

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002887.D
 Acq On : 26 Jun 2018 03:52
 Operator : JC/MD
 Sample : J3693-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-26

Quant Time: Jun 27 05:30:50 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	251030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	354339	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	330948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	193904	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	169842	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
35) Dibromofluoromethane	5.51	113	137984	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
50) Toluene-d8	8.72	98	495714	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
62) 4-Bromofluorobenzene	11.14	95	180867	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	

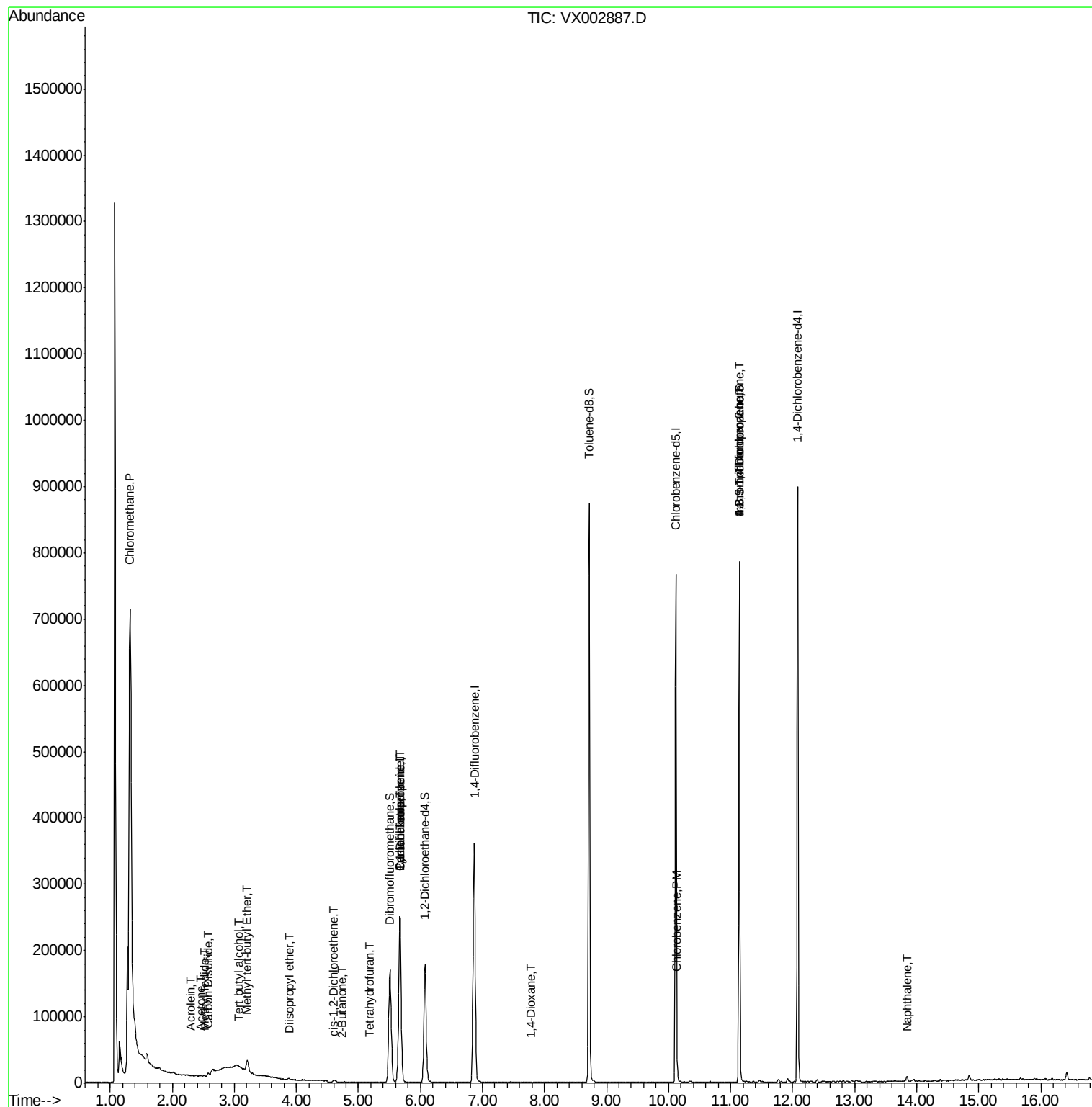
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.13	85	22	Below Cal	#	43
3) Chloromethane	1.32	50	33521	13.53	ug/l	45
5) Bromomethane	1.67	94	1454	Below Cal	#	75
10) Methyl Iodide	2.52	142	2540	7.02	ug/l	93
11) Tert butyl alcohol	3.07	59	1102	1.59	ug/l	78
13) Acrolein	2.30	56	177	4.68	ug/l	92
16) Acetone	2.45	43	1335	0.93	ug/l	86
17) Carbon Disulfide	2.57	76	9303	1.41	ug/l	92
19) Methyl tert-butyl Ether	3.21	73	19537	2.20	ug/l	92
22) Diisopropyl ether	3.88	45	2284	0.24	ug/l	84
25) 2-Butanone	4.72	43	589	0.28	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	688	0.23	ug/l	1
29) Tetrahydrofuran	5.18	42	842	0.62	ug/l	68
31) Cyclohexane	5.67	56	4831	1.11	ug/l	1
36) 1,1-Dichloropropene	5.67	75	16667	4.29	ug/l	51
38) Carbon Tetrachloride	5.67	117	23530	5.52	ug/l	16
49) 1,4-Dioxane	7.78	88	222	3.16	ug/l	22
65) Chlorobenzene	10.14	112	4895	0.58	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	95965	27.32	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95965	77.31	ug/l	7
95) Naphthalene	13.83	128	4224	0.32	ug/l	92

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

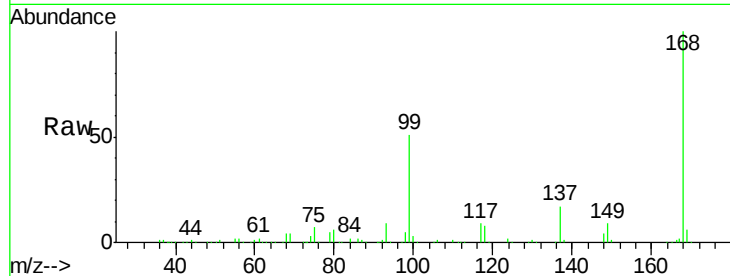
W-26

Tot Ion:168 Resp: 251030

Ion Ratio Lower Upper

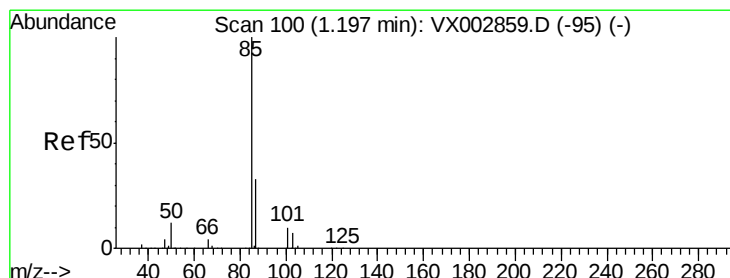
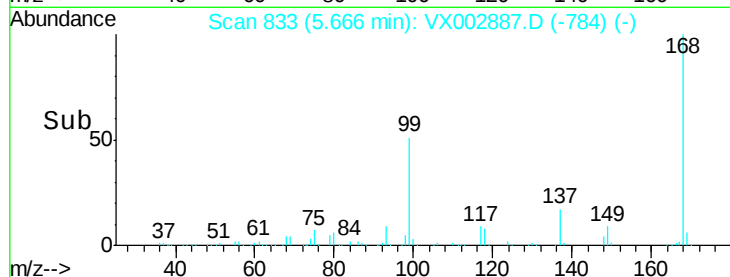
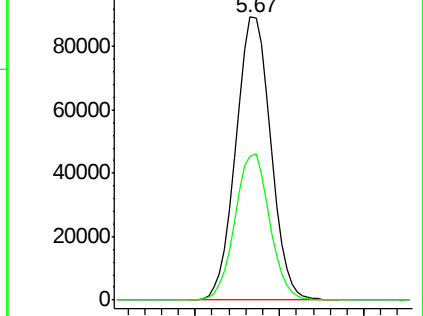
168 100

99 50.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.13 min Scan# 89

Delta R.T. -0.07 min

Lab File: VX002887.D

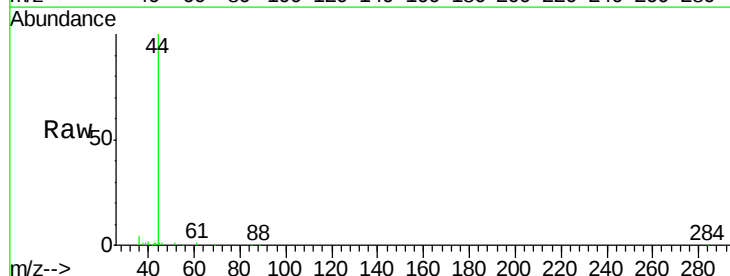
Acq: 26 Jun 2018 03:52

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

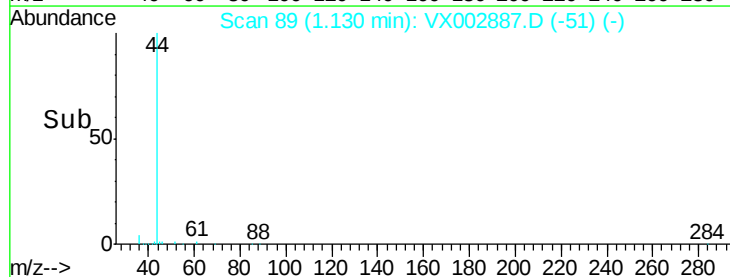
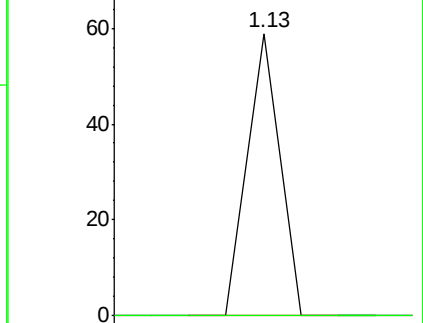
85 100

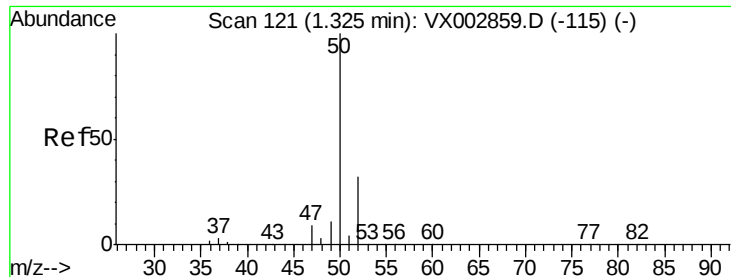
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 13.53 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampled :

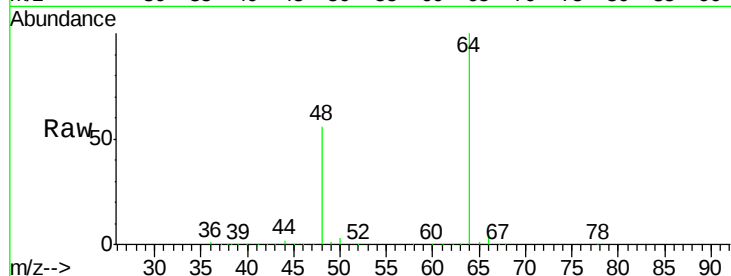
W-26

Tot Ion: 50 Resp: 33521

Ion Ratio Lower Upper

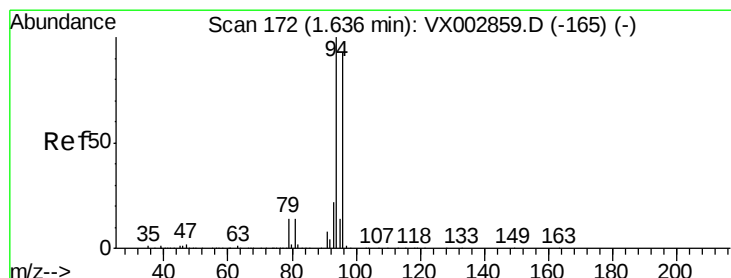
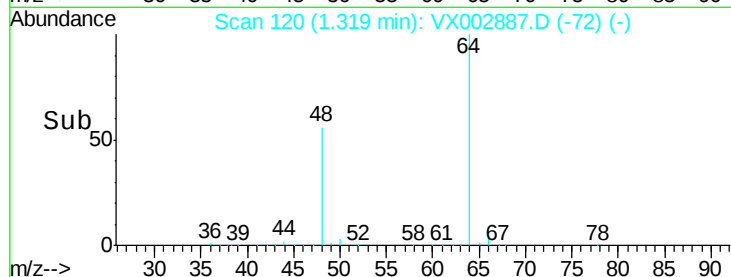
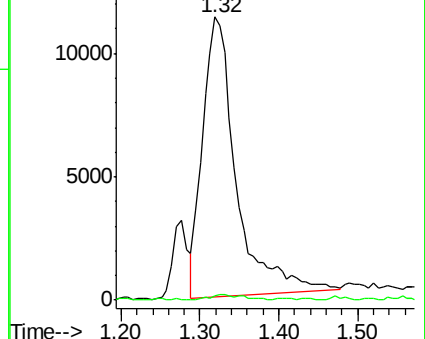
50 100

52 1.5 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: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002887.D

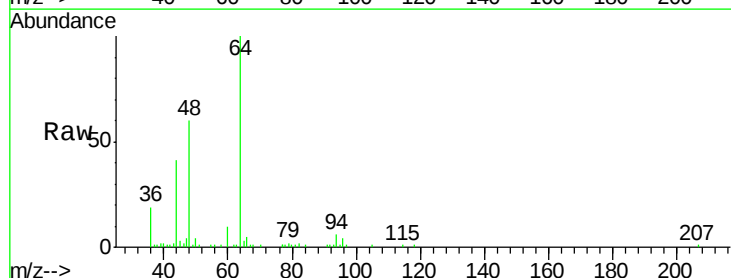
Acq: 26 Jun 2018 03:52

Tgt Ion: 94 Resp: 1454

Ion Ratio Lower Upper

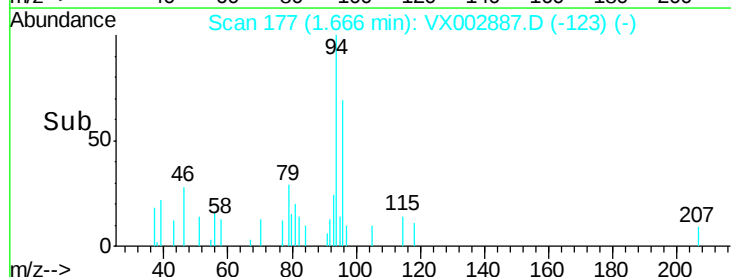
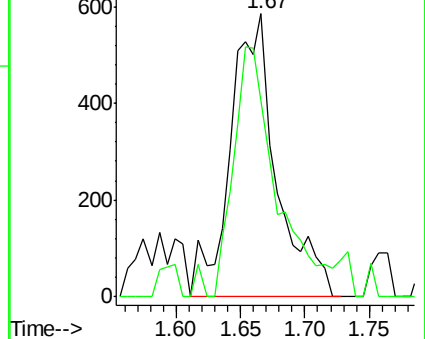
94 100

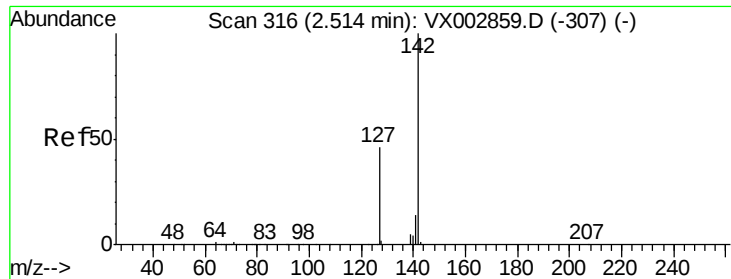
96 69.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

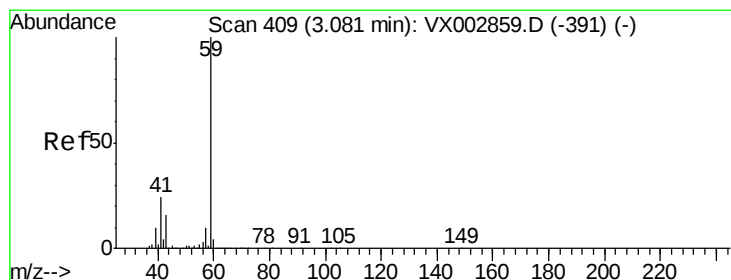
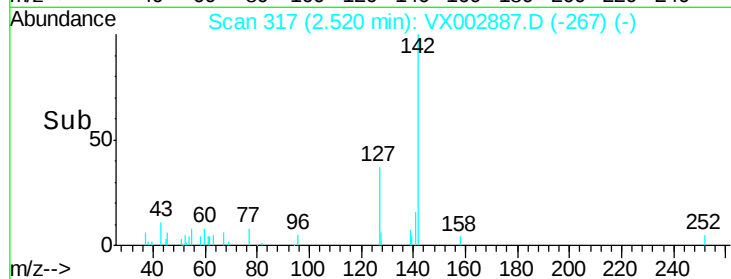
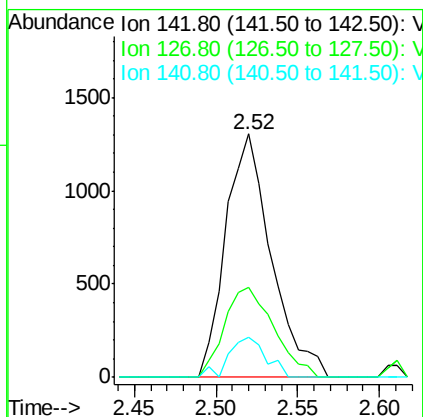
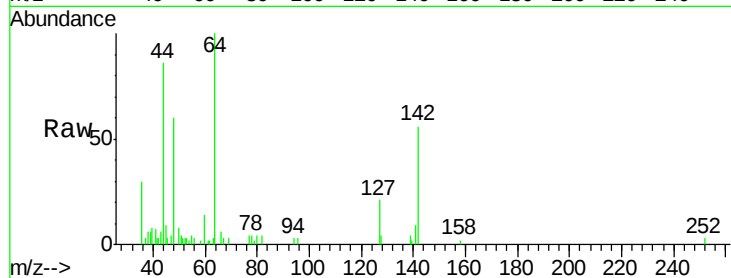




#10
Methyl Iodide
Concen: 7.02 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002887.D
Acq: 26 Jun 2018 03:52

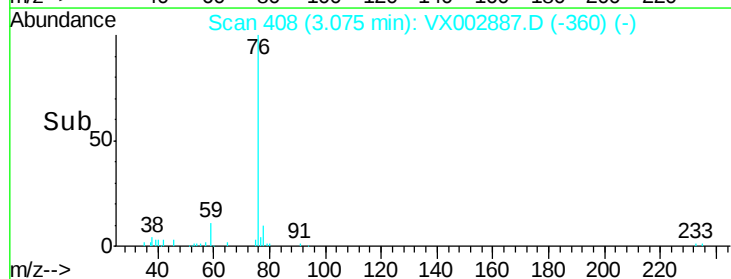
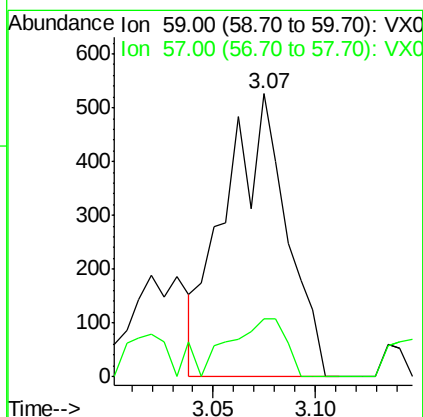
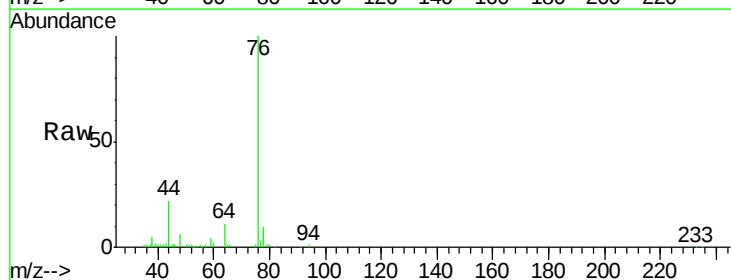
Instrument :
MSVOA_X
ClientSampleId :
W-26

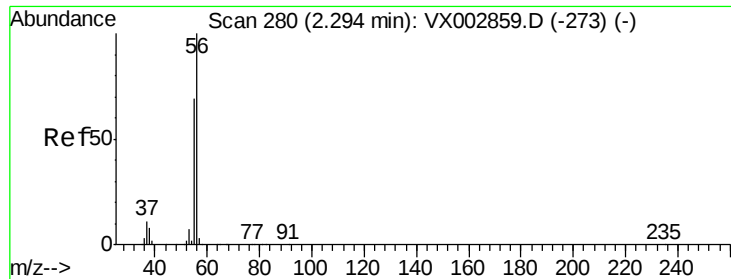
Tot Ion:142 Resp: 2540
Ion Ratio Lower Upper
142 100
127 40.1 36.6 55.0
141 13.2 11.3 16.9



#11
Tert butyl alcohol
Concen: 1.59 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002887.D
Acq: 26 Jun 2018 03:52

Tgt Ion: 59 Resp: 1102
Ion Ratio Lower Upper
59 100
57 18.5 8.2 12.2#





#13

Acrolein

Concen: 4.68 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampled :

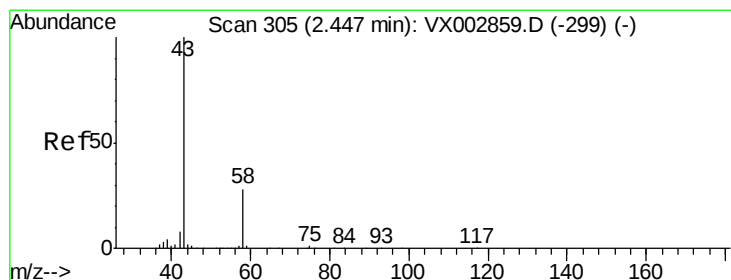
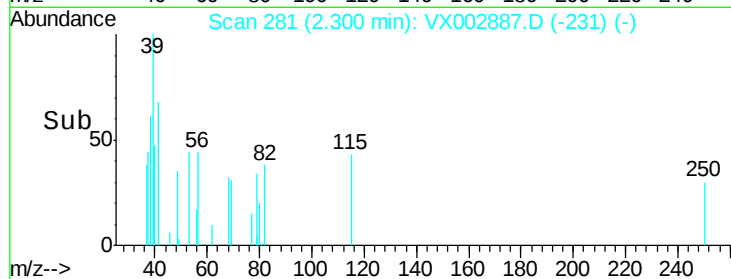
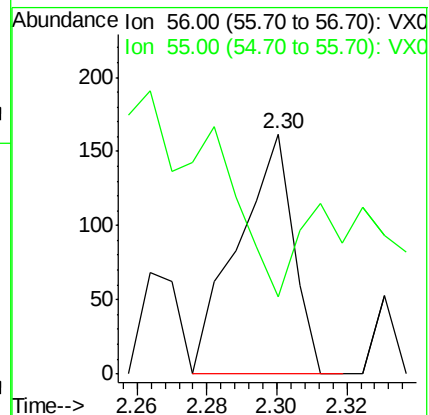
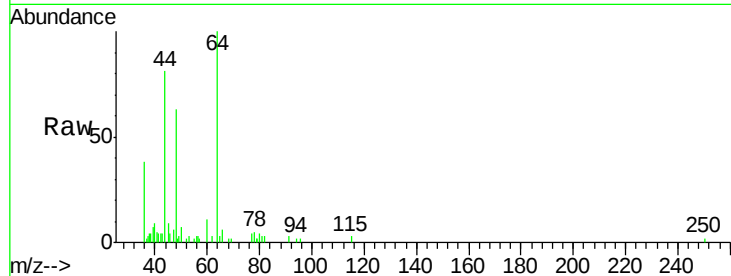
W-26

Tot Ion: 56 Resp: 177

Ion Ratio Lower Upper

56 100

55 64.4 57.0 85.4



#16

Acetone

Concen: 0.93 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX002887.D

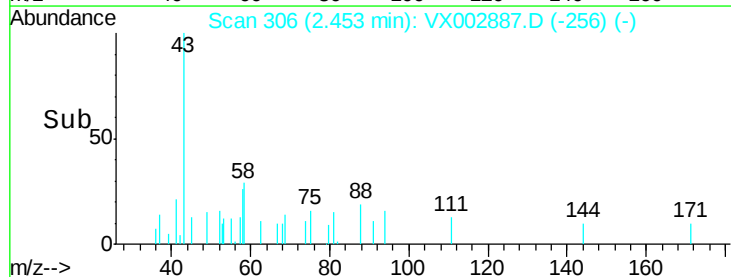
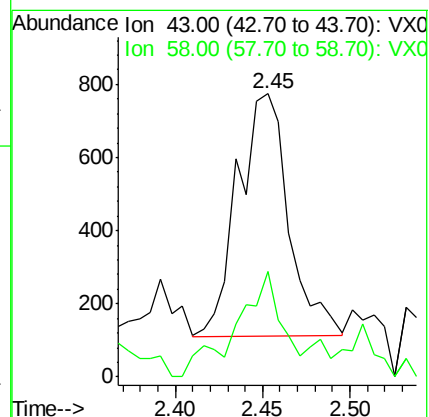
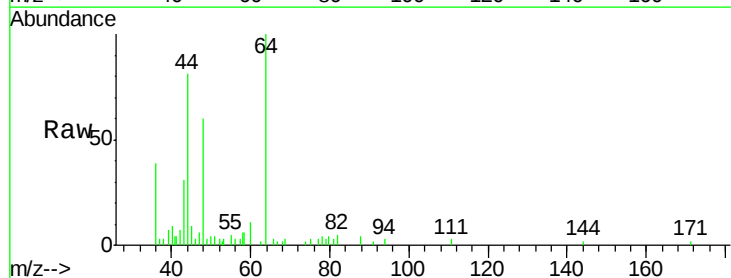
Acq: 26 Jun 2018 03:52

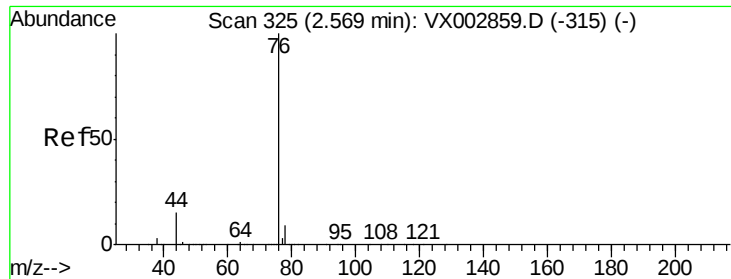
Tgt Ion: 43 Resp: 1335

Ion Ratio Lower Upper

43 100

58 34.7 22.1 33.1#

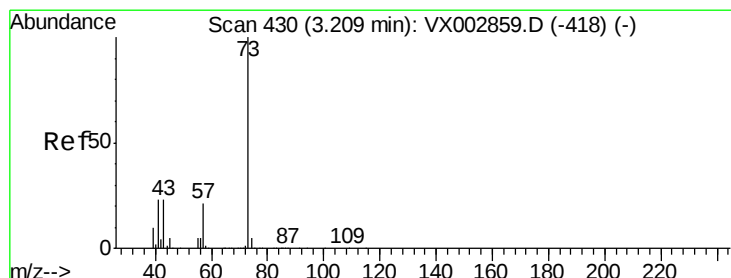
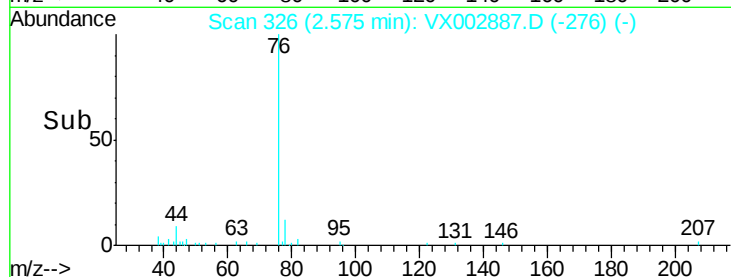
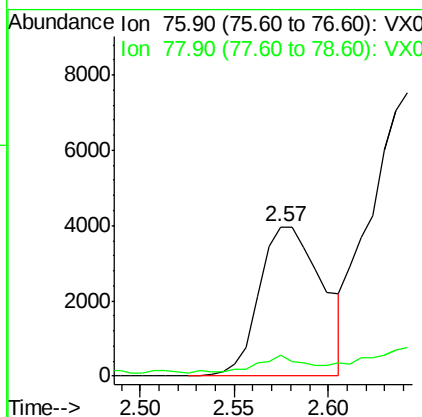
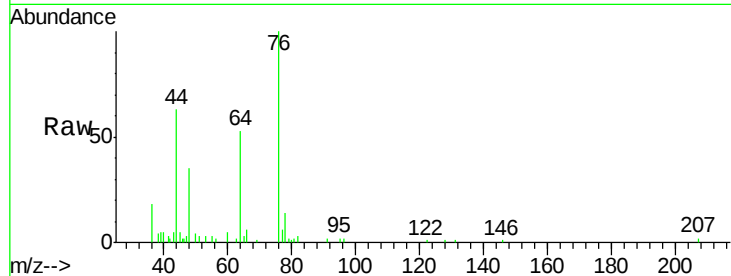




#17
Carbon Disulfide
Concen: 1.41 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002887.D
Acq: 26 Jun 2018 03:52

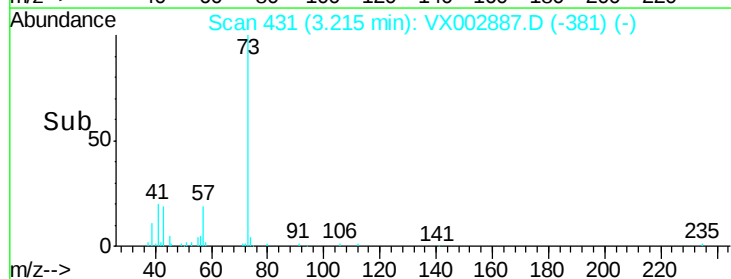
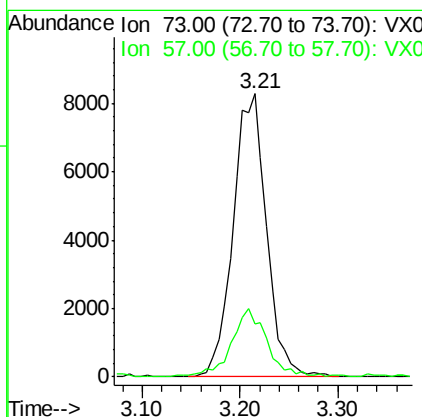
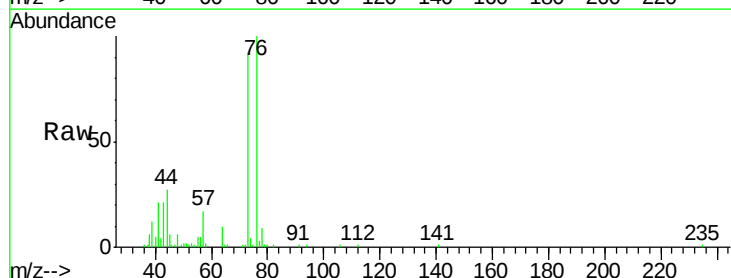
Instrument :
MSVOA_X
ClientSampled :
W-26

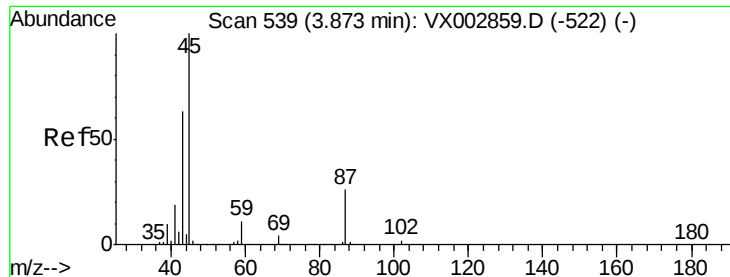
Tot Ion: 76 Resp: 9303
Ion Ratio Lower Upper
76 100
78 11.6 6.9 10.3#



#19
Methyl tert-butyl Ether
Concen: 2.20 ug/l
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002887.D
Acq: 26 Jun 2018 03:52

Tgt Ion: 73 Resp: 19537
Ion Ratio Lower Upper
73 100
57 18.2 17.7 26.5





#22

Diisopropyl ether

Concen: 0.24 ug/l

RT: 3.88 min Scan# 540

Delta R.T. 0.01 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampled :

W-26

Tot Ion: 45 Resp: 2284

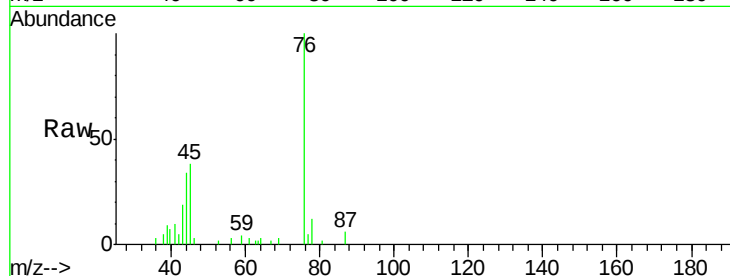
Ion Ratio Lower Upper

45 100

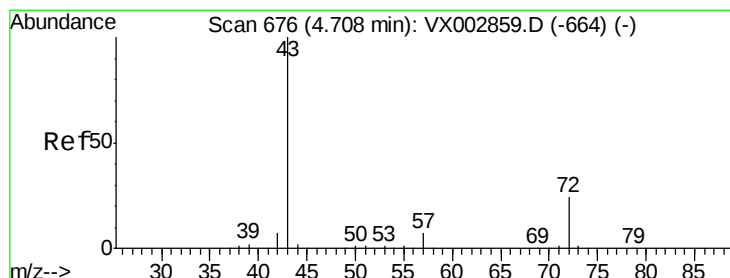
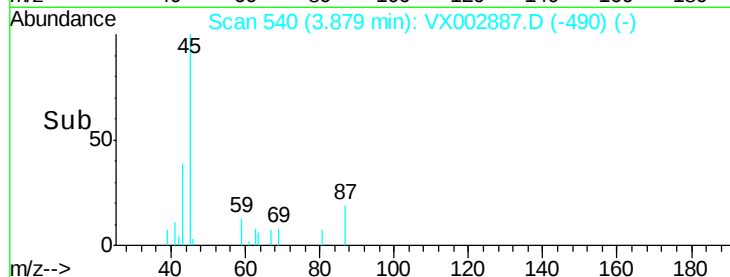
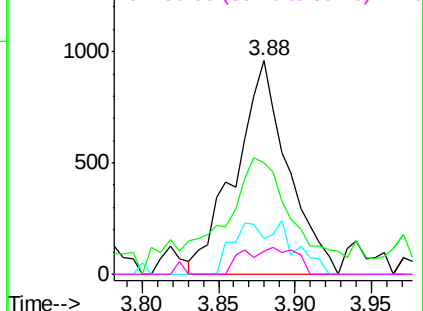
43 44.0 46.8 70.2#

87 17.7 20.2 30.4#

59 11.6 8.7 13.1



Abundance Ion 45.00 (44.70 to 45.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 87.00 (86.70 to 87.70): VX0
Ion 59.00 (58.70 to 59.70): VX0



#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002887.D

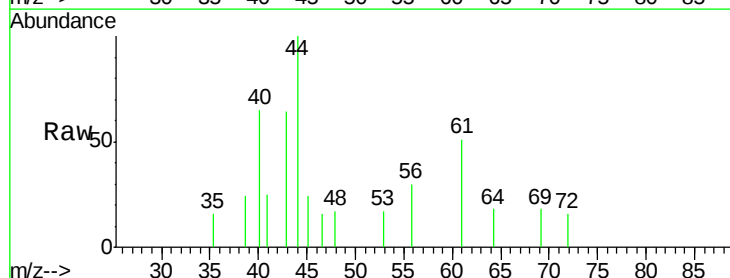
Acq: 26 Jun 2018 03:52

Tgt Ion: 43 Resp: 589

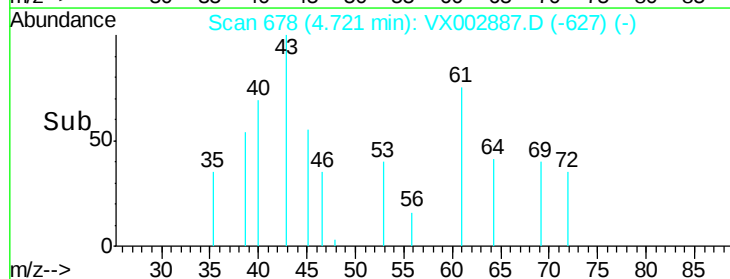
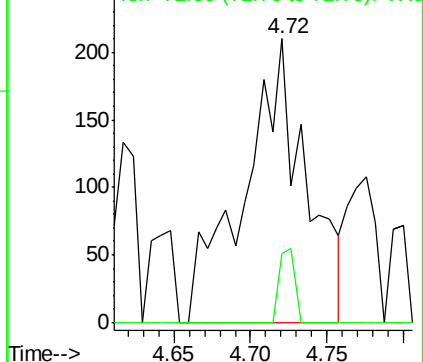
Ion Ratio Lower Upper

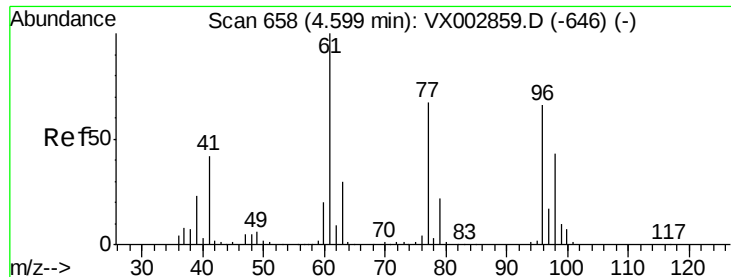
43 100

72 24.3 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.23 ug/l

RT: 4.59 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

W-26

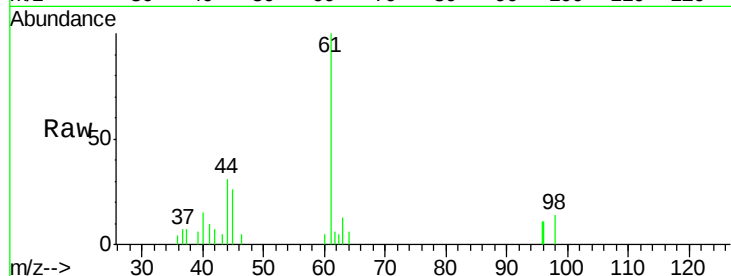
Tot Ion: 96 Resp: 688

Ion Ratio Lower Upper

96 100

61 1041.0 0.0 330.2#

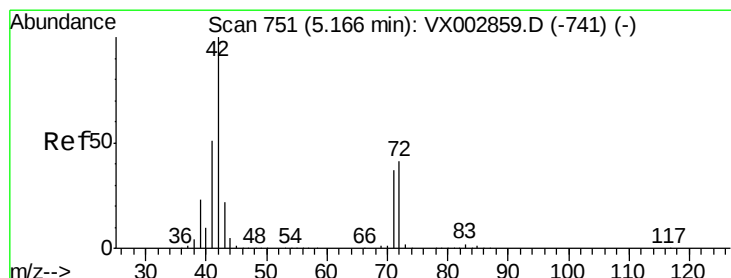
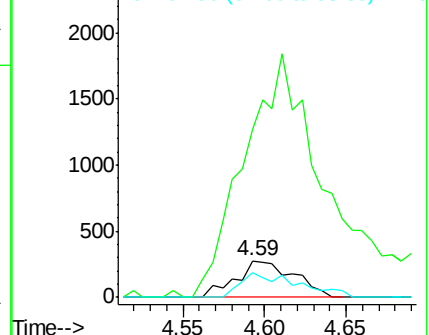
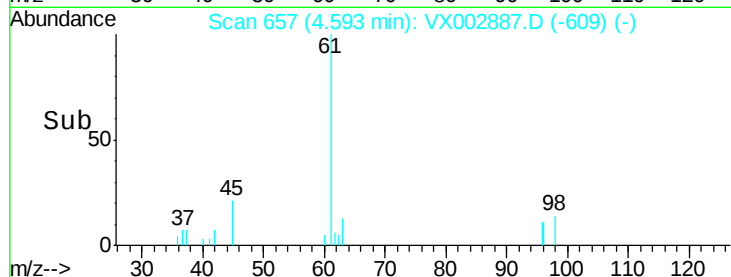
98 66.6 0.0 130.2



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



#29

Tetrahydrofuran

Concen: 0.62 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

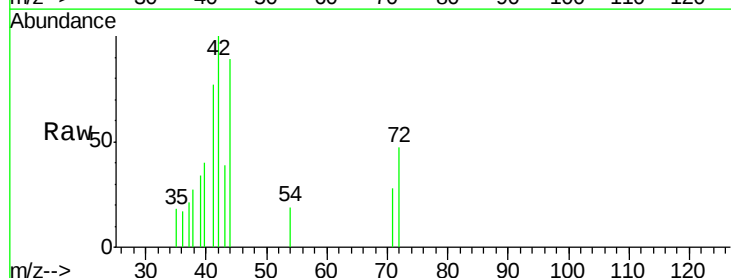
Tgt Ion: 42 Resp: 842

Ion Ratio Lower Upper

42 100

72 37.5 32.0 48.0

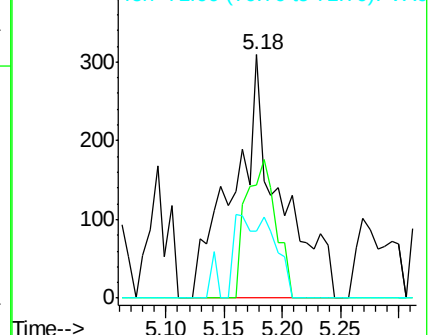
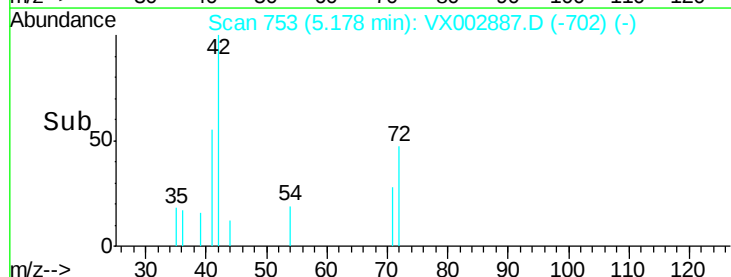
71 0.0 30.1 45.1#

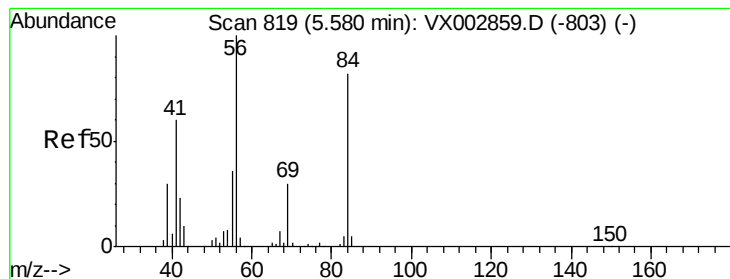


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.11 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampled :

W-26

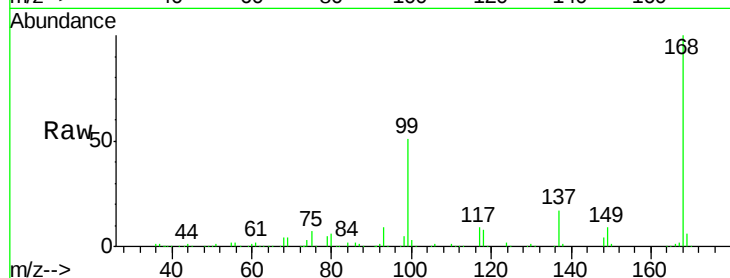
Tot Ion: 56 Resp: 4831

Ion Ratio Lower Upper

56 100

69 173.2 23.7 35.5#

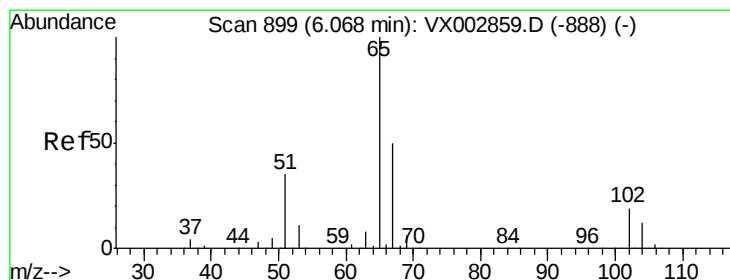
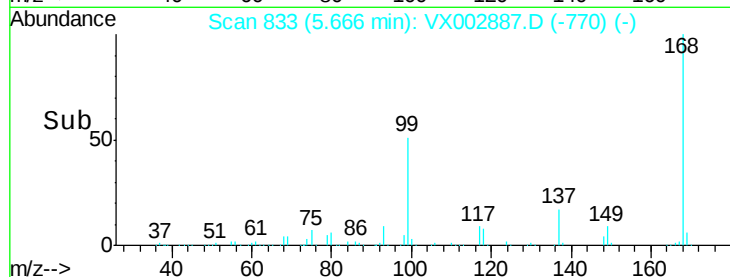
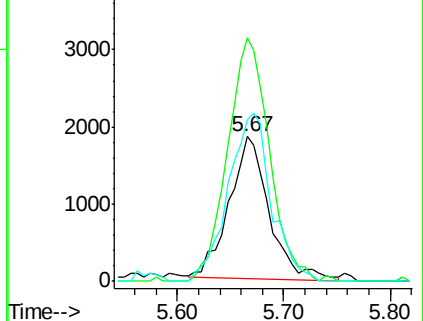
84 115.3 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.95 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002887.D

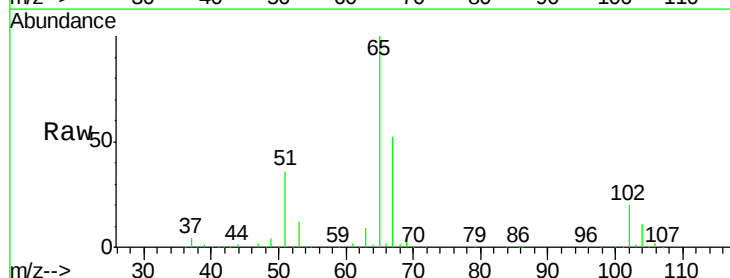
Acq: 26 Jun 2018 03:52

Tgt Ion: 65 Resp: 169842

Ion Ratio Lower Upper

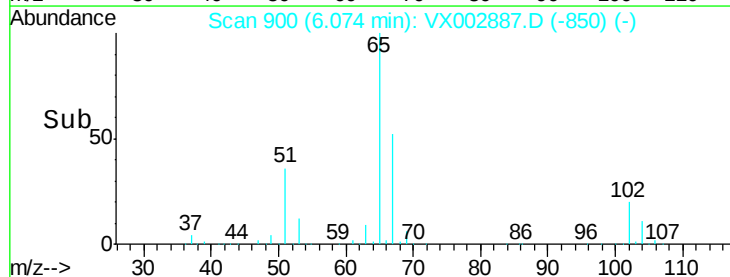
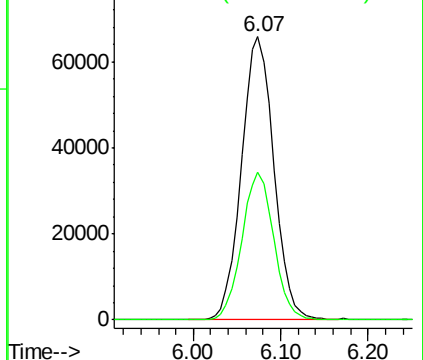
65 100

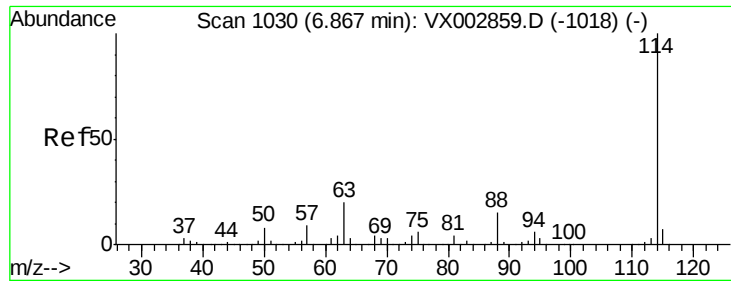
67 51.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

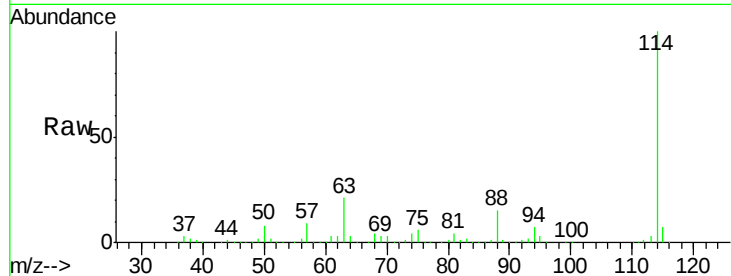




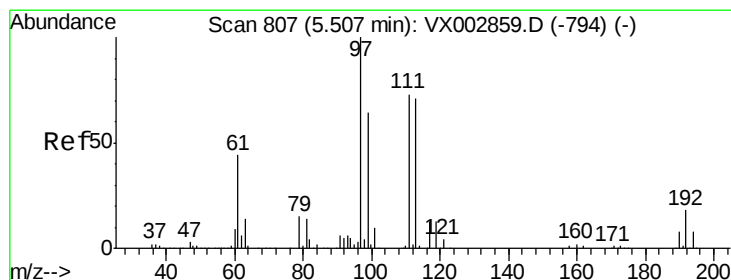
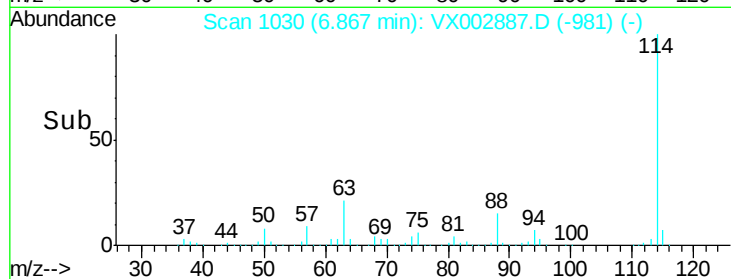
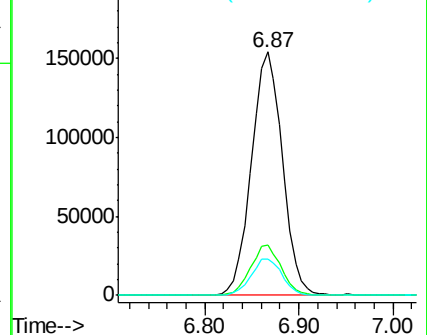
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002887.D
 Acq: 26 Jun 2018 03:52

Instrument :
 MSVOA_X
 ClientSampleId :
 W-26

Tot Ion:114 Resp: 354339
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.4
 88 14.9 0.0 30.0

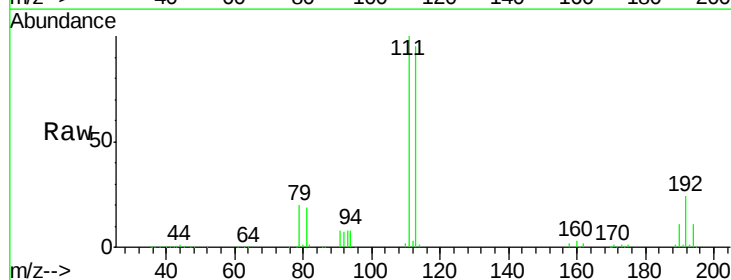


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

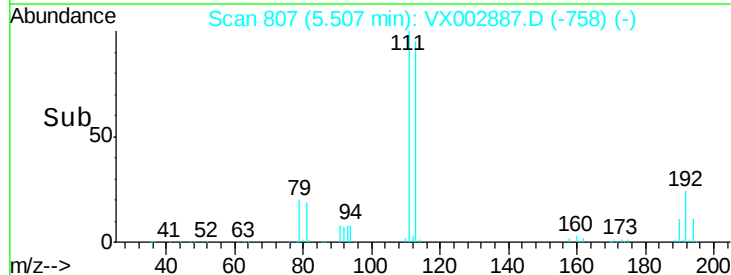
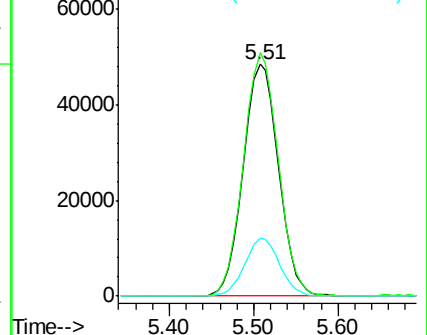


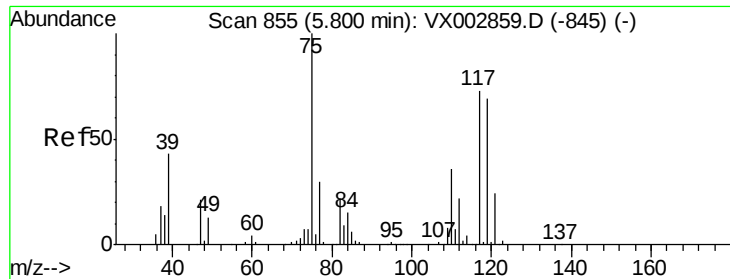
#35
 Dibromofluoromethane
 Concen: 49.17 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002887.D
 Acq: 26 Jun 2018 03:52

Tgt Ion:113 Resp: 137984
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.4 122.0
 192 24.5 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

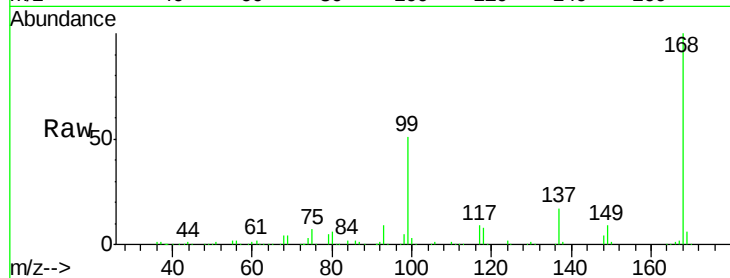




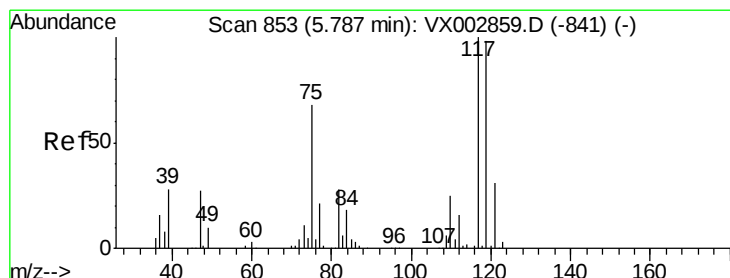
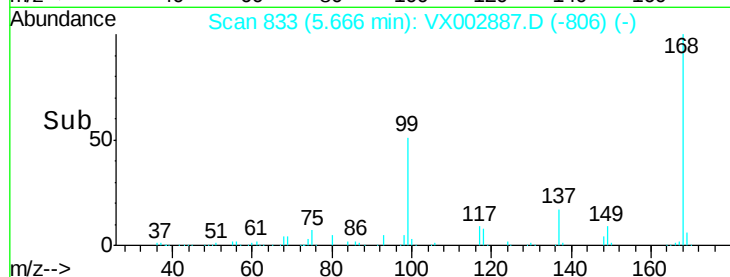
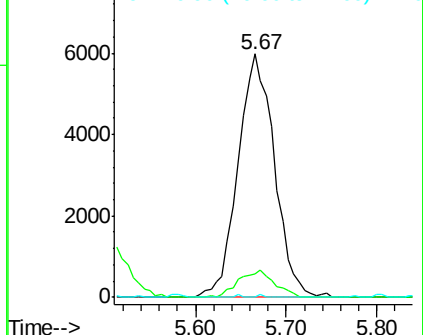
#36
 1,1-Dichloropropene
 Concen: 4.29 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002887.D
 Acq: 26 Jun 2018 03:52

Instrument :
 MSVOA_X
 ClientSampled :
 W-26

Tot Ion: 75 Resp: 16667
 Ion Ratio Lower Upper
 75 100
 110 11.0 18.1 54.4#
 77 0.1 24.3 36.5#

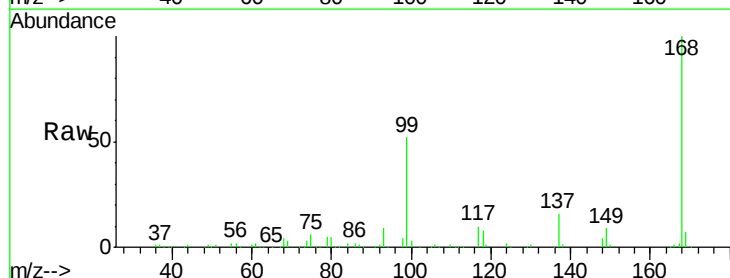


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

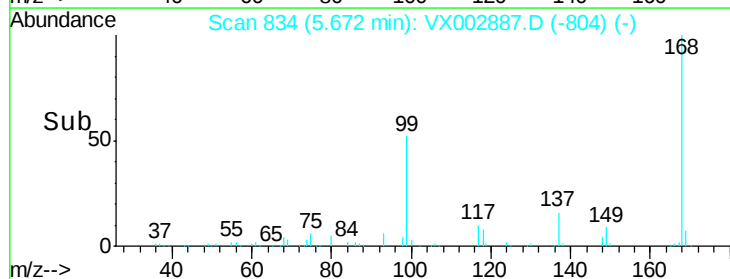
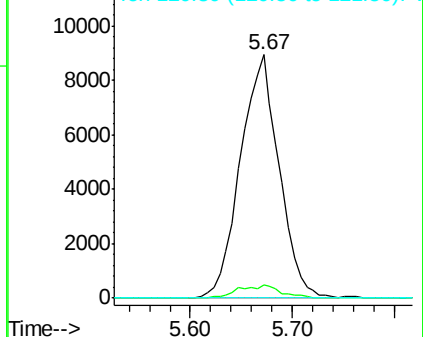


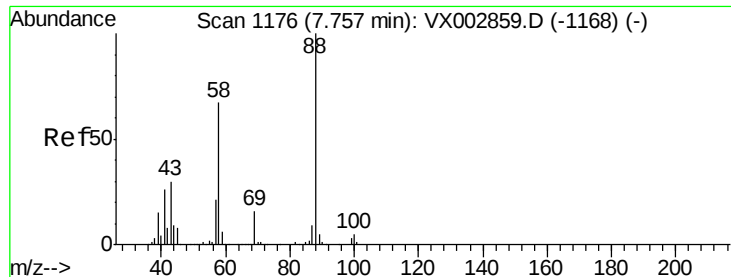
#38
 Carbon Tetrachloride
 Concen: 5.52 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002887.D
 Acq: 26 Jun 2018 03:52

Tgt Ion: 117 Resp: 23530
 Ion Ratio Lower Upper
 117 100
 119 5.3 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: 3.16 ug/l

RT: 7.78 min Scan# 1180

Delta R.T. 0.02 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

W-26

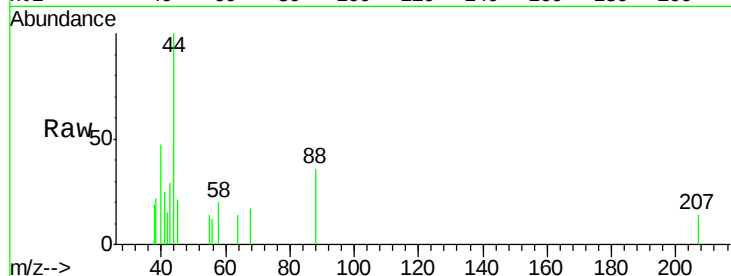
Tot Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

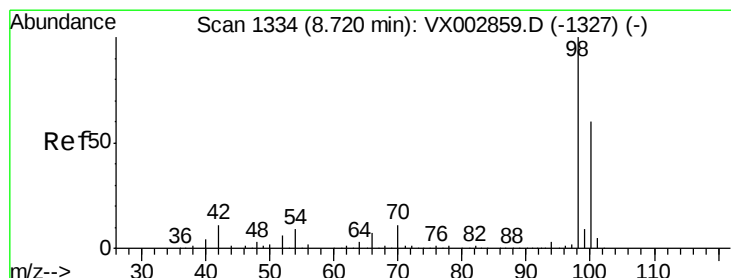
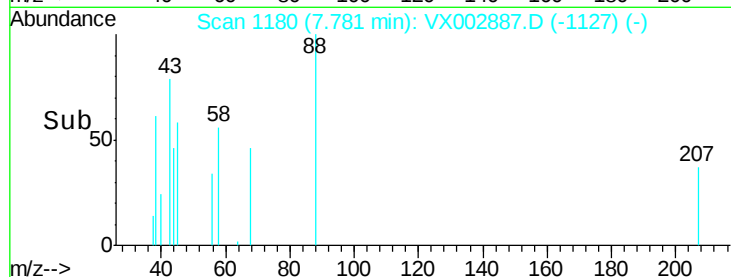
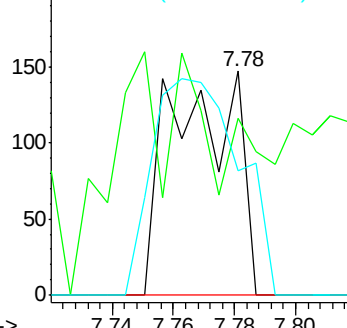
58 0.0 57.1 85.7#



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: 48.38 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002887.D

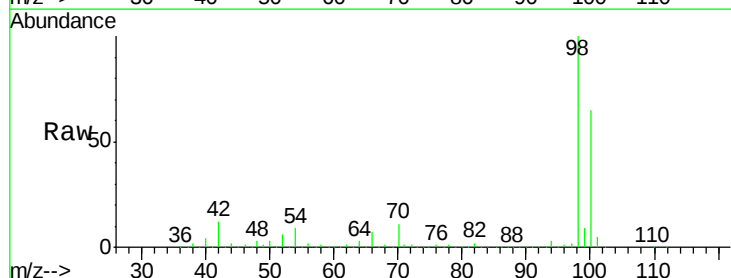
Acq: 26 Jun 2018 03:52

Tgt Ion: 98 Resp: 495714

Ion Ratio Lower Upper

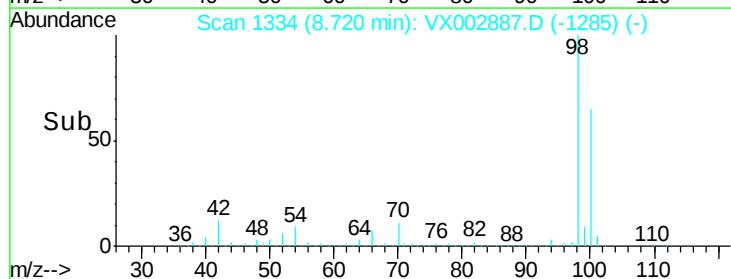
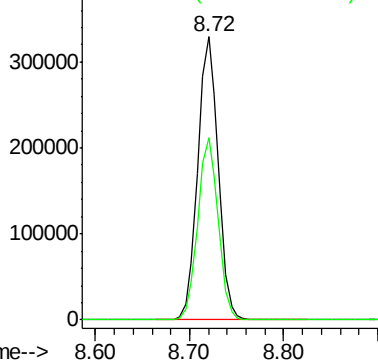
98 100

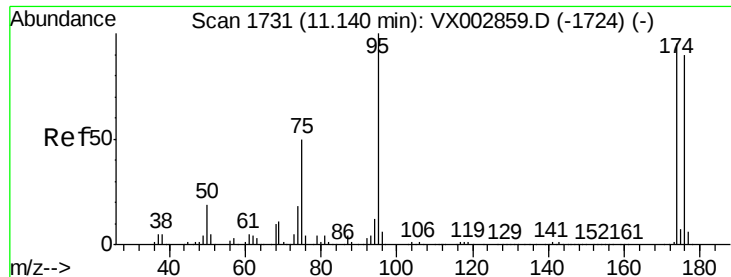
100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

W-26

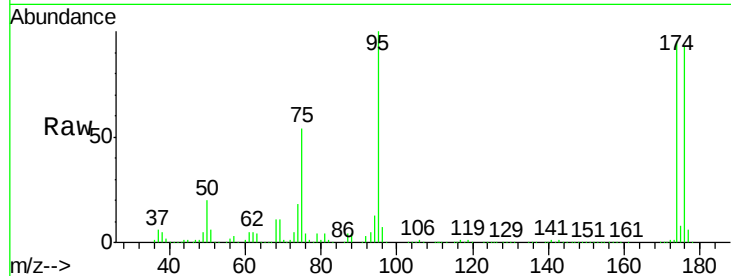
Tot Ion: 95 Resp: 180867

Ion Ratio Lower Upper

95 100

174 96.6 0.0 187.4

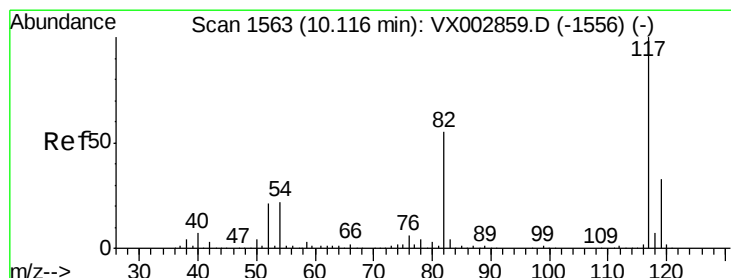
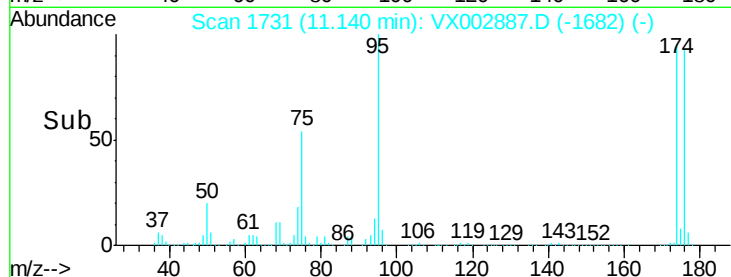
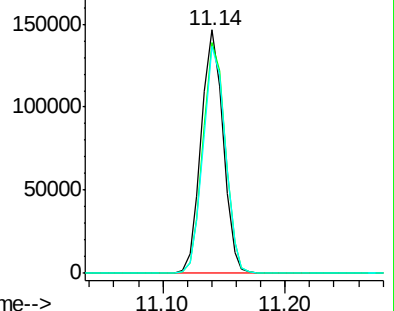
176 94.5 0.0 181.0



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) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

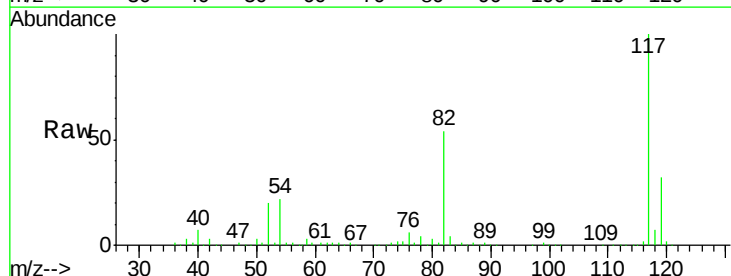
Tgt Ion: 117 Resp: 330948

Ion Ratio Lower Upper

117 100

82 54.1 45.0 67.4

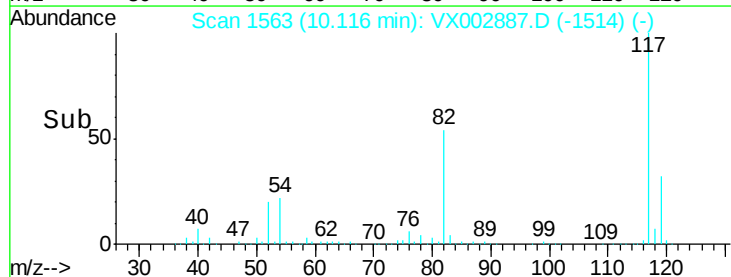
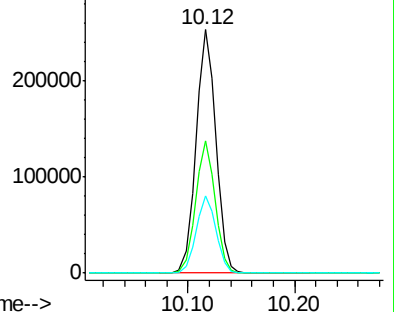
119 31.9 25.8 38.6

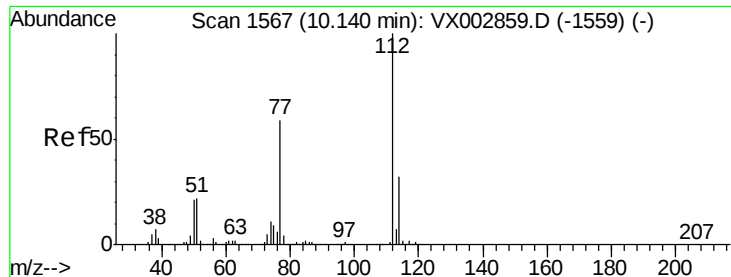


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

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

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





#65

Chlorobenzene

Concen: 0.58 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampled :

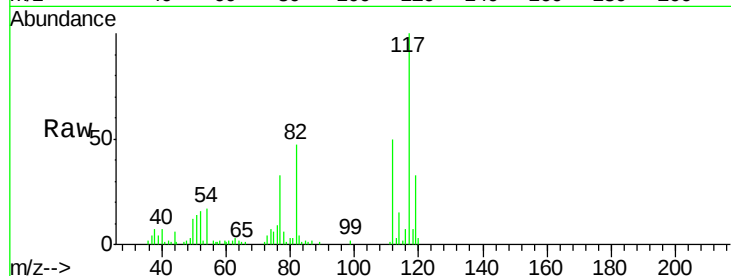
W-26

Tot Ion:112 Resp: 4895

Ion Ratio Lower Upper

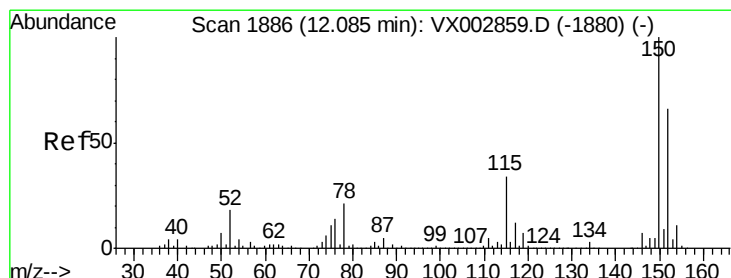
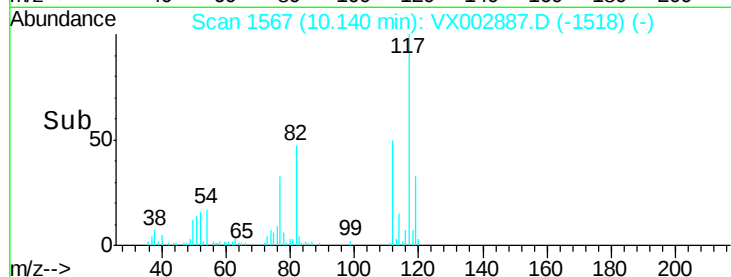
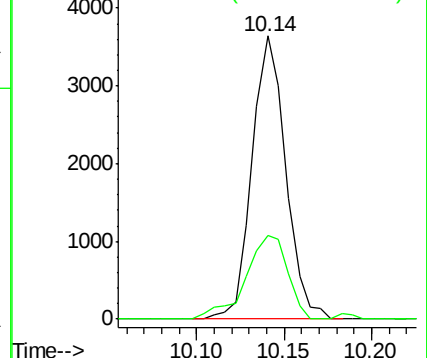
112 100

114 29.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

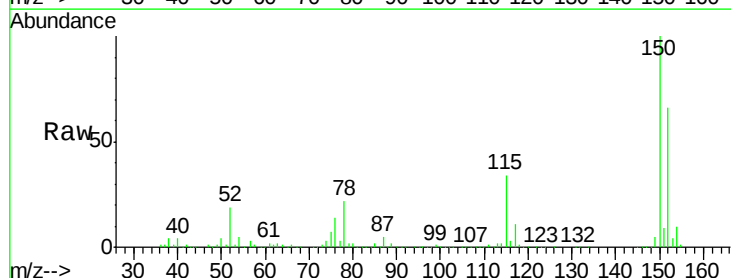
Tgt Ion:152 Resp: 193904

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

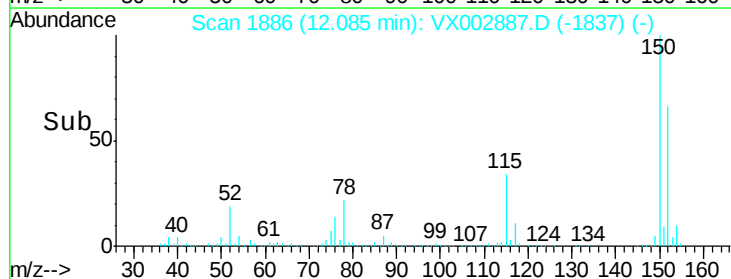
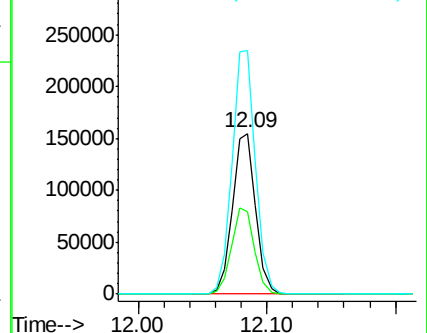
150 154.3 0.0 347.2

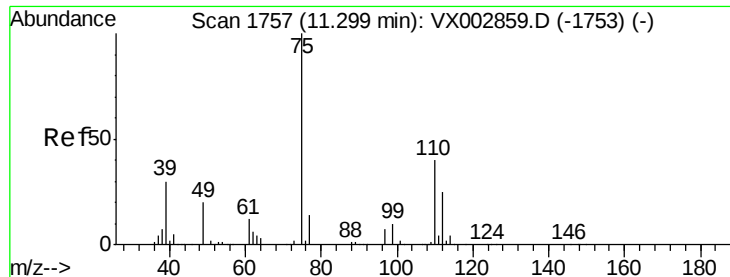


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

Instrument :

MSVOA_X

ClientSampled :

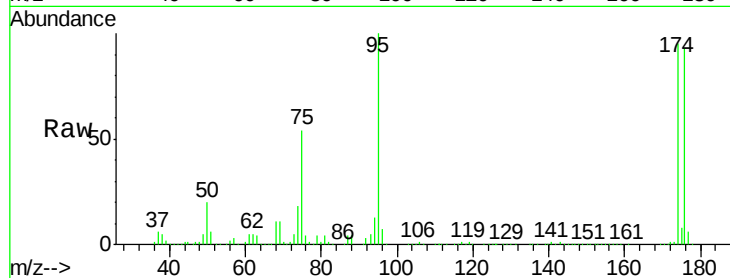
W-26

Tot Ion: 75 Resp: 95965

Ion Ratio Lower Upper

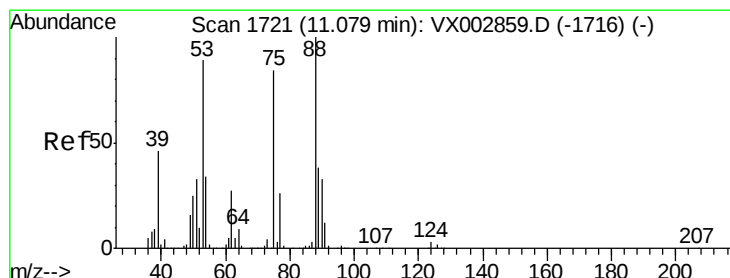
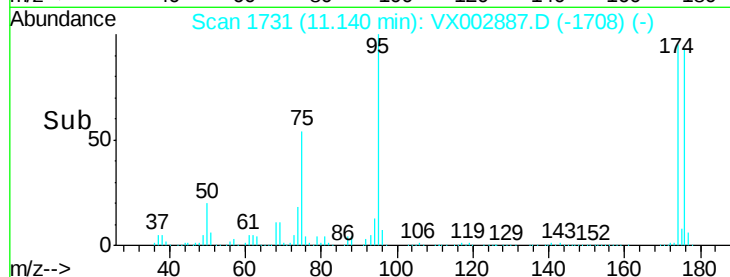
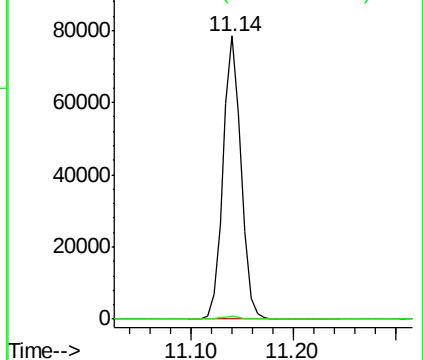
75 100

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: 77.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002887.D

Acq: 26 Jun 2018 03:52

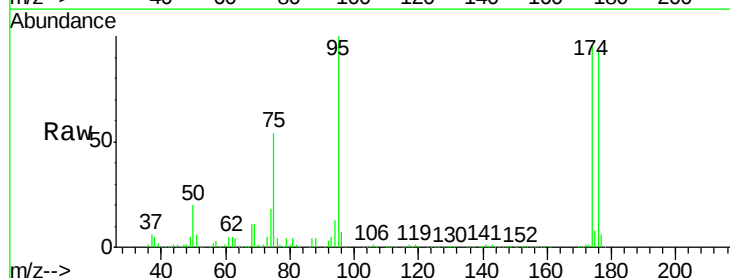
Tgt Ion: 75 Resp: 95965

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

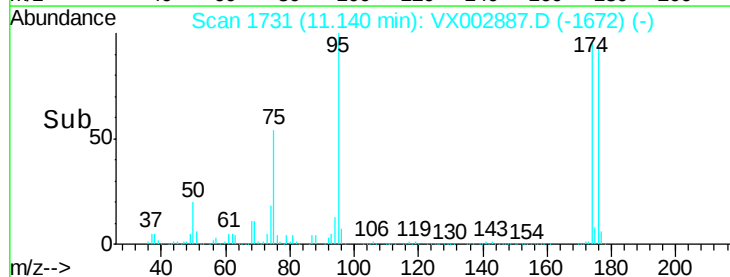
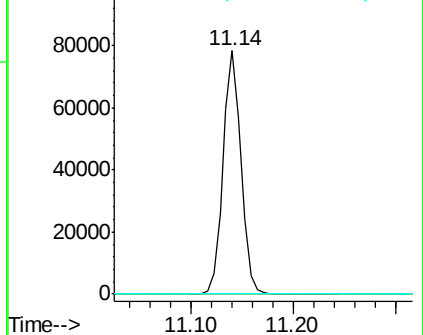
89 0.0 38.2 57.2#

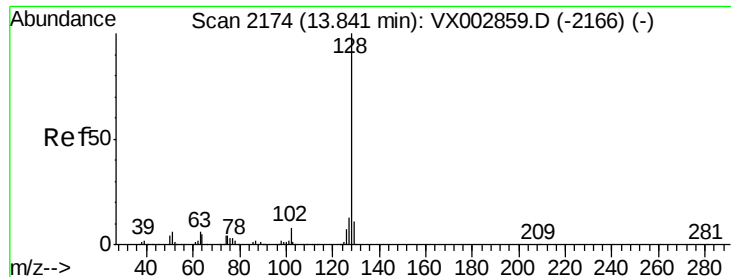


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
Naphthalene
Concen: 0.32 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. -0.01 min
Lab File: VX002887.D
Acq: 26 Jun 2018 03:52

Instrument :
MSVOA_X
ClientSampleId :
W-26

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.4	10.4	15.6
129	14.7	8.6	13.0

