

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073120\
 Data File : VX017702.D
 Acq On : 31 Jul 2020 15:29
 Operator : JC/SP
 Sample : L3525-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2020-07-30-TB04

Quant Time: Aug 01 02:45:34 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

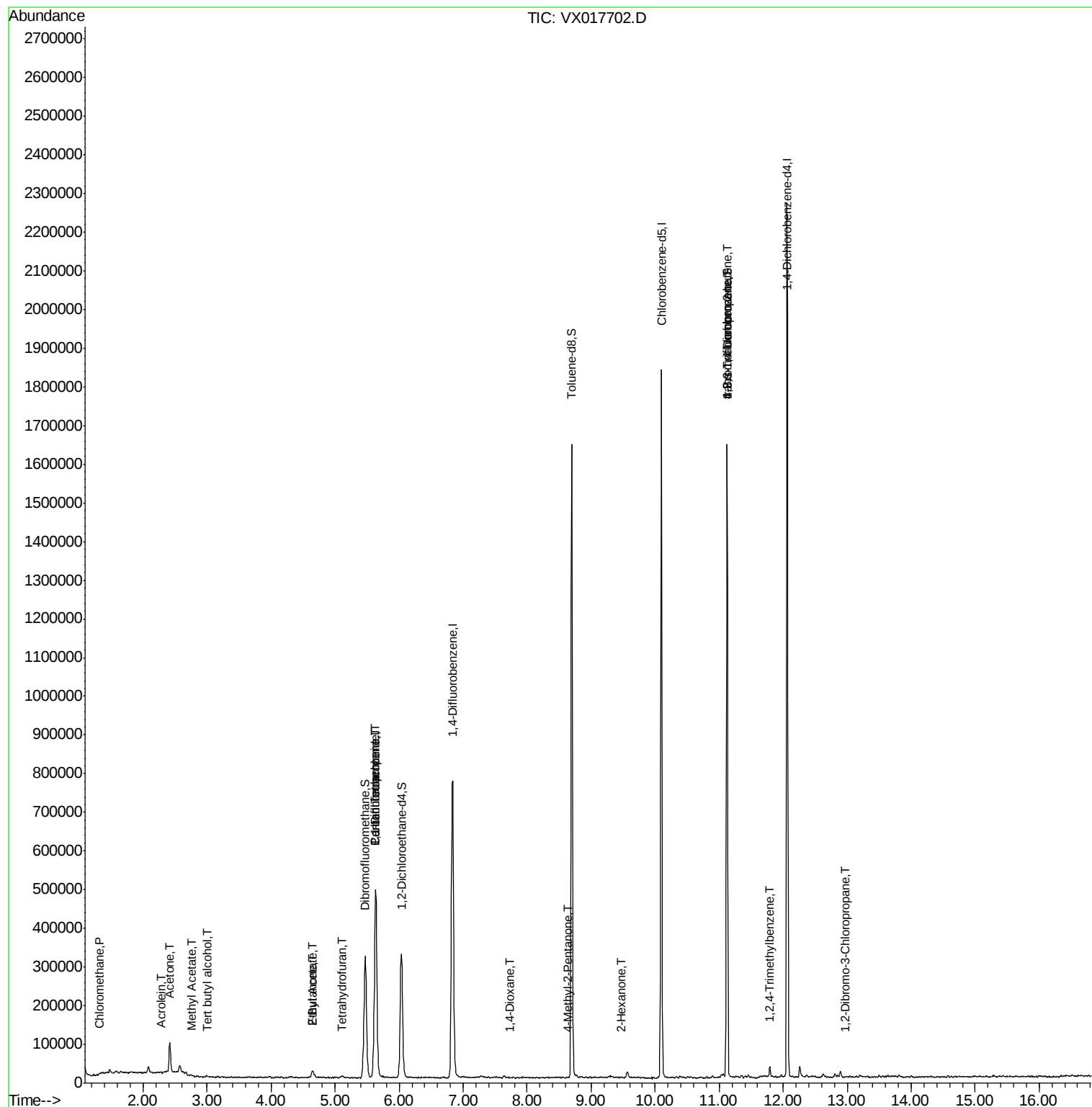
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	462038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	791168	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	817686	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	452161	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	325665	54.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.74%	
35) Dibromofluoromethane	5.47	113	267334	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	
50) Toluene-d8	8.70	98	970178	50.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.66%	
62) 4-Bromofluorobenzene	11.12	95	406313	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	348	Below Cal		78
3) Chloromethane	1.32	50	1801	0.680 ug/l		97
5) Bromomethane	1.65	94	494	Below Cal	#	73
6) Chloroethane	1.72	64	780	Below Cal	#	62
8) Diethyl Ether	1.90	74	447	Below Cal		55
11) Tert butyl alcohol	3.00	59	3731	2.983 ug/l	#	72
13) Acrolein	2.28	56	1808	6.010 ug/l	#	48
16) Acetone	2.42	43	81897	31.351 ug/l		92
18) Methyl Acetate	2.75	43	6882	1.119 ug/l	#	86
20) Methylene Chloride	2.84	84	1222	Below Cal	#	66
25) 2-Butanone	4.65	43	25426	6.852 ug/l		93
29) Tetrahydrofuran	5.10	42	4848	2.109 ug/l	#	87
36) 1,1-Dichloropropene	5.63	75	36860	4.858 ug/l	#	52
37) Ethyl Acetate	4.65	43	25426	3.062 ug/l	#	73
38) Carbon Tetrachloride	5.63	117	47004	5.101 ug/l	#	17
49) 1,4-Dioxane	7.72	88	151	1.160 ug/l	#	22
51) 4-Methyl-2-Pentanone	8.62	43	1795	0.220 ug/l	#	81
59) 2-Hexanone	9.48	43	1457	0.237 ug/l		75
76) 1,2,3-Trichloropropane	11.12	75	210279	22.608 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.12	75	210279	56.967 ug/l	#	11
84) 1,2,4-Trimethylbenzene	11.79	105	8198	0.311 ug/l	#	37
92) 1,2-Dibromo-3-Chloropropan	12.98	75	418	2.721 ug/l	#	20

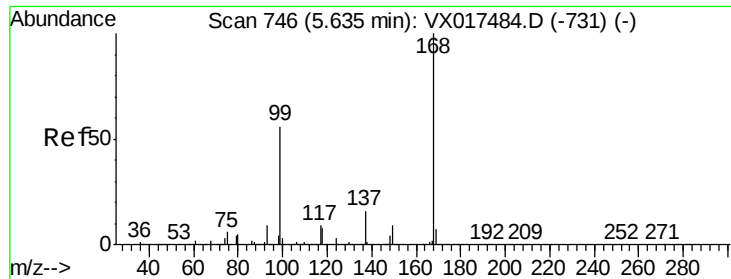
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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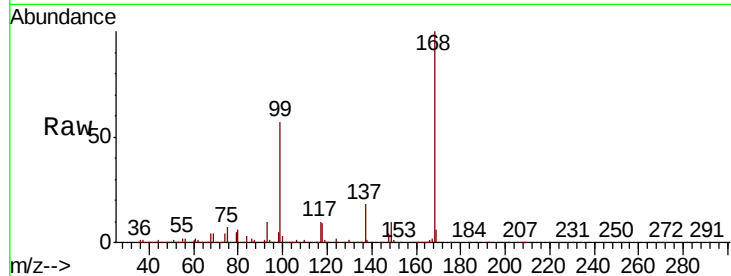


#1

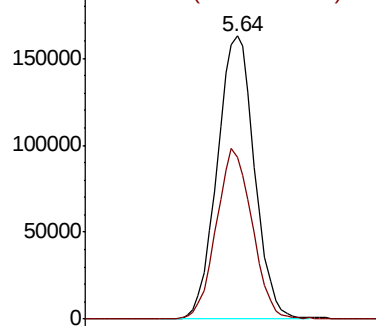
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VX017702.D
 Acq: 31 Jul 2020 15:29

Instrument :
 MSVOA_X
 ClientSampleId :
 2020-07-30-TB04

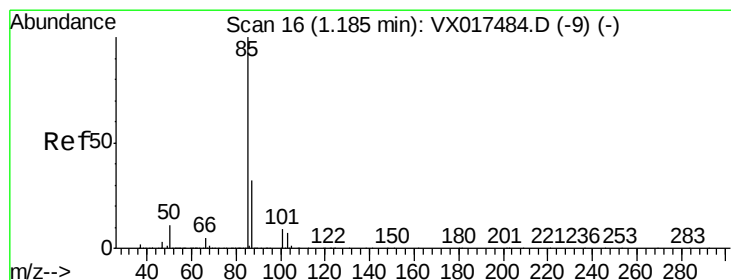
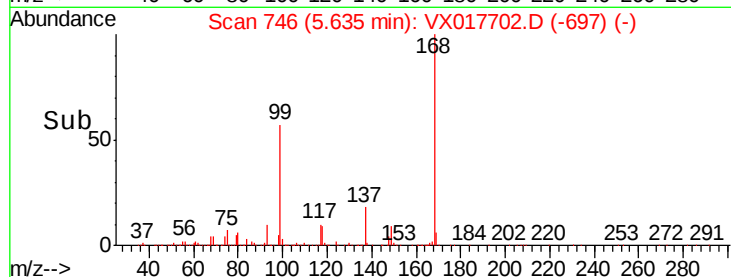
Tot Ion:168 Resp: 462038
 Ion Ratio Lower Upper
 168 100
 99 56.9 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



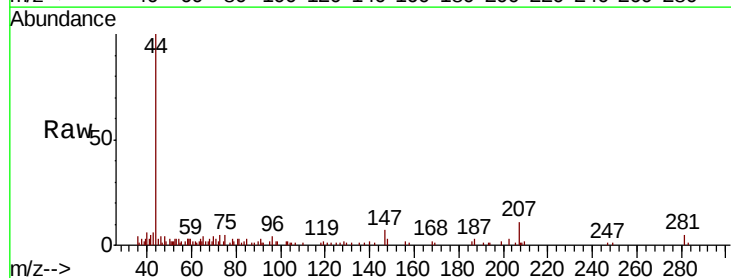
Time-->



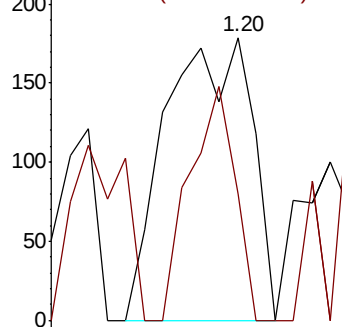
#2

Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.20 min Scan# 18
 Delta R.T. 0.01 min
 Lab File: VX017702.D
 Acq: 31 Jul 2020 15:29

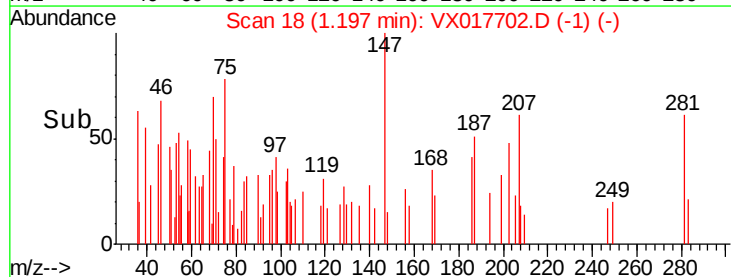
Tgt Ion: 85 Resp: 348
 Ion Ratio Lower Upper
 85 100
 87 44.7 16.1 48.3

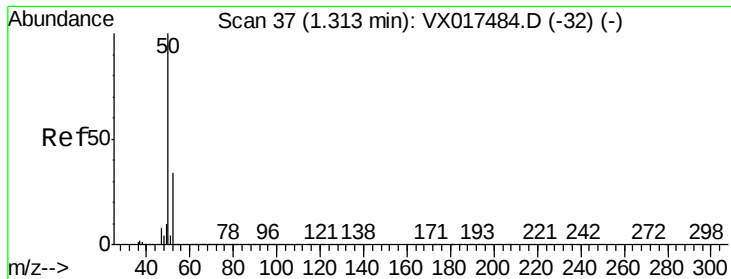


Abundance Ion 84.90 (84.60 to 85.60): VX0
 Ion 86.90 (86.60 to 87.60): VX0



Time-->





#3

Chloromethane

Concen: 0.680 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

Instrument :

MSVOA_X

ClientSampleId :

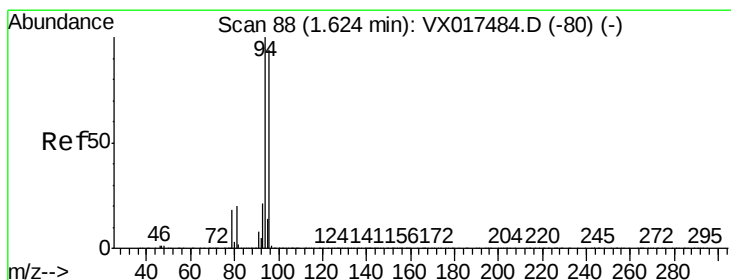
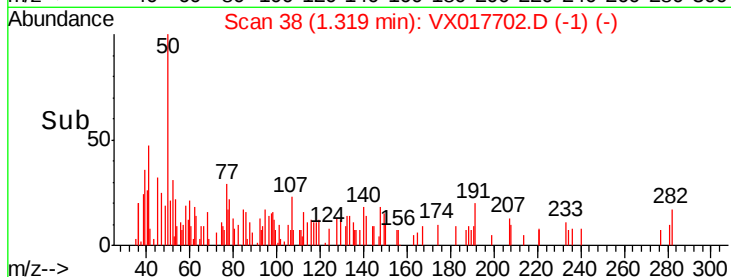
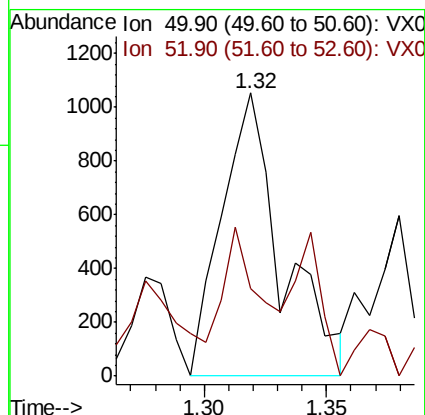
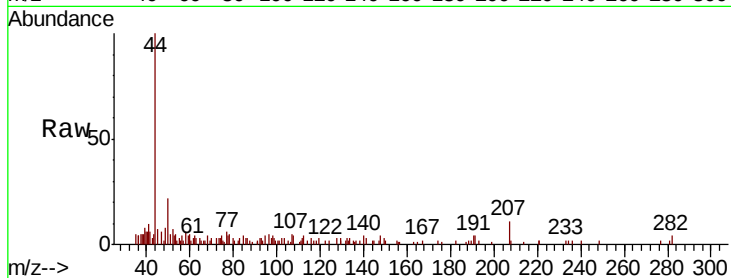
2020-07-30-TB04

Tot Ion: 50 Resp: 1801

Ion Ratio Lower Upper

50 100

52 31.0 25.9 38.9



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 92

Delta R.T. 0.03 min

Lab File: VX017702.D

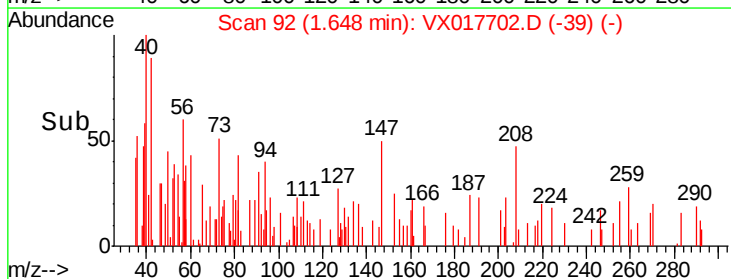
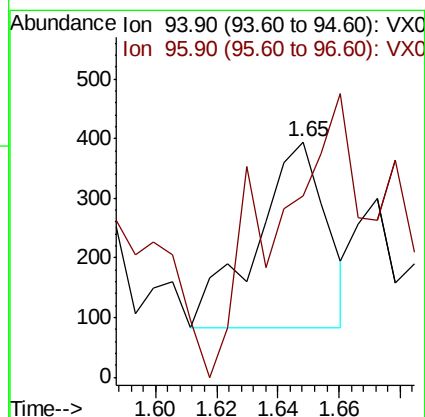
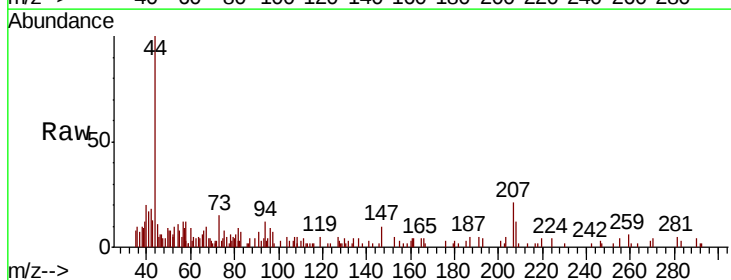
Acq: 31 Jul 2020 15:29

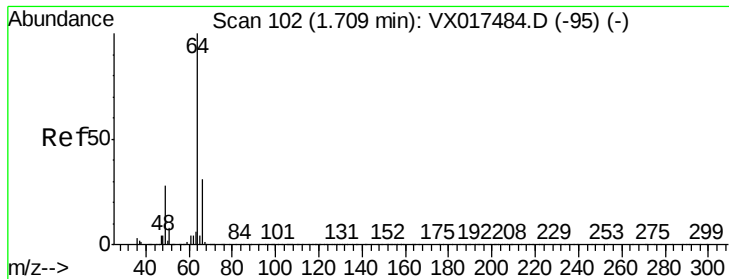
Tgt Ion: 94 Resp: 494

Ion Ratio Lower Upper

94 100

96 66.9 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

Instrument :

MSVOA_X

ClientSampleId :

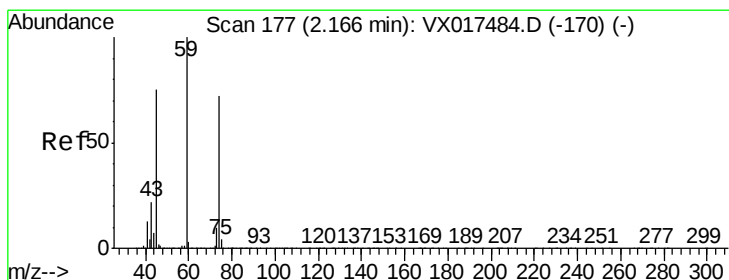
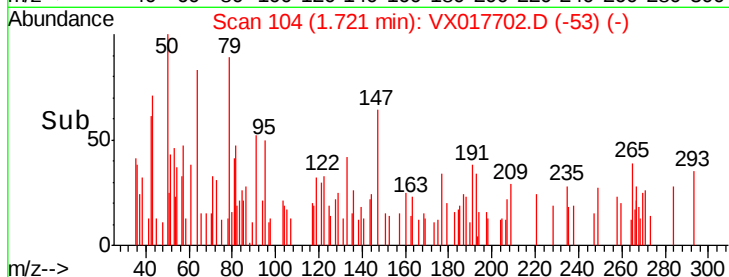
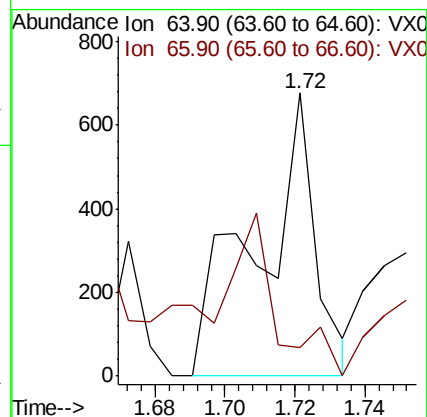
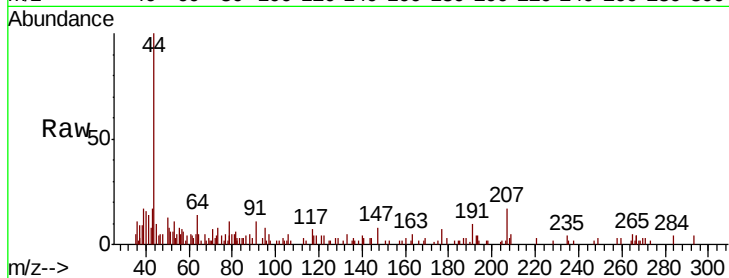
2020-07-30-TB04

Tot Ion: 64 Resp: 780

Ion Ratio Lower Upper

64 100

66 10.3 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 1.90 min Scan# 134

Delta R.T. -0.26 min

Lab File: VX017702.D

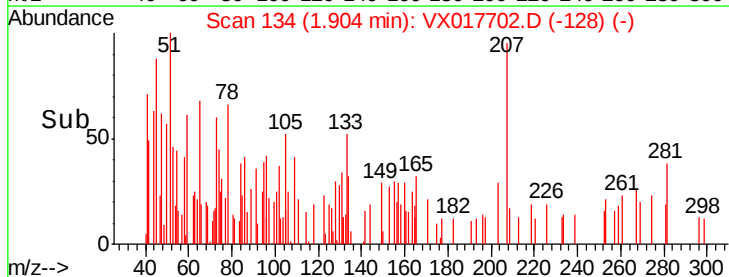
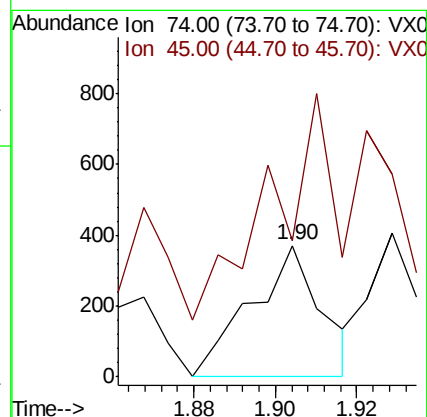
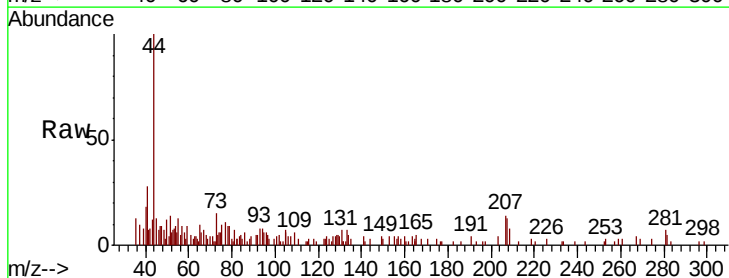
Acq: 31 Jul 2020 15:29

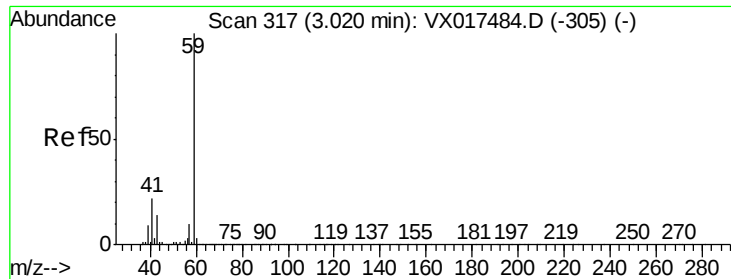
Tgt Ion: 74 Resp: 447

Ion Ratio Lower Upper

74 100

45 147.0 50.8 152.5

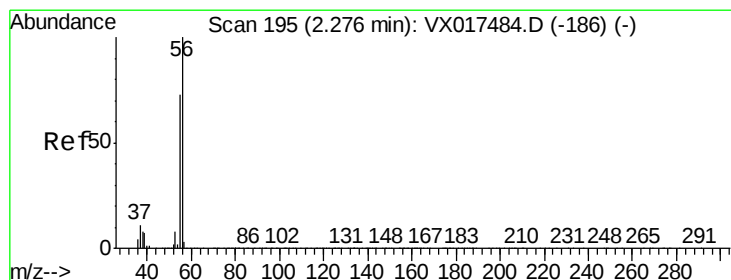
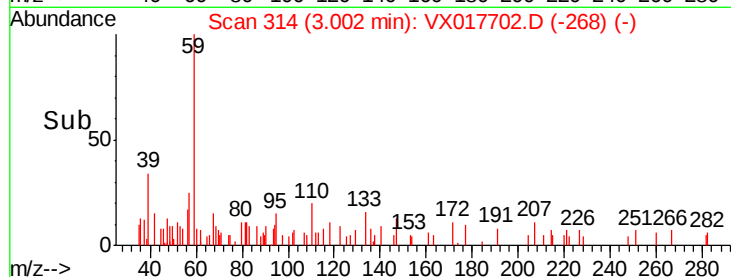
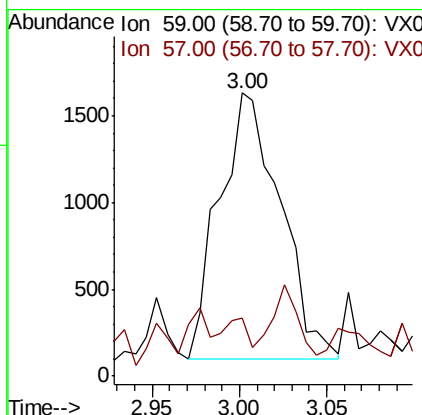
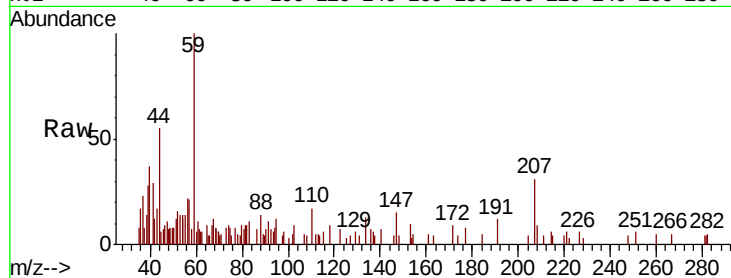




#11
Tert butyl alcohol
Concen: 2.983 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

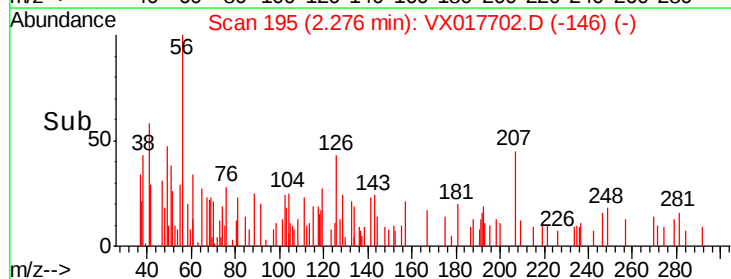
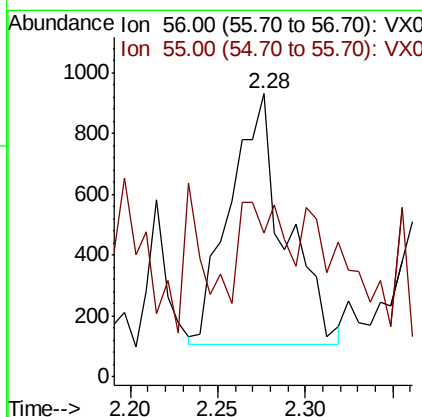
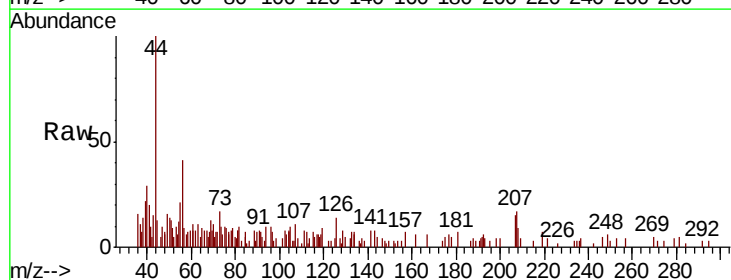
Instrument :
MSVOA_X
ClientSampleId :
2020-07-30-TB04

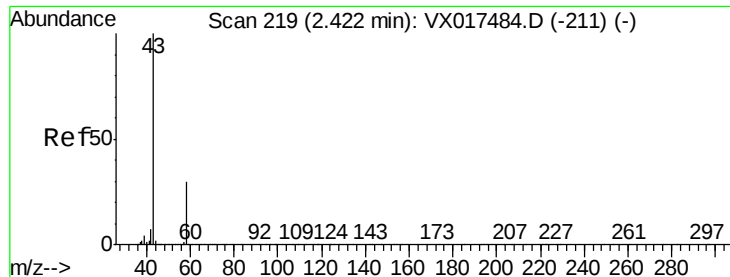
Tot Ion: 59 Resp: 3731
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 6.010 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.00 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

Tgt Ion: 56 Resp: 1808
Ion Ratio Lower Upper
56 100
55 28.3 57.4 86.2#

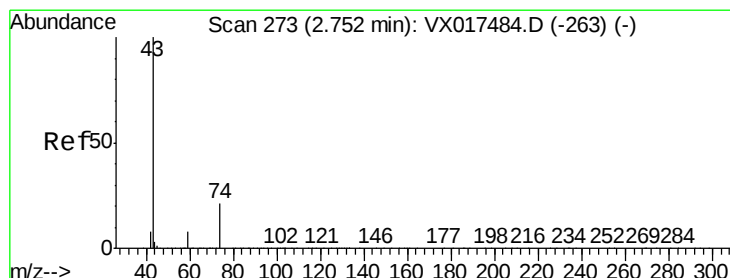
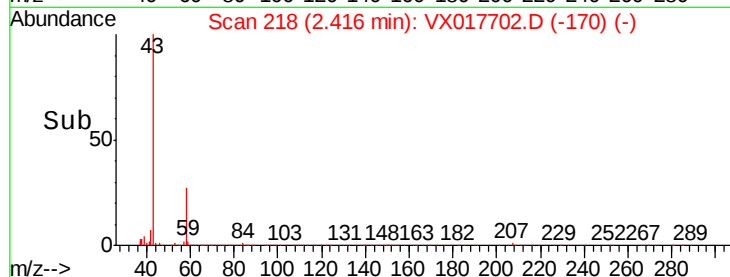
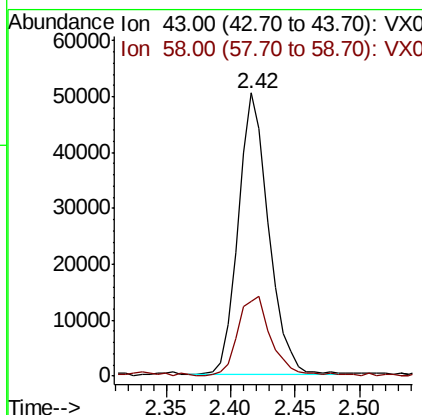
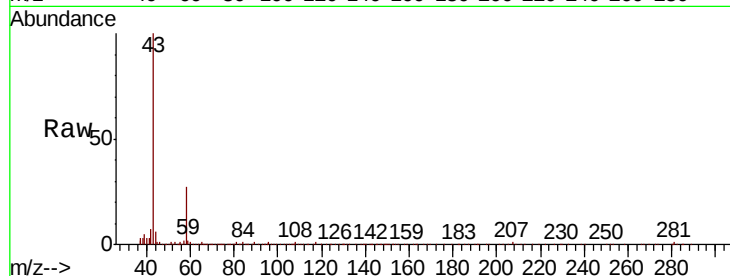




#16
Acetone
Concen: 31.351 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

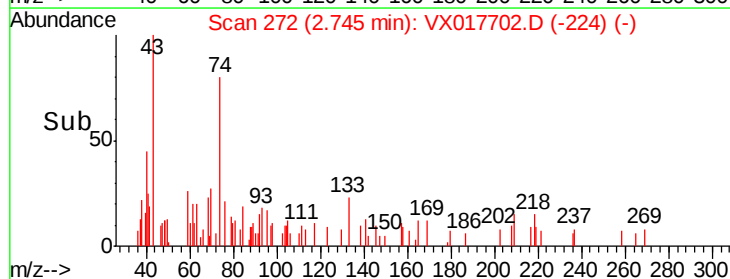
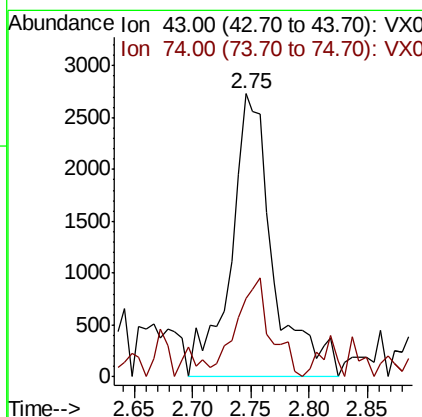
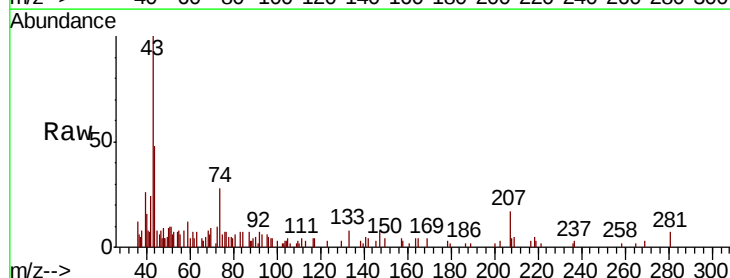
Instrument :
MSVOA_X
ClientSampleId :
2020-07-30-TB04

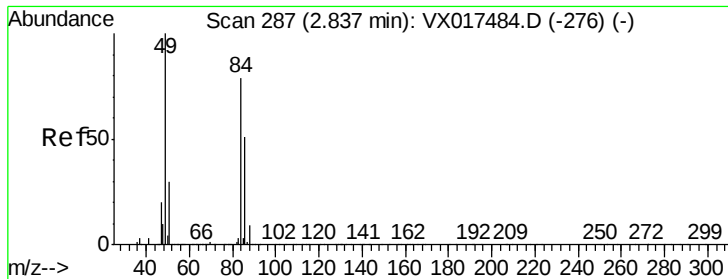
Tot Ion: 43 Resp: 81897
Ion Ratio Lower Upper
43 100
58 26.2 24.2 36.4



#18
Methyl Acetate
Concen: 1.119 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

Tgt Ion: 43 Resp: 6882
Ion Ratio Lower Upper
43 100
74 28.5 17.5 26.3#

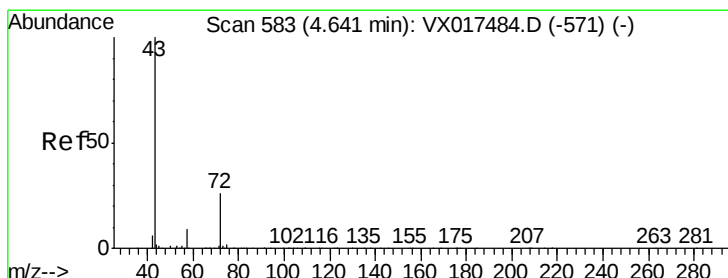
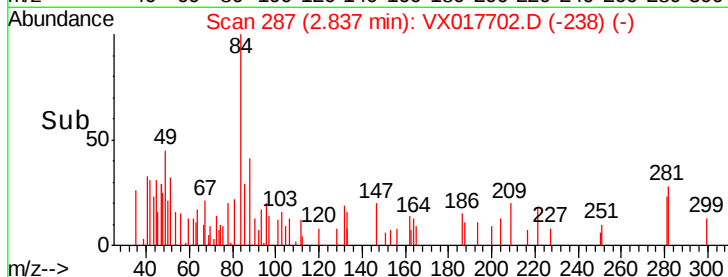
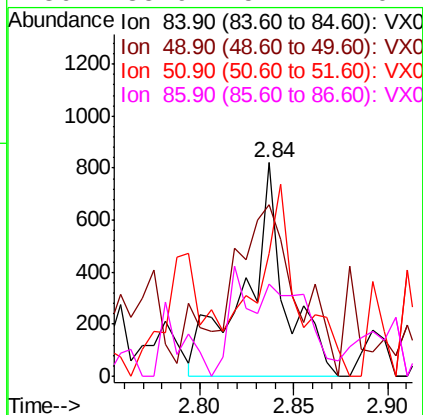
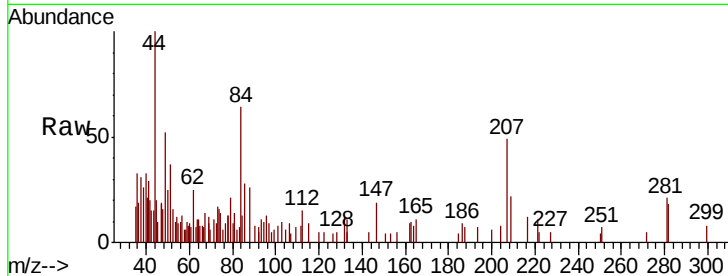




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

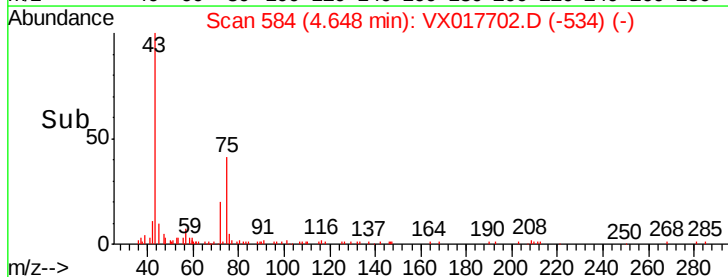
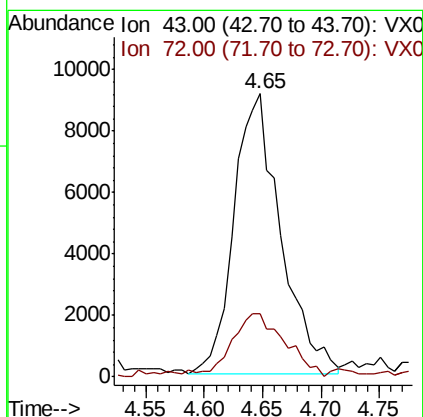
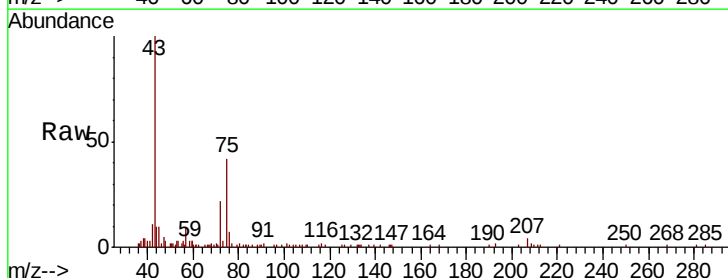
Instrument :
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2020-07-30-TB04

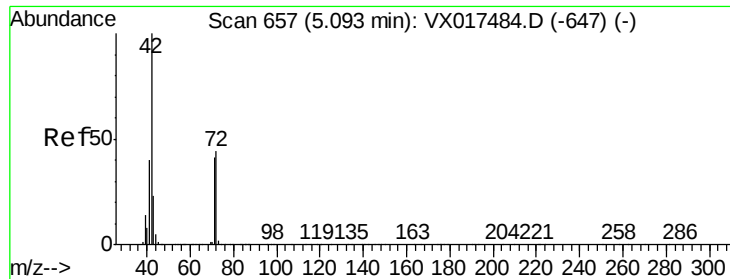
Tot Ion: 84 Resp: 1222
Ion Ratio Lower Upper
84 100
49 80.3 100.3 150.5#
51 44.9 30.5 45.7
86 35.9 51.1 76.7#



#25
2-Butanone
Concen: 6.852 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

Tgt Ion: 43 Resp: 25426
Ion Ratio Lower Upper
43 100
72 20.1 19.0 28.4





#29

Tetrahydrofuran

Concen: 2.109 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

Instrument :

MSVOA_X

ClientSampleId :

2020-07-30-TB04

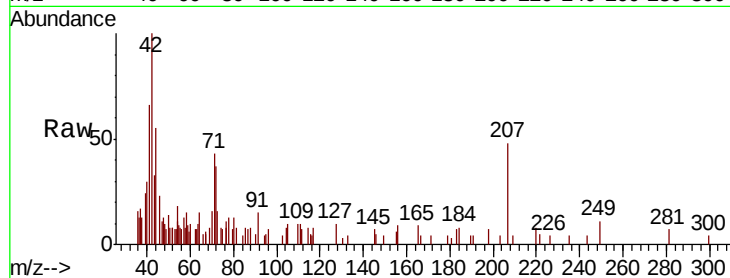
Tot Ion: 42 Resp: 4848

Ion Ratio Lower Upper

42 100

72 34.3 35.5 53.3#

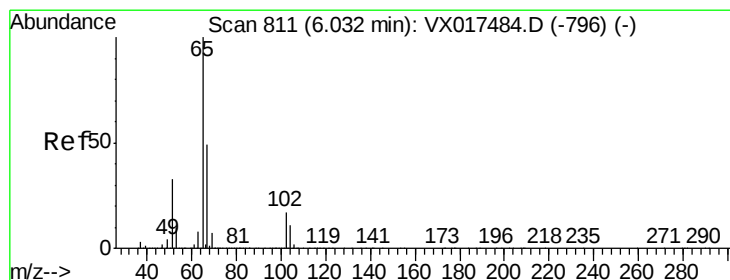
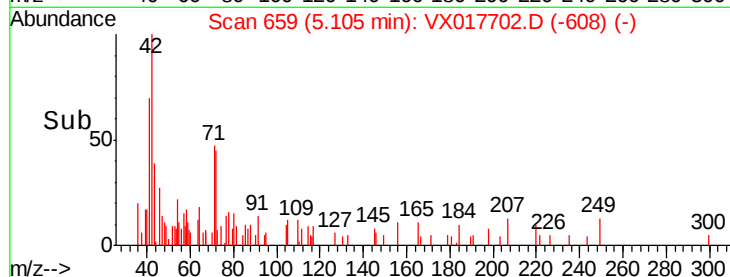
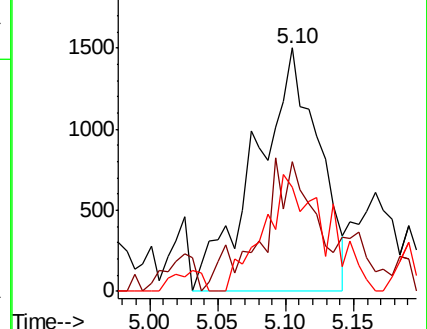
71 47.2 33.0 49.4



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.871 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017702.D

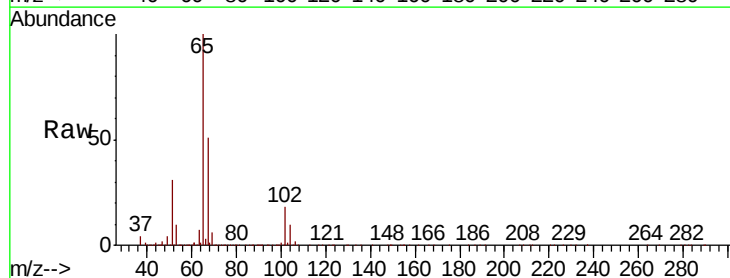
Acq: 31 Jul 2020 15:29

Tgt Ion: 65 Resp: 325665

Ion Ratio Lower Upper

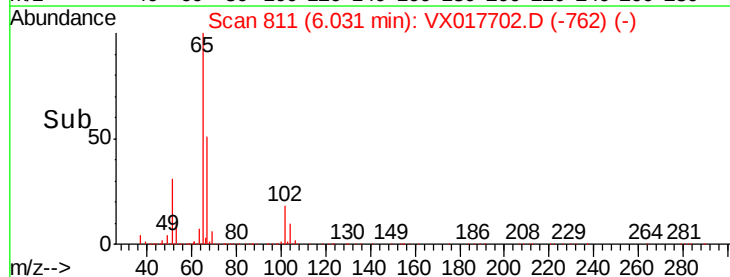
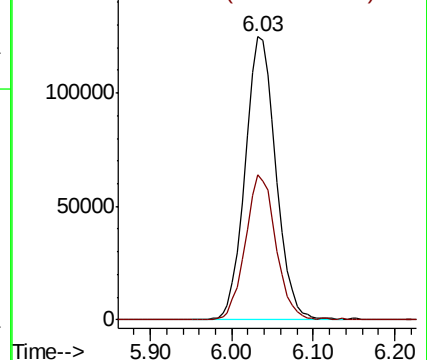
65 100

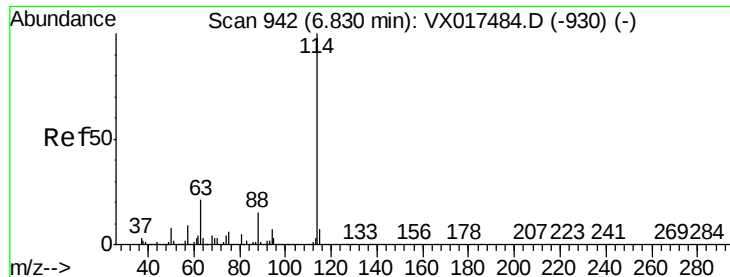
67 50.8 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

Instrument :

MSVOA_X

ClientSampleId :

2020-07-30-TB04

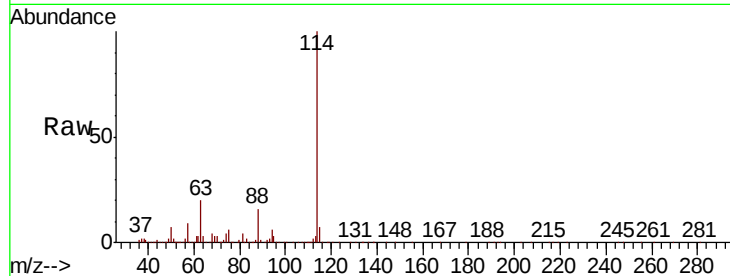
Tot Ion:114 Resp: 791168

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.6

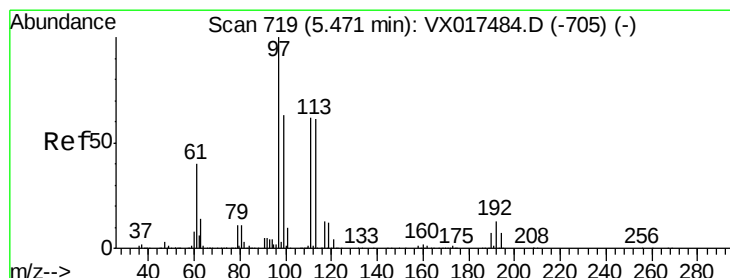
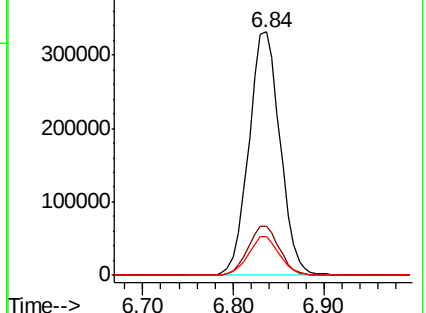
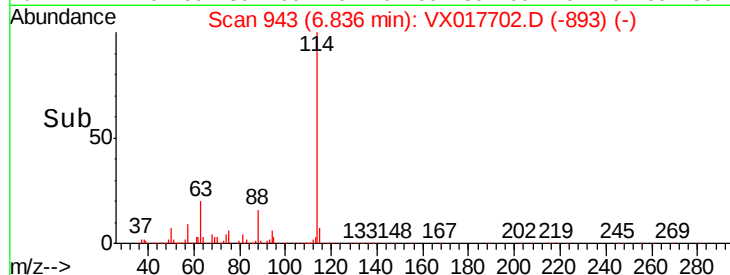
88 16.1 0.0 33.4



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: 50.523 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

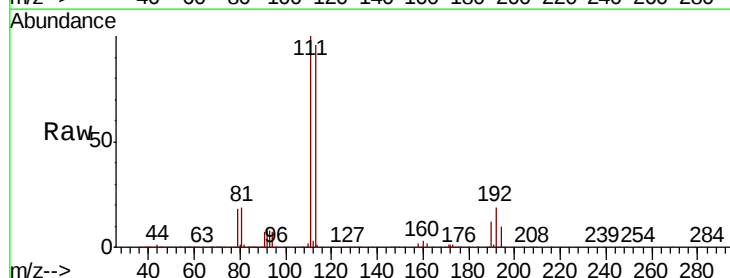
Tgt Ion:113 Resp: 267334

Ion Ratio Lower Upper

113 100

111 104.5 80.7 121.1

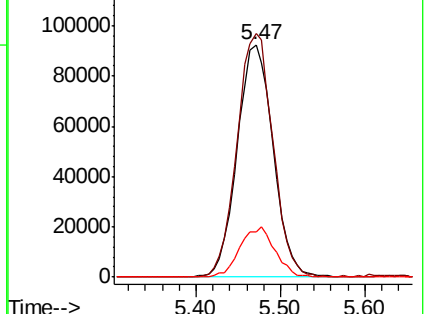
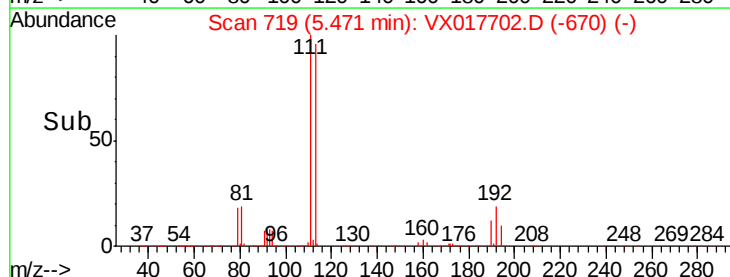
192 21.2 16.9 25.3

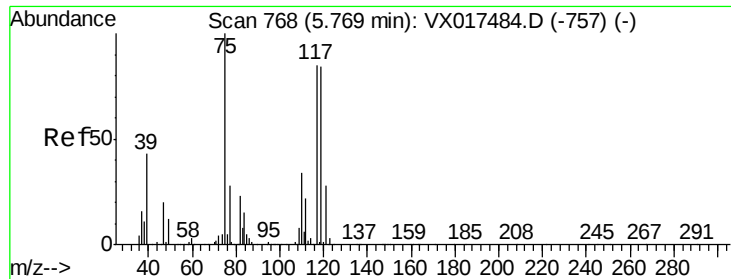


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.858 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

Instrument :

MSVOA_X

ClientSampleId :

2020-07-30-TB04

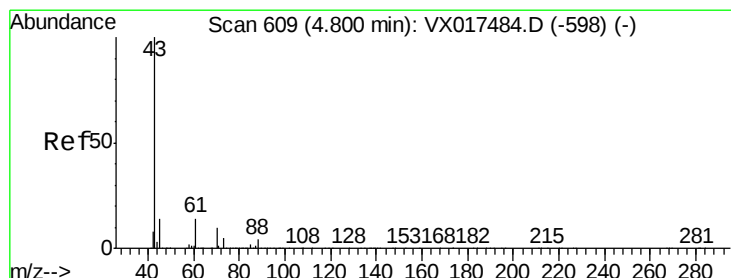
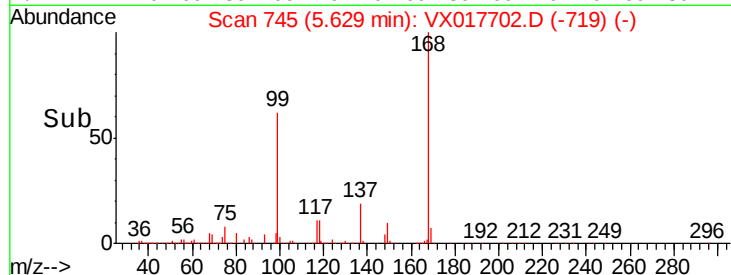
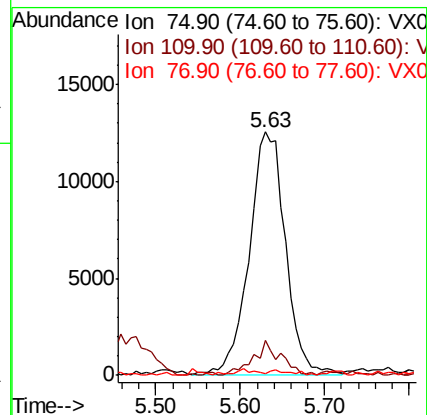
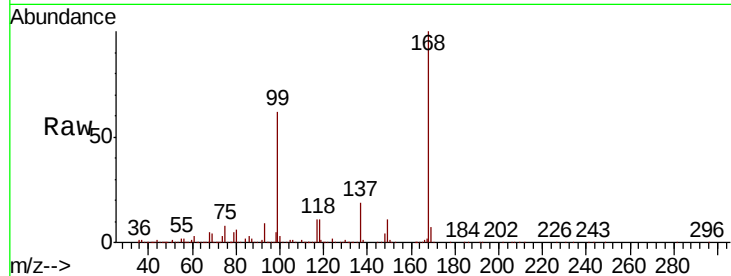
Tot Ion: 75 Resp: 36860

Ion Ratio Lower Upper

75 100

110 10.9 18.1 54.3#

77 1.3 24.6 37.0#



#37

Ethyl Acetate

Concen: 3.062 ug/l

RT: 4.65 min Scan# 584

Delta R.T. -0.15 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

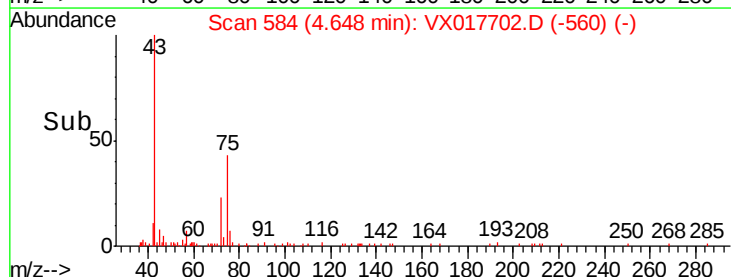
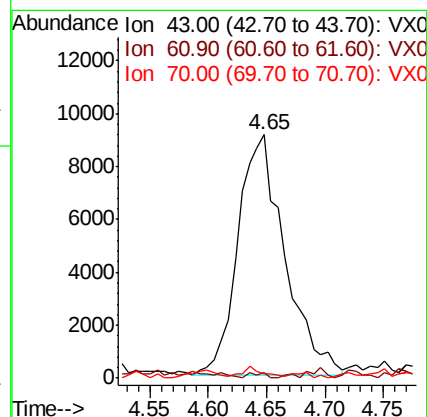
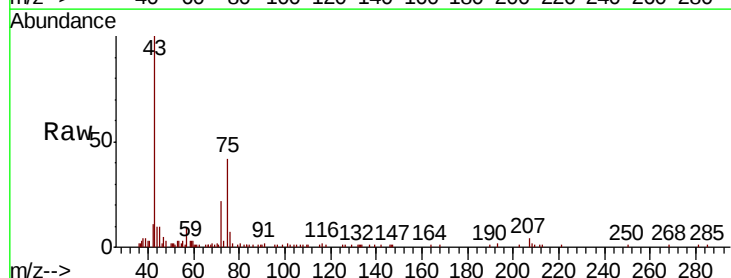
Tgt Ion: 43 Resp: 25426

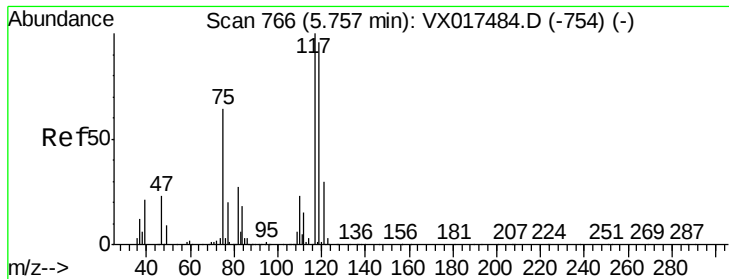
Ion Ratio Lower Upper

43 100

61 0.8 10.7 16.1#

70 2.3 8.5 12.7#





#38

Carbon Tetrachloride

Concen: 5.101 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

Instrument :

MSVOA_X

ClientSampleId :

2020-07-30-TB04

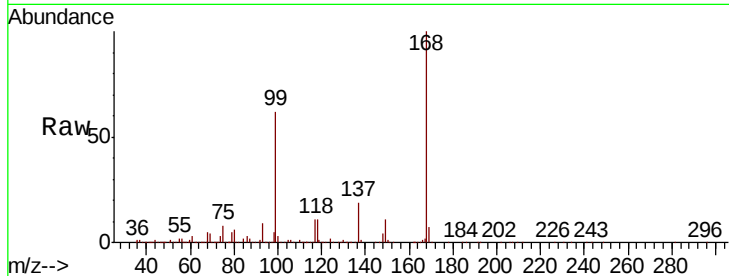
Tot Ion:117 Resp: 47004

Ion Ratio Lower Upper

117 100

119 4.5 75.4 113.0#

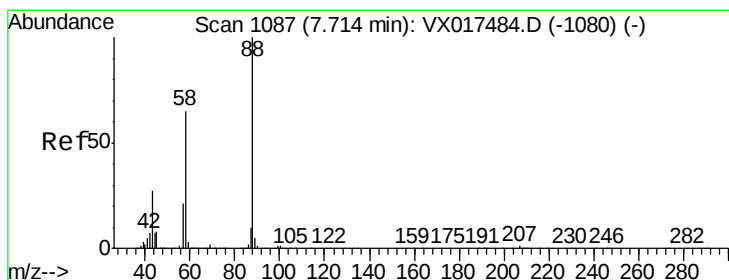
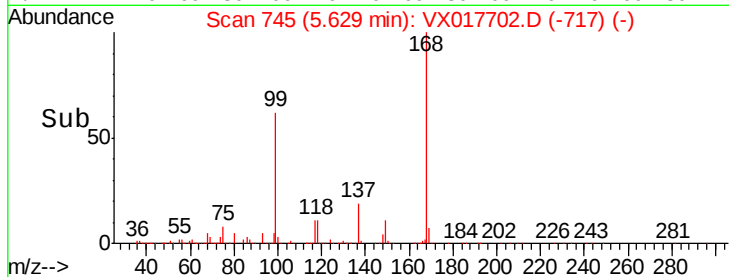
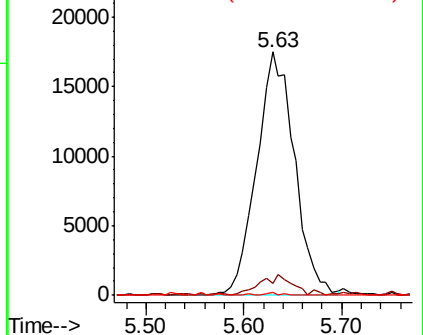
121 1.1 24.3 36.5#



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: 1.160 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

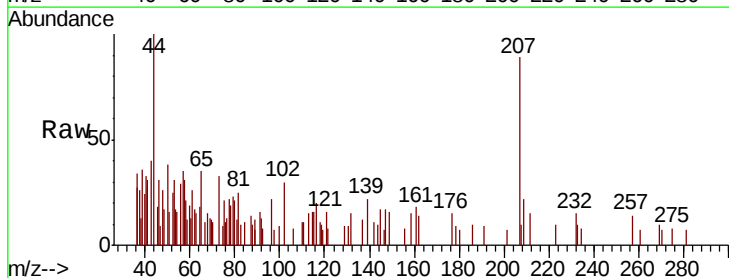
Tgt Ion: 88 Resp: 151

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

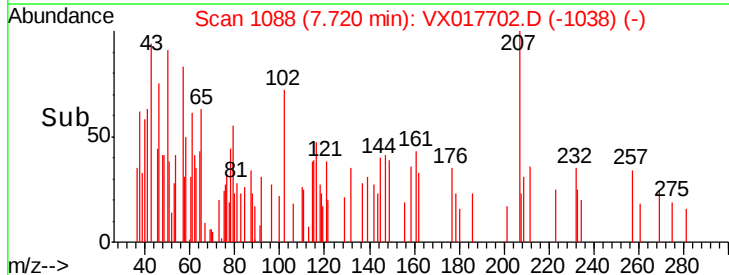
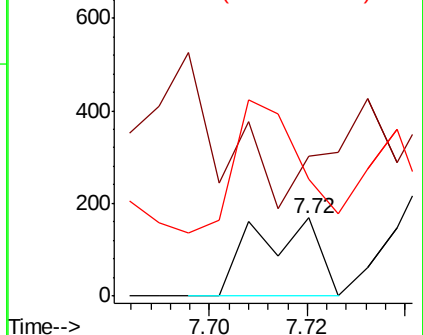
58 0.0 58.3 87.5#

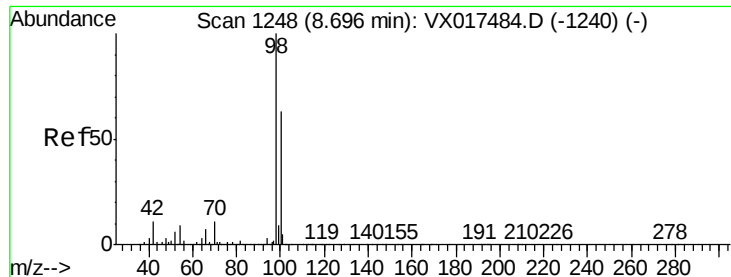


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.825 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

Instrument :

MSVOA_X

ClientSampleId :

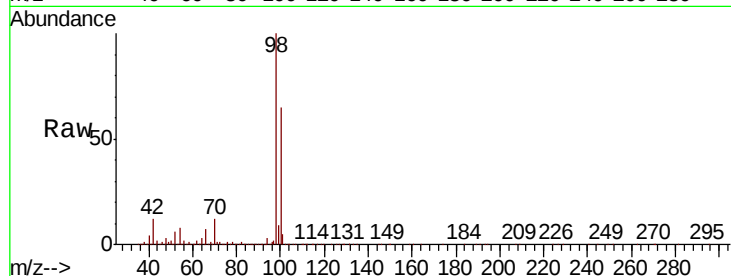
2020-07-30-TB04

Tot Ion: 98 Resp: 970178

Ion Ratio Lower Upper

98 100

100 65.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

600000

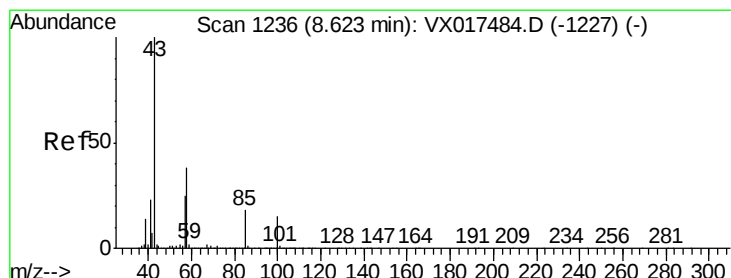
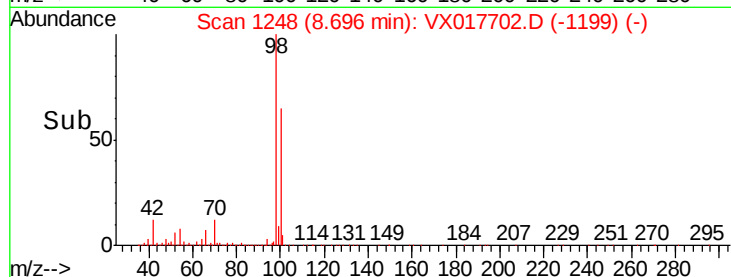
400000

200000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.220 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017702.D

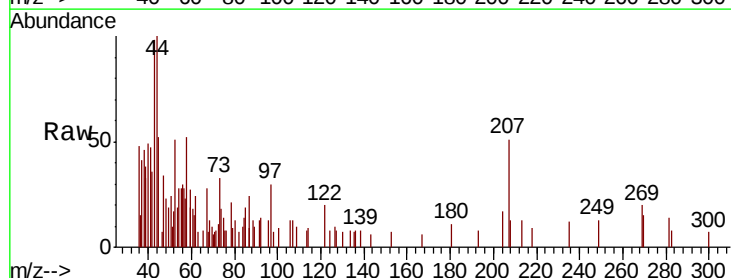
Acq: 31 Jul 2020 15:29

Tgt Ion: 43 Resp: 1795

Ion Ratio Lower Upper

43 100

58 27.2 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

5000

4000

3000

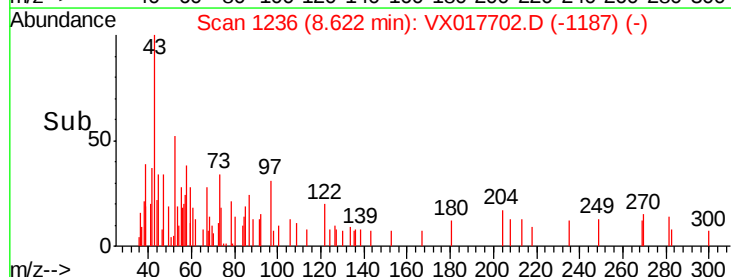
2000

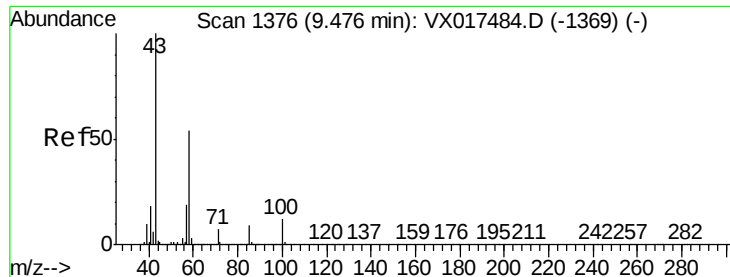
1000

0

8.60 8.65

Time-->

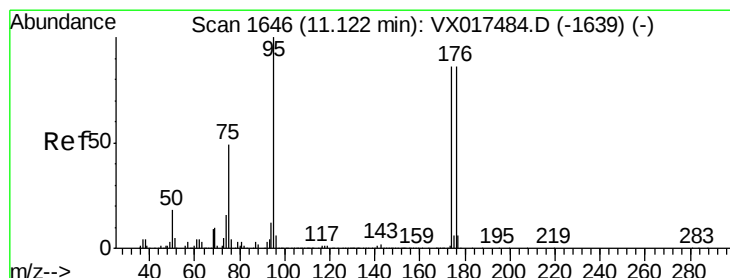
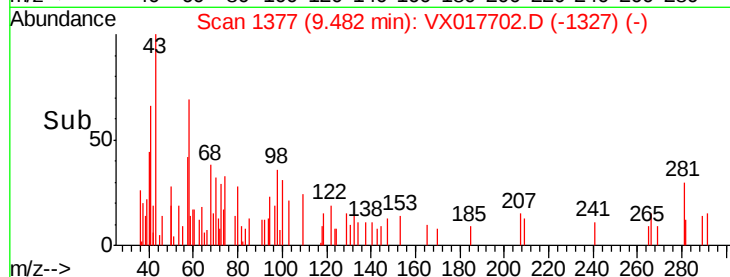
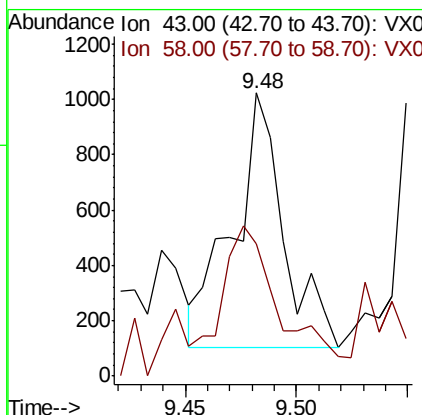
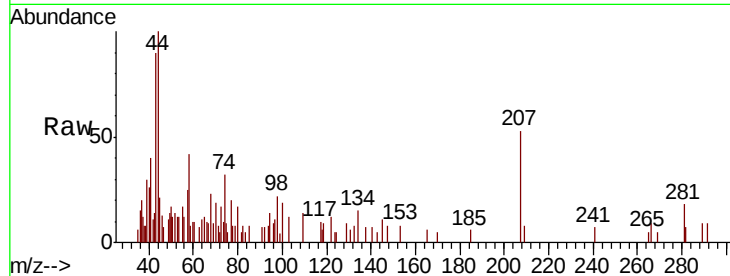




#59
2-Hexanone
Concen: 0.237 ug/l
RT: 9.48 min Scan# 1377
Delta R.T. 0.01 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

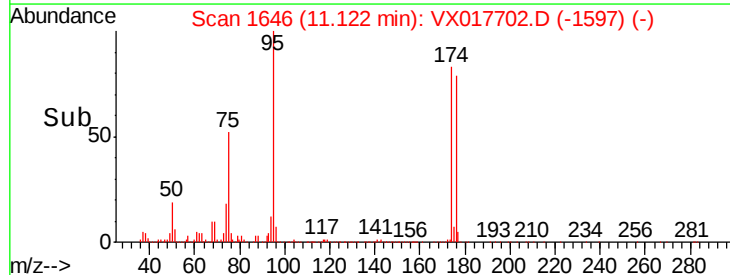
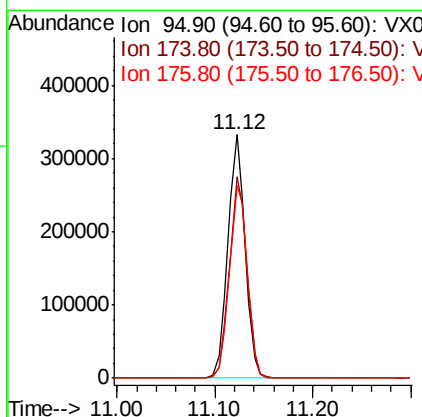
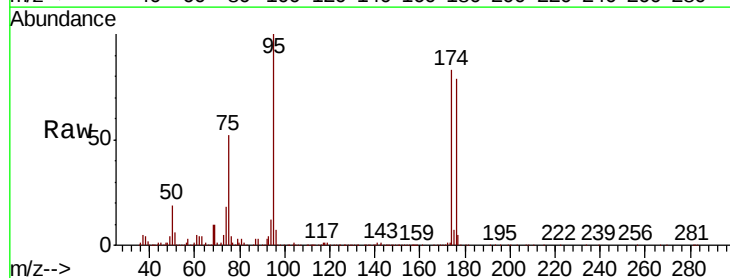
Instrument :
MSVOA_X
ClientSampleId :
2020-07-30-TB04

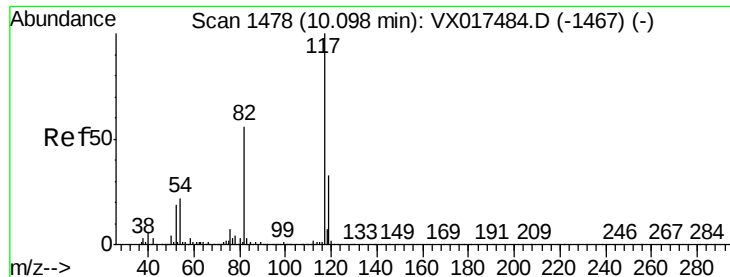
Tot Ion: 43 Resp: 1457
Ion Ratio Lower Upper
43 100
58 70.7 26.6 79.8



#62
4-Bromofluorobenzene
Concen: 53.187 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

Tgt Ion: 95 Resp: 406313
Ion Ratio Lower Upper
95 100
174 84.1 0.0 169.0
176 82.4 0.0 161.0

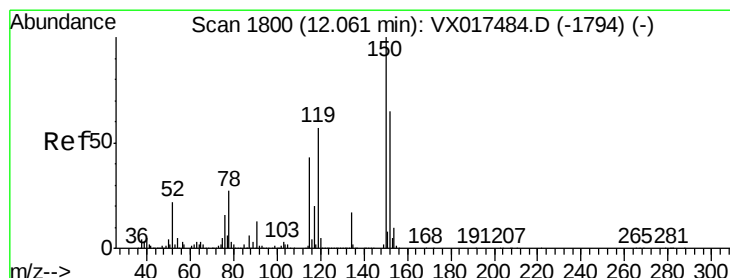
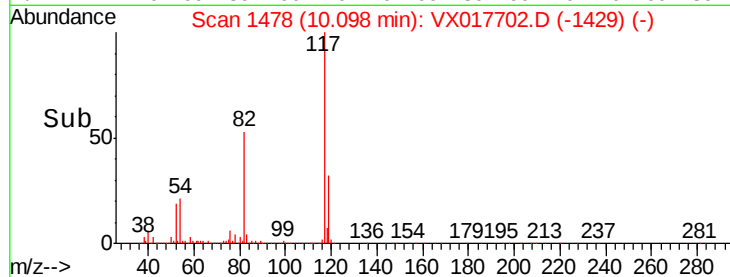
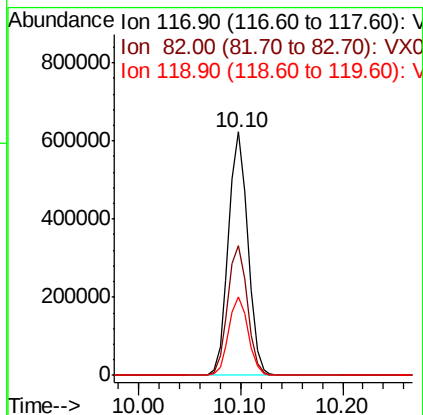
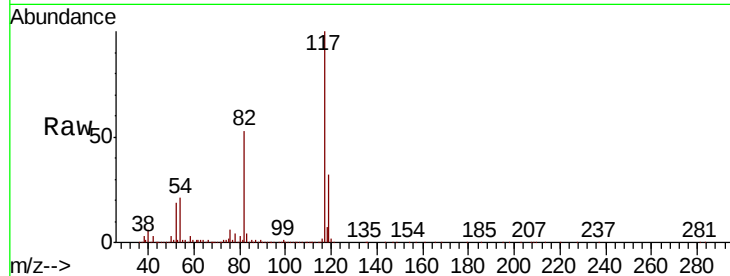




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

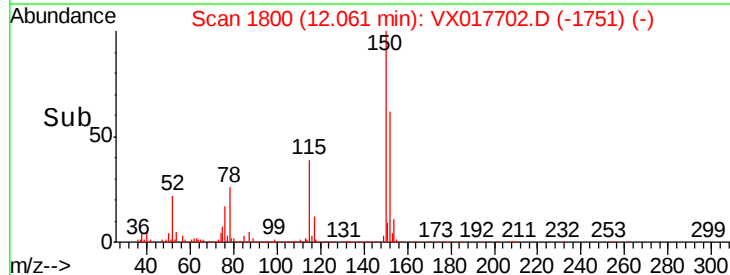
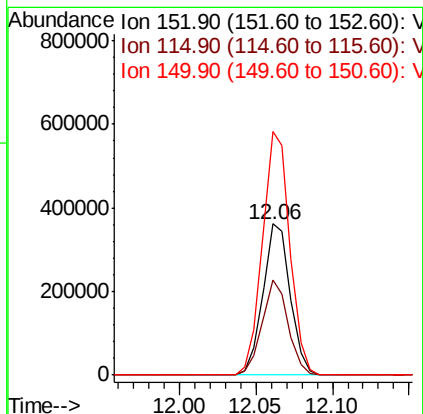
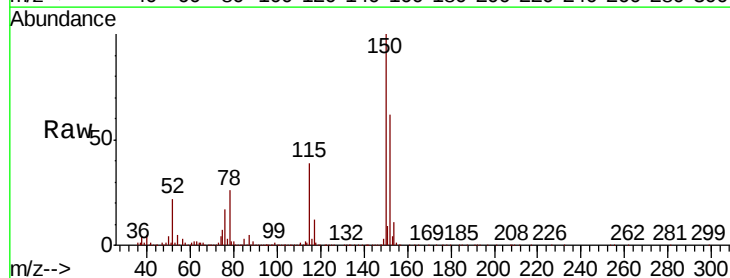
Instrument :
MSVOA_X
ClientSampleId :
2020-07-30-TB04

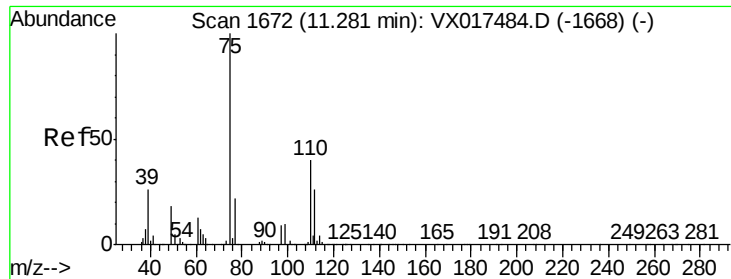
Tot Ion:117 Resp: 817686
Ion Ratio Lower Upper
117 100
82 53.0 44.0 66.0
119 32.4 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017702.D
Acq: 31 Jul 2020 15:29

Tgt Ion:152 Resp: 452161
Ion Ratio Lower Upper
152 100
115 60.0 65.5 196.6#
150 161.3 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 22.608 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

Instrument :

MSVOA_X

ClientSampleId :

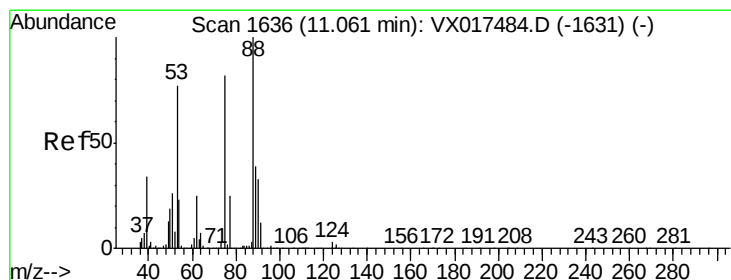
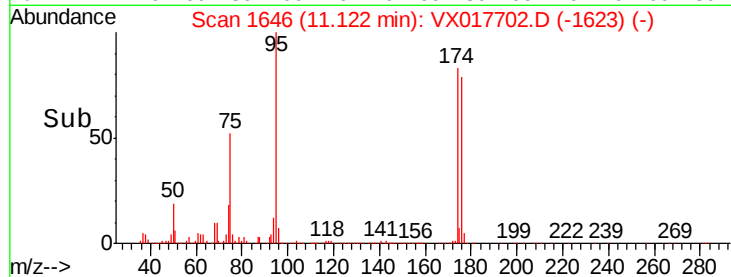
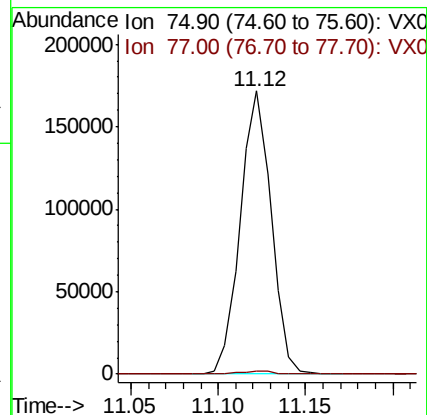
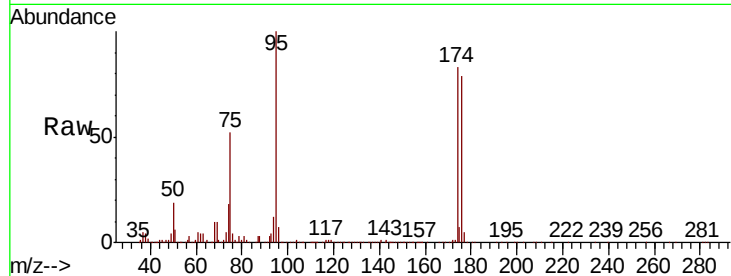
2020-07-30-TB04

Tot Ion: 75 Resp: 210279

Ion Ratio Lower Upper

75 100

77 1.2 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.967 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017702.D

Acq: 31 Jul 2020 15:29

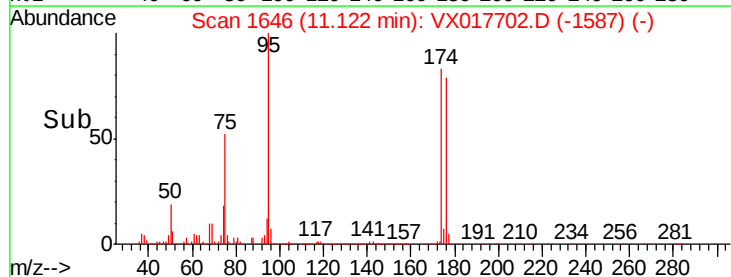
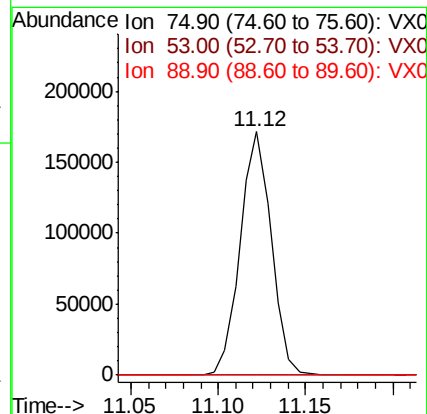
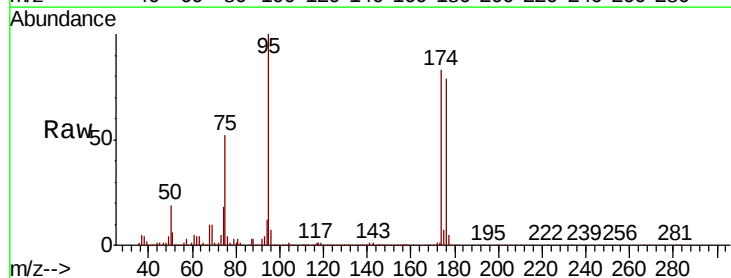
Tgt Ion: 75 Resp: 210279

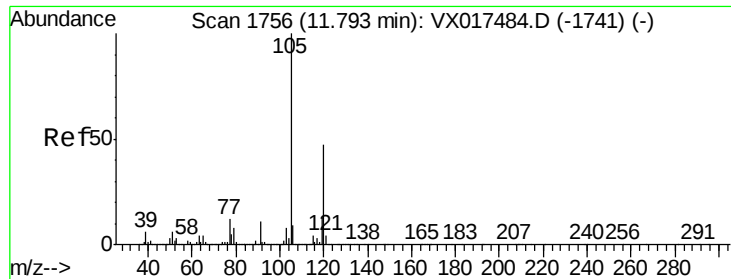
Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

89 0.0 37.8 56.6#

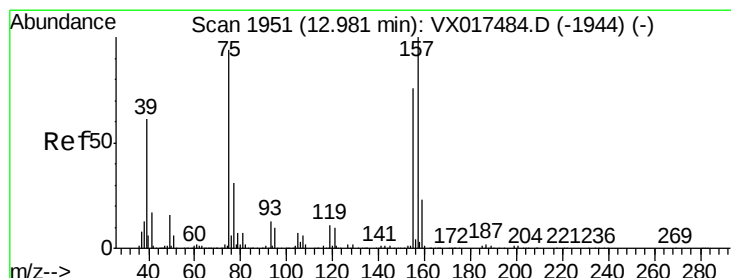
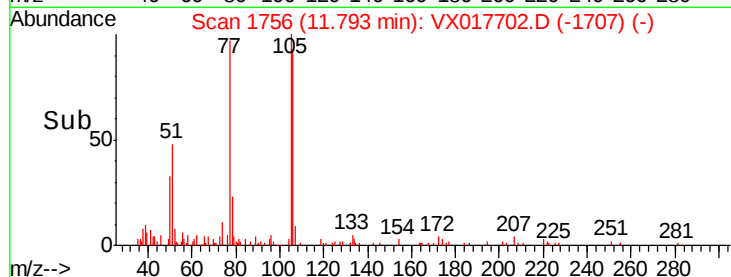
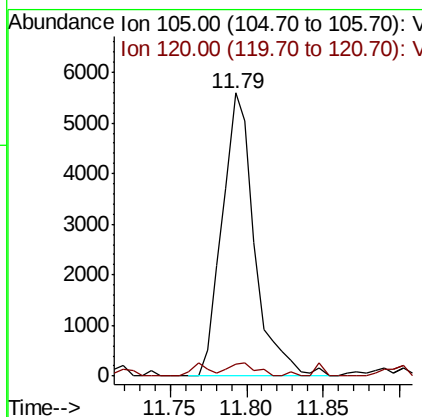
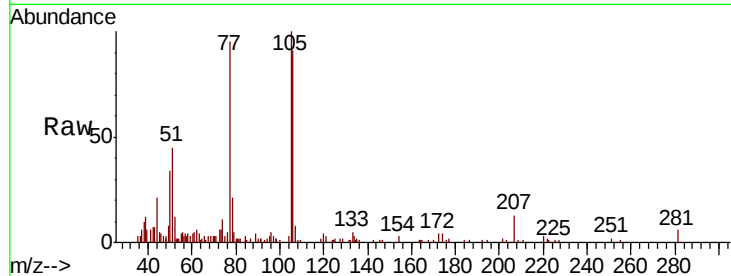




#84
 1,2,4-Trimethylbenzene
 Concen: 0.311 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX017702.D
 Acq: 31 Jul 2020 15:29

Instrument :
 MSVOA_X
 ClientSampleId :
 2020-07-30-TB04

Tot Ion:105 Resp: 8198
 Ion Ratio Lower Upper
 105 100
 120 3.9 22.7 68.0#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.721 ug/l
 RT: 12.98 min Scan# 1950
 Delta R.T. -0.01 min
 Lab File: VX017702.D
 Acq: 31 Jul 2020 15:29

Tgt Ion: 75 Resp: 418
 Ion Ratio Lower Upper
 75 100
 155 34.4 42.3 126.8#
 157 5.3 54.3 162.9#

