

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072820\
 Data File : VX017658.D
 Acq On : 28 Jul 2020 17:12
 Operator : JC/SP
 Sample : L3421-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 29 02:29:09 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	481099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	817107	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	869558	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	473445	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	333471	53.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.92%	
35) Dibromofluoromethane	5.47	113	279455	51.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.28%	
50) Toluene-d8	8.70	98	1007610	51.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.12	95	439778	55.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.48%	

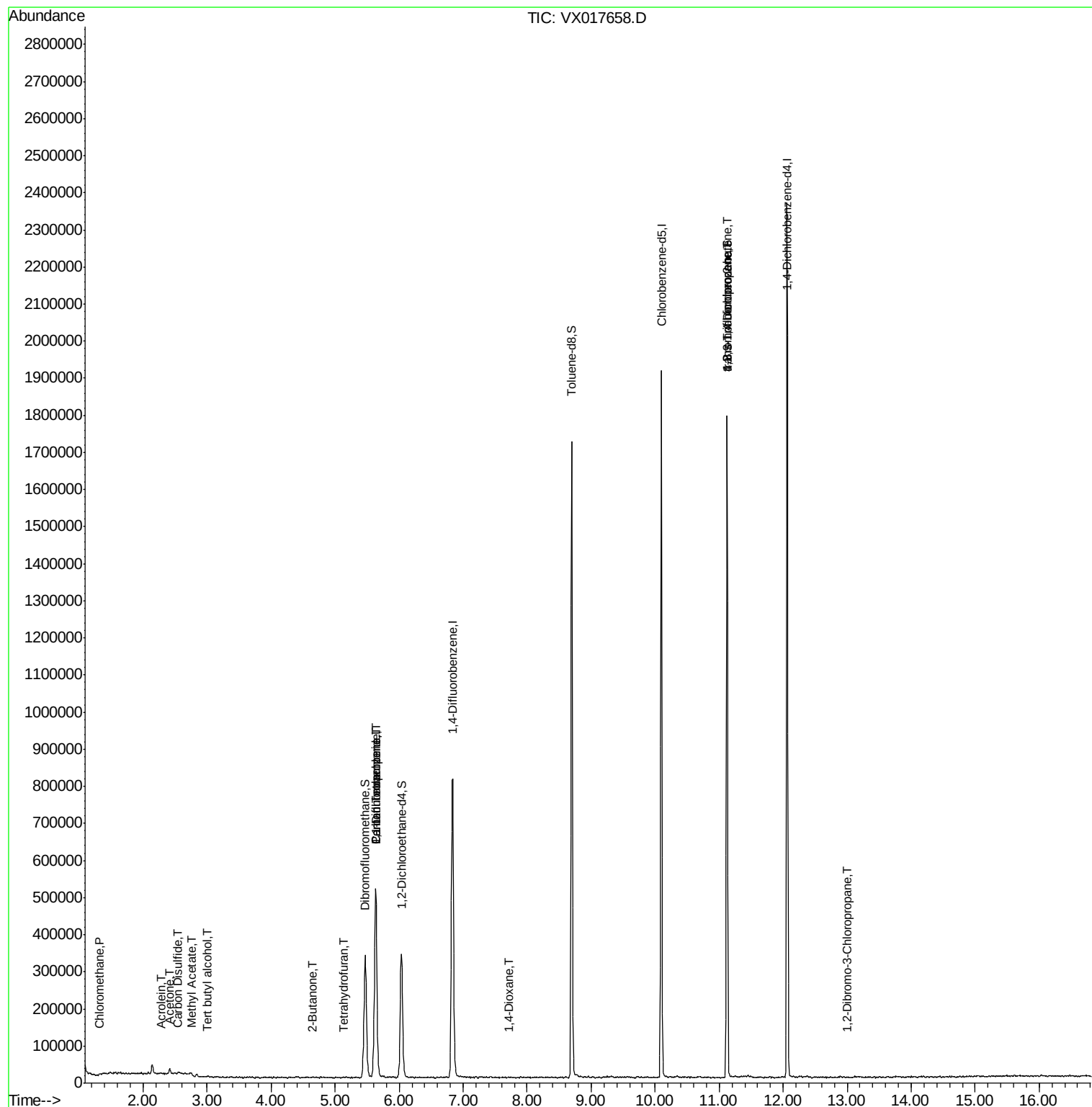
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	389	Below Cal		87
3) Chloromethane	1.31	50	1948	0.692 ug/l #		80
5) Bromomethane	1.62	94	246	Below Cal #		19
6) Chloroethane	1.72	64	83	Below Cal		97
8) Diethyl Ether	2.27	74	558	Below Cal		82
11) Tert butyl alcohol	3.01	59	2930	2.250 ug/l #		92
13) Acrolein	2.28	56	436	4.580 ug/l #		14
16) Acetone	2.42	43	17073	6.277 ug/l		95
17) Carbon Disulfide	2.55	76	3053	0.202 ug/l #		78
18) Methyl Acetate	2.76	43	2167	0.338 ug/l		96
20) Methylene Chloride	2.84	84	2633	Below Cal #		57
25) 2-Butanone	4.65	43	2246	0.581 ug/l #		86
29) Tetrahydrofuran	5.12	42	1077	0.450 ug/l #		52
36) 1,1-Dichloropropene	5.64	75	36211	4.621 ug/l #		52
38) Carbon Tetrachloride	5.64	117	48191	5.064 ug/l #		18
49) 1,4-Dioxane	7.71	88	171	1.272 ug/l #		22
76) 1,2,3-Trichloropropane	11.12	75	225747	23.180 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	225747	58.408 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	198	2.642 ug/l #		1

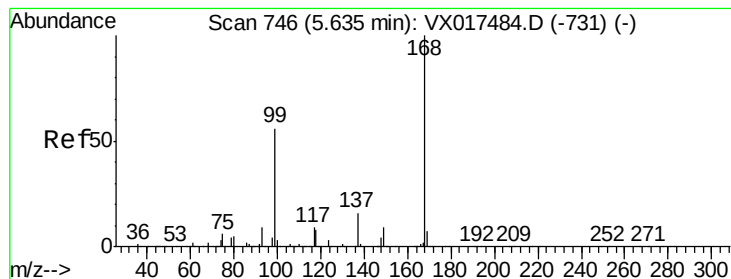
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
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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: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

Instrument :

MSVOA_X

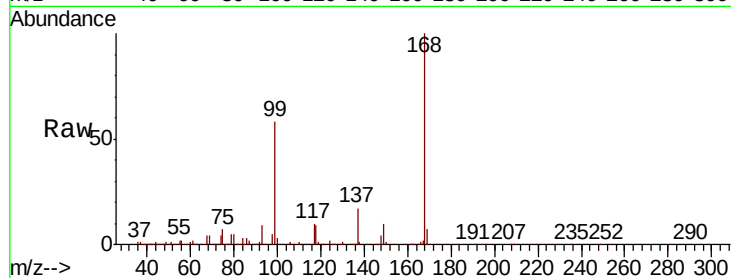
ClientSampleId :

Tot Ion:168 Resp: 481099

Ion Ratio Lower Upper

168 100

99 58.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

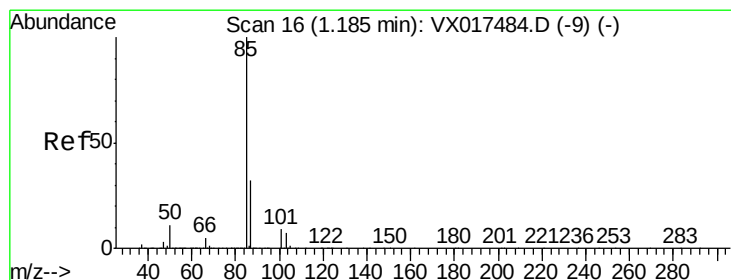
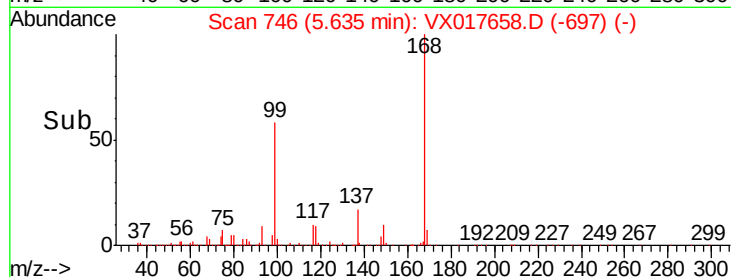
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017658.D

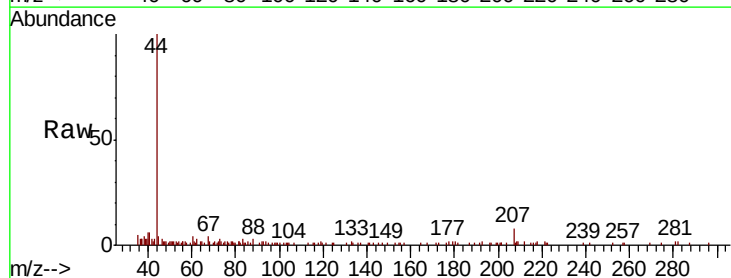
Acq: 28 Jul 2020 17:12

Tgt Ion: 85 Resp: 389

Ion Ratio Lower Upper

85 100

87 25.1 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

250

200

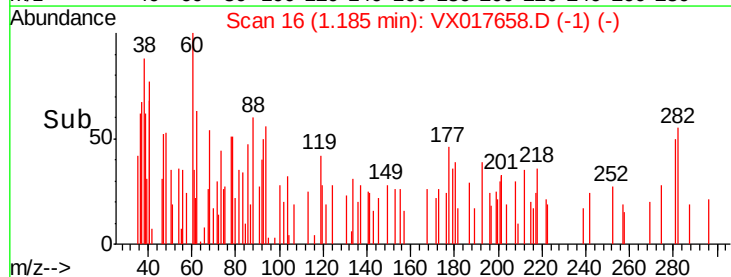
150

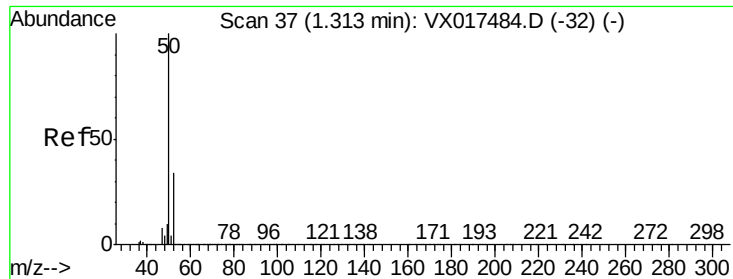
100

50

0

Time-->





#3

Chloromethane

Concen: 0.692 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

Instrument :

MSVOA_X

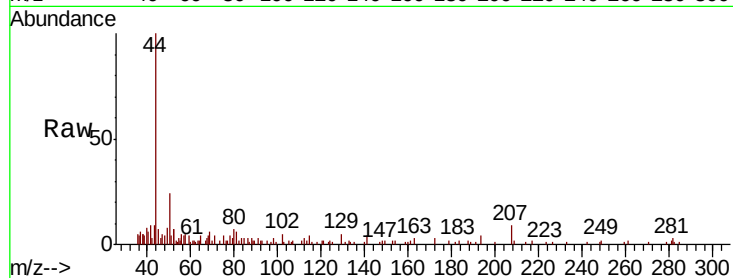
ClientSampled :

Tot Ion: 50 Resp: 1948

Ion Ratio Lower Upper

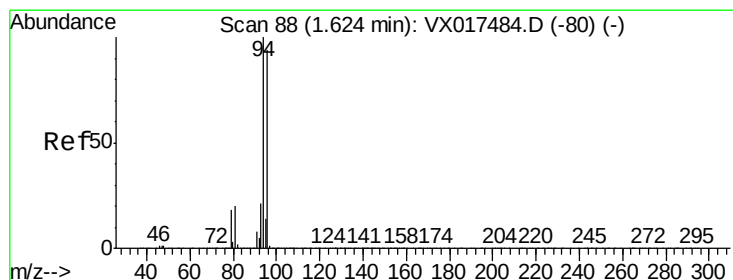
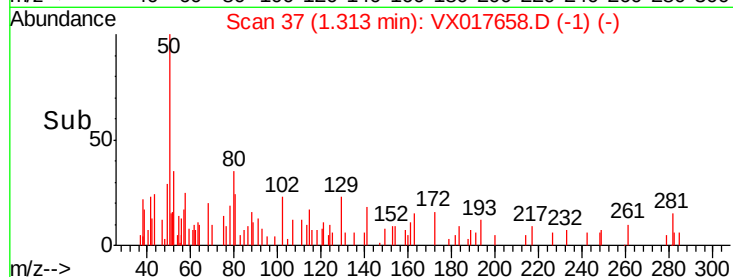
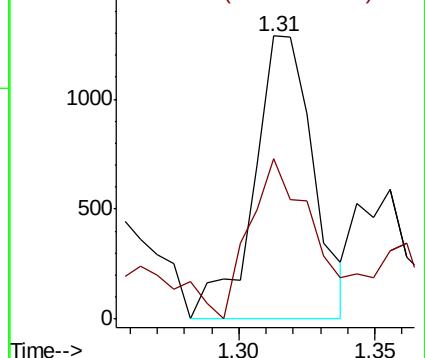
50 100

52 43.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017658.D

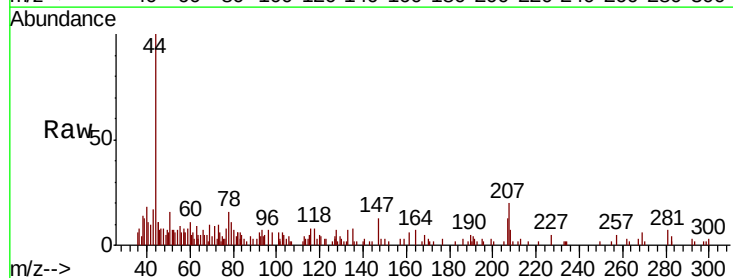
Acq: 28 Jul 2020 17:12

Tgt Ion: 94 Resp: 246

Ion Ratio Lower Upper

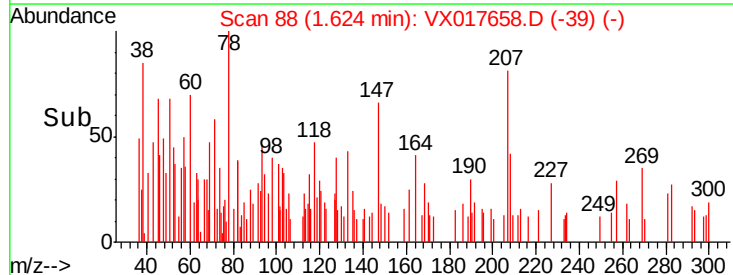
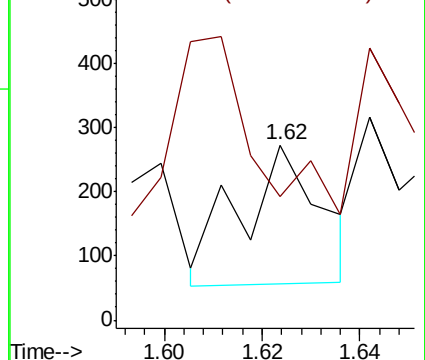
94 100

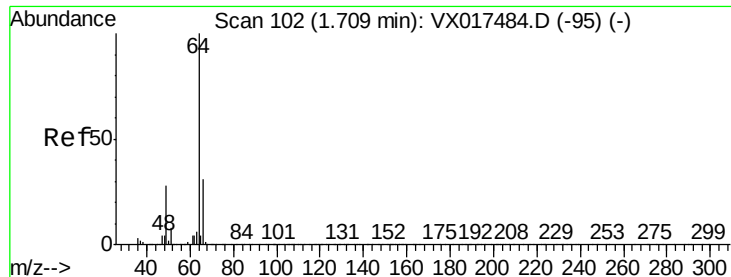
96 15.0 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

Instrument :

MSVOA_X

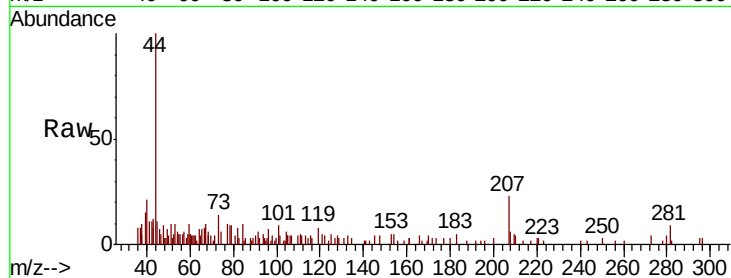
ClientSampled :

Tot Ion: 64 Resp: 83

Ion Ratio Lower Upper

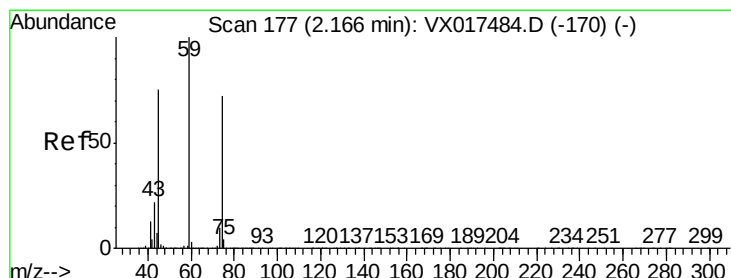
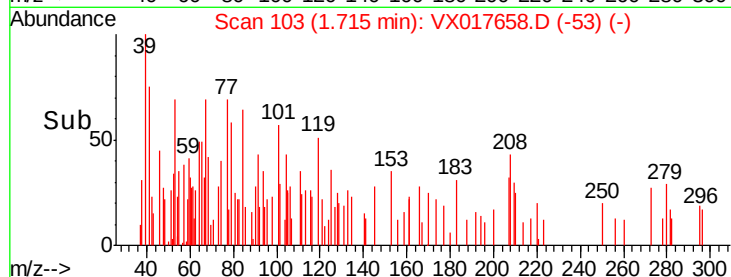
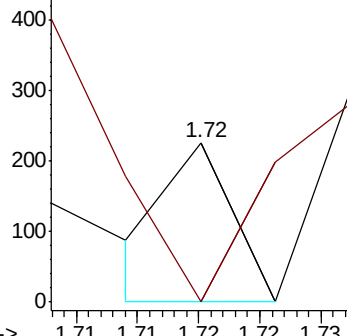
64 100

66 32.7 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: 2.27 min Scan# 194

Delta R.T. 0.10 min

Lab File: VX017658.D

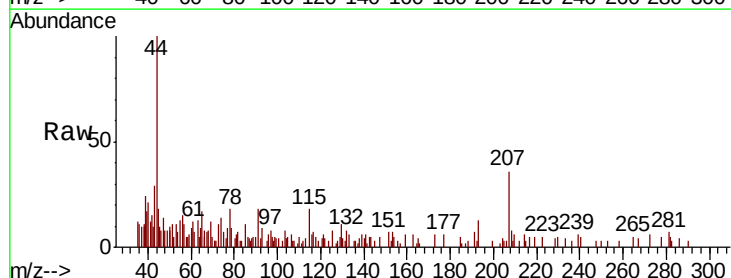
Acq: 28 Jul 2020 17:12

Tgt Ion: 74 Resp: 558

Ion Ratio Lower Upper

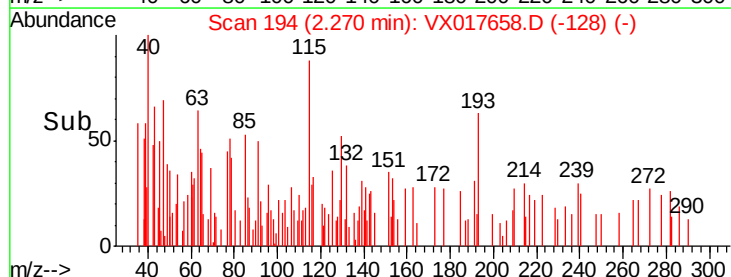
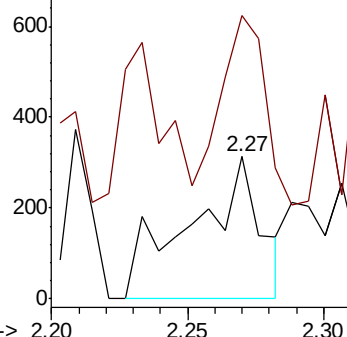
74 100

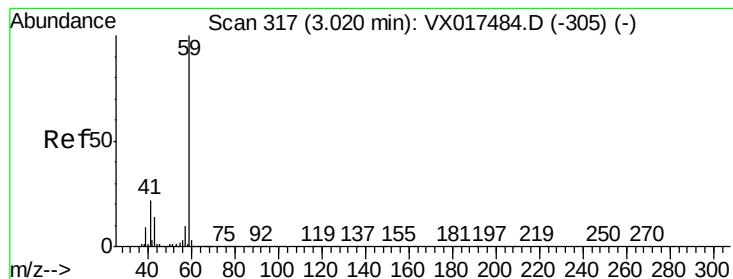
45 83.5 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



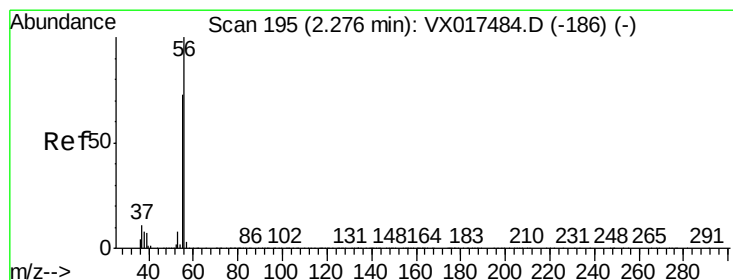
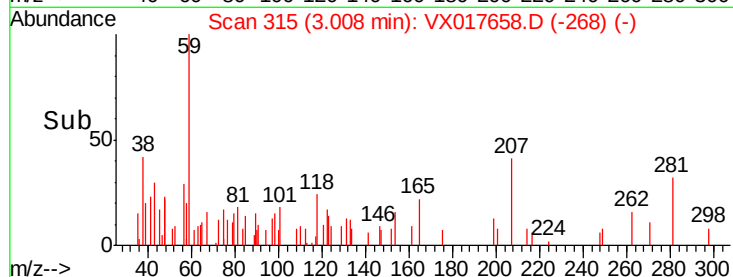
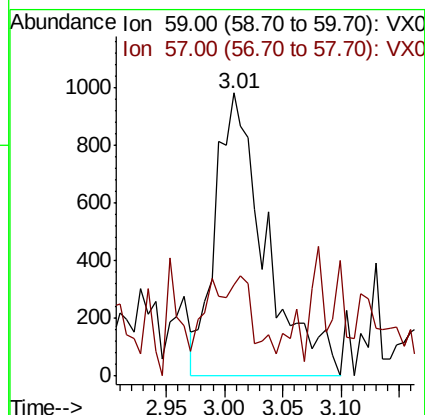
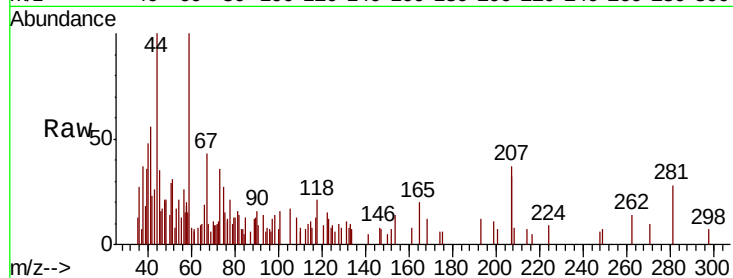


#11

Tert butyl alcohol
Concen: 2.250 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

Instrument :
MSVOA_X
ClientSampled :

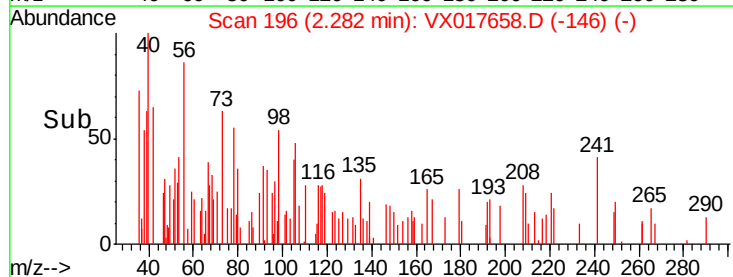
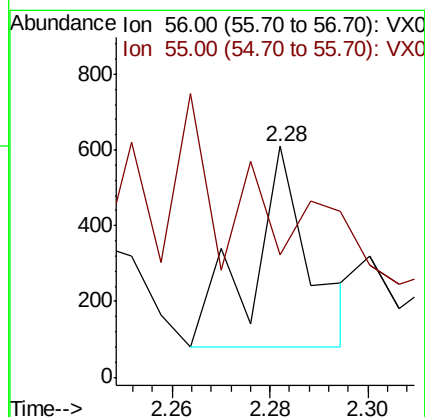
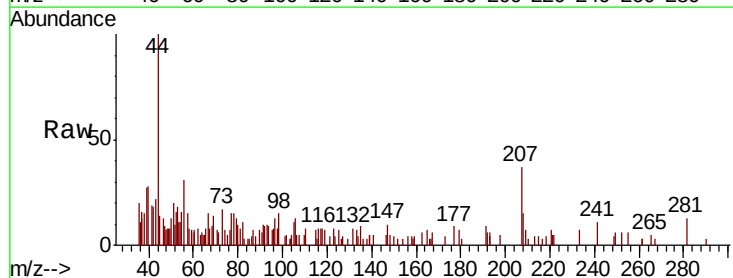
Tot Ion: 59.00 Resp: 2930
Ion Ratio Lower Upper
59 100
57 7.7 8.6 12.8#

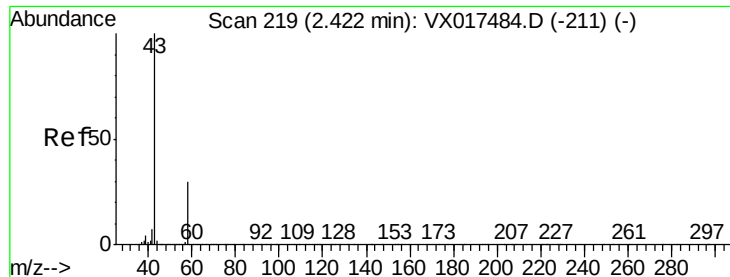


#13

Acrolein
Concen: 4.580 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

Tgt Ion: 56 Resp: 436
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.2#

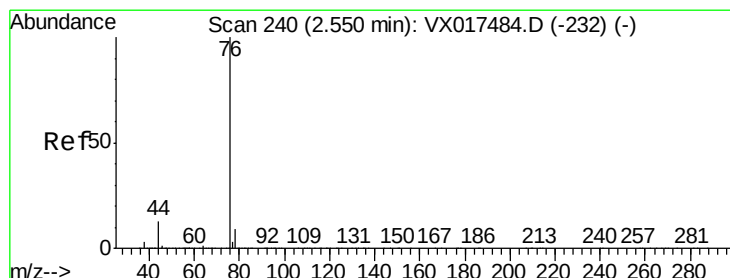
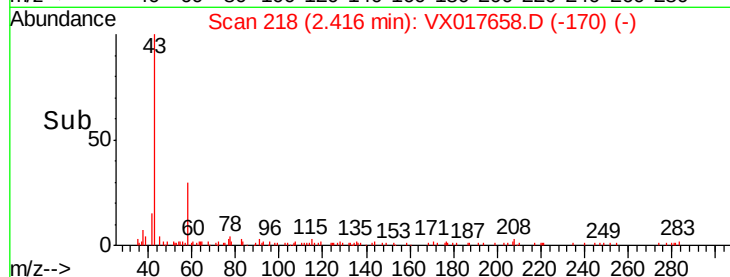
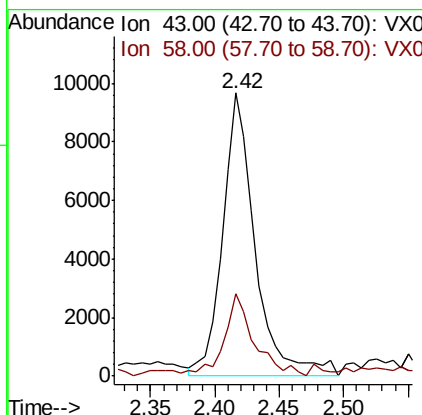
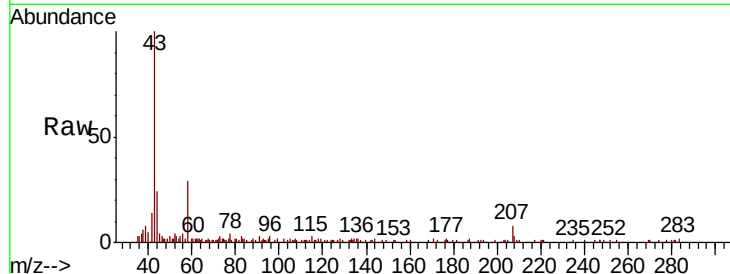




#16
Acetone
Concen: 6.277 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

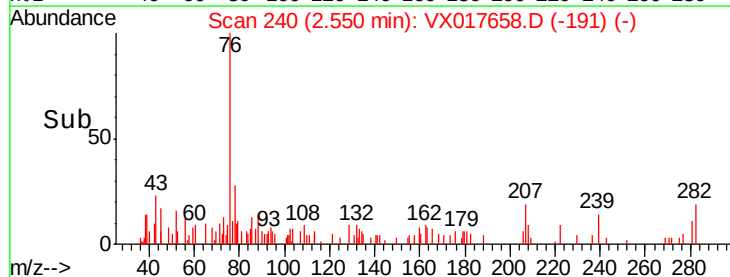
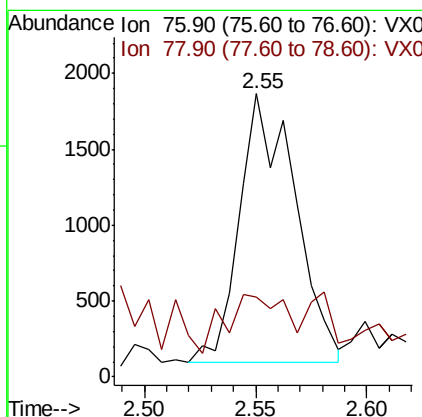
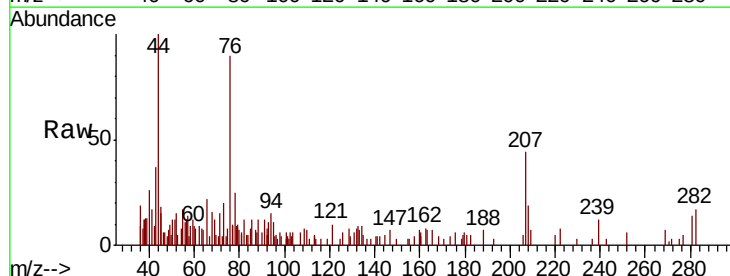
Instrument :
MSVOA_X
ClientSampled :

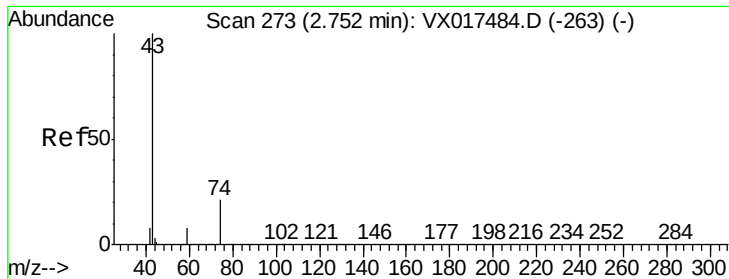
Tot Ion: 43 Resp: 17073
Ion Ratio Lower Upper
43 100
58 27.8 24.2 36.4



#17
Carbon Disulfide
Concen: 0.202 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

Tgt Ion: 76 Resp: 3053
Ion Ratio Lower Upper
76 100
78 17.5 7.5 11.3#

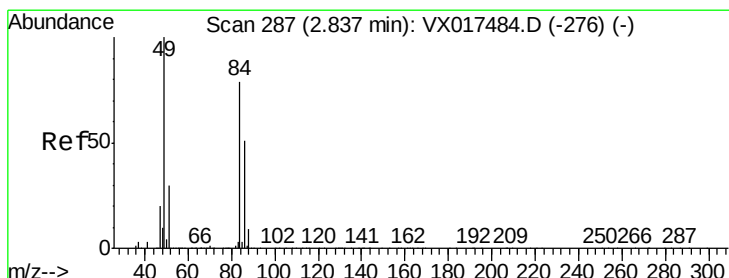
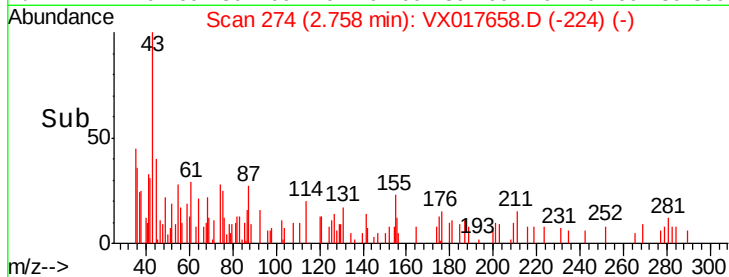
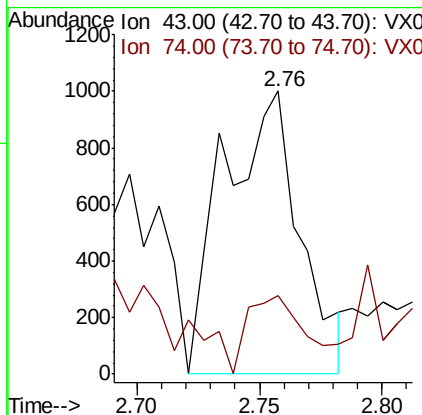
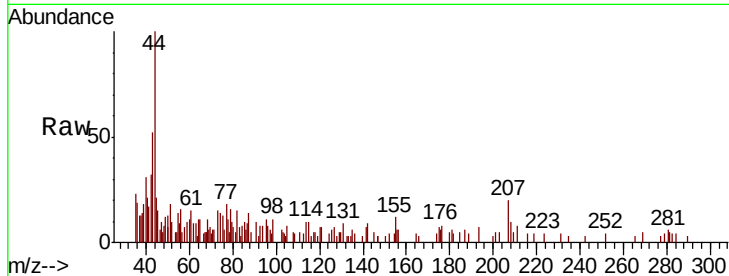




#18
Methyl Acetate
Concen: 0.338 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

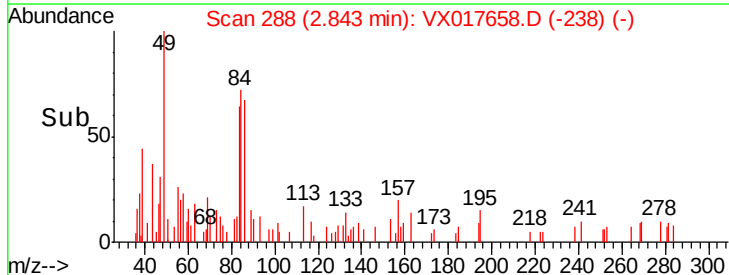
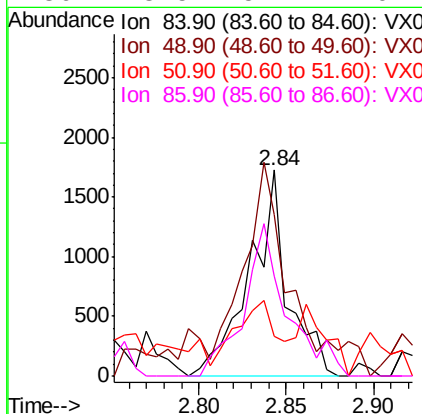
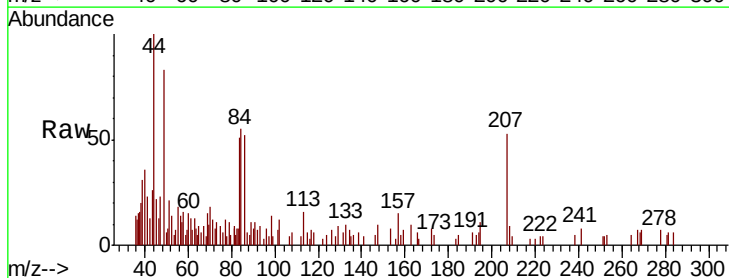
Instrument :
MSVOA_X
ClientSampled :

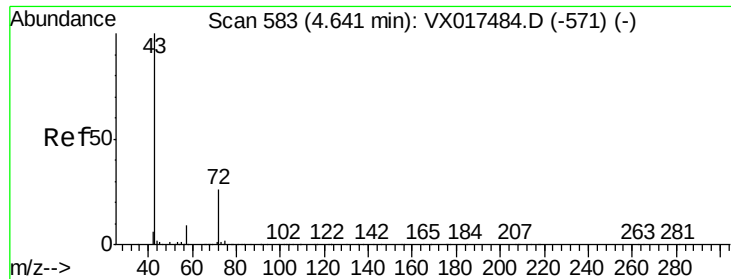
Tot Ion: 43 Resp: 2167
Ion Ratio Lower Upper
43 100
74 20.2 17.5 26.3



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

Tgt Ion: 84 Resp: 2633
Ion Ratio Lower Upper
84 100
49 65.7 100.3 150.5#
51 7.4 30.5 45.7#
86 48.5 51.1 76.7#





#25

2-Butanone

Concen: 0.581 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

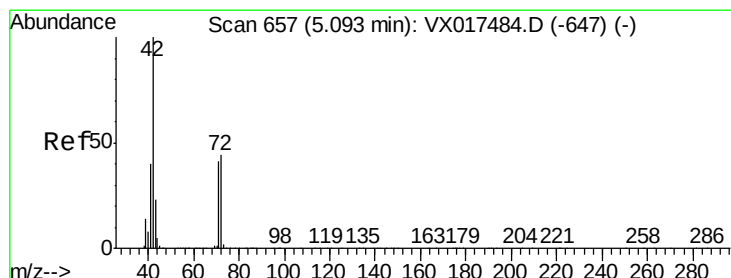
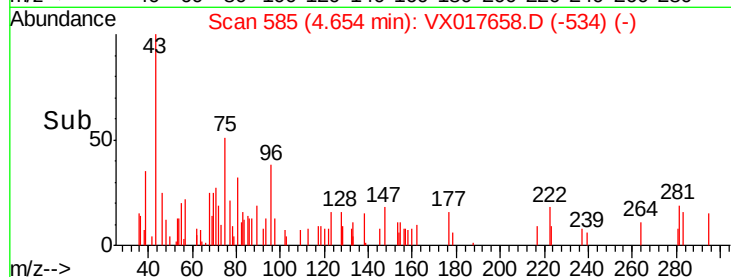
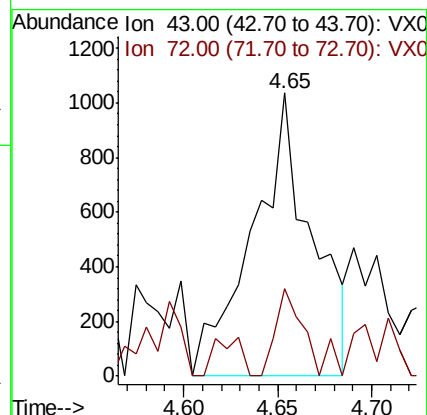
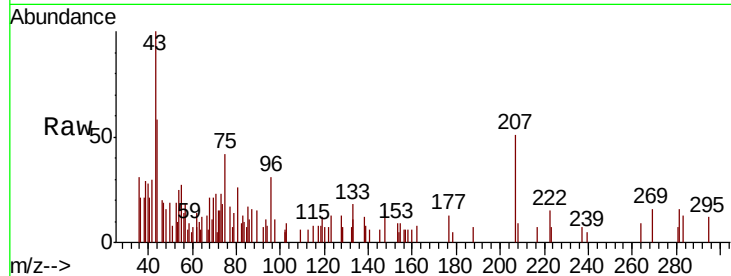
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 2246

Ion Ratio Lower Upper

43 100

72 30.8 19.0 28.4#



#29

Tetrahydrofuran

Concen: 0.450 ug/l

RT: 5.12 min Scan# 662

Delta R.T. 0.03 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

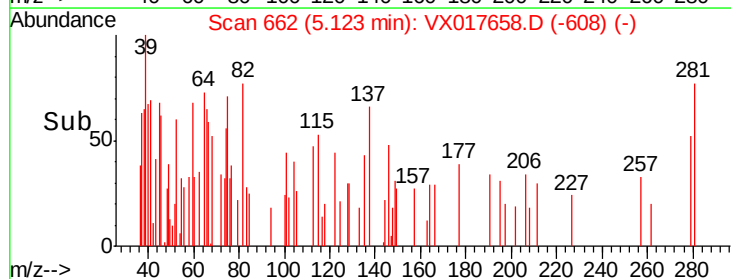
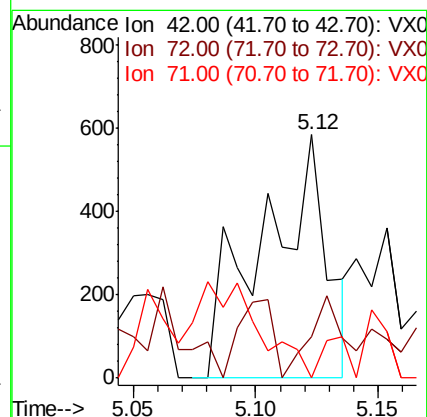
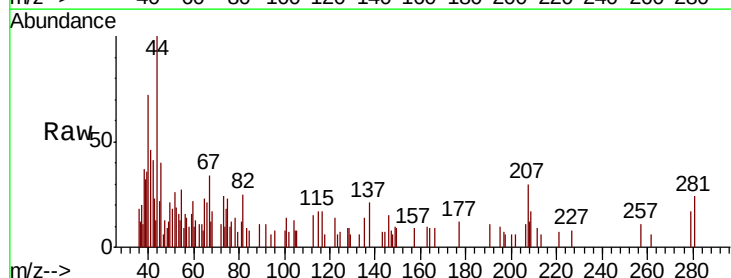
Tgt Ion: 42 Resp: 1077

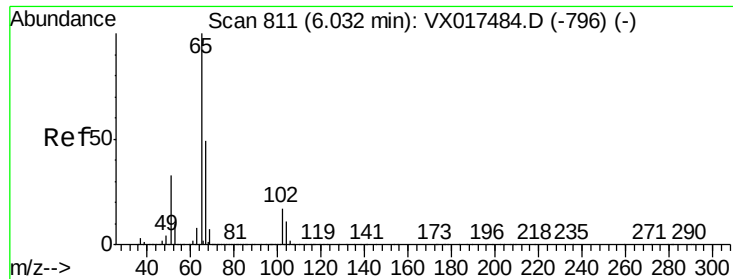
Ion Ratio Lower Upper

42 100

72 17.5 35.5 53.3#

71 6.4 33.0 49.4#

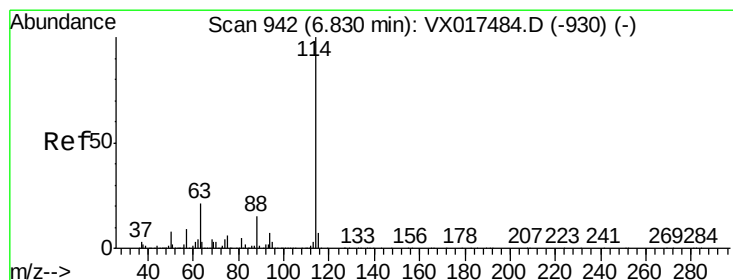
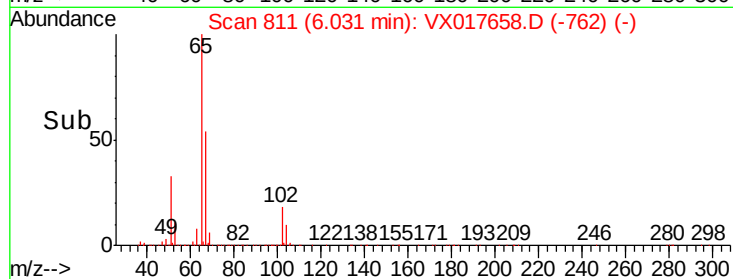
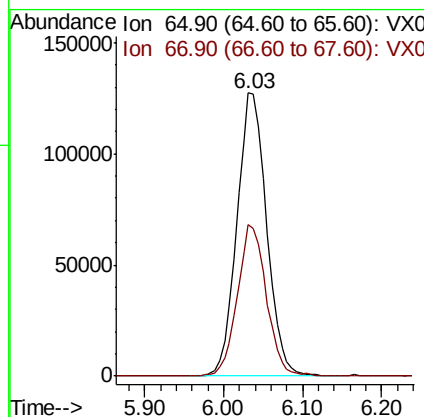
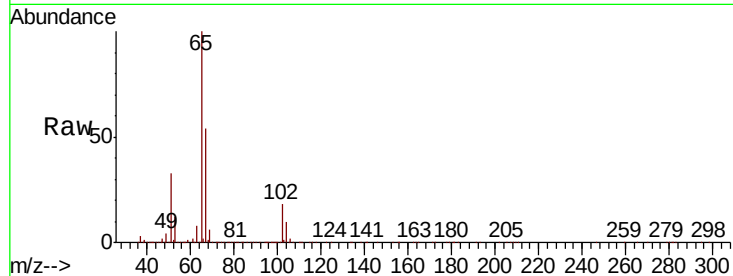




#33
 1,2-Dichloroethane-d4
 Concen: 53.960 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017658.D
 Acq: 28 Jul 2020 17:12

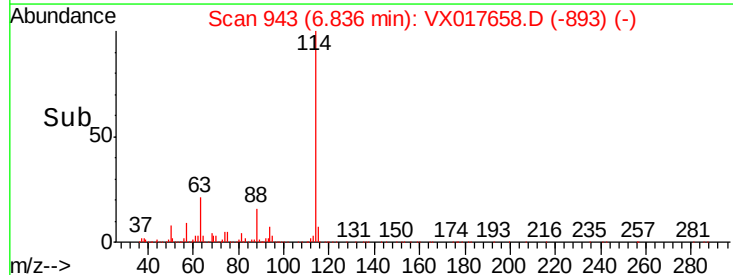
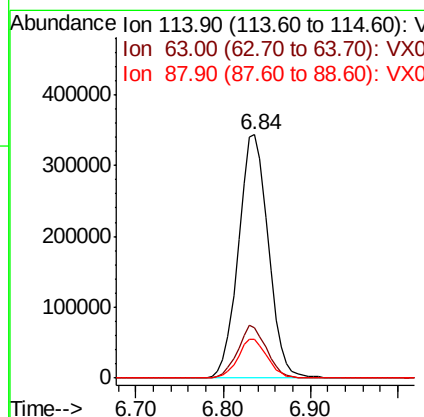
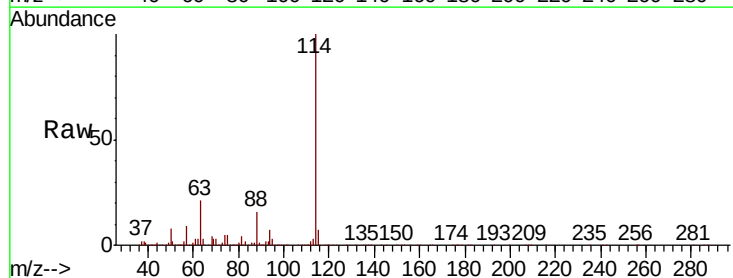
Instrument :
 MSVOA_X
 ClientSampled :

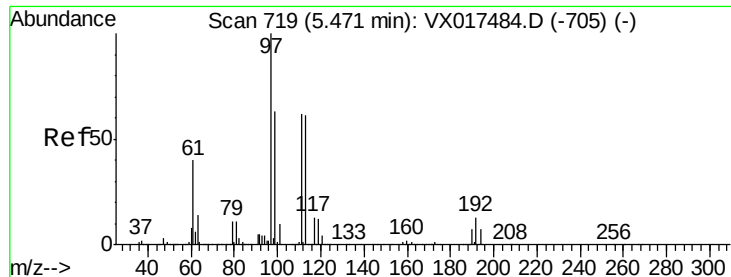
Tot Ion: 65 Resp: 333471
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017658.D
 Acq: 28 Jul 2020 17:12

Tgt Ion: 114 Resp: 817107
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.6
 88 16.0 0.0 33.4

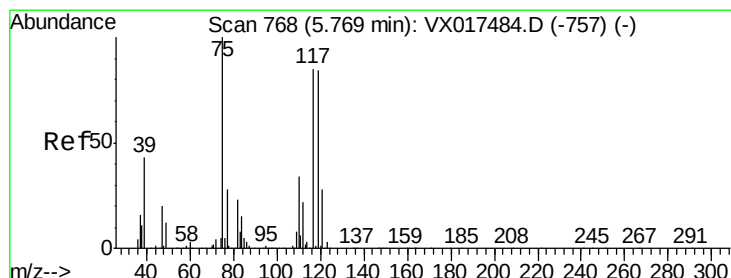
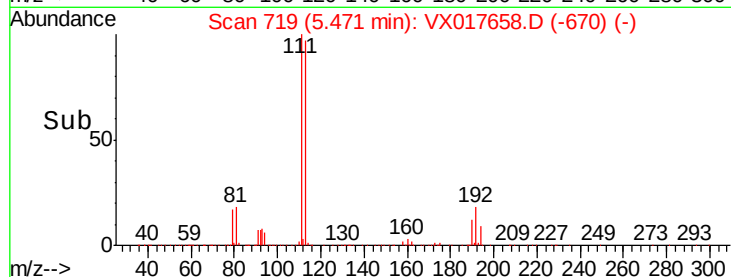
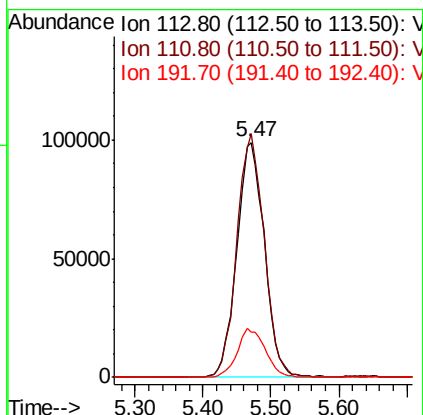
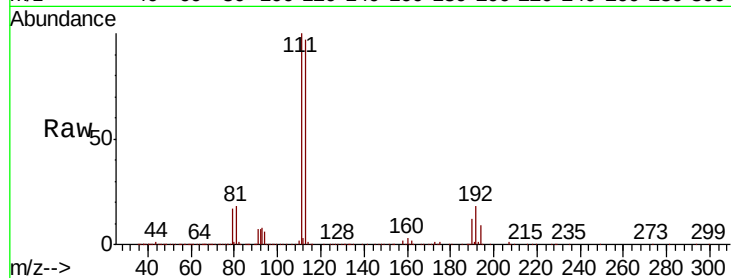




#35
 Dibromofluoromethane
 Concen: 51.137 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017658.D
 Acq: 28 Jul 2020 17:12

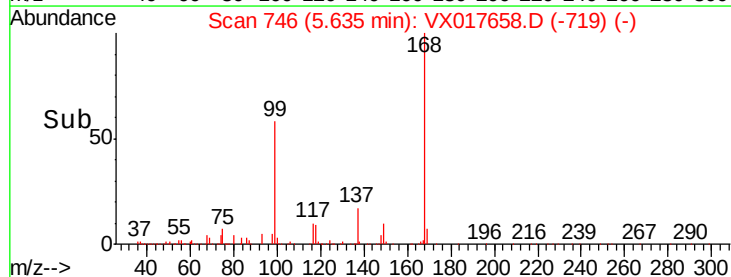
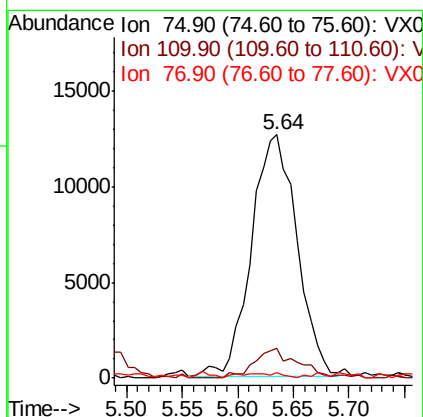
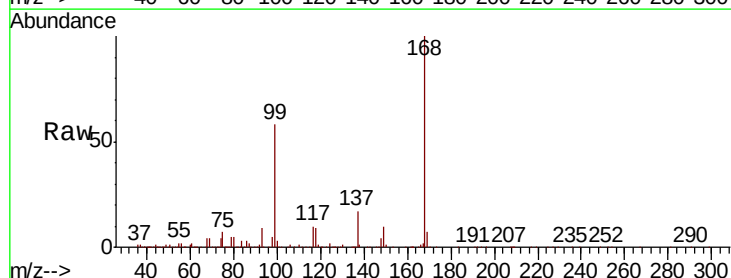
Instrument :
 MSVOA_X
 ClientSampleId :

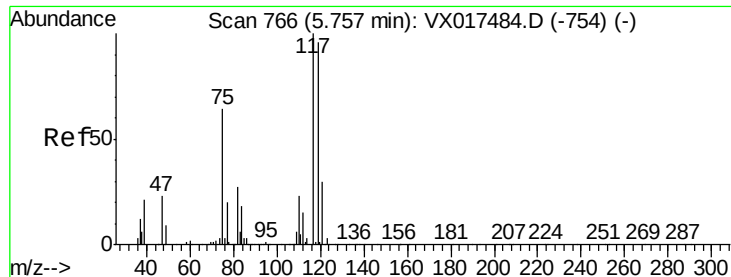
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.7	121.1
192	21.3	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 4.621 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017658.D
 Acq: 28 Jul 2020 17:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.9	18.1	54.3#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.064 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

Instrument :

MSVOA_X

ClientSampled :

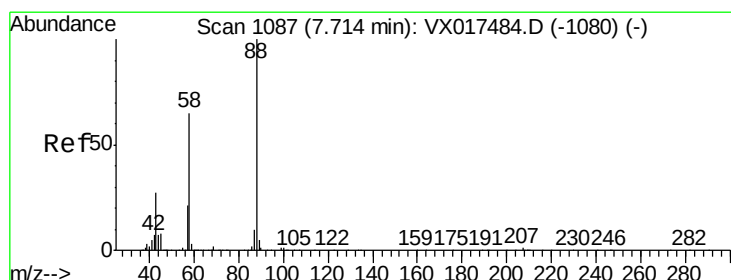
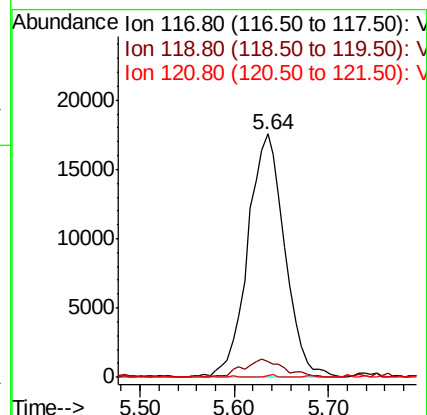
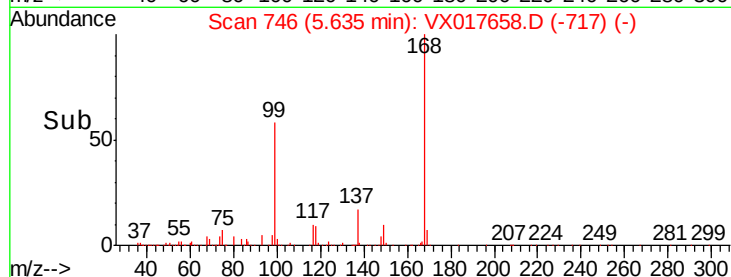
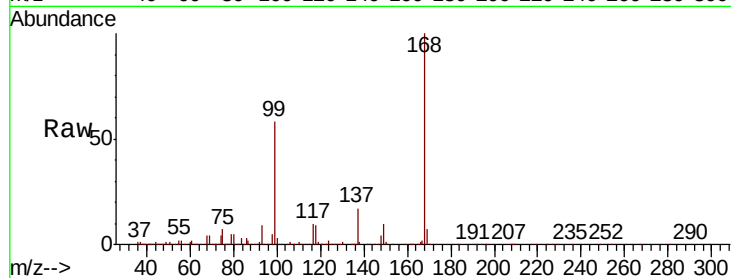
Tot Ion:117 Resp: 48191

Ion Ratio Lower Upper

117 100

119 6.3 75.4 113.0#

121 0.5 24.3 36.5#



#49

1,4-Dioxane

Concen: 1.272 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

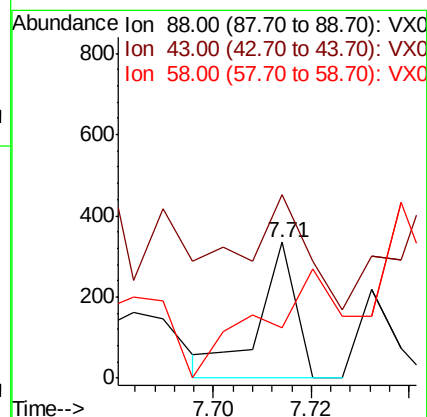
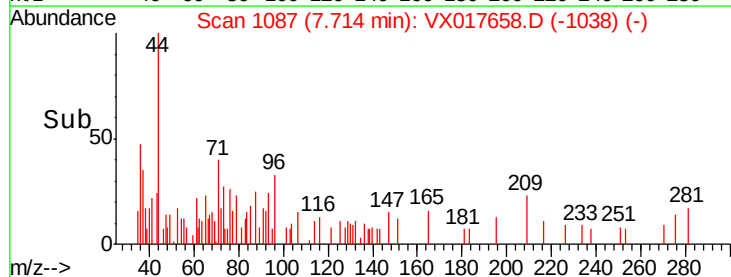
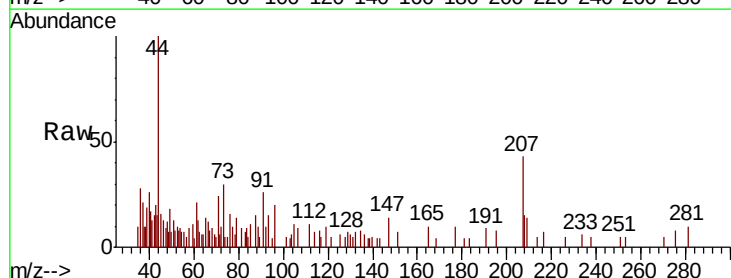
Tgt Ion: 88 Resp: 171

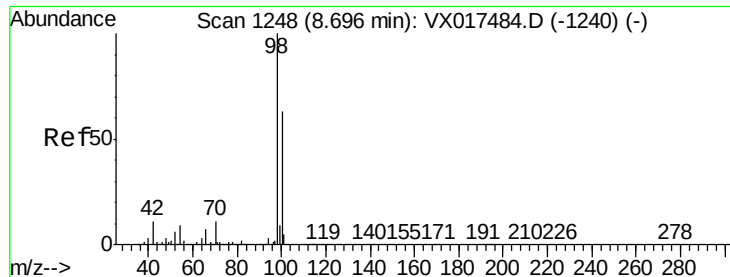
Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

58 0.0 58.3 87.5#

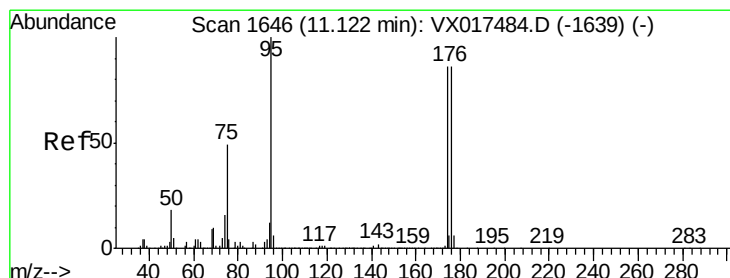
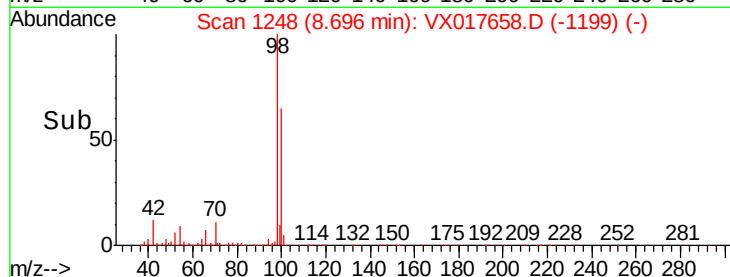
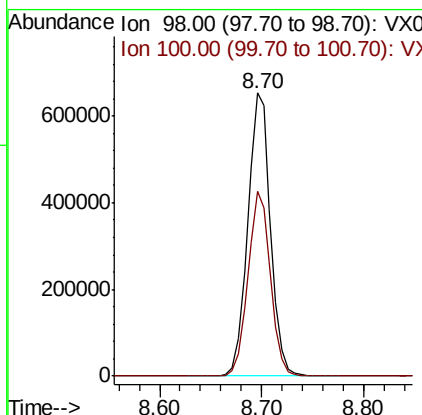
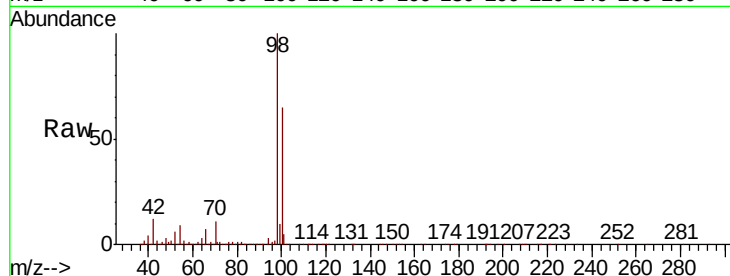




#50
Toluene-d8
Concen: 51.111 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

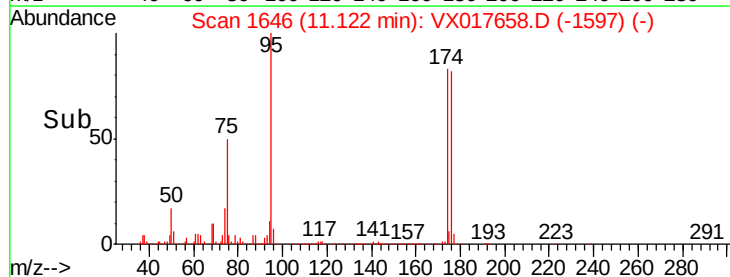
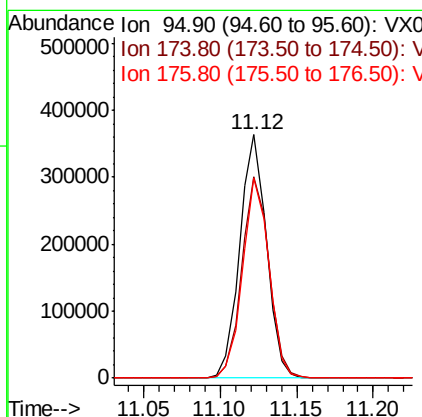
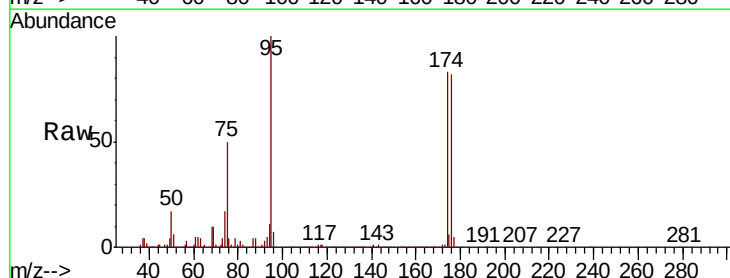
Instrument :
MSVOA_X
ClientSampleId :

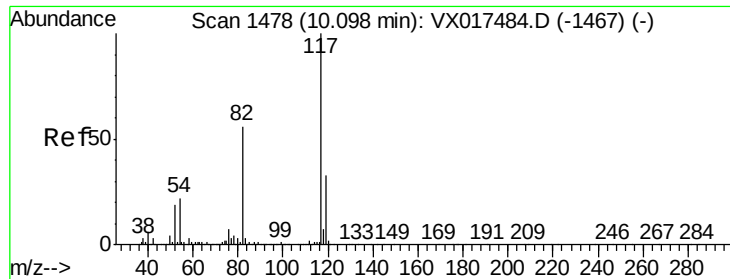
Tot Ion: 98 Resp: 1007610
Ion Ratio Lower Upper
98 100
100 64.7 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 55.741 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

Tgt Ion: 95 Resp: 439778
Ion Ratio Lower Upper
95 100
174 84.3 0.0 169.0
176 81.3 0.0 161.0

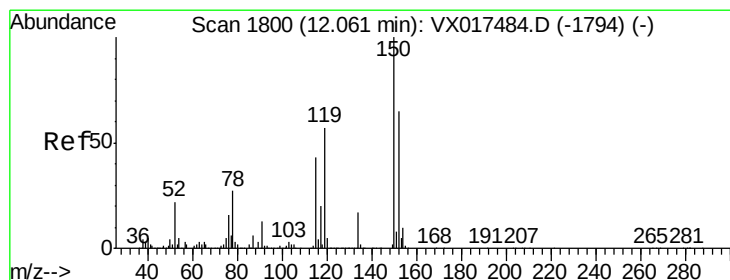
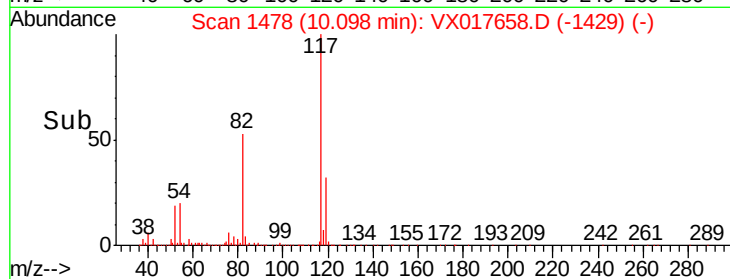
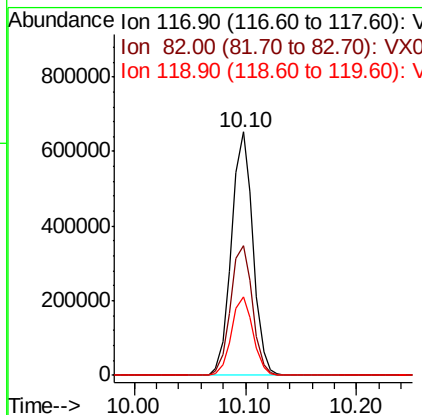
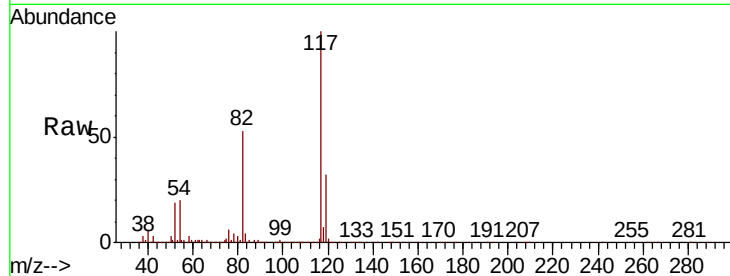




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

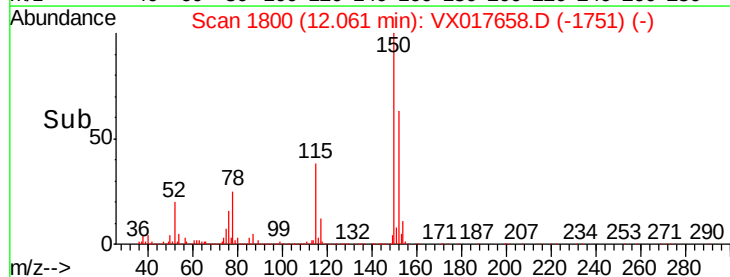
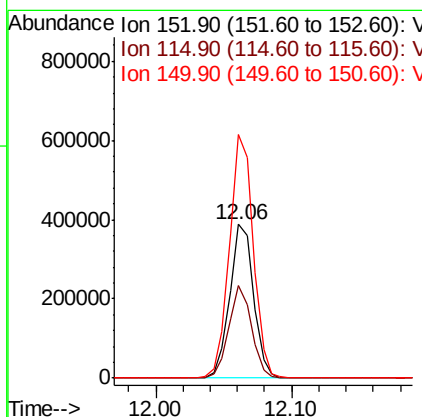
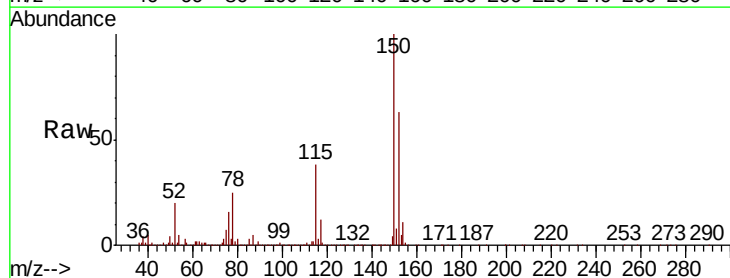
Instrument :
MSVOA_X
ClientSampled :

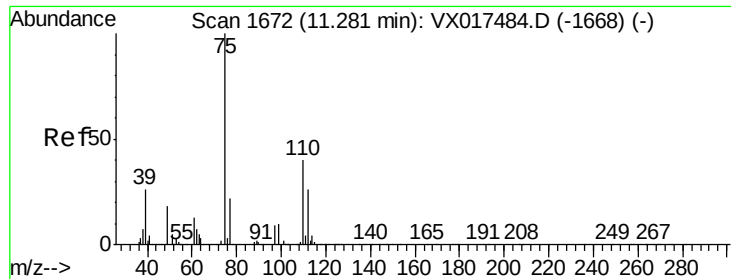
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	44.0	66.0
119	32.2	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017658.D
Acq: 28 Jul 2020 17:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.5	65.5	196.6#
150	157.6	0.0	412.6





#76

1,2,3-Trichloropropane

Concen: 23.180 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

Instrument :

MSVOA_X

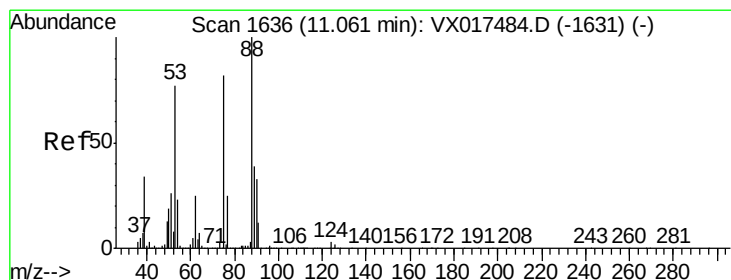
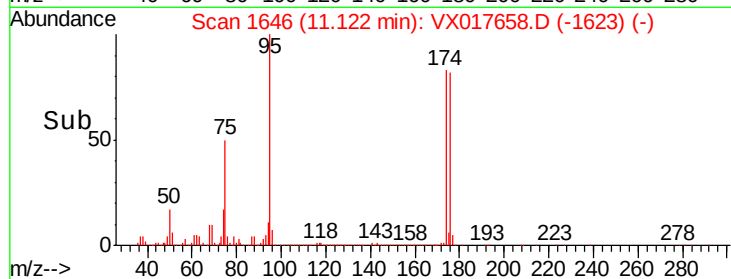
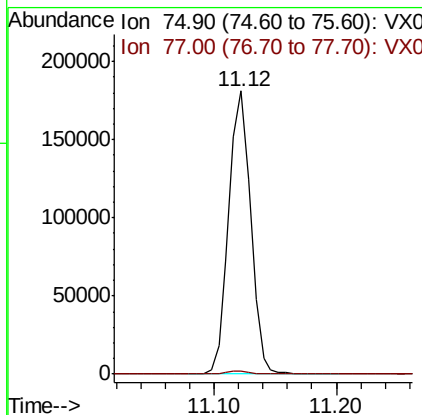
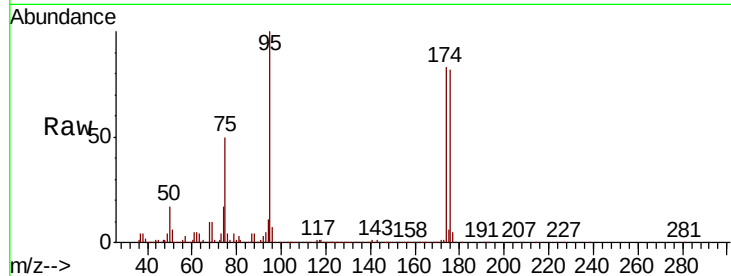
ClientSampleId :

Tot Ion: 75 Resp: 225747

Ion Ratio Lower Upper

75 100

77 1.2 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.408 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

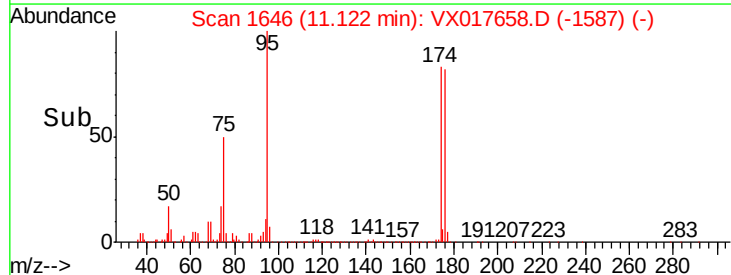
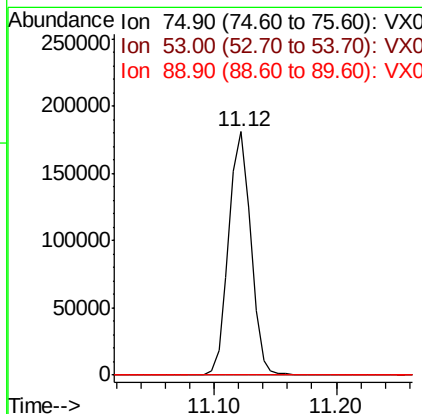
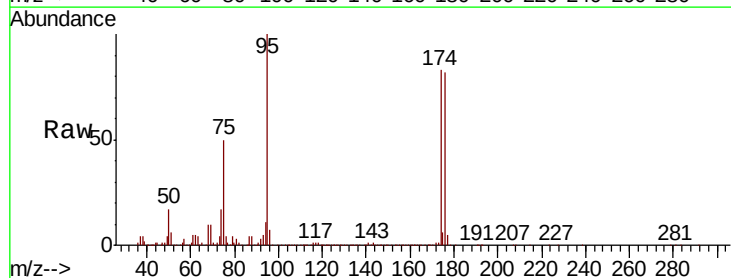
Tgt Ion: 75 Resp: 225747

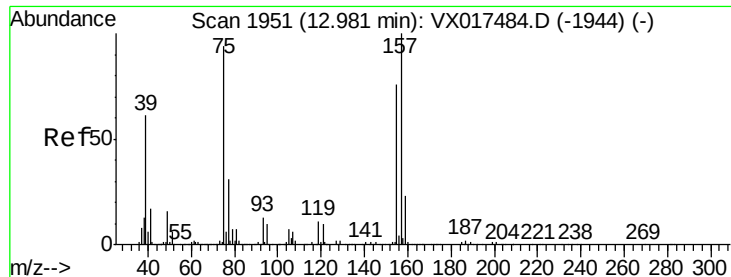
Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

89 0.0 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.642 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017658.D

Acq: 28 Jul 2020 17:12

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 198

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 0.0 54.3 162.9#

