

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019584.D
 Acq On : 24 Nov 2020 05:05
 Operator : JC/MD
 Sample : L4848-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR5-2-TOP

Quant Time: Nov 24 06:58:47 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	331678	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.82	114	535805	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	453141	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	193092	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	197987	46.04	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	92.08%
35) Dibromofluoromethane	5.46	113	156901	46.65	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.30%
50) Toluene-d8	8.70	98	623349	47.70	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	95.40%
62) 4-Bromofluorobenzene	11.12	95	212167	45.12	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.24%

Target Compounds

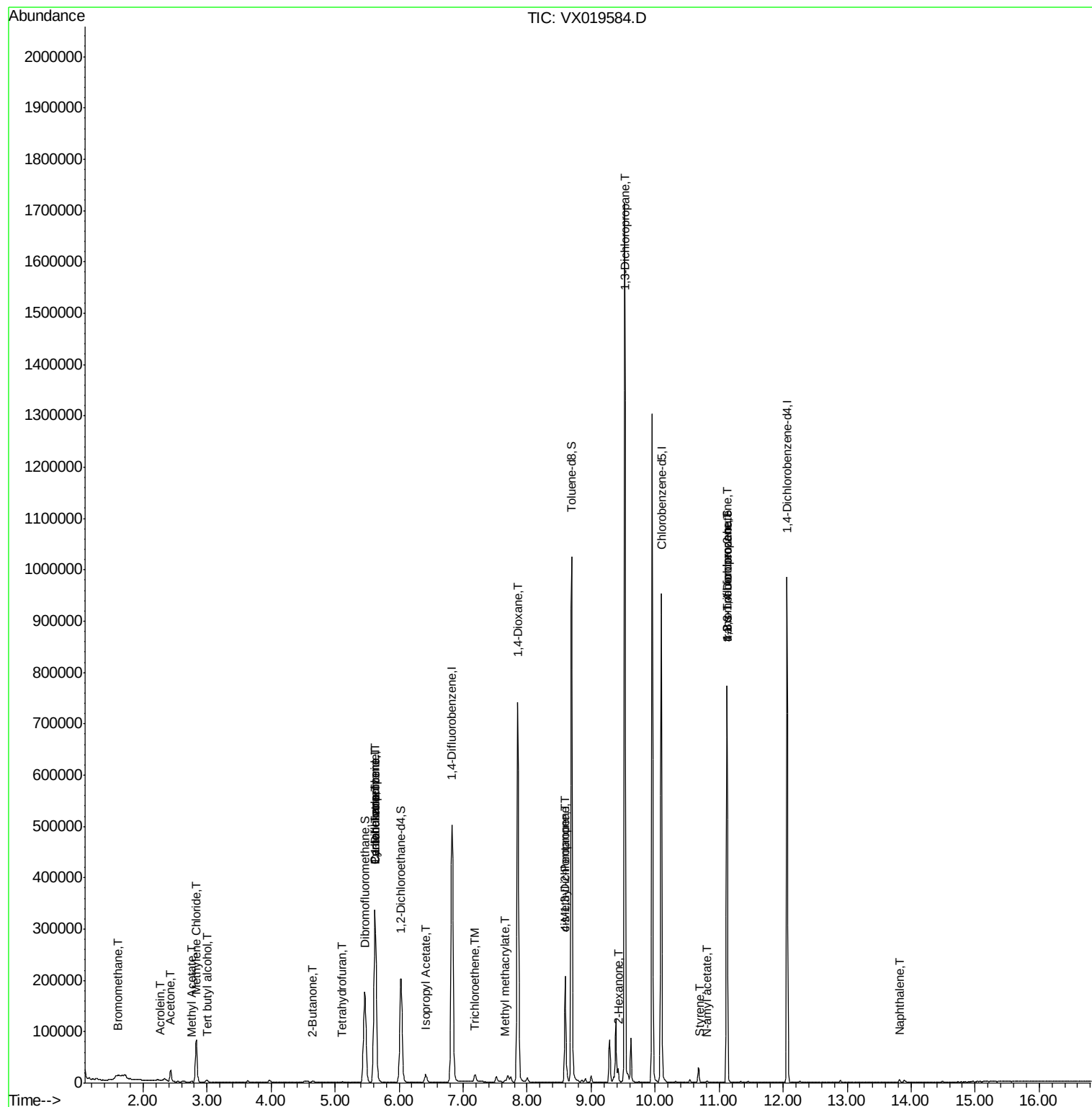
					Qvalue
5) Bromomethane	1.61	94	548	0.363 ug/l #	19
6) Chloroethane	1.74	64	662	Below Cal #	41
11) Tert butyl alcohol	2.99	59	3034	3.728 ug/l #	73
13) Acrolein	2.27	56	256	0.468 ug/l #	32
16) Acetone	2.43	43	25470	15.315 ug/l	99
18) Methyl Acetate	2.75	43	2920	1.342 ug/l	98
20) Methylene Chloride	2.83	84	41102	9.888 ug/l	99
25) 2-Butanone	4.64	43	3656	1.463 ug/l	95
29) Tetrahydrofuran	5.10	42	1591	0.998 ug/l	87
31) Cyclohexane	5.62	56	6249	1.117 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24515	4.880 ug/l #	50
38) Carbon Tetrachloride	5.62	117	31838	6.548 ug/l #	16
43) Isopropyl Acetate	6.42	43	21712	2.739 ug/l	98
44) Trichloroethene	7.18	130	3639	0.900 ug/l	91
48) Methyl methacrylate	7.66	41	5437	1.465 ug/l #	9
49) 1,4-Dioxane	7.85	88	68	0.807 ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	71749	15.521 ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	38000	6.283 ug/l #	59
57) 1,3-Dichloropropane	9.52	76	15672	2.434 ug/l #	44
59) 2-Hexanone	9.42	43	15705	4.480 ug/l #	20
70) Styrene	10.70	104	78	1.653 ug/l #	12
74) N-amyl acetate	10.81	43	1122	0.224 ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	102188	24.250 ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	102188	64.186 ug/l #	12
95) Naphthalene	13.82	128	3201	2.393 ug/l	99

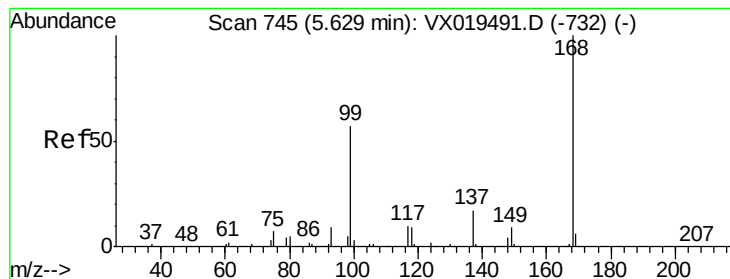
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 24 06:58:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampled :

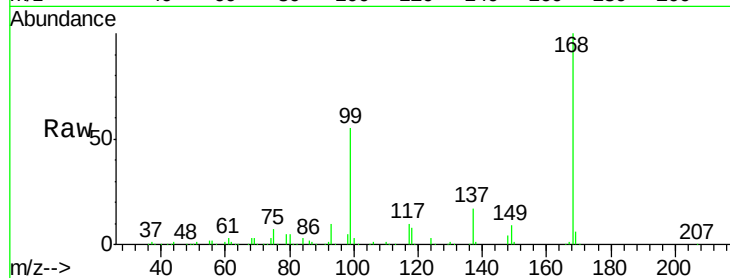
TR5-2-TOP

Tot Ion:168 Resp: 331678

Ion Ratio Lower Upper

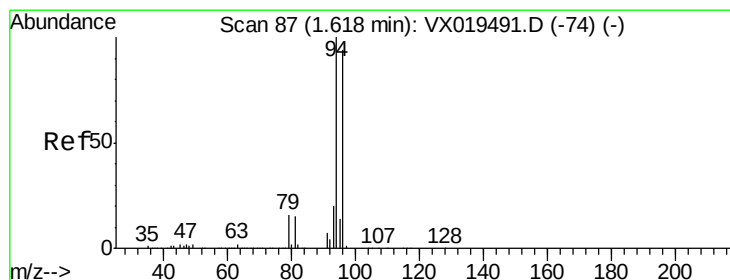
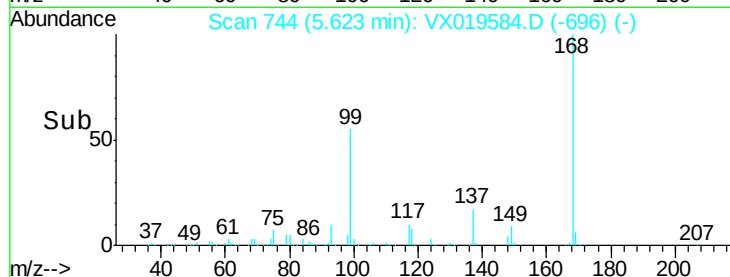
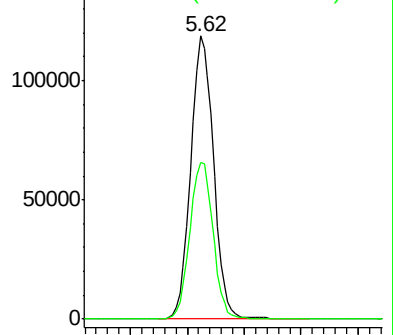
168 100

99 55.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.363 ug/l

RT: 1.61 min Scan# 86

Delta R.T. -0.01 min

Lab File: VX019584.D

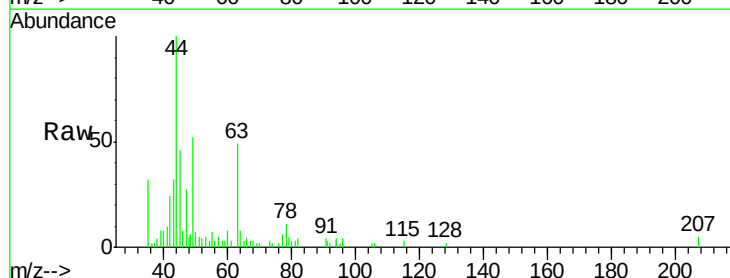
Acq: 24 Nov 2020 05:05

Tgt Ion: 94 Resp: 548

Ion Ratio Lower Upper

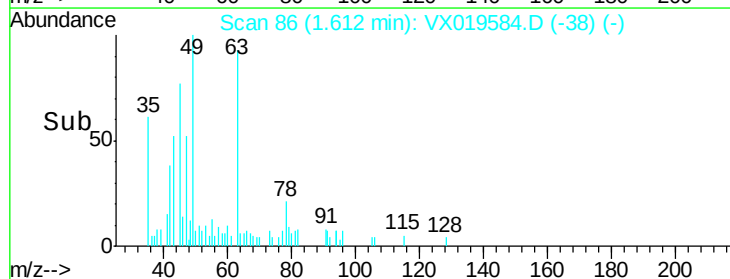
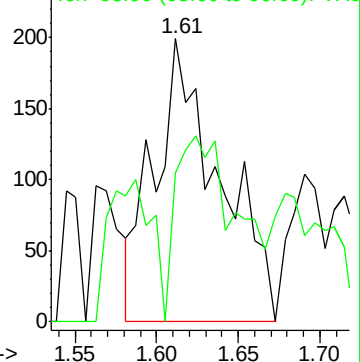
94 100

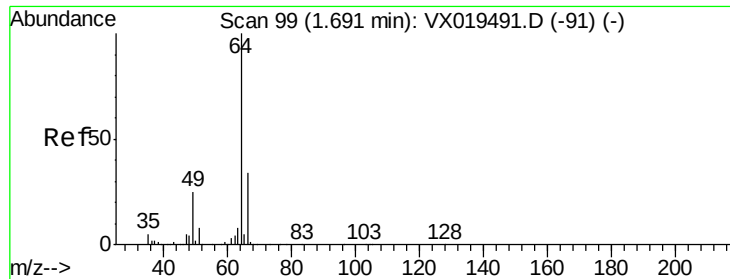
96 15.6 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 107

Delta R.T. 0.05 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampled :

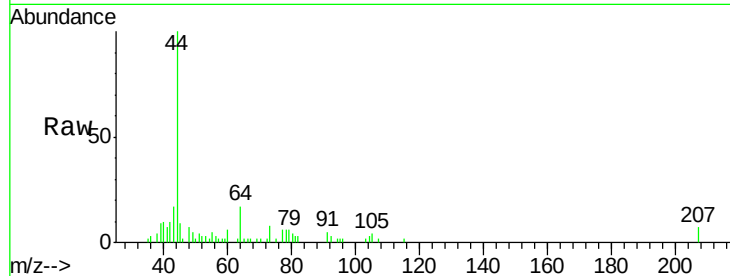
TR5-2-TOP

Tot Ion: 64 Resp: 662

Ion Ratio Lower Upper

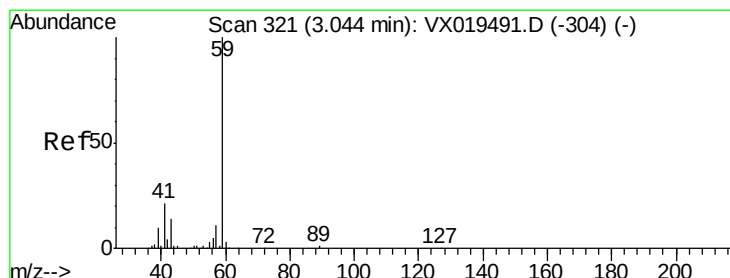
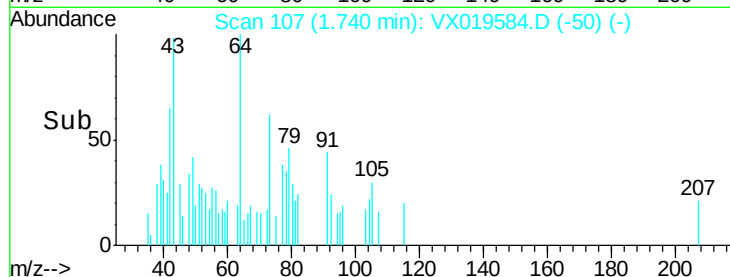
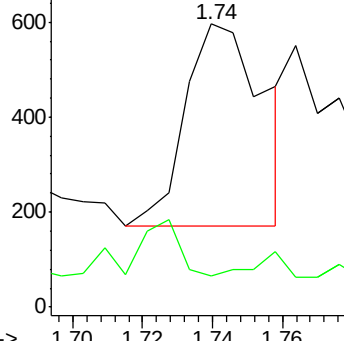
64 100

66 0.0 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: 3.728 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.05 min

Lab File: VX019584.D

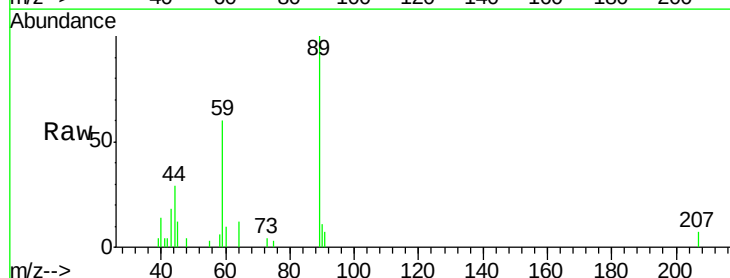
Acq: 24 Nov 2020 05:05

Tgt Ion: 59 Resp: 3034

Ion Ratio Lower Upper

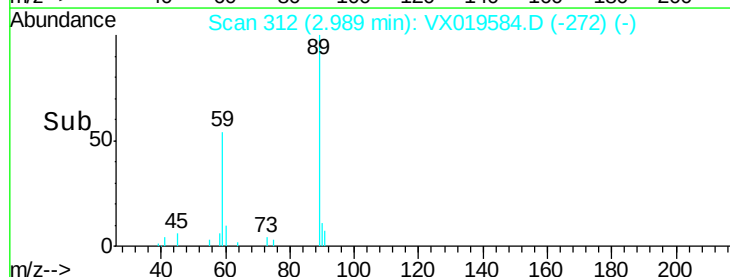
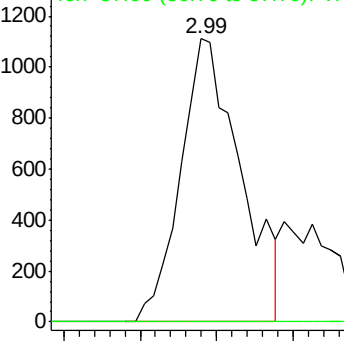
59 100

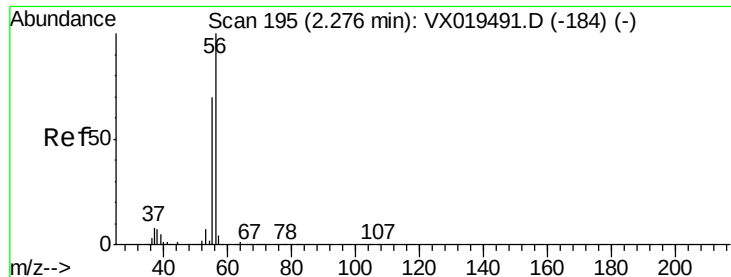
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.468 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampled :

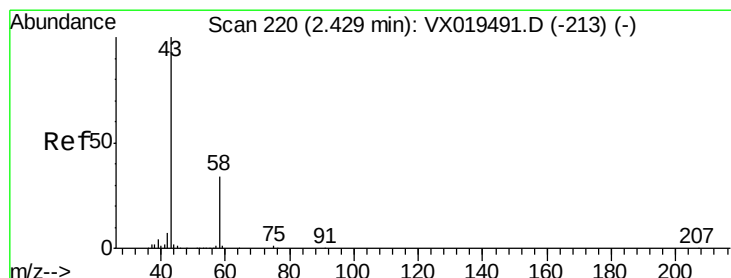
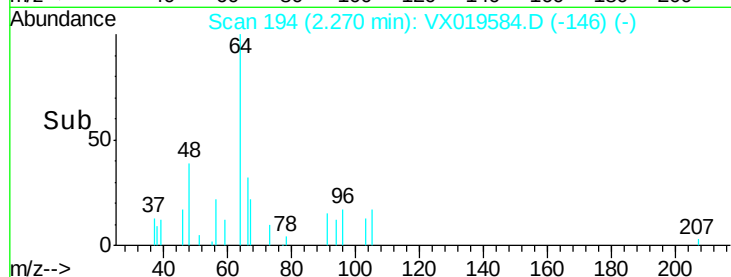
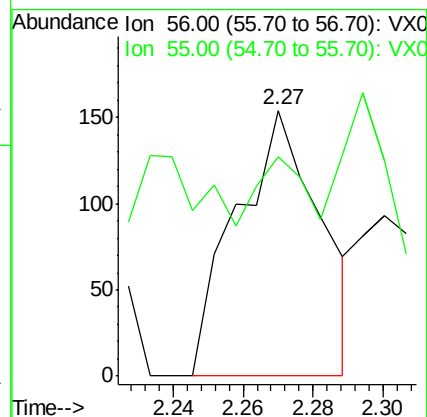
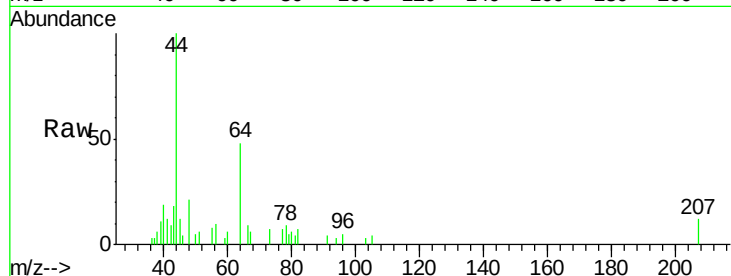
TR5-2-TOP

Tot Ion: 56 Resp: 256

Ion Ratio Lower Upper

56 100

55 13.7 55.5 83.3#



#16

Acetone

Concen: 15.315 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019584.D

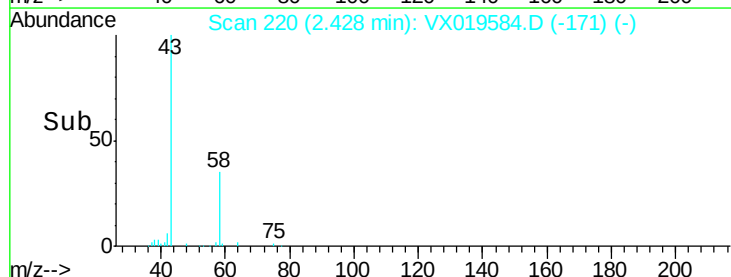
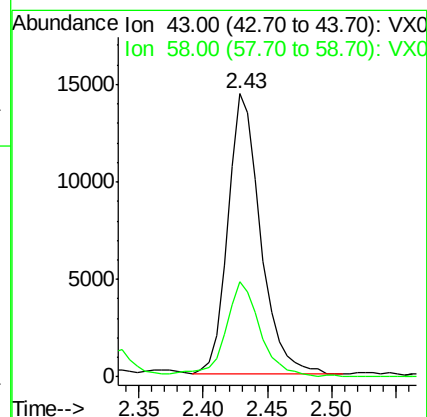
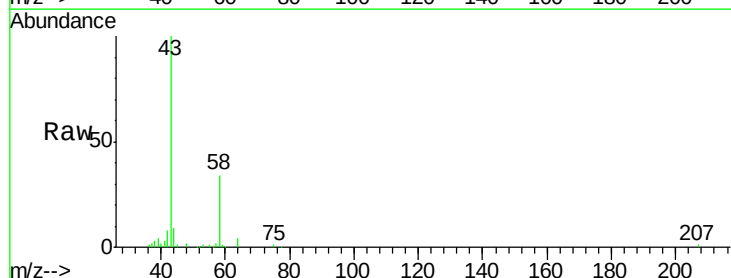
Acq: 24 Nov 2020 05:05

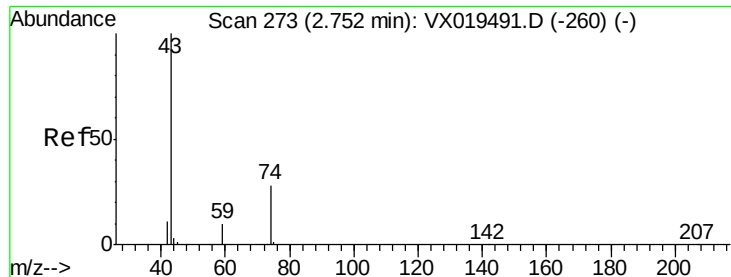
Tgt Ion: 43 Resp: 25470

Ion Ratio Lower Upper

43 100

58 33.8 27.4 41.2

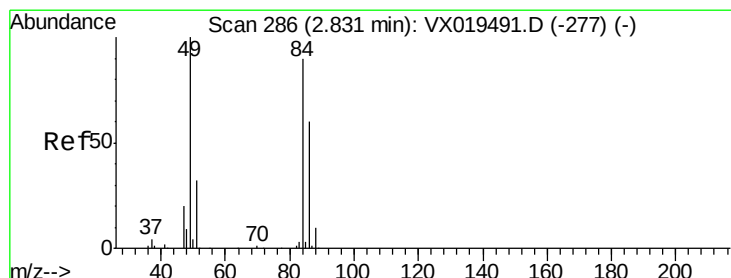
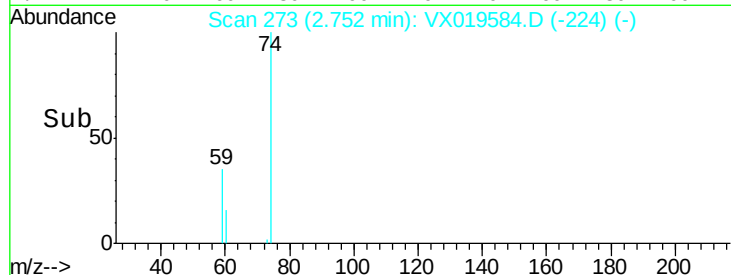
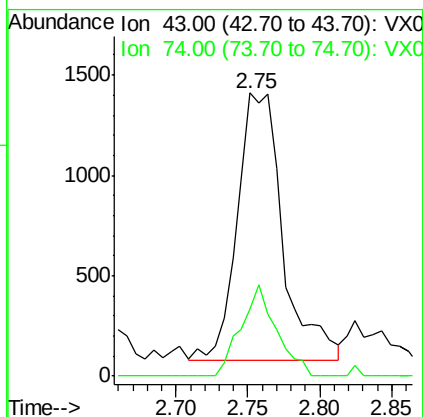
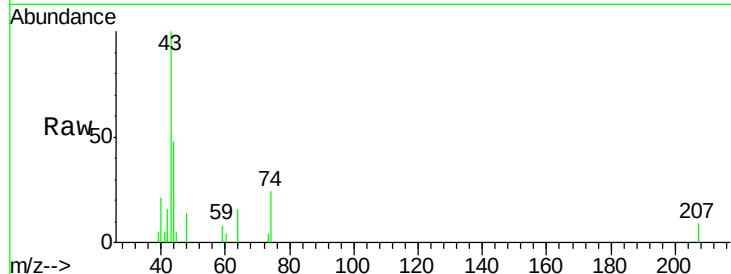




#18
Methvl Acetate
Concen: 1.342 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

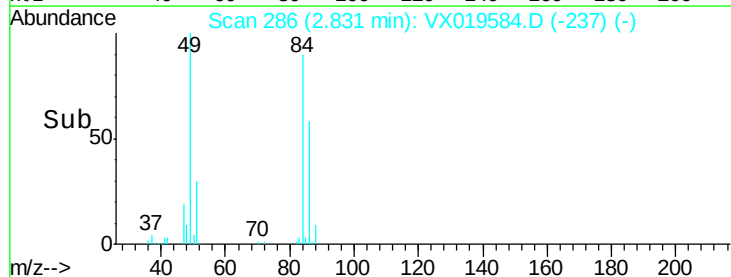
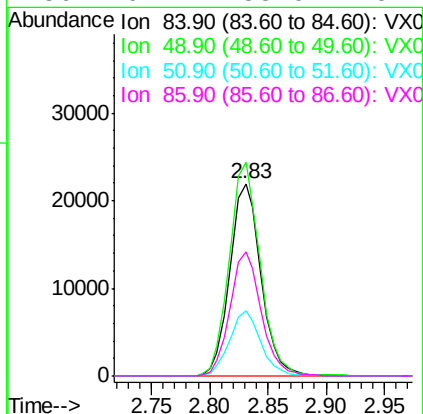
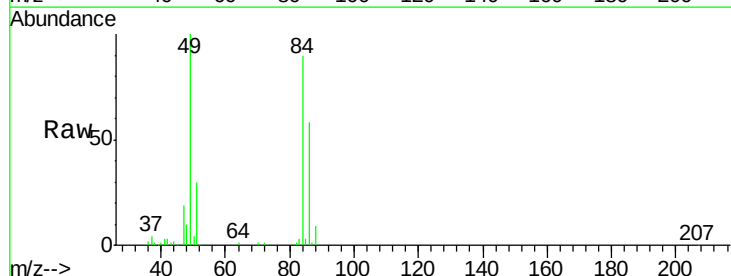
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-TOP

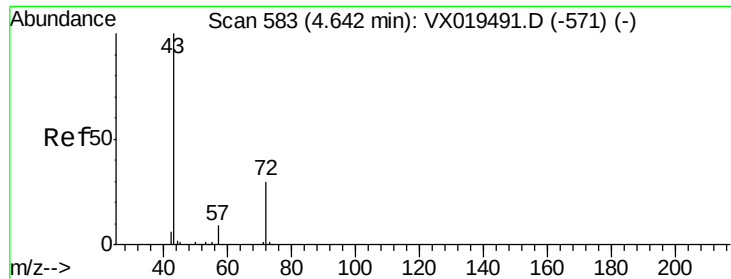
Tot Ion: 43 Resp: 2920
Ion Ratio Lower Upper
43 100
74 26.7 22.2 33.4



#20
Methylene Chloride
Concen: 9.888 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

Tgt Ion: 84 Resp: 41102
Ion Ratio Lower Upper
84 100
49 110.9 88.5 132.7
51 33.7 28.0 42.0
86 64.4 53.0 79.4





#25

2-Butanone

Concen: 1.463 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampled :

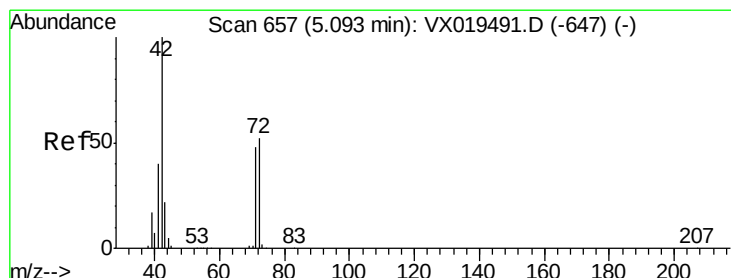
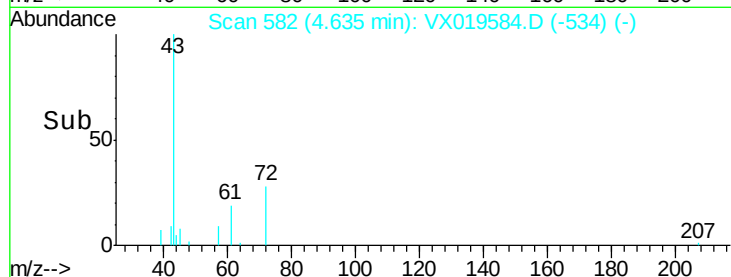
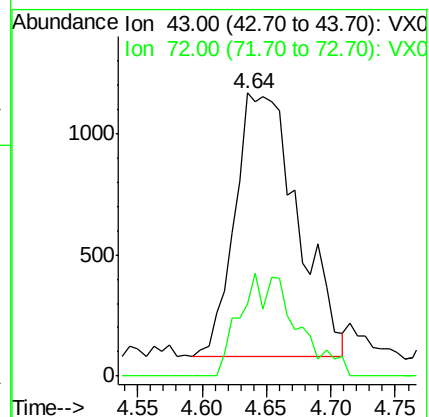
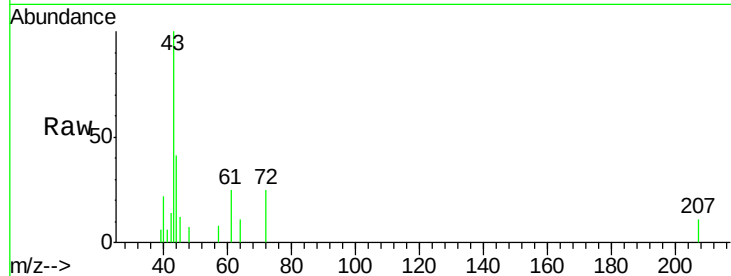
TR5-2-TOP

Tot Ion: 43 Resp: 3656

Ion Ratio Lower Upper

43 100

72 27.2 24.0 36.0



#29

Tetrahydrofuran

Concen: 0.998 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

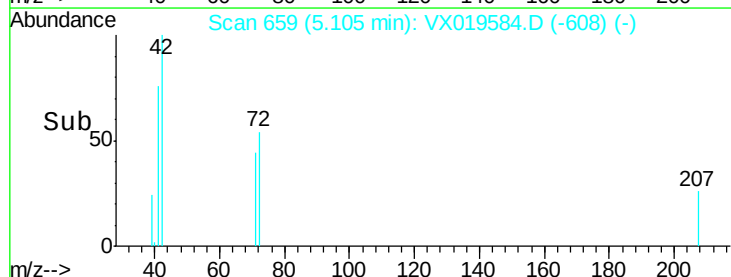
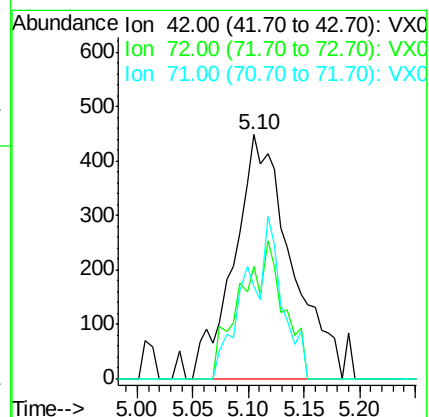
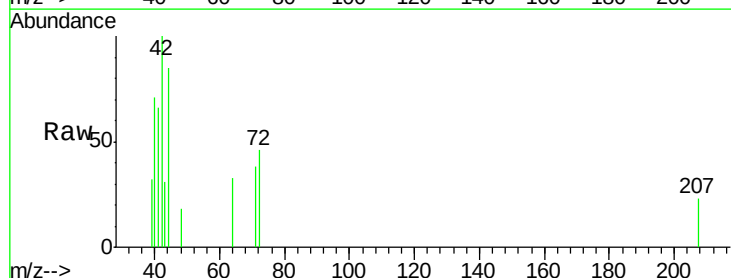
Tgt Ion: 42 Resp: 1591

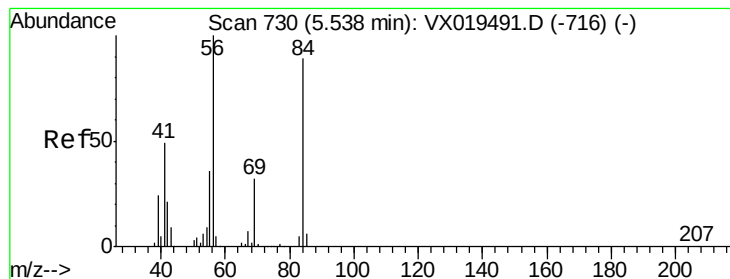
Ion Ratio Lower Upper

42 100

72 42.6 42.6 63.8

71 41.7 39.0 58.6





#31

Cyclohexane

Concen: 1.117 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.09 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampled :

TR5-2-TOP

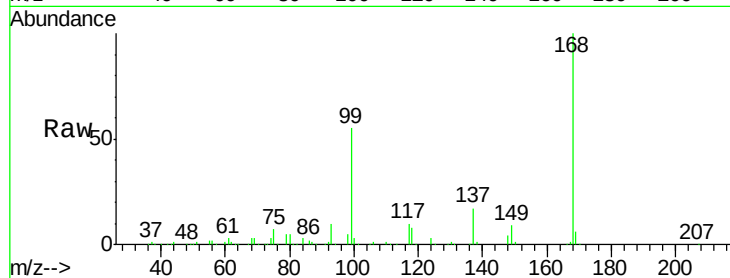
Tot Ion: 56 Resp: 6249

Ion Ratio Lower Upper

56 100

69 186.8 25.5 38.3#

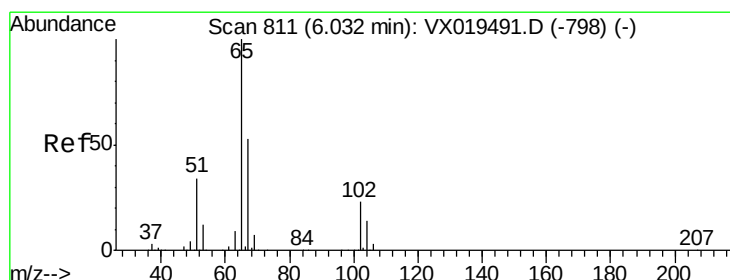
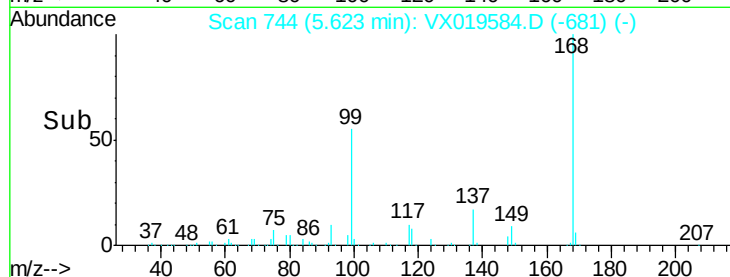
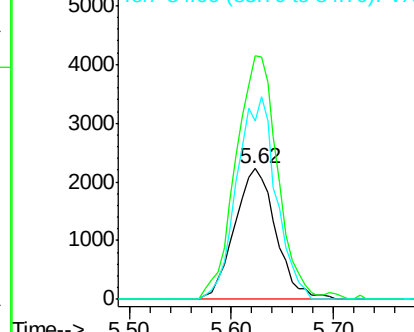
84 136.8 71.1 106.7#



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: 46.038 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX019584.D

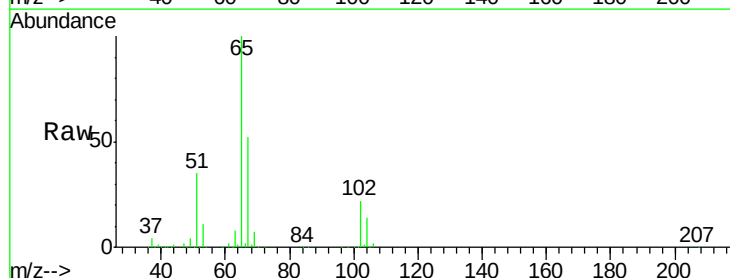
Acq: 24 Nov 2020 05:05

Tgt Ion: 65 Resp: 197987

Ion Ratio Lower Upper

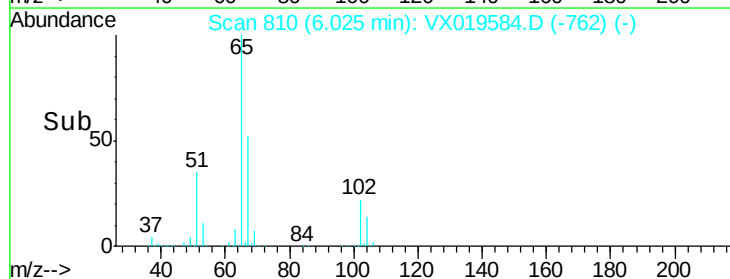
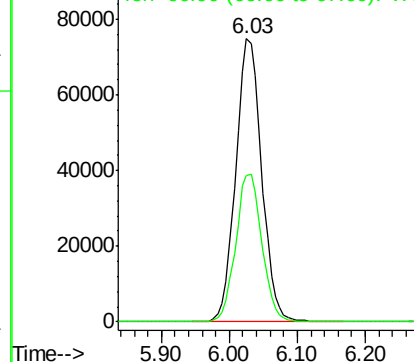
65 100

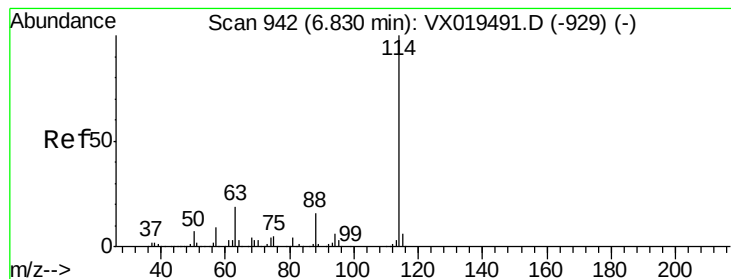
67 52.6 0.0 105.0



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: 6.82 min Scan# 941

Delta R.T. -0.01 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

TR5-2-TOP

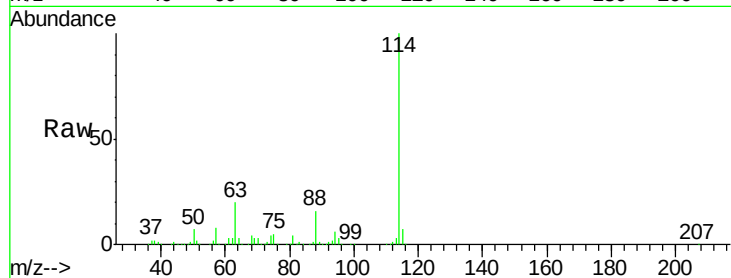
Tot Ion:114 Resp: 535805

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.8

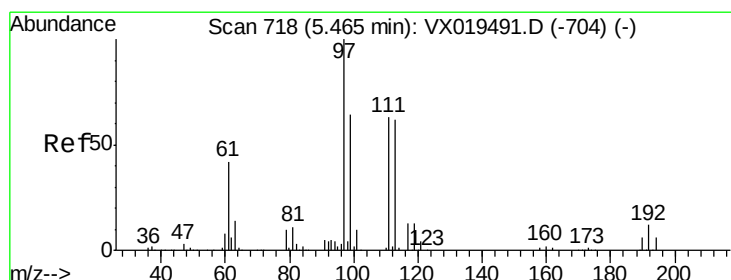
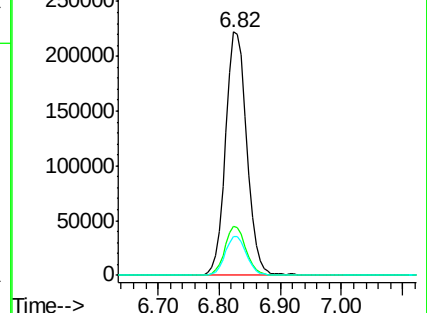
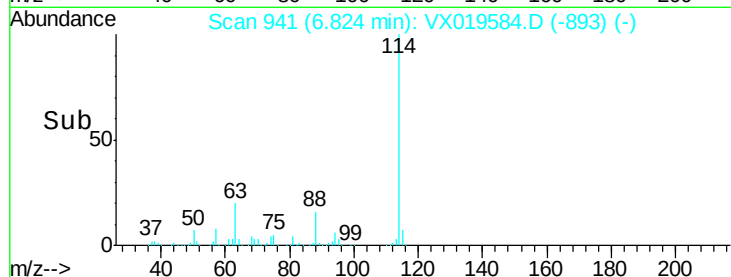
88 15.8 0.0 31.6



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: 46.652 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

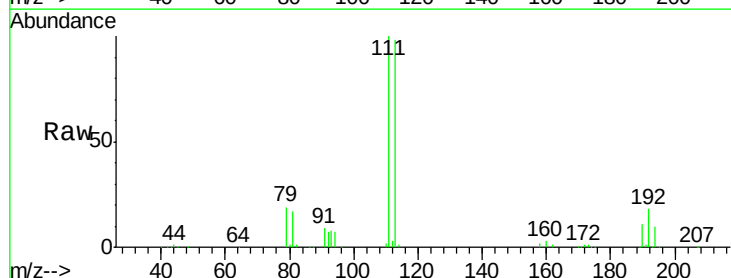
Tgt Ion:113 Resp: 156901

Ion Ratio Lower Upper

113 100

111 102.9 81.5 122.3

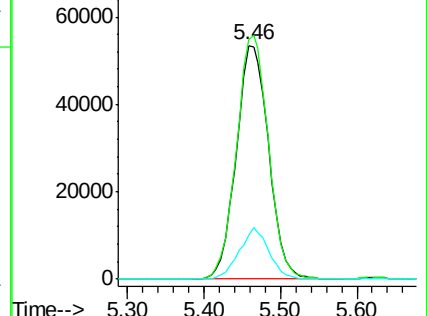
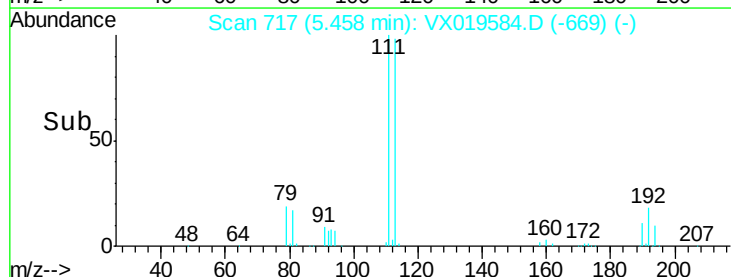
192 20.1 16.2 24.2

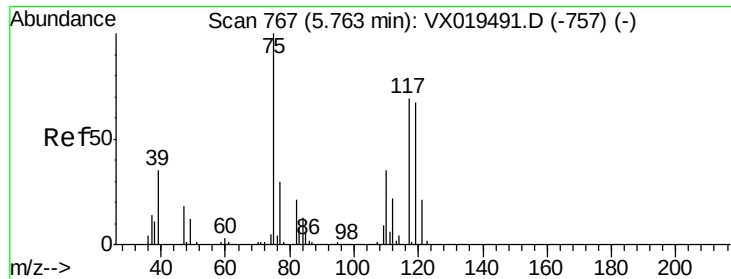


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

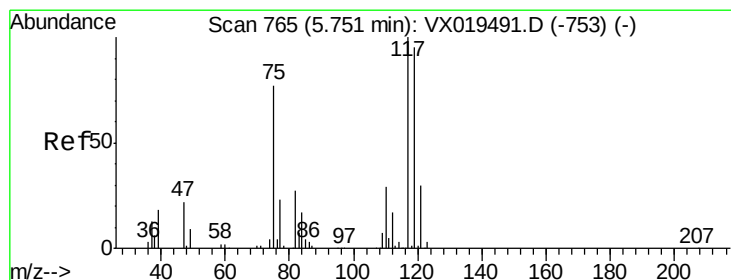
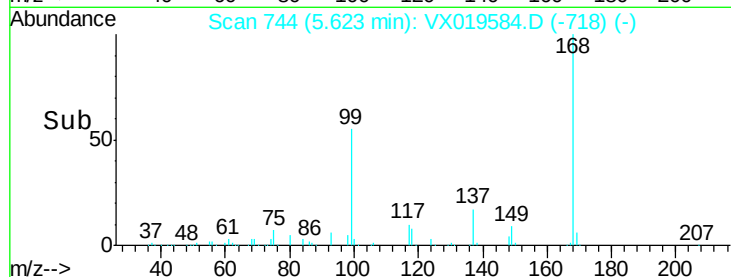
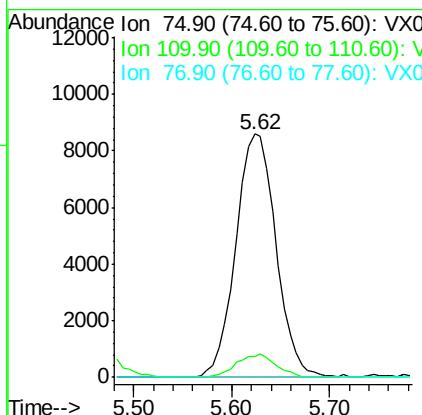
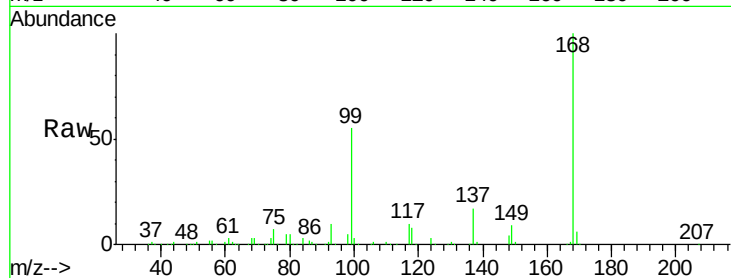




#36
 1,1-Dichloropropene
 Concen: 4.880 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019584.D
 Acq: 24 Nov 2020 05:05

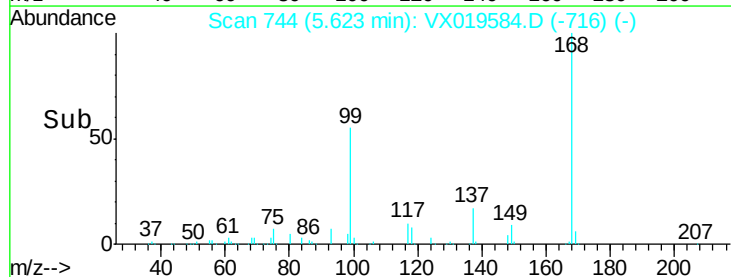
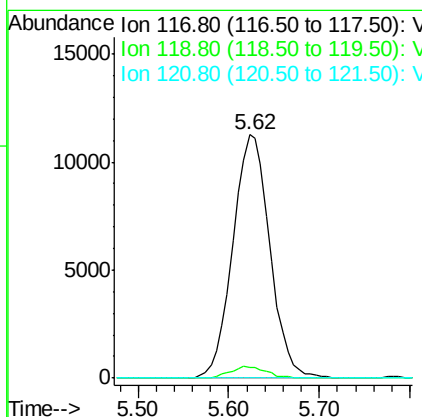
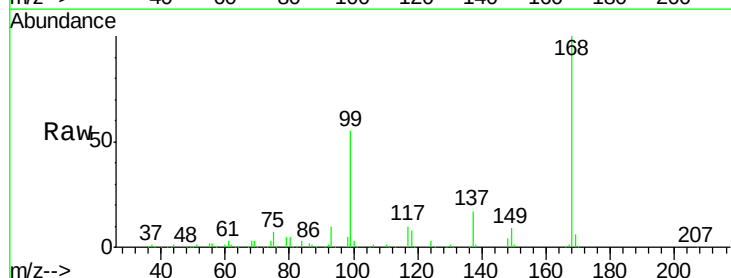
Instrument :
 MSVOA_X
 ClientSampleId :
 TR5-2-TOP

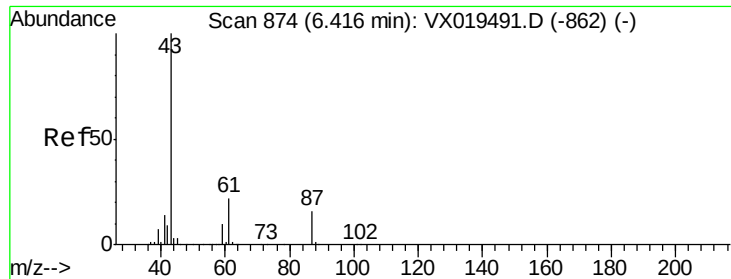
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.1	54.3#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 6.548 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019584.D
 Acq: 24 Nov 2020 05:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	75.9	113.9#
121	0.0	24.0	36.0#





#43

Isopropyl Acetate

Concen: 2.739 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampled :

TR5-2-TOP

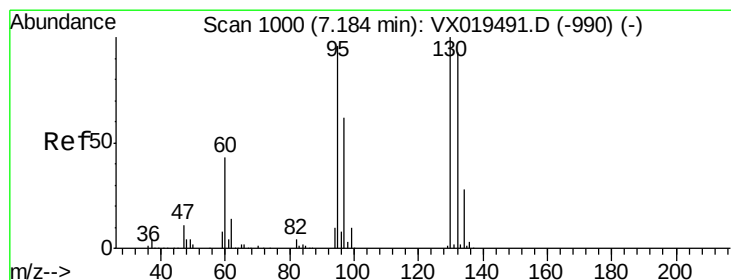
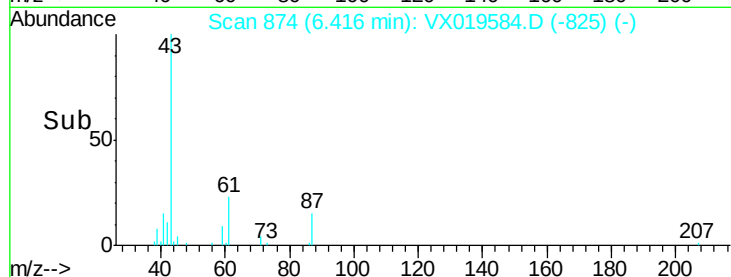
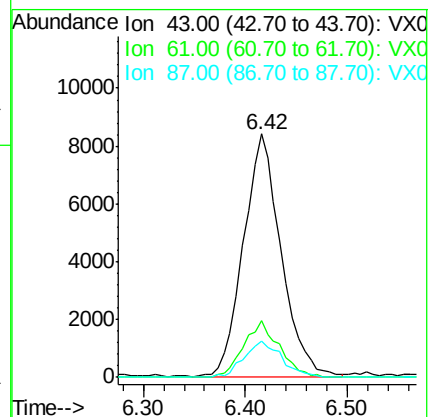
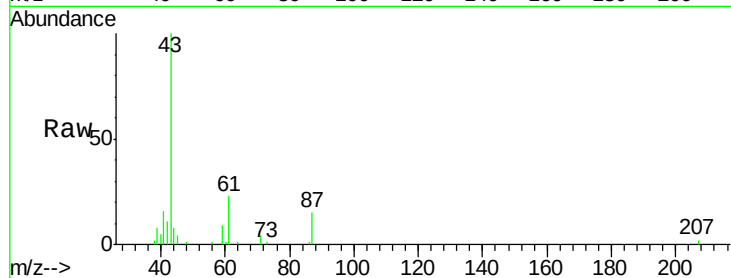
Tot Ion: 43 Resp: 21712

Ion Ratio Lower Upper

43 100

61 21.8 18.2 27.2

87 14.8 12.6 18.8



#44

Trichloroethene

Concen: 0.900 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019584.D

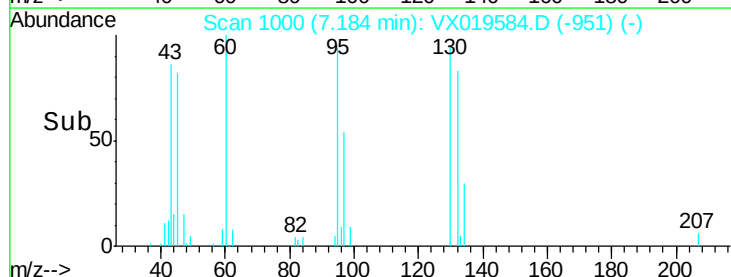
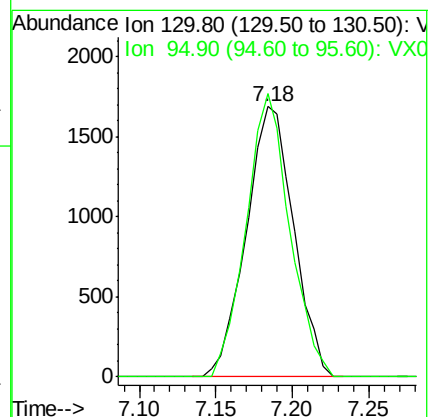
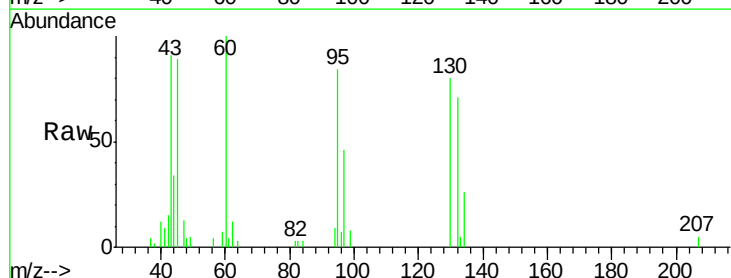
Acq: 24 Nov 2020 05:05

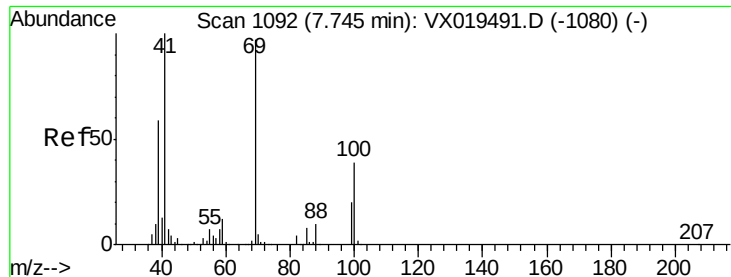
Tgt Ion: 130 Resp: 3639

Ion Ratio Lower Upper

130 100

95 104.7 0.0 191.2

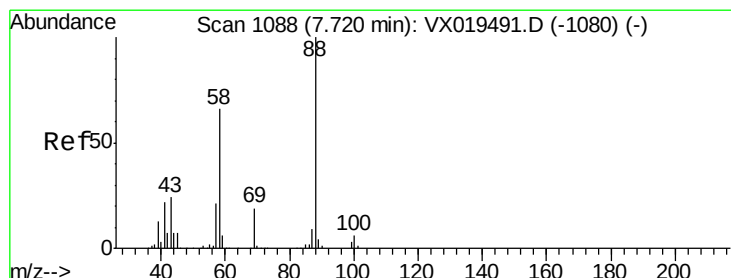
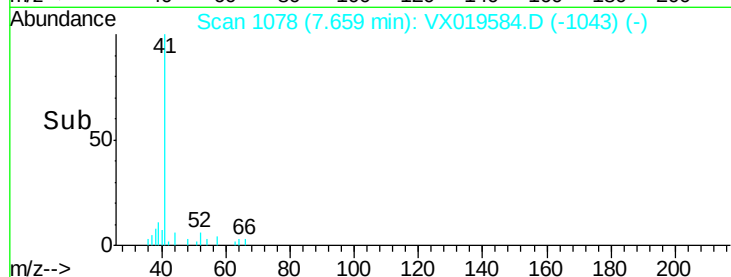
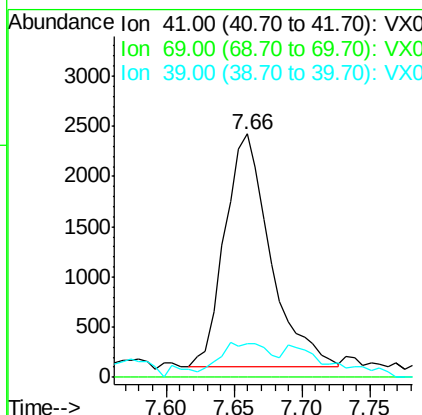
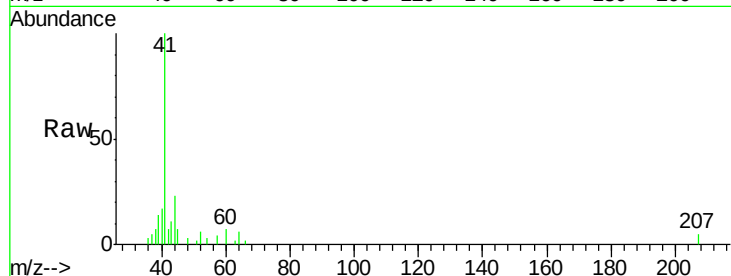




#48
Methvl methacrylate
Concen: 1.465 ug/l
RT: 7.66 min Scan# 1078
Delta R.T. -0.09 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

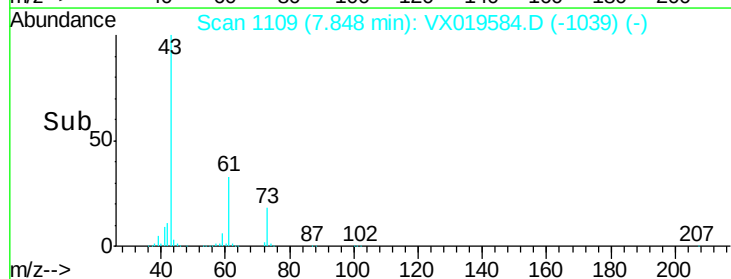
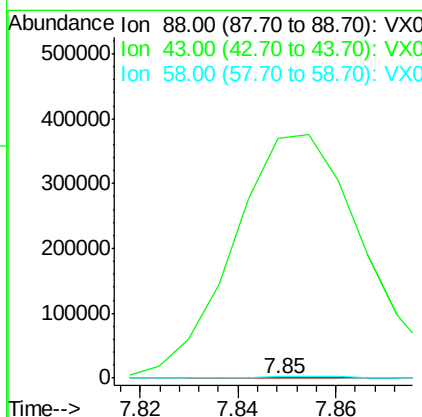
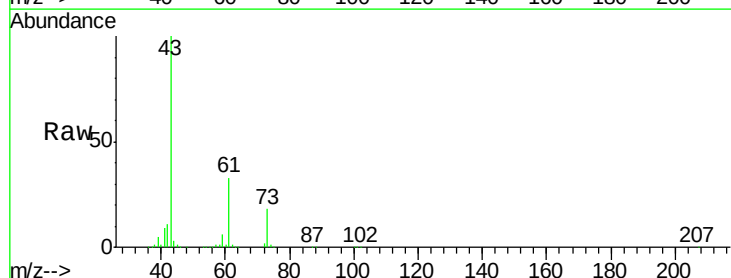
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-TOP

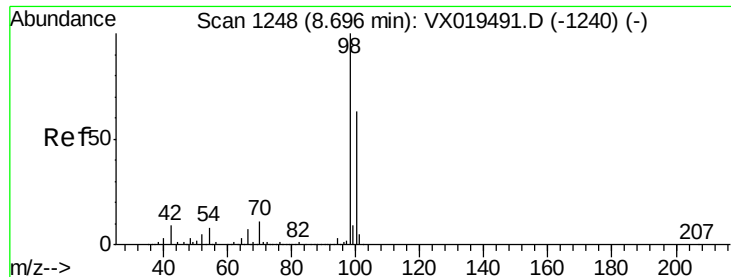
Tot Ion: 41 Resp: 5437
Ion Ratio Lower Upper
41 100
69 0.0 77.0 115.6#
39 0.0 45.6 68.4#



#49
1,4-Dioxane
Concen: 0.807 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.13 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 1038888.2 23.8 35.6#
58 5280.9 54.2 81.2#

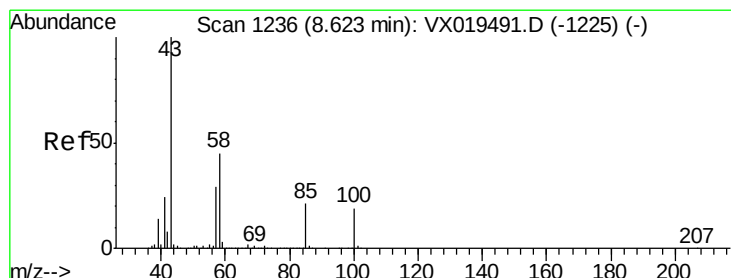
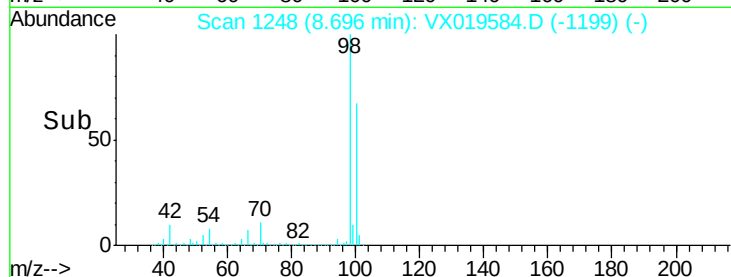
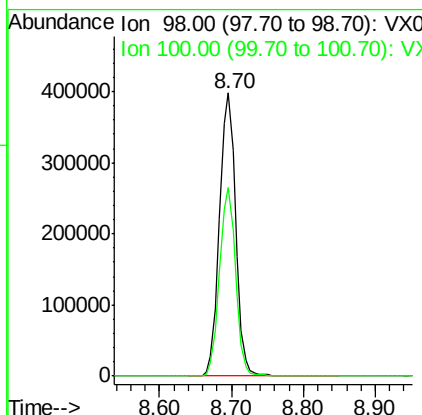
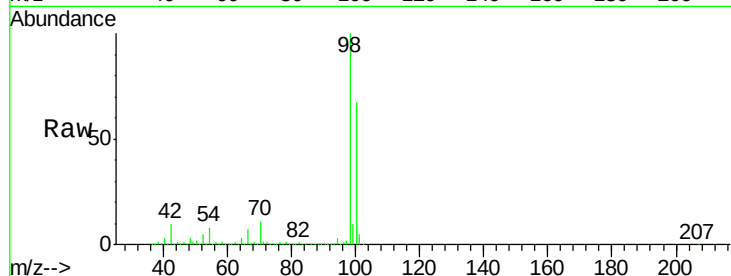




#50
Toluene-d8
Concen: 47.696 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

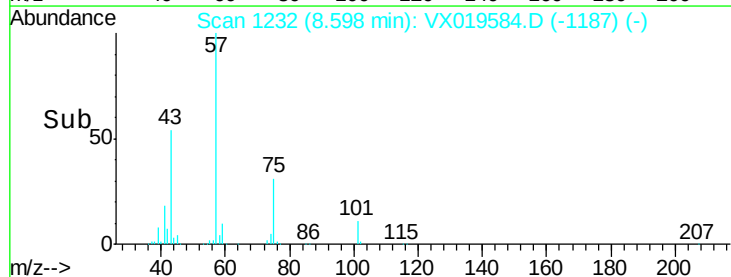
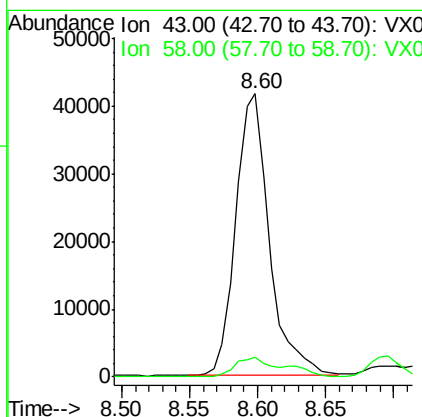
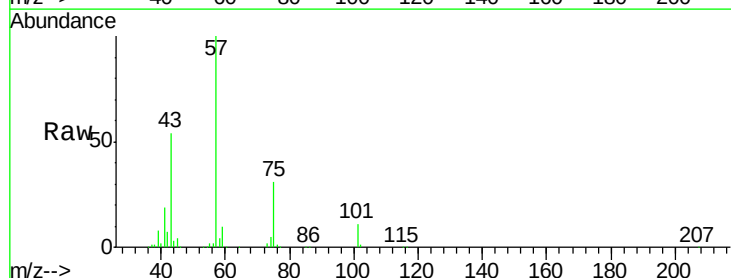
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-TOP

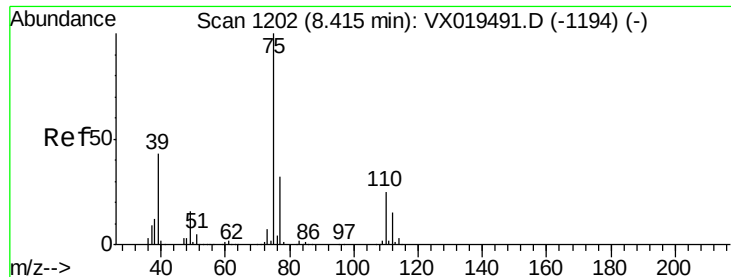
Tot Ion: 98 Resp: 623349
Ion Ratio Lower Upper
98 100
100 65.9 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 15.521 ug/l
RT: 8.60 min Scan# 1232
Delta R.T. -0.02 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

Tgt Ion: 43 Resp: 71749
Ion Ratio Lower Upper
43 100
58 10.0 35.1 52.7#

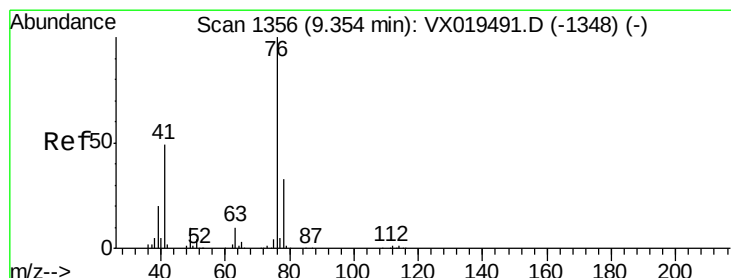
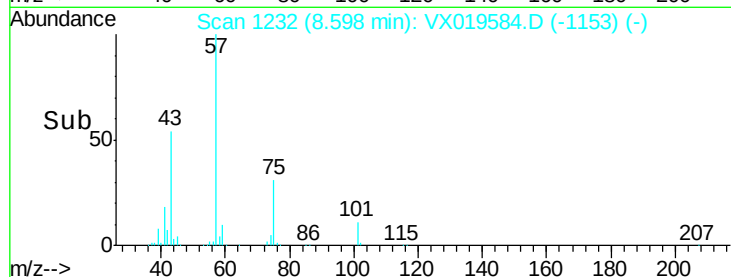
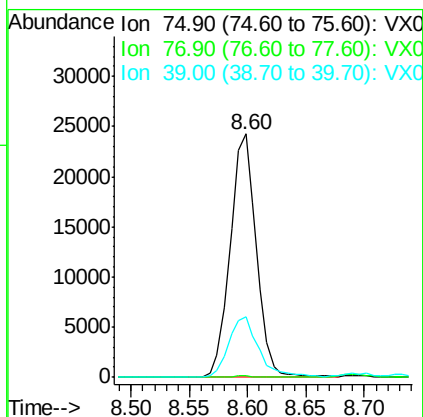
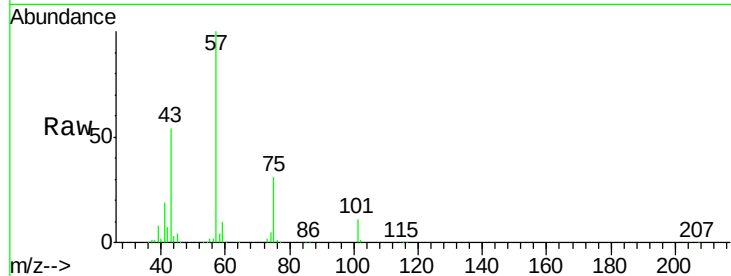




#54
 cis-1,3-Dichloropropene
 Concen: 6.283 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX019584.D
 Acq: 24 Nov 2020 05:05

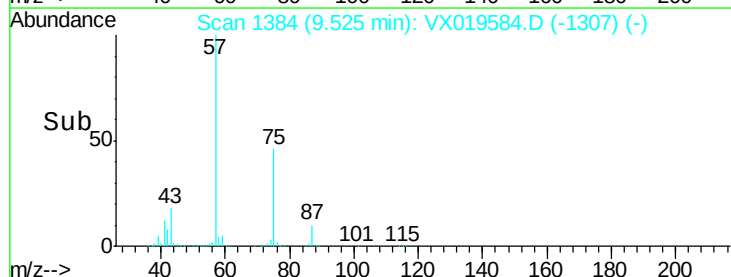
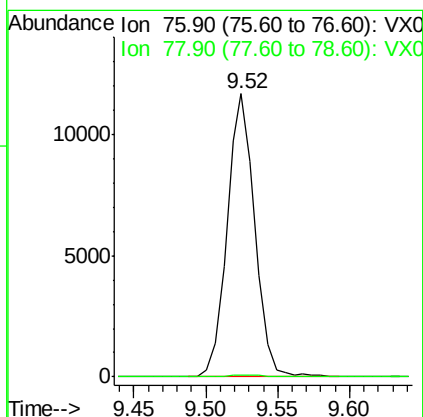
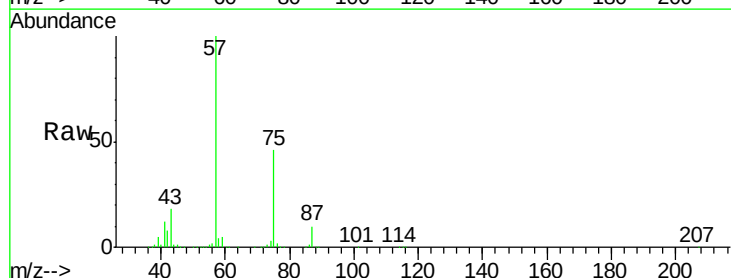
Instrument :
 MSVOA_X
 ClientSampleId :
 TR5-2-TOP

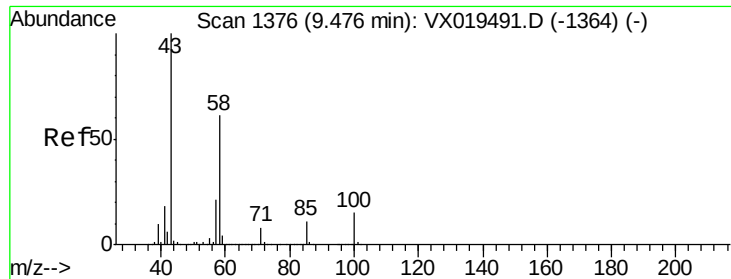
Tot Ion: 75 Resp: 38000
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 24.4 34.6 51.8#



#57
 1,3-Dichloropropane
 Concen: 2.434 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019584.D
 Acq: 24 Nov 2020 05:05

Tgt Ion: 76 Resp: 15672
 Ion Ratio Lower Upper
 76 100
 78 0.7 25.7 38.5#

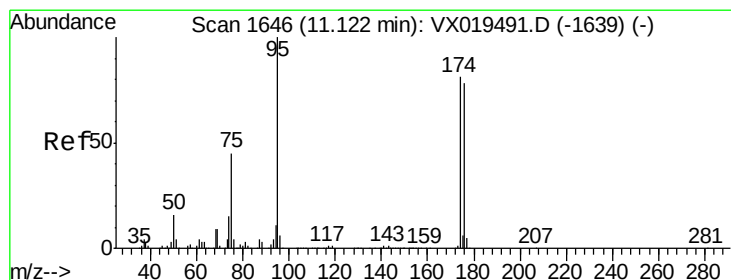
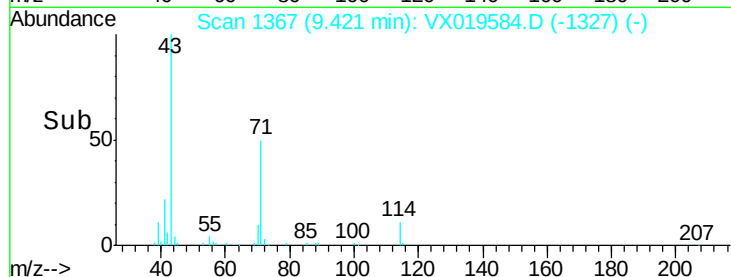
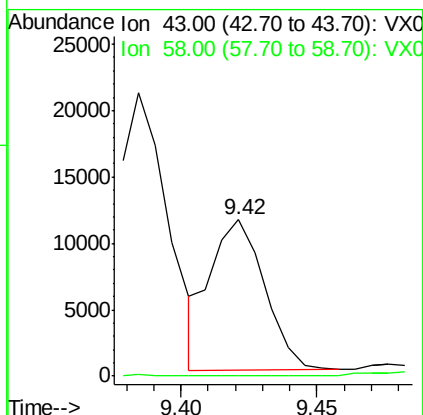
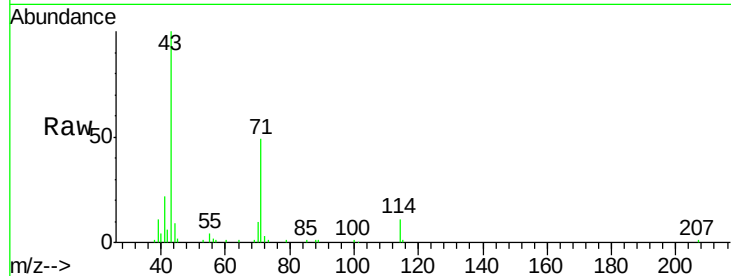




#59
2-Hexanone
Concen: 4.480 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

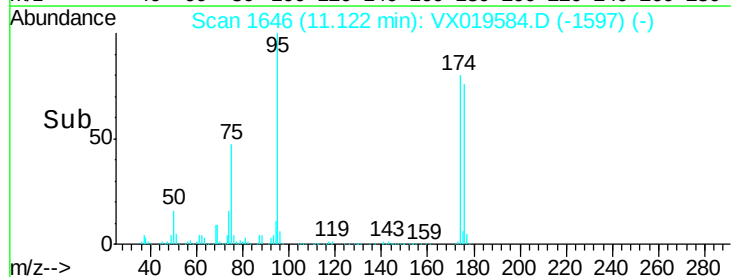
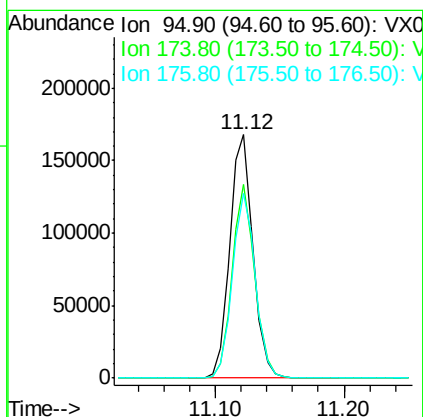
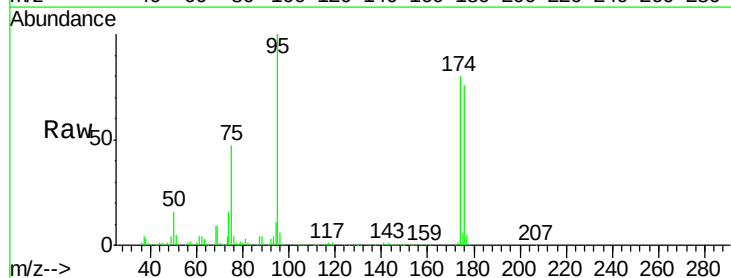
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-TOP

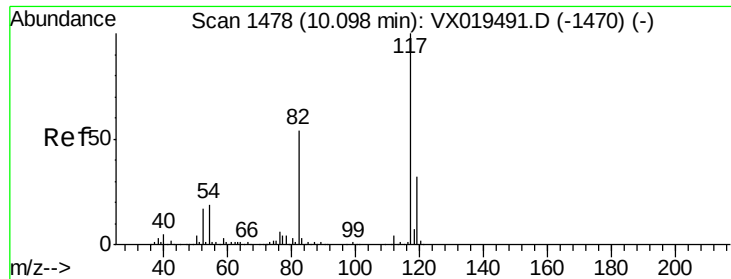
Tot Ion: 43 Resp: 15705
Ion Ratio Lower Upper
43 100
58 0.0 30.6 91.6#



#62
4-Bromofluorobenzene
Concen: 45.121 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

Tgt Ion: 95 Resp: 212167
Ion Ratio Lower Upper
95 100
174 77.3 0.0 156.2
176 75.1 0.0 151.4

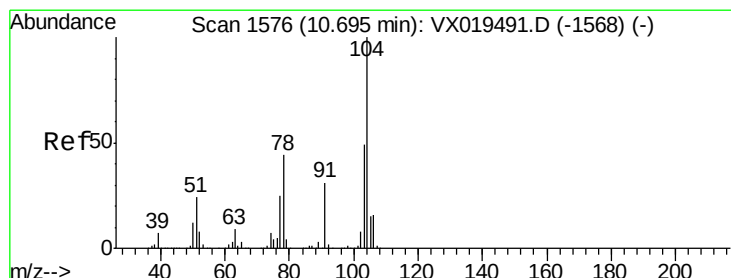
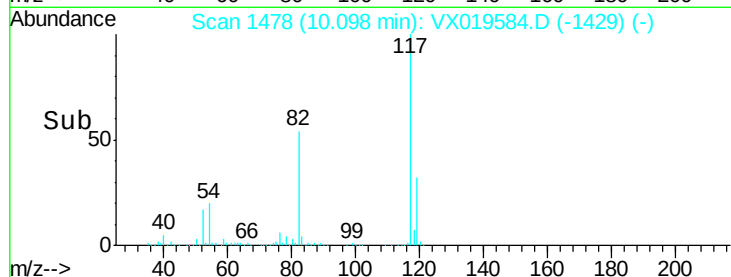
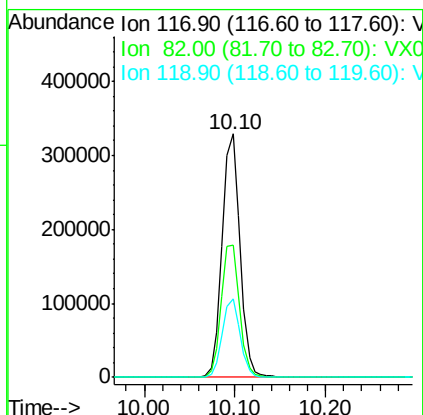
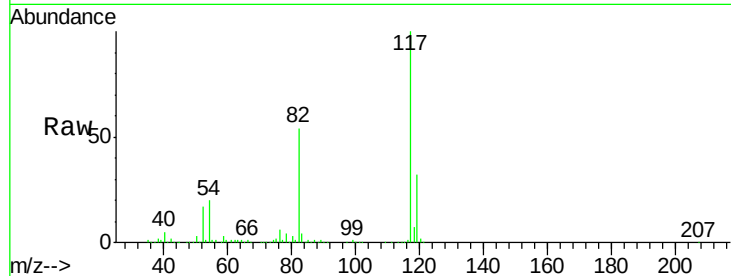




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

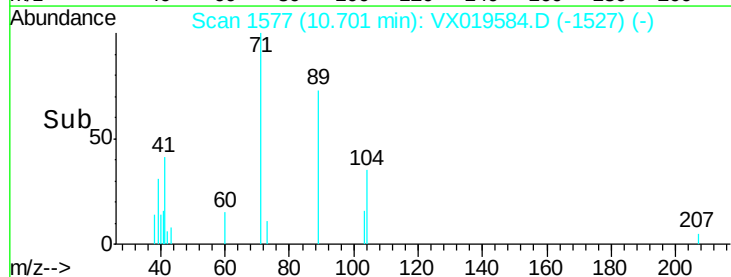
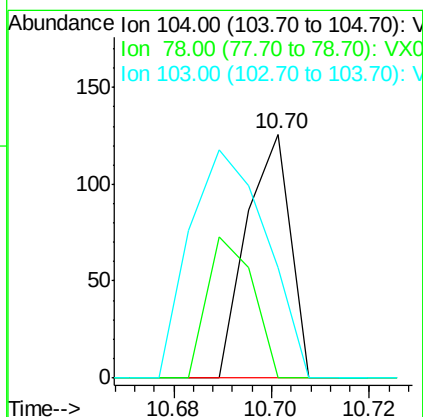
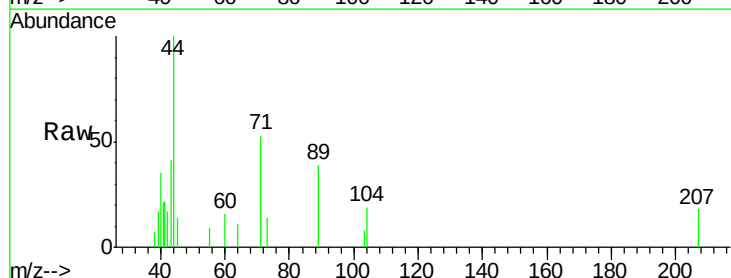
Instrument :
MSVOA_X
ClientSampled :
TR5-2-TOP

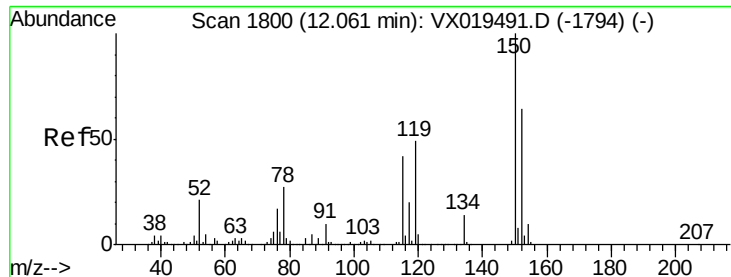
Tot Ion:117 Resp: 453141
Ion Ratio Lower Upper
117 100
82 54.3 43.0 64.4
119 32.2 25.6 38.4



#70
Styrene
Concen: 1.653 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VX019584.D
Acq: 24 Nov 2020 05:05

Tgt Ion:104 Resp: 78
Ion Ratio Lower Upper
104 100
78 61.5 39.5 59.3#
103 164.1 43.6 65.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

TR5-2-TOP

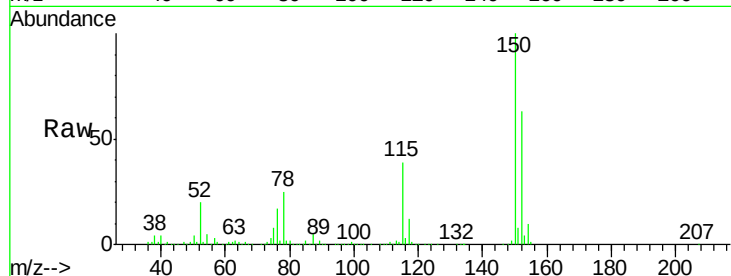
Tot Ion:152 Resp: 193092

Ion Ratio Lower Upper

152 100

115 60.1 41.8 125.4

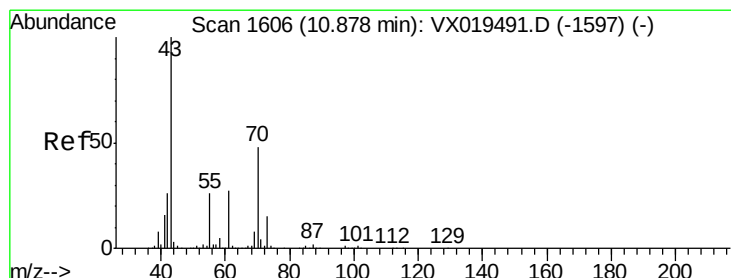
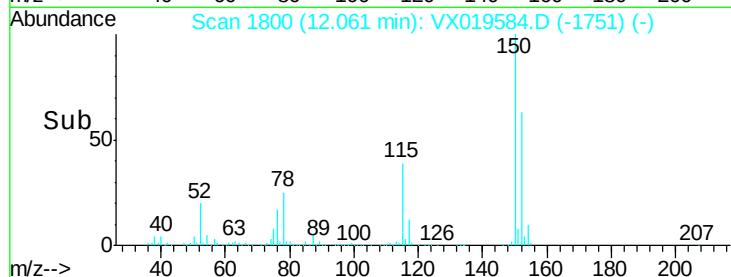
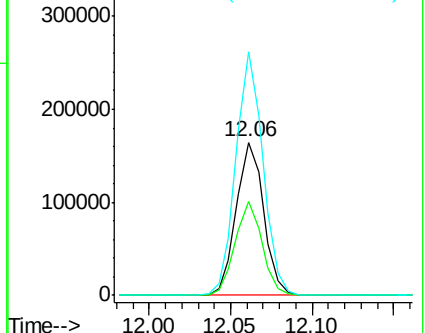
150 156.4 0.0 348.2



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



#74

N-ethyl acetate

Concen: 0.224 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Tgt Ion: 43 Resp: 1122

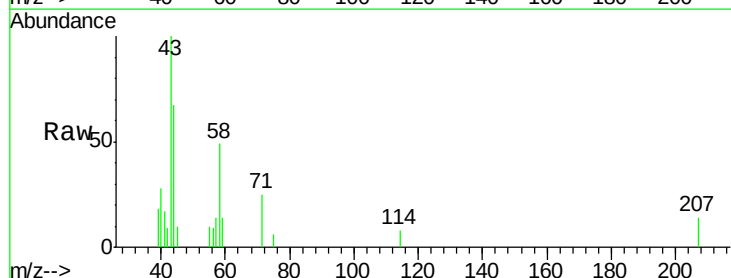
Ion Ratio Lower Upper

43 100

70 0.0 39.7 59.5#

55 16.0 21.8 32.6#

61 0.0 22.2 33.4#

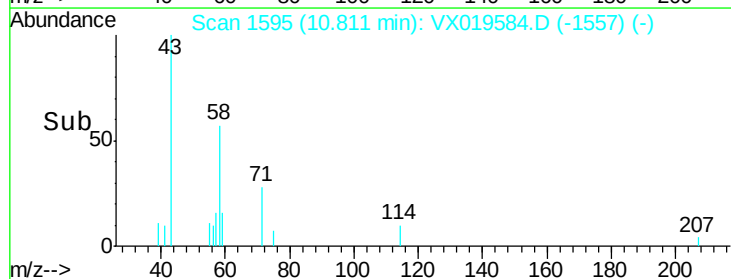
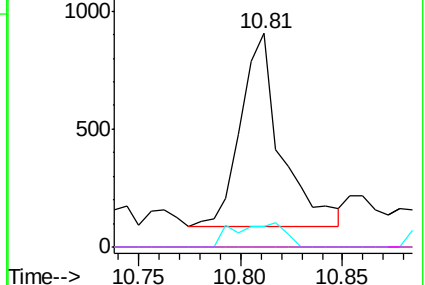


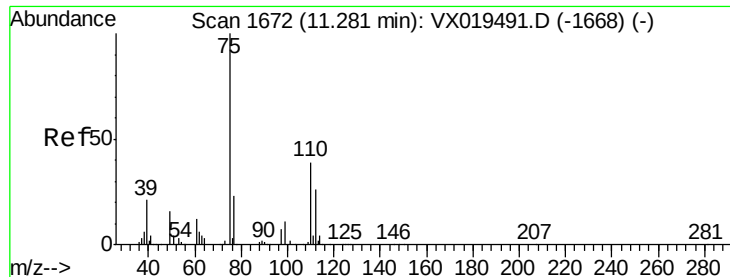
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

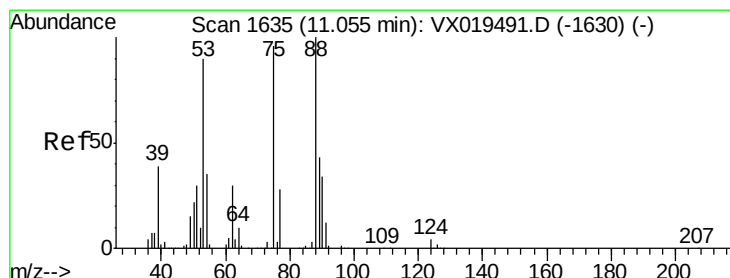
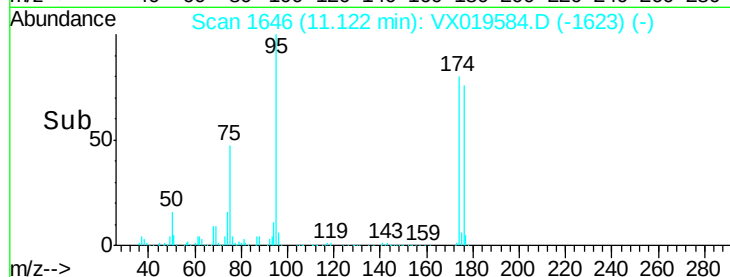
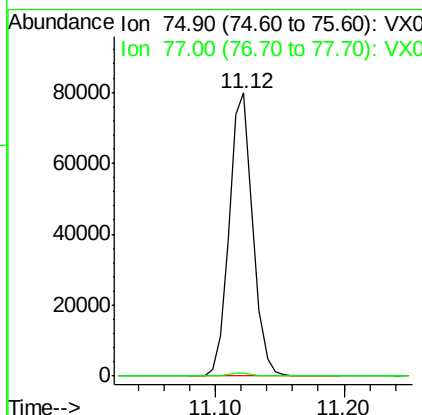
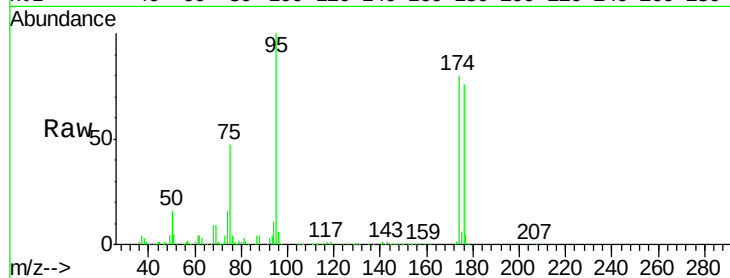




#76
 1,2,3-Trichloropropane
 Concen: 24.250 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX019584.D
 Acq: 24 Nov 2020 05:05

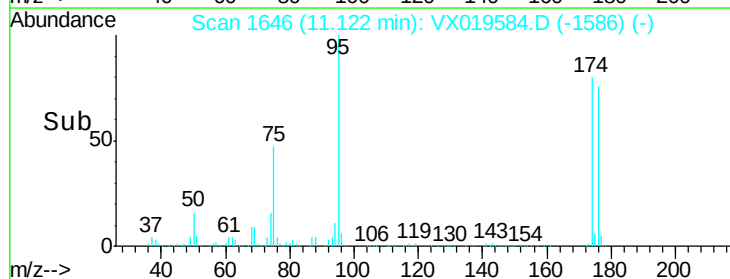
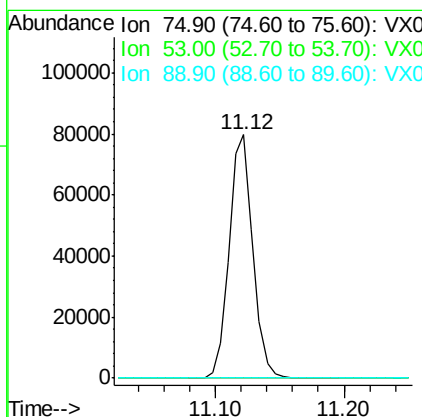
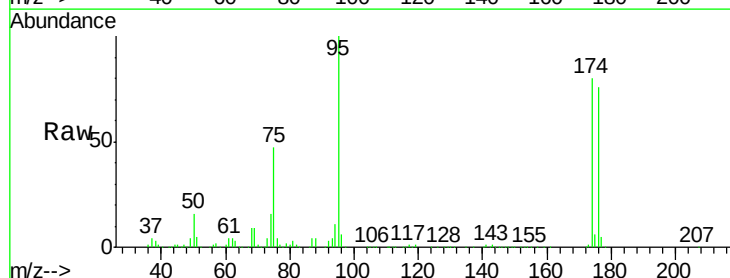
Instrument :
 MSVOA_X
 ClientSampled :
 TR5-2-TOP

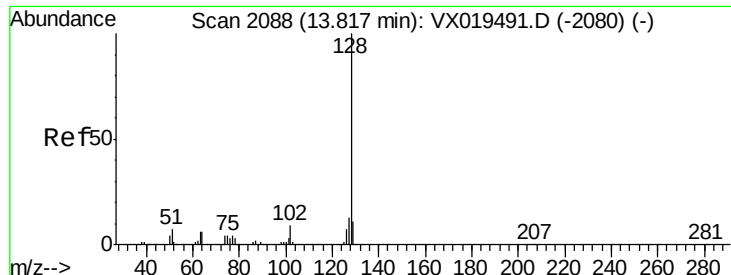
Tot Ion: 75 Resp: 102188
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.0 60.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.186 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019584.D
 Acq: 24 Nov 2020 05:05

Tgt Ion: 75 Resp: 102188
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.9 110.9#
 89 0.0 37.3 55.9#





#95

Naphthalene

Concen: 2.393 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019584.D

Acq: 24 Nov 2020 05:05

Instrument :

MSVOA_X

ClientSampleId :

TR5-2-TOP

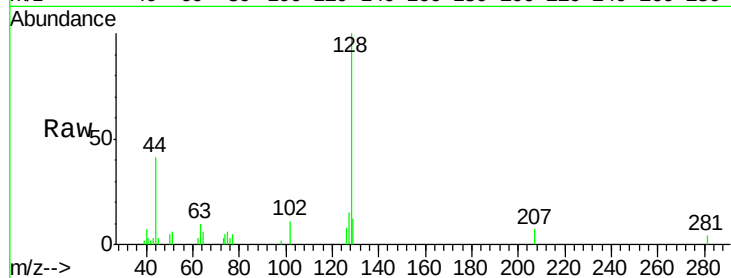
Tot Ion:128 Resp: 3201

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

129 11.4 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

