

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020045.D
 Acq On : 16 Dec 2020 04:58
 Operator : JC/MD
 Sample : L5088-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-C-TOP

Quant Time: Dec 16 06:58:16 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	304988	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	508886	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	473850	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	195808	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	199624	49.80	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.60%
35) Dibromofluoromethane	5.46	113	159835	48.60	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.20%
50) Toluene-d8	8.70	98	632047	50.34	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.68%
62) 4-Bromofluorobenzene	11.12	95	214250	44.83	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.66%

Target Compounds

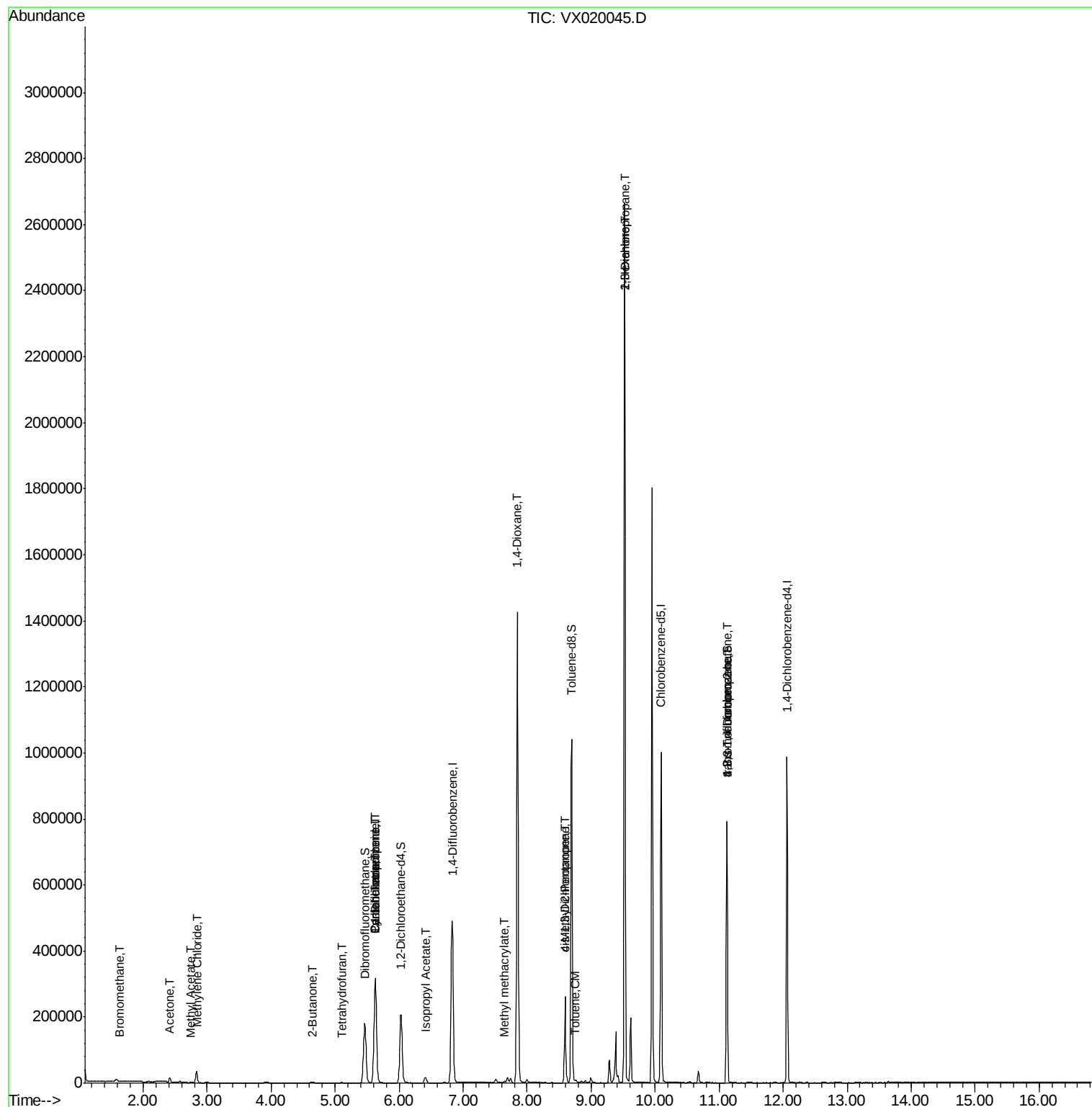
					Qvalue
5) Bromomethane	1.64	94	443	0.385 ug/l #	77
11) Tert butyl alcohol	3.00	59	867	Below Cal #	73
16) Acetone	2.42	43	14004	9.295 ug/l	100
18) Methyl Acetate	2.75	43	2102	0.570 ug/l	97
20) Methylene Chloride	2.84	84	16578	3.497 ug/l	96
25) 2-Butanone	4.64	43	3785	1.635 ug/l	99
29) Tetrahydrofuran	5.10	42	568	0.381 ug/l #	60
31) Cyclohexane	5.62	56	6107	1.225 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23310	5.069 ug/l #	49
38) Carbon Tetrachloride	5.62	117	29534	6.559 ug/l #	18
43) Isopropyl Acetate	6.41	43	22427	2.971 ug/l	99
48) Methyl methacrylate	7.65	41	6446	1.736 ug/l #	10
49) 1,4-Dioxane	7.85	88	245	2.724 ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	81325	17.646 ug/l #	47
52) Toluene	8.76	92	1982	0.226 ug/l	99
54) cis-1,3-Dichloropropene	8.59	75	43211	7.619 ug/l #	61
57) 1,3-Dichloropropane	9.52	76	23809	3.938 ug/l #	43
59) 2-Hexanone	9.52	43	292151	81.783 ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	104774	23.858 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	104774	68.968 ug/l #	12

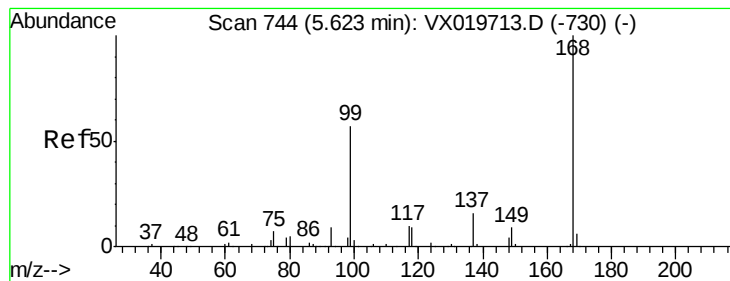
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX020045.D

Acq: 16 Dec 2020 04:58

Instrument :

MSVOA_X

ClientSampleId :

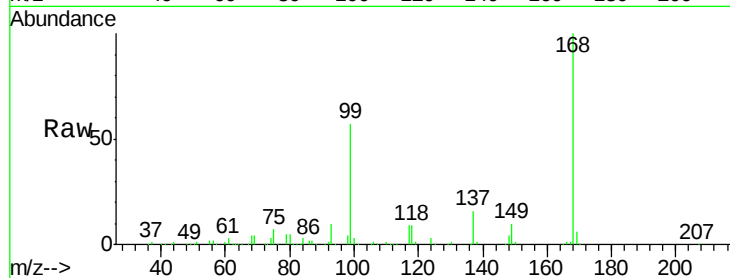
TR2-C-TOP

Tgt Ion:168 Resp: 304988

Ion Ratio Lower Upper

168 100

99 57.1 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

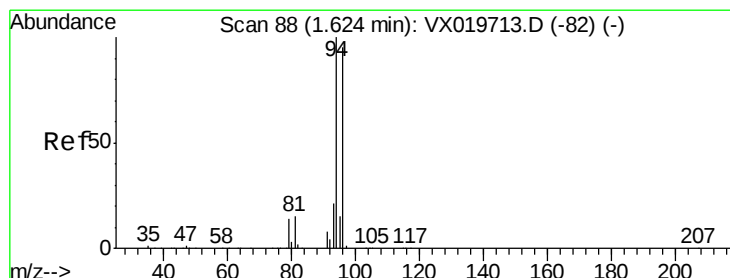
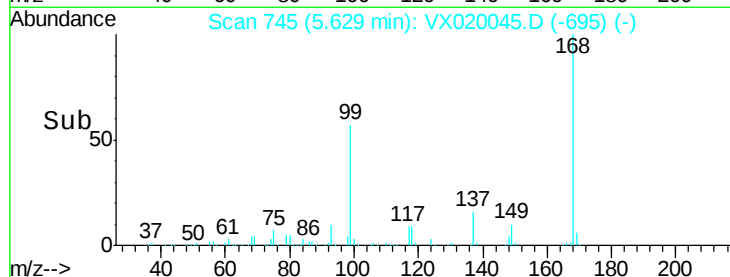
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.385 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020045.D

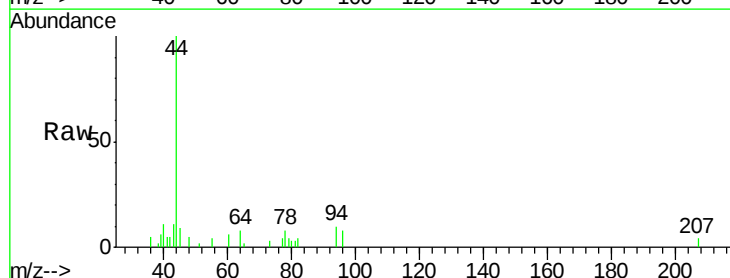
Acq: 16 Dec 2020 04:58

Tgt Ion: 94 Resp: 443

Ion Ratio Lower Upper

94 100

96 73.5 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

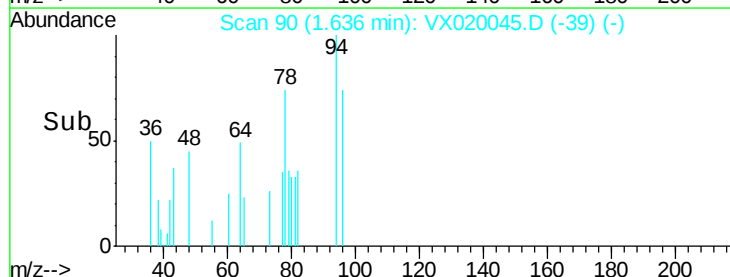
150

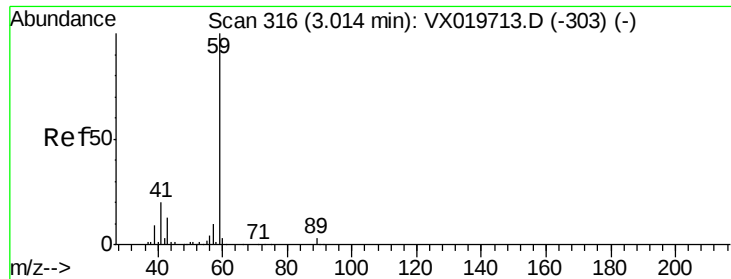
100

50

0

Time-->



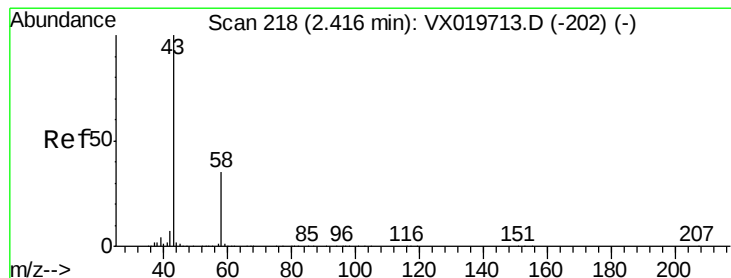
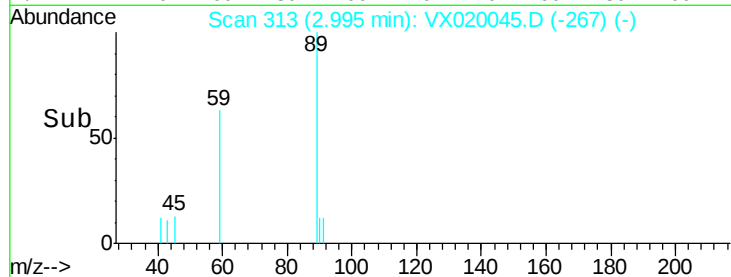
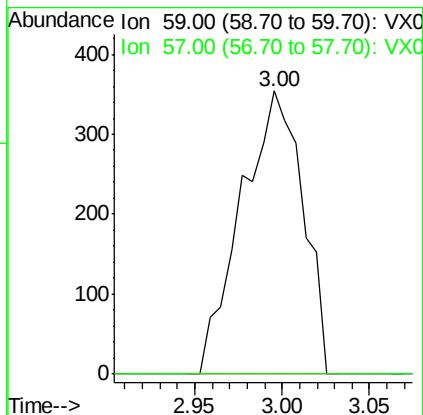
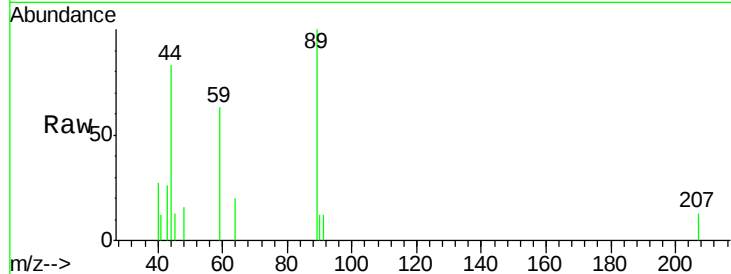


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX020045.D
 Acq: 16 Dec 2020 04:58

Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-C-TOP

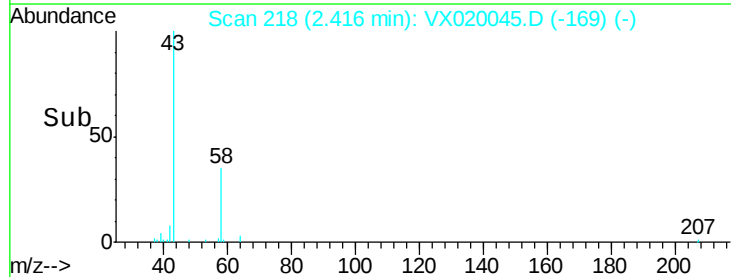
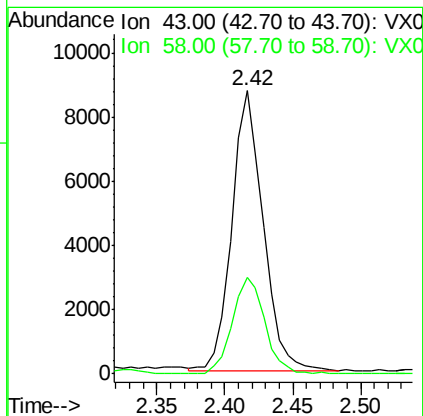
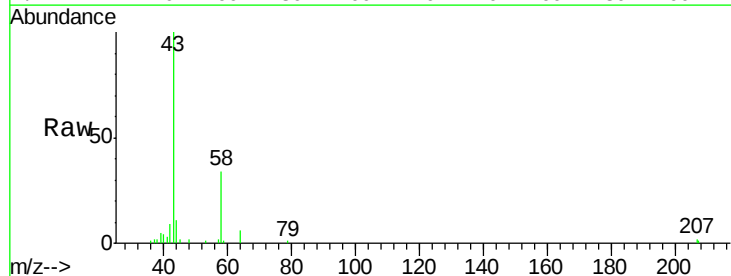
Tgt Ion: 59 Resp: 867
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

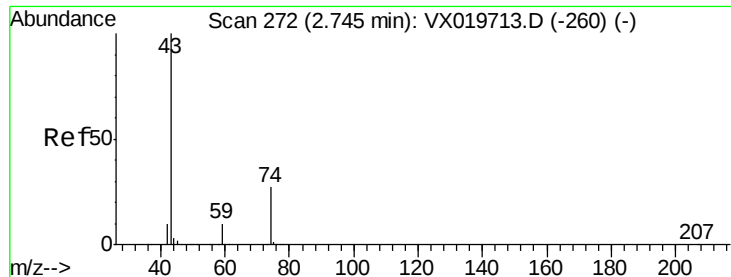


#16

Acetone
 Concen: 9.295 ug/l
 RT: 2.42 min Scan# 218
 Delta R.T. -0.00 min
 Lab File: VX020045.D
 Acq: 16 Dec 2020 04:58

Tgt Ion: 43 Resp: 14004
 Ion Ratio Lower Upper
 43 100
 58 34.6 27.8 41.8

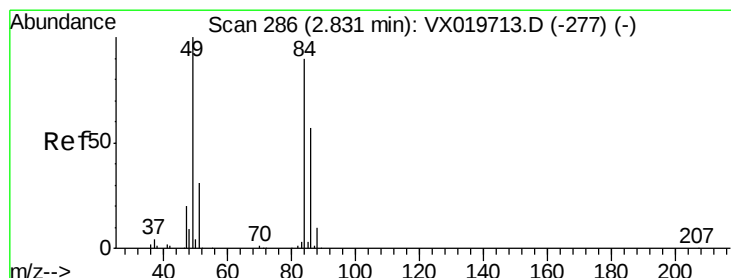
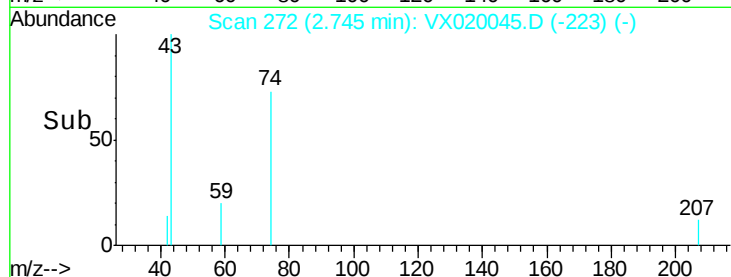
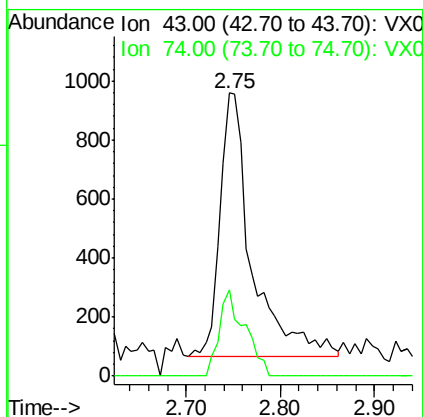
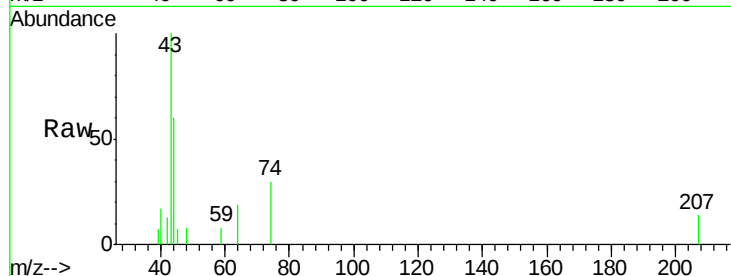




#18
Methyl Acetate
Concen: 0.570 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX020045.D
Acq: 16 Dec 2020 04:58

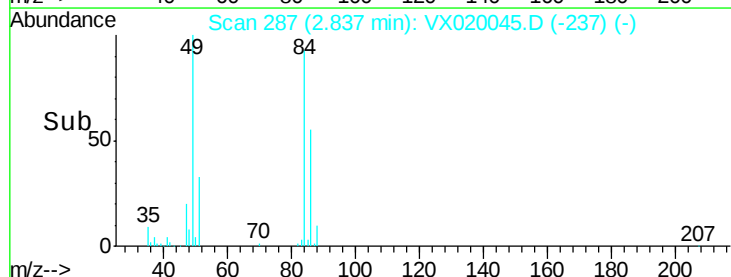
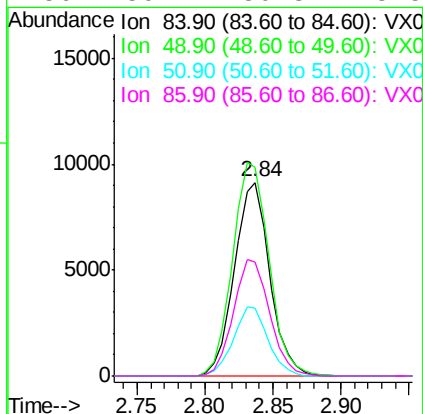
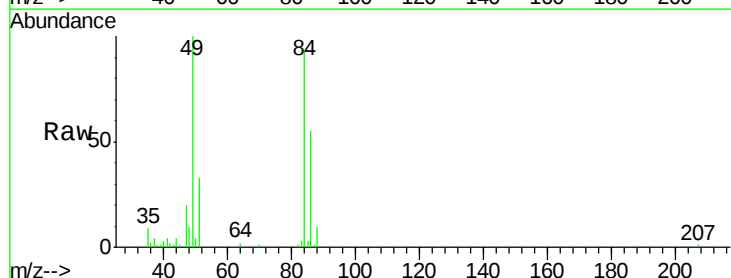
Instrument :
MSVOA_X
ClientSampled :
TR2-C-TOP

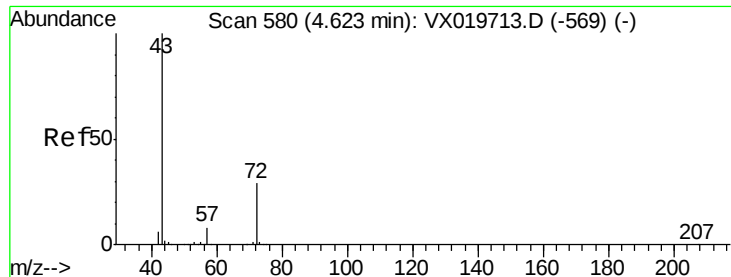
Tgt Ion: 43 Resp: 2102
Ion Ratio Lower Upper
43 100
74 26.0 21.9 32.9



#20
Methylene Chloride
Concen: 3.497 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX020045.D
Acq: 16 Dec 2020 04:58

Tgt Ion: 84 Resp: 16578
Ion Ratio Lower Upper
84 100
49 107.3 88.6 132.8
51 35.2 27.0 40.6
86 59.1 50.3 75.5





#25

2-Butanone

Concen: 1.635 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

Instrument :

MSVOA_X

ClientSampled :

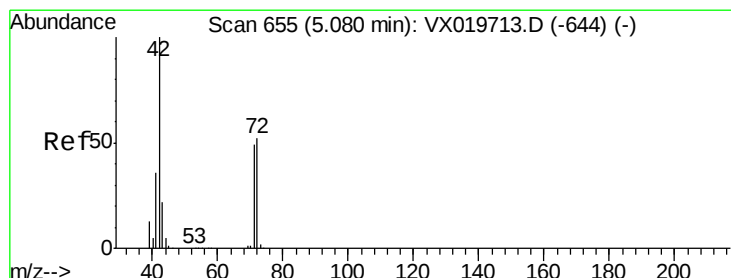
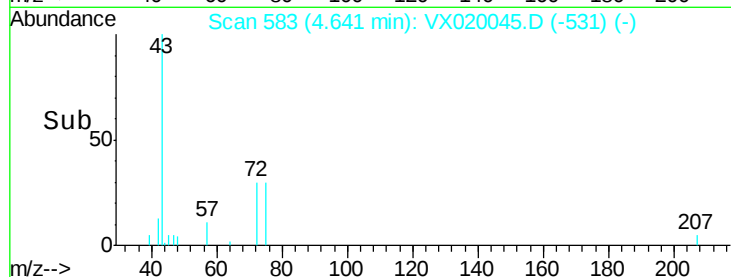
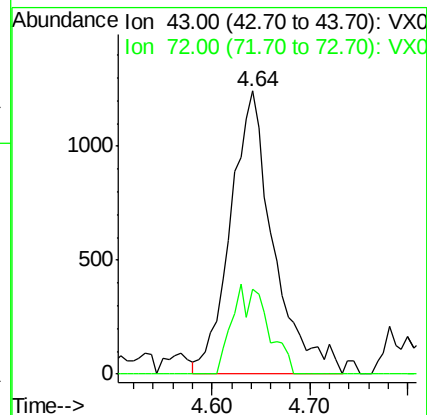
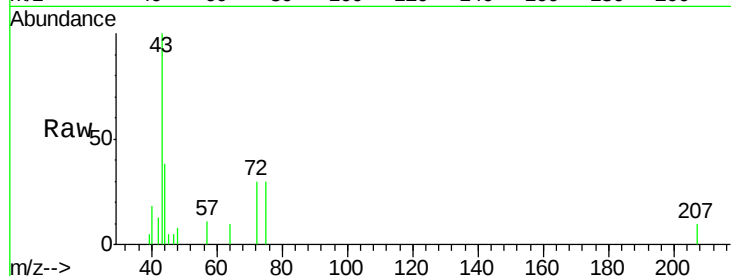
TR2-C-TOP

Tgt Ion: 43 Resp: 3785

Ion Ratio Lower Upper

43 100

72 30.2 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.381 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

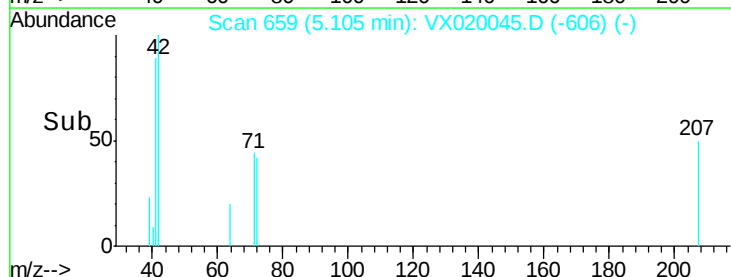
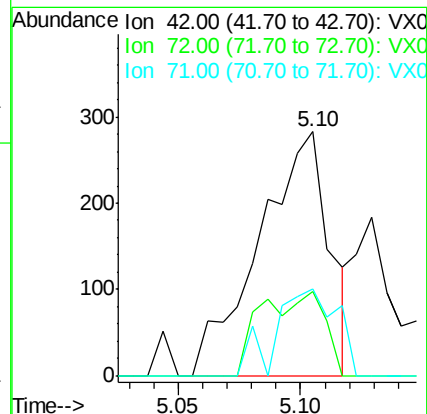
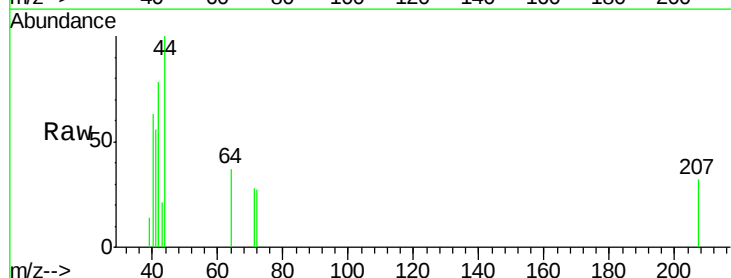
Tgt Ion: 42 Resp: 568

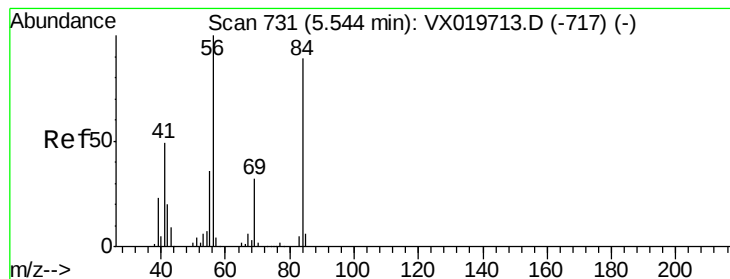
Ion Ratio Lower Upper

42 100

72 14.8 41.7 62.5#

71 31.0 38.4 57.6#





#31

Cyclohexane

Concen: 1.225 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

Instrument :

MSVOA_X

ClientSampled :

TR2-C-TOP

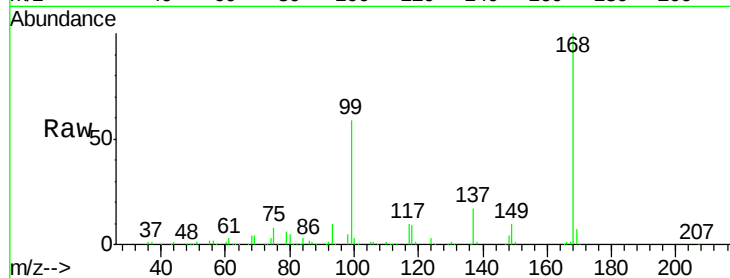
Tgt Ion: 56 Resp: 6107

Ion Ratio Lower Upper

56 100

69 203.3 25.3 37.9#

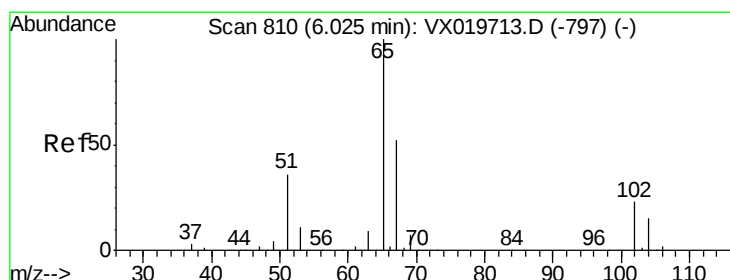
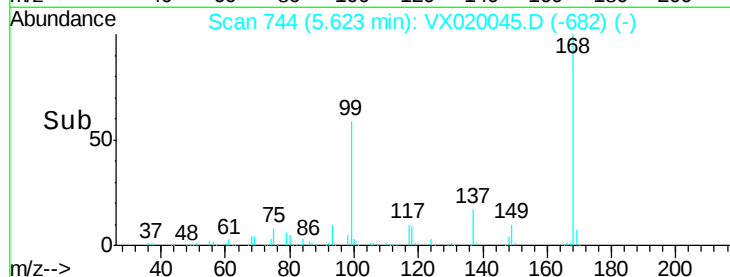
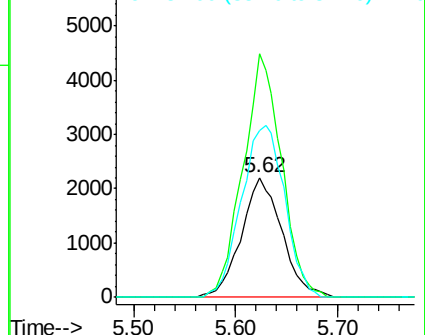
84 139.6 71.4 107.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.801 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX020045.D

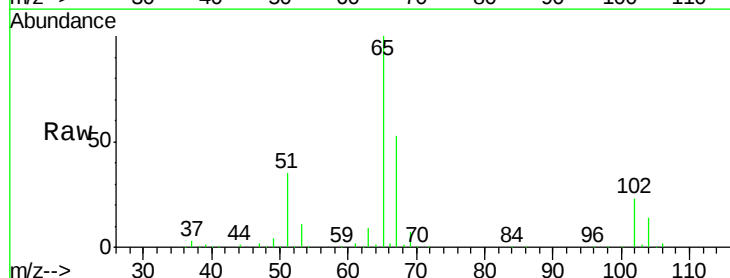
Acq: 16 Dec 2020 04:58

Tgt Ion: 65 Resp: 199624

Ion Ratio Lower Upper

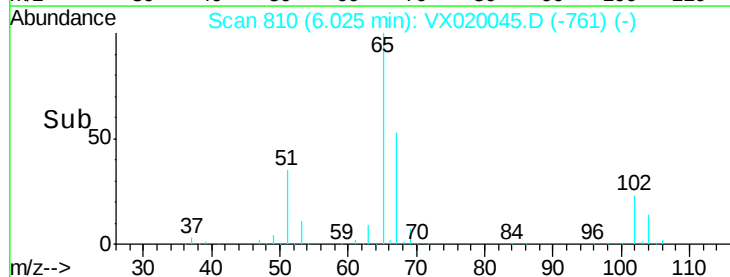
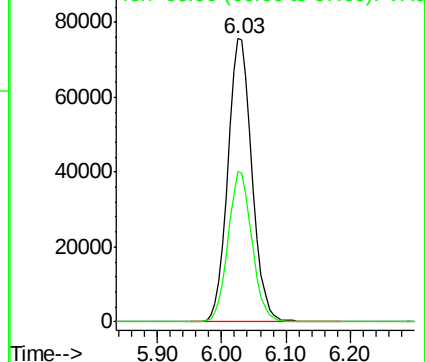
65 100

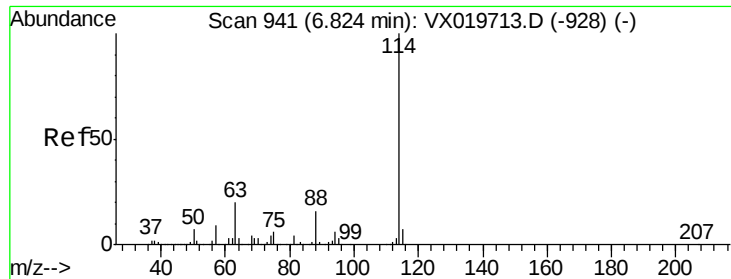
67 52.5 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-TOP

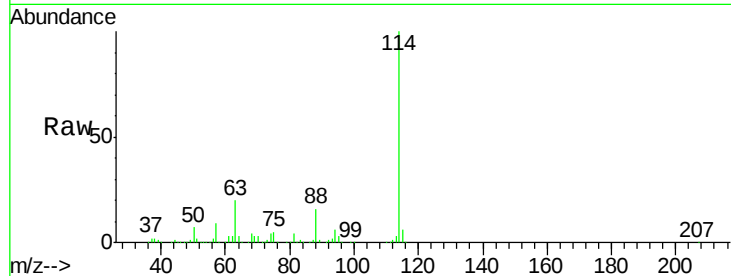
Tgt Ion:114 Resp: 508886

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

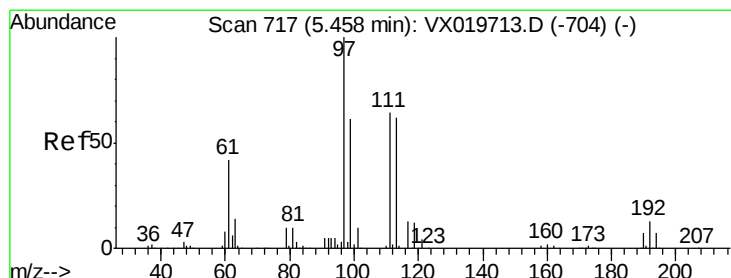
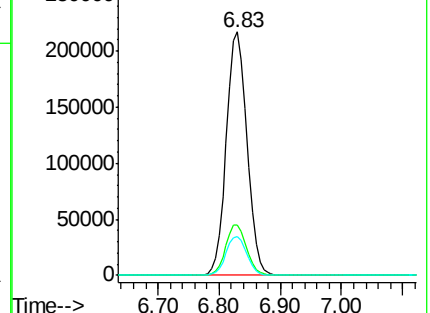
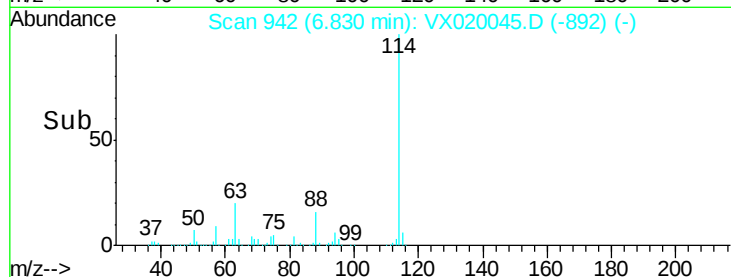
88 15.9 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.599 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.00 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

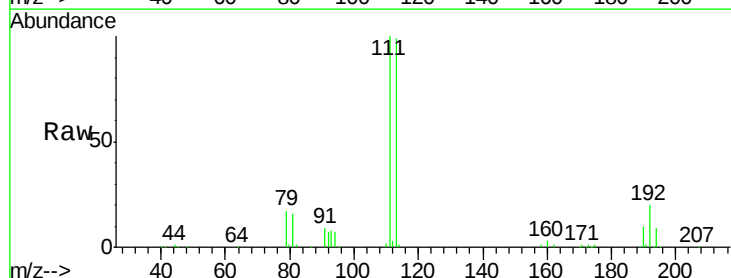
Tgt Ion:113 Resp: 159835

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

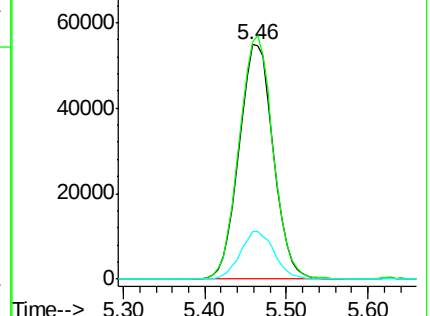
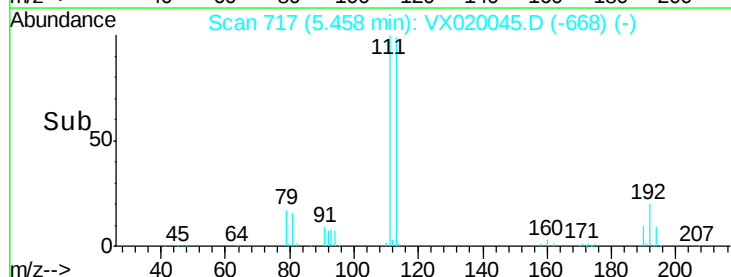
192 20.2 16.7 25.1

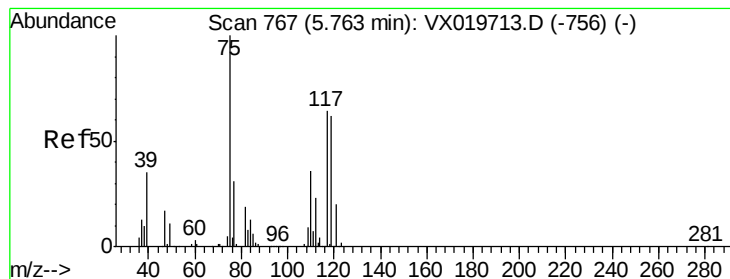


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.069 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-TOP

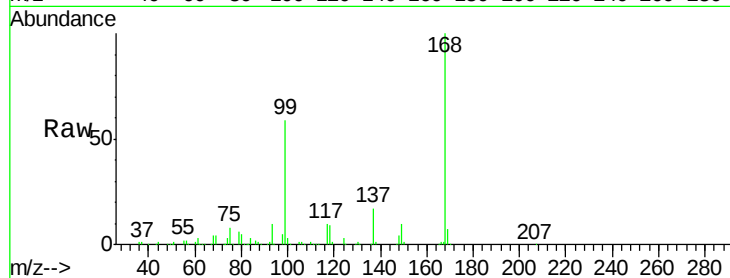
Tgt Ion: 75 Resp: 23310

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

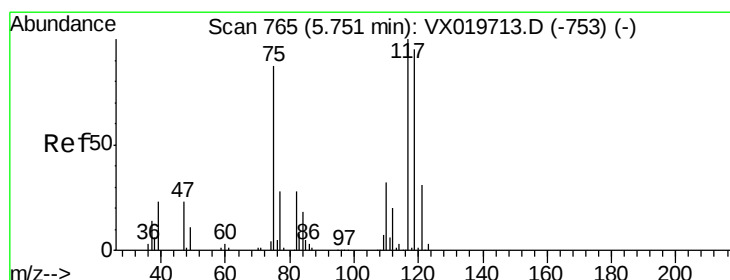
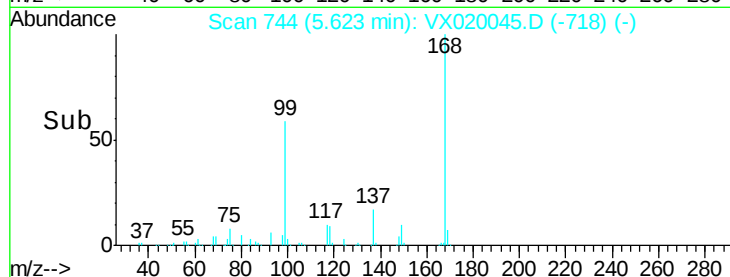
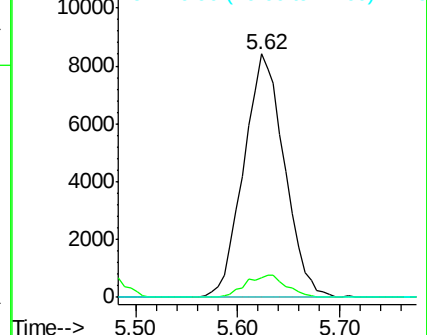
77 0.0 25.3 37.9#



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: 6.559 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

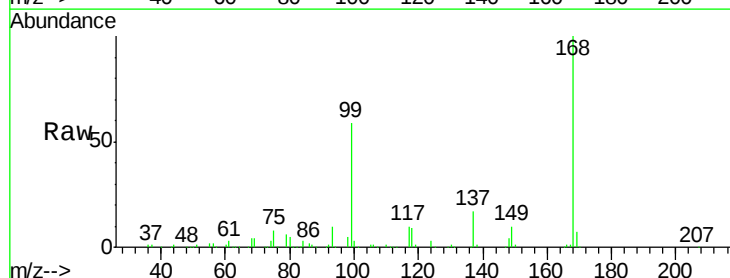
Tgt Ion: 117 Resp: 29534

Ion Ratio Lower Upper

117 100

119 7.0 76.2 114.2#

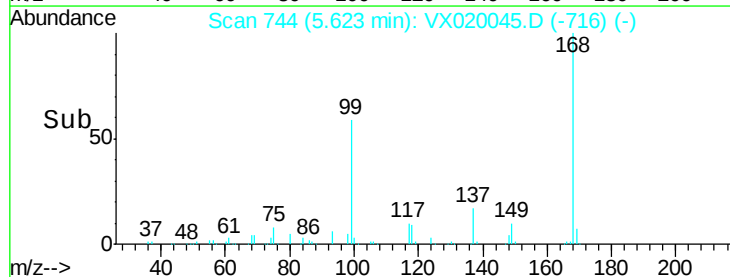
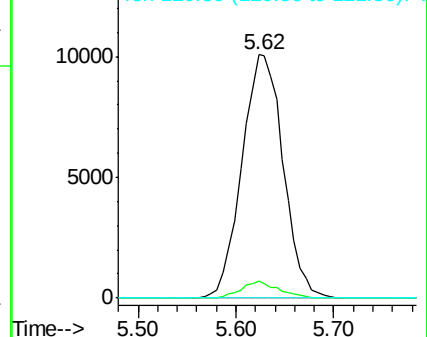
121 0.0 24.8 37.2#

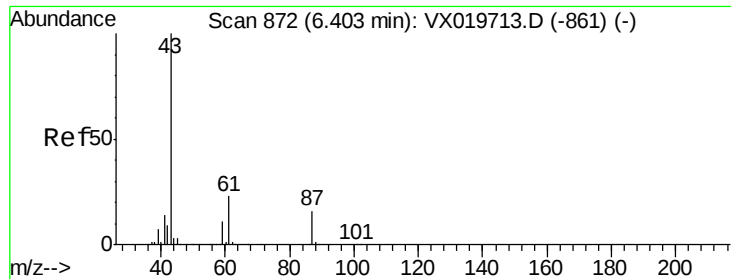


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.971 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-TOP

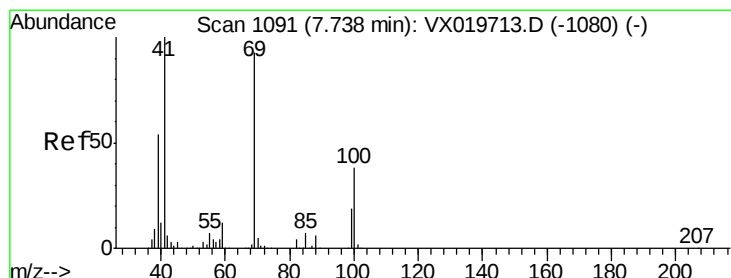
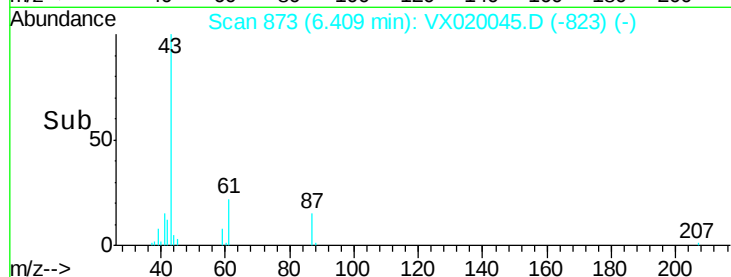
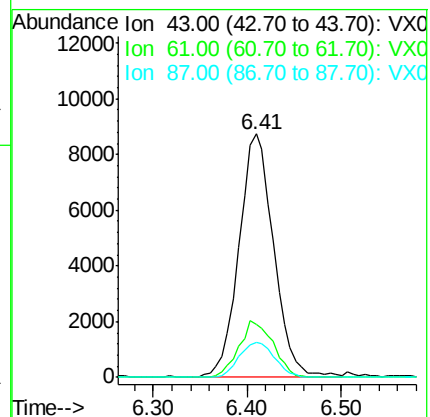
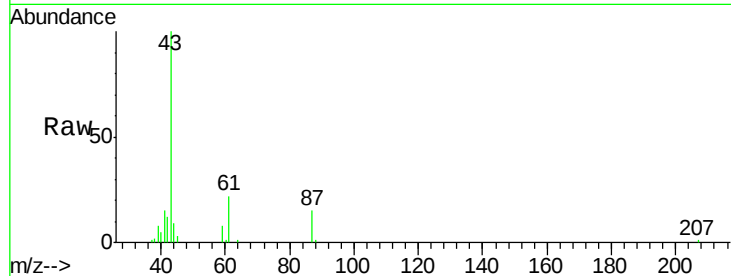
Tgt Ion: 43 Resp: 22427

Ion Ratio Lower Upper

43 100

61 22.8 18.2 27.4

87 14.5 12.5 18.7



#48

Methyl methacrylate

Concen: 1.736 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

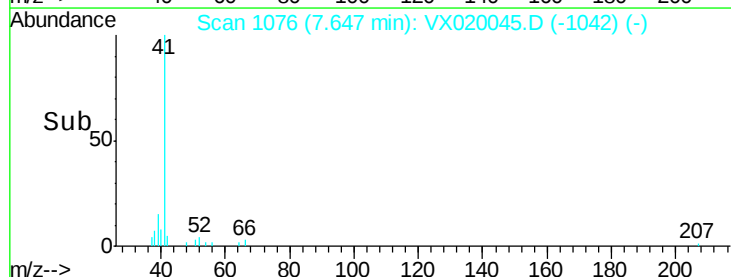
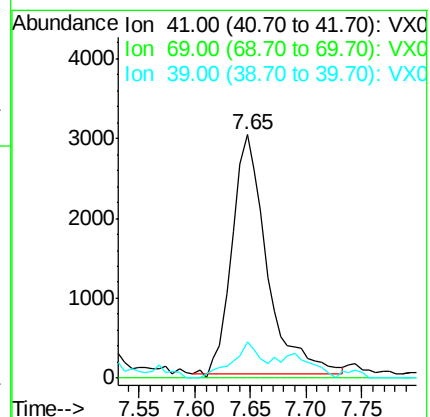
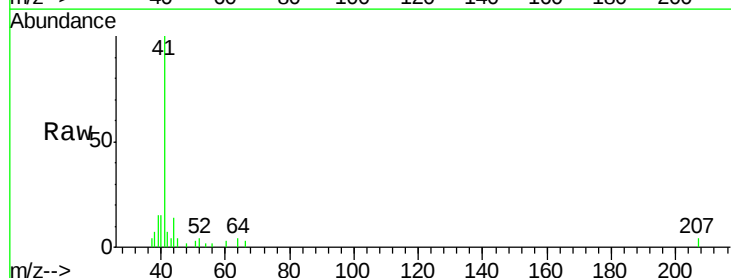
Tgt Ion: 41 Resp: 6446

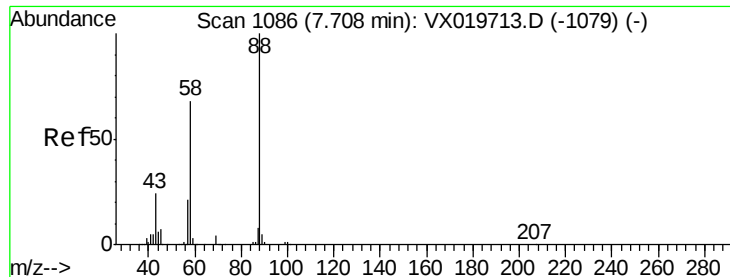
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 2.724 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

Instrument :

MSVOA_X

ClientSampleId :

TR2-C-TOP

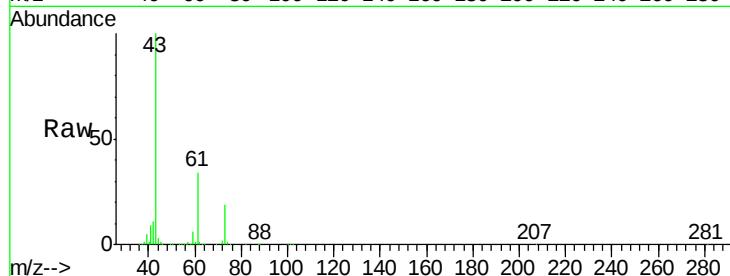
Tgt Ion: 88 Resp: 245

Ion Ratio Lower Upper

88 100

43 496599.6 23.2 34.8#

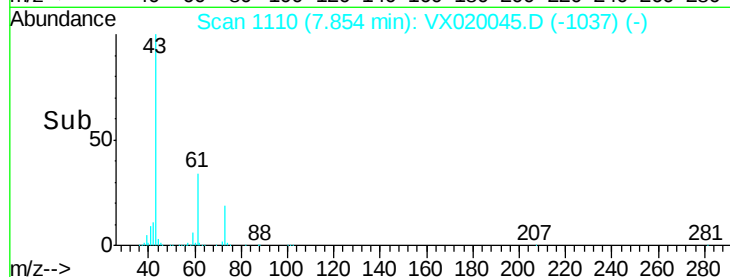
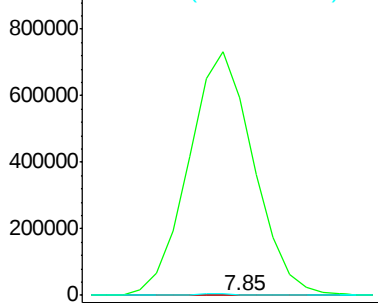
58 2646.9 55.0 82.4#



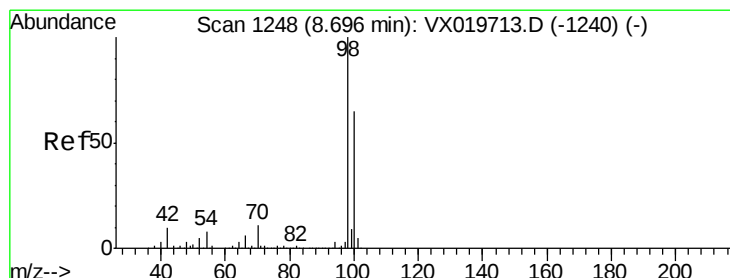
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 50.338 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020045.D

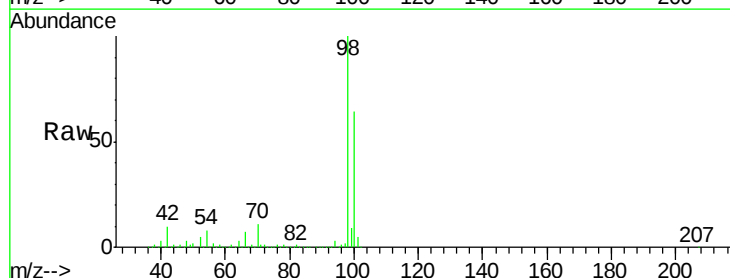
Acq: 16 Dec 2020 04:58

Tgt Ion: 98 Resp: 632047

Ion Ratio Lower Upper

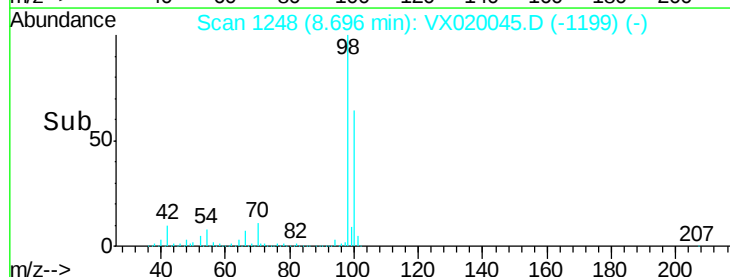
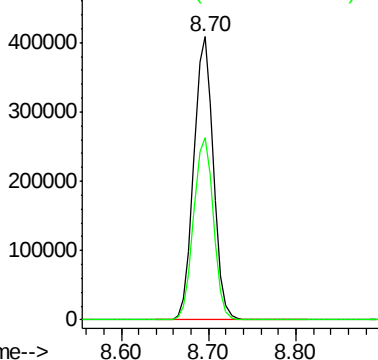
98 100

100 65.3 51.9 77.9

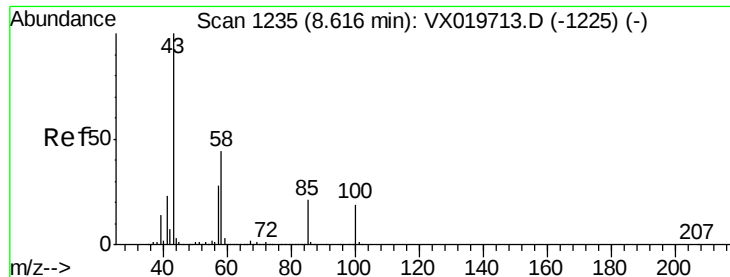


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



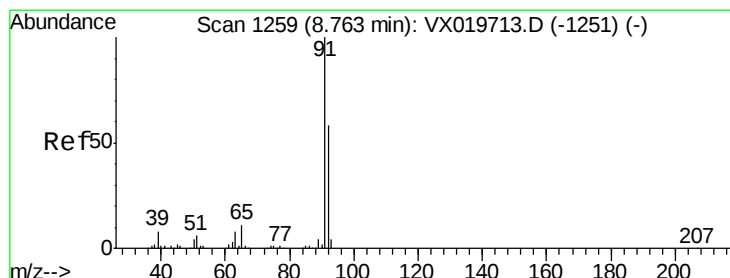
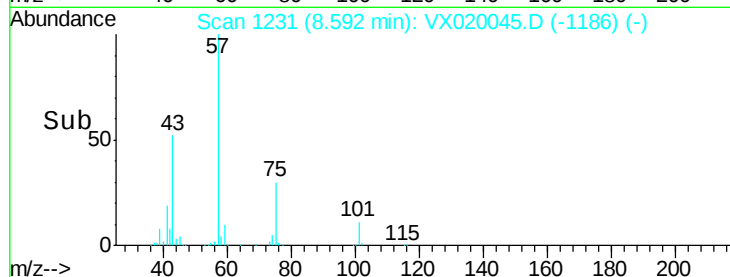
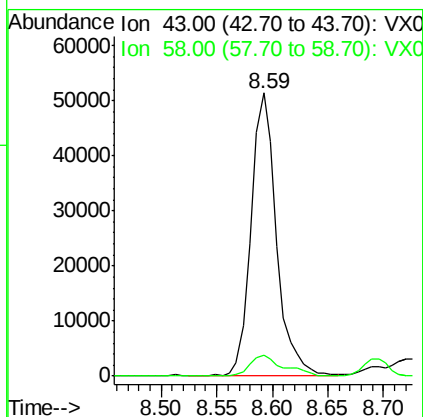
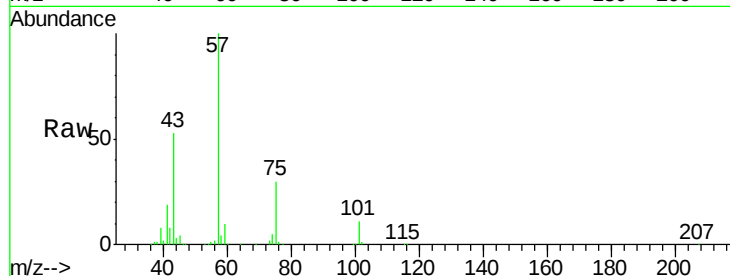
Time-->



#51
 4-Methyl-2-Pentanone
 Concen: 17.646 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX020045.D
 Acq: 16 Dec 2020 04:58

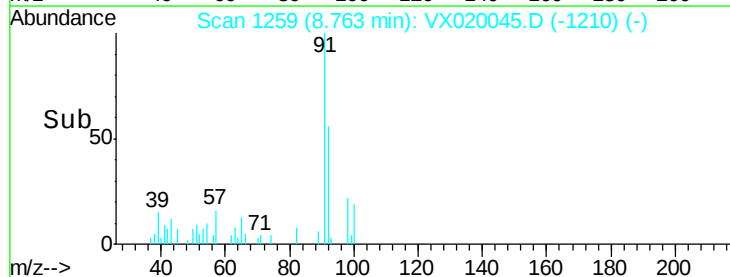
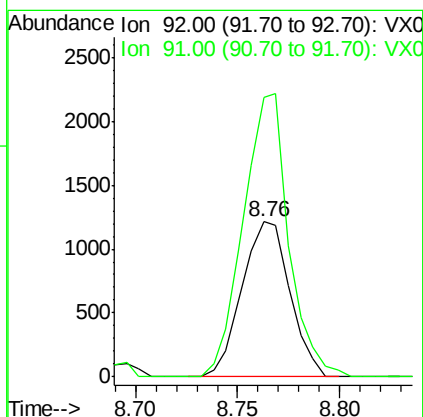
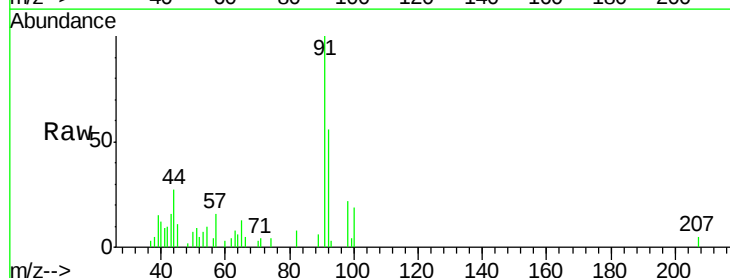
Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-C-TOP

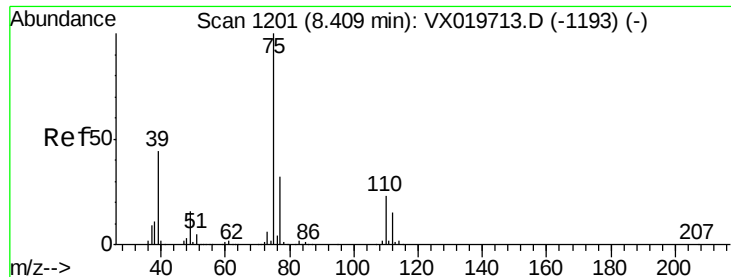
Tgt Ion: 43 Resp: 81325
 Ion Ratio Lower Upper
 43 100
 58 9.8 35.4 53.0#



#52
 Toluene
 Concen: 0.226 ug/l
 RT: 8.76 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VX020045.D
 Acq: 16 Dec 2020 04:58

Tgt Ion: 92 Resp: 1982
 Ion Ratio Lower Upper
 92 100
 91 173.3 137.1 205.7



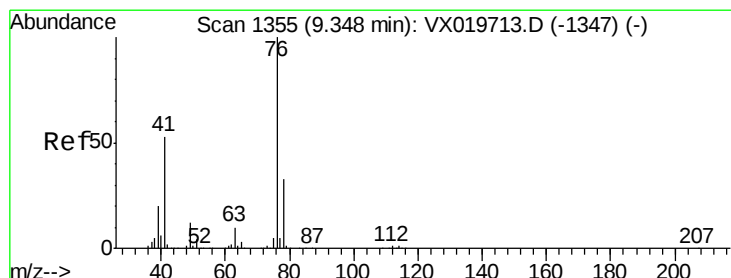
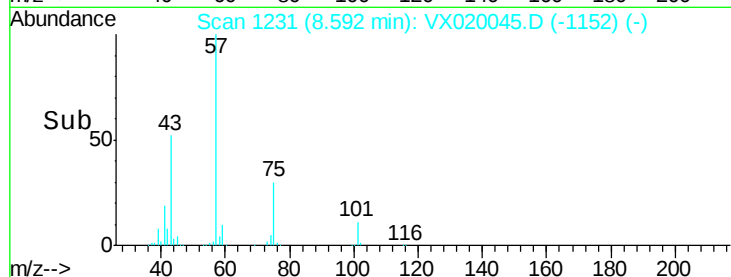
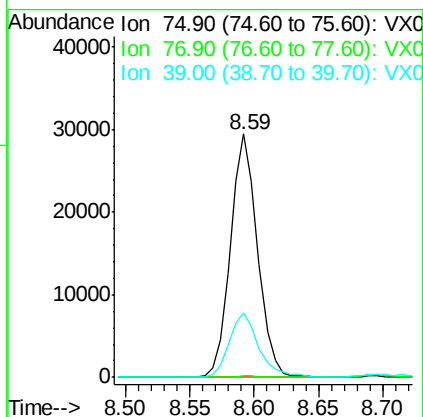
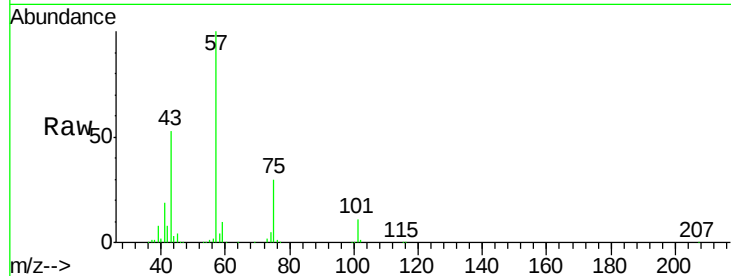


#54

cis-1,3-Dichloropropene
 Concen: 7.619 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX020045.D
 Acq: 16 Dec 2020 04:58

Instrument :
 MSVOA_X
 ClientSampleId :
 TR2-C-TOP

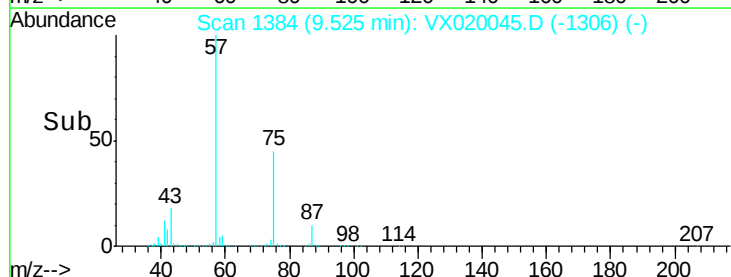
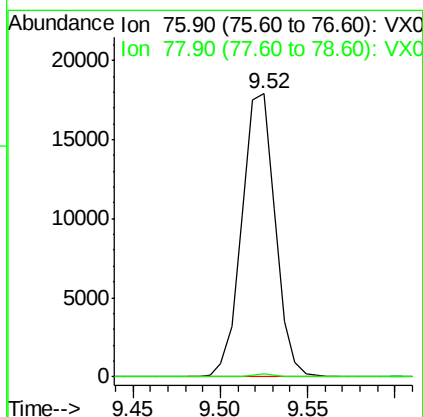
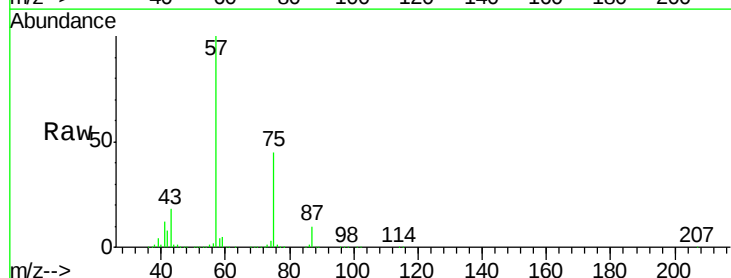
Tgt Ion: 75 Resp: 43211
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 26.5 35.1 52.7#

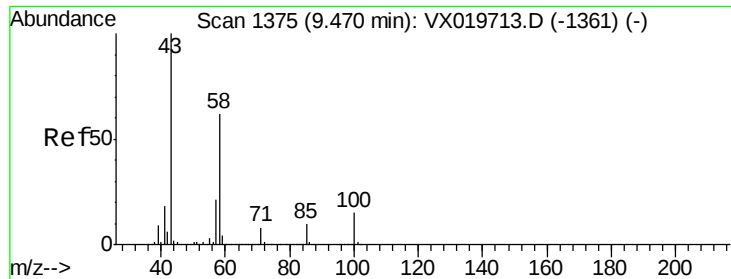


#57

1,3-Dichloropropane
 Concen: 3.938 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX020045.D
 Acq: 16 Dec 2020 04:58

Tgt Ion: 76 Resp: 23809
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.2 39.2#

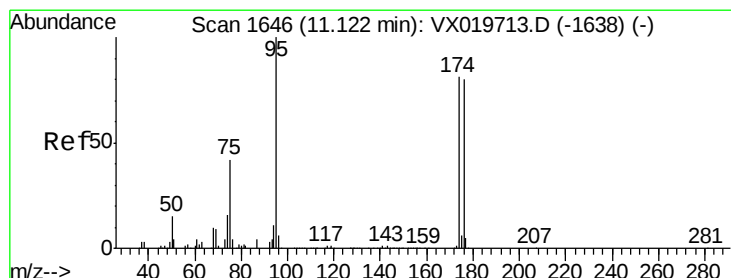
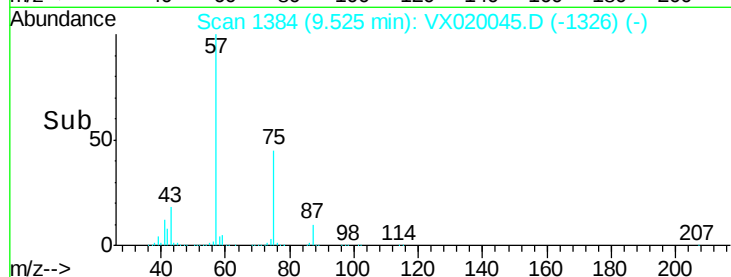
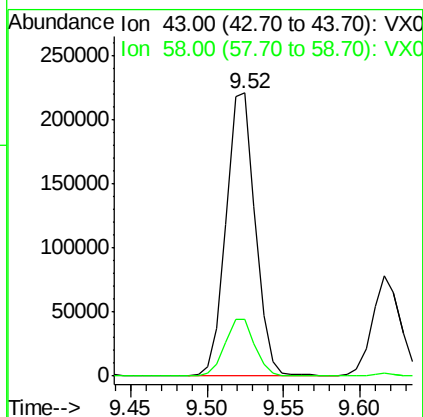
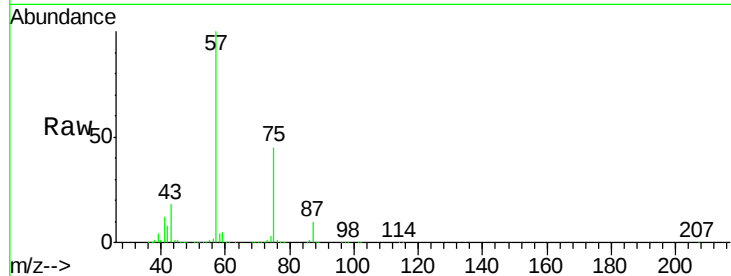




#59
2-Hexanone
Concen: 81.783 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX020045.D
Acq: 16 Dec 2020 04:58

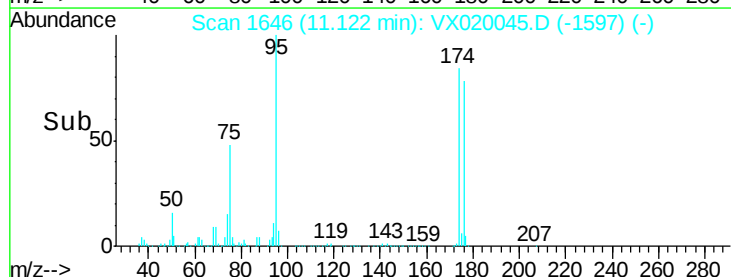
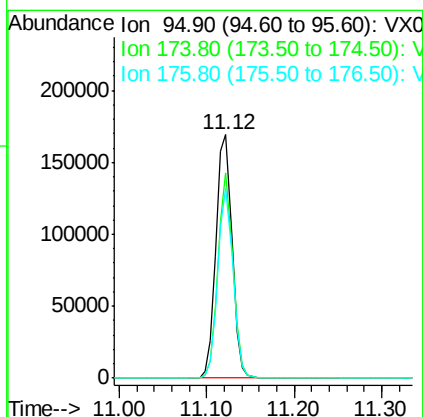
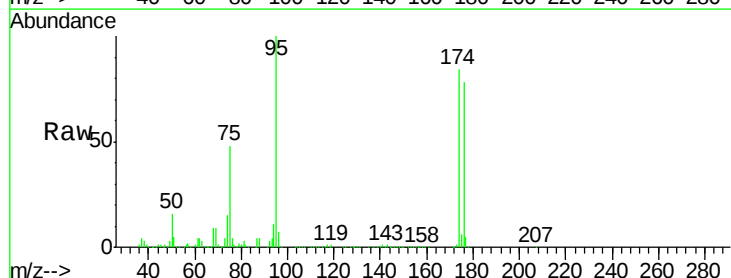
Instrument :
MSVOA_X
ClientSampleId :
TR2-C-TOP

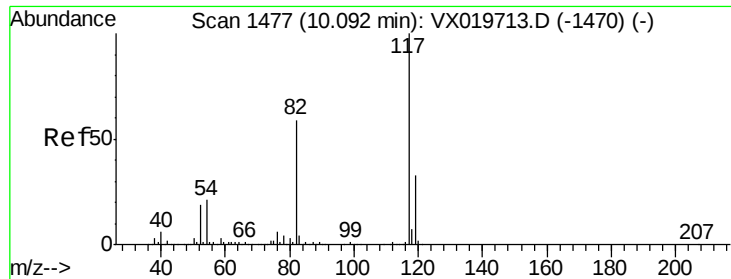
Tgt Ion: 43 Resp: 292151
Ion Ratio Lower Upper
43 100
58 20.5 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 44.832 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX020045.D
Acq: 16 Dec 2020 04:58

Tgt Ion: 95 Resp: 214250
Ion Ratio Lower Upper
95 100
174 78.1 0.0 154.6
176 73.7 0.0 155.8

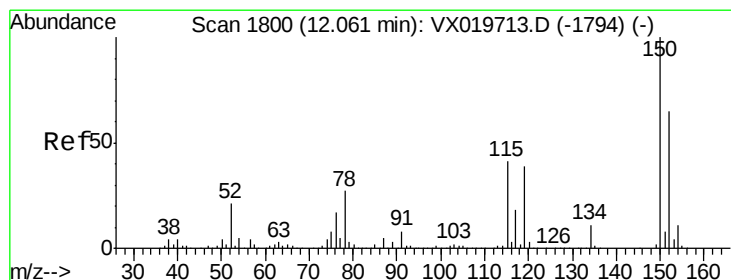
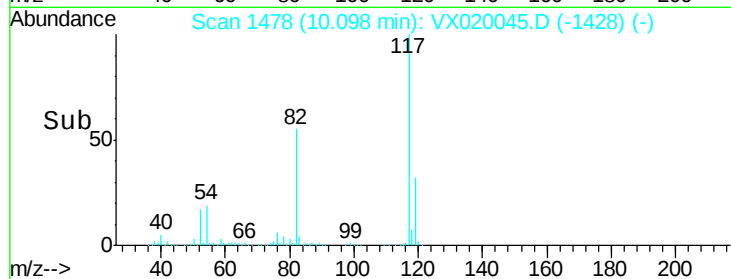
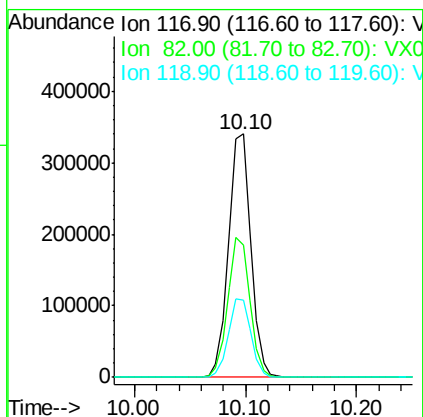
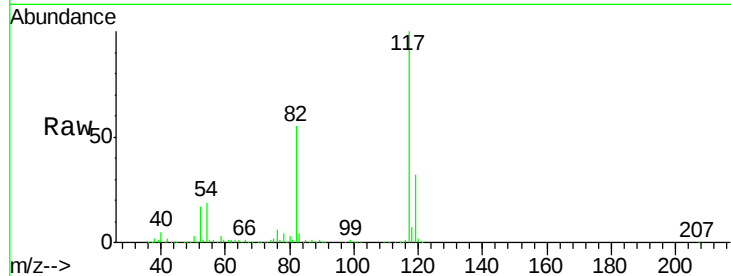




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX020045.D
Acq: 16 Dec 2020 04:58

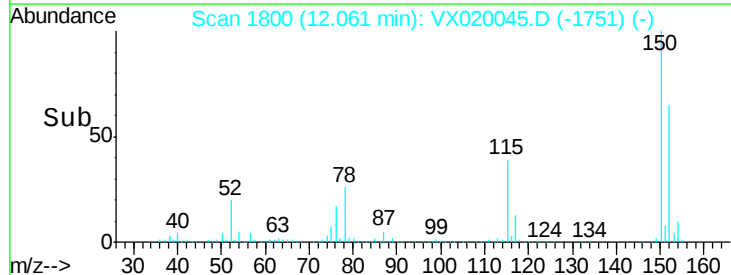
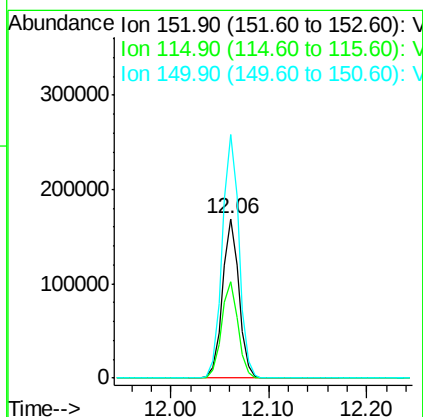
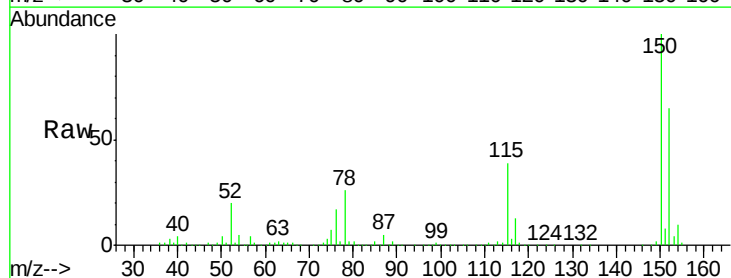
Instrument :
MSVOA_X
ClientSampleId :
TR2-C-TOP

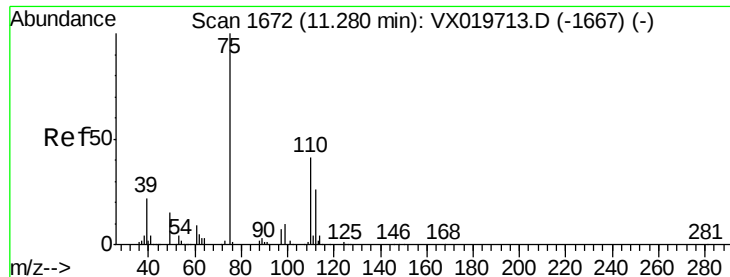
Tgt Ion:117 Resp: 473850
Ion Ratio Lower Upper
117 100
82 54.5 47.4 71.2
119 31.8 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX020045.D
Acq: 16 Dec 2020 04:58

Tgt Ion:152 Resp: 195808
Ion Ratio Lower Upper
152 100
115 60.8 41.1 123.3
150 156.7 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 23.858 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

Instrument :

MSVOA_X

ClientSampleId :

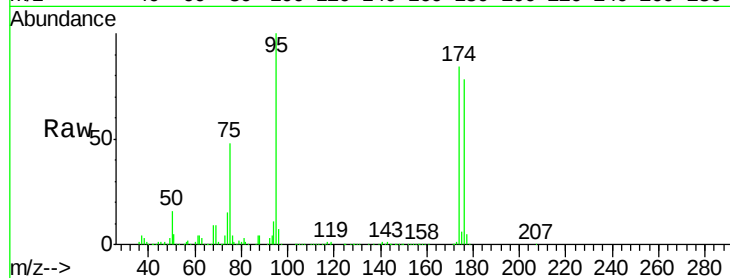
TR2-C-TOP

Tgt Ion: 75 Resp: 104774

Ion Ratio Lower Upper

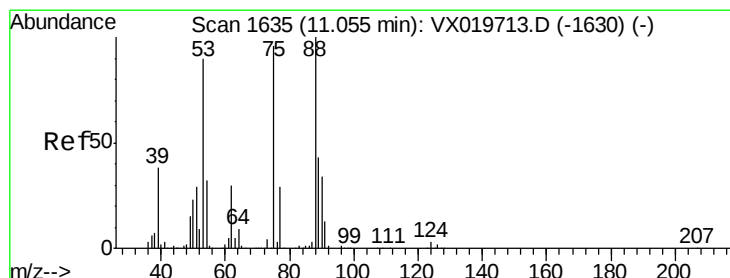
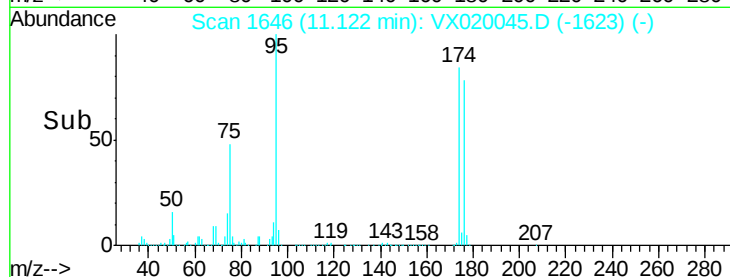
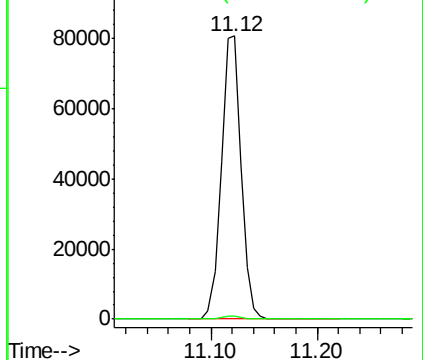
75 100

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: 68.968 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX020045.D

Acq: 16 Dec 2020 04:58

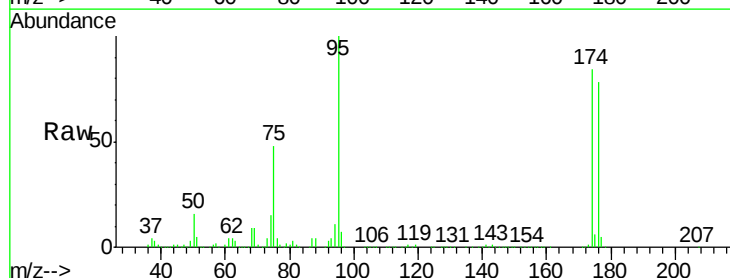
Tgt Ion: 75 Resp: 104774

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

