

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017311.D
 Acq On : 09 Jul 2020 16:34
 Operator : JC/SP
 Sample : L3235-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WGGM-20-WW-TSF-022

Quant Time: Jul 10 06:39:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 12:25:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	54989	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	269681	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	254105	30.00	ug/l	0.00

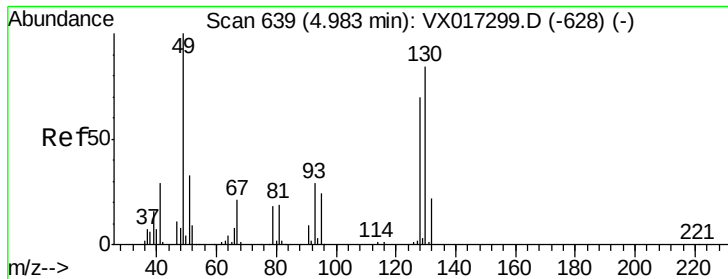
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	118188	29.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.67%
60) 4-Bromofluorobenzene	11.12	95	111021	25.61	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.37%
63) Toluene-d8	8.70	98	315500	29.35	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.83%

Target Compounds

					Ovalue	
16) Carbon Disulfide	2.55	76	1566	0.228	ug/l	96
23) tert-Butyl Alcohol	3.01	59	209	0.319	ug/l #	28
51) Ethyl methacrylate	8.70	69	1300	0.289	ug/l	69
55) 2-Chloroethyl vinyl ether	8.29	63	59	18.766	ug/l #	43
56) Bromoform	11.12	173	718	0.244	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.12	75	55111	34.414	ug/l #	8

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. -0.00 min

Lab File: VX017311.D

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Instrument :

MSVOA_X

ClientSampleId :

WGGM-20-WW-TSF-022

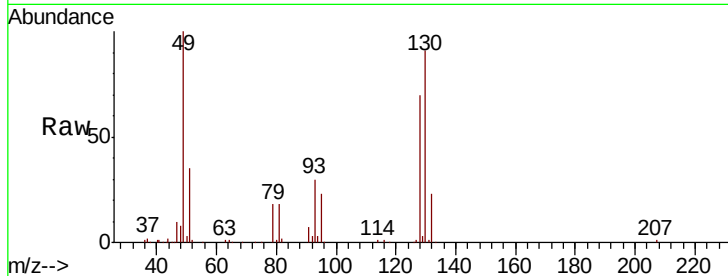
Tot Ion:128 Resp: 54989

Ion Ratio Lower Upper

128 100

49 142.6 0.0 358.8

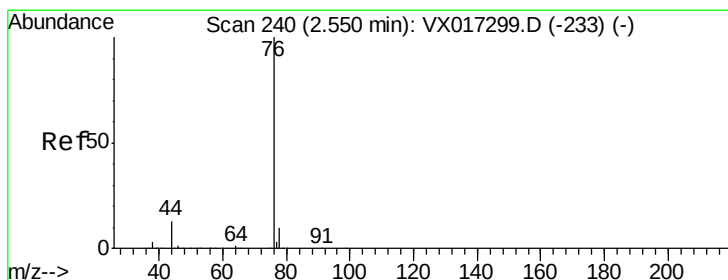
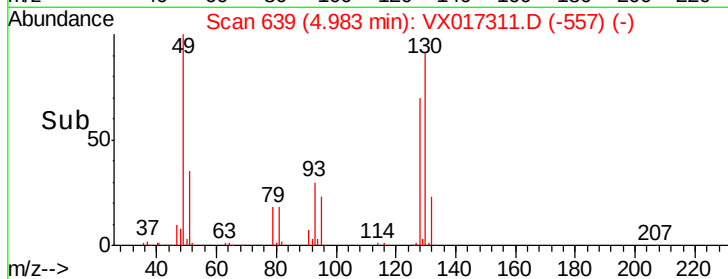
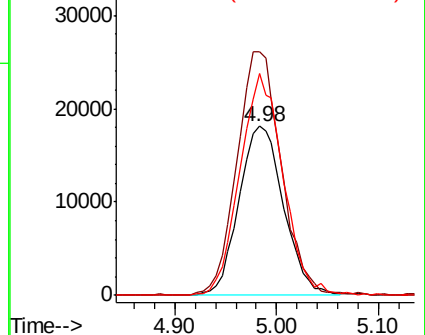
130 127.2 0.0 323.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#16

Carbon Disulfide

Concen: 0.228 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017311.D

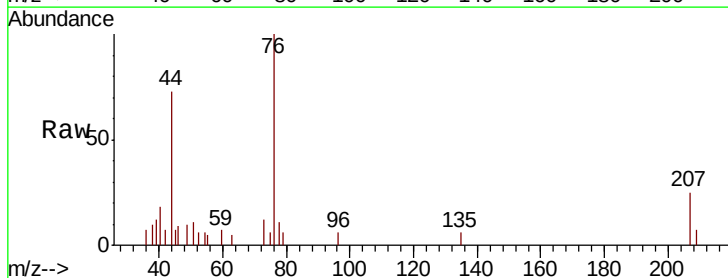
Acq: 09 Jul 2020 16:34

Tgt Ion: 76 Resp: 1566

Ion Ratio Lower Upper

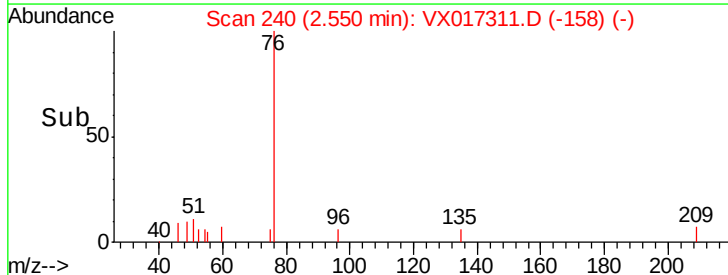
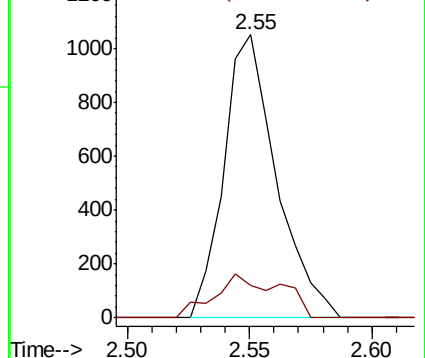
76 100

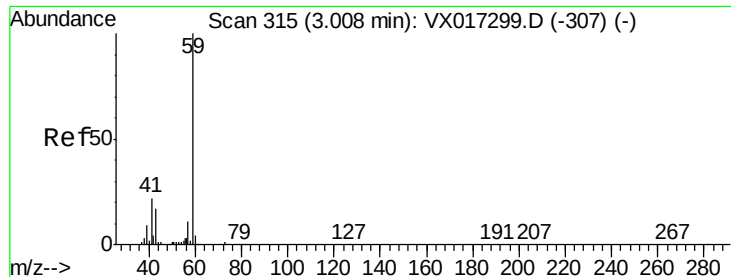
78 11.4 7.9 11.9



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

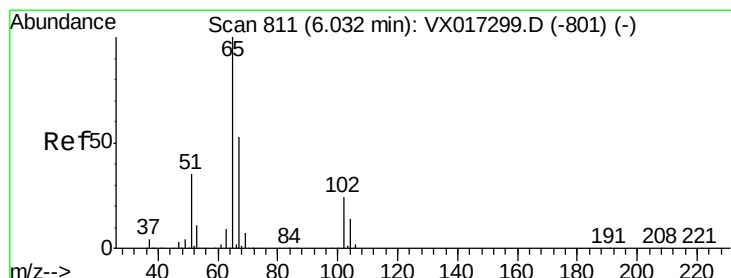
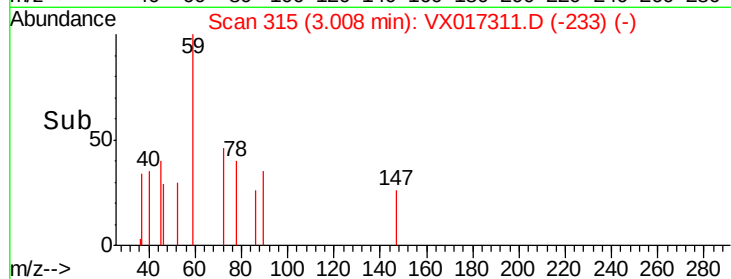
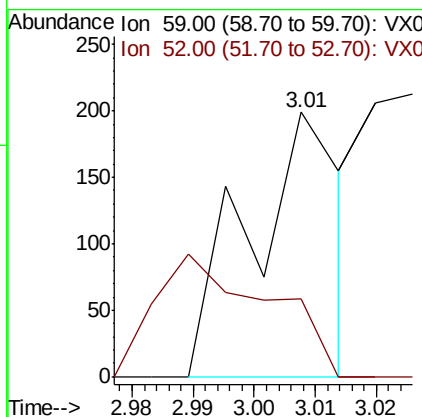
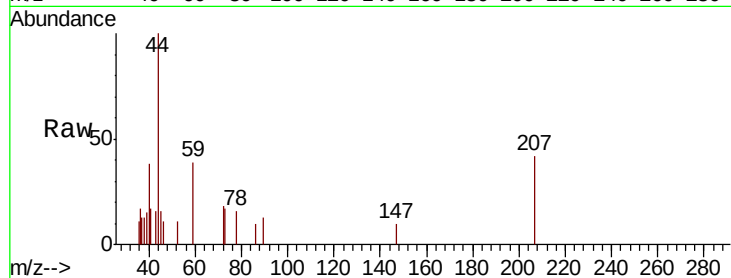




#23
 tert-Butyl Alcohol
 Concen: 0.319 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VX017311.D
 Acq: 09 Jul 2020 16:34

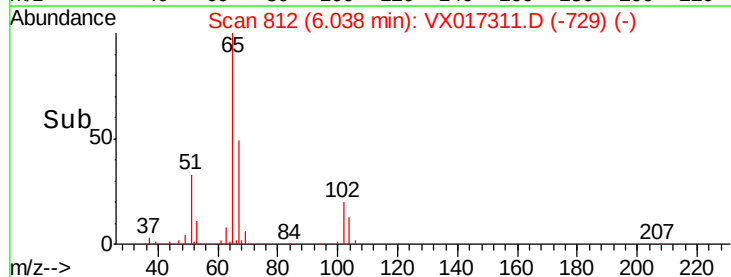
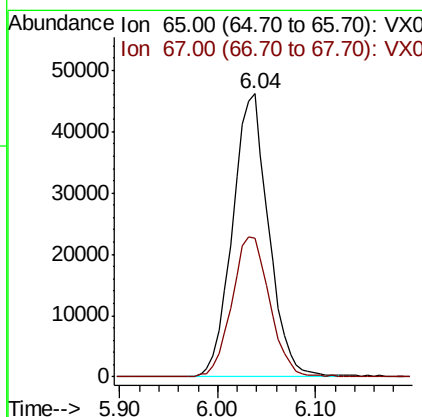
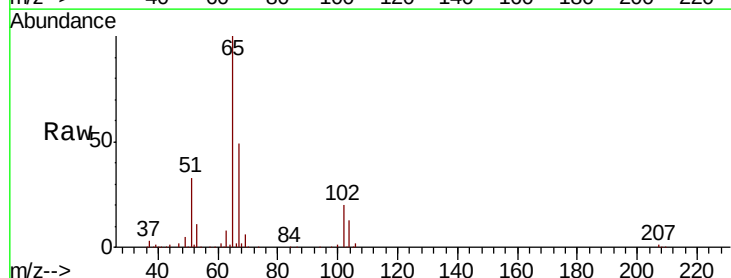
Instrument :
 MSVOA_X
 ClientSampleId :
 WGM-20-WW-TSF-022

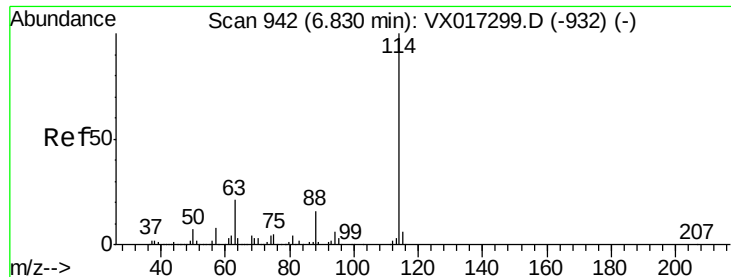
Tot Ion: 59 Resp: 209
 Ion Ratio Lower Upper
 59 100
 52 46.9 0.4 0.6#



#27
 1,2-Dichloroethane-d4
 Concen: 29.904 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017311.D
 Acq: 09 Jul 2020 16:34

Tgt Ion: 65 Resp: 118188
 Ion Ratio Lower Upper
 65 100
 67 51.8 41.0 61.6

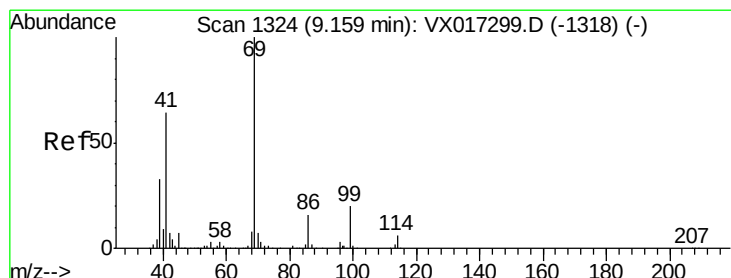
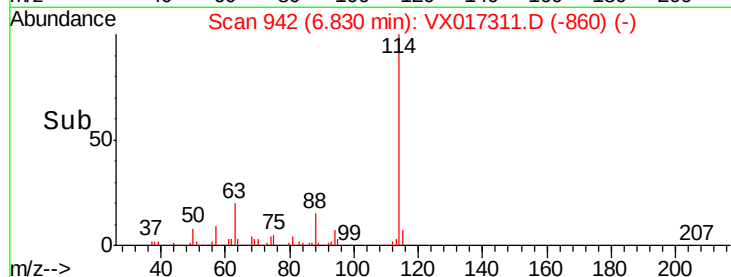
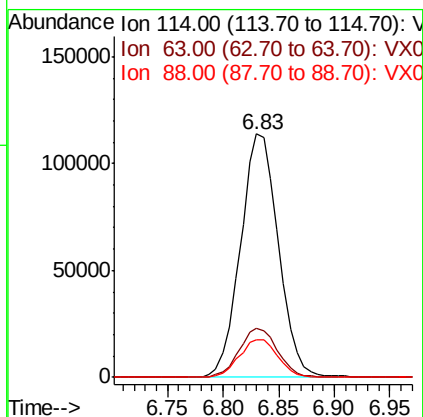
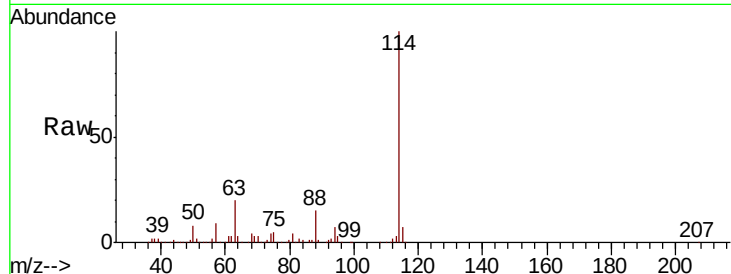




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017311.D
 Acq: 09 Jul 2020 16:34

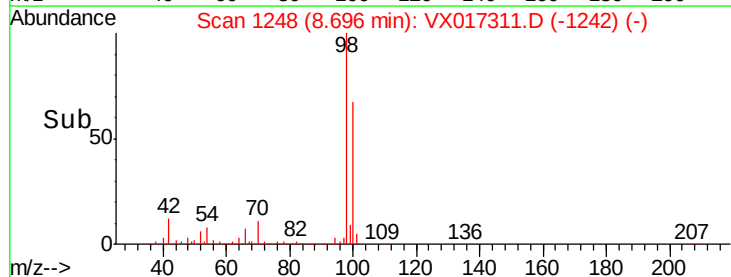
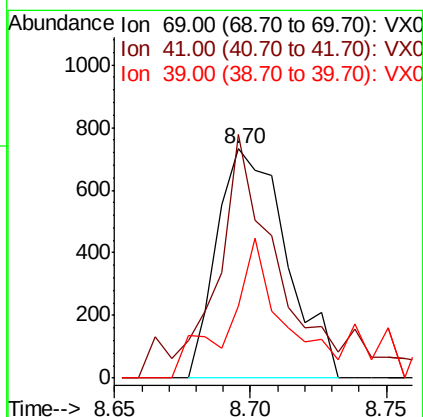
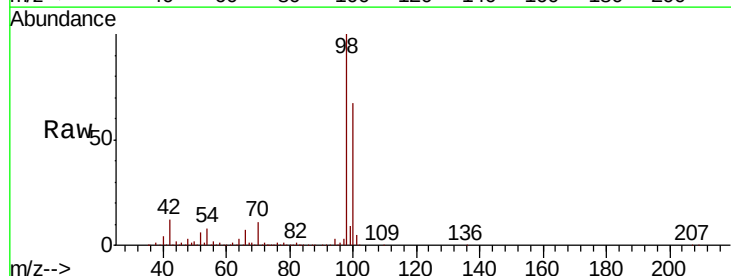
Instrument :
 MSVOA_X
 ClientSampleId :
 WGM-20-WW-TSF-022

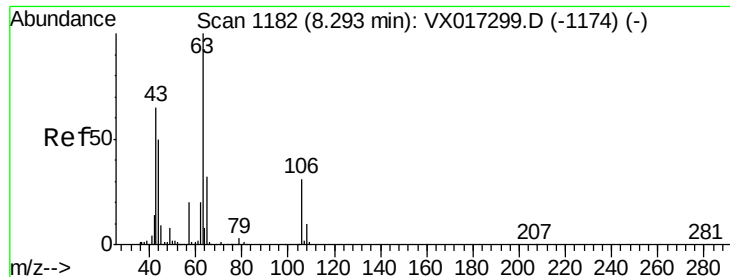
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.2	15.9	23.9
88	15.8	12.4	18.6



#51
 Ethyl methacrylate
 Concen: 0.289 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. -0.46 min
 Lab File: VX017311.D
 Acq: 09 Jul 2020 16:34

Tgt Ion	Ratio	Lower	Upper
69	100		
41	94.9	32.1	96.5
39	23.8	16.3	48.9





#55

2-Chloroethyl vinyl ether

Concen: 18.766 ug/l

RT: 8.29 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VX017311.D

Acq: 09 Jul 2020 16:34

Instrument :

MSVOA_X

ClientSampleId :

WGGM-20-WW-TSF-022

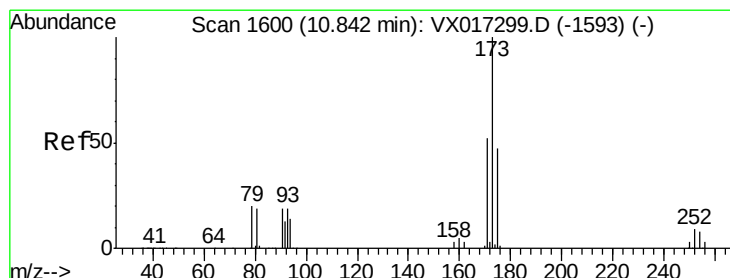
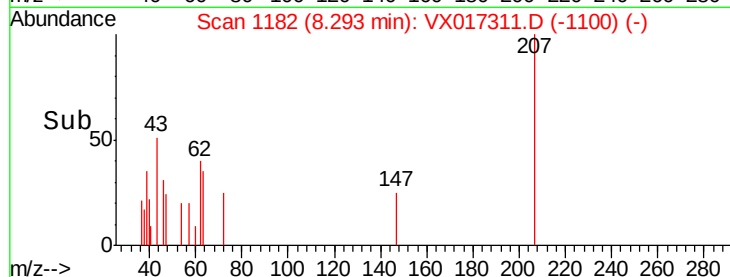
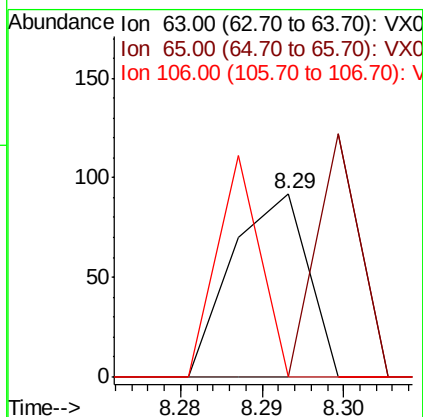
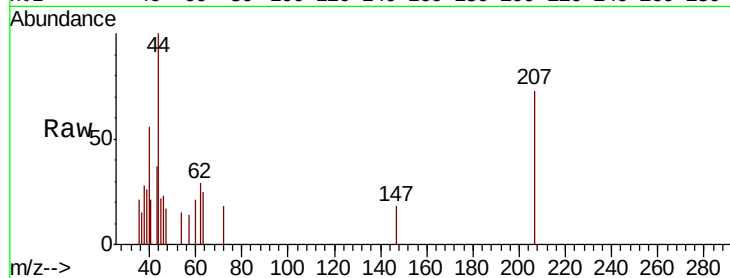
Tot Ion: 63 Resp: 59

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

106 0.0 24.5 36.7#



#56

Bromoform

Concen: 0.244 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.28 min

Lab File: VX017311.D

Acq: 09 Jul 2020 16:34

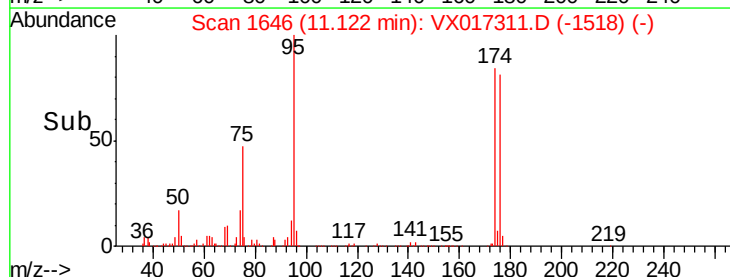
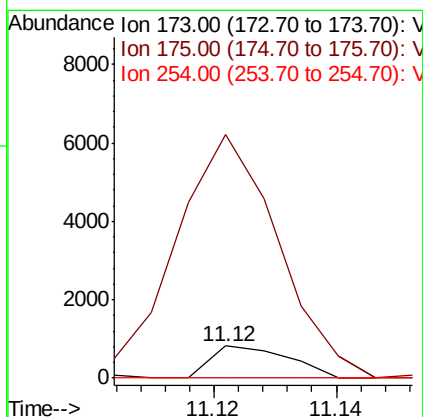
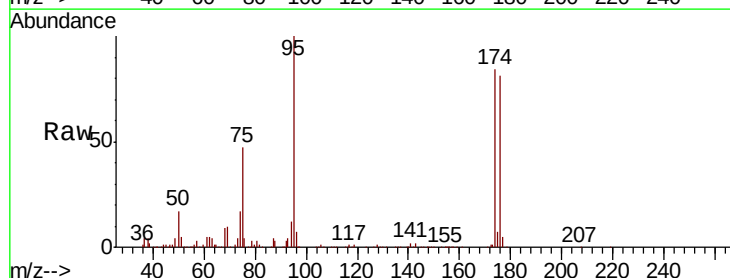
Tgt Ion: 173 Resp: 718

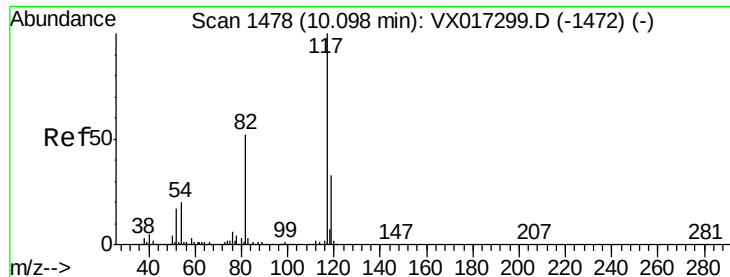
Ion Ratio Lower Upper

173 100

175 1016.2 38.4 57.6#

254 0.0 7.0 10.4#

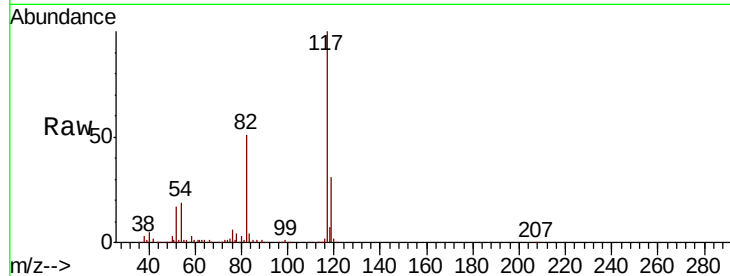




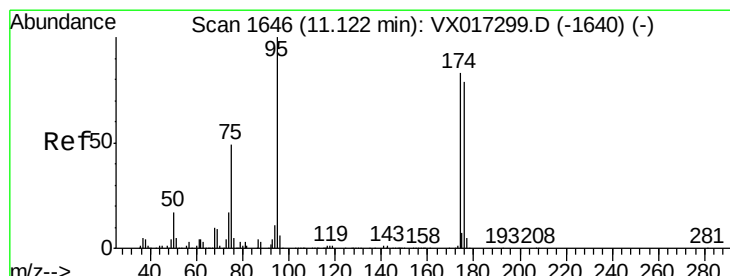
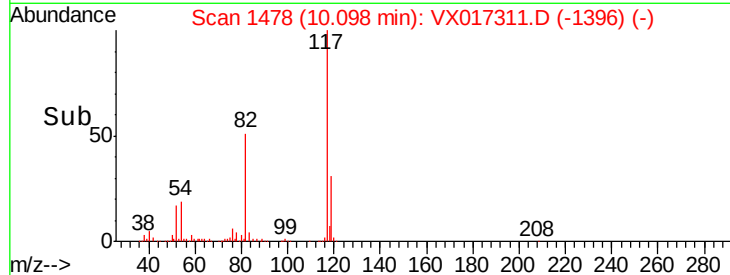
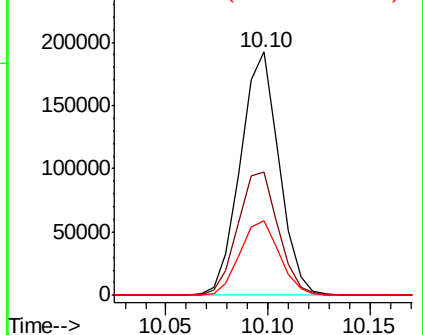
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017311.D
Acq: 09 Jul 2020 16:34

Instrument :
MSVOA_X
ClientSampleId :
WGGM-20-WW-TSF-022

Tot Ion:117 Resp: 254105
Ion Ratio Lower Upper
117 100
82 53.0 42.2 63.4
119 31.6 26.4 39.6

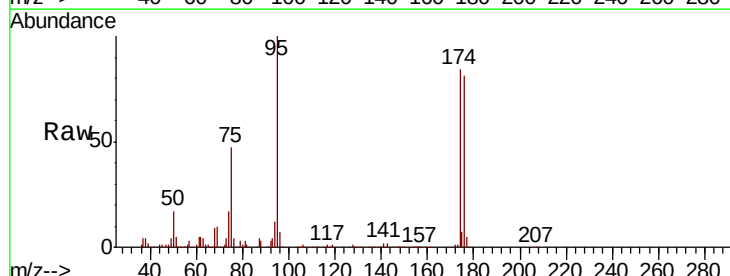


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 119.00 (118.70 to 119.70): V

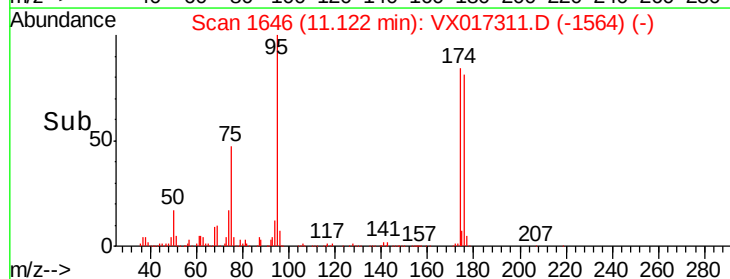
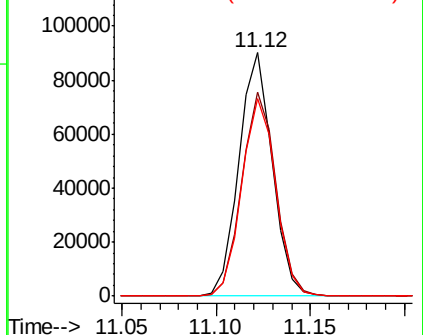


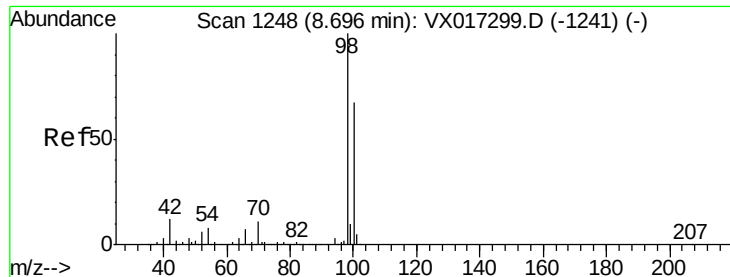
#60
4-Bromofluorobenzene
Concen: 25.610 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017311.D
Acq: 09 Jul 2020 16:34

Tgt Ion: 95 Resp: 111021
Ion Ratio Lower Upper
95 100
174 85.1 66.9 100.3
176 82.9 65.5 98.3



Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 29.353 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017311.D

Acq: 09 Jul 2020 16:34

Instrument :

MSVOA_X

ClientSampleId :

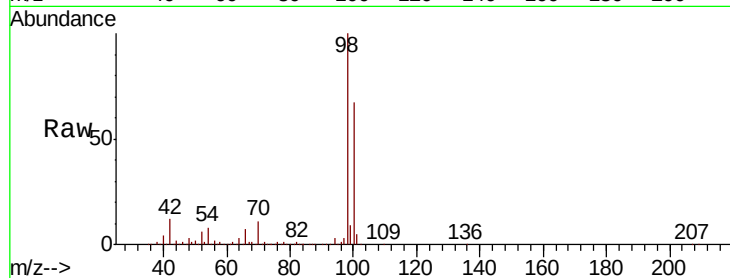
WGGM-20-WW-TSF-022

Tot Ion: 98 Resp: 315500

Ion Ratio Lower Upper

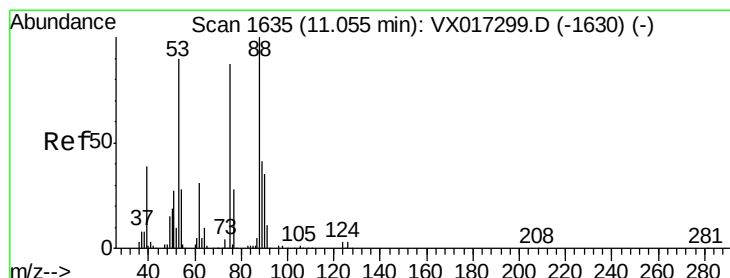
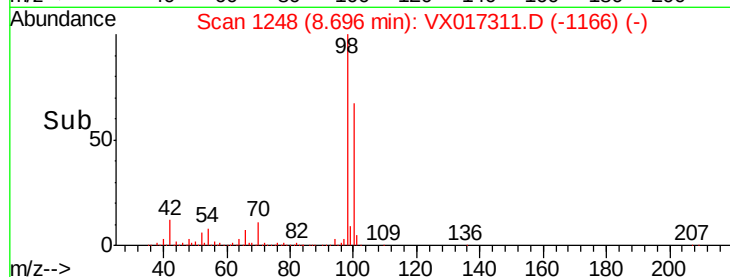
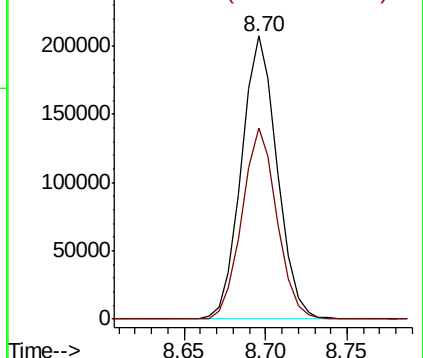
98 100

100 66.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#77

t-1,4-Dichloro-2-butene

Concen: 34.414 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017311.D

Acq: 09 Jul 2020 16:34

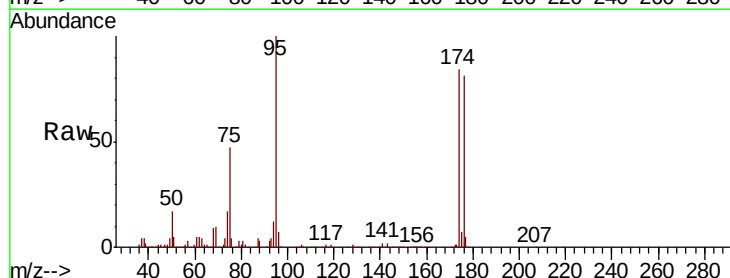
Tgt Ion: 75 Resp: 55111

Ion Ratio Lower Upper

75 100

53 0.2 52.1 156.3#

89 0.0 23.7 71.1#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

