

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\
 Data File : VX016179.D
 Acq On : 13 May 2020 15:06
 Operator : JC/SP
 Sample : L2597-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW210-200511

Quant Time: May 14 04:28:20 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	272204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	447086	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	447267	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	234063	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	166193	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
35) Dibromofluoromethane	5.47	113	132952	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
50) Toluene-d8	8.70	98	559300	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.12	95	225311	54.28	ug/l	0.00
Spiked Amount			Recovery	=	108.56%	

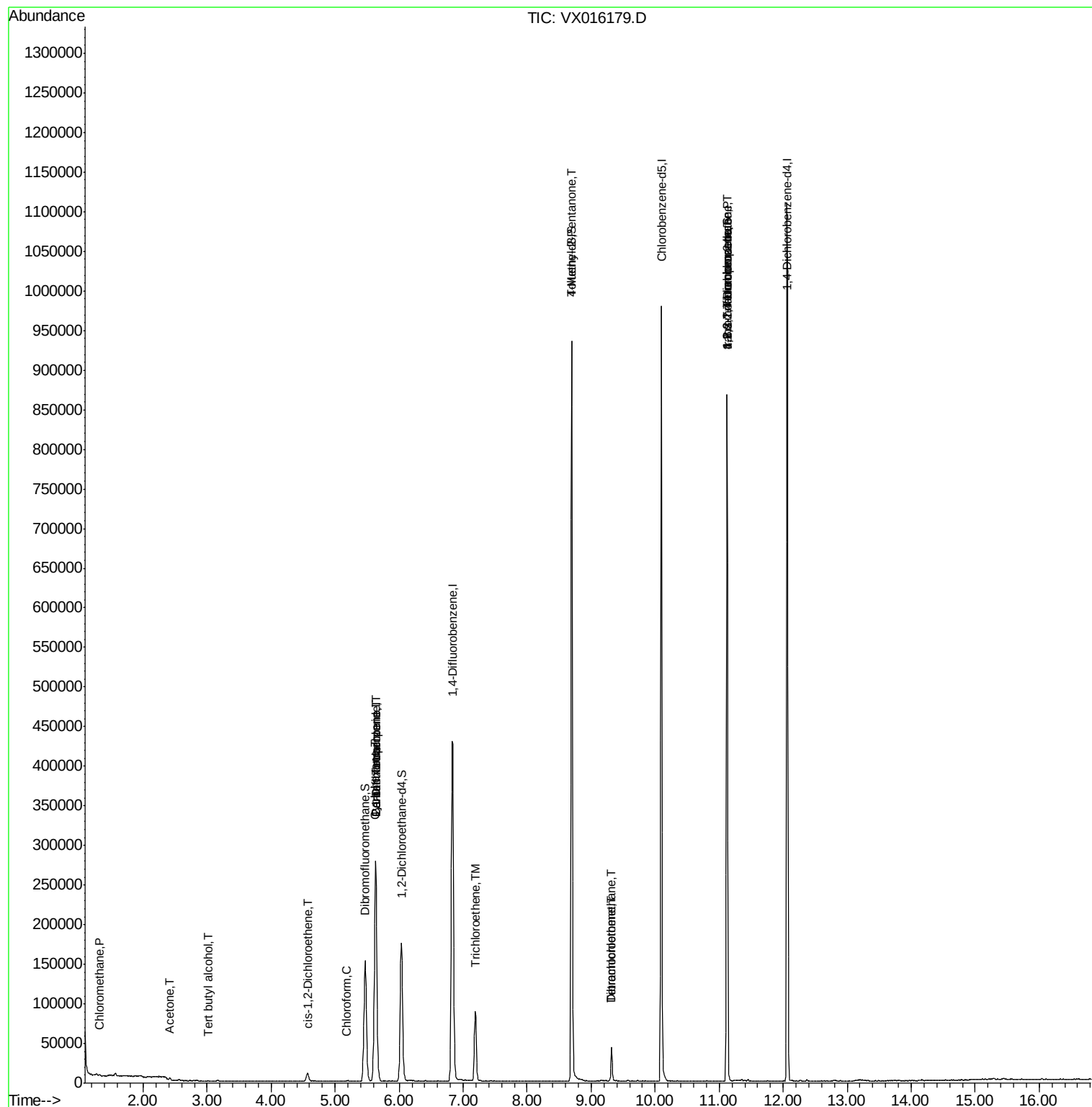
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	868	0.259	ug/l #	87
11) Tert butyl alcohol	3.01	59	380	0.420	ug/l #	72
16) Acetone	2.42	43	2575	1.611	ug/l #	88
17) Carbon Disulfide	2.56	76	1170	Below Cal	#	79
27) cis-1,2-Dichloroethene	4.57	96	6652	1.930	ug/l	87
30) Chloroform	5.17	83	1180	0.216	ug/l	92
31) Cyclohexane	5.62	56	5203	1.046	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	19613	4.457	ug/l #	50
38) Carbon Tetrachloride	5.63	117	25327	5.662	ug/l #	14
44) Trichloroethene	7.19	130	33669	7.360	ug/l	100
51) 4-Methyl-2-Pentanone	8.70	43	2410	0.484	ug/l #	1
60) Dibromochloromethane	9.32	129	7755	2.230	ug/l #	11
64) Tetrachloroethene	9.32	164	8181	1.490	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.12	83	182	2.106	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	110807	20.862	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	110807	49.716	ug/l #	13

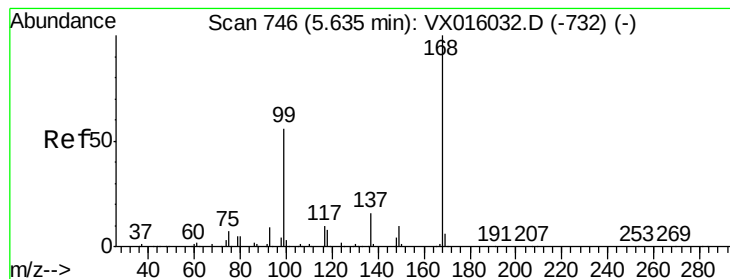
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

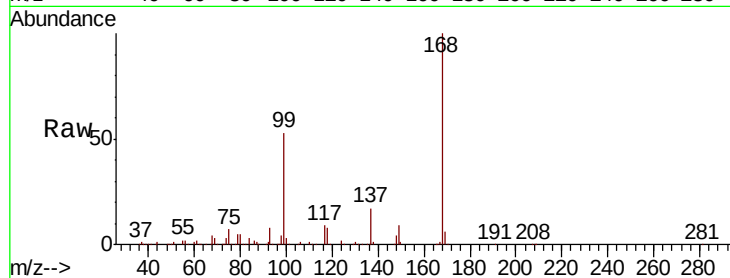
SS052MW210-200511

Tot Ion:168 Resp: 272204

Ion Ratio Lower Upper

168 100

99 52.7 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

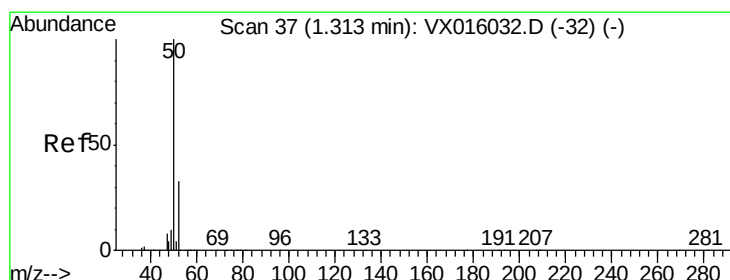
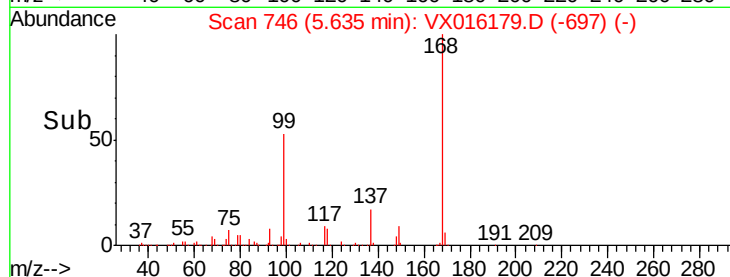
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.259 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016179.D

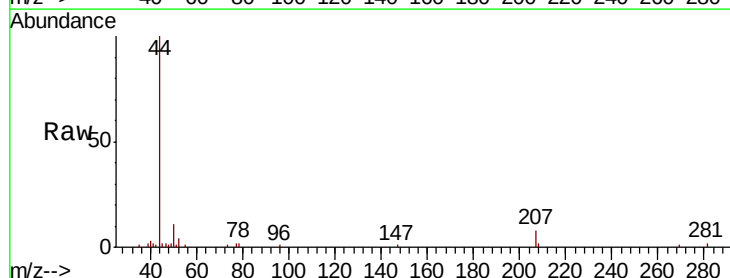
Acq: 13 May 2020 15:06

Tgt Ion: 50 Resp: 868

Ion Ratio Lower Upper

50 100

52 39.6 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

800

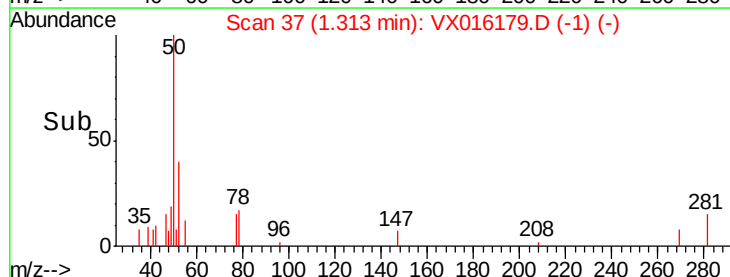
600

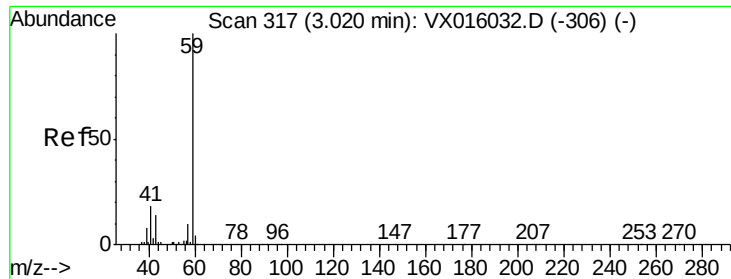
400

200

0

Time-->

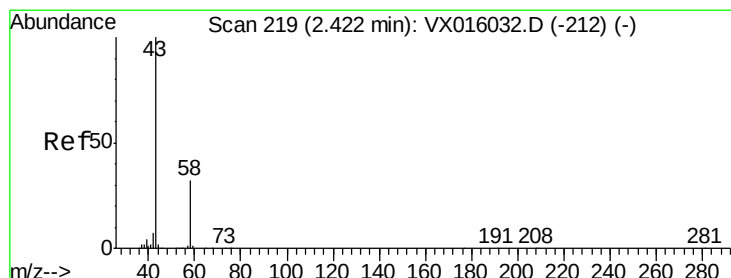
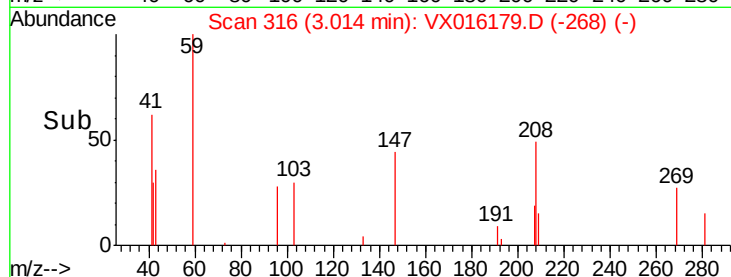
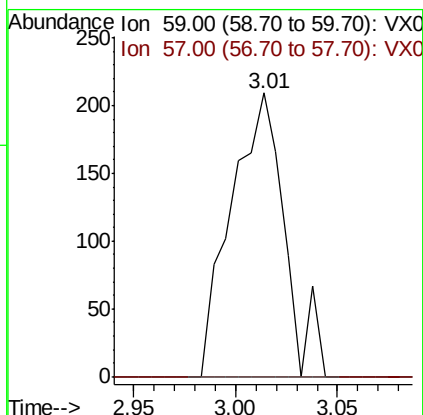
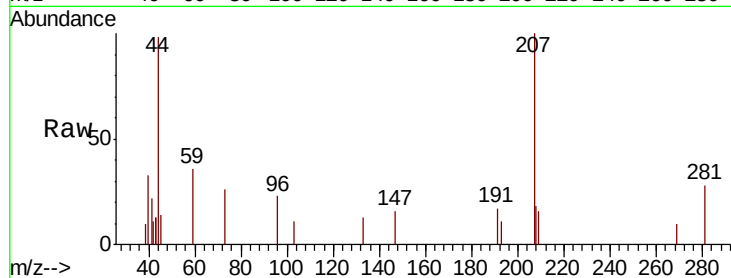




#11
Tert butyl alcohol
Concen: 0.420 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX016179.D
Acq: 13 May 2020 15:06

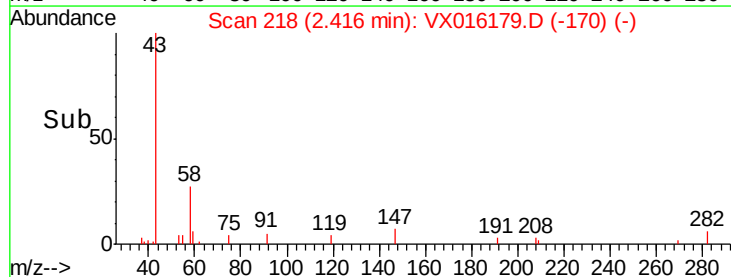
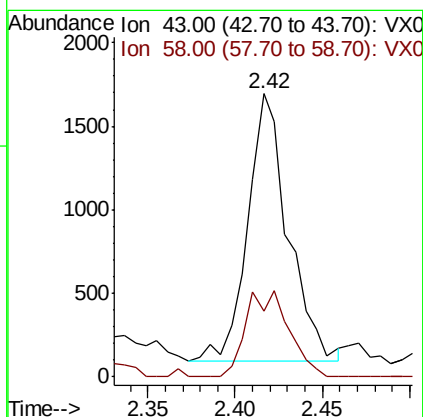
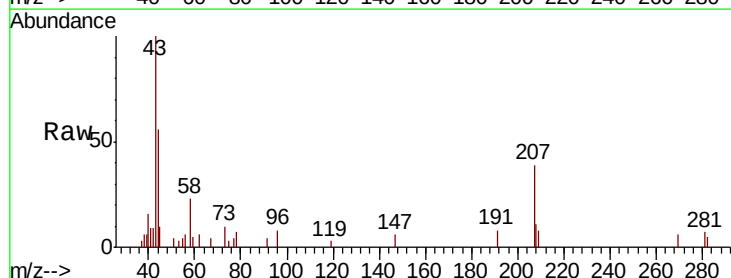
Instrument :
MSVOA_X
ClientSampleId :
SS052MW210-200511

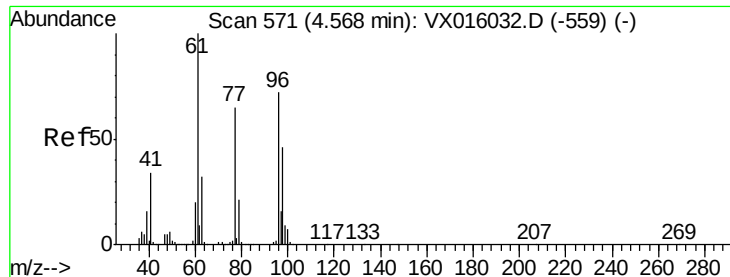
Tot Ion: 59 Resp: 380
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 1.611 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX016179.D
Acq: 13 May 2020 15:06

Tgt Ion: 43 Resp: 2575
Ion Ratio Lower Upper
43 100
58 24.8 25.4 38.0#





#27

cis-1,2-Dichloroethene

Concen: 1.930 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

SS052MW210-200511

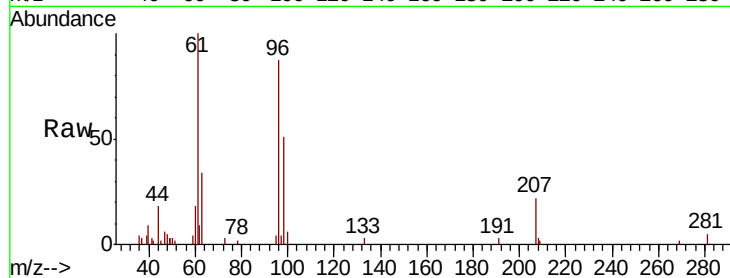
Tot Ion: 96 Resp: 6652

Ion Ratio Lower Upper

96 100

61 127.7 0.0 296.2

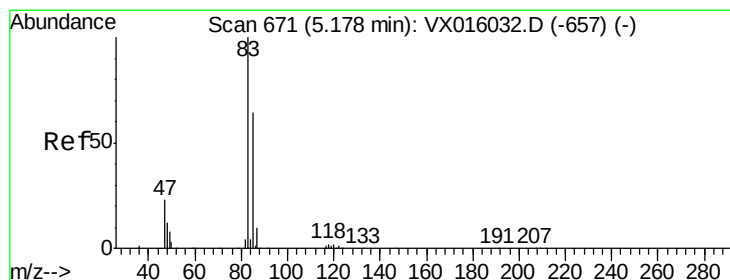
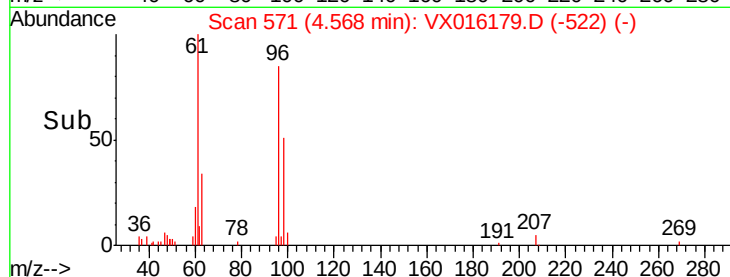
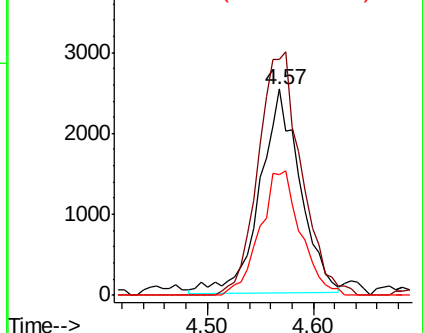
98 61.5 0.0 129.4



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



#30

Chloroform

Concen: 0.216 ug/l

RT: 5.17 min Scan# 670

Delta R.T. -0.01 min

Lab File: VX016179.D

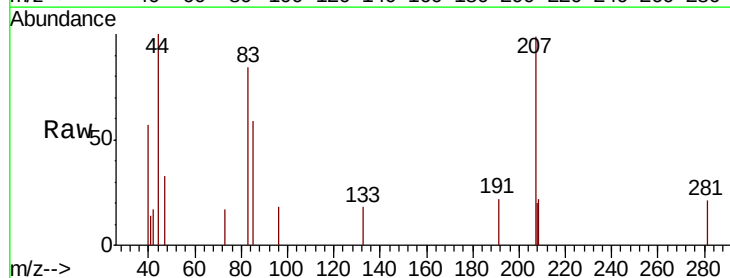
Acq: 13 May 2020 15:06

Tgt Ion: 83 Resp: 1180

Ion Ratio Lower Upper

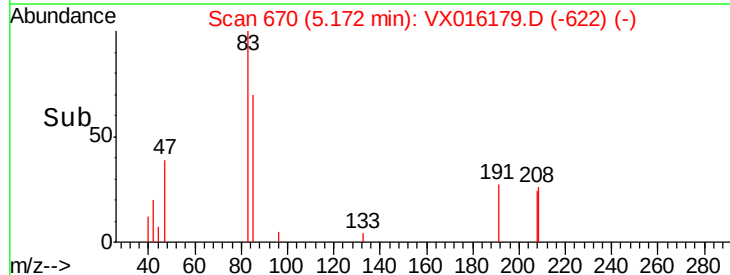
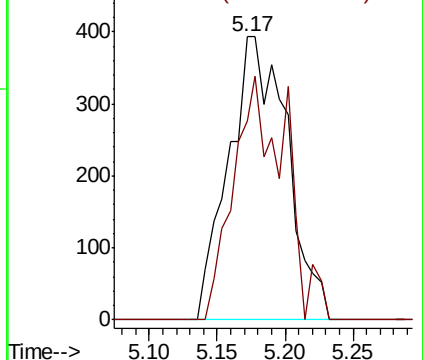
83 100

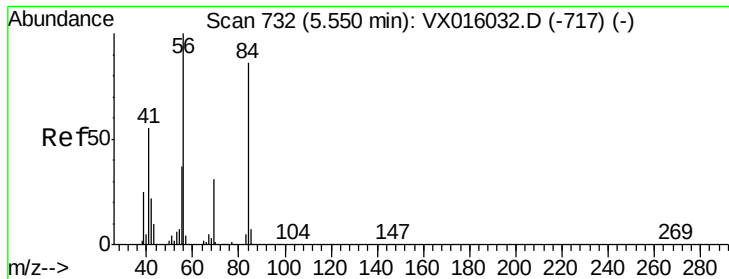
85 70.5 51.6 77.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.046 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

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SS052MW210-200511

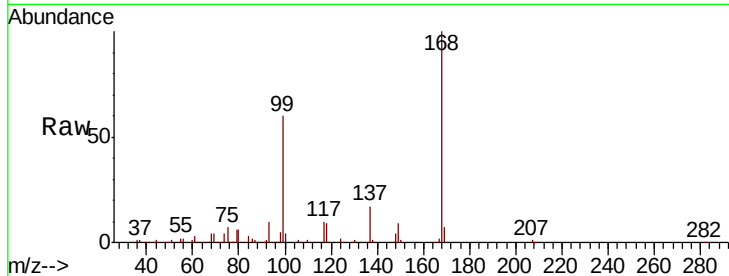
Tot Ion: 56 Resp: 5203

Ion Ratio Lower Upper

56 100

69 178.3 25.0 37.6#

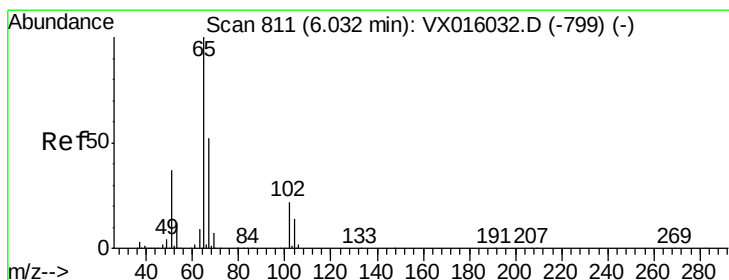
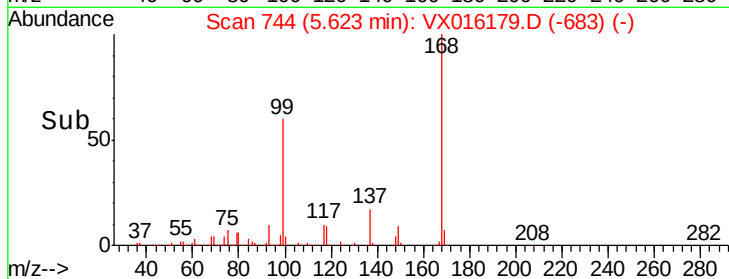
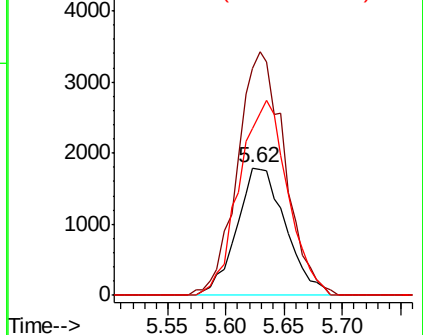
84 130.8 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.398 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016179.D

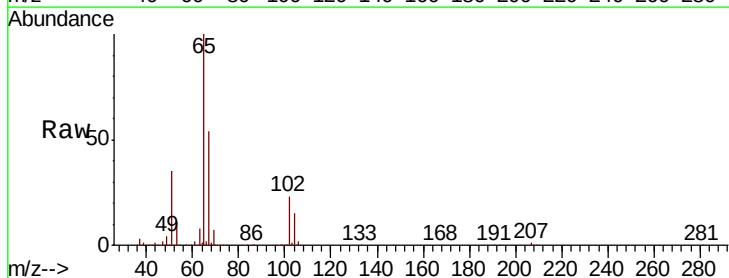
Acq: 13 May 2020 15:06

Tgt Ion: 65 Resp: 166193

Ion Ratio Lower Upper

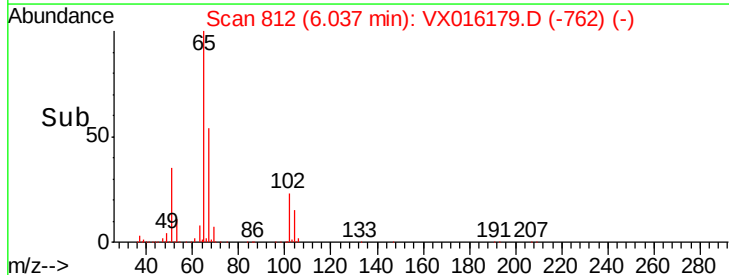
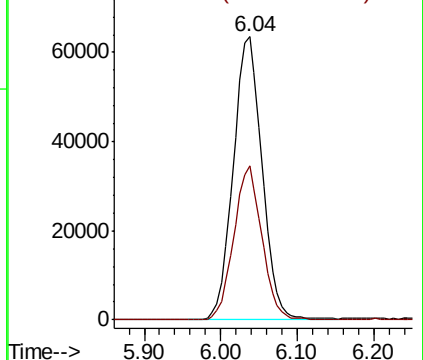
65 100

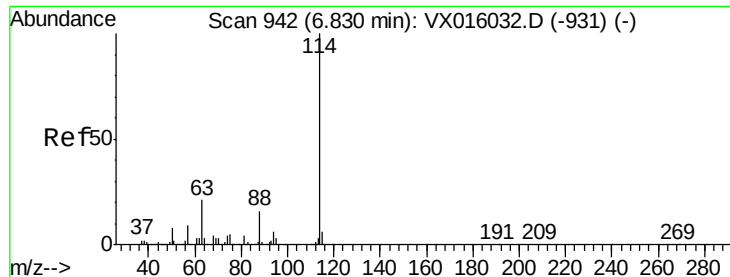
67 52.7 0.0 104.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

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ClientSampleId :

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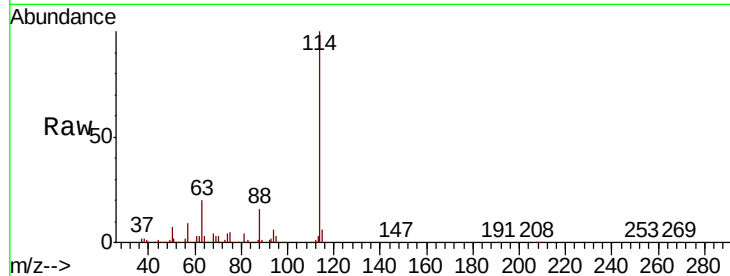
Tot Ion:114 Resp: 447086

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.8

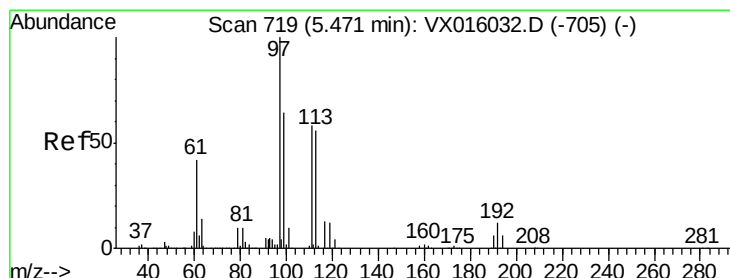
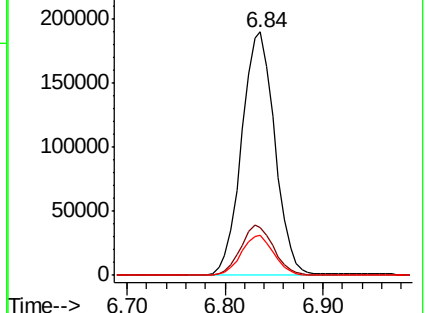
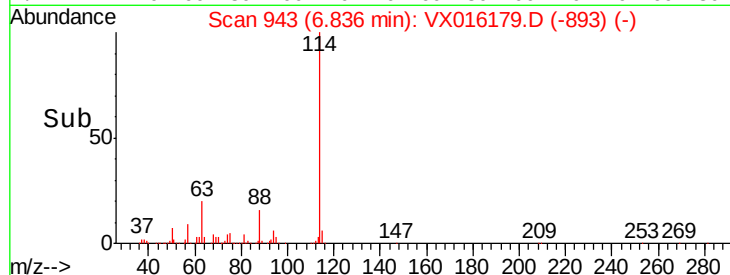
88 16.2 0.0 31.4



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: 46.938 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

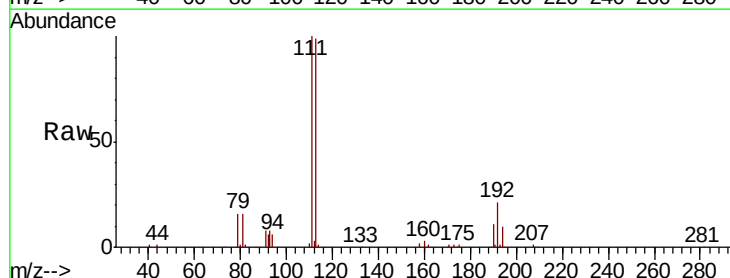
Tgt Ion:113 Resp: 132952

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

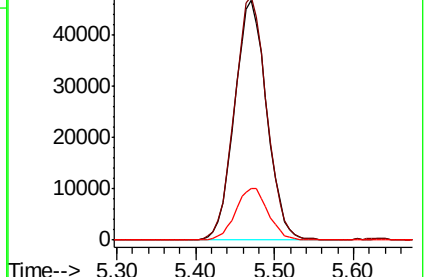
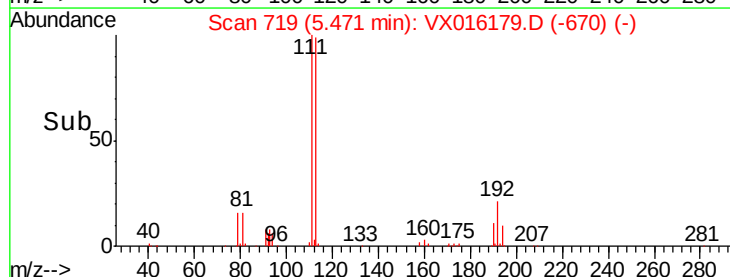
192 21.9 17.0 25.4

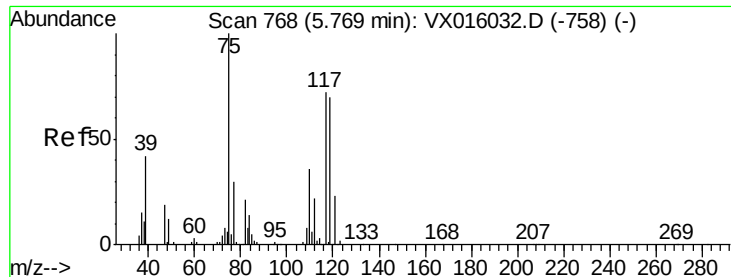


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.457 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

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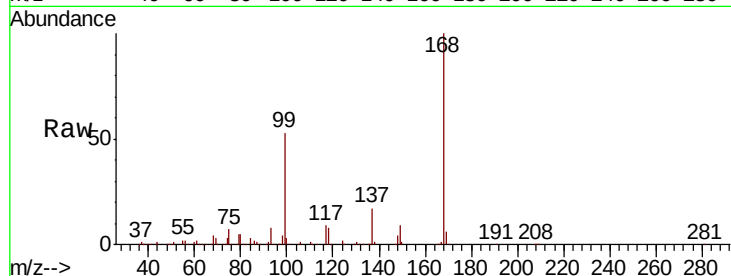
Tot Ion: 75 Resp: 19613

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.1#

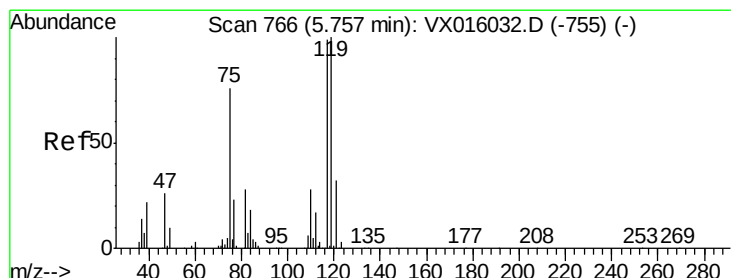
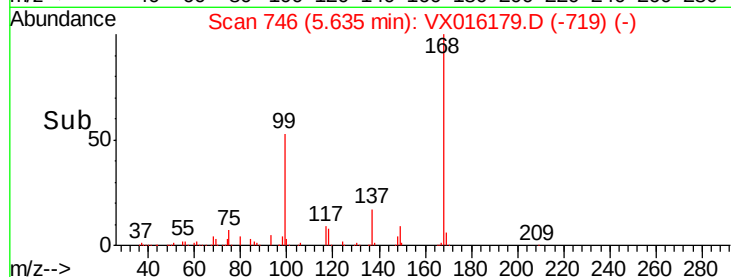
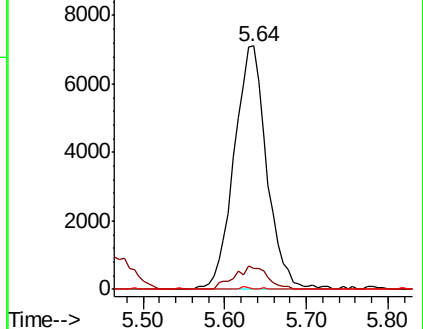
77 0.3 25.0 37.6#



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: 5.662 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

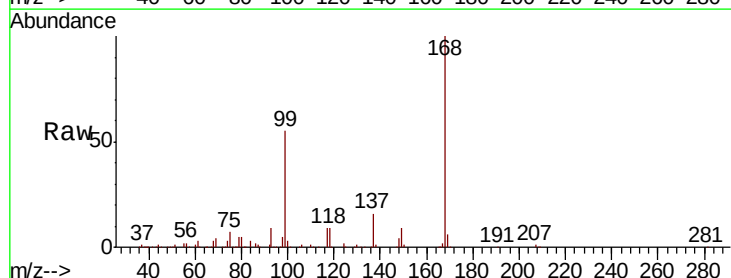
Tgt Ion: 117 Resp: 25327

Ion Ratio Lower Upper

117 100

119 5.2 80.3 120.5#

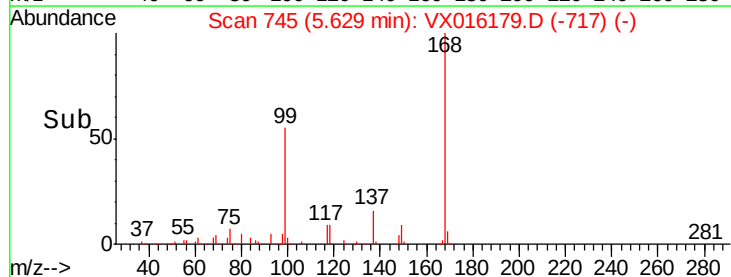
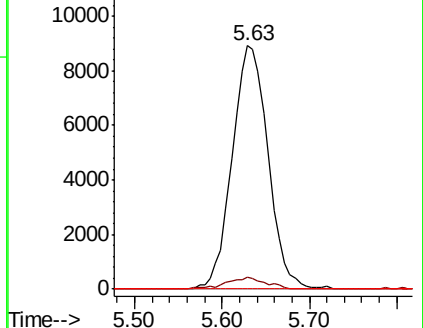
121 0.0 25.7 38.5#

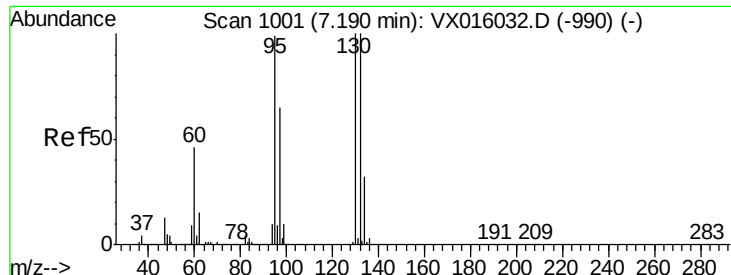


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 7.360 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

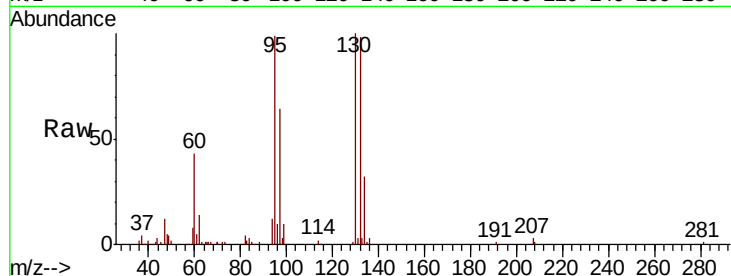
SS052MW210-200511

Tot Ion:130 Resp: 33669

Ion Ratio Lower Upper

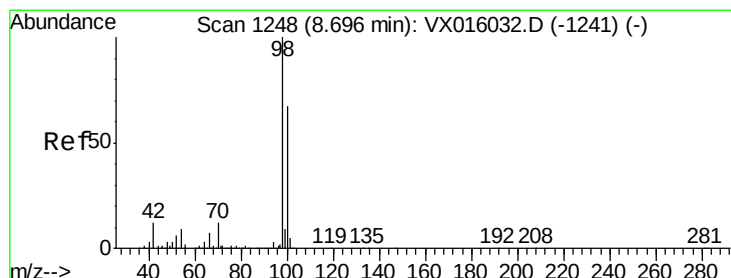
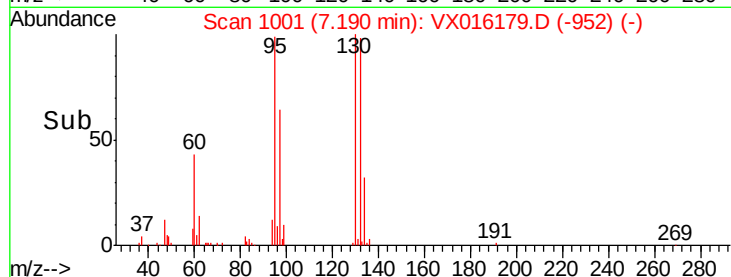
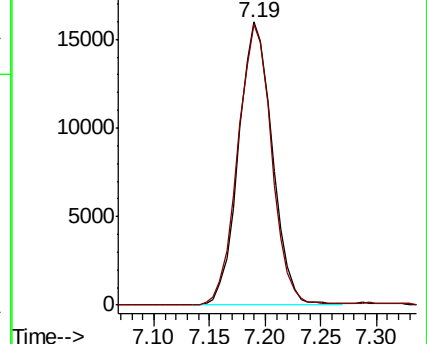
130 100

95 99.0 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 51.247 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016179.D

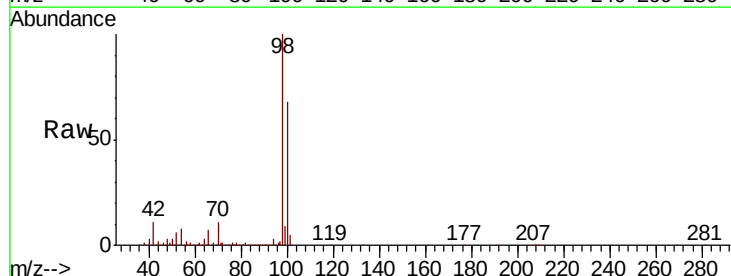
Acq: 13 May 2020 15:06

Tgt Ion: 98 Resp: 559300

Ion Ratio Lower Upper

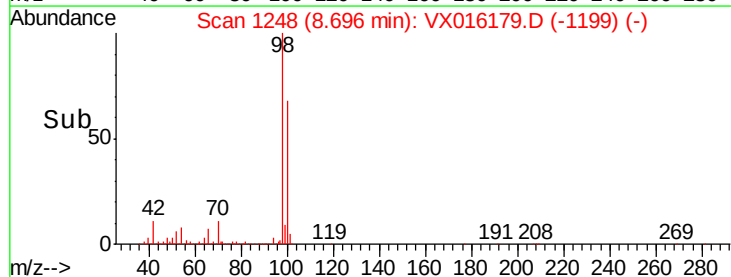
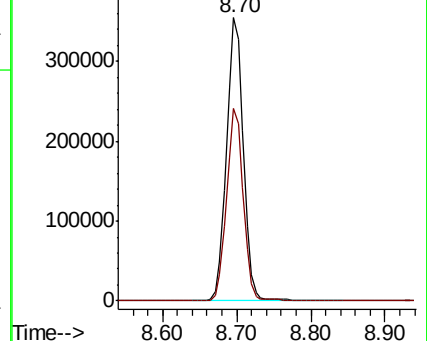
98 100

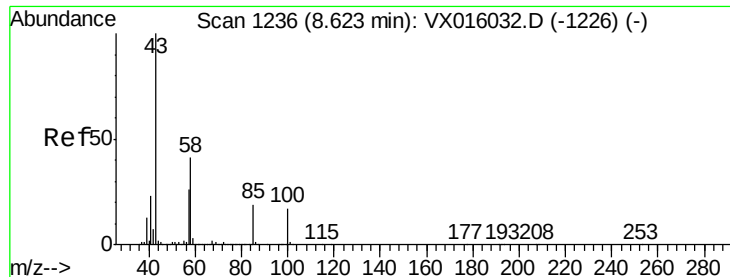
100 67.1 53.7 80.5



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: 0.484 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

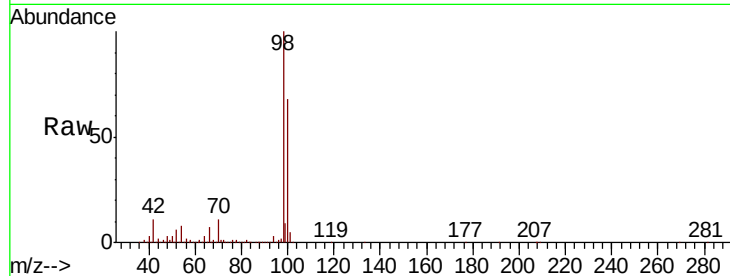
SS052MW210-200511

Tot Ion: 43 Resp: 2410

Ion Ratio Lower Upper

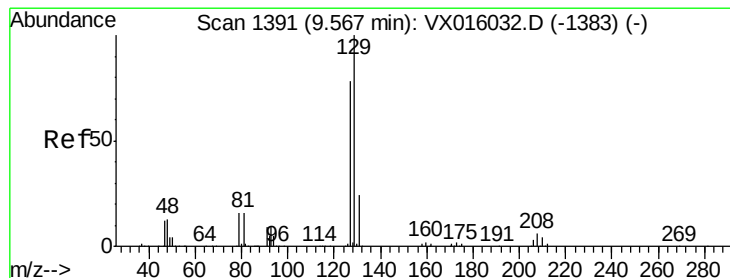
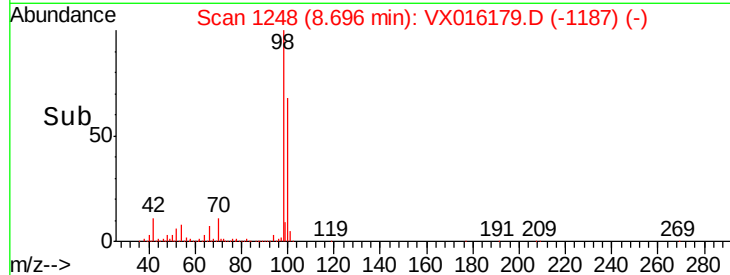
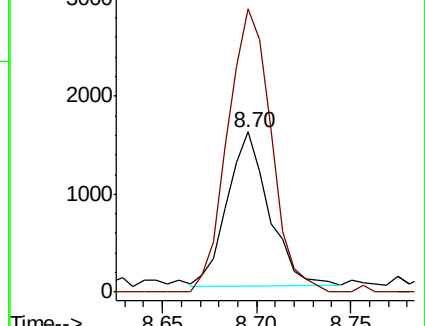
43 100

58 192.0 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 2.230 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016179.D

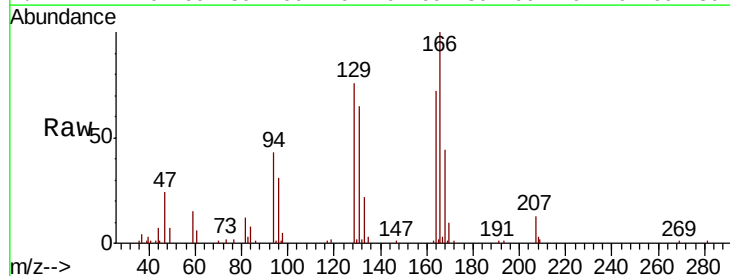
Acq: 13 May 2020 15:06

Tgt Ion: 129 Resp: 7755

Ion Ratio Lower Upper

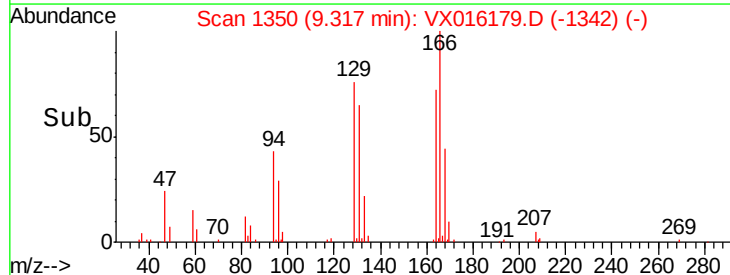
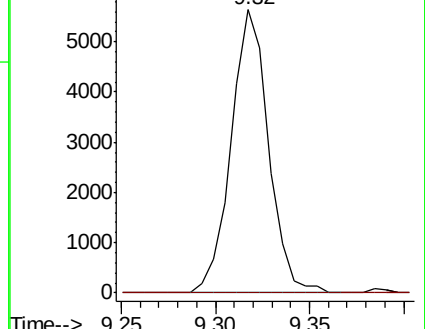
129 100

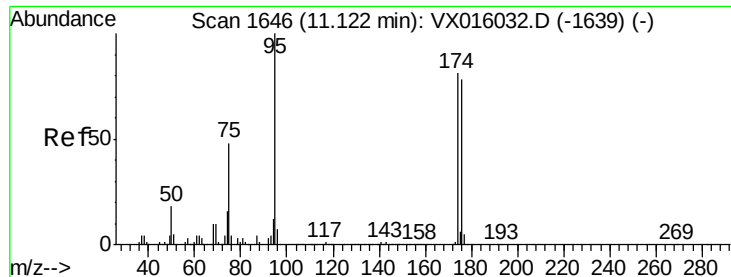
127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 54.278 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

SS052MW210-200511

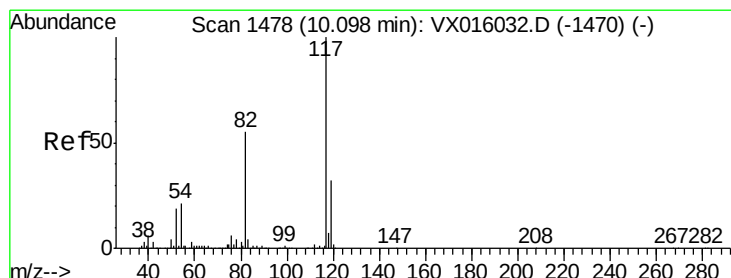
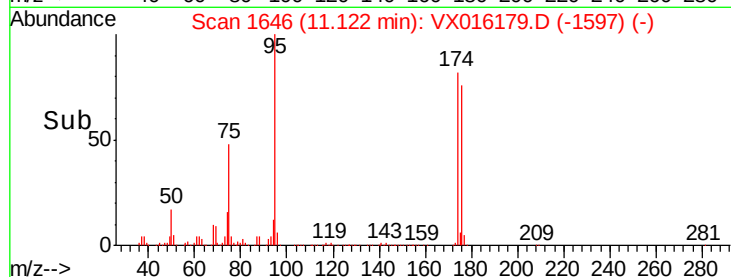
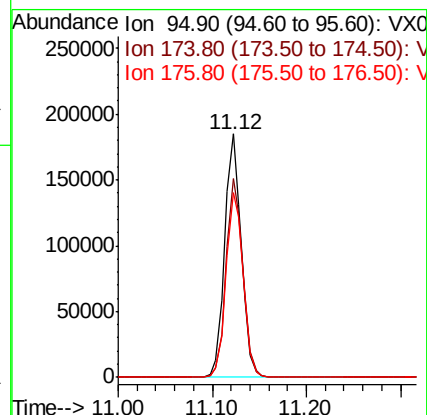
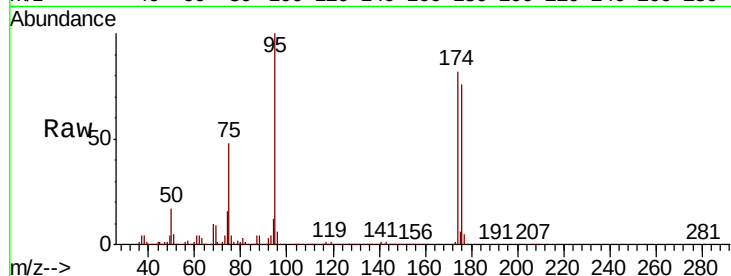
Tot Ion: 95 Resp: 225311

Ion Ratio Lower Upper

95 100

174 82.6 0.0 159.4

176 78.4 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: VX016179.D

Acq: 13 May 2020 15:06

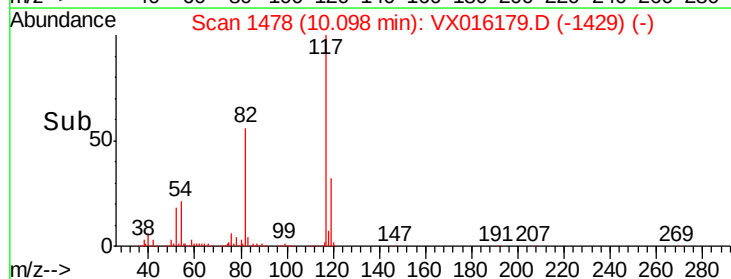
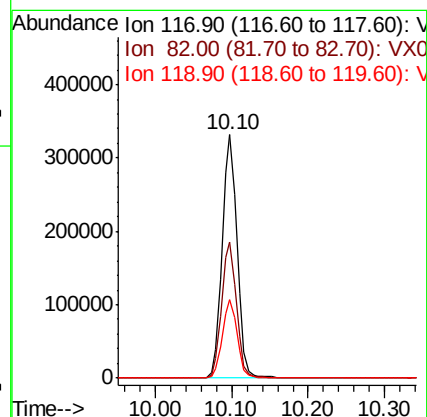
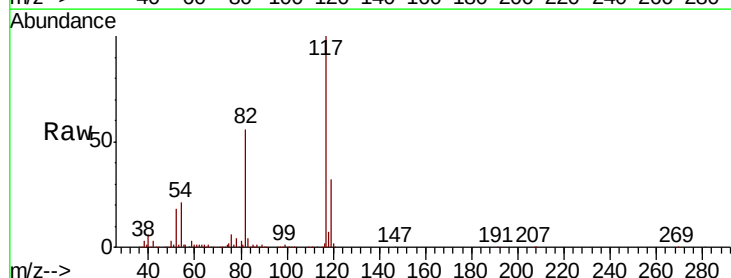
Tgt Ion: 117 Resp: 447267

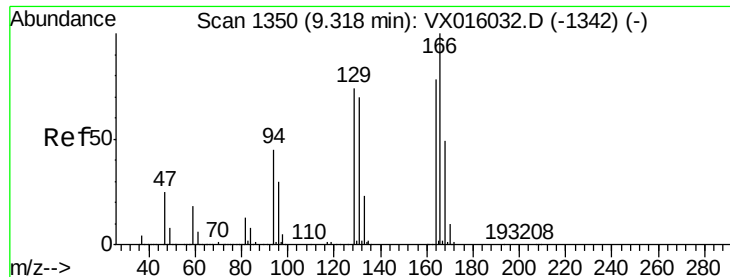
Ion Ratio Lower Upper

117 100

82 56.0 44.4 66.6

119 32.0 25.5 38.3





#64

Tetrachloroethene

Concen: 1.490 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

SS052MW210-200511

Tot Ion:164 Resp: 8181

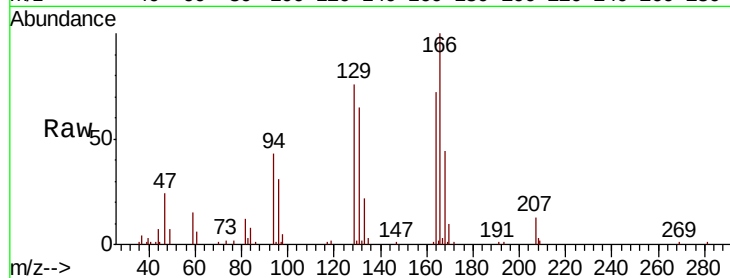
Ion Ratio Lower Upper

164 100

166 139.0 102.9 154.3

129 105.4 76.1 114.1

131 90.8 71.9 107.9

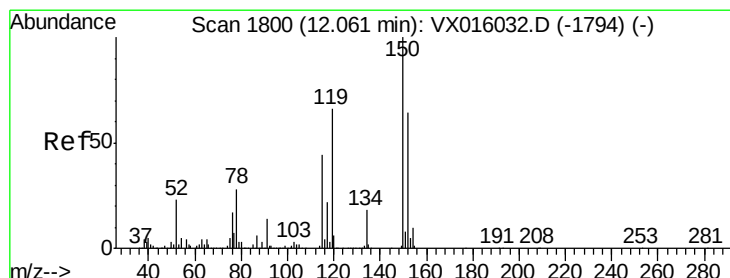
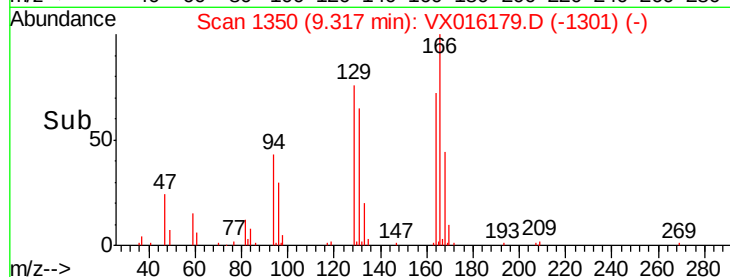
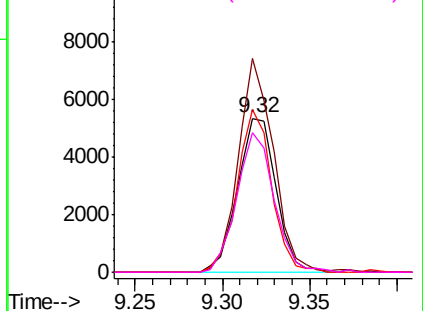


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

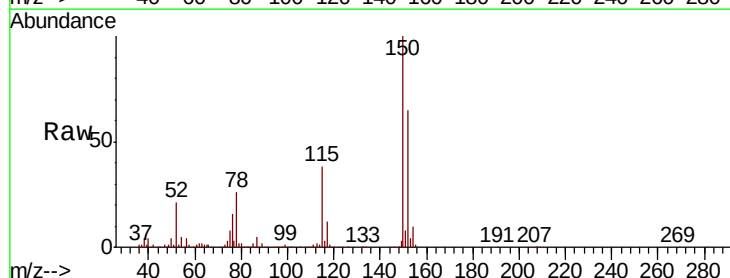
Tgt Ion:152 Resp: 234063

Ion Ratio Lower Upper

152 100

115 58.3 41.3 124.1

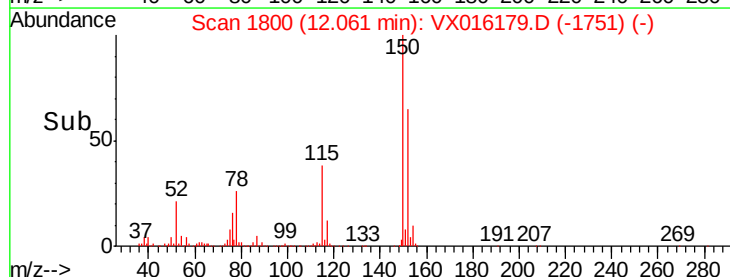
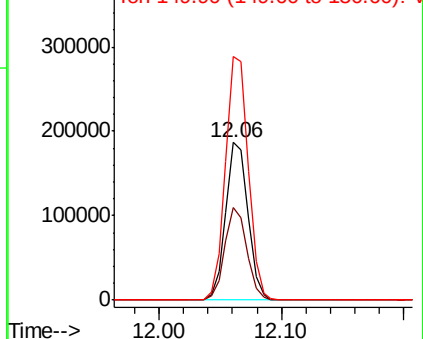
150 157.9 0.0 352.2

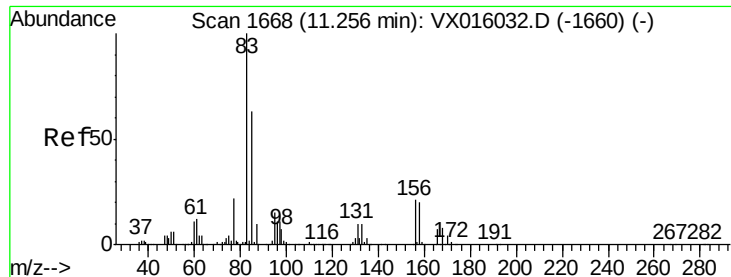


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.106 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016179.D

Acq: 13 May 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

SS052MW210-200511

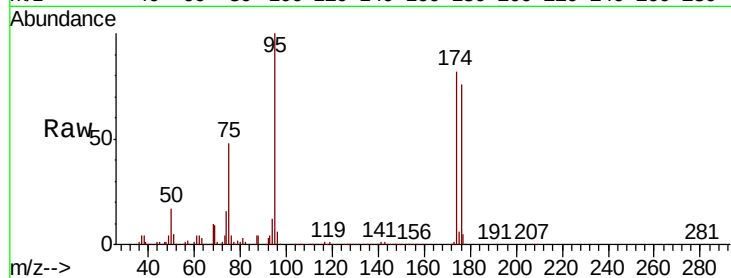
Tot Ion: 83 Resp: 182

Ion Ratio Lower Upper

83 100

131 176.4 5.1 15.4#

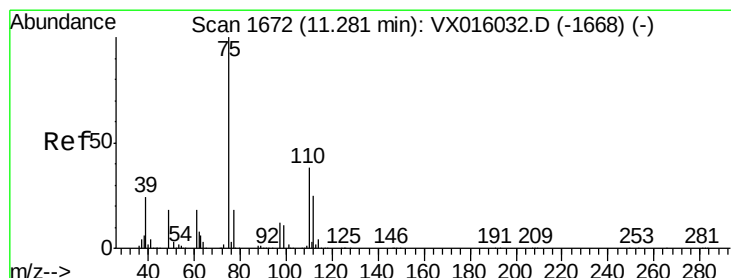
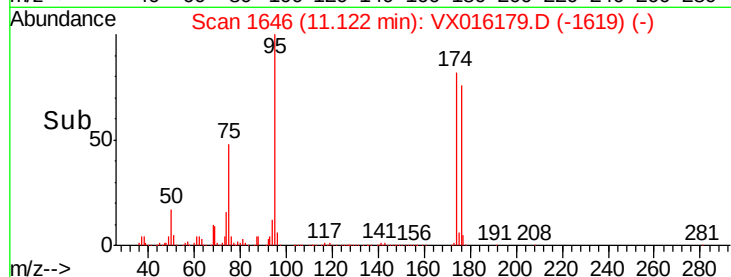
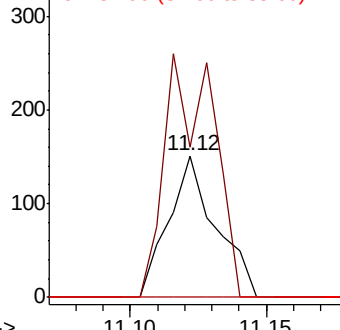
85 0.0 32.0 96.0#



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: 20.862 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016179.D

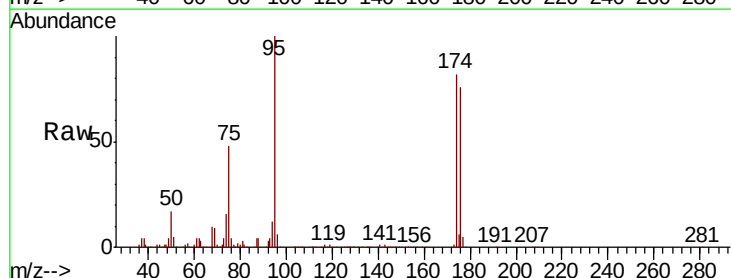
Acq: 13 May 2020 15:06

Tgt Ion: 75 Resp: 110807

Ion Ratio Lower Upper

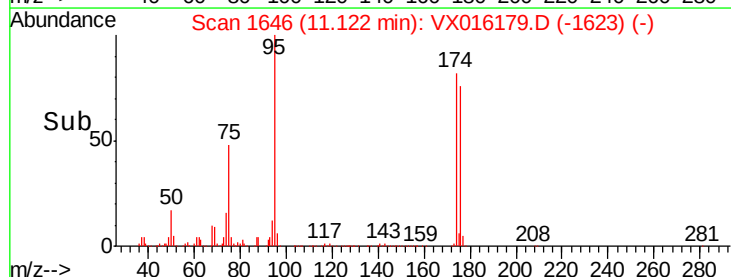
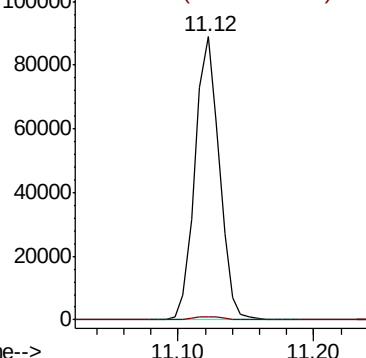
75 100

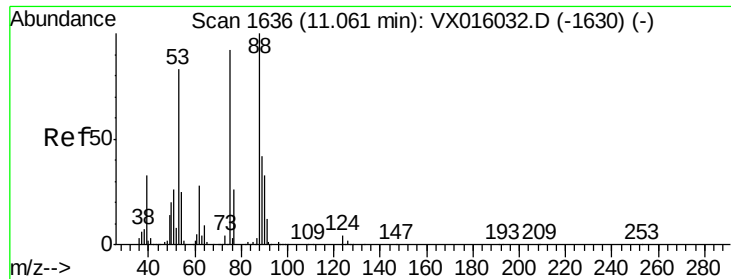
77 1.4 21.2 63.6#



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: 49.716 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016179.D
 Acq: 13 May 2020 15:06

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW210-200511

Tot Ion: 75 Resp: 110807
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#

