

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121718\
 Data File : VX006573.D
 Acq On : 17 Dec 2018 15:25
 Operator : JC/MD
 Sample : J6405-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 18 00:39:57 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	688359	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1097072	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	1000023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	475620	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	384007	54.65	ug/l	0.00
Spiked Amount			Recovery	=	109.30%	
35) Dibromofluoromethane	5.50	113	336127	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
50) Toluene-d8	8.71	98	1285625	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	11.13	95	470294	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	

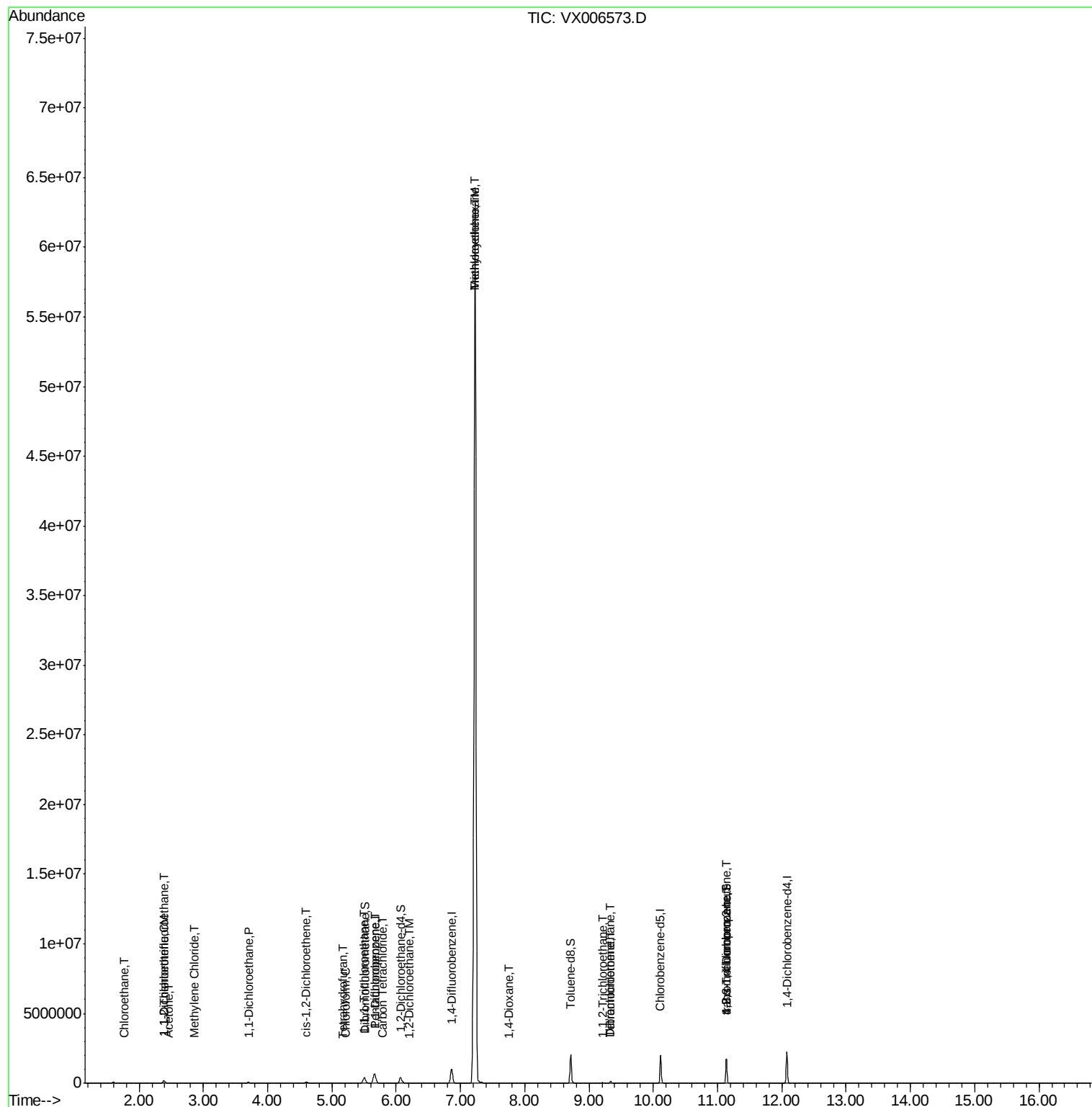
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.76	64	1023	0.224	ug/l #	64
9) 1,1,2-Trichlorotrifluoroet	2.39	101	38685	5.946	ug/l	99
12) 1,1-Dichloroethene	2.38	96	33439	5.369	ug/l	96
16) Acetone	2.45	43	2012	0.610	ug/l	90
20) Methylene Chloride	2.86	84	1756	0.250	ug/l #	70
24) 1,1-Dichloroethane	3.70	63	38376	3.494	ug/l	100
27) cis-1,2-Dichloroethene	4.60	96	55403	7.483	ug/l	89
29) Tetrahydrofuran	5.17	42	4757	1.455	ug/l #	86
30) Chloroform	5.21	83	28954	2.508	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	6052	0.551	ug/l #	41
36) 1,1-Dichloropropene	5.67	75	46447	5.028	ug/l #	48
38) Carbon Tetrachloride	5.79	117	11842	1.090	ug/l #	84
39) Methylcyclohexane	7.23	83	312729	26.078	ug/l #	1
42) 1,2-Dichloroethane	6.21	62	3267	0.361	ug/l	87
44) Trichloroethene	7.22	130	21784686	2598.846	ug/l	87
49) 1,4-Dioxane	7.76	88	2775	13.417	ug/l #	88
55) 1,1,2-Trichloroethane	9.21	97	9607	1.299	ug/l #	86
60) Dibromochloromethane	9.34	129	24563	2.694	ug/l #	11
64) Tetrachloroethene	9.34	164	26493	3.518	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	220488	24.018	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	220488	56.363	ug/l #	15

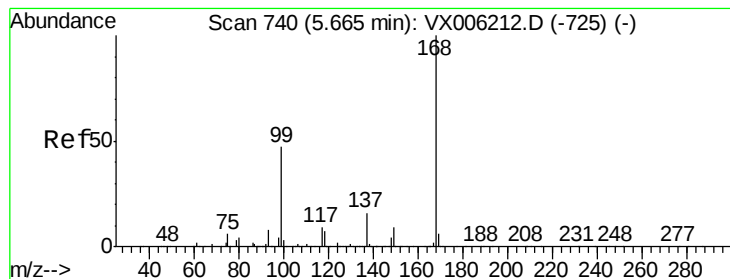
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

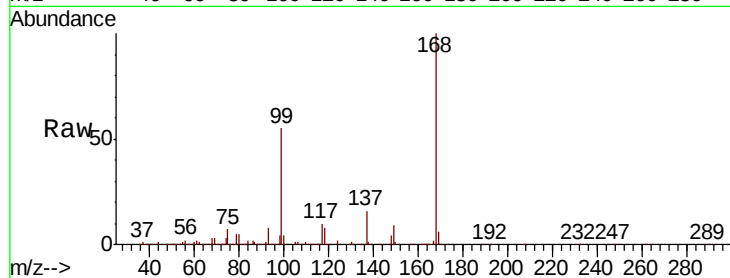
ClientSampleId :

Tot Ion:168 Resp: 688359

Ion Ratio Lower Upper

168 100

99 54.8 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

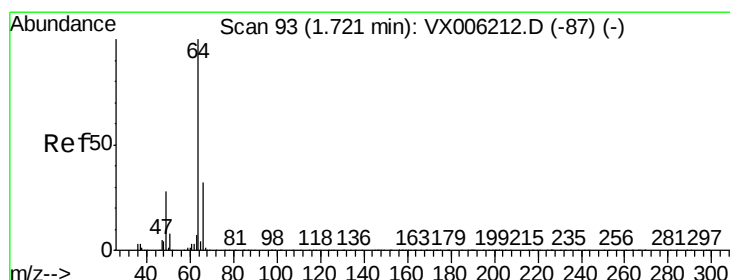
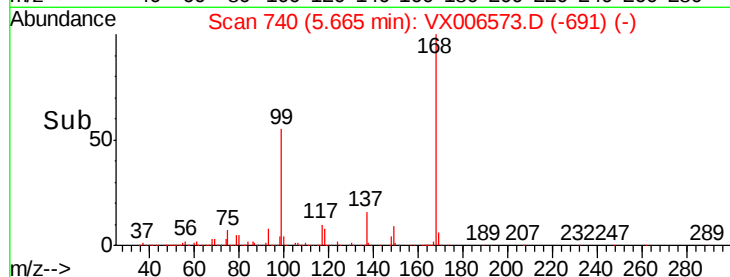
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.224 ug/l

RT: 1.76 min Scan# 99

Delta R.T. 0.04 min

Lab File: VX006573.D

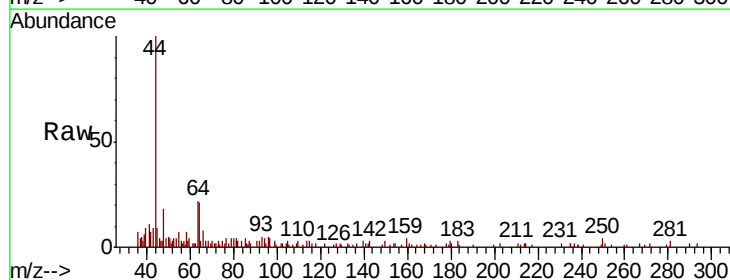
Acq: 17 Dec 2018 15:25

Tgt Ion: 64 Resp: 1023

Ion Ratio Lower Upper

64 100

66 12.2 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.76

2000

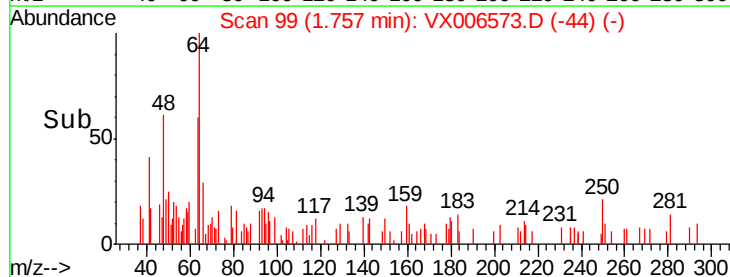
1500

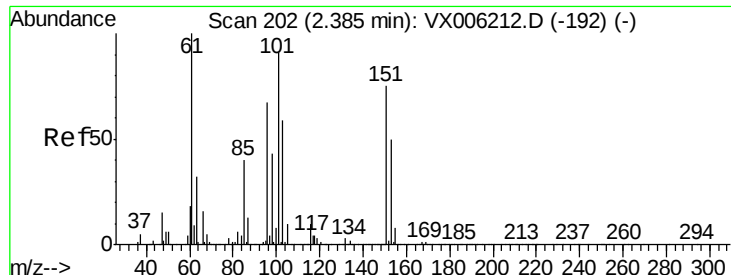
1000

500

0

Time--> 1.72 1.74 1.76 1.78





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.946 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

ClientSampleId :

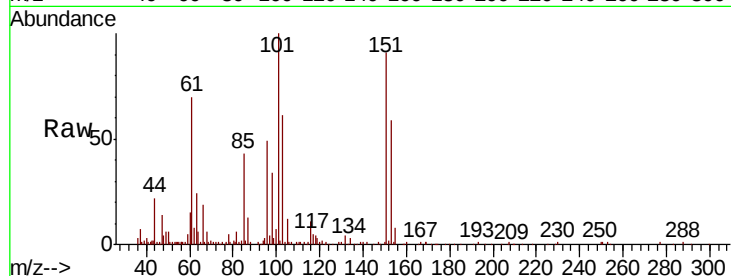
Tot Ion:101 Resp: 38685

Ion Ratio Lower Upper

101 100

85 45.3 35.5 53.3

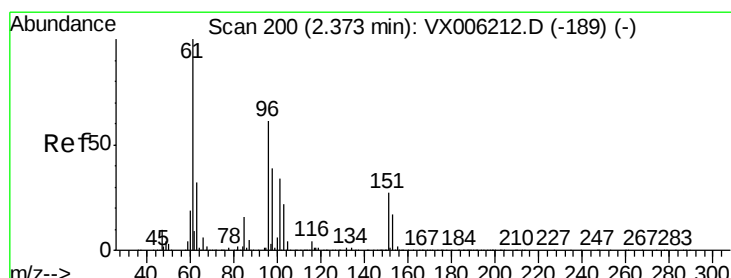
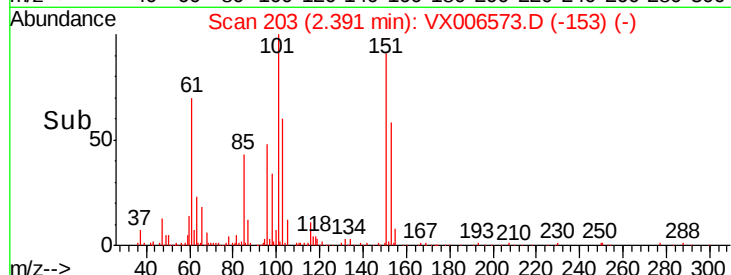
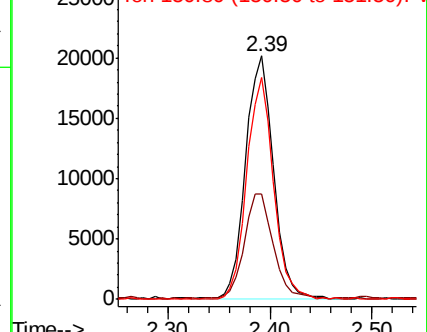
151 86.7 68.6 103.0



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



#12

1,1-Dichloroethene

Concen: 5.369 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

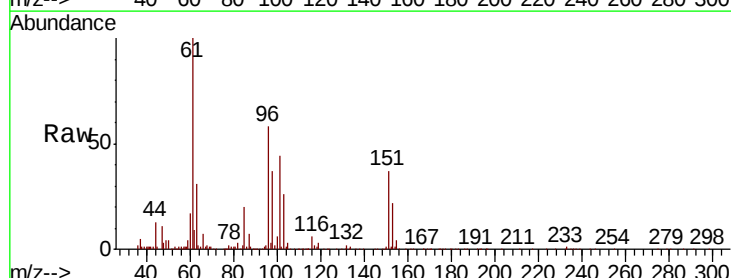
Tgt Ion: 96 Resp: 33439

Ion Ratio Lower Upper

96 100

61 170.5 131.7 197.5

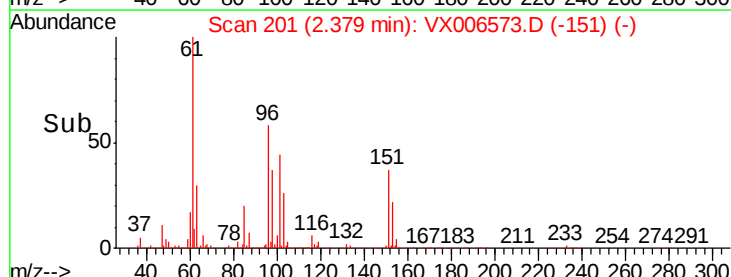
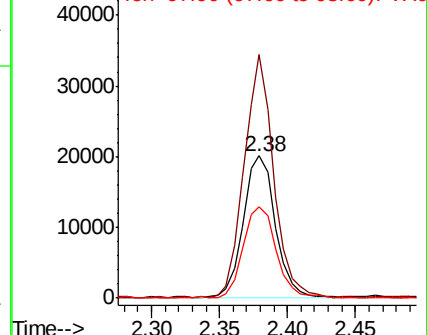
98 63.4 51.8 77.6

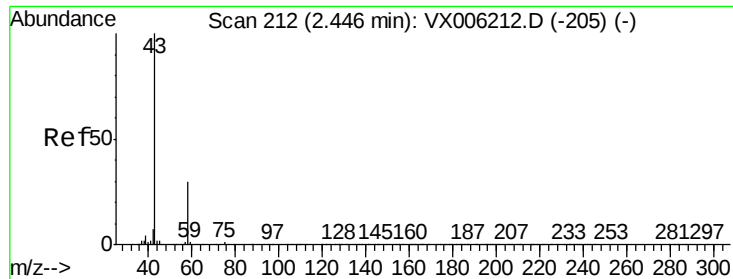


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

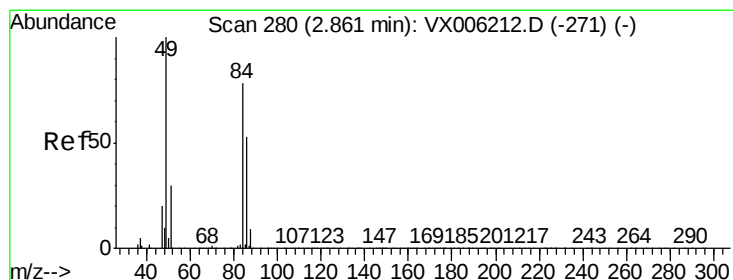
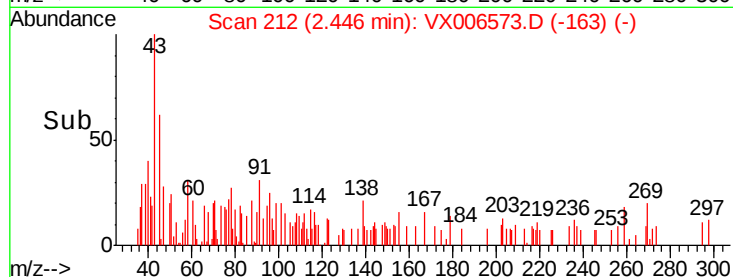
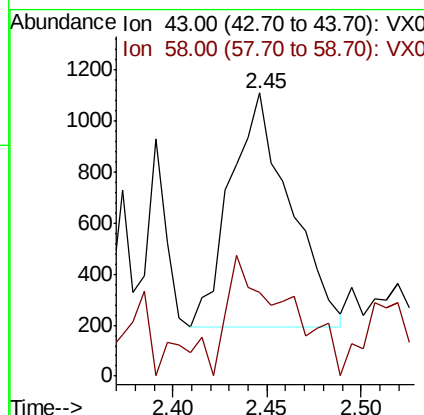
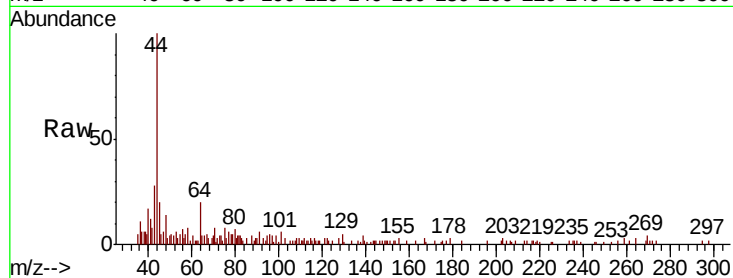




#16
Acetone
Concen: 0.610 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

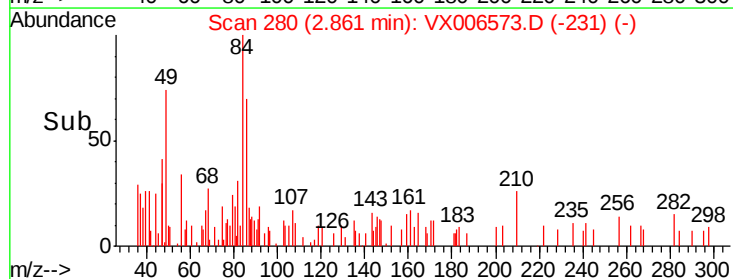
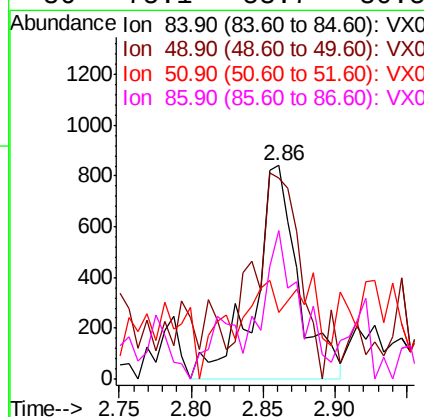
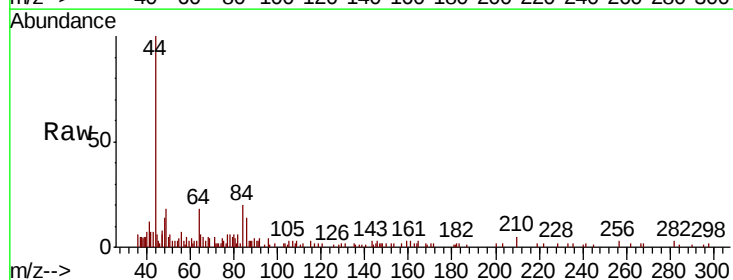
Instrument :
MSVOA_X
ClientSampleId :

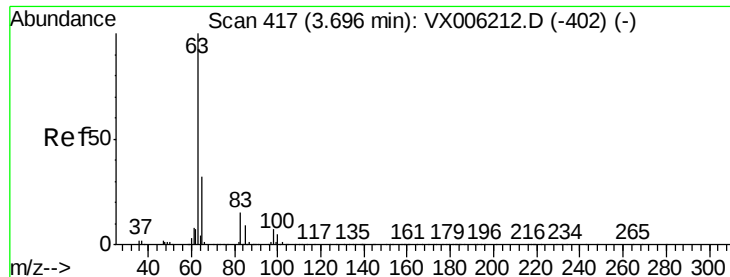
Tot Ion: 43 Resp: 2012
Ion Ratio Lower Upper
43 100
58 35.7 24.0 36.0



#20
Methylene Chloride
Concen: 0.250 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

Tgt Ion: 84 Resp: 1756
Ion Ratio Lower Upper
84 100
49 93.4 102.2 153.4#
51 0.0 31.1 46.7#
86 75.1 53.7 80.5





#24

1,1-Dichloroethane

Concen: 3.494 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

ClientSampleId :

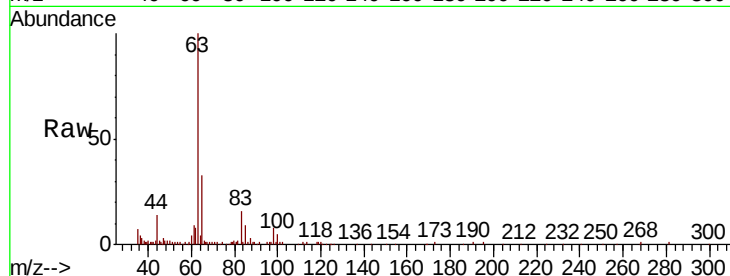
Tot Ion: 63 Resp: 38376

Ion Ratio Lower Upper

63 100

98 7.5 3.8 11.4

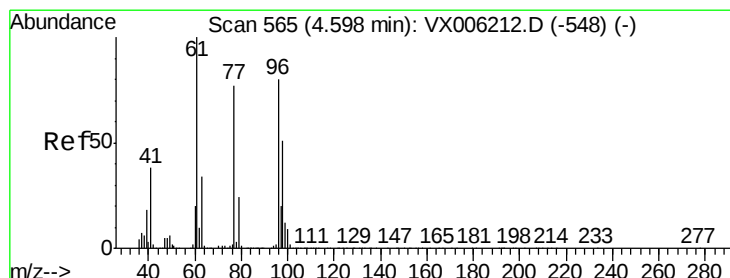
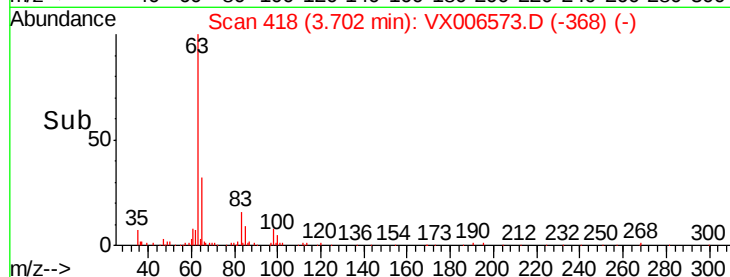
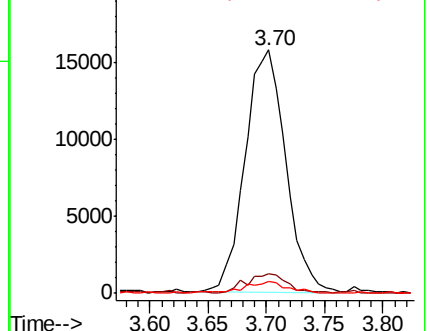
100 4.7 2.5 7.4



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 7.483 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

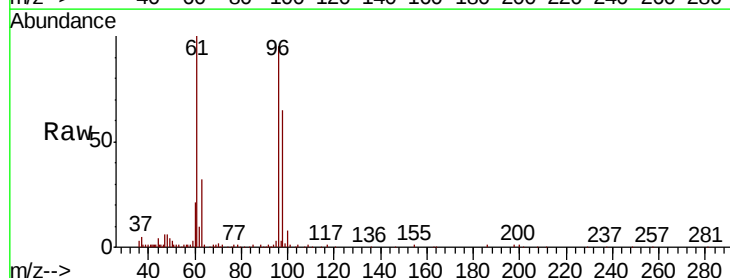
Tgt Ion: 96 Resp: 55403

Ion Ratio Lower Upper

96 100

61 112.8 0.0 265.0

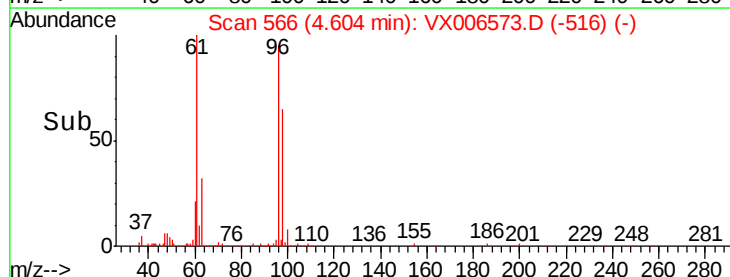
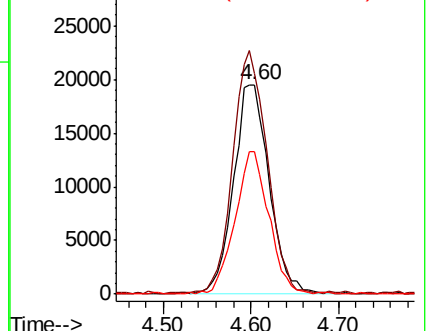
98 64.7 0.0 130.2

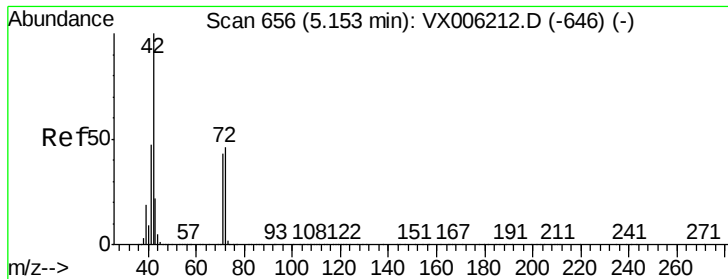


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

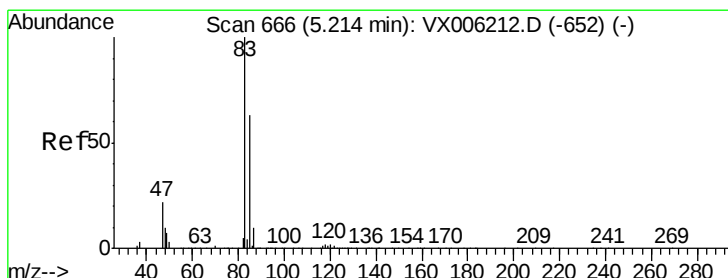
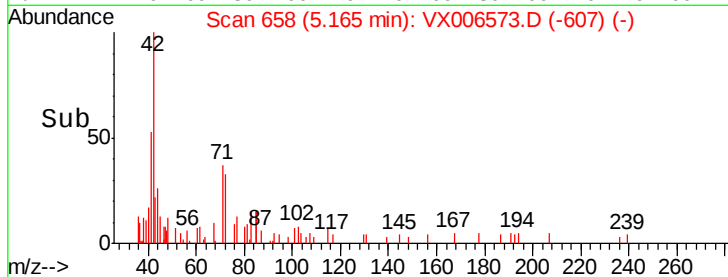
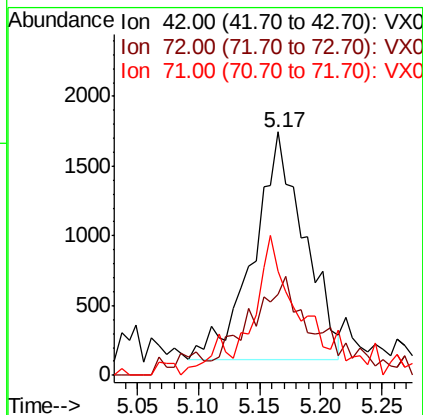
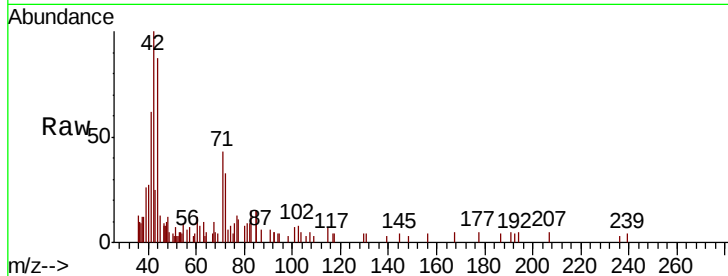




#29
Tetrahydrofuran
Concen: 1.455 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

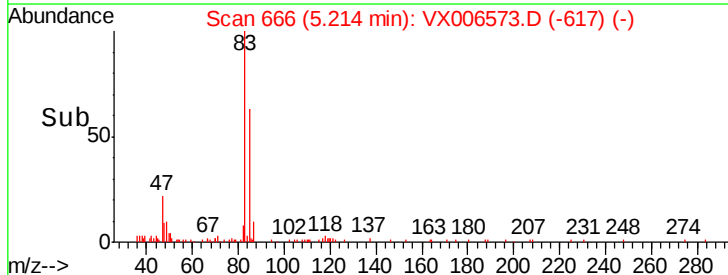
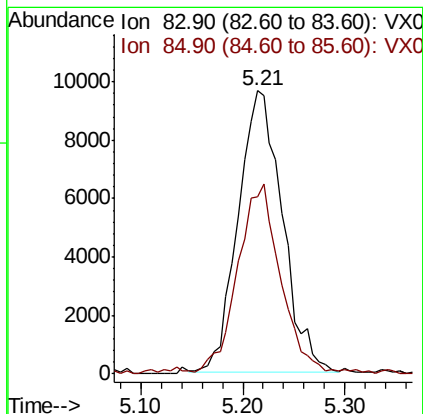
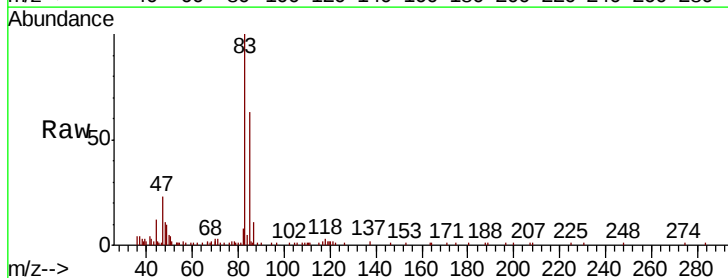
Instrument :
MSVOA_X
ClientSampleId :

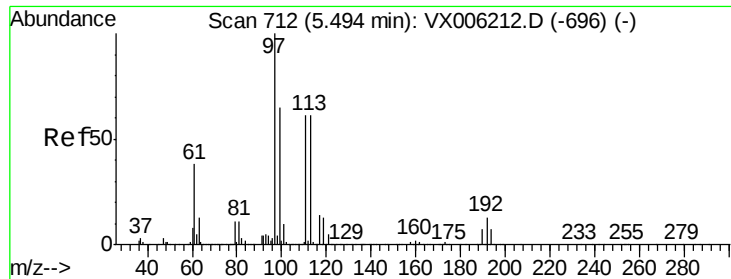
Tot Ion: 42 Resp: 4757
Ion Ratio Lower Upper
42 100
72 57.6 37.8 56.8#
71 36.1 35.2 52.8



#30
Chloroform
Concen: 2.508 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

Tgt Ion: 83 Resp: 28954
Ion Ratio Lower Upper
83 100
85 62.0 50.3 75.5





#32

1,1,1-Trichloroethane

Concen: 0.551 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

ClientSampleId :

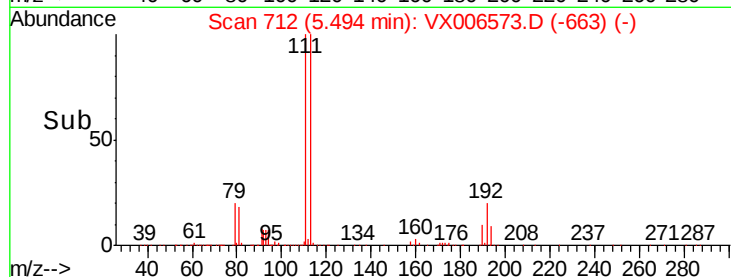
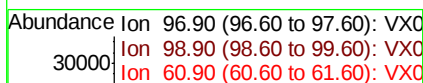
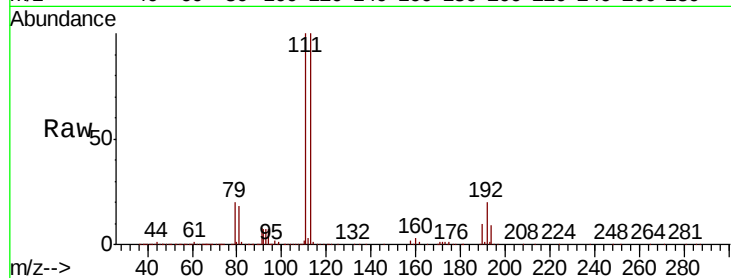
Tot Ion: 97 Resp: 6052

Ion Ratio Lower Upper

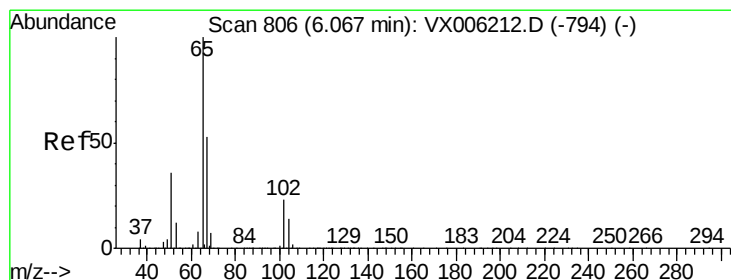
97 100

99 0.0 51.6 77.4#

61 50.3 30.6 46.0#



Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.647 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006573.D

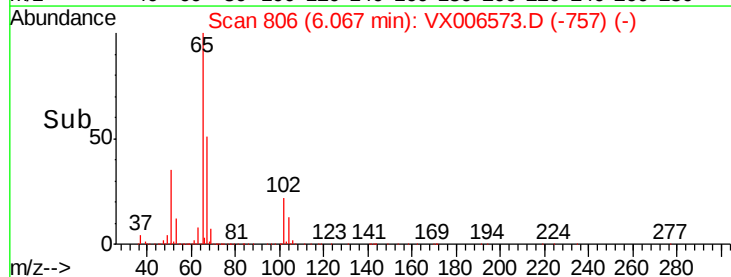
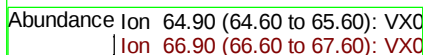
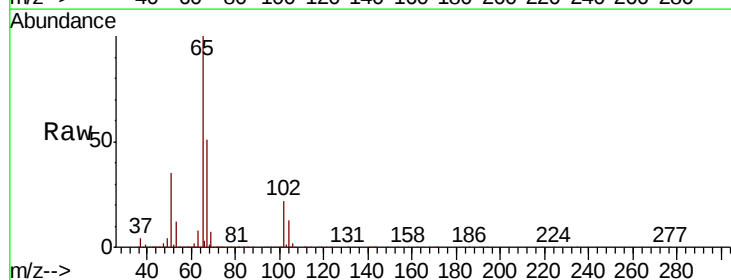
Acq: 17 Dec 2018 15:25

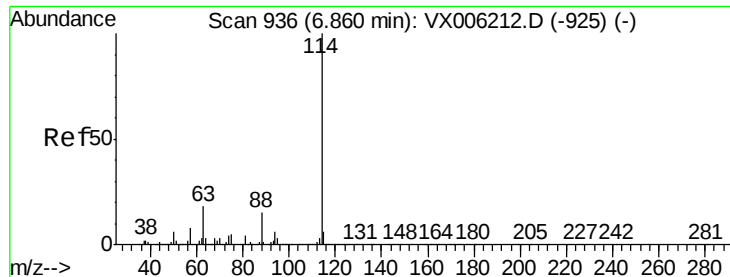
Tgt Ion: 65 Resp: 384007

Ion Ratio Lower Upper

65 100

67 52.2 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

ClientSampleId :

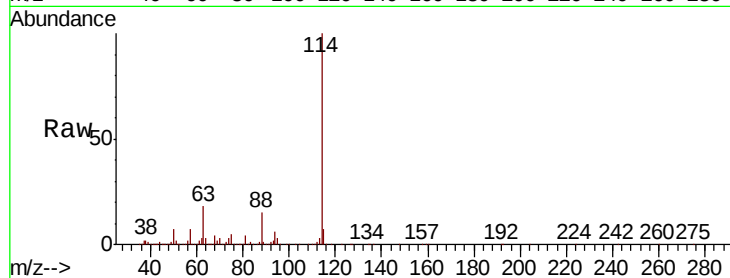
Tot Ion:114 Resp: 1097072

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.6

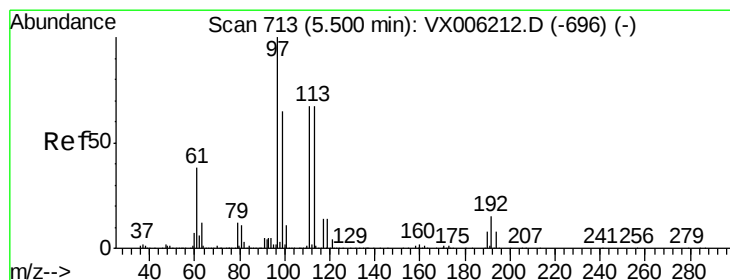
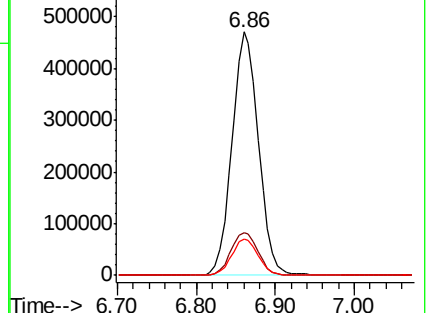
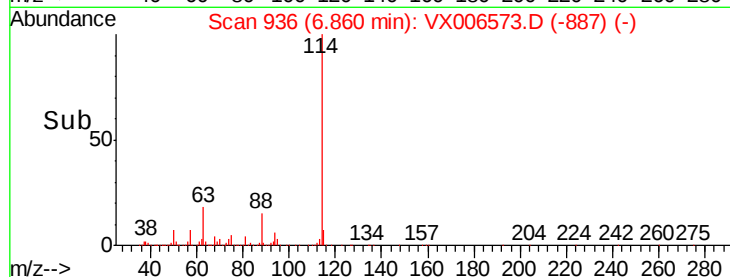
88 15.1 0.0 29.0



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: 47.321 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

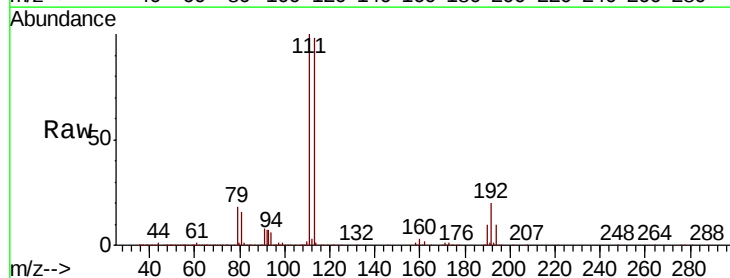
Tgt Ion:113 Resp: 336127

Ion Ratio Lower Upper

113 100

111 101.7 81.1 121.7

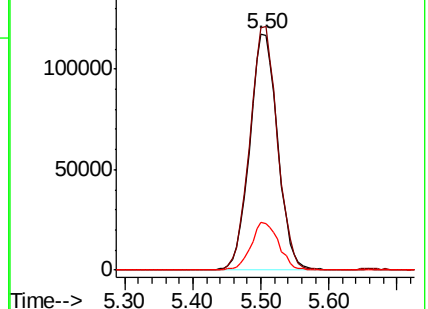
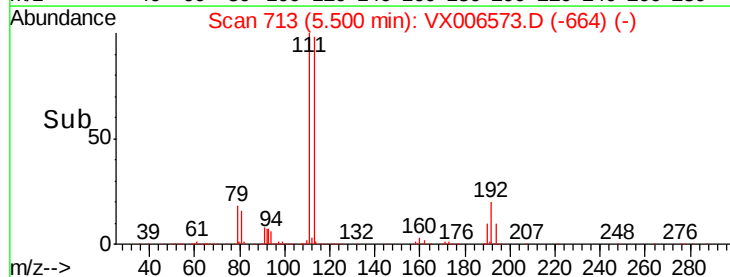
192 20.2 18.2 27.2

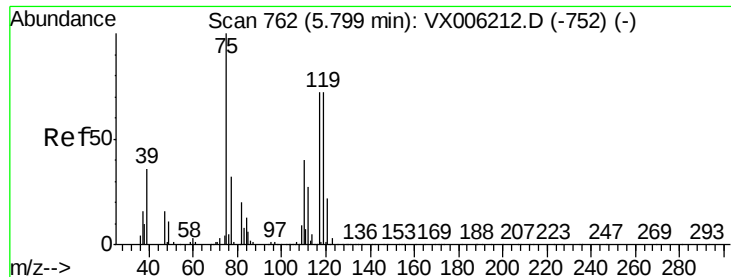


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

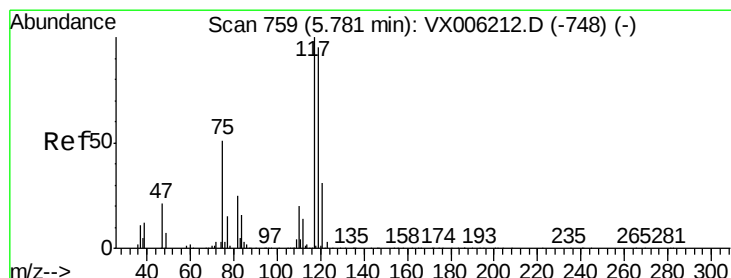
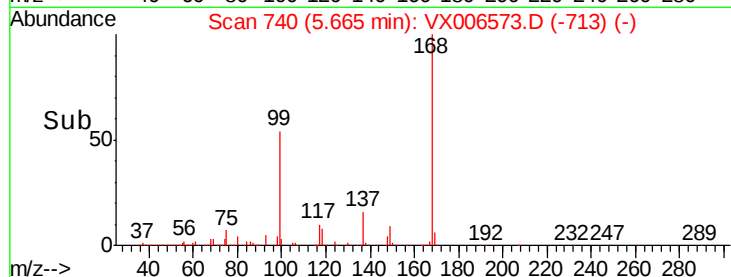
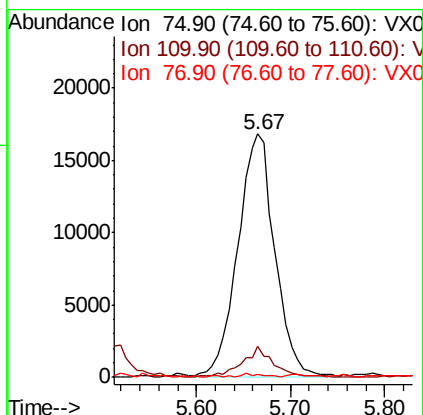
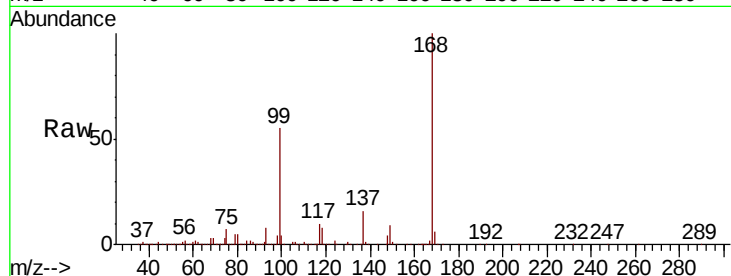




#36
 1,1-Dichloropropene
 Concen: 5.028 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006573.D
 Acq: 17 Dec 2018 15:25

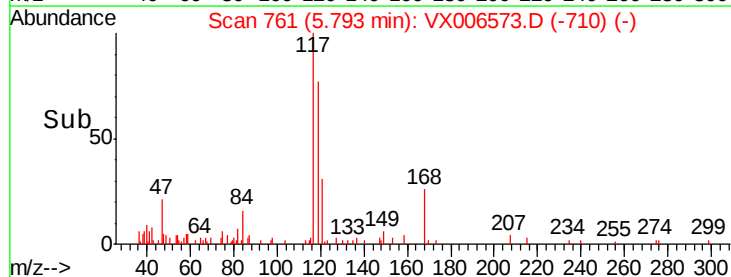
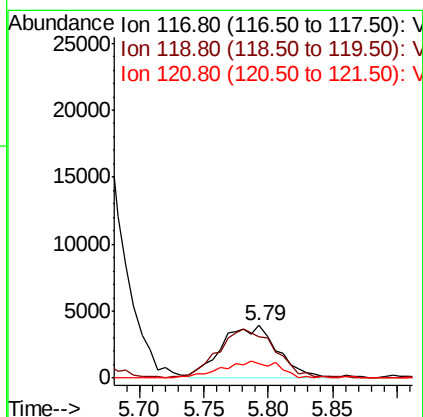
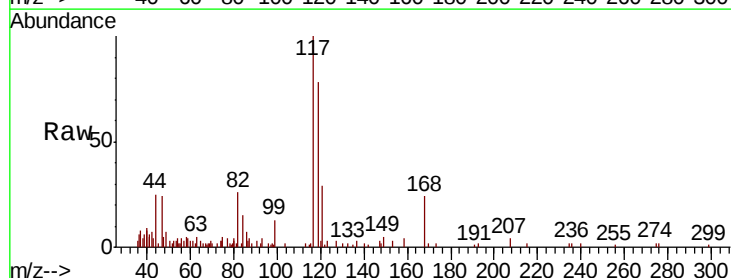
Instrument :
 MSVOA_X
 ClientSampleId :

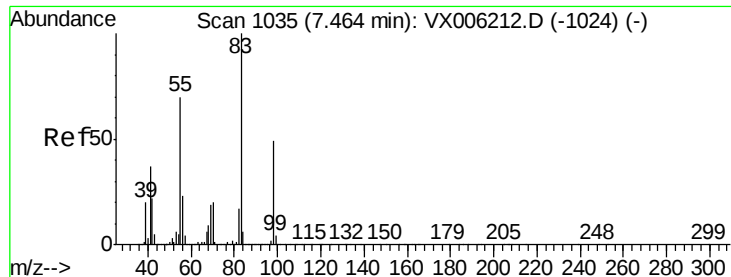
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	20.4	61.3#
77	0.6	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 1.090 ug/l
 RT: 5.79 min Scan# 761
 Delta R.T. 0.01 min
 Lab File: VX006573.D
 Acq: 17 Dec 2018 15:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	75.0	75.8	113.8#
121	28.7	24.6	37.0





#39

Methylcyclohexane

Concen: 26.078 ug/l

RT: 7.23 min Scan# 996

Delta R.T. -0.24 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

ClientSampled :

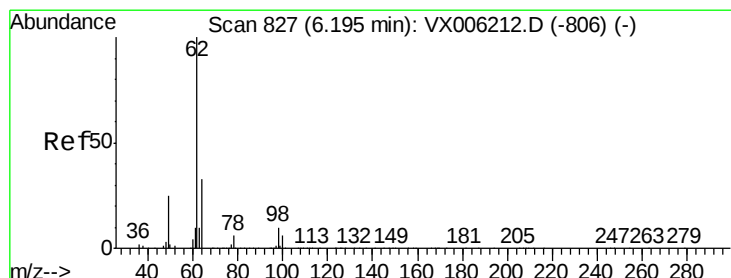
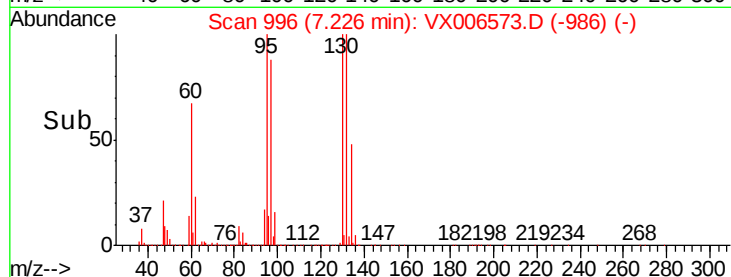
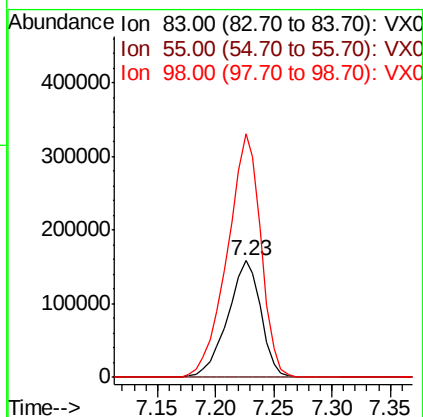
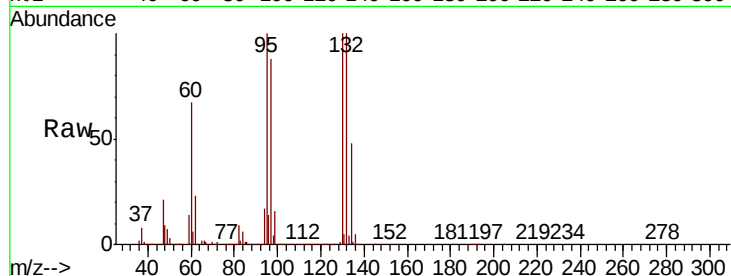
Tot Ion: 83 Resp: 312729

Ion Ratio Lower Upper

83 100

55 0.2 56.4 84.6#

98 208.4 39.0 58.6#



#42

1,2-Dichloroethane

Concen: 0.361 ug/l

RT: 6.21 min Scan# 829

Delta R.T. 0.01 min

Lab File: VX006573.D

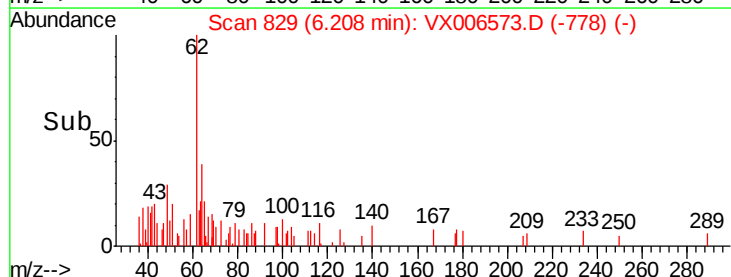
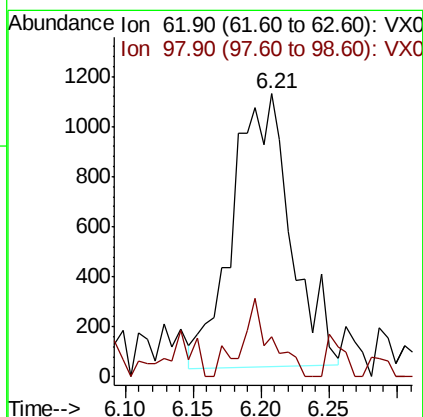
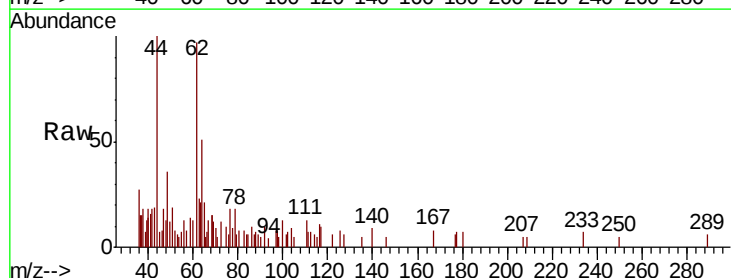
Acq: 17 Dec 2018 15:25

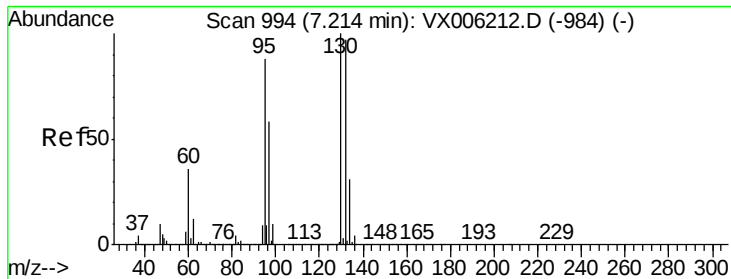
Tgt Ion: 62 Resp: 3267

Ion Ratio Lower Upper

62 100

98 14.9 0.0 20.2





#44

Trichloroethene

Concen: 2598.846 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

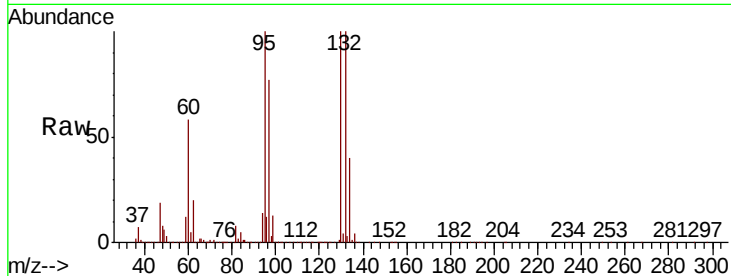
ClientSampleId :

Tot Ion:130 Resp:21784686

Ion Ratio Lower Upper

130 100

95 100.0 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

8000000

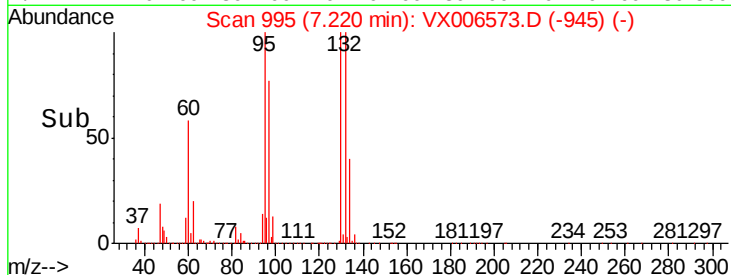
6000000

4000000

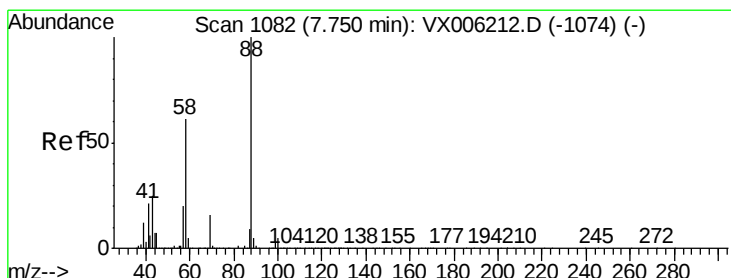
2000000

0

7.00 7.20 7.40



Time-->



#49

1,4-Dioxane

Concen: 13.417 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

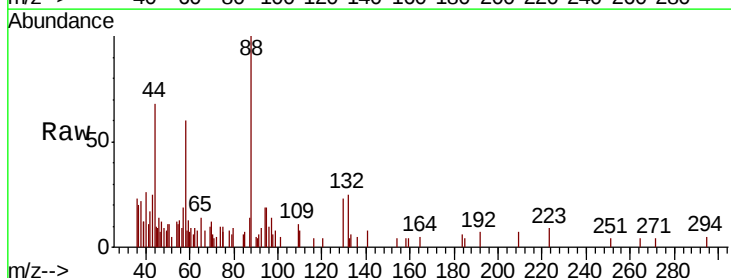
Tgt Ion: 88 Resp: 2775

Ion Ratio Lower Upper

88 100

43 41.9 23.2 34.8#

58 69.6 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

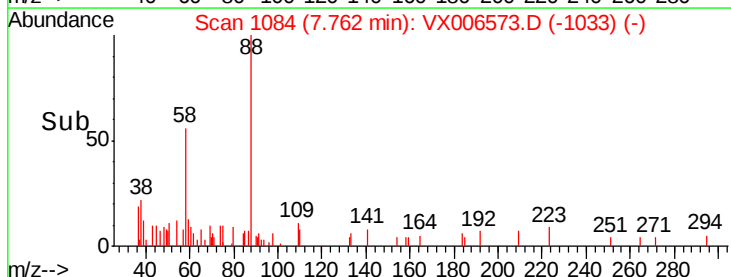
1500

1000

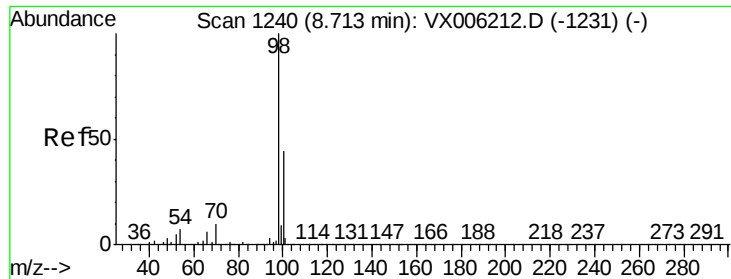
500

0

7.70 7.75 7.80 7.85



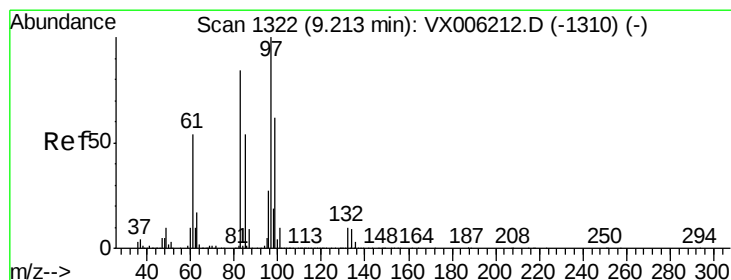
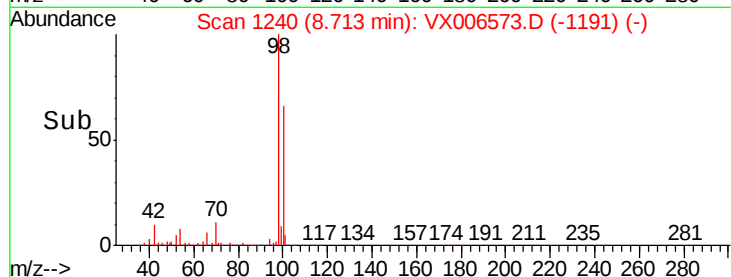
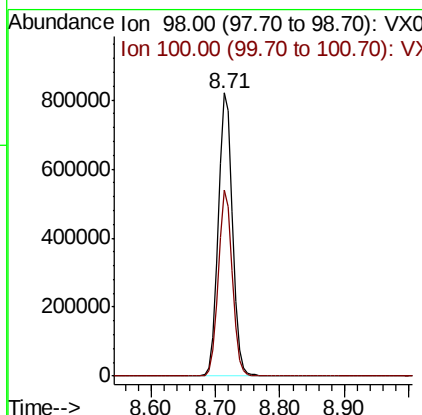
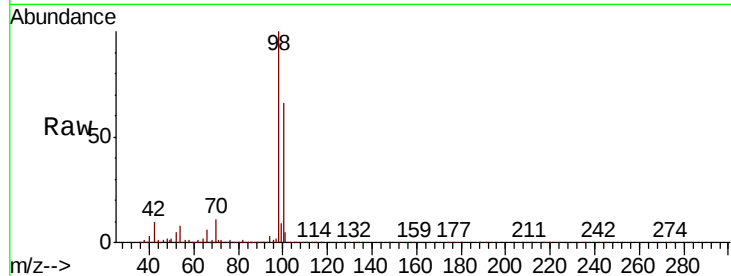
Time-->



#50
Toluene-d8
Concen: 49.759 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

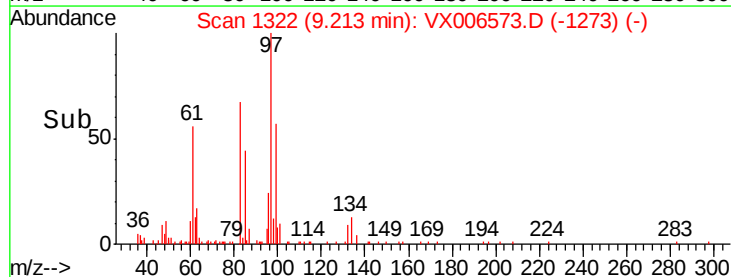
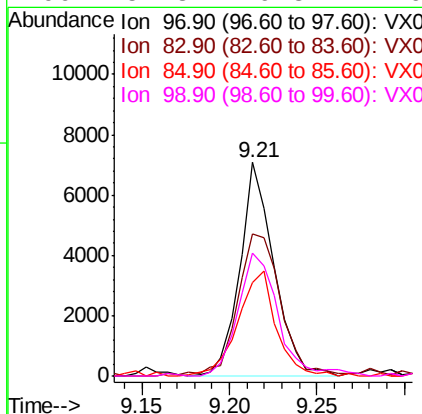
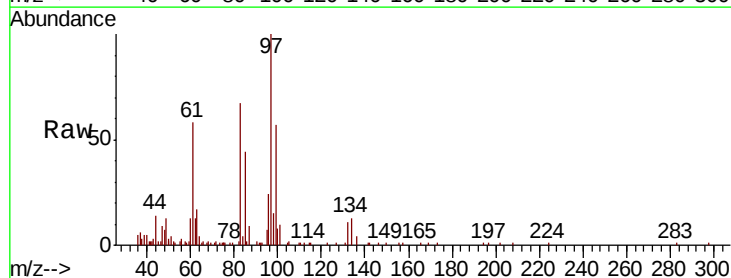
Instrument :
MSVOA_X
ClientSampleId :

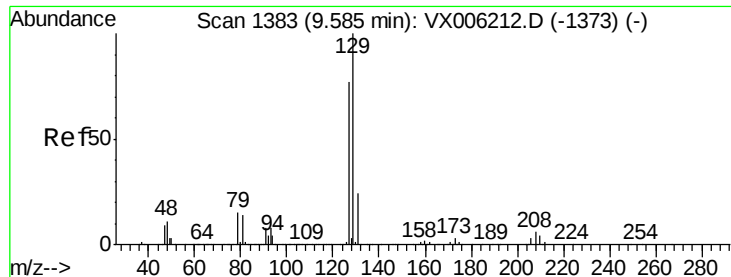
Tot Ion: 98 Resp: 1285625
Ion Ratio Lower Upper
98 100
100 64.7 52.2 78.2



#55
1,1,2-Trichloroethane
Concen: 1.299 ug/l
RT: 9.21 min Scan# 1322
Delta R.T. 0.00 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

Tgt Ion: 97 Resp: 9607
Ion Ratio Lower Upper
97 100
83 65.8 67.1 100.7#
85 43.8 43.2 64.8
99 57.3 49.8 74.6





#60

Dibromochloromethane

Concen: 2.694 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

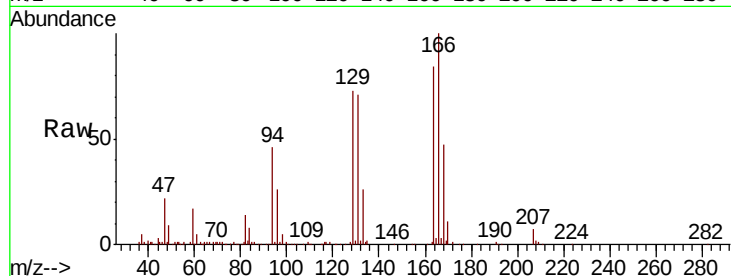
ClientSampled :

Tot Ion:129 Resp: 24563

Ion Ratio Lower Upper

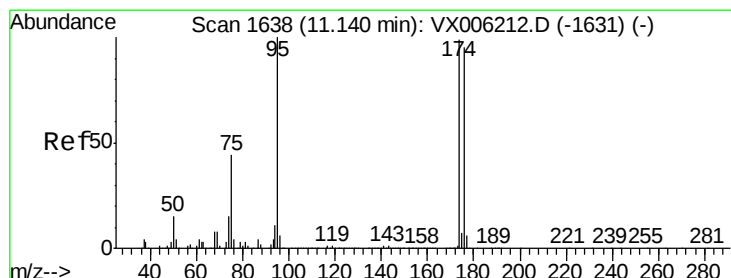
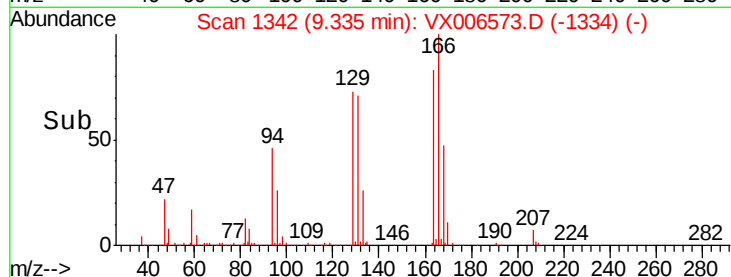
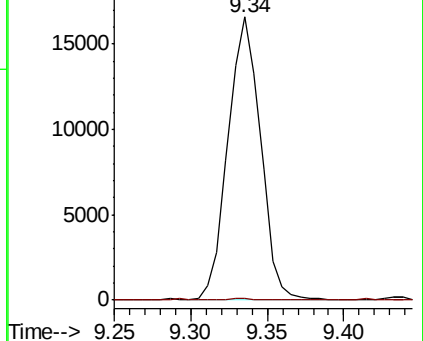
129 100

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: 48.304 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

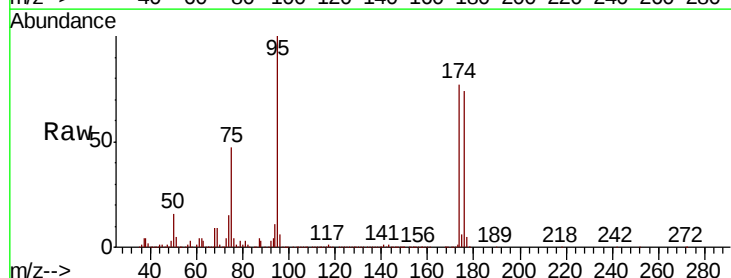
Tgt Ion: 95 Resp: 470294

Ion Ratio Lower Upper

95 100

174 85.3 0.0 187.0

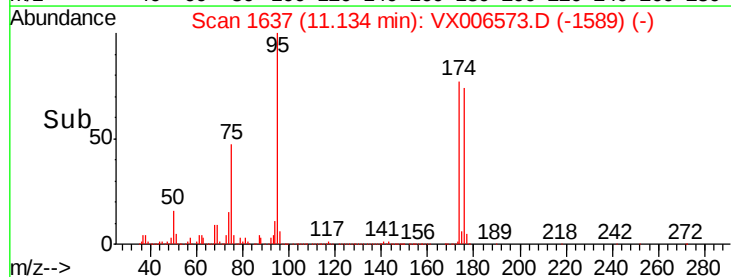
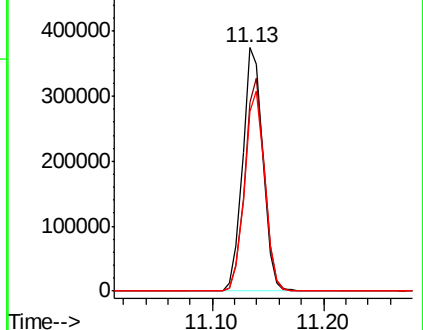
176 81.8 0.0 181.8

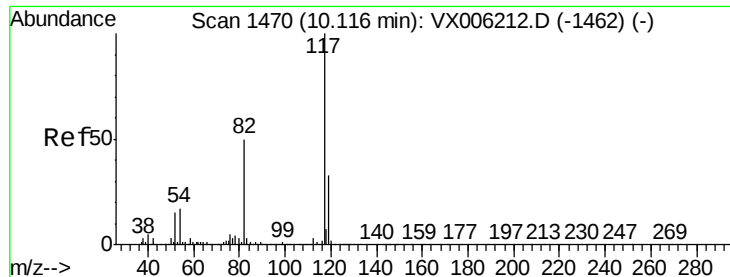


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

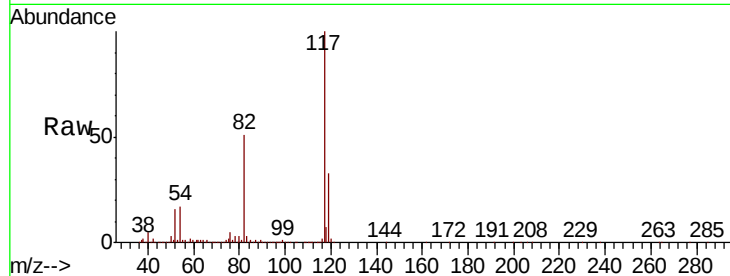




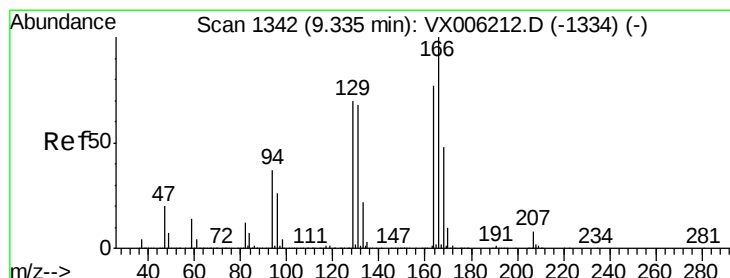
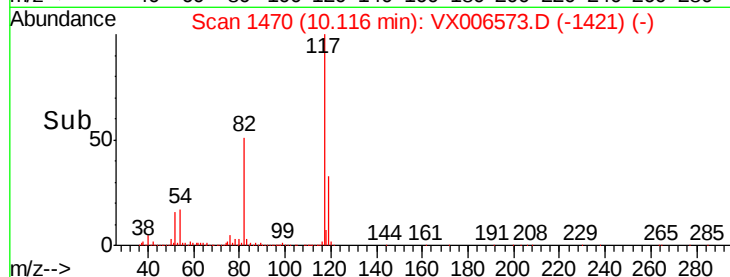
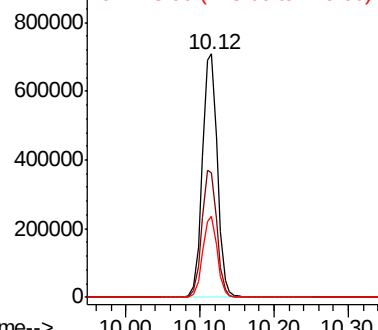
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 1000023
Ion Ratio Lower Upper
117 100
82 51.1 39.6 59.4
119 33.1 26.3 39.5

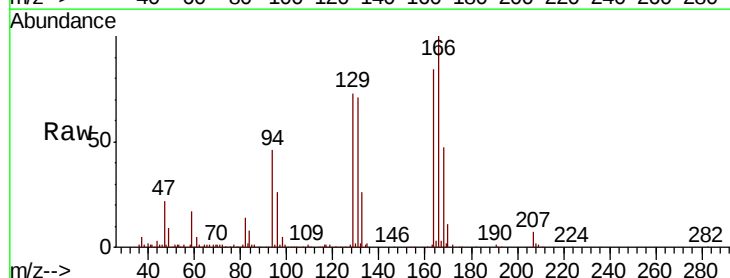


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

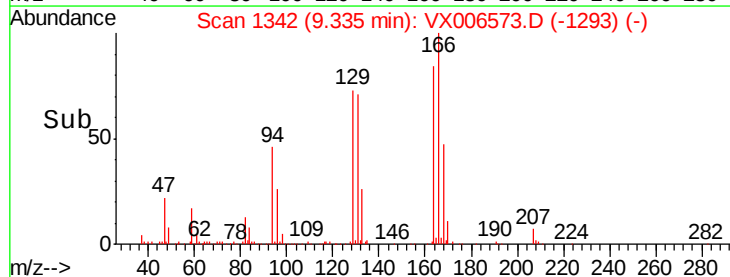
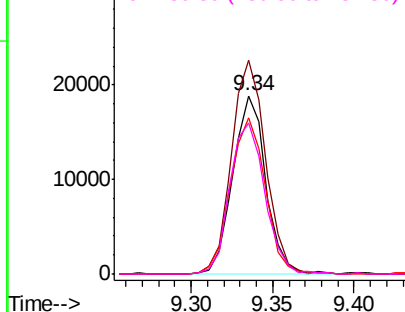


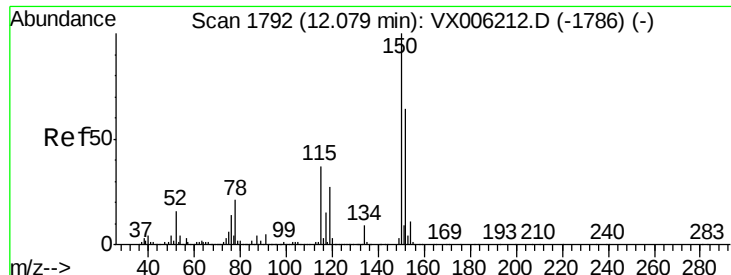
#64
Tetrachloroethene
Concen: 3.518 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

Tgt Ion:164 Resp: 26493
Ion Ratio Lower Upper
164 100
166 119.6 104.2 156.2
129 87.8 72.6 108.8
131 84.9 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



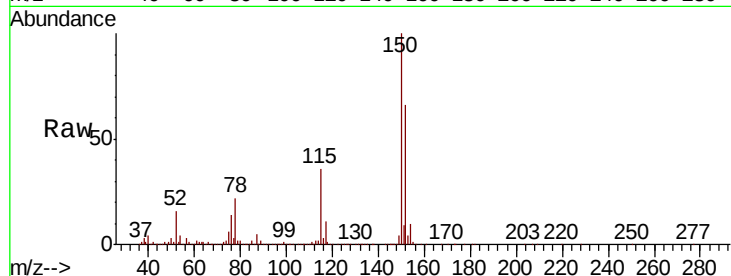


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.5	39.0	116.9
150	154.5	0.0	345.8

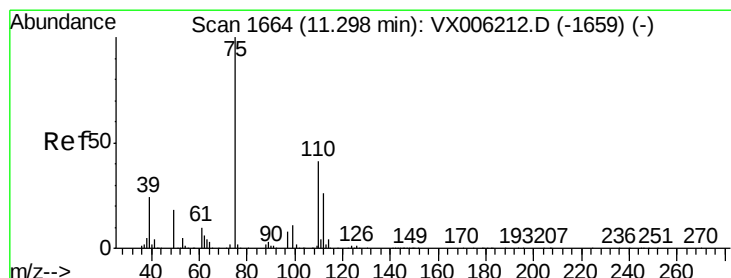
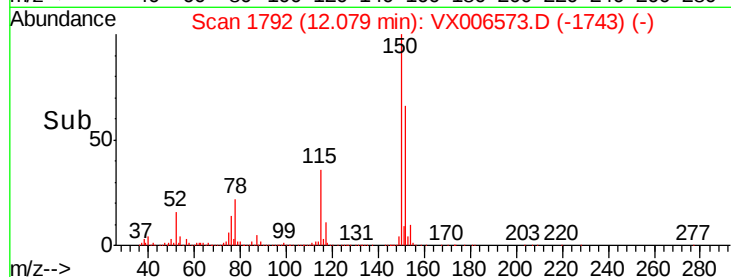
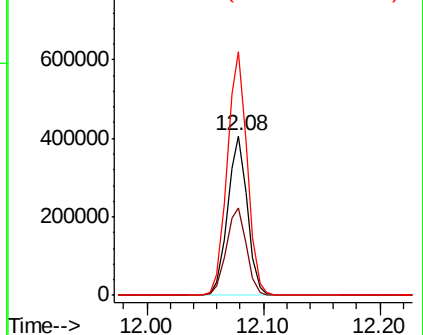


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

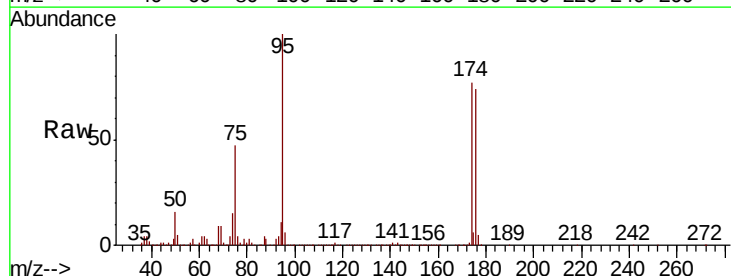
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane
Concen: 24.018 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006573.D
Acq: 17 Dec 2018 15:25

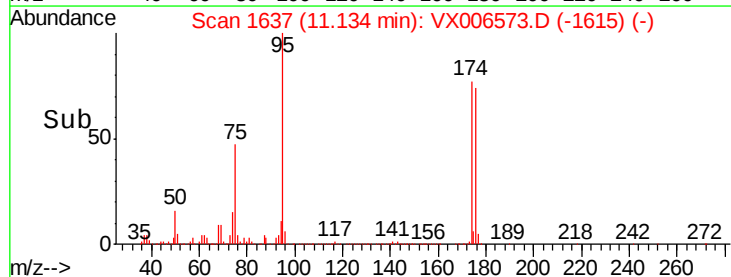
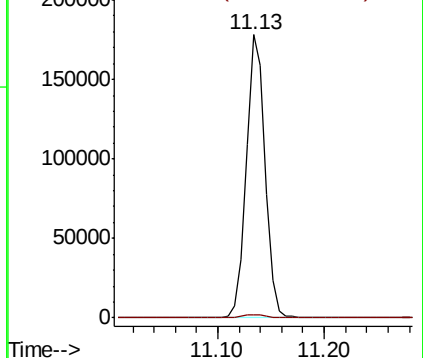
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	19.9	59.7

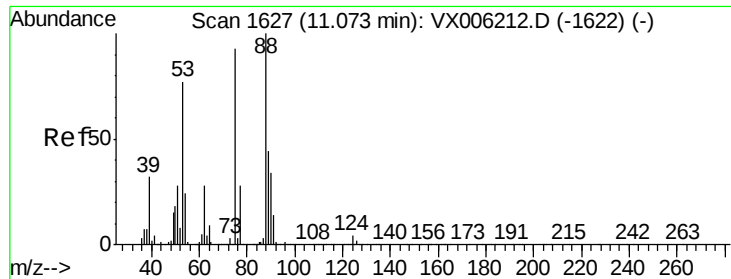


Abundance

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: 56.363 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006573.D

Acq: 17 Dec 2018 15:25

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 220488

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.1 44.2 66.4#

