

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017766.D
 Acq On : 04 Aug 2020 13:30
 Operator : JC/SP
 Sample : L3556-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 05 01:47:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	571504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	873179	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	823493	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	404934	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	377756	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
35) Dibromofluoromethane	5.47	113	290408	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
50) Toluene-d8	8.70	98	1037315	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
62) 4-Bromofluorobenzene	11.12	95	390414	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	

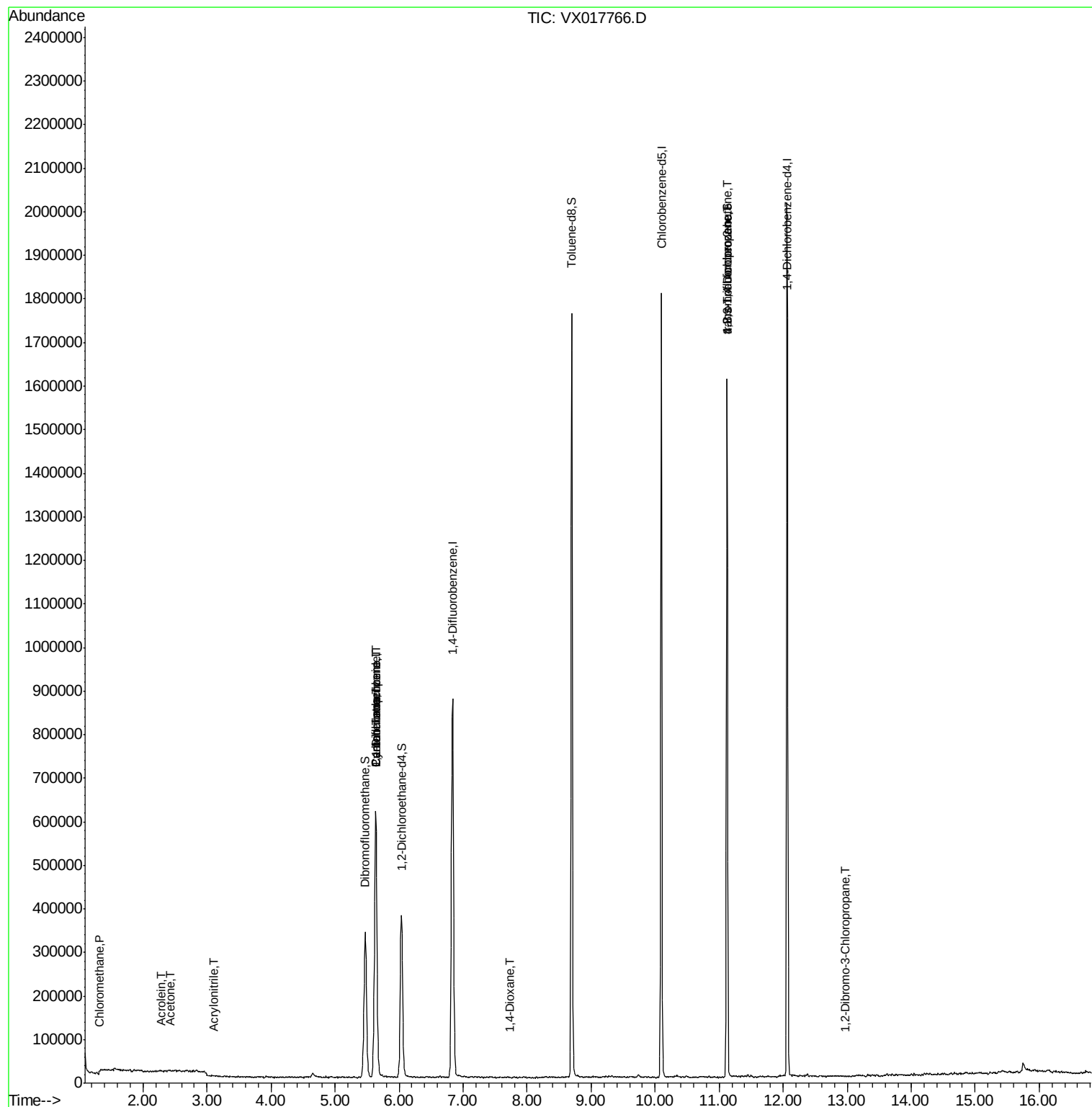
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	651	Below Cal	#	42
3) Chloromethane	1.31	50	879	0.490	ug/l #	67
5) Bromomethane	1.64	94	730	Below Cal	#	28
6) Chloroethane	1.70	64	191	Below Cal		100
8) Diethyl Ether	2.11	74	603	Below Cal		99
13) Acrolein	2.29	56	157	4.279	ug/l #	14
15) Acrylonitrile	3.11	53	1391	0.416	ug/l #	24
16) Acetone	2.42	43	2740	0.848	ug/l #	89
20) Methylene Chloride	2.84	84	1744	Below Cal	#	71
31) Cyclohexane	5.63	56	11554	1.276	ug/l #	3
36) 1,1-Dichloropropene	5.63	75	43498	5.194	ug/l #	51
38) Carbon Tetrachloride	5.64	117	58771	5.779	ug/l #	18
49) 1,4-Dioxane	7.73	88	116	0.807	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	199664	23.970	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	199664	60.400	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	101	2.616	ug/l #	1

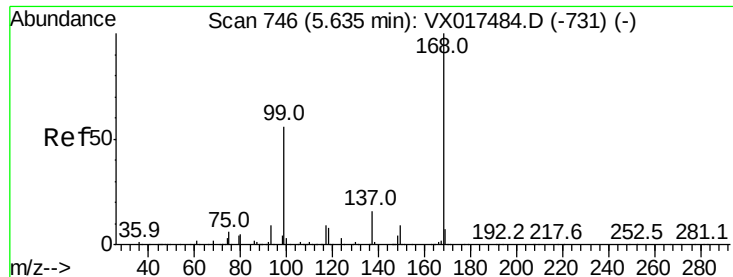
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017766.D

Acq: 04 Aug 2020 13:30

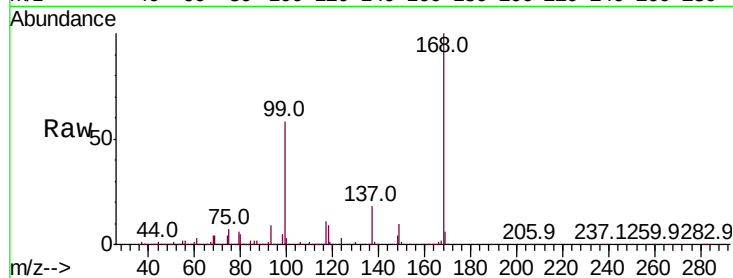
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 571504

Ion Ratio Lower Upper

168 100

99 58.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

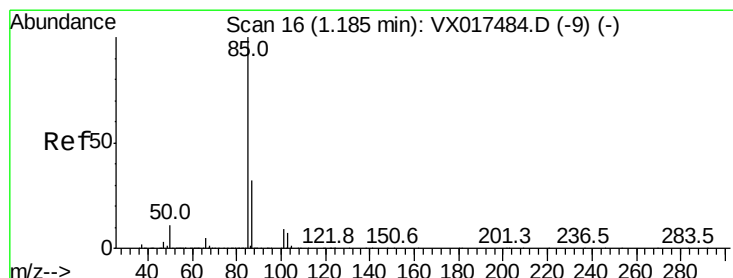
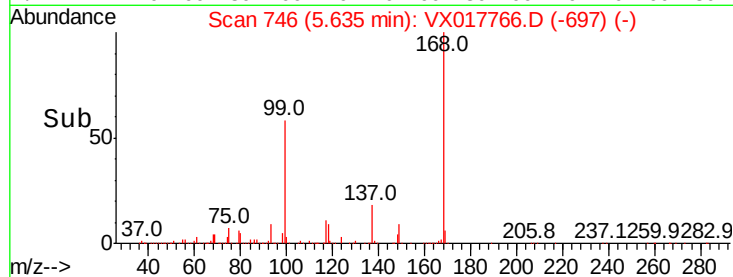
100000

50000

0

5.50 5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017766.D

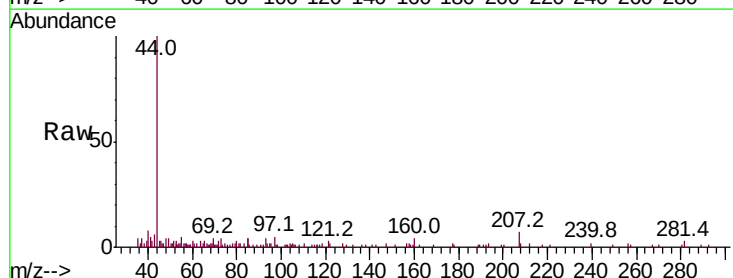
Acq: 04 Aug 2020 13:30

Tgt Ion: 85 Resp: 651

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

600

500

400

300

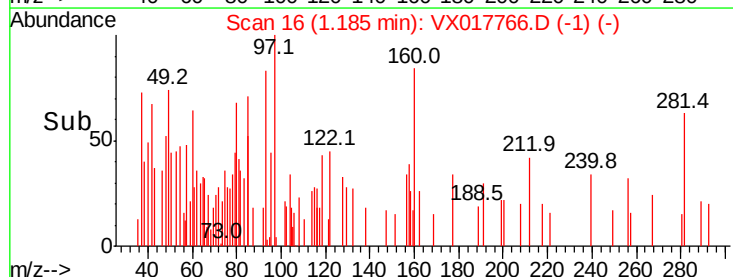
200

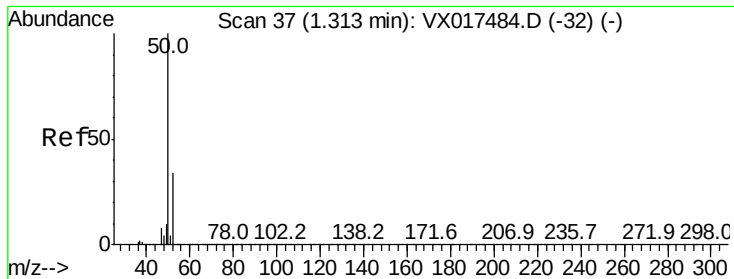
100

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 0.490 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Instrument :

MSVOA_X

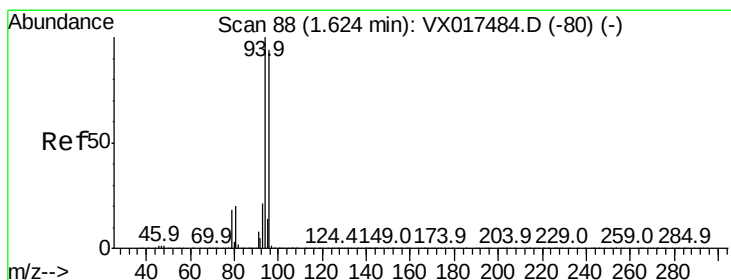
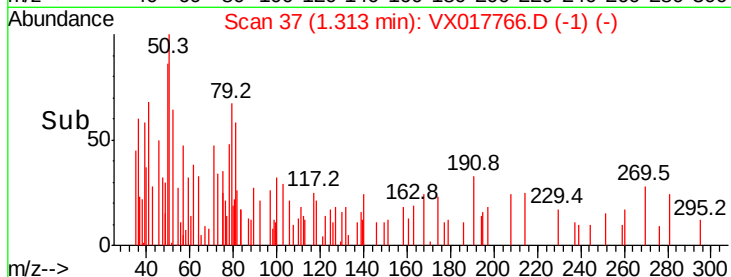
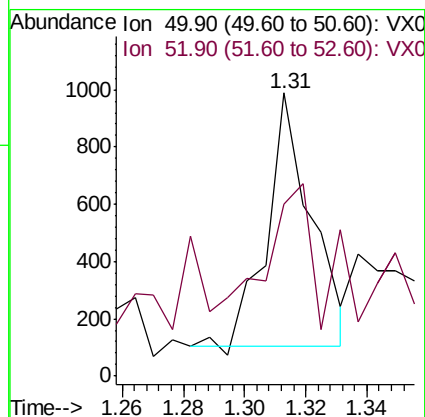
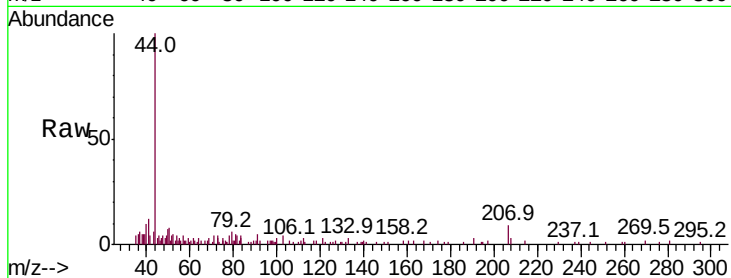
ClientSampled :

Tot Ion: 50 Resp: 879

Ion Ratio Lower Upper

50 100

52 13.9 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017766.D

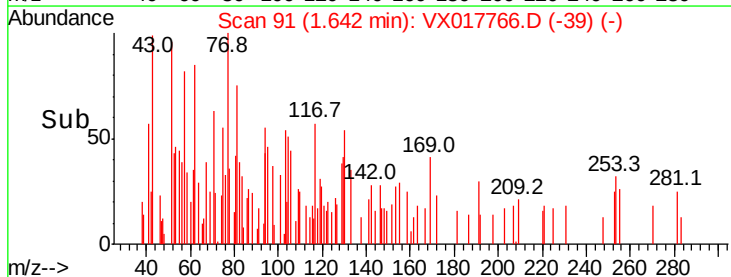
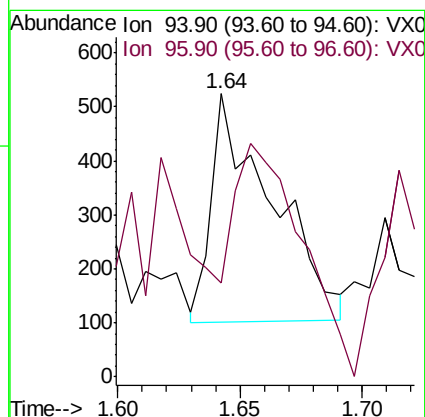
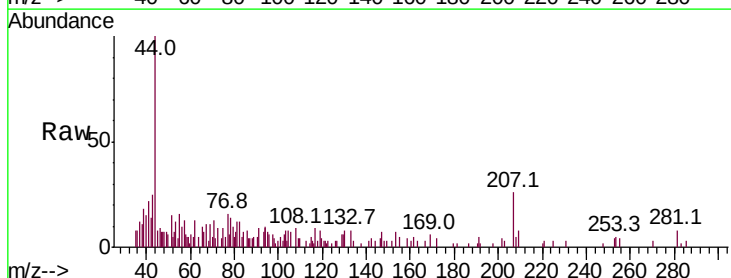
Acq: 04 Aug 2020 13:30

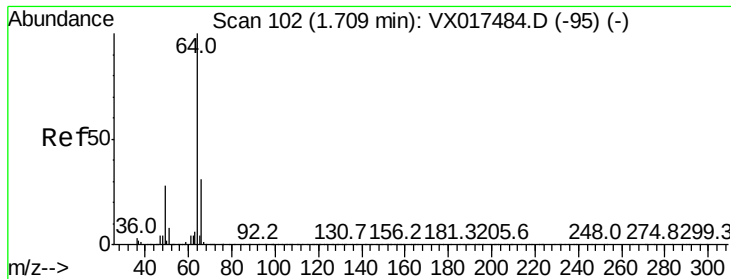
Tgt Ion: 94 Resp: 730

Ion Ratio Lower Upper

94 100

96 23.8 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Instrument :

MSVOA_X

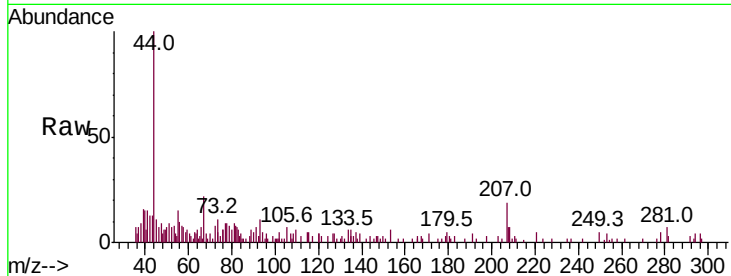
ClientSampled :

Tot Ion: 64 Resp: 191

Ion Ratio Lower Upper

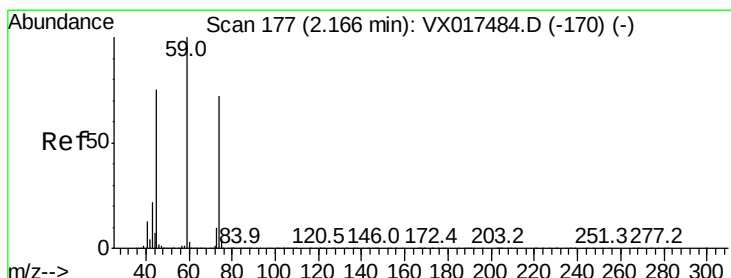
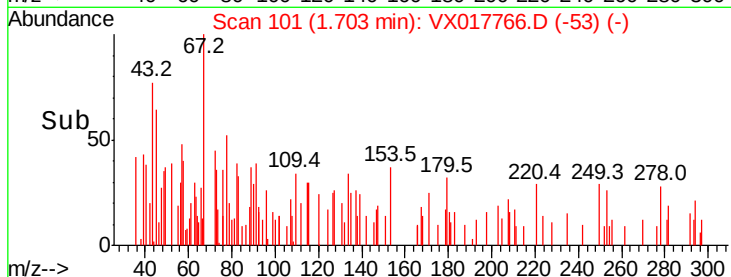
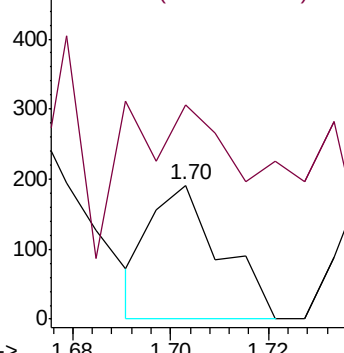
64 100

66 31.1 24.9 37.3



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.11 min Scan# 168

Delta R.T. -0.05 min

Lab File: VX017766.D

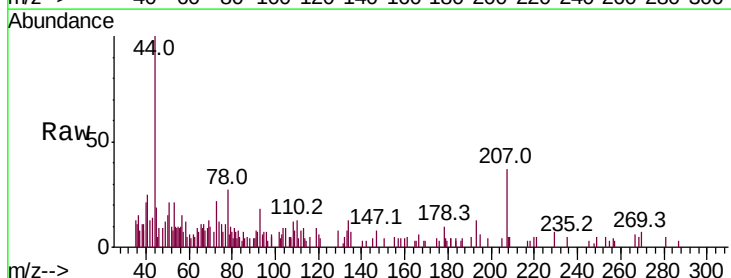
Acq: 04 Aug 2020 13:30

Tgt Ion: 74 Resp: 603

Ion Ratio Lower Upper

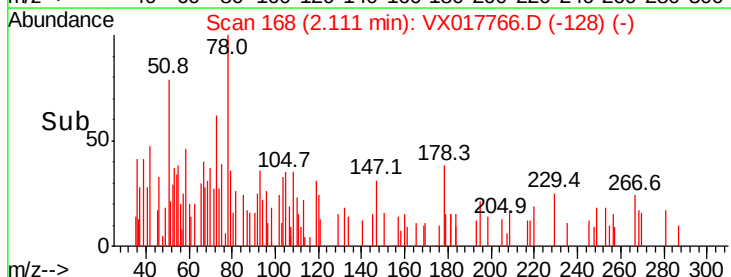
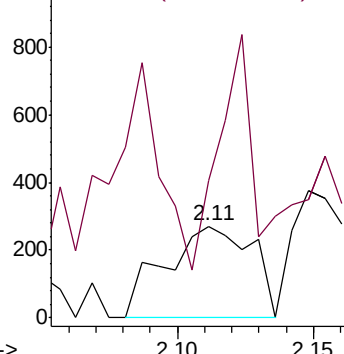
74 100

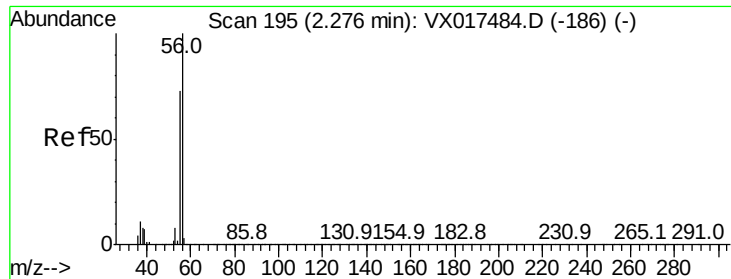
45 101.0 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#13

Acrolein

Concen: 4.279 ug/l

RT: 2.29 min Scan# 198

Delta R.T. 0.02 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

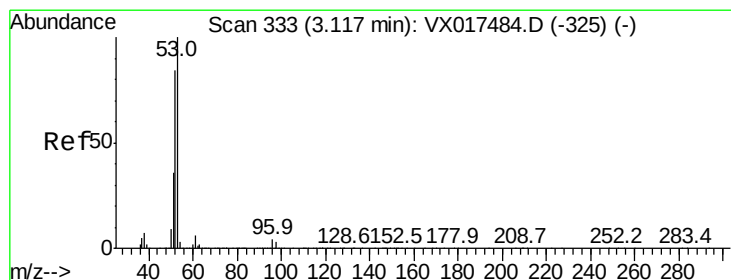
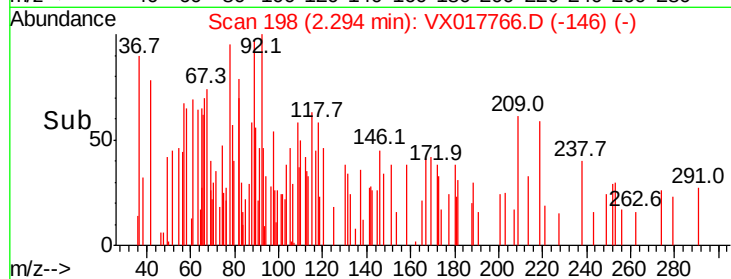
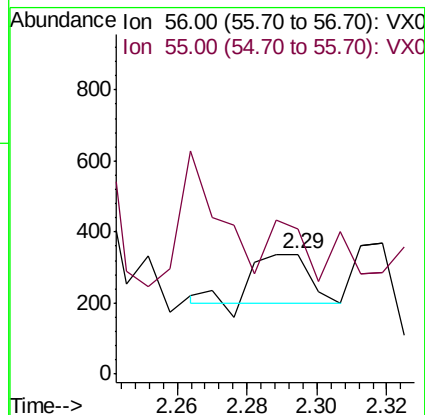
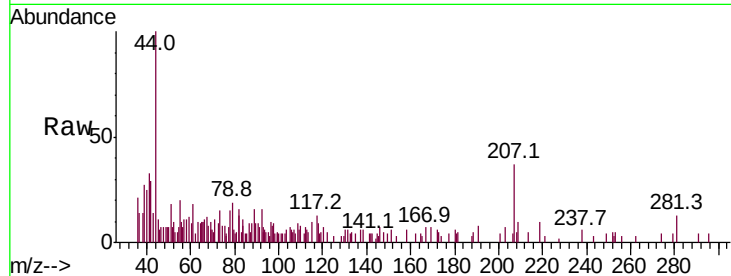
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 157

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.2#



#15

Acrylonitrile

Concen: 0.416 ug/l

RT: 3.11 min Scan# 331

Delta R.T. -0.01 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

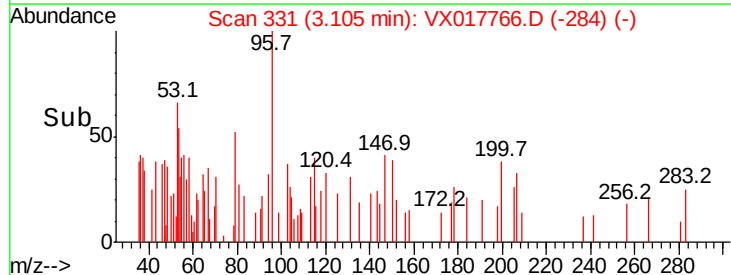
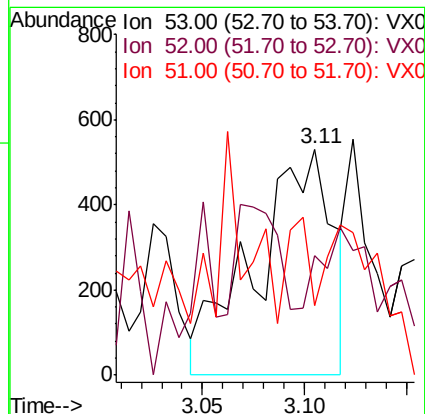
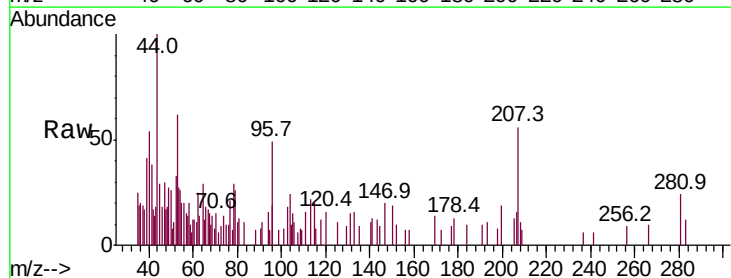
Tgt Ion: 53 Resp: 1391

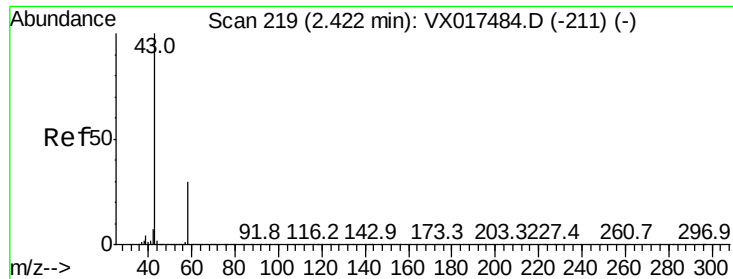
Ion Ratio Lower Upper

53 100

52 0.0 66.6 99.8#

51 14.0 29.4 44.2#

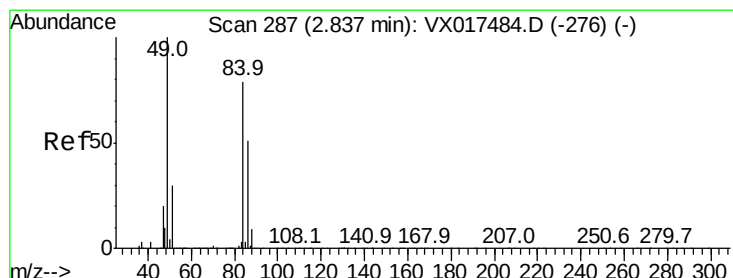
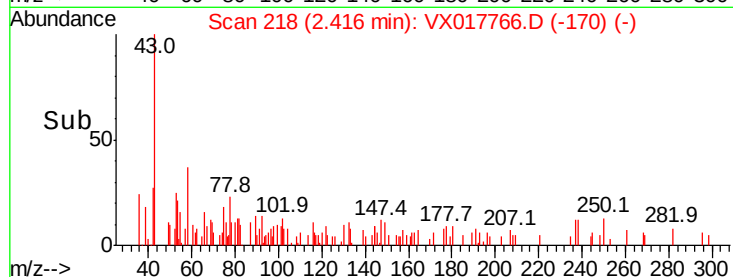
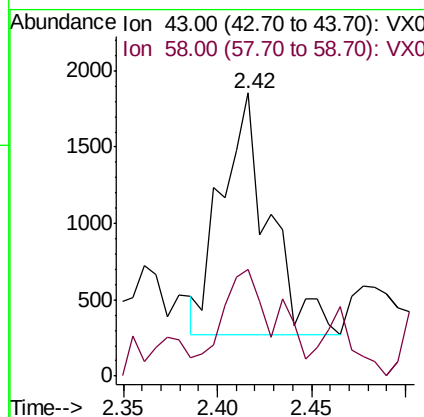
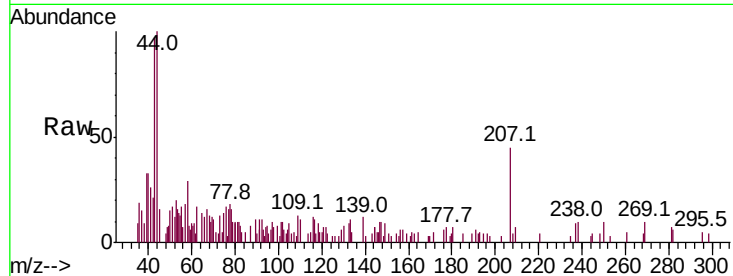




#16
Acetone
Concen: 0.848 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017766.D
Acq: 04 Aug 2020 13:30

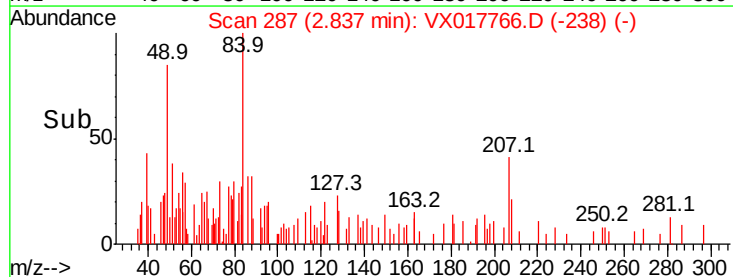
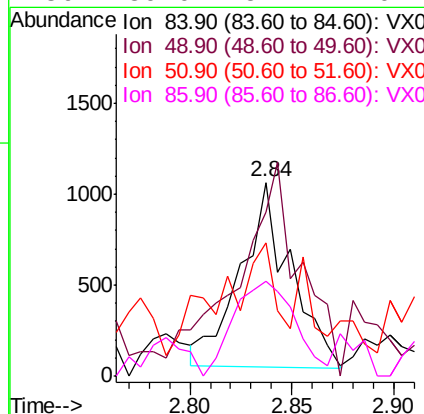
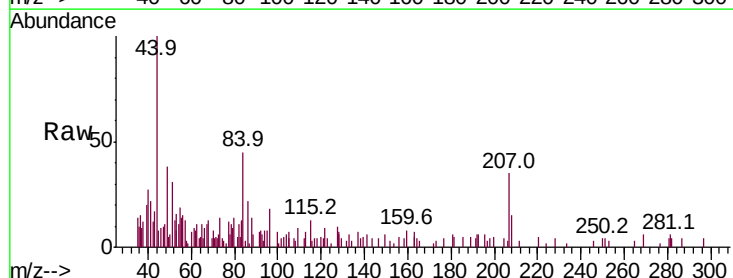
Instrument :
MSVOA_X
ClientSampled :

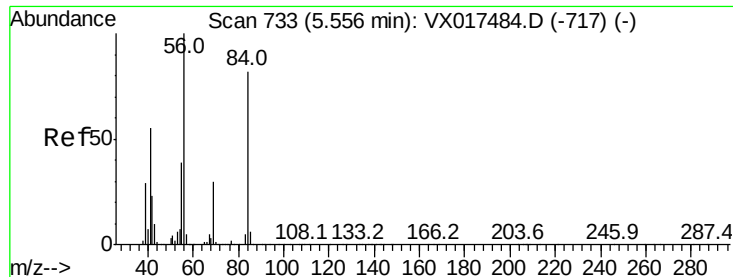
Tot Ion: 43 Resp: 2740
Ion Ratio Lower Upper
43 100
58 36.5 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017766.D
Acq: 04 Aug 2020 13:30

Tgt Ion: 84 Resp: 1744
Ion Ratio Lower Upper
84 100
49 89.8 100.3 150.5#
51 29.4 30.5 45.7#
86 39.0 51.1 76.7#

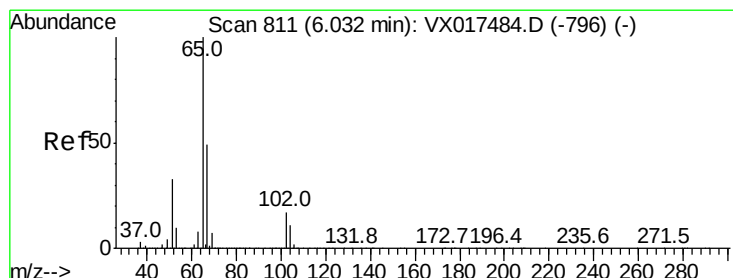
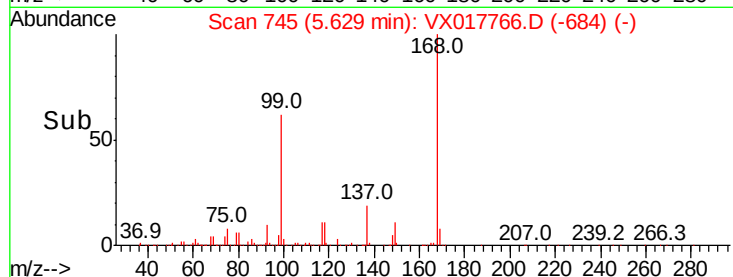
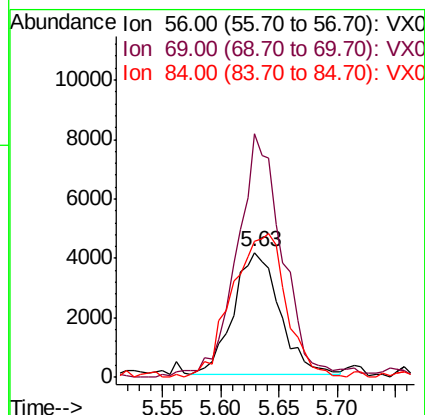
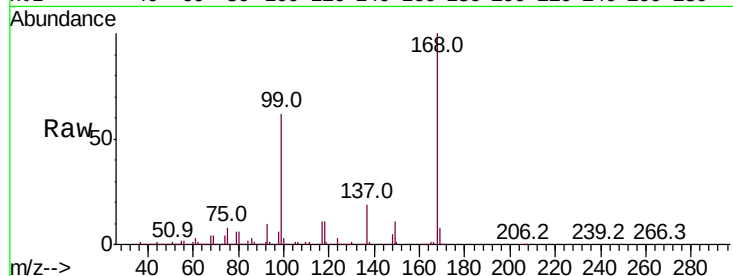




#31
Cyclohexane
Concen: 1.276 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.07 min
Lab File: VX017766.D
Acq: 04 Aug 2020 13:30

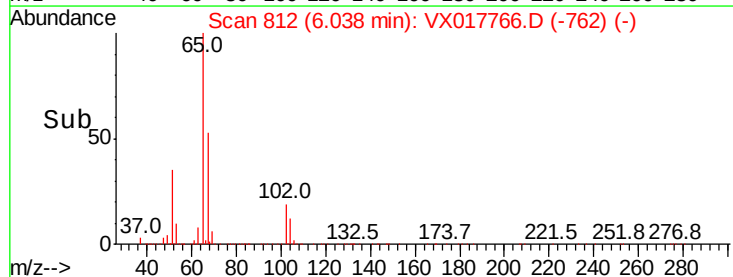
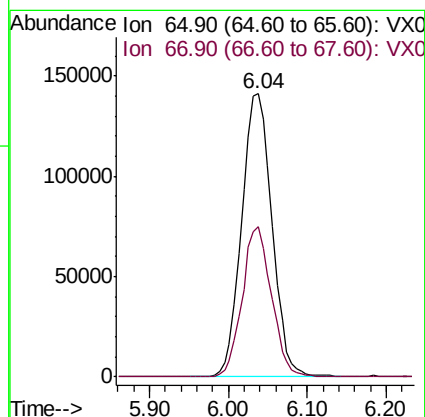
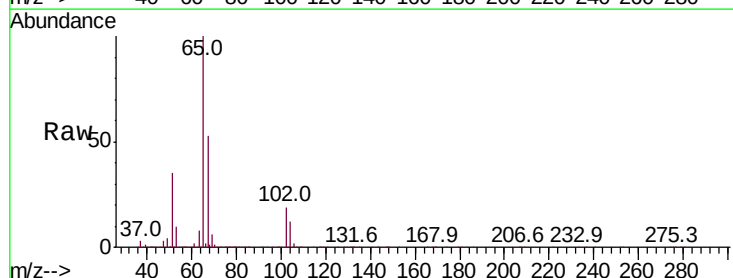
Instrument :
MSVOA_X
ClientSampled :

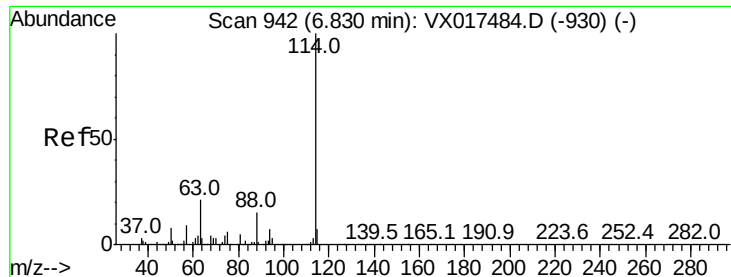
Tot Ion: 56 Resp: 11554
Ion Ratio Lower Upper
56 100
69 194.2 24.2 36.4#
84 110.1 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 51.457 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017766.D
Acq: 04 Aug 2020 13:30

Tgt Ion: 65 Resp: 377756
Ion Ratio Lower Upper
65 100
67 51.3 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Instrument :

MSVOA_X

ClientSampled :

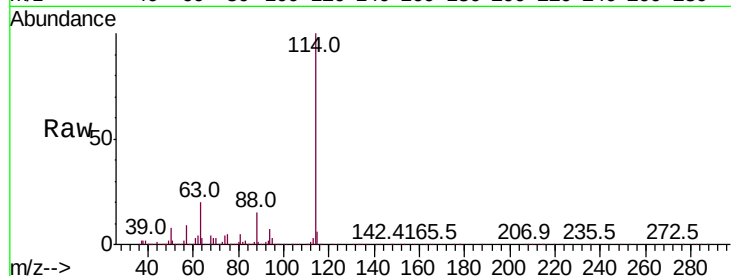
Tot Ion:114 Resp: 873179

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.6

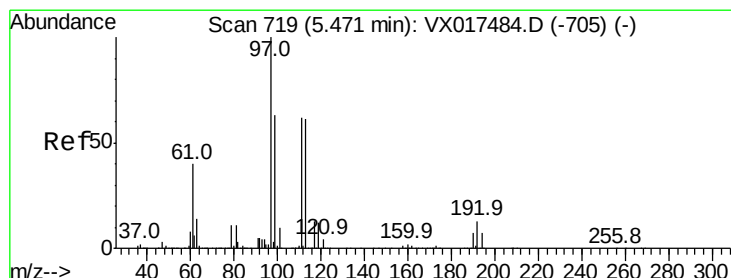
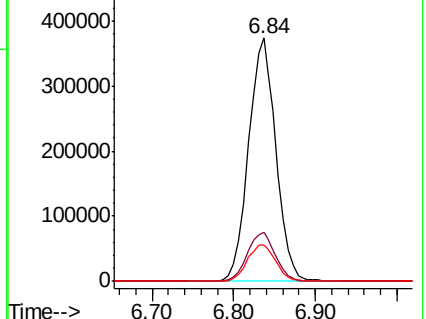
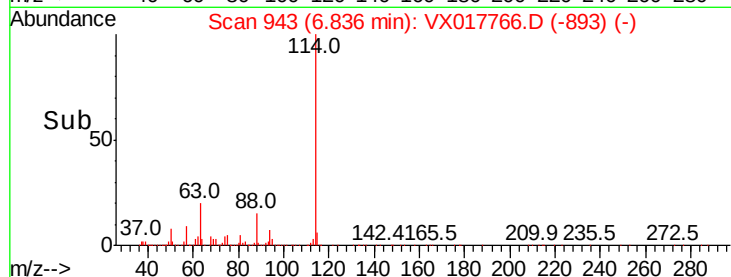
88 15.1 0.0 33.4



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: 49.729 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

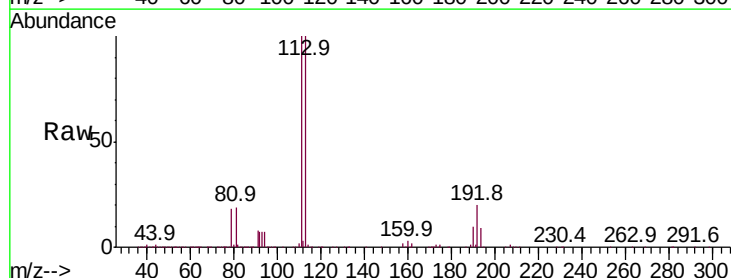
Tgt Ion:113 Resp: 290408

Ion Ratio Lower Upper

113 100

111 101.8 80.7 121.1

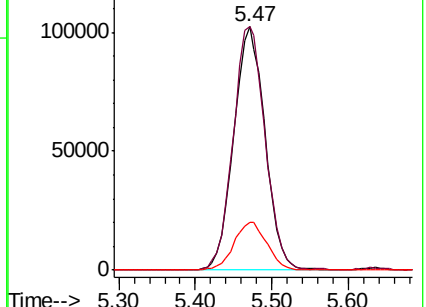
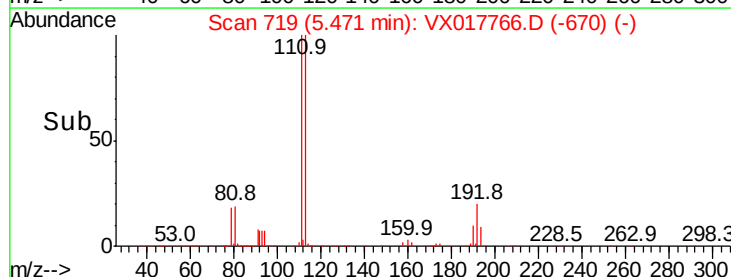
192 20.6 16.9 25.3

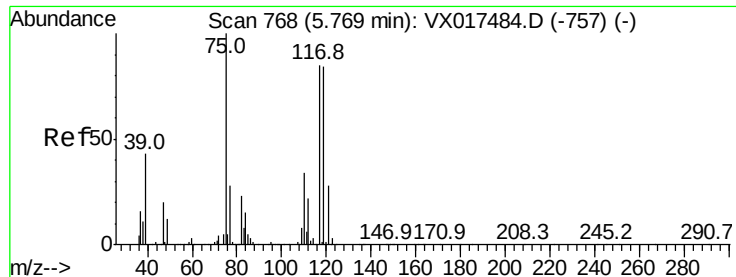


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.194 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Instrument :

MSVOA_X

ClientSampleId :

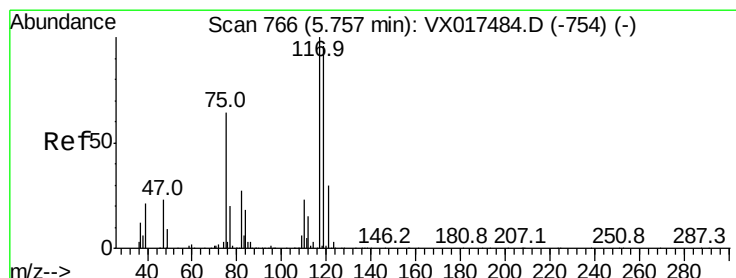
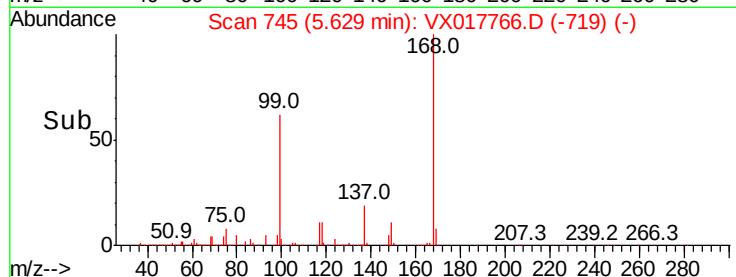
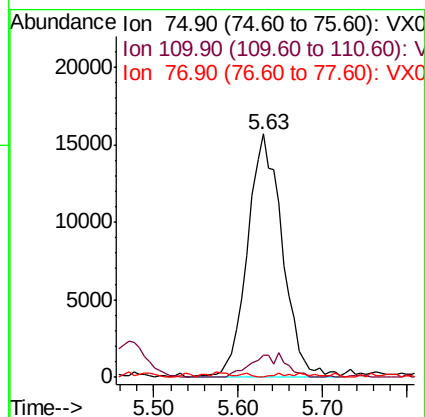
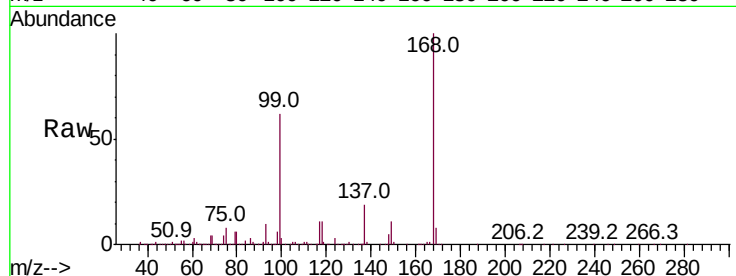
Tot Ion: 75 Resp: 43498

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.3#

77 0.5 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.779 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

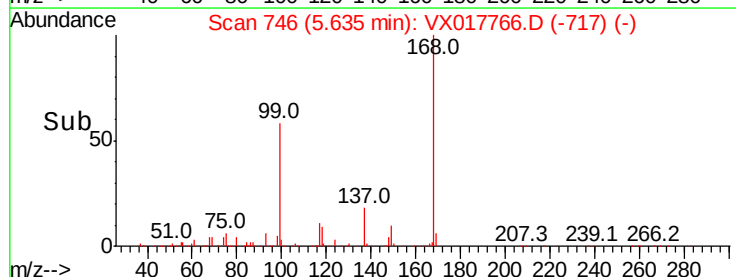
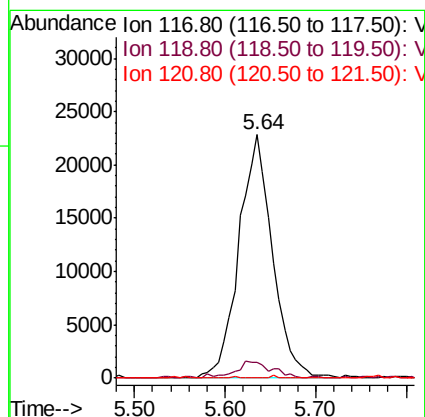
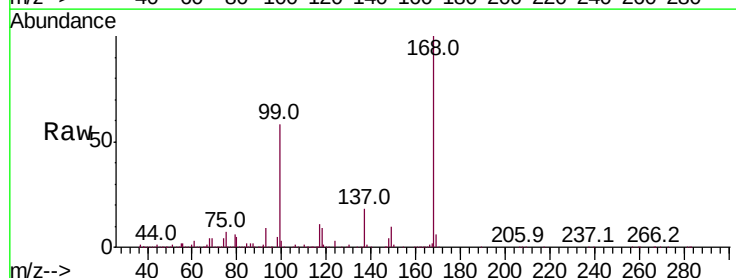
Tgt Ion: 117 Resp: 58771

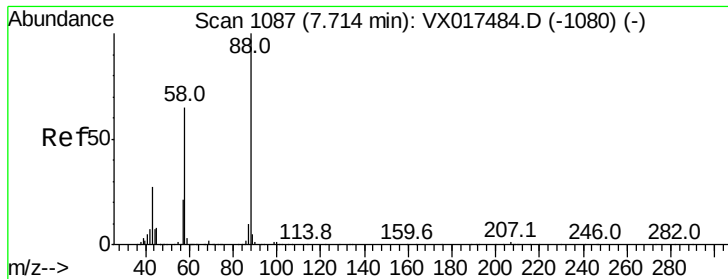
Ion Ratio Lower Upper

117 100

119 6.2 75.4 113.0#

121 0.0 24.3 36.5#





#49

1,4-Dioxane

Concen: 0.807 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

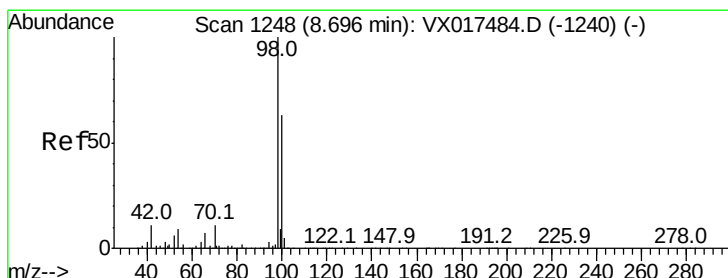
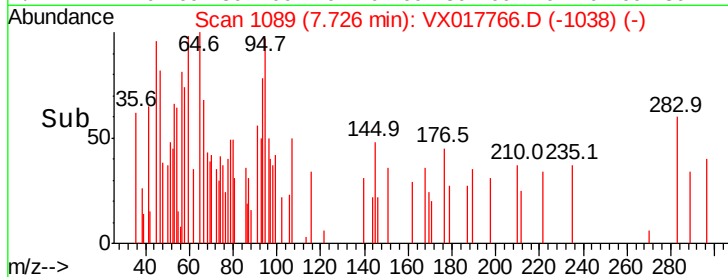
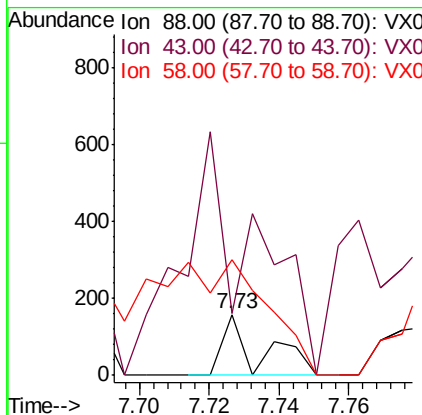
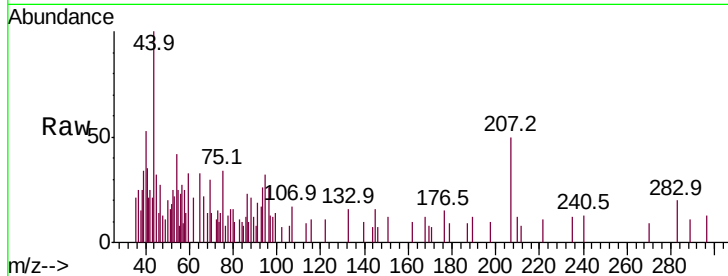
Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 116

Ion	Ratio	Lower	Upper
88	100		
43	789.7	27.8	41.6#
58	557.8	58.3	87.5#



#50

Toluene-d8

Concen: 49.238 ug/l

RT: 8.70 min Scan# 1248

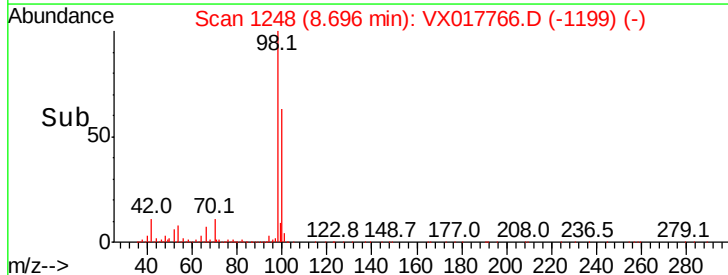
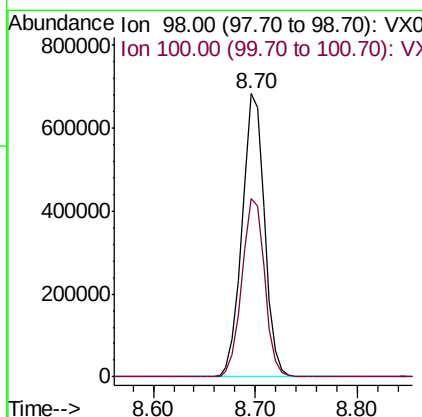
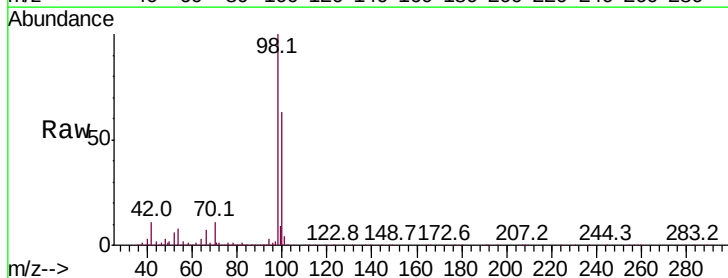
Delta R.T. 0.00 min

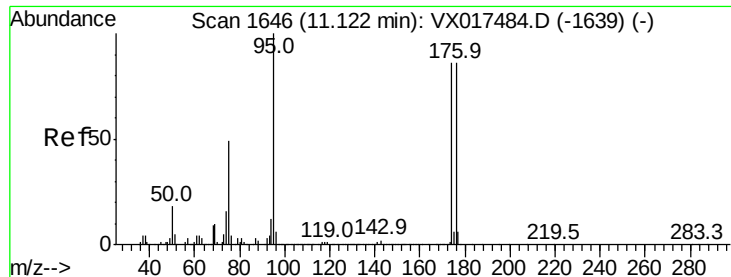
Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Tgt Ion: 98 Resp: 1037315

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.3	78.5





#62

4-Bromofluorobenzene

Concen: 46.306 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Instrument :

MSVOA_X

ClientSampleId :

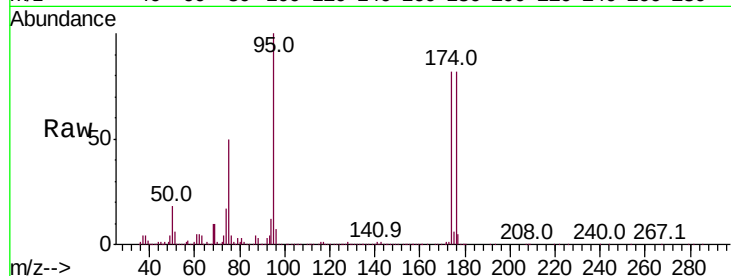
Tot Ion: 95 Resp: 390414

Ion Ratio Lower Upper

95 100

174 85.9 0.0 169.0

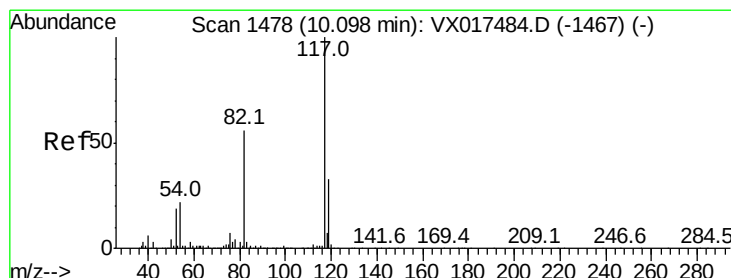
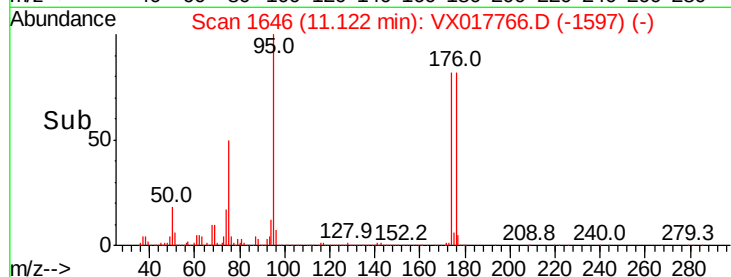
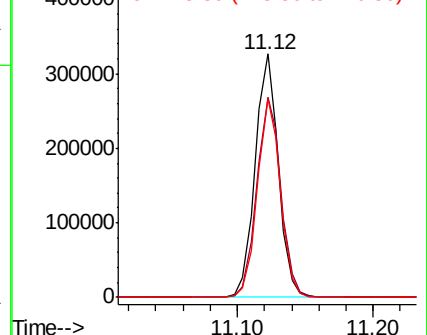
176 81.7 0.0 161.0



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: VX017766.D

Acq: 04 Aug 2020 13:30

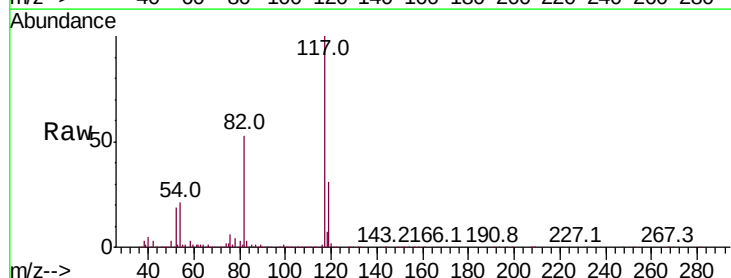
Tgt Ion: 117 Resp: 823493

Ion Ratio Lower Upper

117 100

82 52.9 44.0 66.0

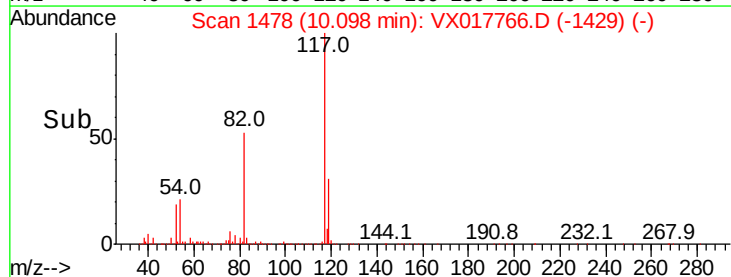
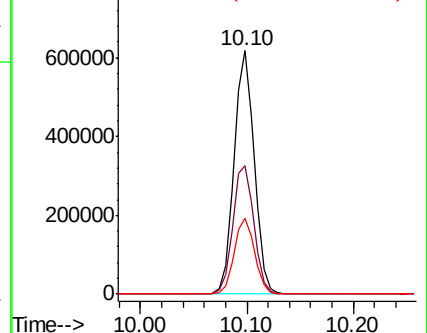
119 31.5 25.4 38.0

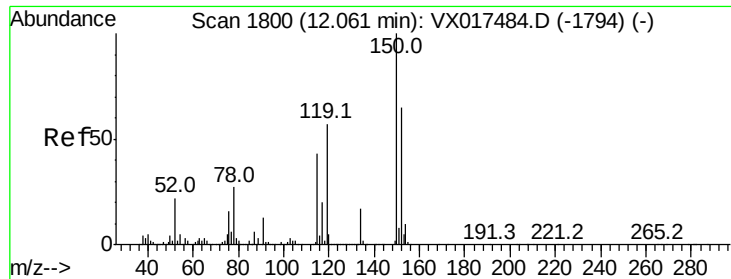


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Instrument :

MSVOA_X

ClientSampleId :

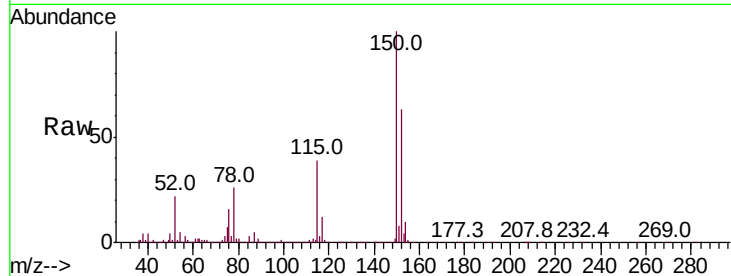
Tot Ion:152 Resp: 404934

Ion Ratio Lower Upper

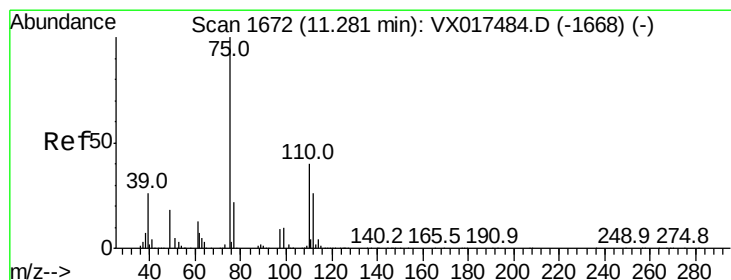
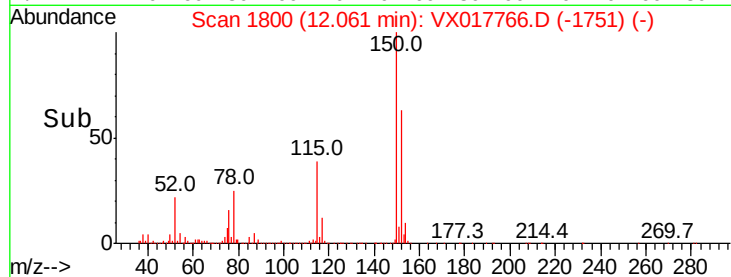
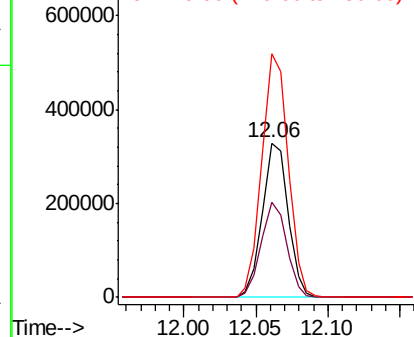
152 100

115 61.5 65.5 196.6#

150 161.1 0.0 412.6



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: 23.970 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017766.D

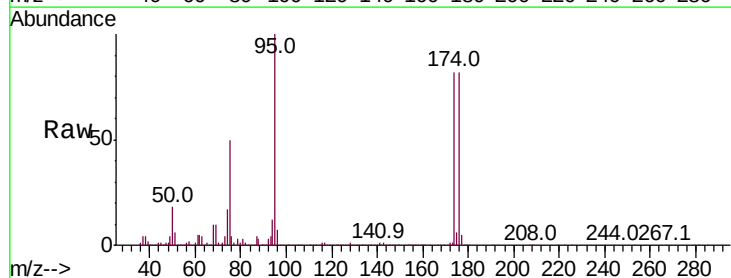
Acq: 04 Aug 2020 13:30

Tgt Ion: 75 Resp: 199664

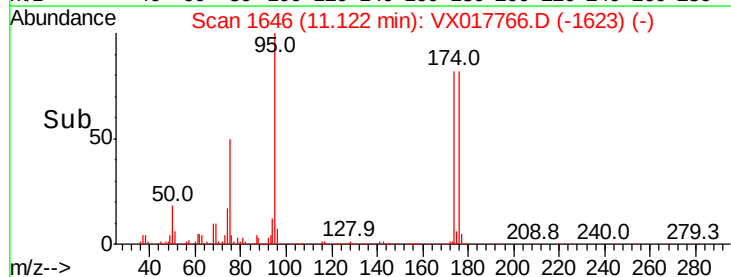
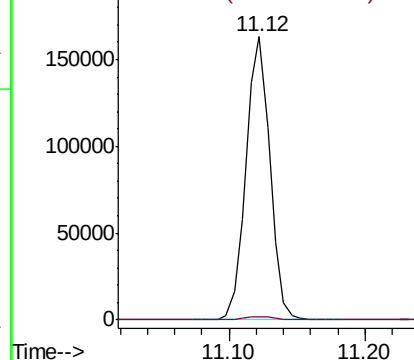
Ion Ratio Lower Upper

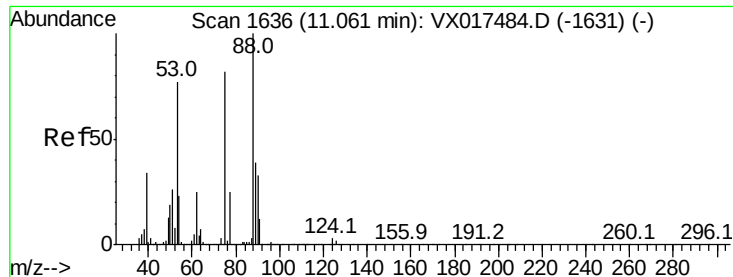
75 100

77 1.6 21.8 65.3#



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: 60.400 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

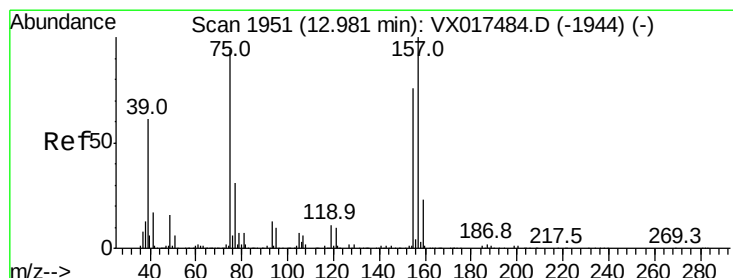
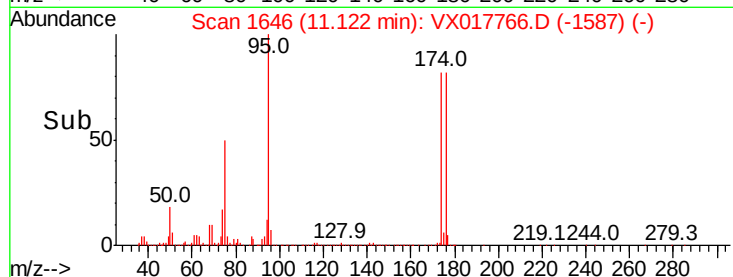
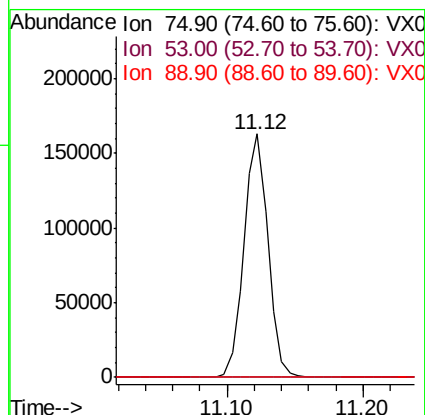
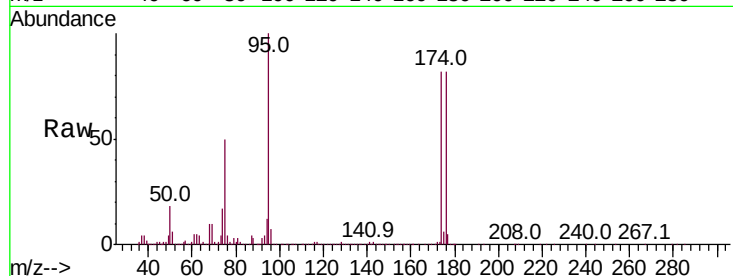
Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 199664

Ion	Ratio	Lower	Upper
75	100		
53	0.1	75.9	113.9#
89	0.0	37.8	56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.616 ug/l

RT: 12.98 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VX017766.D

Acq: 04 Aug 2020 13:30

Tgt Ion: 75 Resp: 101

Ion	Ratio	Lower	Upper
75	100		
155	0.0	42.3	126.8#
157	0.0	54.3	162.9#

