

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017582.D
 Acq On : 25 Jul 2020 09:33
 Operator : JC/SP
 Sample : L3382-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:10:05 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	454707	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	713093	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	753094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	409153	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	317877	54.42	ug/l	0.00
Spiked Amount			Recovery	=	108.84%	
35) Dibromofluoromethane	5.46	113	261121	54.75	ug/l	0.00
Spiked Amount			Recovery	=	109.50%	
50) Toluene-d8	8.70	98	869619	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	11.12	95	384507	55.84	ug/l	0.00
Spiked Amount			Recovery	=	111.68%	

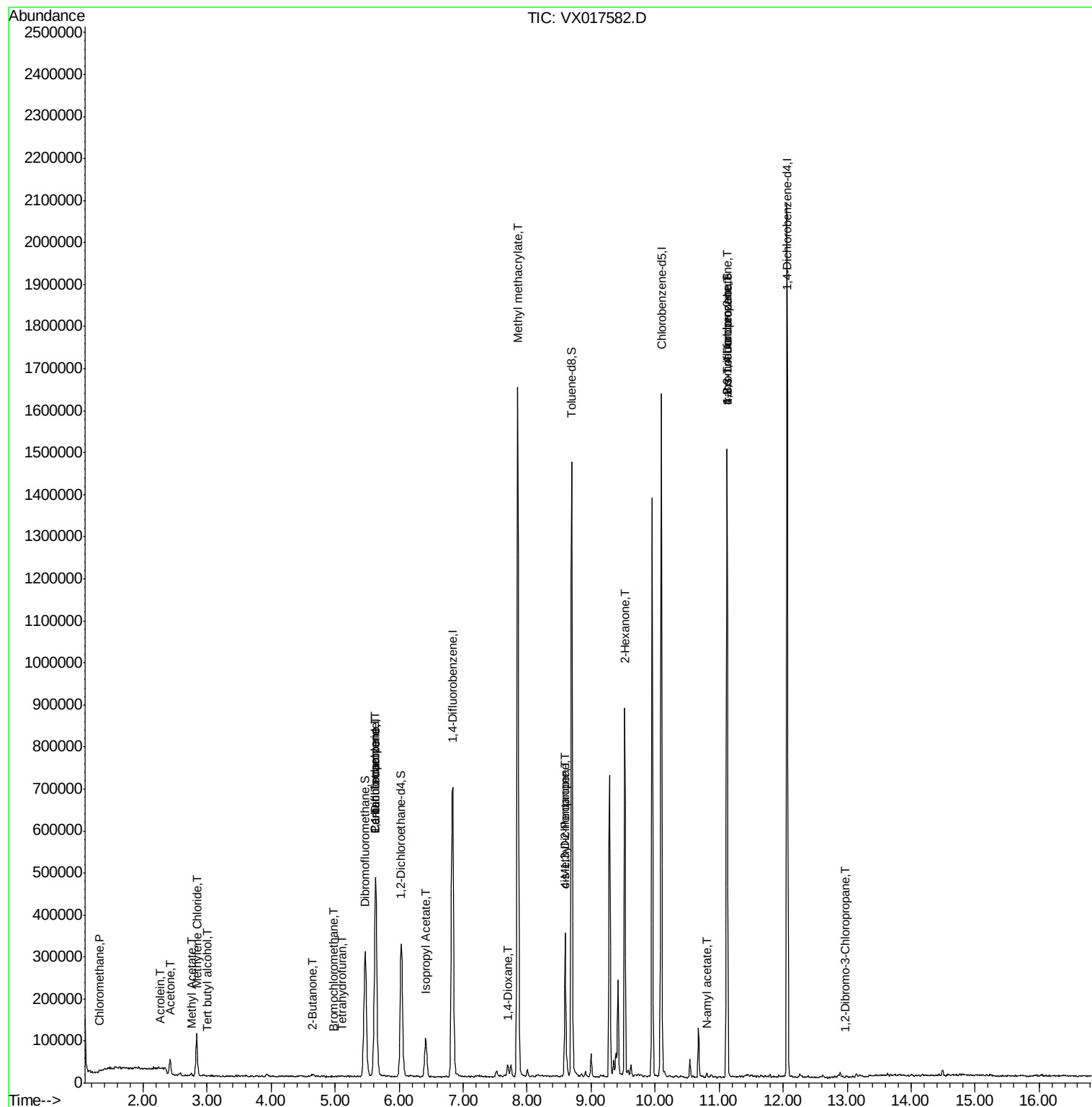
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.15	85	280	Below Cal	#	71
3) Chloromethane	1.31	50	1552	0.641	ug/l #	42
5) Bromomethane	1.62	94	338	Below Cal	#	3
6) Chloroethane	1.72	64	435	Below Cal	#	1
8) Diethyl Ether	2.17	74	1214	Below Cal		84
11) Tert butyl alcohol	3.01	59	1887	1.533	ug/l #	64
13) Acrolein	2.27	56	206	4.364	ug/l #	1
16) Acetone	2.42	43	39053	15.191	ug/l	96
18) Methyl Acetate	2.75	43	9263	1.530	ug/l #	87
20) Methylene Chloride	2.84	84	43840	7.975	ug/l	96
25) 2-Butanone	4.65	43	6182	1.693	ug/l	92
28) Bromochloromethane	4.98	49	1027	0.251	ug/l #	10
29) Tetrahydrofuran	5.12	42	1903	0.841	ug/l #	71
36) 1,1-Dichloropropene	5.64	75	33565	4.908	ug/l #	50
38) Carbon Tetrachloride	5.64	117	44365	5.342	ug/l #	18
43) Isopropyl Acetate	6.42	43	127731	10.345	ug/l	99
48) Methyl methacrylate	7.85	41	146129	23.877	ug/l #	46
49) 1,4-Dioxane	7.70	88	293	2.497	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	123539	16.770	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	51877	5.878	ug/l #	61
59) 2-Hexanone	9.52	43	97823	17.637	ug/l #	52
74) N-amyl acetate	10.81	43	5043	0.404	ug/l #	56
76) 1,2,3-Trichloropropane	11.12	75	199639	23.720	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	199639	59.769	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.97	75	189	2.649	ug/l #	31

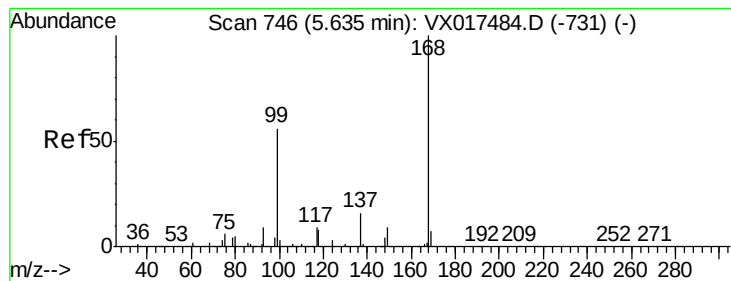
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

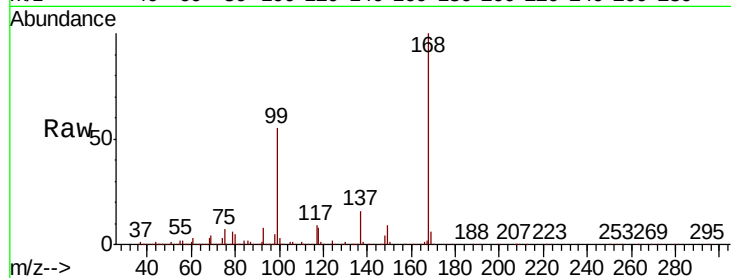
ClientSampleId :

Tot Ion:168 Resp: 454707

Ion Ratio Lower Upper

168 100

99 55.4 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

150000

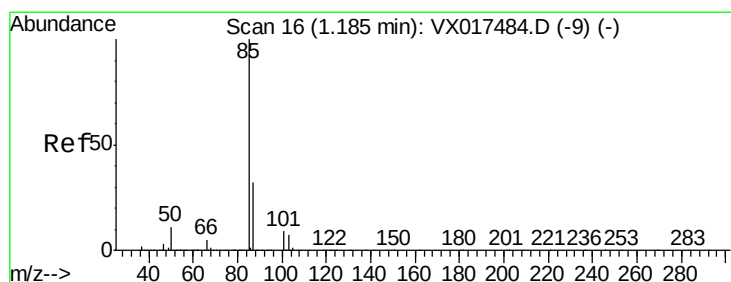
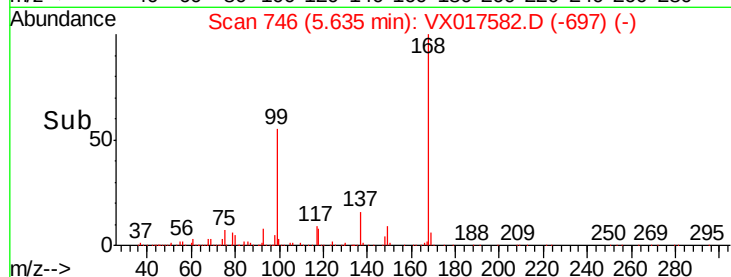
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.15 min Scan# 11

Delta R.T. -0.03 min

Lab File: VX017582.D

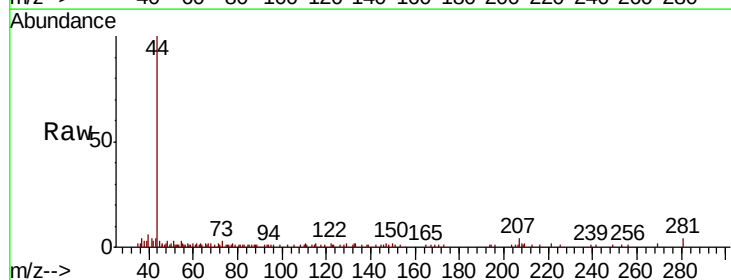
Acq: 25 Jul 2020 09:33

Tgt Ion: 85 Resp: 280

Ion Ratio Lower Upper

85 100

87 15.7 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.15

300

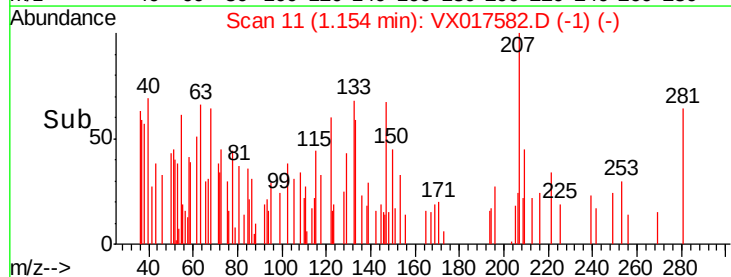
200

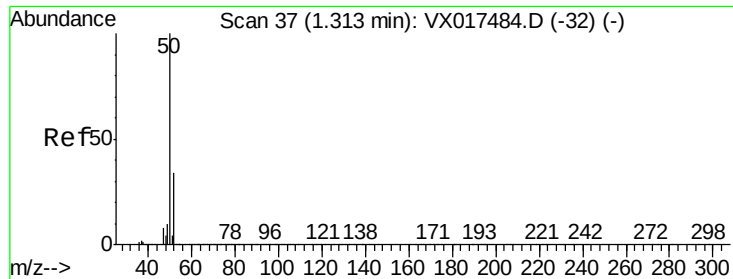
100

0

Time-->

1.12 1.14 1.16 1.18





#3

Chloromethane

Concen: 0.641 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

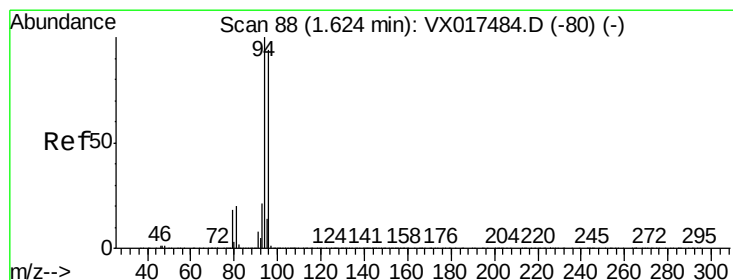
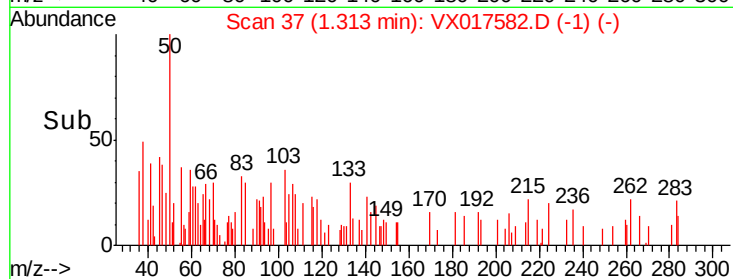
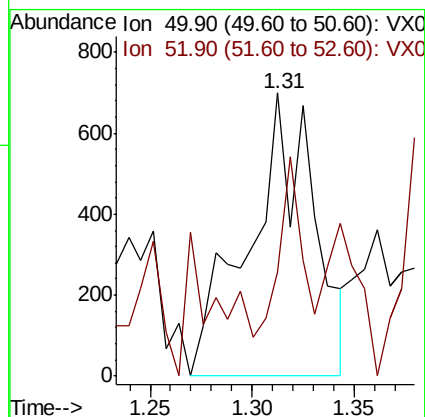
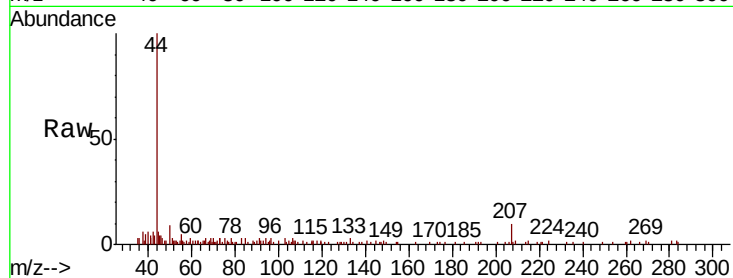
ClientSampleId :

Tot Ion: 50 Resp: 1552

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017582.D

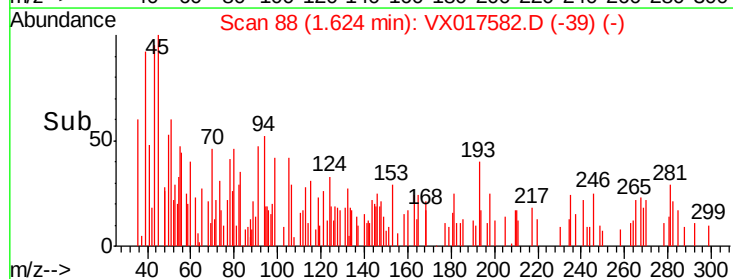
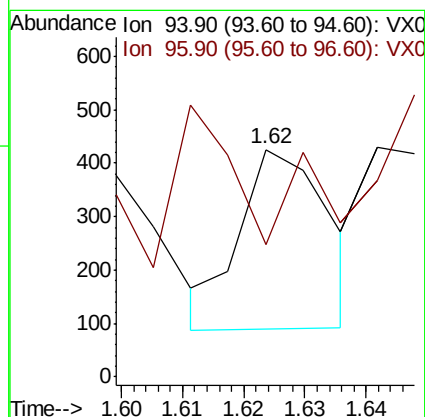
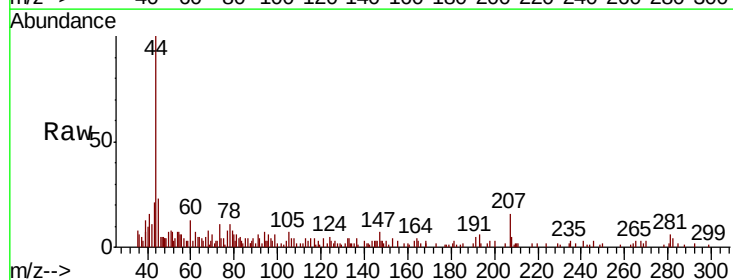
Acq: 25 Jul 2020 09:33

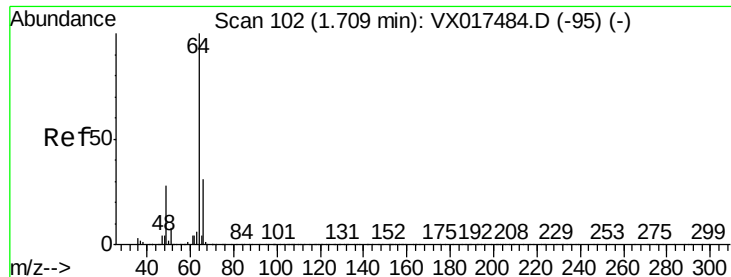
Tgt Ion: 94 Resp: 338

Ion Ratio Lower Upper

94 100

96 0.0 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

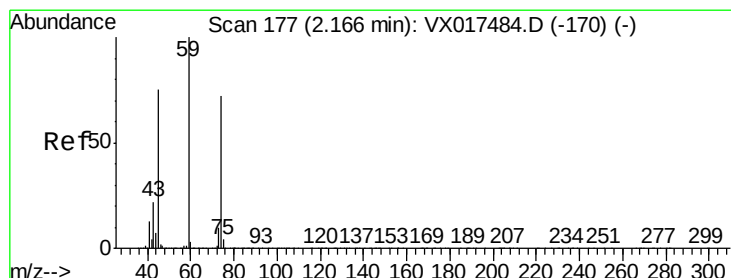
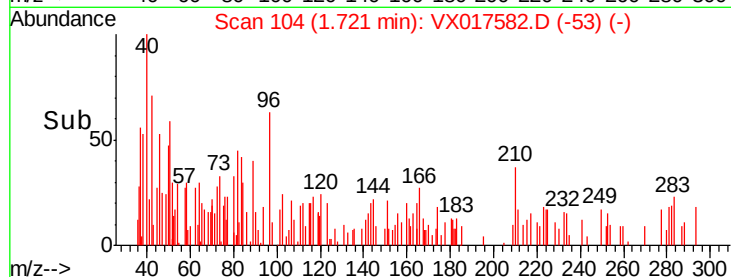
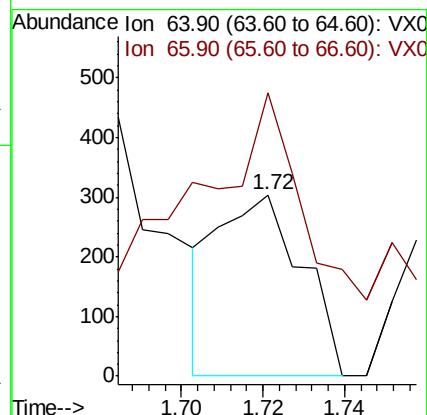
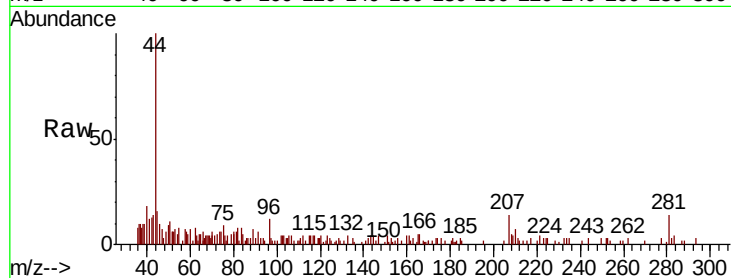
ClientSampled :

Tot Ion: 64 Resp: 435

Ion Ratio Lower Upper

64 100

66 97.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017582.D

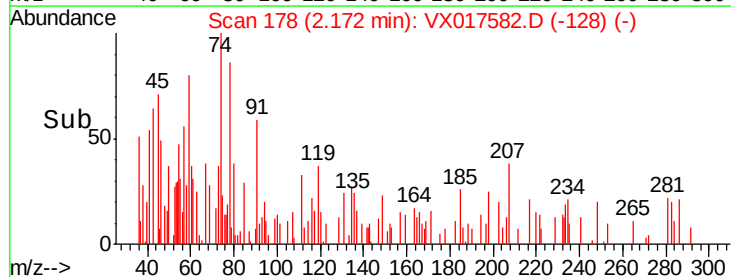
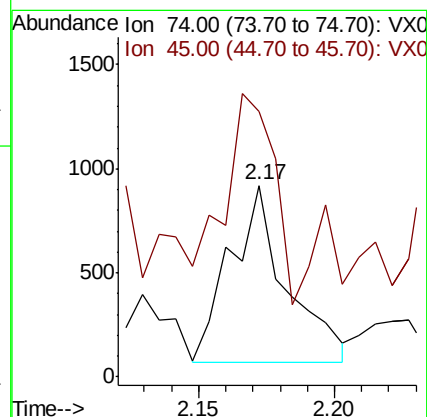
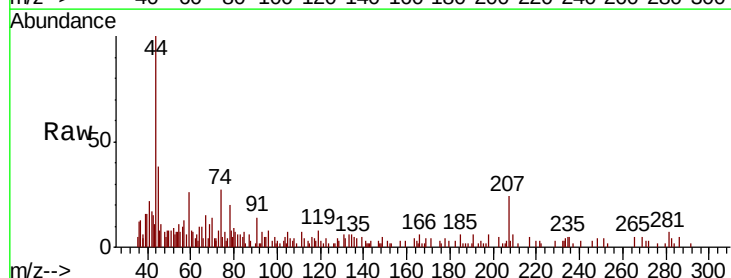
Acq: 25 Jul 2020 09:33

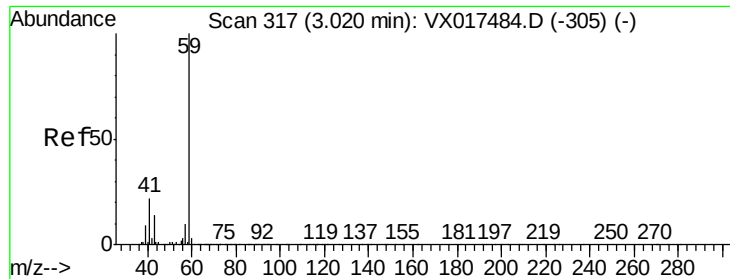
Tgt Ion: 74 Resp: 1214

Ion Ratio Lower Upper

74 100

45 85.1 50.8 152.5

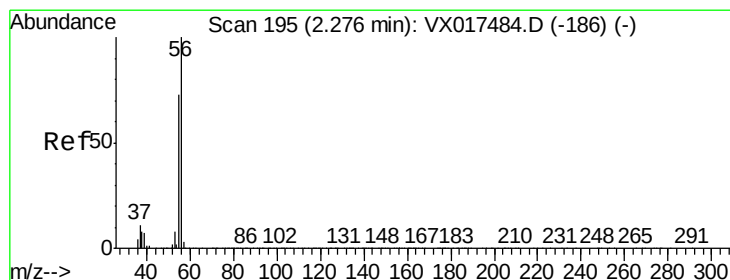
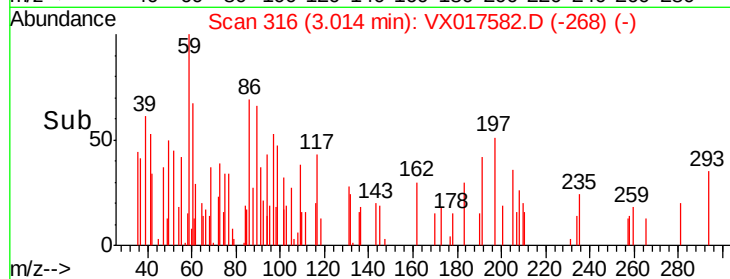
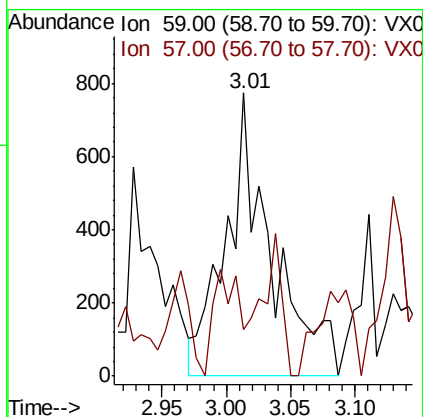
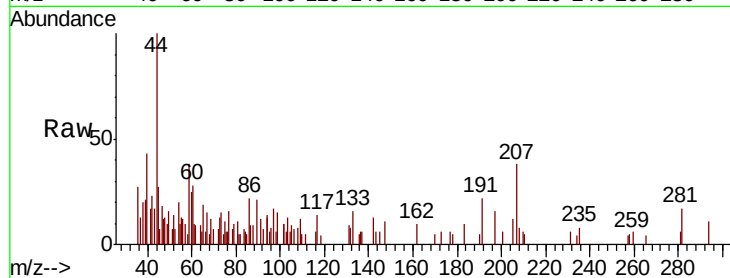




#11
Tert butyl alcohol
Concen: 1.533 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

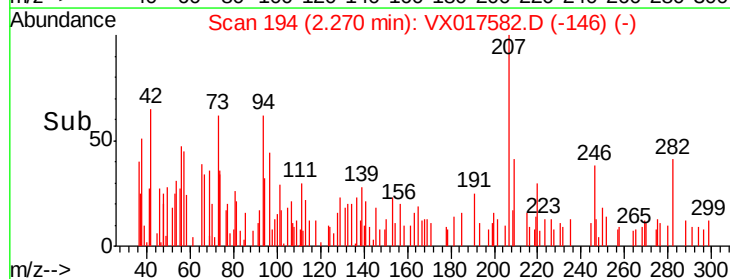
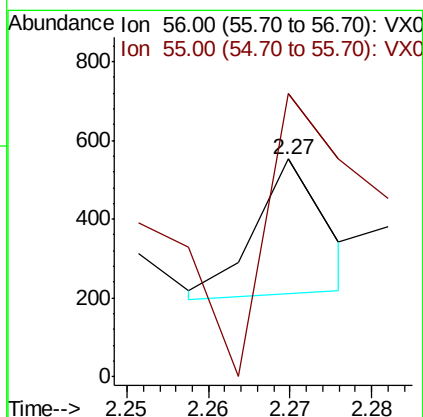
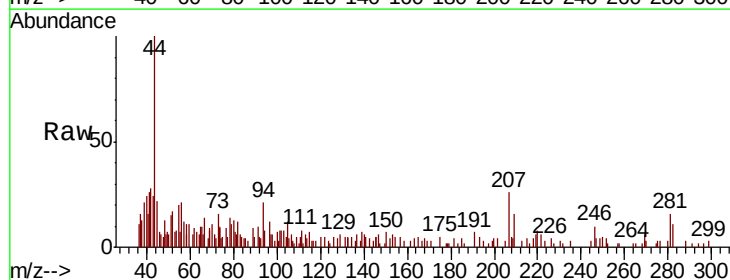
Instrument :
MSVOA_X
ClientSampled :

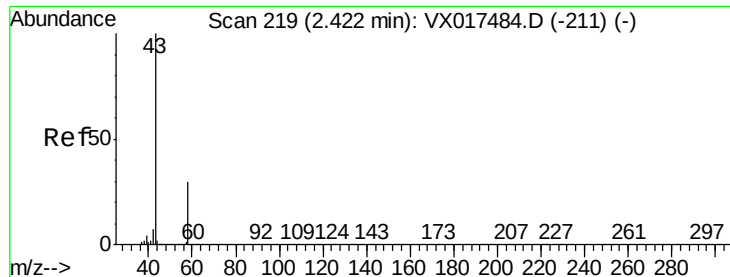
Tot Ion: 59 Resp: 1887
Ion Ratio Lower Upper
59 100
57 24.2 8.6 12.8#



#13
Acrolein
Concen: 4.364 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

Tgt Ion: 56 Resp: 206
Ion Ratio Lower Upper
56 100
55 305.8 57.4 86.2#

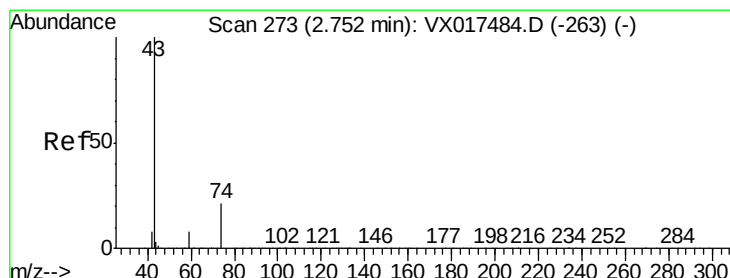
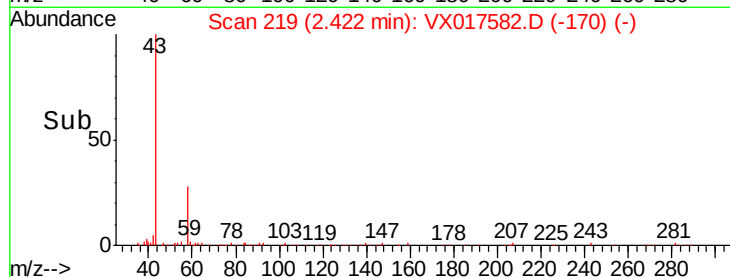
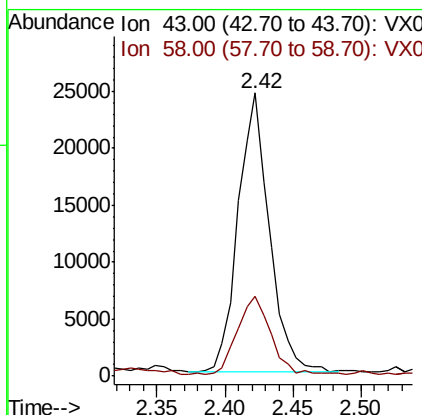
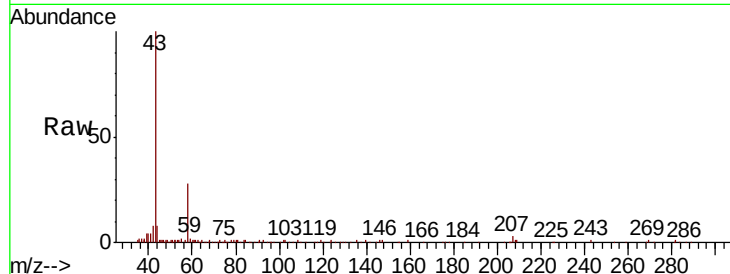




#16
Acetone
Concen: 15.191 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

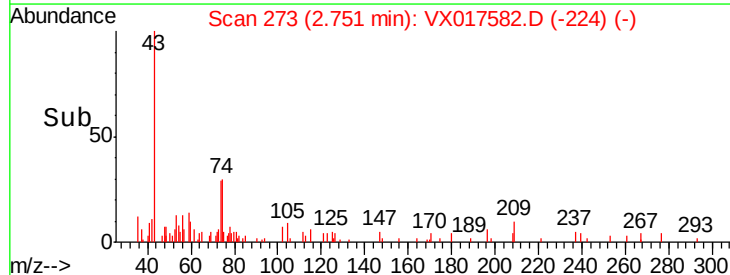
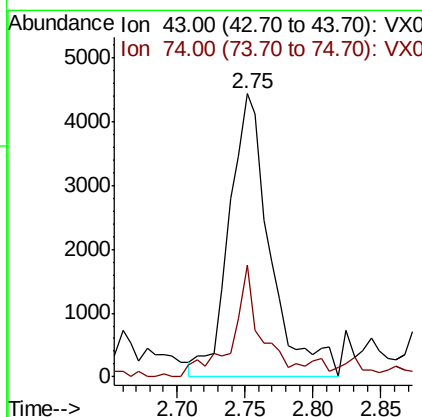
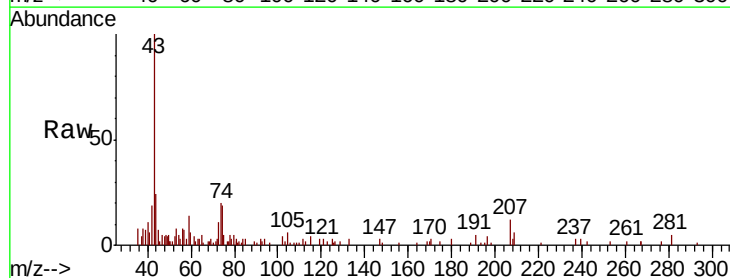
Instrument :
MSVOA_X
ClientSampled :

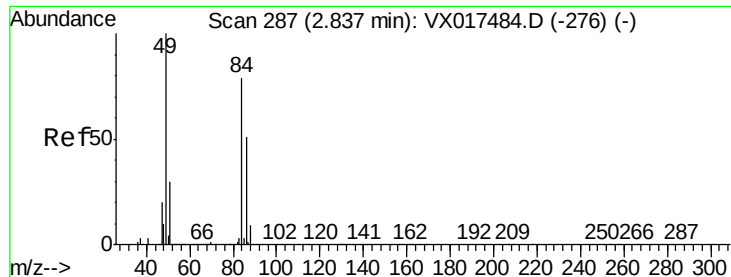
Tot Ion: 43 Resp: 39053
Ion Ratio Lower Upper
43 100
58 28.2 24.2 36.4



#18
Methyl Acetate
Concen: 1.530 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

Tgt Ion: 43 Resp: 9263
Ion Ratio Lower Upper
43 100
74 28.1 17.5 26.3#

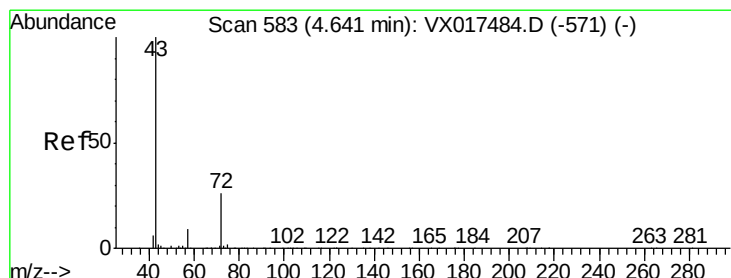
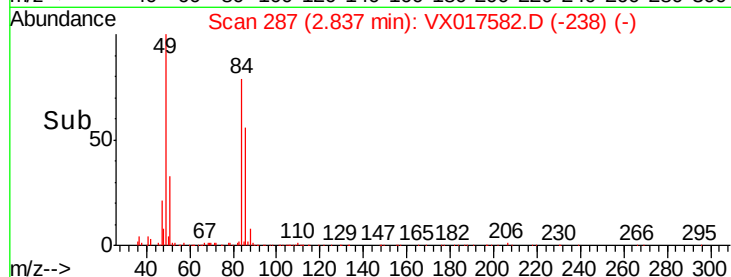
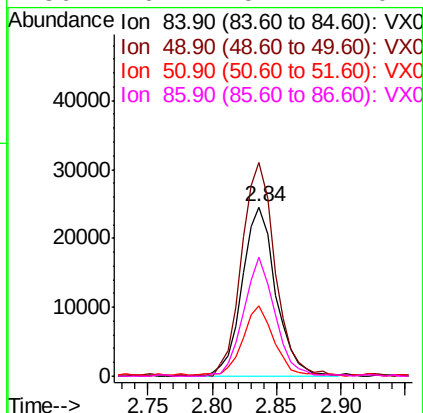
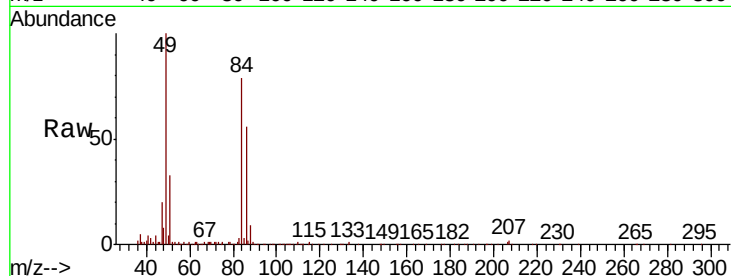




#20
Methylene Chloride
Concen: 7.975 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

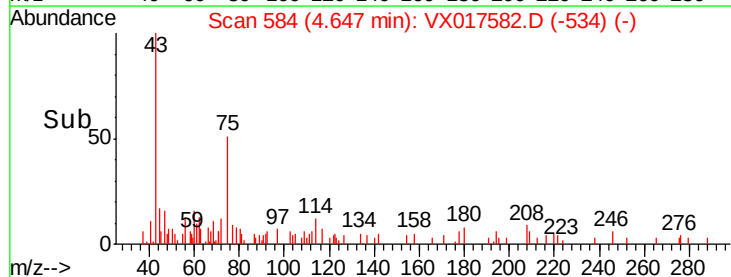
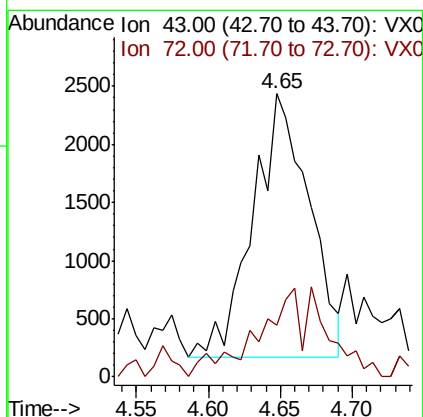
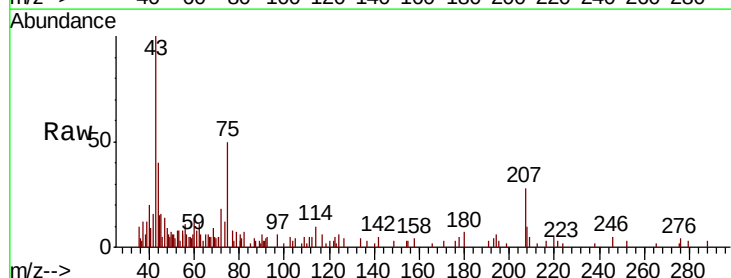
Instrument :
MSVOA_X
ClientSampleId :

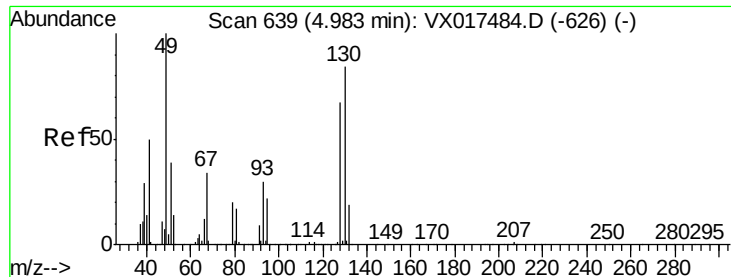
Tot Ion: 84 Resp: 43840
Ion Ratio Lower Upper
84 100
49 126.5 100.3 150.5
51 41.3 30.5 45.7
86 70.4 51.1 76.7



#25
2-Butanone
Concen: 1.693 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

Tgt Ion: 43 Resp: 6182
Ion Ratio Lower Upper
43 100
72 19.8 19.0 28.4

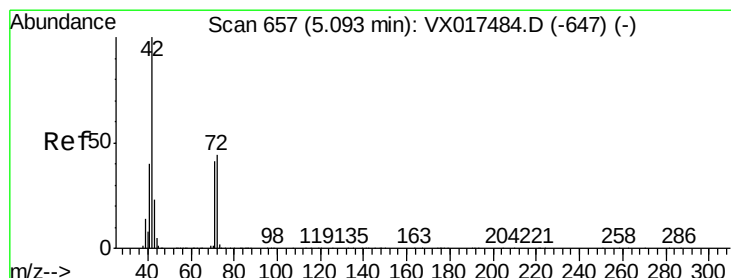
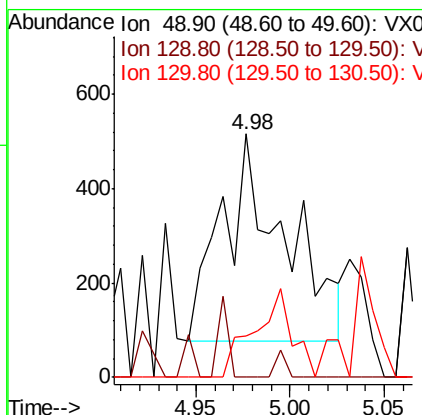
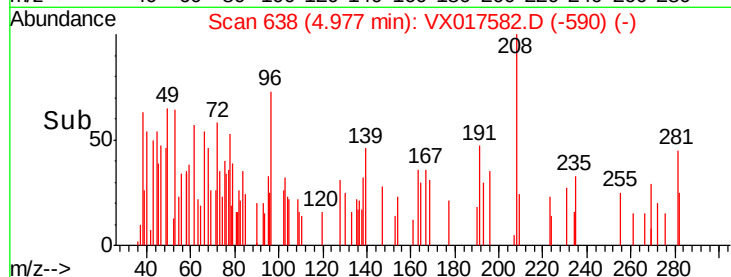
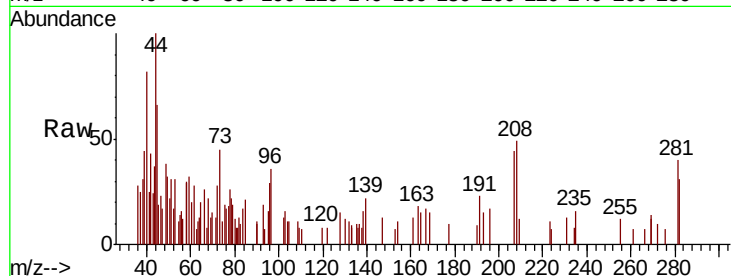




#28
Bromochloromethane
Concen: 0.251 ug/l
RT: 4.98 min Scan# 638
Delta R.T. -0.01 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

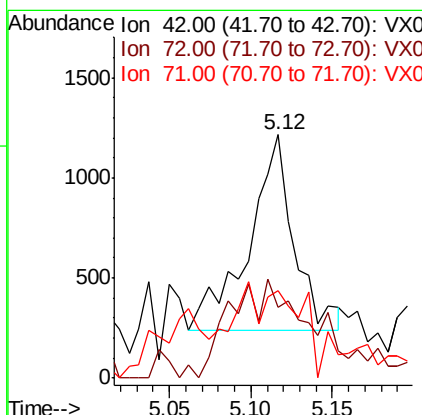
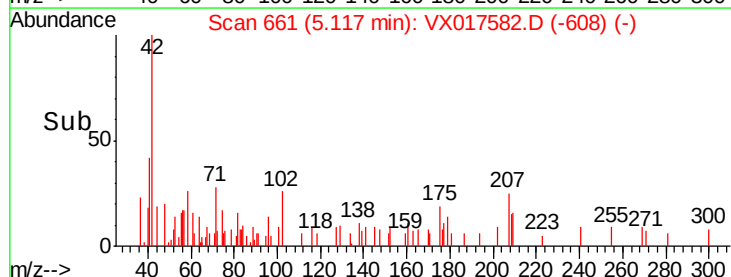
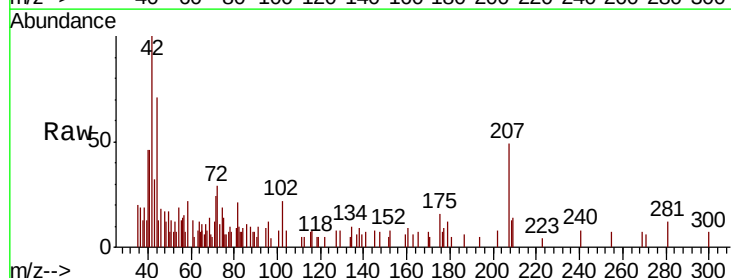
Instrument :
MSVOA_X
ClientSampled :

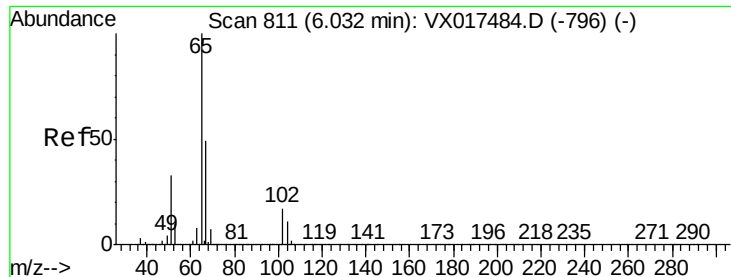
Tot Ion: 49 Resp: 1027
Ion Ratio Lower Upper
49 100
129 6.1 0.0 4.6#
130 0.0 66.7 100.1#



#29
Tetrahydrofuran
Concen: 0.841 ug/l
RT: 5.12 min Scan# 661
Delta R.T. 0.02 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

Tgt Ion: 42 Resp: 1903
Ion Ratio Lower Upper
42 100
72 36.8 35.5 53.3
71 11.6 33.0 49.4#

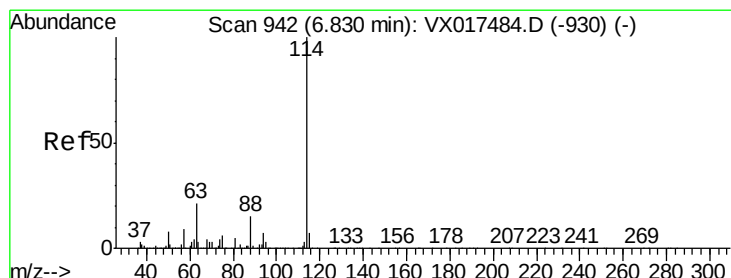
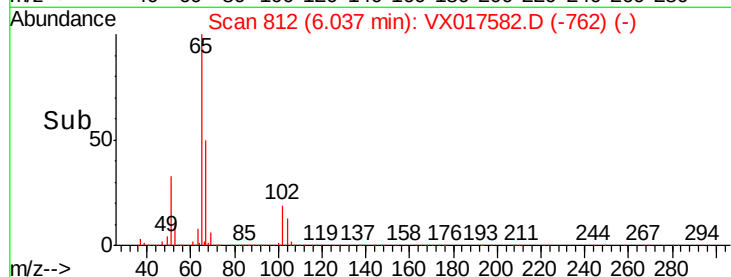
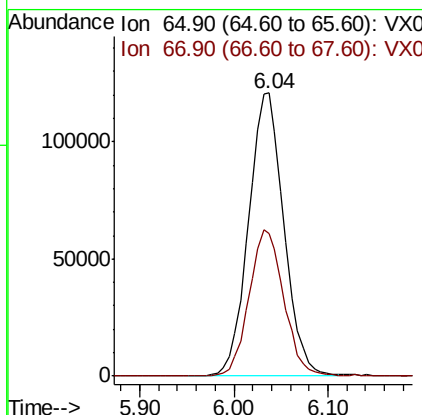
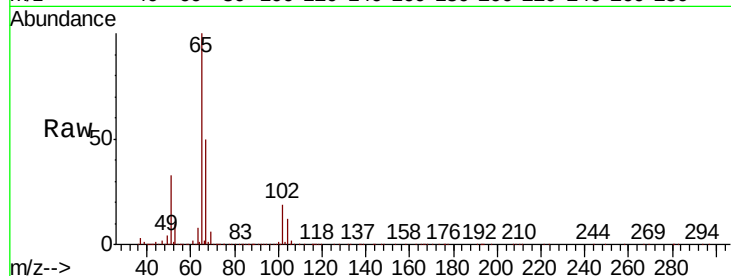




#33
 1,2-Dichloroethane-d4
 Concen: 54.423 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017582.D
 Acq: 25 Jul 2020 09:33

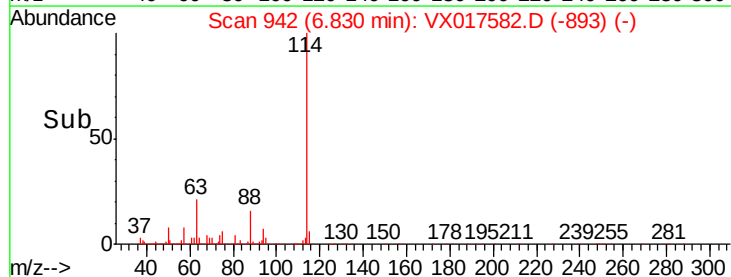
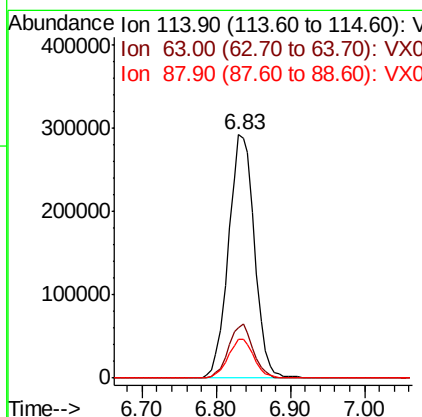
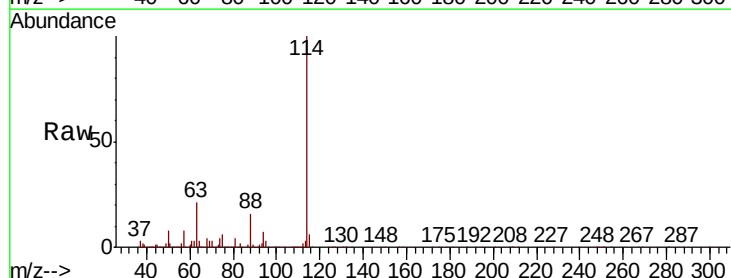
Instrument :
 MSVOA_X
 ClientSampleId :

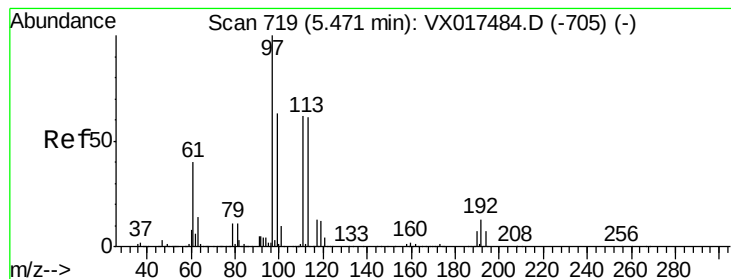
Tot Ion: 65 Resp: 317877
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017582.D
 Acq: 25 Jul 2020 09:33

Tgt Ion: 114 Resp: 713093
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.6
 88 16.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 54.751 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

ClientSampleId :

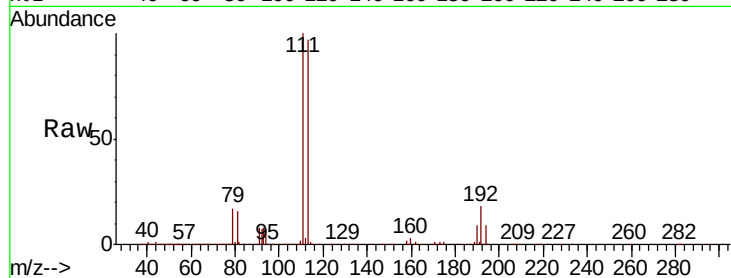
Tot Ion:113 Resp: 261121

Ion Ratio Lower Upper

113 100

111 103.3 80.7 121.1

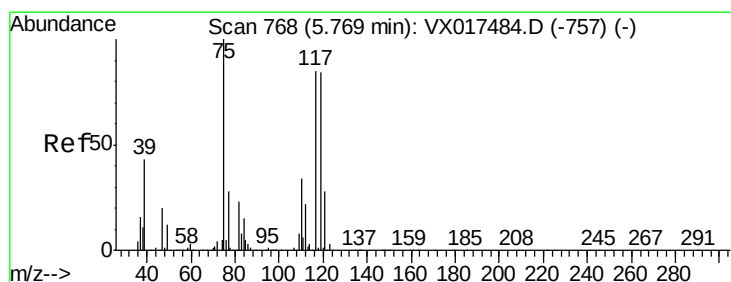
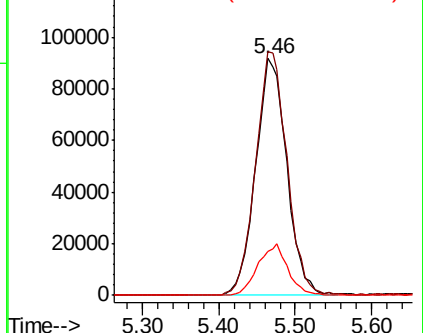
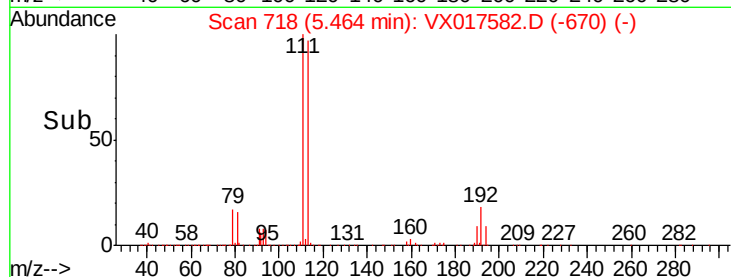
192 20.8 16.9 25.3



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: 4.908 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

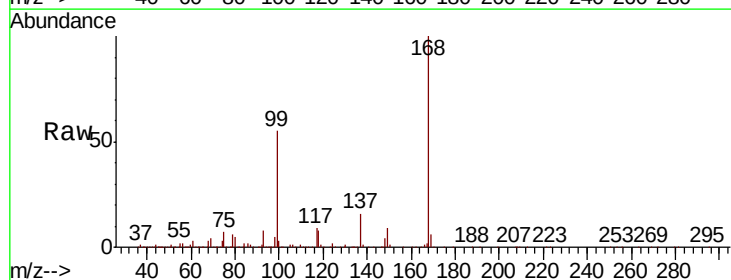
Tgt Ion: 75 Resp: 33565

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.3#

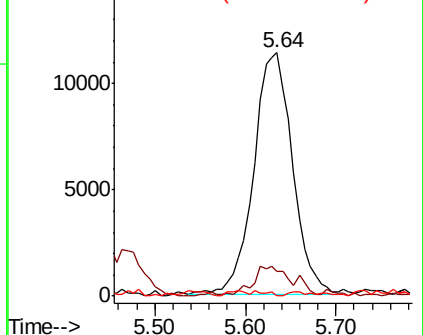
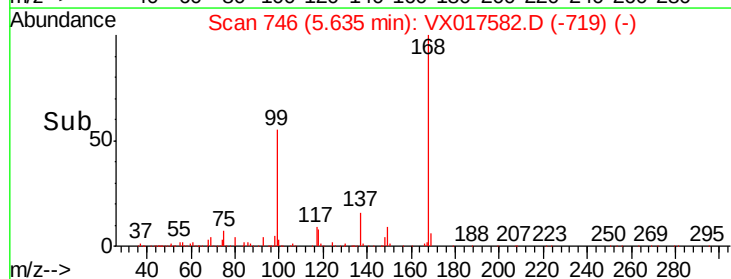
77 0.0 24.6 37.0#

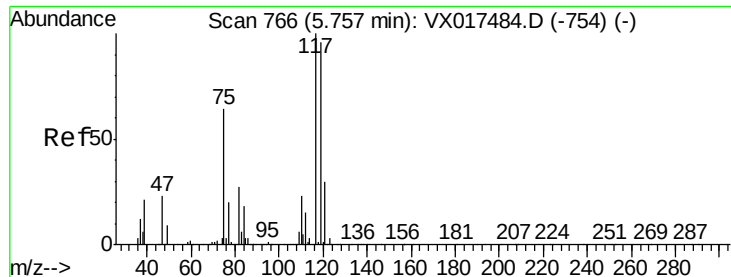


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.342 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

ClientSampleId :

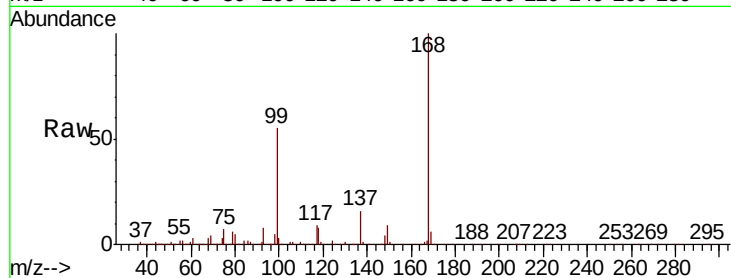
Tot Ion:117 Resp: 44365

Ion Ratio Lower Upper

117 100

119 6.3 75.4 113.0#

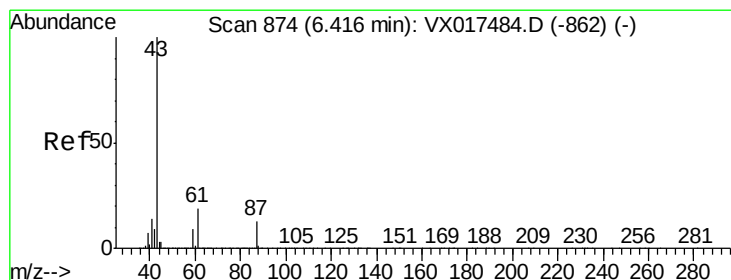
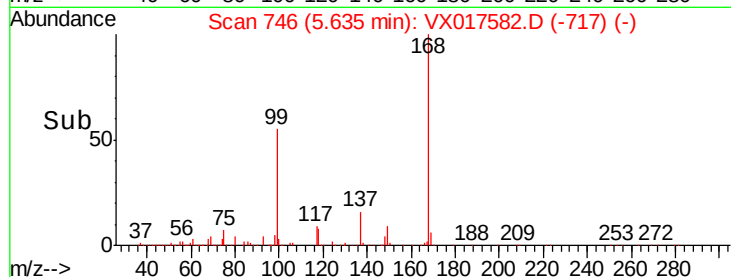
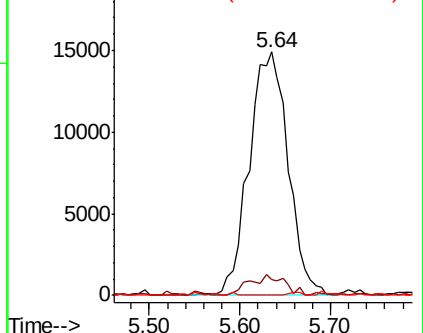
121 0.0 24.3 36.5#



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



#43

Isopropyl Acetate

Concen: 10.345 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

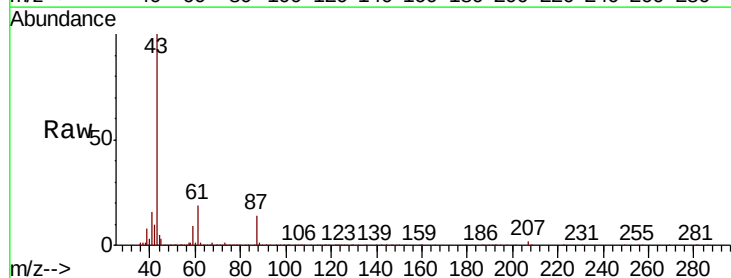
Tgt Ion: 43 Resp: 127731

Ion Ratio Lower Upper

43 100

61 18.8 15.5 23.3

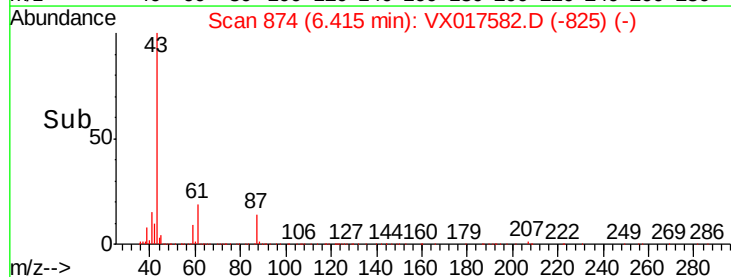
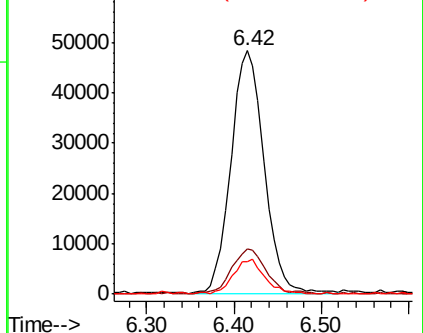
87 13.5 10.5 15.7

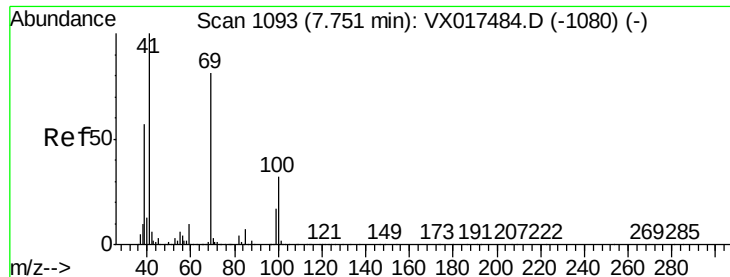


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

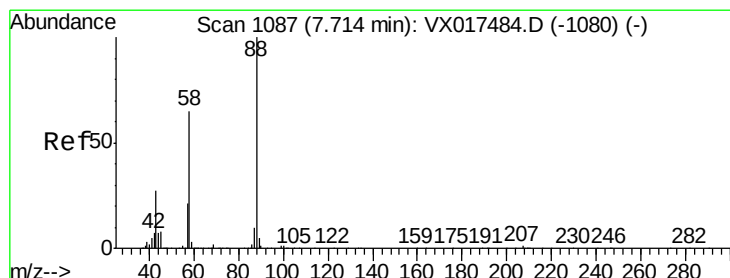
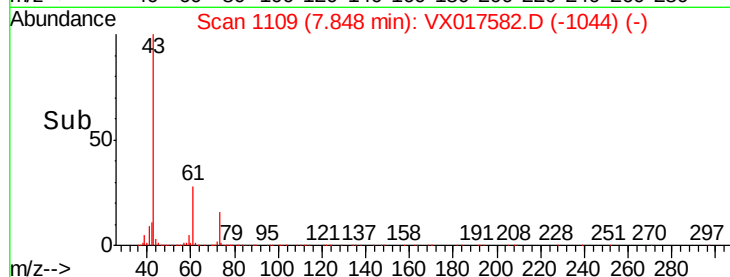
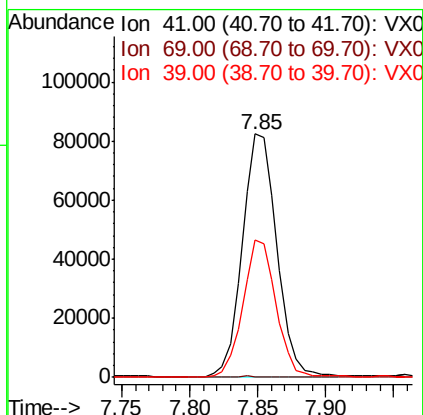
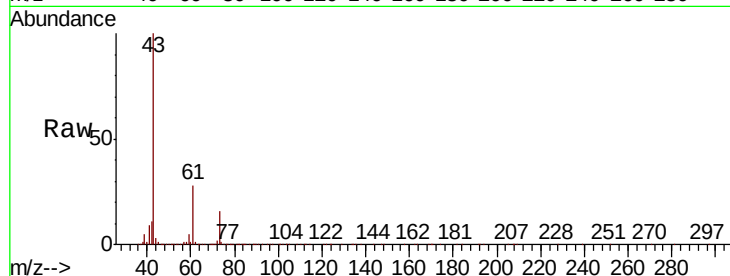




#48
Methvl methacrylate
Concen: 23.877 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

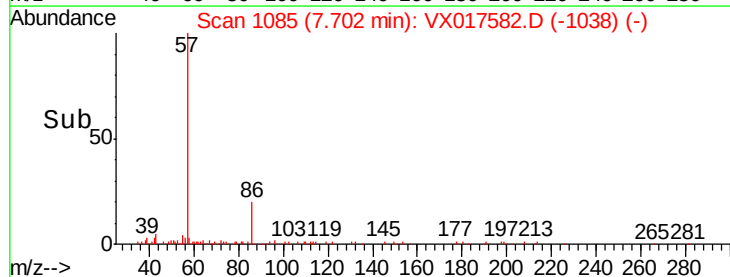
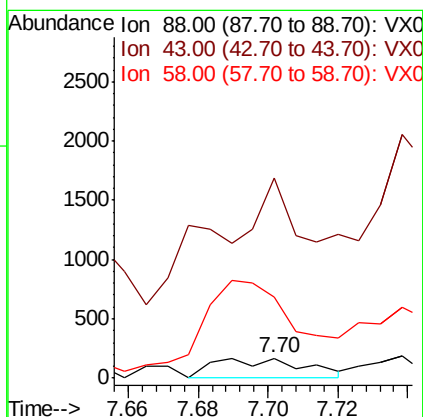
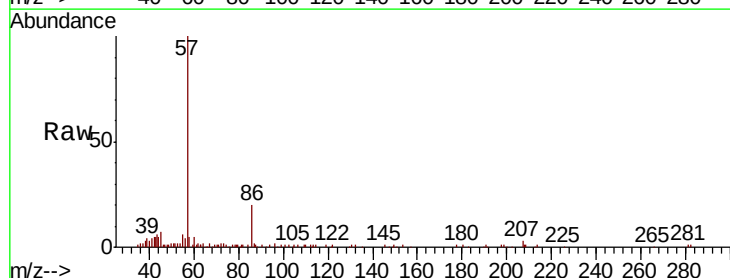
Instrument :
MSVOA_X
ClientSampleId :

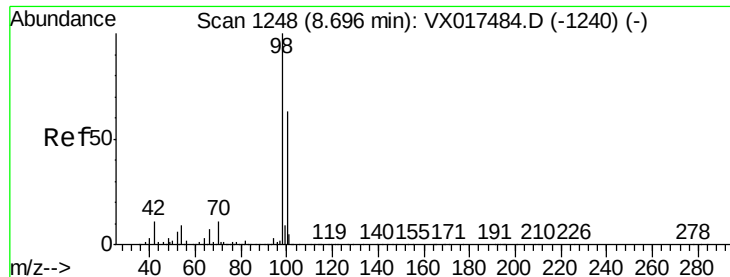
Tot Ion: 41 Resp: 146129
Ion Ratio Lower Upper
41 100
69 0.4 63.1 94.7#
39 53.7 45.1 67.7



#49
1,4-Dioxane
Concen: 2.497 ug/l
RT: 7.70 min Scan# 1085
Delta R.T. -0.01 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

Tgt Ion: 88 Resp: 293
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.6#
58 482.9 58.3 87.5#





#50

Toluene-d8

Concen: 50.545 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

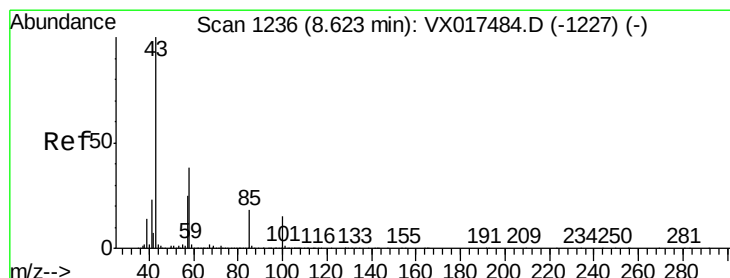
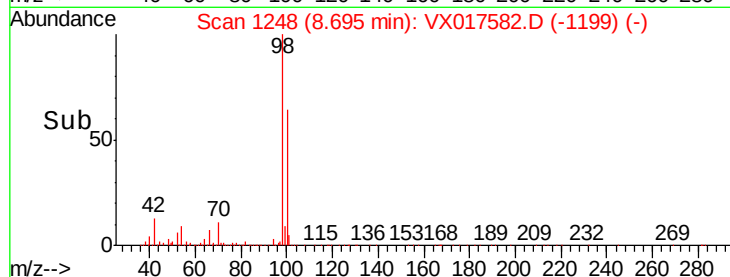
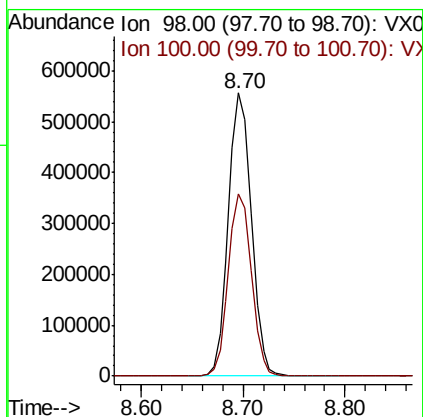
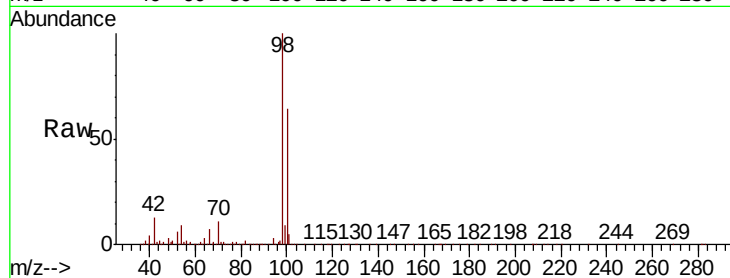
ClientSampleId :

Tot Ion: 98 Resp: 869619

Ion Ratio Lower Upper

98 100

100 64.7 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 16.770 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX017582.D

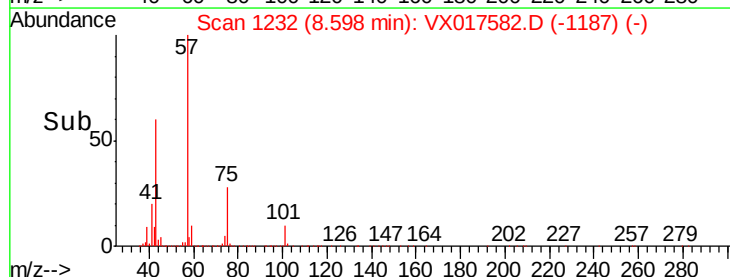
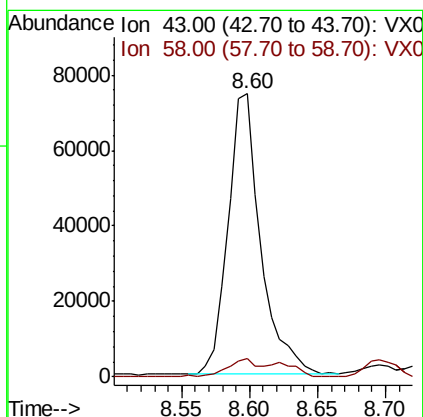
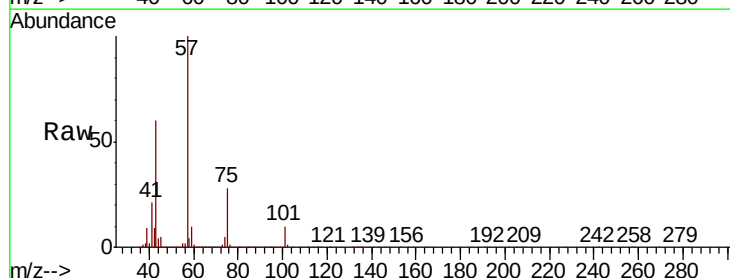
Acq: 25 Jul 2020 09:33

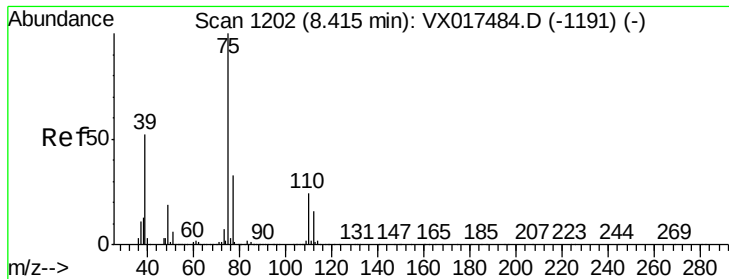
Tgt Ion: 43 Resp: 123539

Ion Ratio Lower Upper

43 100

58 6.4 31.0 46.4#





#54

cis-1,3-Dichloropropene

Concen: 5.878 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

ClientSampleId :

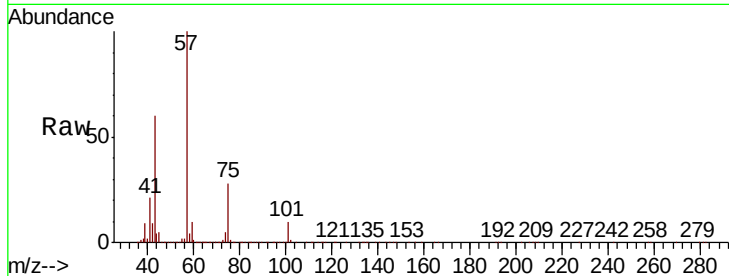
Tot Ion: 75 Resp: 51877

Ion Ratio Lower Upper

75 100

77 0.9 25.5 38.3#

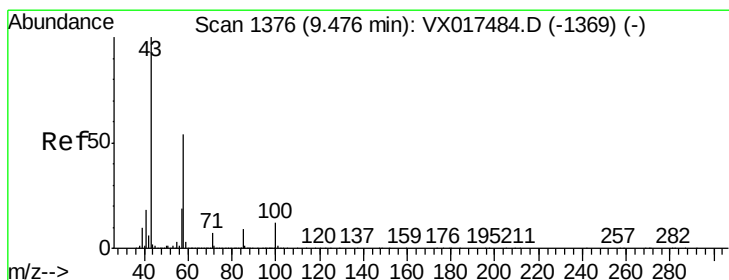
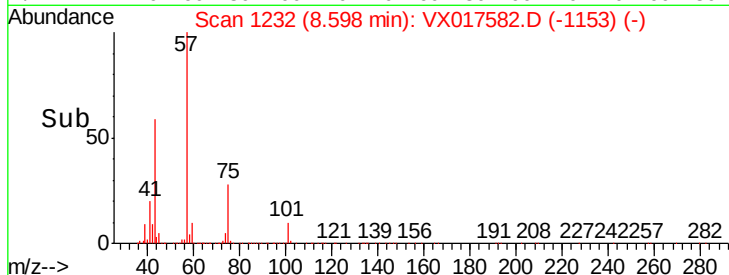
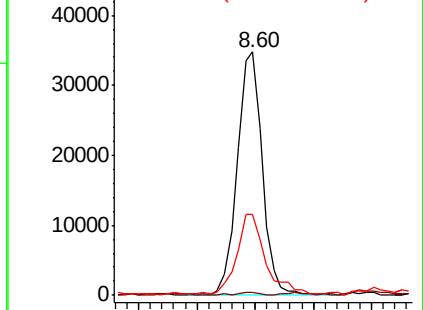
39 32.4 41.8 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 17.637 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX017582.D

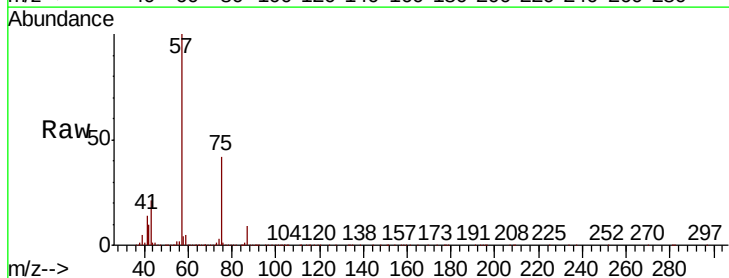
Acq: 25 Jul 2020 09:33

Tgt Ion: 43 Resp: 97823

Ion Ratio Lower Upper

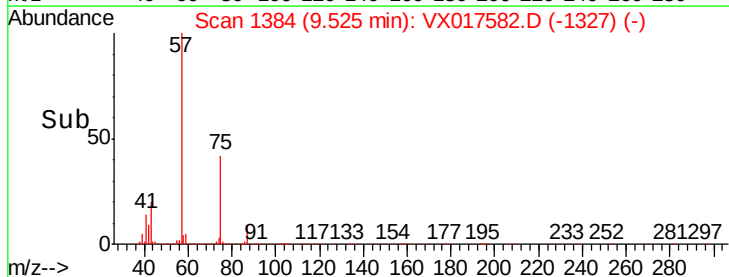
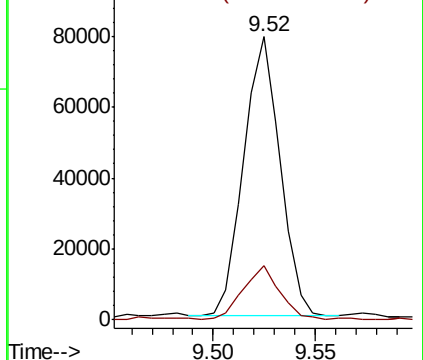
43 100

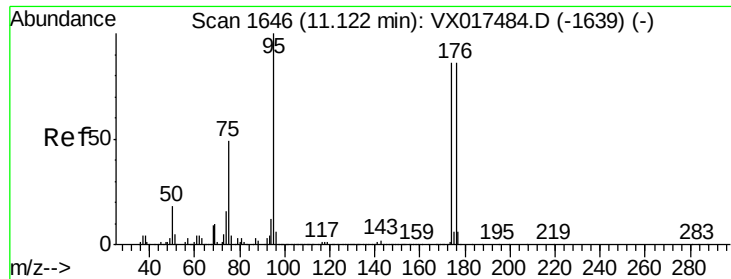
58 18.8 26.6 79.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

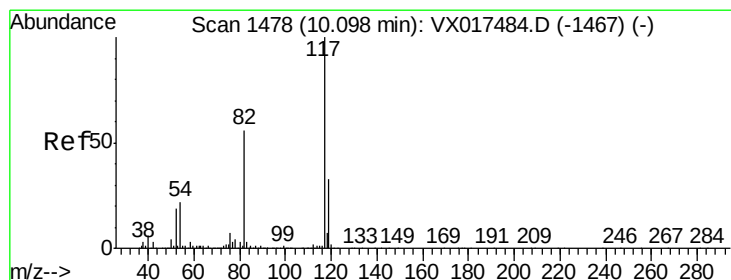
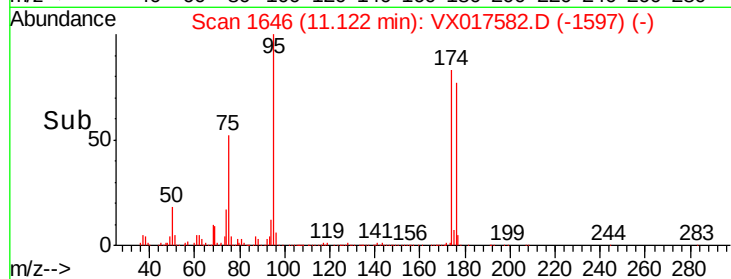
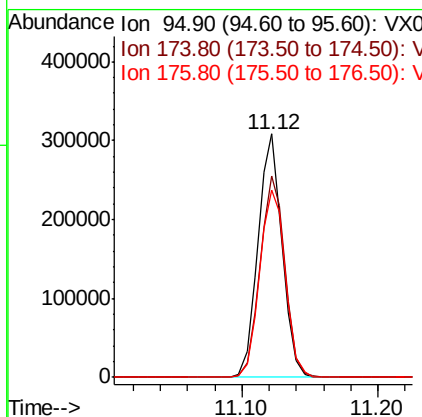
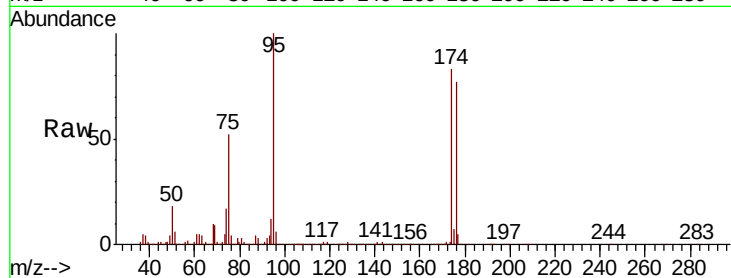




#62
4-Bromofluorobenzene
Concen: 55.844 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

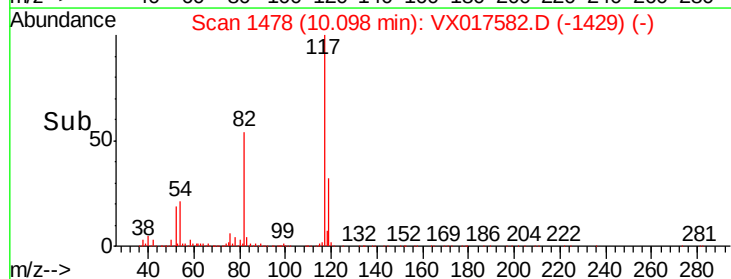
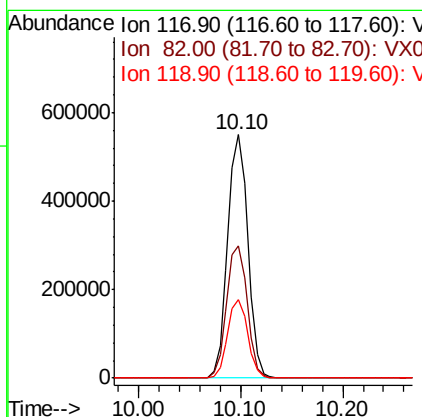
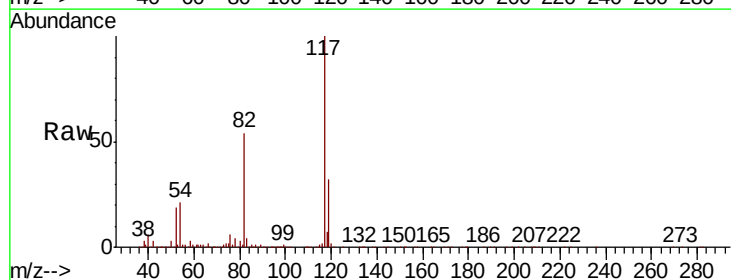
Instrument :
MSVOA_X
ClientSampleId :

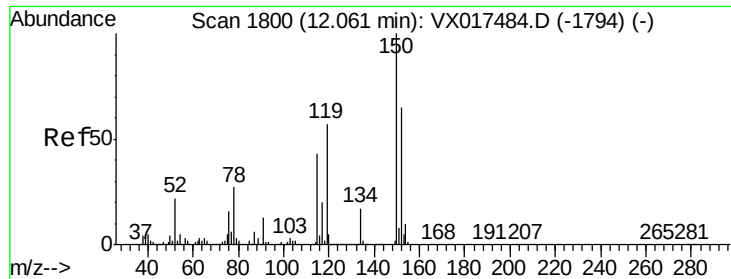
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	169.0
176	81.8	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017582.D
Acq: 25 Jul 2020 09:33

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.4	44.0	66.0
119	32.1	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

ClientSampleId :

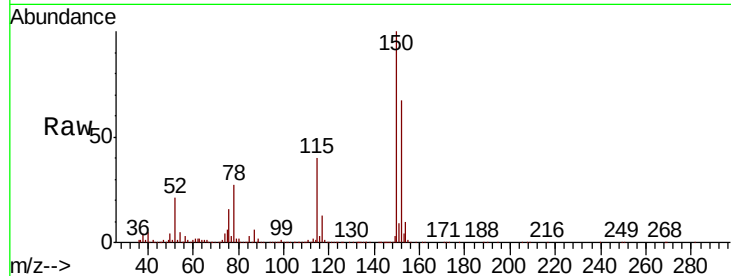
Tot Ion:152 Resp: 409153

Ion Ratio Lower Upper

152 100

115 58.9 65.5 196.6#

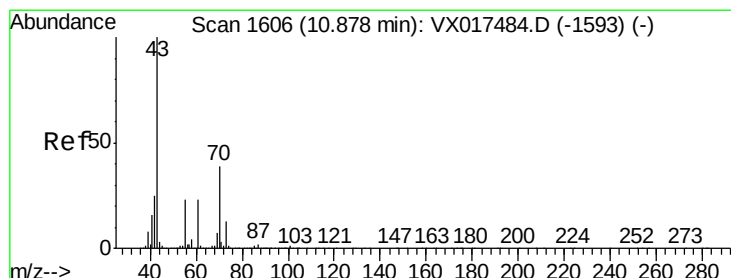
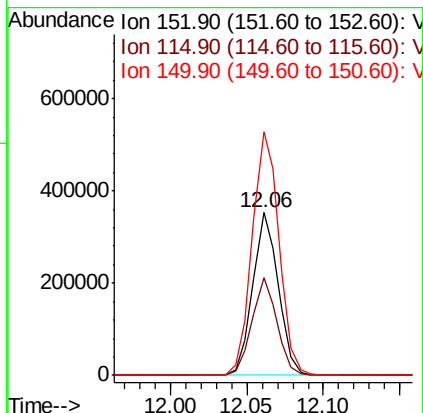
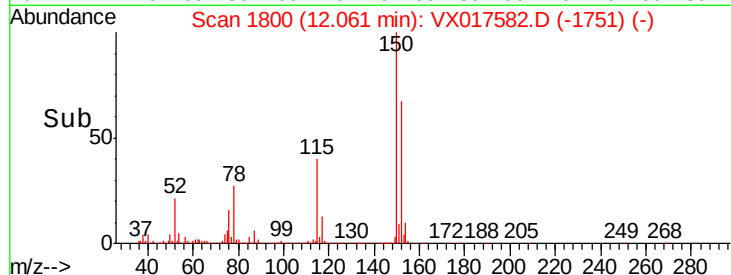
150 157.4 0.0 412.6



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



#74

N-ethyl acetate

Concen: 0.404 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Tgt Ion: 43 Resp: 5043

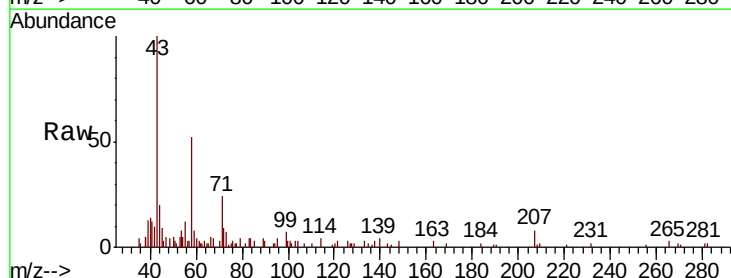
Ion Ratio Lower Upper

43 100

70 3.9 32.3 48.5#

55 15.5 18.4 27.6#

61 0.0 18.6 28.0#

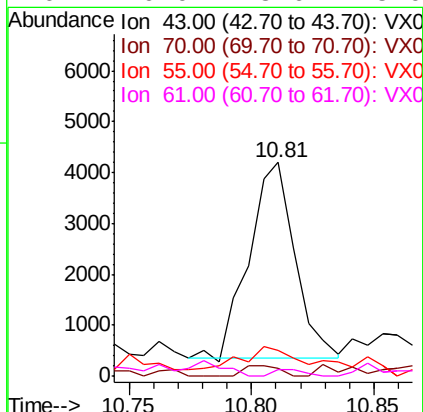
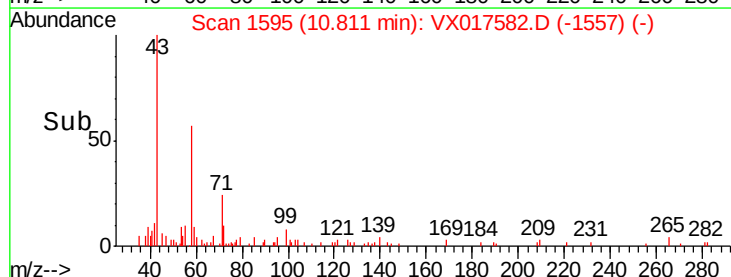


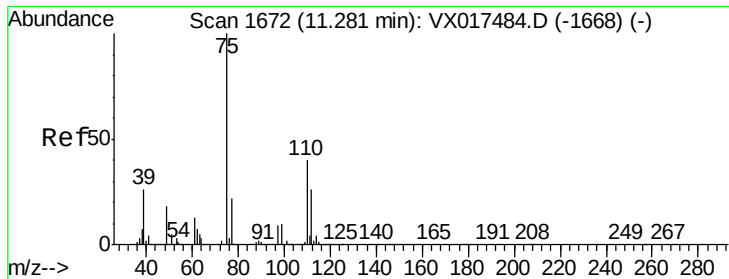
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.720 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

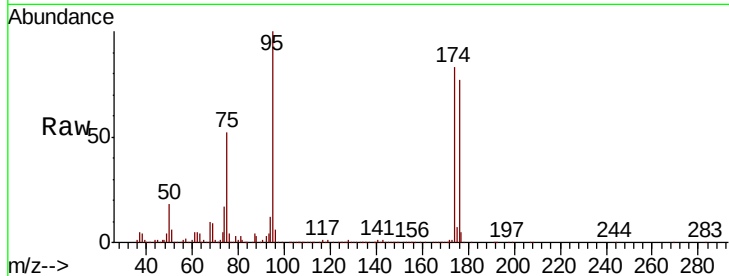
ClientSampleId :

Tot Ion: 75 Resp: 199639

Ion Ratio Lower Upper

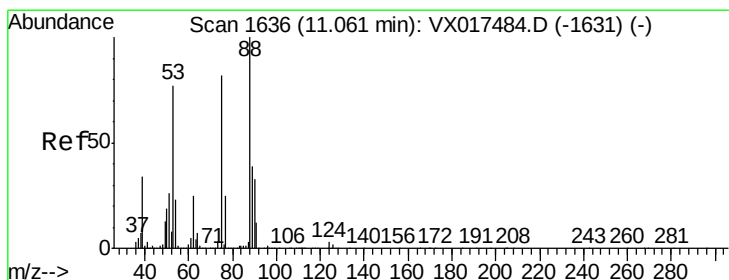
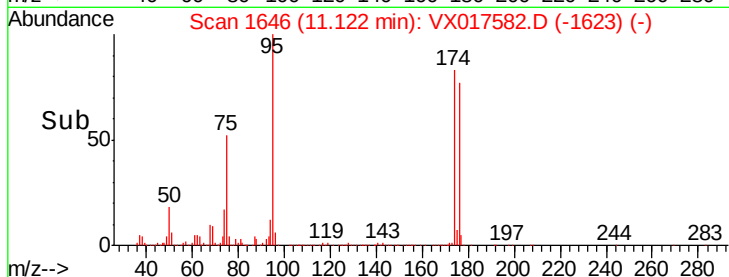
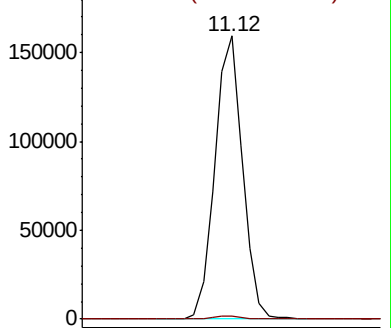
75 100

77 1.2 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: 59.769 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

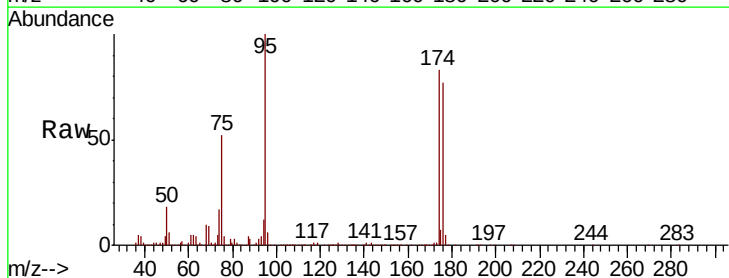
Tgt Ion: 75 Resp: 199639

Ion Ratio Lower Upper

75 100

53 0.1 75.9 113.9#

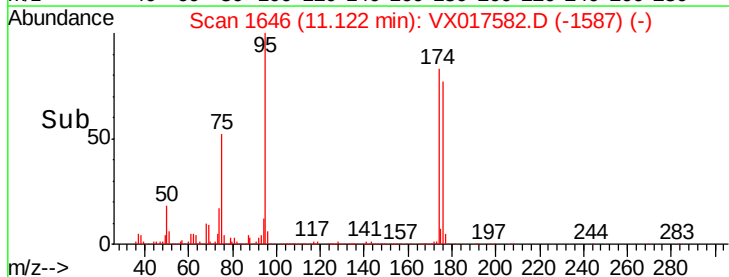
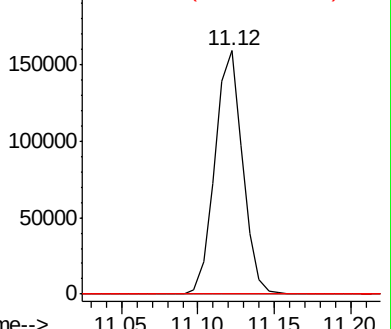
89 0.1 37.8 56.6#

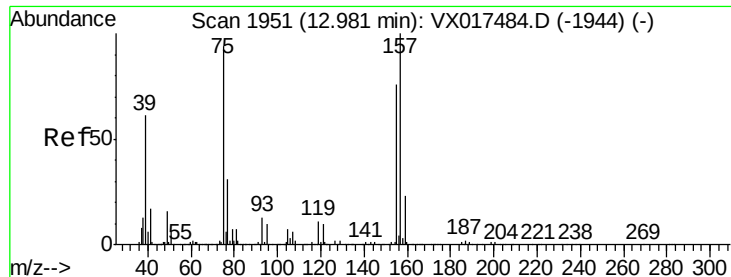


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.649 ug/l

RT: 12.97 min Scan# 1949

Delta R.T. -0.01 min

Lab File: VX017582.D

Acq: 25 Jul 2020 09:33

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 189

Ion Ratio Lower Upper

75 100

155 61.9 42.3 126.8

157 0.0 54.3 162.9#

