

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070620\
 Data File : VX017176.D
 Acq On : 06 Jul 2020 18:19
 Operator : JC/SP
 Sample : L3159-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 31S-20200629

Quant Time: Jul 07 06:52:26 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	5.63	168	285390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	468152	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	488557	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	277016	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	178851	50.83	ug/l	0.00
Spiked Amount						
			Recovery	=	101.66%	
35) Dibromofluoromethane	5.47	113	152157	51.38	ug/l	0.00
Spiked Amount						
			Recovery	=	102.76%	
50) Toluene-d8	8.70	98	567768	51.85	ug/l	0.00
Spiked Amount						
			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.12	95	245238	57.29	ug/l	0.00
Spiked Amount						
			Recovery	=	114.58%	

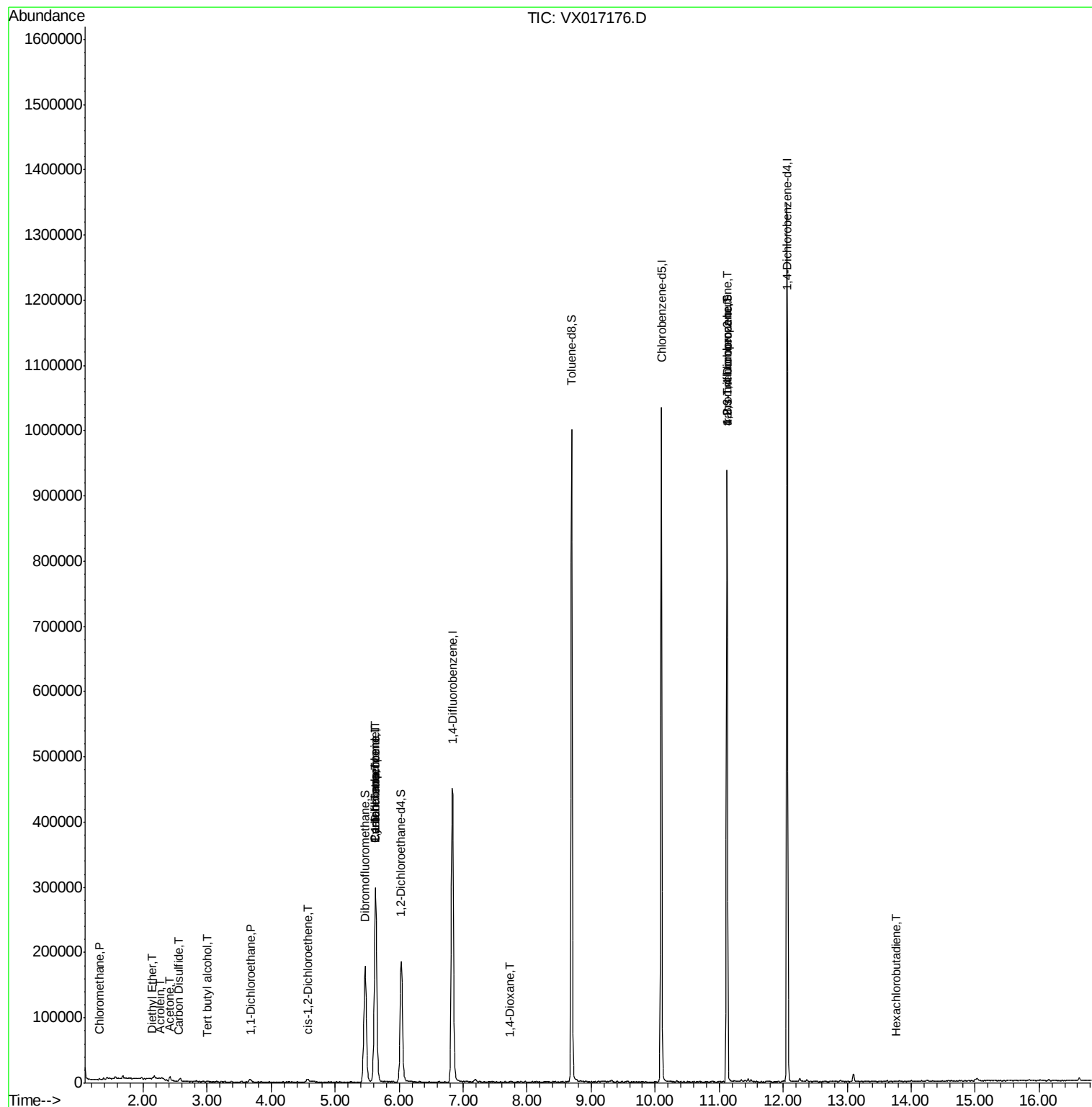
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1227	0.367	ug/l	94
8) Diethyl Ether	2.15	74	64	0.407	ug/l #	1
11) Tert butyl alcohol	3.01	59	350	0.521	ug/l #	94
13) Acrolein	2.26	56	306	0.763	ug/l #	51
16) Acetone	2.42	43	6706	5.095	ug/l	95
17) Carbon Disulfide	2.55	76	1410	0.202	ug/l #	79
20) Methylene Chloride	2.83	84	467	Below Cal	#	54
24) 1,1-Dichloroethane	3.67	63	3985	0.725	ug/l	97
27) cis-1,2-Dichloroethene	4.56	96	3057	0.861	ug/l	89
31) Cyclohexane	5.62	56	5720	1.204	ug/l #	28
36) 1,1-Dichloropropene	5.62	75	20253	4.577	ug/l #	51
38) Carbon Tetrachloride	5.64	117	28157	5.778	ug/l #	17
49) 1,4-Dioxane	7.73	88	22	0.274	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	120209	22.067	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	120209	57.147	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	513	Below Cal		77
94) Hexachlorobutadiene	13.76	225	97	0.888	ug/l #	29

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

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31S-20200629

Quant Time: Jul 07 06:52:26 2020
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QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampleId :

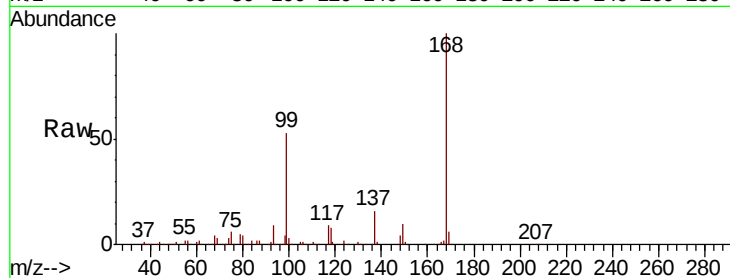
31S-20200629

Tot Ion:168 Resp: 285390

Ion Ratio Lower Upper

168 100

99 52.8 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

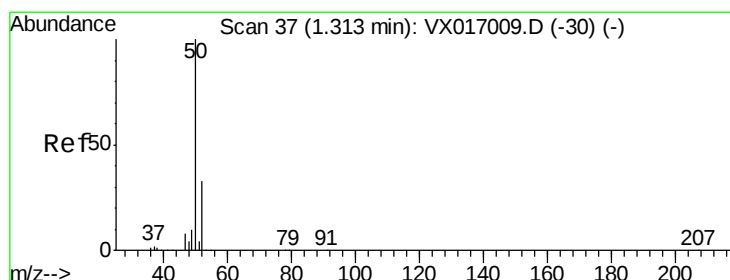
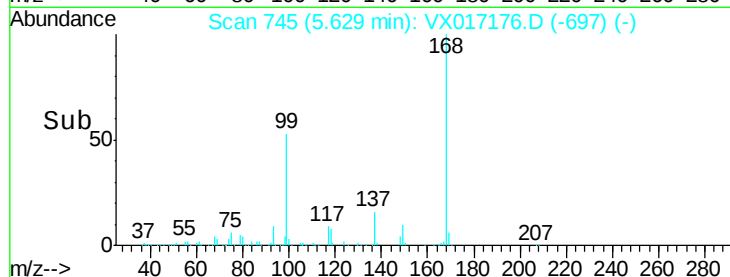
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.367 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017176.D

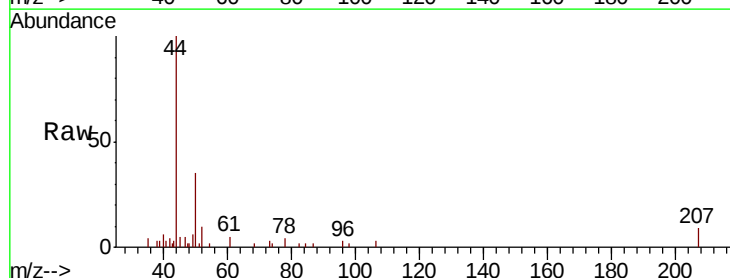
Acq: 06 Jul 2020 18:19

Tgt Ion: 50 Resp: 1227

Ion Ratio Lower Upper

50 100

52 29.2 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

1000

800

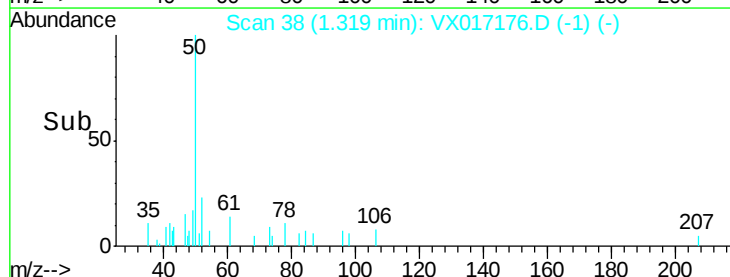
600

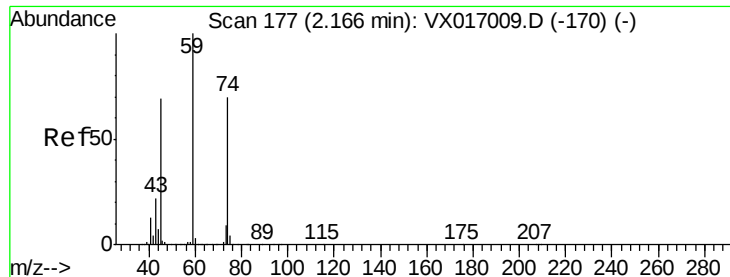
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.407 ug/l

RT: 2.15 min Scan# 174

Delta R.T. -0.02 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampleId :

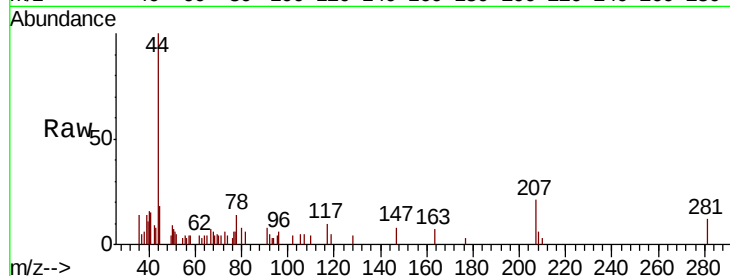
31S-20200629

Tot Ion: 74 Resp: 64

Ion Ratio Lower Upper

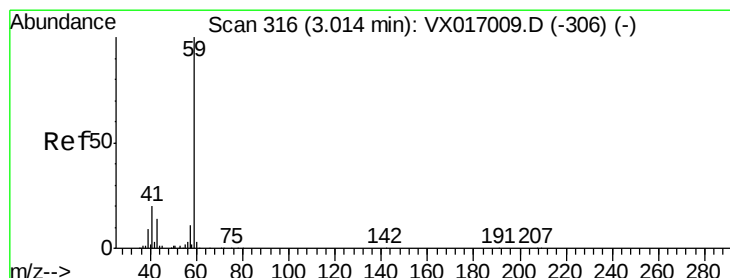
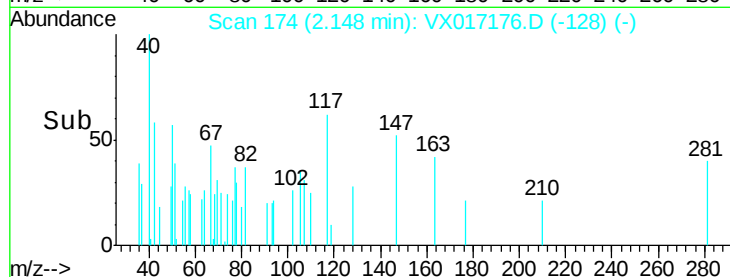
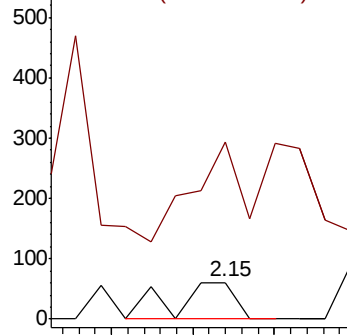
74 100

45 400.0 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: 0.521 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX017176.D

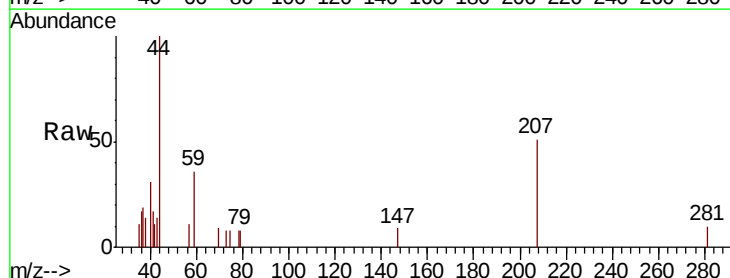
Acq: 06 Jul 2020 18:19

Tgt Ion: 59 Resp: 350

Ion Ratio Lower Upper

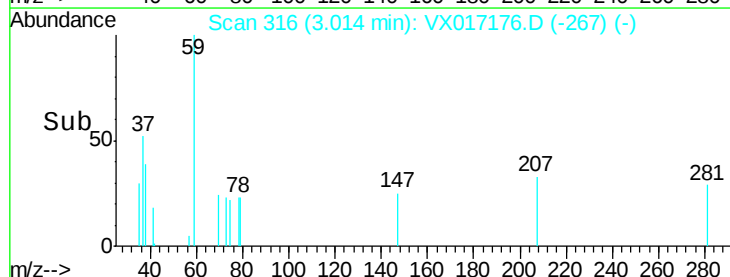
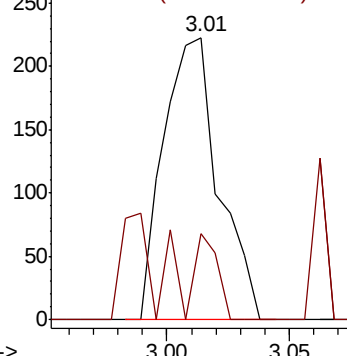
59 100

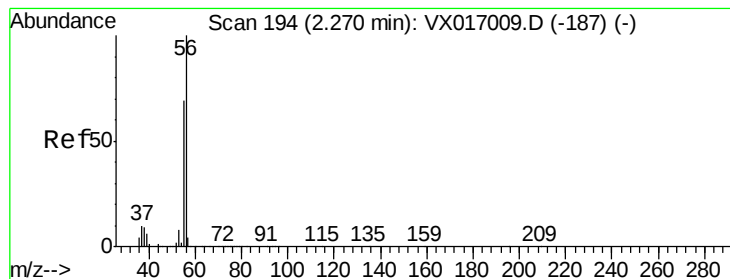
57 12.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.763 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampled :

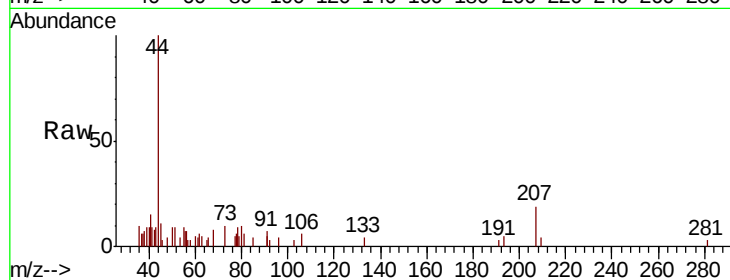
31S-20200629

Tot Ion: 56 Resp: 306

Ion Ratio Lower Upper

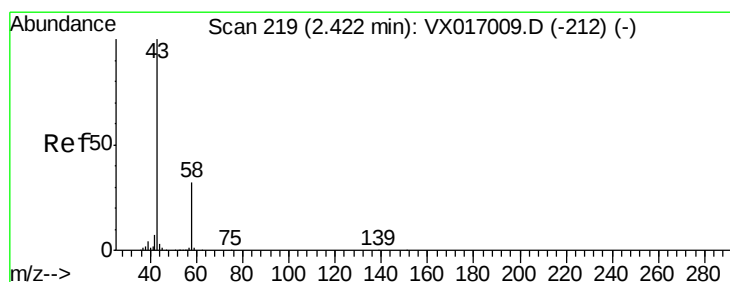
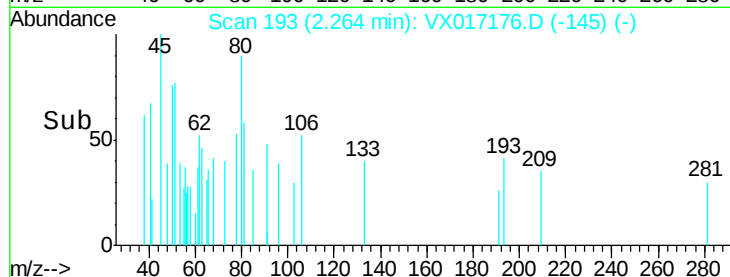
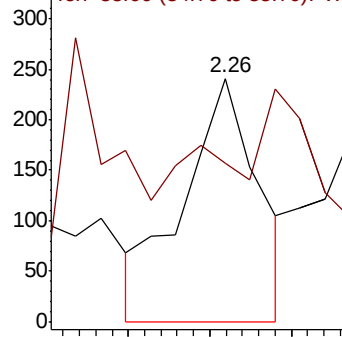
56 100

55 29.4 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.095 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017176.D

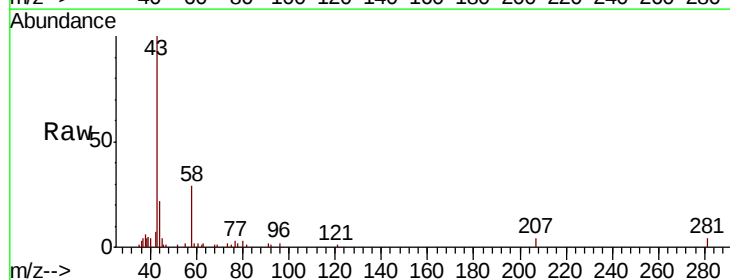
Acq: 06 Jul 2020 18:19

Tgt Ion: 43 Resp: 6706

Ion Ratio Lower Upper

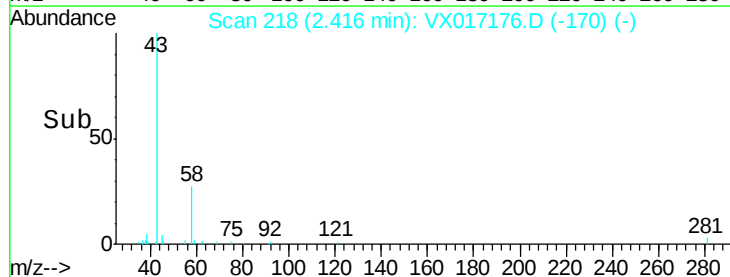
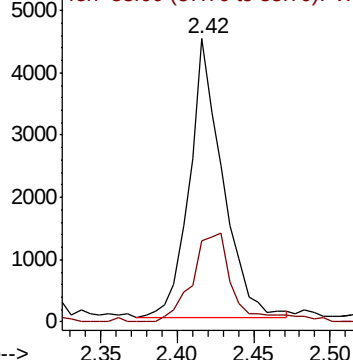
43 100

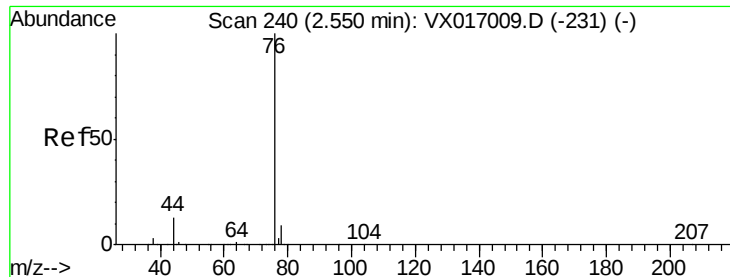
58 29.2 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

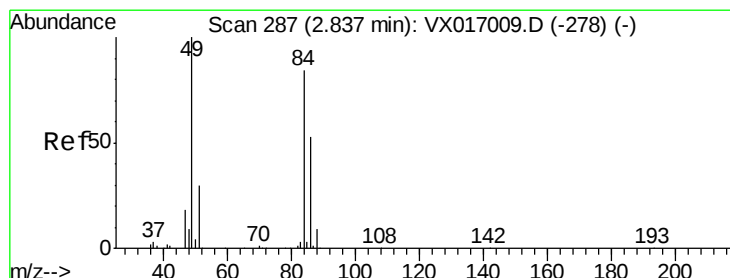
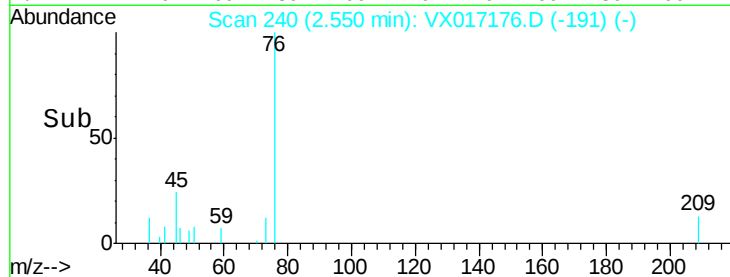
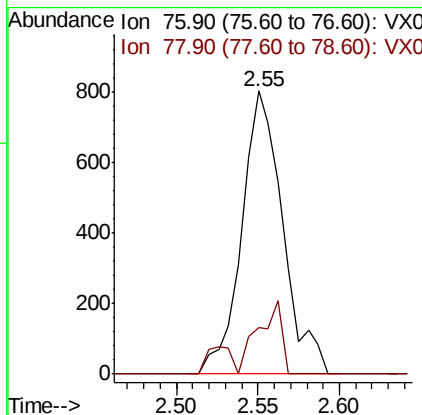
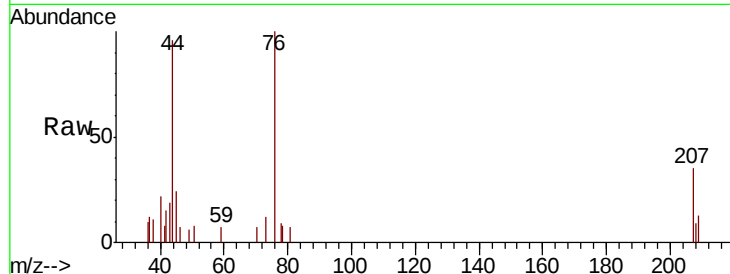




#17
Carbon Disulfide
Concen: 0.202 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX017176.D
Acq: 06 Jul 2020 18:19

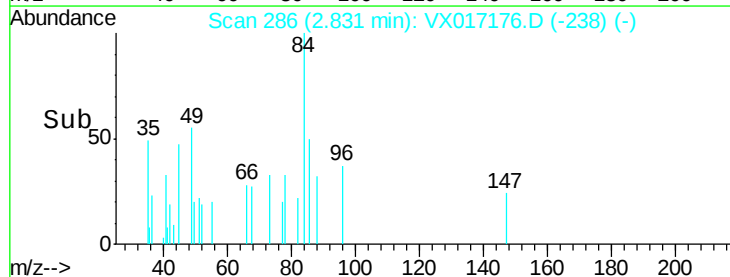
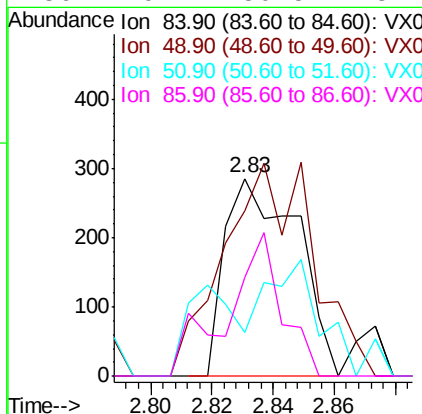
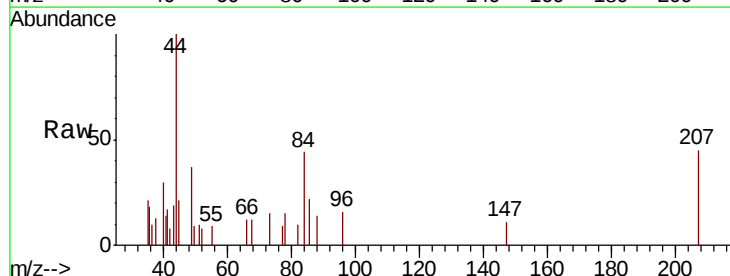
Instrument :
MSVOA_X
ClientSampleId :
31S-20200629

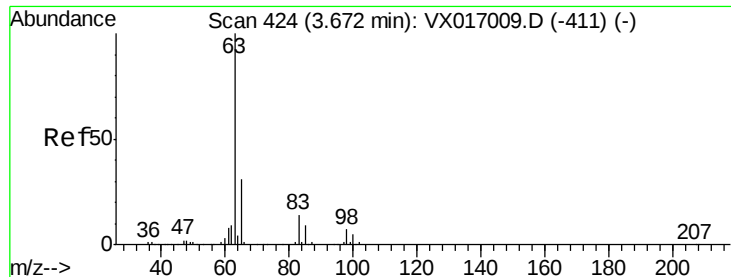
Tot Ion: 76 Resp: 1410
Ion Ratio Lower Upper
76 100
78 16.7 7.2 10.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017176.D
Acq: 06 Jul 2020 18:19

Tgt Ion: 84 Resp: 467
Ion Ratio Lower Upper
84 100
49 55.9 94.7 142.1#
51 0.0 28.6 42.8#
86 49.7 50.5 75.7#





#24

1,1-Dichloroethane

Concen: 0.725 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampleId :

31S-20200629

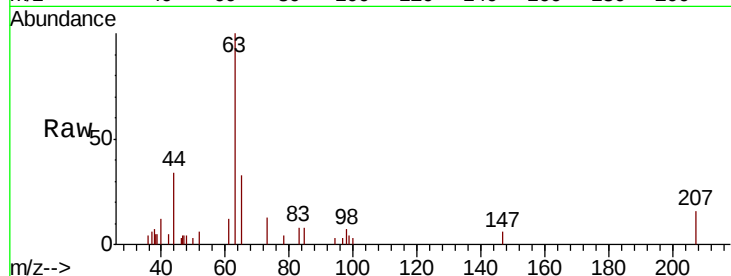
Tot Ion: 63 Resp: 3985

Ion Ratio Lower Upper

63 100

98 6.5 3.6 10.8

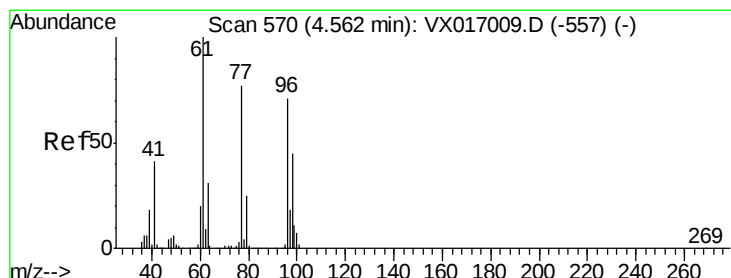
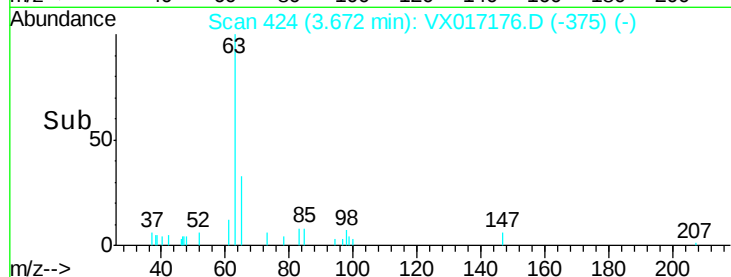
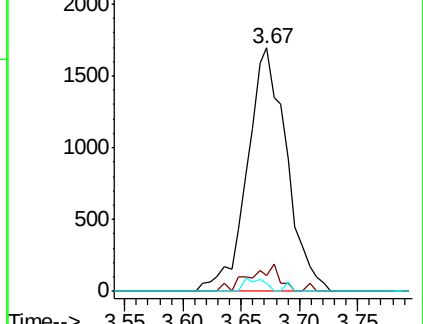
100 3.3 2.4 7.1



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: 0.861 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.00 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

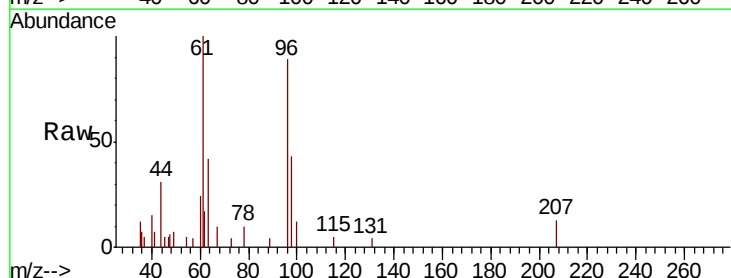
Tgt Ion: 96 Resp: 3057

Ion Ratio Lower Upper

96 100

61 122.7 0.0 282.8

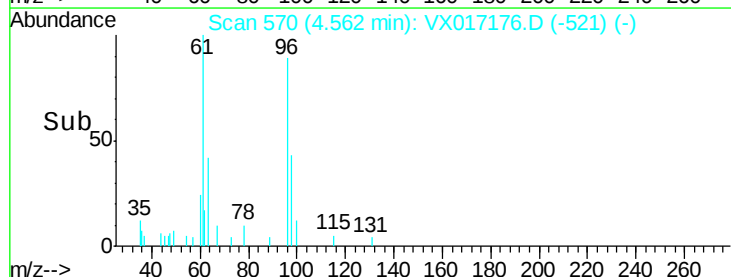
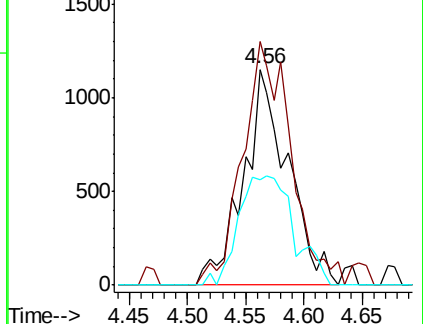
98 62.7 0.0 127.6

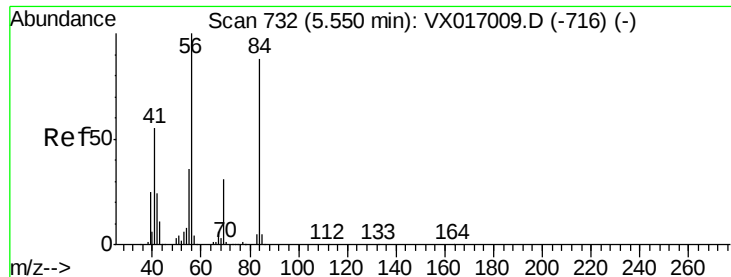


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

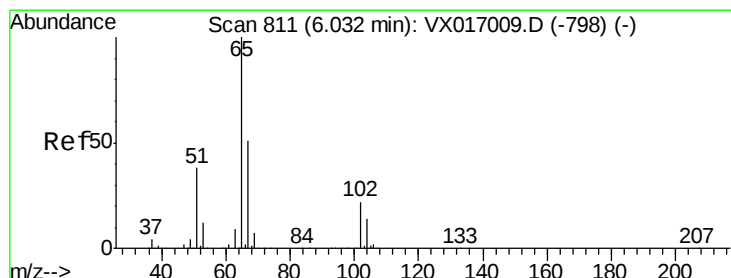
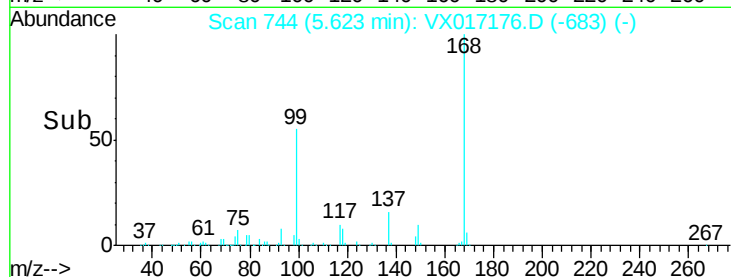
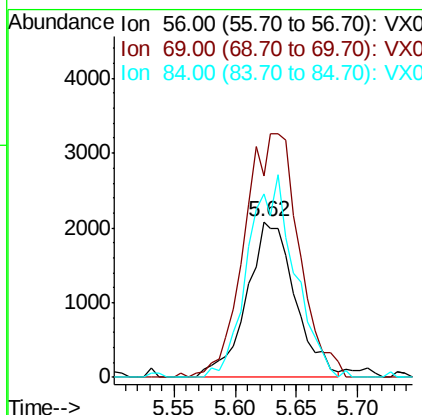
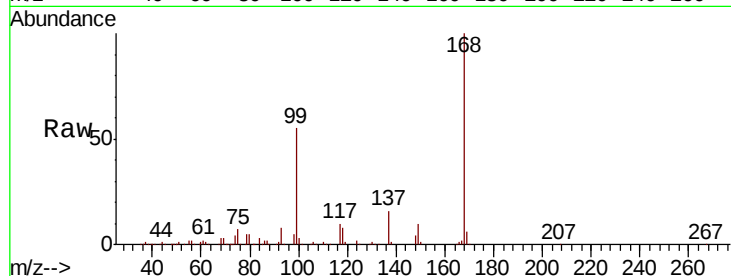




#31
Cyclohexane
Concen: 1.204 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX017176.D
Acq: 06 Jul 2020 18:19

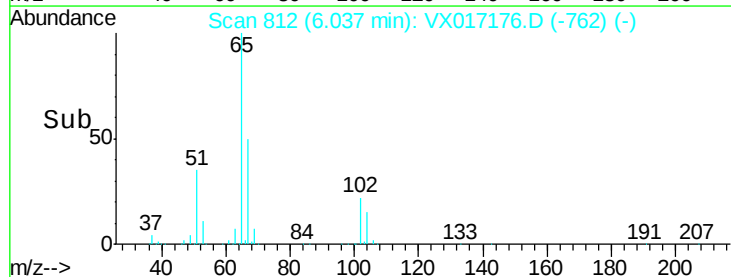
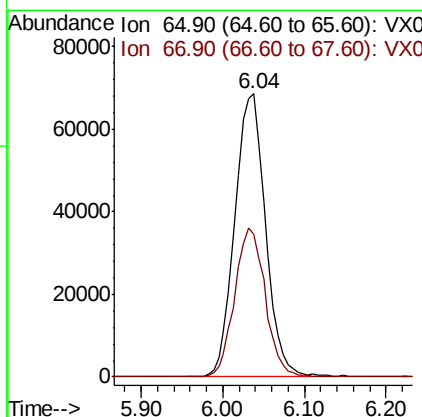
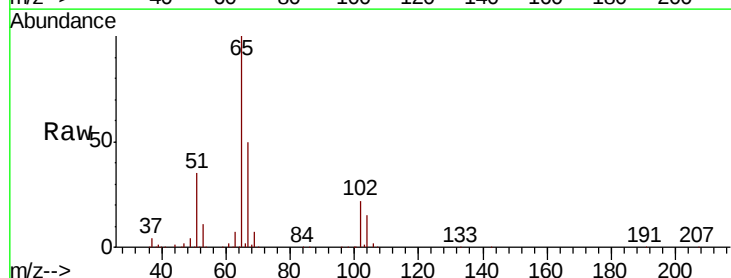
Instrument :
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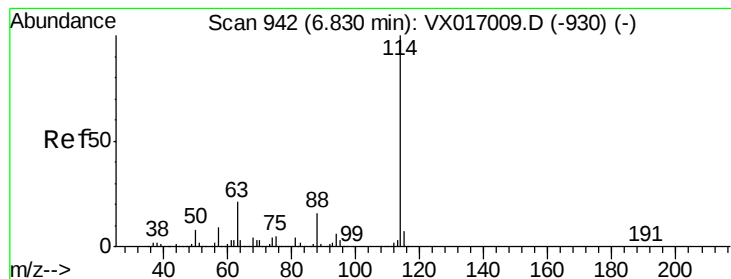
Tot Ion: 56 Resp: 5720
Ion Ratio Lower Upper
56 100
69 129.1 25.0 37.4#
84 117.9 69.1 103.7#



#33
1,2-Dichloroethane-d4
Concen: 50.835 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017176.D
Acq: 06 Jul 2020 18:19

Tgt Ion: 65 Resp: 178851
Ion Ratio Lower Upper
65 100
67 52.3 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampleId :

31S-20200629

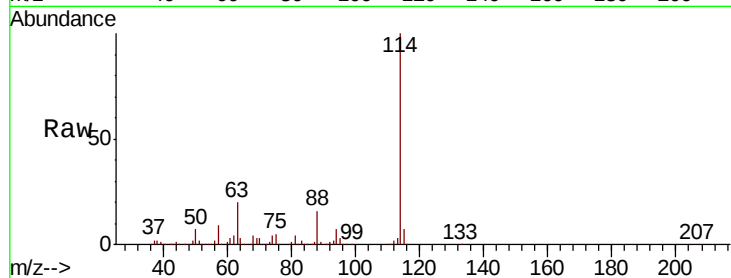
Tot Ion:114 Resp: 468152

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

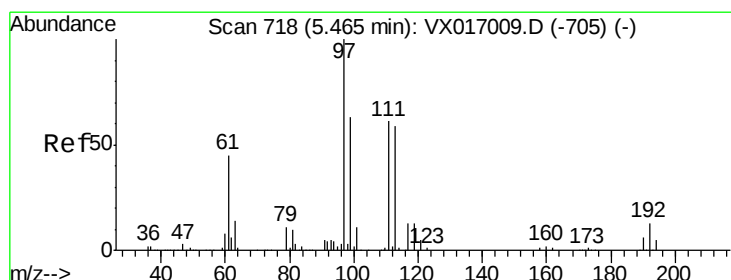
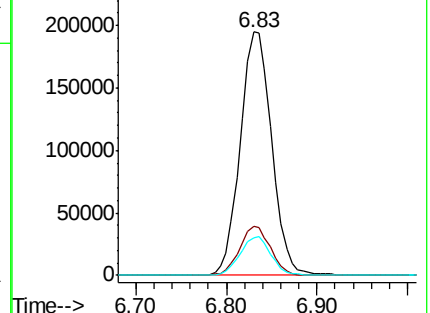
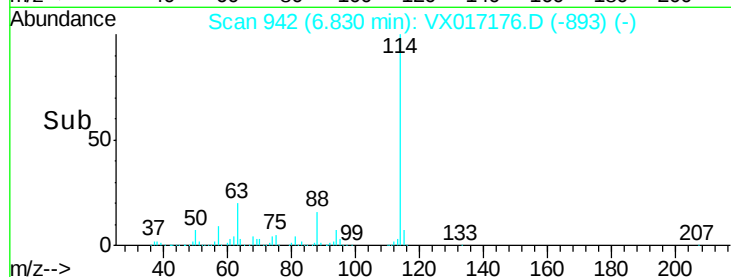
88 15.5 0.0 32.4



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: 51.380 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

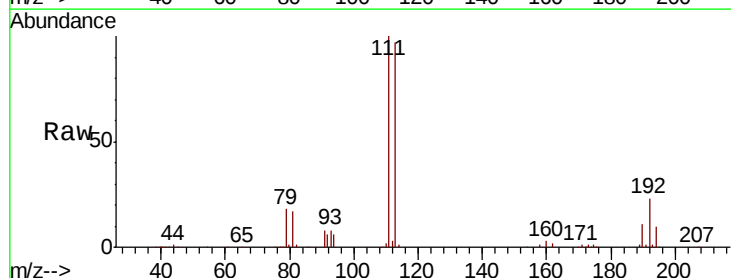
Tgt Ion:113 Resp: 152157

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

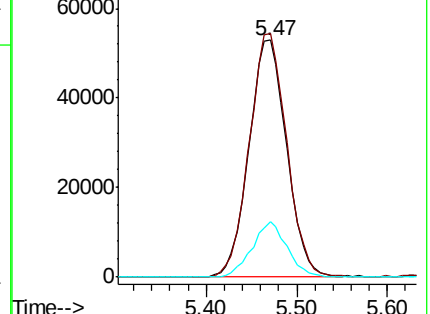
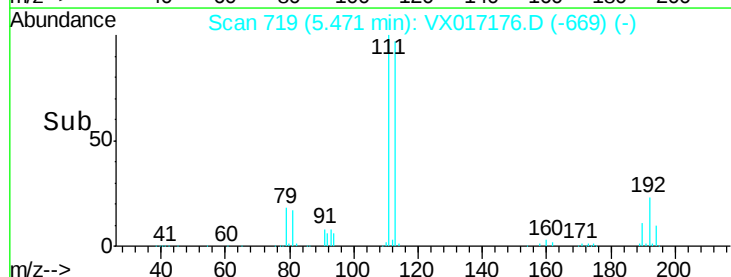
192 21.8 16.7 25.1

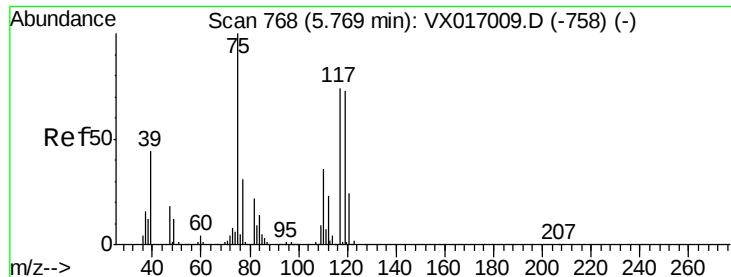


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.577 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampleId :

31S-20200629

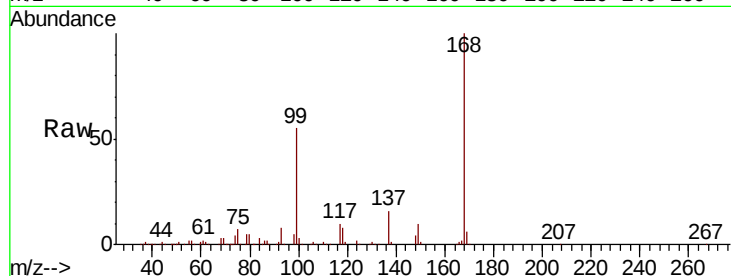
Tot Ion: 75 Resp: 20253

Ion Ratio Lower Upper

75 100

110 11.0 18.1 54.1#

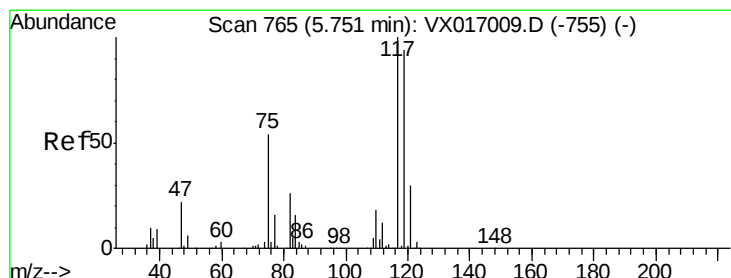
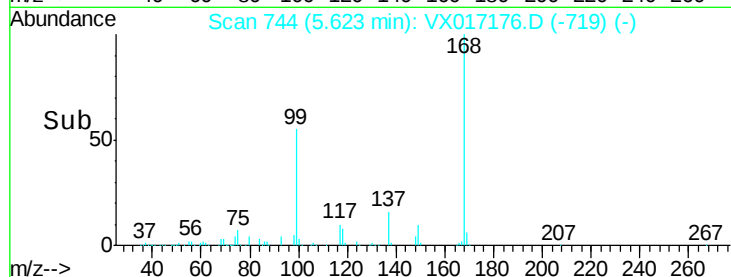
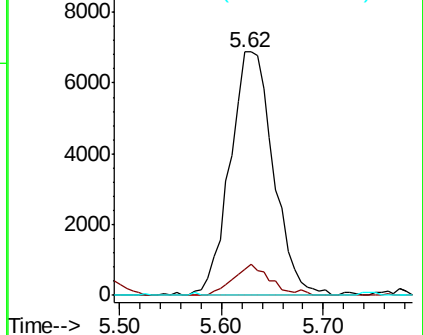
77 0.0 24.6 37.0#



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: 5.778 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

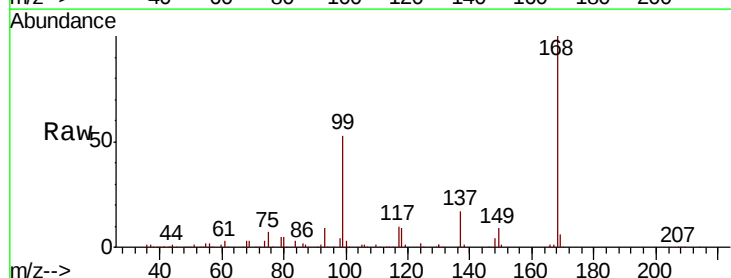
Tgt Ion:117 Resp: 28157

Ion Ratio Lower Upper

117 100

119 5.7 75.4 113.0#

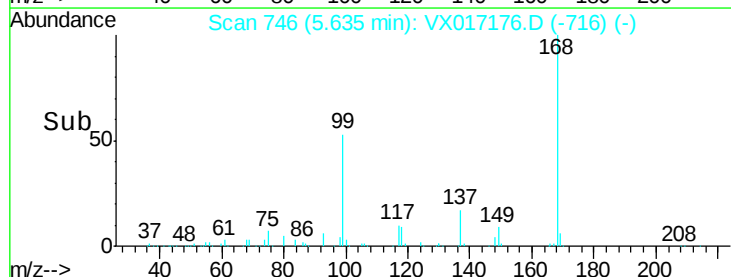
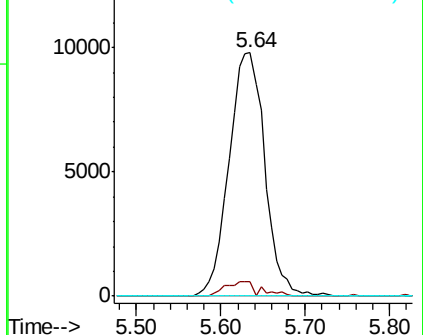
121 0.0 23.8 35.6#

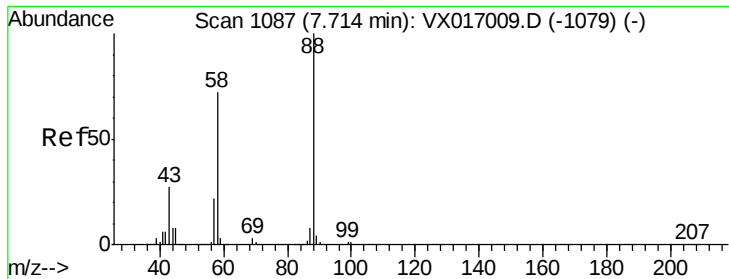


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

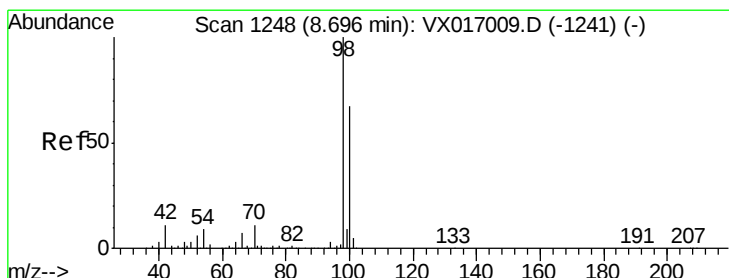
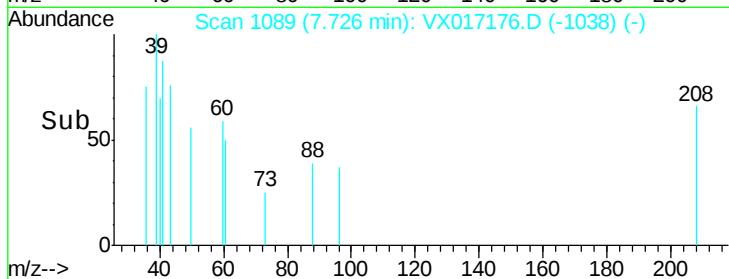
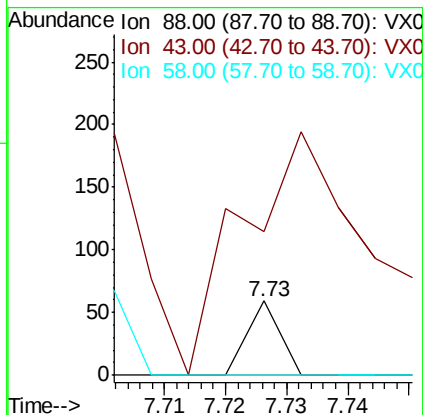
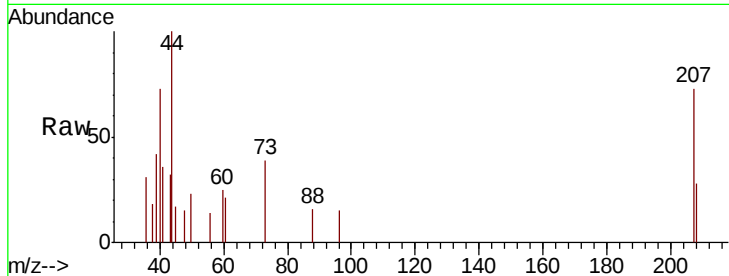




#49
1,4-Dioxane
Concen: 0.274 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX017176.D
Acq: 06 Jul 2020 18:19

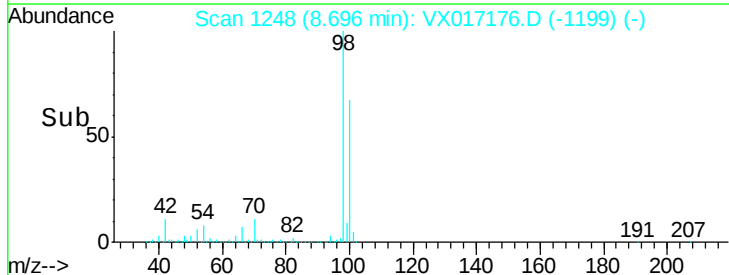
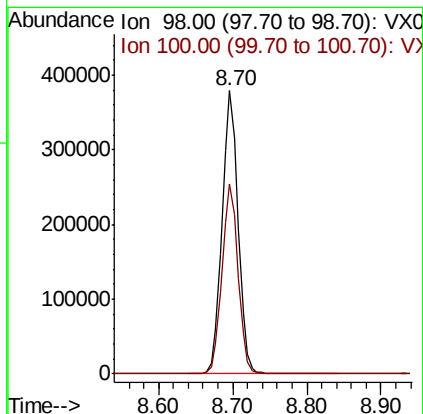
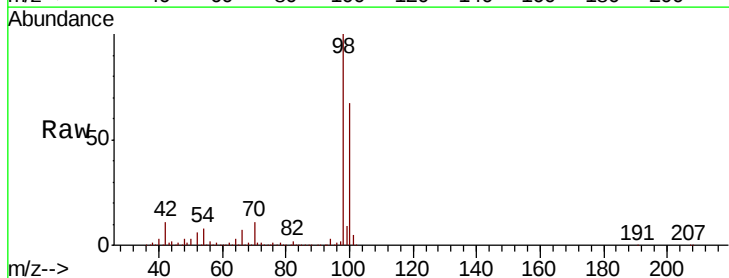
Instrument :
MSVOA_X
ClientSampleId :
31S-20200629

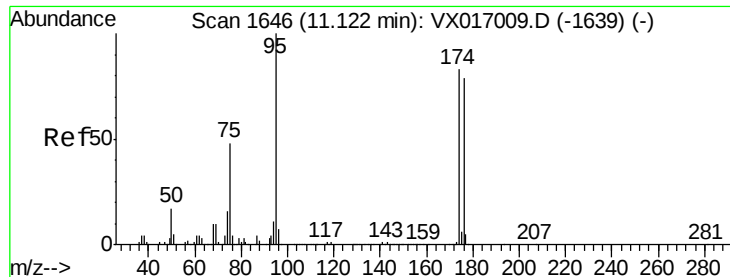
Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 1240.9 25.8 38.8#
58 0.0 54.8 82.2#



#50
Toluene-d8
Concen: 51.848 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017176.D
Acq: 06 Jul 2020 18:19

Tgt Ion: 98 Resp: 567768
Ion Ratio Lower Upper
98 100
100 66.9 53.8 80.6





#62

4-Bromofluorobenzene

Concen: 57.289 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampleId :

31S-20200629

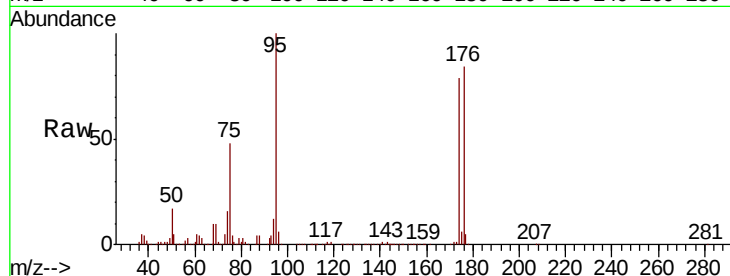
Tot Ion: 95 Resp: 245238

Ion Ratio Lower Upper

95 100

174 81.6 0.0 164.0

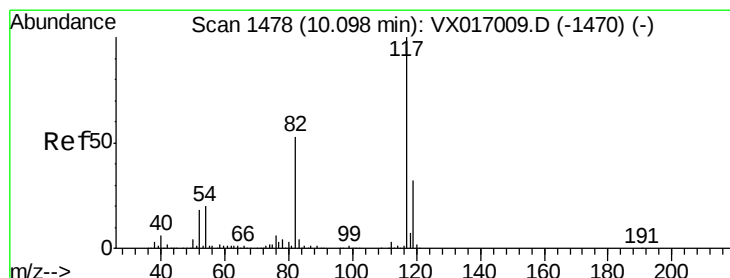
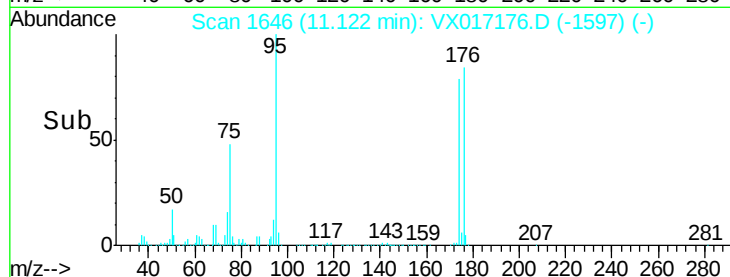
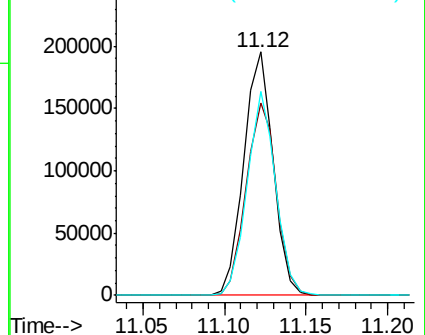
176 81.6 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

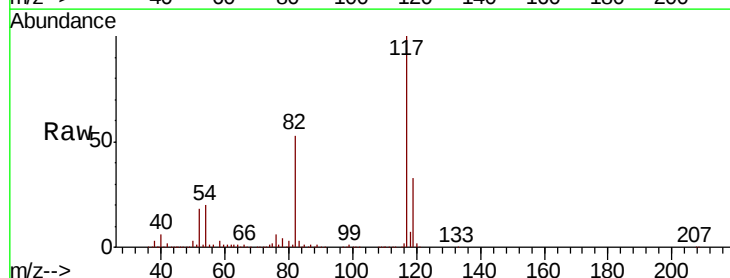
Tgt Ion: 117 Resp: 488557

Ion Ratio Lower Upper

117 100

82 53.1 42.6 63.8

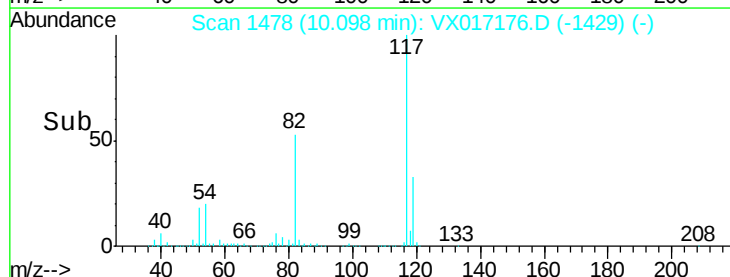
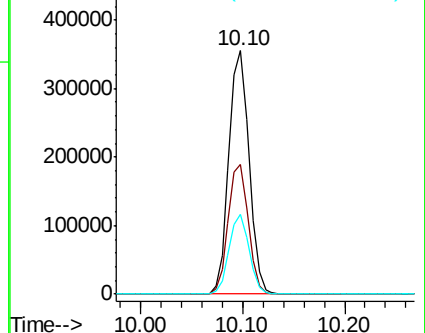
119 32.9 25.4 38.2

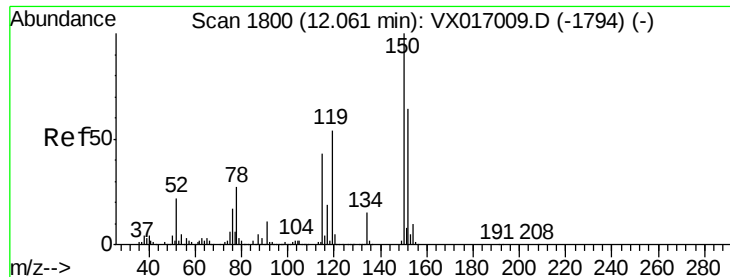


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampleId :

31S-20200629

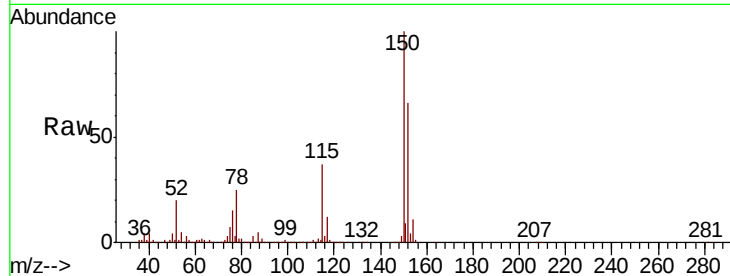
Tot Ion:152 Resp: 277016

Ion Ratio Lower Upper

152 100

115 56.5 40.9 122.7

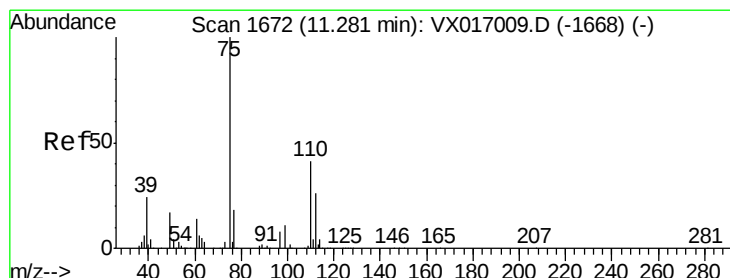
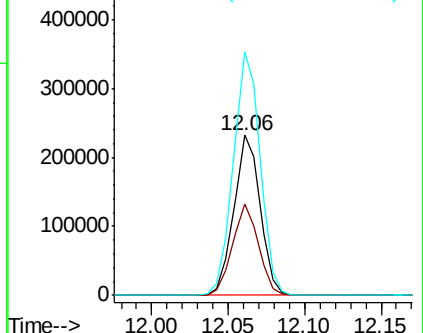
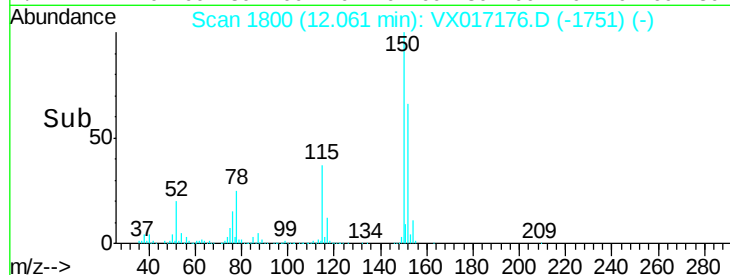
150 155.2 0.0 351.6



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: 22.067 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017176.D

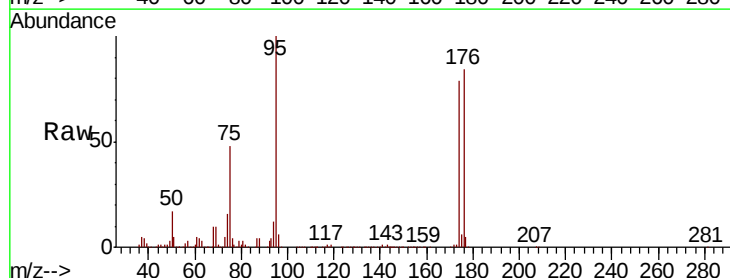
Acq: 06 Jul 2020 18:19

Tgt Ion: 75 Resp: 120209

Ion Ratio Lower Upper

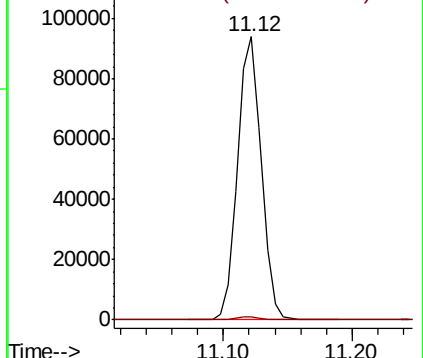
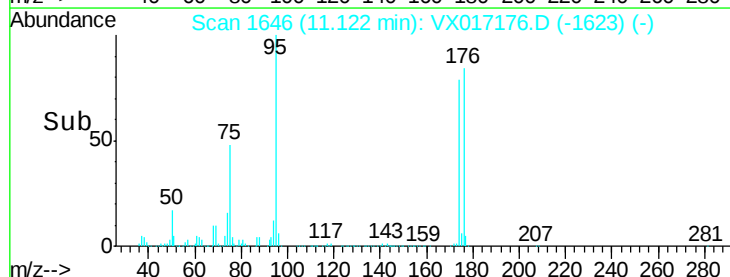
75 100

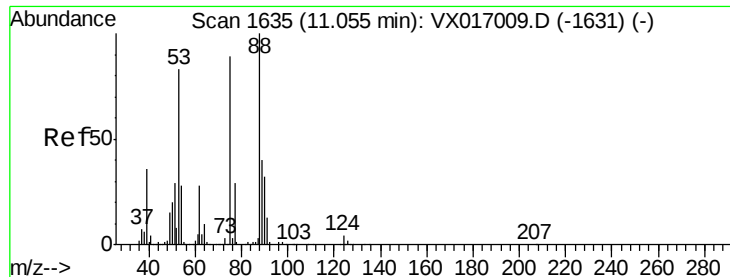
77 1.3 20.2 60.6#



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: 57.147 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

Instrument :

MSVOA_X

ClientSampleId :

31S-20200629

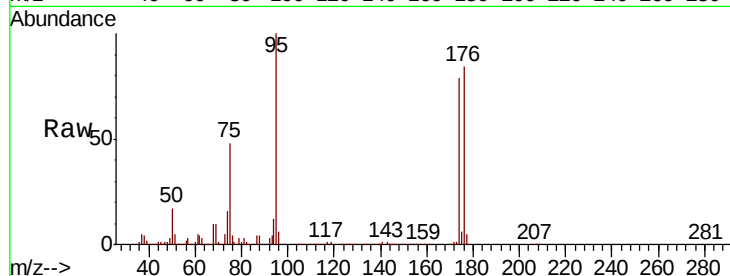
Tot Ion: 75 Resp: 120209

Ion Ratio Lower Upper

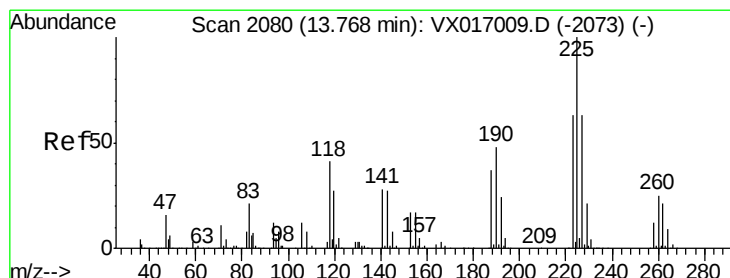
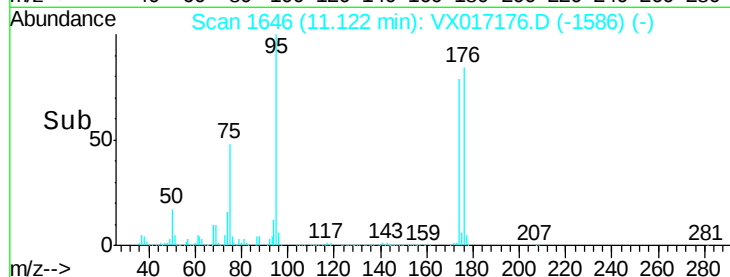
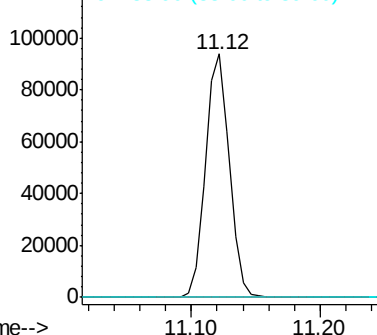
75 100

53 0.1 72.4 108.6#

89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#94

Hexachlorobutadiene

Concen: 0.888 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017176.D

Acq: 06 Jul 2020 18:19

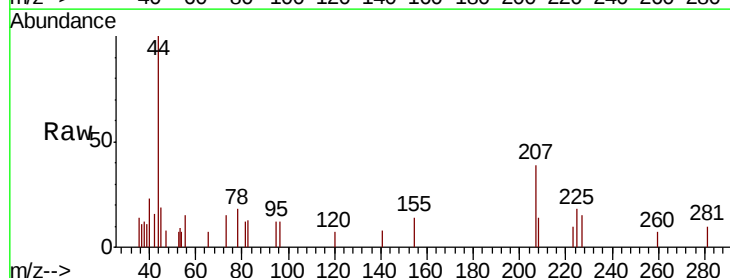
Tgt Ion: 225 Resp: 97

Ion Ratio Lower Upper

225 100

223 158.8 32.5 97.5#

227 84.5 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

