

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002071.D
 Acq On : 27 May 2018 16:25
 Operator : JC/MD
 Sample : J3099-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 02:56:58 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	320445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	454749	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	412675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	236568	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	213269	37.23	ug/l	0.00
Spiked Amount			Recovery	=	74.46%	
35) Dibromofluoromethane	5.51	113	166046	36.51	ug/l	0.00
Spiked Amount			Recovery	=	73.02%	
50) Toluene-d8	8.72	98	642613	39.03	ug/l	0.00
Spiked Amount			Recovery	=	78.06%	
62) 4-Bromofluorobenzene	11.14	95	235554	36.57	ug/l	0.00
Spiked Amount			Recovery	=	73.14%	

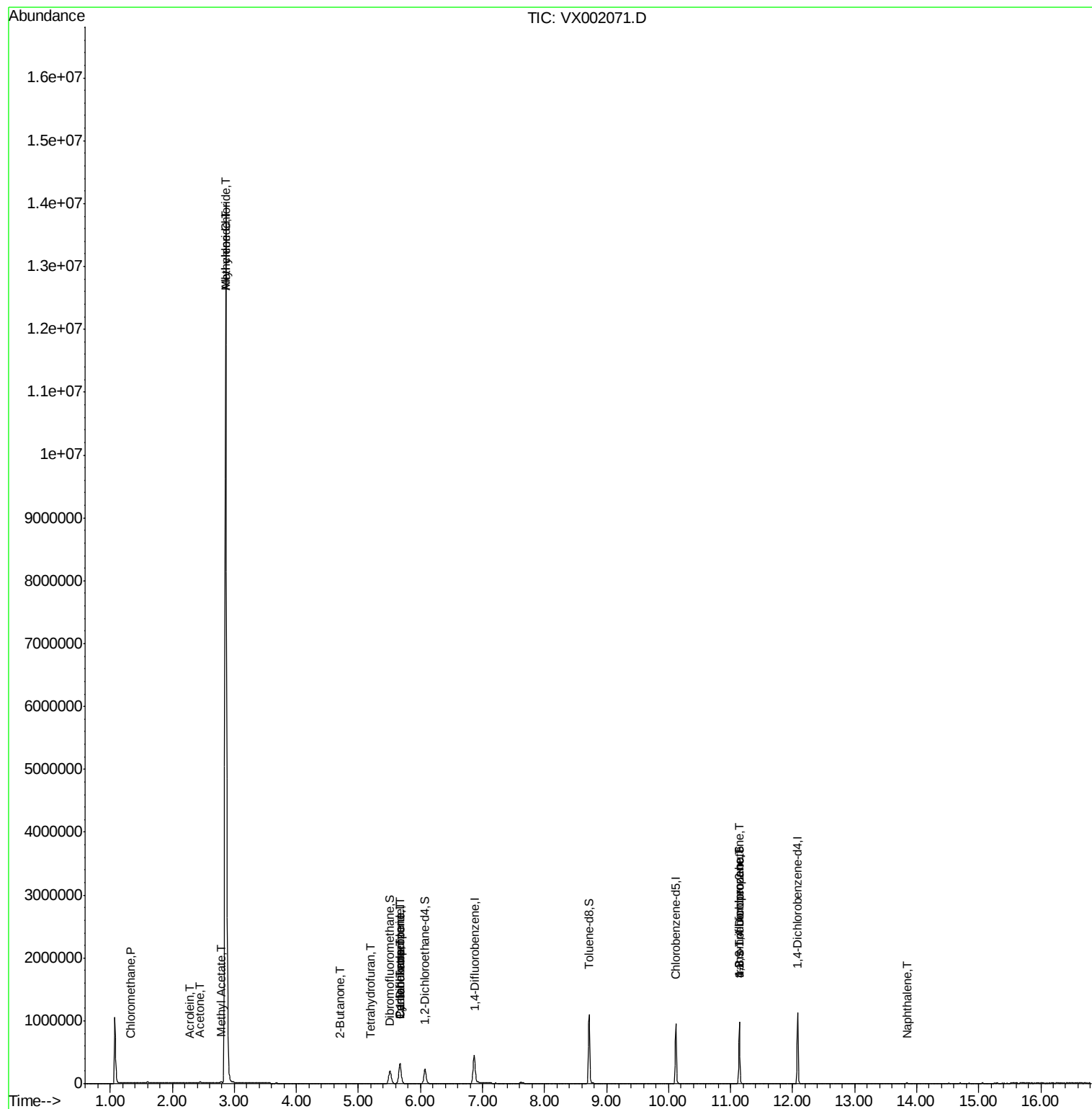
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	86	Below Cal	#	41
3) Chloromethane	1.33	50	4318	0.88	ug/l	# 86
5) Bromomethane	1.65	94	452	Below Cal	#	64
13) Acrolein	2.29	56	272	0.56	ug/l	# 49
14) Allyl chloride	2.86	41	251639	32.10	ug/l	# 26
16) Acetone	2.45	43	18326	8.29	ug/l	97
18) Methyl Acetate	2.78	43	26890	4.00	ug/l	99
20) Methylene Chloride	2.86	84	6580497	1776.84	ug/l	95
21) trans-1,2-Dichloroethene	3.17	96	520	Below Cal	#	55
25) 2-Butanone	4.70	43	3315	0.82	ug/l	# 98
28) Bromochloromethane	5.04	49	1491	Below Cal	#	93
29) Tetrahydrofuran	5.19	42	1412	0.54	ug/l	# 54
31) Cyclohexane	5.67	56	6544	0.83	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	22343	3.53	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	29079	3.94	ug/l	# 15
41) Methacrylonitrile	5.08	41	191	Below Cal	#	62
74) N-amyl acetate	6.49	43	106	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.30	83	86	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	124128	21.84	ug/l	# 33
79) 2-Chlorotoluene	11.42	91	306	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	124128	52.50	ug/l	# 10
95) Naphthalene	13.84	128	7460	0.35	ug/l	96

(#) = 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. 0.00 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

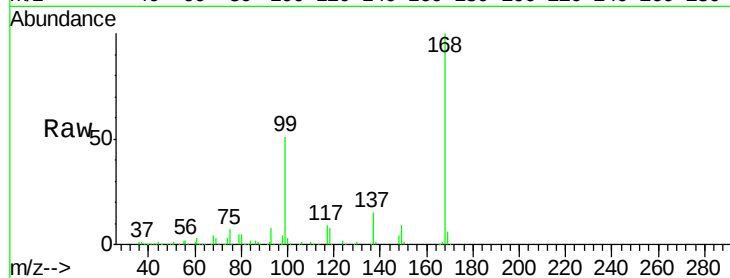
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 320445

Ion Ratio Lower Upper

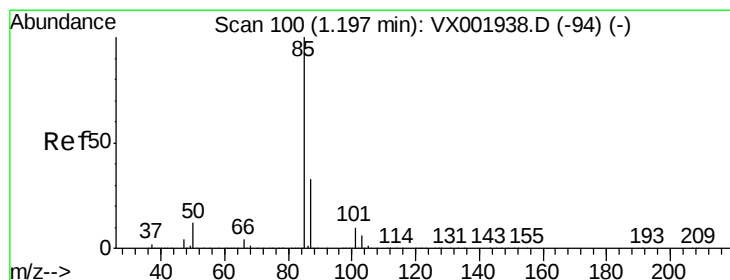
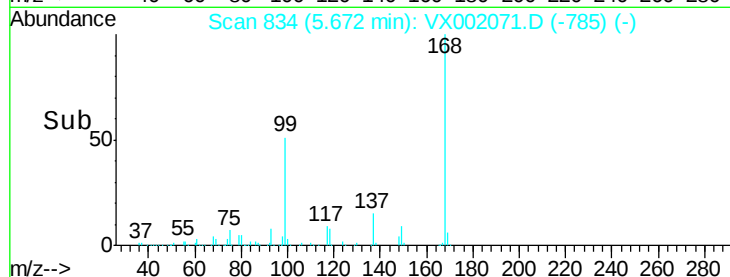
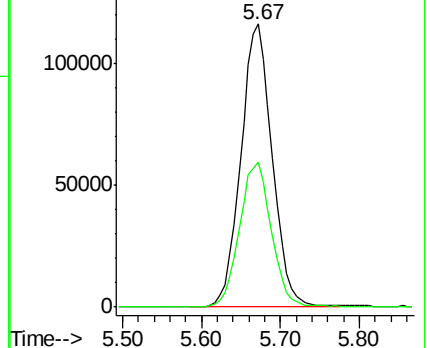
168 100

99 51.2 41.0 61.4



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: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX002071.D

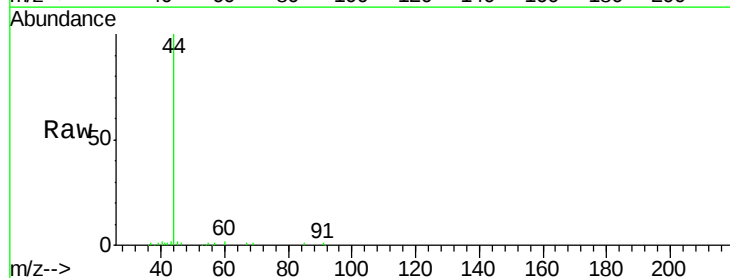
Acq: 27 May 2018 16:25

Tgt Ion: 85 Resp: 86

Ion Ratio Lower Upper

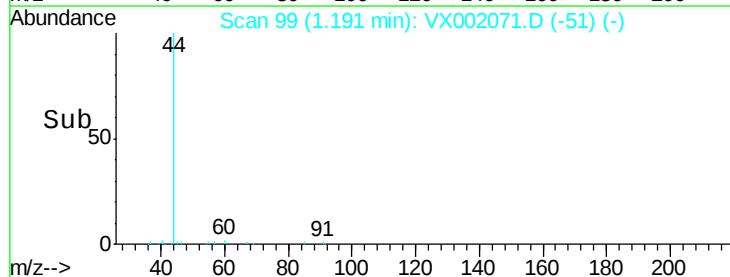
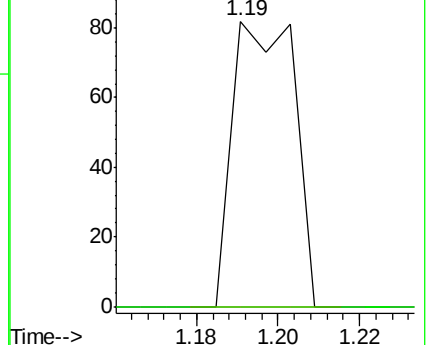
85 100

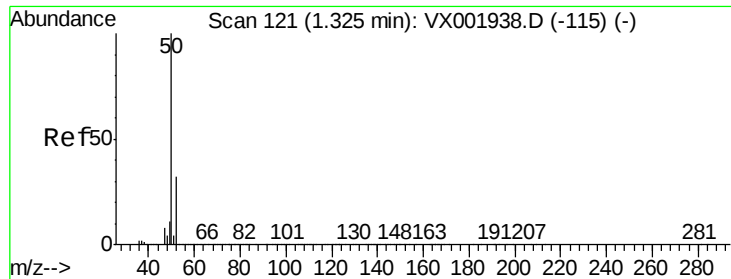
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.88 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

Instrument :

MSVOA_X

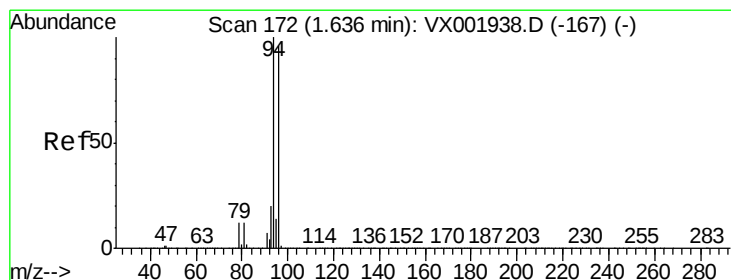
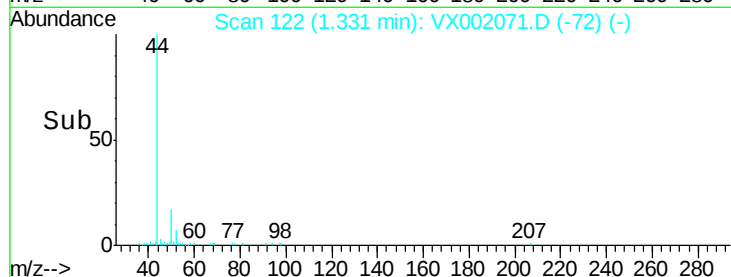
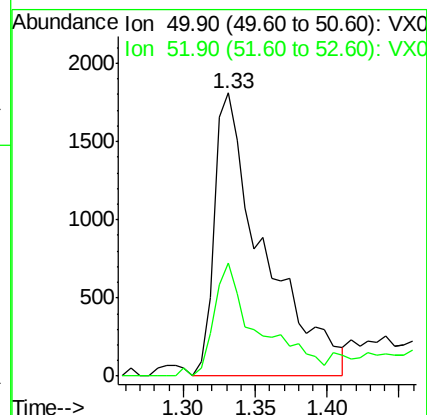
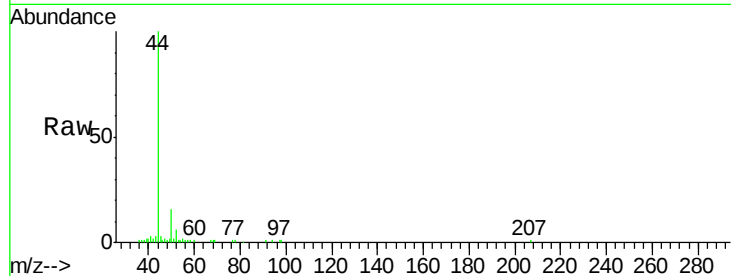
ClientSampleId :

Tot Ion: 50 Resp: 4318

Ion Ratio Lower Upper

50 100

52 40.1 26.0 39.0#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002071.D

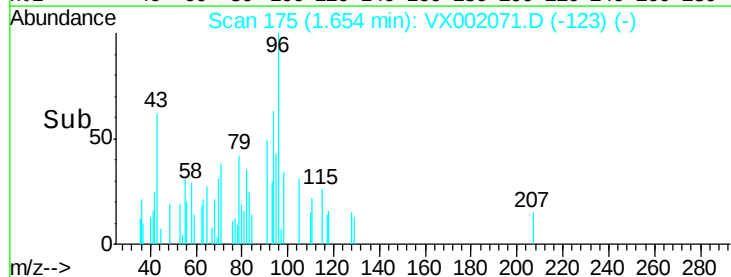
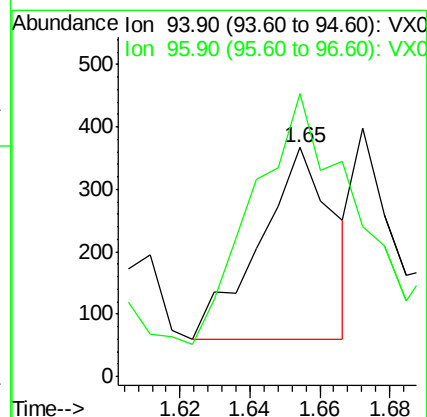
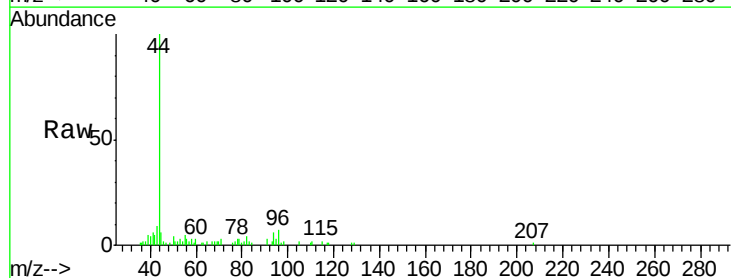
Acq: 27 May 2018 16:25

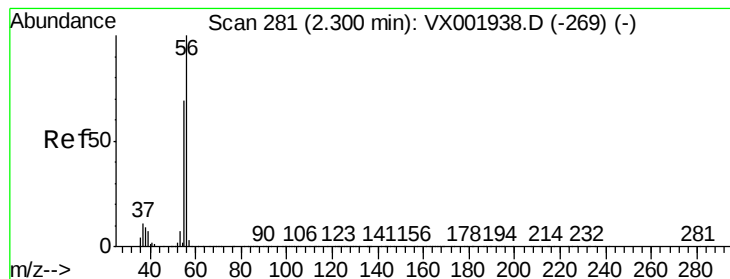
Tgt Ion: 94 Resp: 452

Ion Ratio Lower Upper

94 100

96 130.2 75.9 113.9#





#13

Acrolein

Concen: 0.56 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

Instrument :

MSVOA_X

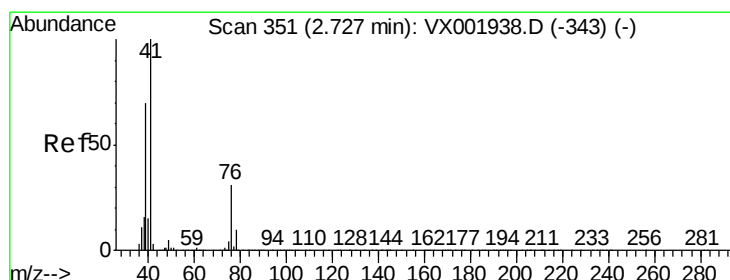
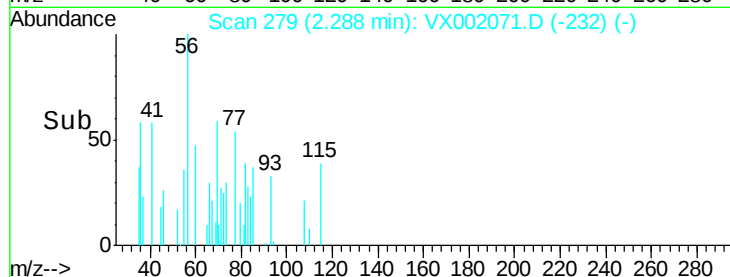
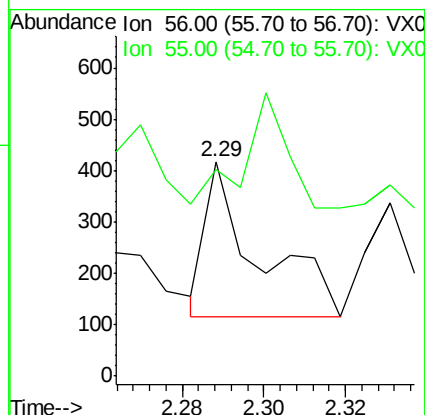
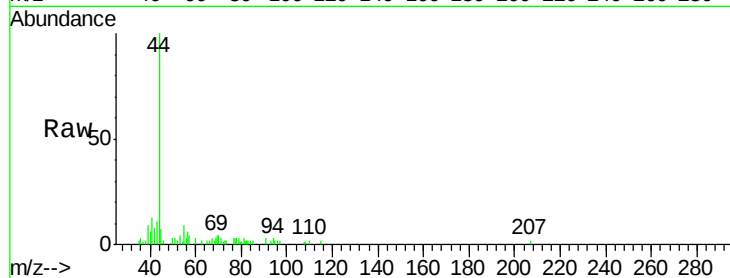
ClientSampleId :

Tot Ion: 56 Resp: 272

Ion Ratio Lower Upper

56 100

55 112.9 56.8 85.2#



#14

Allyl chloride

Concen: 32.10 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.13 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

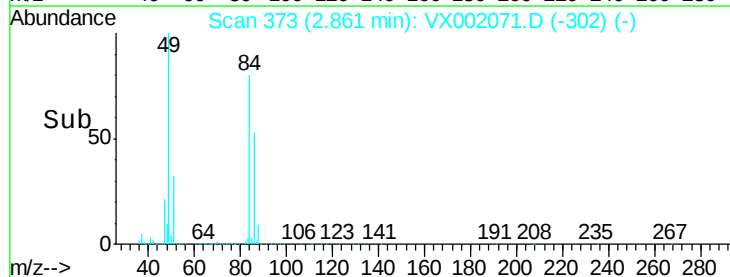
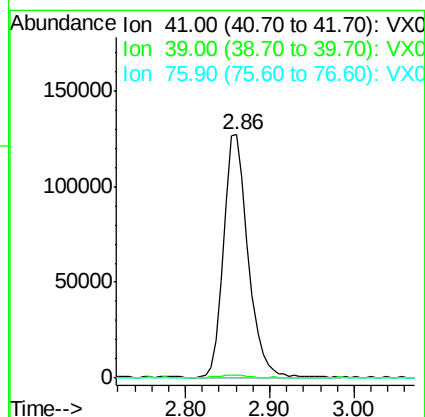
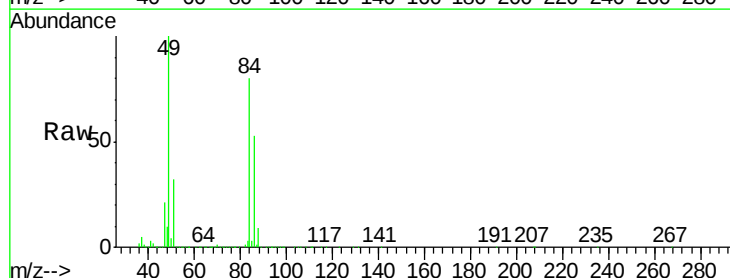
Tgt Ion: 41 Resp: 251639

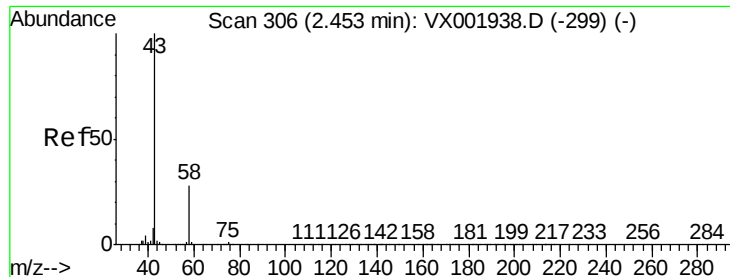
Ion Ratio Lower Upper

41 100

39 1.3 54.3 81.5#

76 0.0 24.2 36.4#





#16

Acetone

Concen: 8.29 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

Instrument :

MSVOA_X

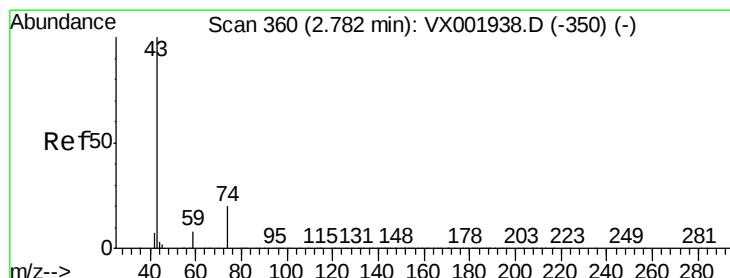
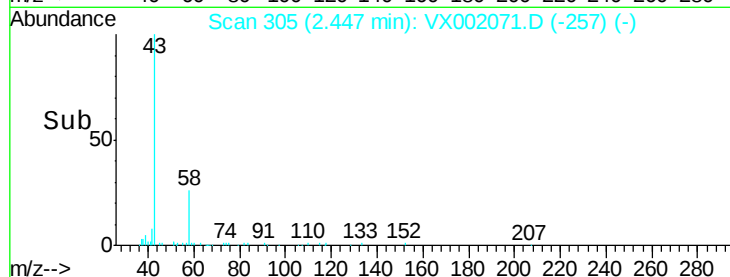
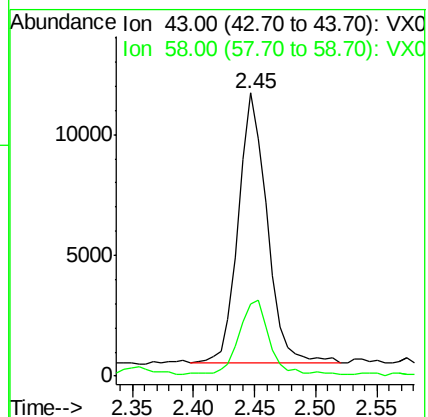
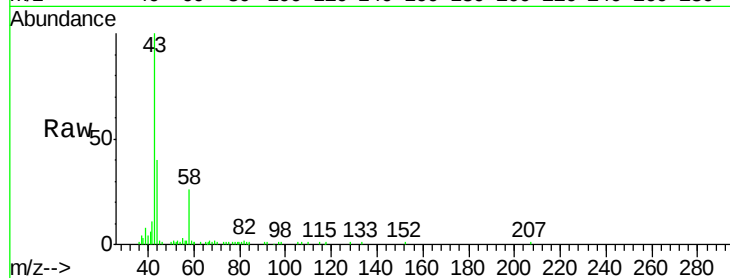
ClientSampleId :

Tot Ion: 43 Resp: 18326

Ion Ratio Lower Upper

43 100

58 26.2 22.3 33.5



#18

Methyl Acetate

Concen: 4.00 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002071.D

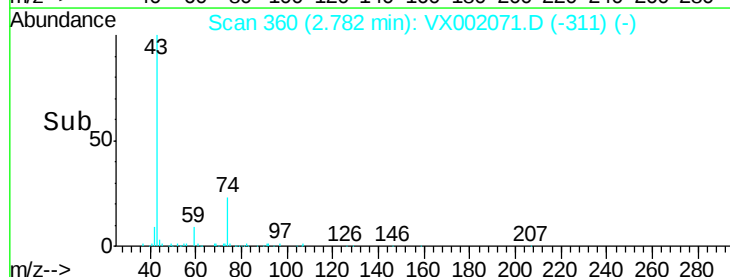
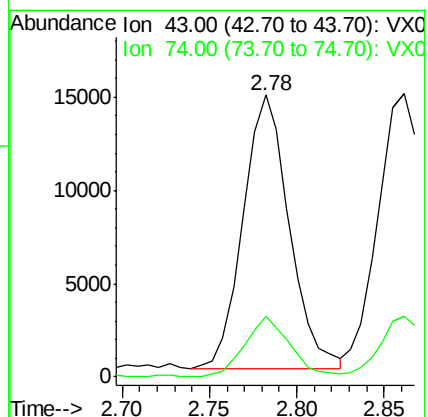
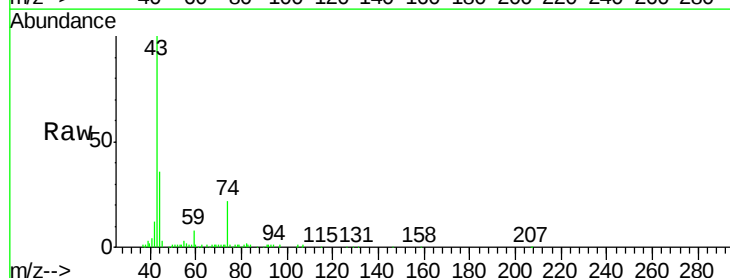
Acq: 27 May 2018 16:25

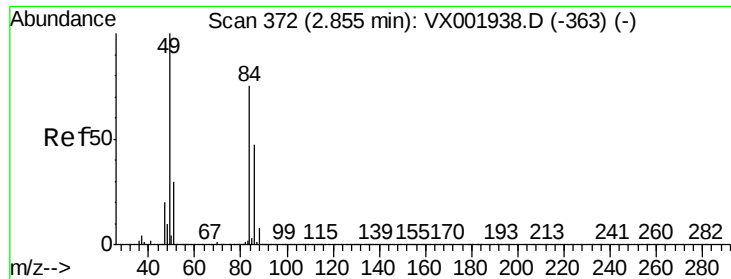
Tgt Ion: 43 Resp: 26890

Ion Ratio Lower Upper

43 100

74 21.6 16.8 25.2



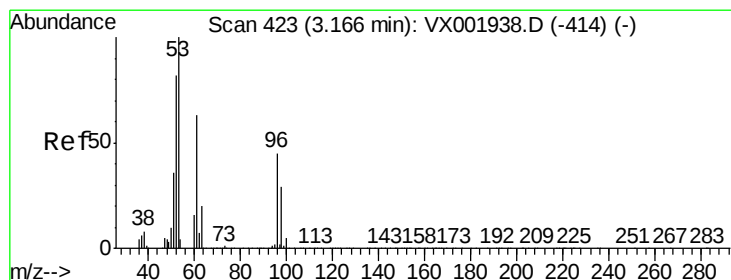
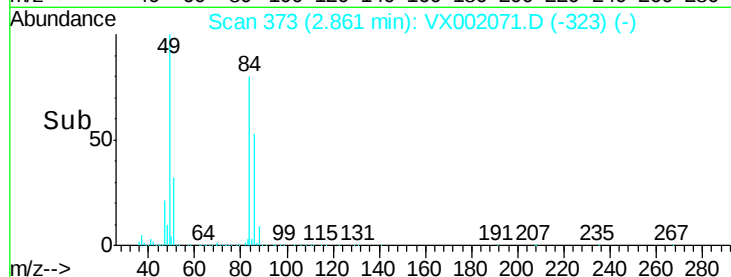
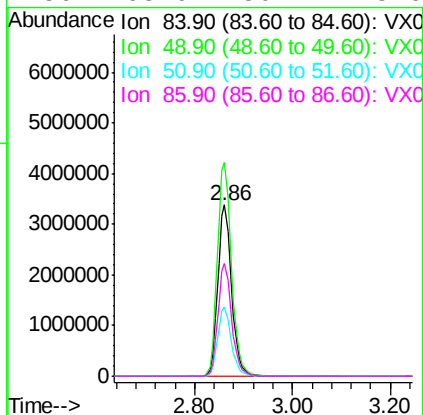
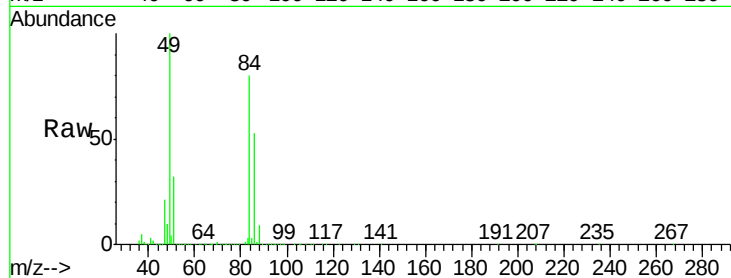


#20
Methvlene Chloride
Concen: 1776.84 ua/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002071.D
Acq: 27 May 2018 16:25

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 6580497

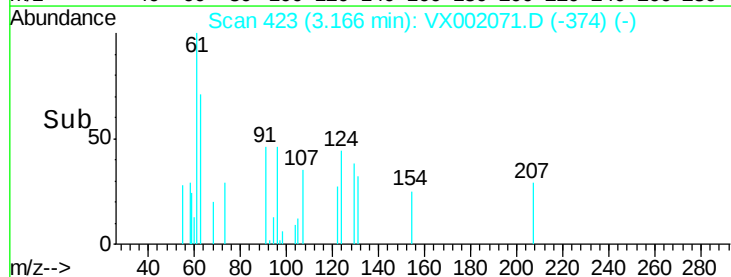
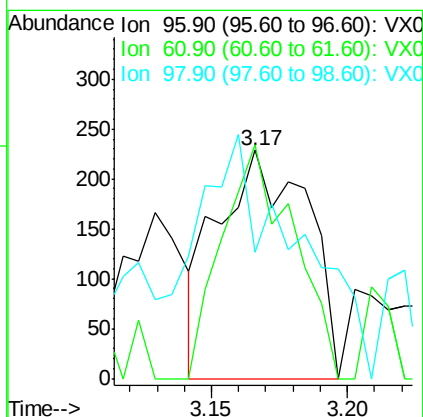
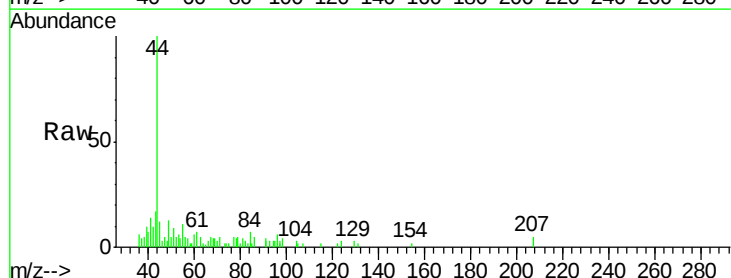
Ion	Ratio	Lower	Upper
84	100		
49	124.9	107.2	160.8
51	40.2	32.4	48.6
86	65.9	50.4	75.6

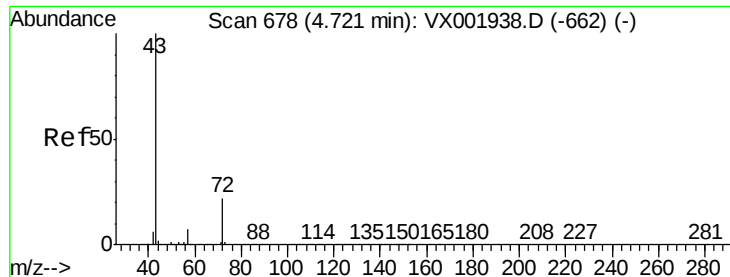


#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX002071.D
Acq: 27 May 2018 16:25

Tgt Ion: 96 Resp: 520

Ion	Ratio	Lower	Upper
96	100		
61	102.2	113.3	169.9#
98	7.4	51.7	77.5#





#25

2-Butanone

Concen: 0.82 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.02 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

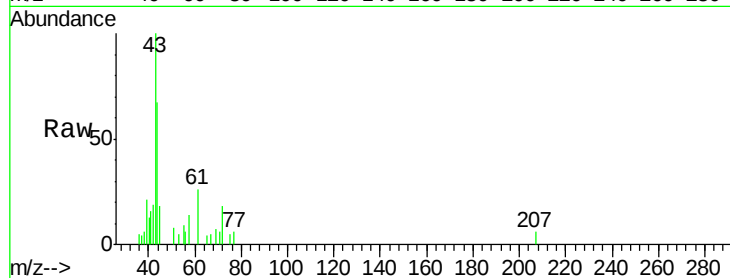
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 3315

Ion Ratio Lower Upper

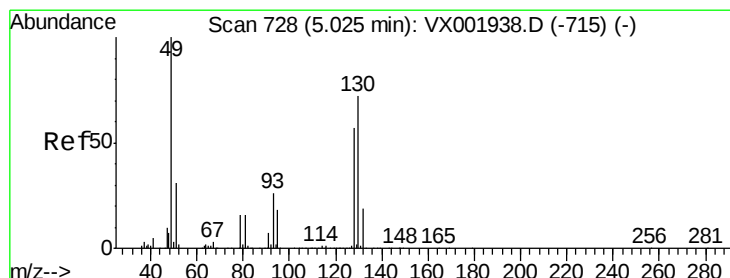
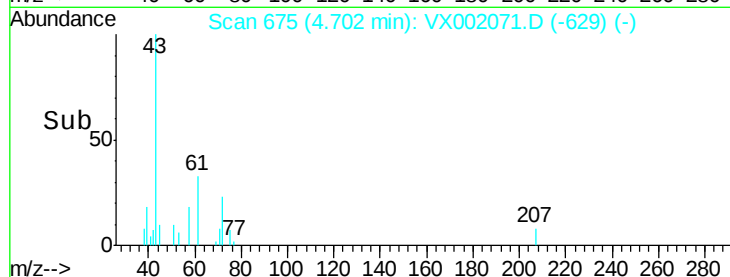
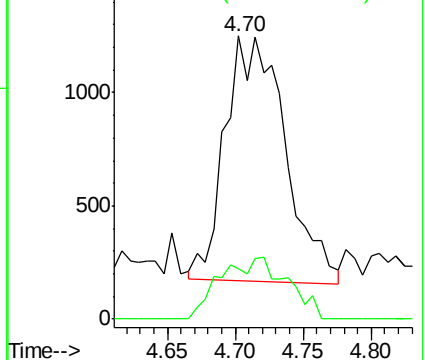
43 100

72 21.6 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

Delta R.T. 0.01 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

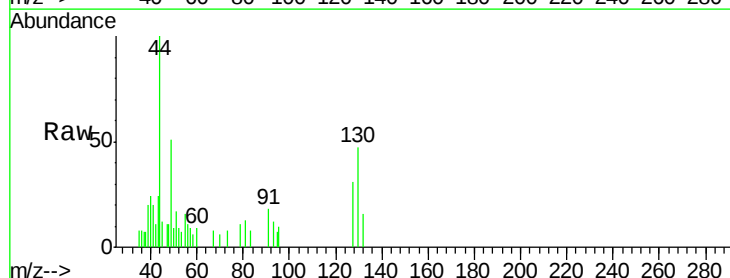
Tgt Ion: 49 Resp: 1491

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

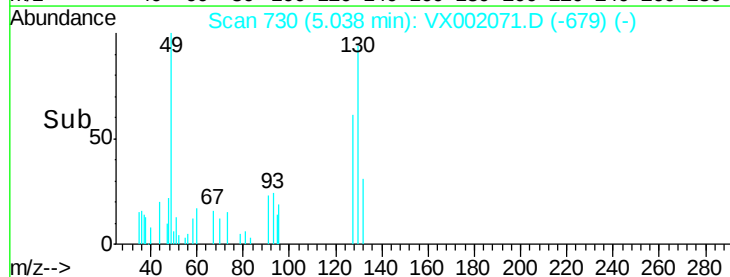
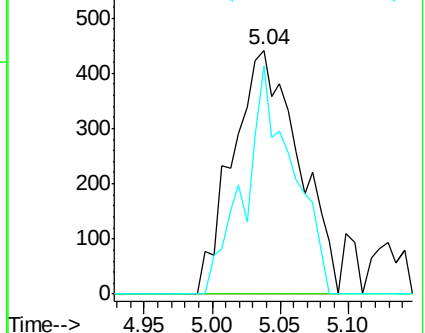
130 68.5 59.4 89.2

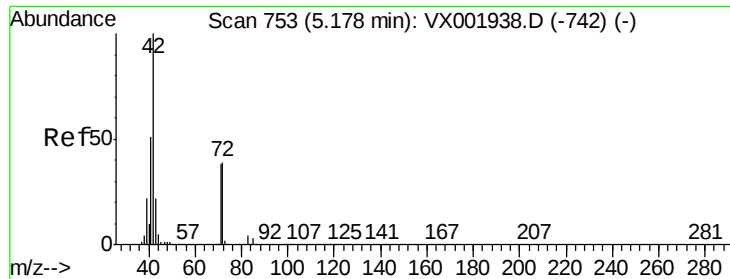


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.54 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX002071.D

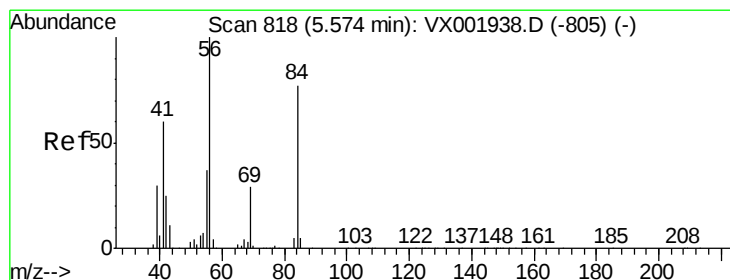
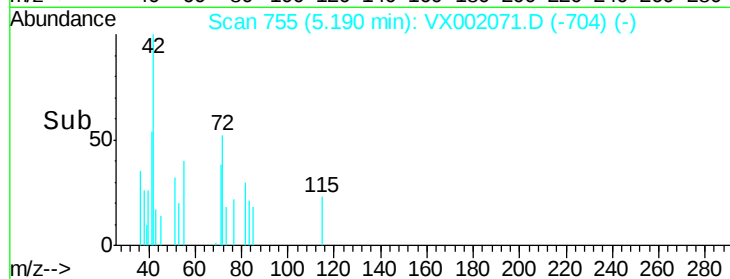
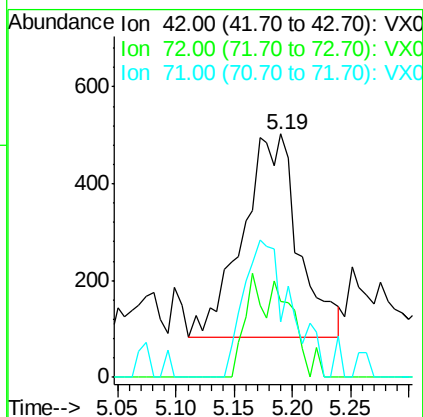
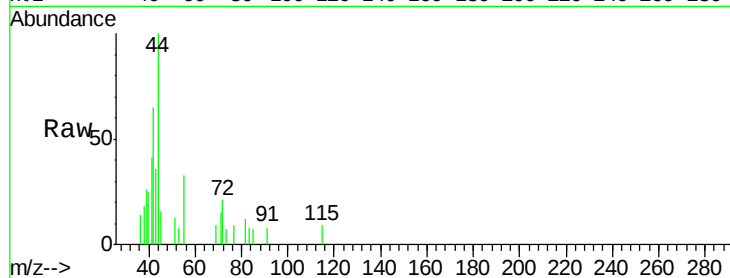
Acq: 27 May 2018 16:25

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	42	Resp:	1412
Ion	Ratio	Lower	Upper
42	100		
72	20.0	31.4	47.0#
71	0.0	29.5	44.3#



#31

Cyclohexane

Concen: 0.83 ug/l

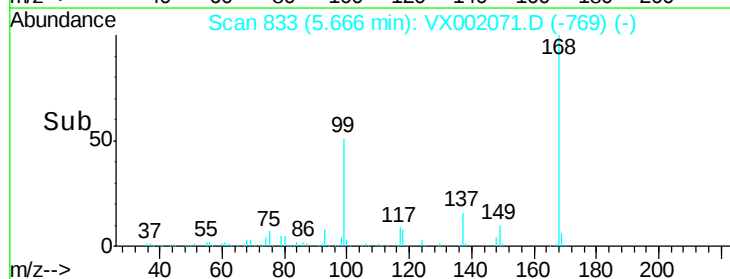
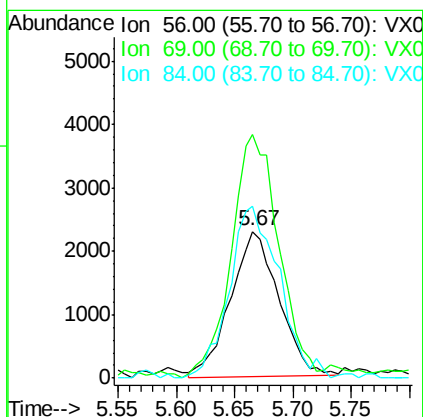
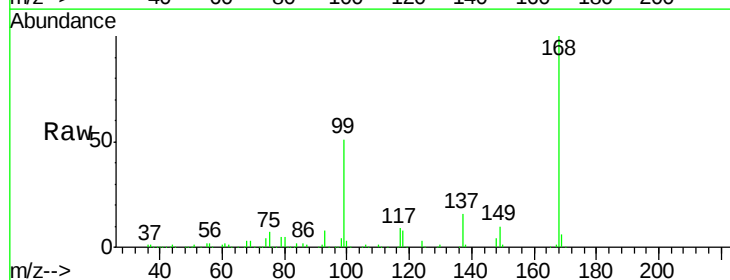
RT: 5.67 min Scan# 833

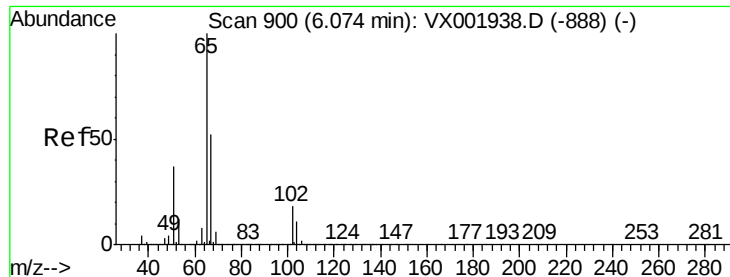
Delta R.T. 0.09 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

Tgt Ion:	56	Resp:	6544
Ion	Ratio	Lower	Upper
56	100		
69	168.7	23.1	34.7#
84	118.6	62.0	93.0#





#33

1,2-Dichloroethane-d4

Concen: 37.23 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

Instrument :

MSVOA_X

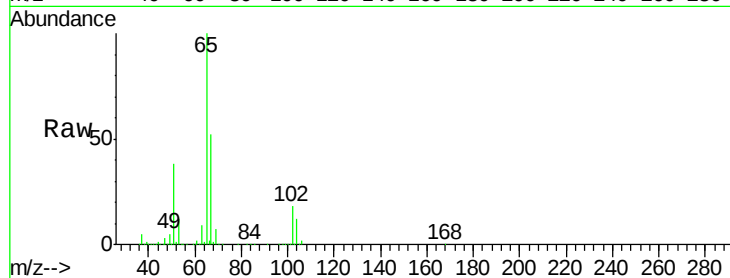
ClientSampleId :

Tot Ion: 65 Resp: 213269

Ion Ratio Lower Upper

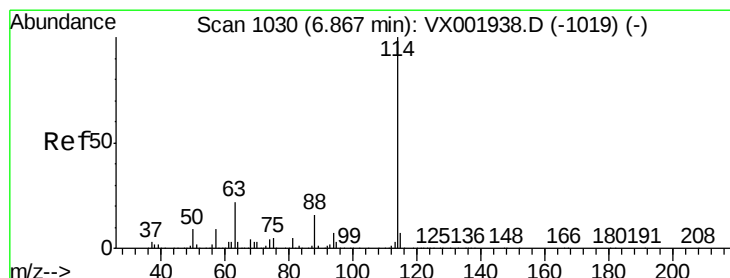
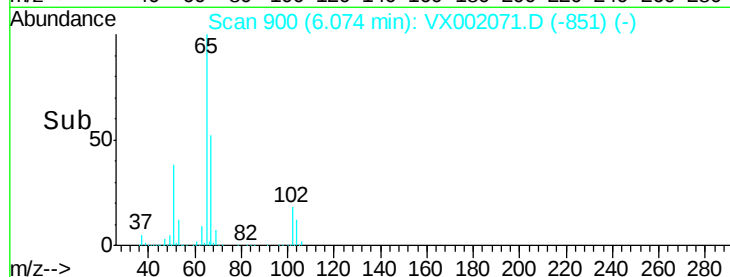
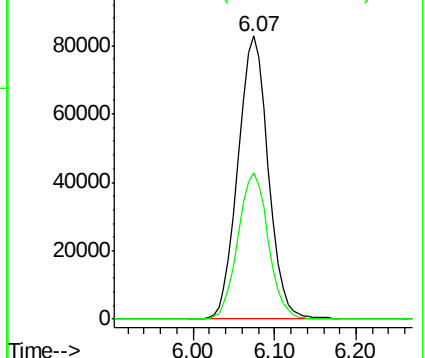
65 100

67 51.9 0.0 104.0



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: VX002071.D

Acq: 27 May 2018 16:25

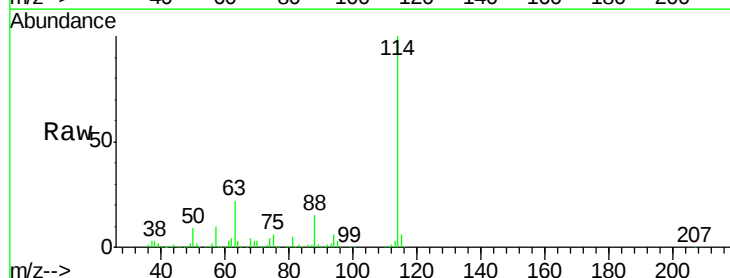
Tgt Ion: 114 Resp: 454749

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

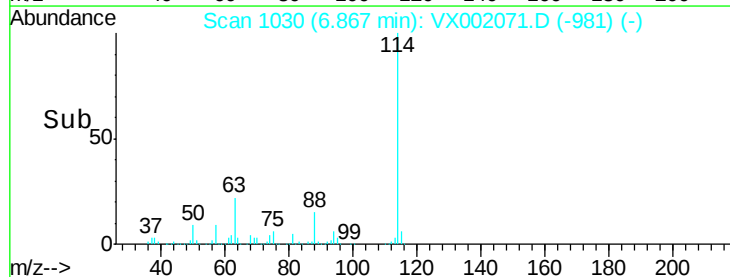
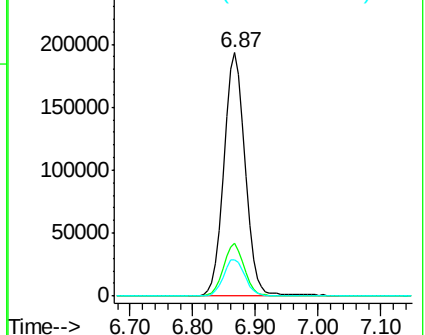
88 15.1 0.0 31.6

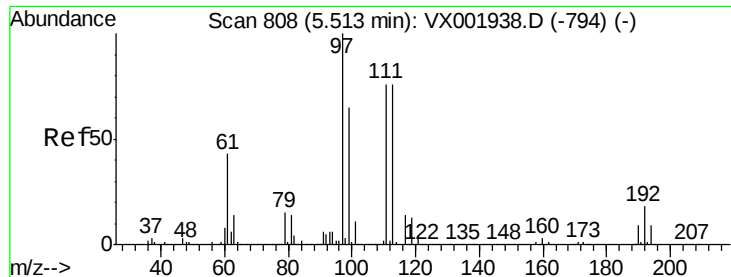


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

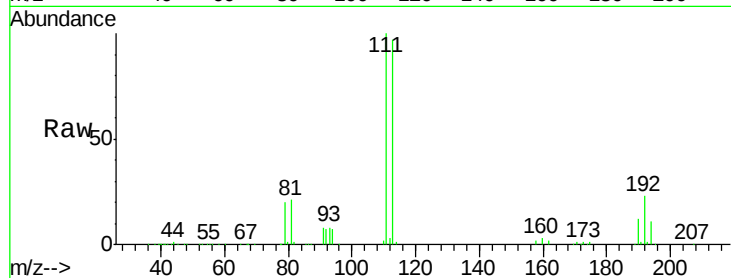




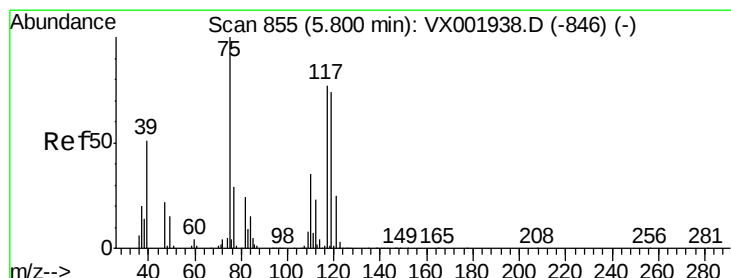
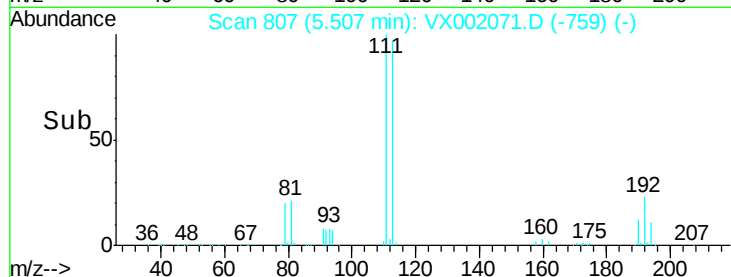
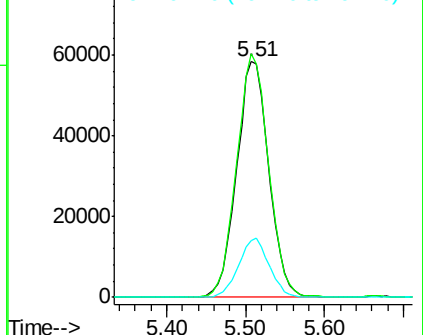
#35
 Dibromofluoromethane
 Concen: 36.51 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.01 min
 Lab File: VX002071.D
 Acq: 27 May 2018 16:25

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.0	123.0
192	23.9	18.9	28.3

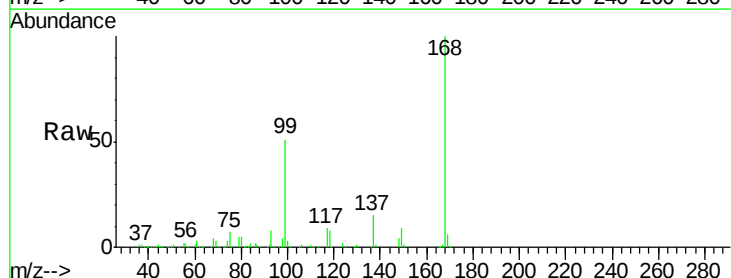


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

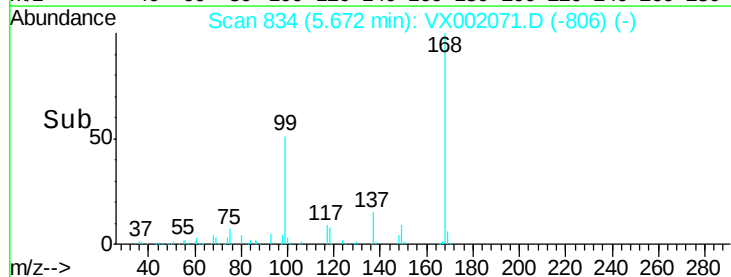
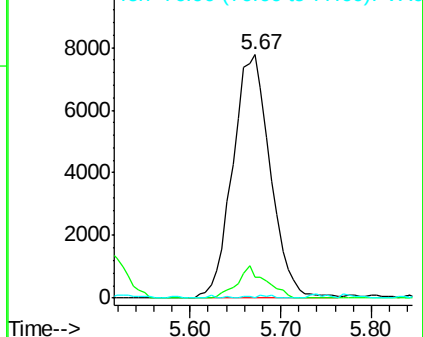


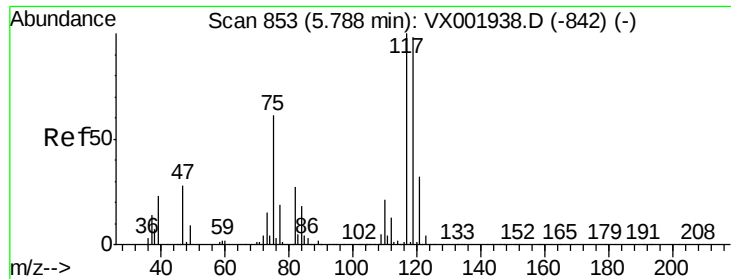
#36
 1,1-Dichloropropene
 Concen: 3.53 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002071.D
 Acq: 27 May 2018 16:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	17.4	52.2#
77	0.0	24.4	36.6#



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

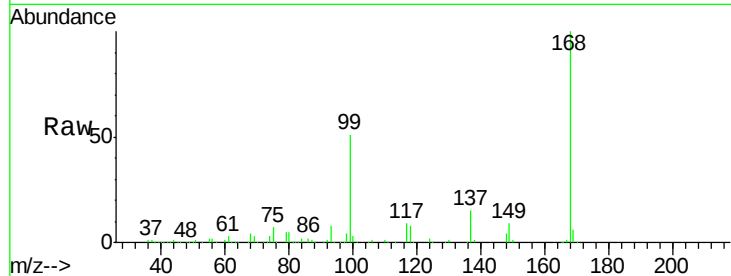




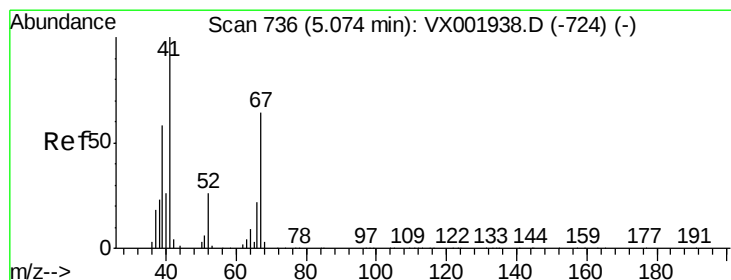
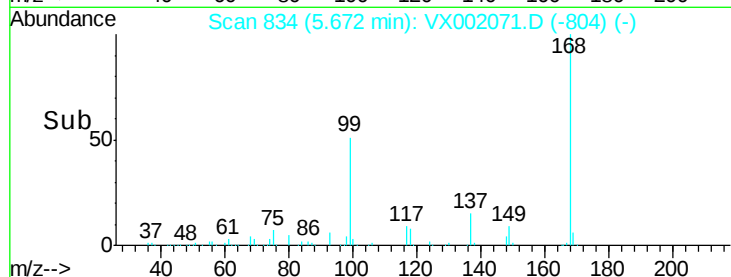
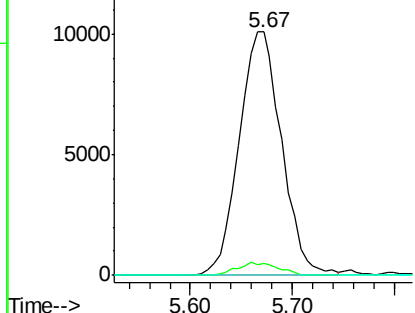
#38
Carbon Tetrachloride
Concen: 3.94 ua/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX002071.D
Acq: 27 May 2018 16:25

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 29079
Ion Ratio Lower Upper
117 100
119 5.0 78.5 117.7#
121 0.0 25.5 38.3#

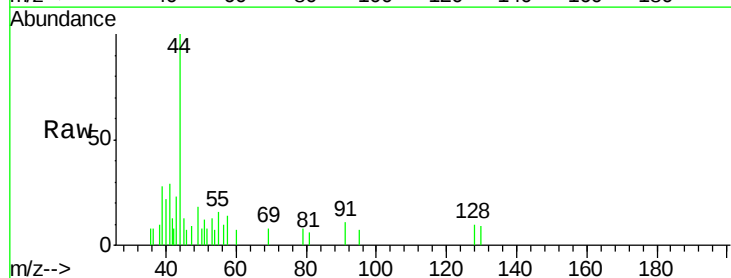


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

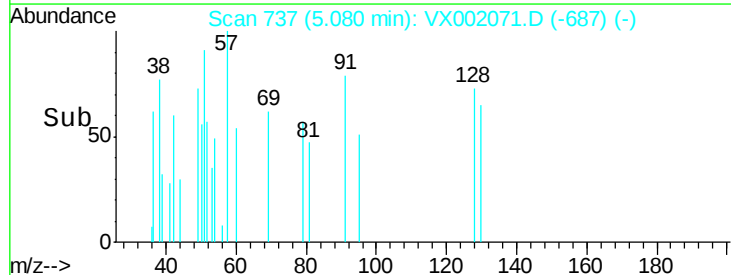
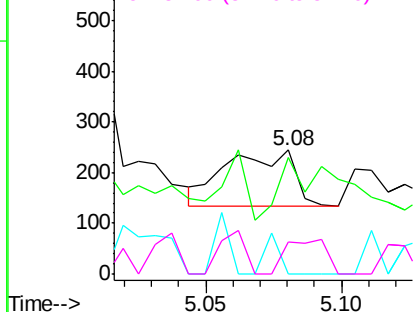


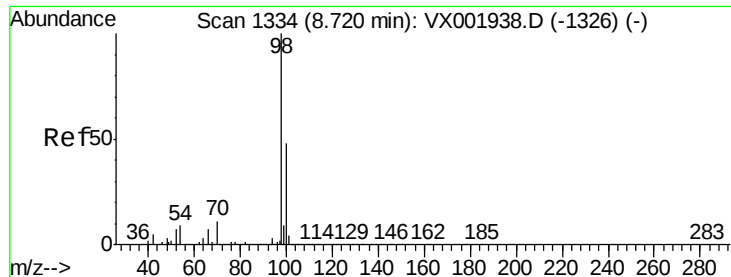
#41
Methacrylonitrile
Concen: Below Cal
RT: 5.08 min Scan# 737
Delta R.T. 0.01 min
Lab File: VX002071.D
Acq: 27 May 2018 16:25

Tgt Ion: 41 Resp: 191
Ion Ratio Lower Upper
41 100
39 40.3 46.0 69.0#
67 15.7 50.6 75.8#
52 36.6 21.9 32.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0

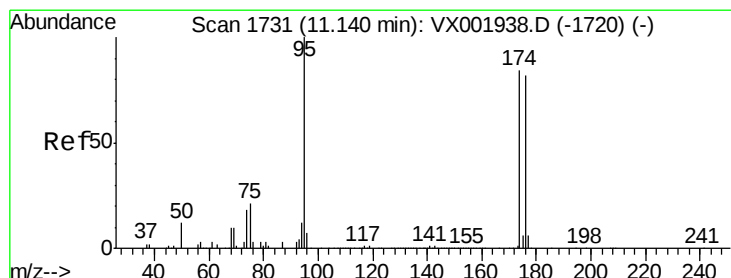
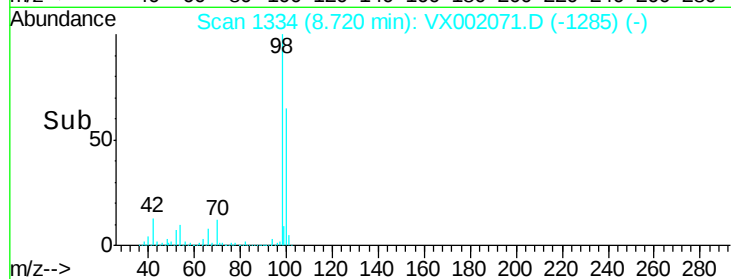
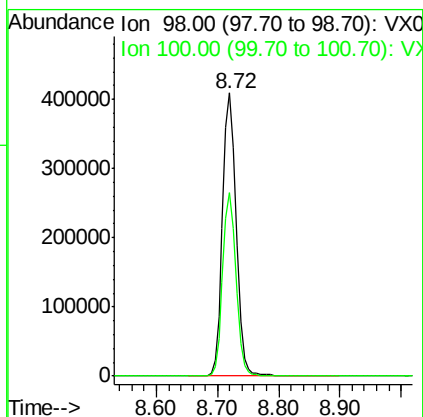
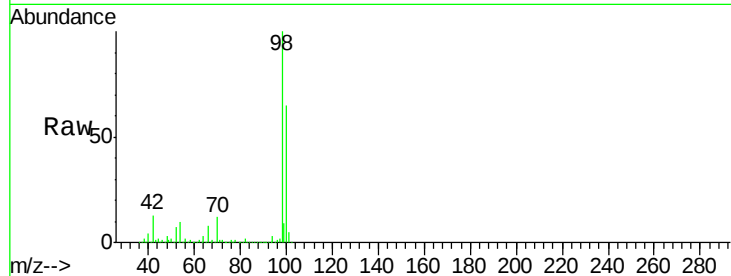




#50
Toluene-d8
Concen: 39.03 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002071.D
Acq: 27 May 2018 16:25

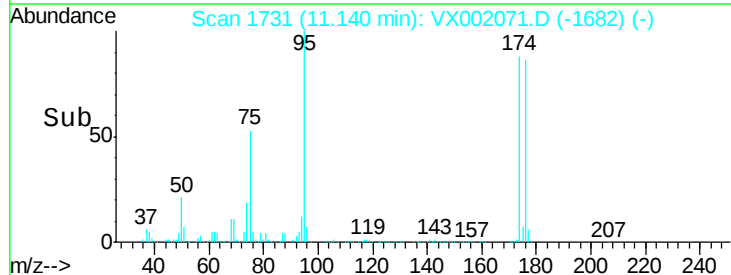
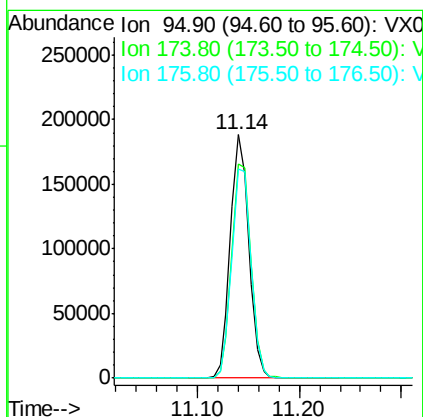
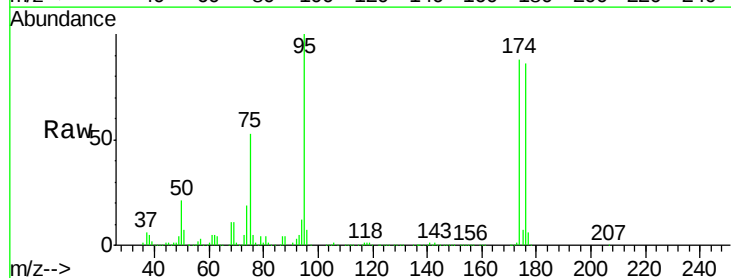
Instrument :
MSVOA_X
ClientSampleId :

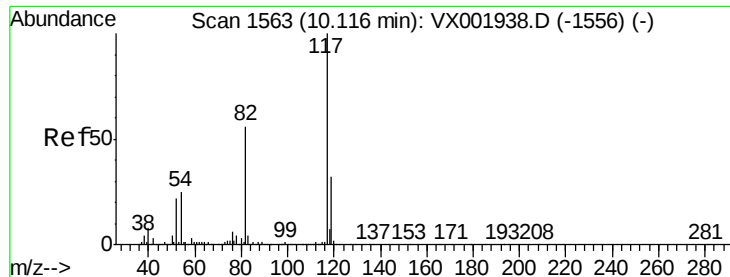
Tot Ion: 98 Resp: 642613
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3



#62
4-Bromofluorobenzene
Concen: 36.57 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002071.D
Acq: 27 May 2018 16:25

Tgt Ion: 95 Resp: 235554
Ion Ratio Lower Upper
95 100
174 91.9 0.0 178.8
176 89.9 0.0 175.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

Instrument :

MSVOA_X

ClientSampleId :

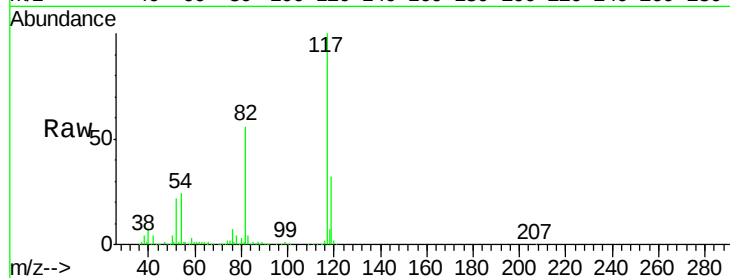
Tot Ion:117 Resp: 412675

Ion Ratio Lower Upper

117 100

82 56.4 44.8 67.2

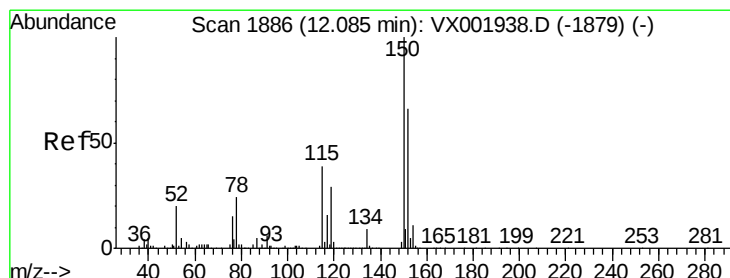
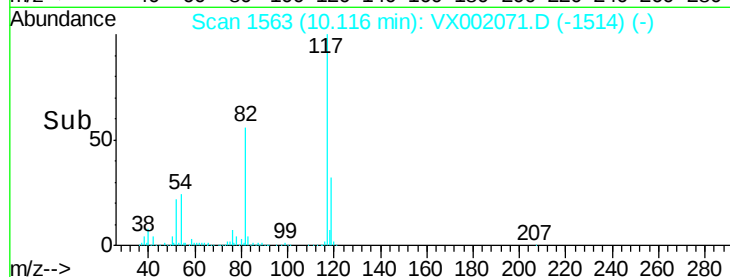
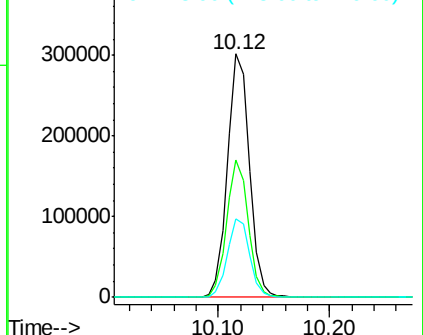
119 32.4 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): 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: VX002071.D

Acq: 27 May 2018 16:25

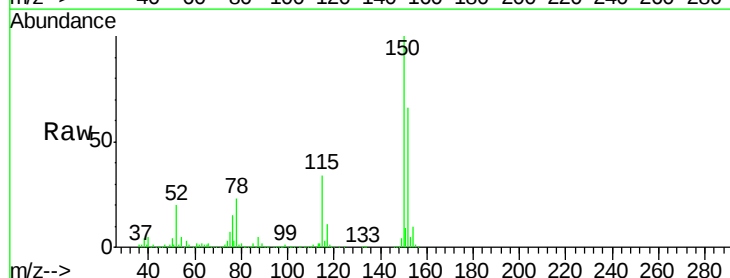
Tgt Ion:152 Resp: 236568

Ion Ratio Lower Upper

152 100

115 55.5 42.3 126.8

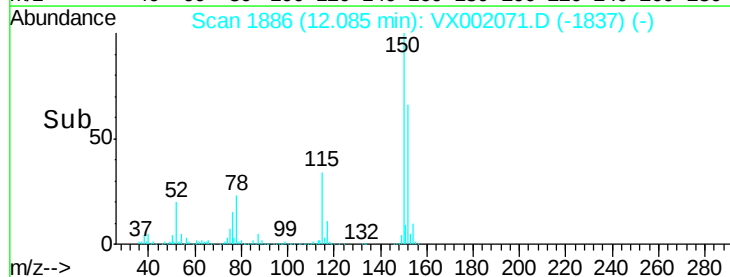
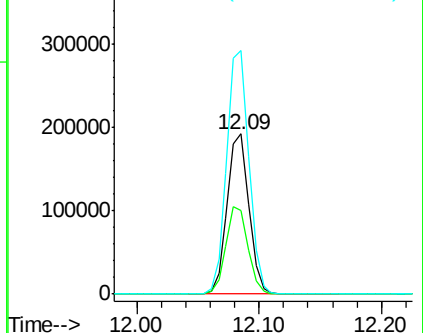
150 155.1 0.0 351.0

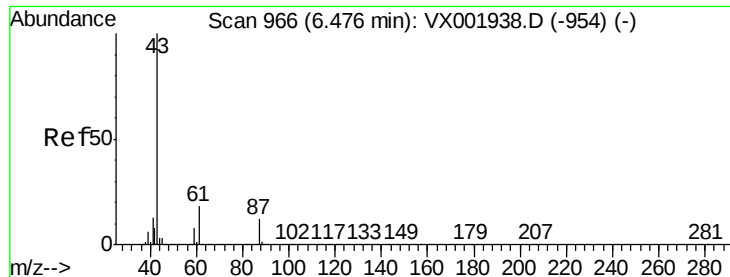


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

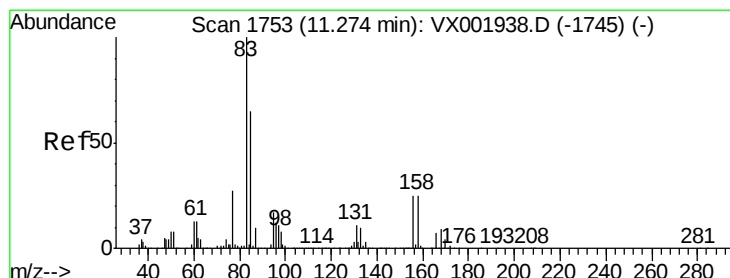
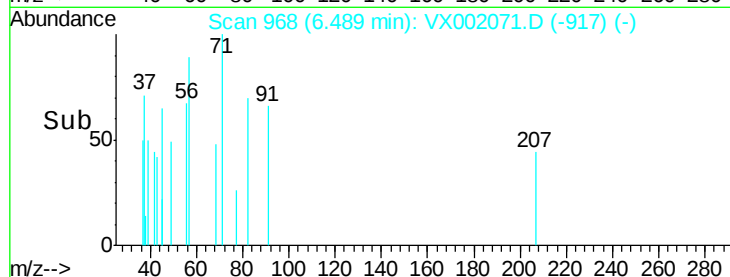
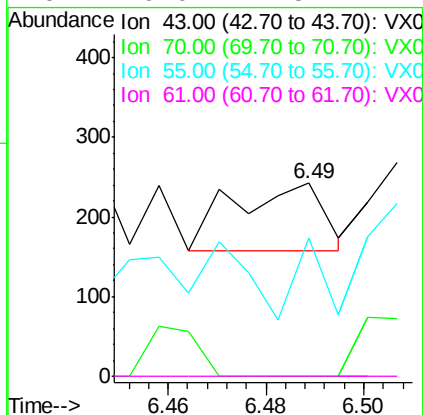
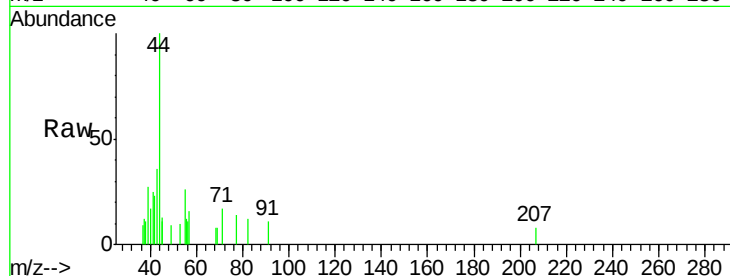
Delta R.T. 0.01 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	43	Resp:	106
Ion	Ratio	Lower	Upper
43	100		
70	50.9	0.1	0.1#
55	174.5	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

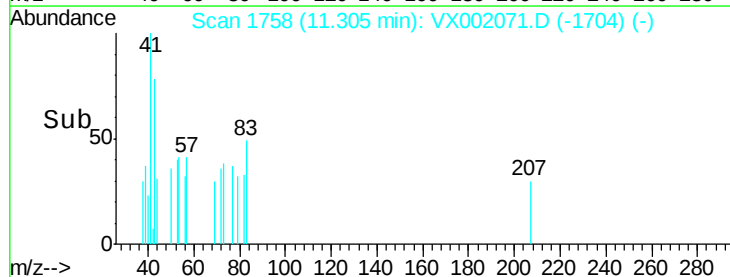
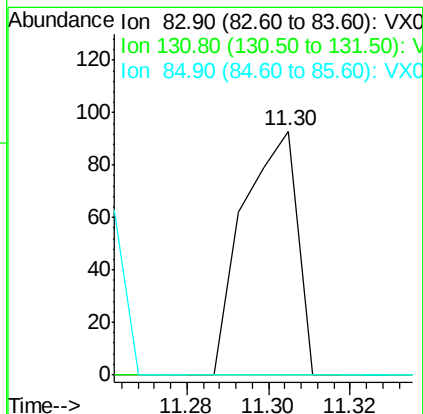
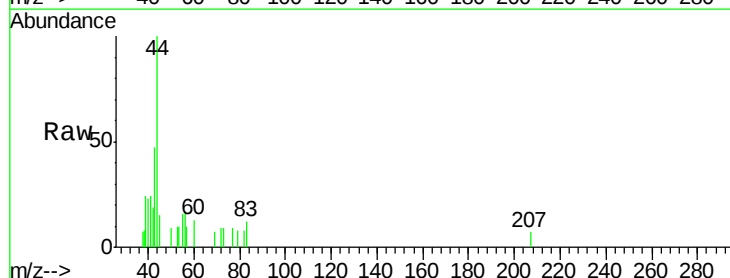
RT: 11.30 min Scan# 1758

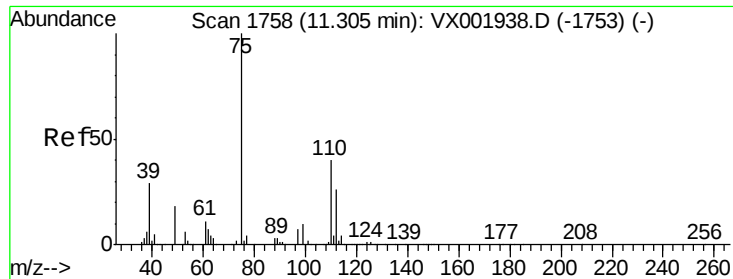
Delta R.T. 0.03 min

Lab File: VX002071.D

Acq: 27 May 2018 16:25

Tgt Ion:	83	Resp:	86
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.0#
85	0.0	32.6	97.7#

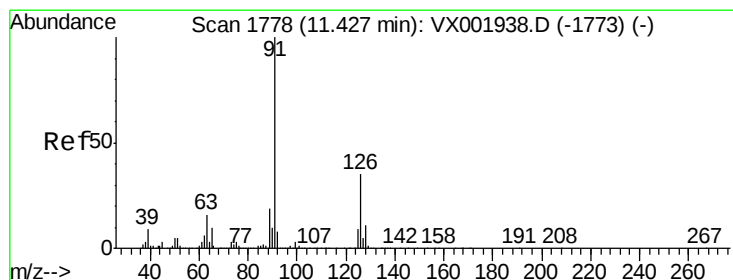
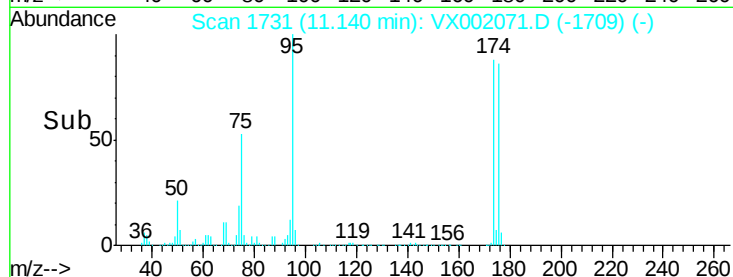
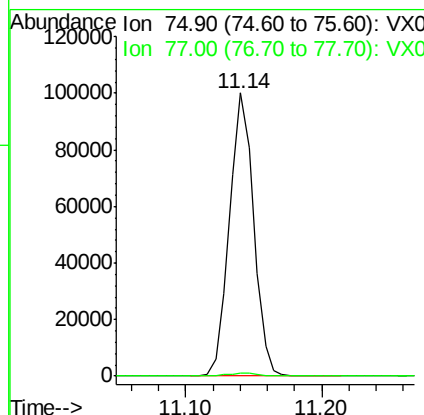
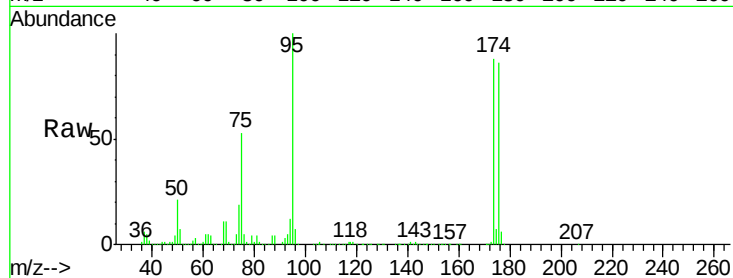




#76
 1,2,3-Trichloropropane
 Concen: 21.84 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002071.D
 Acq: 27 May 2018 16:25

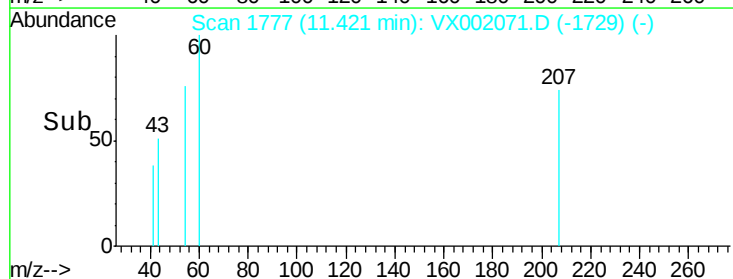
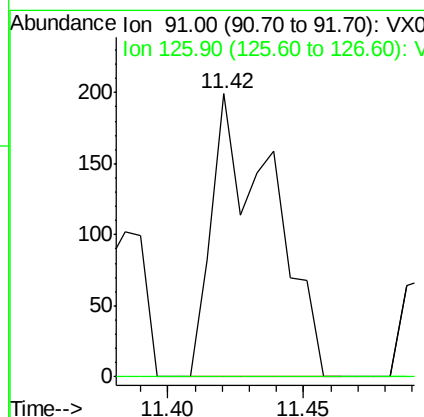
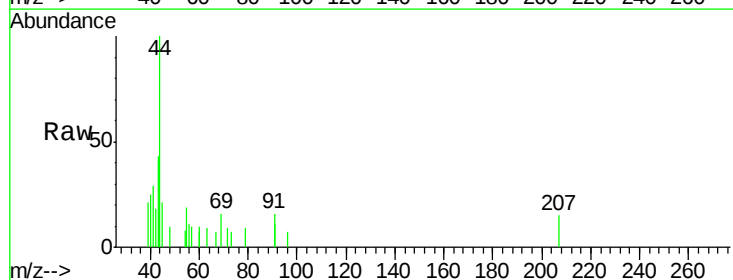
Instrument :
 MSVOA_X
 ClientSampleId :

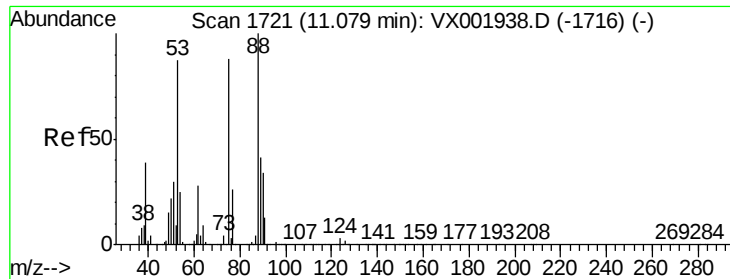
Tot Ion: 75 Resp: 124128
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.42 min Scan# 1777
 Delta R.T. -0.01 min
 Lab File: VX002071.D
 Acq: 27 May 2018 16:25

Tgt Ion: 91 Resp: 306
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.4 52.2#

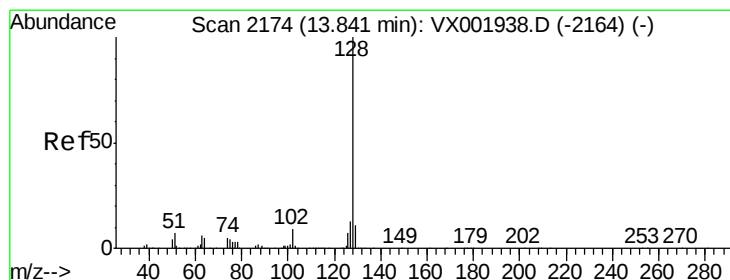
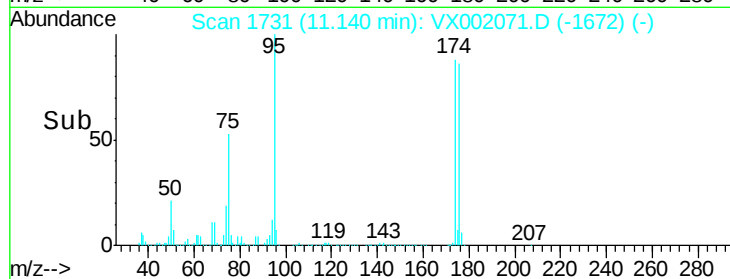
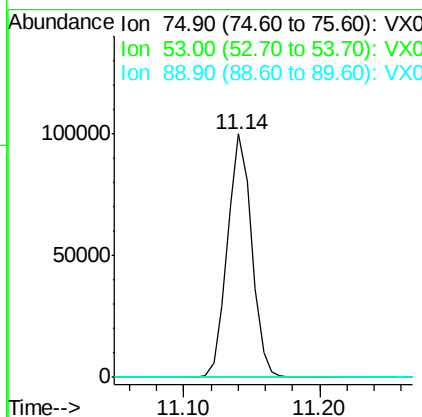
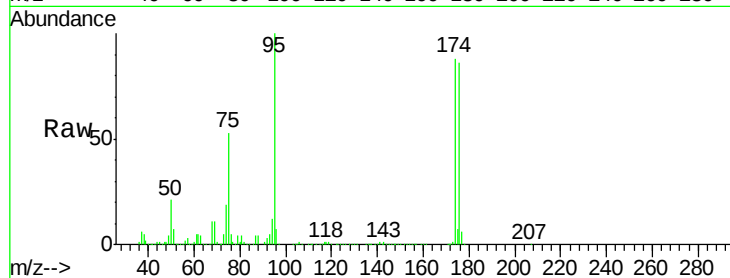




#81
trans-1,4-Dichloro-2-butene
Concen: 52.50 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002071.D
Acq: 27 May 2018 16:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 124128
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 39.4 59.2#



#95
Naphthalene
Concen: 0.35 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX002071.D
Acq: 27 May 2018 16:25

Tgt Ion:128 Resp: 7460
Ion Ratio Lower Upper
128 100
127 15.1 10.4 15.6
129 11.6 8.8 13.2

