

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051319\
 Data File : VX009538.D
 Acq On : 13 May 2019 13:12
 Operator : JC/SP
 Sample : K2799-03DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3DL

Quant Time: May 14 03:43:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	195482	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	306775	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	261814	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	103481	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	124516	46.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.32%	
35) Dibromofluoromethane	5.50	113	93070	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
50) Toluene-d8	8.71	98	383266	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
62) 4-Bromofluorobenzene	11.13	95	120404	42.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.12%	

Target Compounds

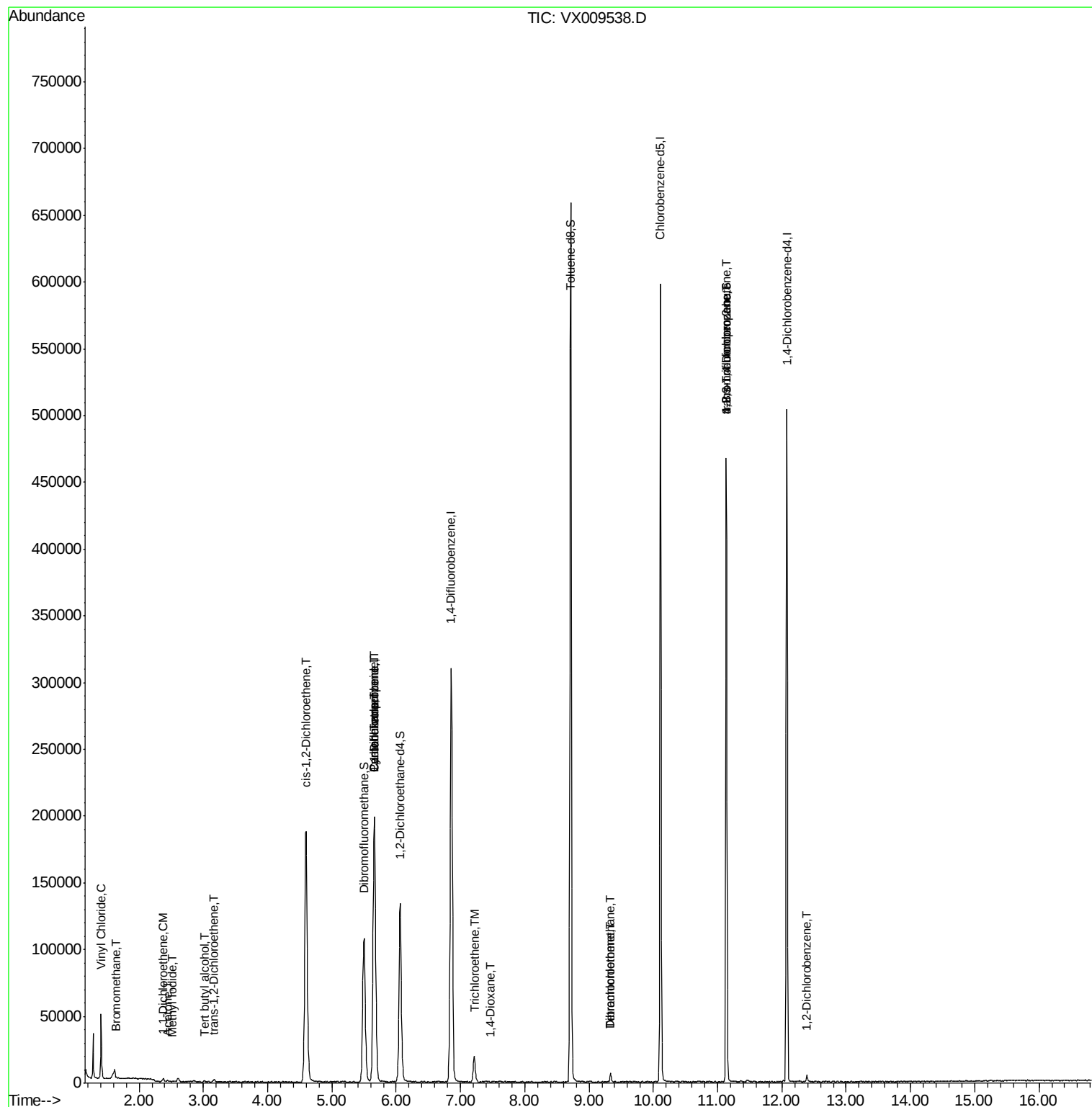
						Qvalue
4) Vinyl Chloride	1.41	62	33851	14.115	ug/l	96
5) Bromomethane	1.64	94	531	0.369	ug/l	99
10) Methyl Iodide	2.52	142	279	4.713	ug/l #	90
11) Tert butyl alcohol	3.02	59	399	0.646	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	727	0.396	ug/l #	79
16) Acetone	2.45	43	1079	0.753	ug/l #	86
21) trans-1,2-Dichloroethene	3.17	96	561	0.282	ug/l	86
27) cis-1,2-Dichloroethene	4.60	96	119649	50.393	ug/l	88
28) Bromochloromethane	5.00	49	20	Below Cal	#	20
31) Cyclohexane	5.66	56	4207	1.066	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14745	5.172	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17927	6.921	ug/l #	16
44) Trichloroethene	7.21	130	7333	3.438	ug/l	88
49) 1,4-Dioxane	7.46	88	39	0.610	ug/l #	20
60) Dibromochloromethane	9.34	129	1000	0.468	ug/l #	11
64) Tetrachloroethene	9.34	164	1160	0.646	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	61987	25.824	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61987	66.074	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	1583	0.467	ug/l	97

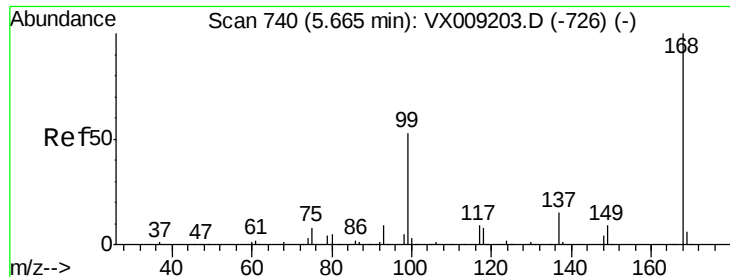
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 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: VX009538.D

Acq: 13 May 2019 13:12

Instrument :

MSVOA_X

ClientSampleId :

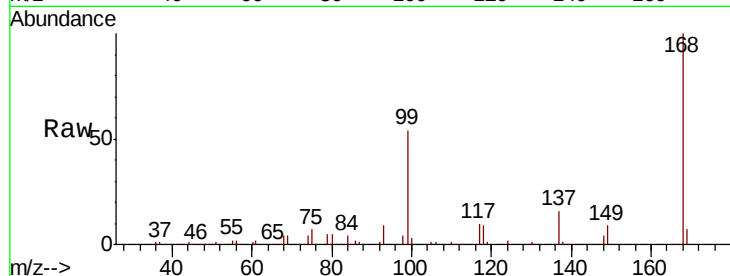
MW-3DL

Tot Ion:168 Resp: 195482

Ion Ratio Lower Upper

168 100

99 53.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

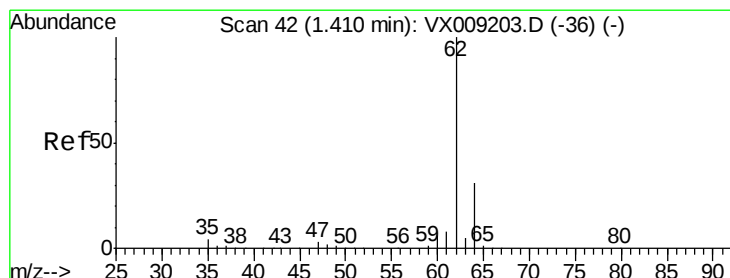
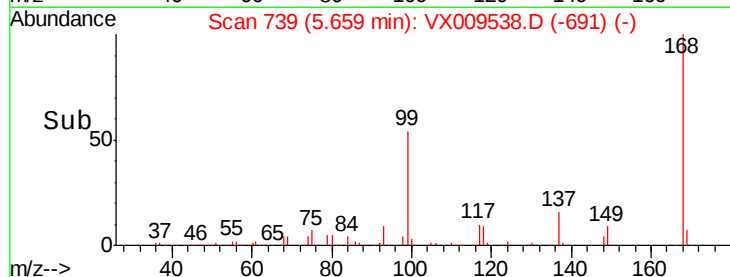
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 14.115 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009538.D

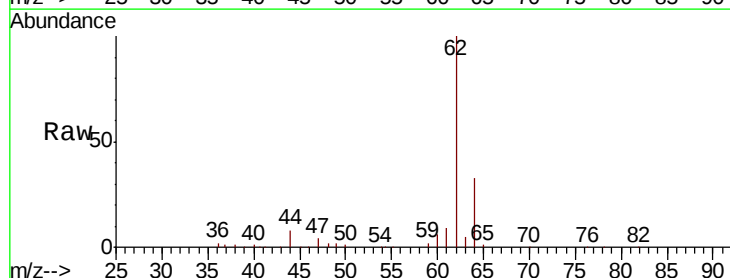
Acq: 13 May 2019 13:12

Tgt Ion: 62 Resp: 33851

Ion Ratio Lower Upper

62 100

64 33.1 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

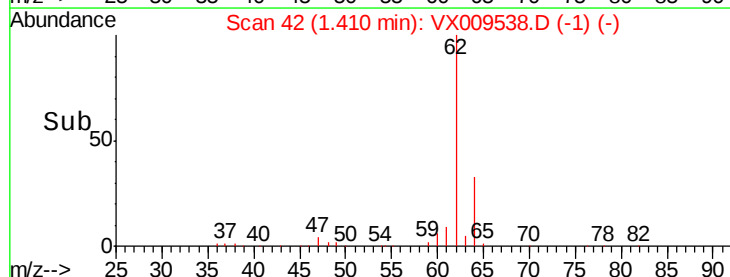
30000

20000

10000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.369 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

Instrument :

MSVOA_X

ClientSampleId :

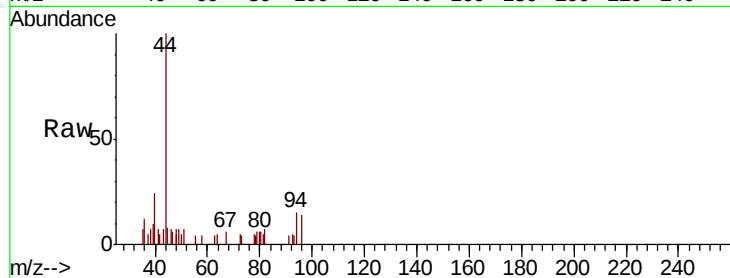
MW-3DL

Tot Ion: 94 Resp: 531

Ion Ratio Lower Upper

94 100

96 90.8 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

150

100

50

0

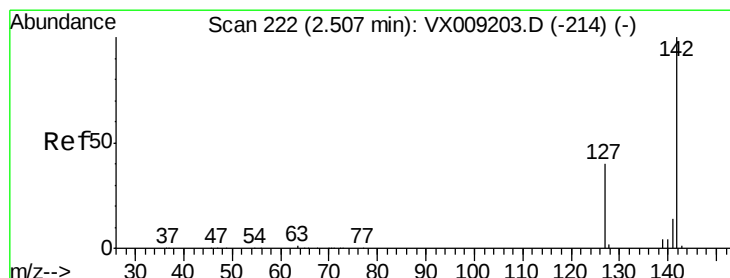
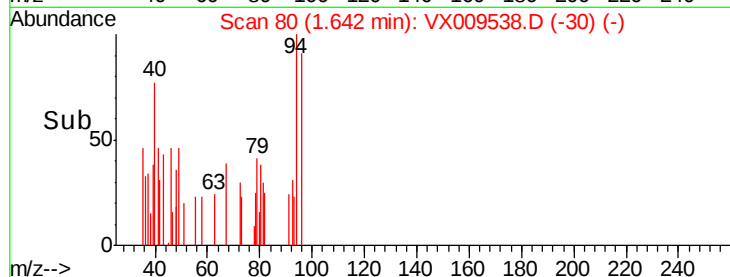
1.55

1.60

1.65

1.70

Time-->



#10

Methyl Iodide

Concen: 4.713 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

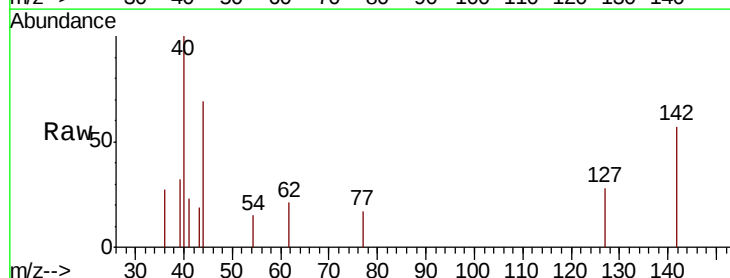
Tgt Ion: 142 Resp: 279

Ion Ratio Lower Upper

142 100

127 40.1 32.7 49.1

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.52

200

150

100

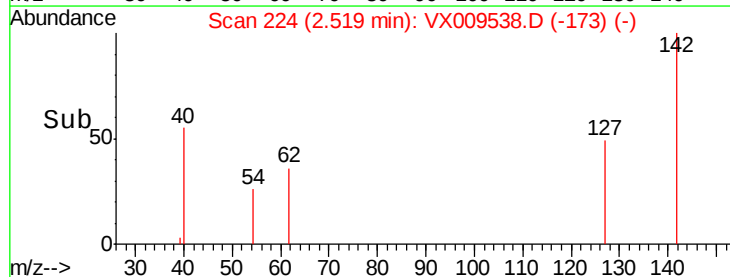
50

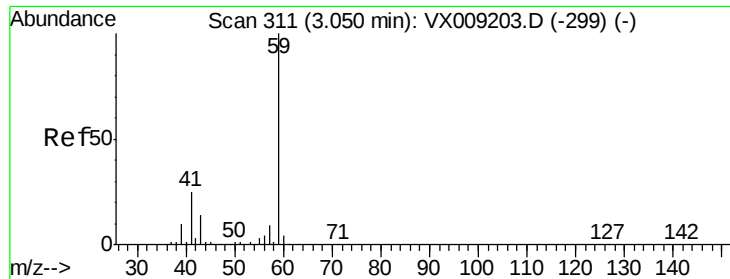
0

2.50

2.55

Time-->

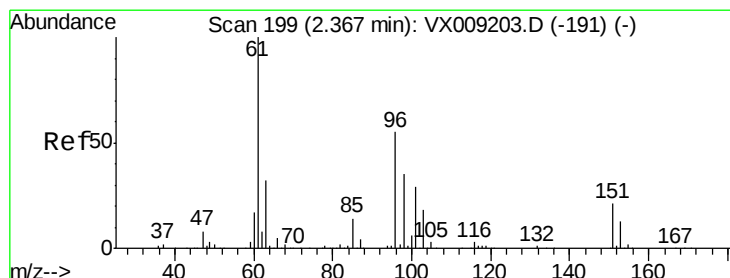
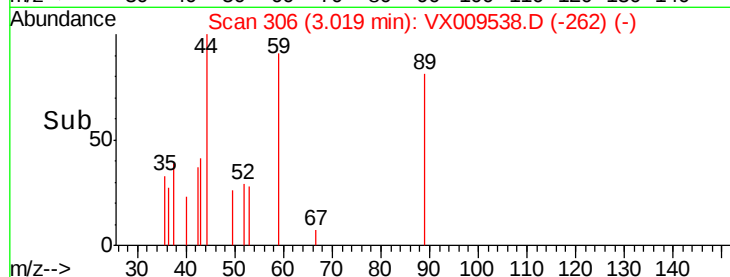
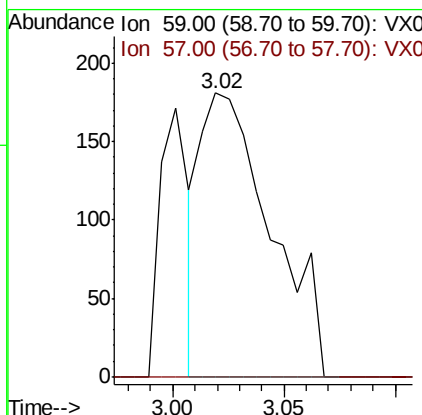
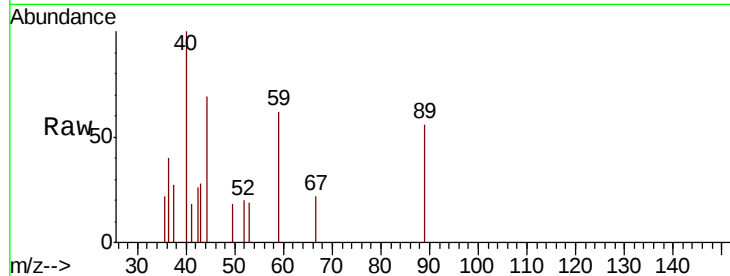




#11
Tert butyl alcohol
Concen: 0.646 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009538.D
Acq: 13 May 2019 13:12

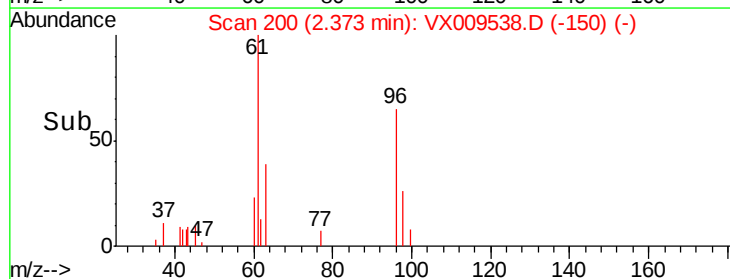
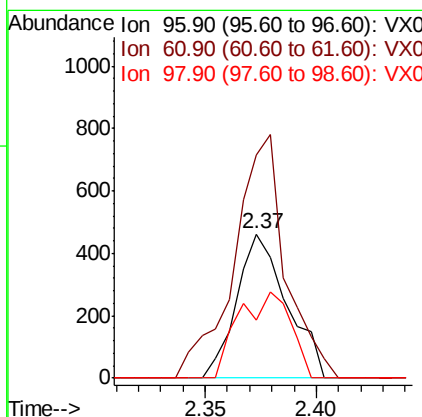
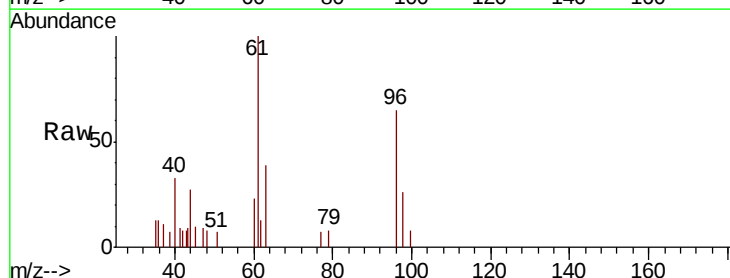
Instrument :
MSVOA_X
ClientSampleId :
MW-3DL

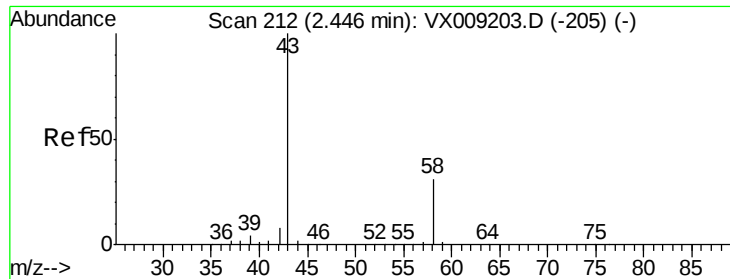
Tot Ion: 59 Resp: 399
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 0.396 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.01 min
Lab File: VX009538.D
Acq: 13 May 2019 13:12

Tgt Ion: 96 Resp: 727
Ion Ratio Lower Upper
96 100
61 154.6 144.3 216.5
98 40.0 50.3 75.5#





#16

Acetone

Concen: 0.753 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

Instrument :

MSVOA_X

ClientSampled :

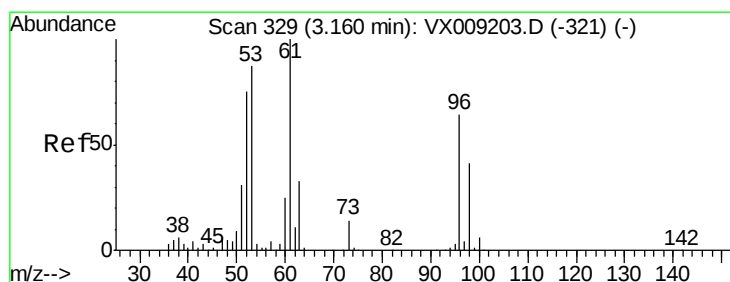
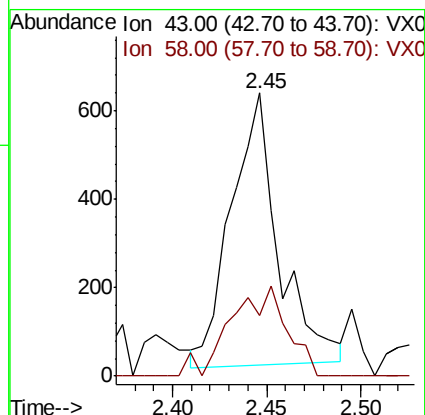
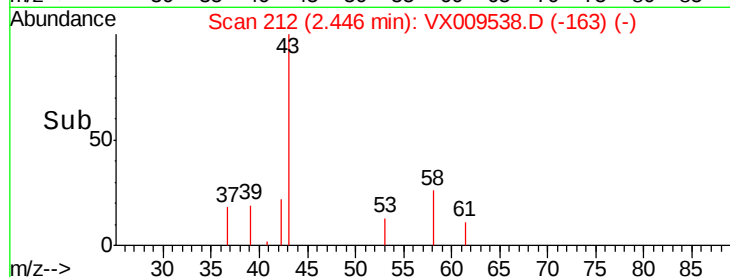
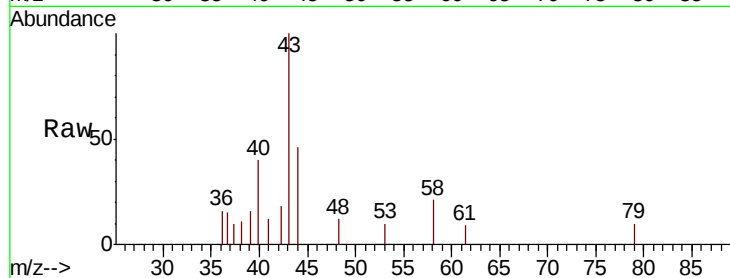
MW-3DL

Tot Ion: 43 Resp: 1079

Ion Ratio Lower Upper

43 100

58 23.5 24.9 37.3#



#21

trans-1,2-Dichloroethene

Concen: 0.282 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

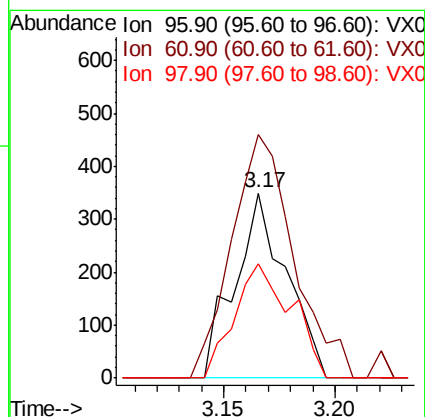
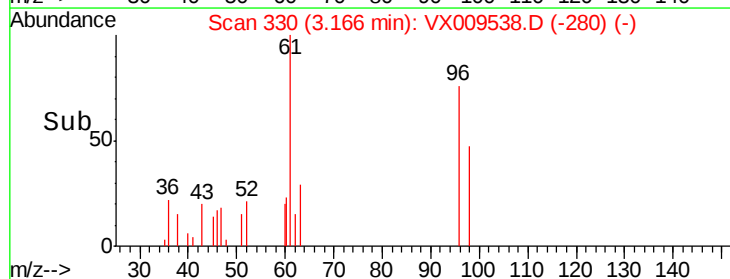
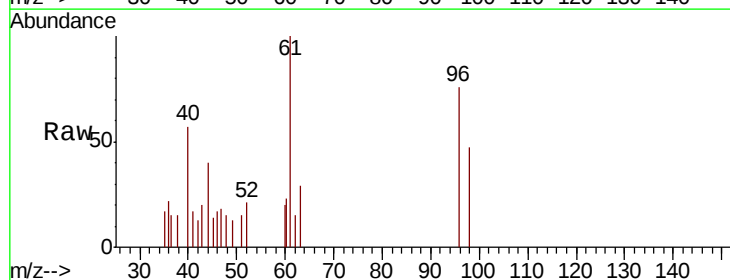
Tgt Ion: 96 Resp: 561

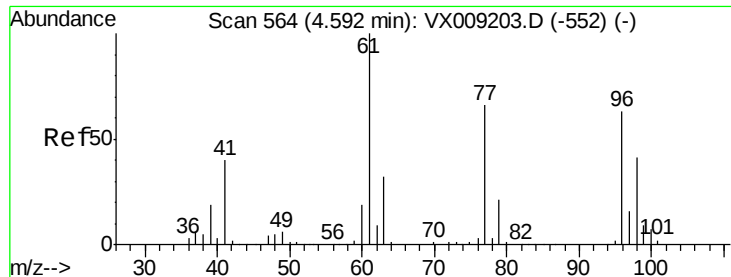
Ion Ratio Lower Upper

96 100

61 131.4 124.5 186.7

98 61.4 50.4 75.6



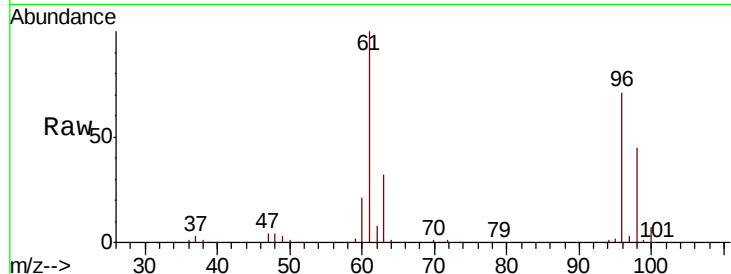


#27

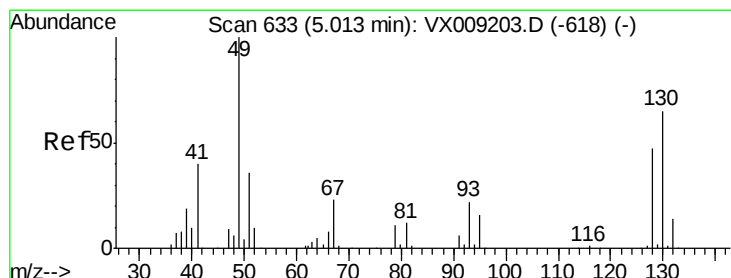
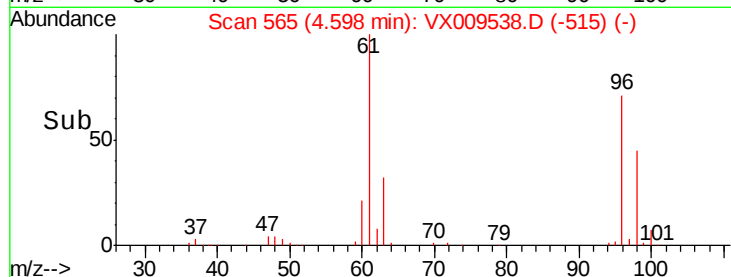
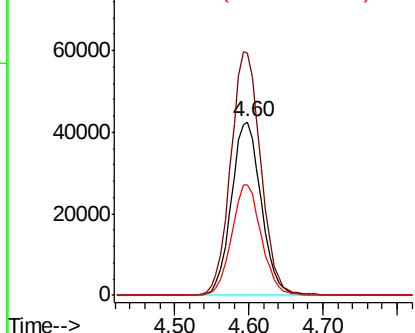
cis-1,2-Dichloroethene
 Concen: 50.393 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX009538.D
 Acq: 13 May 2019 13:12

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.7	0.0	324.0
98	63.3	0.0	130.4



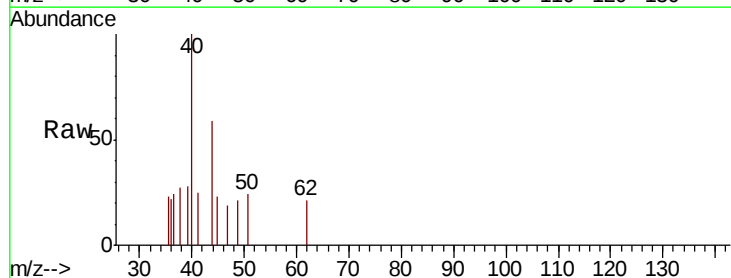
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



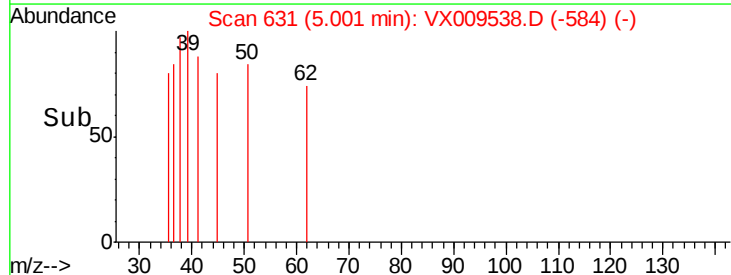
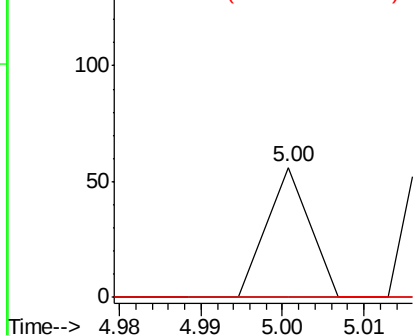
#28

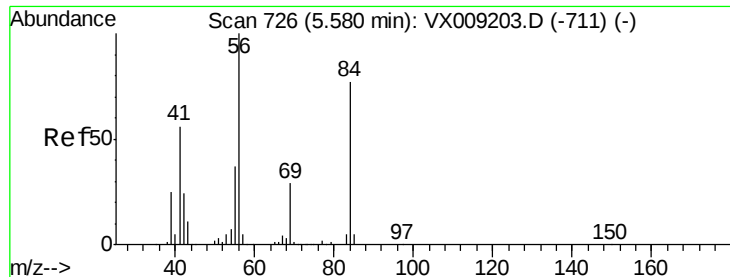
Bromochloromethane
 Concen: Below Cal
 RT: 5.00 min Scan# 631
 Delta R.T. -0.01 min
 Lab File: VX009538.D
 Acq: 13 May 2019 13:12

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	51.2	76.8#



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

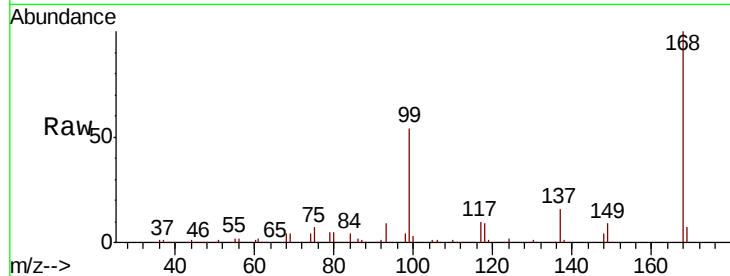




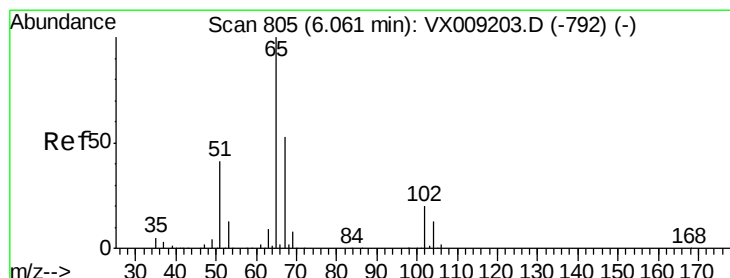
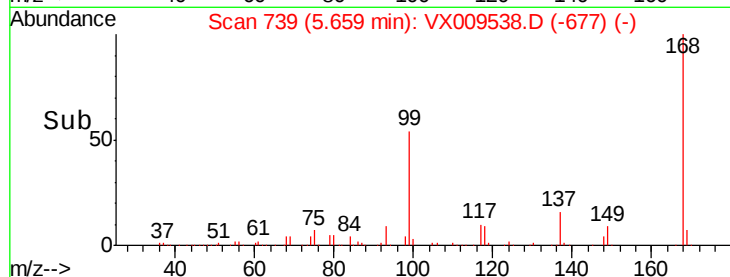
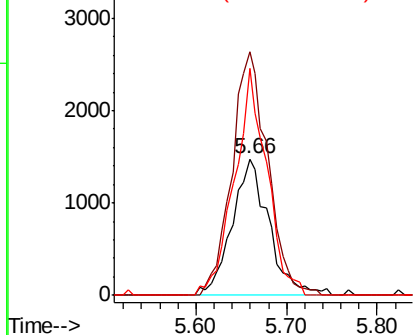
#31
Cyclohexane
Concen: 1.066 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009538.D
Acq: 13 May 2019 13:12

Instrument :
MSVOA_X
ClientSampleId :
MW-3DL

Tot Ion: 56 Resp: 4207
Ion Ratio Lower Upper
56 100
69 178.2 23.4 35.0#
84 172.6 61.9 92.9#

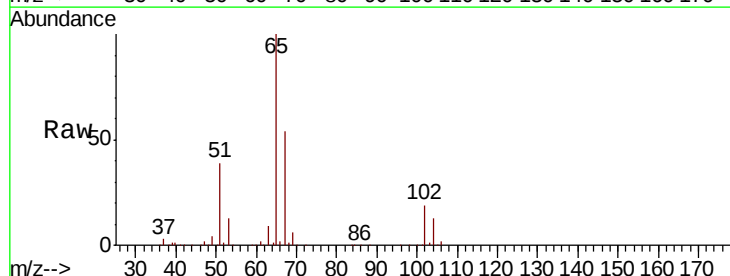


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

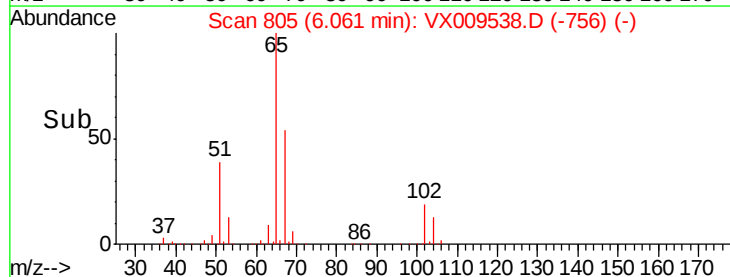
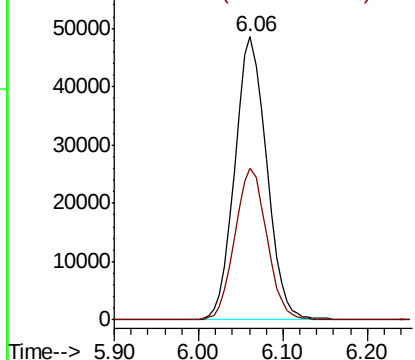


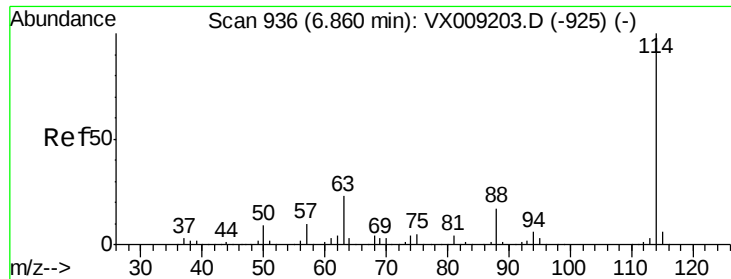
#33
1,2-Dichloroethane-d4
Concen: 46.660 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009538.D
Acq: 13 May 2019 13:12

Tgt Ion: 65 Resp: 124516
Ion Ratio Lower Upper
65 100
67 53.9 0.0 106.6



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

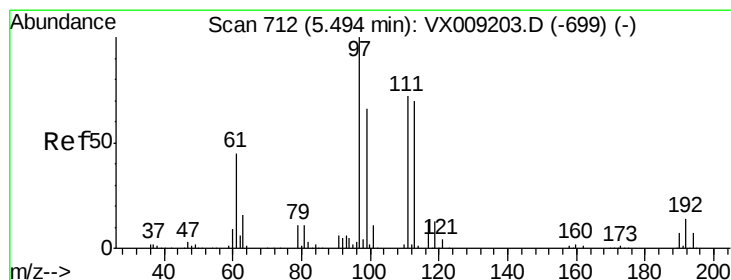
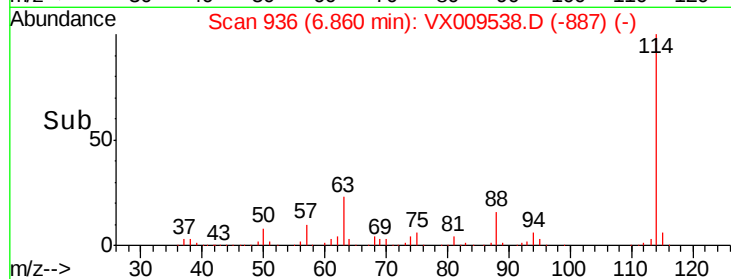
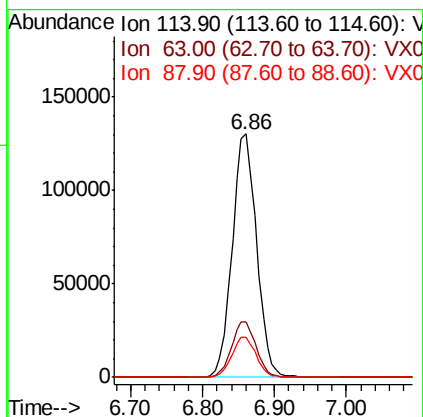
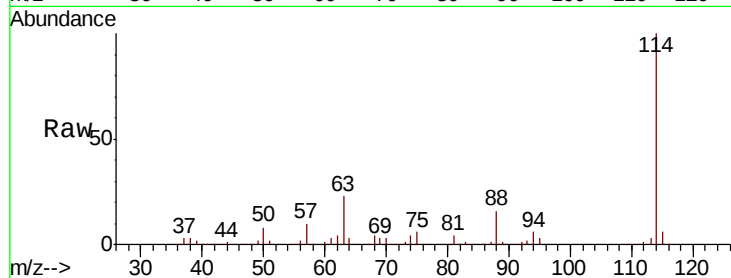




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009538.D
 Acq: 13 May 2019 13:12

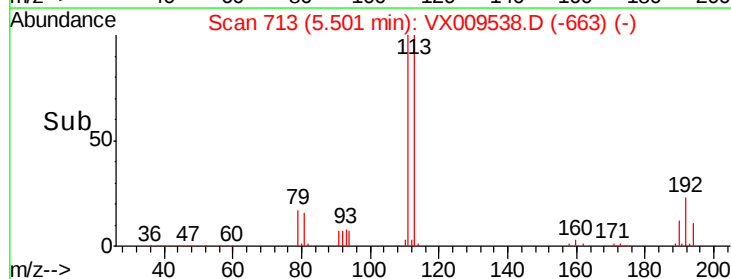
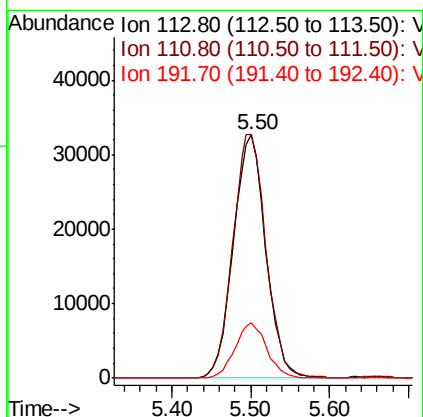
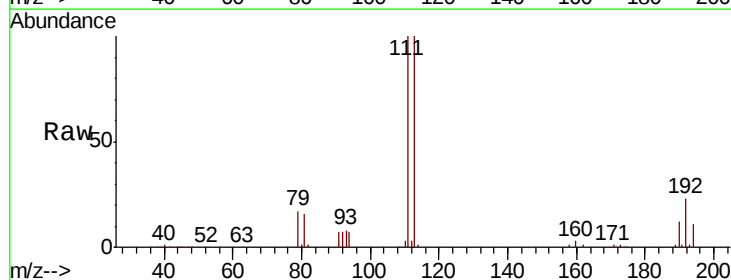
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3DL

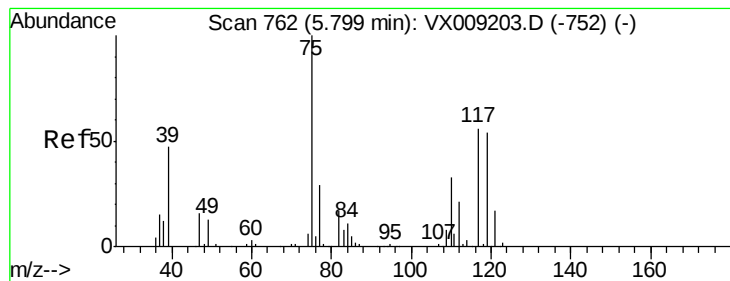
Tot Ion:114 Resp: 306775
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.6
 88 16.3 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 48.260 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009538.D
 Acq: 13 May 2019 13:12

Tgt Ion:113 Resp: 93070
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.8 124.2
 192 22.4 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.172 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

Instrument :

MSVOA_X

ClientSampleId :

MW-3DL

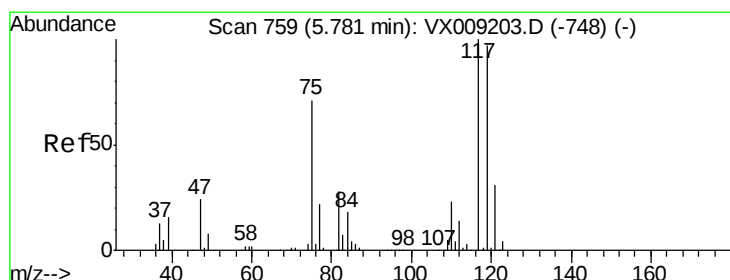
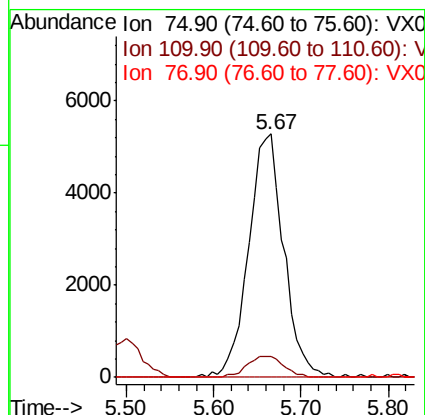
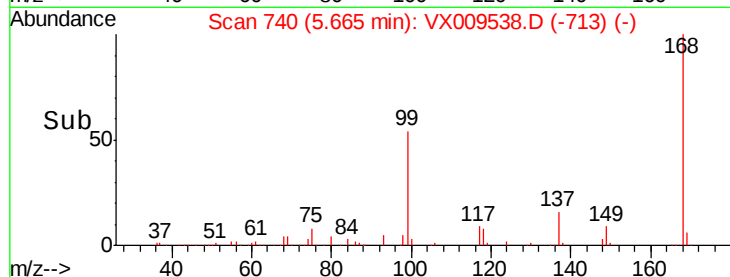
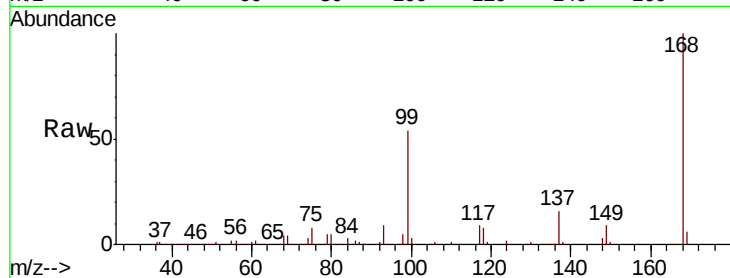
Tot Ion: 75 Resp: 14745

Ion Ratio Lower Upper

75 100

110 9.0 16.9 50.6#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.921 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

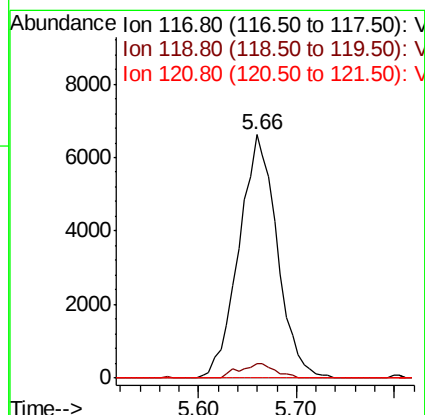
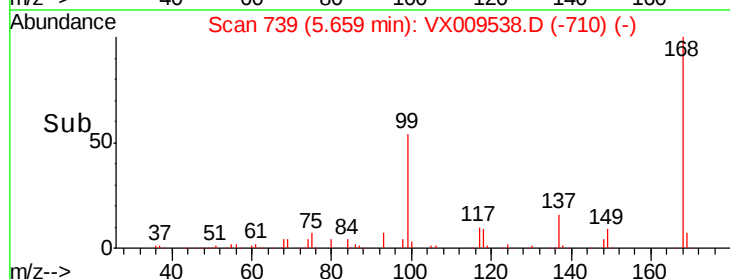
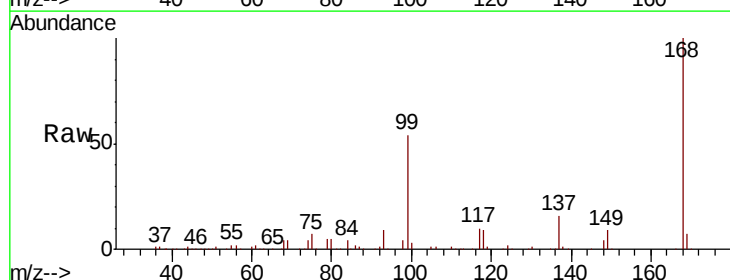
Tgt Ion: 117 Resp: 17927

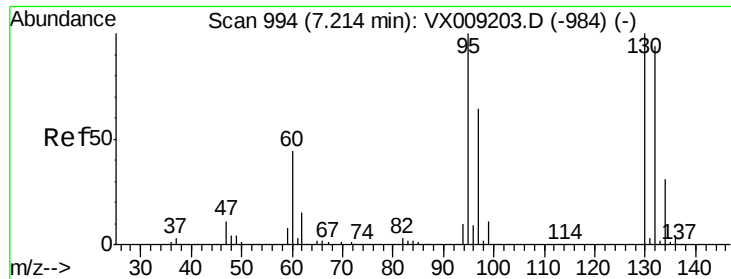
Ion Ratio Lower Upper

117 100

119 5.8 77.5 116.3#

121 0.0 24.7 37.1#

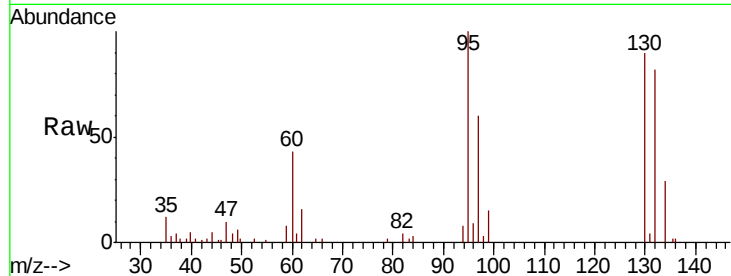




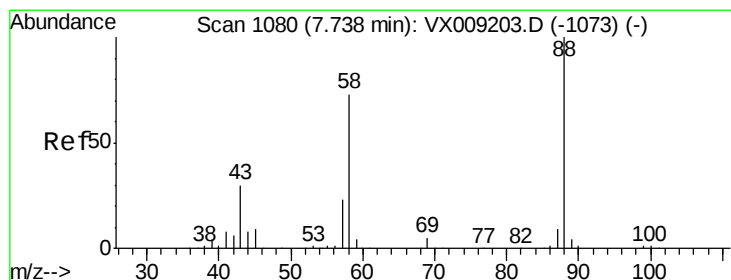
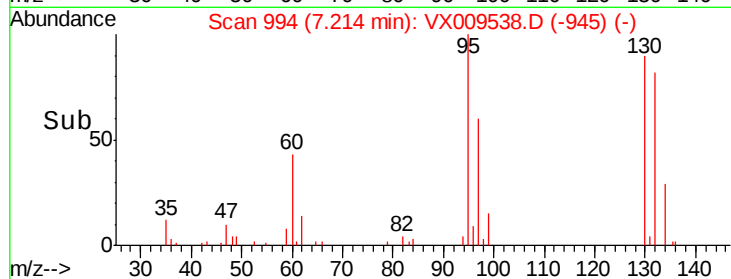
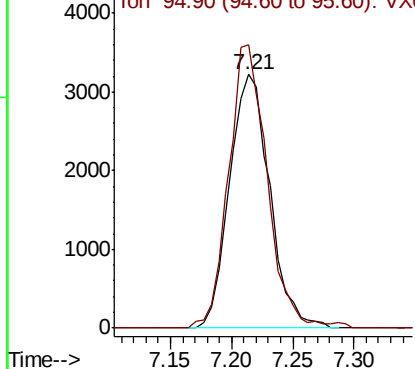
#44
 Trichloroethene
 Concen: 3.438 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX009538.D
 Acq: 13 May 2019 13:12

Instrument :
 MSVOA_X
 ClientSampled :
 MW-3DL

Tot Ion:130 Resp: 7333
 Ion Ratio Lower Upper
 130 100
 95 111.5 0.0 199.2

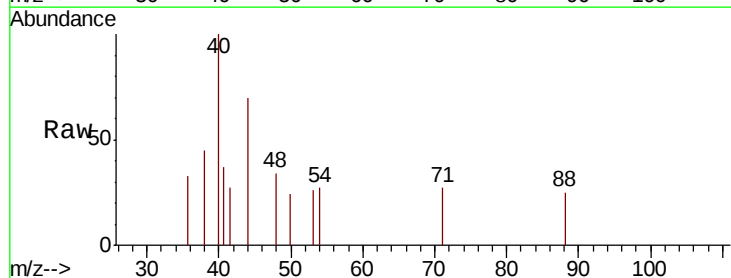


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

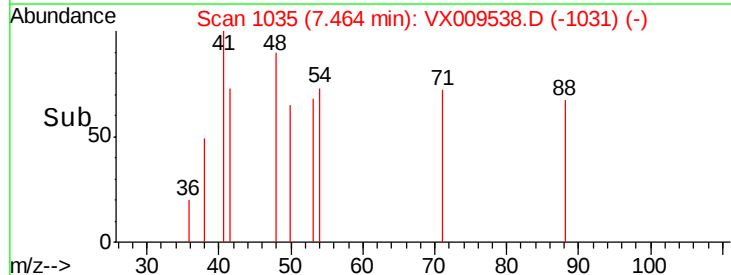
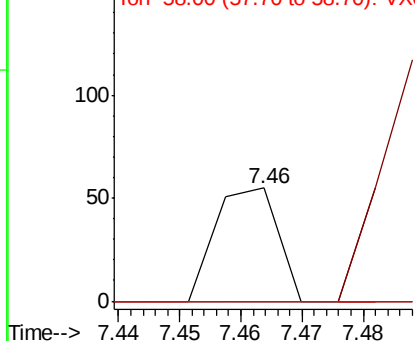


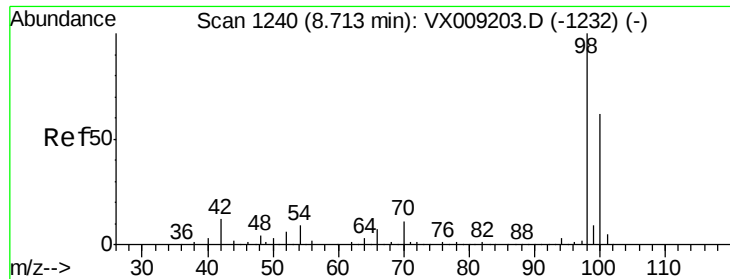
#49
 1,4-Dioxane
 Concen: 0.610 ug/l
 RT: 7.46 min Scan# 1035
 Delta R.T. -0.27 min
 Lab File: VX009538.D
 Acq: 13 May 2019 13:12

Tgt Ion: 88 Resp: 39
 Ion Ratio Lower Upper
 88 100
 43 0.0 28.6 42.8#
 58 0.0 61.7 92.5#



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: 49.226 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

Instrument :

MSVOA_X

ClientSampled :

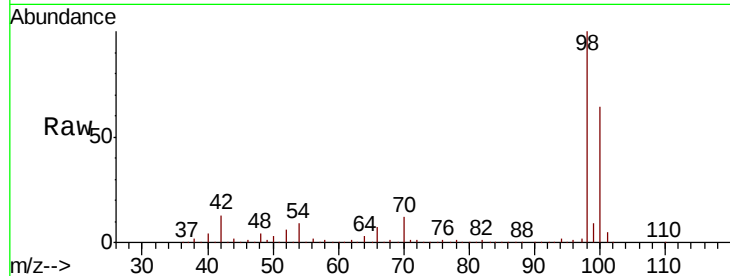
MW-3DL

Tot Ion: 98 Resp: 383266

Ion Ratio Lower Upper

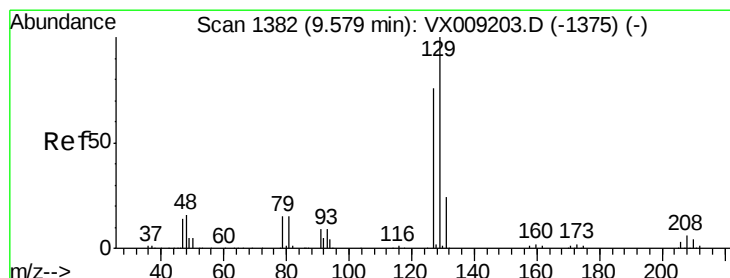
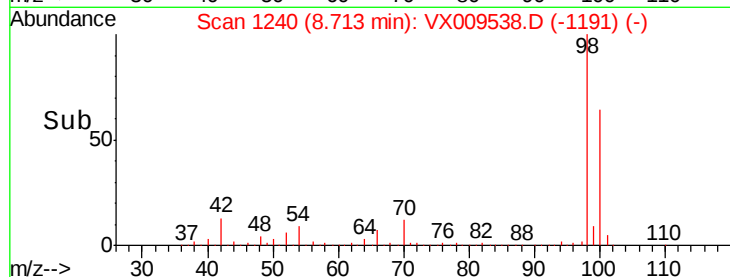
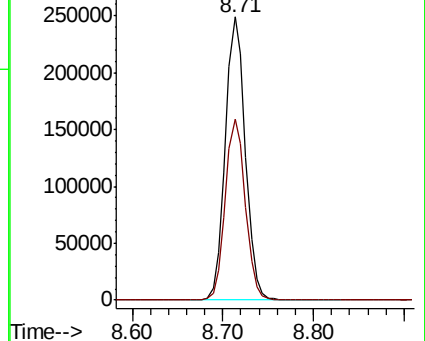
98 100

100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 0.468 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009538.D

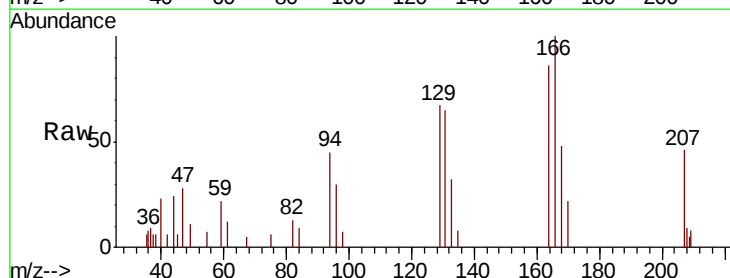
Acq: 13 May 2019 13:12

Tgt Ion:129 Resp: 1000

Ion Ratio Lower Upper

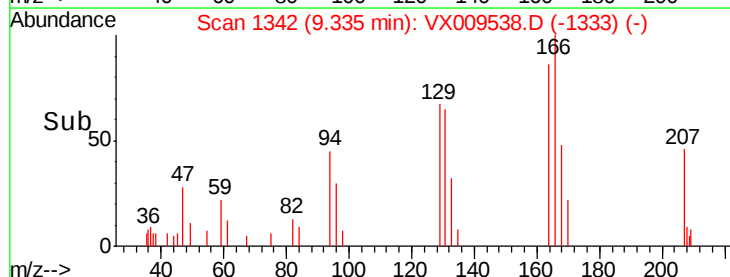
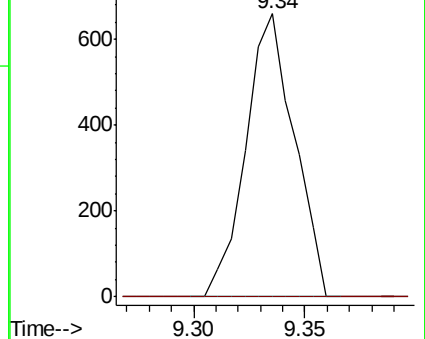
129 100

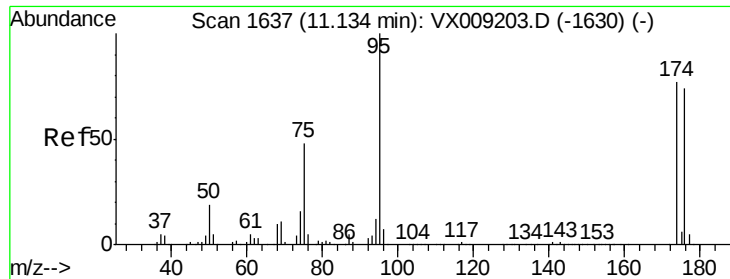
127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 42.559 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

Instrument :

MSVOA_X

ClientSampleId :

MW-3DL

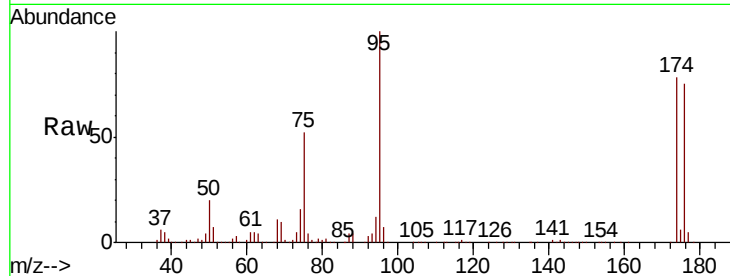
Tot Ion: 95 Resp: 120404

Ion Ratio Lower Upper

95 100

174 82.9 0.0 161.6

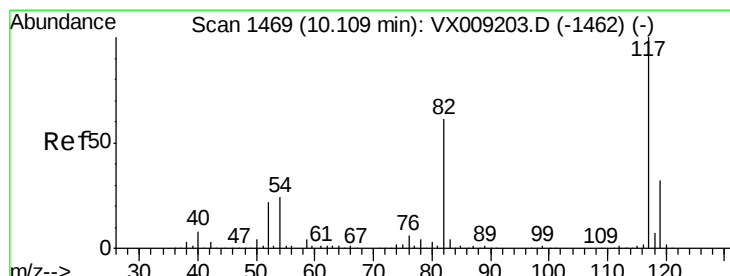
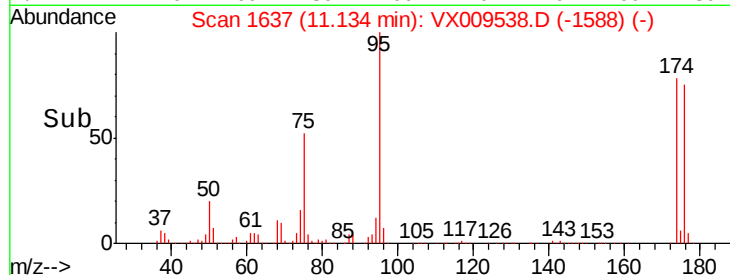
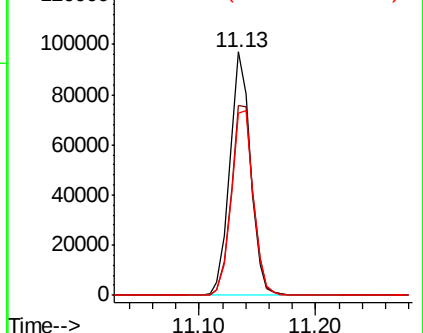
176 80.4 0.0 159.2



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

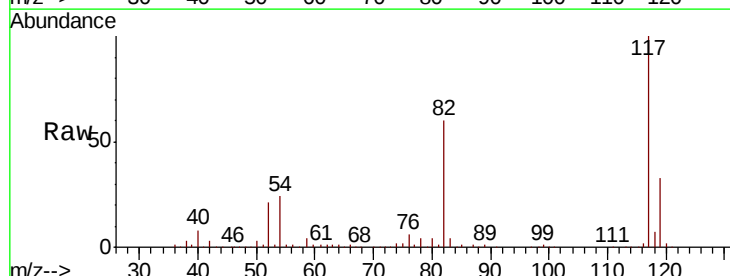
Tgt Ion: 117 Resp: 261814

Ion Ratio Lower Upper

117 100

82 60.1 48.8 73.2

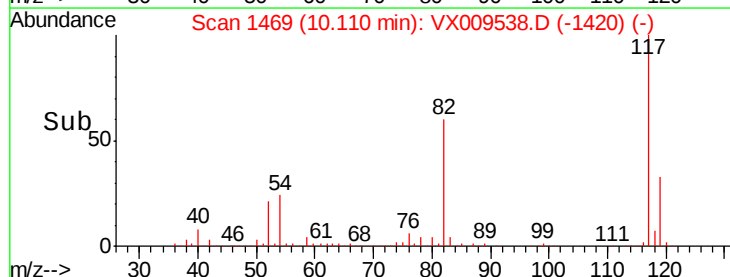
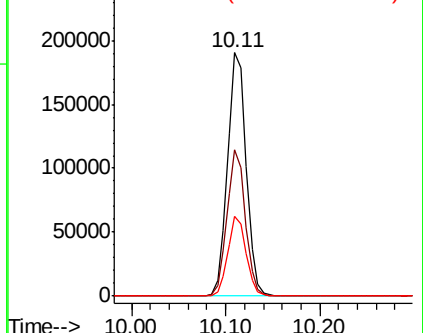
119 32.6 25.8 38.6

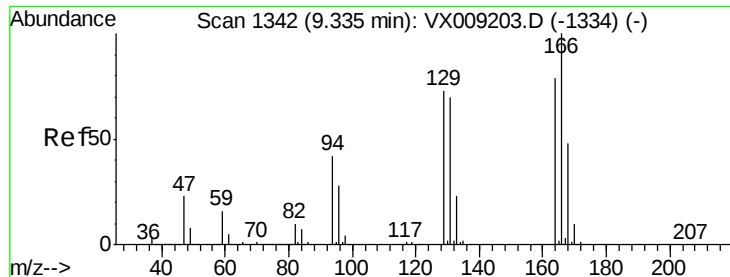


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

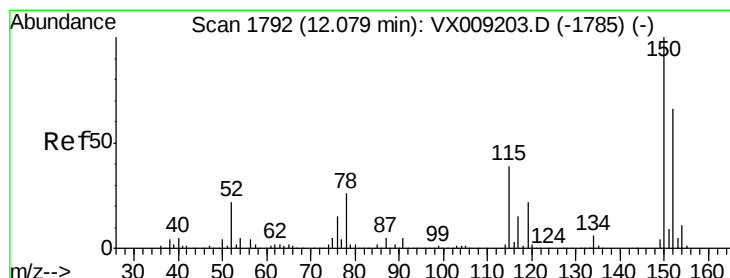
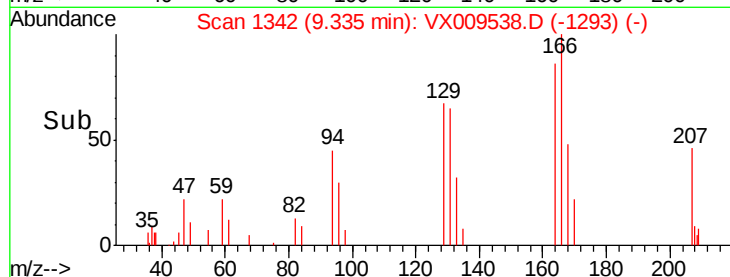
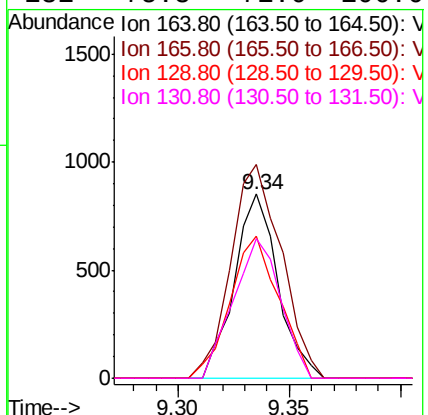
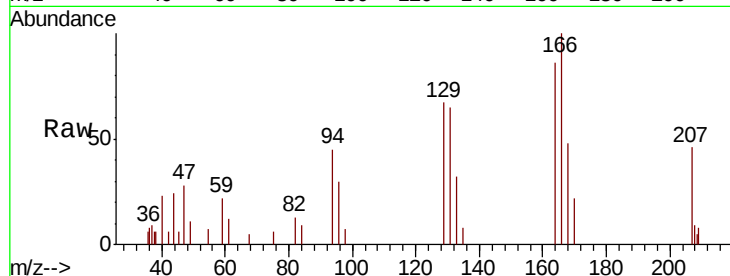




#64
Tetrachloroethene
Concen: 0.646 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009538.D
Acq: 13 May 2019 13:12

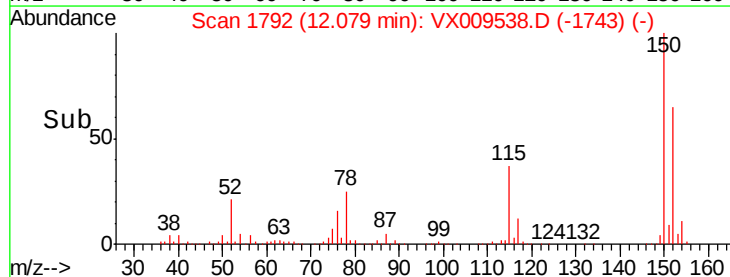
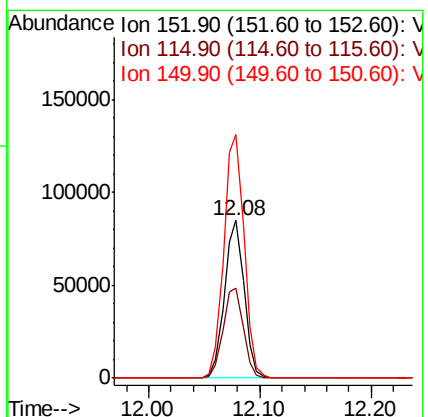
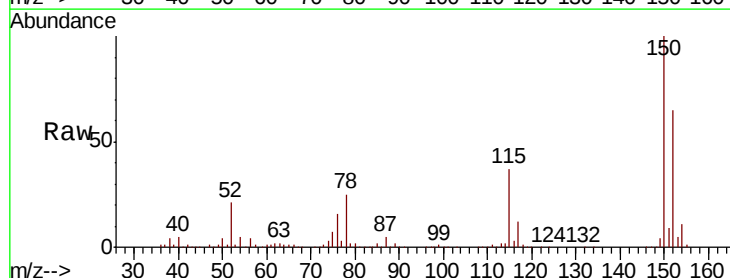
Instrument :
MSVOA_X
ClientSampled :
MW-3DL

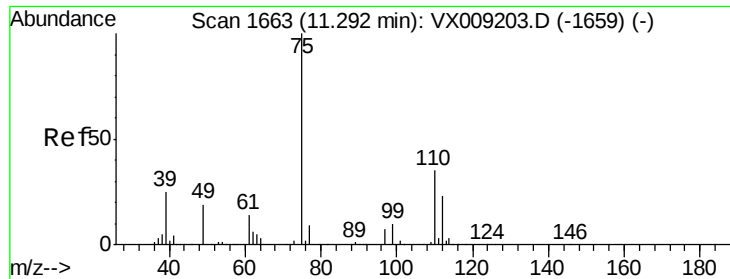
Tot Ion	Ratio	Lower	Upper
164	100		
166	116.2	101.2	151.8
129	77.4	74.3	111.5
131	75.8	71.0	106.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009538.D
Acq: 13 May 2019 13:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.1	41.2	123.6
150	159.8	0.0	346.4





#76

1,2,3-Trichloropropane

Concen: 25.824 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

Instrument :

MSVOA_X

ClientSampled :

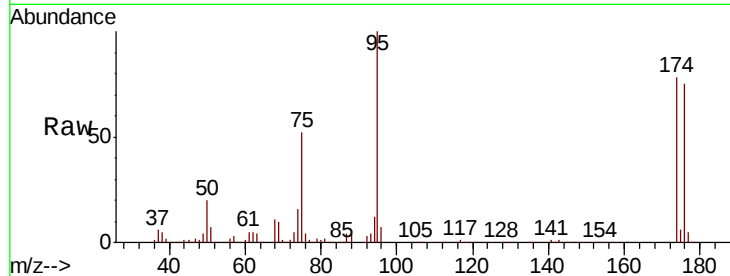
MW-3DL

Tot Ion: 75 Resp: 61987

Ion Ratio Lower Upper

75 100

77 1.5 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

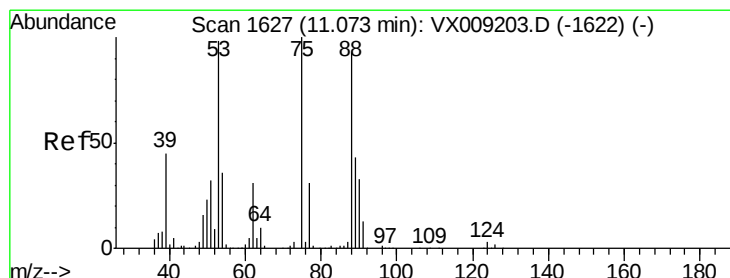
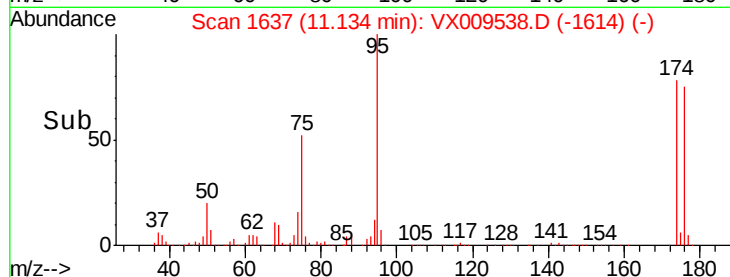
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 66.074 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

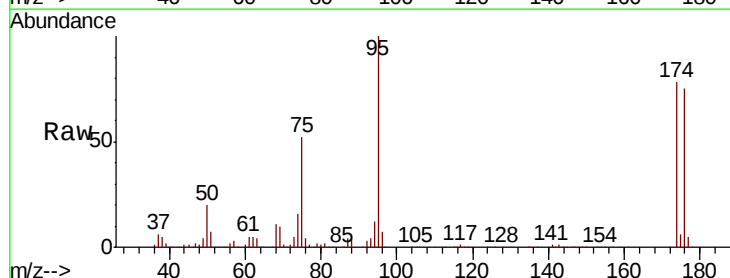
Tgt Ion: 75 Resp: 61987

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.13

60000

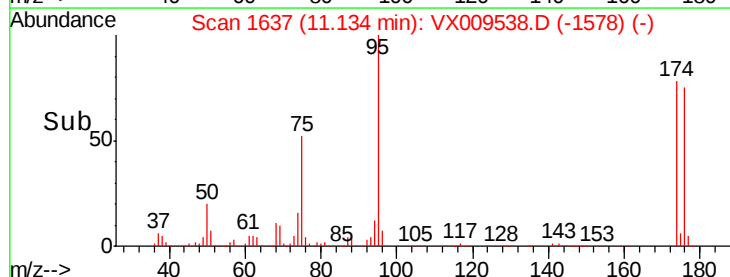
40000

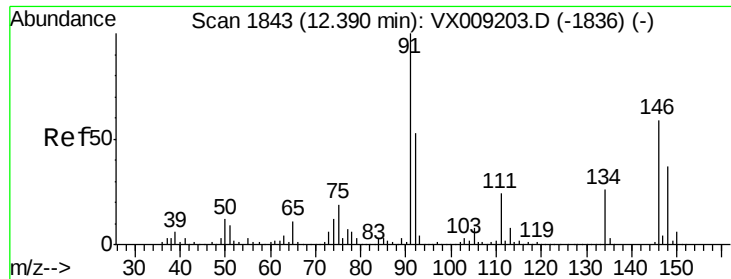
20000

0

Time-->

11.10 11.20





#91

1,2-Dichlorobenzene

Concen: 0.467 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX009538.D

Acq: 13 May 2019 13:12

Instrument :

MSVOA_X

ClientSampleId :

MW-3DL

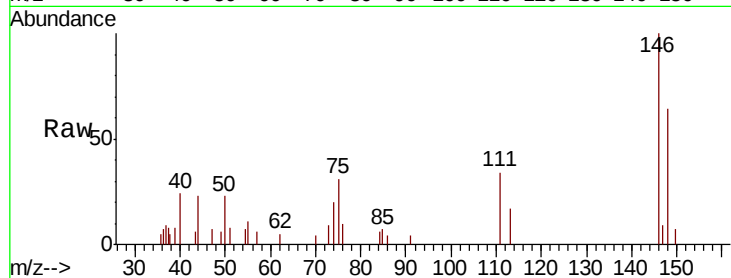
Tot Ion:146 Resp: 1583

Ion Ratio Lower Upper

146 100

111 38.5 20.8 62.4

148 62.2 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

