

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072820\
 Data File : VX017651.D
 Acq On : 28 Jul 2020 14:23
 Operator : JC/SP
 Sample : L3371-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 29 02:27:11 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	497300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	838620	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	899964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	498279	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	345332	54.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.12%	
35) Dibromofluoromethane	5.47	113	292242	52.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.20%	
50) Toluene-d8	8.70	98	1048985	51.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.68%	
62) 4-Bromofluorobenzene	11.12	95	461468	56.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.98%	

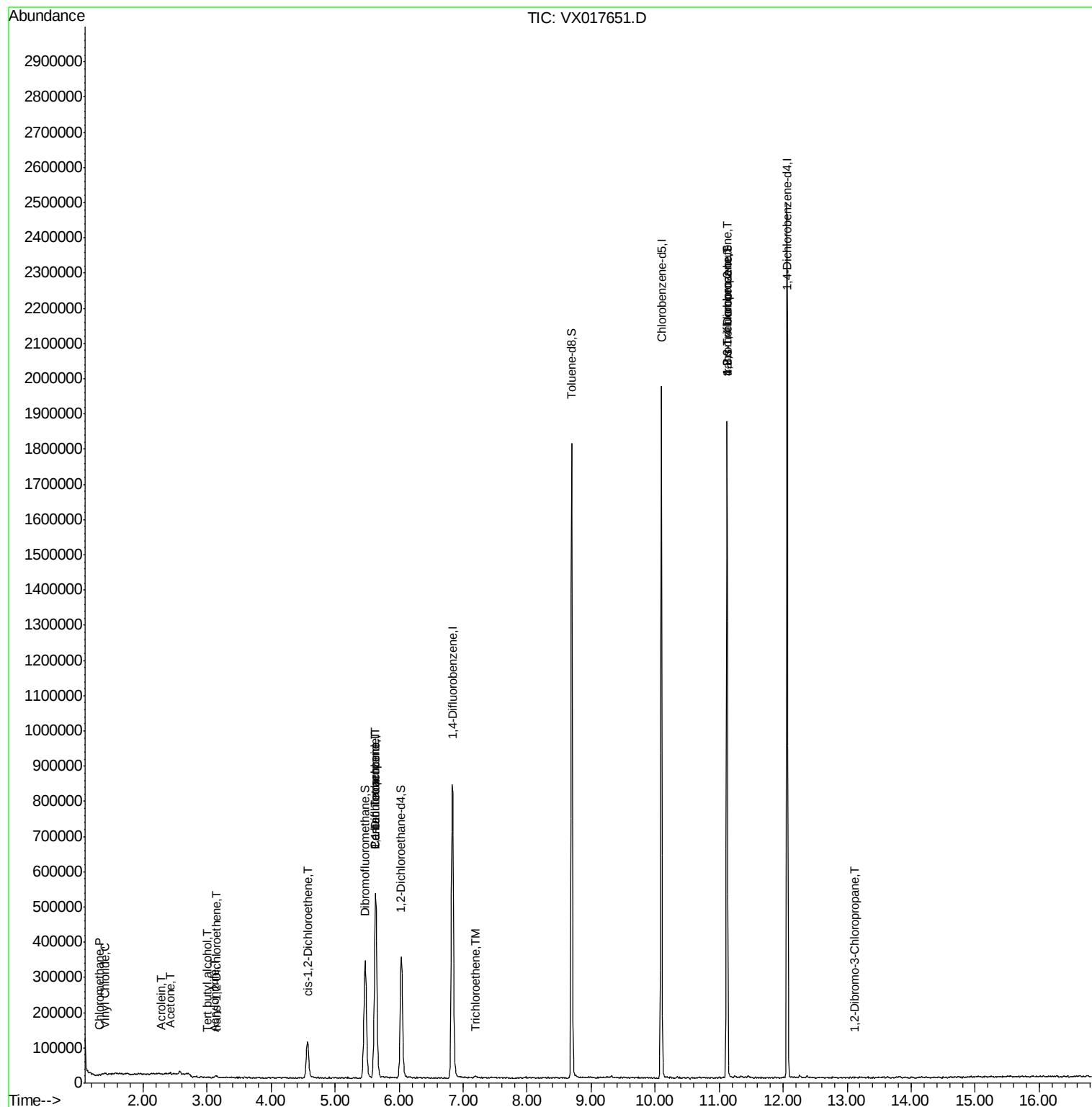
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	397	Below Cal		77
3) Chloromethane	1.31	50	1552	0.617 ug/l #		73
4) Vinyl Chloride	1.40	62	1252	0.200 ug/l #		47
5) Bromomethane	1.64	94	526	Below Cal		89
6) Chloroethane	1.73	64	480	Below Cal #		73
8) Diethyl Ether	2.16	74	551	Below Cal		80
11) Tert butyl alcohol	3.00	59	511	0.380 ug/l #		1
13) Acrolein	2.27	56	616	4.738 ug/l #		49
15) Acrylonitrile	3.11	53	805	0.277 ug/l #		34
16) Acetone	2.42	43	2246	0.799 ug/l #		52
20) Methylene Chloride	2.84	84	1439	Below Cal #		70
21) trans-1,2-Dichloroethene	3.14	96	2874	0.522 ug/l #		64
27) cis-1,2-Dichloroethene	4.57	96	66813	11.179 ug/l		88
36) 1,1-Dichloropropene	5.63	75	37195	4.624 ug/l #		52
38) Carbon Tetrachloride	5.64	117	51303	5.253 ug/l #		16
44) Trichloroethene	7.19	130	1558	0.231 ug/l		31
76) 1,2,3-Trichloropropane	11.12	75	236069	23.032 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	236069	58.034 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	13.12	75	100	2.608 ug/l		65

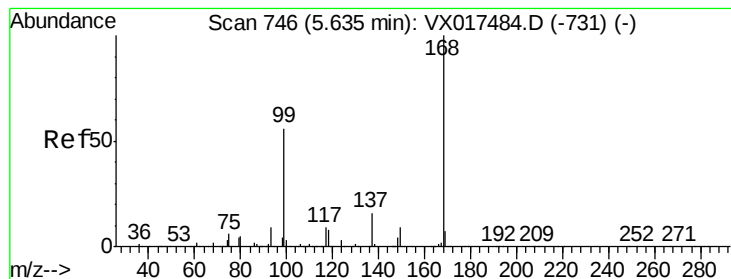
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017651.D

Acq: 28 Jul 2020 14:23

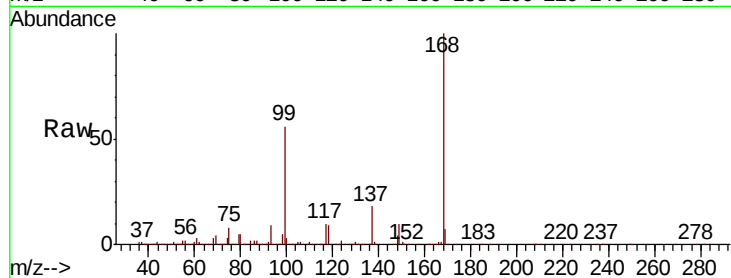
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 497300

Ion Ratio Lower Upper

168 100

99 55.6 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

200000

150000

100000

50000

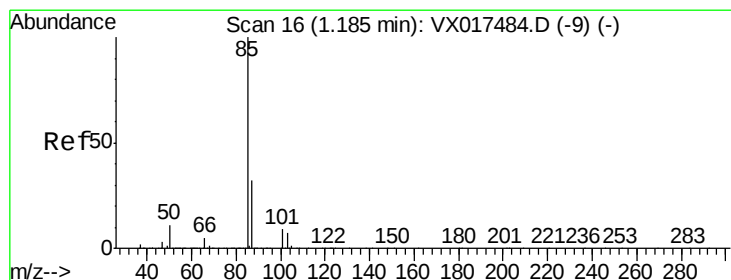
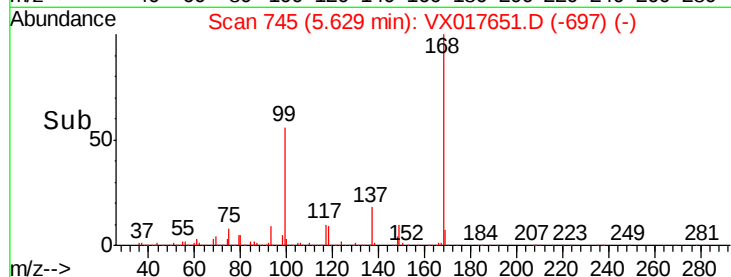
0

Time-->

5.50

5.60

5.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017651.D

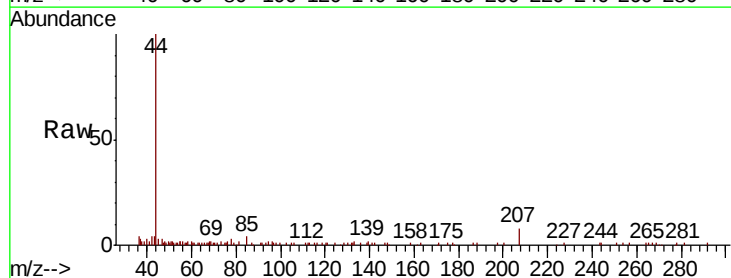
Acq: 28 Jul 2020 14:23

Tgt Ion: 85 Resp: 397

Ion Ratio Lower Upper

85 100

87 19.3 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

500

400

300

200

100

0

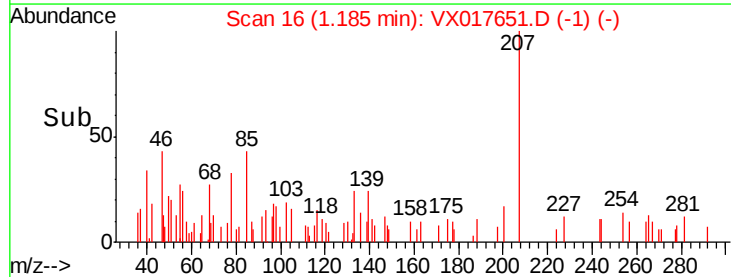
Time-->

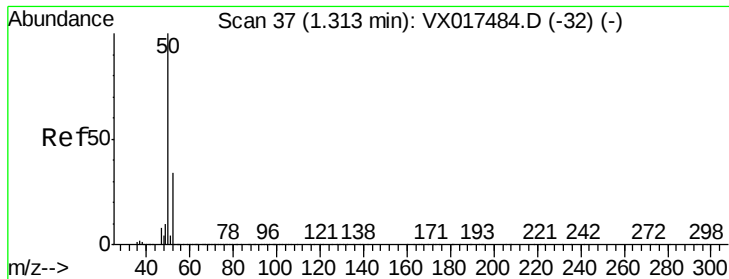
1.16

1.18

1.20

1.22





#3

Chloromethane

Concen: 0.617 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

Instrument :

MSVOA_X

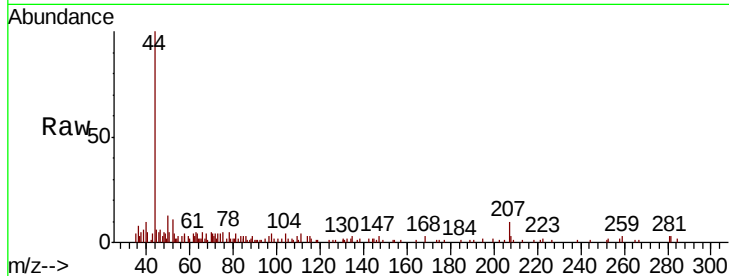
ClientSampleId :

Tot Ion: 50 Resp: 1552

Ion Ratio Lower Upper

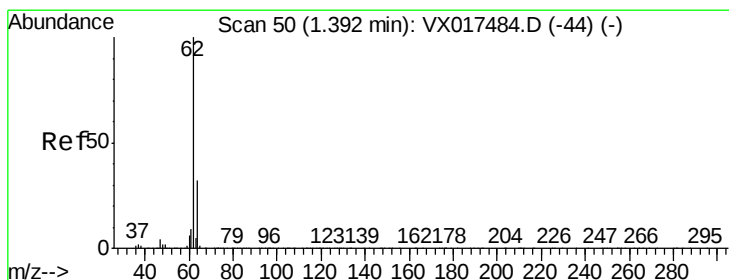
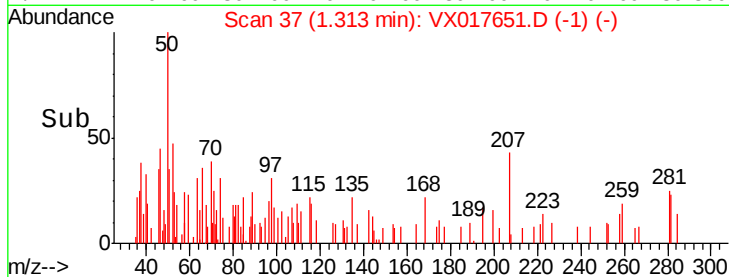
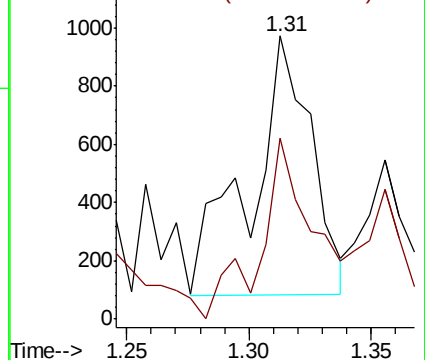
50 100

52 47.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.200 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX017651.D

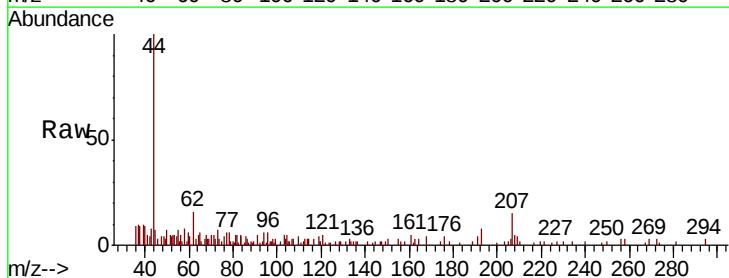
Acq: 28 Jul 2020 14:23

Tgt Ion: 62 Resp: 1252

Ion Ratio Lower Upper

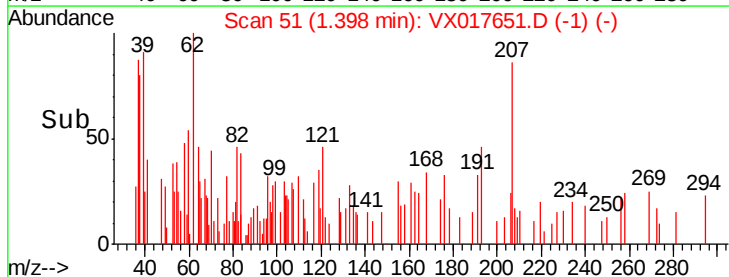
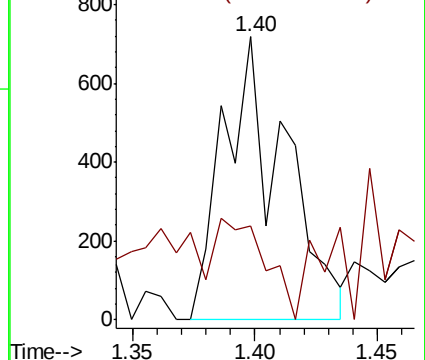
62 100

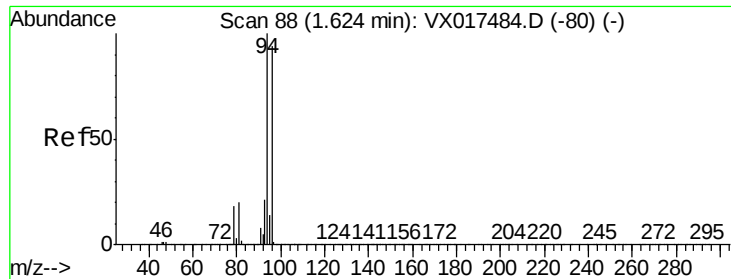
64 1.9 25.2 37.8#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

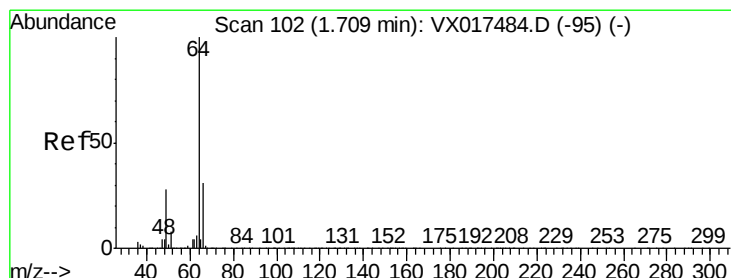
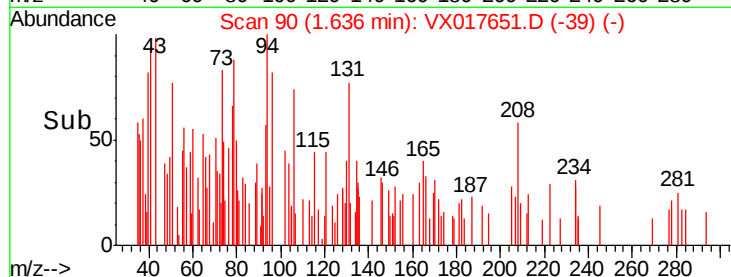
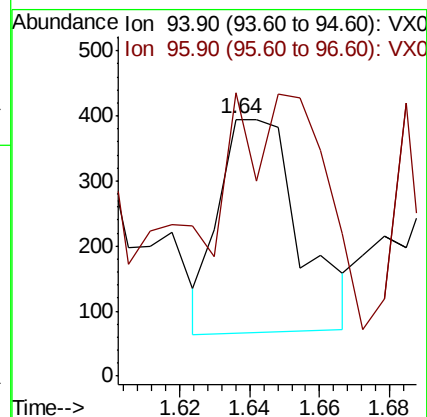
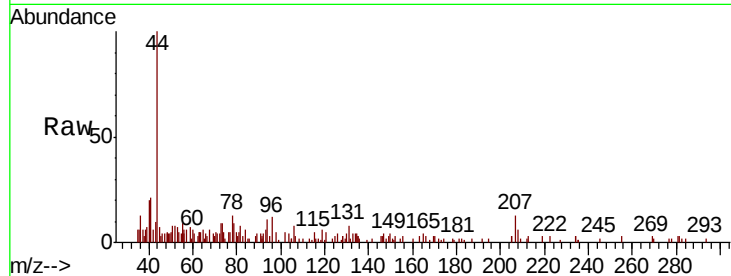
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 526

Ion Ratio Lower Upper

94 100

96 82.4 74.1 111.1



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 105

Delta R.T. 0.02 min

Lab File: VX017651.D

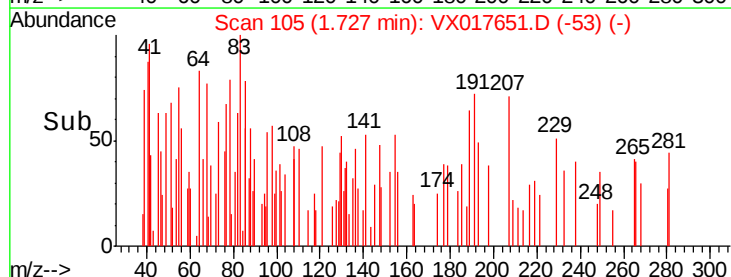
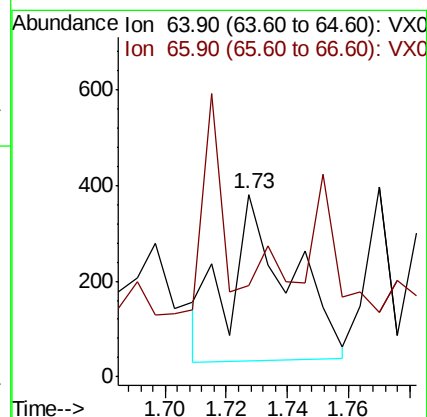
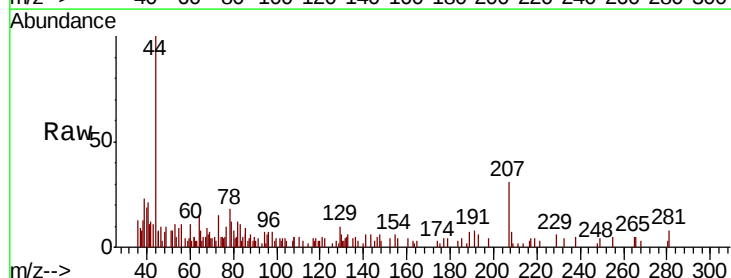
Acq: 28 Jul 2020 14:23

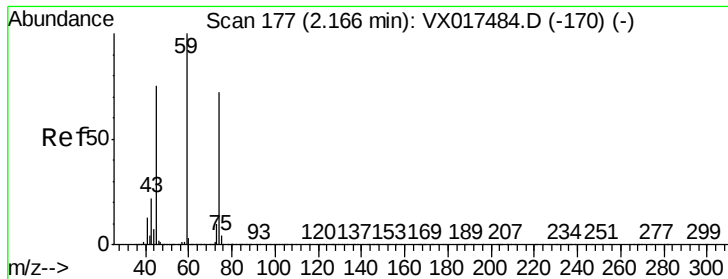
Tgt Ion: 64 Resp: 480

Ion Ratio Lower Upper

64 100

66 16.0 24.9 37.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

Instrument :

MSVOA_X

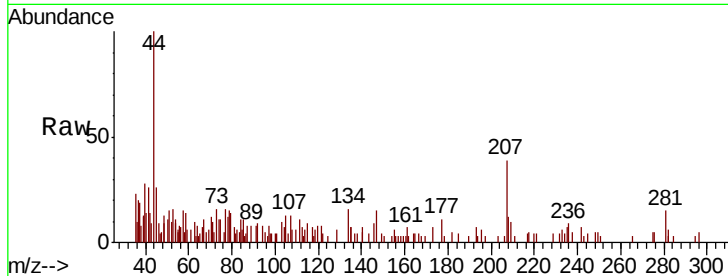
ClientSampled :

Tot Ion: 74 Resp: 551

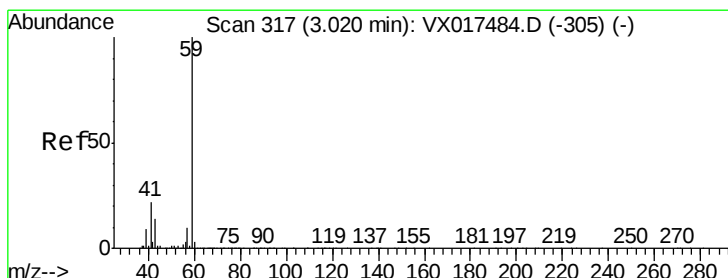
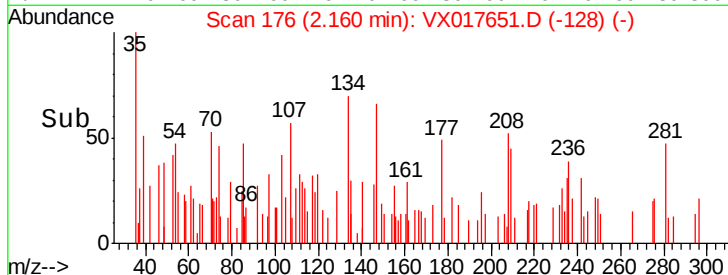
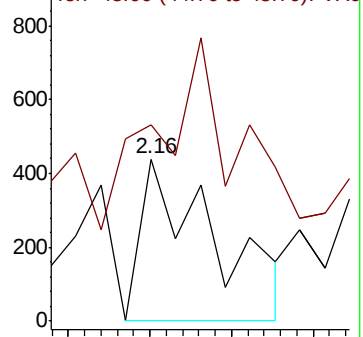
Ion Ratio Lower Upper

74 100

45 122.1 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0



#11

Tert butyl alcohol

Concen: 0.380 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX017651.D

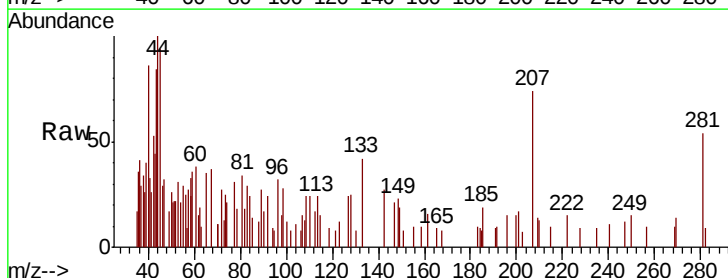
Acq: 28 Jul 2020 14:23

Tgt Ion: 59 Resp: 511

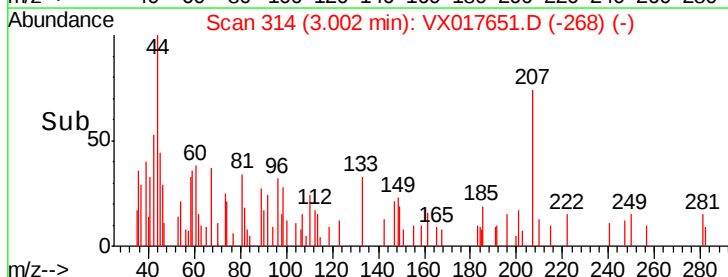
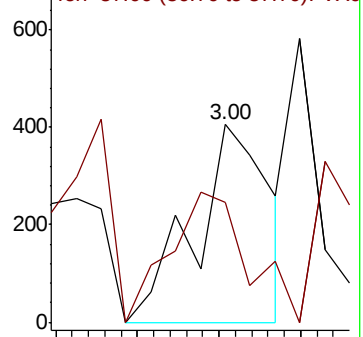
Ion Ratio Lower Upper

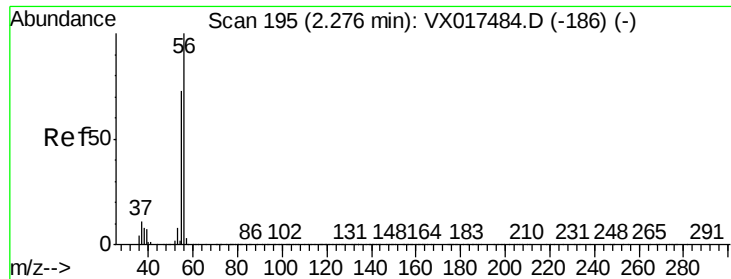
59 100

57 61.4 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0





#13

Acrolein

Concen: 4.738 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

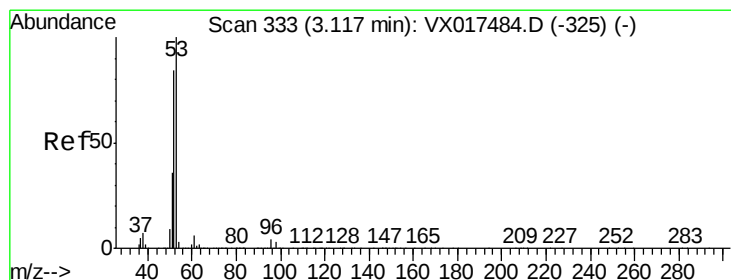
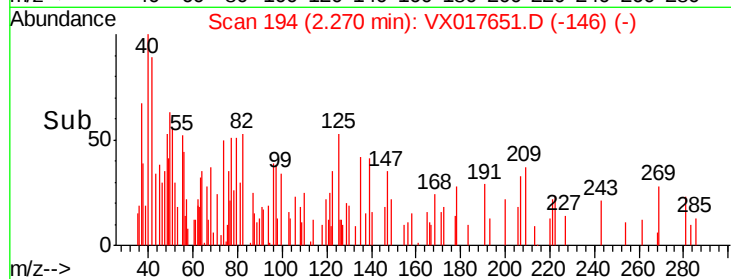
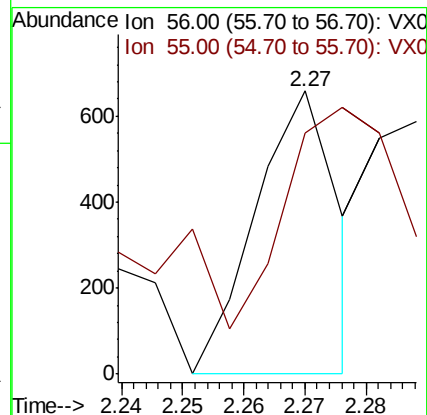
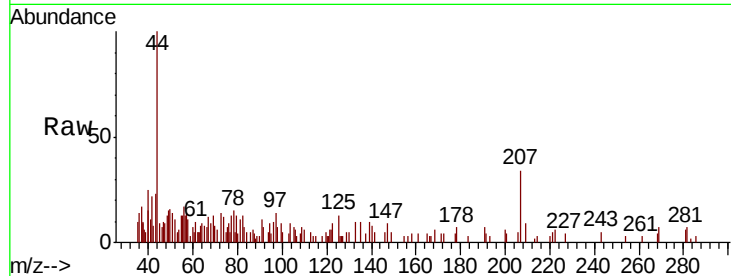
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 616

Ion Ratio Lower Upper

56 100

55 114.0 57.4 86.2#



#15

Acrylonitrile

Concen: 0.277 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

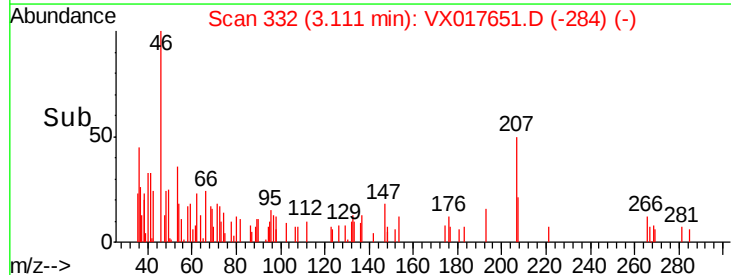
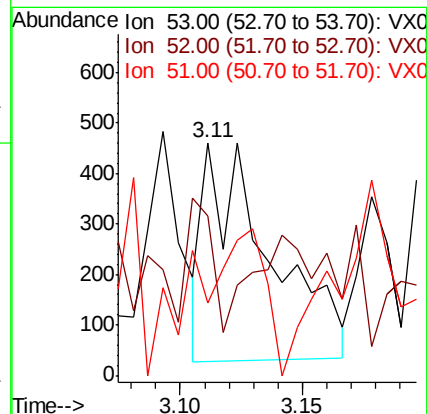
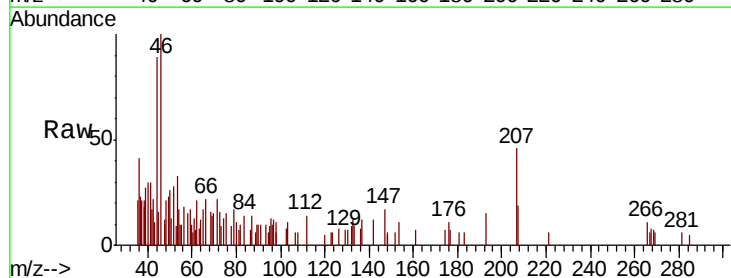
Tgt Ion: 53 Resp: 805

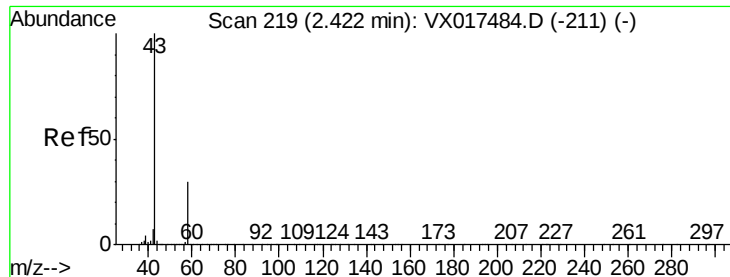
Ion Ratio Lower Upper

53 100

52 22.5 66.6 99.8#

51 0.0 29.4 44.2#

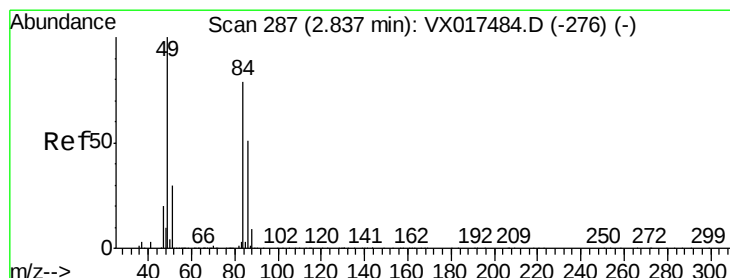
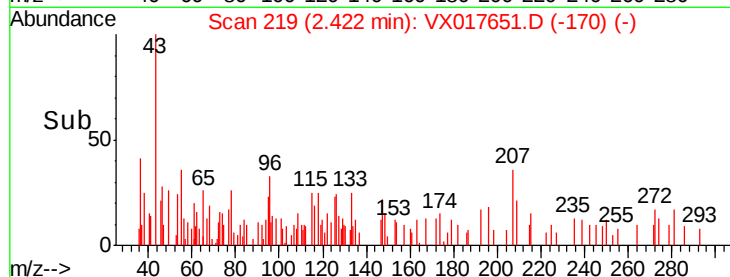
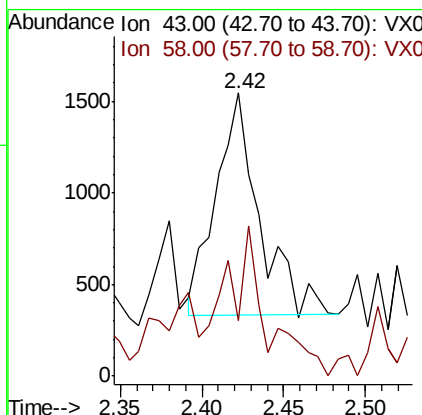
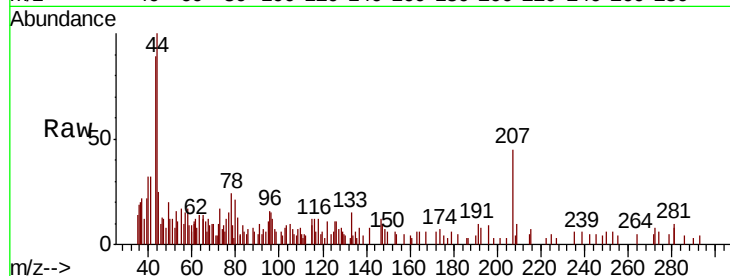




#16
Acetone
Concen: 0.799 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017651.D
Acq: 28 Jul 2020 14:23

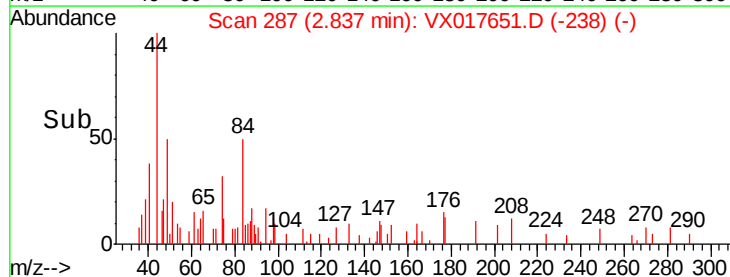
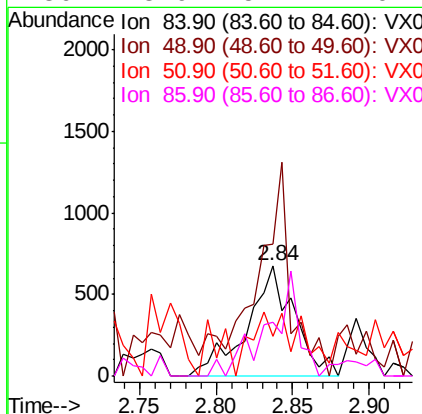
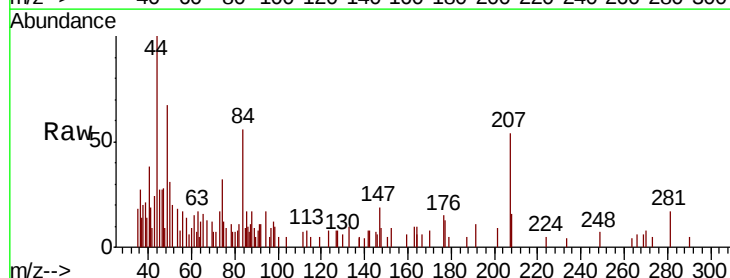
Instrument :
MSVOA_X
ClientSampleId :

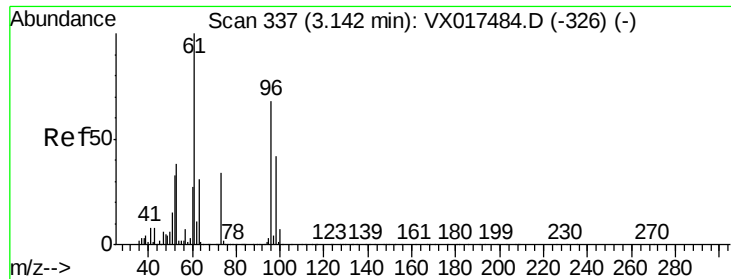
Tot Ion: 43 Resp: 2246
Ion Ratio Lower Upper
43 100
58 4.0 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017651.D
Acq: 28 Jul 2020 14:23

Tgt Ion: 84 Resp: 1439
Ion Ratio Lower Upper
84 100
49 84.2 100.3 150.5#
51 19.8 30.5 45.7#
86 48.9 51.1 76.7#





#21

trans-1,2-Dichloroethene

Concen: 0.522 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

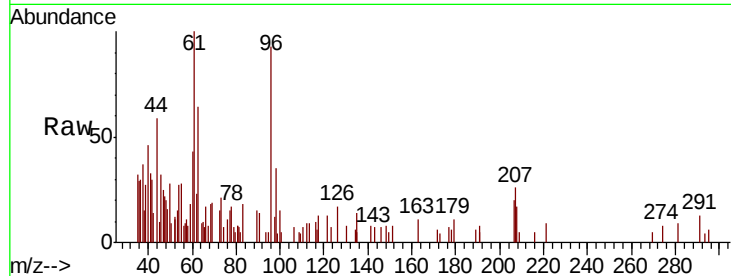
Tot Ion: 96 Resp: 2874

Ion Ratio Lower Upper

96 100

61 107.2 113.0 169.4#

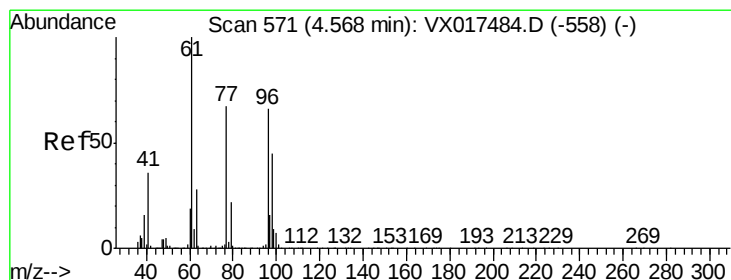
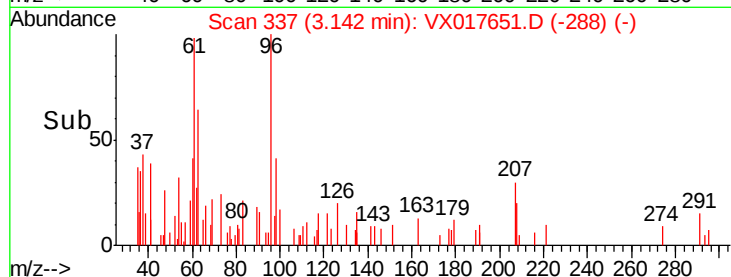
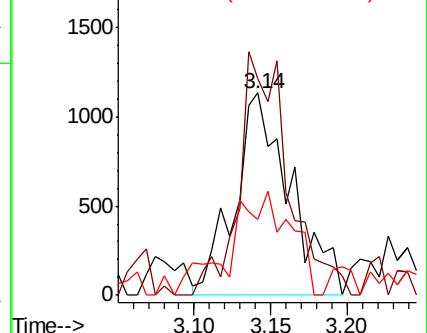
98 23.6 51.8 77.8#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 11.179 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

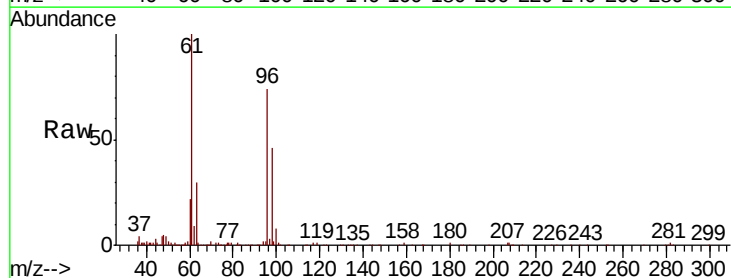
Tgt Ion: 96 Resp: 66813

Ion Ratio Lower Upper

96 100

61 128.8 0.0 301.2

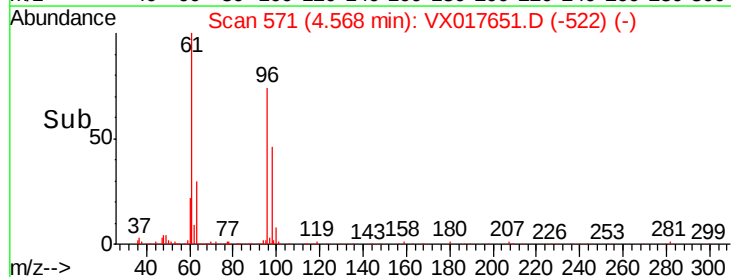
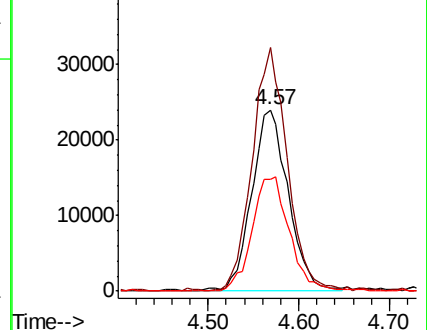
98 64.0 0.0 130.0

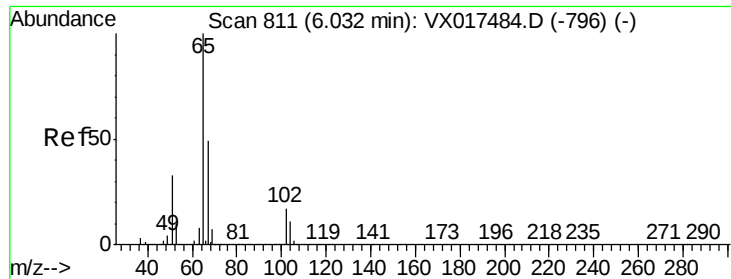


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.059 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

Instrument :

MSVOA_X

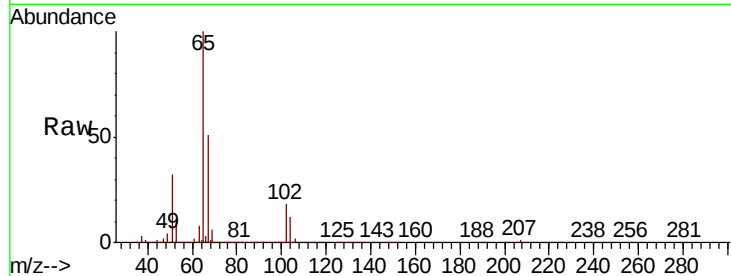
ClientSampleId :

Tot Ion: 65 Resp: 345332

Ion Ratio Lower Upper

65 100

67 51.2 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

150000

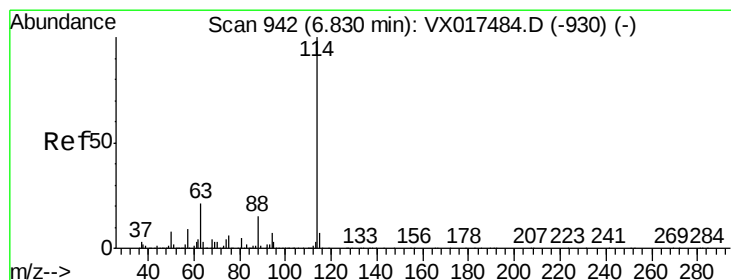
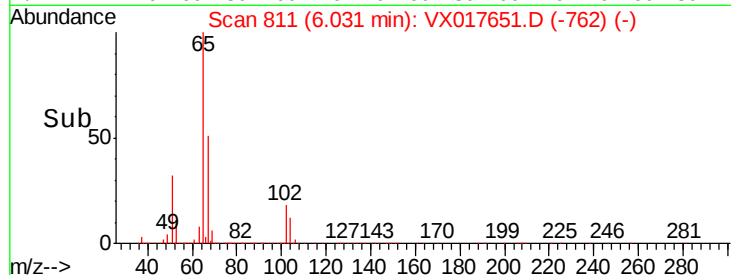
100000

50000

0

Time-->

5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

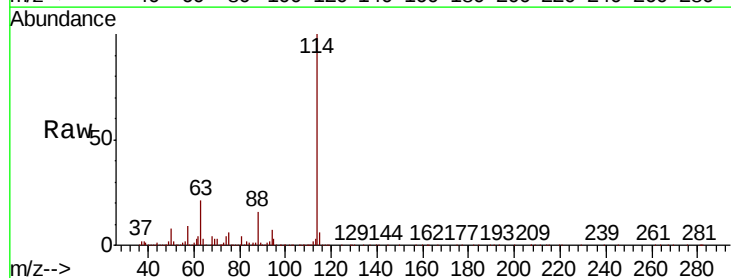
Tgt Ion: 114 Resp: 838620

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.6

88 15.6 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

6.83

400000

300000

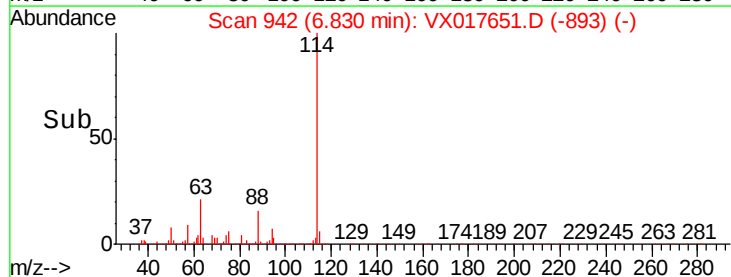
200000

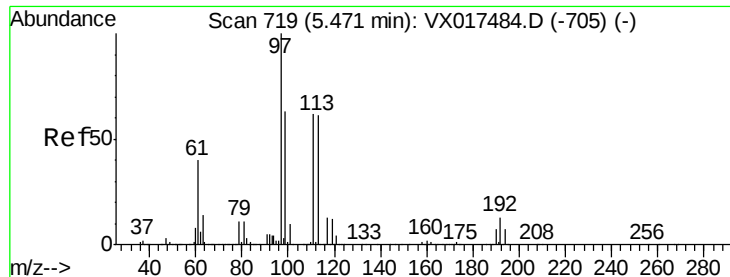
100000

0

Time-->

6.70 6.80 6.90 7.00

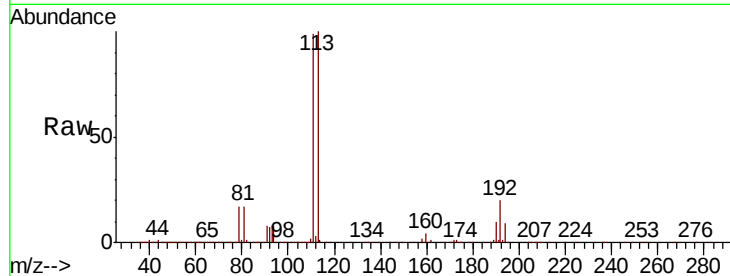




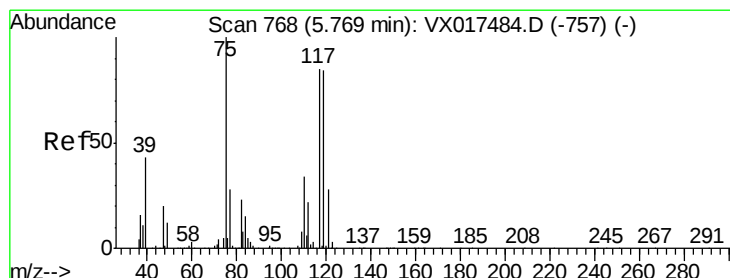
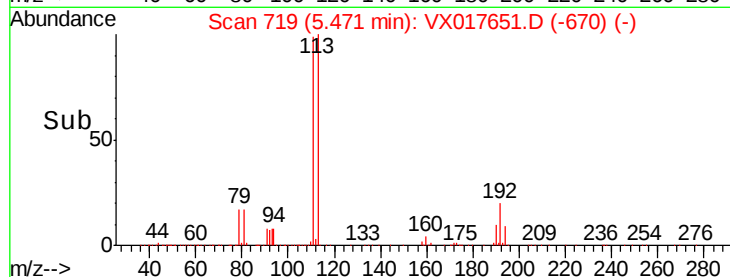
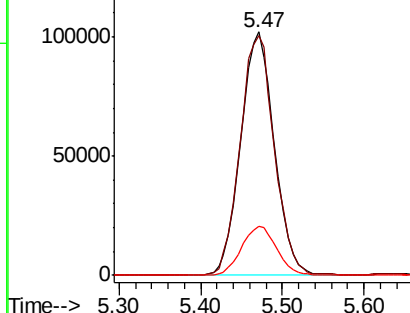
#35
Dibromofluoromethane
Concen: 52.105 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX017651.D
Acq: 28 Jul 2020 14:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:113 Resp: 292242
Ion Ratio Lower Upper
113 100
111 100.3 80.7 121.1
192 21.1 16.9 25.3

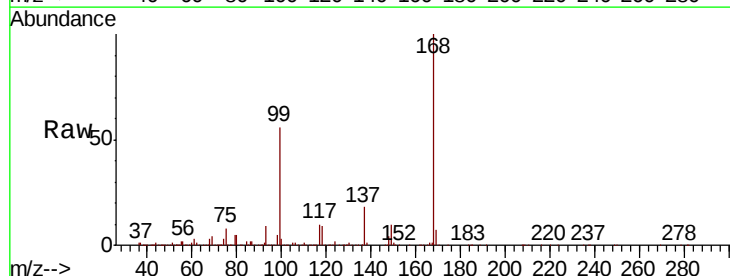


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

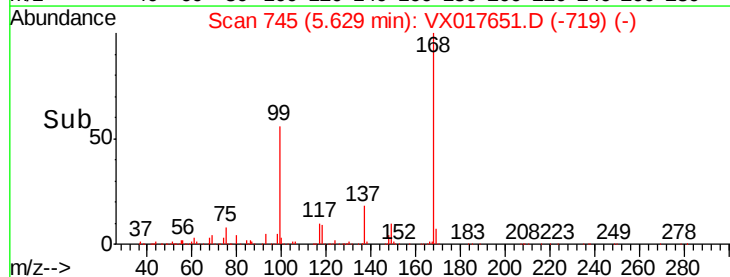
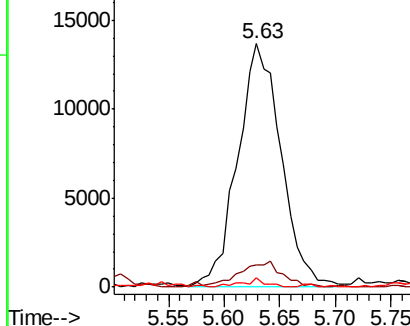


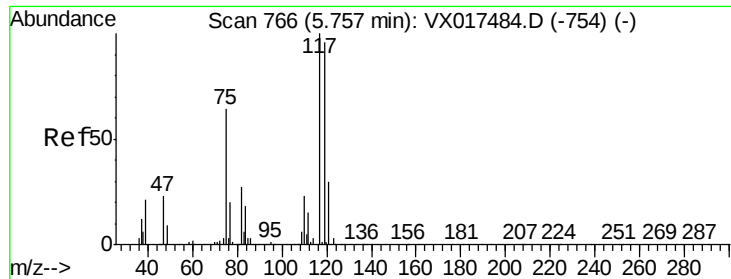
#36
1,1-Dichloropropene
Concen: 4.624 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX017651.D
Acq: 28 Jul 2020 14:23

Tgt Ion: 75 Resp: 37195
Ion Ratio Lower Upper
75 100
110 10.5 18.1 54.3#
77 1.9 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: 5.253 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

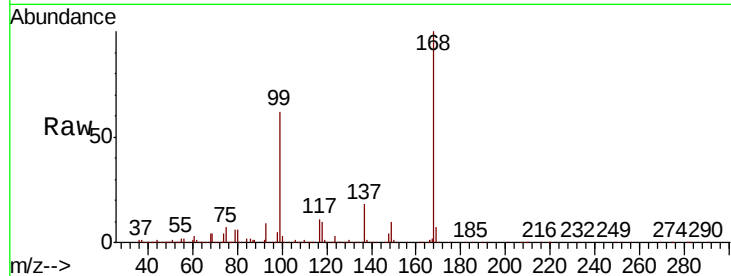
Tot Ion:117 Resp: 51303

Ion Ratio Lower Upper

117 100

119 4.1 75.4 113.0#

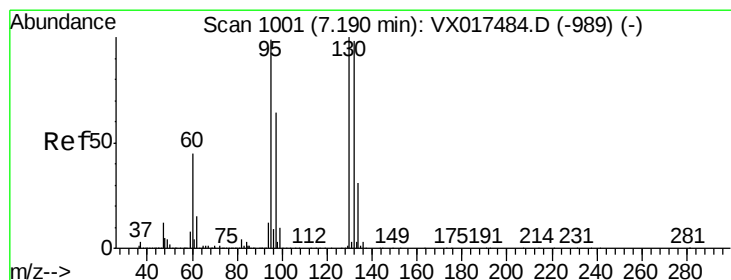
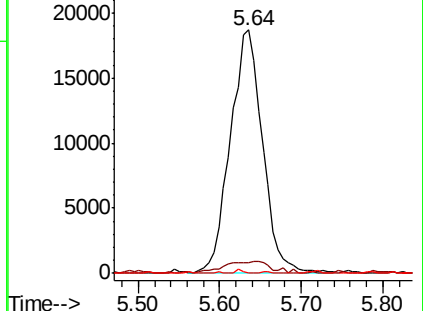
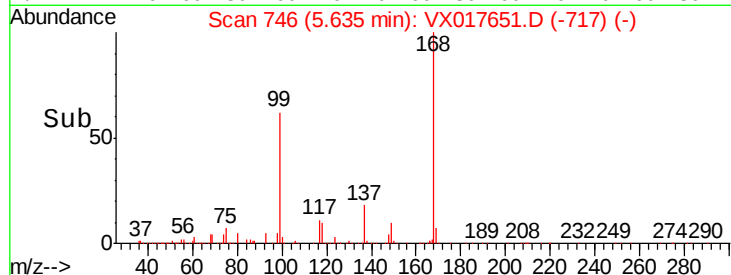
121 0.8 24.3 36.5#



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



#44

Trichloroethene

Concen: 0.231 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX017651.D

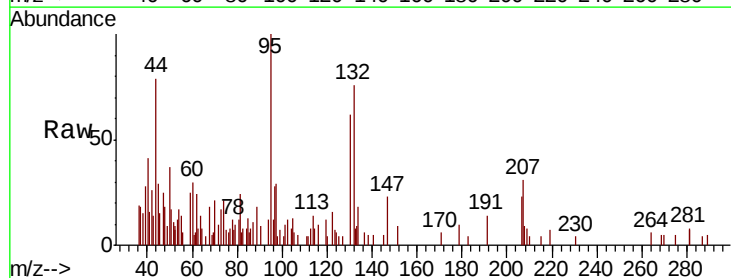
Acq: 28 Jul 2020 14:23

Tgt Ion:130 Resp: 1558

Ion Ratio Lower Upper

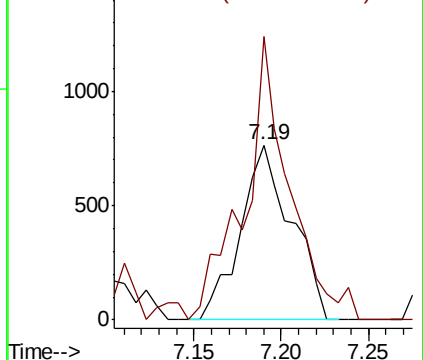
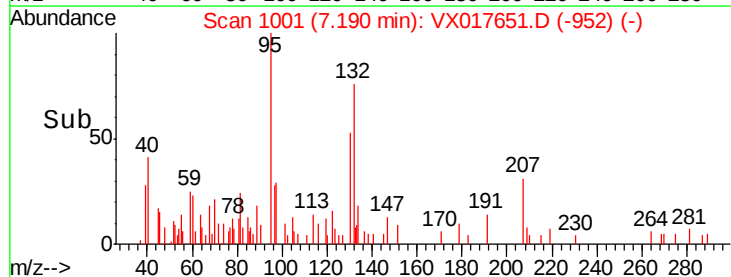
130 100

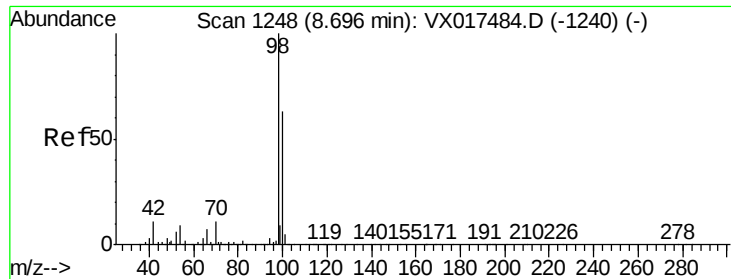
95 161.5 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 51.844 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

Instrument :

MSVOA_X

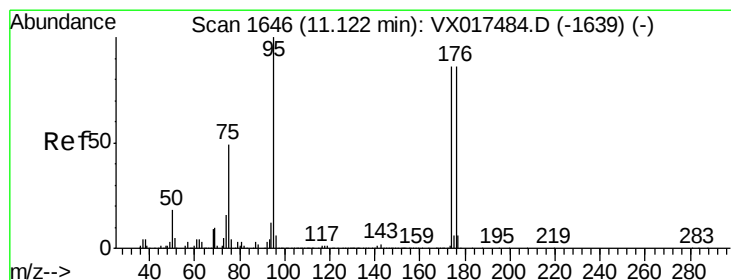
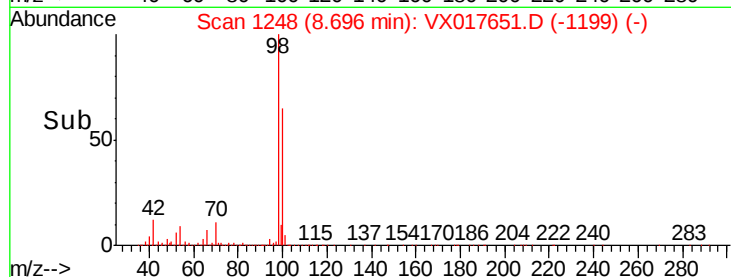
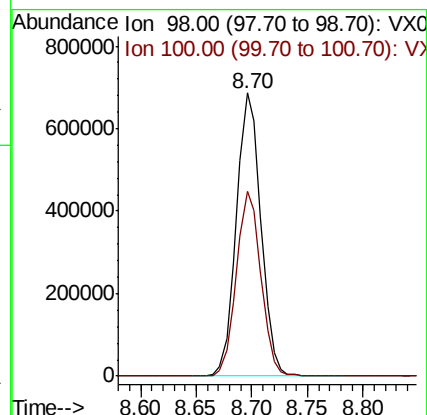
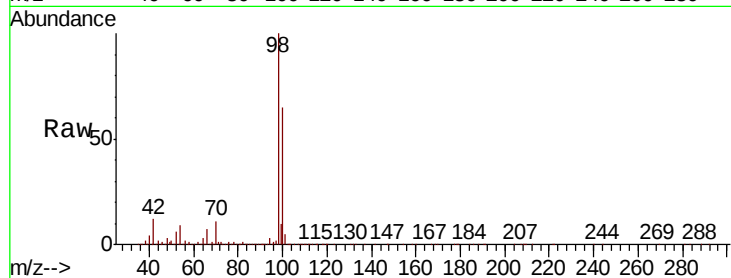
ClientSampleId :

Tot Ion: 98 Resp: 1048985

Ion Ratio Lower Upper

98 100

100 65.1 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 56.989 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

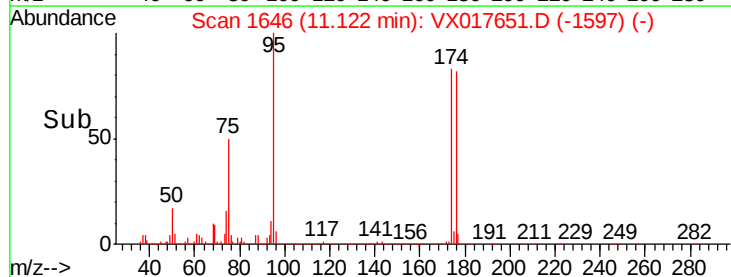
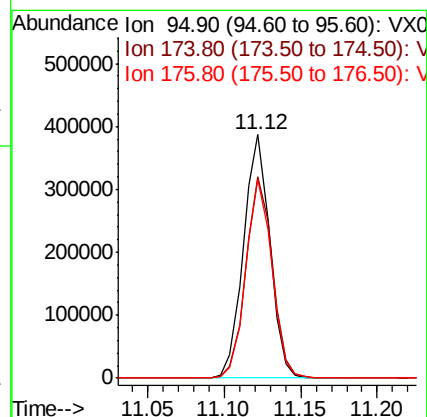
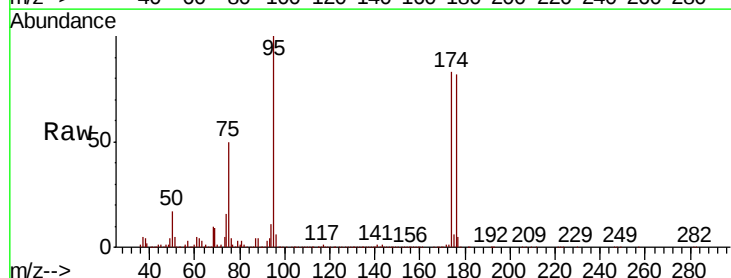
Tgt Ion: 95 Resp: 461468

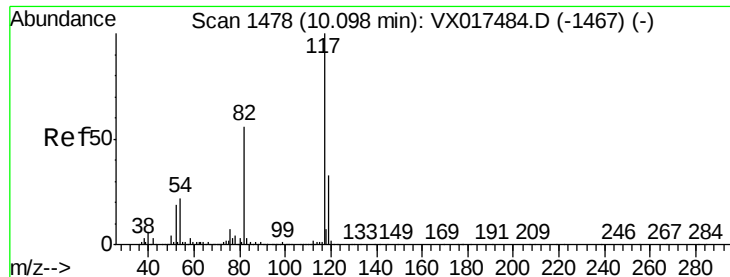
Ion Ratio Lower Upper

95 100

174 83.5 0.0 169.0

176 80.8 0.0 161.0

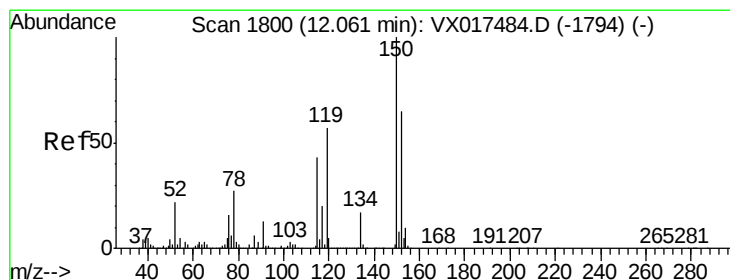
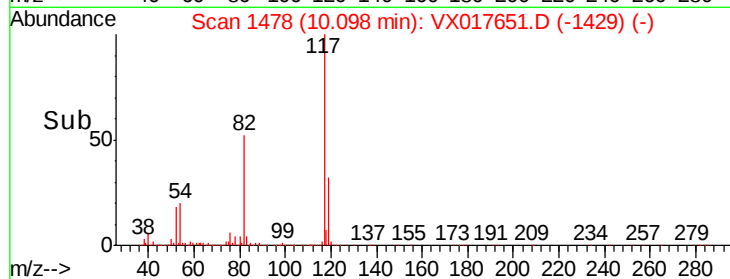
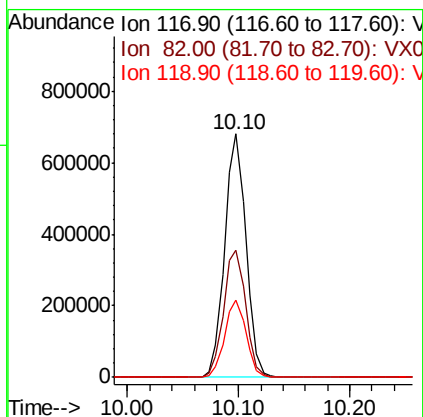
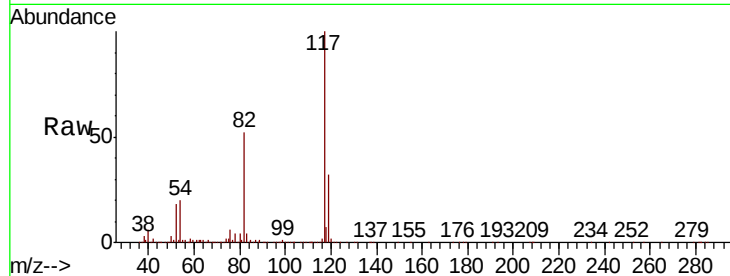




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017651.D
Acq: 28 Jul 2020 14:23

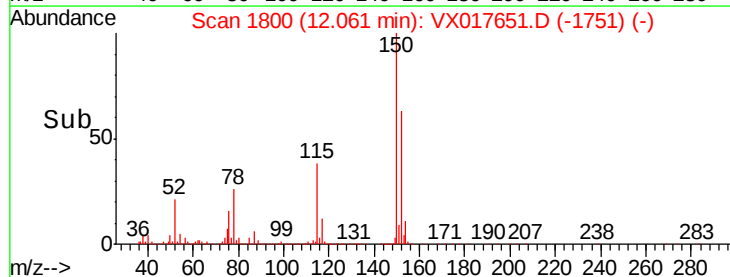
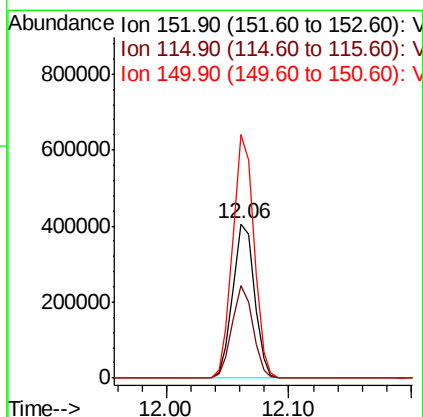
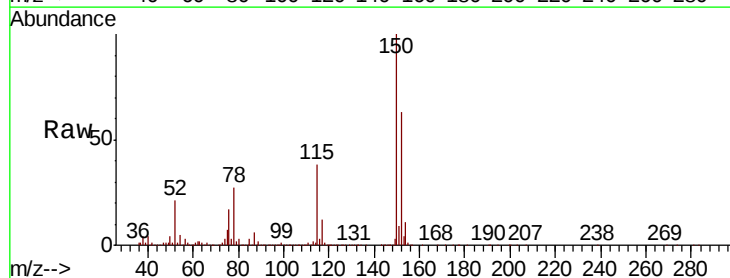
Instrument :
MSVOA_X
ClientSampled :

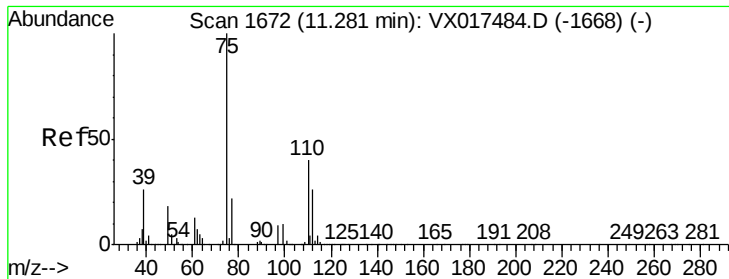
Tot Ion:117 Resp: 899964
Ion Ratio Lower Upper
117 100
82 52.1 44.0 66.0
119 31.8 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017651.D
Acq: 28 Jul 2020 14:23

Tgt Ion:152 Resp: 498279
Ion Ratio Lower Upper
152 100
115 57.5 65.5 196.6#
150 154.3 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.032 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

Instrument :

MSVOA_X

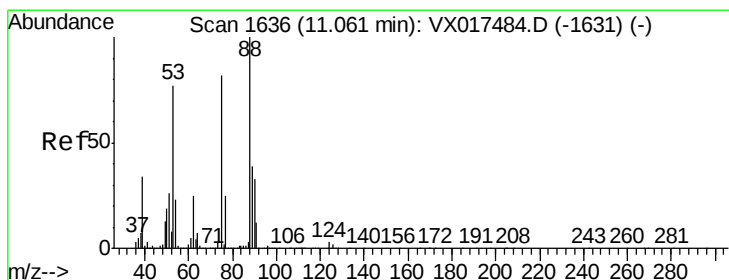
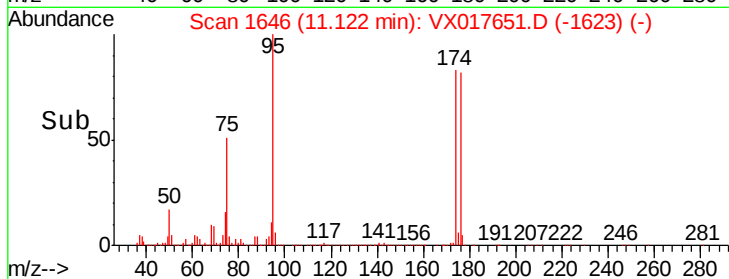
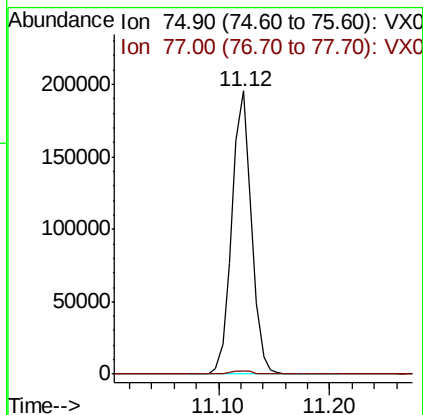
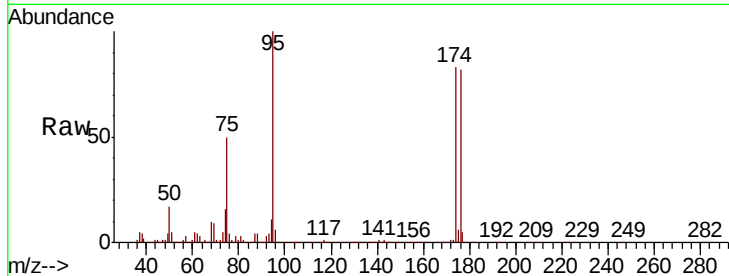
ClientSampled :

Tot Ion: 75 Resp: 236069

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.034 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

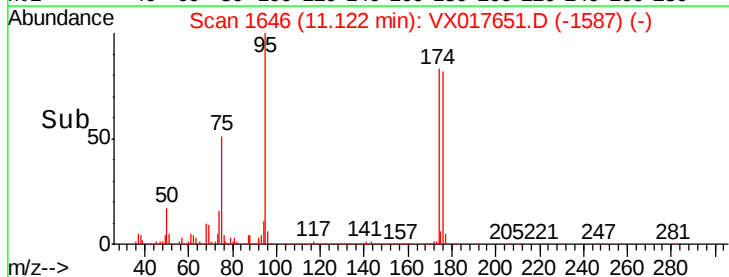
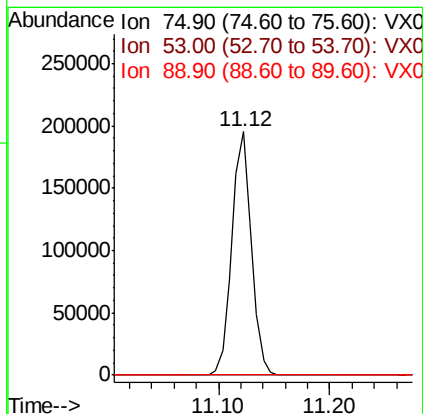
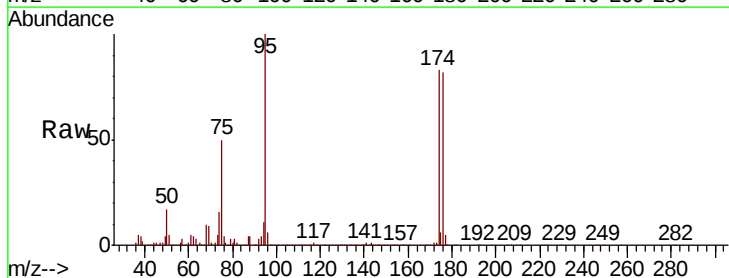
Tgt Ion: 75 Resp: 236069

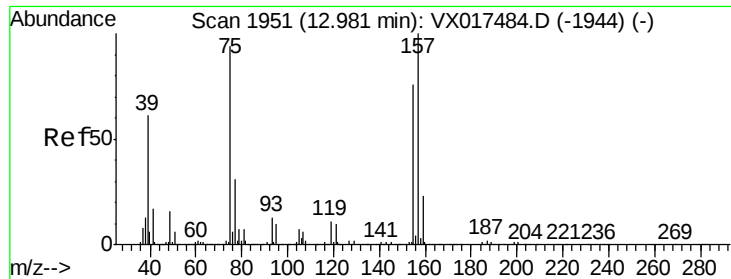
Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

89 0.0 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.608 ug/l

RT: 13.12 min Scan# 1974

Delta R.T. 0.14 min

Lab File: VX017651.D

Acq: 28 Jul 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 100

Ion Ratio Lower Upper

75 100

155 56.0 42.3 126.8

157 68.0 54.3 162.9

