

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121718\
 Data File : VX006574.D
 Acq On : 17 Dec 2018 15:52
 Operator : JC/MD
 Sample : J6405-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 18 00:40:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	663644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1072450	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	982194	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	464896	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	370214	54.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.30%	
35) Dibromofluoromethane	5.50	113	321810	46.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.70%	
50) Toluene-d8	8.71	98	1266657	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
62) 4-Bromofluorobenzene	11.13	95	469531	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	

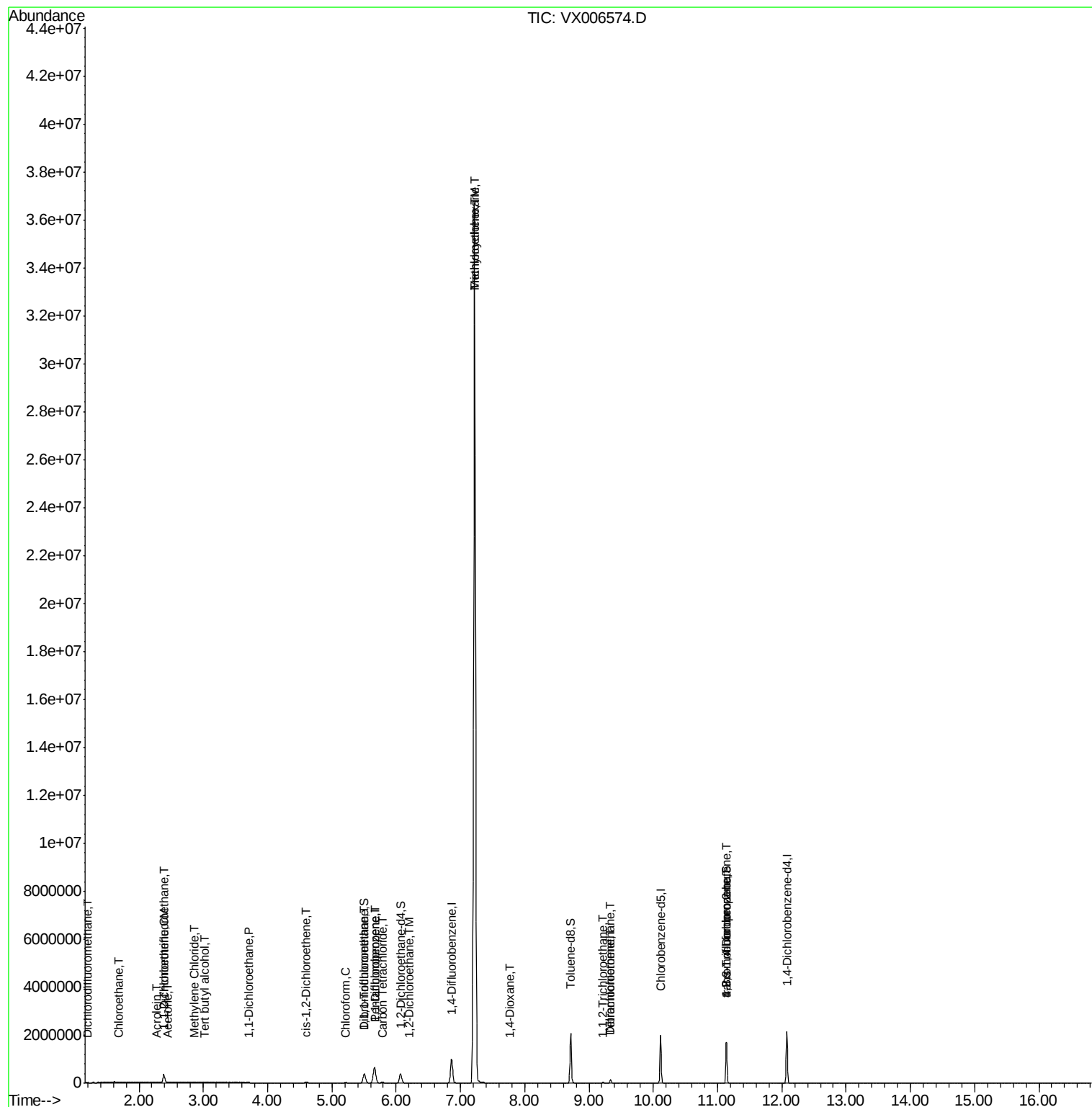
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1812	0.279	ug/l #	67
6) Chloroethane	1.68	64	1370	0.311	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	104604	16.675	ug/l	99
11) Tert butyl alcohol	3.02	59	16756	9.044	ug/l #	76
12) 1,1-Dichloroethene	2.38	96	45432	7.566	ug/l	88
13) Acrolein	2.28	56	552	0.545	ug/l	94
16) Acetone	2.45	43	4740	1.491	ug/l	94
20) Methylene Chloride	2.86	84	1502	0.222	ug/l #	67
24) 1,1-Dichloroethane	3.70	63	14431	1.363	ug/l #	92
27) cis-1,2-Dichloroethene	4.60	96	25409	3.560	ug/l	90
30) Chloroform	5.22	83	14822	1.332	ug/l	90
32) 1,1,1-Trichloroethane	5.50	97	5115	0.483	ug/l #	43
36) 1,1-Dichloropropene	5.66	75	47408	5.249	ug/l #	48
38) Carbon Tetrachloride	5.79	117	15453	1.454	ug/l #	87
39) Methylcyclohexane	7.22	83	164314	14.017	ug/l #	1
42) 1,2-Dichloroethane	6.20	62	2692	0.304	ug/l	90
44) Trichloroethene	7.22	130	13915689	1698.212	ug/l	93
49) 1,4-Dioxane	7.76	88	3624	17.924	ug/l #	69
55) 1,1,2-Trichloroethane	9.22	97	7407	1.025	ug/l	93
60) Dibromochloromethane	9.34	129	23924	2.684	ug/l #	11
64) Tetrachloroethene	9.34	164	24421	3.302	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	213413	23.783	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	213413	55.813	ug/l #	15

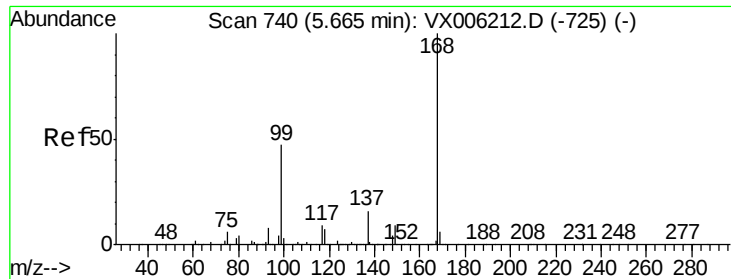
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Dec 18 00:40:12 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
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: VX006574.D

Acq: 17 Dec 2018 15:52

Instrument :

MSVOA_X

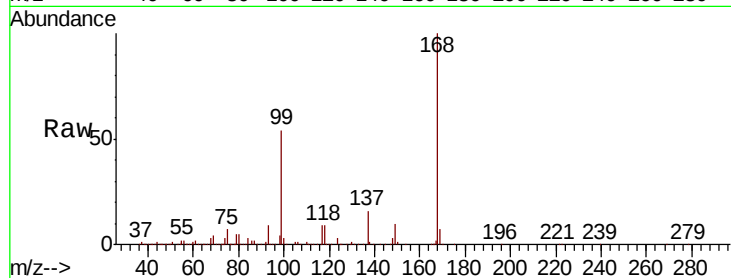
ClientSampleId :

Tot Ion:168 Resp: 663644

Ion Ratio Lower Upper

168 100

99 54.3 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

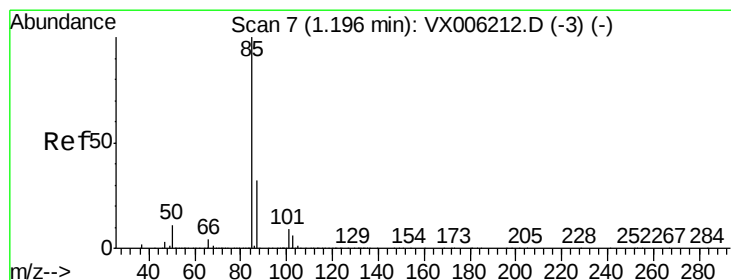
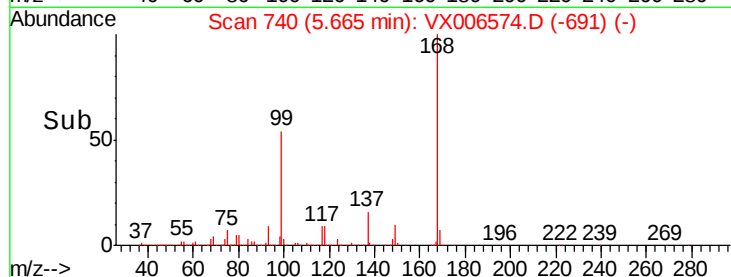
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.279 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006574.D

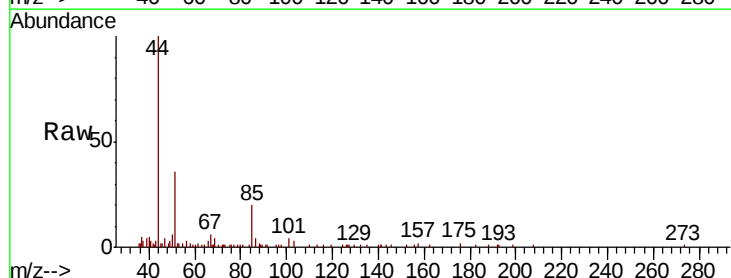
Acq: 17 Dec 2018 15:52

Tgt Ion: 85 Resp: 1812

Ion Ratio Lower Upper

85 100

87 13.7 16.1 48.2#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

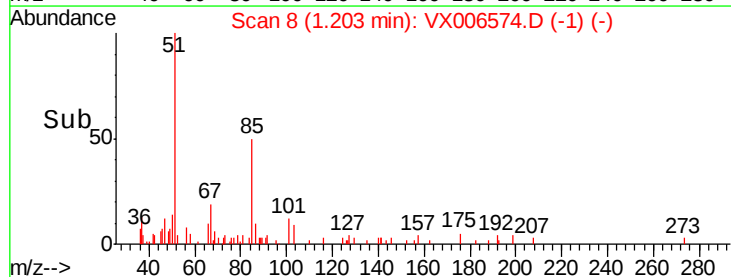
1500

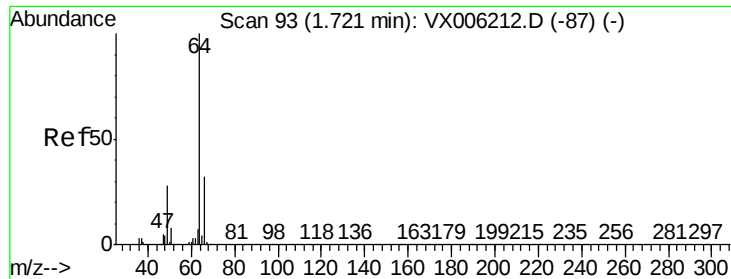
1000

500

0

Time--> 1.15 1.20 1.25





#6

Chloroethane

Concen: 0.311 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

Instrument :

MSVOA_X

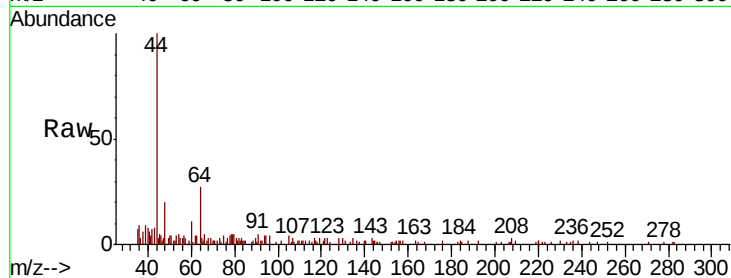
ClientSampleId :

Tot Ion: 64 Resp: 1370

Ion Ratio Lower Upper

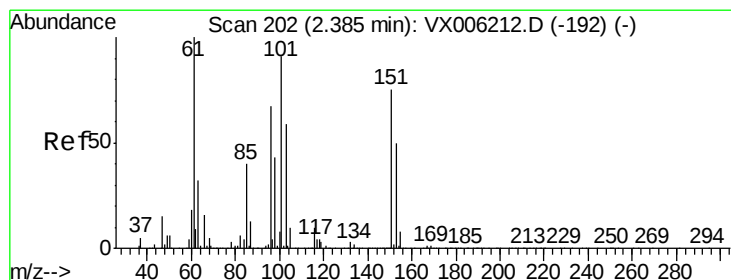
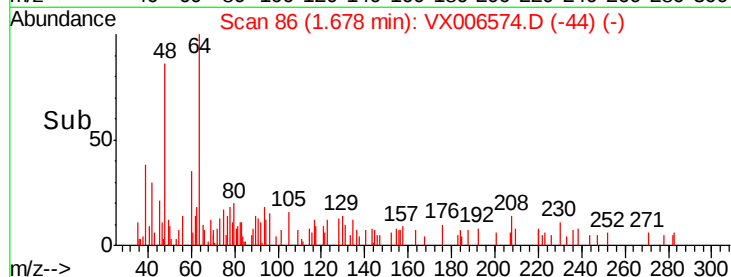
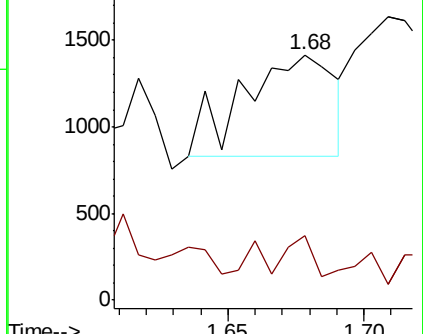
64 100

66 33.0 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 16.675 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

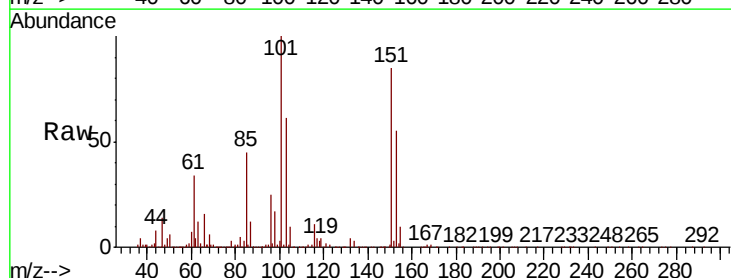
Tgt Ion:101 Resp: 104604

Ion Ratio Lower Upper

101 100

85 43.7 35.5 53.3

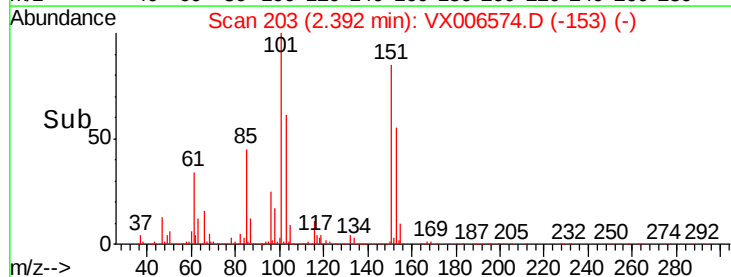
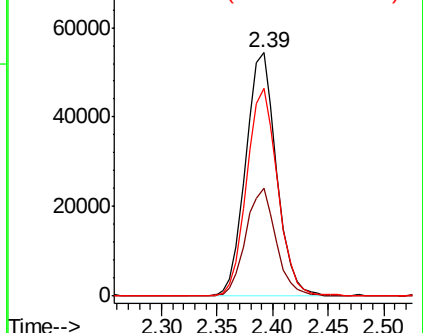
151 86.4 68.6 103.0

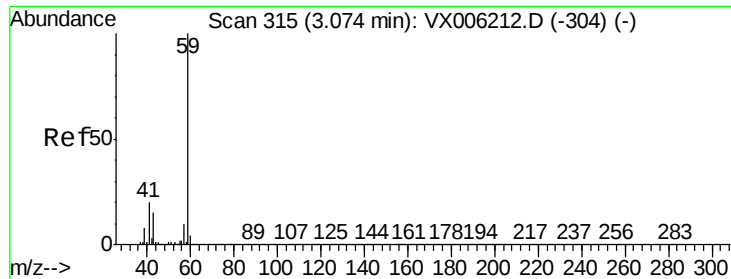


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

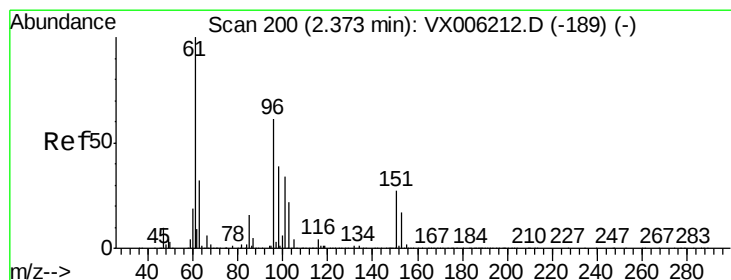
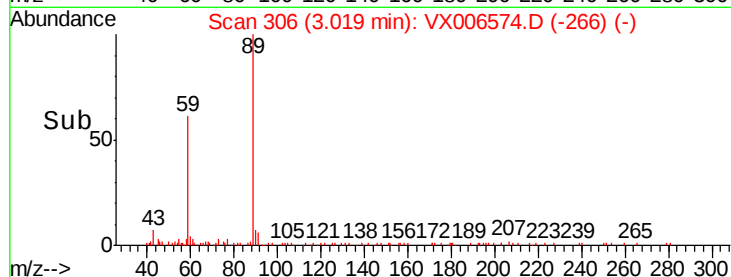
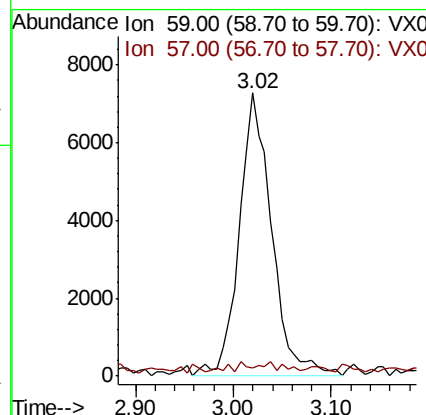
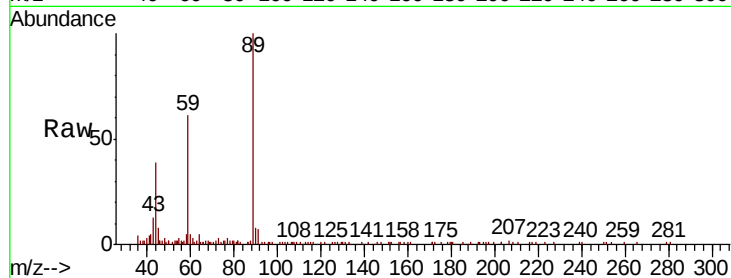




#11
Tert butyl alcohol
Concen: 9.044 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

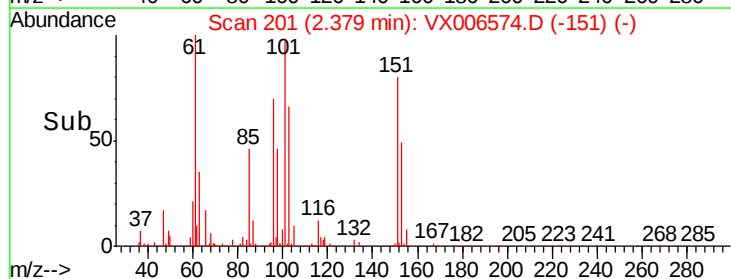
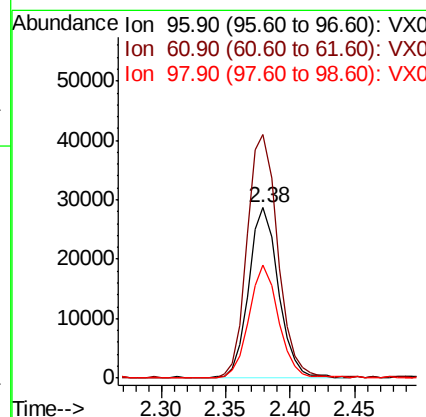
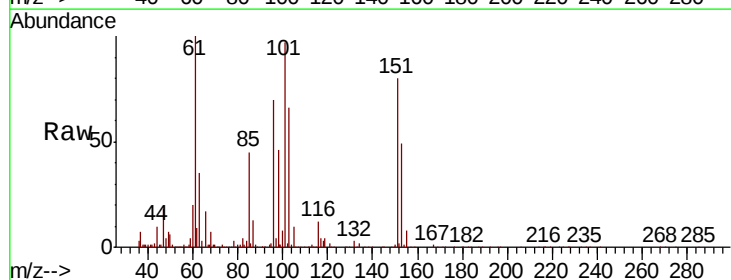
Instrument :
MSVOA_X
ClientSampleId :

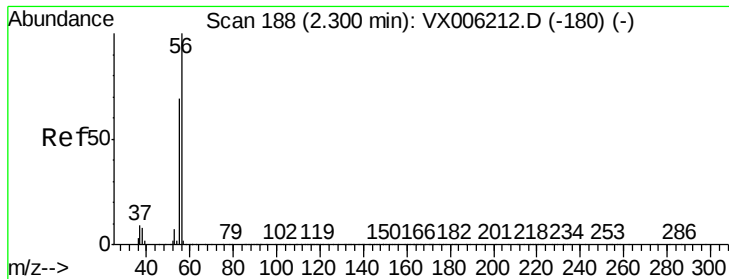
Tot Ion: 59 Resp: 16756
Ion Ratio Lower Upper
59 100
57 1.2 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 7.566 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

Tgt Ion: 96 Resp: 45432
Ion Ratio Lower Upper
96 100
61 143.2 131.7 197.5
98 66.2 51.8 77.6





#13

Acrolein

Concen: 0.545 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

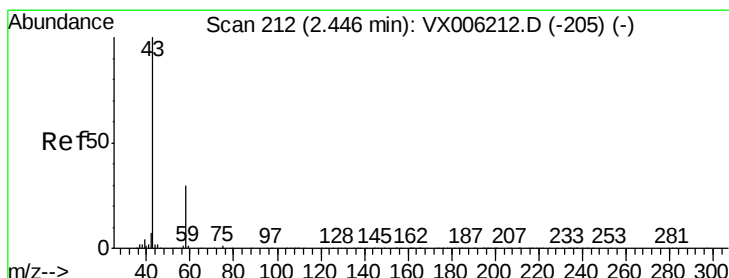
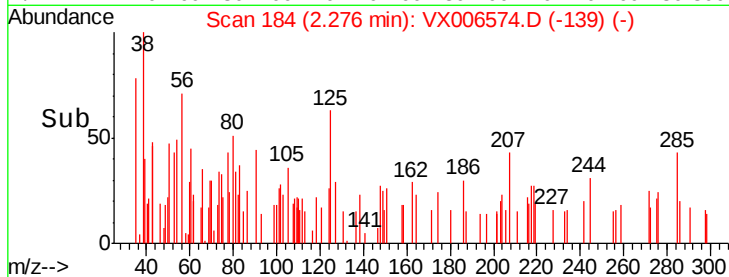
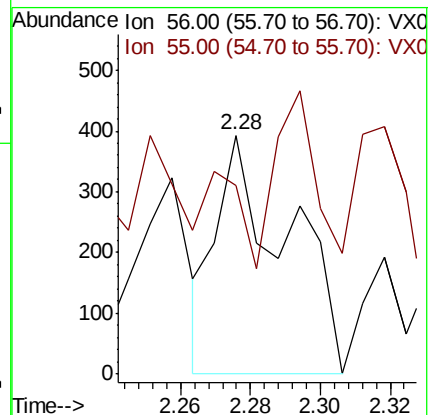
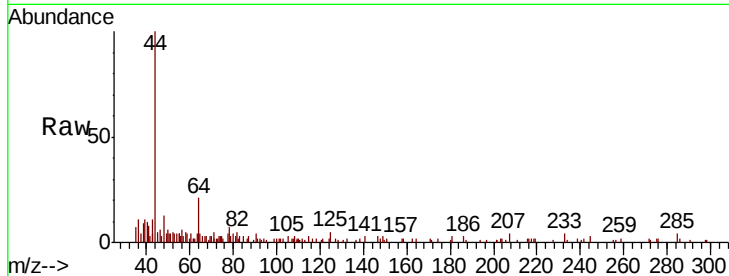
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 552

Ion Ratio Lower Upper

56 100

55 67.6 57.8 86.6



#16

Acetone

Concen: 1.491 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006574.D

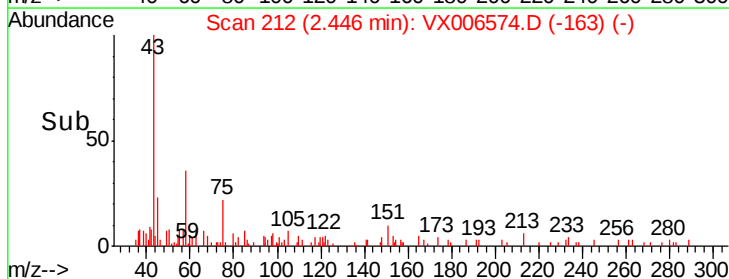
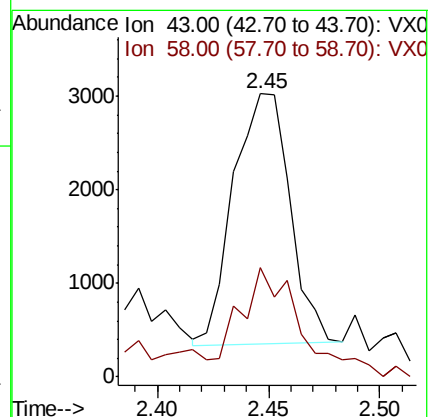
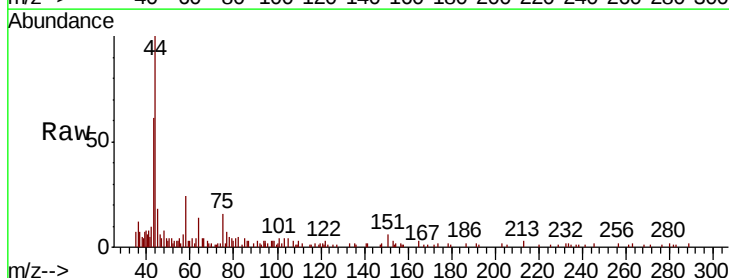
Acq: 17 Dec 2018 15:52

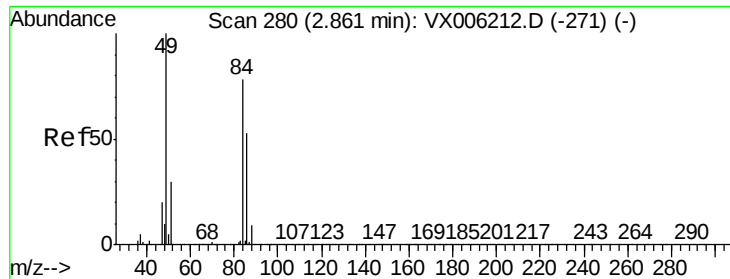
Tgt Ion: 43 Resp: 4740

Ion Ratio Lower Upper

43 100

58 33.0 24.0 36.0

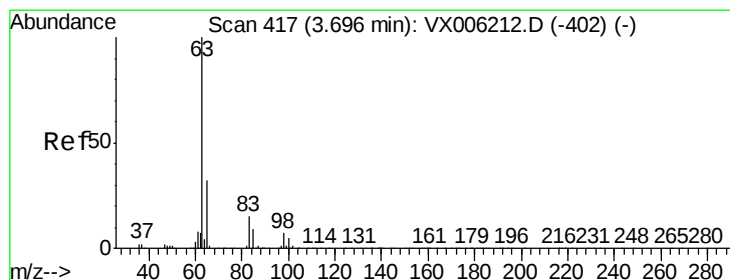
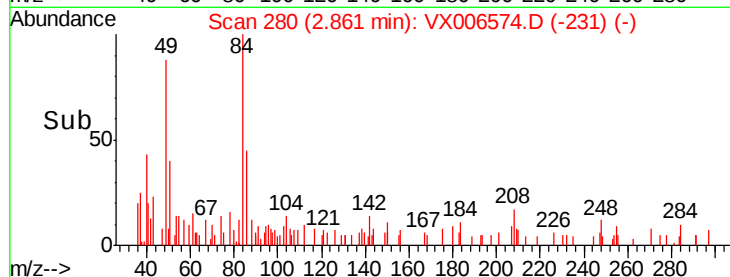
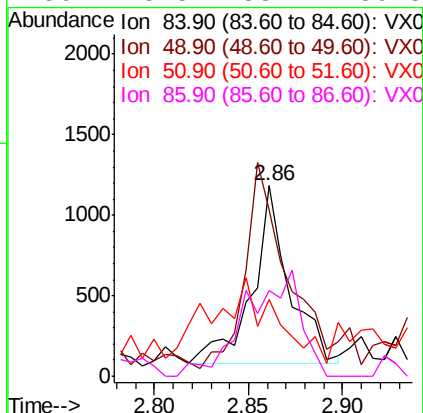
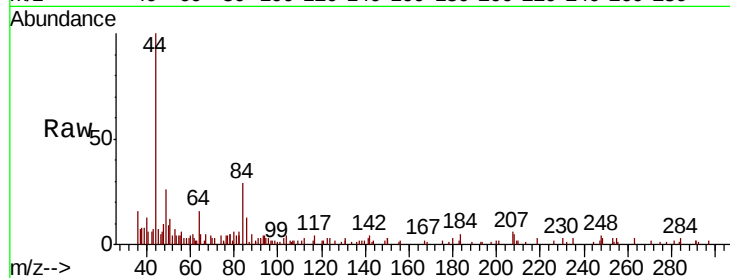




#20
Methvlene Chloride
Concen: 0.222 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

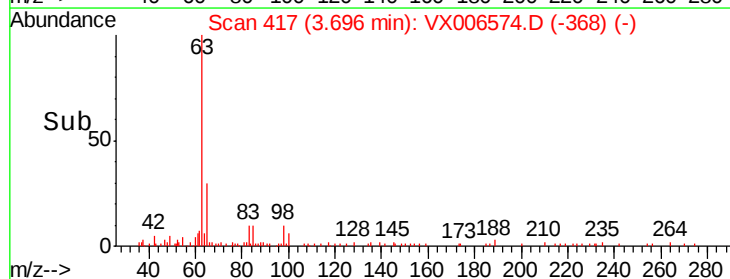
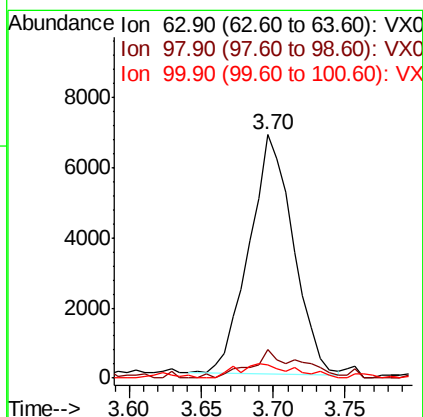
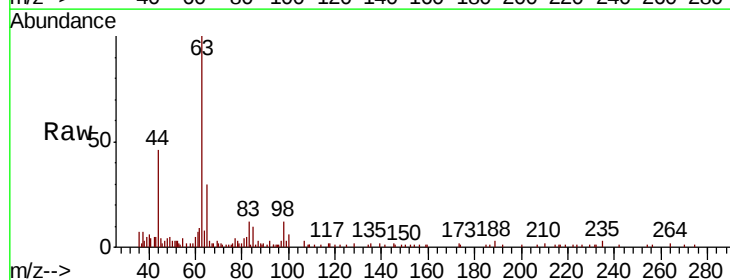
Instrument :
MSVOA_X
ClientSampleId :

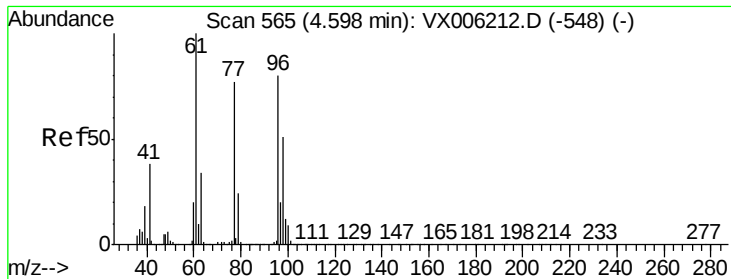
Tot Ion: 84 Resp: 1502
Ion Ratio Lower Upper
84 100
49 85.7 102.2 153.4#
51 14.3 31.1 46.7#
86 48.5 53.7 80.5#



#24
1,1-Dichloroethane
Concen: 1.363 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

Tgt Ion: 63 Resp: 14431
Ion Ratio Lower Upper
63 100
98 12.0 3.8 11.4#
100 5.7 2.5 7.4



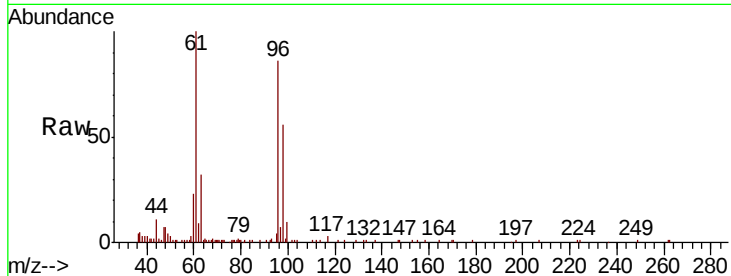


#27

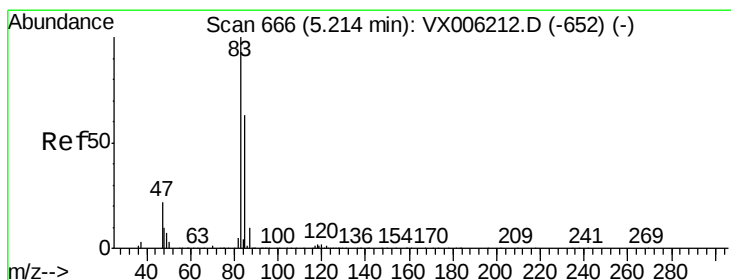
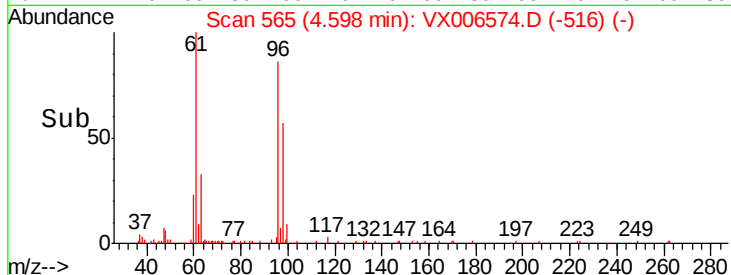
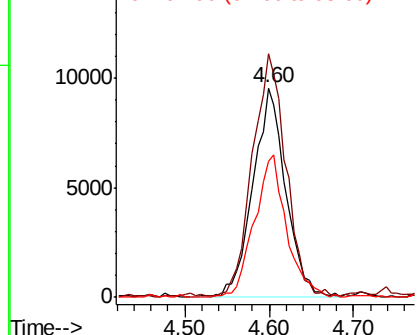
cis-1,2-Dichloroethene
 Concen: 3.560 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX006574.D
 Acq: 17 Dec 2018 15:52

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	96	Resp	25409
Ion	Ratio	Lower	Upper
96	100		
61	116.3	0.0	265.0
98	66.7	0.0	130.2



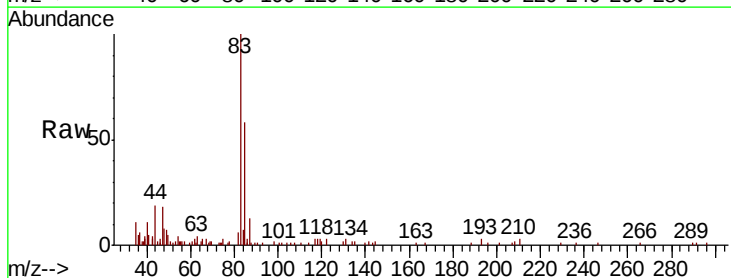
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



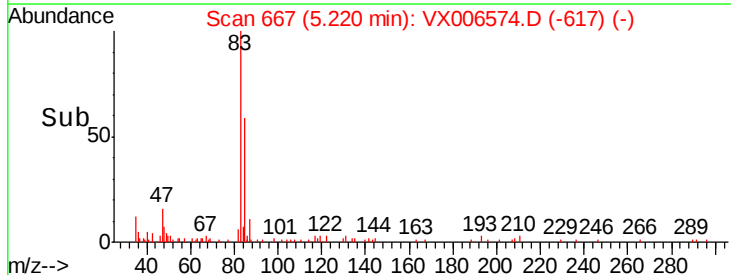
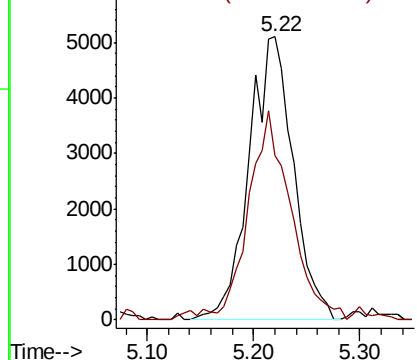
#30

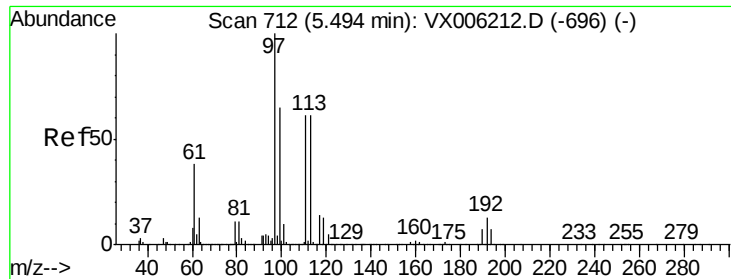
Chloroform
 Concen: 1.332 ug/l
 RT: 5.22 min Scan# 667
 Delta R.T. 0.01 min
 Lab File: VX006574.D
 Acq: 17 Dec 2018 15:52

Tgt Ion	83	Resp	14822
Ion	Ratio	Lower	Upper
83	100		
85	54.9	50.3	75.5



Abundance Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0





#32

1,1,1-Trichloroethane

Concen: 0.483 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

Instrument :

MSVOA_X

ClientSampled :

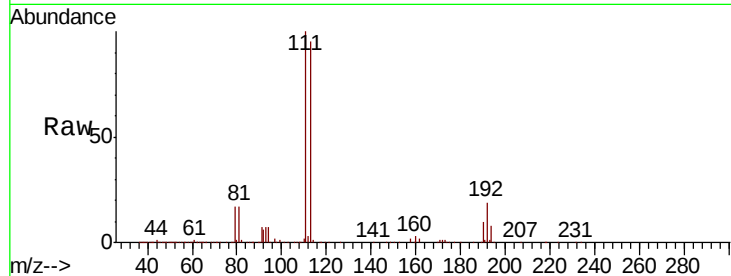
Tot Ion: 97 Resp: 5115

Ion Ratio Lower Upper

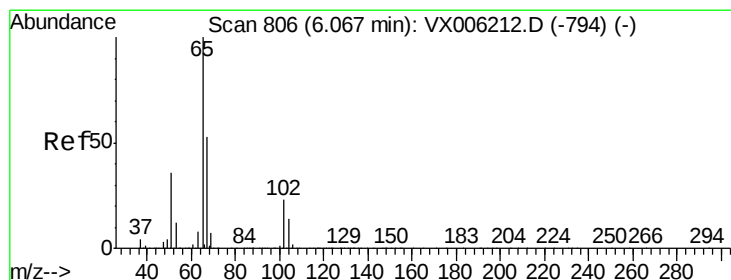
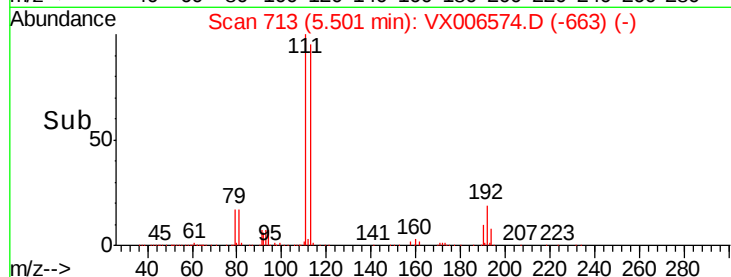
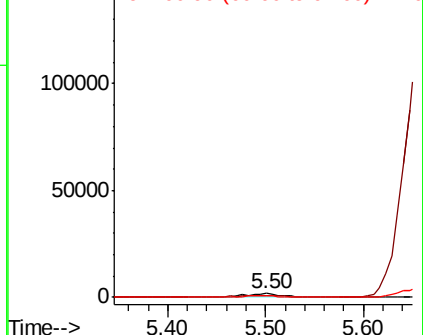
97 100

99 0.0 51.6 77.4#

61 47.9 30.6 46.0#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.646 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006574.D

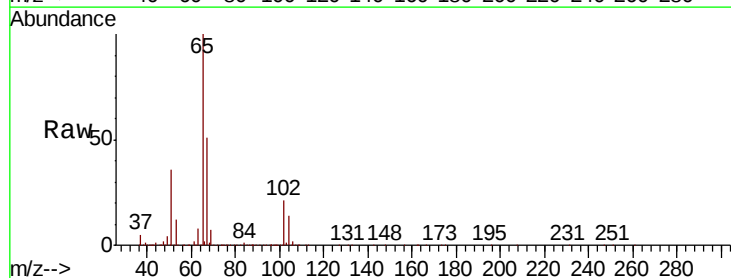
Acq: 17 Dec 2018 15:52

Tgt Ion: 65 Resp: 370214

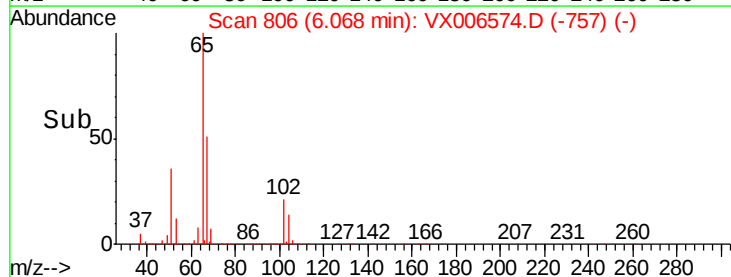
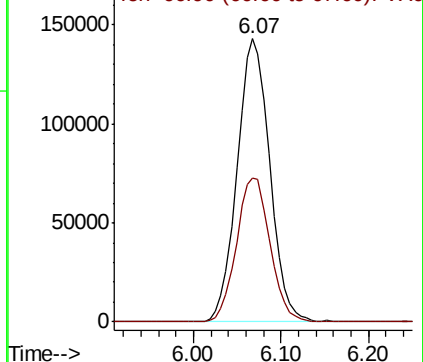
Ion Ratio Lower Upper

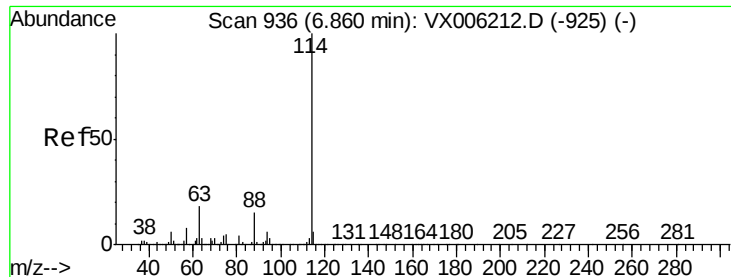
65 100

67 52.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

Instrument :

MSVOA_X

ClientSampleId :

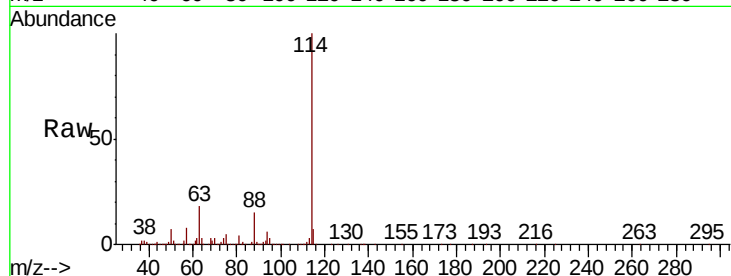
Tot Ion:114 Resp: 1072450

Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.6

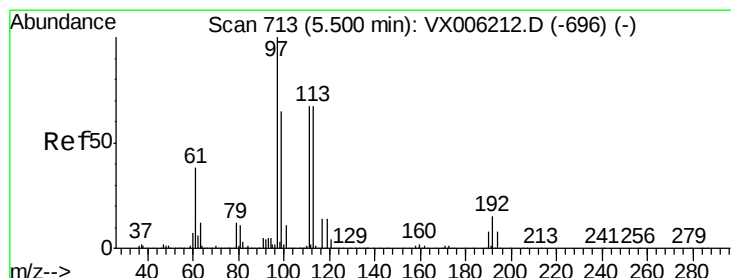
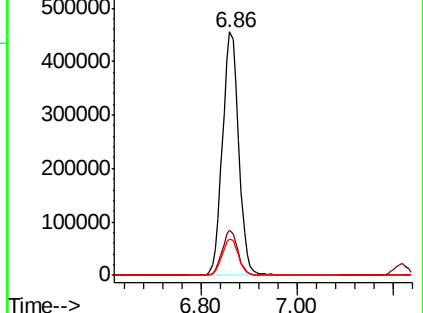
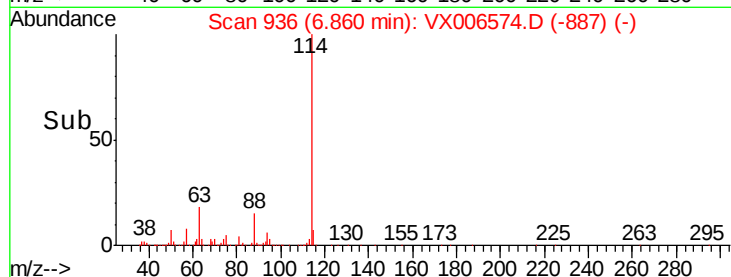
88 15.1 0.0 29.0



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: 46.346 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

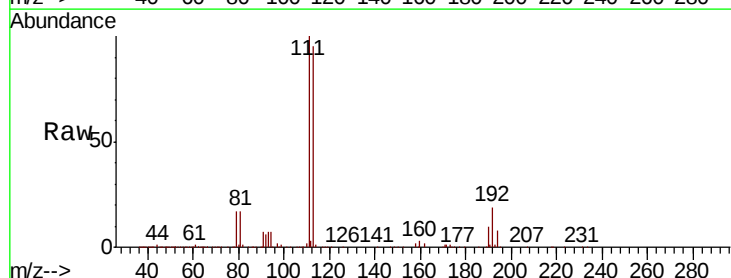
Tgt Ion:113 Resp: 321810

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

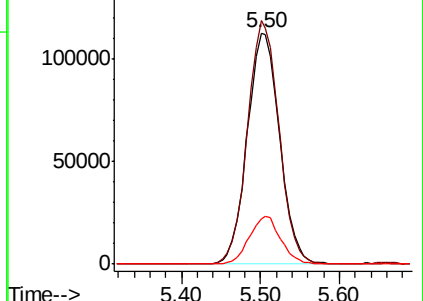
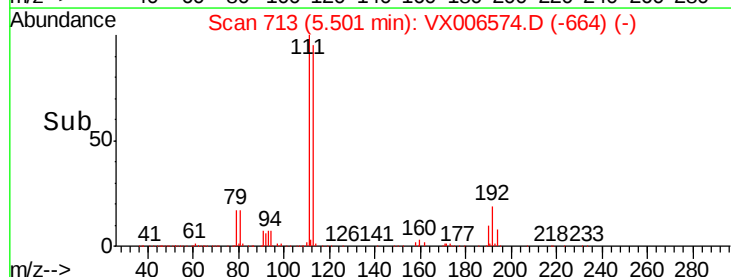
192 20.2 18.2 27.2

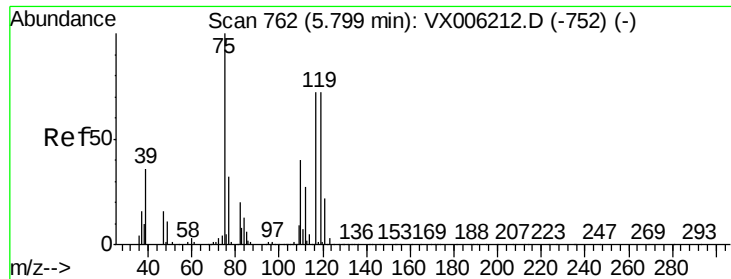


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

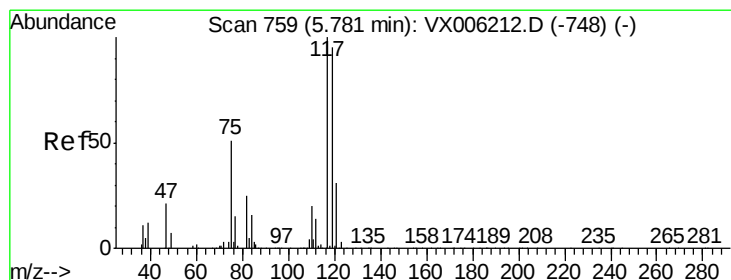
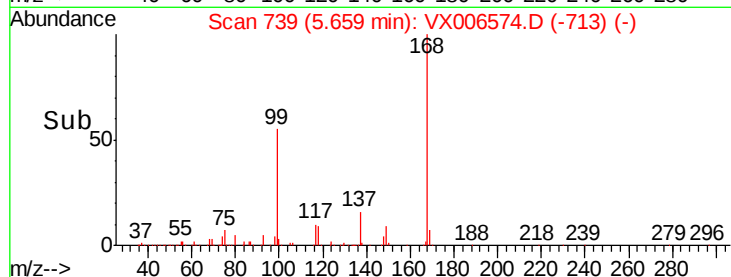
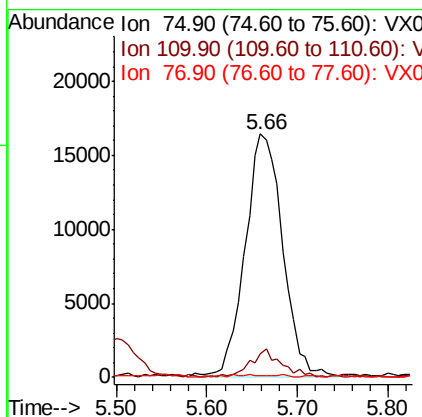
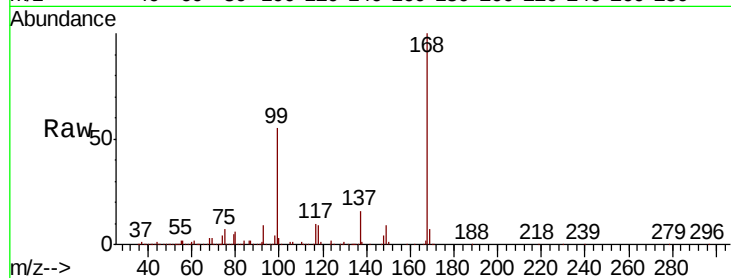




#36
 1,1-Dichloropropene
 Concen: 5.249 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006574.D
 Acq: 17 Dec 2018 15:52

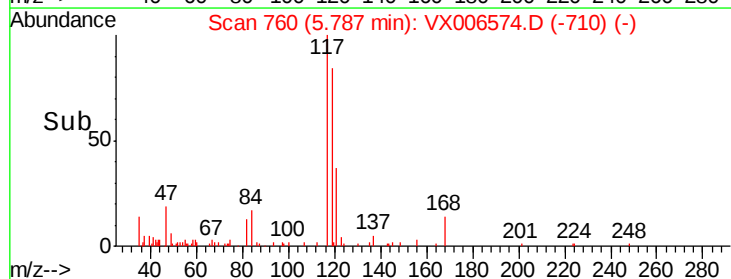
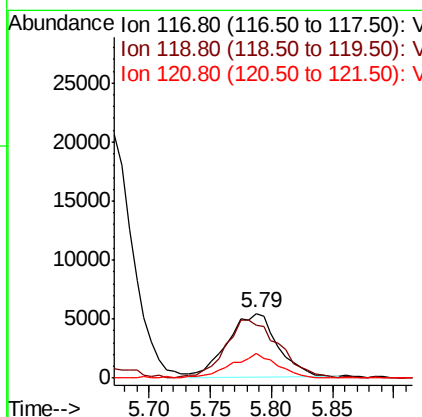
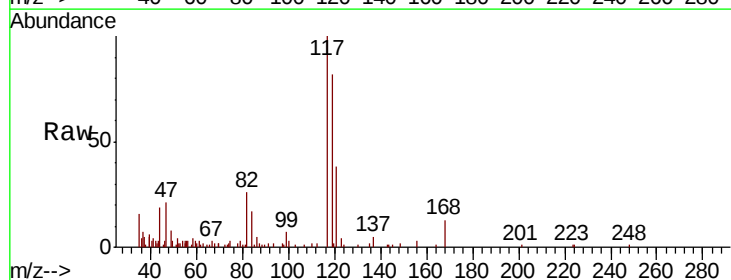
Instrument :
 MSVOA_X
 ClientSampled :

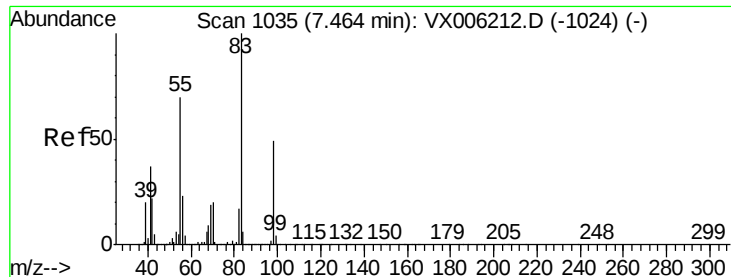
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	20.4	61.3#
77	0.8	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 1.454 ug/l
 RT: 5.79 min Scan# 760
 Delta R.T. 0.01 min
 Lab File: VX006574.D
 Acq: 17 Dec 2018 15:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	81.8	75.8	113.8
121	38.3	24.6	37.0#

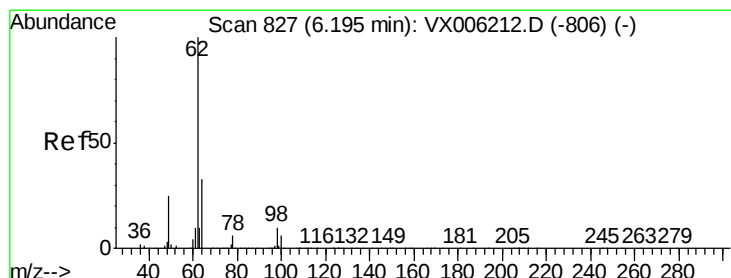
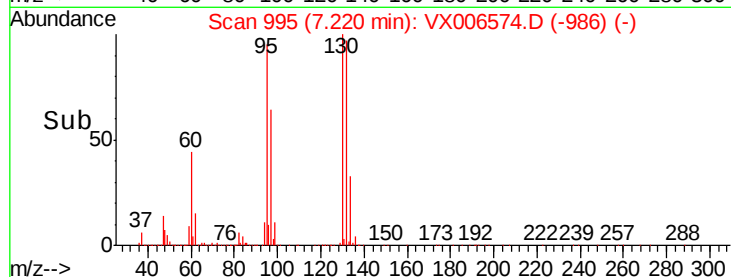
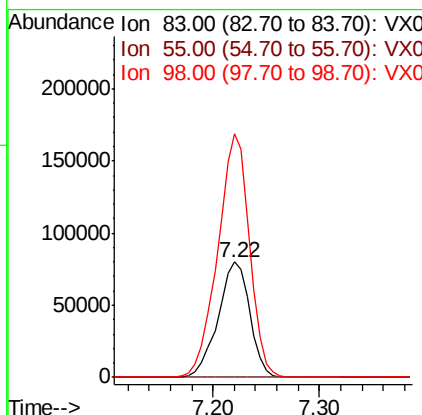
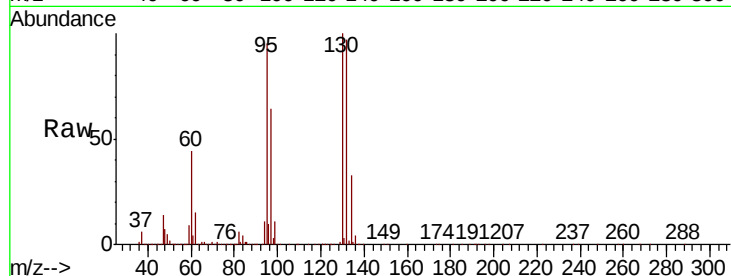




#39
Methylcyclohexane
Concen: 14.017 ug/l
RT: 7.22 min Scan# 995
Delta R.T. -0.24 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

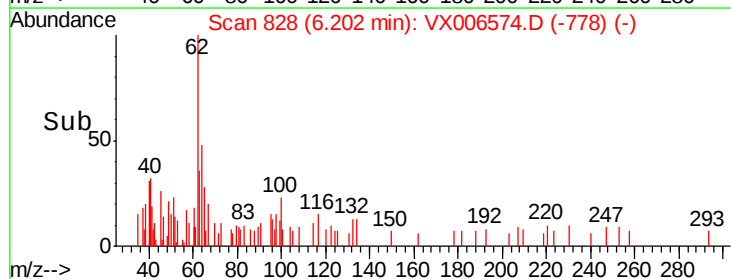
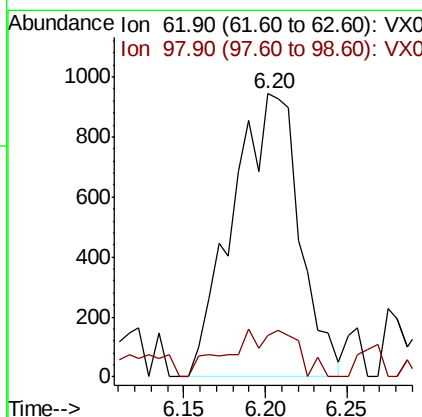
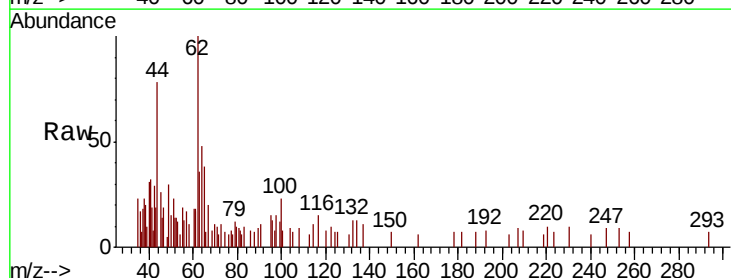
Instrument :
MSVOA_X
ClientSampled :

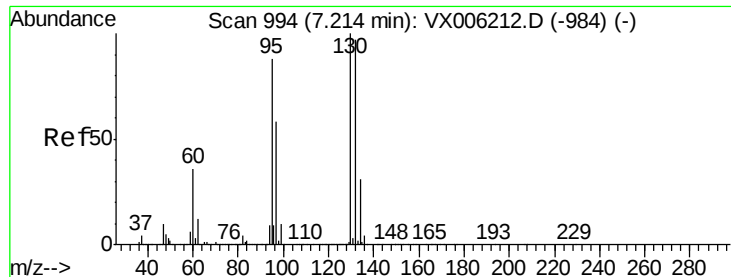
Tot Ion: 83 Resp: 164314
Ion Ratio Lower Upper
83 100
55 0.4 56.4 84.6#
98 211.3 39.0 58.6#



#42
1,2-Dichloroethane
Concen: 0.304 ug/l
RT: 6.20 min Scan# 828
Delta R.T. 0.01 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

Tgt Ion: 62 Resp: 2692
Ion Ratio Lower Upper
62 100
98 13.9 0.0 20.2





#44

Trichloroethene

Concen: 1698.212 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

Instrument :

MSVOA_X

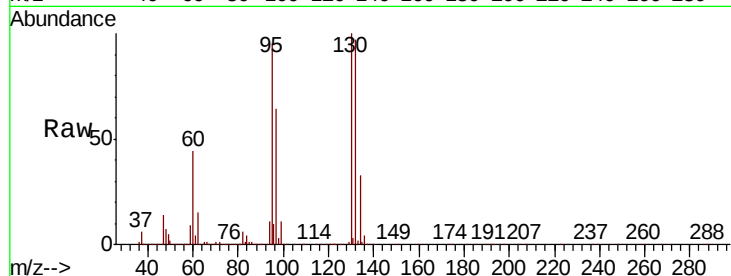
ClientSampleId :

Tot Ion:130 Resp:13915689

Ion Ratio Lower Upper

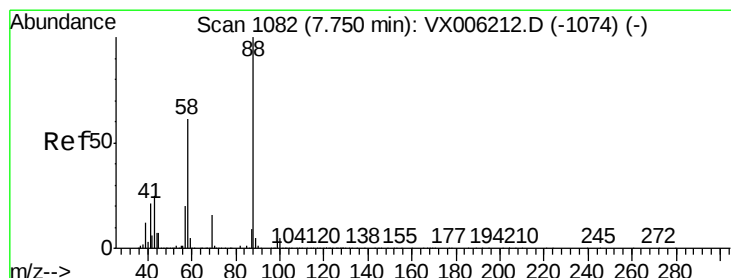
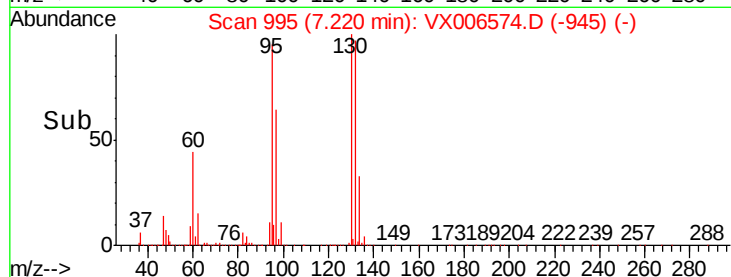
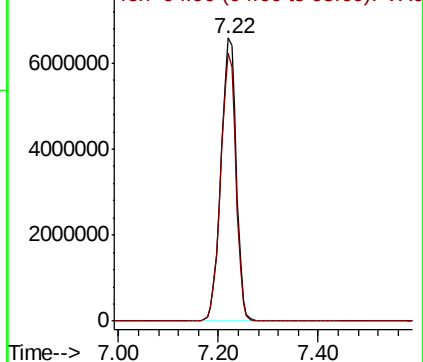
130 100

95 94.8 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 17.924 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

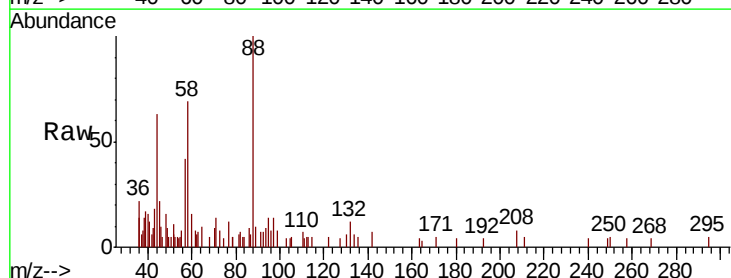
Tgt Ion: 88 Resp: 3624

Ion Ratio Lower Upper

88 100

43 11.1 23.2 34.8#

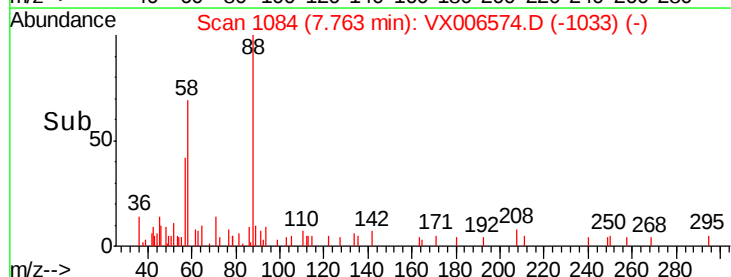
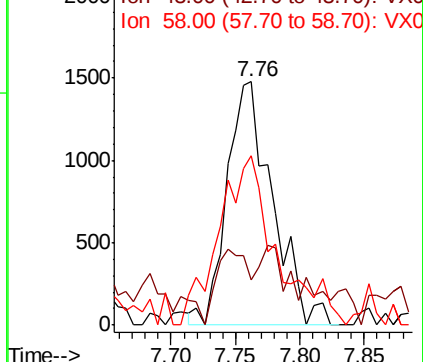
58 88.0 51.4 77.0#

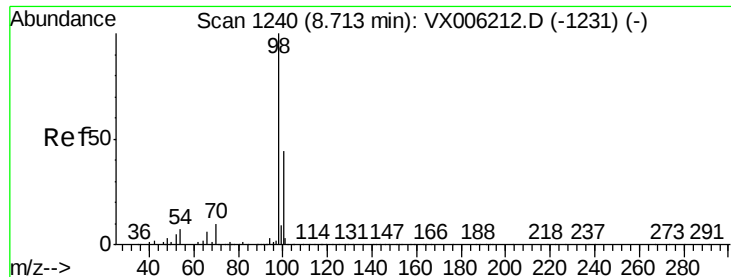


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.150 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

Instrument :

MSVOA_X

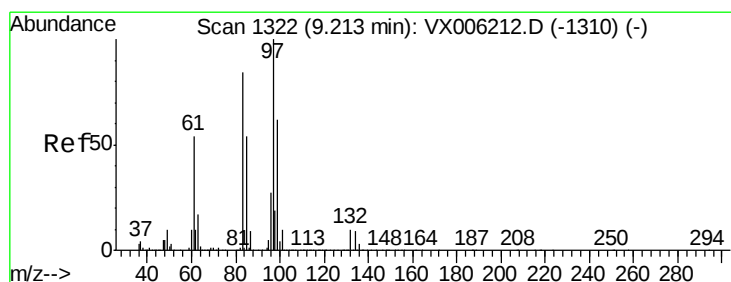
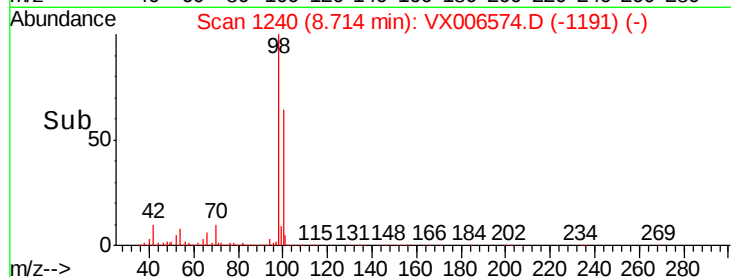
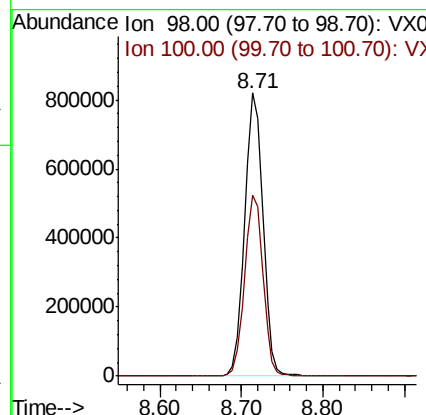
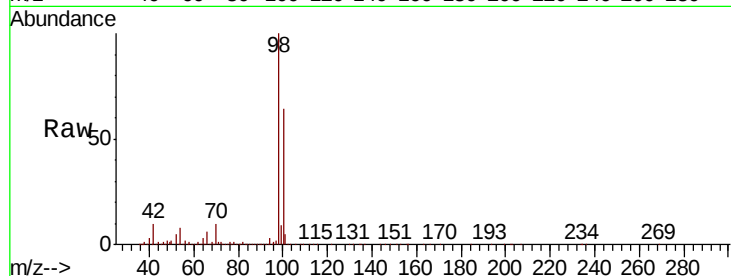
ClientSampleId :

Tot Ion: 98 Resp: 1266657

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.2



#55

1,1,2-Trichloroethane

Concen: 1.025 ug/l

RT: 9.22 min Scan# 1323

Delta R.T. 0.01 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

Tgt Ion: 97 Resp: 7407

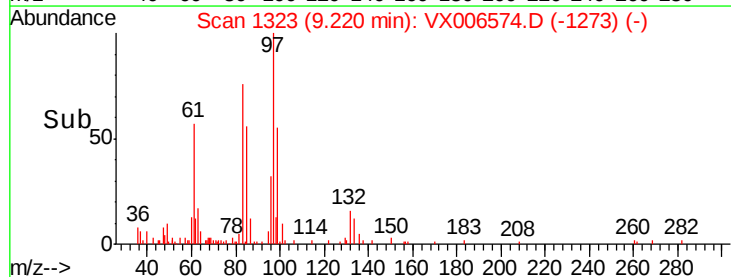
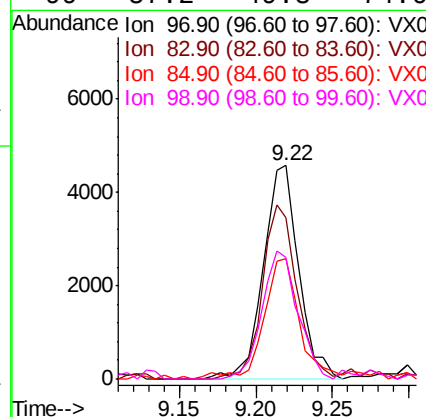
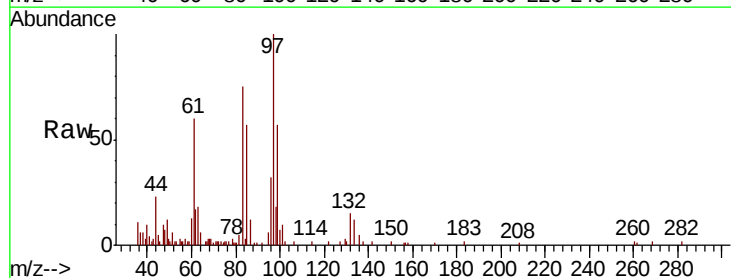
Ion Ratio Lower Upper

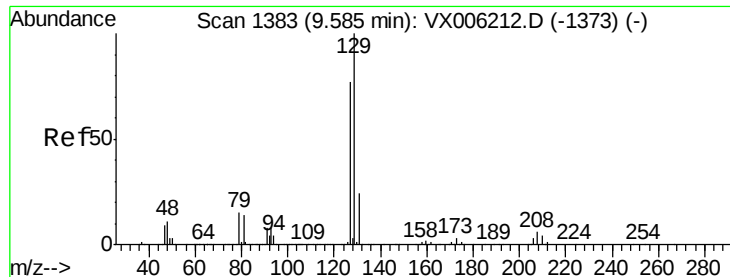
97 100

83 75.3 67.1 100.7

85 56.5 43.2 64.8

99 57.2 49.8 74.6





#60

Dibromochloromethane

Concen: 2.684 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

Instrument :

MSVOA_X

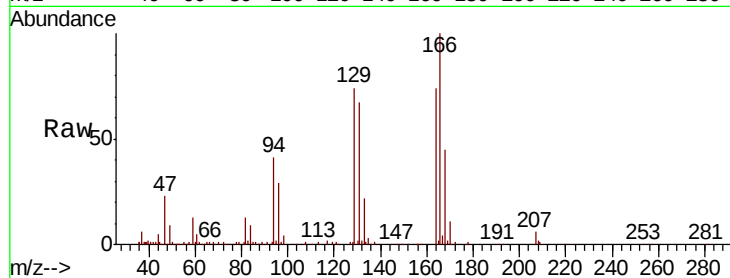
ClientSampleId :

Tot Ion:129 Resp: 23924

Ion Ratio Lower Upper

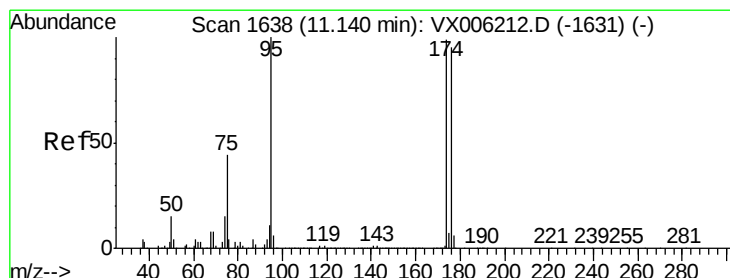
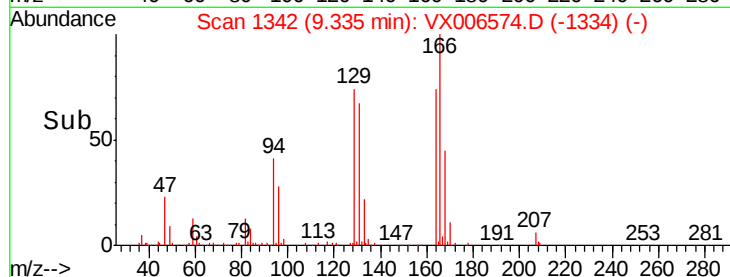
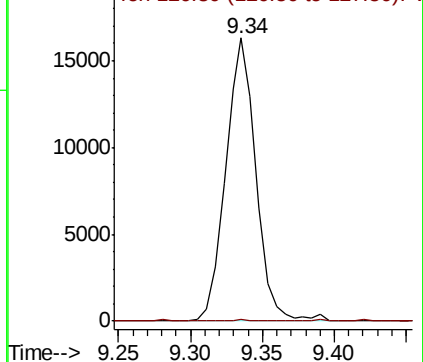
129 100

127 0.3 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.333 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006574.D

Acq: 17 Dec 2018 15:52

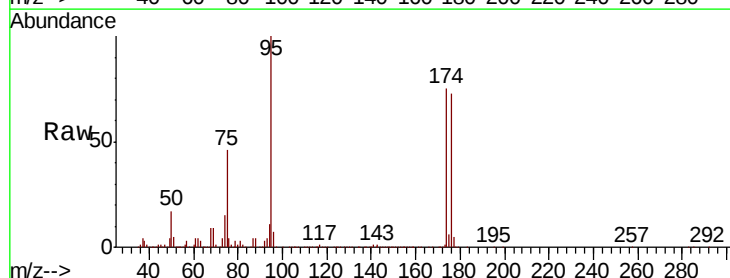
Tgt Ion: 95 Resp: 469531

Ion Ratio Lower Upper

95 100

174 84.1 0.0 187.0

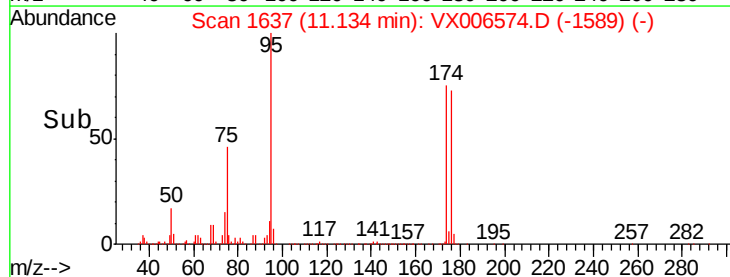
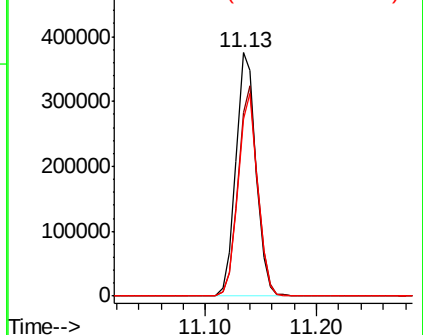
176 81.3 0.0 181.8

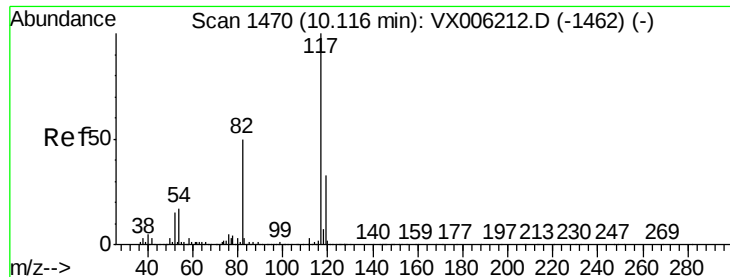


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

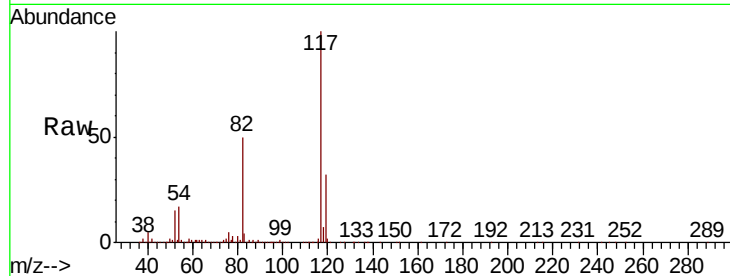




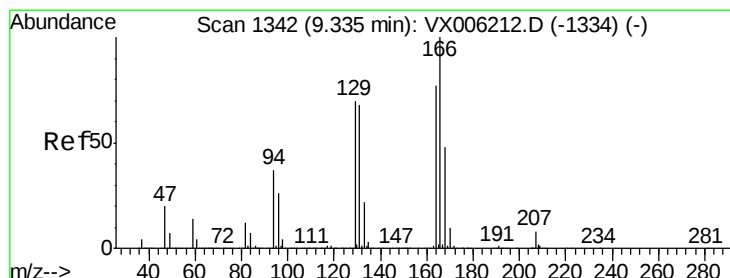
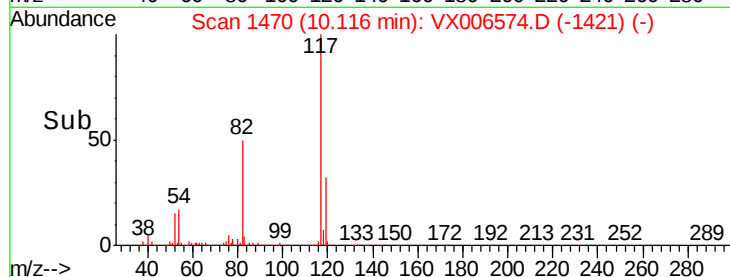
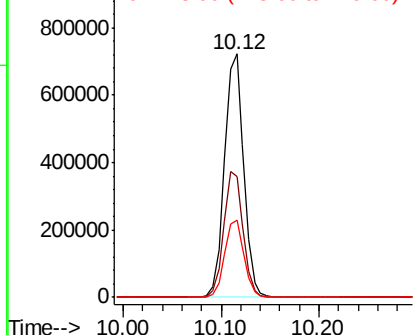
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 982194
Ion Ratio Lower Upper
117 100
82 49.6 39.6 59.4
119 31.9 26.3 39.5

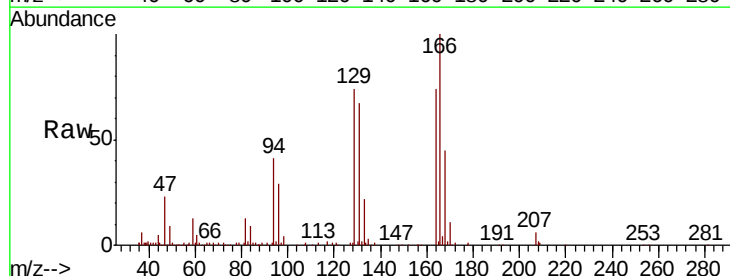


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

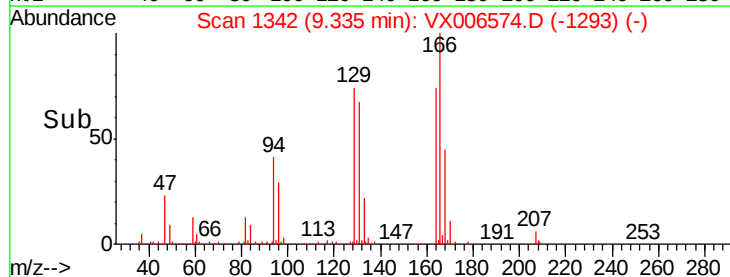
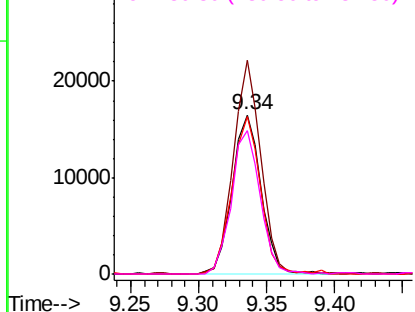


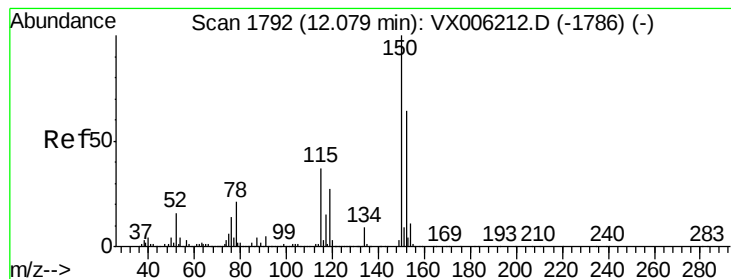
#64
Tetrachloroethene
Concen: 3.302 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

Tgt Ion:164 Resp: 24421
Ion Ratio Lower Upper
164 100
166 134.3 104.2 156.2
129 98.8 72.6 108.8
131 90.1 70.3 105.5



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



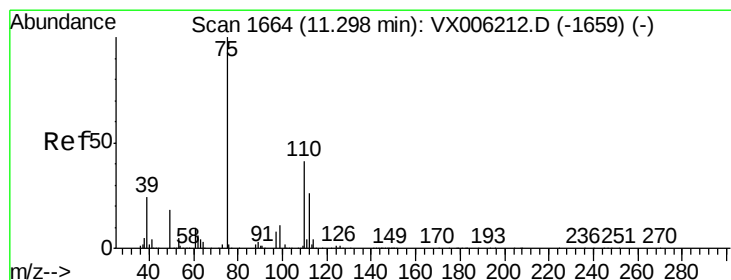
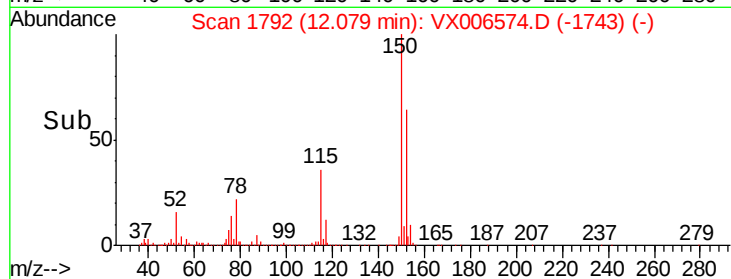
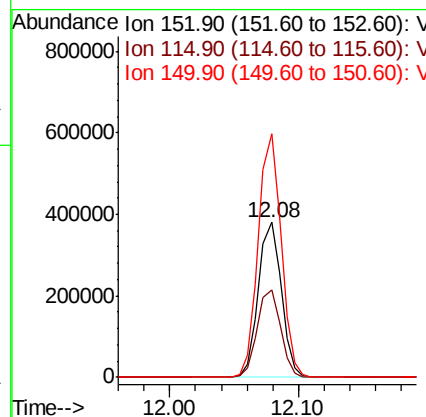
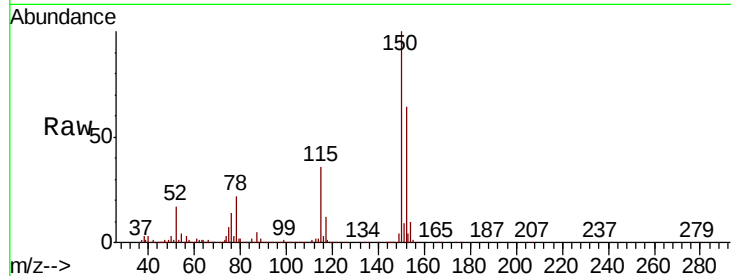


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

Instrument :
MSVOA_X
ClientSampleId :

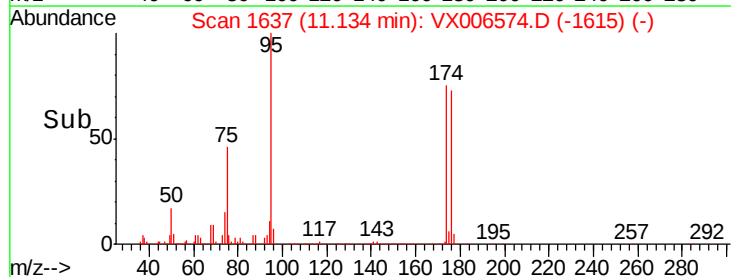
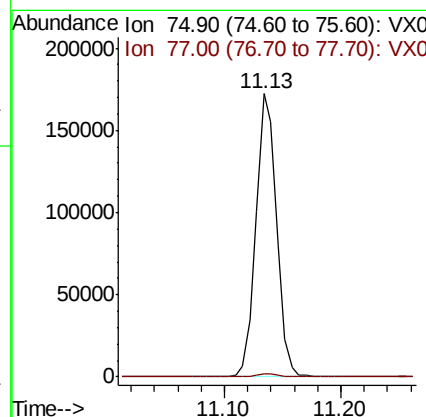
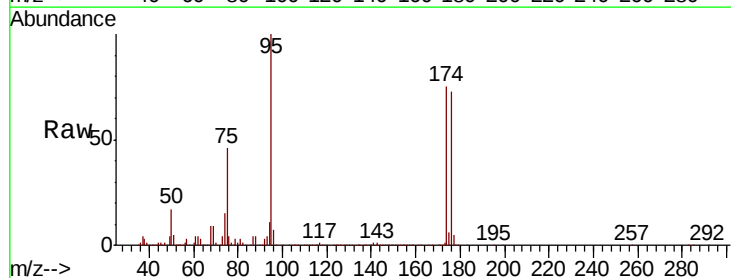
Tot Ion	Ratio	Lower	Upper
152	100		
115	57.5	39.0	116.9
150	157.1	0.0	345.8

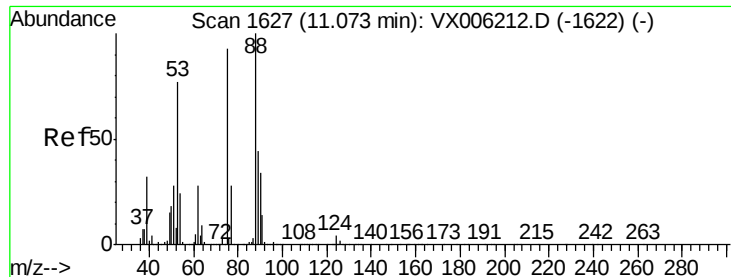


#76

1,2,3-Trichloropropane
Concen: 23.783 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006574.D
Acq: 17 Dec 2018 15:52

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	19.9	59.7#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.813 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006574.D
 Acq: 17 Dec 2018 15:52

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 213413
 Ion Ratio Lower Upper
 75 100
 53 0.1 64.4 96.6#
 89 0.0 44.2 66.4#

