

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072720\
 Data File : VX017636.D
 Acq On : 27 Jul 2020 22:43
 Operator : JC/SP
 Sample : L3421-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SY-3DD

Quant Time: Jul 28 01:39:01 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	5.63	168	443590	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	741273	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	776661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	486165	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	309701	54.35	ug/l	0.00
Spiked Amount			Recovery	=	108.70%	
35) Dibromofluoromethane	5.46	113	254068	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
50) Toluene-d8	8.70	98	896184	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.12	95	431375	60.27	ug/l	0.00
Spiked Amount			Recovery	=	120.54%	

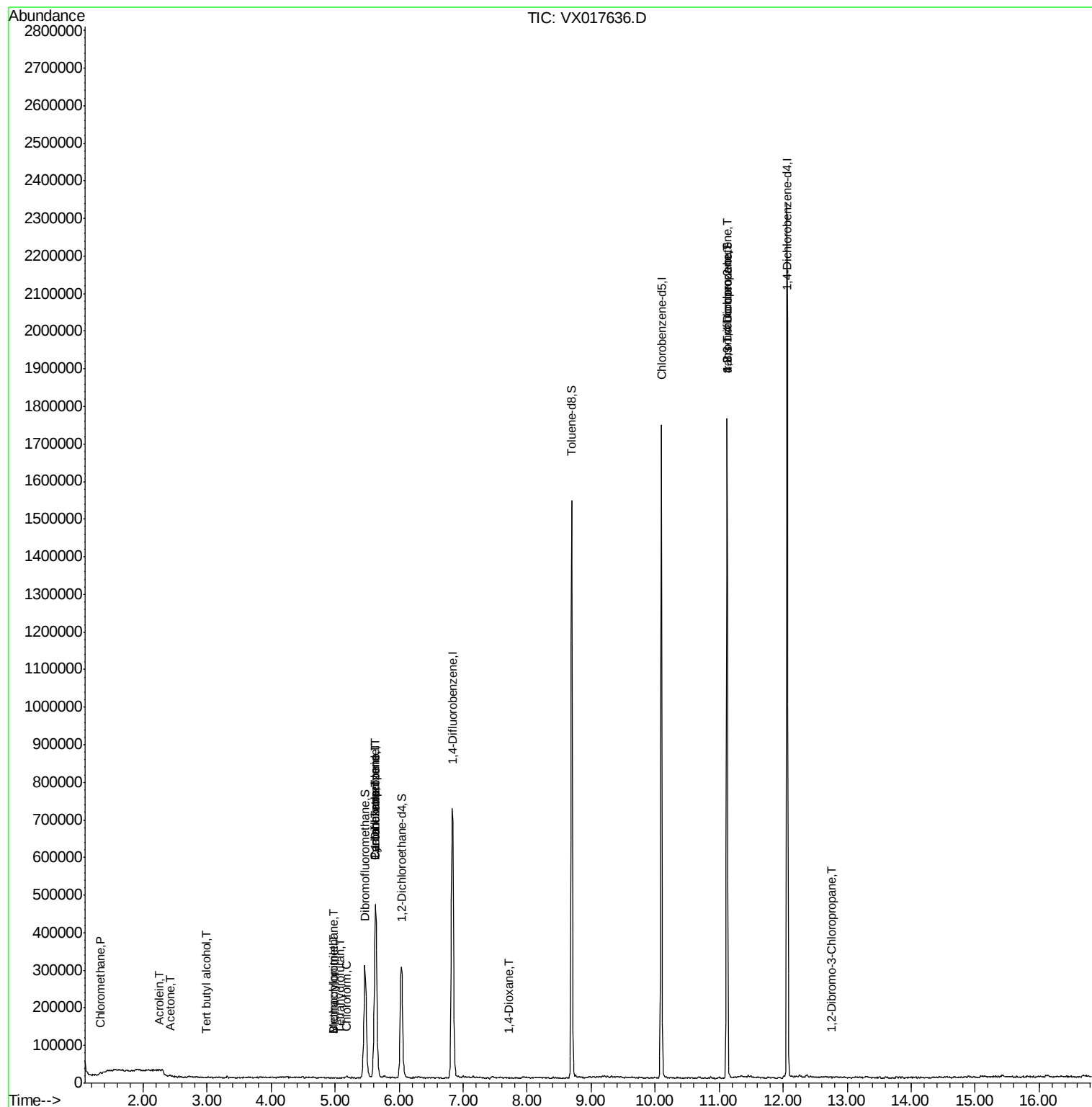
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	298	Below Cal	#	68
3) Chloromethane	1.32	50	2254	0.775	ug/l #	54
5) Bromomethane	1.64	94	426	Below Cal	#	3
6) Chloroethane	1.73	64	255	Below Cal		94
8) Diethyl Ether	2.18	74	329	Below Cal		90
11) Tert butyl alcohol	3.00	59	672	0.560	ug/l #	13
13) Acrolein	2.26	56	322	4.494	ug/l #	1
16) Acetone	2.43	43	5472	2.182	ug/l #	88
20) Methylene Chloride	2.84	84	931	Below Cal	#	59
28) Bromochloromethane	4.98	49	1108	0.277	ug/l #	14
29) Tetrahydrofuran	5.07	42	535	0.242	ug/l #	71
30) Chloroform	5.19	83	4898	0.544	ug/l	94
31) Cyclohexane	5.62	56	9125	1.299	ug/l #	30
36) 1,1-Dichloropropene	5.63	75	33274	4.680	ug/l #	51
38) Carbon Tetrachloride	5.63	117	45325	5.250	ug/l #	18
41) Methacrylonitrile	4.99	41	1119	0.251	ug/l #	50
49) 1,4-Dioxane	7.72	88	134	1.099	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	223710	22.370	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	223710	56.366	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.76	75	95	2.607	ug/l	92

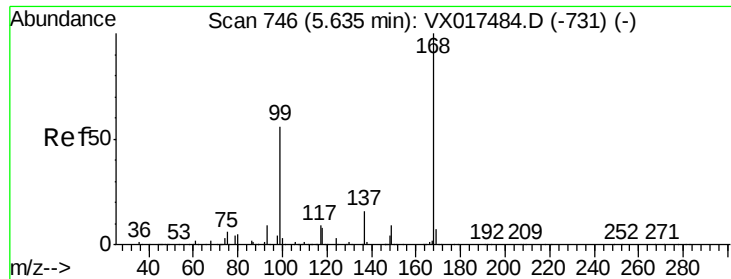
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampleId :

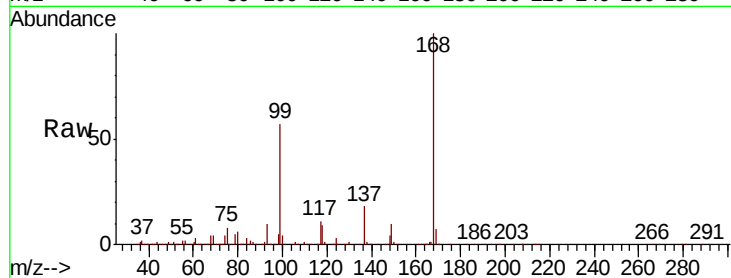
SY-3DD

Tot Ion:168 Resp: 443590

Ion Ratio Lower Upper

168 100

99 57.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

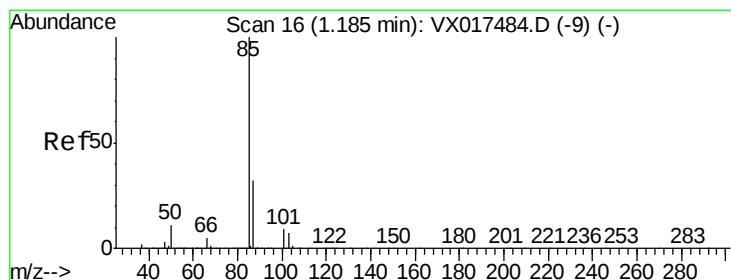
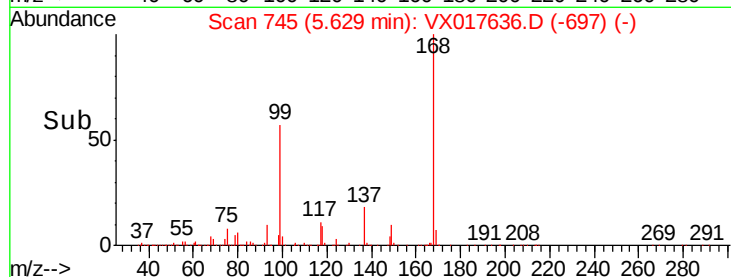
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017636.D

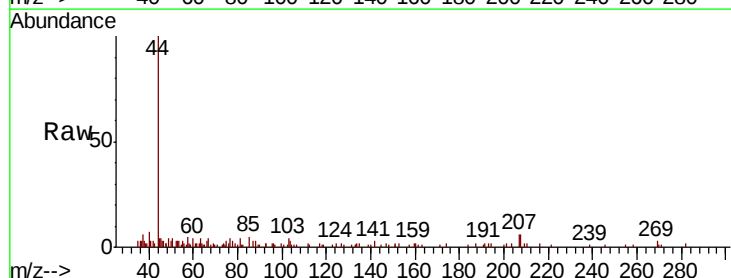
Acq: 27 Jul 2020 22:43

Tgt Ion: 85 Resp: 298

Ion Ratio Lower Upper

85 100

87 50.3 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

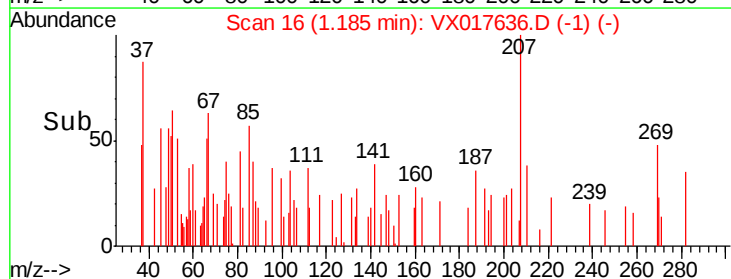
300

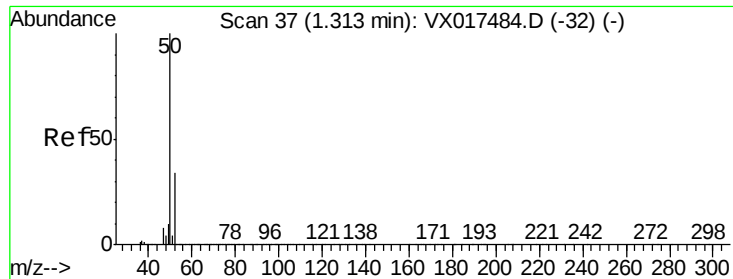
200

100

0

Time-->





#3

Chloromethane

Concen: 0.775 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampleId :

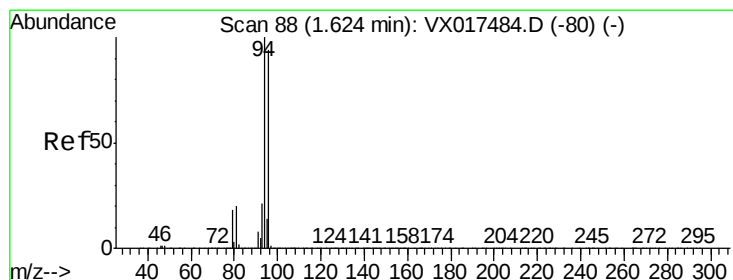
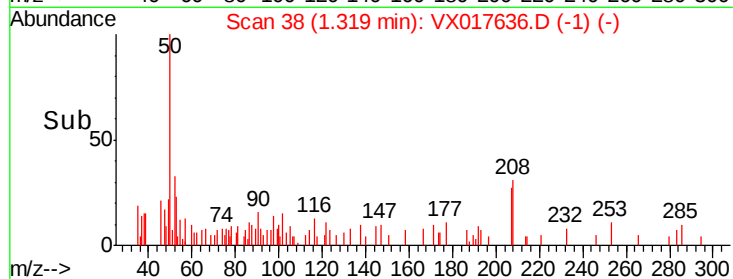
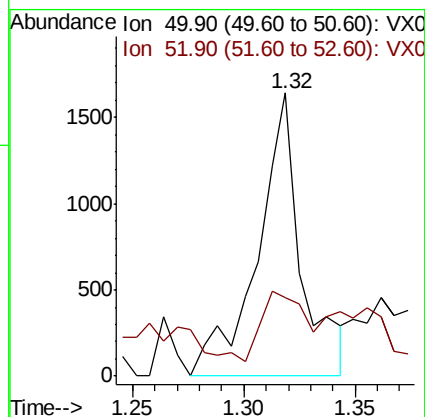
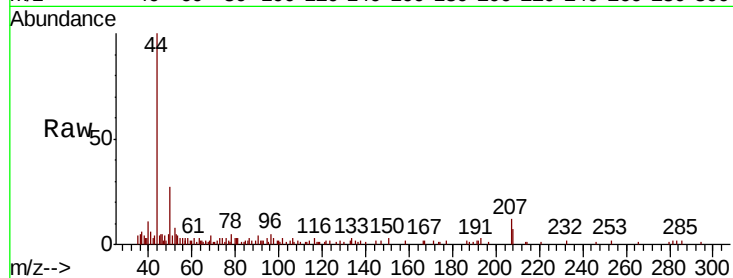
SY-3DD

Tot Ion: 50 Resp: 2254

Ion Ratio Lower Upper

50 100

52 6.6 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017636.D

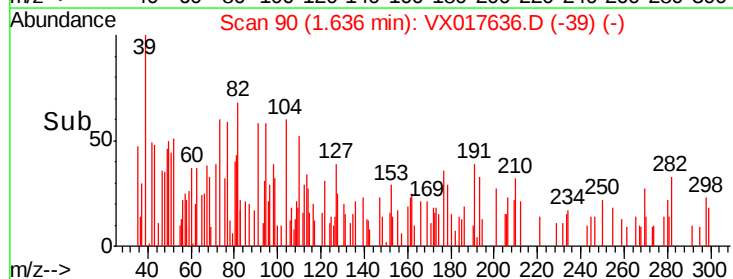
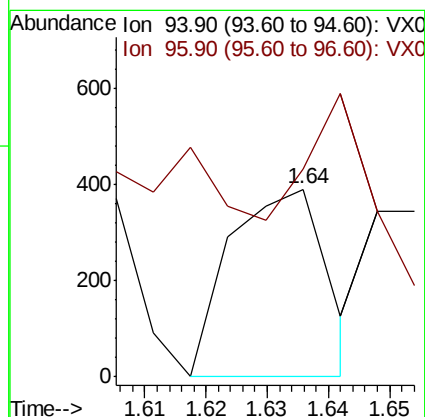
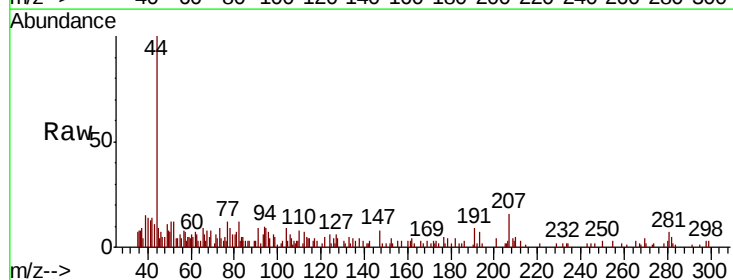
Acq: 27 Jul 2020 22:43

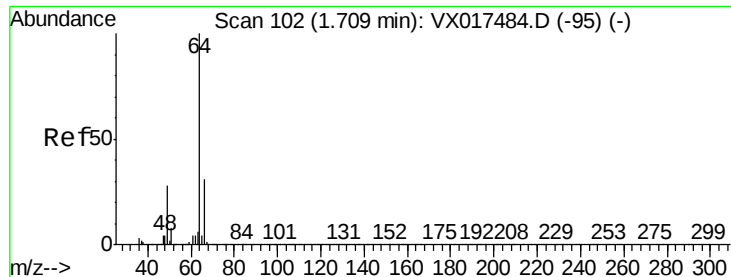
Tgt Ion: 94 Resp: 426

Ion Ratio Lower Upper

94 100

96 0.0 74.1 111.1#

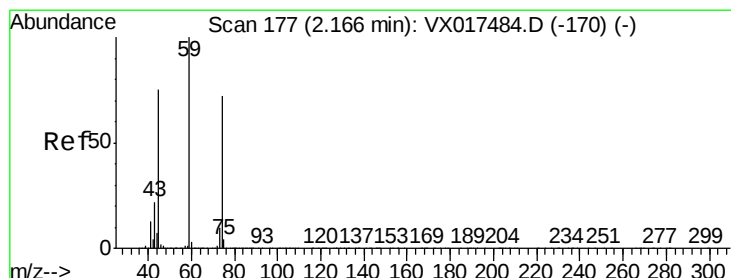
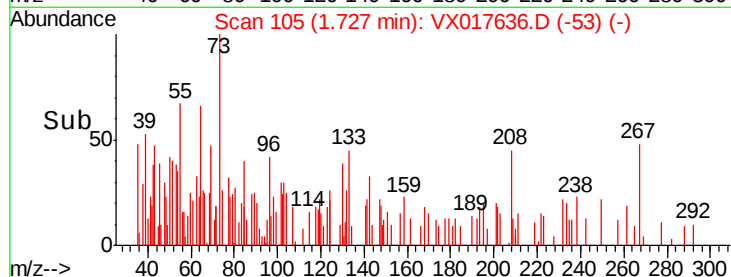
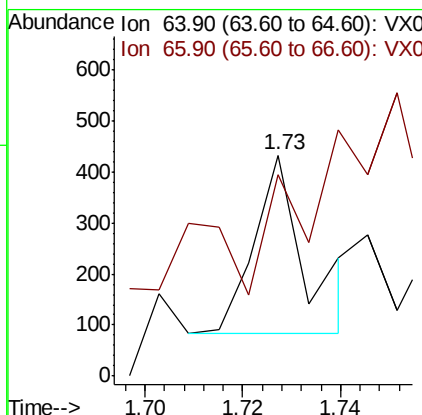
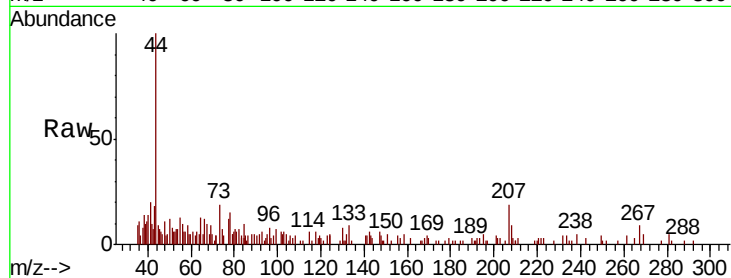




#6
Chloroethane
Concen: Below Cal
RT: 1.73 min Scan# 105
Delta R.T. 0.02 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

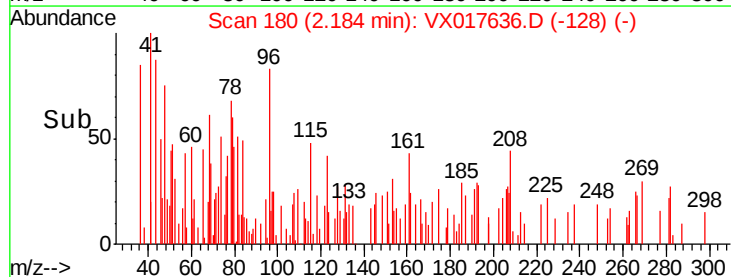
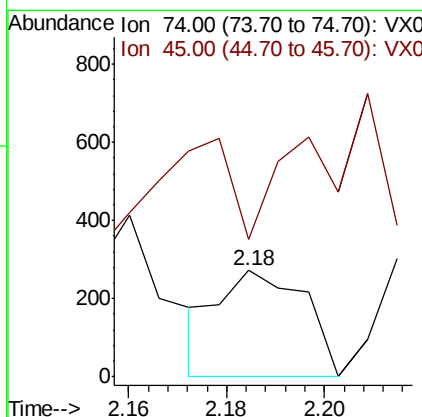
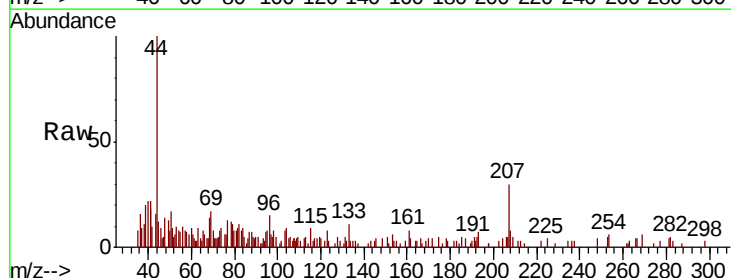
Instrument :
MSVOA_X
ClientSampled :
SY-3DD

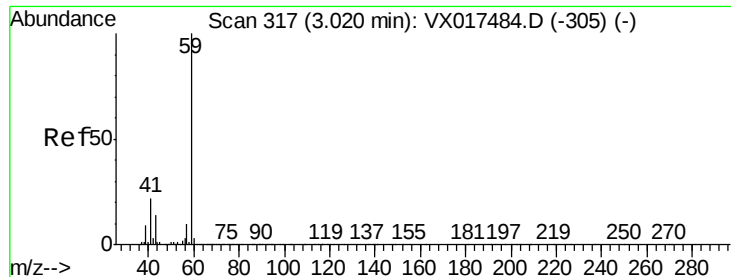
Tot Ion: 64 Resp: 255
Ion Ratio Lower Upper
64 100
66 27.8 24.9 37.3



#8
Diethyl Ether
Concen: Below Cal
RT: 2.18 min Scan# 180
Delta R.T. 0.02 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

Tgt Ion: 74 Resp: 329
Ion Ratio Lower Upper
74 100
45 91.2 50.8 152.5



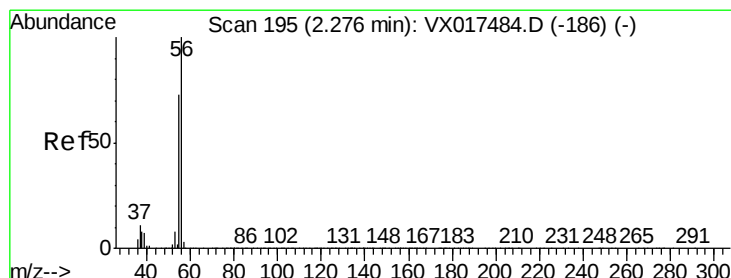
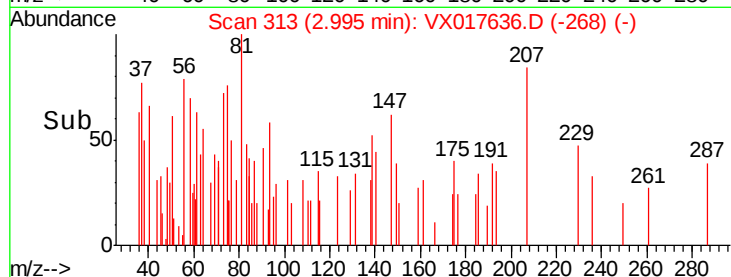
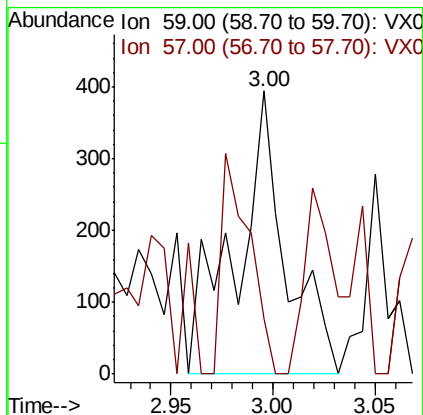
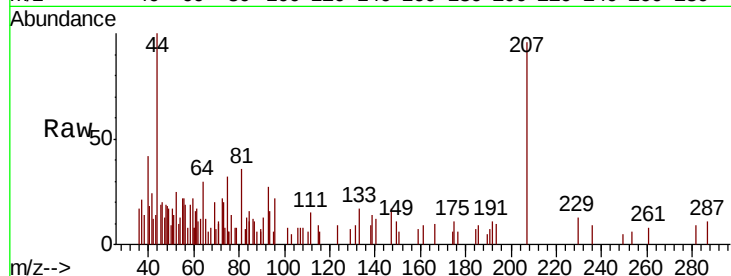


#11

Tert butyl alcohol
Concen: 0.560 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

Instrument :
MSVOA_X
ClientSampled :
SY-3DD

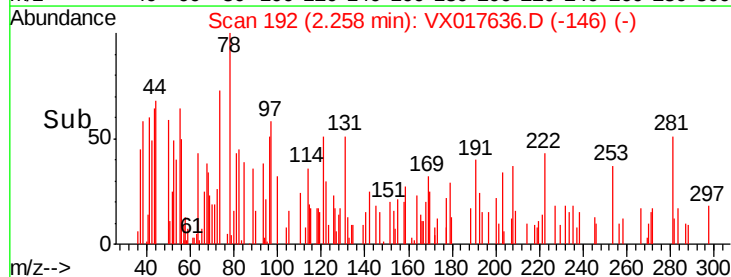
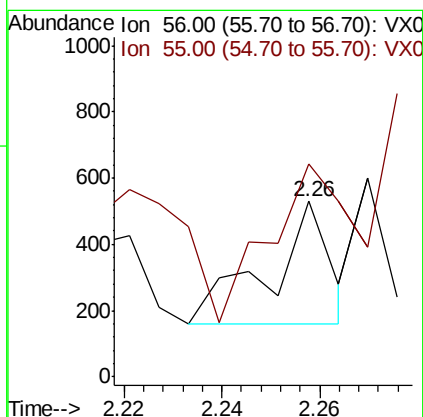
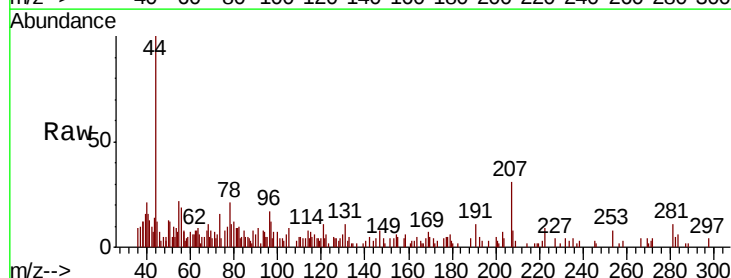
Tot Ion: 59 Resp: 672
Ion Ratio Lower Upper
59 100
57 43.6 8.6 12.8#

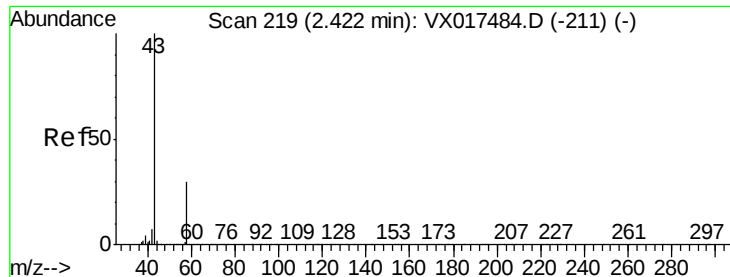


#13

Acrolein
Concen: 4.494 ug/l
RT: 2.26 min Scan# 192
Delta R.T. -0.02 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

Tgt Ion: 56 Resp: 322
Ion Ratio Lower Upper
56 100
55 420.8 57.4 86.2#

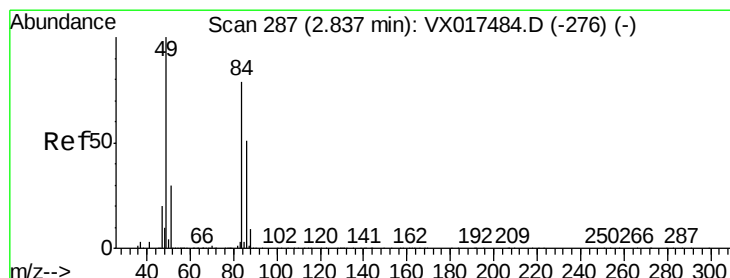
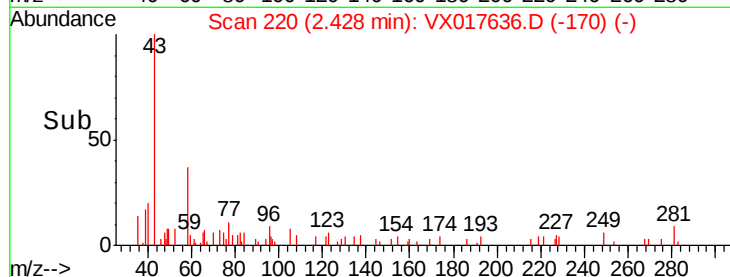
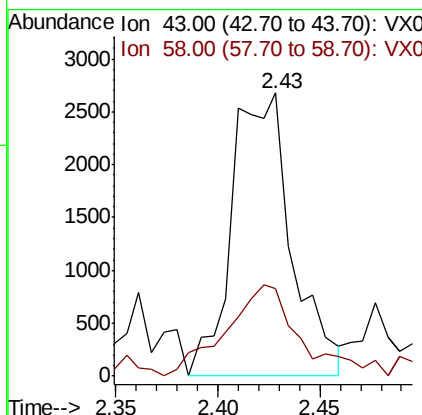
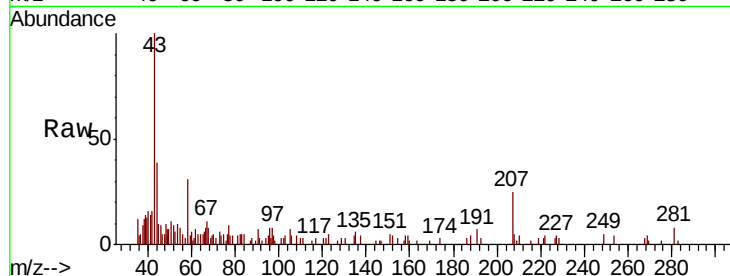




#16
Acetone
Concen: 2.182 ug/l
RT: 2.43 min Scan# 220
Delta R.T. 0.01 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

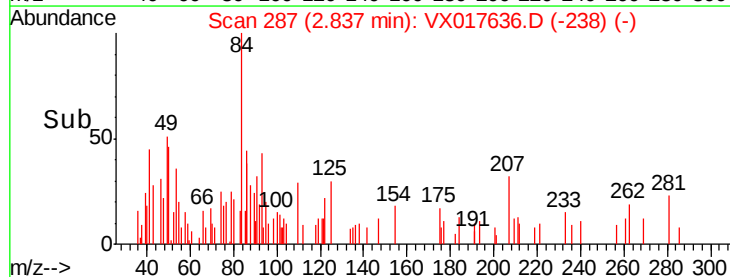
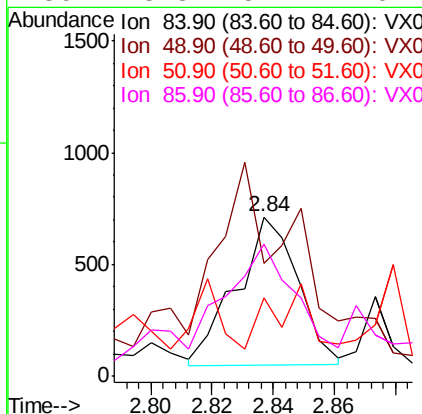
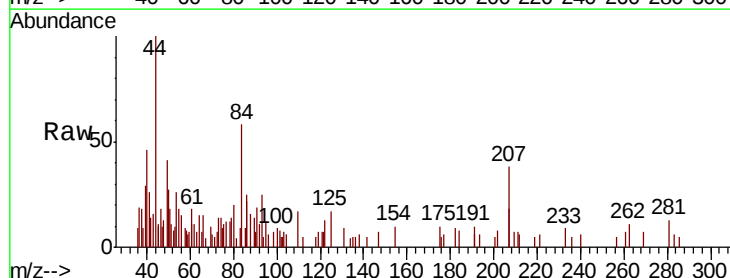
Instrument :
MSVOA_X
ClientSampled :
SY-3DD

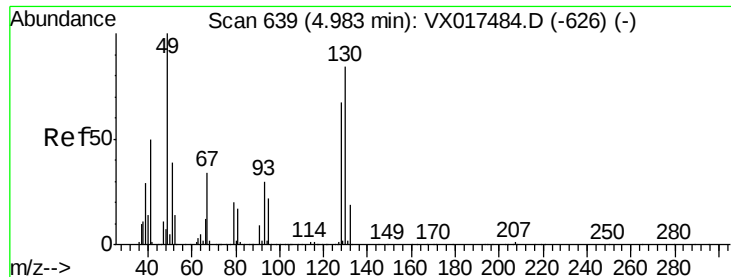
Tot Ion: 43 Resp: 5472
Ion Ratio Lower Upper
43 100
58 23.9 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

Tgt Ion: 84 Resp: 931
Ion Ratio Lower Upper
84 100
49 50.2 100.3 150.5#
51 32.9 30.5 45.7
86 73.3 51.1 76.7





#28

Bromochloromethane

Concen: 0.277 ug/l

RT: 4.98 min Scan# 638

Delta R.T. -0.01 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampled :

SY-3DD

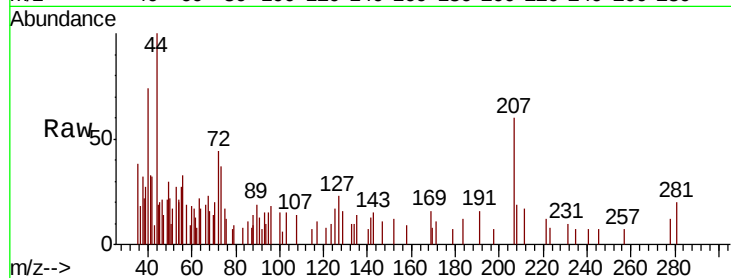
Tot Ion: 49 Resp: 1108

Ion Ratio Lower Upper

49 100

129 10.5 0.0 4.6#

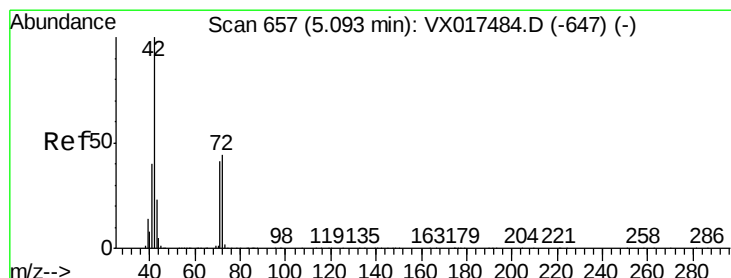
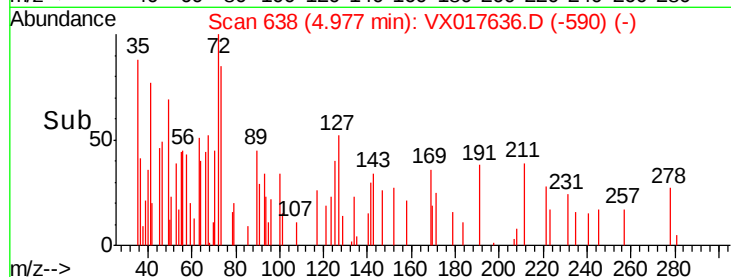
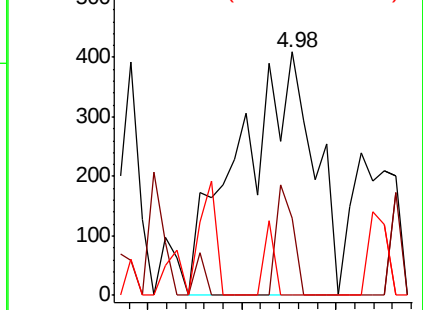
130 4.2 66.7 100.1#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.242 ug/l

RT: 5.07 min Scan# 653

Delta R.T. -0.02 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

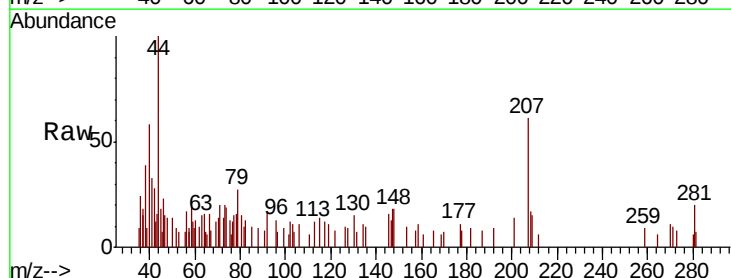
Tgt Ion: 42 Resp: 535

Ion Ratio Lower Upper

42 100

72 13.1 35.5 53.3#

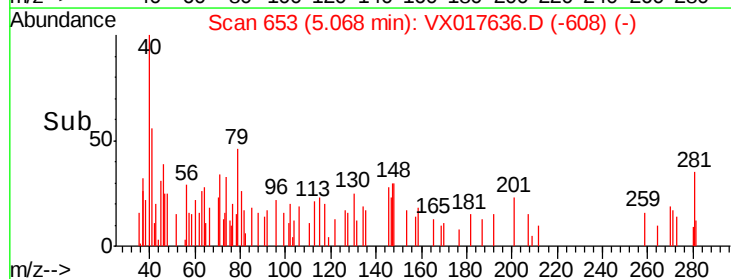
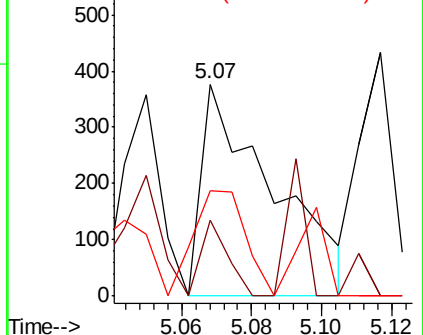
71 36.3 33.0 49.4

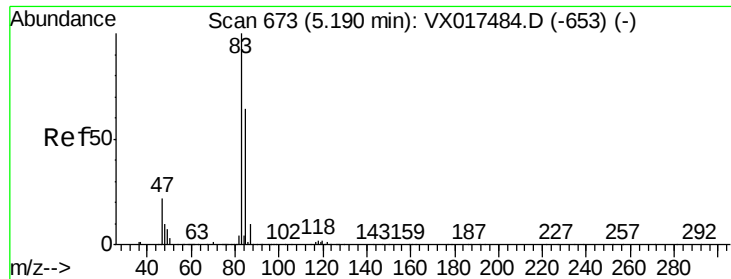


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

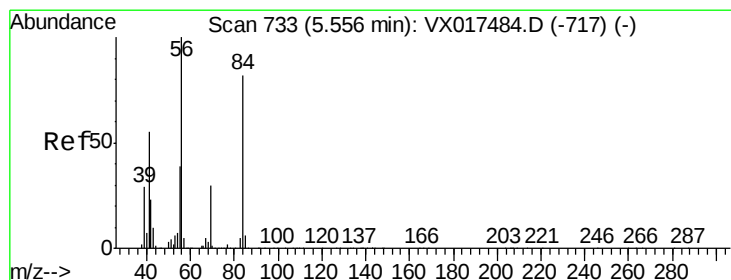
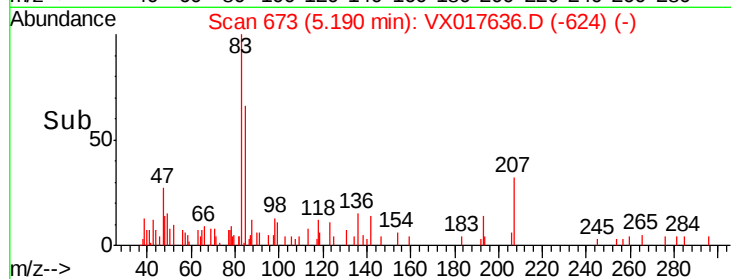
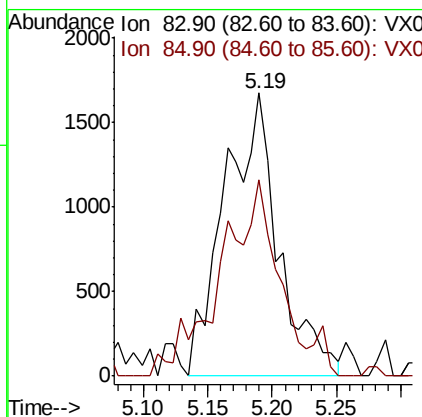
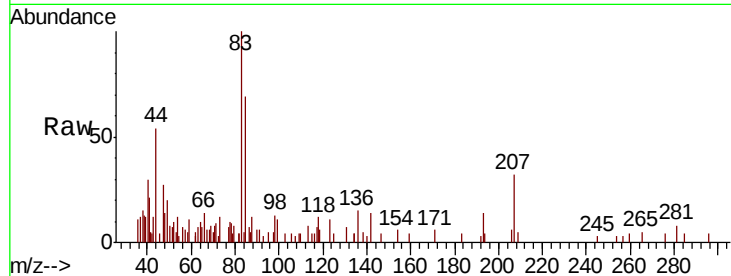




#30
Chloroform
Concen: 0.544 ug/l
RT: 5.19 min Scan# 673
Delta R.T. -0.00 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

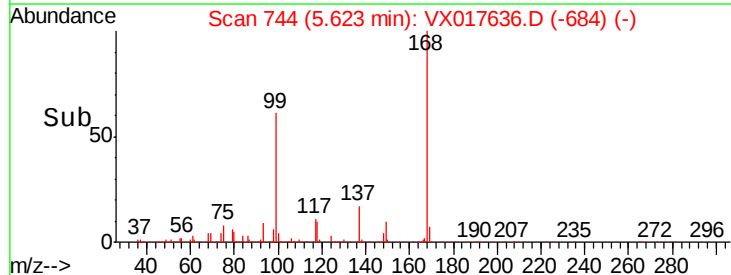
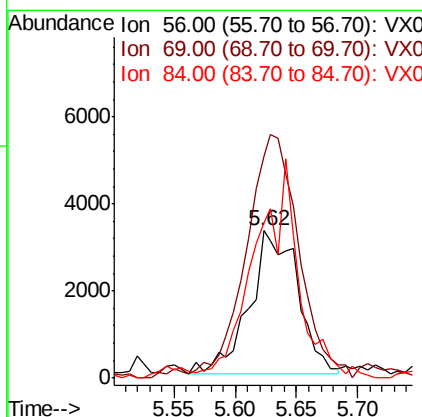
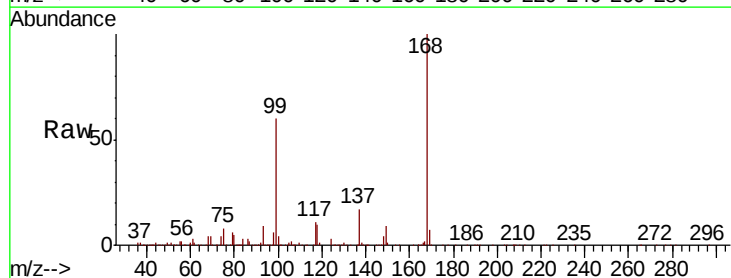
Instrument :
MSVOA_X
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SY-3DD

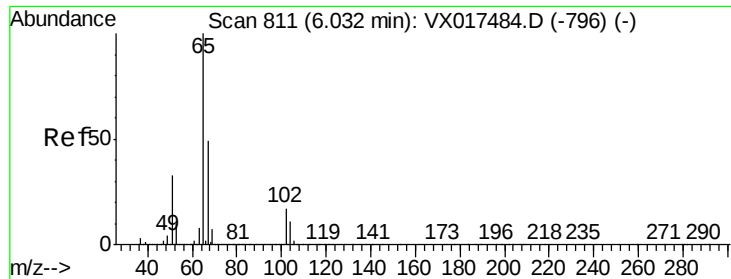
Tot Ion: 83 Resp: 4898
Ion Ratio Lower Upper
83 100
85 69.3 51.4 77.2



#31
Cyclohexane
Concen: 1.299 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

Tgt Ion: 56 Resp: 9125
Ion Ratio Lower Upper
56 100
69 153.3 24.2 36.4#
84 99.8 69.0 103.6





#33

1,2-Dichloroethane-d4

Concen: 54.352 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampled :

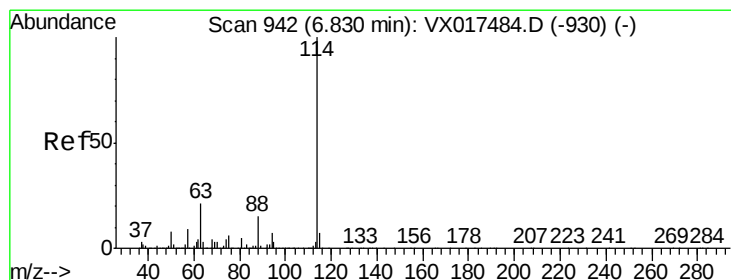
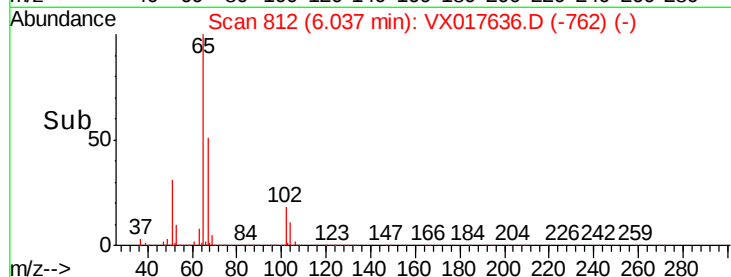
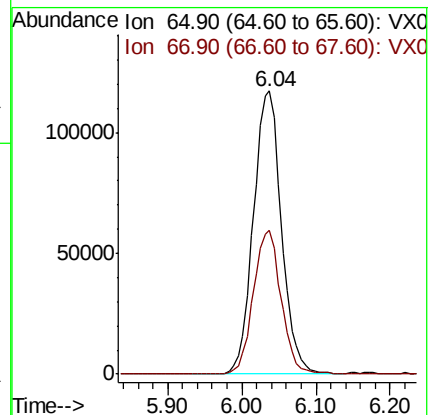
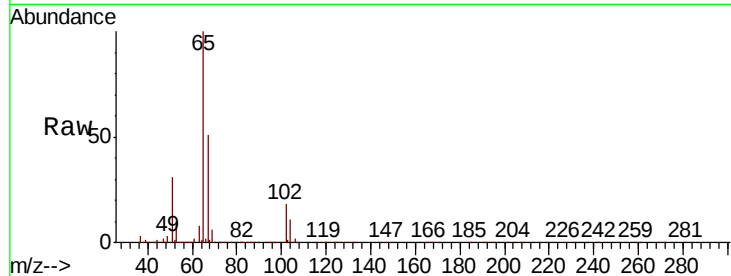
SY-3DD

Tot Ion: 65 Resp: 309701

Ion Ratio Lower Upper

65 100

67 50.2 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

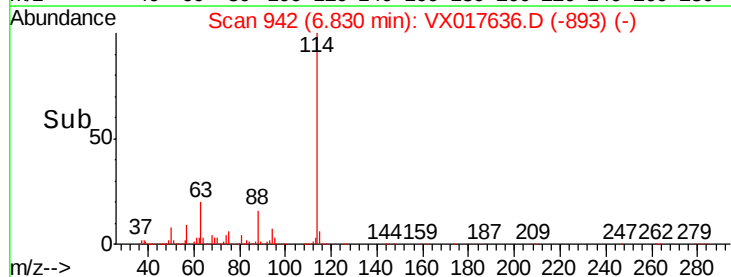
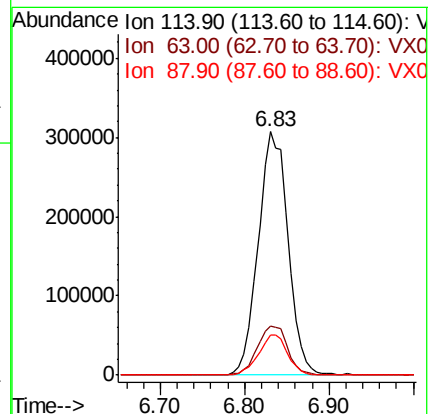
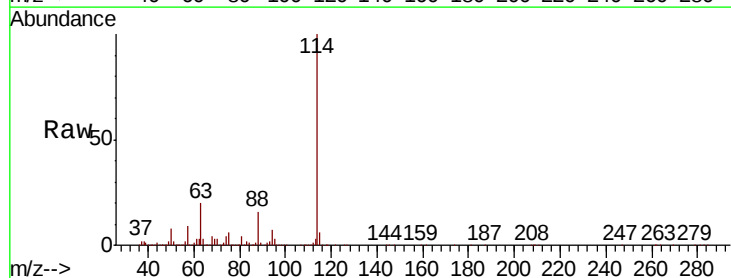
Tgt Ion: 114 Resp: 741273

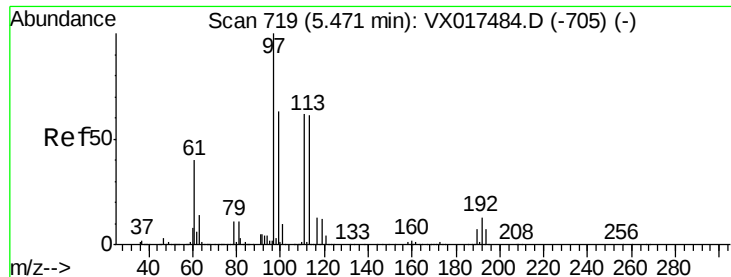
Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.6

88 16.2 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.247 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampleId :

SY-3DD

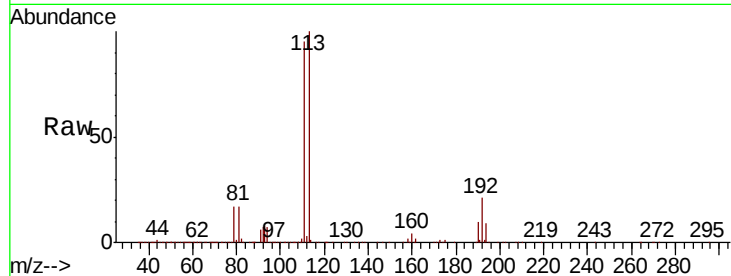
Tot Ion:113 Resp: 254068

Ion Ratio Lower Upper

113 100

111 101.0 80.7 121.1

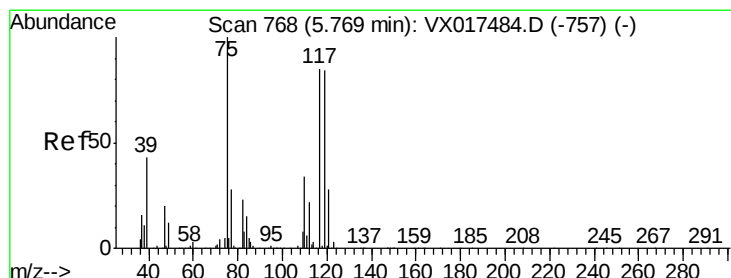
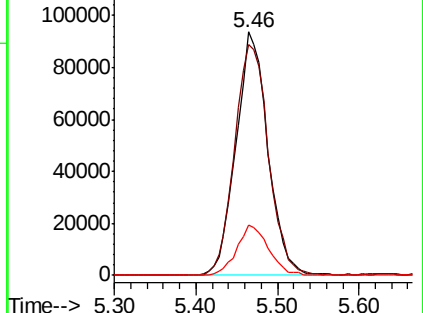
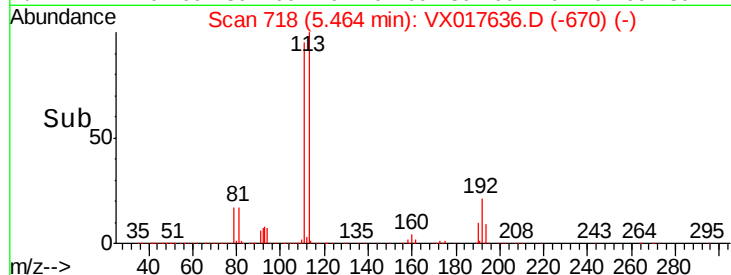
192 20.4 16.9 25.3



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: 4.680 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

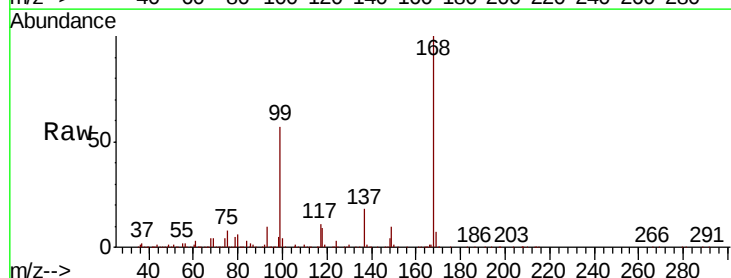
Tgt Ion: 75 Resp: 33274

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.3#

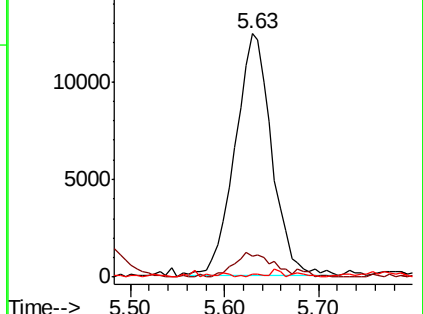
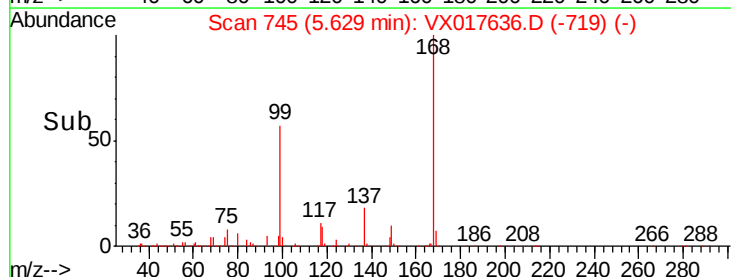
77 0.0 24.6 37.0#

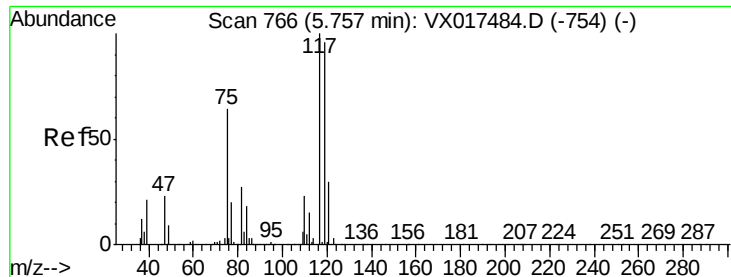


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.250 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampleId :

SY-3DD

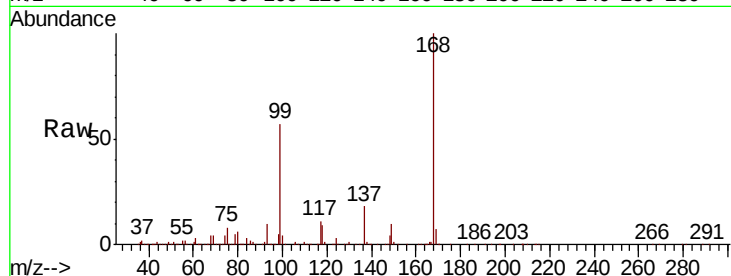
Tot Ion:117 Resp: 45325

Ion Ratio Lower Upper

117 100

119 6.3 75.4 113.0#

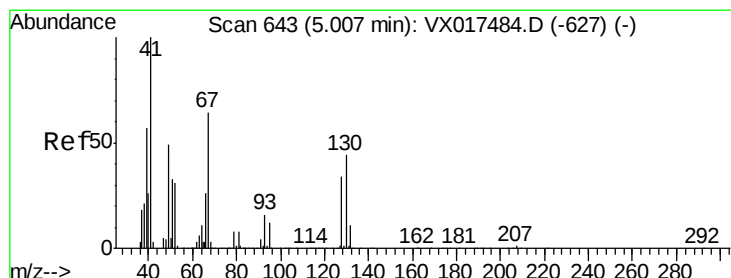
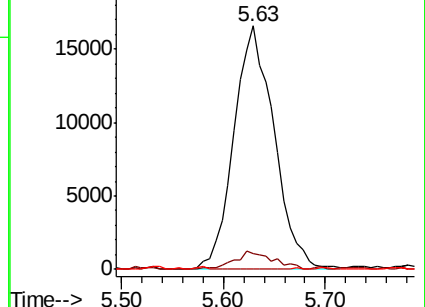
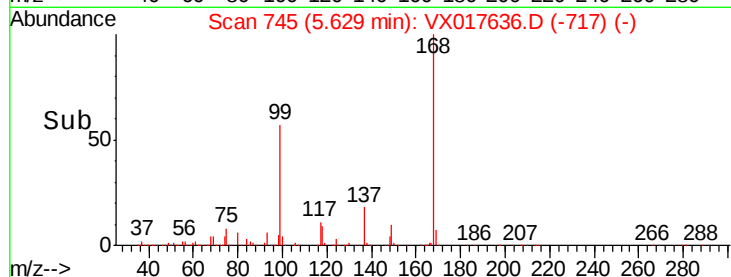
121 0.0 24.3 36.5#



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



#41

Methacrylonitrile

Concen: 0.251 ug/l

RT: 4.99 min Scan# 640

Delta R.T. -0.02 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Tgt Ion: 41 Resp: 1119

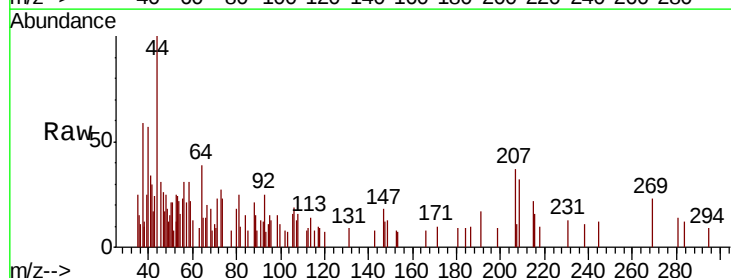
Ion Ratio Lower Upper

41 100

39 0.0 43.9 65.9#

67 35.4 54.0 81.0#

52 16.4 23.0 34.6#

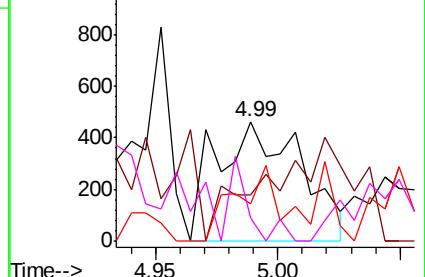
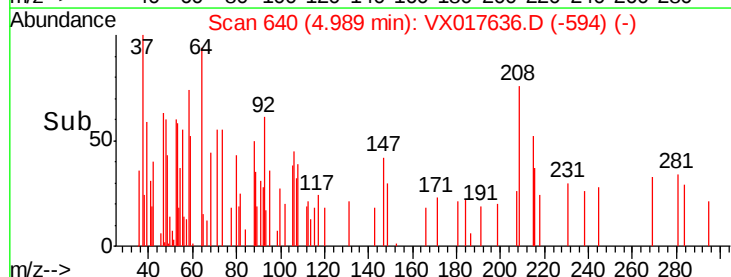


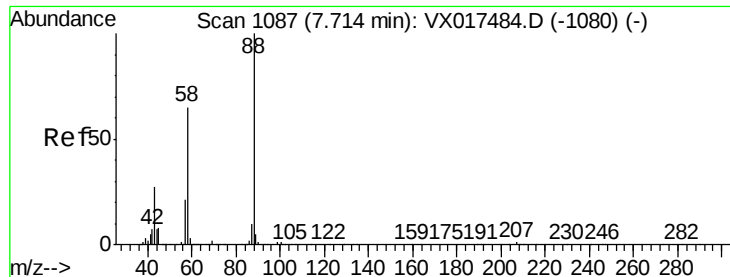
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#49

1,4-Dioxane

Concen: 1.099 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampleId :

SY-3DD

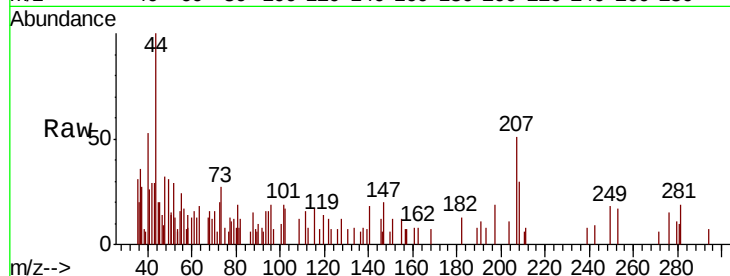
Tot Ion: 88 Resp: 134

Ion Ratio Lower Upper

88 100

43 261.2 27.8 41.6#

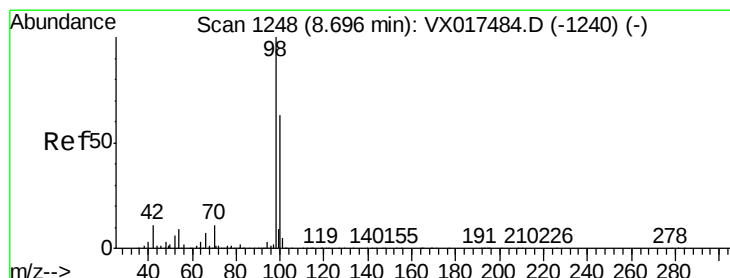
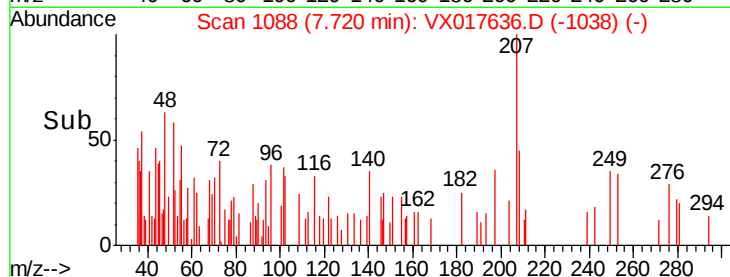
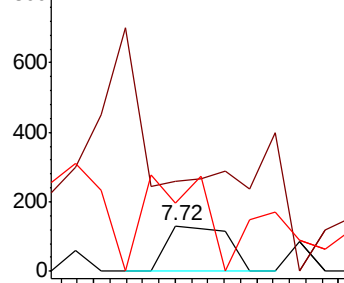
58 203.7 58.3 87.5#



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



#50

Toluene-d8

Concen: 50.109 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017636.D

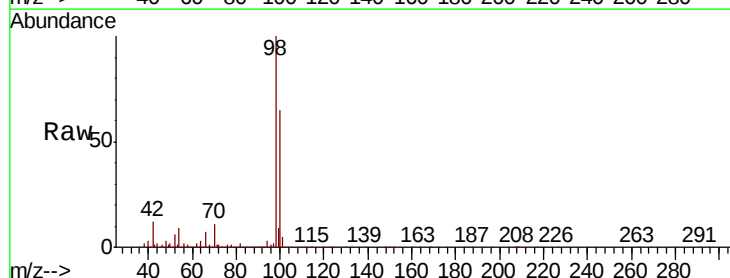
Acq: 27 Jul 2020 22:43

Tgt Ion: 98 Resp: 896184

Ion Ratio Lower Upper

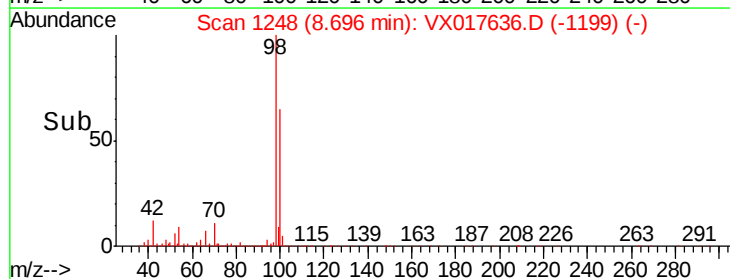
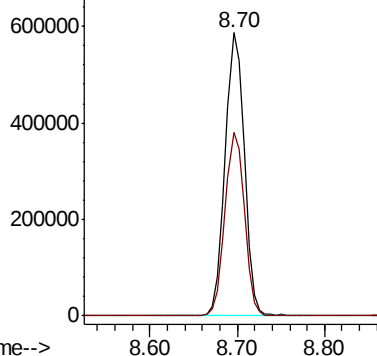
98 100

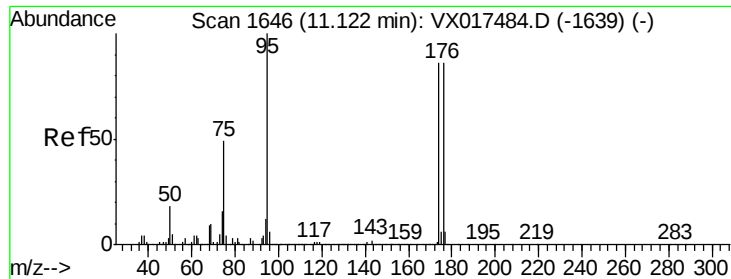
100 65.5 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

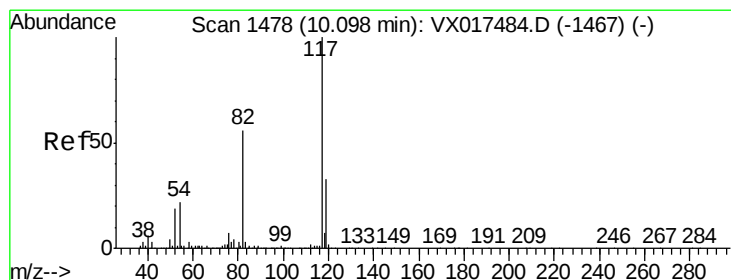
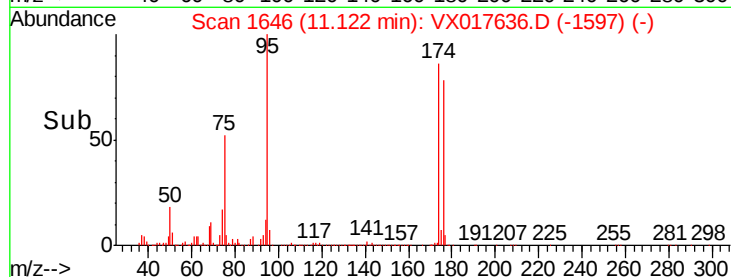
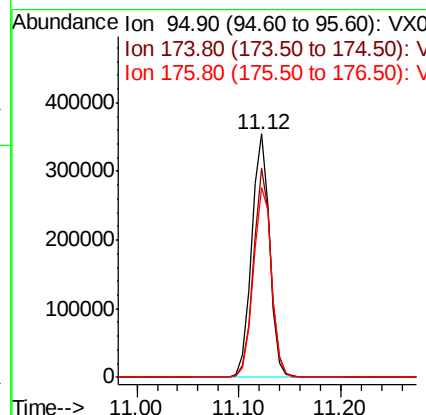
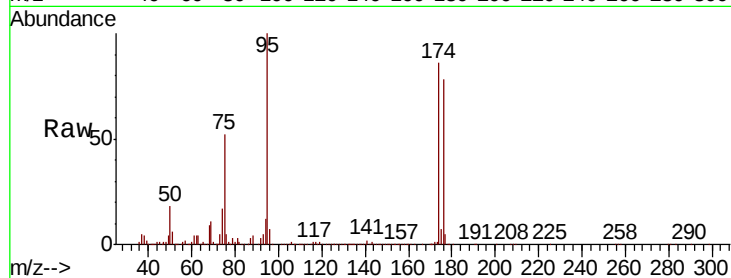




#62
4-Bromofluorobenzene
Concen: 60.269 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

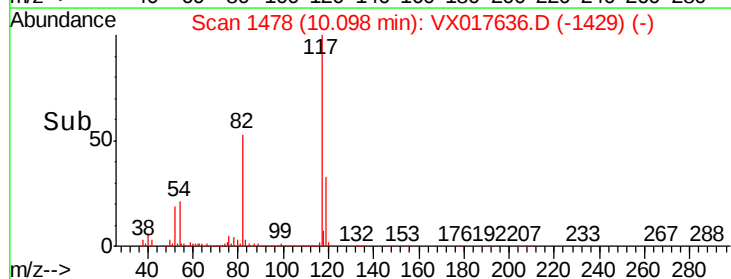
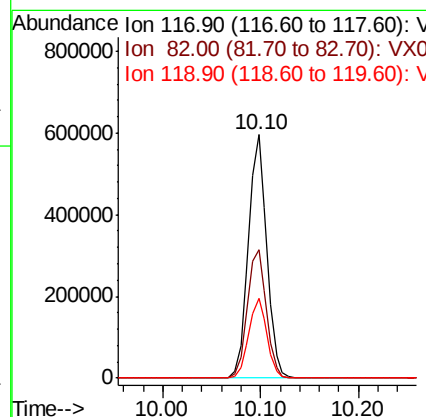
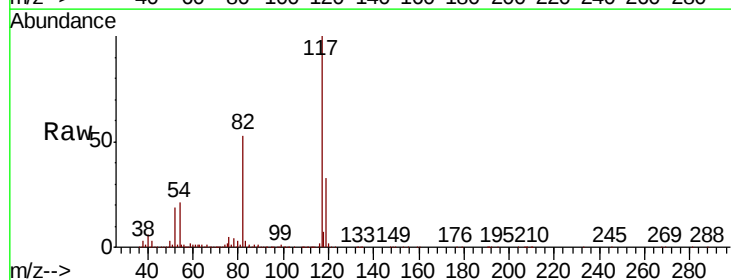
Instrument :
MSVOA_X
ClientSampleId :
SY-3DD

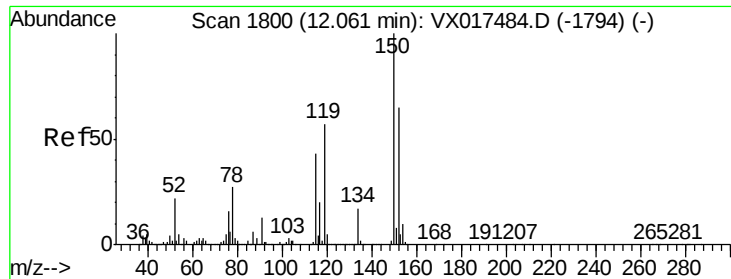
Tot Ion: 95 Resp: 431375
Ion Ratio Lower Upper
95 100
174 84.9 0.0 169.0
176 80.2 0.0 161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017636.D
Acq: 27 Jul 2020 22:43

Tgt Ion: 117 Resp: 776661
Ion Ratio Lower Upper
117 100
82 52.5 44.0 66.0
119 32.6 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: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampleId :

SY-3DD

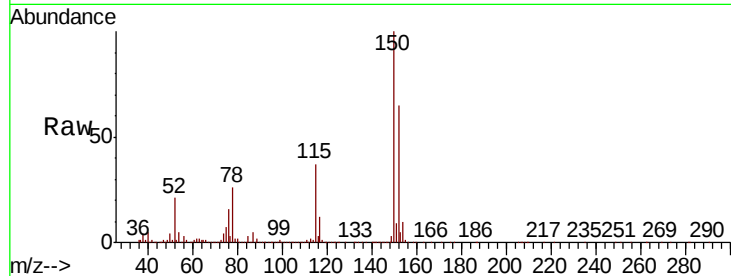
Tot Ion:152 Resp: 486165

Ion Ratio Lower Upper

152 100

115 57.3 65.5 196.6#

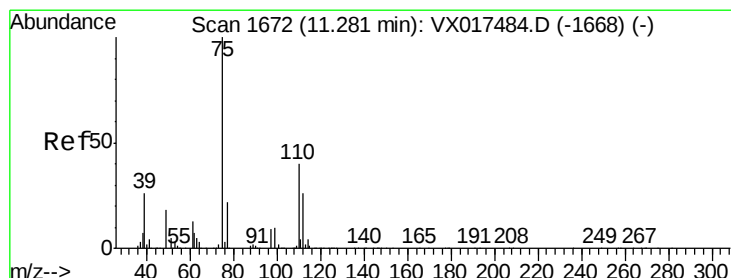
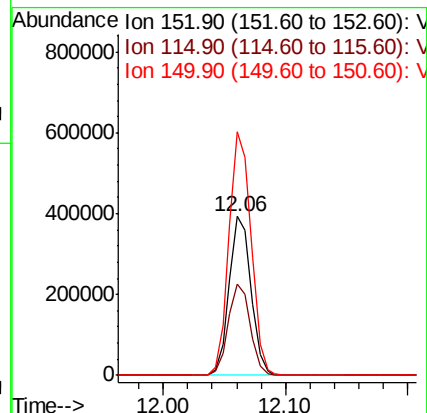
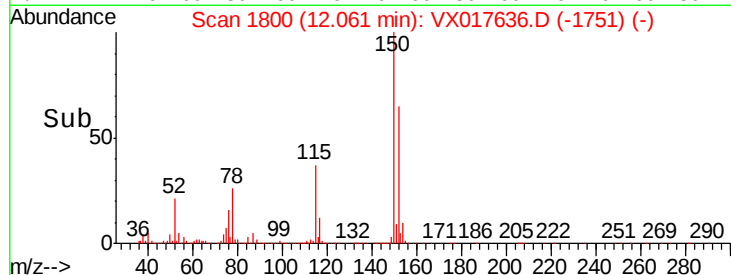
150 154.2 0.0 412.6



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



#76

1,2,3-Trichloropropane

Concen: 22.370 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017636.D

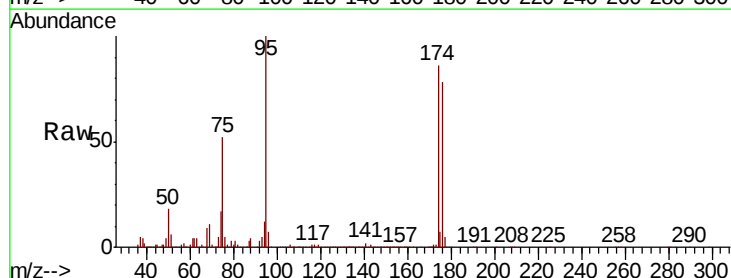
Acq: 27 Jul 2020 22:43

Tgt Ion: 75 Resp: 223710

Ion Ratio Lower Upper

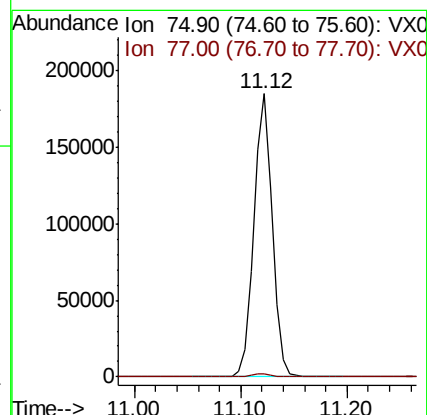
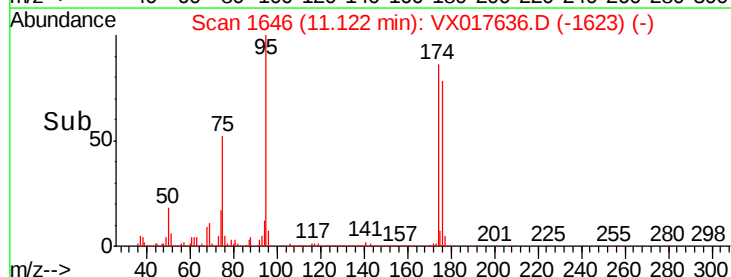
75 100

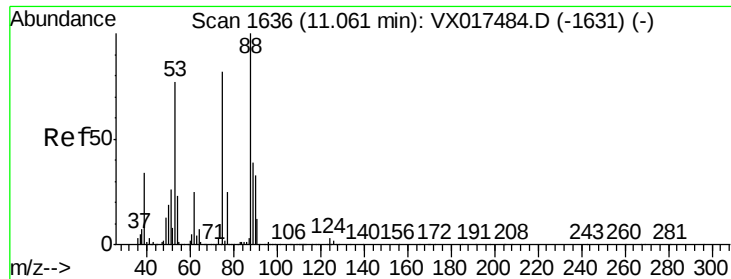
77 1.2 21.8 65.3#



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: 56.366 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Instrument :

MSVOA_X

ClientSampleId :

SY-3DD

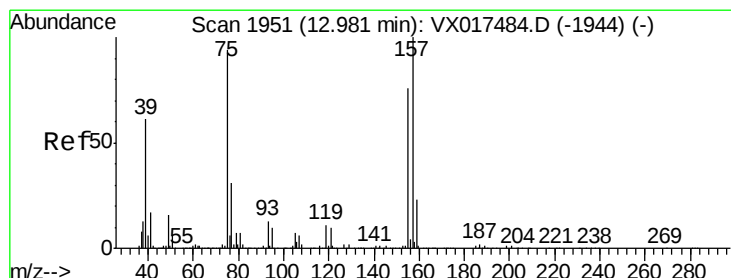
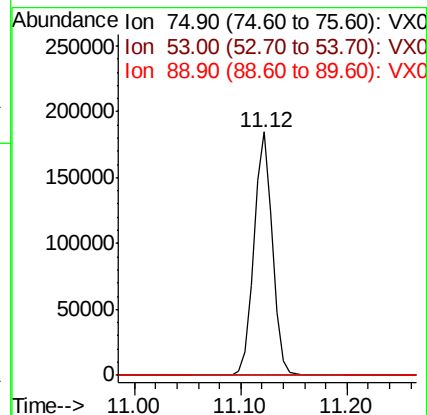
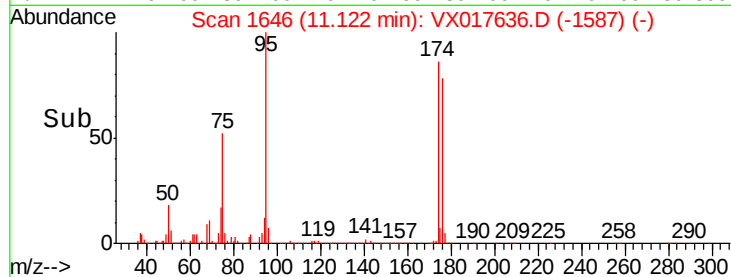
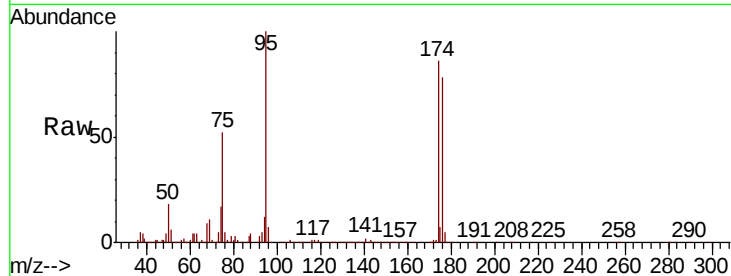
Tot Ion: 75 Resp: 223710

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

89 0.0 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.607 ug/l

RT: 12.76 min Scan# 1914

Delta R.T. -0.23 min

Lab File: VX017636.D

Acq: 27 Jul 2020 22:43

Tgt Ion: 75 Resp: 95

Ion Ratio Lower Upper

75 100

155 89.5 42.3 126.8

157 97.9 54.3 162.9

