

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
 Data File : VX003033.D
 Acq On : 29 Jun 2018 17:11
 Operator : JC/MD
 Sample : J3695-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 29 23:29:26 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	261820	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	359742	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329938	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	183804	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	168633	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
35) Dibromofluoromethane	5.51	113	139046	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	8.72	98	501560	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
62) 4-Bromofluorobenzene	11.14	95	172921	43.10	ug/l	0.00
Spiked Amount			Recovery	=	86.20%	

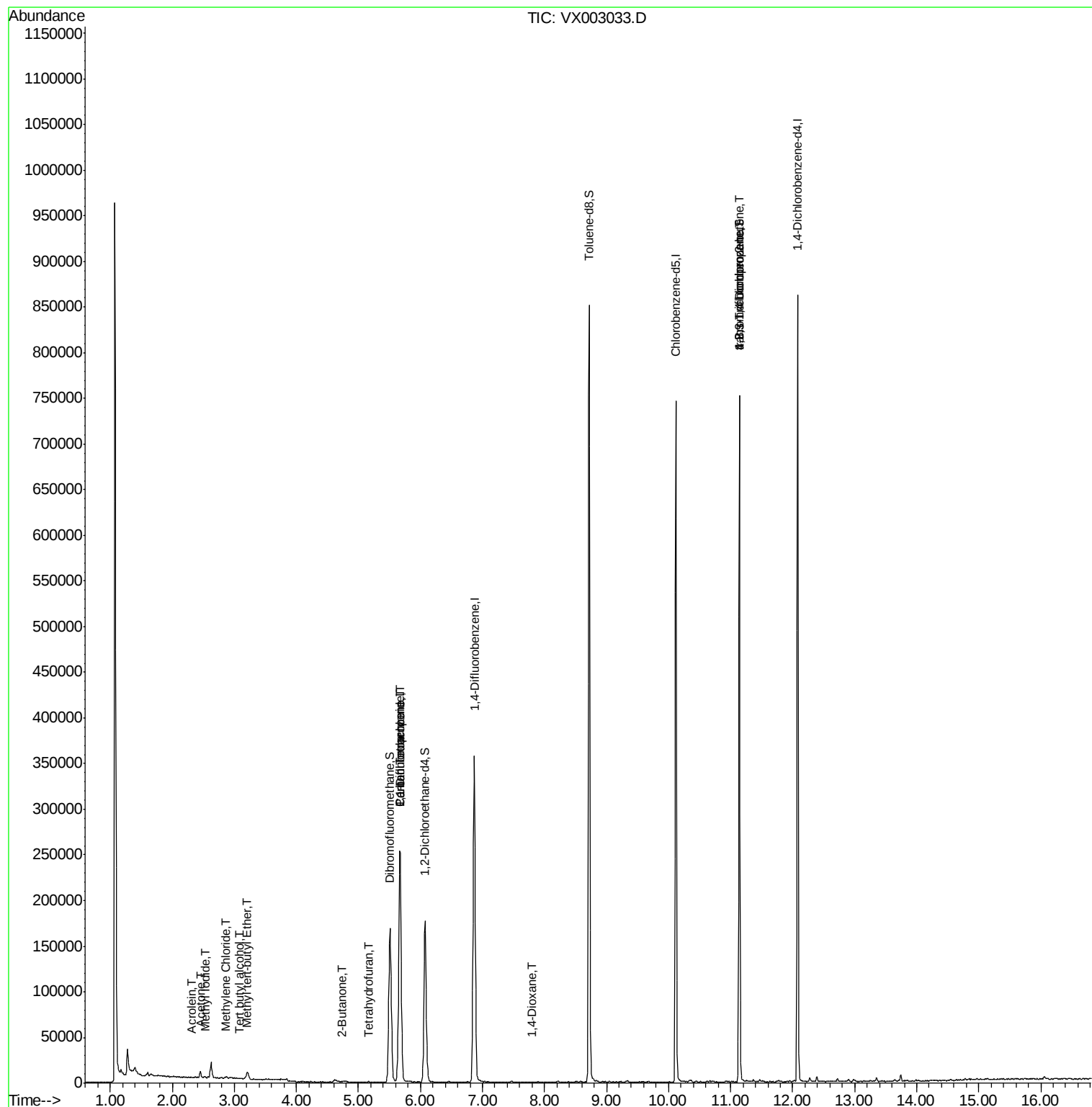
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	212	Below Cal	#	43
3) Chloromethane	1.33	50	434	Below Cal		97
5) Bromomethane	1.61	94	148	Below Cal	#	3
6) Chloroethane	1.73	64	623	Below Cal	#	57
10) Methyl Iodide	2.53	142	1639	6.71	ug/l	99
11) Tert butyl alcohol	3.08	59	880	1.22	ug/l	# 80
13) Acrolein	2.31	56	313	5.00	ug/l	# 40
16) Acetone	2.45	43	7160	4.78	ug/l	# 88
19) Methyl tert-butyl Ether	3.21	73	8339	0.90	ug/l	# 94
20) Methylene Chloride	2.85	84	881	0.30	ug/l	# 74
25) 2-Butanone	4.73	43	855	0.38	ug/l	# 91
29) Tetrahydrofuran	5.17	42	390	0.27	ug/l	# 36
36) 1,1-Dichloropropene	5.67	75	16721	4.24	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23513	5.43	ug/l	# 17
49) 1,4-Dioxane	7.79	88	22	0.31	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	89236	26.80	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	89236	75.90	ug/l	# 7

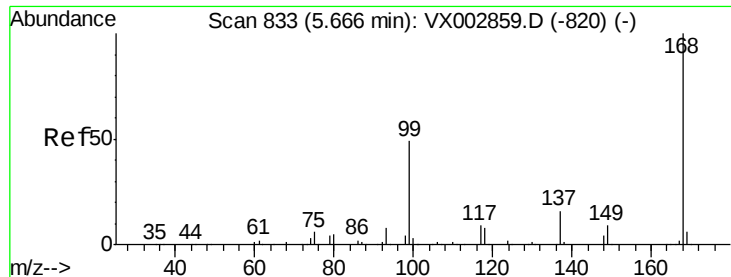
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062918\
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

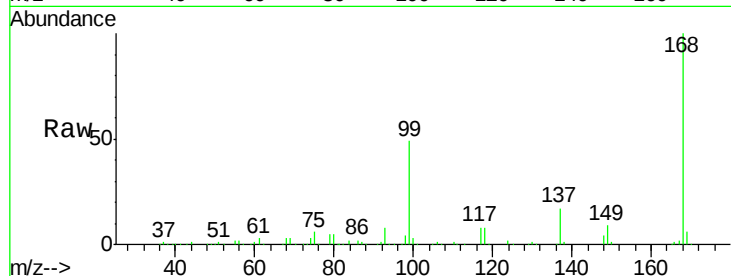
ClientSampleId :

Tot Ion:168 Resp: 261820

Ion Ratio Lower Upper

168 100

99 49.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

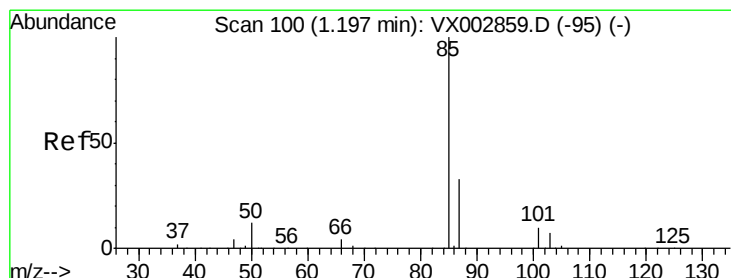
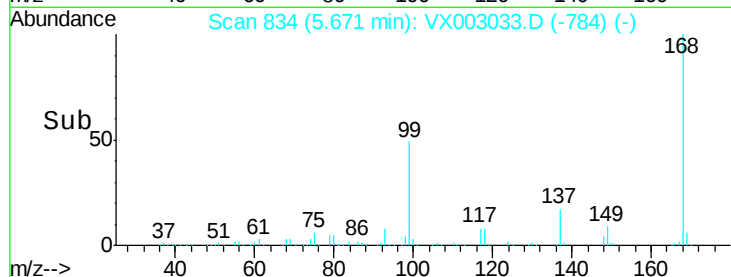
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003033.D

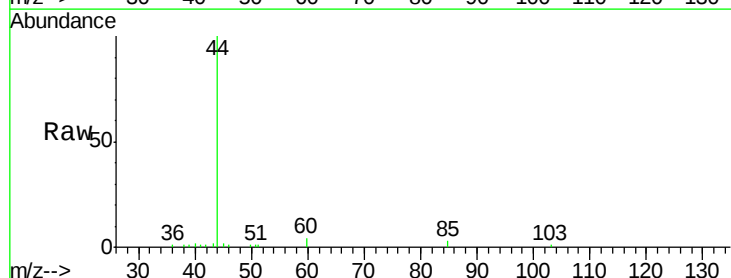
Acq: 29 Jun 2018 17:11

Tgt Ion: 85 Resp: 212

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

1.20

250

200

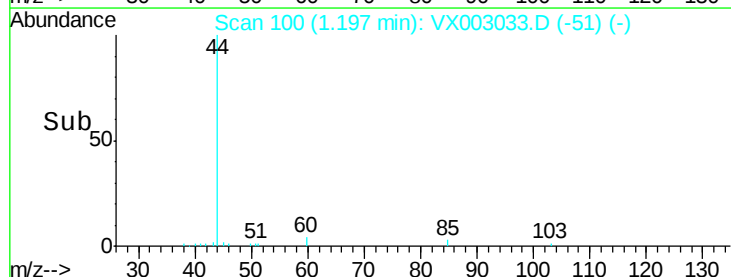
150

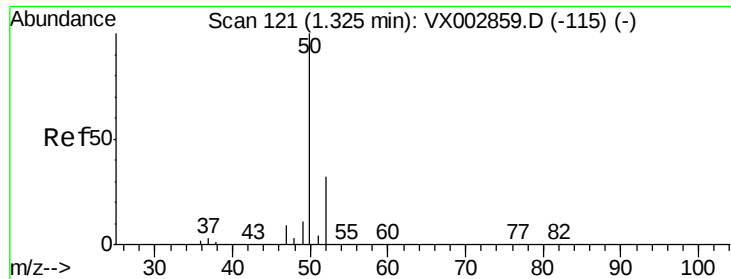
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

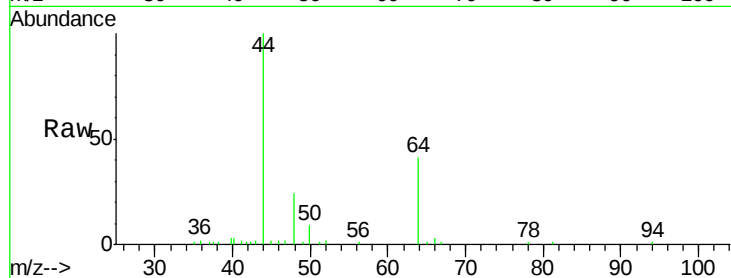
ClientSampled :

Tot Ion: 50 Resp: 434

Ion Ratio Lower Upper

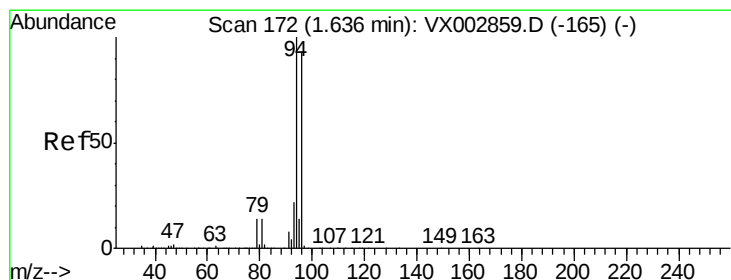
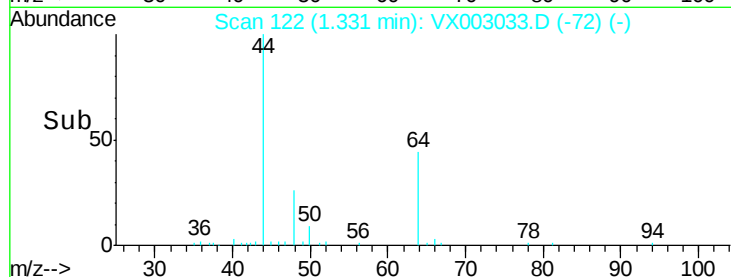
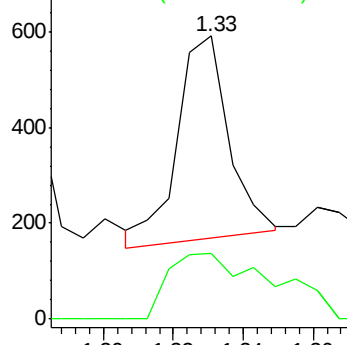
50 100

52 33.8 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX003033.D

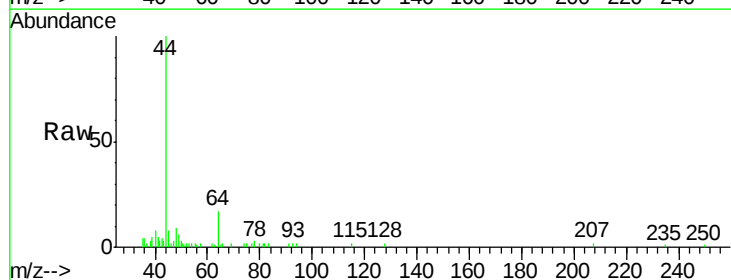
Acq: 29 Jun 2018 17:11

Tgt Ion: 94 Resp: 148

Ion Ratio Lower Upper

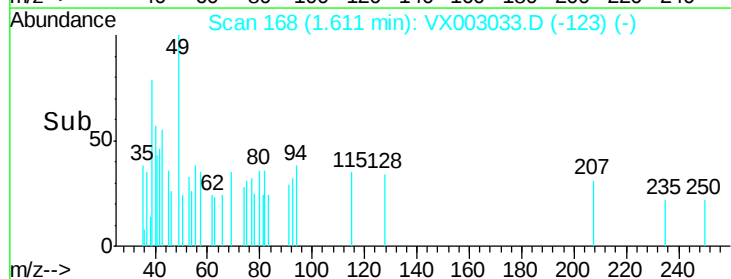
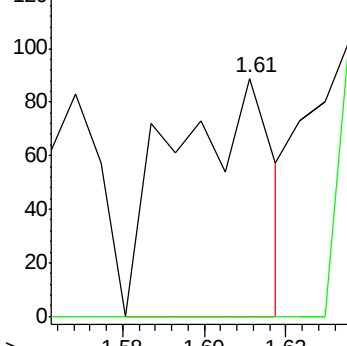
94 100

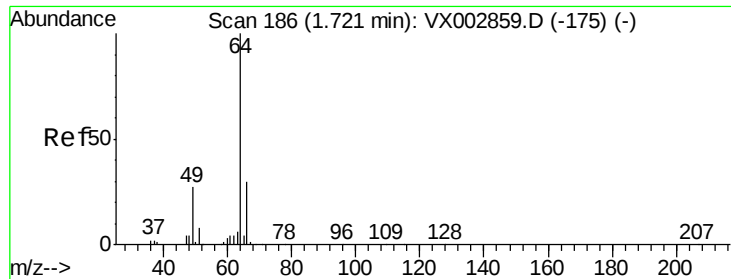
96 0.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

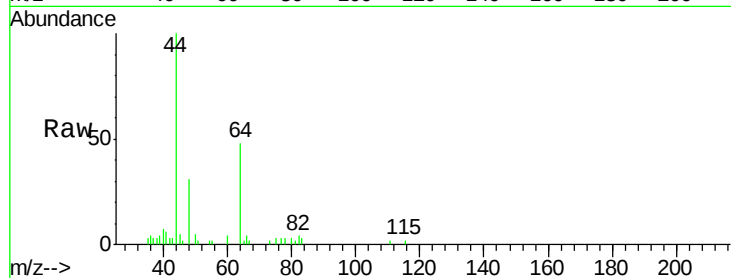
ClientSampleId :

Tot Ion: 64 Resp: 623

Ion Ratio Lower Upper

64 100

66 7.7 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

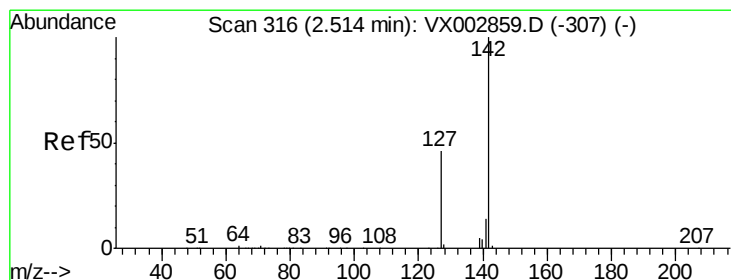
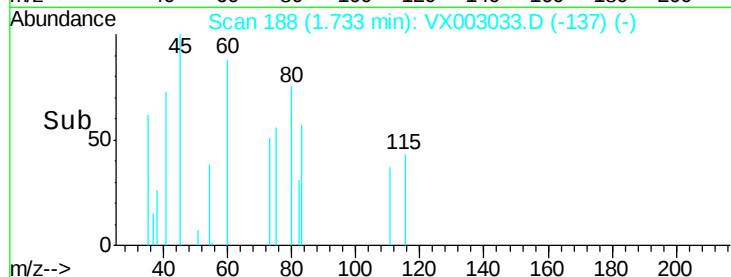
1.73

1000

500

0

Time-->



#10

Methyl Iodide

Concen: 6.71 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

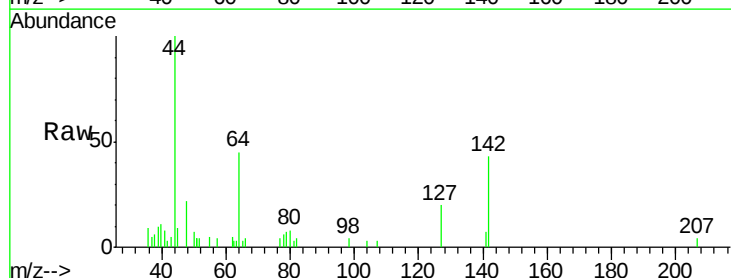
Tgt Ion:142 Resp: 1639

Ion Ratio Lower Upper

142 100

127 45.9 36.6 55.0

141 15.3 11.3 16.9



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

2.53

1000

800

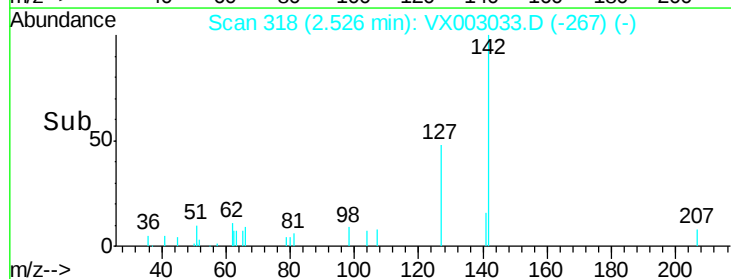
600

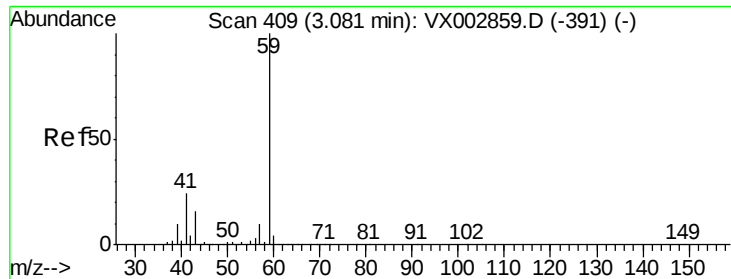
400

200

0

Time-->

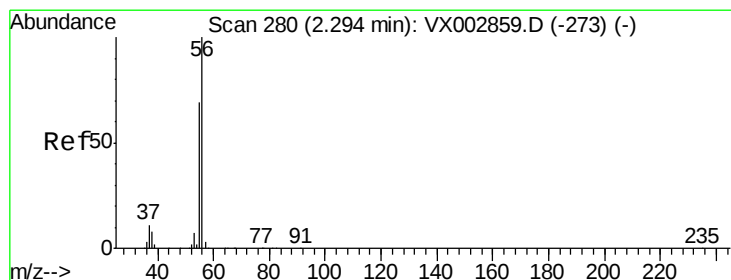
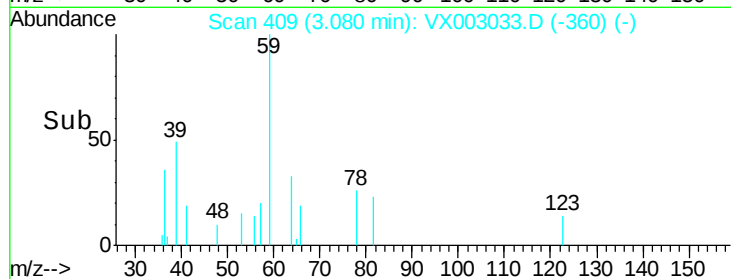
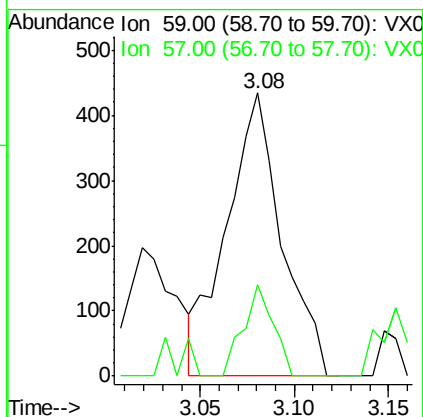
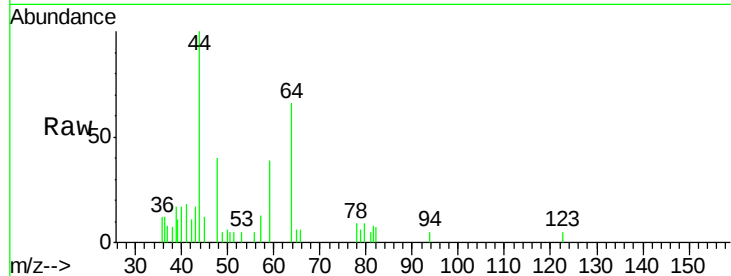




#11
Tert butyl alcohol
Concen: 1.22 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX003033.D
Acq: 29 Jun 2018 17:11

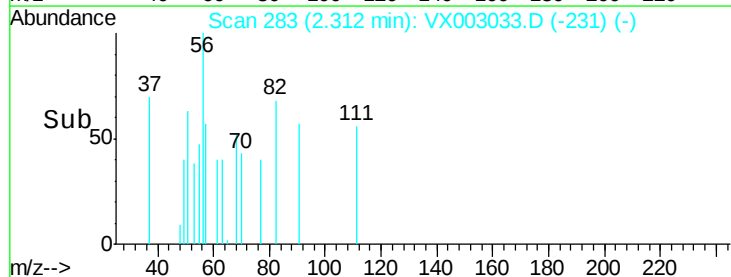
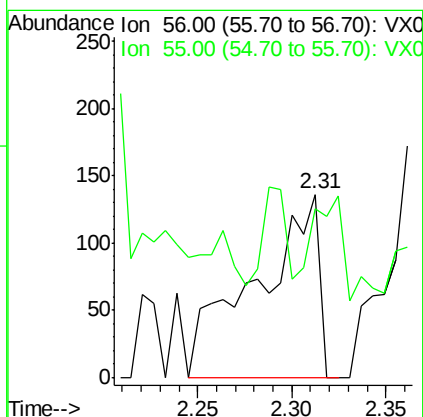
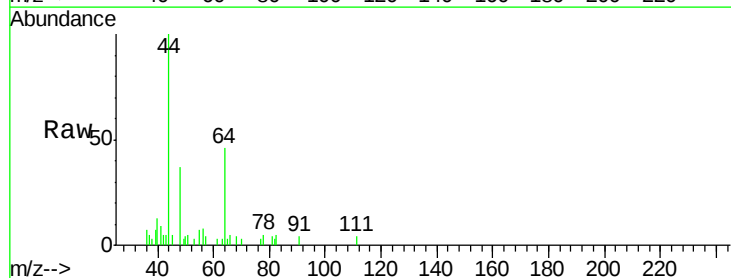
Instrument :
MSVOA_X
ClientSampled :

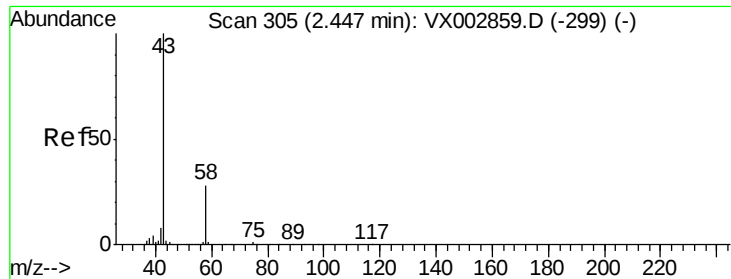
Tot Ion: 59 Resp: 880
Ion Ratio Lower Upper
59 100
57 17.6 8.2 12.2#



#13
Acrolein
Concen: 5.00 ug/l
RT: 2.31 min Scan# 283
Delta R.T. 0.02 min
Lab File: VX003033.D
Acq: 29 Jun 2018 17:11

Tgt Ion: 56 Resp: 313
Ion Ratio Lower Upper
56 100
55 21.4 57.0 85.4#





#16

Acetone

Concen: 4.78 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

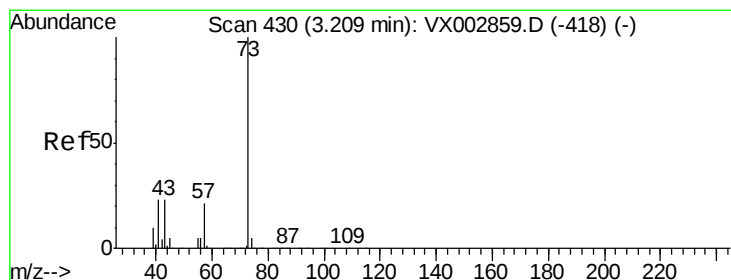
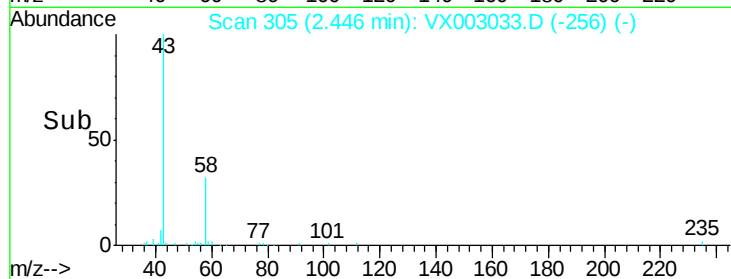
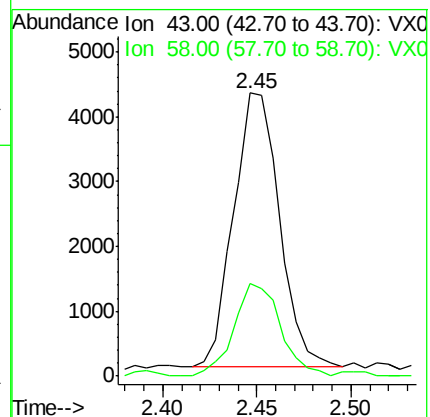
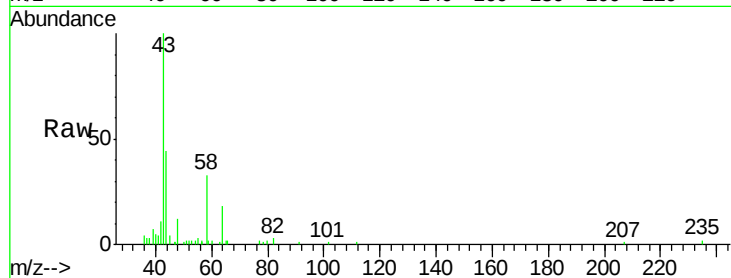
ClientSampleId :

Tot Ion: 43 Resp: 7160

Ion Ratio Lower Upper

43 100

58 33.9 22.1 33.1#



#19

Methyl tert-butyl Ether

Concen: 0.90 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.00 min

Lab File: VX003033.D

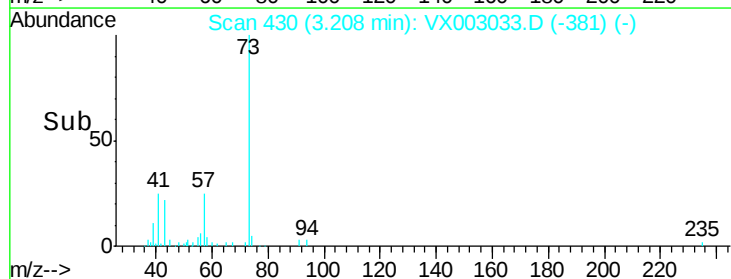
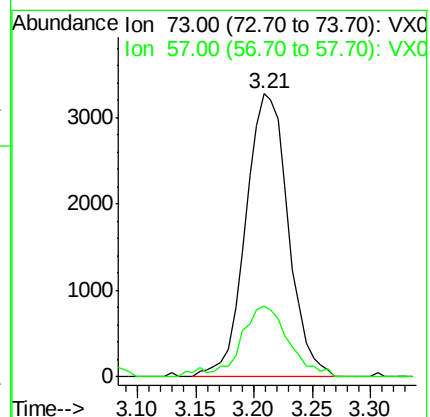
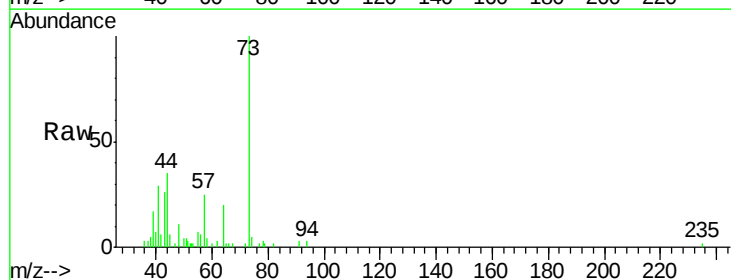
Acq: 29 Jun 2018 17:11

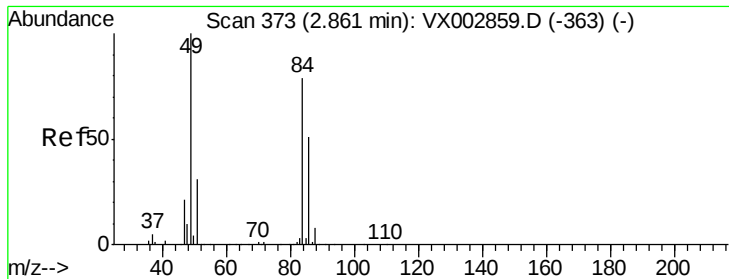
Tgt Ion: 73 Resp: 8339

Ion Ratio Lower Upper

73 100

57 25.0 17.7 26.5





#20

Methvlene Chloride

Concen: 0.30 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 84 Resp: 881

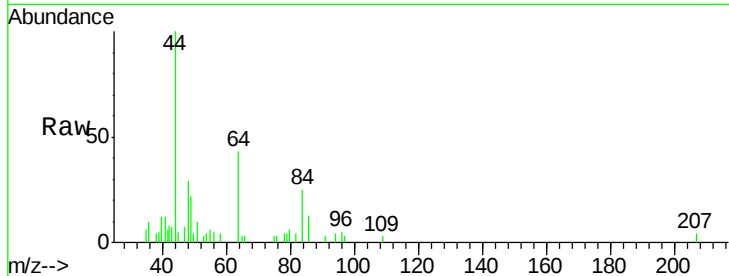
Ion Ratio Lower Upper

84 100

49 90.1 107.8 161.6#

51 40.6 32.8 49.2

86 51.8 52.5 78.7#

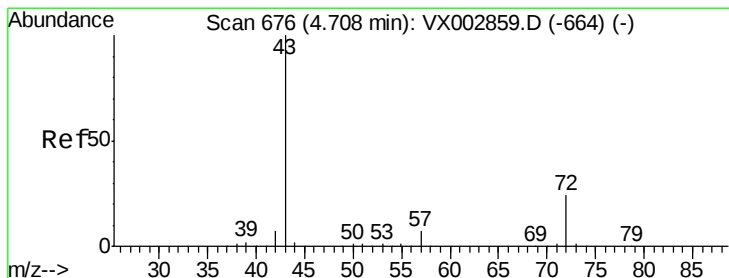
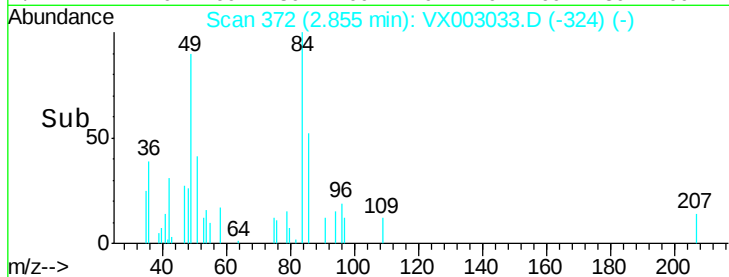
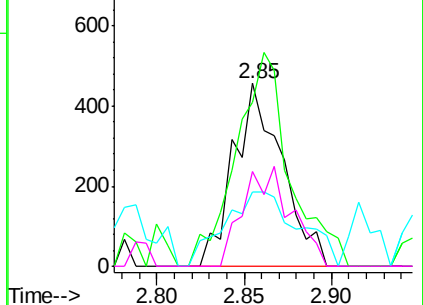


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.38 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX003033.D

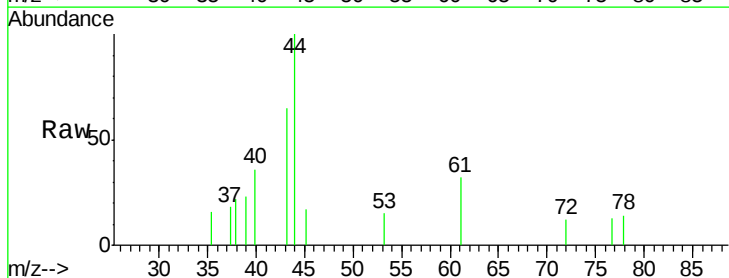
Acq: 29 Jun 2018 17:11

Tgt Ion: 43 Resp: 855

Ion Ratio Lower Upper

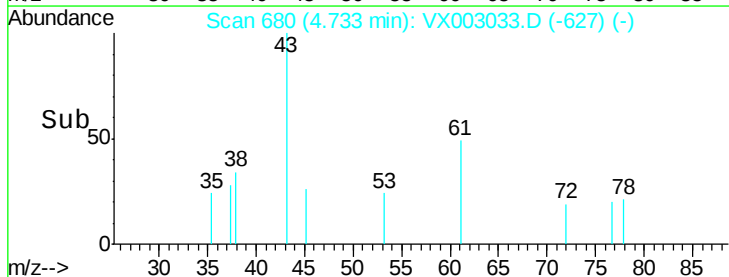
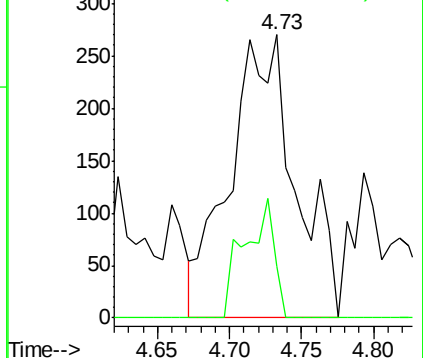
43 100

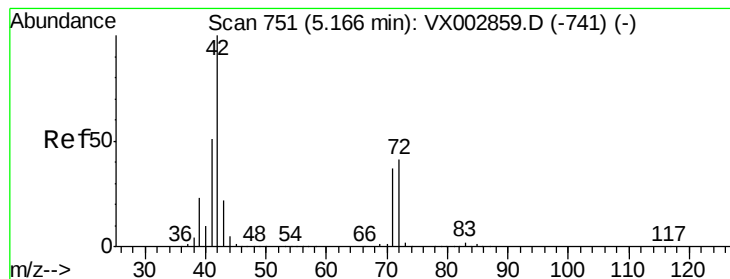
72 18.5 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.27 ug/l

RT: 5.17 min Scan# 751

Delta R.T. -0.00 min

Lab File: VX003033.D

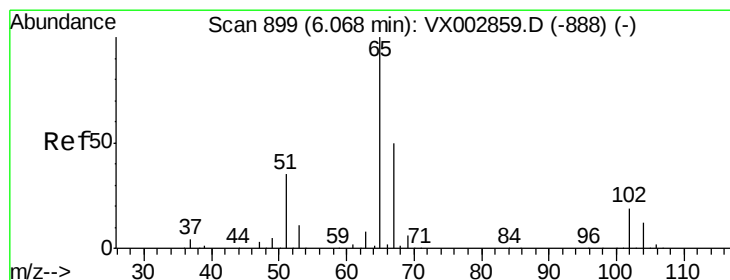
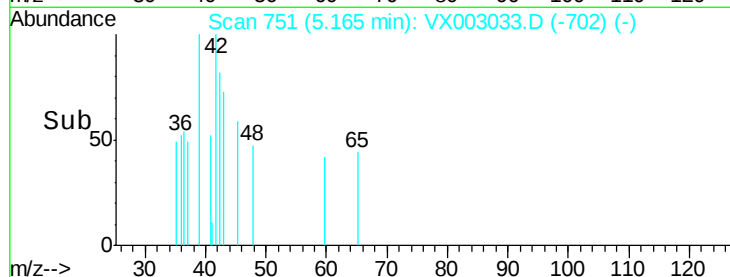
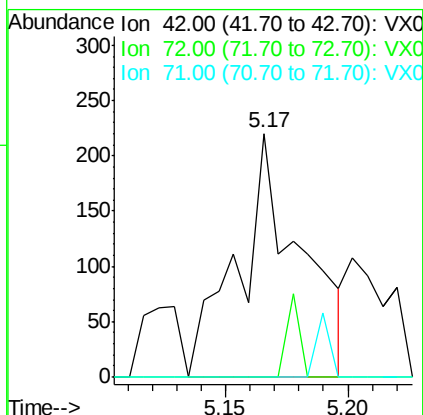
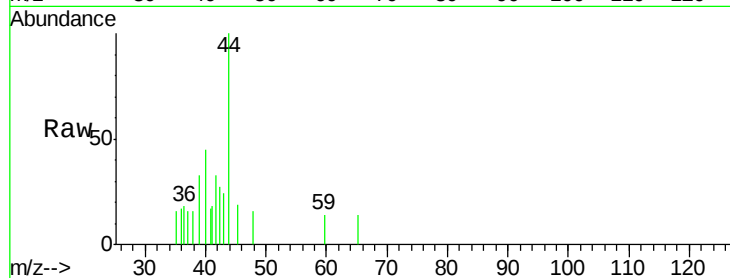
Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	42	Resp:	390
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.0	48.0#
71	0.0	30.1	45.1#



#33

1,2-Dichloroethane-d4

Concen: 46.60 ug/l

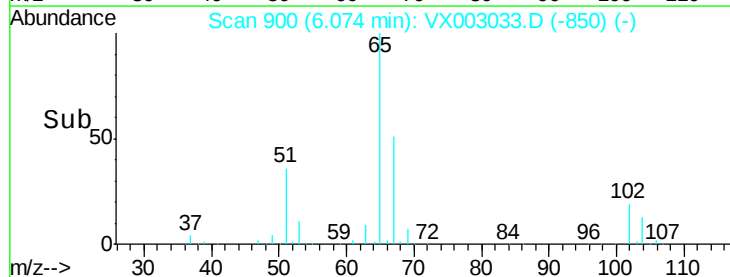
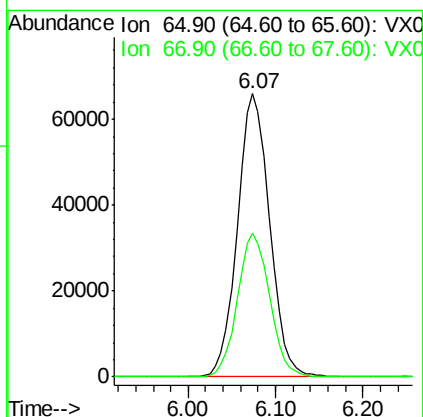
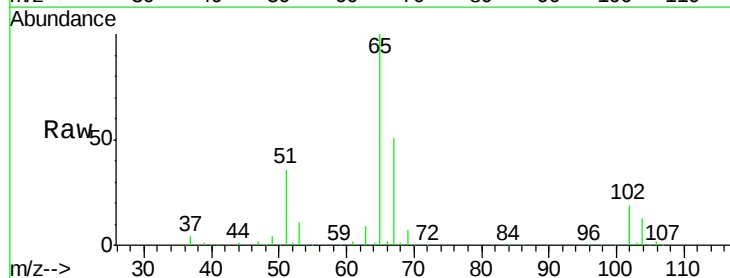
RT: 6.07 min Scan# 900

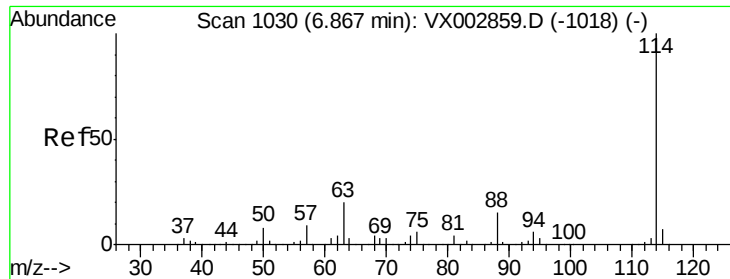
Delta R.T. 0.01 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Tgt Ion:	65	Resp:	168633
Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	102.6

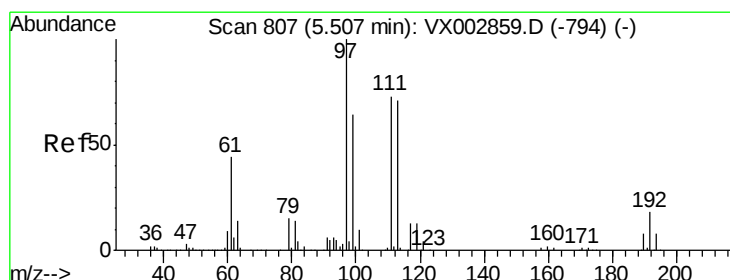
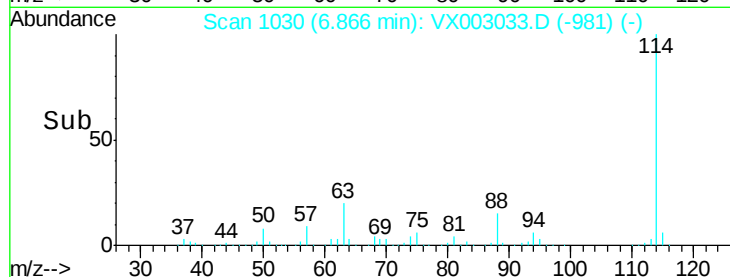
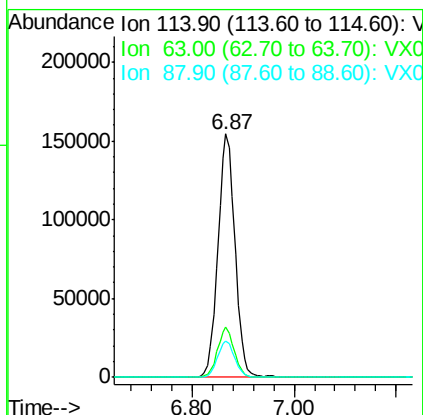
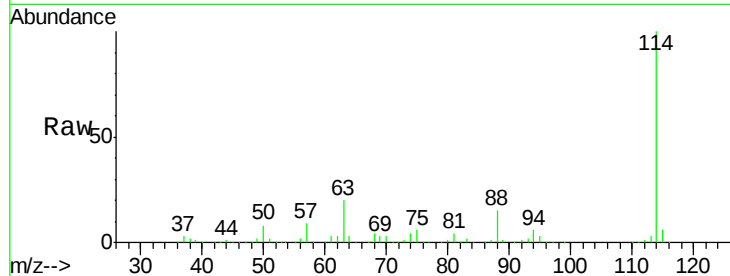




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003033.D
 Acq: 29 Jun 2018 17:11

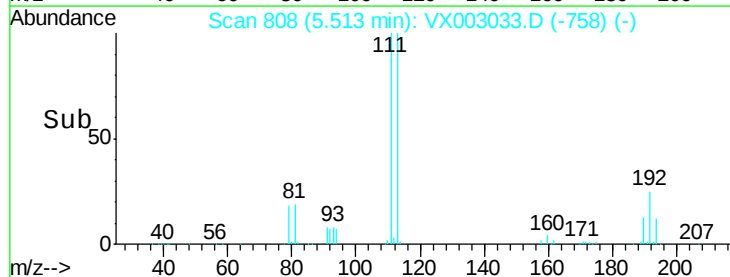
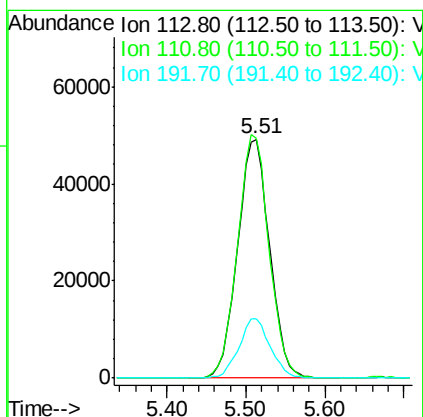
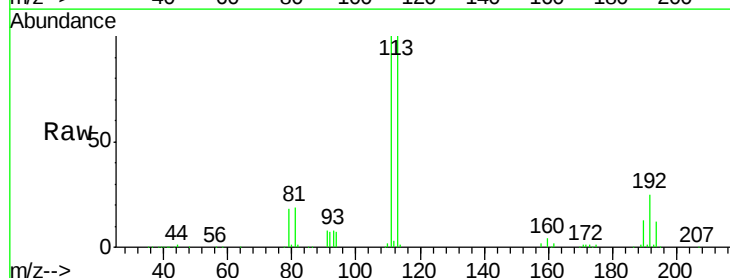
Instrument :
 MSVOA_X
 ClientSampleId :

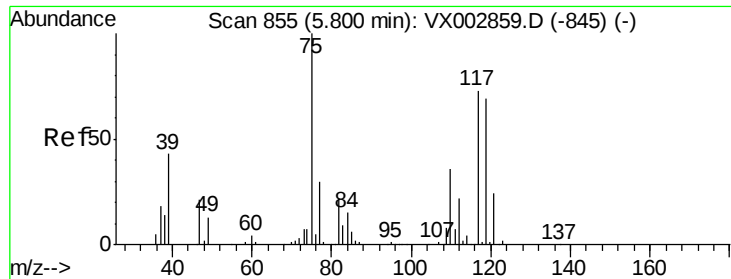
Tot Ion:114 Resp: 359742
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 15.0 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 48.81 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX003033.D
 Acq: 29 Jun 2018 17:11

Tgt Ion:113 Resp: 139046
 Ion Ratio Lower Upper
 113 100
 111 100.6 81.4 122.0
 192 24.2 19.1 28.7

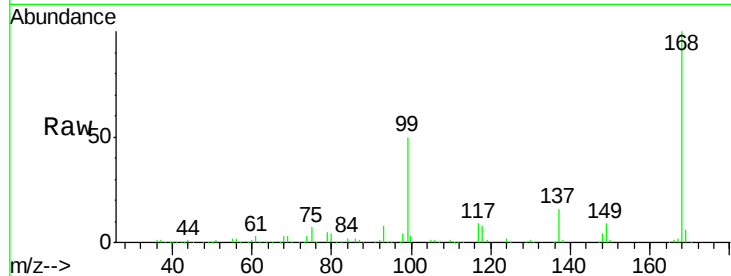




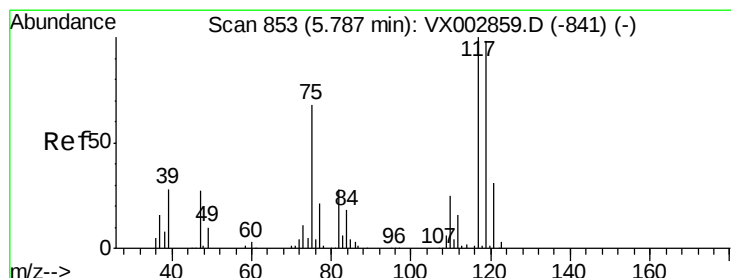
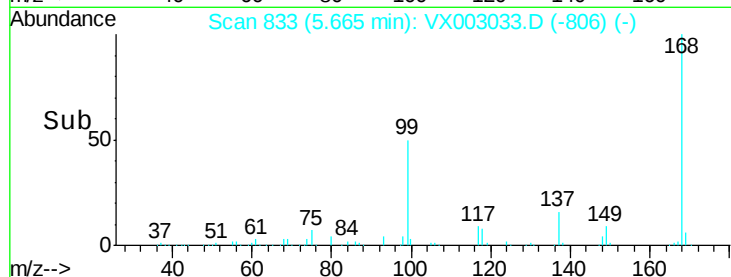
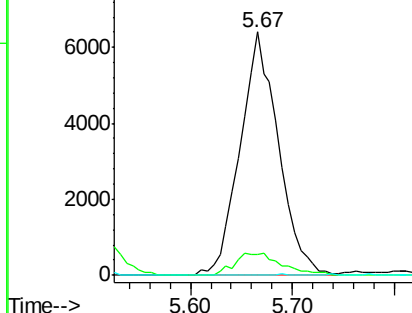
#36
 1,1-Dichloropropene
 Concen: 4.24 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003033.D
 Acq: 29 Jun 2018 17:11

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 16721
 Ion Ratio Lower Upper
 75 100
 110 11.2 18.1 54.4#
 77 0.0 24.3 36.5#

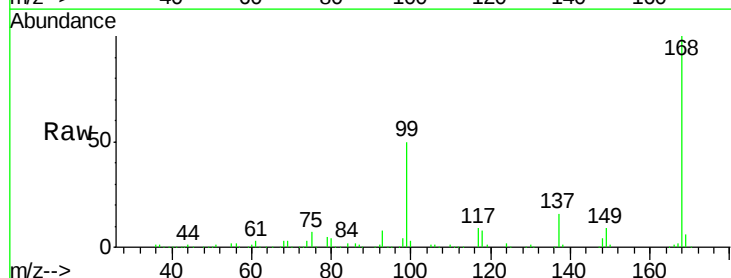


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

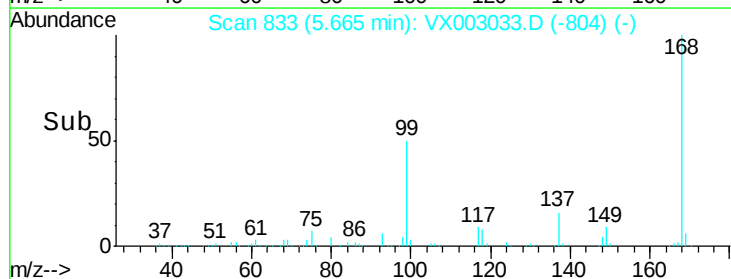
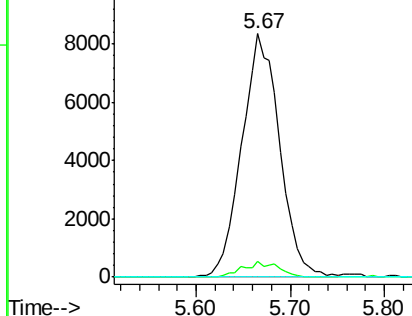


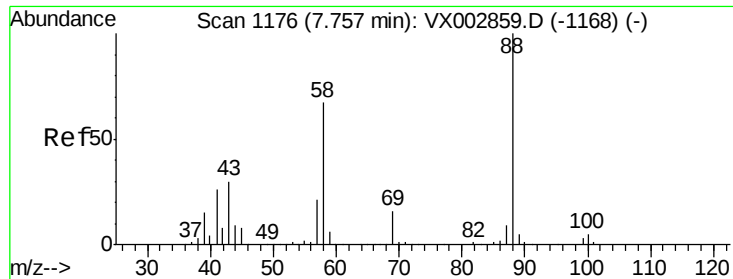
#38
 Carbon Tetrachloride
 Concen: 5.43 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003033.D
 Acq: 29 Jun 2018 17:11

Tgt Ion: 117 Resp: 23513
 Ion Ratio Lower Upper
 117 100
 119 6.3 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

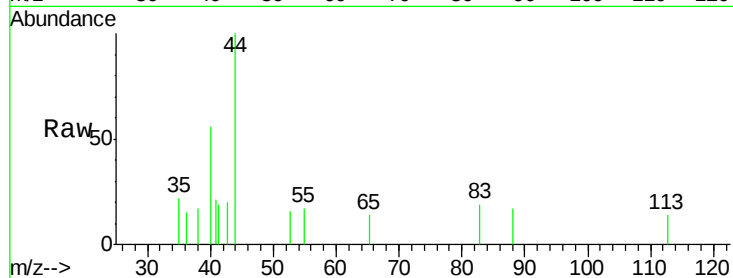




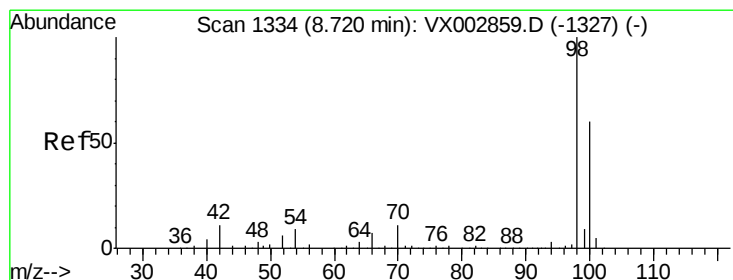
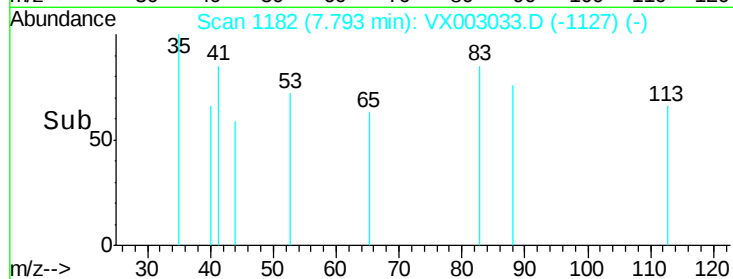
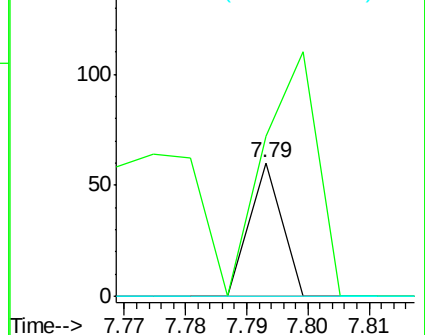
#49
1,4-Dioxane
Concen: 0.31 ug/l
RT: 7.79 min Scan# 1182
Delta R.T. 0.04 min
Lab File: VX003033.D
Acq: 29 Jun 2018 17:11

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 304.5 29.8 44.6#
58 0.0 57.1 85.7#

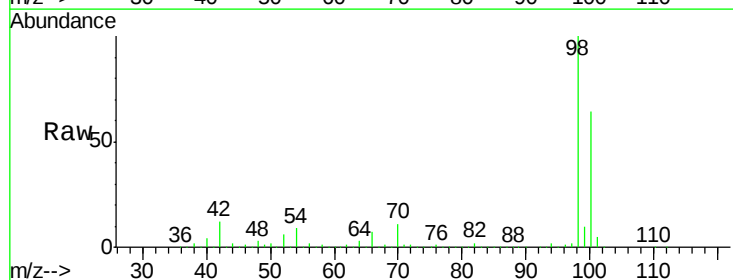


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

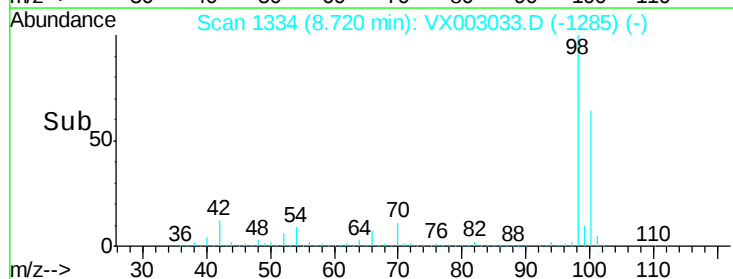
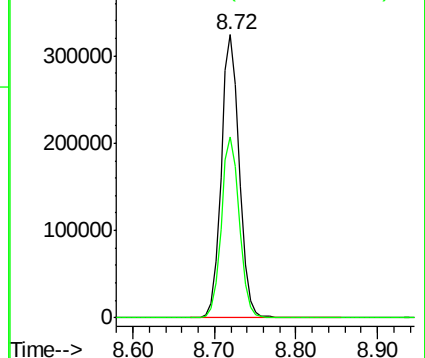


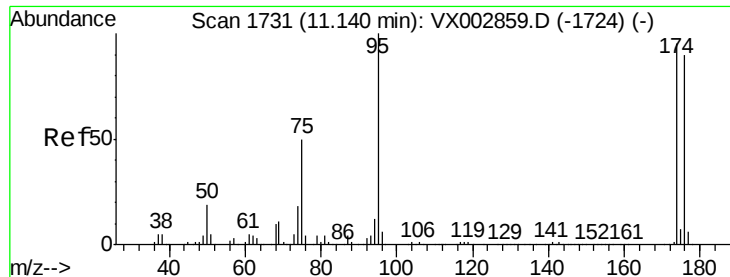
#50
Toluene-d8
Concen: 48.21 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003033.D
Acq: 29 Jun 2018 17:11

Tgt Ion: 98 Resp: 501560
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



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





#62

4-Bromofluorobenzene

Concen: 43.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

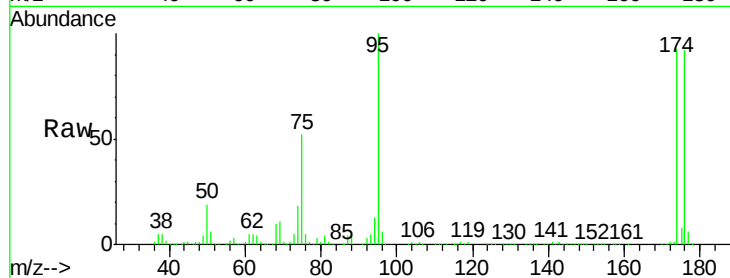
Tot Ion: 95 Resp: 172921

Ion Ratio Lower Upper

95 100

174 98.0 0.0 187.4

176 95.6 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)

11.14

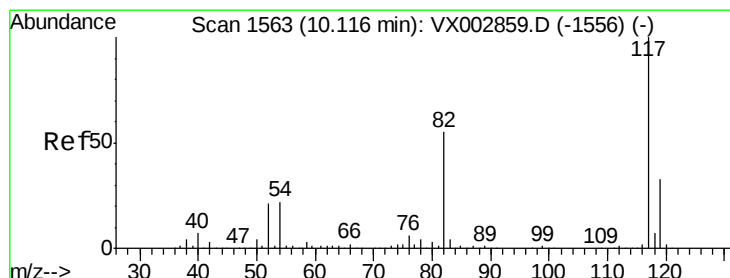
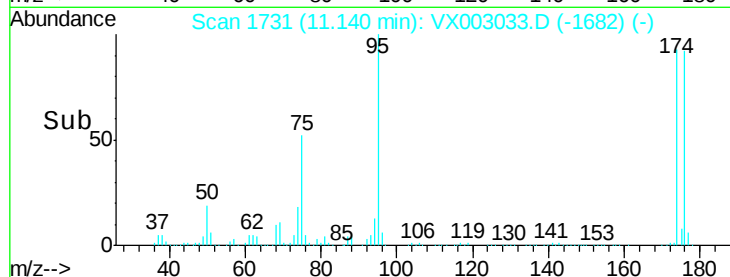
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

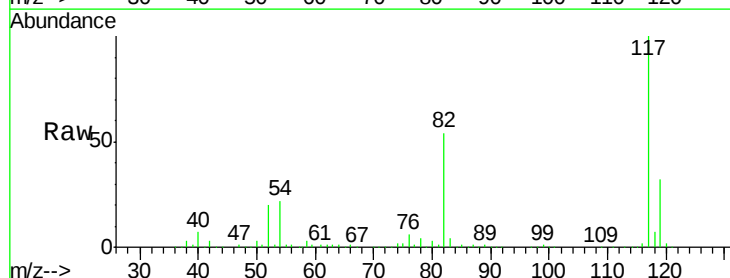
Tgt Ion: 117 Resp: 329938

Ion Ratio Lower Upper

117 100

82 53.8 45.0 67.4

119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

10.12

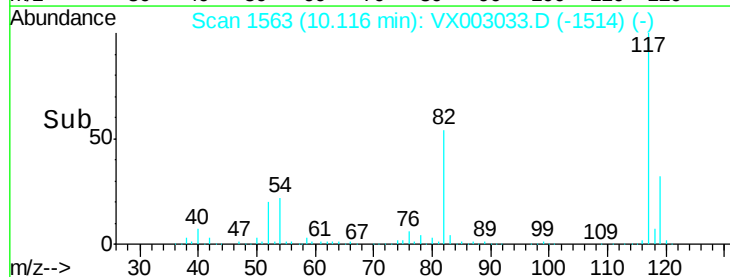
300000

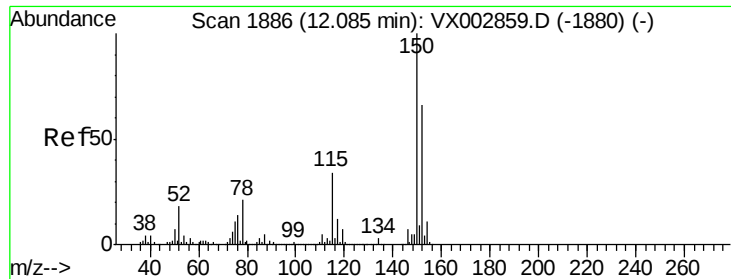
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

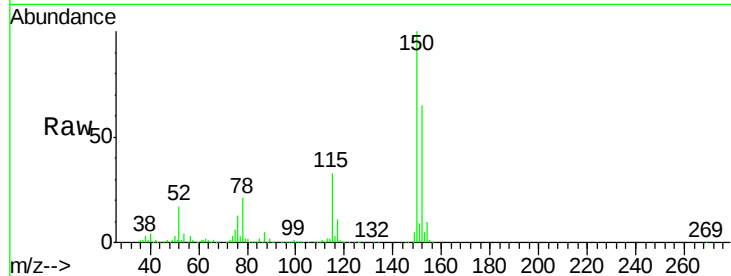
Tot Ion:152 Resp: 183804

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

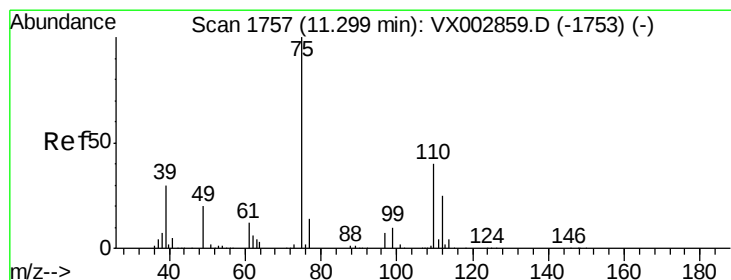
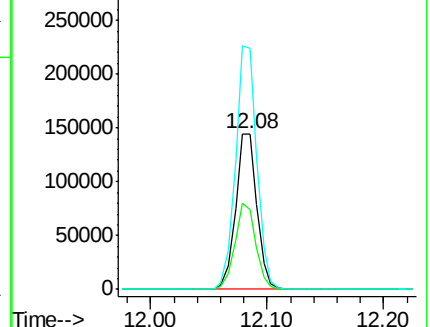
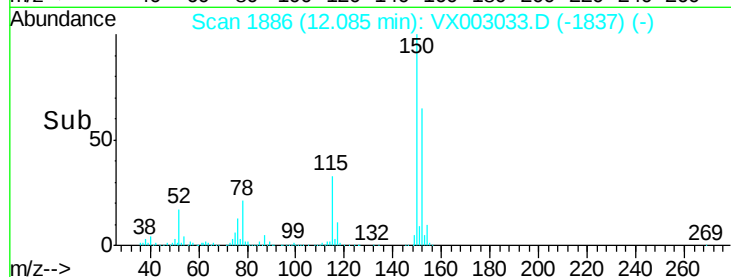
150 156.6 0.0 347.2



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: 26.80 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003033.D

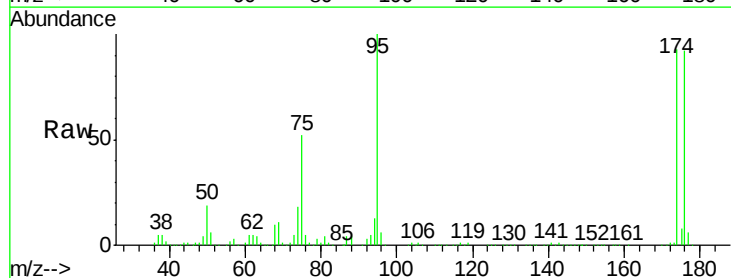
Acq: 29 Jun 2018 17:11

Tgt Ion: 75 Resp: 89236

Ion Ratio Lower Upper

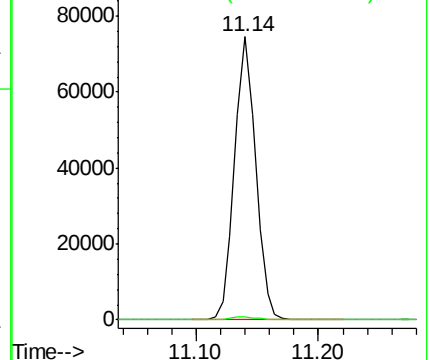
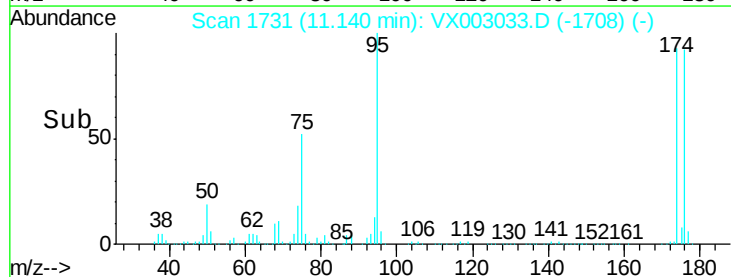
75 100

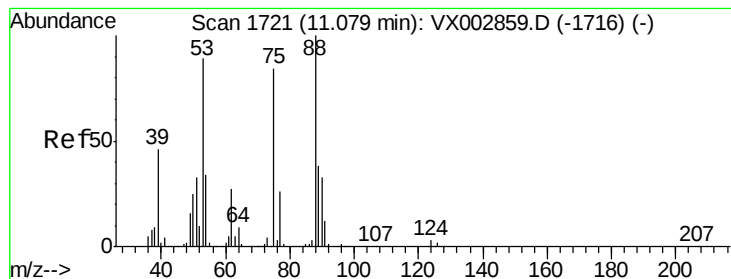
77 1.5 22.8 68.3#



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: 75.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

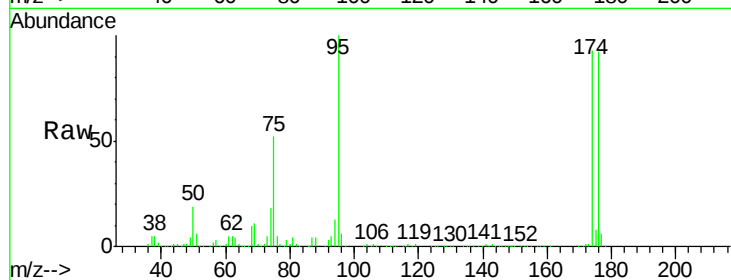
Lab File: VX003033.D

Acq: 29 Jun 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :



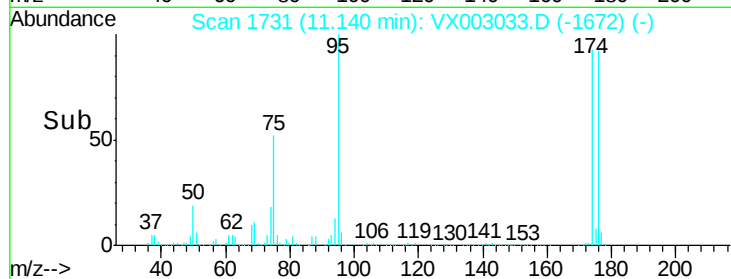
Tot Ion: 75 Resp: 89236

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

89 0.0 38.2 57.2#



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

