

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019294.D
 Acq On : 05 Nov 2020 00:55
 Operator : JC/MD
 Sample : L4621-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

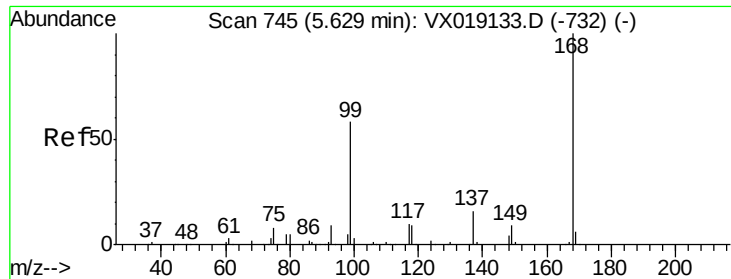
Quant Time: Nov 05 02:31:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	292593	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	523500	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	502829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	247107	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	207422	54.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.94%	
35) Dibromofluoromethane	5.46	113	164823	50.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.24%	
50) Toluene-d8	8.70	98	653391	52.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.42%	
62) 4-Bromofluorobenzene	11.12	95	247374	52.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	757	1.016	ug/l #	72
13) Acrolein	2.27	56	84	5.894	ug/l #	1
16) Acetone	2.42	43	14137	10.860	ug/l	99
17) Carbon Disulfide	2.55	76	461	0.816	ug/l #	80
18) Methyl Acetate	2.75	43	2885	0.911	ug/l	97
20) Methylene Chloride	2.84	84	5728	1.753	ug/l	95
25) 2-Butanone	4.64	43	2459	1.199	ug/l #	87
29) Tetrahydrofuran	5.11	42	1628	1.259	ug/l #	62
31) Cyclohexane	5.62	56	6524	1.368	ug/l #	12
36) 1,1-Dichloropropene	5.63	75	24052	4.975	ug/l #	49
38) Carbon Tetrachloride	5.63	117	30774	6.245	ug/l #	16
43) Isopropyl Acetate	6.41	43	72992	9.712	ug/l	98
48) Methyl methacrylate	7.65	41	3766	1.041	ug/l #	9
49) 1,4-Dioxane	7.85	88	236	2.934	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	71753	16.611	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	35166	5.984	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	6093	1.036	ug/l #	42
59) 2-Hexanone	9.42	43	79021	24.033	ug/l #	20
74) N-amyl acetate	10.80	43	2740	0.428	ug/l #	43
76) 1,2,3-Trichloropropane	11.12	75	126433	24.780	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	126433	65.245	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

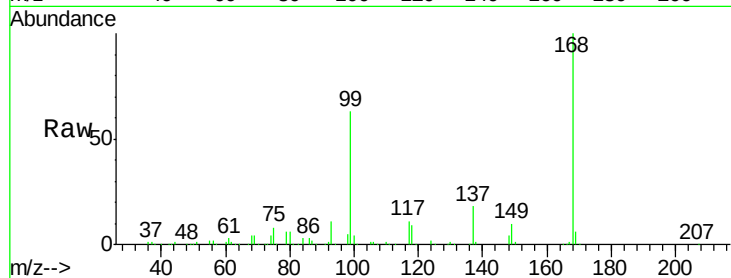
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 292593

Ion Ratio Lower Upper

168 100

99 62.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

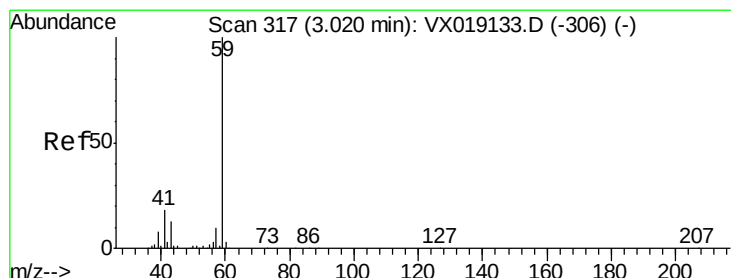
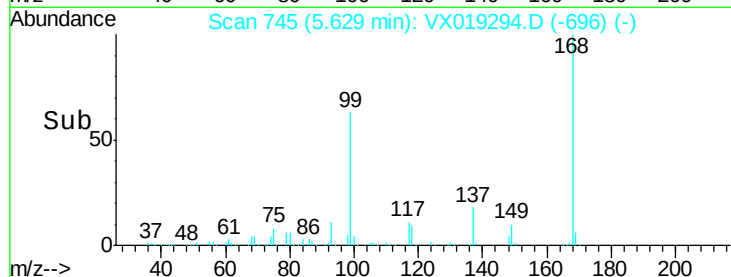
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.016 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX019294.D

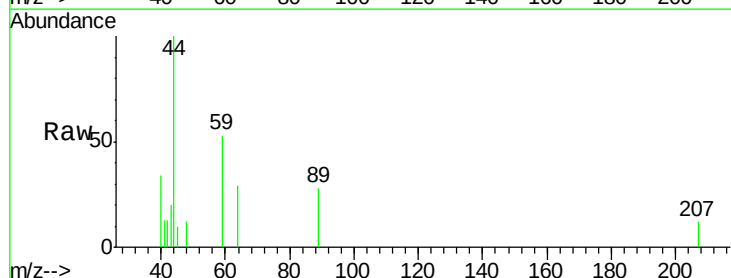
Acq: 05 Nov 2020 00:55

Tgt Ion: 59 Resp: 757

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

300

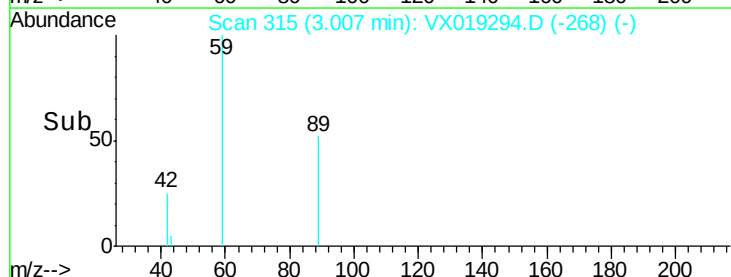
200

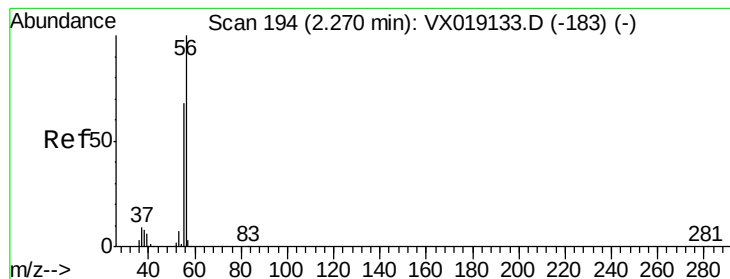
100

0

Time-->

2.95 3.00 3.05





#13

Acrolein

Concen: 5.894 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

Instrument :

MSVOA_X

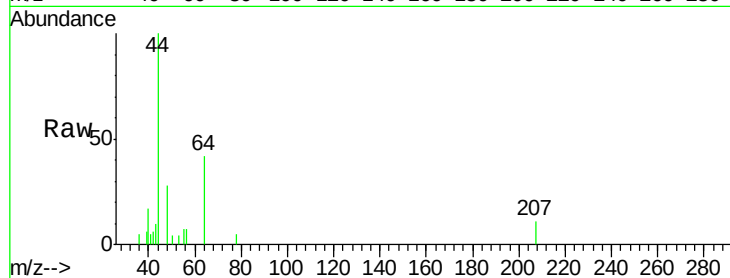
ClientSampled :

Tot Ion: 56 Resp: 84

Ion Ratio Lower Upper

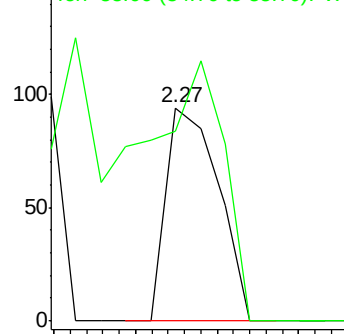
56 100

55 156.0 54.7 82.1#

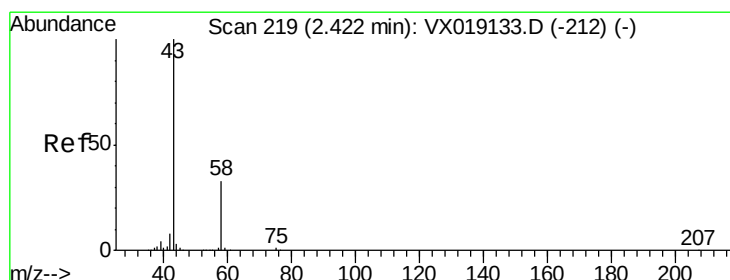
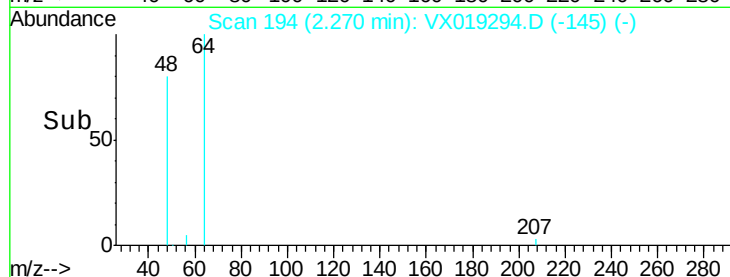


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time--> 2.24 2.26 2.28 2.30



#16

Acetone

Concen: 10.860 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019294.D

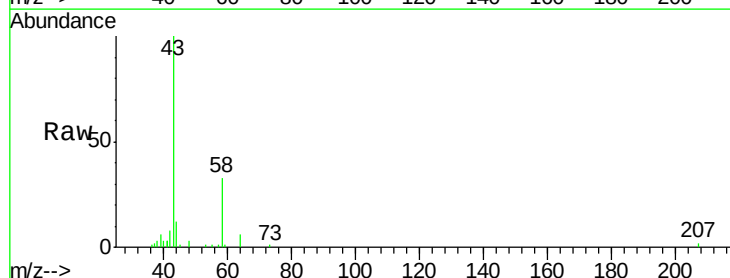
Acq: 05 Nov 2020 00:55

Tgt Ion: 43 Resp: 14137

Ion Ratio Lower Upper

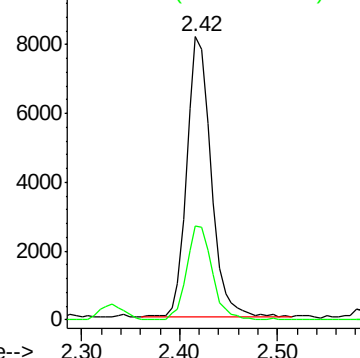
43 100

58 33.6 26.3 39.5

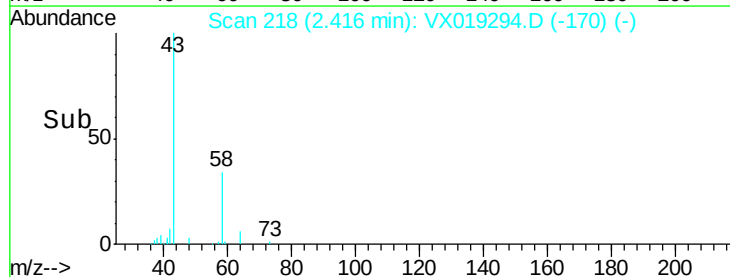


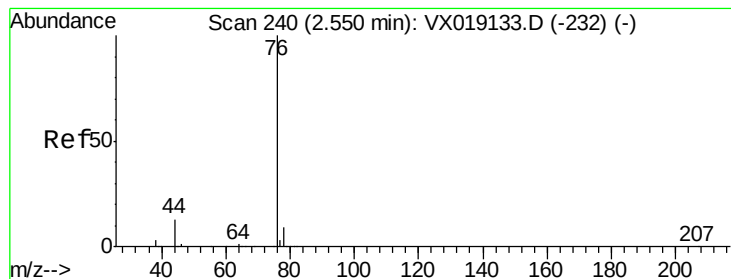
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time--> 2.30 2.40 2.50





#17

Carbon Disulfide

Concen: 0.816 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

Instrument :

MSVOA_X

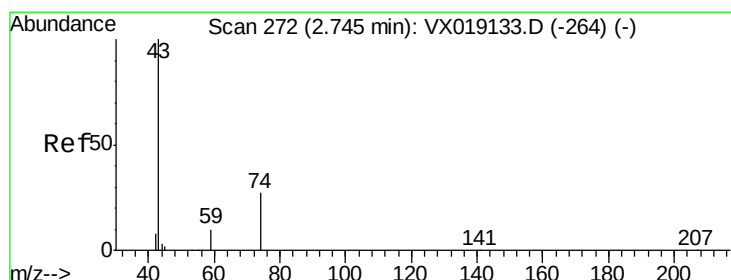
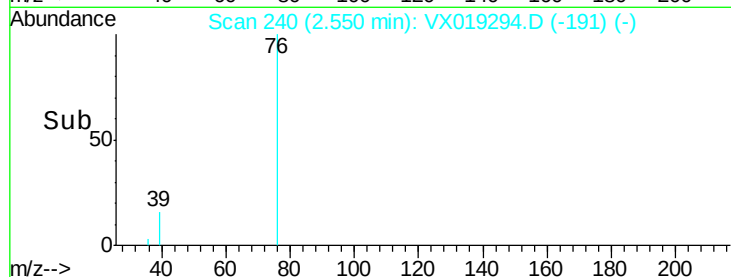
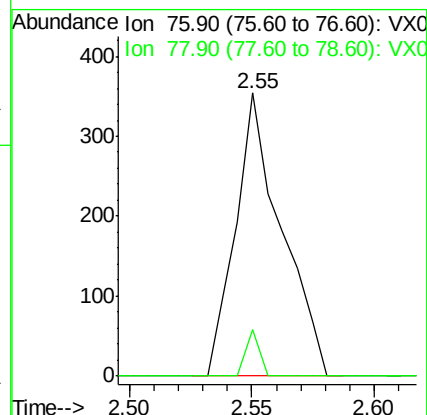
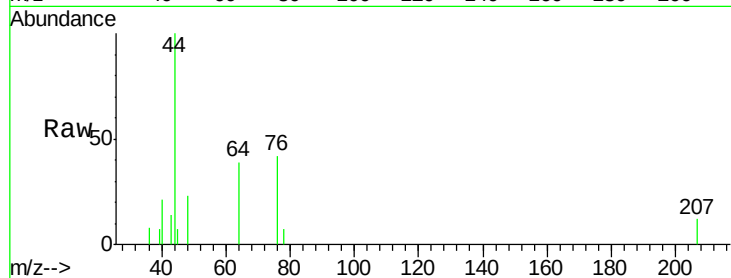
ClientSampled :

Tot Ion: 76 Resp: 461

Ion Ratio Lower Upper

76 100

78 16.4 7.3 10.9#



#18

Methyl Acetate

Concen: 0.911 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019294.D

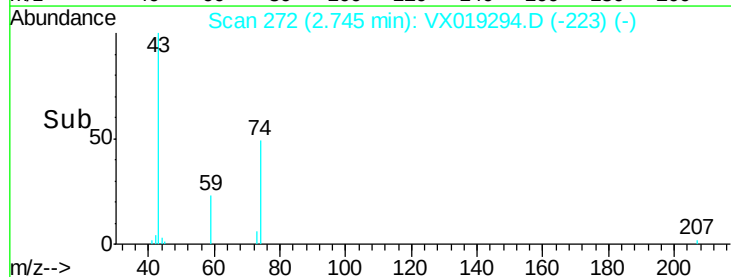
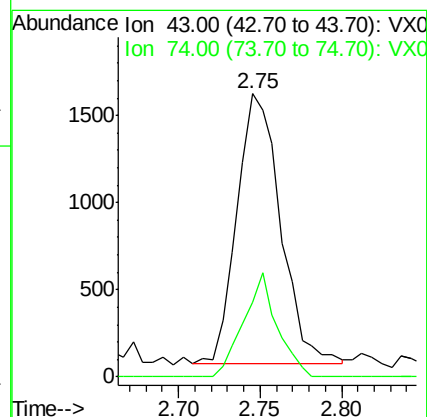
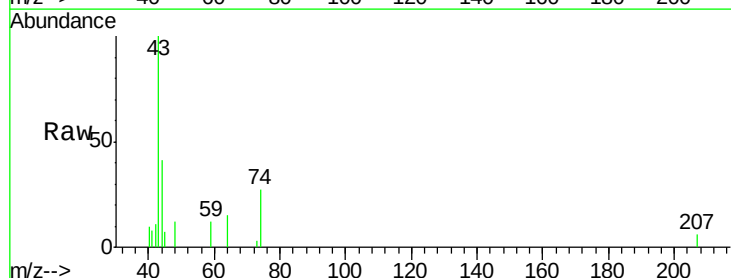
Acq: 05 Nov 2020 00:55

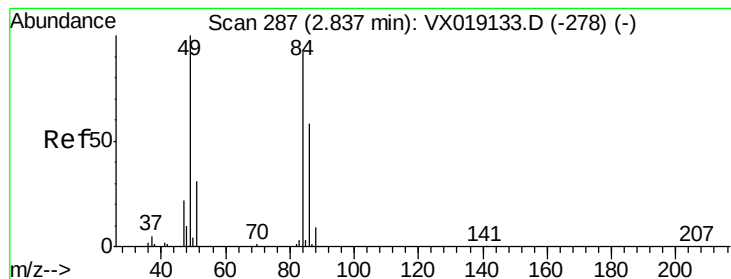
Tgt Ion: 43 Resp: 2885

Ion Ratio Lower Upper

43 100

74 29.7 22.6 33.8





#20

Methvlene Chloride

Concen: 1.753 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 84 Resp: 5728

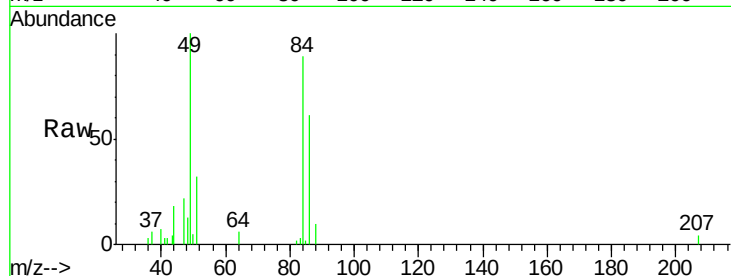
Ion Ratio Lower Upper

84 100

49 112.7 86.8 130.2

51 36.4 27.3 40.9

86 68.4 50.6 76.0

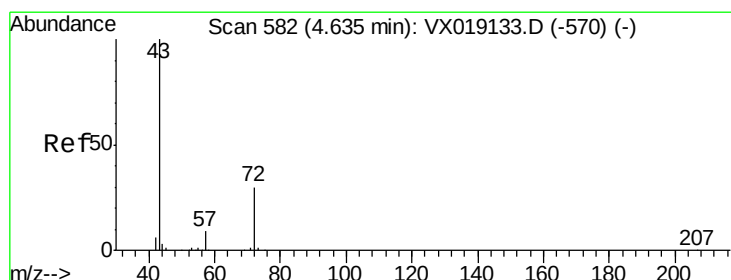
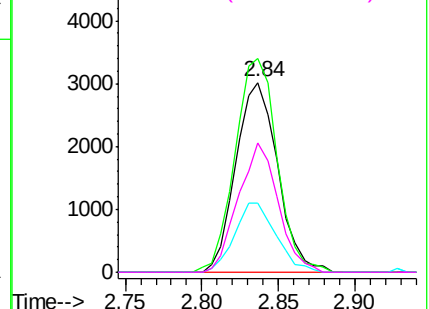
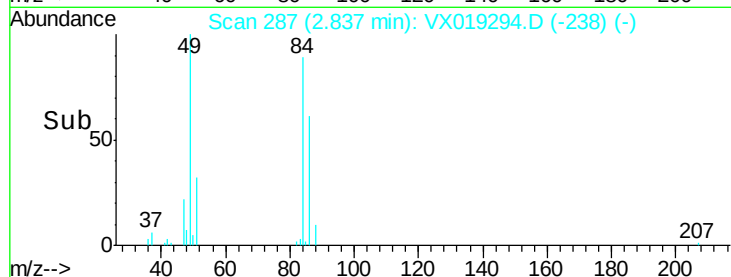


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.199 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX019294.D

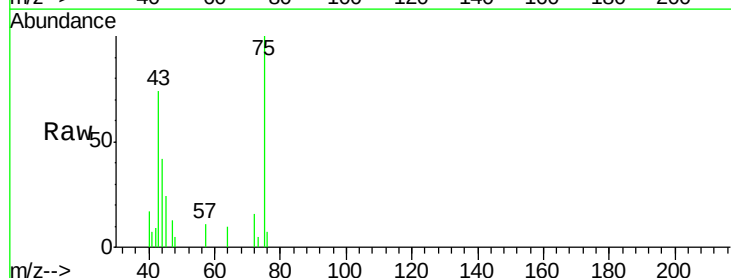
Acq: 05 Nov 2020 00:55

Tgt Ion: 43 Resp: 2459

Ion Ratio Lower Upper

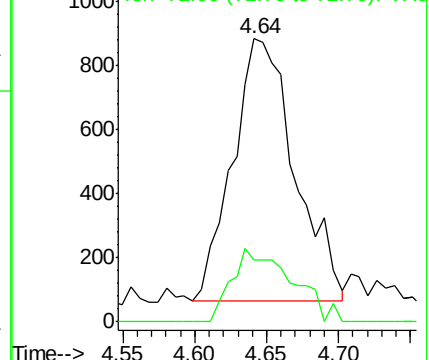
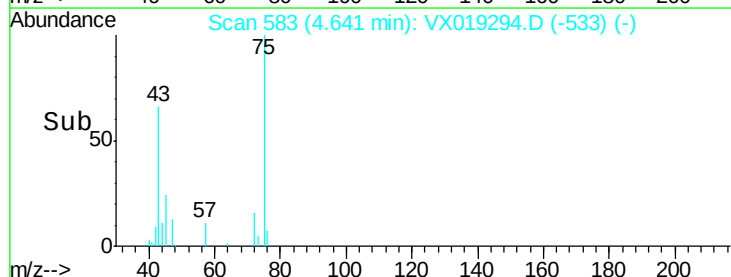
43 100

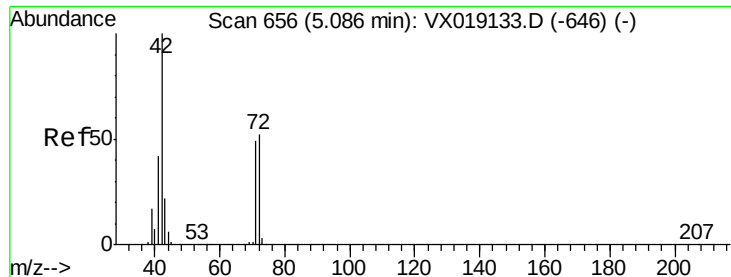
72 23.8 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

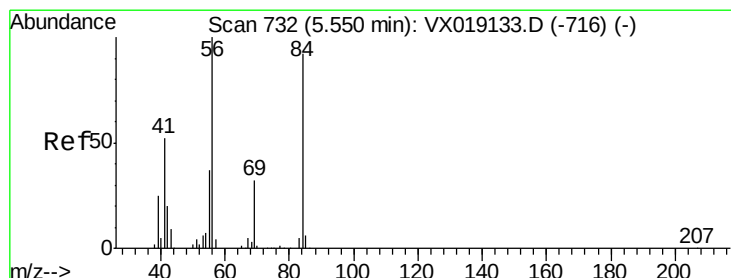
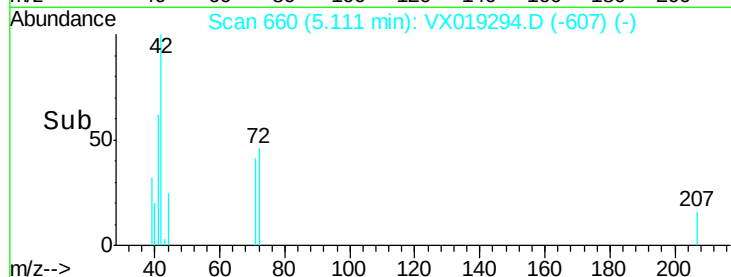
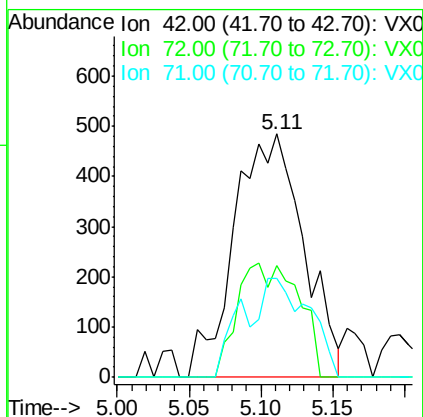
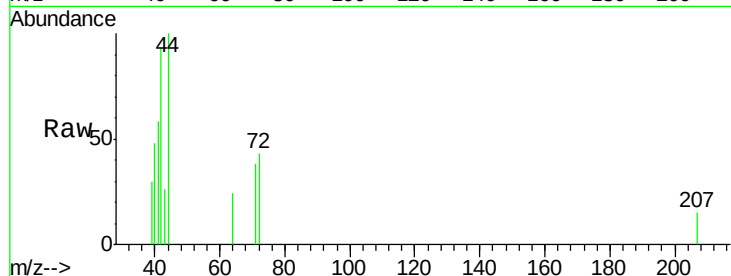




#29
Tetrahydrofuran
Concen: 1.259 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX019294.D
Acq: 05 Nov 2020 00:55

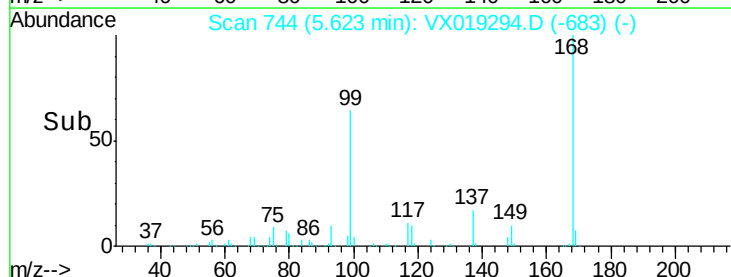
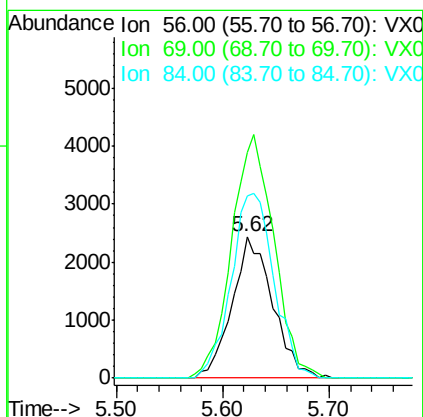
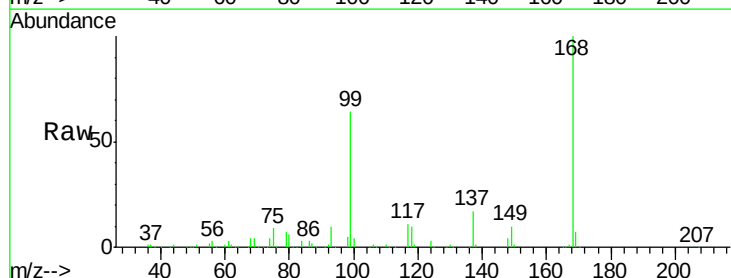
Instrument :
MSVOA_X
ClientSampleId :

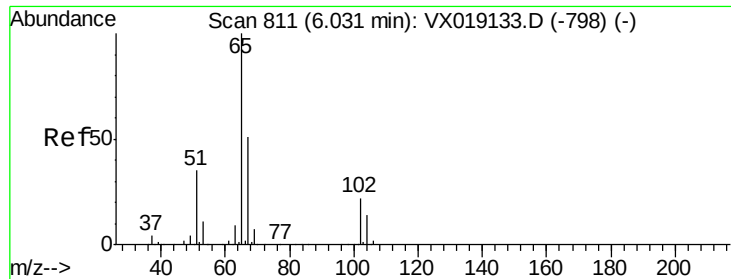
Tot Ion: 42 Resp: 1628
Ion Ratio Lower Upper
42 100
72 21.7 42.6 63.8#
71 28.2 39.7 59.5#



#31
Cyclohexane
Concen: 1.368 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX019294.D
Acq: 05 Nov 2020 00:55

Tgt Ion: 56 Resp: 6524
Ion Ratio Lower Upper
56 100
69 159.3 25.9 38.9#
84 129.1 73.4 110.2#

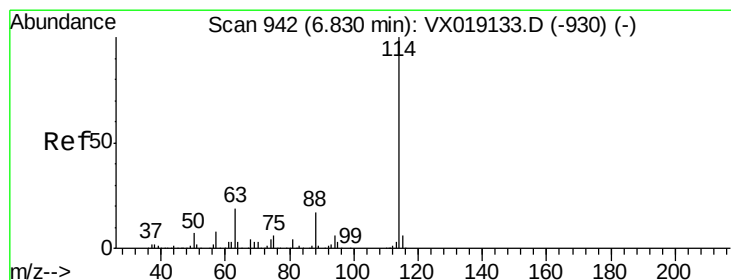
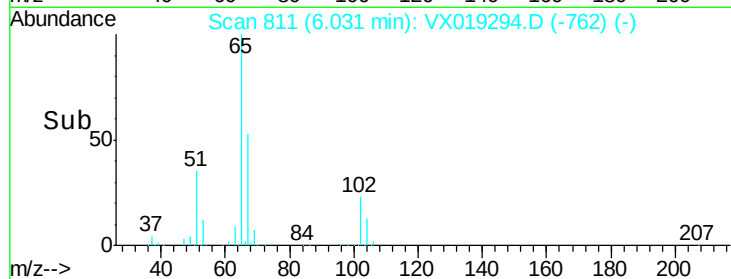
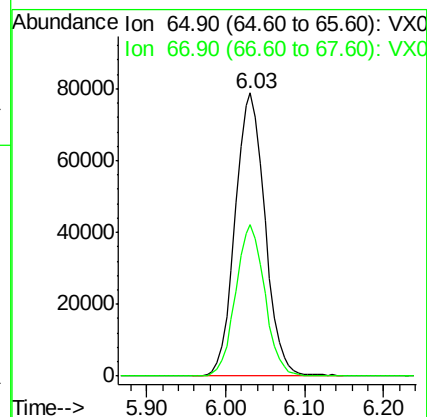
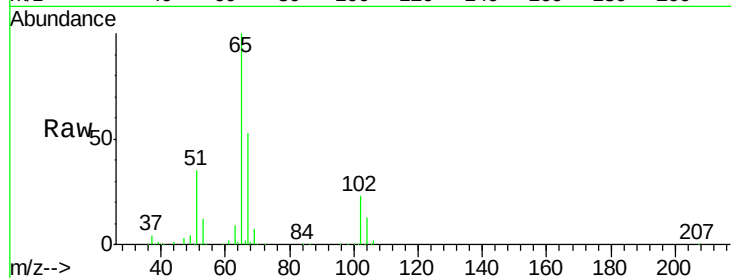




#33
 1,2-Dichloroethane-d4
 Concen: 54.970 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019294.D
 Acq: 05 Nov 2020 00:55

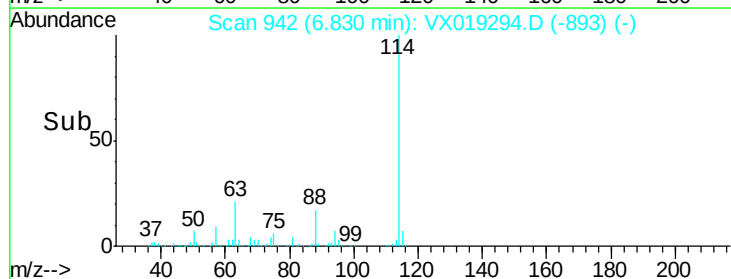
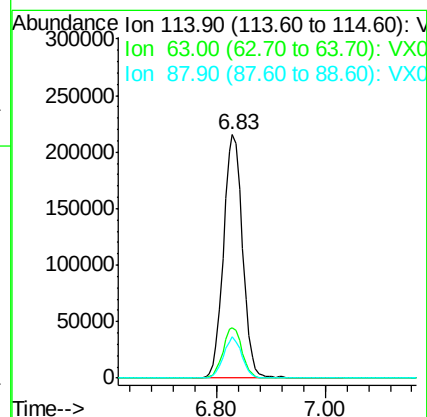
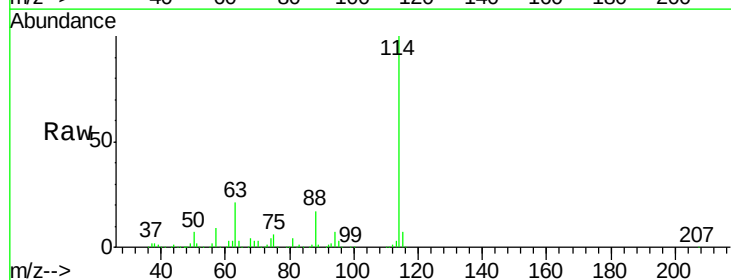
Instrument :
 MSVOA_X
 ClientSampleId :

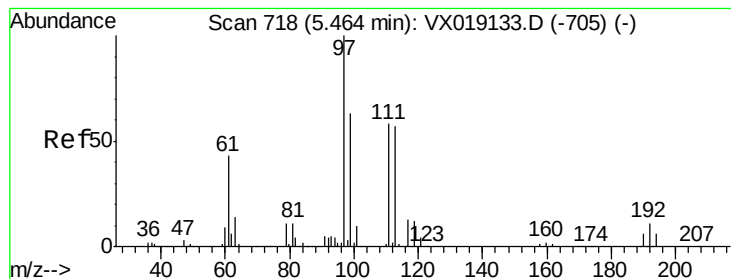
Tot Ion: 65 Resp: 207422
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019294.D
 Acq: 05 Nov 2020 00:55

Tgt Ion: 114 Resp: 523500
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 38.8
 88 16.9 0.0 34.2





#35

Dibromofluoromethane

Concen: 50.124 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

Instrument :
MSVOA_X
ClientSampleId :

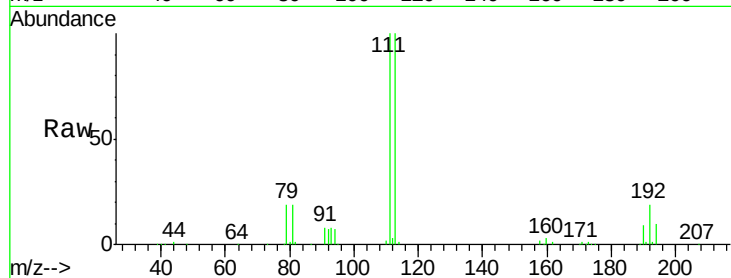
Tot Ion:113 Resp: 164823

Ion Ratio Lower Upper

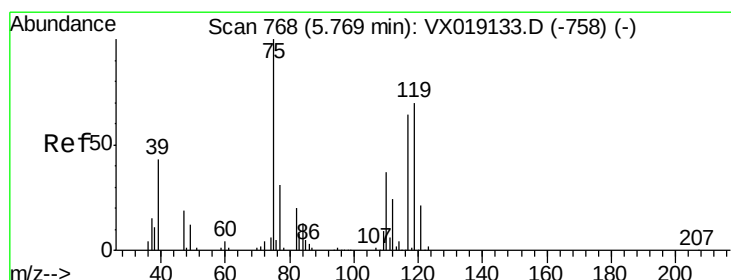
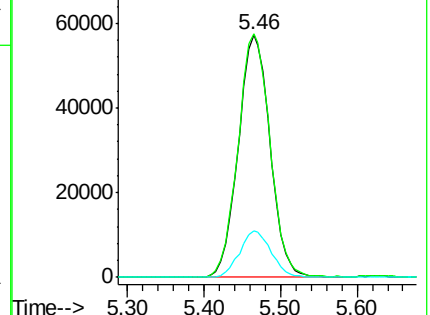
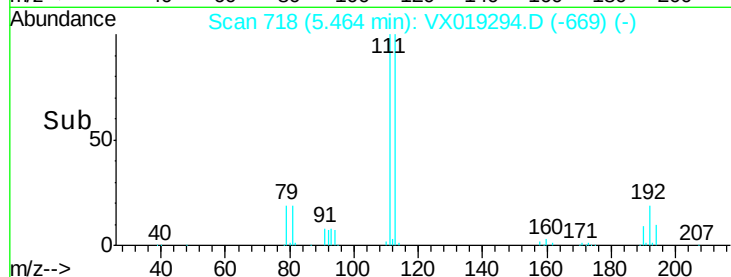
113 100

111 101.4 82.3 123.5

192 18.9 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: 4.975 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

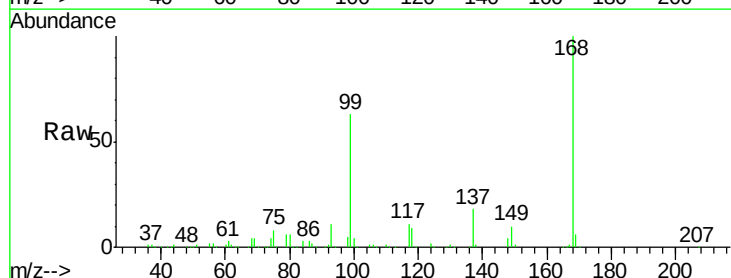
Tgt Ion: 75 Resp: 24052

Ion Ratio Lower Upper

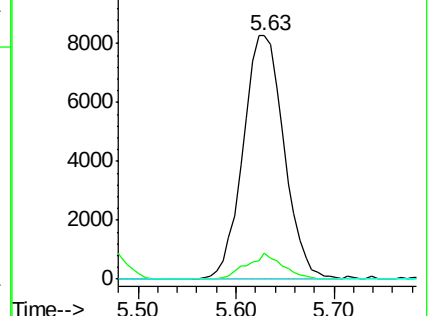
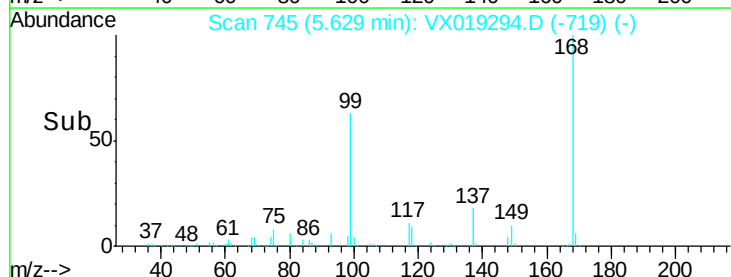
75 100

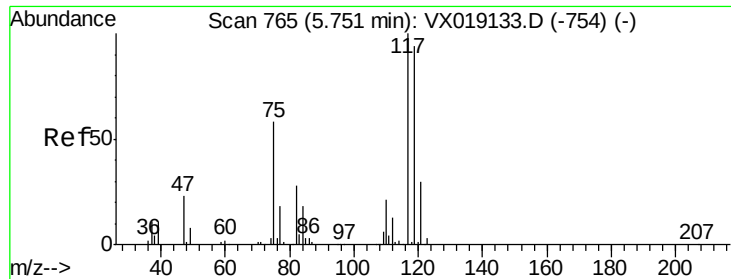
110 9.2 18.3 54.9#

77 0.0 24.9 37.3#



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: 6.245 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

Instrument :

MSVOA_X

ClientSampled :

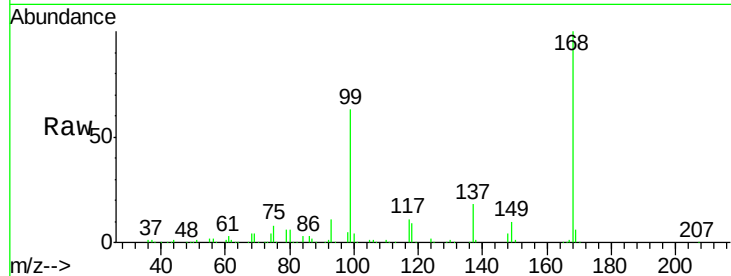
Tot Ion:117 Resp: 30774

Ion Ratio Lower Upper

117 100

119 4.3 75.0 112.6#

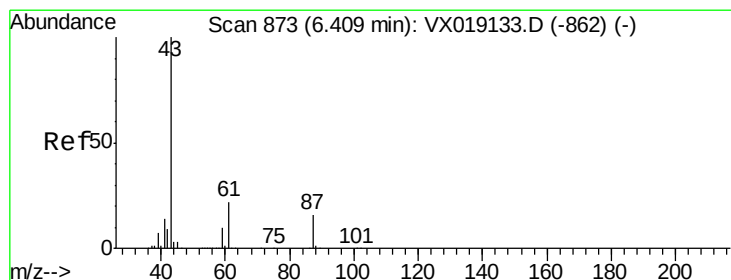
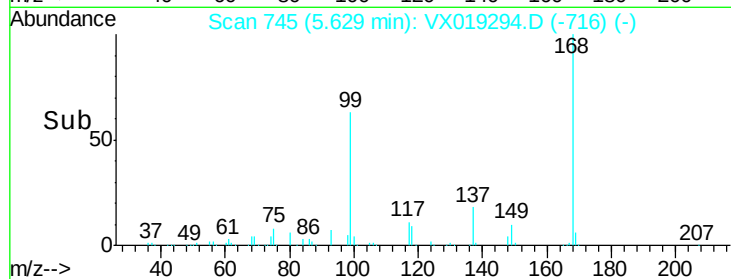
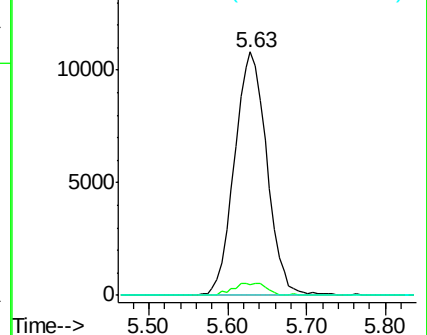
121 0.0 23.9 35.9#



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: 9.712 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

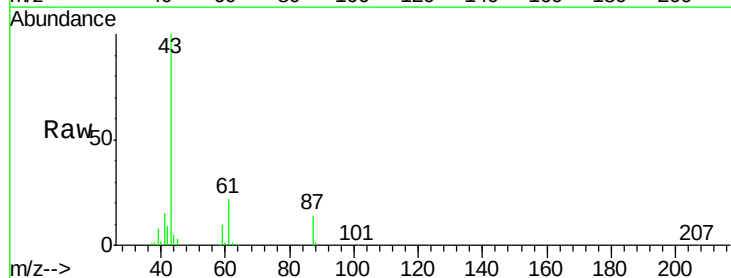
Tgt Ion: 43 Resp: 72992

Ion Ratio Lower Upper

43 100

61 21.6 17.8 26.6

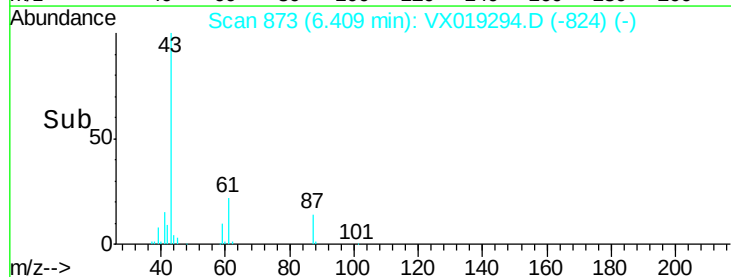
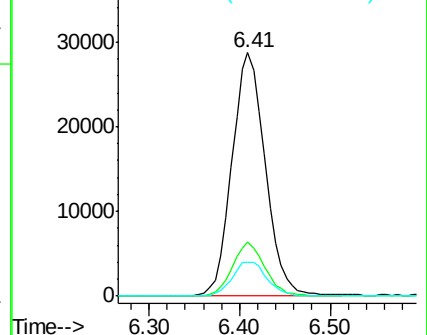
87 14.7 12.6 19.0

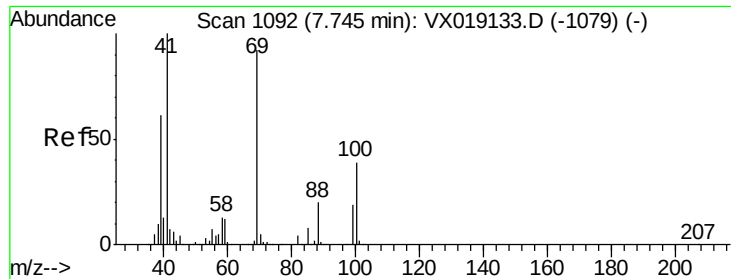


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

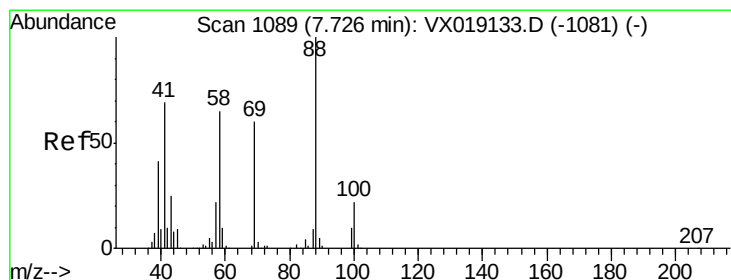
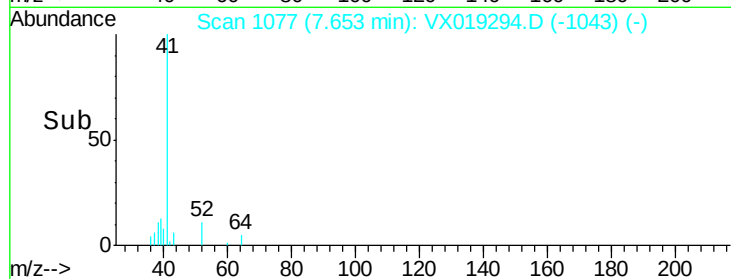
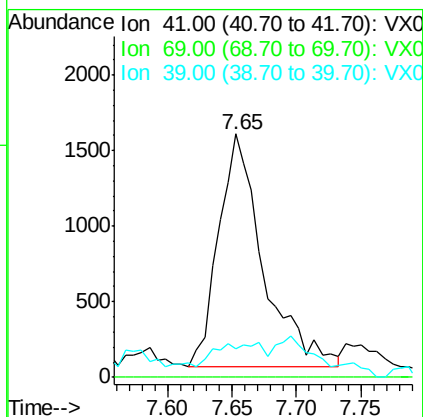
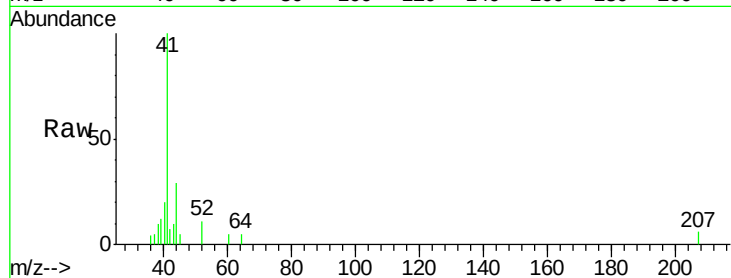




#48
Methyl methacrylate
Concen: 1.041 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX019294.D
Acq: 05 Nov 2020 00:55

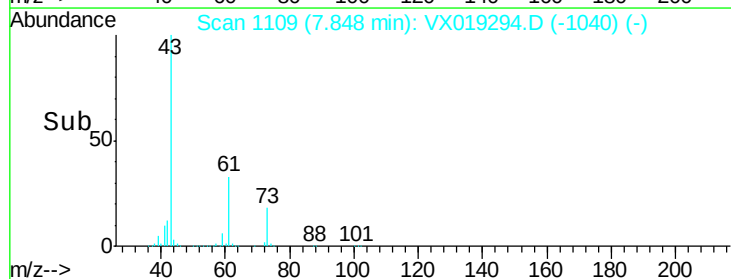
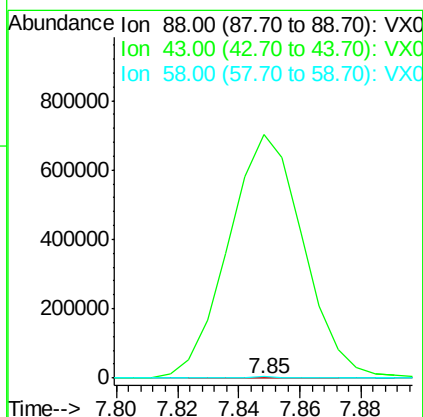
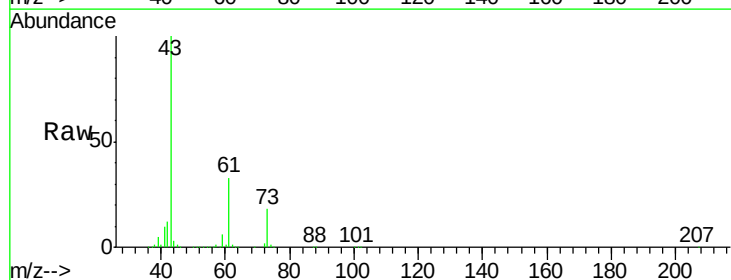
Instrument :
MSVOA_X
ClientSampleId :

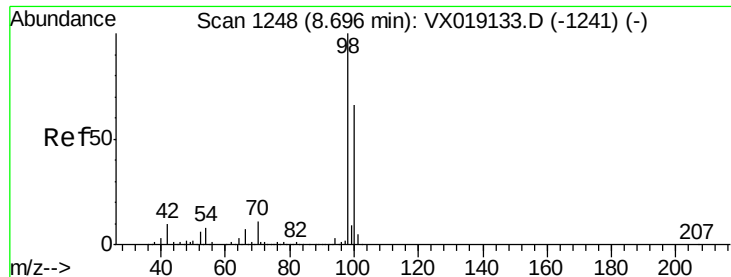
Tot Ion: 41 Resp: 3766
Ion Ratio Lower Upper
41 100
69 0.0 75.5 113.3#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 2.934 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.12 min
Lab File: VX019294.D
Acq: 05 Nov 2020 00:55

Tgt Ion: 88 Resp: 236
Ion Ratio Lower Upper
88 100
43 512263.6 23.0 34.6#
58 2486.0 52.2 78.2#





#50

Toluene-d8

Concen: 52.711 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

Instrument :

MSVOA_X

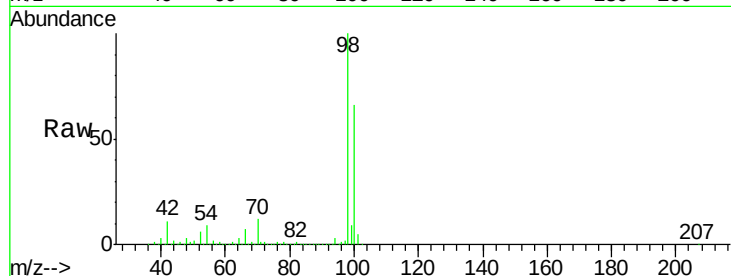
ClientSampleId :

Tot Ion: 98 Resp: 653391

Ion Ratio Lower Upper

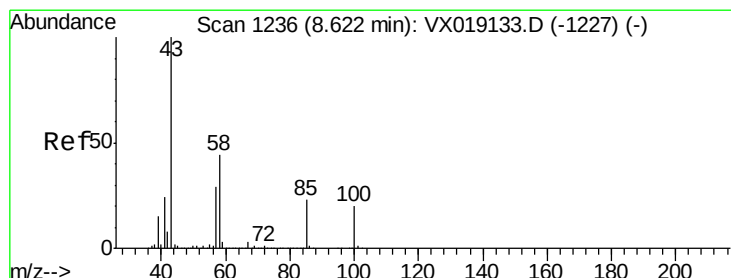
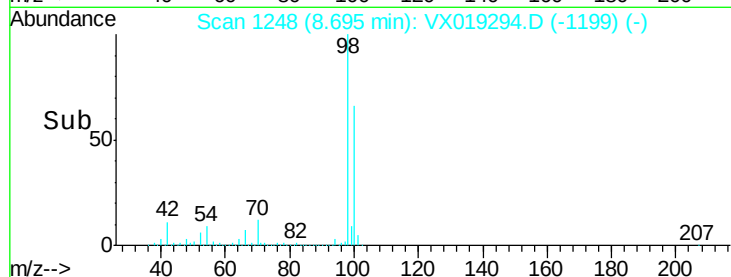
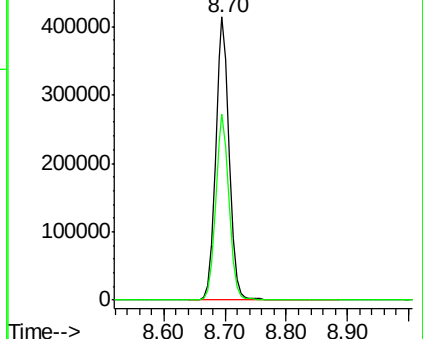
98 100

100 65.4 53.0 79.6



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: 16.611 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019294.D

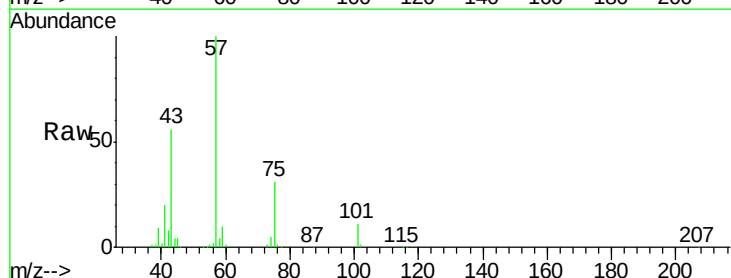
Acq: 05 Nov 2020 00:55

Tgt Ion: 43 Resp: 71753

Ion Ratio Lower Upper

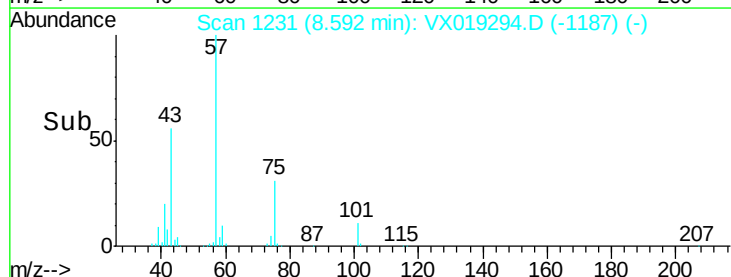
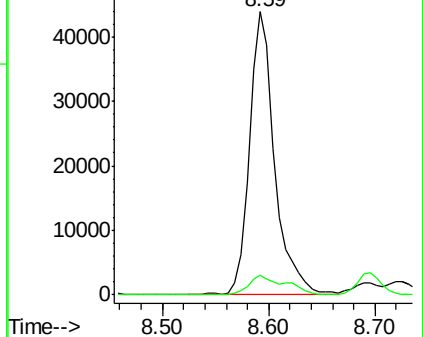
43 100

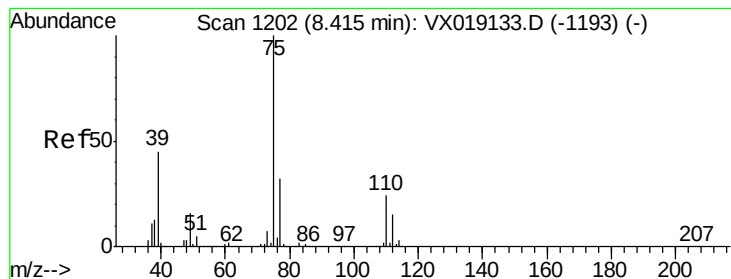
58 10.3 35.0 52.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



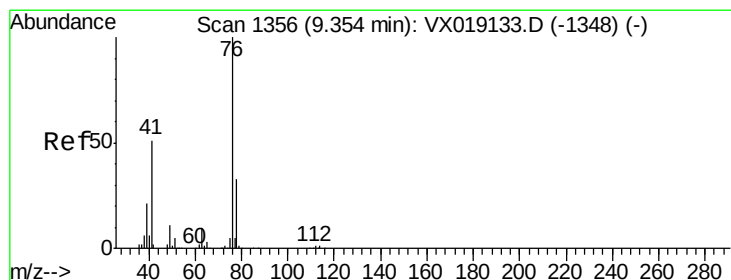
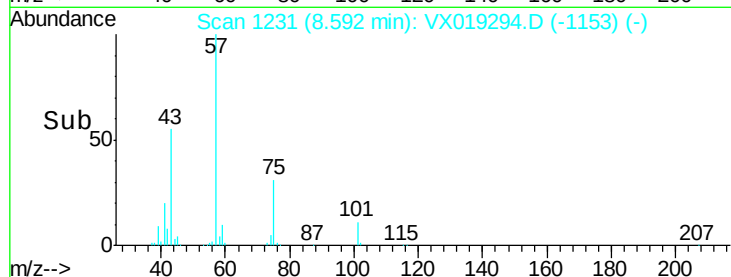
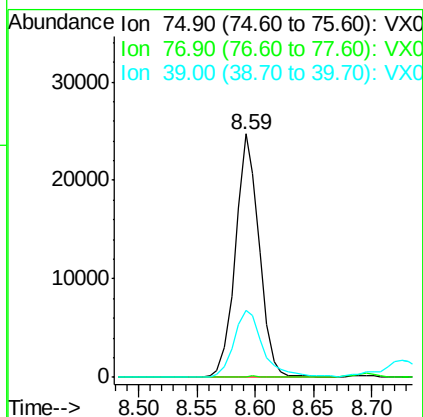
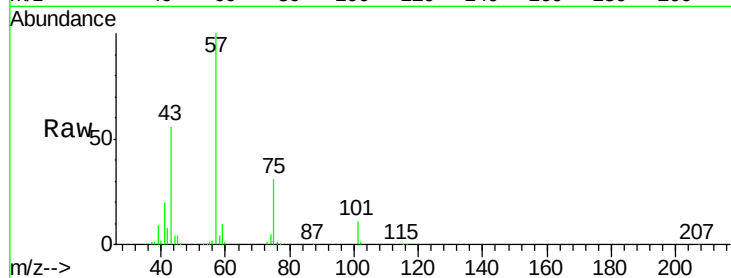


#54

cis-1,3-Dichloropropene
 Concen: 5.984 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019294.D
 Acq: 05 Nov 2020 00:55

Instrument :
 MSVOA_X
 ClientSampleId :

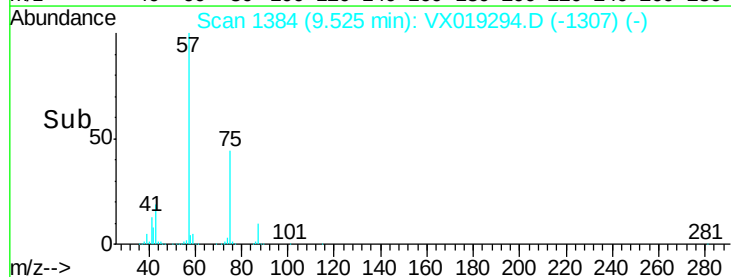
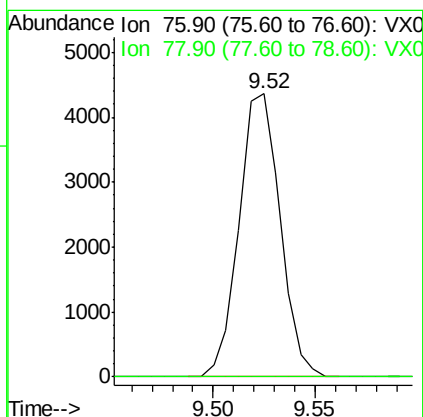
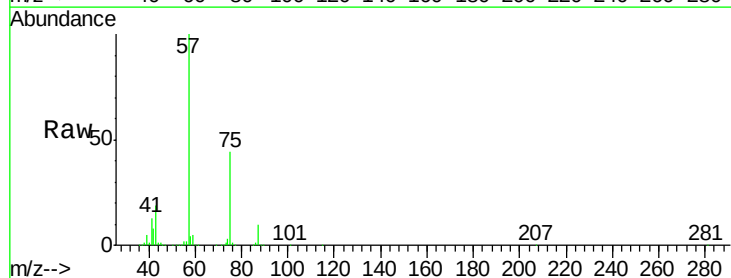
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.4	25.5	38.3#
39	27.5	36.2	54.2#

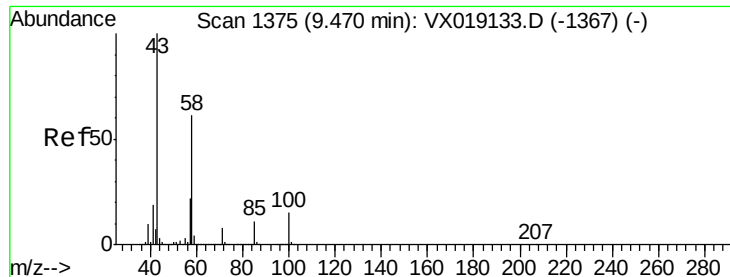


#57

1,3-Dichloropropane
 Concen: 1.036 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019294.D
 Acq: 05 Nov 2020 00:55

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.9	38.9#

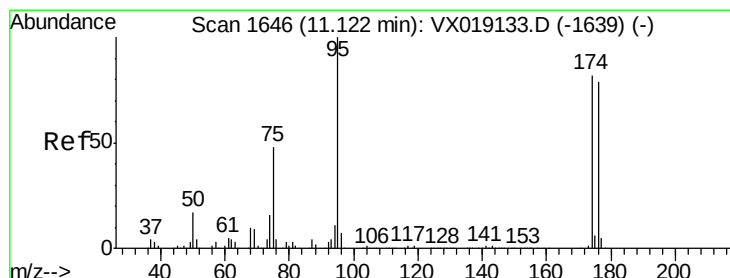
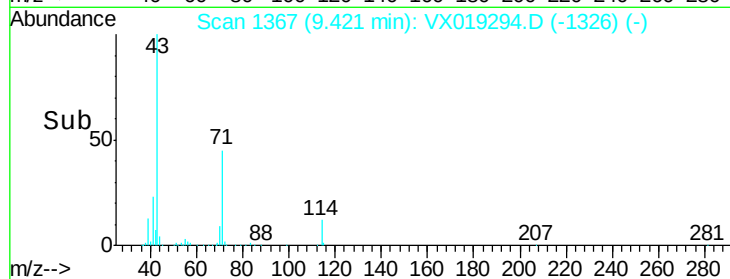
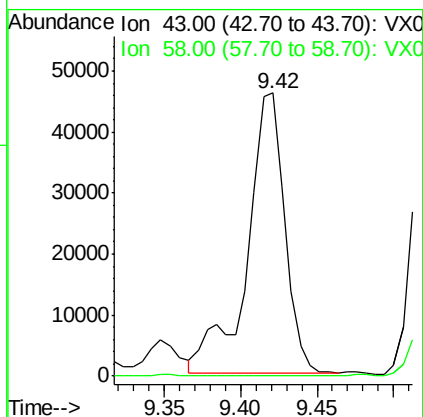
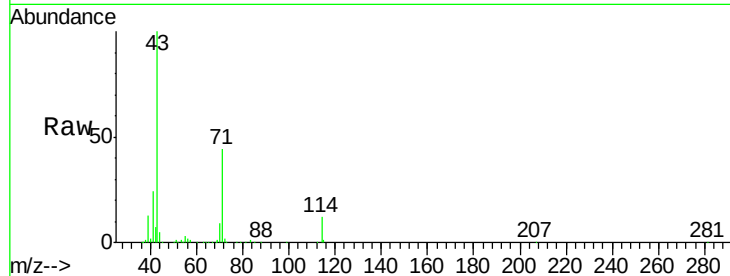




#59
2-Hexanone
Concen: 24.033 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX019294.D
Acq: 05 Nov 2020 00:55

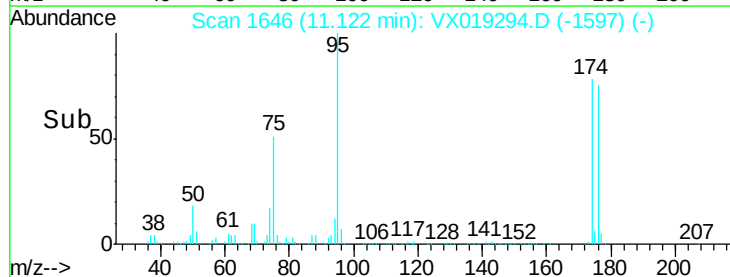
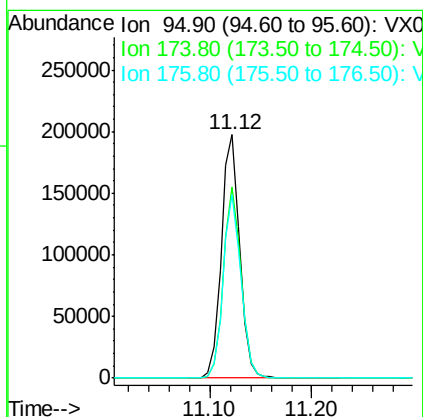
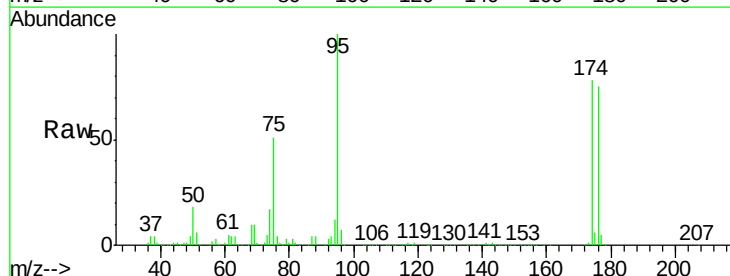
Instrument :
MSVOA_X
ClientSampleId :

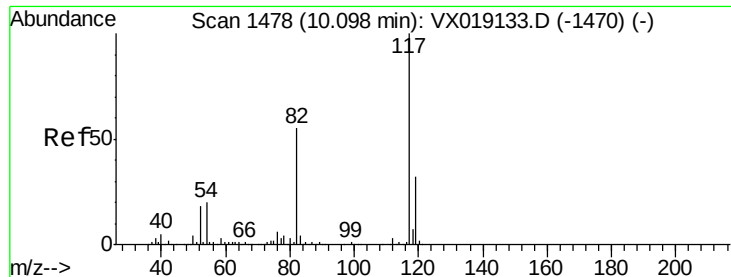
Tot Ion: 43 Resp: 79021
Ion Ratio Lower Upper
43 100
58 0.0 30.5 91.5#



#62
4-Bromofluorobenzene
Concen: 52.696 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019294.D
Acq: 05 Nov 2020 00:55

Tgt Ion: 95 Resp: 247374
Ion Ratio Lower Upper
95 100
174 75.7 0.0 156.0
176 73.2 0.0 149.8

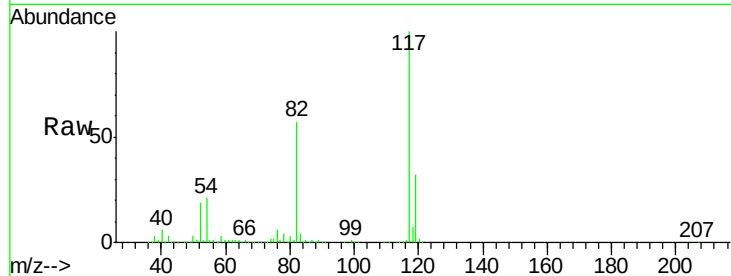




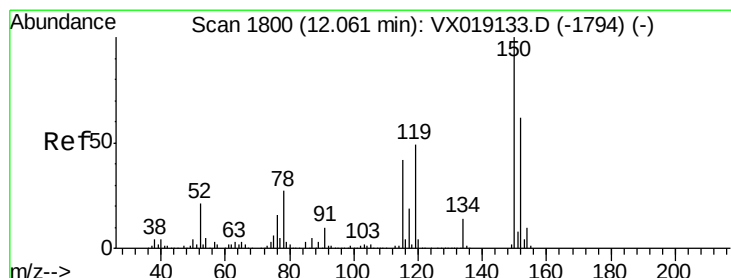
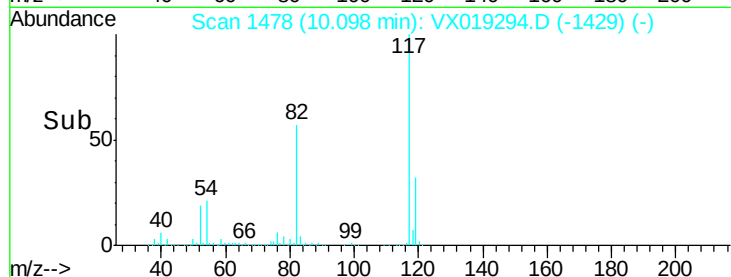
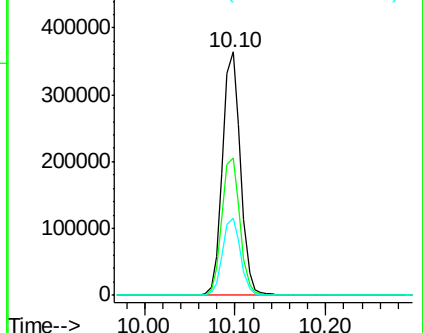
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019294.D
Acq: 05 Nov 2020 00:55

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 502829
Ion Ratio Lower Upper
117 100
82 56.7 43.6 65.4
119 31.9 25.5 38.3

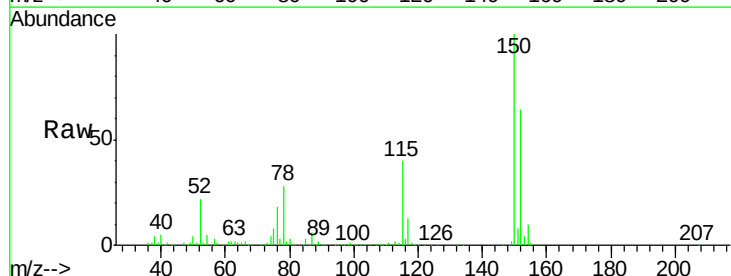


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

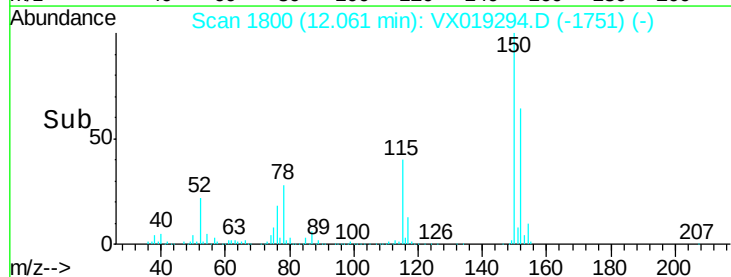
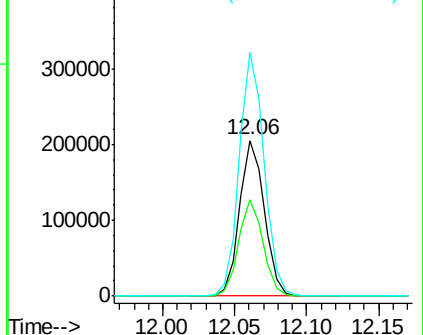


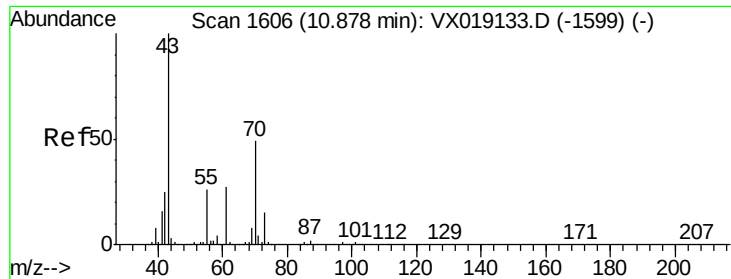
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019294.D
Acq: 05 Nov 2020 00:55

Tgt Ion:152 Resp: 247107
Ion Ratio Lower Upper
152 100
115 60.8 41.9 125.7
150 156.4 0.0 347.8



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-amvl acetate

Concen: 0.428 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 2740

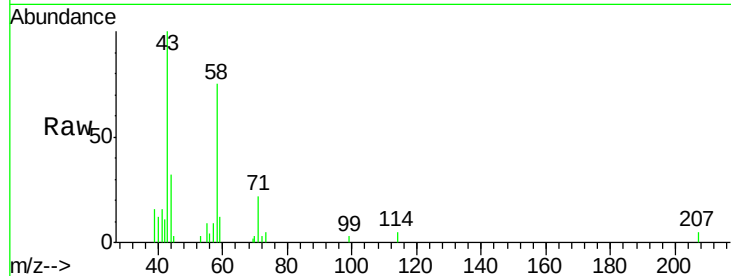
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 8.8 20.7 31.1#

61 0.0 21.9 32.9#

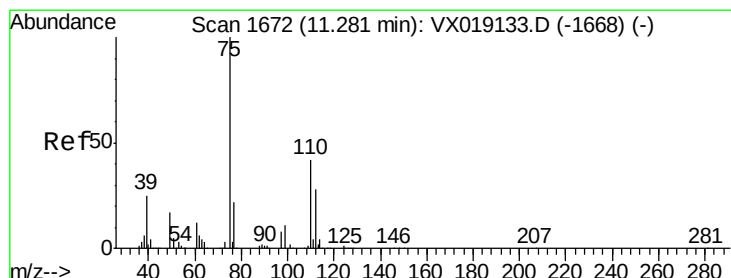
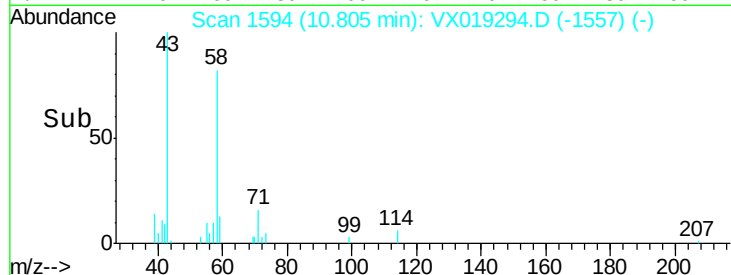
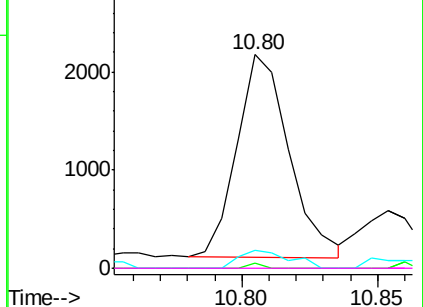


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.780 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019294.D

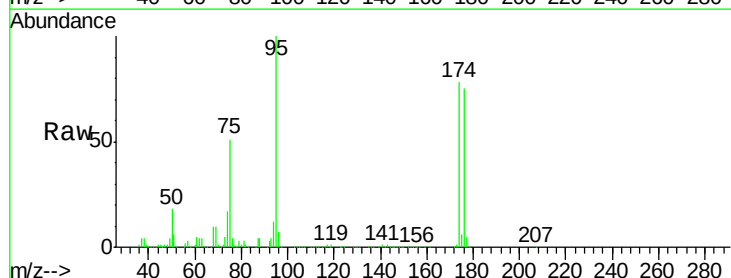
Acq: 05 Nov 2020 00:55

Tgt Ion: 75 Resp: 126433

Ion Ratio Lower Upper

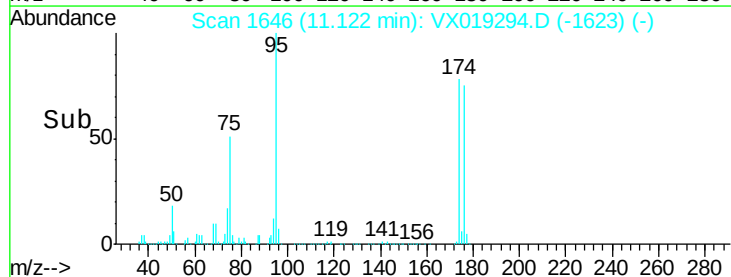
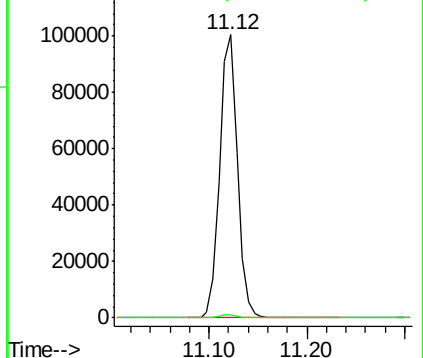
75 100

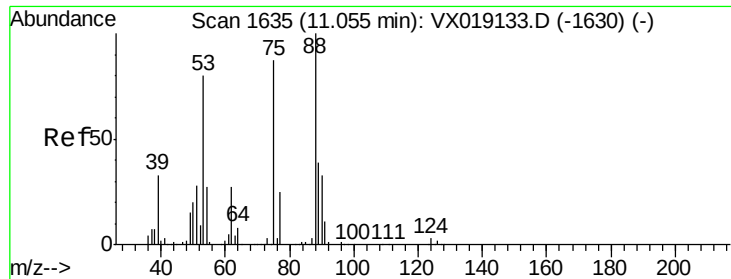
77 1.1 20.3 60.9#



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: 65.245 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019294.D

Acq: 05 Nov 2020 00:55

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 126433

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#

