

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071019\
 Data File : VX010783.D
 Acq On : 10 Jul 2019 17:33
 Operator : JC/SP
 Sample : K3738-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

Quant Time: Jul 11 01:16:41 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	207043	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	325796	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	302362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	137721	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	107158	55.20	ug/l	0.00
Spiked Amount			Recovery	=	110.40%	
35) Dibromofluoromethane	5.50	113	100892	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	8.71	98	388448	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	11.13	95	131888	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	

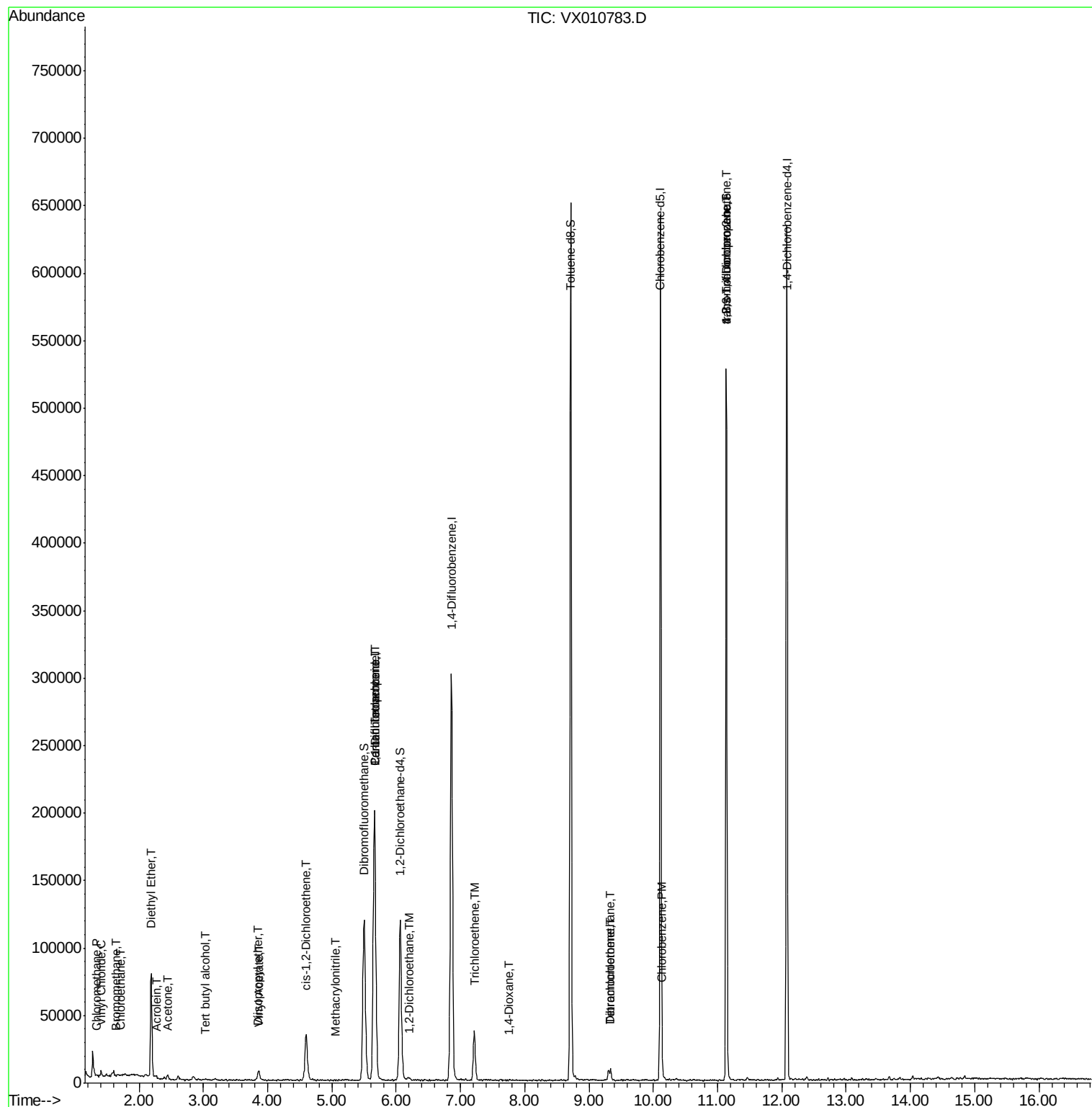
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	443	0.264	ug/l #	69
4) Vinyl Chloride	1.41	62	2938	1.600	ug/l	93
5) Bromomethane	1.65	94	283	0.316	ug/l #	63
6) Chloroethane	1.72	64	243	0.224	ug/l #	59
8) Diethyl Ether	2.19	74	27446	26.298	ug/l	99
11) Tert butyl alcohol	3.04	59	1095	2.156	ug/l #	86
13) Acrolein	2.28	56	199	0.591	ug/l	95
16) Acetone	2.45	43	3950	4.060	ug/l #	88
22) Diisopropyl ether	3.86	45	7613	1.429	ug/l #	75
23) Vinyl Acetate	3.87	43	4337	0.942	ug/l #	68
27) cis-1,2-Dichloroethene	4.60	96	23613	10.587	ug/l	92
36) 1,1-Dichloropropene	5.67	75	13342	5.153	ug/l #	48
38) Carbon Tetrachloride	5.67	117	18597	6.634	ug/l #	15
41) Methacrylonitrile	5.05	41	476	0.326	ug/l #	20
42) 1,2-Dichloroethane	6.21	62	1941	0.791	ug/l	84
44) Trichloroethene	7.21	130	15171	6.286	ug/l	97
49) 1,4-Dioxane	7.74	88	40	0.678	ug/l #	1
60) Dibromochloromethane	9.34	129	1495	0.610	ug/l #	11
64) Tetrachloroethene	9.34	164	1622	0.663	ug/l #	88
65) Chlorobenzene	10.14	112	4563	0.743	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	63161	25.167	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	63161	58.713	ug/l #	16

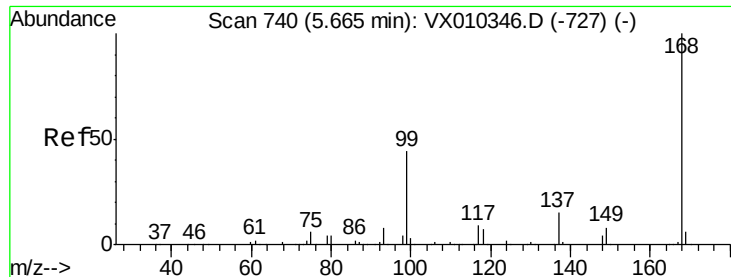
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampled :

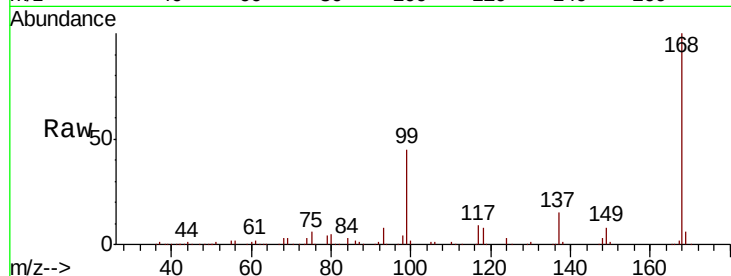
MW-5

Tot Ion:168 Resp: 207043

Ion Ratio Lower Upper

168 100

99 45.4 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

80000

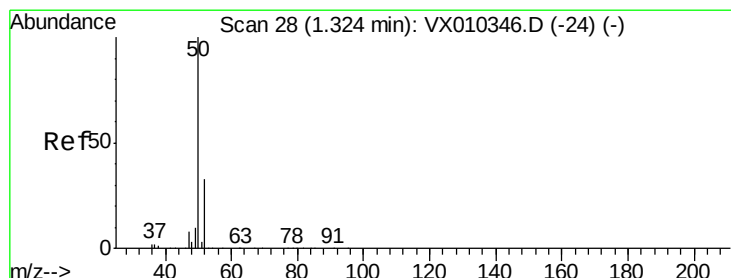
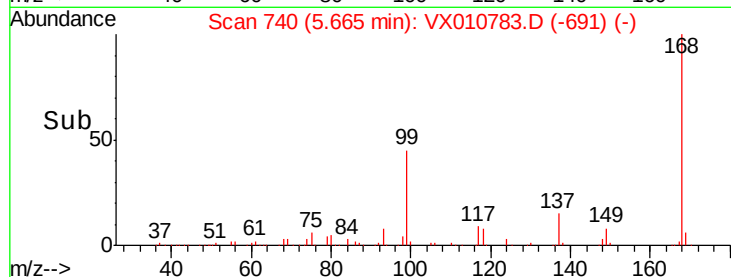
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.264 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010783.D

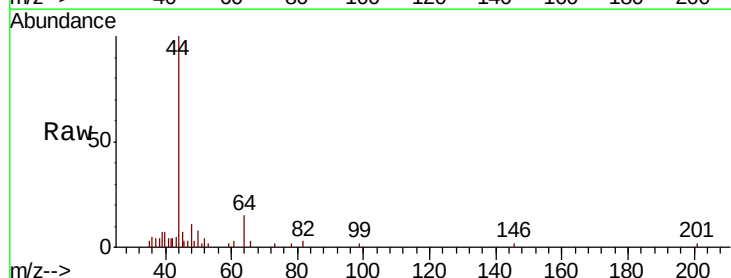
Acq: 10 Jul 2019 17:33

Tgt Ion: 50 Resp: 443

Ion Ratio Lower Upper

50 100

52 15.5 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

250

200

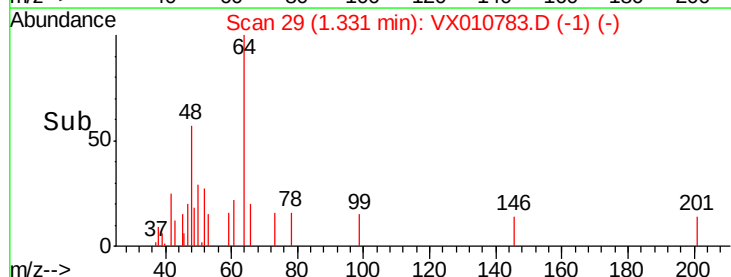
150

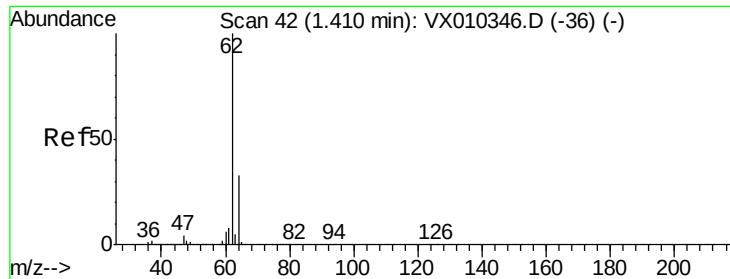
100

50

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 1.600 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampled :

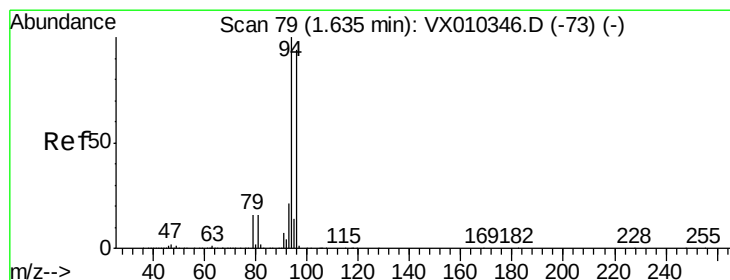
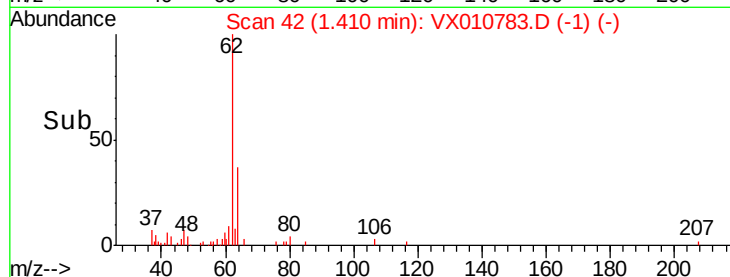
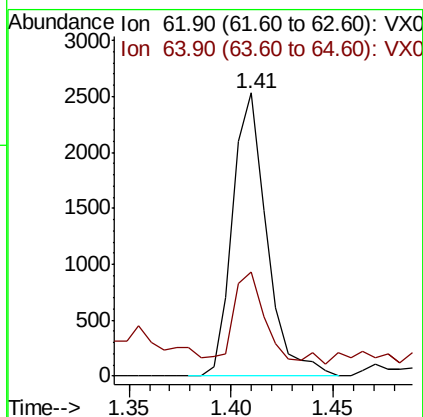
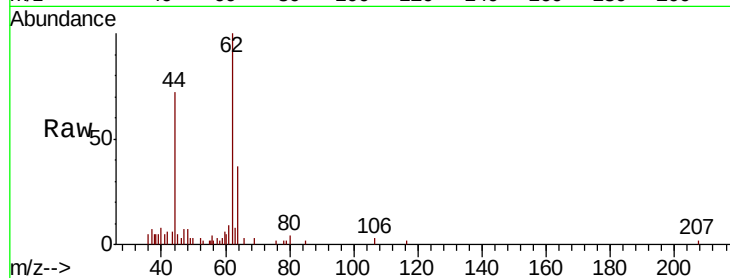
MW-5

Tot Ion: 62 Resp: 2938

Ion Ratio Lower Upper

62 100

64 28.7 26.2 39.4



#5

Bromomethane

Concen: 0.316 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010783.D

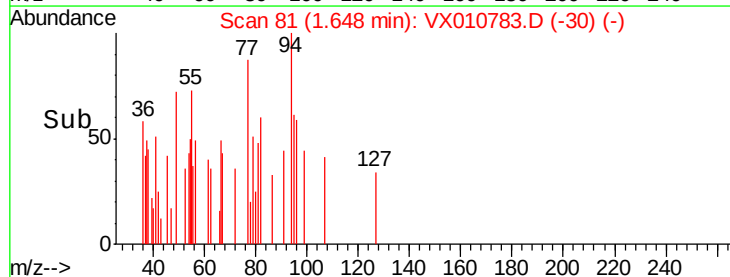
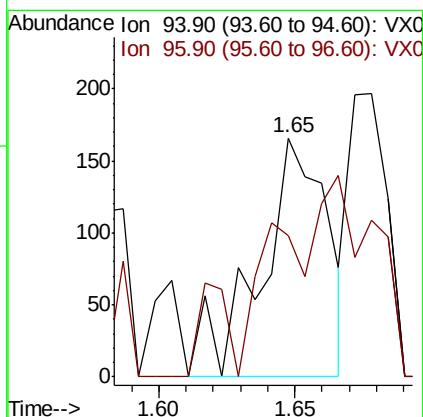
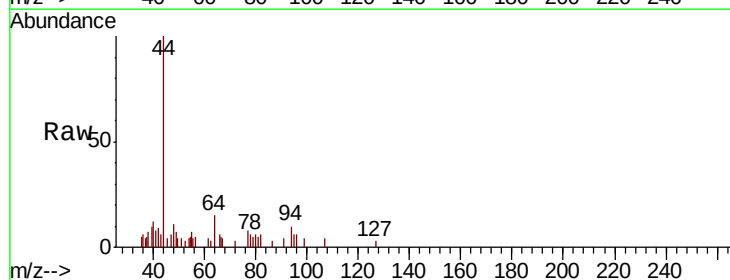
Acq: 10 Jul 2019 17:33

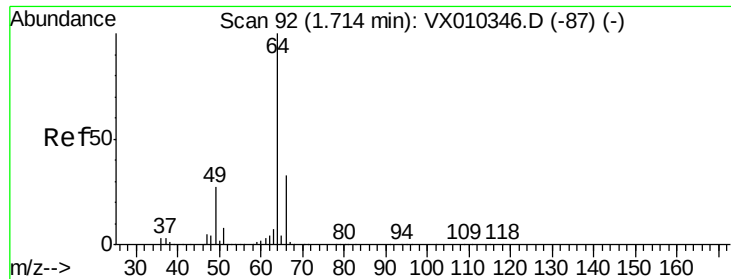
Tgt Ion: 94 Resp: 283

Ion Ratio Lower Upper

94 100

96 59.0 75.5 113.3#





#6

Chloroethane

Concen: 0.224 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampled :

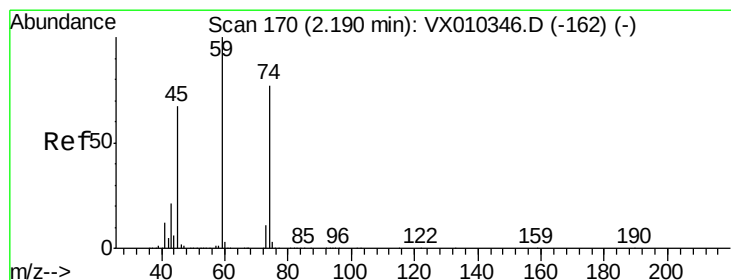
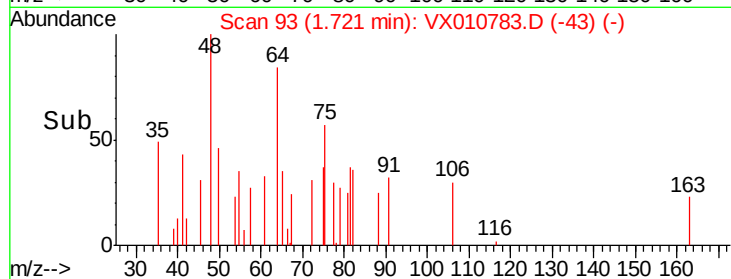
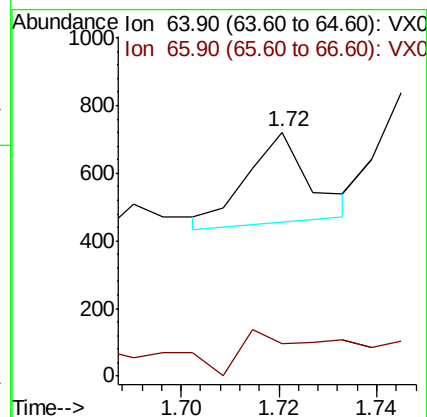
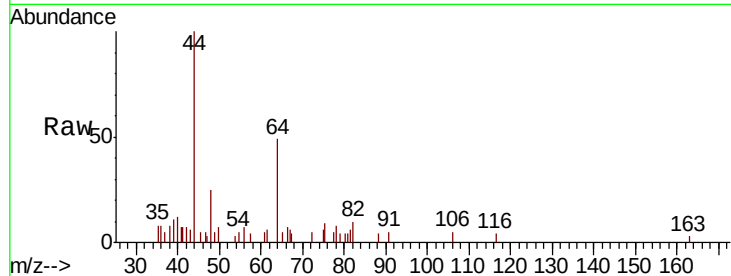
MW-5

Tot Ion: 64 Resp: 243

Ion Ratio Lower Upper

64 100

66 10.0 26.6 40.0#



#8

Diethyl Ether

Concen: 26.298 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX010783.D

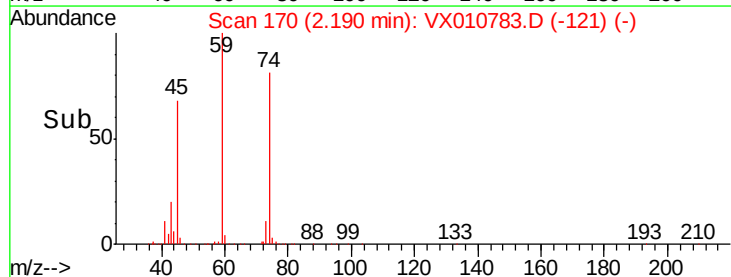
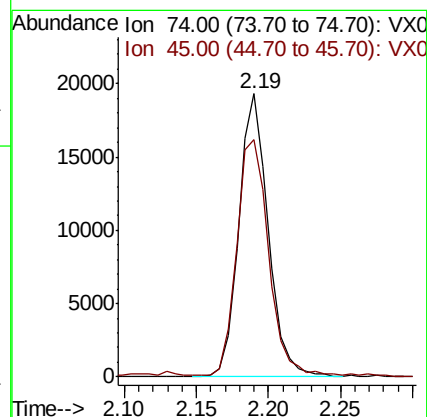
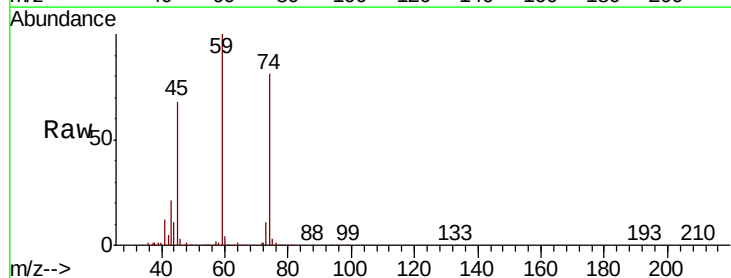
Acq: 10 Jul 2019 17:33

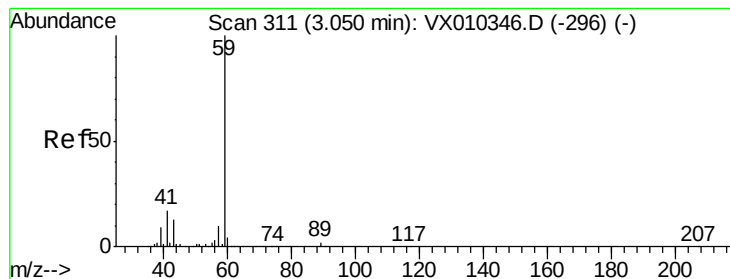
Tgt Ion: 74 Resp: 27446

Ion Ratio Lower Upper

74 100

45 90.4 44.8 134.4



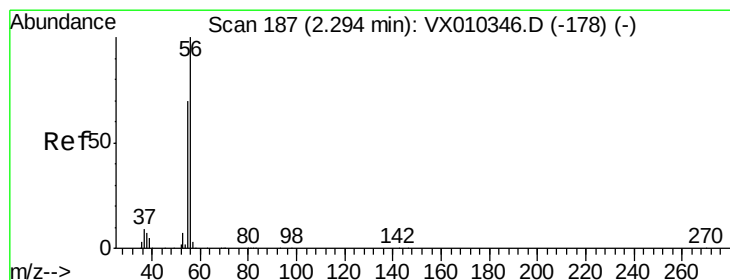
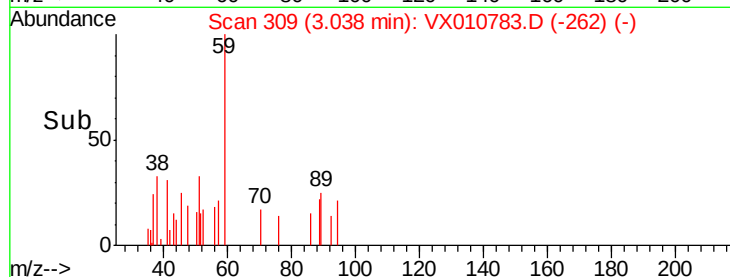
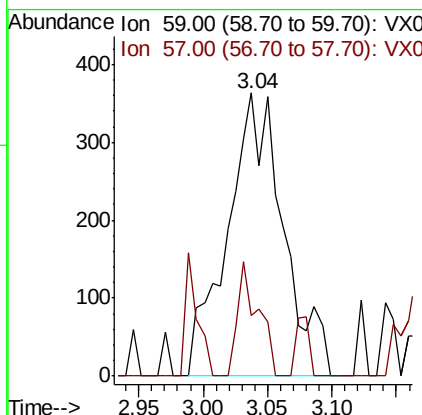
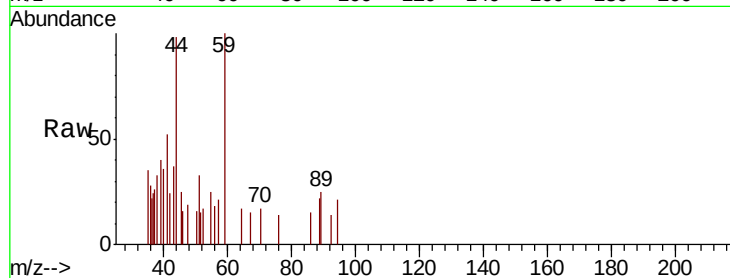


#11

Tert butyl alcohol
 Concen: 2.156 ug/l
 RT: 3.04 min Scan# 309
 Delta R.T. -0.01 min
 Lab File: VX010783.D
 Acq: 10 Jul 2019 17:33

Instrument :
 MSVOA_X
 ClientSampled :
 MW-5

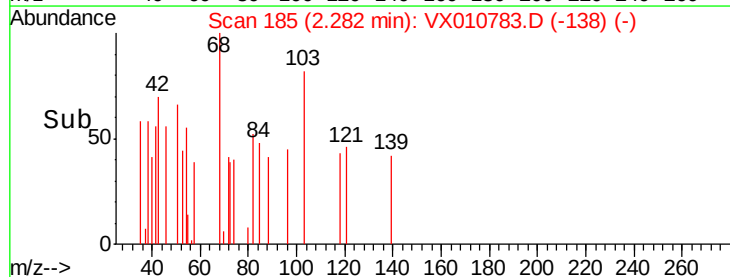
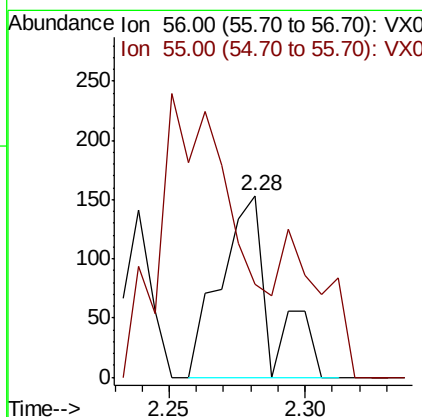
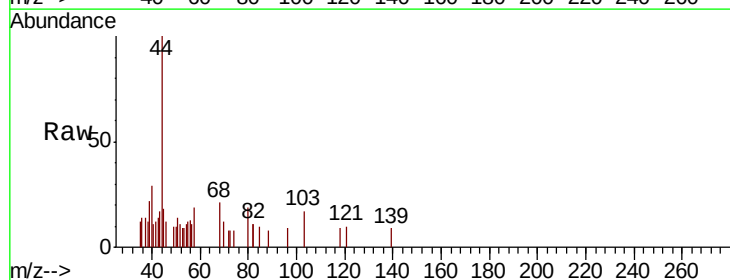
Tot Ion: 59 Resp: 1095
 Ion Ratio Lower Upper
 59 100
 57 14.7 7.7 11.5#

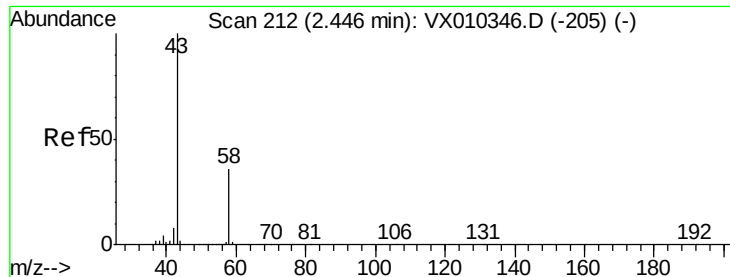


#13

Acrolein
 Concen: 0.591 ug/l
 RT: 2.28 min Scan# 185
 Delta R.T. -0.01 min
 Lab File: VX010783.D
 Acq: 10 Jul 2019 17:33

Tgt Ion: 56 Resp: 199
 Ion Ratio Lower Upper
 56 100
 55 67.3 56.9 85.3





#16

Acetone

Concen: 4.060 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampled :

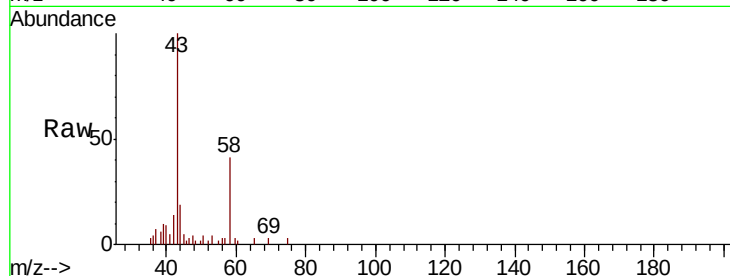
MW-5

Tot Ion: 43 Resp: 3950

Ion Ratio Lower Upper

43 100

58 43.4 28.9 43.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2500

2000

1500

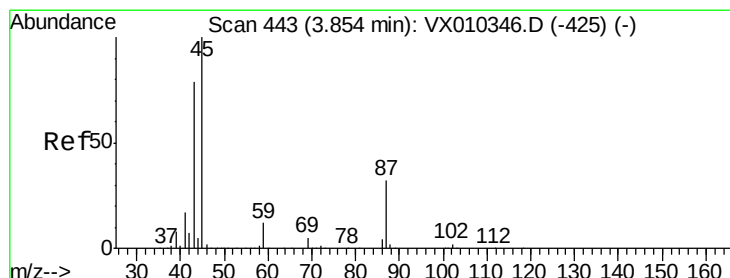
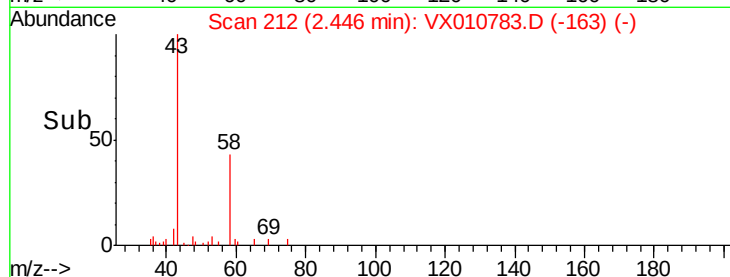
1000

500

0

2.40 2.45 2.50

Time-->



#22

Diisopropyl ether

Concen: 1.429 ug/l

RT: 3.86 min Scan# 444

Delta R.T. 0.01 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Tgt Ion: 45 Resp: 7613

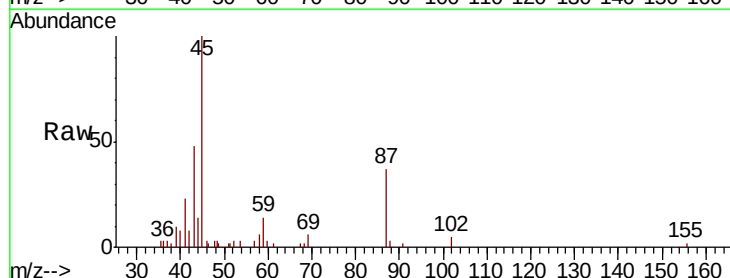
Ion Ratio Lower Upper

45 100

43 49.3 63.3 94.9#

87 38.0 25.8 38.8

59 12.3 9.6 14.4



Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0

4000

3000

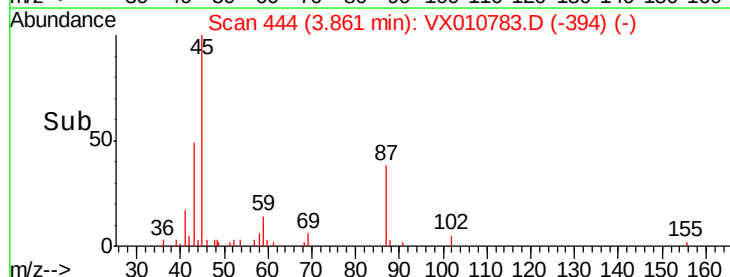
2000

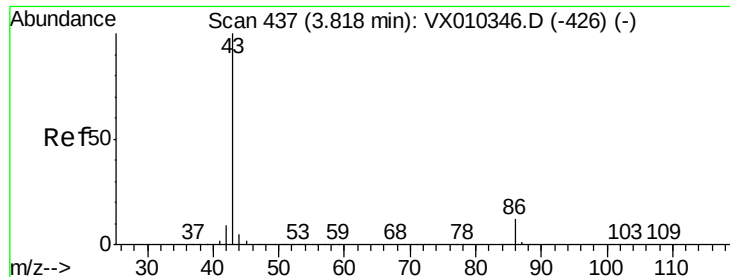
1000

0

3.80 3.86 3.90

Time-->





#23

Vinyl Acetate

Concen: 0.942 ug/l

RT: 3.87 min Scan# 445

Delta R.T. 0.05 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampled :

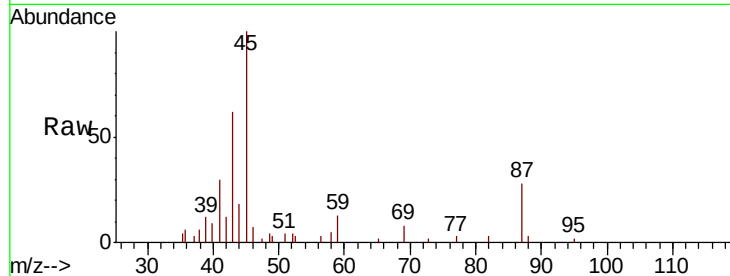
MW-5

Tot Ion: 43 Resp: 4337

Ion Ratio Lower Upper

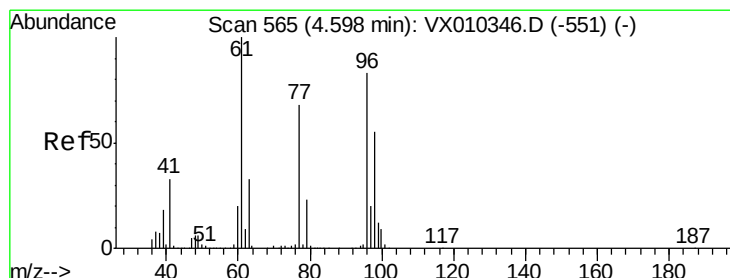
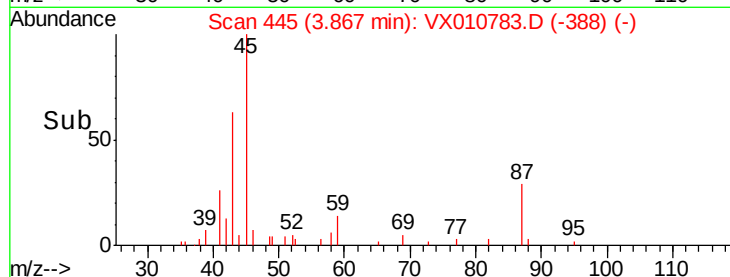
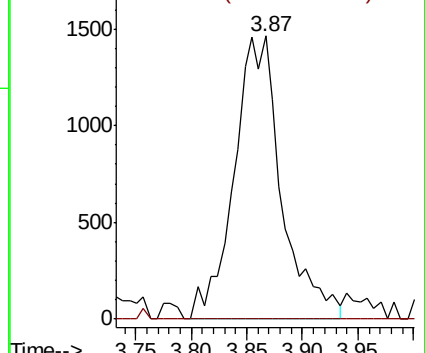
43 100

86 0.0 9.9 14.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 10.587 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

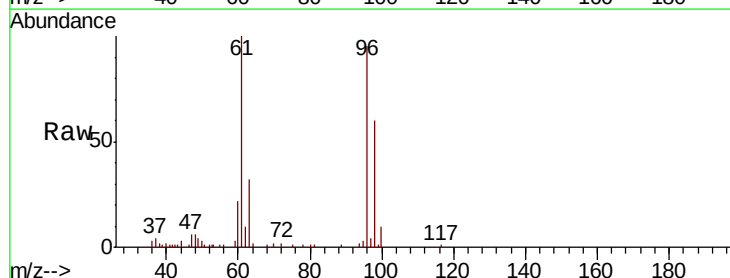
Tgt Ion: 96 Resp: 23613

Ion Ratio Lower Upper

96 100

61 111.3 0.0 251.8

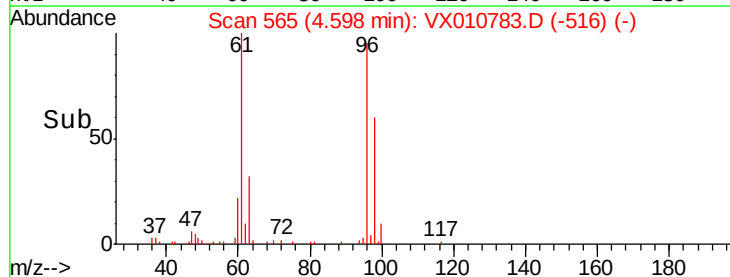
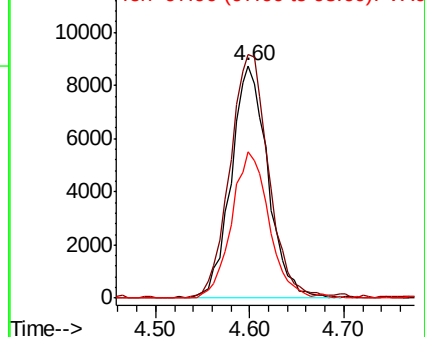
98 64.6 0.0 129.4

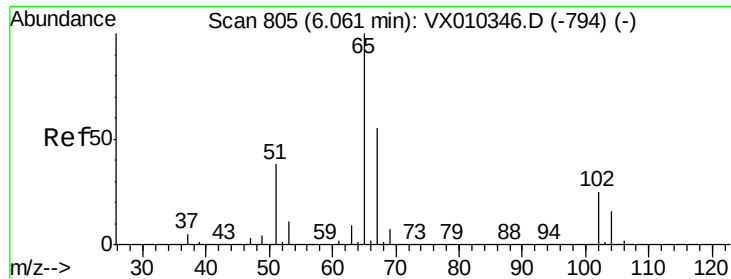


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

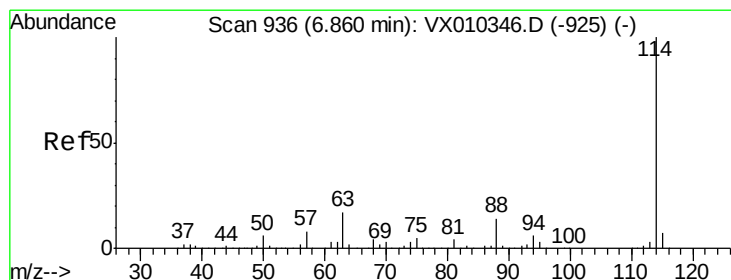
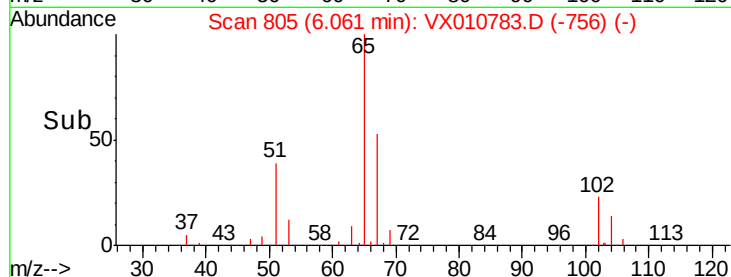
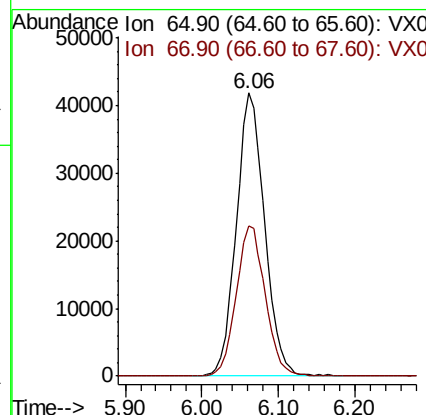
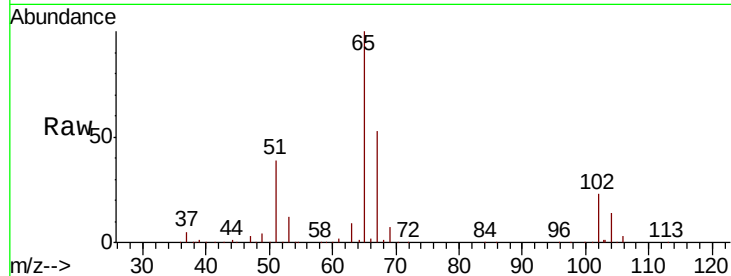




#33
 1,2-Dichloroethane-d4
 Concen: 55.201 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010783.D
 Acq: 10 Jul 2019 17:33

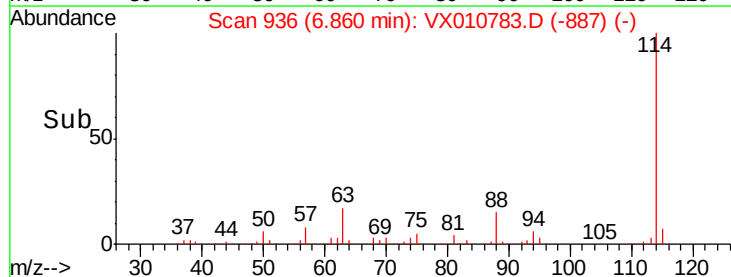
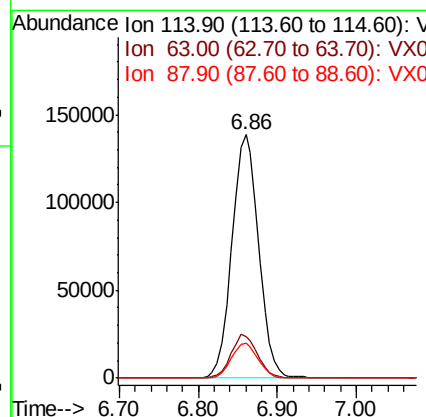
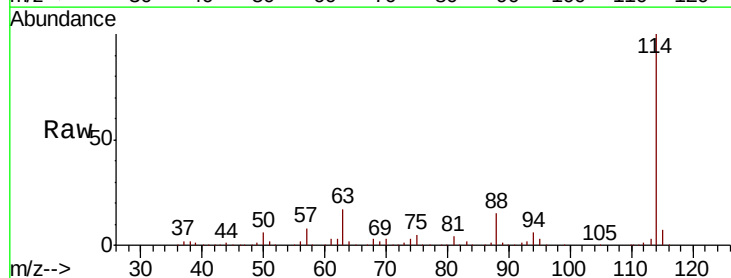
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

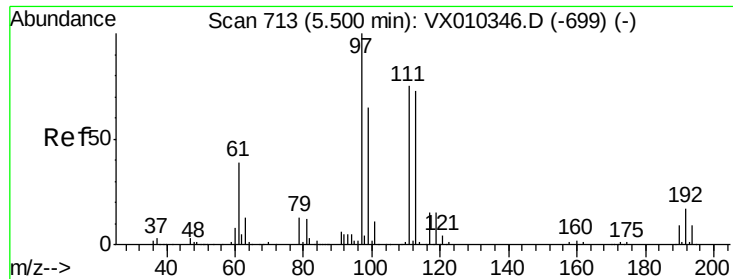
Tot Ion: 65 Resp: 107158
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010783.D
 Acq: 10 Jul 2019 17:33

Tgt Ion: 114 Resp: 325796
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 33.8
 88 14.5 0.0 27.6





#35

Dibromofluoromethane

Concen: 50.615 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

MW-5

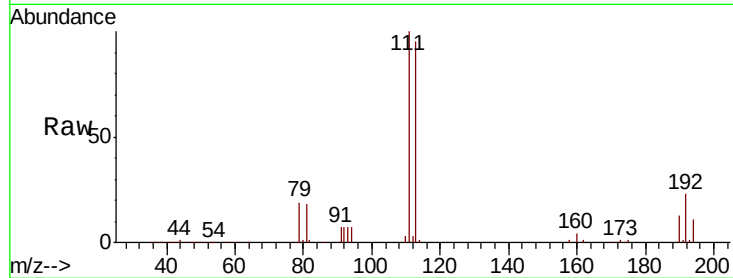
Tot Ion:113 Resp: 100892

Ion Ratio Lower Upper

113 100

111 101.6 81.2 121.8

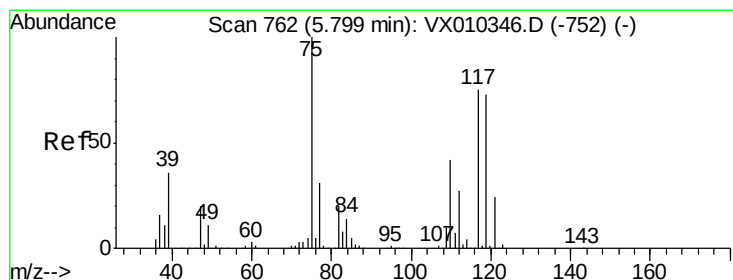
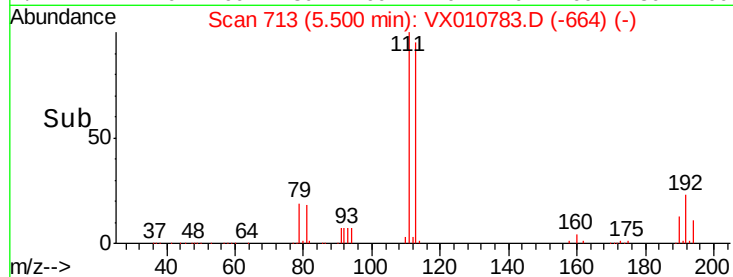
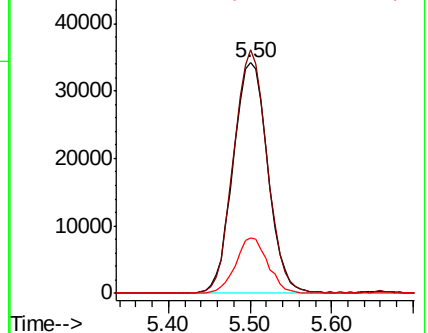
192 22.4 18.6 27.8



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: 5.153 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

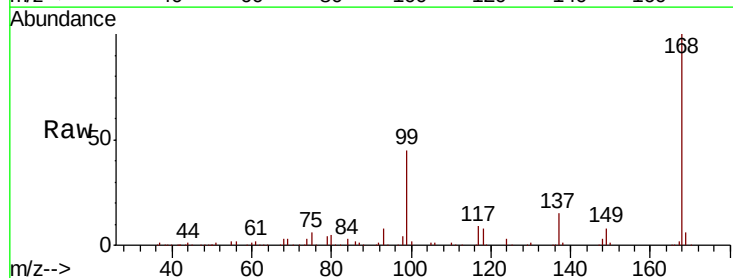
Tgt Ion: 75 Resp: 13342

Ion Ratio Lower Upper

75 100

110 10.6 20.8 62.2#

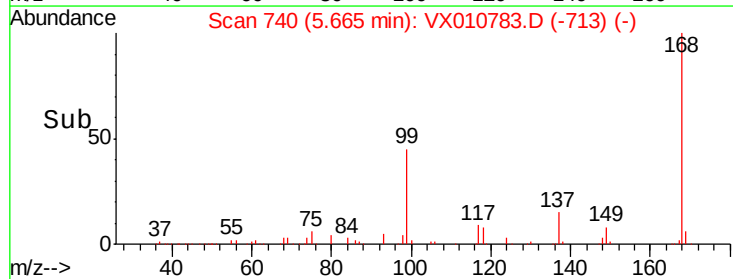
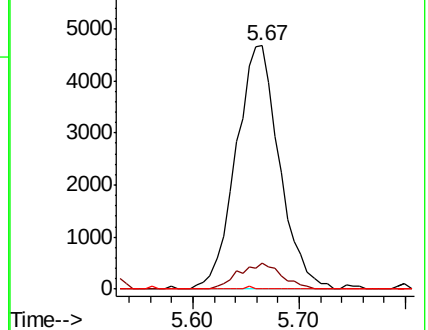
77 0.1 25.4 38.0#

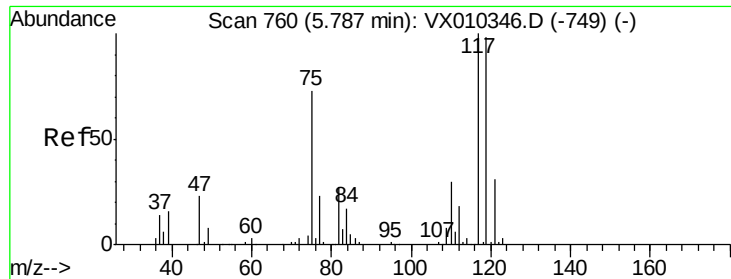


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.634 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampled :

MW-5

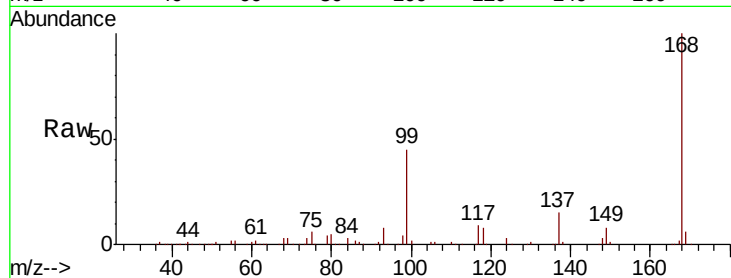
Tot Ion:117 Resp: 18597

Ion Ratio Lower Upper

117 100

119 5.2 78.2 117.4#

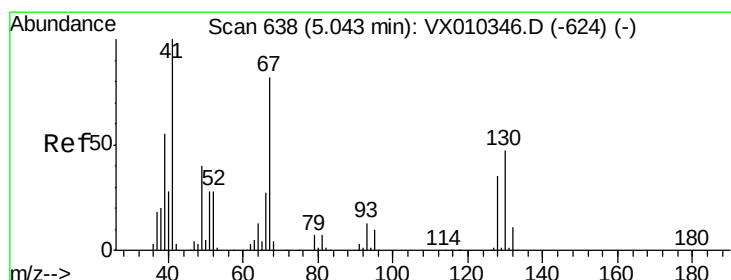
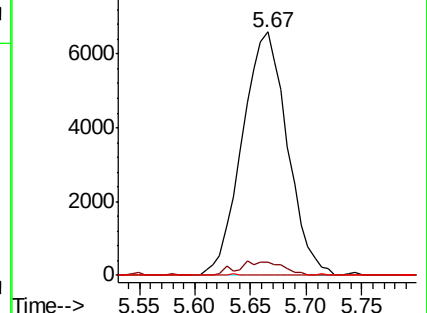
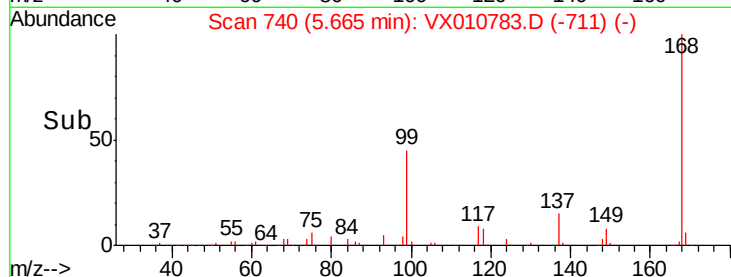
121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 0.326 ug/l

RT: 5.05 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Tgt Ion: 41 Resp: 476

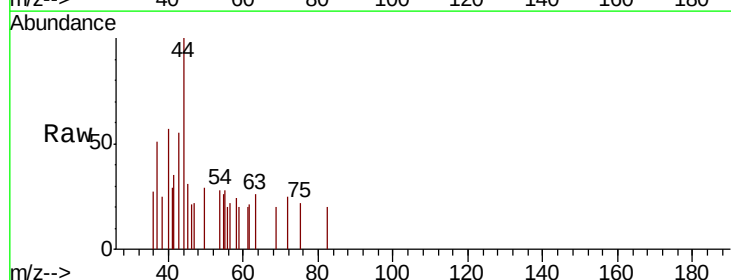
Ion Ratio Lower Upper

41 100

39 0.0 43.8 65.8#

67 0.0 66.6 100.0#

52 0.0 24.5 36.7#

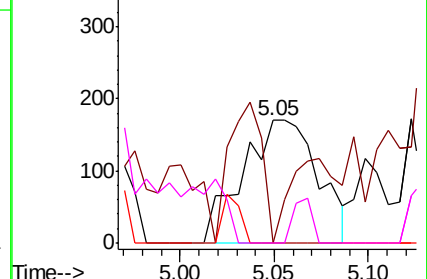
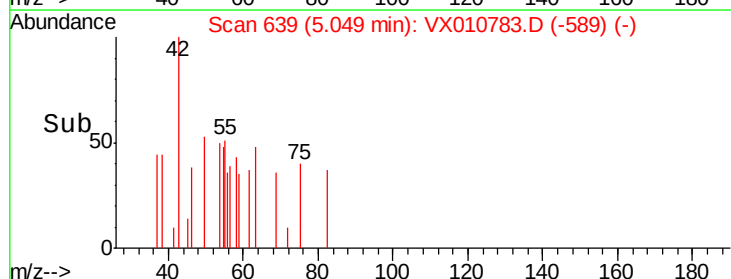


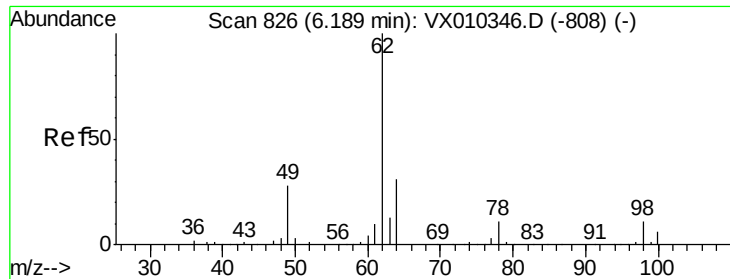
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

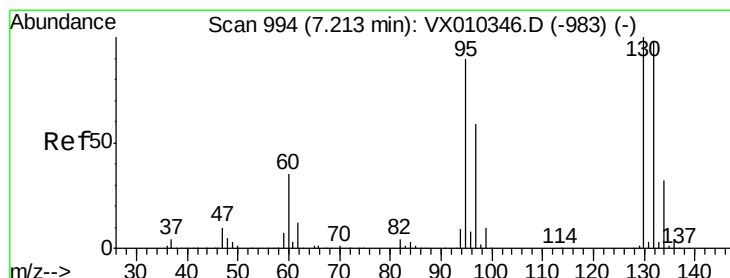
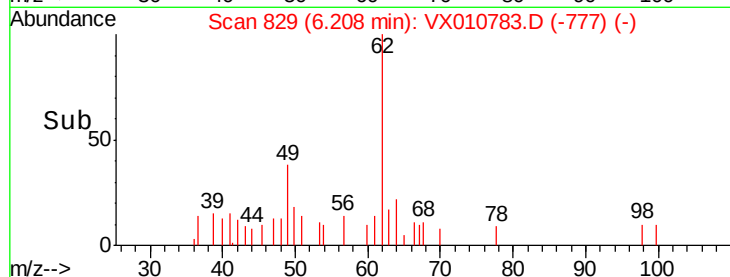
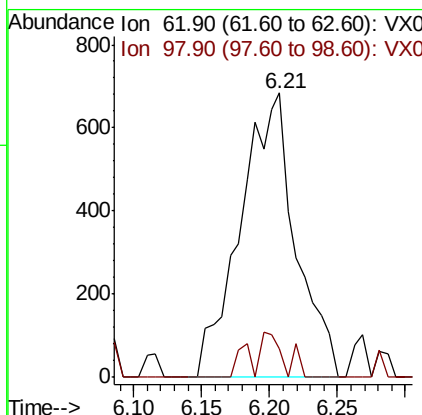
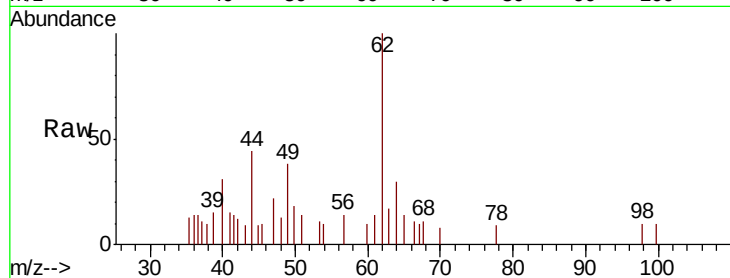




#42
 1,2-Dichloroethane
 Concen: 0.791 ug/l
 RT: 6.21 min Scan# 829
 Delta R.T. 0.02 min
 Lab File: VX010783.D
 Acq: 10 Jul 2019 17:33

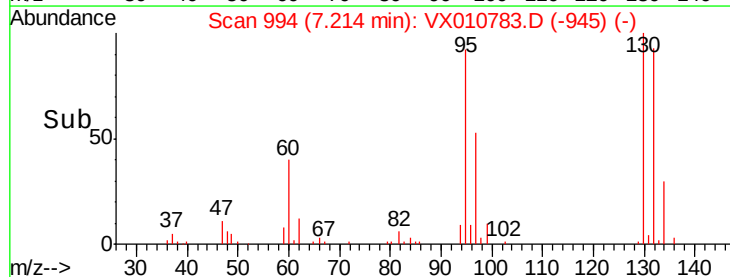
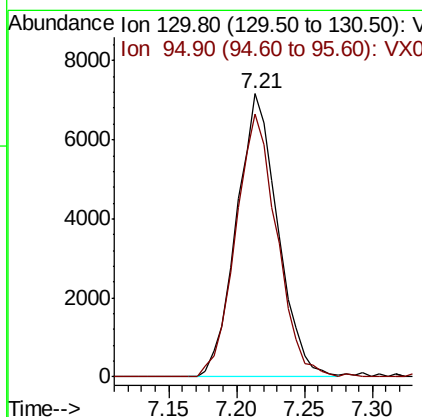
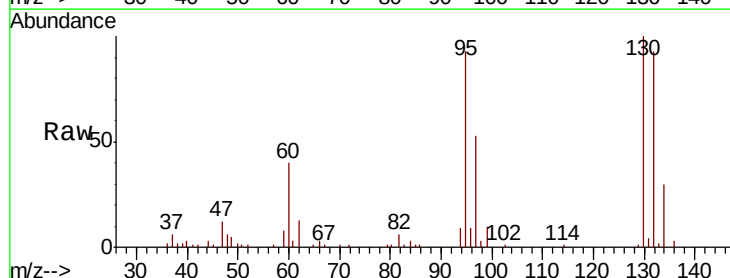
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

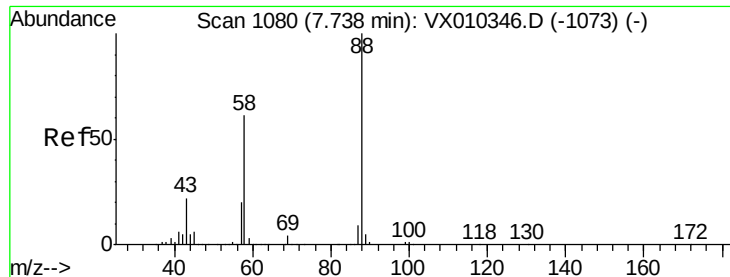
Tot Ion: 62 Resp: 1941
 Ion Ratio Lower Upper
 62 100
 98 5.2 0.0 22.2



#44
 Trichloroethene
 Concen: 6.286 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX010783.D
 Acq: 10 Jul 2019 17:33

Tgt Ion:130 Resp: 15171
 Ion Ratio Lower Upper
 130 100
 95 93.0 0.0 180.8

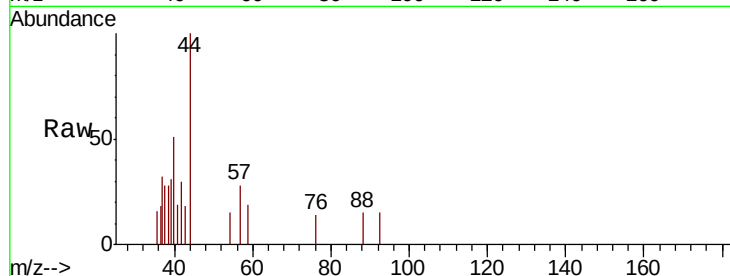




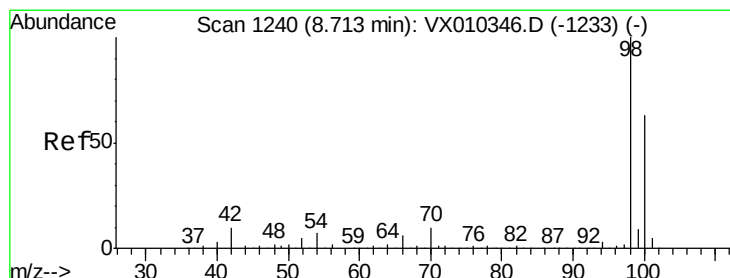
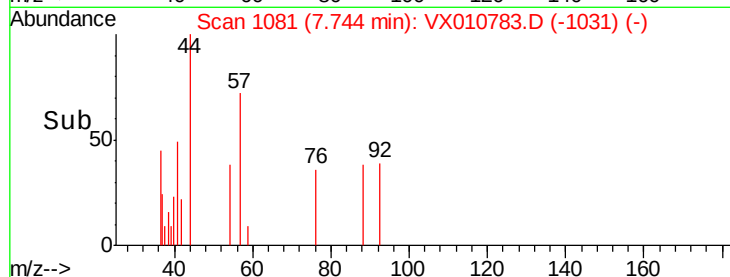
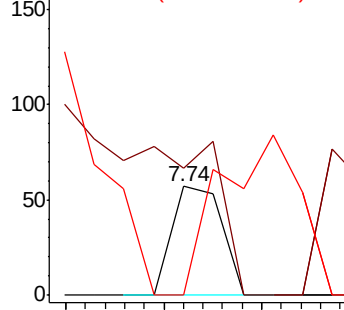
#49
1,4-Dioxane
Concen: 0.678 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX010783.D
Acq: 10 Jul 2019 17:33

Instrument :
MSVOA_X
ClientSampleId :
MW-5

Tot Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 237.5 49.5 74.3#

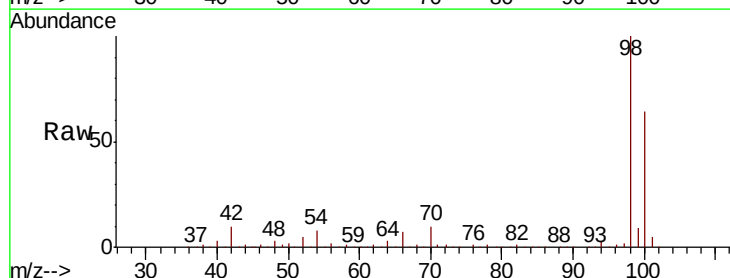


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

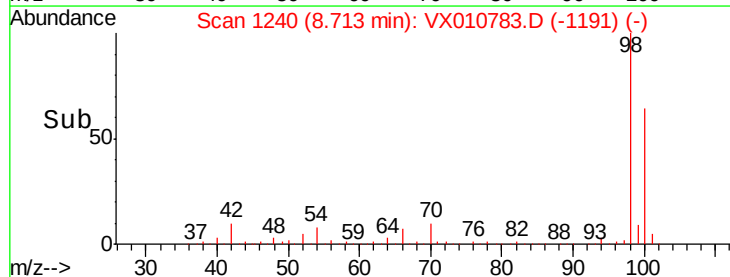
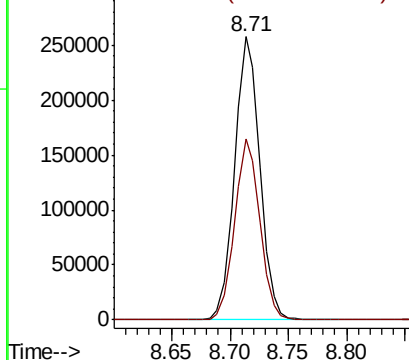


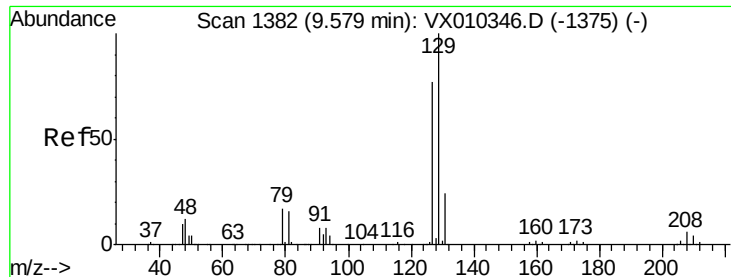
#50
Toluene-d8
Concen: 50.936 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010783.D
Acq: 10 Jul 2019 17:33

Tgt Ion: 98 Resp: 388448
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.610 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

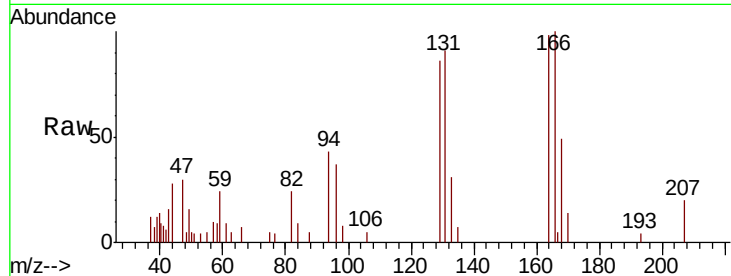
MW-5

Tot Ion:129 Resp: 1495

Ion Ratio Lower Upper

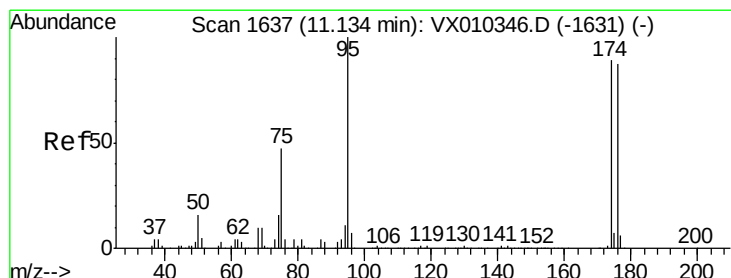
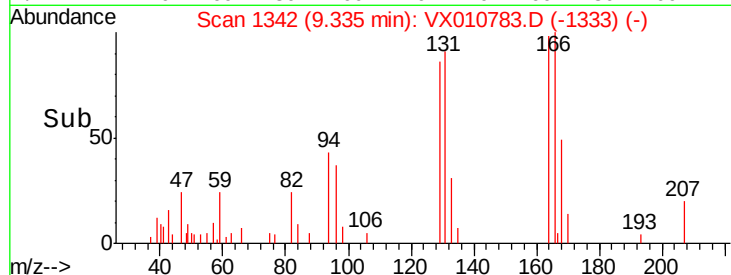
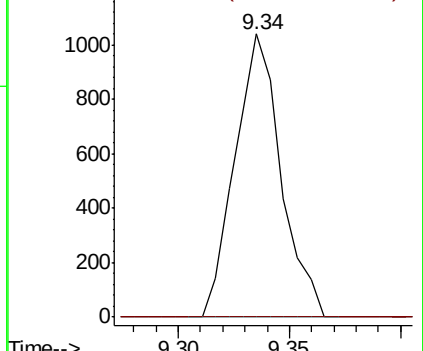
129 100

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: 47.903 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

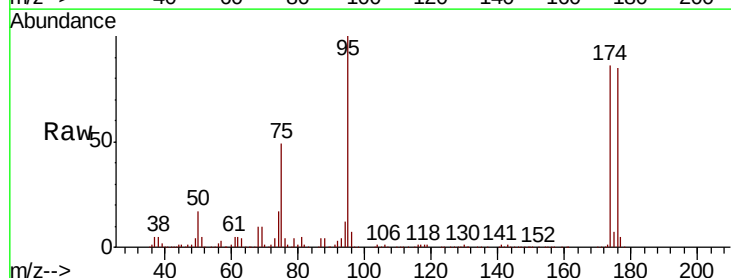
Tgt Ion: 95 Resp: 131888

Ion Ratio Lower Upper

95 100

174 93.8 0.0 187.6

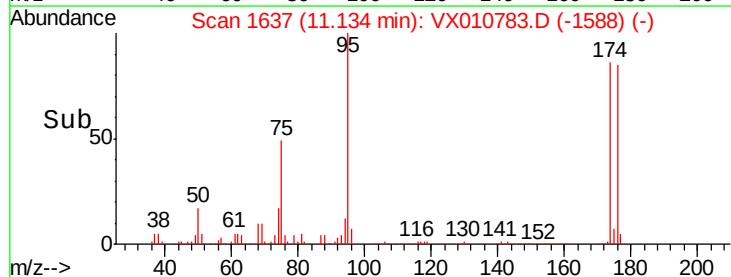
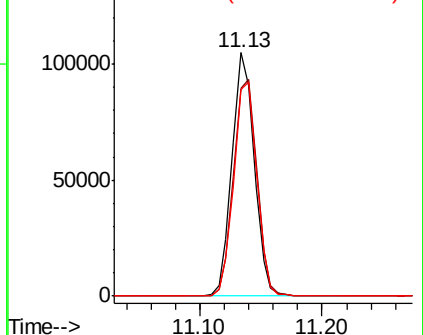
176 91.0 0.0 184.0

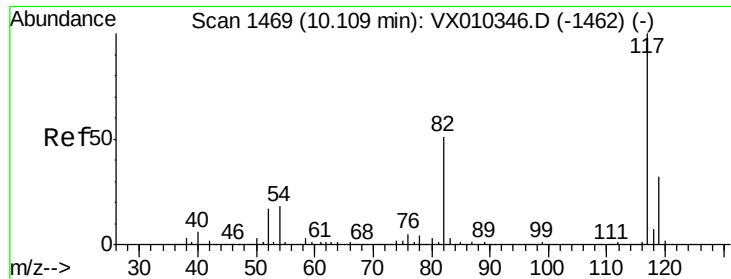


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

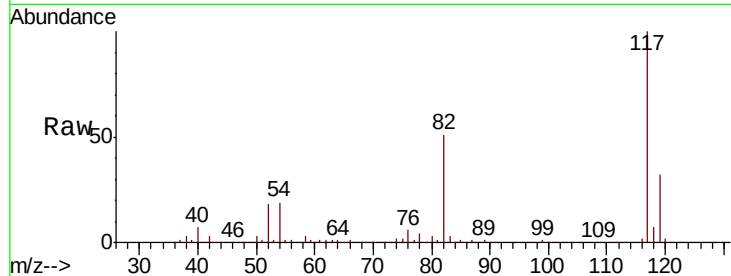




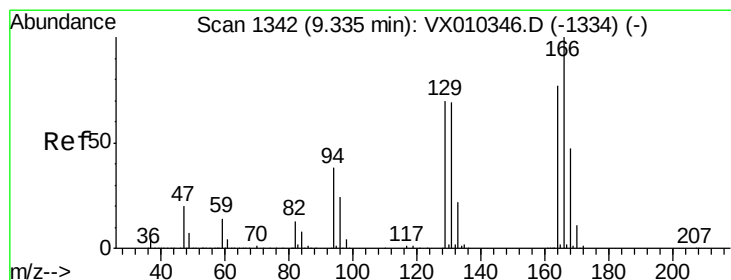
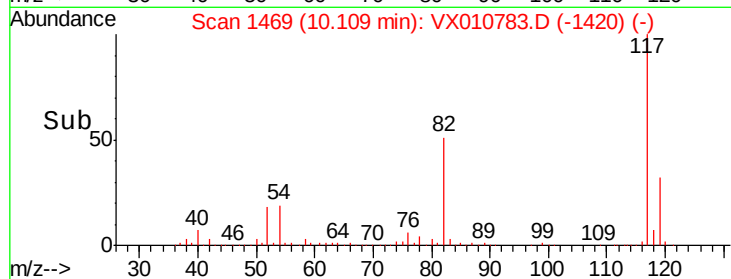
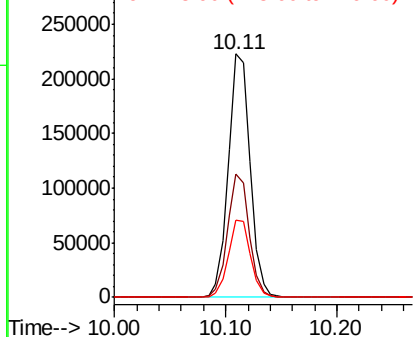
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010783.D
Acq: 10 Jul 2019 17:33

Instrument :
MSVOA_X
ClientSampleId :
MW-5

Tot Ion:117 Resp: 302362
Ion Ratio Lower Upper
117 100
82 50.8 41.2 61.8
119 31.6 25.5 38.3

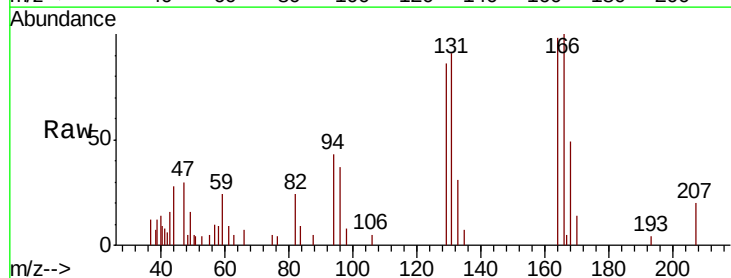


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

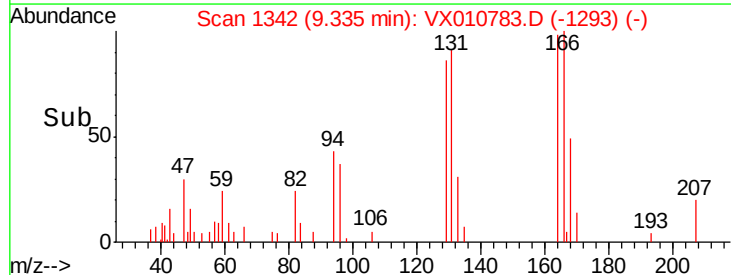
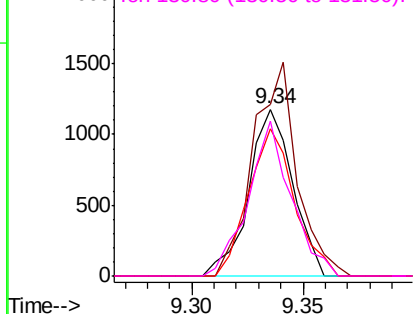


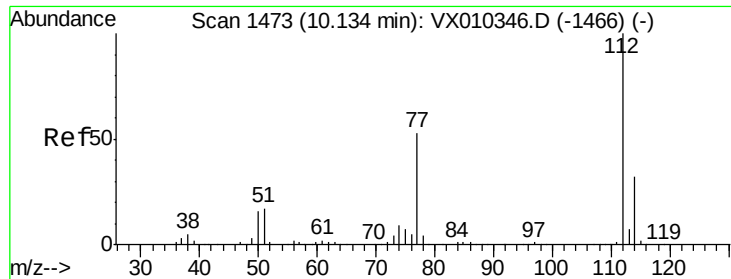
#64
Tetrachloroethene
Concen: 0.663 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX010783.D
Acq: 10 Jul 2019 17:33

Tgt Ion:164 Resp: 1622
Ion Ratio Lower Upper
164 100
166 102.4 103.6 155.4#
129 88.2 73.0 109.4
131 92.8 71.0 106.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

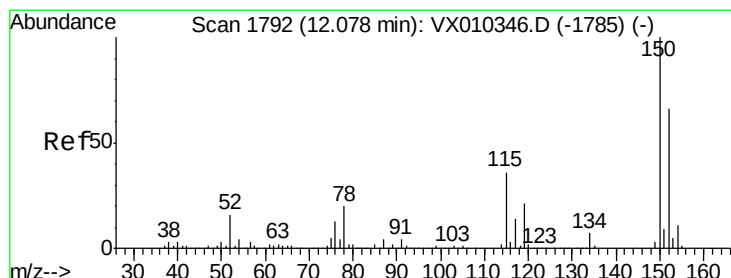
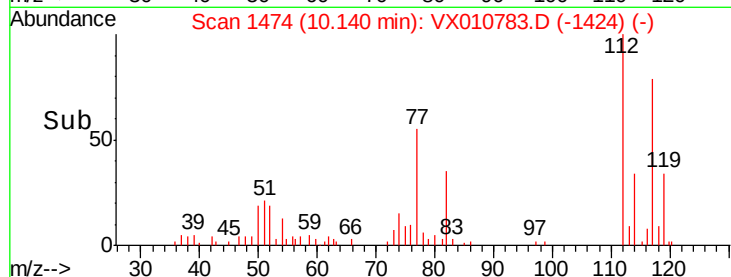
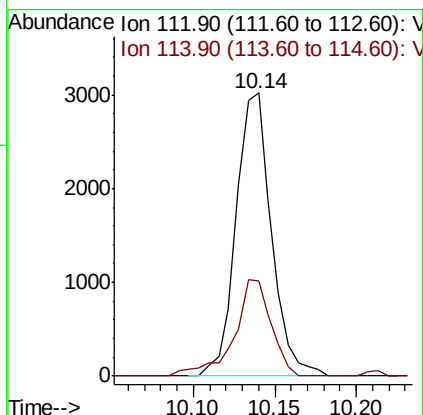
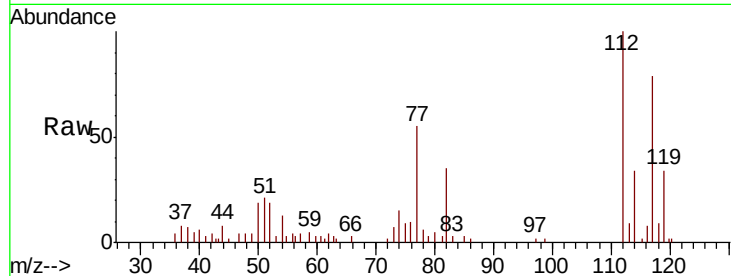




#65
Chlorobenzene
Concen: 0.743 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010783.D
Acq: 10 Jul 2019 17:33

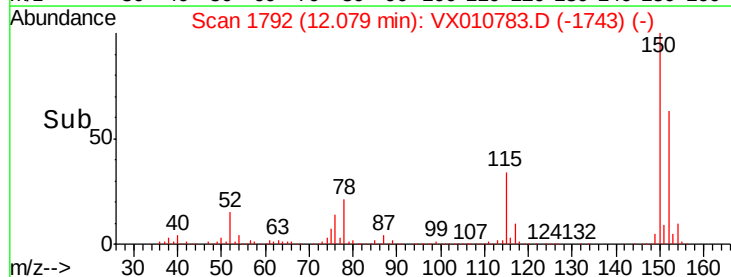
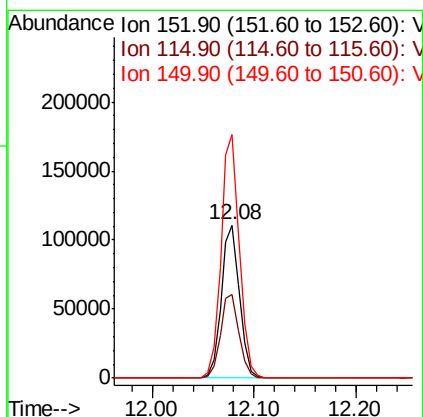
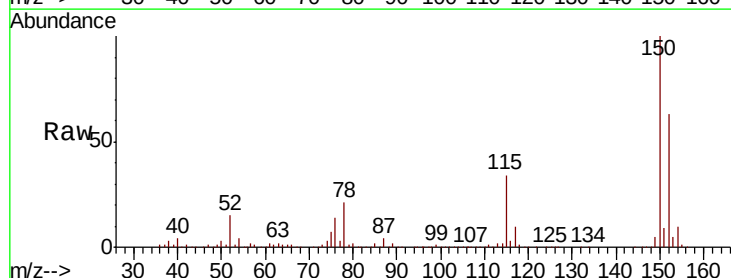
Instrument :
MSVOA_X
ClientSampled :
MW-5

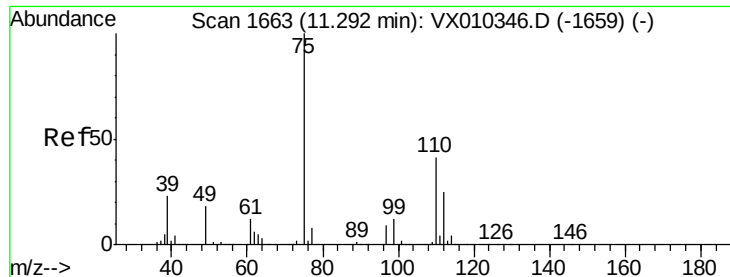
Tot Ion:112 Resp: 4563
Ion Ratio Lower Upper
112 100
114 33.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010783.D
Acq: 10 Jul 2019 17:33

Tgt Ion:152 Resp: 137721
Ion Ratio Lower Upper
152 100
115 56.0 38.6 115.7
150 159.6 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 25.167 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

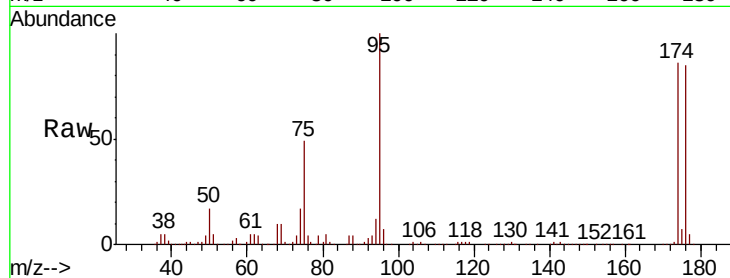
MW-5

Tot Ion: 75 Resp: 63161

Ion Ratio Lower Upper

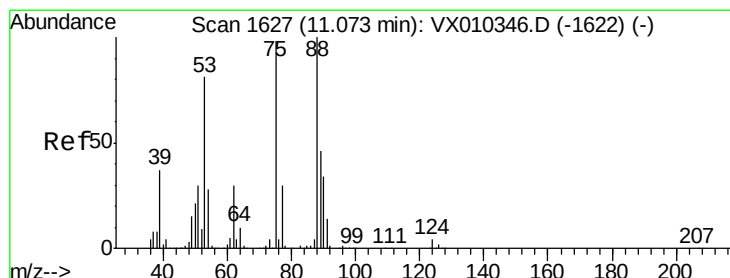
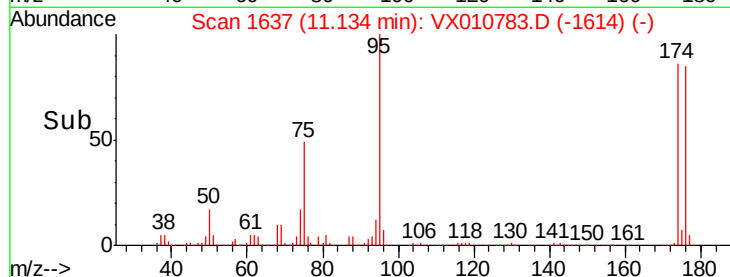
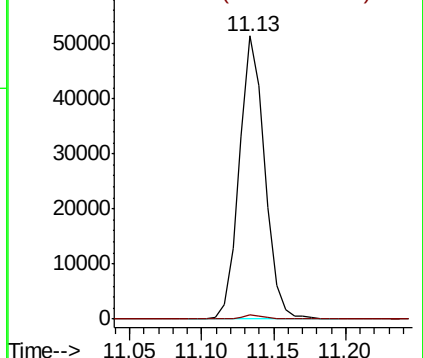
75 100

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: 58.713 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010783.D

Acq: 10 Jul 2019 17:33

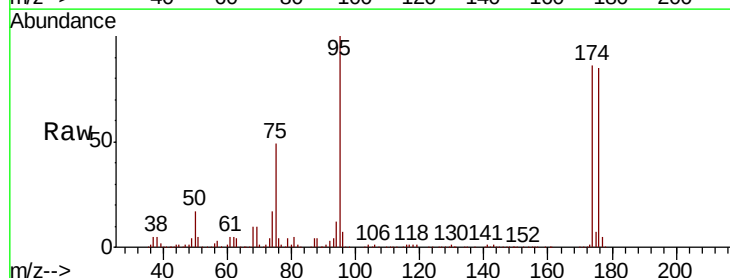
Tgt Ion: 75 Resp: 63161

Ion Ratio Lower Upper

75 100

53 0.2 66.1 99.1#

89 0.1 37.8 56.6#



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

