

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041519\
 Data File : VX008966.D
 Acq On : 15 Apr 2019 17:32
 Operator : JC/SP
 Sample : K2387-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 16 03:24:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 02:27:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	273093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	432199	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	370774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	157362	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	173999	45.21	ug/l	0.00
Spiked Amount			Recovery	=	90.42%	
35) Dibromofluoromethane	5.50	113	129446	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	
50) Toluene-d8	8.71	98	535320	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
62) 4-Bromofluorobenzene	11.13	95	175977	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	

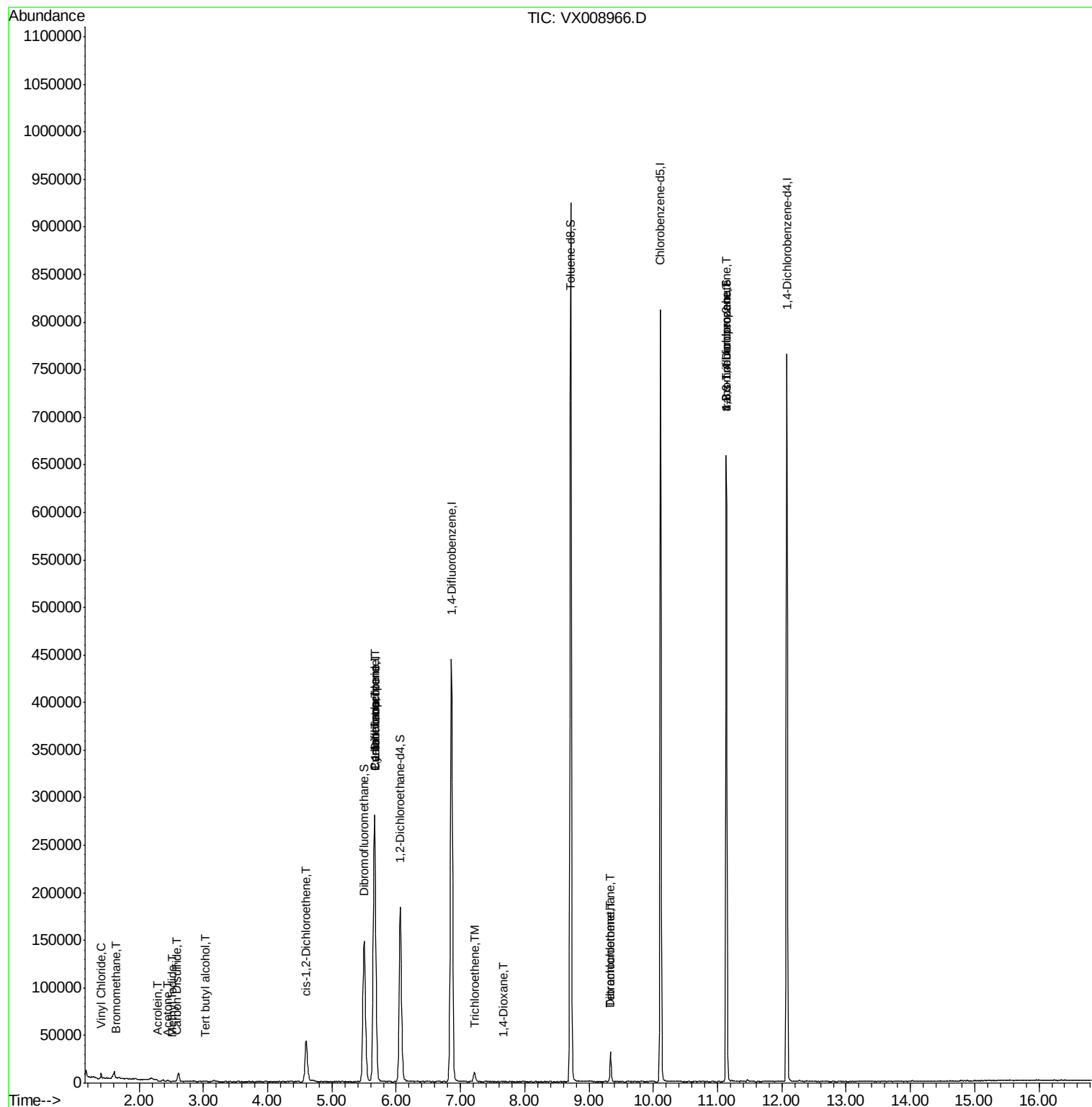
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	2858	0.760	ug/l	96
5) Bromomethane	1.65	94	390	4.001	ug/l #	46
10) Methyl Iodide	2.52	142	492	4.561	ug/l #	78
11) Tert butyl alcohol	3.03	59	256	0.300	ug/l #	72
13) Acrolein	2.29	56	183	0.248	ug/l #	74
16) Acetone	2.45	43	1187	0.595	ug/l	90
17) Carbon Disulfide	2.57	76	954	1.361	ug/l #	84
27) cis-1,2-Dichloroethene	4.60	96	27250	7.684	ug/l	89
28) Bromochloromethane	5.05	49	110	Below Cal	#	21
31) Cyclohexane	5.66	56	6109	0.997	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	21210	4.745	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25328	6.684	ug/l #	17
44) Trichloroethene	7.21	130	3963	1.227	ug/l	97
49) 1,4-Dioxane	7.66	88	19	0.222	ug/l #	1
60) Dibromochloromethane	9.33	129	5507	1.835	ug/l #	10
64) Tetrachloroethene	9.33	164	5763	2.046	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	89022	23.168	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	89022	59.478	ug/l #	11

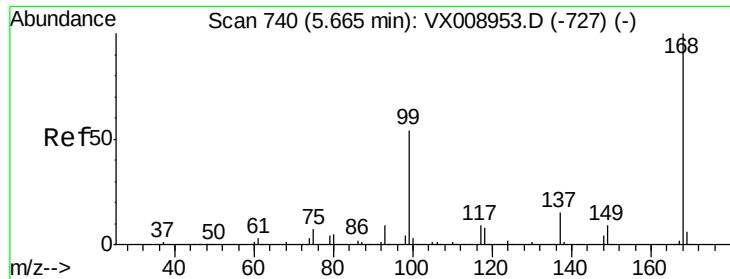
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 16 02:27:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

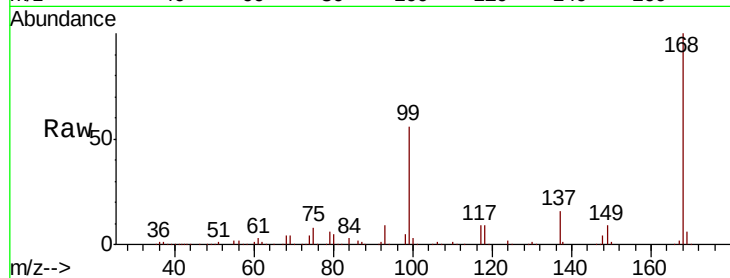
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 273093

Ion Ratio Lower Upper

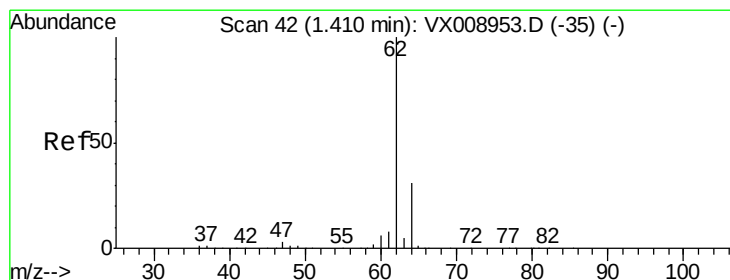
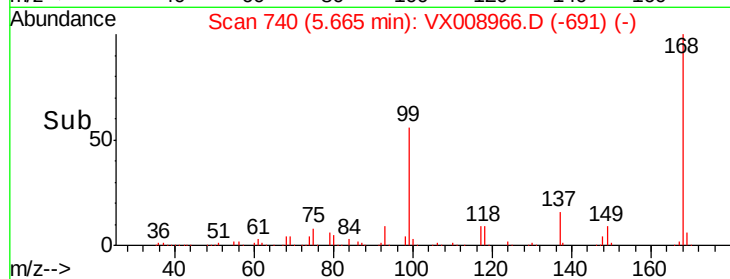
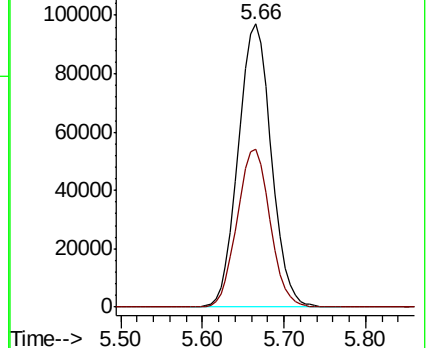
168 100

99 55.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.760 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008966.D

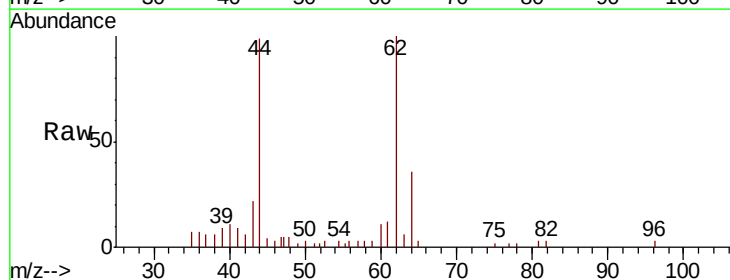
Acq: 15 Apr 2019 17:32

Tgt Ion: 62 Resp: 2858

Ion Ratio Lower Upper

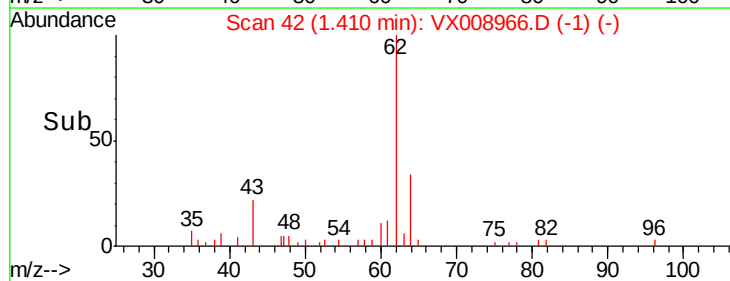
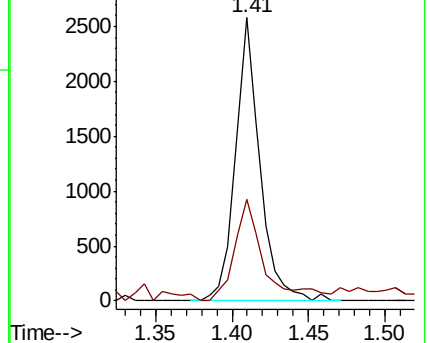
62 100

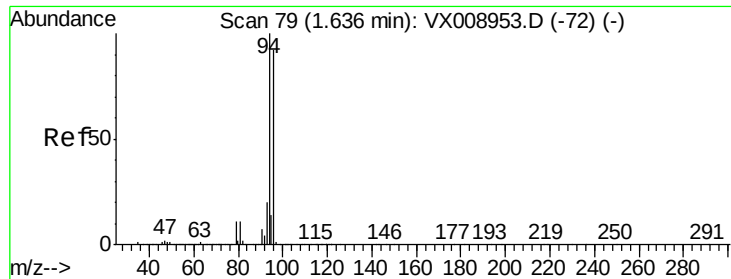
64 33.3 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 4.001 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

Instrument :

MSVOA_X

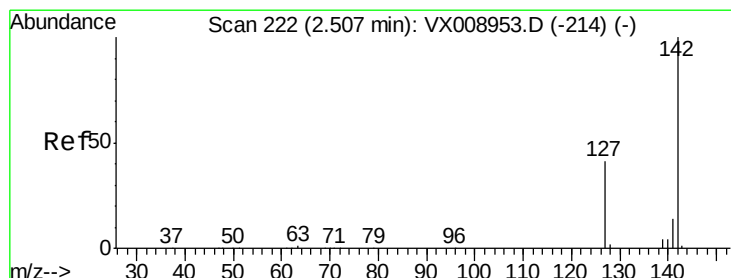
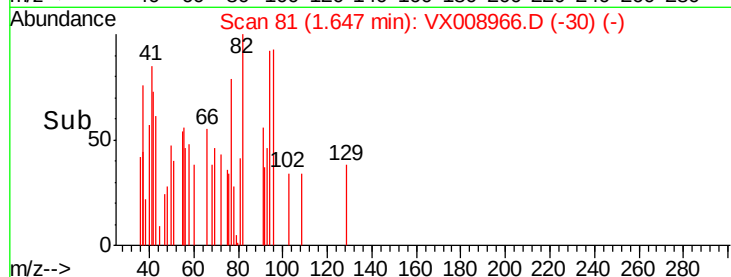
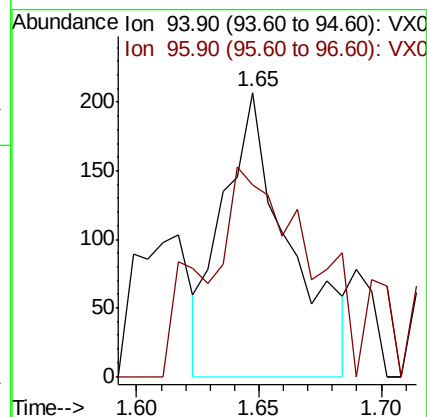
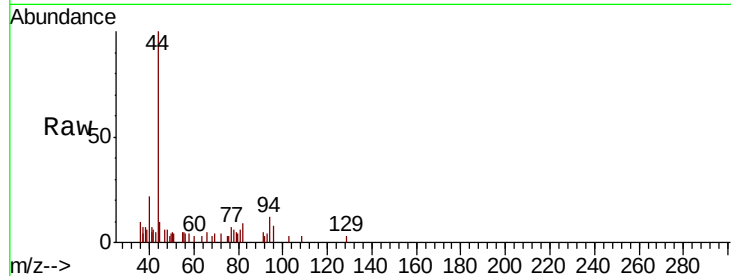
ClientSampled :

Tot Ion: 94 Resp: 390

Ion Ratio Lower Upper

94 100

96 40.9 73.9 110.9#



#10

Methyl Iodide

Concen: 4.561 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

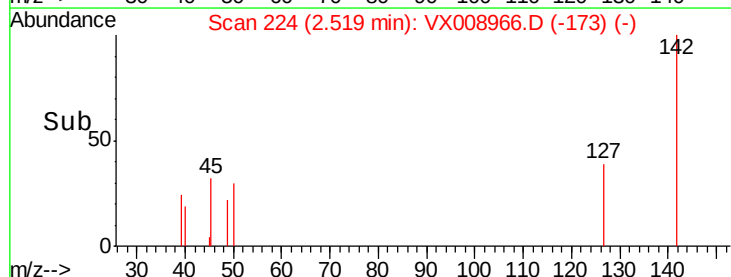
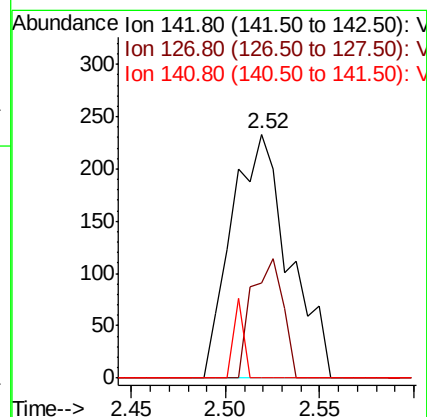
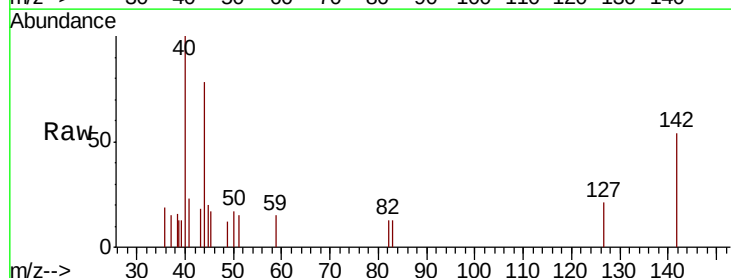
Tgt Ion: 142 Resp: 492

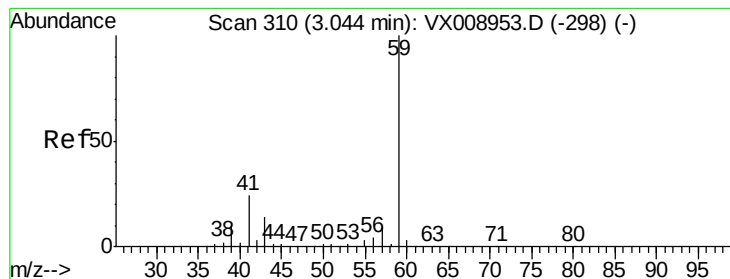
Ion Ratio Lower Upper

142 100

127 26.6 32.8 49.2#

141 5.7 11.4 17.2#



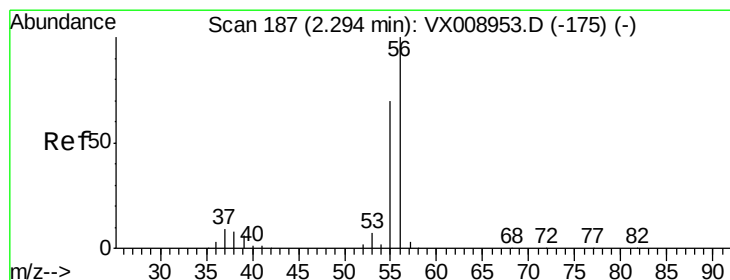
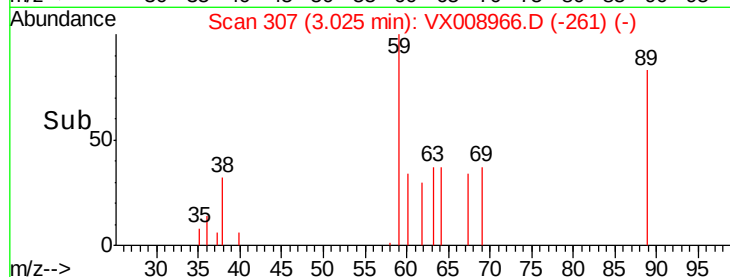
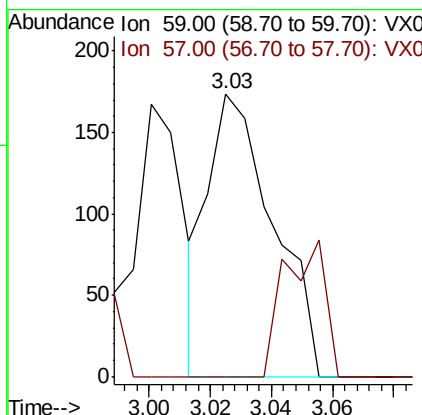
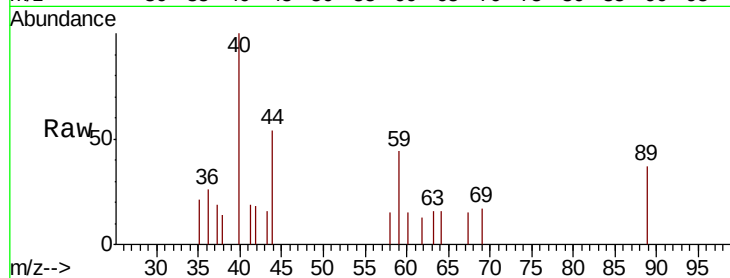


#11

Tert butyl alcohol
 Concen: 0.300 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.02 min
 Lab File: VX008966.D
 Acq: 15 Apr 2019 17:32

Instrument :
 MSVOA_X
 ClientSampled :

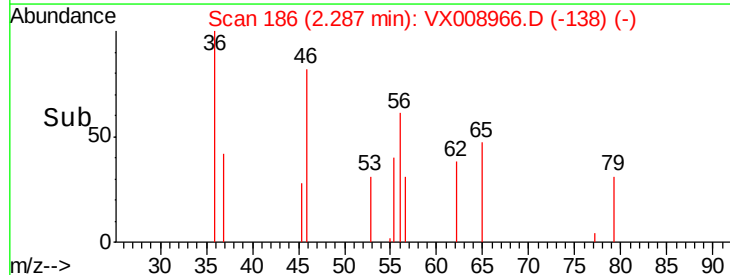
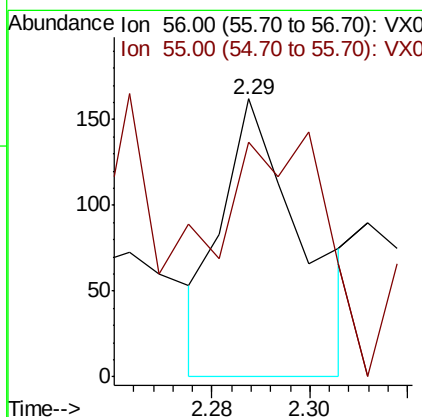
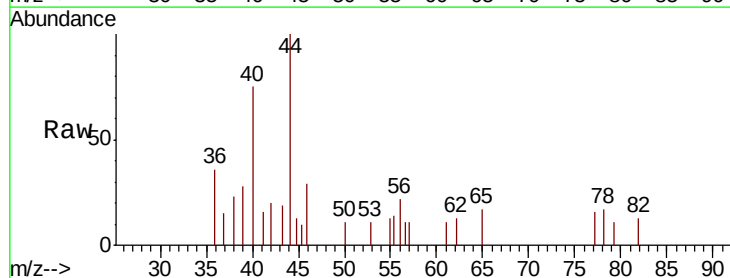
Tot Ion: 59 Resp: 256
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

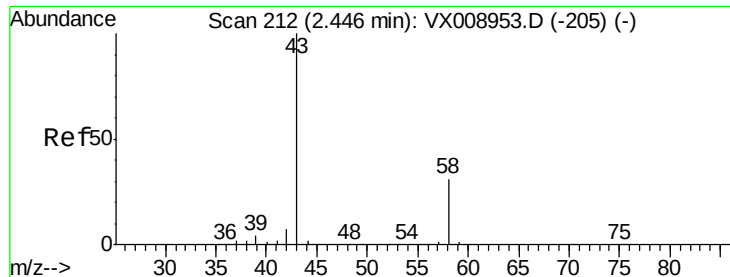


#13

Acrolein
 Concen: 0.248 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX008966.D
 Acq: 15 Apr 2019 17:32

Tgt Ion: 56 Resp: 183
 Ion Ratio Lower Upper
 56 100
 55 92.3 56.6 84.8#





#16

Acetone

Concen: 0.595 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

Instrument :

MSVOA_X

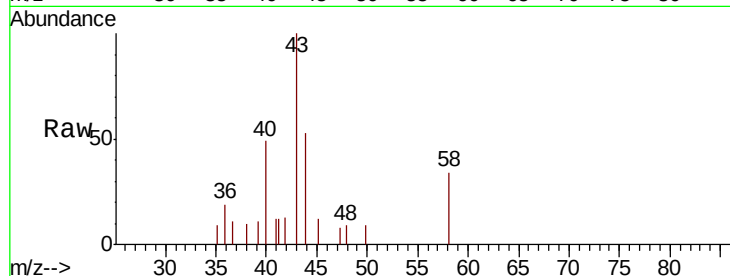
ClientSampleId :

Tot Ion: 43 Resp: 1187

Ion Ratio Lower Upper

43 100

58 36.6 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

800

600

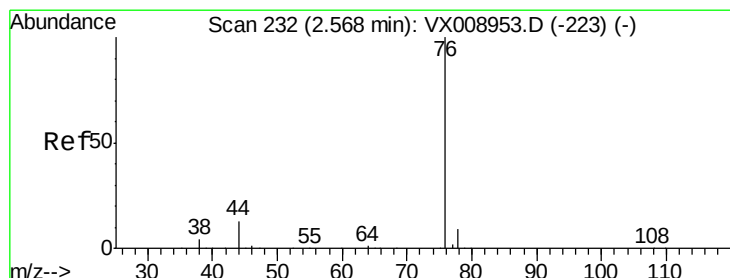
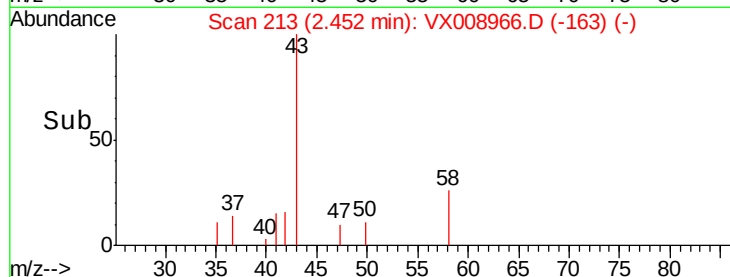
400

200

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 1.361 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008966.D

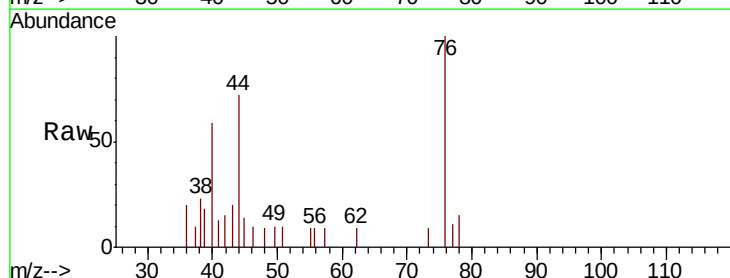
Acq: 15 Apr 2019 17:32

Tgt Ion: 76 Resp: 954

Ion Ratio Lower Upper

76 100

78 14.8 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

600

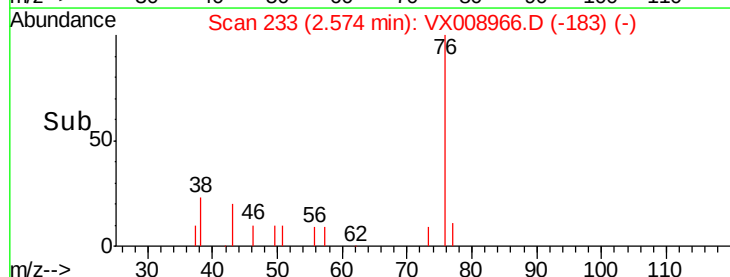
400

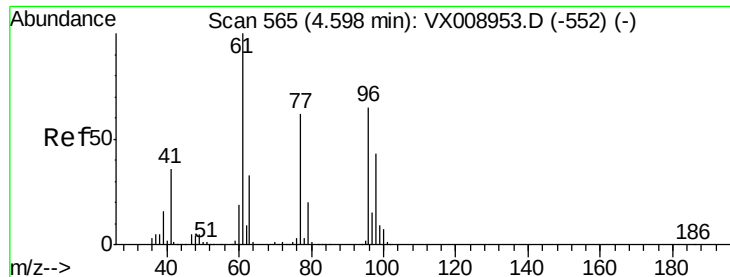
200

0

2.55 2.60

Time-->



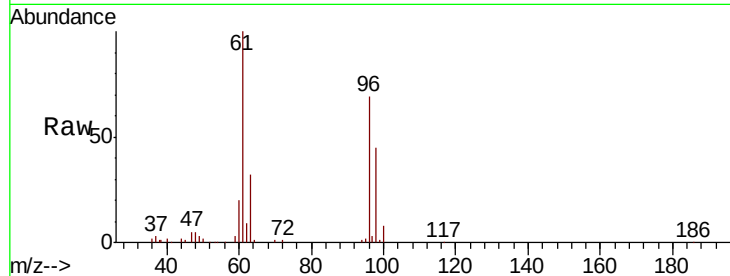


#27

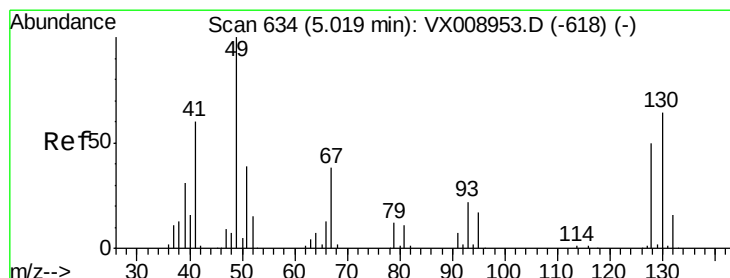
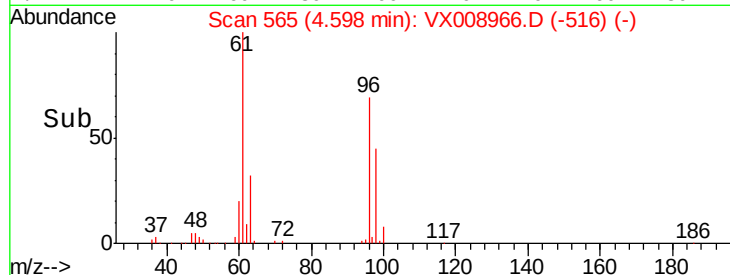
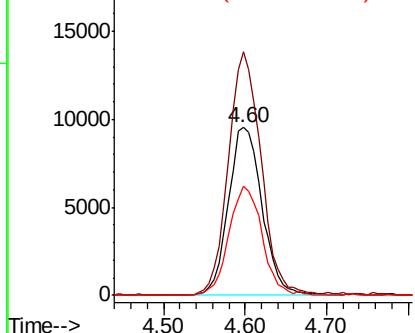
cis-1,2-Dichloroethene
 Concen: 7.684 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX008966.D
 Acq: 15 Apr 2019 17:32

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 96 Resp: 27250
 Ion Ratio Lower Upper
 96 100
 61 141.6 0.0 322.0
 98 63.9 0.0 128.4



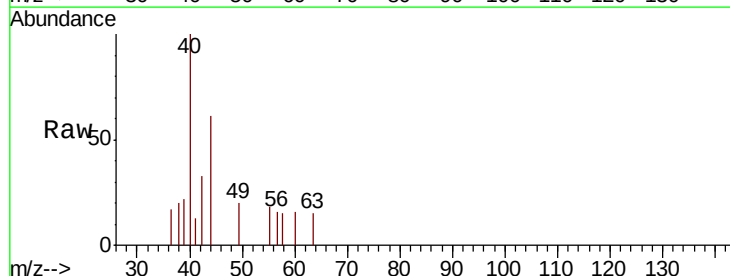
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



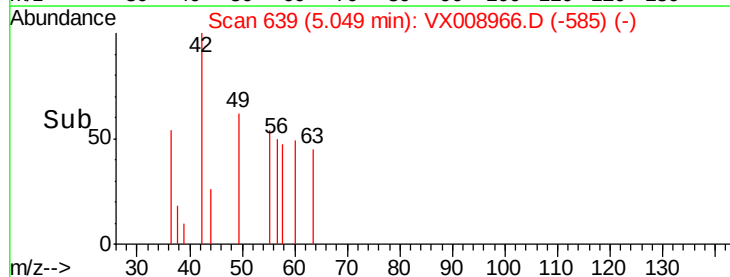
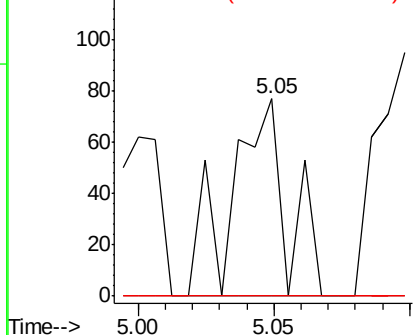
#28

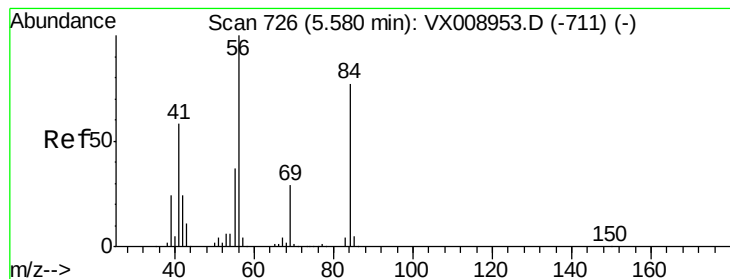
Bromochloromethane
 Concen: Below Cal
 RT: 5.05 min Scan# 639
 Delta R.T. 0.03 min
 Lab File: VX008966.D
 Acq: 15 Apr 2019 17:32

Tgt Ion: 49 Resp: 110
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.6
 130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#31

Cyclohexane

Concen: 0.997 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

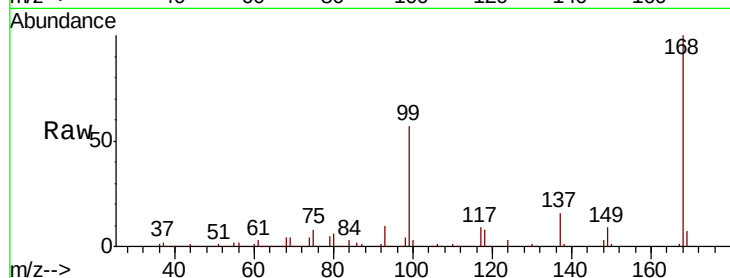
Tot Ion: 56 Resp: 6109

Ion Ratio Lower Upper

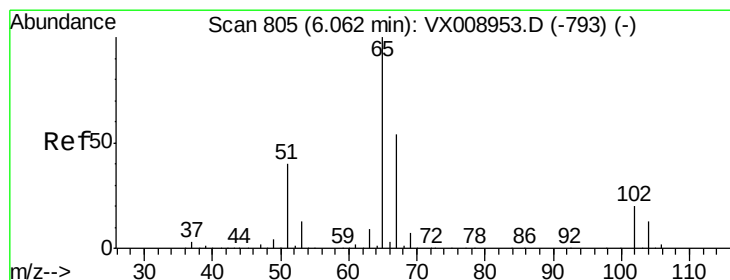
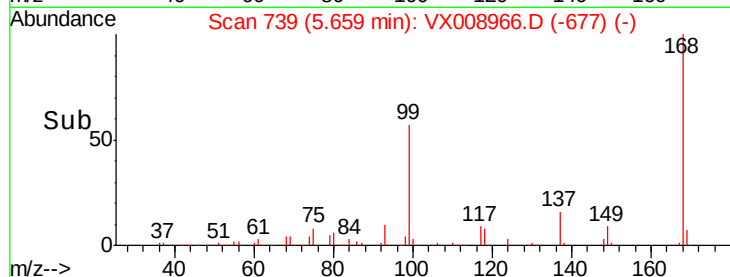
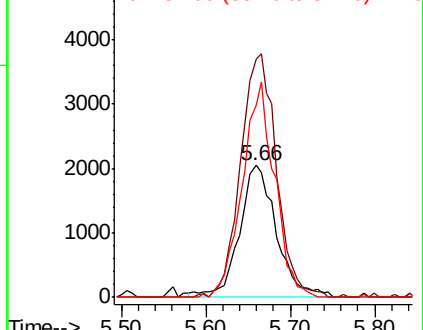
56 100

69 181.0 23.3 34.9#

84 145.9 61.7 92.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.210 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008966.D

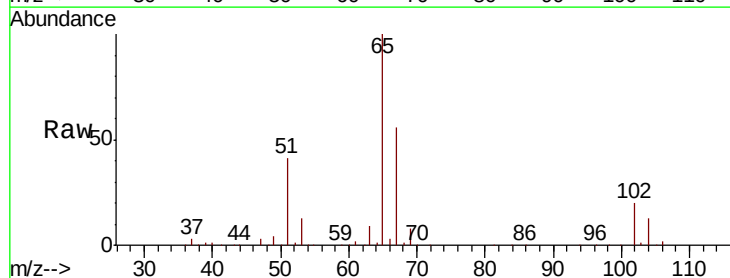
Acq: 15 Apr 2019 17:32

Tgt Ion: 65 Resp: 173999

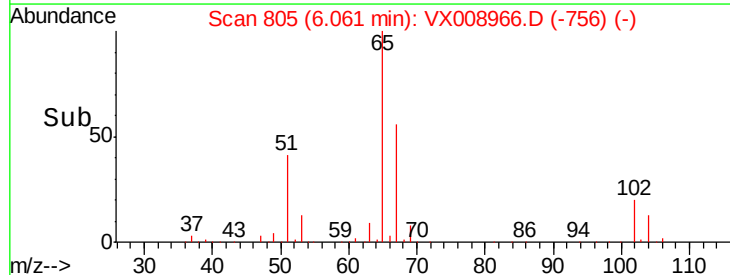
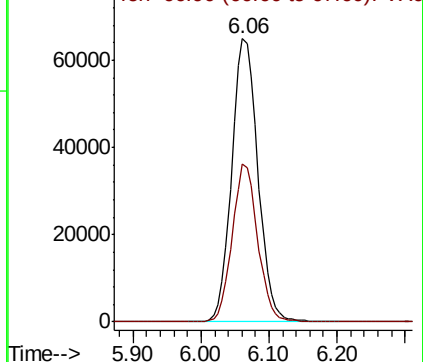
Ion Ratio Lower Upper

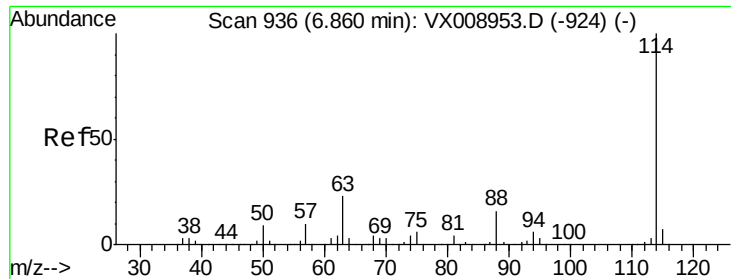
65 100

67 54.2 0.0 108.6



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

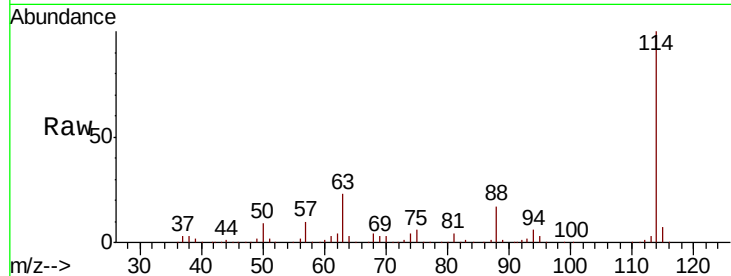




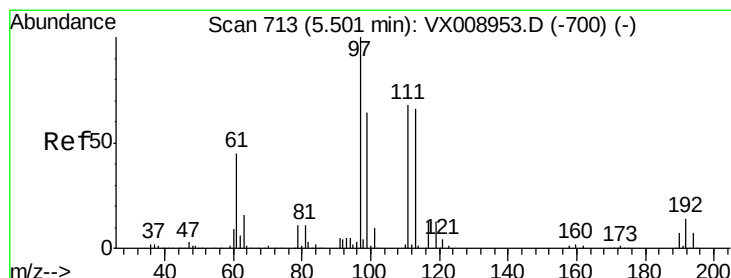
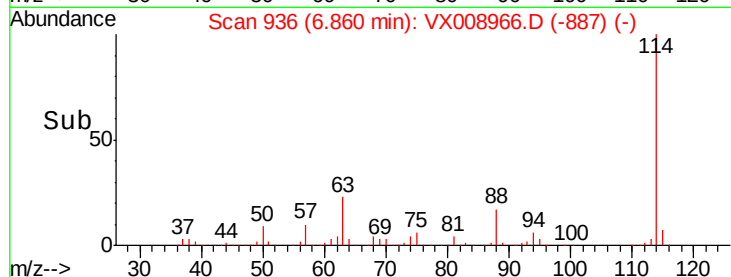
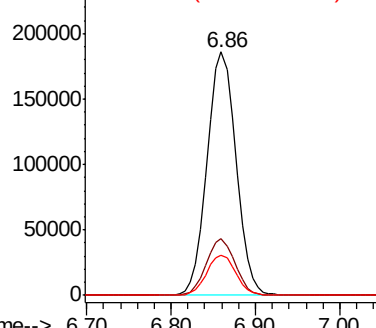
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008966.D
 Acq: 15 Apr 2019 17:32

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 432199
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 46.0
 88 16.7 0.0 32.6

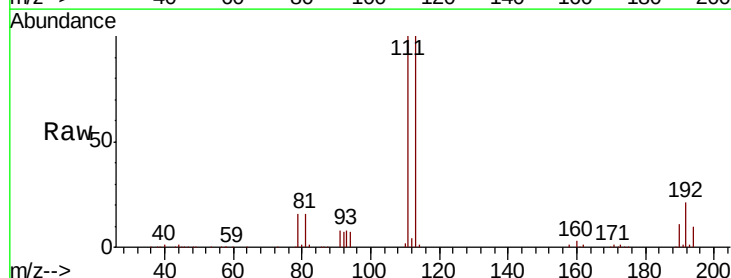


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

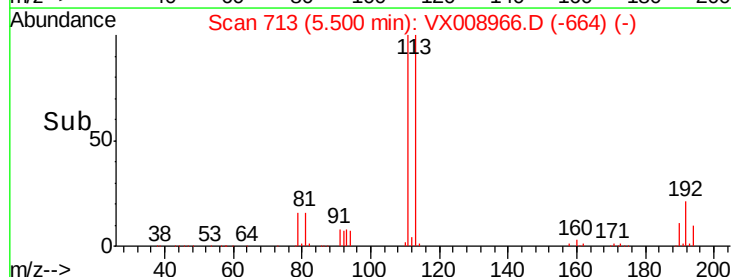
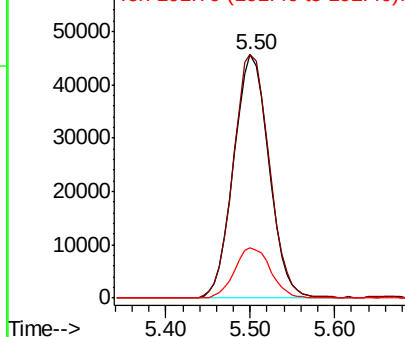


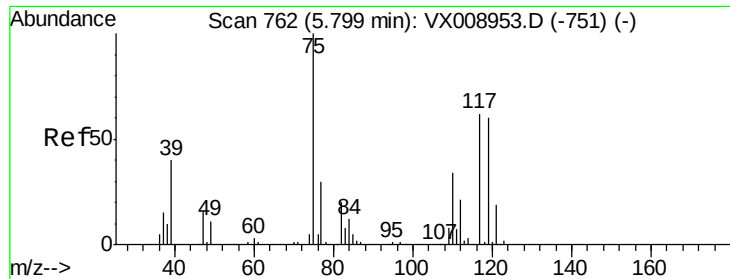
#35
 Dibromofluoromethane
 Concen: 46.668 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008966.D
 Acq: 15 Apr 2019 17:32

Tgt Ion:113 Resp: 129446
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.9 124.3
 192 21.3 17.4 26.0



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

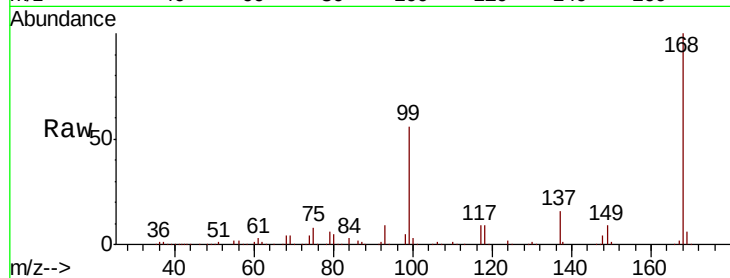




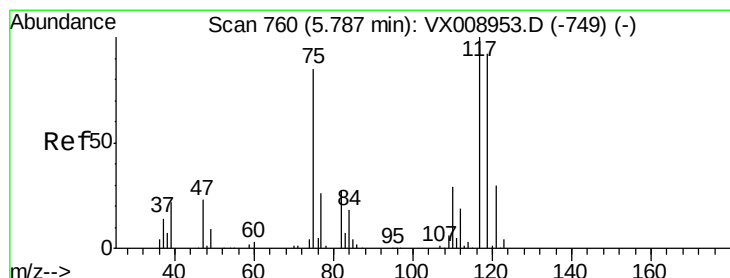
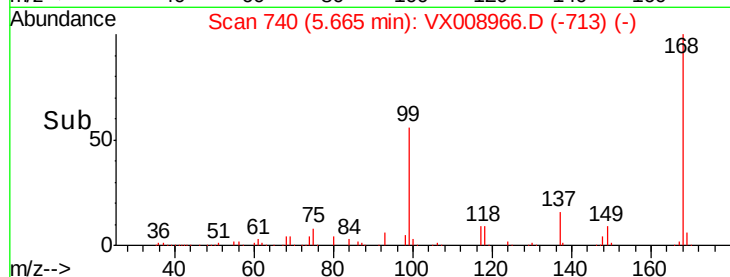
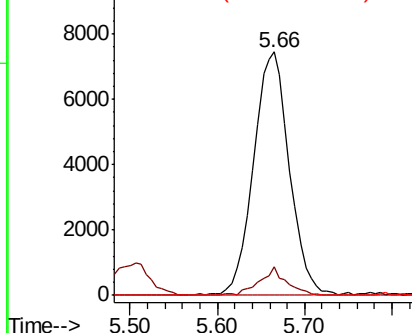
#36
 1,1-Dichloropropene
 Concen: 4.745 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008966.D
 Acq: 15 Apr 2019 17:32

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.9	50.7#
77	0.0	25.0	37.4#

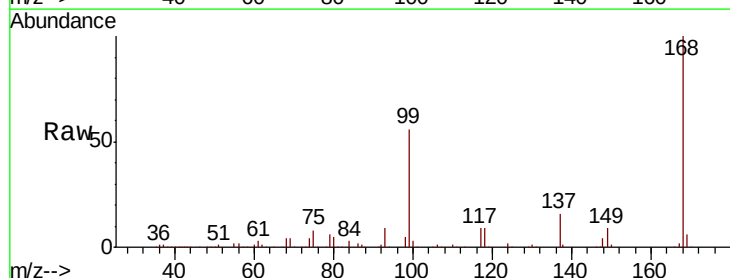


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

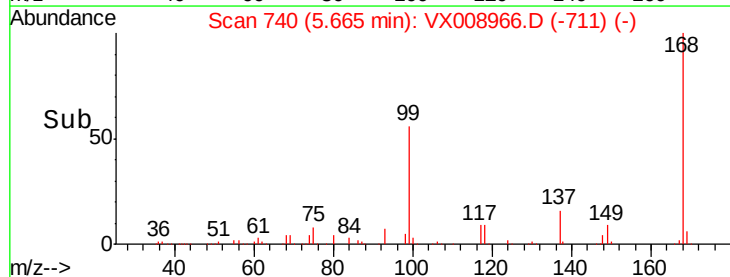
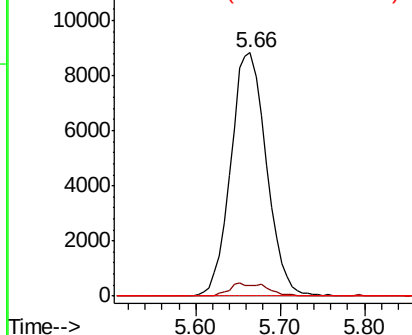


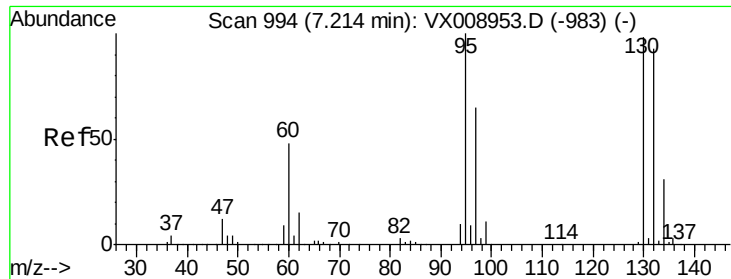
#38
 Carbon Tetrachloride
 Concen: 6.684 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX008966.D
 Acq: 15 Apr 2019 17:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	73.8	110.8#
121	0.0	23.6	35.4#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 1.227 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

Instrument :

MSVOA_X

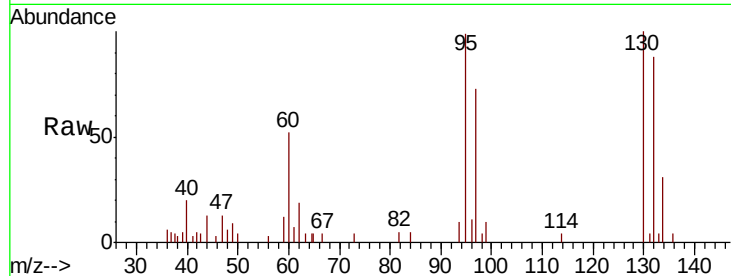
ClientSampled :

Tot Ion:130 Resp: 3963

Ion Ratio Lower Upper

130 100

95 98.8 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

2000

1500

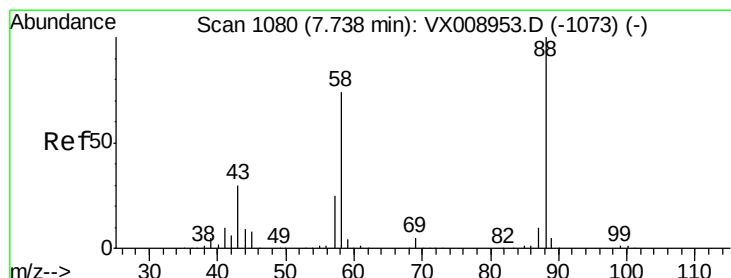
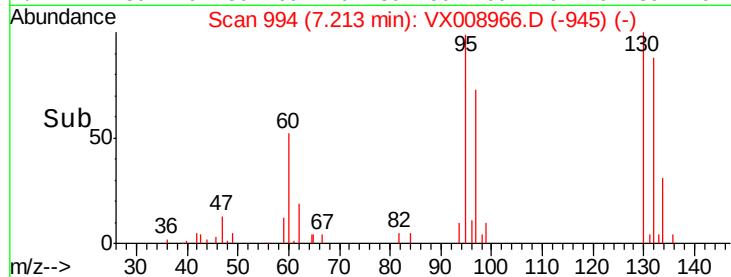
1000

500

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 0.222 ug/l

RT: 7.66 min Scan# 1068

Delta R.T. -0.07 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

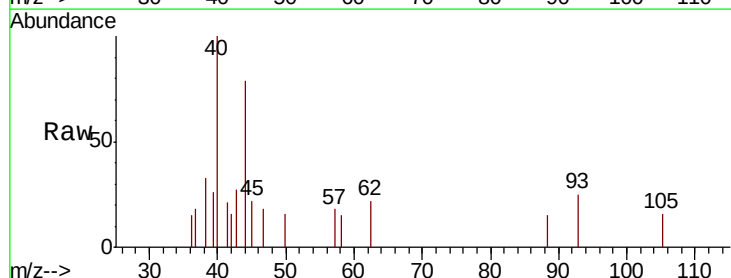
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1510.5 29.3 43.9#

58 315.8 62.6 93.8#



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

150

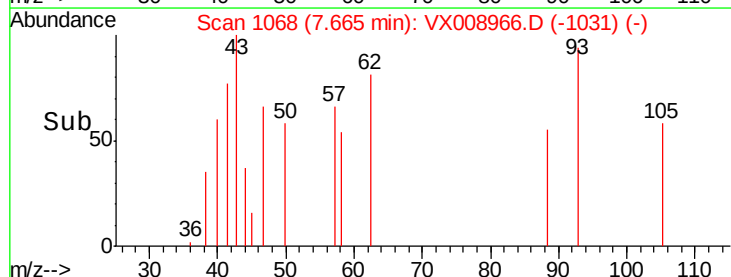
100

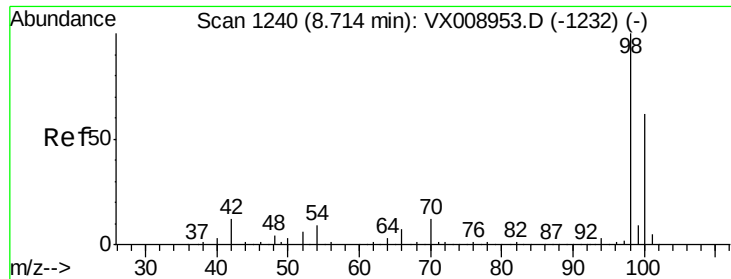
50

0

7.65 7.66 7.67 7.68

Time-->

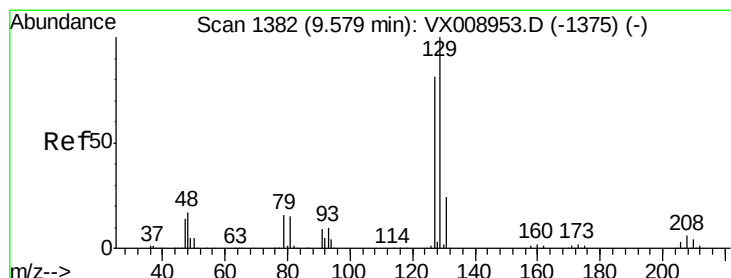
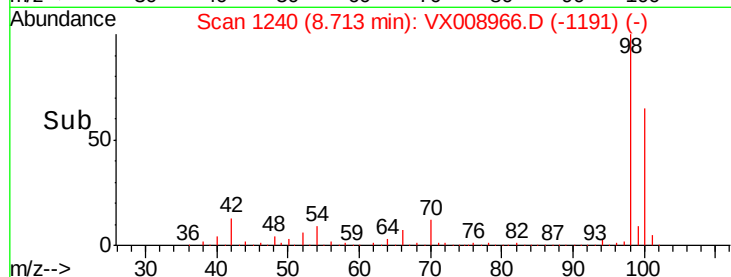
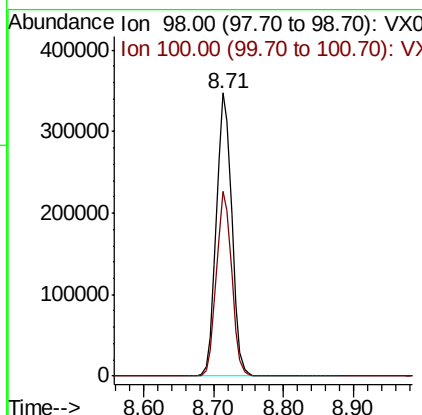
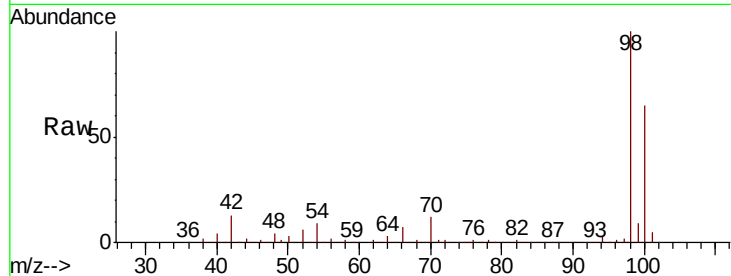




#50
Toluene-d8
Concen: 48.393 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008966.D
Acq: 15 Apr 2019 17:32

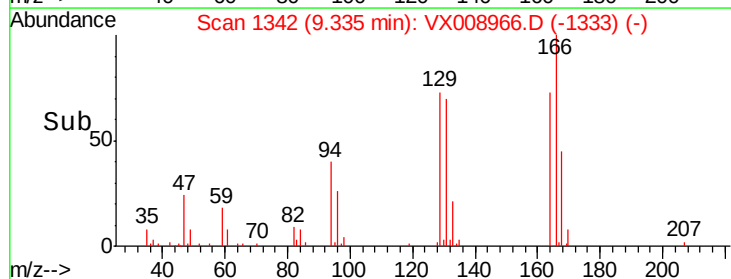
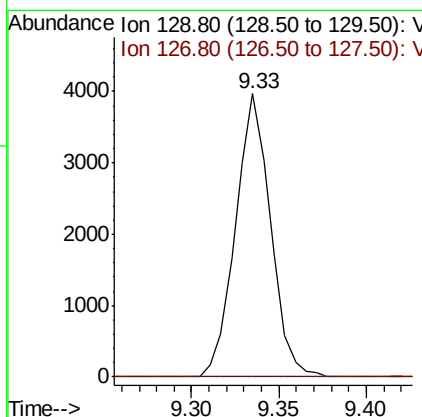
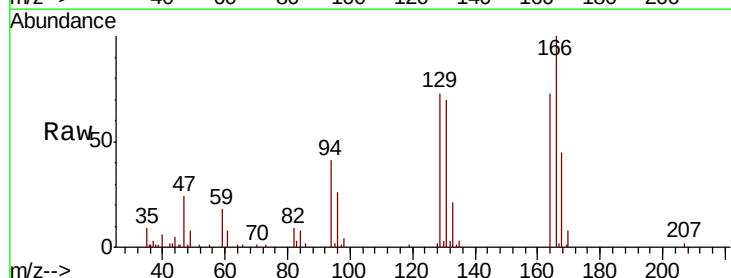
Instrument :
MSVOA_X
ClientSampled :

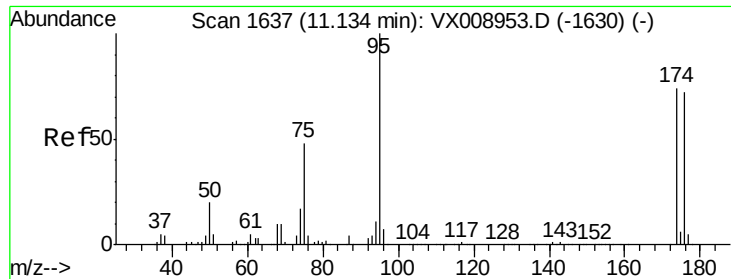
Tot Ion: 98 Resp: 535320
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.2



#60
Dibromochloromethane
Concen: 1.835 ug/l
RT: 9.33 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008966.D
Acq: 15 Apr 2019 17:32

Tgt Ion:129 Resp: 5507
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 45.066 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

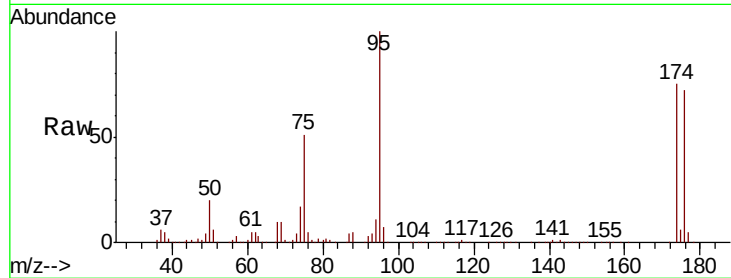
Tot Ion: 95 Resp: 175977

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.6

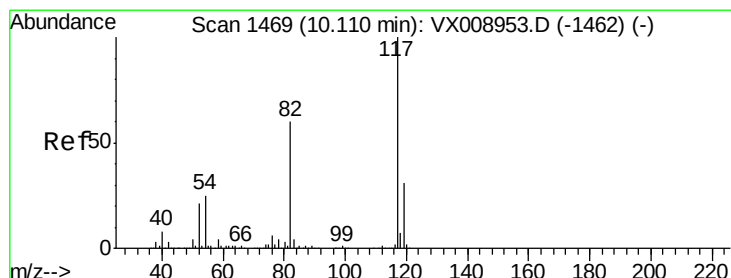
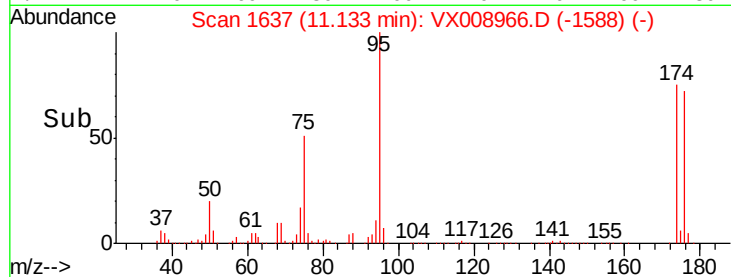
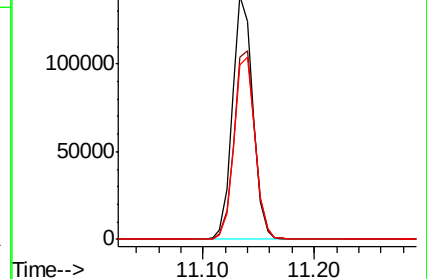
176 77.2 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

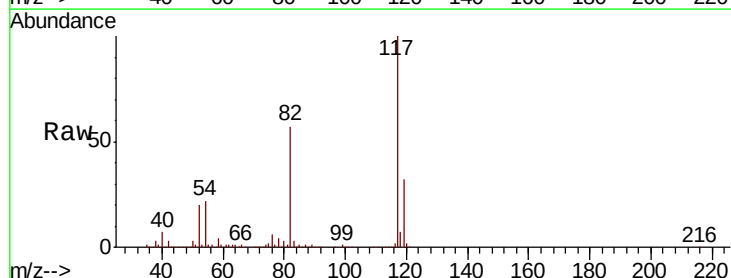
Tgt Ion: 117 Resp: 370774

Ion Ratio Lower Upper

117 100

82 57.3 48.2 72.4

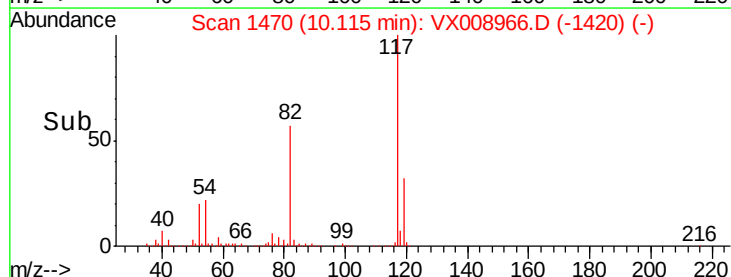
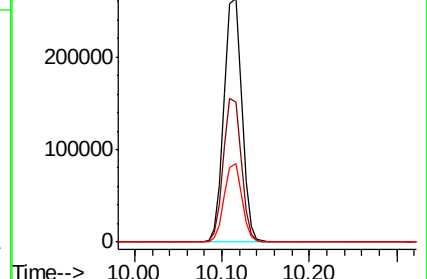
119 32.0 25.0 37.6

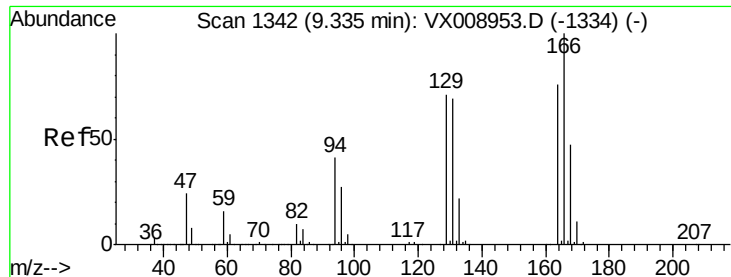


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)





#64

Tetrachloroethene

Concen: 2.046 ug/l

RT: 9.33 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 5763

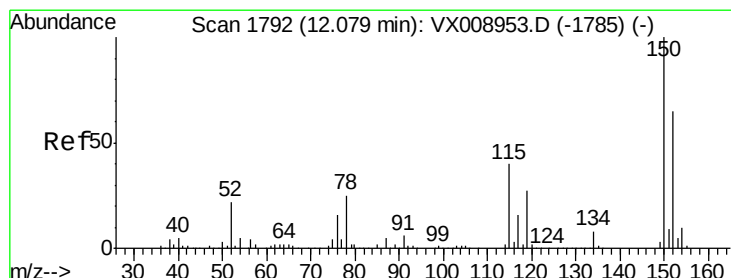
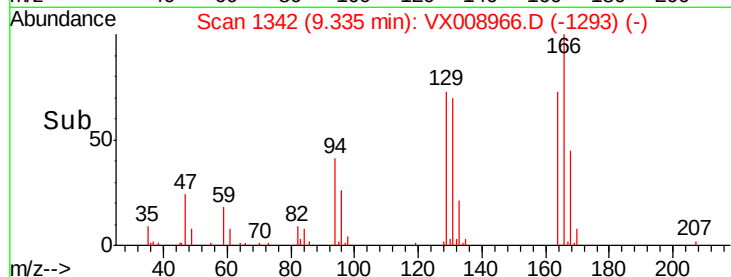
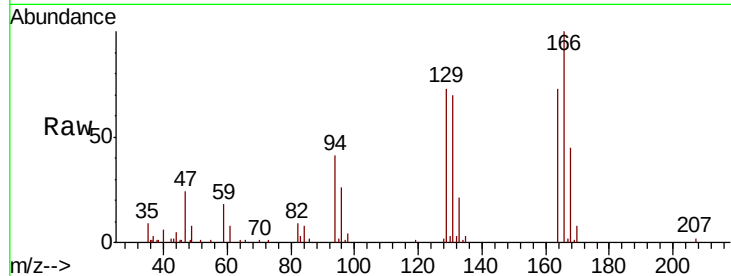
Ion Ratio Lower Upper

164 100

166 136.4 105.0 157.4

129 99.8 74.2 111.4

131 95.4 72.2 108.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

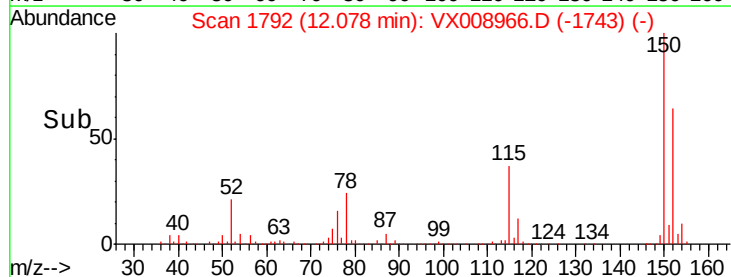
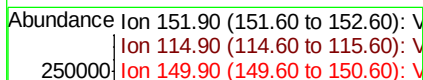
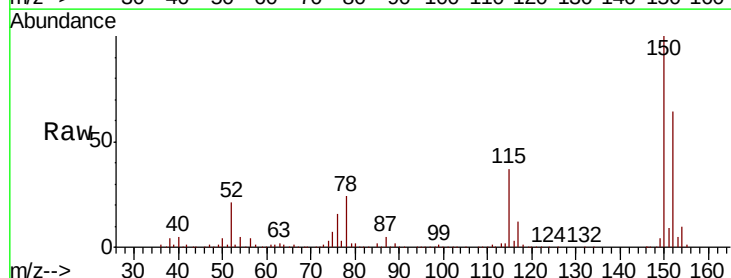
Tgt Ion:152 Resp: 157362

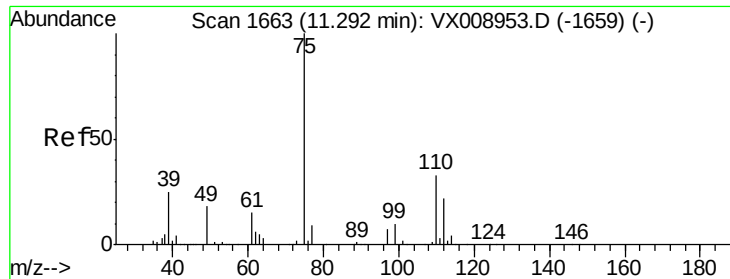
Ion Ratio Lower Upper

152 100

115 59.2 41.4 124.2

150 156.4 0.0 349.8





#76

1,2,3-Trichloropropane

Concen: 23.168 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

Instrument :

MSVOA_X

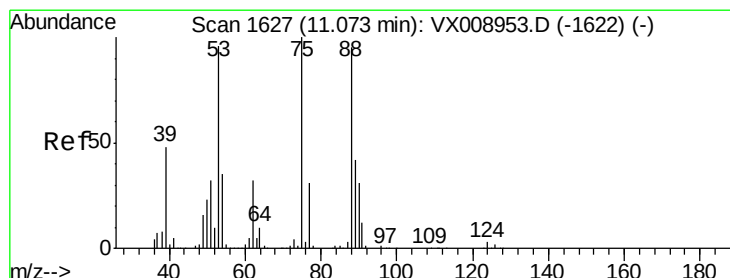
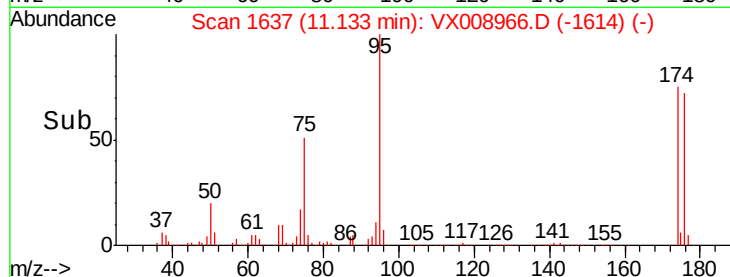
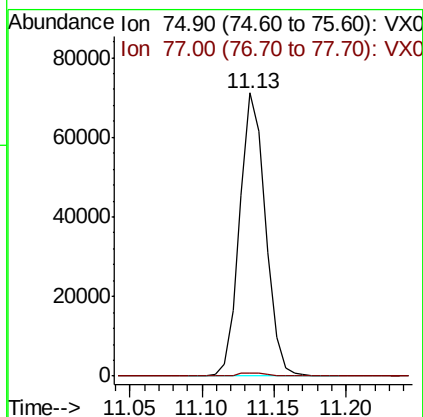
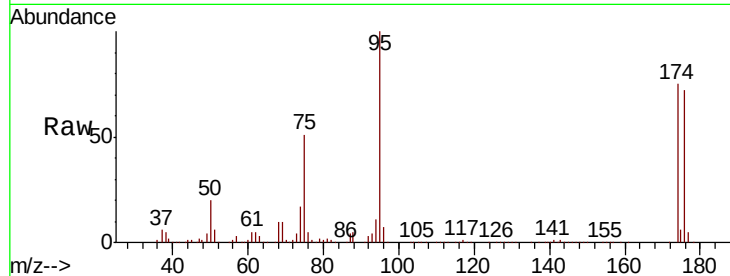
ClientSampleId :

Tot Ion: 75 Resp: 89022

Ion Ratio Lower Upper

75 100

77 1.3 22.7 68.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.478 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008966.D

Acq: 15 Apr 2019 17:32

Tgt Ion: 75 Resp: 89022

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 36.0 54.0#

