

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\
 Data File : VX016188.D
 Acq On : 13 May 2020 18:29
 Operator : JC/SP
 Sample : L2626-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW730-200512

Quant Time: May 14 04:32:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	264487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	444565	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	438524	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	228922	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	164389	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
35) Dibromofluoromethane	5.47	113	130322	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
50) Toluene-d8	8.70	98	546280	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	11.12	95	221546	53.67	ug/l	0.00
Spiked Amount			Recovery	=	107.34%	

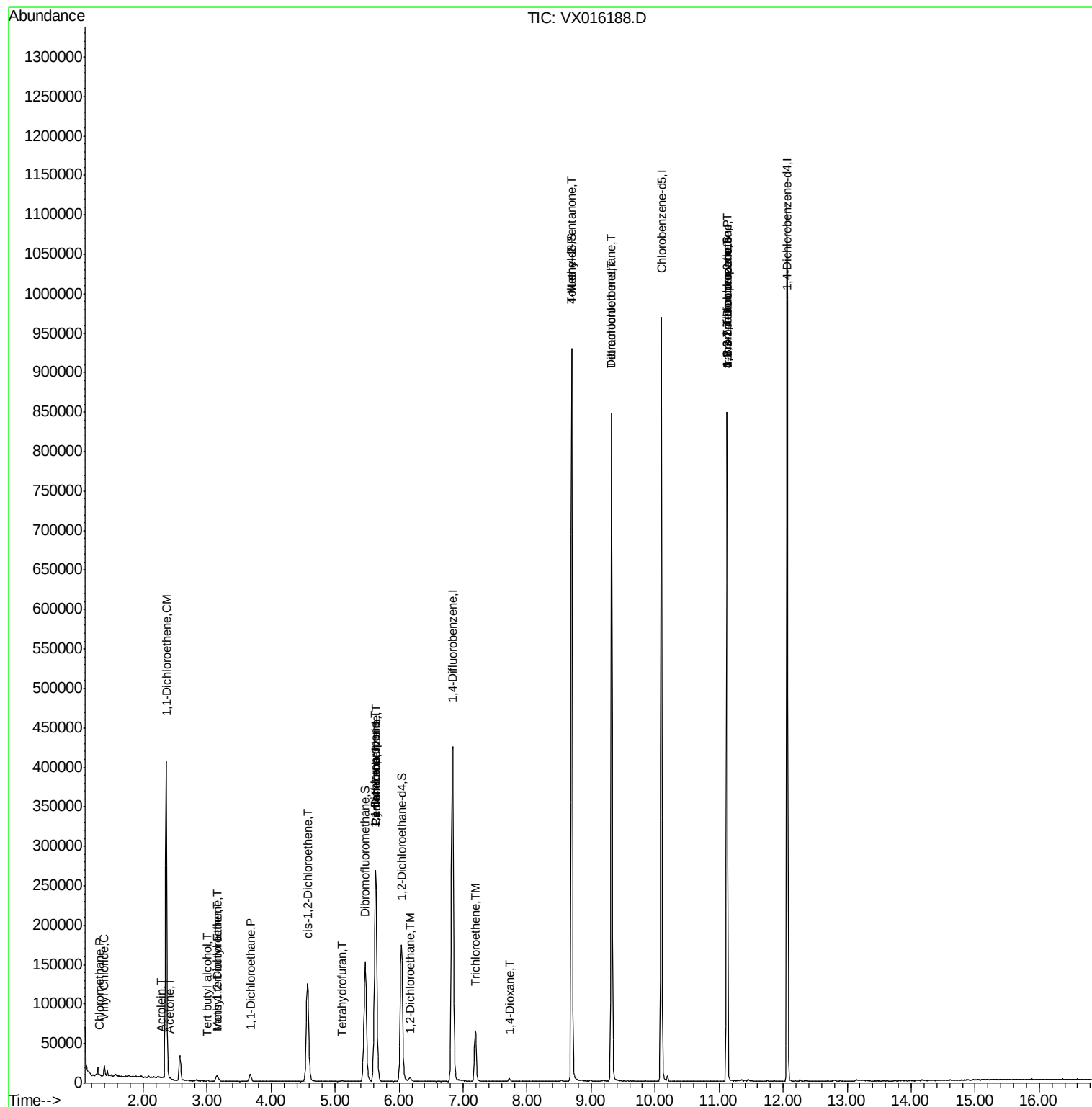
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1058	0.325	ug/l	96
4) Vinyl Chloride	1.39	62	6733	1.941	ug/l	99
11) Tert butyl alcohol	3.01	59	621	0.706	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	140133	50.969	ug/l	98
13) Acrolein	2.28	56	342	0.621	ug/l #	30
16) Acetone	2.42	43	2108	1.357	ug/l	94
17) Carbon Disulfide	2.55	76	932	Below Cal	#	53
19) Methyl tert-butyl Ether	3.17	73	5101	0.538	ug/l	95
21) trans-1,2-Dichloroethene	3.15	96	2420	0.790	ug/l #	76
24) 1,1-Dichloroethane	3.67	63	9713	1.826	ug/l	97
27) cis-1,2-Dichloroethene	4.57	96	80477	24.027	ug/l	89
29) Tetrahydrofuran	5.10	42	459	0.277	ug/l #	86
31) Cyclohexane	5.63	56	5227	1.081	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	19423	4.438	ug/l #	50
38) Carbon Tetrachloride	5.63	117	25182	5.661	ug/l #	14
42) 1,2-Dichloroethane	6.17	62	3749	0.813	ug/l	98
44) Trichloroethene	7.19	130	25301	5.562	ug/l	93
49) 1,4-Dioxane	7.72	88	2613	28.412	ug/l	95
51) 4-Methyl-2-Pentanone	8.70	43	2558	0.517	ug/l #	1
60) Dibromochloromethane	9.32	129	156776	45.333	ug/l #	11
64) Tetrachloroethene	9.32	164	166142	30.862	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.12	83	203	2.114	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	108723	20.929	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	108723	49.876	ug/l #	13

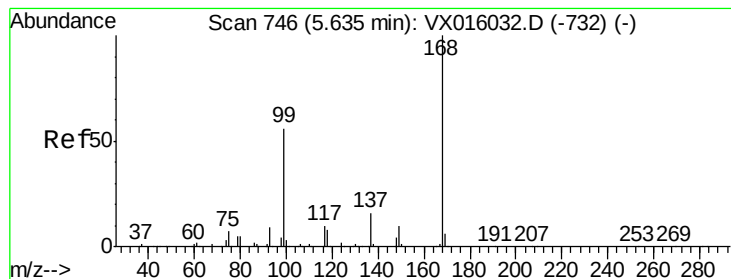
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX051320\
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Quant Time: May 14 04:32:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

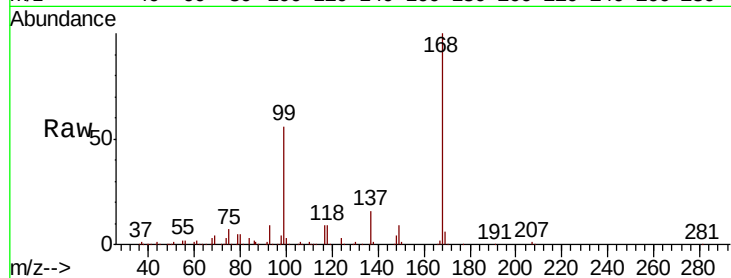
SS052MW730-200512

Tot Ion:168 Resp: 264487

Ion Ratio Lower Upper

168 100

99 56.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

60000

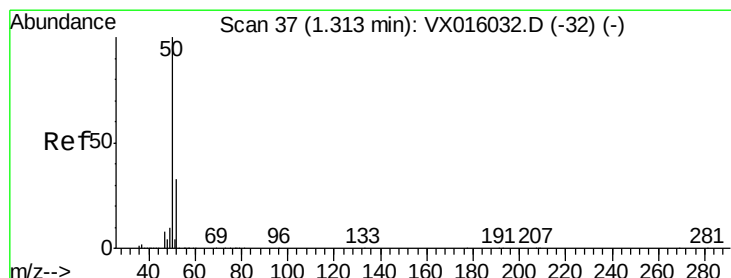
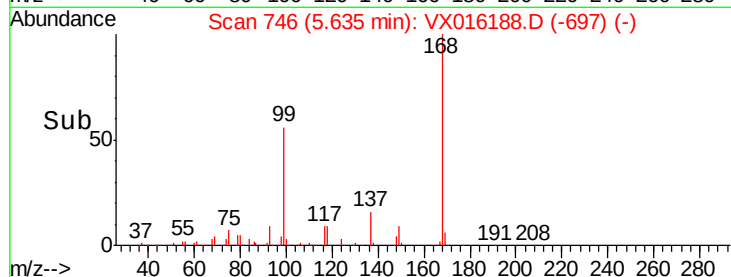
40000

20000

0

Time-->

5.50 5.60 5.70



#3

Chloromethane

Concen: 0.325 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016188.D

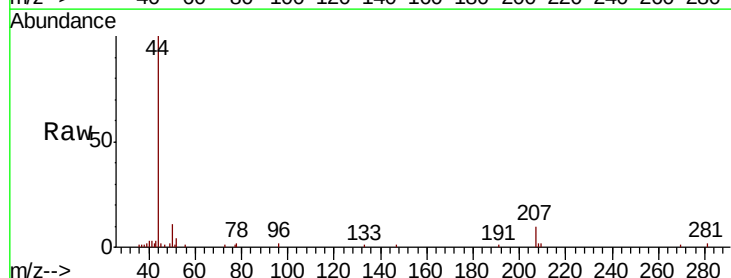
Acq: 13 May 2020 18:29

Tgt Ion: 50 Resp: 1058

Ion Ratio Lower Upper

50 100

52 34.8 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

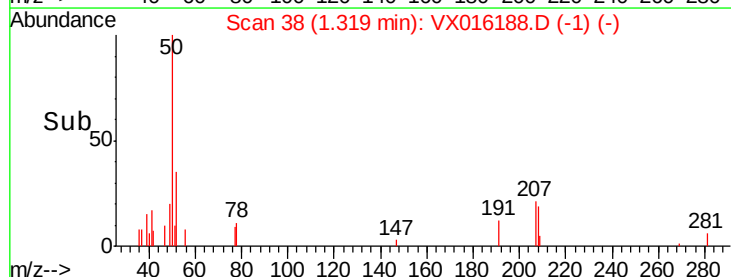
400

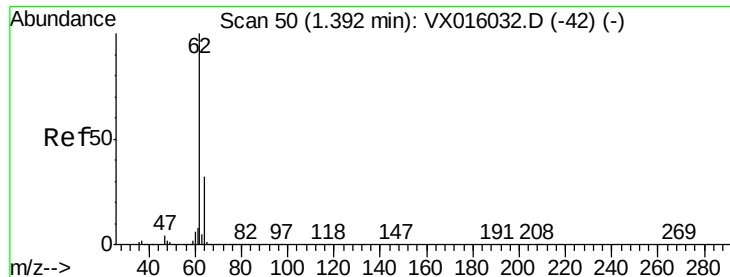
200

0

Time-->

1.25 1.30 1.35





#4

Vinyl Chloride

Concen: 1.941 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

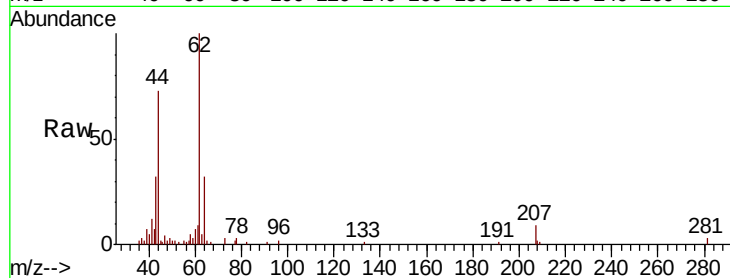
SS052MW730-200512

Tot Ion: 62 Resp: 6733

Ion Ratio Lower Upper

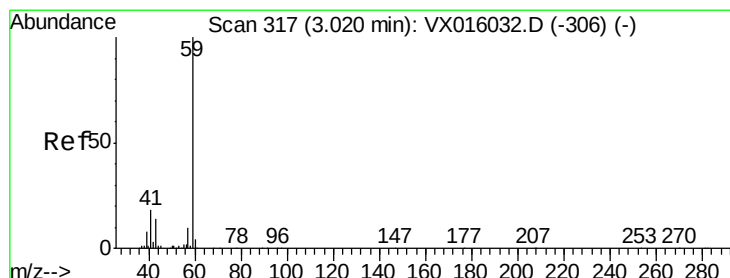
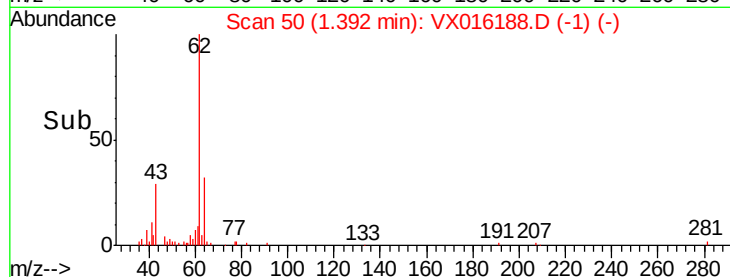
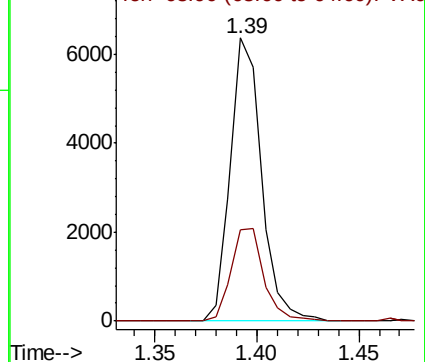
62 100

64 32.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 0.706 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016188.D

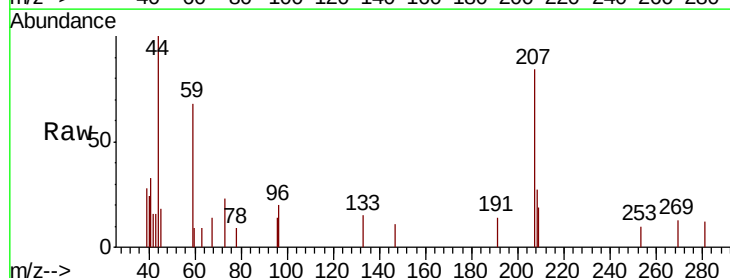
Acq: 13 May 2020 18:29

Tgt Ion: 59 Resp: 621

Ion Ratio Lower Upper

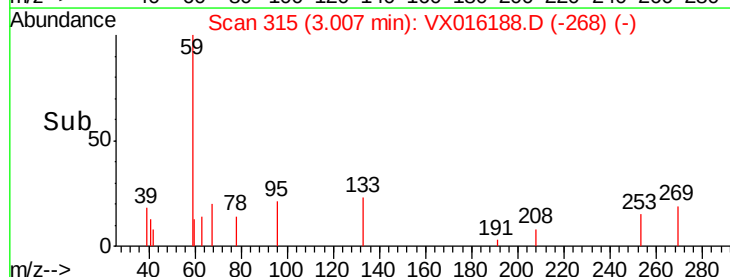
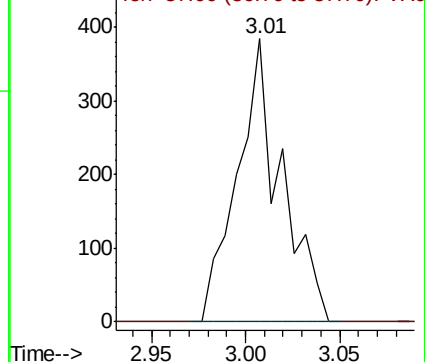
59 100

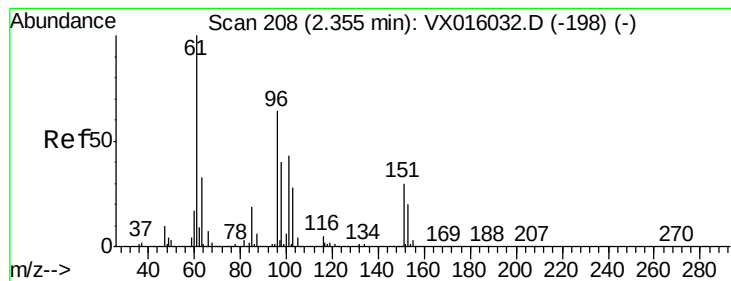
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 50.969 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-200512

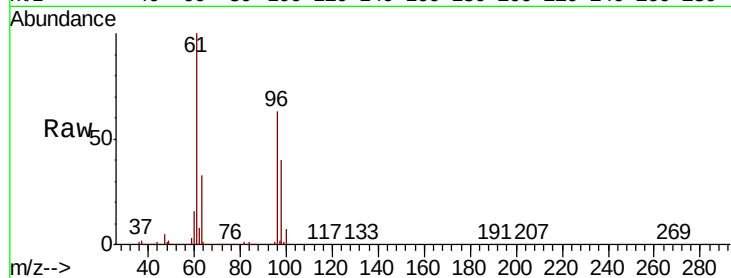
Tot Ion: 96 Resp: 140133

Ion Ratio Lower Upper

96 100

61 158.6 124.8 187.2

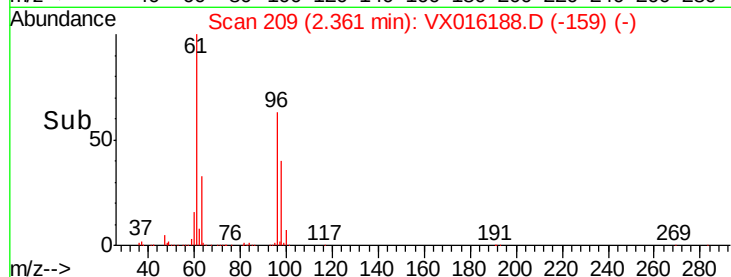
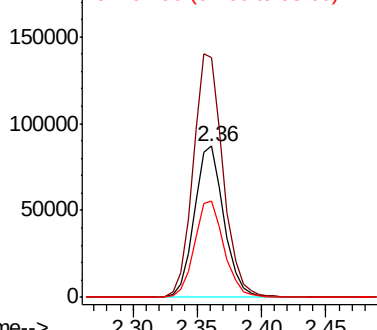
98 63.6 49.7 74.5



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: 0.621 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016188.D

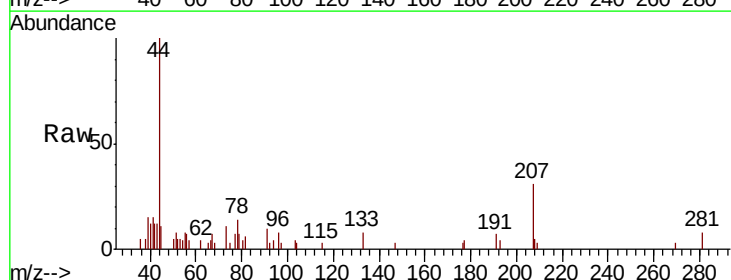
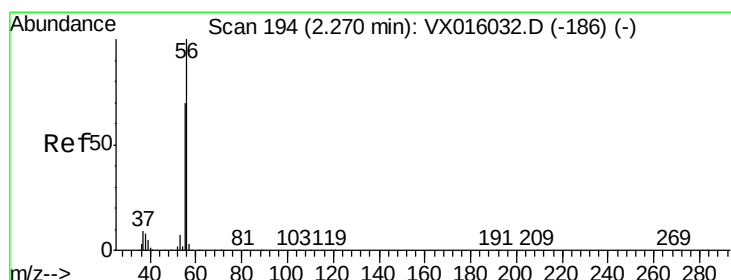
Acq: 13 May 2020 18:29

Tgt Ion: 56 Resp: 342

Ion Ratio Lower Upper

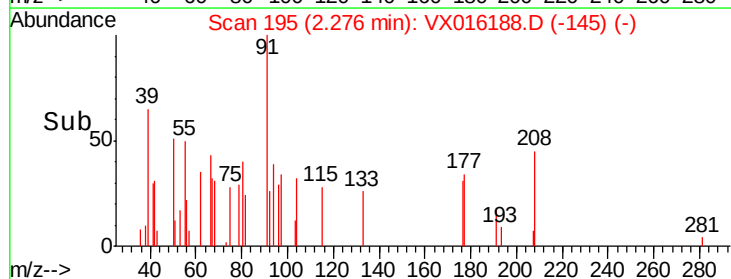
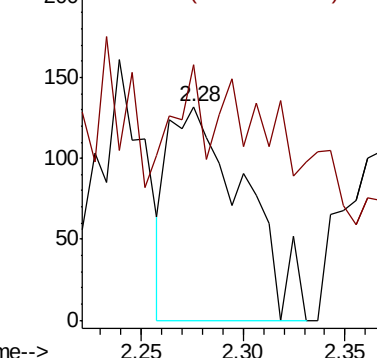
56 100

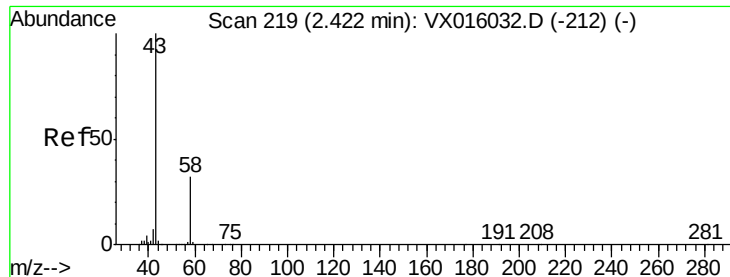
55 13.2 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.357 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

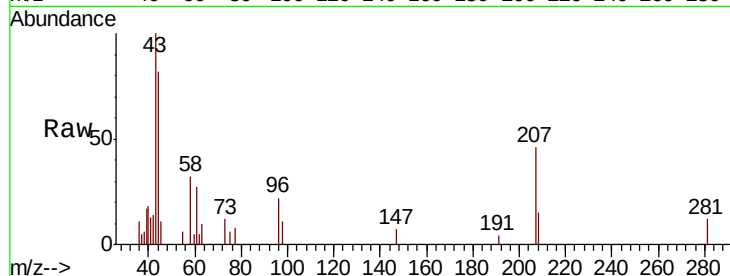
SS052MW730-200512

Tot Ion: 43 Resp: 2108

Ion Ratio Lower Upper

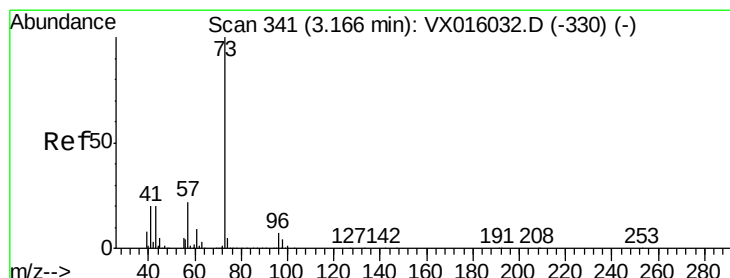
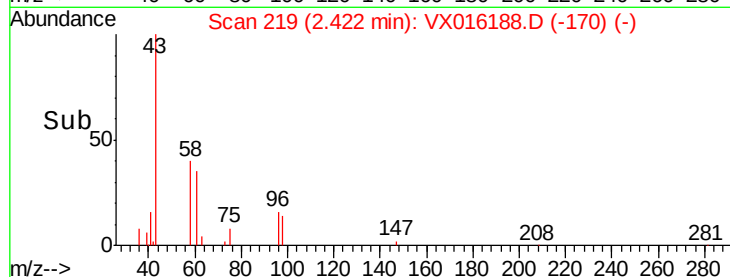
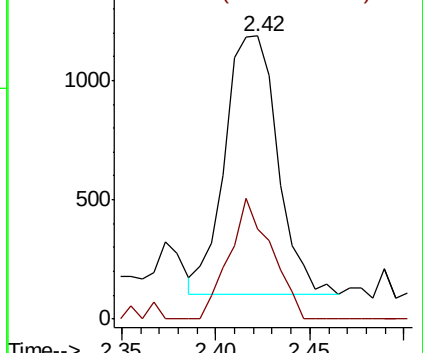
43 100

58 35.0 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#19

Methyl tert-butyl Ether

Concen: 0.538 ug/l

RT: 3.17 min Scan# 341

Delta R.T. -0.00 min

Lab File: VX016188.D

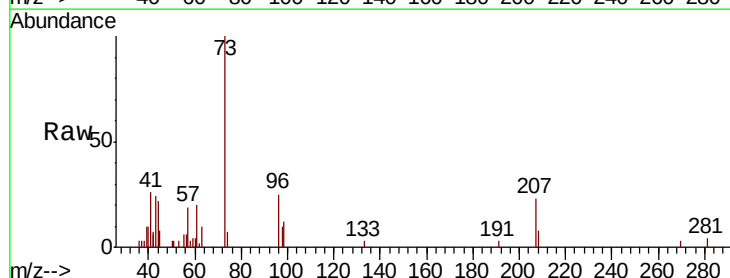
Acq: 13 May 2020 18:29

Tgt Ion: 73 Resp: 5101

Ion Ratio Lower Upper

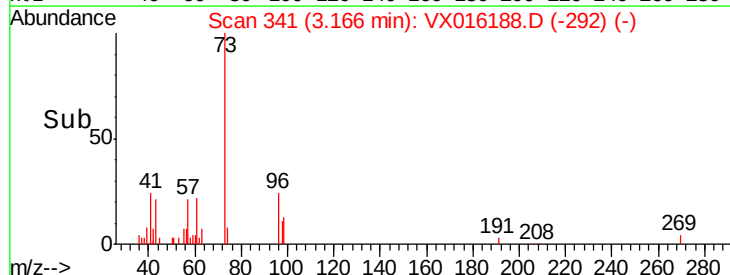
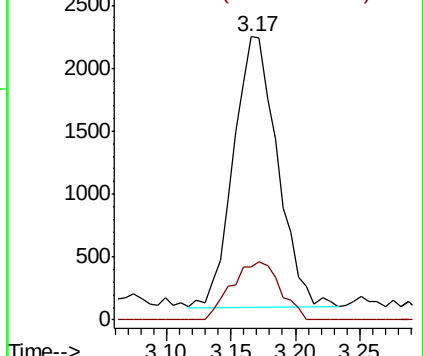
73 100

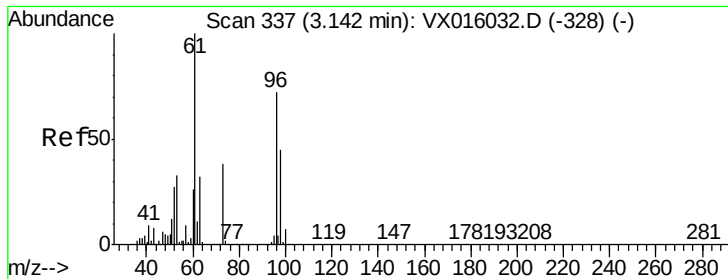
57 19.8 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.790 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-200512

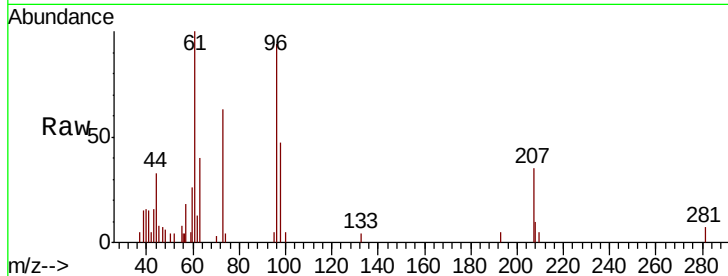
Tot Ion: 96 Resp: 2420

Ion Ratio Lower Upper

96 100

61 104.5 111.2 166.8#

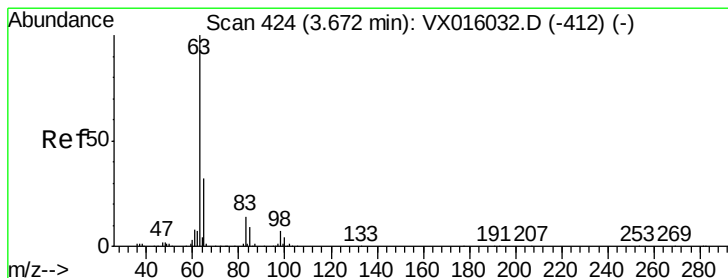
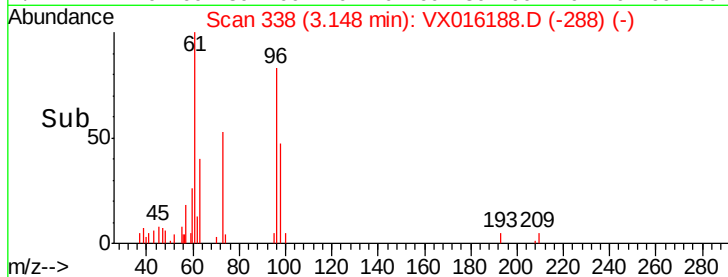
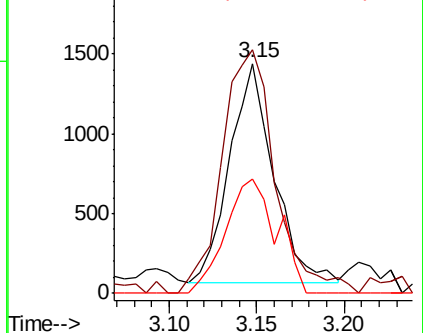
98 51.9 50.2 75.4



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



#24

1,1-Dichloroethane

Concen: 1.826 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

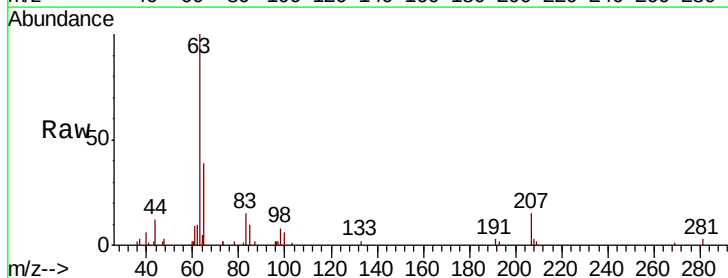
Tgt Ion: 63 Resp: 9713

Ion Ratio Lower Upper

63 100

98 7.7 3.5 10.5

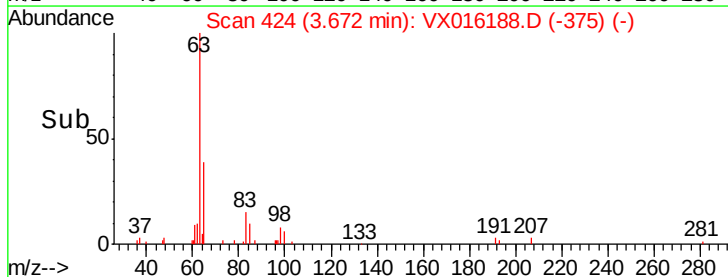
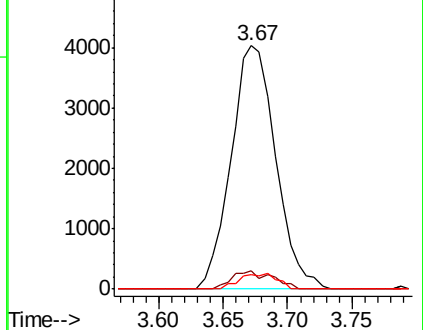
100 5.8 2.1 6.5

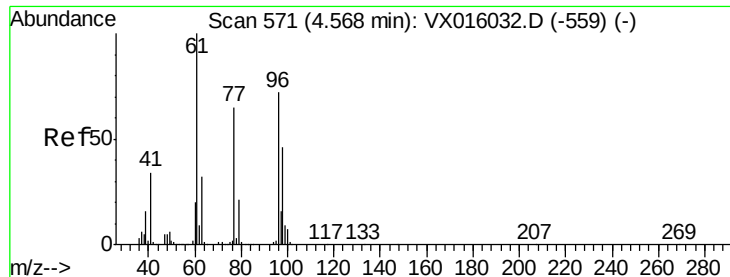


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



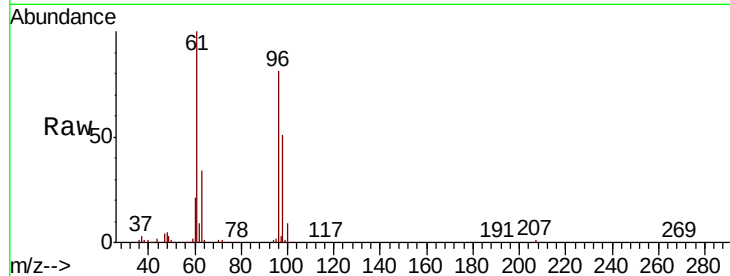


#27

cis-1,2-Dichloroethene
 Concen: 24.027 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016188.D
 Acq: 13 May 2020 18:29

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW730-200512

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.6	0.0	296.2
98	65.0	0.0	129.4

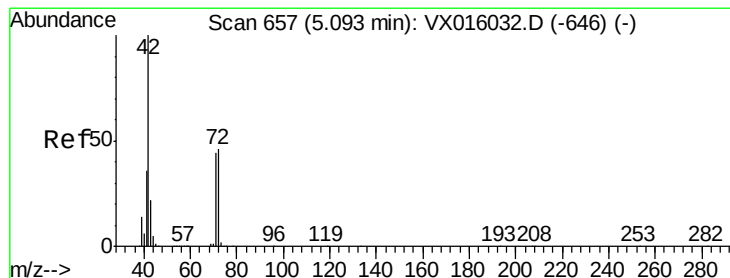
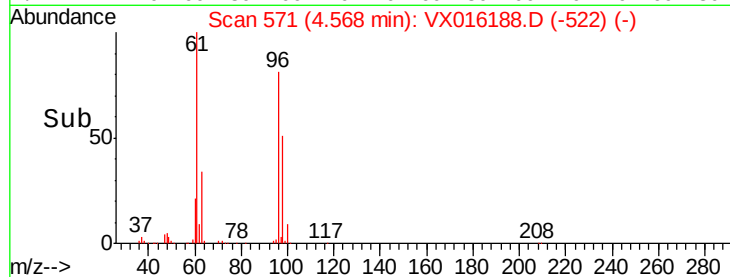
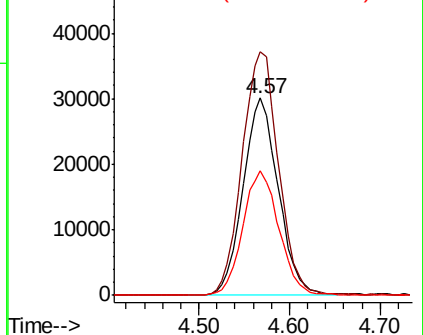


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

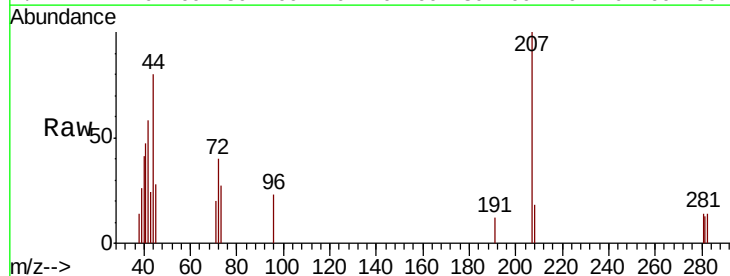
Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran
 Concen: 0.277 ug/l
 RT: 5.10 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VX016188.D
 Acq: 13 May 2020 18:29

Tgt Ion	Ratio	Lower	Upper
42	100		
72	49.0	37.1	55.7
71	59.3	34.5	51.7#

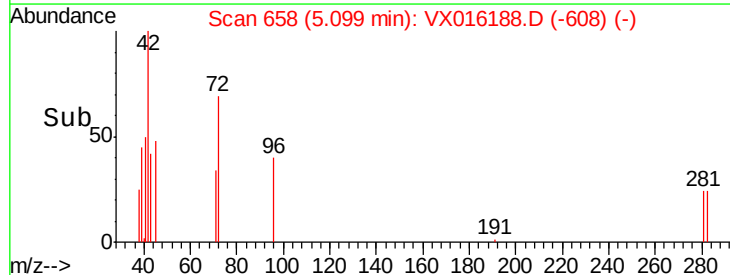
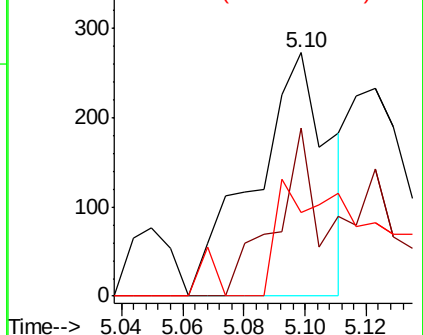


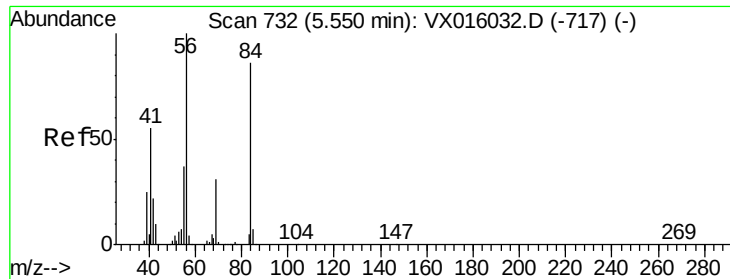
Abundance

Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

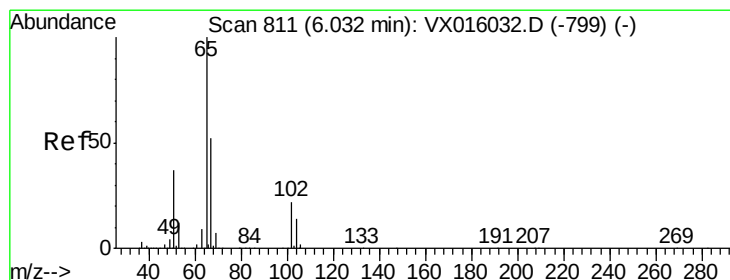
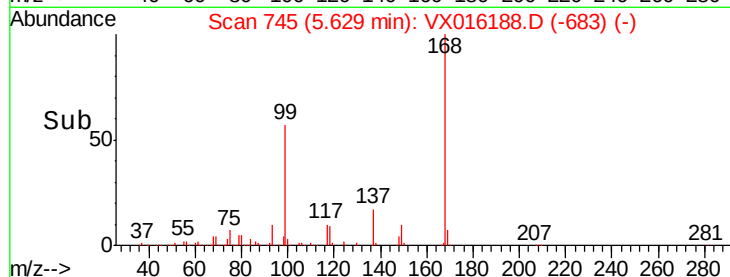
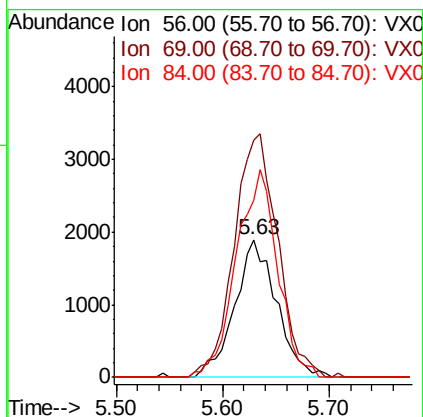
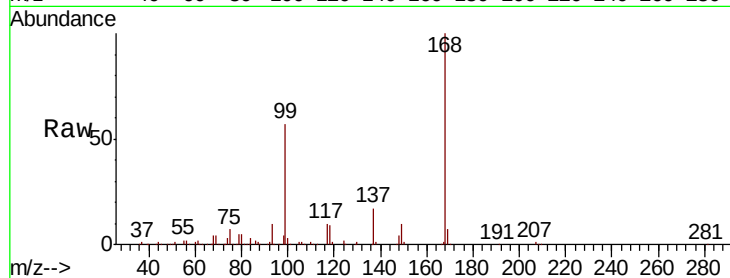




#31
Cyclohexane
Concen: 1.081 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016188.D
Acq: 13 May 2020 18:29

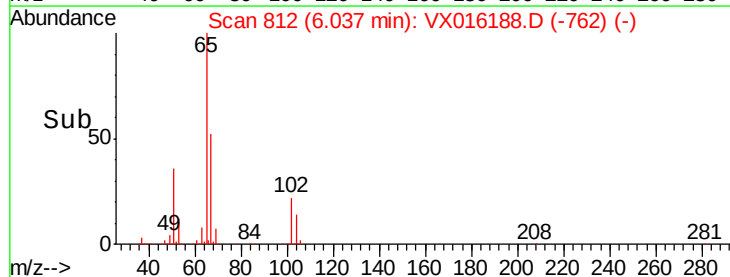
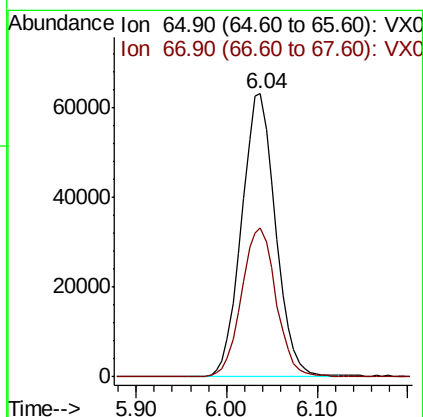
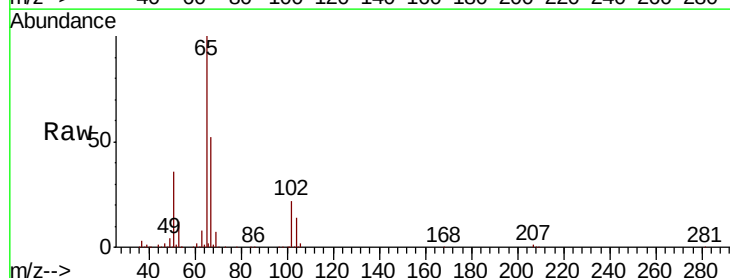
Instrument :
MSVOA_X
ClientSampleId :
SS052MW730-200512

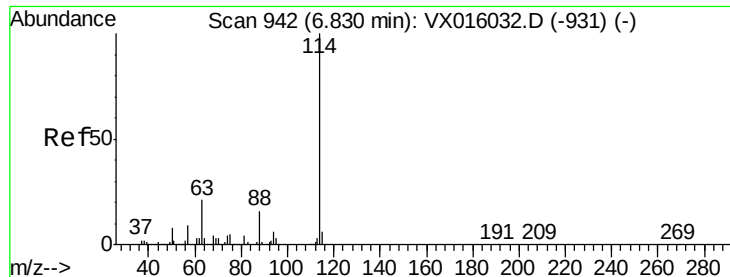
Tot Ion: 56 Resp: 5227
Ion Ratio Lower Upper
56 100
69 172.8 25.0 37.6#
84 128.9 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 47.233 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016188.D
Acq: 13 May 2020 18:29

Tgt Ion: 65 Resp: 164389
Ion Ratio Lower Upper
65 100
67 53.3 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-200512

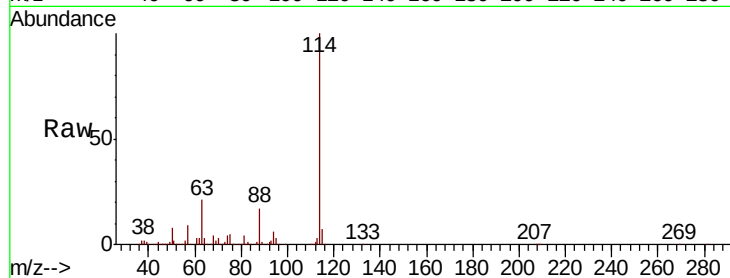
Tot Ion:114 Resp: 444565

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.8

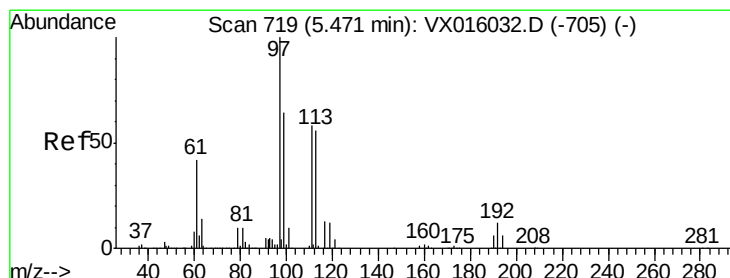
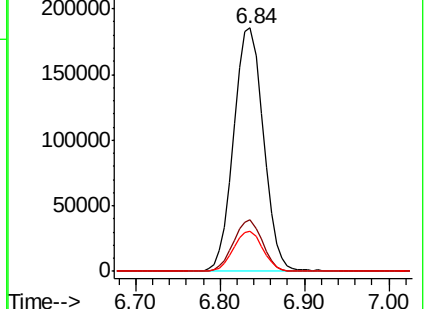
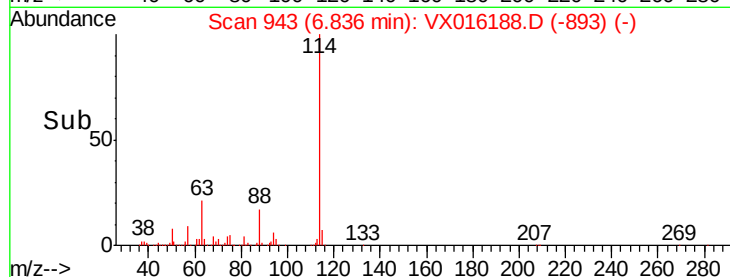
88 16.5 0.0 31.4



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: 46.271 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

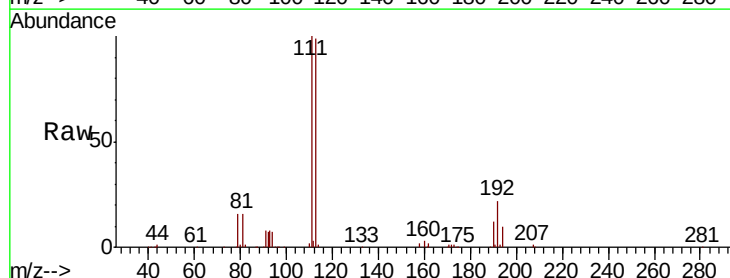
Tgt Ion:113 Resp: 130322

Ion Ratio Lower Upper

113 100

111 102.0 81.6 122.4

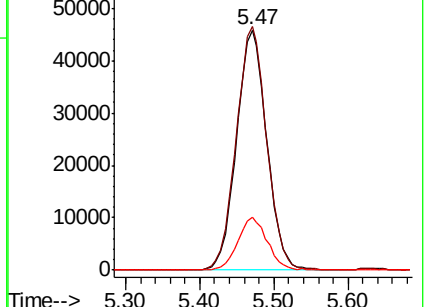
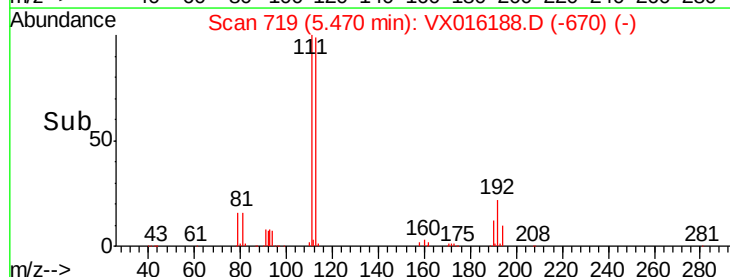
192 21.6 17.0 25.4

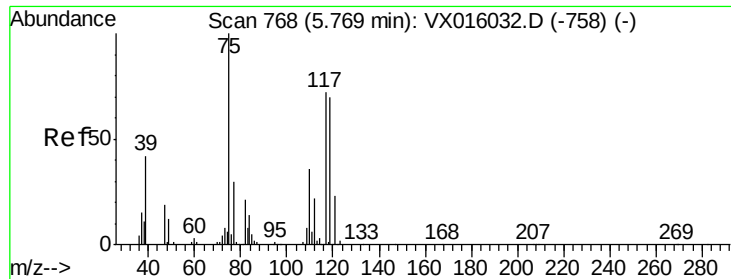


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.438 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-200512

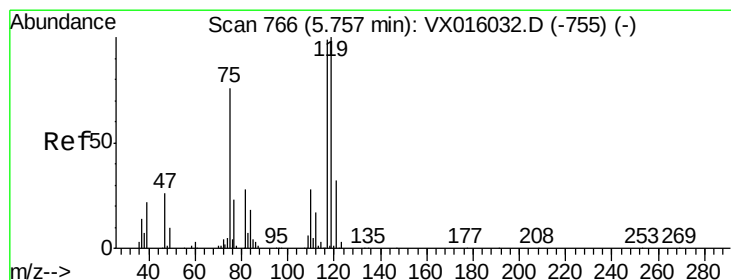
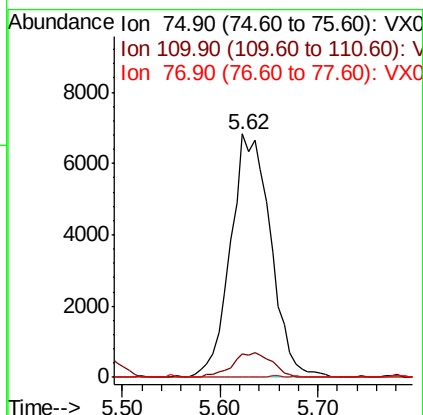
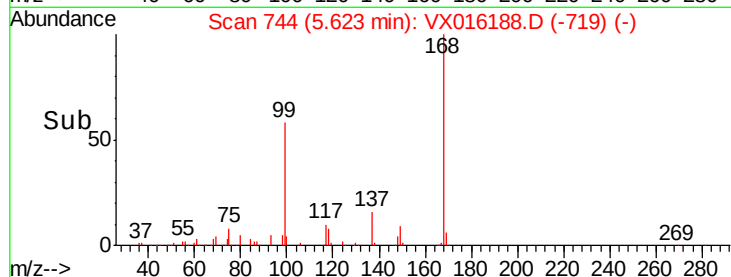
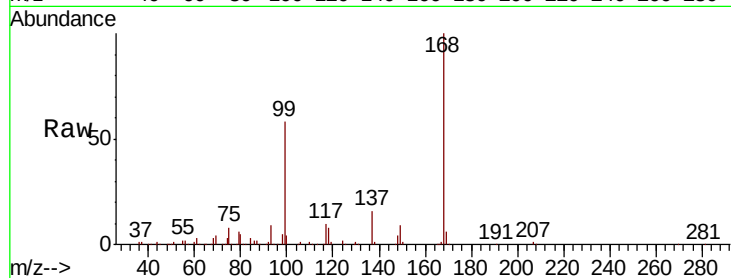
Tot Ion: 75 Resp: 19423

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.1#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.661 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

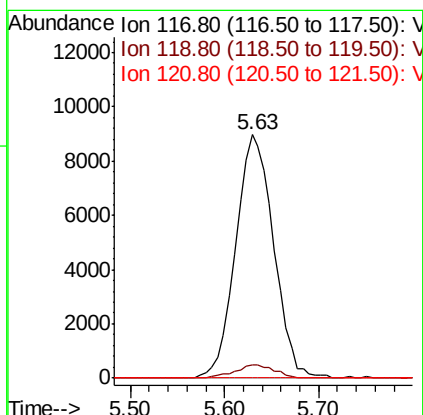
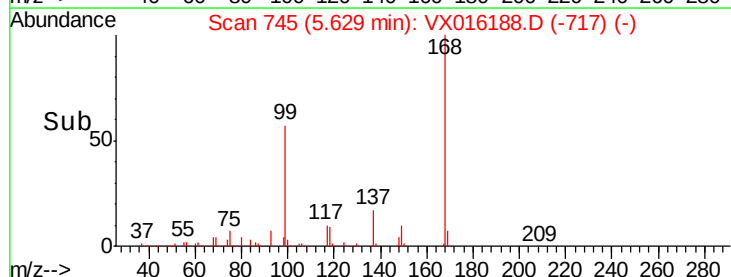
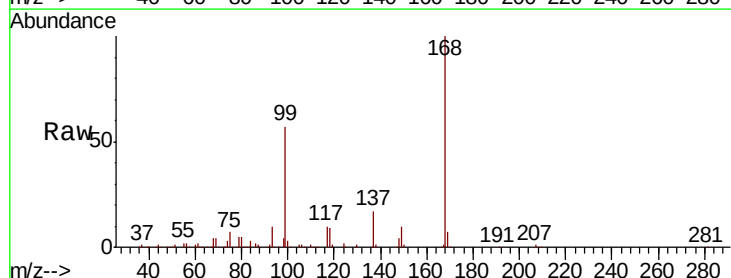
Tgt Ion: 117 Resp: 25182

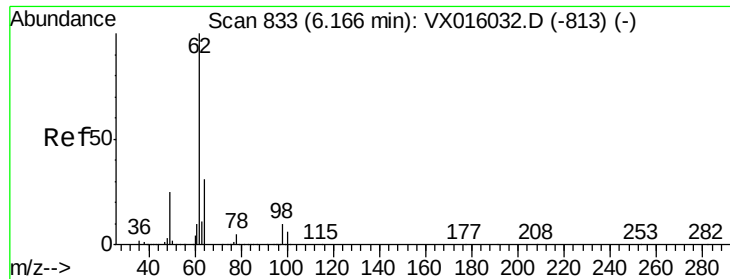
Ion Ratio Lower Upper

117 100

119 5.4 80.3 120.5#

121 0.0 25.7 38.5#





#42

1,2-Dichloroethane

Concen: 0.813 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

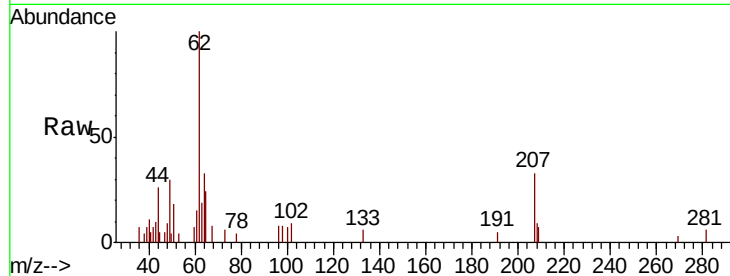
SS052MW730-200512

Tot Ion: 62 Resp: 3749

Ion Ratio Lower Upper

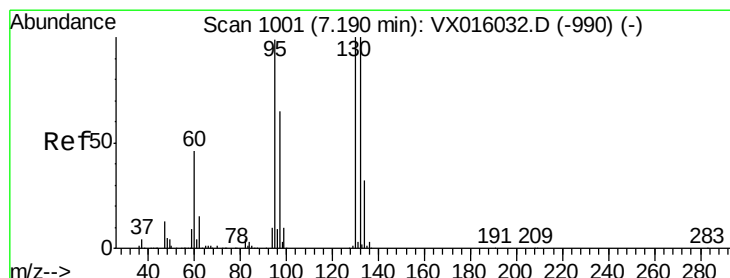
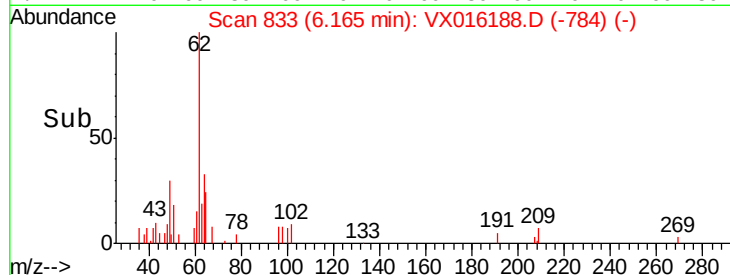
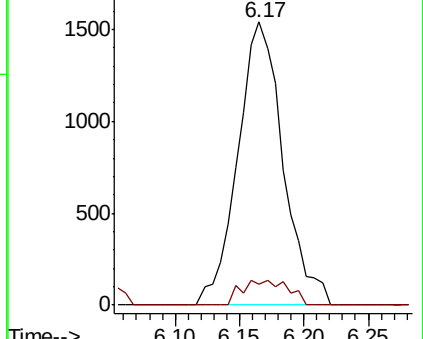
62 100

98 9.1 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 5.562 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016188.D

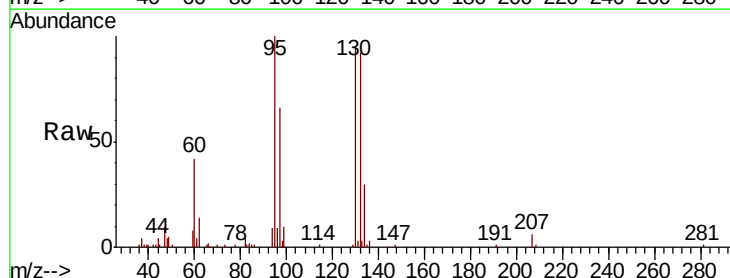
Acq: 13 May 2020 18:29

Tgt Ion:130 Resp: 25301

Ion Ratio Lower Upper

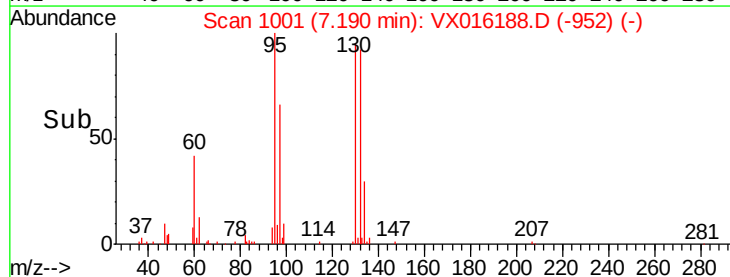
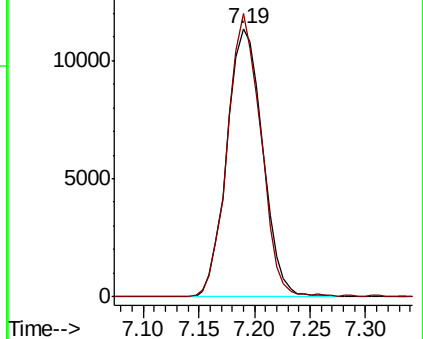
130 100

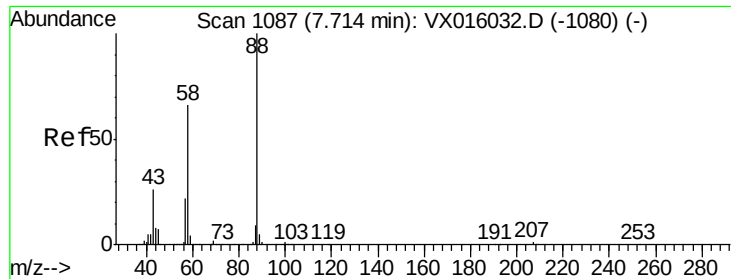
95 105.5 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 28.412 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-200512

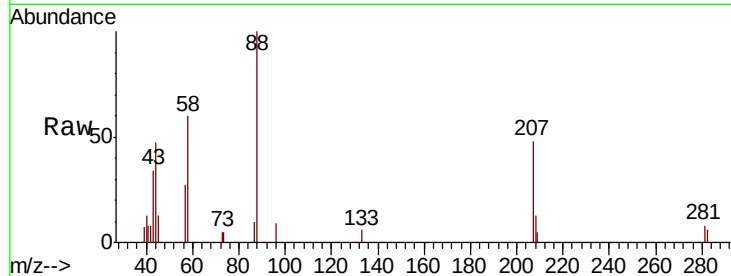
Tot Ion: 88 Resp: 2613

Ion Ratio Lower Upper

88 100

43 33.4 25.3 37.9

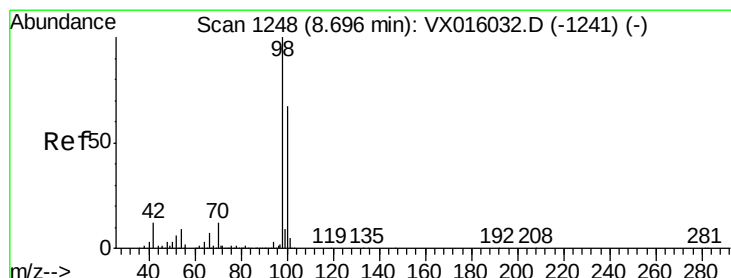
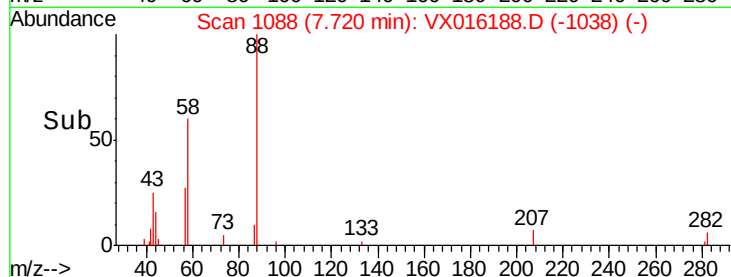
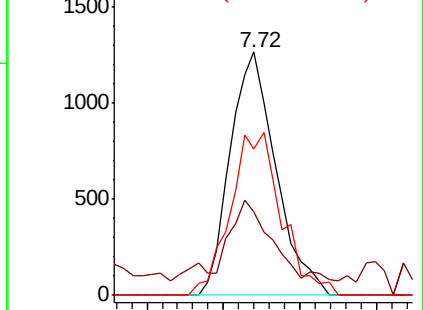
58 74.7 55.9 83.9



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: 50.338 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016188.D

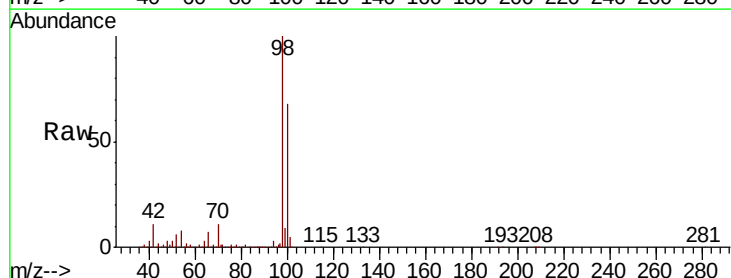
Acq: 13 May 2020 18:29

Tgt Ion: 98 Resp: 546280

Ion Ratio Lower Upper

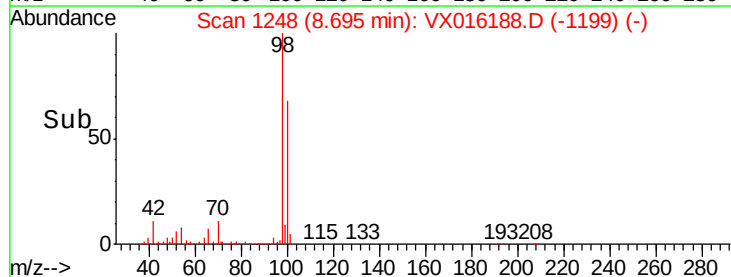
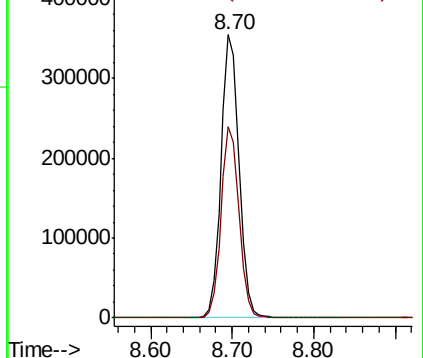
98 100

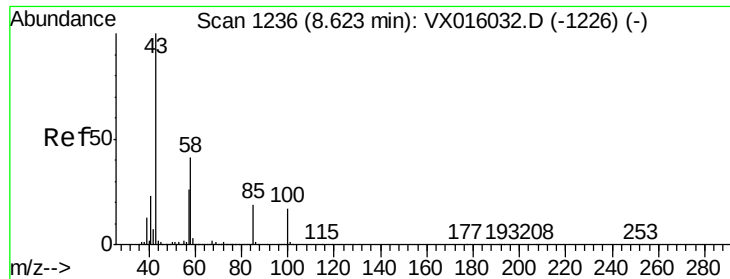
100 67.4 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

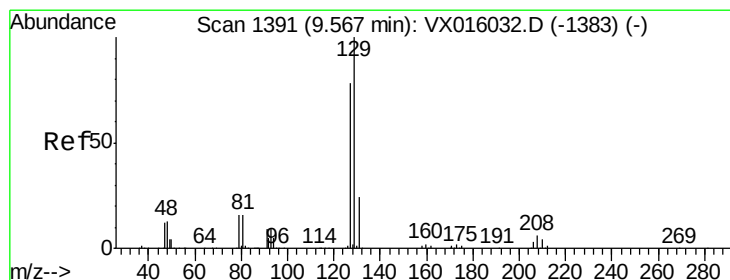
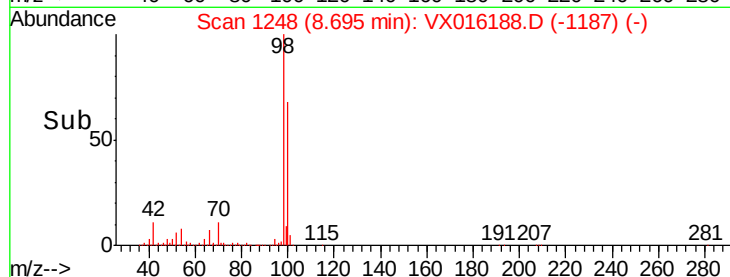
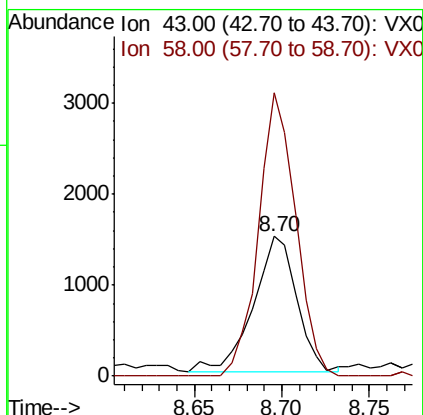
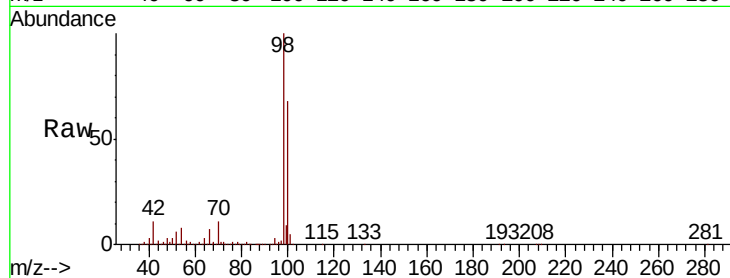




#51
4-Methyl-2-Pentanone
Concen: 0.517 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.07 min
Lab File: VX016188.D
Acq: 13 May 2020 18:29

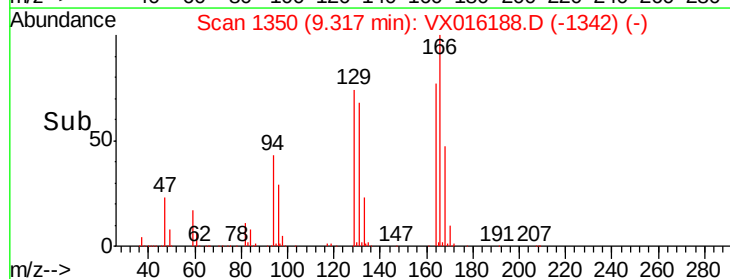
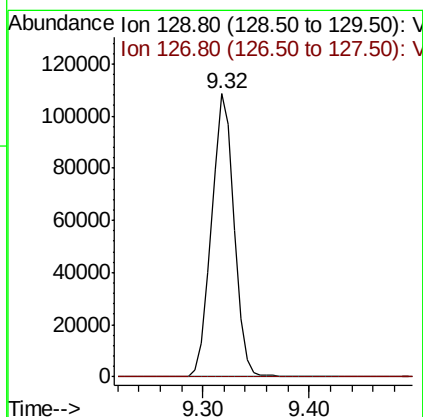
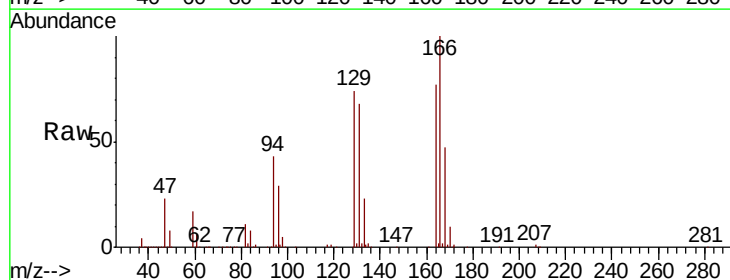
Instrument :
MSVOA_X
ClientSampleId :
SS052MW730-200512

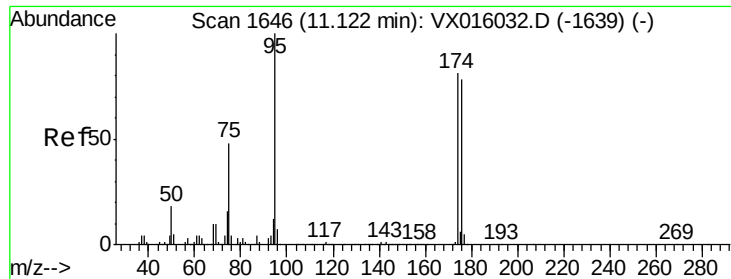
Tot Ion: 43 Resp: 2558
Ion Ratio Lower Upper
43 100
58 179.9 33.0 49.4#



#60
Dibromochloromethane
Concen: 45.333 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.25 min
Lab File: VX016188.D
Acq: 13 May 2020 18:29

Tgt Ion: 129 Resp: 156776
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#

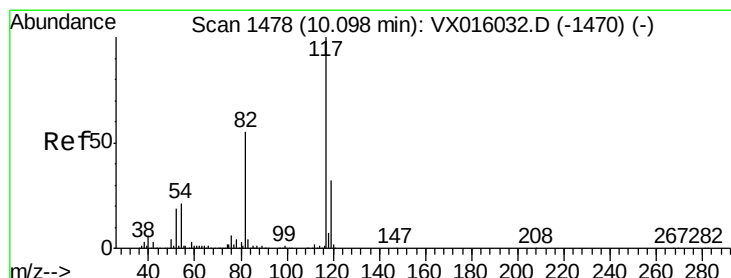
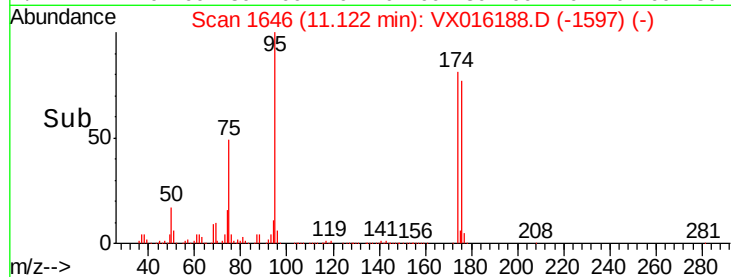
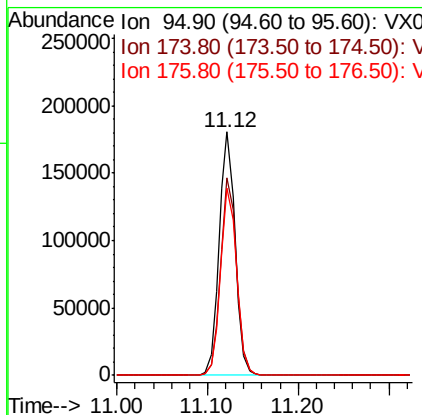
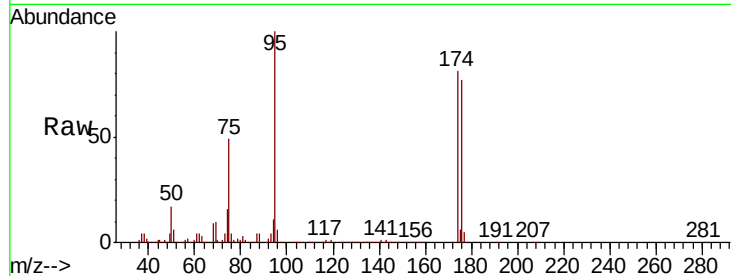




#62
4-Bromofluorobenzene
Concen: 53.673 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016188.D
Acq: 13 May 2020 18:29

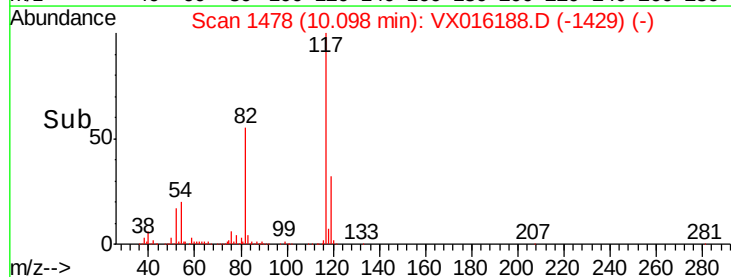
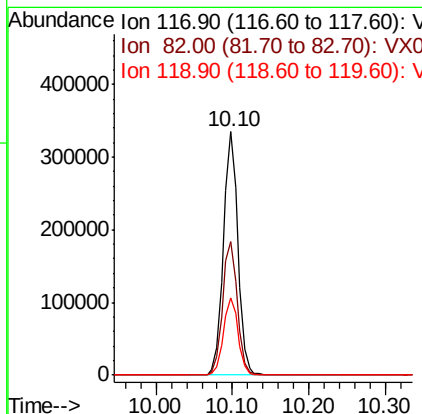
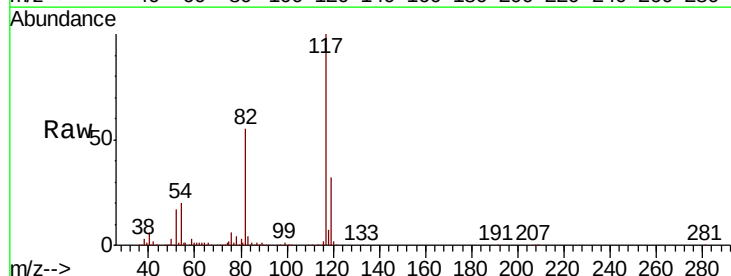
Instrument :
MSVOA_X
ClientSampleId :
SS052MW730-200512

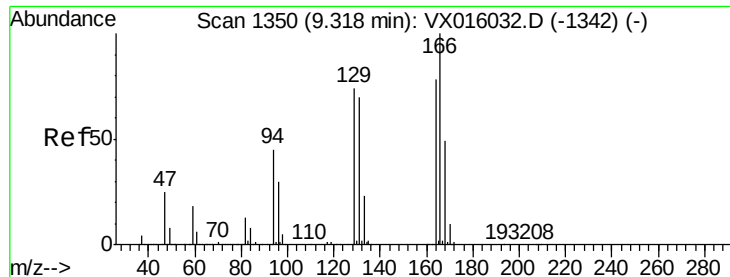
Tot Ion: 95 Resp: 221546
Ion Ratio Lower Upper
95 100
174 81.2 0.0 159.4
176 78.0 0.0 157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016188.D
Acq: 13 May 2020 18:29

Tgt Ion: 117 Resp: 438524
Ion Ratio Lower Upper
117 100
82 54.8 44.4 66.6
119 31.7 25.5 38.3





#64

Tetrachloroethene

Concen: 30.862 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-200512

Tot Ion:164 Resp: 166142

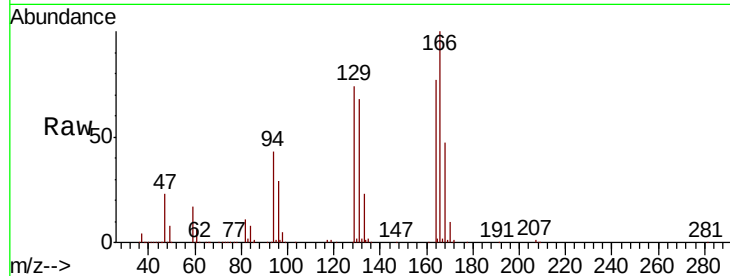
Ion Ratio Lower Upper

164 100

166 129.2 102.9 154.3

129 95.3 76.1 114.1

131 88.5 71.9 107.9

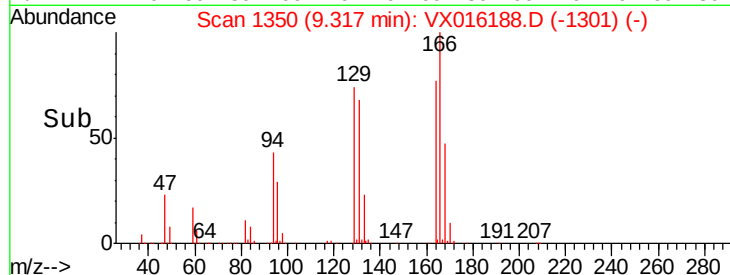


Abundance Ion 163.80 (163.50 to 164.50): V

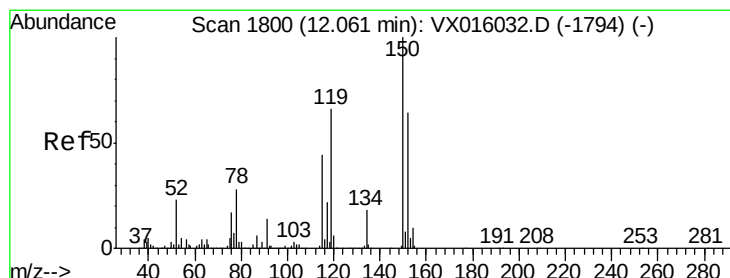
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

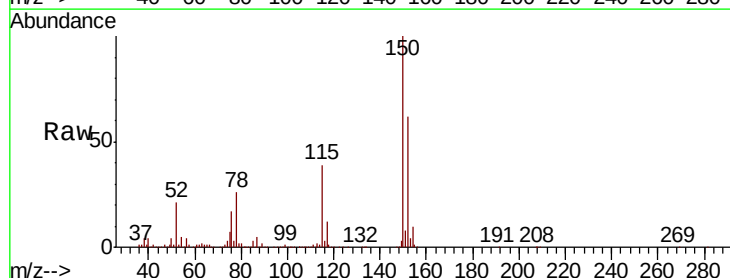
Tgt Ion:152 Resp: 228922

Ion Ratio Lower Upper

152 100

115 58.9 41.3 124.1

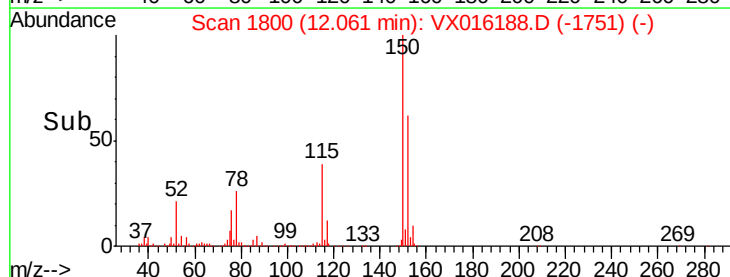
150 157.5 0.0 352.2



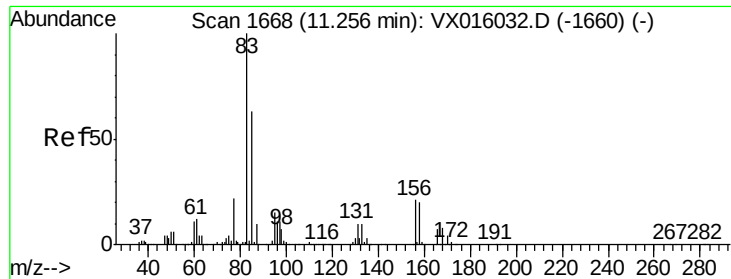
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 2.114 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016188.D

Acq: 13 May 2020 18:29

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-200512

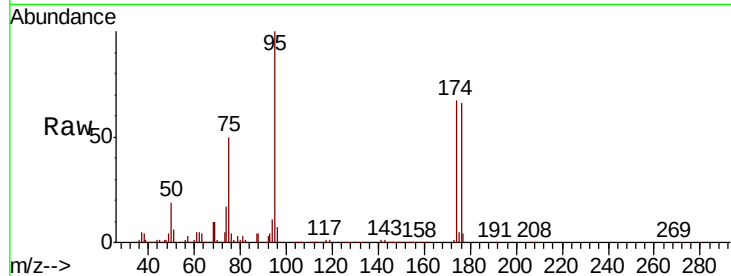
Tot Ion: 83 Resp: 203

Ion Ratio Lower Upper

83 100

131 165.5 5.1 15.4#

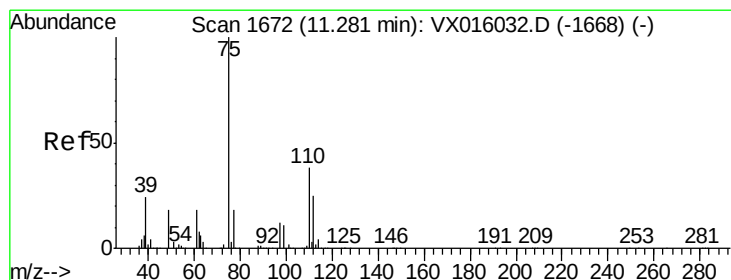
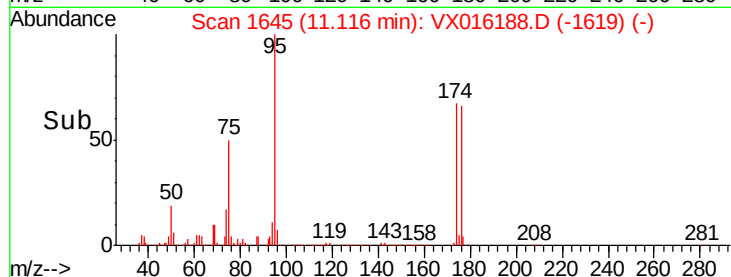
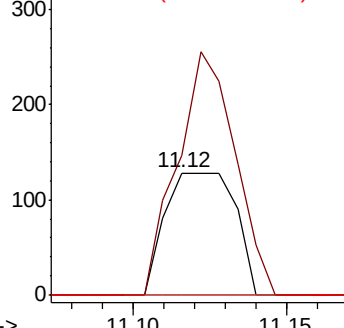
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 20.929 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016188.D

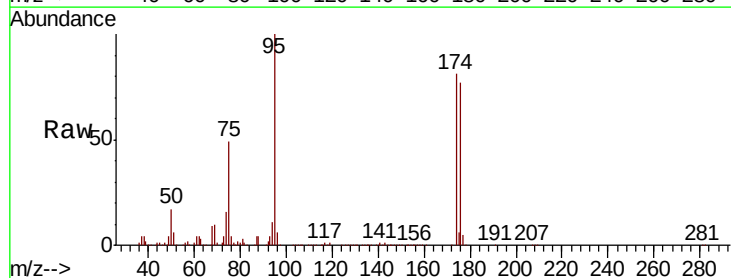
Acq: 13 May 2020 18:29

Tgt Ion: 75 Resp: 108723

Ion Ratio Lower Upper

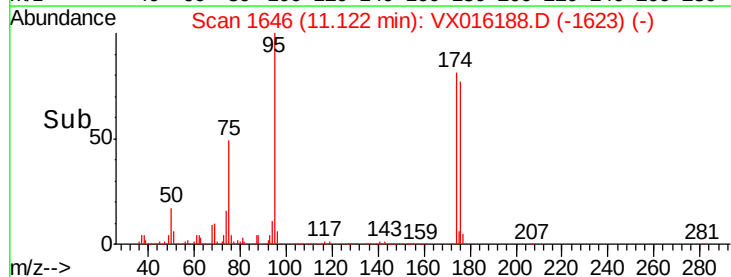
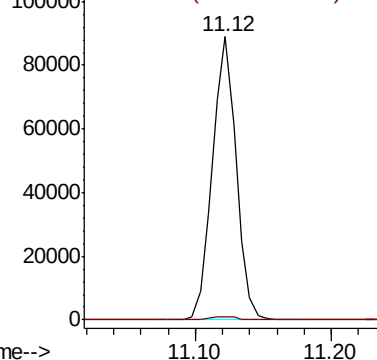
75 100

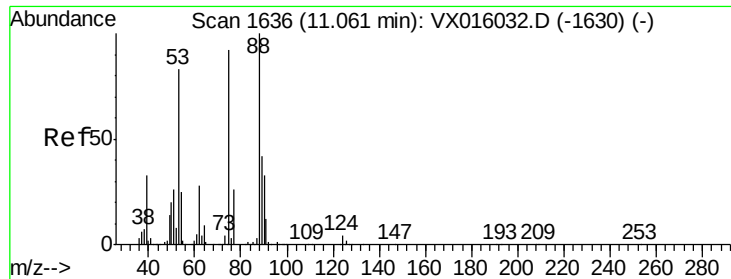
77 1.4 21.2 63.6#



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: 49.876 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016188.D
 Acq: 13 May 2020 18:29

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW730-200512

Tot Ion: 75 Resp: 108723
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#

