

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070518\
 Data File : VX003177.D
 Acq On : 05 Jul 2018 17:26
 Operator : JC/MD
 Sample : J3842-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 06 01:04:16 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	263888	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	365755	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348785	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187293	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	167258	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
35) Dibromofluoromethane	5.51	113	139644	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
50) Toluene-d8	8.72	98	504357	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	11.14	95	178537	43.77	ug/l	0.00
Spiked Amount			Recovery	=	87.54%	

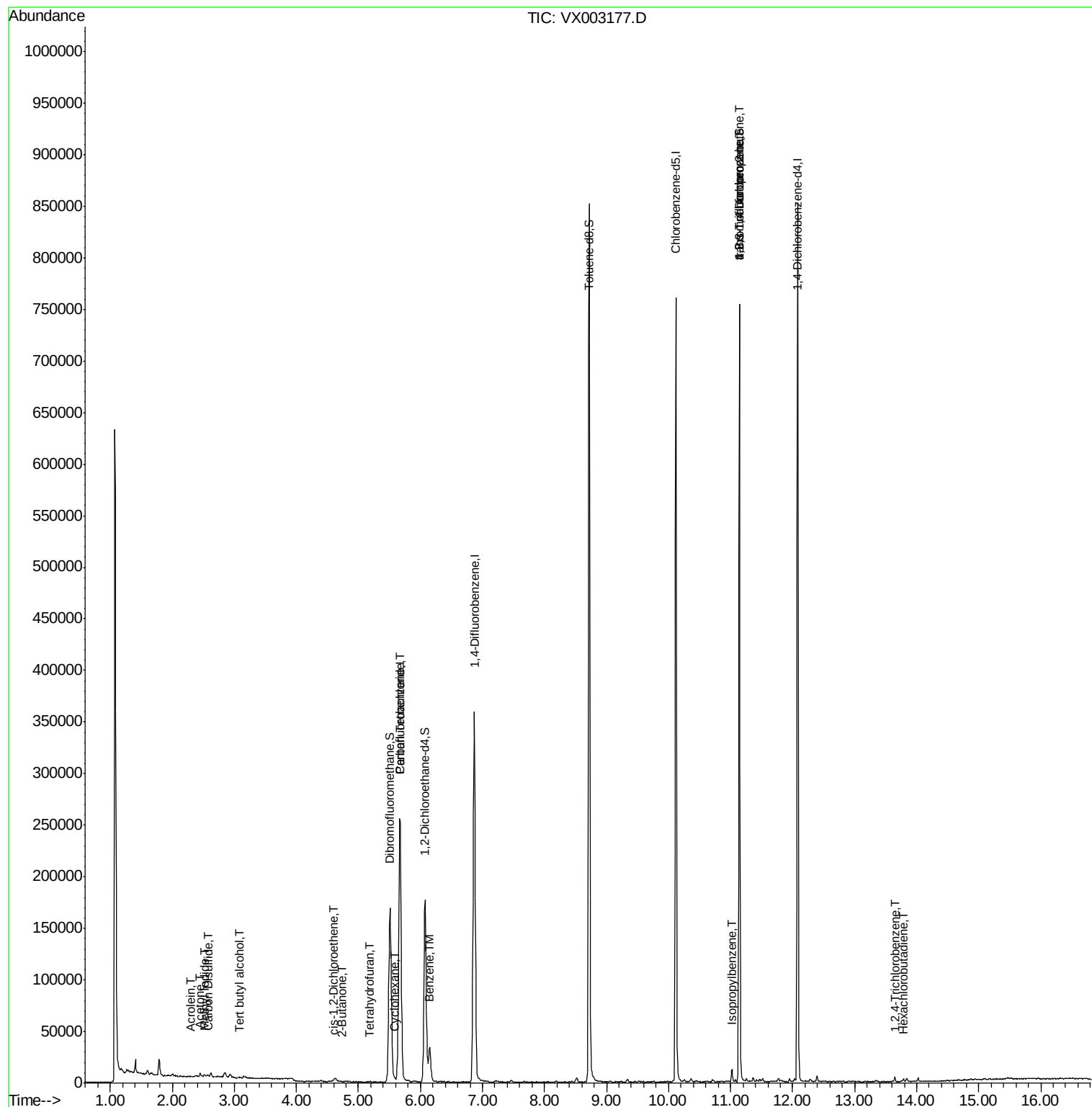
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	224	Below Cal		89
3) Chloromethane	1.32	50	1073	Below Cal		98
5) Bromomethane	1.65	94	1637	Below Cal		94
6) Chloroethane	1.71	64	350	Below Cal	#	70
10) Methyl Iodide	2.52	142	2992	7.11	ug/l	# 92
11) Tert butyl alcohol	3.08	59	1117	1.54	ug/l	# 72
13) Acrolein	2.29	56	329	5.03	ug/l	# 14
16) Acetone	2.45	43	3513	2.33	ug/l	96
17) Carbon Disulfide	2.57	76	2213	0.32	ug/l	# 52
25) 2-Butanone	4.73	43	526	0.23	ug/l	# 52
27) cis-1,2-Dichloroethene	4.60	96	791	0.25	ug/l	# 11
29) Tetrahydrofuran	5.18	42	669	0.47	ug/l	# 50
31) Cyclohexane	5.58	56	2195	0.48	ug/l	# 82
38) Carbon Tetrachloride	5.67	117	23523	5.34	ug/l	# 16
40) Benzene	6.15	78	37959	3.26	ug/l	99
73) Isopropylbenzene	11.02	105	5972	0.47	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	88493	26.08	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	88493	73.95	ug/l	# 7
93) 1,2,4-Trichlorobenzene	13.65	180	1129	0.23	ug/l	98
94) Hexachlorobutadiene	13.79	225	636	0.26	ug/l	87

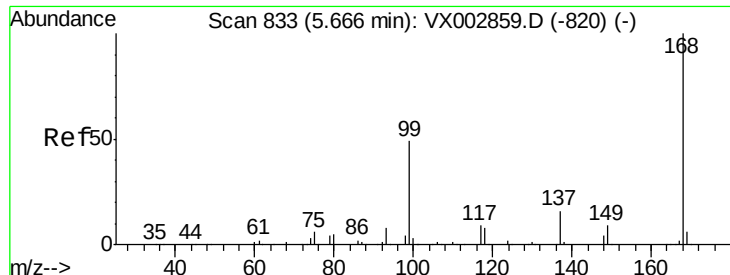
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

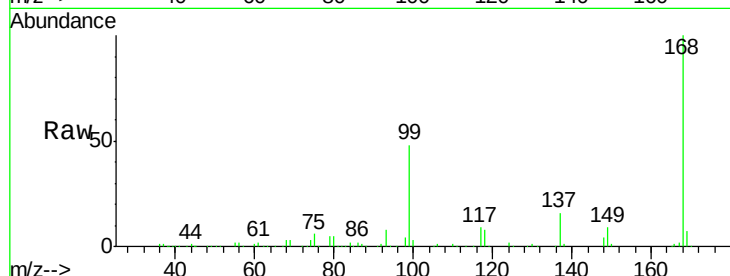
ClientSampleId :

Tot Ion:168 Resp: 263888

Ion Ratio Lower Upper

168 100

99 48.1 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

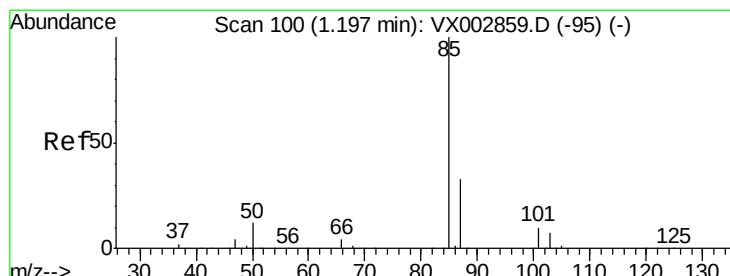
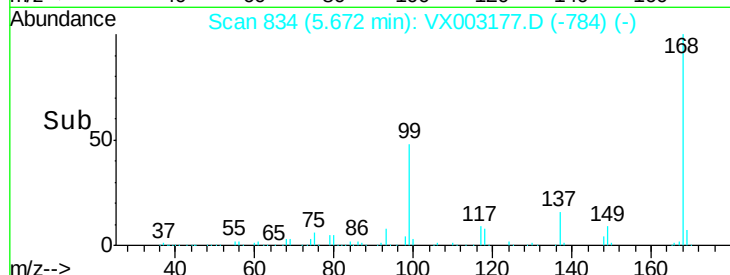
60000

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: VX003177.D

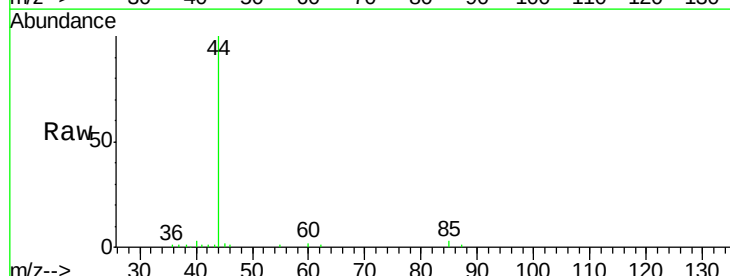
Acq: 05 Jul 2018 17:26

Tgt Ion: 85 Resp: 224

Ion Ratio Lower Upper

85 100

87 25.7 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

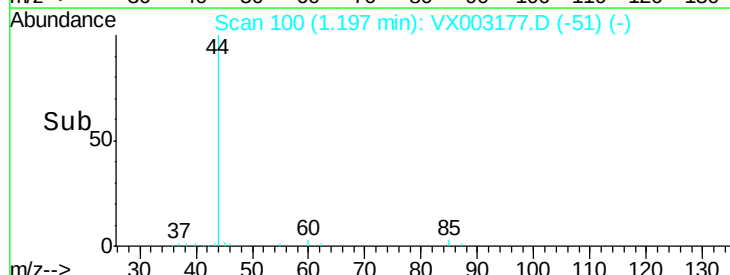
300

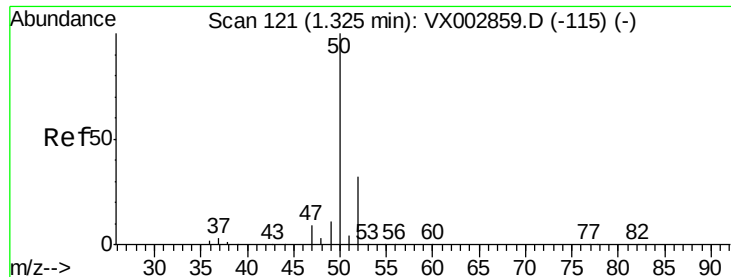
200

100

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: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

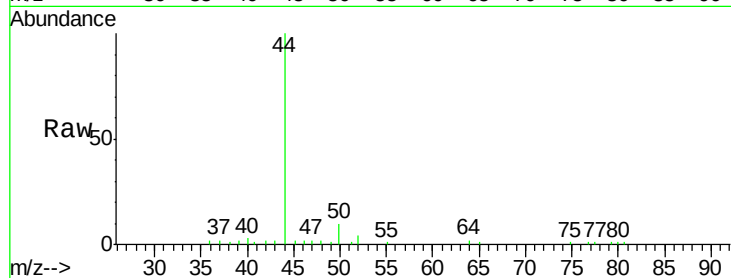
ClientSampleId :

Tot Ion: 50 Resp: 1073

Ion Ratio Lower Upper

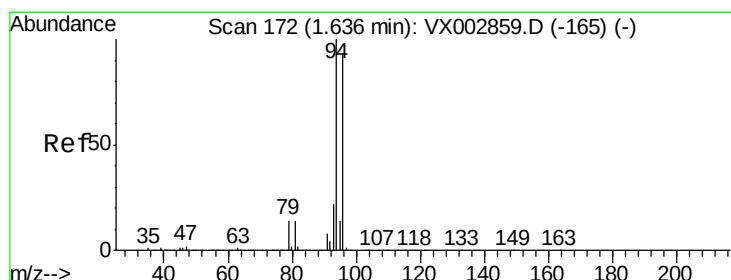
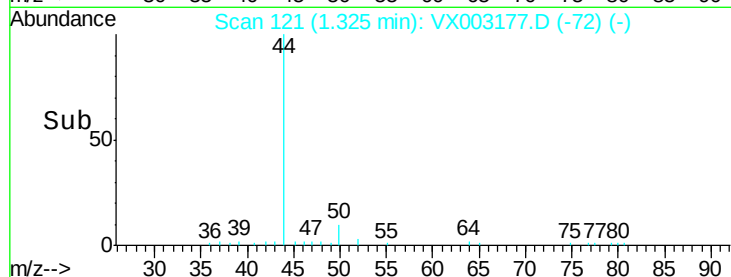
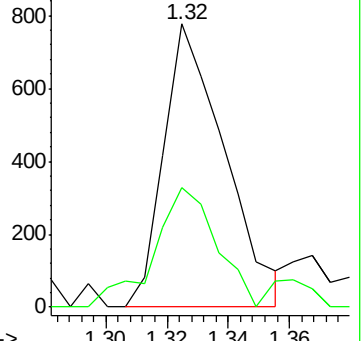
50 100

52 33.2 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: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003177.D

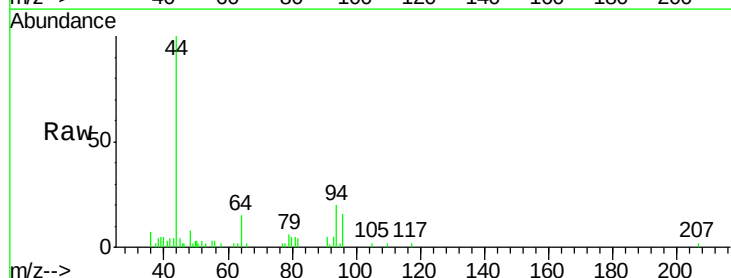
Acq: 05 Jul 2018 17:26

Tgt Ion: 94 Resp: 1637

Ion Ratio Lower Upper

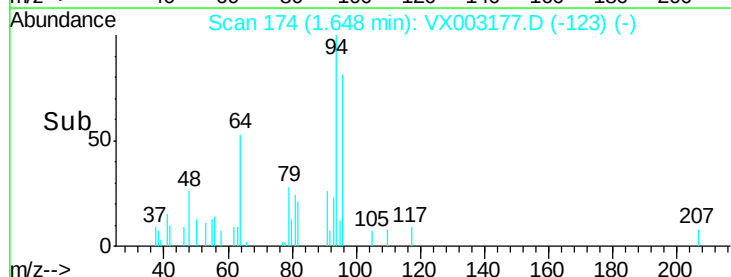
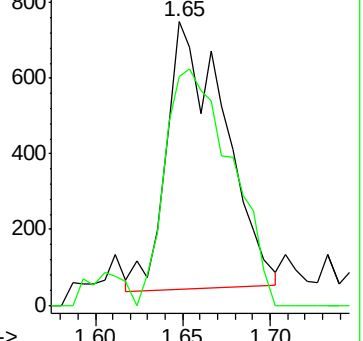
94 100

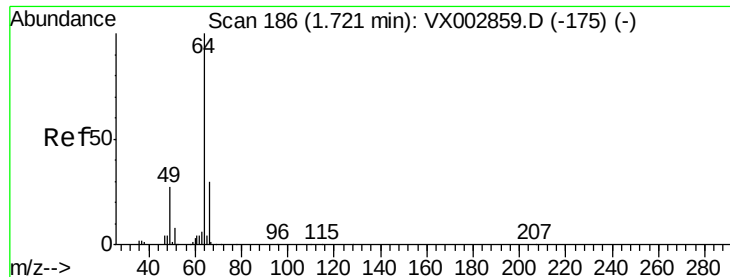
96 88.2 74.9 112.3



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: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

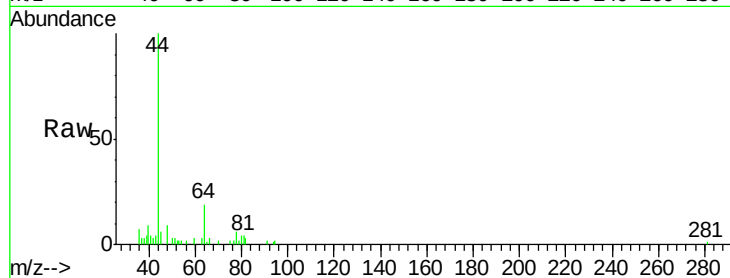
ClientSampled :

Tot Ion: 64 Resp: 350

Ion Ratio Lower Upper

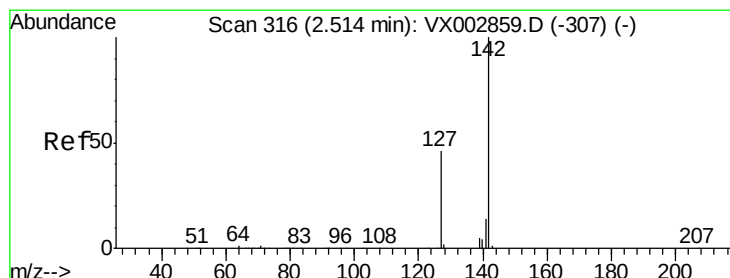
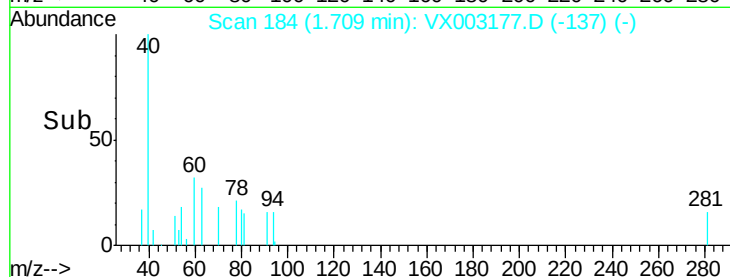
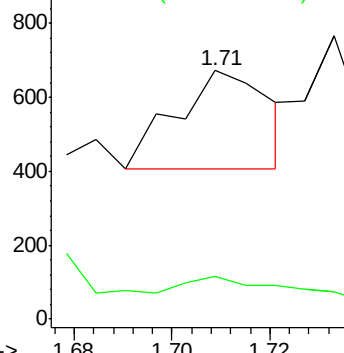
64 100

66 15.1 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 7.11 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

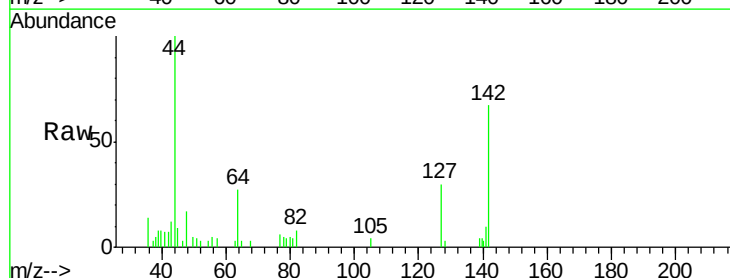
Tgt Ion:142 Resp: 2992

Ion Ratio Lower Upper

142 100

127 51.0 36.6 55.0

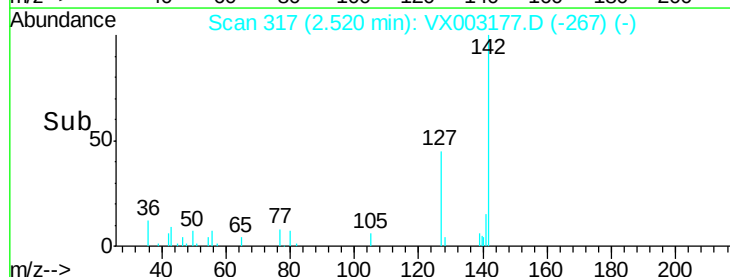
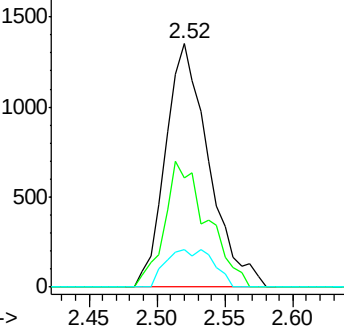
141 17.0 11.3 16.9#

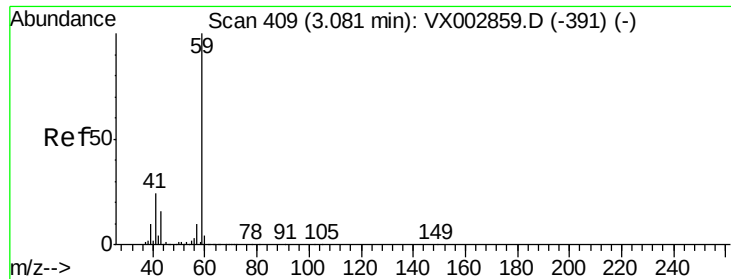


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



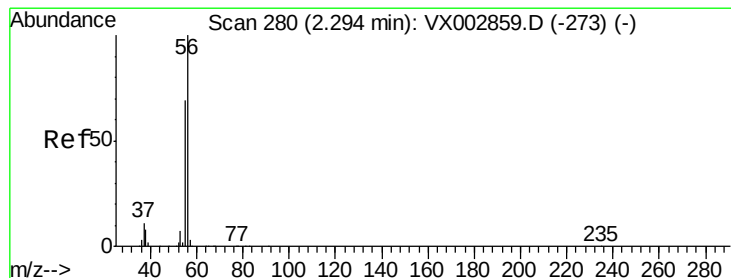
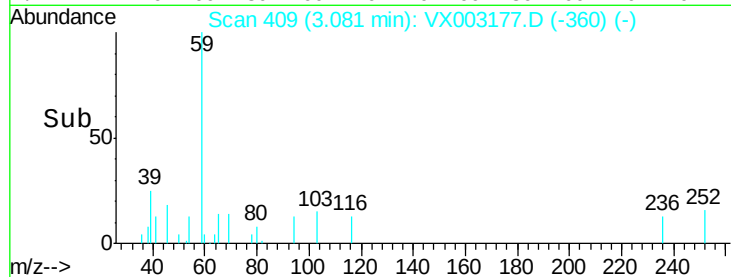
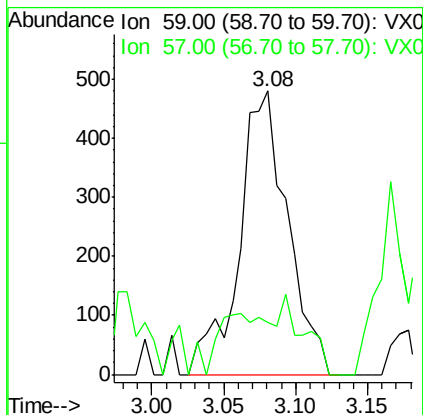
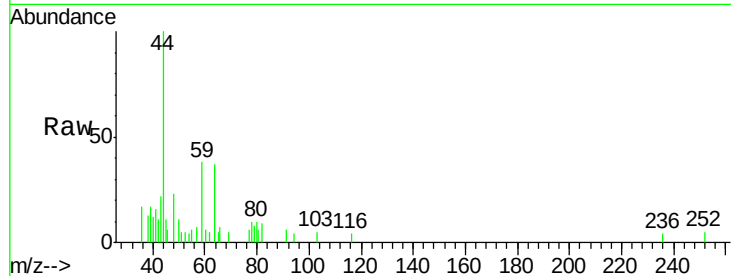


#11

Tert butyl alcohol
 Concen: 1.54 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. -0.00 min
 Lab File: VX003177.D
 Acq: 05 Jul 2018 17:26

Instrument :
 MSVOA_X
 ClientSampled :

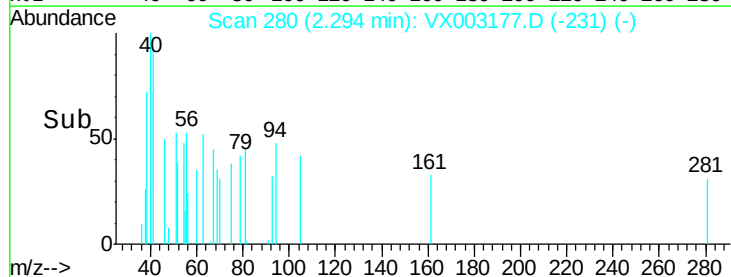
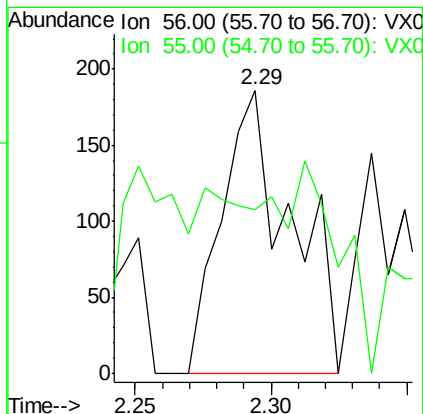
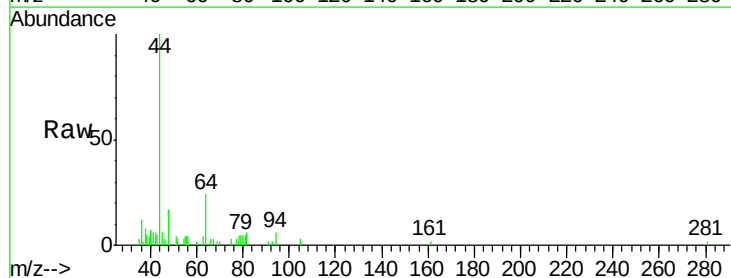
Tot Ion: 59 Resp: 1117
 Ion Ratio Lower Upper
 59 100
 57 20.7 8.2 12.2#

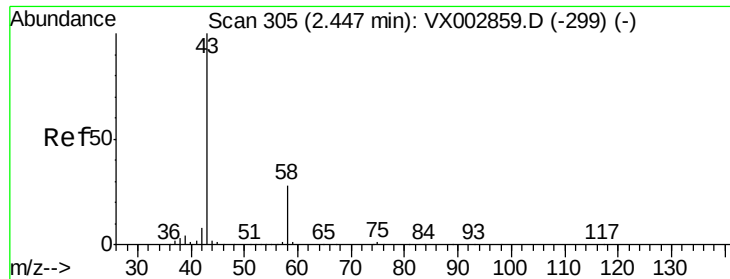


#13

Acrolein
 Concen: 5.03 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX003177.D
 Acq: 05 Jul 2018 17:26

Tgt Ion: 56 Resp: 329
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 2.33 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

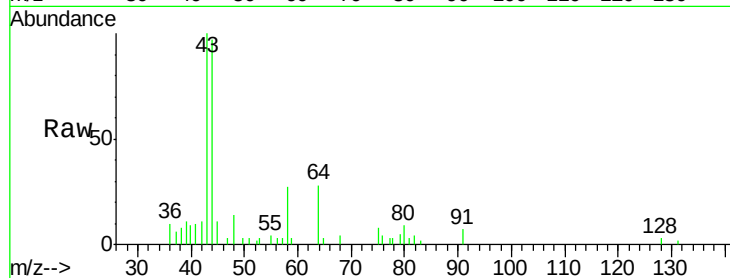
ClientSampleId :

Tot Ion: 43 Resp: 3513

Ion Ratio Lower Upper

43 100

58 25.6 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

1000

500

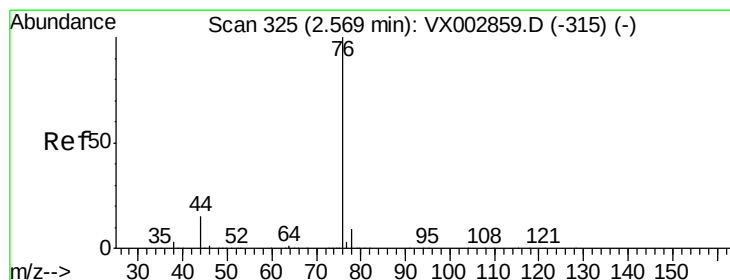
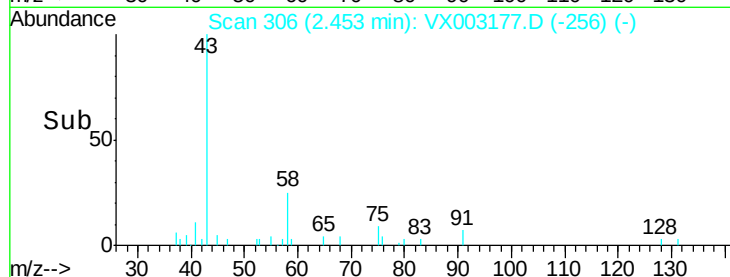
0

2.40

2.45

2.50

Time-->



#17

Carbon Disulfide

Concen: 0.32 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX003177.D

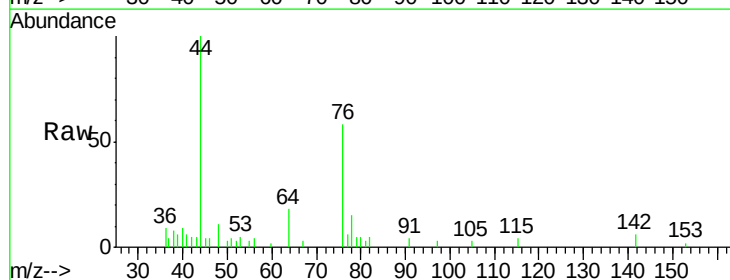
Acq: 05 Jul 2018 17:26

Tgt Ion: 76 Resp: 2213

Ion Ratio Lower Upper

76 100

78 25.8 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1500

1000

500

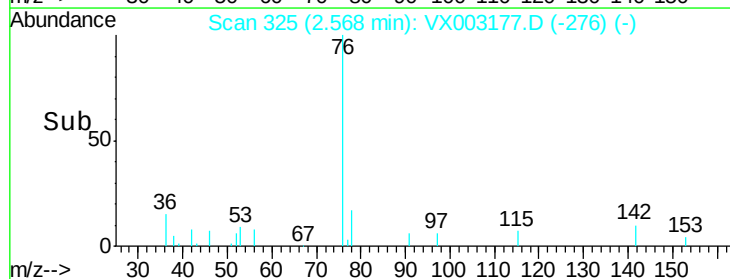
0

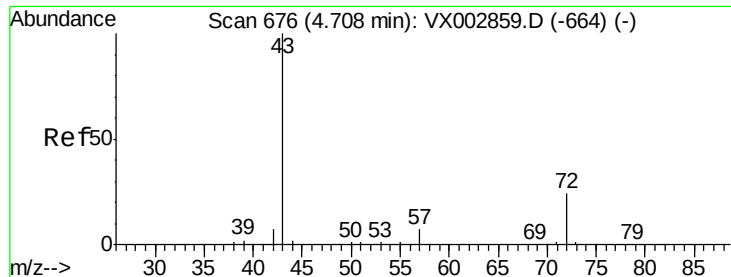
2.50

2.55

2.60

Time-->





#25

2-Butanone

Concen: 0.23 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.02 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

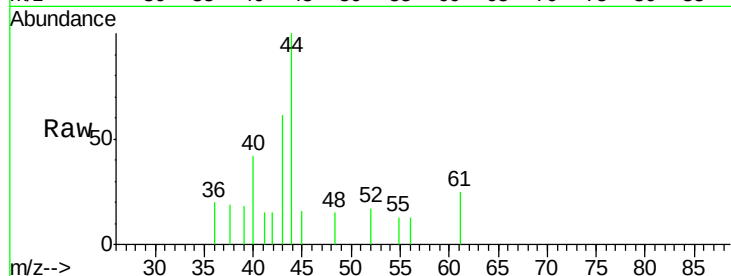
ClientSampled :

Tot Ion: 43 Resp: 526

Ion Ratio Lower Upper

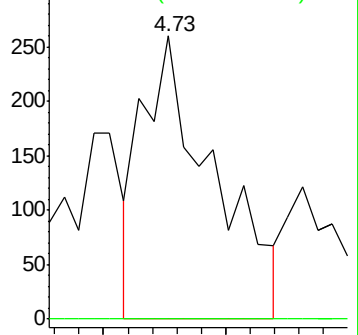
43 100

72 0.0 18.5 27.7#

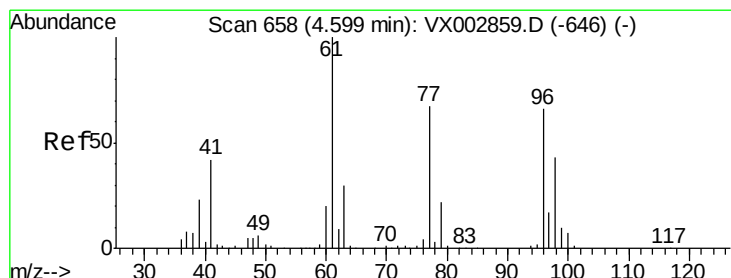
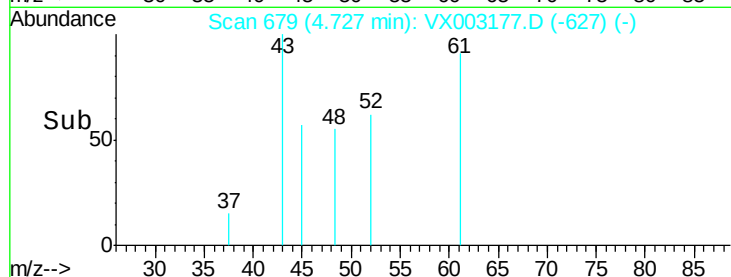


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.25 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

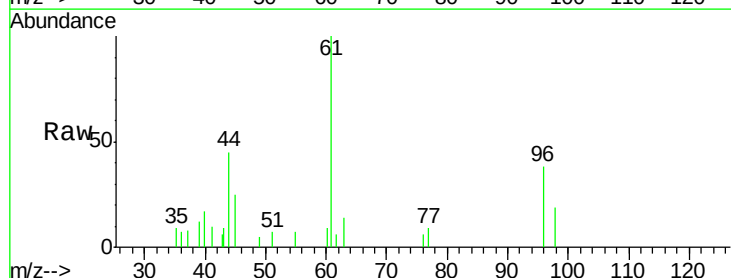
Tgt Ion: 96 Resp: 791

Ion Ratio Lower Upper

96 100

61 0.0 0.0 330.2

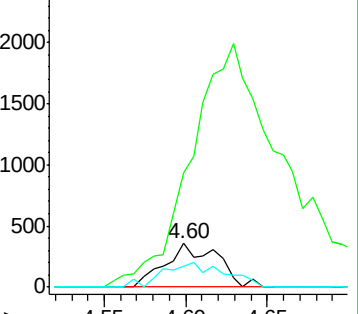
98 68.1 0.0 130.2



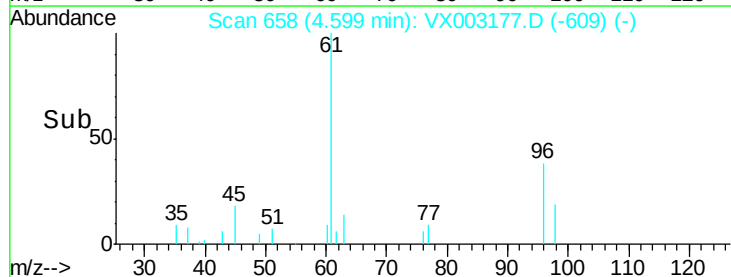
Abundance Ion 95.90 (95.60 to 96.60): VX0

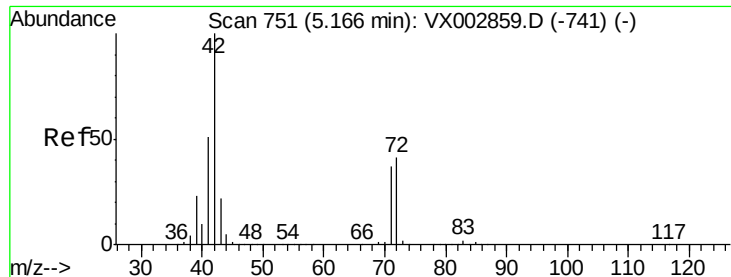
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->





#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

ClientSampled :

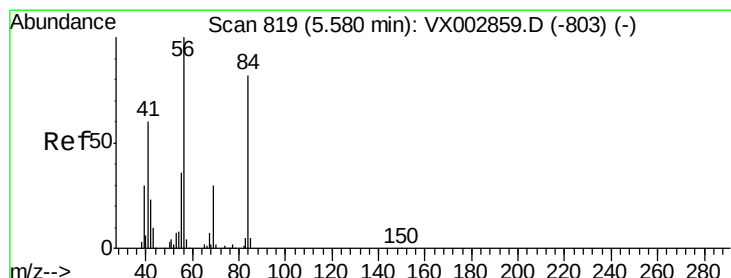
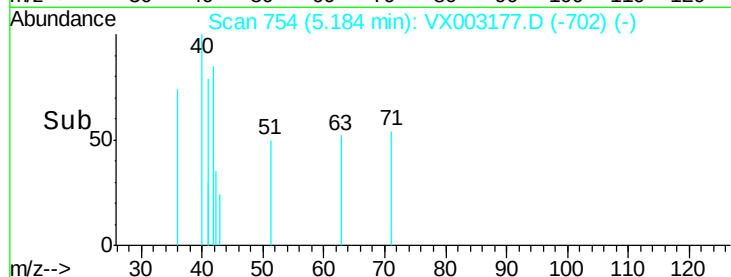
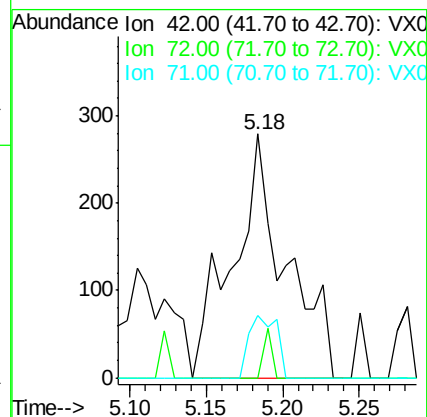
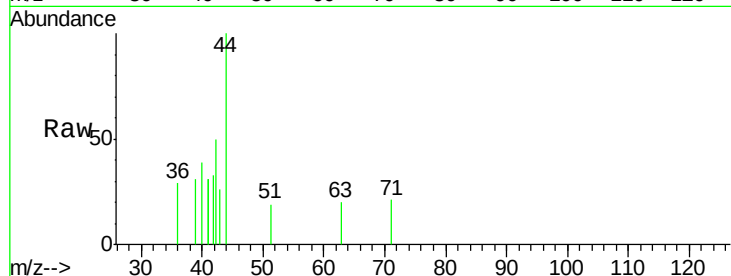
Tot Ion: 42 Resp: 669

Ion Ratio Lower Upper

42 100

72 3.0 32.0 48.0#

71 13.5 30.1 45.1#



#31

Cyclohexane

Concen: 0.48 ug/l

RT: 5.58 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

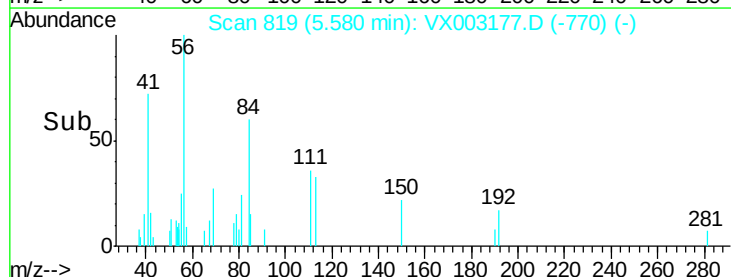
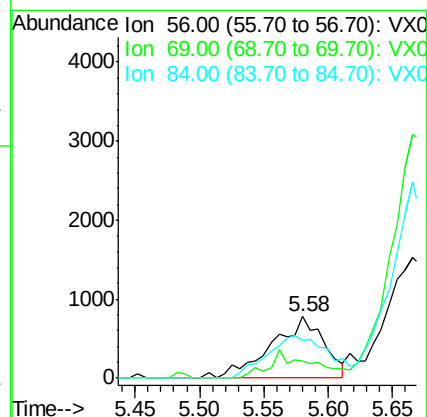
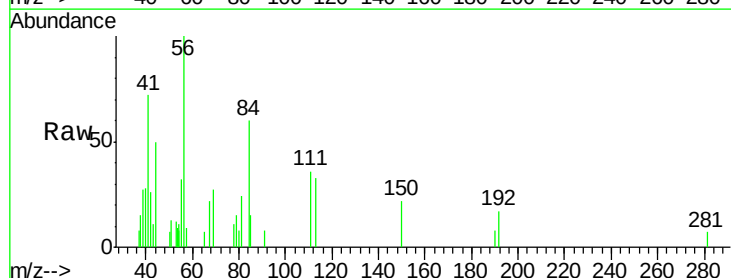
Tgt Ion: 56 Resp: 2195

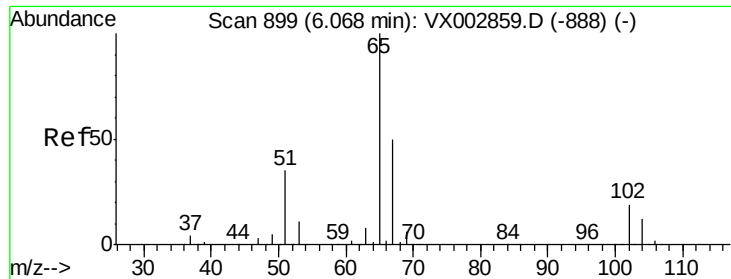
Ion Ratio Lower Upper

56 100

69 27.0 23.7 35.5

84 60.2 64.1 96.1#

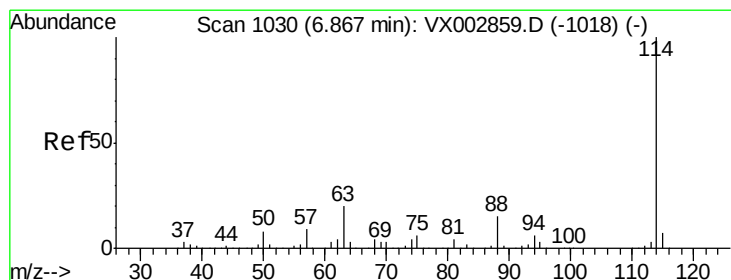
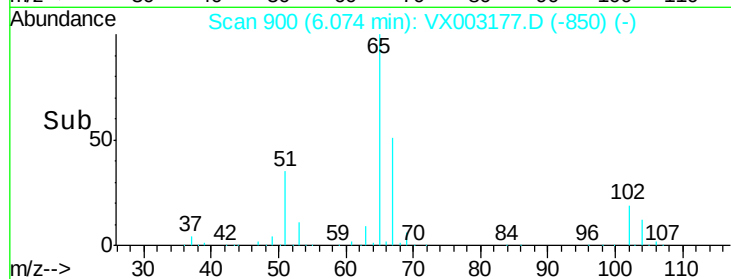
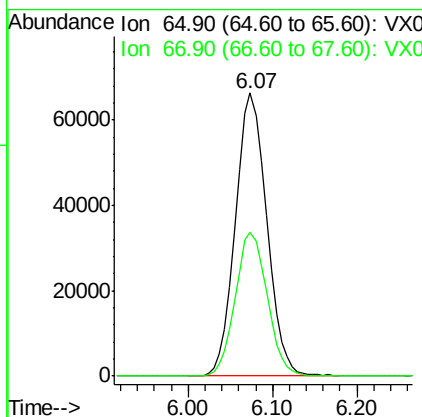
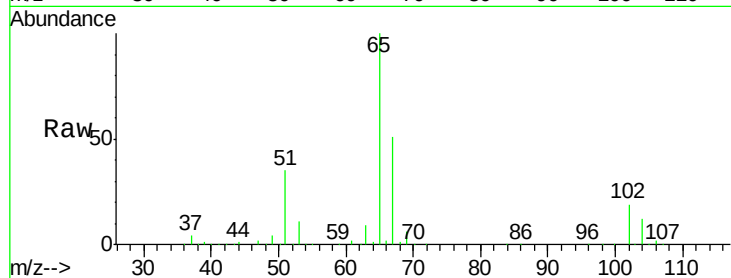




#33
 1,2-Dichloroethane-d4
 Concen: 45.86 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003177.D
 Acq: 05 Jul 2018 17:26

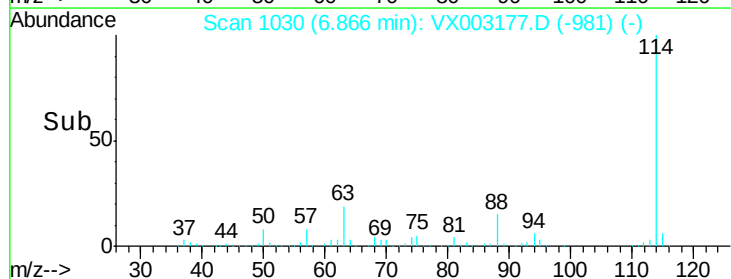
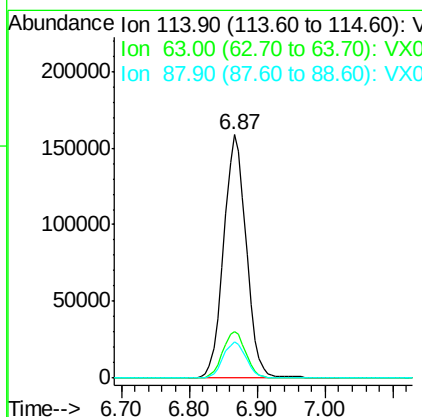
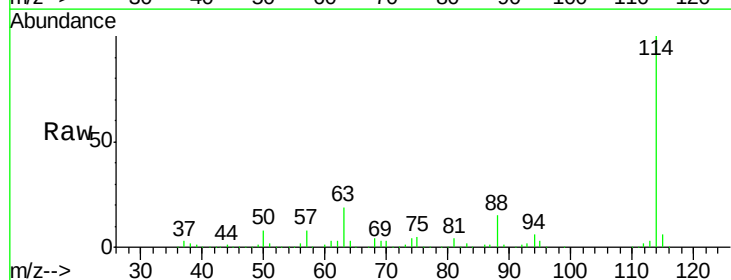
Instrument :
 MSVOA_X
 ClientSampleId :

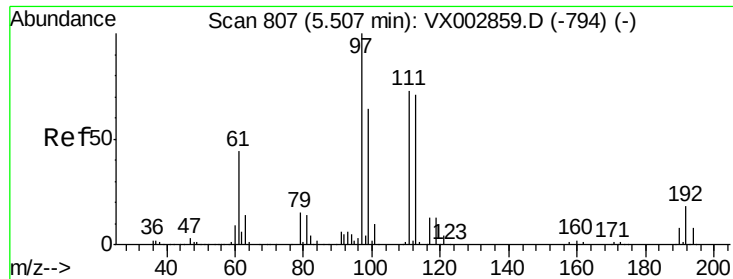
Tot Ion: 65 Resp: 167258
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003177.D
 Acq: 05 Jul 2018 17:26

Tgt Ion: 114 Resp: 365755
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 41.4
 88 14.9 0.0 30.0

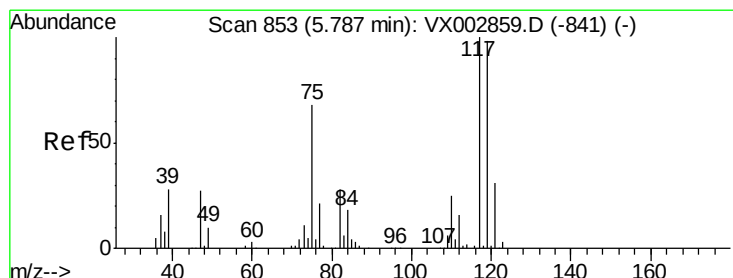
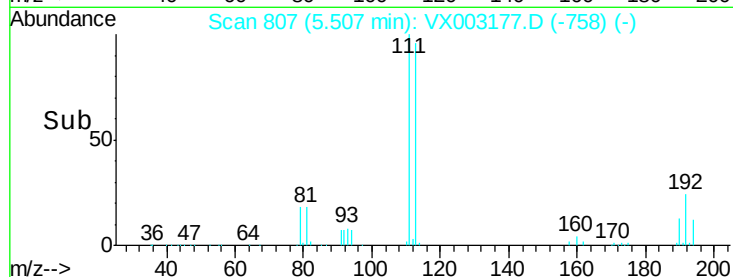
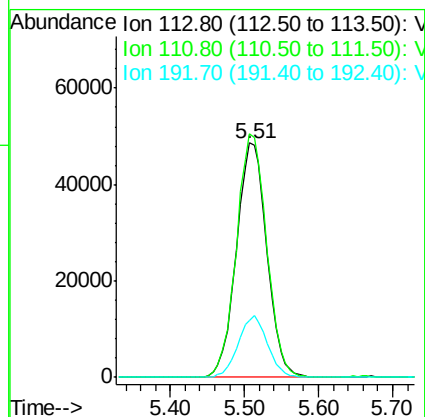
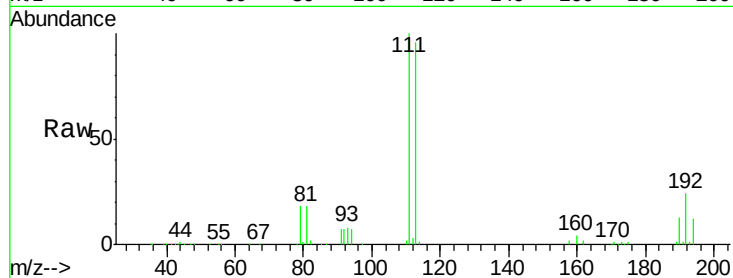




#35
 Dibromofluoromethane
 Concen: 48.21 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003177.D
 Acq: 05 Jul 2018 17:26

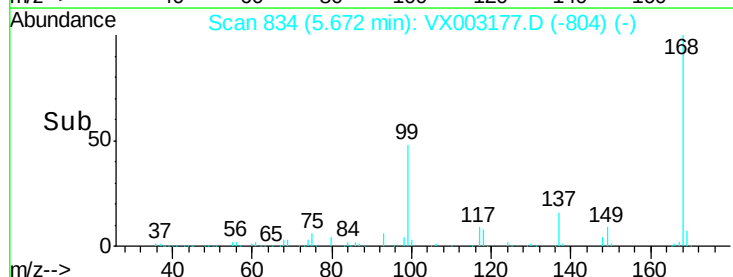
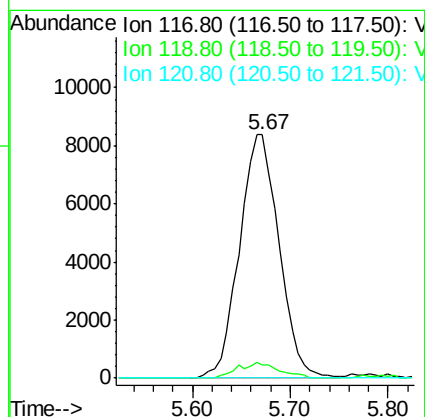
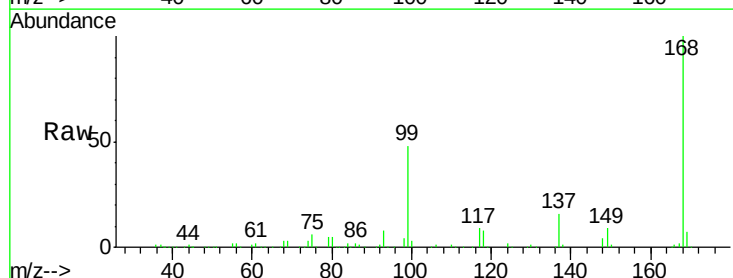
Instrument :
 MSVOA_X
 ClientSampleId :

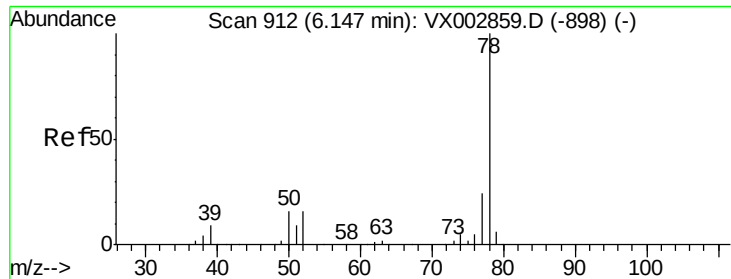
Tot Ion:113 Resp: 139644
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.4 122.0
 192 25.3 19.1 28.7



#38
 Carbon Tetrachloride
 Concen: 5.34 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX003177.D
 Acq: 05 Jul 2018 17:26

Tgt Ion:117 Resp: 23523
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.4 116.0#
 121 0.0 24.4 36.6#





#40

Benzene

Concen: 3.26 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

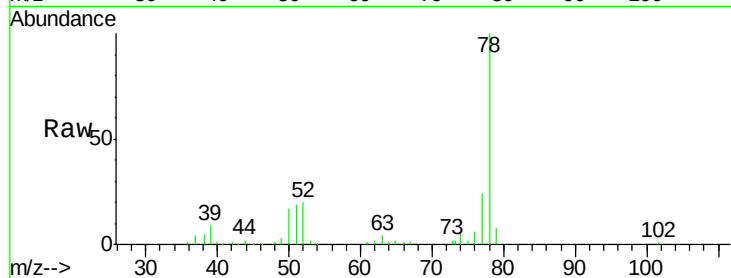
ClientSampleId :

Tot Ion: 78 Resp: 37959

Ion Ratio Lower Upper

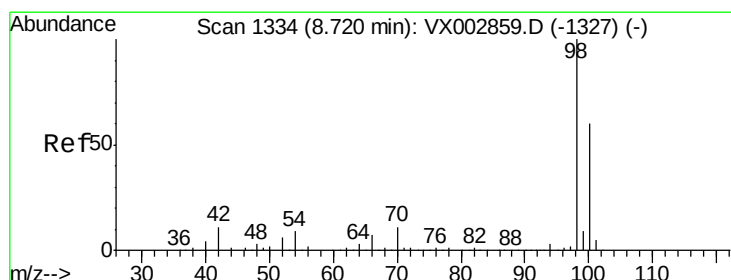
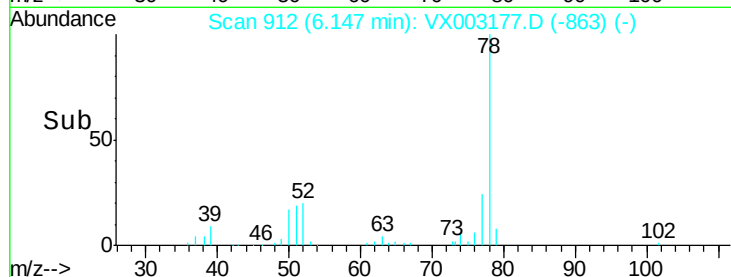
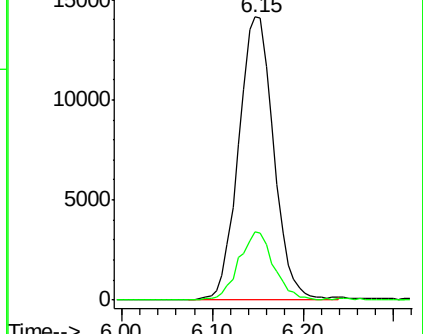
78 100

77 24.2 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 47.68 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003177.D

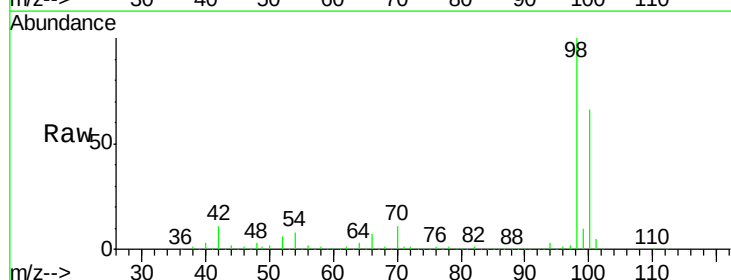
Acq: 05 Jul 2018 17:26

Tgt Ion: 98 Resp: 504357

Ion Ratio Lower Upper

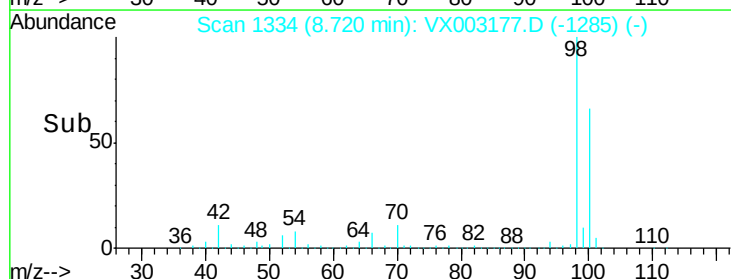
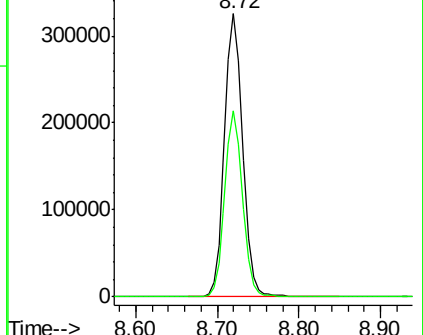
98 100

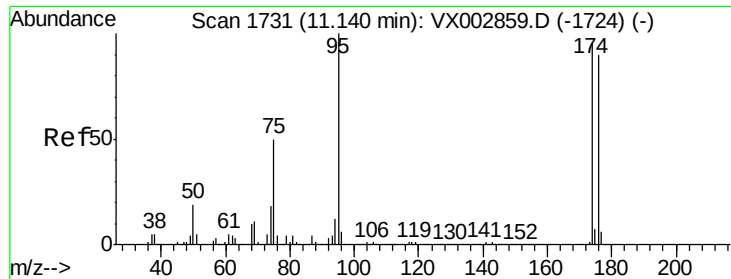
100 64.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

ClientSampleId :

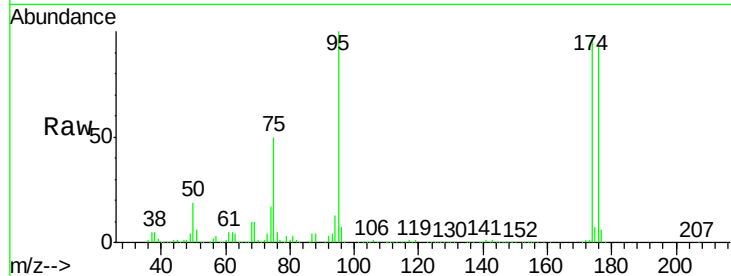
Tot Ion: 95 Resp: 178537

Ion Ratio Lower Upper

95 100

174 100.1 0.0 187.4

176 95.9 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

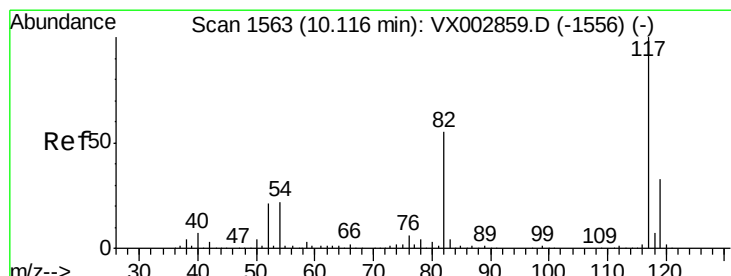
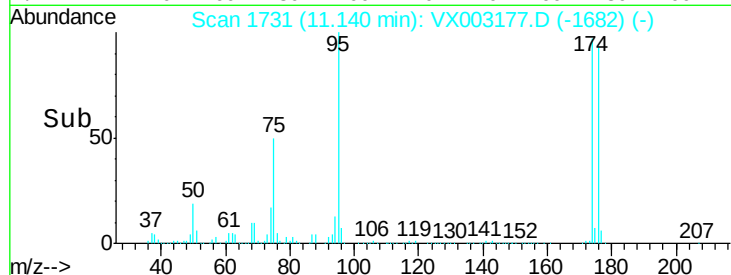
150000

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: VX003177.D

Acq: 05 Jul 2018 17:26

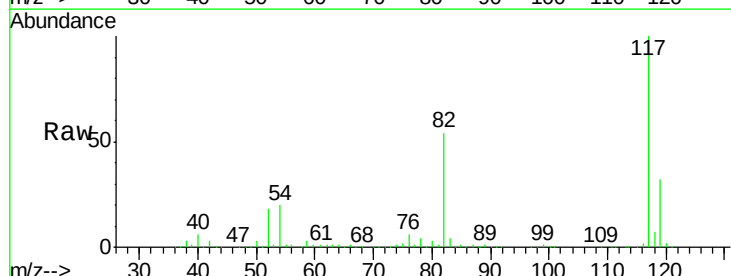
Tgt Ion: 117 Resp: 348785

Ion Ratio Lower Upper

117 100

82 53.9 45.0 67.4

119 32.3 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

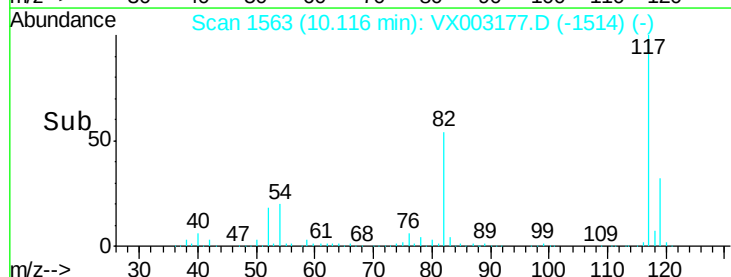
300000

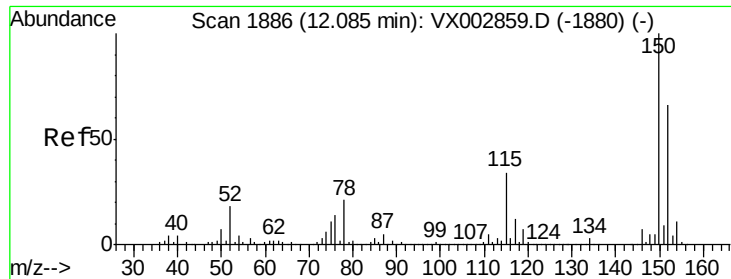
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

ClientSampleId :

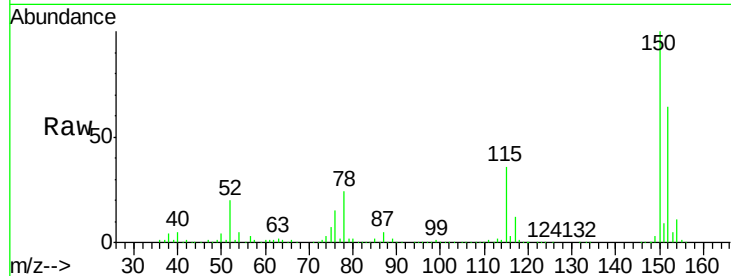
Tot Ion:152 Resp: 187293

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

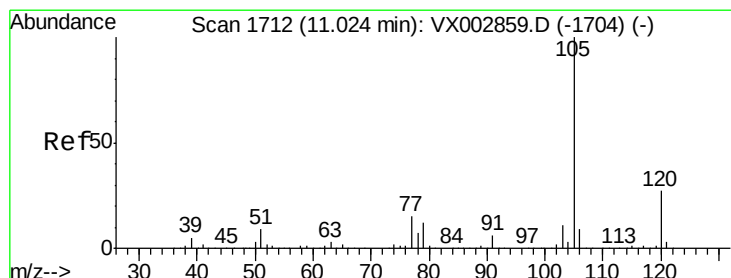
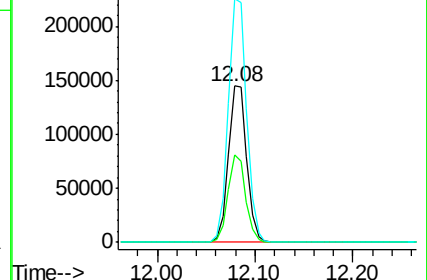
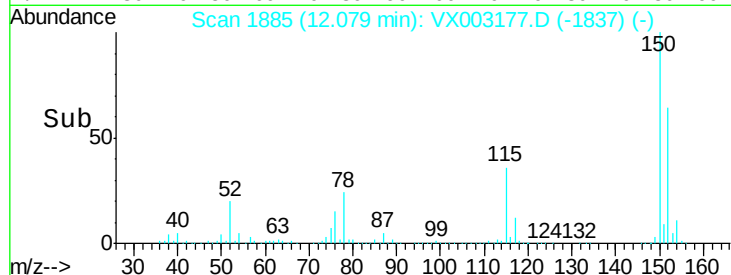
150 156.4 0.0 347.2



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



#73

Isopropylbenzene

Concen: 0.47 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX003177.D

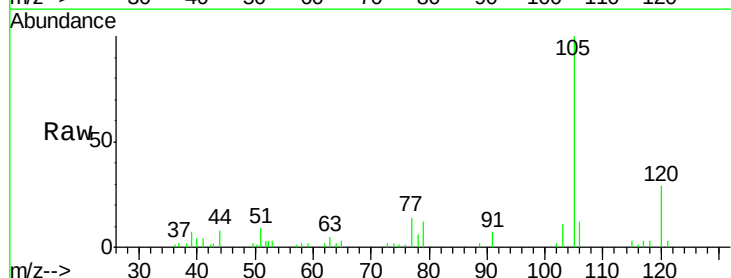
Acq: 05 Jul 2018 17:26

Tgt Ion:105 Resp: 5972

Ion Ratio Lower Upper

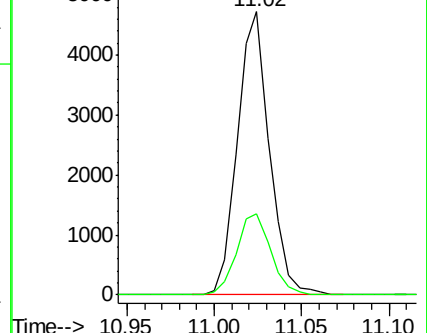
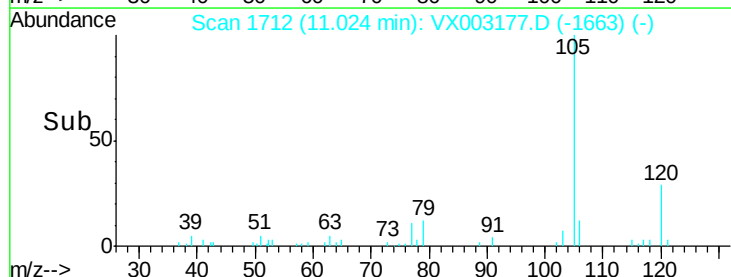
105 100

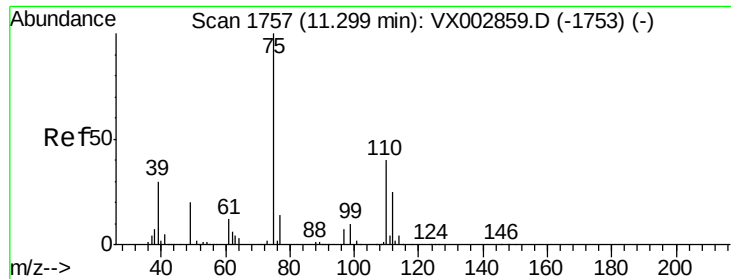
120 30.8 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 26.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

Instrument :

MSVOA_X

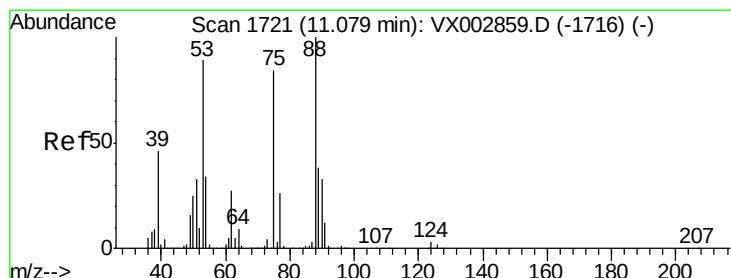
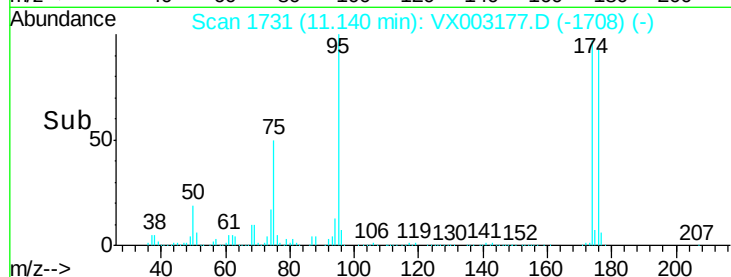
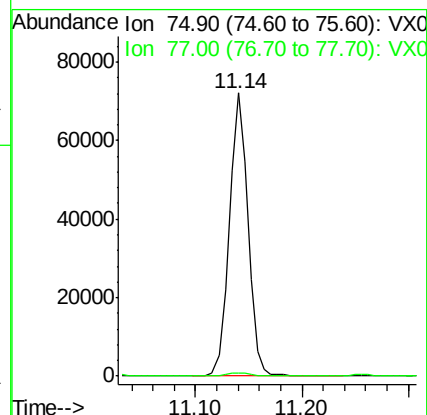
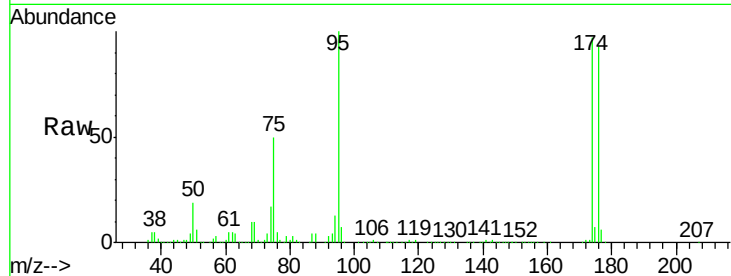
ClientSampleId :

Tot Ion: 75 Resp: 88493

Ion Ratio Lower Upper

75 100

77 1.5 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003177.D

Acq: 05 Jul 2018 17:26

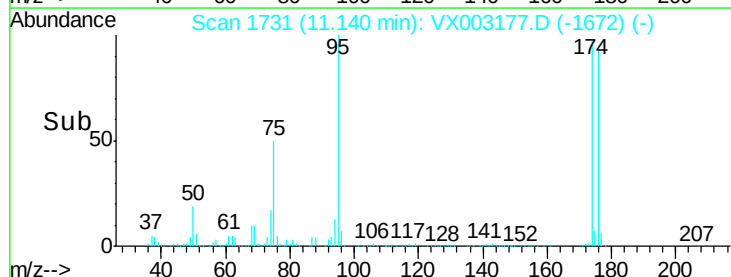
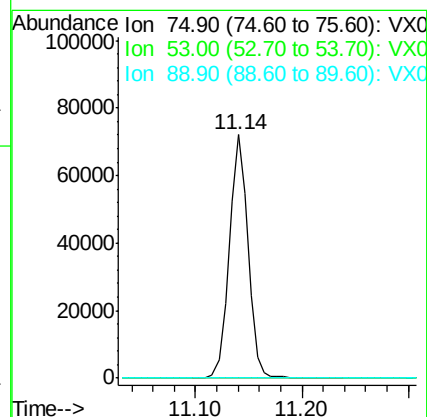
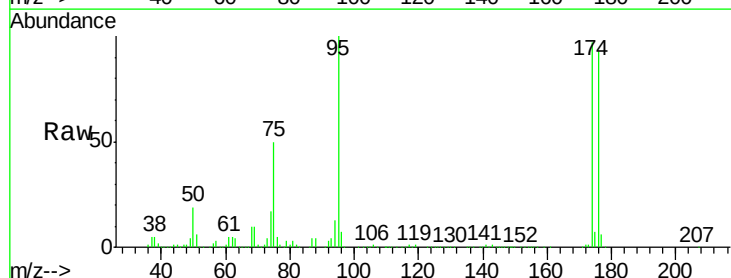
Tgt Ion: 75 Resp: 88493

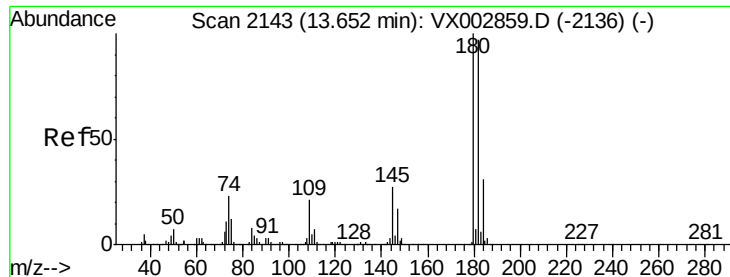
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

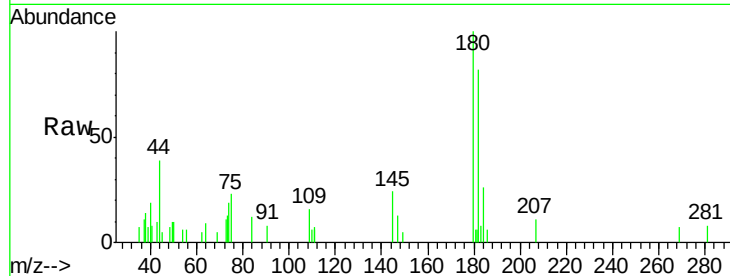




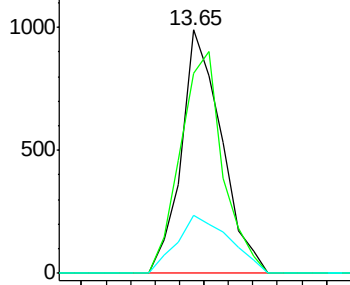
#93
 1,2,4-Trichlorobenzene
 Concen: 0.23 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. -0.01 min
 Lab File: VX003177.D
 Acq: 05 Jul 2018 17:26

Instrument :
 MSVOA_X
 ClientSampled :

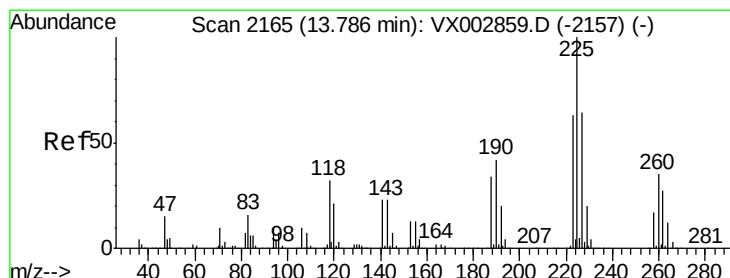
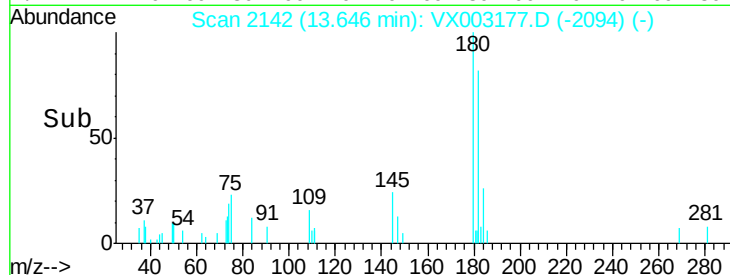
Tot Ion:180 Resp: 1129
 Ion Ratio Lower Upper
 180 100
 182 95.8 47.7 143.1
 145 31.1 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

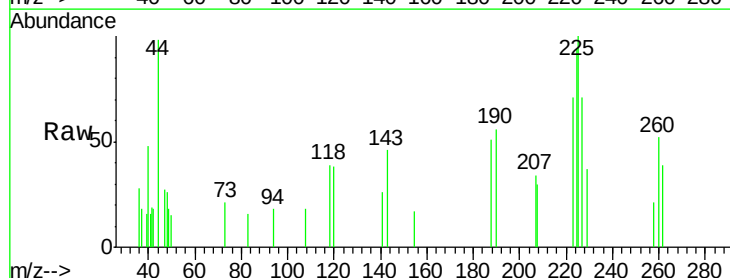


Time--> 13.60 13.65 13.70

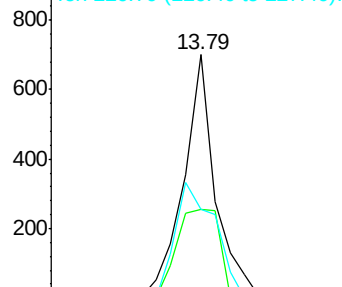


#94
 Hexachlorobutadiene
 Concen: 0.26 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VX003177.D
 Acq: 05 Jul 2018 17:26

Tgt Ion:225 Resp: 636
 Ion Ratio Lower Upper
 225 100
 223 48.6 31.6 95.0
 227 58.8 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V



Time--> 13.75 13.80

