

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002068.D
 Acq On : 27 May 2018 15:06
 Operator : JC/MD
 Sample : J3077-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 02:55:36 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	318438	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	447537	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	402930	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	223354	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	208056	36.55	ug/l	0.00
Spiked Amount			Recovery	=	73.10%	
35) Dibromofluoromethane	5.51	113	153994	34.41	ug/l	0.00
Spiked Amount			Recovery	=	68.82%	
50) Toluene-d8	8.72	98	634277	39.15	ug/l	0.00
Spiked Amount			Recovery	=	78.30%	
62) 4-Bromofluorobenzene	11.14	95	227977	35.96	ug/l	0.00
Spiked Amount			Recovery	=	71.92%	

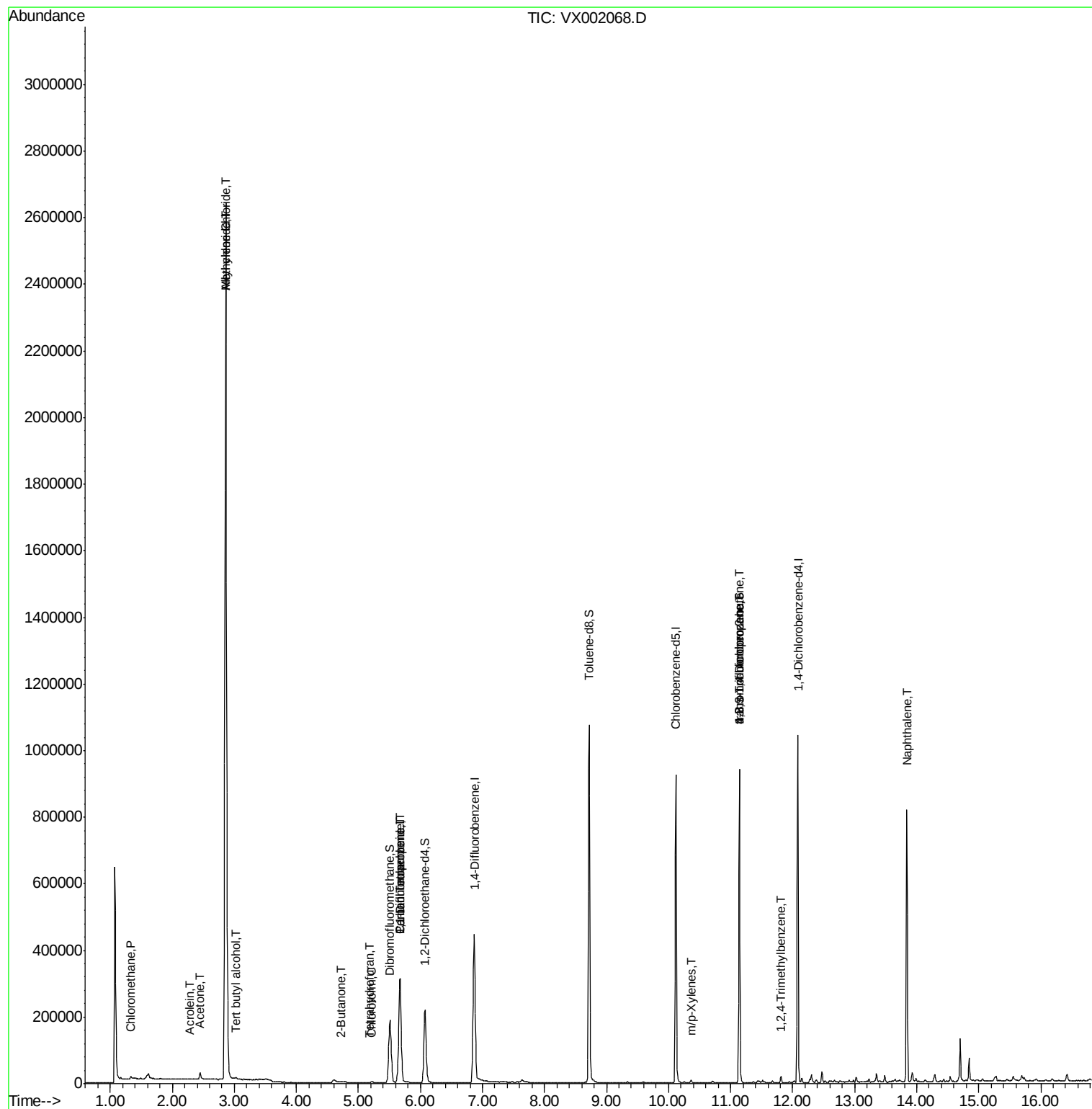
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	189	Below Cal	#	70
3) Chloromethane	1.33	50	4339	0.89	ug/l	# 88
5) Bromomethane	1.65	94	660	Below Cal		95
11) Tert butyl alcohol	3.02	59	2805	2.51	ug/l	# 77
13) Acrolein	2.28	56	98	0.20	ug/l	# 1
14) Allyl chloride	2.86	41	47248	6.06	ug/l	# 26
16) Acetone	2.45	43	20668	9.41	ug/l	99
18) Methyl Acetate	2.78	43	2173	Below Cal	#	79
20) Methylene Chloride	2.86	84	1207782	326.77	ug/l	98
21) trans-1,2-Dichloroethene	3.18	96	679	Below Cal	#	33
25) 2-Butanone	4.71	43	3592	0.89	ug/l	# 88
28) Bromochloromethane	5.04	49	623	Below Cal	#	39
29) Tetrahydrofuran	5.17	42	1042	0.40	ug/l	# 75
30) Chloroform	5.22	83	2261	0.27	ug/l	94
36) 1,1-Dichloropropene	5.67	75	22428	3.60	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	29775	4.10	ug/l	# 14
41) Methacrylonitrile	5.08	41	98	Below Cal	#	81
68) m/p-Xylenes	10.36	106	1704	0.20	ug/l	86
74) N-amyl acetate	6.47	43	398	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.22	83	85	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	121619	22.67	ug/l	# 33
79) 2-Chlorotoluene	11.51	91	753	Below Cal		74
81) trans-1,4-Dichloro-2-buten	11.14	75	121619	54.48	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	7661	0.46	ug/l	100
95) Naphthalene	13.84	128	497816	24.68	ug/l	100

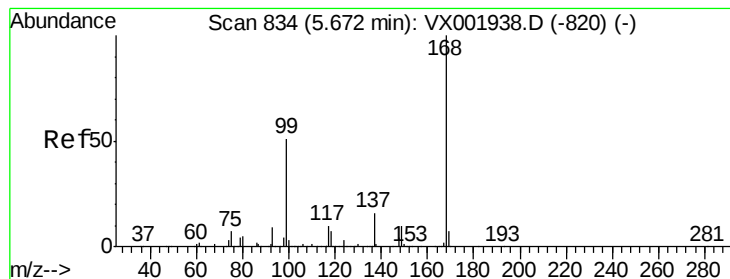
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002068.D

Acq: 27 May 2018 15:06

Instrument :

MSVOA_X

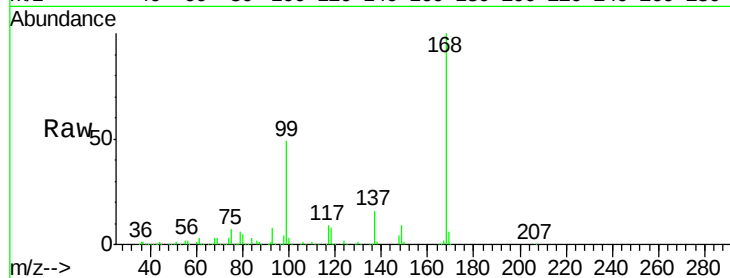
ClientSampleId :

Tot Ion:168 Resp: 318438

Ion Ratio Lower Upper

168 100

99 48.7 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

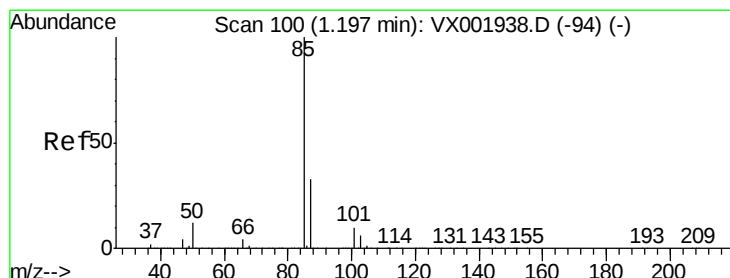
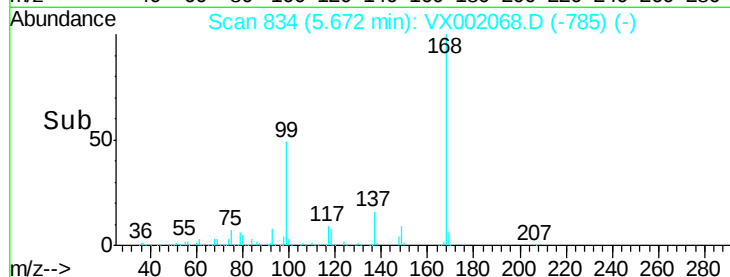
5.67

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002068.D

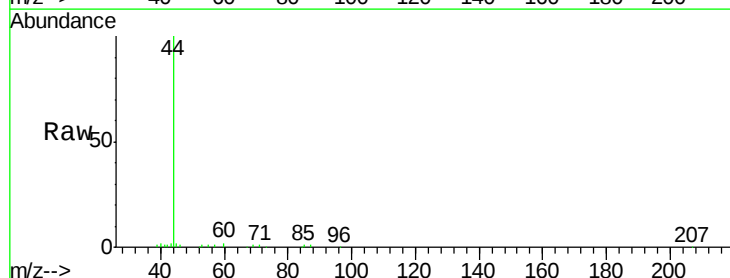
Acq: 27 May 2018 15:06

Tgt Ion: 85 Resp: 189

Ion Ratio Lower Upper

85 100

87 50.4 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

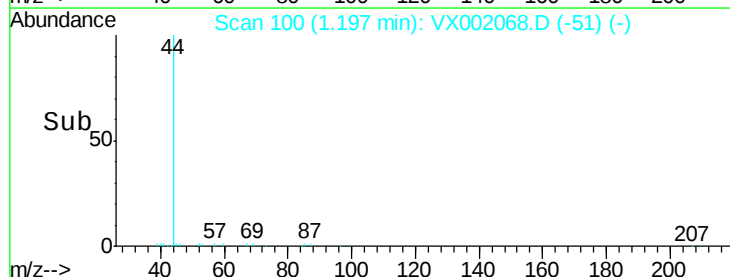
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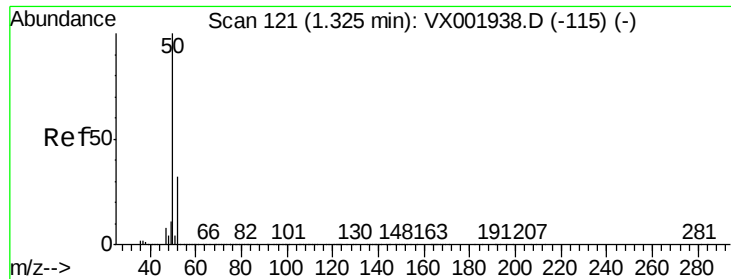
100

50

0

Time-->





#3

Chloromethane

Concen: 0.89 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :

MSVOA_X

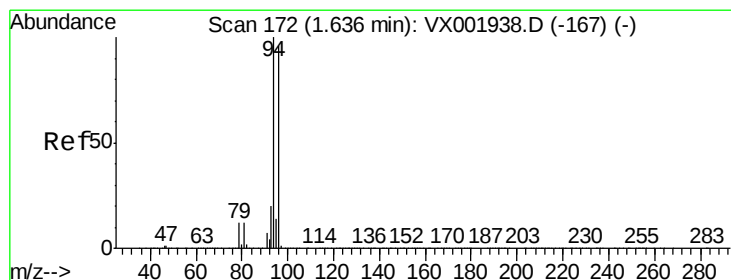
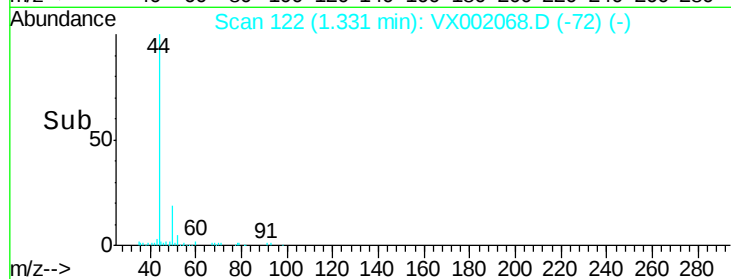
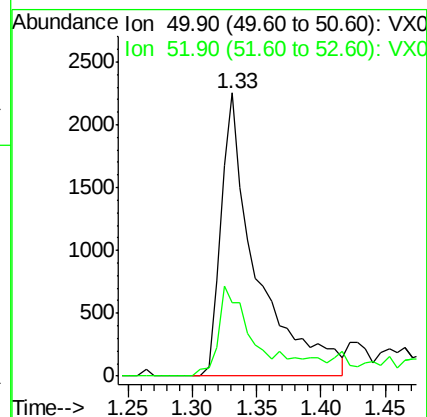
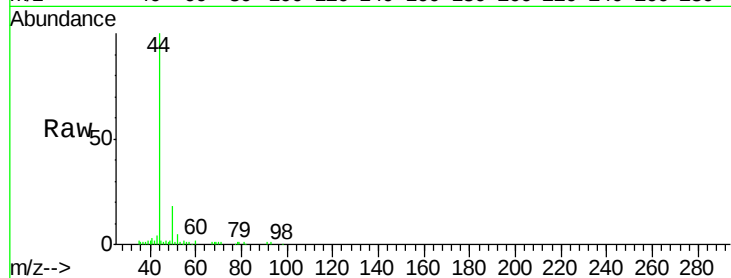
ClientSampleId :

Tot Ion: 50 Resp: 4339

Ion Ratio Lower Upper

50 100

52 26.0 26.0 39.0#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002068.D

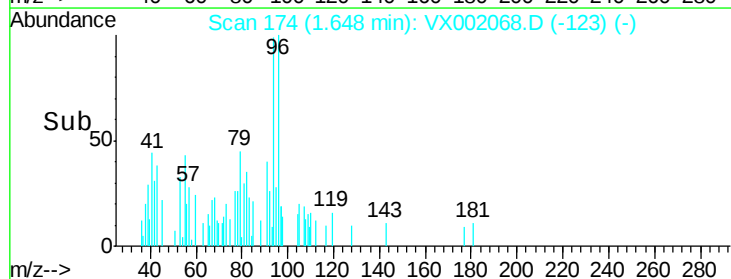
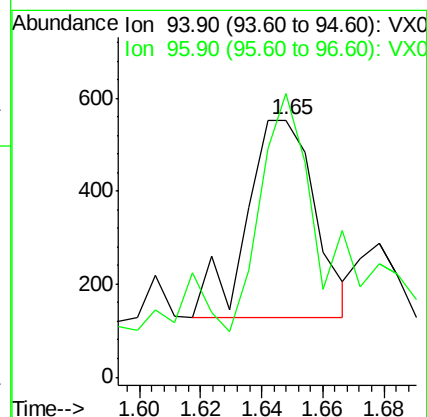
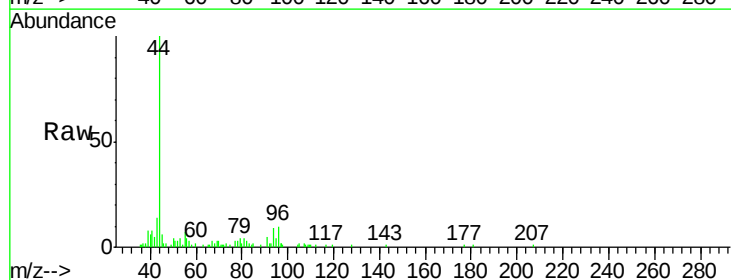
Acq: 27 May 2018 15:06

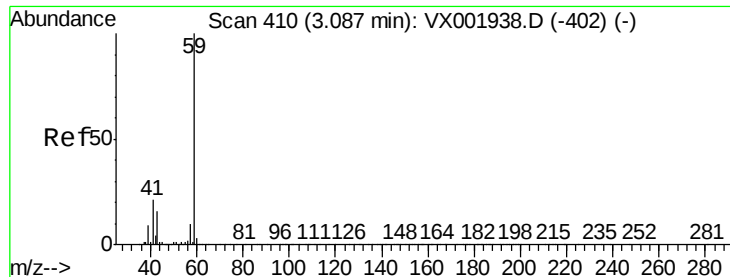
Tgt Ion: 94 Resp: 660

Ion Ratio Lower Upper

94 100

96 90.4 75.9 113.9



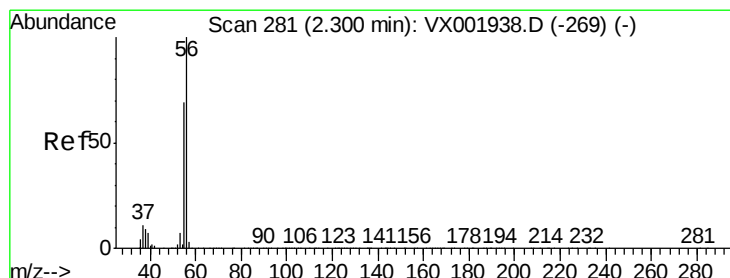
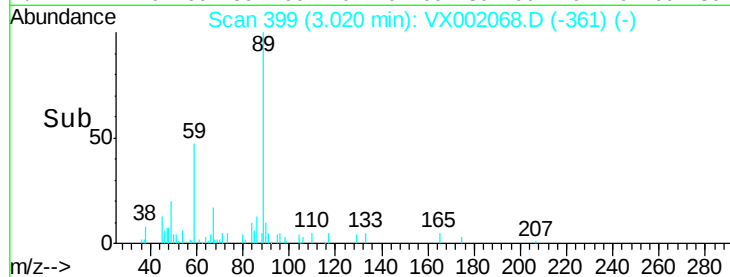
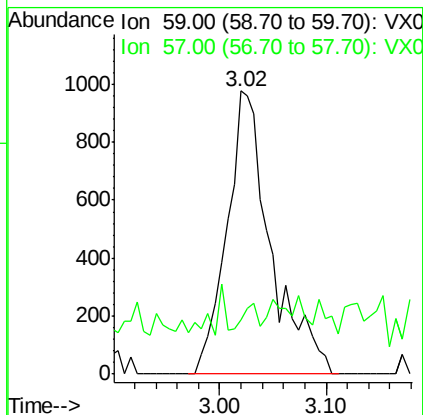
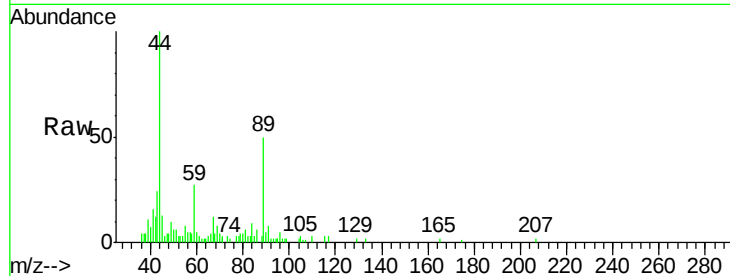


#11

Tert butvl alcohol
Concen: 2.51 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.07 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

Instrument :
MSVOA_X
ClientSampled :

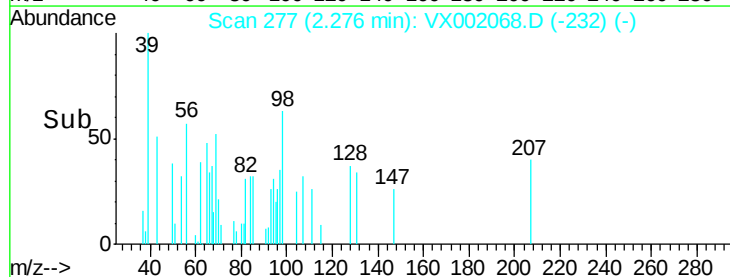
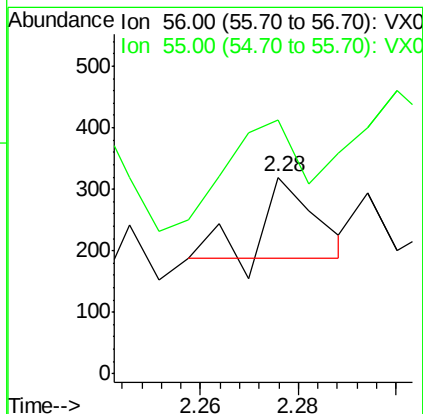
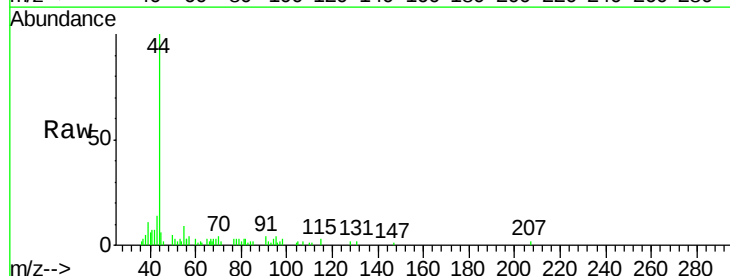
Tot Ion: 59 Resp: 2805
Ion Ratio Lower Upper
59 100
57 2.5 8.9 13.3#

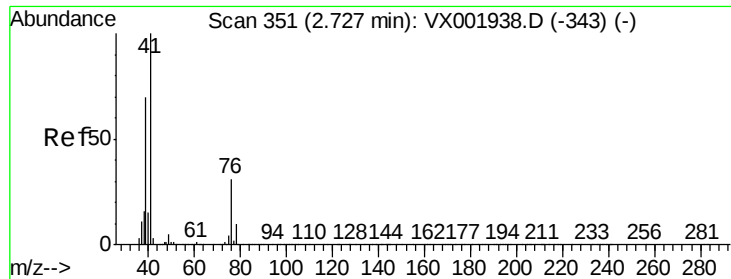


#13

Acrolein
Concen: 0.20 ug/l
RT: 2.28 min Scan# 277
Delta R.T. -0.02 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

Tgt Ion: 56 Resp: 98
Ion Ratio Lower Upper
56 100
55 198.0 56.8 85.2#

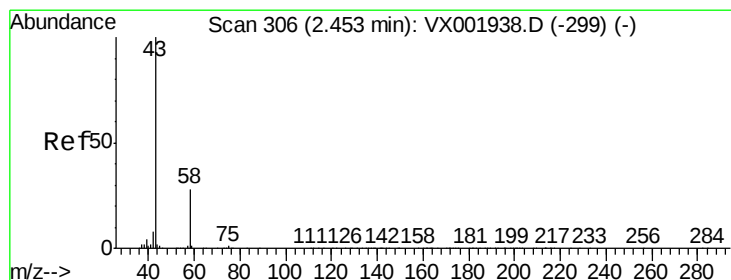
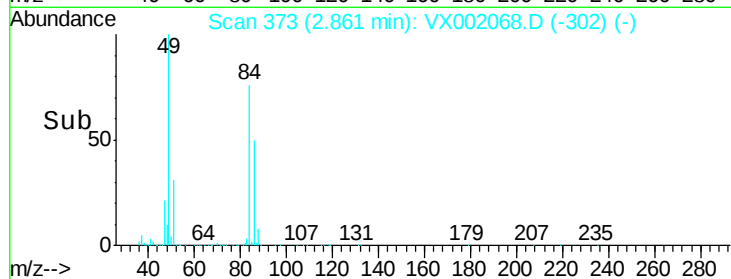
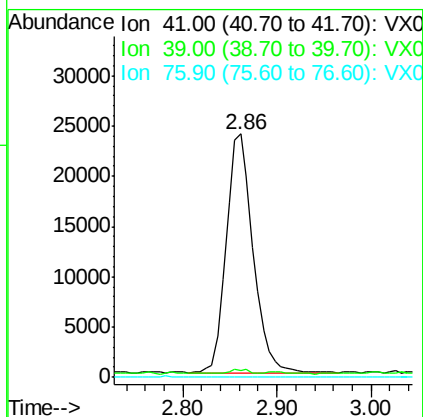
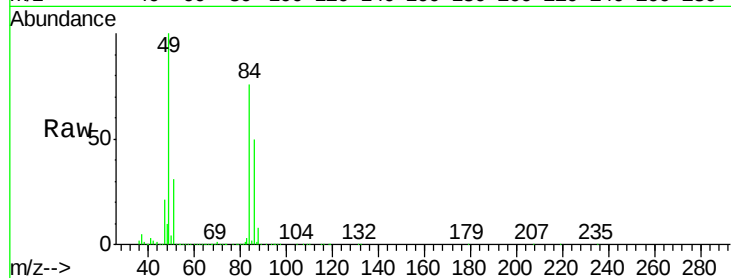




#14
Allvl chloride
Concen: 6.06 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.13 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

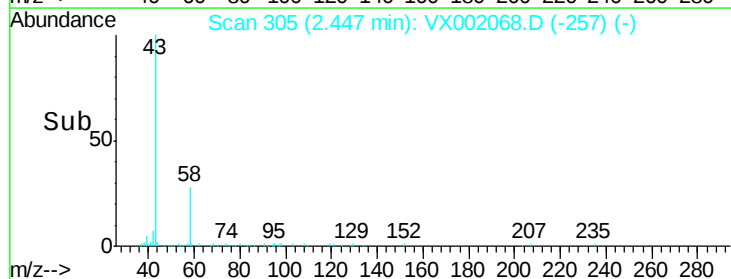
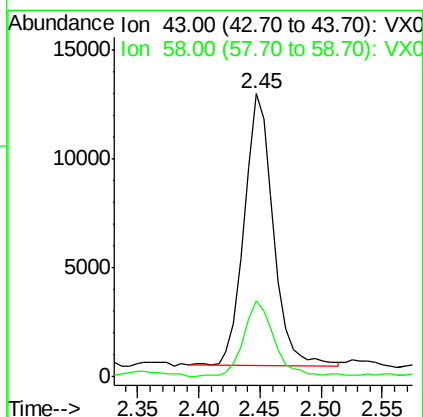
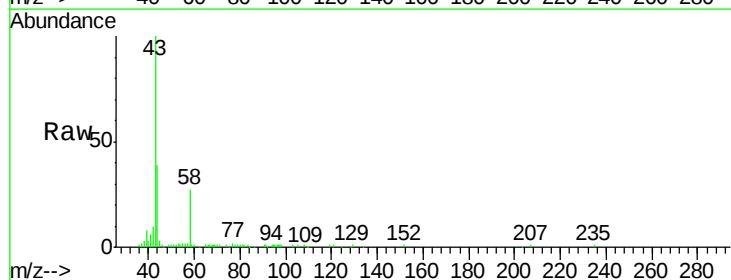
Instrument :
MSVOA_X
ClientSampleId :

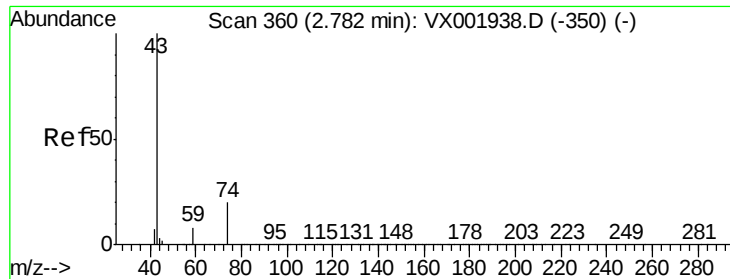
Tot Ion: 41 Resp: 47248
Ion Ratio Lower Upper
41 100
39 1.2 54.3 81.5#
76 0.0 24.2 36.4#



#16
Acetone
Concen: 9.41 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

Tgt Ion: 43 Resp: 20668
Ion Ratio Lower Upper
43 100
58 27.4 22.3 33.5

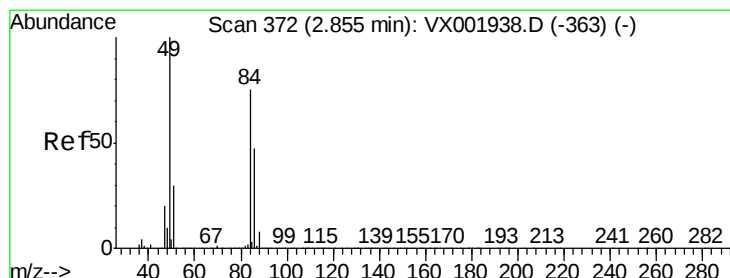
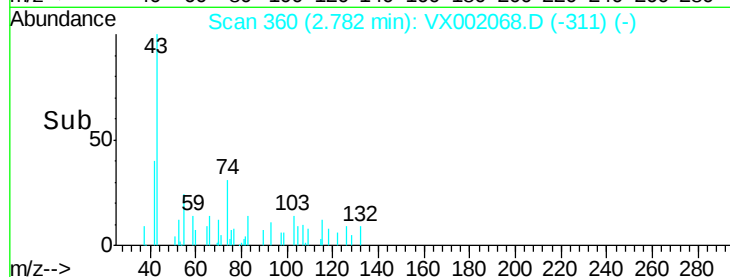
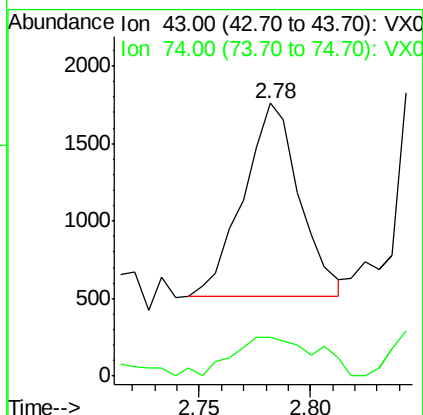
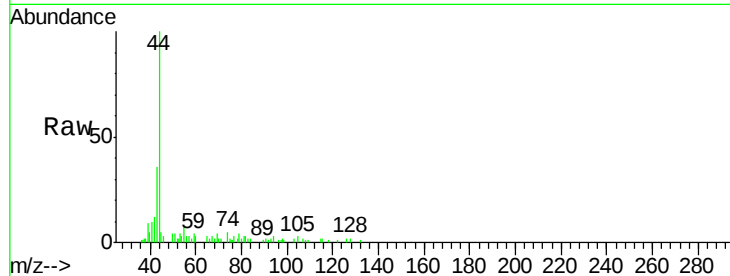




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

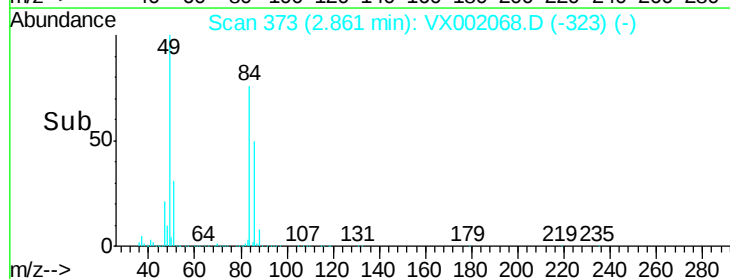
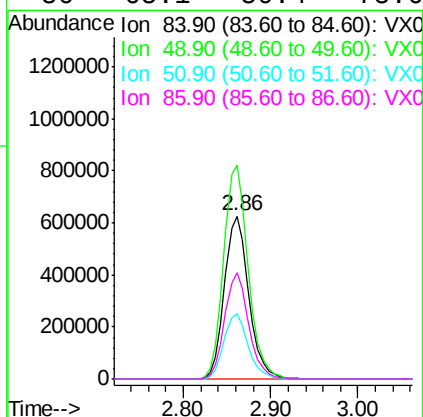
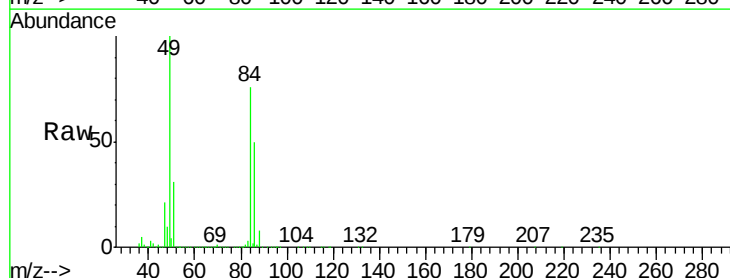
Instrument :
MSVOA_X
ClientSampleId :

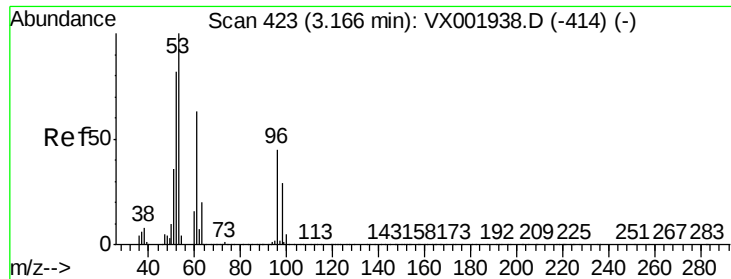
Tot Ion: 43 Resp: 2173
Ion Ratio Lower Upper
43 100
74 30.7 16.8 25.2#



#20
Methylene Chloride
Concen: 326.77 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

Tgt Ion: 84 Resp: 1207782
Ion Ratio Lower Upper
84 100
49 131.4 107.2 160.8
51 40.2 32.4 48.6
86 65.1 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.18 min Scan# 425

Delta R.T. 0.01 min

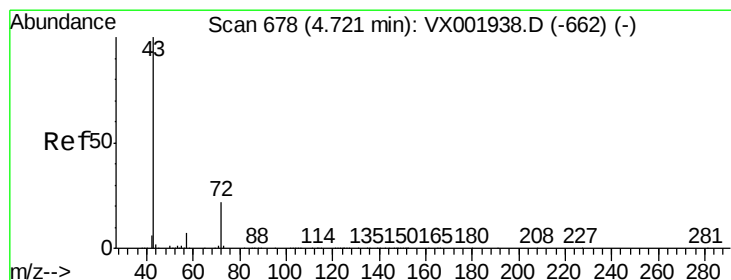
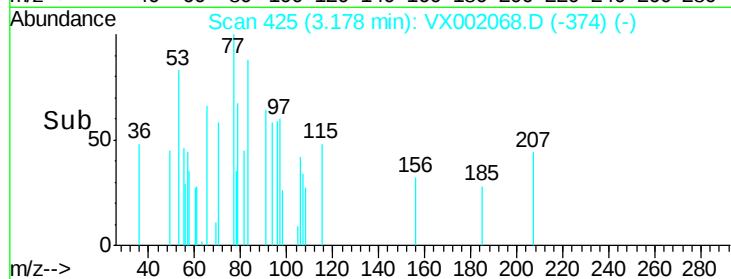
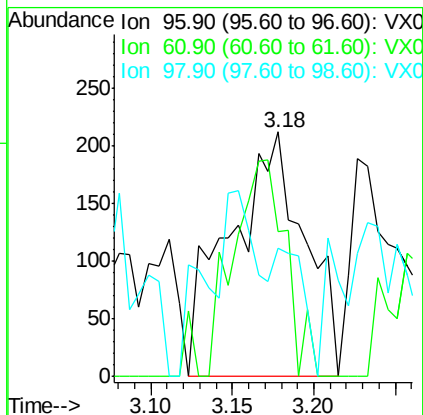
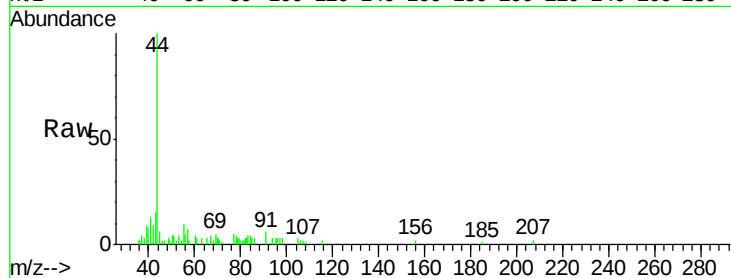
Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 679

Ion	Ratio	Lower	Upper
96	100		
61	59.4	113.3	169.9#
98	13.2	51.7	77.5#



#25

2-Butanone

Concen: 0.89 ug/l

RT: 4.71 min Scan# 677

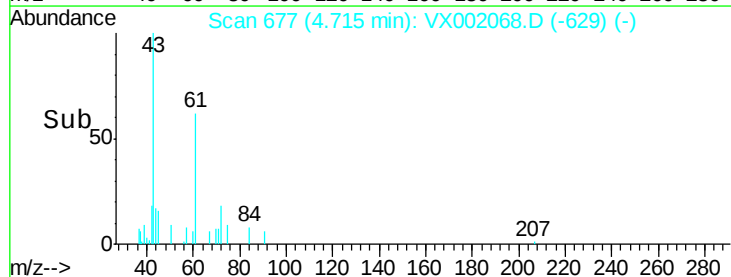
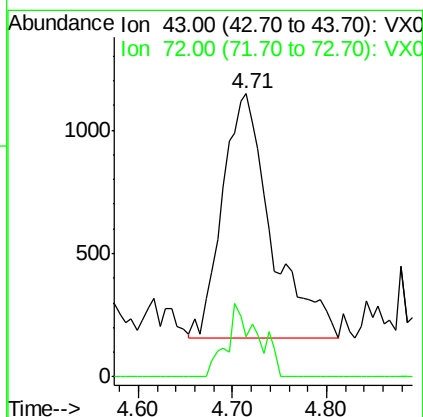
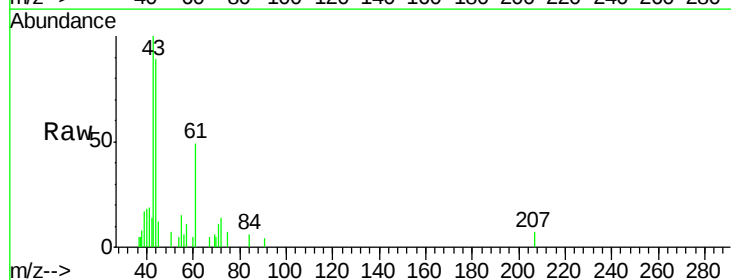
Delta R.T. -0.01 min

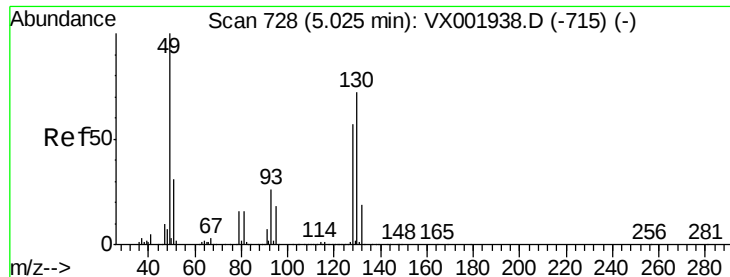
Lab File: VX002068.D

Acq: 27 May 2018 15:06

Tgt Ion: 43 Resp: 3592

Ion	Ratio	Lower	Upper
43	100		
72	16.5	17.9	26.9#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

Delta R.T. 0.01 min

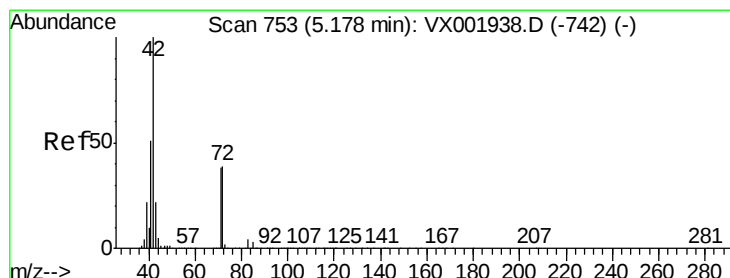
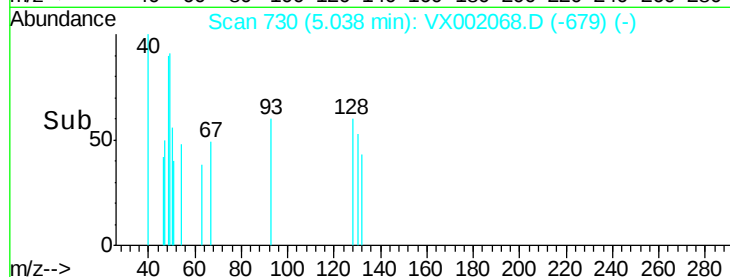
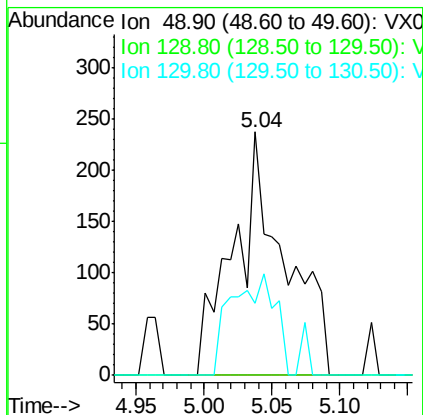
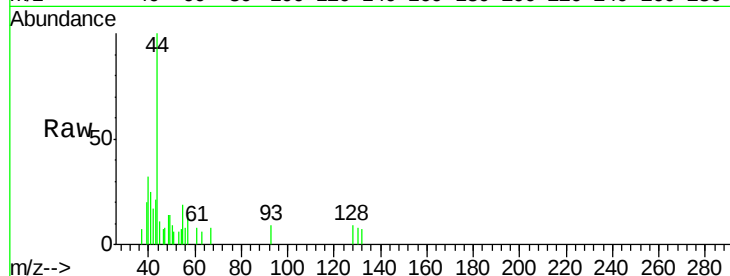
Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 623

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	21.8	59.4	89.2#



#29

Tetrahydrofuran

Concen: 0.40 ug/l

RT: 5.17 min Scan# 752

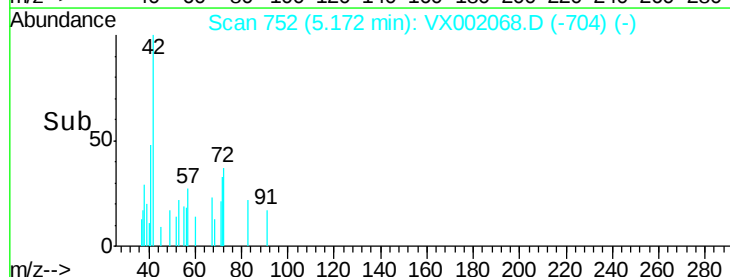
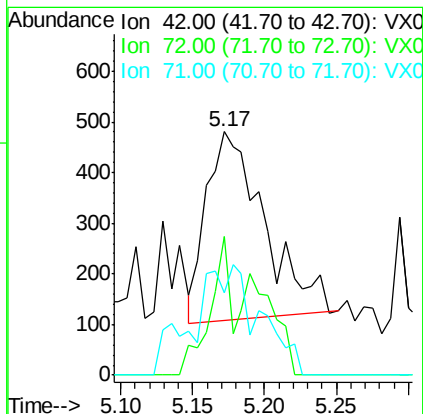
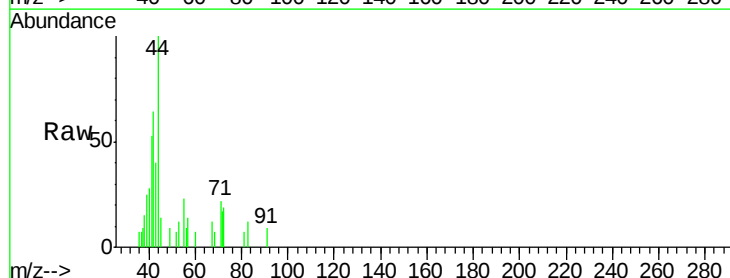
Delta R.T. -0.01 min

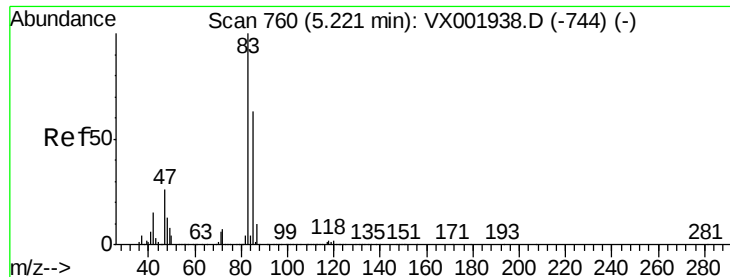
Lab File: VX002068.D

Acq: 27 May 2018 15:06

Tgt Ion: 42 Resp: 1042

Ion	Ratio	Lower	Upper
42	100		
72	29.8	31.4	47.0#
71	58.3	29.5	44.3#

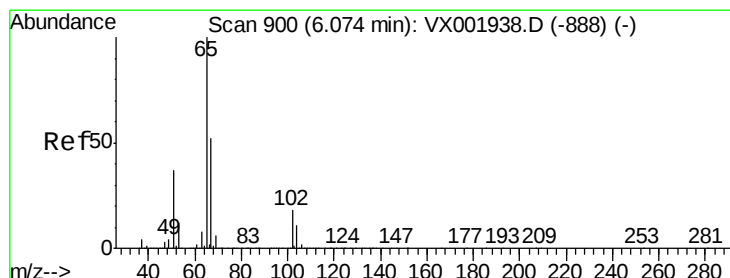
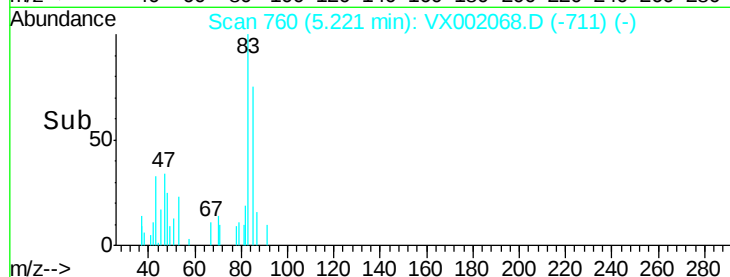
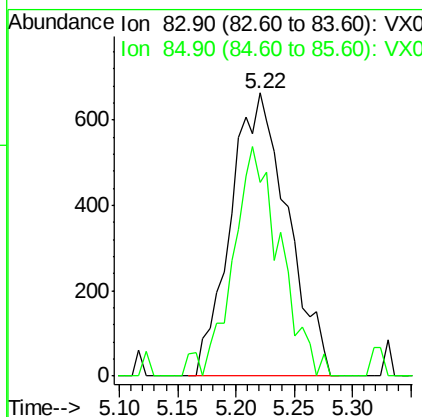
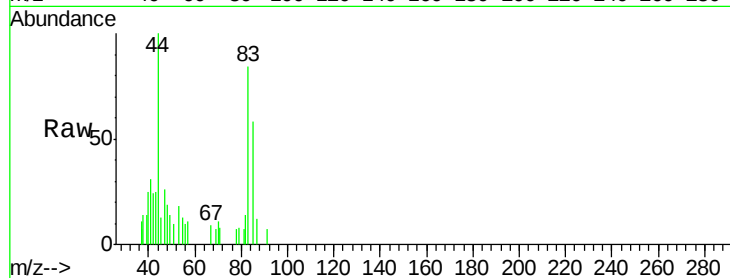




#30
Chloroform
Concen: 0.27 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

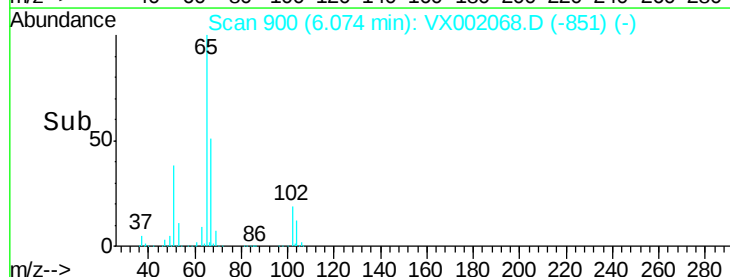
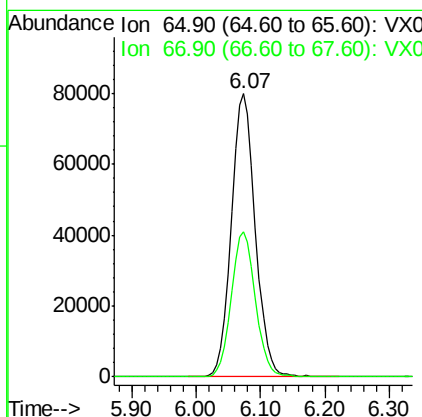
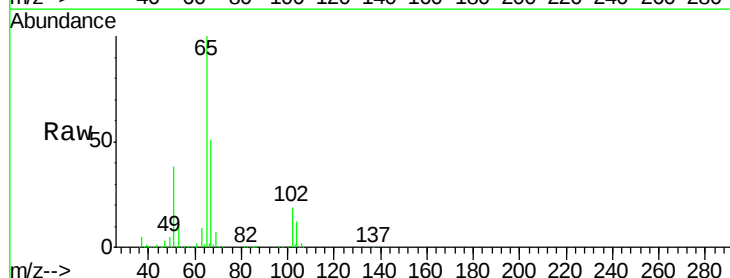
Instrument :
MSVOA_X
ClientSampled :

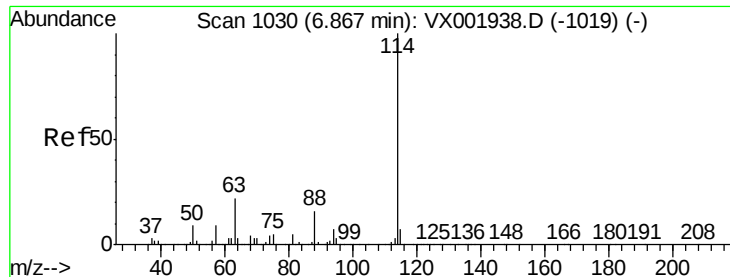
Tot Ion: 83 Resp: 2261
Ion Ratio Lower Upper
83 100
85 68.5 50.9 76.3



#33
1,2-Dichloroethane-d4
Concen: 36.55 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

Tgt Ion: 65 Resp: 208056
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

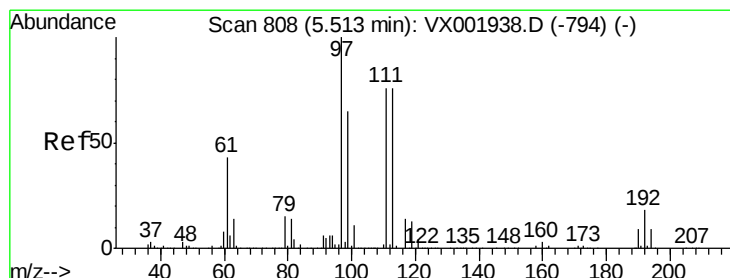
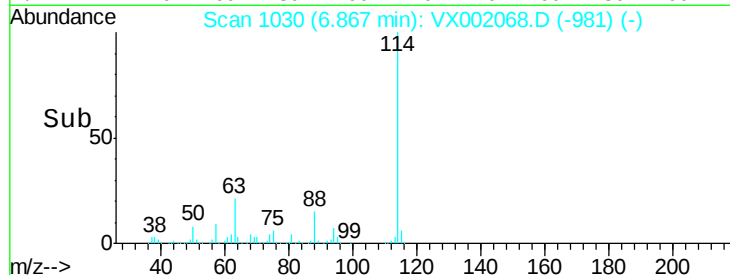
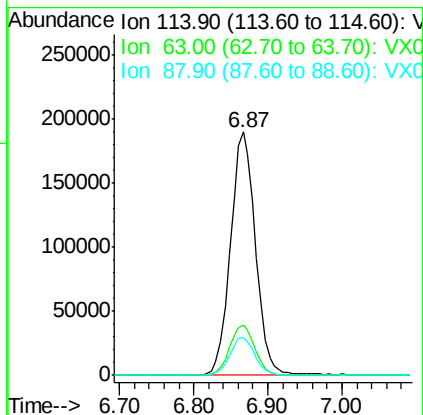
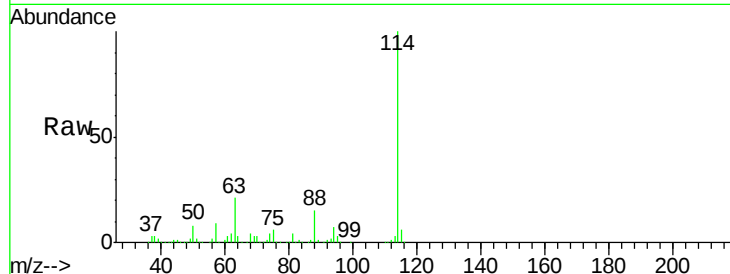
Delta R.T. -0.00 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	114	Resp:	447537
Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	43.2
88	15.3	0.0	31.6



#35

Dibromofluoromethane

Concen: 34.41 ug/l

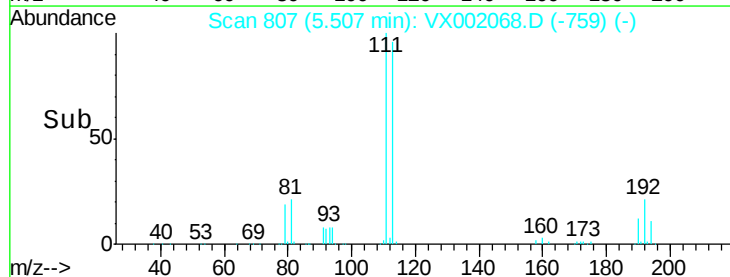
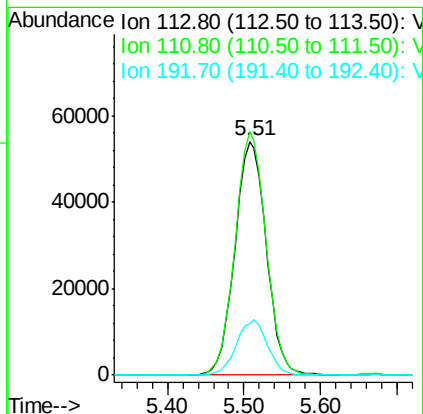
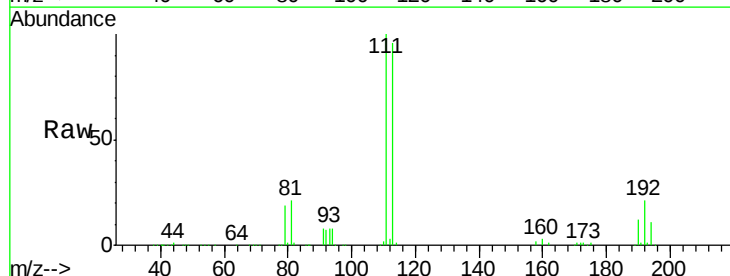
RT: 5.51 min Scan# 807

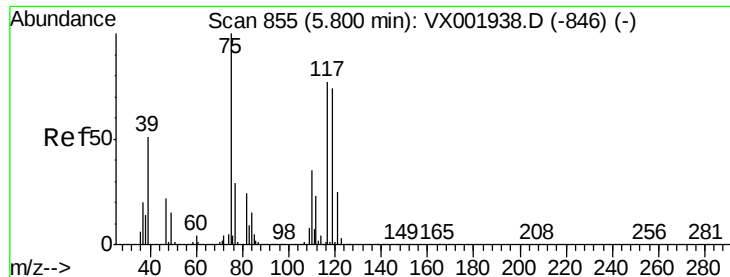
Delta R.T. -0.01 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Tgt Ion:	113	Resp:	153994
Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.0	123.0
192	23.6	18.9	28.3





#36

1,1-Dichloropropene

Concen: 3.60 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :
MSVOA_X
ClientSampled :

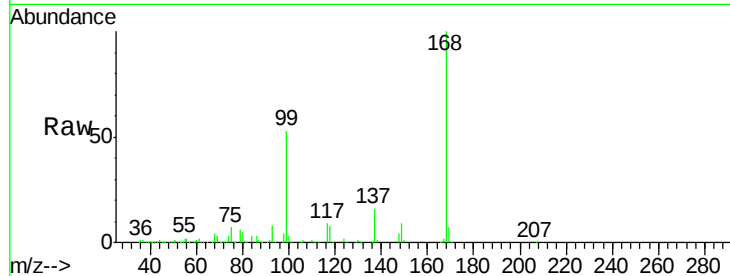
Tot Ion: 75 Resp: 22428

Ion Ratio Lower Upper

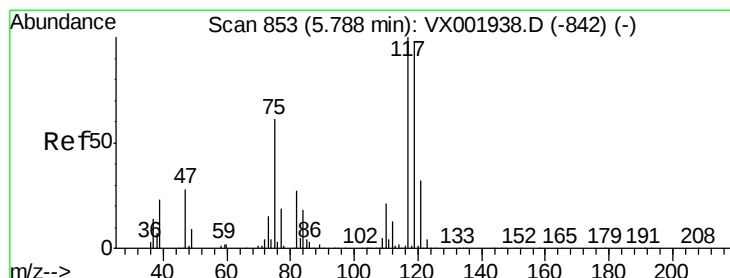
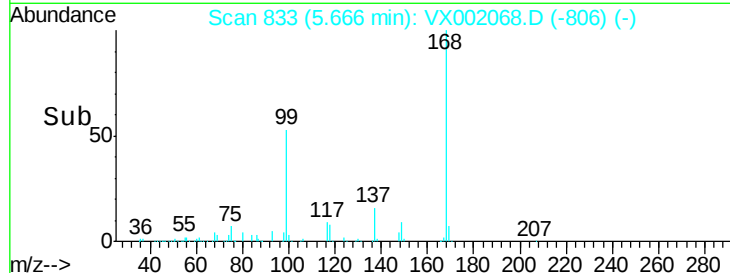
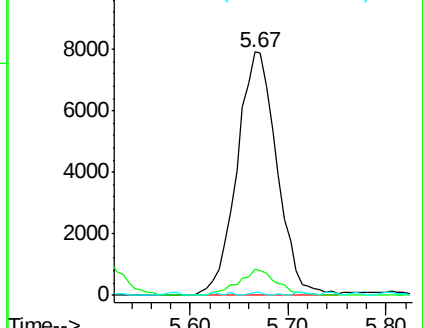
75 100

110 10.3 17.4 52.2#

77 0.4 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: 4.10 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

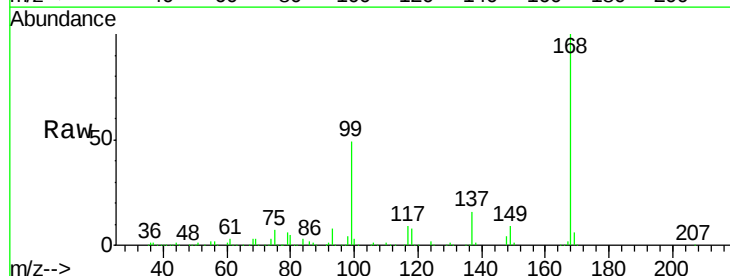
Tgt Ion:117 Resp: 29775

Ion Ratio Lower Upper

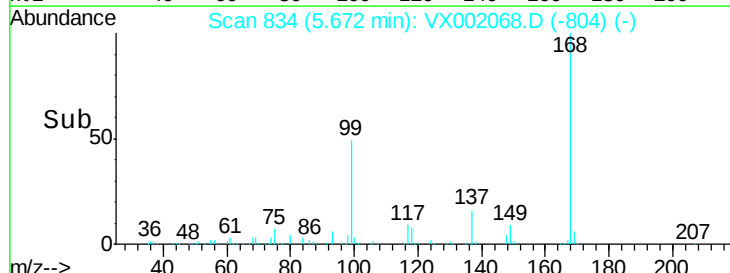
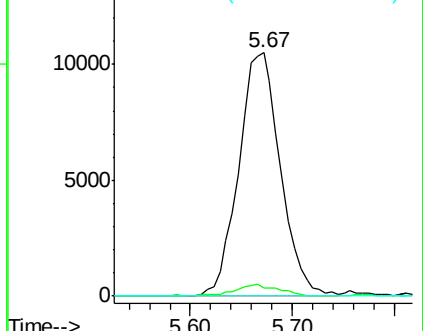
117 100

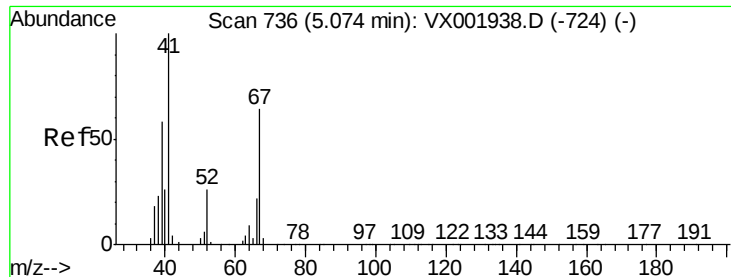
119 3.6 78.5 117.7#

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

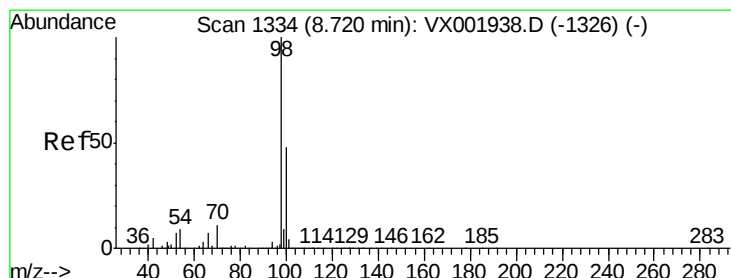
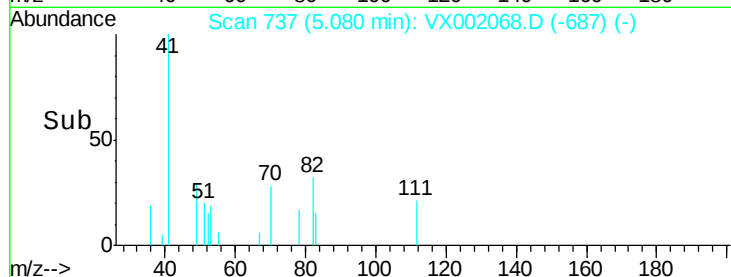
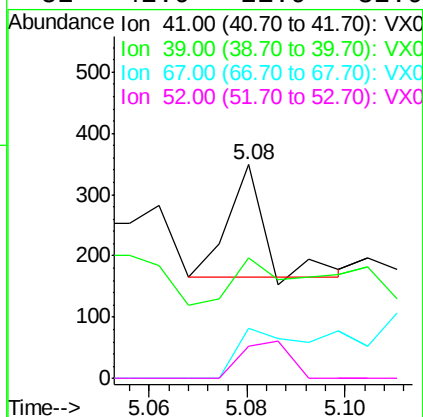
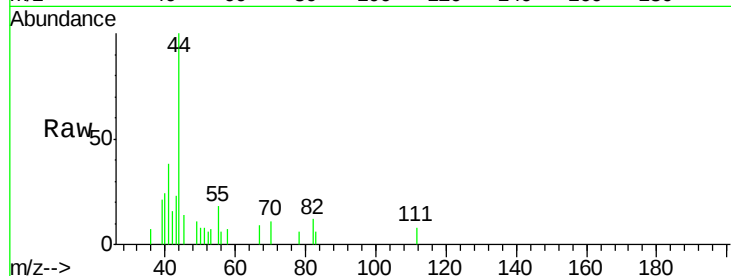




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.08 min Scan# 737
Delta R.T. 0.01 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

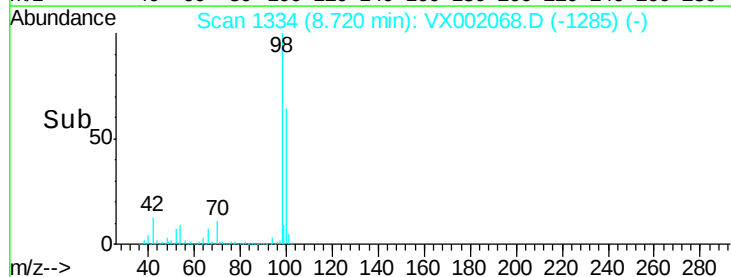
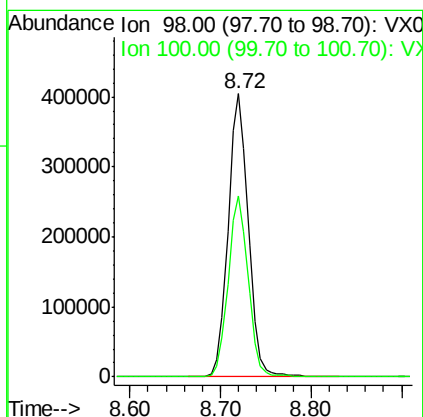
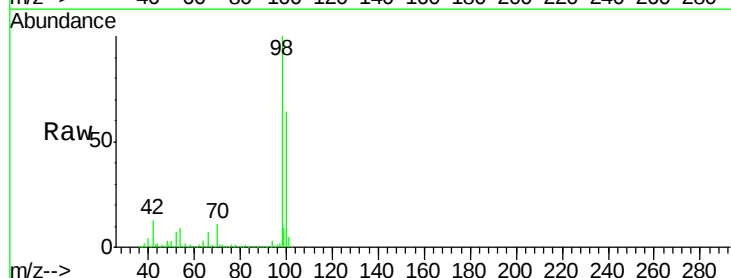
Instrument :
MSVOA_X
ClientSampleId :

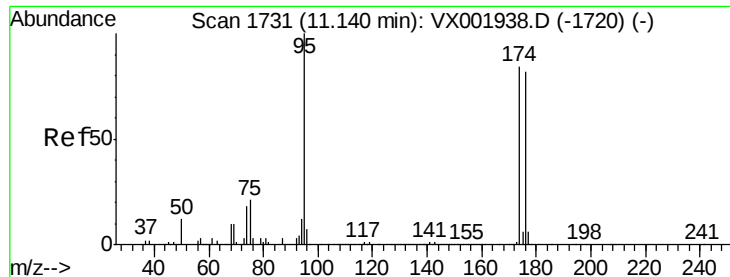
Tot Ion:	41	Resp:	98
Ion	Ratio	Lower	Upper
41	100		
39	67.3	46.0	69.0
67	77.6	50.6	75.8#
52	42.9	21.9	32.9#



#50
Toluene-d8
Concen: 39.15 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

Tgt Ion:	98	Resp:	634277
Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.5	77.3





#62

4-Bromofluorobenzene

Concen: 35.96 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :

MSVOA_X

ClientSampleId :

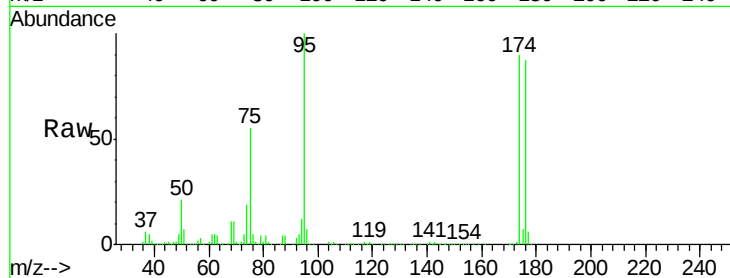
Tot Ion: 95 Resp: 227977

Ion Ratio Lower Upper

95 100

174 92.8 0.0 178.8

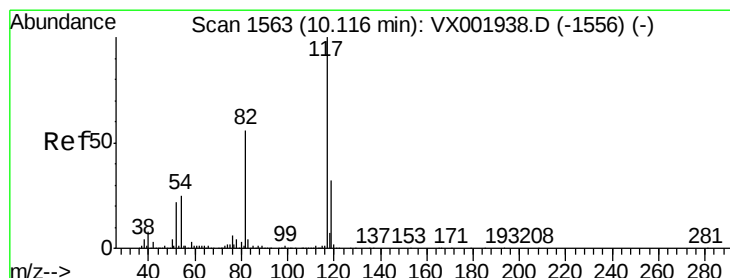
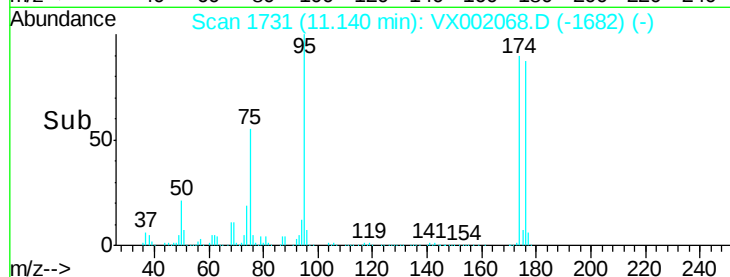
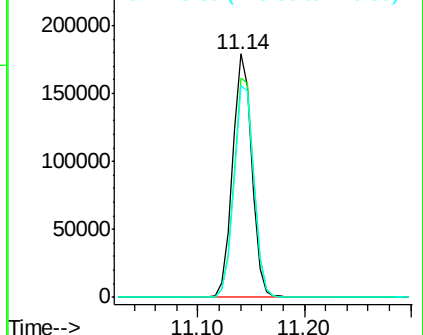
176 90.0 0.0 175.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

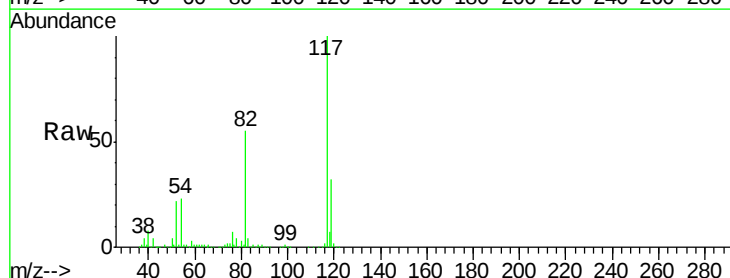
Tgt Ion: 117 Resp: 402930

Ion Ratio Lower Upper

117 100

82 55.3 44.8 67.2

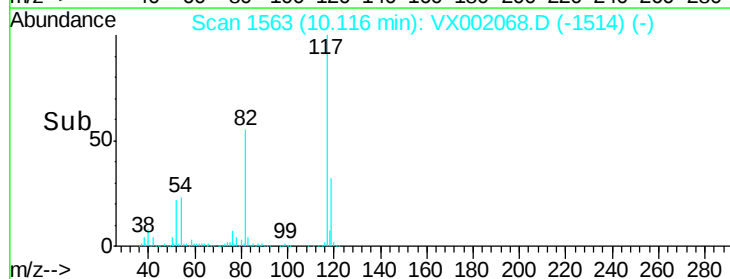
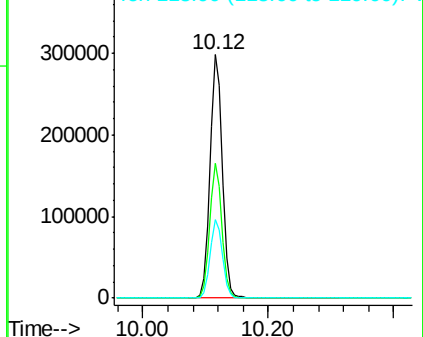
119 32.1 25.5 38.3

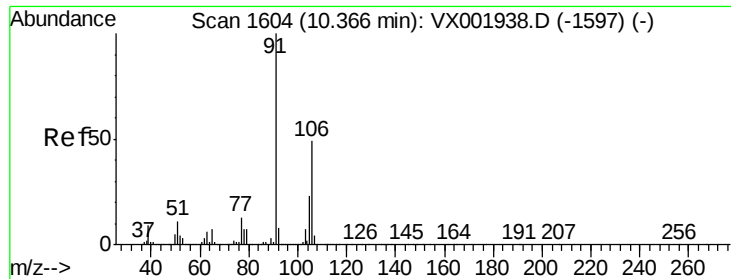


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

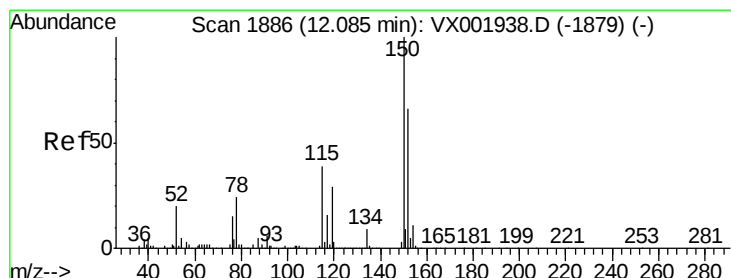
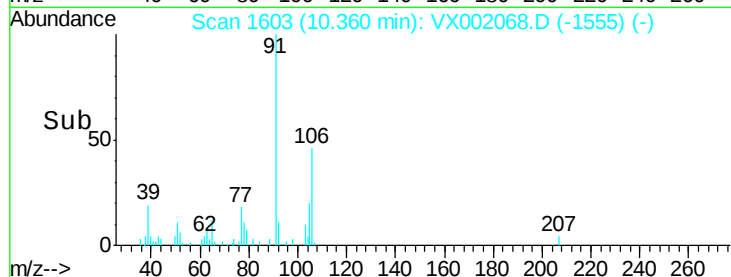
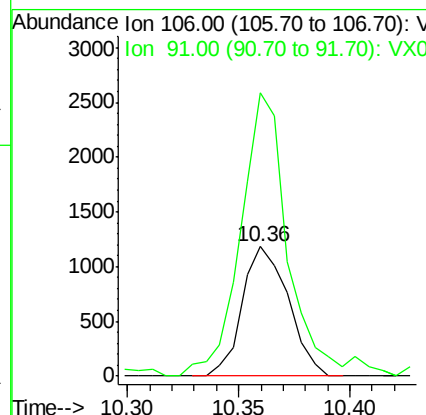
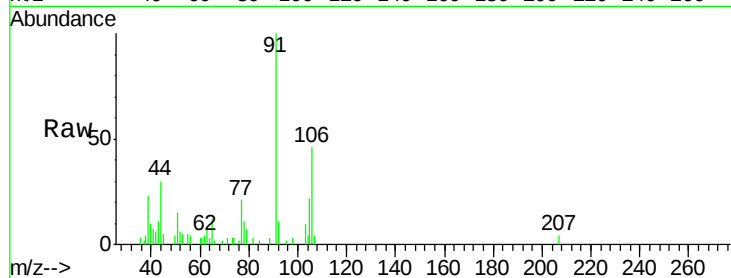




#68
m/p-Xvlenes
Concen: 0.20 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

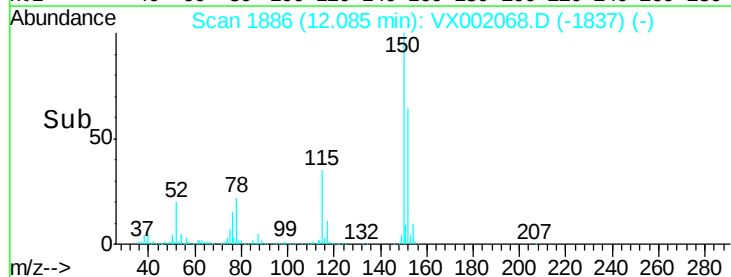
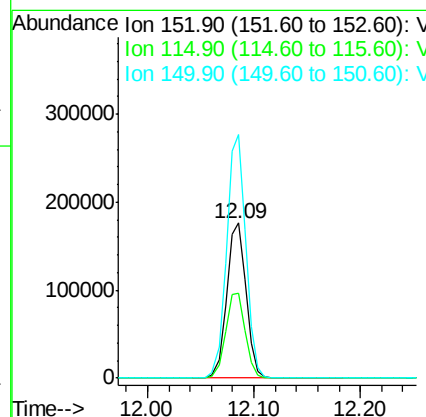
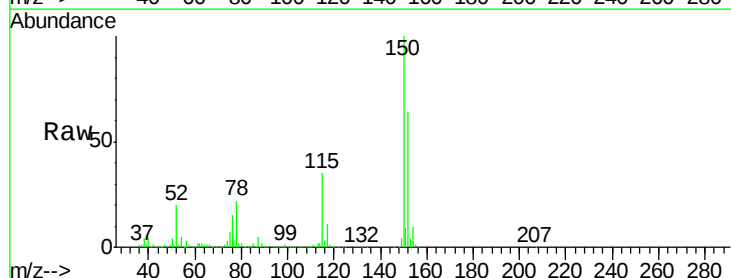
Instrument :
MSVOA_X
ClientSampleId :

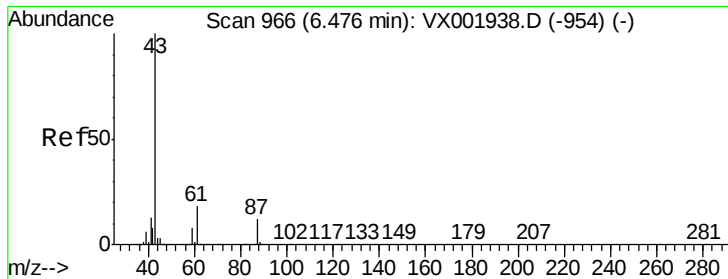
Tot Ion:106 Resp: 1704
Ion Ratio Lower Upper
106 100
91 227.5 165.0 247.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002068.D
Acq: 27 May 2018 15:06

Tgt Ion:152 Resp: 223354
Ion Ratio Lower Upper
152 100
115 55.5 42.3 126.8
150 155.9 0.0 351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX002068.D

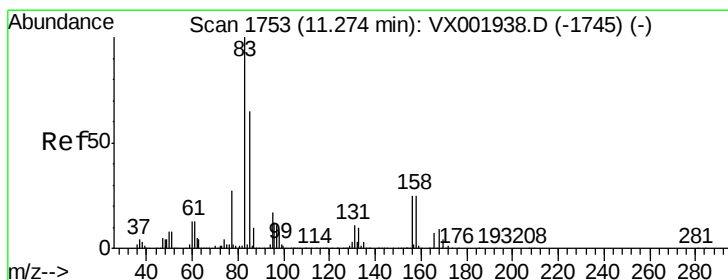
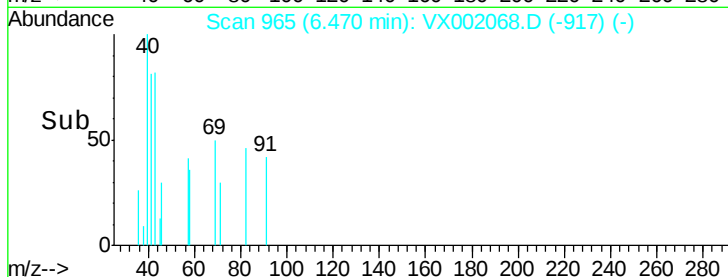
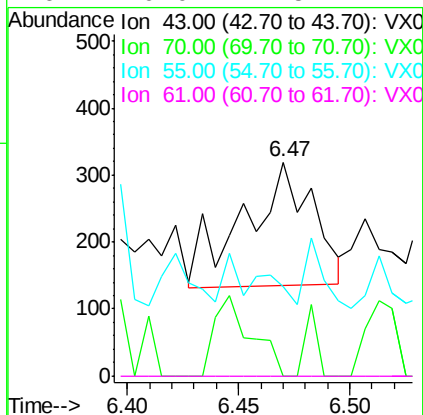
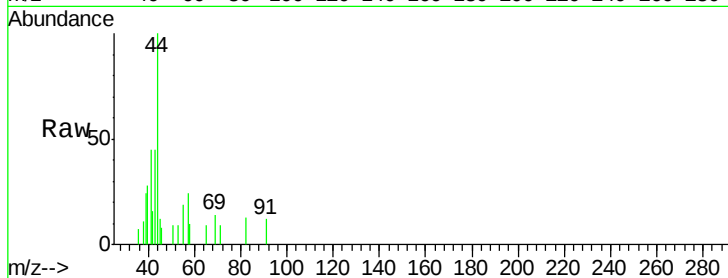
Acq: 27 May 2018 15:06

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	43	Resp:	398
Ion	Ratio	Lower	Upper
43	100		
70	9.8	0.1	0.1#
55	14.8	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

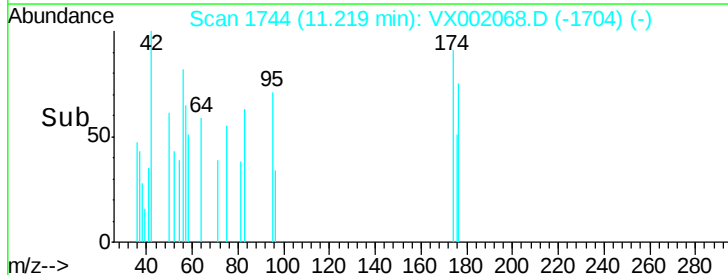
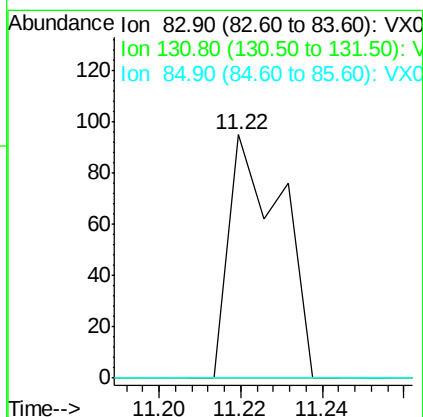
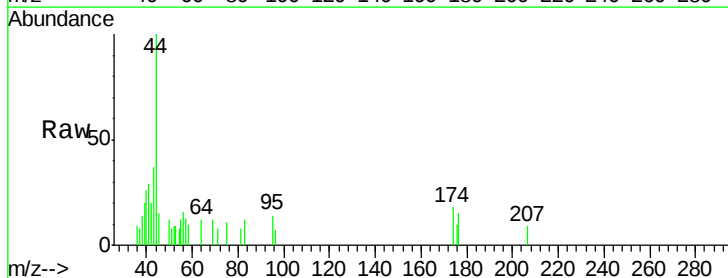
RT: 11.22 min Scan# 1744

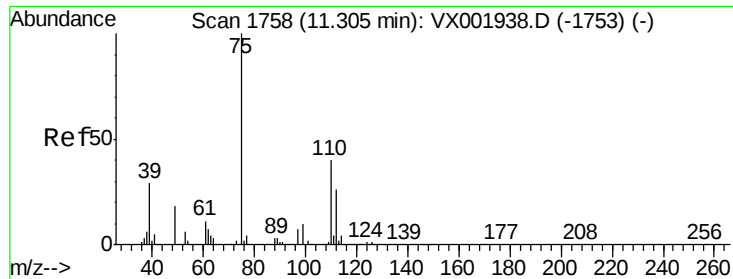
Delta R.T. -0.05 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Tgt Ion:	83	Resp:	85
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: 22.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :

MSVOA_X

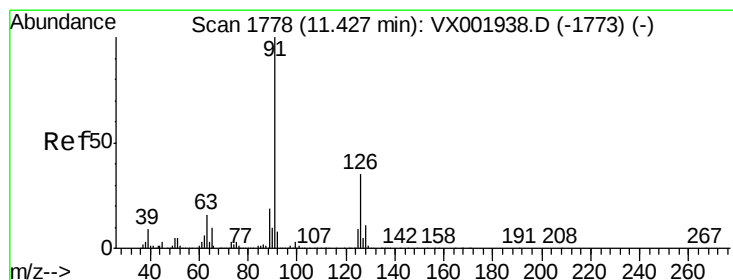
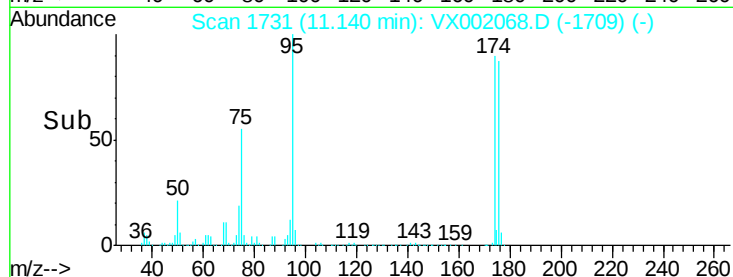
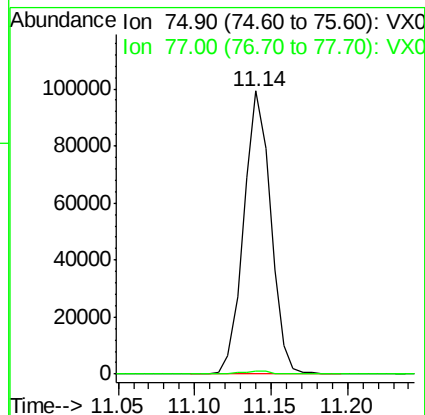
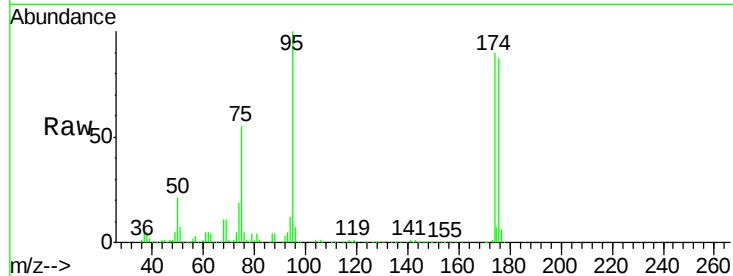
ClientSampleId :

Tot Ion: 75 Resp: 121619

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.51 min Scan# 1792

Delta R.T. 0.09 min

Lab File: VX002068.D

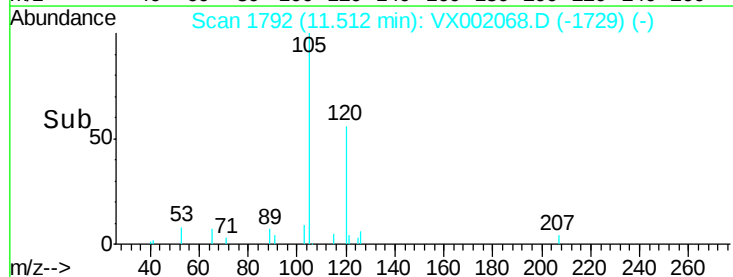
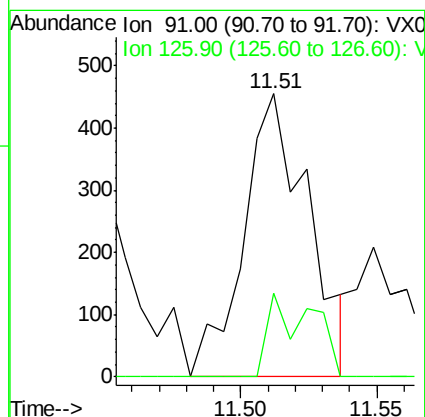
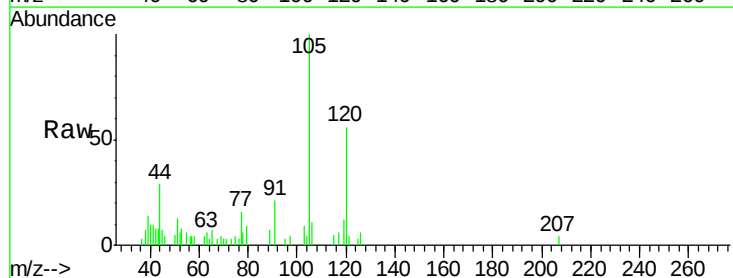
Acq: 27 May 2018 15:06

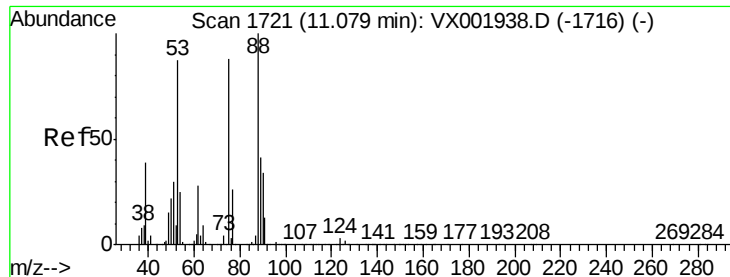
Tgt Ion: 91 Resp: 753

Ion Ratio Lower Upper

91 100

126 19.8 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 54.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :

MSVOA_X

ClientSampleId :

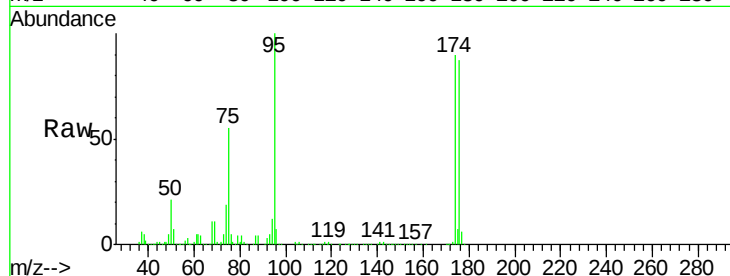
Tot Ion: 75 Resp: 121619

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

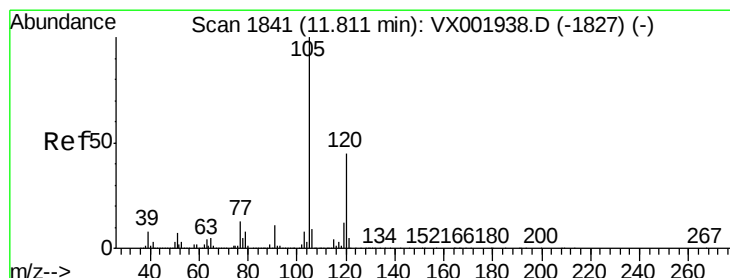
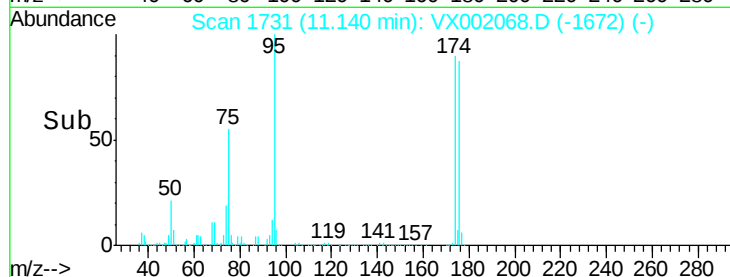
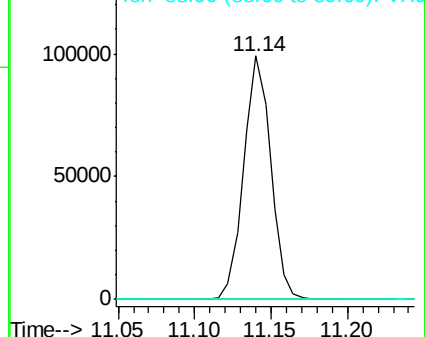
89 0.0 39.4 59.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.46 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX002068.D

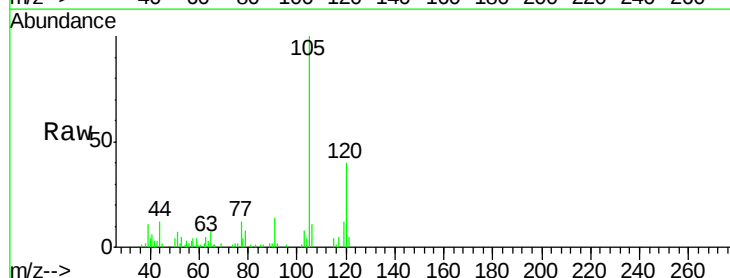
Acq: 27 May 2018 15:06

Tgt Ion:105 Resp: 7661

Ion Ratio Lower Upper

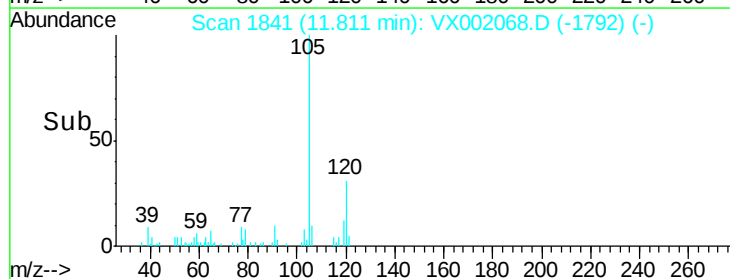
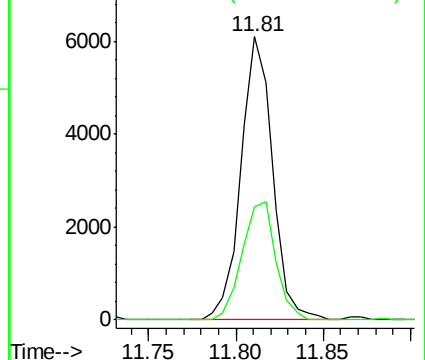
105 100

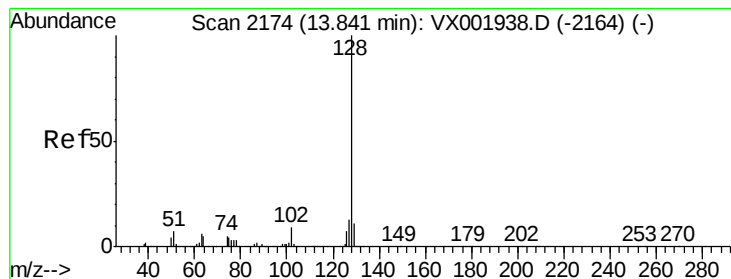
120 44.1 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 24.68 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002068.D

Acq: 27 May 2018 15:06

Instrument :

MSVOA_X

ClientSampleId :

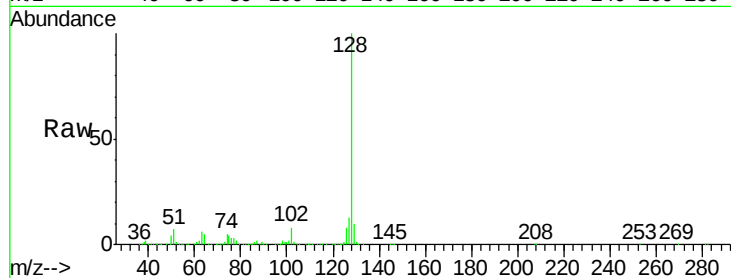
Tot Ion:128 Resp: 497816

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

129 10.9 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

