

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019544.D
 Acq On : 23 Nov 2020 12:44
 Operator : JC/MD
 Sample : L4798-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB01-20201118

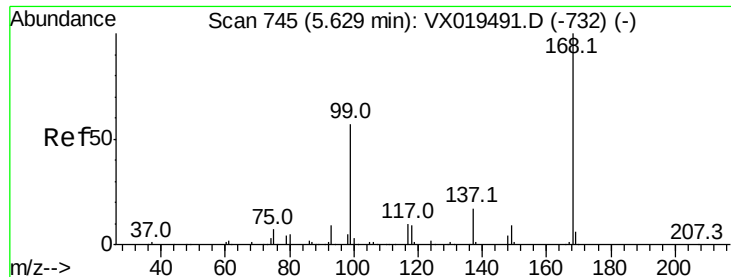
Quant Time: Nov 24 00:31:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	328211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.82	114	532357	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	457049	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	199055	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	193299	45.42	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	90.84%	
35) Dibromofluoromethane		5.46	113	156745	46.91	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.82%	
50) Toluene-d8		8.70	98	618407	47.62	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	95.24%	
62) 4-Bromofluorobenzene		11.12	95	213779	45.76	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	470	0.315	ug/l #	80
6) Chloroethane	1.70	64	485	Below Cal	#	53
11) Tert butyl alcohol	3.00	59	6383	7.926	ug/l #	73
13) Acrolein	2.28	56	733	1.354	ug/l #	43
15) Acrylonitrile	3.12	53	519	0.273	ug/l #	91
16) Acetone	2.43	43	2190	1.331	ug/l	99
17) Carbon Disulfide	2.54	76	2843	0.325	ug/l #	95
18) Methyl Acetate	2.75	43	1108	0.906	ug/l #	76
20) Methylene Chloride	2.82	84	1892	0.460	ug/l #	84
25) 2-Butanone	4.65	43	1130	0.457	ug/l #	87
31) Cyclohexane	5.62	56	6397	1.156	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24548	4.919	ug/l #	49
38) Carbon Tetrachloride	5.62	117	31902	6.604	ug/l #	16
49) 1,4-Dioxane	7.73	88	18	0.215	ug/l #	1
70) Styrene	10.70	104	567	1.696	ug/l	92
71) Bromoform	10.84	173	38	3.615	ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	103871	23.911	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	103871	63.347	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	886	0.213	ug/l	98
94) Hexachlorobutadiene	13.76	225	538	0.284	ug/l	87
95) Naphthalene	13.82	128	2433	2.337	ug/l #	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019544.D

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ClientSampleId :

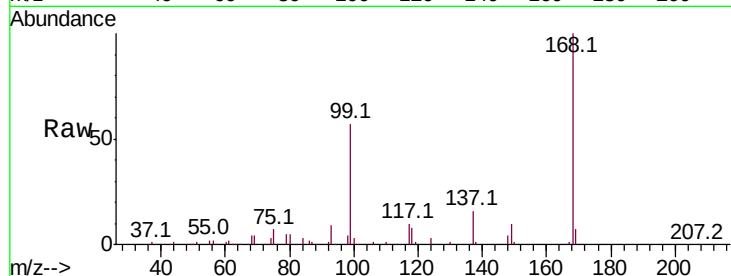
TB01-20201118

Tot Ion:168 Resp: 328211

Ion Ratio Lower Upper

168 100

99 57.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

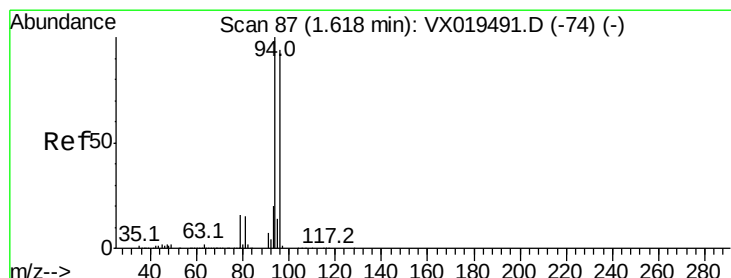
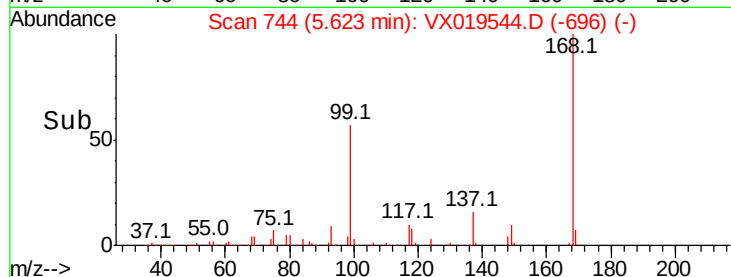
100000

50000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.315 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019544.D

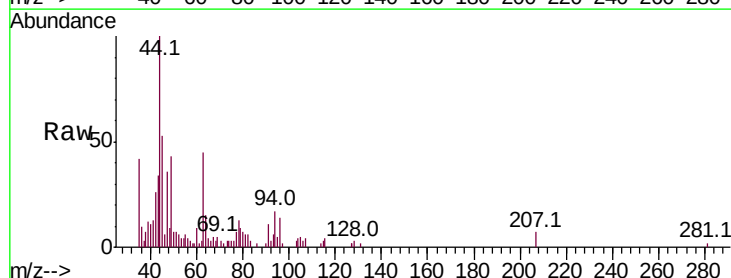
Acq: 23 Nov 2020 12:44

Tgt Ion: 94 Resp: 470

Ion Ratio Lower Upper

94 100

96 75.1 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

500

400

300

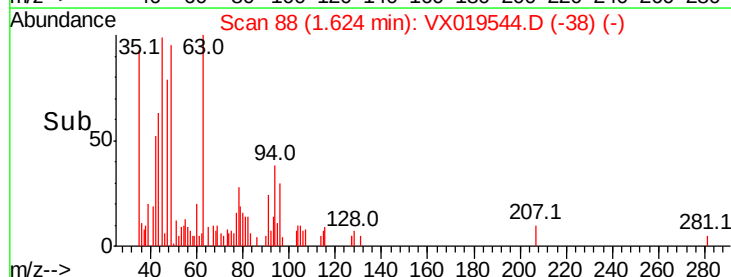
200

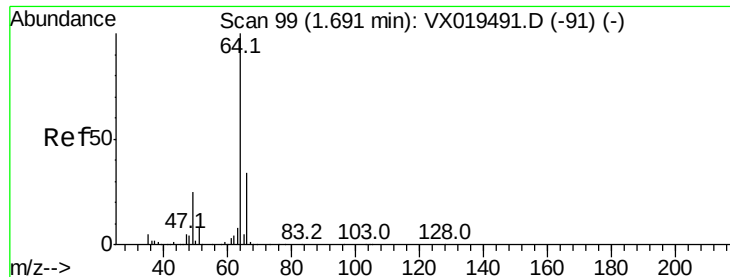
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

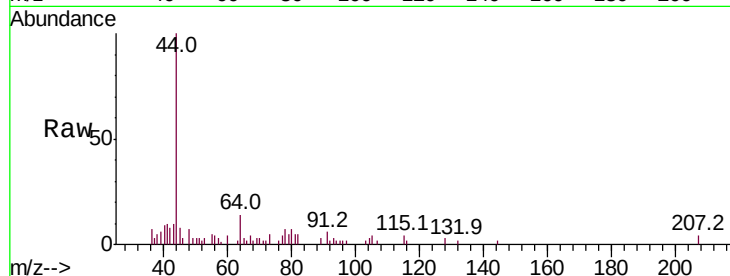
TB01-20201118

Tot Ion: 64 Resp: 485

Ion Ratio Lower Upper

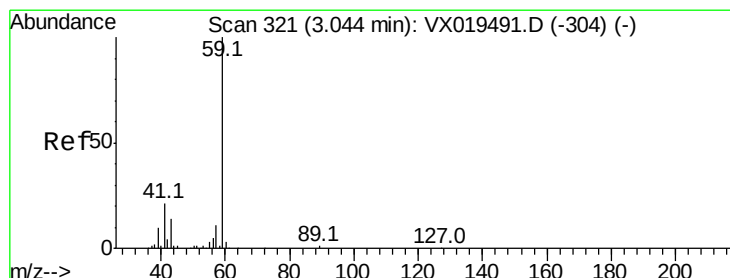
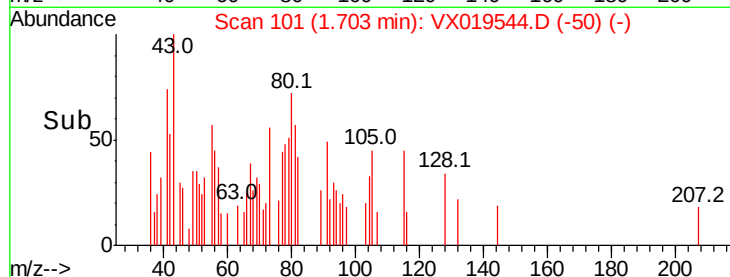
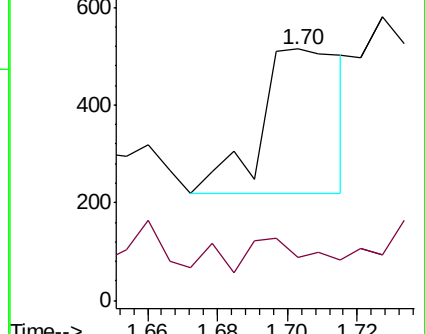
64 100

66 6.7 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 7.926 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019544.D

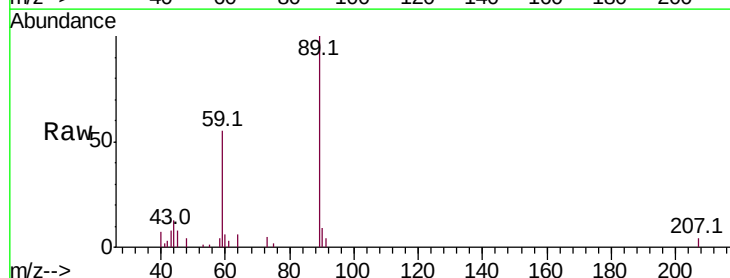
Acq: 23 Nov 2020 12:44

Tgt Ion: 59 Resp: 6383

Ion Ratio Lower Upper

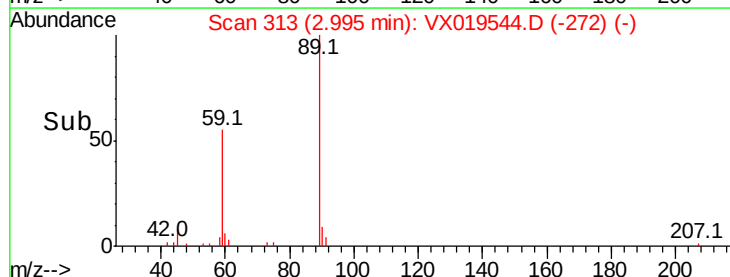
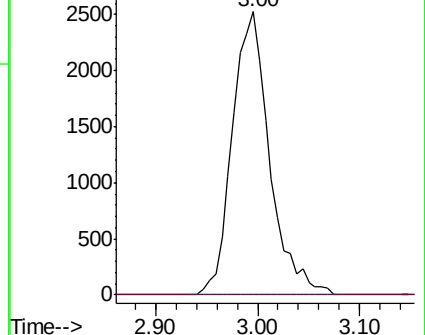
59 100

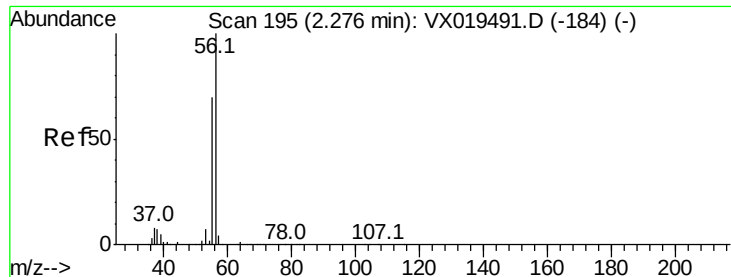
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.354 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

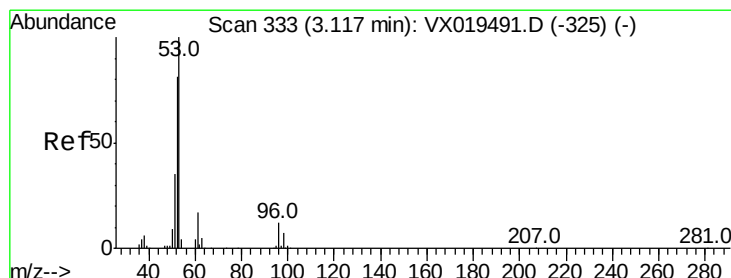
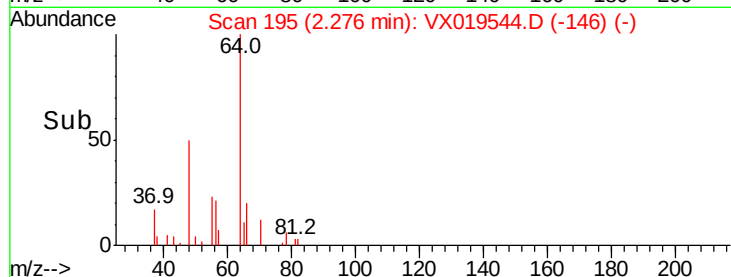
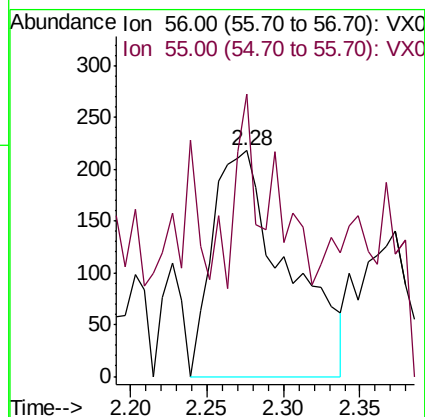
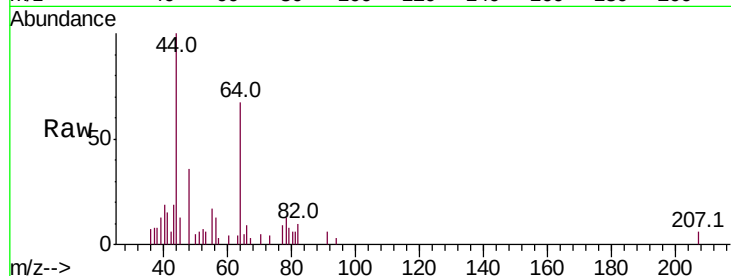
TB01-20201118

Tot Ion: 56 Resp: 733

Ion Ratio Lower Upper

56 100

55 22.9 55.5 83.3#



#15

Acrylonitrile

Concen: 0.273 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

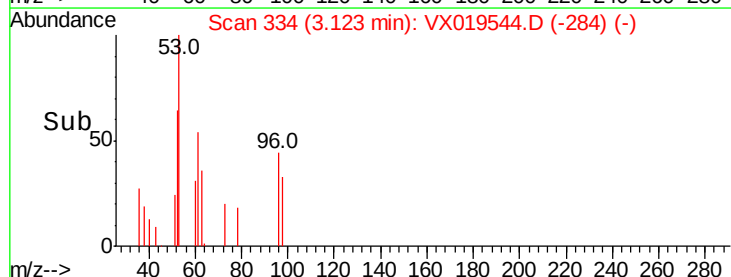
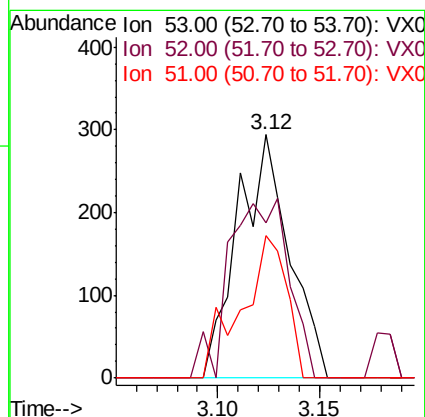
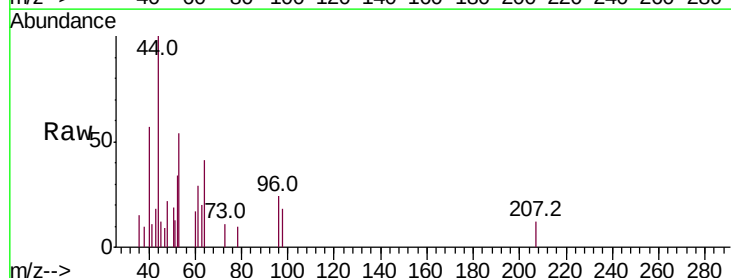
Tgt Ion: 53 Resp: 519

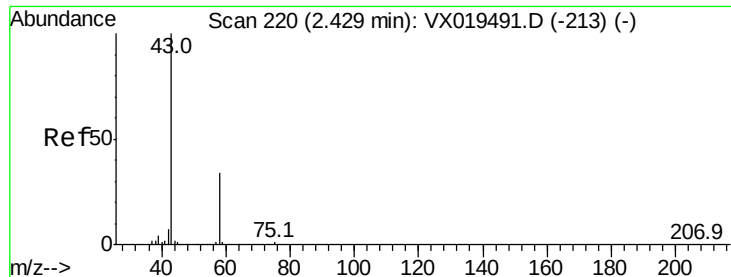
Ion Ratio Lower Upper

53 100

52 84.2 66.2 99.2

51 51.3 28.5 42.7#





#16

Acetone

Concen: 1.331 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

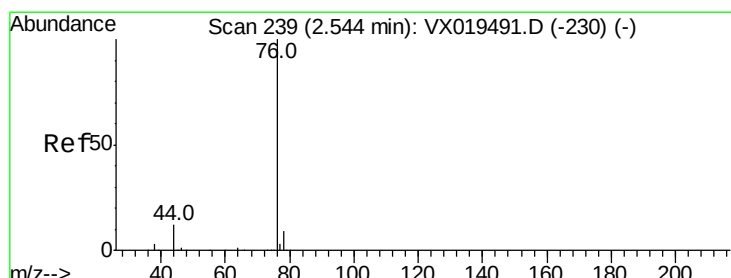
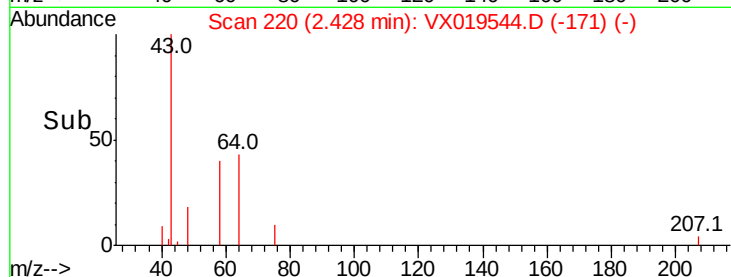
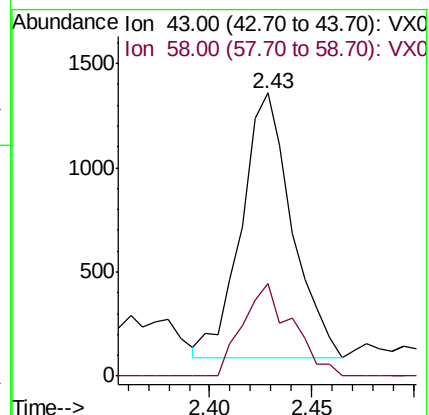
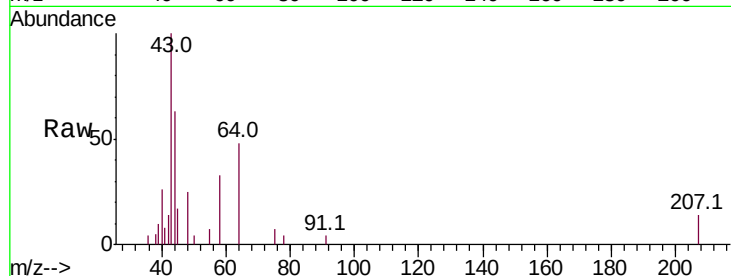
TB01-20201118

Tot Ion: 43 Resp: 2190

Ion Ratio Lower Upper

43 100

58 35.0 27.4 41.2



#17

Carbon Disulfide

Concen: 0.325 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.01 min

Lab File: VX019544.D

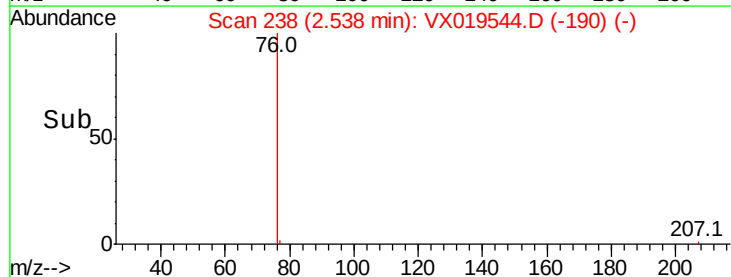
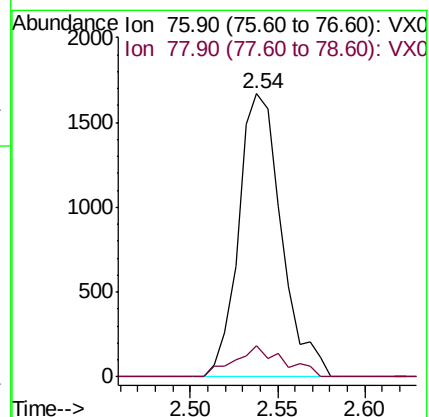
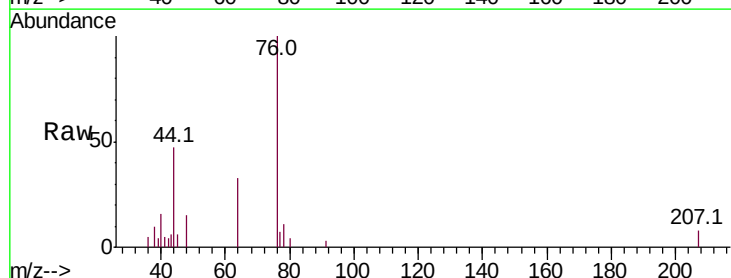
Acq: 23 Nov 2020 12:44

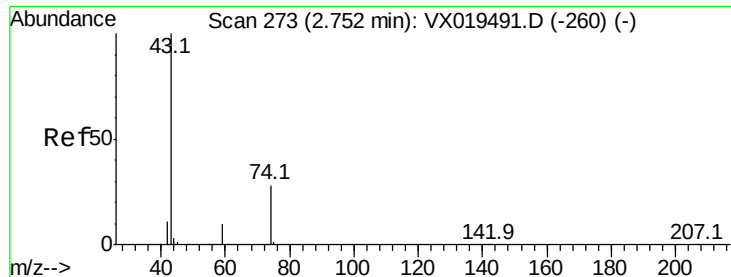
Tgt Ion: 76 Resp: 2843

Ion Ratio Lower Upper

76 100

78 10.8 7.2 10.8#





#18

Methvl Acetate

Concen: 0.906 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

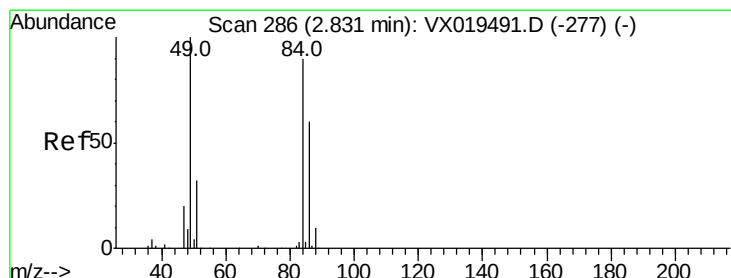
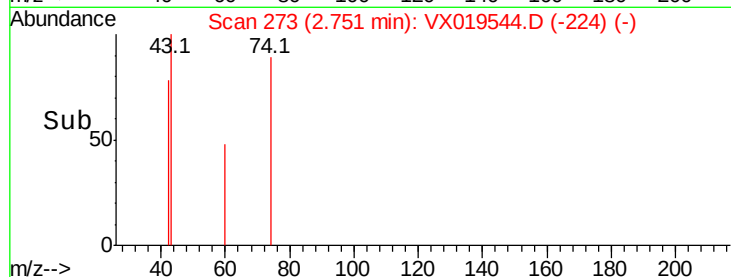
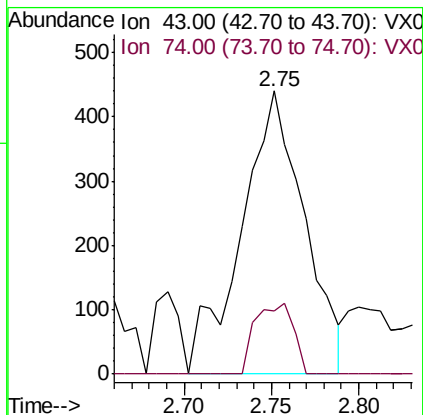
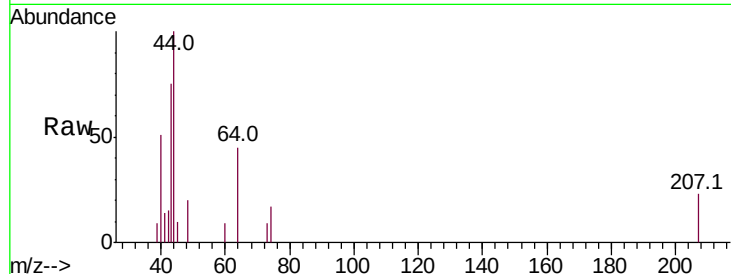
TB01-20201118

Tot Ion: 43 Resp: 1108

Ion Ratio Lower Upper

43 100

74 15.0 22.2 33.4#



#20

Methylene Chloride

Concen: 0.460 ug/l

RT: 2.82 min Scan# 285

Delta R.T. -0.01 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Tgt Ion: 84 Resp: 1892

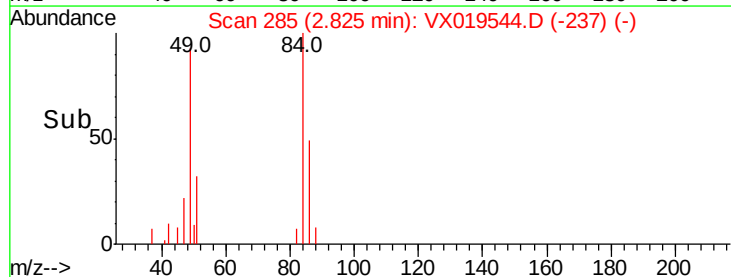
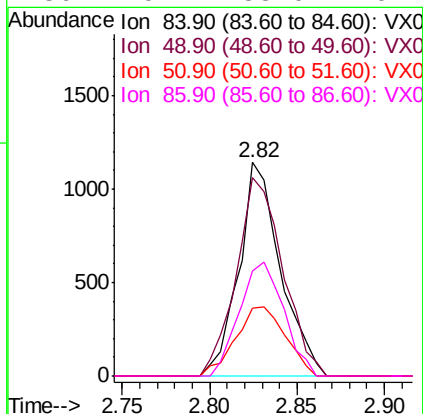
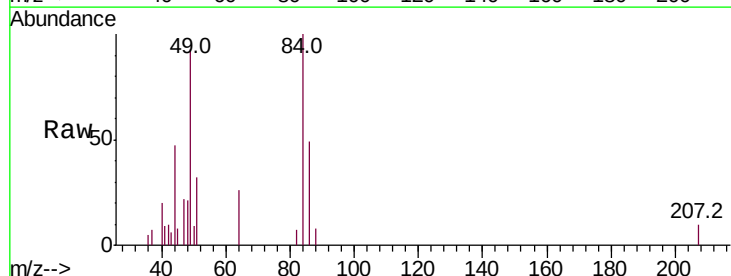
Ion Ratio Lower Upper

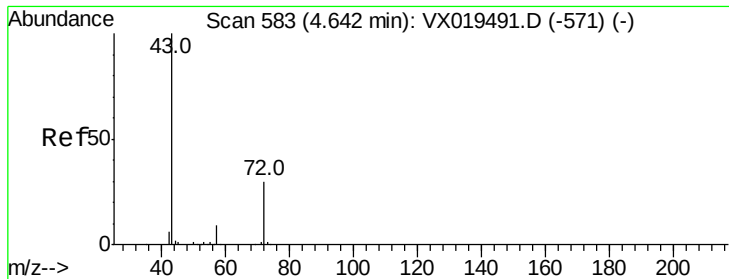
84 100

49 93.2 88.5 132.7

51 31.7 28.0 42.0

86 49.2 53.0 79.4#





#25

2-Butanone

Concen: 0.457 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

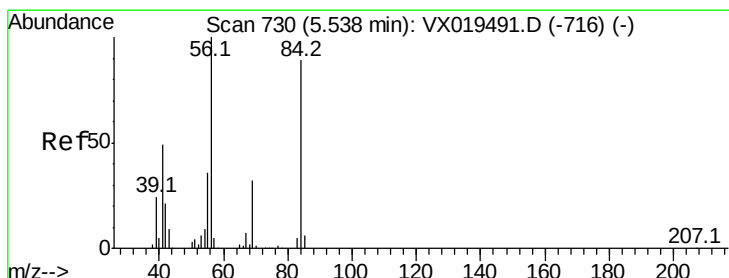
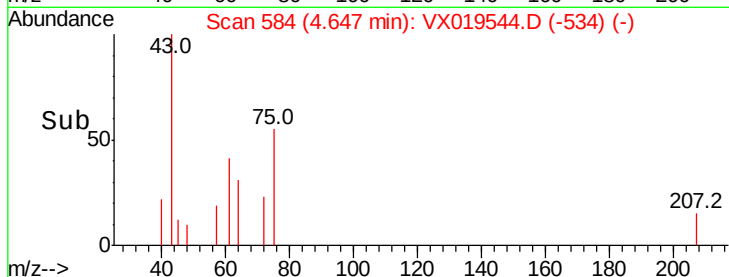
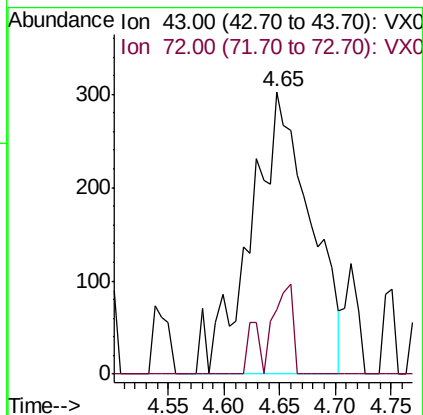
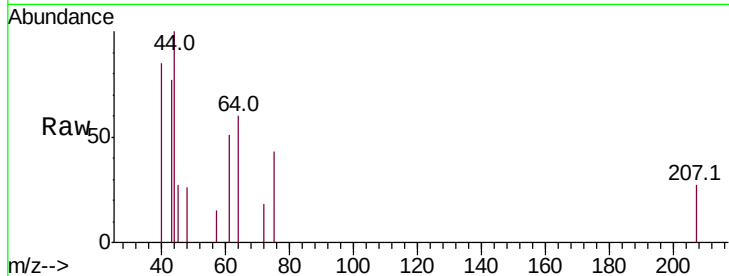
TB01-20201118

Tot Ion: 43 Resp: 1130

Ion Ratio Lower Upper

43 100

72 22.8 24.0 36.0#



#31

Cyclohexane

Concen: 1.156 ug/l

RT: 5.62 min Scan# 743

Delta R.T. 0.08 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

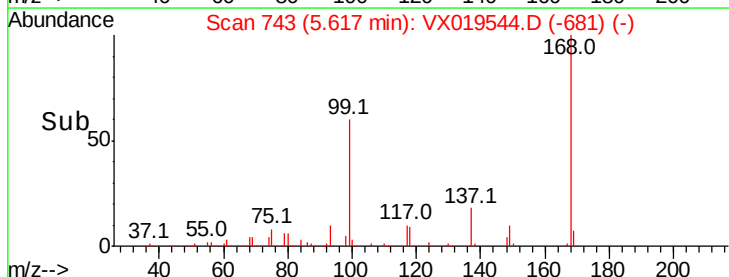
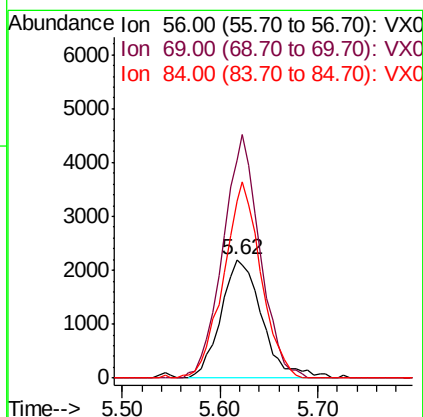
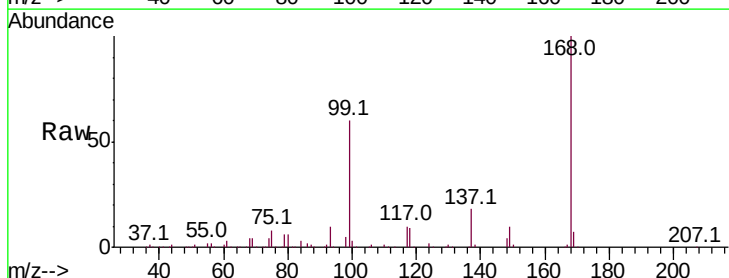
Tgt Ion: 56 Resp: 6397

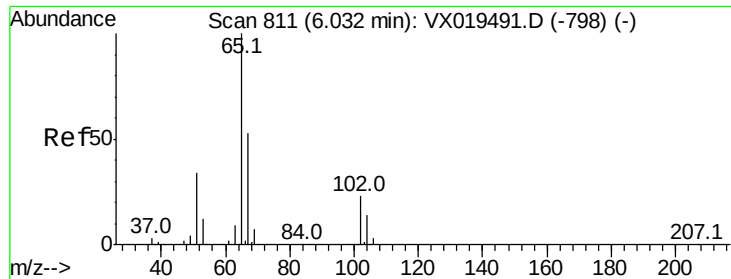
Ion Ratio Lower Upper

56 100

69 184.2 25.5 38.3#

84 149.5 71.1 106.7#

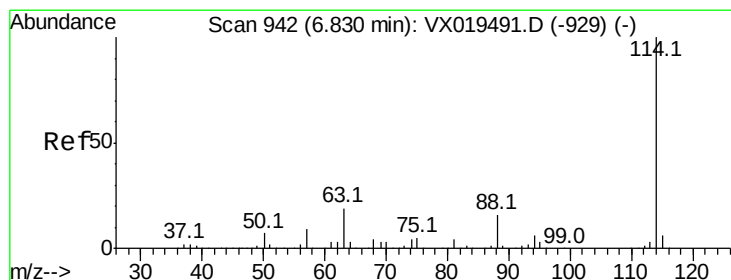
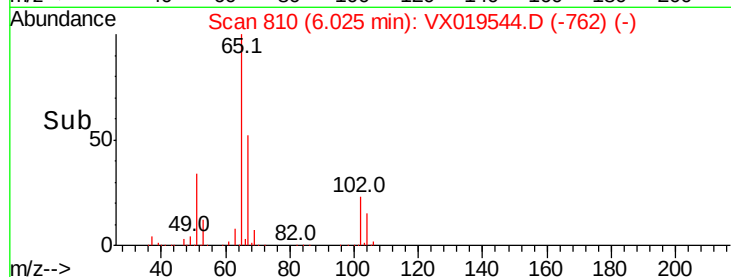
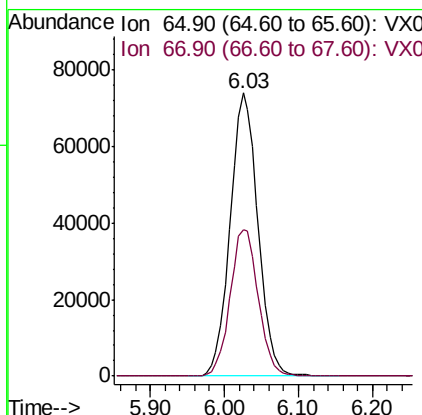
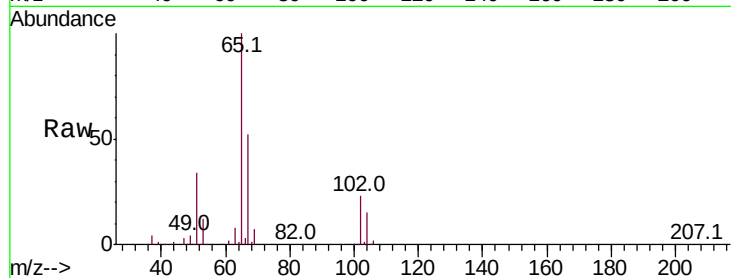




#33
 1,2-Dichloroethane-d4
 Concen: 45.423 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.01 min
 Lab File: VX019544.D
 Acq: 23 Nov 2020 12:44

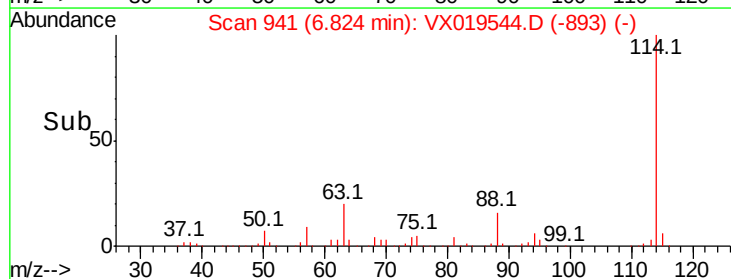
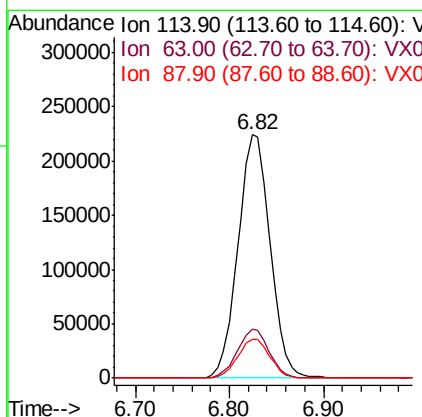
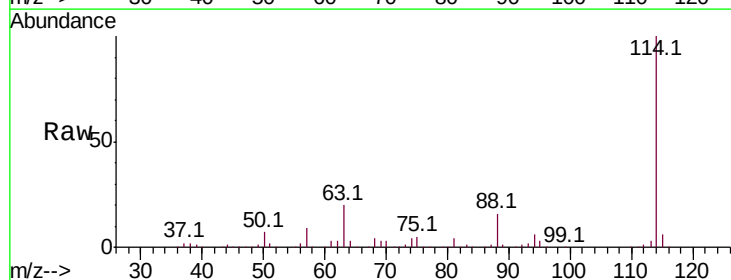
Instrument :
 MSVOA_X
 ClientSampleId :
 TB01-20201118

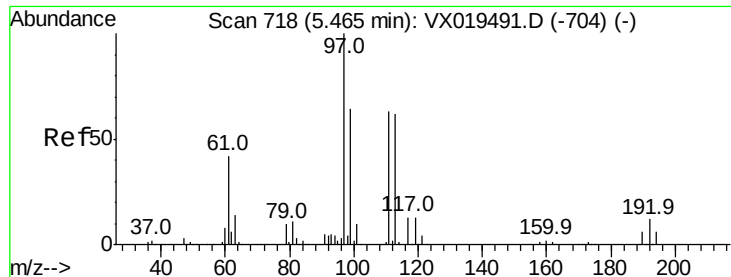
Tot Ion: 65 Resp: 193299
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.82 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: VX019544.D
 Acq: 23 Nov 2020 12:44

Tgt Ion: 114 Resp: 532357
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 38.8
 88 15.7 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.907 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

TB01-20201118

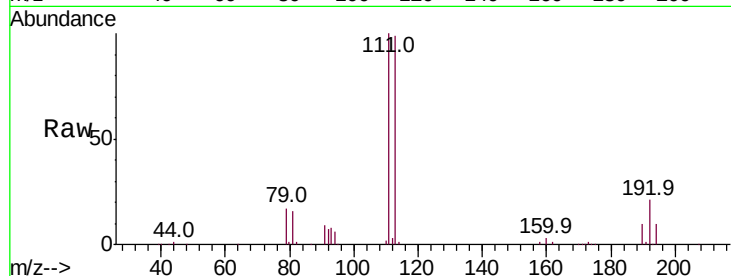
Tot Ion:113 Resp: 156745

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

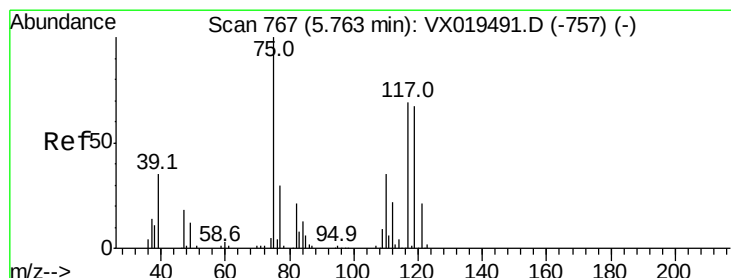
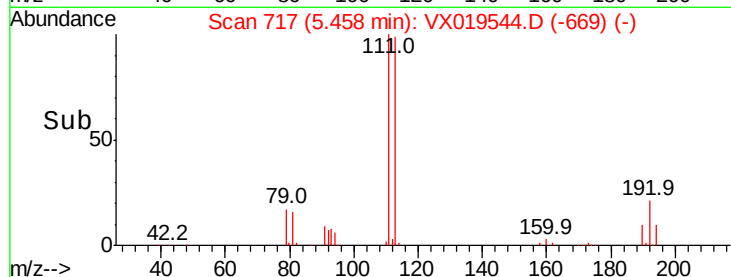
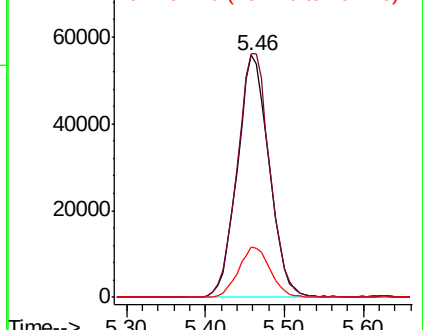
192 20.8 16.2 24.2



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: 4.919 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

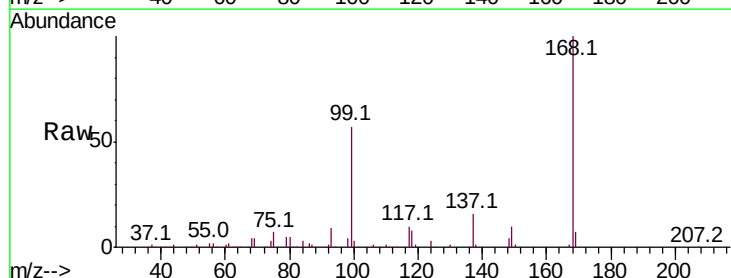
Tgt Ion: 75 Resp: 24548

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

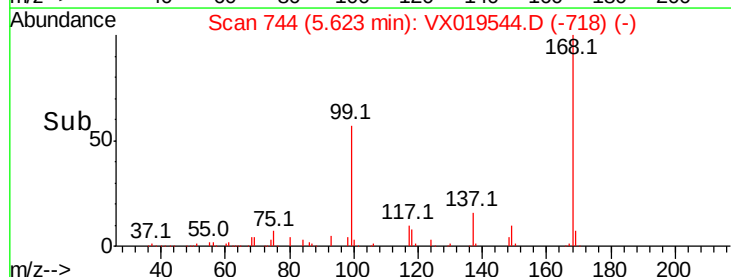
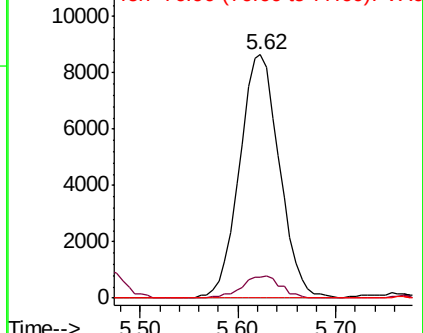
77 0.0 24.2 36.4#

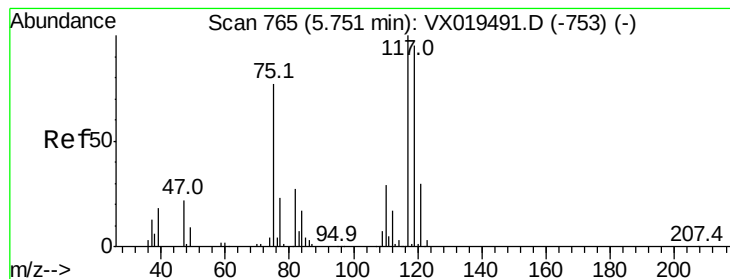


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.604 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

TB01-20201118

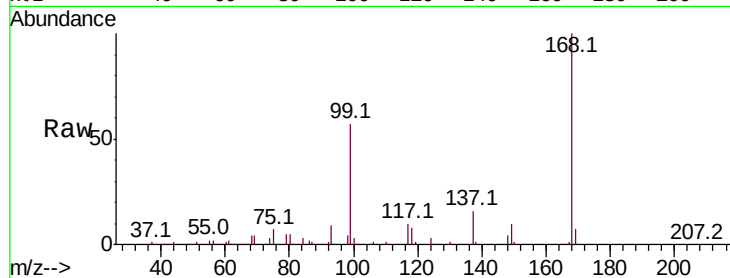
Tot Ion:117 Resp: 31902

Ion Ratio Lower Upper

117 100

119 5.2 75.9 113.9#

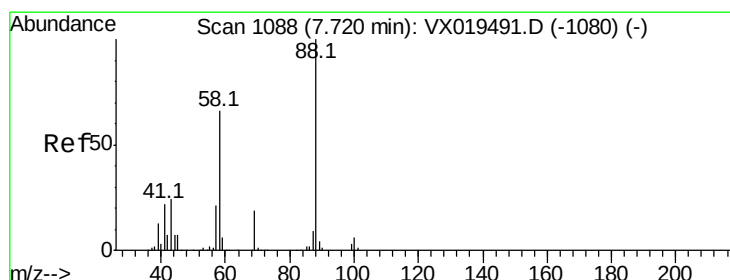
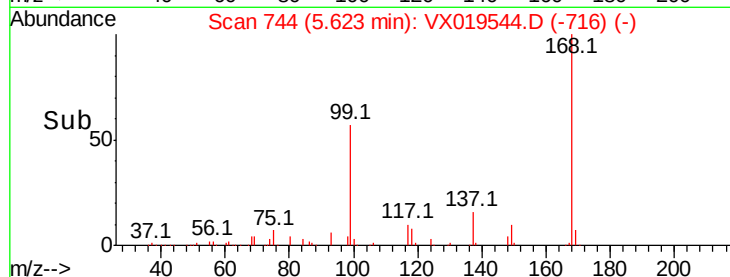
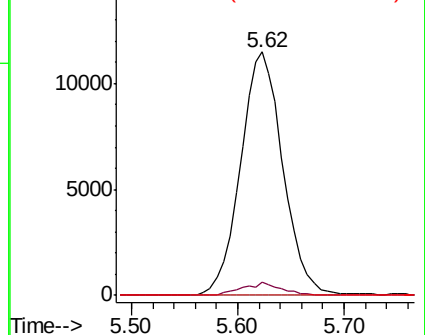
121 0.0 24.0 36.0#



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: 0.215 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

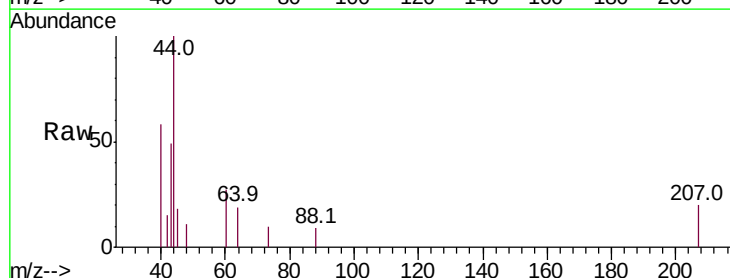
Tgt Ion: 88 Resp: 18

Ion Ratio Lower Upper

88 100

43 1261.1 23.8 35.6#

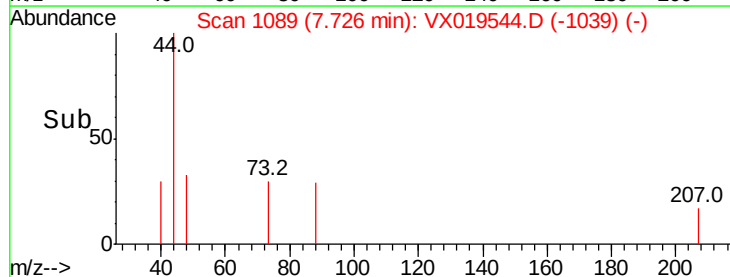
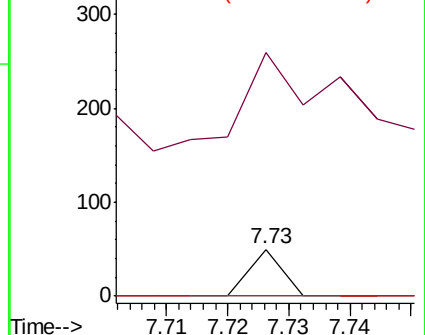
58 0.0 54.2 81.2#

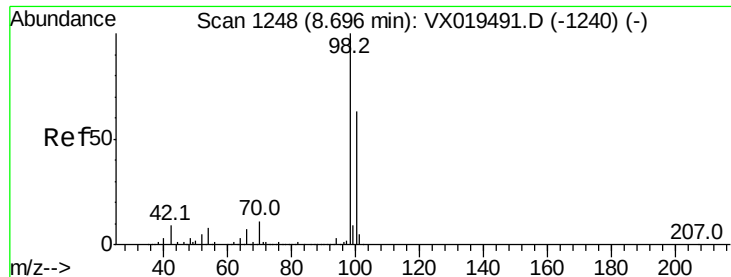


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.624 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

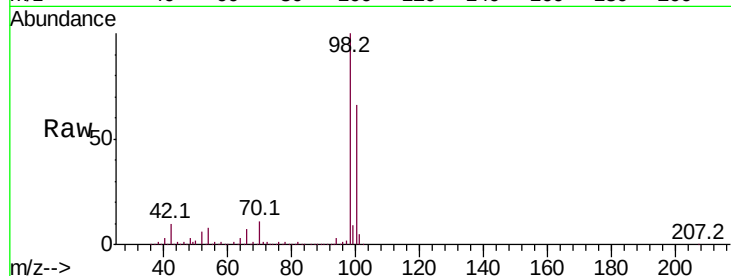
TB01-20201118

Tot Ion: 98 Resp: 618407

Ion Ratio Lower Upper

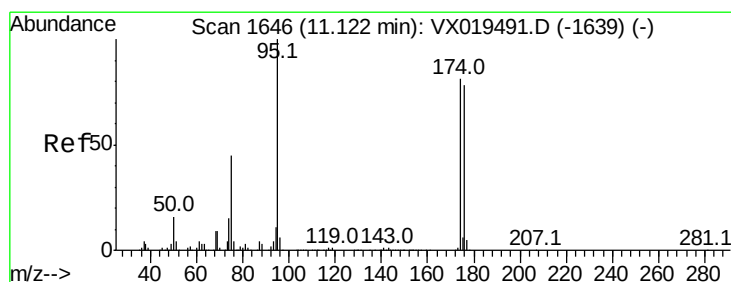
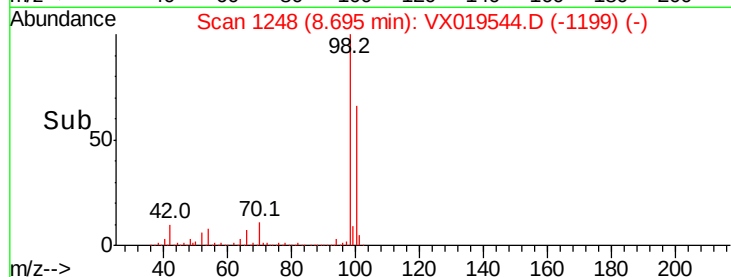
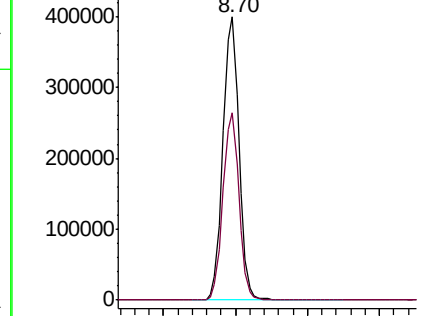
98 100

100 66.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 45.759 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

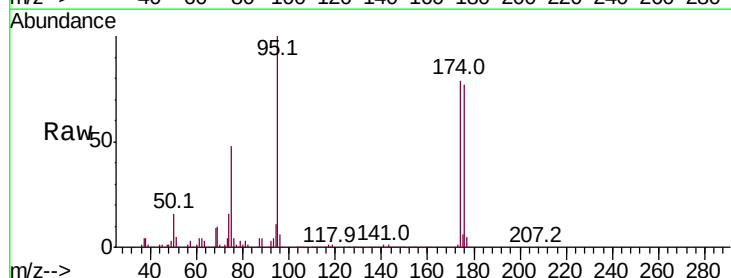
Tgt Ion: 95 Resp: 213779

Ion Ratio Lower Upper

95 100

174 76.8 0.0 156.2

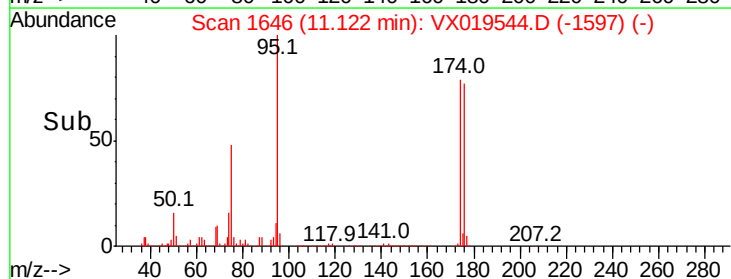
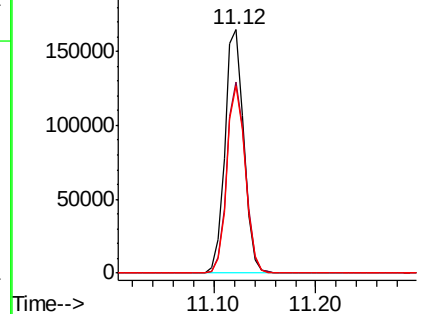
176 74.9 0.0 151.4

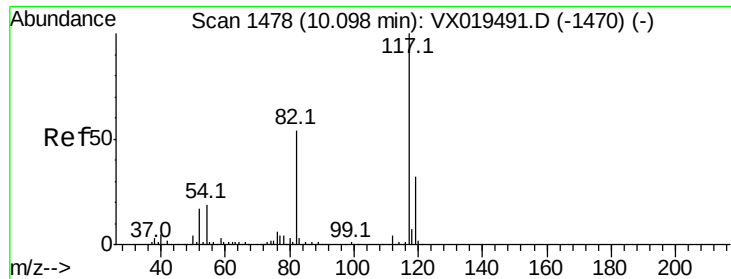


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

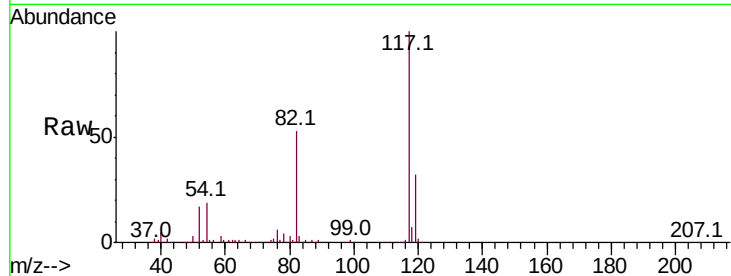




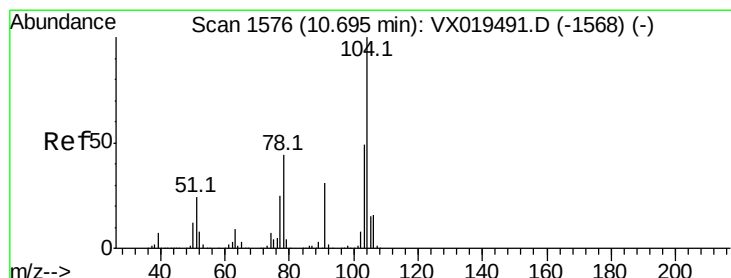
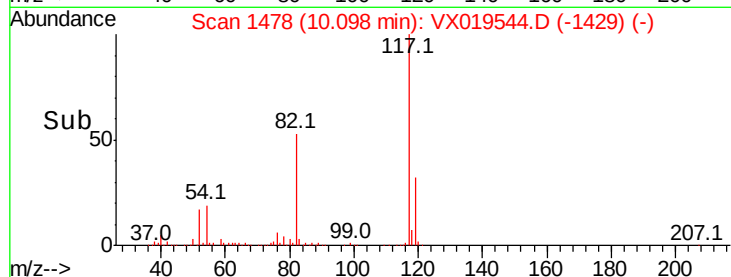
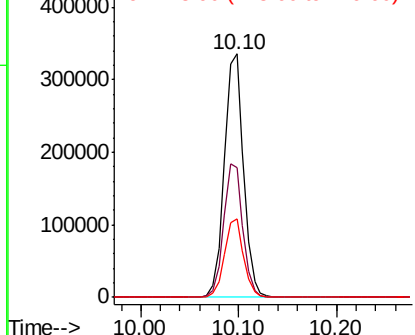
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019544.D
Acq: 23 Nov 2020 12:44

Instrument :
MSVOA_X
ClientSampleId :
TB01-20201118

Tot Ion:117 Resp: 457049
Ion Ratio Lower Upper
117 100
82 53.2 43.0 64.4
119 32.4 25.6 38.4

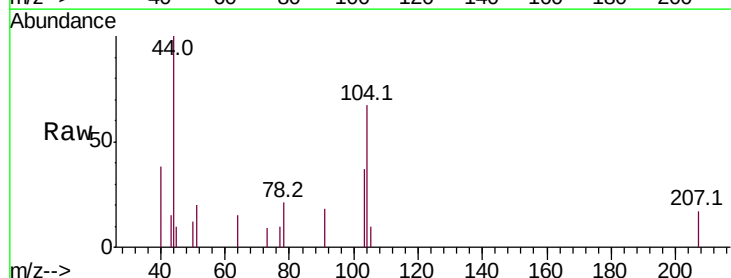


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

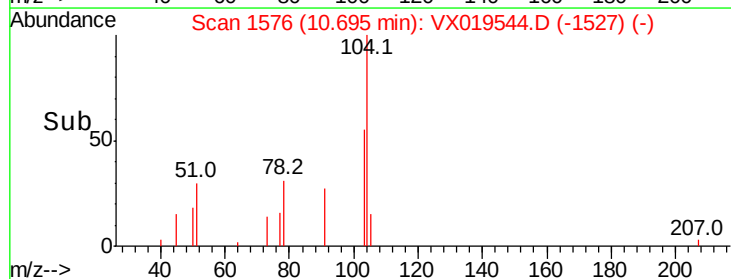
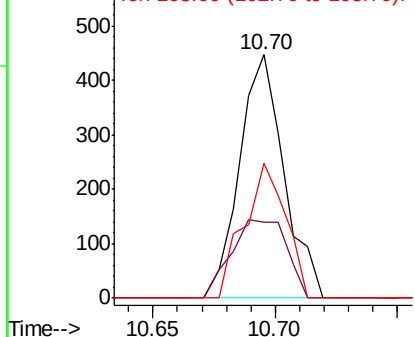


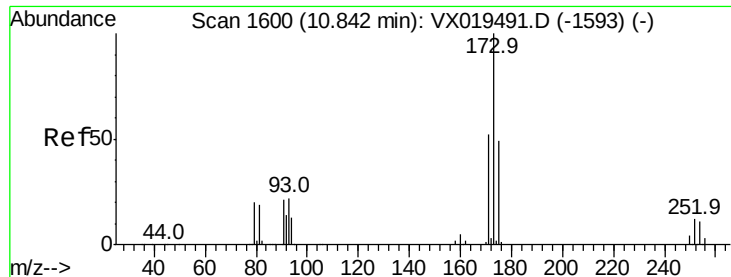
#70
Styrene
Concen: 1.696 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019544.D
Acq: 23 Nov 2020 12:44

Tgt Ion:104 Resp: 567
Ion Ratio Lower Upper
104 100
78 40.4 39.5 59.3
103 52.0 43.6 65.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 3.615 ug/l

RT: 10.84 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

TB01-20201118

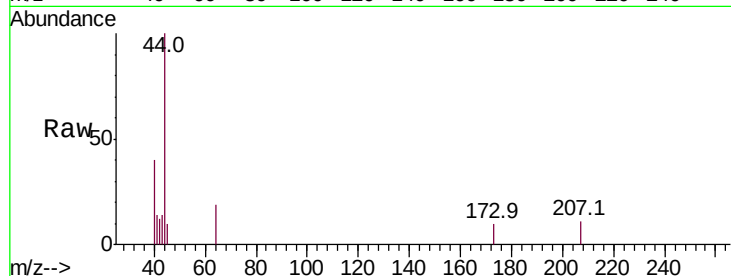
Tot Ion:173 Resp: 38

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.8#

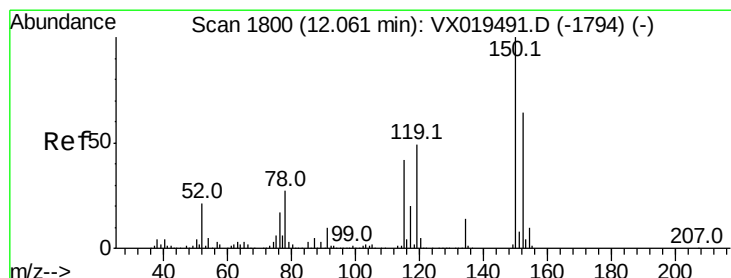
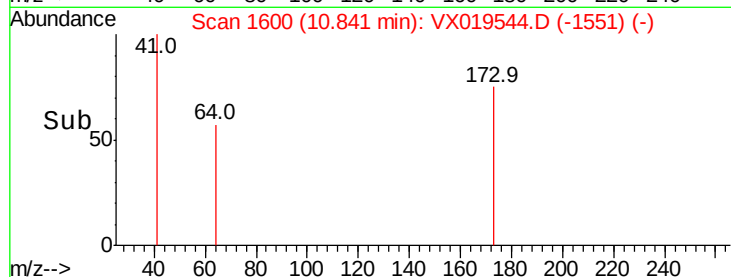
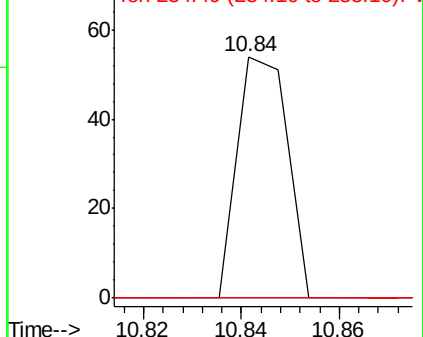
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX019544.D

Acq: 23 Nov 2020 12:44

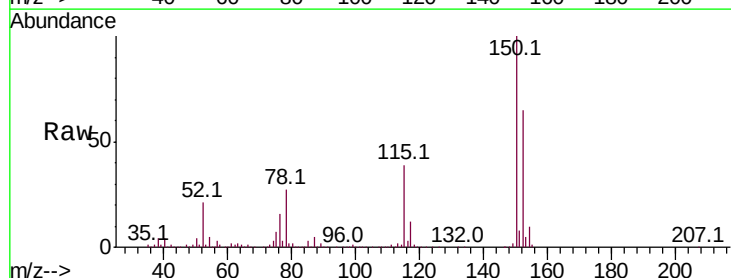
Tgt Ion:152 Resp: 199055

Ion Ratio Lower Upper

152 100

115 59.3 41.8 125.4

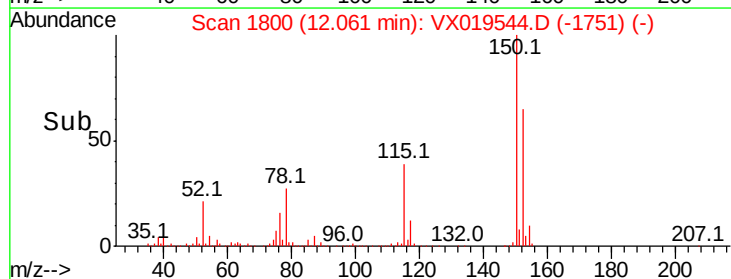
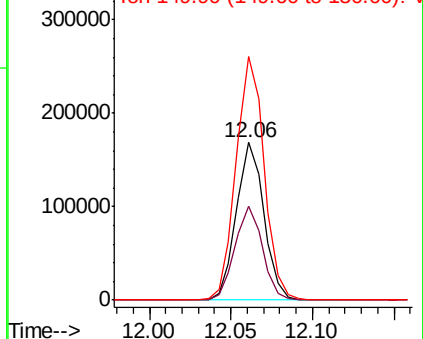
150 157.4 0.0 348.2

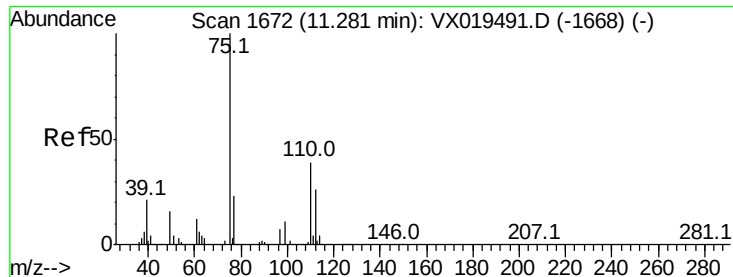


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.911 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

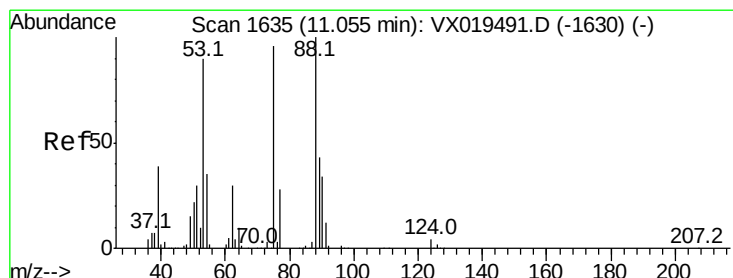
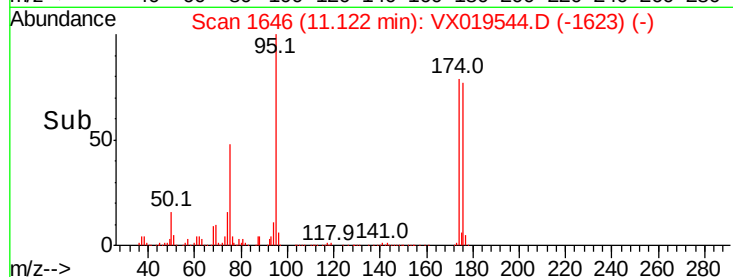
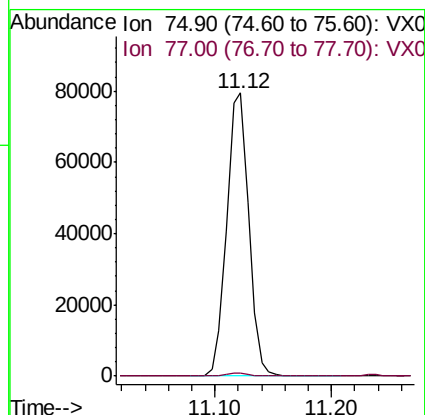
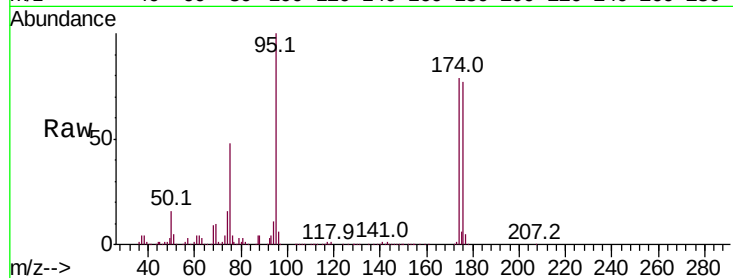
TB01-20201118

Tot Ion: 75 Resp: 103871

Ion Ratio Lower Upper

75 100

77 1.2 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.347 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

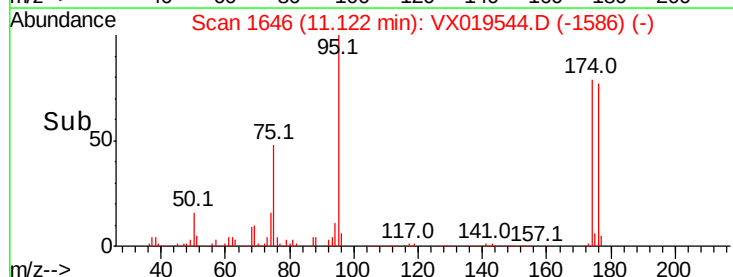
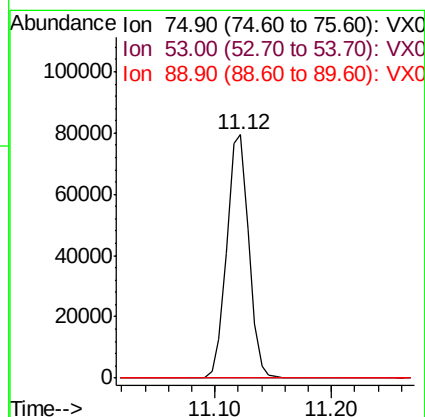
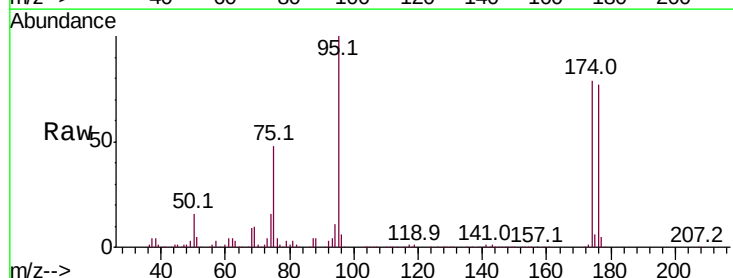
Tgt Ion: 75 Resp: 103871

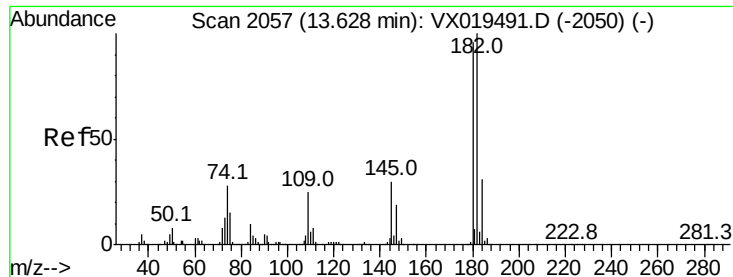
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#

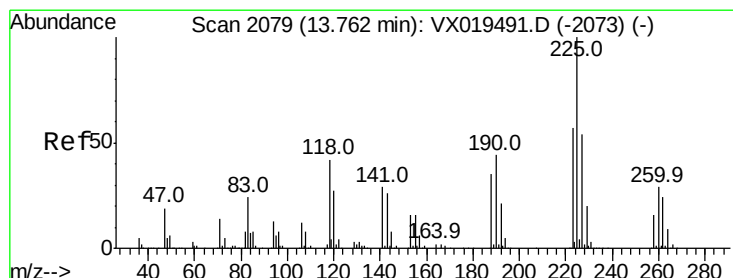
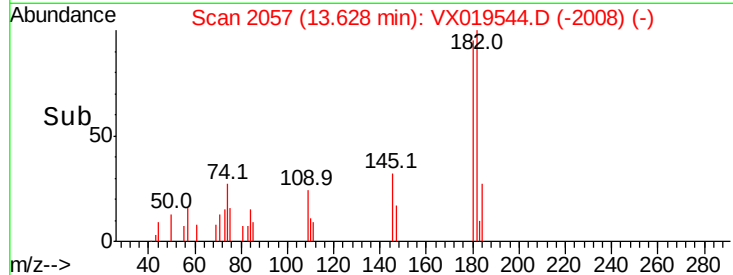
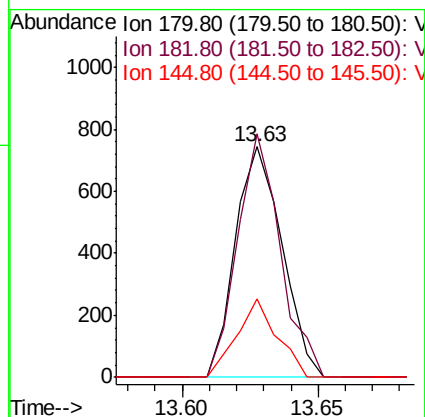
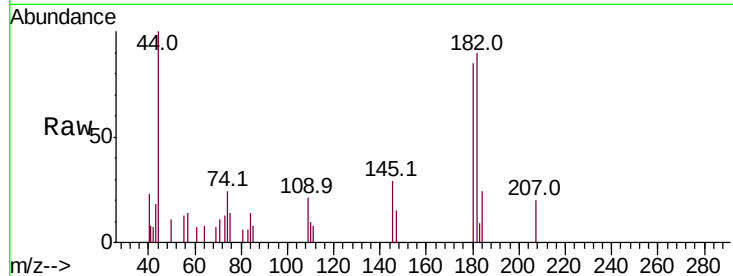




#93
 1,2,4-Trichlorobenzene
 Concen: 0.213 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX019544.D
 Acq: 23 Nov 2020 12:44

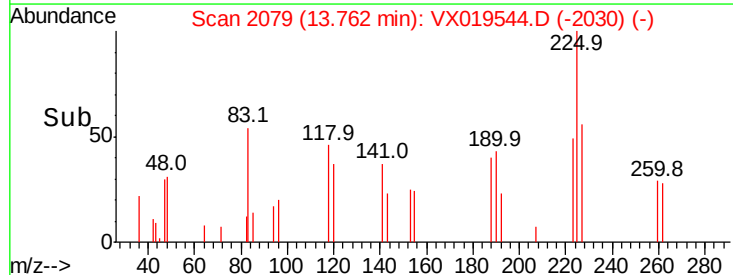
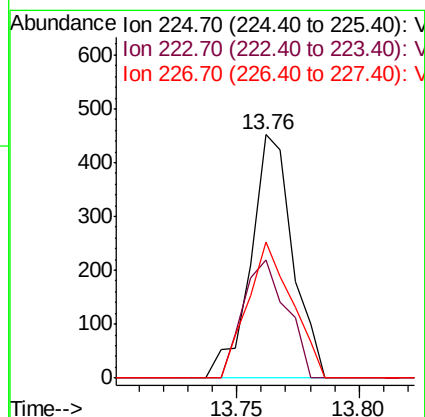
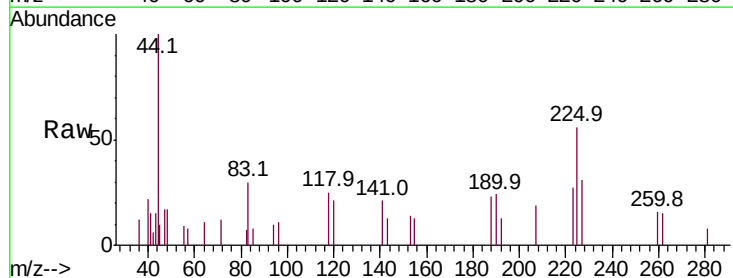
Instrument :
 MSVOA_X
 ClientSampleId :
 TB01-20201118

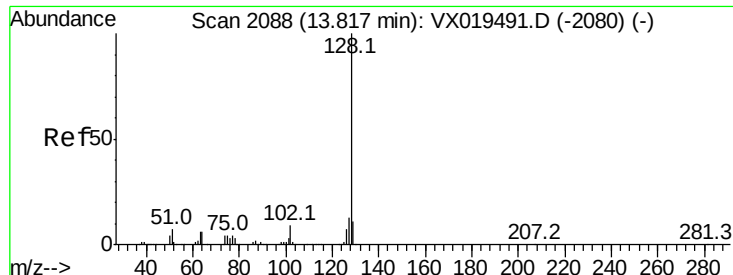
Tot Ion:180 Resp: 886
 Ion Ratio Lower Upper
 180 100
 182 96.6 48.6 145.9
 145 29.2 15.9 47.7



#94
 Hexachlorobutadiene
 Concen: 0.284 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.00 min
 Lab File: VX019544.D
 Acq: 23 Nov 2020 12:44

Tgt Ion:225 Resp: 538
 Ion Ratio Lower Upper
 225 100
 223 50.2 32.5 97.5
 227 59.3 32.8 98.3





#95

Naphthalene

Concen: 2.337 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019544.D

Acq: 23 Nov 2020 12:44

Instrument :

MSVOA_X

ClientSampleId :

TB01-20201118

Tot Ion:128 Resp: 2433

Ion Ratio Lower Upper

128 100

127 11.9 10.3 15.5

129 8.5 8.7 13.1#

