

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072920\
 Data File : VX017670.D
 Acq On : 29 Jul 2020 14:44
 Operator : JC/SP
 Sample : L3489-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

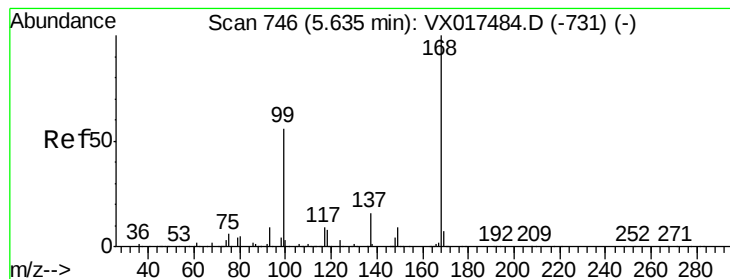
Quant Time: Jul 30 04:36:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	495835	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	824255	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	858143	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	431681	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	341442	53.61	ug/l	0.00
Spiked Amount			Recovery	=	107.22%	
35) Dibromofluoromethane	5.47	113	282720	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
50) Toluene-d8	8.70	98	1007206	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
62) 4-Bromofluorobenzene	11.12	95	422300	53.06	ug/l	0.00
Spiked Amount			Recovery	=	106.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	410	Below Cal	#	42
3) Chloromethane	1.32	50	1989	0.689	ug/l #	77
5) Bromomethane	1.64	94	1133	Below Cal		87
6) Chloroethane	1.72	64	370	Below Cal	#	55
8) Diethyl Ether	2.17	74	1316	Below Cal		77
10) Methyl Iodide	2.50	142	2391	0.347	ug/l #	79
11) Tert butyl alcohol	3.01	59	1158	0.863	ug/l #	73
13) Acrolein	2.27	56	531	4.658	ug/l #	1
16) Acetone	2.42	43	29804	10.632	ug/l	98
17) Carbon Disulfide	2.56	76	3171	0.204	ug/l #	43
18) Methyl Acetate	2.75	43	2145	0.325	ug/l #	79
20) Methylene Chloride	2.84	84	34391	5.368	ug/l	95
25) 2-Butanone	4.65	43	4569	1.147	ug/l #	77
29) Tetrahydrofuran	5.12	42	1180	0.478	ug/l	94
36) 1,1-Dichloropropene	5.63	75	36168	4.575	ug/l #	52
38) Carbon Tetrachloride	5.63	117	48449	5.047	ug/l #	19
49) 1,4-Dioxane	7.70	88	140	1.032	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2740	0.322	ug/l #	72
76) 1,2,3-Trichloropropane	11.12	75	217281	24.469	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	217281	61.656	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.01	75	555	2.778	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

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Acq: 29 Jul 2020 14:44

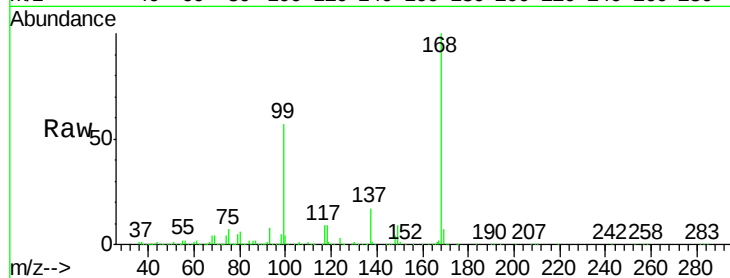
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 495835

Ion Ratio Lower Upper

168 100

99 56.6 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

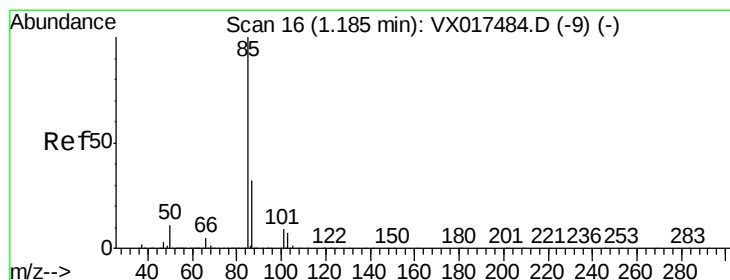
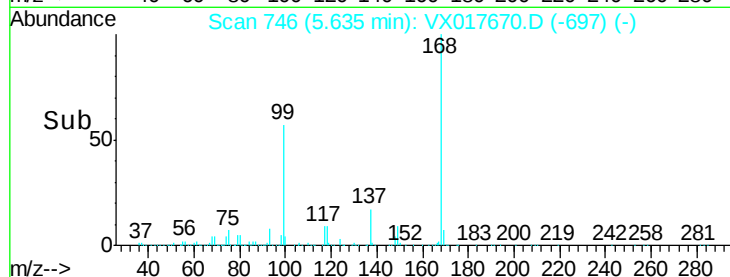
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017670.D

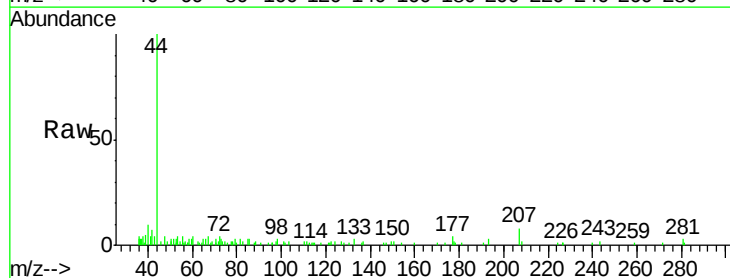
Acq: 29 Jul 2020 14:44

Tgt Ion: 85 Resp: 410

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

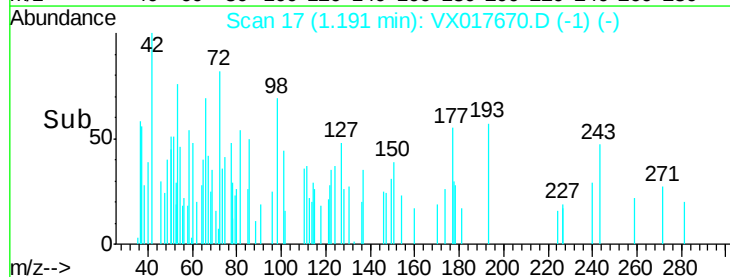
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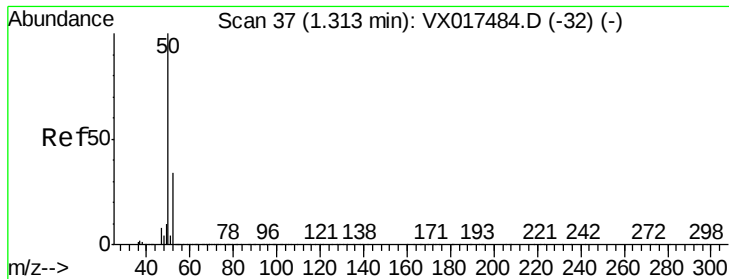
200

100

0

Time-->





#3

Chloromethane

Concen: 0.689 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

Instrument :

MSVOA_X

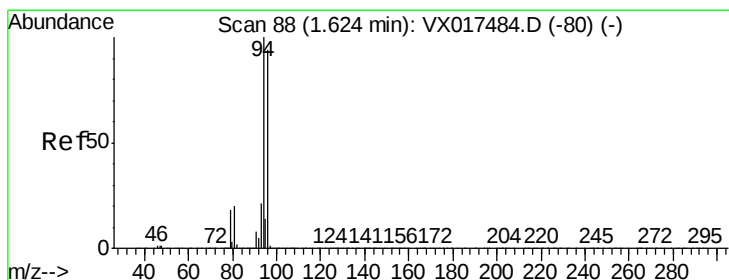
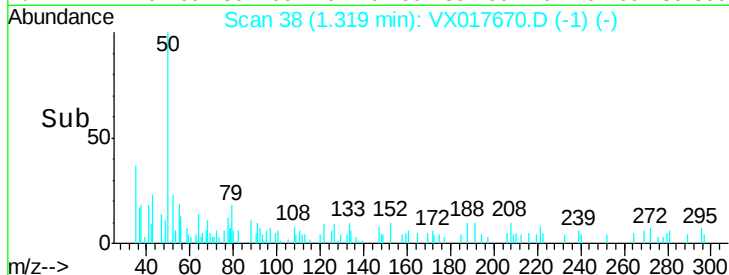
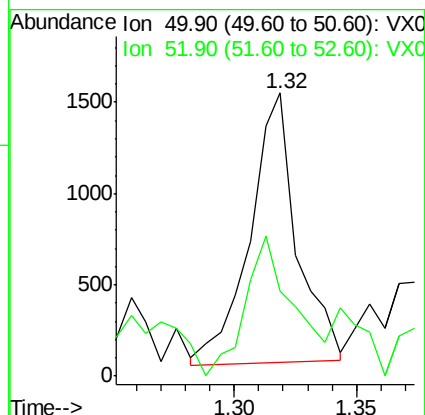
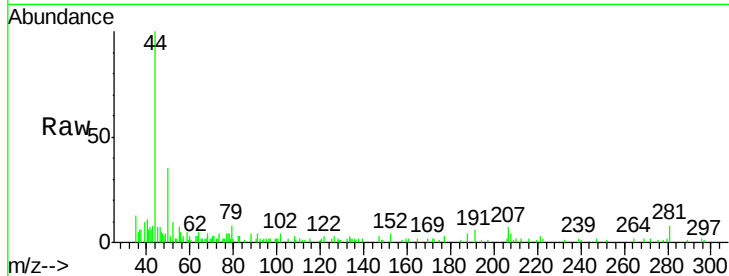
ClientSampled :

Tot Ion: 50 Resp: 1989

Ion Ratio Lower Upper

50 100

52 19.7 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017670.D

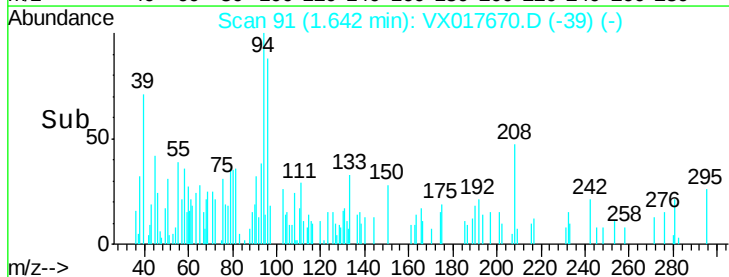
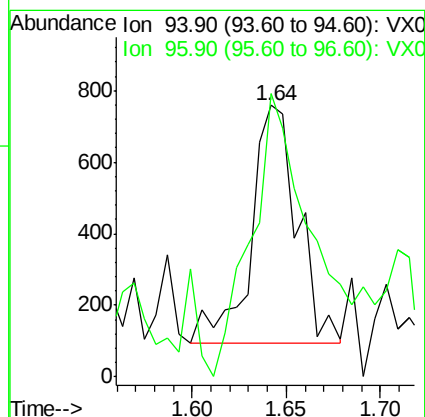
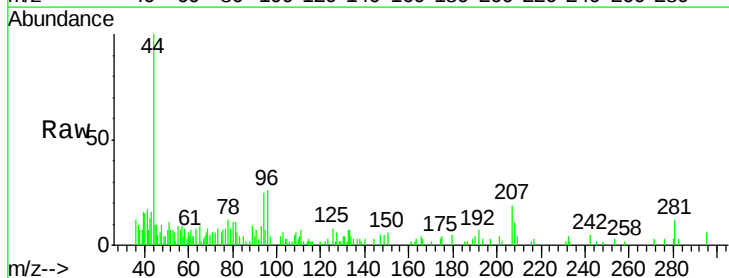
Acq: 29 Jul 2020 14:44

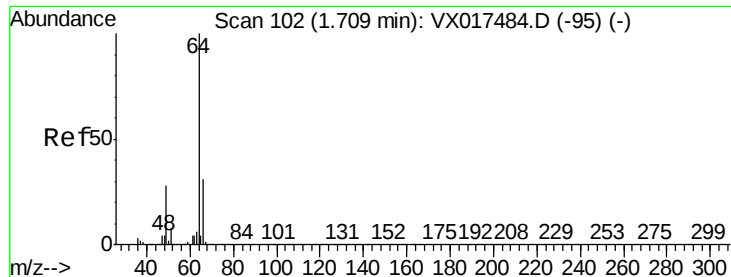
Tgt Ion: 94 Resp: 1133

Ion Ratio Lower Upper

94 100

96 80.3 74.1 111.1





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

Instrument :

MSVOA_X

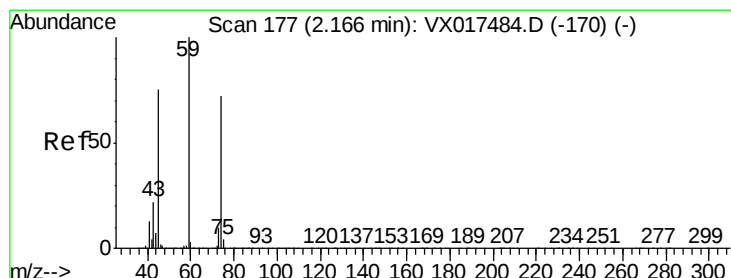
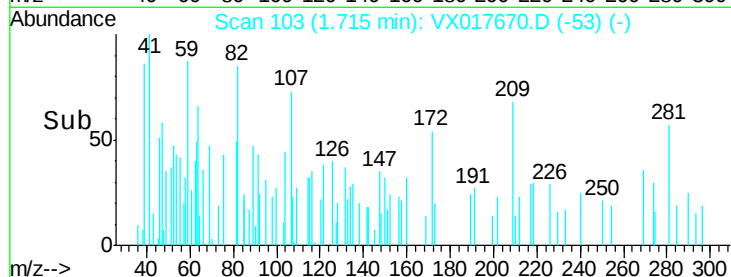
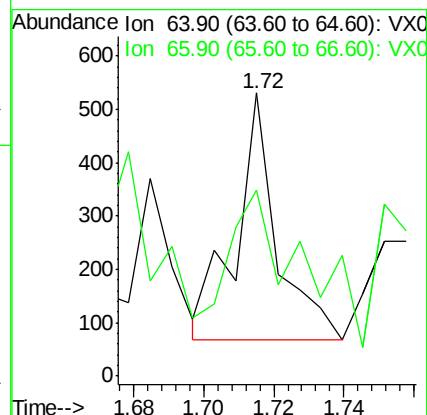
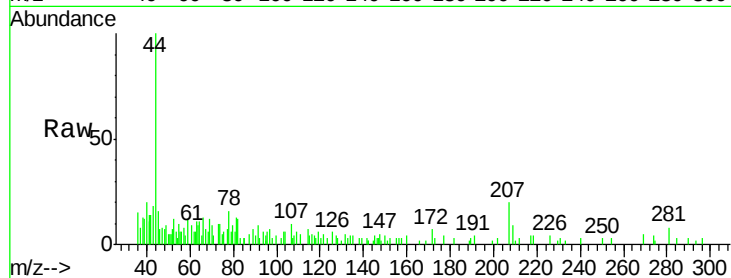
ClientSampled :

Tot Ion: 64 Resp: 370

Ion Ratio Lower Upper

64 100

66 56.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017670.D

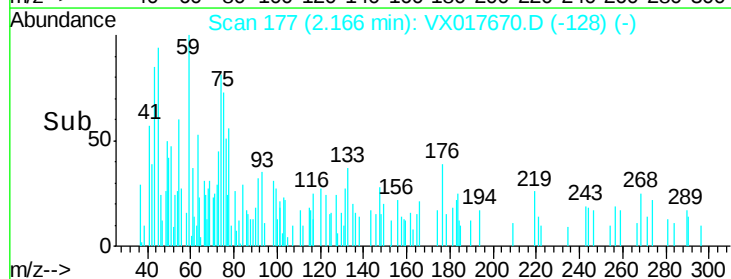
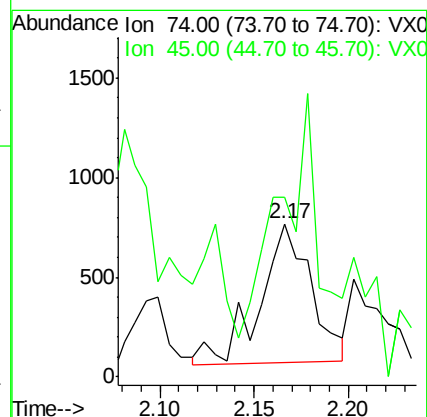
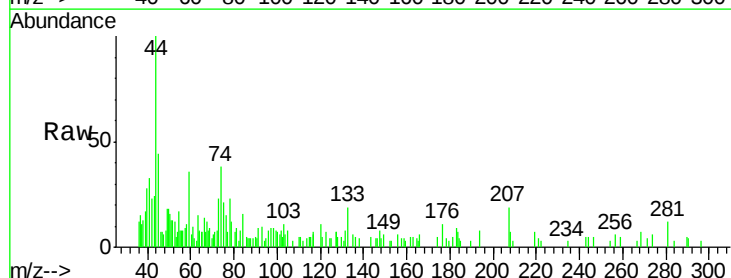
Acq: 29 Jul 2020 14:44

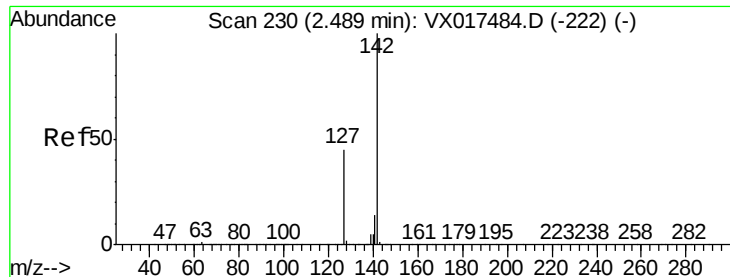
Tgt Ion: 74 Resp: 1316

Ion Ratio Lower Upper

74 100

45 125.0 50.8 152.5

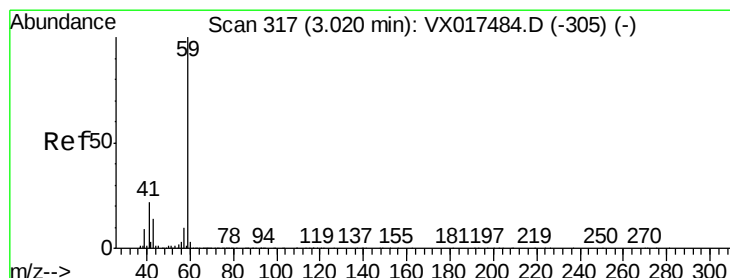
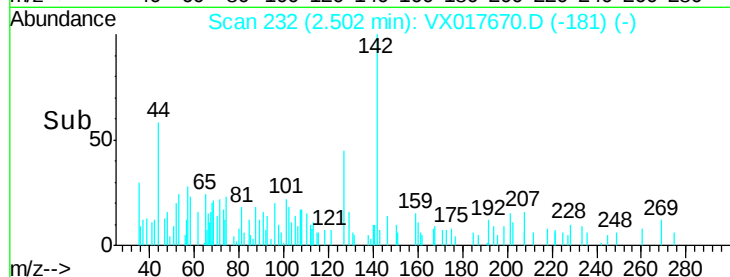
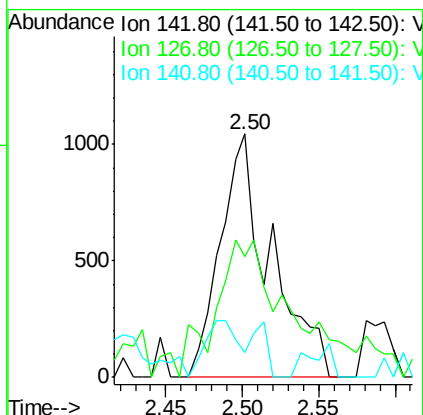
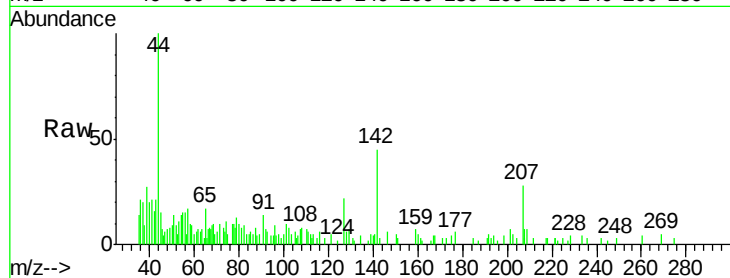




#10
Methvl Iodide
Concen: 0.347 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

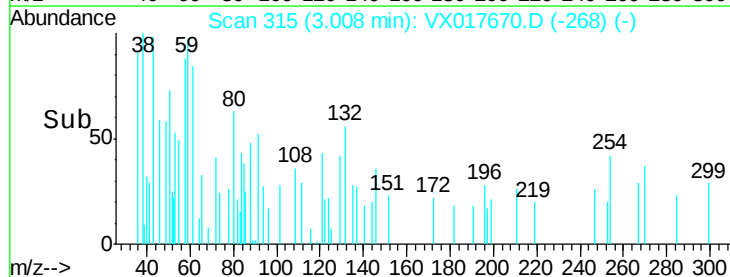
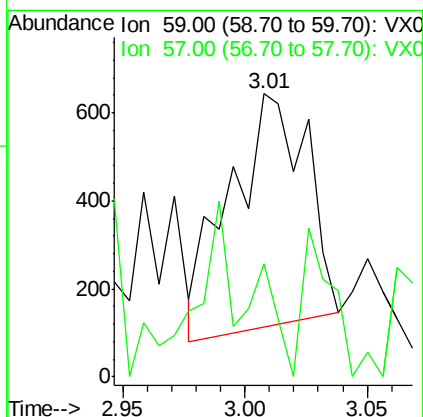
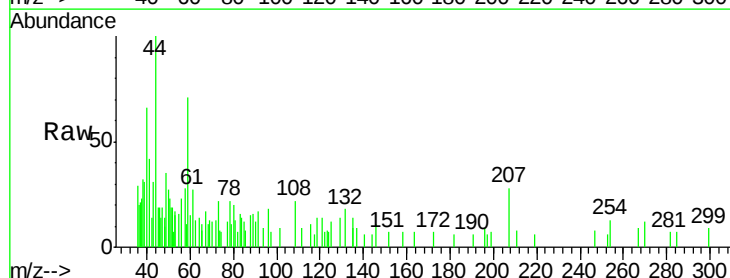
Instrument :
MSVOA_X
ClientSampleId :

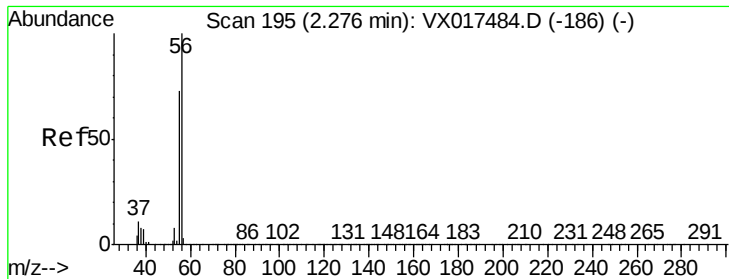
Tot Ion:142 Resp: 2391
Ion Ratio Lower Upper
142 100
127 59.0 35.9 53.9#
141 6.5 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.863 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

Tgt Ion: 59 Resp: 1158
Ion Ratio Lower Upper
59 100
57 20.7 8.6 12.8#





#13

Acrolein

Concen: 4.658 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

Instrument :

MSVOA_X

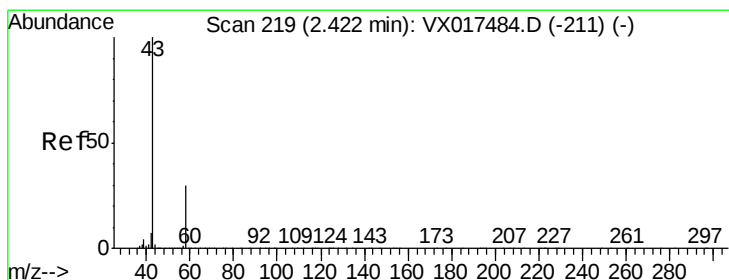
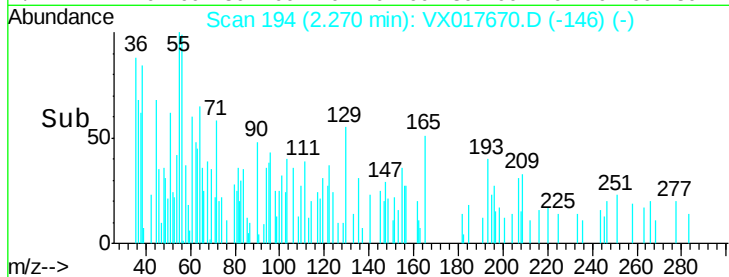
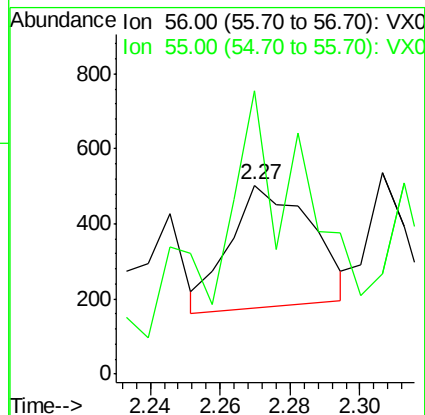
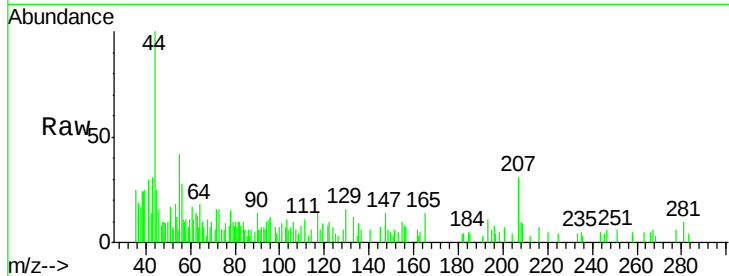
ClientSampleId :

Tot Ion: 56 Resp: 531

Ion Ratio Lower Upper

56 100

55 209.6 57.4 86.2#



#16

Acetone

Concen: 10.632 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017670.D

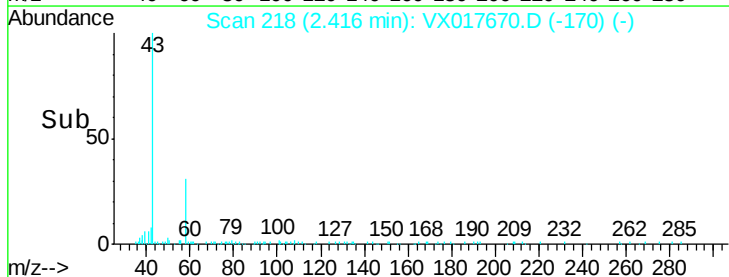
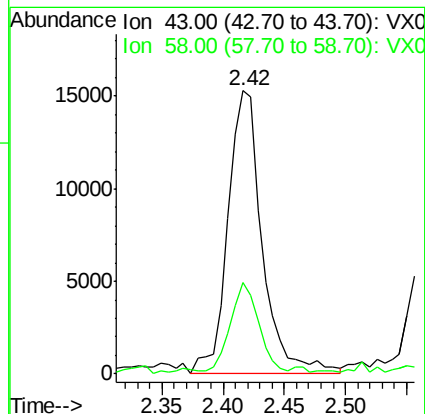
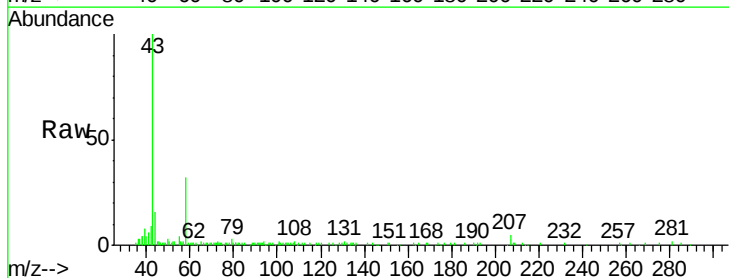
Acq: 29 Jul 2020 14:44

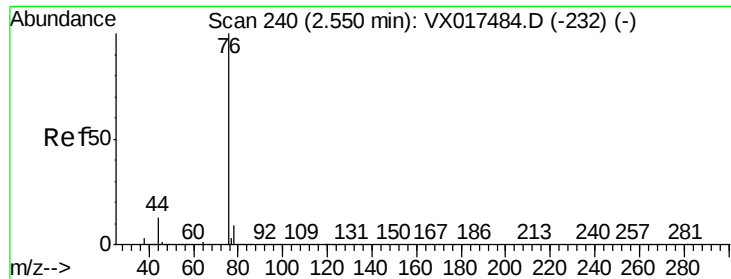
Tgt Ion: 43 Resp: 29804

Ion Ratio Lower Upper

43 100

58 31.5 24.2 36.4





#17

Carbon Disulfide

Concen: 0.204 ug/l

RT: 2.56 min Scan# 242

Delta R.T. 0.01 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

Instrument :

MSVOA_X

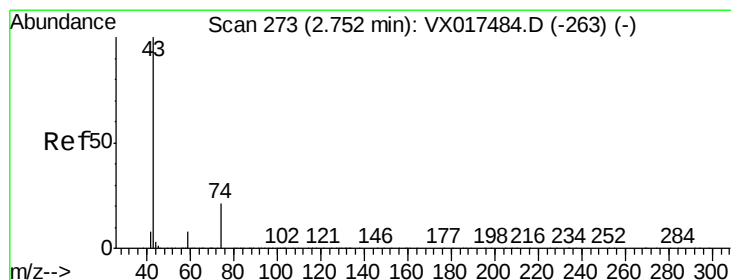
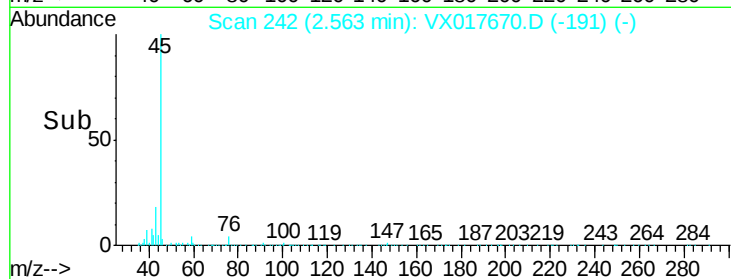
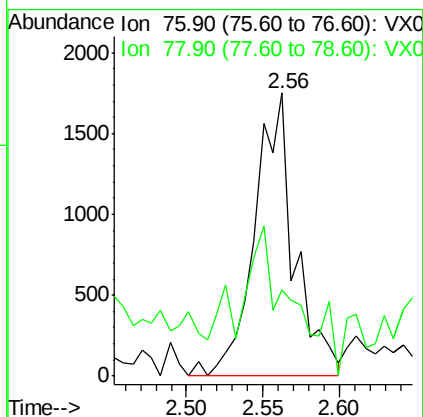
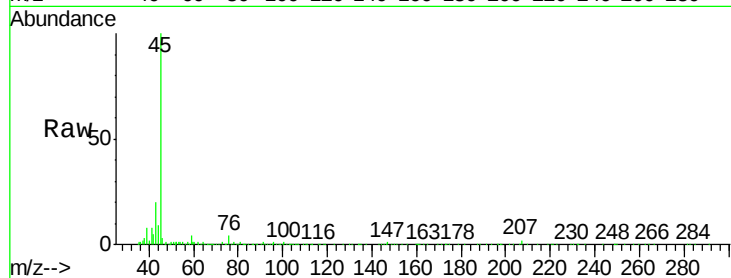
ClientSampleId :

Tot Ion: 76 Resp: 3171

Ion Ratio Lower Upper

76 100

78 30.3 7.5 11.3#



#18

Methyl Acetate

Concen: 0.325 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX017670.D

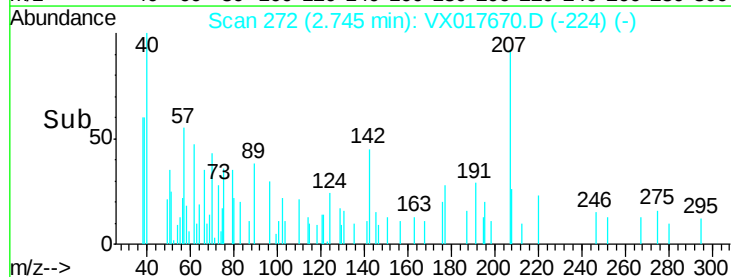
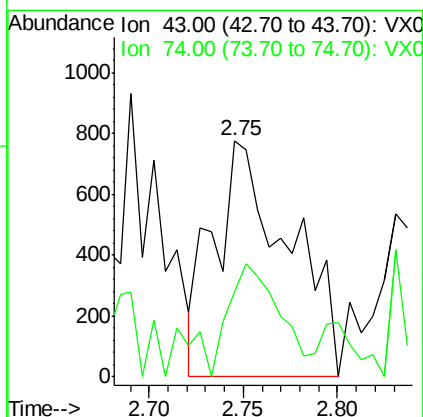
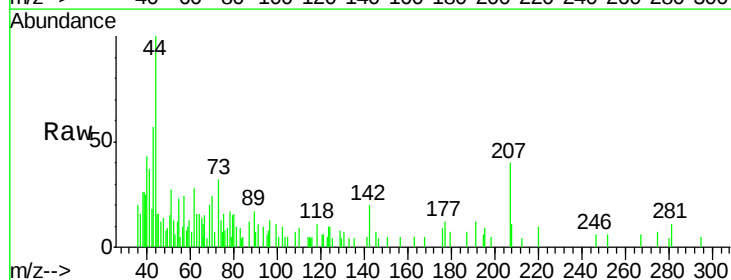
Acq: 29 Jul 2020 14:44

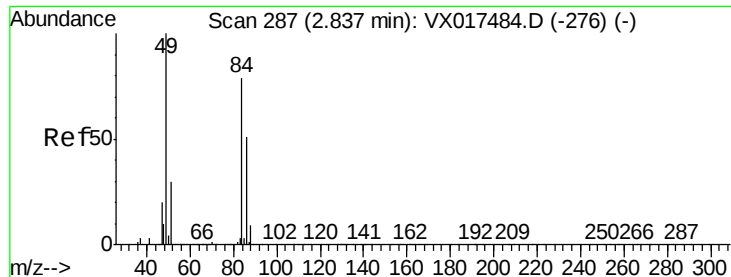
Tgt Ion: 43 Resp: 2145

Ion Ratio Lower Upper

43 100

74 32.0 17.5 26.3#

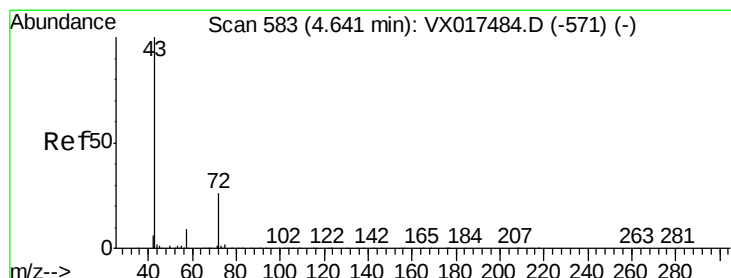
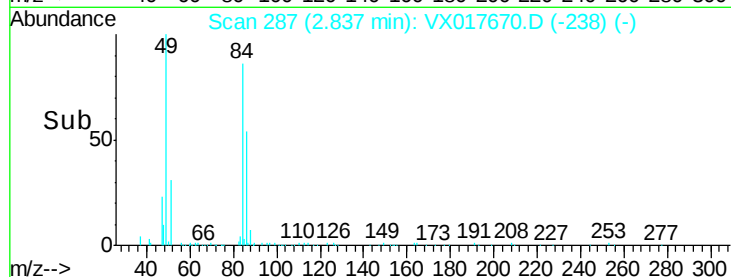
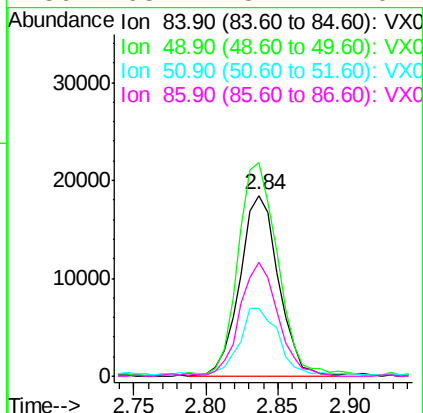
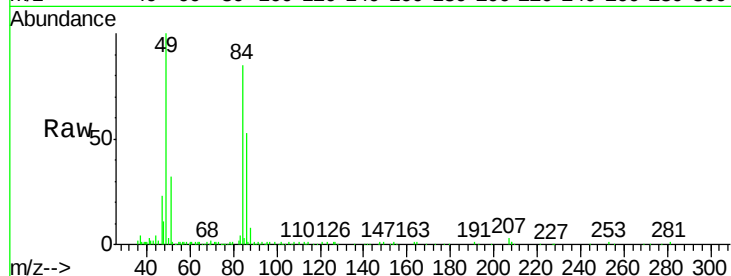




#20
Methvlene Chloride
Concen: 5.368 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

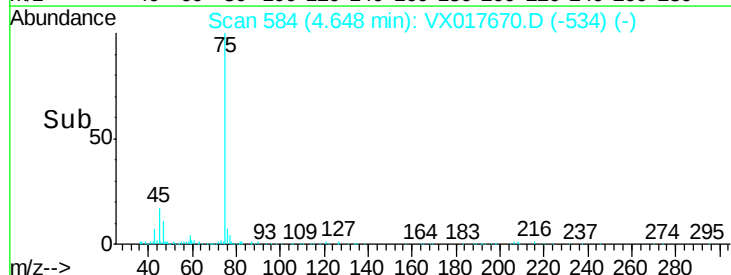
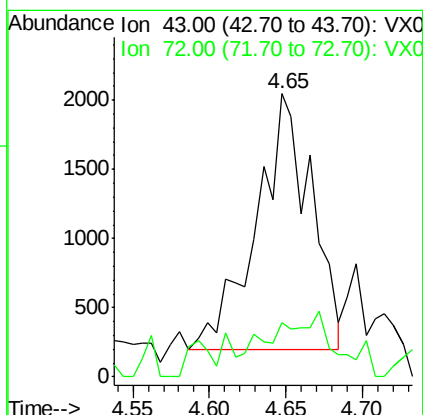
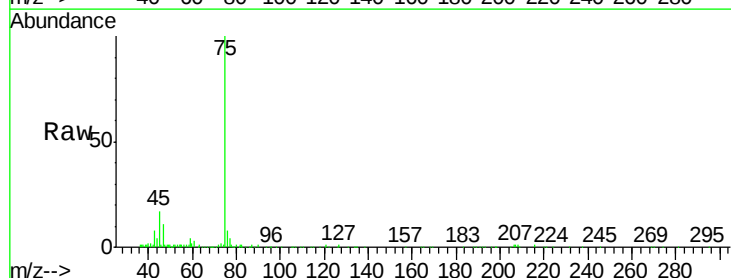
Instrument :
MSVOA_X
ClientSampleId :

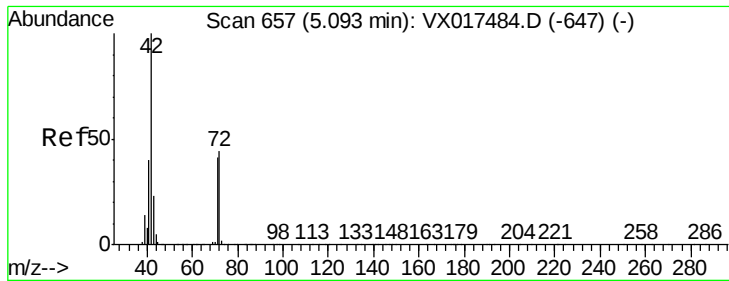
Tot Ion: 84 Resp: 34391
Ion Ratio Lower Upper
84 100
49 116.2 100.3 150.5
51 36.5 30.5 45.7
86 63.2 51.1 76.7



#25
2-Butanone
Concen: 1.147 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

Tgt Ion: 43 Resp: 4569
Ion Ratio Lower Upper
43 100
72 12.6 19.0 28.4#

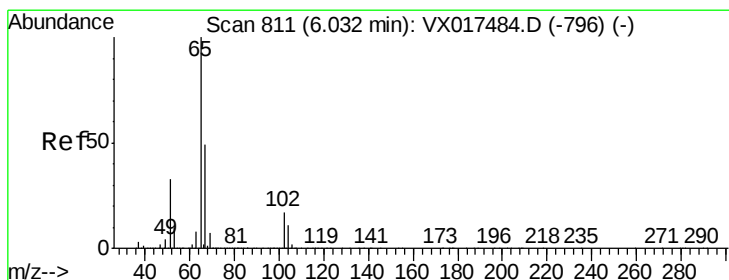
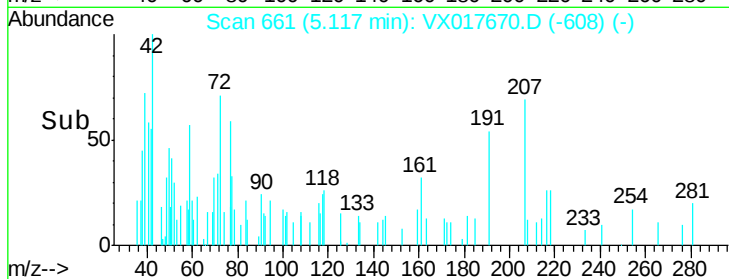
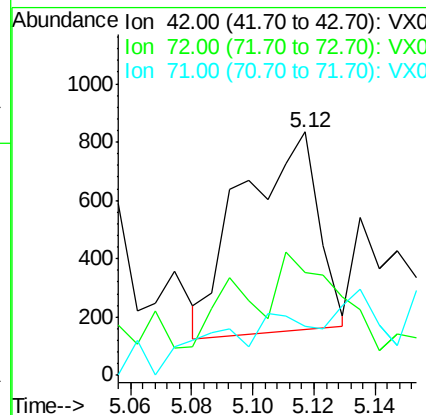
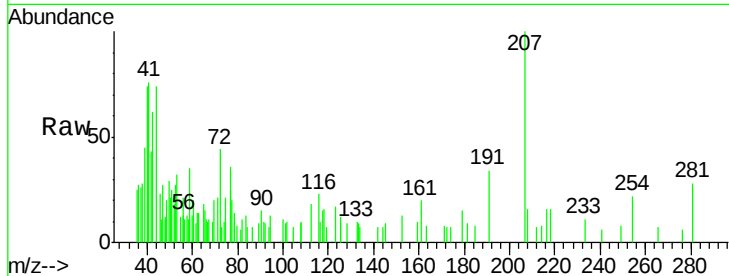




#29
Tetrahydrofuran
Concen: 0.478 ug/l
RT: 5.12 min Scan# 661
Delta R.T. 0.02 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

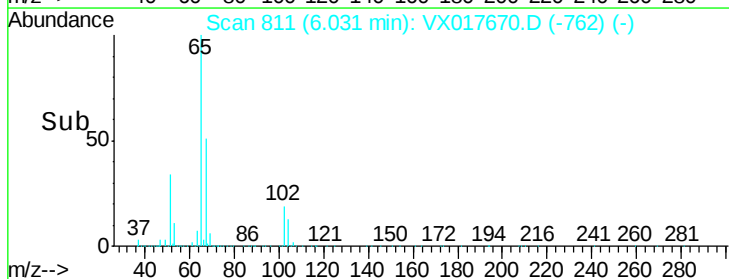
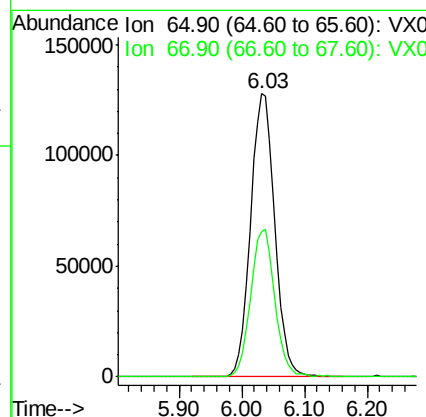
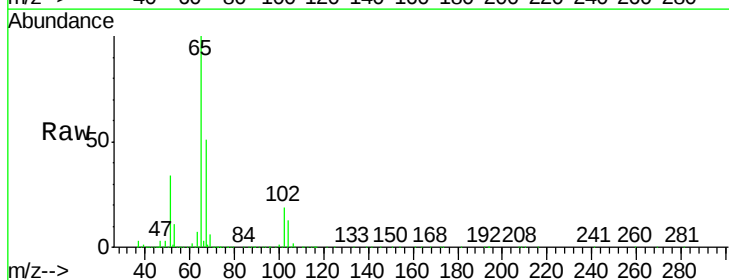
Instrument :
MSVOA_X
ClientSampled :

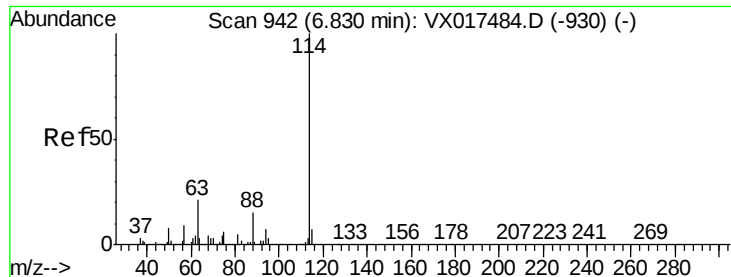
Tot Ion: 42 Resp: 1180
Ion Ratio Lower Upper
42 100
72 37.9 35.5 53.3
71 42.2 33.0 49.4



#33
1,2-Dichloroethane-d4
Concen: 53.608 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

Tgt Ion: 65 Resp: 341442
Ion Ratio Lower Upper
65 100
67 51.5 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: VX017670.D

Acq: 29 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

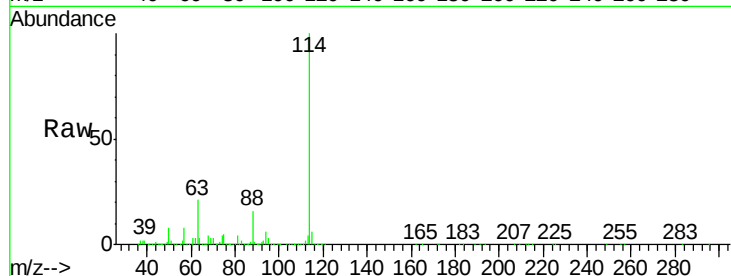
Tot Ion:114 Resp: 824255

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.6

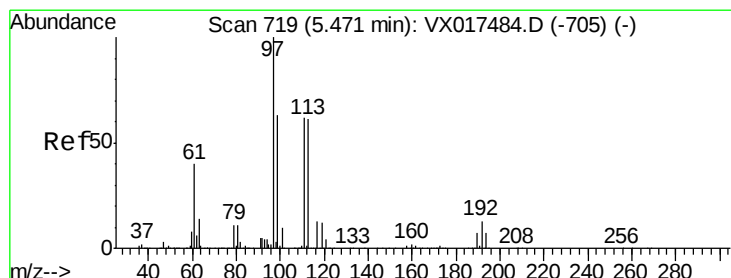
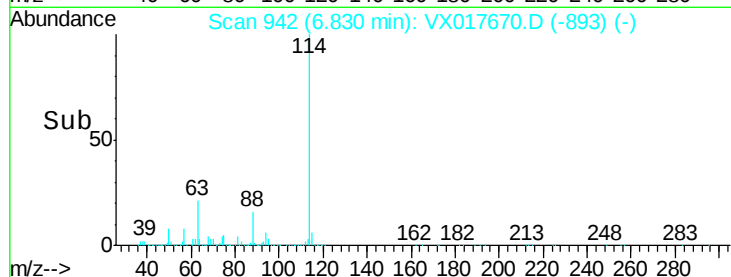
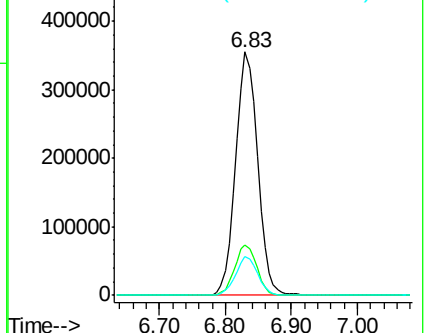
88 16.0 0.0 33.4



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: 51.286 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

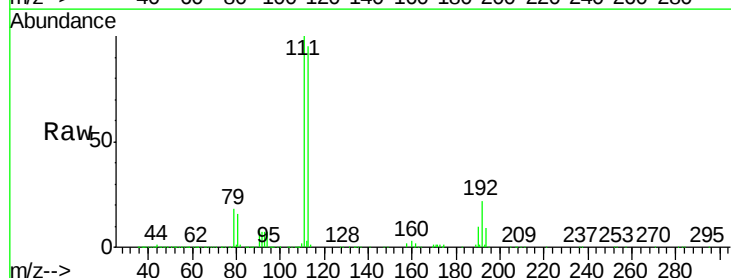
Tgt Ion:113 Resp: 282720

Ion Ratio Lower Upper

113 100

111 101.9 80.7 121.1

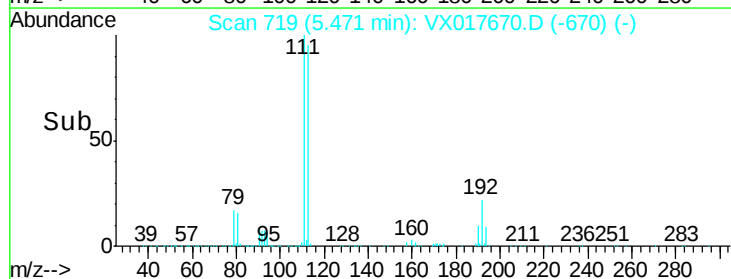
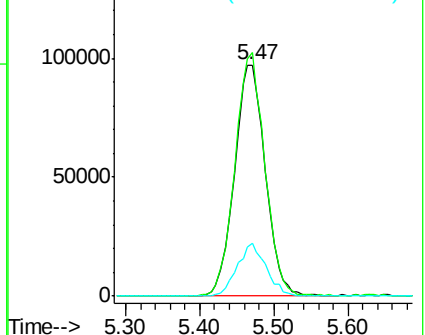
192 21.4 16.9 25.3

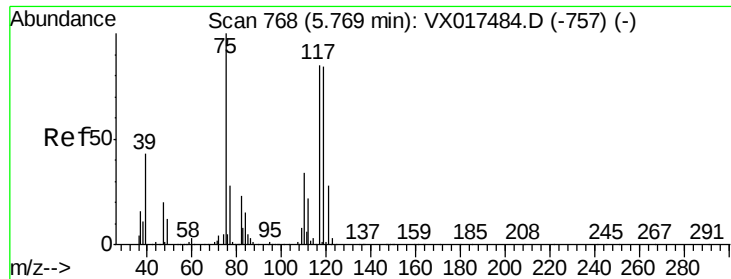


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

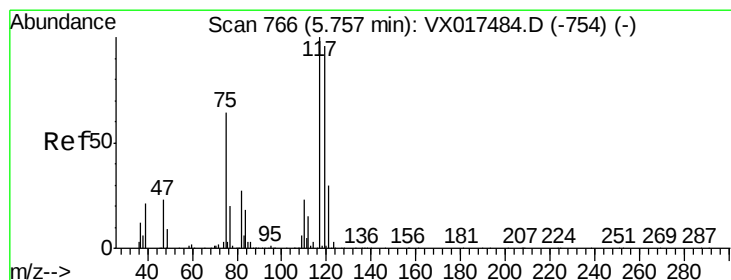
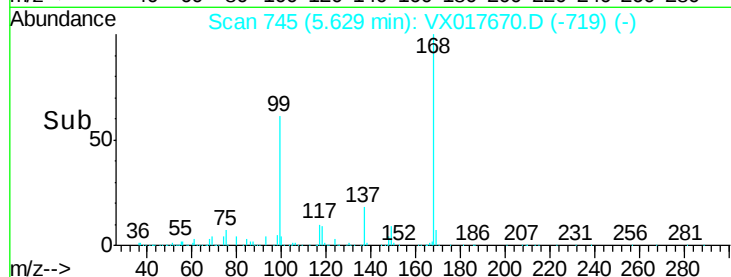
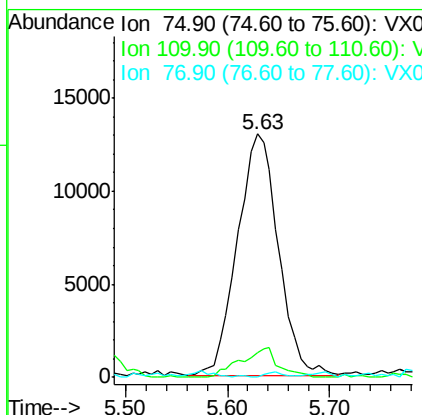
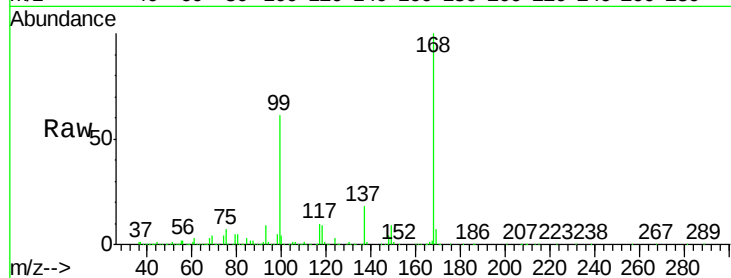




#36
 1,1-Dichloropropene
 Concen: 4.575 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017670.D
 Acq: 29 Jul 2020 14:44

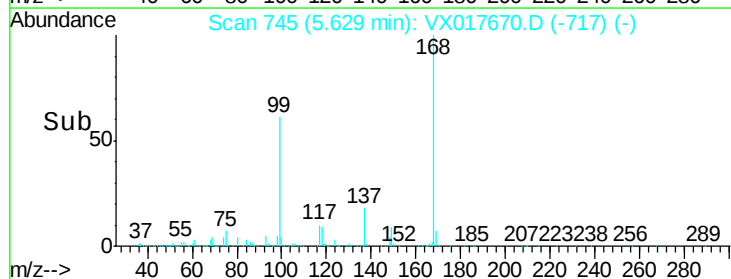
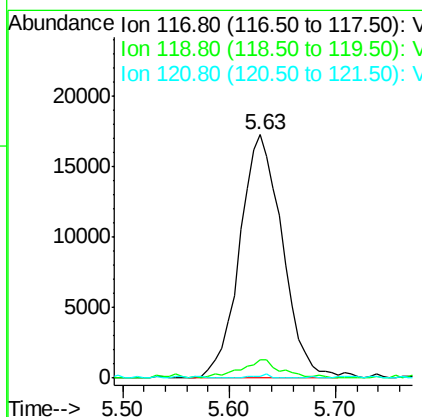
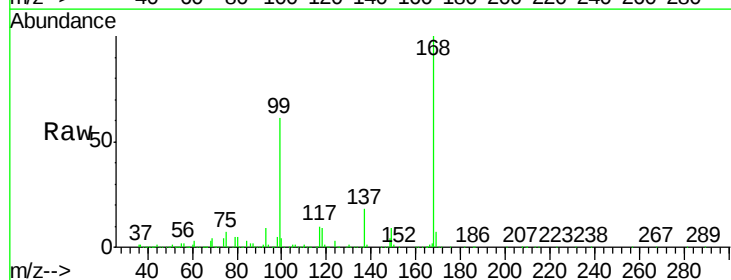
Instrument :
 MSVOA_X
 ClientSampleId :

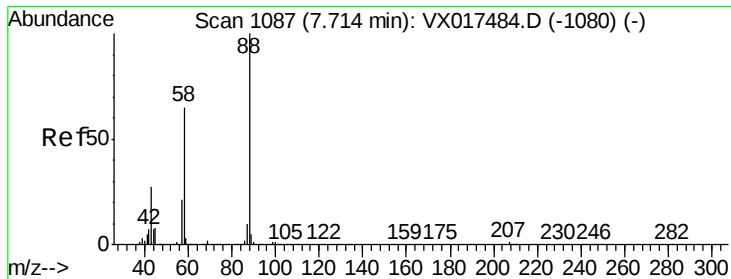
Tot Ion: 75 Resp: 36168
 Ion Ratio Lower Upper
 75 100
 110 11.4 18.1 54.3#
 77 1.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.047 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX017670.D
 Acq: 29 Jul 2020 14:44

Tgt Ion: 117 Resp: 48449
 Ion Ratio Lower Upper
 117 100
 119 7.4 75.4 113.0#
 121 0.9 24.3 36.5#

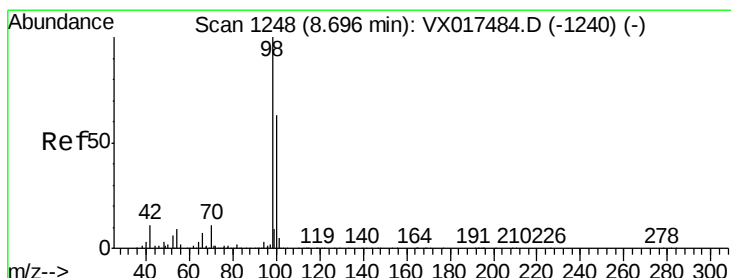
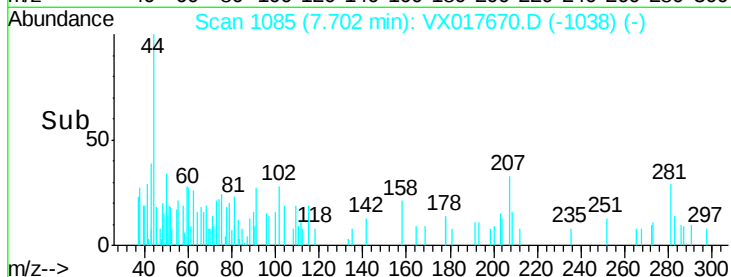
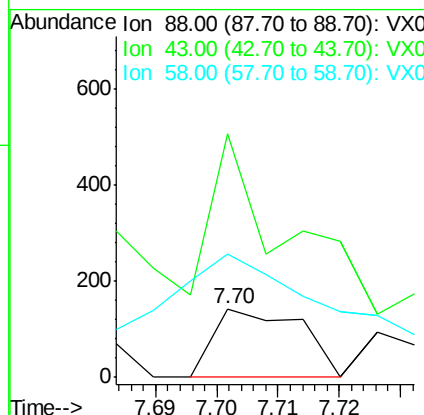
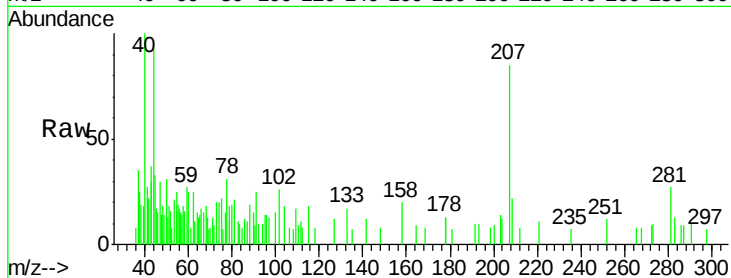




#49
1,4-Dioxane
Concen: 1.032 ug/l
RT: 7.70 min Scan# 1085
Delta R.T. -0.01 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

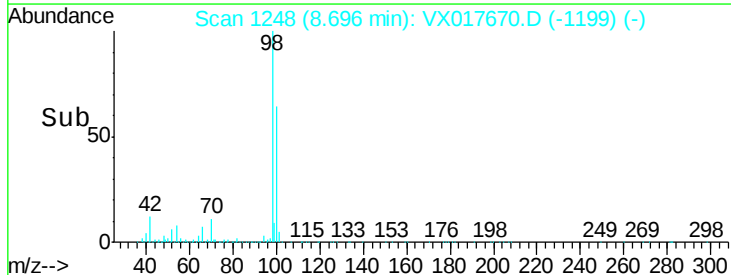
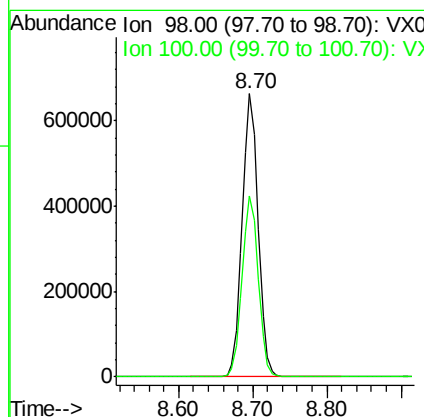
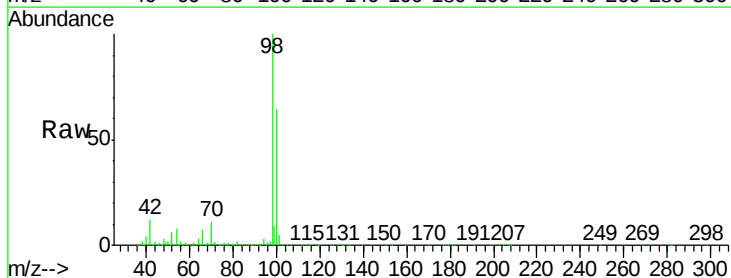
Instrument :
MSVOA_X
ClientSampleId :

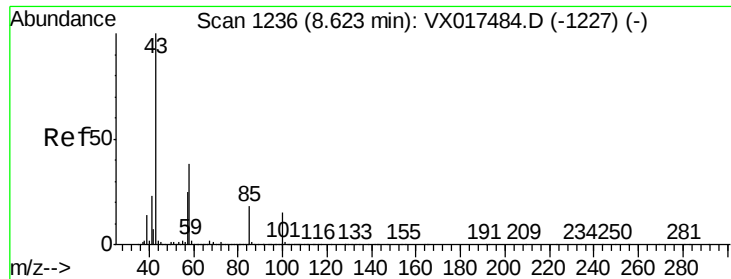
Tot Ion: 88 Resp: 140
Ion Ratio Lower Upper
88 100
43 399.3 27.8 41.6#
58 252.1 58.3 87.5#



#50
Toluene-d8
Concen: 50.647 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

Tgt Ion: 98 Resp: 1007206
Ion Ratio Lower Upper
98 100
100 64.5 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 0.322 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

Instrument :

MSVOA_X

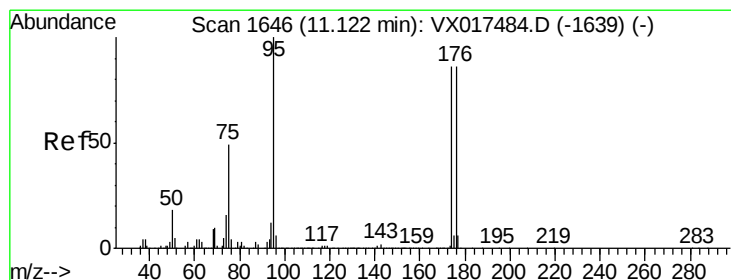
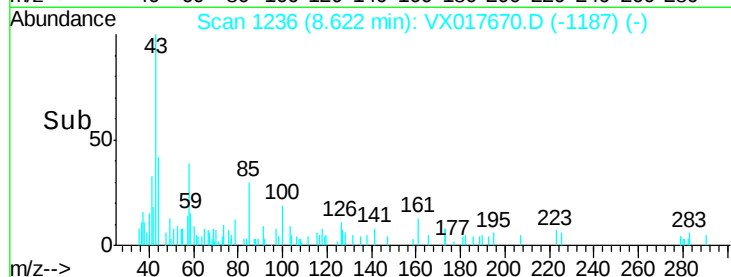
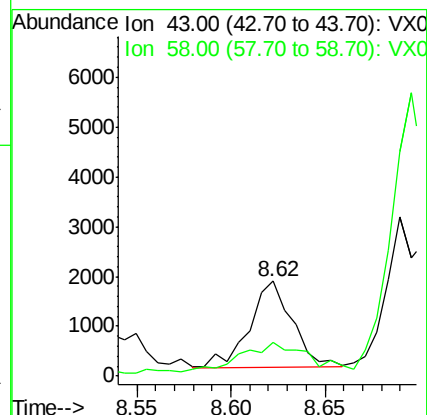
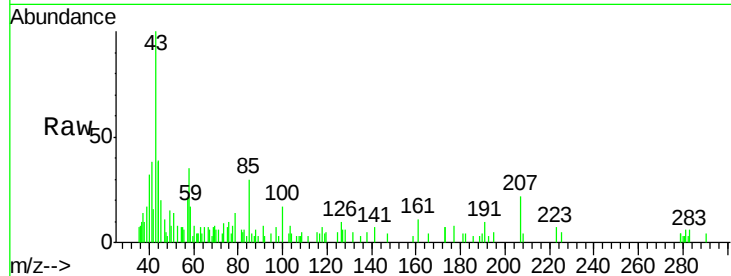
ClientSampleId :

Tot Ion: 43 Resp: 2740

Ion Ratio Lower Upper

43 100

58 55.8 31.0 46.4#



#62

4-Bromofluorobenzene

Concen: 53.061 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

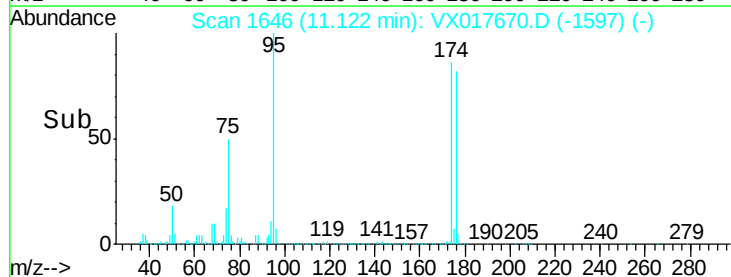
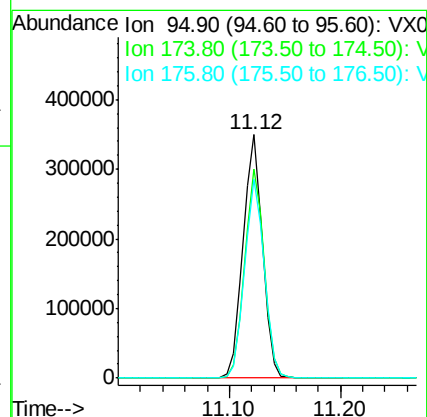
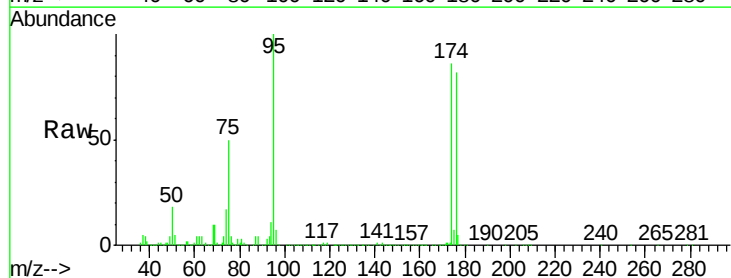
Tgt Ion: 95 Resp: 422300

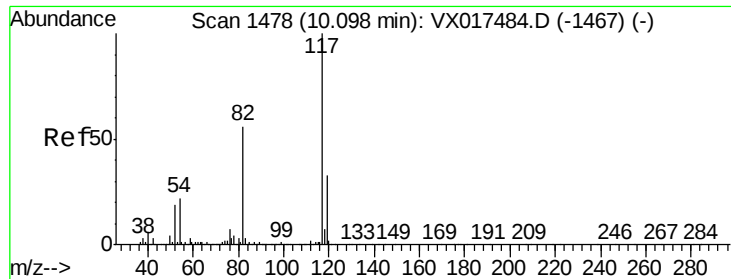
Ion Ratio Lower Upper

95 100

174 86.5 0.0 169.0

176 82.7 0.0 161.0

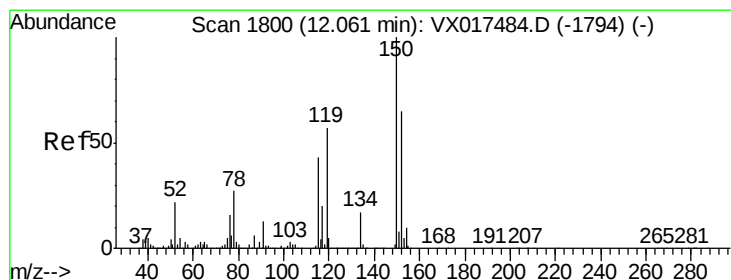
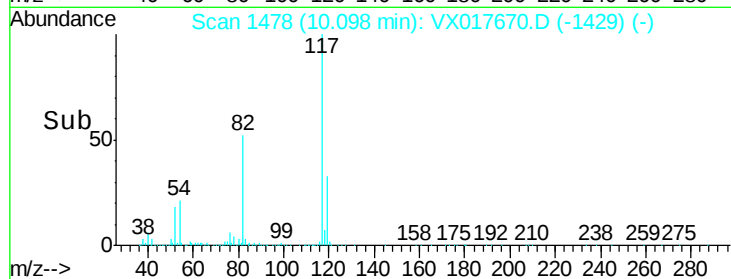
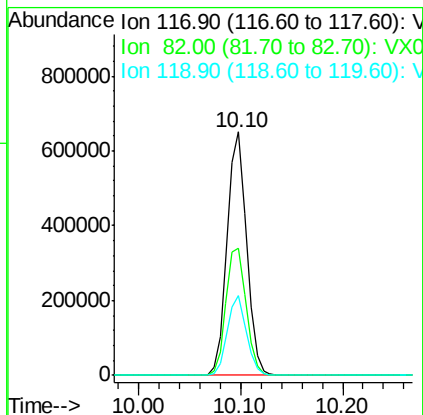
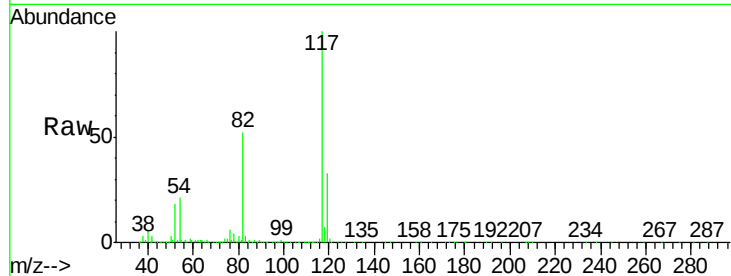




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

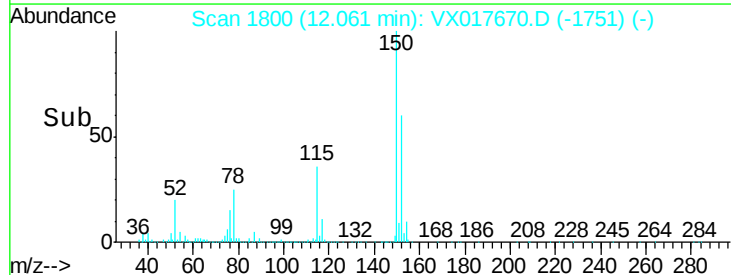
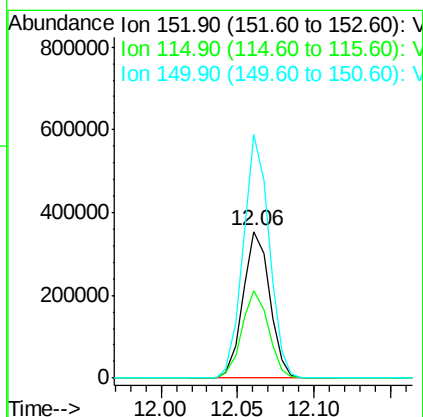
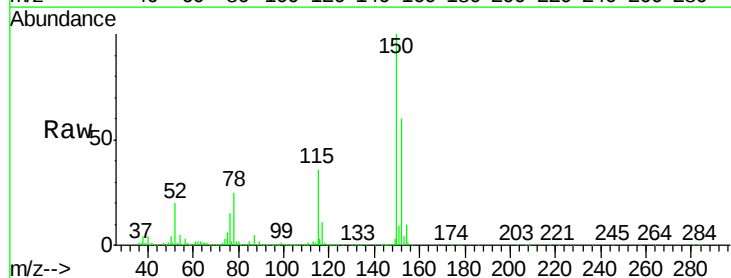
Instrument :
MSVOA_X
ClientSampleId :

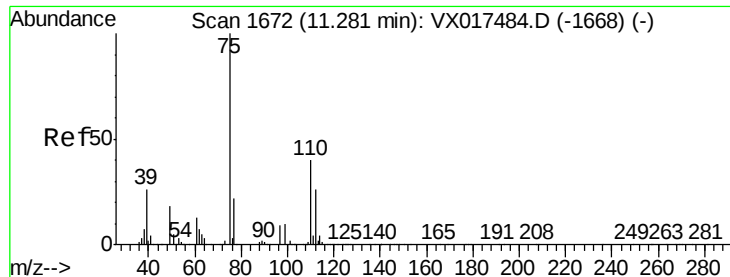
Tot Ion:117 Resp: 858143
Ion Ratio Lower Upper
117 100
82 52.2 44.0 66.0
119 32.6 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017670.D
Acq: 29 Jul 2020 14:44

Tgt Ion:152 Resp: 431681
Ion Ratio Lower Upper
152 100
115 59.1 65.5 196.6#
150 160.7 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 24.469 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

Instrument :

MSVOA_X

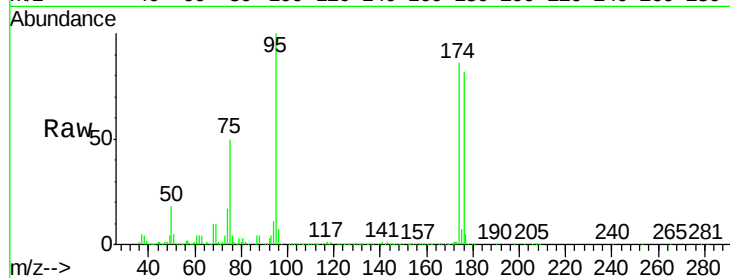
ClientSampleId :

Tot Ion: 75 Resp: 217281

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

11.12

200000

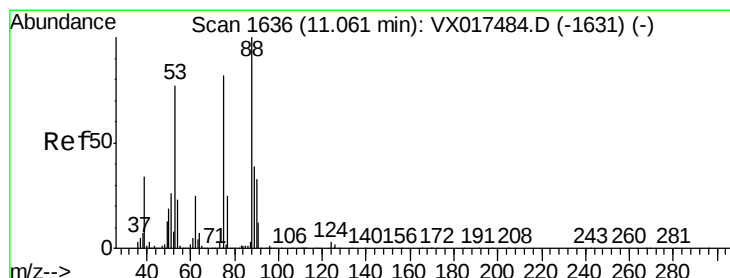
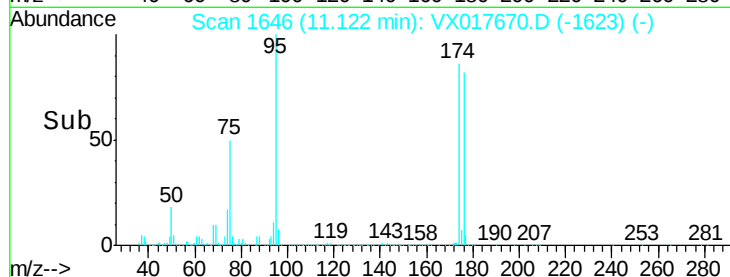
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 61.656 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

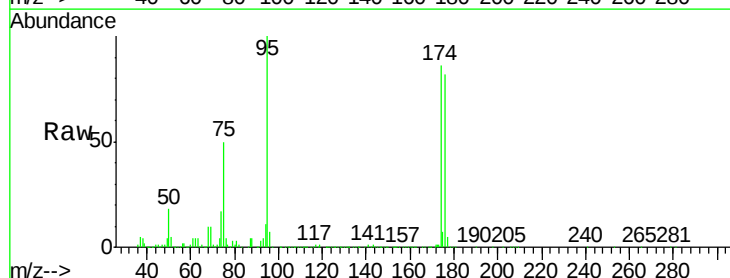
Tgt Ion: 75 Resp: 217281

Ion Ratio Lower Upper

75 100

53 0.1 75.9 113.9#

89 0.0 37.8 56.6#



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

200000

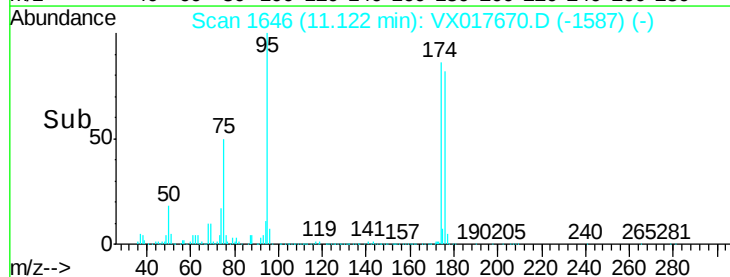
150000

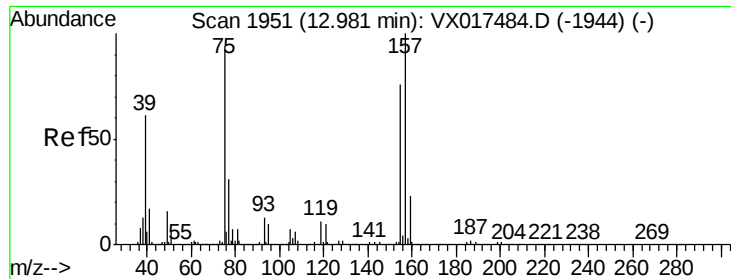
100000

50000

0

Time--> 11.00 11.10 11.20





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.778 ug/l

RT: 13.01 min Scan# 1955

Delta R.T. 0.02 min

Lab File: VX017670.D

Acq: 29 Jul 2020 14:44

Instrument :

MSVOA_X

ClientSampleId :

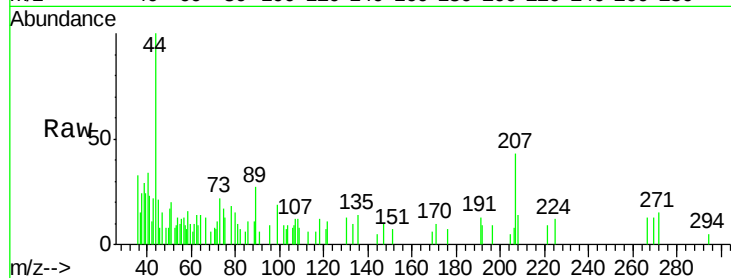
Tot Ion: 75 Resp: 555

Ion Ratio Lower Upper

75 100

155 6.1 42.3 126.8#

157 15.3 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

