

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
 Data File : VX002139.D
 Acq On : 30 May 2018 14:23
 Operator : JC/MD
 Sample : J3070-04 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-4

Quant Time: May 31 02:09:19 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	53041	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	297640	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	259822	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	128924	30.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.97%
60) 4-Bromofluorobenzene	11.14	95	119376	26.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.47%
63) Toluene-d8	8.72	98	358286	30.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.13%

Target Compounds

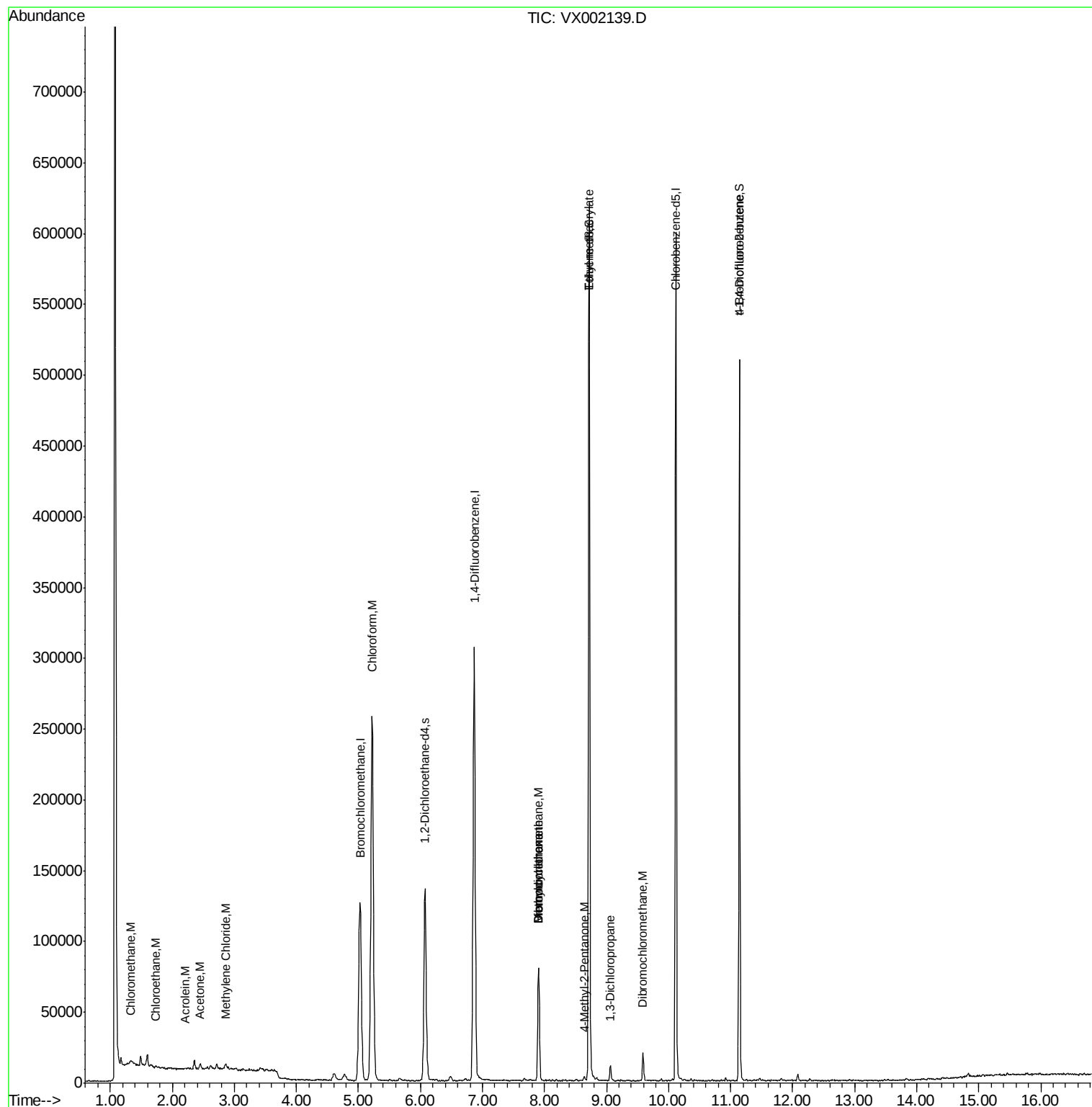
						Qvalue
3) Chloromethane	1.32	50	893	0.27	ug/l	98
6) Chloroethane	1.73	64	745	0.38	ug/l	95
13) Acrolein	2.20	56	92	0.25	ug/l	88
15) Acetone	2.45	58	1431	3.05	ug/l	86
18) Methylene Chloride	2.86	84	1622	0.55	ug/l #	90
25) Chloroform	5.22	83	291827	50.14	ug/l	99
38) Methylcyclohexane	7.90	83	47279	9.73	ug/l #	17
40) Dibromomethane	7.91	93	1592	0.70	ug/l #	1
41) Bromodichloromethane	7.90	83	47513	10.04	ug/l	99
51) Ethyl methacrylate	8.72	69	1308	0.23	ug/l	89
52) 1,3-Dichloropropane	9.07	76	1504	0.27	ug/l	48
53) Dibromochloromethane	9.59	129	3818	0.95	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	2777	0.49	ug/l #	50
77) t-1,4-Dichloro-2-butene	11.14	75	64671	39.84	ug/l #	11

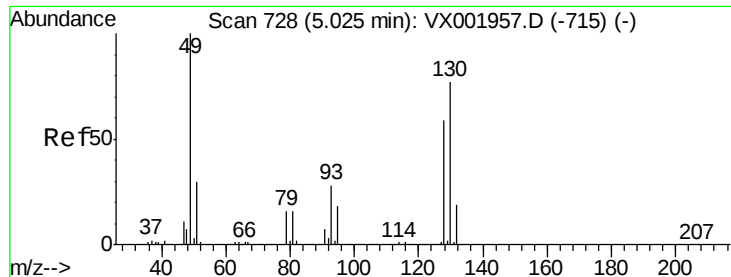
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampled :

14B-4

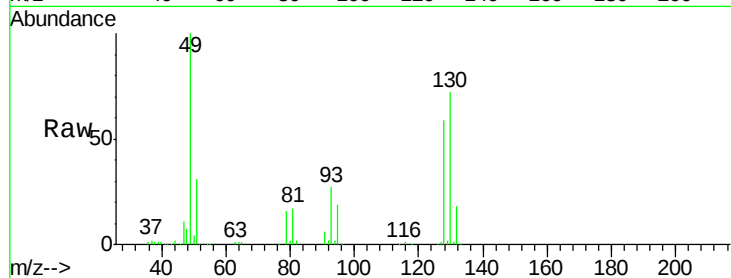
Tgt Ion:128 Resp: 53041

Ion Ratio Lower Upper

128 100

49 169.7 0.0 423.0

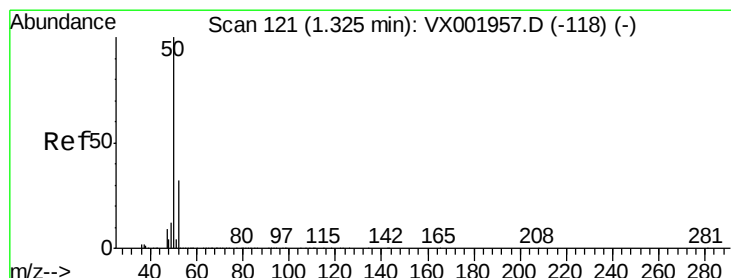
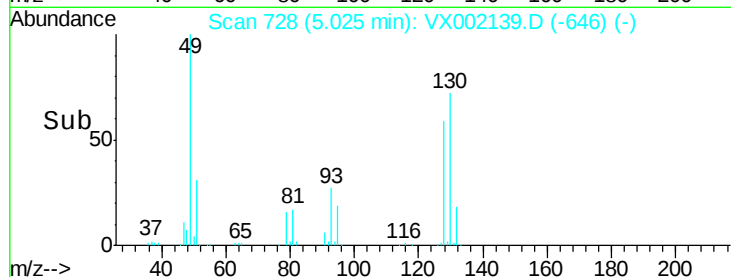
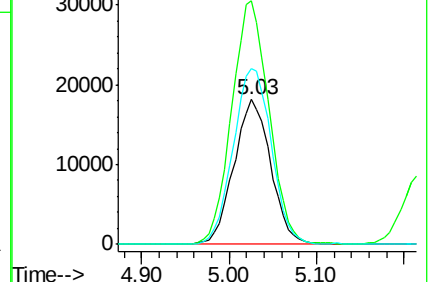
130 126.5 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.27 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002139.D

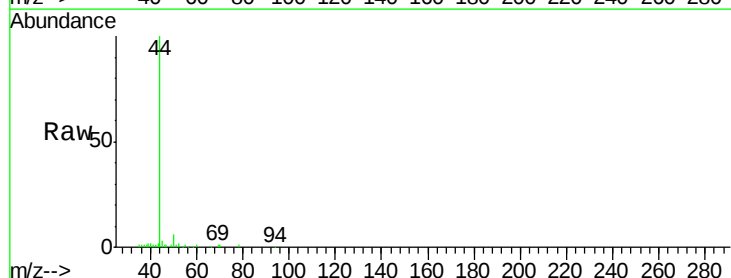
Acq: 30 May 2018 14:23

Tgt Ion: 50 Resp: 893

Ion Ratio Lower Upper

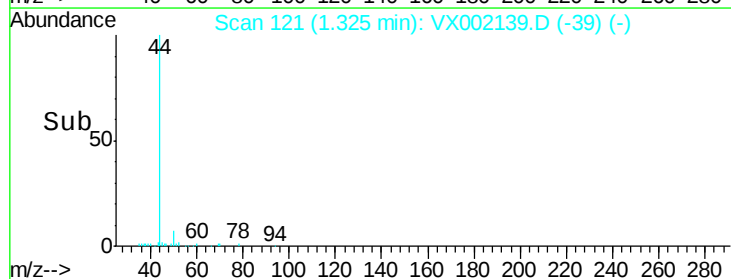
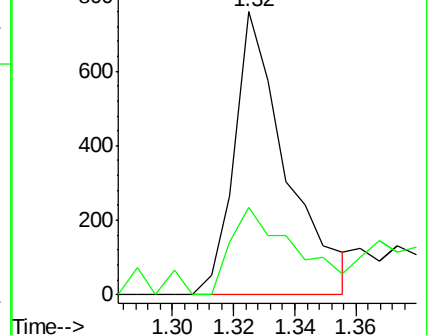
50 100

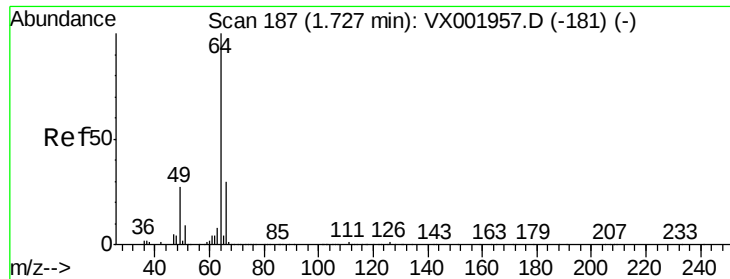
52 31.0 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#6

Chloroethane

Concen: 0.38 ug/l

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampleId :

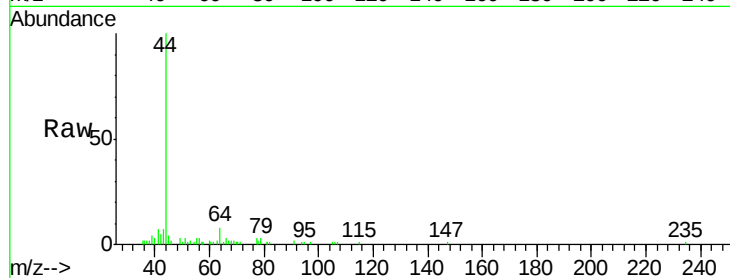
14B-4

Tgt Ion: 64 Resp: 745

Ion Ratio Lower Upper

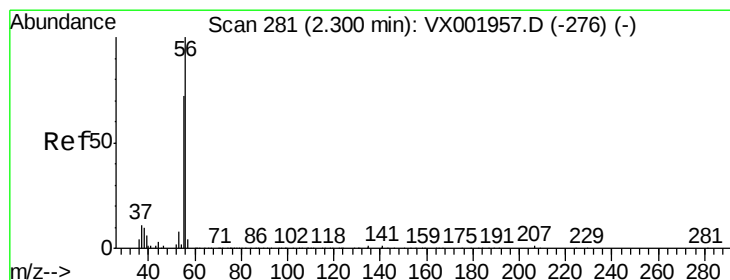
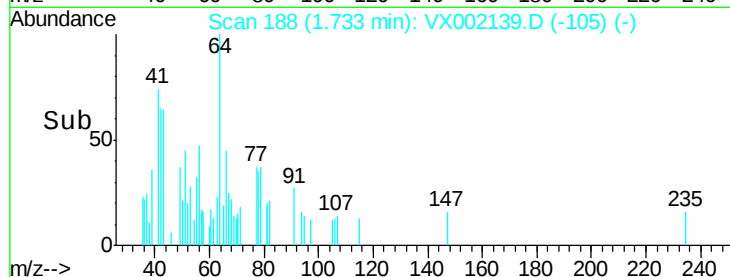
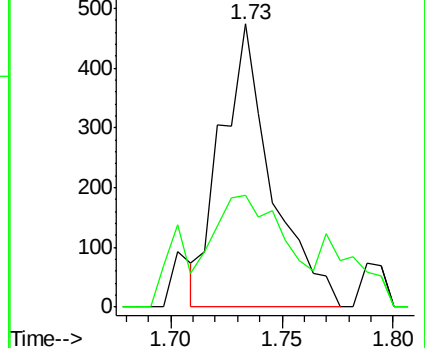
64 100

66 27.9 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#13

Acrolein

Concen: 0.25 ug/l

RT: 2.20 min Scan# 265

Delta R.T. -0.10 min

Lab File: VX002139.D

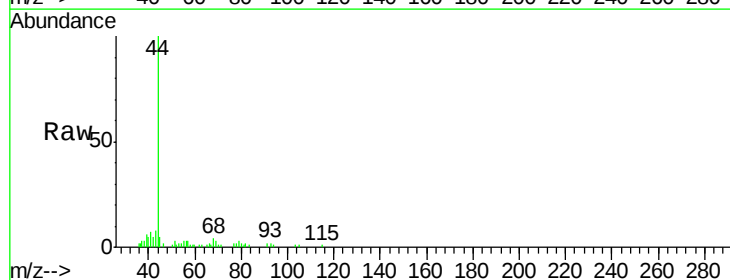
Acq: 30 May 2018 14:23

Tgt Ion: 56 Resp: 92

Ion Ratio Lower Upper

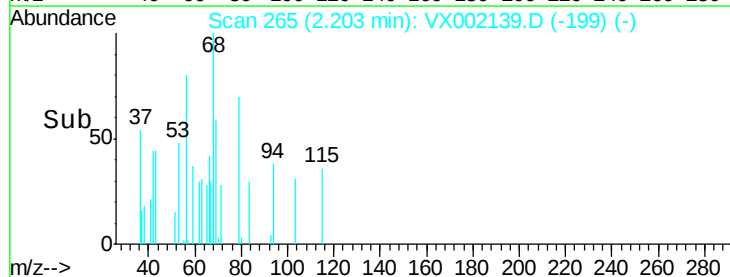
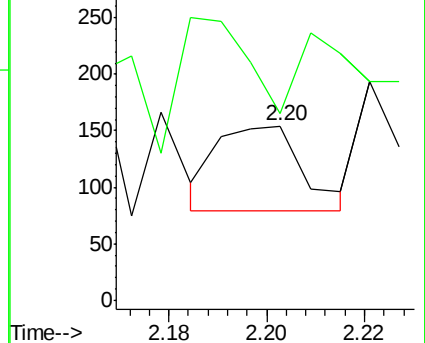
56 100

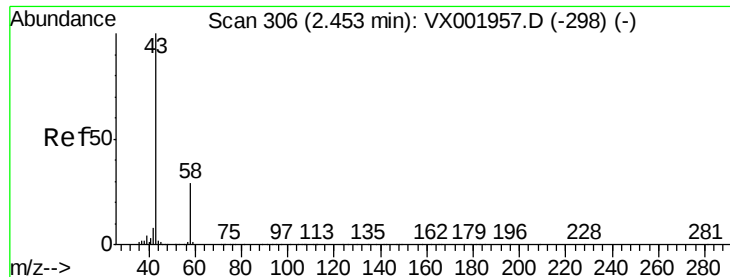
55 62.0 57.3 85.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 3.05 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampled :

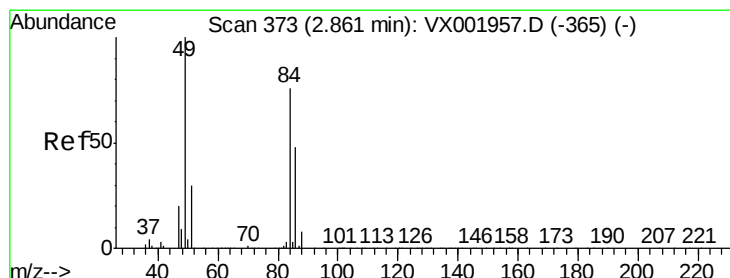
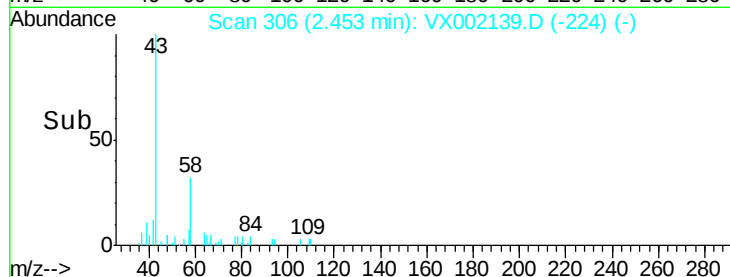
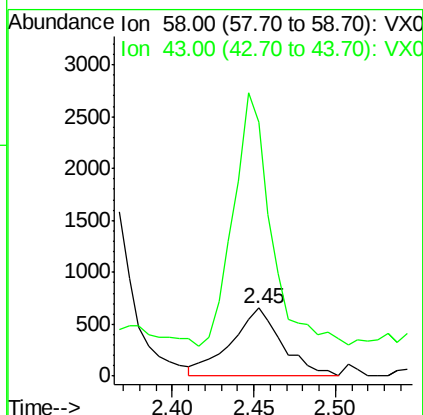
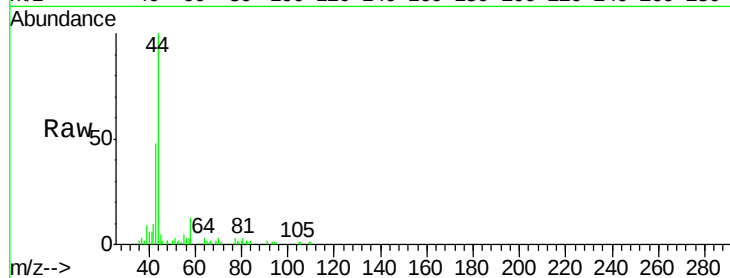
14B-4

Tgt Ion: 58 Resp: 1431

Ion Ratio Lower Upper

58 100

43 319.1 278.8 418.2



#18

Methylene Chloride

Concen: 0.55 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Tgt Ion: 84 Resp: 1622

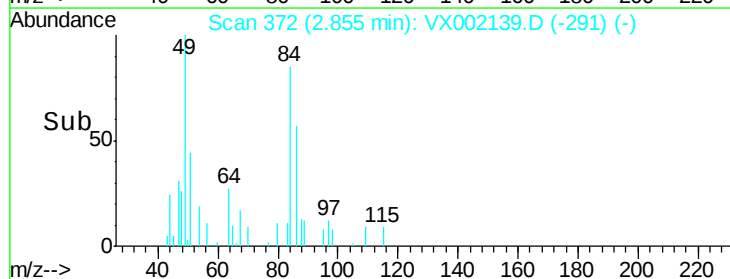
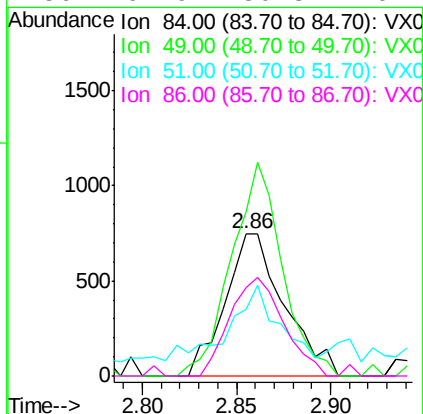
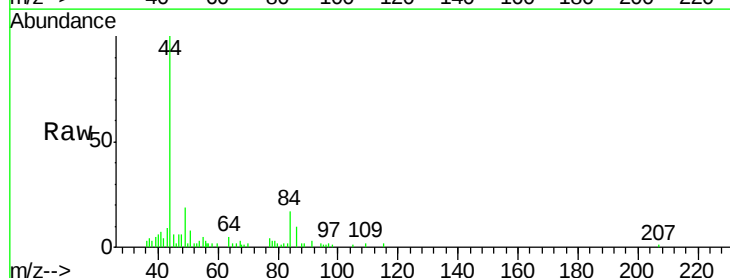
Ion Ratio Lower Upper

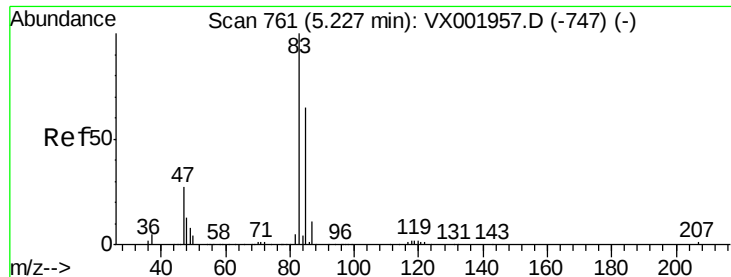
84 100

49 115.1 104.7 157.1

51 30.9 31.0 46.4#

86 61.9 50.8 76.2





#25

Chloroform

Concen: 50.14 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.01 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampled :

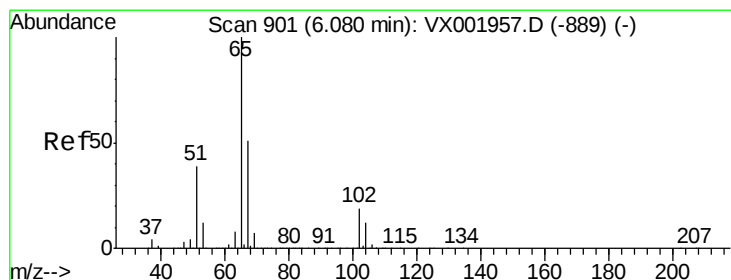
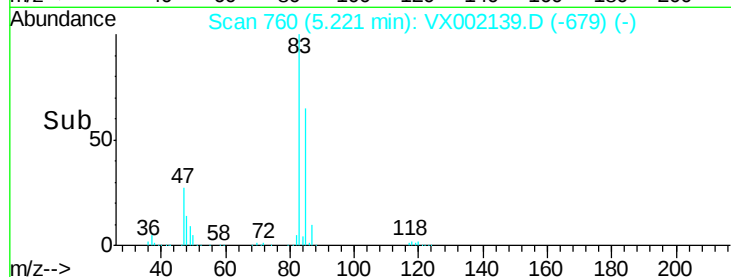
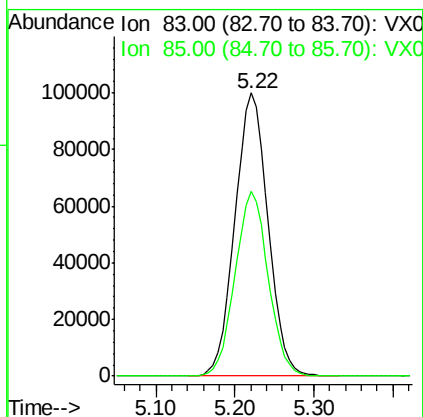
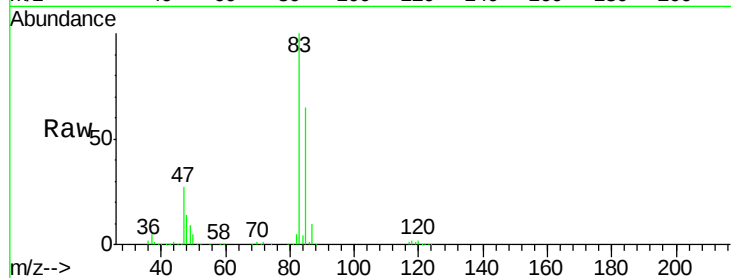
14B-4

Tgt Ion: 83 Resp: 291827

Ion Ratio Lower Upper

83 100

85 65.3 51.9 77.9



#27

1,2-Dichloroethane-d4

Concen: 30.89 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX002139.D

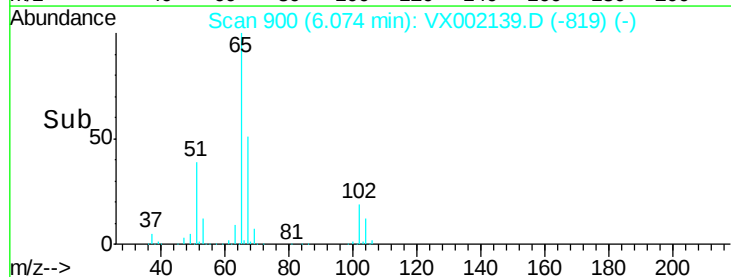
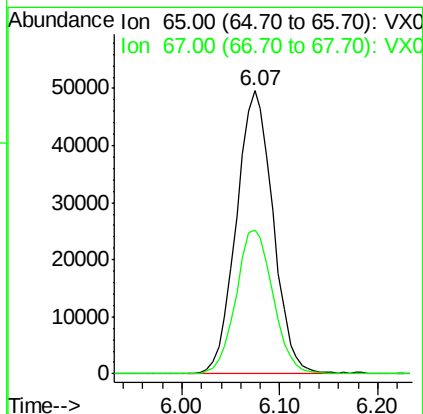
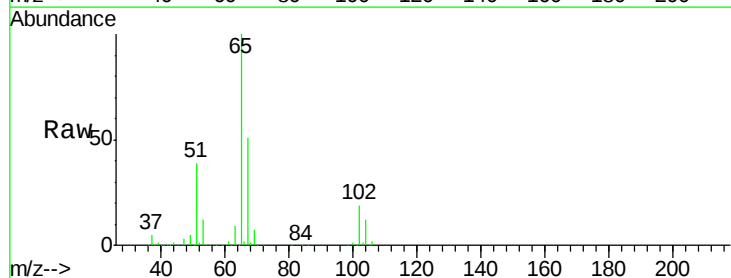
Acq: 30 May 2018 14:23

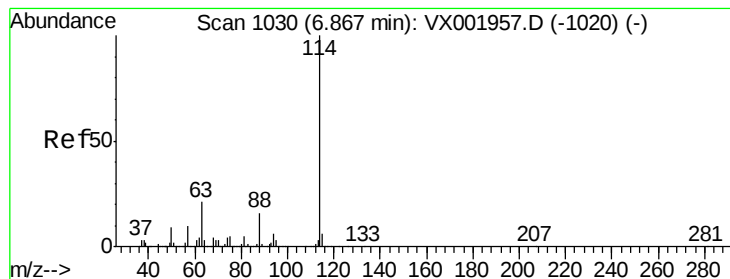
Tgt Ion: 65 Resp: 128924

Ion Ratio Lower Upper

65 100

67 51.1 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampleId :

14B-4

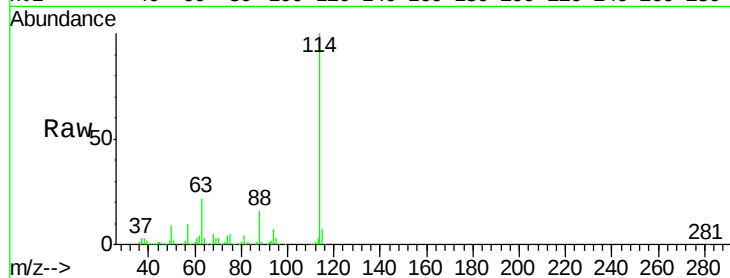
Tgt Ion: 114 Resp: 297640

Ion Ratio Lower Upper

114 100

63 21.3 17.1 25.7

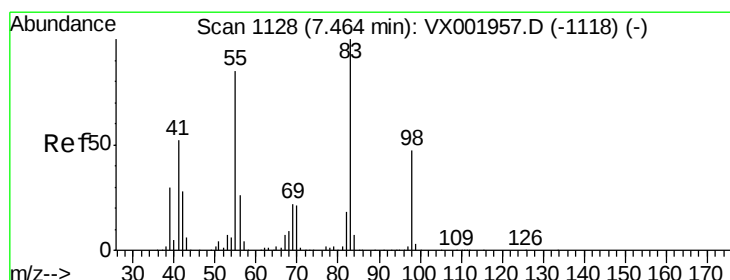
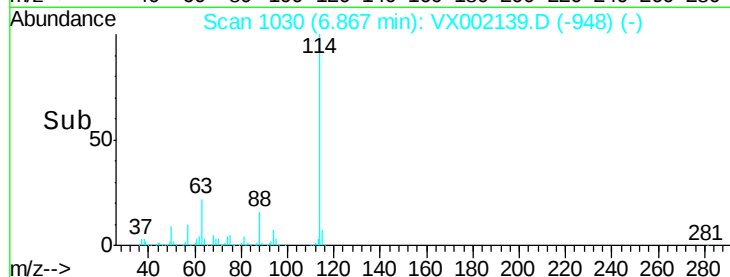
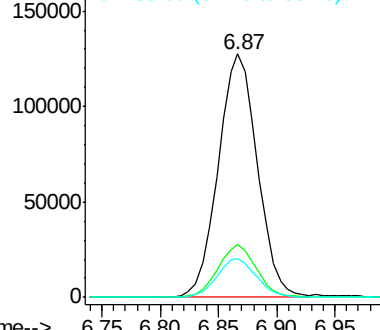
88 15.8 12.6 19.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#38

Methylcyclohexane

Concen: 9.73 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.44 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

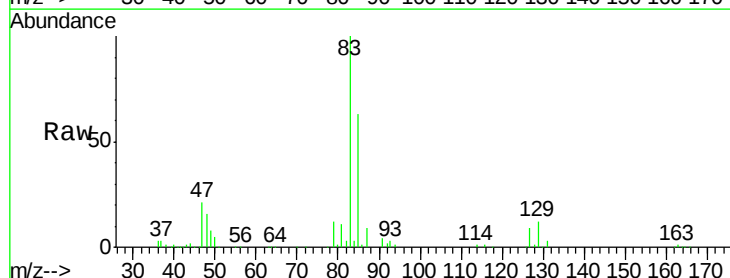
Tgt Ion: 83 Resp: 47279

Ion Ratio Lower Upper

83 100

55 0.4 40.6 121.8#

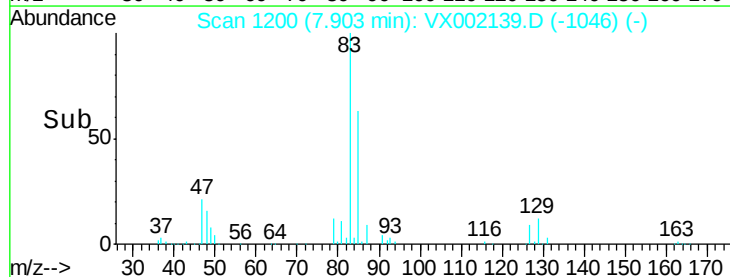
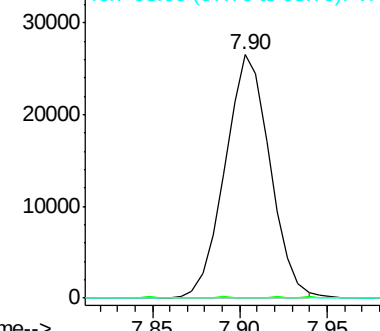
98 0.0 23.5 70.5#

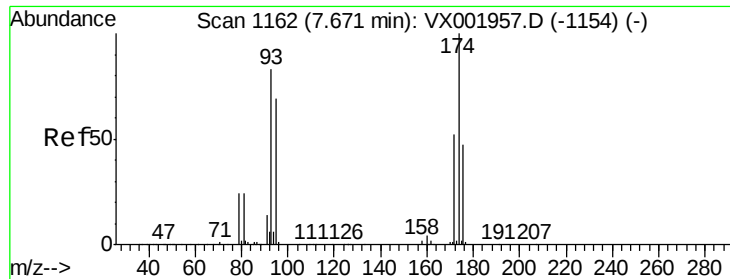


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Dibromomethane

Concen: 0.70 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. 0.24 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampleId :

14B-4

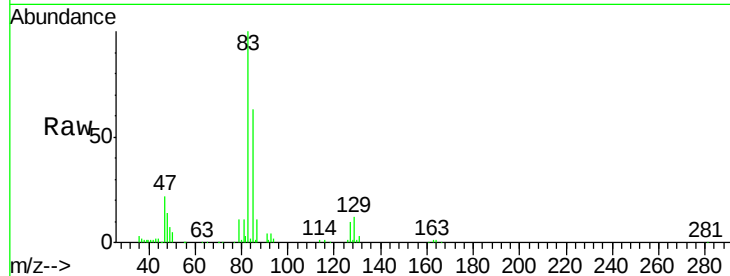
Tgt Ion: 93 Resp: 1592

Ion Ratio Lower Upper

93 100

95 0.0 0.0 162.6

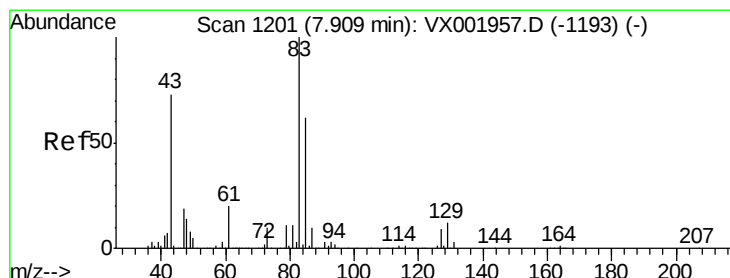
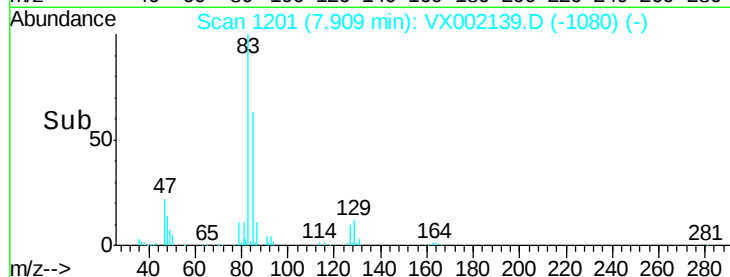
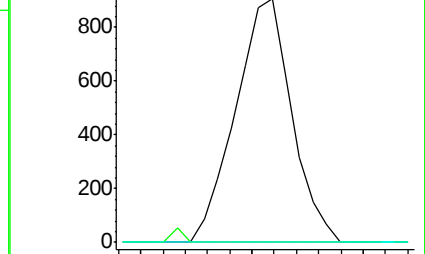
174 0.0 0.0 229.4



Abundance Ion 93.00 (92.70 to 93.70): VX0

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V



#41

Bromodichloromethane

Concen: 10.04 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

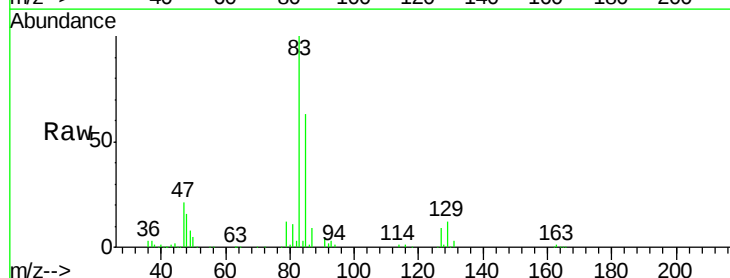
Tgt Ion: 83 Resp: 47513

Ion Ratio Lower Upper

83 100

85 62.7 49.8 74.8

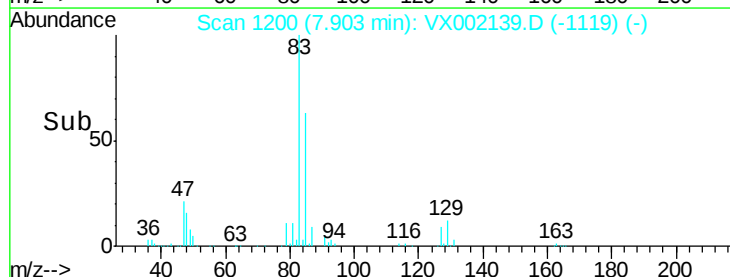
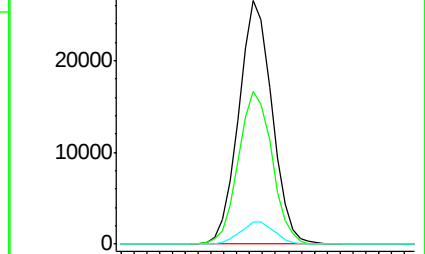
127 9.2 7.3 10.9

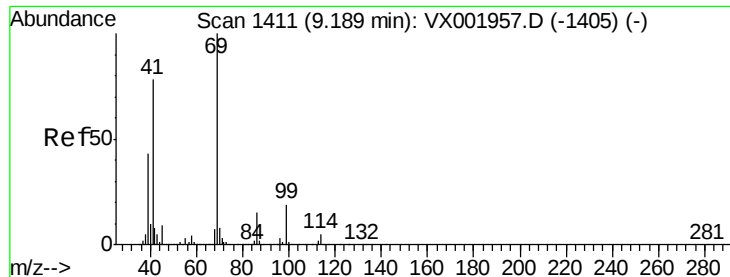


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V





#51

Ethyl methacrylate

Concen: 0.23 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.47 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampled :

14B-4

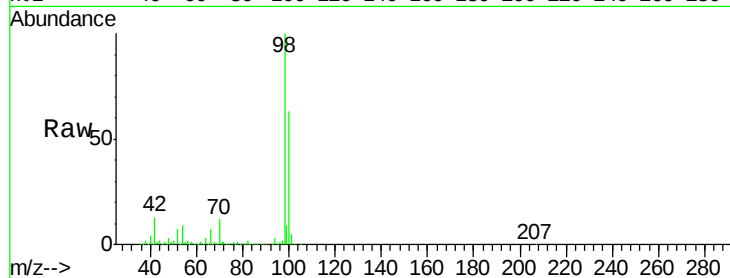
Tgt Ion: 69 Resp: 1308

Ion Ratio Lower Upper

69 100

41 89.3 39.1 117.3

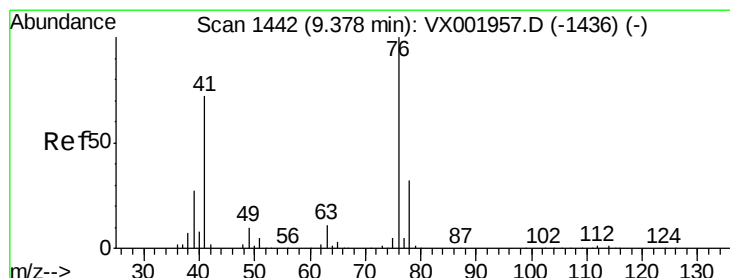
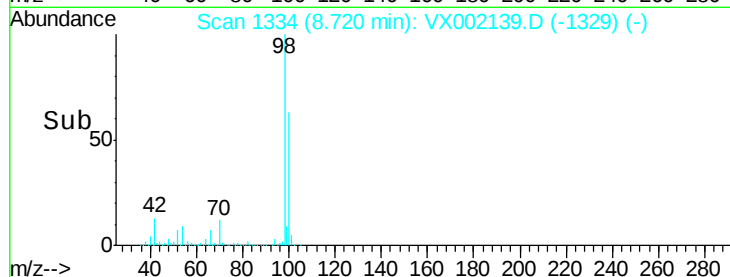
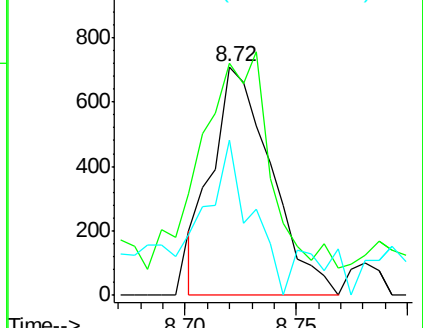
39 47.6 21.7 65.1



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#52

1,3-Dichloropropane

Concen: 0.27 ug/l

RT: 9.07 min Scan# 1391

Delta R.T. -0.31 min

Lab File: VX002139.D

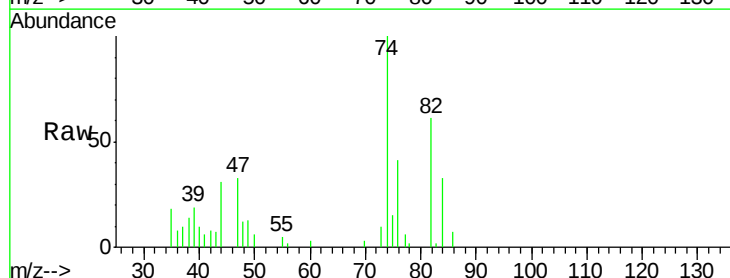
Acq: 30 May 2018 14:23

Tgt Ion: 76 Resp: 1504

Ion Ratio Lower Upper

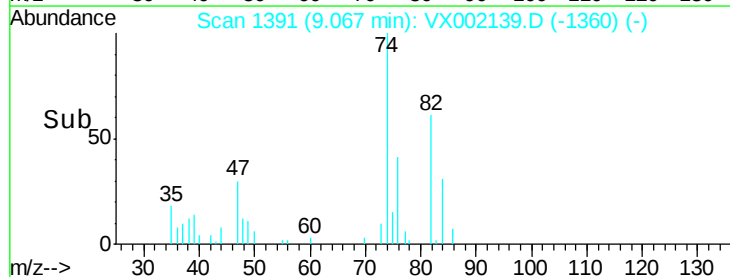
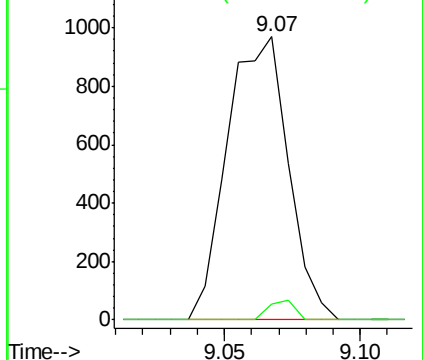
76 100

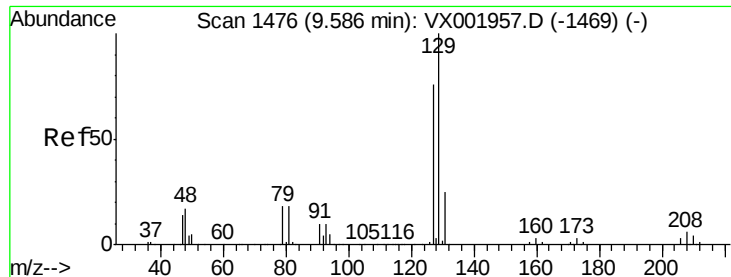
78 3.0 0.0 63.4



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 0.95 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampleId :

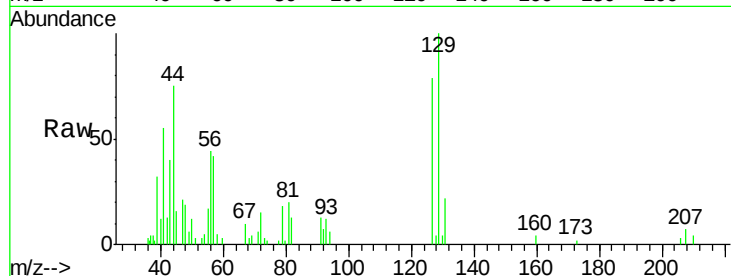
14B-4

Tgt Ion:129 Resp: 3818

Ion Ratio Lower Upper

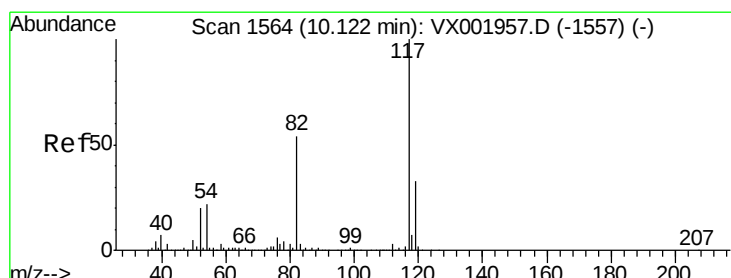
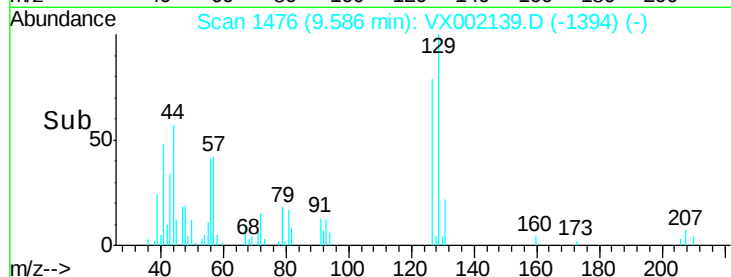
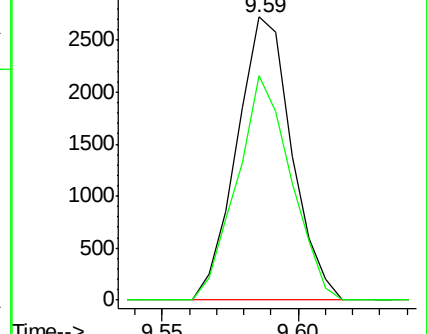
129 100

127 77.7 38.5 115.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

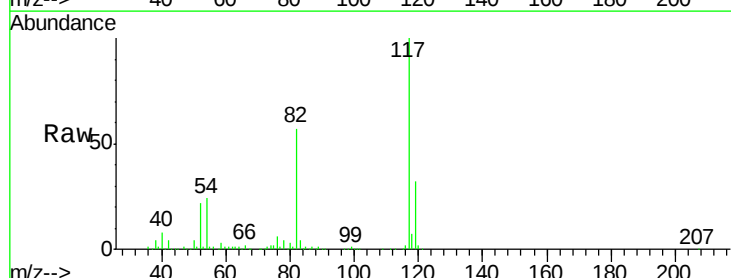
Tgt Ion:117 Resp: 259822

Ion Ratio Lower Upper

117 100

82 55.7 44.3 66.5

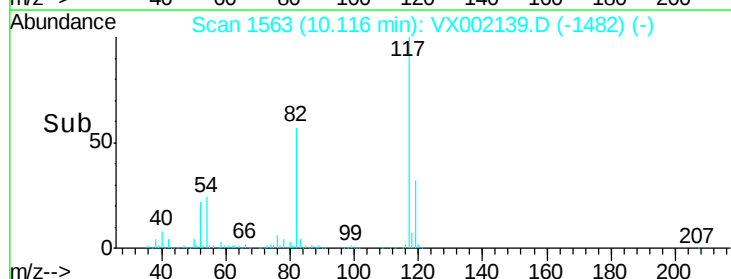
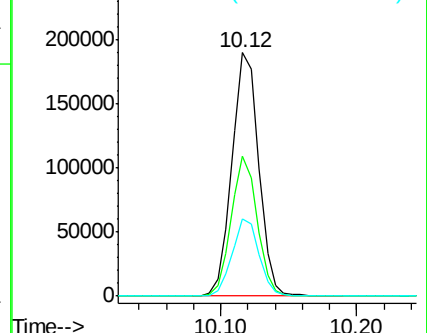
119 31.9 25.7 38.5

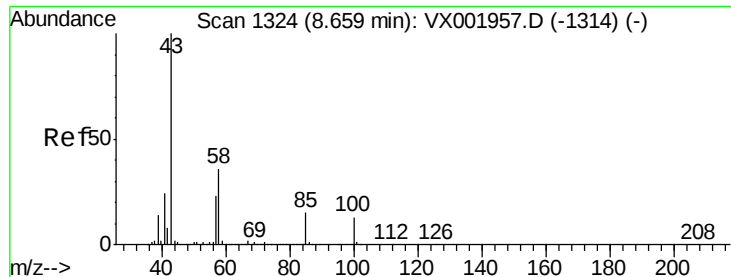


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

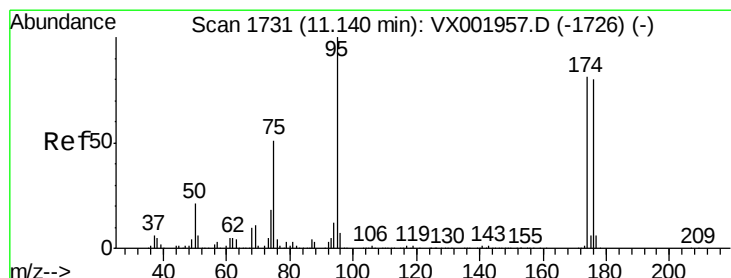
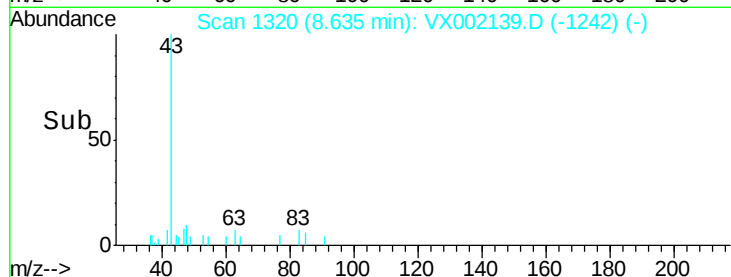
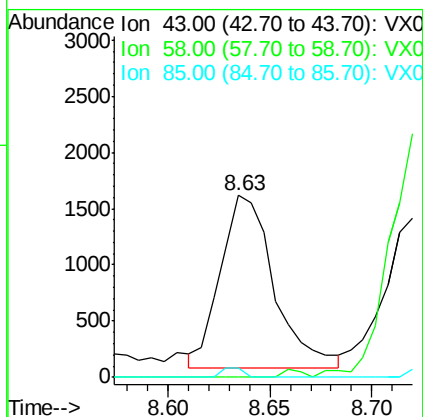
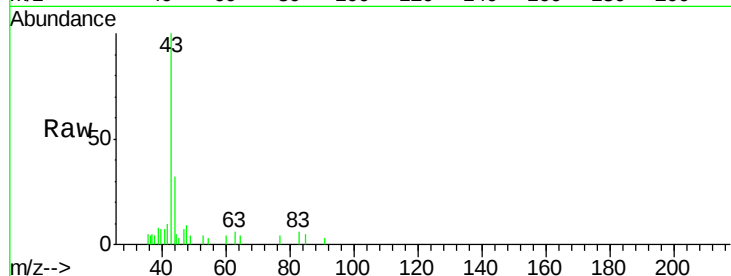




#58
 4-Methyl-2-Pentanone
 Concen: 0.49 ug/l
 RT: 8.63 min Scan# 1320
 Delta R.T. -0.02 min
 Lab File: VX002139.D
 Acq: 30 May 2018 14:23

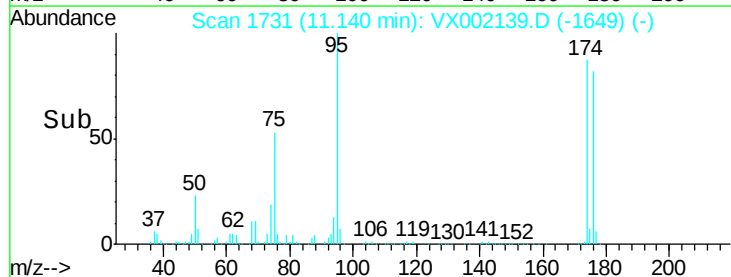
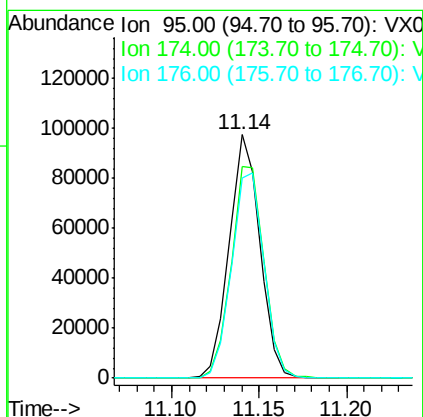
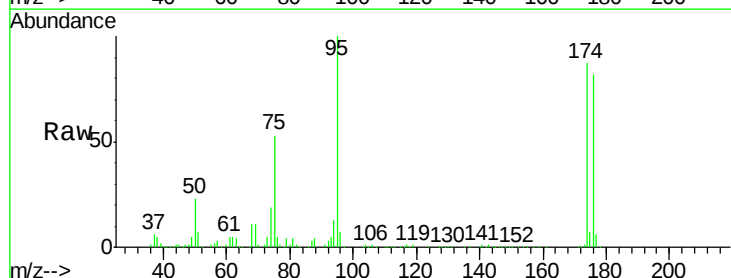
Instrument :
 MSVOA_X
 ClientSampled :
 14B-4

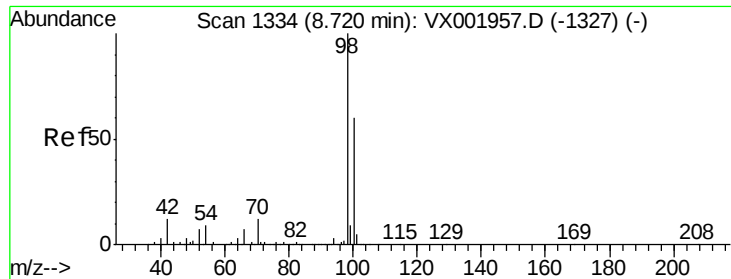
Tgt Ion: 43 Resp: 2777
 Ion Ratio Lower Upper
 43 100
 58 1.6 28.2 42.4#
 85 2.2 12.4 18.6#



#60
 4-Bromofluorobenzene
 Concen: 26.84 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX002139.D
 Acq: 30 May 2018 14:23

Tgt Ion: 95 Resp: 119376
 Ion Ratio Lower Upper
 95 100
 174 92.4 71.8 107.6
 176 89.2 70.1 105.1





#63

Toluene-d8

Concen: 30.94 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Instrument :

MSVOA_X

ClientSampleId :

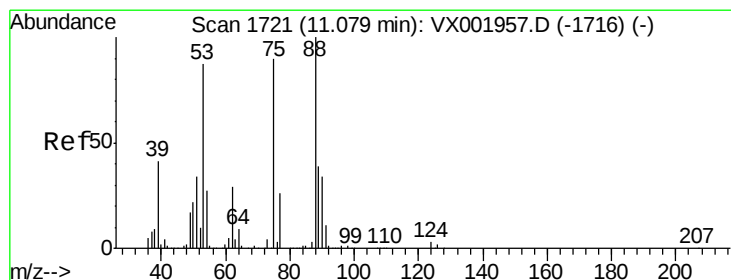
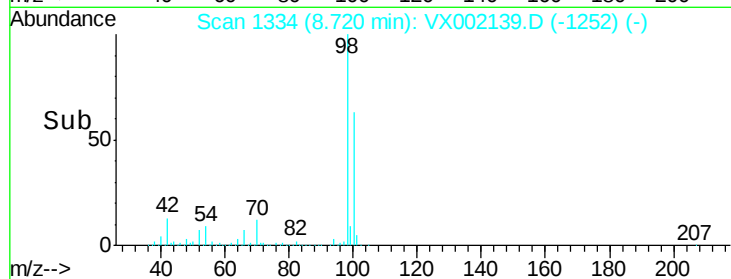
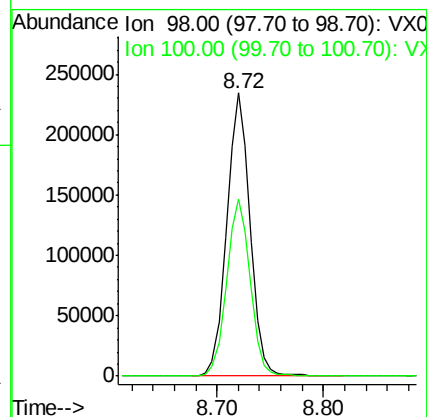
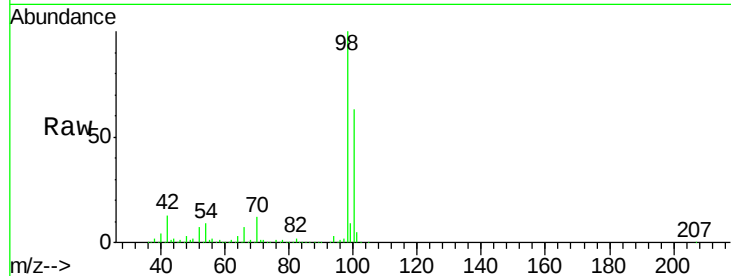
14B-4

Tgt Ion: 98 Resp: 358286

Ion Ratio Lower Upper

98 100

100 63.2 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 39.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002139.D

Acq: 30 May 2018 14:23

Tgt Ion: 75 Resp: 64671

Ion Ratio Lower Upper

75 100

53 0.0 48.3 144.9#

89 0.0 21.8 65.4#

