

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062119\
 Data File : VX010398.D
 Acq On : 21 Jun 2019 20:29
 Operator : JC/SP
 Sample : K3486-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-4

Quant Time: Jun 21 23:16:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	279253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	428616	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	379406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	172113	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	131211	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
35) Dibromofluoromethane	5.50	113	129859	49.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.04%	
50) Toluene-d8	8.71	98	497091	49.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.10%	
62) 4-Bromofluorobenzene	11.13	95	164196	45.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.66%	

Target Compounds

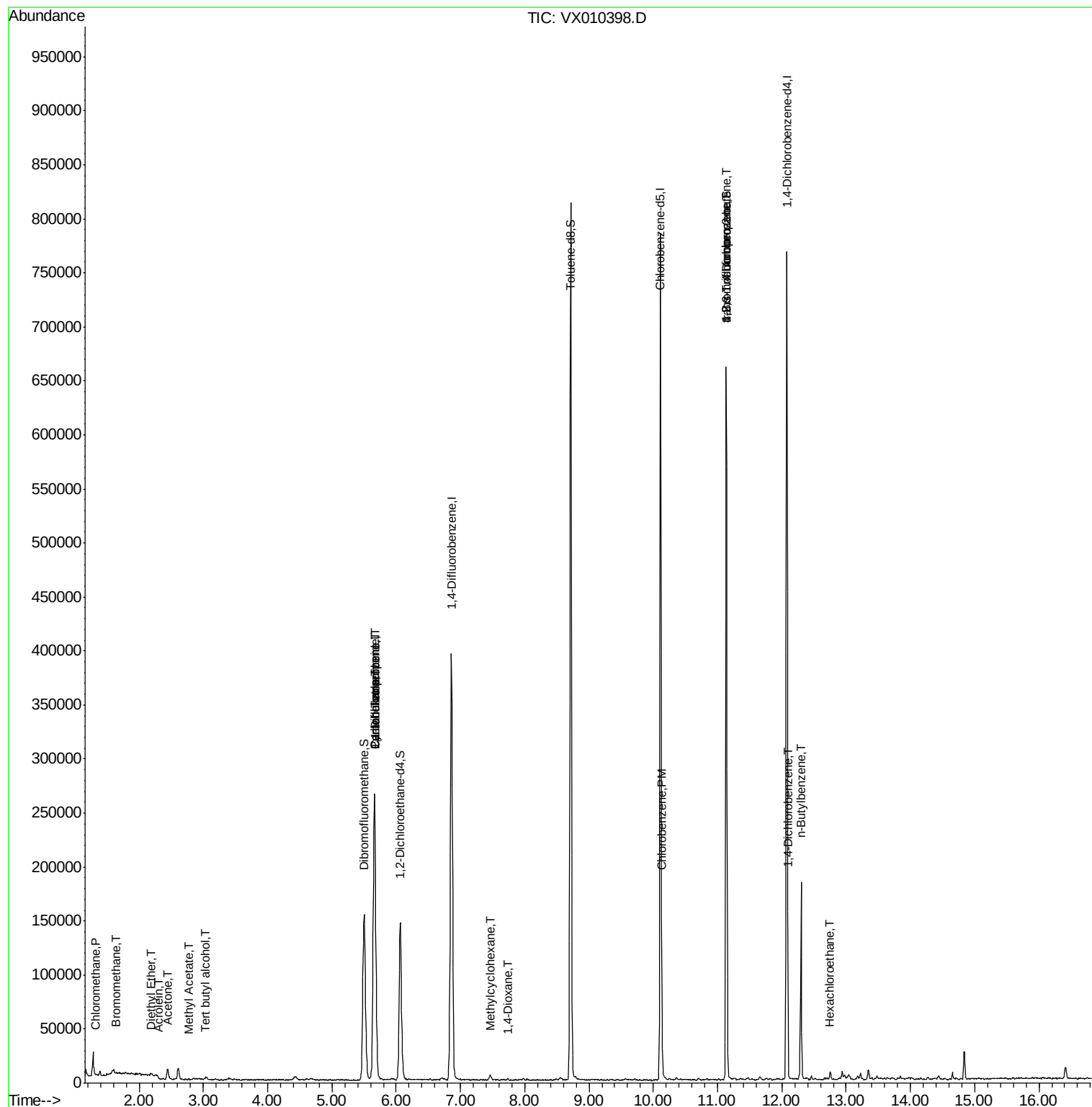
						Qvalue
3) Chloromethane	1.33	50	494	0.219	ug/l	92
5) Bromomethane	1.64	94	418	0.347	ug/l #	30
8) Diethyl Ether	2.19	74	570	0.405	ug/l	60
11) Tert butyl alcohol	3.04	59	3308	4.828	ug/l #	86
13) Acrolein	2.30	56	226	0.497	ug/l #	73
16) Acetone	2.45	43	10404	7.929	ug/l	98
18) Methyl Acetate	2.78	43	944	0.361	ug/l #	74
31) Cyclohexane	5.66	56	4722	1.249	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17653	5.183	ug/l #	42
38) Carbon Tetrachloride	5.66	117	24817	6.729	ug/l #	14
39) Methylcyclohexane	7.46	83	1741	0.389	ug/l #	88
49) 1,4-Dioxane	7.73	88	25	0.322	ug/l #	28
65) Chlorobenzene	10.13	112	9147	1.188	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	76669	24.445	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	76669	57.028	ug/l #	16
88) 1,4-Dichlorobenzene	12.10	146	1602	0.277	ug/l #	1
89) n-Butylbenzene	12.30	91	10611	1.191	ug/l #	43
90) Hexachloroethane	12.76	117	2899	1.599	ug/l #	5

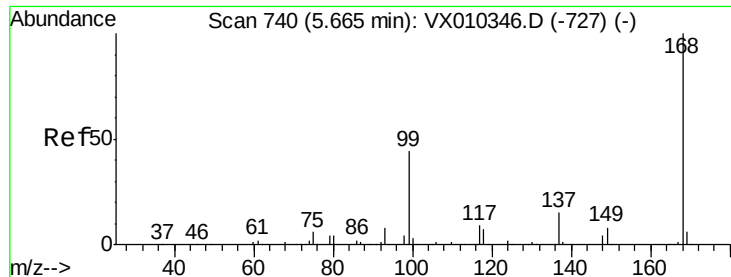
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010398.D

Acq: 21 Jun 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

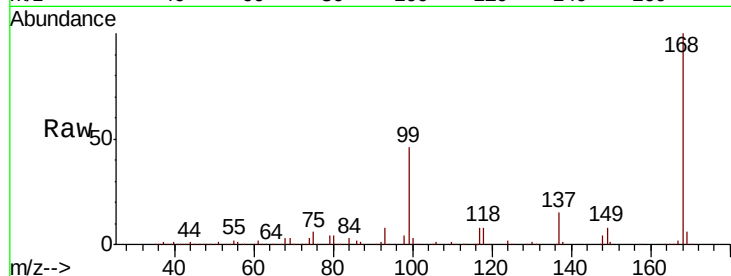
W-4

Tot Ion:168 Resp: 279253

Ion Ratio Lower Upper

168 100

99 46.5 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

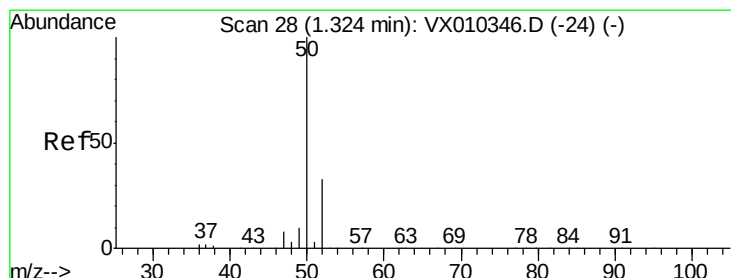
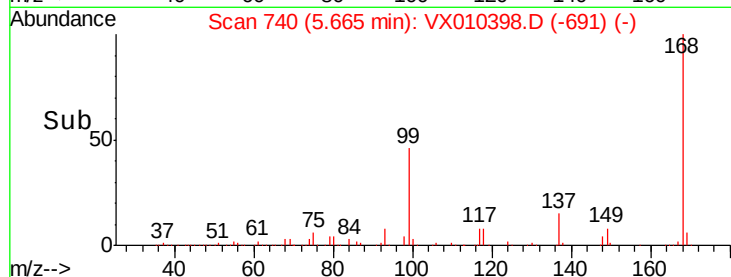
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.219 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010398.D

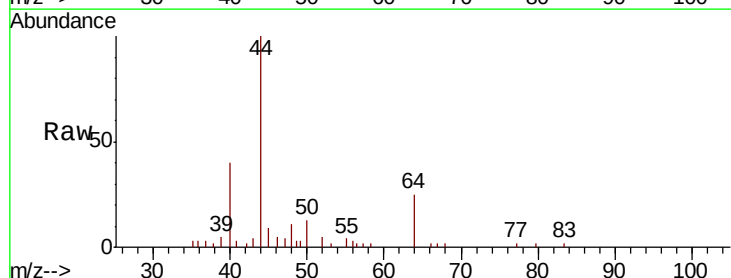
Acq: 21 Jun 2019 20:29

Tgt Ion: 50 Resp: 494

Ion Ratio Lower Upper

50 100

52 28.3 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

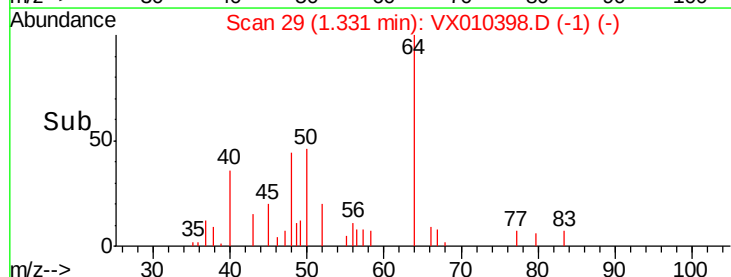
300

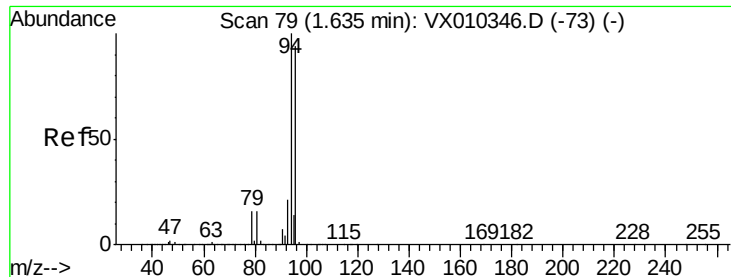
200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.347 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX010398.D

Acq: 21 Jun 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

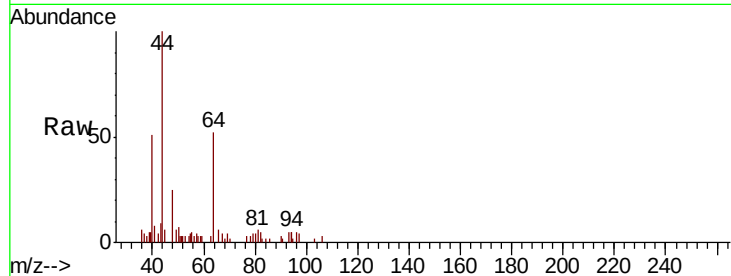
W-4

Tot Ion: 94 Resp: 418

Ion Ratio Lower Upper

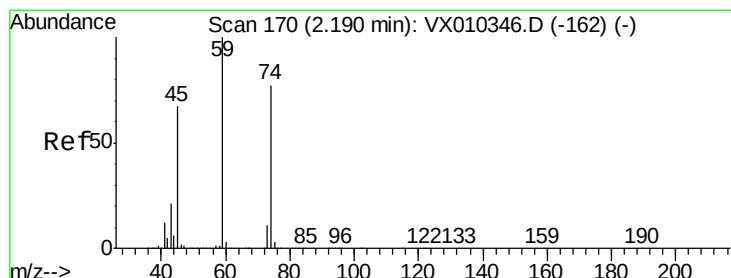
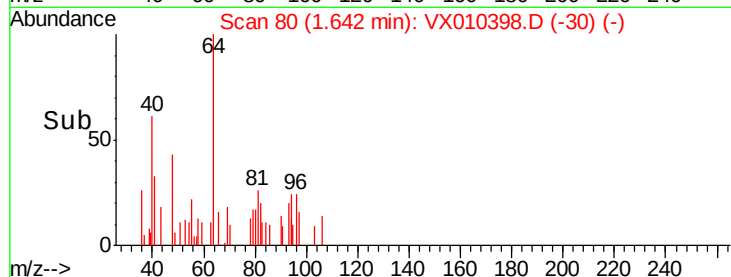
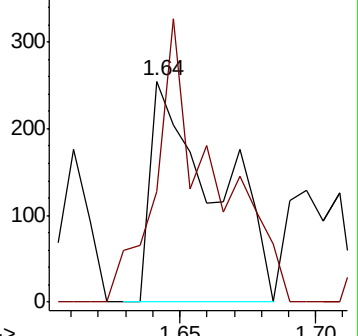
94 100

96 26.7 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.405 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX010398.D

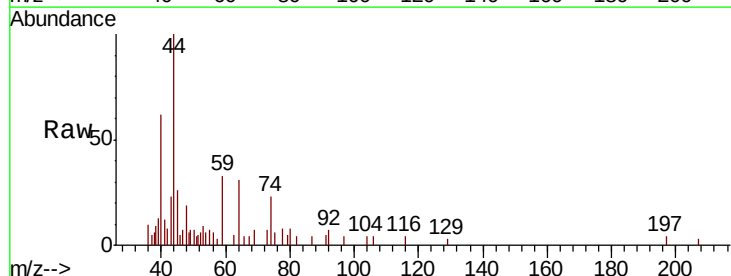
Acq: 21 Jun 2019 20:29

Tgt Ion: 74 Resp: 570

Ion Ratio Lower Upper

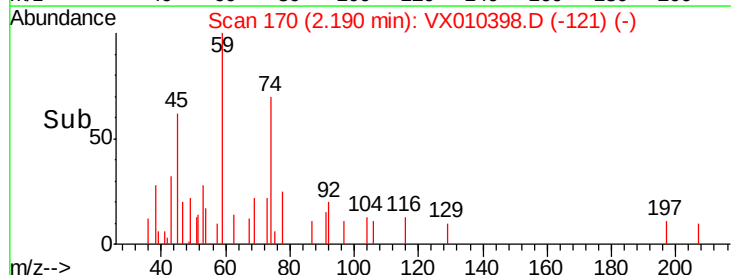
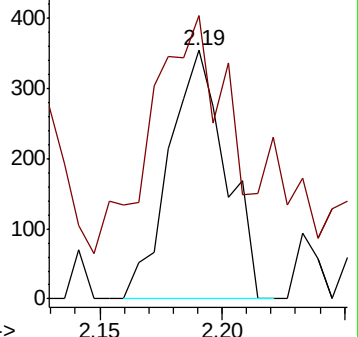
74 100

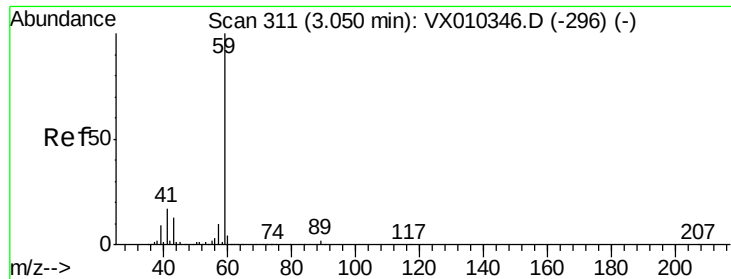
45 127.5 44.8 134.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

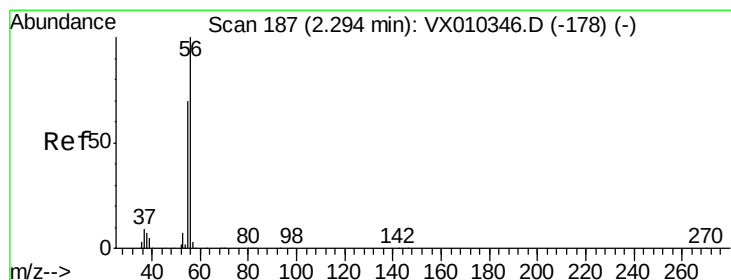
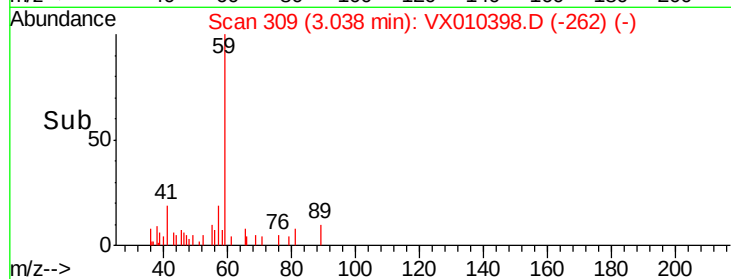
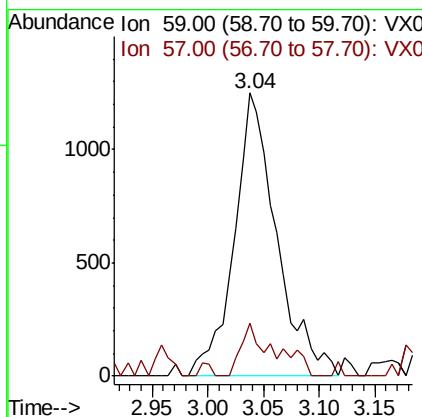
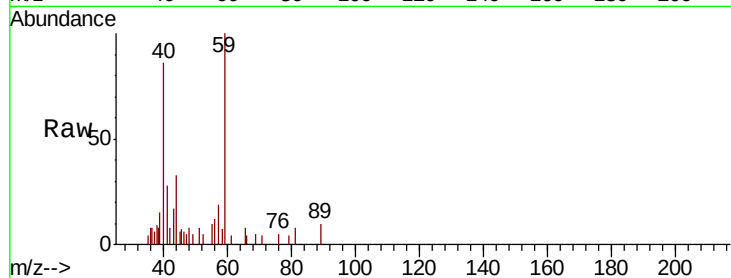




#11
Tert butyl alcohol
Concen: 4.828 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

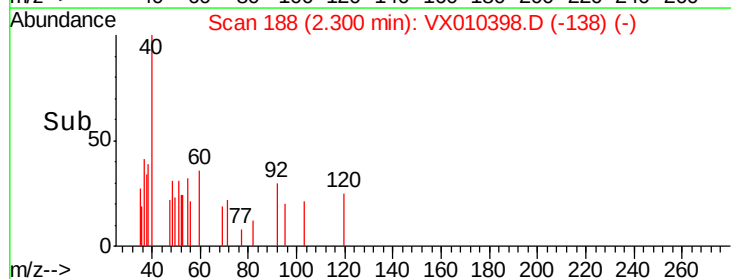
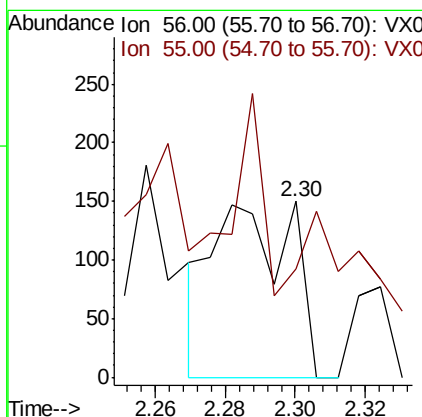
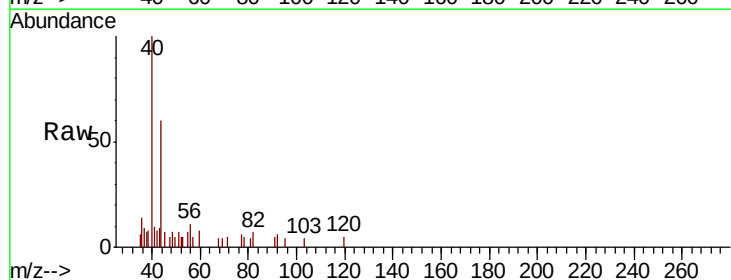
Instrument :
MSVOA_X
ClientSampled :
W-4

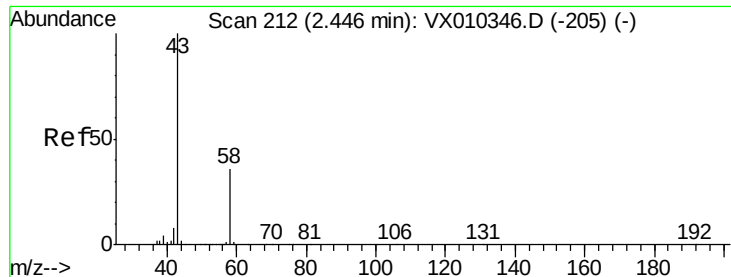
Tot Ion: 59 Resp: 3308
Ion Ratio Lower Upper
59 100
57 14.8 7.7 11.5#



#13
Acrolein
Concen: 0.497 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Tgt Ion: 56 Resp: 226
Ion Ratio Lower Upper
56 100
55 48.7 56.9 85.3#





#16

Acetone

Concen: 7.929 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010398.D

Acq: 21 Jun 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

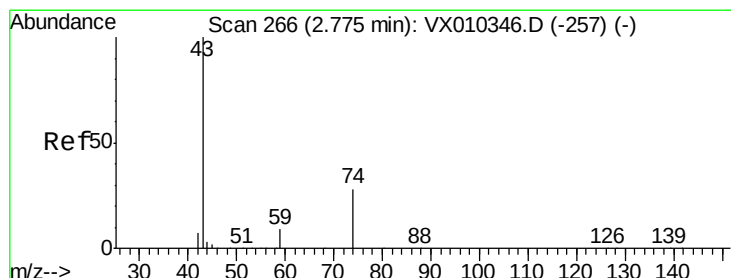
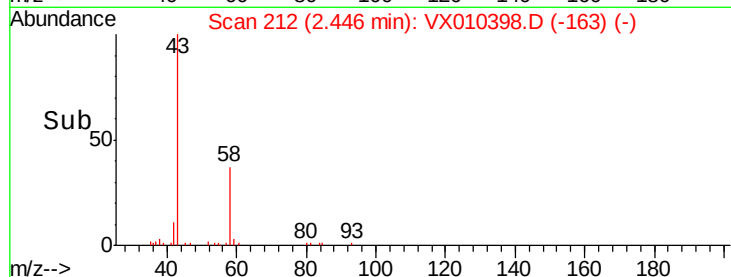
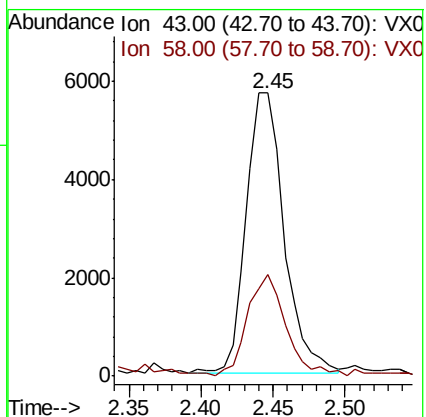
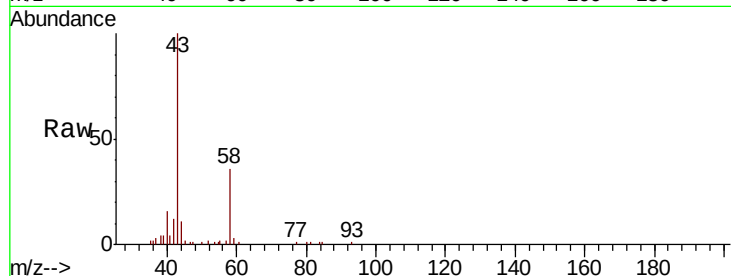
W-4

Tot Ion: 43 Resp: 10404

Ion Ratio Lower Upper

43 100

58 35.0 28.9 43.3



#18

Methyl Acetate

Concen: 0.361 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX010398.D

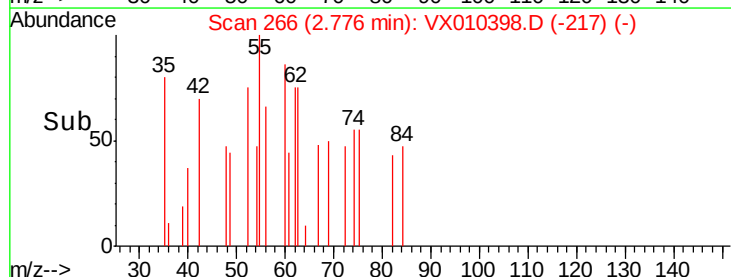
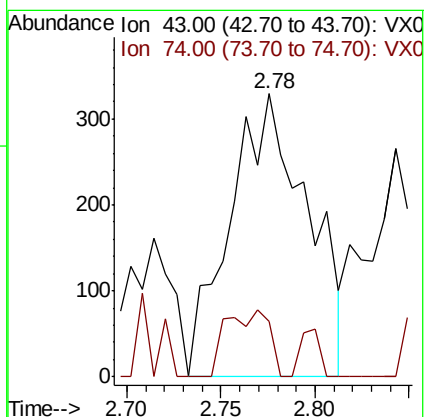
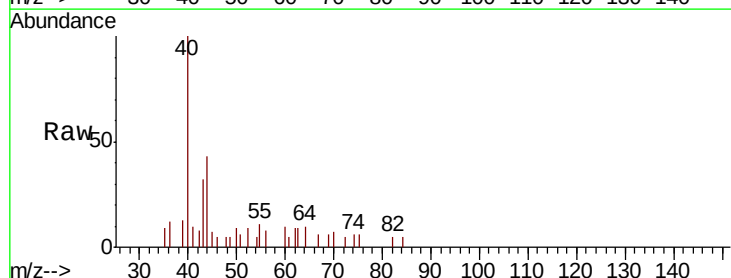
Acq: 21 Jun 2019 20:29

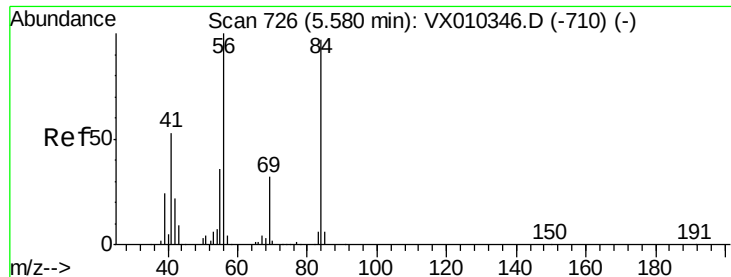
Tgt Ion: 43 Resp: 944

Ion Ratio Lower Upper

43 100

74 13.0 21.3 31.9#

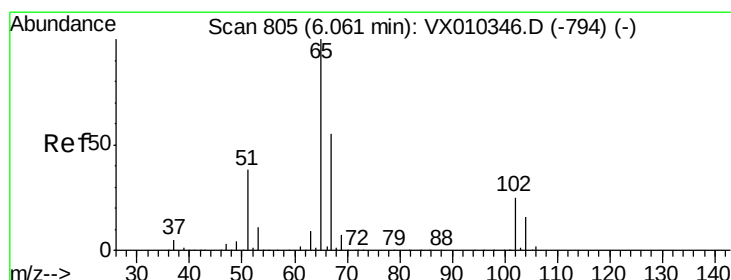
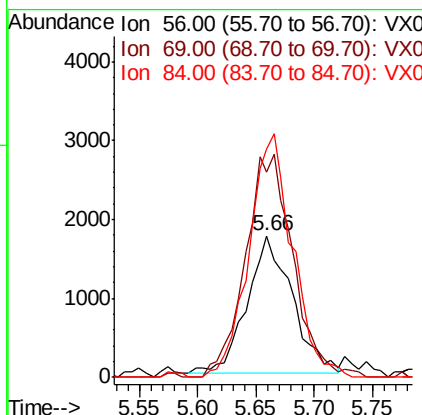
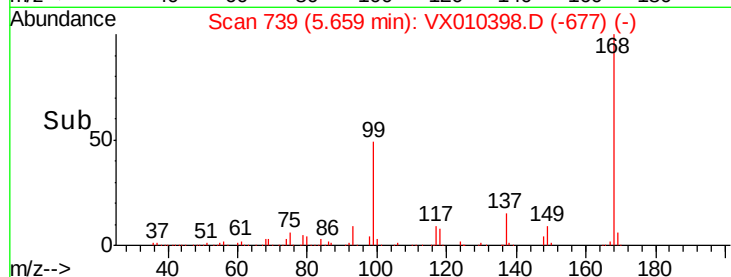
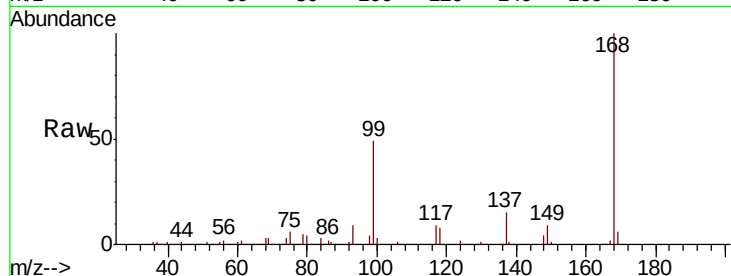




#31
Cyclohexane
Concen: 1.249 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

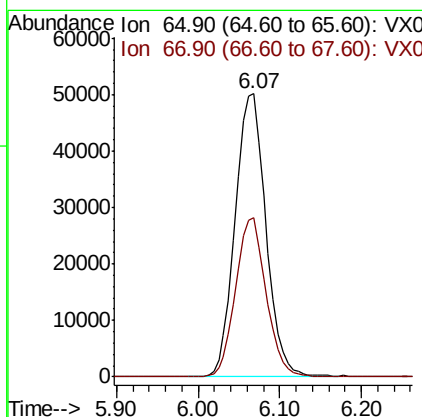
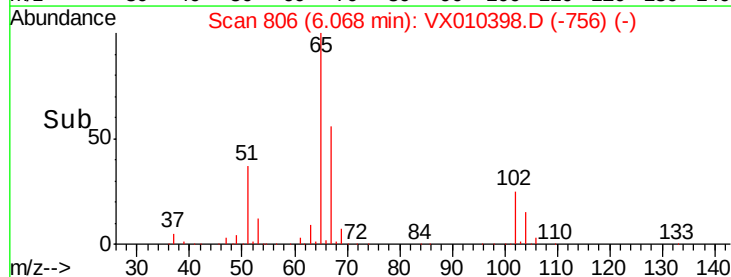
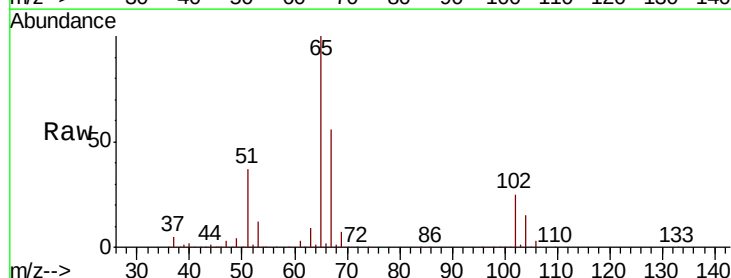
Instrument :
MSVOA_X
ClientSampleId :
W-4

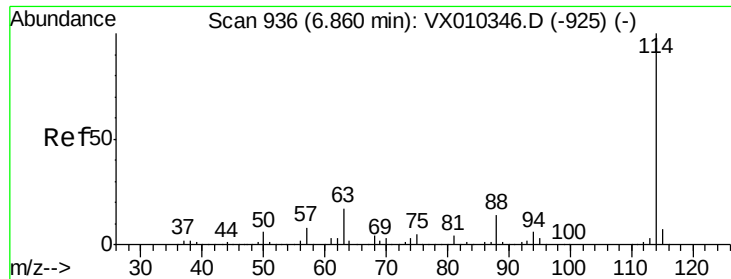
Tot Ion: 56 Resp: 4722
Ion Ratio Lower Upper
56 100
69 149.9 25.9 38.9#
84 166.1 78.0 117.0#



#33
1,2-Dichloroethane-d4
Concen: 50.114 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Tgt Ion: 65 Resp: 131211
Ion Ratio Lower Upper
65 100
67 55.6 0.0 110.2

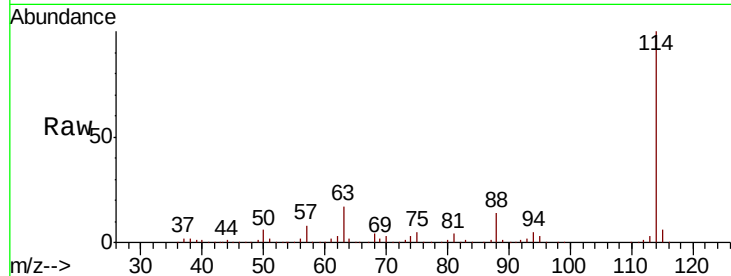




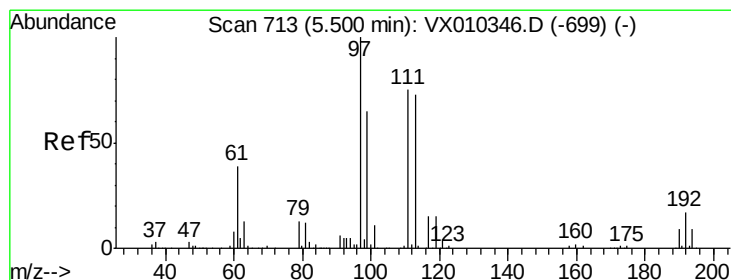
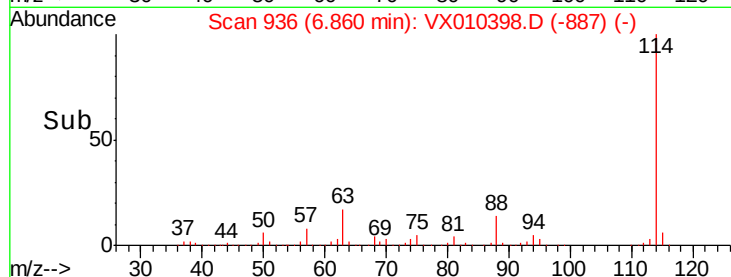
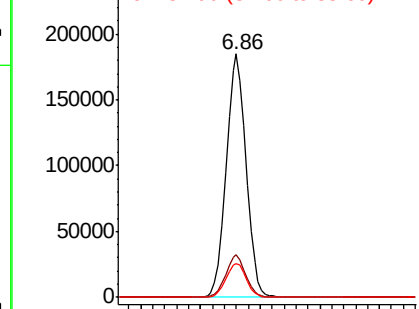
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Instrument :
MSVOA_X
ClientSampleId :
W-4

Tot Ion:114 Resp: 428616
Ion Ratio Lower Upper
114 100
63 17.4 0.0 33.8
88 14.1 0.0 27.6

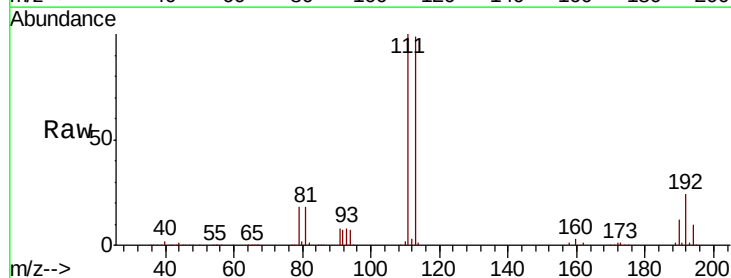


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

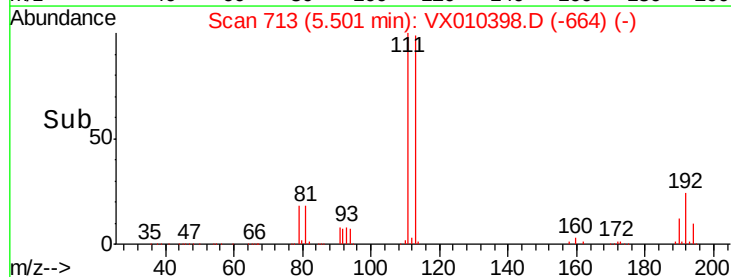
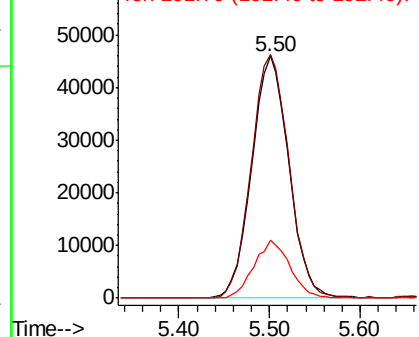


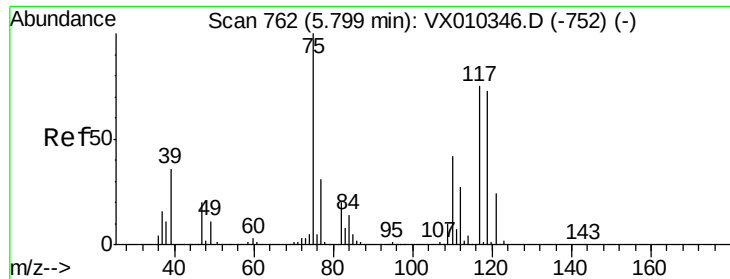
#35
Dibromofluoromethane
Concen: 49.519 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Tgt Ion:113 Resp: 129859
Ion Ratio Lower Upper
113 100
111 102.4 81.2 121.8
192 23.3 18.6 27.8



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

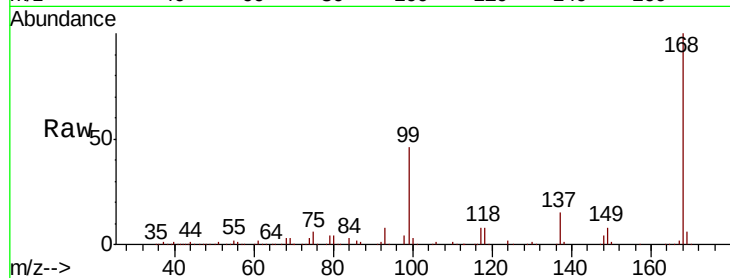




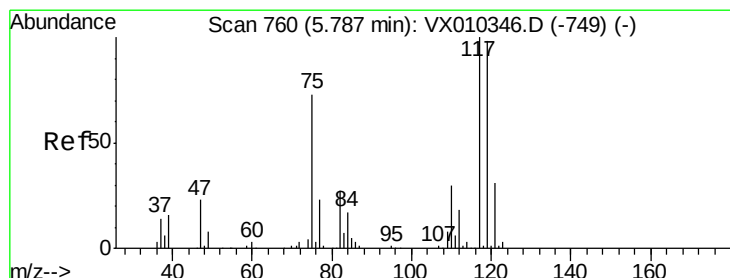
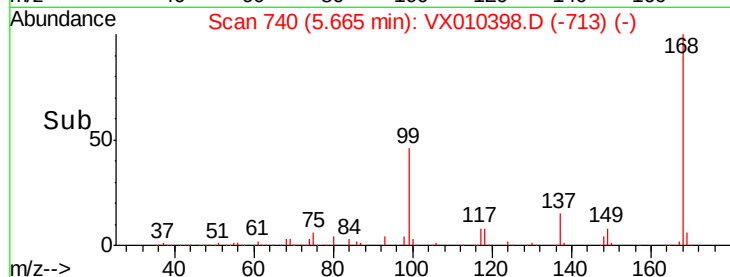
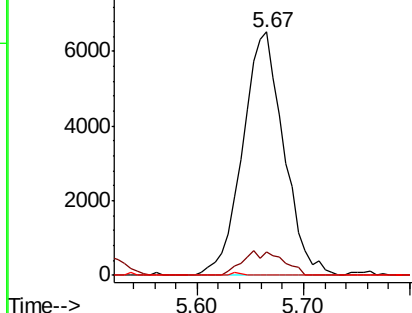
#36
 1,1-Dichloropropene
 Concen: 5.183 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX010398.D
 Acq: 21 Jun 2019 20:29

Instrument :
 MSVOA_X
 ClientSampled :
 W-4

Tot Ion	75	Resp	17653
Ion Ratio	100	Lower	Upper
75	100		
110	4.7	20.8	62.2#
77	0.0	25.4	38.0#

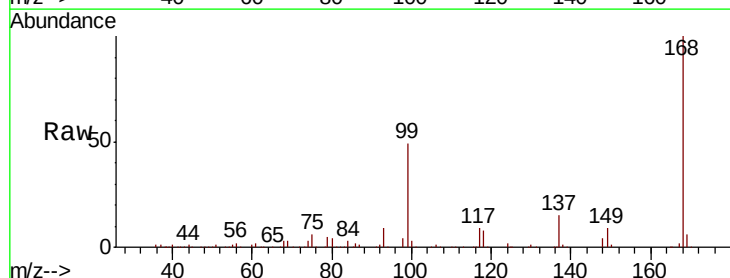


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

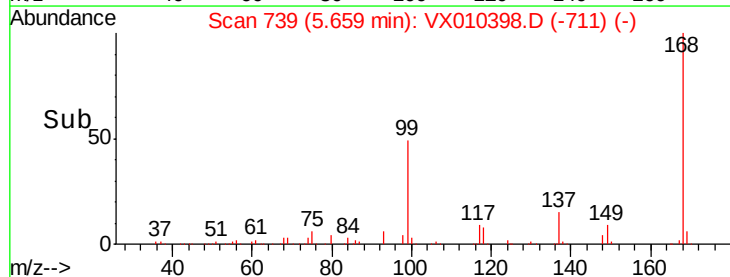
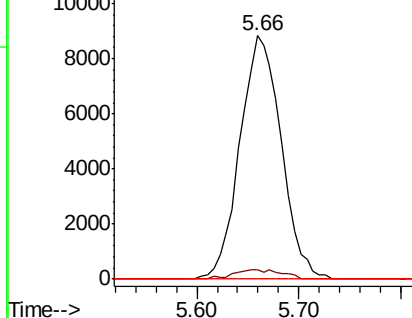


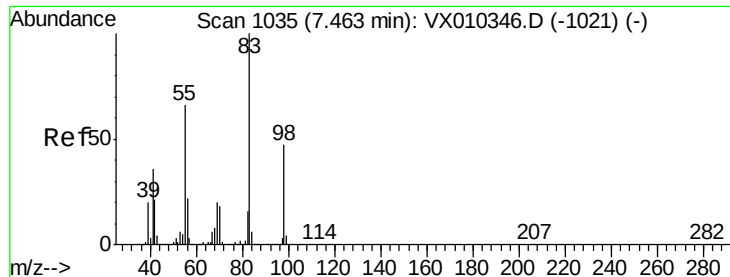
#38
 Carbon Tetrachloride
 Concen: 6.729 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010398.D
 Acq: 21 Jun 2019 20:29

Tgt Ion	117	Resp	24817
Ion Ratio	100	Lower	Upper
117	100		
119	4.0	78.2	117.4#
121	0.0	24.7	37.1#



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

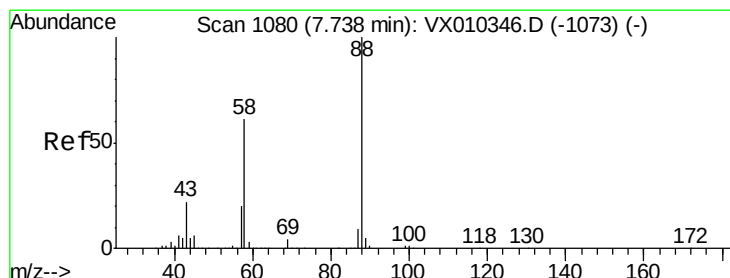
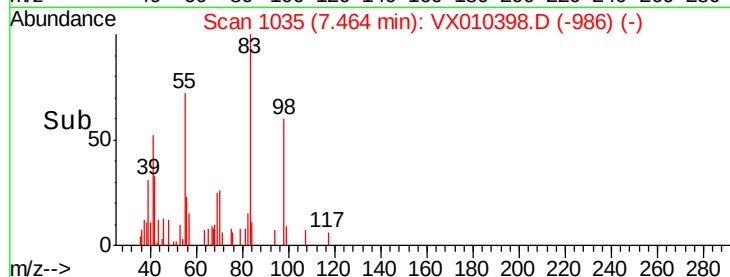
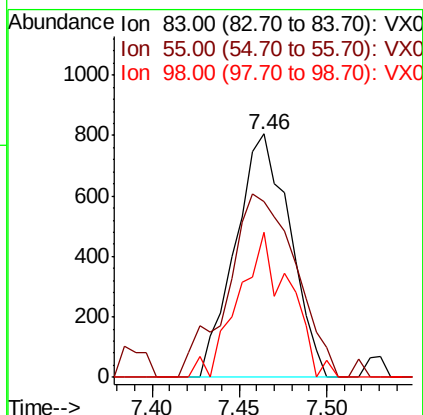
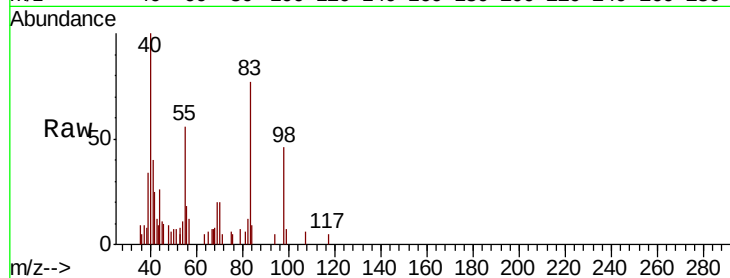




#39
Methylvlcyclohexane
Concen: 0.389 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

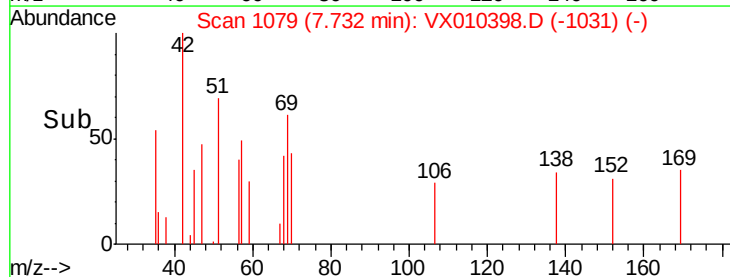
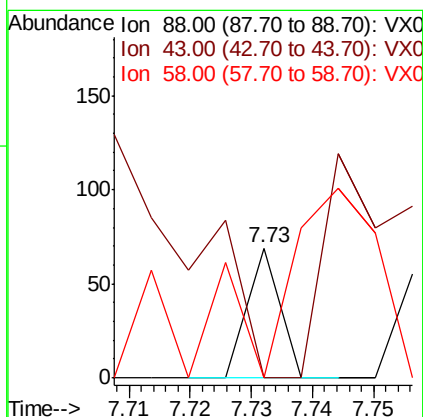
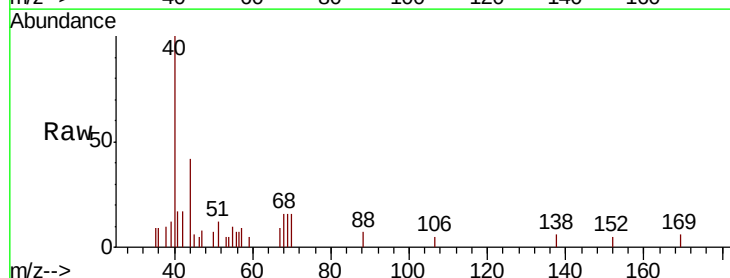
Instrument :
MSVOA_X
ClientSampled :
W-4

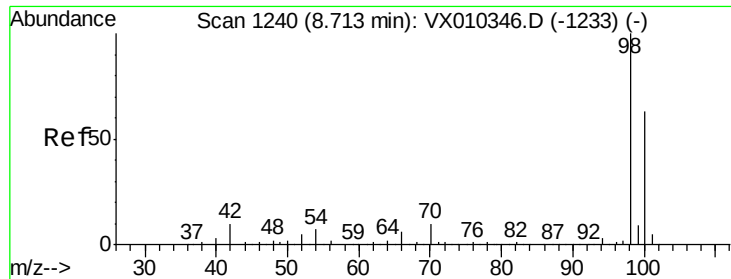
Tot Ion: 83 Resp: 1741
Ion Ratio Lower Upper
83 100
55 72.3 53.0 79.6
98 59.7 37.8 56.8#



#49
1,4-Dioxane
Concen: 0.322 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 0.0 49.5 74.3#

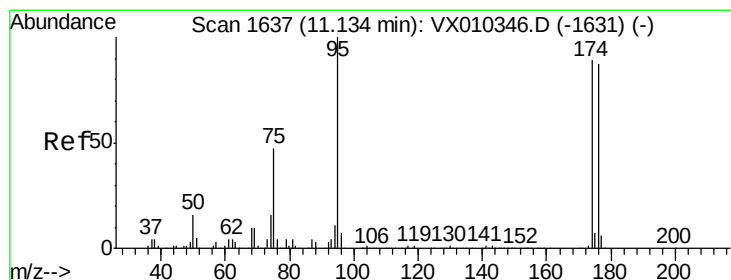
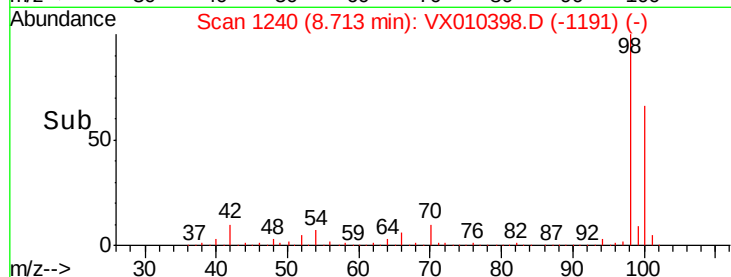
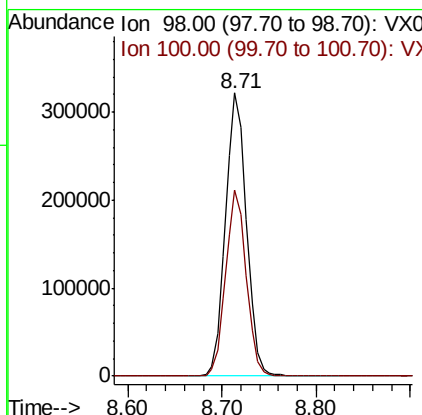
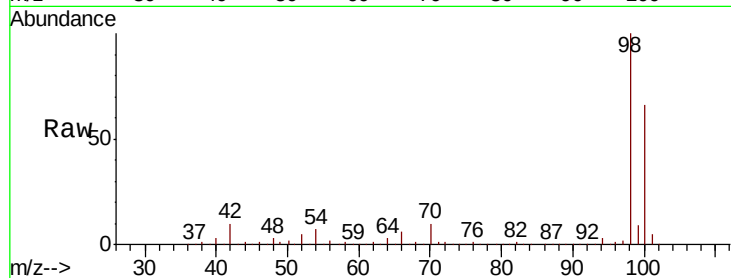




#50
Toluene-d8
Concen: 49.546 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

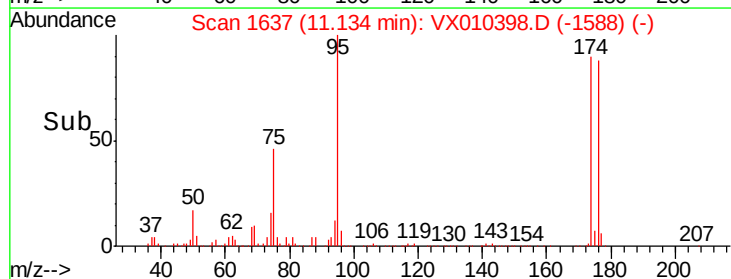
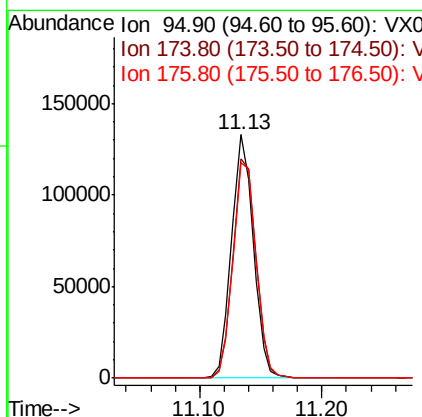
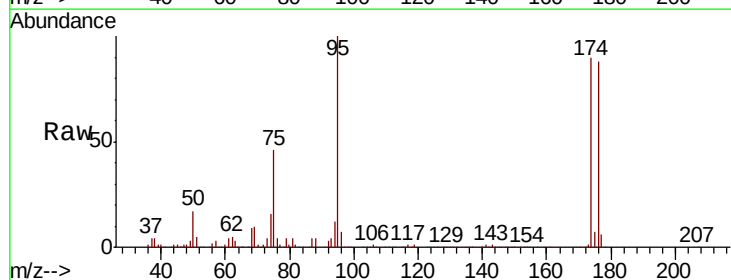
Instrument :
MSVOA_X
ClientSampleId :
W-4

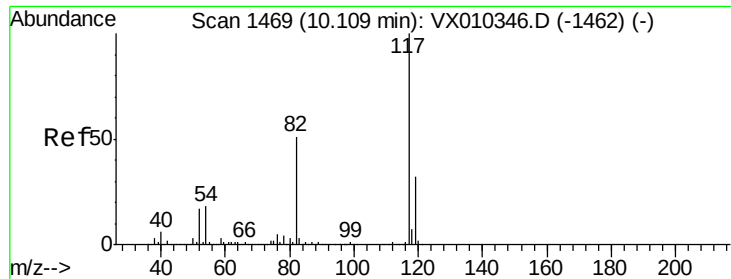
Tot Ion: 98 Resp: 497091
Ion Ratio Lower Upper
98 100
100 64.7 51.6 77.4



#62
4-Bromofluorobenzene
Concen: 45.331 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Tgt Ion: 95 Resp: 164196
Ion Ratio Lower Upper
95 100
174 94.4 0.0 187.6
176 93.4 0.0 184.0

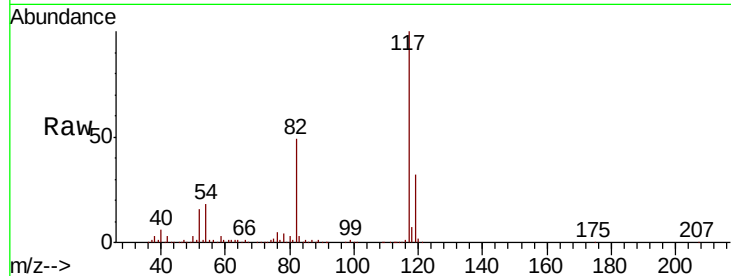




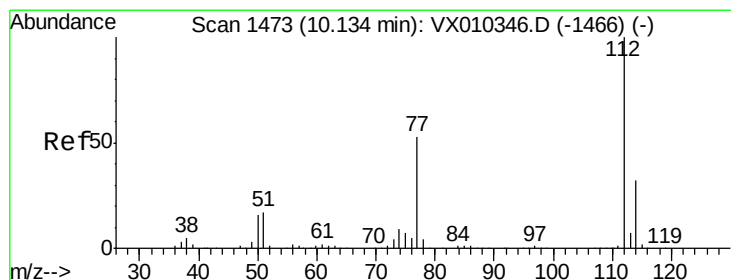
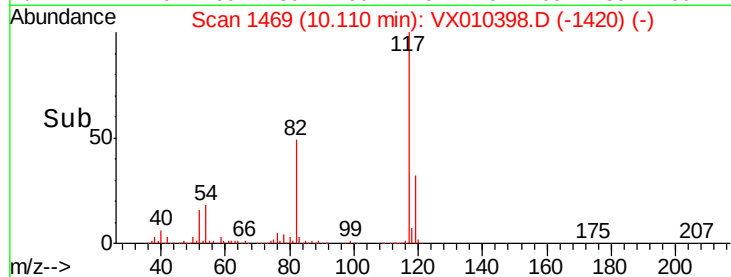
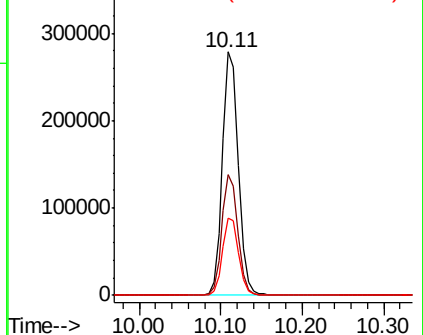
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Instrument :
MSVOA_X
ClientSampleId :
W-4

Tot Ion:117 Resp: 379406
Ion Ratio Lower Upper
117 100
82 49.5 41.2 61.8
119 31.8 25.5 38.3

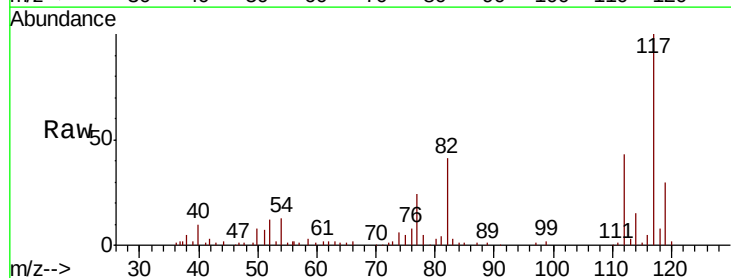


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

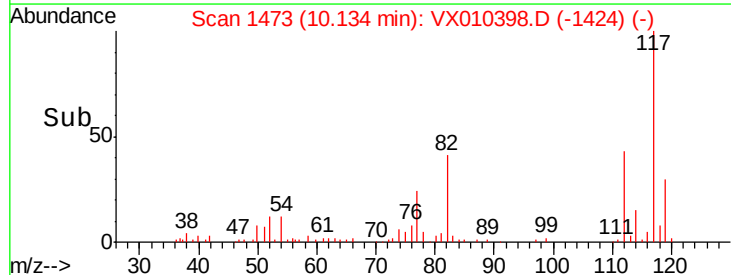
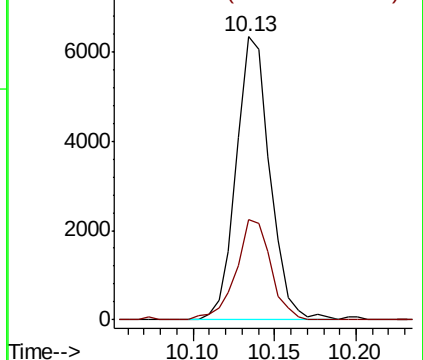


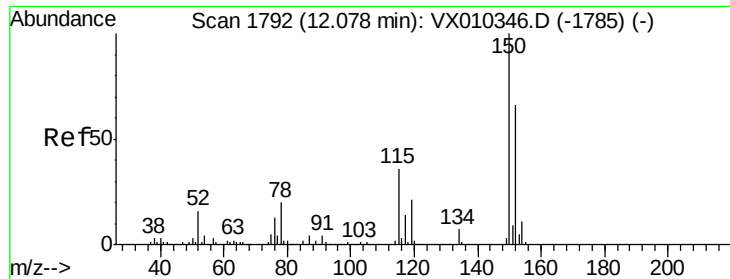
#65
Chlorobenzene
Concen: 1.188 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Tgt Ion:112 Resp: 9147
Ion Ratio Lower Upper
112 100
114 35.6 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VX010398.D

Acq: 21 Jun 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

W-4

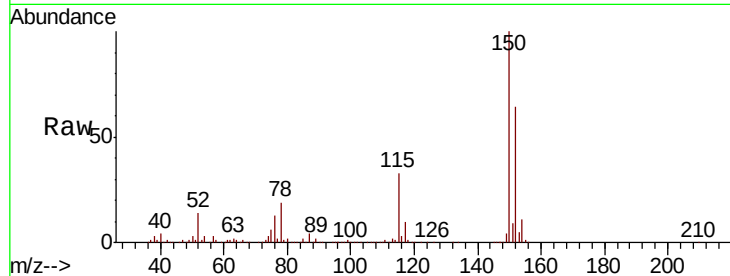
Tot Ion:152 Resp: 172113

Ion Ratio Lower Upper

152 100

115 54.2 38.6 115.7

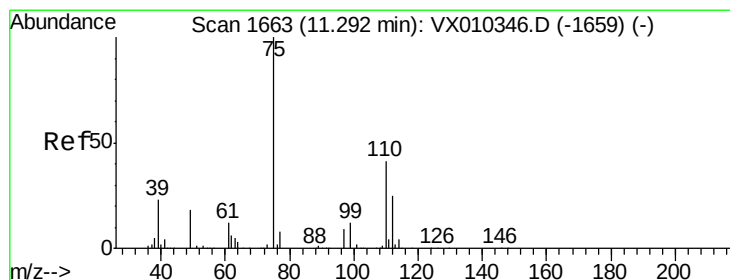
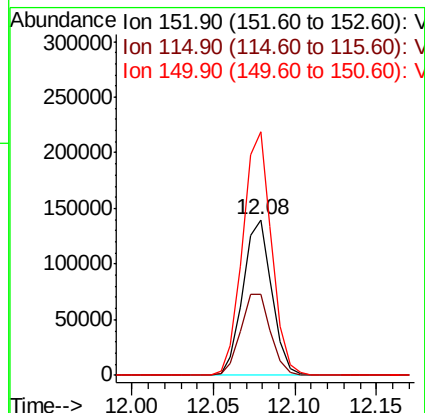
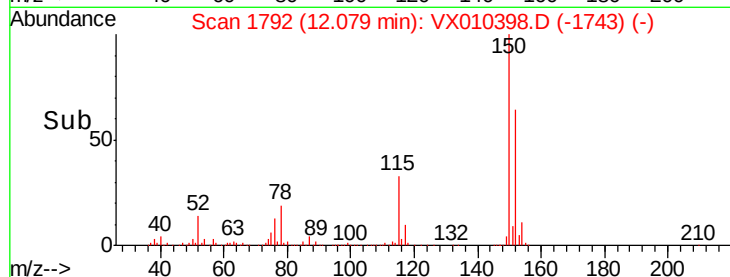
150 156.6 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.445 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010398.D

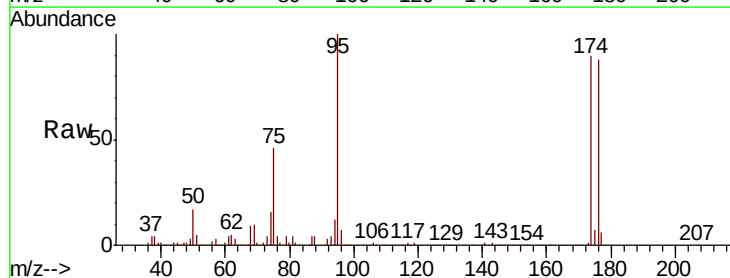
Acq: 21 Jun 2019 20:29

Tgt Ion: 75 Resp: 76669

Ion Ratio Lower Upper

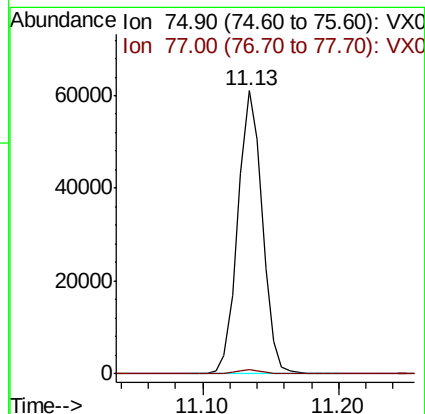
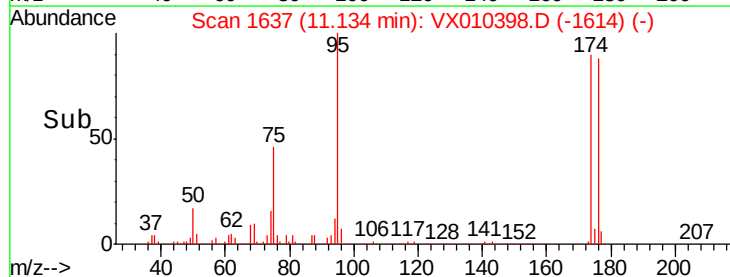
75 100

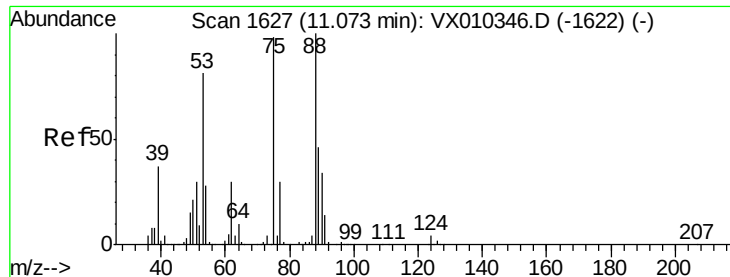
77 1.6 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

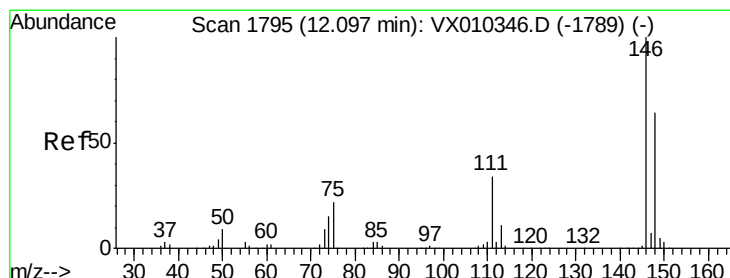
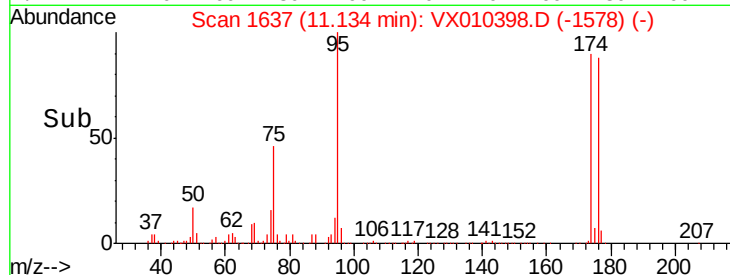
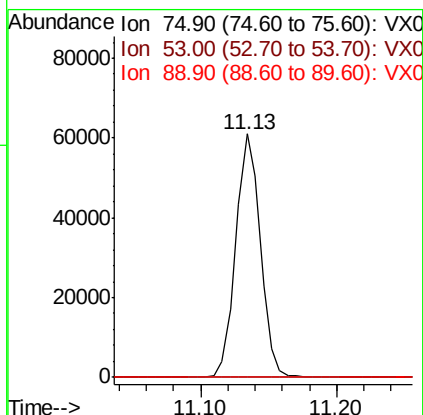
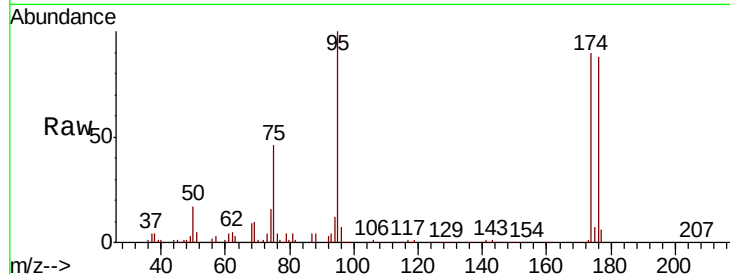




#81
trans-1,4-Dichloro-2-butene
Concen: 57.028 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

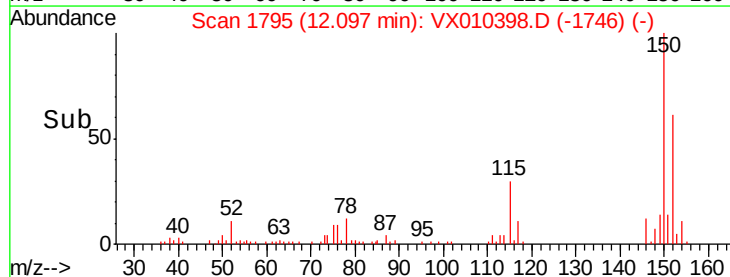
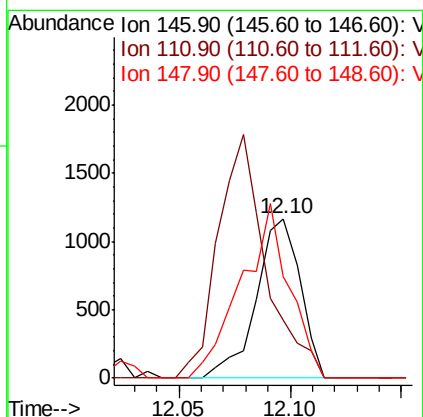
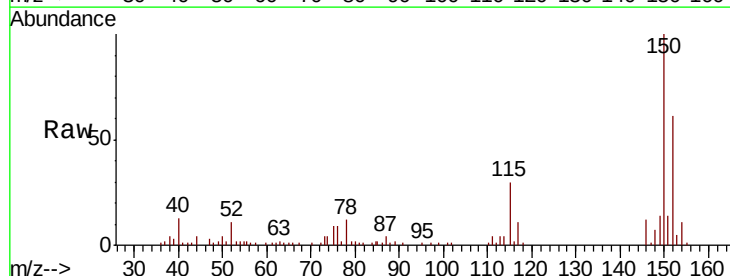
Instrument :
MSVOA_X
ClientSampleId :
W-4

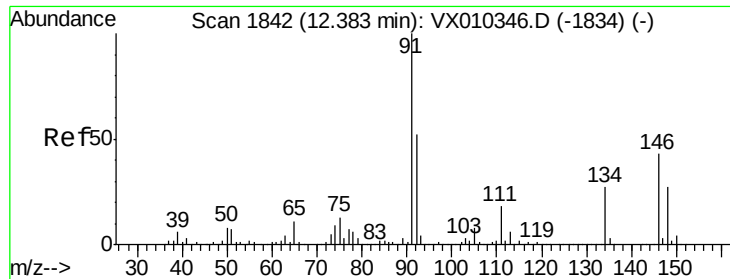
Tot Ion: 75 Resp: 76669
Ion Ratio Lower Upper
75 100
53 0.1 66.1 99.1#
89 0.0 37.8 56.6#



#88
1,4-Dichlorobenzene
Concen: 0.277 ug/l
RT: 12.10 min Scan# 1795
Delta R.T. 0.00 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Tgt Ion: 146 Resp: 1602
Ion Ratio Lower Upper
146 100
111 165.4 18.1 54.3#
148 118.9 32.1 96.3#

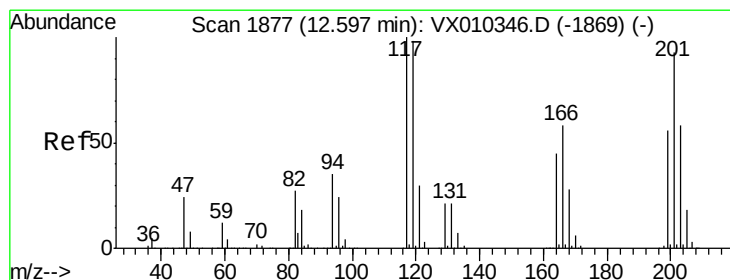
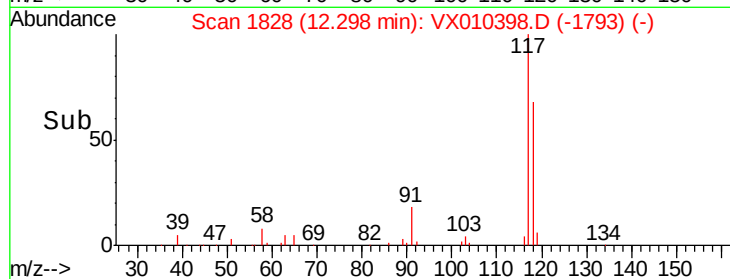
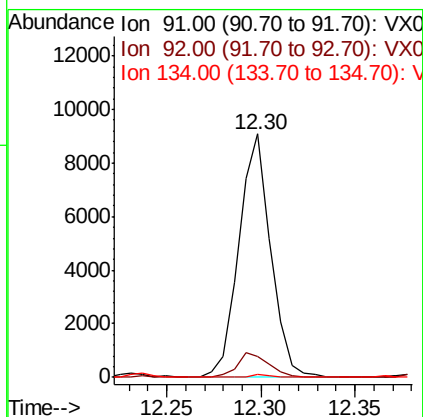
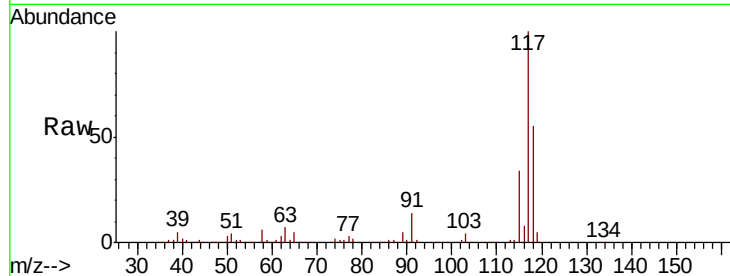




#89
n-Butylbenzene
Concen: 1.191 ug/l
RT: 12.30 min Scan# 1828
Delta R.T. -0.09 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Instrument :
MSVOA_X
ClientSampleId :
W-4

Tot Ion: 91 Resp: 10611
Ion Ratio Lower Upper
91 100
92 10.1 26.2 78.5#
134 0.6 14.1 42.4#



#90
Hexachloroethane
Concen: 1.599 ug/l
RT: 12.76 min Scan# 1903
Delta R.T. 0.16 min
Lab File: VX010398.D
Acq: 21 Jun 2019 20:29

Tgt Ion: 117 Resp: 2899
Ion Ratio Lower Upper
117 100
201 0.0 44.0 131.8#

