

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072720\
 Data File : VX017640.D
 Acq On : 28 Jul 2020 00:15
 Operator : JC/SP
 Sample : L3442-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SY-2R

Quant Time: Jul 28 01:40:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	479500	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	760223	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	812164	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	442873	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	324596	52.70	ug/l	0.00
Spiked Amount			Recovery	=	105.40%	
35) Dibromofluoromethane	5.47	113	272346	53.56	ug/l	0.00
Spiked Amount			Recovery	=	107.12%	
50) Toluene-d8	8.70	98	930193	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	11.12	95	406725	55.41	ug/l	0.00
Spiked Amount			Recovery	=	110.82%	

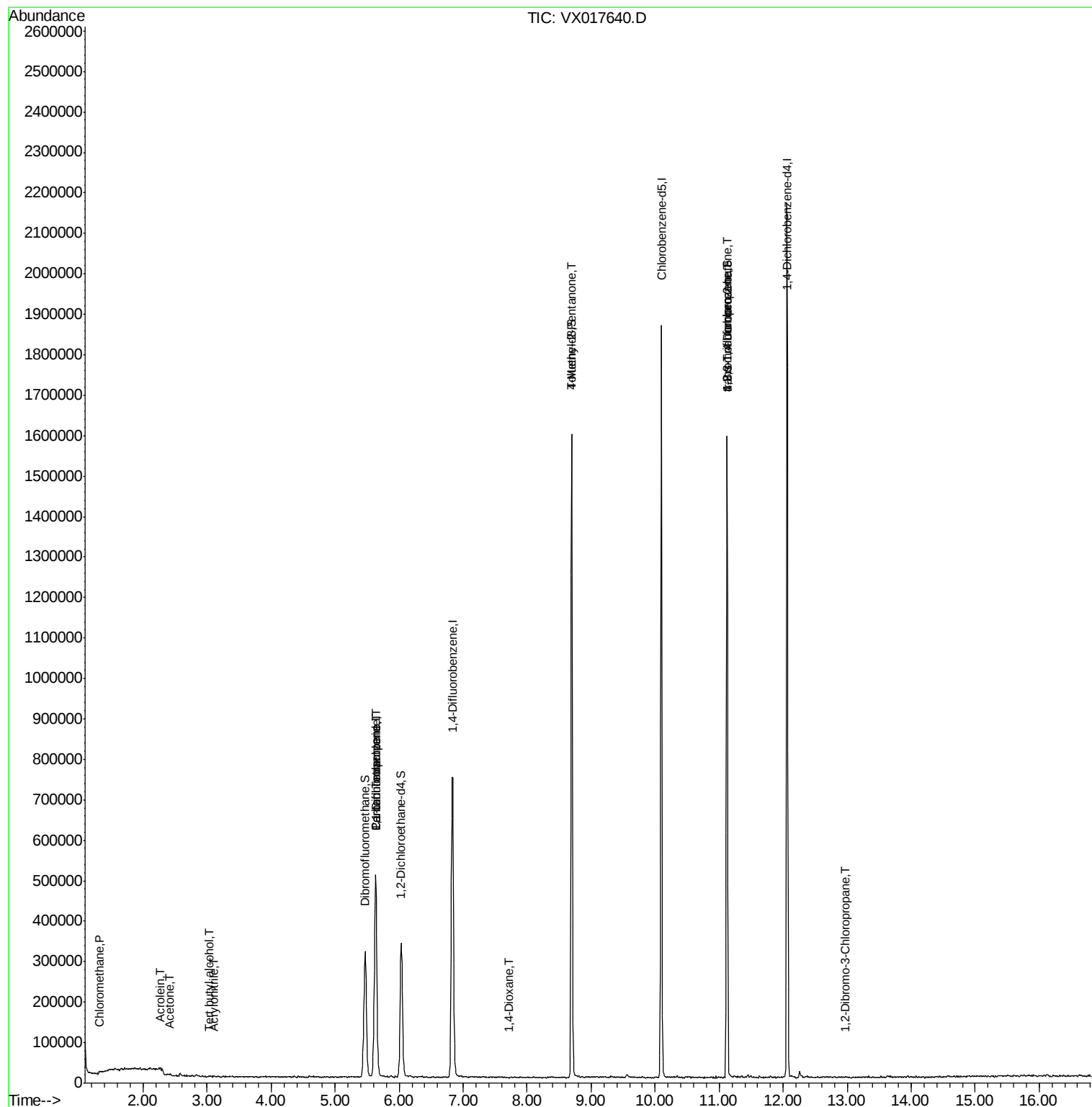
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	526	Below Cal	#	56
3) Chloromethane	1.31	50	2441	0.776	ug/l #	81
5) Bromomethane	1.62	94	301	Below Cal	#	64
6) Chloroethane	1.71	64	533	Below Cal	#	44
8) Diethyl Ether	2.13	74	498	Below Cal		87
11) Tert butyl alcohol	3.03	59	305	0.235	ug/l #	72
13) Acrolein	2.28	56	461	4.606	ug/l #	51
15) Acrylonitrile	3.09	53	728	0.260	ug/l #	58
16) Acetone	2.42	43	8658	3.194	ug/l #	76
20) Methylene Chloride	2.85	84	2411	Below Cal	#	46
36) 1,1-Dichloropropene	5.63	75	34459	4.726	ug/l #	51
38) Carbon Tetrachloride	5.64	117	48999	5.534	ug/l #	20
49) 1,4-Dioxane	7.70	88	199	1.591	ug/l #	50
51) 4-Methyl-2-Pentanone	8.70	43	5115	0.651	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	208568	22.894	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	208568	57.688	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.97	75	155	2.631	ug/l #	10

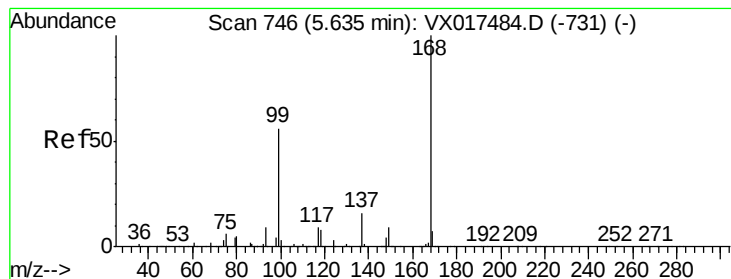
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampleId :

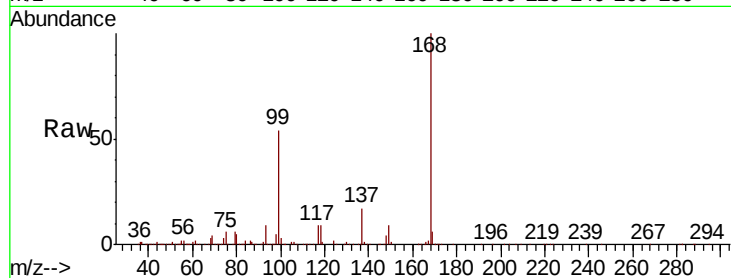
SY-2R

Tot Ion:168 Resp: 479500

Ion Ratio Lower Upper

168 100

99 53.8 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

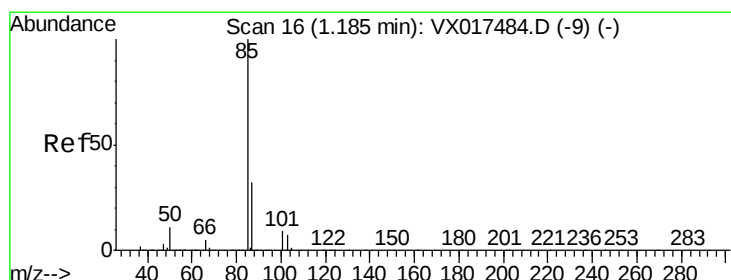
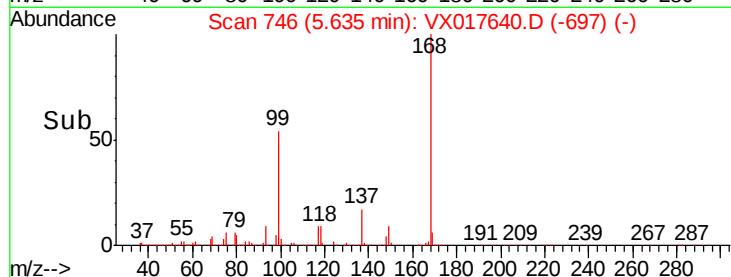
100000

50000

0

Time-->

5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017640.D

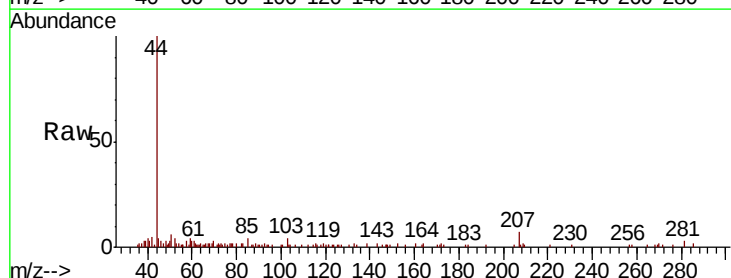
Acq: 28 Jul 2020 00:15

Tgt Ion: 85 Resp: 526

Ion Ratio Lower Upper

85 100

87 7.4 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

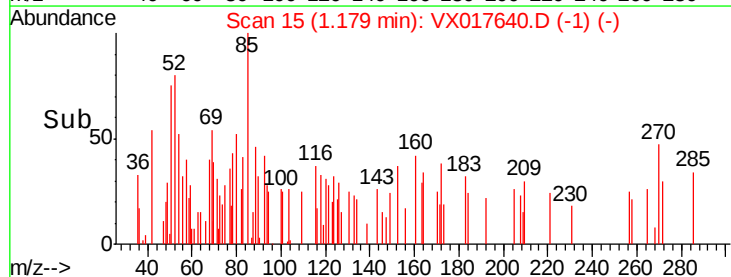
200

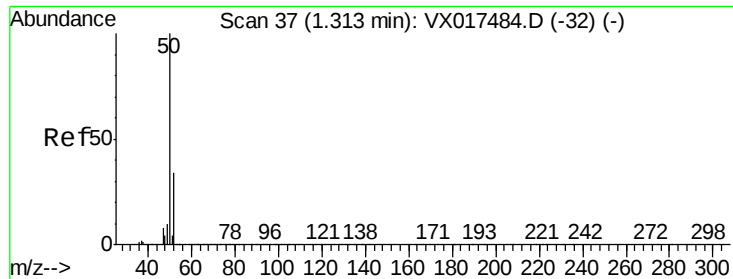
100

0

Time-->

1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.776 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampleId :

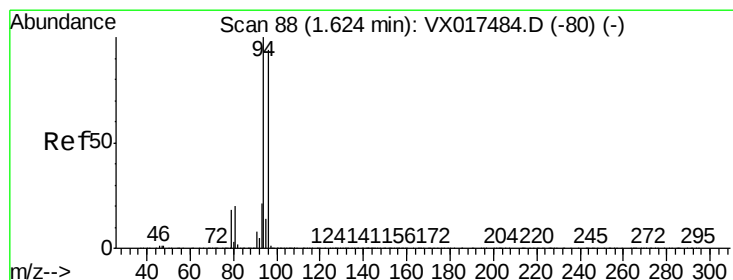
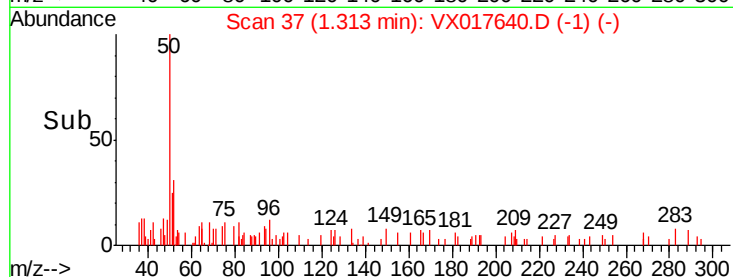
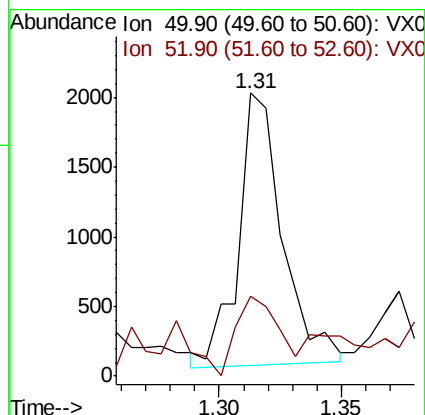
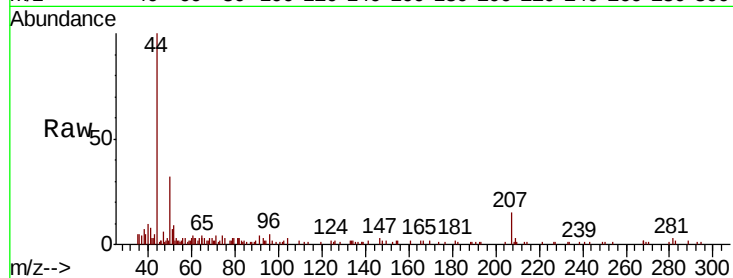
SY-2R

Tot Ion: 50 Resp: 2441

Ion Ratio Lower Upper

50 100

52 21.7 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX017640.D

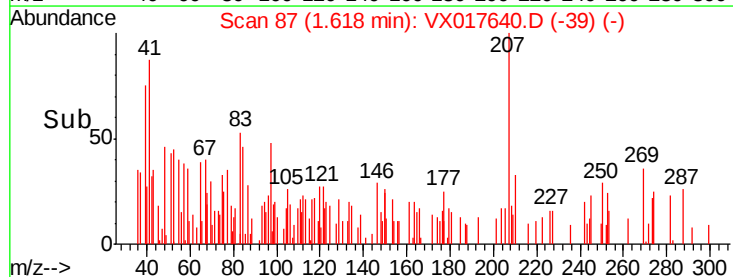
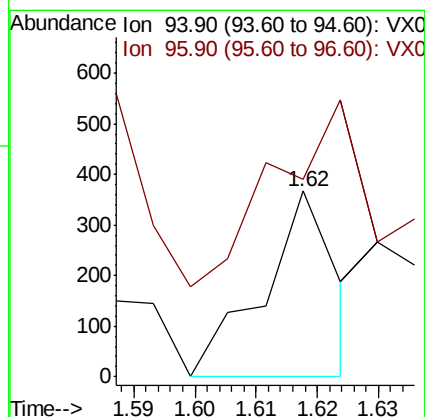
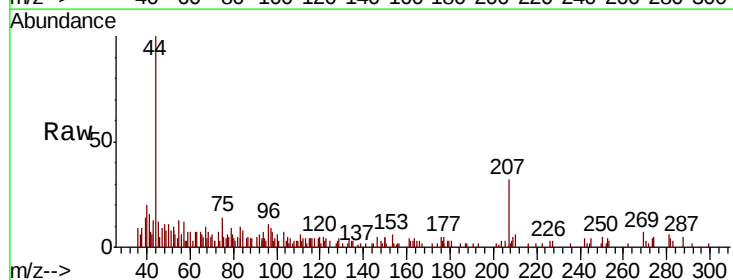
Acq: 28 Jul 2020 00:15

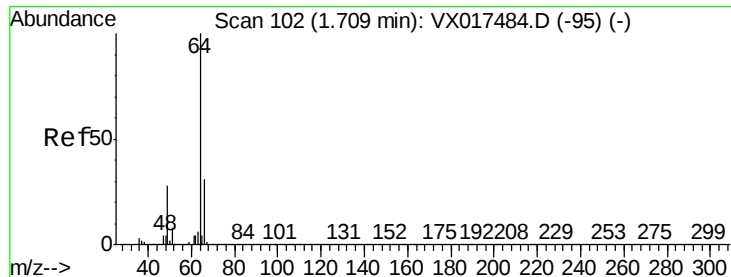
Tgt Ion: 94 Resp: 301

Ion Ratio Lower Upper

94 100

96 58.3 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 102

Delta R.T. 0.00 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampled :

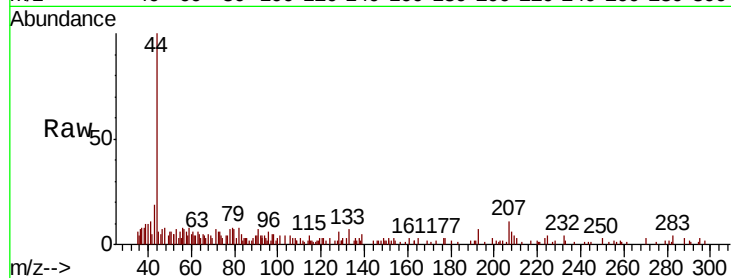
SY-2R

Tot Ion: 64 Resp: 533

Ion Ratio Lower Upper

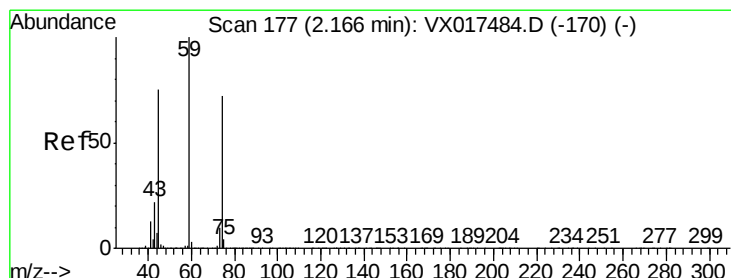
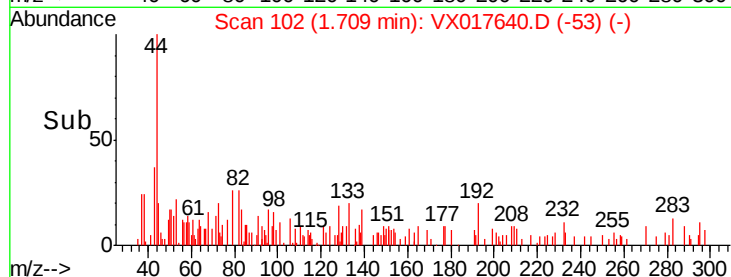
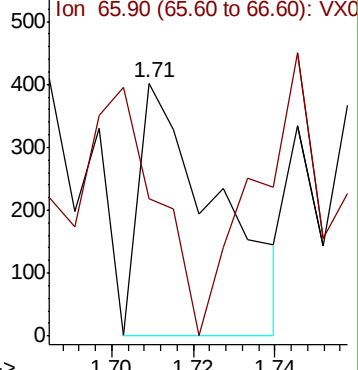
64 100

66 0.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.13 min Scan# 171

Delta R.T. -0.04 min

Lab File: VX017640.D

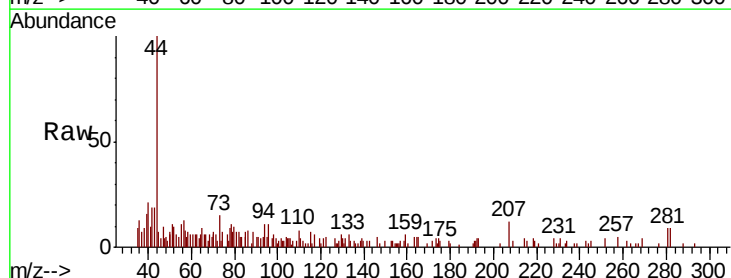
Acq: 28 Jul 2020 00:15

Tgt Ion: 74 Resp: 498

Ion Ratio Lower Upper

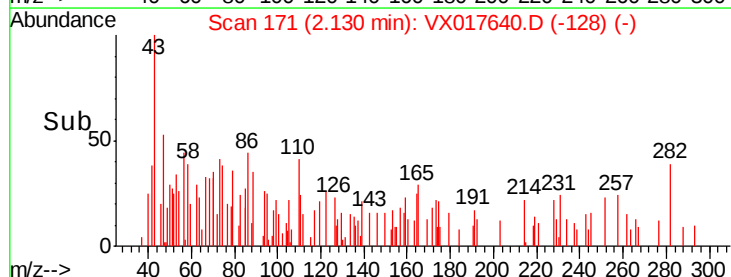
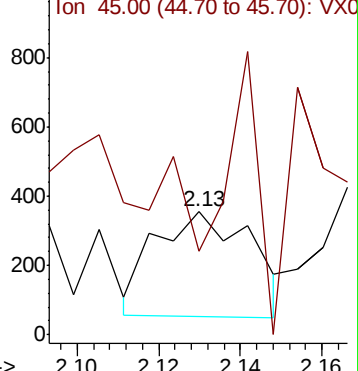
74 100

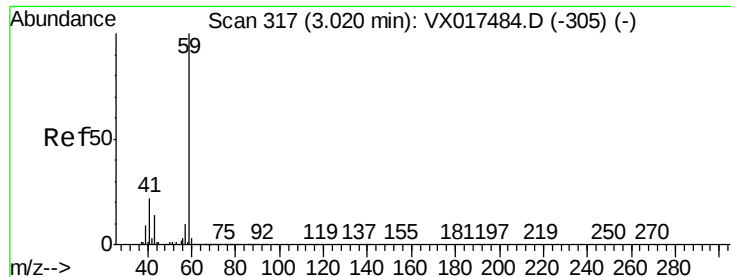
45 88.4 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



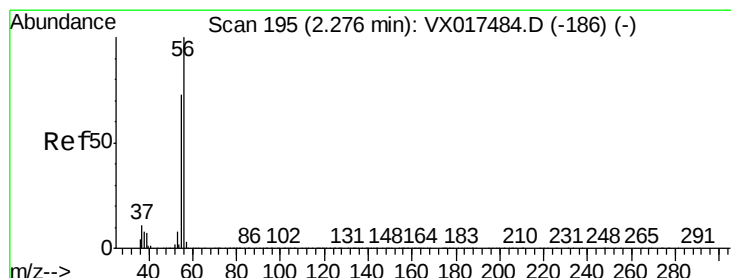
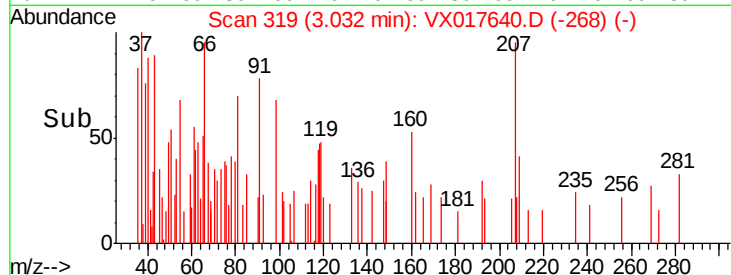
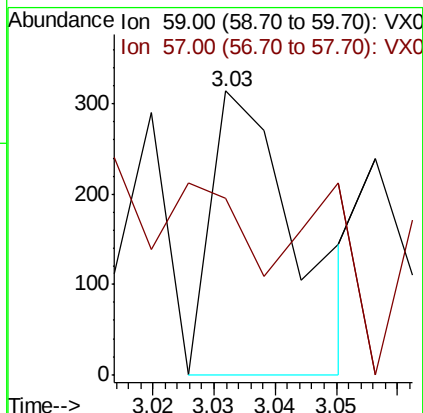
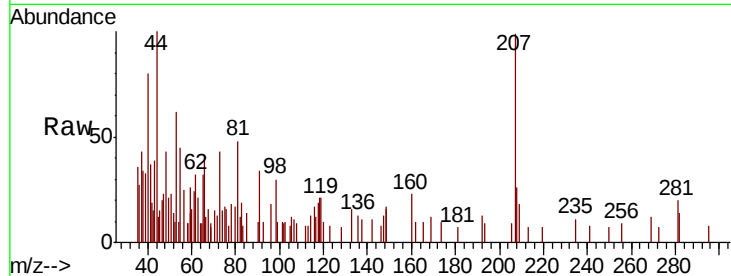


#11

Tert butyl alcohol
Concen: 0.235 ug/l
RT: 3.03 min Scan# 319
Delta R.T. 0.01 min
Lab File: VX017640.D
Acq: 28 Jul 2020 00:15

Instrument :
MSVOA_X
ClientSampleId :
SY-2R

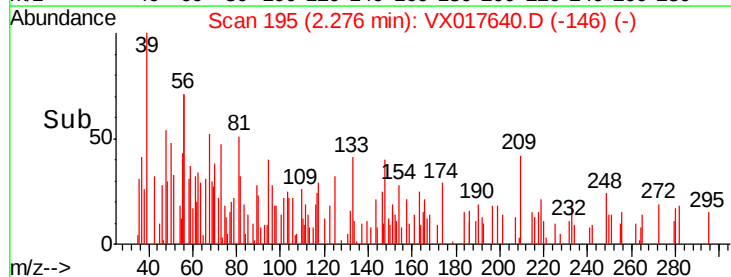
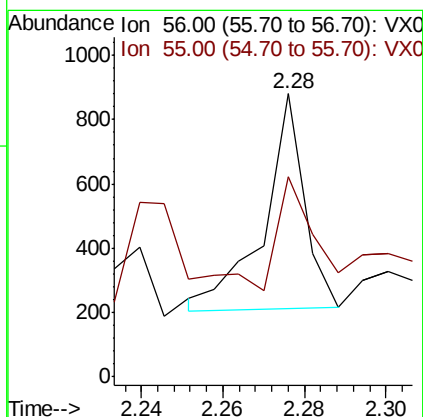
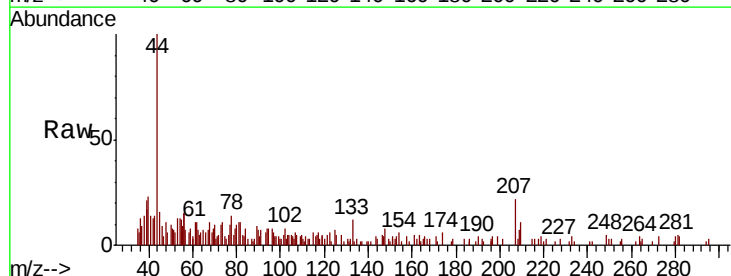
Tot Ion: 59 Resp: 305
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

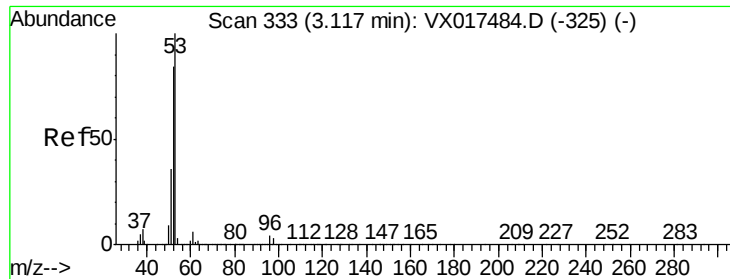


#13

Acrolein
Concen: 4.606 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.00 min
Lab File: VX017640.D
Acq: 28 Jul 2020 00:15

Tgt Ion: 56 Resp: 461
Ion Ratio Lower Upper
56 100
55 31.0 57.4 86.2#





#15

Acrylonitrile

Concen: 0.260 ug/l

RT: 3.09 min Scan# 329

Delta R.T. -0.02 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampled :

SY-2R

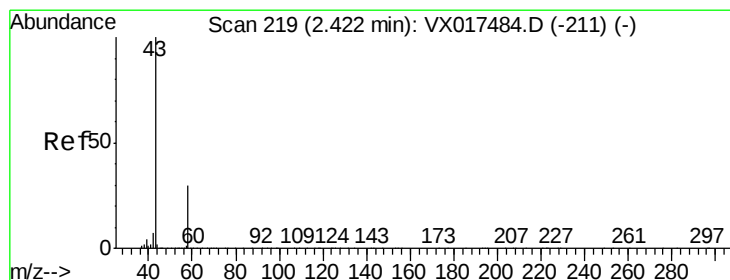
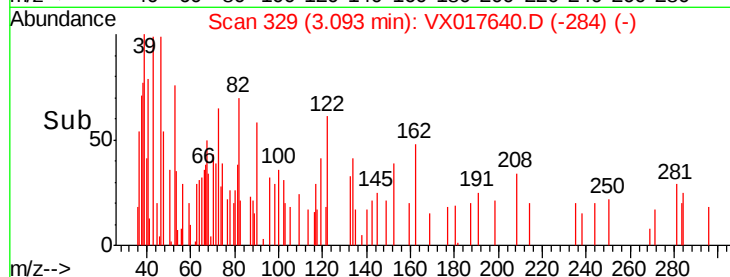
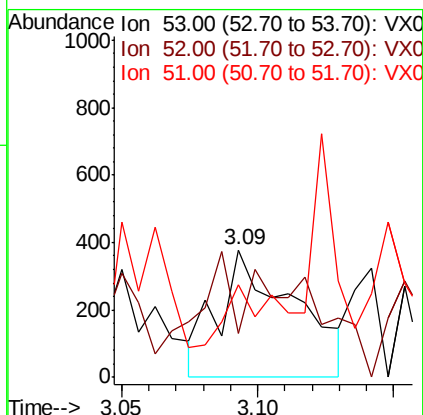
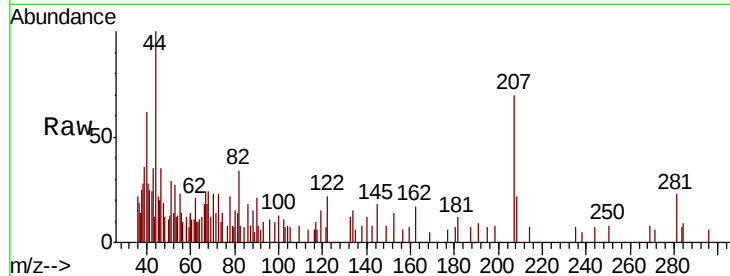
Tot Ion: 53 Resp: 728

Ion Ratio Lower Upper

53 100

52 33.4 66.6 99.8#

51 28.8 29.4 44.2#



#16

Acetone

Concen: 3.194 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017640.D

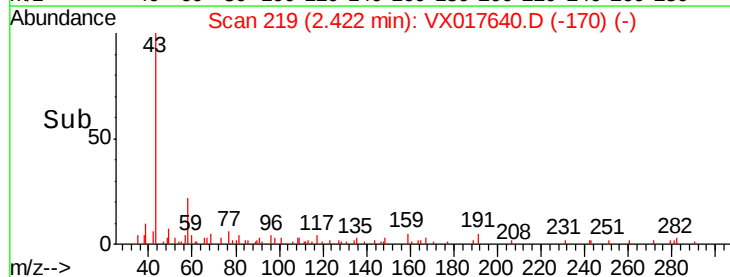
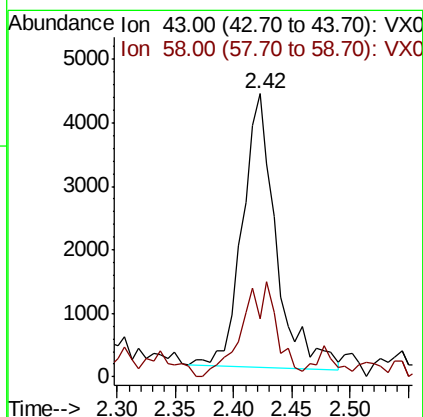
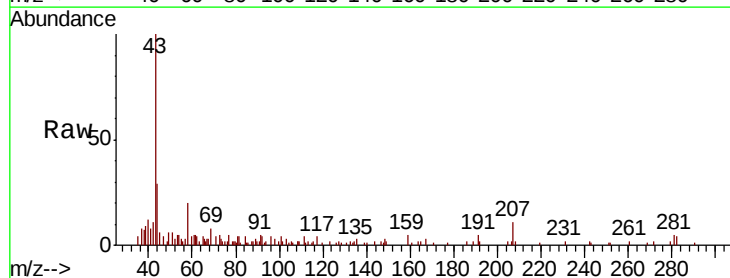
Acq: 28 Jul 2020 00:15

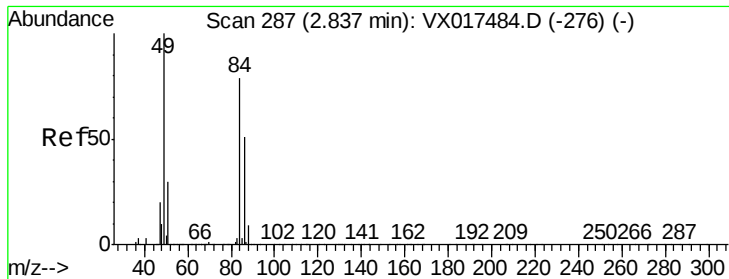
Tgt Ion: 43 Resp: 8658

Ion Ratio Lower Upper

43 100

58 17.4 24.2 36.4#

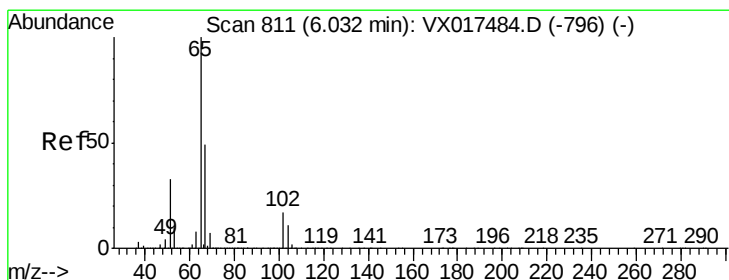
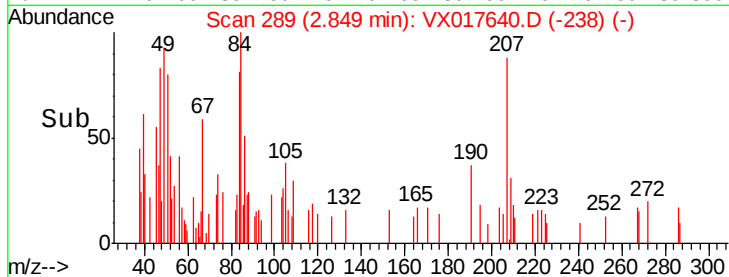
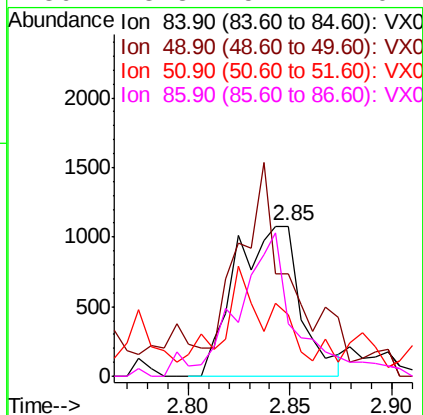
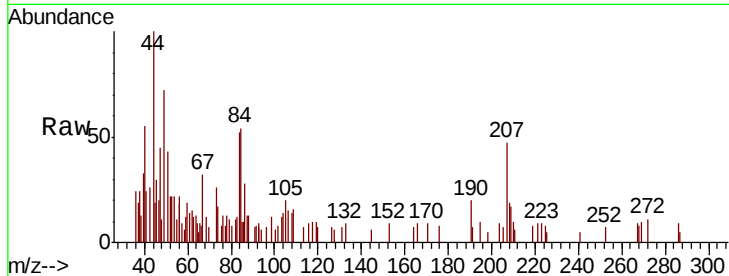




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 289
Delta R.T. 0.01 min
Lab File: VX017640.D
Acq: 28 Jul 2020 00:15

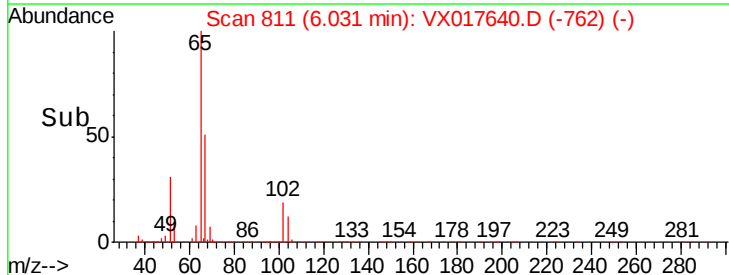
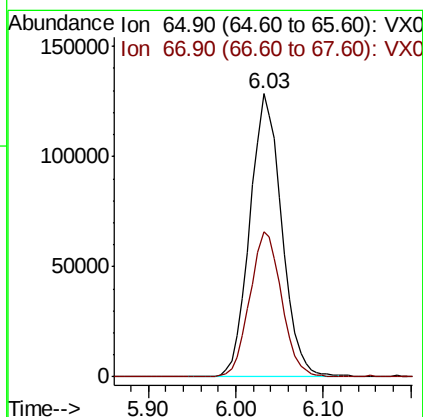
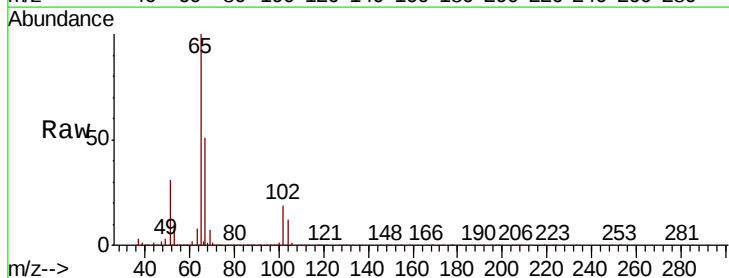
Instrument :
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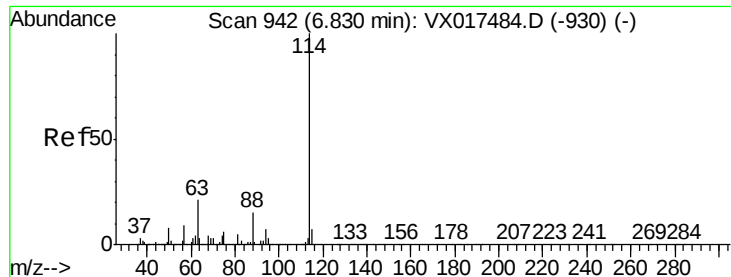
Tot Ion: 84 Resp: 2411
Ion Ratio Lower Upper
84 100
49 47.0 100.3 150.5#
51 25.9 30.5 45.7#
86 28.3 51.1 76.7#



#33
1,2-Dichloroethane-d4
Concen: 52.699 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017640.D
Acq: 28 Jul 2020 00:15

Tgt Ion: 65 Resp: 324596
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampleId :

SY-2R

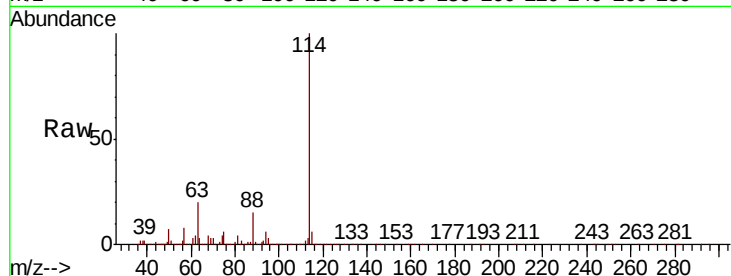
Tot Ion:114 Resp: 760223

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.6

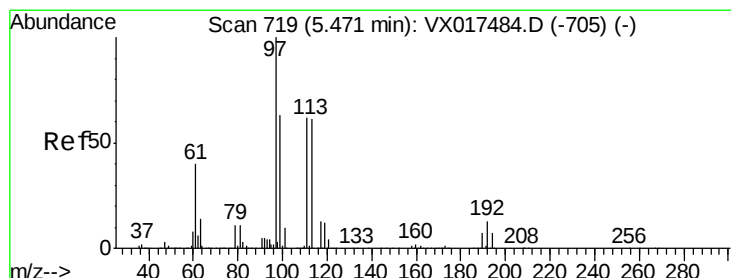
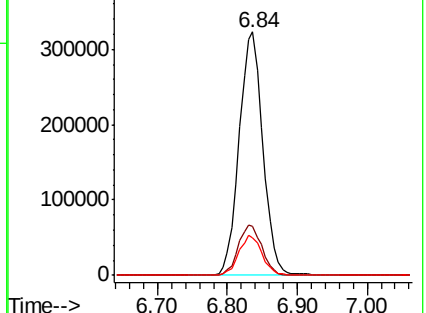
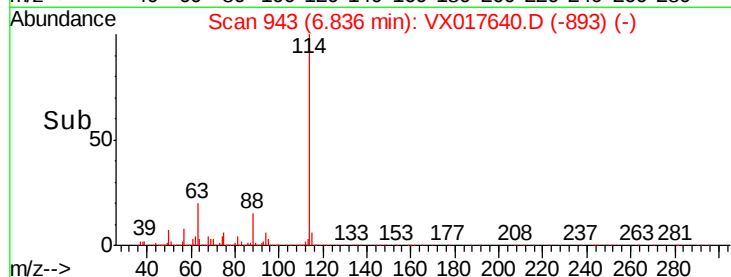
88 15.2 0.0 33.4



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: 53.565 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

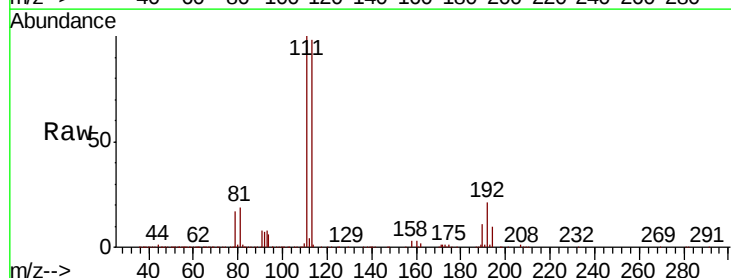
Tgt Ion:113 Resp: 272346

Ion Ratio Lower Upper

113 100

111 101.9 80.7 121.1

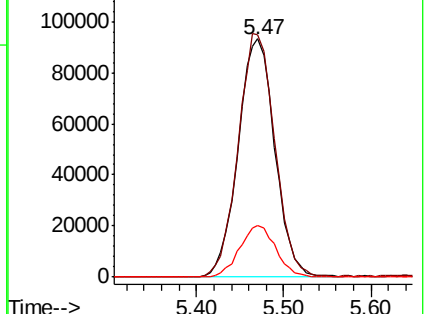
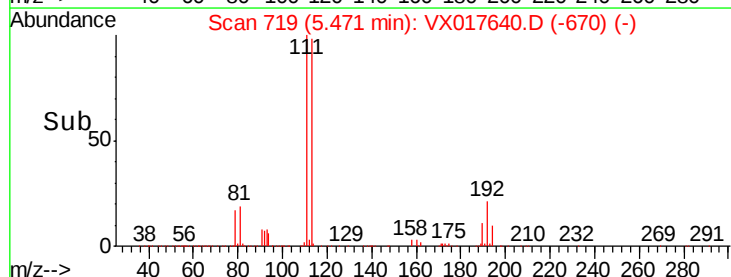
192 21.4 16.9 25.3

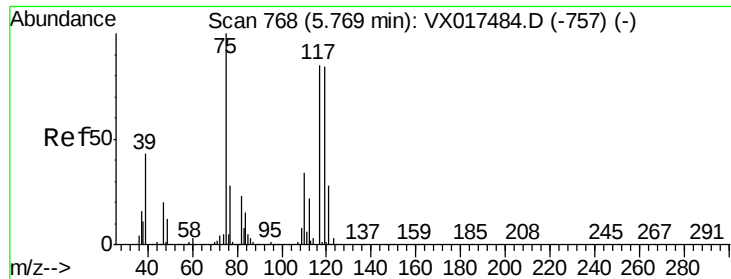


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.726 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampleId :

SY-2R

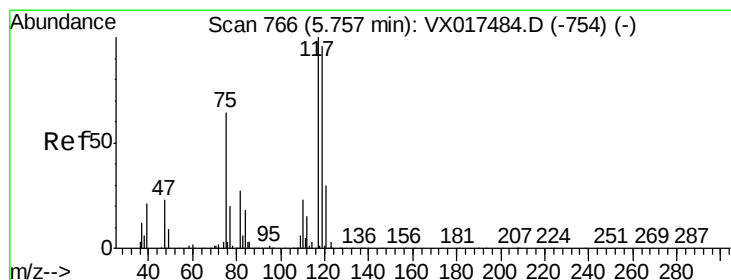
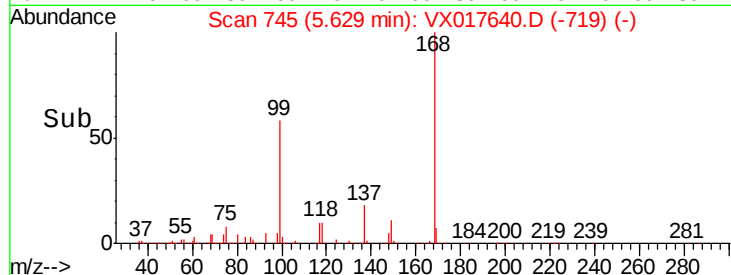
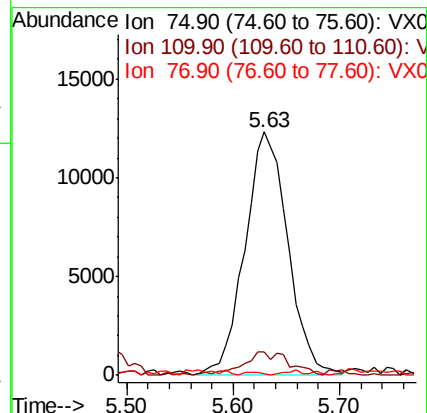
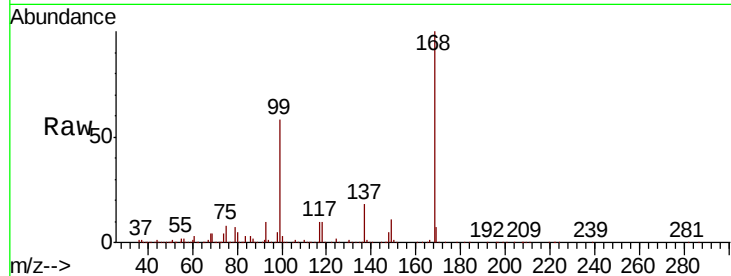
Tot Ion: 75 Resp: 34459

Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.3#

77 0.5 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.534 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

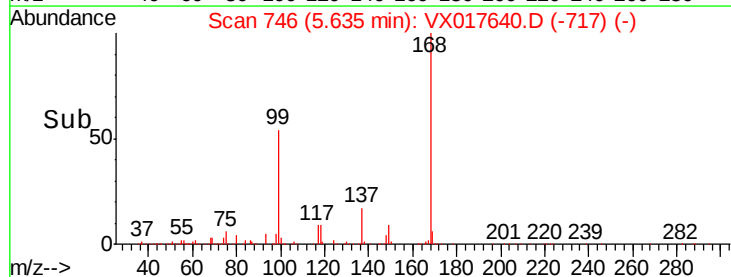
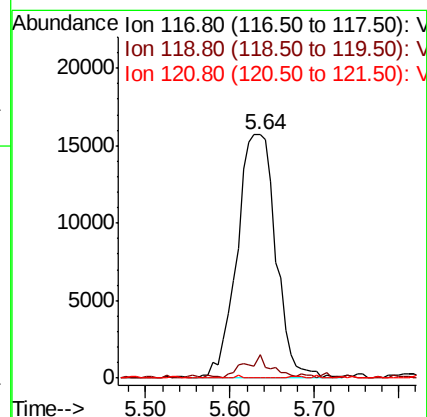
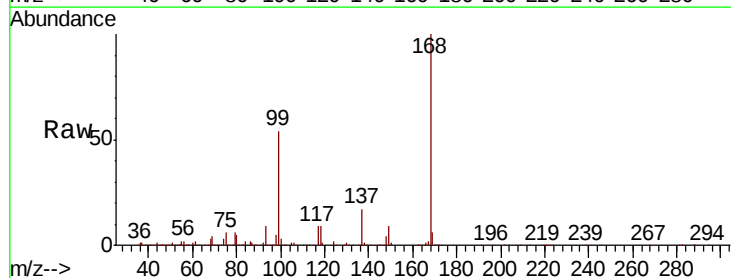
Tgt Ion: 117 Resp: 48999

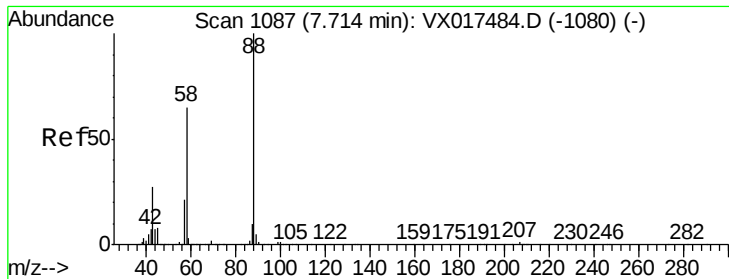
Ion Ratio Lower Upper

117 100

119 9.5 75.4 113.0#

121 0.0 24.3 36.5#





#49

1,4-Dioxane

Concen: 1.591 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampleId :

SY-2R

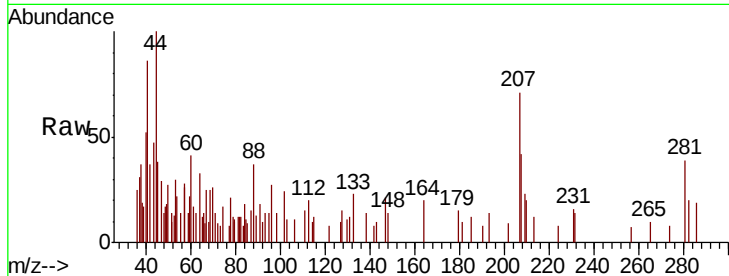
Tot Ion: 88 Resp: 199

Ion Ratio Lower Upper

88 100

43 92.5 27.8 41.6#

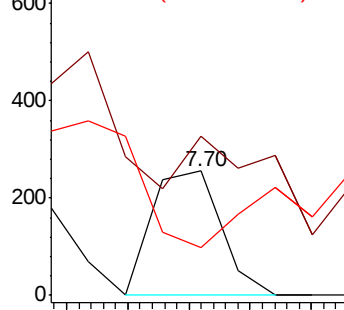
58 50.8 58.3 87.5#



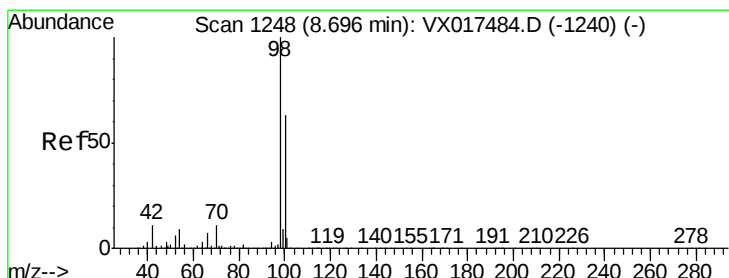
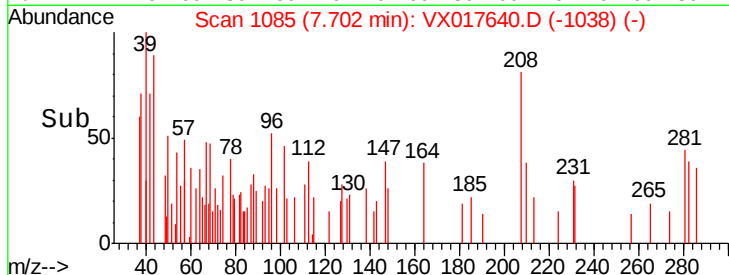
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 50.714 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017640.D

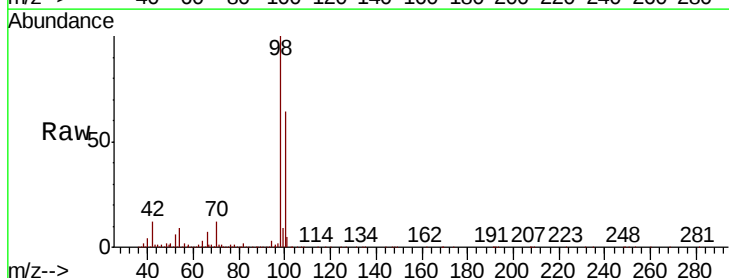
Acq: 28 Jul 2020 00:15

Tgt Ion: 98 Resp: 930193

Ion Ratio Lower Upper

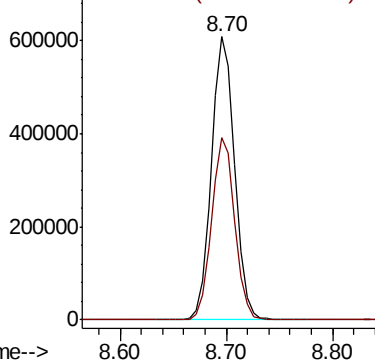
98 100

100 64.1 52.3 78.5

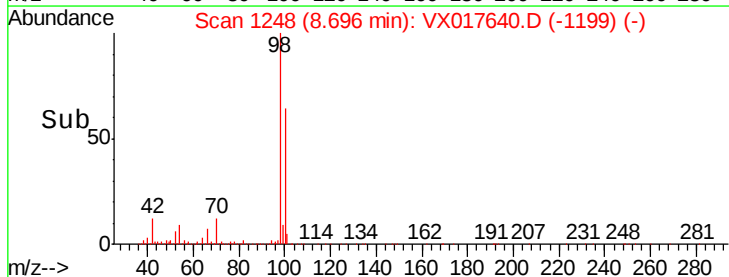


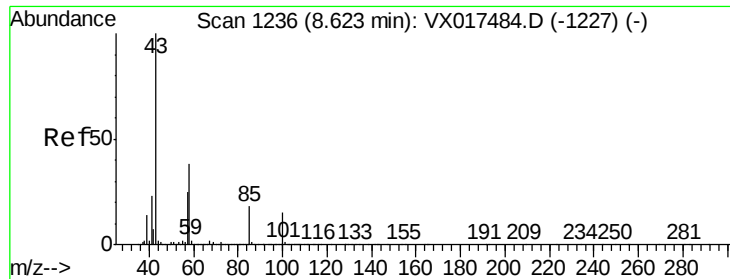
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->

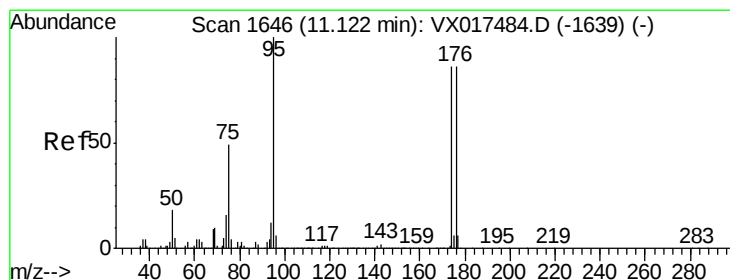
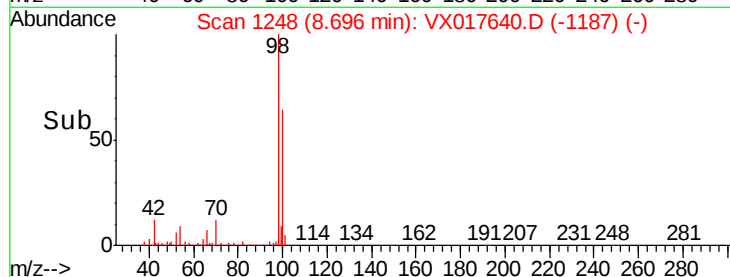
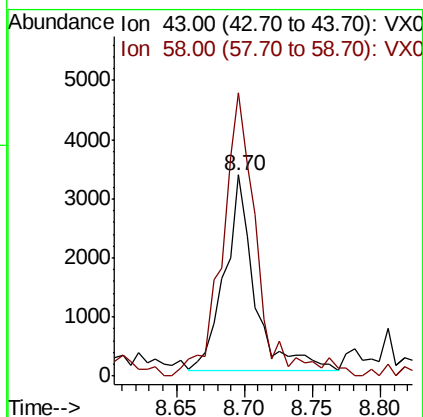
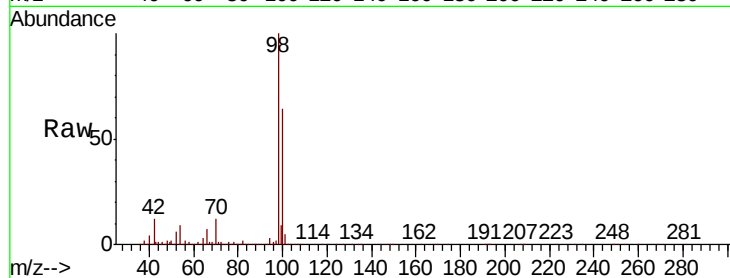




#51
4-Methyl-2-Pentanone
Concen: 0.651 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.07 min
Lab File: VX017640.D
Acq: 28 Jul 2020 00:15

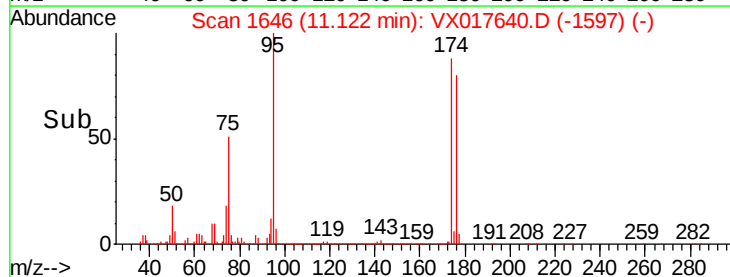
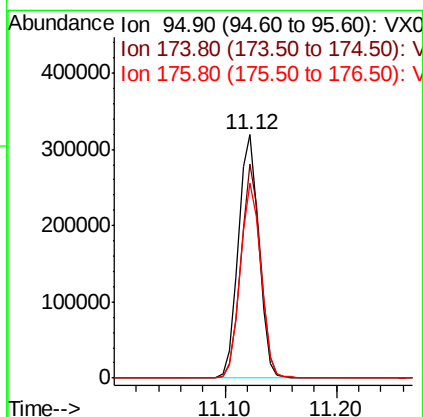
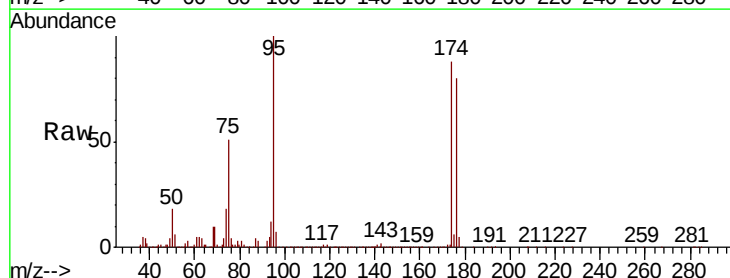
Instrument :
MSVOA_X
ClientSampled :
SY-2R

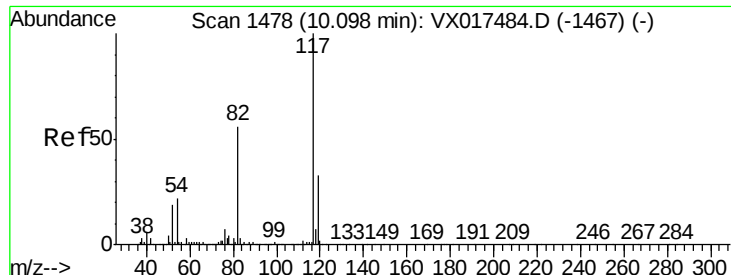
Tot Ion: 43 Resp: 5115
Ion Ratio Lower Upper
43 100
58 159.3 31.0 46.4#



#62
4-Bromofluorobenzene
Concen: 55.409 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017640.D
Acq: 28 Jul 2020 00:15

Tgt Ion: 95 Resp: 406725
Ion Ratio Lower Upper
95 100
174 85.0 0.0 169.0
176 80.8 0.0 161.0

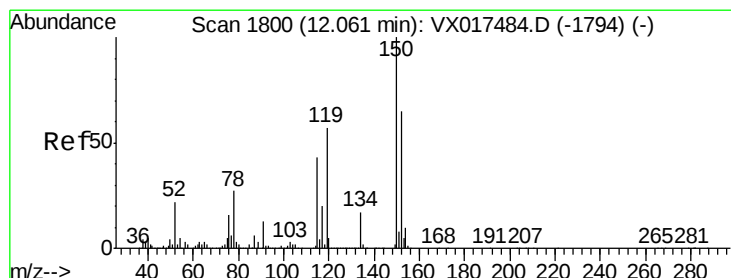
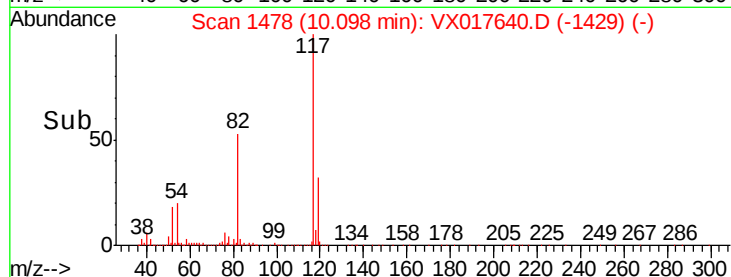
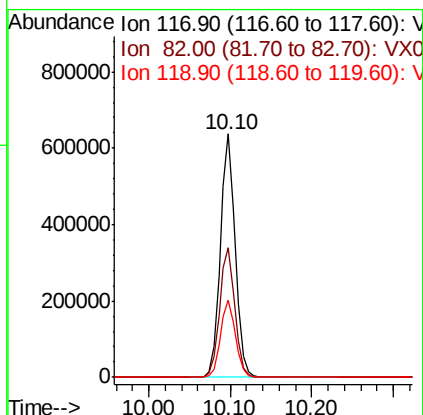
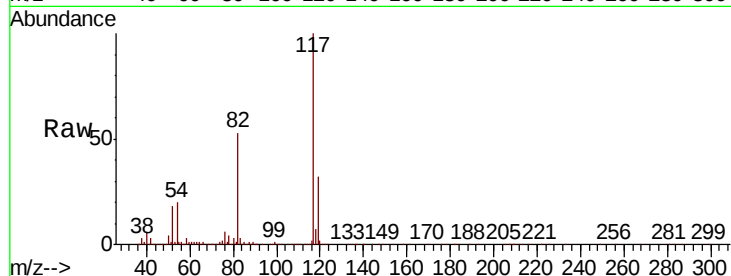




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017640.D
Acq: 28 Jul 2020 00:15

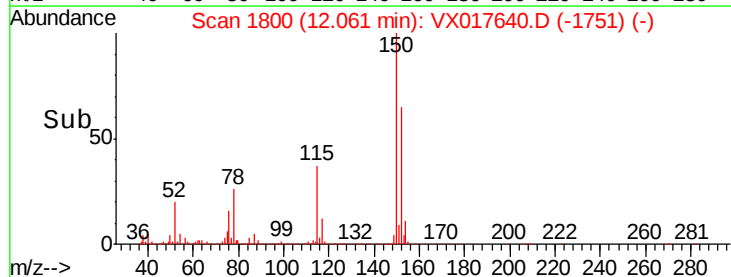
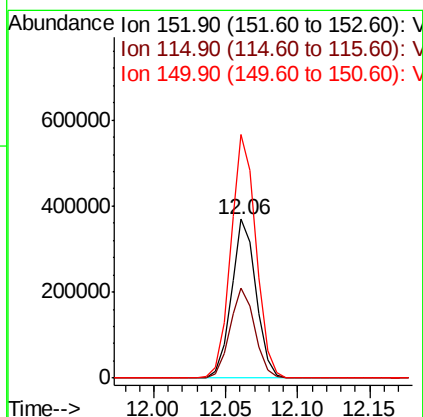
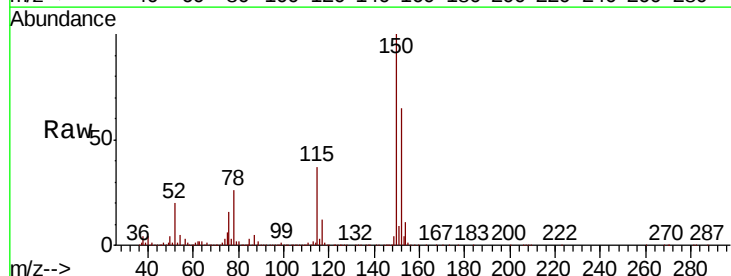
Instrument :
MSVOA_X
ClientSampleId :
SY-2R

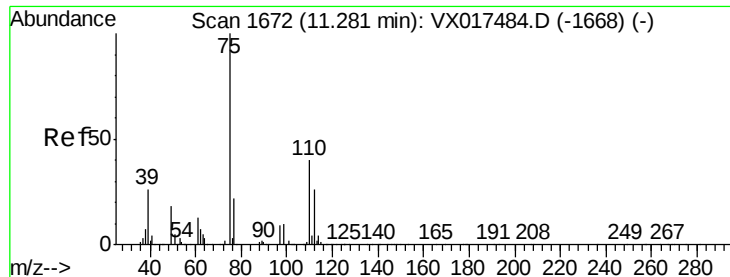
Tot Ion:117 Resp: 812164
Ion Ratio Lower Upper
117 100
82 53.3 44.0 66.0
119 31.8 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017640.D
Acq: 28 Jul 2020 00:15

Tgt Ion:152 Resp: 442873
Ion Ratio Lower Upper
152 100
115 57.0 65.5 196.6#
150 156.8 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 22.894 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampleId :

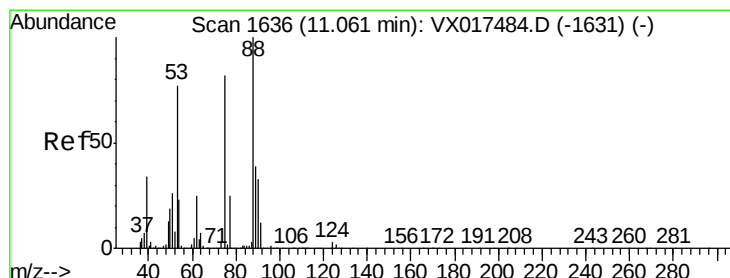
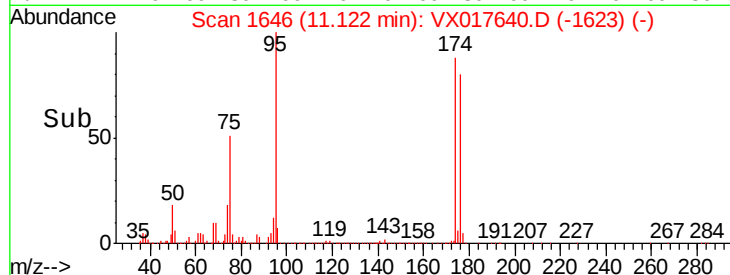
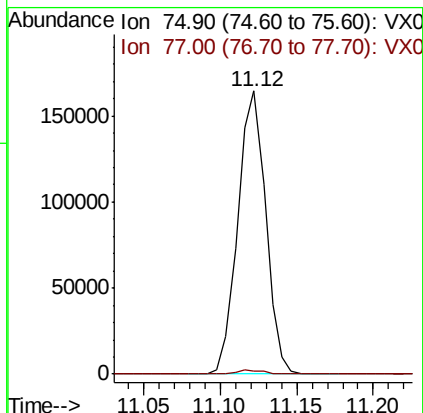
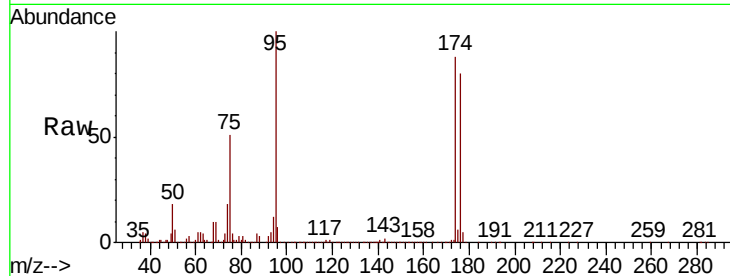
SY-2R

Tot Ion: 75 Resp: 208568

Ion Ratio Lower Upper

75 100

77 1.5 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.688 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

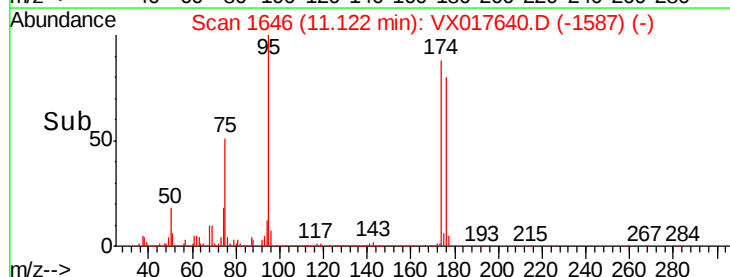
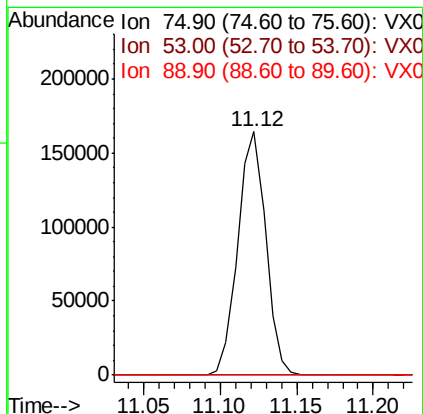
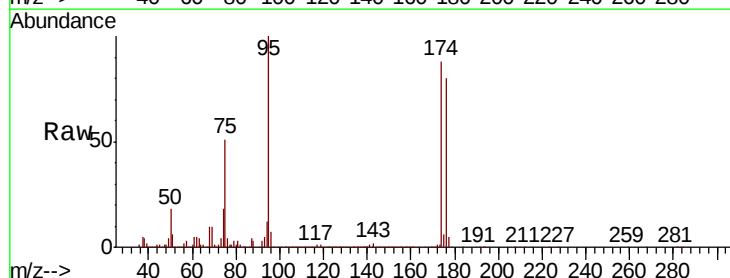
Tgt Ion: 75 Resp: 208568

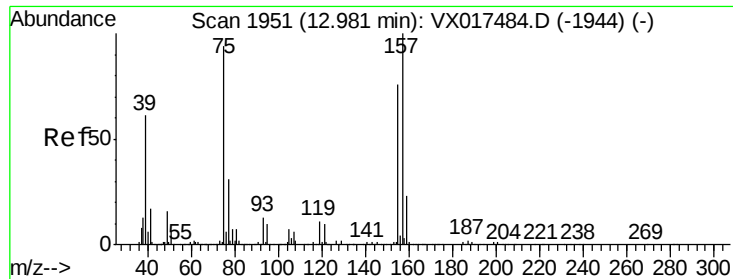
Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

89 0.0 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.631 ug/l

RT: 12.97 min Scan# 1949

Delta R.T. -0.01 min

Lab File: VX017640.D

Acq: 28 Jul 2020 00:15

Instrument :

MSVOA_X

ClientSampleId :

SY-2R

Tot Ion: 75 Resp: 155

Ion Ratio Lower Upper

75 100

155 19.4 42.3 126.8#

157 0.0 54.3 162.9#

