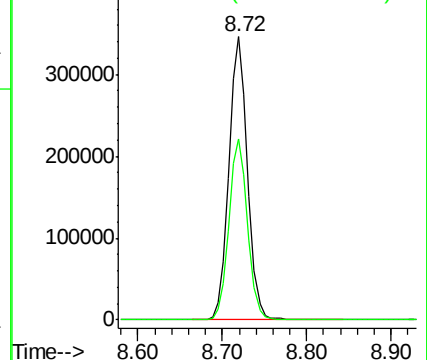
Ion Ratio Lower Upper

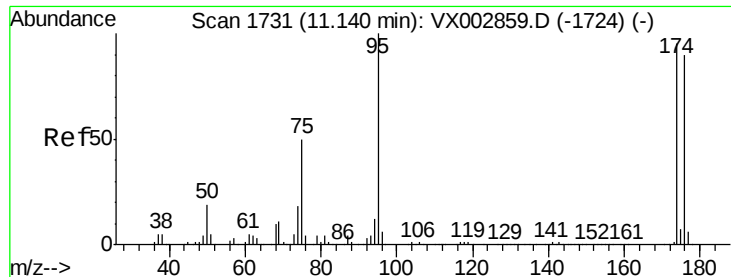
98 100

100 64.0 50.9 76.3



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

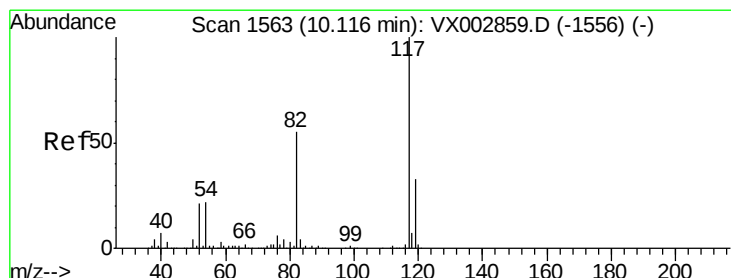
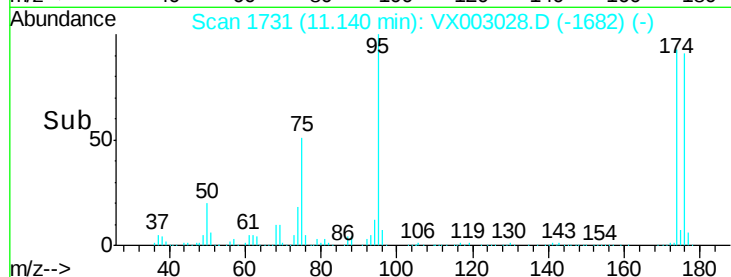
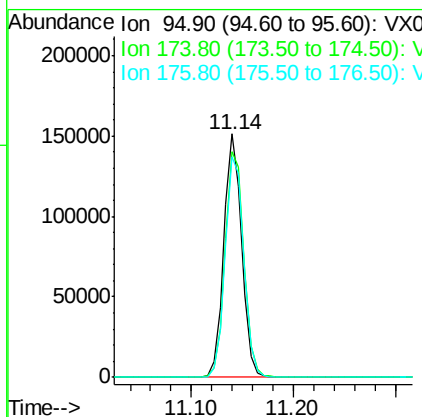
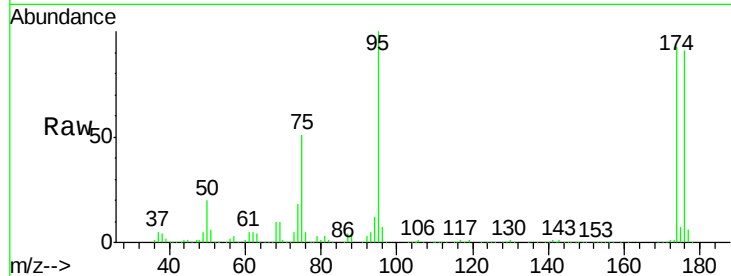




#62
4-Bromofluorobenzene
Concen: 43.80 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003028.D
Acq: 29 Jun 2018 14:58

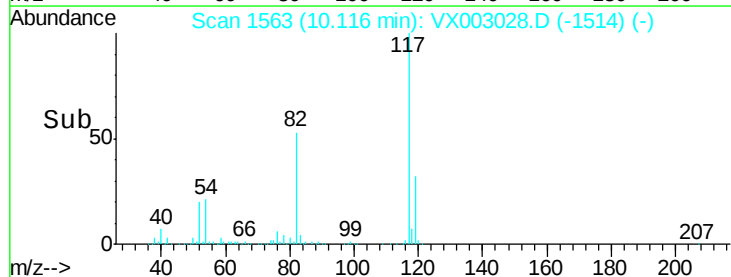
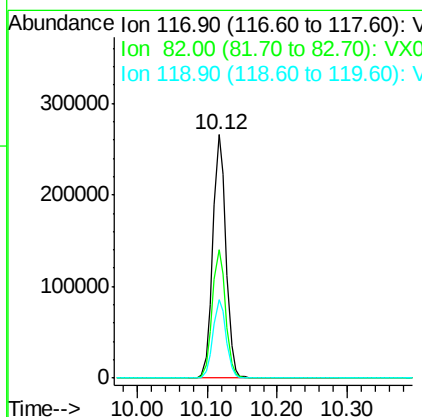
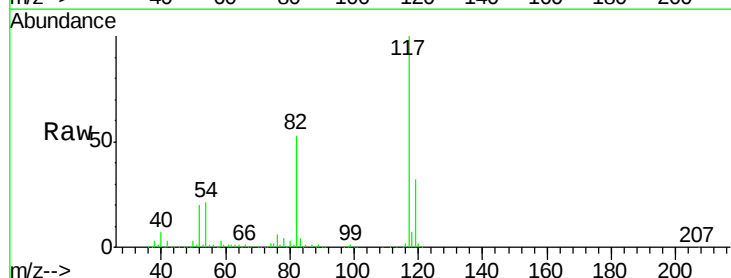
Instrument :
MSVOA_X
ClientSampleId :

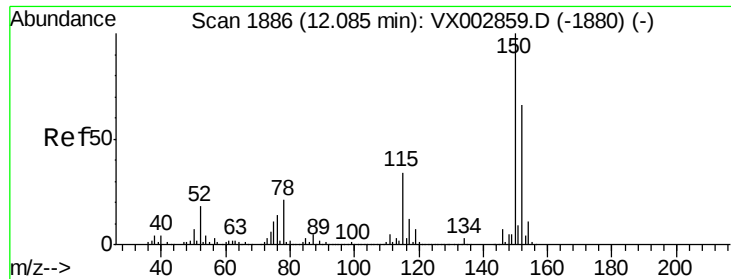
Tot Ion: 95 Resp: 184359
Ion Ratio Lower Upper
95 100
174 96.7 0.0 187.4
176 93.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003028.D
Acq: 29 Jun 2018 14:58

Tgt Ion: 117 Resp: 347510
Ion Ratio Lower Upper
117 100
82 52.8 45.0 67.4
119 32.2 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003028.D

Acq: 29 Jun 2018 14:58

Instrument :

MSVOA_X

ClientSampled :

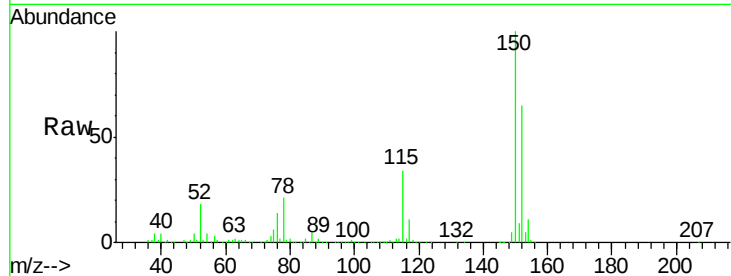
Tot Ion:152 Resp: 193530

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

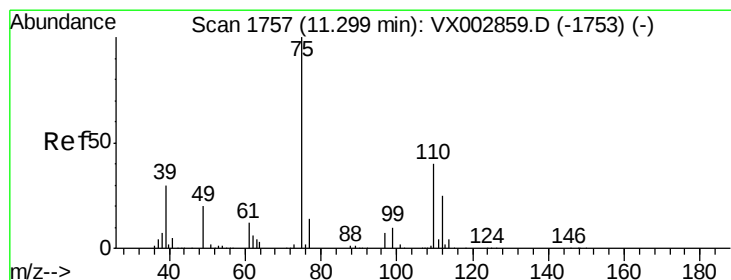
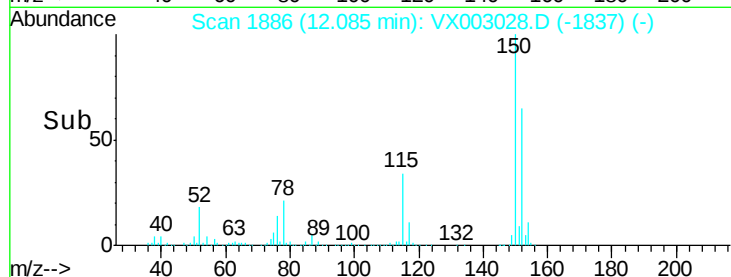
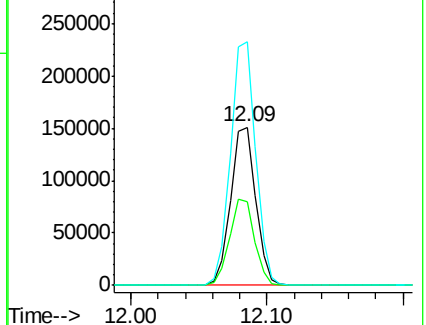
150 154.7 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003028.D

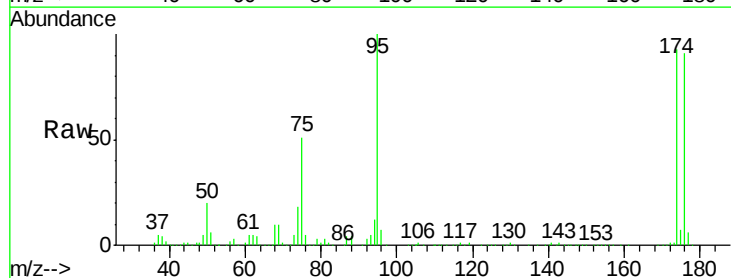
Acq: 29 Jun 2018 14:58

Tgt Ion: 75 Resp: 94473

Ion Ratio Lower Upper

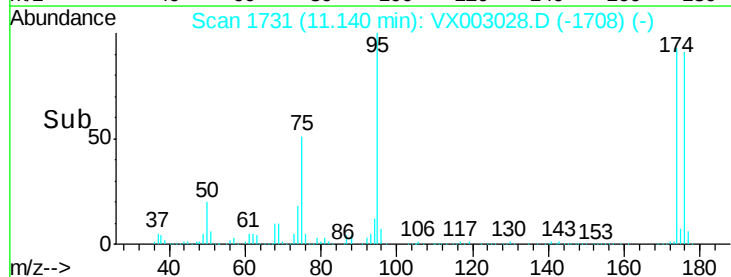
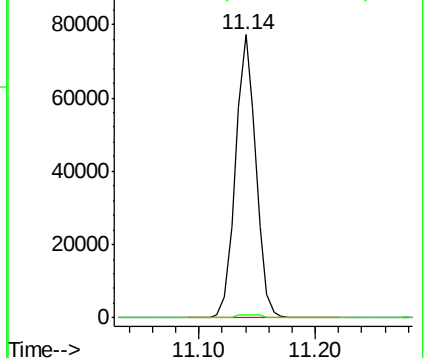
75 100

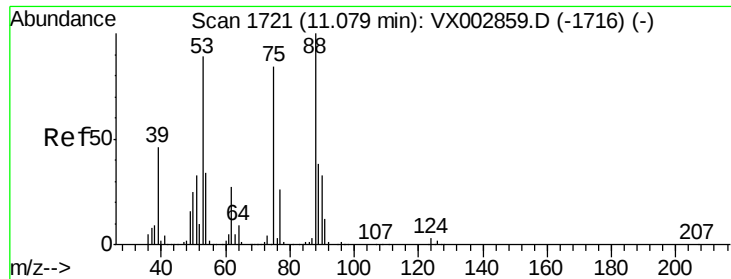
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.30 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003028.D
 Acq: 29 Jun 2018 14:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 94473
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

