

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070218\
 Data File : VX003131.D
 Acq On : 02 Jul 2018 17:04
 Operator : JC/MD
 Sample : J3772-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP18-MMW-3414

Quant Time: Jul 03 06:58:00 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	260999	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	363203	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	336980	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196675	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	168336	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
35) Dibromofluoromethane	5.51	113	140329	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
50) Toluene-d8	8.72	98	502262	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	11.14	95	178947	44.18	ug/l	0.00
Spiked Amount			Recovery	=	88.36%	

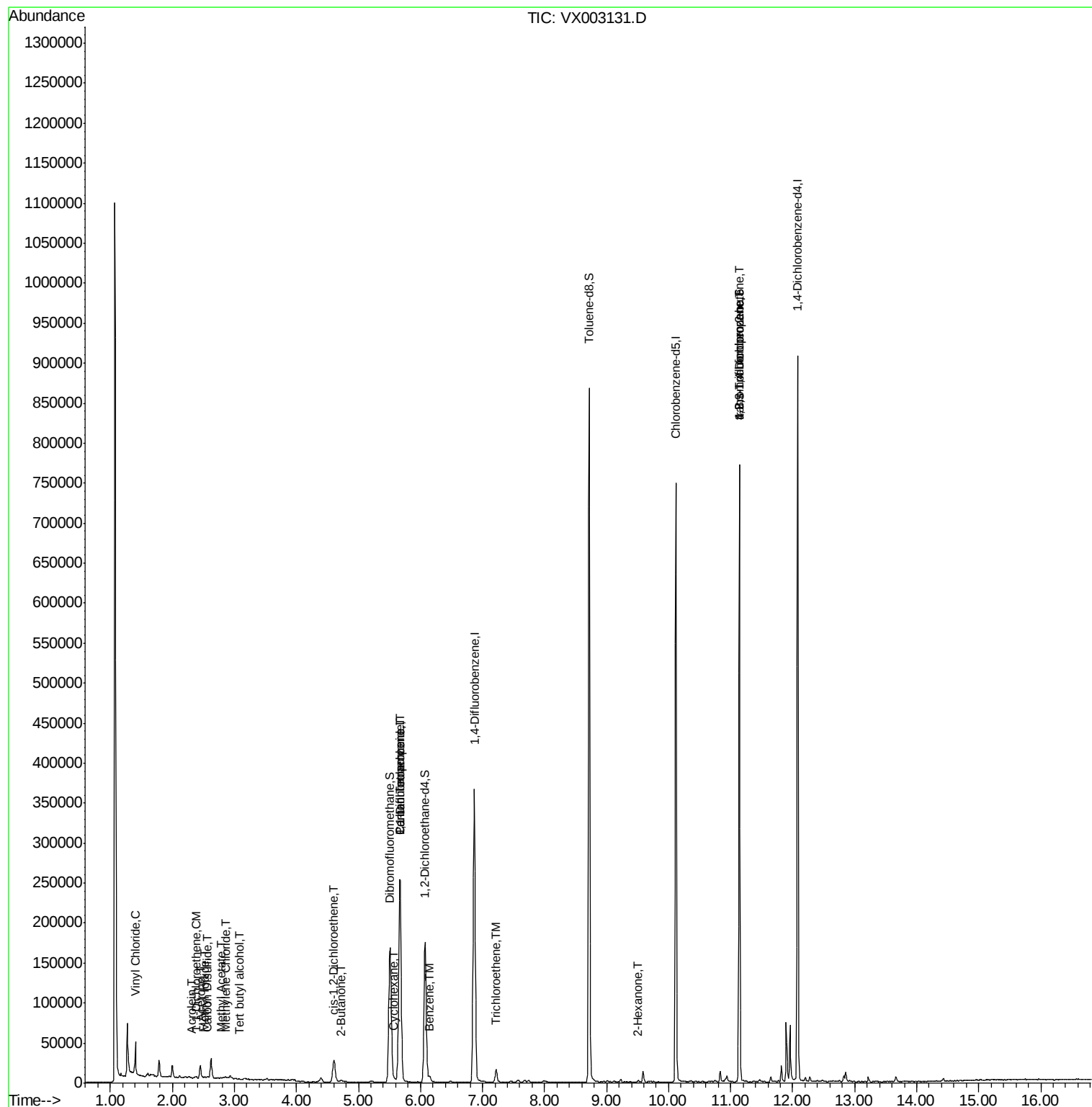
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	54	Below Cal	#	43
3) Chloromethane	1.32	50	921	Below Cal	#	86
4) Vinyl Chloride	1.40	62	5571	1.89	ug/l	9
5) Bromomethane	1.65	94	1975	Below Cal		98
6) Chloroethane	1.72	64	517	Below Cal	#	58
10) Methyl Iodide	2.53	142	1937	6.81	ug/l	94
11) Tert butyl alcohol	3.08	59	176	0.24	ug/l	36
12) 1,1-Dichloroethene	2.38	96	633	0.25	ug/l	95
13) Acrolein	2.31	56	360	5.12	ug/l	14
16) Acetone	2.45	43	16916	11.32	ug/l	96
17) Carbon Disulfide	2.57	76	2689	0.39	ug/l	97
18) Methyl Acetate	2.79	43	1712	0.41	ug/l	100
20) Methylene Chloride	2.85	84	882	0.30	ug/l	69
25) 2-Butanone	4.71	43	3747	1.69	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	16943	5.39	ug/l	93
31) Cyclohexane	5.57	56	3052	0.67	ug/l	96
36) 1,1-Dichloropropene	5.67	75	16886	4.24	ug/l	50
38) Carbon Tetrachloride	5.67	117	23178	5.30	ug/l	16
40) Benzene	6.15	78	7642	0.66	ug/l	100
44) Trichloroethene	7.21	130	6557	1.90	ug/l	89
59) 2-Hexanone	9.51	43	1486	0.43	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	92694	26.02	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92694	73.78	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: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

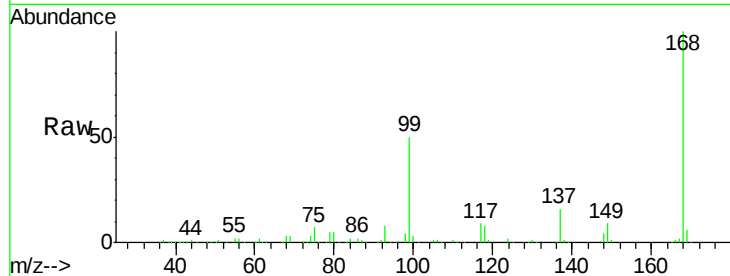
SP18-MMW-3414

Tot Ion:168 Resp: 260999

Ion Ratio Lower Upper

168 100

99 50.5 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

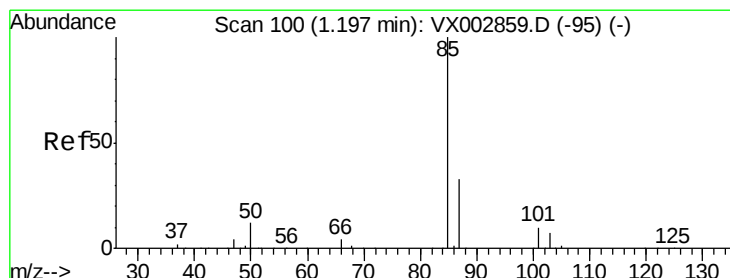
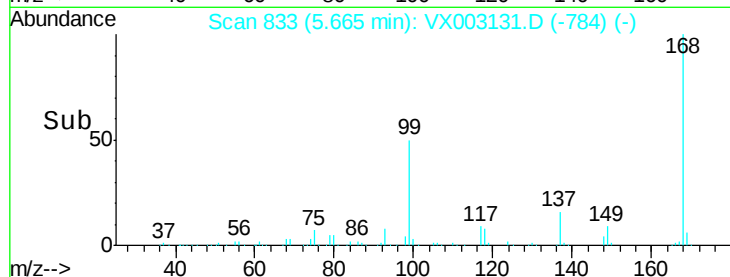
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003131.D

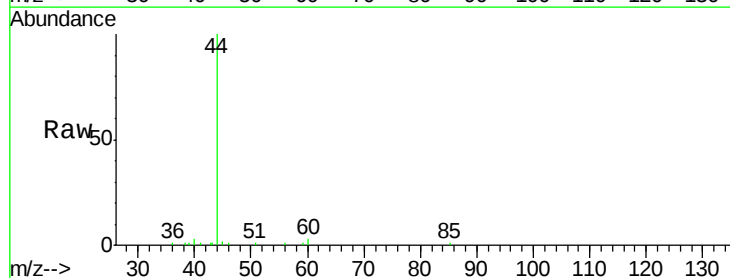
Acq: 02 Jul 2018 17:04

Tgt Ion: 85 Resp: 54

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

80

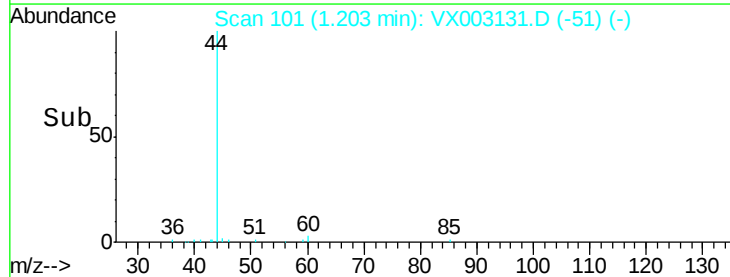
60

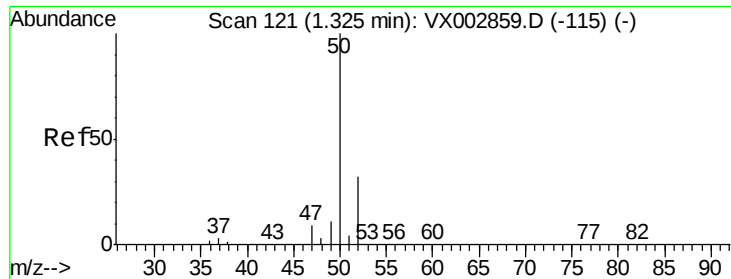
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

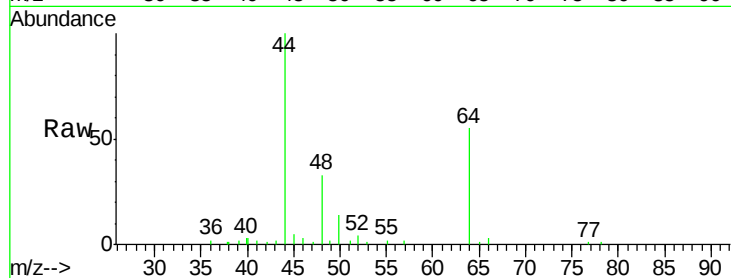
SP18-MMW-3414

Tot Ion: 50 Resp: 921

Ion Ratio Lower Upper

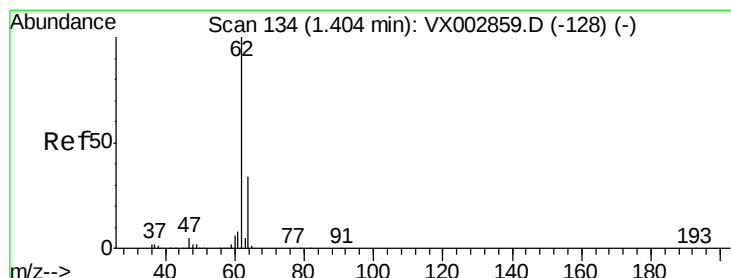
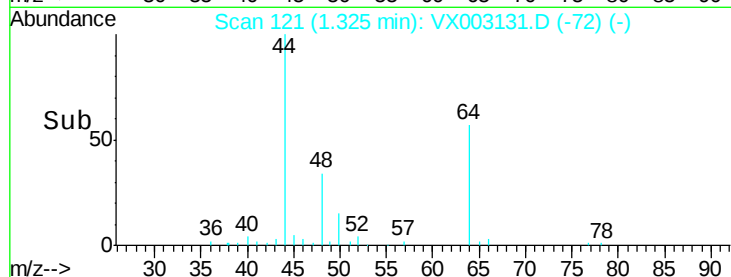
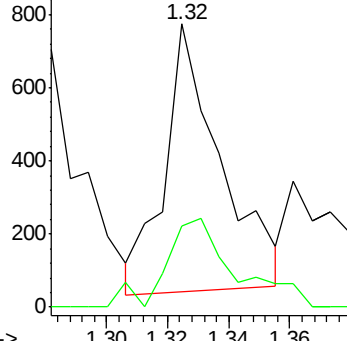
50 100

52 24.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 1.89 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003131.D

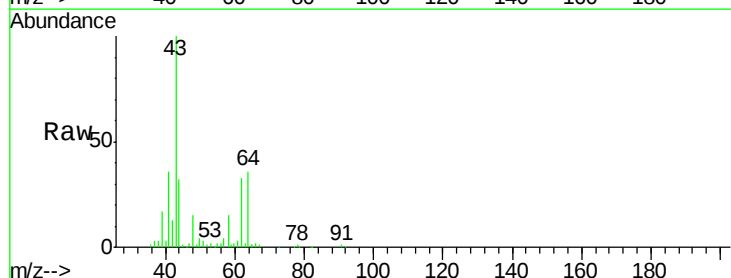
Acq: 02 Jul 2018 17:04

Tgt Ion: 62 Resp: 5571

Ion Ratio Lower Upper

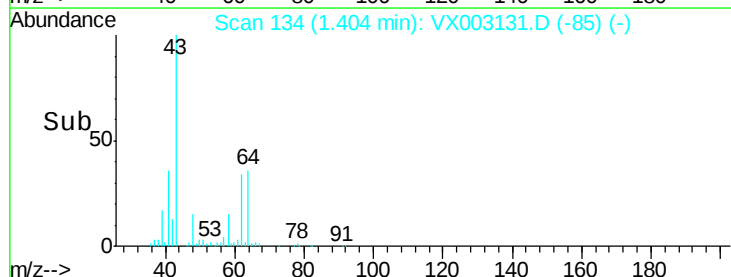
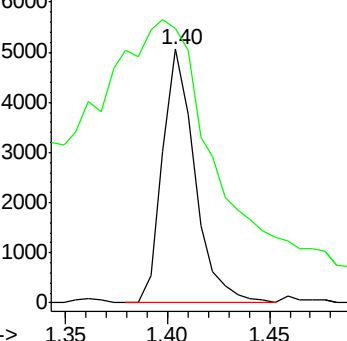
62 100

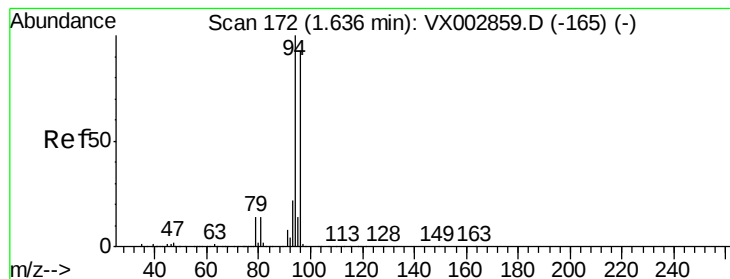
64 82.4 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

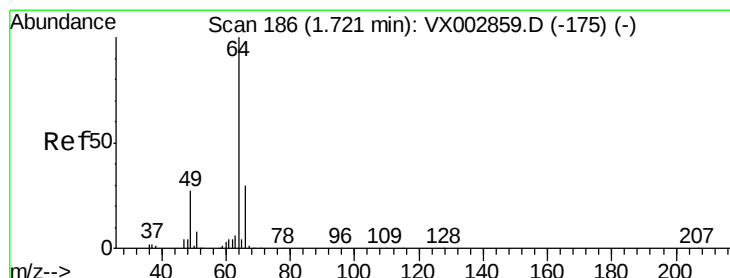
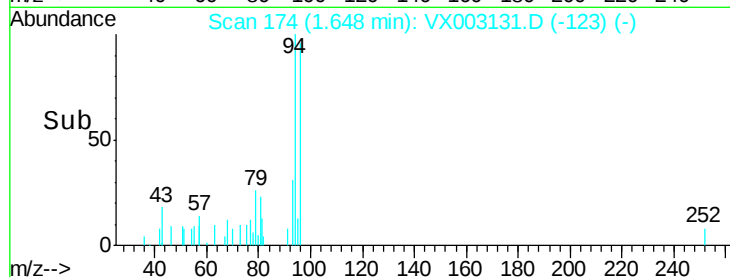
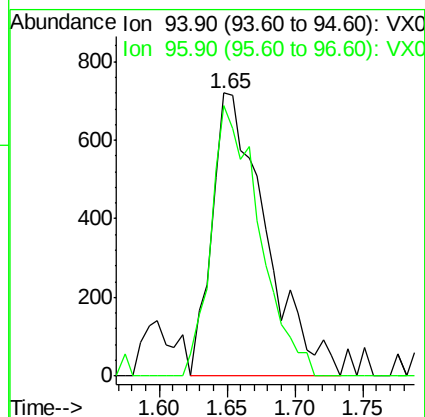
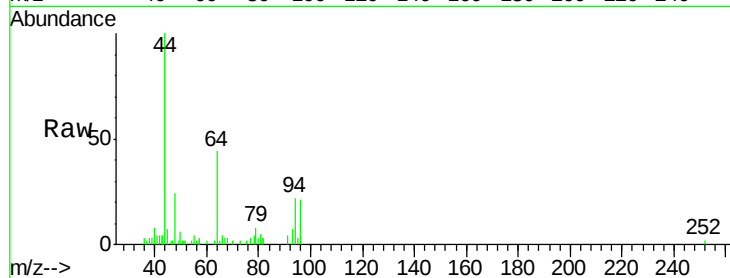
SP18-MMW-3414

Tot Ion: 94 Resp: 1975

Ion Ratio Lower Upper

94 100

96 95.6 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX003131.D

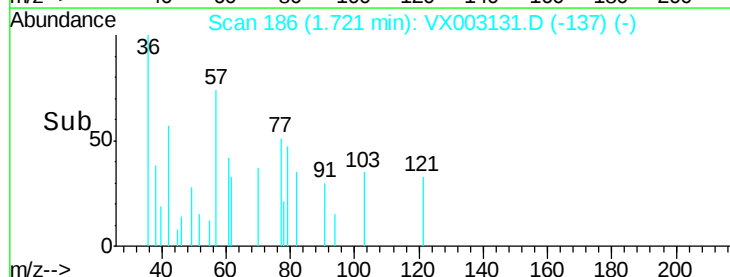
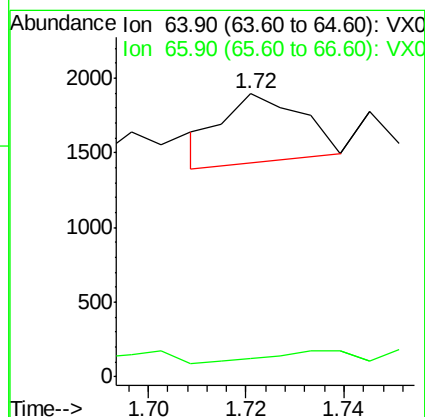
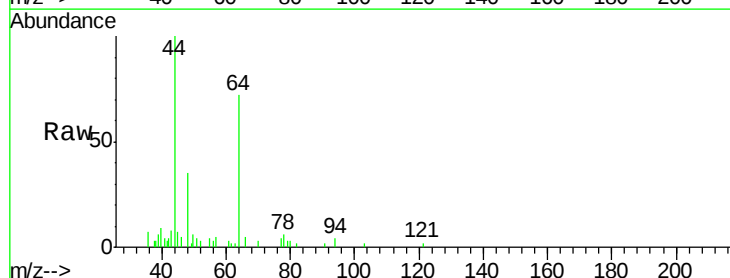
Acq: 02 Jul 2018 17:04

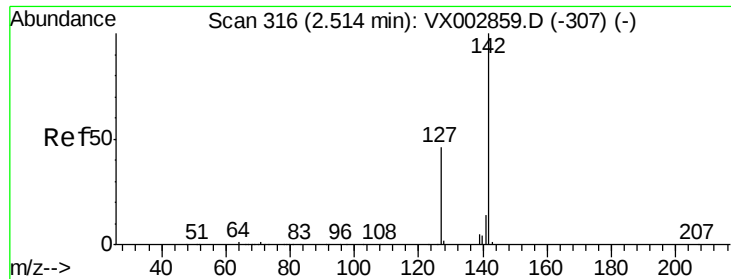
Tgt Ion: 64 Resp: 517

Ion Ratio Lower Upper

64 100

66 8.4 25.5 38.3#

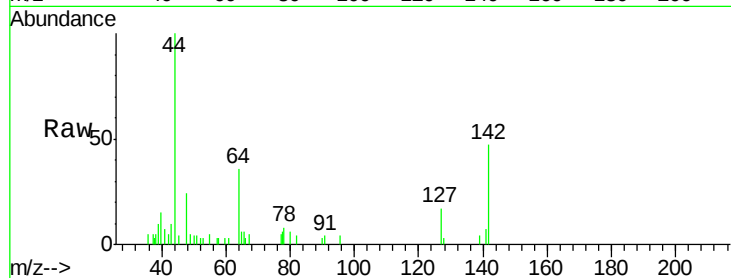




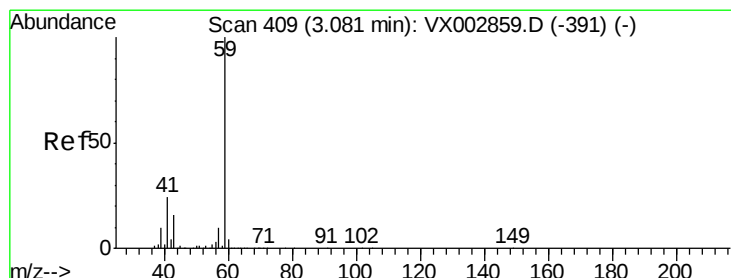
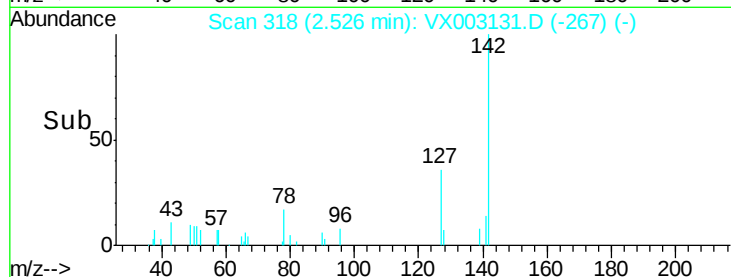
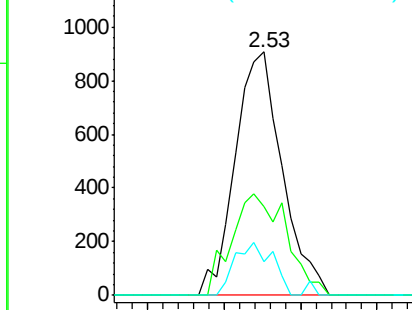
#10
Methyl Iodide
Concen: 6.81 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX003131.D
Acq: 02 Jul 2018 17:04

Instrument :
MSVOA_X
ClientSampleId :
SP18-MMW-3414

Tot Ion:142 Resp: 1937
Ion Ratio Lower Upper
142 100
127 49.0 36.6 55.0
141 17.4 11.3 16.9#

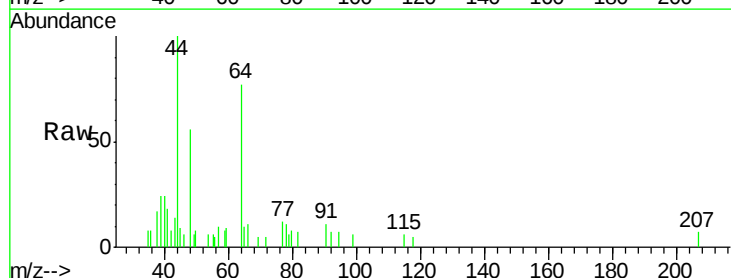


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

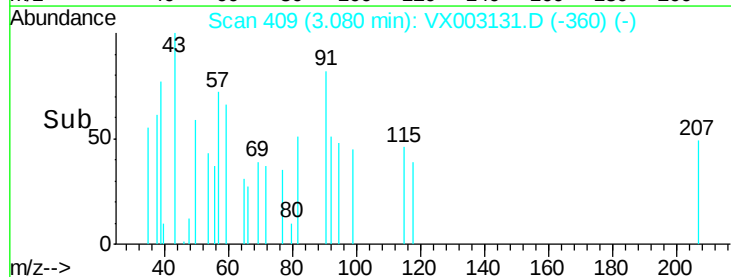
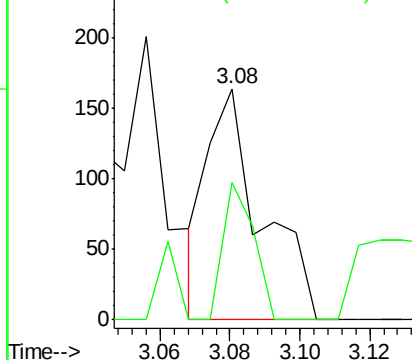


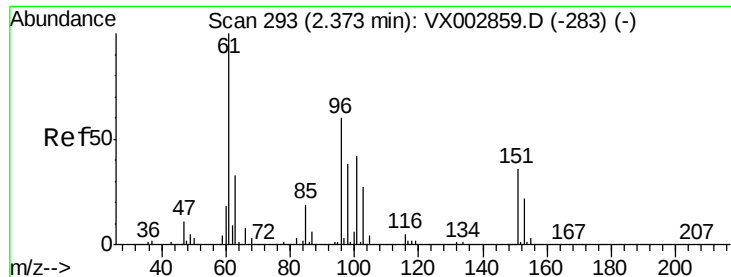
#11
Tert butyl alcohol
Concen: 0.24 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX003131.D
Acq: 02 Jul 2018 17:04

Tgt Ion: 59 Resp: 176
Ion Ratio Lower Upper
59 100
57 34.1 8.2 12.2#



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

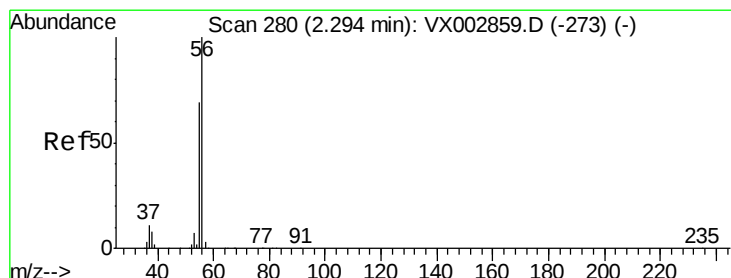
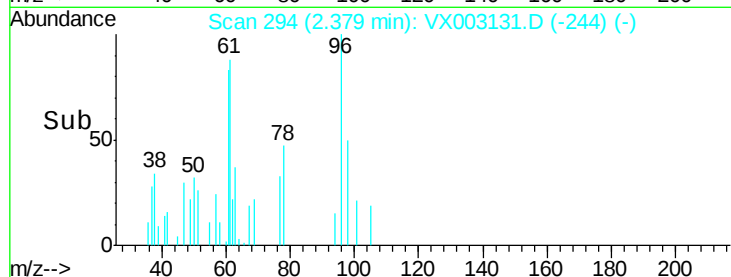
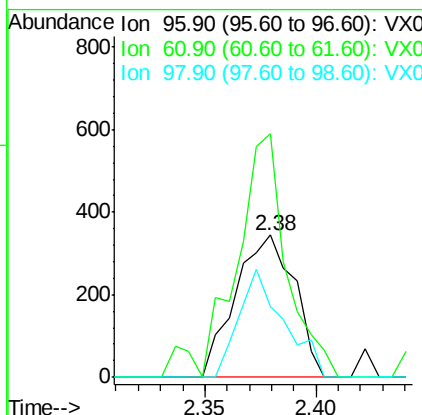
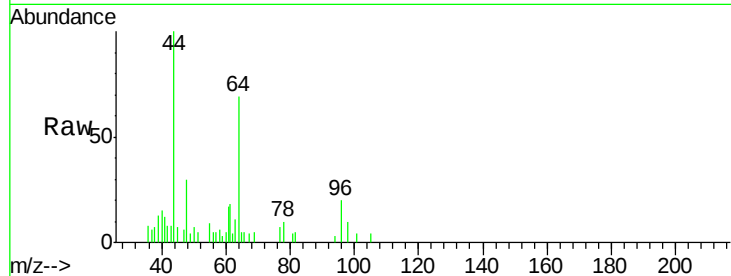




#12
 1,1-Dichloroethene
 Concen: 0.25 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.01 min
 Lab File: VX003131.D
 Acq: 02 Jul 2018 17:04

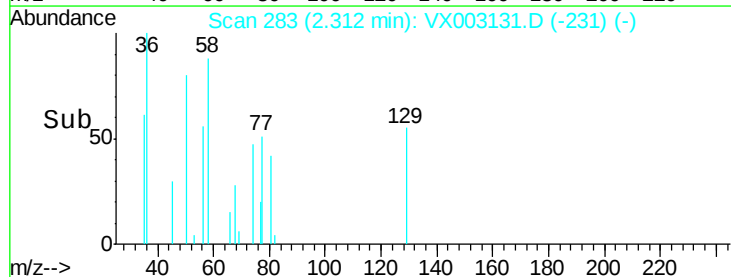
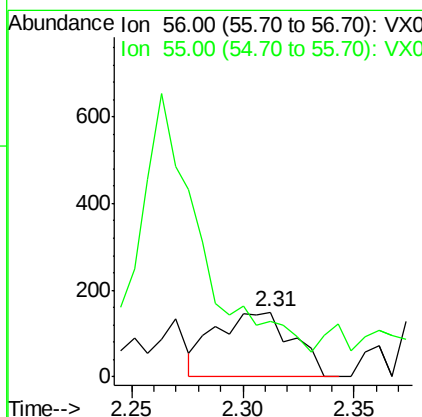
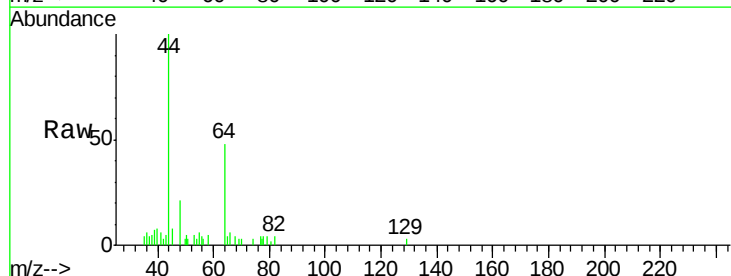
Instrument :
 MSVOA_X
 ClientSampleId :
 SP18-MMW-3414

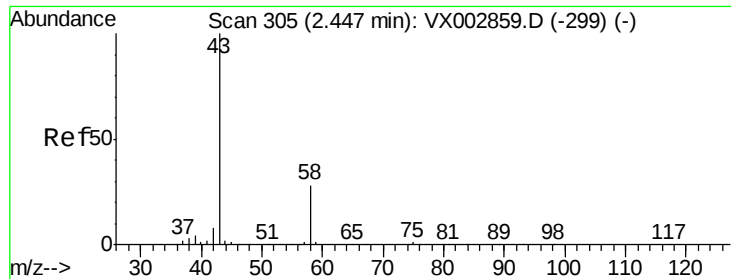
Tot Ion: 96 Resp: 633
 Ion Ratio Lower Upper
 96 100
 61 171.5 137.9 206.9
 98 50.0 51.6 77.4#



#13
 Acrolein
 Concen: 5.12 ug/l
 RT: 2.31 min Scan# 283
 Delta R.T. 0.02 min
 Lab File: VX003131.D
 Acq: 02 Jul 2018 17:04

Tgt Ion: 56 Resp: 360
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 11.32 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

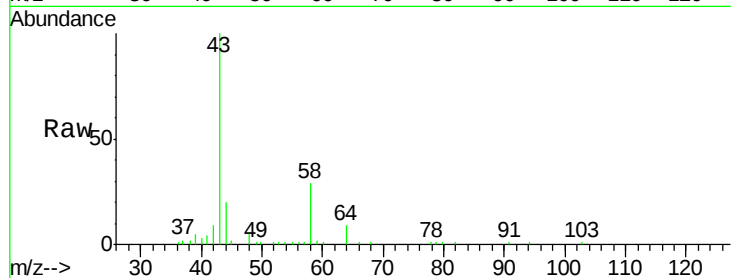
SP18-MMW-3414

Tot Ion: 43 Resp: 16916

Ion Ratio Lower Upper

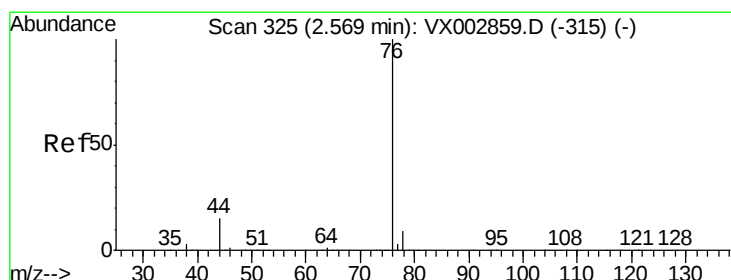
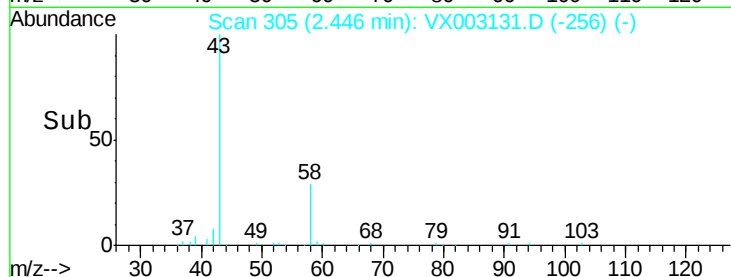
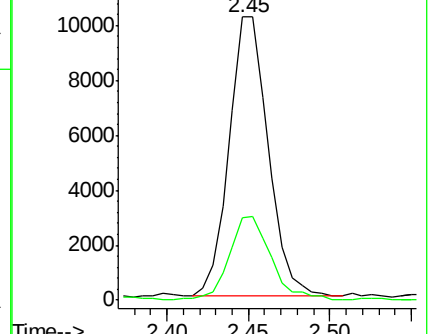
43 100

58 29.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.39 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX003131.D

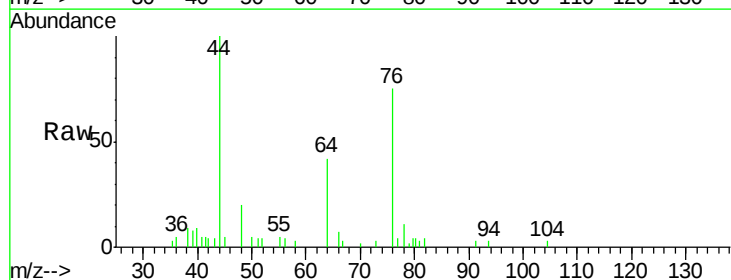
Acq: 02 Jul 2018 17:04

Tgt Ion: 76 Resp: 2689

Ion Ratio Lower Upper

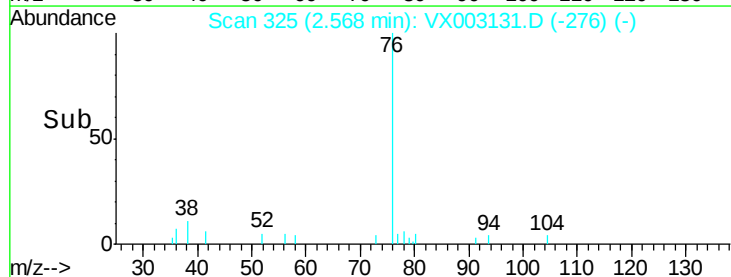
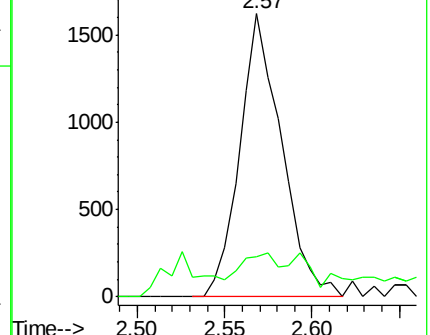
76 100

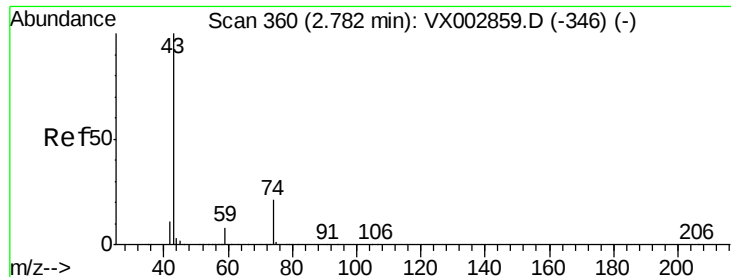
78 7.6 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

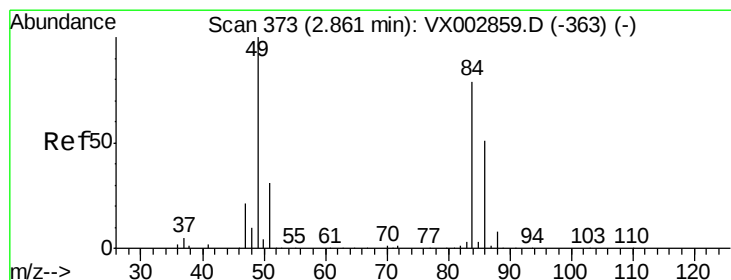
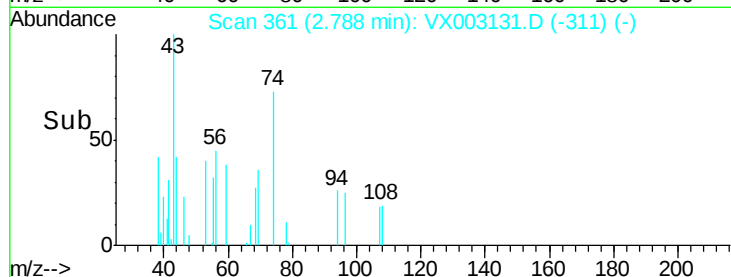
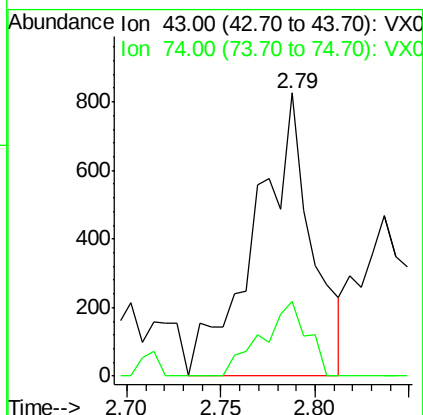
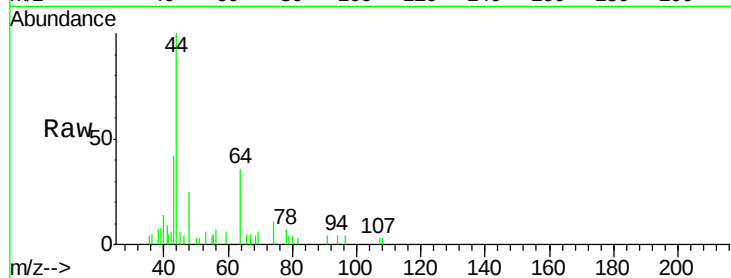




#18
Methyl Acetate
Concen: 0.41 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX003131.D
Acq: 02 Jul 2018 17:04

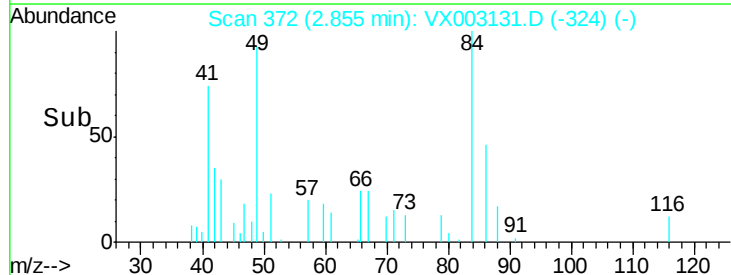
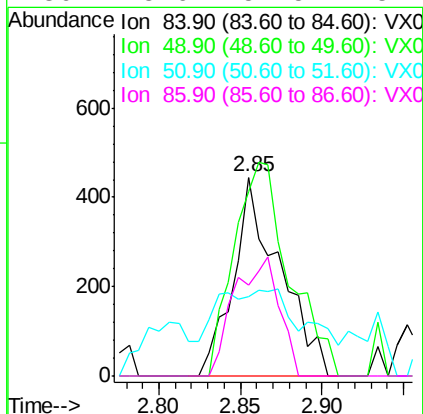
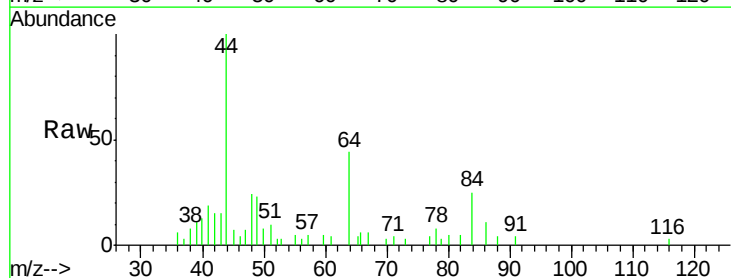
Instrument :
MSVOA_X
ClientSampleId :
SP18-MMW-3414

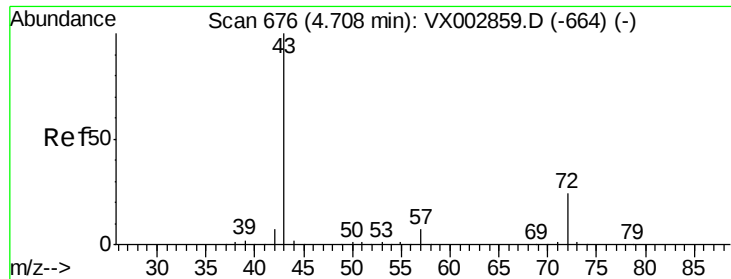
Tot Ion: 43 Resp: 1712
Ion Ratio Lower Upper
43 100
74 21.1 16.7 25.1



#20
Methylene Chloride
Concen: 0.30 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX003131.D
Acq: 02 Jul 2018 17:04

Tgt Ion: 84 Resp: 882
Ion Ratio Lower Upper
84 100
49 93.0 107.8 161.6#
51 24.3 32.8 49.2#
86 45.6 52.5 78.7#





#25

2-Butanone

Concen: 1.69 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

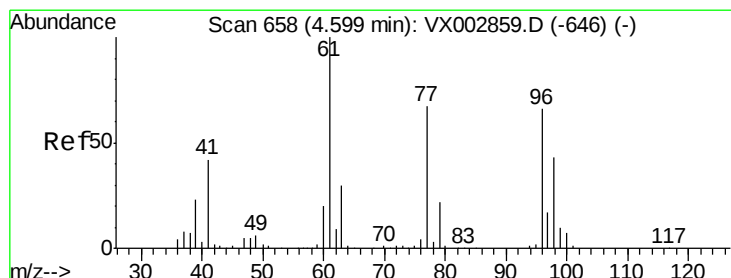
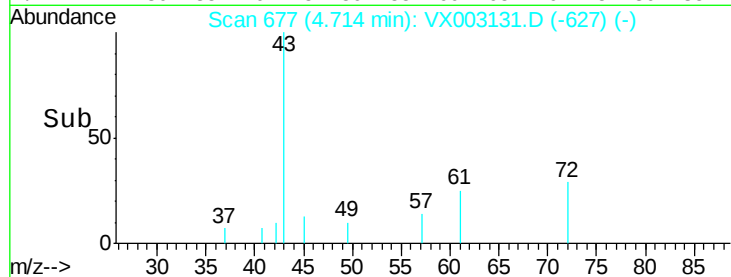
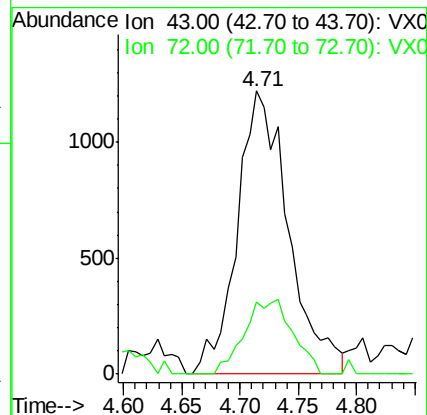
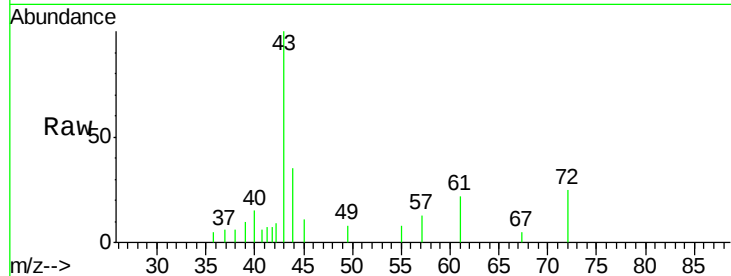
SP18-MMW-3414

Tot Ion: 43 Resp: 3747

Ion Ratio Lower Upper

43 100

72 25.3 18.5 27.7



#27

cis-1,2-Dichloroethene

Concen: 5.39 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

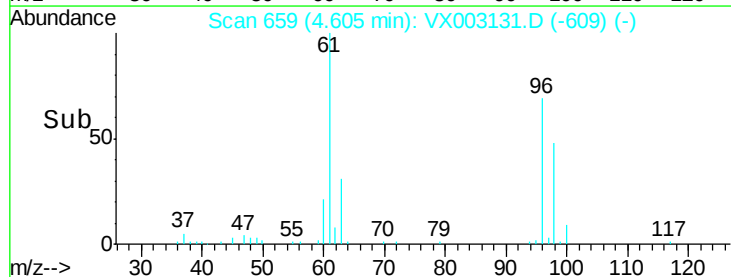
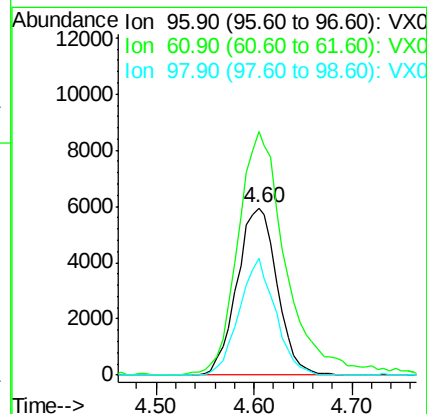
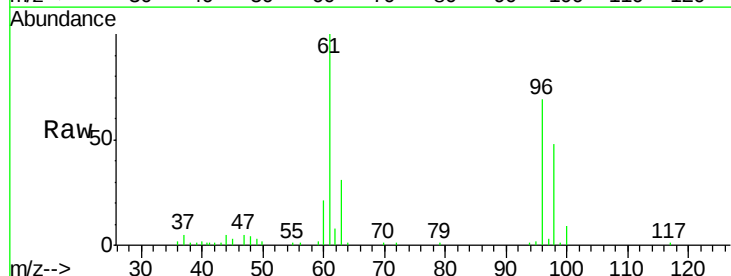
Tgt Ion: 96 Resp: 16943

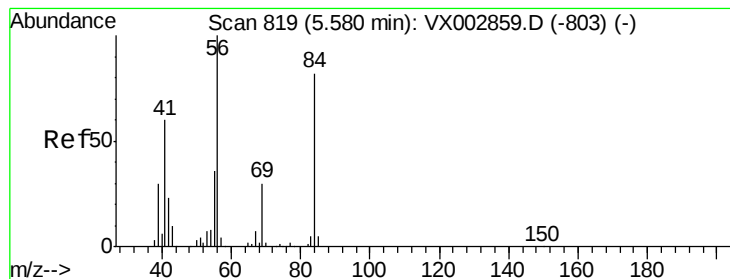
Ion Ratio Lower Upper

96 100

61 176.3 0.0 330.2

98 62.9 0.0 130.2





#31

Cyclohexane

Concen: 0.67 ug/l

RT: 5.57 min Scan# 817

Delta R.T. -0.01 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

SP18-MMW-3414

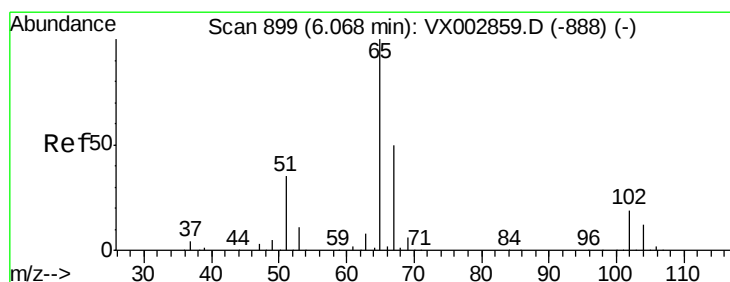
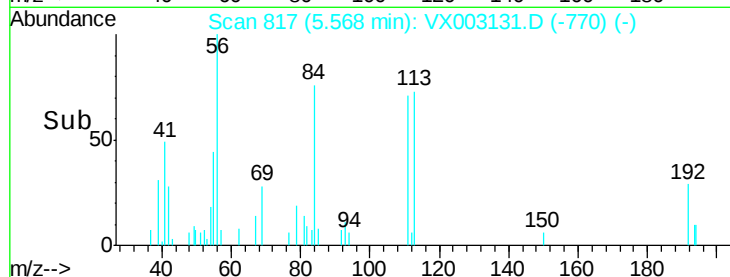
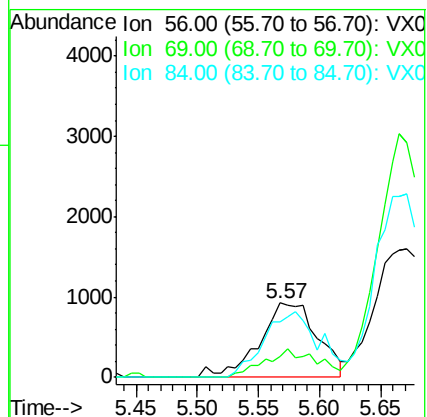
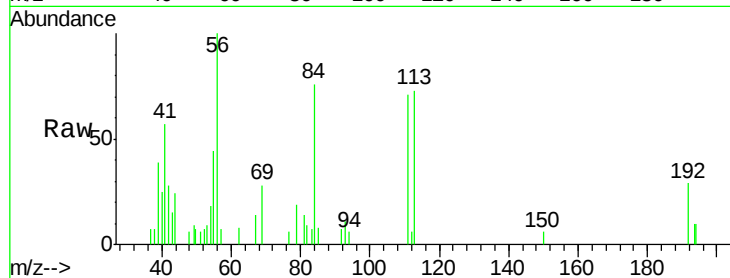
Tot Ion: 56 Resp: 3052

Ion Ratio Lower Upper

56 100

69 28.3 23.7 35.5

84 75.7 64.1 96.1



#33

1,2-Dichloroethane-d4

Concen: 46.66 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003131.D

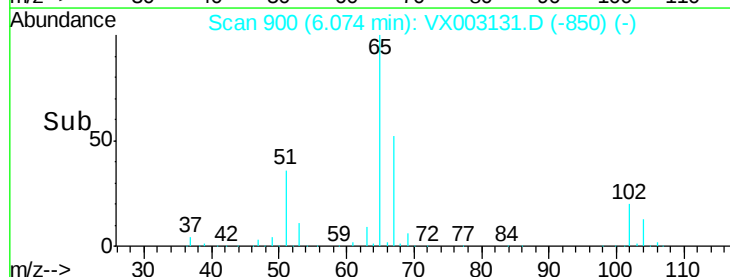
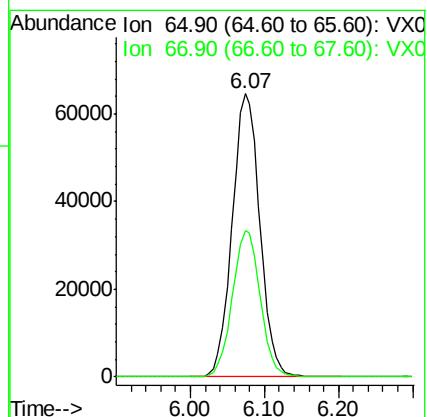
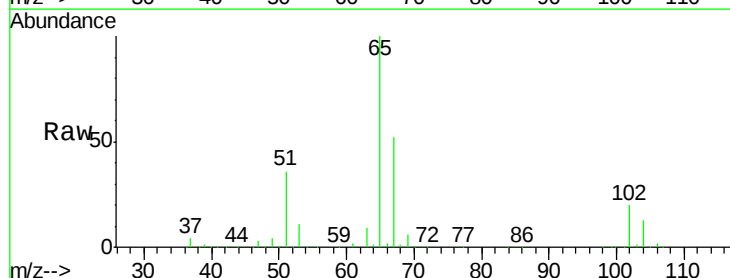
Acq: 02 Jul 2018 17:04

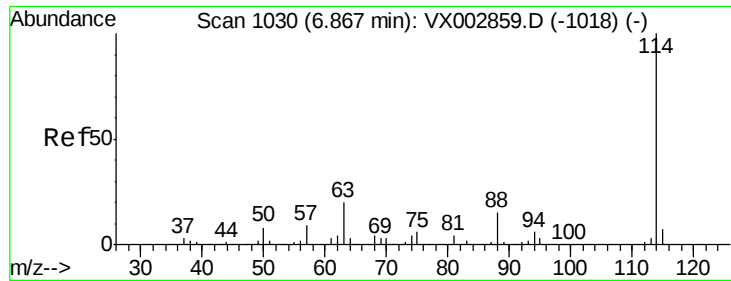
Tgt Ion: 65 Resp: 168336

Ion Ratio Lower Upper

65 100

67 51.7 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: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

SP18-MMW-3414

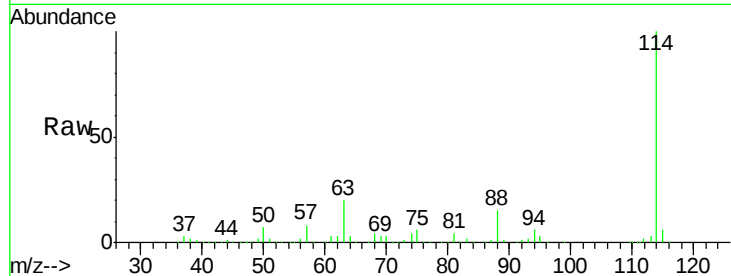
Tot Ion:114 Resp: 363203

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

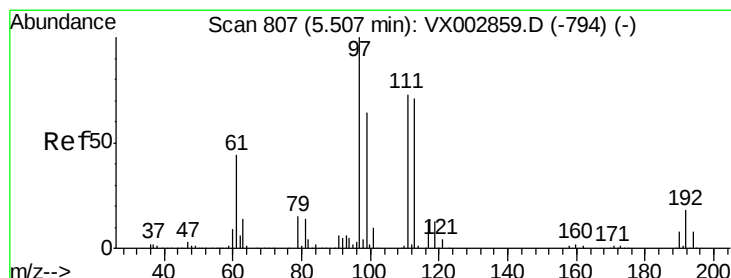
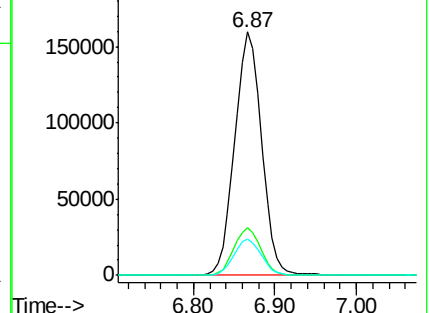
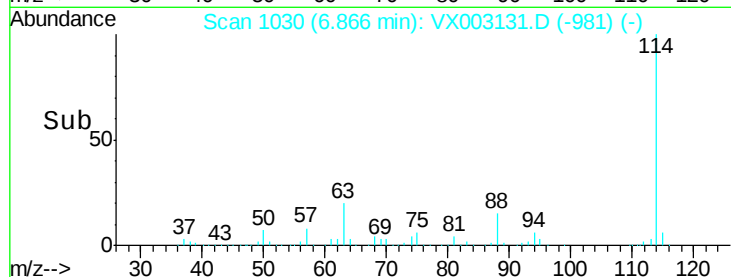
88 15.1 0.0 30.0



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: 48.79 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

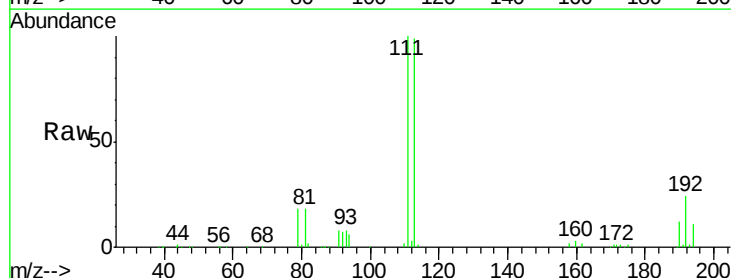
Tgt Ion:113 Resp: 140329

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

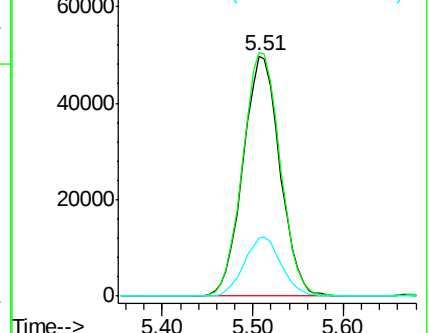
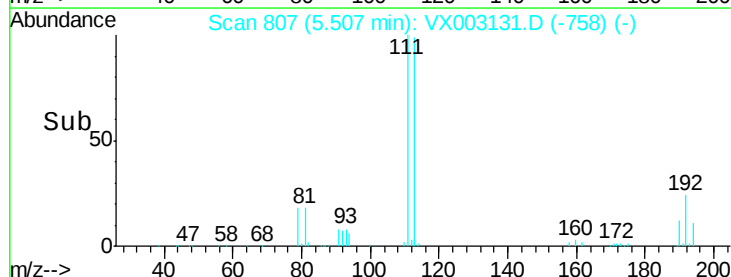
192 24.6 19.1 28.7

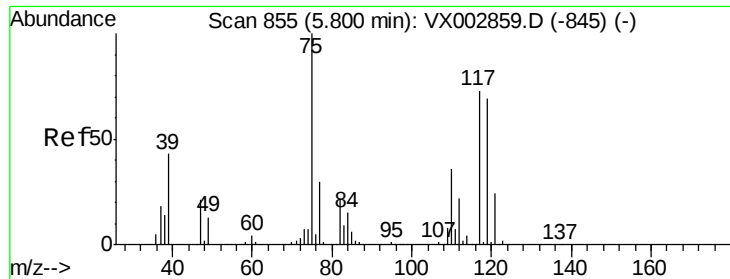


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

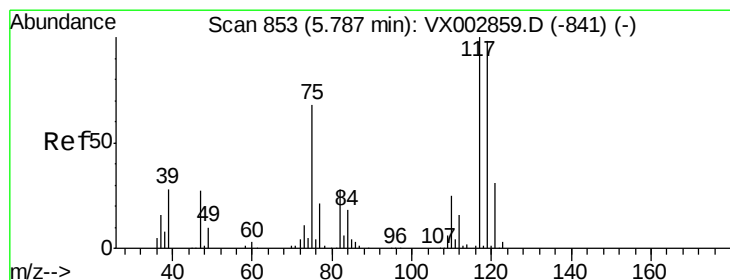
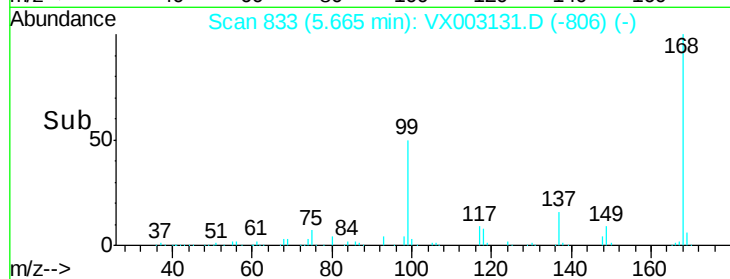
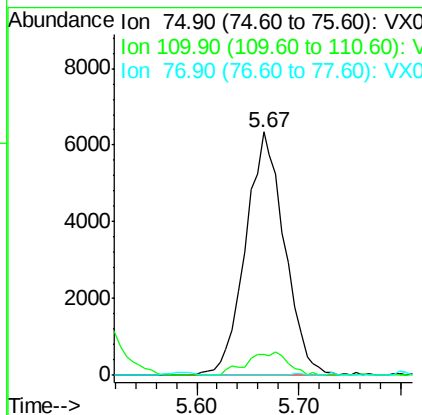
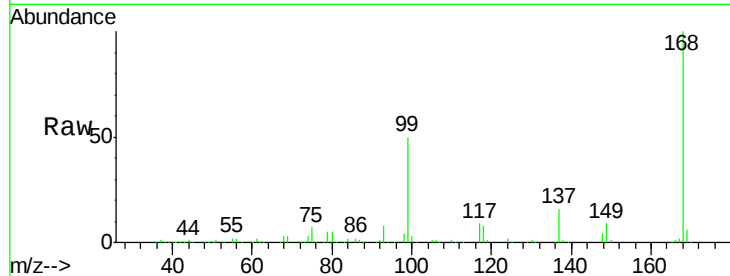




#36
 1,1-Dichloropropene
 Concen: 4.24 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003131.D
 Acq: 02 Jul 2018 17:04

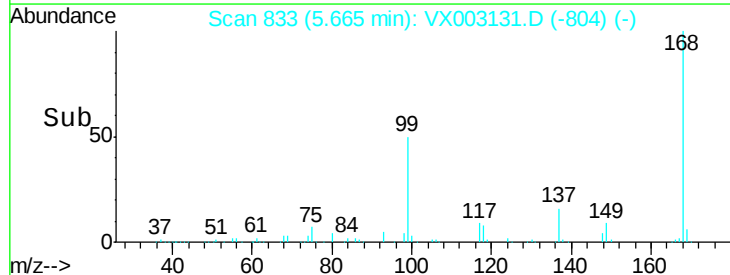
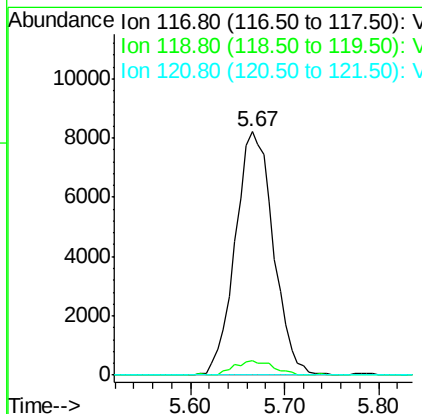
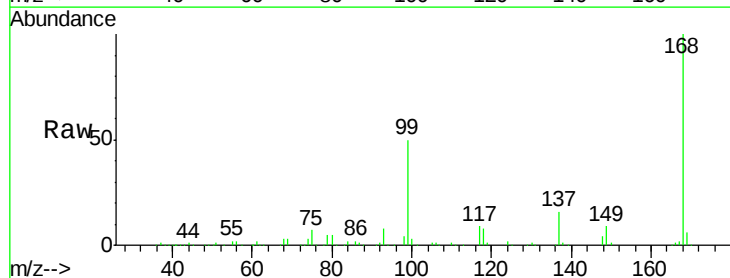
Instrument :
 MSVOA_X
 ClientSampleId :
 SP18-MMW-3414

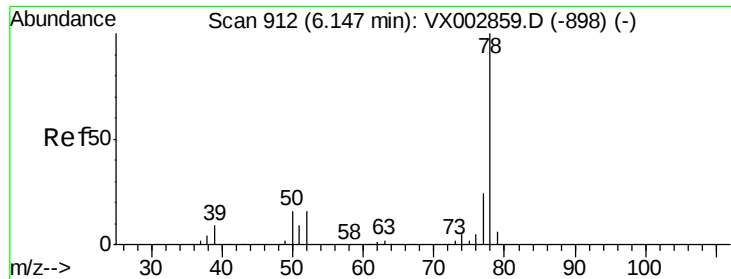
Tot Ion: 75 Resp: 16886
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.30 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003131.D
 Acq: 02 Jul 2018 17:04

Tgt Ion: 117 Resp: 23178
 Ion Ratio Lower Upper
 117 100
 119 5.9 77.4 116.0#
 121 0.0 24.4 36.6#





#40

Benzene

Concen: 0.66 ug/l

RT: 6.15 min Scan# 913

Delta R.T. 0.01 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

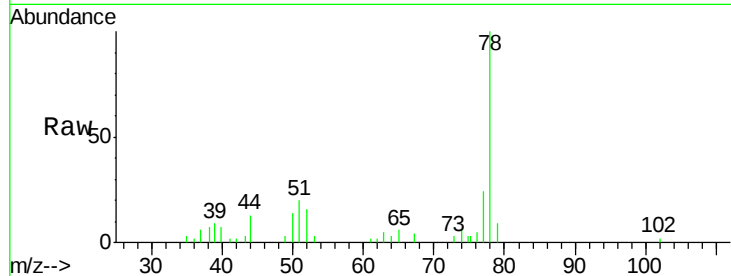
SP18-MMW-3414

Tot Ion: 78 Resp: 7642

Ion Ratio Lower Upper

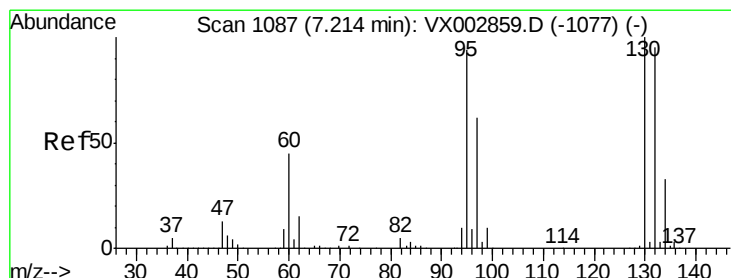
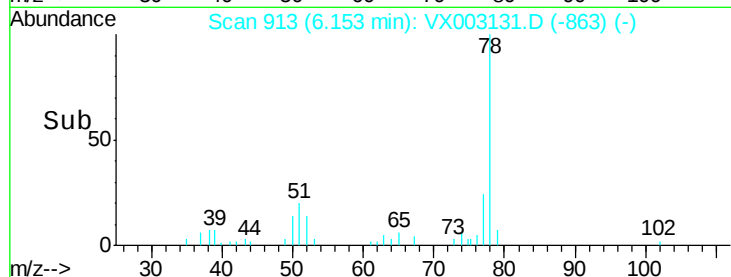
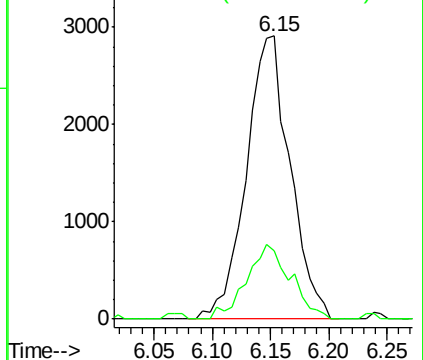
78 100

77 24.0 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: 1.90 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX003131.D

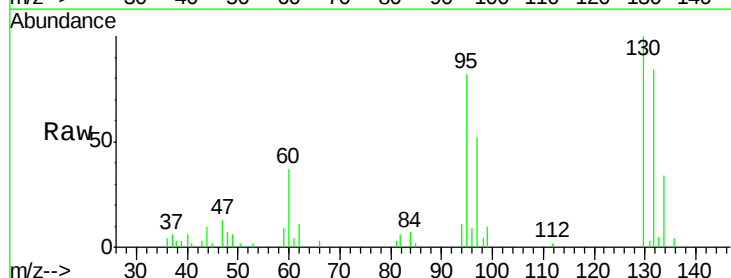
Acq: 02 Jul 2018 17:04

Tgt Ion:130 Resp: 6557

Ion Ratio Lower Upper

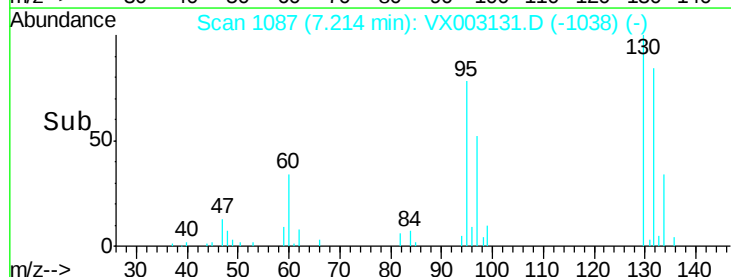
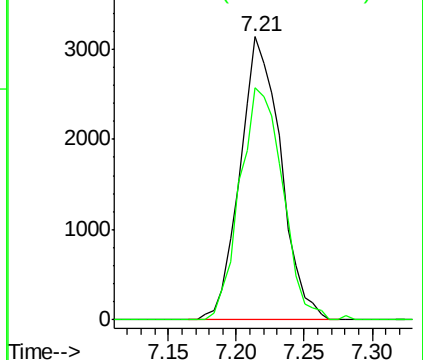
130 100

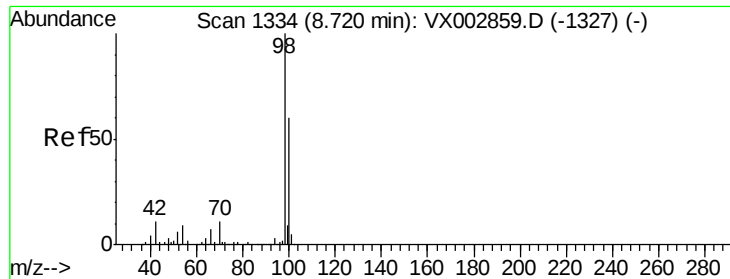
95 82.0 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

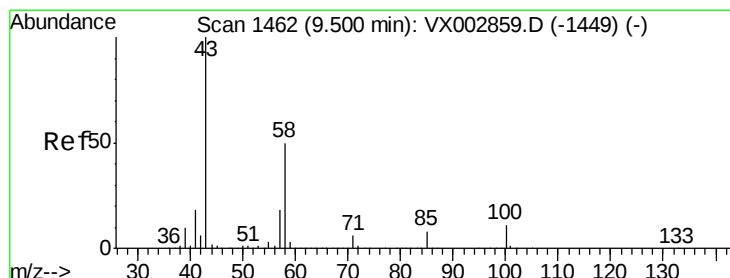
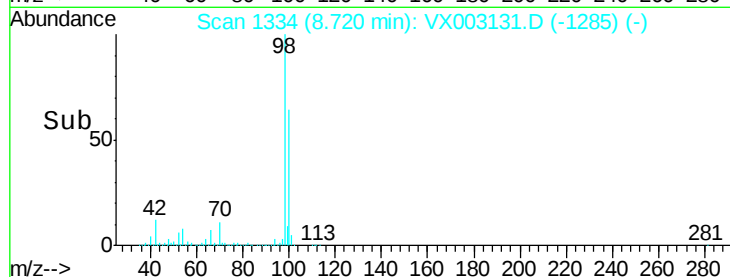
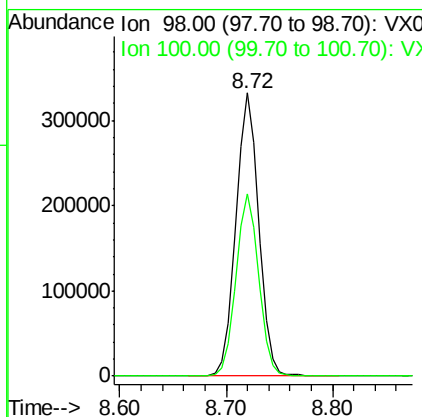
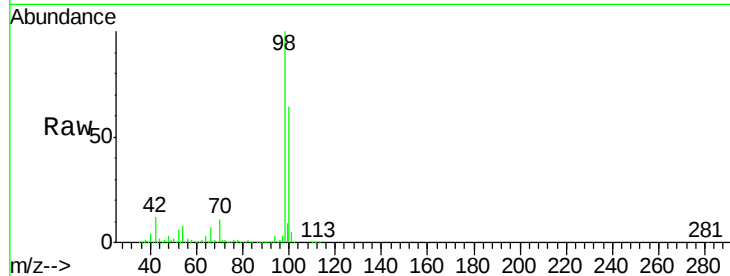




#50
Toluene-d8
Concen: 47.82 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003131.D
Acq: 02 Jul 2018 17:04

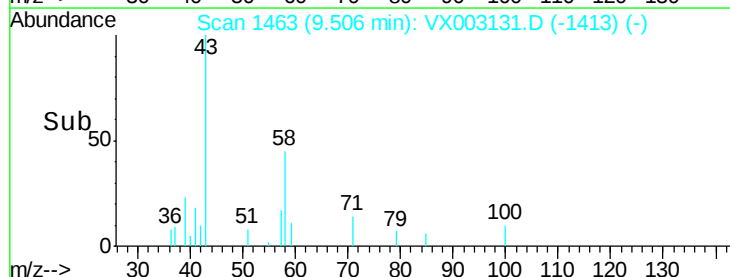
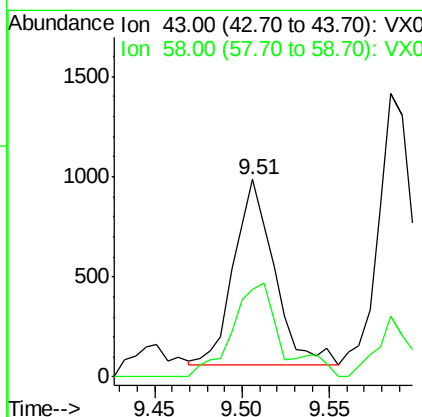
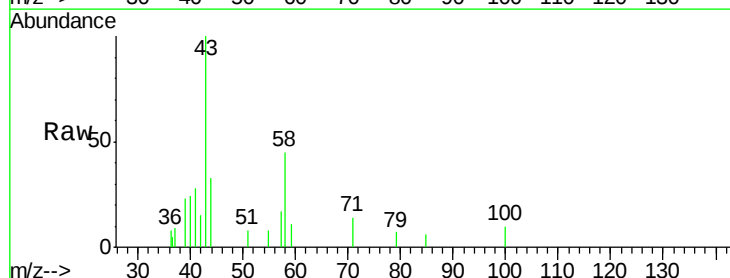
Instrument :
MSVOA_X
ClientSampleId :
SP18-MMW-3414

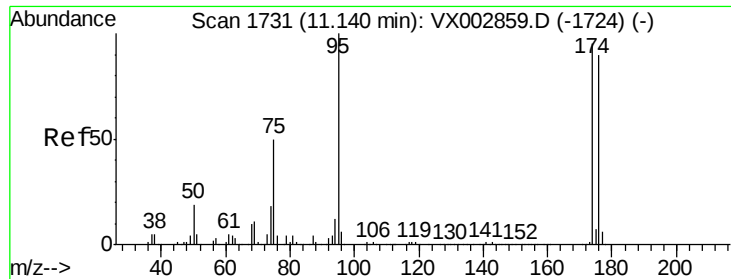
Tot Ion: 98 Resp: 502262
Ion Ratio Lower Upper
98 100
100 64.3 50.9 76.3



#59
2-Hexanone
Concen: 0.43 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VX003131.D
Acq: 02 Jul 2018 17:04

Tgt Ion: 43 Resp: 1486
Ion Ratio Lower Upper
43 100
58 54.6 24.6 73.6

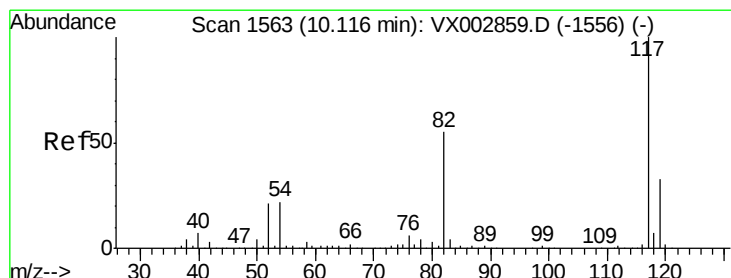
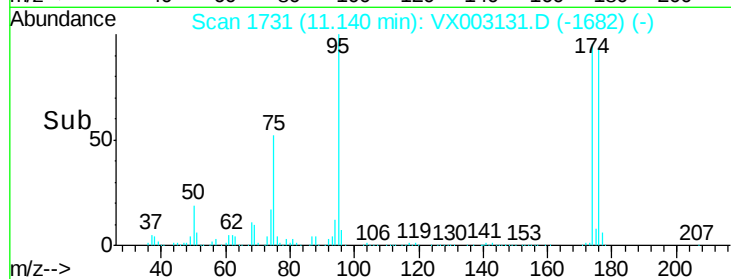
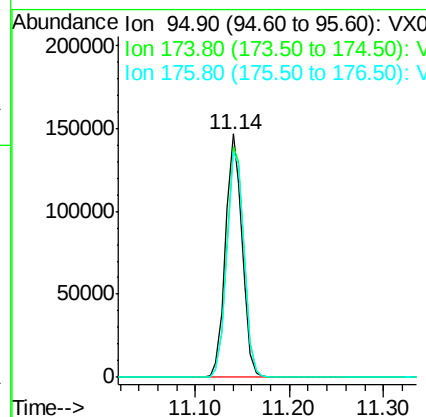
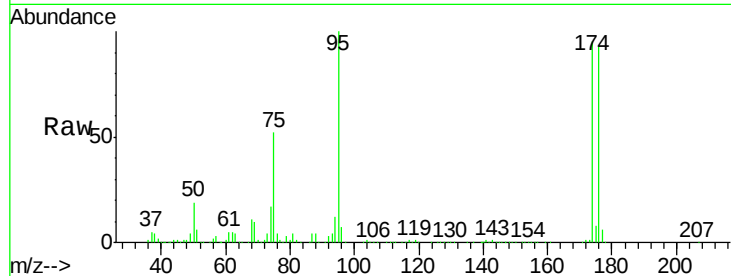




#62
4-Bromofluorobenzene
Concen: 44.18 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003131.D
Acq: 02 Jul 2018 17:04

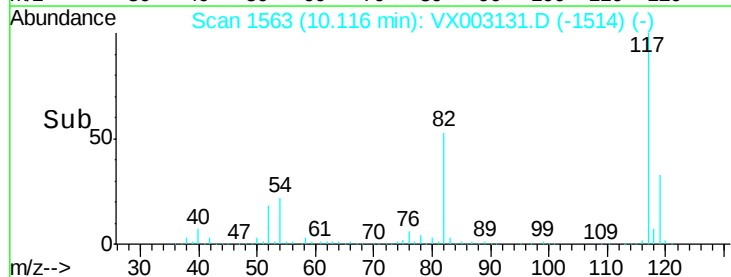
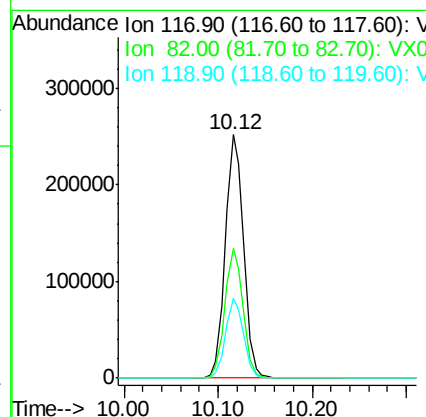
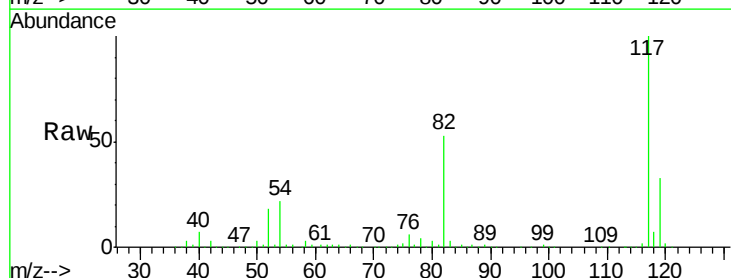
Instrument :
MSVOA_X
ClientSampleId :
SP18-MMW-3414

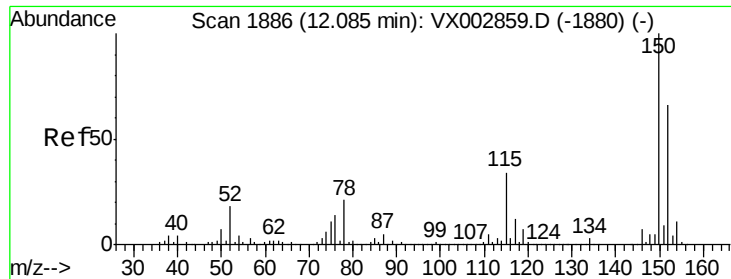
Tot Ion: 95 Resp: 178947
Ion Ratio Lower Upper
95 100
174 98.3 0.0 187.4
176 96.0 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003131.D
Acq: 02 Jul 2018 17:04

Tgt Ion: 117 Resp: 336980
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 32.6 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

SP18-MMW-3414

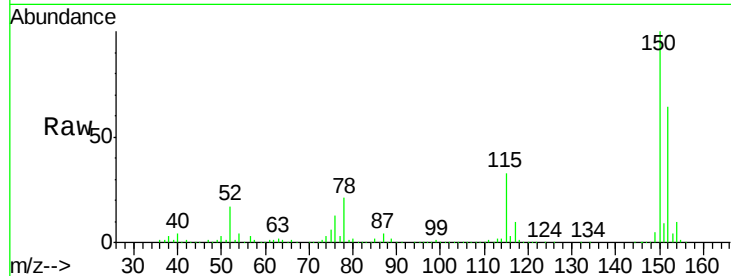
Tot Ion:152 Resp: 196675

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

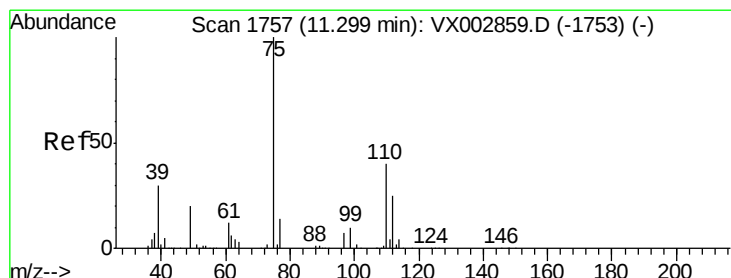
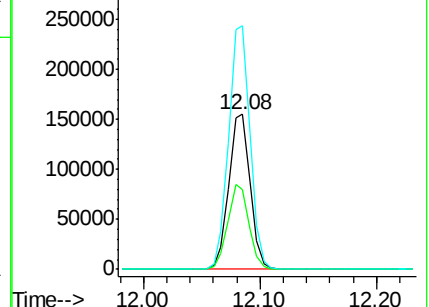
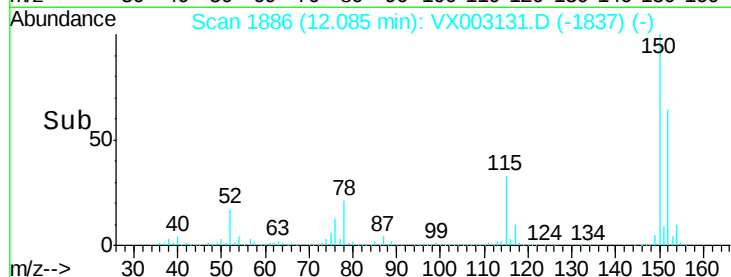
150 157.2 0.0 347.2



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: 26.02 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003131.D

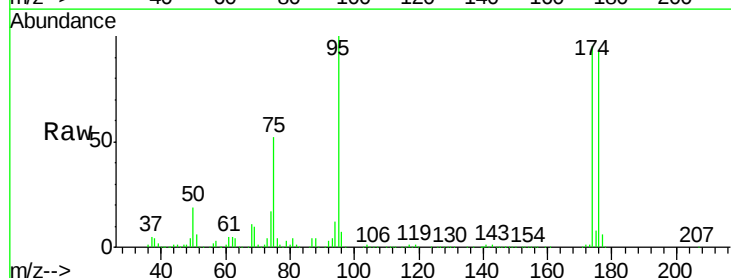
Acq: 02 Jul 2018 17:04

Tgt Ion: 75 Resp: 92694

Ion Ratio Lower Upper

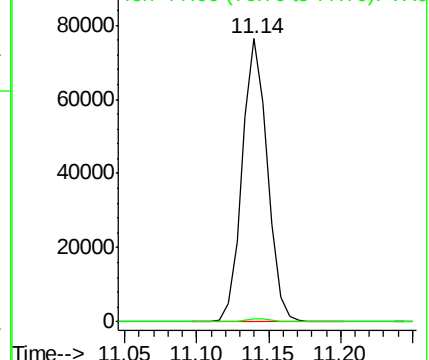
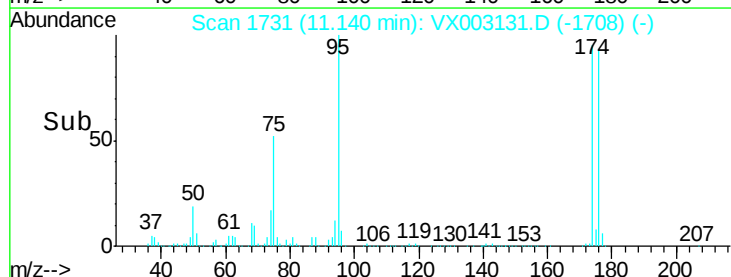
75 100

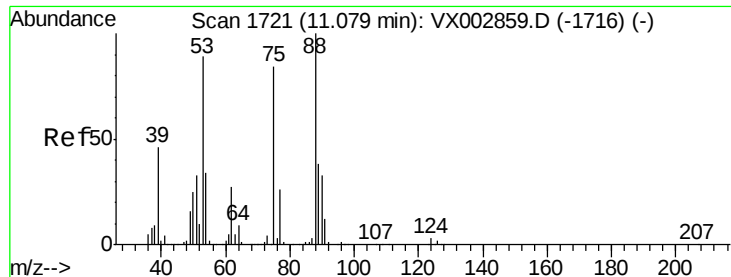
77 1.3 22.8 68.3#



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: 73.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003131.D

Acq: 02 Jul 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

SP18-MMW-3414

Tot Ion: 75 Resp: 92694

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.1 38.2 57.2#

