

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\
 Data File : VX008220.D
 Acq On : 20 Mar 2019 04:27
 Operator : JC/SP
 Sample : K1900-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 20 08:39:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:51:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	331010	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	534867	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	450136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	183185	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	229589	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	
35) Dibromofluoromethane	5.50	113	168823	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
50) Toluene-d8	8.71	98	662389	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
62) 4-Bromofluorobenzene	11.13	95	211699	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	

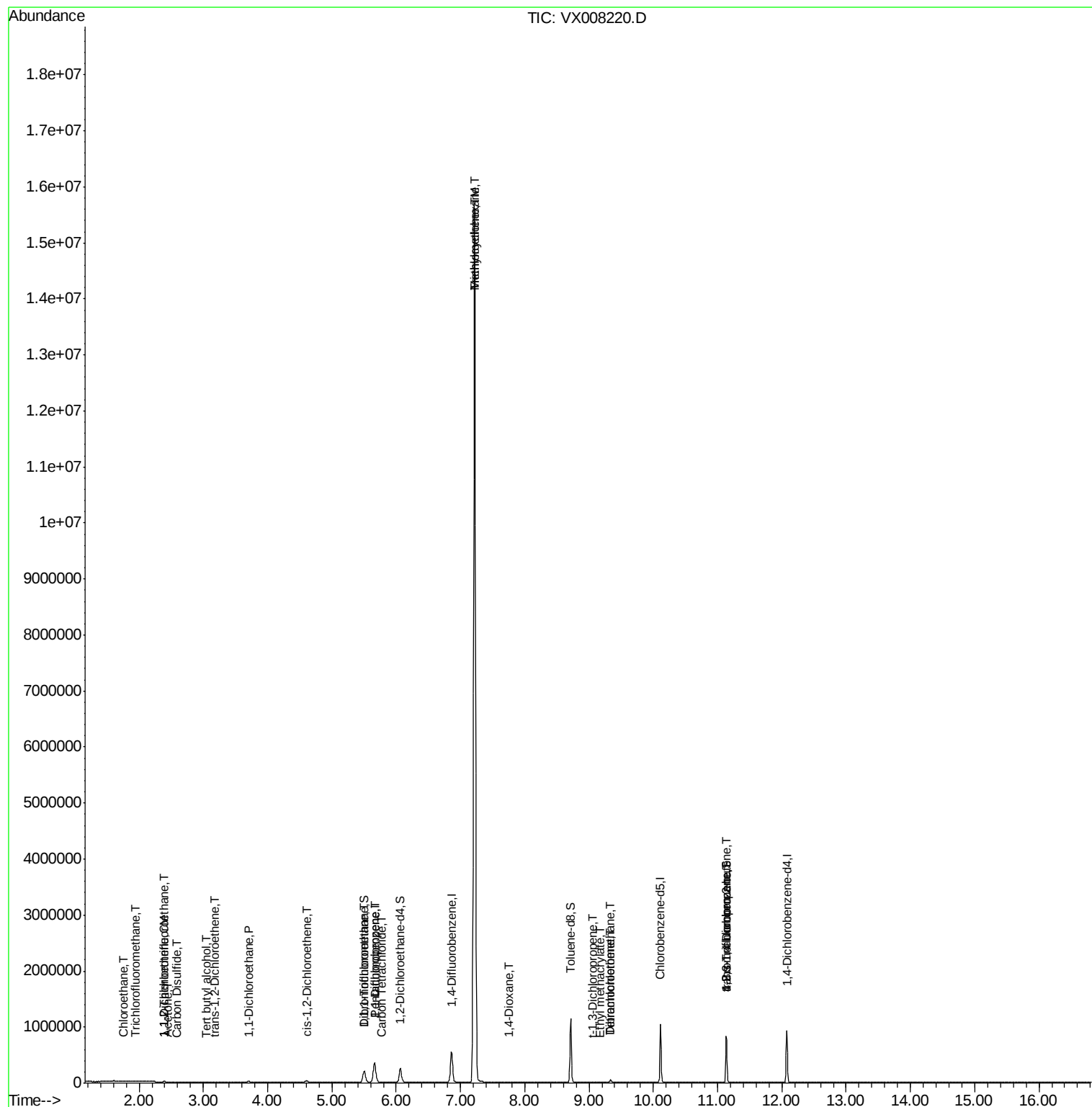
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.76	64	1775	0.564	ug/l #	54
7) Trichlorofluoromethane	1.94	101	1569	0.245	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	3776	0.888	ug/l #	85
11) Tert butyl alcohol	3.06	59	426	0.399	ug/l #	1
12) 1,1-Dichloroethene	2.38	96	2714	0.676	ug/l	95
13) Acrolein	2.29	56	543	Below Cal	#	13
16) Acetone	2.44	43	1526	0.540	ug/l #	77
17) Carbon Disulfide	2.58	76	794	0.735	ug/l #	75
21) trans-1,2-Dichloroethene	3.18	96	1180	0.272	ug/l #	82
24) 1,1-Dichloroethane	3.70	63	13687	1.554	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	14856	3.003	ug/l	99
32) 1,1,1-Trichloroethane	5.51	97	1486	0.217	ug/l #	47
36) 1,1-Dichloropropene	5.66	75	27253	4.376	ug/l #	49
38) Carbon Tetrachloride	5.78	117	1330	0.240	ug/l #	72
39) Methylcyclohexane	7.22	83	72910	9.729	ug/l #	1
44) Trichloroethene	7.22	130	5648459	1253.356	ug/l	89
49) 1,4-Dioxane	7.75	88	1876	16.945	ug/l #	90
53) t-1,3-Dichloropropene	9.05	75	198	1.448	ug/l #	43
56) Ethyl methacrylate	9.17	69	109	0.540	ug/l #	35
60) Dibromochloromethane	9.34	129	8045	1.895	ug/l #	12
64) Tetrachloroethene	9.34	164	8078	1.989	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	109401	21.233	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	109401	54.012	ug/l #	12

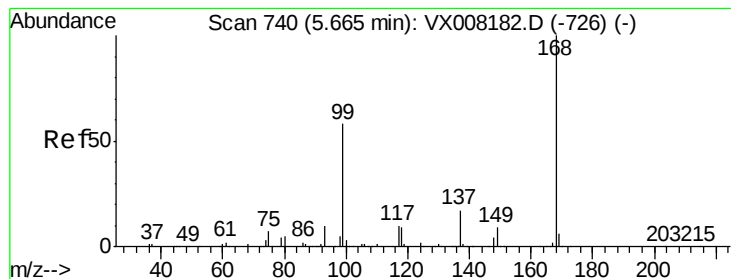
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031919\
Data File : VX008220.D
Acq On : 20 Mar 2019 04:27
Operator : JC/SP
Sample : K1900-13
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Mar 20 08:39:27 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 20 06:51:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

Instrument :

MSVOA_X

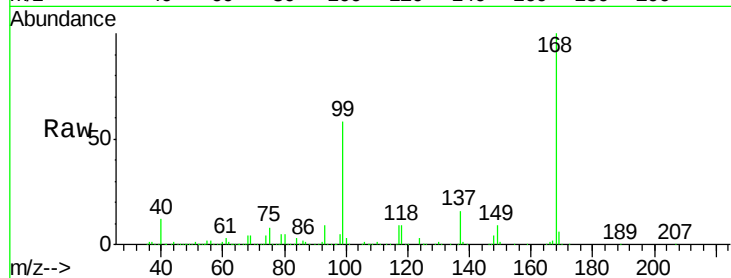
ClientSampleId :

Tot Ion:168 Resp: 331010

Ion Ratio Lower Upper

168 100

99 57.5 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

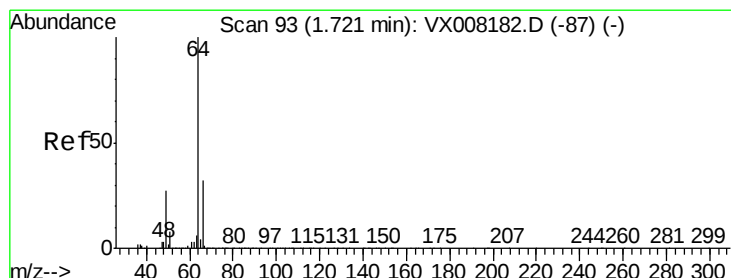
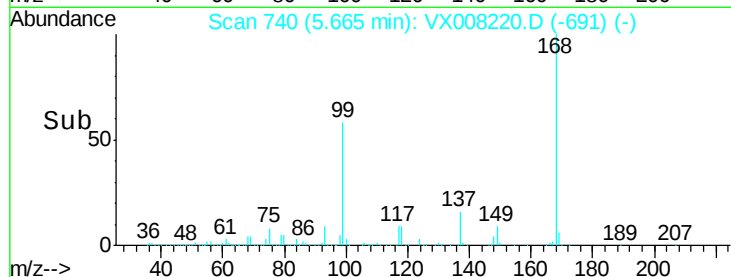
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.564 ug/l

RT: 1.76 min Scan# 99

Delta R.T. 0.04 min

Lab File: VX008220.D

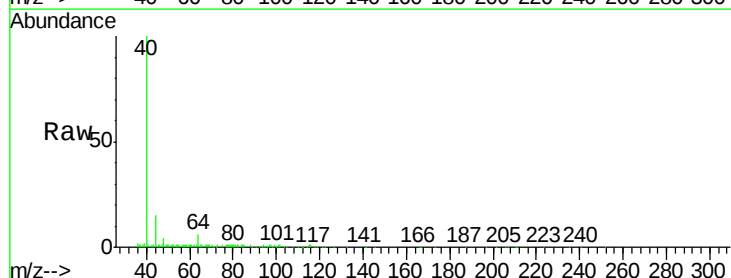
Acq: 20 Mar 2019 04:27

Tgt Ion: 64 Resp: 1775

Ion Ratio Lower Upper

64 100

66 5.9 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1000

800

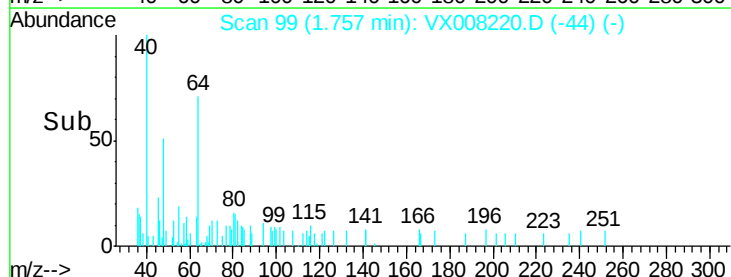
600

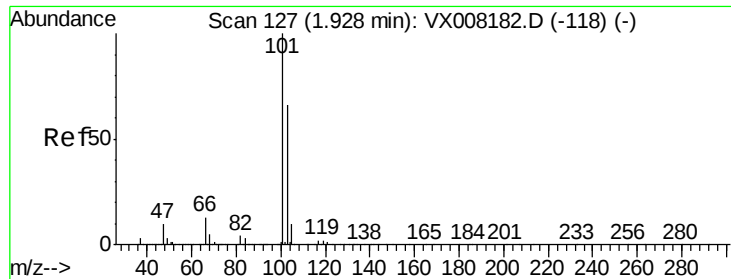
400

200

0

Time--> 1.65 1.70 1.75



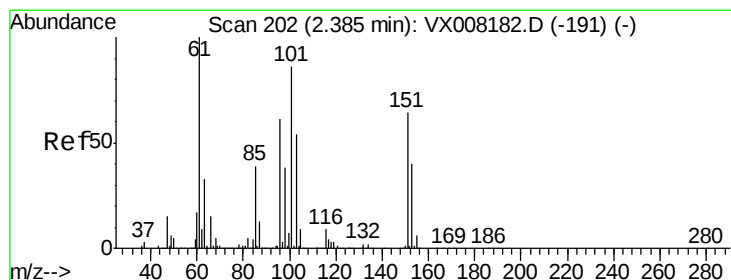
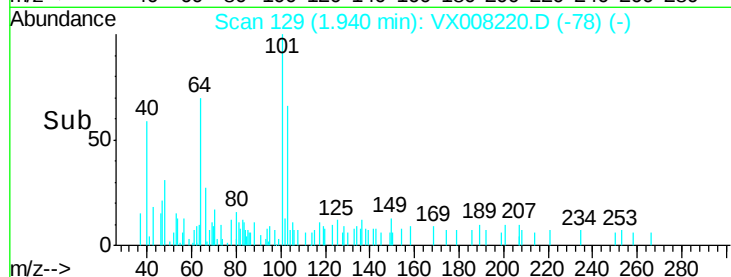
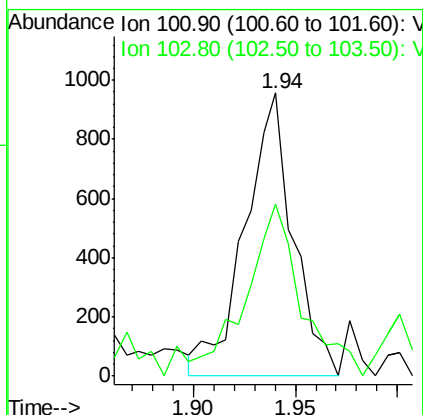
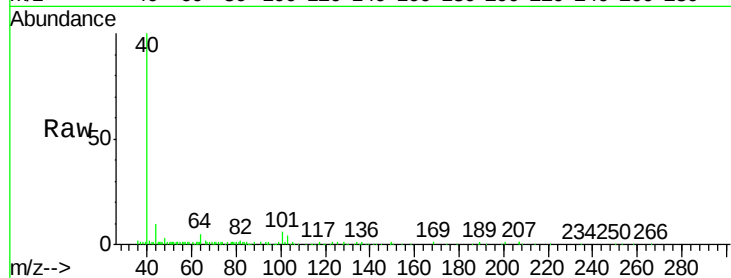


#7

Trichlorofluoromethane
Concen: 0.245 ug/l
RT: 1.94 min Scan# 129
Delta R.T. 0.01 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

Instrument :
MSVOA_X
ClientSampled :

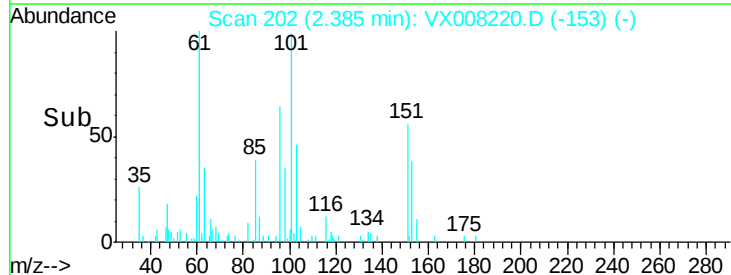
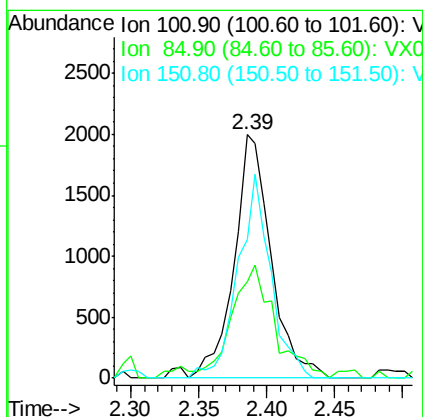
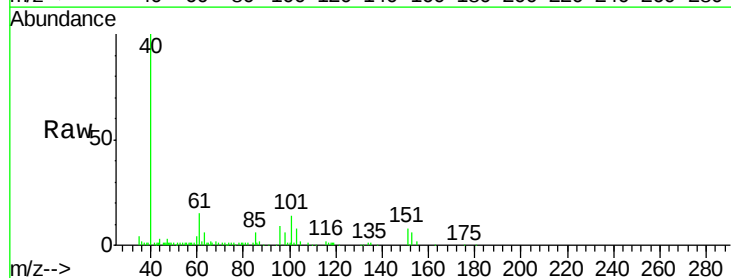
Tot Ion:101 Resp: 1569
Ion Ratio Lower Upper
101 100
103 55.5 50.4 75.6

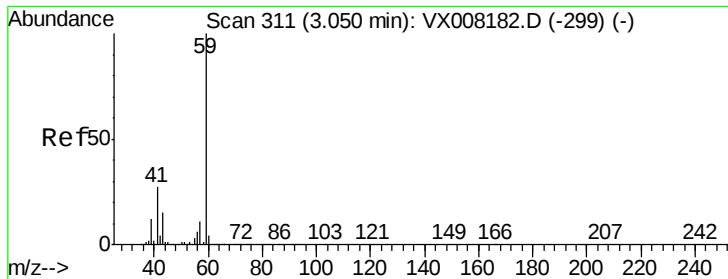


#9

1,1,2-Trichlorotrifluoroethane
Concen: 0.888 ug/l
RT: 2.39 min Scan# 202
Delta R.T. 0.00 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

Tgt Ion:101 Resp: 3776
Ion Ratio Lower Upper
101 100
85 53.9 33.8 50.6#
151 74.4 69.1 103.7

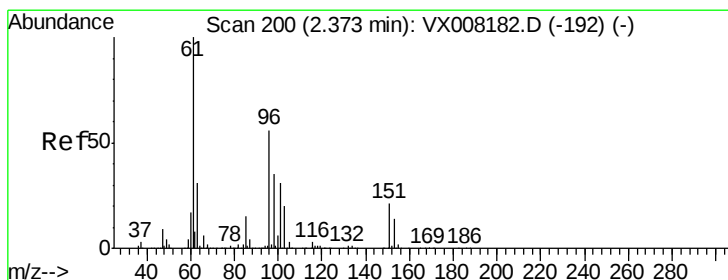
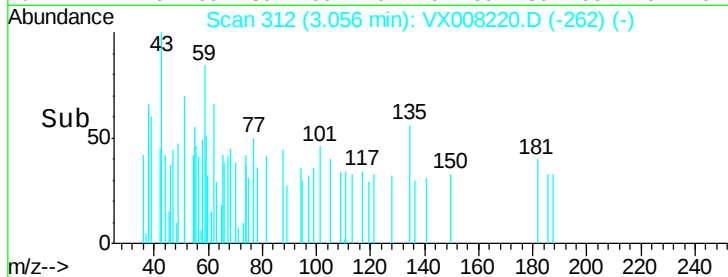
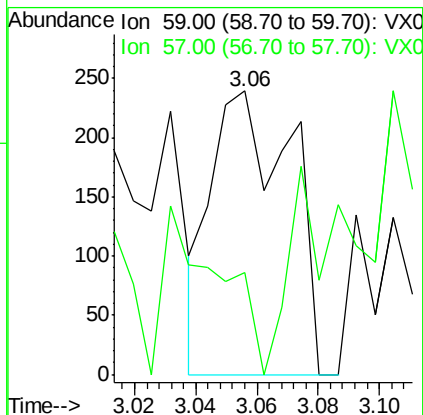
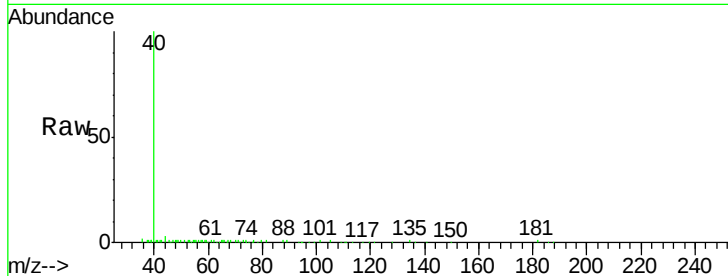




#11
Tert butyl alcohol
Concen: 0.399 ug/l
RT: 3.06 min Scan# 312
Delta R.T. 0.01 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

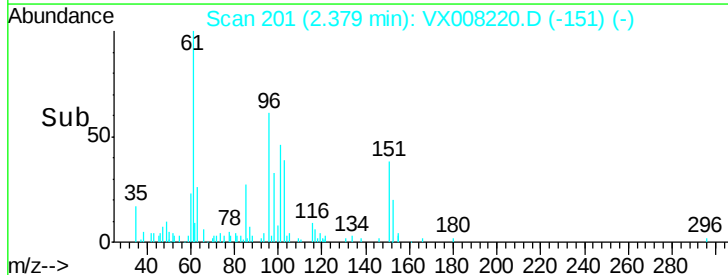
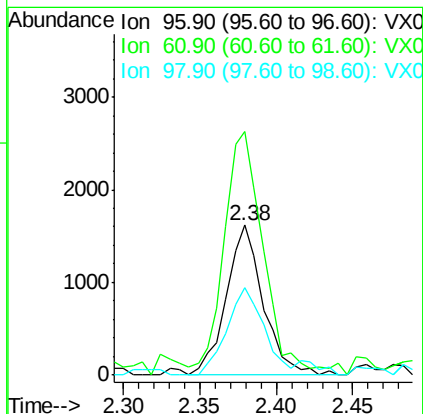
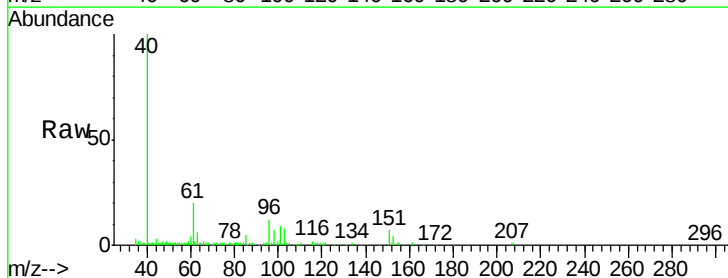
Instrument :
MSVOA_X
ClientSampled :

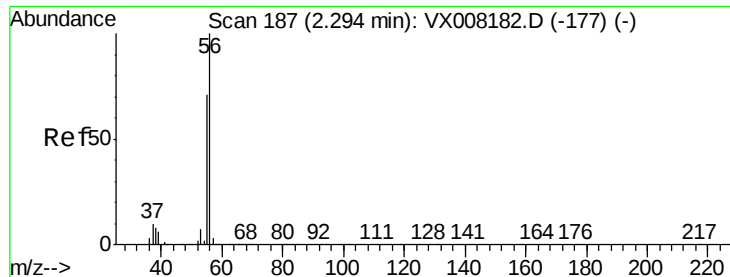
Tot Ion: 59 Resp: 426
Ion Ratio Lower Upper
59 100
57 48.4 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 0.676 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

Tgt Ion: 96 Resp: 2714
Ion Ratio Lower Upper
96 100
61 157.2 129.8 194.6
98 58.6 51.0 76.6





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

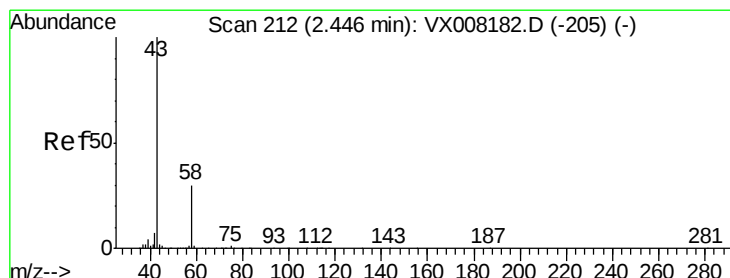
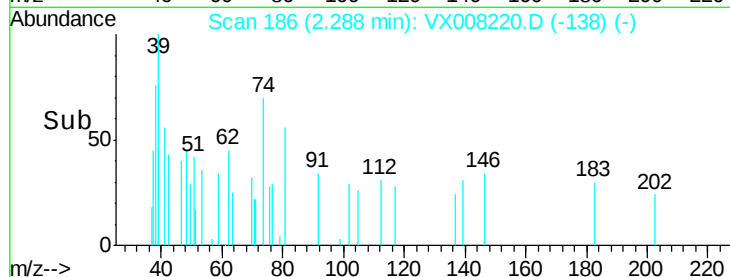
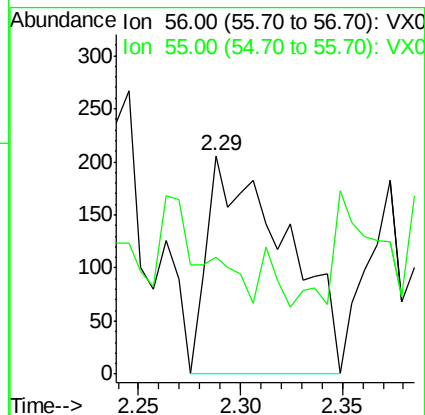
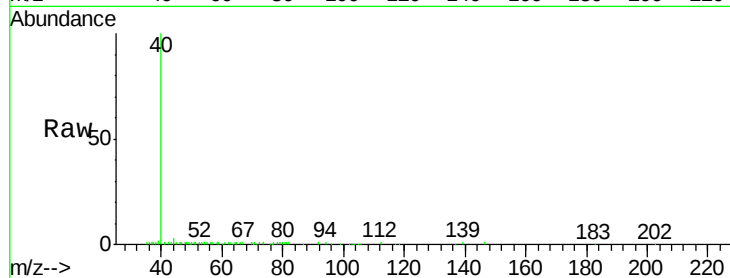
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 543

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



#16

Acetone

Concen: 0.540 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008220.D

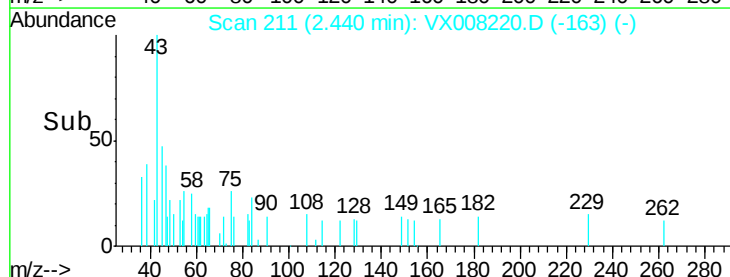
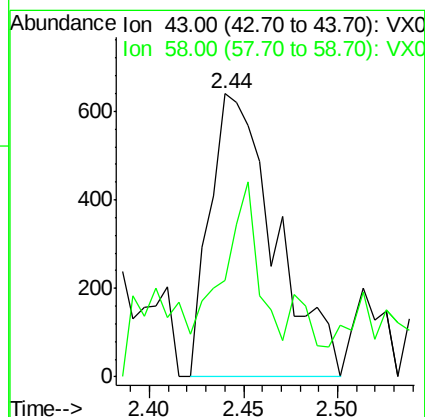
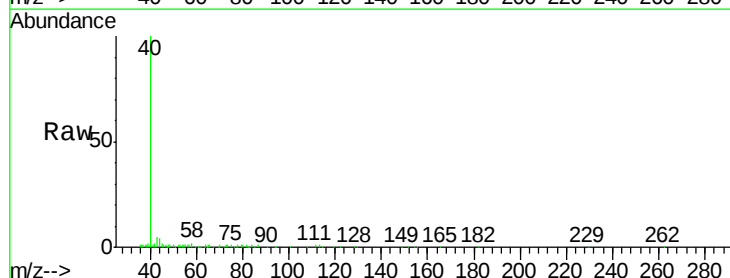
Acq: 20 Mar 2019 04:27

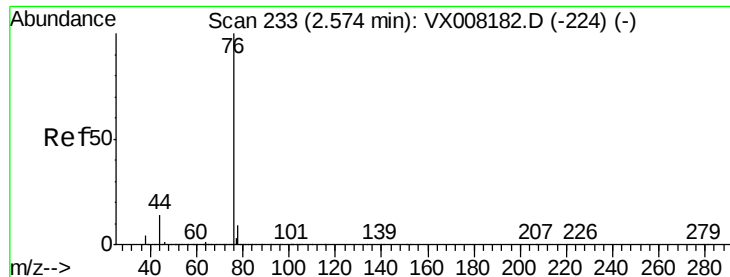
Tgt Ion: 43 Resp: 1526

Ion Ratio Lower Upper

43 100

58 19.2 25.5 38.3#





#17

Carbon Disulfide

Concen: 0.735 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

Instrument :

MSVOA_X

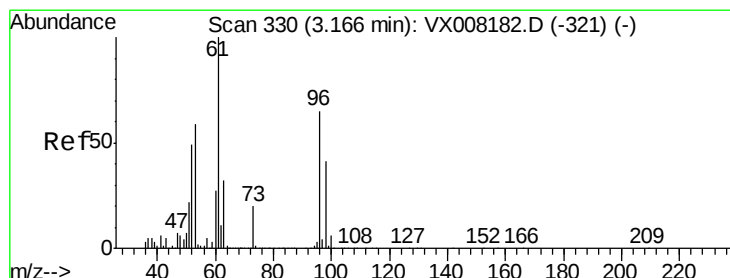
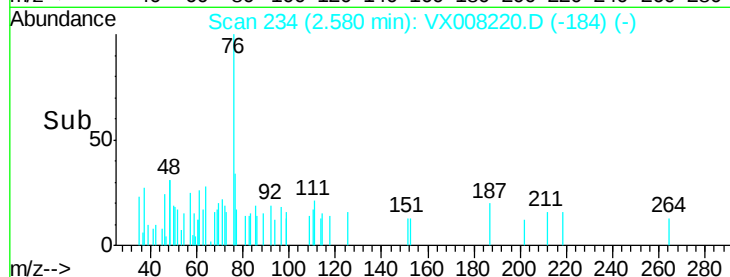
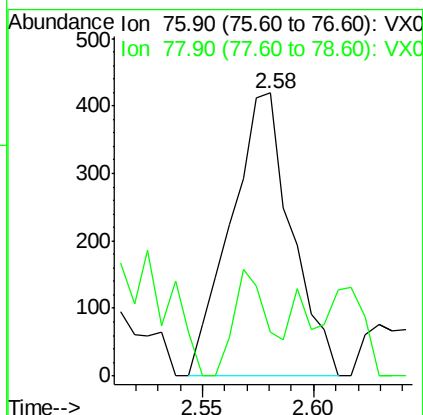
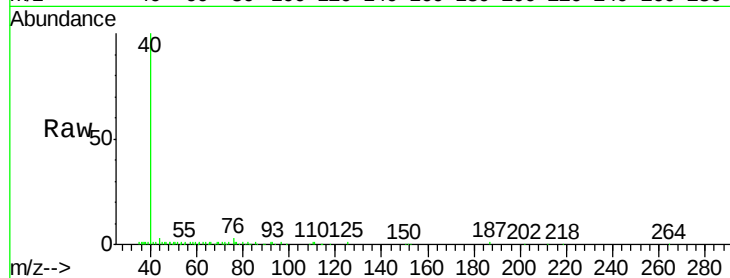
ClientSampled :

Tot Ion: 76 Resp: 794

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#21

trans-1,2-Dichloroethene

Concen: 0.272 ug/l

RT: 3.18 min Scan# 332

Delta R.T. 0.01 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

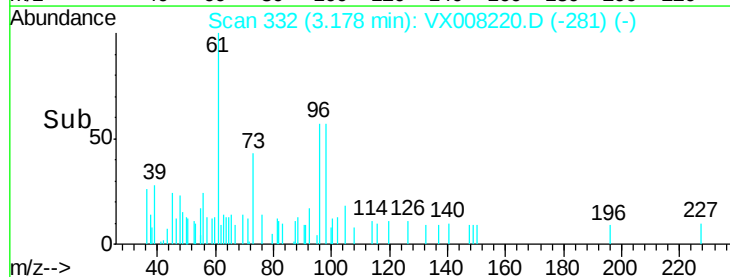
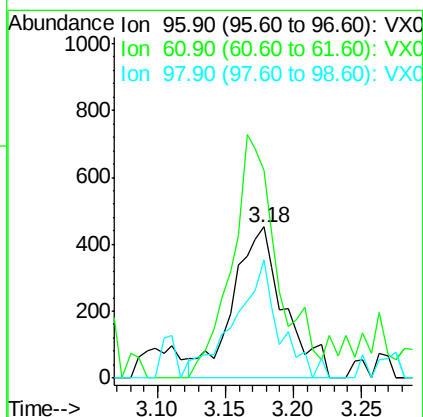
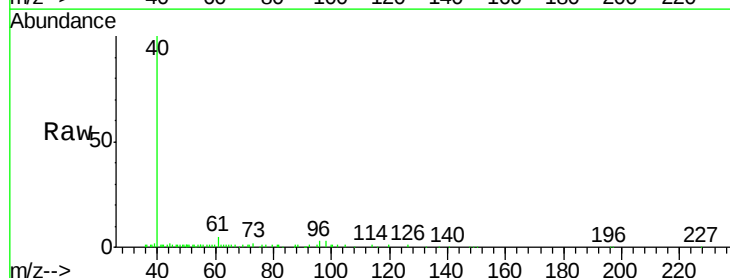
Tgt Ion: 96 Resp: 1180

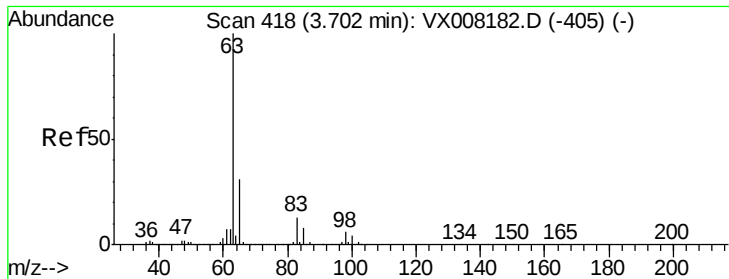
Ion Ratio Lower Upper

96 100

61 157.5 114.4 171.6

98 89.4 51.1 76.7#





#24

1,1-Dichloroethane

Concen: 1.554 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.01 min

Lab File: VX008220.D

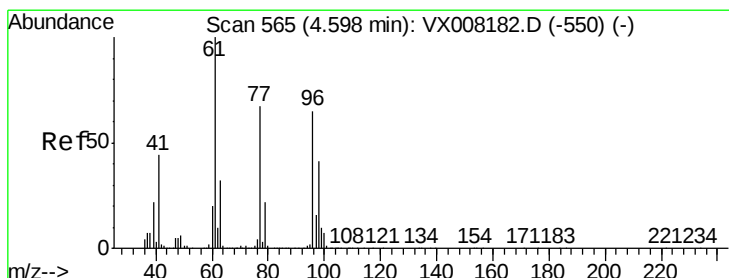
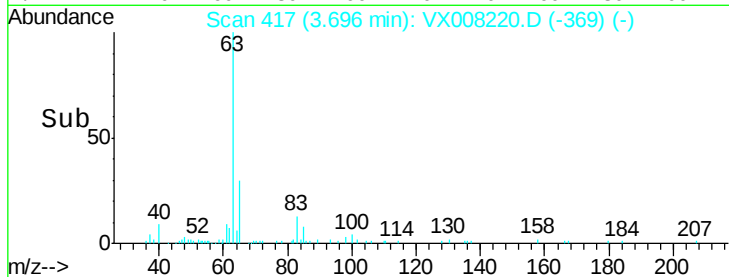
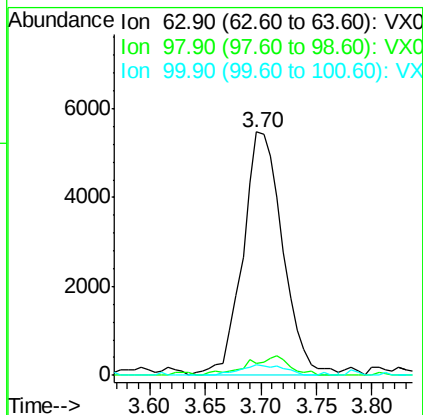
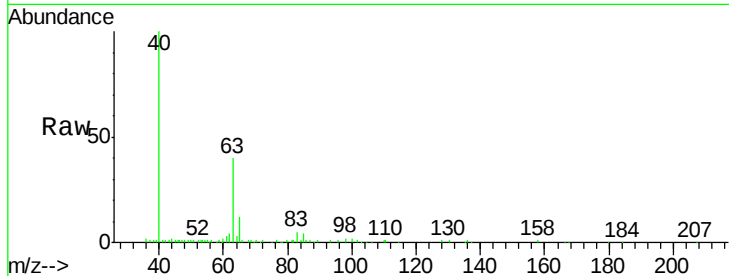
Acq: 20 Mar 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	63	Resp:	13687
Ion	Ratio	Lower	Upper
63	100		
98	5.1	3.3	9.8
100	4.2	2.3	6.8



#27

cis-1,2-Dichloroethene

Concen: 3.003 ug/l

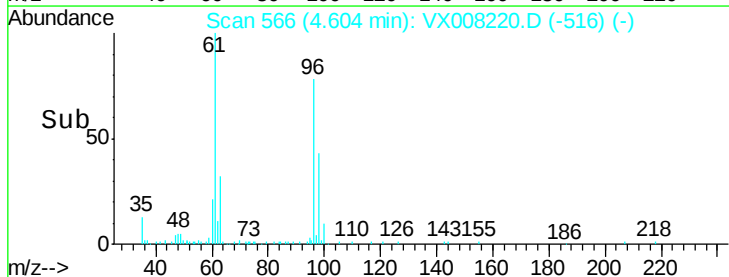
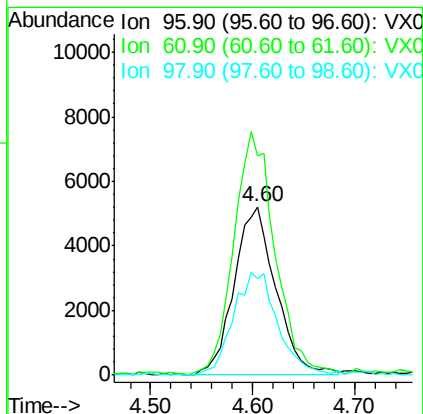
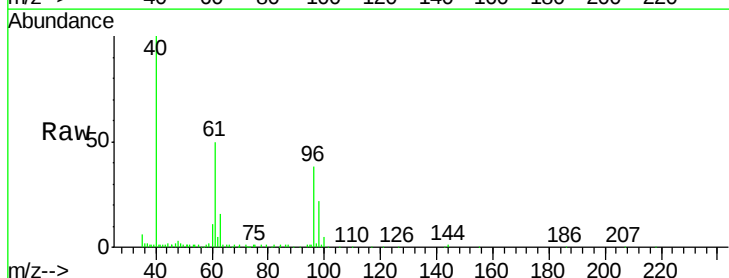
RT: 4.60 min Scan# 566

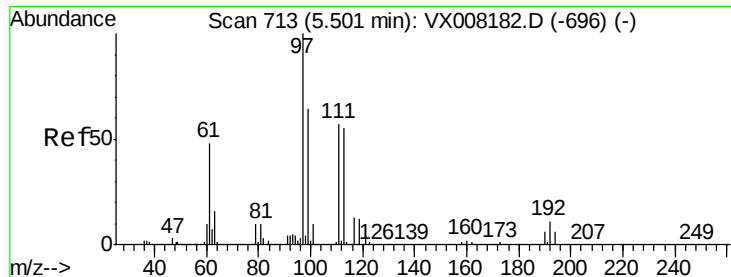
Delta R.T. 0.01 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

Tgt Ion:	96	Resp:	14856
Ion	Ratio	Lower	Upper
96	100		
61	142.9	0.0	288.0
98	64.6	0.0	129.0





#32

1,1,1-Trichloroethane

Concen: 0.217 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

Instrument :

MSVOA_X

ClientSampled :

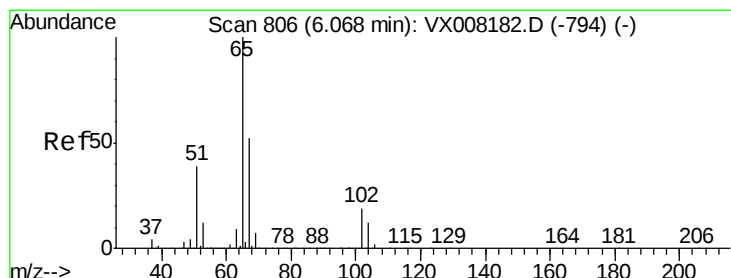
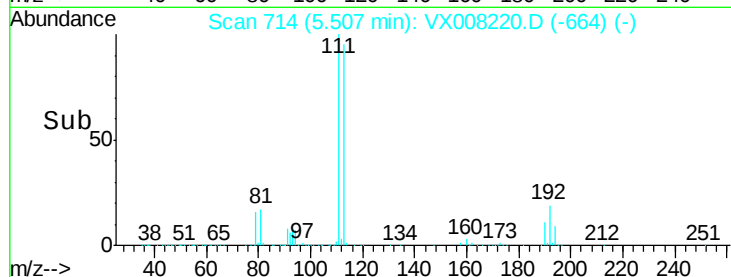
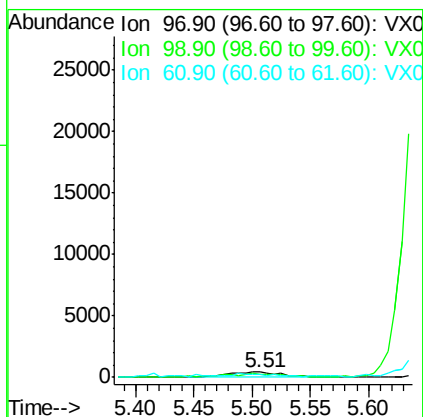
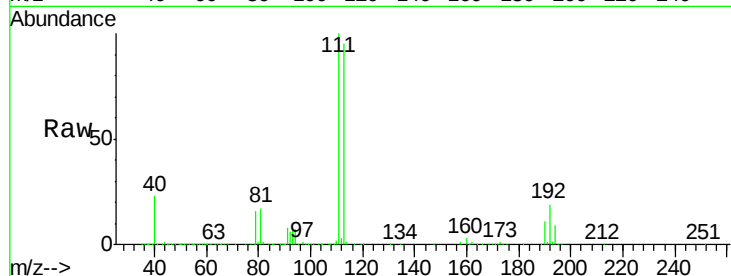
Tot Ion: 97 Resp: 1486

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

61 38.2 34.9 52.3



#33

1,2-Dichloroethane-d4

Concen: 46.053 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008220.D

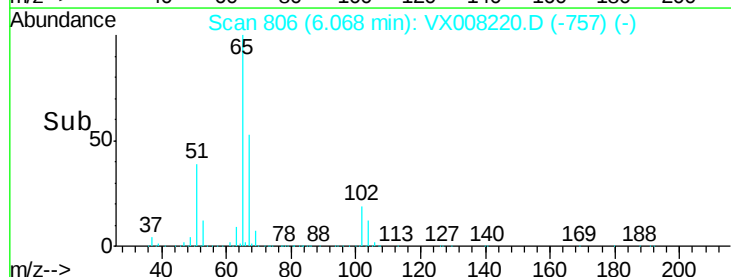
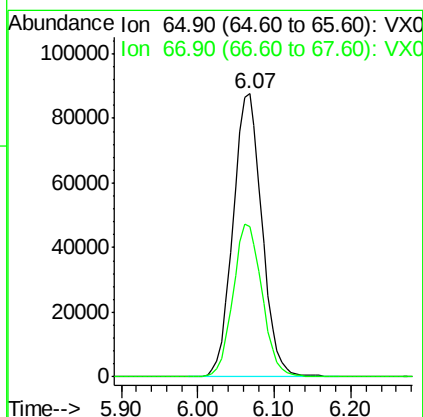
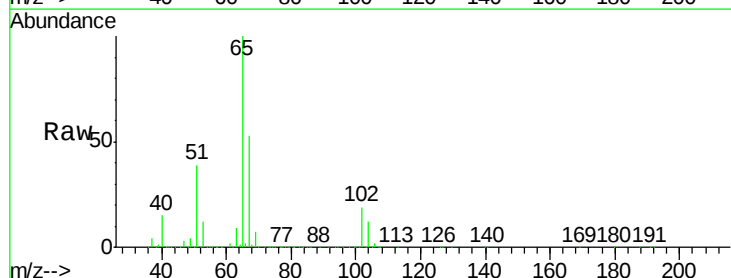
Acq: 20 Mar 2019 04:27

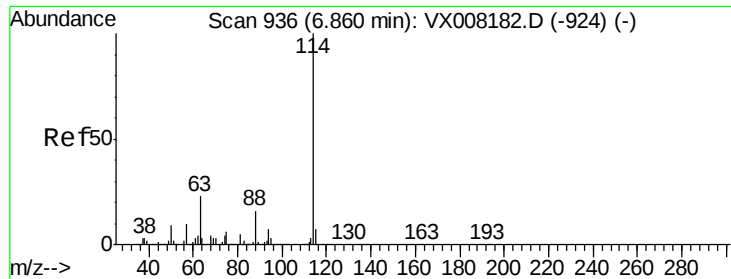
Tgt Ion: 65 Resp: 229589

Ion Ratio Lower Upper

65 100

67 53.8 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

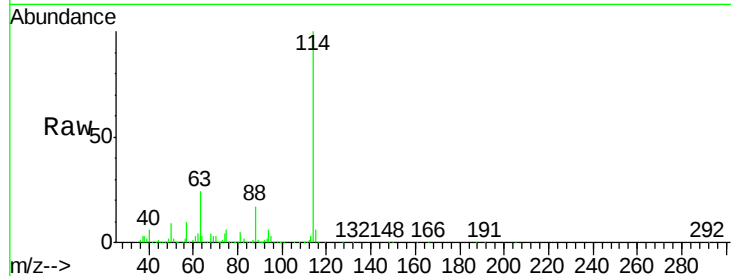
Tot Ion:114 Resp: 534867

Ion Ratio Lower Upper

114 100

63 23.6 0.0 39.8

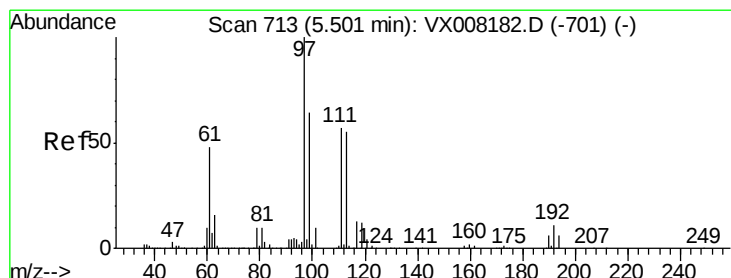
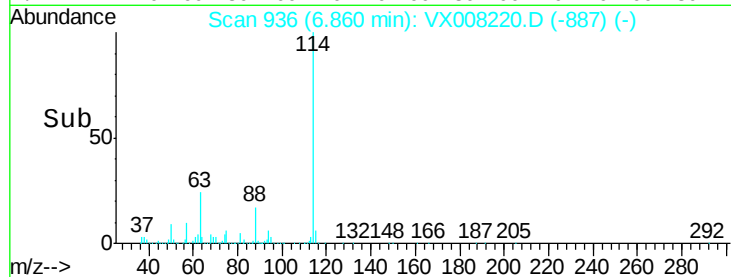
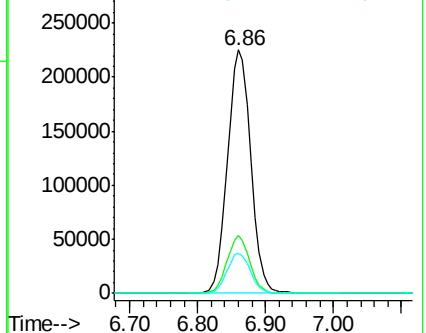
88 16.6 0.0 31.4



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: 47.150 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

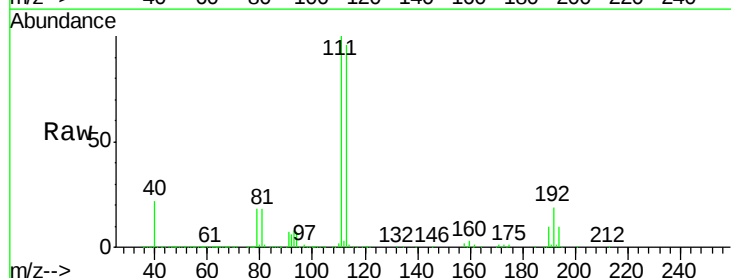
Tgt Ion:113 Resp: 168823

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

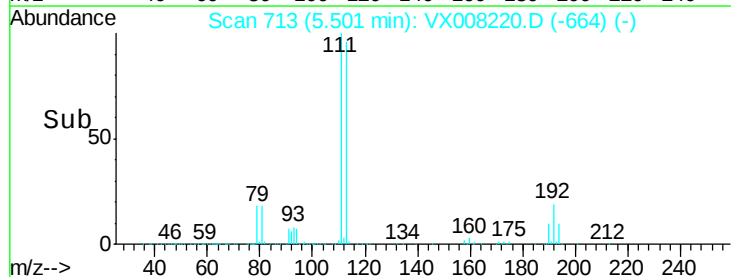
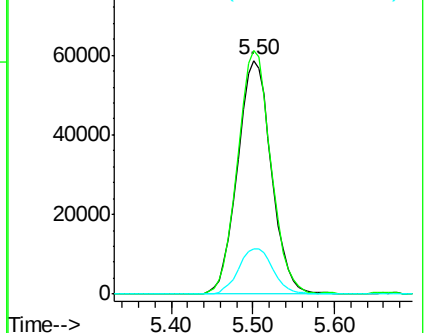
192 20.1 19.4 29.0

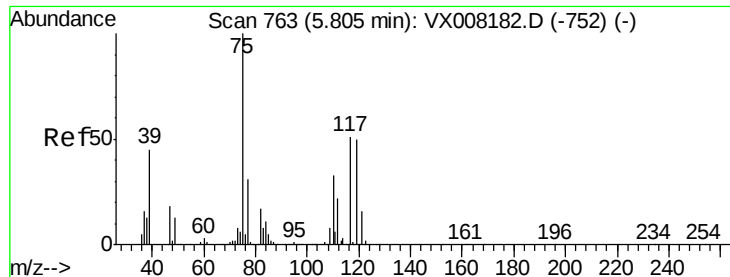


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

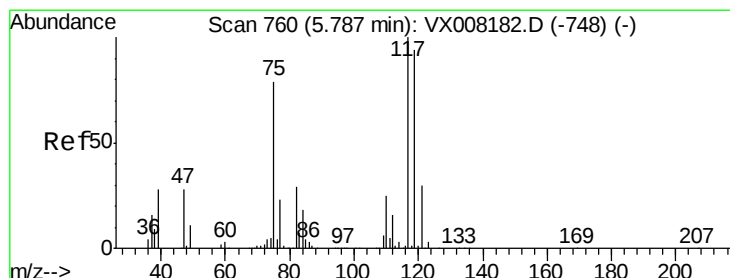
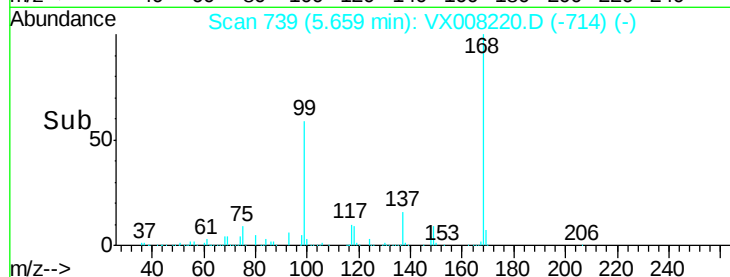
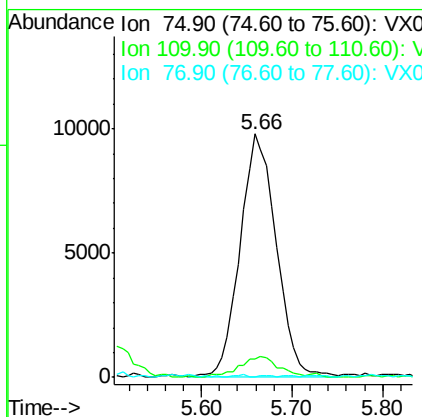
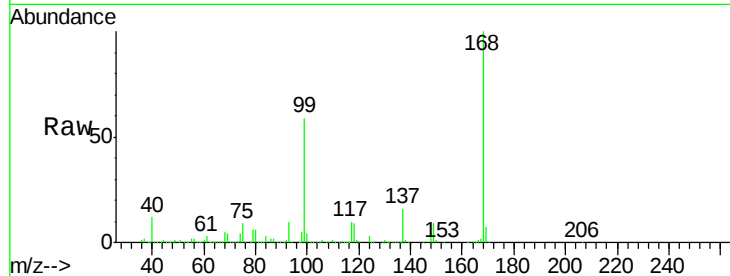




#36
 1,1-Dichloropropene
 Concen: 4.376 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.15 min
 Lab File: VX008220.D
 Acq: 20 Mar 2019 04:27

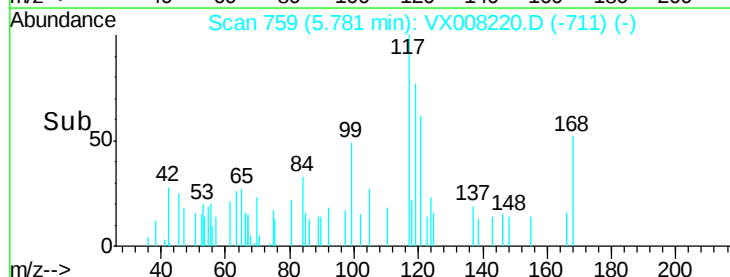
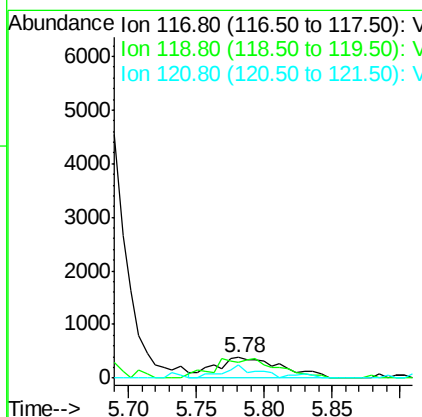
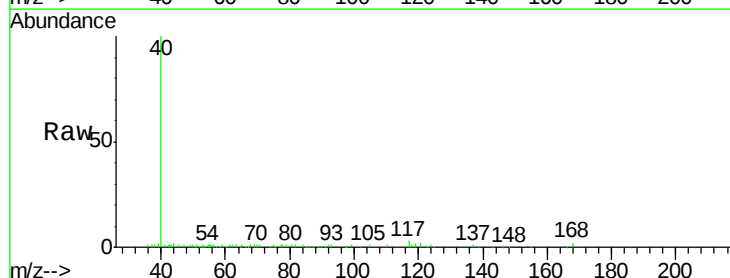
Instrument :
 MSVOA_X
 ClientSampled :

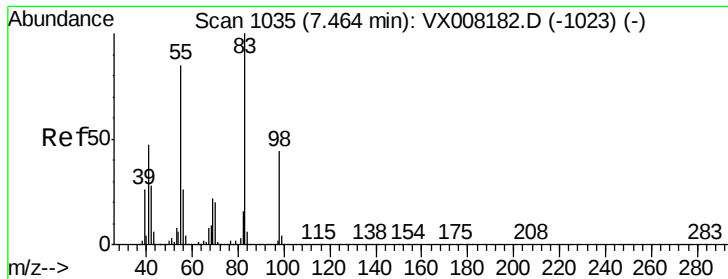
Tot Ion: 75 Resp: 27253
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.4 55.0#
 77 0.3 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 0.240 ug/l
 RT: 5.78 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VX008220.D
 Acq: 20 Mar 2019 04:27

Tgt Ion: 117 Resp: 1330
 Ion Ratio Lower Upper
 117 100
 119 77.3 76.2 114.2
 121 61.6 24.6 36.8#

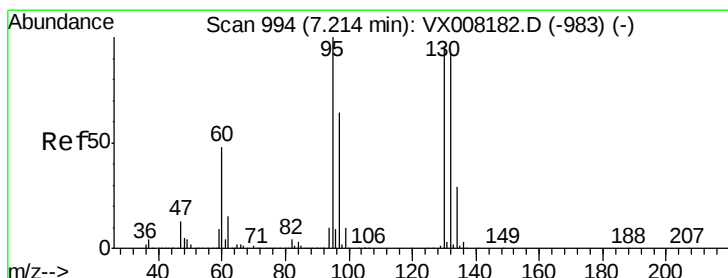
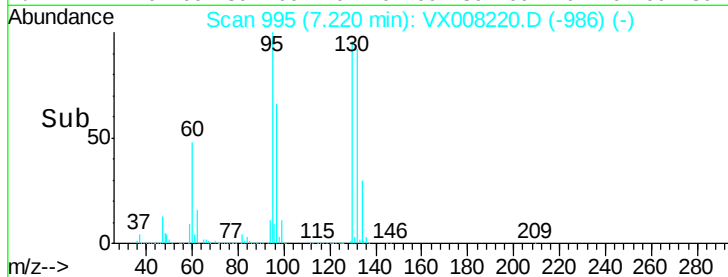
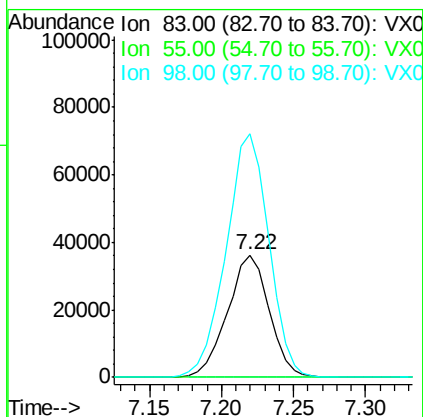
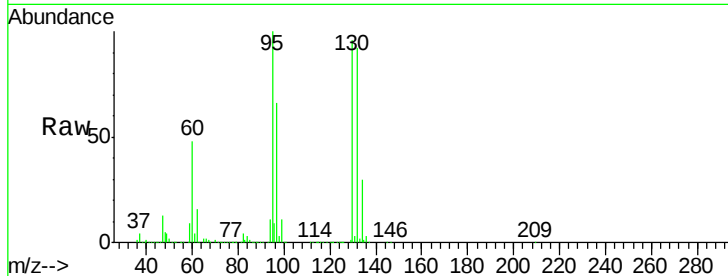




#39
Methvlcvclohexane
Concen: 9.729 ug/l
RT: 7.22 min Scan# 995
Delta R.T. -0.24 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

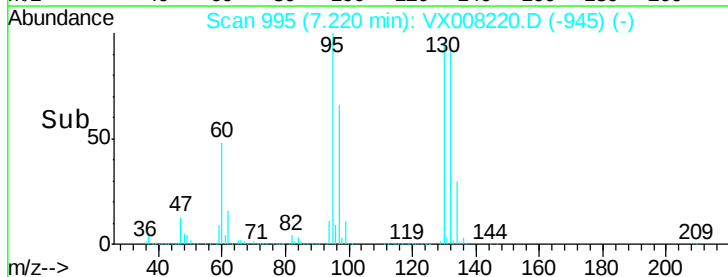
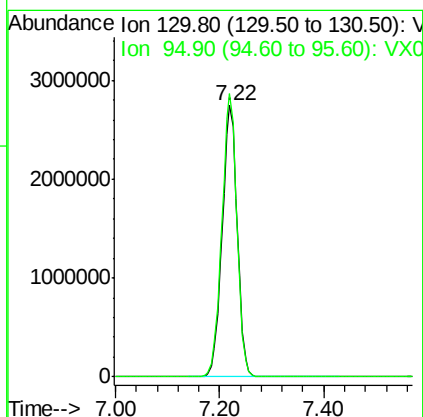
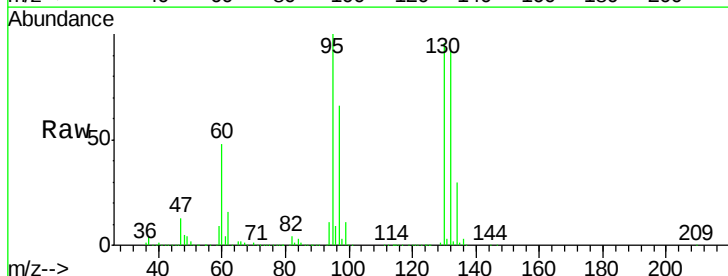
Instrument :
MSVOA_X
ClientSampleId :

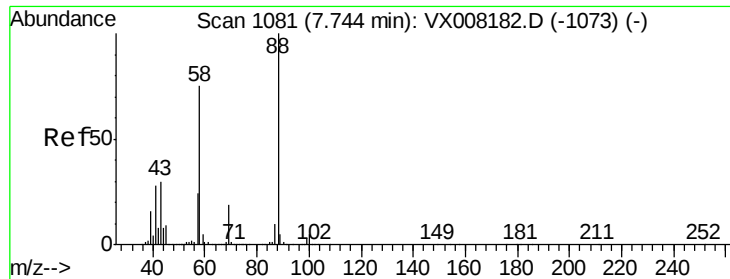
Tot Ion: 83 Resp: 72910
Ion Ratio Lower Upper
83 100
55 0.4 60.4 90.6#
98 198.9 36.5 54.7#



#44
Trichloroethene
Concen: 1253.356 ug/l
RT: 7.22 min Scan# 995
Delta R.T. 0.01 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

Tgt Ion:130 Resp: 5648459
Ion Ratio Lower Upper
130 100
95 104.2 0.0 188.0





#49

1,4-Dioxane

Concen: 16.945 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

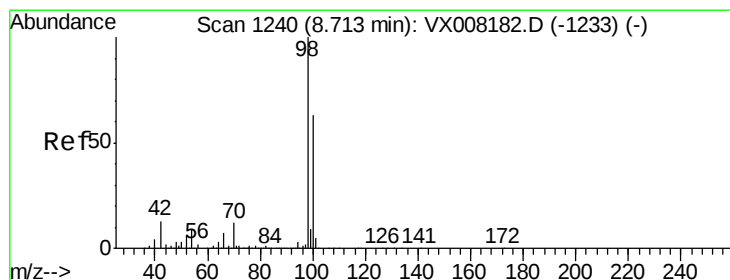
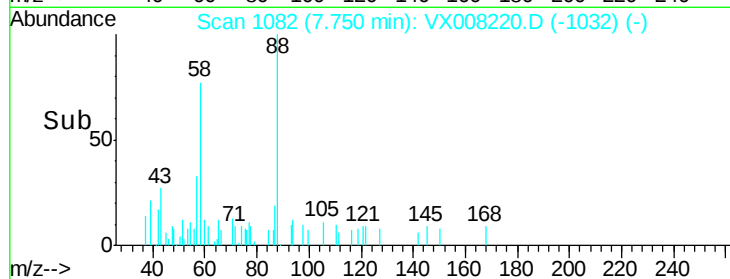
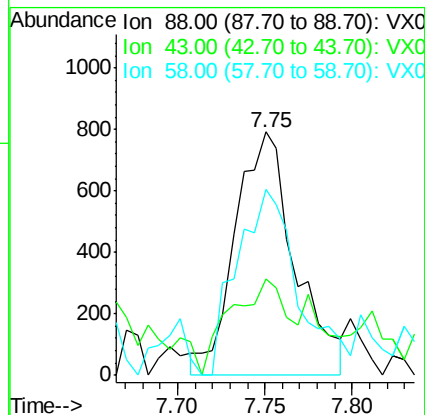
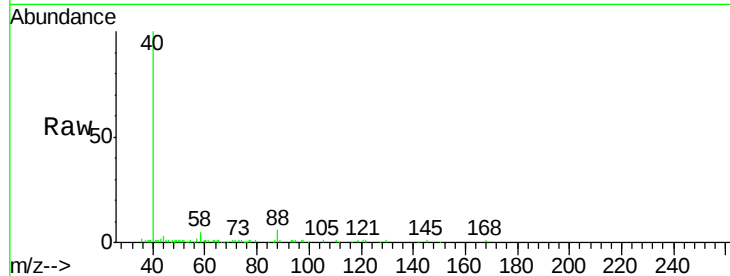
Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 1876

Ion	Ratio	Lower	Upper
88	100		
43	38.1	25.1	37.7#
58	79.4	57.8	86.6



#50

Toluene-d8

Concen: 48.794 ug/l

RT: 8.71 min Scan# 1240

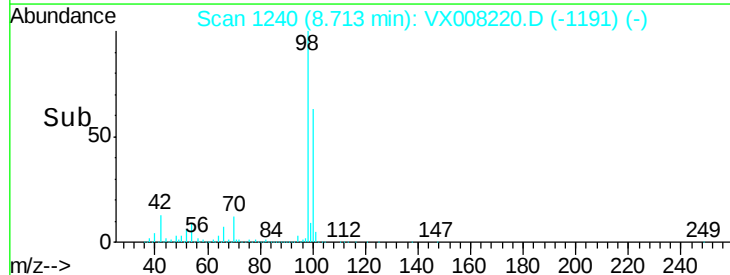
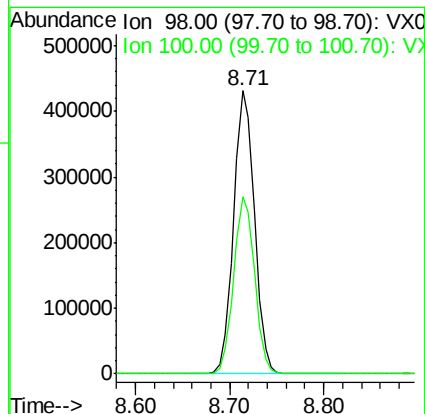
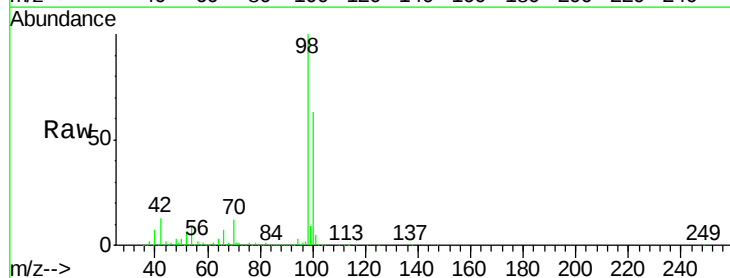
Delta R.T. 0.00 min

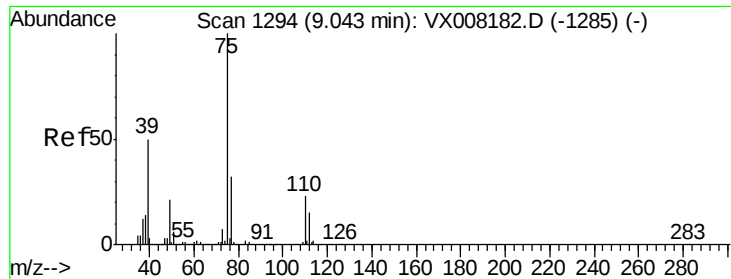
Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

Tgt Ion: 98 Resp: 662389

Ion	Ratio	Lower	Upper
98	100		
100	62.8	51.7	77.5

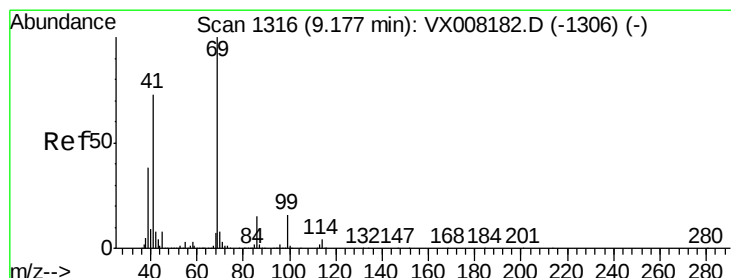
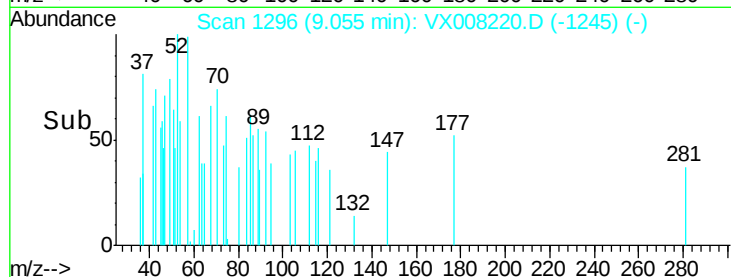
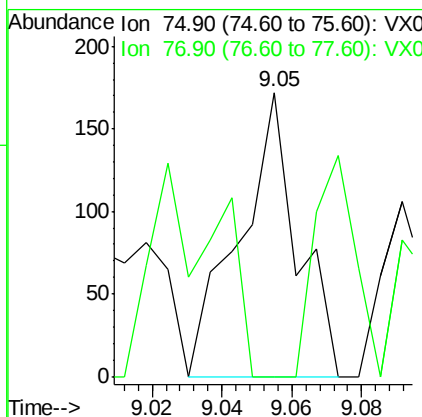
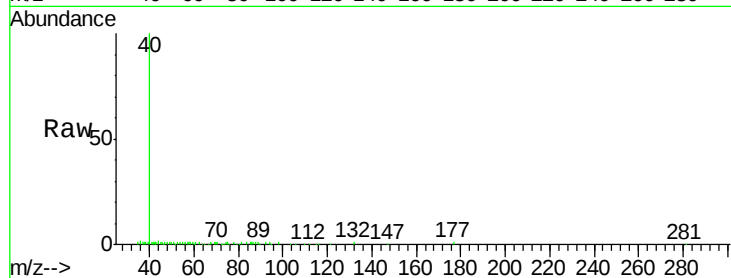




#53
t-1,3-Dichloropropene
Concen: 1.448 ug/l
RT: 9.05 min Scan# 1296
Delta R.T. 0.01 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

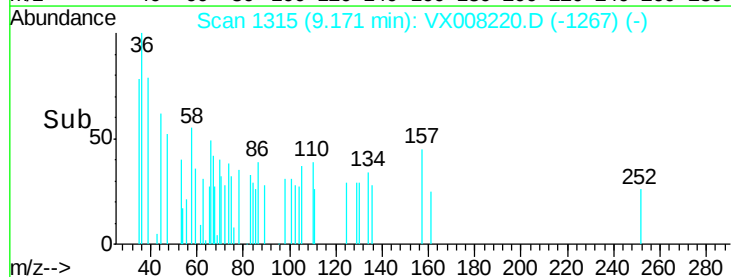
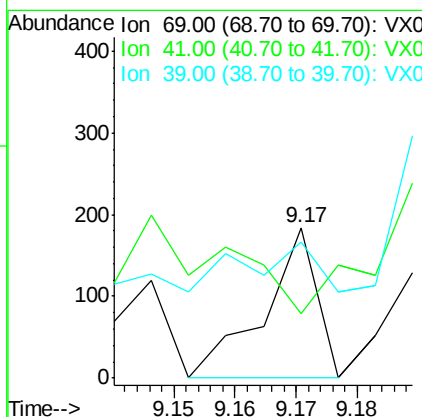
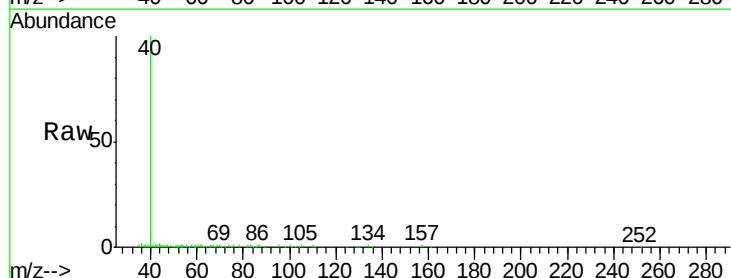
Instrument :
MSVOA_X
ClientSampled :

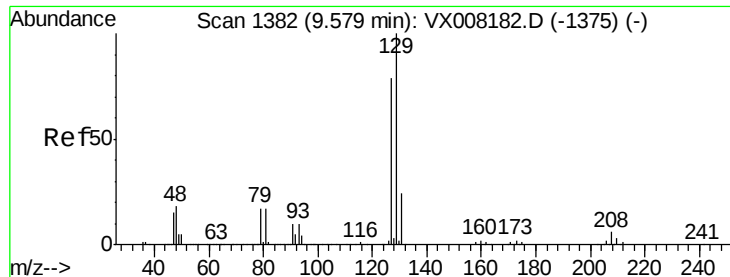
Tot Ion: 75 Resp: 198
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#56
Ethyl methacrylate
Concen: 0.540 ug/l
RT: 9.17 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

Tgt Ion: 69 Resp: 109
Ion Ratio Lower Upper
69 100
41 0.0 54.2 81.4#
39 44.0 25.0 37.4#





#60

Dibromochloromethane

Concen: 1.895 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

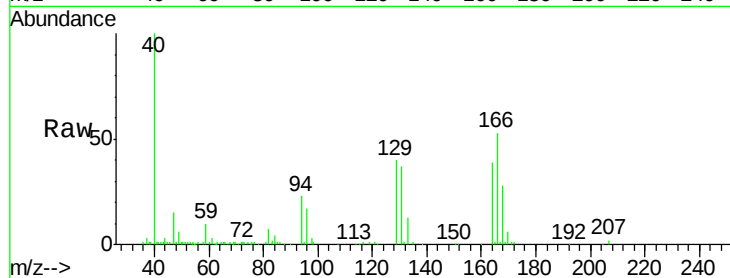
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 8045

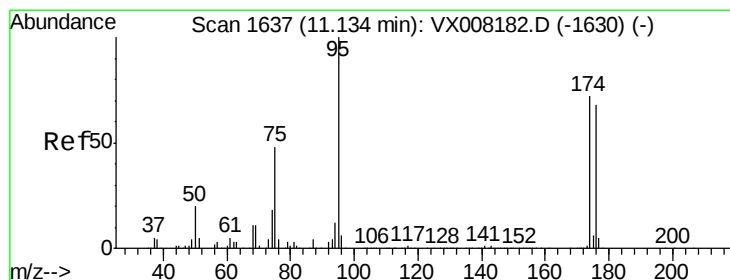
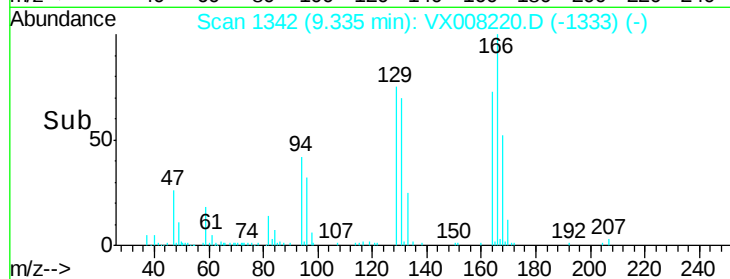
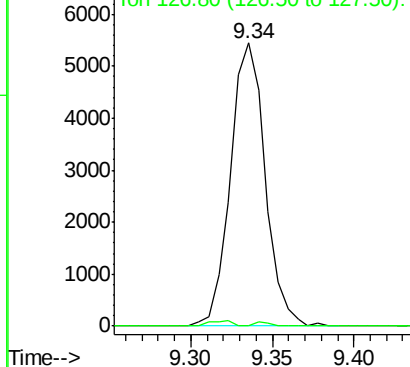
Ion Ratio Lower Upper

129 100

127 0.6 38.3 114.8#



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



#62

4-Bromofluorobenzene

Concen: 45.291 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

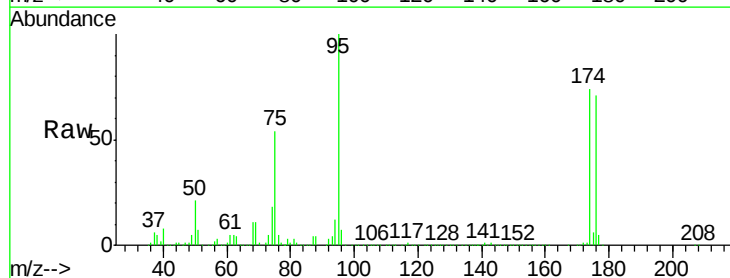
Tgt Ion: 95 Resp: 211699

Ion Ratio Lower Upper

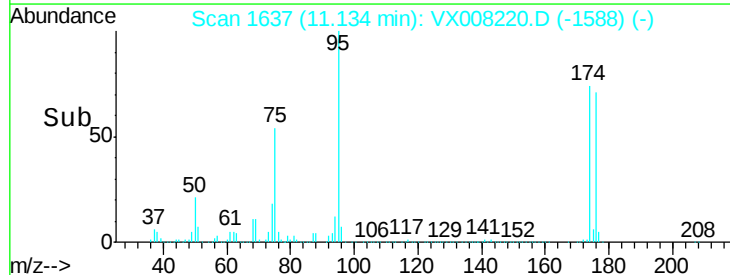
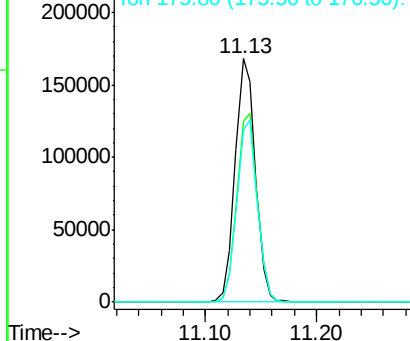
95 100

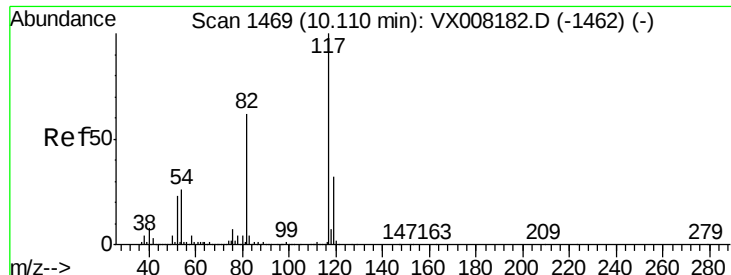
174 79.0 0.0 182.8

176 75.6 0.0 178.0



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

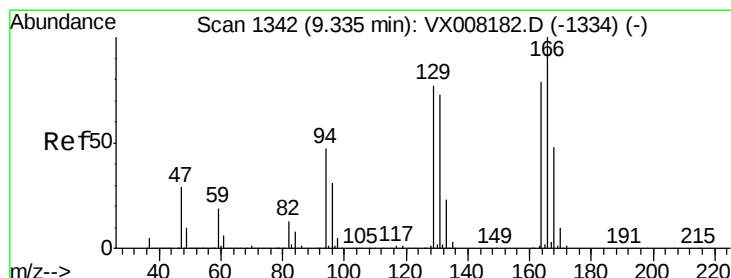
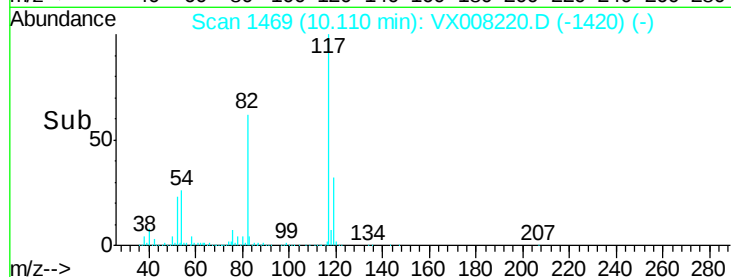
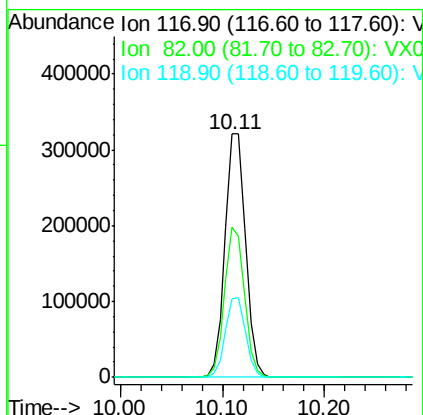
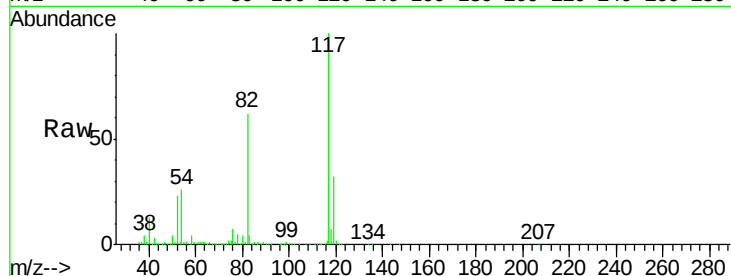




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

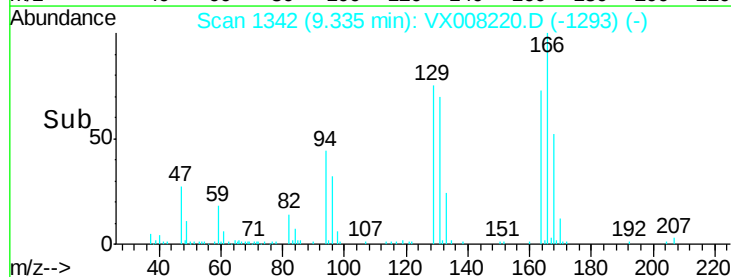
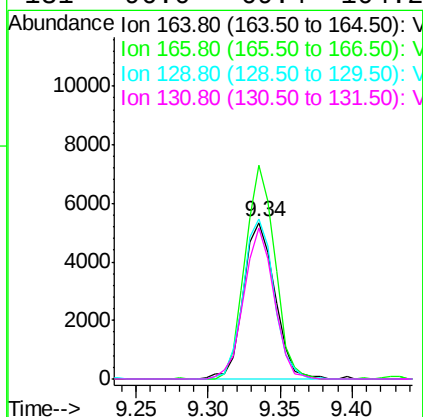
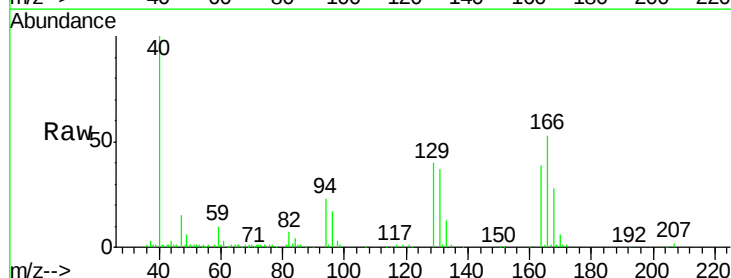
Instrument :
MSVOA_X
ClientSampleId :

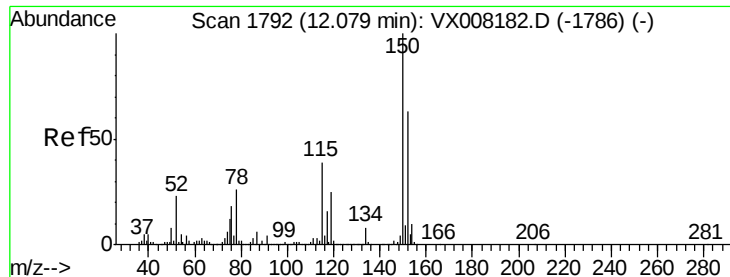
Tot Ion:117 Resp: 450136
Ion Ratio Lower Upper
117 100
82 61.8 44.3 66.5
119 32.3 25.3 37.9



#64
Tetrachloroethene
Concen: 1.989 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

Tgt Ion:164 Resp: 8078
Ion Ratio Lower Upper
164 100
166 136.2 103.4 155.0
129 101.7 72.2 108.4
131 96.0 69.4 104.2



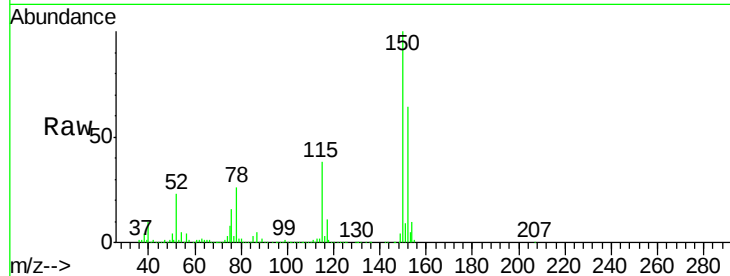


#72

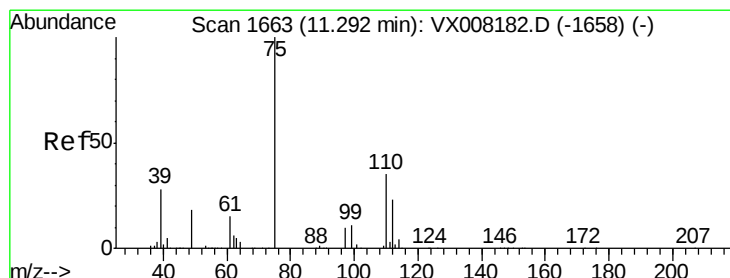
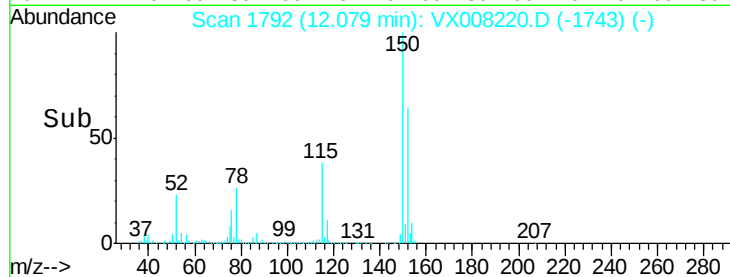
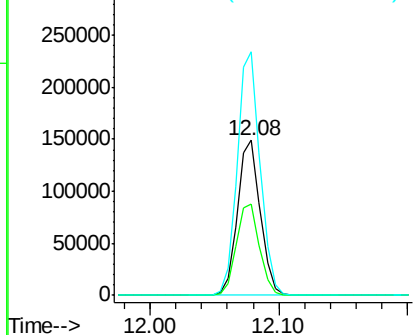
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.4	38.6	115.7
150	157.5	0.0	348.4



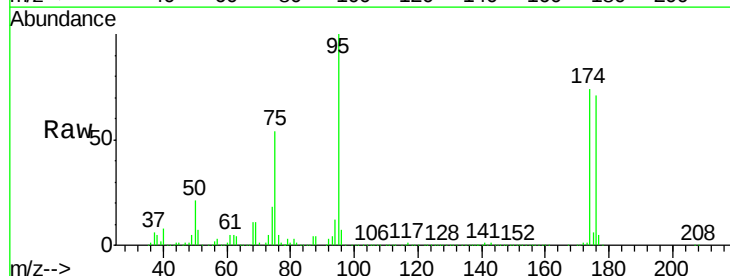
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



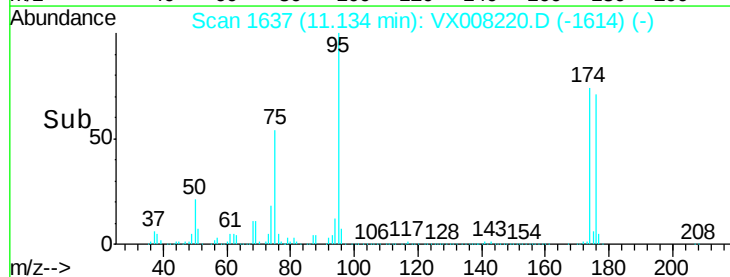
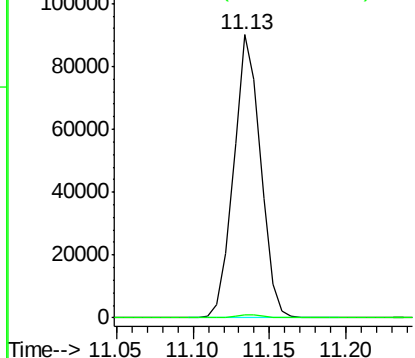
#76

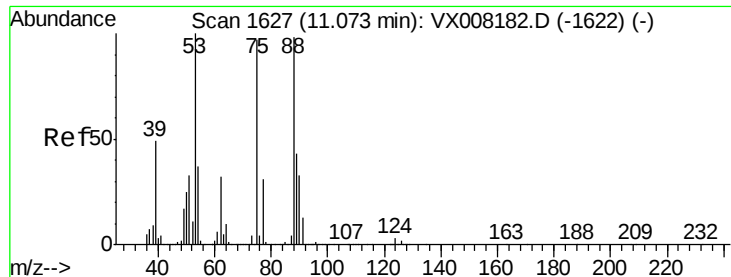
1,2,3-Trichloropropane
Concen: 21.233 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008220.D
Acq: 20 Mar 2019 04:27

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	18.9	56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.012 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008220.D

Acq: 20 Mar 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 109401

Ion Ratio Lower Upper

75 100

53 0.3 76.1 114.1#

89 0.1 36.3 54.5#

