

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
 Data File : VX019854.D
 Acq On : 11 Dec 2020 03:30
 Operator : JC/MD
 Sample : L4983-16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-A-BOTTOM

Quant Time: Dec 11 05:38:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	314300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	533247	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	495223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	213185	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	205698	49.80	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.60%
35) Dibromofluoromethane	5.46	113	164952	47.86	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.72%
50) Toluene-d8	8.70	98	653171	49.64	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.28%
62) 4-Bromofluorobenzene	11.12	95	230161	45.96	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.92%

Target Compounds

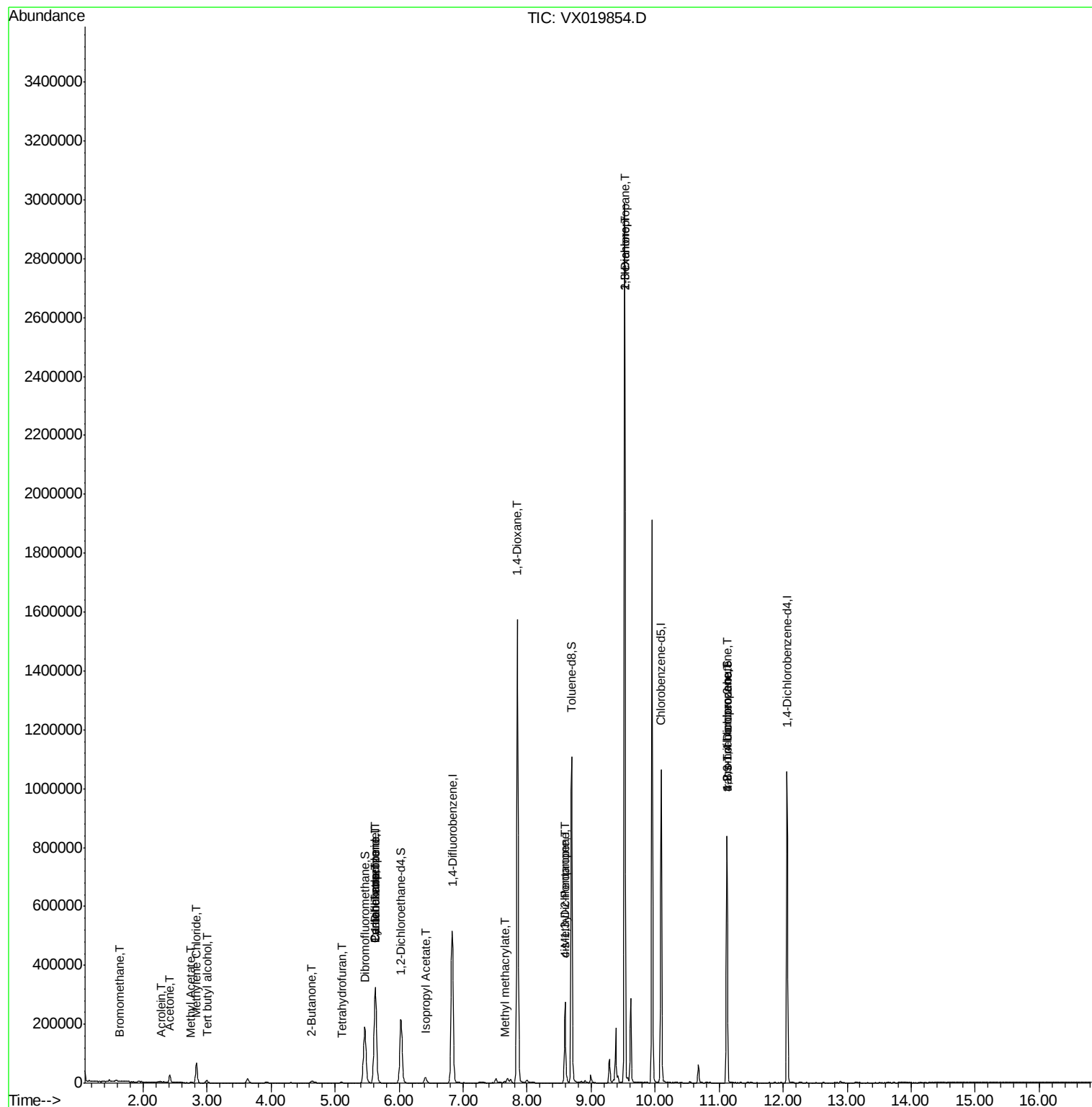
					Qvalue	
5) Bromomethane	1.64	94	478	0.403	ug/l	86
11) Tert butyl alcohol	2.99	59	4976	3.280	ug/l #	84
13) Acrolein	2.28	56	189	0.415	ug/l #	46
16) Acetone	2.42	43	25987	16.737	ug/l	99
18) Methyl Acetate	2.75	43	1803	0.475	ug/l #	87
20) Methylene Chloride	2.83	84	33314	8.210	ug/l	98
25) 2-Butanone	4.63	43	4031	1.690	ug/l	95
29) Tetrahydrofuran	5.10	42	1169	0.760	ug/l #	53
31) Cyclohexane	5.63	56	6197	1.206	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23589	4.895	ug/l #	48
38) Carbon Tetrachloride	5.63	117	31225	6.617	ug/l #	17
43) Isopropyl Acetate	6.41	43	24203	3.060	ug/l	99
48) Methyl methacrylate	7.65	41	7171	1.843	ug/l #	10
49) 1,4-Dioxane	7.84	88	274	2.908	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	84254	17.447	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	44970	7.567	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	27001	4.262	ug/l #	43
59) 2-Hexanone	9.52	43	322137	86.058	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	111419	23.303	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	111419	67.364	ug/l #	12

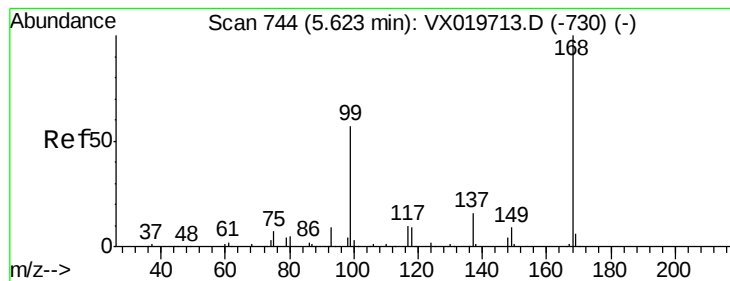
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Instrument :

MSVOA_X

ClientSampleId :

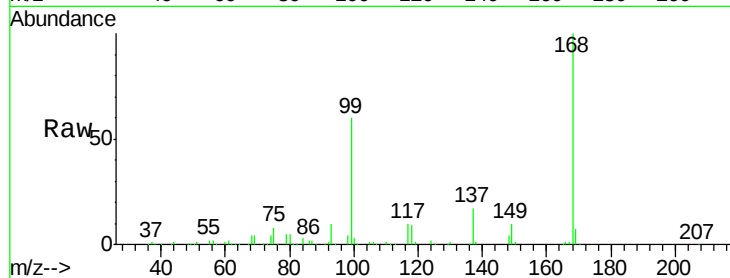
TR2-A-BOTTOM

Tgt Ion:168 Resp: 314300

Ion Ratio Lower Upper

168 100

99 60.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

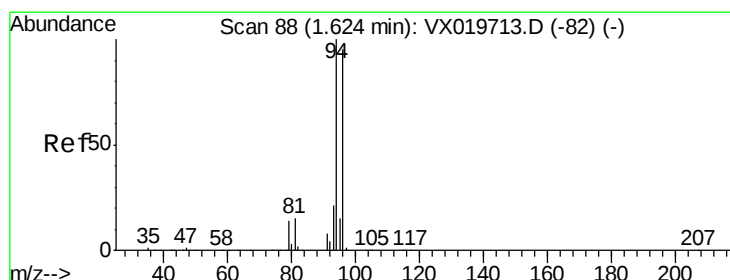
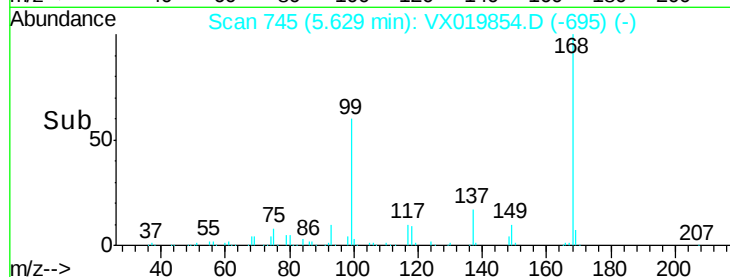
40000

20000

0

Time-->

5.50 5.60 5.70



#5

Bromomethane

Concen: 0.403 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019854.D

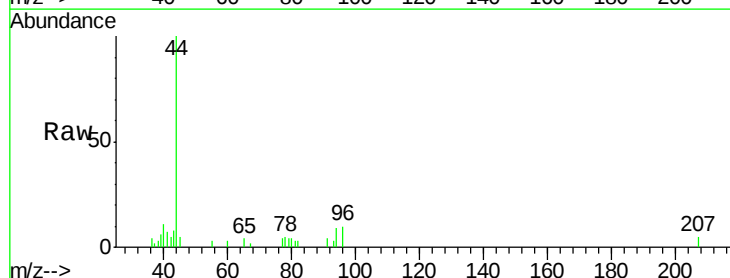
Acq: 11 Dec 2020 03:30

Tgt Ion: 94 Resp: 478

Ion Ratio Lower Upper

94 100

96 108.9 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

150

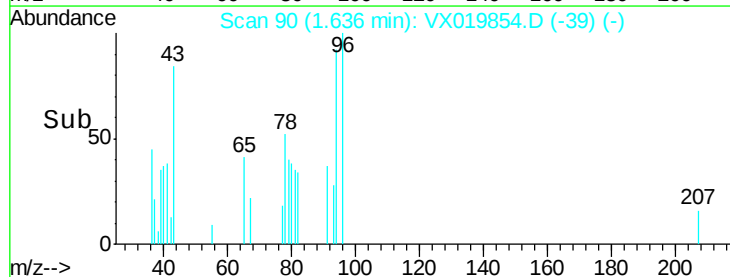
100

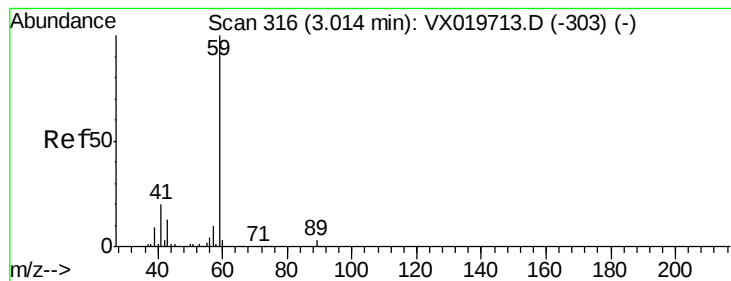
50

0

Time-->

1.60 1.65 1.70





#11

Tert butyl alcohol

Concen: 3.280 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Instrument :

MSVOA_X

ClientSampleId :

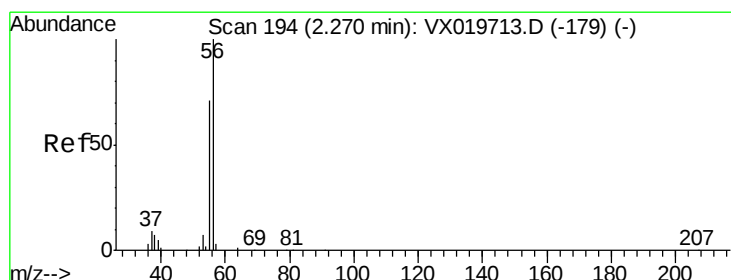
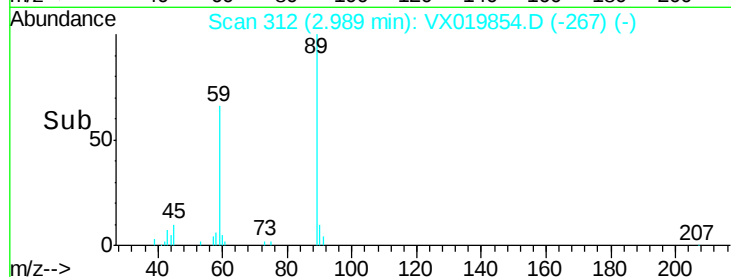
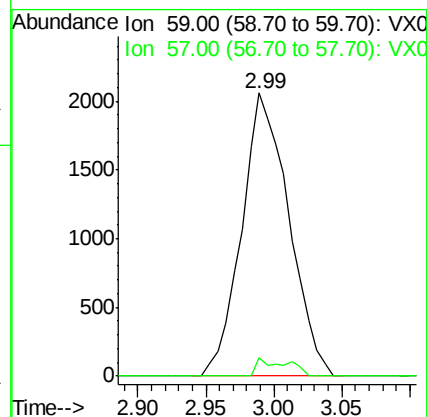
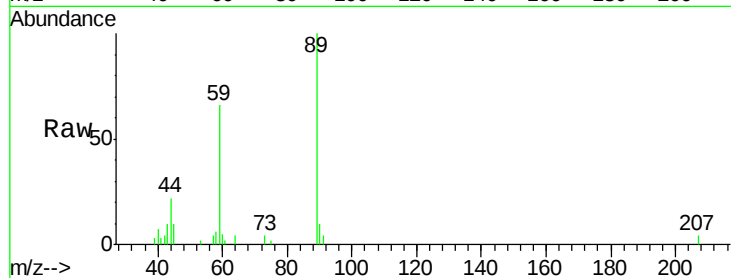
TR2-A-BOTTOM

Tgt Ion: 59 Resp: 4976

Ion Ratio Lower Upper

59 100

57 4.1 7.8 11.8#



#13

Acrolein

Concen: 0.415 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019854.D

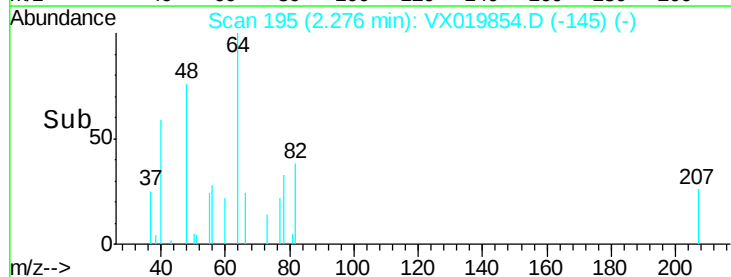
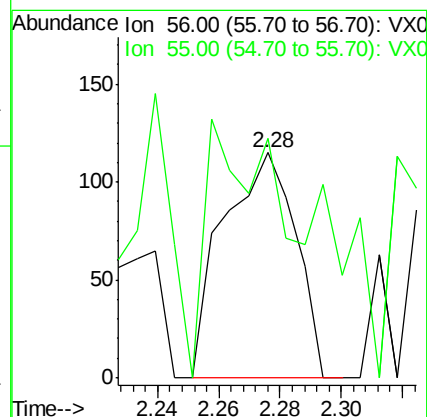
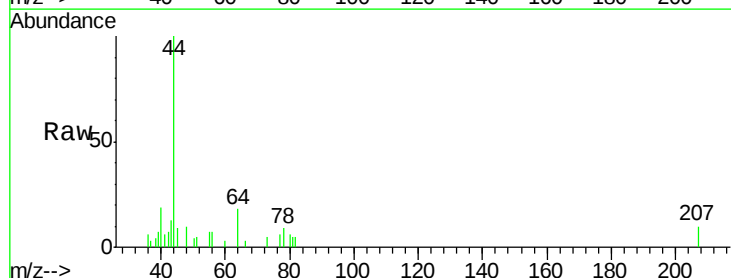
Acq: 11 Dec 2020 03:30

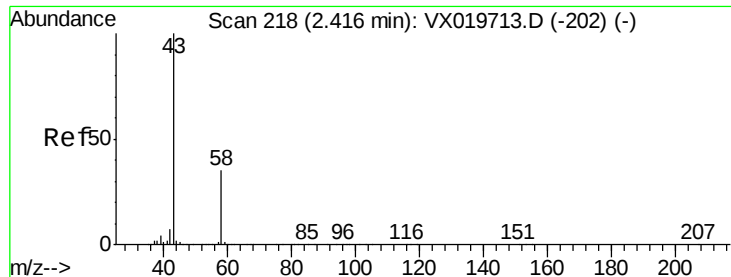
Tgt Ion: 56 Resp: 189

Ion Ratio Lower Upper

56 100

55 114.8 56.4 84.6#





#16

Acetone

Concen: 16.737 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Instrument :

MSVOA_X

ClientSampleId :

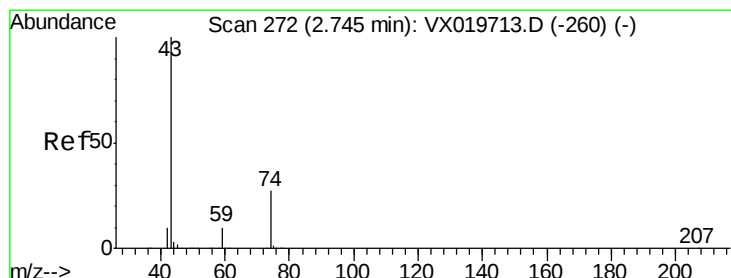
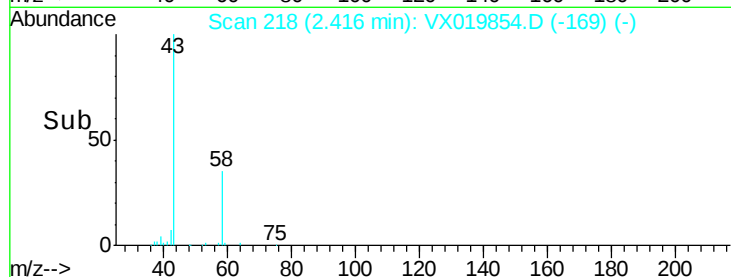
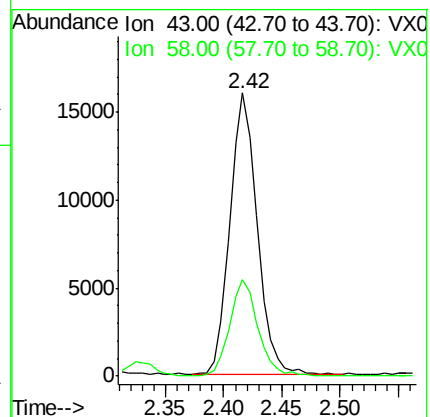
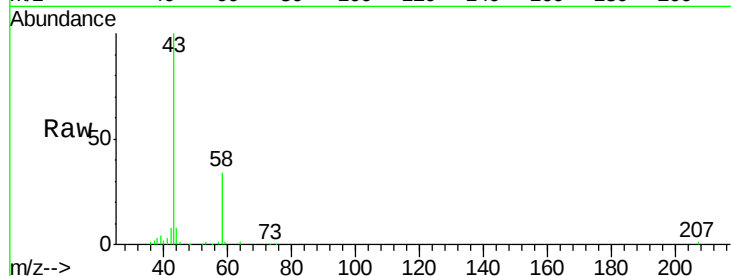
TR2-A-BOTTOM

Tgt Ion: 43 Resp: 25987

Ion Ratio Lower Upper

43 100

58 34.5 27.8 41.8



#18

Methyl Acetate

Concen: 0.475 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019854.D

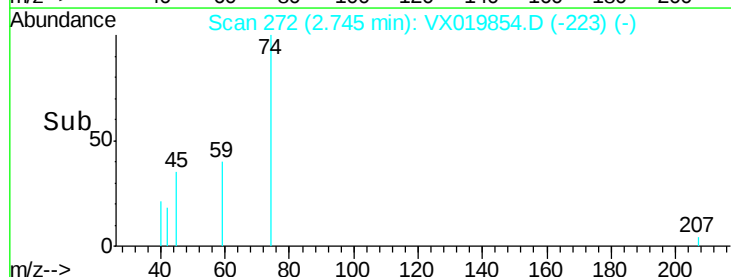
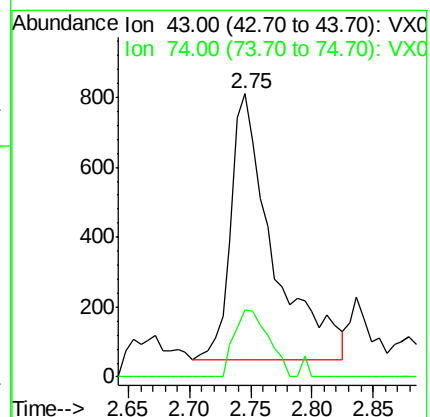
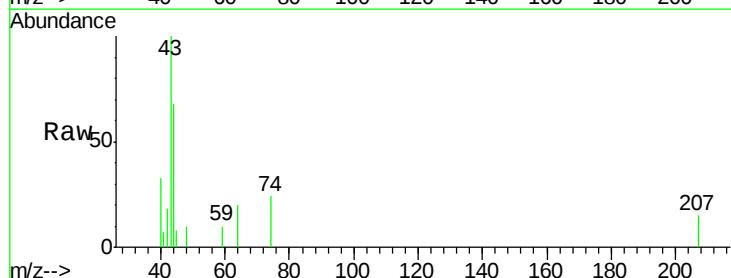
Acq: 11 Dec 2020 03:30

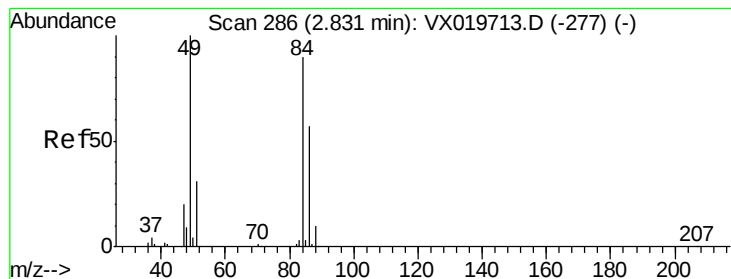
Tgt Ion: 43 Resp: 1803

Ion Ratio Lower Upper

43 100

74 20.7 21.9 32.9#





#20

Methylene Chloride

Concen: 8.210 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Instrument :

MSVOA_X

ClientSampleId :

TR2-A-BOTTOM

Tgt Ion: 84 Resp: 33314

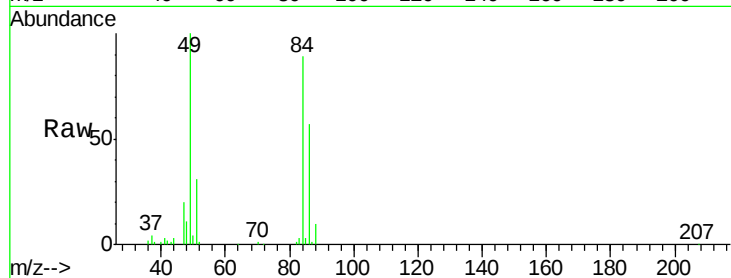
Ion Ratio Lower Upper

84 100

49 112.4 88.6 132.8

51 34.4 27.0 40.6

86 64.5 50.3 75.5

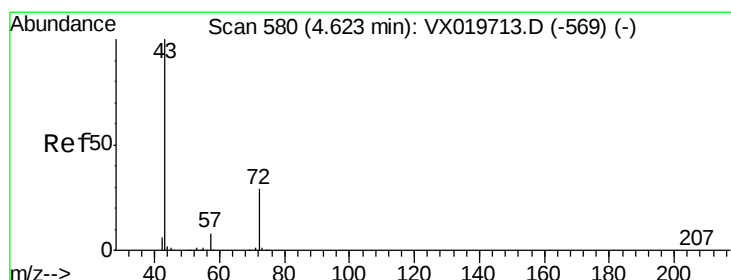
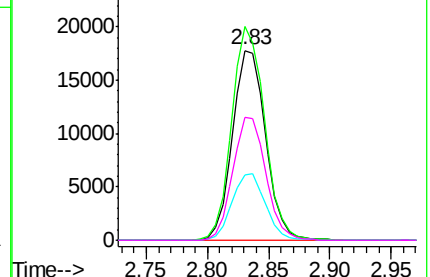
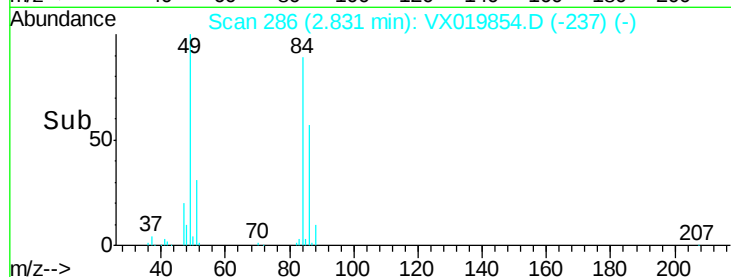


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.690 ug/l

RT: 4.63 min Scan# 581

Delta R.T. 0.01 min

Lab File: VX019854.D

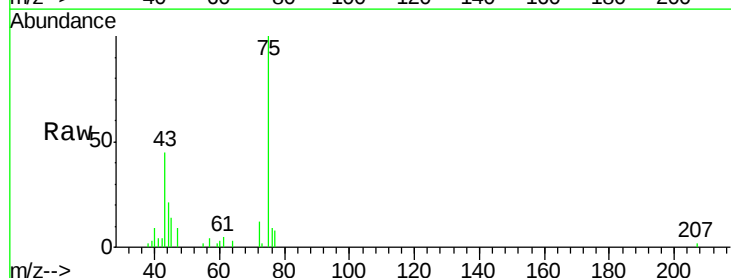
Acq: 11 Dec 2020 03:30

Tgt Ion: 43 Resp: 4031

Ion Ratio Lower Upper

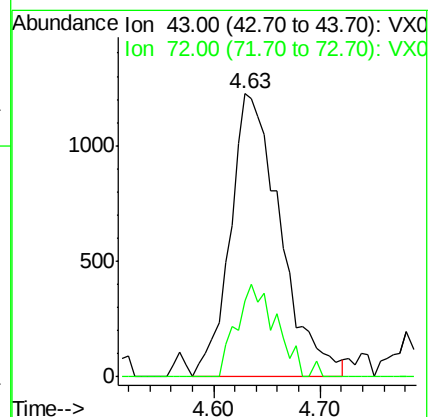
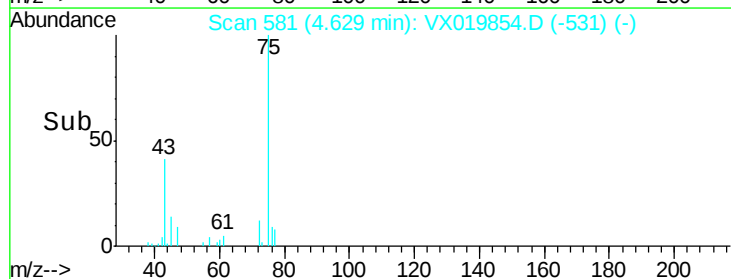
43 100

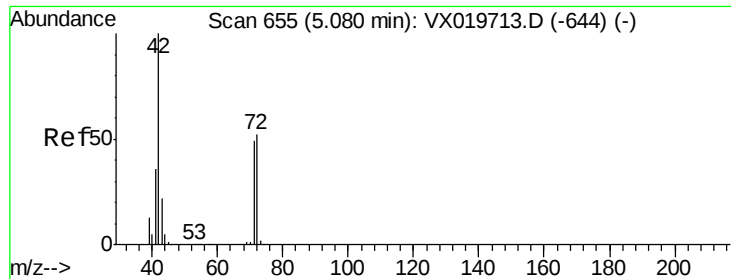
72 26.7 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

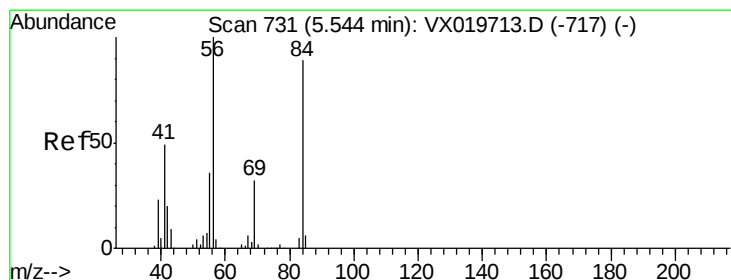
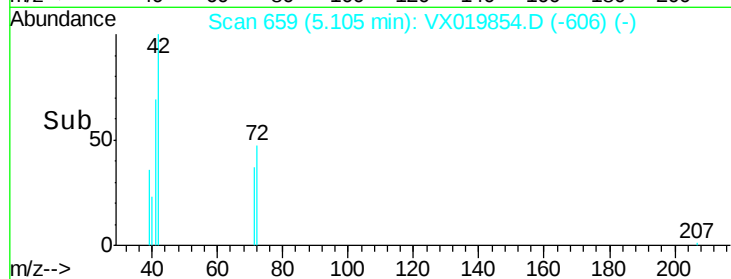
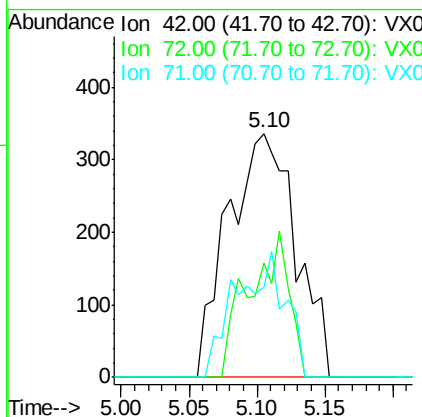
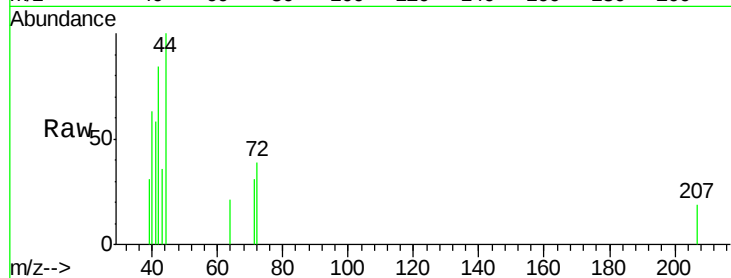




#29
Tetrahydrofuran
Concen: 0.760 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019854.D
Acq: 11 Dec 2020 03:30

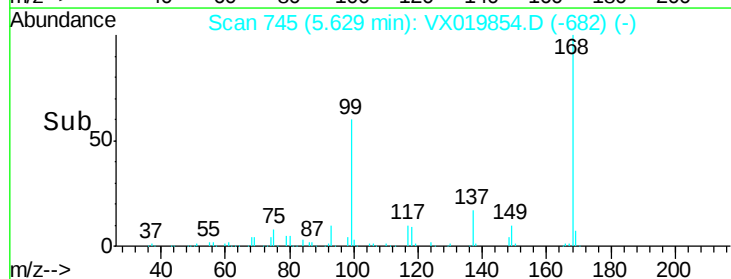
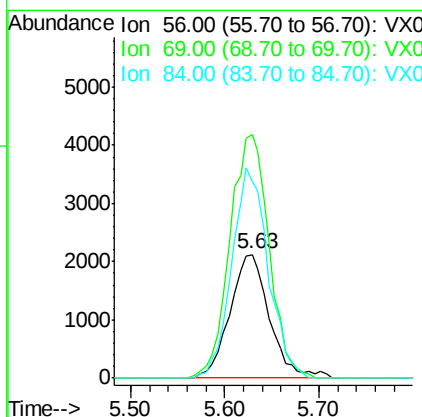
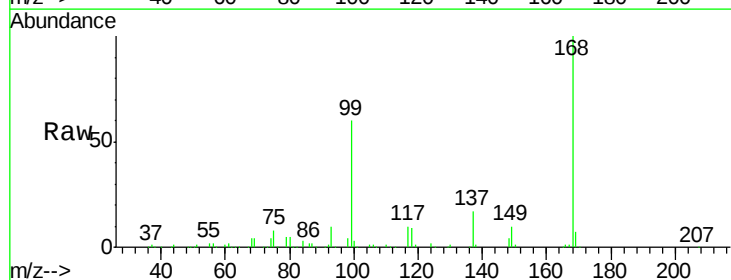
Instrument :
MSVOA_X
ClientSampleId :
TR2-A-BOTTOM

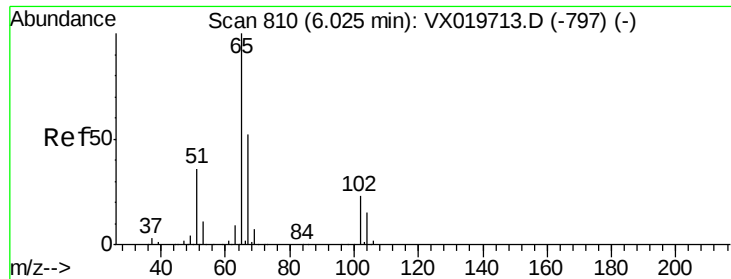
Tgt Ion: 42 Resp: 1169
Ion Ratio Lower Upper
42 100
72 35.3 41.7 62.5#
71 0.0 38.4 57.6#



#31
Cyclohexane
Concen: 1.206 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019854.D
Acq: 11 Dec 2020 03:30

Tgt Ion: 56 Resp: 6197
Ion Ratio Lower Upper
56 100
69 196.8 25.3 37.9#
84 159.1 71.4 107.0#

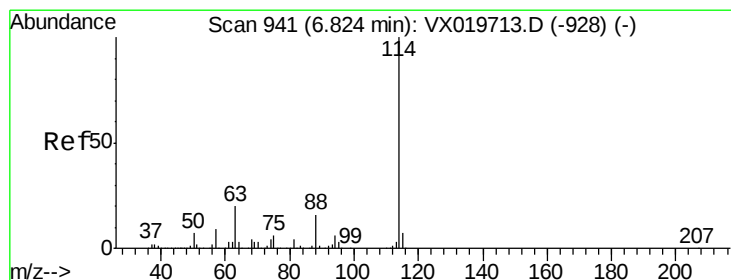
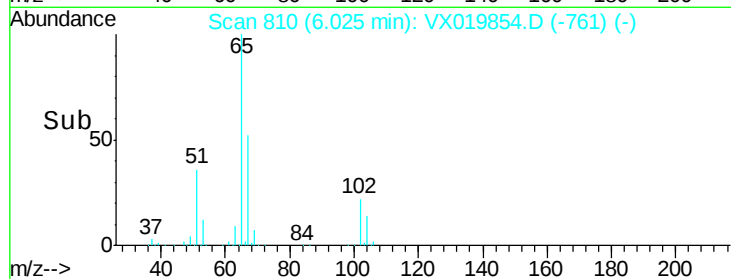
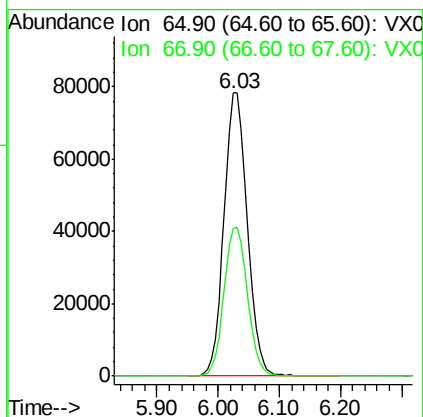
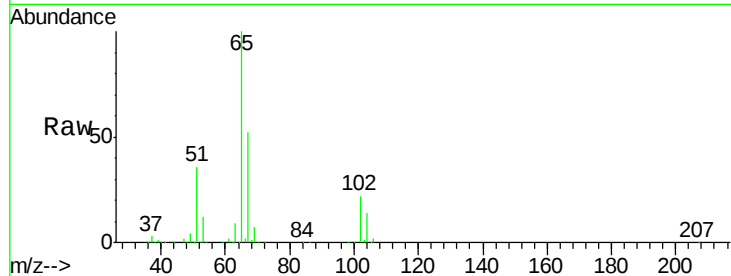




#33
 1,2-Dichloroethane-d4
 Concen: 49.796 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019854.D
 Acq: 11 Dec 2020 03:30

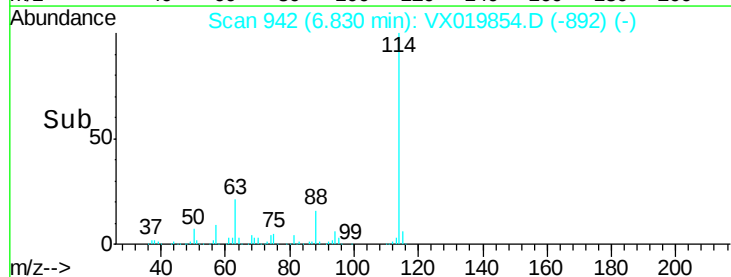
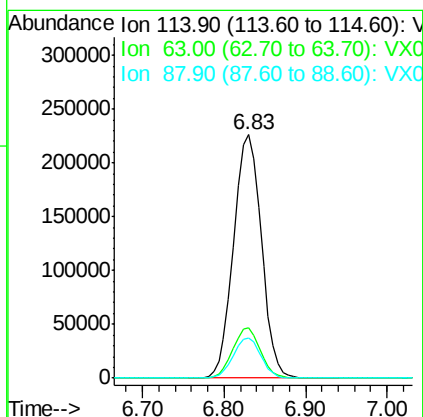
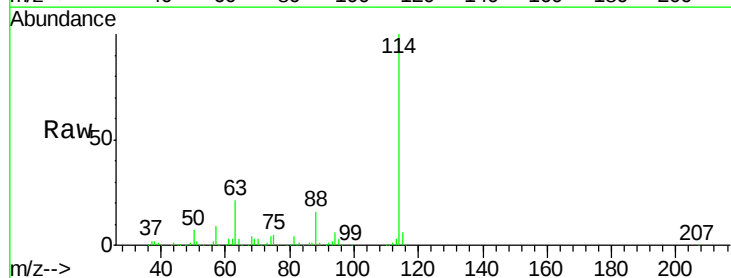
Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-A-BOTTOM

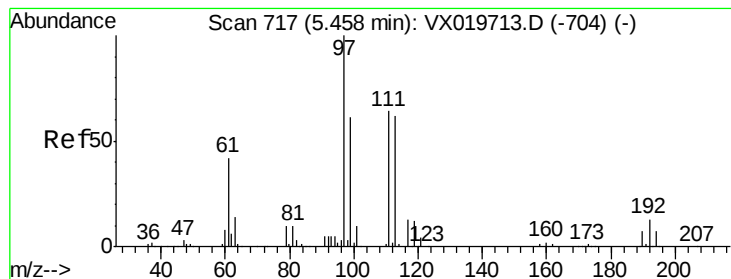
Tgt Ion: 65 Resp: 205698
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019854.D
 Acq: 11 Dec 2020 03:30

Tgt Ion: 114 Resp: 533247
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.8
 88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.864 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Instrument :

MSVOA_X

ClientSampleId :

TR2-A-BOTTOM

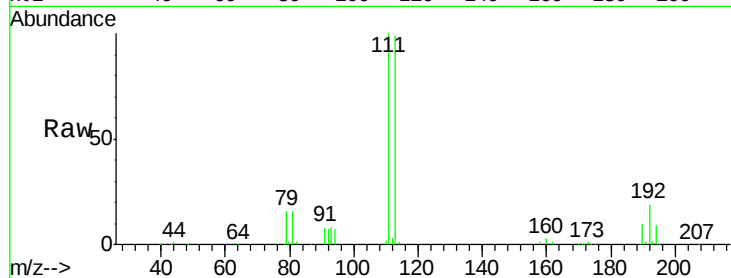
Tgt Ion:113 Resp: 164952

Ion Ratio Lower Upper

113 100

111 103.2 81.9 122.9

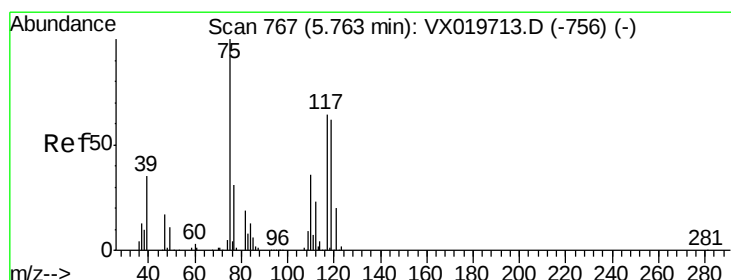
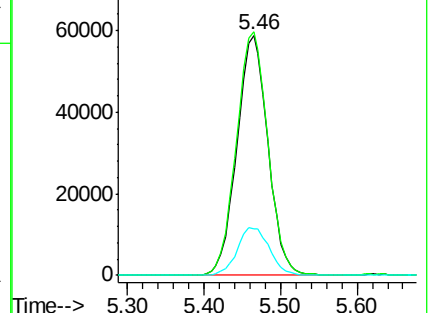
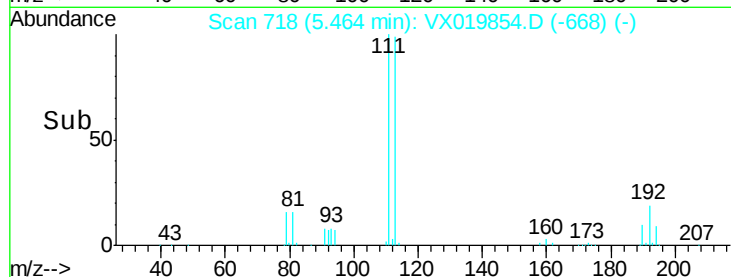
192 20.7 16.7 25.1



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: 4.895 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

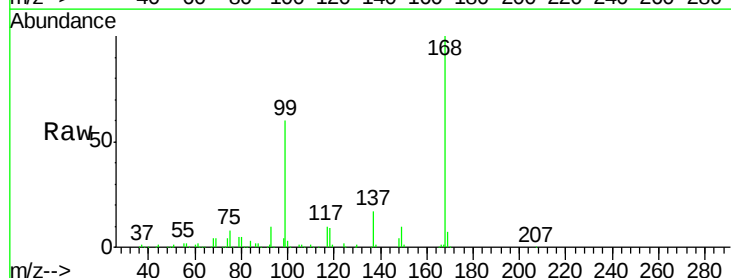
Tgt Ion: 75 Resp: 23589

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.4#

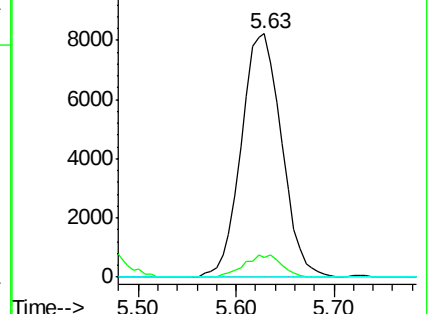
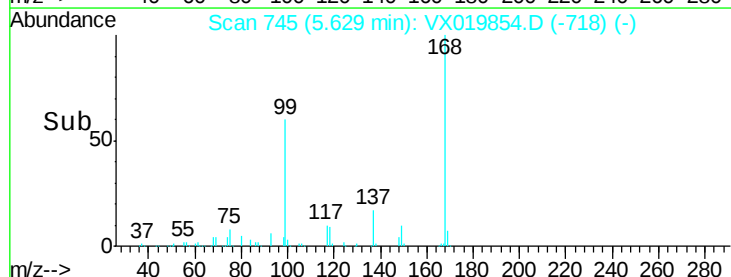
77 0.0 25.3 37.9#

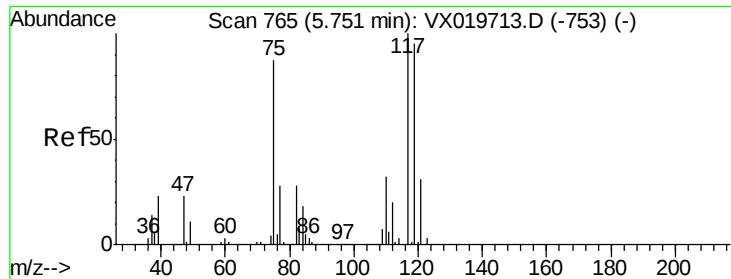


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

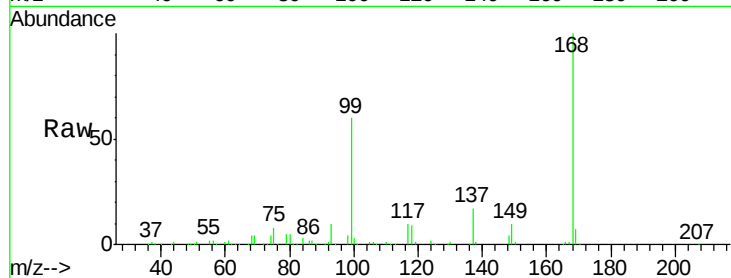




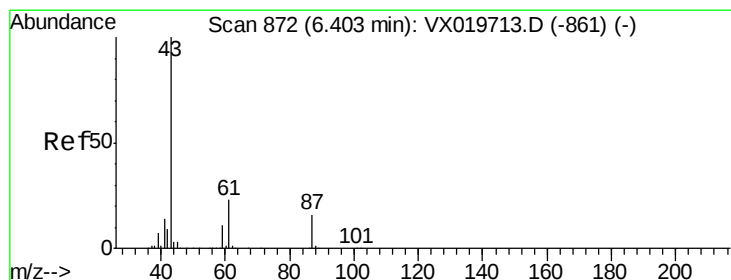
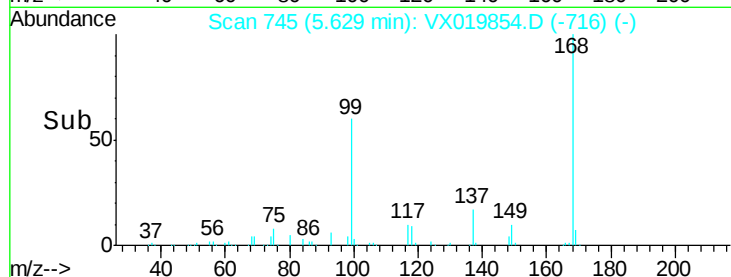
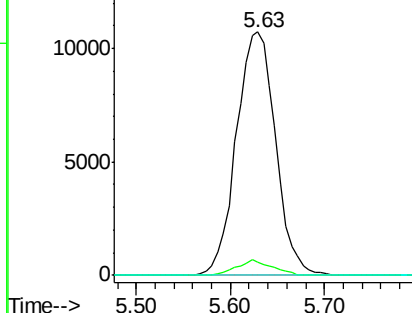
#38
Carbon Tetrachloride
Concen: 6.617 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX019854.D
Acq: 11 Dec 2020 03:30

Instrument :
MSVOA_X
ClientSampleId :
TR2-A-BOTTOM

Tgt Ion: 117 Resp: 31225
Ion Ratio Lower Upper
117 100
119 5.4 76.2 114.2#
121 0.0 24.8 37.2#

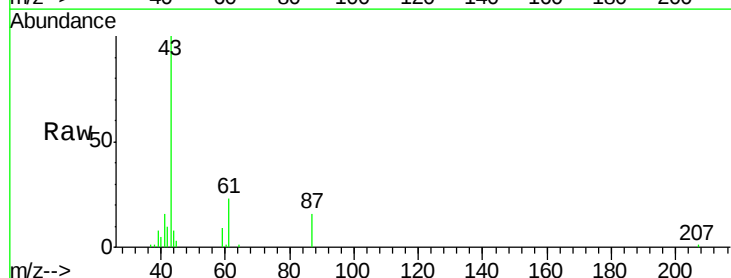


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

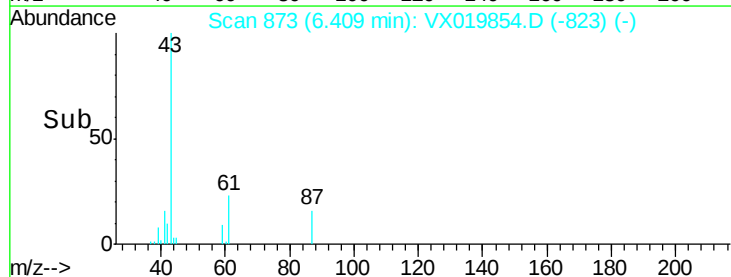
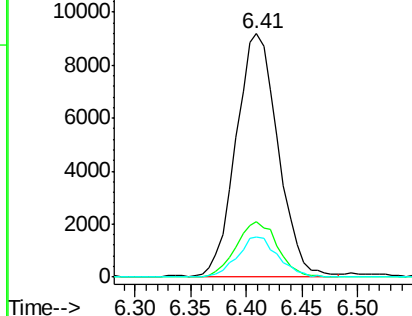


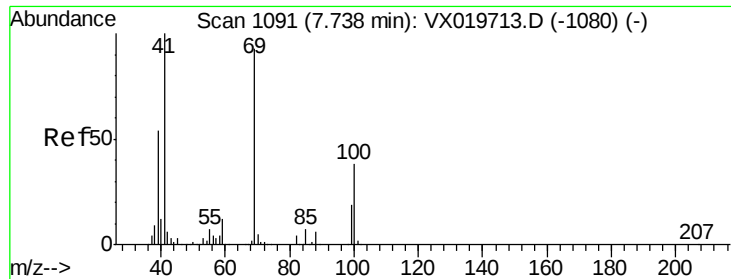
#43
Isopropyl Acetate
Concen: 3.060 ug/l
RT: 6.41 min Scan# 873
Delta R.T. 0.01 min
Lab File: VX019854.D
Acq: 11 Dec 2020 03:30

Tgt Ion: 43 Resp: 24203
Ion Ratio Lower Upper
43 100
61 22.3 18.2 27.4
87 15.7 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

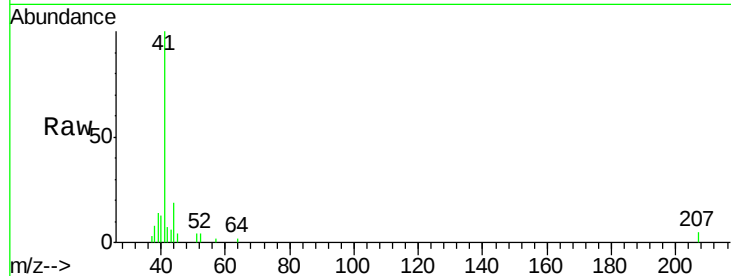




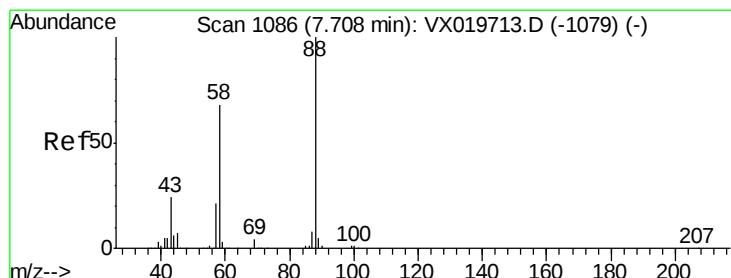
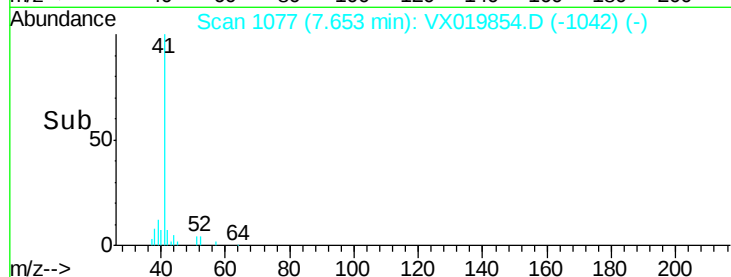
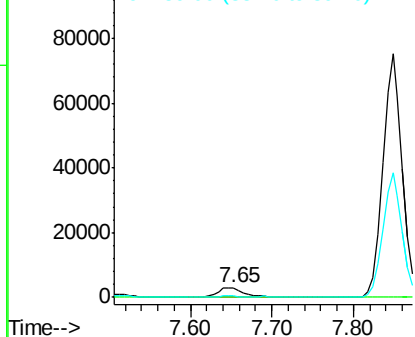
#48
Methyl methacrylate
Concen: 1.843 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX019854.D
Acq: 11 Dec 2020 03:30

Instrument :
MSVOA_X
ClientSampleId :
TR2-A-BOTTOM

Tgt Ion: 41 Resp: 7171
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#

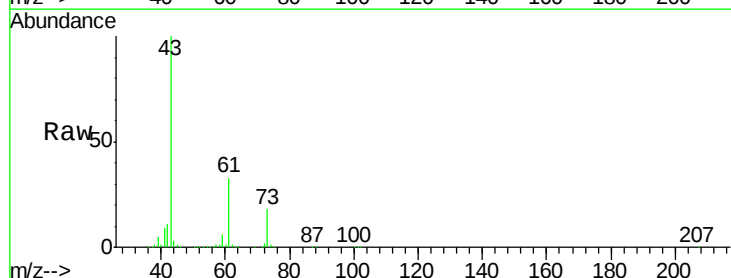


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

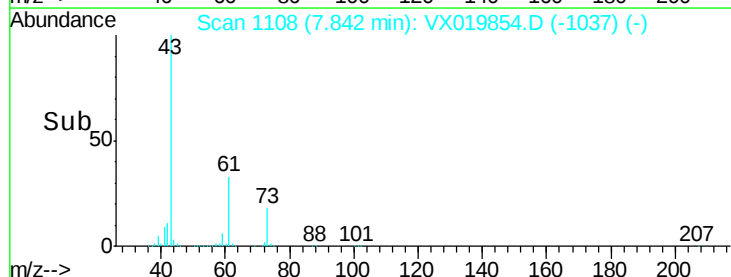
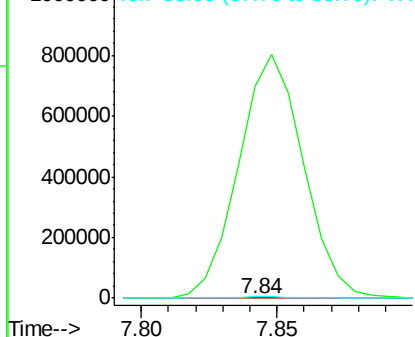


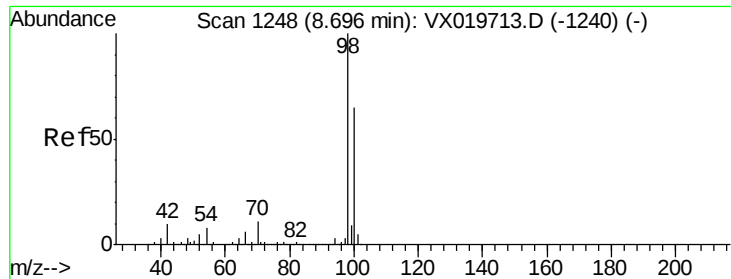
#49
1,4-Dioxane
Concen: 2.908 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.13 min
Lab File: VX019854.D
Acq: 11 Dec 2020 03:30

Tgt Ion: 88 Resp: 274
Ion Ratio Lower Upper
88 100
43 486004.7 23.2 34.8#
58 2486.5 55.0 82.4#



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: 49.644 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Instrument :

MSVOA_X

ClientSampleId :

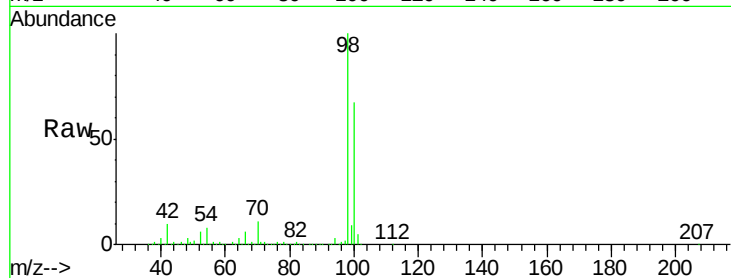
TR2-A-BOTTOM

Tgt Ion: 98 Resp: 653171

Ion Ratio Lower Upper

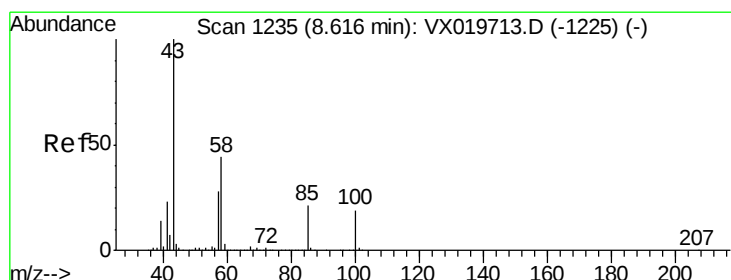
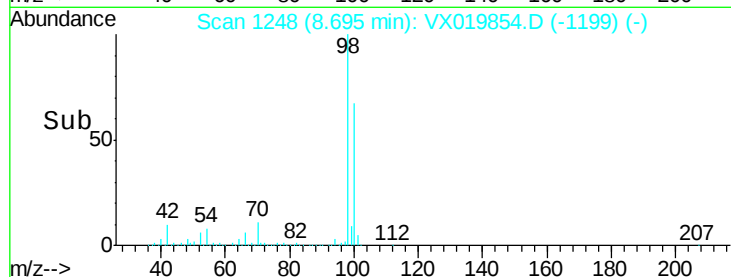
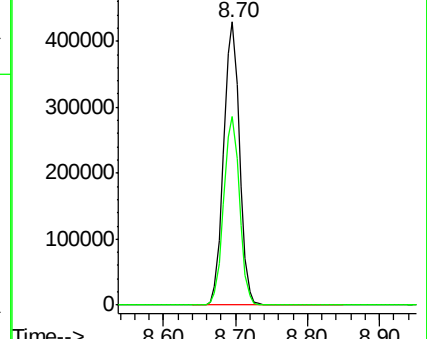
98 100

100 66.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 17.447 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019854.D

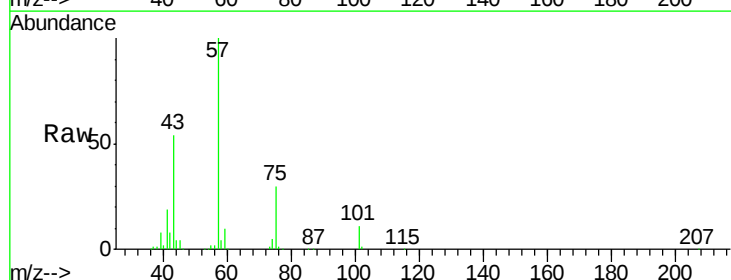
Acq: 11 Dec 2020 03:30

Tgt Ion: 43 Resp: 84254

Ion Ratio Lower Upper

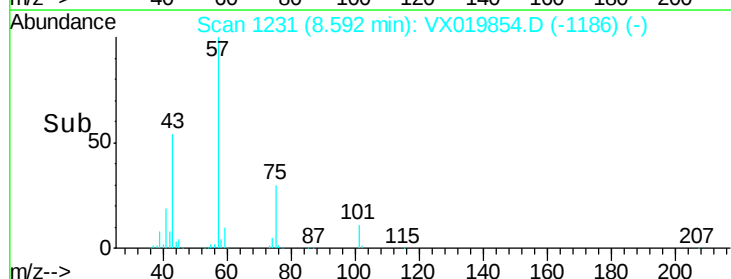
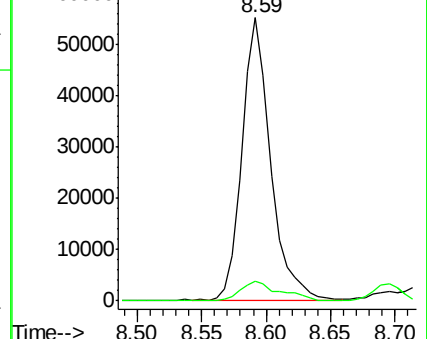
43 100

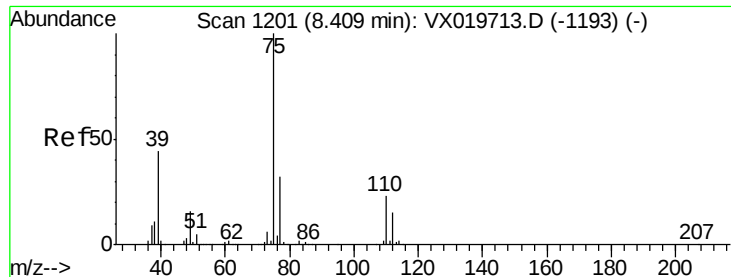
58 9.7 35.4 53.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



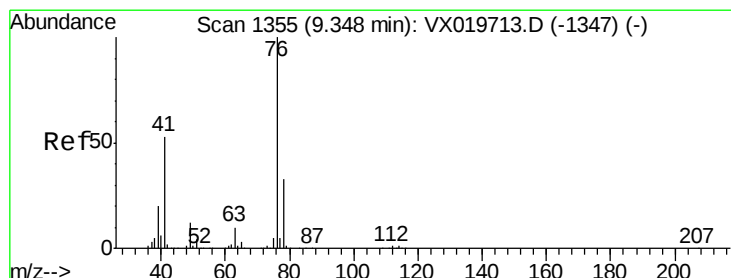
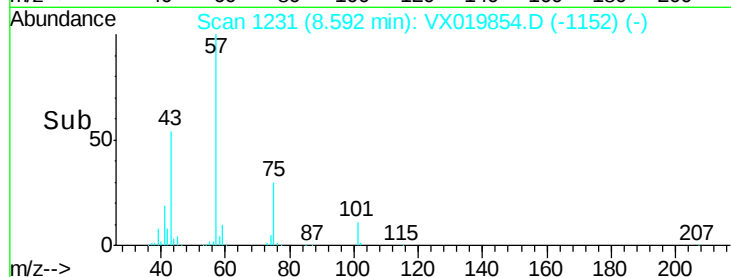
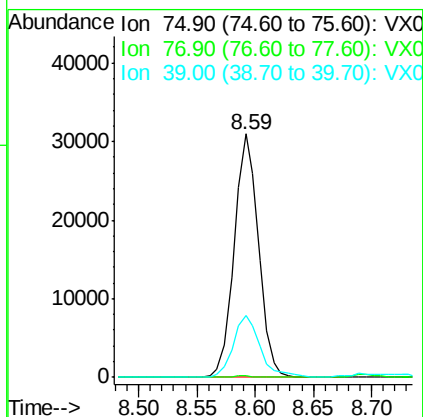
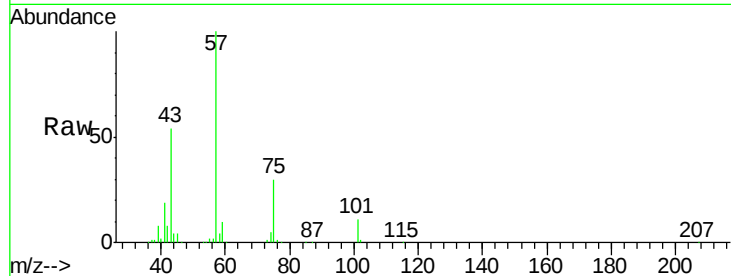


#54

cis-1,3-Dichloropropene
 Concen: 7.567 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019854.D
 Acq: 11 Dec 2020 03:30

Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-A-BOTTOM

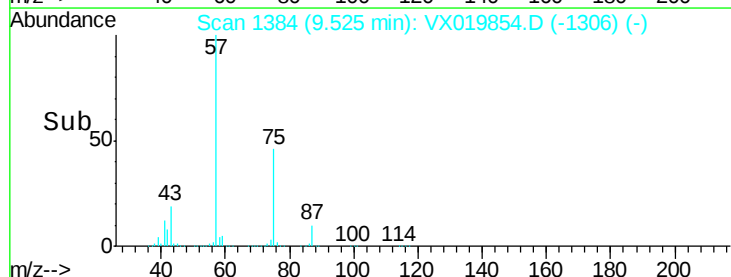
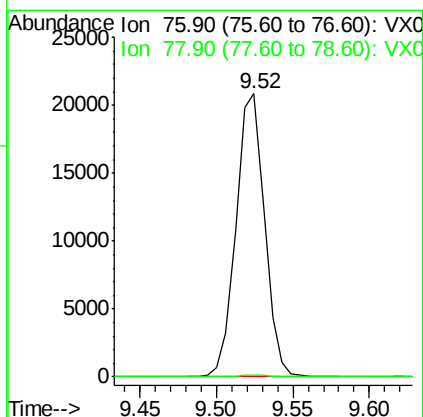
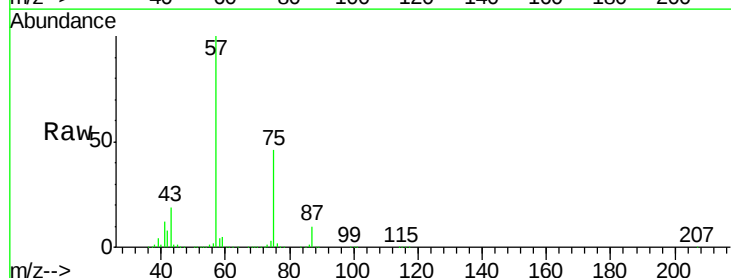
Tgt Ion: 75 Resp: 44970
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 25.6 35.1 52.7#

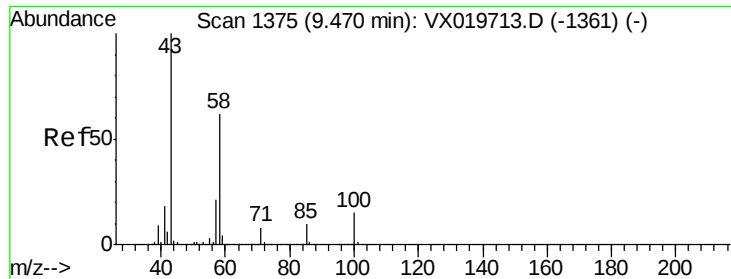


#57

1,3-Dichloropropane
 Concen: 4.262 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019854.D
 Acq: 11 Dec 2020 03:30

Tgt Ion: 76 Resp: 27001
 Ion Ratio Lower Upper
 76 100
 78 0.5 26.2 39.2#

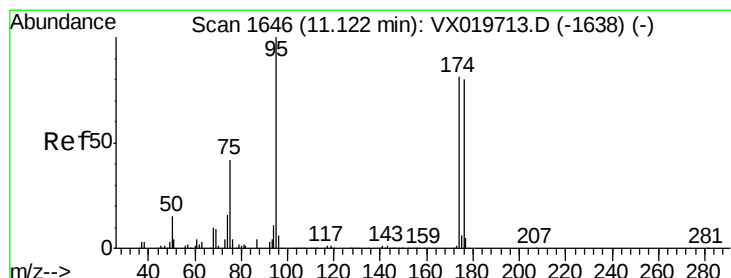
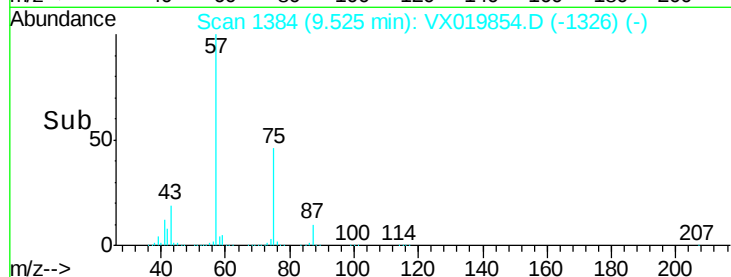
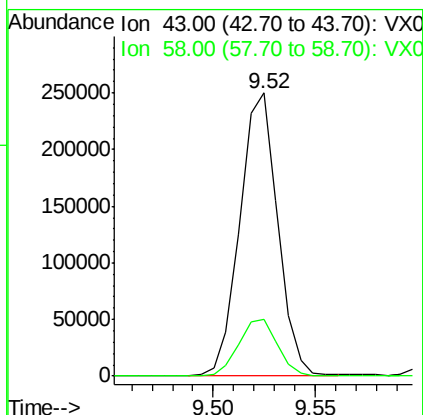
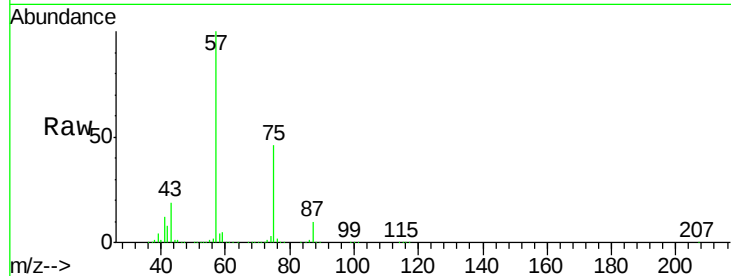




#59
2-Hexanone
Concen: 86.058 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019854.D
Acq: 11 Dec 2020 03:30

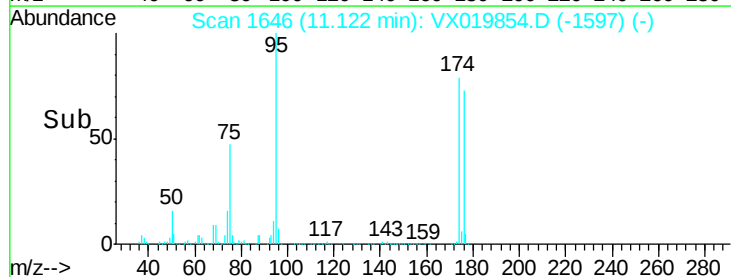
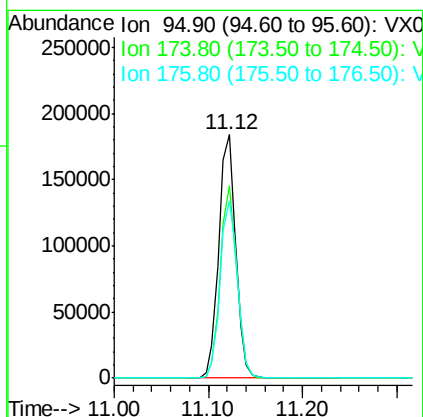
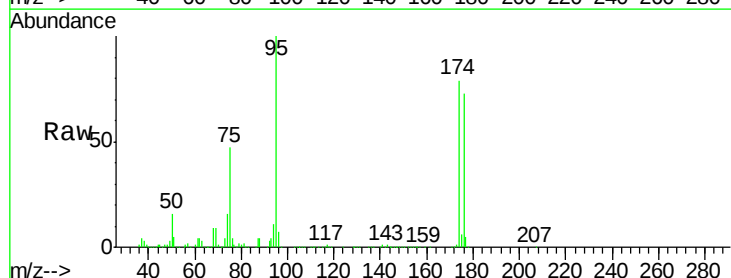
Instrument :
MSVOA_X
ClientSampleId :
TR2-A-BOTTOM

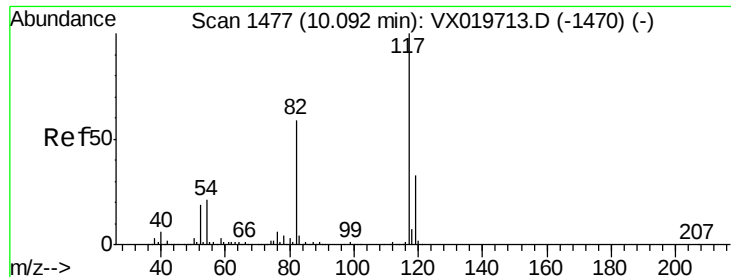
Tgt Ion: 43 Resp: 322137
Ion Ratio Lower Upper
43 100
58 20.7 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 45.961 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019854.D
Acq: 11 Dec 2020 03:30

Tgt Ion: 95 Resp: 230161
Ion Ratio Lower Upper
95 100
174 77.1 0.0 154.6
176 74.4 0.0 155.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Instrument :

MSVOA_X

ClientSampleId :

TR2-A-BOTTOM

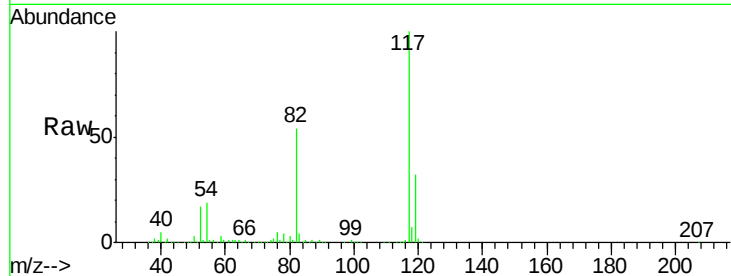
Tgt Ion:117 Resp: 495223

Ion Ratio Lower Upper

117 100

82 53.9 47.4 71.2

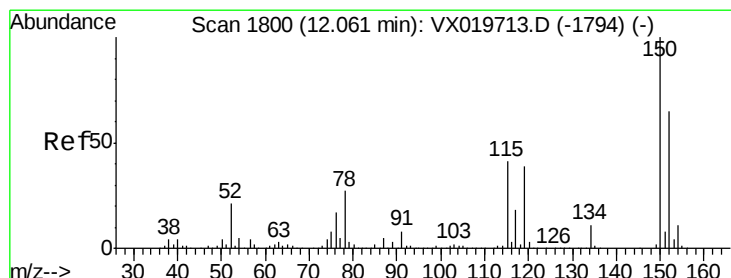
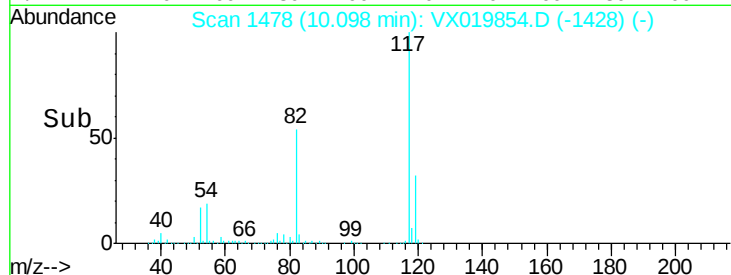
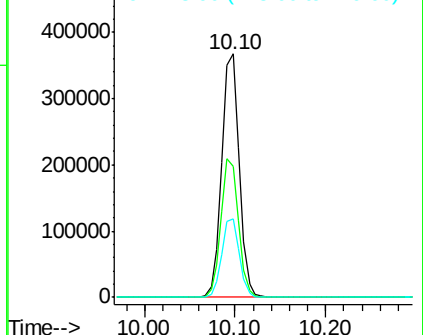
119 32.4 26.6 39.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

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: VX019854.D

Acq: 11 Dec 2020 03:30

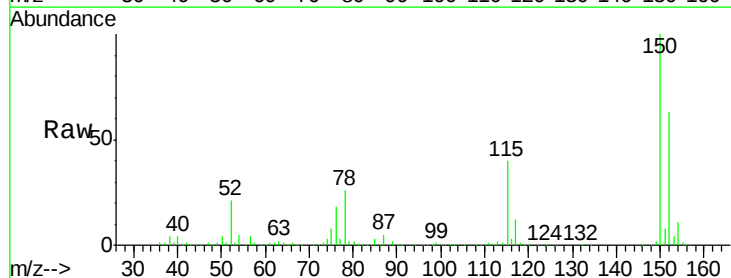
Tgt Ion:152 Resp: 213185

Ion Ratio Lower Upper

152 100

115 61.4 41.1 123.3

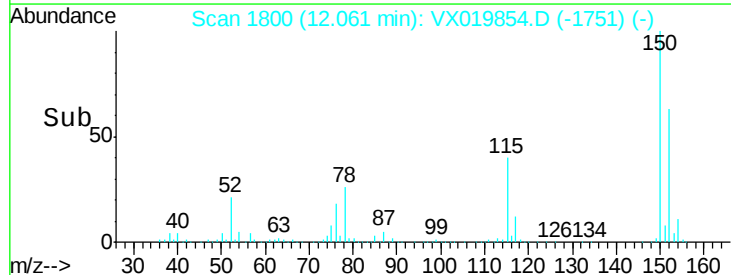
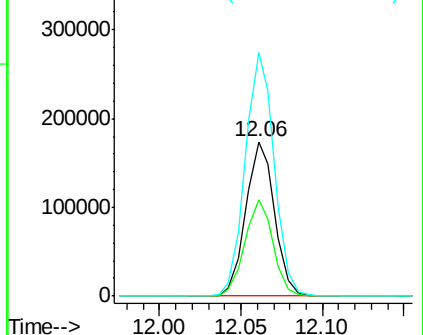
150 158.7 0.0 349.0

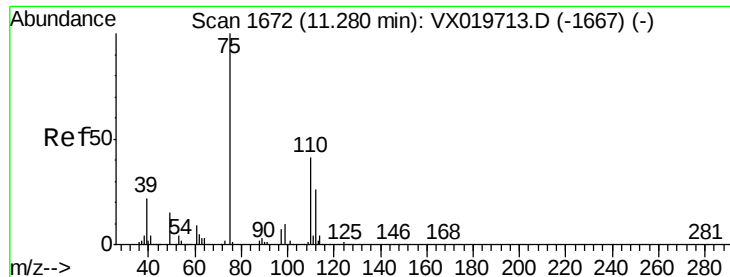


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.303 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Instrument :

MSVOA_X

ClientSampleId :

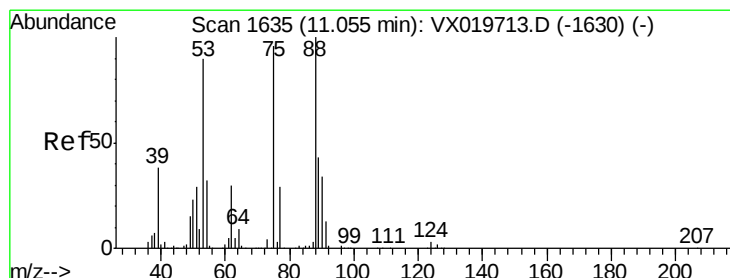
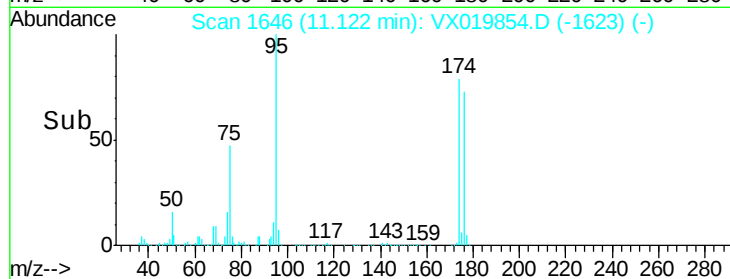
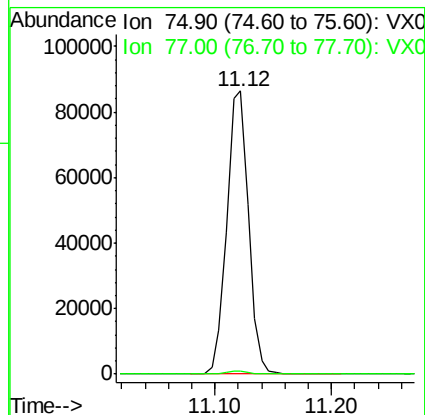
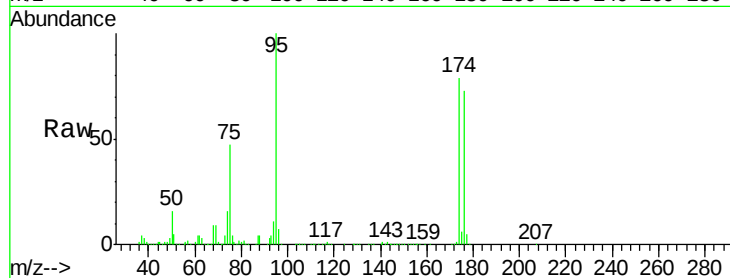
TR2-A-BOTTOM

Tgt Ion: 75 Resp: 111419

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.364 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019854.D

Acq: 11 Dec 2020 03:30

Tgt Ion: 75 Resp: 111419

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

