

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091720\
 Data File : VX018470.D
 Acq On : 17 Sep 2020 16:46
 Operator : JC/SP
 Sample : L4014-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Sep 18 06:33:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	569214	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	925156	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	877213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	431729	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	385562	47.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.76%	
35) Dibromofluoromethane	5.47	113	310554	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
50) Toluene-d8	8.70	98	1122810	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	
62) 4-Bromofluorobenzene	11.12	95	412477	44.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.24%	

Target Compounds

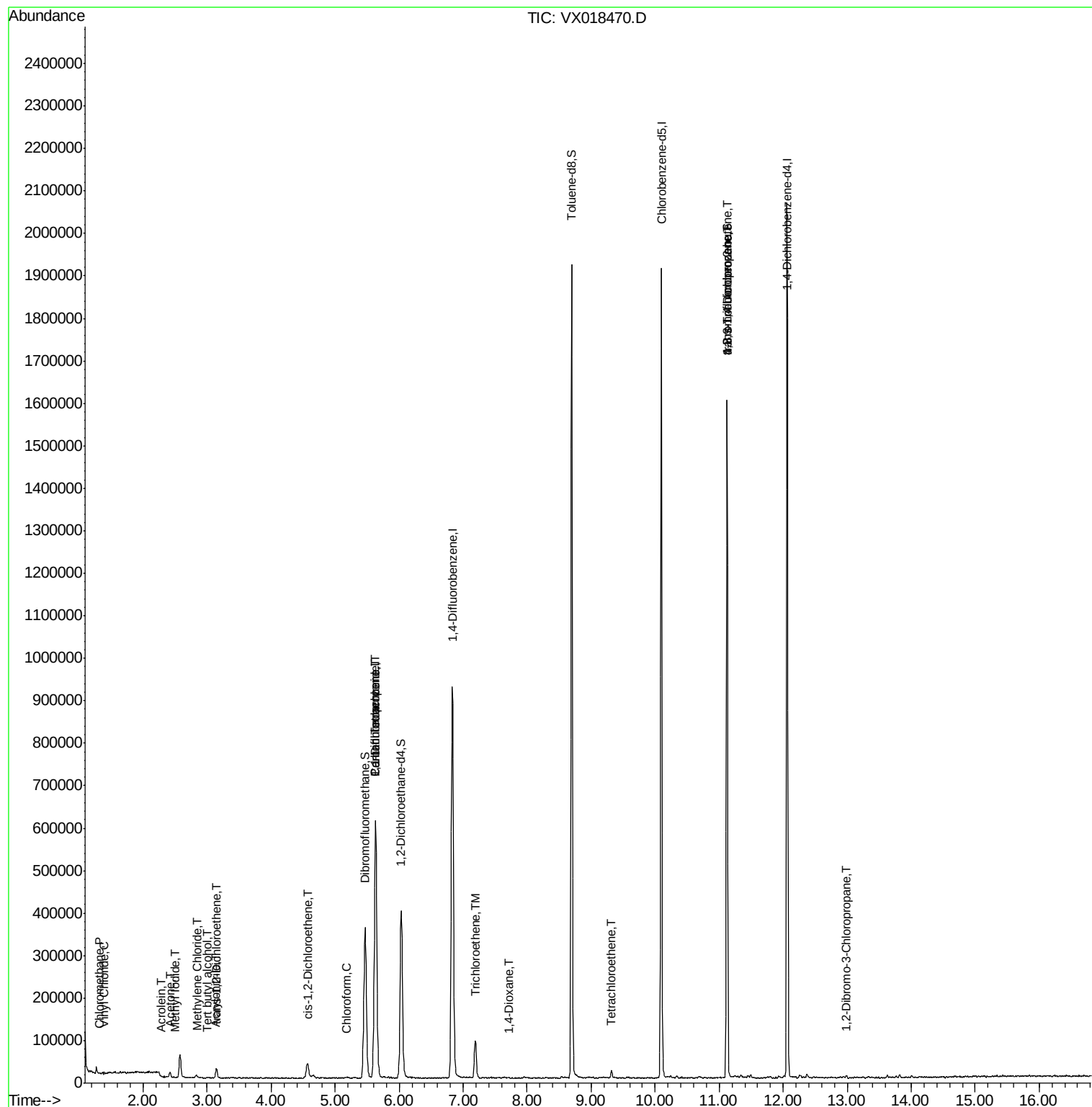
						Qvalue
3) Chloromethane	1.31	50	2460	0.389	ug/l	96
4) Vinyl Chloride	1.39	62	1369	0.205	ug/l #	2
10) Methyl Iodide	2.51	142	632	4.999	ug/l #	95
11) Tert butyl alcohol	3.00	59	536	0.383	ug/l #	16
13) Acrolein	2.29	56	234	0.264	ug/l #	1
15) Acrylonitrile	3.13	53	979	0.293	ug/l #	74
16) Acetone	2.42	43	15629	5.075	ug/l	95
20) Methylene Chloride	2.84	84	3471	0.511	ug/l #	76
21) trans-1,2-Dichloroethene	3.14	96	8939	1.395	ug/l	84
27) cis-1,2-Dichloroethene	4.57	96	22502	3.134	ug/l	90
30) Chloroform	5.17	83	2845	0.242	ug/l	87
36) 1,1-Dichloropropene	5.63	75	43542	4.849	ug/l #	51
38) Carbon Tetrachloride	5.63	117	58184	5.851	ug/l #	21
44) Trichloroethene	7.19	130	35999	4.832	ug/l	95
49) 1,4-Dioxane	7.71	88	276	2.157	ug/l #	68
64) Tetrachloroethene	9.32	164	3197	0.463	ug/l	82
76) 1,2,3-Trichloropropane	11.12	75	210707	23.225	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	210707	59.513	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	495	0.214	ug/l #	22

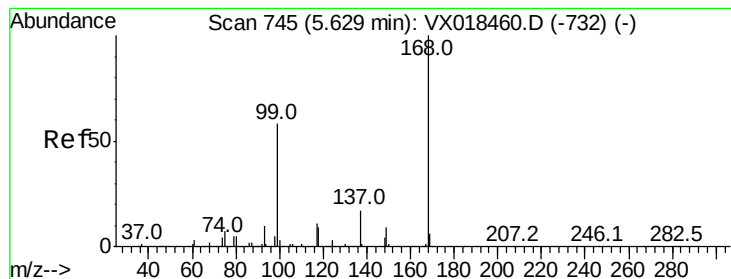
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

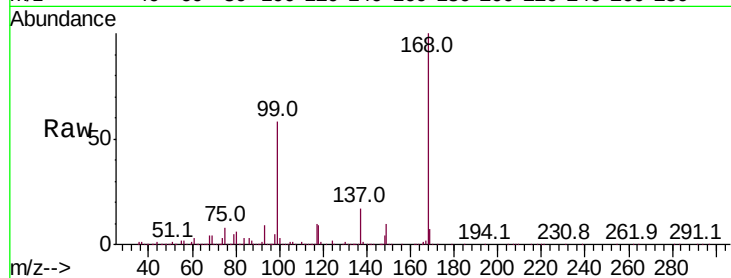
MW-3

Tot Ion:168 Resp: 569214

Ion Ratio Lower Upper

168 100

99 58.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

200000

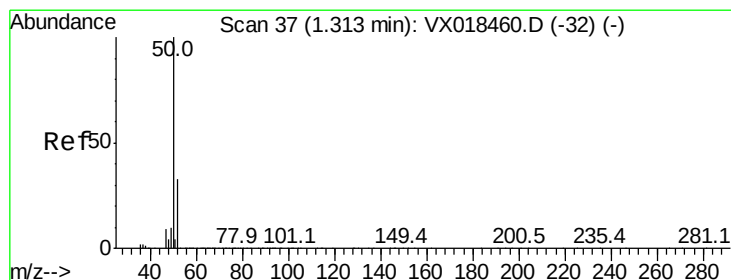
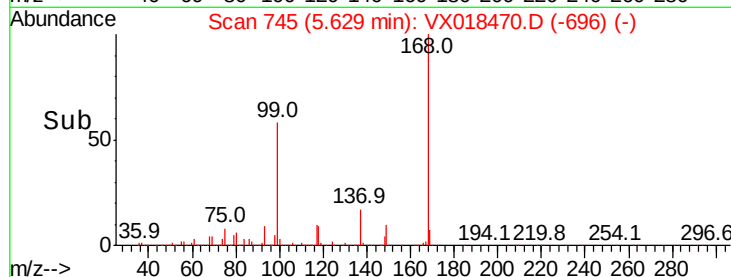
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.389 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018470.D

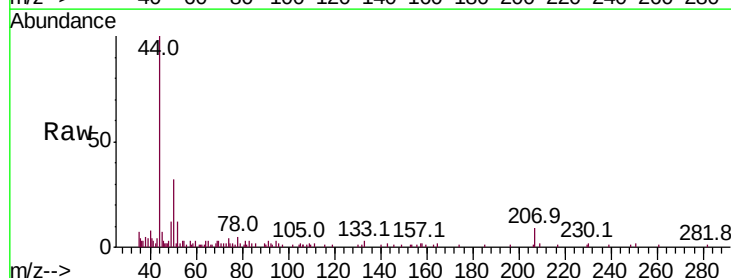
Acq: 17 Sep 2020 16:46

Tgt Ion: 50 Resp: 2460

Ion Ratio Lower Upper

50 100

52 35.3 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

2000

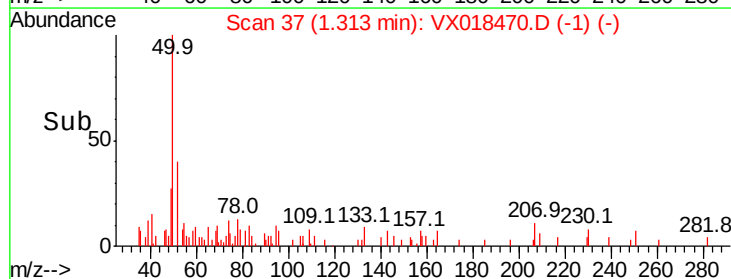
1500

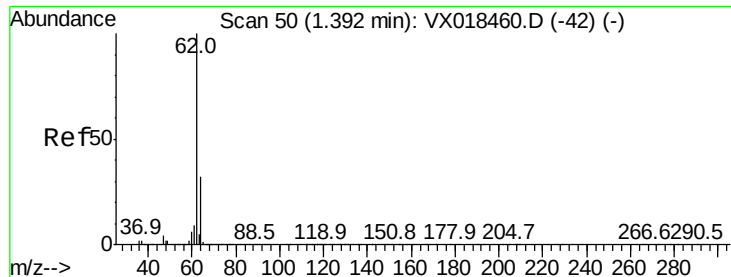
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 0.205 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

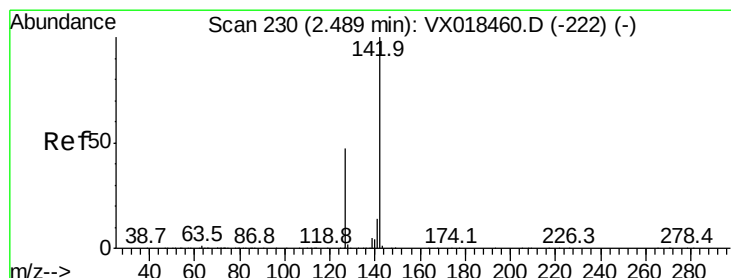
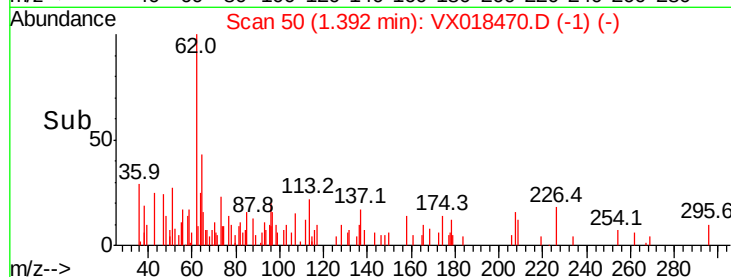
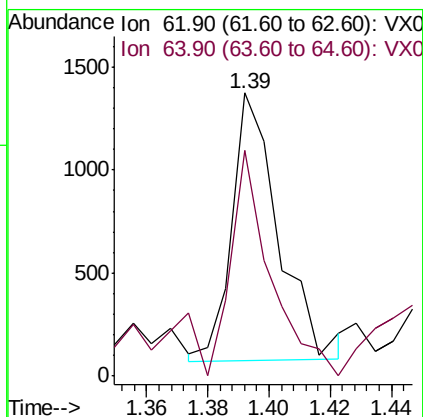
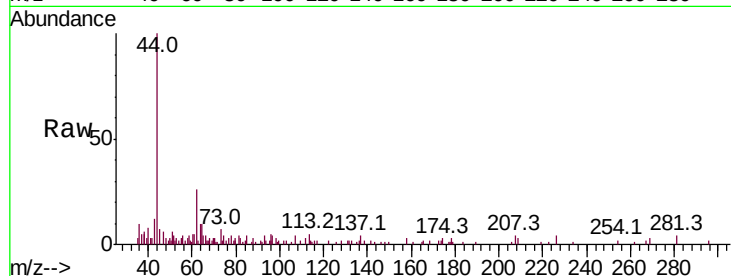
MW-3

Tot Ion: 62 Resp: 1369

Ion Ratio Lower Upper

62 100

64 86.7 25.7 38.5#



#10

Methyl Iodide

Concen: 4.999 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

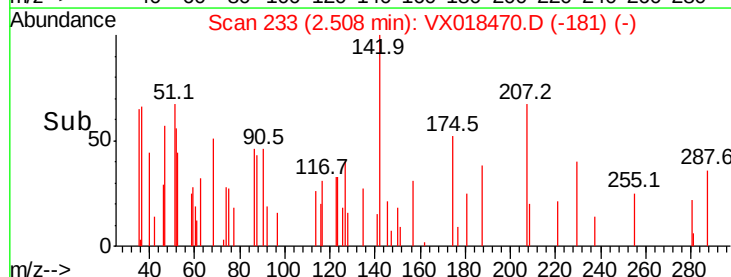
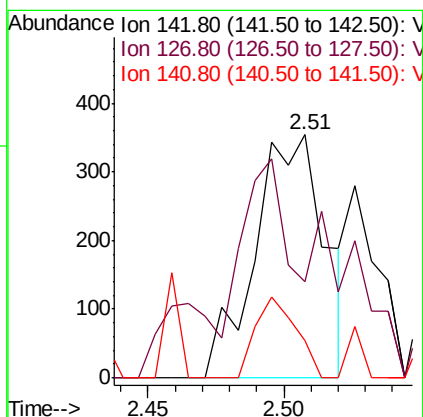
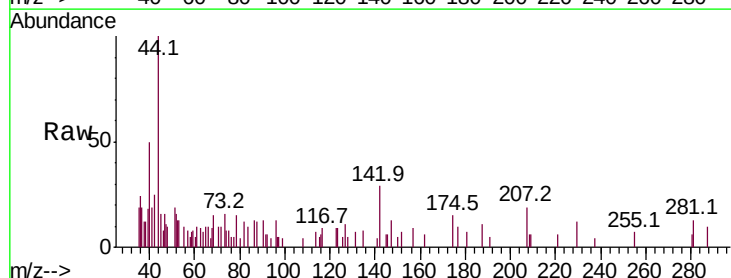
Tgt Ion: 142 Resp: 632

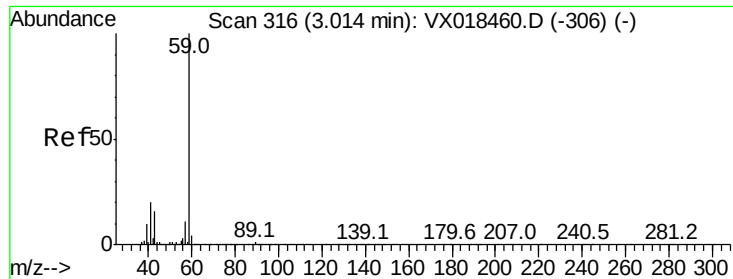
Ion Ratio Lower Upper

142 100

127 46.8 36.0 54.0

141 19.1 11.9 17.9#





#11

Tert butyl alcohol

Concen: 0.383 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

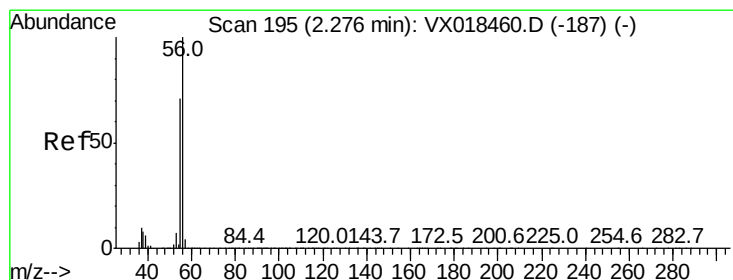
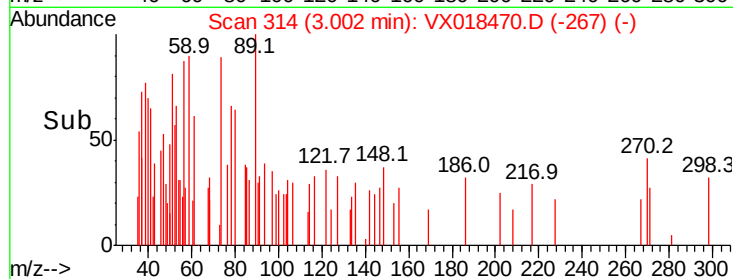
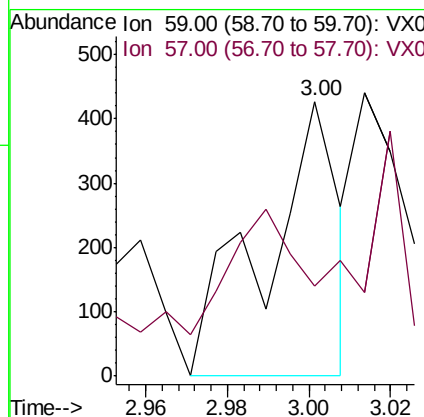
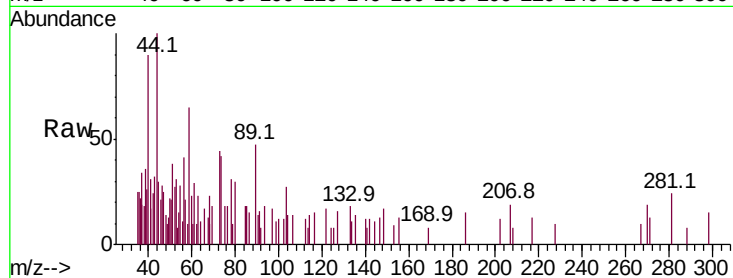
Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :
MSVOA_X
ClientSampled :
MW-3

Tot Ion: 59 Resp: 536

Ion	Ratio	Lower	Upper
59	100		
57	41.8	8.2	12.4#



#13

Acrolein

Concen: 0.264 ug/l

RT: 2.29 min Scan# 197

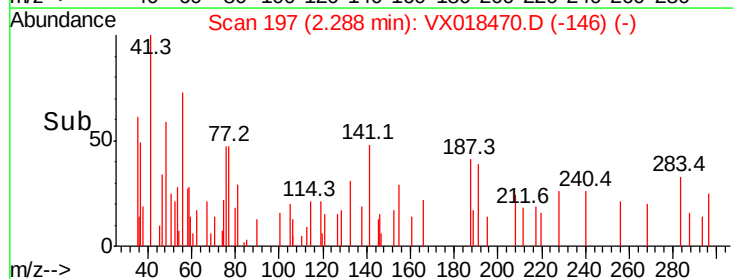
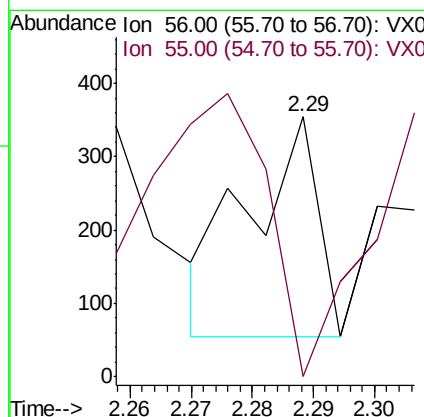
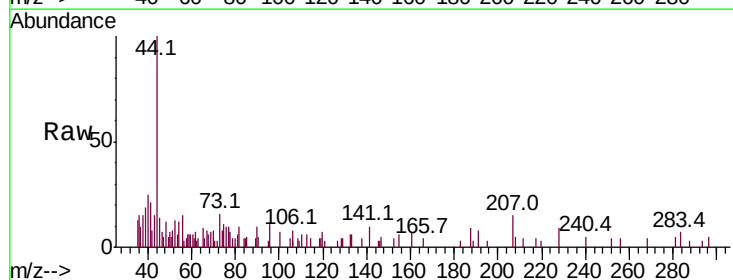
Delta R.T. 0.01 min

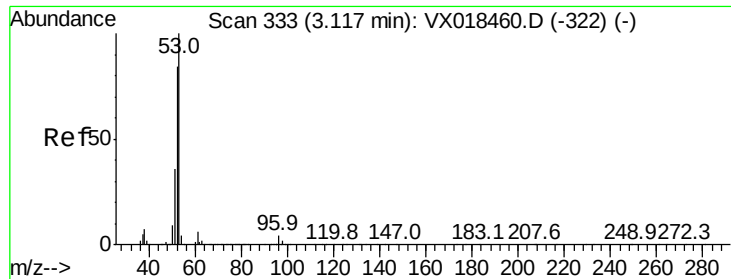
Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Tgt Ion: 56 Resp: 234

Ion	Ratio	Lower	Upper
56	100		
55	201.7	58.2	87.4#





#15

Acrylonitrile

Concen: 0.293 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :

MSVOA_X

ClientSampled :

MW-3

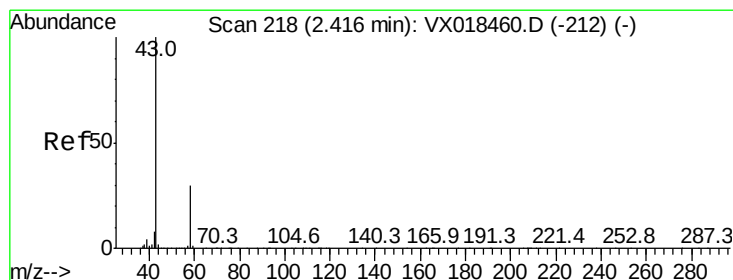
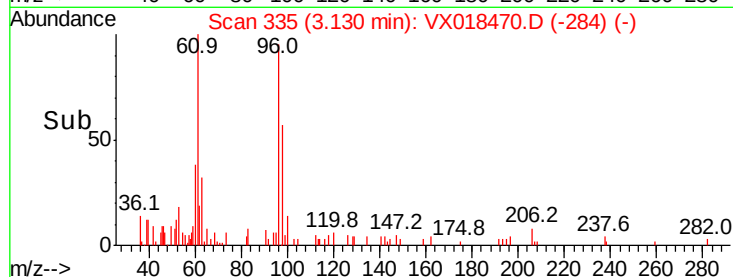
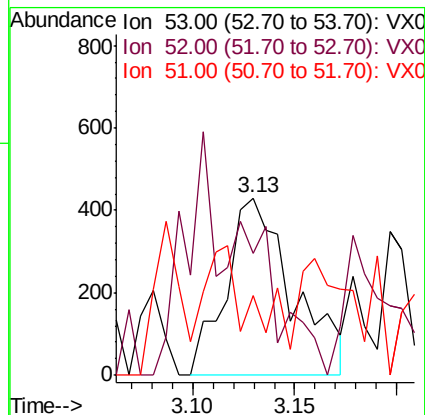
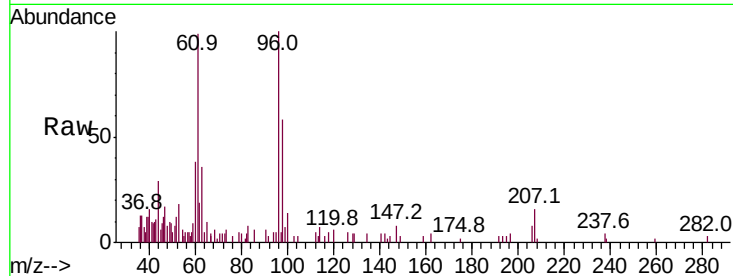
Tot Ion: 53 Resp: 979

Ion Ratio Lower Upper

53 100

52 55.3 65.8 98.8#

51 26.8 29.2 43.8#



#16

Acetone

Concen: 5.075 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX018470.D

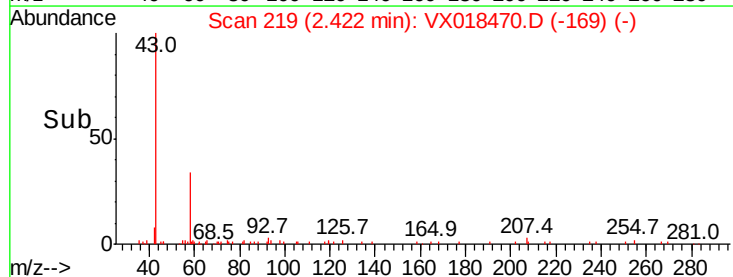
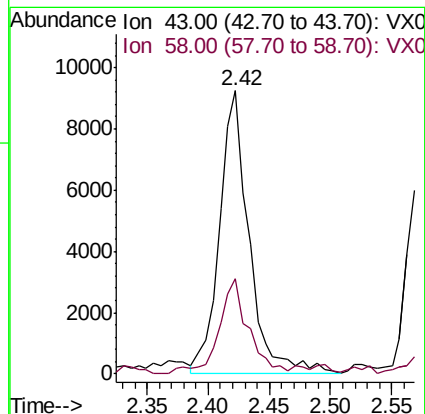
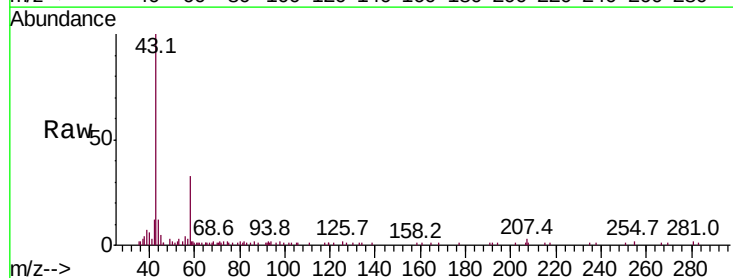
Acq: 17 Sep 2020 16:46

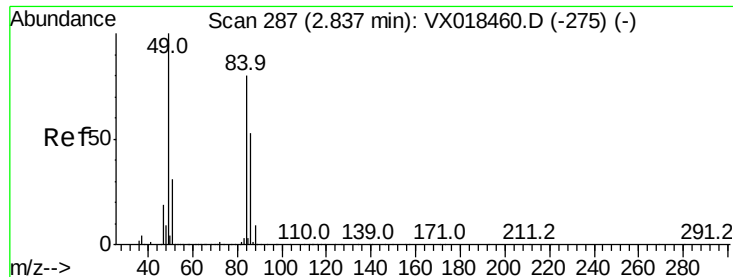
Tgt Ion: 43 Resp: 15629

Ion Ratio Lower Upper

43 100

58 32.8 24.0 36.0

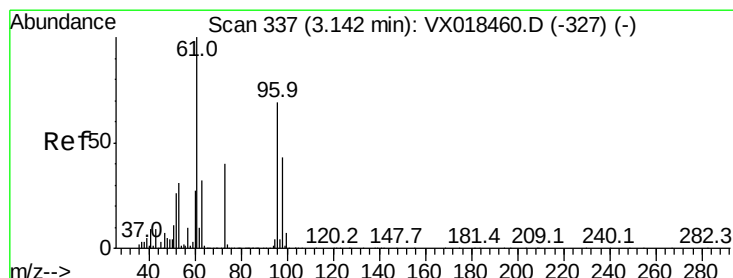
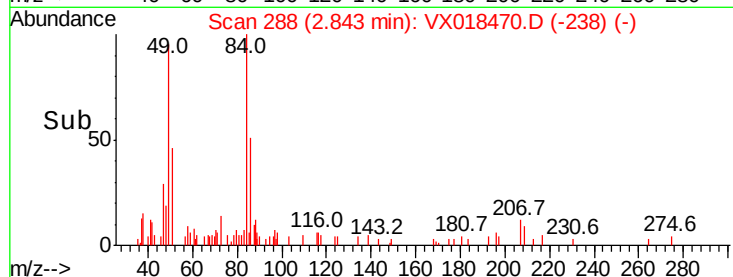
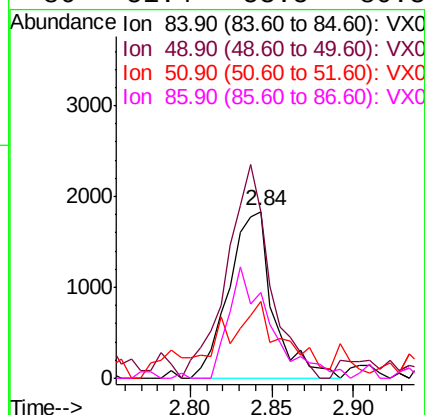
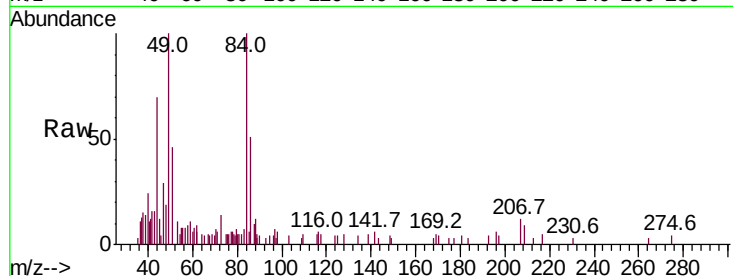




#20
Methylene Chloride
Concen: 0.511 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX018470.D
Acq: 17 Sep 2020 16:46

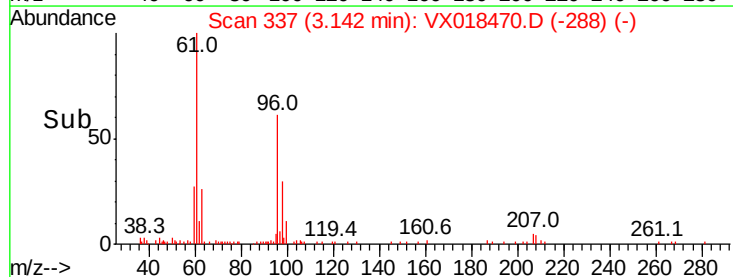
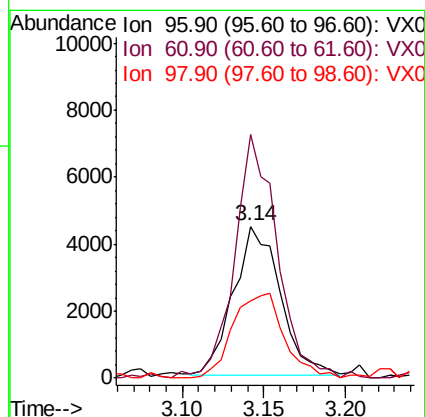
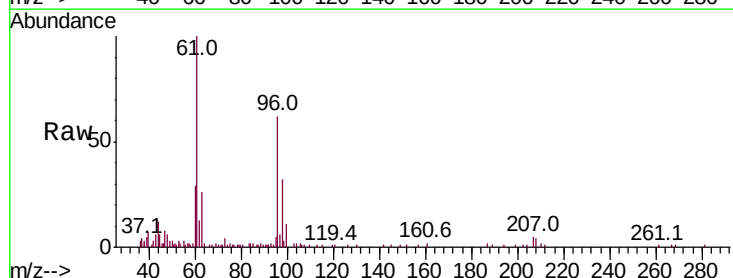
Instrument :
MSVOA_X
ClientSampled :
MW-3

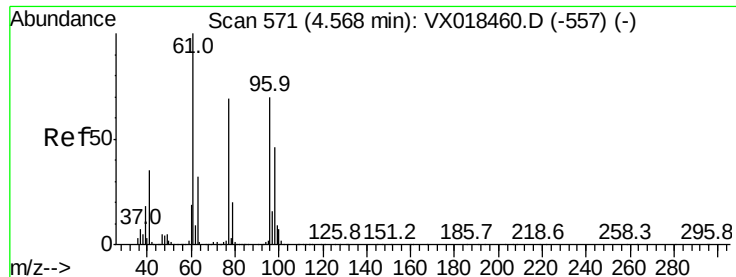
Tot Ion: 84 Resp: 3471
Ion Ratio Lower Upper
84 100
49 89.7 100.6 151.0#
51 34.2 30.9 46.3
86 51.4 53.5 80.3#



#21
trans-1,2-Dichloroethene
Concen: 1.395 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.00 min
Lab File: VX018470.D
Acq: 17 Sep 2020 16:46

Tgt Ion: 96 Resp: 8939
Ion Ratio Lower Upper
96 100
61 165.0 115.6 173.4
98 52.2 50.2 75.4



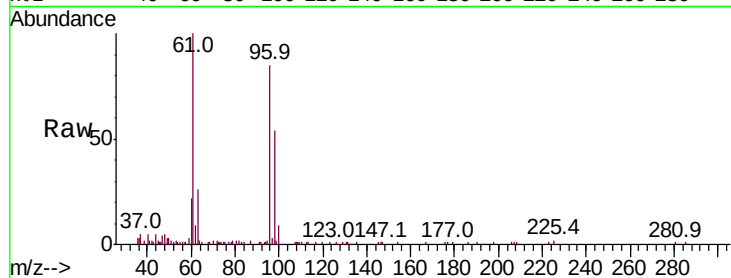


#27

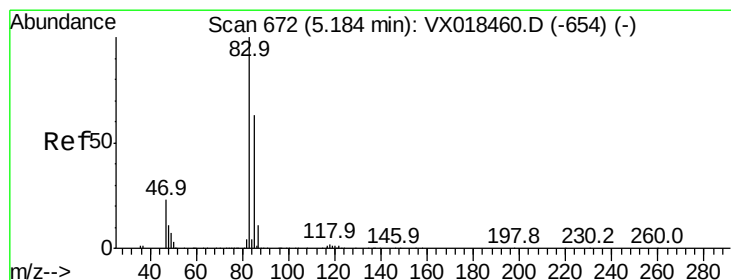
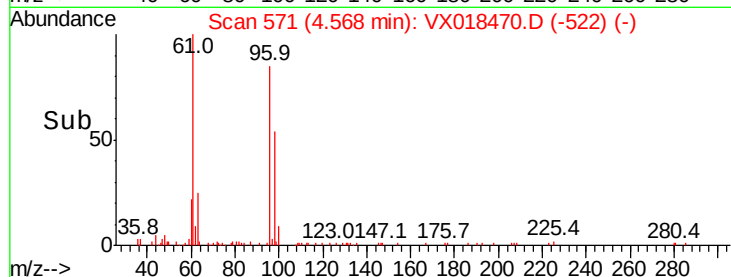
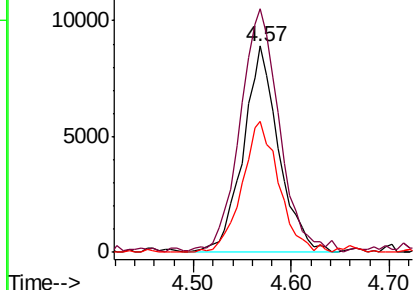
cis-1,2-Dichloroethene
Concen: 3.134 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.00 min
Lab File: VX018470.D
Acq: 17 Sep 2020 16:46

Instrument :
MSVOA_X
ClientSampled :
MW-3

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.9	0.0	300.0
98	66.2	0.0	130.4



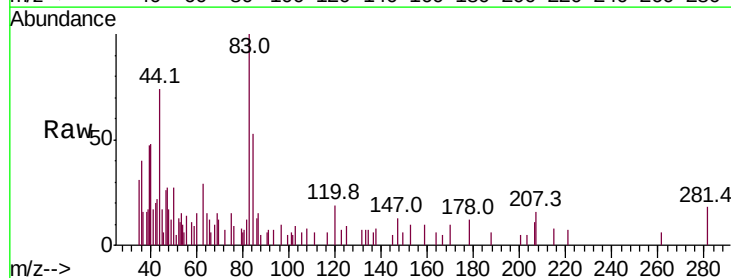
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



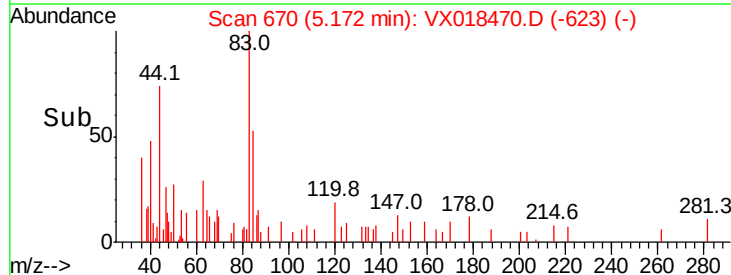
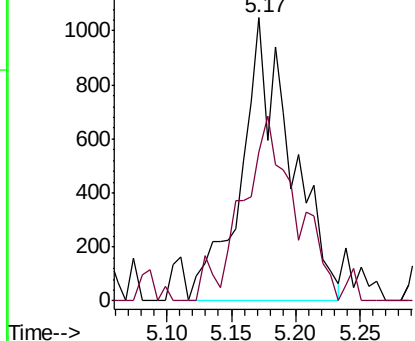
#30

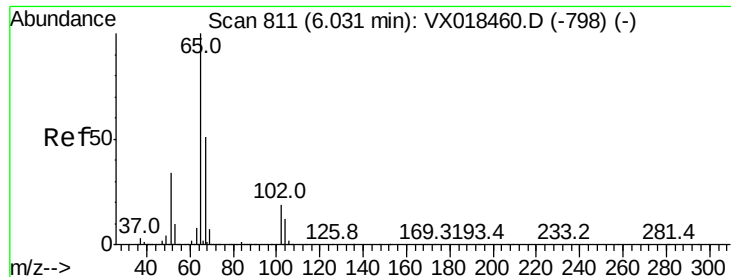
Chloroform
Concen: 0.242 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.01 min
Lab File: VX018470.D
Acq: 17 Sep 2020 16:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	52.9	50.6	76.0



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

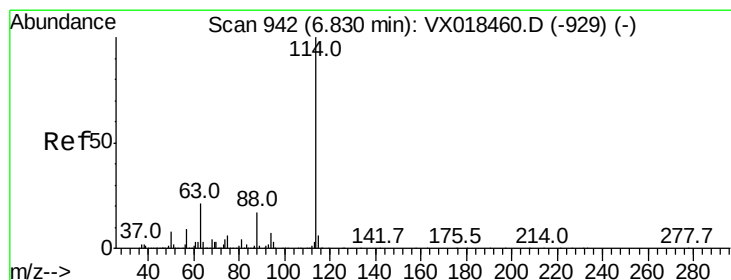
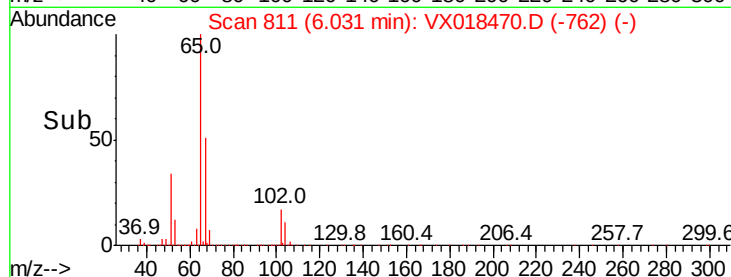
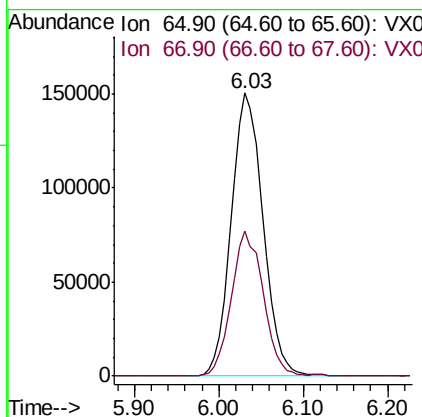
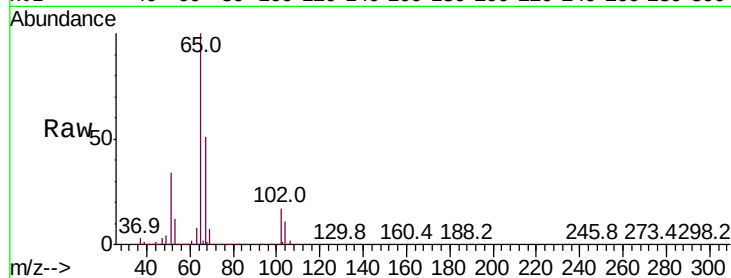




#33
 1,2-Dichloroethane-d4
 Concen: 47.882 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX018470.D
 Acq: 17 Sep 2020 16:46

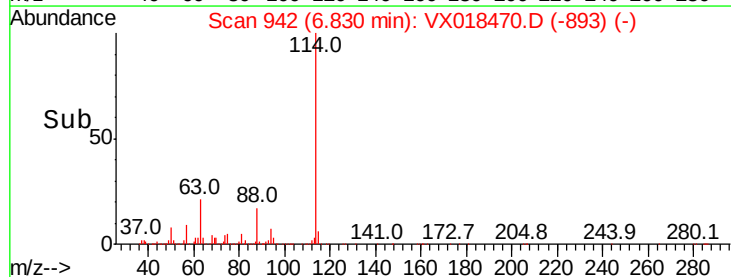
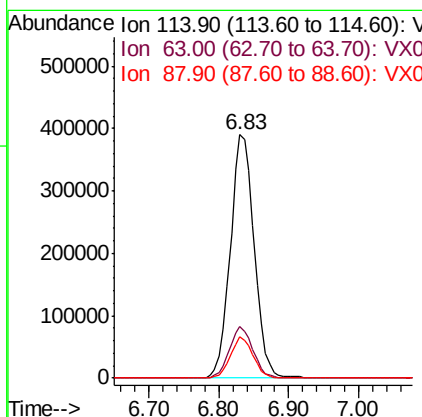
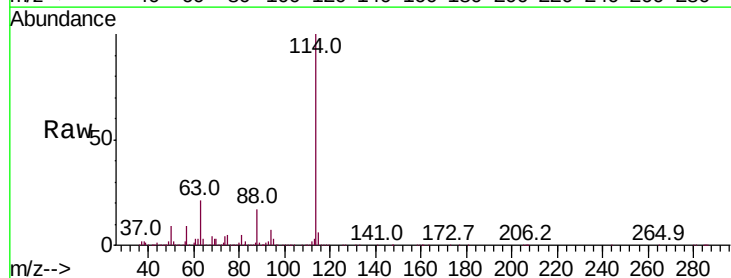
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

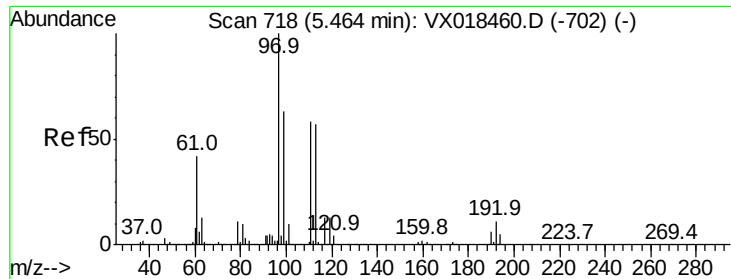
Tot Ion: 65 Resp: 385562
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX018470.D
 Acq: 17 Sep 2020 16:46

Tgt Ion: 114 Resp: 925156
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 42.8
 88 16.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 48.556 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :

MSVOA_X

ClientSampled :

MW-3

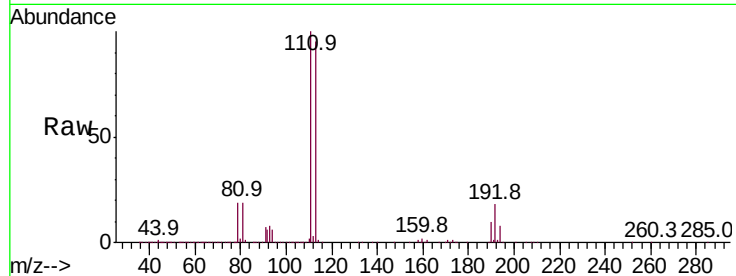
Tot Ion:113 Resp: 310554

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.2

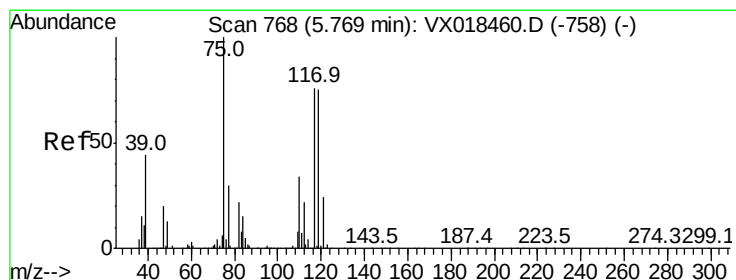
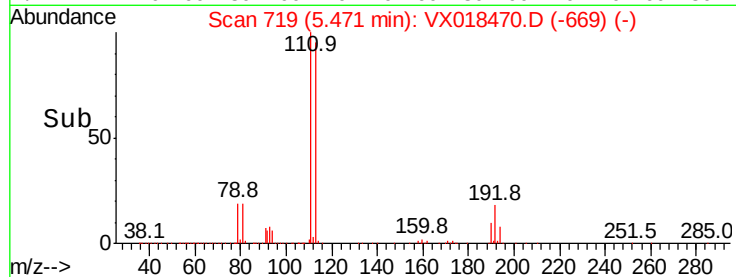
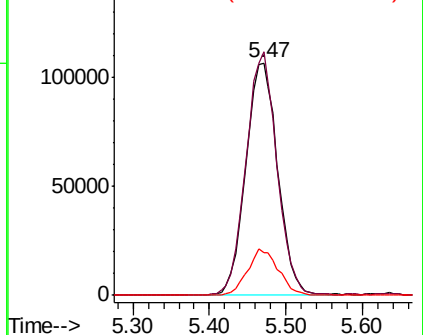
192 19.3 16.6 24.8



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: 4.849 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

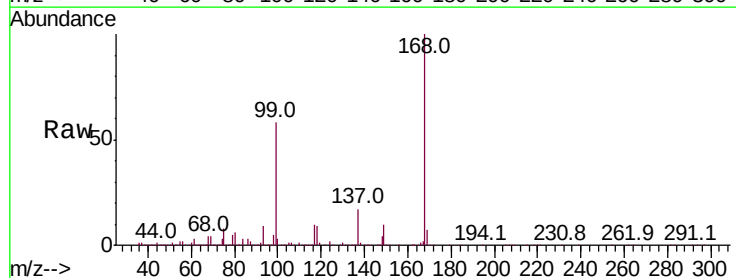
Tgt Ion: 75 Resp: 43542

Ion Ratio Lower Upper

75 100

110 9.9 17.6 52.8#

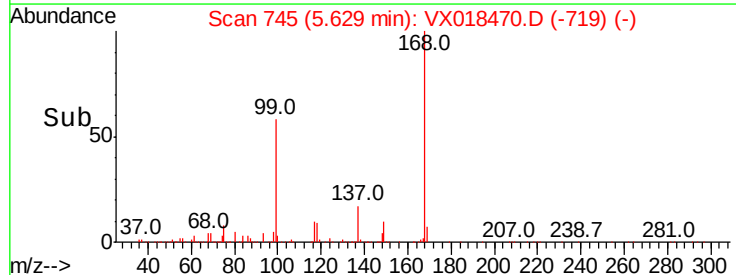
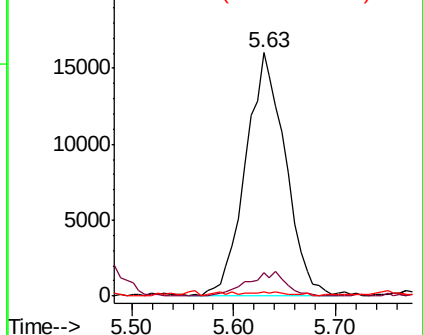
77 0.6 25.0 37.6#

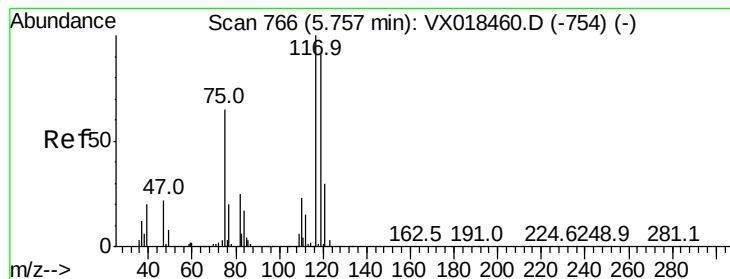


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.851 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :

MSVOA_X

ClientSampled :

MW-3

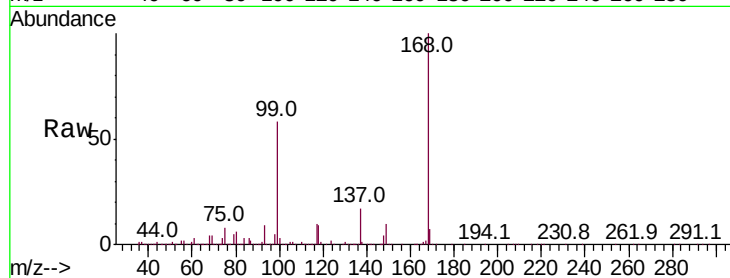
Tot Ion:117 Resp: 58184

Ion Ratio Lower Upper

117 100

119 7.7 72.3 108.5#

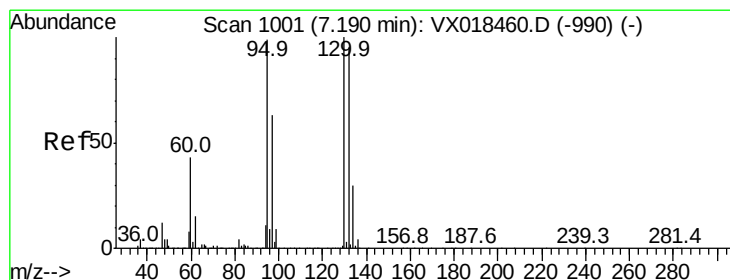
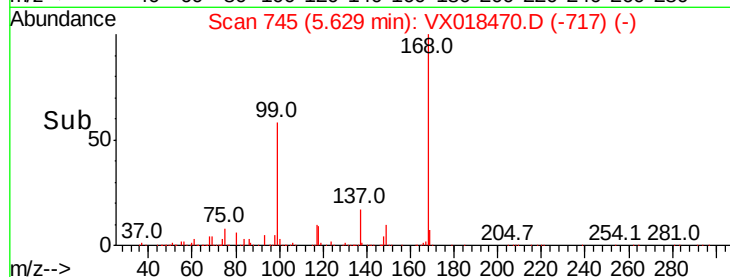
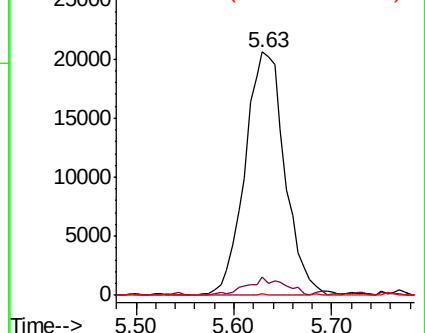
121 0.5 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 4.832 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX018470.D

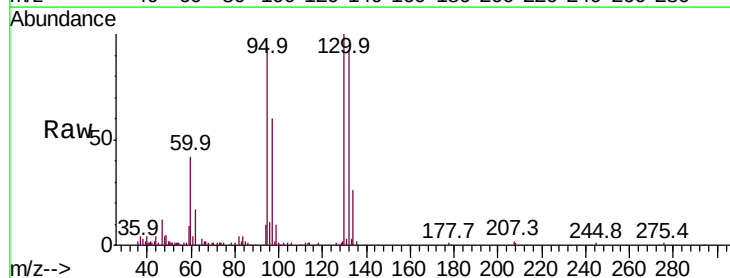
Acq: 17 Sep 2020 16:46

Tgt Ion:130 Resp: 35999

Ion Ratio Lower Upper

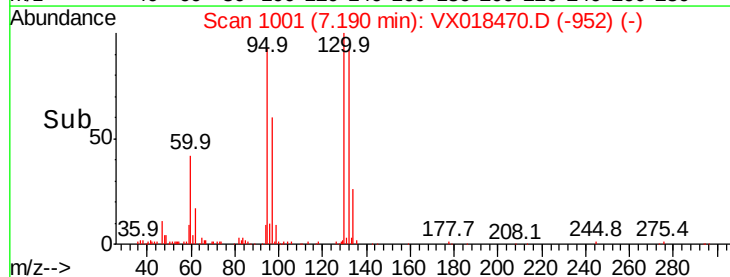
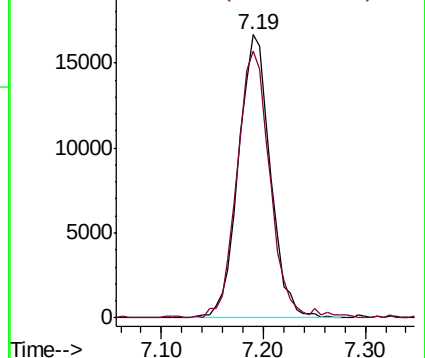
130 100

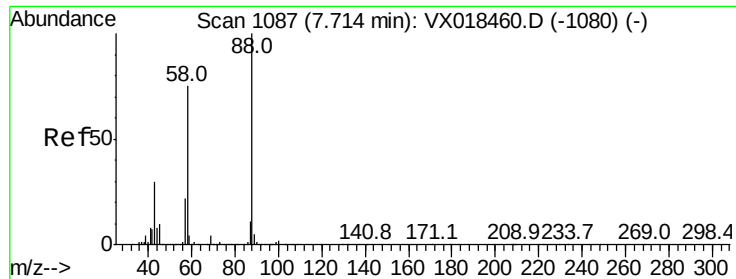
95 93.8 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

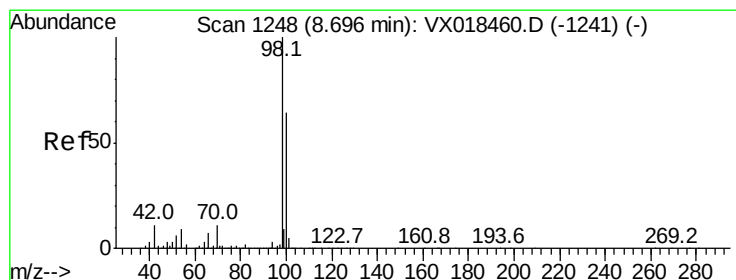
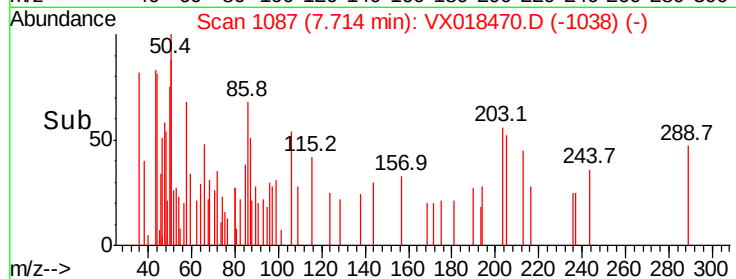
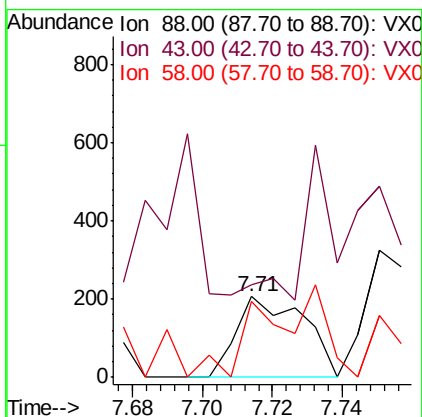
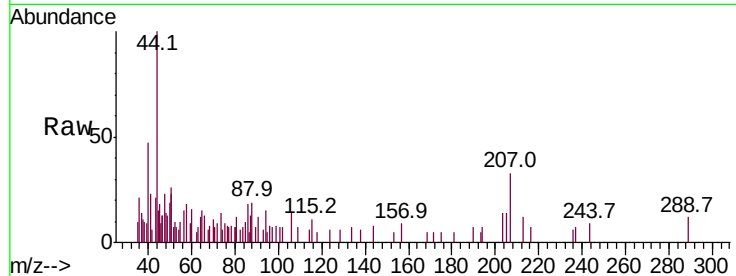




#49
1,4-Dioxane
Concen: 2.157 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. 0.00 min
Lab File: VX018470.D
Acq: 17 Sep 2020 16:46

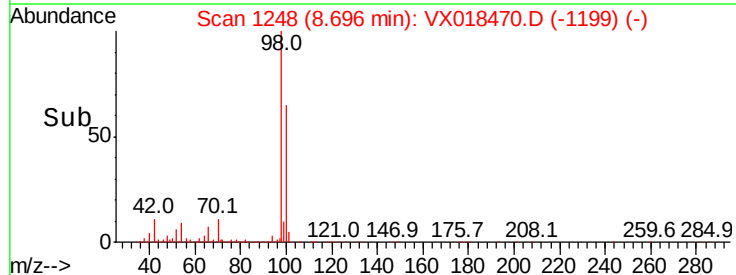
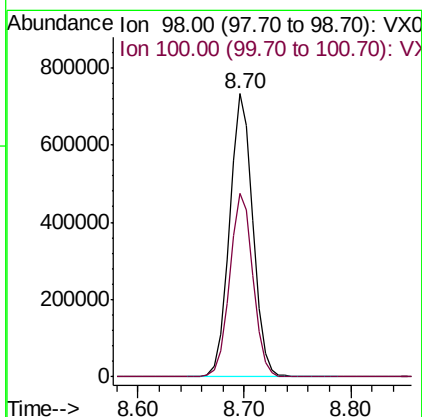
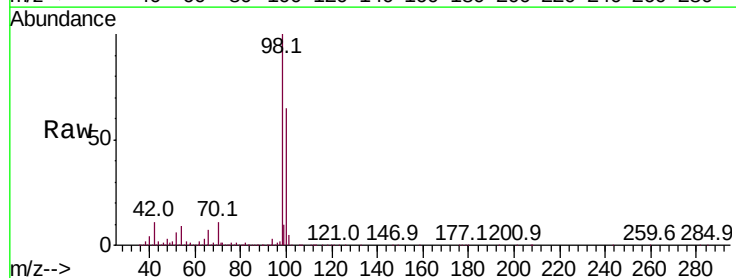
Instrument :
MSVOA_X
ClientSampled :
MW-3

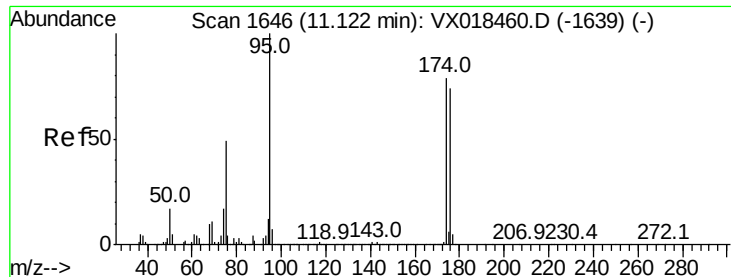
Tot Ion: 88 Resp: 276
Ion Ratio Lower Upper
88 100
43 50.4 29.9 44.9#
58 104.7 59.0 88.6#



#50
Toluene-d8
Concen: 48.318 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018470.D
Acq: 17 Sep 2020 16:46

Tgt Ion: 98 Resp: 1122810
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 44.624 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

MW-3

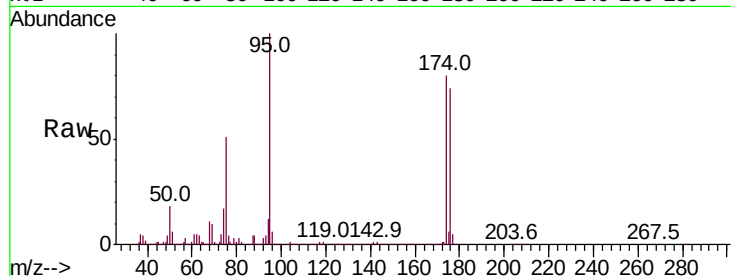
Tot Ion: 95 Resp: 412477

Ion Ratio Lower Upper

95 100

174 80.3 0.0 161.4

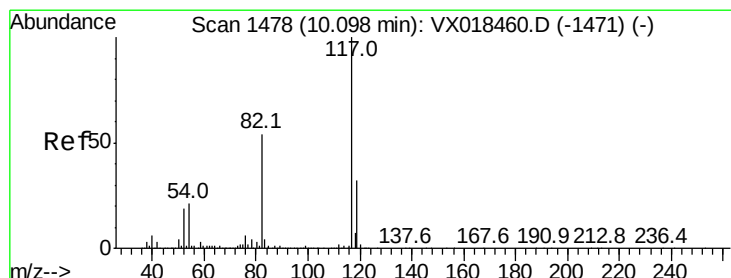
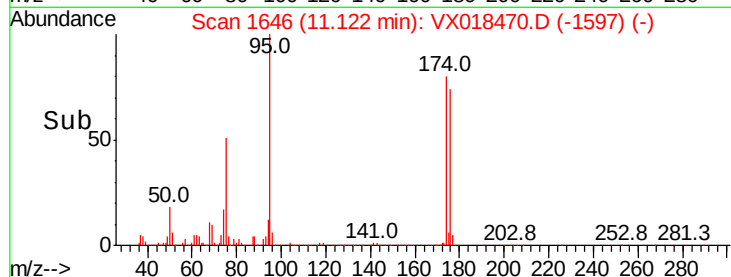
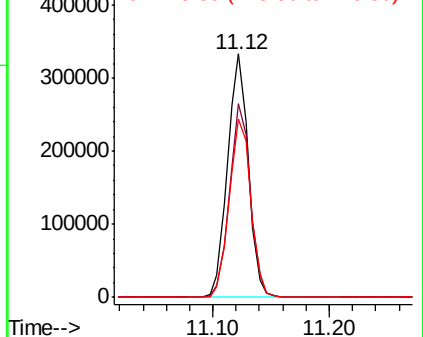
176 76.4 0.0 151.4



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. 0.00 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

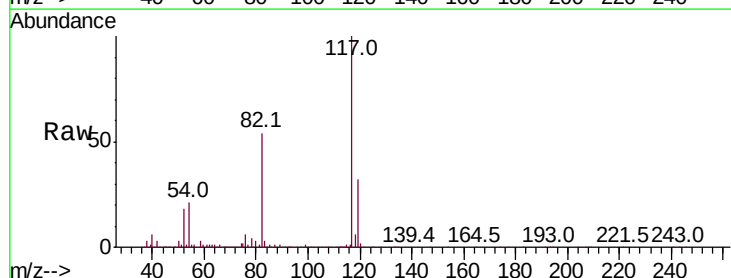
Tgt Ion: 117 Resp: 877213

Ion Ratio Lower Upper

117 100

82 53.8 43.3 64.9

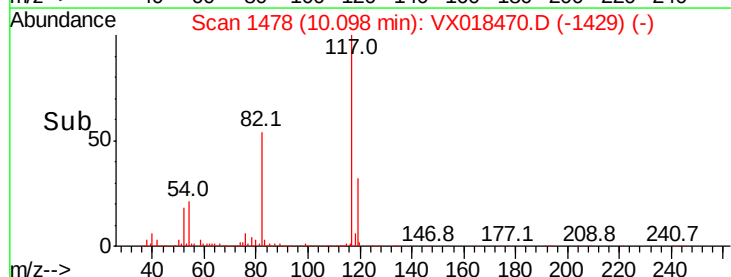
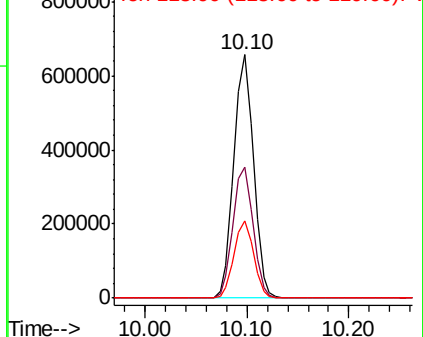
119 31.6 25.9 38.9

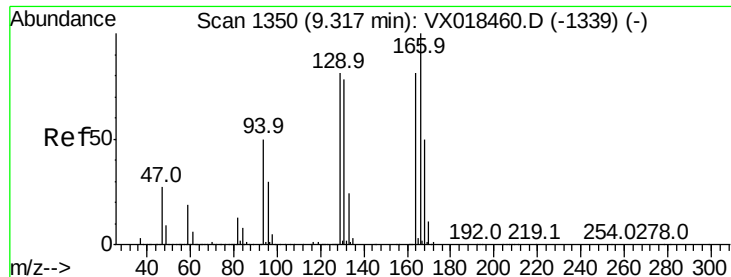


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.463 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

MW-3

Tot Ion:164 Resp: 3197

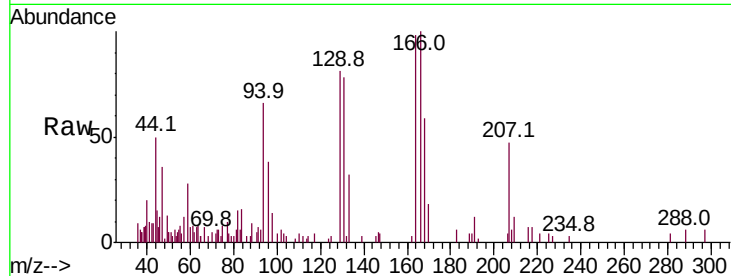
Ion Ratio Lower Upper

164 100

166 101.8 99.3 148.9

129 82.7 80.7 121.1

131 79.6 77.2 115.8

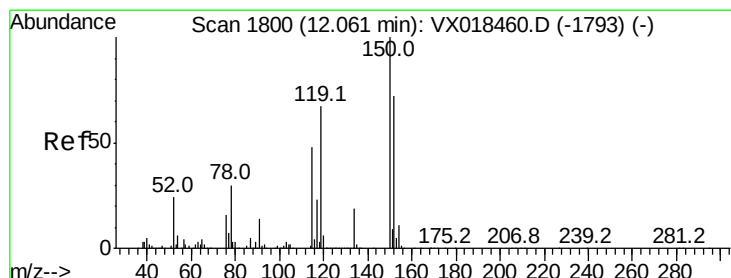
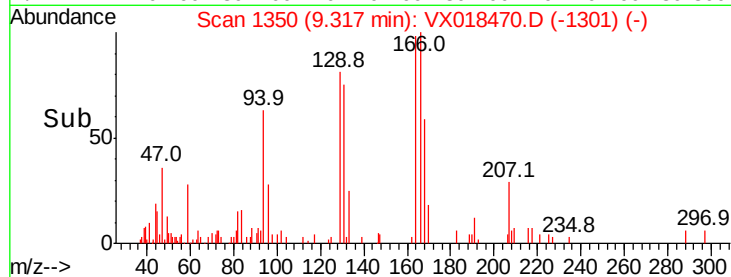
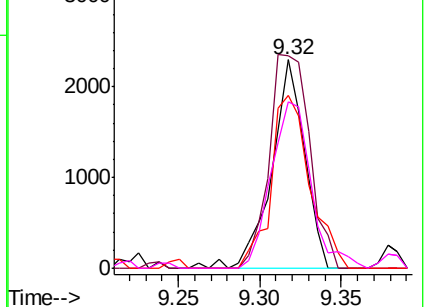


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

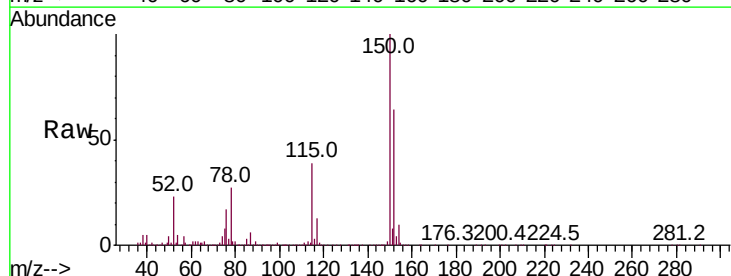
Tgt Ion:152 Resp: 431729

Ion Ratio Lower Upper

152 100

115 57.7 41.8 125.4

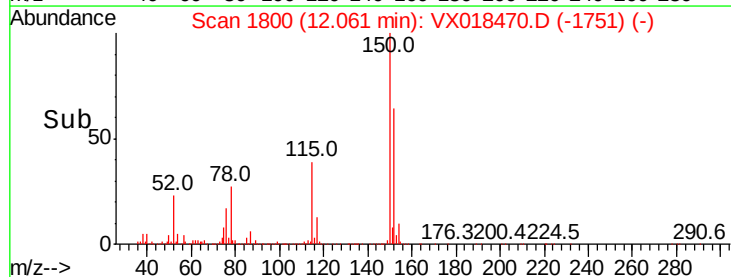
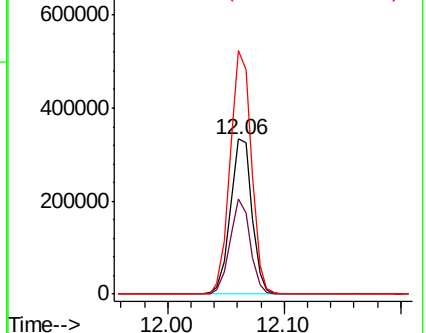
150 154.7 0.0 342.4

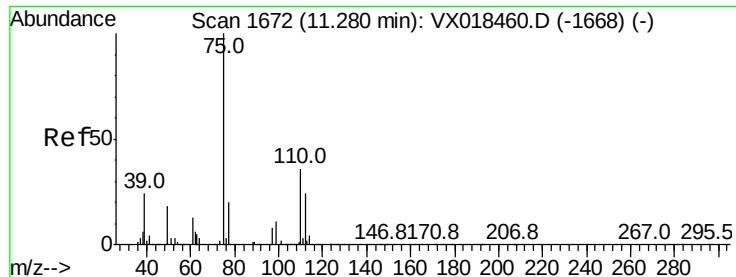


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.225 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

Instrument :

MSVOA_X

ClientSampled :

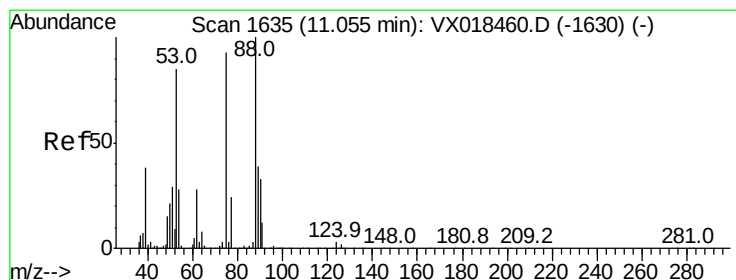
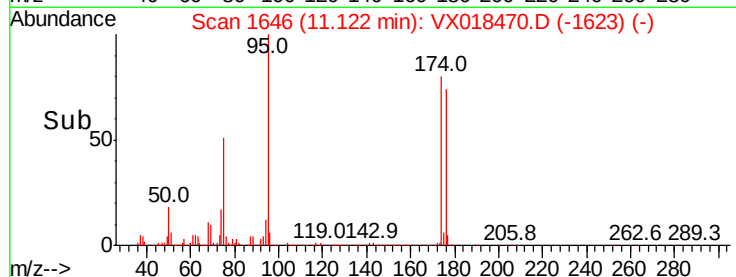
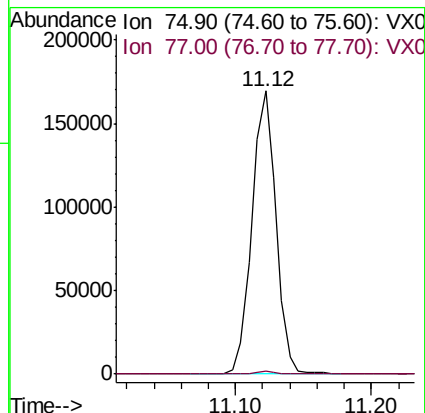
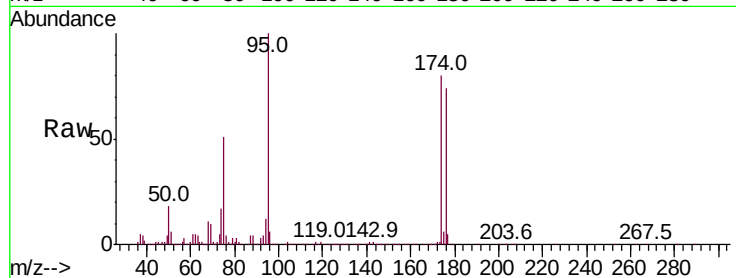
MW-3

Tot Ion: 75 Resp: 210707

Ion Ratio Lower Upper

75 100

77 1.2 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.513 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018470.D

Acq: 17 Sep 2020 16:46

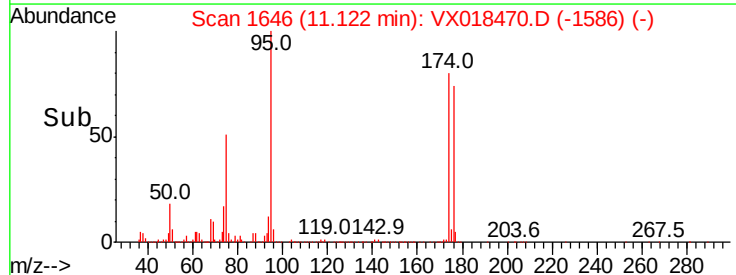
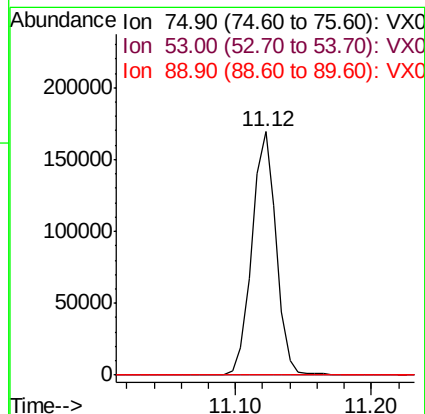
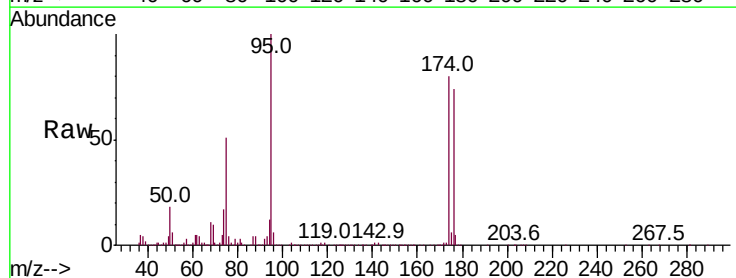
Tgt Ion: 75 Resp: 210707

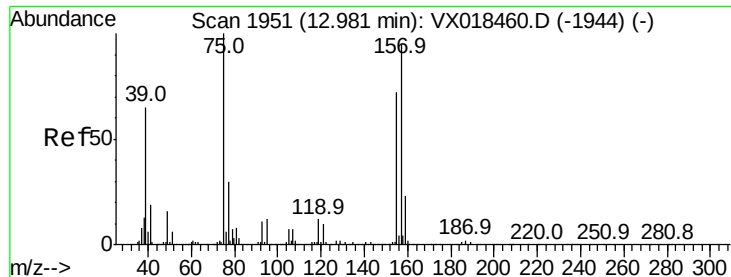
Ion Ratio Lower Upper

75 100

53 0.3 74.6 111.8#

89 0.1 36.2 54.4#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.214 ug/l
 RT: 12.98 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VX018470.D
 Acq: 17 Sep 2020 16:46

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Tot Ion: 75 Resp: 495
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.8 116.4#
 157 31.9 51.1 153.3#

