

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072320\
 Data File : VX017499.D
 Acq On : 23 Jul 2020 17:53
 Operator : JC/SP
 Sample : L3189-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BU-02-072120

Quant Time: Jul 24 05:59:01 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

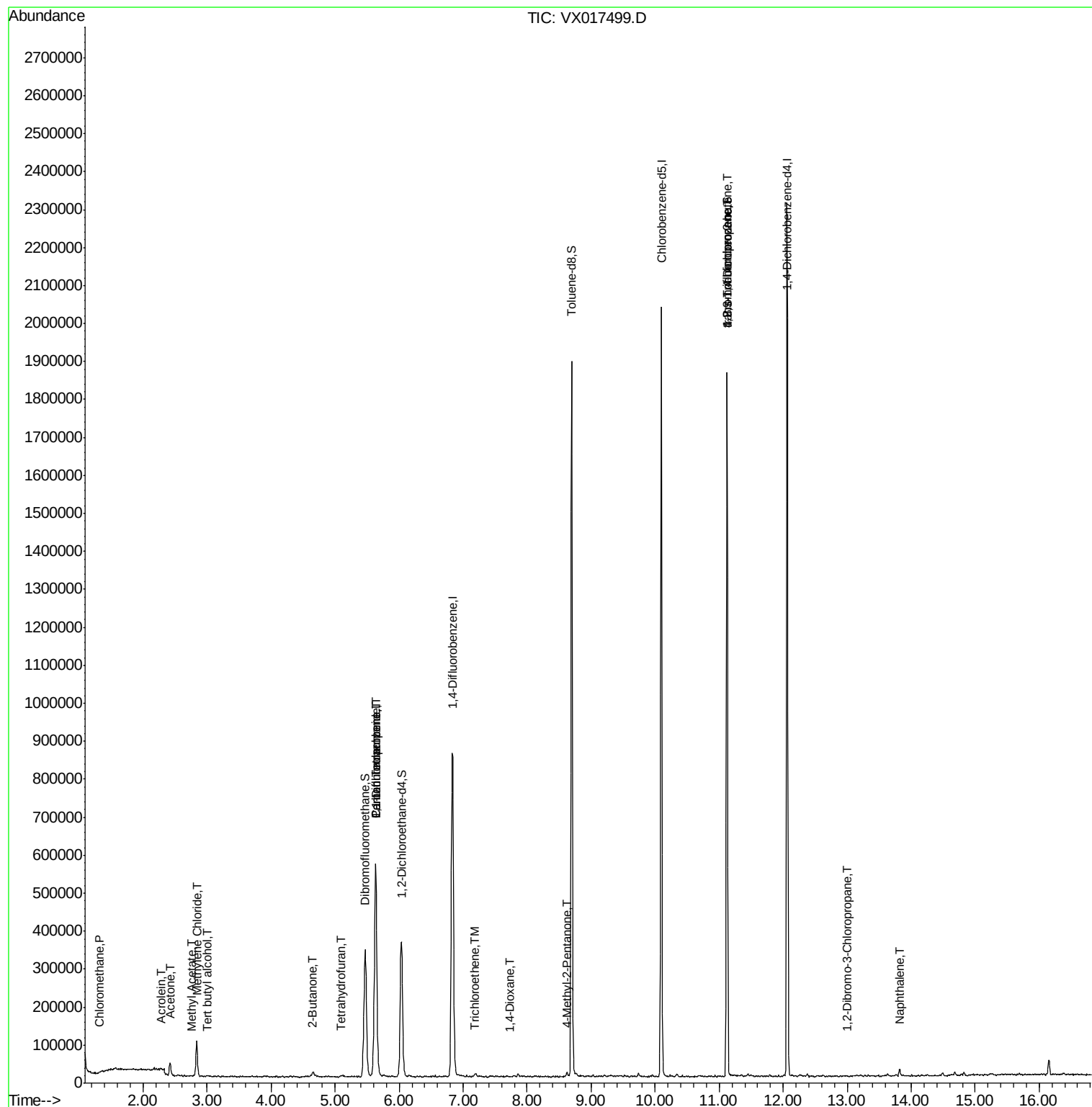
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	519127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	882007	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	913582	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	484827	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	362388	54.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.68%	
35) Dibromofluoromethane	5.47	113	292531	49.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.18%	
50) Toluene-d8	8.70	98	1100061	51.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.38%	
62) 4-Bromofluorobenzene	11.12	95	472776	55.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.02%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	196	Below Cal	#	32
3) Chloromethane	1.32	50	1407	0.585 ug/l	#	65
5) Bromomethane	1.65	94	1699	Below Cal	#	19
6) Chloroethane	1.73	64	848	Below Cal		98
8) Diethyl Ether	2.17	74	1994	Below Cal		90
11) Tert butyl alcohol	3.01	59	568	0.404 ug/l	#	72
13) Acrolein	2.27	56	781	4.864 ug/l		95
16) Acetone	2.42	43	36423	12.410 ug/l		93
18) Methyl Acetate	2.76	43	1688	0.244 ug/l	#	39
20) Methylene Chloride	2.84	84	42653	6.602 ug/l		94
25) 2-Butanone	4.65	43	7322	1.756 ug/l	#	75
29) Tetrahydrofuran	5.09	42	1448	0.561 ug/l	#	60
36) 1,1-Dichloropropene	5.64	75	39124	4.625 ug/l	#	52
38) Carbon Tetrachloride	5.64	117	54383	5.294 ug/l	#	18
44) Trichloroethene	7.18	130	2784	0.393 ug/l		50
49) 1,4-Dioxane	7.73	88	168	1.158 ug/l	#	37
51) 4-Methyl-2-Pentanone	8.62	43	6401	0.702 ug/l		89
76) 1,2,3-Trichloropropane	11.12	75	236577	23.721 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.12	75	236577	59.773 ug/l	#	12
92) 1,2-Dibromo-3-Chloropropan	13.01	75	190	2.638 ug/l		71
95) Naphthalene	13.82	128	11145	0.348 ug/l	#	88

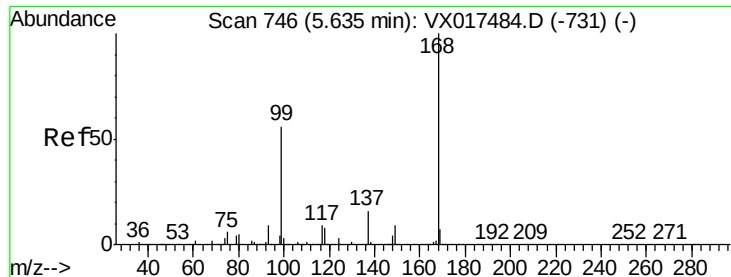
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072320\
Data File : VX017499.D
Acq On : 23 Jul 2020 17:53
Operator : JC/SP
Sample : L3189-05
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BU-02-072120

Quant Time: Jul 24 05:59:01 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
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: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

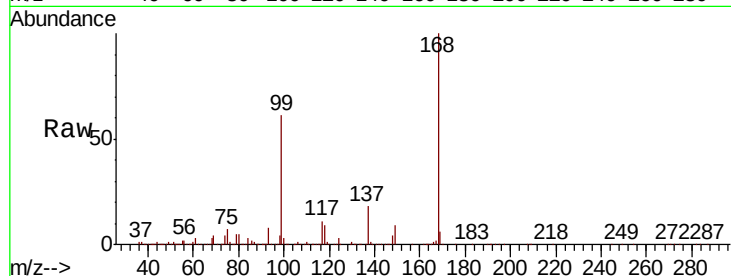
BU-02-072120

Tot Ion:168 Resp: 519127

Ion Ratio Lower Upper

168 100

99 61.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

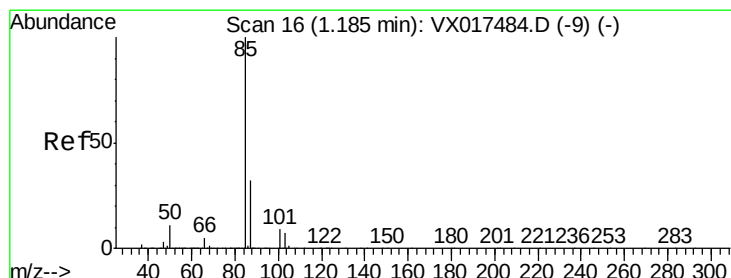
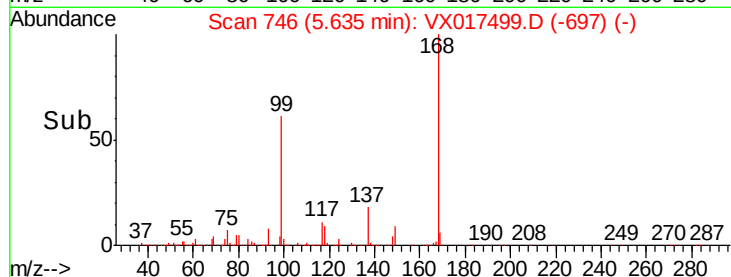
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017499.D

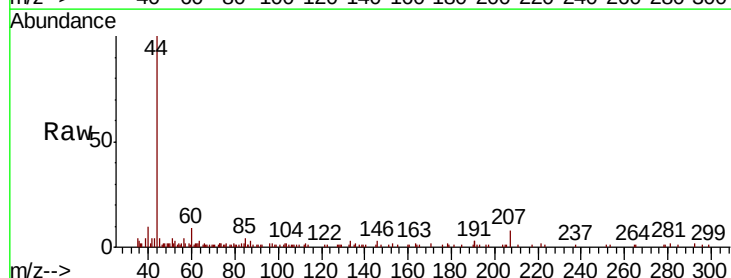
Acq: 23 Jul 2020 17:53

Tgt Ion: 85 Resp: 196

Ion Ratio Lower Upper

85 100

87 70.2 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

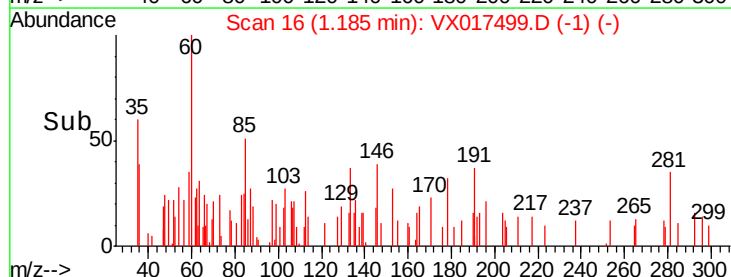
200

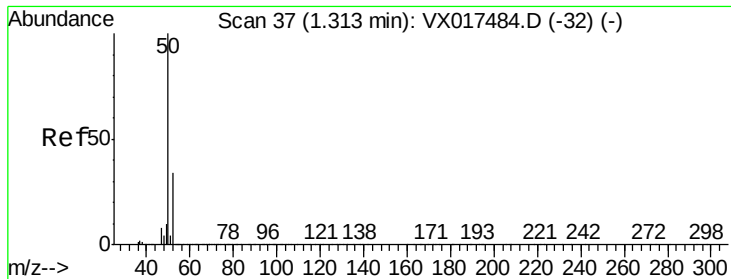
100

0

Time-->

1.16 1.18 1.20





#3

Chloromethane

Concen: 0.585 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampled :

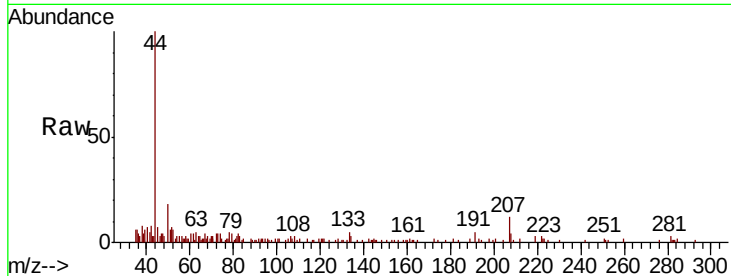
BU-02-072120

Tot Ion: 50 Resp: 1407

Ion Ratio Lower Upper

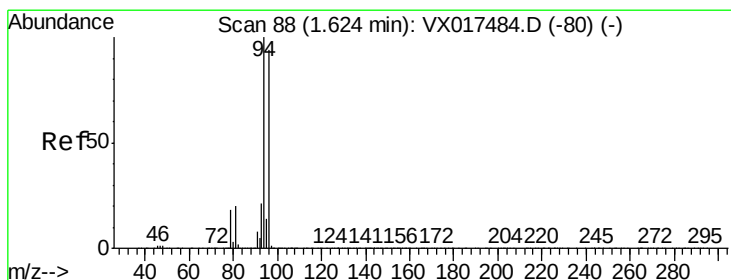
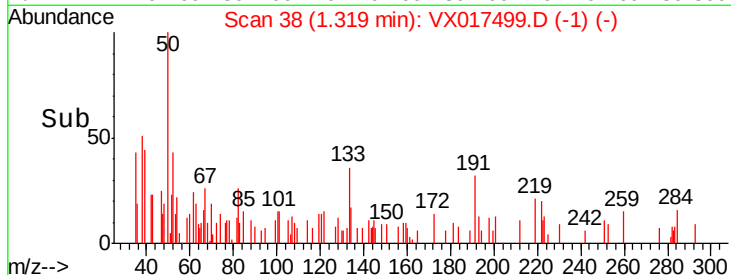
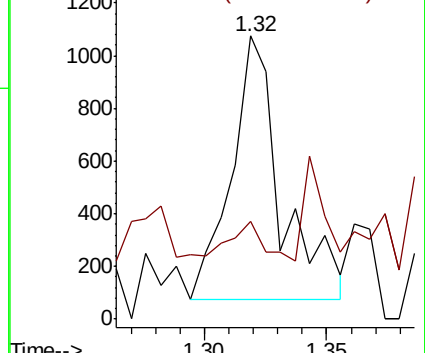
50 100

52 12.6 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: 1.65 min Scan# 92

Delta R.T. 0.03 min

Lab File: VX017499.D

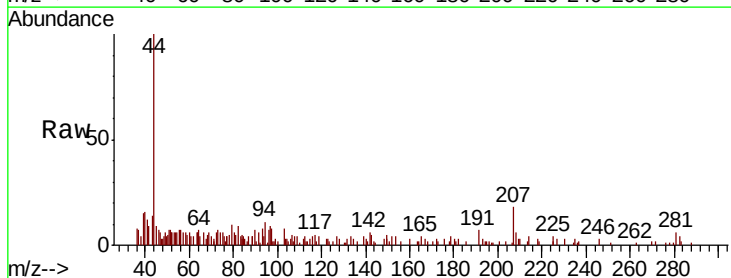
Acq: 23 Jul 2020 17:53

Tgt Ion: 94 Resp: 1699

Ion Ratio Lower Upper

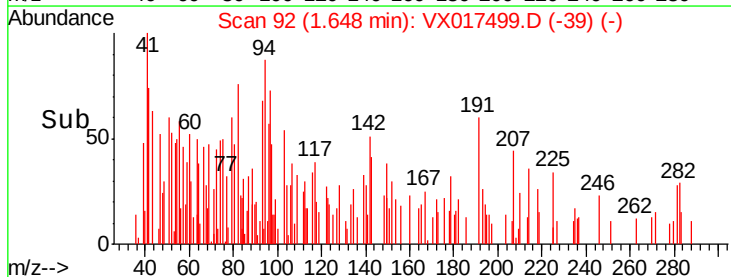
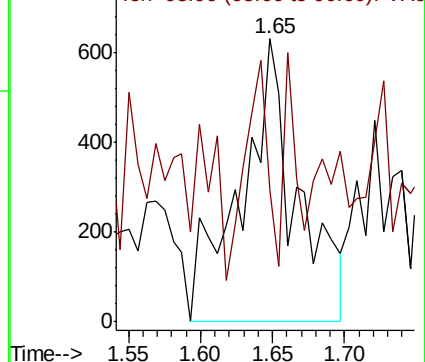
94 100

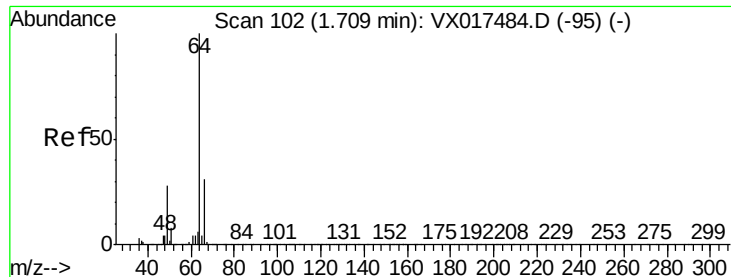
96 14.9 74.1 111.1#



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: 1.73 min Scan# 105

Delta R.T. 0.02 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

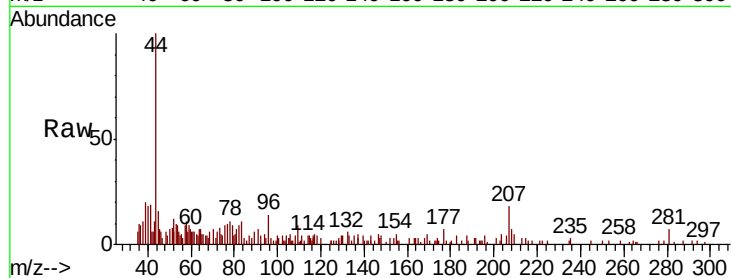
BU-02-072120

Tot Ion: 64 Resp: 848

Ion Ratio Lower Upper

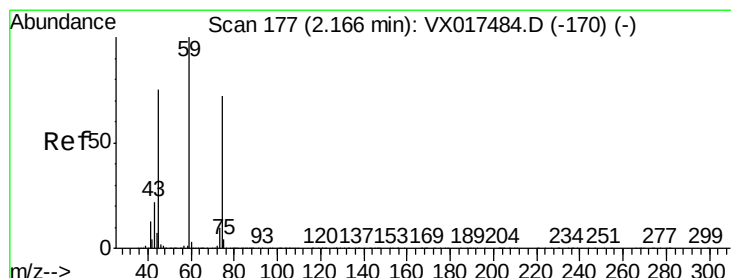
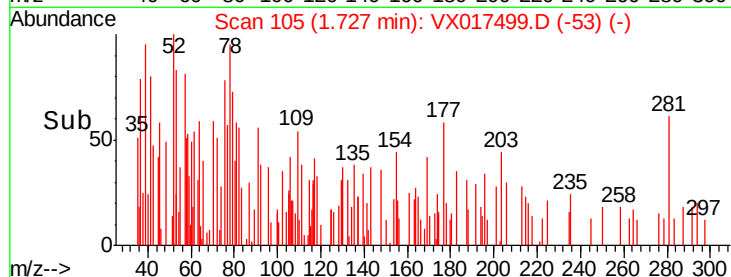
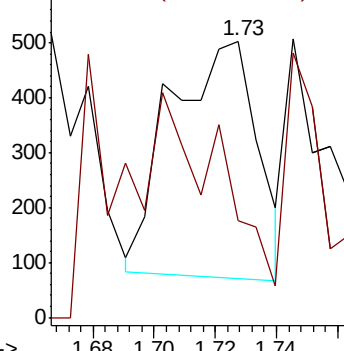
64 100

66 30.1 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: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017499.D

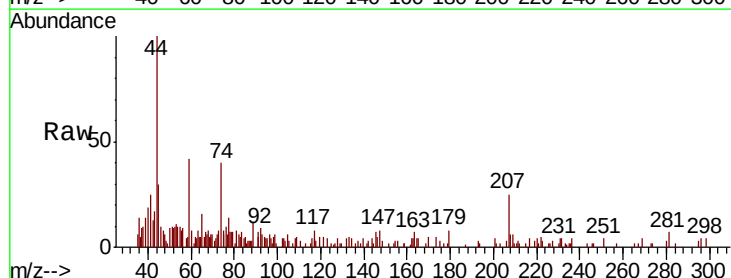
Acq: 23 Jul 2020 17:53

Tgt Ion: 74 Resp: 1994

Ion Ratio Lower Upper

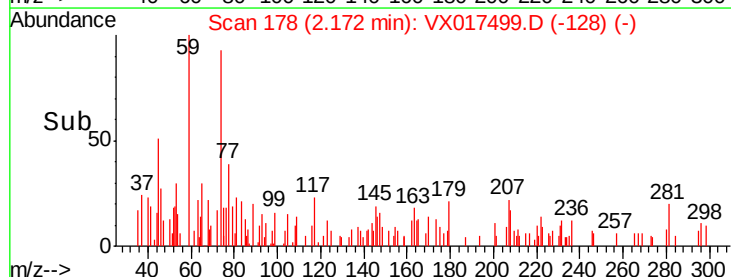
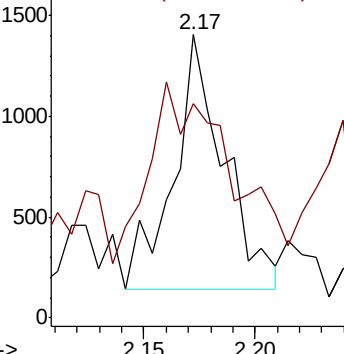
74 100

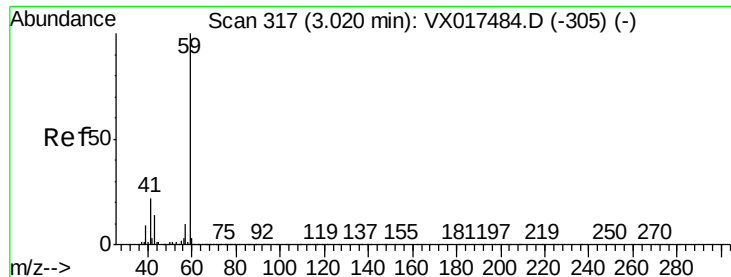
45 111.4 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



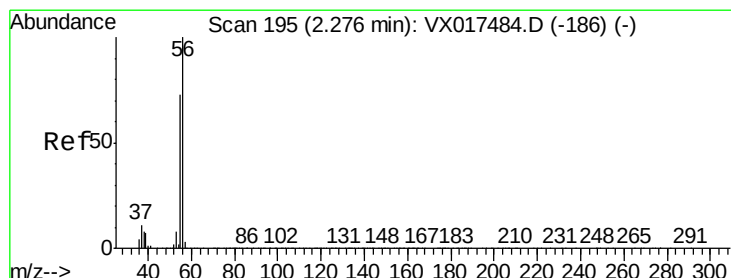
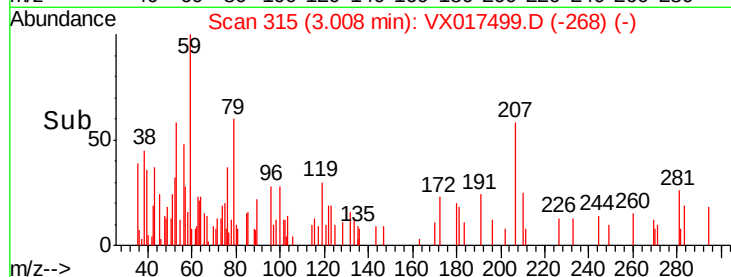
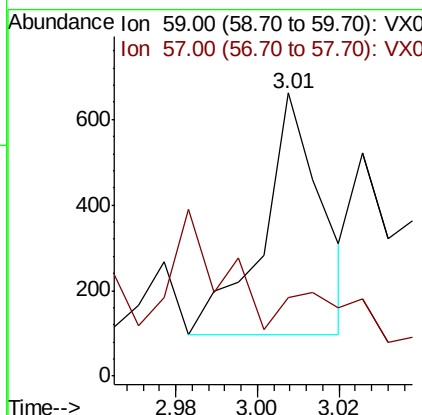
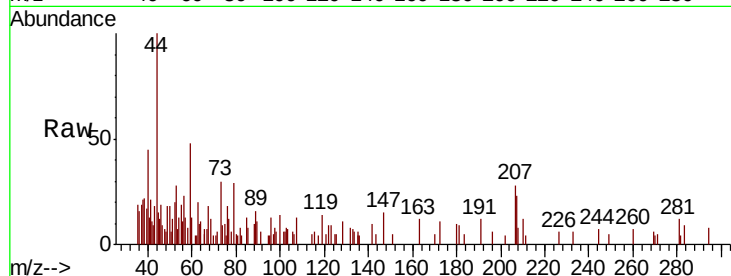


#11

Tert butyl alcohol
Concen: 0.404 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017499.D
Acq: 23 Jul 2020 17:53

Instrument :
MSVOA_X
ClientSampled :
BU-02-072120

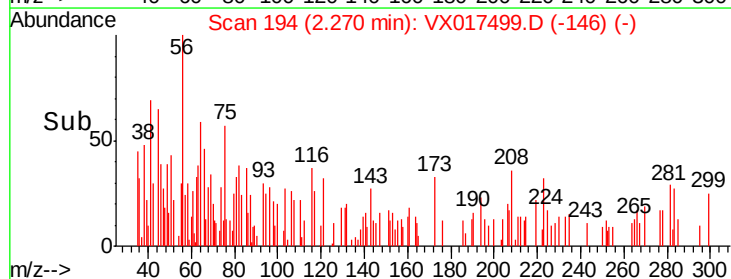
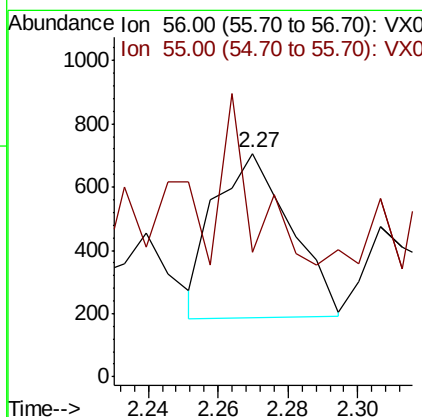
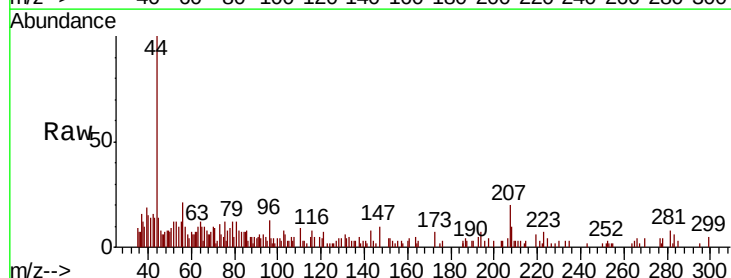
Tot Ion: 59 Resp: 568
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

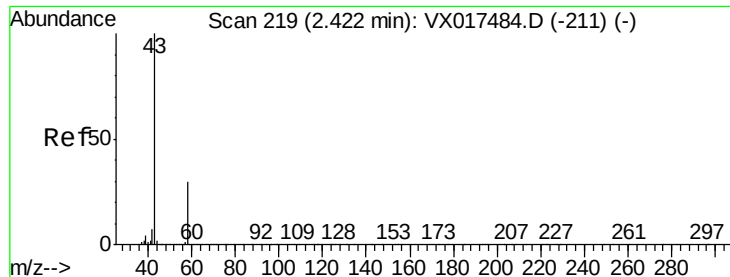


#13

Acrolein
Concen: 4.864 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017499.D
Acq: 23 Jul 2020 17:53

Tgt Ion: 56 Resp: 781
Ion Ratio Lower Upper
56 100
55 67.7 57.4 86.2





#16

Acetone

Concen: 12.410 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

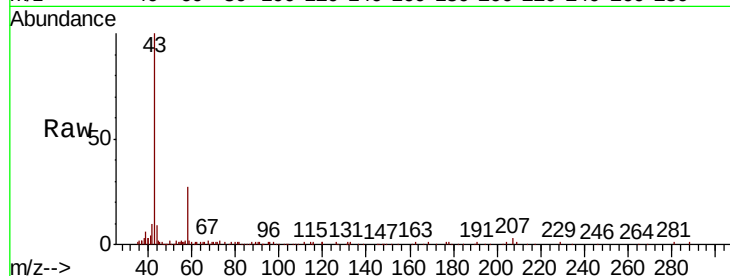
BU-02-072120

Tot Ion: 43 Resp: 36423

Ion Ratio Lower Upper

43 100

58 26.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

25000

20000

15000

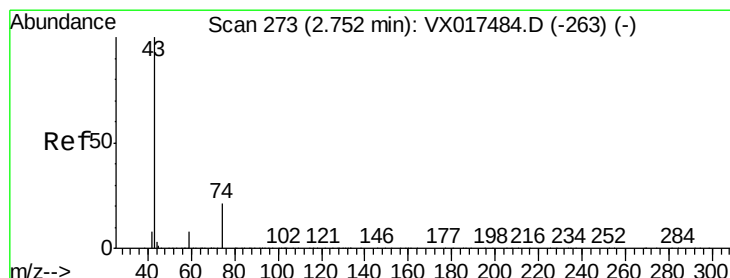
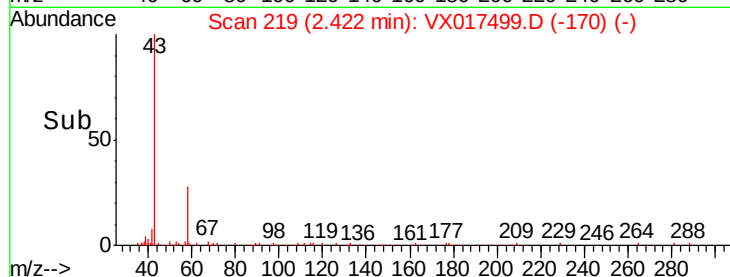
10000

5000

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.244 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX017499.D

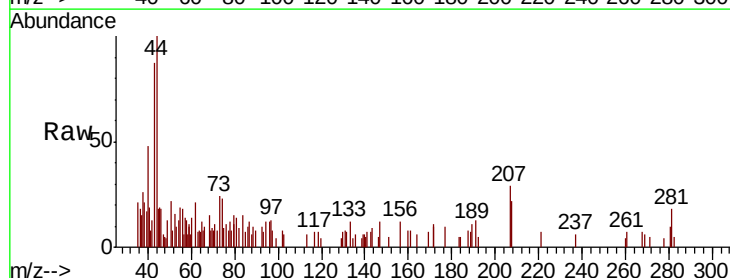
Acq: 23 Jul 2020 17:53

Tgt Ion: 43 Resp: 1688

Ion Ratio Lower Upper

43 100

74 50.7 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.76

1200

1000

800

600

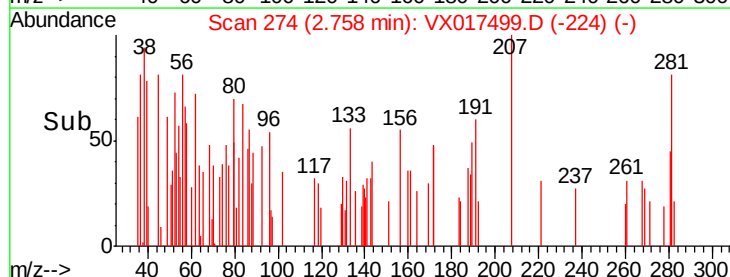
400

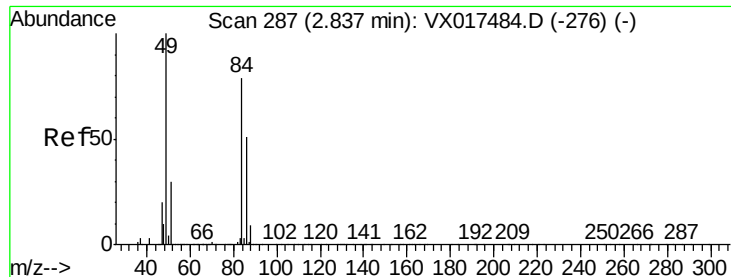
200

0

Time-->

2.70 2.75 2.80

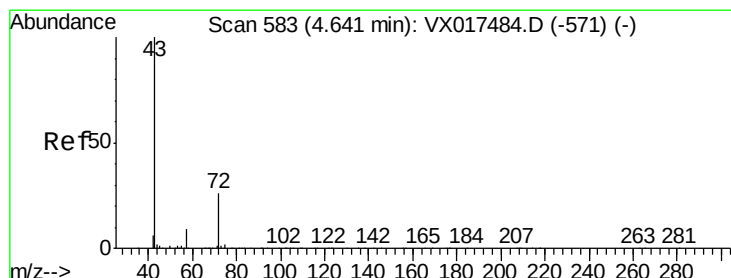
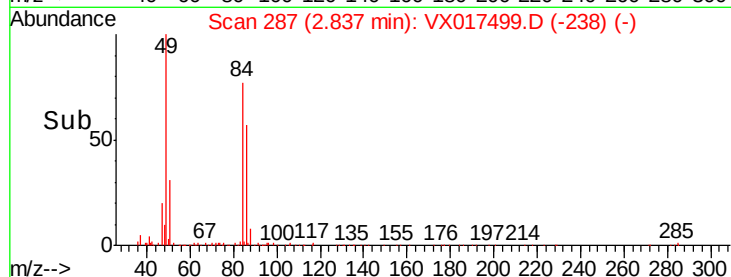
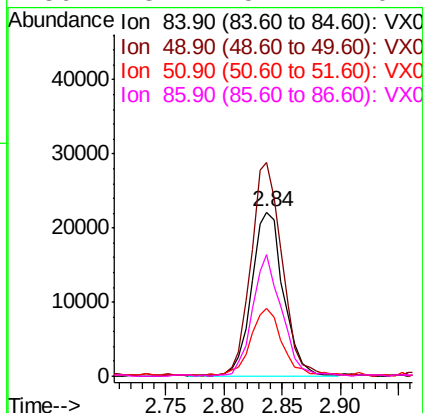
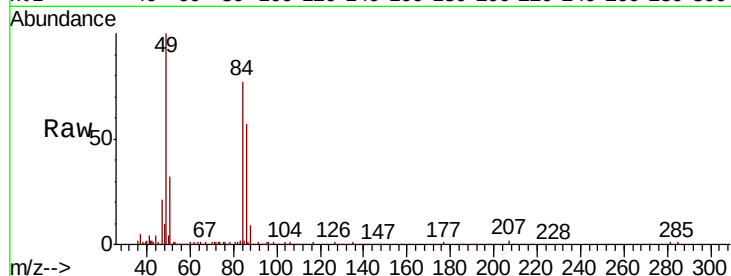




#20
Methylene Chloride
Concen: 6.602 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017499.D
Acq: 23 Jul 2020 17:53

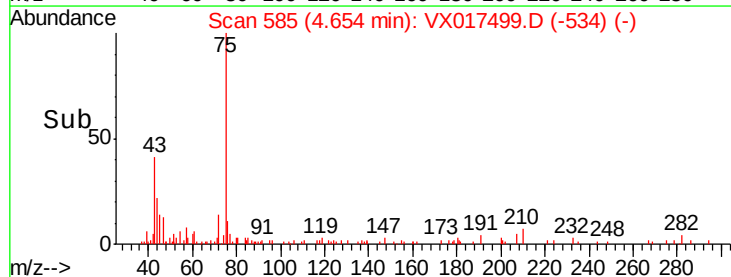
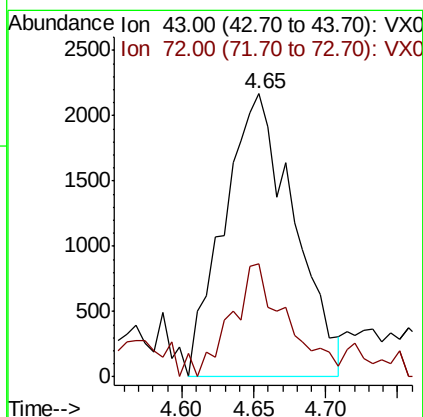
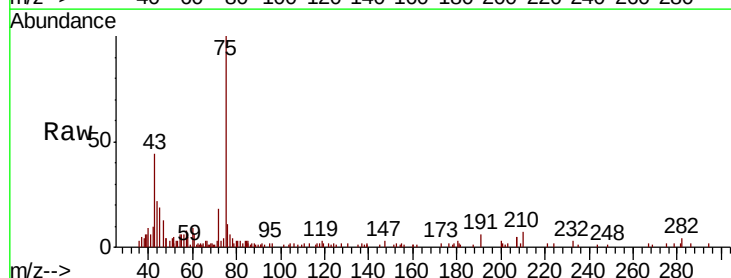
Instrument :
MSVOA_X
ClientSampleId :
BU-02-072120

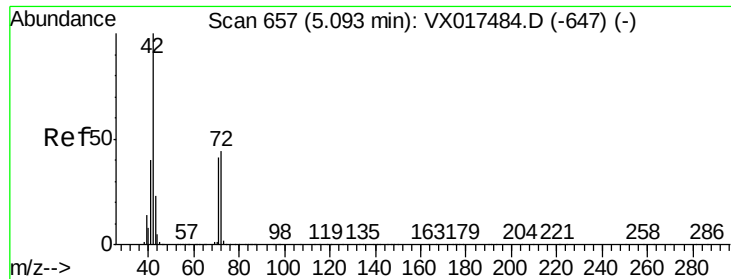
Tot Ion:	84	Resp:	42653
Ion	Ratio	Lower	Upper
84	100		
49	128.7	100.3	150.5
51	40.7	30.5	45.7
86	73.4	51.1	76.7



#25
2-Butanone
Concen: 1.756 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX017499.D
Acq: 23 Jul 2020 17:53

Tgt Ion:	43	Resp:	7322
Ion	Ratio	Lower	Upper
43	100		
72	36.0	19.0	28.4#

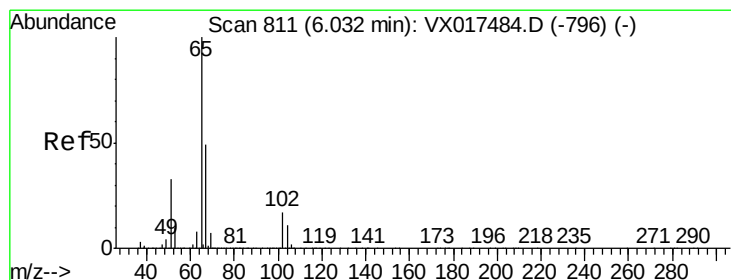
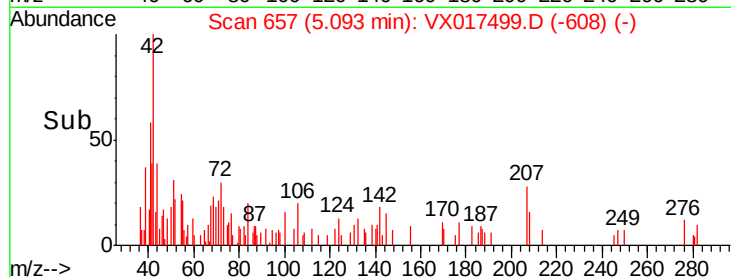
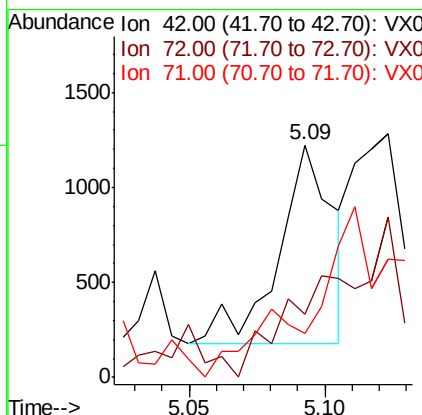
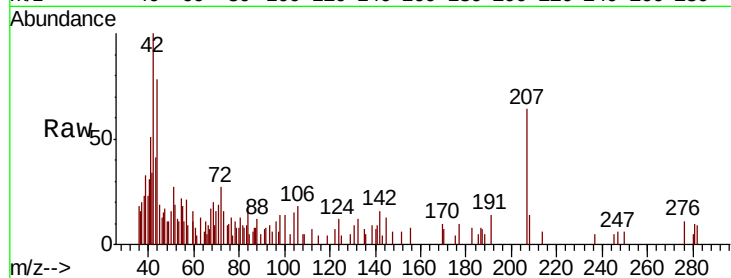




#29
Tetrahydrofuran
Concen: 0.561 ug/l
RT: 5.09 min Scan# 657
Delta R.T. -0.00 min
Lab File: VX017499.D
Acq: 23 Jul 2020 17:53

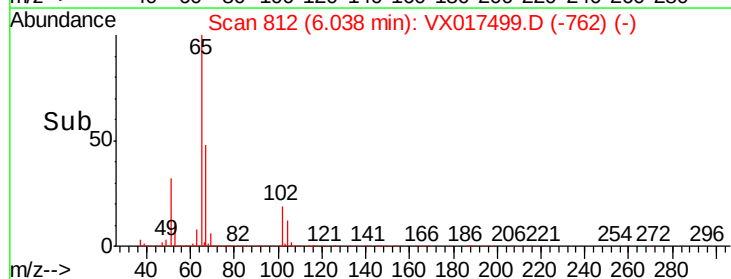
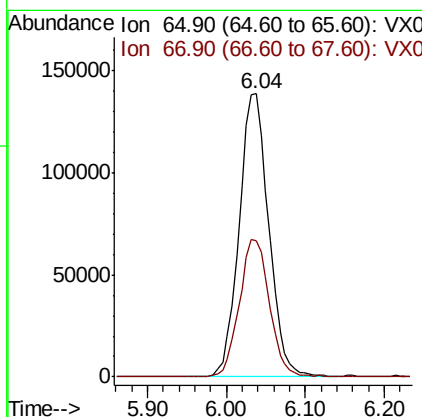
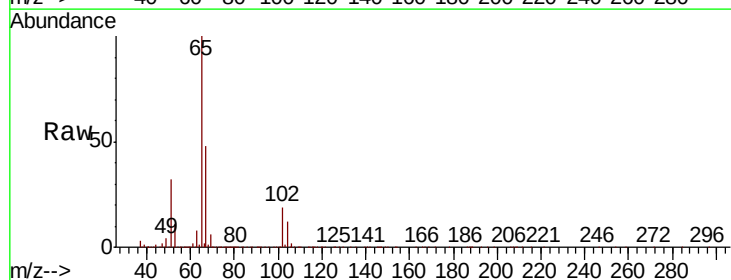
Instrument :
MSVOA_X
ClientSampleId :
BU-02-072120

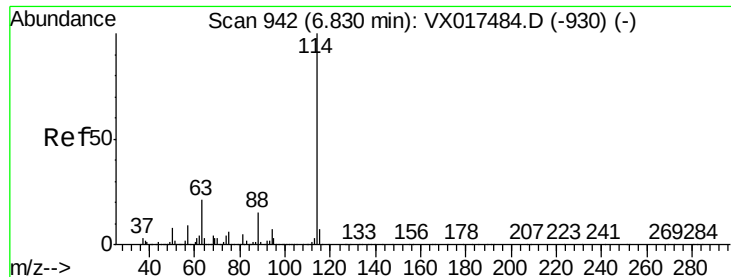
Tot Ion: 42 Resp: 1448
Ion Ratio Lower Upper
42 100
72 0.0 35.5 53.3#
71 34.7 33.0 49.4



#33
1,2-Dichloroethane-d4
Concen: 54.344 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017499.D
Acq: 23 Jul 2020 17:53

Tgt Ion: 65 Resp: 362388
Ion Ratio Lower Upper
65 100
67 49.4 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: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

BU-02-072120

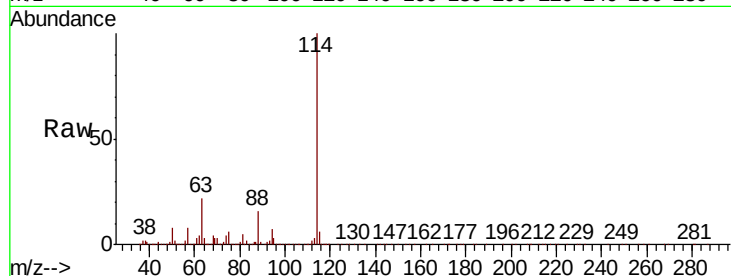
Tot Ion:114 Resp: 882007

Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.6

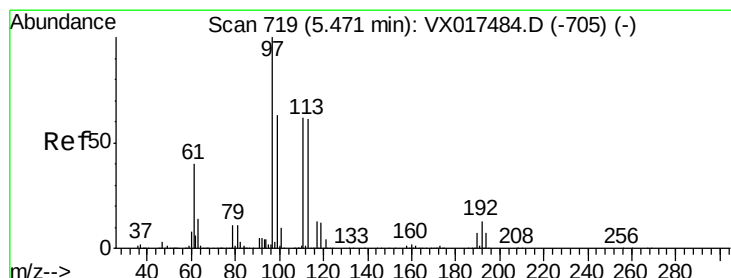
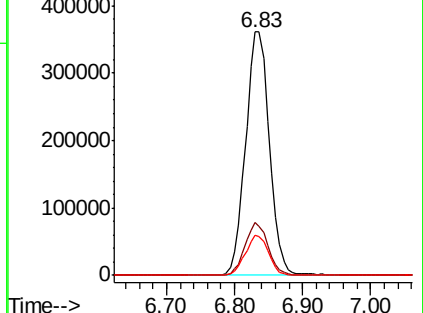
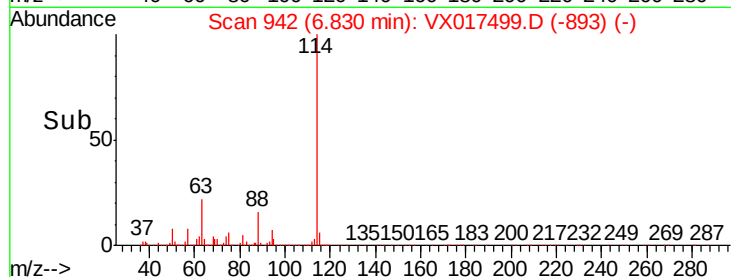
88 16.3 0.0 33.4



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: 49.591 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

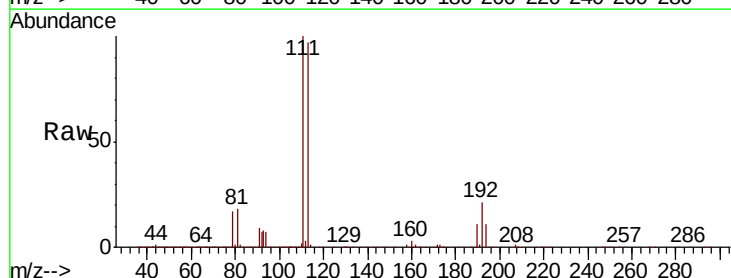
Tgt Ion:113 Resp: 292531

Ion Ratio Lower Upper

113 100

111 102.8 80.7 121.1

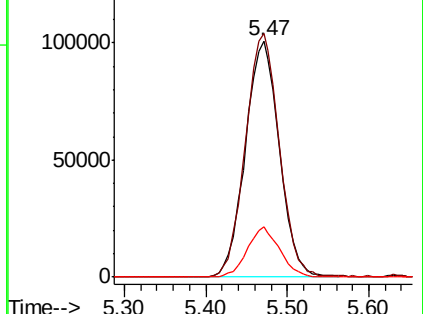
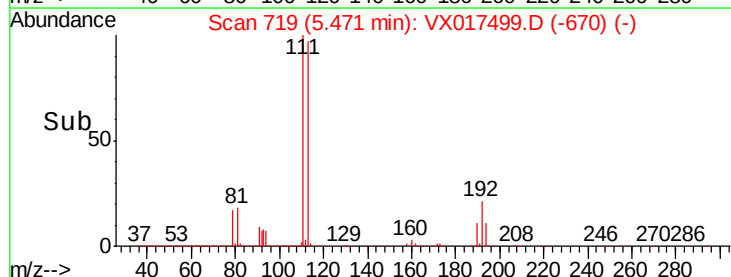
192 20.2 16.9 25.3

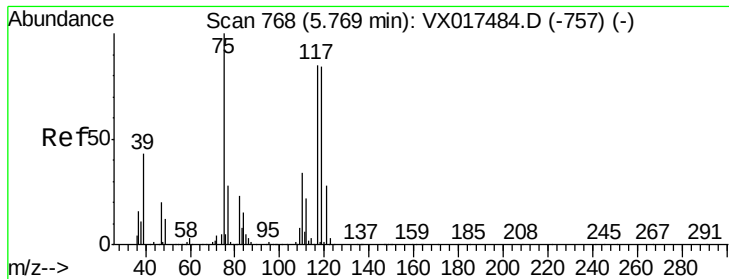


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.625 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

BU-02-072120

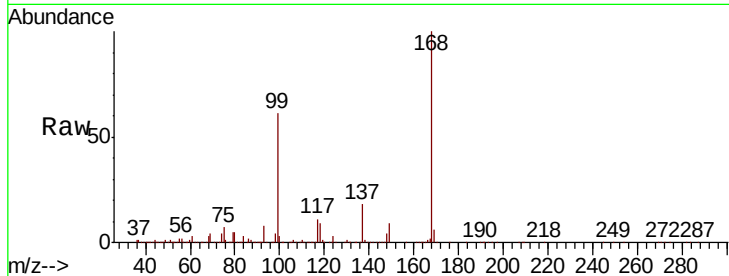
Tot Ion: 75 Resp: 39124

Ion Ratio Lower Upper

75 100

110 11.9 18.1 54.3#

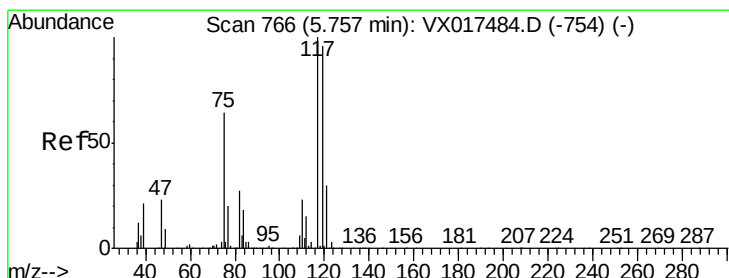
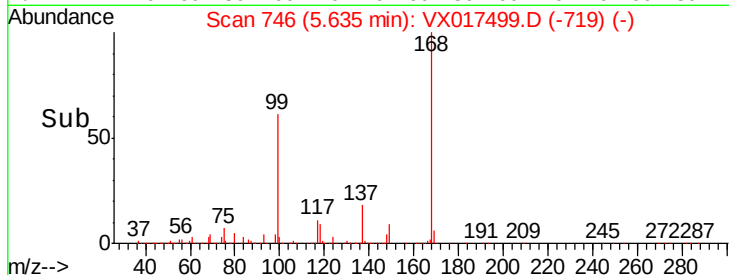
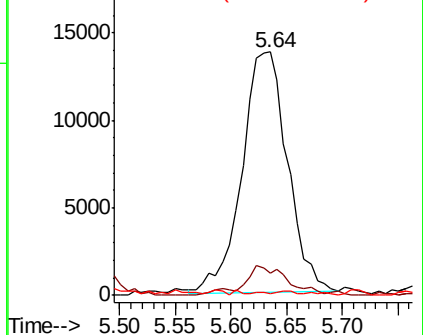
77 0.1 24.6 37.0#



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: 5.294 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

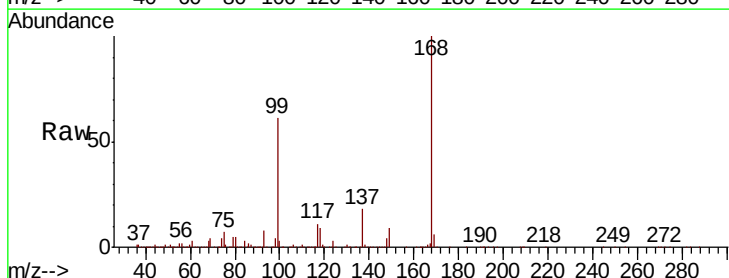
Tgt Ion: 117 Resp: 54383

Ion Ratio Lower Upper

117 100

119 7.4 75.4 113.0#

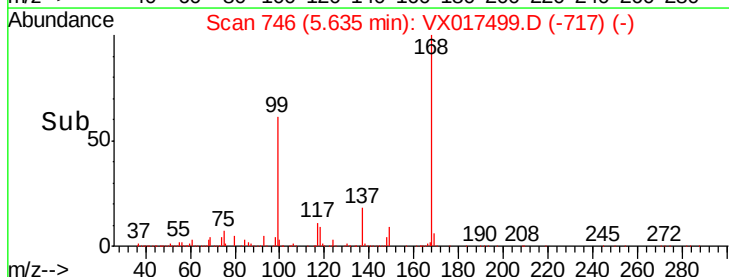
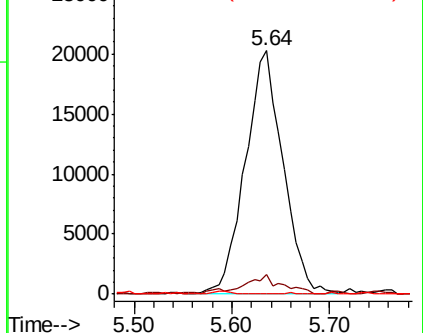
121 0.0 24.3 36.5#

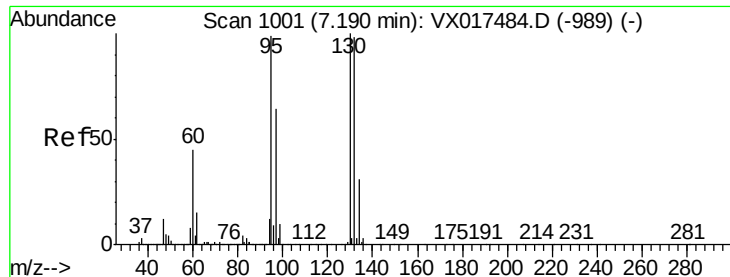


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.393 ug/l

RT: 7.18 min Scan# 999

Delta R.T. -0.01 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

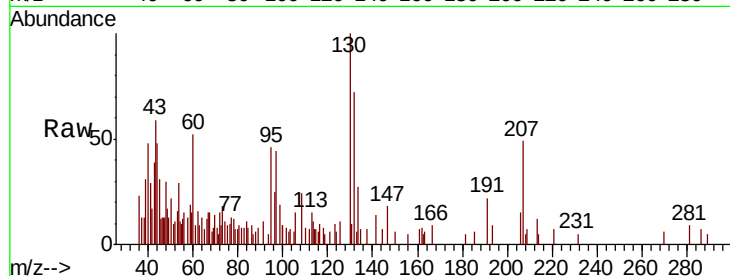
BU-02-072120

Tot Ion:130 Resp: 2784

Ion Ratio Lower Upper

130 100

95 46.3 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

1200

1000

800

600

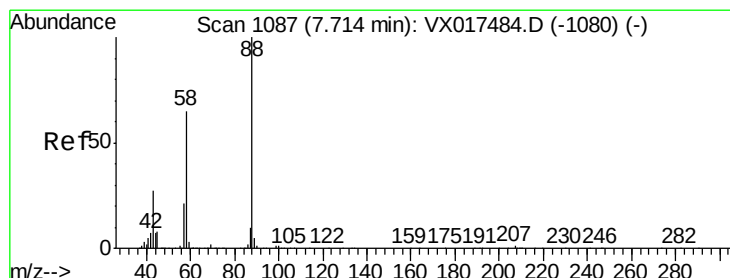
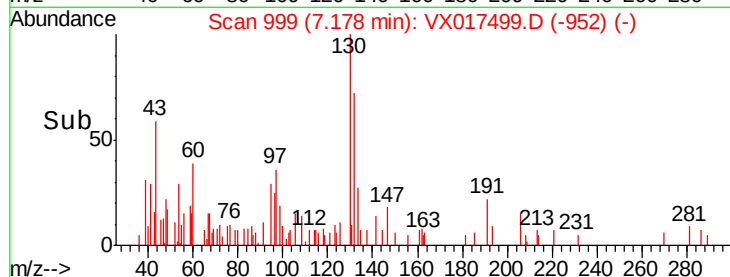
400

200

0

7.10 7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 1.158 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

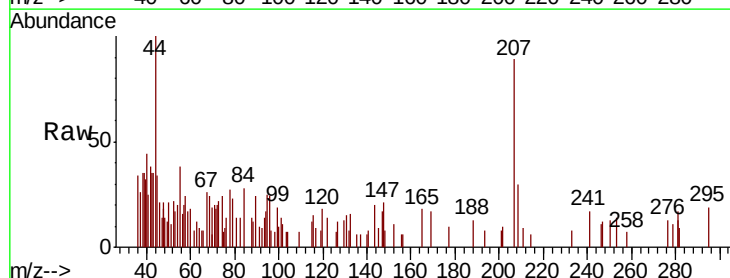
Tgt Ion: 88 Resp: 168

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

58 126.8 58.3 87.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

600

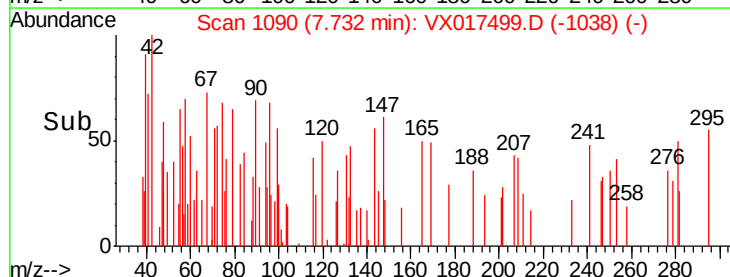
400

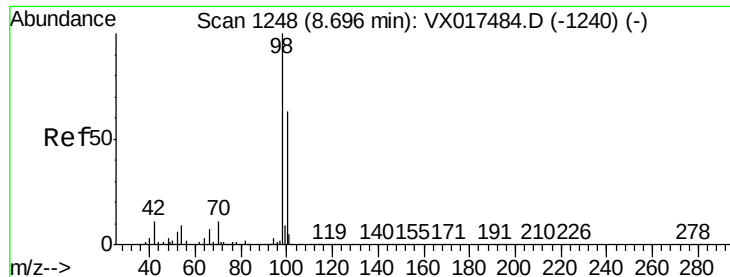
200

0

7.71 7.72 7.73 7.74 7.75

Time-->





#50

Toluene-d8

Concen: 51.694 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

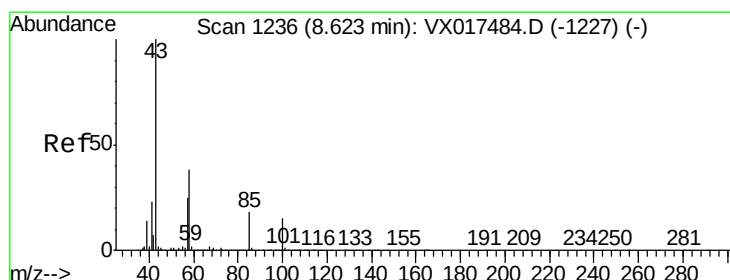
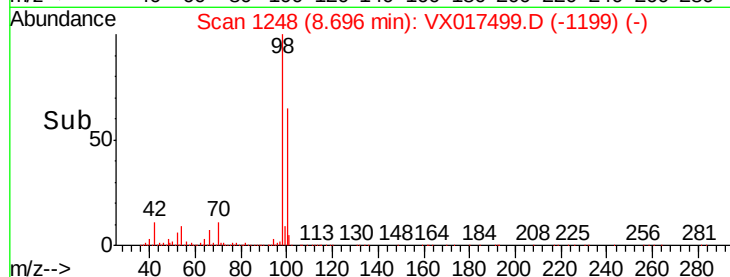
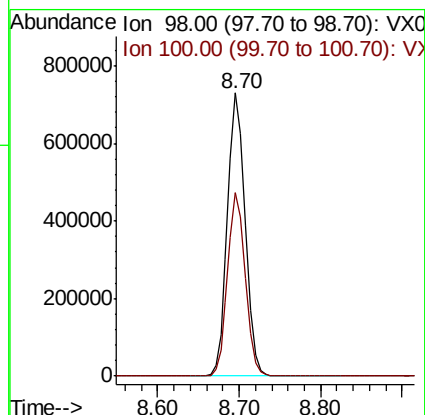
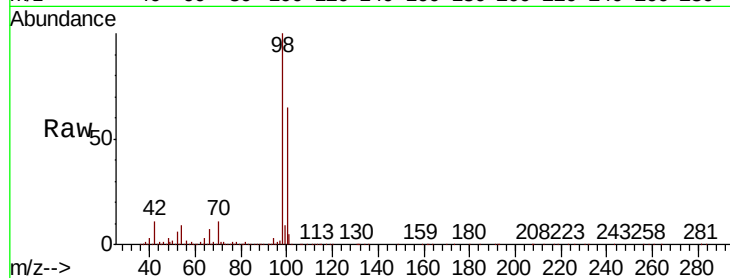
BU-02-072120

Tot Ion: 98 Resp: 1100061

Ion Ratio Lower Upper

98 100

100 64.5 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 0.702 ug/l

RT: 8.62 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VX017499.D

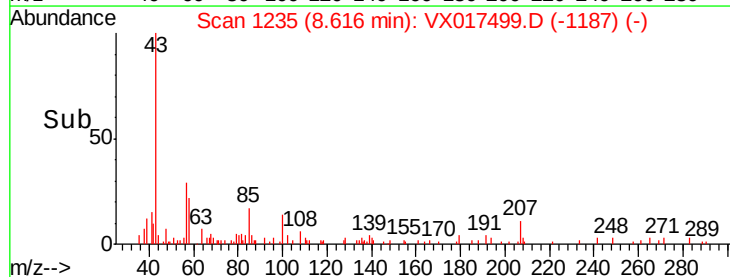
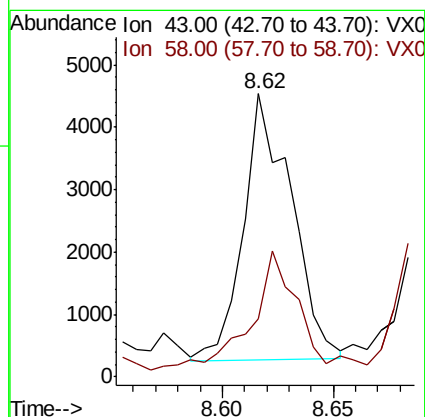
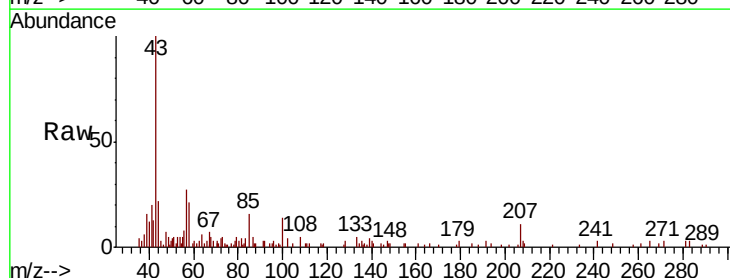
Acq: 23 Jul 2020 17:53

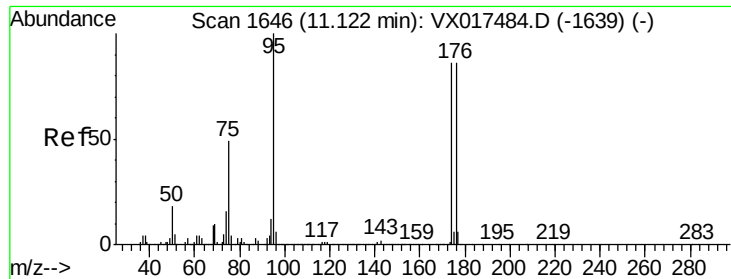
Tgt Ion: 43 Resp: 6401

Ion Ratio Lower Upper

43 100

58 45.4 31.0 46.4





#62

4-Bromofluorobenzene

Concen: 55.514 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

BU-02-072120

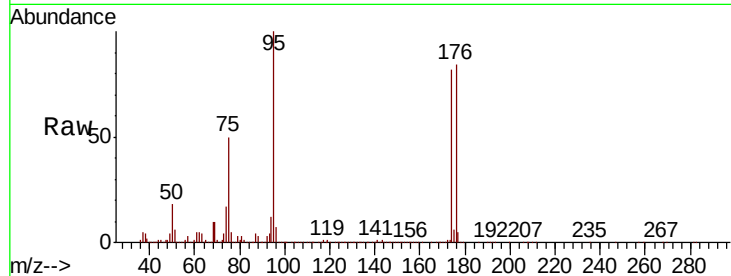
Tot Ion: 95 Resp: 472776

Ion Ratio Lower Upper

95 100

174 82.6 0.0 169.0

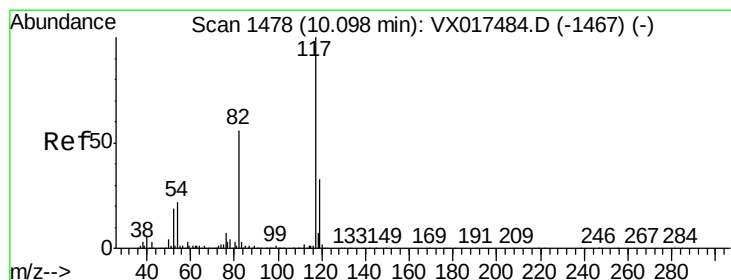
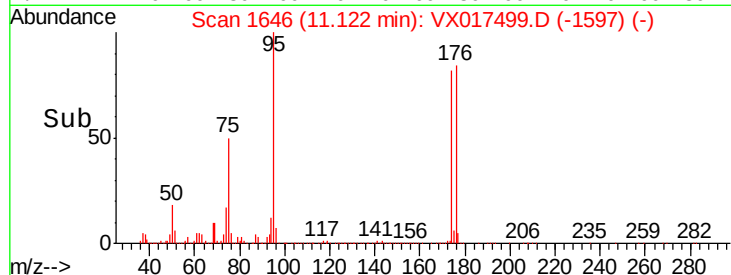
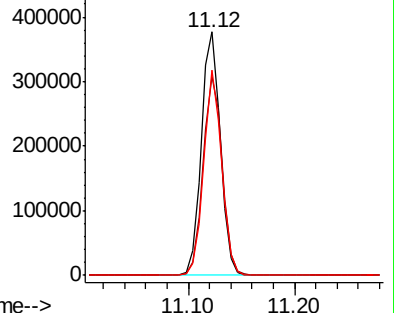
176 79.7 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX017484.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017484.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017484.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

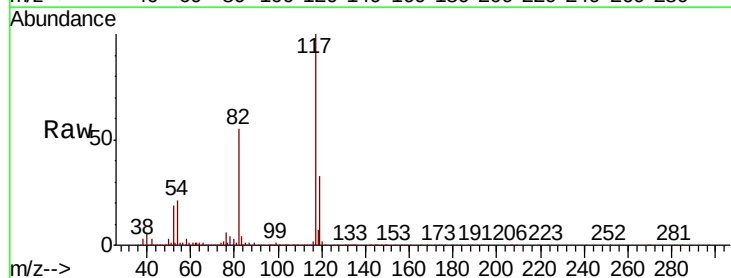
Tgt Ion: 117 Resp: 913582

Ion Ratio Lower Upper

117 100

82 54.5 44.0 66.0

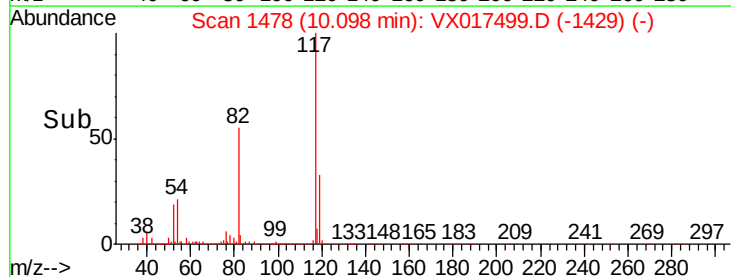
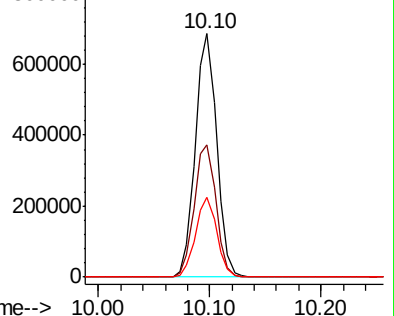
119 32.7 25.4 38.0

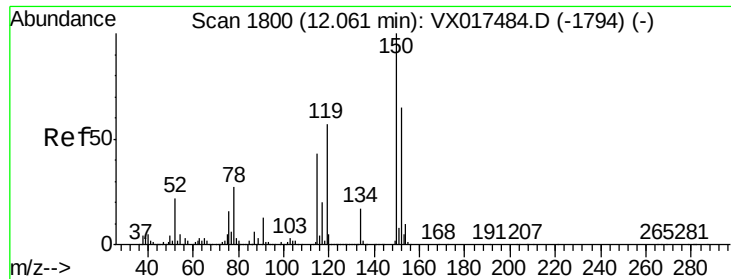


Abundance Ion 116.90 (116.60 to 117.60): VX017484.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX017484.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX017484.D (-1467) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

BU-02-072120

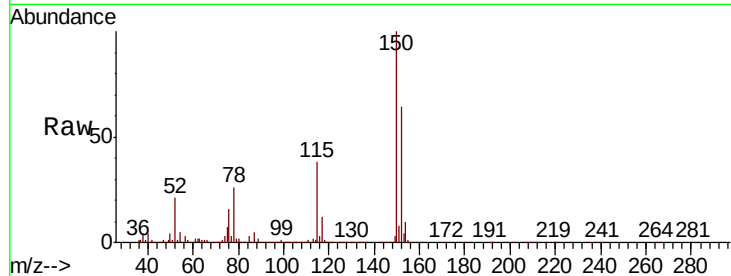
Tot Ion:152 Resp: 484827

Ion Ratio Lower Upper

152 100

115 58.0 65.5 196.6#

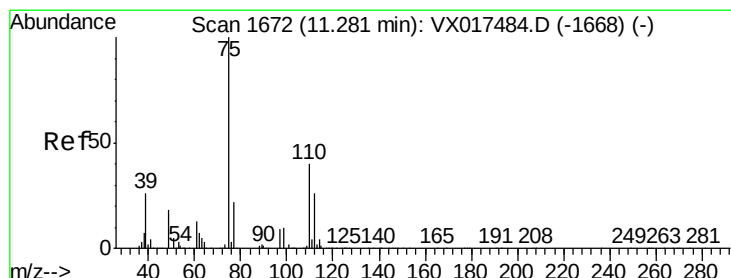
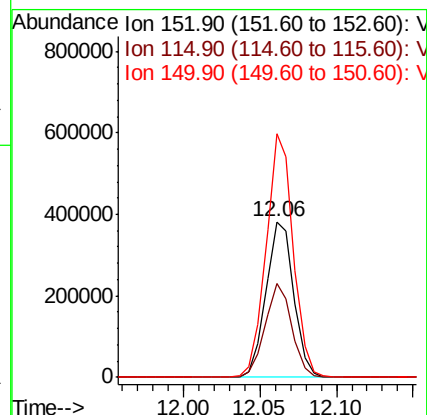
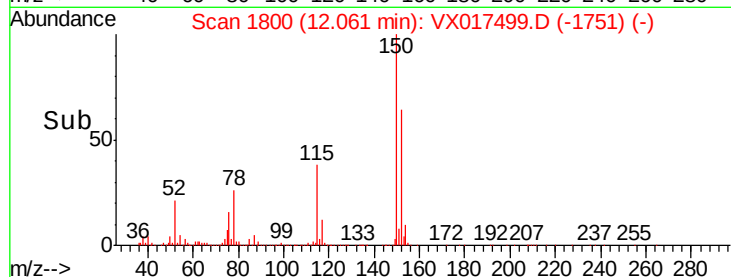
150 152.3 0.0 412.6



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: 23.721 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017499.D

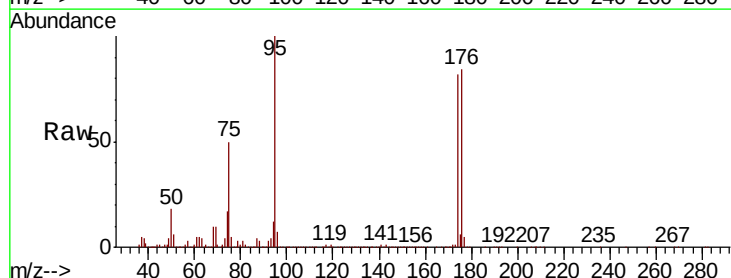
Acq: 23 Jul 2020 17:53

Tgt Ion: 75 Resp: 236577

Ion Ratio Lower Upper

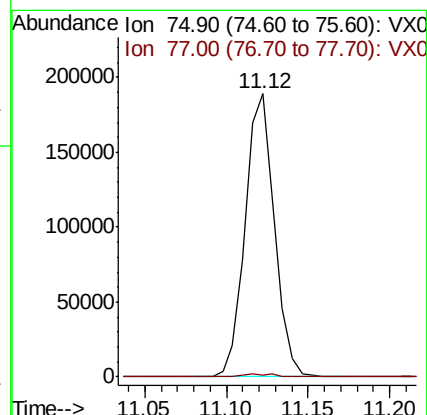
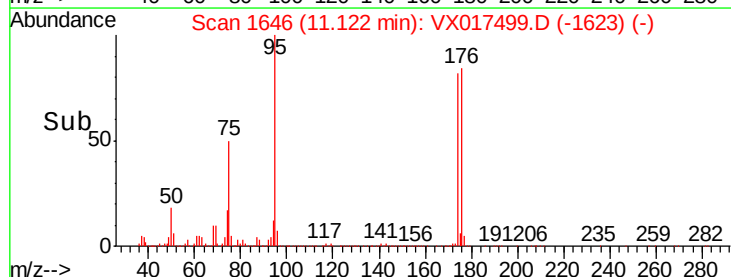
75 100

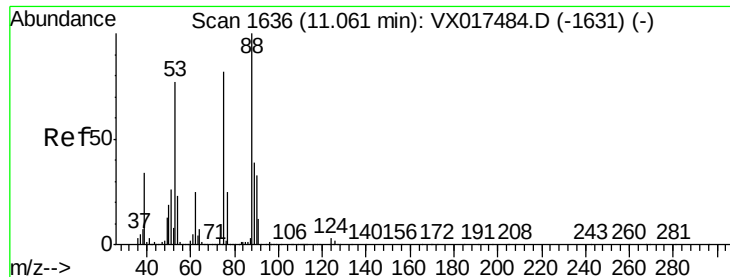
77 1.2 21.8 65.3#



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: 59.773 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

BU-02-072120

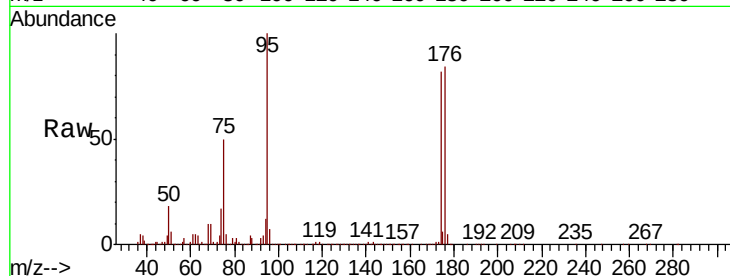
Tot Ion: 75 Resp: 236577

Ion Ratio Lower Upper

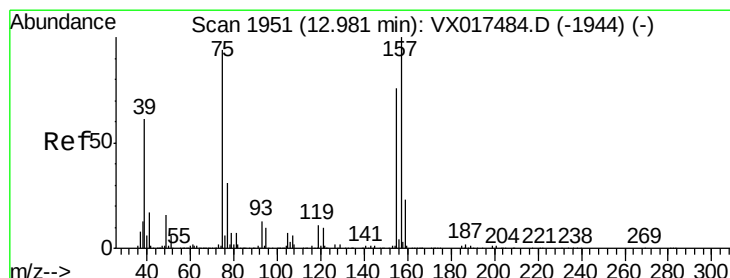
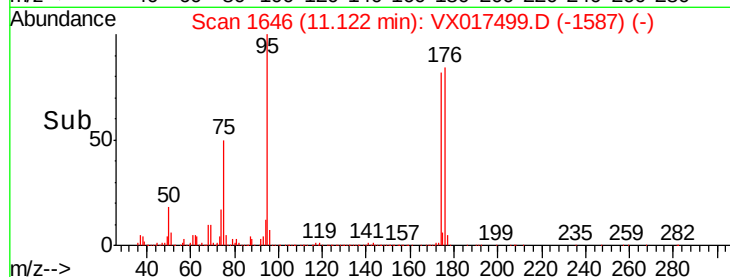
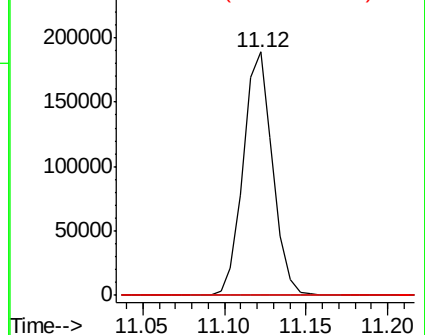
75 100

53 0.2 75.9 113.9#

89 0.2 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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.638 ug/l

RT: 13.01 min Scan# 1956

Delta R.T. 0.03 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

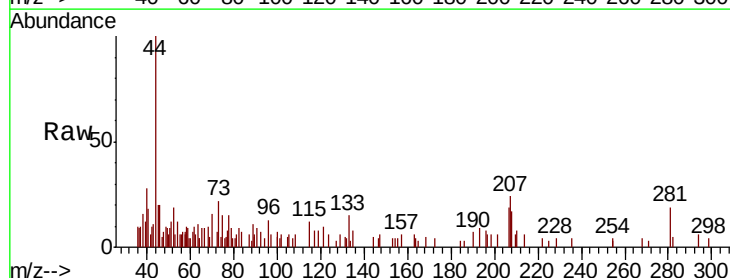
Tgt Ion: 75 Resp: 190

Ion Ratio Lower Upper

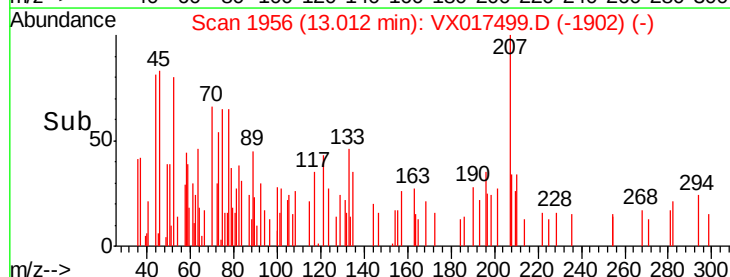
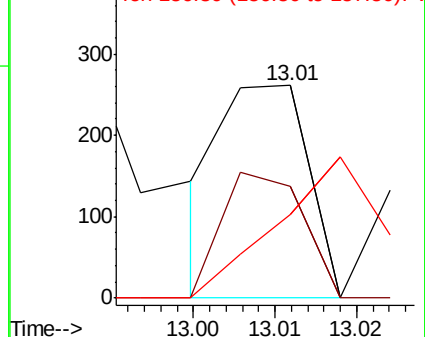
75 100

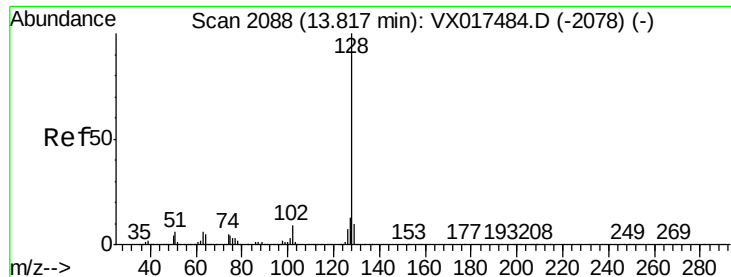
155 56.3 42.3 126.8

157 78.9 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





#95

Naphthalene

Concen: 0.348 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017499.D

Acq: 23 Jul 2020 17:53

Instrument :

MSVOA_X

ClientSampleId :

BU-02-072120

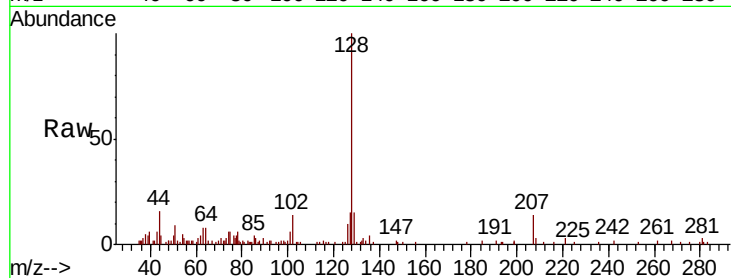
Tot Ion:128 Resp: 11145

Ion Ratio Lower Upper

128 100

127 17.4 10.4 15.6#

129 16.4 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

