

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121720\
 Data File : VX020077.D
 Acq On : 16 Dec 2020 19:50
 Operator : JC/MD
 Sample : L5040-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Dec 17 00:32:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	289086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	480882	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	449343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	187669	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	188962	49.73	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.46%
35) Dibromofluoromethane	5.46	113	151664	48.80	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.60%
50) Toluene-d8	8.70	98	586761	49.45	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.90%
62) 4-Bromofluorobenzene	11.12	95	204730	45.33	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.66%

Target Compounds

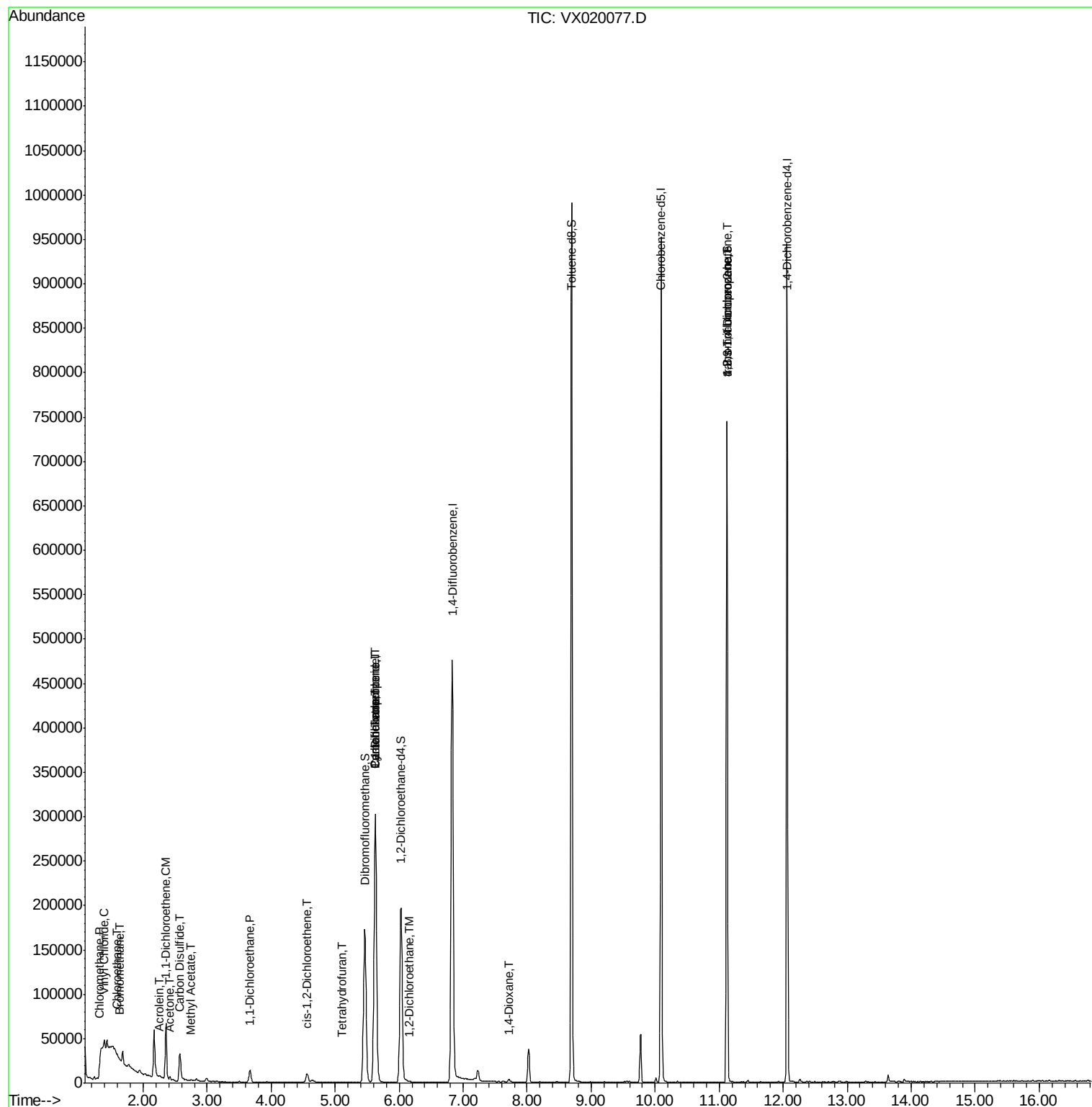
					Qvalue
3) Chloromethane	1.31	50	1756	0.564 ug/l #	76
4) Vinyl Chloride	1.39	62	5644	1.720 ug/l	92
5) Bromomethane	1.64	94	540	0.496 ug/l	84
6) Chloroethane	1.60	64	28384	14.397 ug/l #	52
12) 1,1-Dichloroethene	2.36	96	21222	8.012 ug/l	95
13) Acrolein	2.26	56	173	0.413 ug/l #	35
16) Acetone	2.42	43	4757	3.331 ug/l	97
17) Carbon Disulfide	2.56	76	1914	0.252 ug/l	99
18) Methyl Acetate	2.75	43	837	0.240 ug/l #	70
20) Methylene Chloride	2.83	84	891	Below Cal #	92
24) 1,1-Dichloroethane	3.67	63	15246	2.795 ug/l	99
27) cis-1,2-Dichloroethene	4.56	96	6184	1.711 ug/l	97
29) Tetrahydrofuran	5.10	42	439	0.310 ug/l #	34
31) Cyclohexane	5.63	56	5942	1.257 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22387	5.152 ug/l #	49
38) Carbon Tetrachloride	5.63	117	28391	6.672 ug/l #	17
42) 1,2-Dichloroethane	6.15	62	1143	0.252 ug/l #	73
49) 1,4-Dioxane	7.71	88	2253	26.511 ug/l #	94
76) 1,2,3-Trichloropropane	11.12	75	100270	23.822 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	100270	68.866 ug/l #	13

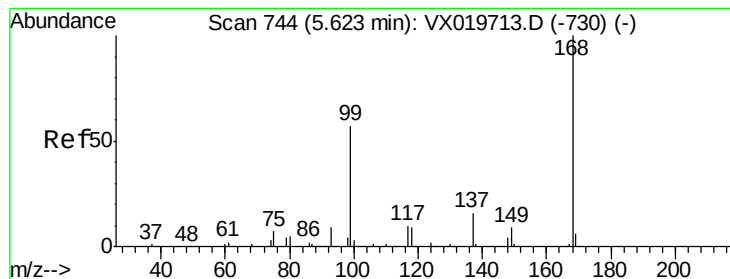
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
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QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampled :

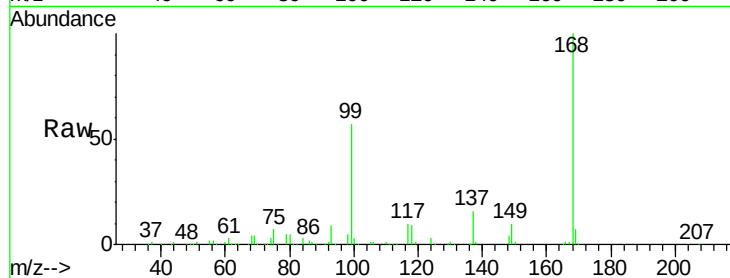
MW-3

Tgt Ion: 168 Resp: 289086

Ion Ratio Lower Upper

168 100

99 57.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

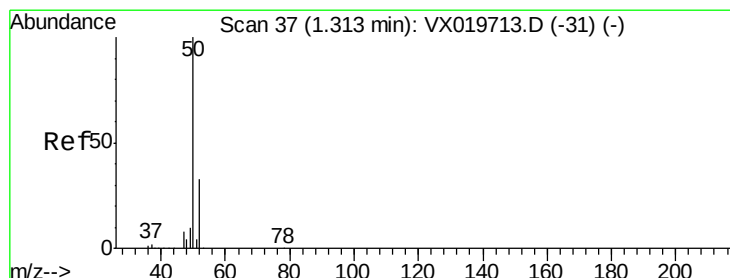
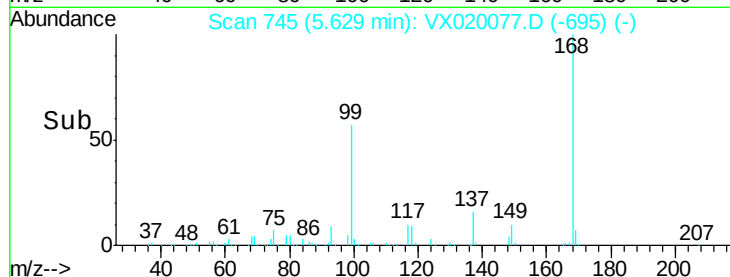
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.564 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX020077.D

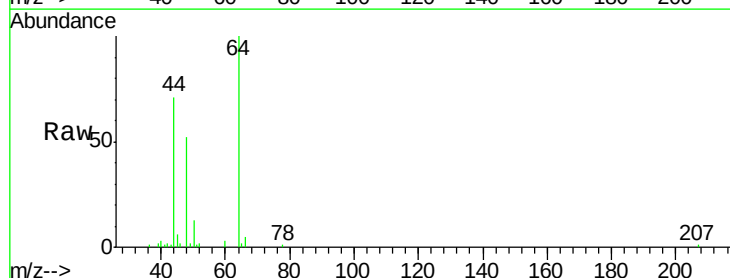
Acq: 16 Dec 2020 19:50

Tgt Ion: 50 Resp: 1756

Ion Ratio Lower Upper

50 100

52 19.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

800

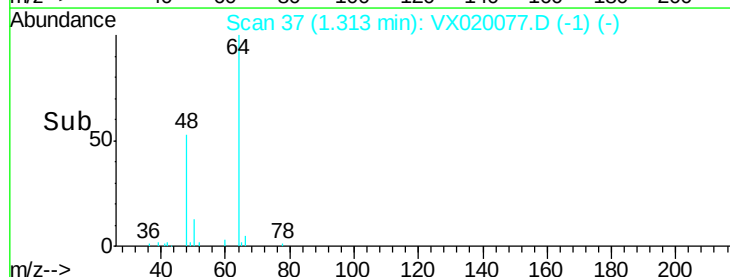
600

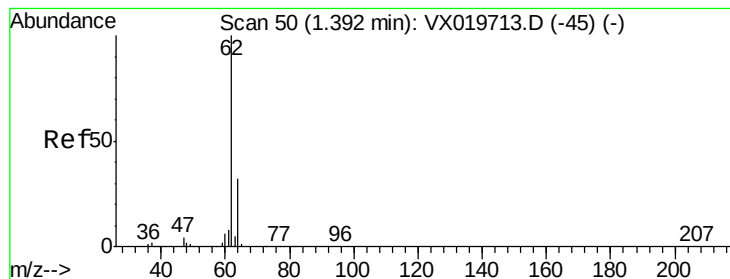
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 1.720 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampled :

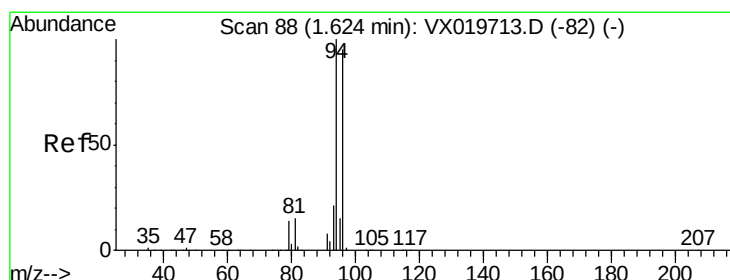
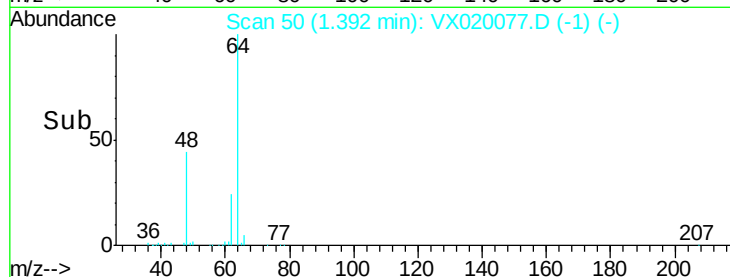
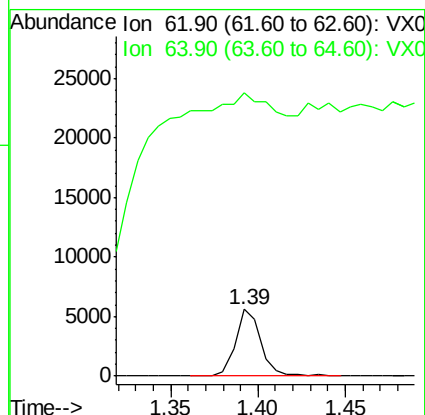
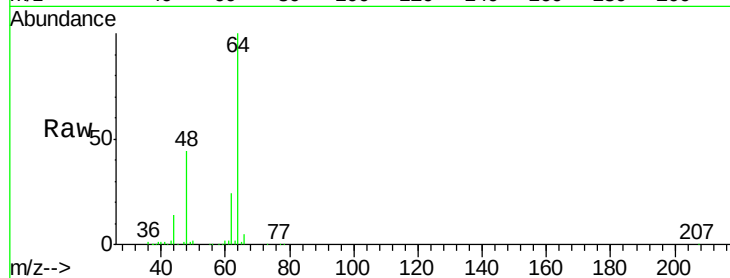
MW-3

Tgt Ion: 62 Resp: 5644

Ion Ratio Lower Upper

62 100

64 27.7 25.7 38.5



#5

Bromomethane

Concen: 0.496 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020077.D

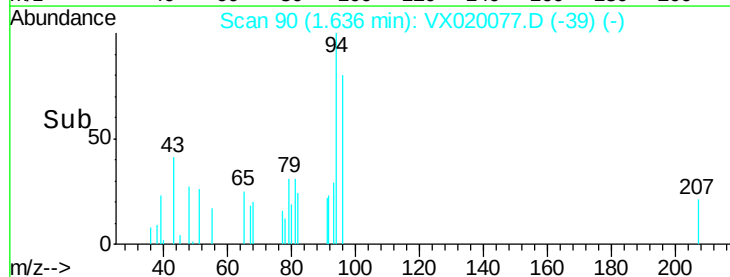
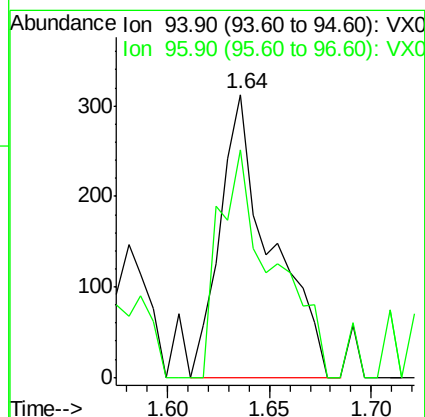
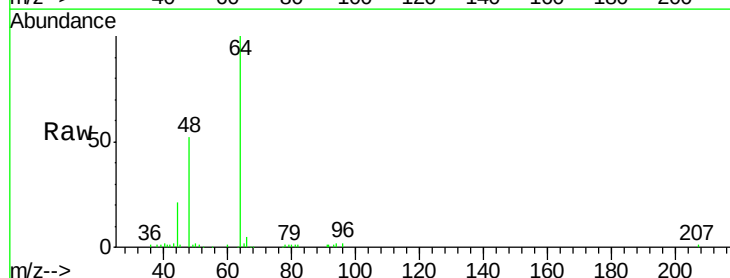
Acq: 16 Dec 2020 19:50

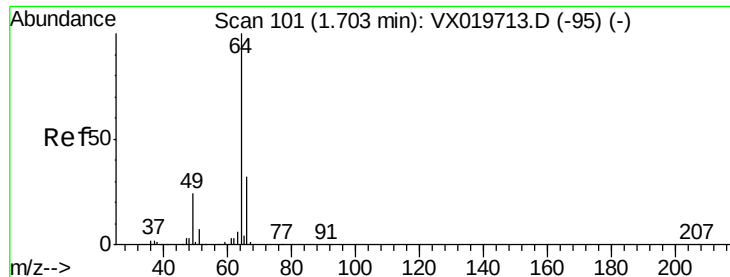
Tgt Ion: 94 Resp: 540

Ion Ratio Lower Upper

94 100

96 80.2 76.4 114.6





#6

Chloroethane

Concen: 14.397 ug/l

RT: 1.60 min Scan# 84

Delta R.T. -0.10 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampled :

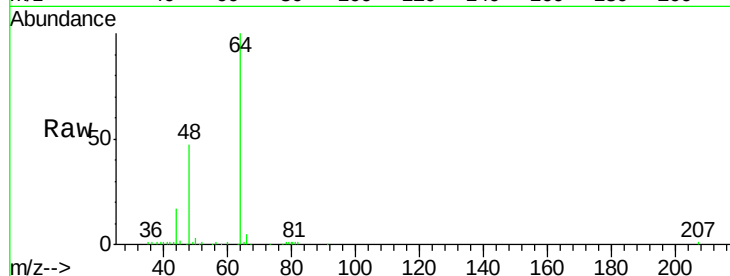
MW-3

Tgt Ion: 64 Resp: 28384

Ion Ratio Lower Upper

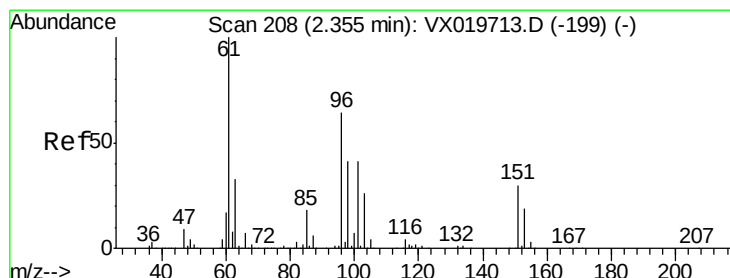
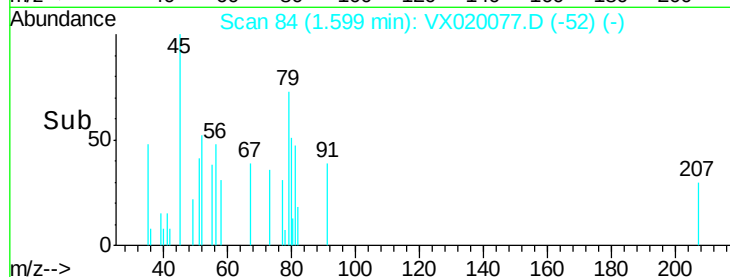
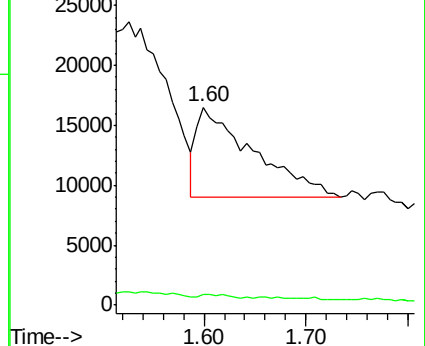
64 100

66 5.2 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#12

1,1-Dichloroethene

Concen: 8.012 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

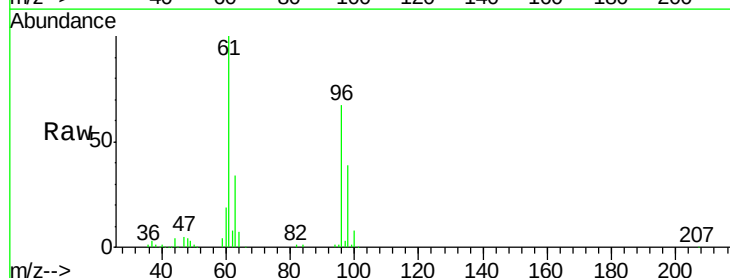
Tgt Ion: 96 Resp: 21222

Ion Ratio Lower Upper

96 100

61 149.4 124.6 187.0

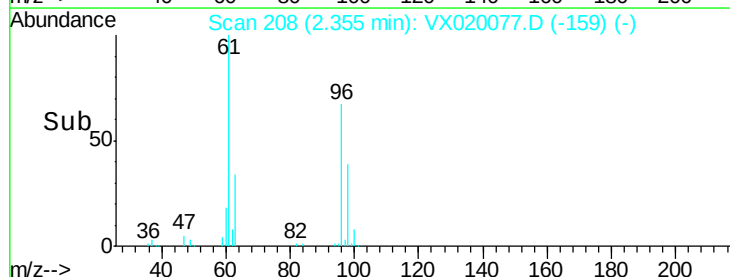
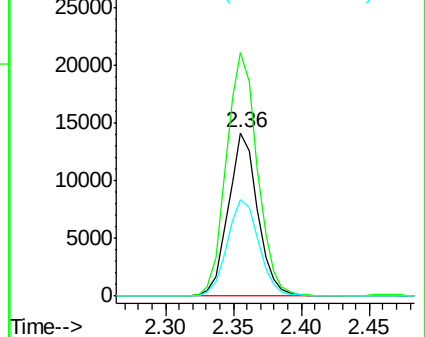
98 59.0 50.6 76.0

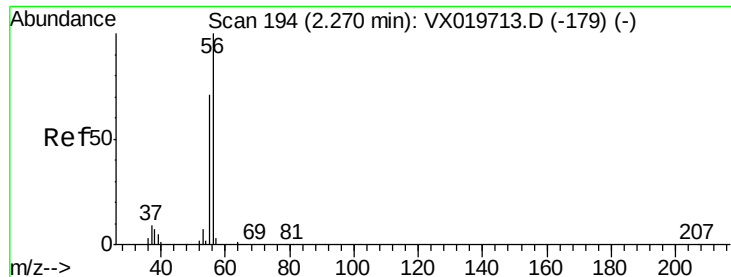


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 0.413 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampled :

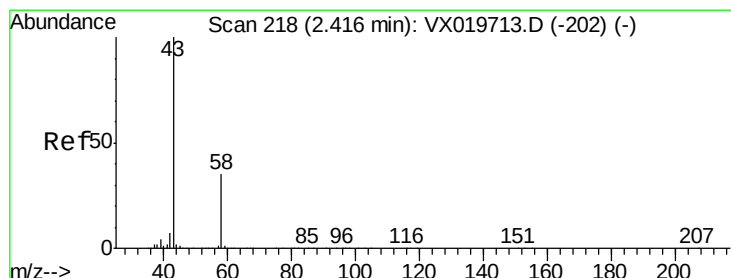
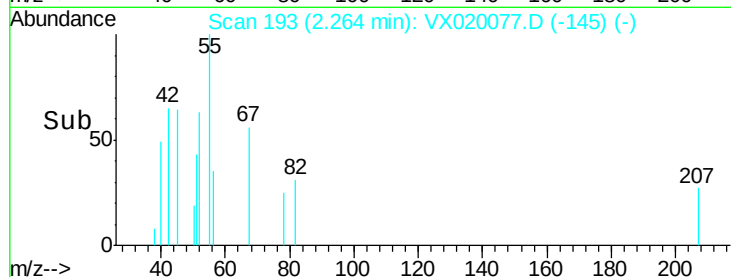
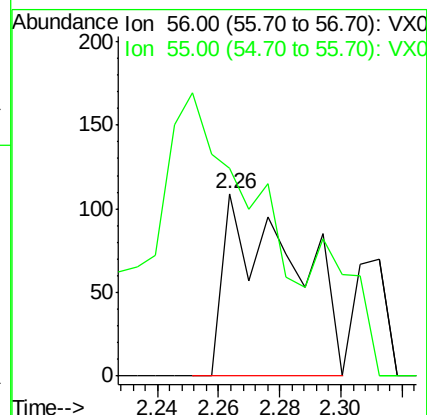
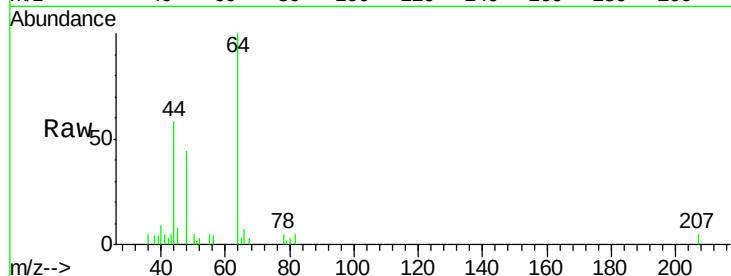
MW-3

Tgt Ion: 56 Resp: 173

Ion Ratio Lower Upper

56 100

55 123.7 56.4 84.6#



#16

Acetone

Concen: 3.331 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX020077.D

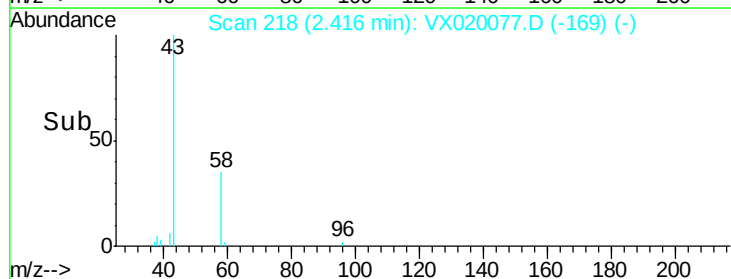
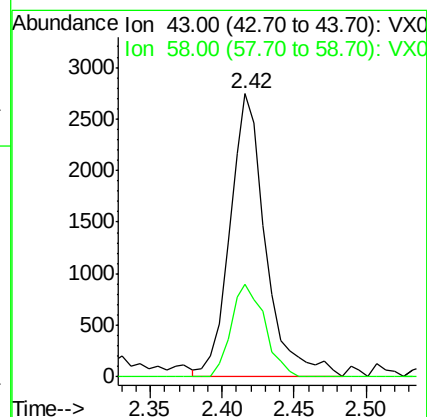
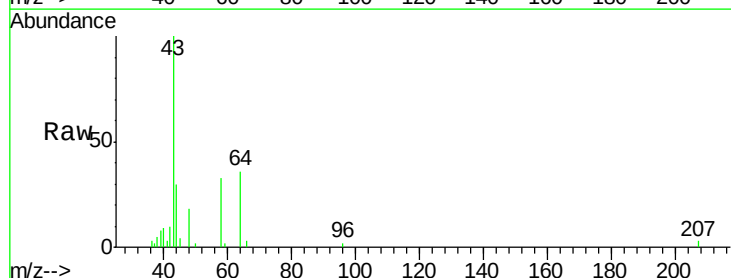
Acq: 16 Dec 2020 19:50

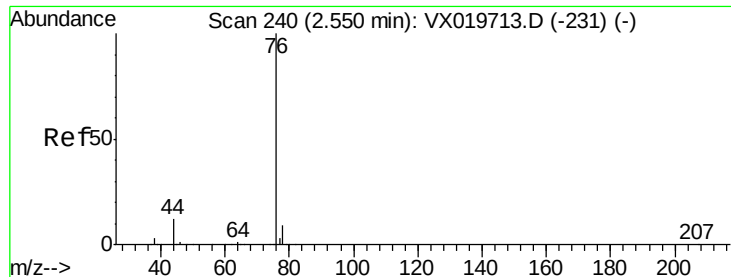
Tgt Ion: 43 Resp: 4757

Ion Ratio Lower Upper

43 100

58 32.9 27.8 41.8





#17

Carbon Disulfide

Concen: 0.252 ug/l

RT: 2.56 min Scan# 242

Delta R.T. 0.01 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampled :

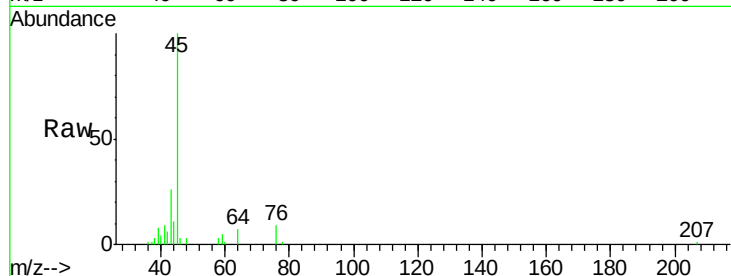
MW-3

Tgt Ion: 76 Resp: 1914

Ion Ratio Lower Upper

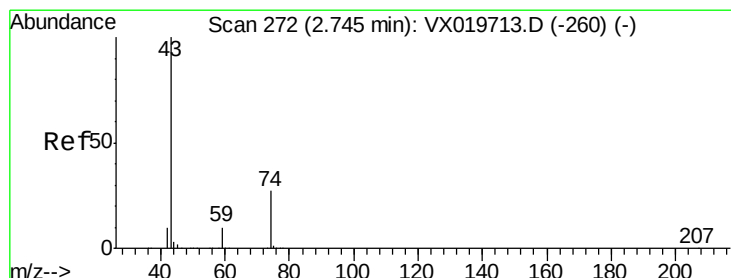
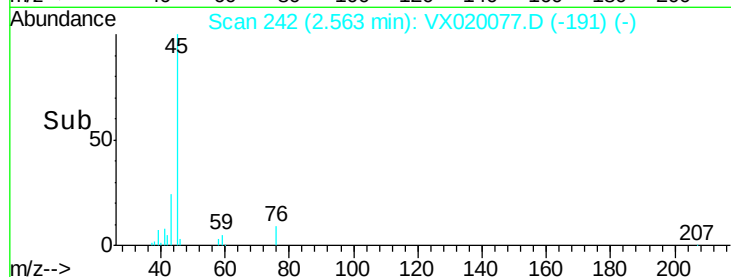
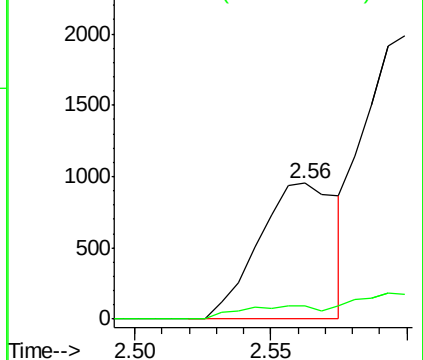
76 100

78 9.5 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.240 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX020077.D

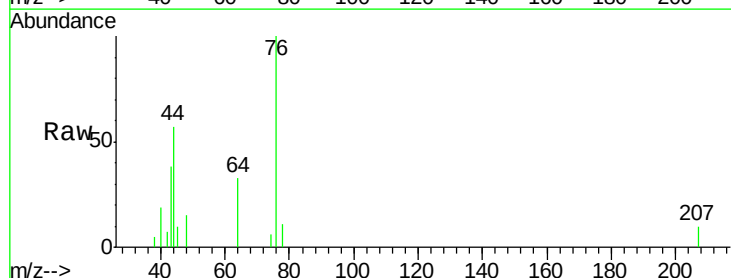
Acq: 16 Dec 2020 19:50

Tgt Ion: 43 Resp: 837

Ion Ratio Lower Upper

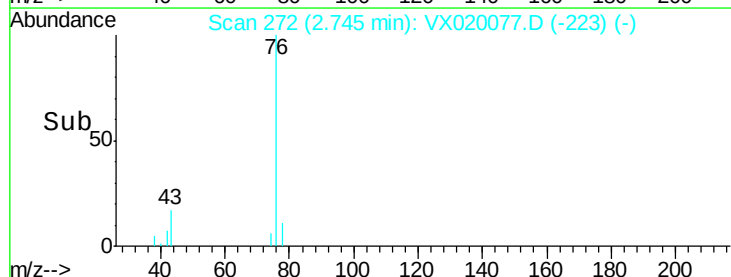
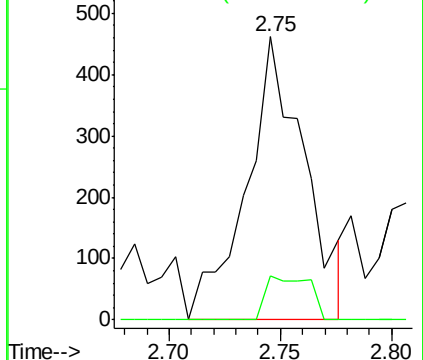
43 100

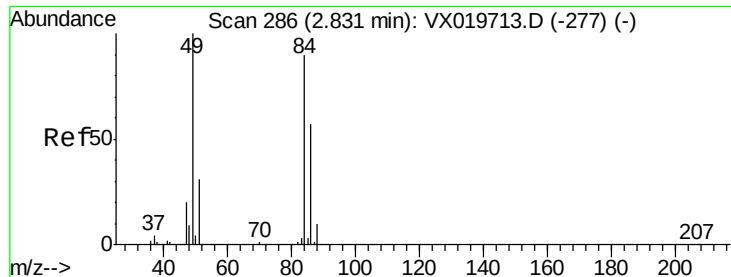
74 11.6 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

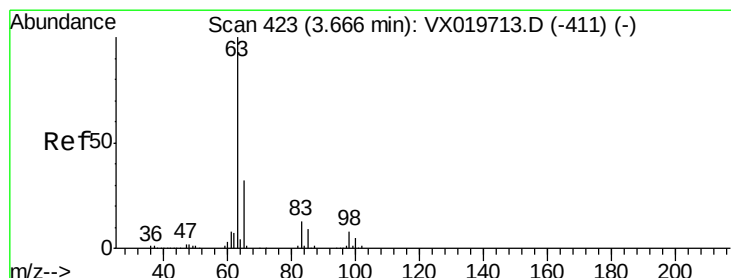
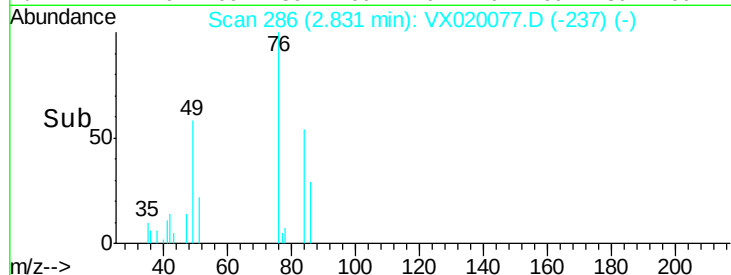
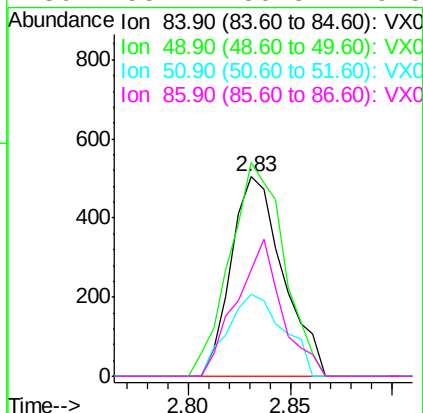
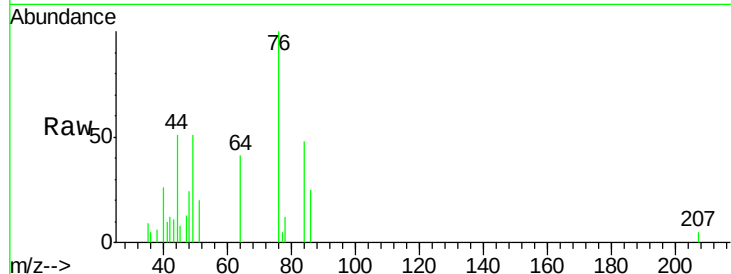




#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX020077.D
Acq: 16 Dec 2020 19:50

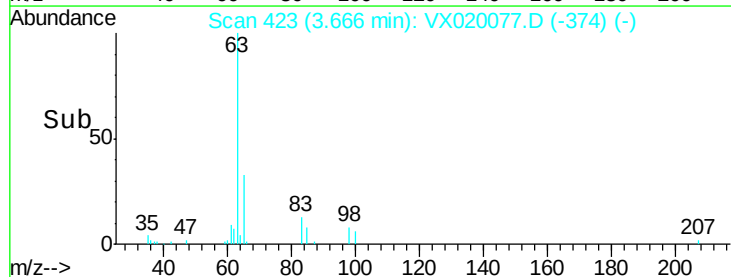
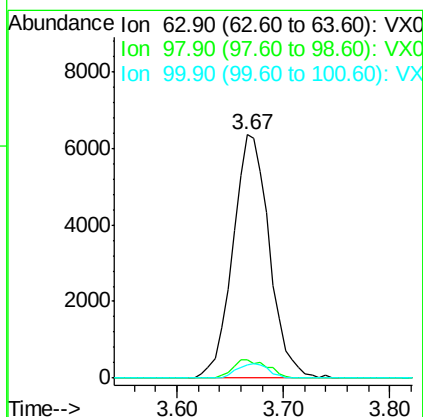
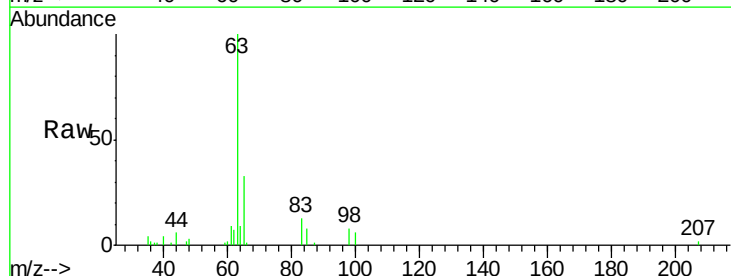
Instrument :
MSVOA_X
ClientSampled :
MW-3

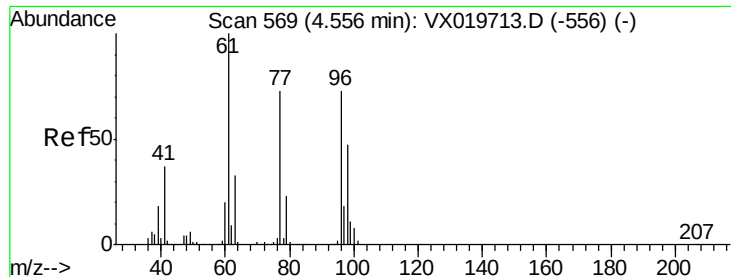
Tgt Ion: 84 Resp: 891
Ion Ratio Lower Upper
84 100
49 107.1 88.6 132.8
51 41.3 27.0 40.6#
86 53.2 50.3 75.5



#24
1,1-Dichloroethane
Concen: 2.795 ug/l
RT: 3.67 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX020077.D
Acq: 16 Dec 2020 19:50

Tgt Ion: 63 Resp: 15246
Ion Ratio Lower Upper
63 100
98 7.5 3.8 11.2
100 5.7 2.5 7.5





#27

cis-1,2-Dichloroethene

Concen: 1.711 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

MW-3

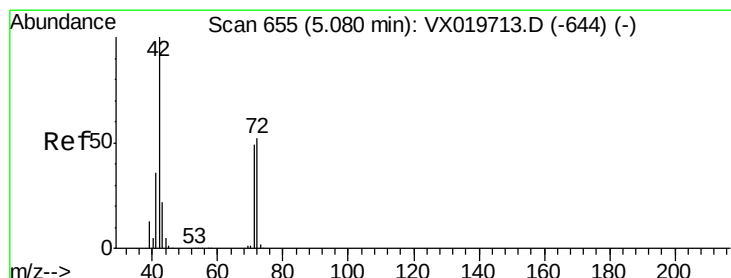
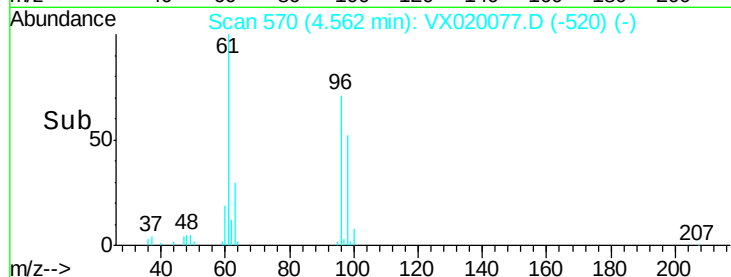
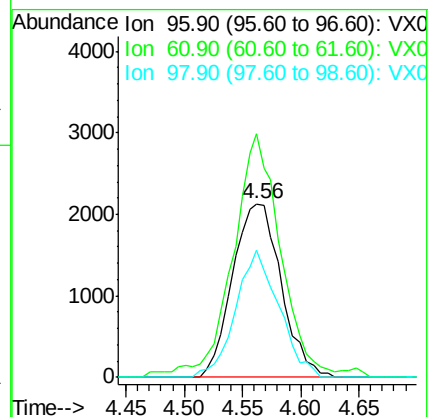
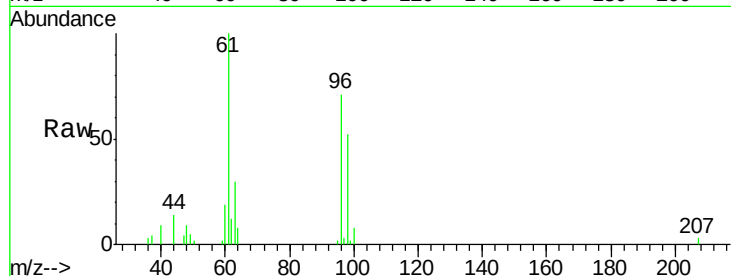
Tgt Ion: 96 Resp: 6184

Ion Ratio Lower Upper

96 100

61 137.5 0.0 285.6

98 65.0 0.0 129.6



#29

Tetrahydrofuran

Concen: 0.310 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

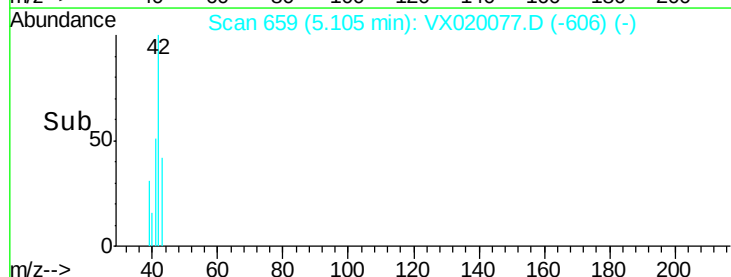
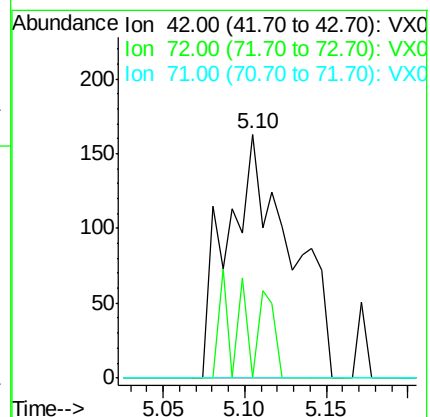
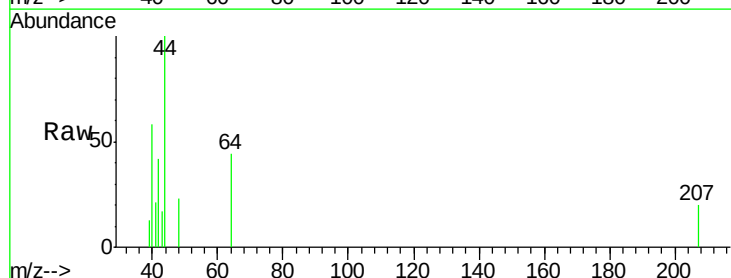
Tgt Ion: 42 Resp: 439

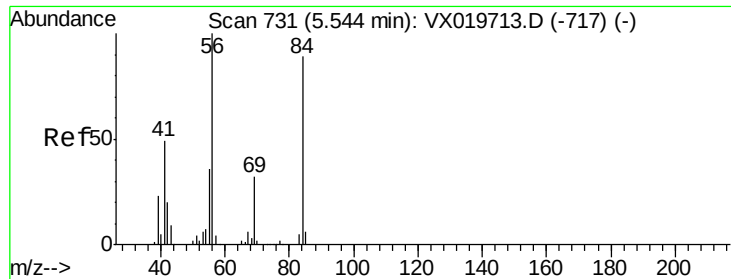
Ion Ratio Lower Upper

42 100

72 9.1 41.7 62.5#

71 0.0 38.4 57.6#

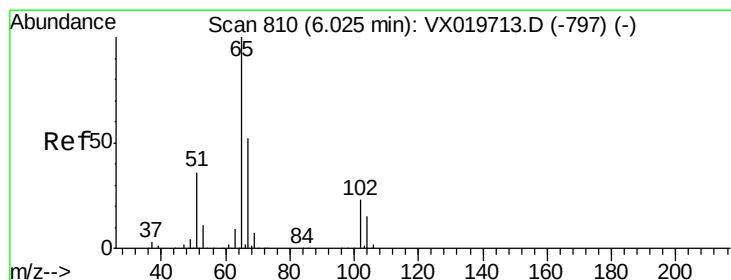
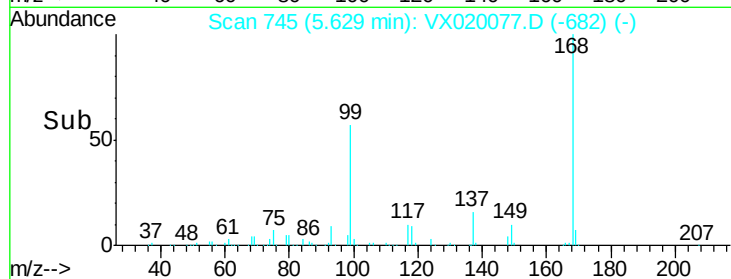
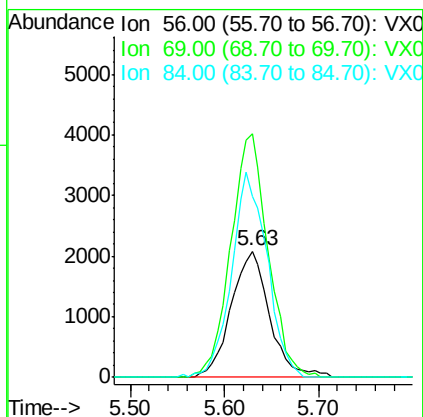
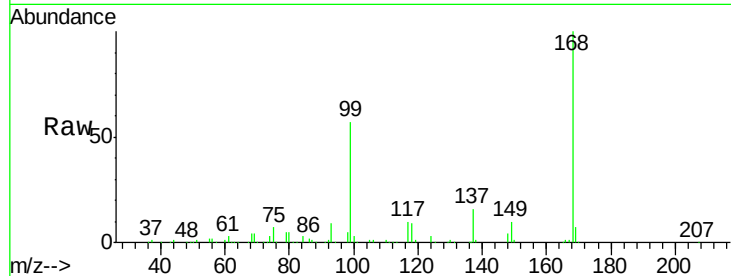




#31
Cyclohexane
Concen: 1.257 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX020077.D
Acq: 16 Dec 2020 19:50

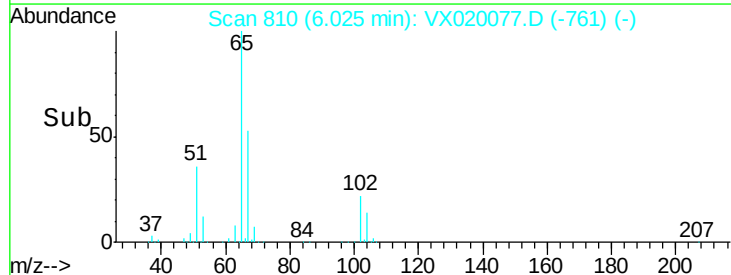
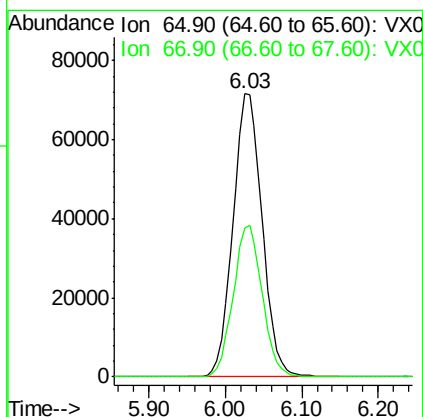
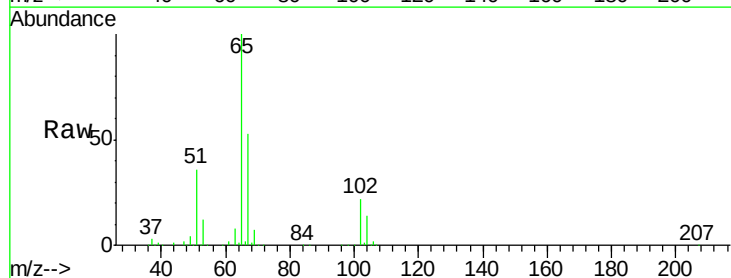
Instrument :
MSVOA_X
ClientSampled :
MW-3

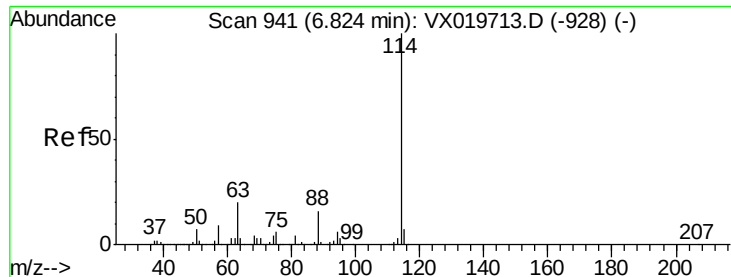
Tgt Ion: 56 Resp: 5942
Ion Ratio Lower Upper
56 100
69 193.4 25.3 37.9#
84 143.4 71.4 107.0#



#33
1,2-Dichloroethane-d4
Concen: 49.734 ug/l
RT: 6.03 min Scan# 810
Delta R.T. -0.00 min
Lab File: VX020077.D
Acq: 16 Dec 2020 19:50

Tgt Ion: 65 Resp: 188962
Ion Ratio Lower Upper
65 100
67 53.0 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampled :

MW-3

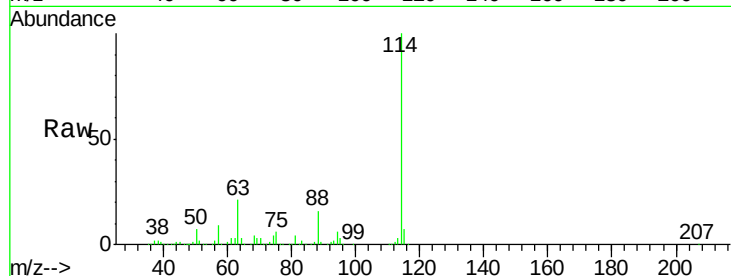
Tgt Ion:114 Resp: 480882

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

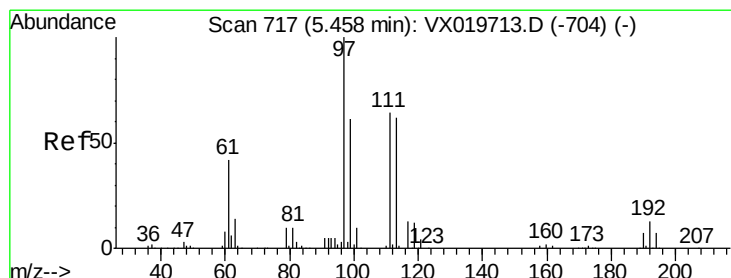
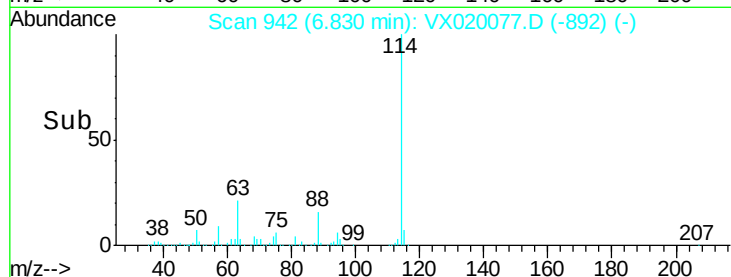
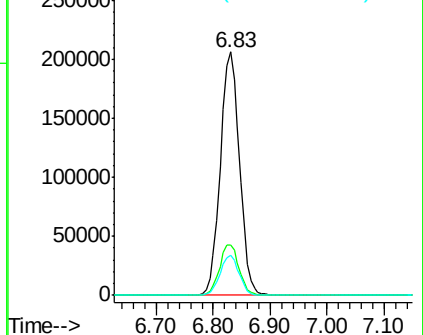
88 16.3 0.0 32.8



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: 48.800 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

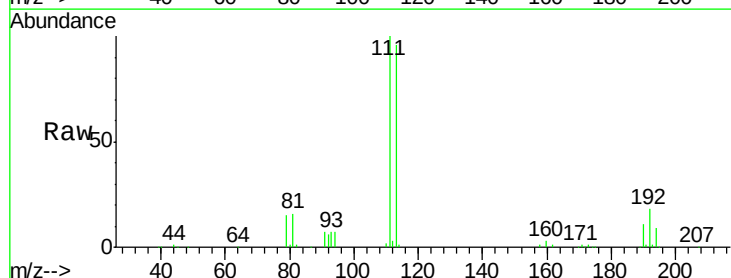
Tgt Ion:113 Resp: 151664

Ion Ratio Lower Upper

113 100

111 103.9 81.9 122.9

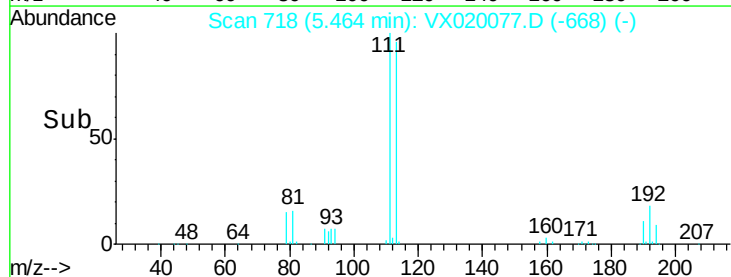
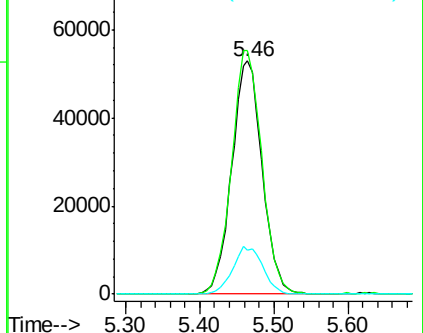
192 20.2 16.7 25.1

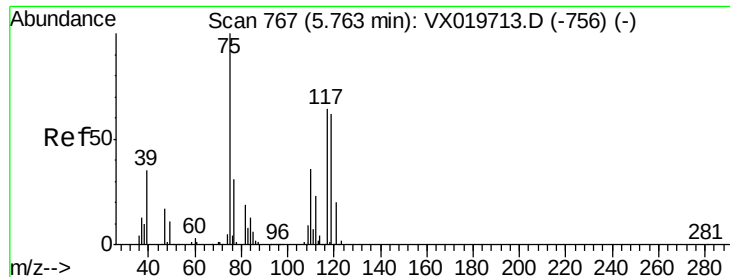


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

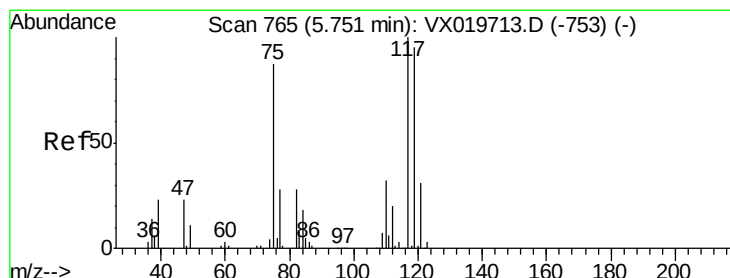
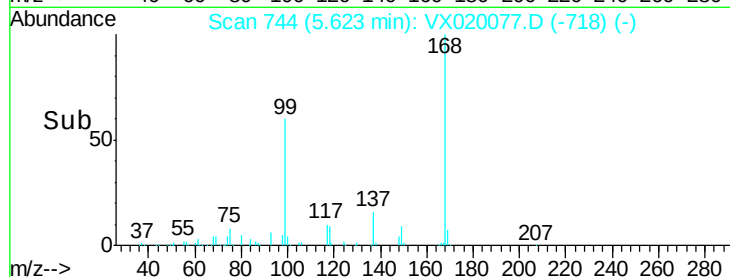
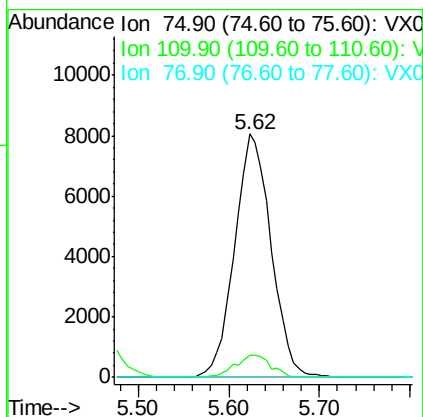
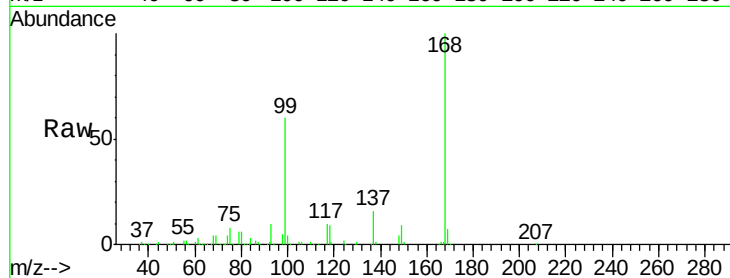




#36
 1,1-Dichloropropene
 Concen: 5.152 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX020077.D
 Acq: 16 Dec 2020 19:50

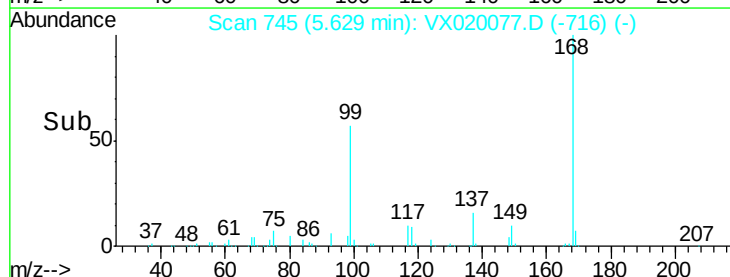
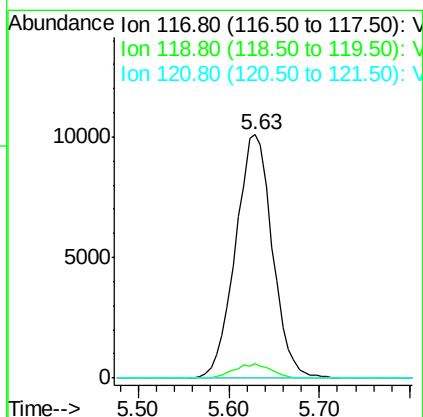
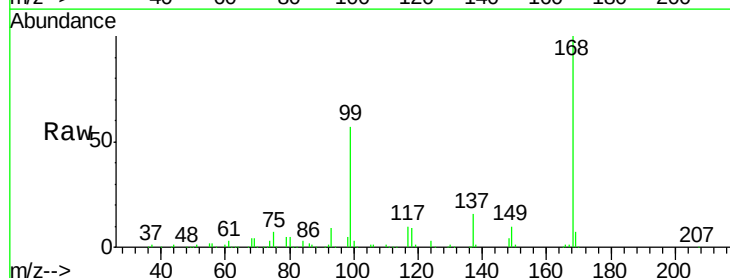
Instrument :
 MSVOA_X
 ClientSampled :
 MW-3

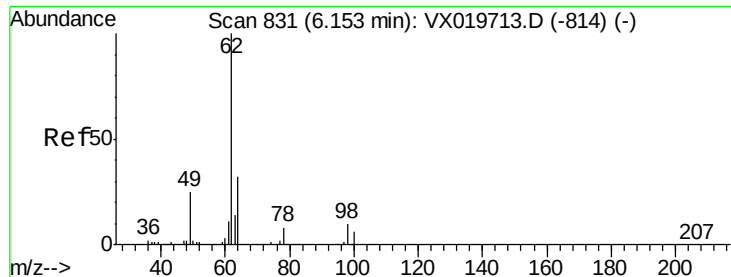
Tgt Ion: 75 Resp: 22387
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.4#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 6.672 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX020077.D
 Acq: 16 Dec 2020 19:50

Tgt Ion: 117 Resp: 28391
 Ion Ratio Lower Upper
 117 100
 119 6.0 76.2 114.2#
 121 0.0 24.8 37.2#

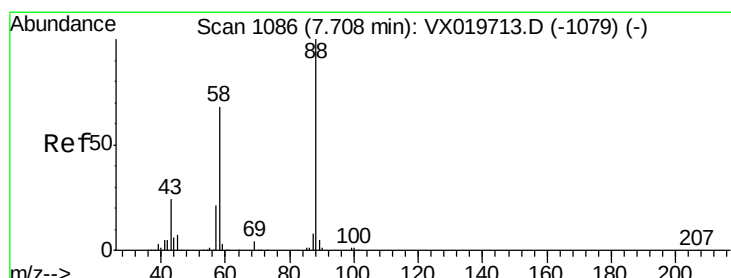
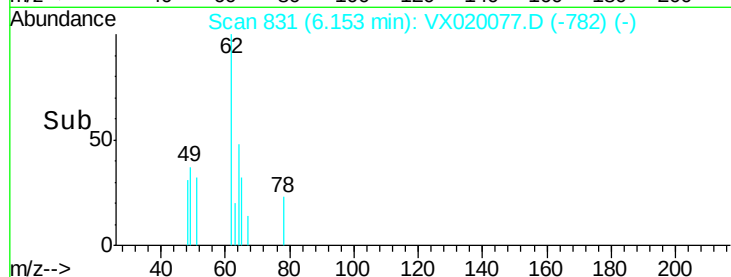
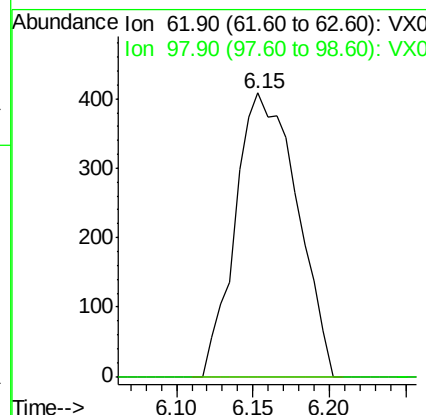
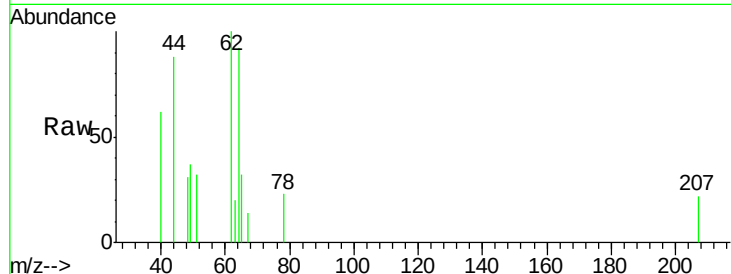




#42
 1,2-Dichloroethane
 Concen: 0.252 ug/l
 RT: 6.15 min Scan# 831
 Delta R.T. 0.00 min
 Lab File: VX020077.D
 Acq: 16 Dec 2020 19:50

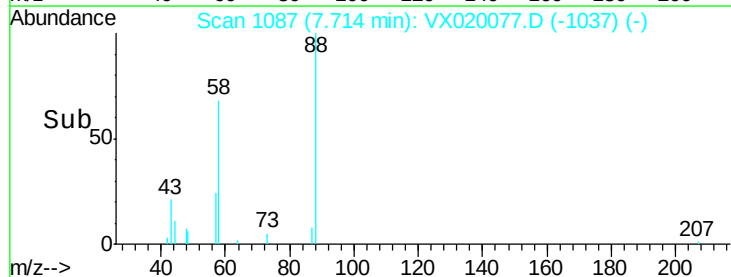
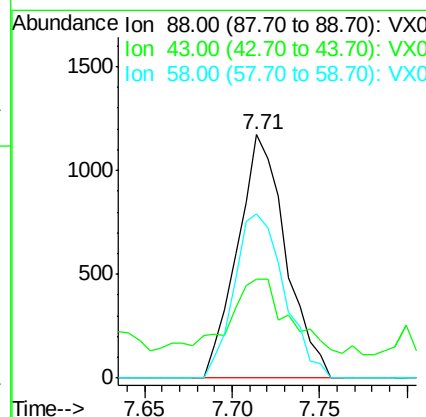
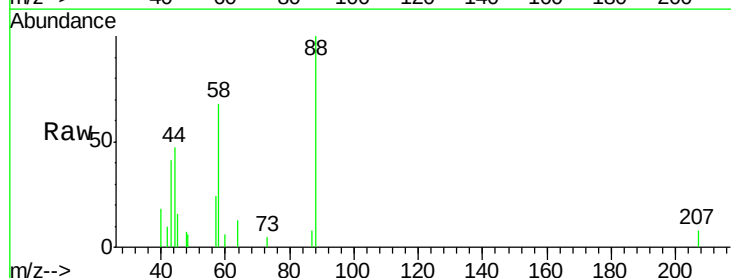
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

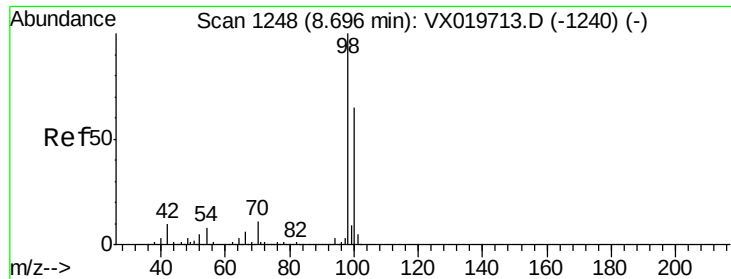
Tgt Ion: 62 Resp: 1143
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 20.2



#49
 1,4-Dioxane
 Concen: 26.511 ug/l
 RT: 7.71 min Scan# 1087
 Delta R.T. 0.01 min
 Lab File: VX020077.D
 Acq: 16 Dec 2020 19:50

Tgt Ion: 88 Resp: 2253
 Ion Ratio Lower Upper
 88 100
 43 37.6 23.2 34.8#
 58 70.4 55.0 82.4





#50

Toluene-d8

Concen: 49.453 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

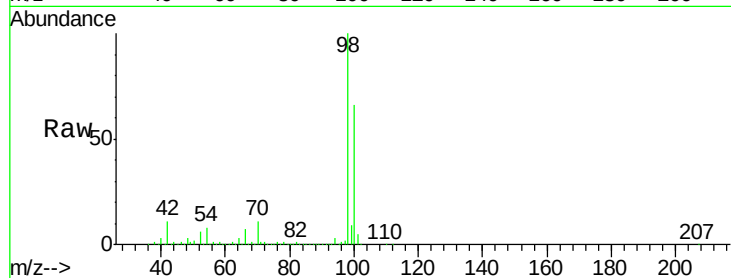
MW-3

Tgt Ion: 98 Resp: 586761

Ion Ratio Lower Upper

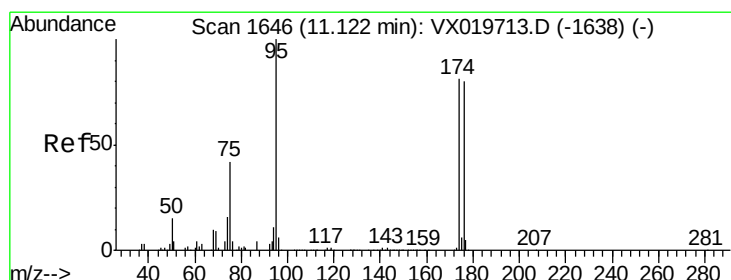
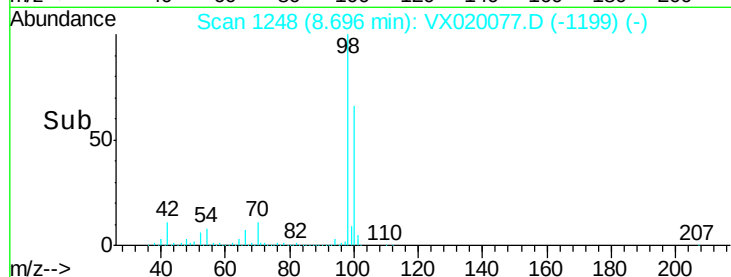
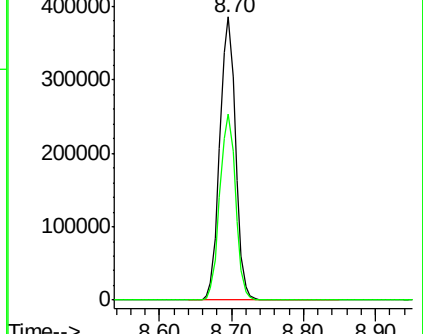
98 100

100 66.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 45.334 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

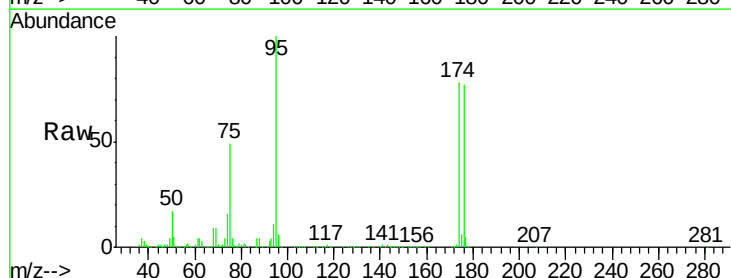
Tgt Ion: 95 Resp: 204730

Ion Ratio Lower Upper

95 100

174 76.4 0.0 154.6

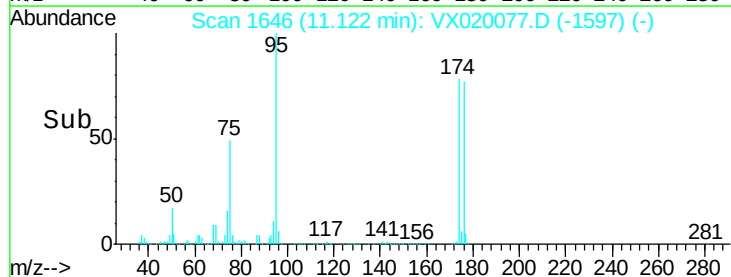
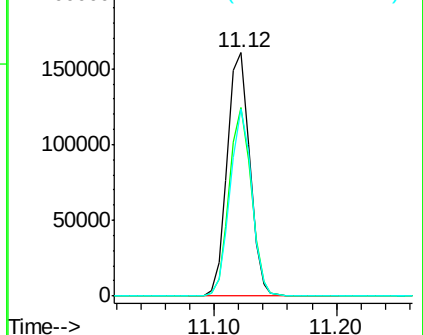
176 73.9 0.0 155.8

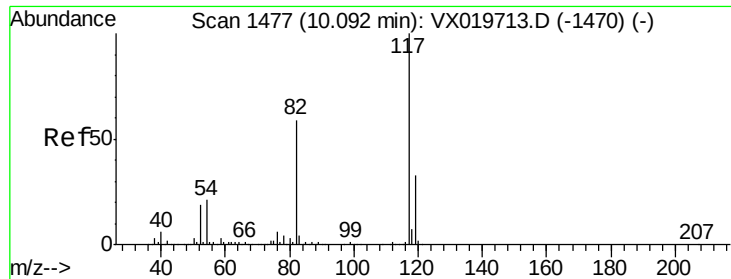


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

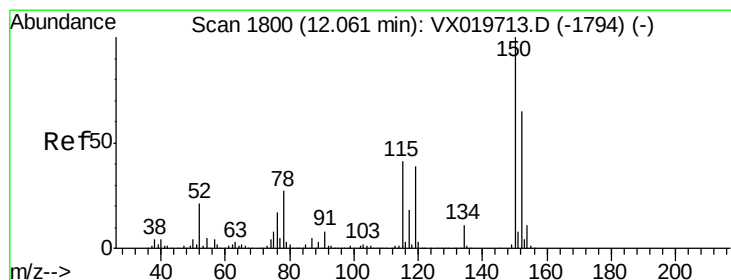
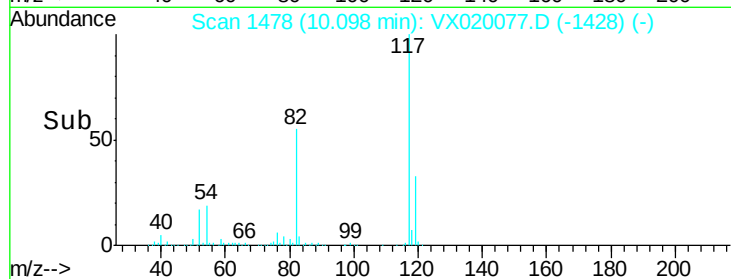
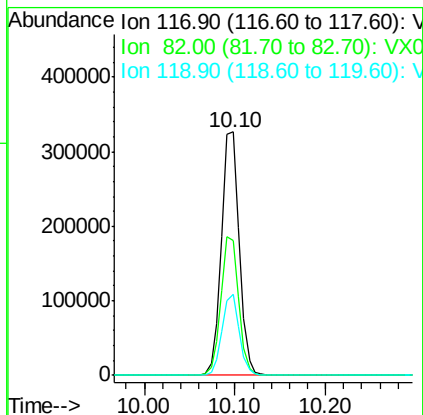
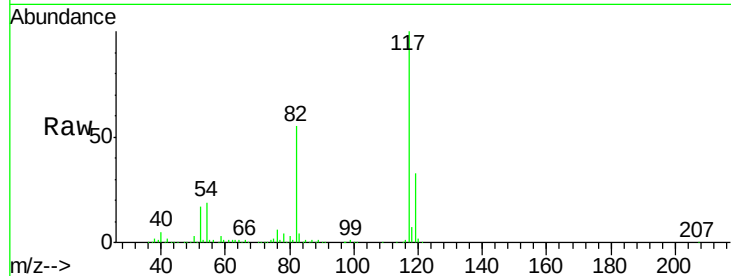




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX020077.D
Acq: 16 Dec 2020 19:50

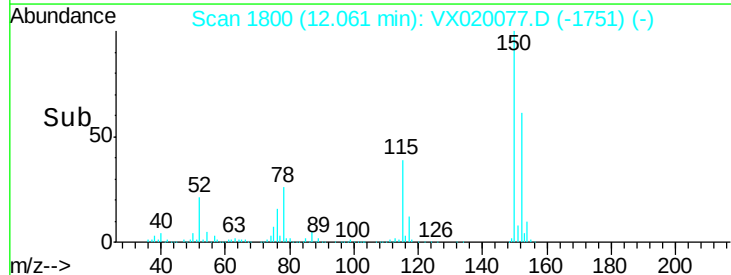
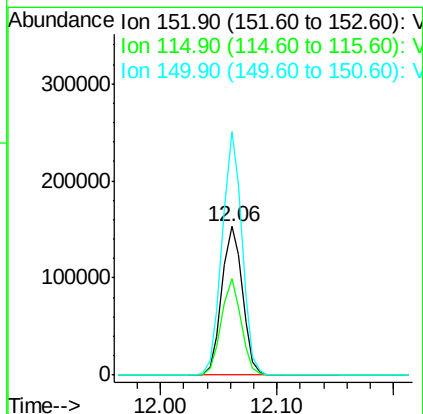
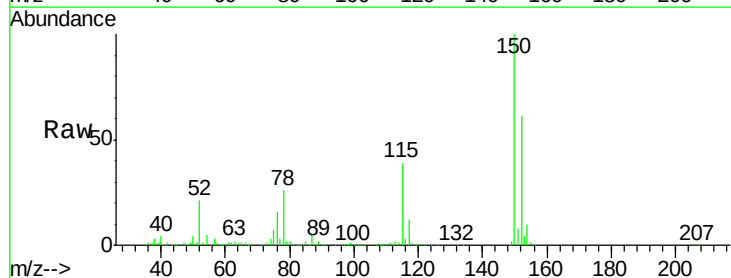
Instrument :
MSVOA_X
ClientSampled :
MW-3

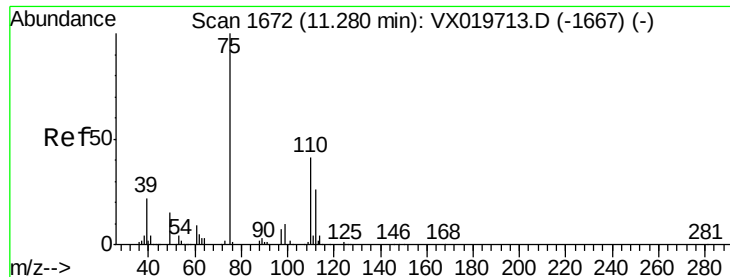
Tgt Ion:117 Resp: 449343
Ion Ratio Lower Upper
117 100
82 55.4 47.4 71.2
119 33.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX020077.D
Acq: 16 Dec 2020 19:50

Tgt Ion:152 Resp: 187669
Ion Ratio Lower Upper
152 100
115 61.6 41.1 123.3
150 157.3 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 23.822 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

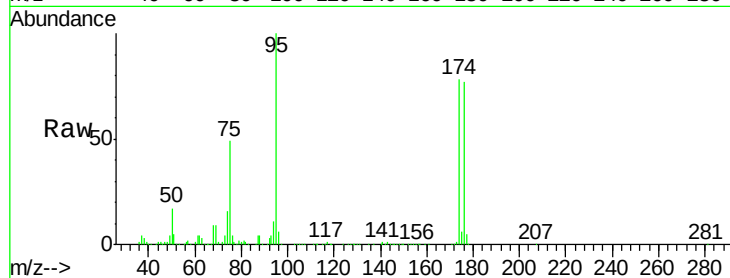
MW-3

Tgt Ion: 75 Resp: 100270

Ion Ratio Lower Upper

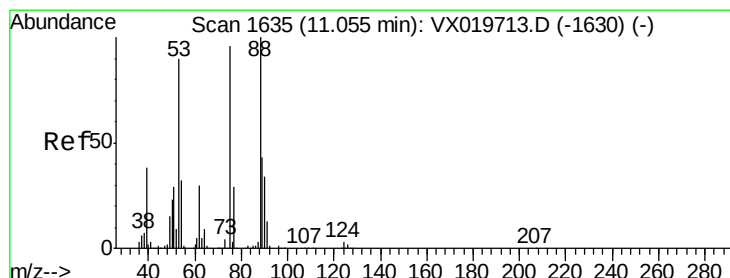
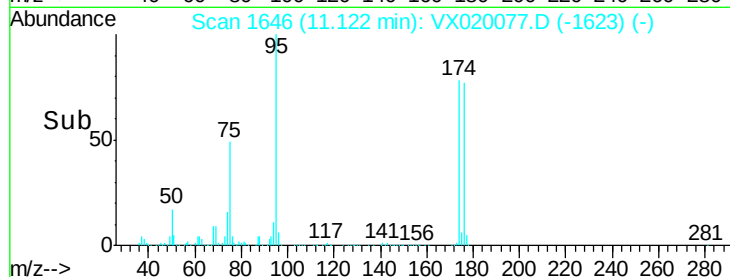
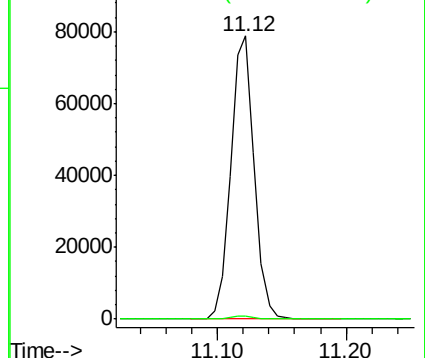
75 100

77 1.4 19.1 57.5#



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: 68.866 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX020077.D

Acq: 16 Dec 2020 19:50

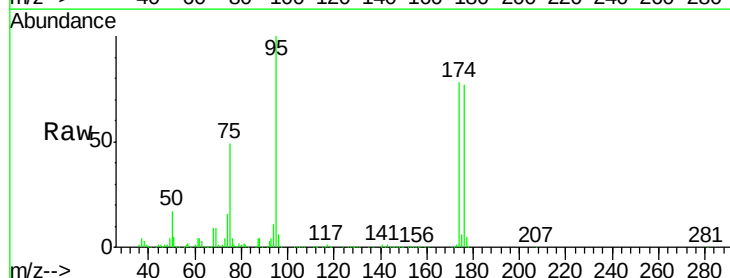
Tgt Ion: 75 Resp: 100270

Ion Ratio Lower Upper

75 100

53 0.3 74.5 111.7#

89 0.8 37.9 56.9#



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

