

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017599.D
 Acq On : 25 Jul 2020 16:23
 Operator : JC/SP
 Sample : L3383-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 73 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

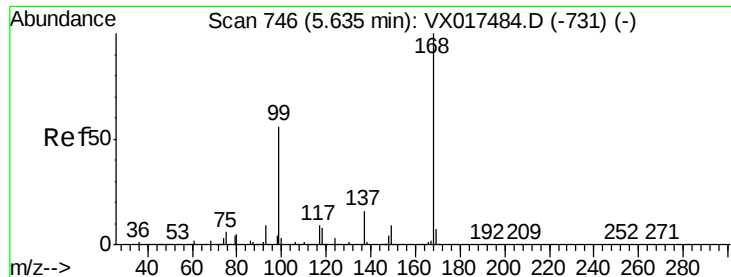
Quant Time: Jul 27 01:15:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	414234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	737433	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	768094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	402943	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	315343	59.26	ug/l	0.00
Spiked Amount			Recovery	=	118.52%	
35) Dibromofluoromethane	5.46	113	246926	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
50) Toluene-d8	8.70	98	901454	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
62) 4-Bromofluorobenzene	11.12	95	390997	54.91	ug/l	0.00
Spiked Amount			Recovery	=	109.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	419	Below Cal	#	42
3) Chloromethane	1.31	50	729	0.508	ug/l #	52
5) Bromomethane	1.64	94	946	Below Cal	#	65
6) Chloroethane	1.72	64	708	Below Cal	#	87
8) Diethyl Ether	2.16	74	1238	Below Cal		57
11) Tert butyl alcohol	3.01	59	3198	2.852	ug/l #	87
13) Acrolein	2.27	56	826	5.097	ug/l #	42
15) Acrylonitrile	3.13	53	667	0.275	ug/l #	54
16) Acetone	2.42	43	31116	13.286	ug/l #	87
18) Methyl Acetate	2.76	43	8058	1.461	ug/l #	88
20) Methylene Chloride	2.84	84	40168	8.029	ug/l	95
25) 2-Butanone	4.65	43	6024	1.811	ug/l	96
29) Tetrahydrofuran	5.08	42	640	0.311	ug/l #	33
36) 1,1-Dichloropropene	5.62	75	30276	4.281	ug/l #	54
38) Carbon Tetrachloride	5.64	117	41752	4.861	ug/l #	18
43) Isopropyl Acetate	6.42	43	149306	11.694	ug/l	99
48) Methyl methacrylate	7.85	41	221550	35.005	ug/l #	46
49) 1,4-Dioxane	7.72	88	124	1.022	ug/l #	22
51) 4-Methyl-2-Pentanone	8.59	43	130403	17.117	ug/l #	52
54) cis-1,3-Dichloropropene	8.59	75	54355	5.956	ug/l #	63
59) 2-Hexanone	9.52	43	133162	23.216	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	204692	24.695	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	204692	62.227	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	211	2.659	ug/l #	44

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

Instrument :

MSVOA_X

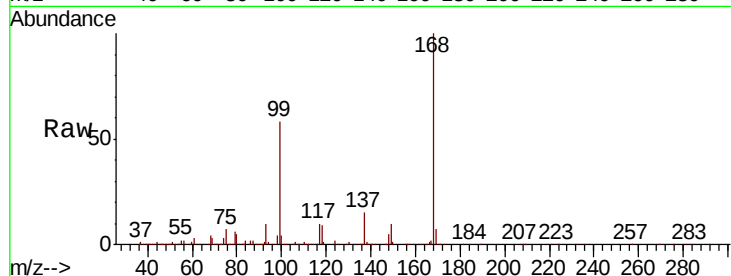
ClientSampleId :

Tot Ion:168 Resp: 414234

Ion Ratio Lower Upper

168 100

99 58.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

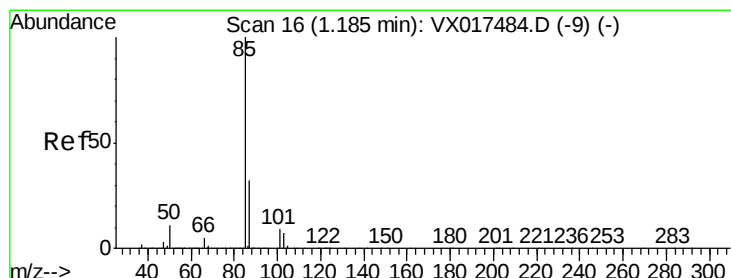
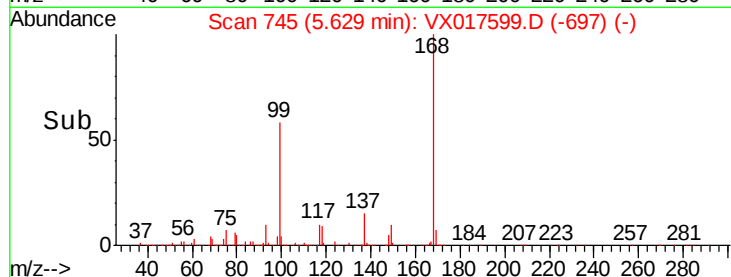
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017599.D

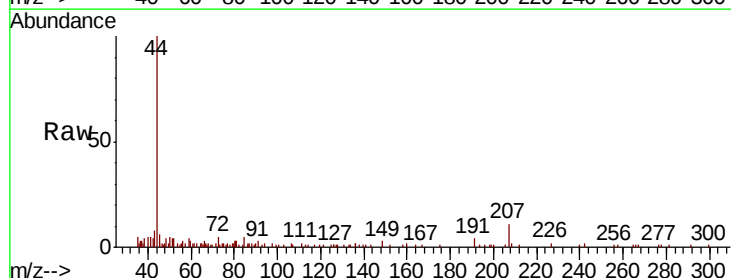
Acq: 25 Jul 2020 16:23

Tgt Ion: 85 Resp: 419

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

1.18

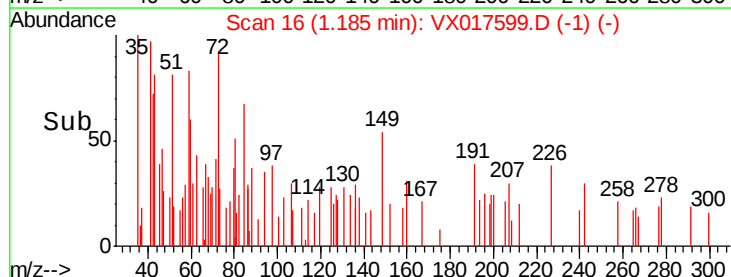
300

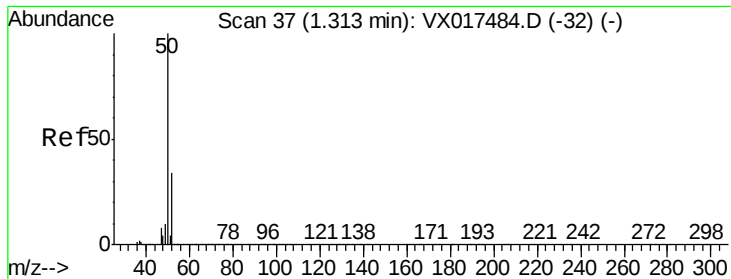
200

100

0

Time-->





#3

Chloromethane

Concen: 0.508 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

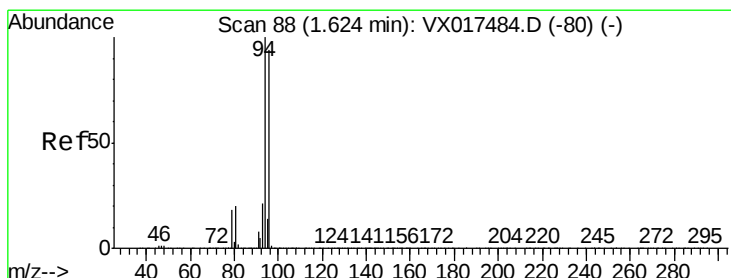
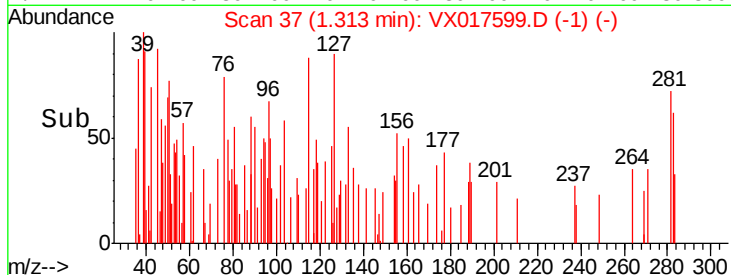
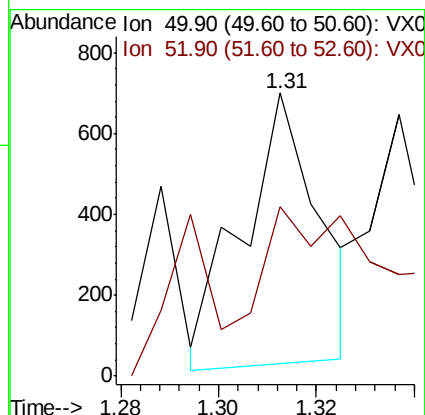
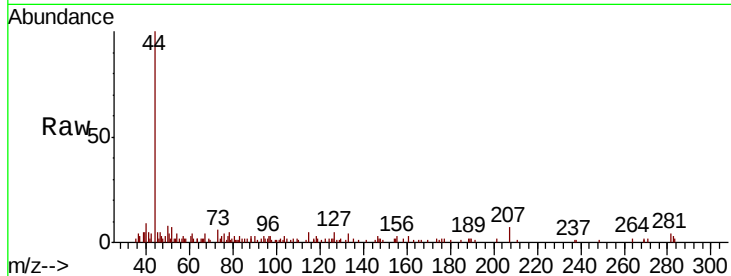
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 729

Ion Ratio Lower Upper

50 100

52 5.2 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017599.D

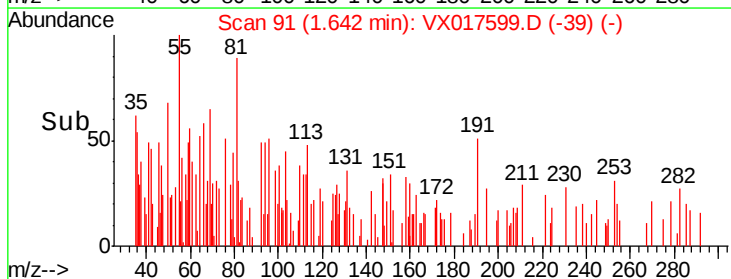
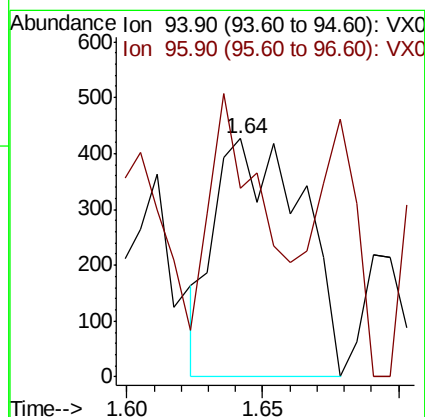
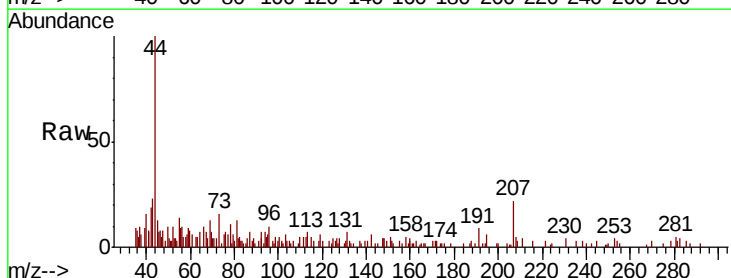
Acq: 25 Jul 2020 16:23

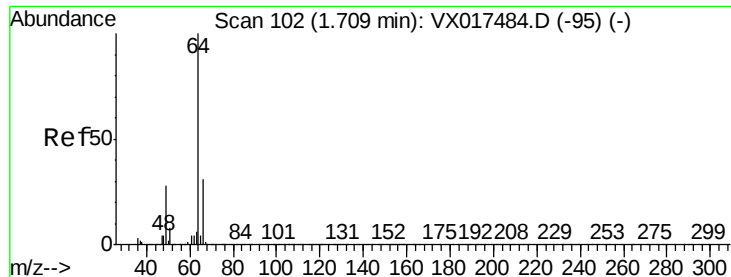
Tgt Ion: 94 Resp: 946

Ion Ratio Lower Upper

94 100

96 59.4 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

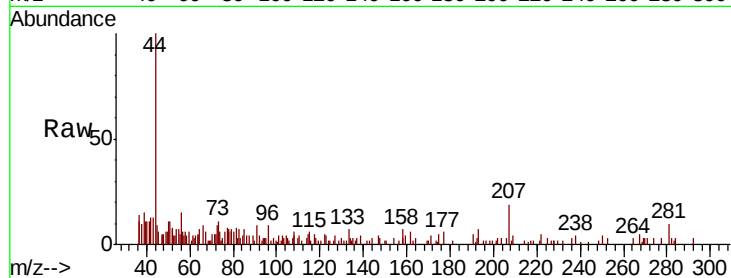
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 64 Resp: 708

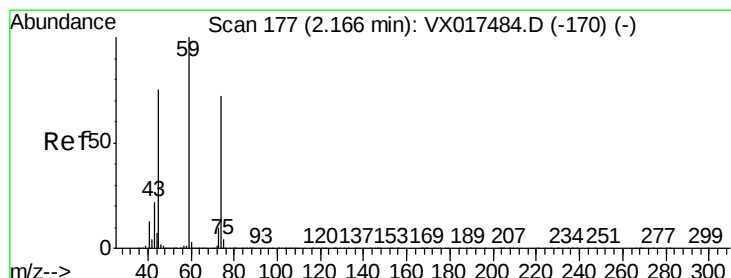
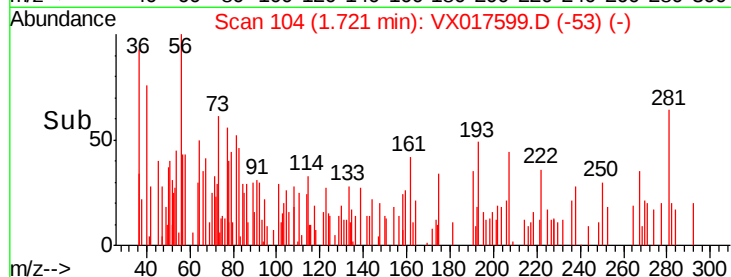
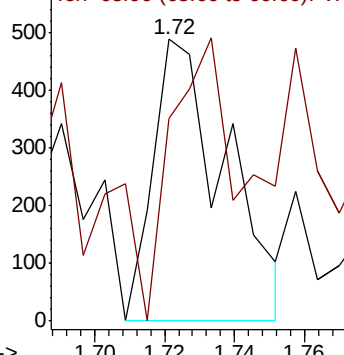
Ion Ratio Lower Upper

64 100

66 23.9 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: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX017599.D

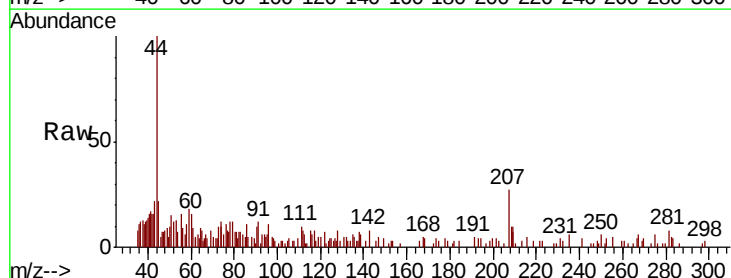
Acq: 25 Jul 2020 16:23

Tgt Ion: 74 Resp: 1238

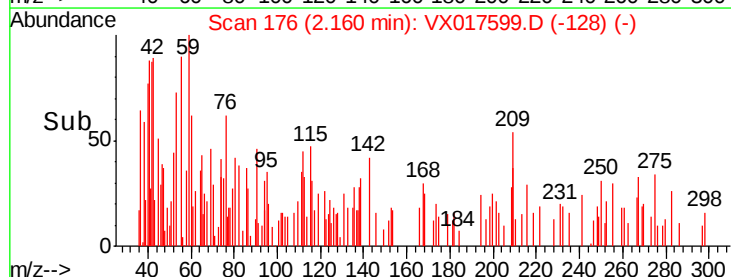
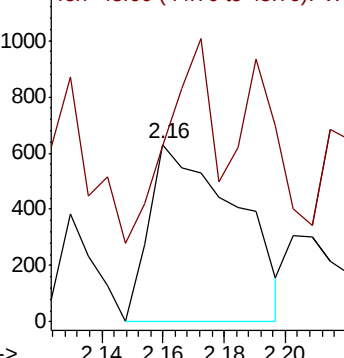
Ion Ratio Lower Upper

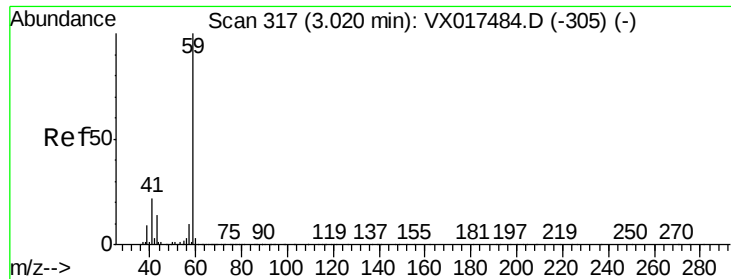
74 100

45 58.5 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0
Ion 45.00 (44.70 to 45.70): VX0

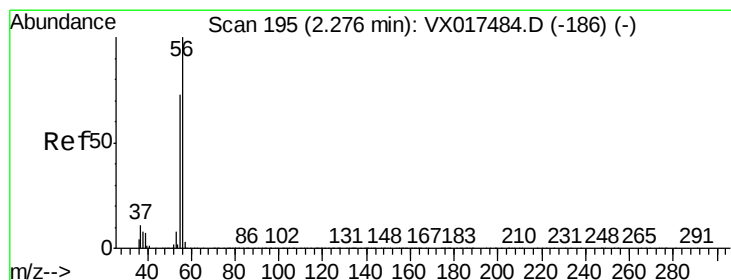
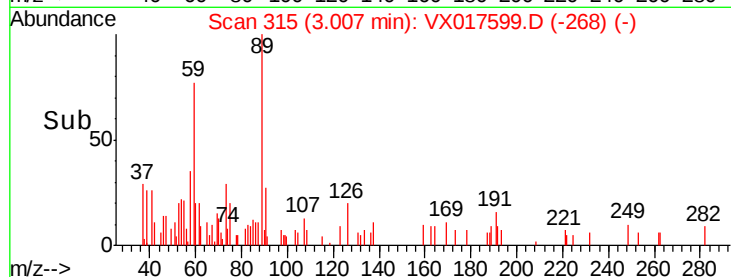
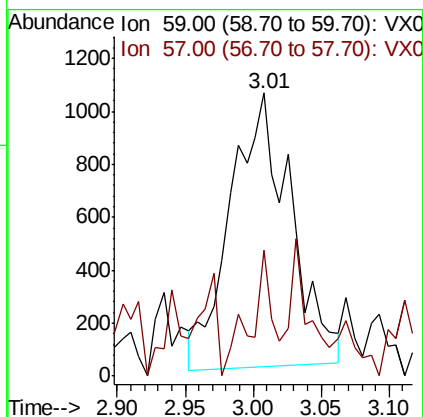
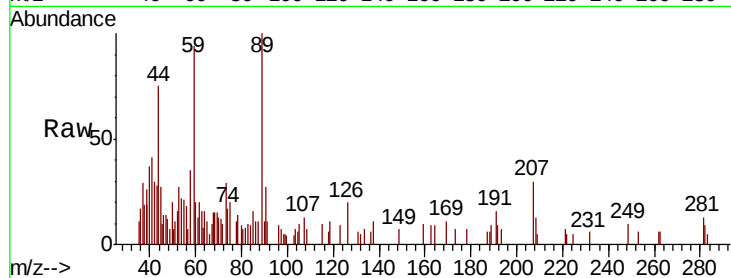




#11
Tert butyl alcohol
Concen: 2.852 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017599.D
Acq: 25 Jul 2020 16:23

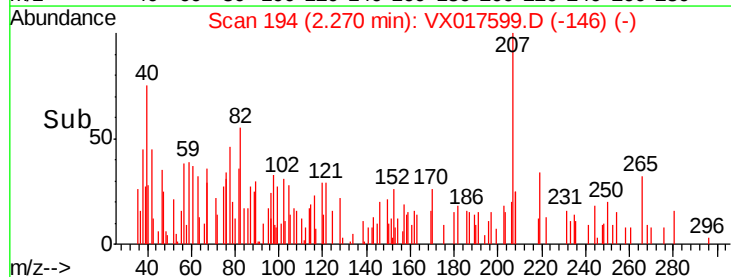
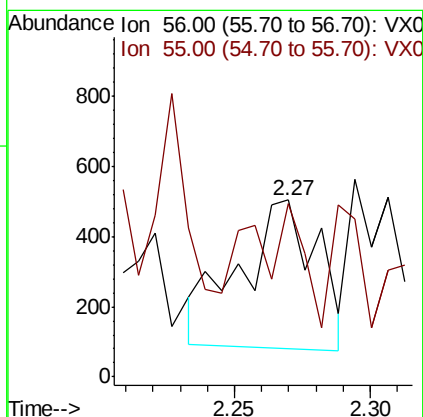
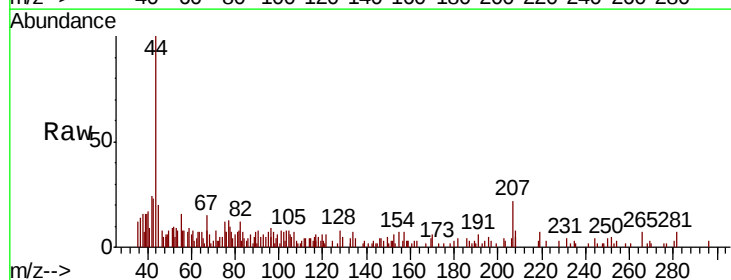
Instrument :
MSVOA_X
ClientSampled :

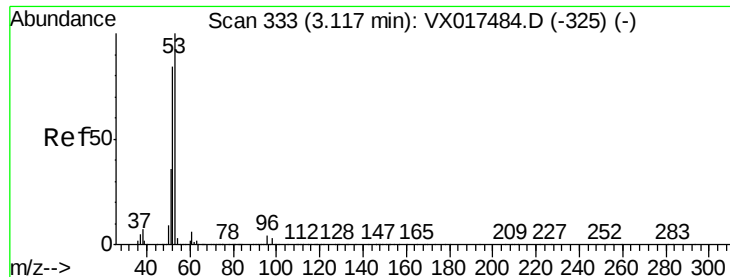
Tot Ion: 59 Resp: 3198
Ion Ratio Lower Upper
59 100
57 15.4 8.6 12.8#



#13
Acrolein
Concen: 5.097 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017599.D
Acq: 25 Jul 2020 16:23

Tgt Ion: 56 Resp: 826
Ion Ratio Lower Upper
56 100
55 23.7 57.4 86.2#





#15

Acrylonitrile

Concen: 0.275 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampled :

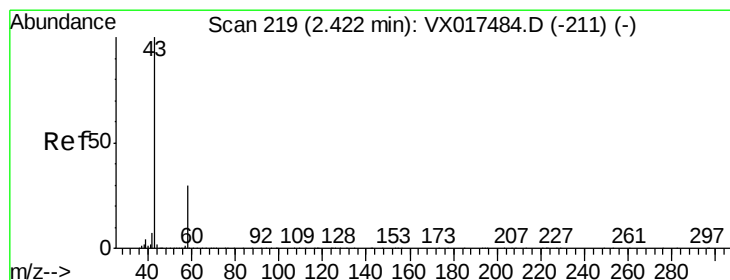
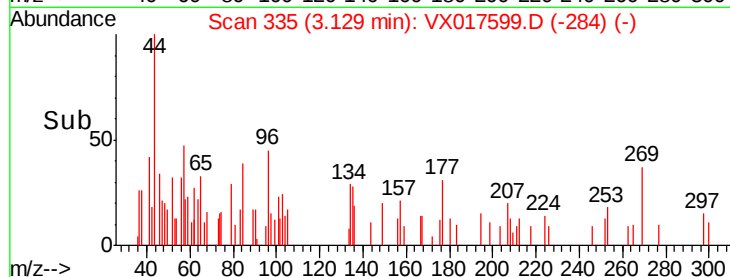
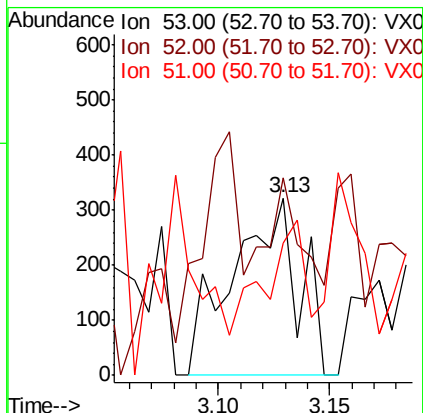
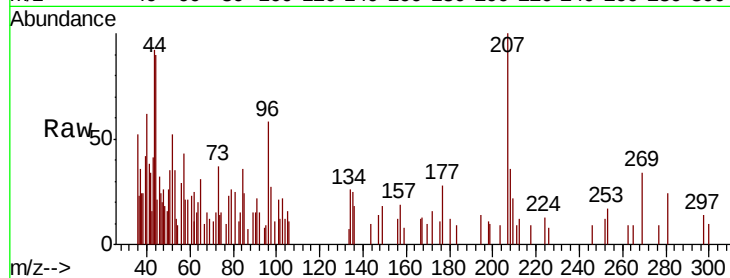
Tot Ion: 53 Resp: 667

Ion Ratio Lower Upper

53 100

52 48.1 66.6 99.8#

51 0.0 29.4 44.2#



#16

Acetone

Concen: 13.286 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017599.D

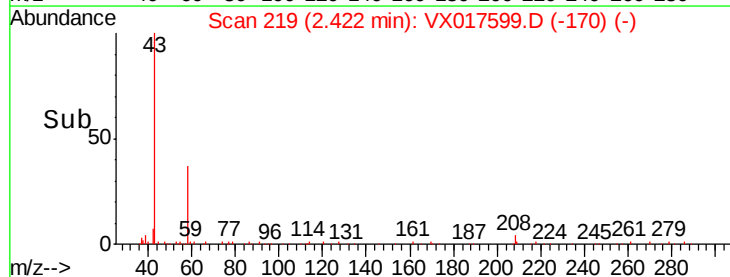
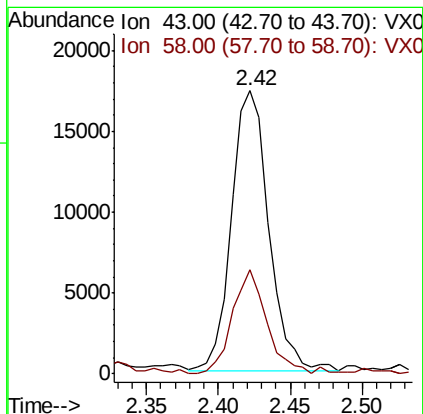
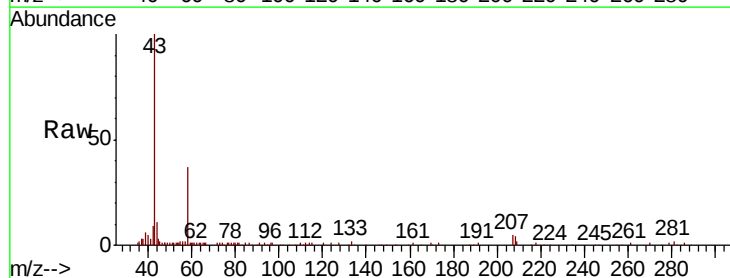
Acq: 25 Jul 2020 16:23

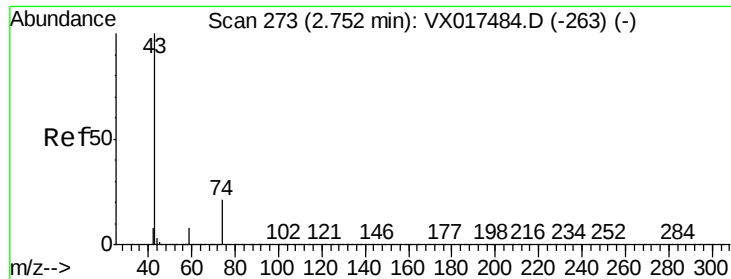
Tgt Ion: 43 Resp: 31116

Ion Ratio Lower Upper

43 100

58 37.4 24.2 36.4#

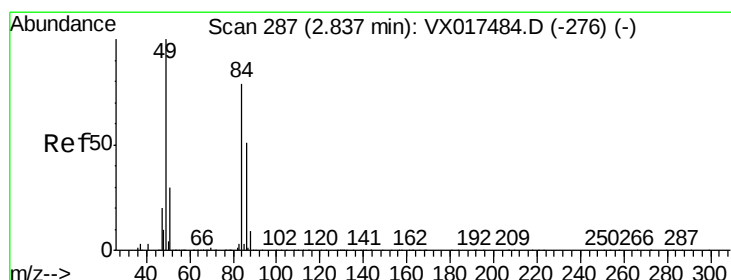
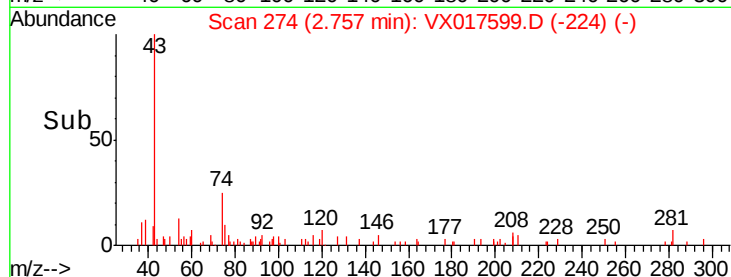
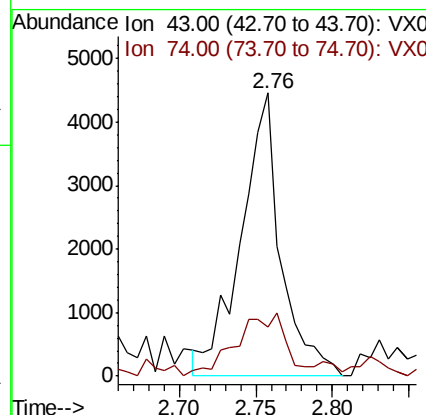
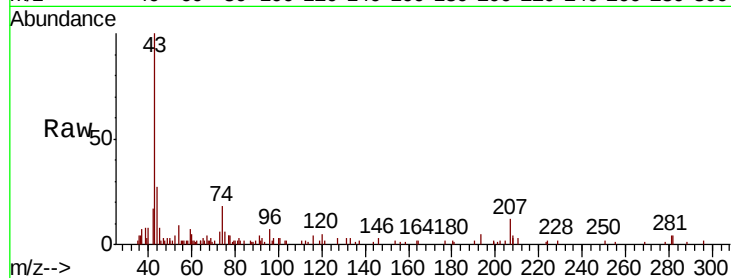




#18
Methyl Acetate
Concen: 1.461 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX017599.D
Acq: 25 Jul 2020 16:23

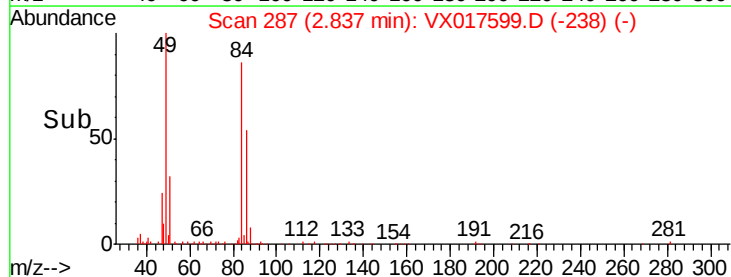
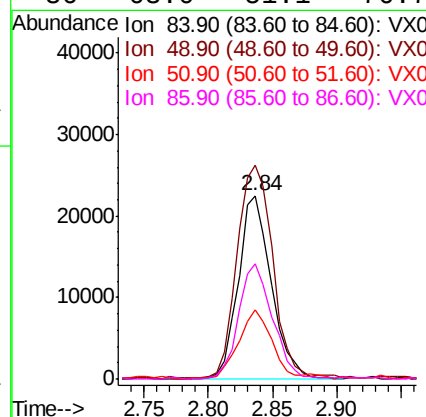
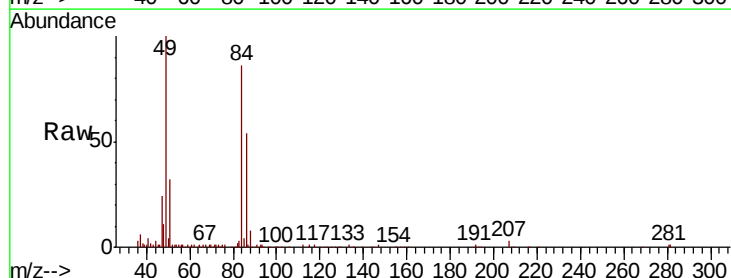
Instrument :
MSVOA_X
ClientSampleId :

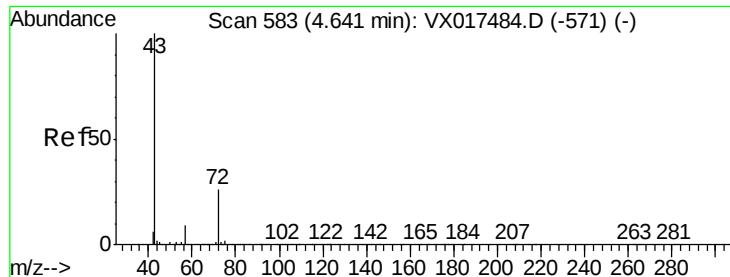
Tot Ion: 43 Resp: 8058
Ion Ratio Lower Upper
43 100
74 27.7 17.5 26.3#



#20
Methylene Chloride
Concen: 8.029 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017599.D
Acq: 25 Jul 2020 16:23

Tgt Ion: 84 Resp: 40168
Ion Ratio Lower Upper
84 100
49 115.7 100.3 150.5
51 37.1 30.5 45.7
86 63.0 51.1 76.7





#25

2-Butanone

Concen: 1.811 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

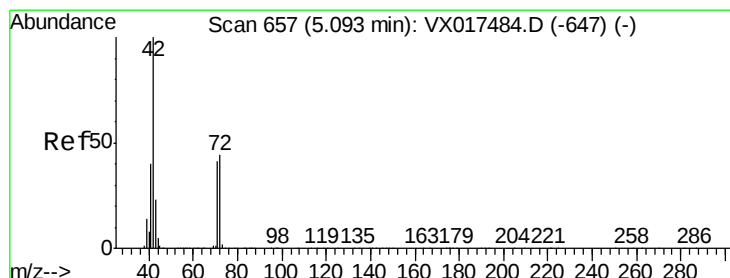
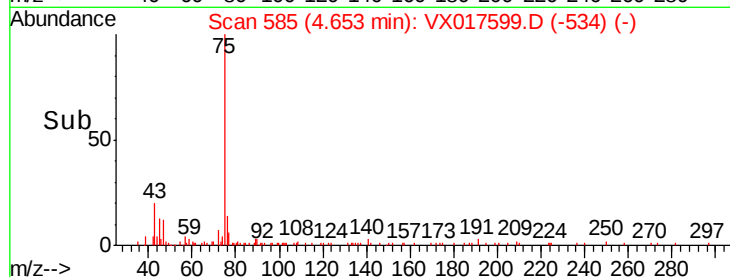
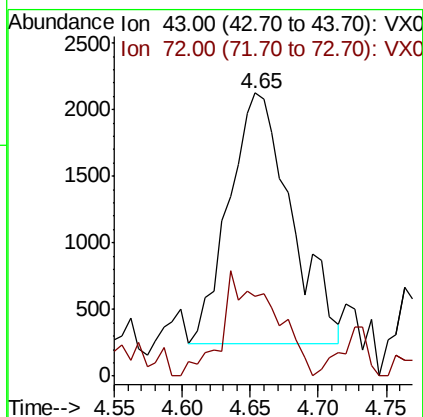
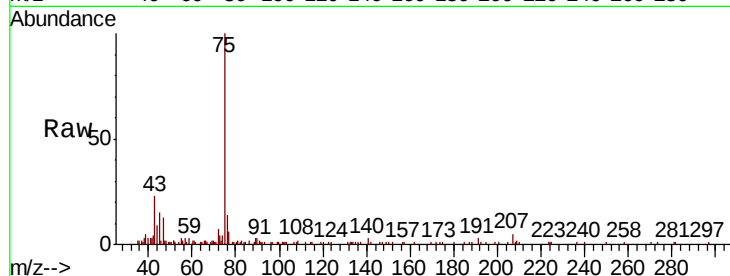
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 6024

Ion Ratio Lower Upper

43 100

72 25.8 19.0 28.4



#29

Tetrahydrofuran

Concen: 0.311 ug/l

RT: 5.08 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

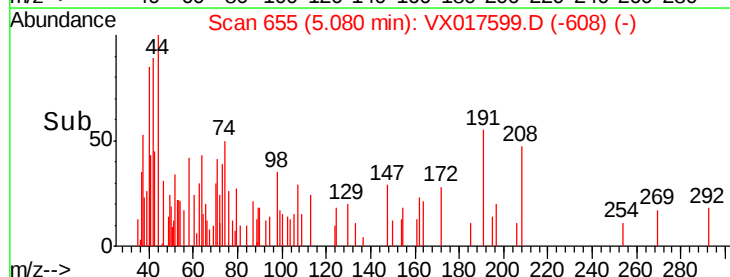
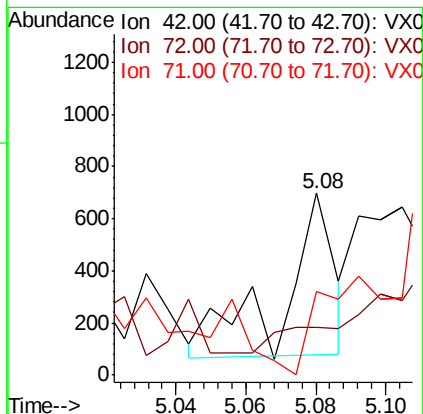
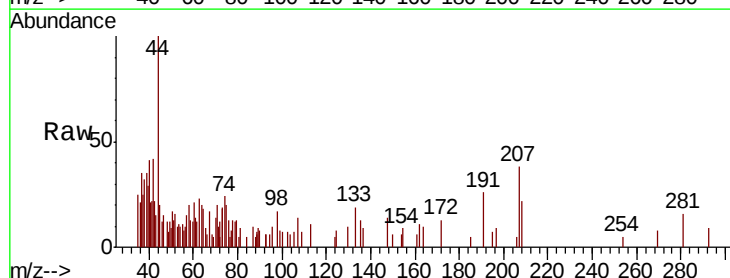
Tgt Ion: 42 Resp: 640

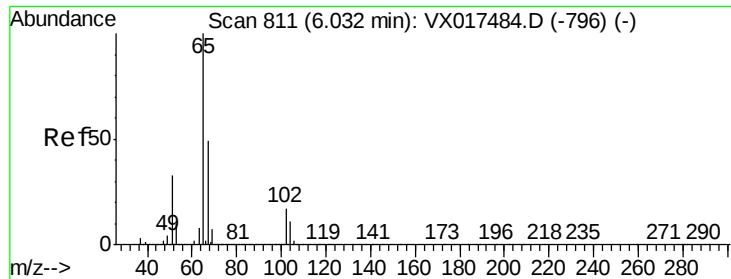
Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 0.0 33.0 49.4#

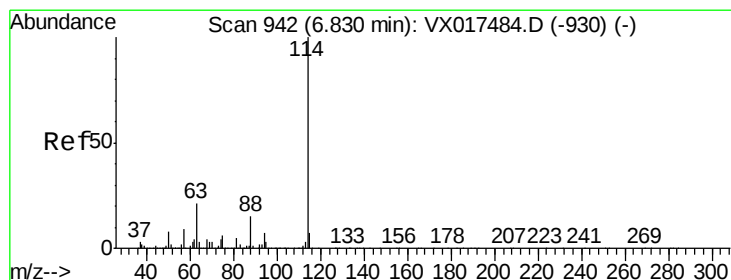
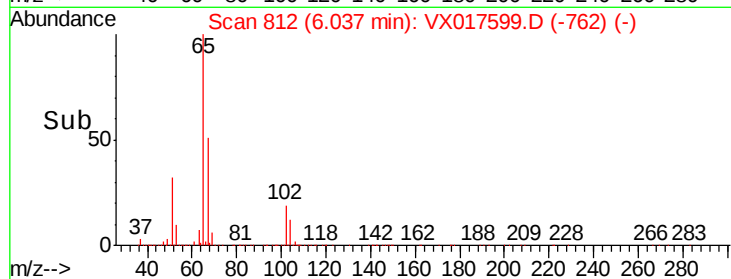
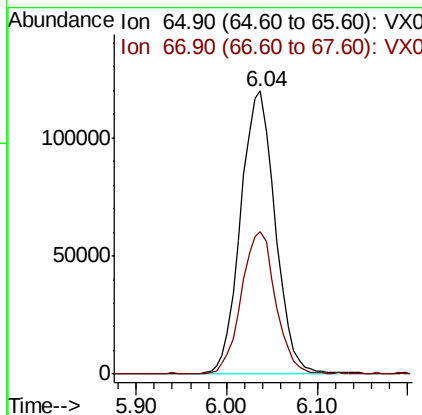
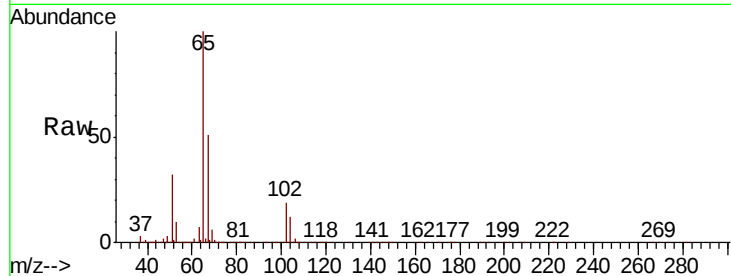




#33
 1,2-Dichloroethane-d4
 Concen: 59.264 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017599.D
 Acq: 25 Jul 2020 16:23

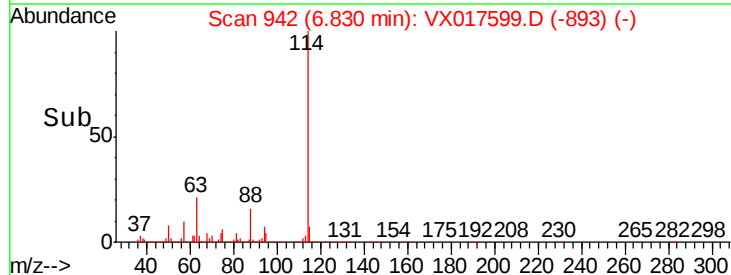
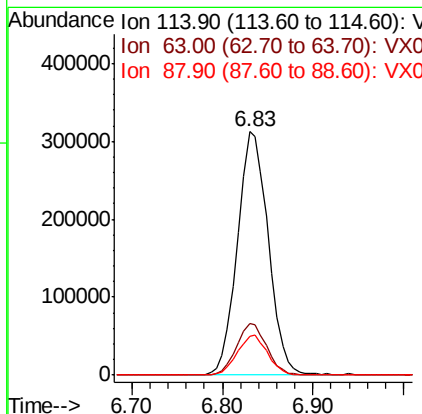
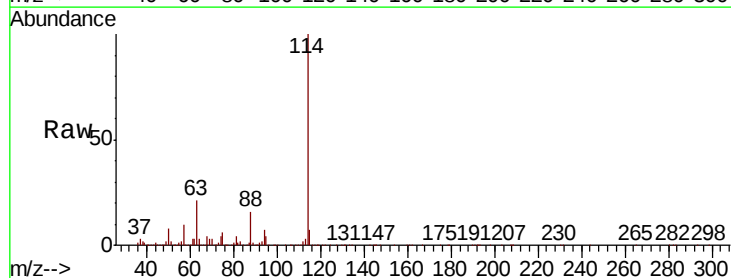
Instrument :
 MSVOA_X
 ClientSampled :

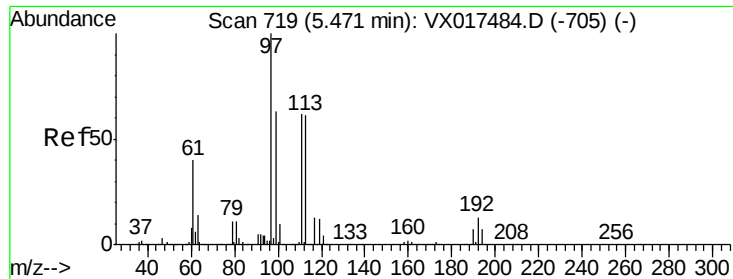
Tot Ion: 65 Resp: 315343
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017599.D
 Acq: 25 Jul 2020 16:23

Tgt Ion: 114 Resp: 737433
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.6
 88 15.9 0.0 33.4

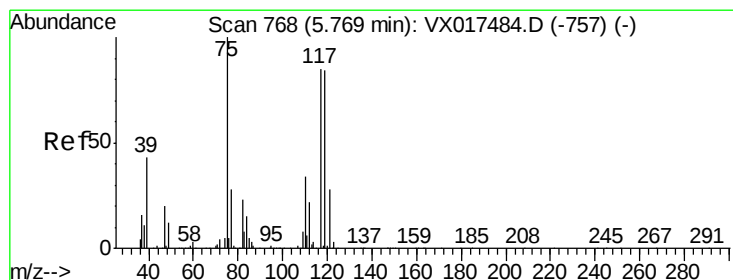
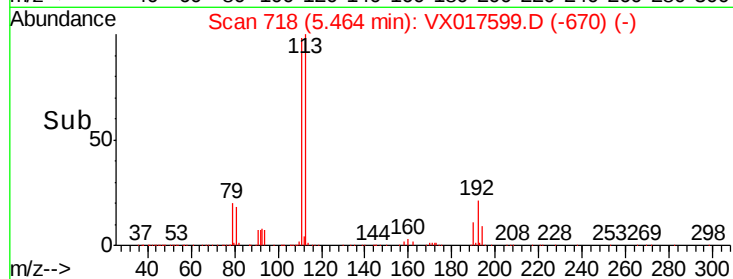
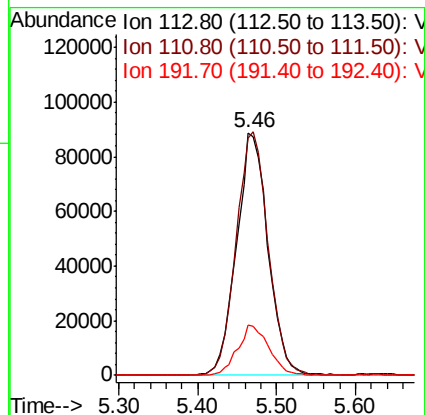
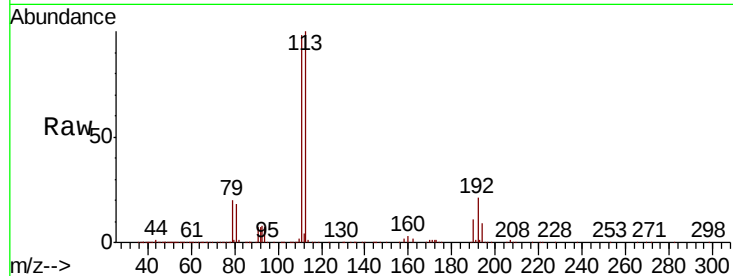




#35
 Dibromofluoromethane
 Concen: 50.066 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX017599.D
 Acq: 25 Jul 2020 16:23

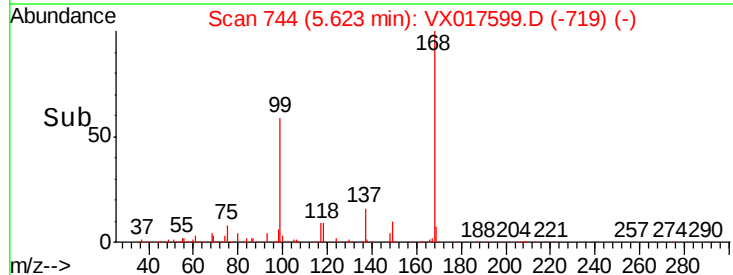
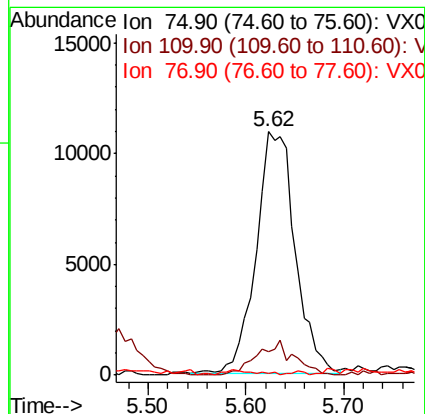
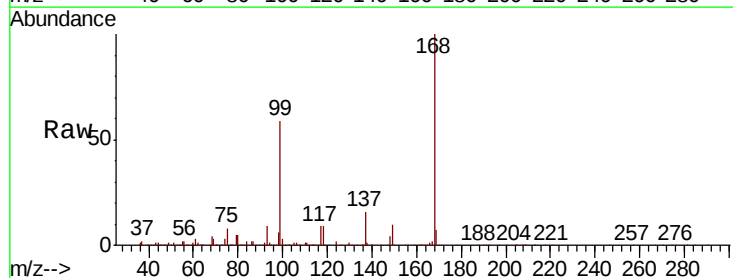
Instrument :
 MSVOA_X
 ClientSampleId :

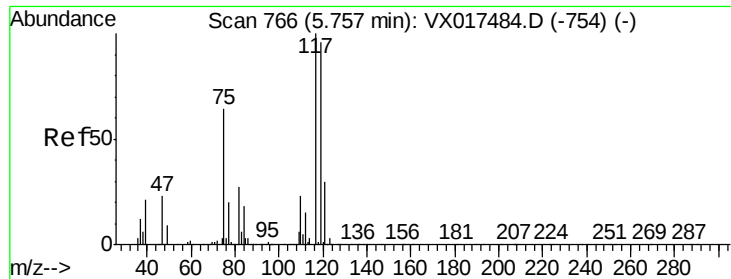
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.7	121.1
192	20.7	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 4.281 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX017599.D
 Acq: 25 Jul 2020 16:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	13.4	18.1	54.3#
77	0.4	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 4.861 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

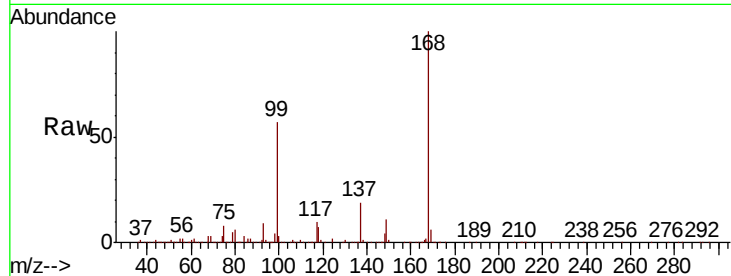
Tot Ion:117 Resp: 41752

Ion Ratio Lower Upper

117 100

119 5.9 75.4 113.0#

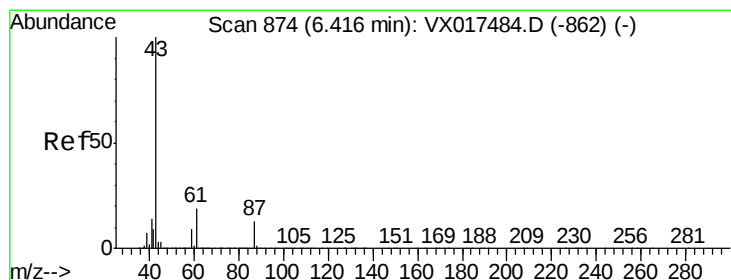
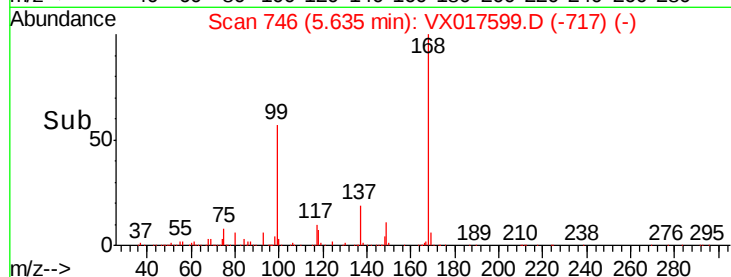
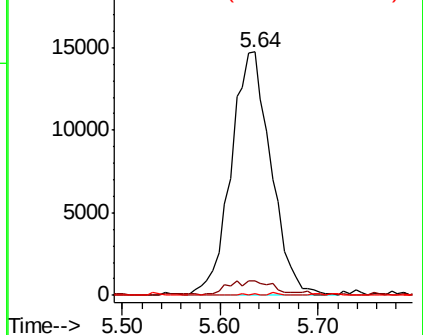
121 0.6 24.3 36.5#



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



#43

Isopropyl Acetate

Concen: 11.694 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

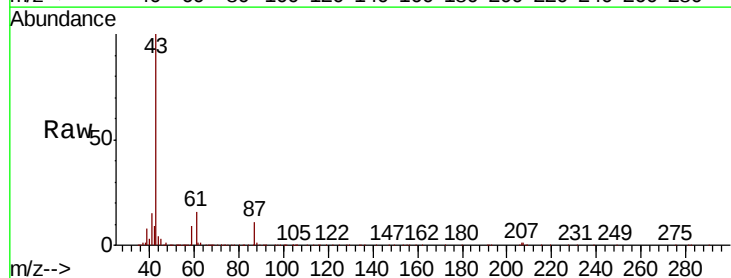
Tgt Ion: 43 Resp: 149306

Ion Ratio Lower Upper

43 100

61 18.7 15.5 23.3

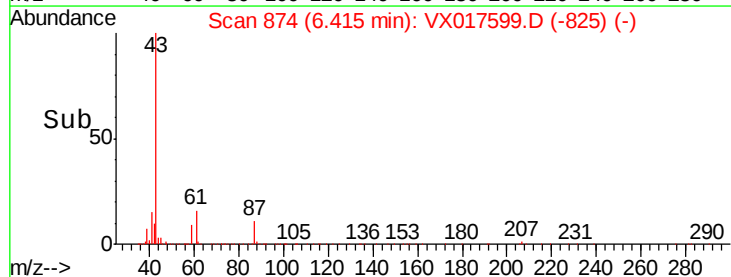
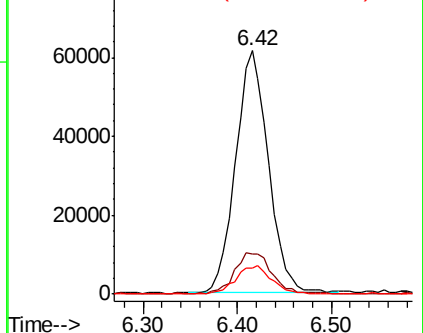
87 12.9 10.5 15.7

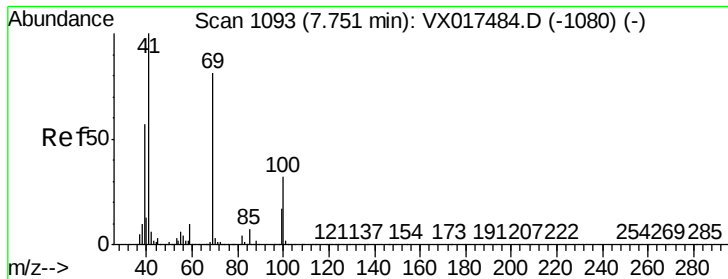


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

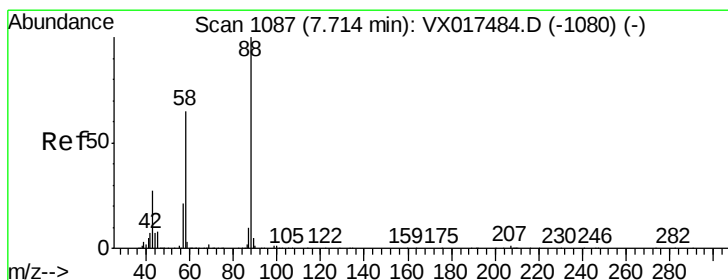
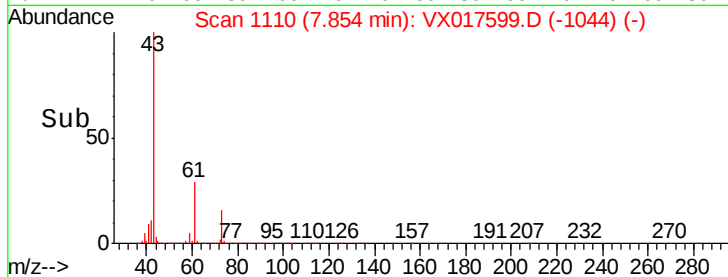
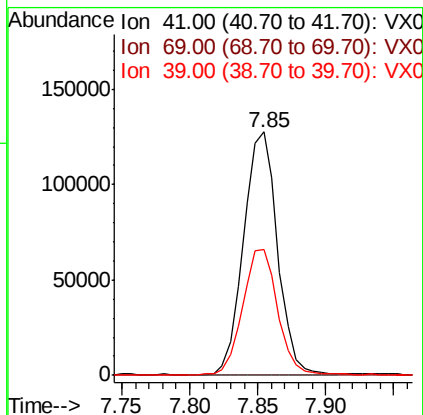
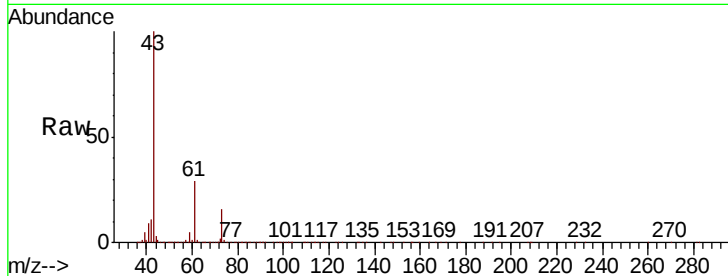




#48
Methyl methacrylate
Concen: 35.005 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.10 min
Lab File: VX017599.D
Acq: 25 Jul 2020 16:23

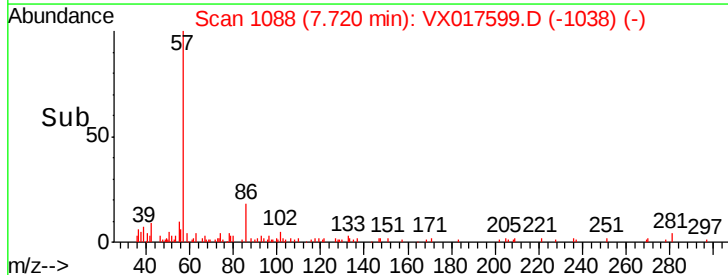
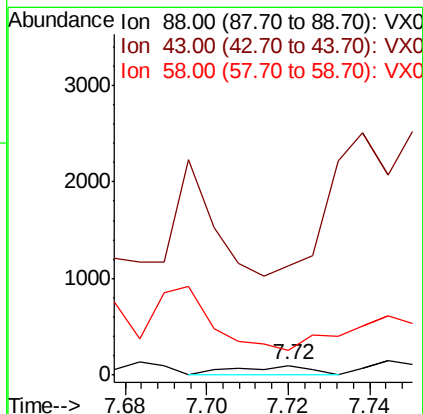
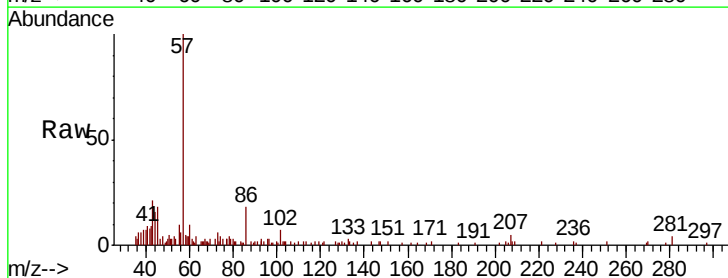
Instrument :
MSVOA_X
ClientSampleId :

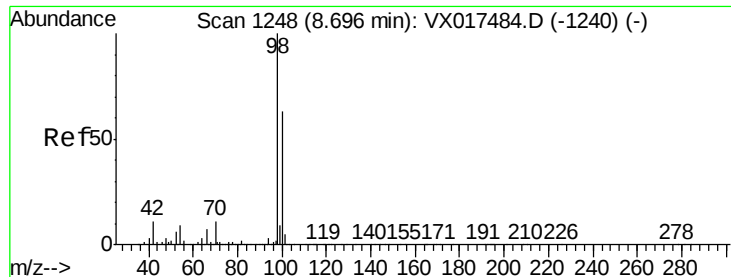
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.2	63.1	94.7#
39	53.9	45.1	67.7



#49
1,4-Dioxane
Concen: 1.022 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX017599.D
Acq: 25 Jul 2020 16:23

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.6#
58	0.0	58.3	87.5#





#50

Toluene-d8

Concen: 50.666 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

Instrument :

MSVOA_X

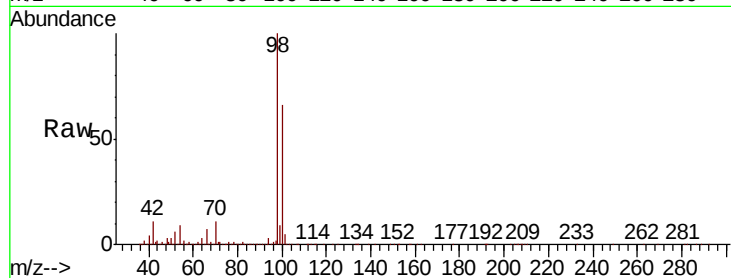
ClientSampleId :

Tot Ion: 98 Resp: 901454

Ion Ratio Lower Upper

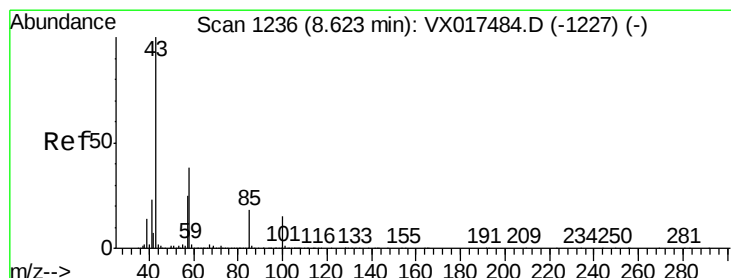
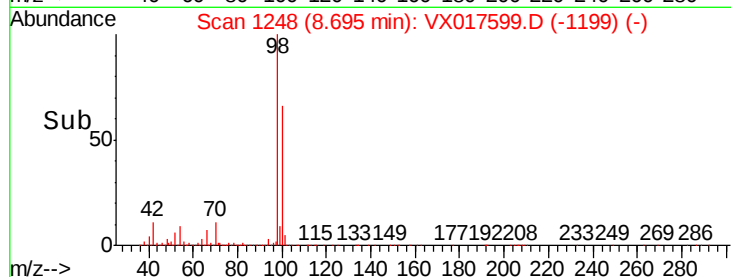
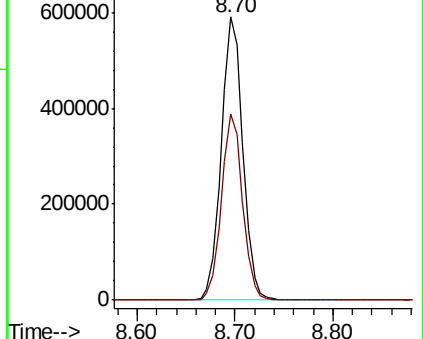
98 100

100 64.6 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 17.117 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017599.D

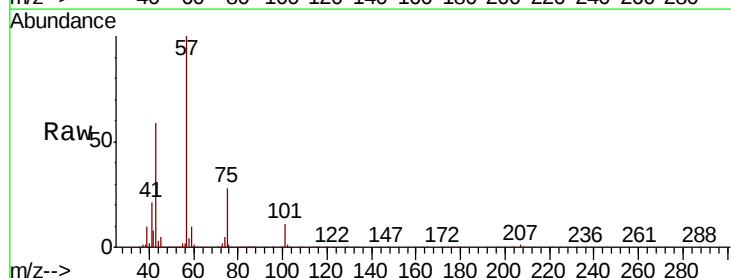
Acq: 25 Jul 2020 16:23

Tgt Ion: 43 Resp: 130403

Ion Ratio Lower Upper

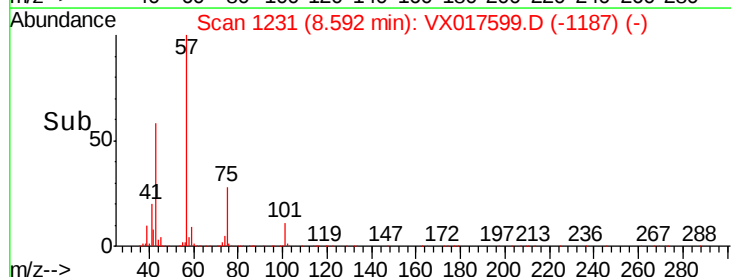
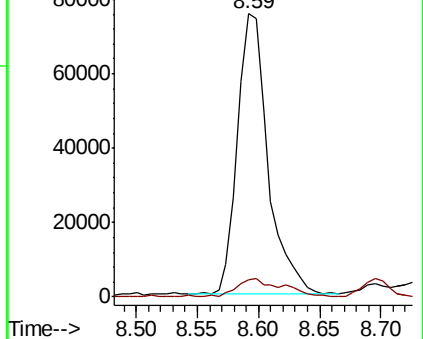
43 100

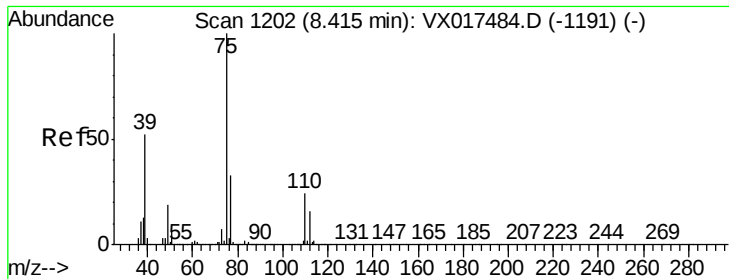
58 9.5 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



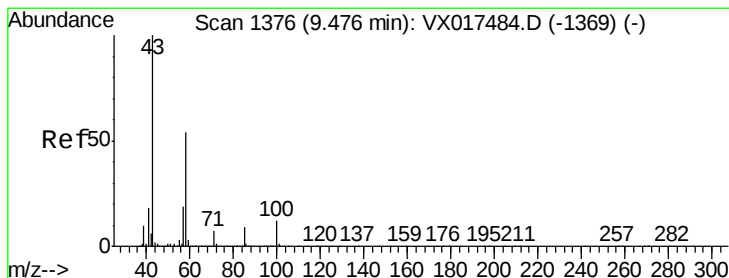
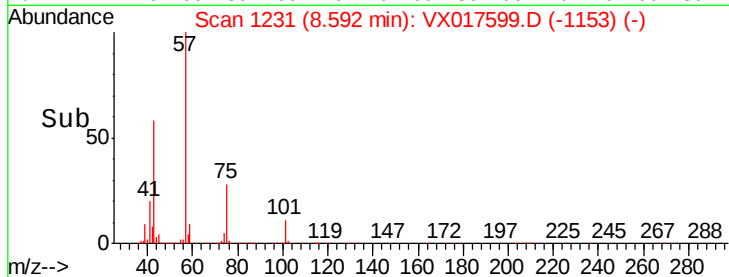
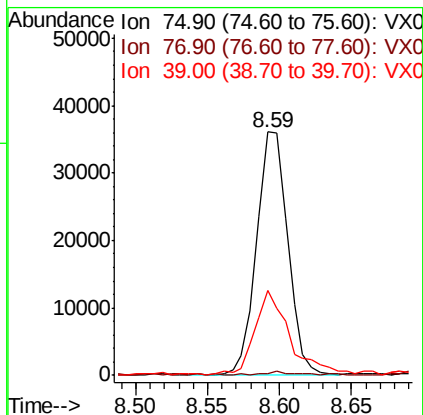
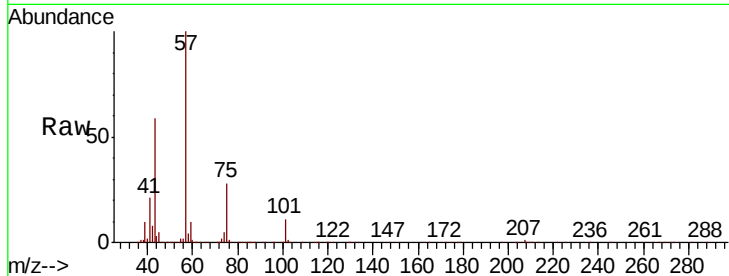


#54

cis-1,3-Dichloropropene
 Concen: 5.956 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX017599.D
 Acq: 25 Jul 2020 16:23

Instrument :
 MSVOA_X
 ClientSampleId :

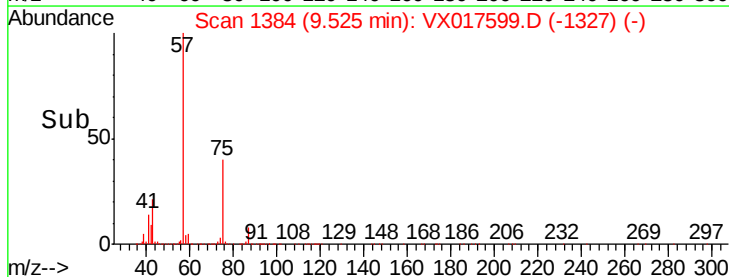
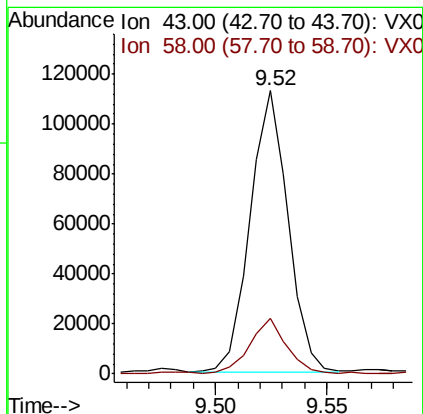
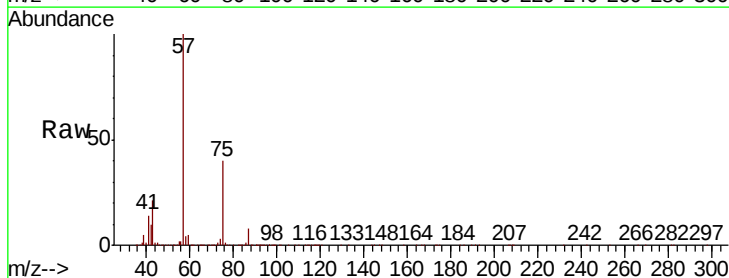
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.9	25.5	38.3#
39	34.2	41.8	62.8#

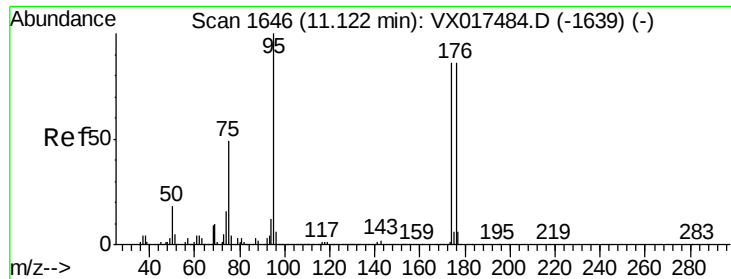


#59

2-Hexanone
 Concen: 23.216 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX017599.D
 Acq: 25 Jul 2020 16:23

Tgt Ion	Ratio	Lower	Upper
43	100		
58	18.9	26.6	79.8#





#62

4-Bromofluorobenzene

Concen: 54.912 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

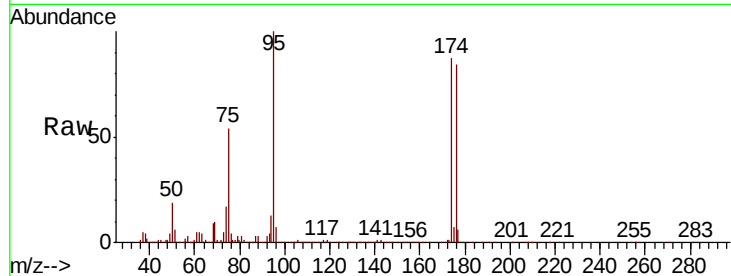
Tot Ion: 95 Resp: 390997

Ion Ratio Lower Upper

95 100

174 85.0 0.0 169.0

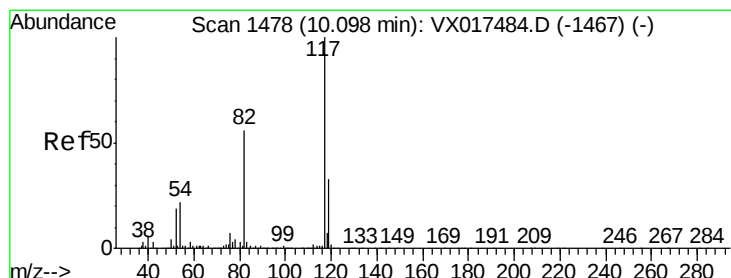
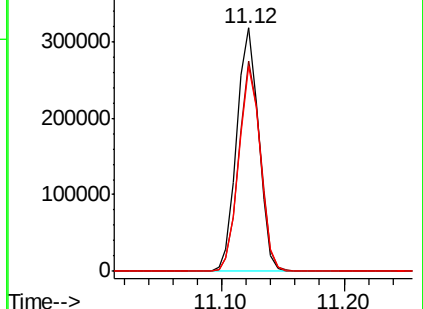
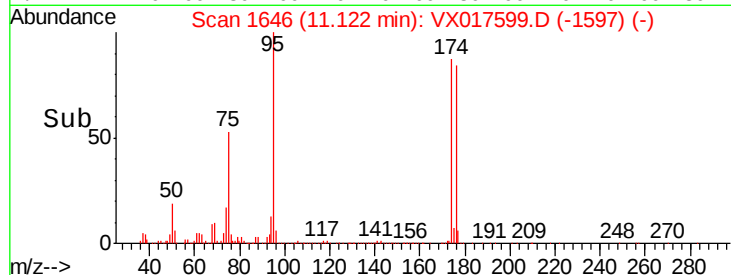
176 83.4 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX017599.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX017599.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX017599.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

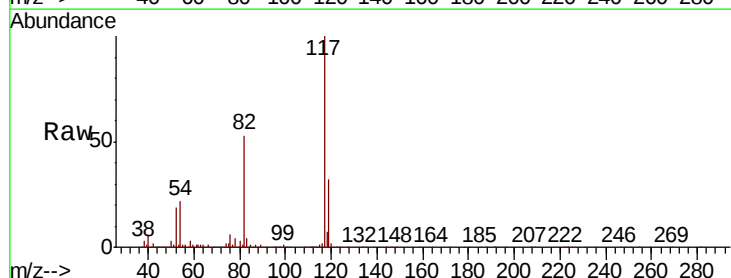
Tgt Ion: 117 Resp: 768094

Ion Ratio Lower Upper

117 100

82 53.0 44.0 66.0

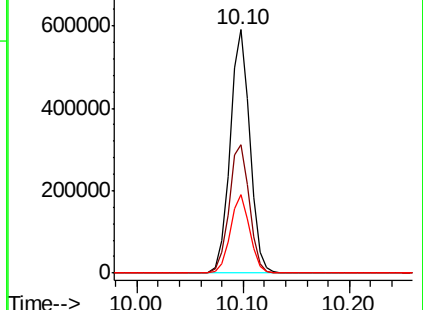
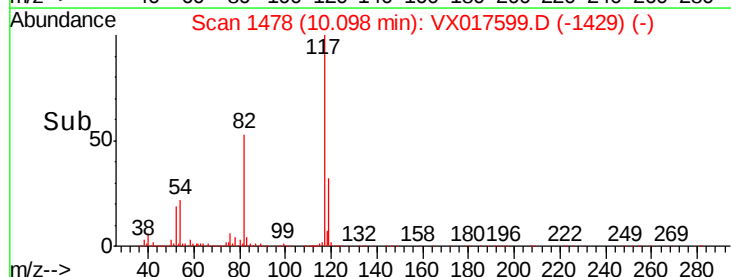
119 32.2 25.4 38.0

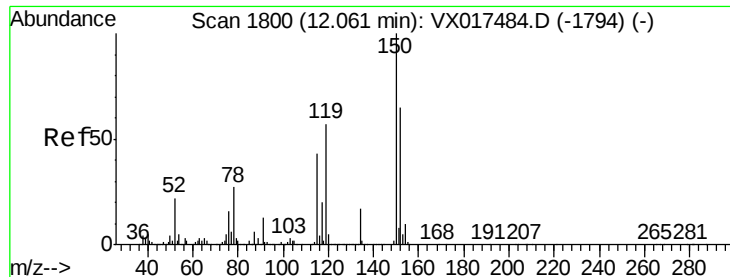


Abundance Ion 116.90 (116.60 to 117.60): VX017599.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX017599.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX017599.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

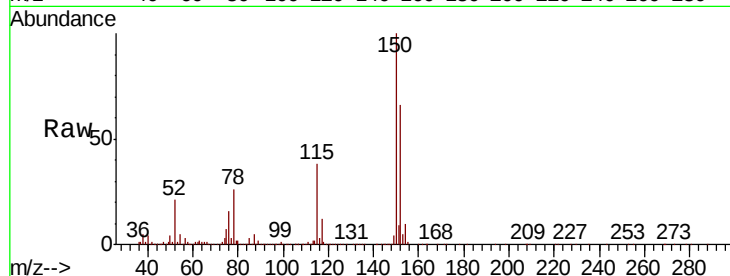
Tot Ion:152 Resp: 402943

Ion Ratio Lower Upper

152 100

115 56.9 65.5 196.6#

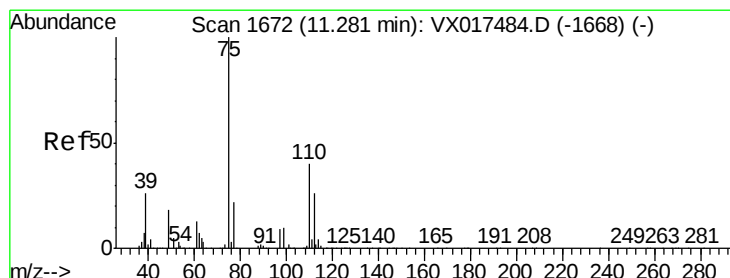
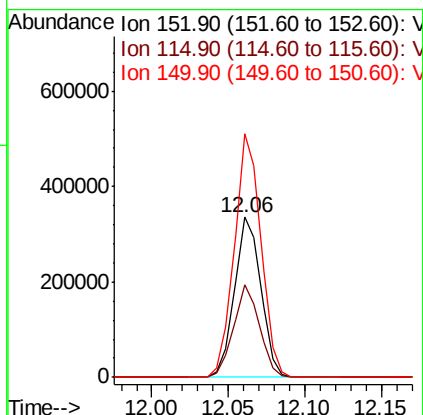
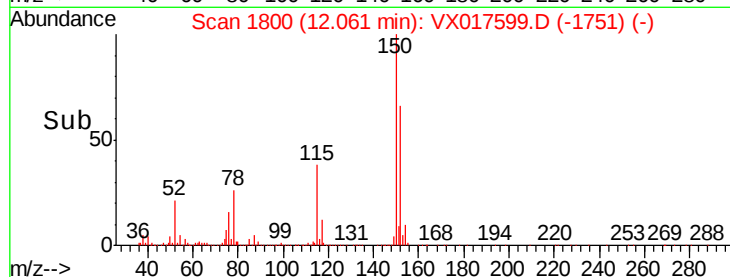
150 152.7 0.0 412.6



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: 24.695 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017599.D

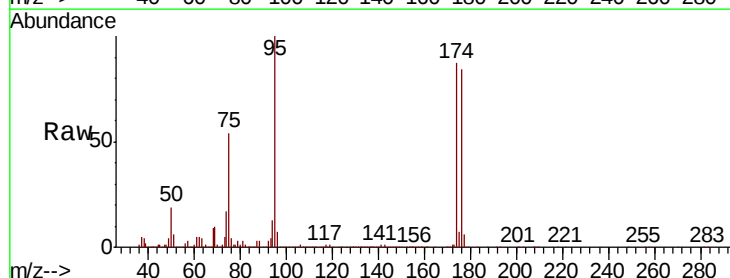
Acq: 25 Jul 2020 16:23

Tgt Ion: 75 Resp: 204692

Ion Ratio Lower Upper

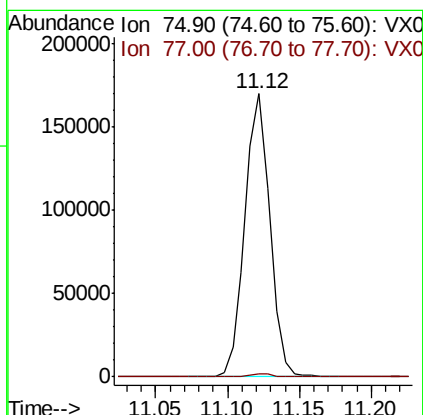
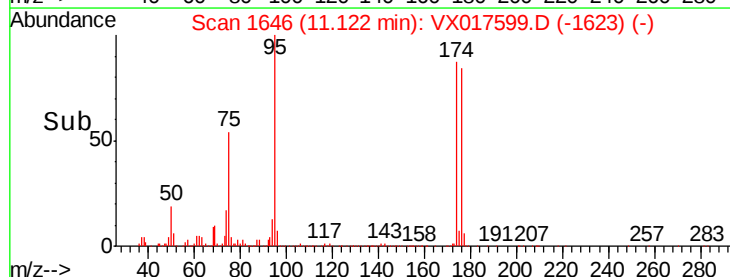
75 100

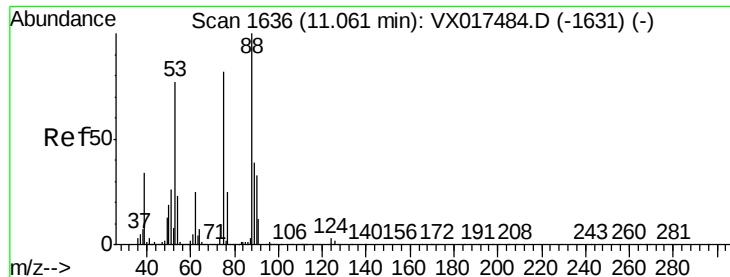
77 1.3 21.8 65.3#



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: 62.227 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

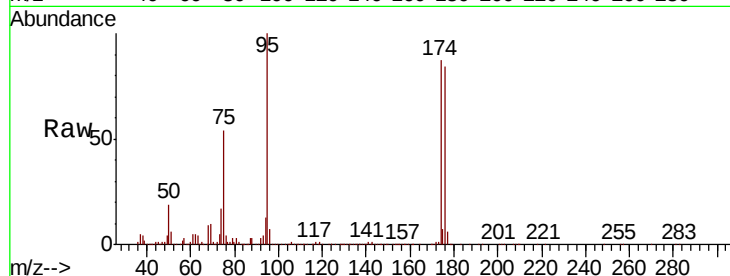
Tot Ion: 75 Resp: 204692

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

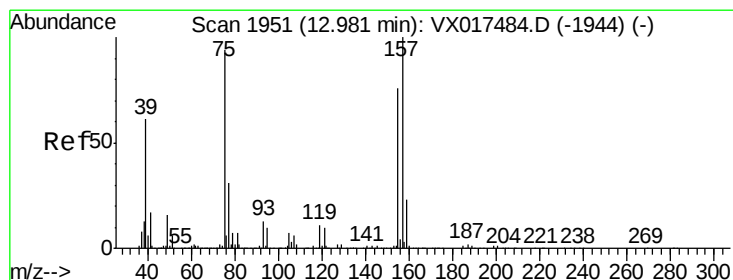
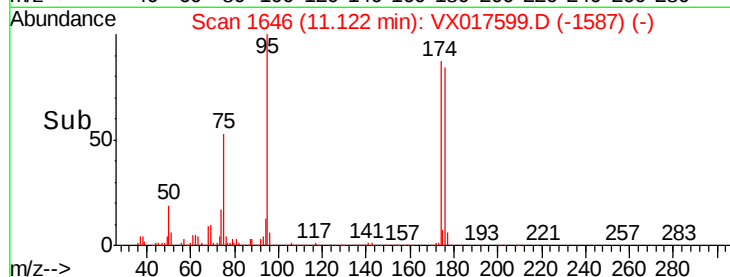
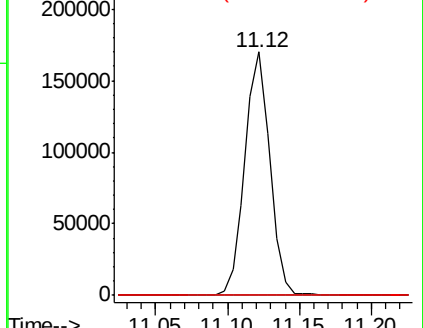
89 0.1 37.8 56.6#



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: 2.659 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017599.D

Acq: 25 Jul 2020 16:23

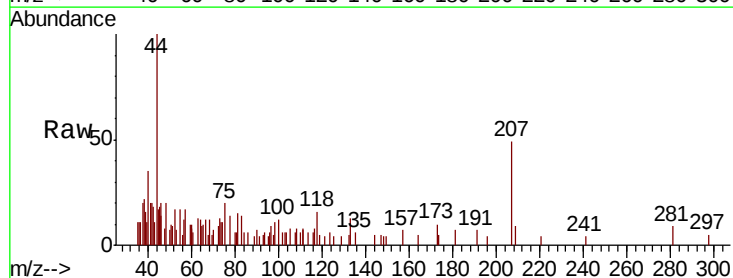
Tgt Ion: 75 Resp: 211

Ion Ratio Lower Upper

75 100

155 11.8 42.3 126.8#

157 69.7 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

