

Data Path : W:\HPCHEM1\MSVOA X\DATA\X060218\
 Data File : VX002241.D
 Acq On : 02 Jun 2018 16:03
 Operator : JC/MD
 Sample : J3119-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 05:07:40 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	245135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	352106	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	319888	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	173062	50.00	ug/l	0.00

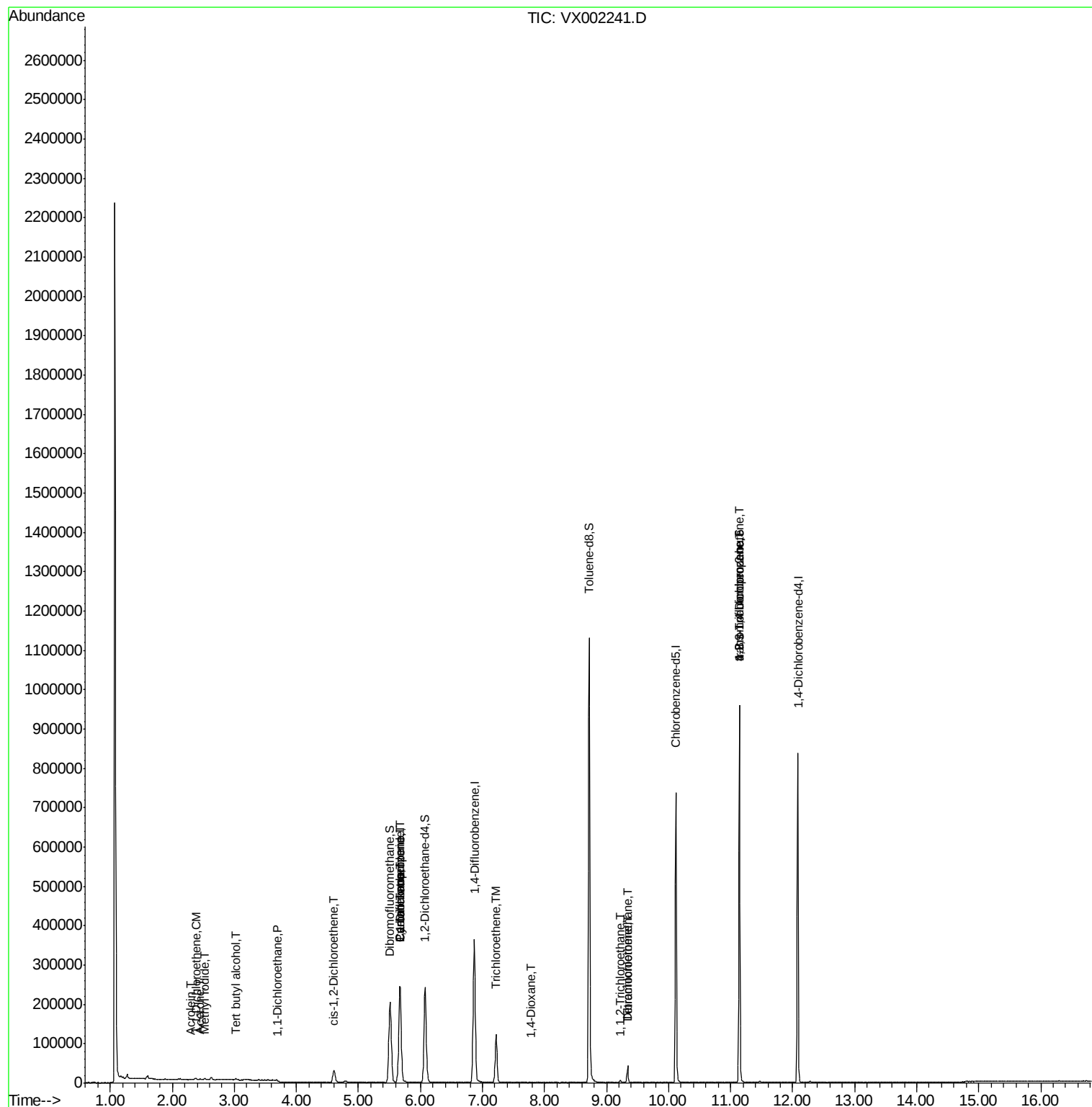
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	227696	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
35) Dibromofluoromethane	5.51	113	166177	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
50) Toluene-d8	8.72	98	654418	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	11.14	95	225451	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	162	Below Cal	#	41
10) Methyl Iodide	2.51	142	2107	0.51	ug/l	# 87
11) Tert butyl alcohol	3.03	59	1680	1.95	ug/l	# 71
12) 1,1-Dichloroethene	2.38	96	1051	0.37	ug/l	# 88
13) Acrolein	2.31	56	202	0.54	ug/l	# 67
16) Acetone	2.45	43	945	0.56	ug/l	# 93
18) Methyl Acetate	2.77	43	124	Below Cal	#	10
20) Methylene Chloride	2.86	84	523	Below Cal	#	62
21) trans-1,2-Dichloroethene	3.17	96	715	Below Cal	#	77
24) 1,1-Dichloroethane	3.70	63	1440	0.25	ug/l	# 83
27) cis-1,2-Dichloroethene	4.60	96	16836	4.52	ug/l	# 97
28) Bromochloromethane	5.03	49	131	Below Cal	#	14
31) Cyclohexane	5.66	56	5484	0.91	ug/l	# 4
36) 1,1-Dichloropropene	5.67	75	17380	3.55	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23335	4.09	ug/l	# 14
41) Methacrylonitrile	5.09	41	49	Below Cal	#	1
44) Trichloroethene	7.21	130	47024	11.25	ug/l	100
49) 1,4-Dioxane	7.79	88	29	0.30	ug/l	# 1
55) 1,1,2-Trichloroethane	9.23	97	1330	0.35	ug/l	# 86
60) Dibromochloromethane	9.34	129	7564	1.67	ug/l	# 11
64) Tetrachloroethene	9.34	164	8091	1.76	ug/l	# 98
74) N-amyl acetate	6.49	43	261	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.35	83	26	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	123350	29.67	ug/l	# 32
79) 2-Chlorotoluene	11.43	91	131	Below Cal	#	69
81) trans-1,4-Dichloro-2-buten	11.14	75	123350	71.32	ug/l	# 10

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

Instrument :
MSVOA_X
ClientSampleId :

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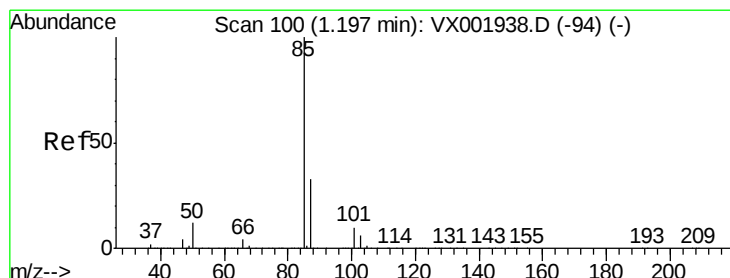
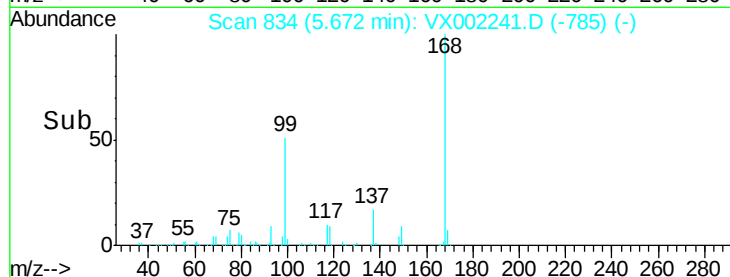
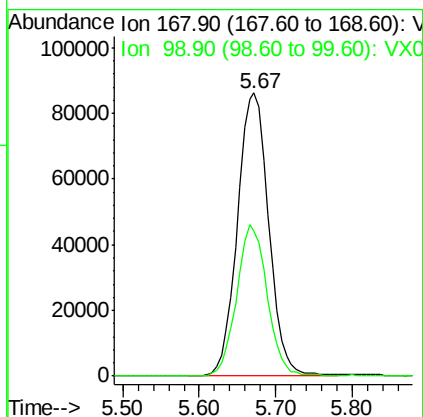
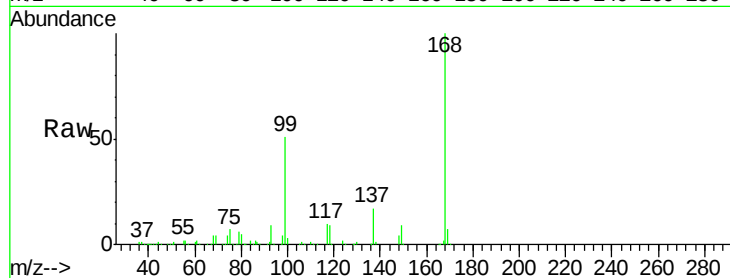


#1

Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.00 min
 Lab File: VX002241.D
 Acq: 02 Jun 2018 16:03

Instrument :
 MSVOA_X
 ClientSampleId :

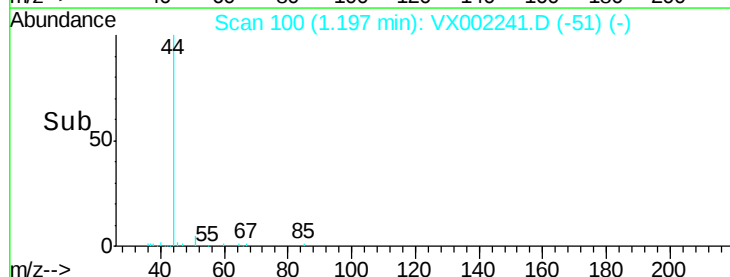
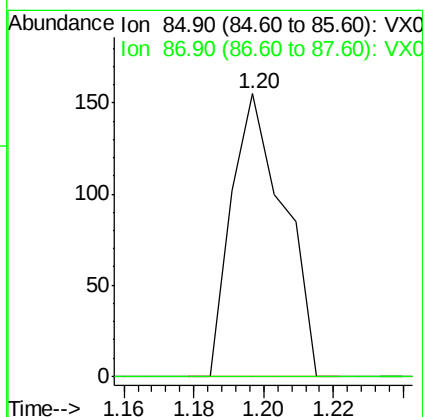
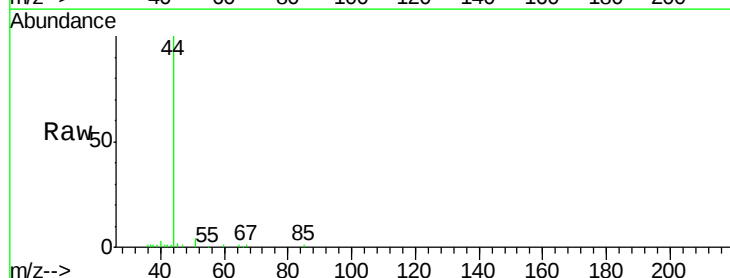
Tot Ion:168 Resp: 245135
 Ion Ratio Lower Upper
 168 100
 99 51.5 41.0 61.4

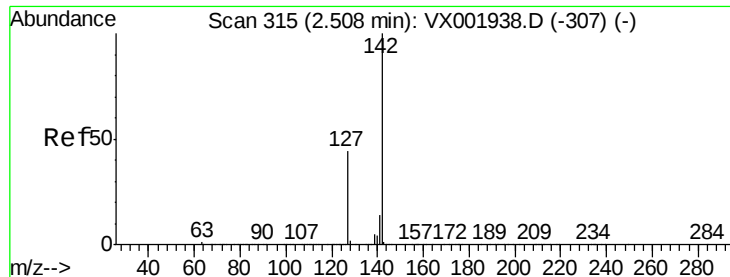


#2

Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.20 min Scan# 100
 Delta R.T. 0.00 min
 Lab File: VX002241.D
 Acq: 02 Jun 2018 16:03

Tgt Ion: 85 Resp: 162
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.7 50.0#

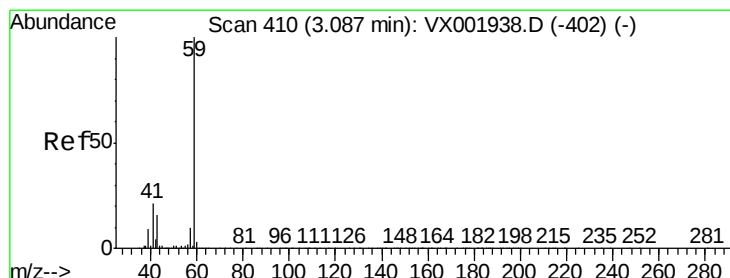
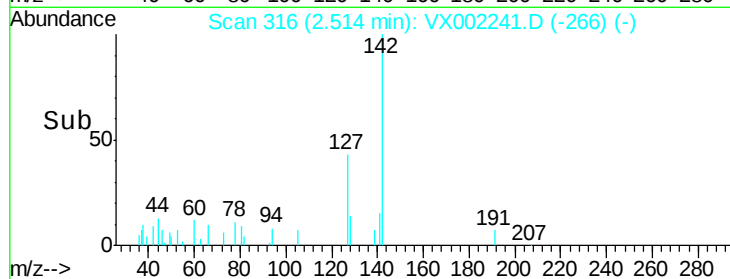
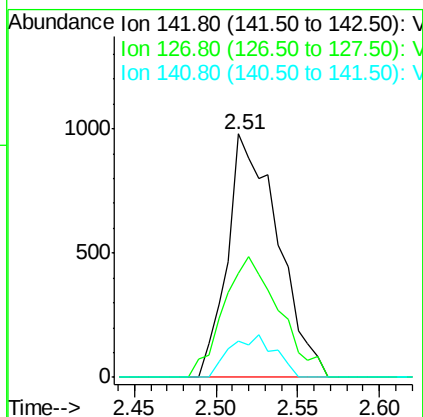
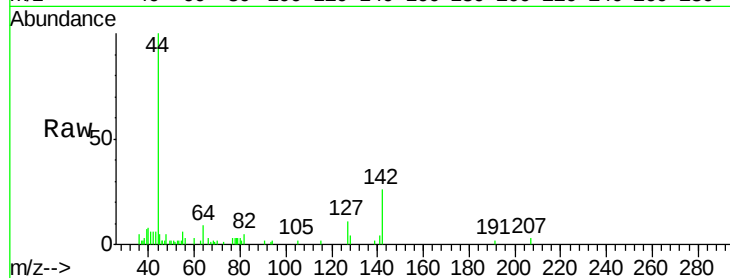




#10
Methvl Iodide
Concen: 0.51 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

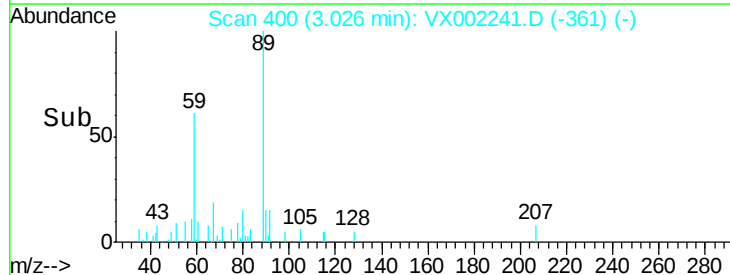
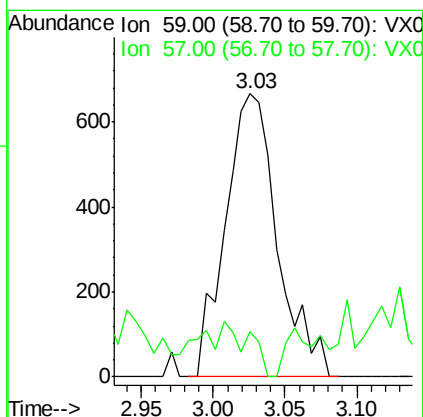
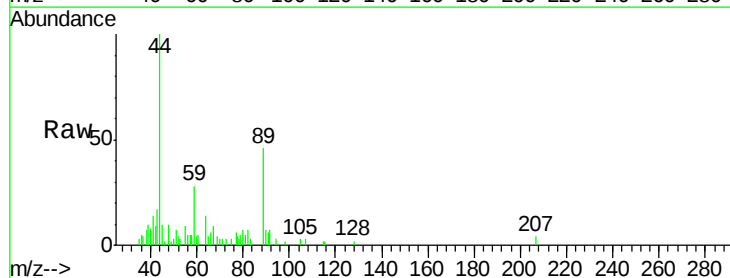
Instrument :
MSVOA_X
ClientSampled :

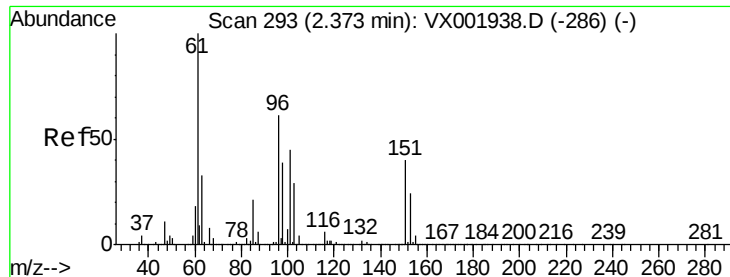
Tot Ion:142 Resp: 2107
Ion Ratio Lower Upper
142 100
127 55.1 35.5 53.3#
141 15.7 11.3 16.9



#11
Tert butyl alcohol
Concen: 1.95 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.06 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

Tgt Ion: 59 Resp: 1680
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#





#12

1,1-Dichloroethene

Concen: 0.37 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :

MSVOA_X

ClientSampled :

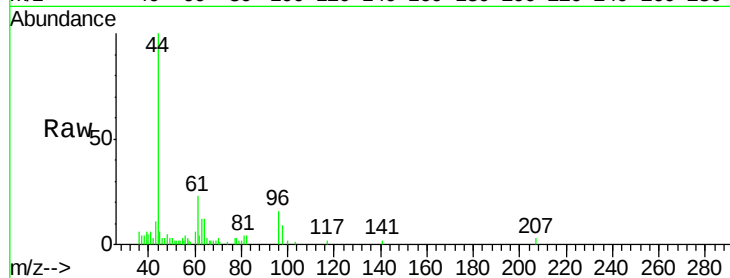
Tot Ion: 96 Resp: 1051

Ion Ratio Lower Upper

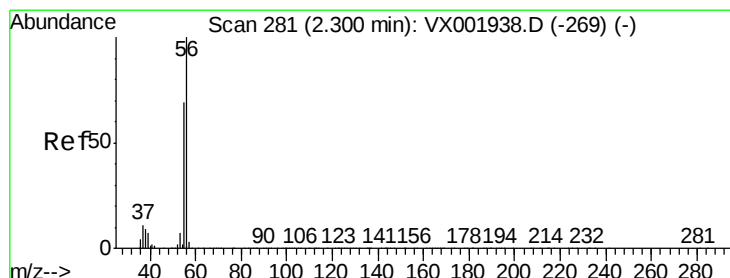
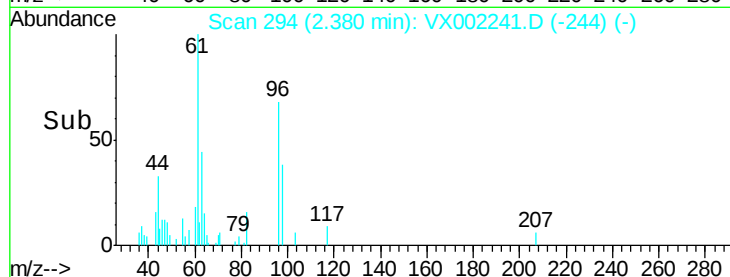
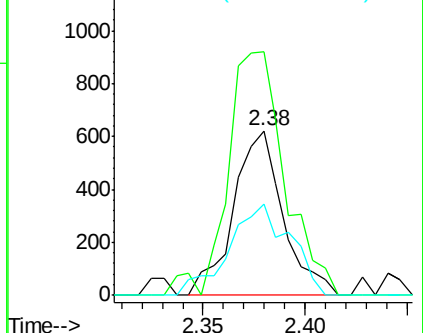
96 100

61 147.9 131.7 197.5

98 55.5 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.54 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002241.D

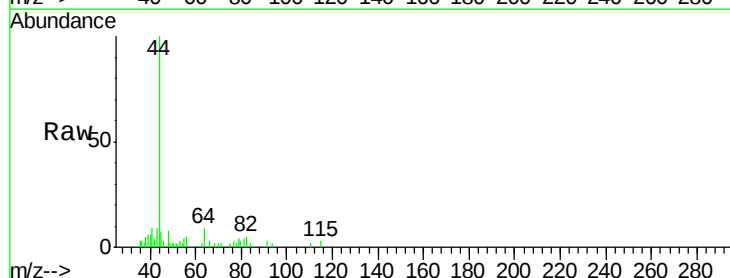
Acq: 02 Jun 2018 16:03

Tgt Ion: 56 Resp: 202

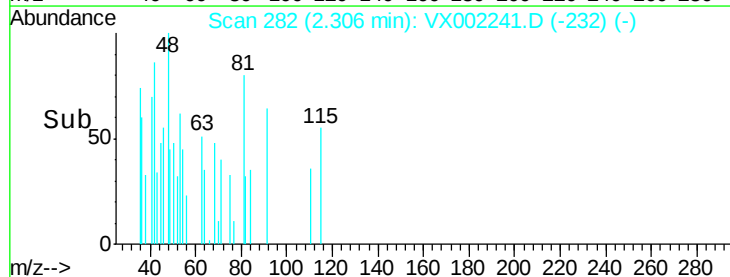
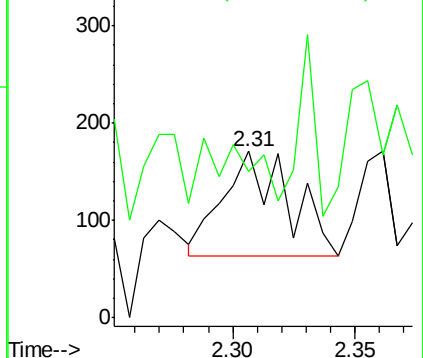
Ion Ratio Lower Upper

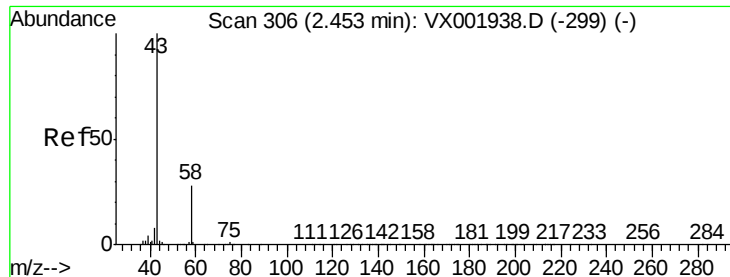
56 100

55 44.1 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.56 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :

MSVOA_X

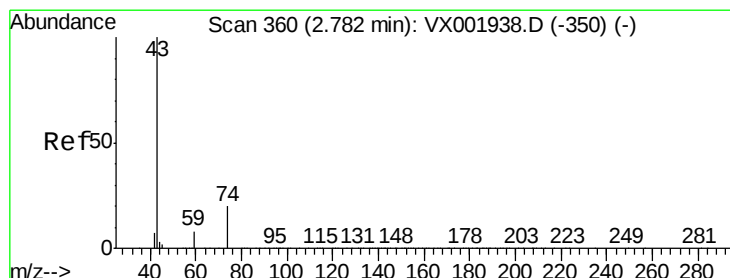
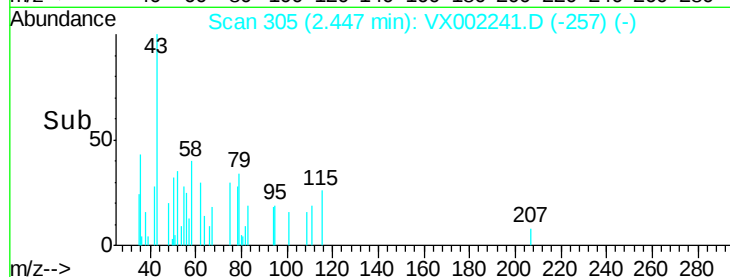
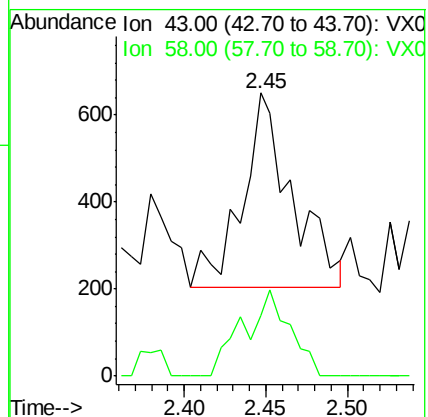
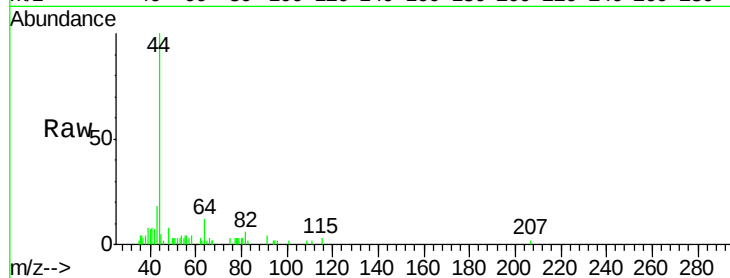
ClientSampleId :

Tot Ion: 43 Resp: 945

Ion Ratio Lower Upper

43 100

58 31.4 22.3 33.5



#18

Methyl Acetate

Concen: Below Cal

RT: 2.77 min Scan# 358

Delta R.T. -0.01 min

Lab File: VX002241.D

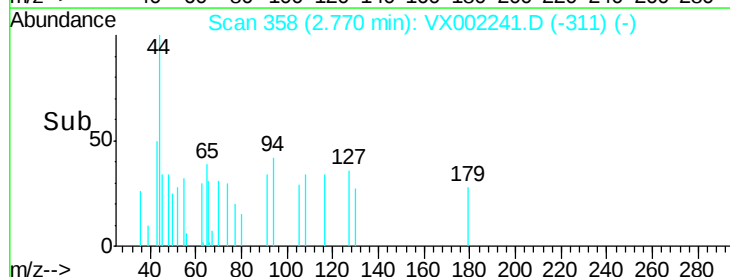
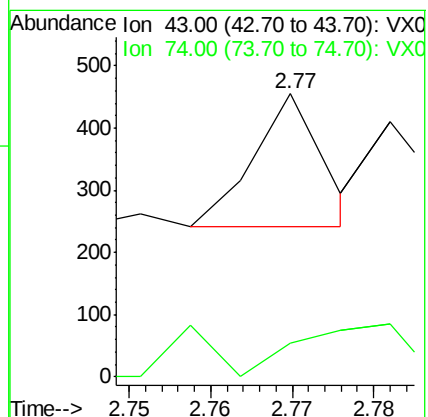
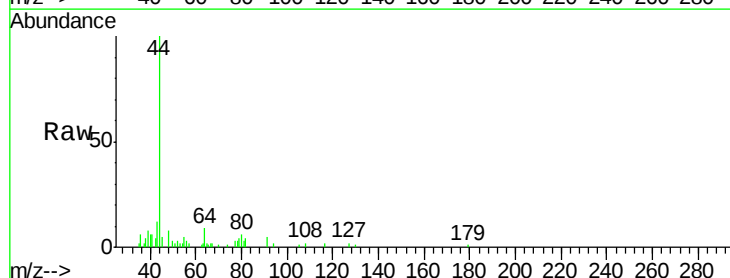
Acq: 02 Jun 2018 16:03

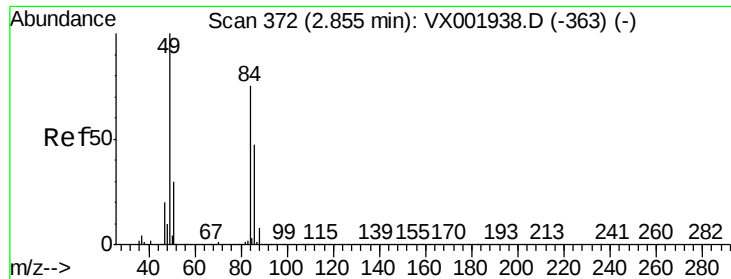
Tgt Ion: 43 Resp: 124

Ion Ratio Lower Upper

43 100

74 62.9 16.8 25.2#

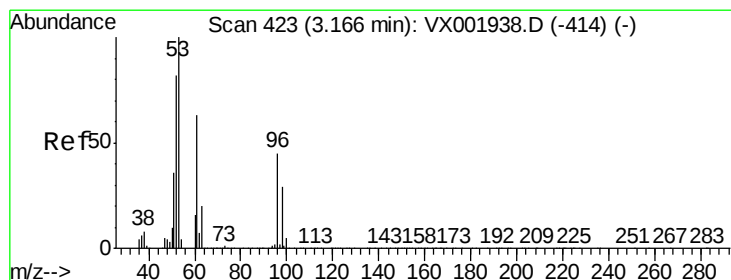
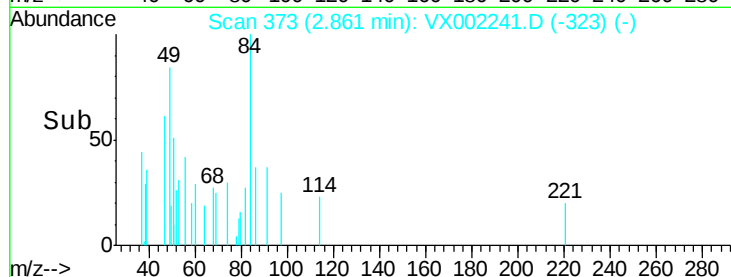
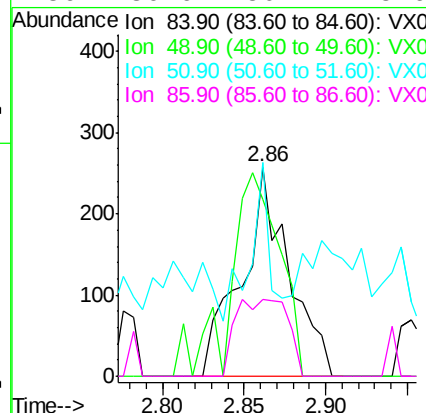
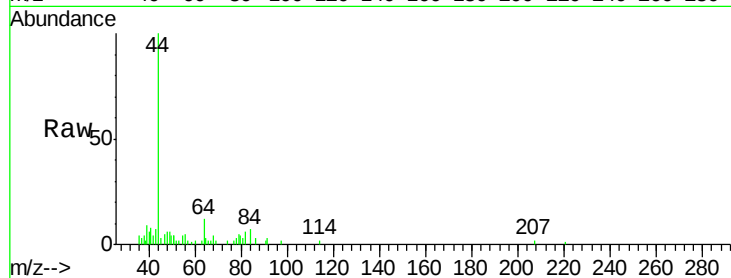




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

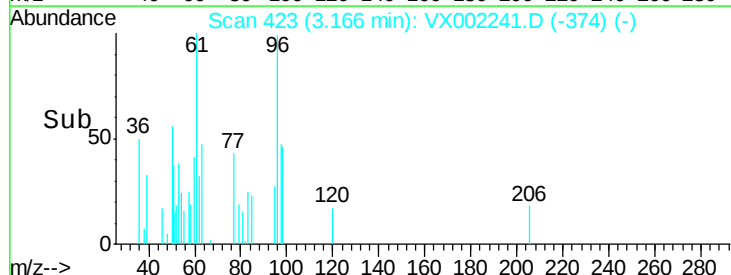
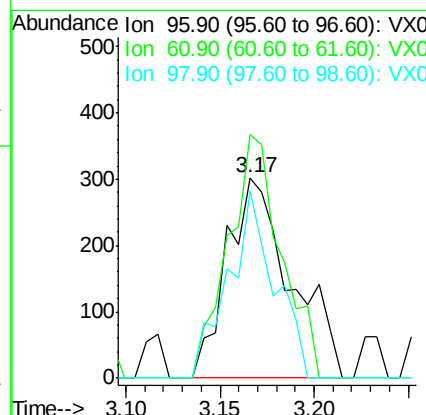
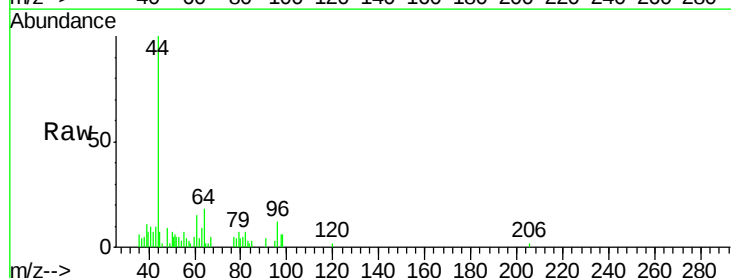
Instrument :
MSVOA_X
ClientSampleId :

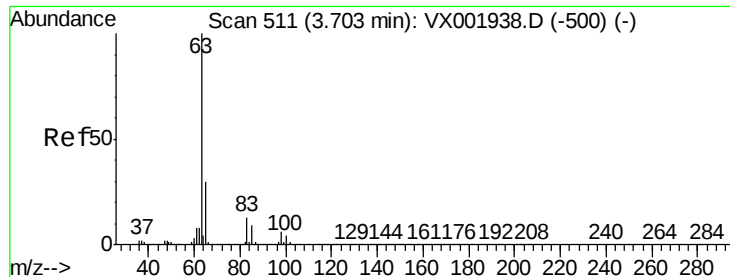
Tot Ion: 84 Resp: 523
Ion Ratio Lower Upper
84 100
49 84.4 107.2 160.8#
51 61.9 32.4 48.6#
86 36.6 50.4 75.6#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

Tgt Ion: 96 Resp: 715
Ion Ratio Lower Upper
96 100
61 121.5 113.3 169.9
98 93.4 51.7 77.5#





#24

1,1-Dichloroethane

Concen: 0.25 ug/l

RT: 3.70 min Scan# 510

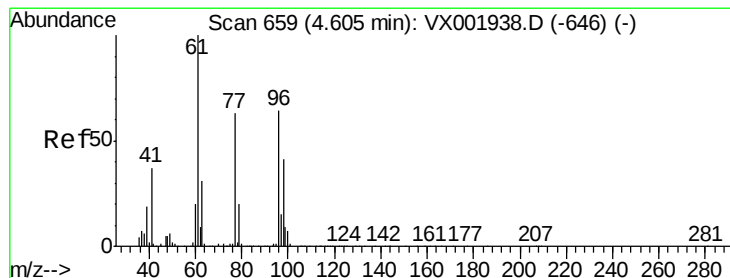
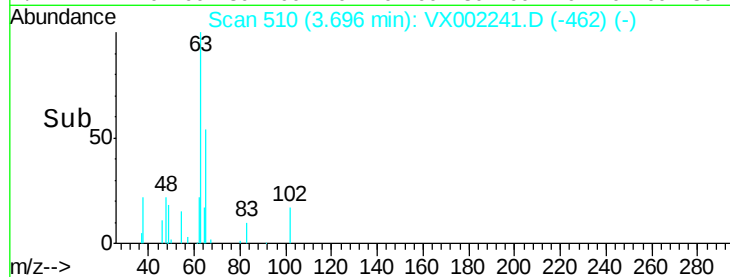
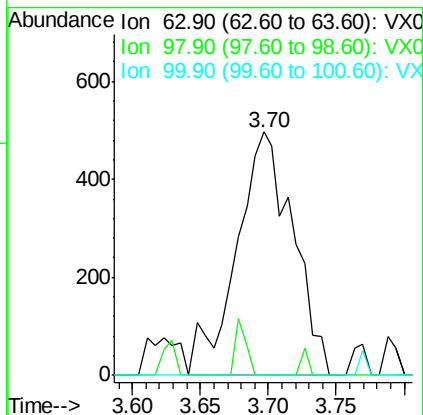
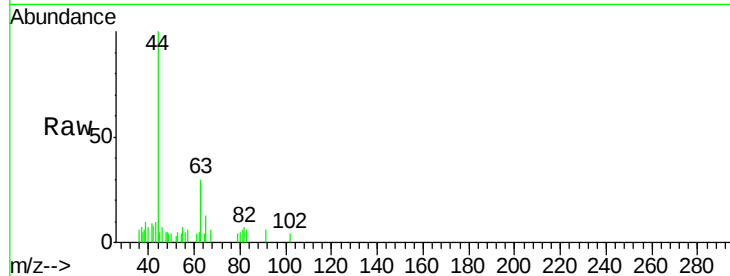
Delta R.T. -0.01 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	63	Resp:	1440
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.8#
100	0.0	2.1	6.5#



#27

cis-1,2-Dichloroethene

Concen: 4.52 ug/l

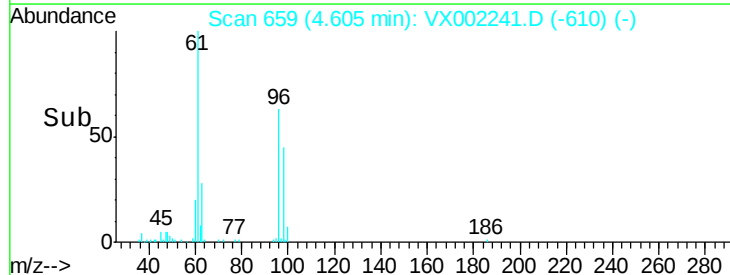
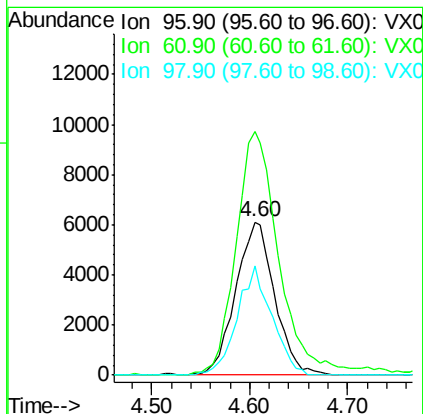
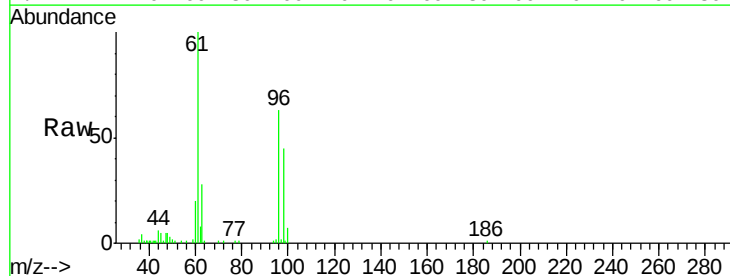
RT: 4.60 min Scan# 659

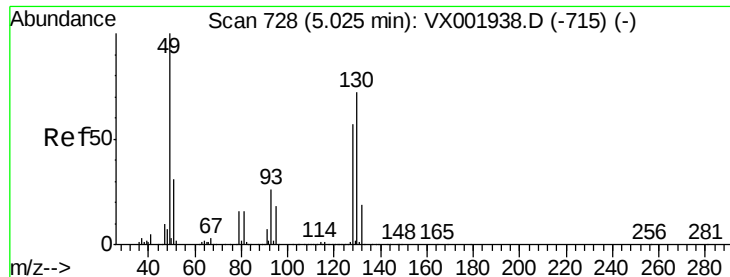
Delta R.T. -0.00 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Tgt Ion:	96	Resp:	16836
Ion	Ratio	Lower	Upper
96	100		
61	178.7	0.0	348.4
98	63.4	0.0	128.6

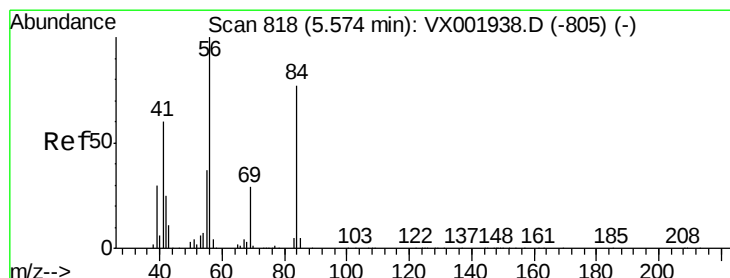
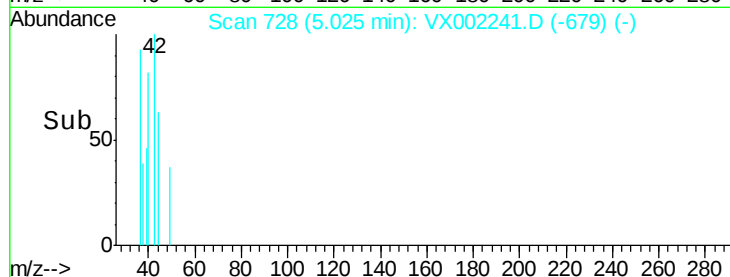
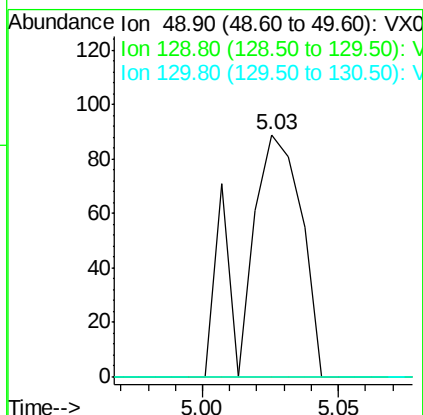
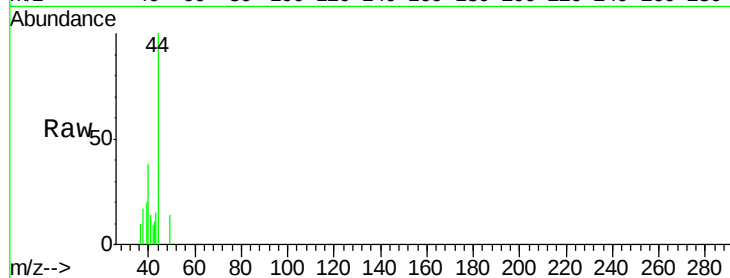




#28
Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 728
Delta R.T. 0.00 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

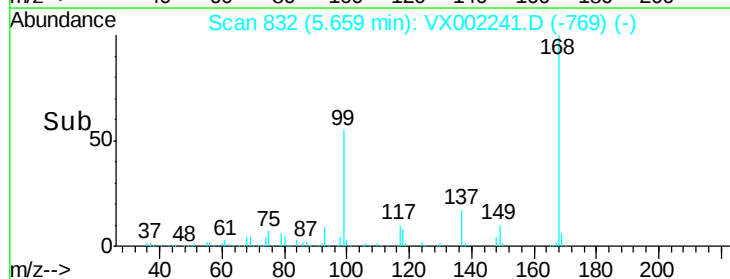
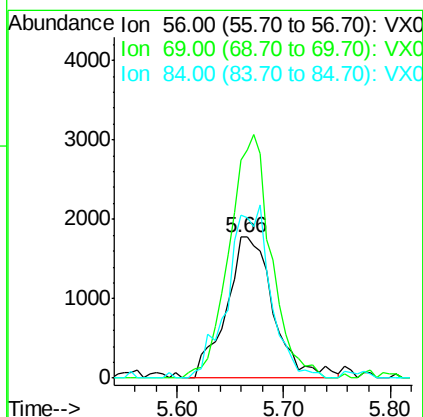
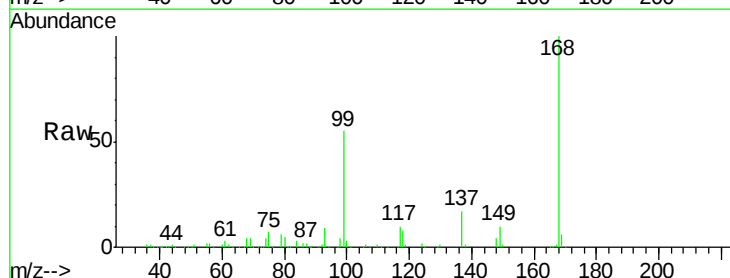
Instrument :
MSVOA_X
ClientSampleId :

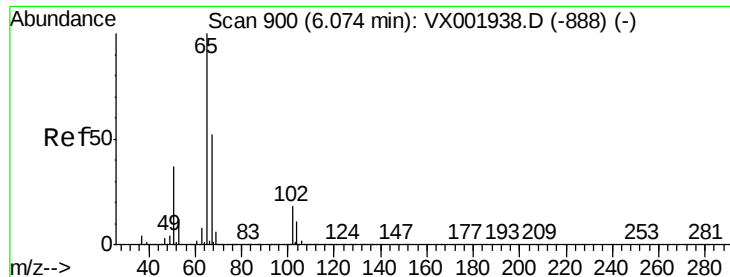
Tot Ion: 49 Resp: 131
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 59.4 89.2#



#31
Cyclohexane
Concen: 0.91 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.09 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

Tgt Ion: 56 Resp: 5484
Ion Ratio Lower Upper
56 100
69 154.8 23.1 34.7#
84 115.4 62.0 93.0#

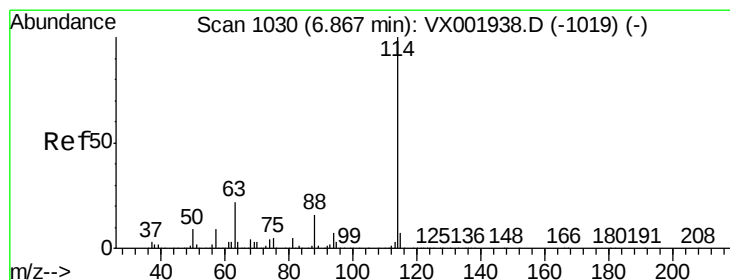
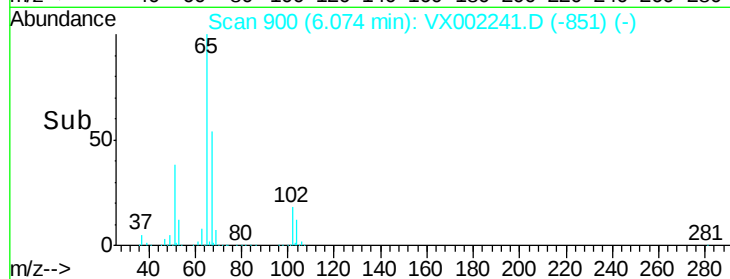
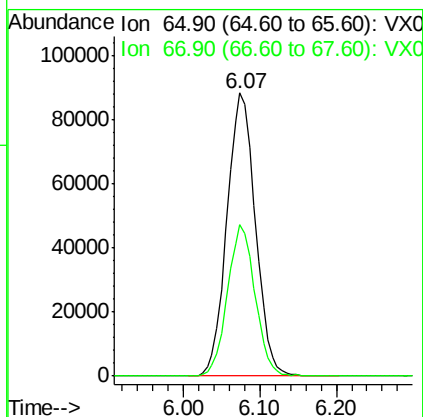
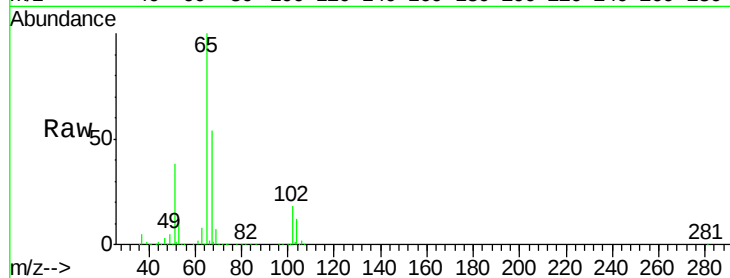




#33
 1,2-Dichloroethane-d4
 Concen: 51.96 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002241.D
 Acq: 02 Jun 2018 16:03

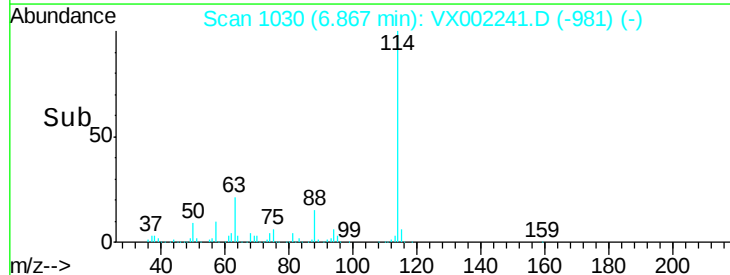
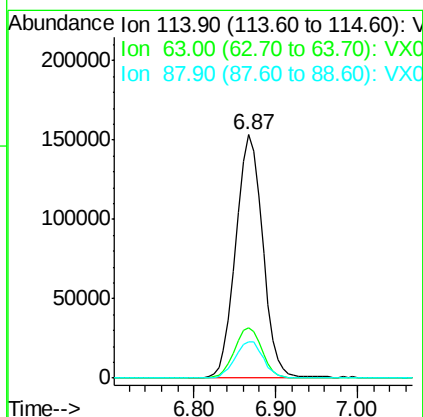
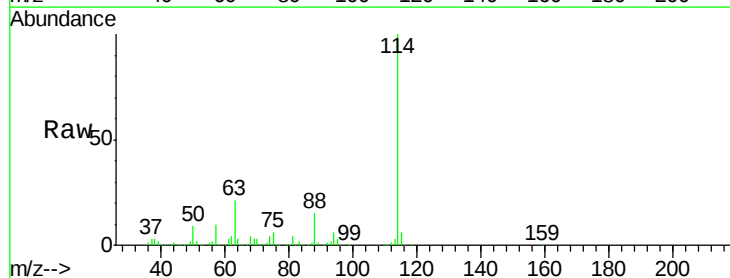
Instrument :
 MSVOA_X
 ClientSampleId :

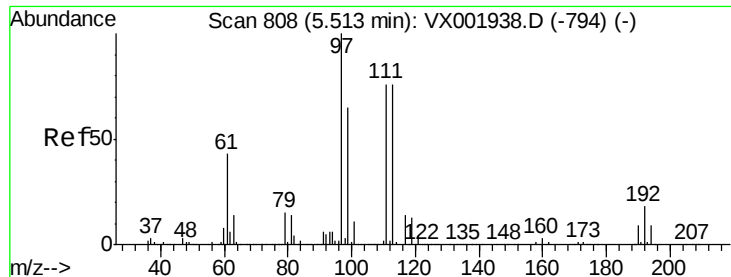
Tot Ion: 65 Resp: 227696
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002241.D
 Acq: 02 Jun 2018 16:03

Tgt Ion: 114 Resp: 352106
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.2
 88 15.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.20 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

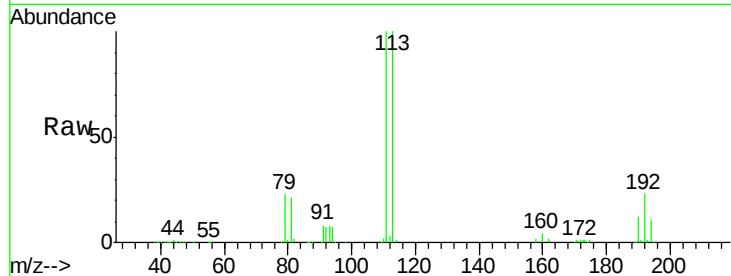
Tot Ion:113 Resp: 166177

Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

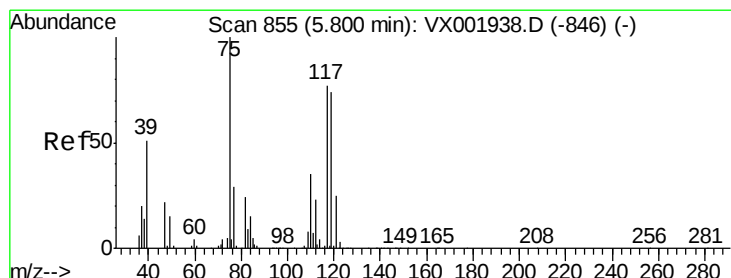
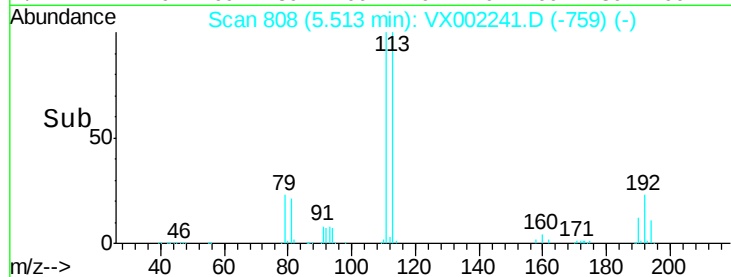
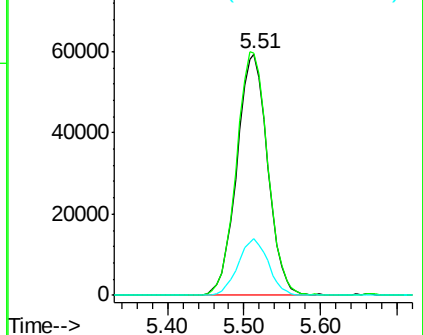
192 23.1 18.9 28.3



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: 3.55 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

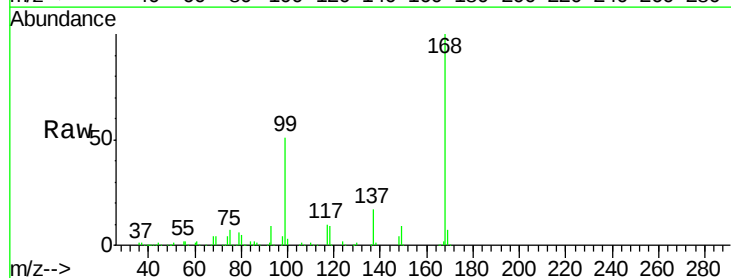
Tgt Ion: 75 Resp: 17380

Ion Ratio Lower Upper

75 100

110 9.7 17.4 52.2#

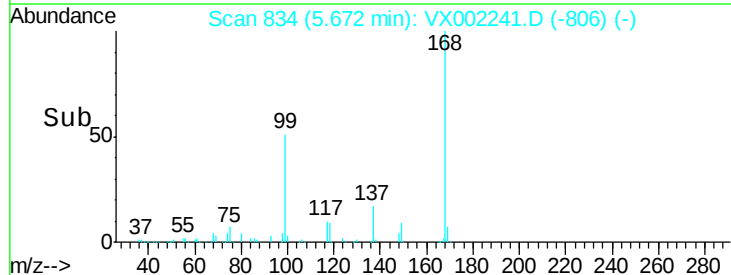
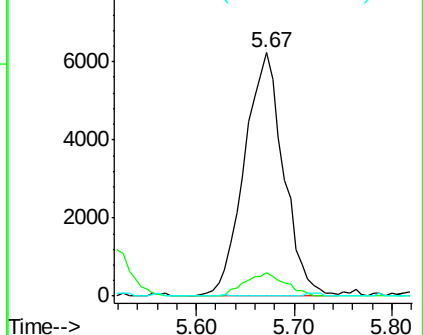
77 0.0 24.4 36.6#

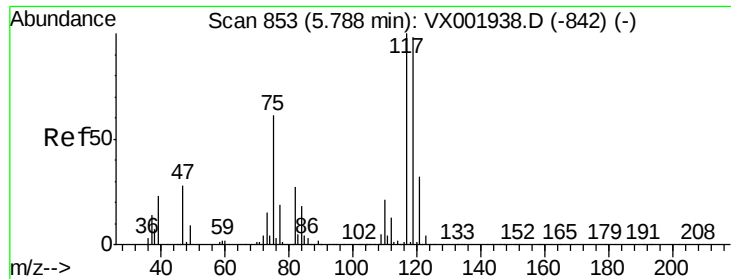


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.09 ua/l

RT: 5.67 min Scan# 834

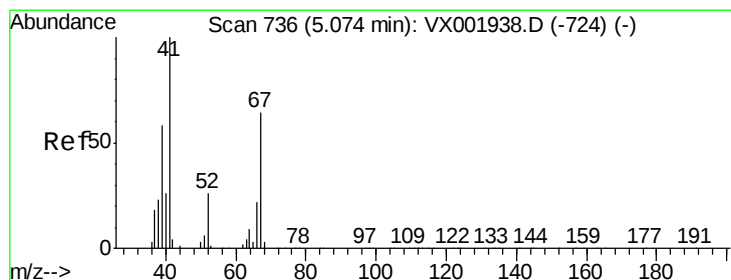
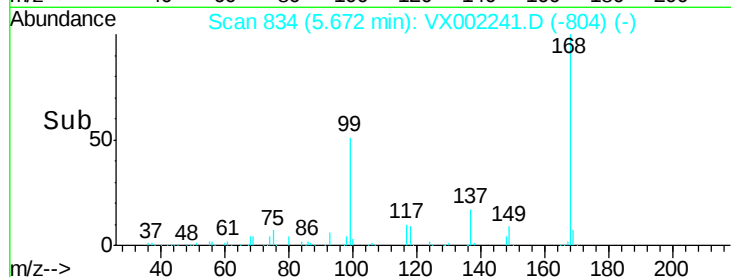
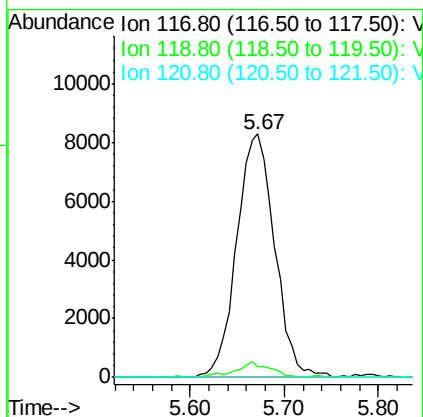
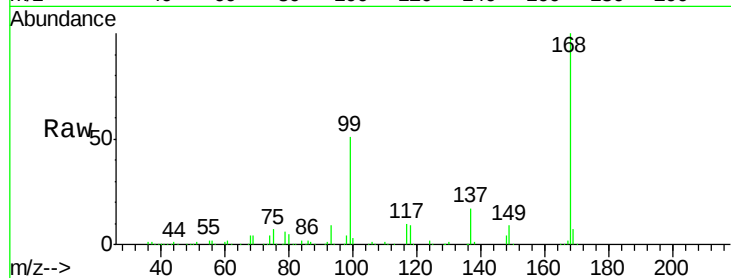
Delta R.T. -0.12 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 23335
Ion Ratio Lower Upper
117 100
119 4.4 78.5 117.7#
121 0.0 25.5 38.3#



#41

Methacrylonitrile

Concen: Below Cal

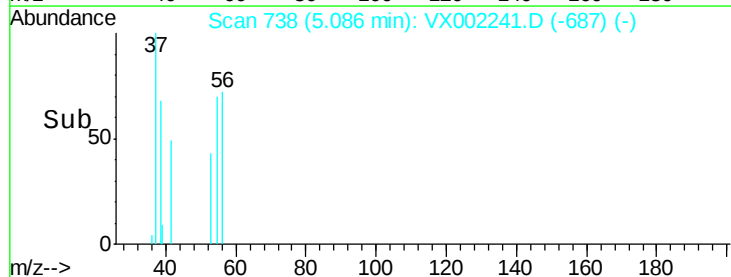
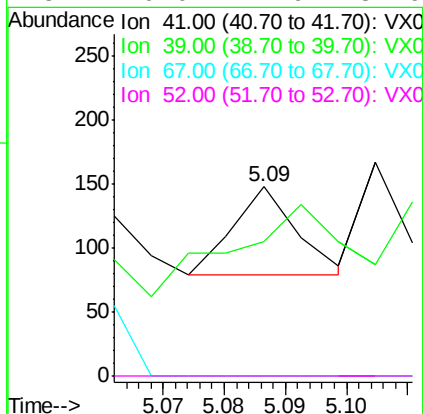
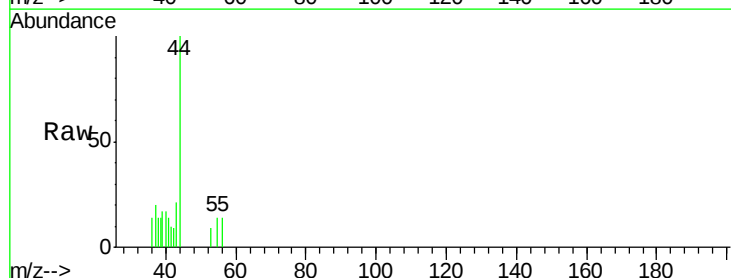
RT: 5.09 min Scan# 738

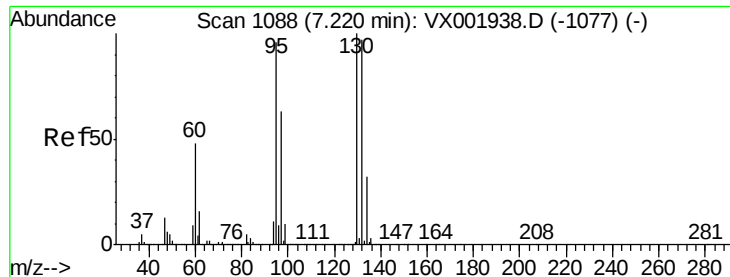
Delta R.T. 0.01 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Tgt Ion: 41 Resp: 49
Ion Ratio Lower Upper
41 100
39 187.8 46.0 69.0#
67 0.0 50.6 75.8#
52 0.0 21.9 32.9#





#44

Trichloroethene

Concen: 11.25 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :

MSVOA_X

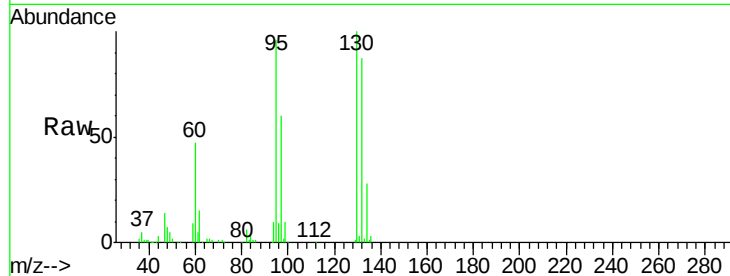
ClientSampled :

Tot Ion:130 Resp: 47024

Ion Ratio Lower Upper

130 100

95 95.7 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

25000

20000

15000

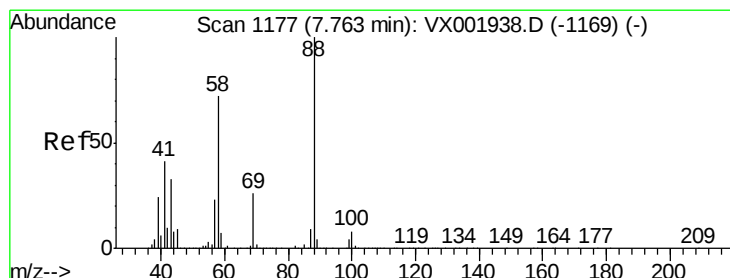
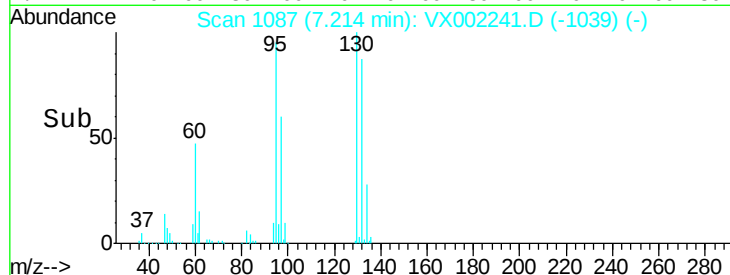
10000

5000

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 0.30 ug/l

RT: 7.79 min Scan# 1181

Delta R.T. 0.02 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

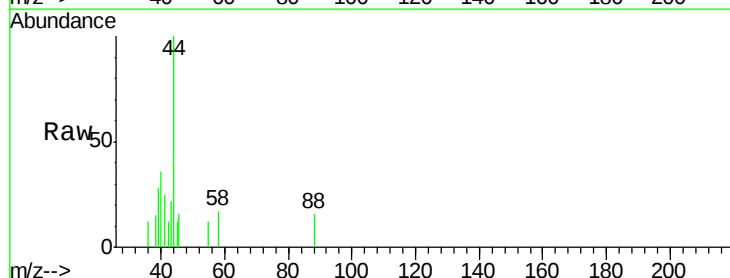
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 875.9 29.8 44.8#

58 413.8 58.7 88.1#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

250

200

150

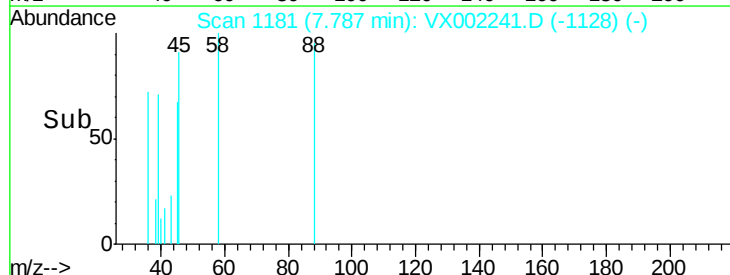
100

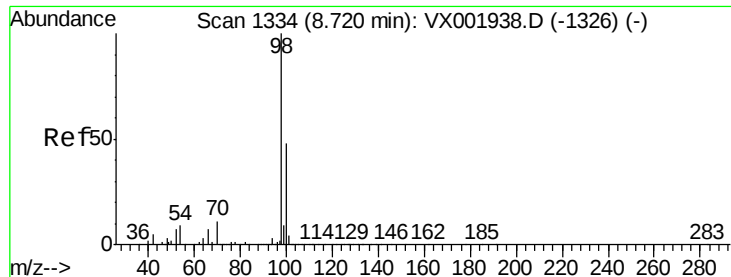
50

0

7.77 7.78 7.79 7.80

Time-->

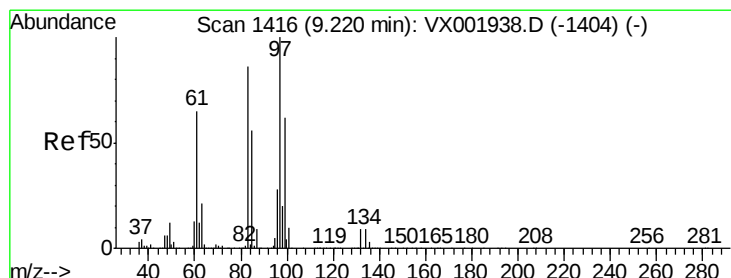
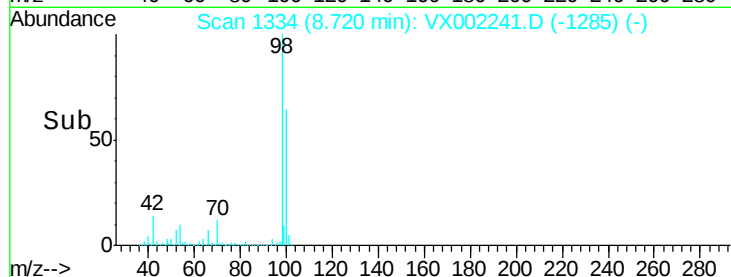
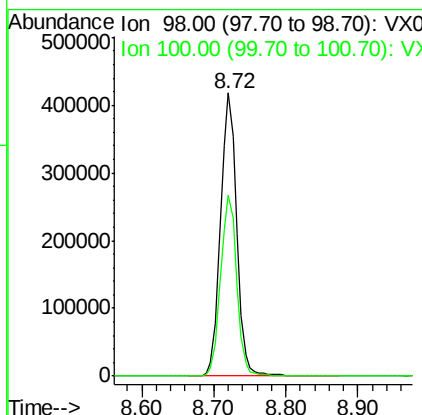
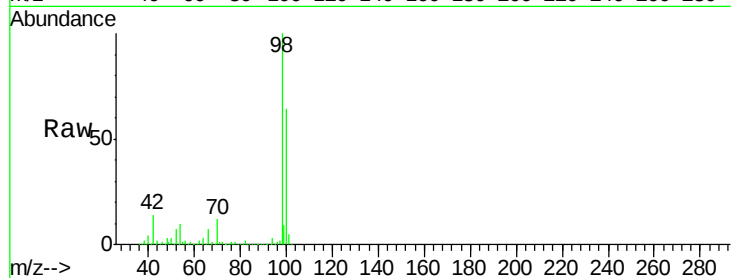




#50
Toluene-d8
Concen: 51.34 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

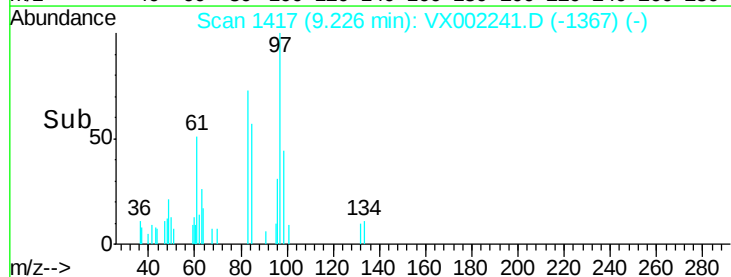
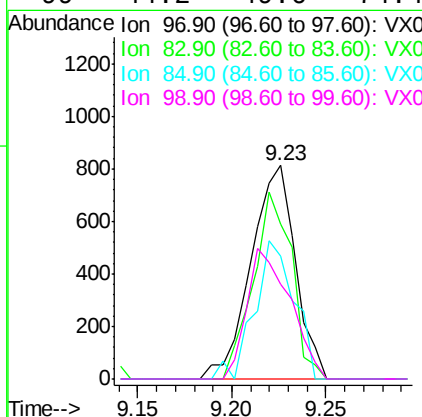
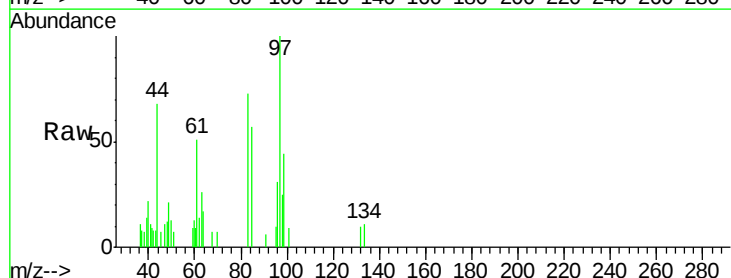
Instrument :
MSVOA_X
ClientSampleId :

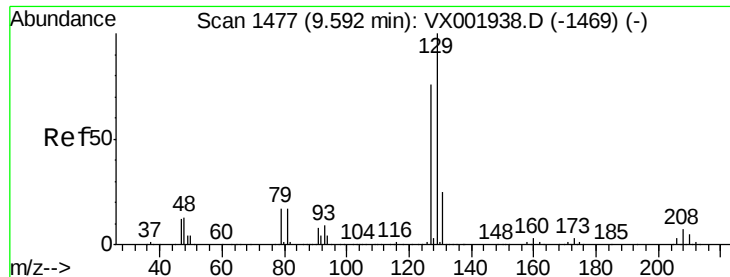
Tot Ion: 98 Resp: 654418
Ion Ratio Lower Upper
98 100
100 63.8 51.5 77.3



#55
1,1,2-Trichloroethane
Concen: 0.35 ug/l
RT: 9.23 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

Tgt Ion: 97 Resp: 1330
Ion Ratio Lower Upper
97 100
83 72.8 69.1 103.7
85 57.3 45.2 67.8
99 44.2 49.6 74.4#





#60

Dibromochloromethane

Concen: 1.67 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

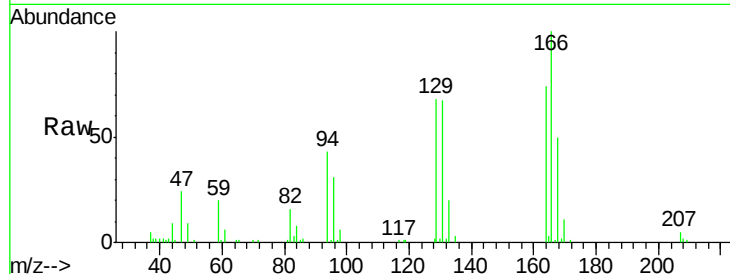
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 7564

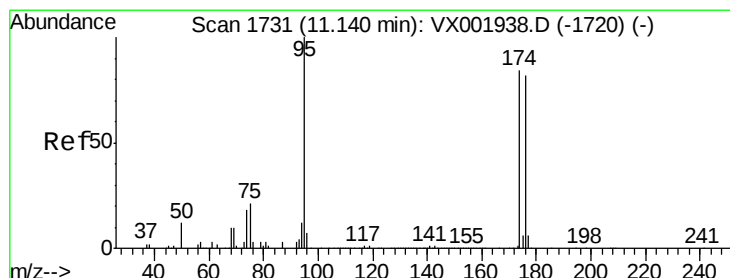
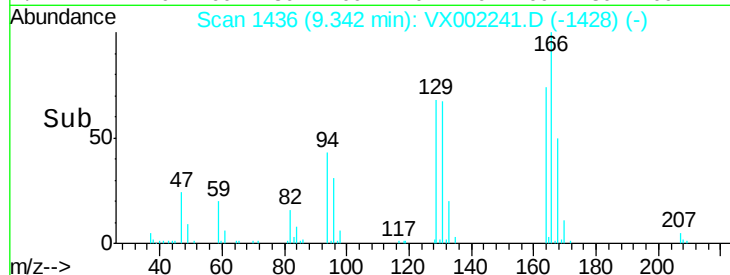
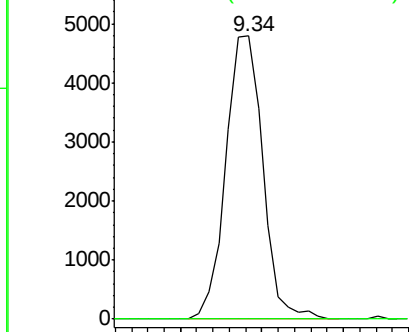
Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.9#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

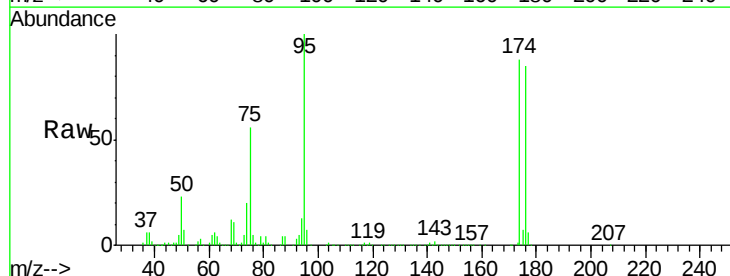
Tgt Ion: 95 Resp: 225451

Ion Ratio Lower Upper

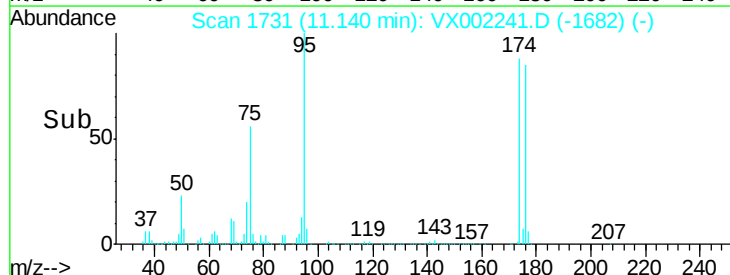
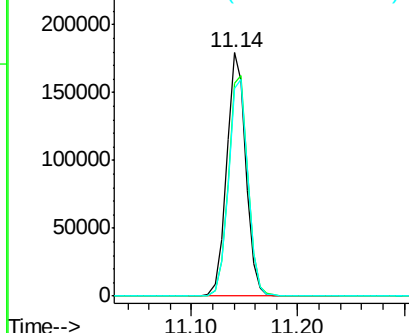
95 100

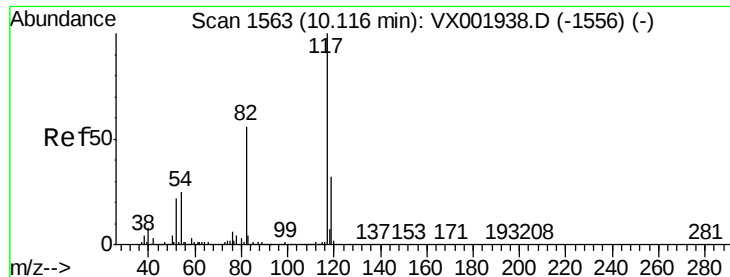
174 92.6 0.0 178.8

176 90.9 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: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

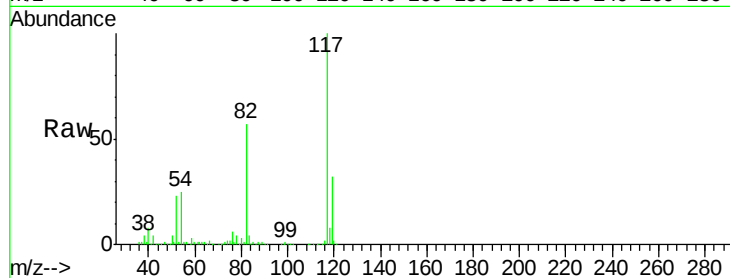
Tot Ion:117 Resp: 319888

Ion Ratio Lower Upper

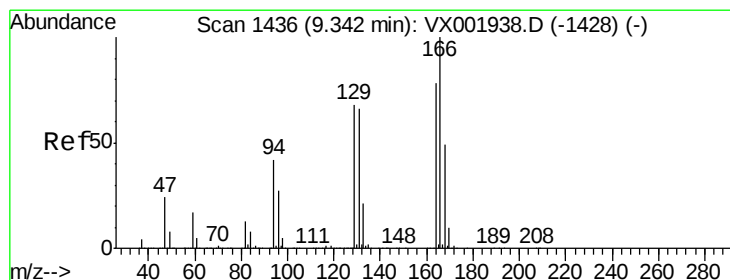
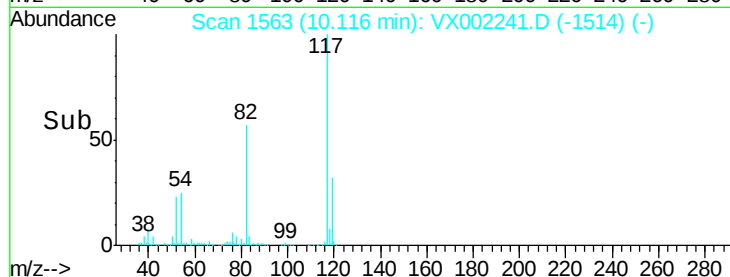
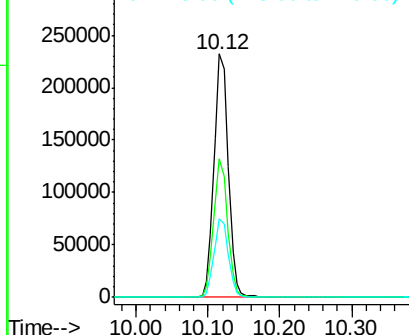
117 100

82 57.0 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



#64

Tetrachloroethene

Concen: 1.76 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.01 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Tgt Ion:164 Resp: 8091

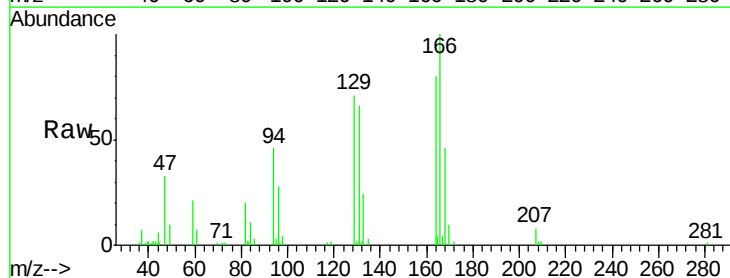
Ion Ratio Lower Upper

164 100

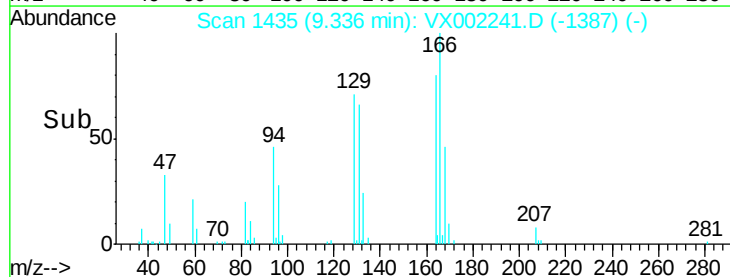
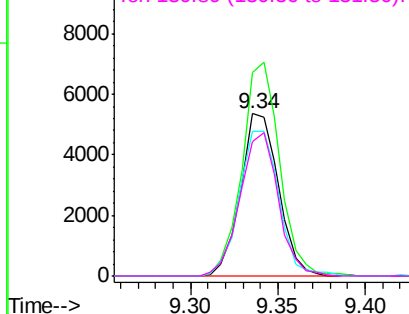
166 125.2 102.7 154.1

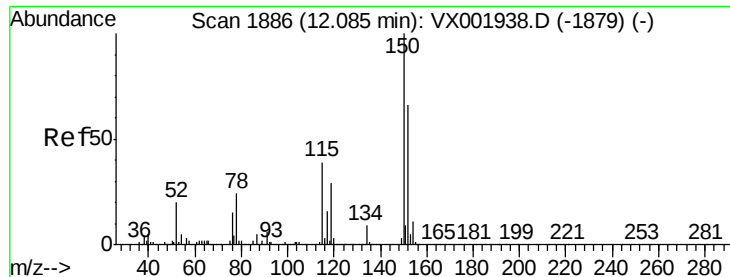
129 88.9 70.3 105.5

131 83.0 68.2 102.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



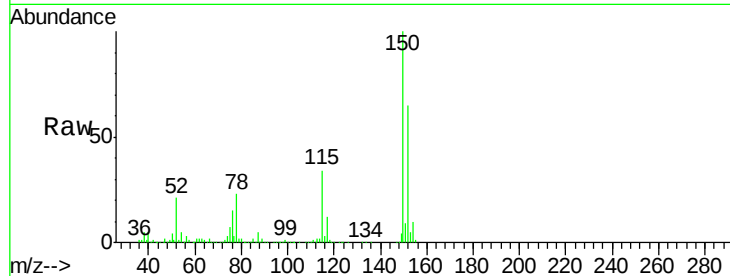


#72

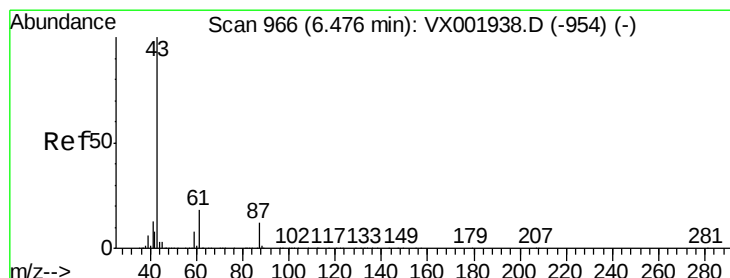
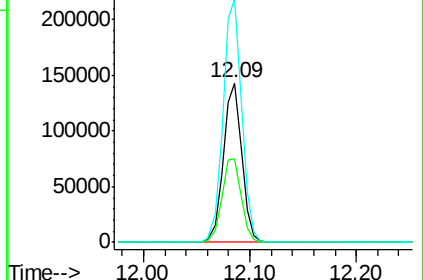
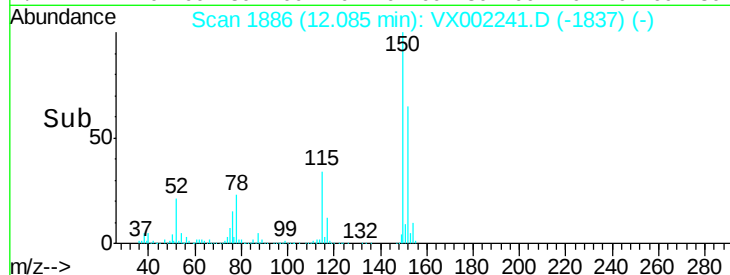
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.4	42.3	126.8
150	155.3	0.0	351.0



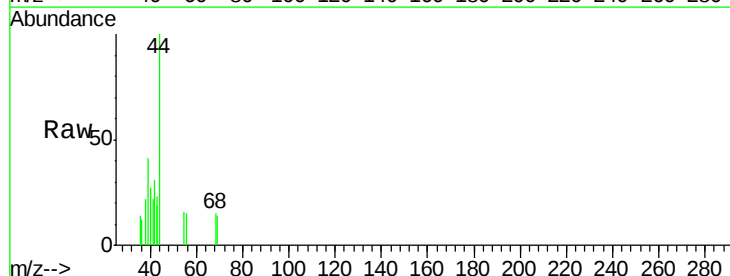
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



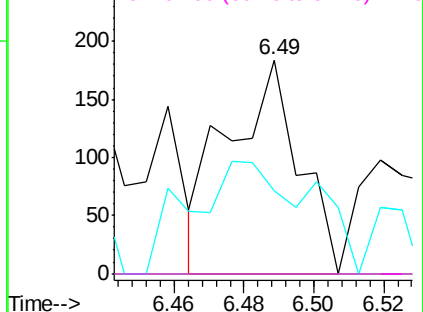
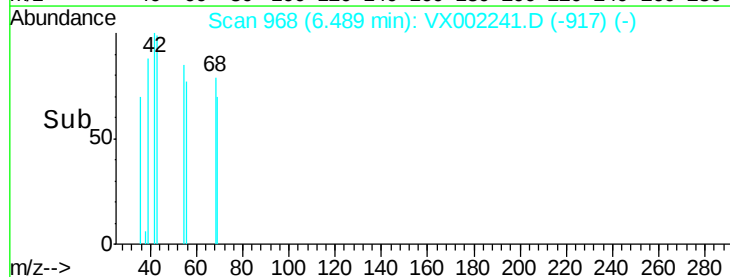
#74

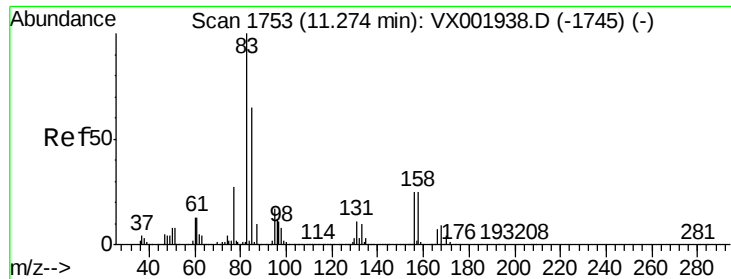
N-amil acetate
Concen: Below Cal
RT: 6.49 min Scan# 968
Delta R.T. 0.01 min
Lab File: VX002241.D
Acq: 02 Jun 2018 16:03

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	89.3	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: 11.35 min Scan# 1766

Delta R.T. 0.08 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :

MSVOA_X

ClientSampled :

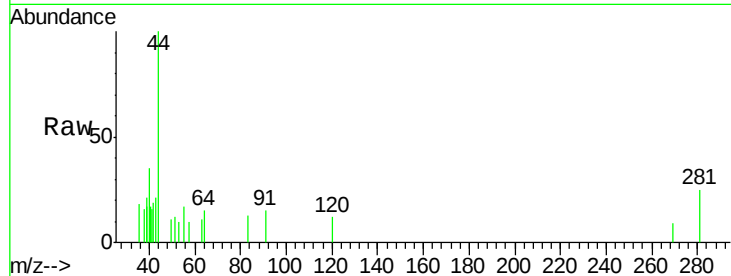
Tot Ion: 83 Resp: 26

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

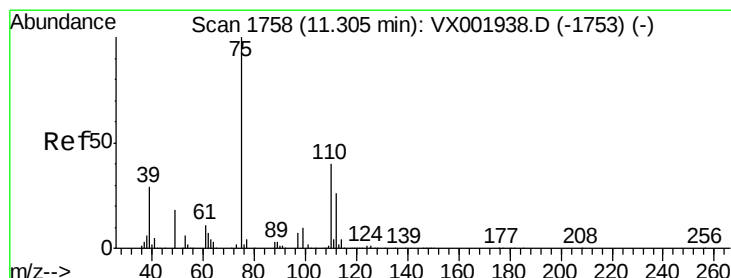
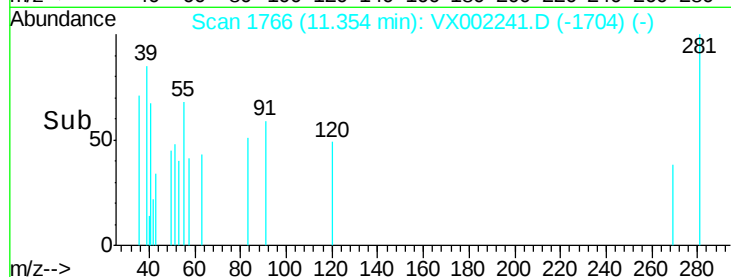
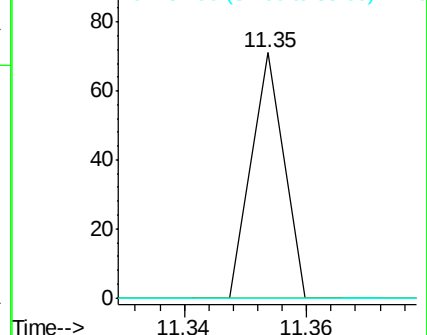
85 0.0 32.6 97.7#



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: 29.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002241.D

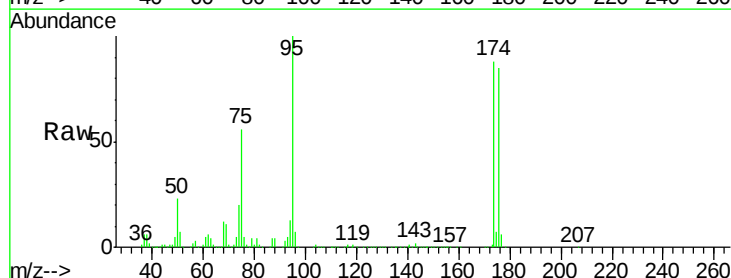
Acq: 02 Jun 2018 16:03

Tgt Ion: 75 Resp: 123350

Ion Ratio Lower Upper

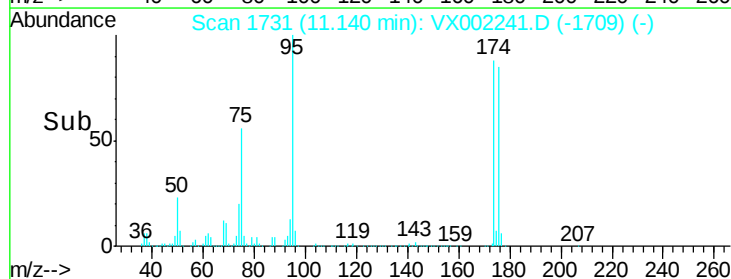
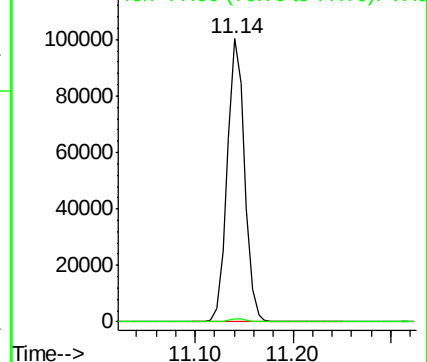
75 100

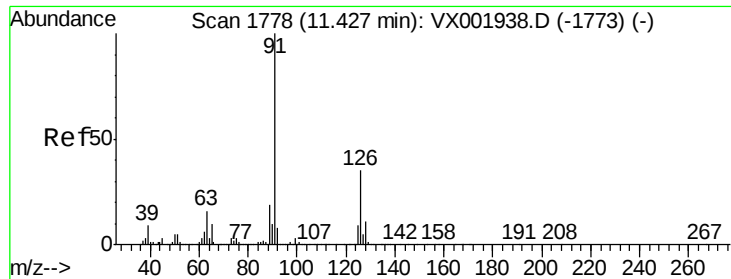
77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Instrument :

MSVOA_X

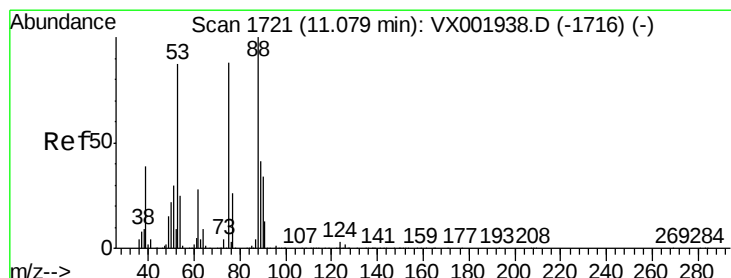
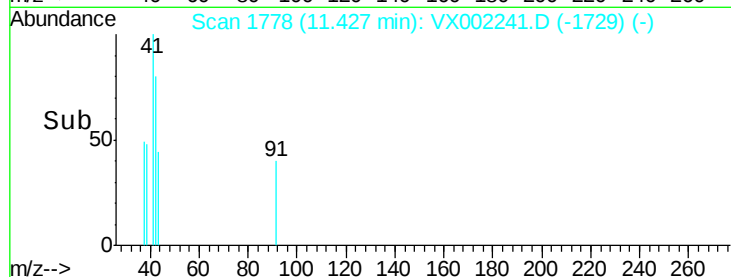
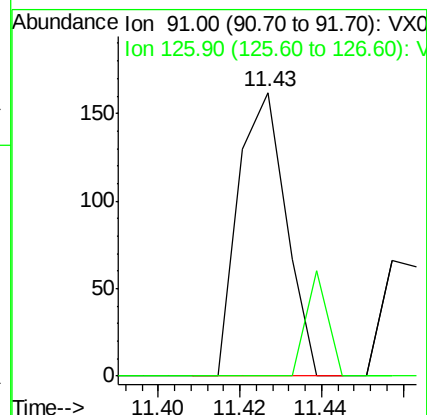
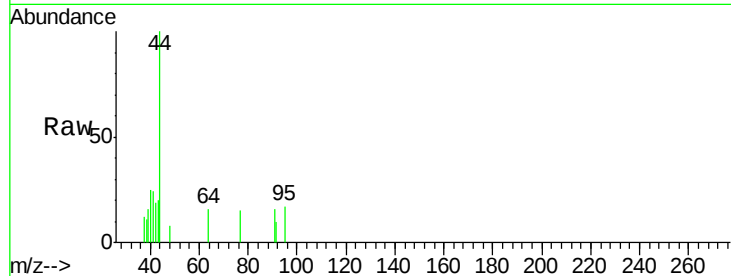
ClientSampled :

Tot Ion: 91 Resp: 131

Ion Ratio Lower Upper

91 100

126 16.8 17.4 52.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002241.D

Acq: 02 Jun 2018 16:03

Tgt Ion: 75 Resp: 123350

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 39.4 59.2#

