

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017780.D
 Acq On : 04 Aug 2020 19:14
 Operator : JC/SP
 Sample : L3548-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CRT-012

Quant Time: Aug 05 01:52:17 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	578905	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	890887	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	821829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	400211	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	394762	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
35) Dibromofluoromethane	5.47	113	303435	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
50) Toluene-d8	8.70	98	1097957	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
62) 4-Bromofluorobenzene	11.12	95	381957	44.40	ug/l	0.00
Spiked Amount			Recovery	=	88.80%	

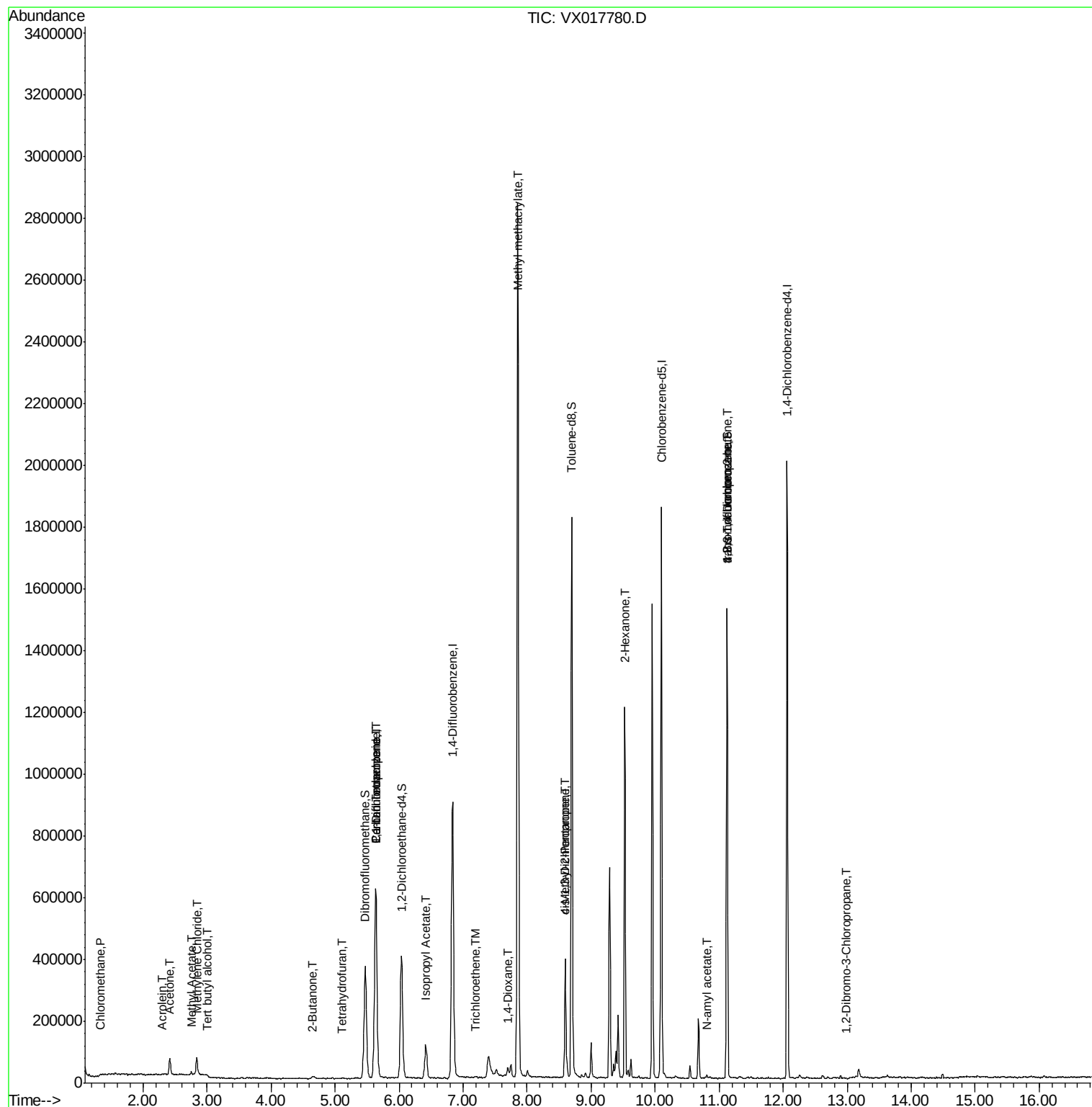
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	217	Below Cal	#	47
3) Chloromethane	1.33	50	607	0.451	ug/l #	59
5) Bromomethane	1.64	94	276	Below Cal		83
6) Chloroethane	1.70	64	349	Below Cal		92
8) Diethyl Ether	2.17	74	1406	Below Cal		86
11) Tert butyl alcohol	3.01	59	2909	1.856	ug/l	98
13) Acrolein	2.29	56	369	4.452	ug/l #	6
16) Acetone	2.42	43	58991	18.024	ug/l	92
18) Methyl Acetate	2.75	43	10199	1.323	ug/l #	83
20) Methylene Chloride	2.84	84	25868	2.989	ug/l #	93
25) 2-Butanone	4.64	43	9838	2.116	ug/l #	86
29) Tetrahydrofuran	5.10	42	1244	0.432	ug/l #	89
36) 1,1-Dichloropropene	5.63	75	43845	5.131	ug/l #	52
38) Carbon Tetrachloride	5.64	117	61860	5.962	ug/l #	17
43) Isopropyl Acetate	6.42	43	148172	9.606	ug/l	98
44) Trichloroethene	7.20	130	1519	0.212	ug/l	51
48) Methyl methacrylate	7.85	41	238739	31.224	ug/l #	46
49) 1,4-Dioxane	7.70	88	203	1.385	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	142808	15.517	ug/l #	48
54) cis-1,3-Dichloropropene	8.60	75	58554	5.311	ug/l #	60
59) 2-Hexanone	9.52	43	136112	19.643	ug/l #	51
74) N-amyl acetate	10.81	43	5782	0.474	ug/l #	53
76) 1,2,3-Trichloropropane	11.12	75	198849	24.154	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	198849	60.863	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	246	2.673	ug/l #	61

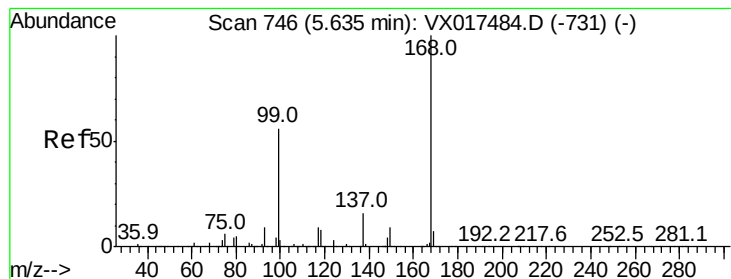
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

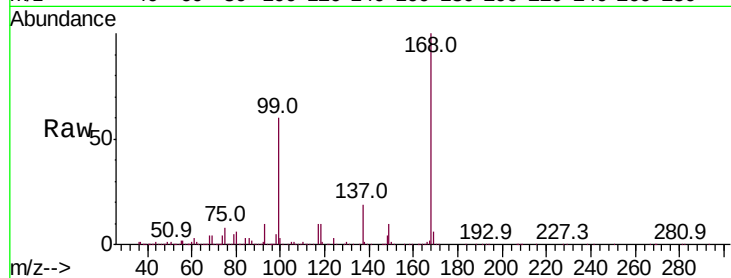
CRT-012

Tot Ion:168 Resp: 578905

Ion Ratio Lower Upper

168 100

99 59.8 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

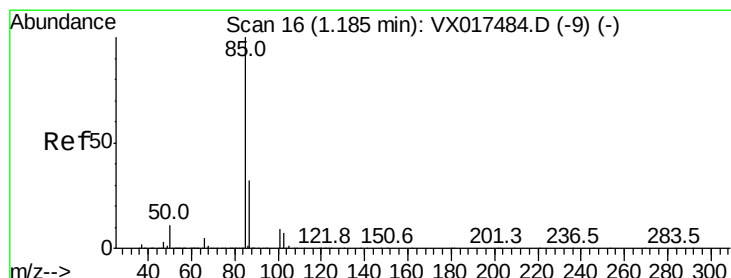
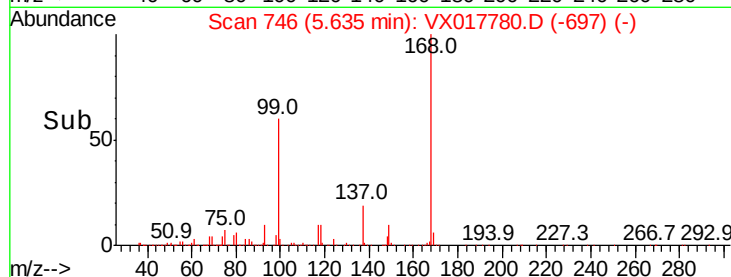
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.17 min Scan# 14

Delta R.T. -0.01 min

Lab File: VX017780.D

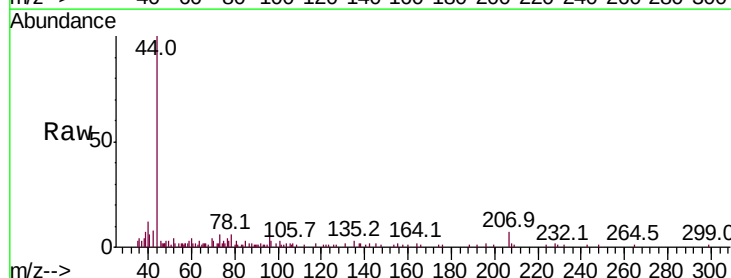
Acq: 04 Aug 2020 19:14

Tgt Ion: 85 Resp: 217

Ion Ratio Lower Upper

85 100

87 61.7 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.17

250

200

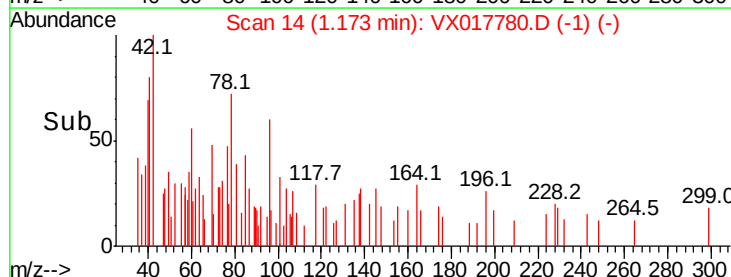
150

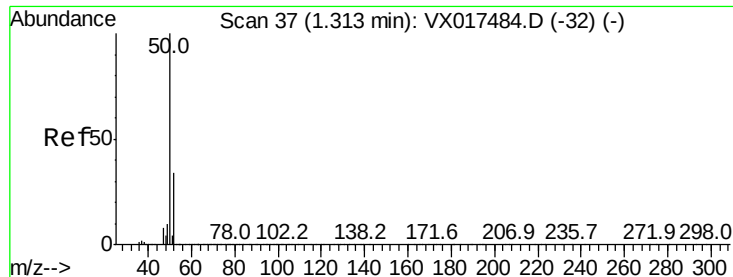
100

50

0

Time-->





#3

Chloromethane

Concen: 0.451 ug/l

RT: 1.33 min Scan# 39

Delta R.T. 0.01 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

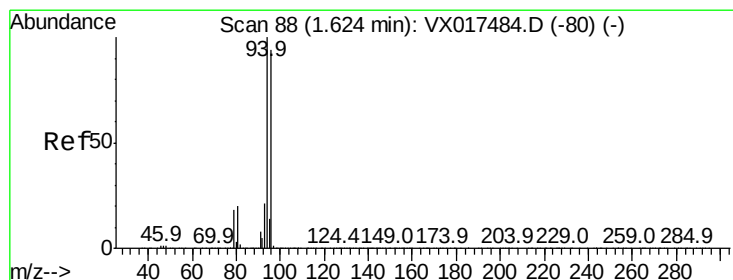
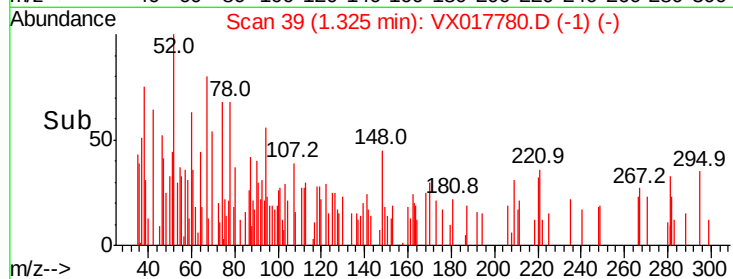
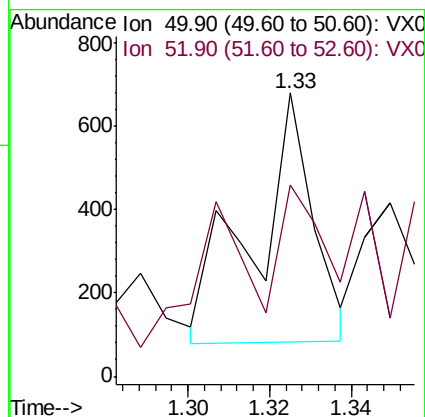
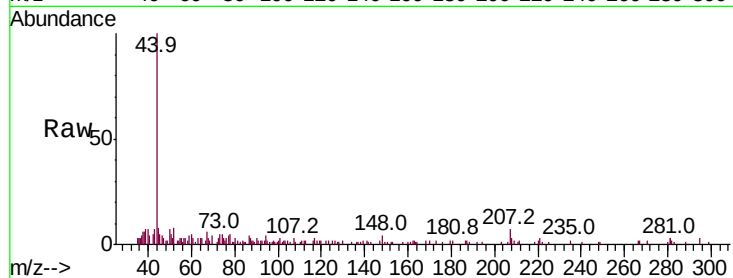
CRT-012

Tot Ion: 50 Resp: 607

Ion Ratio Lower Upper

50 100

52 55.5 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017780.D

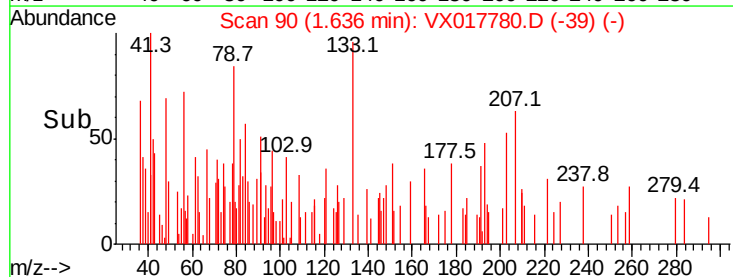
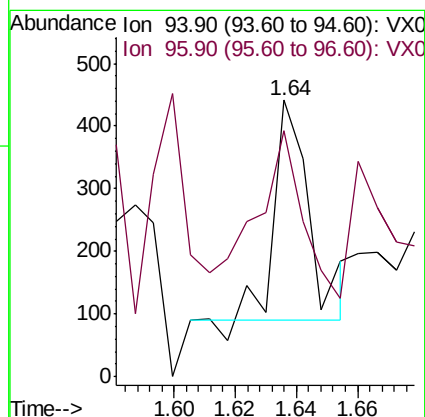
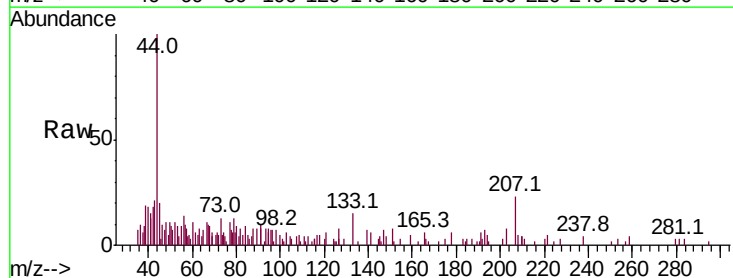
Acq: 04 Aug 2020 19:14

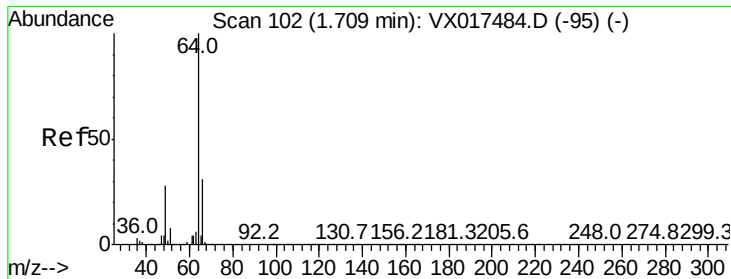
Tgt Ion: 94 Resp: 276

Ion Ratio Lower Upper

94 100

96 76.4 74.1 111.1





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. -0.01 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampled :

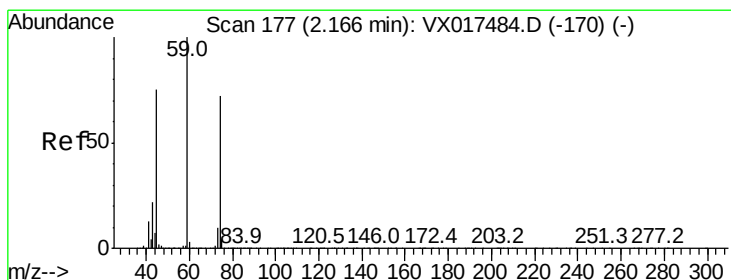
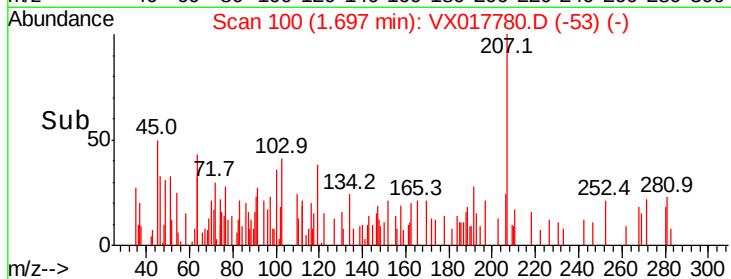
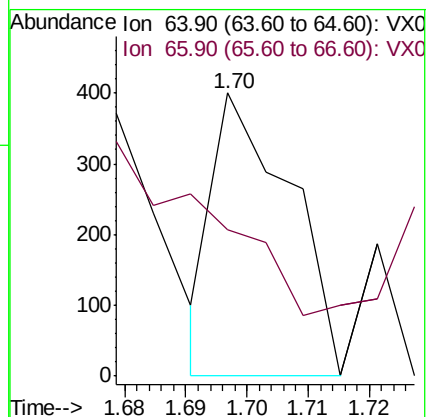
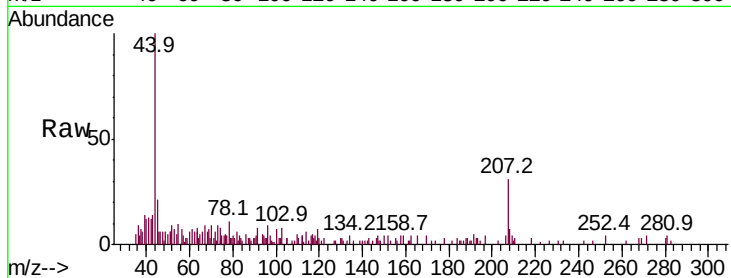
CRT-012

Tot Ion: 64 Resp: 349

Ion Ratio Lower Upper

64 100

66 26.5 24.9 37.3



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017780.D

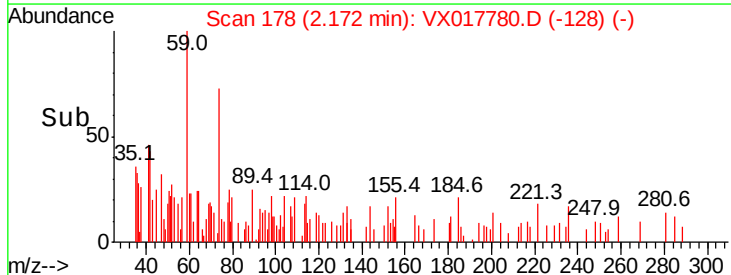
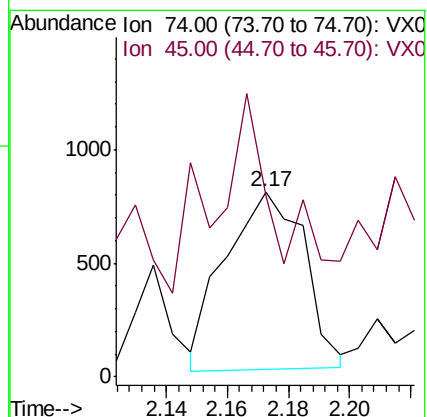
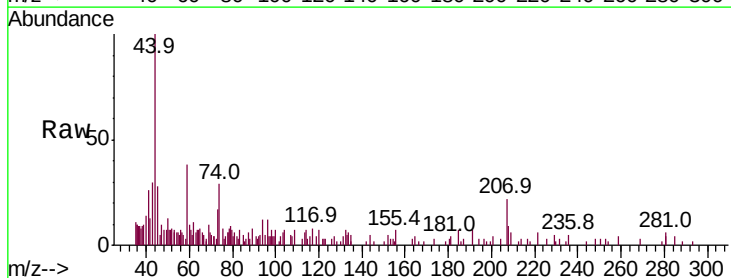
Acq: 04 Aug 2020 19:14

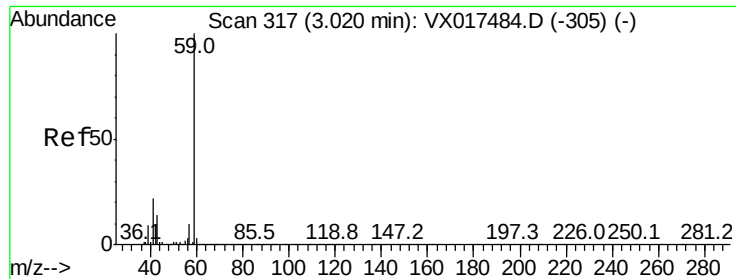
Tgt Ion: 74 Resp: 1406

Ion Ratio Lower Upper

74 100

45 88.0 50.8 152.5



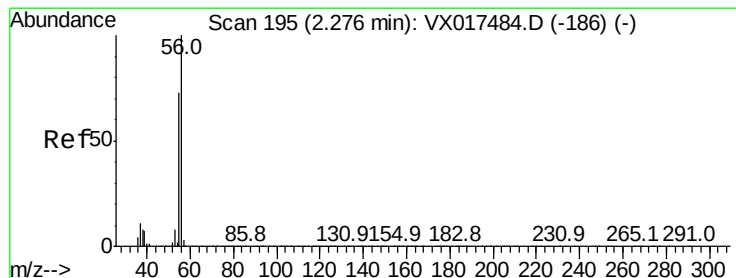
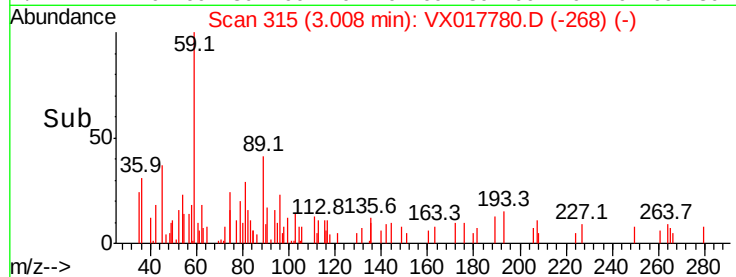
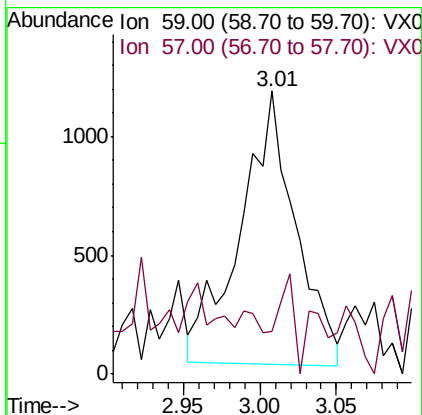
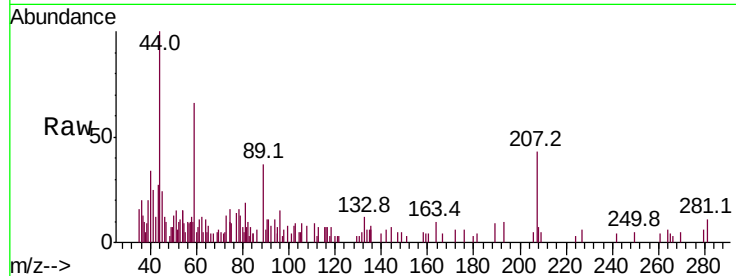


#11

Tert butyl alcohol
 Concen: 1.856 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX017780.D
 Acq: 04 Aug 2020 19:14

Instrument :
 MSVOA_X
 ClientSampled :
 CRT-012

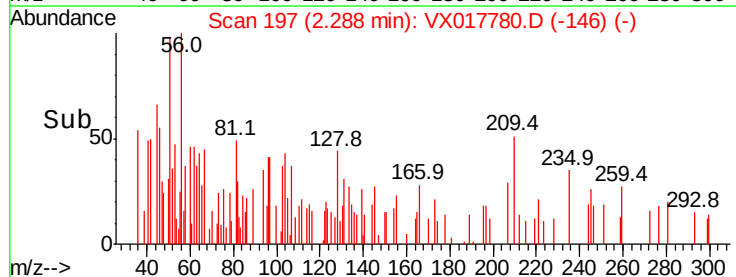
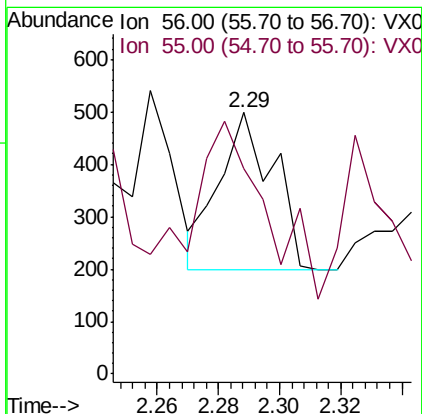
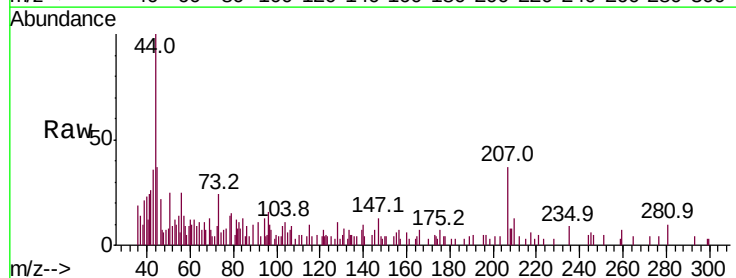
Tot Ion: 59 Resp: 2909
 Ion Ratio Lower Upper
 59 100
 57 11.4 8.6 12.8

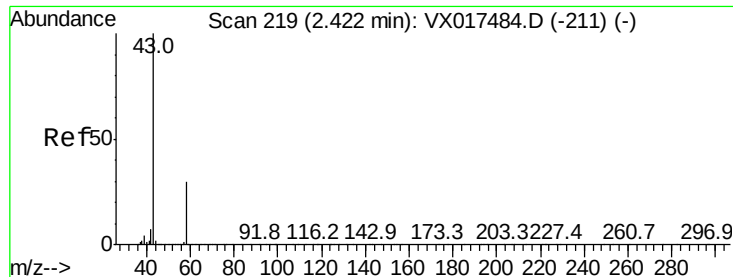


#13

Acrolein
 Concen: 4.452 ug/l
 RT: 2.29 min Scan# 197
 Delta R.T. 0.01 min
 Lab File: VX017780.D
 Acq: 04 Aug 2020 19:14

Tgt Ion: 56 Resp: 369
 Ion Ratio Lower Upper
 56 100
 55 149.9 57.4 86.2#

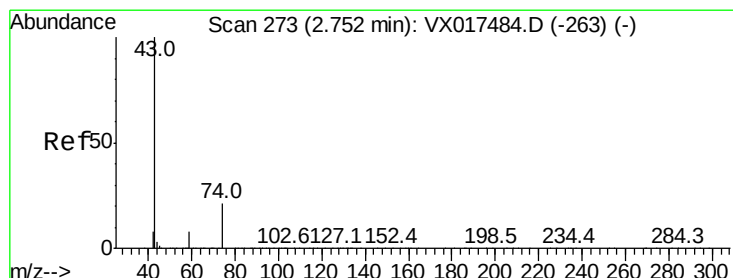
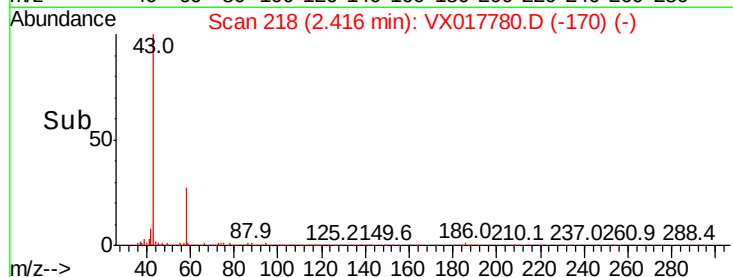
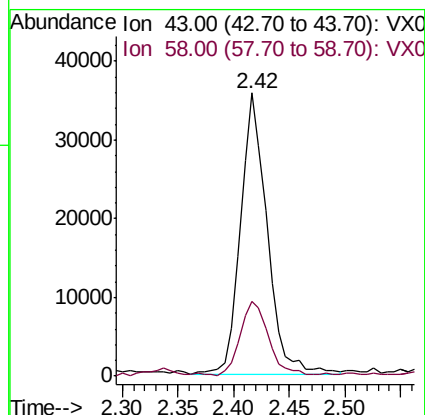
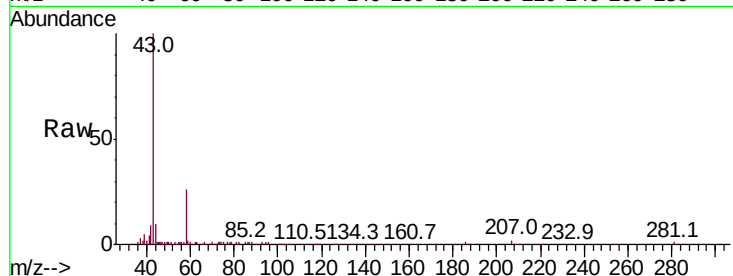




#16
Acetone
Concen: 18.024 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017780.D
Acq: 04 Aug 2020 19:14

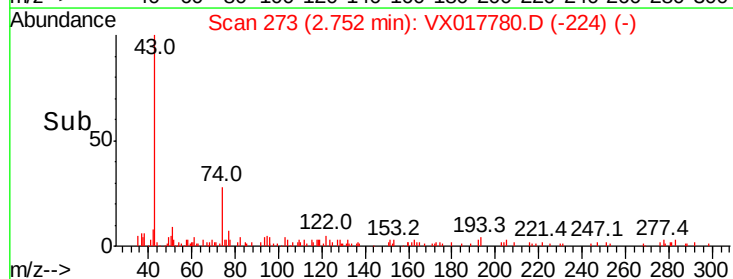
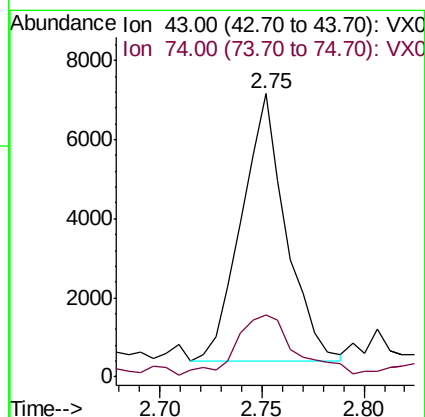
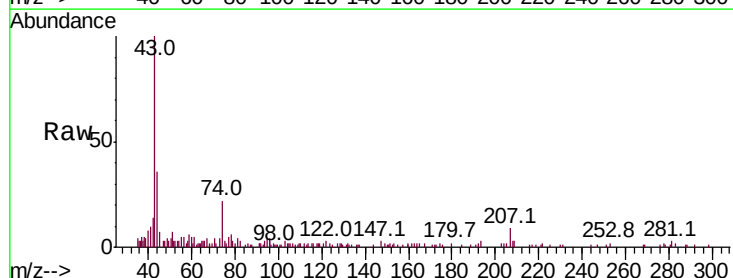
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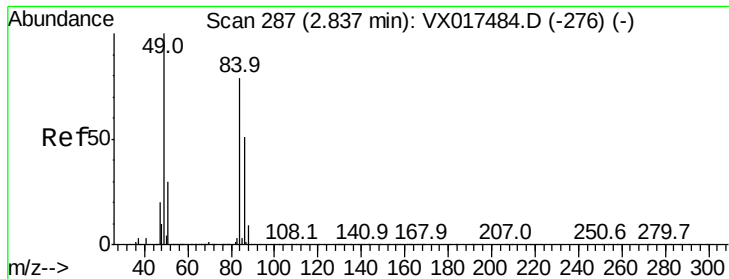
Tot Ion: 43 Resp: 58991
Ion Ratio Lower Upper
43 100
58 26.0 24.2 36.4



#18
Methyl Acetate
Concen: 1.323 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX017780.D
Acq: 04 Aug 2020 19:14

Tgt Ion: 43 Resp: 10199
Ion Ratio Lower Upper
43 100
74 29.9 17.5 26.3#

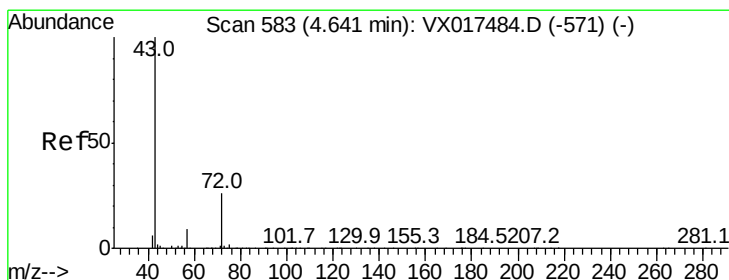
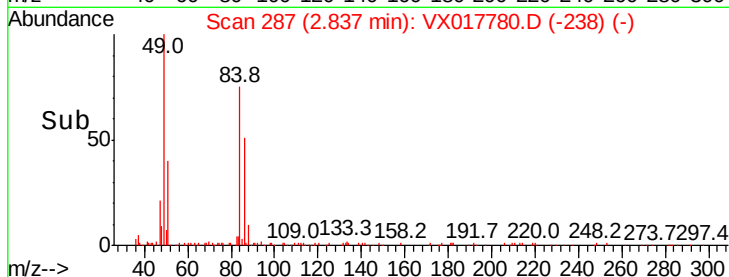
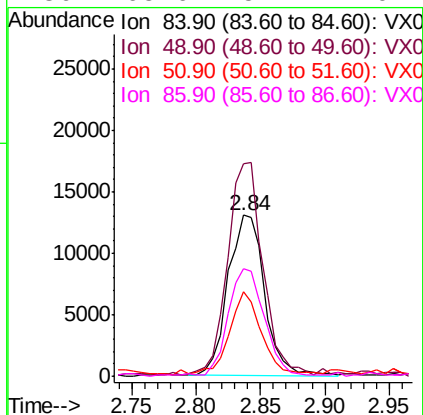
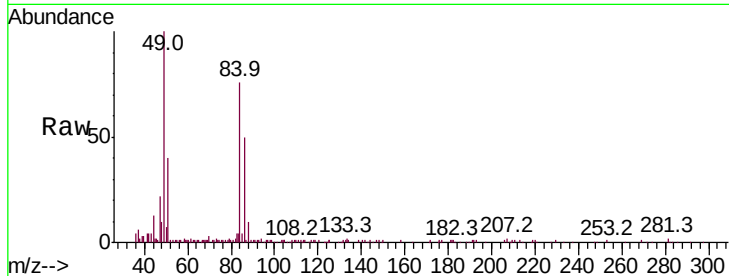




#20
Methylene Chloride
Concen: 2.989 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017780.D
Acq: 04 Aug 2020 19:14

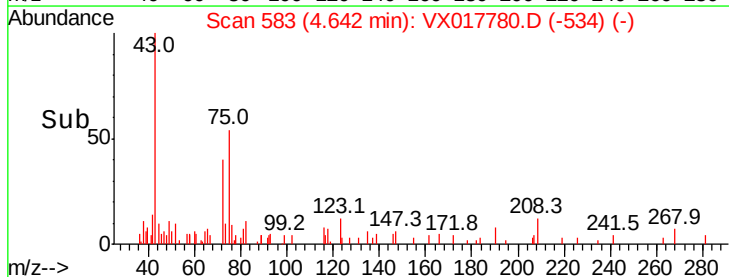
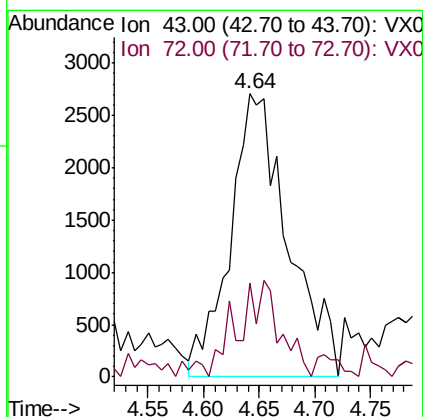
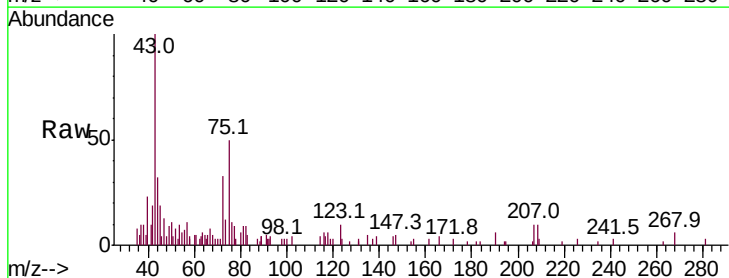
Instrument :
MSVOA_X
ClientSampled :
CRT-012

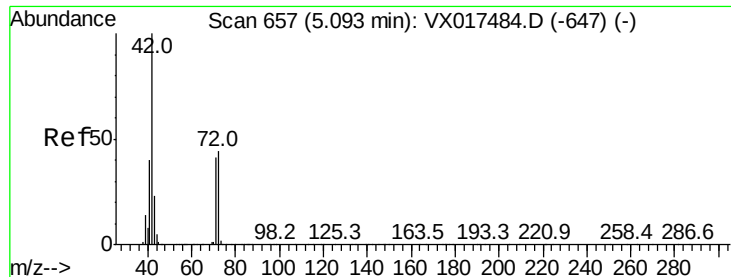
Tot Ion: 84 Resp: 25868
Ion Ratio Lower Upper
84 100
49 131.5 100.3 150.5
51 50.9 30.5 45.7#
86 65.6 51.1 76.7



#25
2-Butanone
Concen: 2.116 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.00 min
Lab File: VX017780.D
Acq: 04 Aug 2020 19:14

Tgt Ion: 43 Resp: 9838
Ion Ratio Lower Upper
43 100
72 30.7 19.0 28.4#





#29

Tetrahydrofuran

Concen: 0.432 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampled :

CRT-012

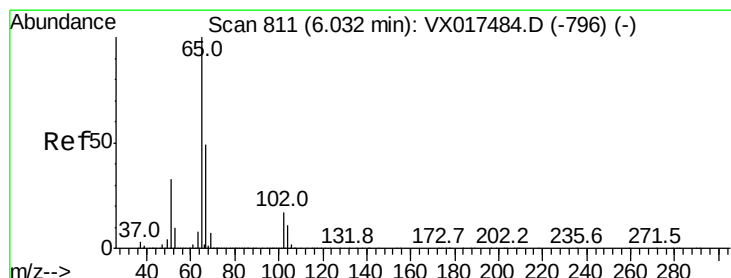
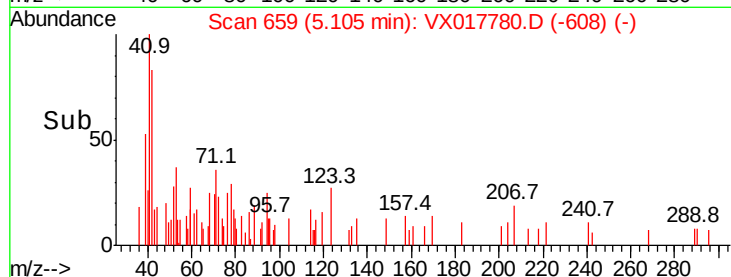
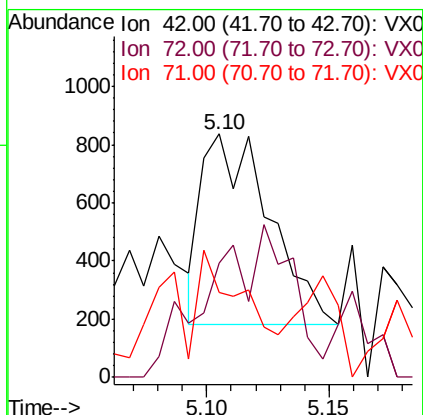
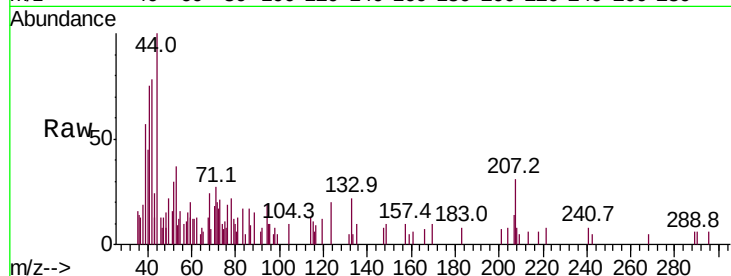
Tot Ion: 42 Resp: 1244

Ion Ratio Lower Upper

42 100

72 54.3 35.5 53.3#

71 37.1 33.0 49.4



#33

1,2-Dichloroethane-d4

Concen: 53.086 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017780.D

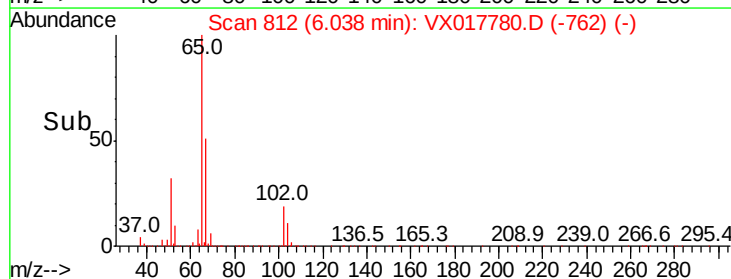
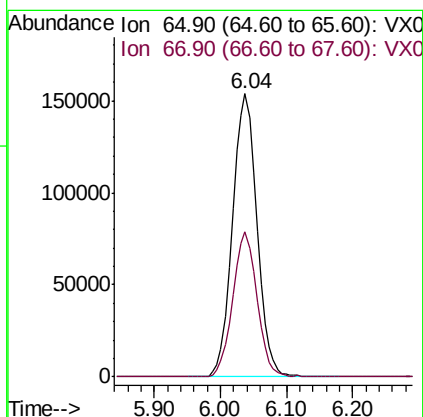
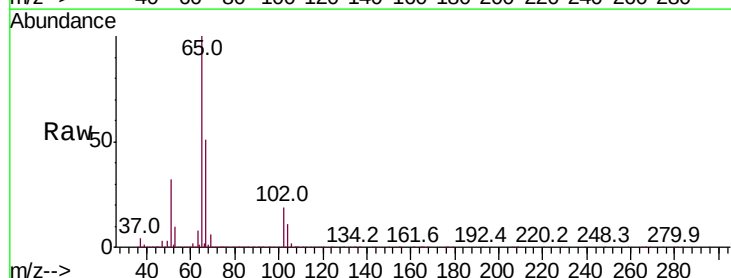
Acq: 04 Aug 2020 19:14

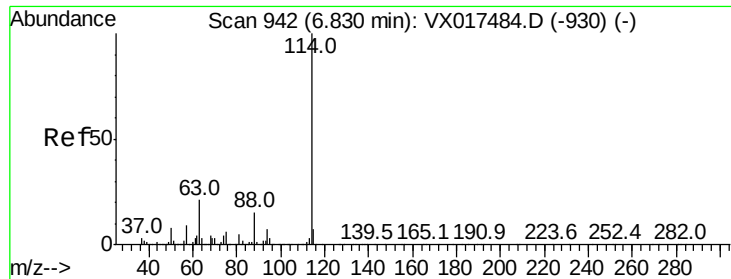
Tgt Ion: 65 Resp: 394762

Ion Ratio Lower Upper

65 100

67 50.3 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: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

CRT-012

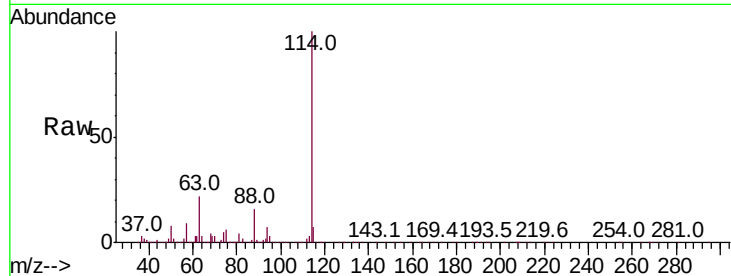
Tot Ion:114 Resp: 890887

Ion Ratio Lower Upper

114 100

63 21.9 0.0 40.6

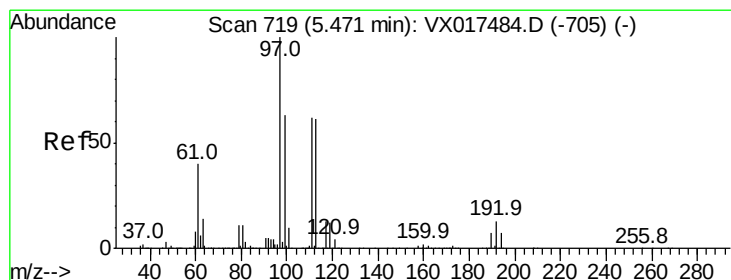
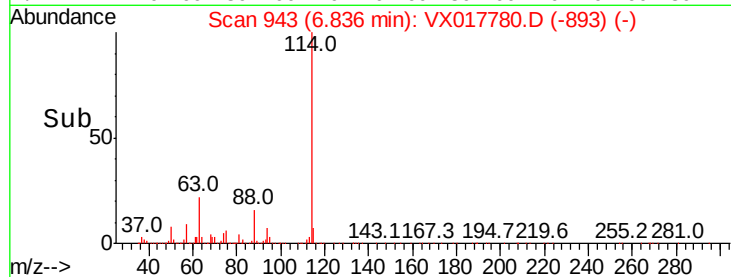
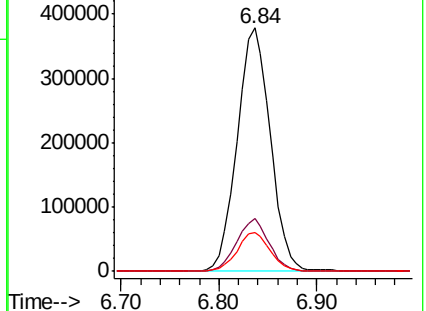
88 15.9 0.0 33.4



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: 50.926 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

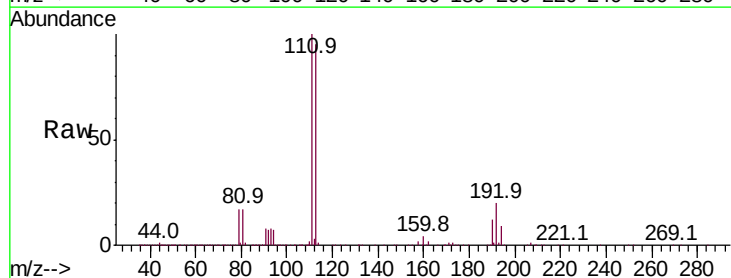
Tgt Ion:113 Resp: 303435

Ion Ratio Lower Upper

113 100

111 102.8 80.7 121.1

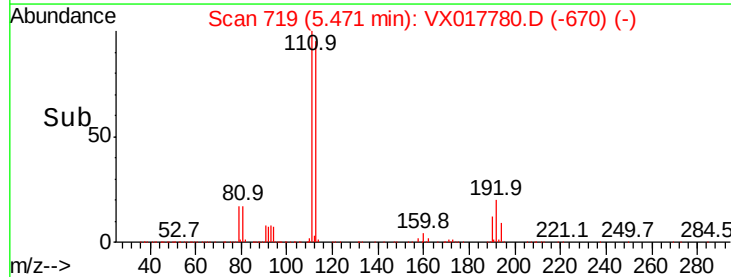
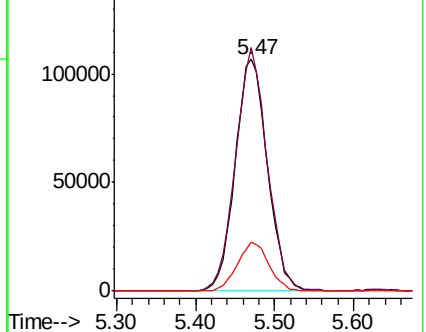
192 20.8 16.9 25.3

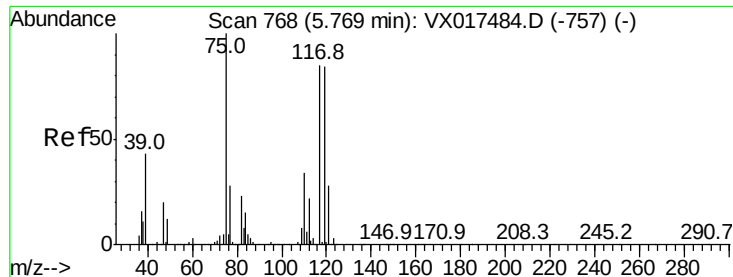


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

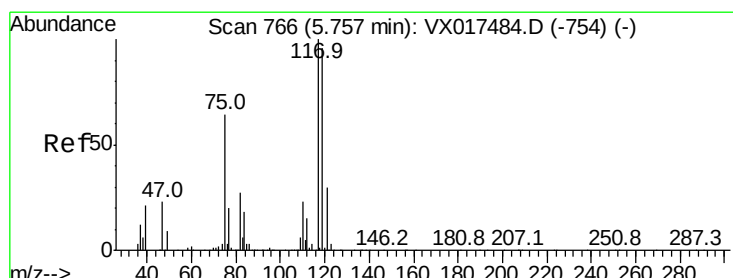
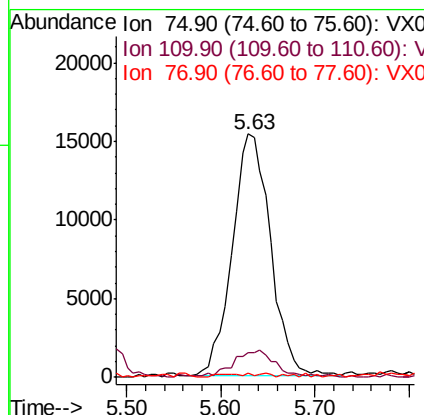
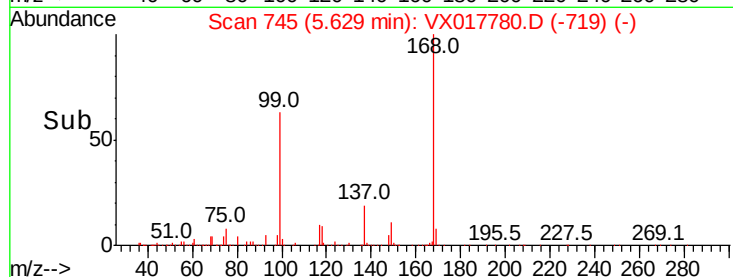
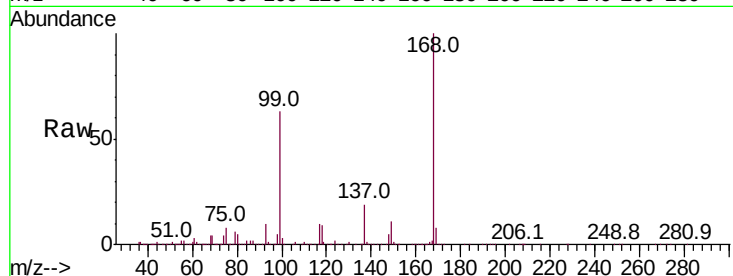




#36
 1,1-Dichloropropene
 Concen: 5.131 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017780.D
 Acq: 04 Aug 2020 19:14

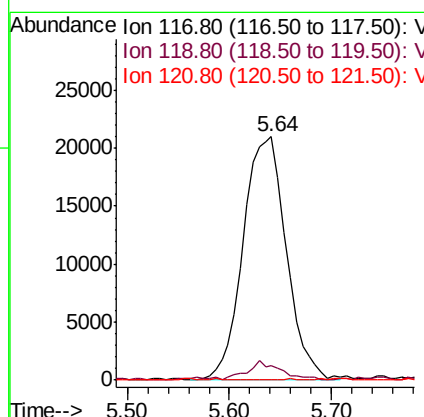
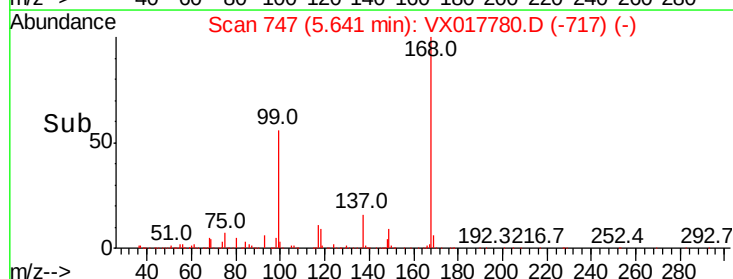
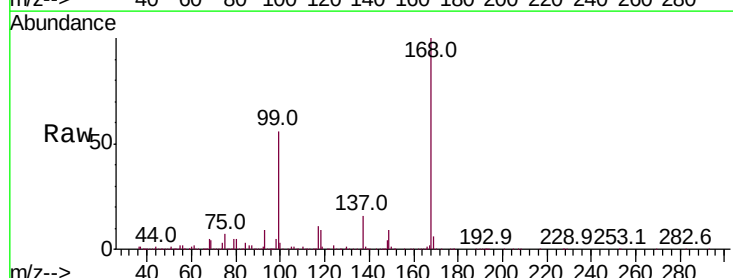
Instrument :
 MSVOA_X
 ClientSampleId :
 CRT-012

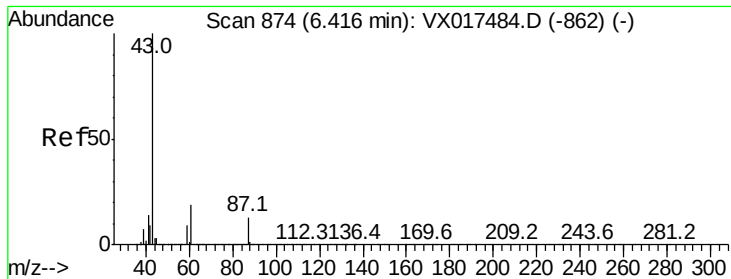
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.2	18.1	54.3#
77	0.9	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.962 ug/l
 RT: 5.64 min Scan# 747
 Delta R.T. -0.12 min
 Lab File: VX017780.D
 Acq: 04 Aug 2020 19:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	75.4	113.0#
121	0.0	24.3	36.5#





#43

Isopropyl Acetate

Concen: 9.606 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.00 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

CRT-012

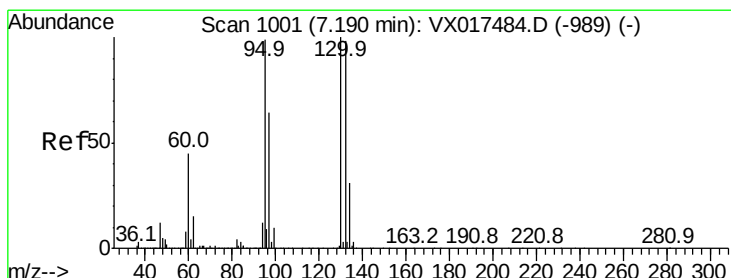
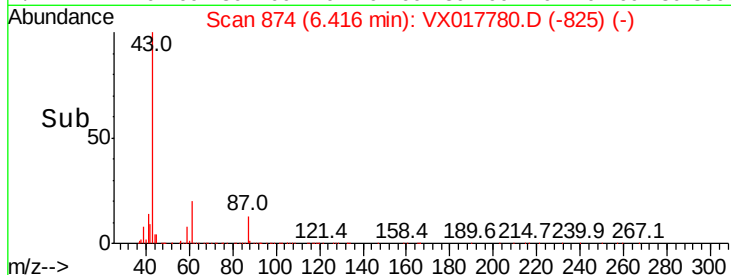
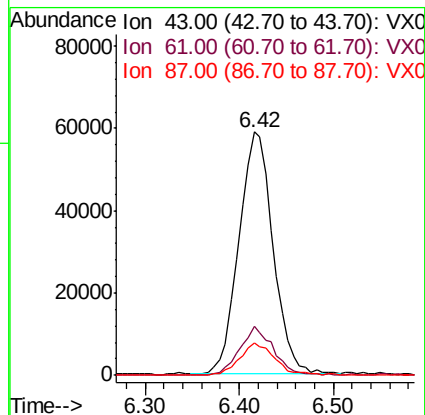
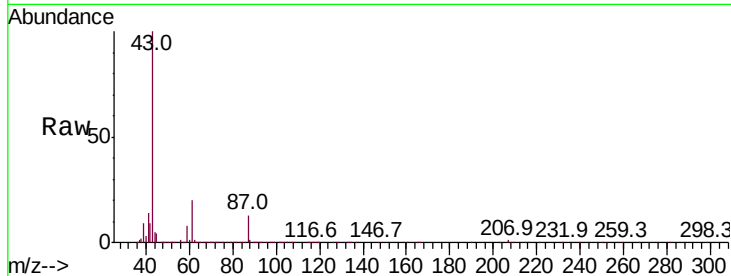
Tot Ion: 43 Resp: 148172

Ion Ratio Lower Upper

43 100

61 20.2 15.5 23.3

87 13.7 10.5 15.7



#44

Trichloroethene

Concen: 0.212 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017780.D

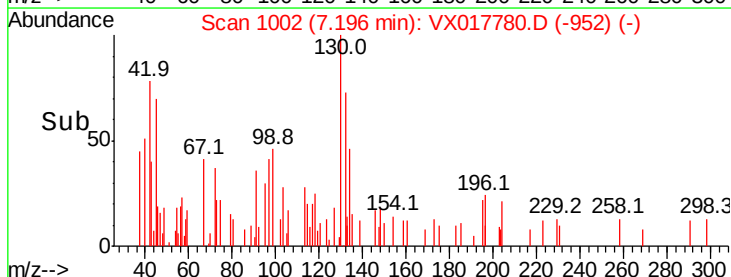
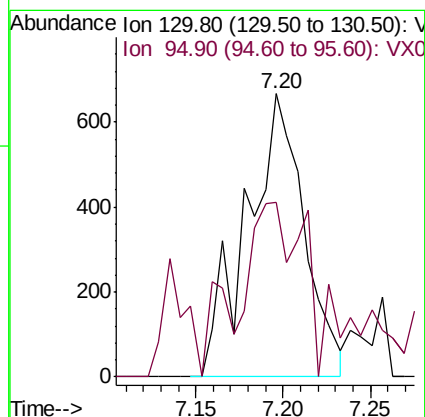
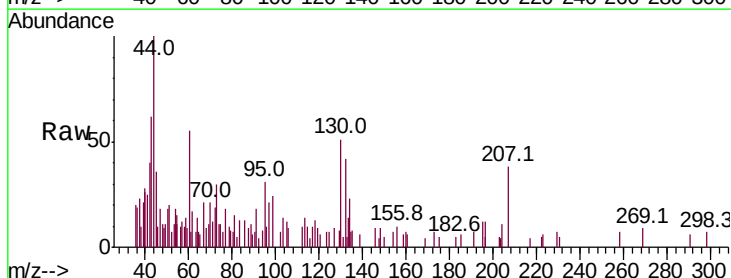
Acq: 04 Aug 2020 19:14

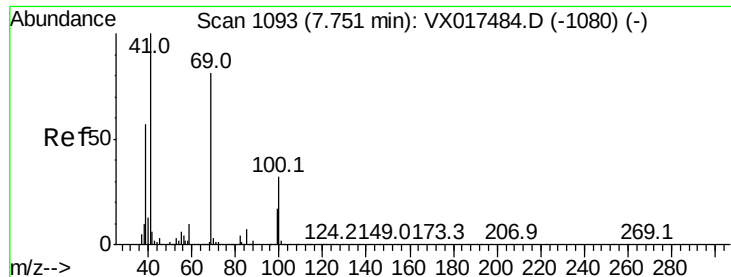
Tgt Ion:130 Resp: 1519

Ion Ratio Lower Upper

130 100

95 47.5 0.0 189.0





#48

Methyl methacrylate

Concen: 31.224 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampled :

CRT-012

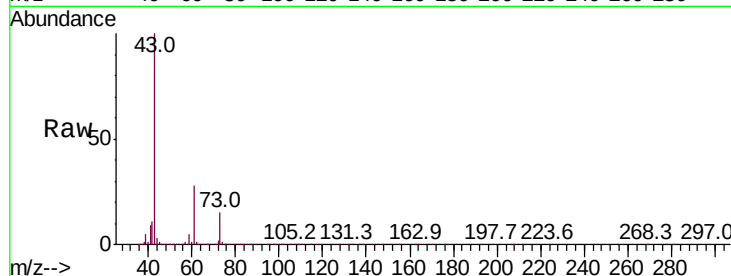
Tot Ion: 41 Resp: 238739

Ion Ratio Lower Upper

41 100

69 0.4 63.1 94.7#

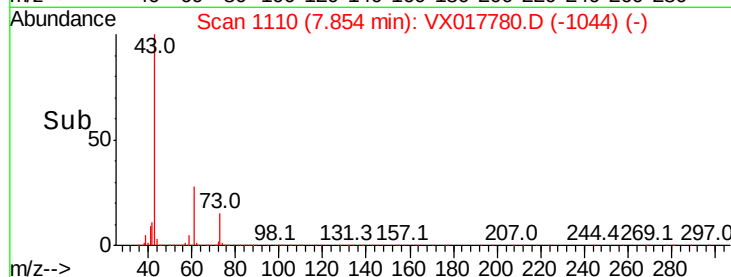
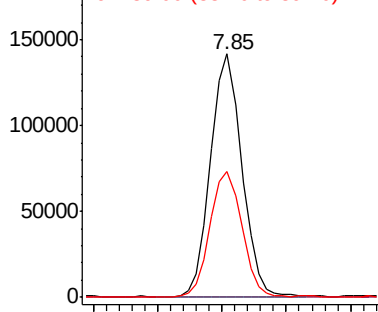
39 53.0 45.1 67.7



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 1.385 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

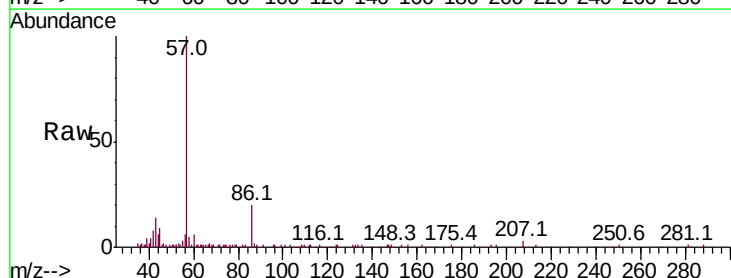
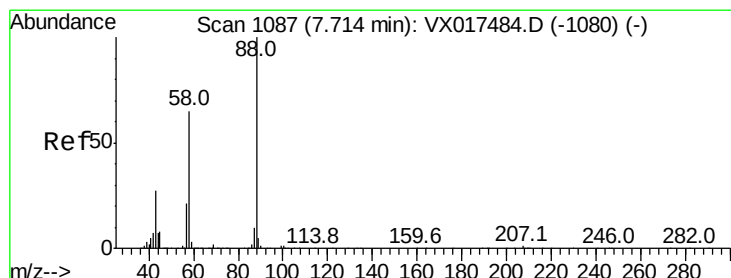
Tgt Ion: 88 Resp: 203

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

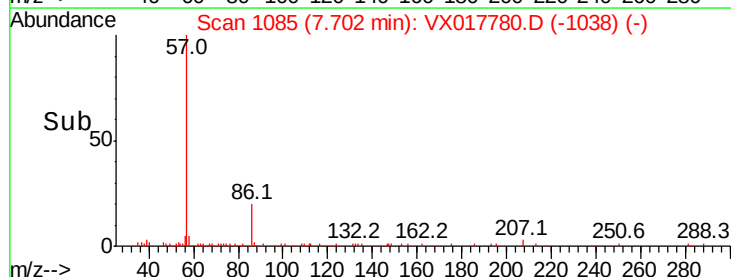
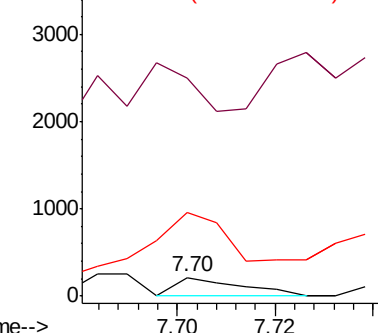
58 826.6 58.3 87.5#

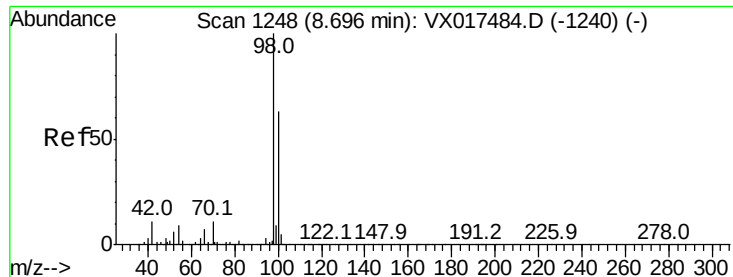


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.081 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

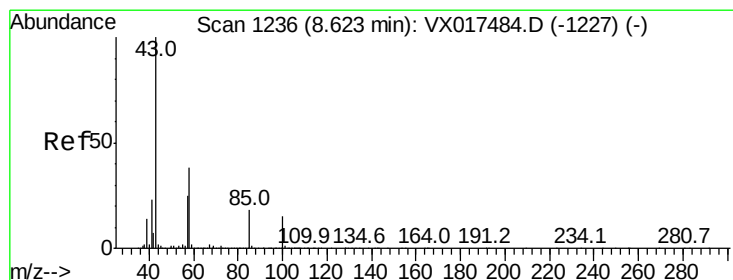
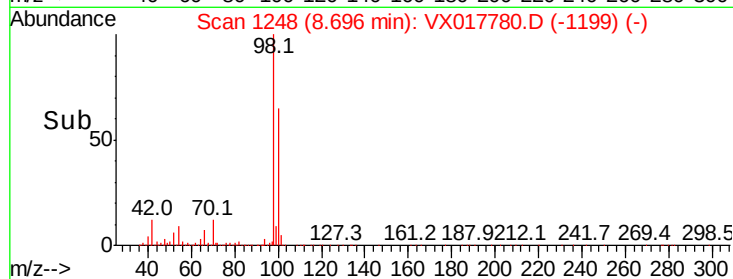
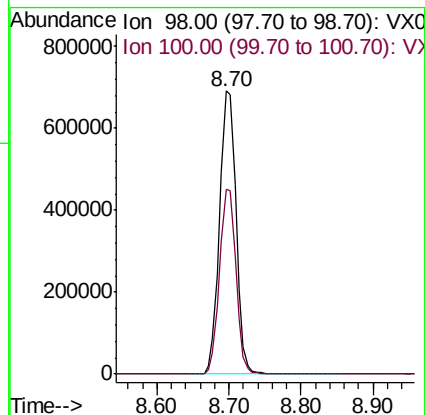
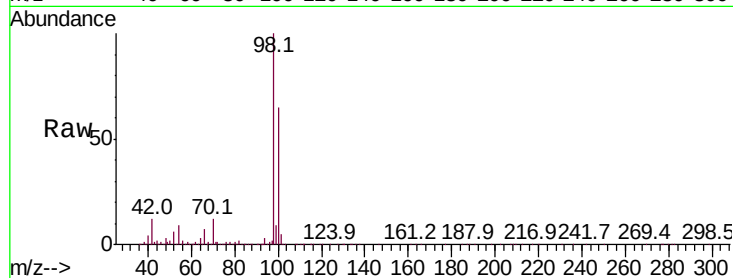
CRT-012

Tot Ion: 98 Resp: 1097957

Ion Ratio Lower Upper

98 100

100 64.6 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 15.517 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX017780.D

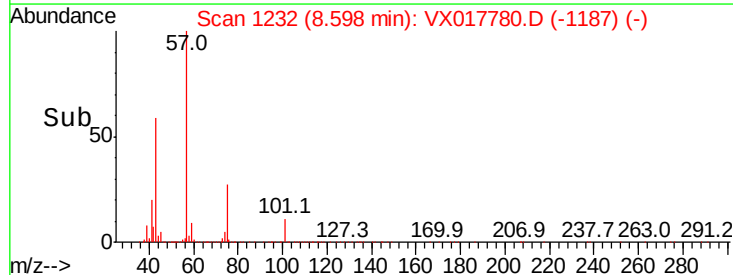
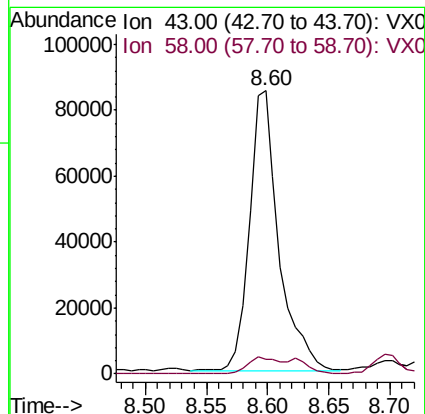
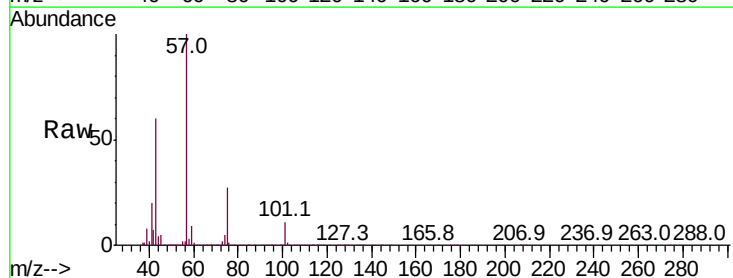
Acq: 04 Aug 2020 19:14

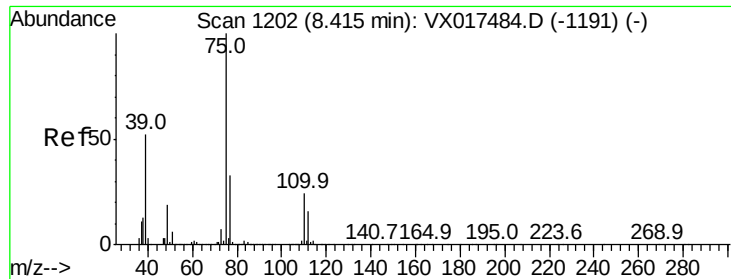
Tgt Ion: 43 Resp: 142808

Ion Ratio Lower Upper

43 100

58 7.0 31.0 46.4#





#54

cis-1,3-Dichloropropene

Concen: 5.311 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

CRT-012

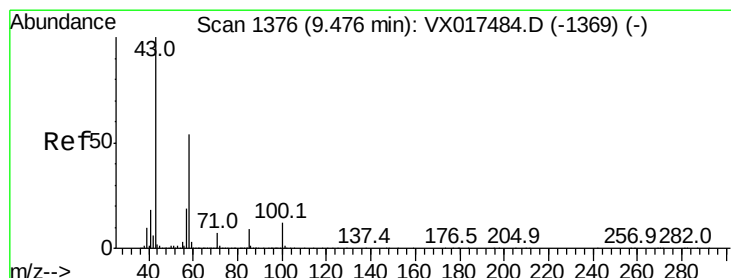
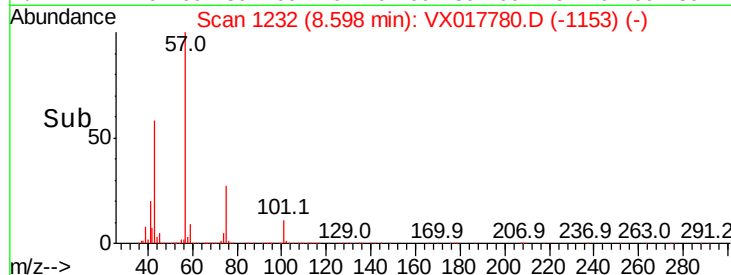
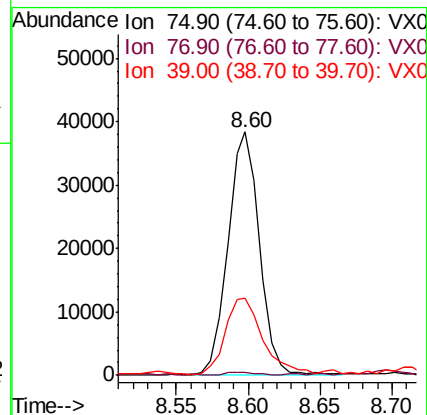
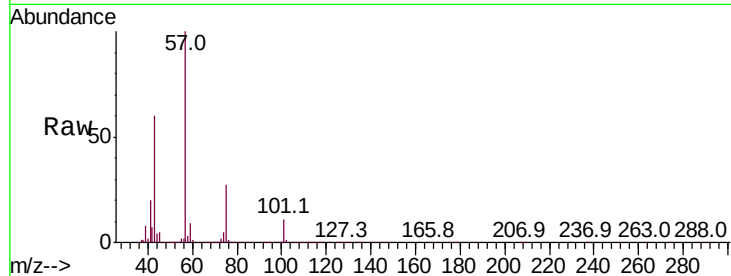
Tot Ion: 75 Resp: 58554

Ion Ratio Lower Upper

75 100

77 0.5 25.5 38.3#

39 31.6 41.8 62.8#



#59

2-Hexanone

Concen: 19.643 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX017780.D

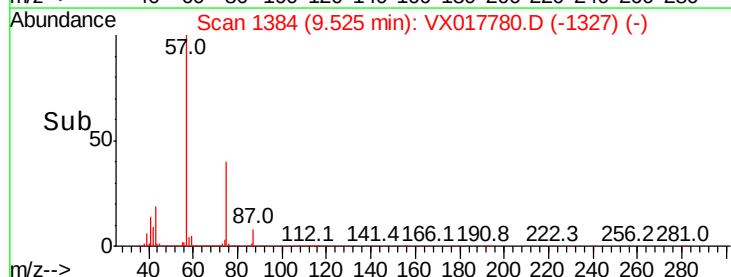
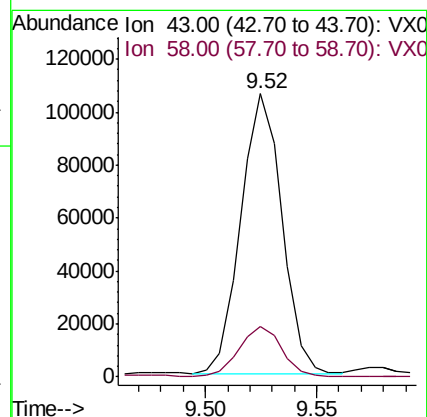
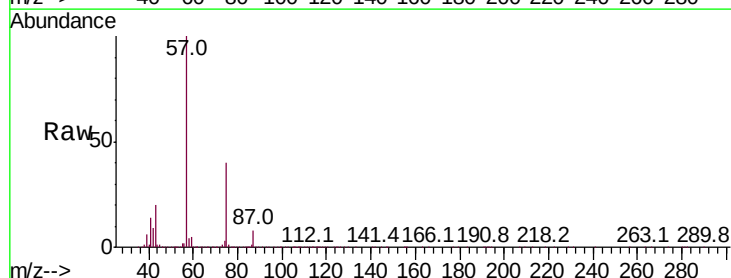
Acq: 04 Aug 2020 19:14

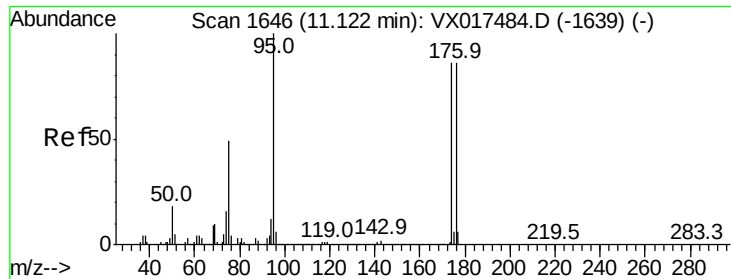
Tgt Ion: 43 Resp: 136112

Ion Ratio Lower Upper

43 100

58 18.2 26.6 79.8#





#62

4-Bromofluorobenzene

Concen: 44.403 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

CRT-012

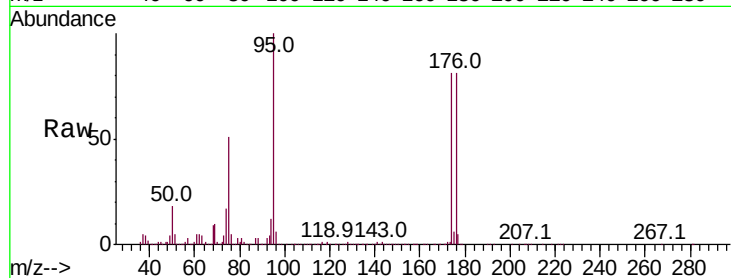
Tot Ion: 95 Resp: 381957

Ion Ratio Lower Upper

95 100

174 83.3 0.0 169.0

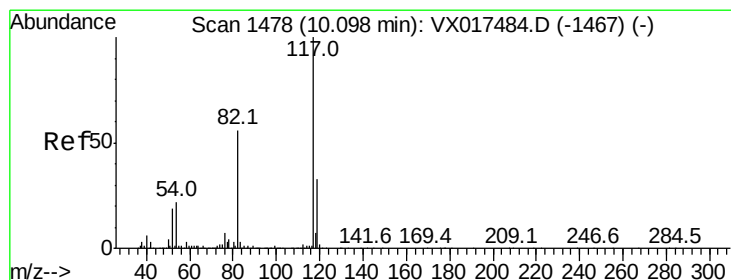
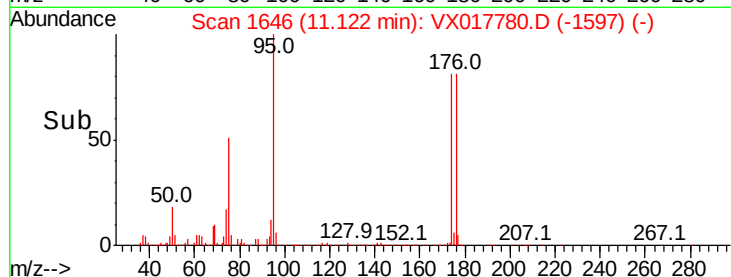
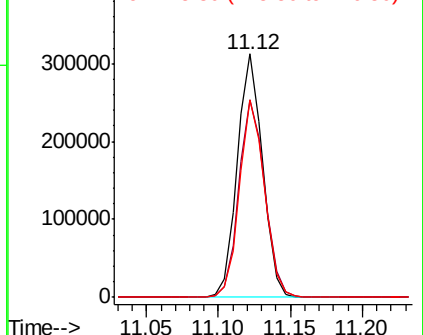
176 80.3 0.0 161.0



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: VX017780.D

Acq: 04 Aug 2020 19:14

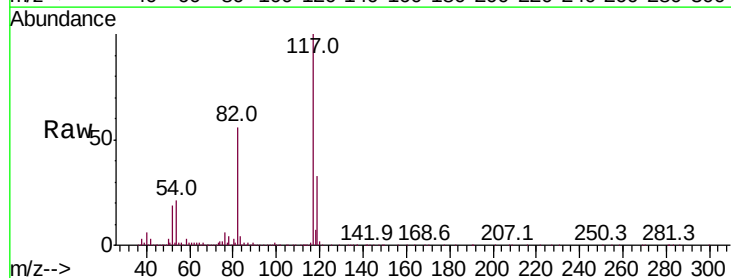
Tgt Ion: 117 Resp: 821829

Ion Ratio Lower Upper

117 100

82 55.7 44.0 66.0

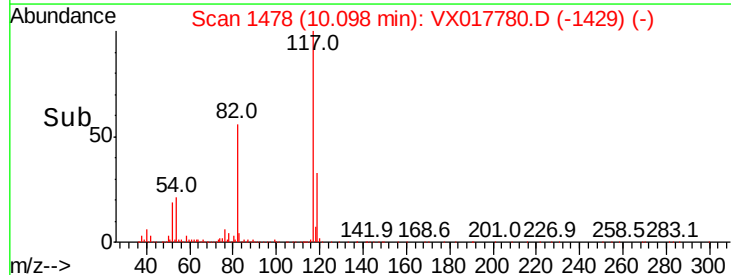
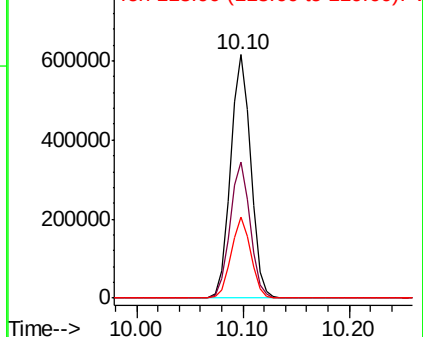
119 33.0 25.4 38.0

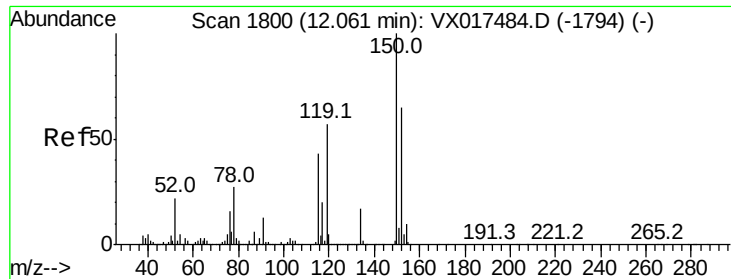


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

CRT-012

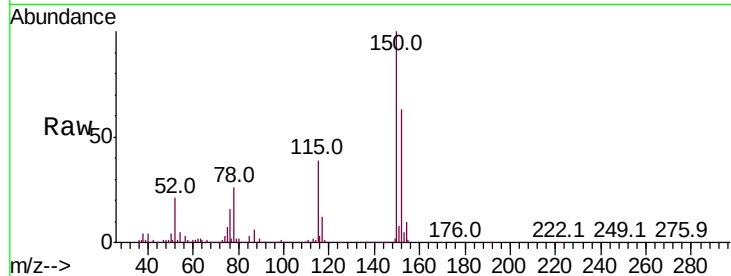
Tot Ion:152 Resp: 400211

Ion Ratio Lower Upper

152 100

115 59.4 65.5 196.6#

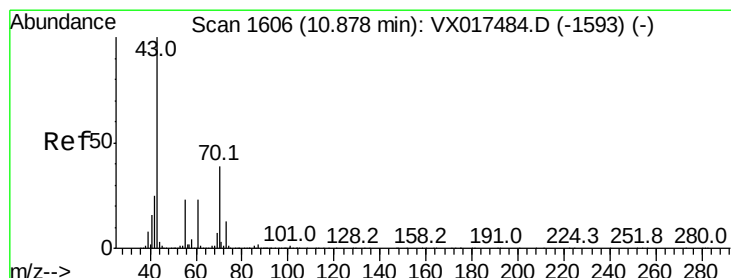
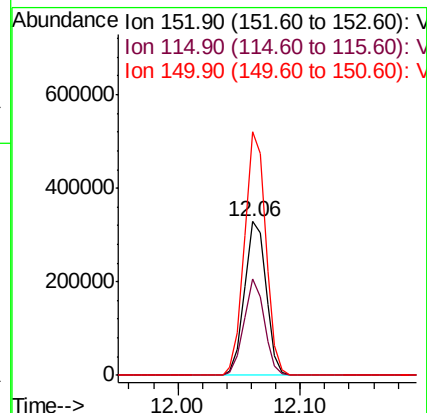
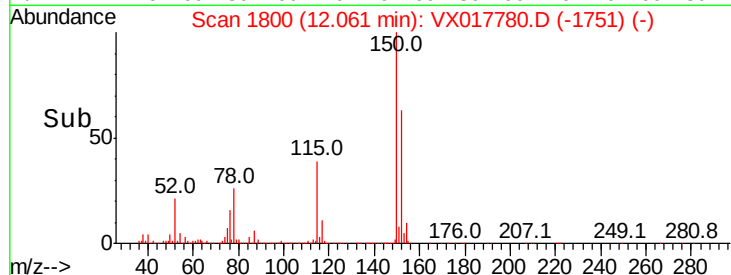
150 156.3 0.0 412.6



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: 0.474 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Tgt Ion: 43 Resp: 5782

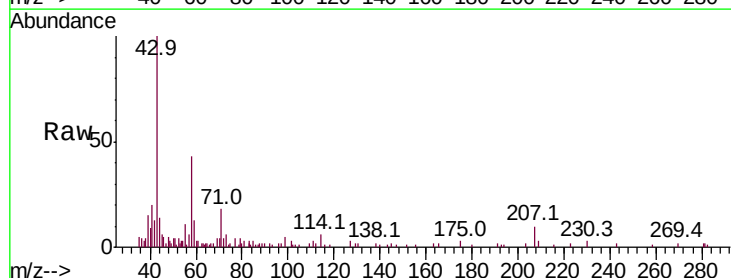
Ion Ratio Lower Upper

43 100

70 3.3 32.3 48.5#

55 11.6 18.4 27.6#

61 0.0 18.6 28.0#

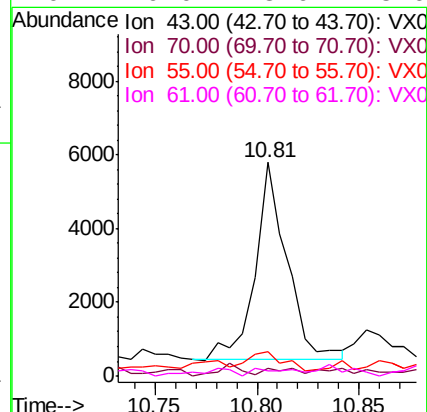
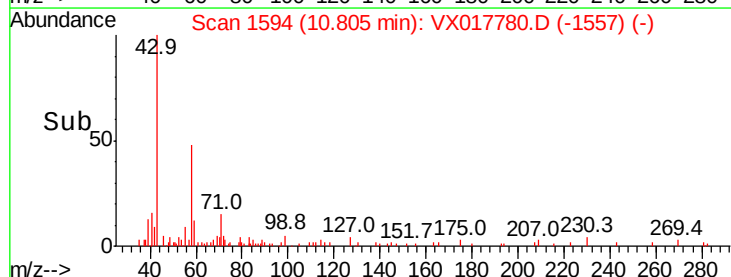


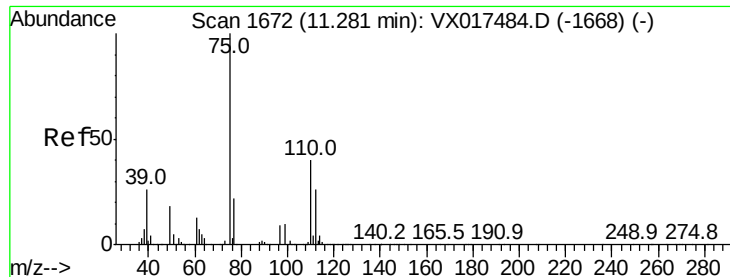
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.154 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

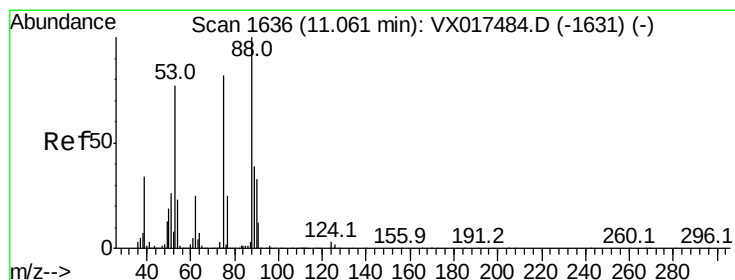
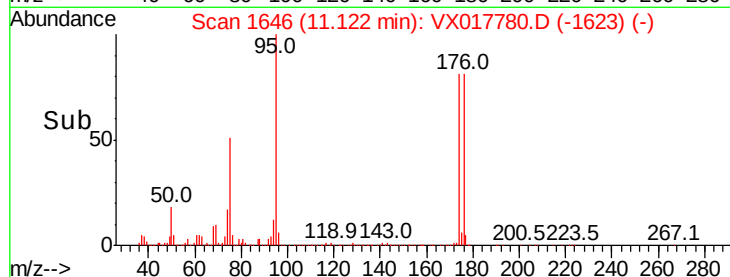
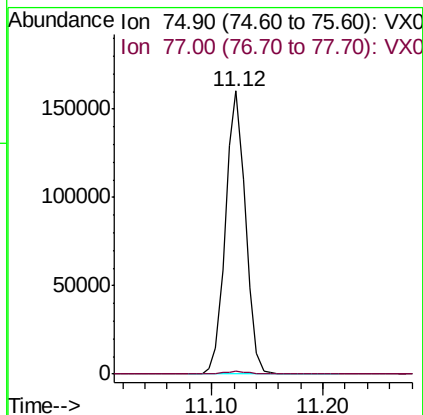
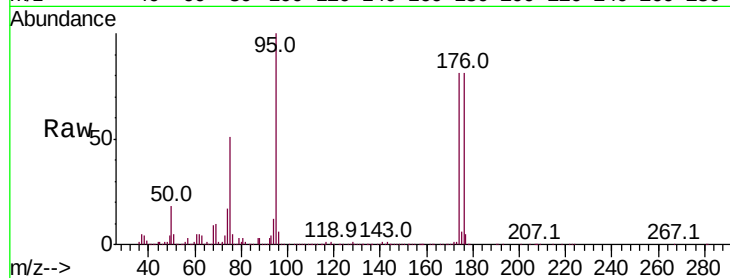
CRT-012

Tot Ion: 75 Resp: 198849

Ion Ratio Lower Upper

75 100

77 0.9 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.863 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

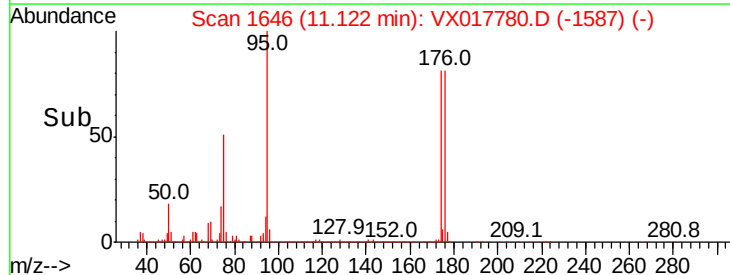
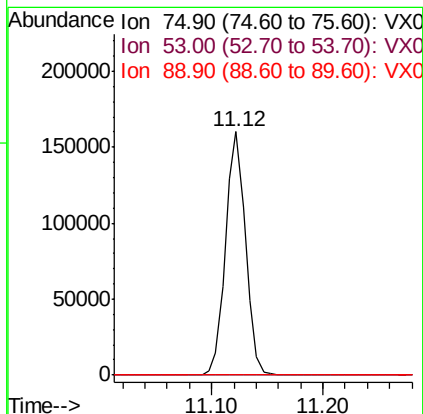
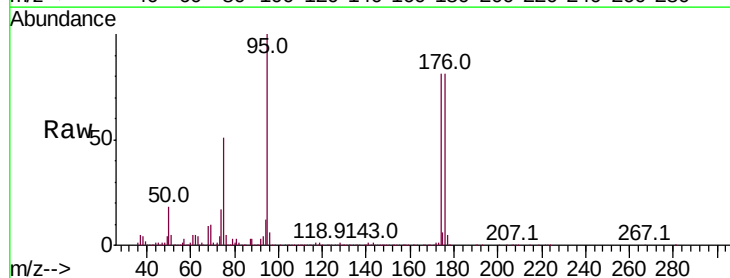
Tgt Ion: 75 Resp: 198849

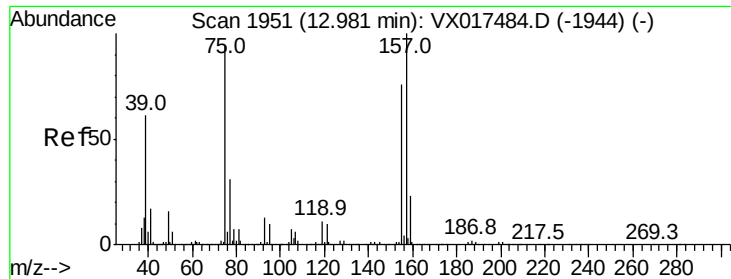
Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

89 0.2 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.673 ug/l

RT: 12.99 min Scan# 1952

Delta R.T. 0.01 min

Lab File: VX017780.D

Acq: 04 Aug 2020 19:14

Instrument :

MSVOA_X

ClientSampleId :

CRT-012

Tot Ion: 75 Resp: 246

Ion Ratio Lower Upper

75 100

155 72.0 42.3 126.8

157 47.2 54.3 162.9#

