

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062718\
 Data File : VX002969.D
 Acq On : 28 Jun 2018 06:38
 Operator : JC/MD
 Sample : J3718-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-33

Quant Time: Jun 28 07:51:57 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	274858	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	386228	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	361159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	211591	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	184060	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
35) Dibromofluoromethane	5.51	113	150117	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
50) Toluene-d8	8.72	98	543690	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
62) 4-Bromofluorobenzene	11.14	95	197804	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	

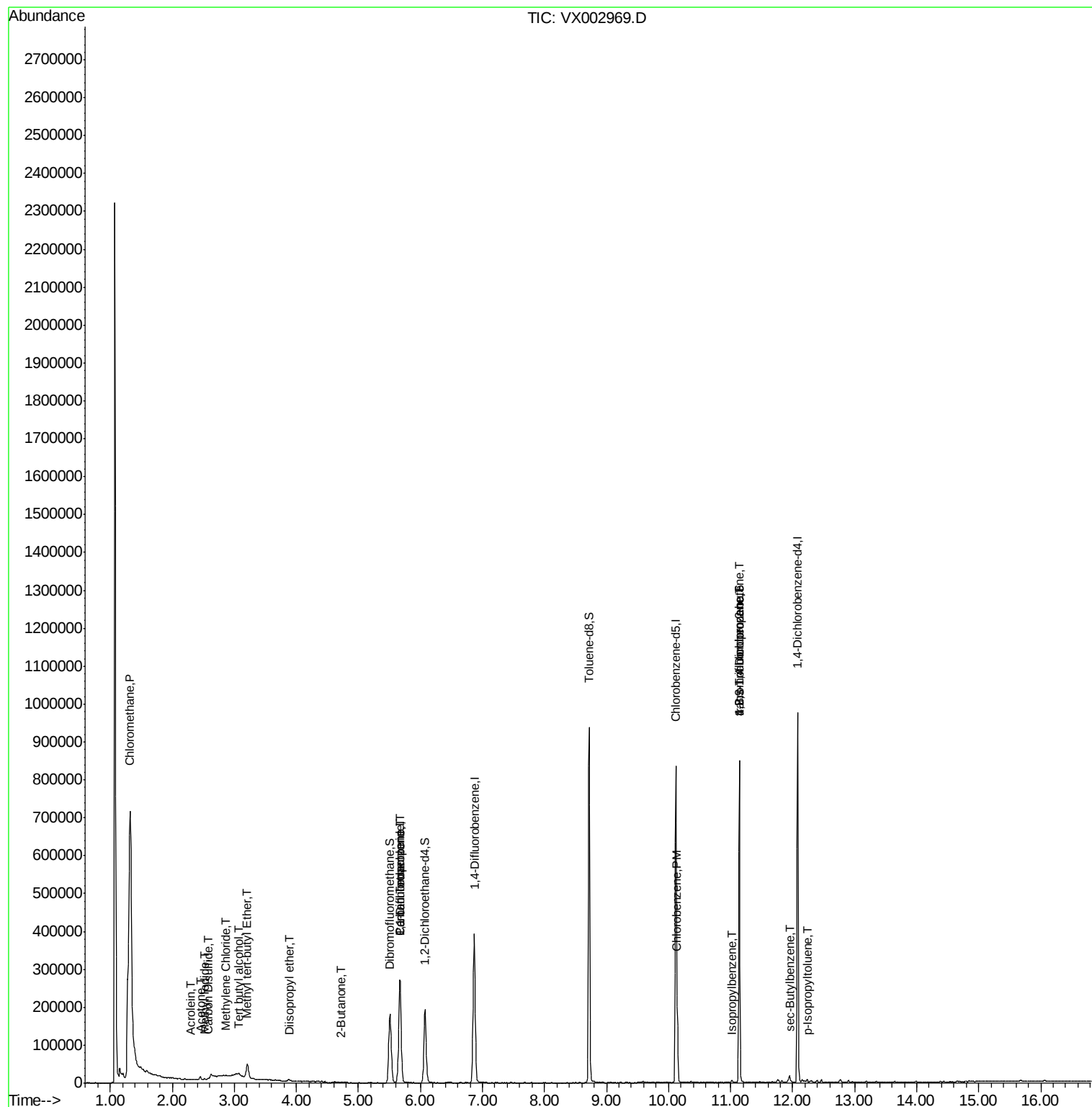
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	236	Below Cal	#	43
3) Chloromethane	1.32	50	45554	17.09	ug/l	45
5) Bromomethane	1.66	94	1210	Below Cal		99
6) Chloroethane	1.95	64	1433	Below Cal	#	43
10) Methyl Iodide	2.52	142	2843	7.03	ug/l	98
11) Tert butyl alcohol	3.07	59	7854	10.38	ug/l	97
13) Acrolein	2.31	56	147	4.57	ug/l	# 14
16) Acetone	2.45	43	7657	4.87	ug/l	97
17) Carbon Disulfide	2.58	76	6766	0.94	ug/l	# 92
19) Methyl tert-butyl Ether	3.21	73	40850	4.19	ug/l	95
20) Methylene Chloride	2.85	84	1028	0.34	ug/l	88
22) Diisopropyl ether	3.88	45	4698	0.46	ug/l	# 77
25) 2-Butanone	4.72	43	537	0.23	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	18945	4.47	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	24961	5.37	ug/l	# 16
65) Chlorobenzene	10.14	112	72776	7.93	ug/l	96
73) Isopropylbenzene	11.02	105	3411	0.24	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	103667	27.05	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	103667	76.56	ug/l	# 7
85) sec-Butylbenzene	11.95	105	4679	0.33	ug/l	# 58
86) p-Isopropyltoluene	12.24	119	2671	0.21	ug/l	89

(#) = 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# 834

Delta R.T. 0.01 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampled :

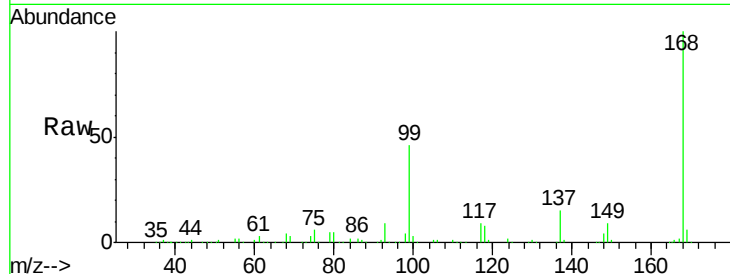
W-33

Tot Ion:168 Resp: 274858

Ion Ratio Lower Upper

168 100

99 46.2 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

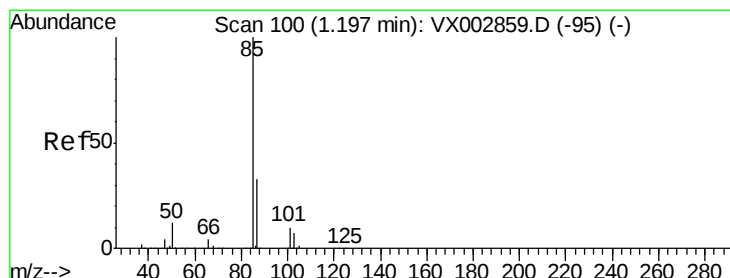
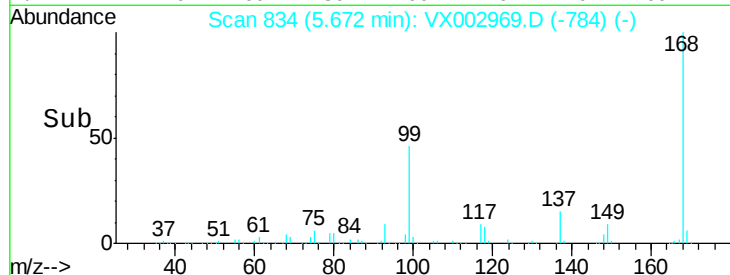
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.21 min Scan# 102

Delta R.T. 0.01 min

Lab File: VX002969.D

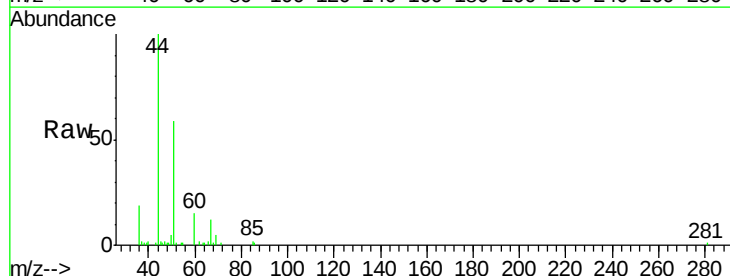
Acq: 28 Jun 2018 06:38

Tgt Ion: 85 Resp: 236

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

1.21

200

150

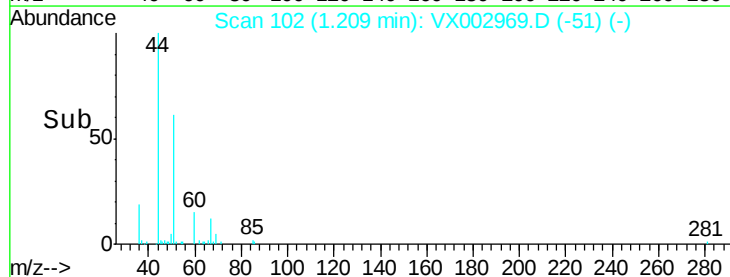
100

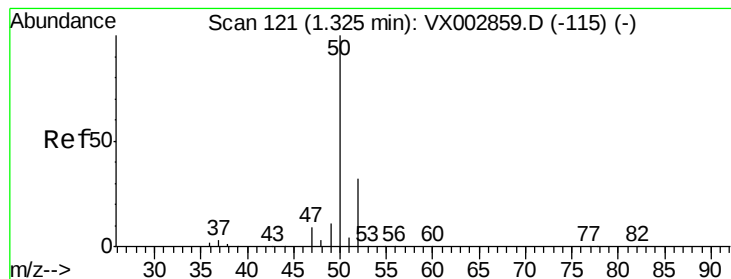
50

0

Time-->

1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 17.09 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampleId :

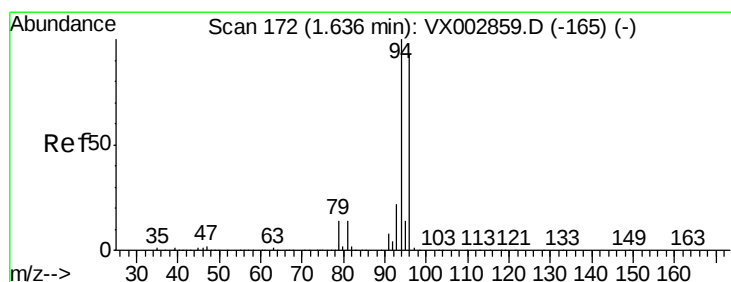
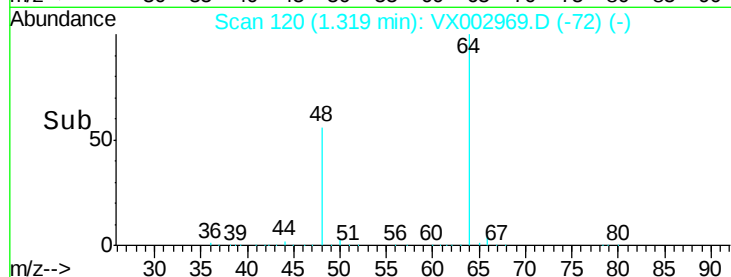
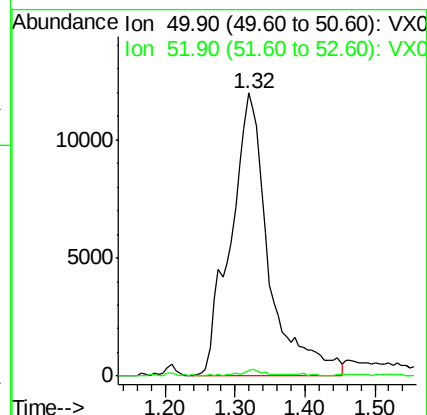
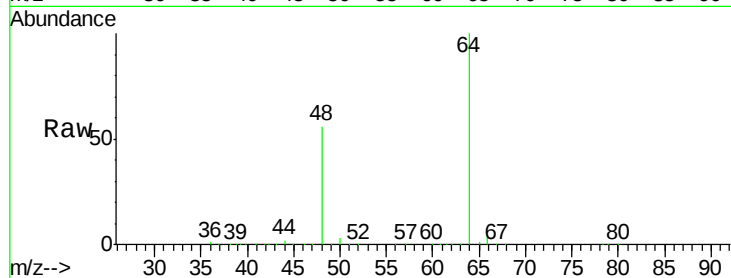
W-33

Tot Ion: 50 Resp: 45554

Ion Ratio Lower Upper

50 100

52 1.4 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002969.D

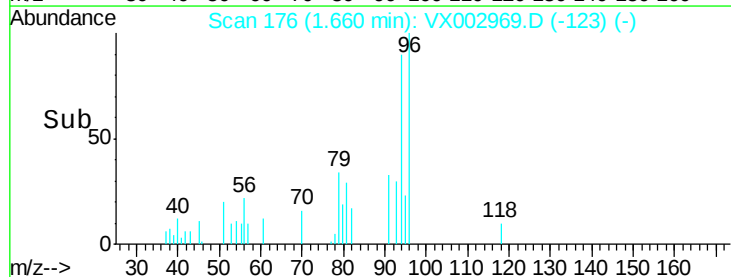
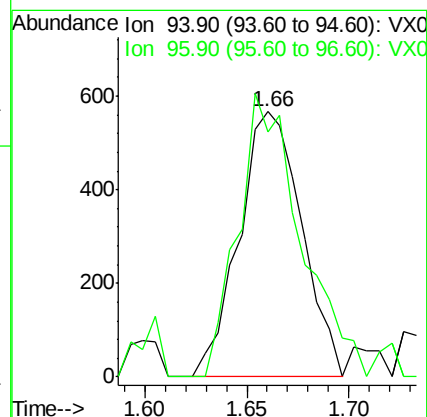
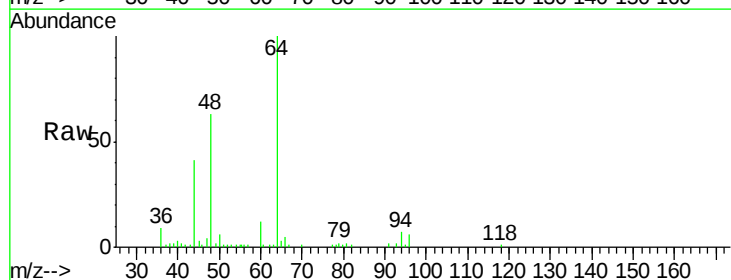
Acq: 28 Jun 2018 06:38

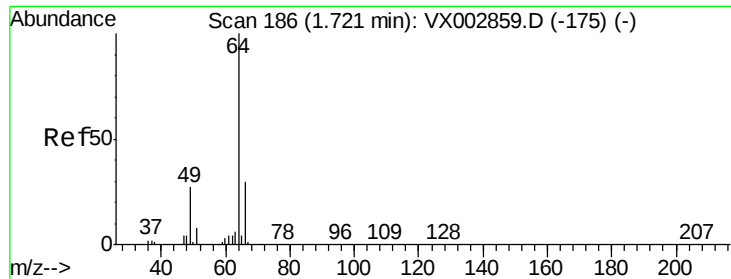
Tgt Ion: 94 Resp: 1210

Ion Ratio Lower Upper

94 100

96 92.6 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.95 min Scan# 223

Delta R.T. 0.23 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampled :

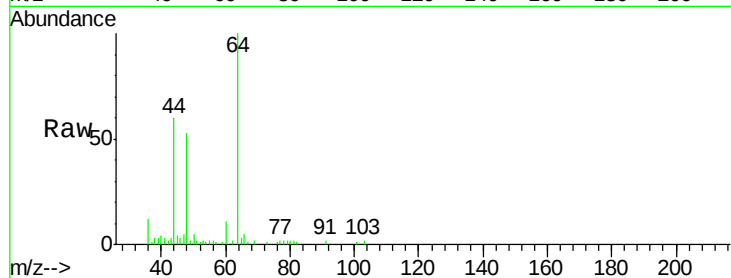
W-33

Tot Ion: 64 Resp: 1433

Ion Ratio Lower Upper

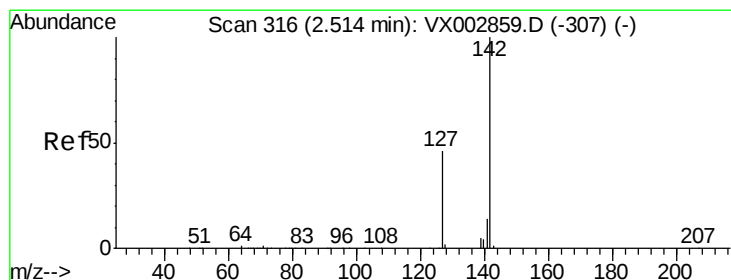
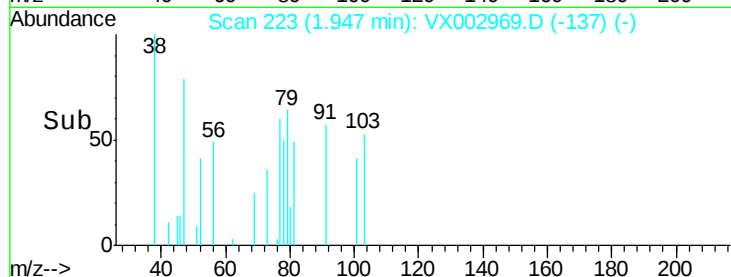
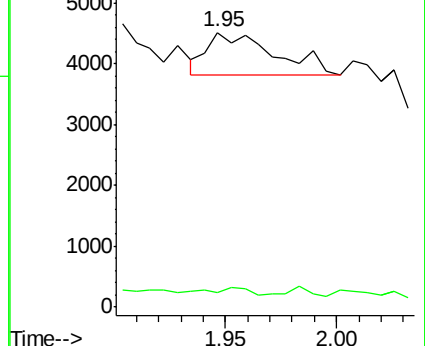
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX002859.D (-175) (-)

Ion 65.90 (65.60 to 66.60): VX002859.D (-175) (-)



#10

Methyl Iodide

Concen: 7.03 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

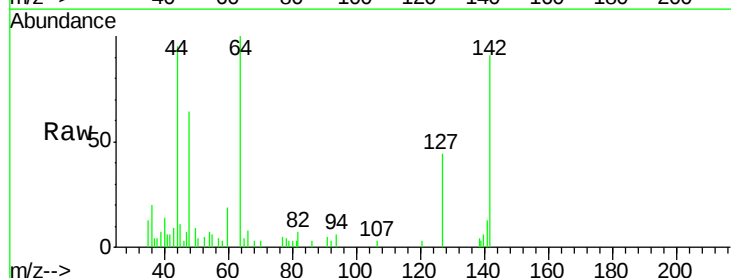
Tgt Ion: 142 Resp: 2843

Ion Ratio Lower Upper

142 100

127 46.4 36.6 55.0

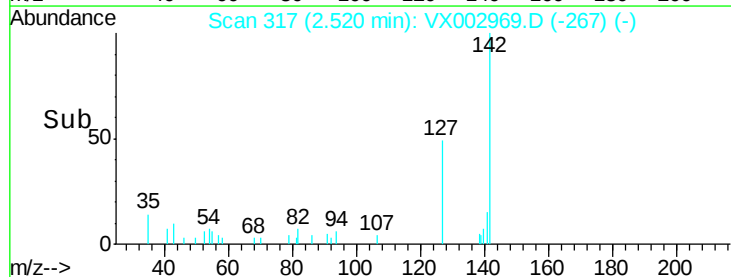
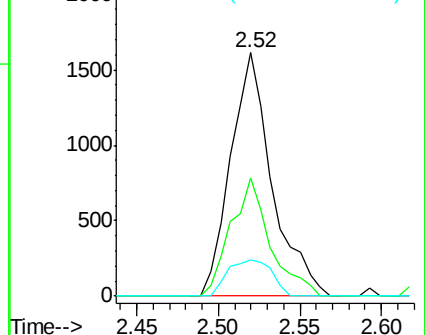
141 15.8 11.3 16.9

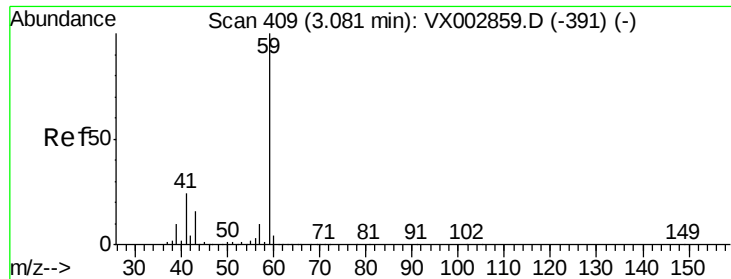


Abundance Ion 141.80 (141.50 to 142.50): VX002859.D (-307) (-)

Ion 126.80 (126.50 to 127.50): VX002859.D (-307) (-)

Ion 140.80 (140.50 to 141.50): VX002859.D (-307) (-)



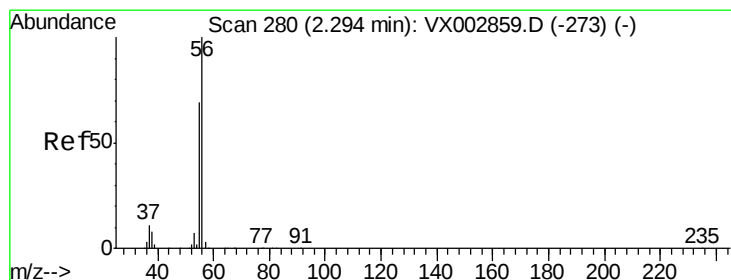
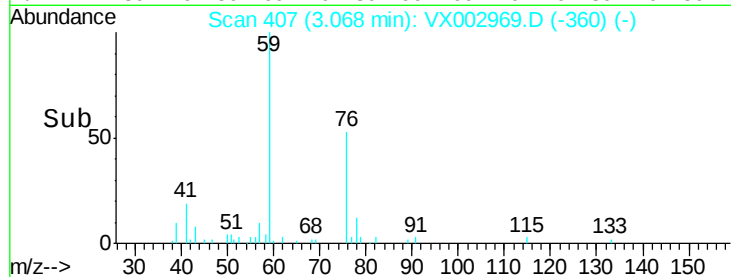
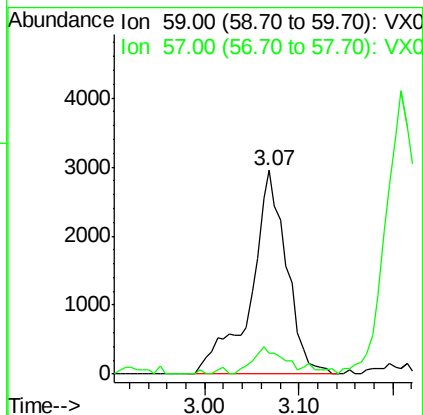
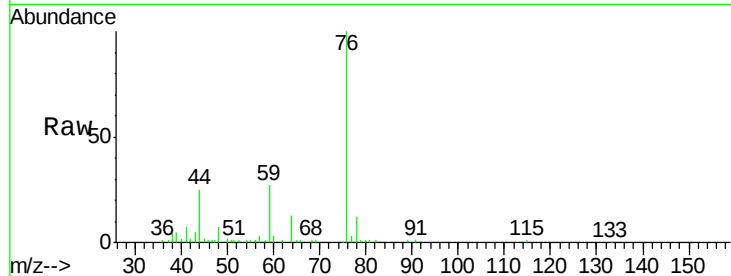


#11

Tert butyl alcohol
 Concen: 10.38 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.01 min
 Lab File: VX002969.D
 Acq: 28 Jun 2018 06:38

Instrument :
 MSVOA_X
 ClientSampled :
 W-33

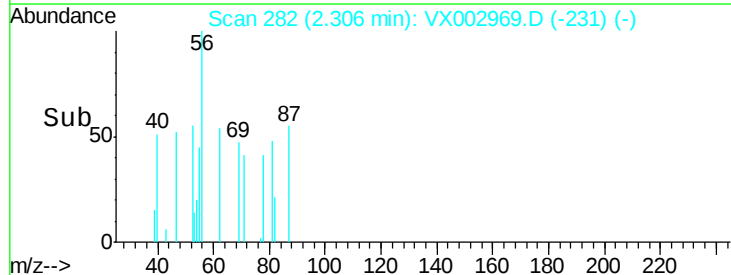
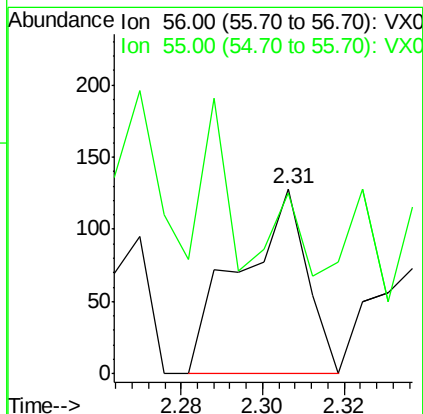
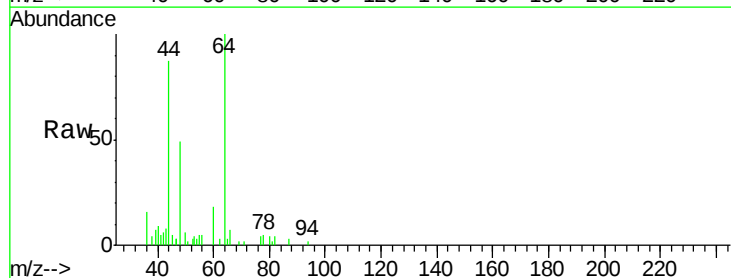
Tot Ion: 59 Resp: 7854
 Ion Ratio Lower Upper
 59 100
 57 11.5 8.2 12.2

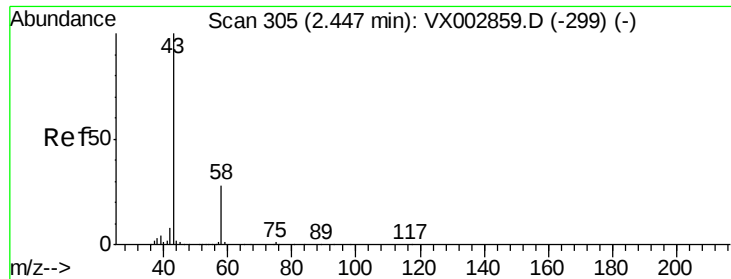


#13

Acrolein
 Concen: 4.57 ug/l
 RT: 2.31 min Scan# 282
 Delta R.T. 0.01 min
 Lab File: VX002969.D
 Acq: 28 Jun 2018 06:38

Tgt Ion: 56 Resp: 147
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 4.87 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampled :

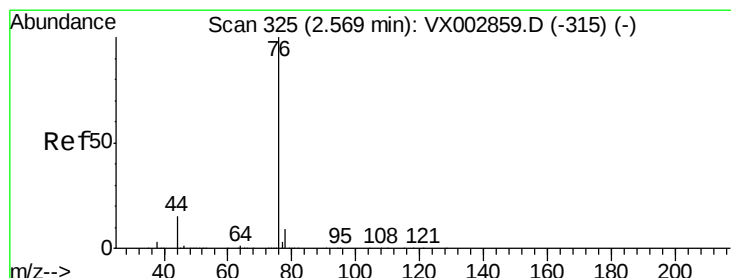
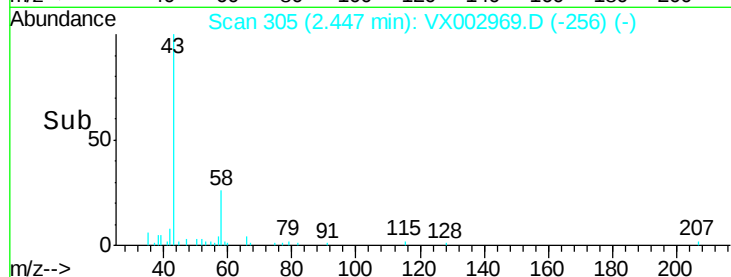
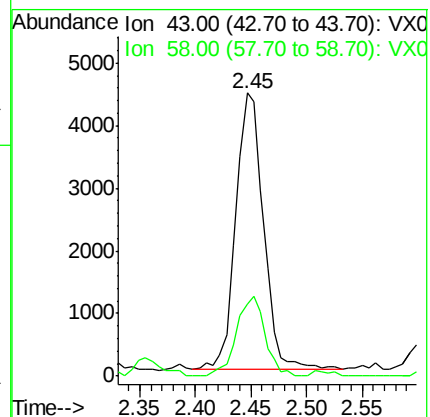
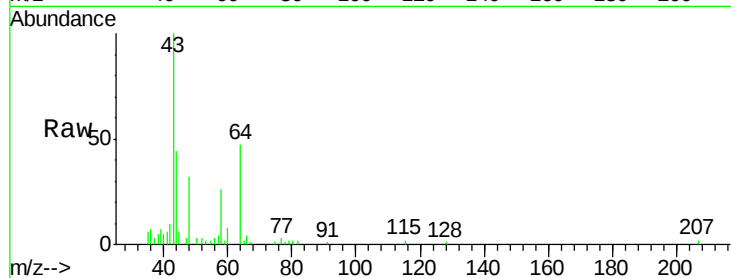
W-33

Tot Ion: 43 Resp: 7657

Ion Ratio Lower Upper

43 100

58 26.1 22.1 33.1



#17

Carbon Disulfide

Concen: 0.94 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX002969.D

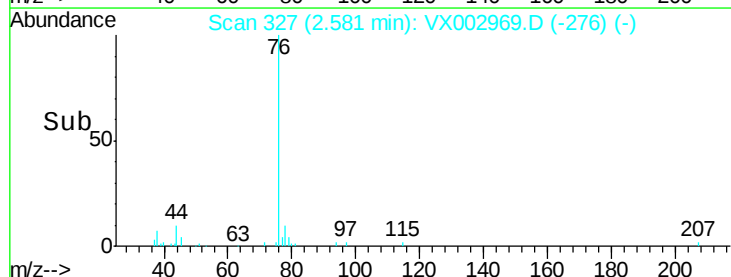
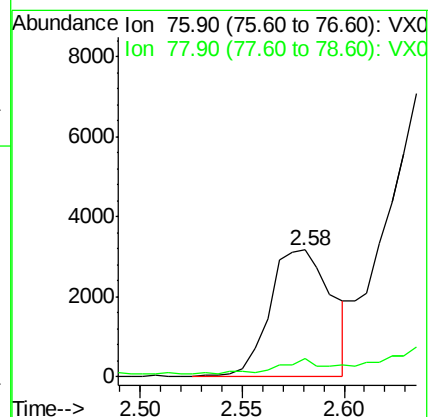
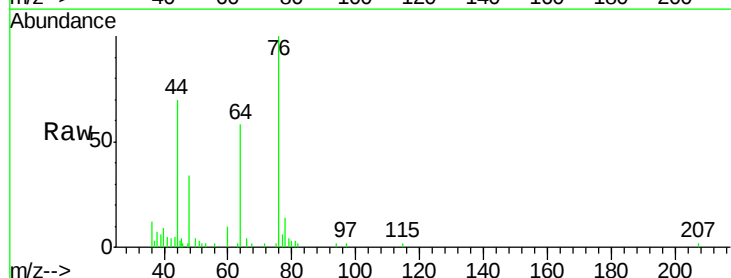
Acq: 28 Jun 2018 06:38

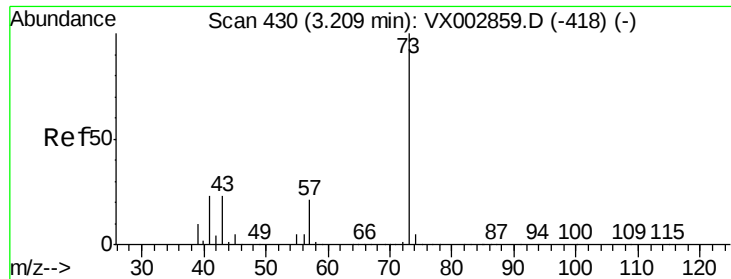
Tgt Ion: 76 Resp: 6766

Ion Ratio Lower Upper

76 100

78 11.4 6.9 10.3#





#19

Methyl tert-butyl Ether

Concen: 4.19 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.00 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampled :

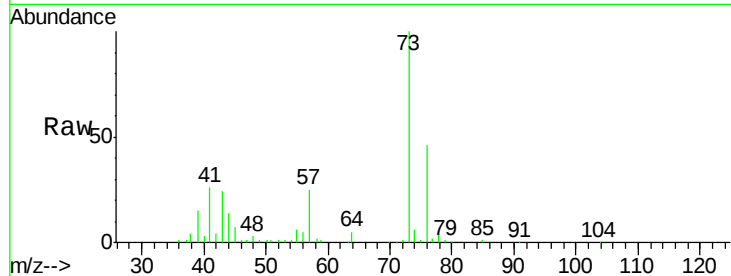
W-33

Tot Ion: 73 Resp: 40850

Ion Ratio Lower Upper

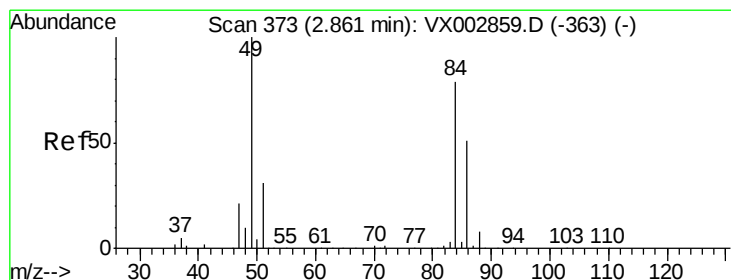
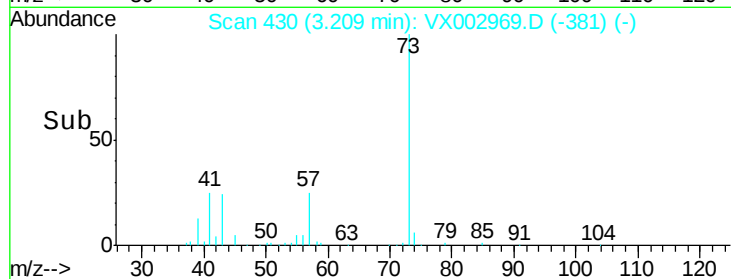
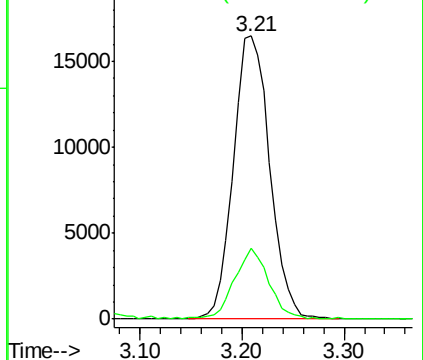
73 100

57 24.5 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#20

Methylene Chloride

Concen: 0.34 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Tgt Ion: 84 Resp: 1028

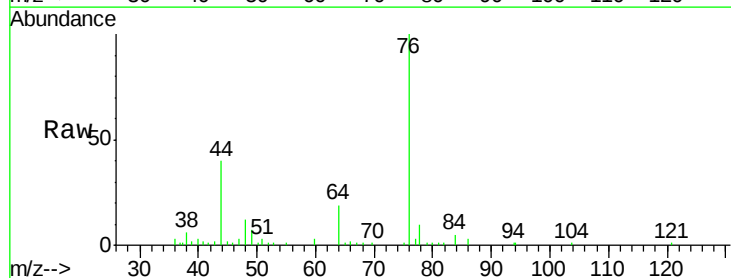
Ion Ratio Lower Upper

84 100

49 157.9 107.8 161.6

51 36.0 32.8 49.2

86 65.8 52.5 78.7

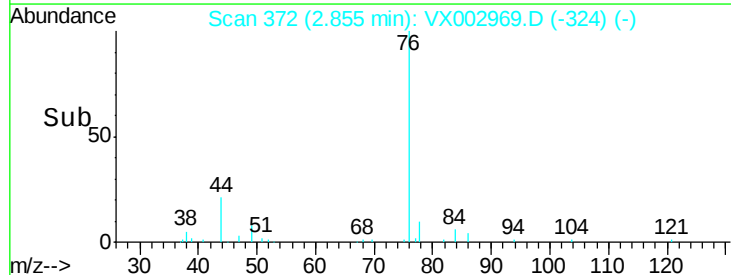
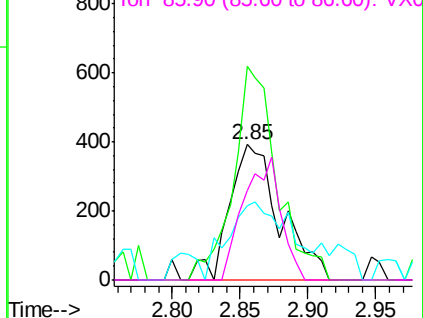


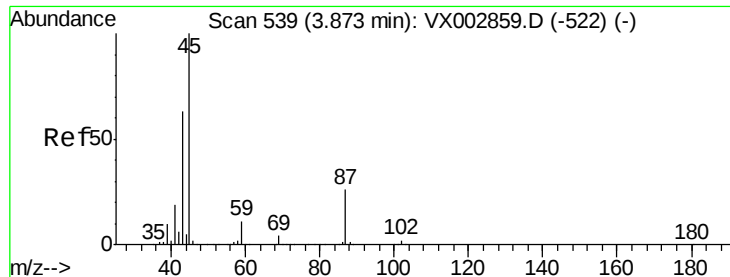
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

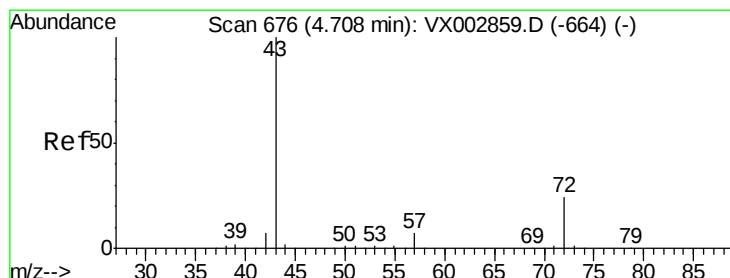
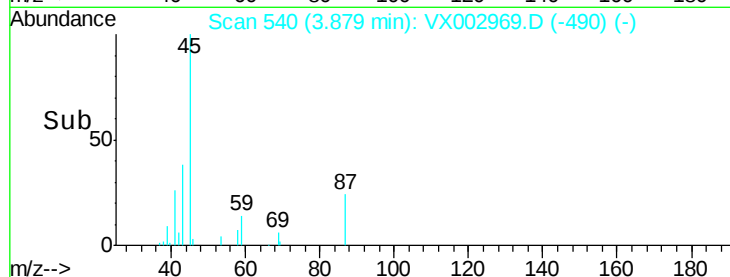
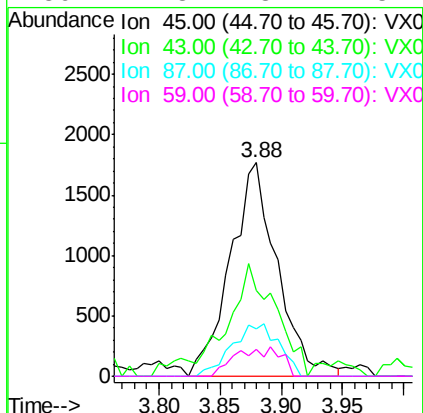
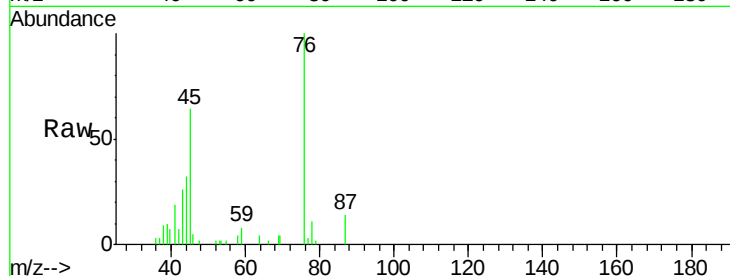




#22
Diisopropyl ether
Concen: 0.46 ug/l
RT: 3.88 min Scan# 540
Delta R.T. 0.01 min
Lab File: VX002969.D
Acq: 28 Jun 2018 06:38

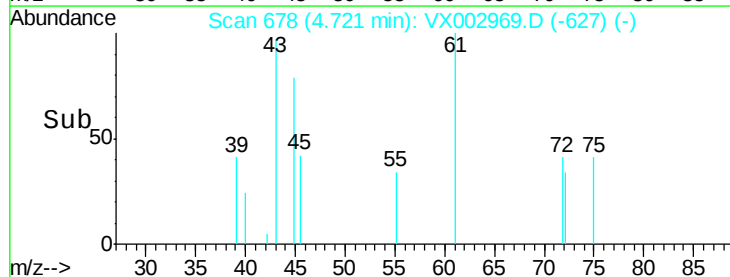
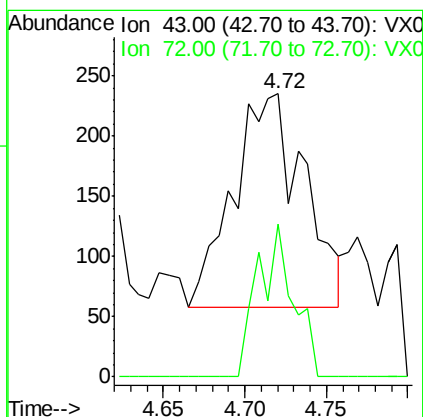
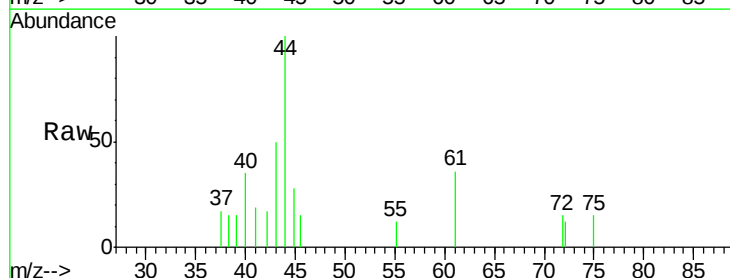
Instrument :
MSVOA_X
ClientSampled :
W-33

Tot Ion:	45	Resp:	4698
Ion	Ratio	Lower	Upper
45	100		
43	33.0	46.8	70.2#
87	22.1	20.2	30.4
59	12.8	8.7	13.1



#25
2-Butanone
Concen: 0.23 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002969.D
Acq: 28 Jun 2018 06:38

Tgt Ion:	43	Resp:	537
Ion	Ratio	Lower	Upper
43	100		
72	71.8	18.5	27.7#

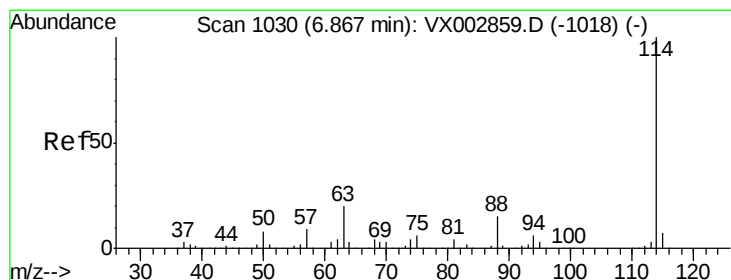
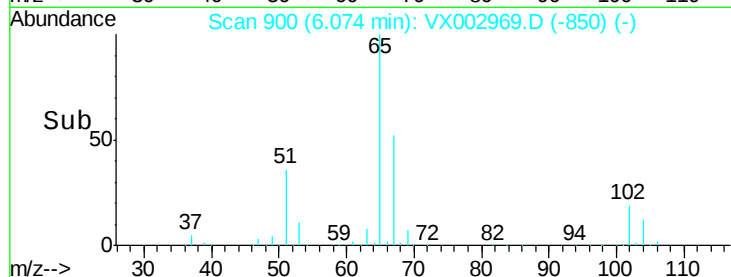
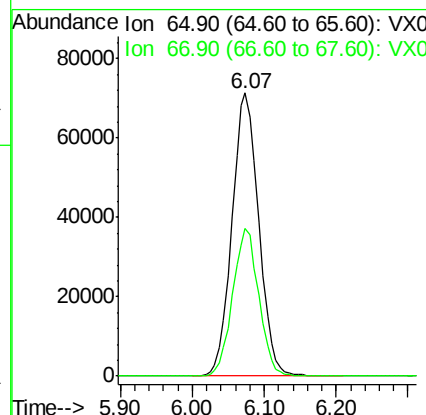
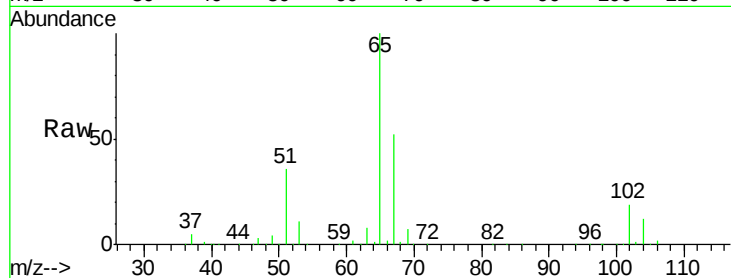




#33
 1,2-Dichloroethane-d4
 Concen: 48.45 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002969.D
 Acq: 28 Jun 2018 06:38

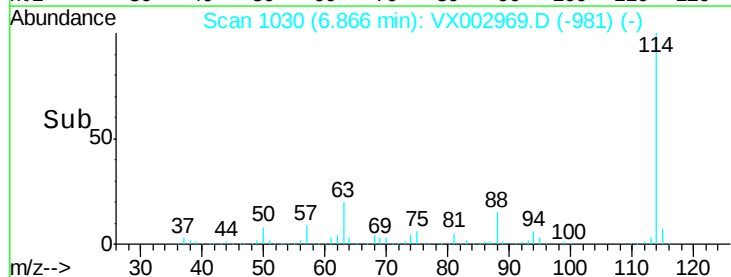
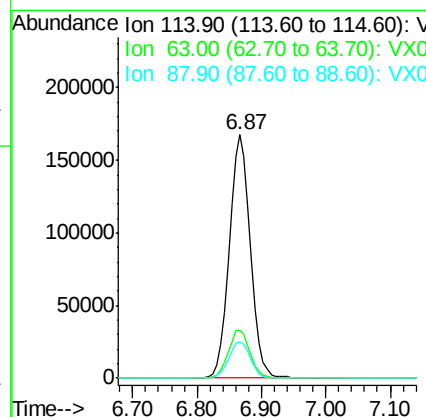
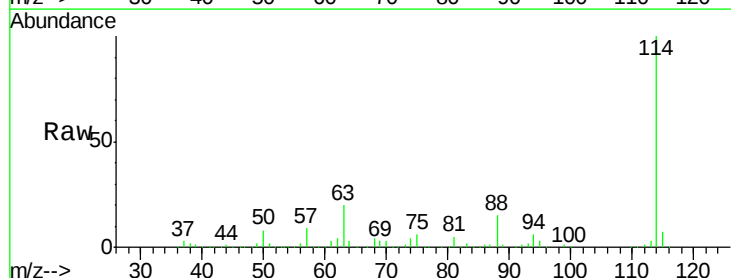
Instrument :
 MSVOA_X
 ClientSampleId :
 W-33

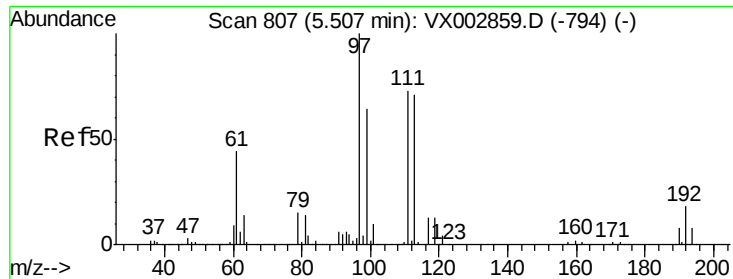
Tot Ion: 65 Resp: 184060
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002969.D
 Acq: 28 Jun 2018 06:38

Tgt Ion: 114 Resp: 386228
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.1 0.0 30.0

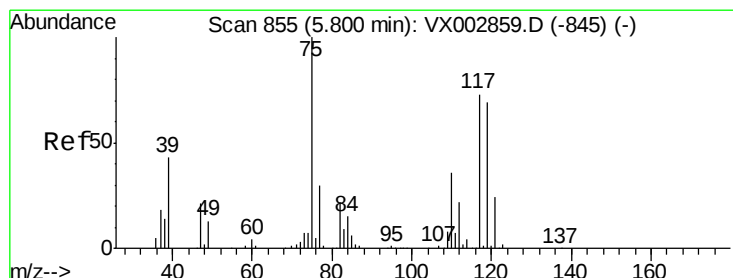
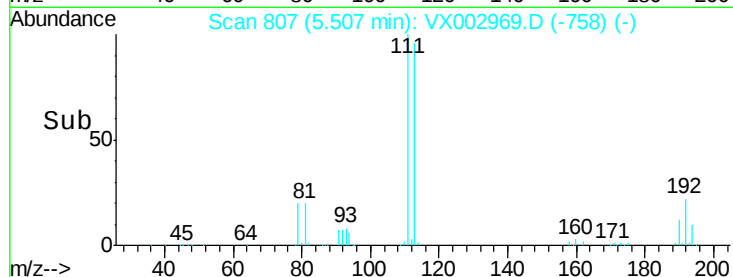
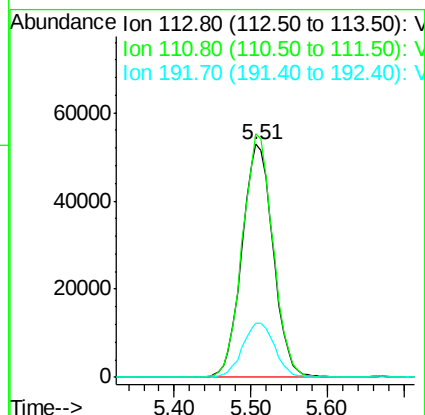
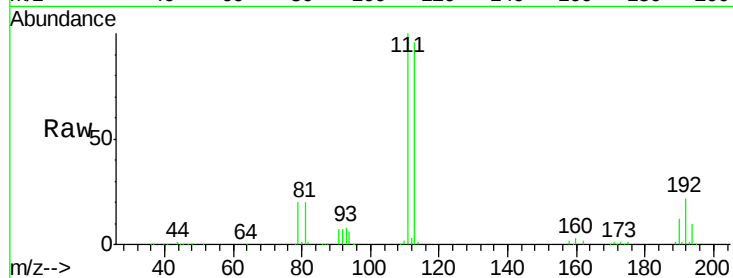




#35
 Dibromofluoromethane
 Concen: 49.08 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002969.D
 Acq: 28 Jun 2018 06:38

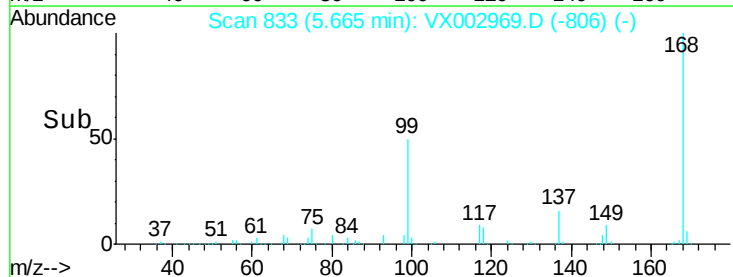
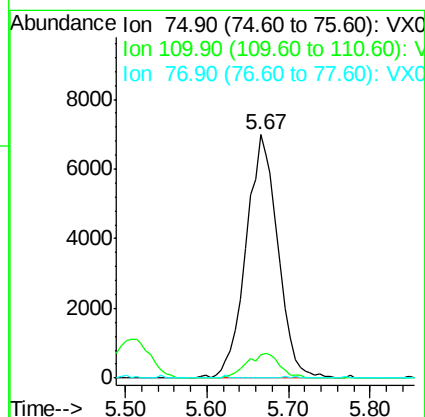
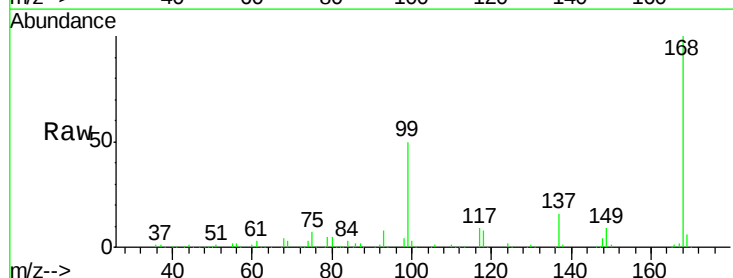
Instrument :
 MSVOA_X
 ClientSampleId :
 W-33

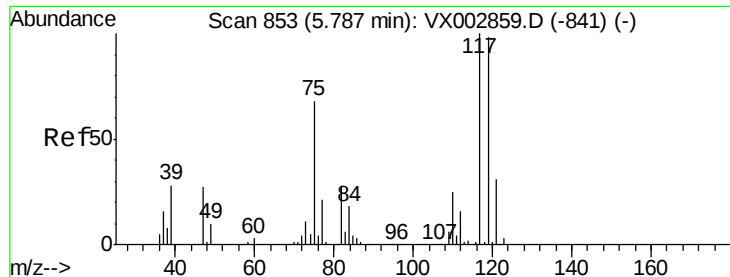
Tot Ion:113 Resp: 150117
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.4 122.0
 192 24.1 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.47 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002969.D
 Acq: 28 Jun 2018 06:38

Tgt Ion: 75 Resp: 18945
 Ion Ratio Lower Upper
 75 100
 110 10.5 18.1 54.4#
 77 0.0 24.3 36.5#

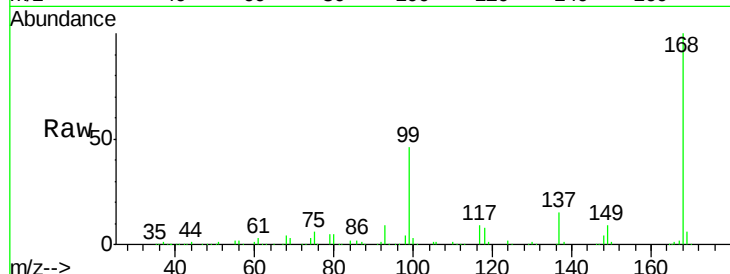




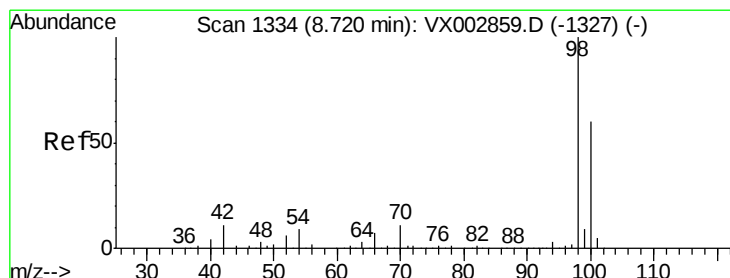
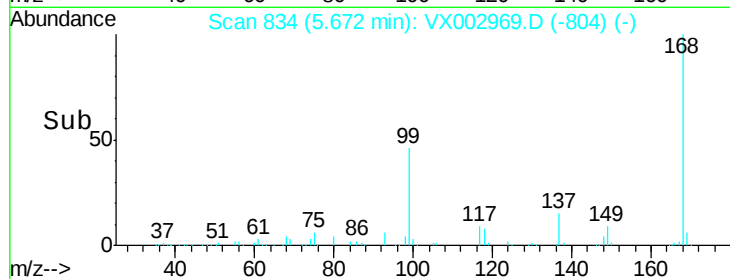
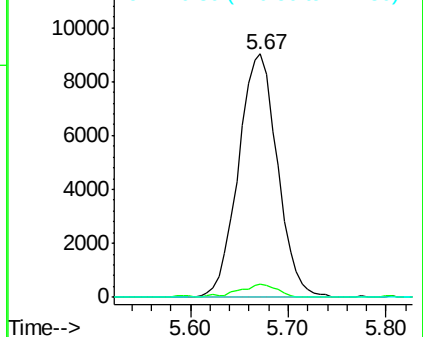
#38
Carbon Tetrachloride
Concen: 5.37 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX002969.D
Acq: 28 Jun 2018 06:38

Instrument :
MSVOA_X
ClientSampled :
W-33

Tot Ion:117 Resp: 24961
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 24.4 36.6#

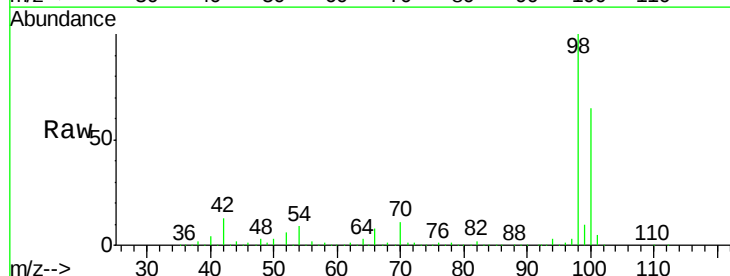


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

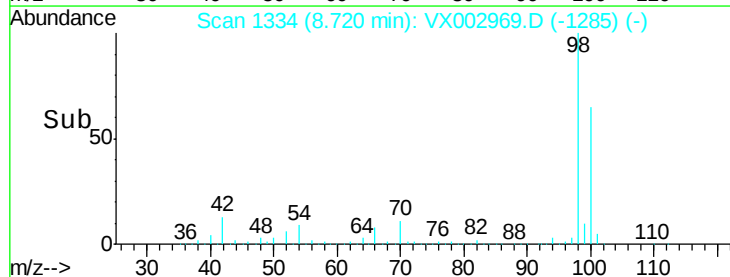
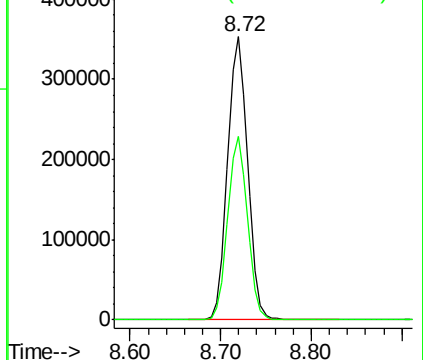


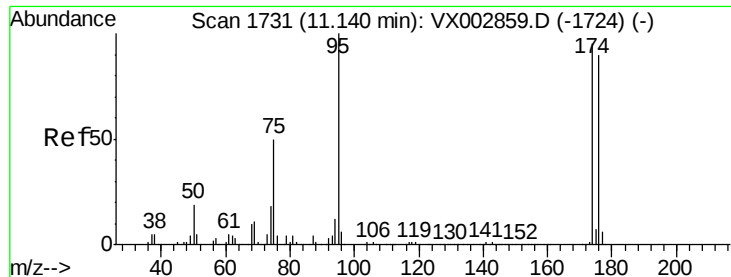
#50
Toluene-d8
Concen: 48.68 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002969.D
Acq: 28 Jun 2018 06:38

Tgt Ion: 98 Resp: 543690
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3



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

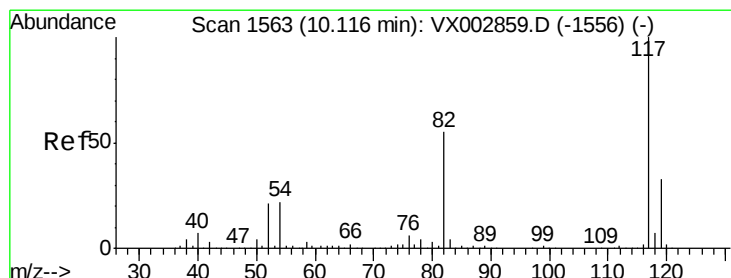
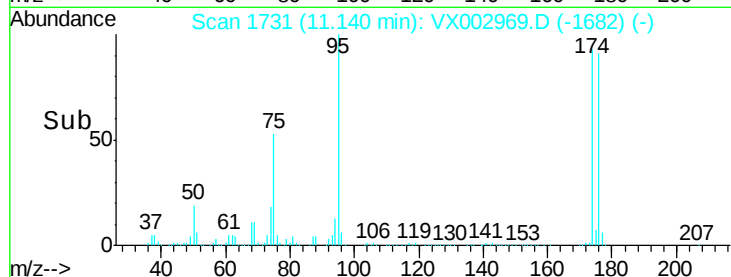
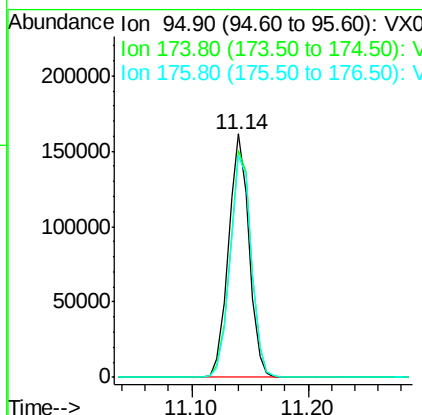
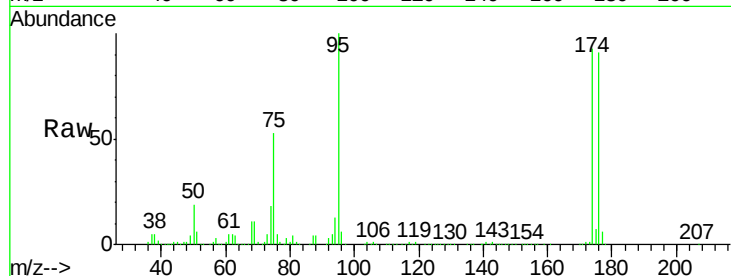




#62
4-Bromofluorobenzene
Concen: 45.92 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002969.D
Acq: 28 Jun 2018 06:38

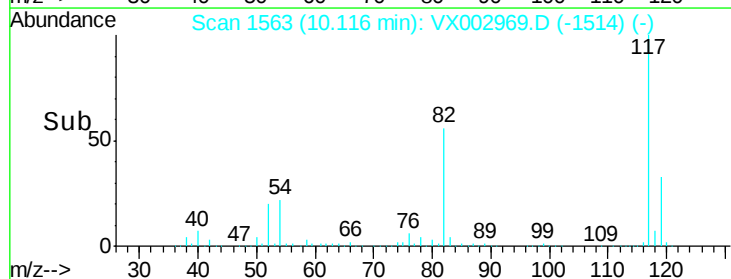
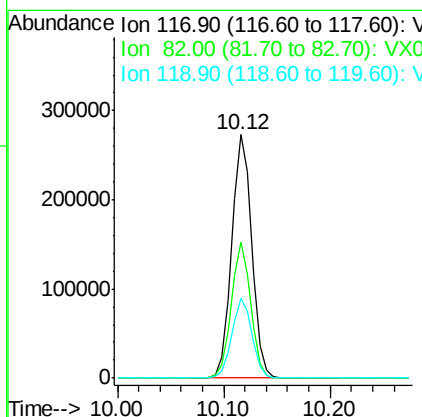
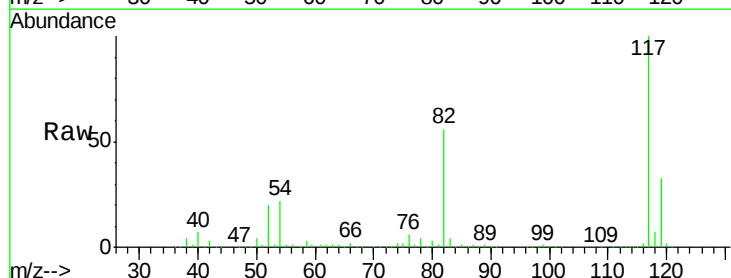
Instrument :
MSVOA_X
ClientSampleId :
W-33

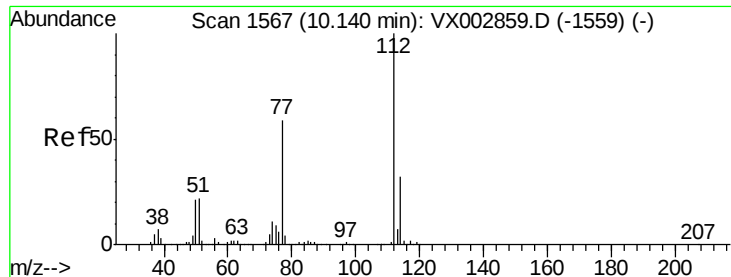
Tot Ion: 95 Resp: 197804
Ion Ratio Lower Upper
95 100
174 96.5 0.0 187.4
176 94.4 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002969.D
Acq: 28 Jun 2018 06:38

Tgt Ion: 117 Resp: 361159
Ion Ratio Lower Upper
117 100
82 56.0 45.0 67.4
119 32.5 25.8 38.6





#65

Chlorobenzene

Concen: 7.93 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampled :

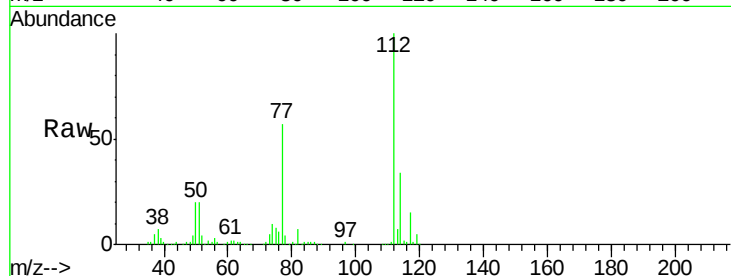
W-33

Tot Ion:112 Resp: 72776

Ion Ratio Lower Upper

112 100

114 33.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

10.14

60000

50000

40000

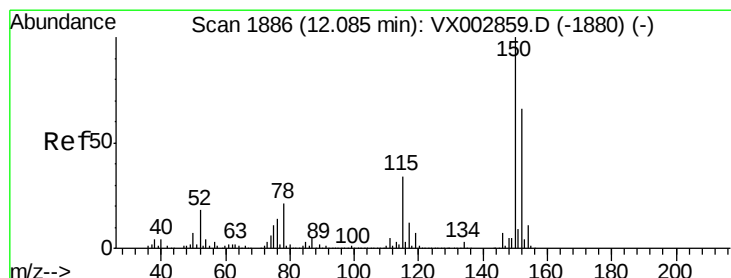
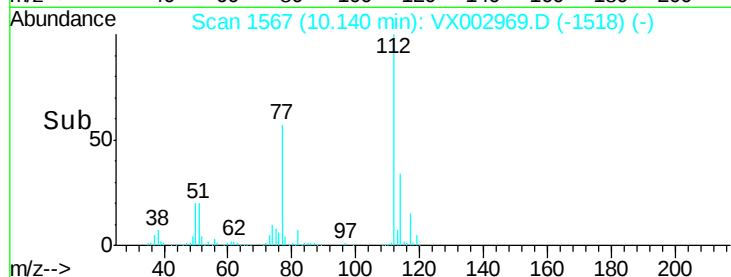
30000

20000

10000

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: VX002969.D

Acq: 28 Jun 2018 06:38

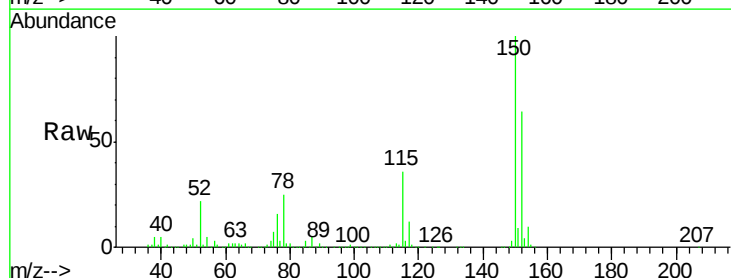
Tgt Ion:152 Resp: 211591

Ion Ratio Lower Upper

152 100

115 54.2 40.1 120.2

150 154.9 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

12.08

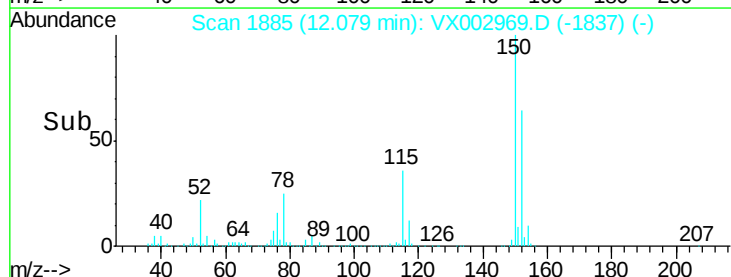
300000

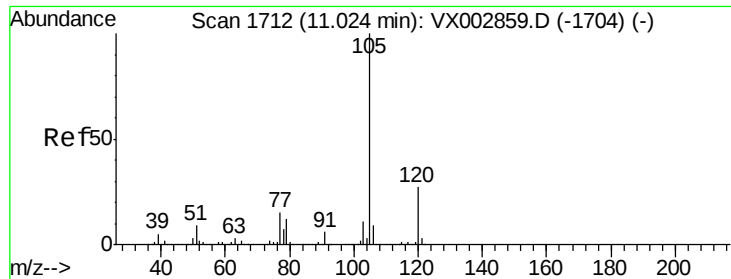
200000

100000

0

Time-->





#73

Isopropylbenzene

Concen: 0.24 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.01 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampled :

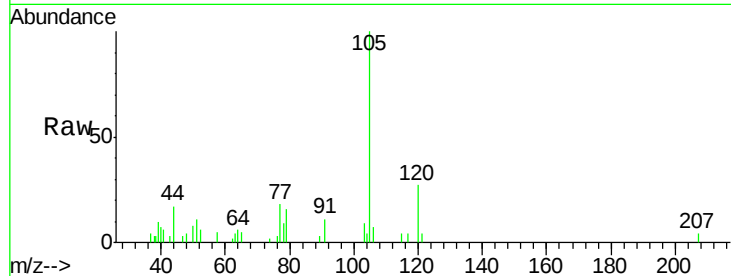
W-33

Tot Ion:105 Resp: 3411

Ion Ratio Lower Upper

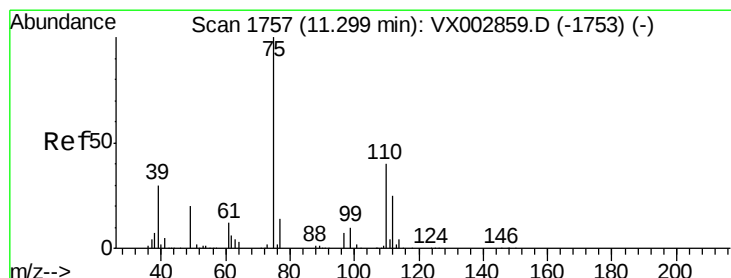
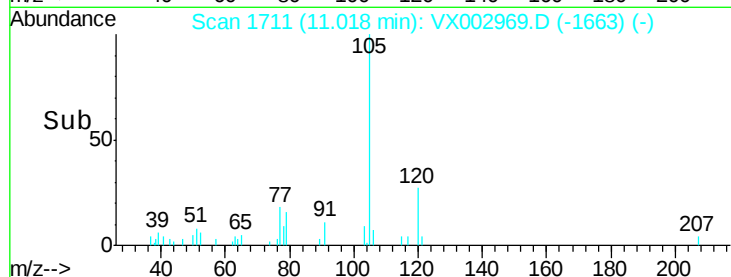
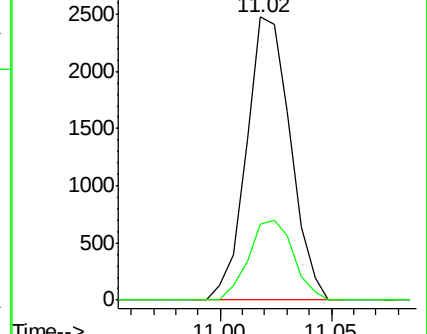
105 100

120 28.7 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: 27.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002969.D

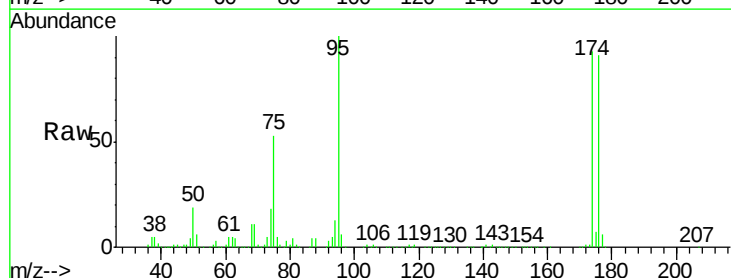
Acq: 28 Jun 2018 06:38

Tgt Ion: 75 Resp: 103667

Ion Ratio Lower Upper

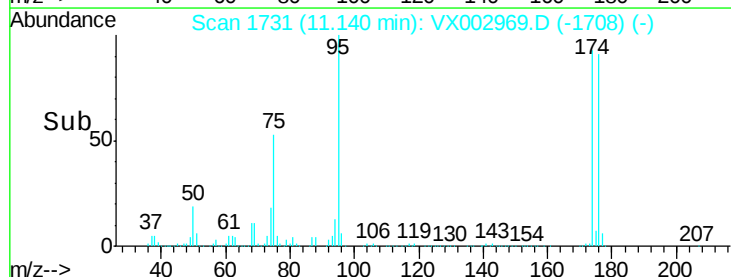
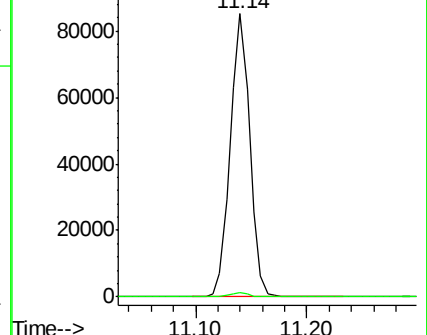
75 100

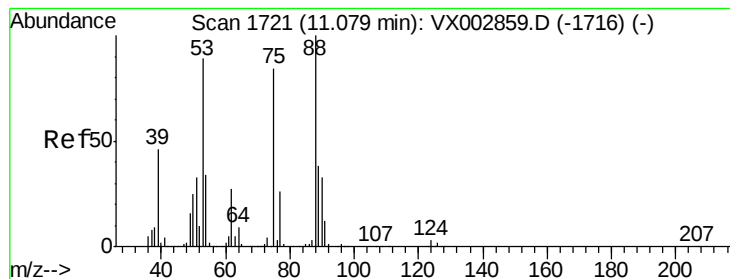
77 1.5 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.56 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampled :

W-33

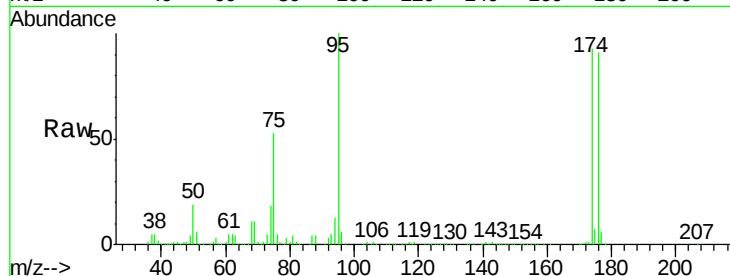
Tot Ion: 75 Resp: 103667

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

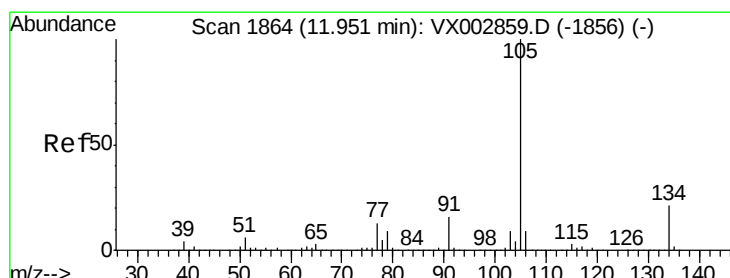
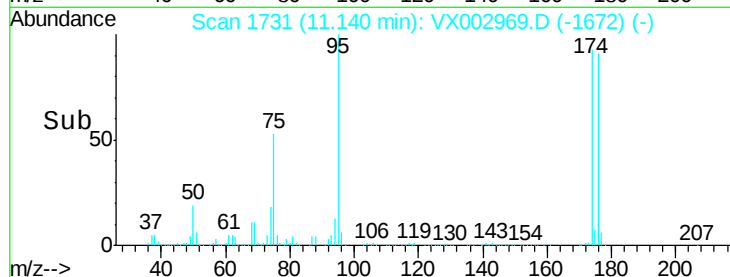
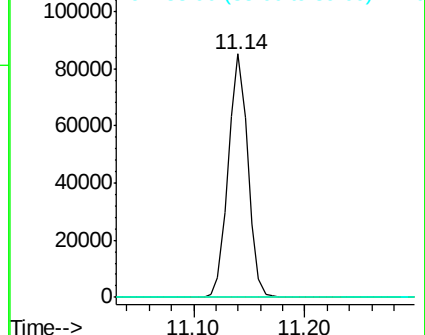
89 0.0 38.2 57.2#



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



#85

sec-Butylbenzene

Concen: 0.33 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX002969.D

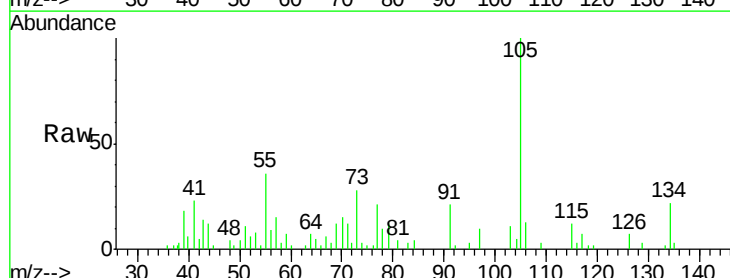
Acq: 28 Jun 2018 06:38

Tgt Ion: 105 Resp: 4679

Ion Ratio Lower Upper

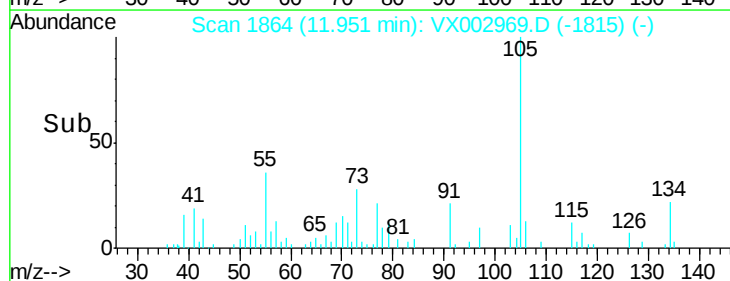
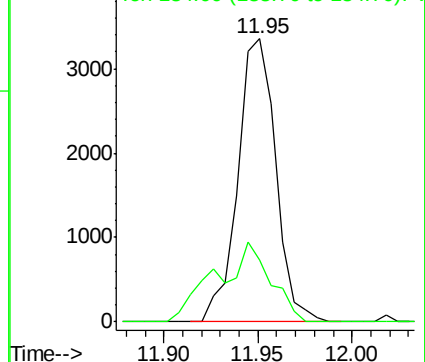
105 100

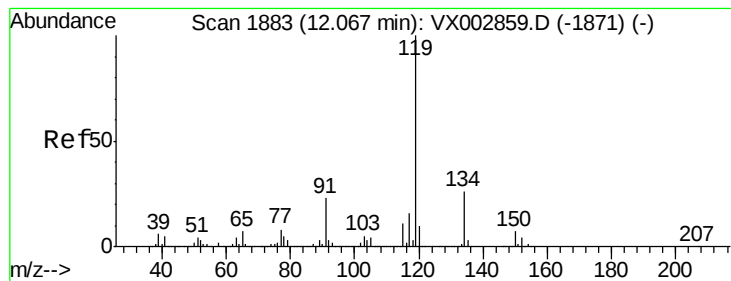
134 40.5 10.4 31.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#86

p-Isopropyltoluene

Concen: 0.21 ug/l

RT: 12.24 min Scan# 1911

Delta R.T. 0.17 min

Lab File: VX002969.D

Acq: 28 Jun 2018 06:38

Instrument :

MSVOA_X

ClientSampleId :

W-33

Tot Ion:119 Resp: 2671

Ion Ratio Lower Upper

119 100

134 27.9 13.4 40.1

91 34.0 11.9 35.7

