

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041519\
 Data File : VX008969.D
 Acq On : 15 Apr 2019 18:42
 Operator : JC/SP
 Sample : K2387-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 16 03:25:08 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	270093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	429788	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	364731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150182	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	173863	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
35) Dibromofluoromethane	5.50	113	128035	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
50) Toluene-d8	8.71	98	531188	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	11.13	95	173099	44.58	ug/l	0.00
Spiked Amount			Recovery	=	89.16%	

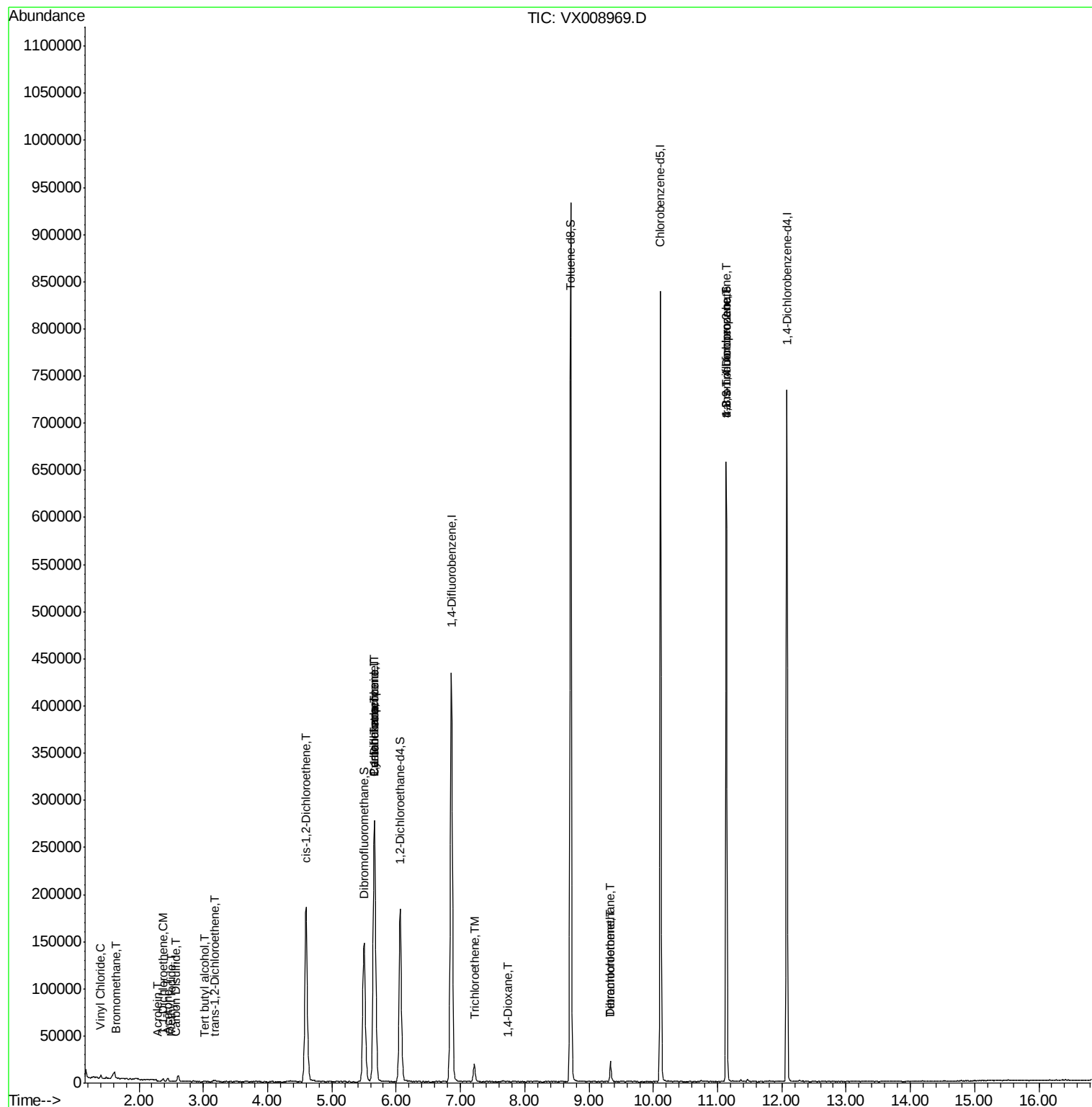
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	2322	0.625	ug/l	94
5) Bromomethane	1.65	94	284	3.961	ug/l	83
10) Methyl Iodide	2.51	142	152	4.460	ug/l #	42
11) Tert butyl alcohol	3.01	59	431	0.510	ug/l #	86
12) 1,1-Dichloroethene	2.37	96	861	0.297	ug/l #	69
13) Acrolein	2.28	56	176	0.241	ug/l #	43
16) Acetone	2.44	43	4174	2.115	ug/l	99
17) Carbon Disulfide	2.57	76	691	1.332	ug/l #	55
21) trans-1,2-Dichloroethene	3.18	96	669	0.217	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	114893	32.755	ug/l	90
28) Bromochloromethane	5.04	49	22	Below Cal	#	21
31) Cyclohexane	5.67	56	5790	0.955	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	21302	4.792	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25434	6.750	ug/l #	17
44) Trichloroethene	7.21	130	6869	2.138	ug/l	94
49) 1,4-Dioxane	7.73	88	22	0.258	ug/l #	1
60) Dibromochloromethane	9.34	129	3613	1.210	ug/l #	10
64) Tetrachloroethene	9.34	164	3963	1.430	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	87793	23.940	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	87793	61.462	ug/l #	11

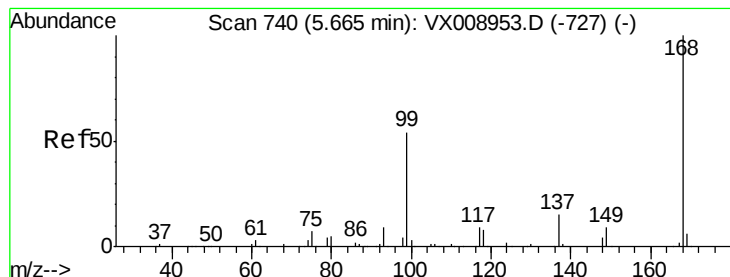
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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# 739

Delta R.T. -0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

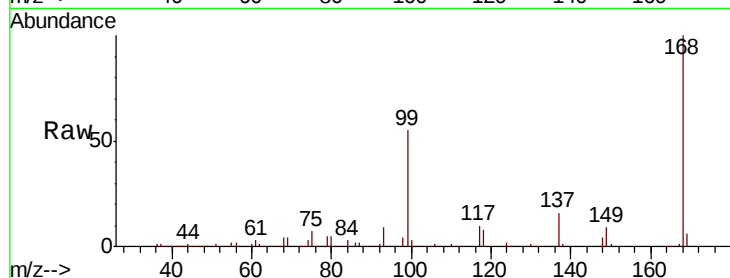
ClientSampleId :

Tot Ion:168 Resp: 270093

Ion Ratio Lower Upper

168 100

99 54.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

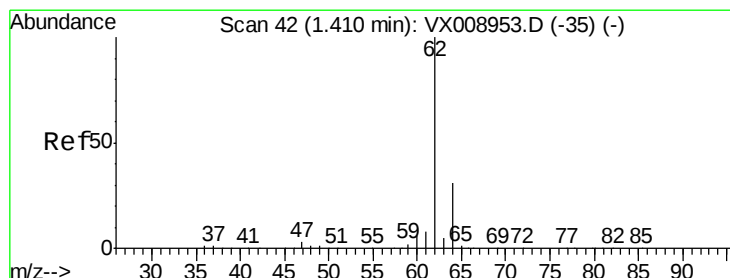
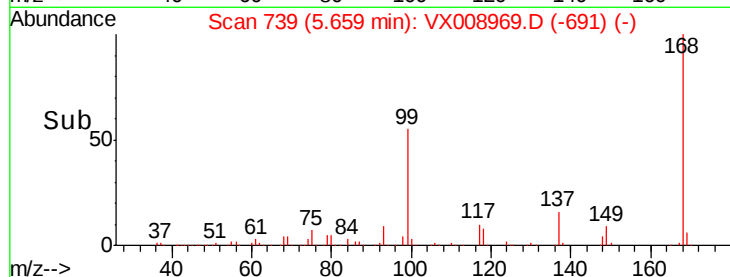
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.625 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX008969.D

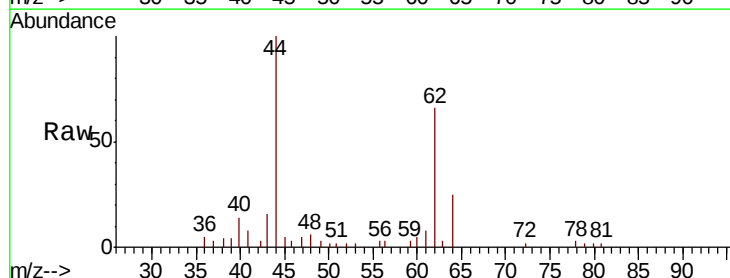
Acq: 15 Apr 2019 18:42

Tgt Ion: 62 Resp: 2322

Ion Ratio Lower Upper

62 100

64 34.8 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

2000

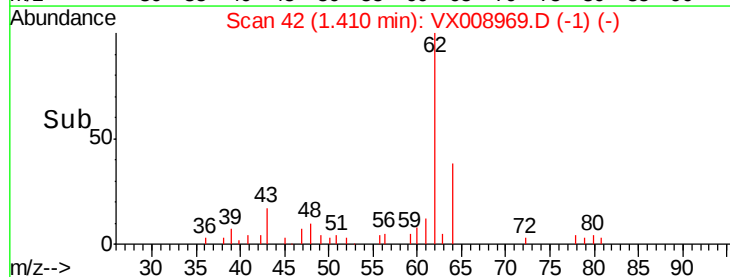
1500

1000

500

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 3.961 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

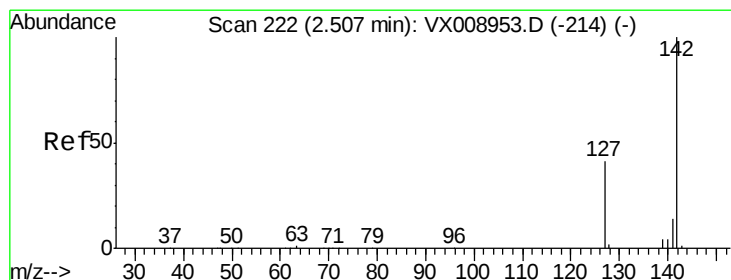
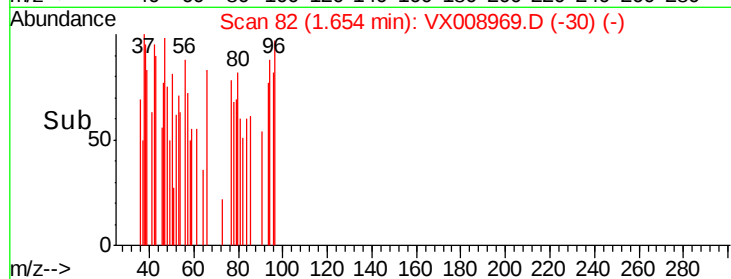
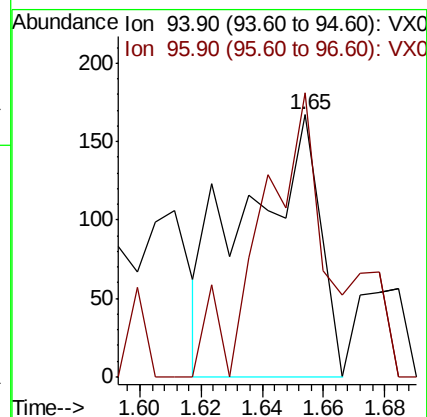
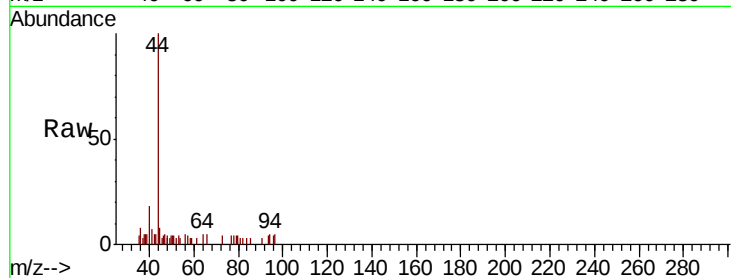
ClientSampled :

Tot Ion: 94 Resp: 284

Ion Ratio Lower Upper

94 100

96 108.4 73.9 110.9



#10

Methyl Iodide

Concen: 4.460 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

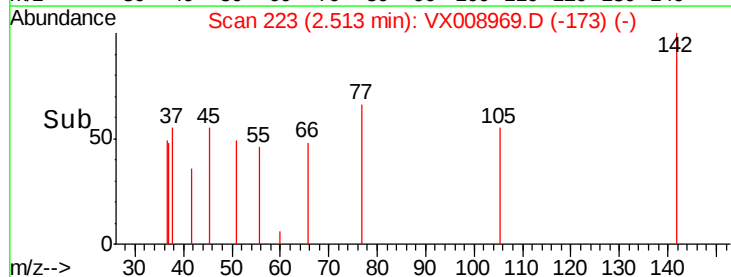
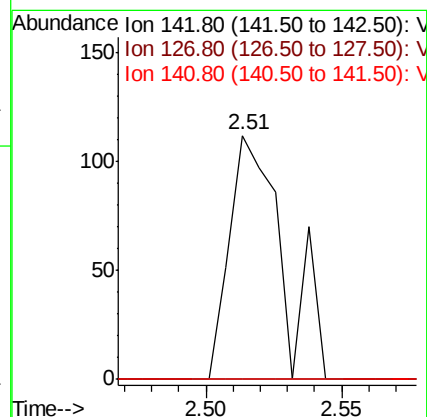
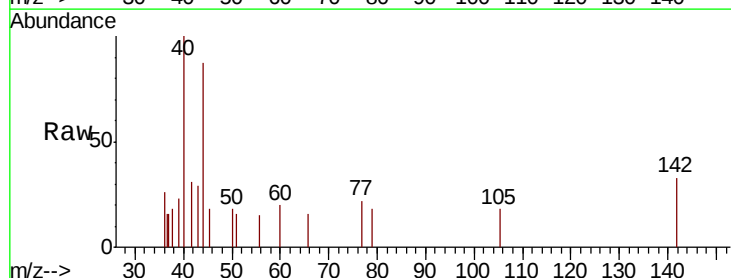
Tgt Ion: 142 Resp: 152

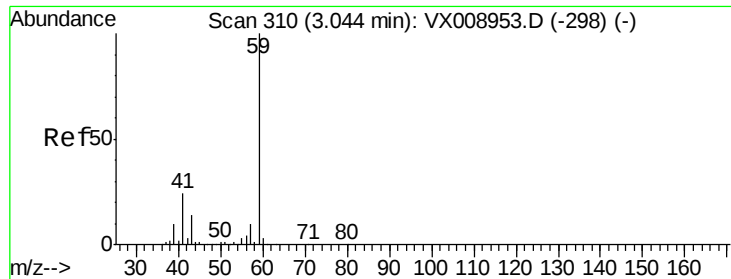
Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#

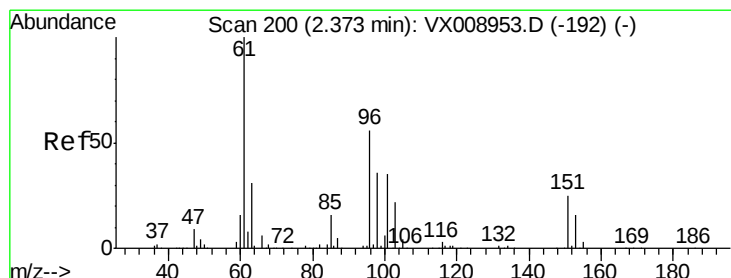
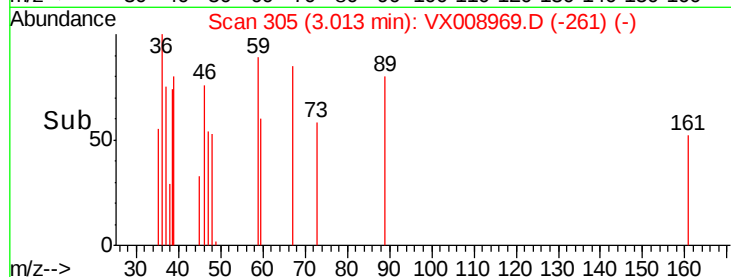
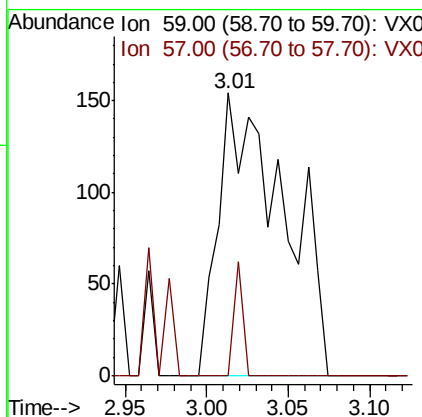
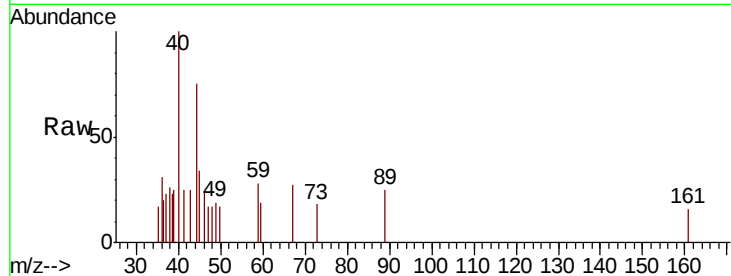




#11
Tert butvl alcohol
Concen: 0.510 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.03 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

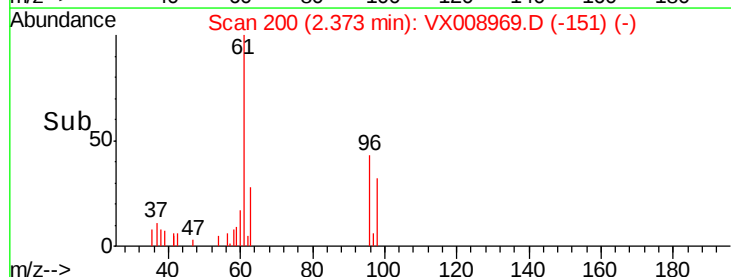
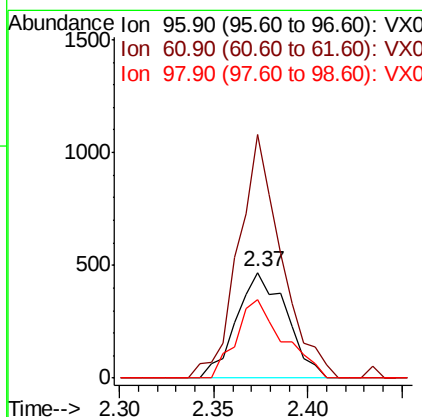
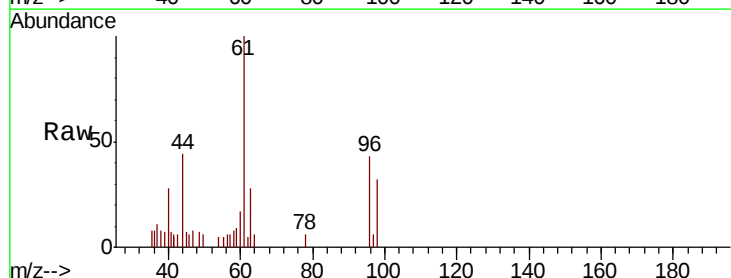
Instrument :
MSVOA_X
ClientSampled :

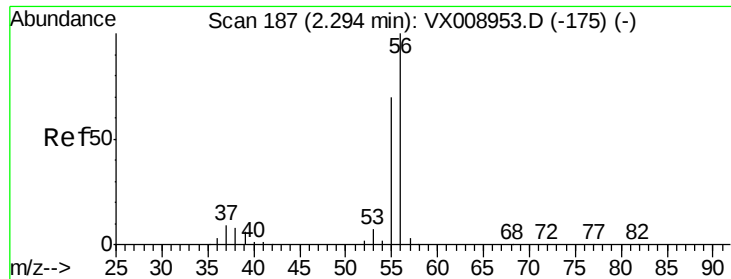
Tot Ion: 59 Resp: 431
Ion Ratio Lower Upper
59 100
57 5.3 8.4 12.6#



#12
1,1-Dichloroethene
Concen: 0.297 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Tgt Ion: 96 Resp: 861
Ion Ratio Lower Upper
96 100
61 230.1 142.2 213.2#
98 74.2 50.9 76.3





#13

Acrolein

Concen: 0.241 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

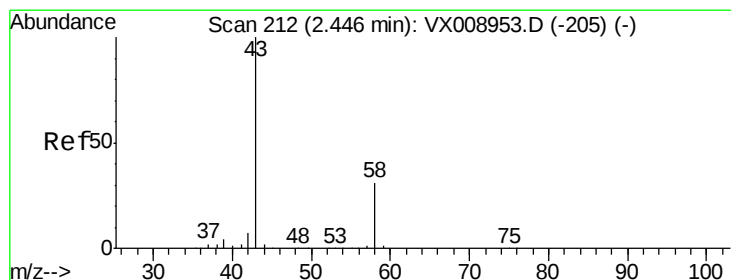
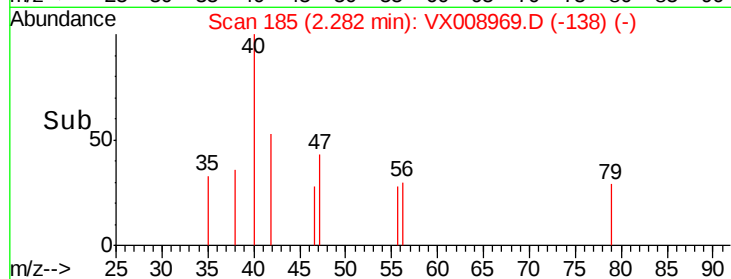
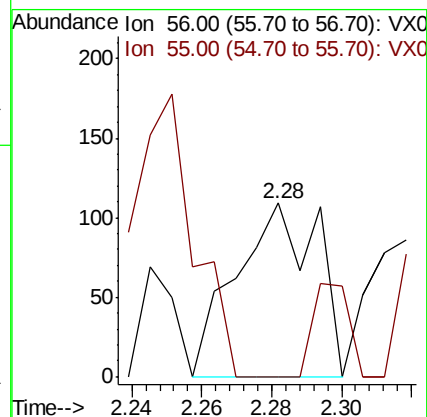
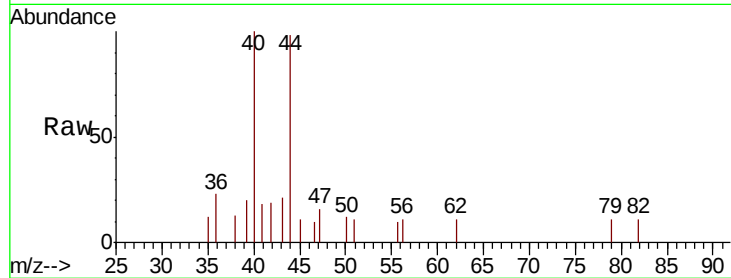
ClientSampled :

Tot Ion: 56 Resp: 176

Ion Ratio Lower Upper

56 100

55 23.9 56.6 84.8#



#16

Acetone

Concen: 2.115 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008969.D

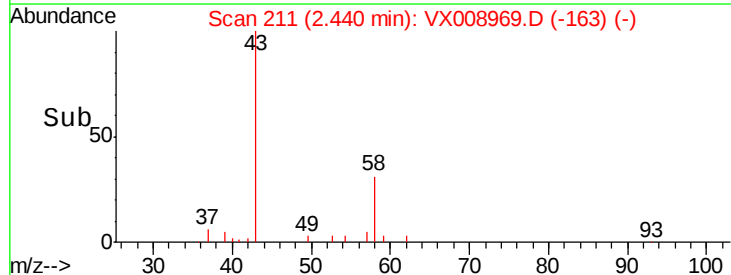
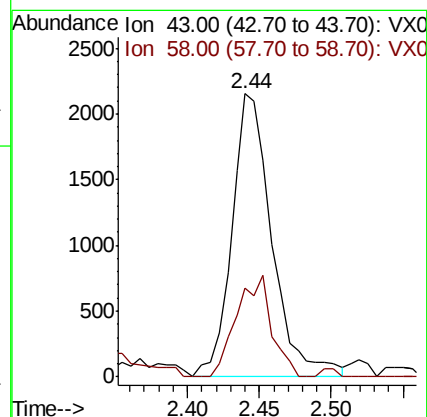
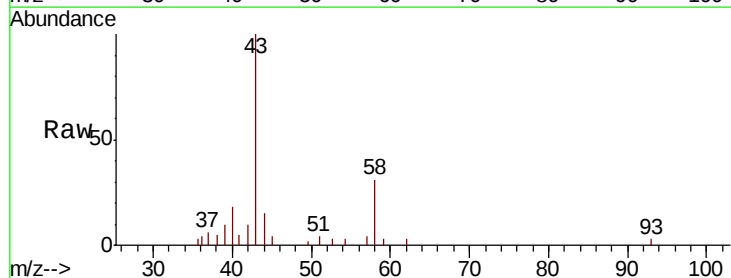
Acq: 15 Apr 2019 18:42

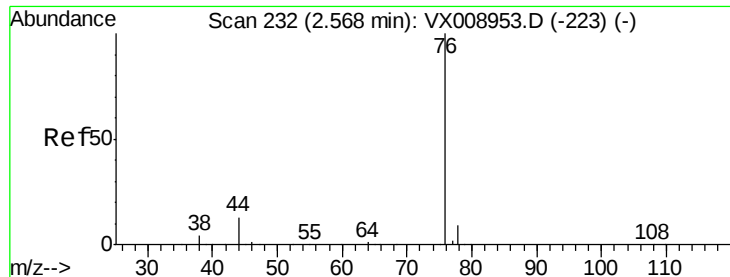
Tgt Ion: 43 Resp: 4174

Ion Ratio Lower Upper

43 100

58 31.4 24.8 37.2





#17

Carbon Disulfide

Concen: 1.332 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

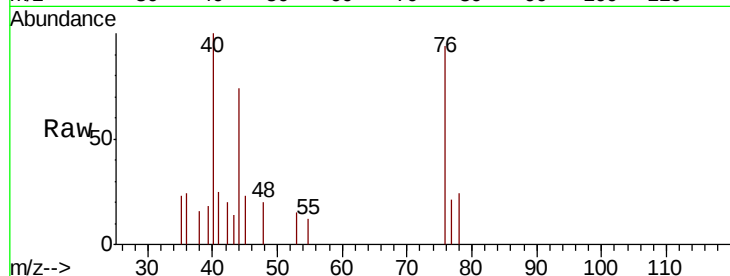
ClientSampleId :

Tot Ion: 76 Resp: 691

Ion Ratio Lower Upper

76 100

78 25.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

200

100

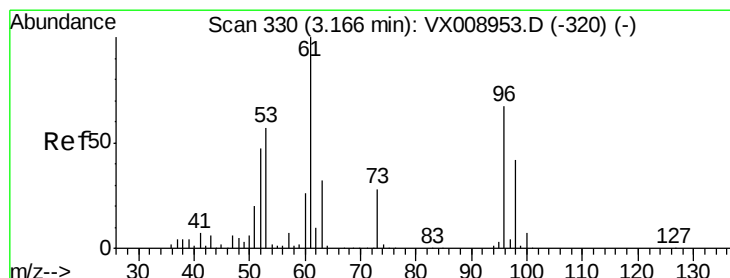
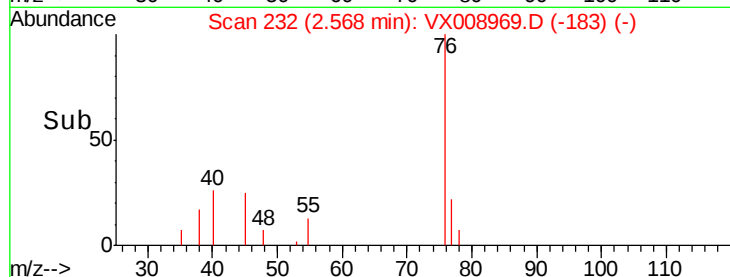
0

2.50

2.55

2.60

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.217 ug/l

RT: 3.18 min Scan# 332

Delta R.T. 0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

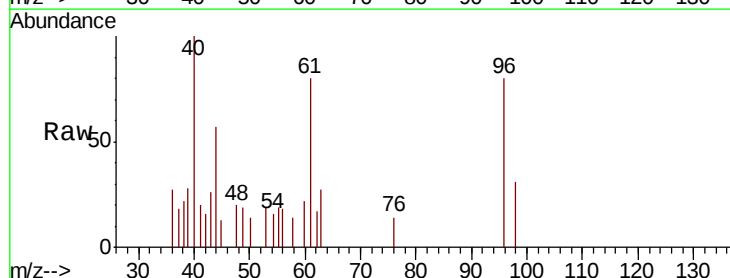
Tgt Ion: 96 Resp: 669

Ion Ratio Lower Upper

96 100

61 82.3 120.3 180.5#

98 39.1 50.2 75.2#



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

500

400

300

200

100

0

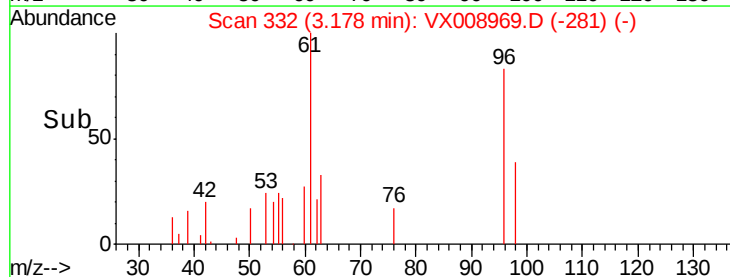
3.10

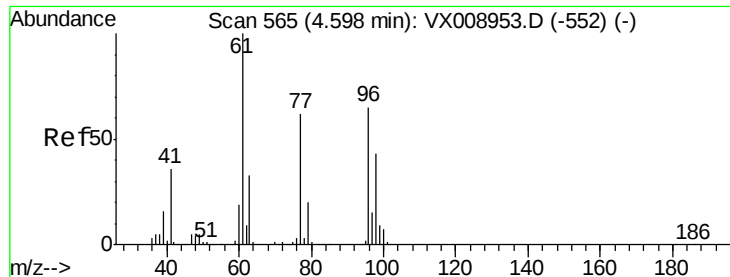
3.15

3.20

3.25

Time-->



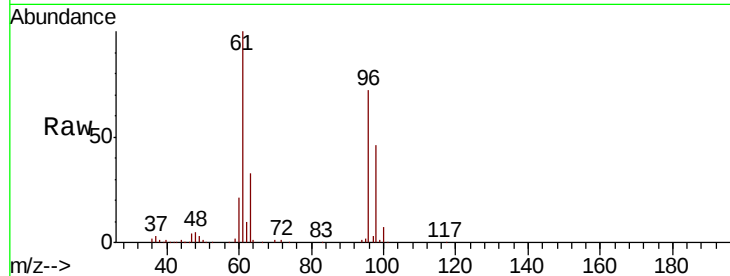


#27

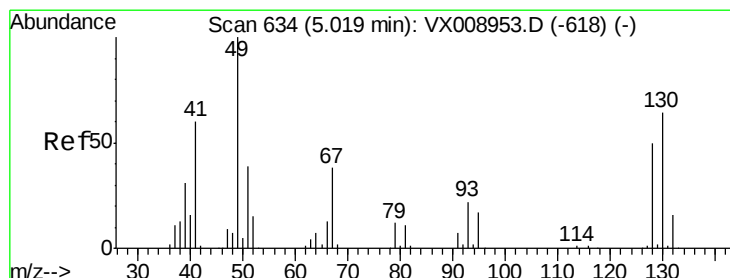
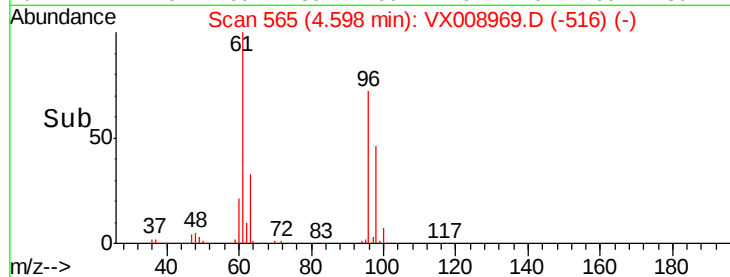
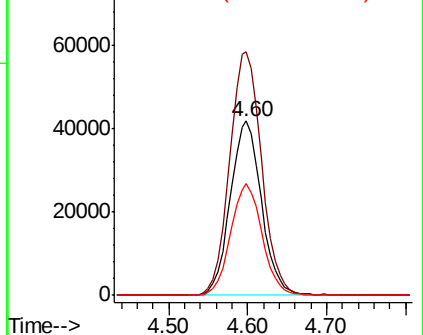
cis-1,2-Dichloroethene
 Concen: 32.755 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	322.0
98	64.7	0.0	128.4



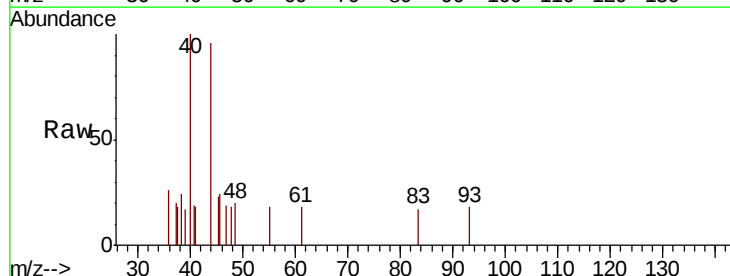
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



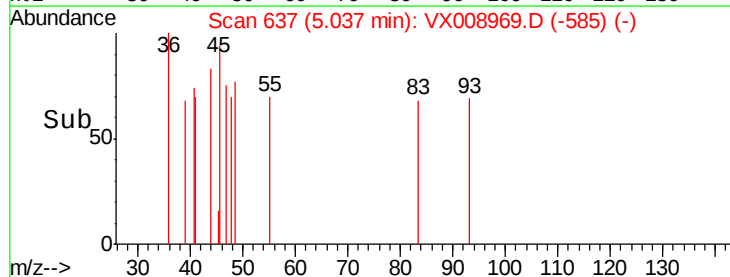
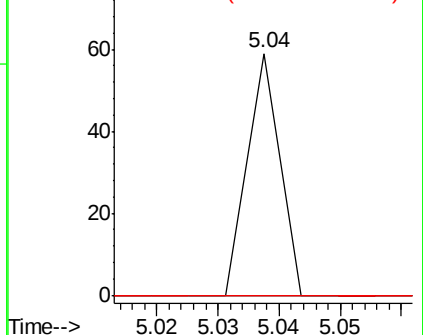
#28

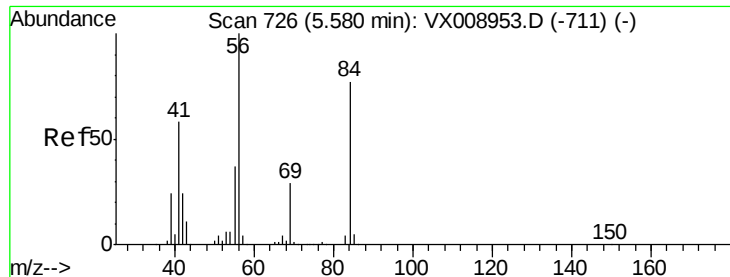
Bromochloromethane
 Concen: Below Cal
 RT: 5.04 min Scan# 637
 Delta R.T. 0.02 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Tgt 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

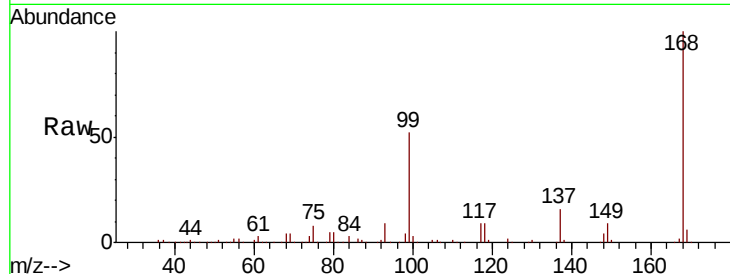




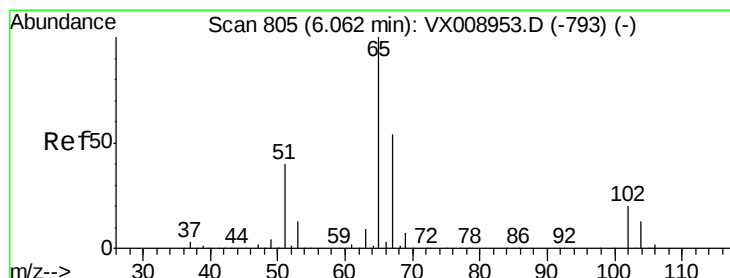
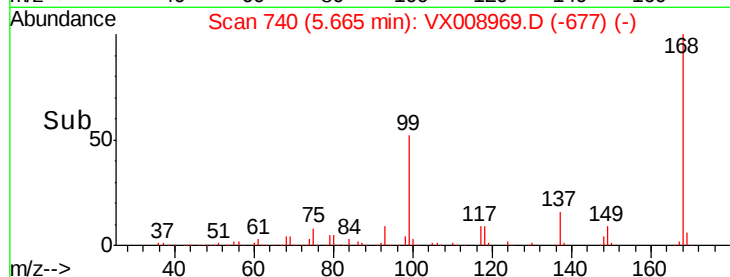
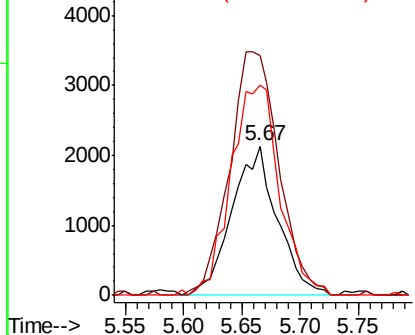
#31
Cyclohexane
Concen: 0.955 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 5790
Ion Ratio Lower Upper
56 100
69 160.7 23.3 34.9#
84 140.7 61.7 92.5#

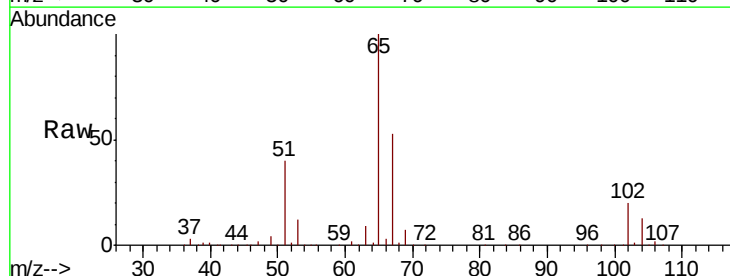


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

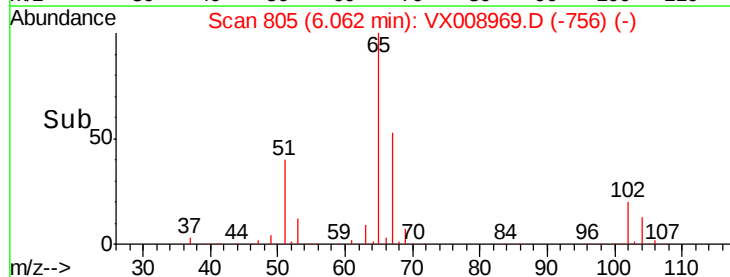
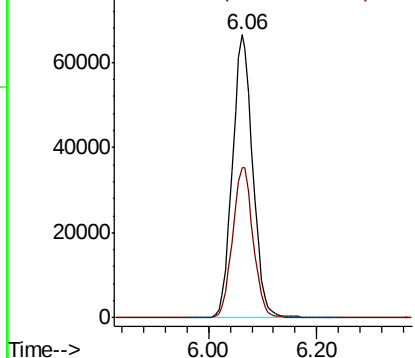


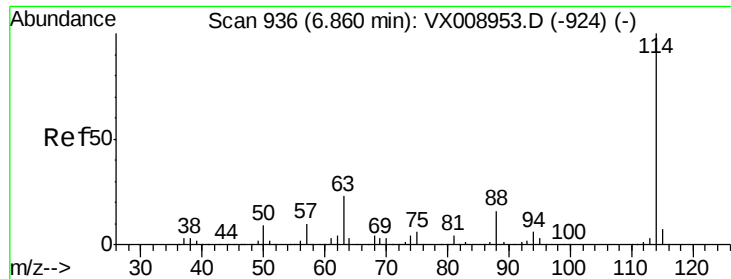
#33
1,2-Dichloroethane-d4
Concen: 45.677 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Tgt Ion: 65 Resp: 173863
Ion Ratio Lower Upper
65 100
67 53.8 0.0 108.6



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

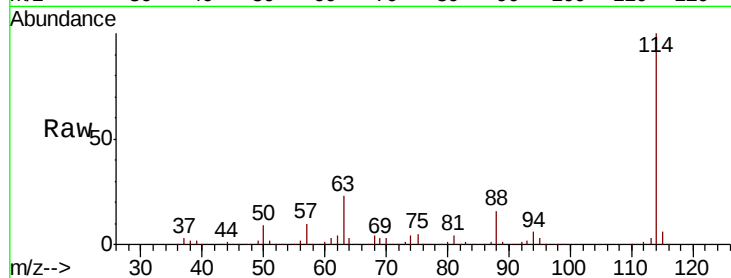




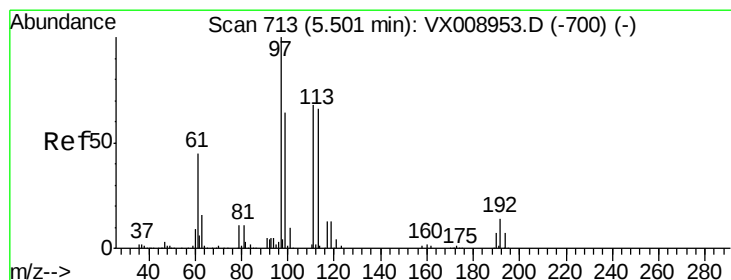
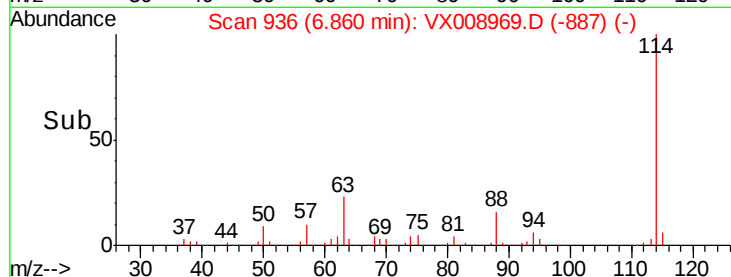
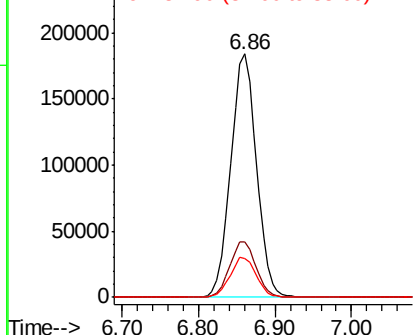
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 429788
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 46.0
 88 16.0 0.0 32.6

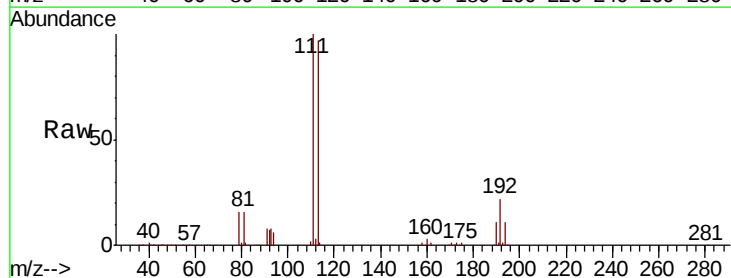


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

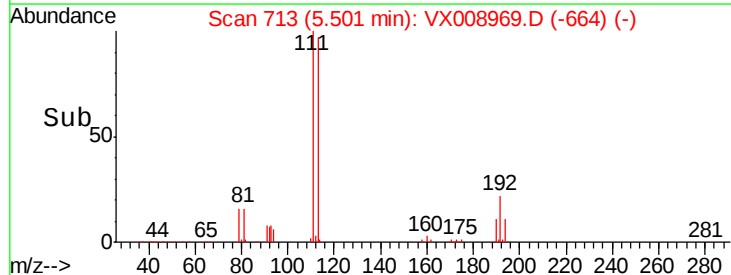
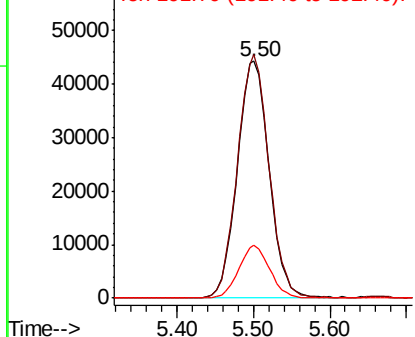


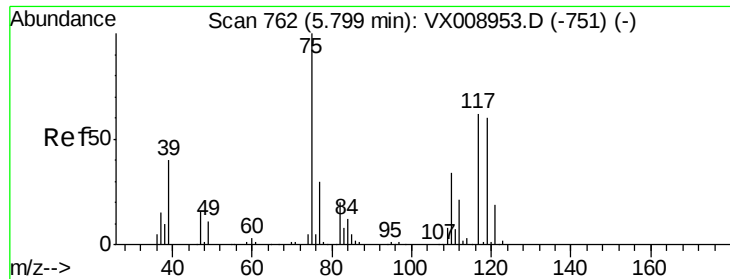
#35
 Dibromofluoromethane
 Concen: 46.418 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Tgt Ion:113 Resp: 128035
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.9 124.3
 192 21.6 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: 4.792 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

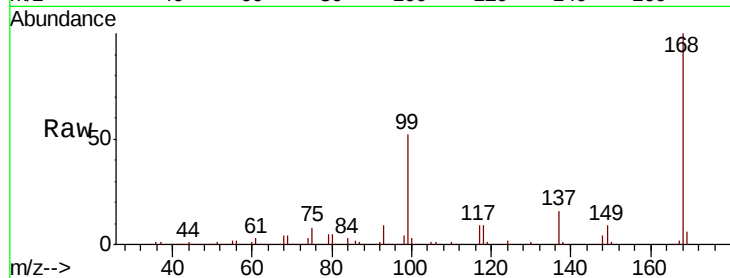
Tot Ion: 75 Resp: 21302

Ion Ratio Lower Upper

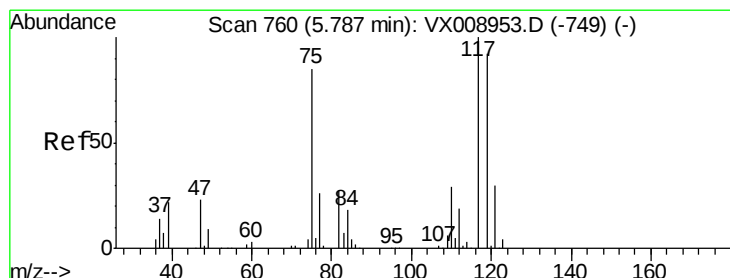
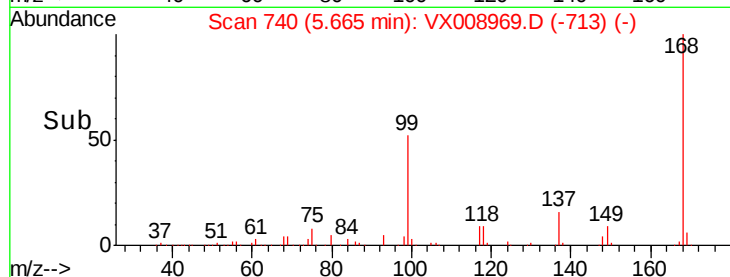
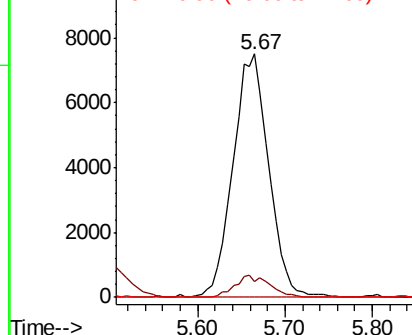
75 100

110 8.7 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: 6.750 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

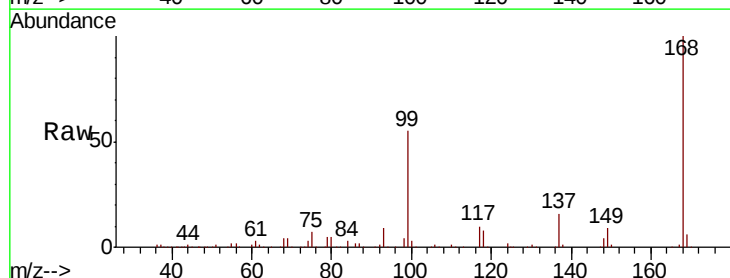
Tgt Ion: 117 Resp: 25434

Ion Ratio Lower Upper

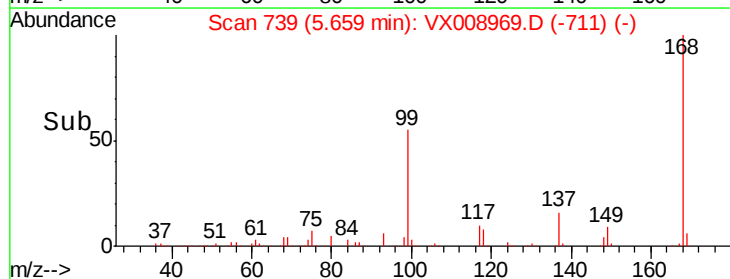
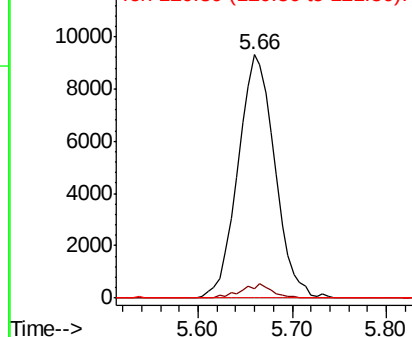
117 100

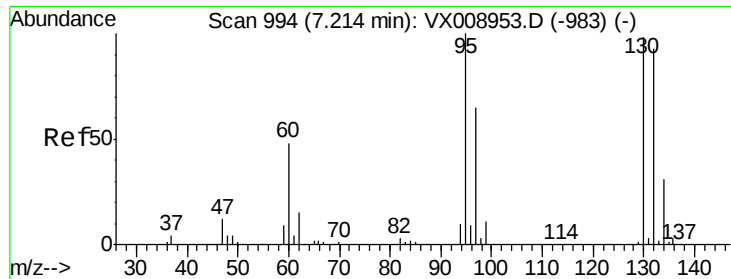
119 4.0 73.8 110.8#

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: 2.138 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

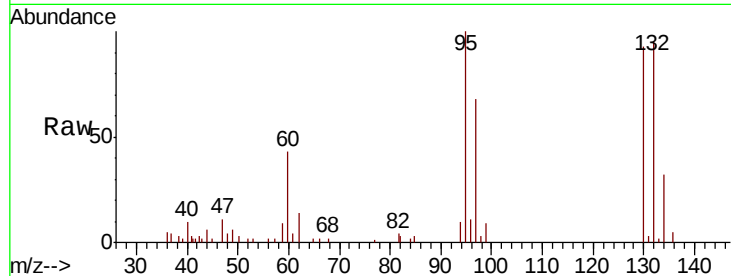
ClientSampleId :

Tot Ion:130 Resp: 6869

Ion Ratio Lower Upper

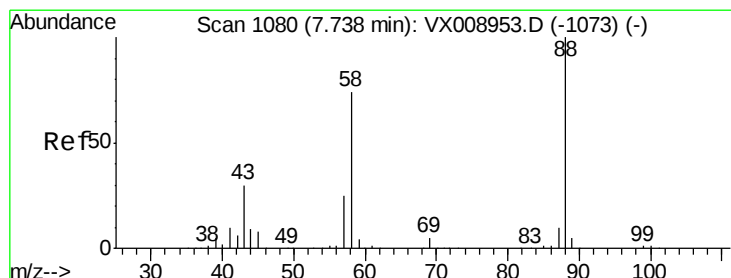
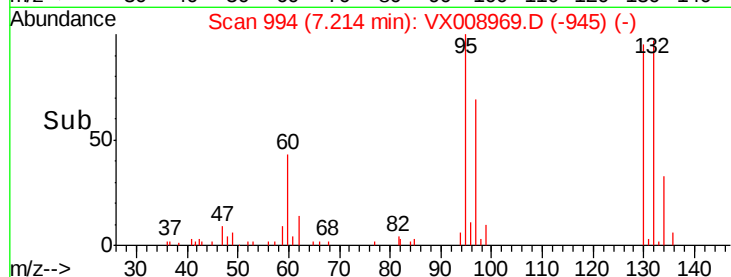
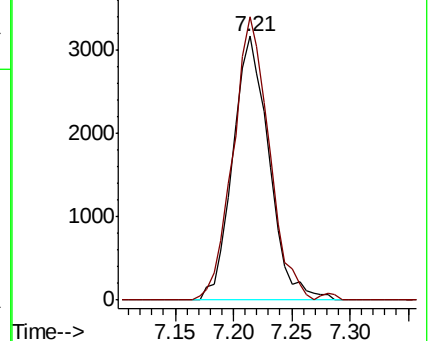
130 100

95 107.2 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.258 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

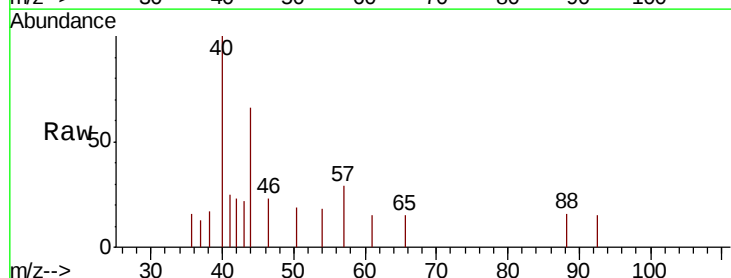
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 659.1 29.3 43.9#

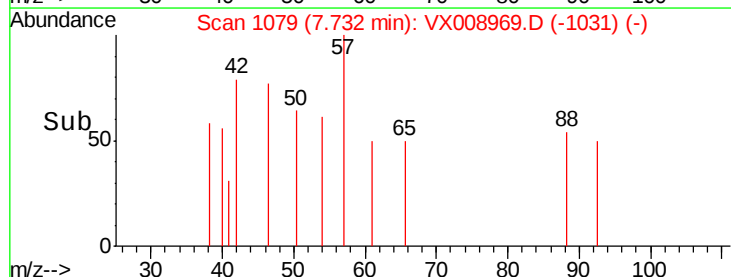
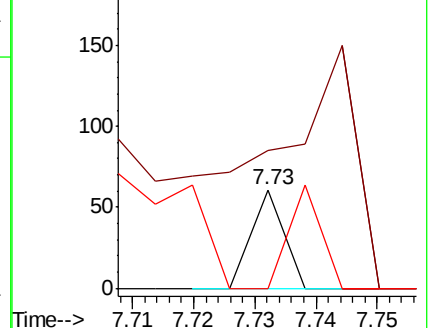
58 104.5 62.6 93.8#

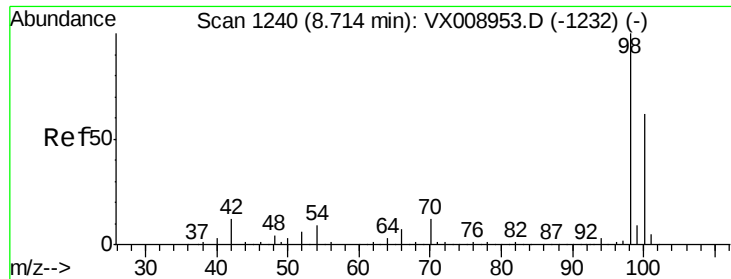


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

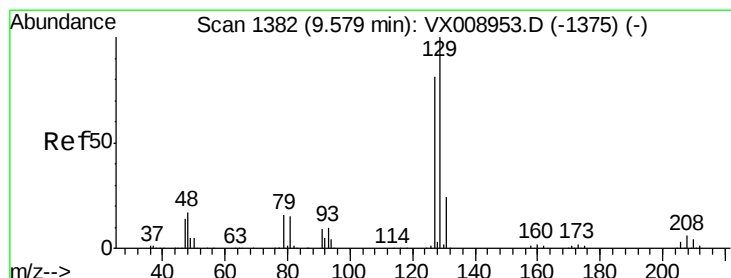
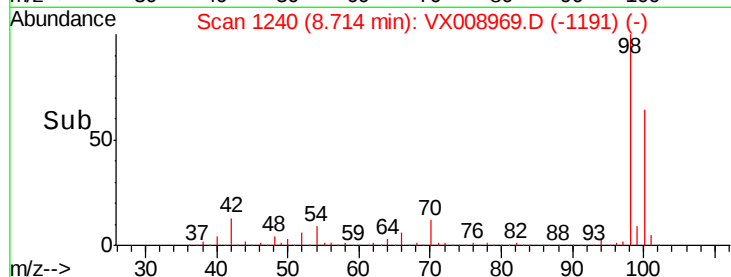
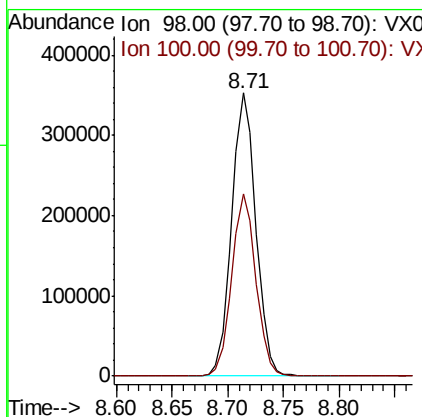
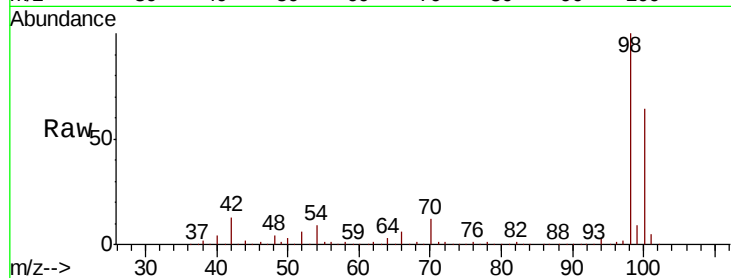




#50
Toluene-d8
Concen: 48.289 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

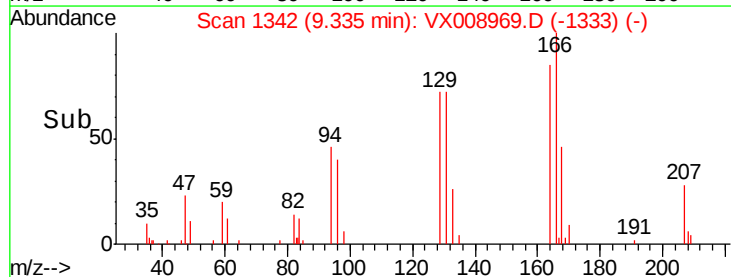
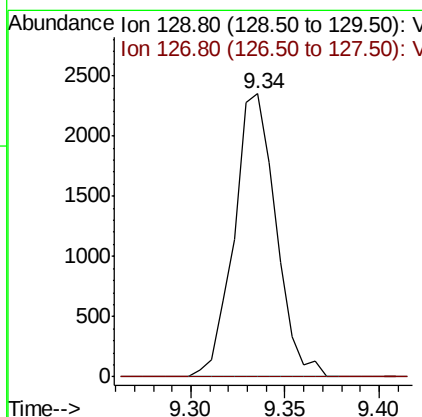
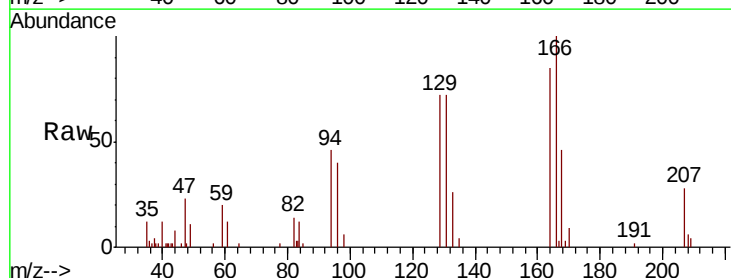
Instrument :
MSVOA_X
ClientSampleId :

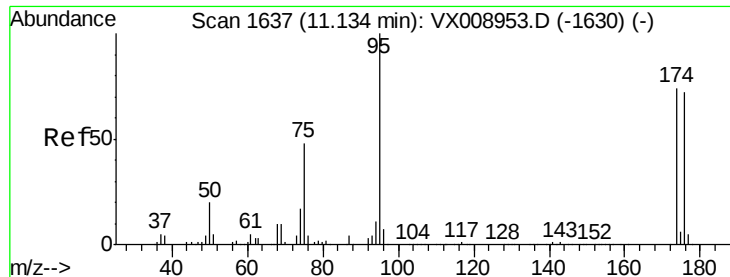
Tot Ion: 98 Resp: 531188
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.2



#60
Dibromochloromethane
Concen: 1.210 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Tgt Ion:129 Resp: 3613
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 44.578 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

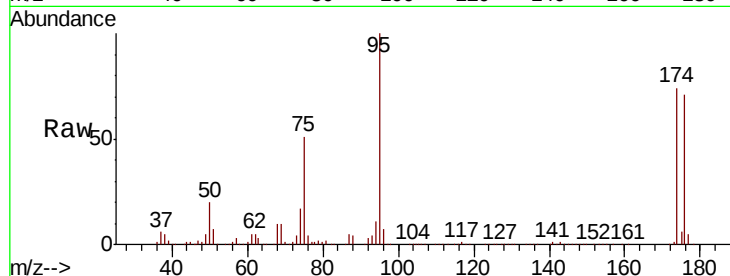
Tot Ion: 95 Resp: 173099

Ion Ratio Lower Upper

95 100

174 78.7 0.0 159.6

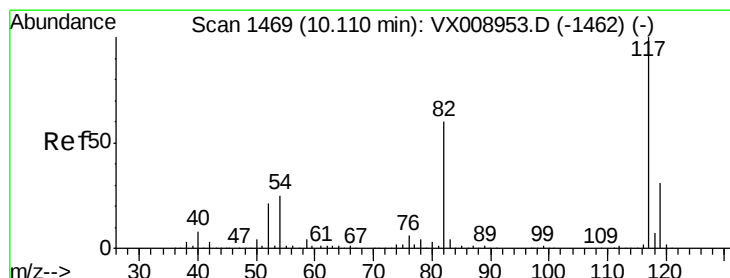
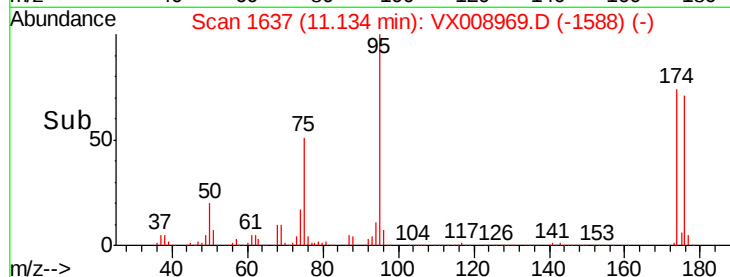
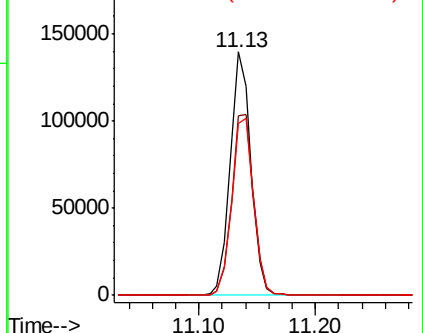
176 76.8 0.0 154.8



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

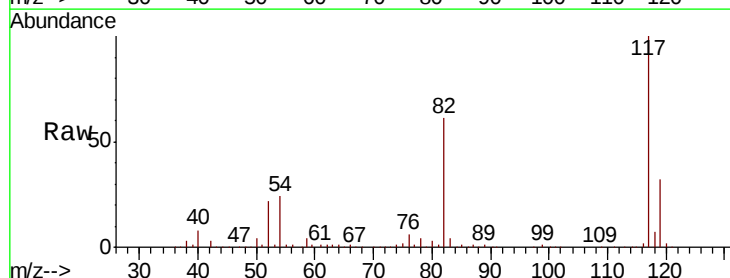
Tgt Ion: 117 Resp: 364731

Ion Ratio Lower Upper

117 100

82 61.0 48.2 72.4

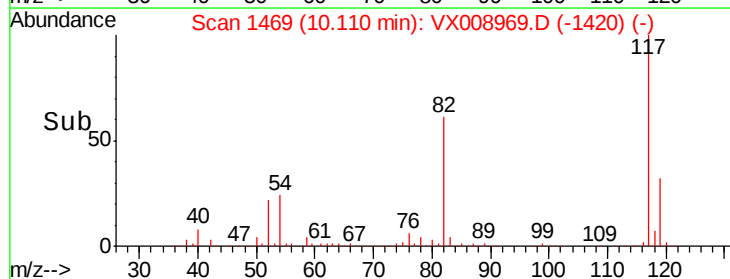
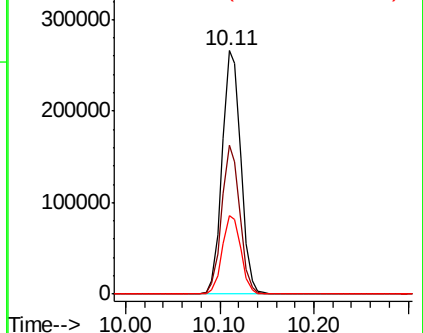
119 32.4 25.0 37.6

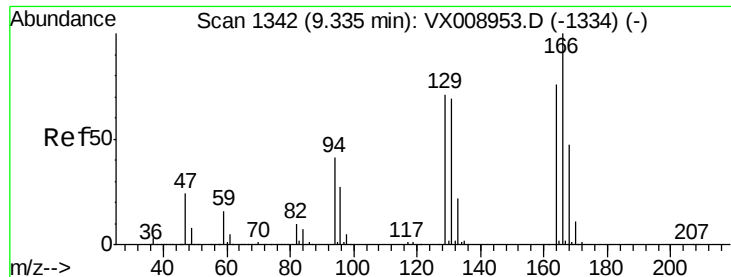


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

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

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

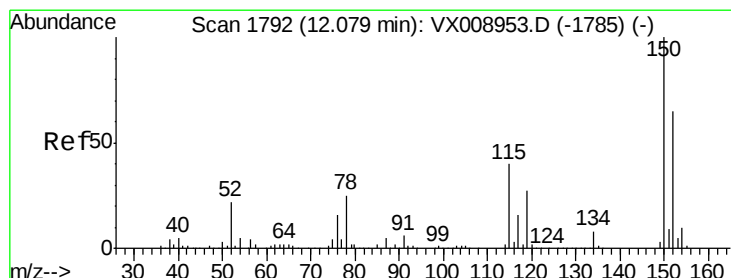
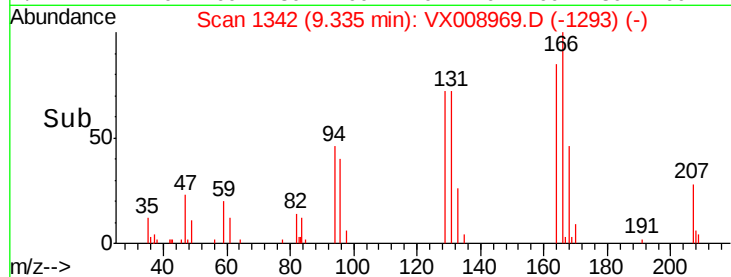
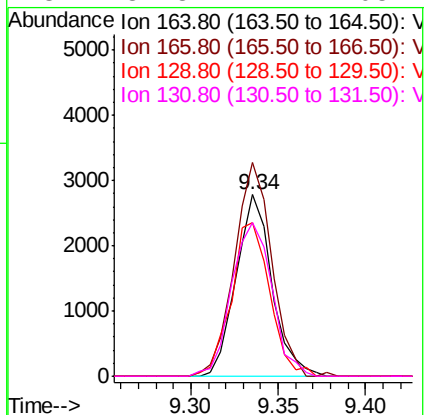
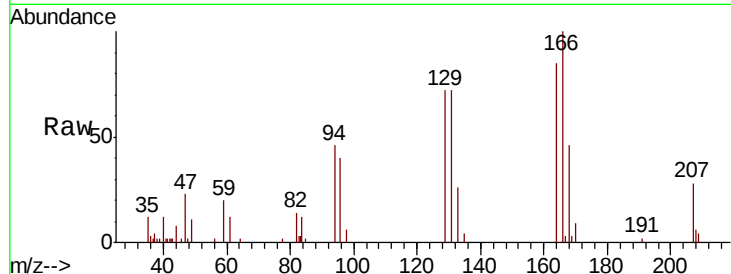




#64
Tetrachloroethene
Concen: 1.430 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

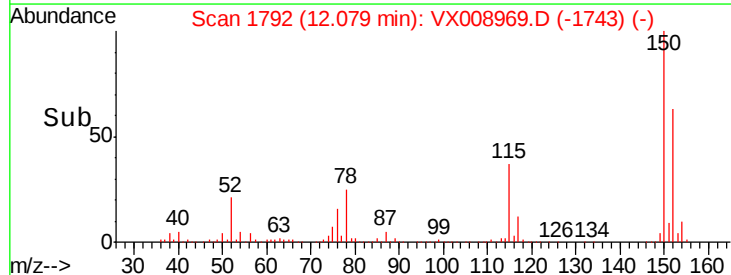
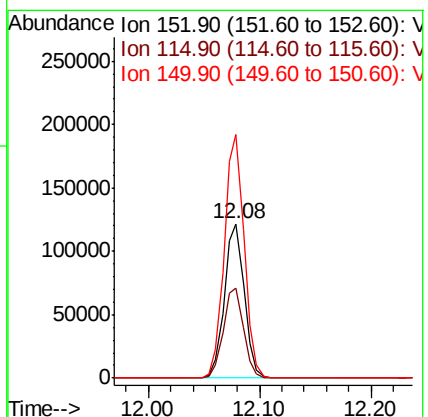
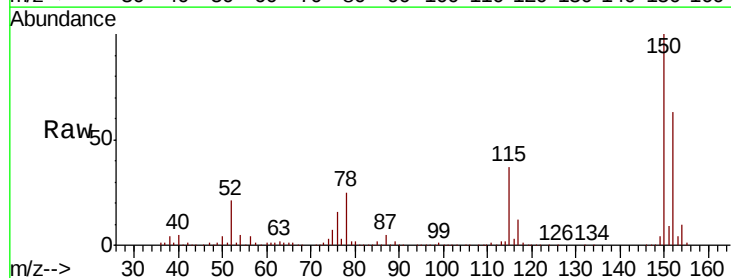
Instrument :
MSVOA_X
ClientSampled :

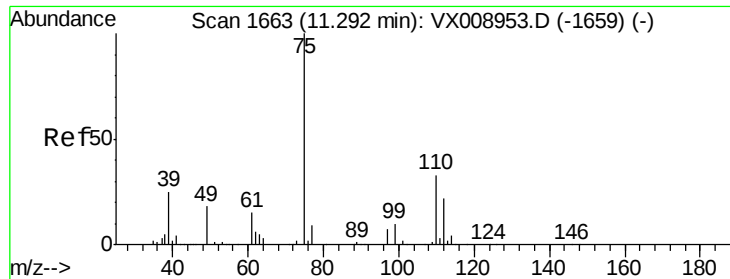
Tot Ion	Ratio	Lower	Upper
164	100		
166	117.6	105.0	157.4
129	84.4	74.2	111.4
131	84.8	72.2	108.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.3	41.4	124.2
150	157.6	0.0	349.8

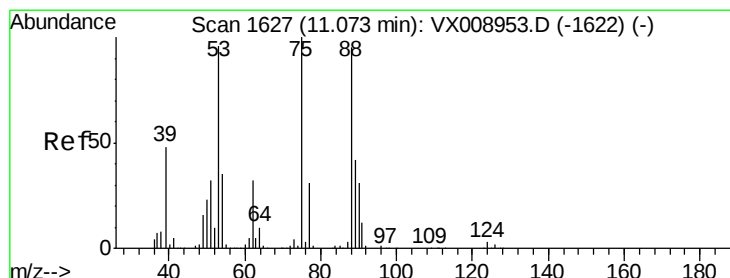
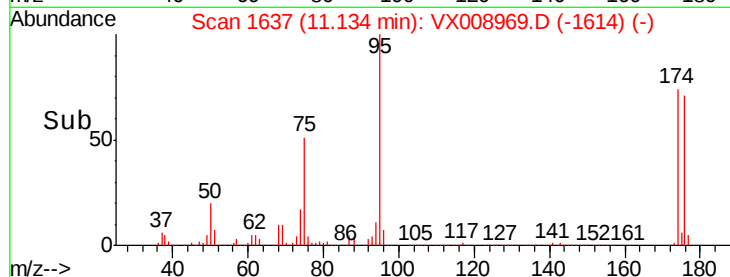
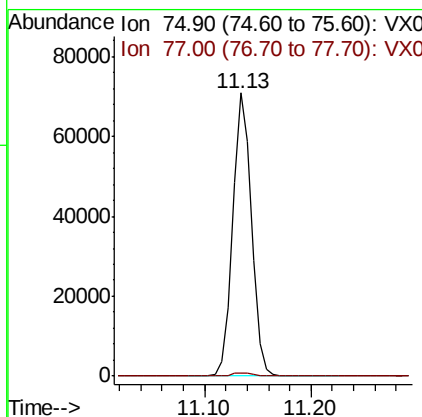
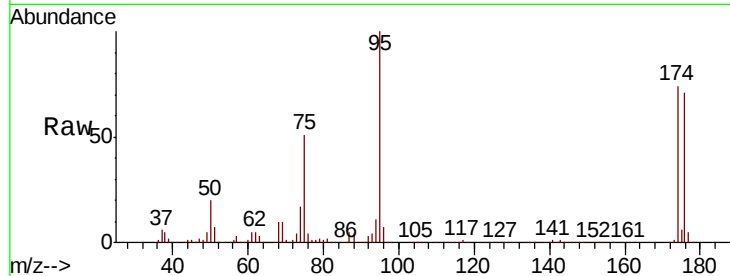




#76
 1,2,3-Trichloropropane
 Concen: 23.940 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 87793
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.7 68.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.462 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Tgt Ion: 75 Resp: 87793
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.2 117.4#
 89 0.1 36.0 54.0#

