

Data File : VX017231.D
Acq On : 08 Jul 2020 02:52
Operator : JC/SP
Sample : L3232-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1003-MW-01DL

Quant Time: Jul 08 04:05:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	243092	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	407762	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	425891	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	231127	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	163069	54.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.82%	
35) Dibromofluoromethane	5.46	113	140558	54.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.98%	
50) Toluene-d8	8.70	98	501895	52.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.24%	
62) 4-Bromofluorobenzene	11.12	95	210201	56.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.76%	

Target Compounds

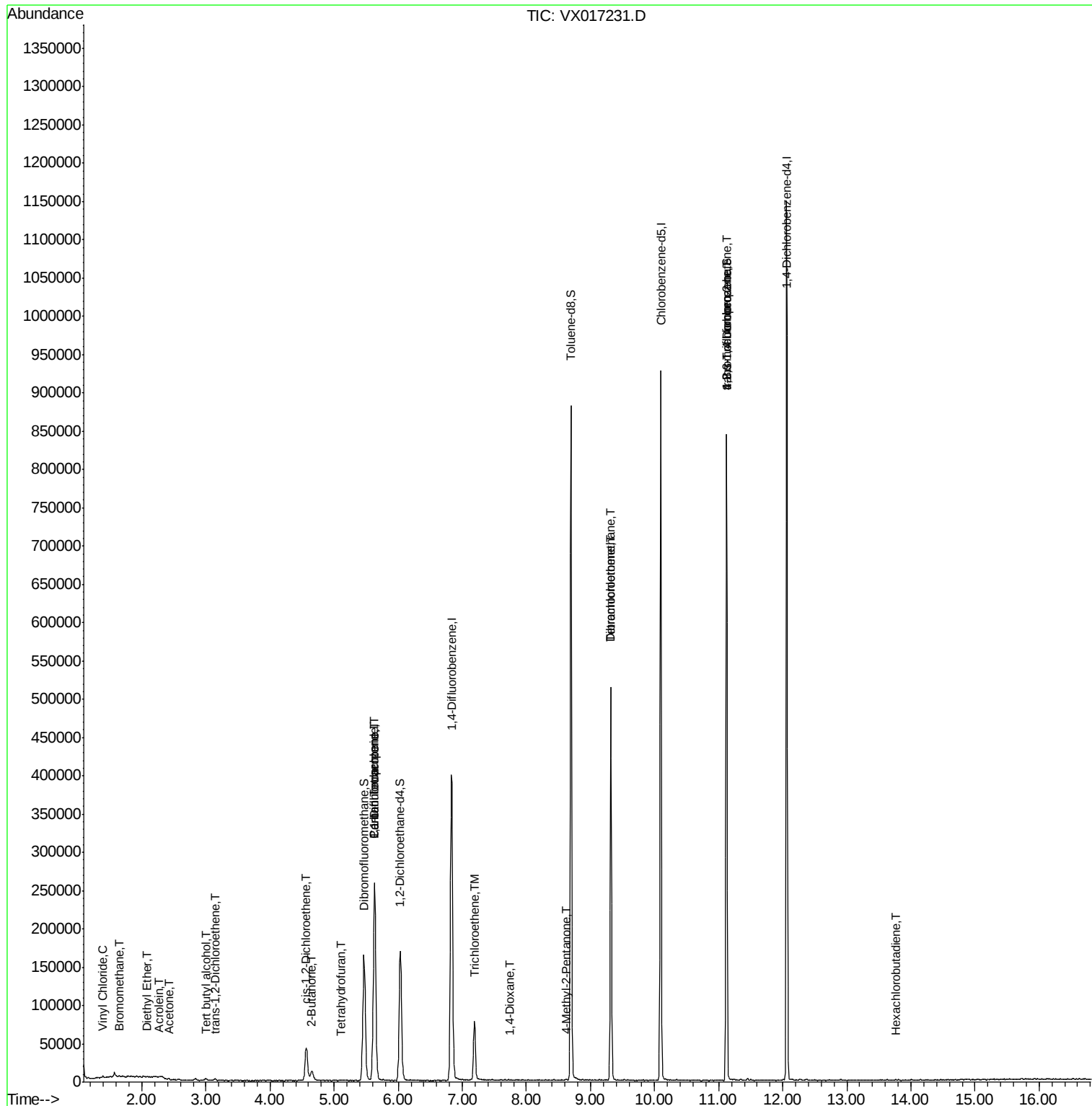
						Qvalue
4) Vinyl Chloride	1.39	62	1149	0.435	ug/l #	48
5) Bromomethane	1.64	94	368	0.264	ug/l #	1
8) Diethyl Ether	2.08	74	126	0.461	ug/l	63
11) Tert butyl alcohol	3.00	59	1807	3.161	ug/l #	82
13) Acrolein	2.28	56	318	0.930	ug/l #	66
16) Acetone	2.42	43	2137	1.906	ug/l	93
20) Methylene Chloride	2.83	84	1169	Below Cal		92
21) trans-1,2-Dichloroethene	3.15	96	1046	0.392	ug/l #	74
25) 2-Butanone	4.65	43	830	0.444	ug/l #	49
27) cis-1,2-Dichloroethene	4.57	96	28394	9.389	ug/l	90
29) Tetrahydrofuran	5.10	42	485	0.393	ug/l #	42
36) 1,1-Dichloropropene	5.63	75	17855	4.633	ug/l #	50
38) Carbon Tetrachloride	5.63	117	23480	5.532	ug/l #	18
44) Trichloroethene	7.19	130	29330	9.134	ug/l	94
49) 1,4-Dioxane	7.74	88	24	0.343	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	1038	0.268	ug/l #	67
60) Dibromochloromethane	9.32	129	94625	28.206	ug/l #	11
64) Tetrachloroethene	9.32	164	101997	29.674	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	102210	22.489	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	102210	58.237	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	422	Below Cal		87
94) Hexachlorobutadiene	13.77	225	107	0.902	ug/l #	29

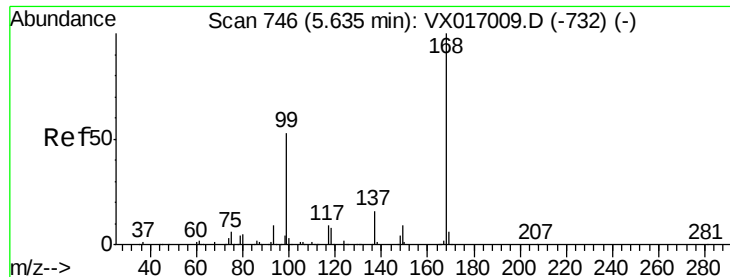
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

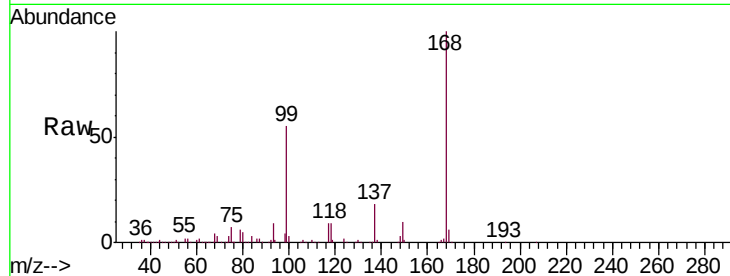
1003-MW-01DL

Tgt Ion:168 Resp: 243092

Ion Ratio Lower Upper

168 100

99 54.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

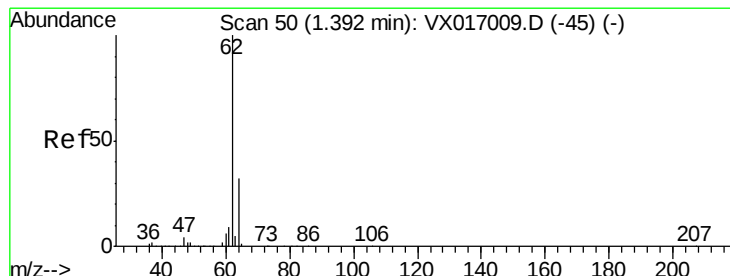
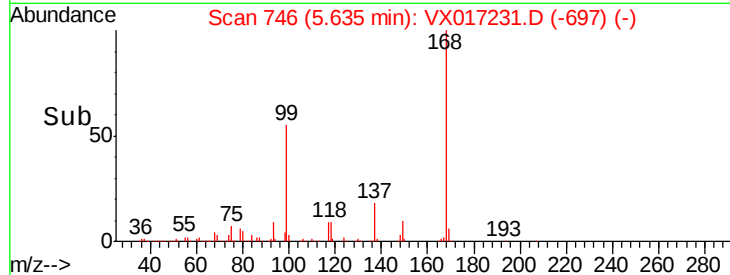
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 0.435 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017231.D

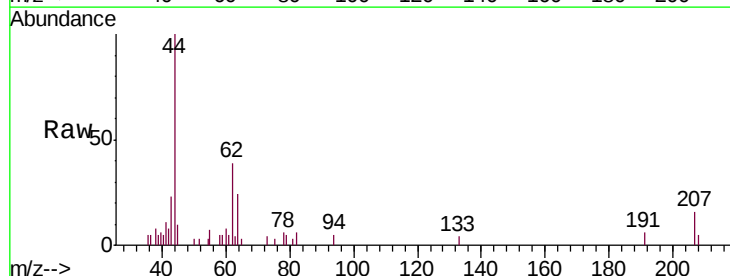
Acq: 08 Jul 2020 02:52

Tgt Ion: 62 Resp: 1149

Ion Ratio Lower Upper

62 100

64 61.6 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

1000

800

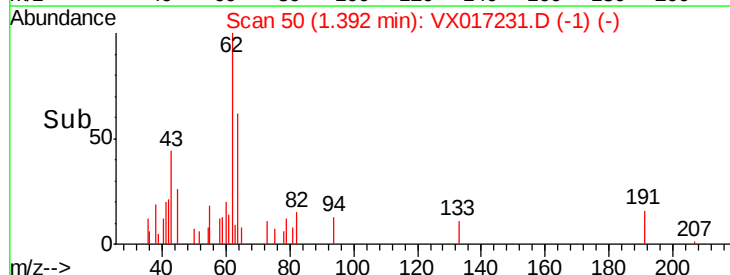
600

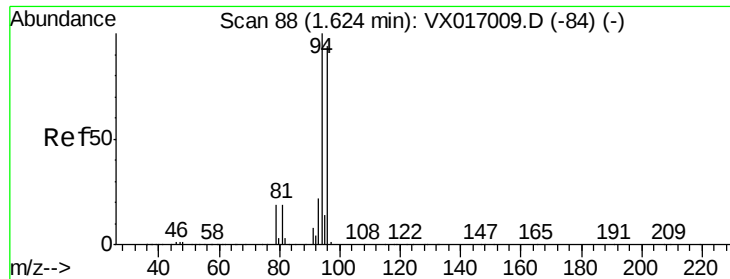
400

200

0

Time-->





#5

Bromomethane

Concen: 0.264 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

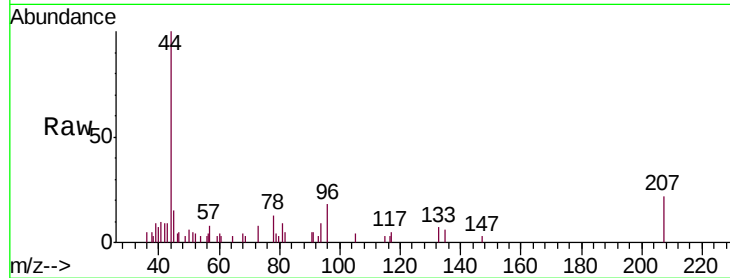
1003-MW-01DL

Tgt Ion: 94 Resp: 368

Ion Ratio Lower Upper

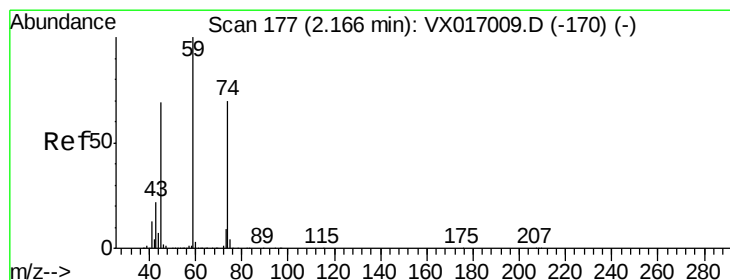
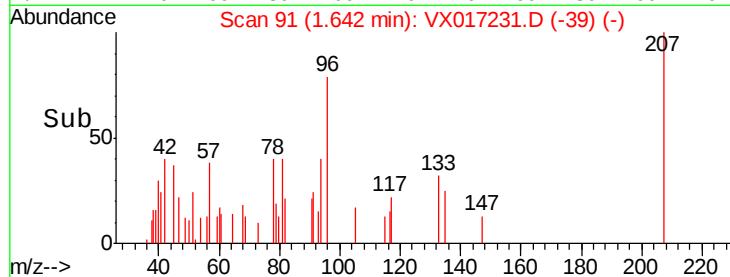
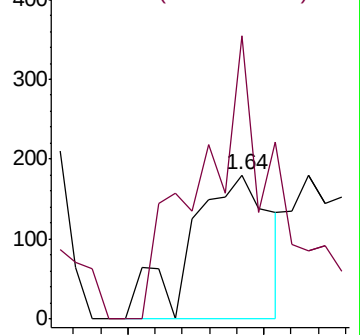
94 100

96 196.7 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.461 ug/l

RT: 2.08 min Scan# 163

Delta R.T. -0.09 min

Lab File: VX017231.D

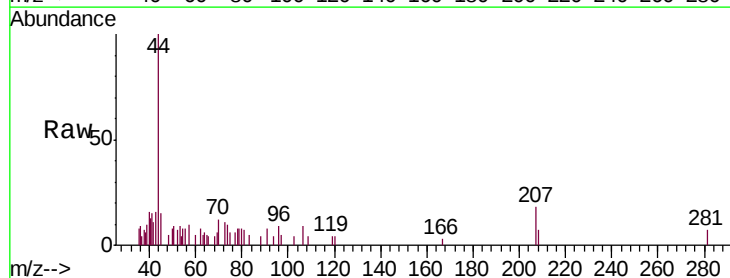
Acq: 08 Jul 2020 02:52

Tgt Ion: 74 Resp: 126

Ion Ratio Lower Upper

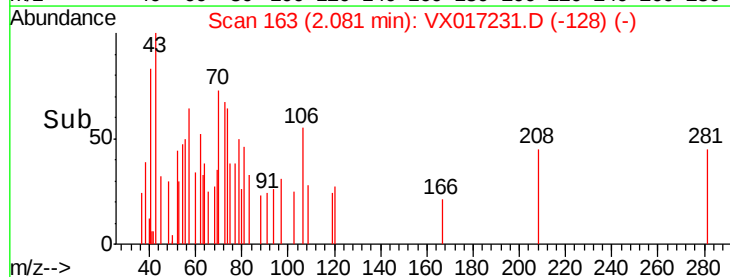
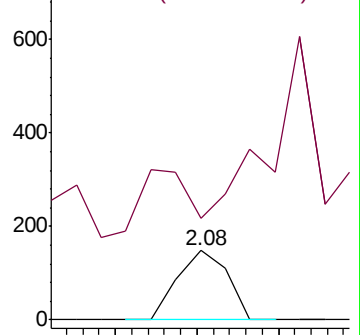
74 100

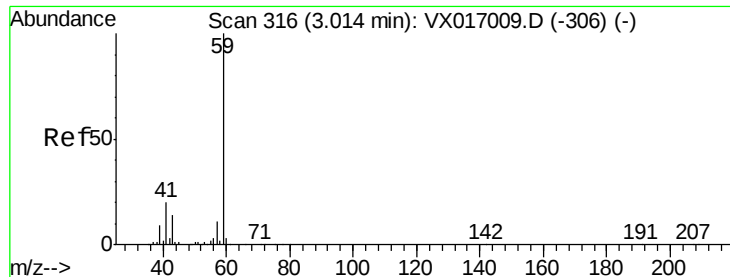
45 136.5 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

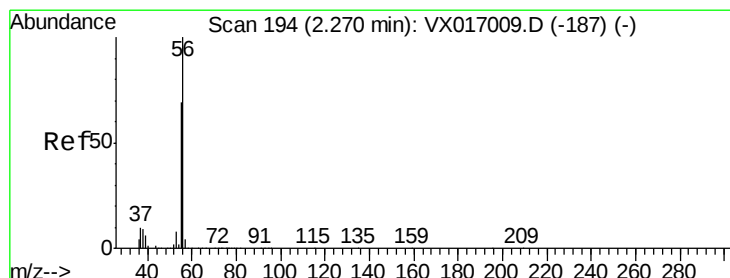
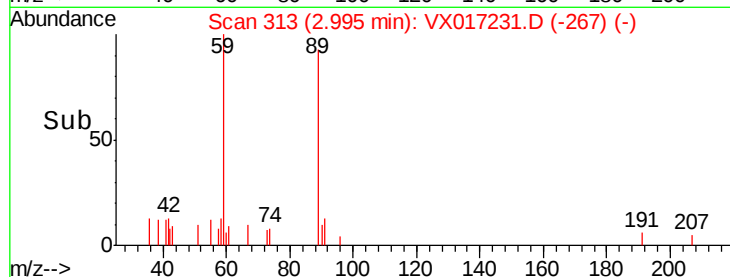
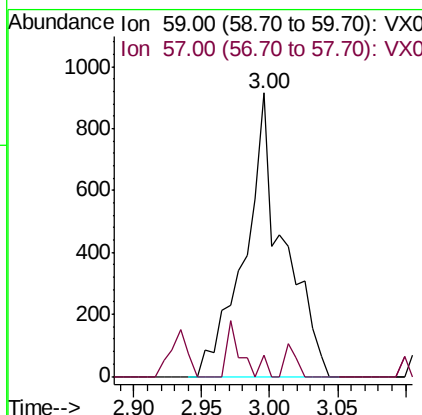
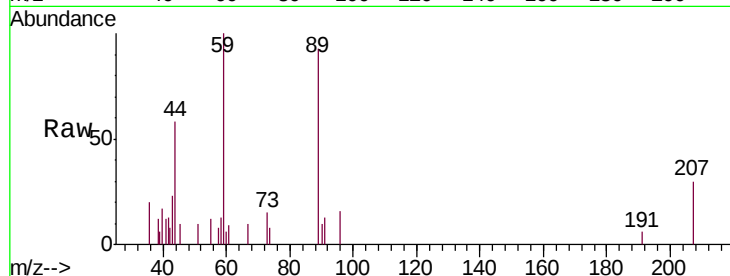




#11
Tert butyl alcohol
Concen: 3.161 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX017231.D
Acq: 08 Jul 2020 02:52

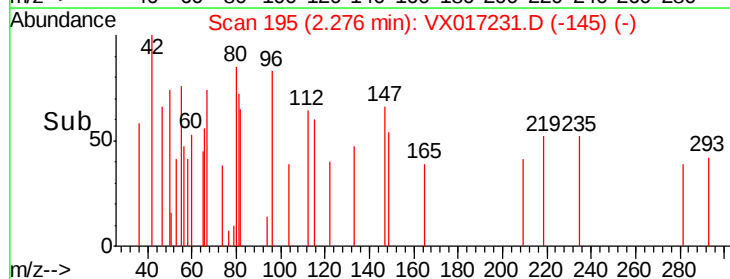
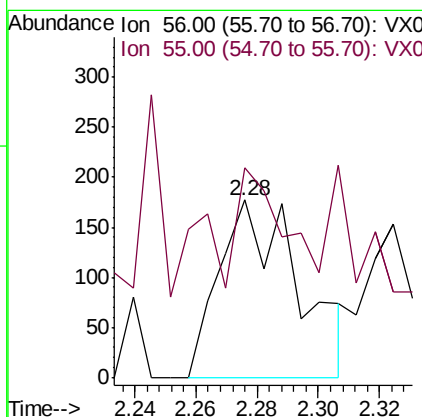
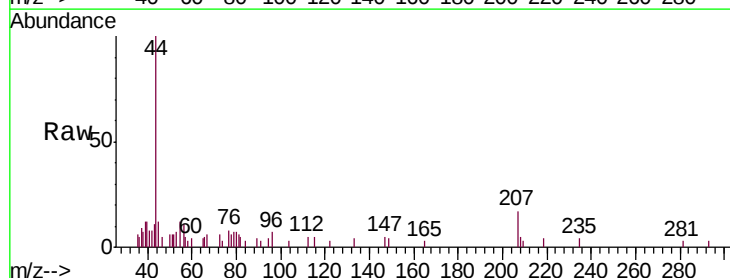
Instrument :
MSVOA_X
ClientSampleId :
1003-MW-01DL

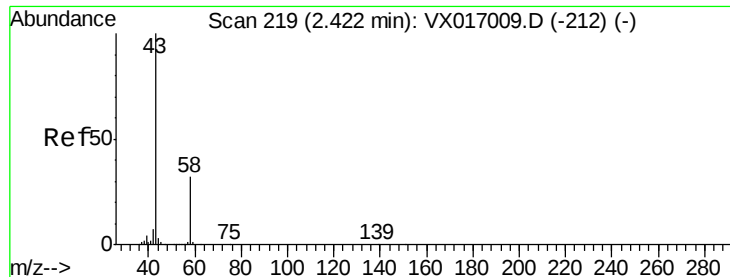
Tgt Ion: 59 Resp: 1807
Ion Ratio Lower Upper
59 100
57 3.4 8.2 12.2#



#13
Acrolein
Concen: 0.930 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX017231.D
Acq: 08 Jul 2020 02:52

Tgt Ion: 56 Resp: 318
Ion Ratio Lower Upper
56 100
55 42.1 55.7 83.5#





#16

Acetone

Concen: 1.906 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampled :

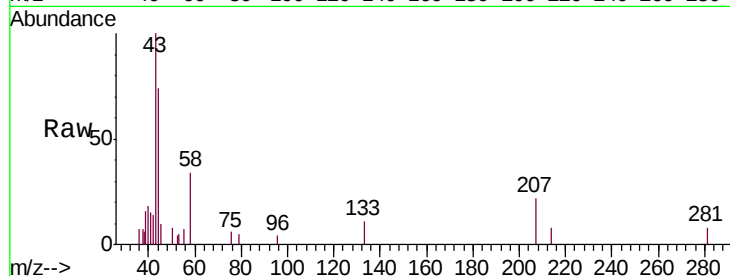
1003-MW-01DL

Tgt Ion: 43 Resp: 2137

Ion Ratio Lower Upper

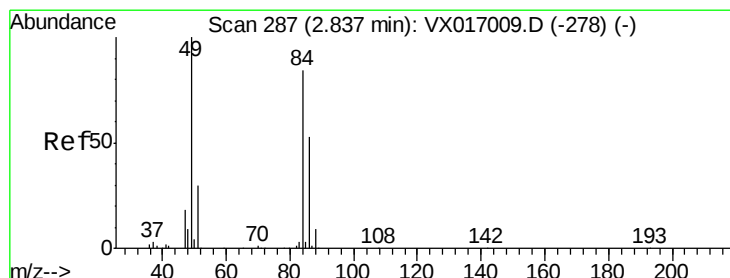
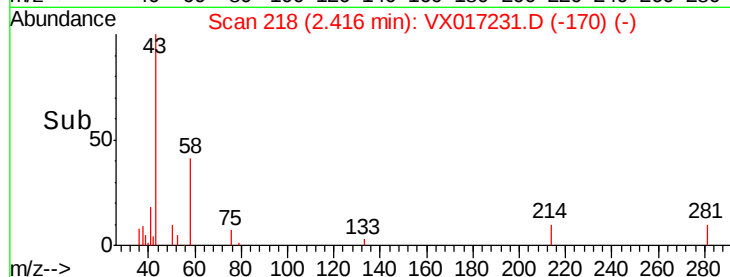
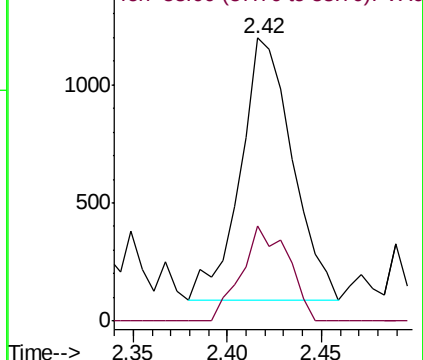
43 100

58 36.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Tgt Ion: 84 Resp: 1169

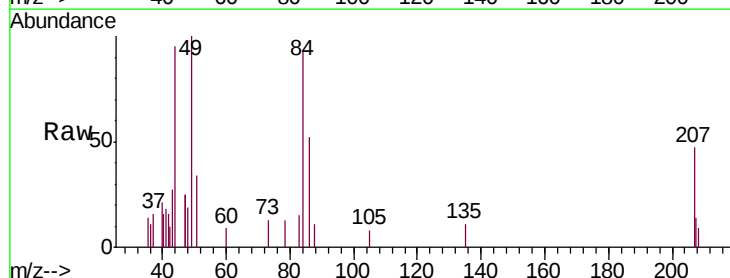
Ion Ratio Lower Upper

84 100

49 107.5 94.7 142.1

51 36.1 28.6 42.8

86 55.6 50.5 75.7

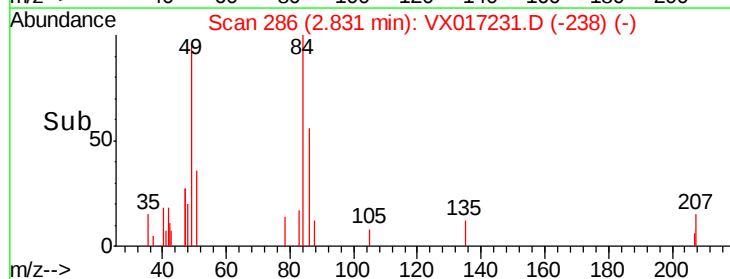
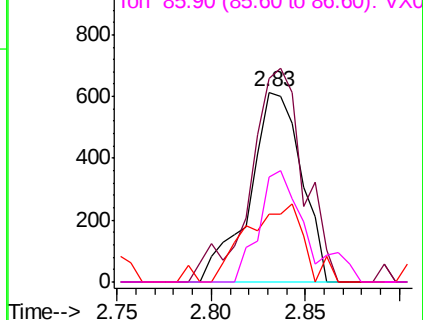


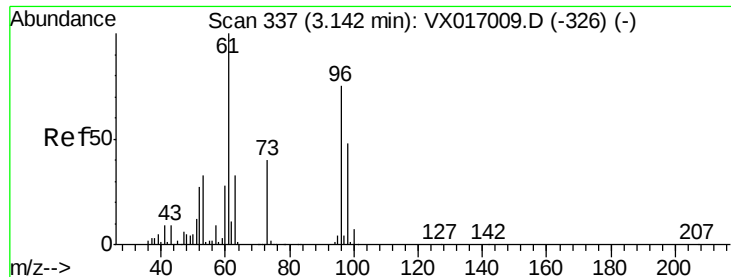
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.392 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

1003-MW-01DL

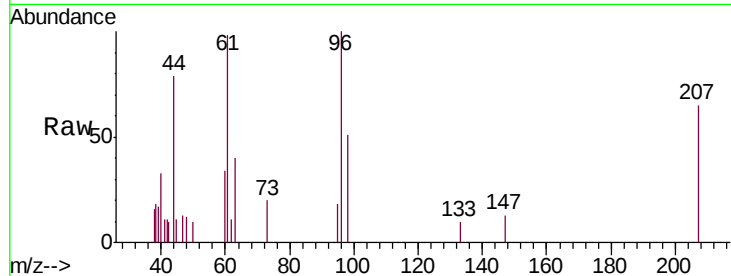
Tgt Ion: 96 Resp: 1046

Ion Ratio Lower Upper

96 100

61 98.1 107.0 160.6#

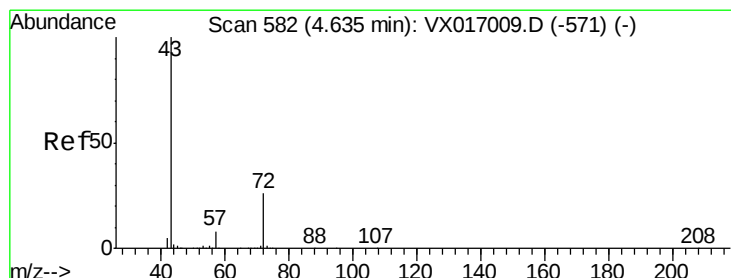
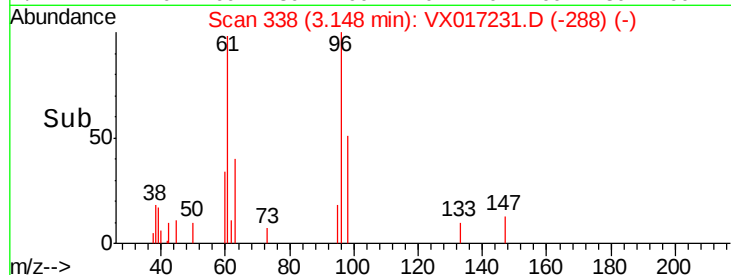
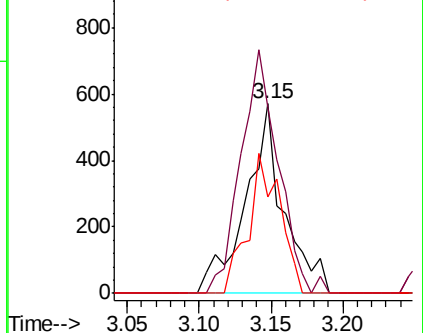
98 50.6 51.6 77.4#



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



#25

2-Butanone

Concen: 0.444 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017231.D

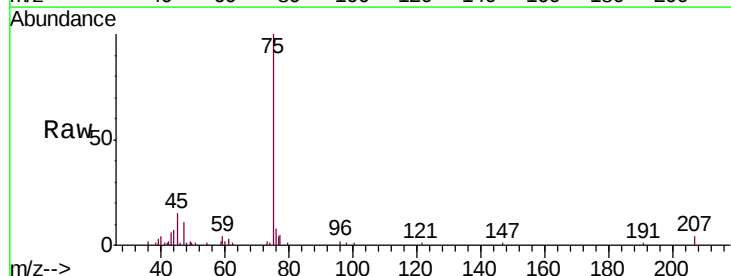
Acq: 08 Jul 2020 02:52

Tgt Ion: 43 Resp: 830

Ion Ratio Lower Upper

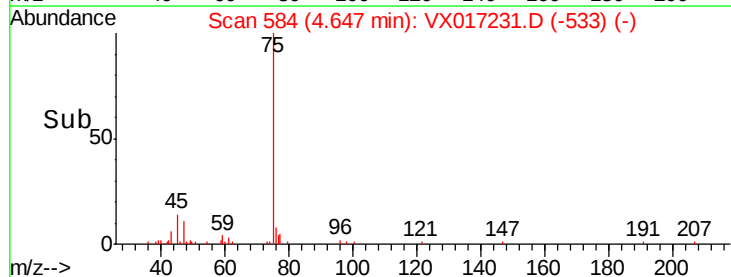
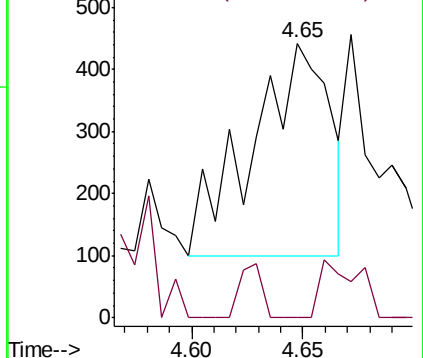
43 100

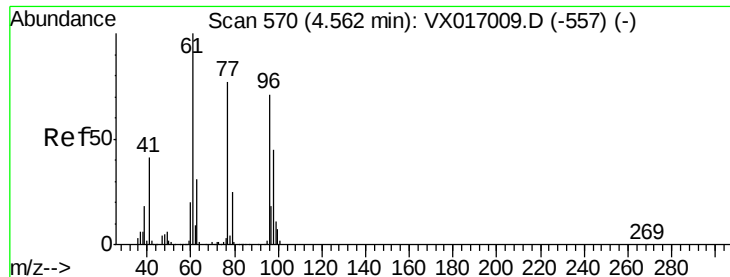
72 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



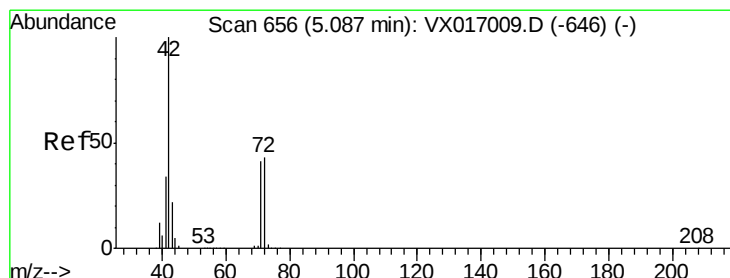
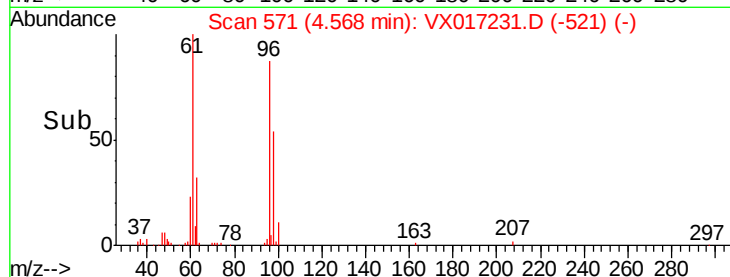
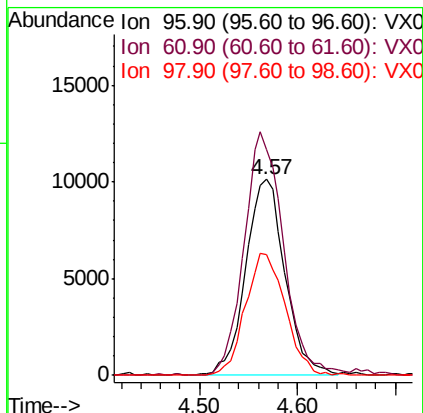
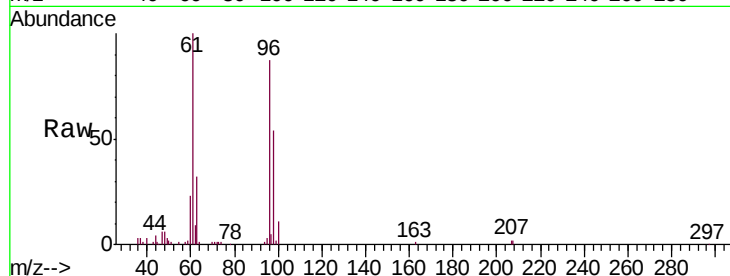


#27

cis-1,2-Dichloroethene
 Concen: 9.389 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX017231.D
 Acq: 08 Jul 2020 02:52

Instrument :
 MSVOA_X
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 1003-MW-01DL

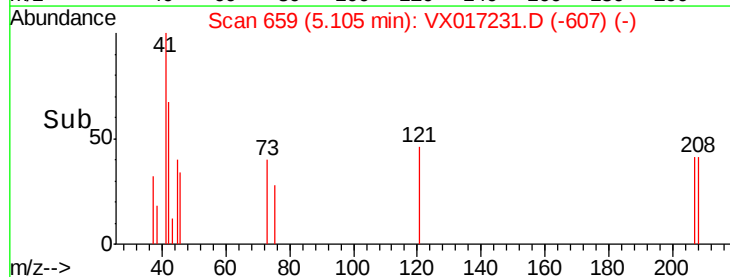
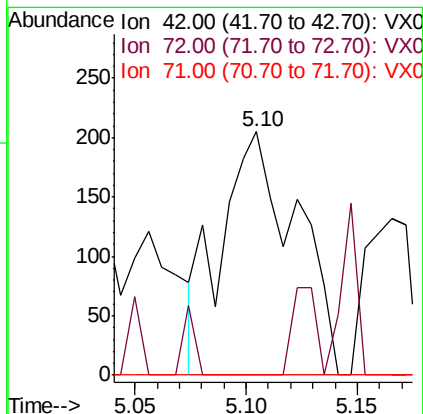
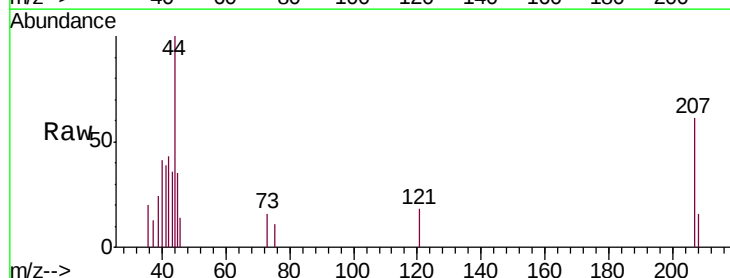
Tgt Ion: 96 Resp: 28394
 Ion Ratio Lower Upper
 96 100
 61 124.4 0.0 282.8
 98 63.1 0.0 127.6

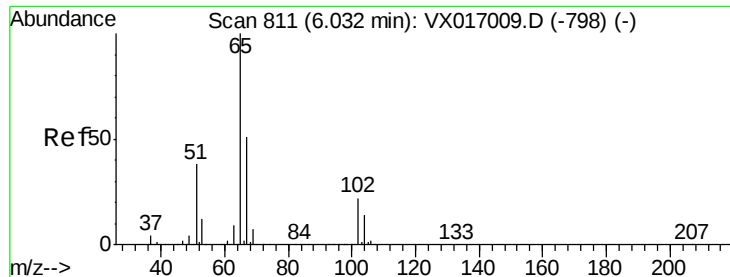


#29

Tetrahydrofuran
 Concen: 0.393 ug/l
 RT: 5.10 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VX017231.D
 Acq: 08 Jul 2020 02:52

Tgt Ion: 42 Resp: 485
 Ion Ratio Lower Upper
 42 100
 72 11.1 35.3 52.9#
 71 0.0 33.1 49.7#





#33

1,2-Dichloroethane-d4

Concen: 54.414 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

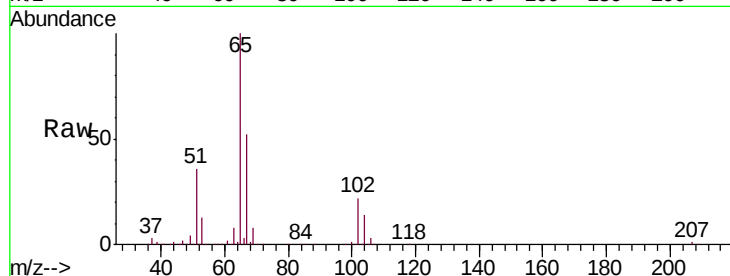
1003-MW-01DL

Tgt Ion: 65 Resp: 163069

Ion Ratio Lower Upper

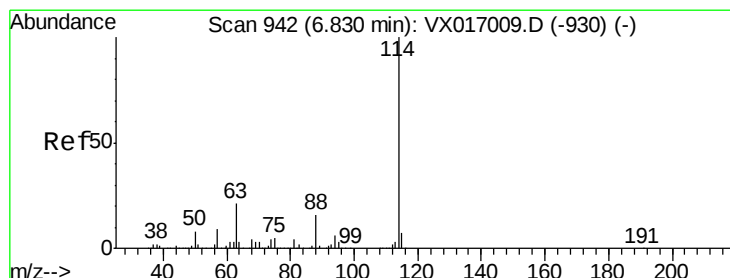
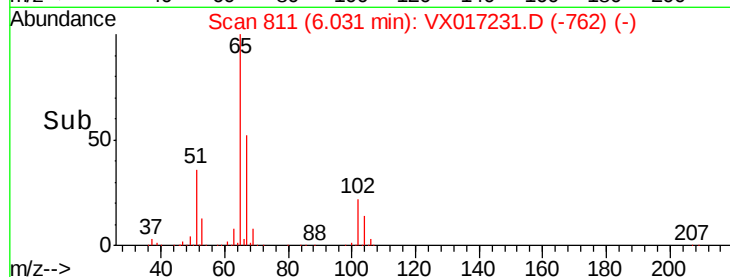
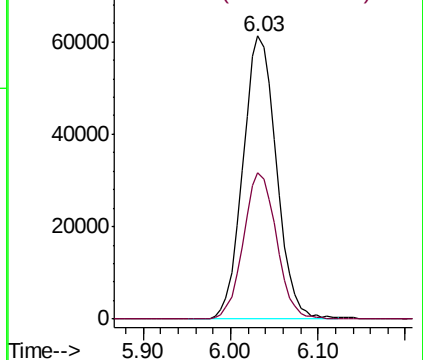
65 100

67 51.2 0.0 103.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

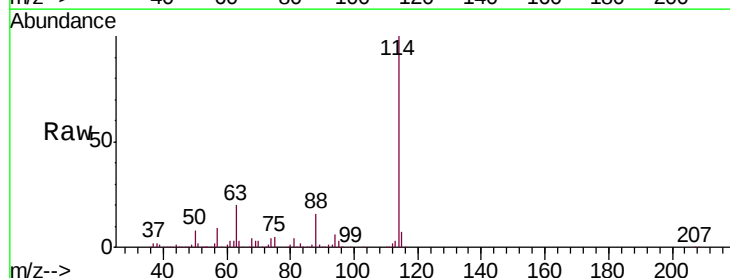
Tgt Ion: 114 Resp: 407762

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.4

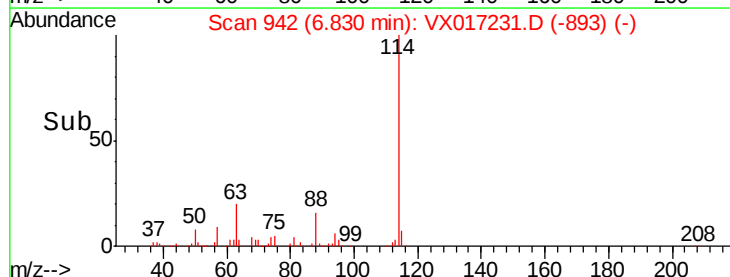
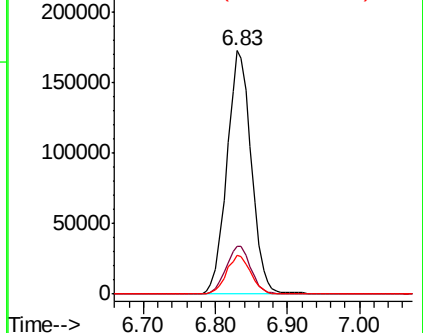
88 15.9 0.0 32.4

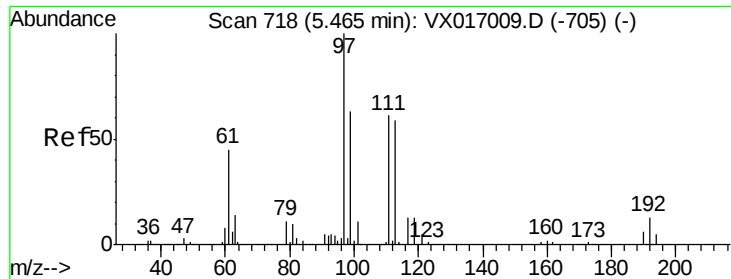


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

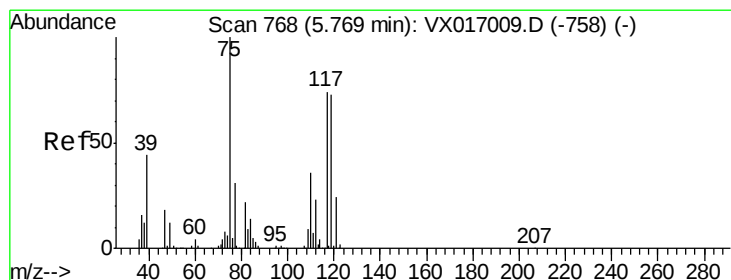
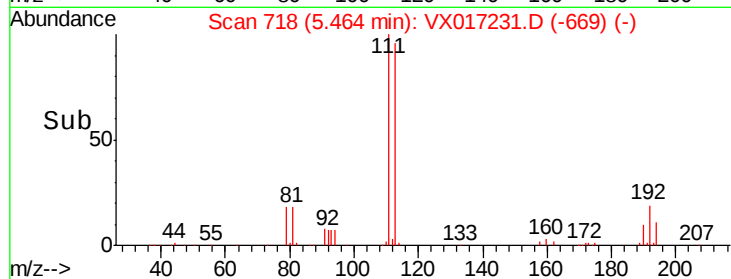
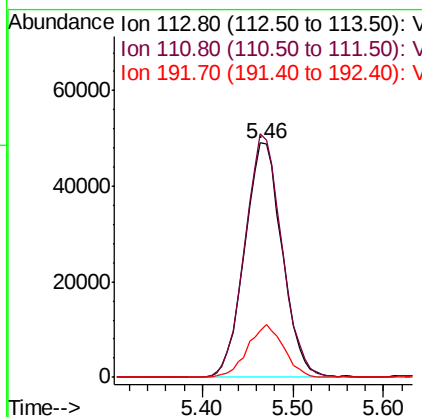
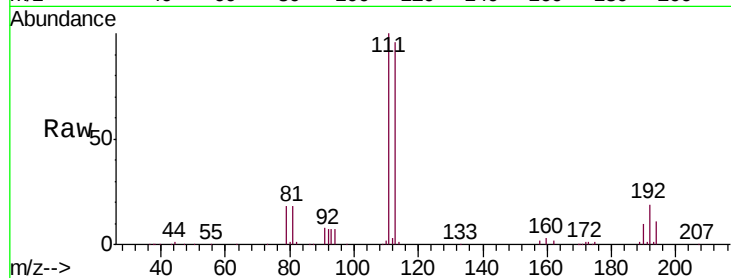




#35
Dibromofluoromethane
Concen: 54.493 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.00 min
Lab File: VX017231.D
Acq: 08 Jul 2020 02:52

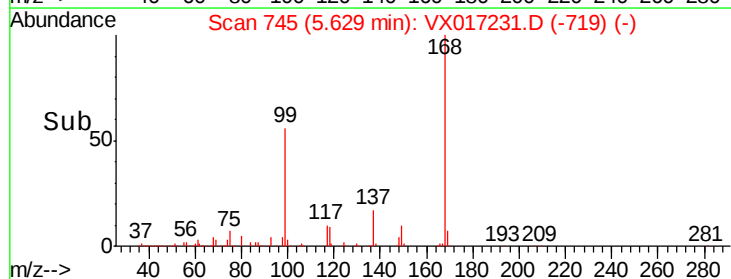
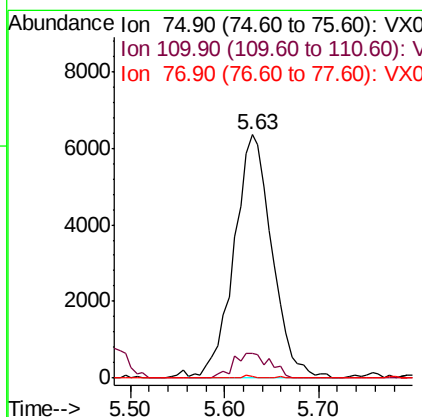
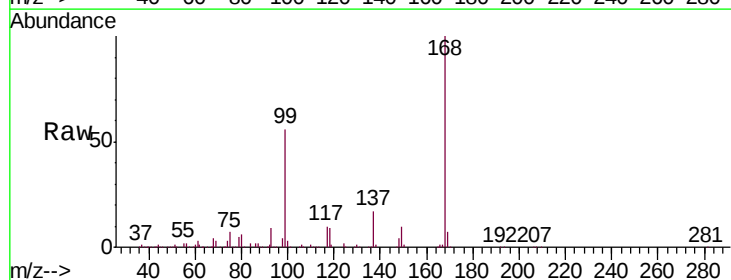
Instrument :
MSVOA_X
ClientSampleId :
1003-MW-01DL

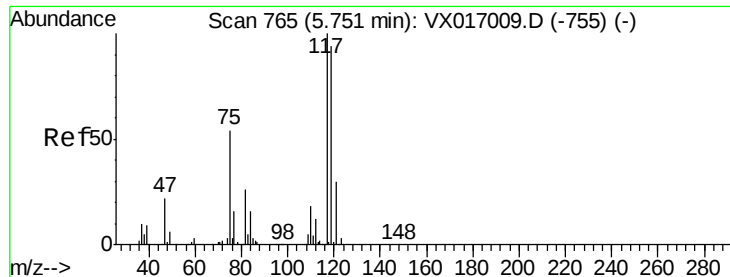
Tgt Ion:113 Resp: 140558
Ion Ratio Lower Upper
113 100
111 102.3 81.9 122.9
192 21.7 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.633 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX017231.D
Acq: 08 Jul 2020 02:52

Tgt Ion: 75 Resp: 17855
Ion Ratio Lower Upper
75 100
110 10.0 18.1 54.1#
77 0.3 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.532 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

1003-MW-01DL

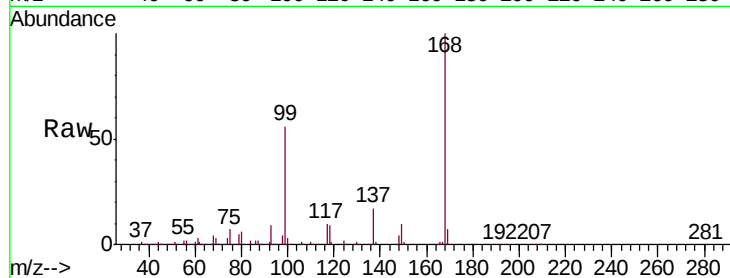
Tgt Ion:117 Resp: 23480

Ion Ratio Lower Upper

117 100

119 6.9 75.4 113.0#

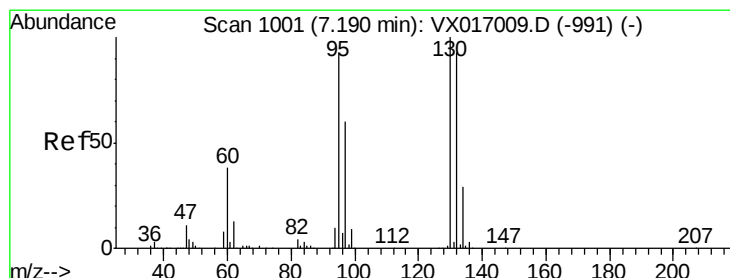
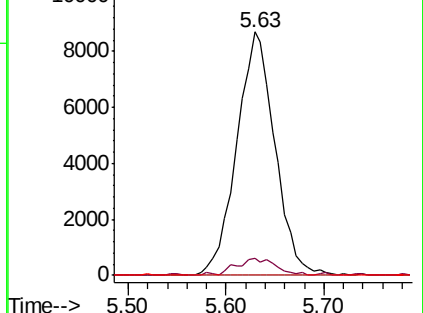
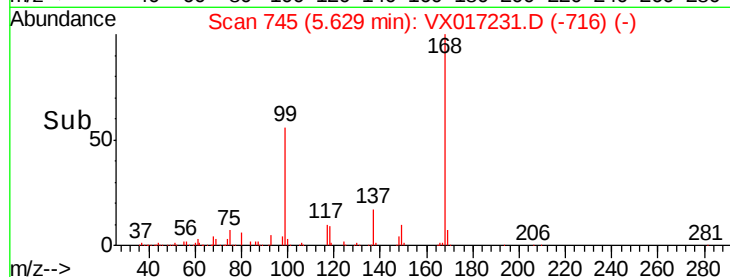
121 0.0 23.8 35.6#



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: 9.134 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017231.D

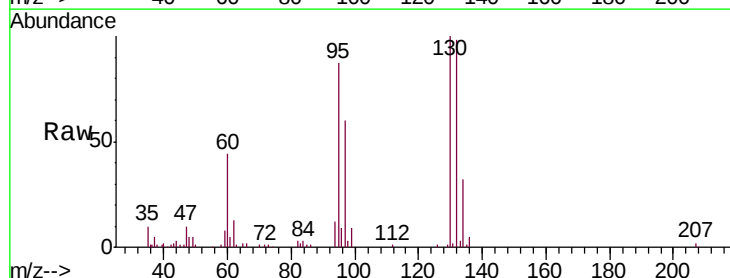
Acq: 08 Jul 2020 02:52

Tgt Ion:130 Resp: 29330

Ion Ratio Lower Upper

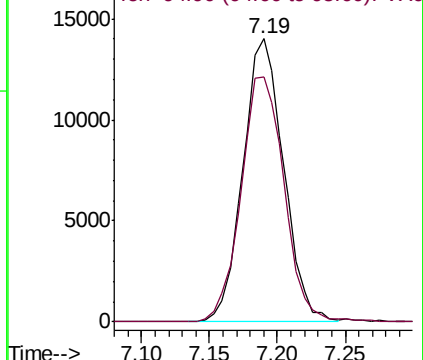
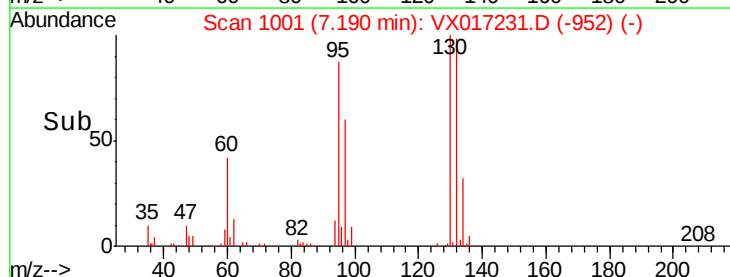
130 100

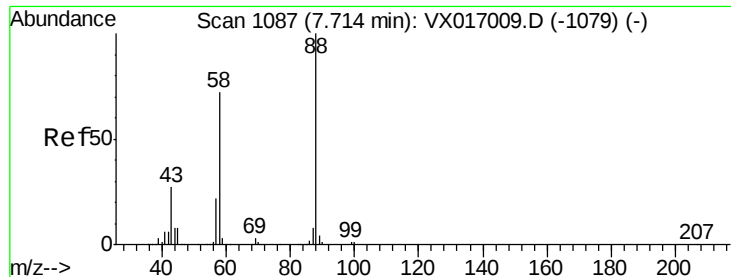
95 86.6 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

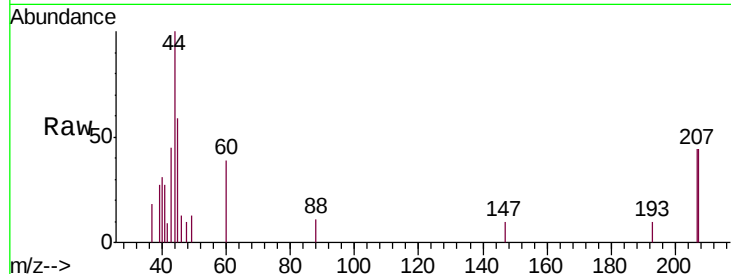




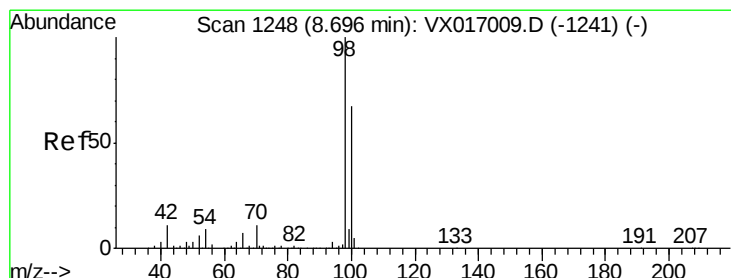
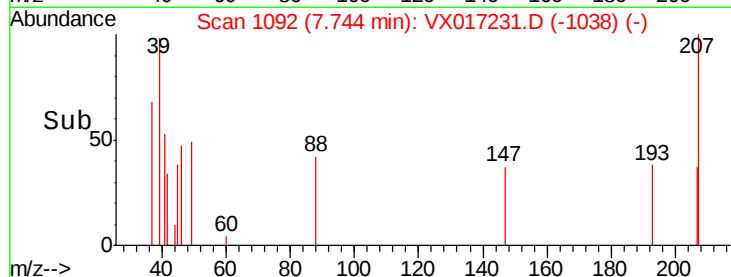
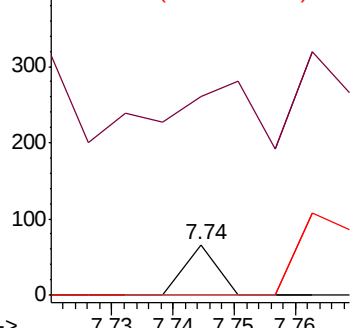
#49
1,4-Dioxane
Concen: 0.343 ug/l
RT: 7.74 min Scan# 1092
Delta R.T. 0.03 min
Lab File: VX017231.D
Acq: 08 Jul 2020 02:52

Instrument :
MSVOA_X
ClientSampleId :
1003-MW-01DL

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 241.7 25.8 38.8#
58 395.8 54.8 82.2#

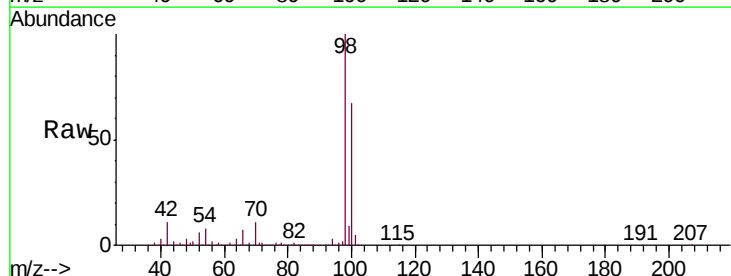


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

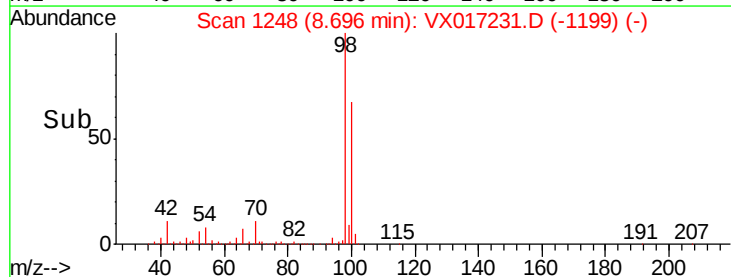
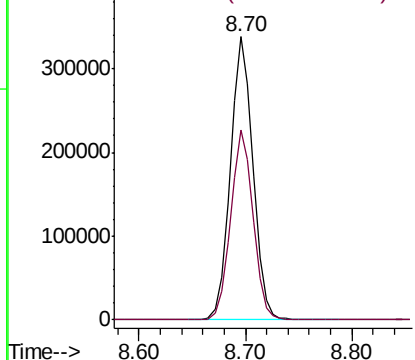


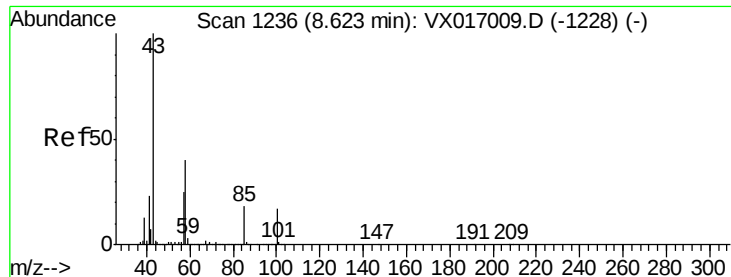
#50
Toluene-d8
Concen: 52.620 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017231.D
Acq: 08 Jul 2020 02:52

Tgt Ion: 98 Resp: 501895
Ion Ratio Lower Upper
98 100
100 66.9 53.8 80.6



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





#51

4-Methyl-2-Pentanone

Concen: 0.268 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

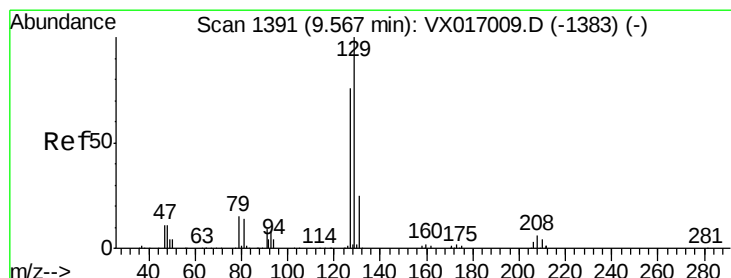
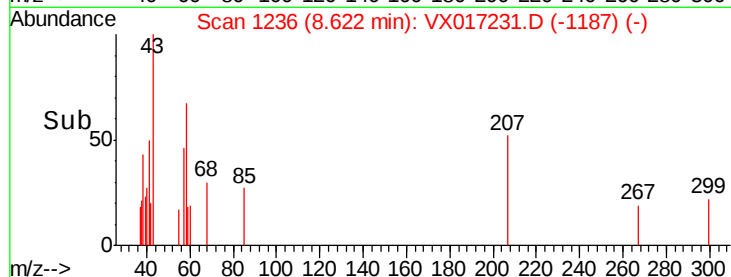
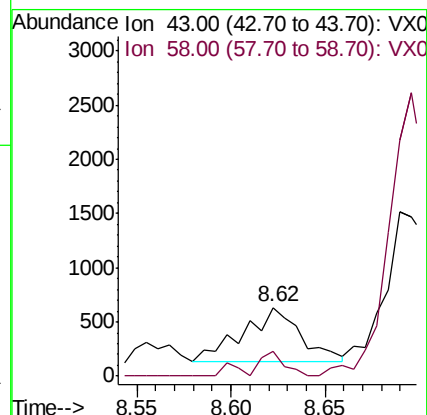
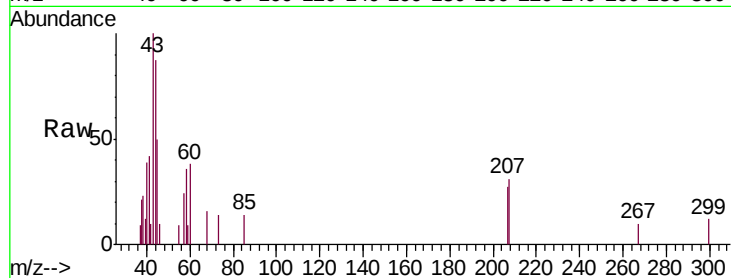
1003-MW-01DL

Tgt Ion: 43 Resp: 1038

Ion Ratio Lower Upper

43 100

58 19.3 31.9 47.9#



#60

Dibromochloromethane

Concen: 28.206 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX017231.D

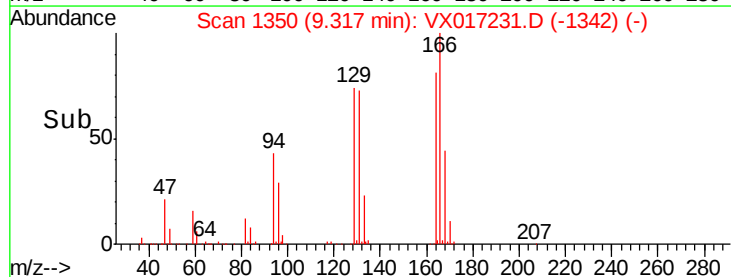
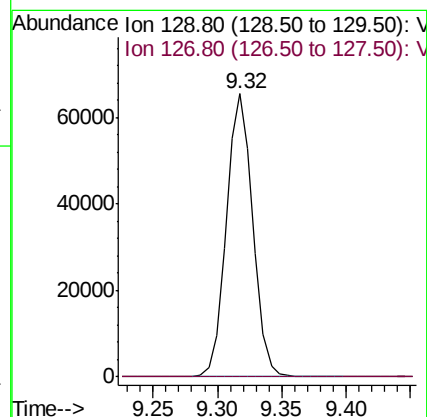
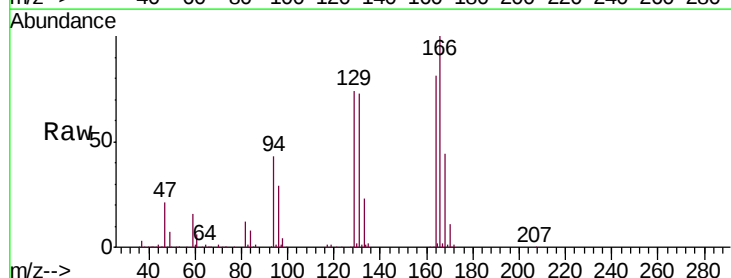
Acq: 08 Jul 2020 02:52

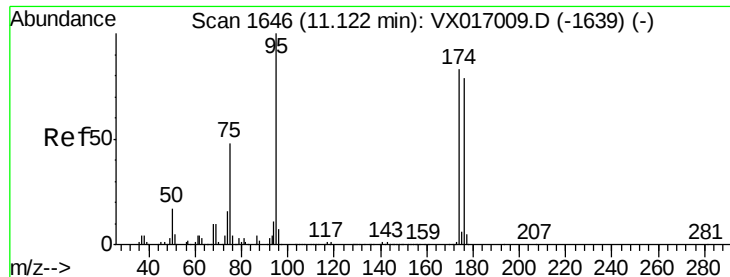
Tgt Ion: 129 Resp: 94625

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#





#62

4-Bromofluorobenzene

Concen: 56.376 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

1003-MW-01DL

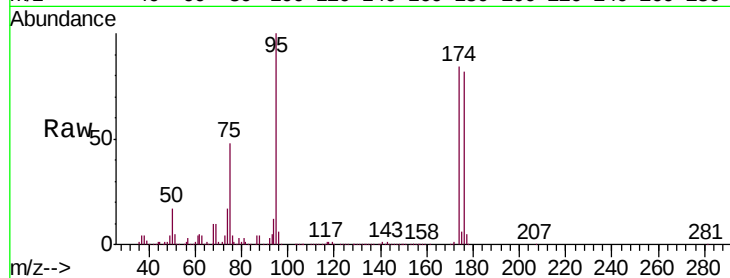
Tgt Ion: 95 Resp: 210201

Ion Ratio Lower Upper

95 100

174 84.5 0.0 164.0

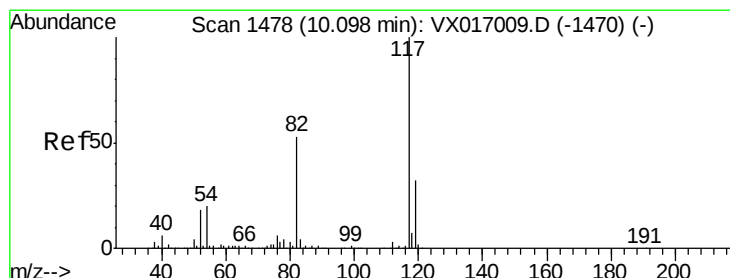
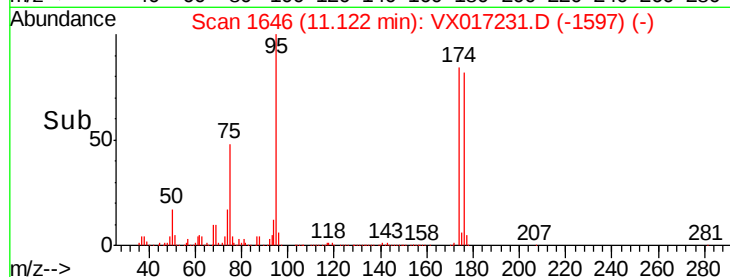
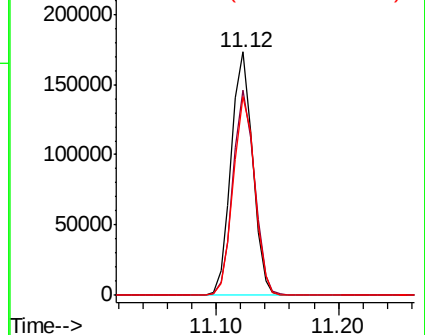
176 81.6 0.0 157.6



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: VX017231.D

Acq: 08 Jul 2020 02:52

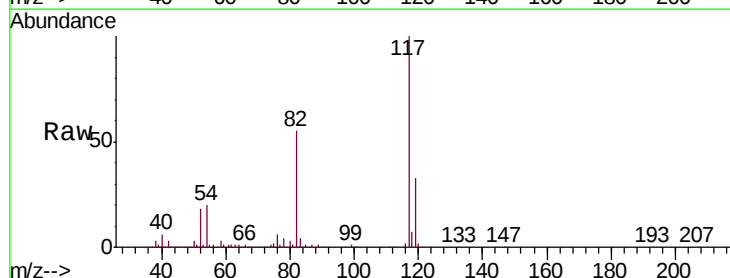
Tgt Ion: 117 Resp: 425891

Ion Ratio Lower Upper

117 100

82 54.8 42.6 63.8

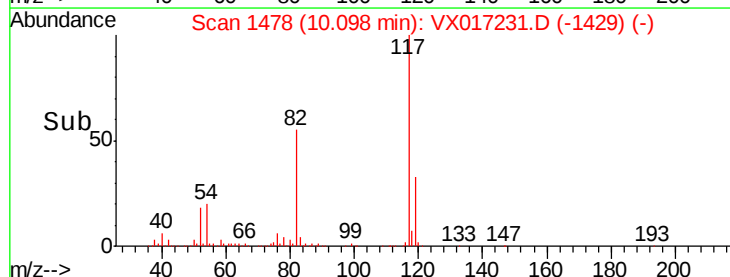
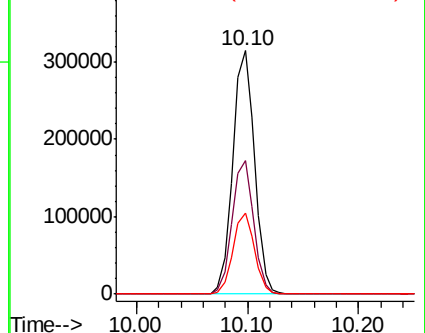
119 33.2 25.4 38.2

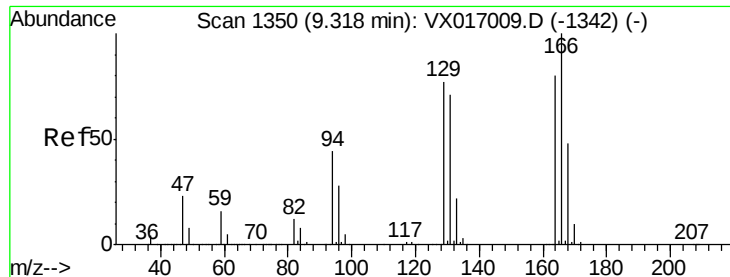


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 29.674 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

1003-MW-01DL

Tgt Ion:164 Resp: 101997

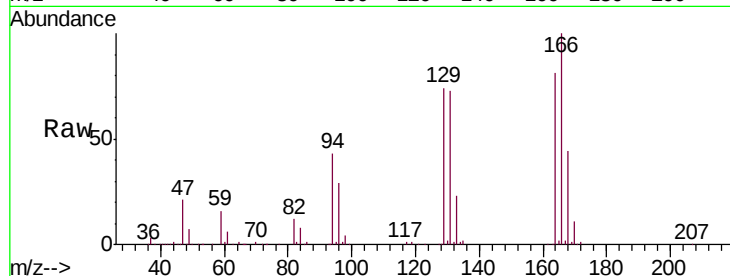
Ion Ratio Lower Upper

164 100

166 123.9 99.4 149.0

129 91.5 76.3 114.5

131 90.0 70.6 105.8

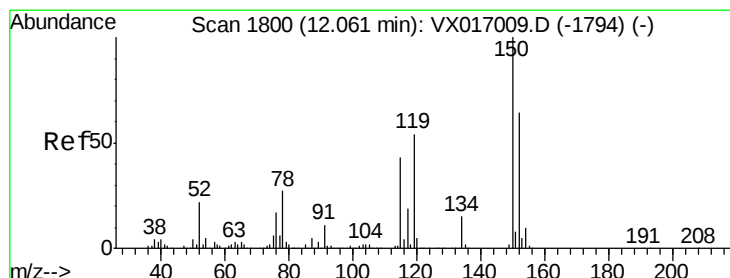
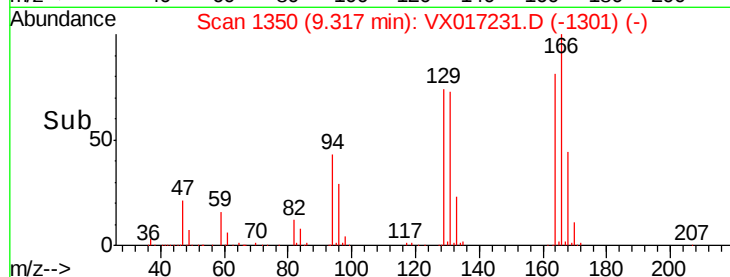
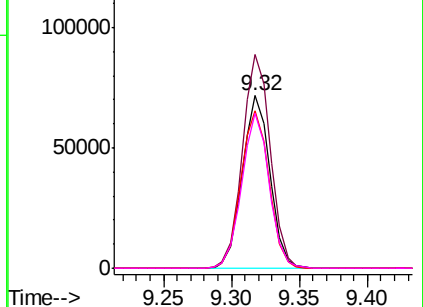


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX017231.D

Acq: 08 Jul 2020 02:52

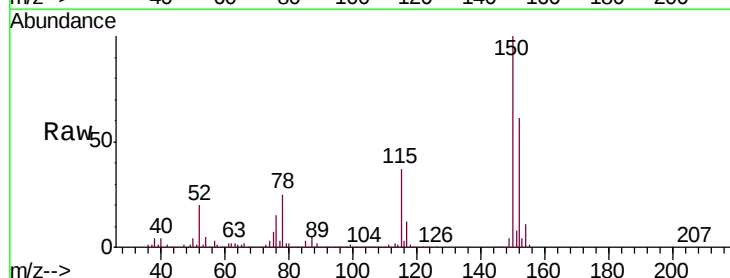
Tgt Ion:152 Resp: 231127

Ion Ratio Lower Upper

152 100

115 57.4 40.9 122.7

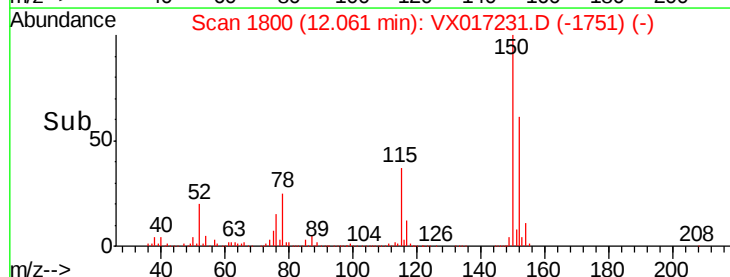
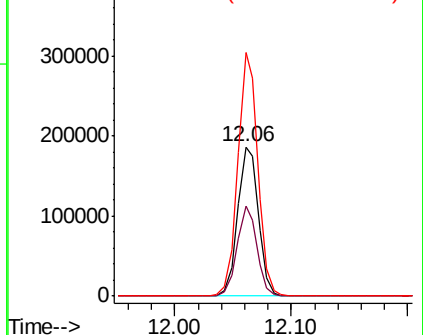
150 157.0 0.0 351.6

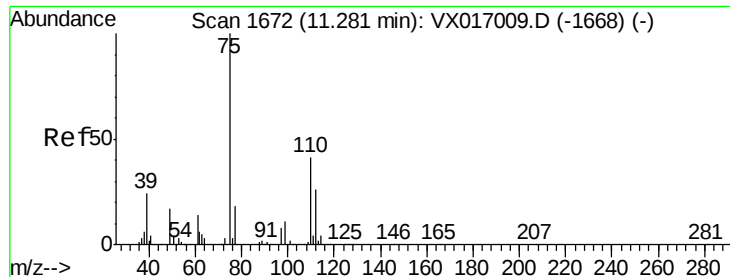


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.489 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

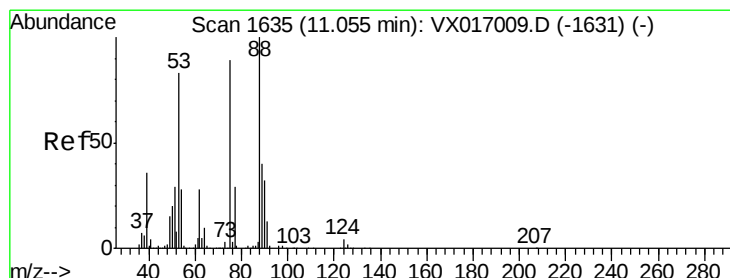
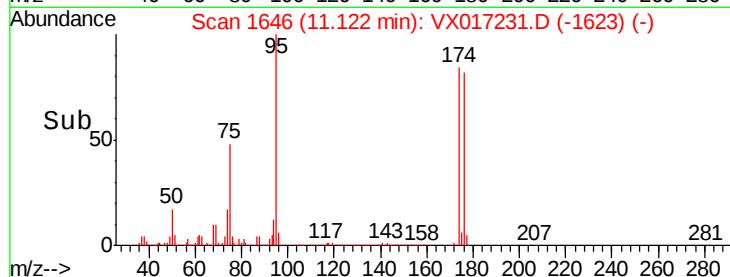
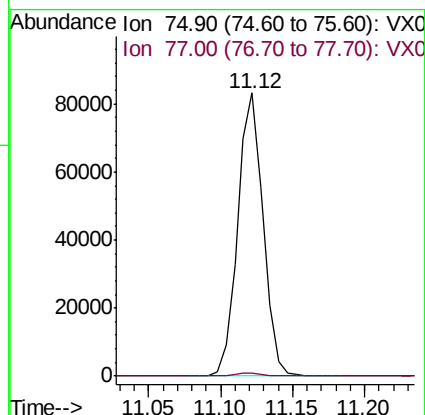
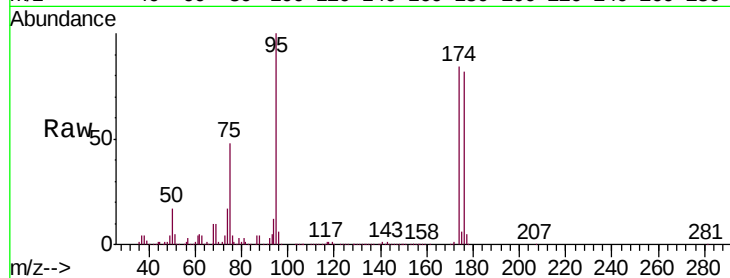
1003-MW-01DL

Tgt Ion: 75 Resp: 102210

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.237 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

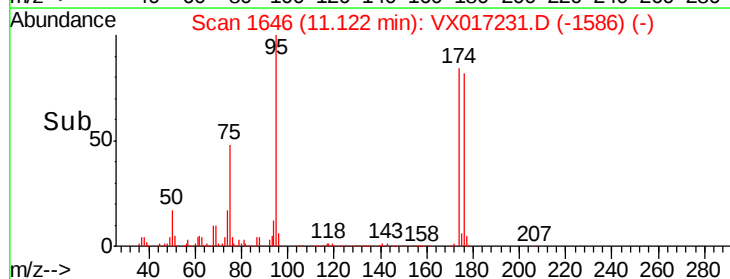
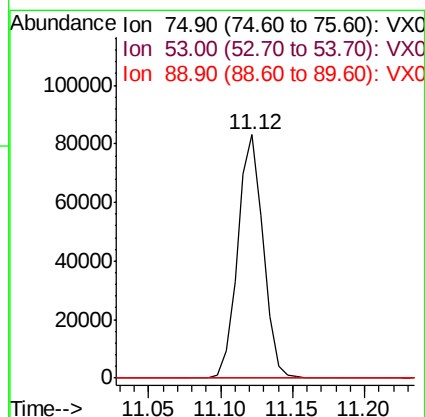
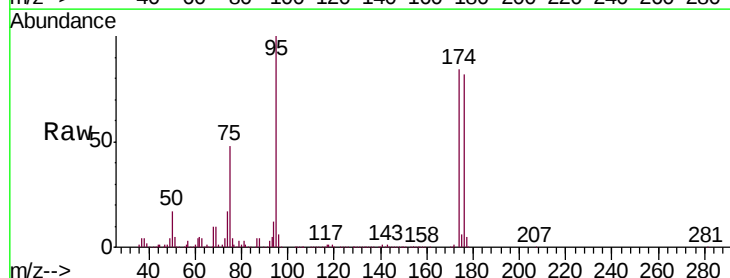
Tgt Ion: 75 Resp: 102210

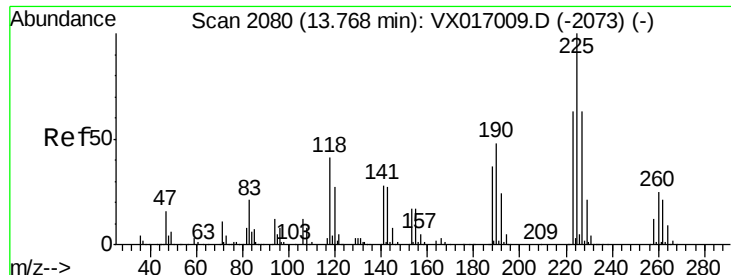
Ion Ratio Lower Upper

75 100

53 0.4 72.4 108.6#

89 0.1 37.0 55.4#





#94

Hexachlorobutadiene

Concen: 0.902 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX017231.D

Acq: 08 Jul 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

1003-MW-01DL

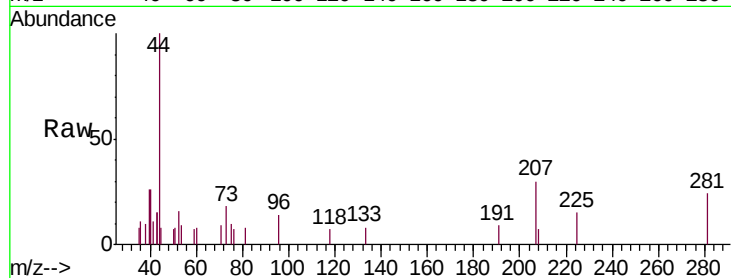
Tgt Ion: 225 Resp: 107

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 18.7 33.1 99.2#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

