

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091520\
 Data File : VX018420.D
 Acq On : 15 Sep 2020 20:18
 Operator : JC/SP
 Sample : L4005-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 22-31

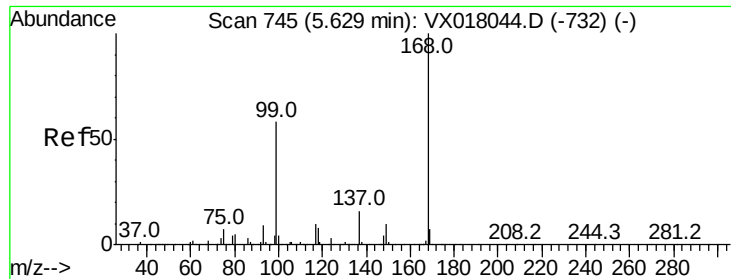
Quant Time: Sep 16 03:39:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	420632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	689031	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	687023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	344994	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	310135	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	
35) Dibromofluoromethane	5.46	113	237191	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
50) Toluene-d8	8.70	98	869728	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	11.12	95	320593	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	564	0.227	ug/l	99
10) Methyl Iodide	2.49	142	421	5.375	ug/l #	68
11) Tert butyl alcohol	2.99	59	4127	3.635	ug/l #	71
13) Acrolein	2.26	56	381	0.809	ug/l #	1
15) Acrylonitrile	3.11	53	576	0.224	ug/l #	34
16) Acetone	2.42	43	395343	173.746	ug/l	93
17) Carbon Disulfide	2.56	76	3925	0.316	ug/l #	77
18) Methyl Acetate	2.75	43	7334	1.336	ug/l	93
20) Methylene Chloride	2.84	84	12160	1.480	ug/l #	94
25) 2-Butanone	4.64	43	8454	2.261	ug/l	98
36) 1,1-Dichloropropene	5.63	75	34123	5.369	ug/l #	51
38) Carbon Tetrachloride	5.62	117	44064	6.152	ug/l #	19
43) Isopropyl Acetate	6.41	43	44068	3.696	ug/l	100
51) 4-Methyl-2-Pentanone	8.59	43	77119	10.472	ug/l #	49
54) cis-1,3-Dichloropropene	8.60	75	28449	3.429	ug/l #	64
59) 2-Hexanone	9.42	43	120874	21.586	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	168449	21.949	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	168449	59.281	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018420.D

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Instrument :

MSVOA_X

ClientSampleId :

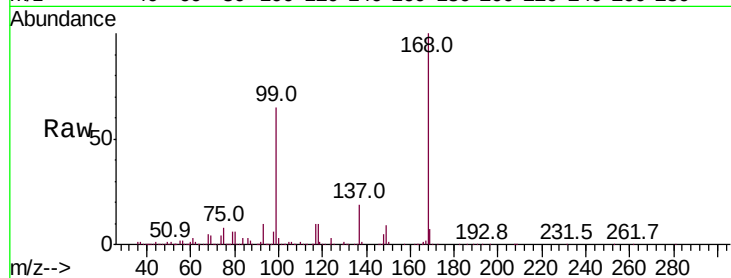
22-31

Tot Ion:168 Resp: 420632

Ion Ratio Lower Upper

168 100

99 64.5 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

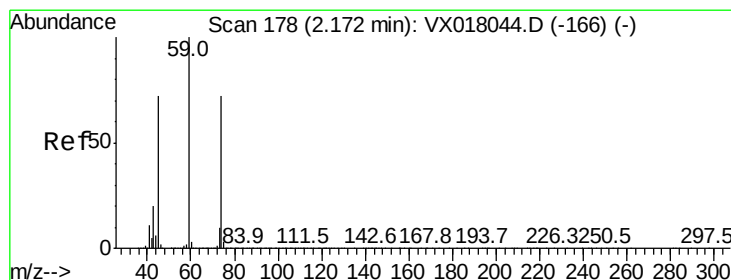
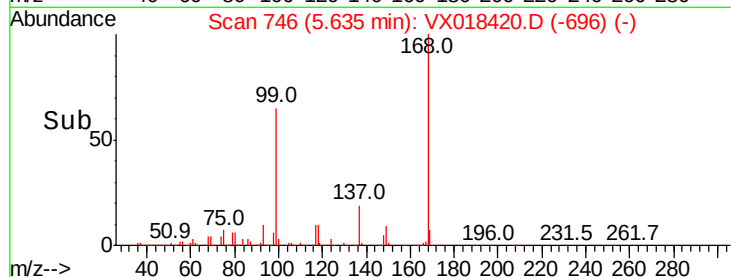
100000

50000

0

5.50 5.60 5.70

Time-->



#8

Diethyl Ether

Concen: 0.227 ug/l

RT: 2.17 min Scan# 178

Delta R.T. -0.00 min

Lab File: VX018420.D

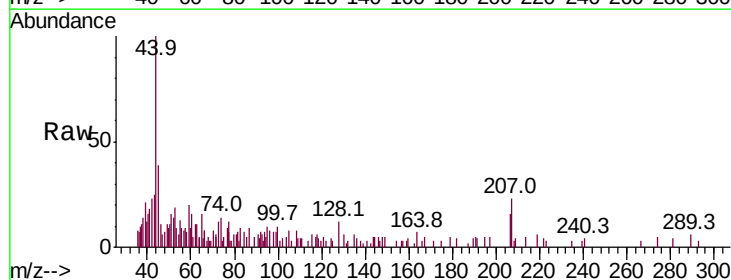
Acq: 15 Sep 2020 20:18

Tgt Ion: 74 Resp: 564

Ion Ratio Lower Upper

74 100

45 100.9 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1200

1000

800

600

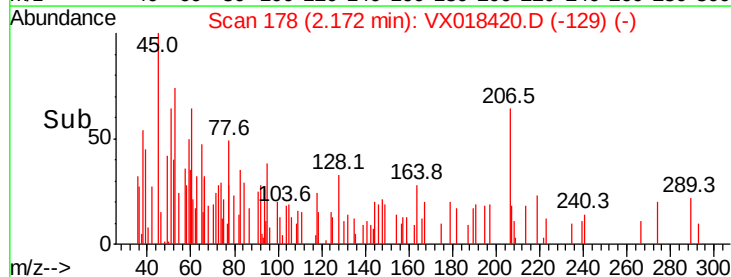
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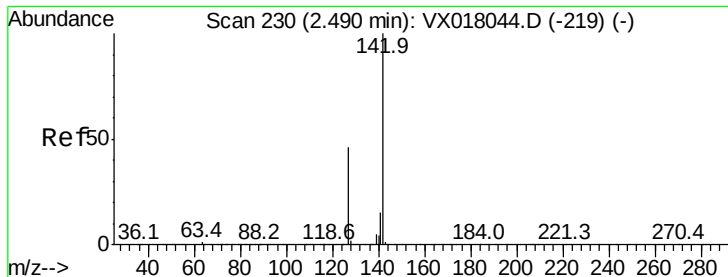
200

0

2.14 2.16 2.18

Time-->

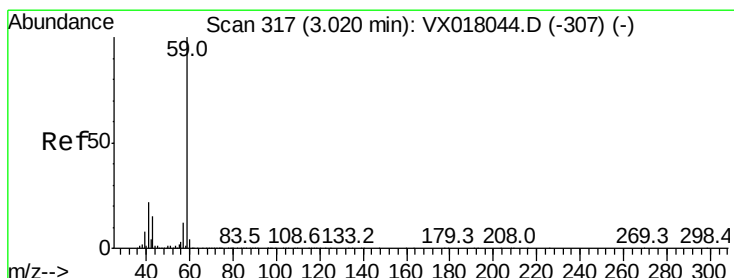
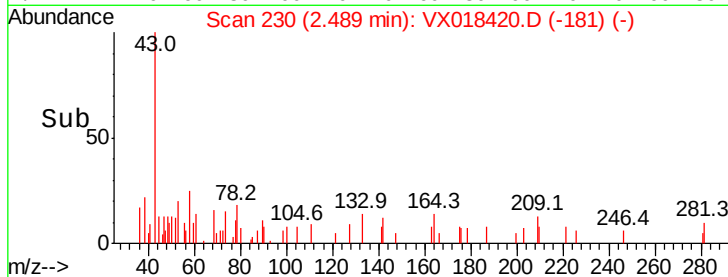
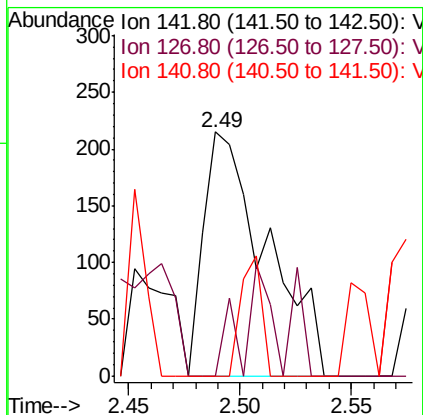
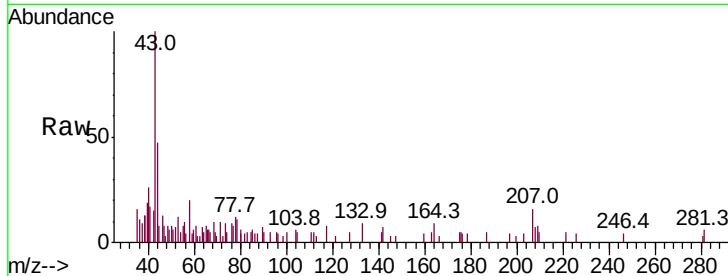




#10
Methvl Iodide
Concen: 5.375 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.00 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

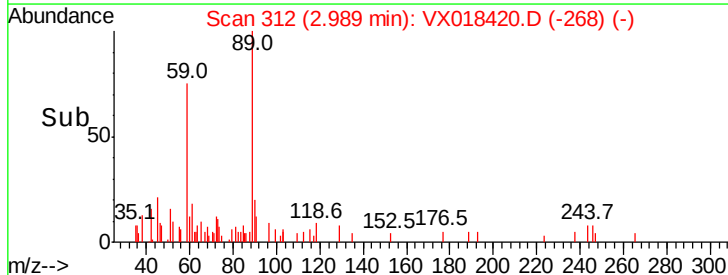
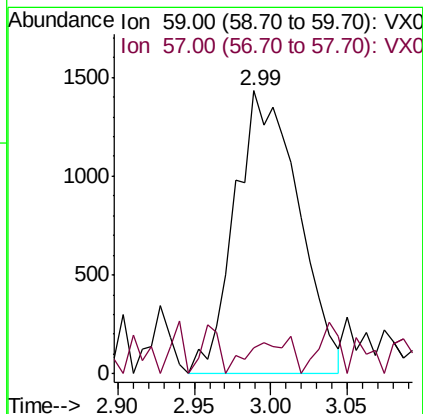
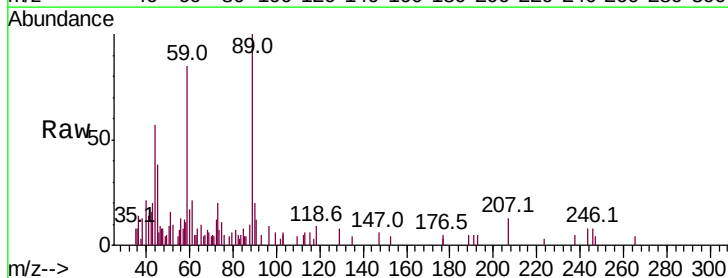
Instrument :
MSVOA_X
ClientSampled :
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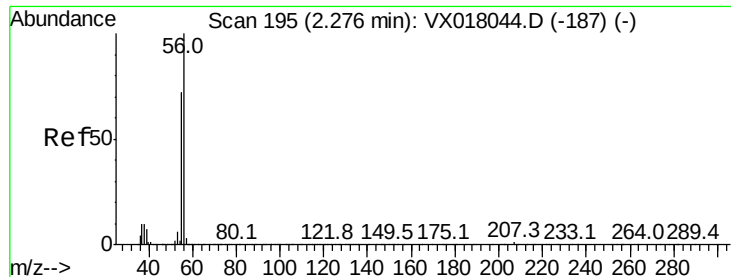
Tot Ion:142 Resp: 421
Ion Ratio Lower Upper
142 100
127 20.0 37.0 55.6#
141 16.6 11.5 17.3



#11
Tert butyl alcohol
Concen: 3.635 ug/l
RT: 2.99 min Scan# 312
Delta R.T. -0.03 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

Tgt Ion: 59 Resp: 4127
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#





#13

Acrolein

Concen: 0.809 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.02 min

Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

Instrument :

MSVOA_X

ClientSampled :

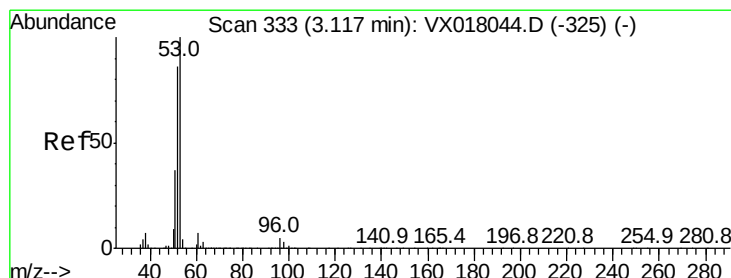
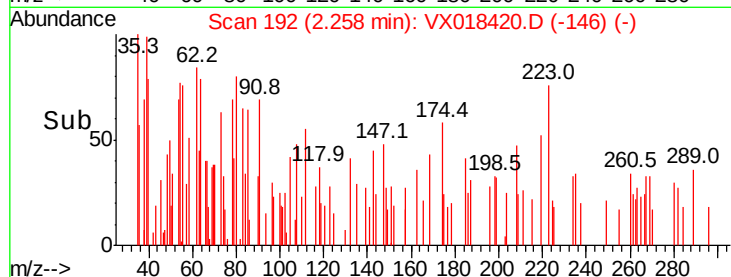
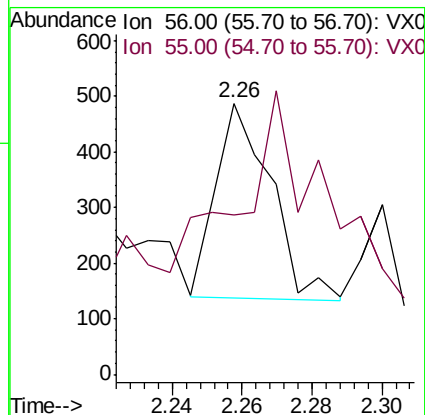
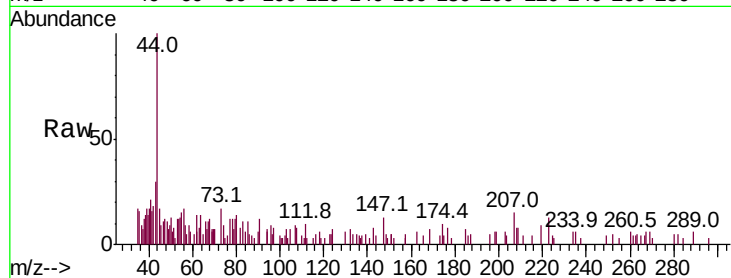
22-31

Tot Ion: 56 Resp: 381

Ion Ratio Lower Upper

56 100

55 248.3 57.0 85.6#



#15

Acrylonitrile

Concen: 0.224 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

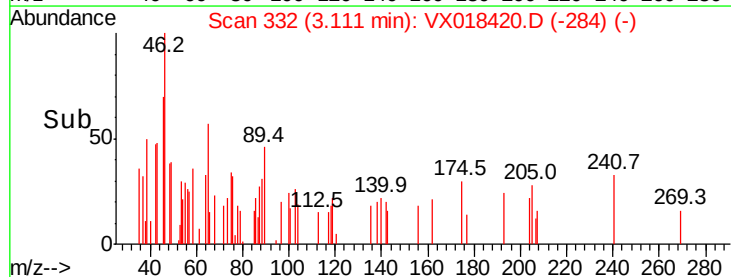
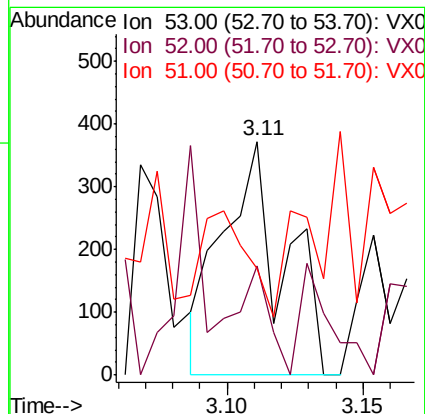
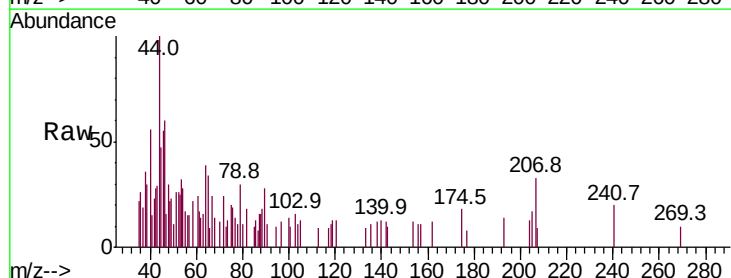
Tgt Ion: 53 Resp: 576

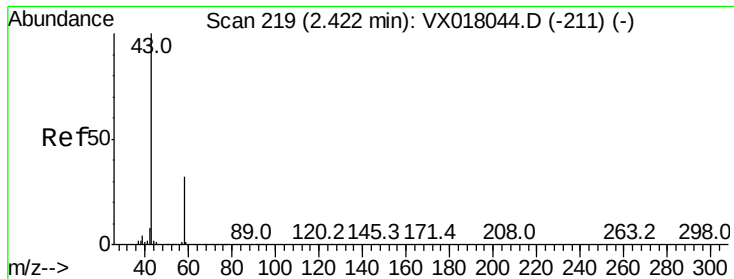
Ion Ratio Lower Upper

53 100

52 21.7 66.9 100.3#

51 0.0 28.7 43.1#





#16

Acetone

Concen: 173.746 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

Instrument :

MSVOA_X

ClientSampled :

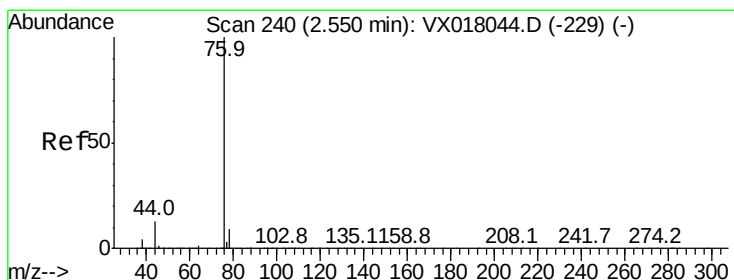
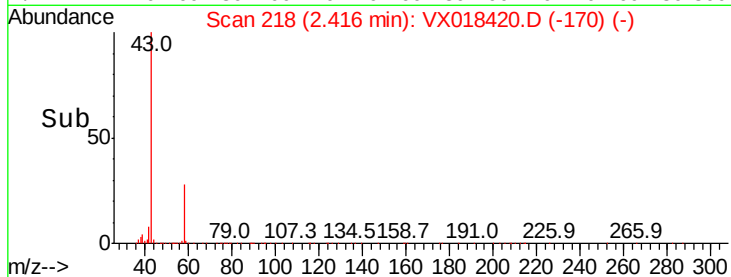
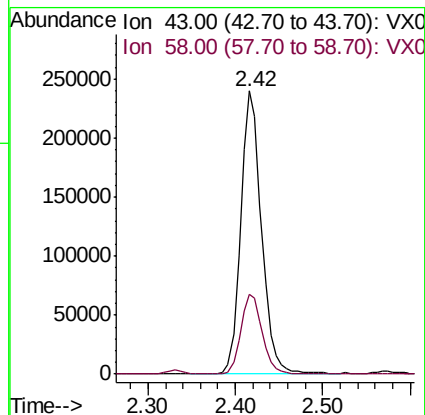
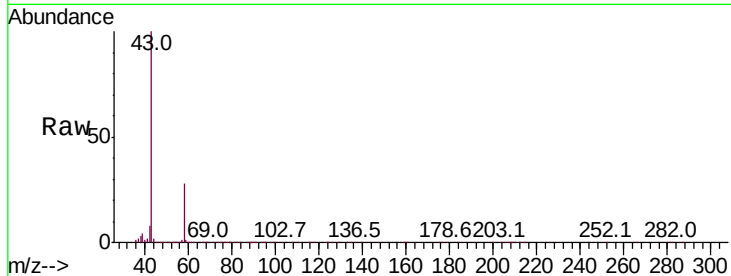
22-31

Tot Ion: 43 Resp: 395343

Ion Ratio Lower Upper

43 100

58 28.0 25.5 38.3



#17

Carbon Disulfide

Concen: 0.316 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018420.D

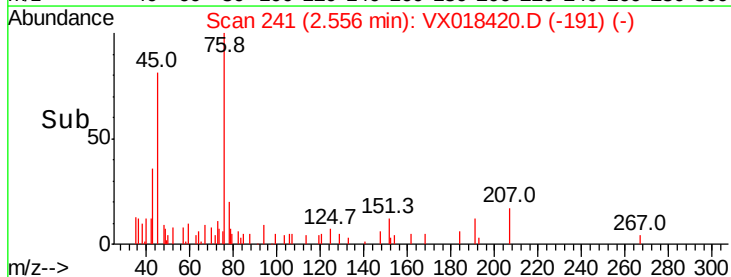
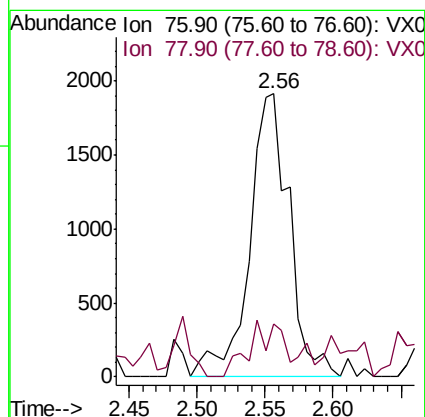
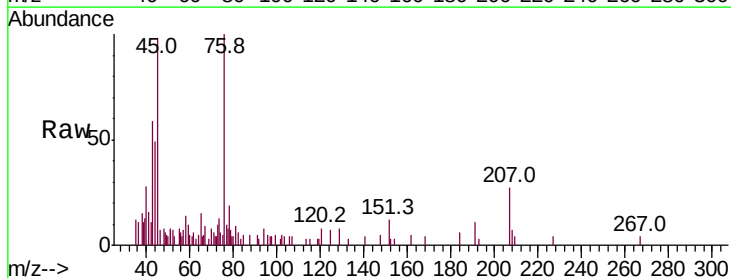
Acq: 15 Sep 2020 20:18

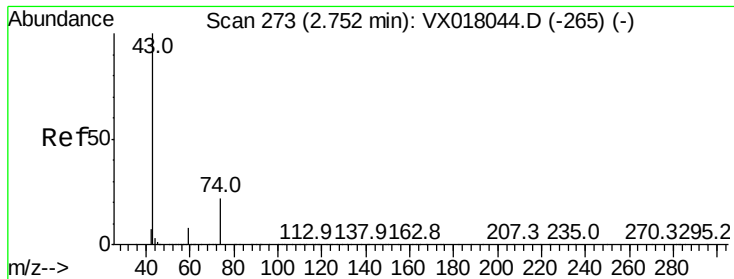
Tgt Ion: 76 Resp: 3925

Ion Ratio Lower Upper

76 100

78 17.6 7.4 11.0#

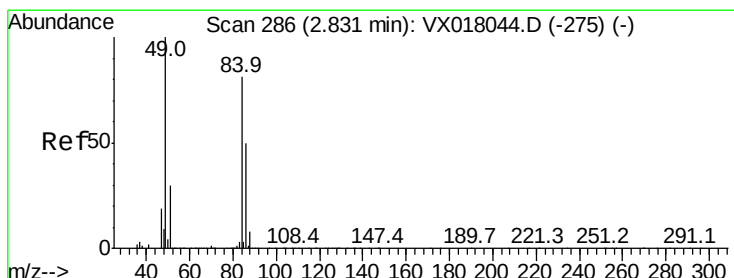
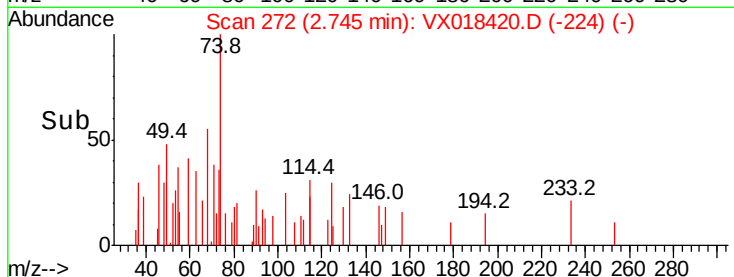
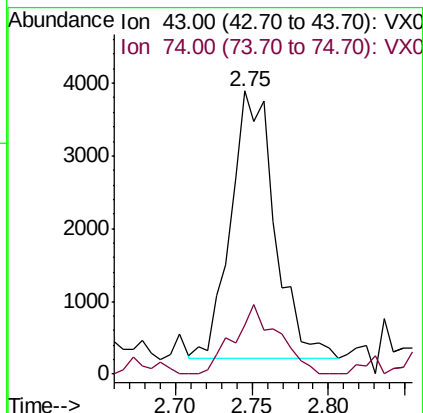
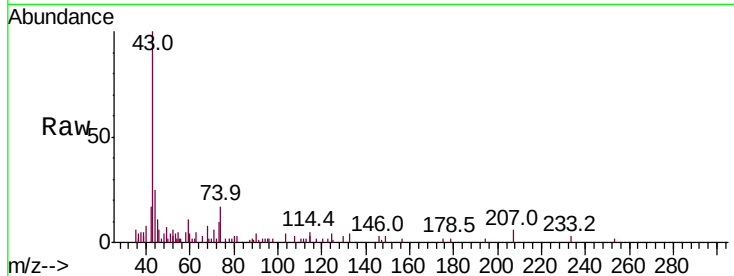




#18
Methvl Acetate
Concen: 1.336 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

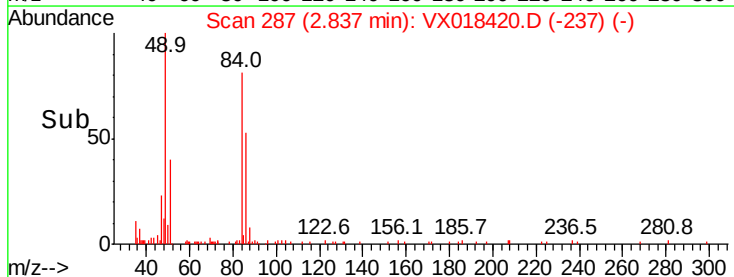
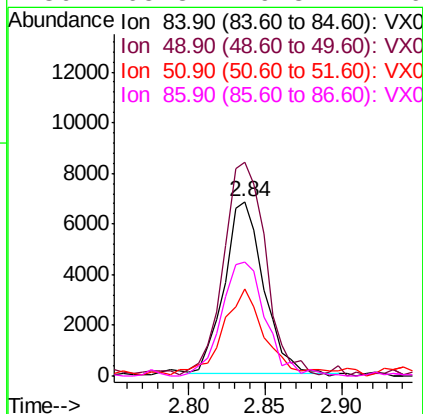
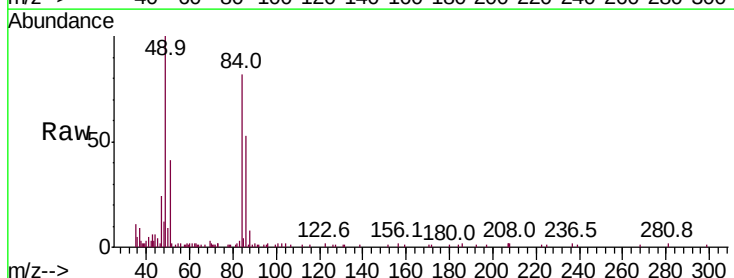
Instrument :
MSVOA_X
ClientSampleId :
22-31

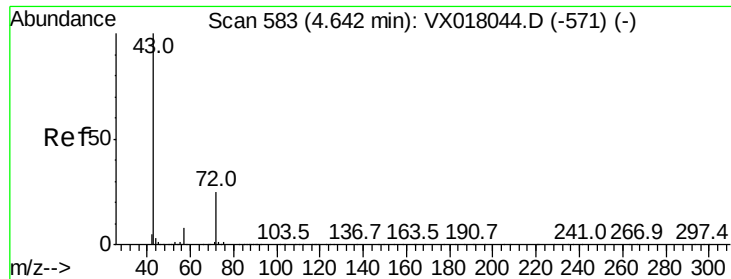
Tot Ion: 43 Resp: 7334
Ion Ratio Lower Upper
43 100
74 26.4 18.2 27.4



#20
Methylene Chloride
Concen: 1.480 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

Tgt Ion: 84 Resp: 12160
Ion Ratio Lower Upper
84 100
49 120.2 98.6 148.0
51 47.5 29.6 44.4#
86 65.3 49.8 74.6

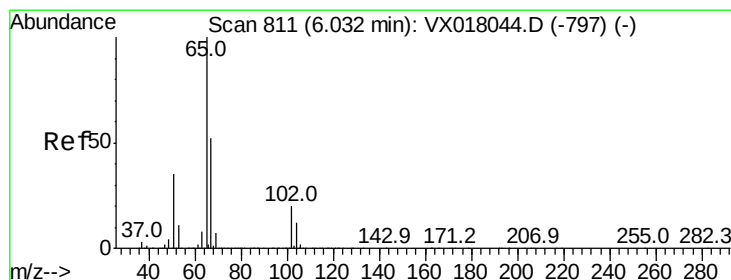
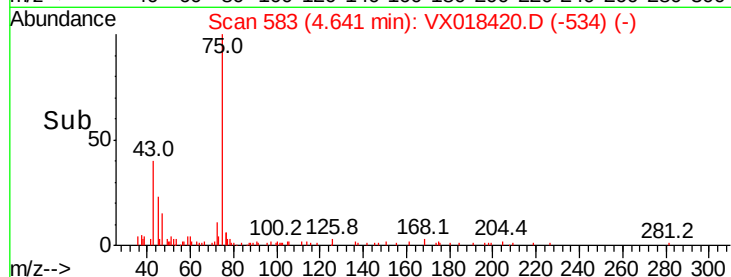
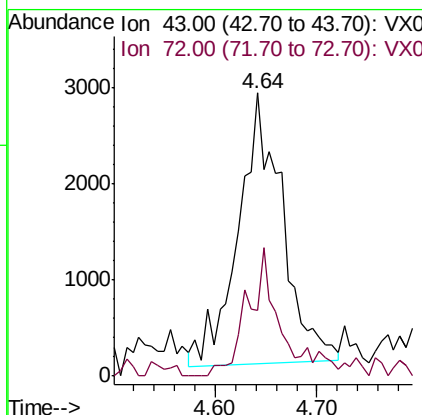
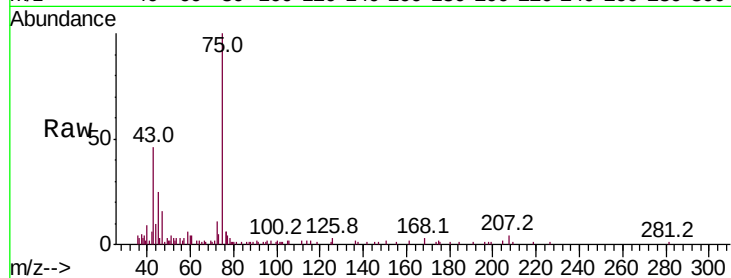




#25
2-Butanone
Concen: 2.261 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

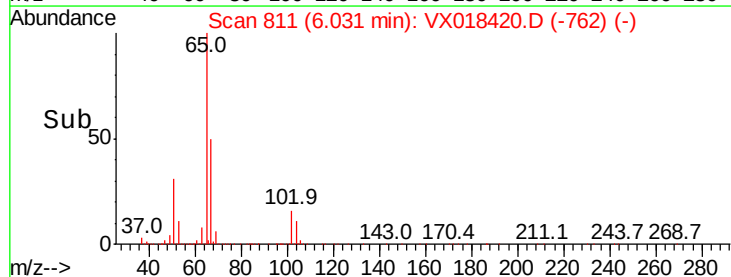
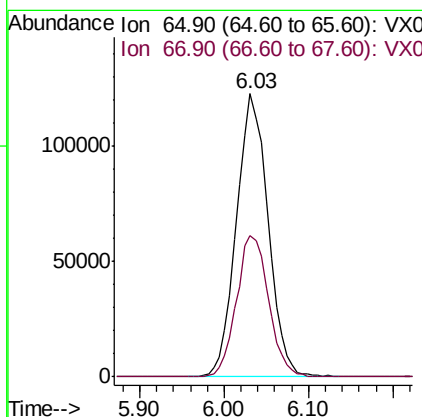
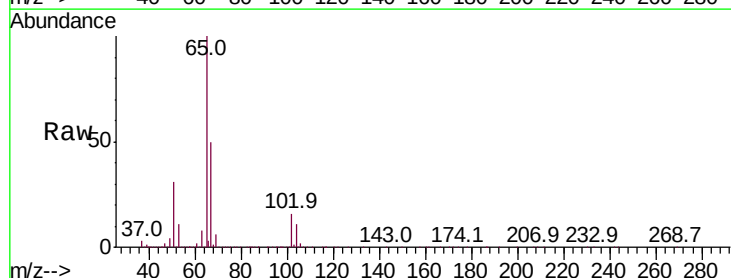
Instrument :
MSVOA_X
ClientSampled :
22-31

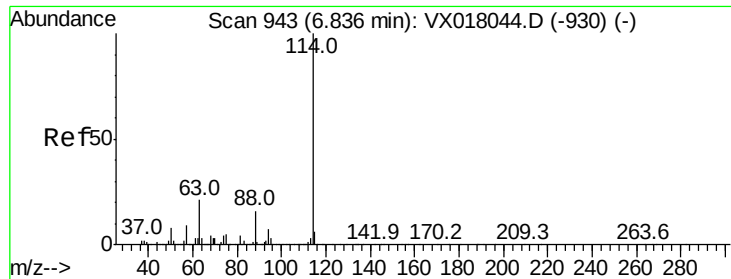
Tot Ion: 43 Resp: 8454
Ion Ratio Lower Upper
43 100
72 25.5 19.8 29.6



#33
1,2-Dichloroethane-d4
Concen: 53.110 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

Tgt Ion: 65 Resp: 310135
Ion Ratio Lower Upper
65 100
67 50.8 0.0 105.8

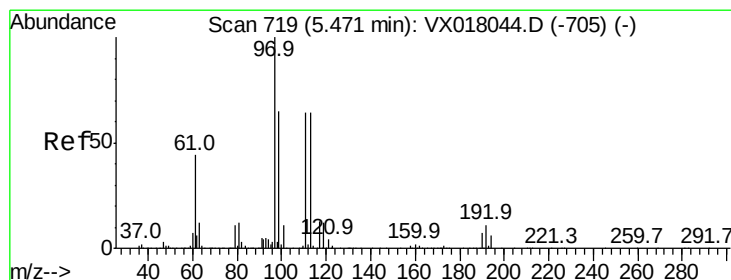
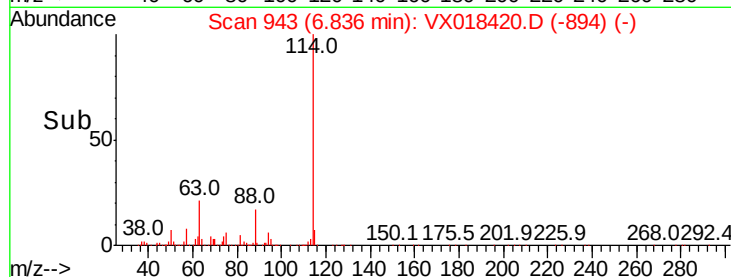
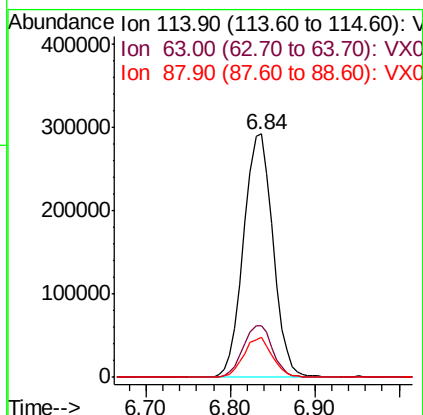
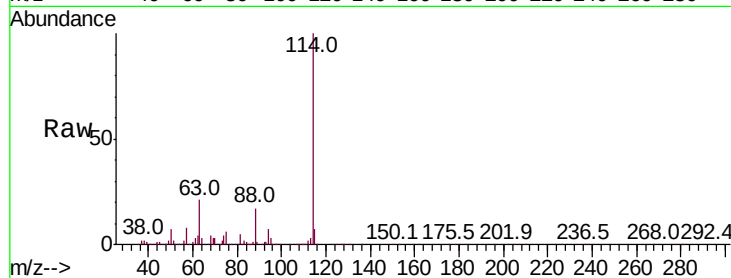




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: VX018420.D
 Acq: 15 Sep 2020 20:18

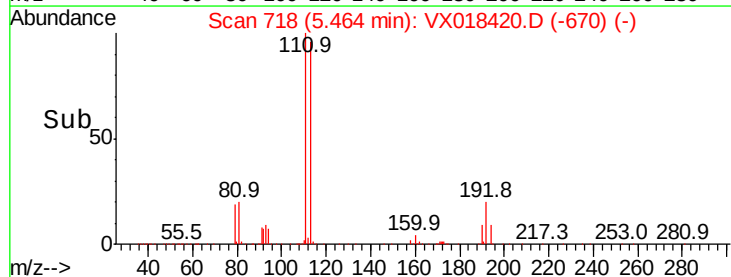
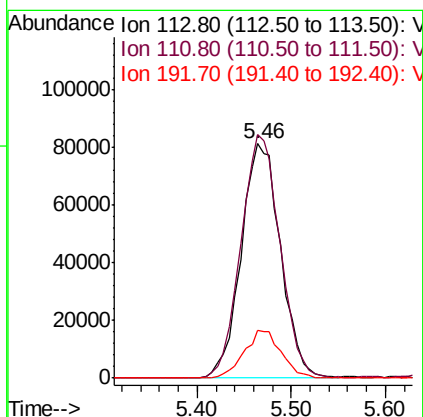
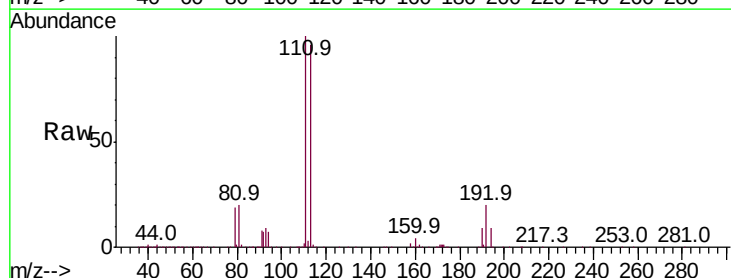
Instrument :
 MSVOA_X
 ClientSampleId :
 22-31

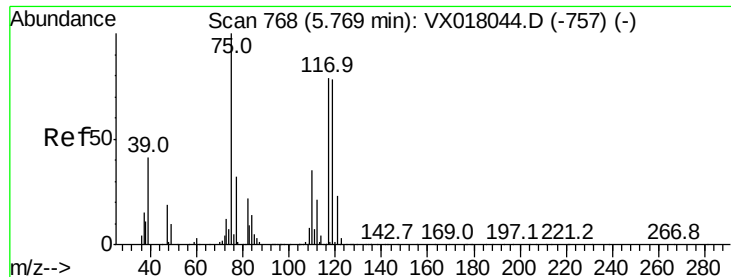
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	16.5	0.0	31.8



#35
 Dibromofluoromethane
 Concen: 50.545 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX018420.D
 Acq: 15 Sep 2020 20:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.6	122.4
192	19.5	15.8	23.8





#36

1,1-Dichloropropene

Concen: 5.369 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

Instrument :

MSVOA_X

ClientSampleId :

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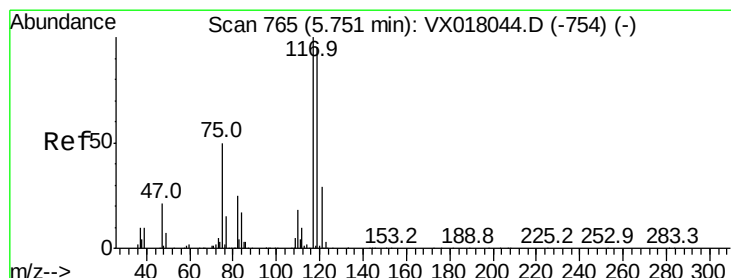
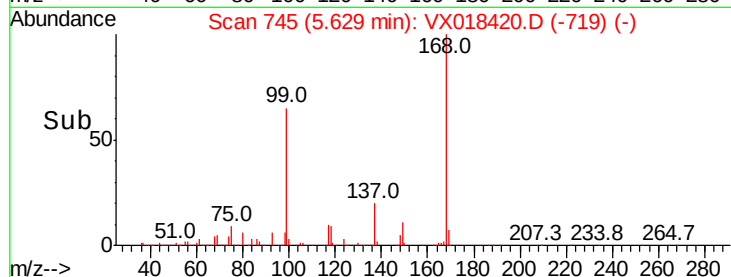
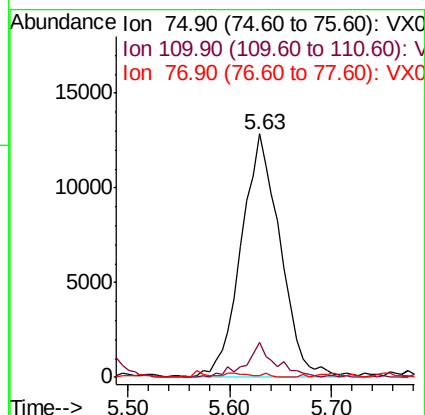
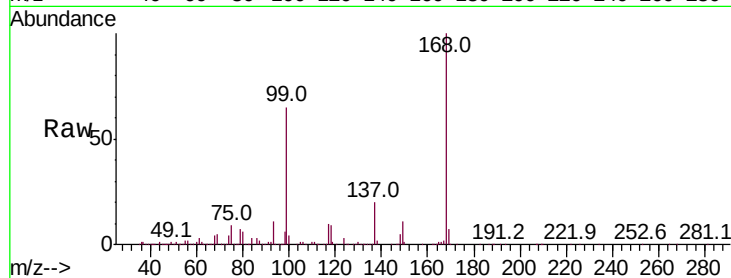
Tot Ion: 75 Resp: 34123

Ion Ratio Lower Upper

75 100

110 10.9 18.0 54.0#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.152 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

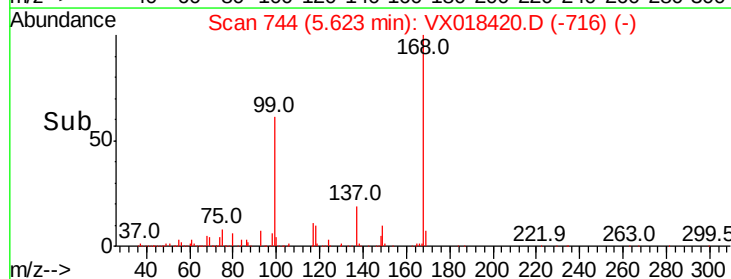
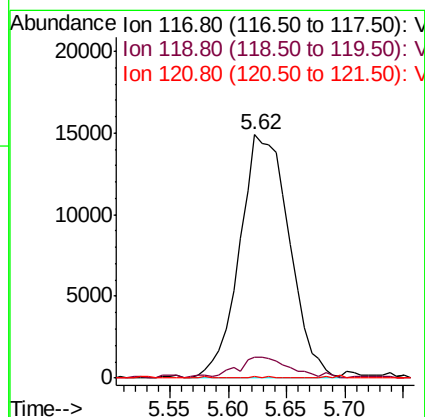
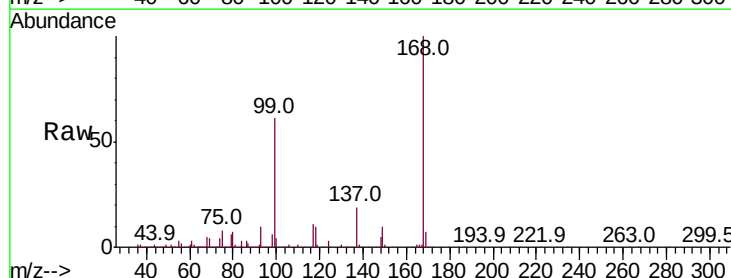
Tgt Ion: 117 Resp: 44064

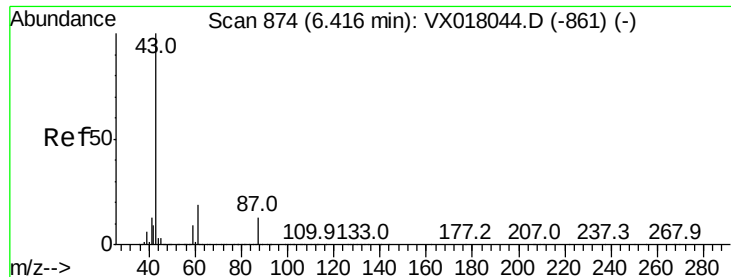
Ion Ratio Lower Upper

117 100

119 8.4 75.8 113.6#

121 0.8 23.4 35.0#





#43

Isopropyl Acetate

Concen: 3.696 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.01 min

Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

Instrument :

MSVOA_X

ClientSampleId :

22-31

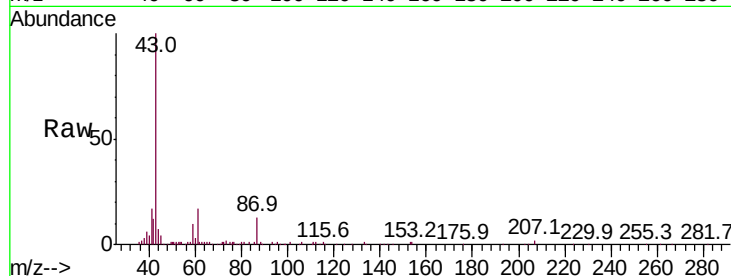
Tot Ion: 43 Resp: 44068

Ion Ratio Lower Upper

43 100

61 19.6 15.7 23.5

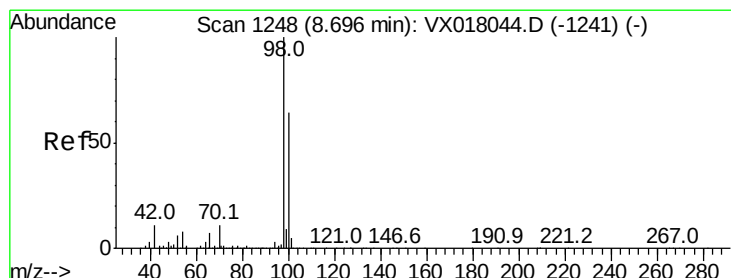
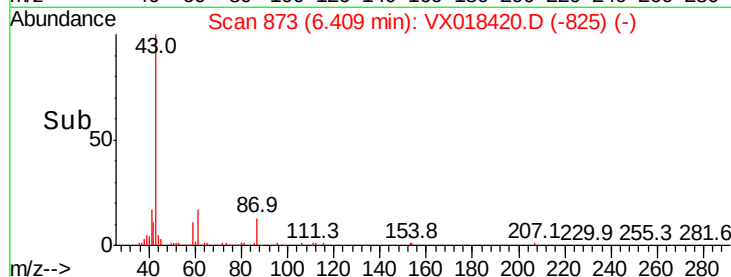
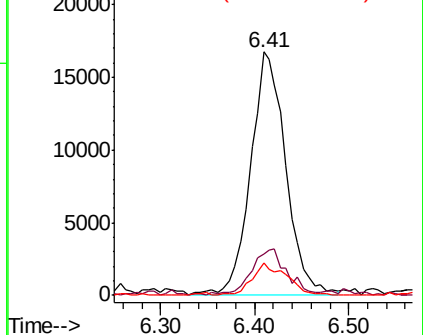
87 12.9 10.3 15.5



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



#50

Toluene-d8

Concen: 49.761 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018420.D

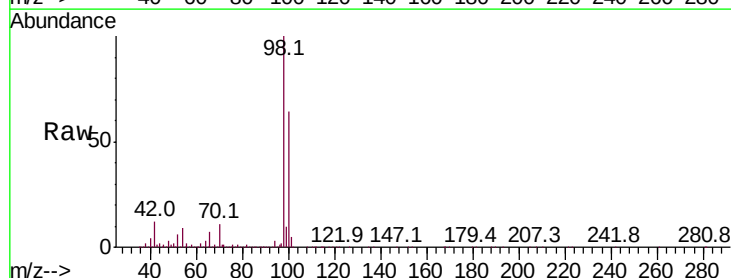
Acq: 15 Sep 2020 20:18

Tgt Ion: 98 Resp: 869728

Ion Ratio Lower Upper

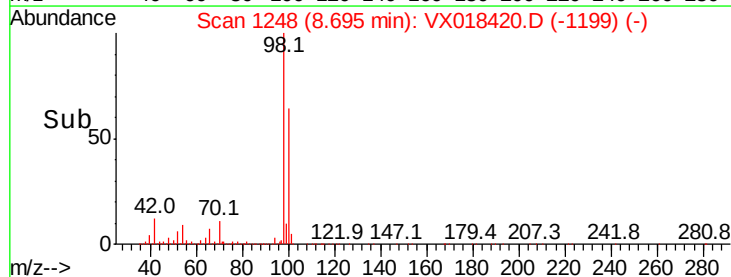
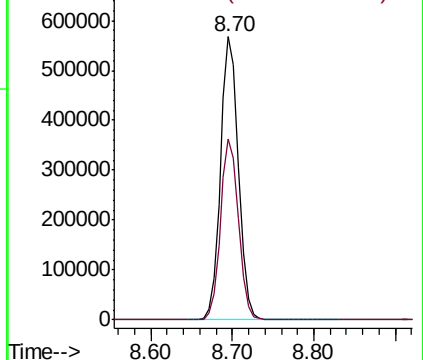
98 100

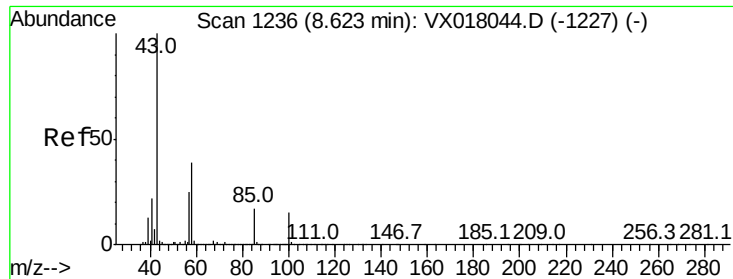
100 63.9 52.2 78.4



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: 10.472 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

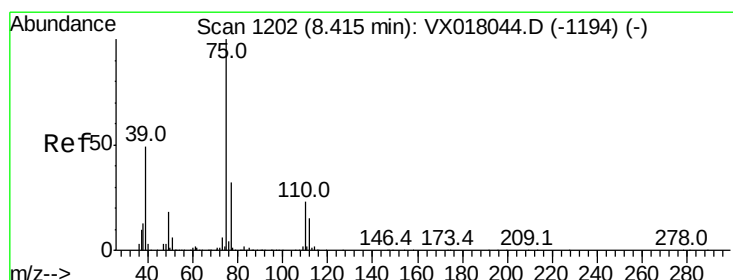
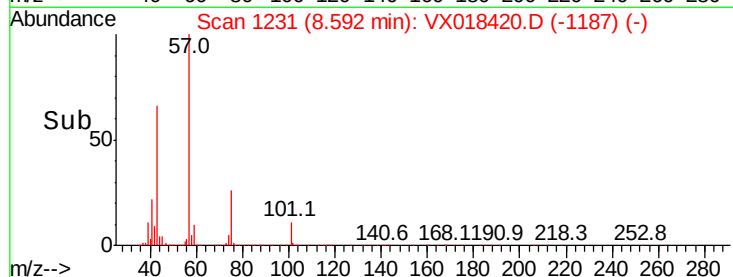
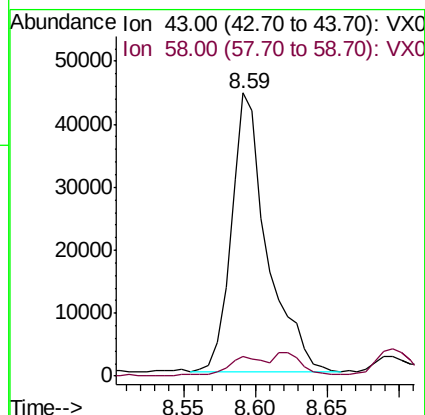
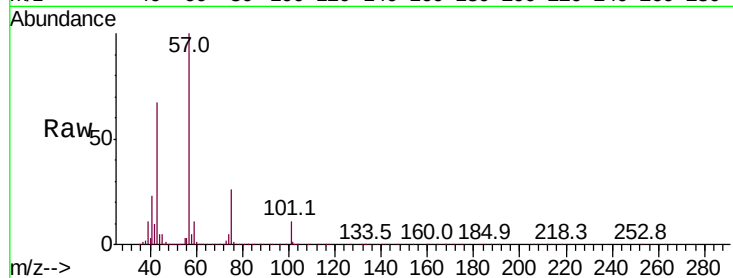
Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

Instrument :
MSVOA_X
ClientSampled :
22-31

Tot Ion: 43 Resp: 77119

Ion	Ratio	Lower	Upper
43	100		
58	7.7	30.7	46.1#



#54

cis-1,3-Dichloropropene

Concen: 3.429 ug/l

RT: 8.60 min Scan# 1232

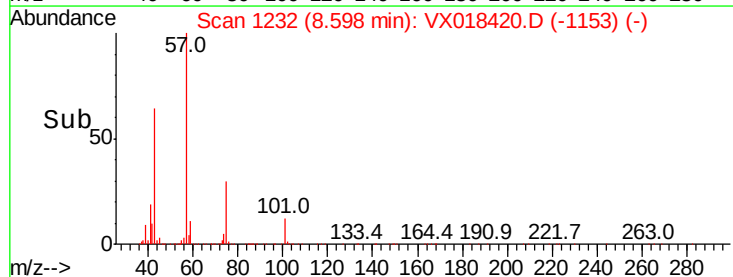
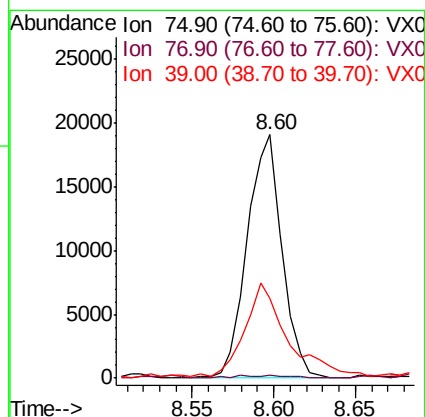
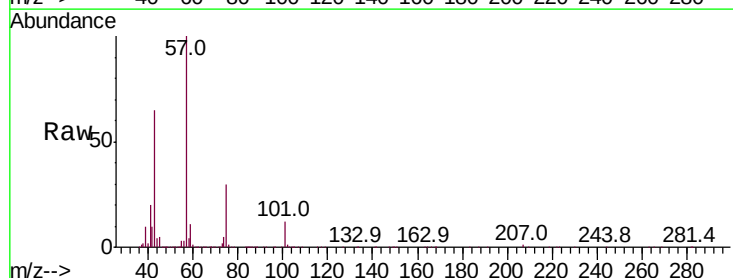
Delta R.T. 0.18 min

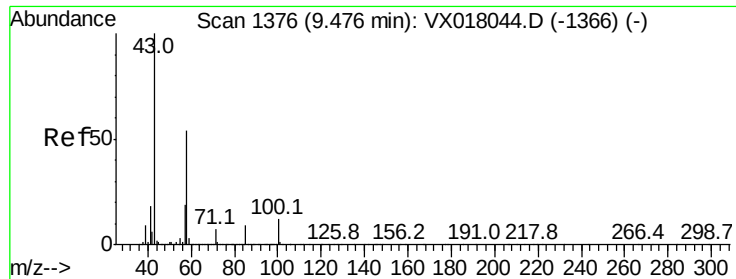
Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

Tgt Ion: 75 Resp: 28449

Ion	Ratio	Lower	Upper
75	100		
77	1.4	25.8	38.8#
39	32.2	38.8	58.2#

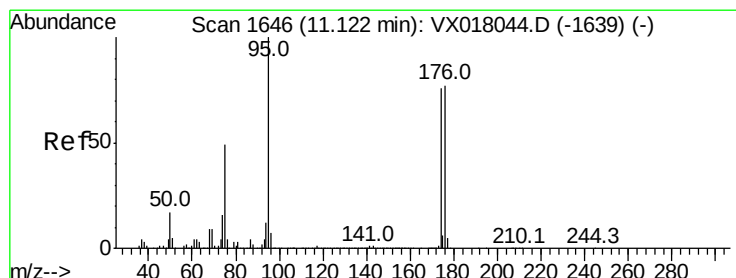
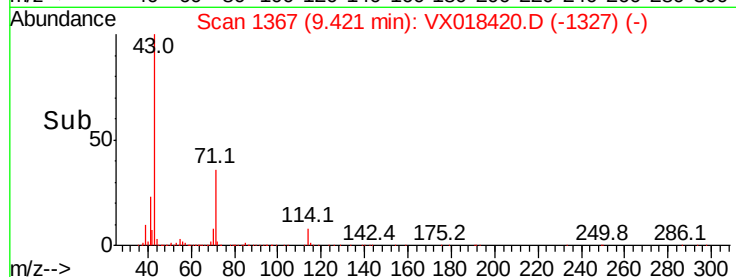
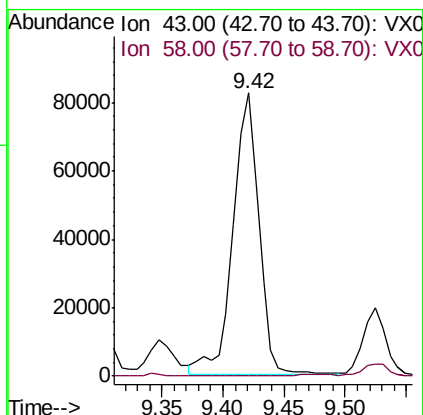
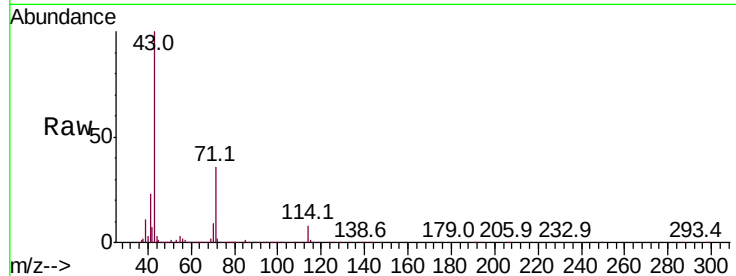




#59
2-Hexanone
Concen: 21.586 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.06 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

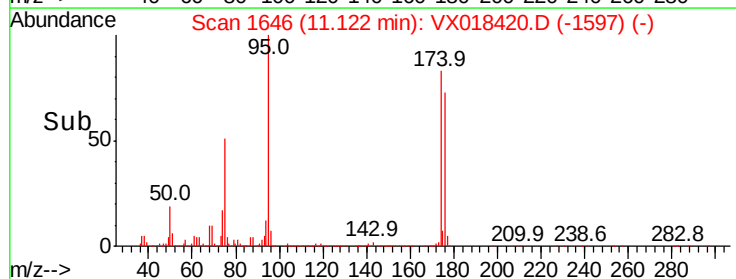
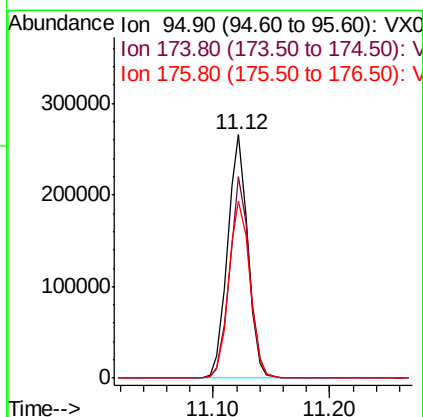
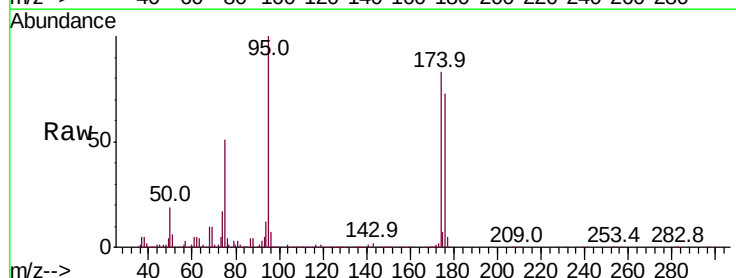
Instrument :
MSVOA_X
ClientSampleId :
22-31

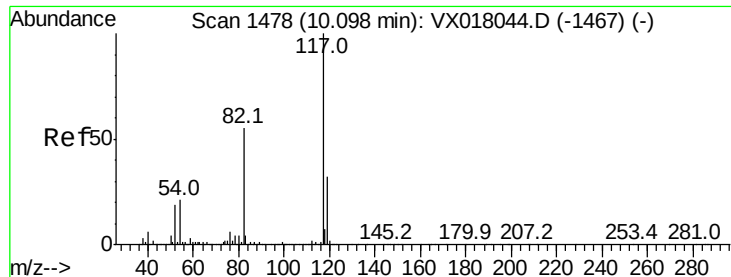
Tot Ion: 43 Resp: 120874
Ion Ratio Lower Upper
43 100
58 0.2 26.6 79.7#



#62
4-Bromofluorobenzene
Concen: 46.621 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

Tgt Ion: 95 Resp: 320593
Ion Ratio Lower Upper
95 100
174 81.7 0.0 160.2
176 76.2 0.0 155.8

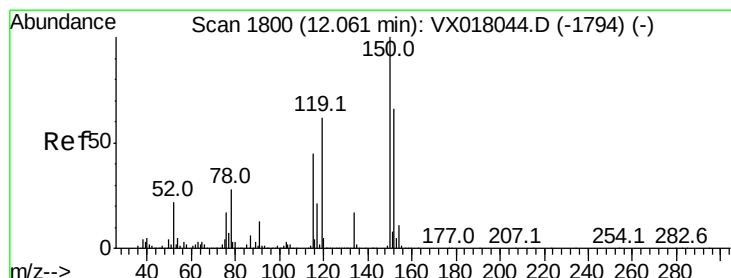
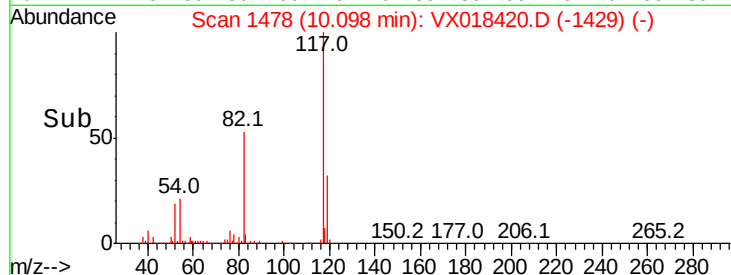
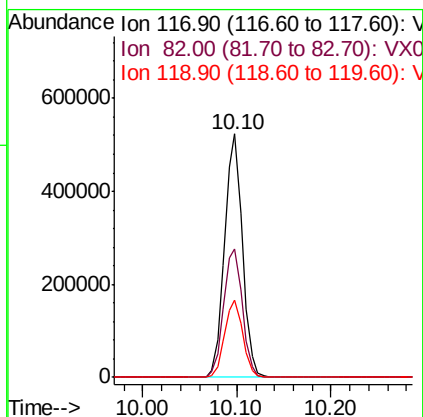
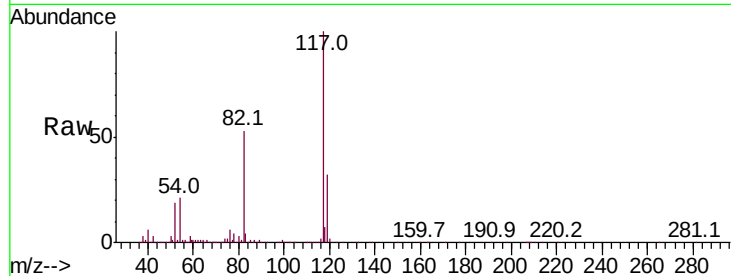




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

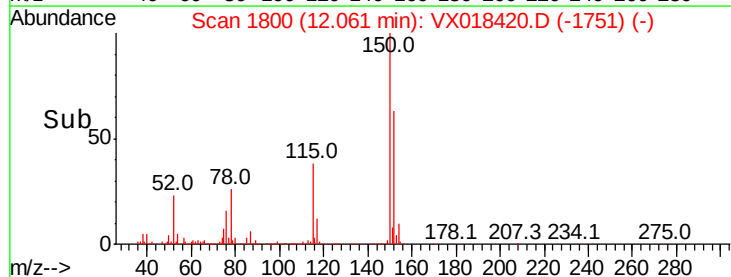
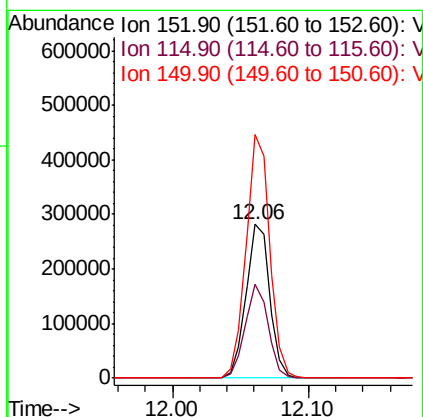
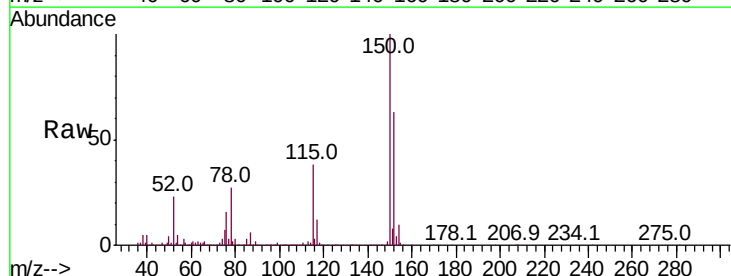
Instrument :
MSVOA_X
ClientSampleId :
22-31

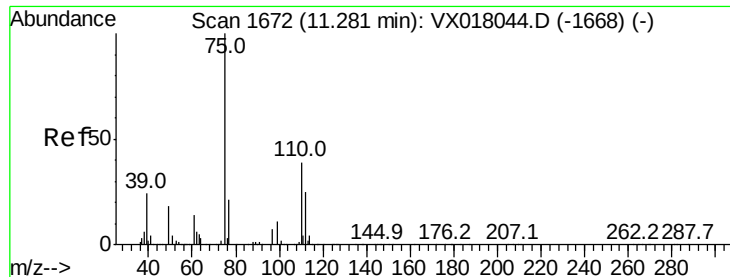
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.9	44.2	66.2
119	31.7	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018420.D
Acq: 15 Sep 2020 20:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.1	41.5	124.5
150	157.5	0.0	343.8





#76

1,2,3-Trichloropropane

Concen: 21.949 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

Instrument :

MSVOA_X

ClientSampled :

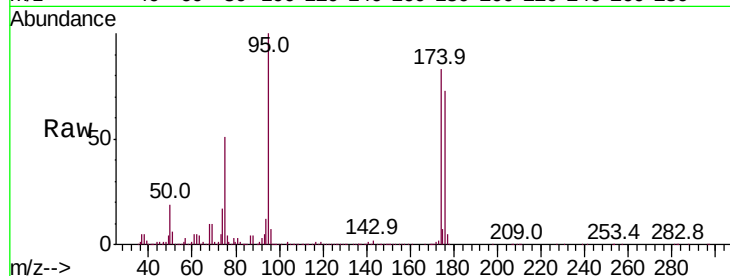
22-31

Tot Ion: 75 Resp: 168449

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

150000

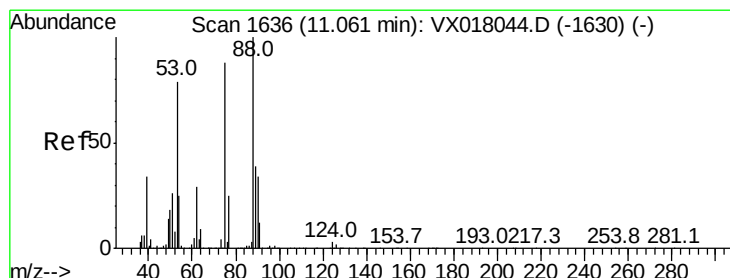
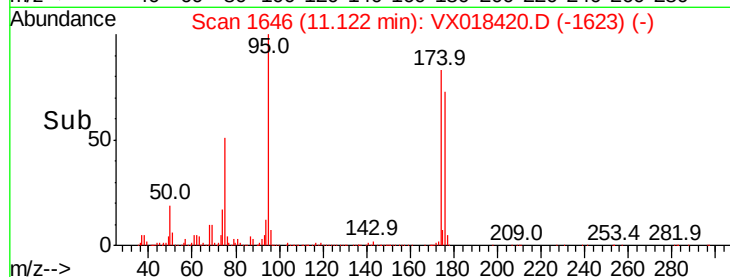
100000

50000

0

Time-->

11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 59.281 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018420.D

Acq: 15 Sep 2020 20:18

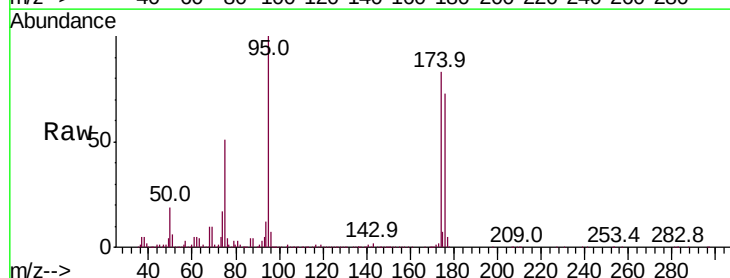
Tgt Ion: 75 Resp: 168449

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.6 54.8#



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

11.12

150000

100000

50000

0

Time-->

11.05 11.10 11.15 11.20

