

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020049.D
 Acq On : 16 Dec 2020 06:30
 Operator : JC/MD
 Sample : L5088-15
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-A-TOP

Quant Time: Dec 16 06:59:34 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	303834	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	514639	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	485397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	191607	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	197925	49.56	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.12%	
35) Dibromofluoromethane		5.46	113	161937	48.69	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.38%	
50) Toluene-d8		8.70	98	644297	50.74	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	101.48%	
62) 4-Bromofluorobenzene		11.12	95	216544	44.81	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.62%	

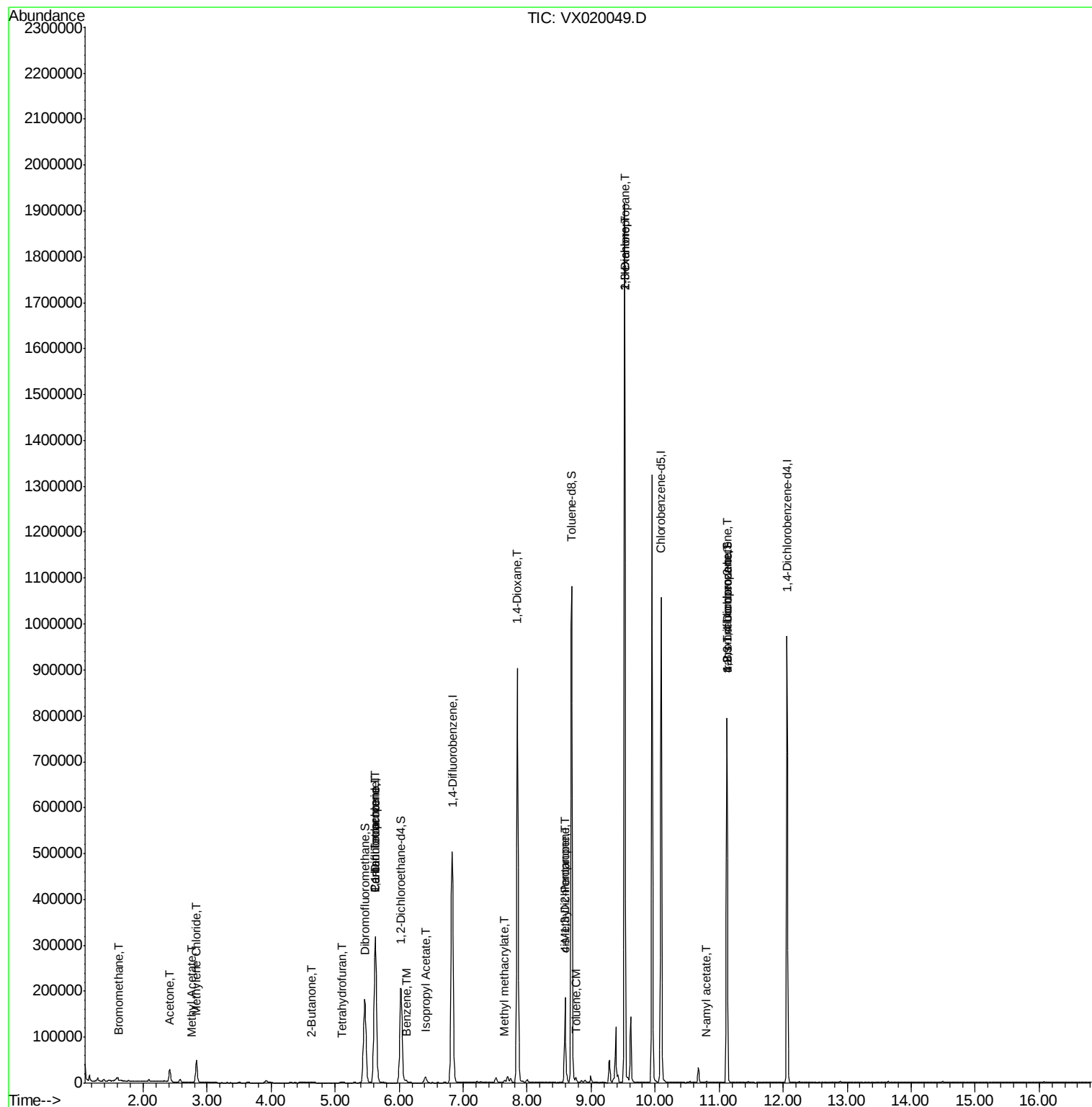
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	489	0.427	ug/l #	57
11) Tert butyl alcohol	3.01	59	1014	Below Cal	#	84
16) Acetone	2.42	43	26468	17.634	ug/l	99
18) Methyl Acetate	2.75	43	1924	0.524	ug/l	90
20) Methylene Chloride	2.83	84	22823	5.392	ug/l	99
25) 2-Butanone	4.64	43	3599	1.560	ug/l	98
29) Tetrahydrofuran	5.10	42	889	0.598	ug/l #	76
36) 1,1-Dichloropropene	5.62	75	23725	5.102	ug/l #	49
38) Carbon Tetrachloride	5.62	117	30202	6.632	ug/l #	16
40) Benzene	6.12	78	5483	0.386	ug/l	97
43) Isopropyl Acetate	6.41	43	16428	2.152	ug/l	98
48) Methyl methacrylate	7.65	41	5719	1.523	ug/l #	10
49) 1,4-Dioxane	7.85	88	108	1.187	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	61436	13.182	ug/l #	47
52) Toluene	8.76	92	2629	0.296	ug/l	86
54) cis-1,3-Dichloropropene	8.59	75	31282	5.454	ug/l #	63
57) 1,3-Dichloropropane	9.52	76	16892	2.763	ug/l #	43
59) 2-Hexanone	9.52	43	201604	55.805	ug/l #	47
74) N-amyl acetate	10.80	43	1068	0.204	ug/l #	43
76) 1,2,3-Trichloropropane	11.12	75	105733	24.604	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	105733	71.125	ug/l #	12

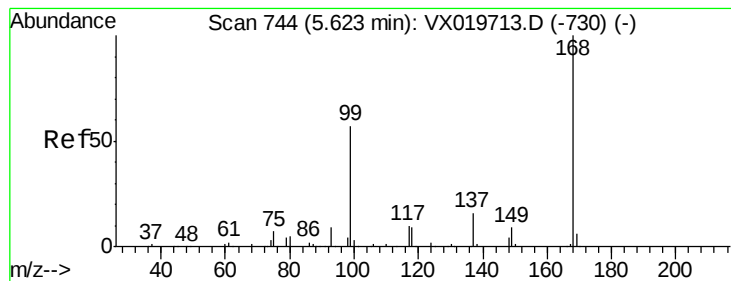
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
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ClientSampleId :
TR3-A-TOP

Quant Time: Dec 16 06:59:34 2020
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: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampleId :

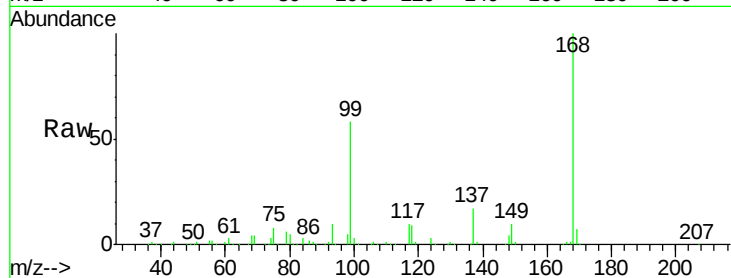
TR3-A-TOP

Tgt Ion:168 Resp: 303834

Ion Ratio Lower Upper

168 100

99 58.1 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

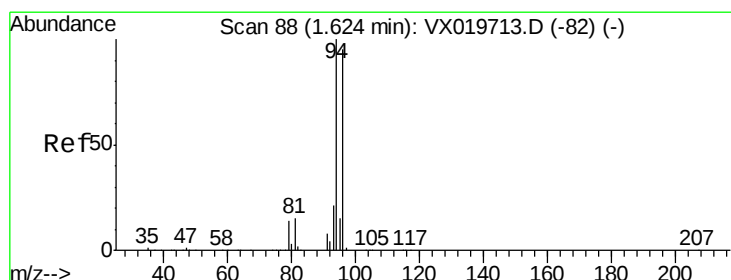
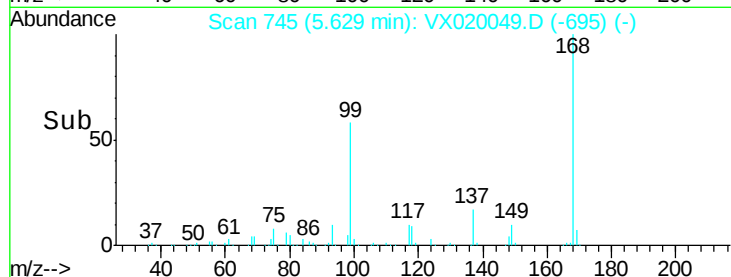
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.427 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX020049.D

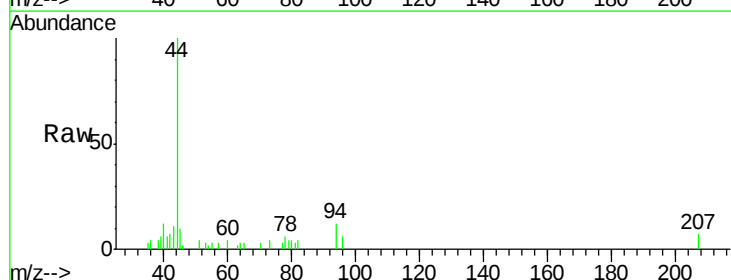
Acq: 16 Dec 2020 06:30

Tgt Ion: 94 Resp: 489

Ion Ratio Lower Upper

94 100

96 53.2 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

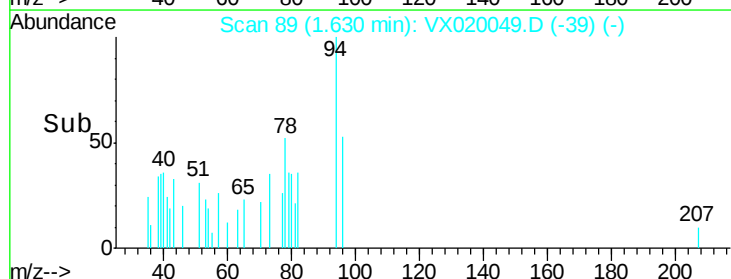
300

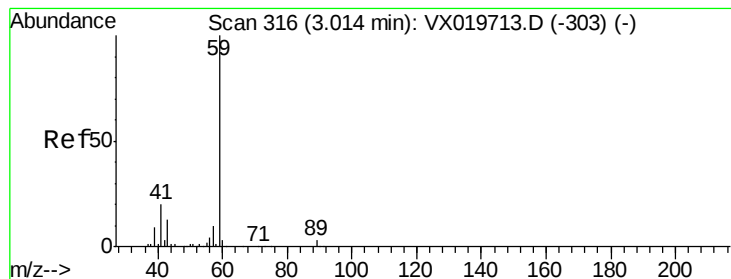
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampleId :

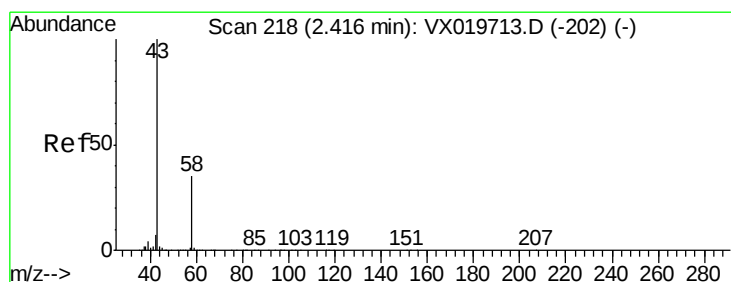
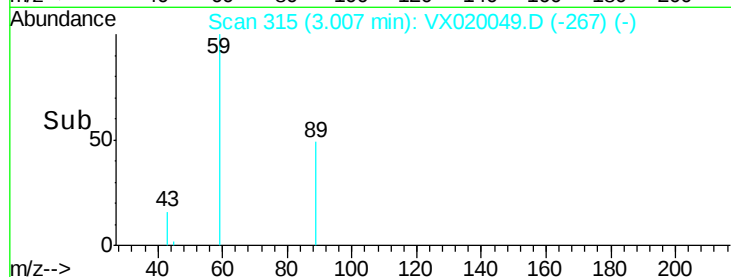
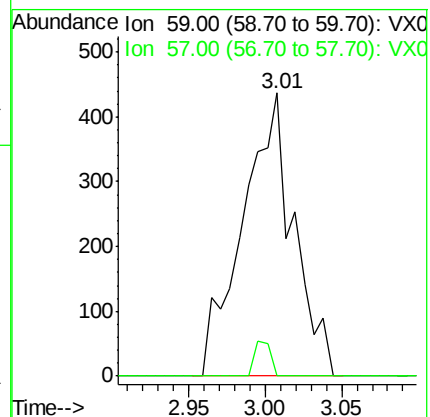
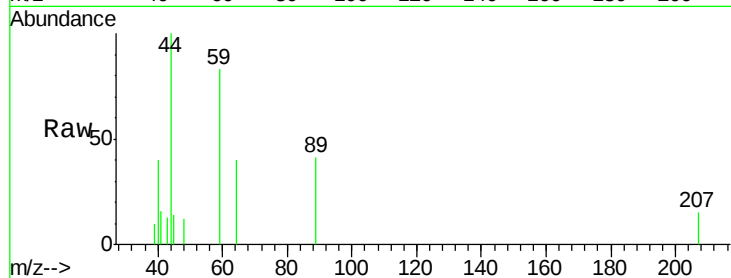
TR3-A-TOP

Tgt Ion: 59 Resp: 1014

Ion Ratio Lower Upper

59 100

57 3.8 7.8 11.8#



#16

Acetone

Concen: 17.634 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX020049.D

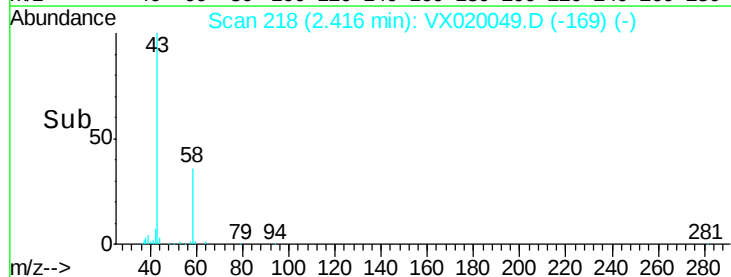
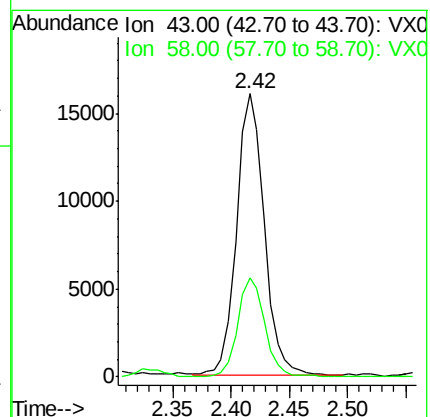
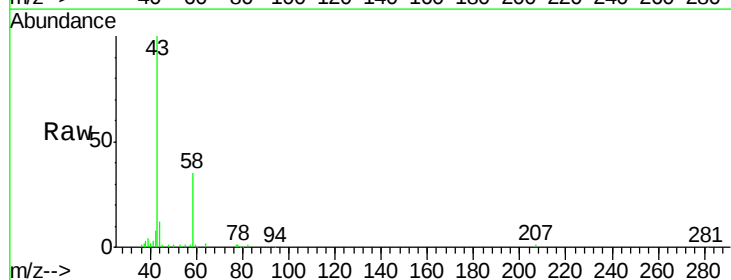
Acq: 16 Dec 2020 06:30

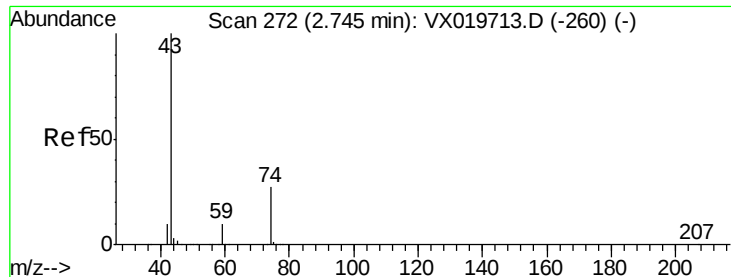
Tgt Ion: 43 Resp: 26468

Ion Ratio Lower Upper

43 100

58 35.3 27.8 41.8

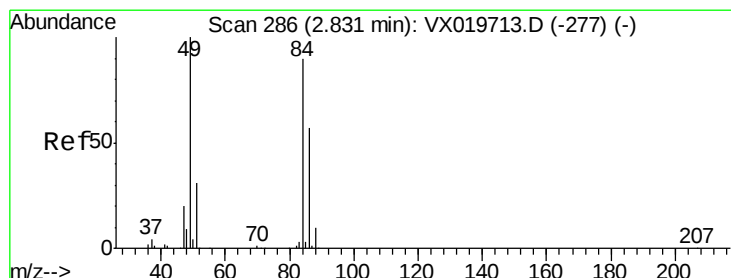
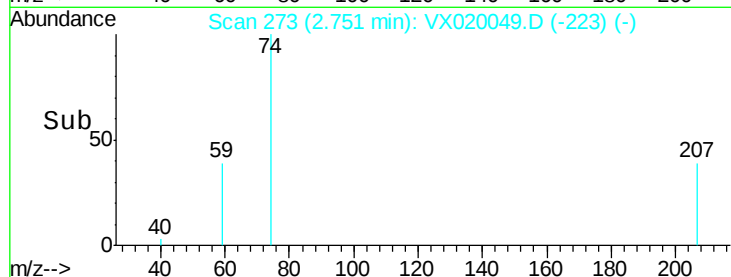
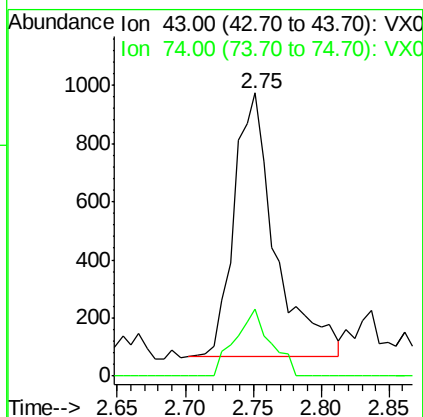
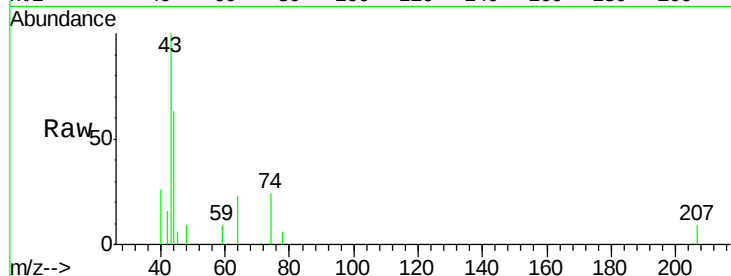




#18
Methyl Acetate
Concen: 0.524 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX020049.D
Acq: 16 Dec 2020 06:30

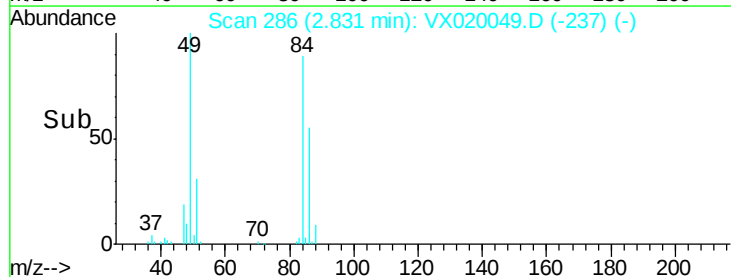
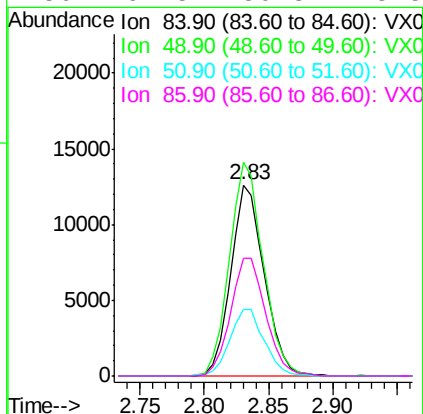
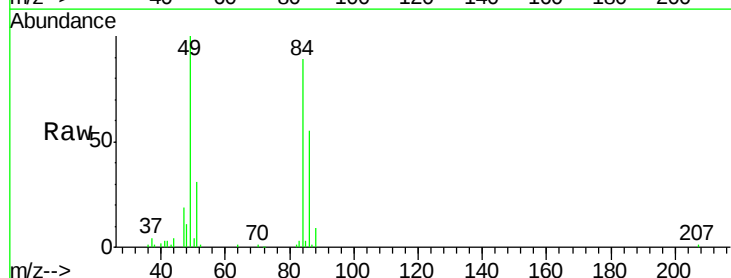
Instrument :
MSVOA_X
ClientSampled :
TR3-A-TOP

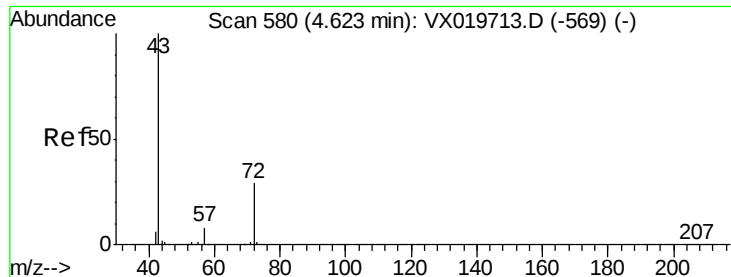
Tgt Ion: 43 Resp: 1924
Ion Ratio Lower Upper
43 100
74 22.0 21.9 32.9



#20
Methylene Chloride
Concen: 5.392 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX020049.D
Acq: 16 Dec 2020 06:30

Tgt Ion: 84 Resp: 22823
Ion Ratio Lower Upper
84 100
49 111.7 88.6 132.8
51 34.7 27.0 40.6
86 61.5 50.3 75.5





#25

2-Butanone

Concen: 1.560 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampled :

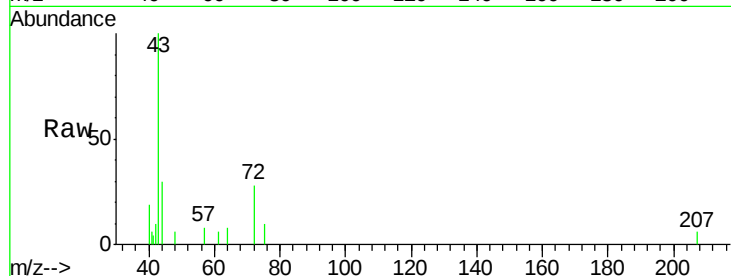
TR3-A-TOP

Tgt Ion: 43 Resp: 3599

Ion Ratio Lower Upper

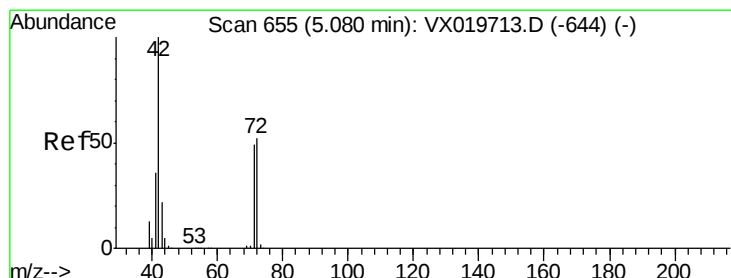
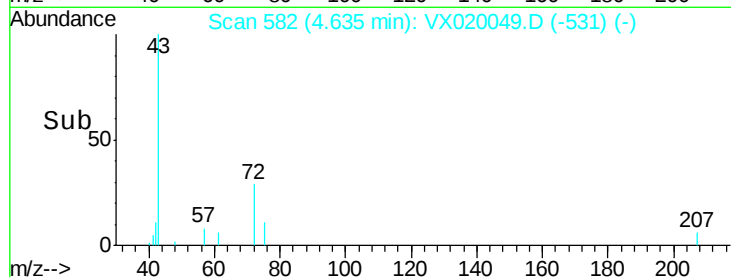
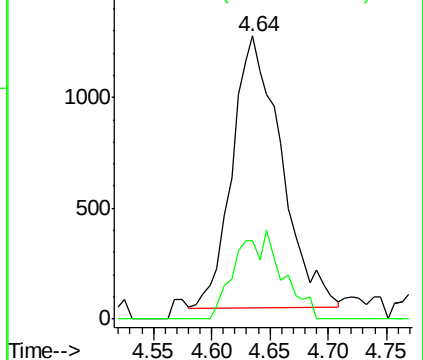
43 100

72 28.7 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: 0.598 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

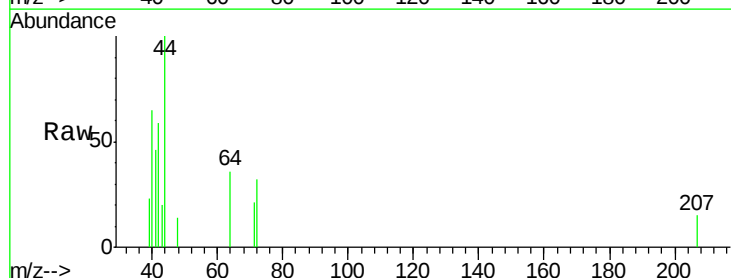
Tgt Ion: 42 Resp: 889

Ion Ratio Lower Upper

42 100

72 34.8 41.7 62.5#

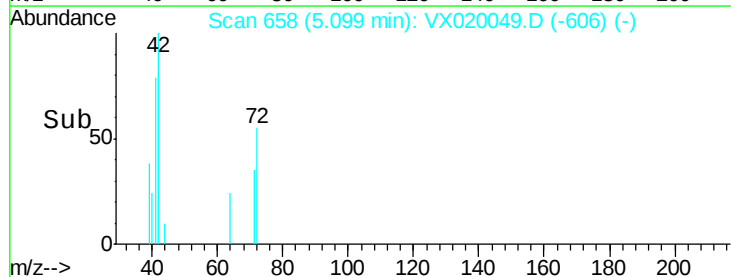
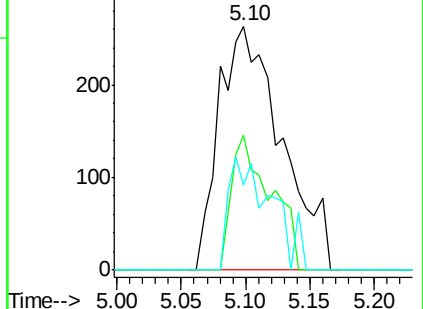
71 31.9 38.4 57.6#

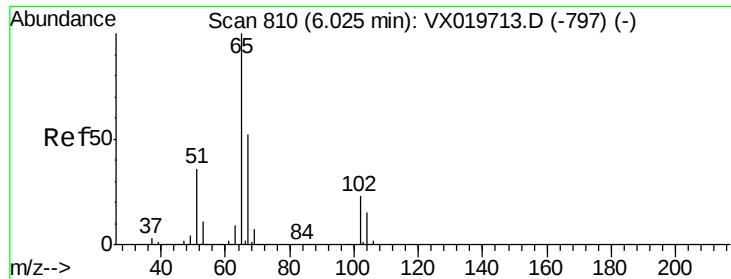


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

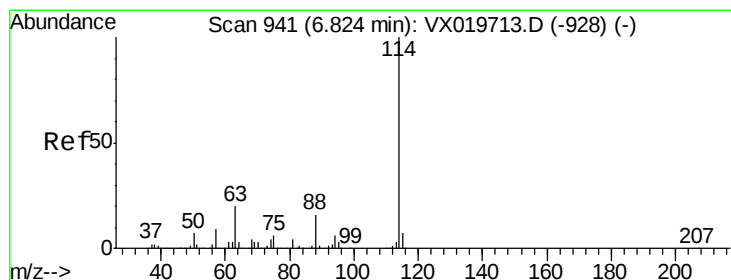
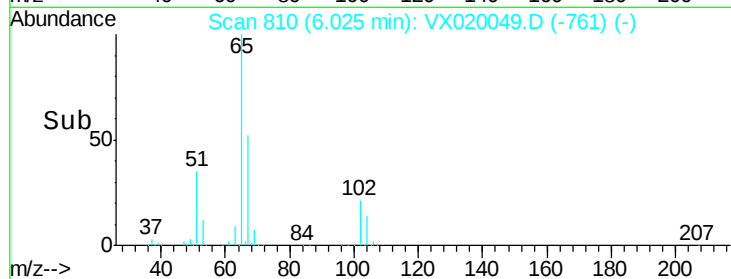
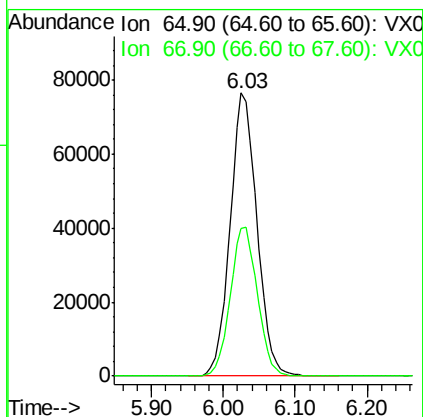
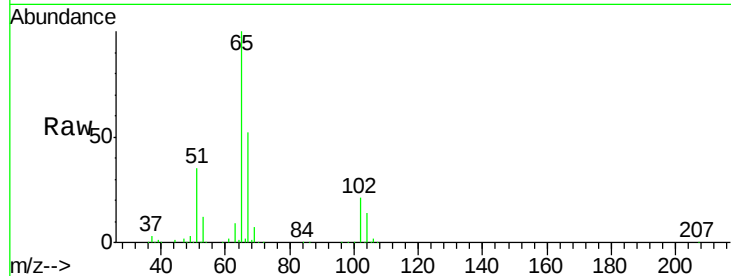




#33
 1,2-Dichloroethane-d4
 Concen: 49.565 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX020049.D
 Acq: 16 Dec 2020 06:30

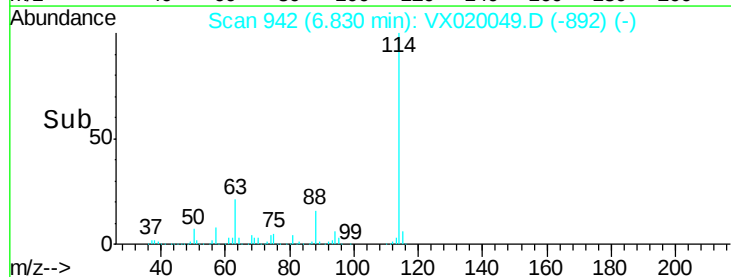
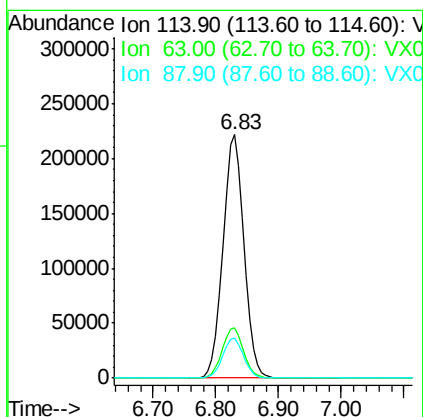
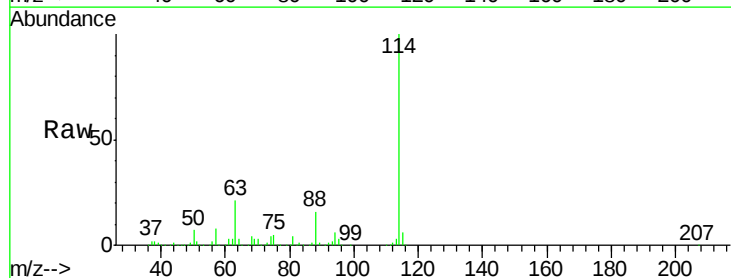
Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-A-TOP

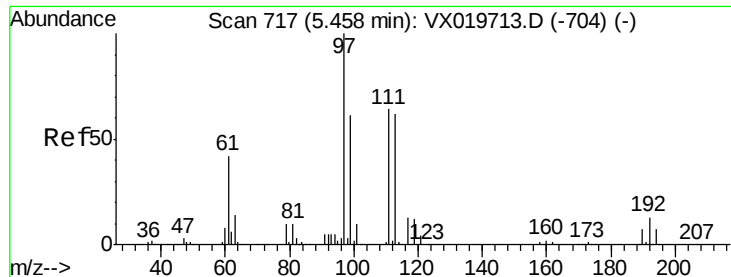
Tgt Ion: 65 Resp: 197925
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020049.D
 Acq: 16 Dec 2020 06:30

Tgt Ion: 114 Resp: 514639
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.8
 88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.688 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampleId :

TR3-A-TOP

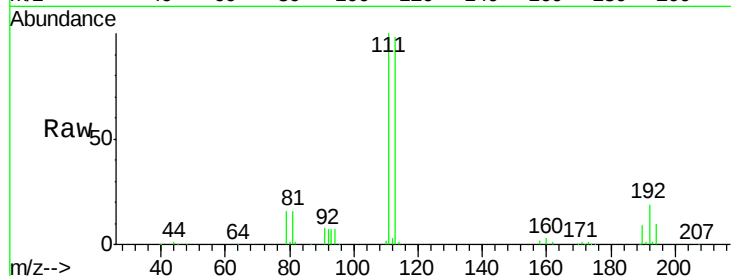
Tgt Ion:113 Resp: 161937

Ion Ratio Lower Upper

113 100

111 101.7 81.9 122.9

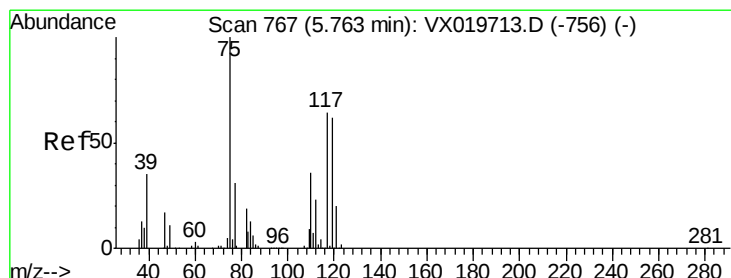
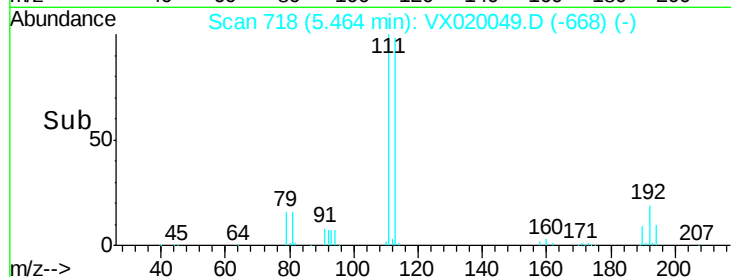
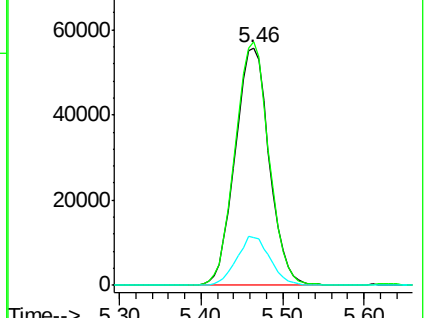
192 20.1 16.7 25.1



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: 5.102 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

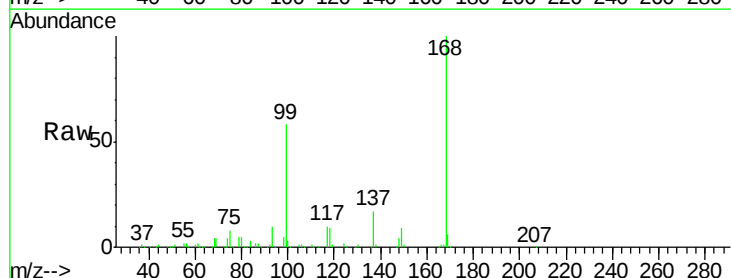
Tgt Ion: 75 Resp: 23725

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.4#

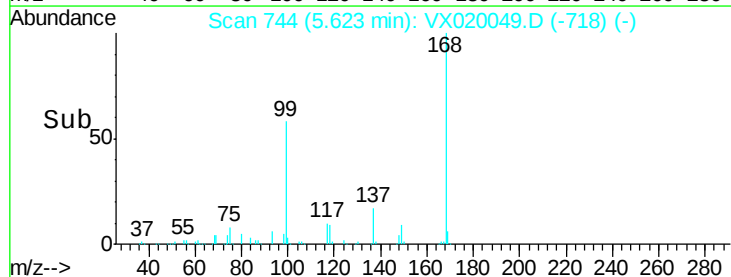
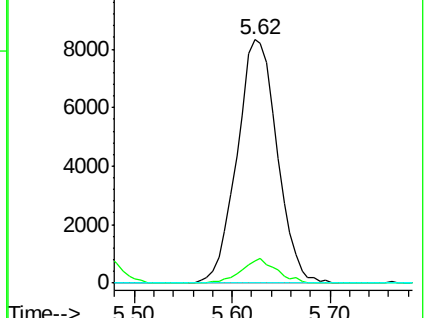
77 0.0 25.3 37.9#

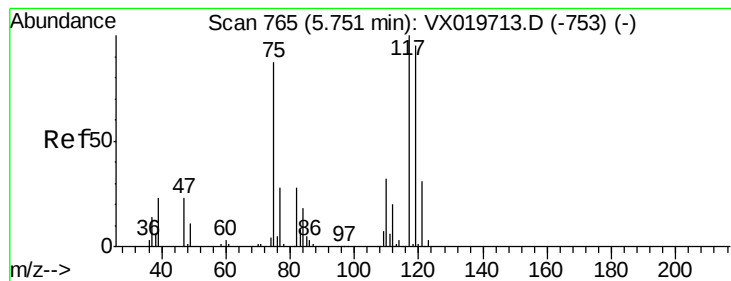


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.632 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampled :

TR3-A-TOP

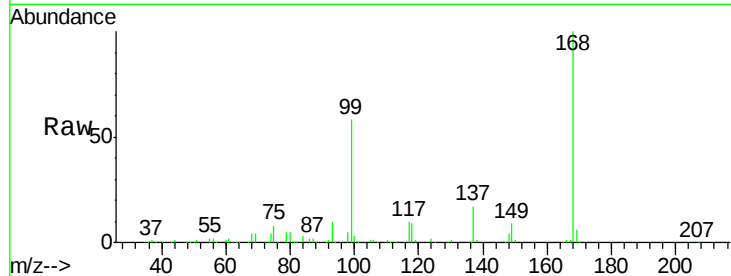
Tgt Ion:117 Resp: 30202

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

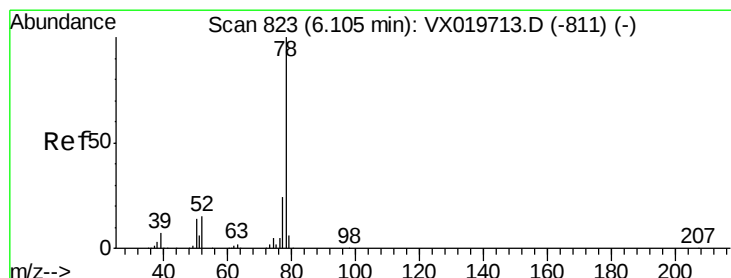
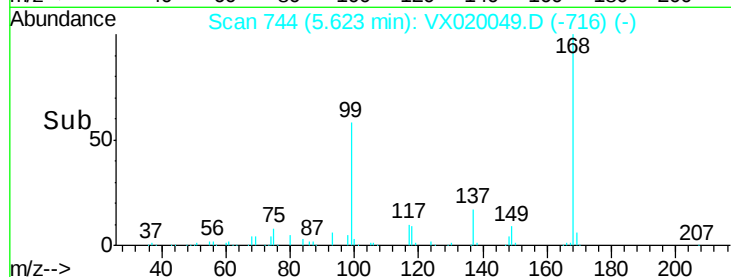
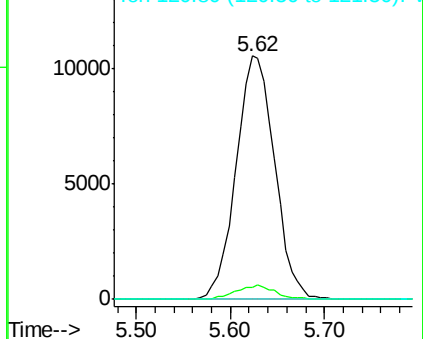
121 0.0 24.8 37.2#



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



#40

Benzene

Concen: 0.386 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX020049.D

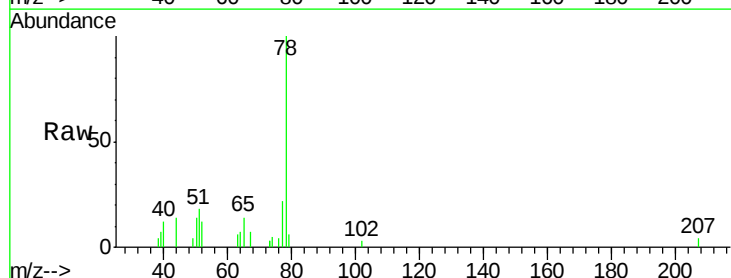
Acq: 16 Dec 2020 06:30

Tgt Ion: 78 Resp: 5483

Ion Ratio Lower Upper

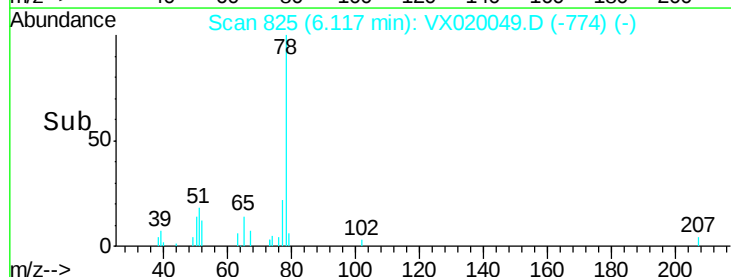
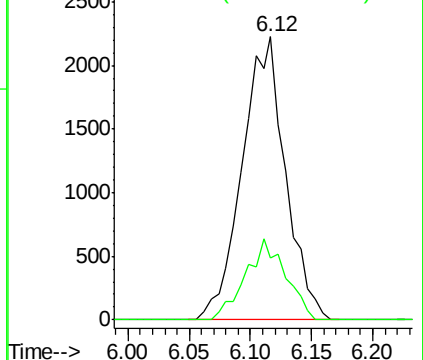
78 100

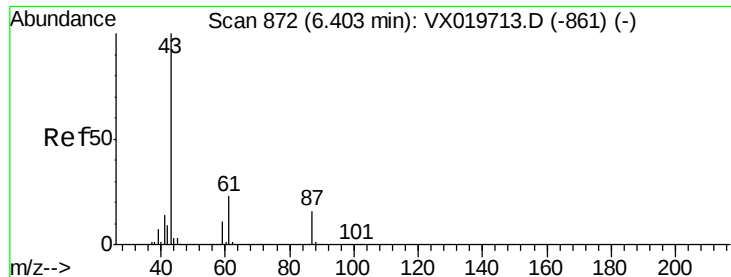
77 22.1 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 2.152 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampleId :

TR3-A-TOP

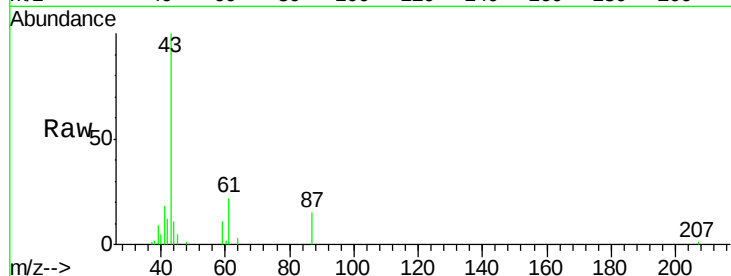
Tgt Ion: 43 Resp: 16428

Ion Ratio Lower Upper

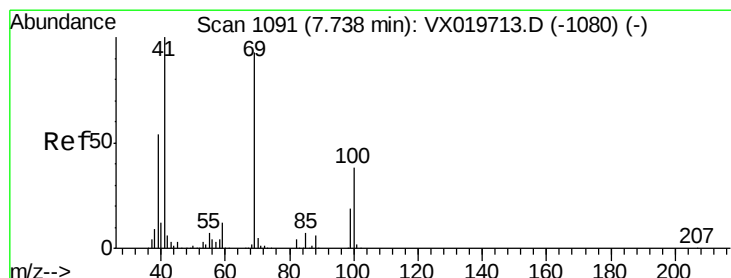
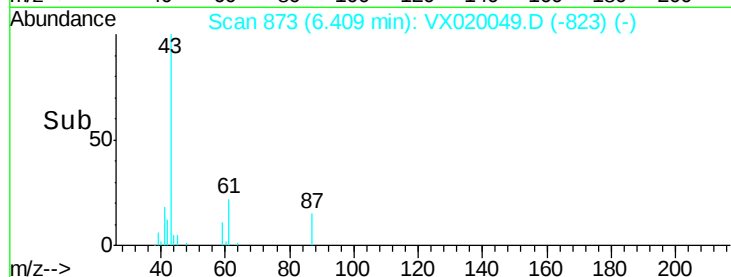
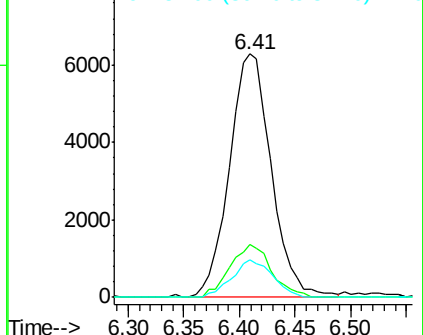
43 100

61 21.4 18.2 27.4

87 14.8 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: 1.523 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

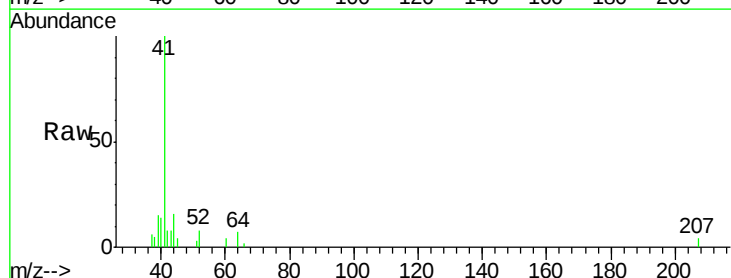
Tgt Ion: 41 Resp: 5719

Ion Ratio Lower Upper

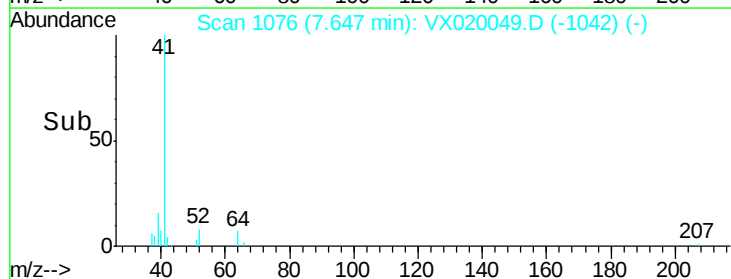
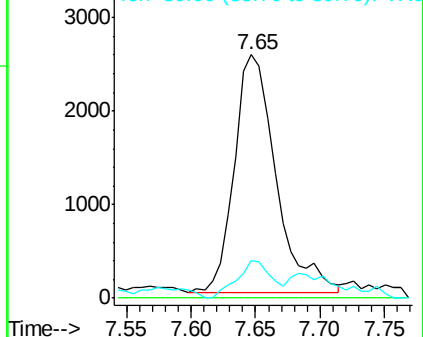
41 100

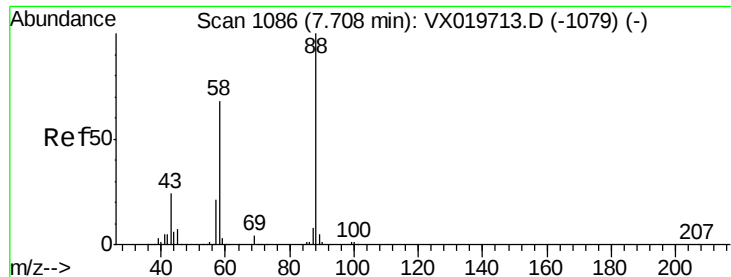
69 0.0 76.0 114.0#

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: 1.187 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampleId :

TR3-A-TOP

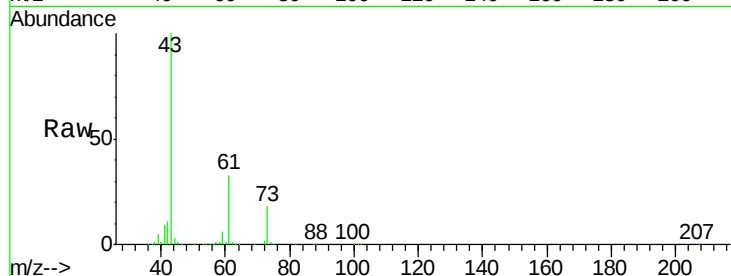
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

43 714802.8 23.2 34.8#

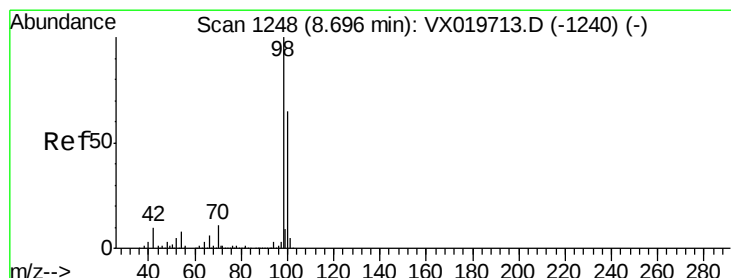
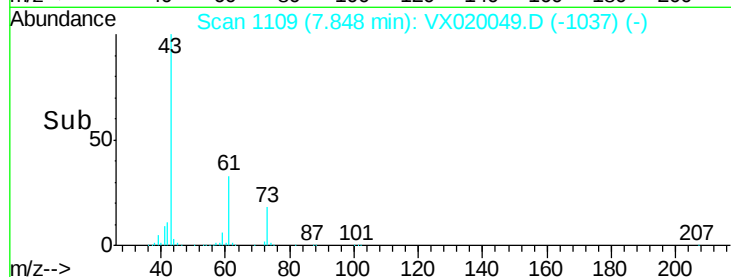
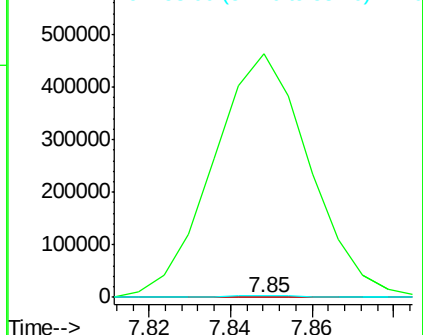
58 4317.6 55.0 82.4#



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: 50.740 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020049.D

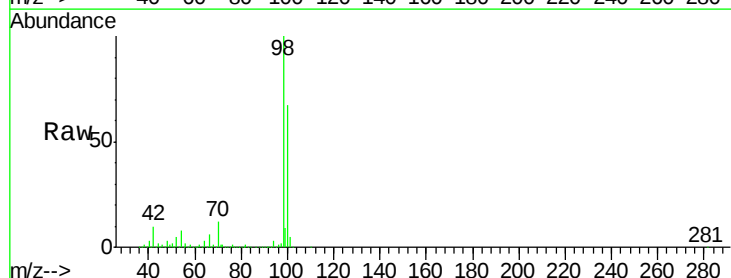
Acq: 16 Dec 2020 06:30

Tgt Ion: 98 Resp: 644297

Ion Ratio Lower Upper

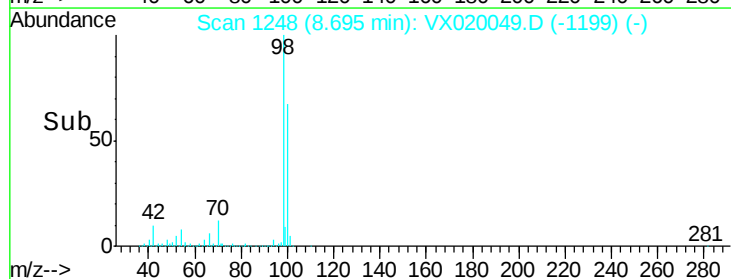
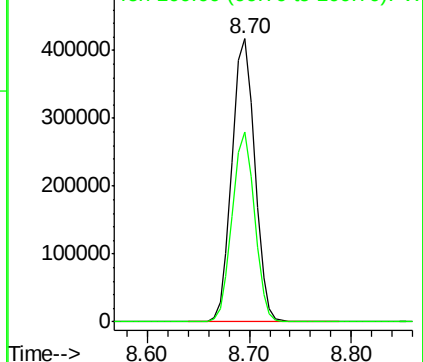
98 100

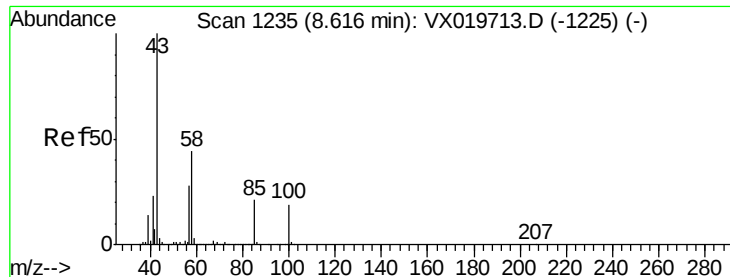
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

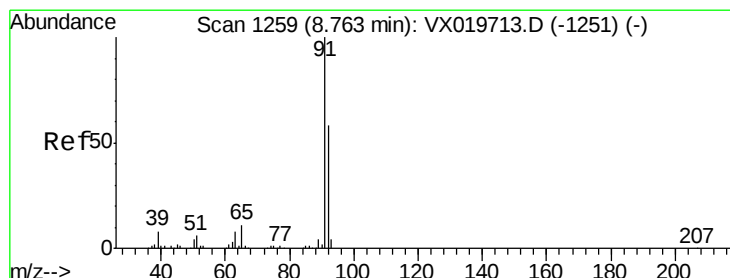
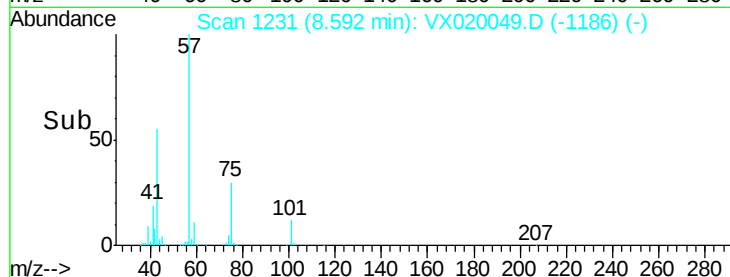
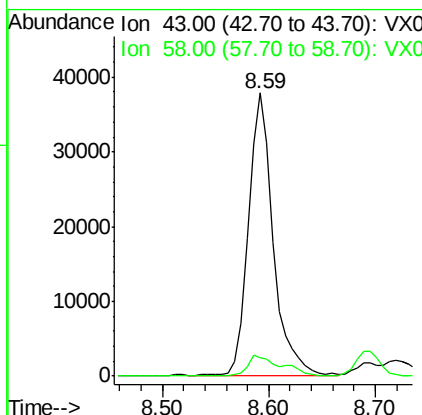
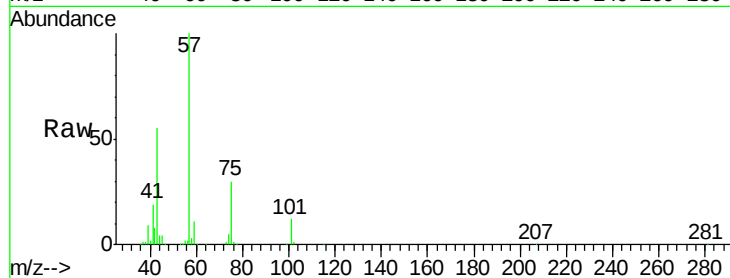




#51
 4-Methyl-2-Pentanone
 Concen: 13.182 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX020049.D
 Acq: 16 Dec 2020 06:30

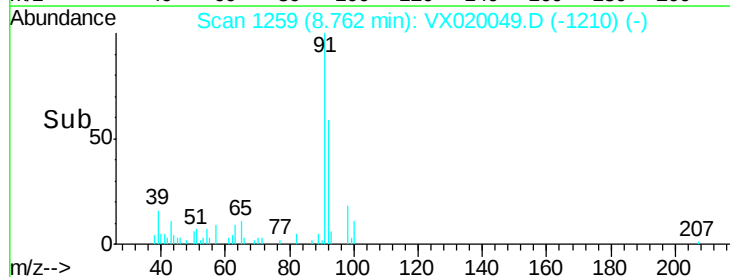
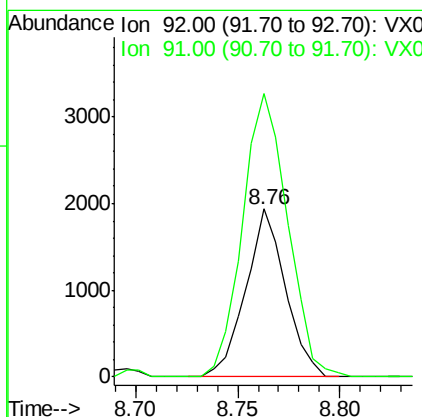
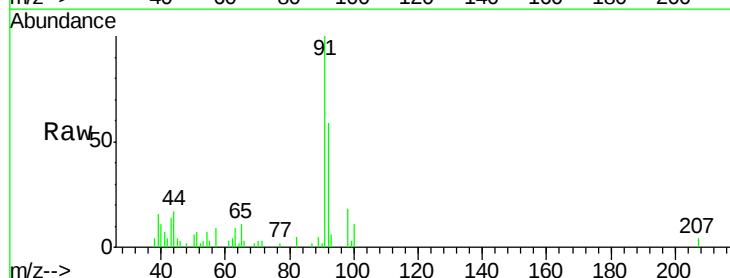
Instrument :
 MSVOA_X
 ClientSampled :
 TR3-A-TOP

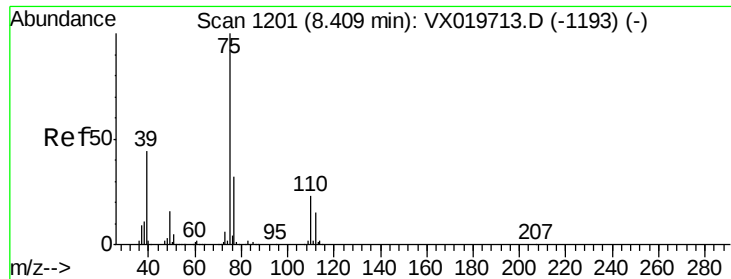
Tgt Ion: 43 Resp: 61436
 Ion Ratio Lower Upper
 43 100
 58 10.1 35.4 53.0#



#52
 Toluene
 Concen: 0.296 ug/l
 RT: 8.76 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VX020049.D
 Acq: 16 Dec 2020 06:30

Tgt Ion: 92 Resp: 2629
 Ion Ratio Lower Upper
 92 100
 91 190.8 137.1 205.7



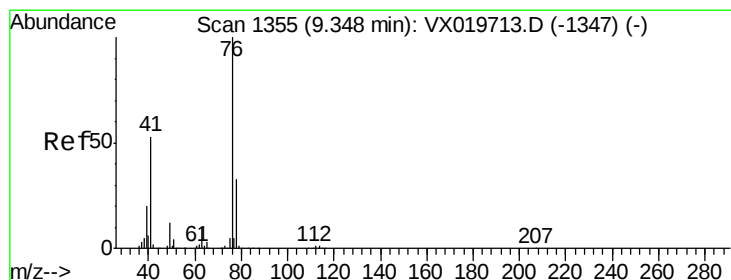
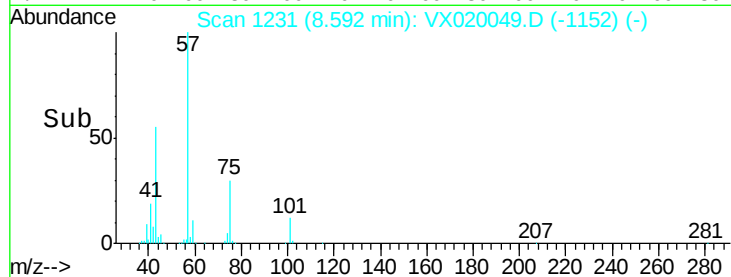
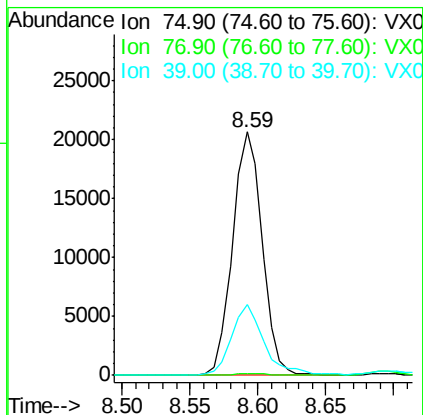
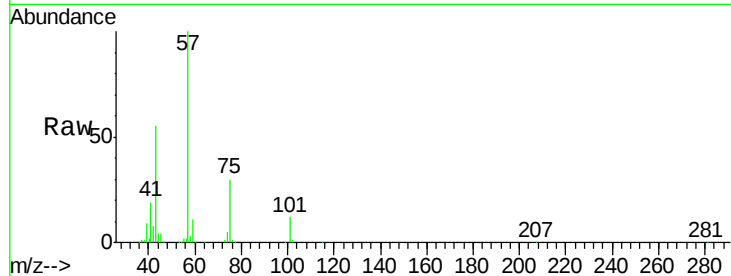


#54

cis-1,3-Dichloropropene
 Concen: 5.454 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX020049.D
 Acq: 16 Dec 2020 06:30

Instrument :
 MSVOA_X
 ClientSampled :
 TR3-A-TOP

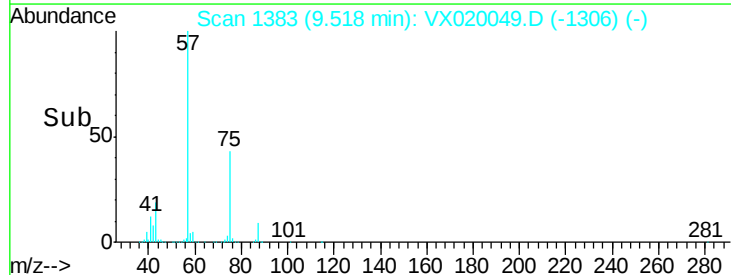
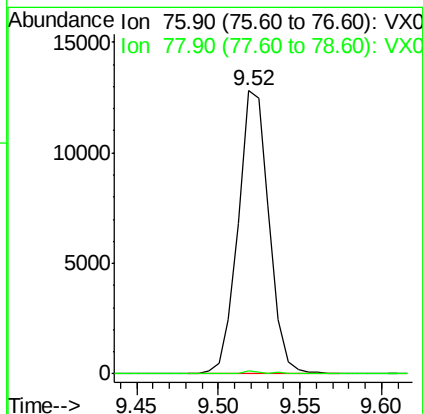
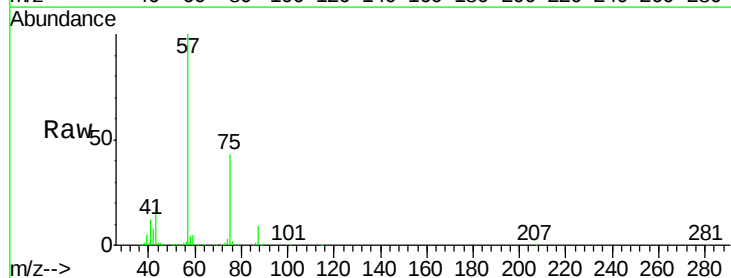
Tgt Ion: 75 Resp: 31282
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.7 38.5#
 39 29.0 35.1 52.7#

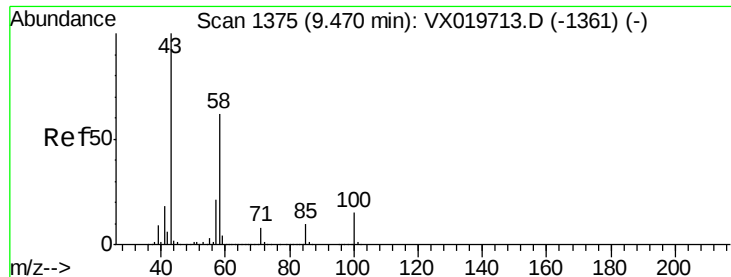


#57

1,3-Dichloropropane
 Concen: 2.763 ug/l
 RT: 9.52 min Scan# 1383
 Delta R.T. 0.17 min
 Lab File: VX020049.D
 Acq: 16 Dec 2020 06:30

Tgt Ion: 76 Resp: 16892
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.2 39.2#

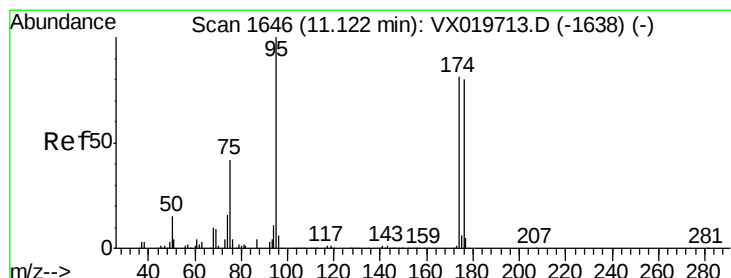
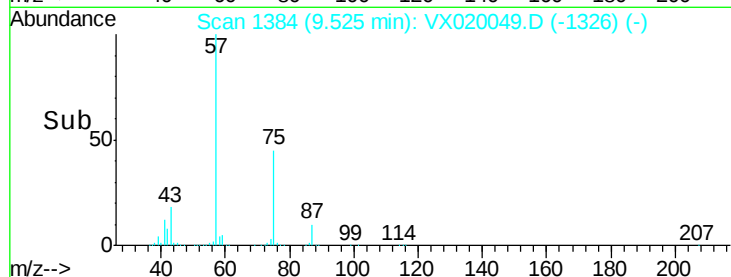
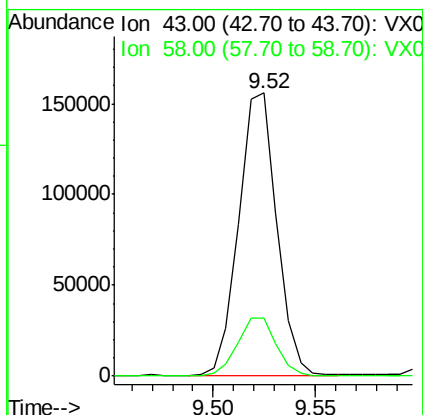
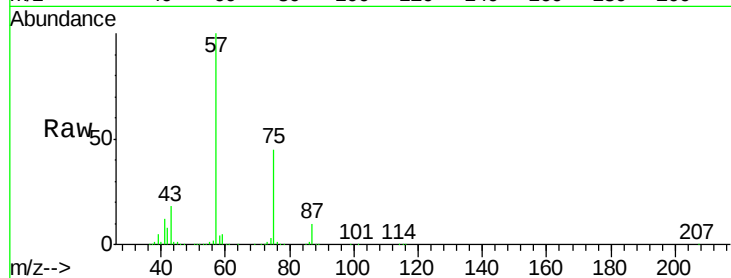




#59
2-Hexanone
Concen: 55.805 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX020049.D
Acq: 16 Dec 2020 06:30

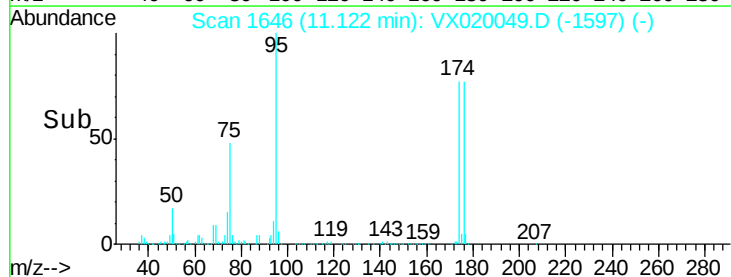
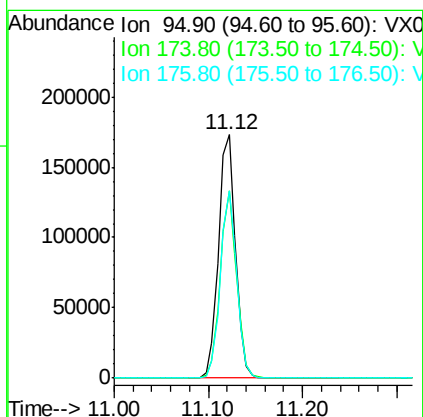
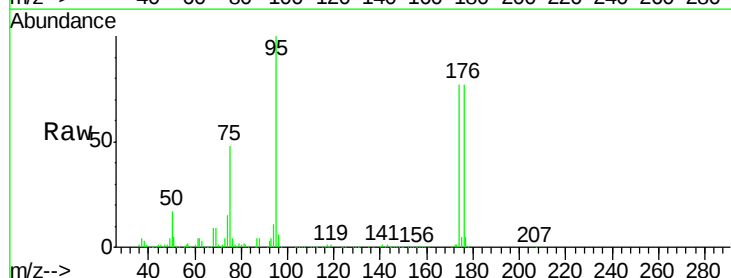
Instrument :
MSVOA_X
ClientSampleId :
TR3-A-TOP

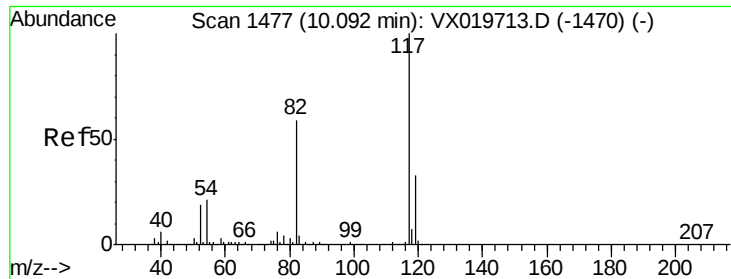
Tgt Ion: 43 Resp: 201604
Ion Ratio Lower Upper
43 100
58 20.9 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 44.805 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX020049.D
Acq: 16 Dec 2020 06:30

Tgt Ion: 95 Resp: 216544
Ion Ratio Lower Upper
95 100
174 74.4 0.0 154.6
176 74.0 0.0 155.8

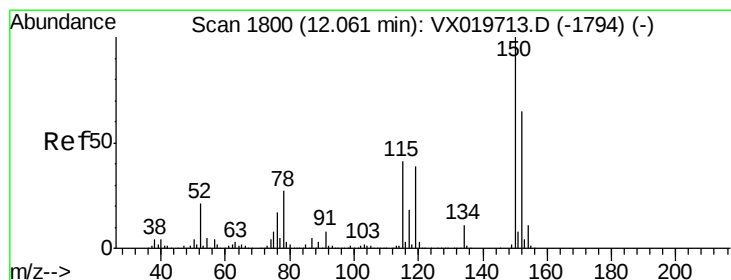
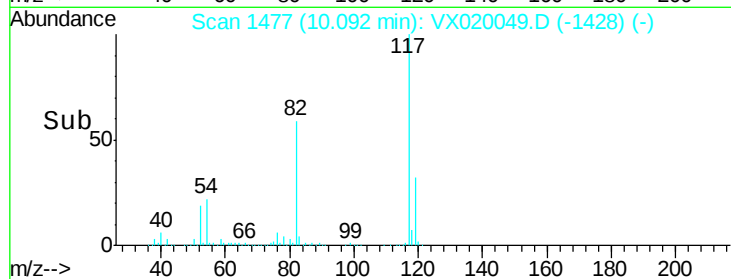
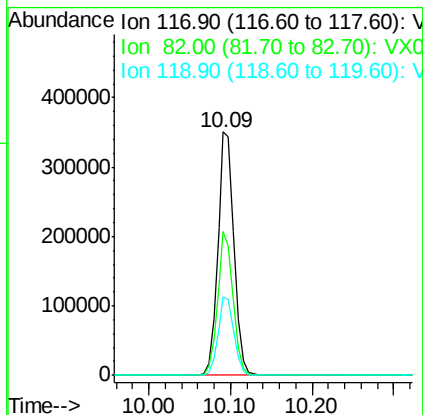
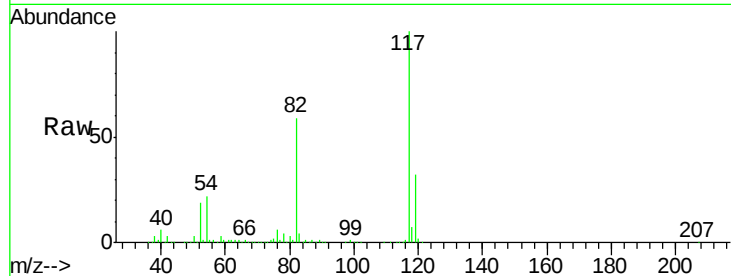




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX020049.D
Acq: 16 Dec 2020 06:30

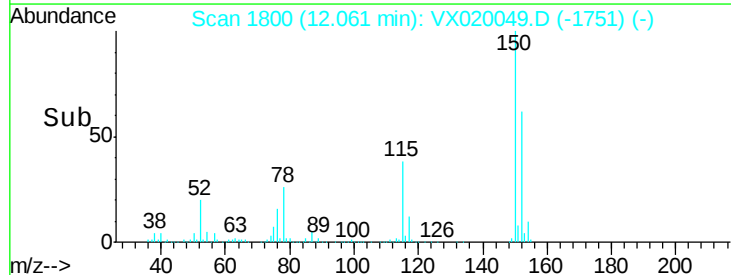
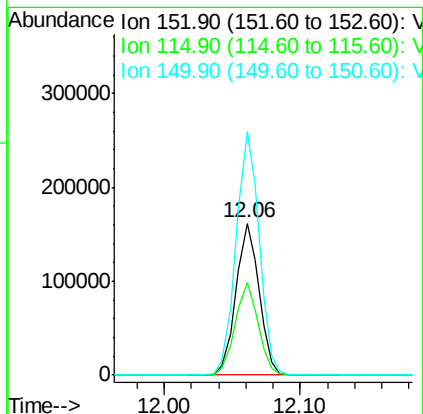
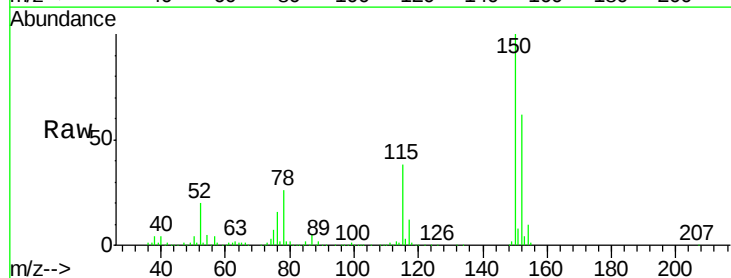
Instrument :
MSVOA_X
ClientSampleId :
TR3-A-TOP

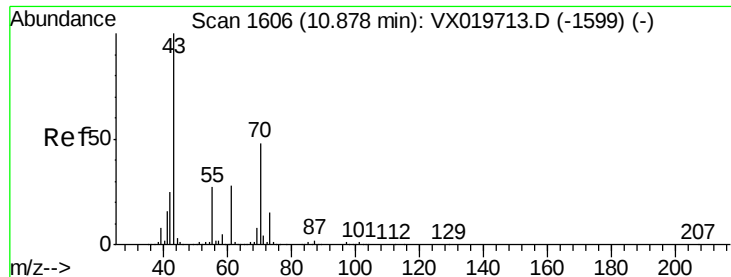
Tgt Ion:117 Resp: 485397
Ion Ratio Lower Upper
117 100
82 59.0 47.4 71.2
119 32.3 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX020049.D
Acq: 16 Dec 2020 06:30

Tgt Ion:152 Resp: 191607
Ion Ratio Lower Upper
152 100
115 61.0 41.1 123.3
150 160.3 0.0 349.0





#74

N-ethyl acetate

Concen: 0.204 ug/l

RT: 10.80 min Scan# 1593

Delta R.T. -0.08 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampled :

TR3-A-TOP

Tgt Ion: 43 Resp: 1068

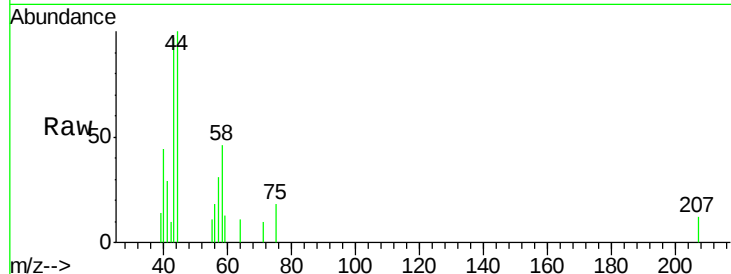
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 9.2 21.5 32.3#

61 0.0 22.1 33.1#

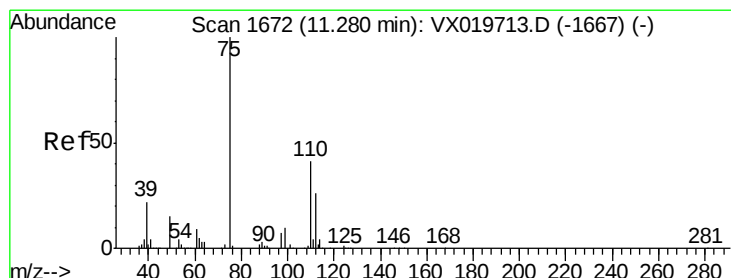
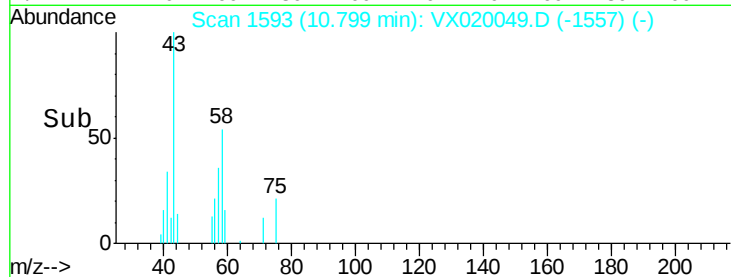
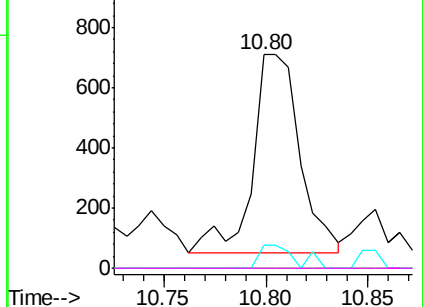


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 24.604 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020049.D

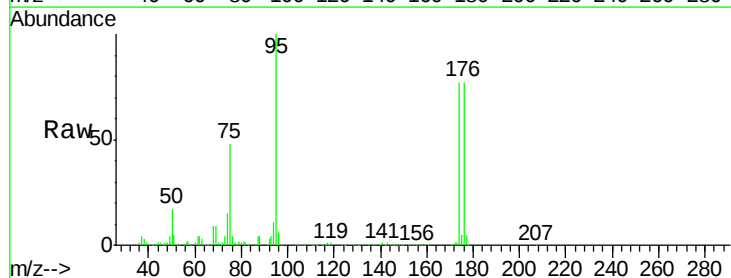
Acq: 16 Dec 2020 06:30

Tgt Ion: 75 Resp: 105733

Ion Ratio Lower Upper

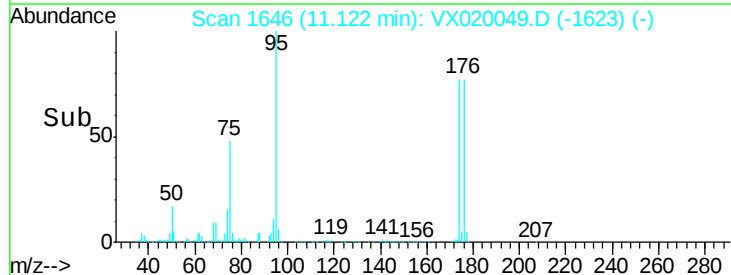
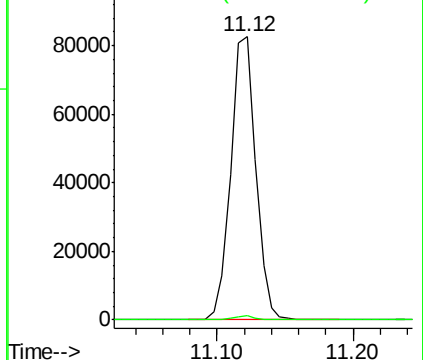
75 100

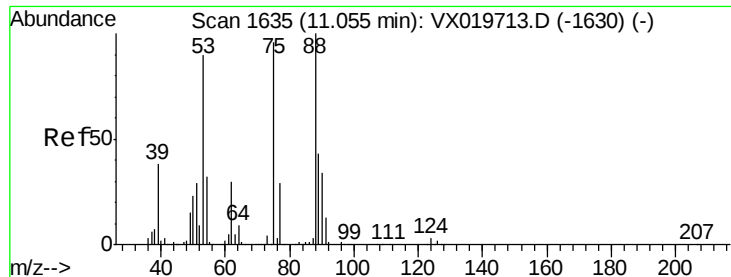
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.125 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX020049.D

Acq: 16 Dec 2020 06:30

Instrument :

MSVOA_X

ClientSampleId :

TR3-A-TOP

Tgt Ion: 75 Resp: 105733

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

