

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002072.D
 Acq On : 27 May 2018 16:52
 Operator : JC/MD
 Sample : J3099-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 02:57:29 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	320306	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	453676	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	408944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	230675	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	210769	36.81	ug/l	0.00
Spiked Amount			Recovery	=	73.62%	
35) Dibromofluoromethane	5.51	113	163412	36.02	ug/l	0.00
Spiked Amount			Recovery	=	72.04%	
50) Toluene-d8	8.72	98	642644	39.13	ug/l	0.00
Spiked Amount			Recovery	=	78.26%	
62) 4-Bromofluorobenzene	11.14	95	232265	36.14	ug/l	0.00
Spiked Amount			Recovery	=	72.28%	

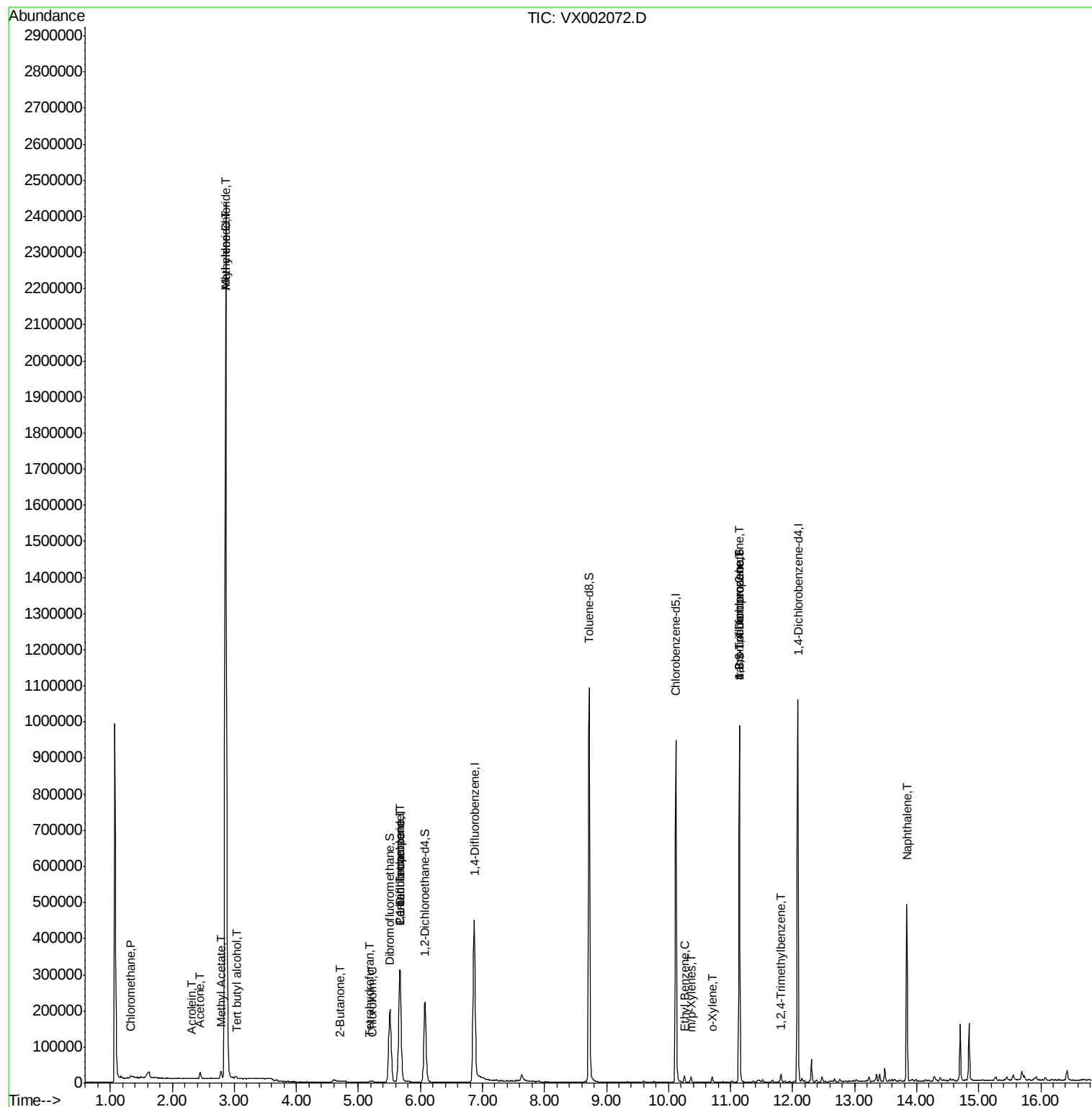
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	20	Below Cal	#	41
3) Chloromethane	1.33	50	3860	0.78	ug/l	97
5) Bromomethane	1.65	94	636	Below Cal		81
11) Tert butyl alcohol	3.03	59	3133	2.79	ug/l #	76
13) Acrolein	2.31	56	196	0.40	ug/l #	65
14) Allyl chloride	2.86	41	43201	5.51	ug/l #	26
16) Acetone	2.45	43	18709	8.47	ug/l	100
18) Methyl Acetate	2.78	43	24140	3.48	ug/l	96
20) Methylene Chloride	2.86	84	1110653	298.59	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	221	Below Cal	#	46
25) 2-Butanone	4.71	43	3223	0.80	ug/l #	88
28) Bromochloromethane	5.03	49	176	Below Cal	#	75
29) Tetrahydrofuran	5.17	42	545	0.21	ug/l #	23
30) Chloroform	5.23	83	3095	0.36	ug/l	100
36) 1,1-Dichloropropene	5.66	75	22116	3.50	ug/l #	46
38) Carbon Tetrachloride	5.67	117	29950	4.07	ug/l #	14
41) Methacrylonitrile	5.04	41	108	Below Cal	#	35
67) Ethyl Benzene	10.26	91	9188	0.41	ug/l #	81
68) m/p-Xylenes	10.37	106	3397	0.39	ug/l	96
69) o-Xylene	10.71	106	3369	0.39	ug/l	97
74) N-amyl acetate	6.48	43	248	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.27	83	54	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	122588	22.13	ug/l #	33
79) 2-Chlorotoluene	11.52	91	583	Below Cal		87
81) trans-1,4-Dichloro-2-buten	11.14	75	122588	53.18	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	9300	0.54	ug/l	97
95) Naphthalene	13.84	128	302291	14.51	ug/l	100

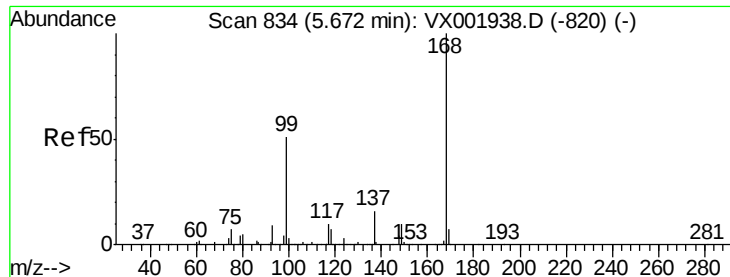
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Instrument :

MSVOA_X

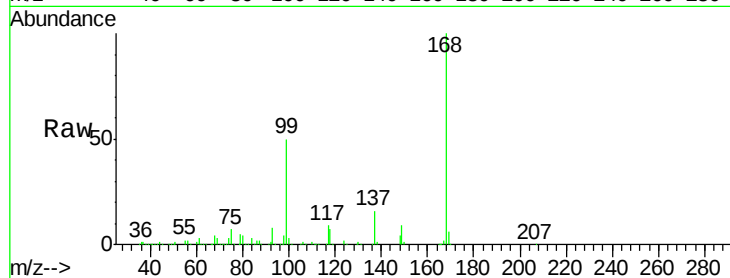
ClientSampleId :

Tot Ion:168 Resp: 320306

Ion Ratio Lower Upper

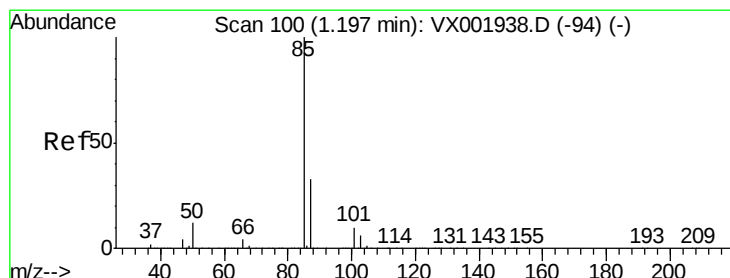
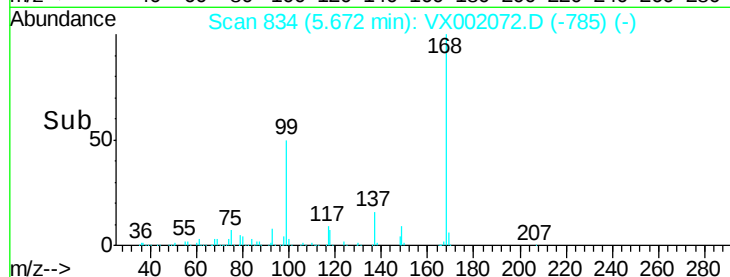
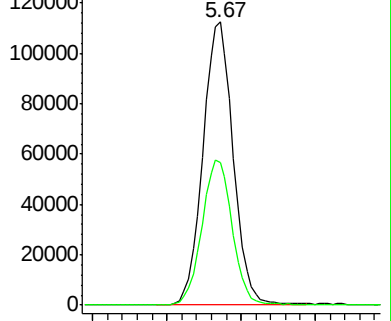
168 100

99 50.2 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: VX002072.D

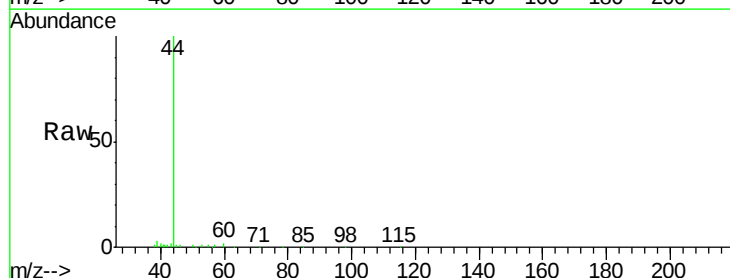
Acq: 27 May 2018 16:52

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

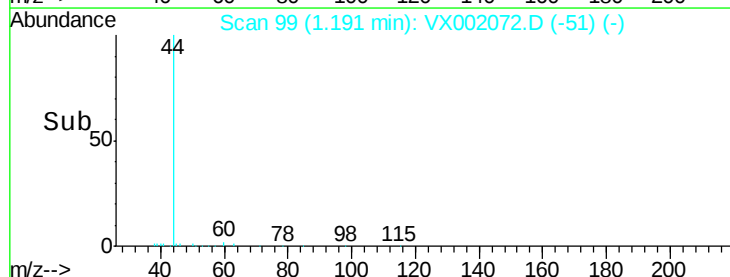
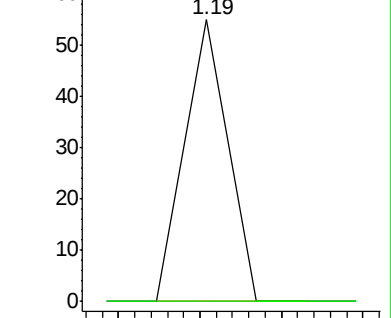
85 100

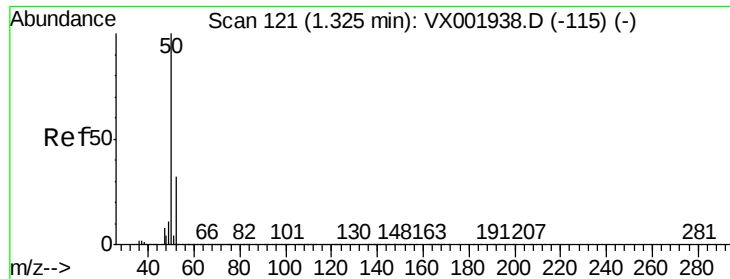
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.78 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Instrument :

MSVOA_X

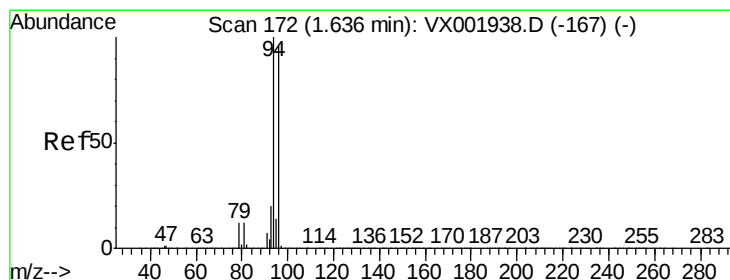
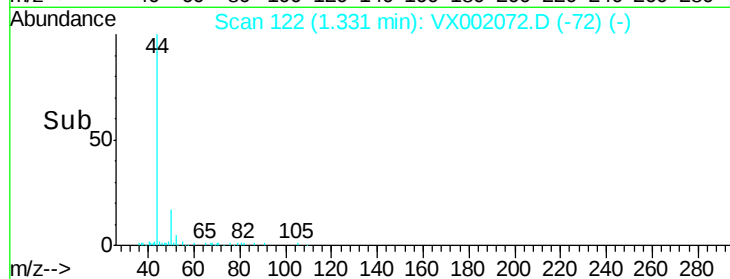
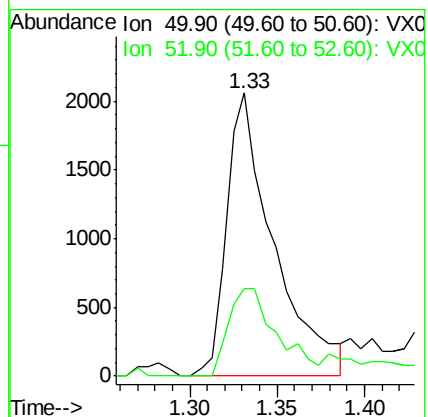
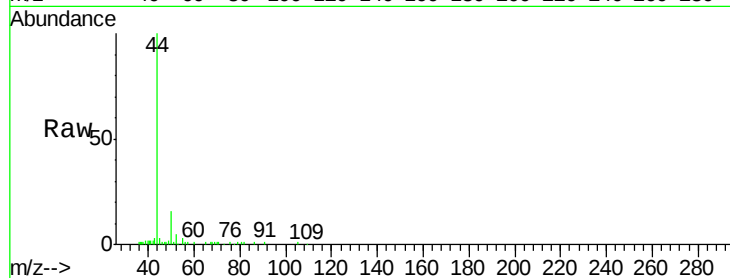
ClientSampleId :

Tot Ion: 50 Resp: 3860

Ion Ratio Lower Upper

50 100

52 31.0 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002072.D

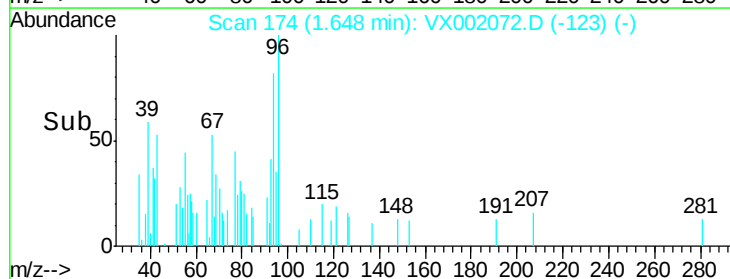
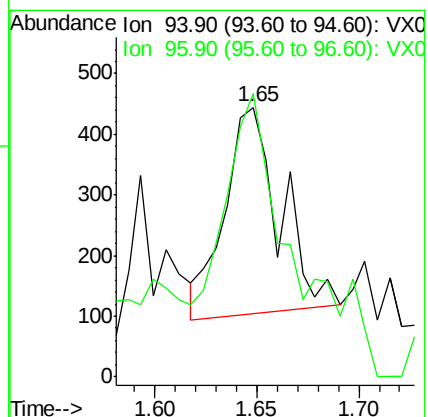
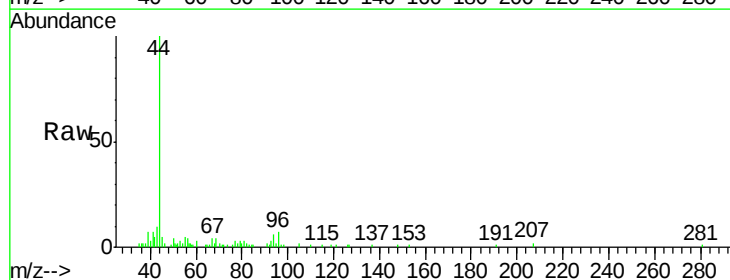
Acq: 27 May 2018 16:52

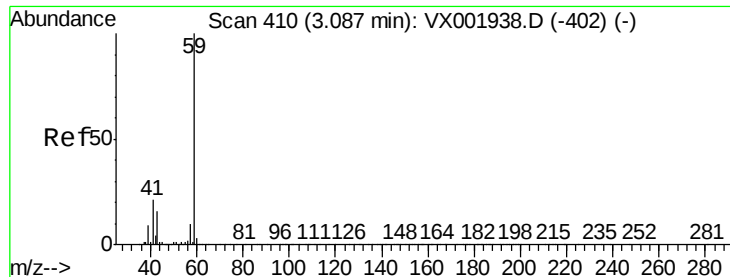
Tgt Ion: 94 Resp: 636

Ion Ratio Lower Upper

94 100

96 113.6 75.9 113.9



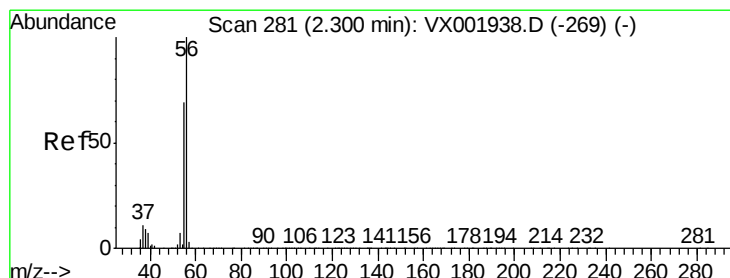
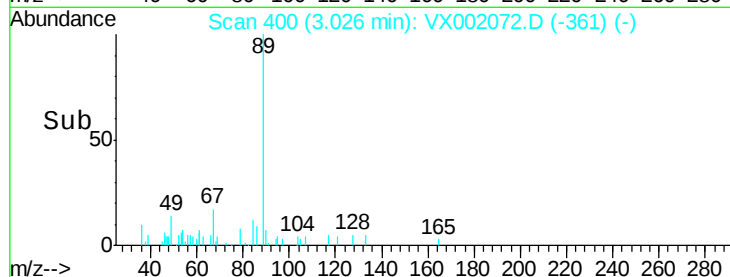
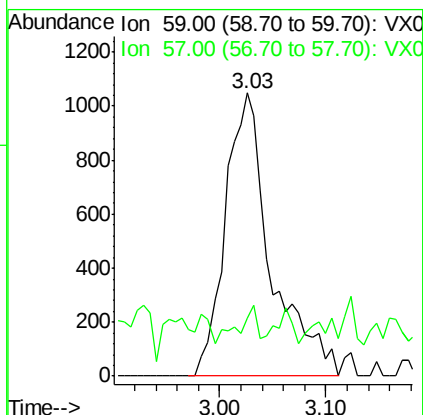
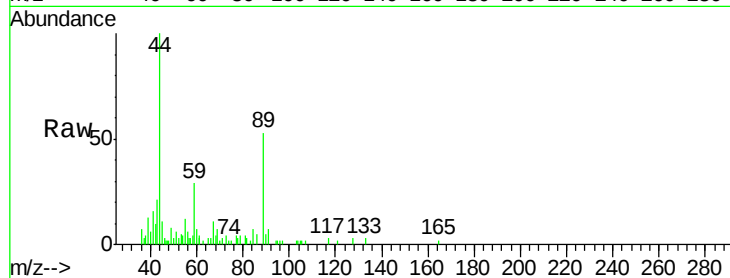


#11

Tert butyl alcohol
 Concen: 2.79 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.06 min
 Lab File: VX002072.D
 Acq: 27 May 2018 16:52

Instrument :
 MSVOA_X
 ClientSampleId :

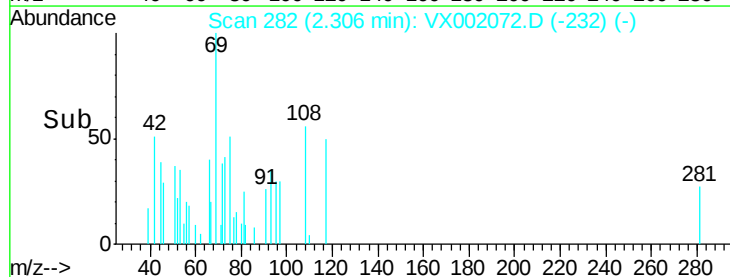
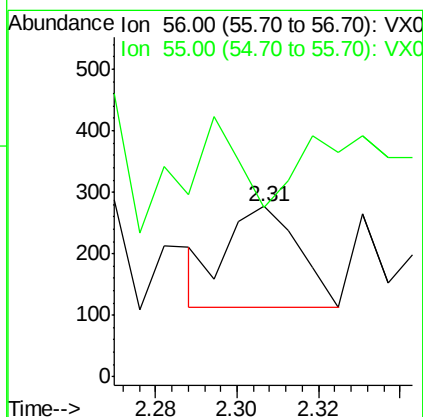
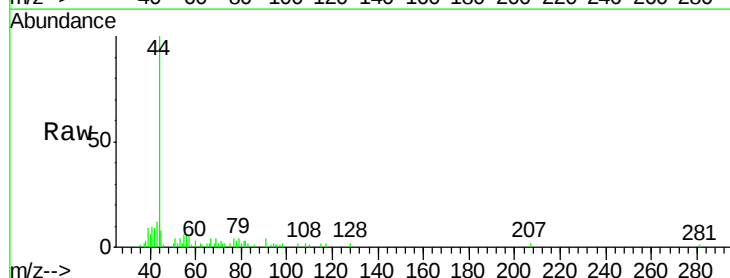
Tot Ion: 59 Resp: 3133
 Ion Ratio Lower Upper
 59 100
 57 2.1 8.9 13.3#

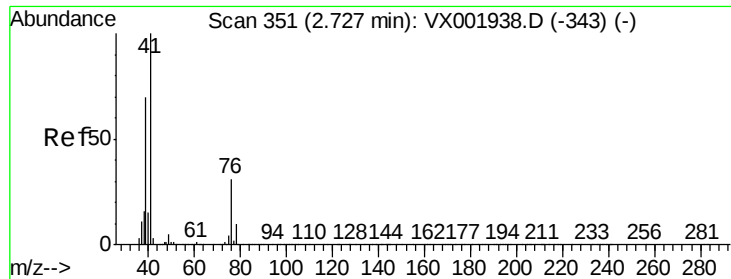


#13

Acrolein
 Concen: 0.40 ug/l
 RT: 2.31 min Scan# 282
 Delta R.T. 0.01 min
 Lab File: VX002072.D
 Acq: 27 May 2018 16:52

Tgt Ion: 56 Resp: 196
 Ion Ratio Lower Upper
 56 100
 55 41.8 56.8 85.2#

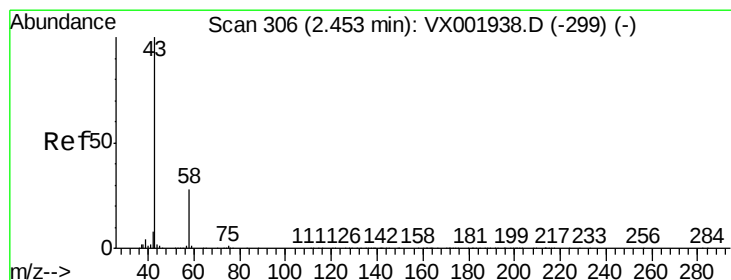
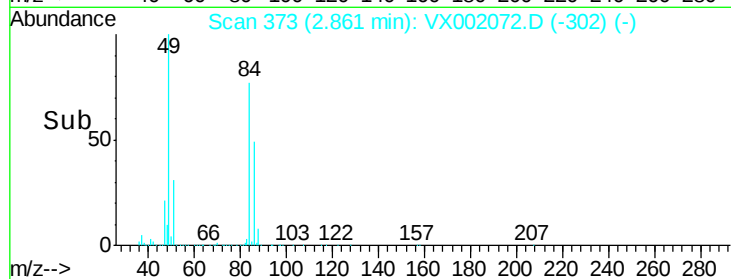
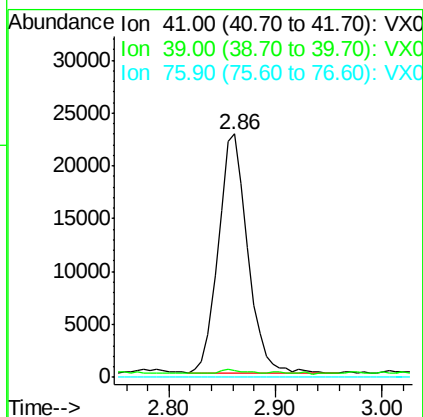
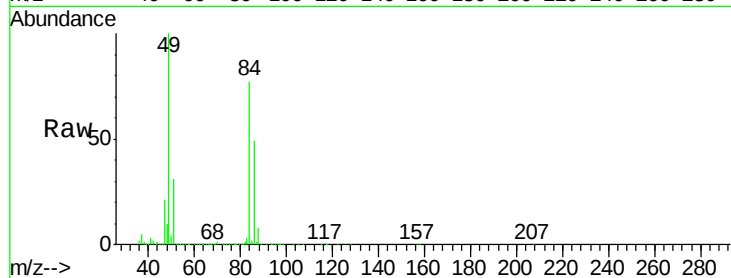




#14
Allvl chloride
Concen: 5.51 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.13 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

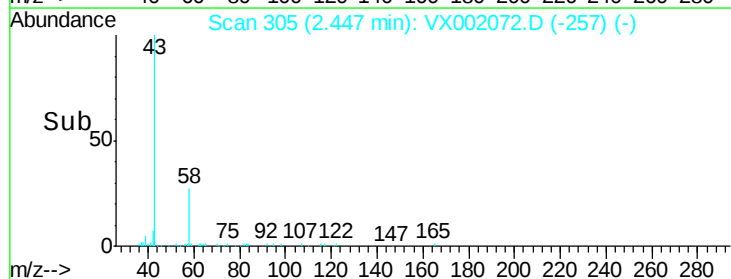
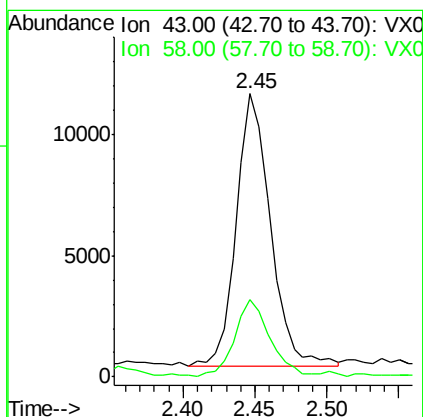
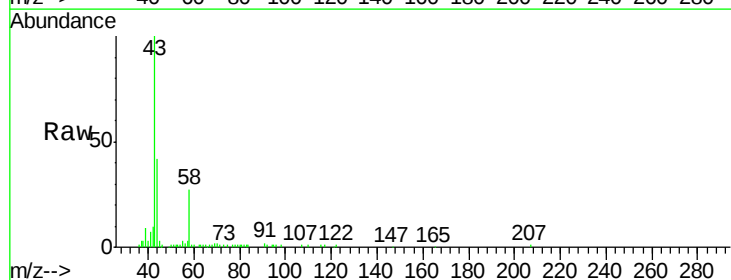
Instrument :
MSVOA_X
ClientSampleId :

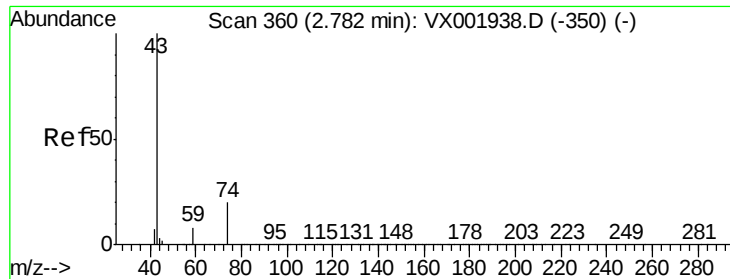
Tot Ion	Ratio	Lower	Upper
41	100		
39	1.4	54.3	81.5#
76	0.4	24.2	36.4#



#16
Acetone
Concen: 8.47 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.7	22.3	33.5

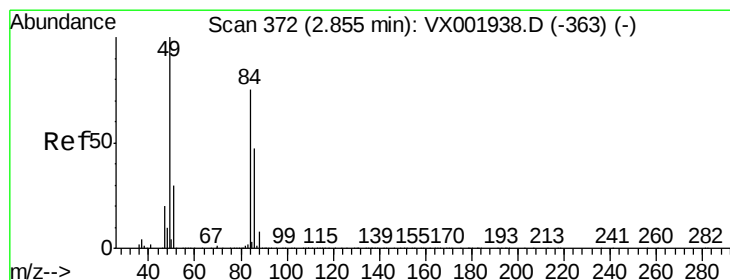
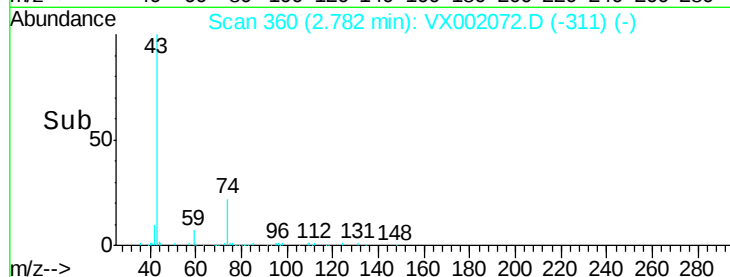
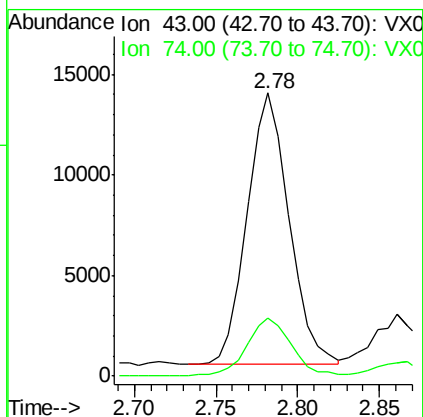
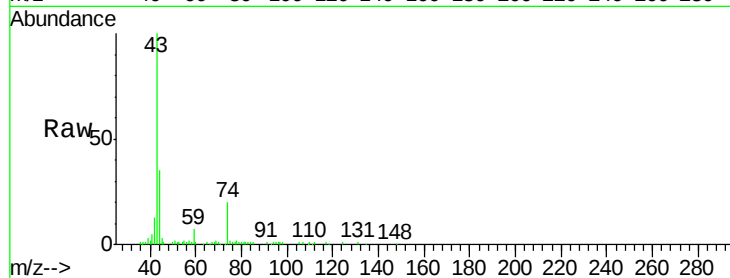




#18
Methvl Acetate
Concen: 3.48 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

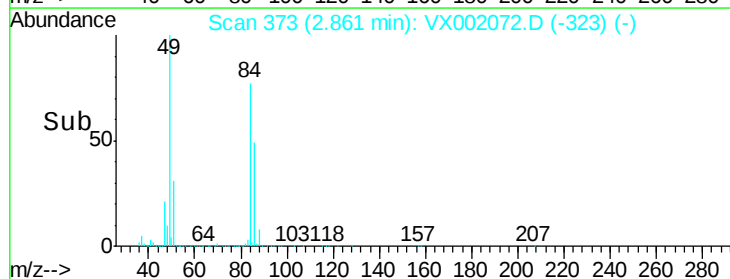
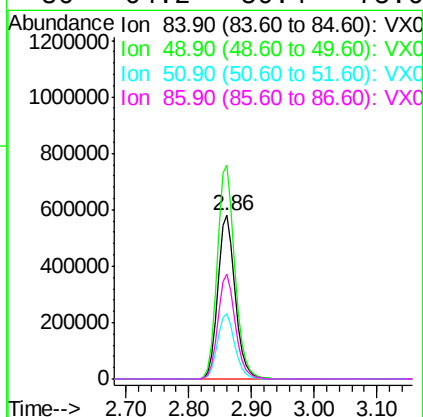
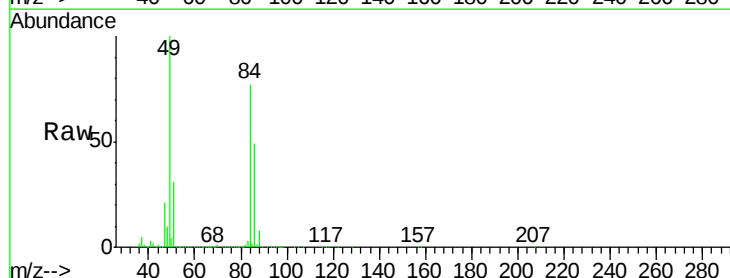
Instrument :
MSVOA_X
ClientSampleId :

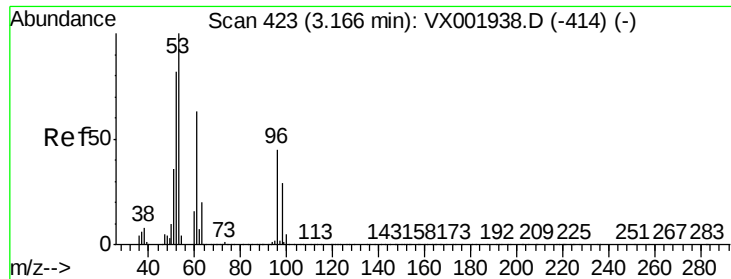
Tot Ion: 43 Resp: 24140
Ion Ratio Lower Upper
43 100
74 23.1 16.8 25.2



#20
Methylene Chloride
Concen: 298.59 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

Tgt Ion: 84 Resp: 1110653
Ion Ratio Lower Upper
84 100
49 130.5 107.2 160.8
51 39.8 32.4 48.6
86 64.2 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 423

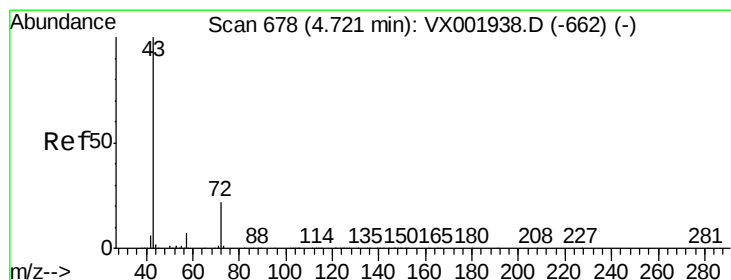
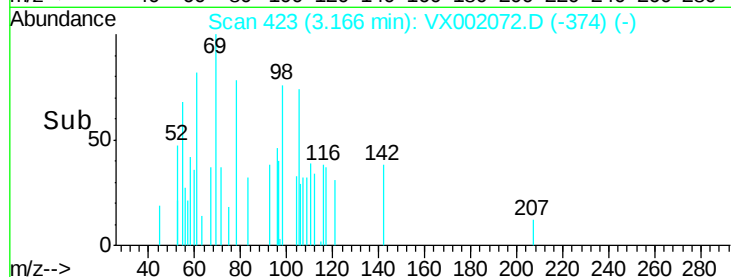
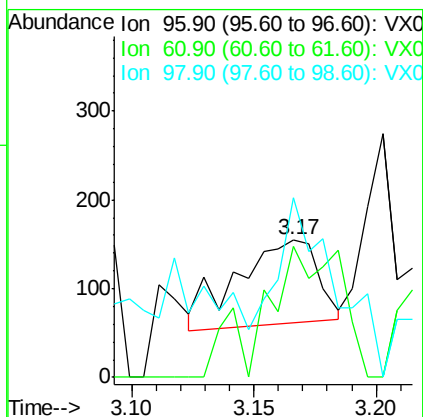
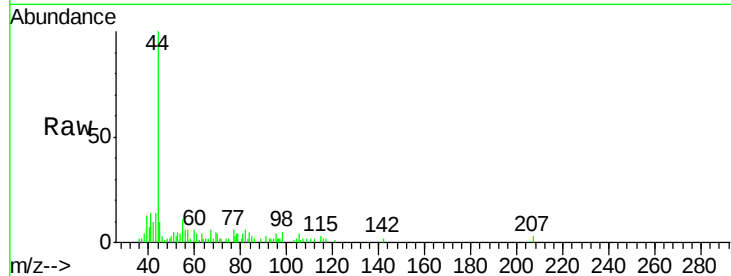
Delta R.T. 0.00 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 221
Ion Ratio Lower Upper
96 100
61 175.0 113.3 169.9#
98 153.6 51.7 77.5#



#25

2-Butanone

Concen: 0.80 ug/l

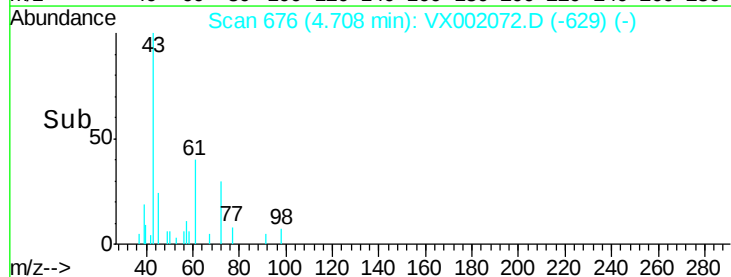
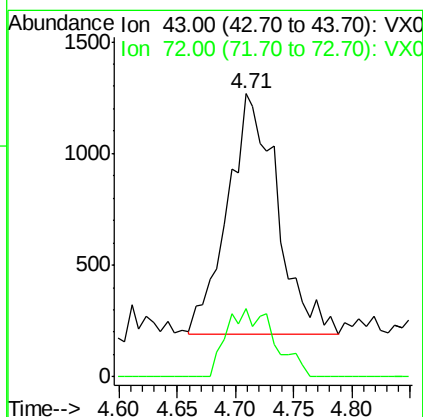
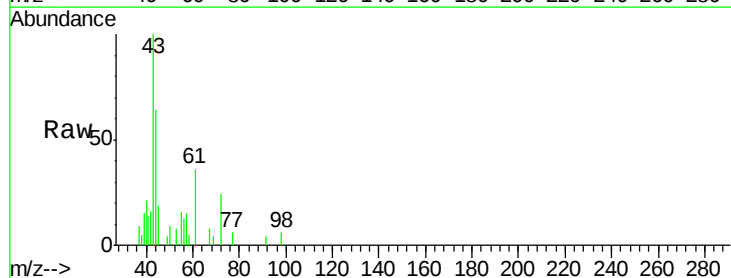
RT: 4.71 min Scan# 676

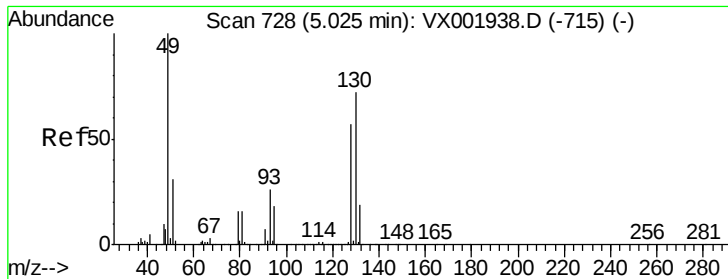
Delta R.T. -0.01 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Tgt Ion: 43 Resp: 3223
Ion Ratio Lower Upper
43 100
72 28.4 17.9 26.9#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

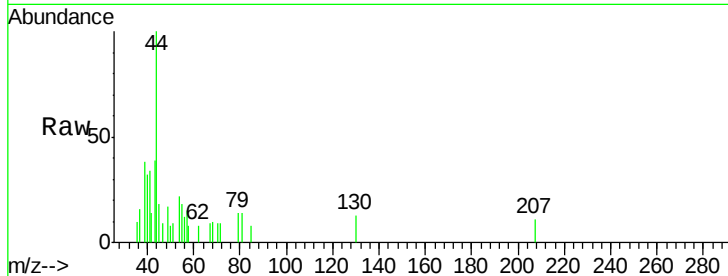
Delta R.T. 0.00 min

Lab File: VX002072.D

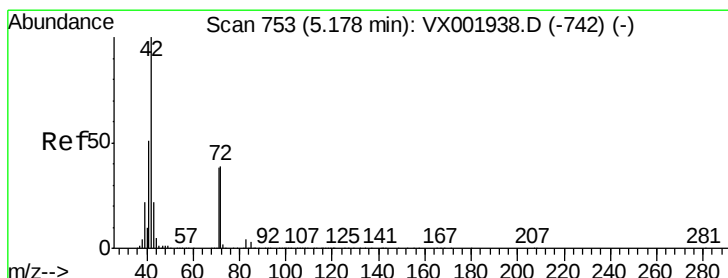
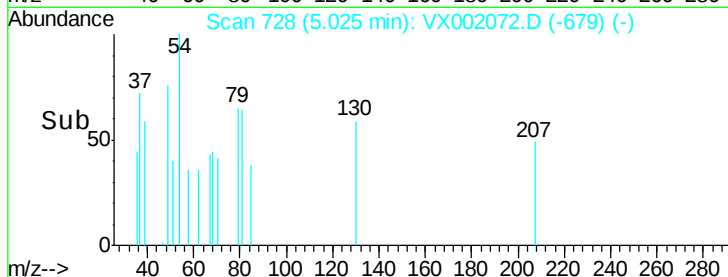
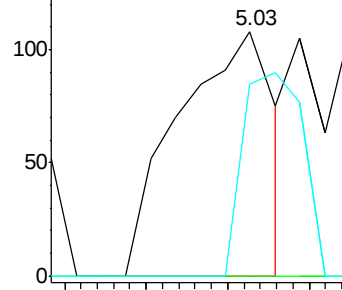
Acq: 27 May 2018 16:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 176
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 52.3 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: 0.21 ug/l

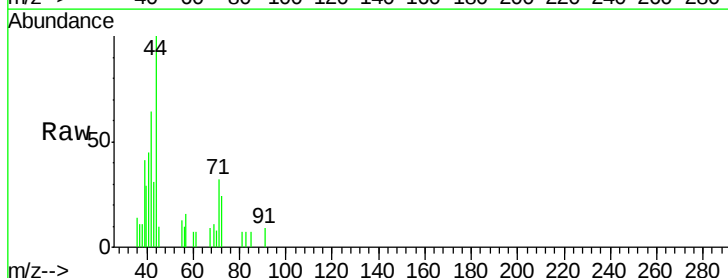
RT: 5.17 min Scan# 752

Delta R.T. -0.01 min

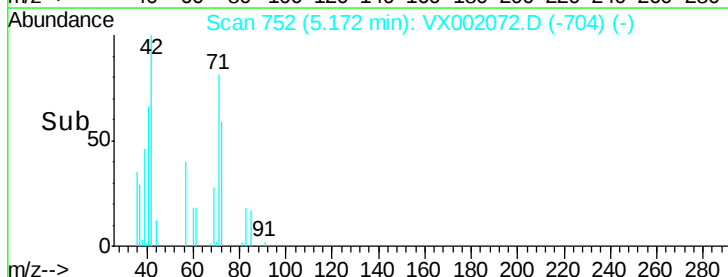
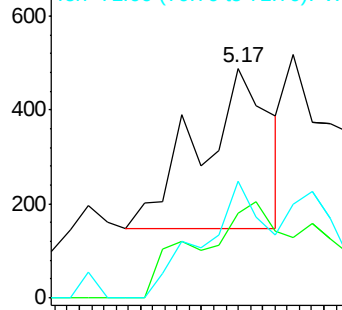
Lab File: VX002072.D

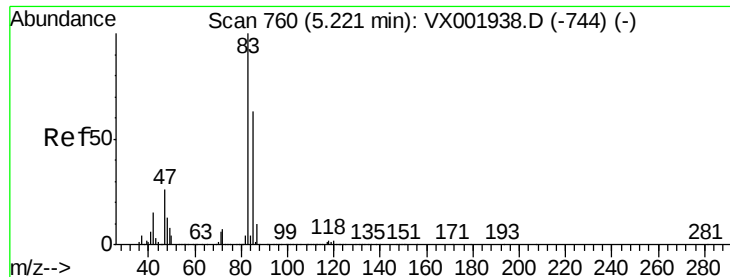
Acq: 27 May 2018 16:52

Tgt Ion: 42 Resp: 545
Ion Ratio Lower Upper
42 100
72 104.0 31.4 47.0#
71 65.0 29.5 44.3#



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

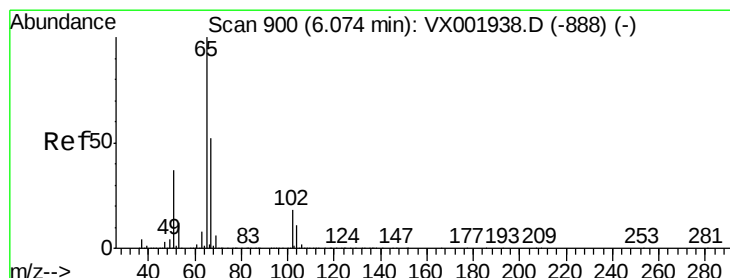
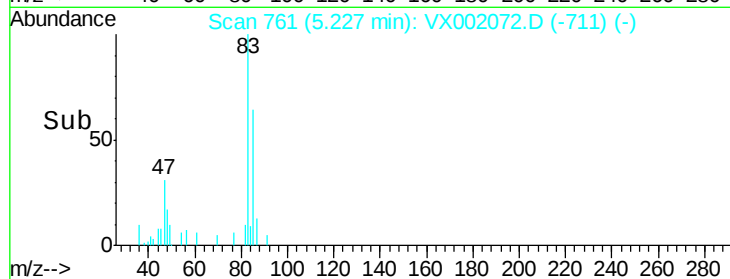
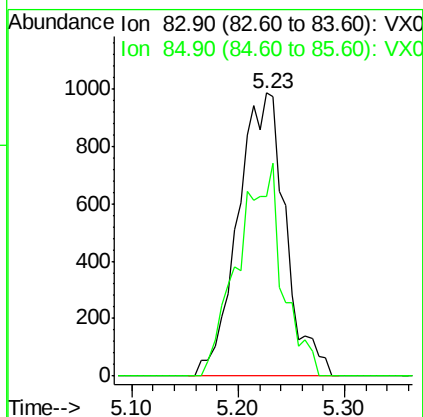
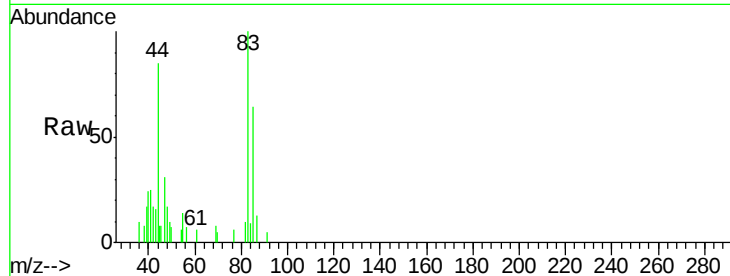




#30
Chloroform
Concen: 0.36 ug/l
RT: 5.23 min Scan# 761
Delta R.T. 0.01 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

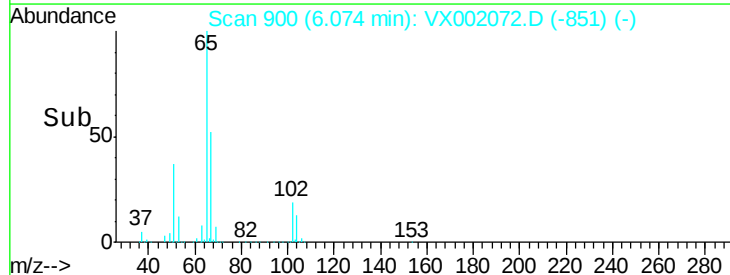
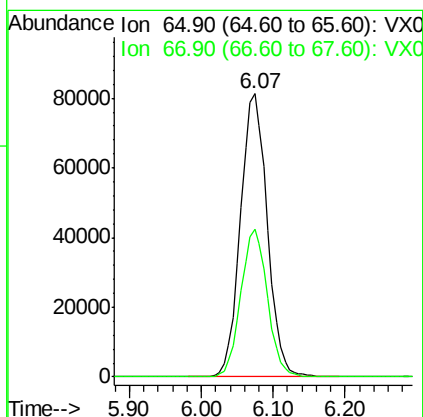
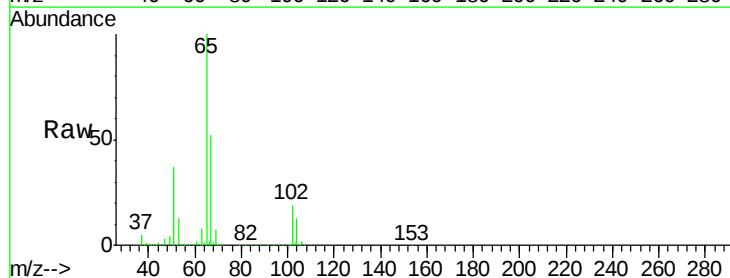
Instrument :
MSVOA_X
ClientSampled :

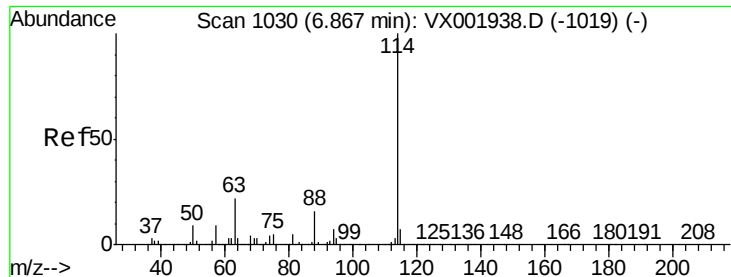
Tot Ion: 83 Resp: 3095
Ion Ratio Lower Upper
83 100
85 63.6 50.9 76.3



#33
1,2-Dichloroethane-d4
Concen: 36.81 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

Tgt Ion: 65 Resp: 210769
Ion Ratio Lower Upper
65 100
67 51.7 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Instrument :
MSVOA_X
ClientSampled :

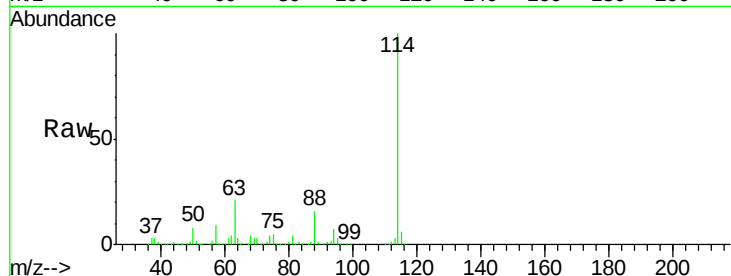
Tot Ion:114 Resp: 453676

Ion Ratio Lower Upper

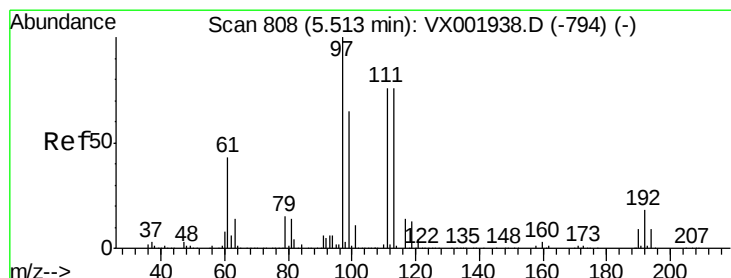
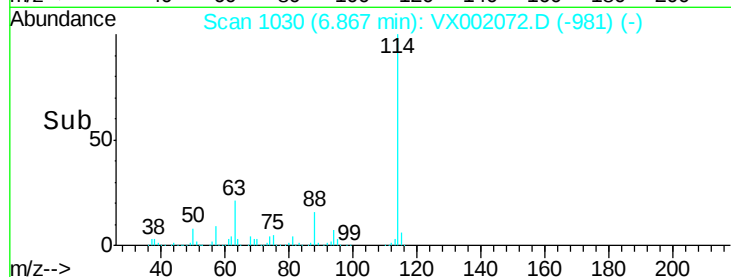
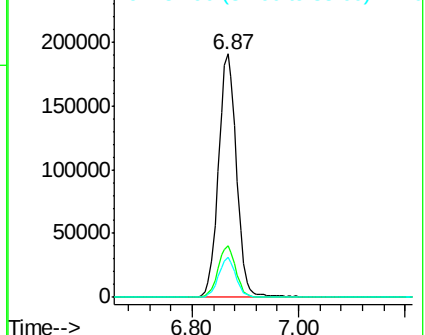
114 100

63 21.5 0.0 43.2

88 16.3 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: 36.02 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

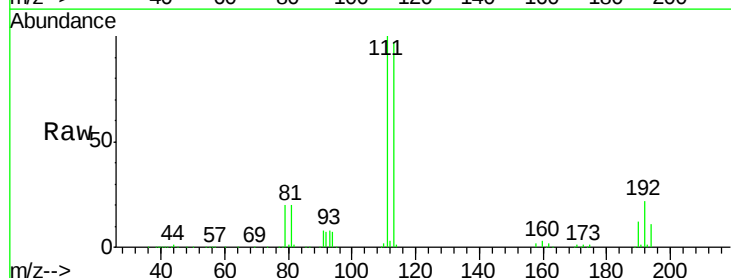
Tgt Ion:113 Resp: 163412

Ion Ratio Lower Upper

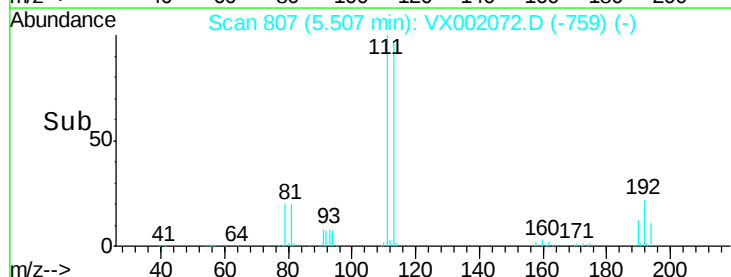
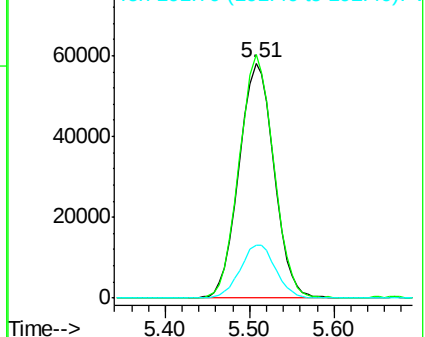
113 100

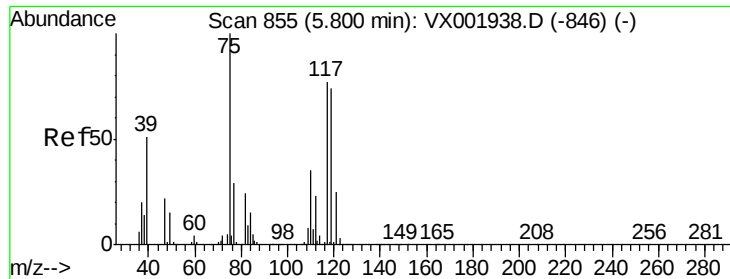
111 102.2 82.0 123.0

192 23.1 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: 3.50 ug/l

RT: 5.66 min Scan# 832

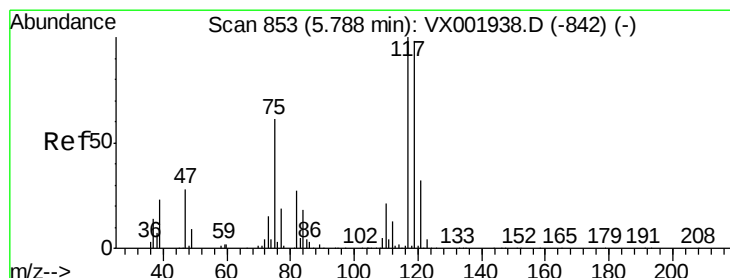
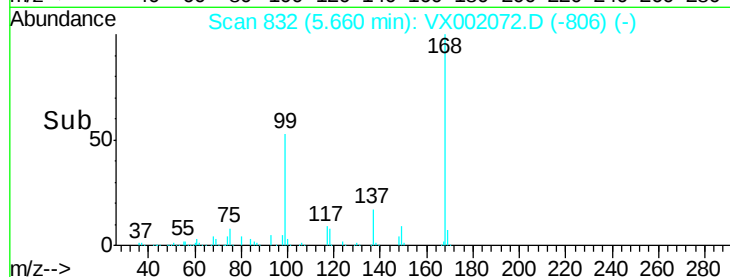
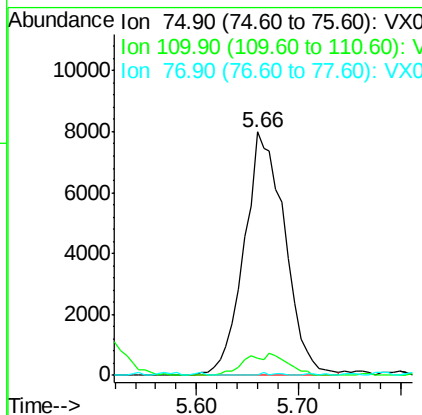
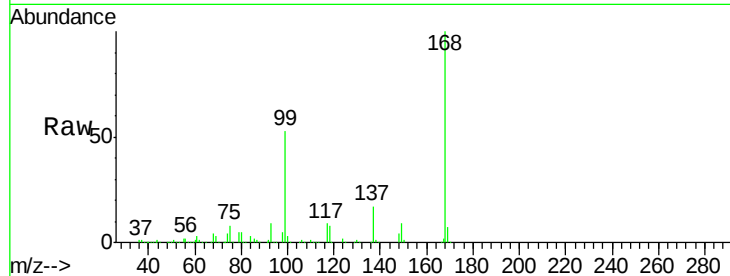
Delta R.T. -0.14 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	75	Resp:	22116
Ion	Ratio	Lower	Upper
75	100		
110	4.8	17.4	52.2#
77	0.2	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 4.07 ug/l

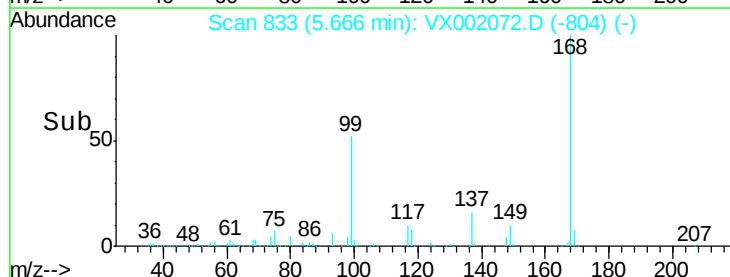
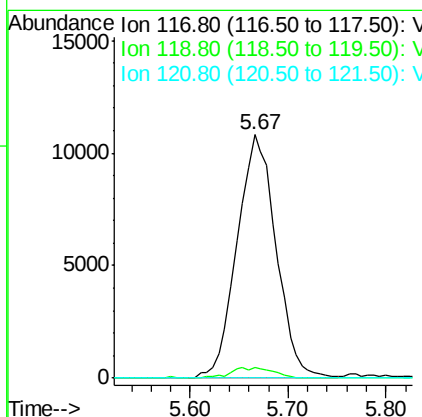
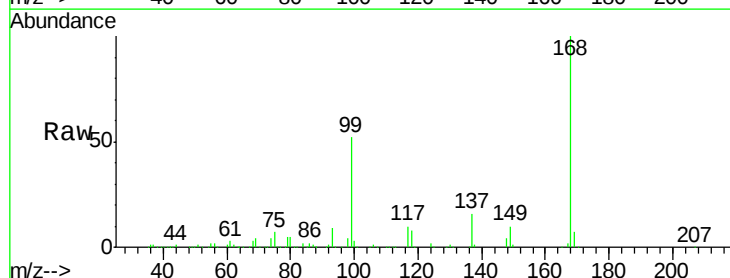
RT: 5.67 min Scan# 833

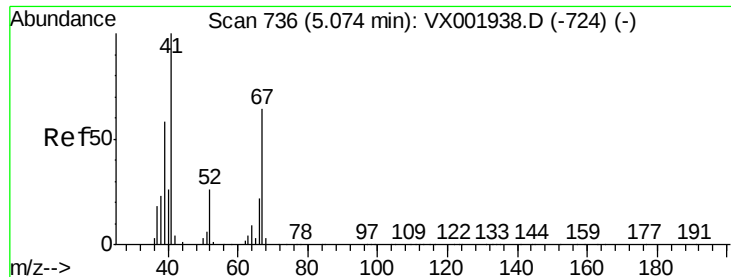
Delta R.T. -0.12 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Tgt Ion:	117	Resp:	29950
Ion	Ratio	Lower	Upper
117	100		
119	4.5	78.5	117.7#
121	0.0	25.5	38.3#

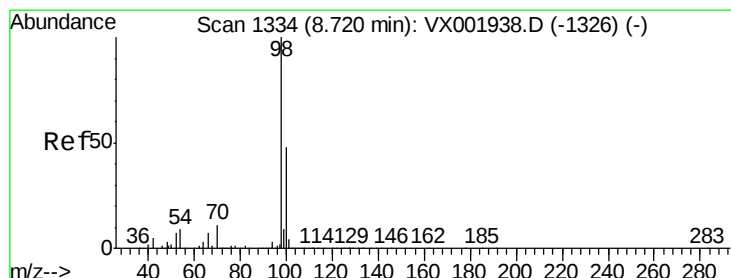
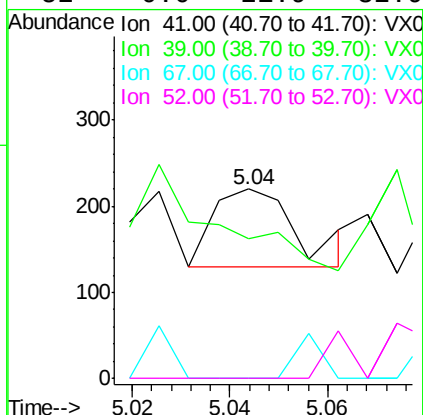
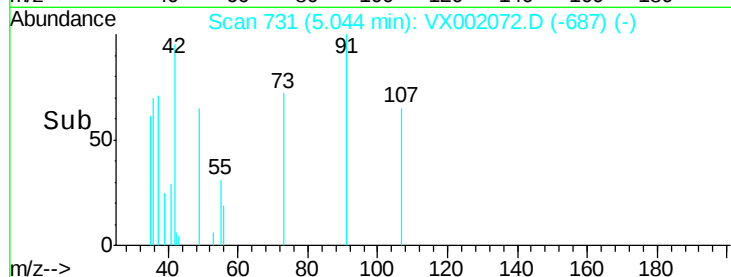
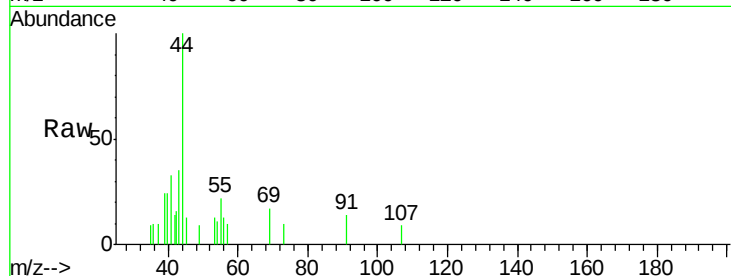




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.04 min Scan# 731
Delta R.T. -0.03 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

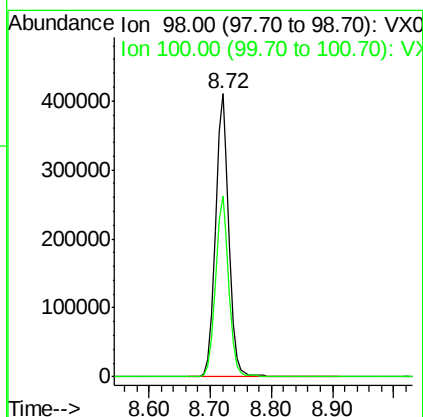
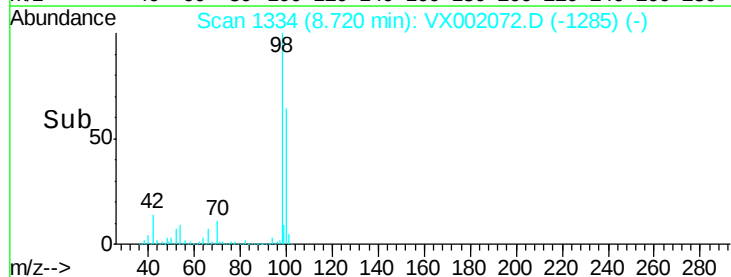
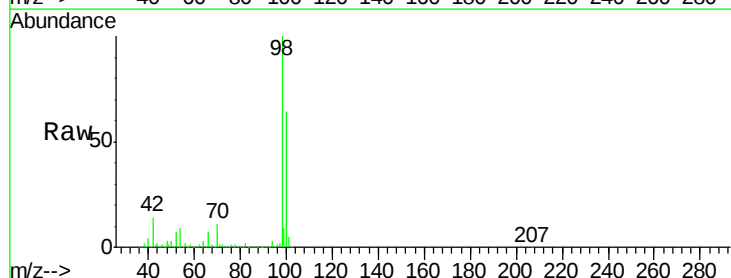
Instrument :
MSVOA_X
ClientSampled :

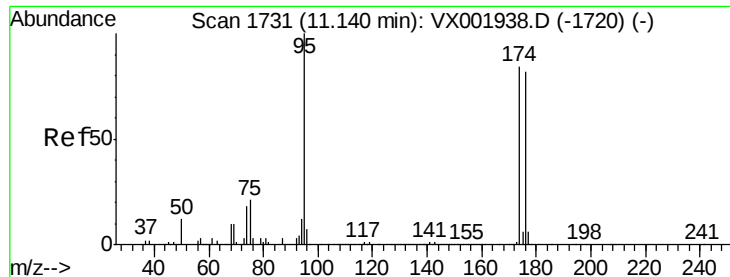
Tot Ion:	41	Resp:	108
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.0	69.0#
67	17.6	50.6	75.8#
52	0.0	21.9	32.9#



#50
Toluene-d8
Concen: 39.13 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

Tgt Ion:	98	Resp:	642644
Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.5	77.3

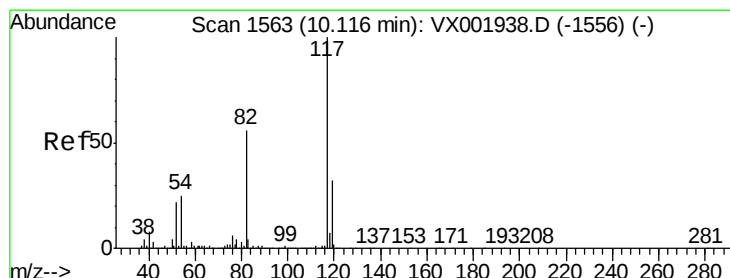
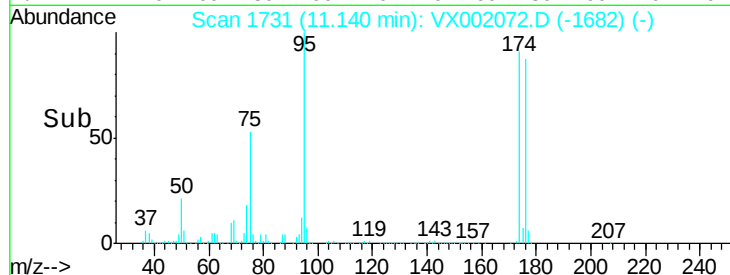
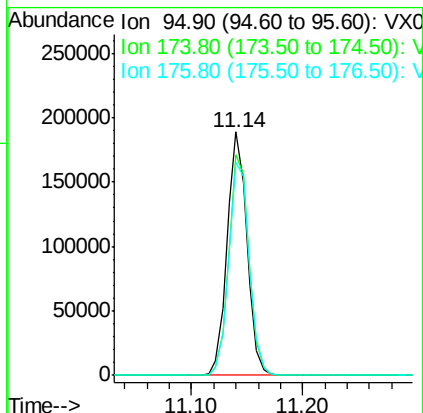
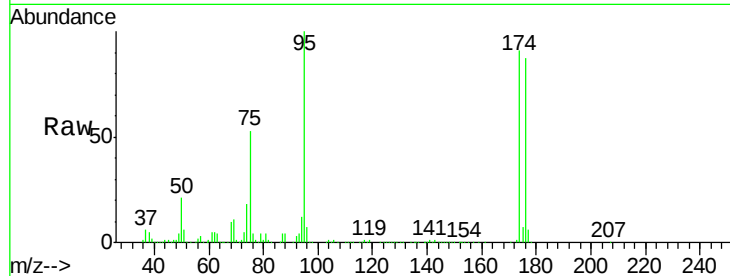




#62
4-Bromofluorobenzene
Concen: 36.14 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

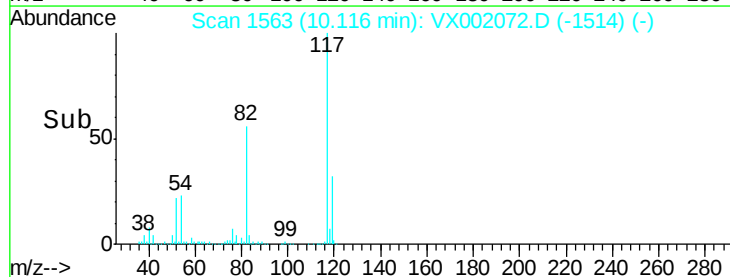
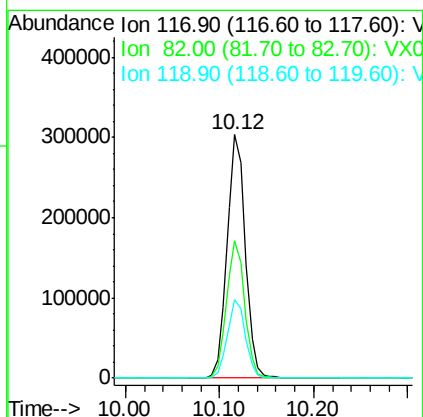
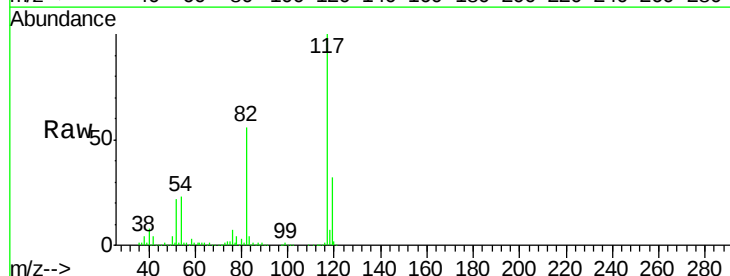
Instrument :
MSVOA_X
ClientSampled :

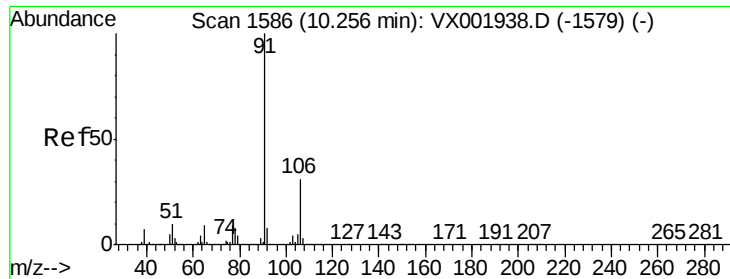
Tot Ion: 95 Resp: 232265
Ion Ratio Lower Upper
95 100
174 92.1 0.0 178.8
176 90.3 0.0 175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

Tgt Ion: 117 Resp: 408944
Ion Ratio Lower Upper
117 100
82 56.4 44.8 67.2
119 32.1 25.5 38.3

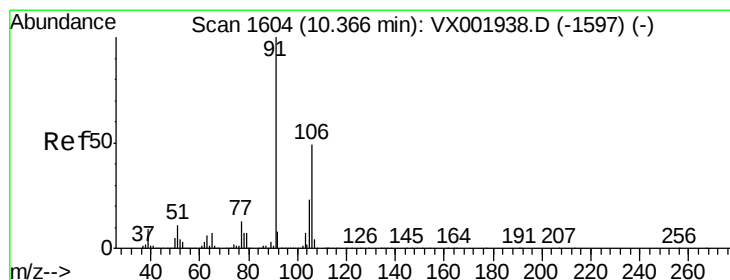
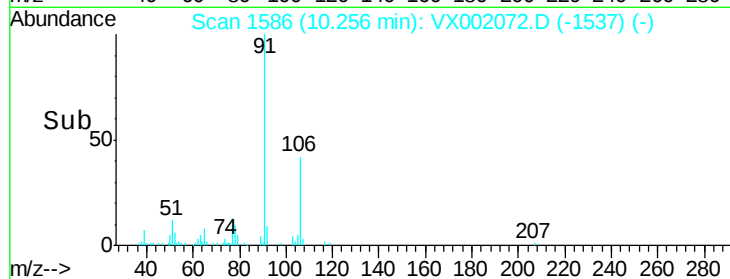
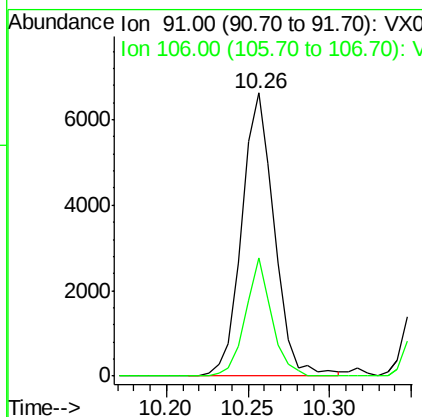
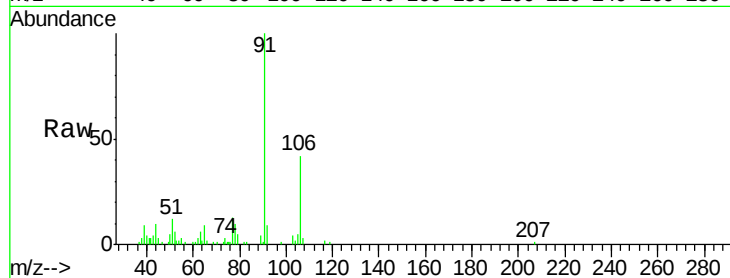




#67
Ethyl Benzene
Concen: 0.41 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

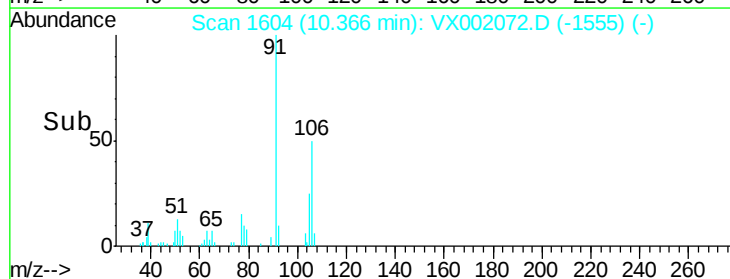
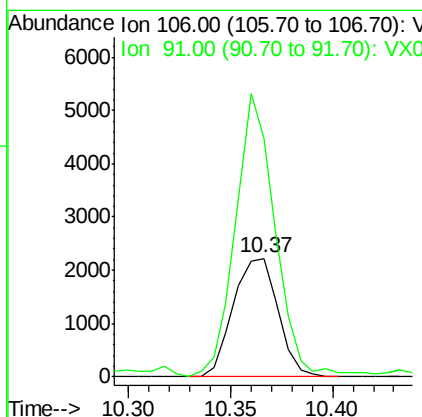
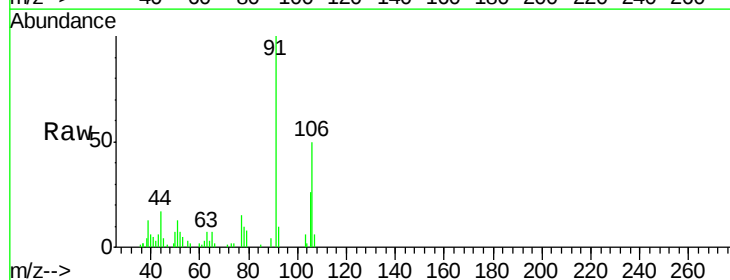
Instrument :
MSVOA_X
ClientSampleId :

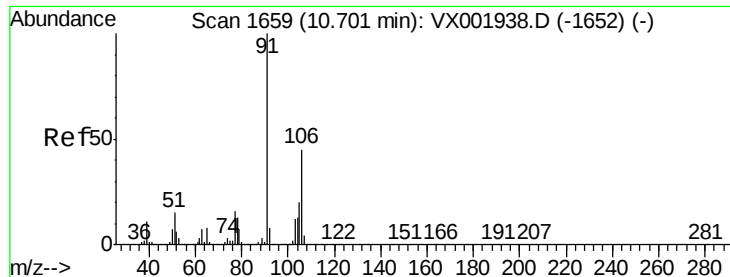
Tot Ion: 91 Resp: 9188
Ion Ratio Lower Upper
91 100
106 41.6 25.0 37.6#



#68
m/p-Xylenes
Concen: 0.39 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

Tgt Ion: 106 Resp: 3397
Ion Ratio Lower Upper
106 100
91 211.9 165.0 247.6

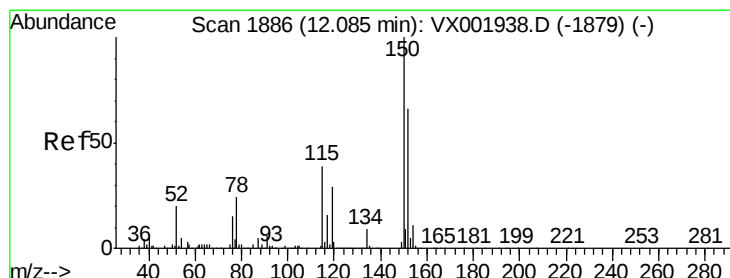
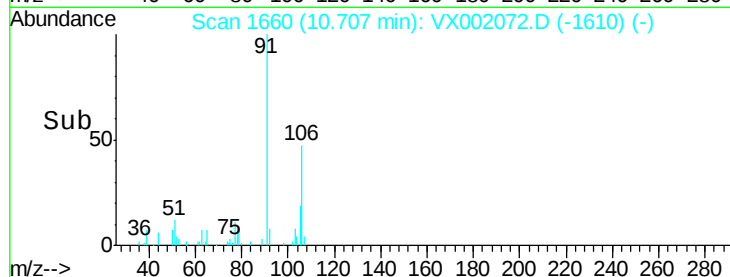
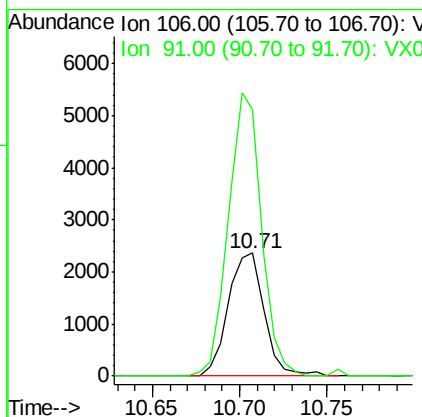
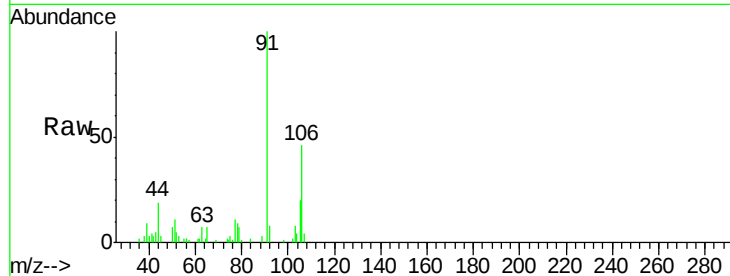




#69
o-Xylene
Concen: 0.39 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.01 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

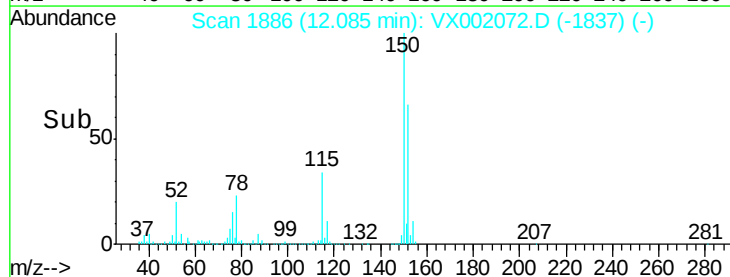
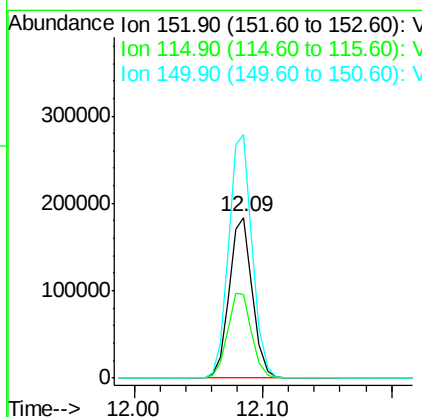
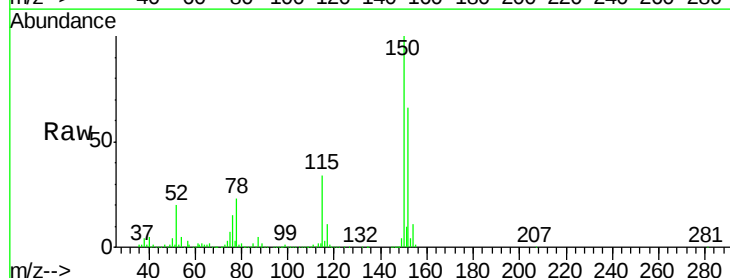
Instrument :
MSVOA_X
ClientSampleId :

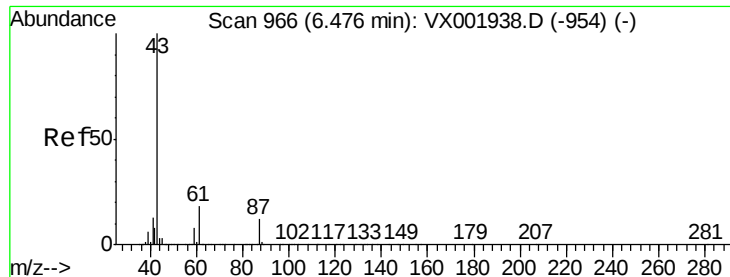
Tot Ion:106 Resp: 3369
Ion Ratio Lower Upper
106 100
91 212.5 108.7 325.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002072.D
Acq: 27 May 2018 16:52

Tgt Ion:152 Resp: 230675
Ion Ratio Lower Upper
152 100
115 54.8 42.3 126.8
150 154.7 0.0 351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 248

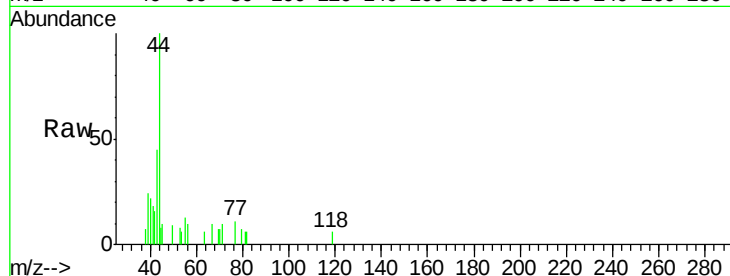
Ion Ratio Lower Upper

43 100

70 17.7 0.1 0.1#

55 21.4 0.1 0.1#

61 0.0 14.5 21.7#

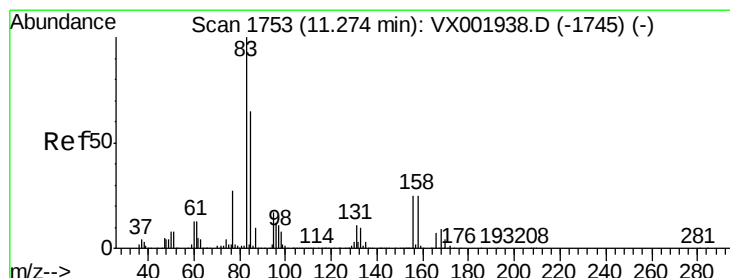
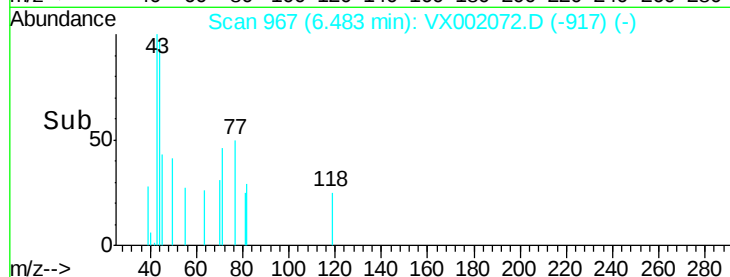
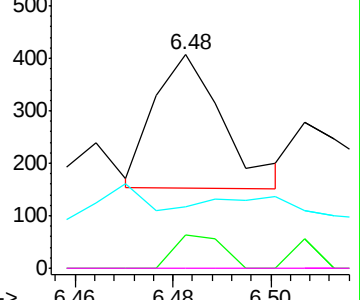


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.27 min Scan# 1753

Delta R.T. 0.00 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

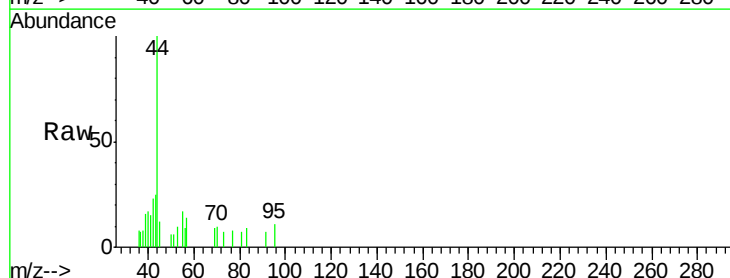
Tgt Ion: 83 Resp: 54

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

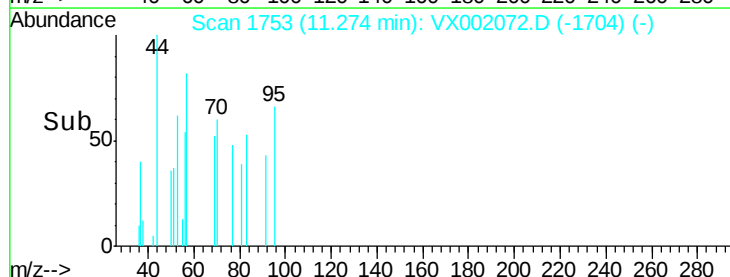
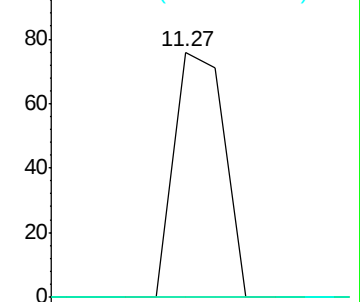
85 0.0 32.6 97.7#

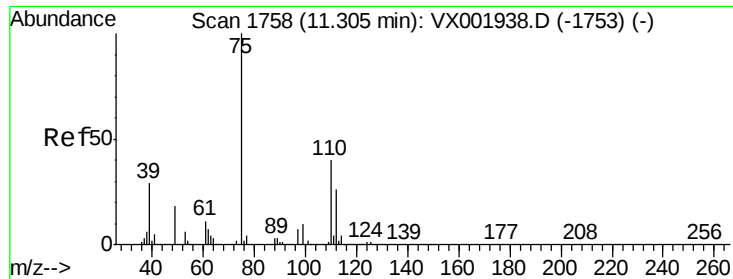


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

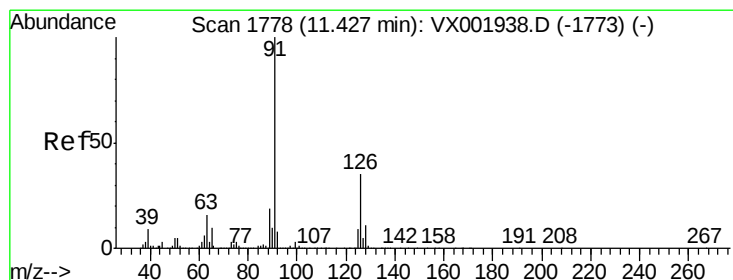
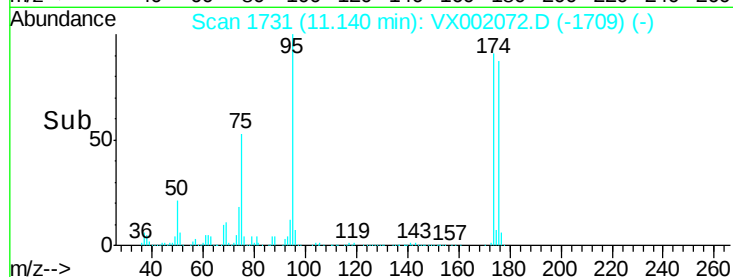
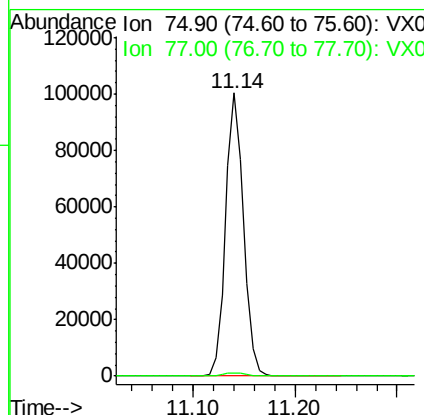
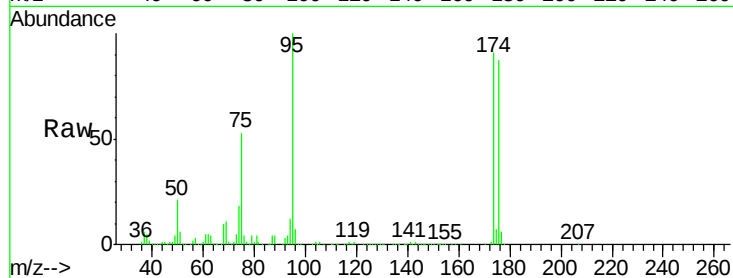




#76
 1,2,3-Trichloropropane
 Concen: 22.13 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002072.D
 Acq: 27 May 2018 16:52

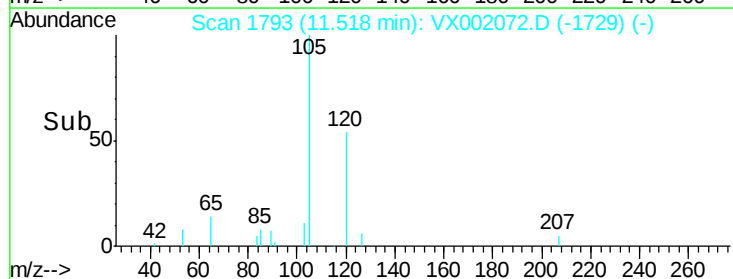
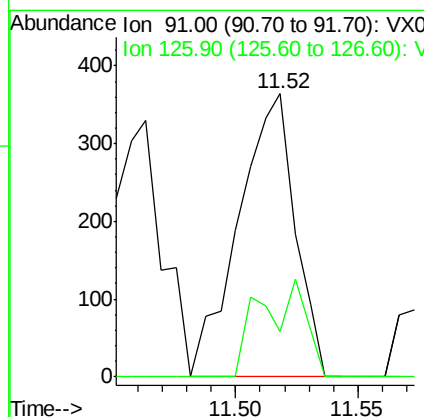
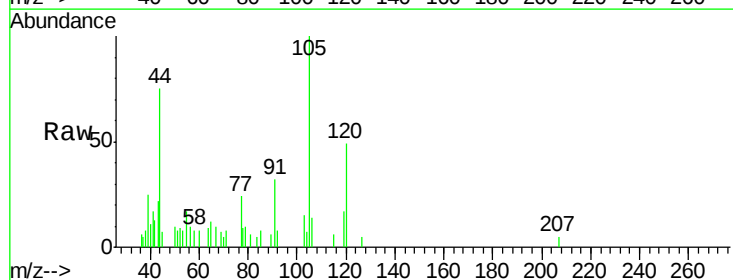
Instrument :
 MSVOA_X
 ClientSampled :

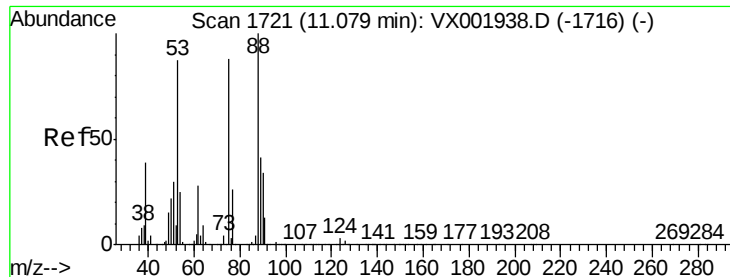
Tot Ion: 75 Resp: 122588
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.52 min Scan# 1793
 Delta R.T. 0.09 min
 Lab File: VX002072.D
 Acq: 27 May 2018 16:52

Tgt Ion: 91 Resp: 583
 Ion Ratio Lower Upper
 91 100
 126 27.4 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 53.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Instrument :

MSVOA_X

ClientSampleId :

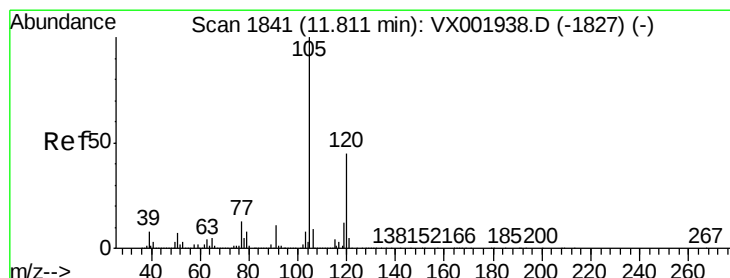
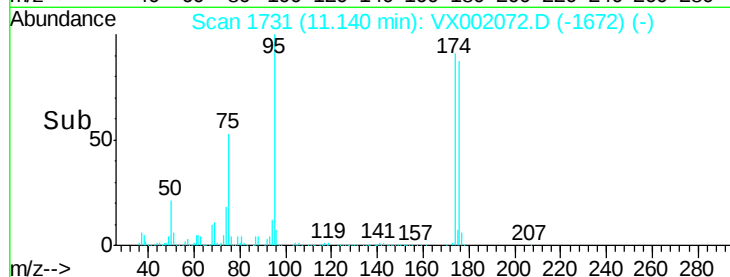
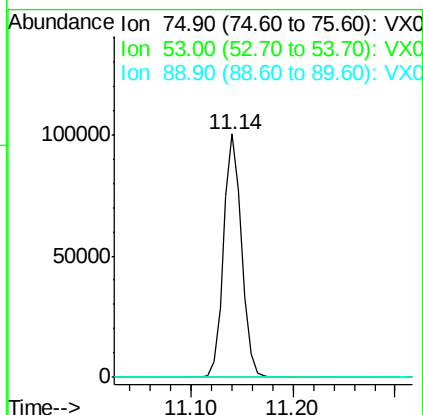
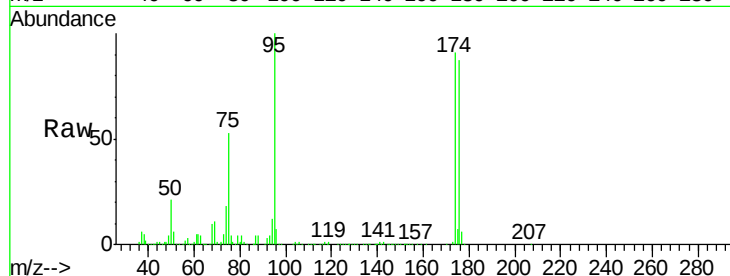
Tot Ion: 75 Resp: 122588

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 39.4 59.2#



#84

1,2,4-Trimethylbenzene

Concen: 0.54 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX002072.D

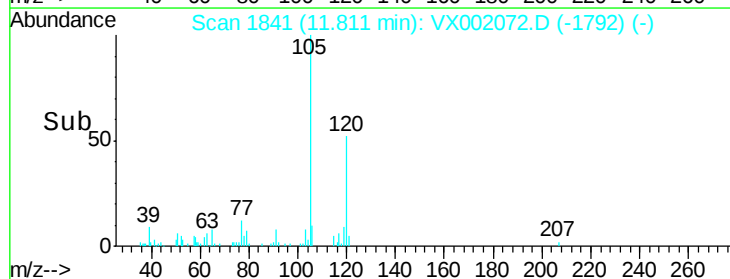
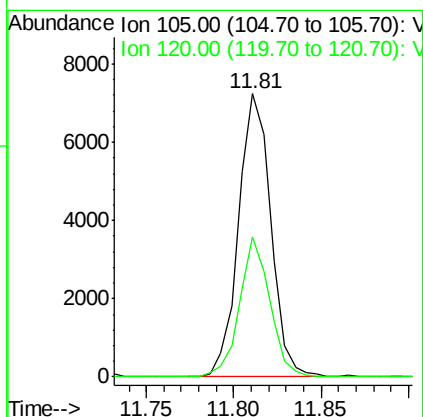
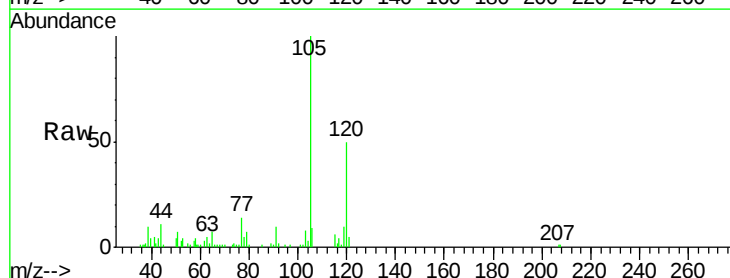
Acq: 27 May 2018 16:52

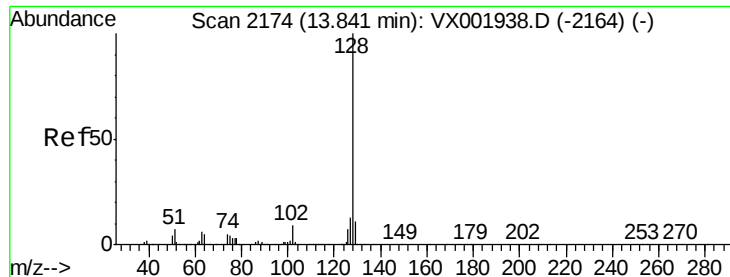
Tgt Ion: 105 Resp: 9300

Ion Ratio Lower Upper

105 100

120 46.1 22.1 66.5





#95

Naphthalene

Concen: 14.51 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX002072.D

Acq: 27 May 2018 16:52

Instrument :

MSVOA_X

ClientSampleId :

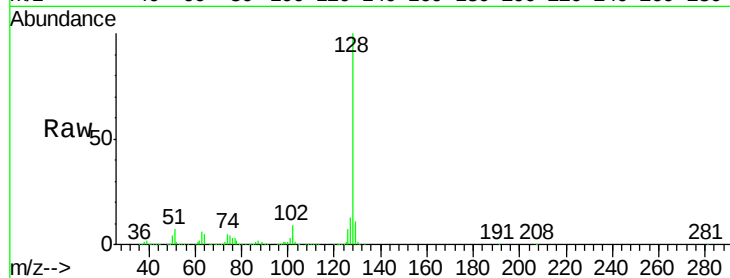
Tot Ion:128 Resp: 302291

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

129 11.1 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

