

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017759.D
 Acq On : 04 Aug 2020 10:32
 Operator : JC/SP
 Sample : VX0804WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 05 01:44:23 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	5.63	168	597191	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	891931	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	818939	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	398602	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	395522	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	
35) Dibromofluoromethane	5.46	113	307292	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
50) Toluene-d8	8.70	98	1084690	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	
62) 4-Bromofluorobenzene	11.12	95	392766	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	

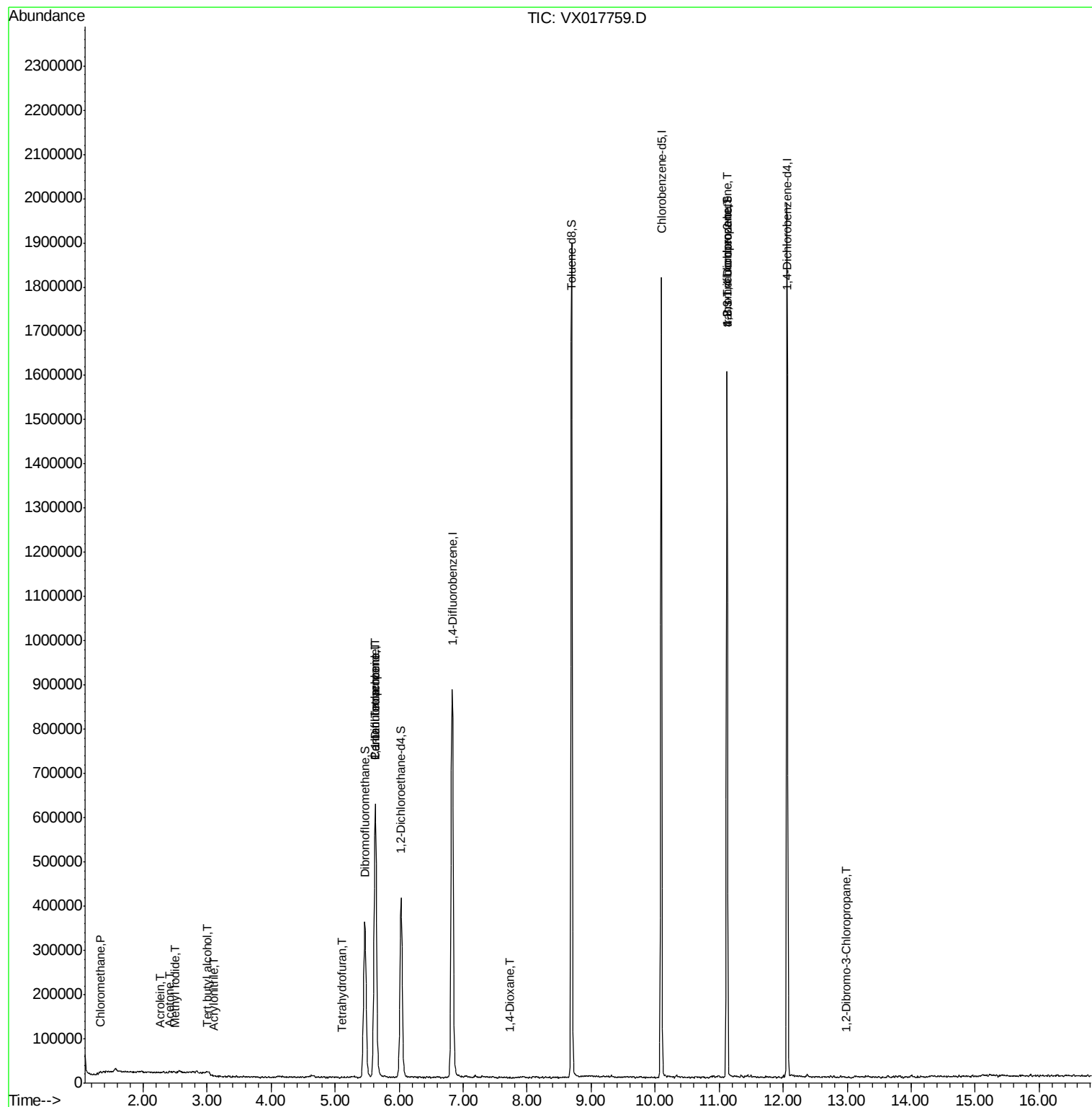
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	523	Below Cal		92
3) Chloromethane	1.33	50	1155	0.522 ug/l #		51
5) Bromomethane	1.64	94	1189	Below Cal		92
6) Chloroethane	1.71	64	164	Below Cal #		1
8) Diethyl Ether	2.11	74	359	Below Cal		66
10) Methyl Iodide	2.51	142	1821	0.219 ug/l #		66
11) Tert butyl alcohol	3.00	59	1105	0.683 ug/l #		72
13) Acrolein	2.26	56	304	4.391 ug/l #		1
15) Acrylonitrile	3.10	53	806	0.231 ug/l #		89
16) Acetone	2.41	43	1480	0.438 ug/l #		89
20) Methylene Chloride	2.84	84	3110	Below Cal #		89
29) Tetrahydrofuran	5.10	42	714	0.240 ug/l #		49
36) 1,1-Dichloropropene	5.63	75	44346	5.184 ug/l #		53
38) Carbon Tetrachloride	5.62	117	59718	5.749 ug/l #		19
49) 1,4-Dioxane	7.73	88	211	1.438 ug/l #		53
76) 1,2,3-Trichloropropane	11.12	75	202249	24.666 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	202249	62.153 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	185	2.649 ug/l #		21

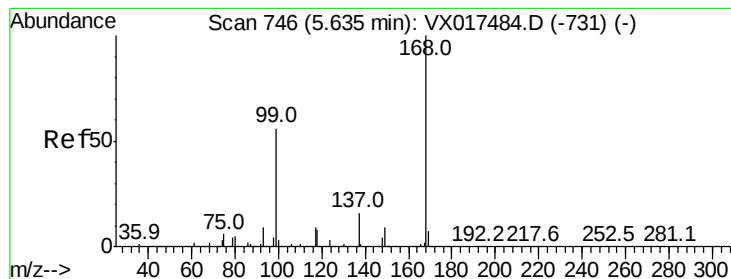
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

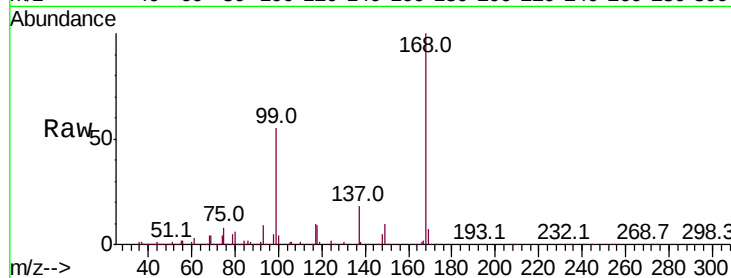
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 597191

Ion Ratio Lower Upper

168 100

99 55.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

200000

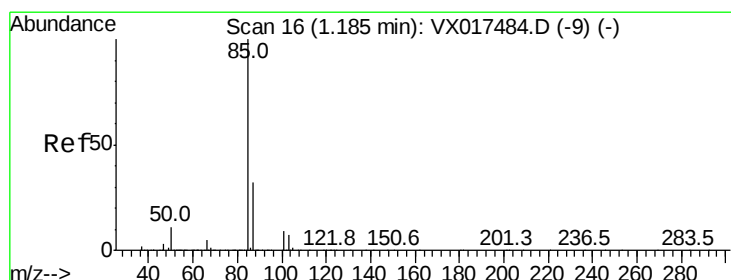
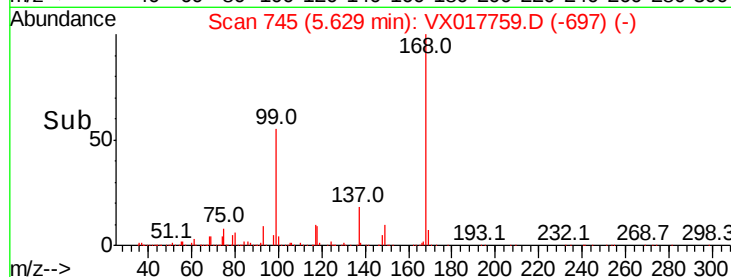
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 18

Delta R.T. 0.01 min

Lab File: VX017759.D

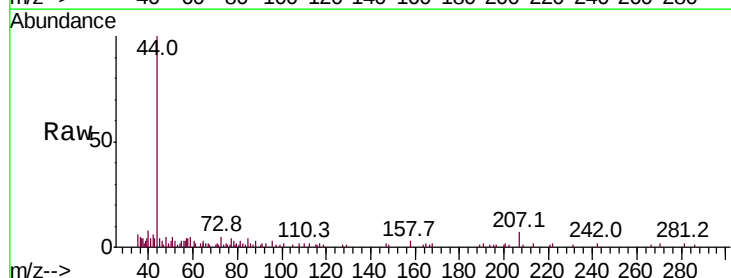
Acq: 04 Aug 2020 10:32

Tgt Ion: 85 Resp: 523

Ion Ratio Lower Upper

85 100

87 27.8 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

250

200

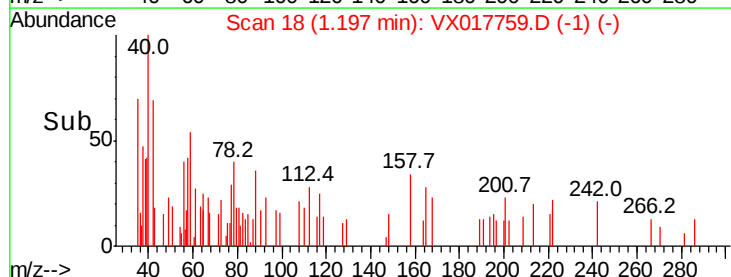
150

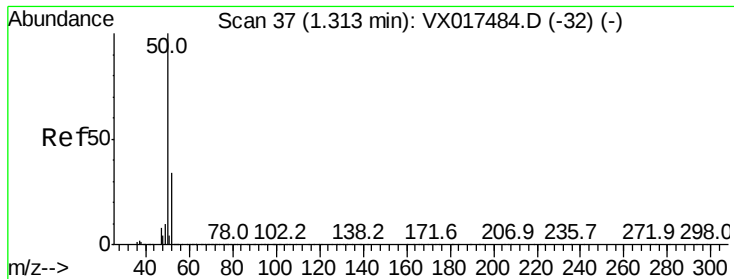
100

50

0

Time-->





#3

Chloromethane

Concen: 0.522 ug/l

RT: 1.33 min Scan# 40

Delta R.T. 0.02 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

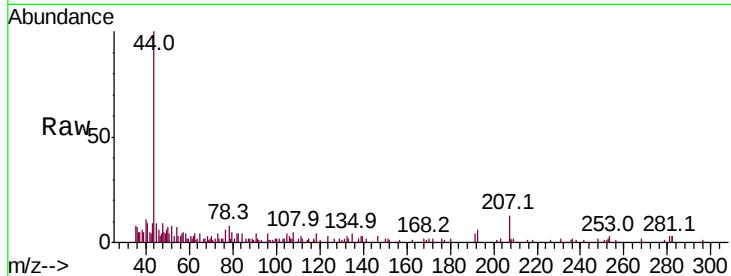
ClientSampled :

Tot Ion: 50 Resp: 1155

Ion Ratio Lower Upper

50 100

52 4.8 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

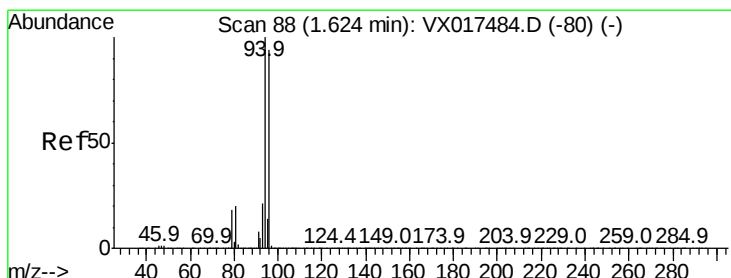
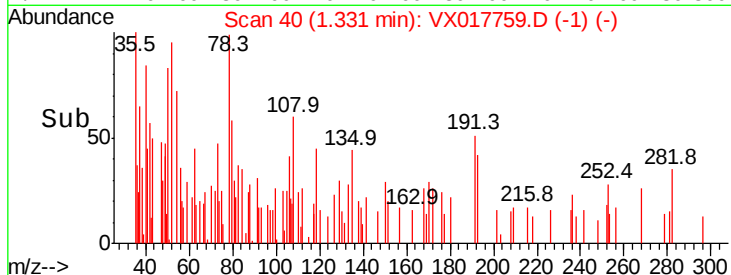
400

200

0

1.25 1.30 1.35 1.40

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017759.D

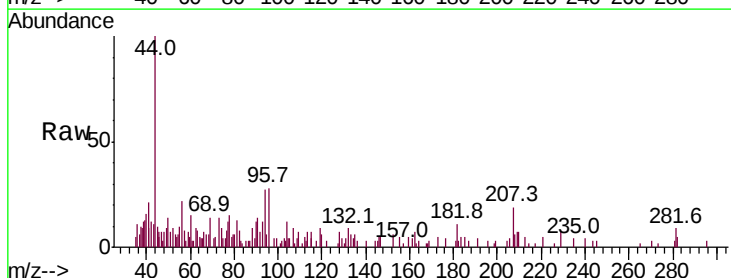
Acq: 04 Aug 2020 10:32

Tgt Ion: 94 Resp: 1189

Ion Ratio Lower Upper

94 100

96 85.2 74.1 111.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

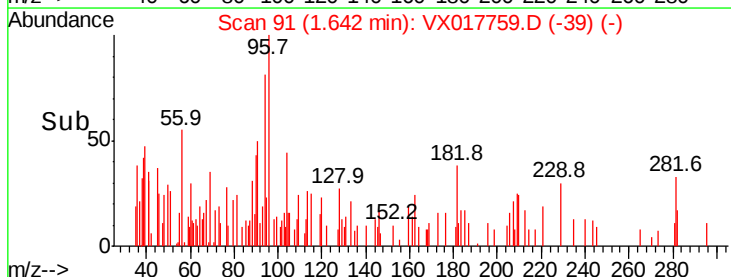
400

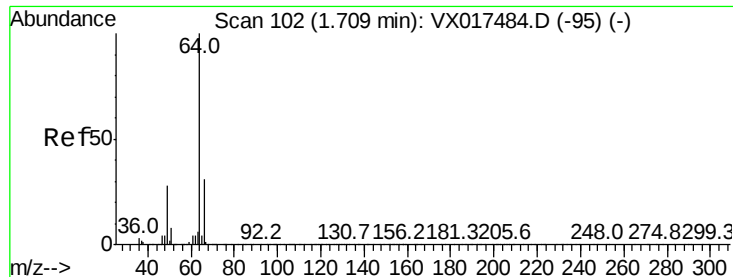
200

0

1.60 1.65 1.70

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 102

Delta R.T. -0.00 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

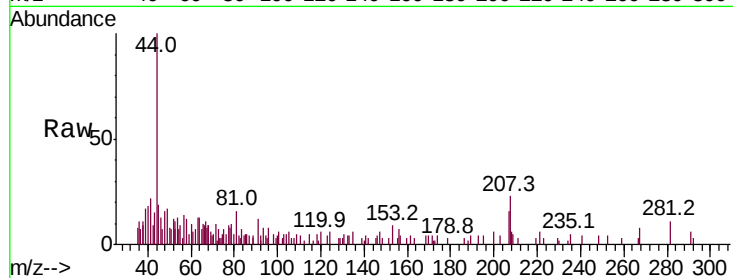
ClientSampled :

Tot Ion: 64 Resp: 164

Ion Ratio Lower Upper

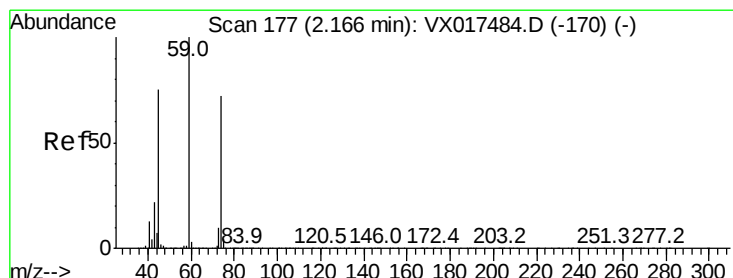
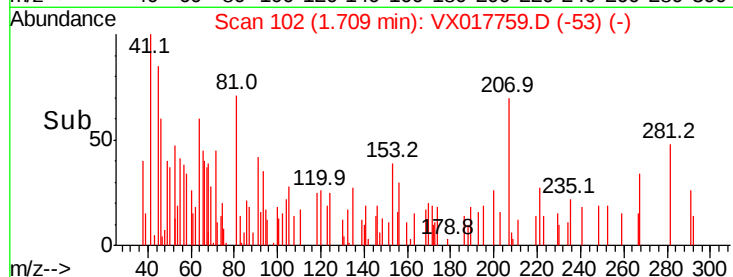
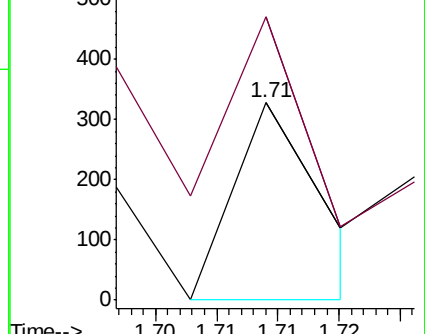
64 100

66 105.8 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# 167

Delta R.T. -0.06 min

Lab File: VX017759.D

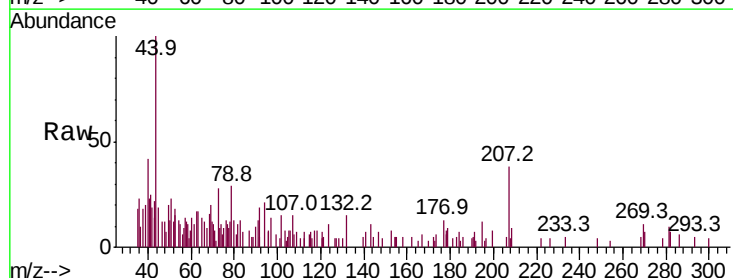
Acq: 04 Aug 2020 10:32

Tgt Ion: 74 Resp: 359

Ion Ratio Lower Upper

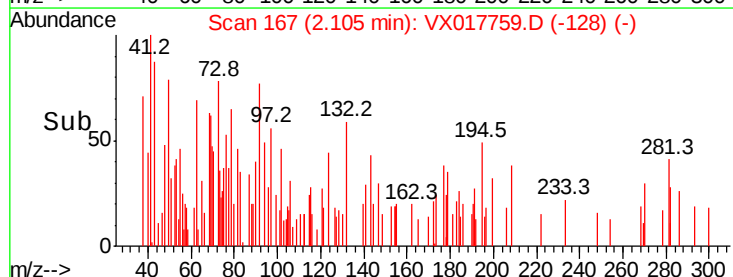
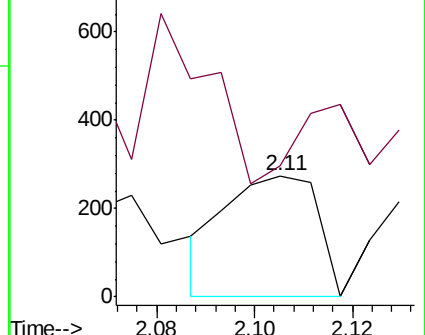
74 100

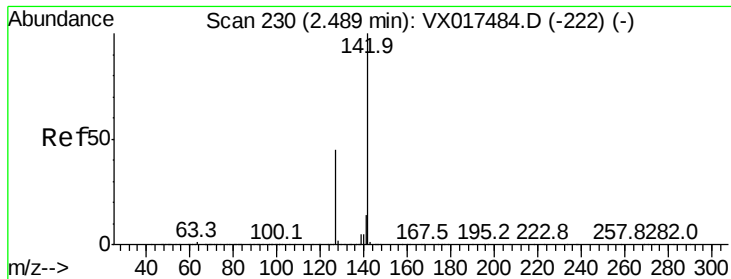
45 67.7 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 0.219 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

ClientSampled :

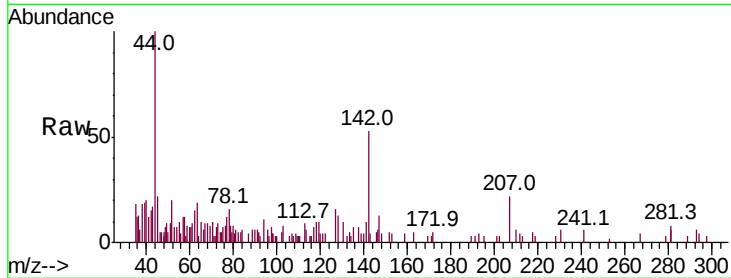
Tot Ion:142 Resp: 1821

Ion Ratio Lower Upper

142 100

127 67.2 35.9 53.9#

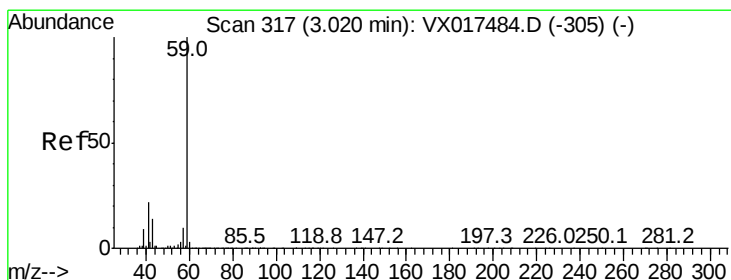
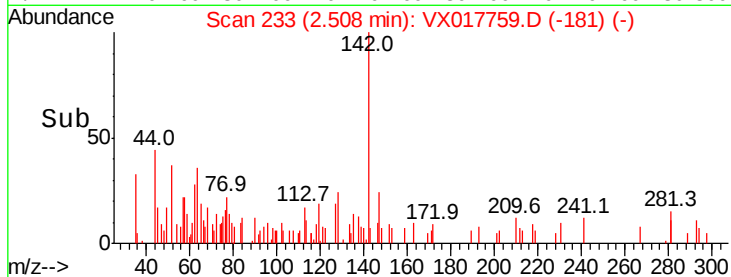
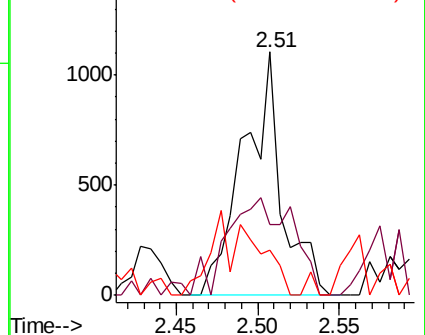
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.683 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX017759.D

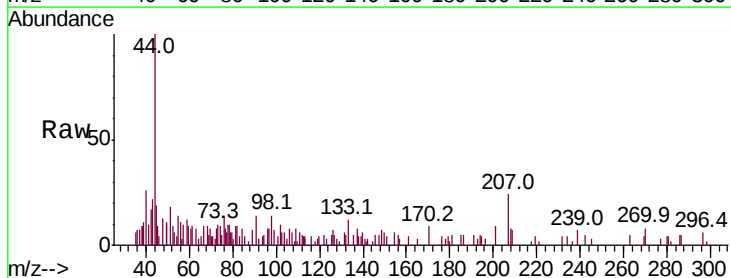
Acq: 04 Aug 2020 10:32

Tgt Ion: 59 Resp: 1105

Ion Ratio Lower Upper

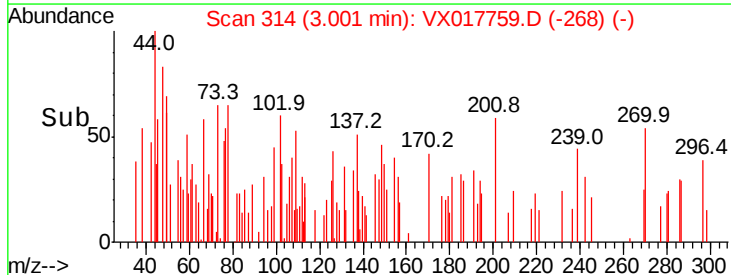
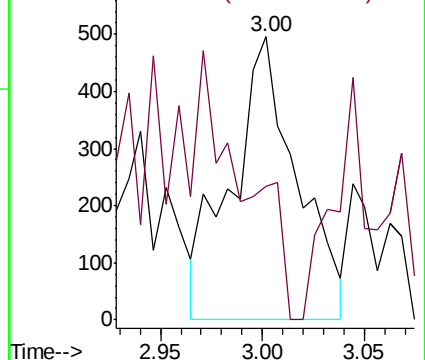
59 100

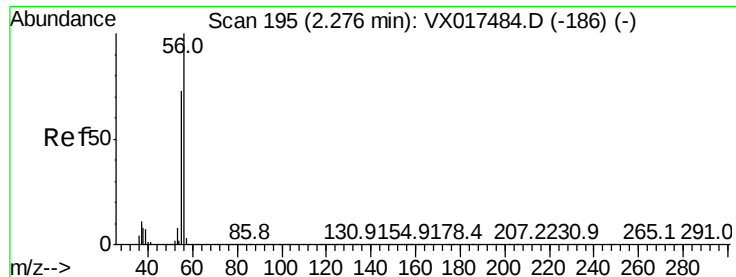
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

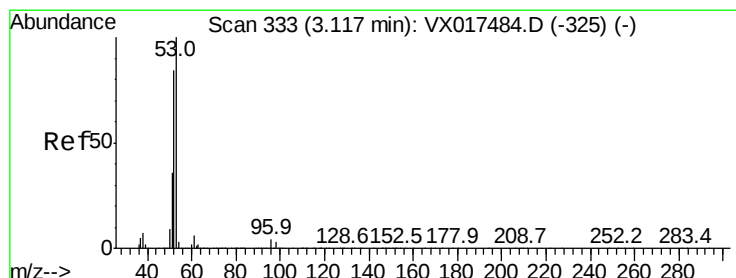
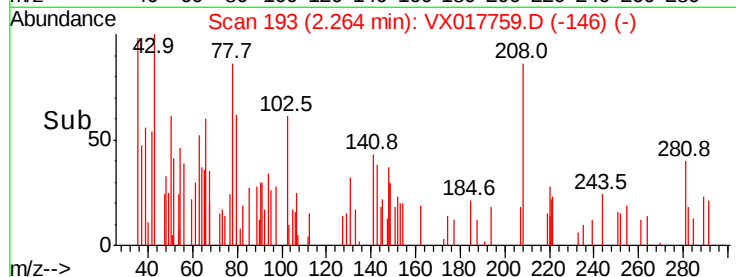
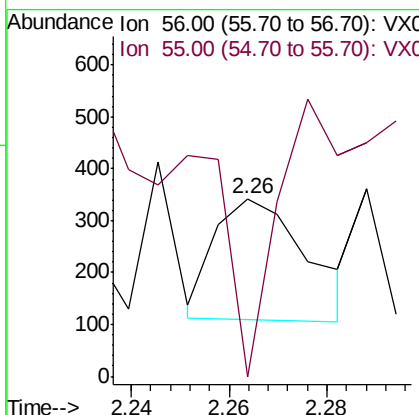
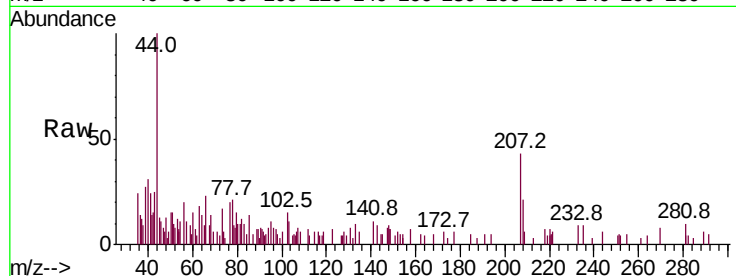




#13
Acrolein
Concen: 4.391 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX017759.D
Acq: 04 Aug 2020 10:32

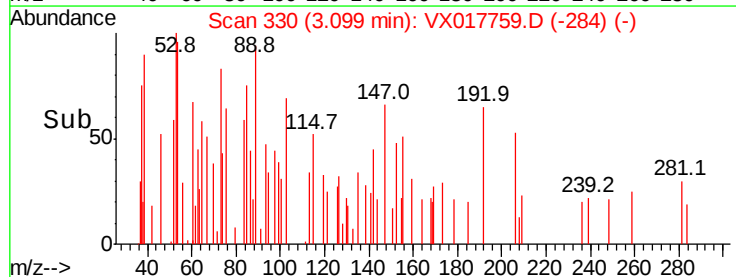
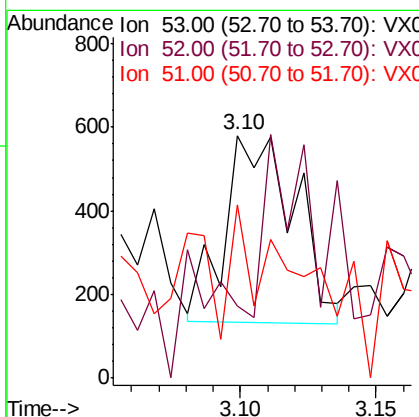
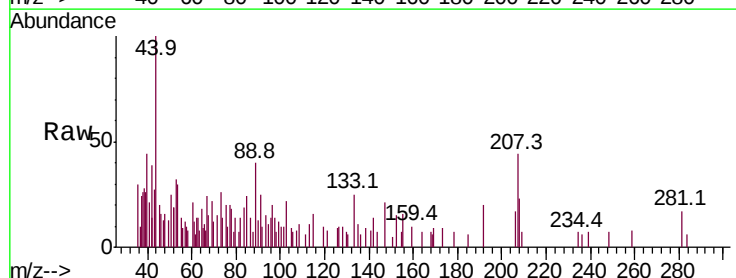
Instrument :
MSVOA_X
ClientSampled :

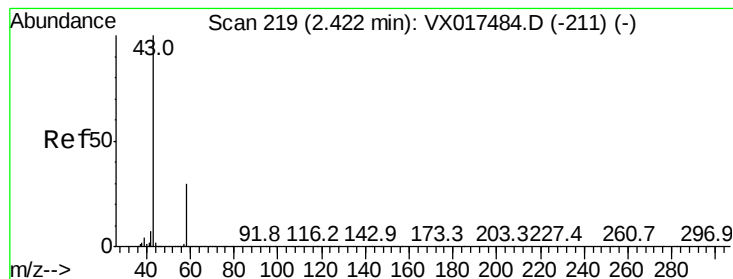
Tot Ion: 56 Resp: 304
Ion Ratio Lower Upper
56 100
55 326.0 57.4 86.2#



#15
Acrylonitrile
Concen: 0.231 ug/l
RT: 3.10 min Scan# 330
Delta R.T. -0.02 min
Lab File: VX017759.D
Acq: 04 Aug 2020 10:32

Tgt Ion: 53 Resp: 806
Ion Ratio Lower Upper
53 100
52 81.3 66.6 99.8
51 18.2 29.4 44.2#





#16

Acetone

Concen: 0.438 ug/l

RT: 2.41 min Scan# 217

Delta R.T. -0.01 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

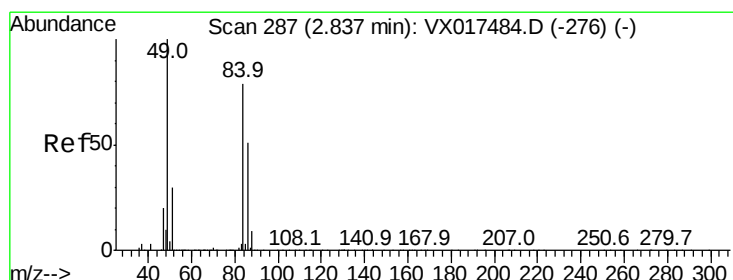
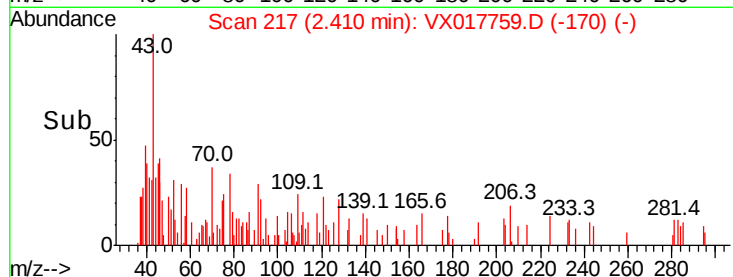
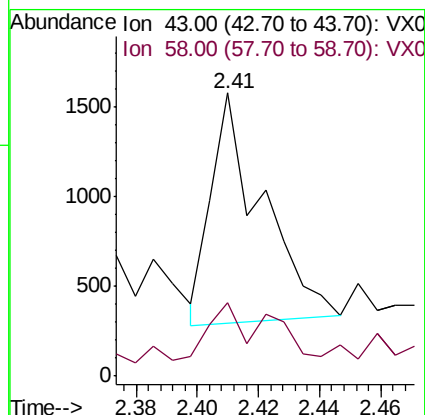
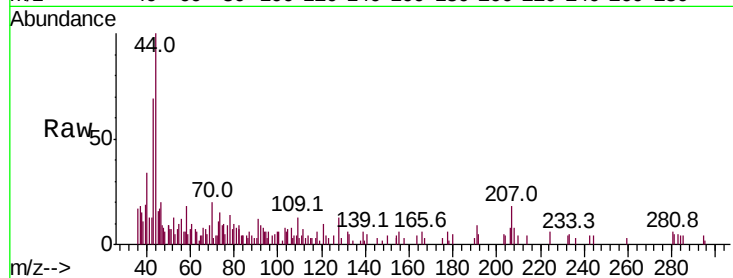
ClientSampleId :

Tot Ion: 43 Resp: 1480

Ion Ratio Lower Upper

43 100

58 24.2 24.2 36.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Tgt Ion: 84 Resp: 3110

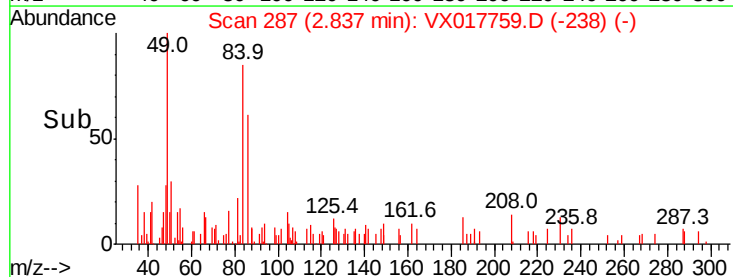
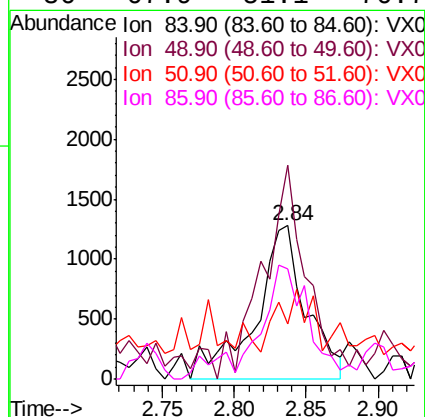
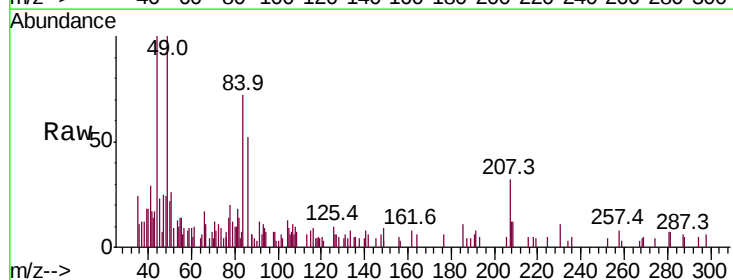
Ion Ratio Lower Upper

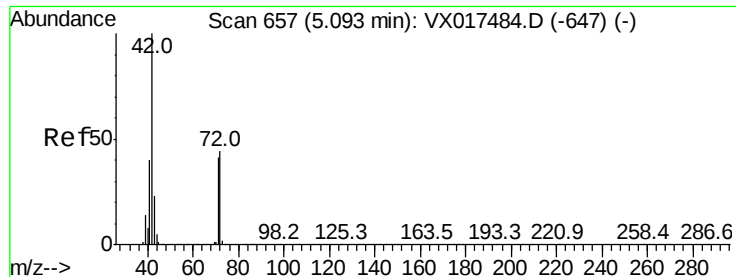
84 100

49 132.6 100.3 150.5

51 16.4 30.5 45.7#

86 67.9 51.1 76.7





#29

Tetrahydrofuran

Concen: 0.240 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :
MSVOA_X
ClientSampled :

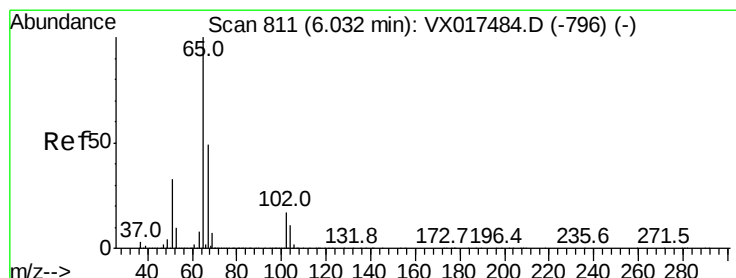
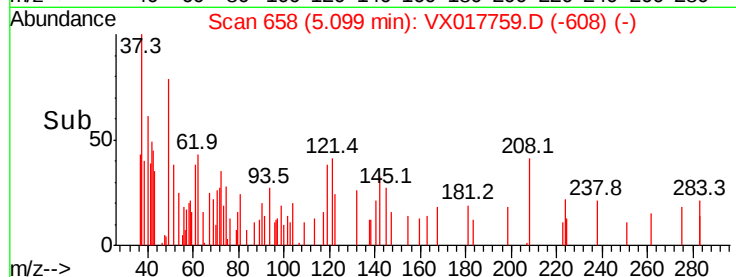
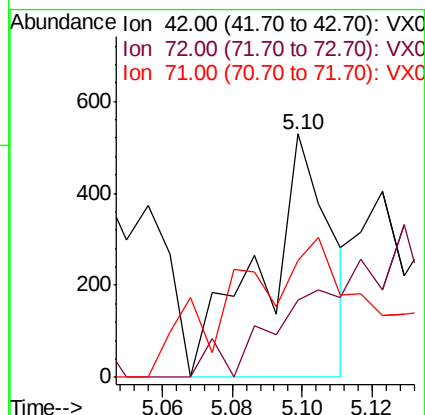
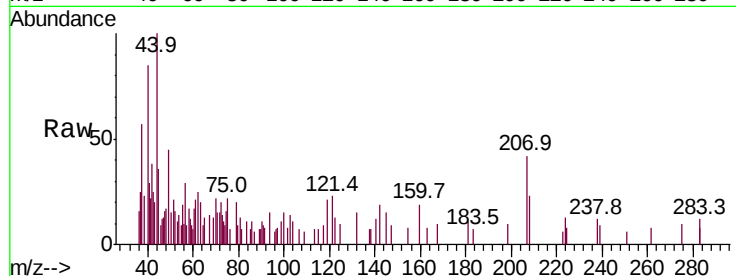
Tot Ion: 42 Resp: 714

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 21.1 33.0 49.4#



#33

1,2-Dichloroethane-d4

Concen: 51.559 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017759.D

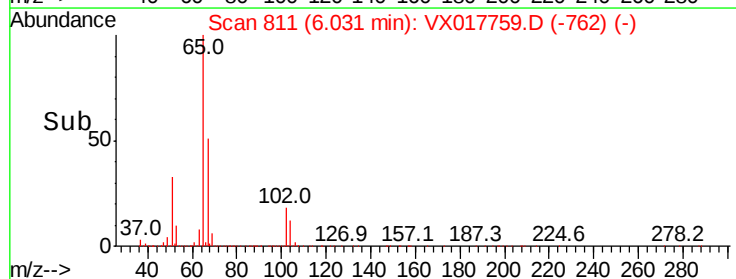
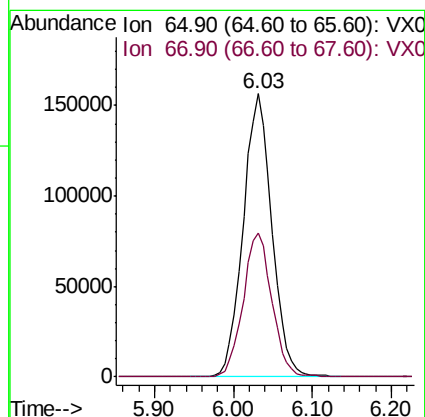
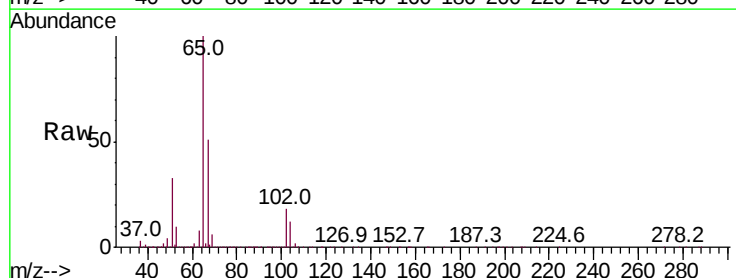
Acq: 04 Aug 2020 10:32

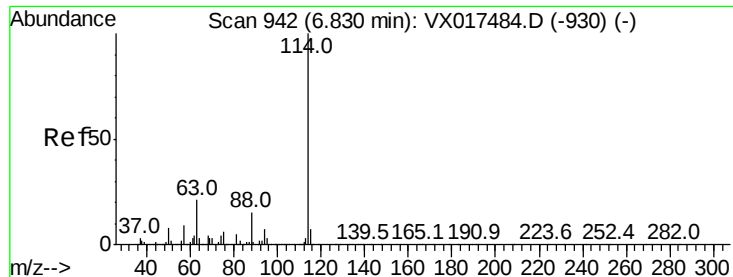
Tgt Ion: 65 Resp: 395522

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

ClientSampleId :

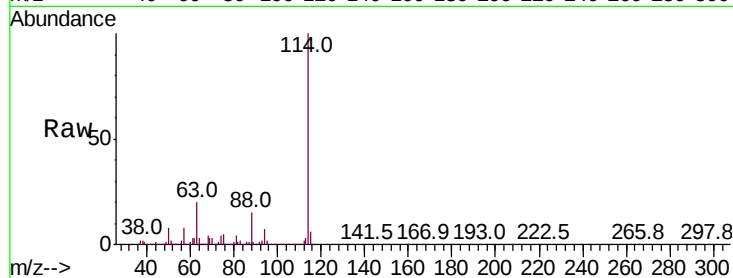
Tot Ion:114 Resp: 891931

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.6

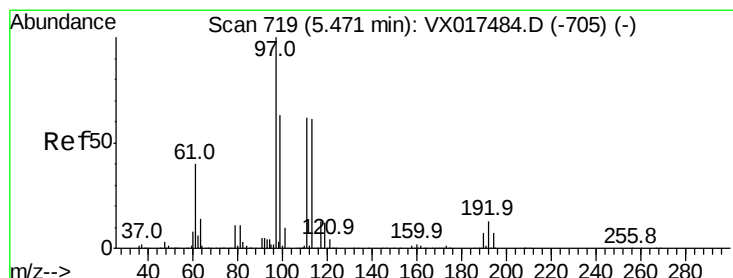
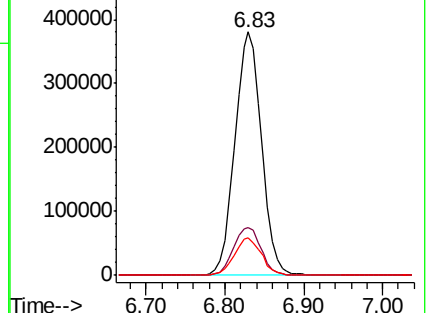
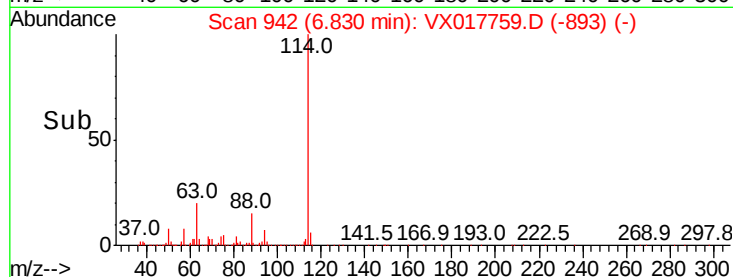
88 15.1 0.0 33.4



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: 51.513 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

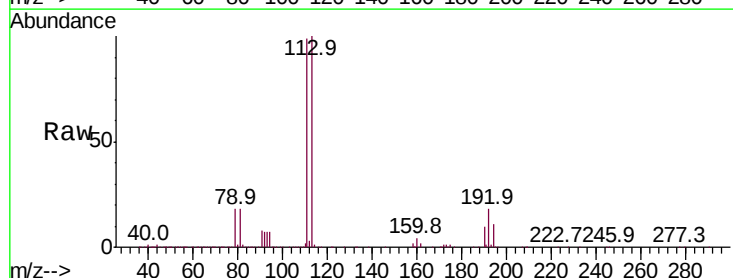
Tgt Ion:113 Resp: 307292

Ion Ratio Lower Upper

113 100

111 100.0 80.7 121.1

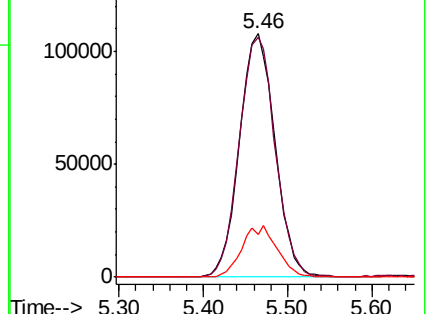
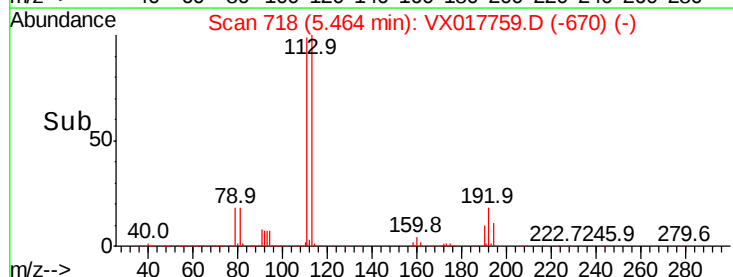
192 21.0 16.9 25.3

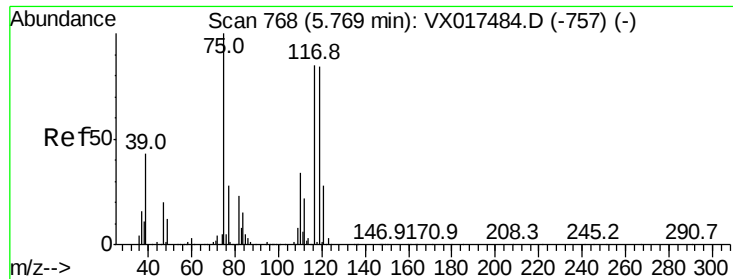


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.184 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

ClientSampleId :

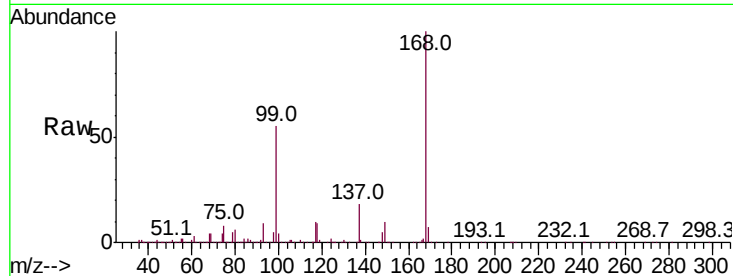
Tot Ion: 75 Resp: 44346

Ion Ratio Lower Upper

75 100

110 12.0 18.1 54.3#

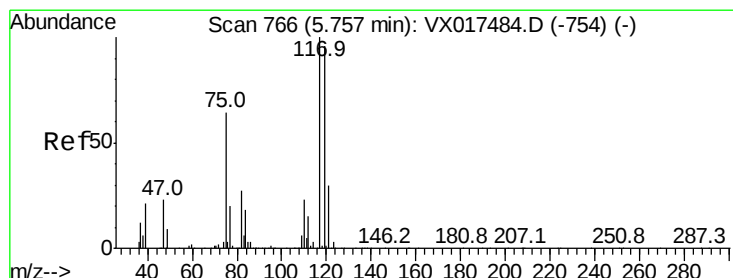
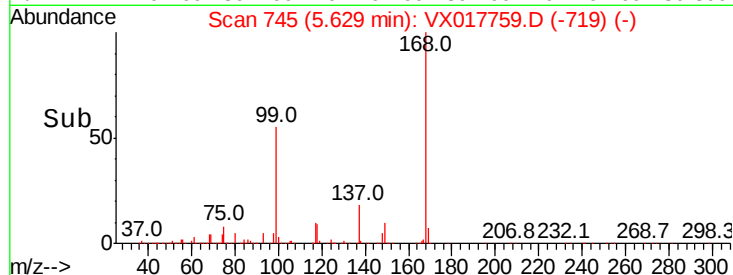
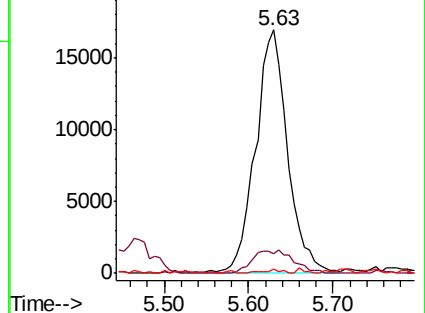
77 0.9 24.6 37.0#



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: 5.749 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

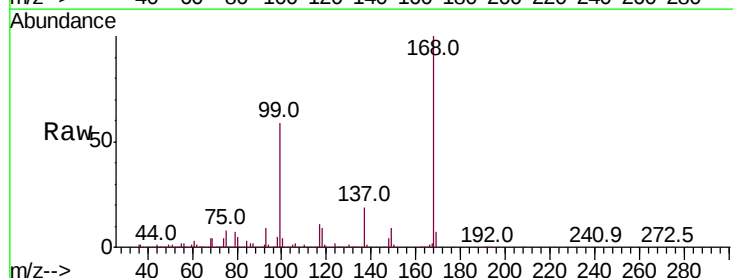
Tgt Ion: 117 Resp: 59718

Ion Ratio Lower Upper

117 100

119 7.9 75.4 113.0#

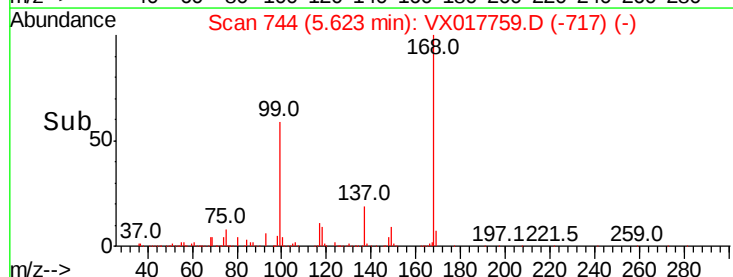
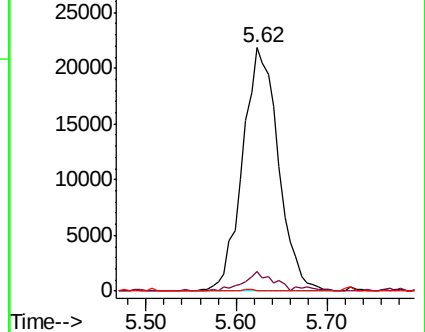
121 0.0 24.3 36.5#

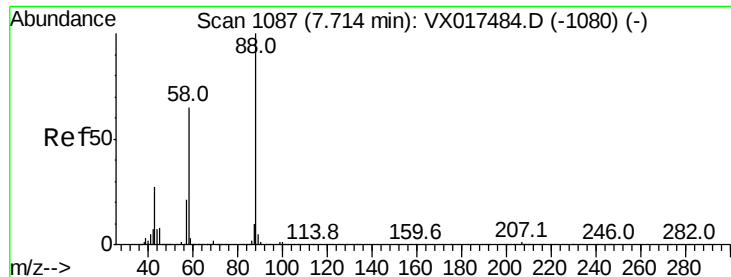


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.438 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

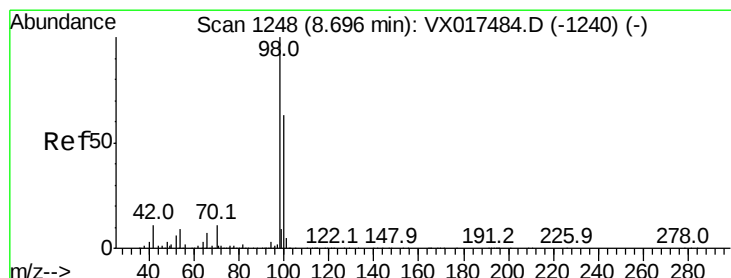
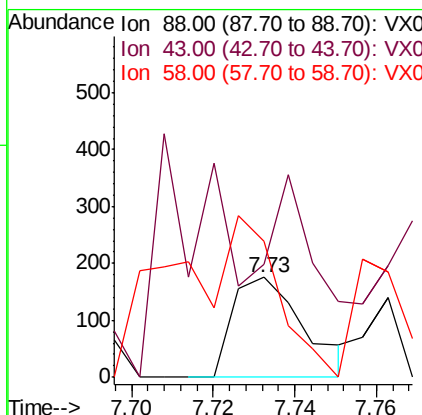
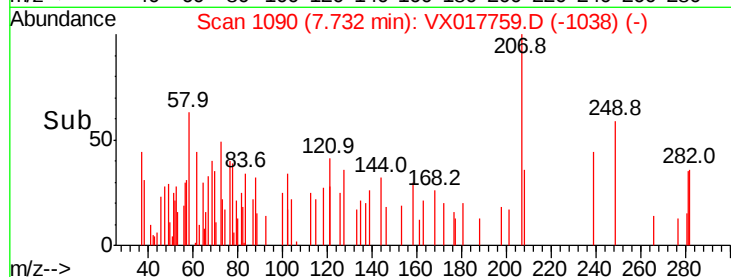
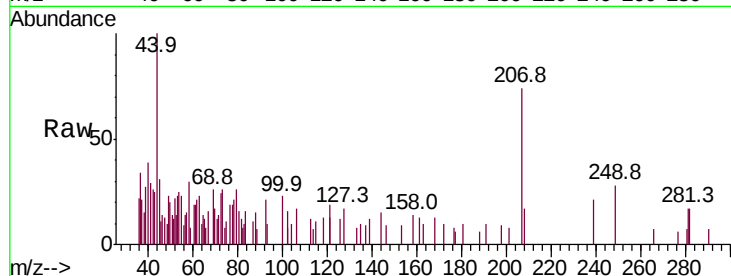
Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 211

Ion	Ratio	Lower	Upper
88	100		
43	57.3	27.8	41.6#
58	115.2	58.3	87.5#



#50

Toluene-d8

Concen: 50.405 ug/l

RT: 8.70 min Scan# 1248

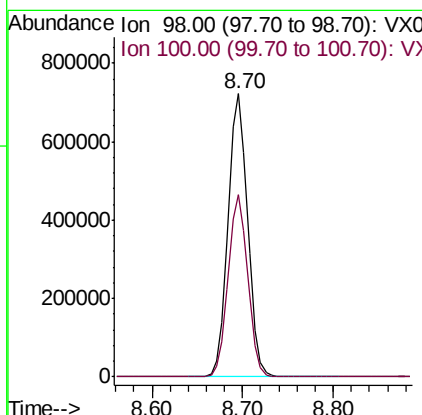
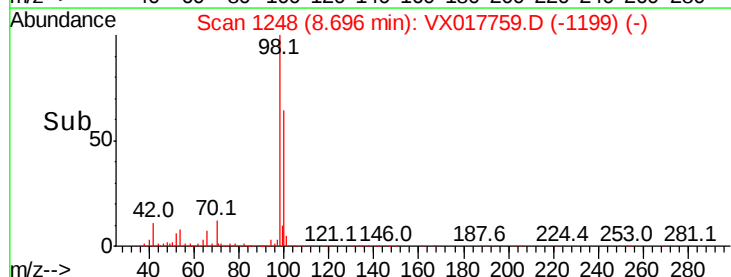
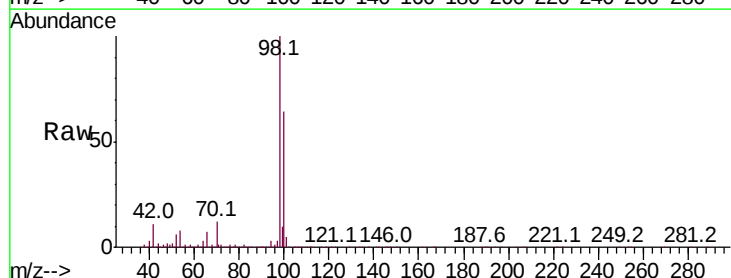
Delta R.T. -0.00 min

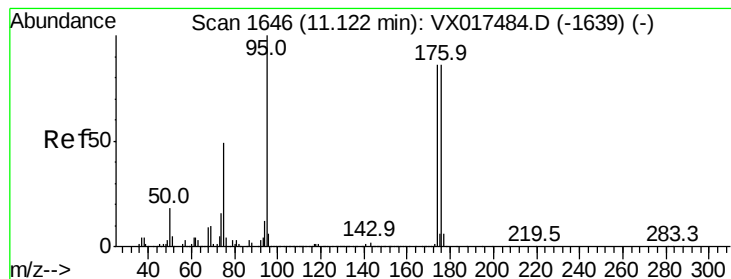
Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Tgt Ion: 98 Resp: 1084690

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.3	78.5





#62

4-Bromofluorobenzene

Concen: 45.606 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

ClientSampleId :

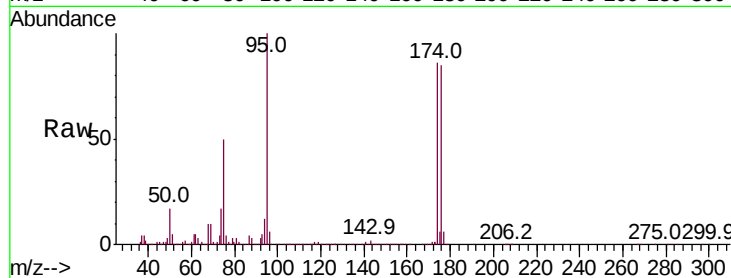
Tot Ion: 95 Resp: 392766

Ion Ratio Lower Upper

95 100

174 85.5 0.0 169.0

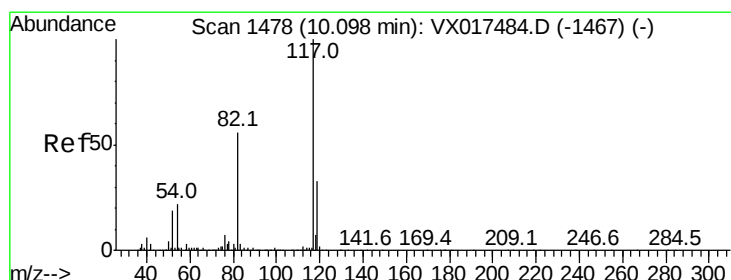
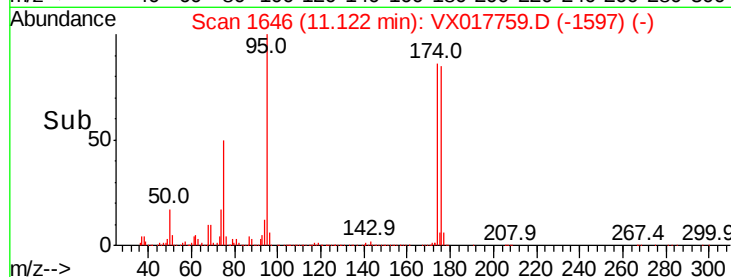
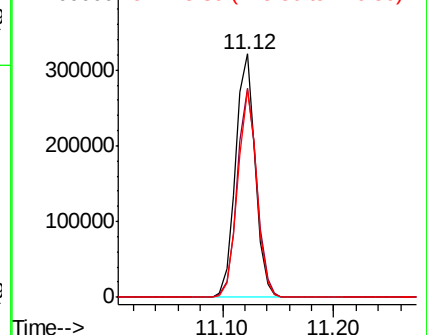
176 82.5 0.0 161.0



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: VX017759.D

Acq: 04 Aug 2020 10:32

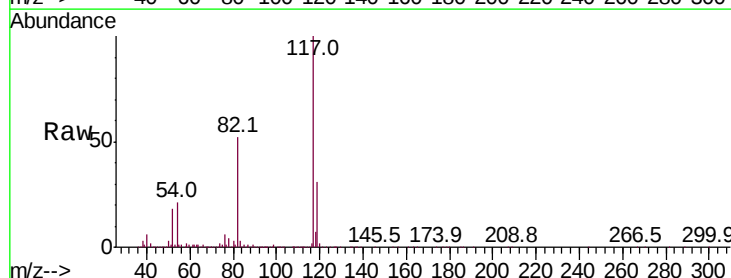
Tgt Ion: 117 Resp: 818939

Ion Ratio Lower Upper

117 100

82 52.1 44.0 66.0

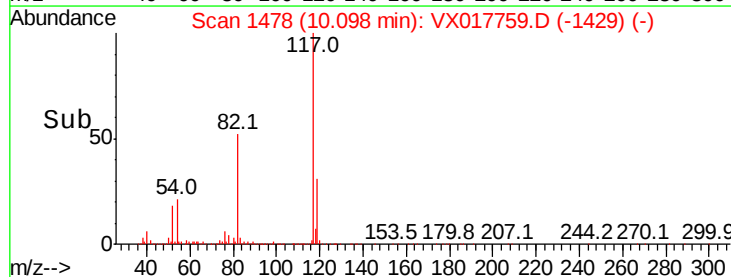
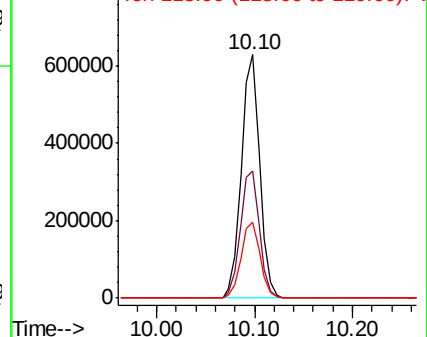
119 31.4 25.4 38.0

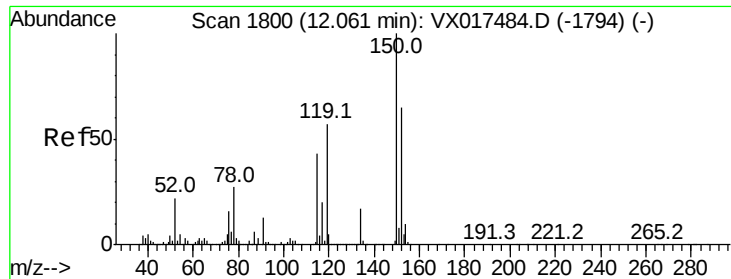


Abundance Ion 116.90 (116.60 to 117.60): VX0

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: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

ClientSampleId :

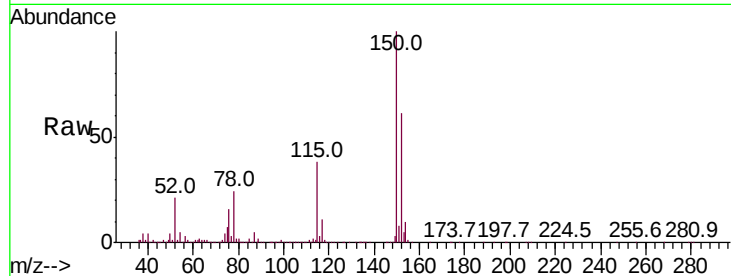
Tot Ion:152 Resp: 398602

Ion Ratio Lower Upper

152 100

115 58.6 65.5 196.6#

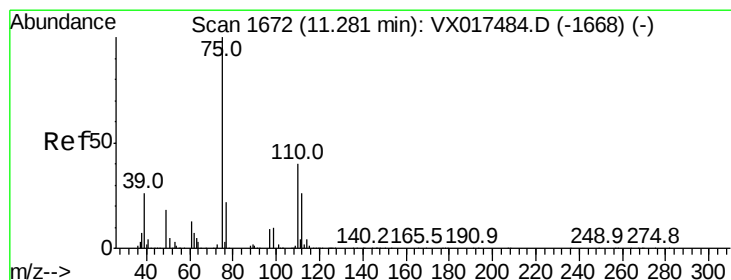
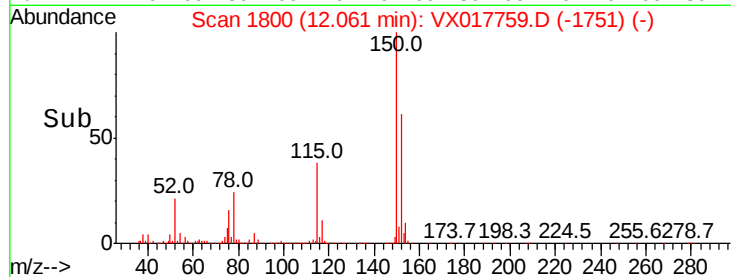
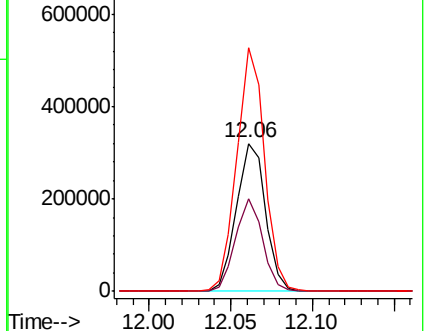
150 157.0 0.0 412.6



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: 24.666 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017759.D

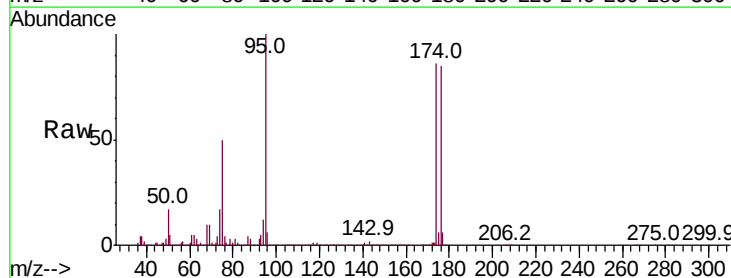
Acq: 04 Aug 2020 10:32

Tgt Ion: 75 Resp: 202249

Ion Ratio Lower Upper

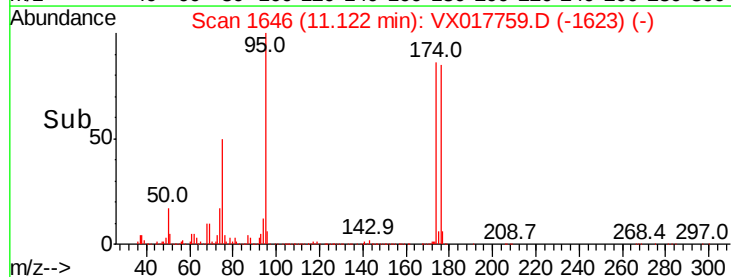
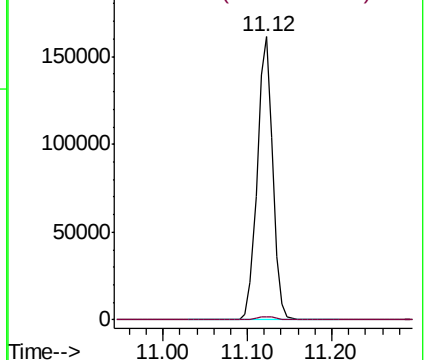
75 100

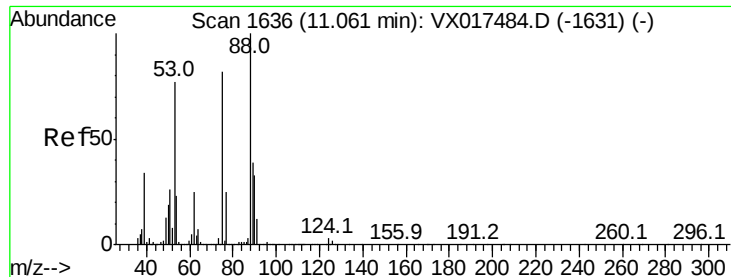
77 1.4 21.8 65.3#



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: 62.153 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Instrument :

MSVOA_X

ClientSampleId :

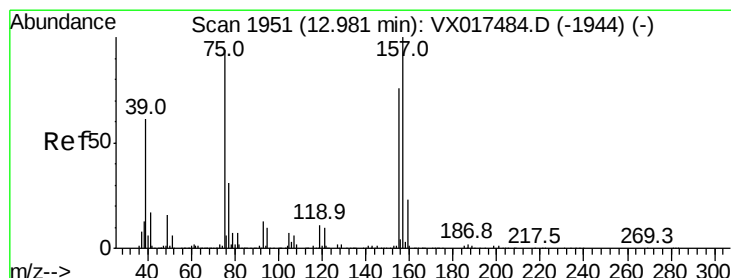
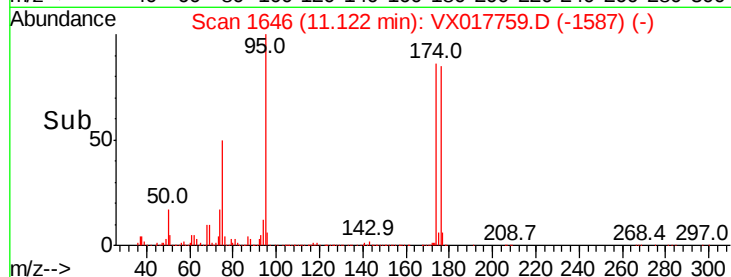
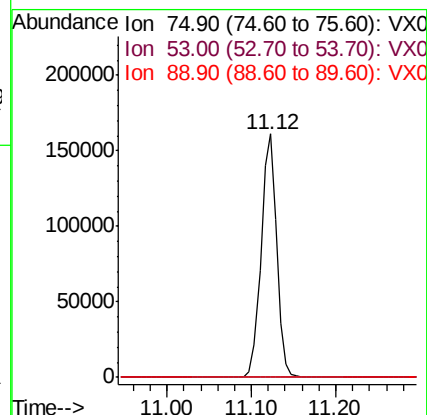
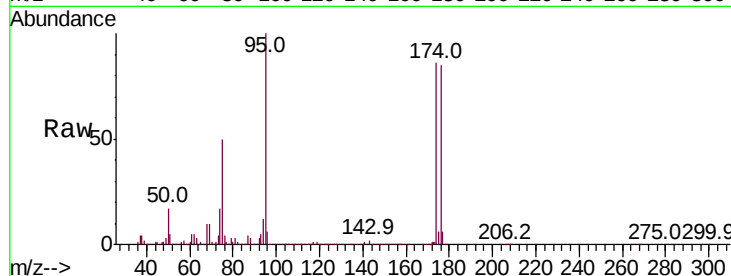
Tot Ion: 75 Resp: 202249

Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

89 0.1 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.649 ug/l

RT: 12.99 min Scan# 1952

Delta R.T. 0.01 min

Lab File: VX017759.D

Acq: 04 Aug 2020 10:32

Tgt Ion: 75 Resp: 185

Ion Ratio Lower Upper

75 100

155 25.4 42.3 126.8#

157 14.6 54.3 162.9#

