

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019086.D
 Acq On : 23 Oct 2020 19:08
 Operator : JC/SP
 Sample : L4473-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-021-IDW/GW-20201019

Quant Time: Oct 26 04:17:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 03:21:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	42003	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	233651	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	206809	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	85449	30.54	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.80%
60) 4-Bromofluorobenzene	11.12	95	92066	29.66	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.87%
63) Toluene-d8	8.70	98	276761	30.31	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.03%

Target Compounds

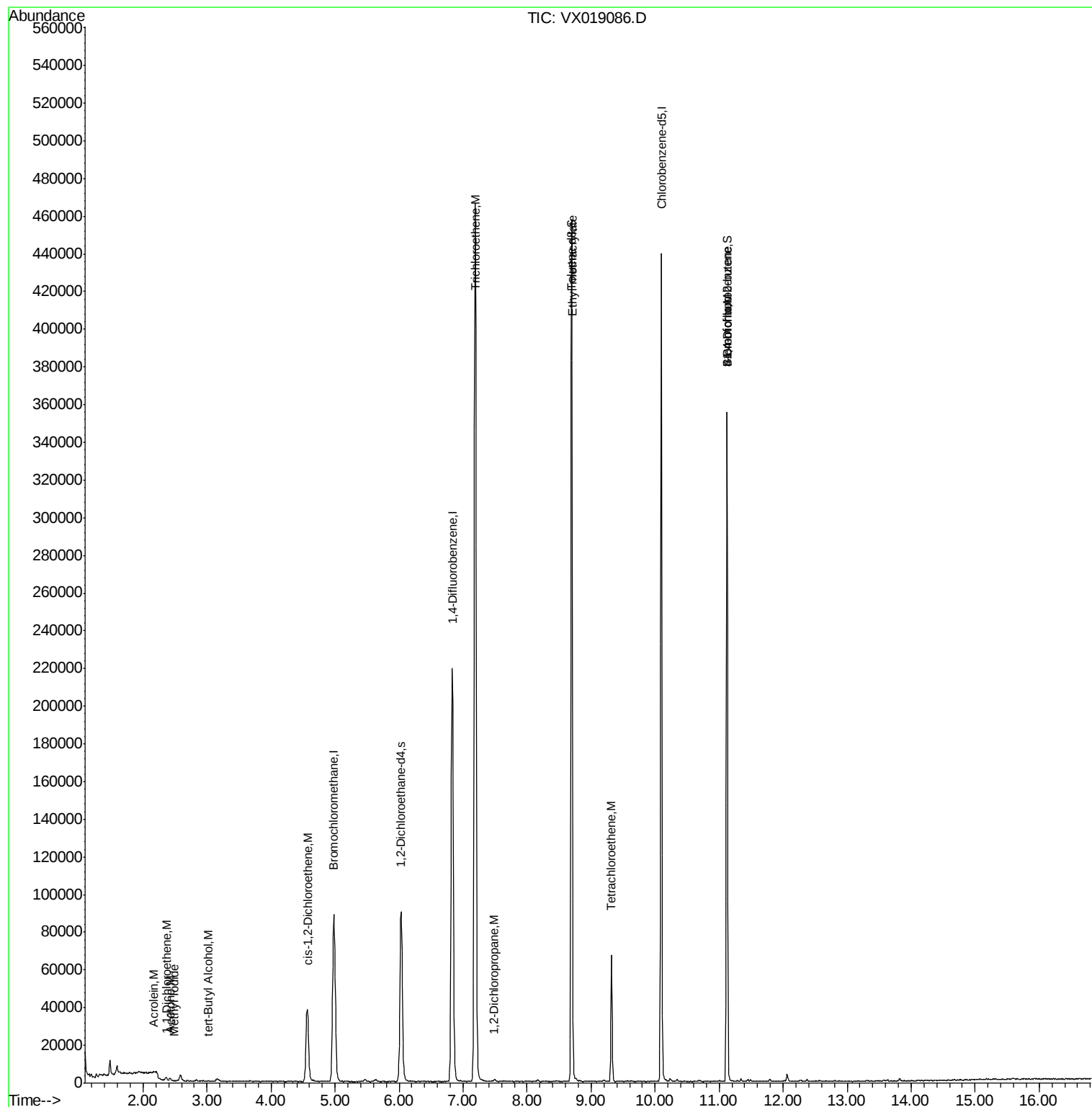
					Ovalue
10) 1,1-Dichloroethene	2.36	96	657	0.311 ug/l #	64
11) Methyl Iodide	2.48	142	61	7.364 ug/l #	39
13) Acrolein	2.17	56	151	0.783 ug/l	86
15) Acetone	2.42	58	516	1.832 ug/l	96
22) cis-1,2-Dichloroethene	4.57	96	26820	9.376 ug/l	93
23) tert-Butyl Alcohol	3.01	59	105	0.220 ug/l #	100
37) Trichloroethene	7.19	130	182603	65.503 ug/l	99
39) 1,2-Dichloropropane	7.49	63	492	0.219 ug/l #	84
51) Ethyl methacrylate	8.71	69	964	0.261 ug/l #	68
56) Bromoform	11.12	173	715	0.363 ug/l #	1
61) Tetrachloroethene	9.32	164	12811	5.222 ug/l	97
77) t-1,4-Dichloro-2-butene	11.12	75	46611	38.792 ug/l #	16

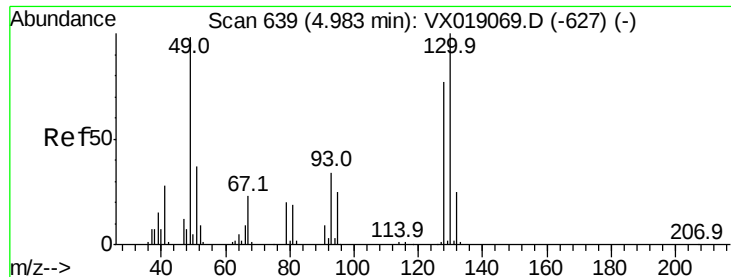
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 26 04:17:49 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Oct 26 03:21:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

Instrument :

MSVOA_X

ClientSampleId :

TT-021-IDW/GW-20201019

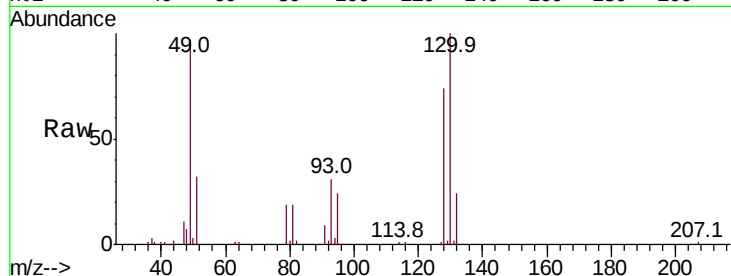
Tot Ion:128 Resp: 42003

Ion Ratio Lower Upper

128 100

49 129.4 0.0 318.8

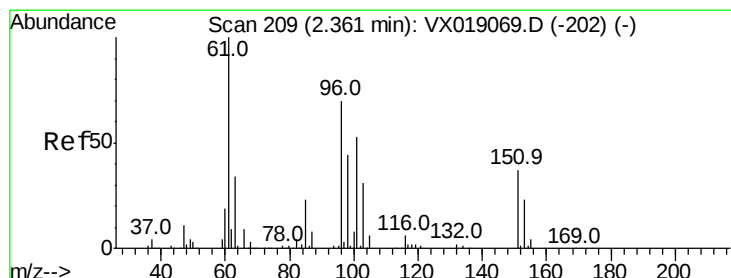
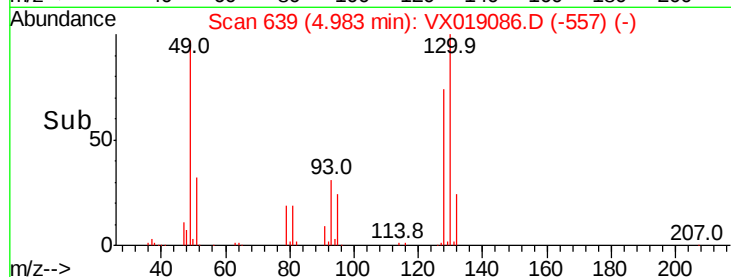
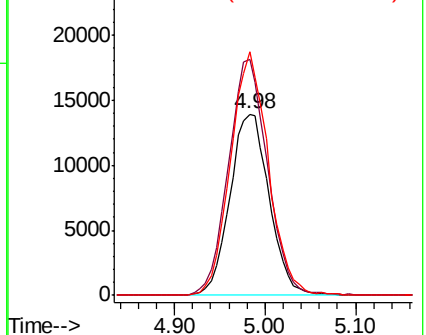
130 128.6 0.0 321.8



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



#10

1,1-Dichloroethene

Concen: 0.311 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.00 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

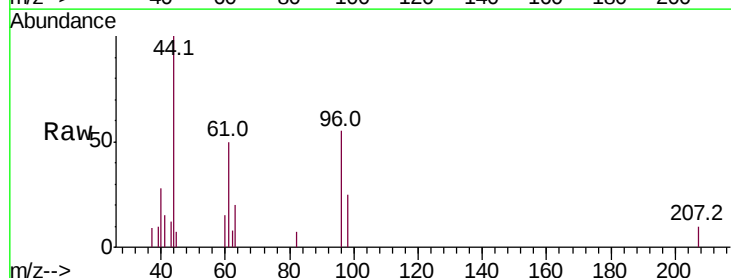
Tgt Ion: 96 Resp: 657

Ion Ratio Lower Upper

96 100

61 90.8 113.8 170.8#

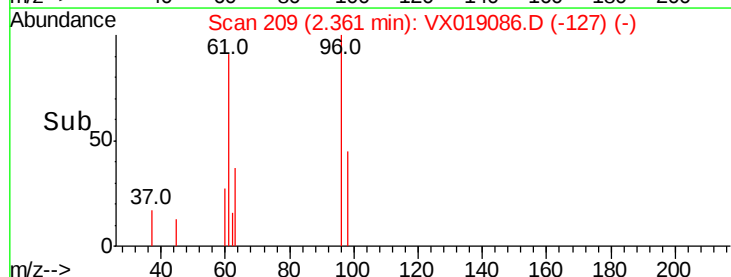
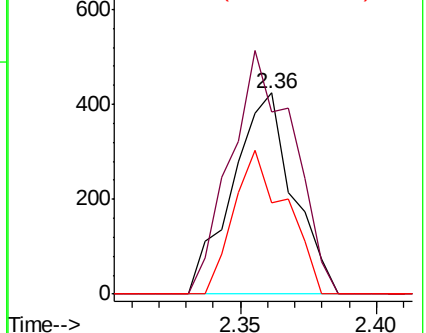
98 45.3 50.4 75.6#

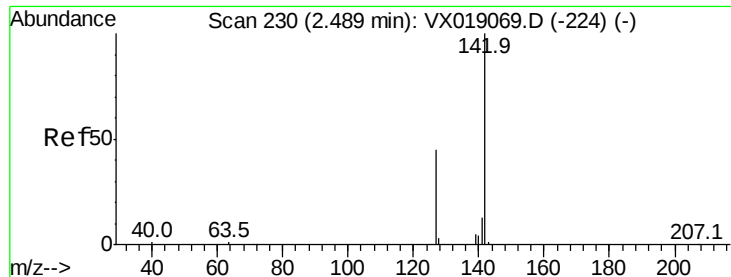


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

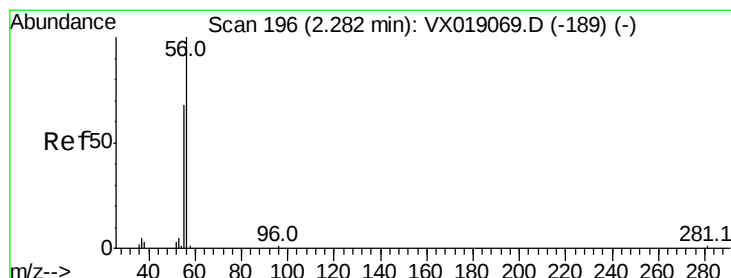
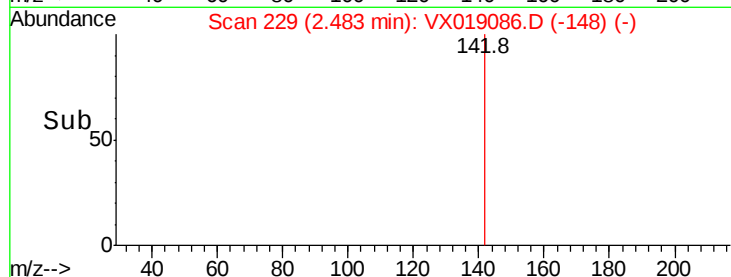
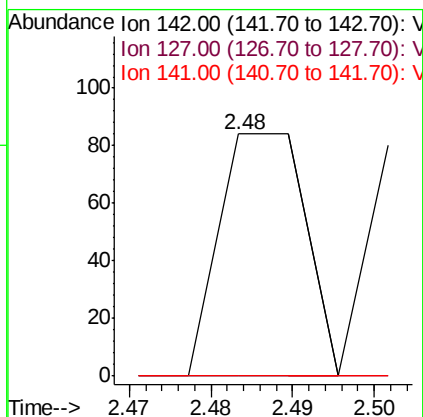
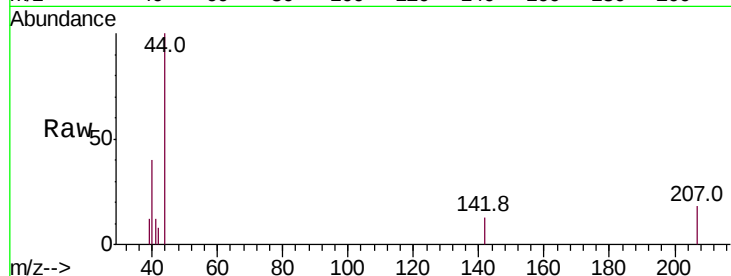




#11
Methvl Iodide
Concen: 7.364 ug/l
RT: 2.48 min Scan# 229
Delta R.T. -0.01 min
Lab File: VX019086.D
Acq: 23 Oct 2020 19:08

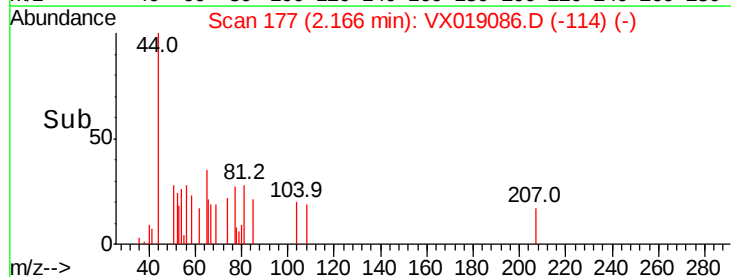
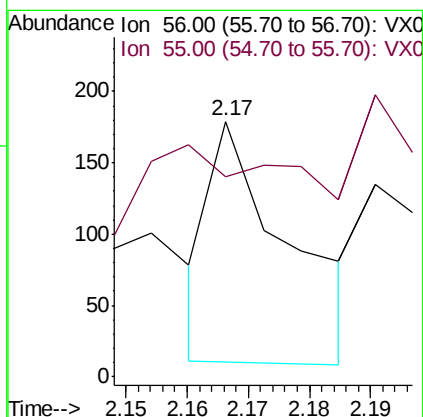
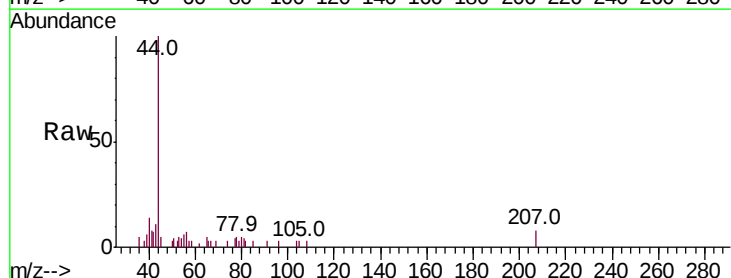
Instrument :
MSVOA_X
ClientSampleId :
TT-021-IDW/GW-20201019

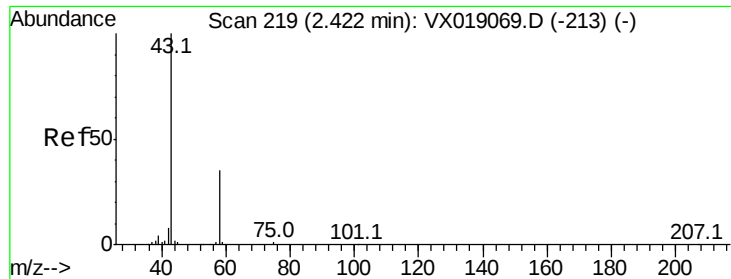
Tot Ion:142 Resp: 61
Ion Ratio Lower Upper
142 100
127 0.0 22.6 67.7#
141 0.0 6.3 19.1#



#13
Acrolein
Concen: 0.783 ug/l
RT: 2.17 min Scan# 177
Delta R.T. -0.12 min
Lab File: VX019086.D
Acq: 23 Oct 2020 19:08

Tgt Ion: 56 Resp: 151
Ion Ratio Lower Upper
56 100
55 84.8 58.2 87.2





#15

Acetone

Concen: 1.832 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

Instrument :

MSVOA_X

ClientSampleId :

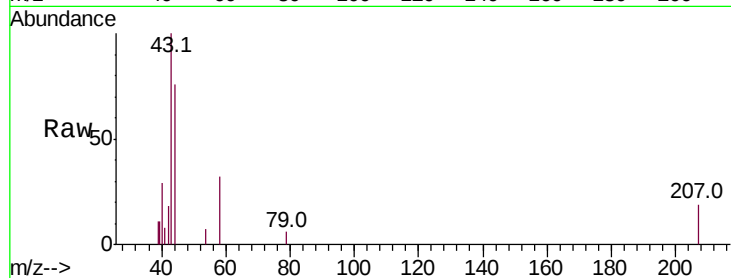
TT-021-IDW/GW-20201019

Tot Ion: 58 Resp: 516

Ion Ratio Lower Upper

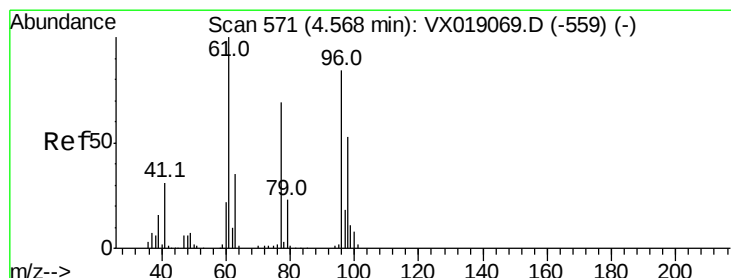
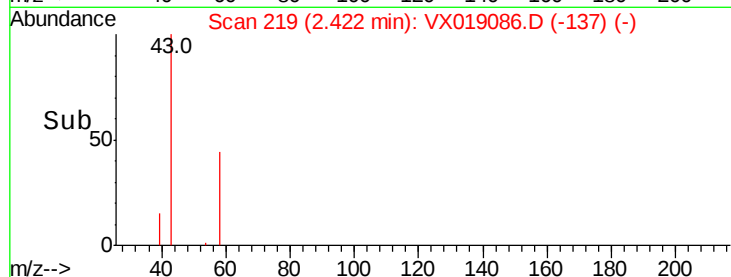
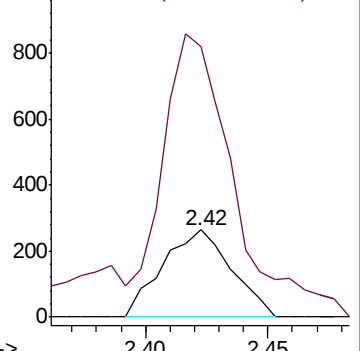
58 100

43 275.0 226.7 340.1



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#22

cis-1,2-Dichloroethene

Concen: 9.376 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.00 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

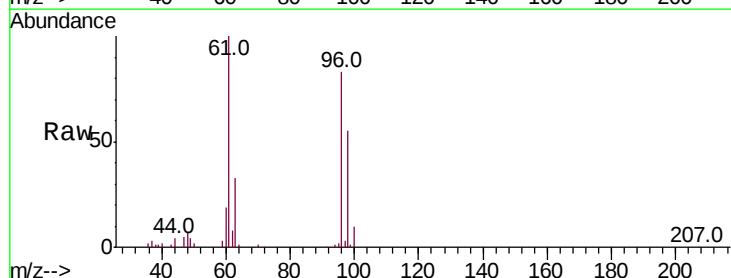
Tgt Ion: 96 Resp: 26820

Ion Ratio Lower Upper

96 100

61 114.9 101.9 152.9

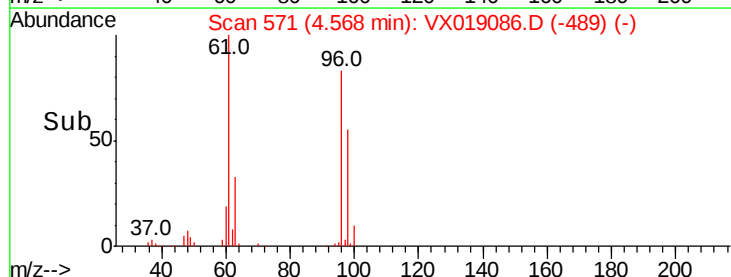
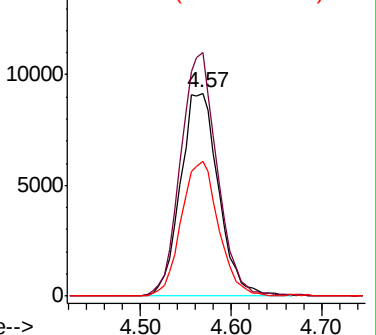
98 64.4 51.3 76.9

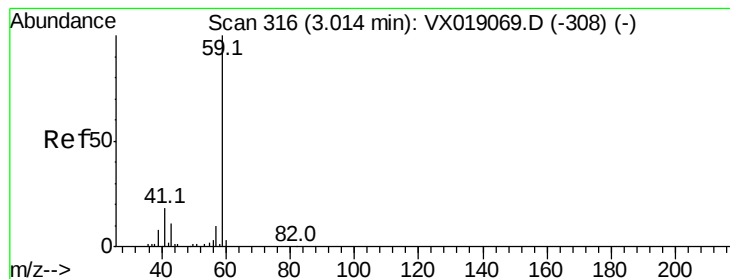


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#23

tert-Butyl Alcohol

Concen: 0.220 ug/l

RT: 3.01 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

Instrument :

MSVOA_X

ClientSampleId :

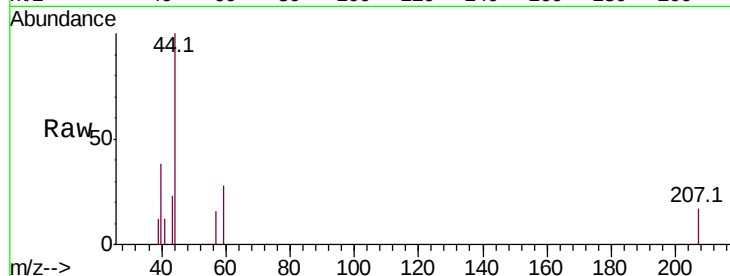
TT-021-IDW/GW-20201019

Tot Ion: 59 Resp: 105

Ion Ratio Lower Upper

59 100

52 0.0 0.2 0.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

3.01

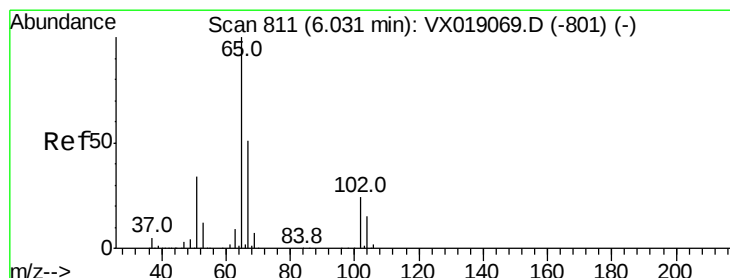
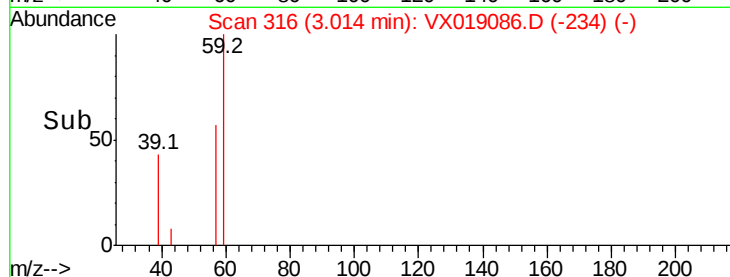
100

50

0

Time-->

3.00 3.01 3.02 3.03 3.04



#27

1,2-Dichloroethane-d4

Concen: 30.543 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019086.D

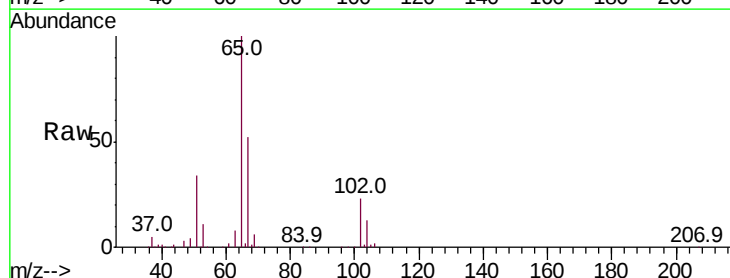
Acq: 23 Oct 2020 19:08

Tgt Ion: 65 Resp: 85449

Ion Ratio Lower Upper

65 100

67 52.5 42.0 63.0



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.03

30000

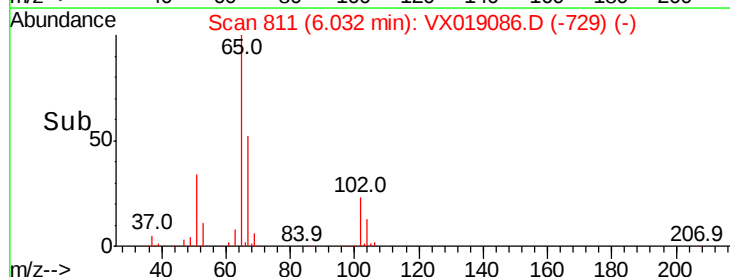
20000

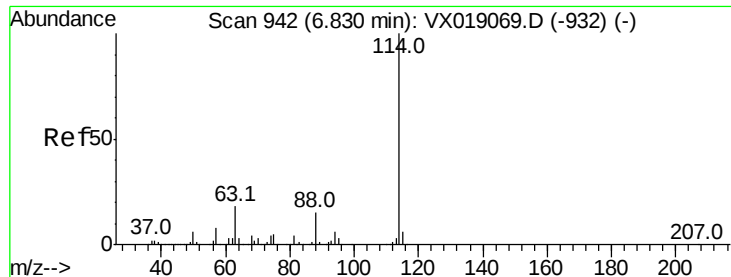
10000

0

Time-->

5.95 6.00 6.05 6.10 6.15





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

Instrument :

MSVOA_X

ClientSampleId :

TT-021-IDW/GW-20201019

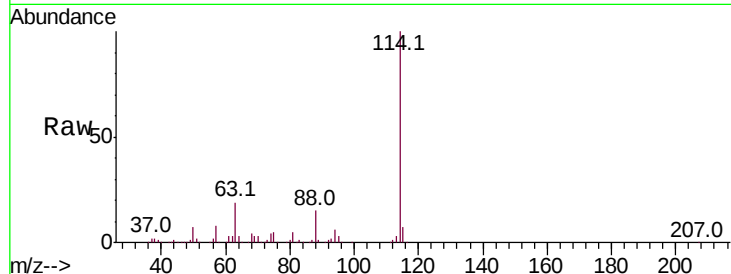
Tot Ion:114 Resp: 233651

Ion Ratio Lower Upper

114 100

63 18.5 14.6 21.8

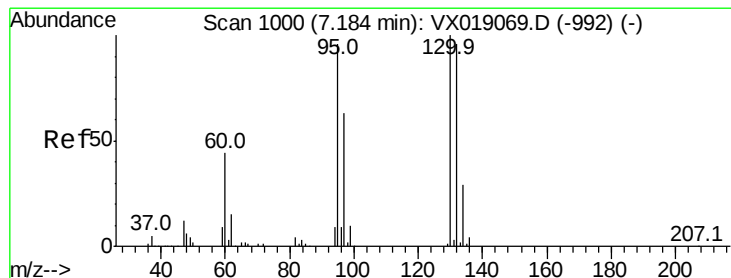
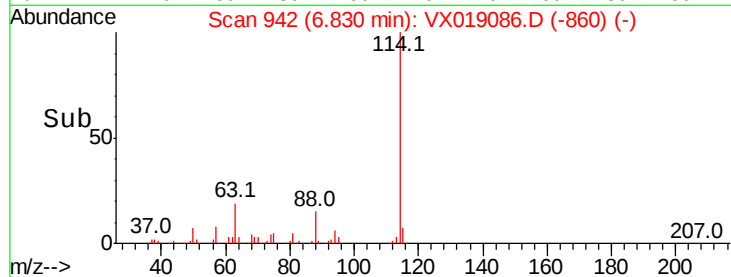
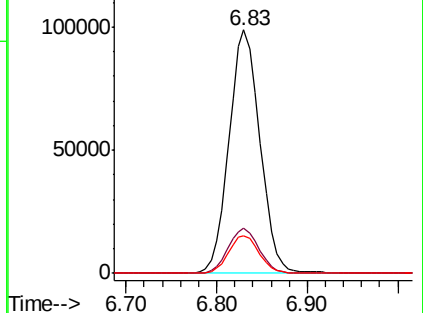
88 15.3 12.2 18.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#37

Trichloroethene

Concen: 65.503 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019086.D

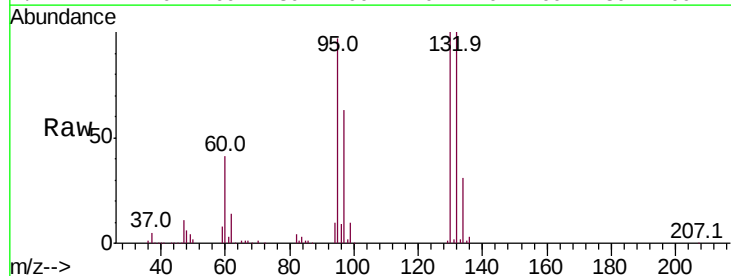
Acq: 23 Oct 2020 19:08

Tgt Ion:130 Resp: 182603

Ion Ratio Lower Upper

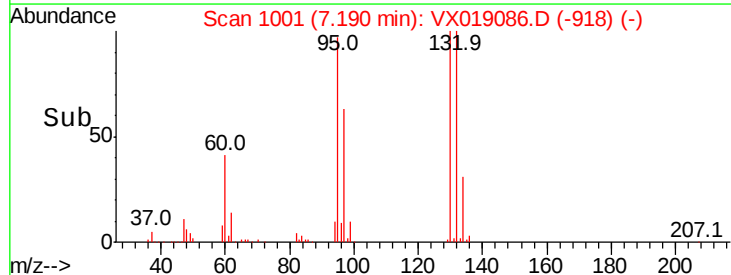
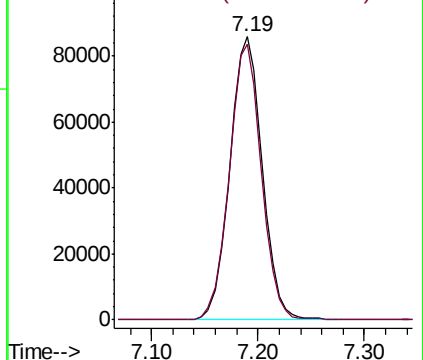
130 100

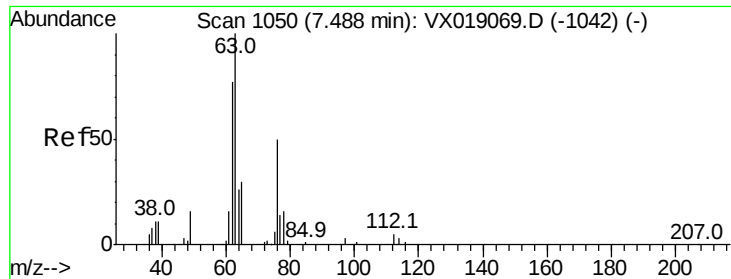
95 97.4 76.8 115.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0

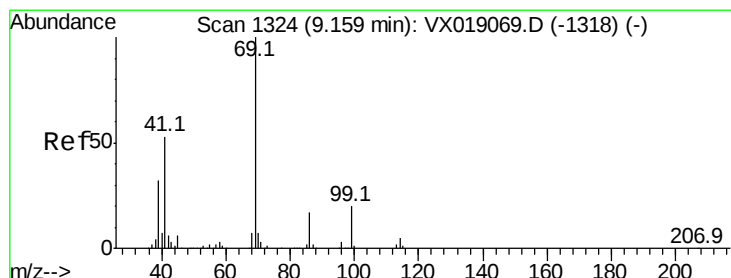
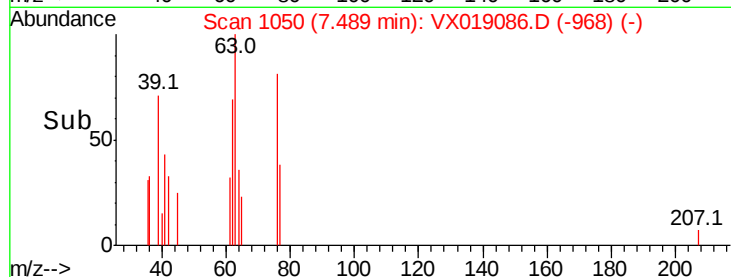
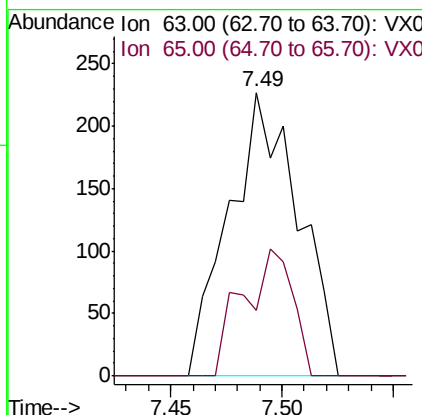
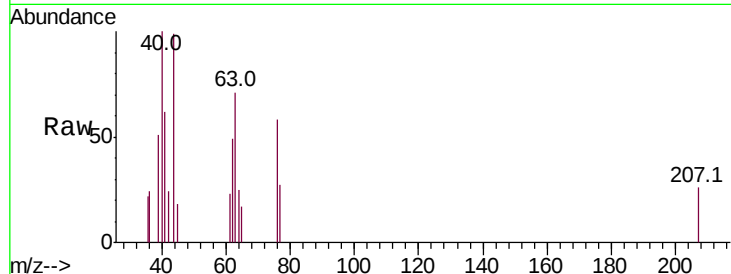




#39
 1,2-Dichloropropane
 Concen: 0.219 ug/l
 RT: 7.49 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VX019086.D
 Acq: 23 Oct 2020 19:08

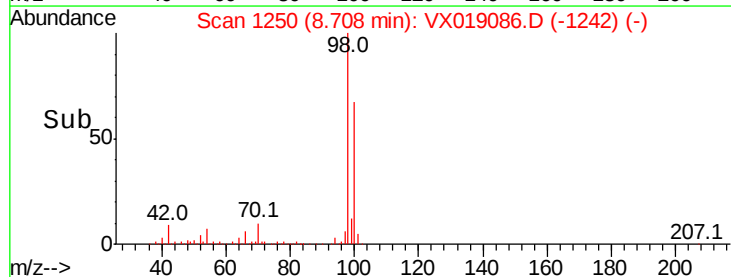
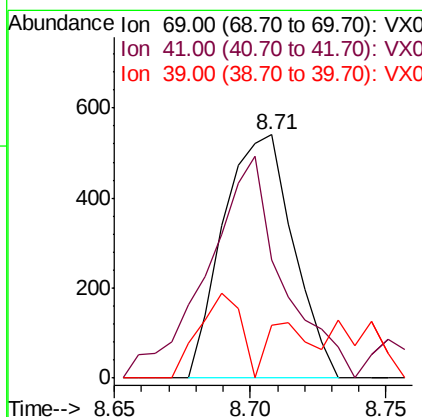
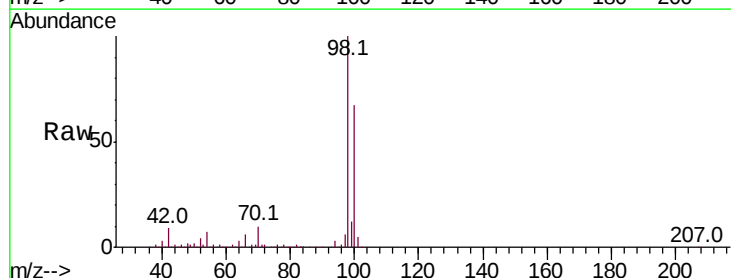
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 TT-021-IDWGW-20201019

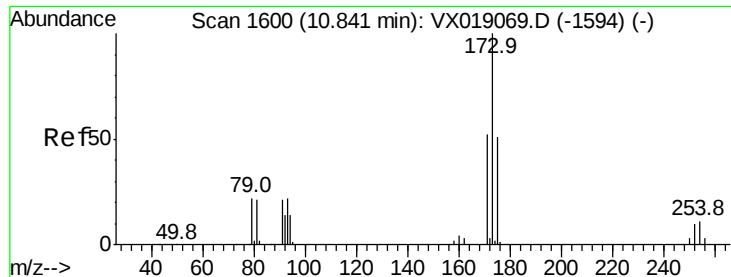
Tot Ion: 63 Resp: 492
 Ion Ratio Lower Upper
 63 100
 65 23.3 25.8 38.8#



#51
 Ethyl methacrylate
 Concen: 0.261 ug/l
 RT: 8.71 min Scan# 1250
 Delta R.T. -0.45 min
 Lab File: VX019086.D
 Acq: 23 Oct 2020 19:08

Tgt Ion: 69 Resp: 964
 Ion Ratio Lower Upper
 69 100
 41 36.0 26.5 79.4
 39 7.4 16.2 48.6#





#56

Bromoform

Concen: 0.363 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.28 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

Instrument :

MSVOA_X

ClientSampleId :

TT-021-IDW/GW-20201019

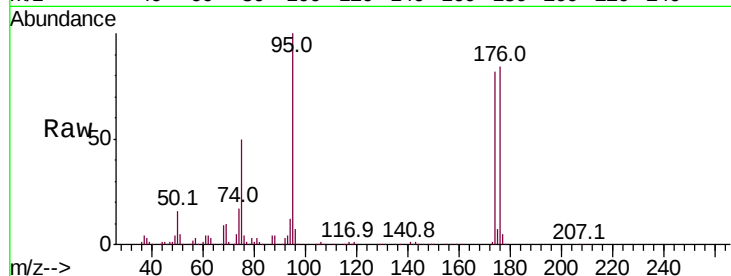
Tot Ion:173 Resp: 715

Ion Ratio Lower Upper

173 100

175 801.0 39.6 59.4#

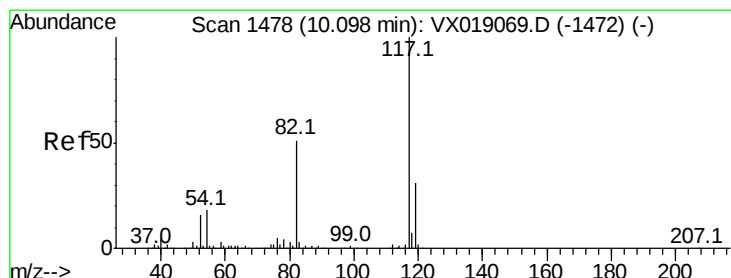
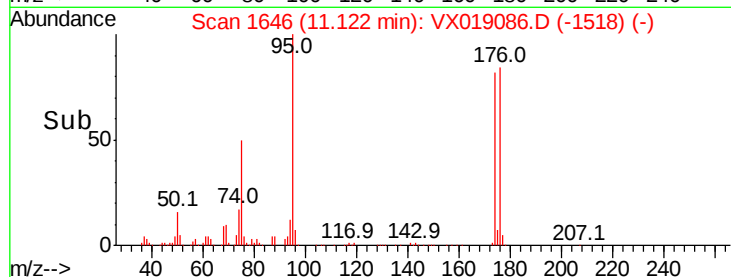
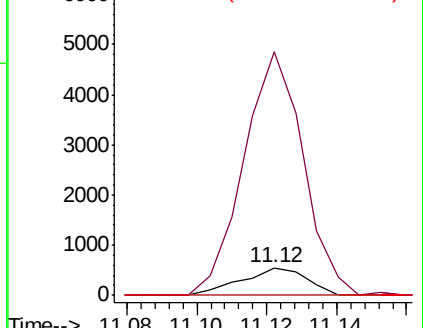
254 0.0 8.6 13.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

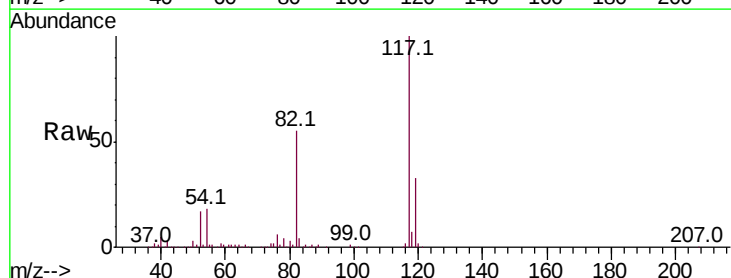
Tgt Ion:117 Resp: 206809

Ion Ratio Lower Upper

117 100

82 54.5 42.5 63.7

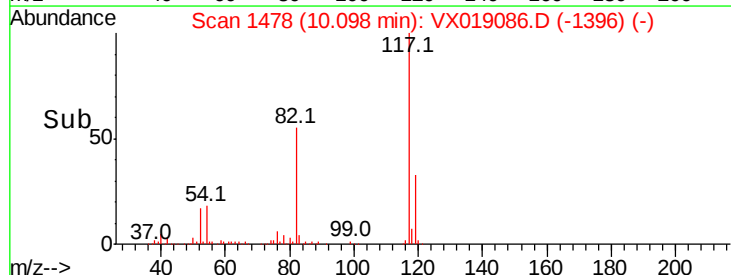
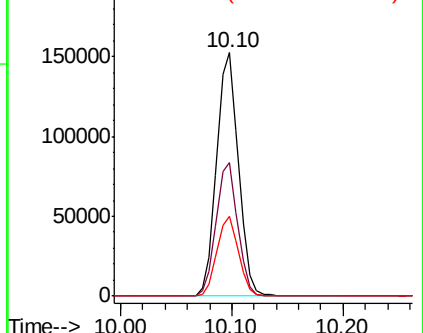
119 32.3 25.6 38.4

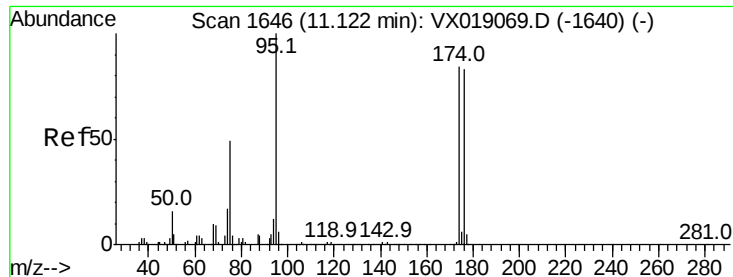


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

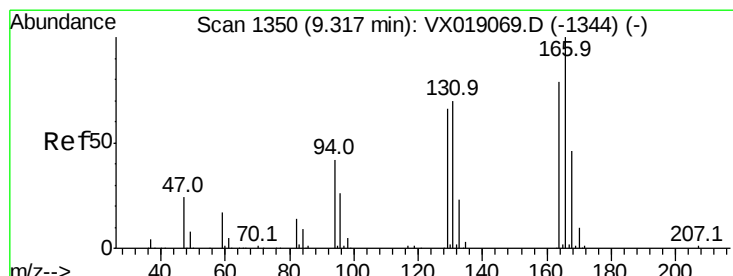
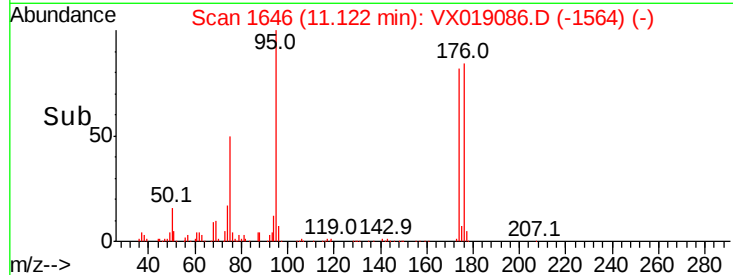
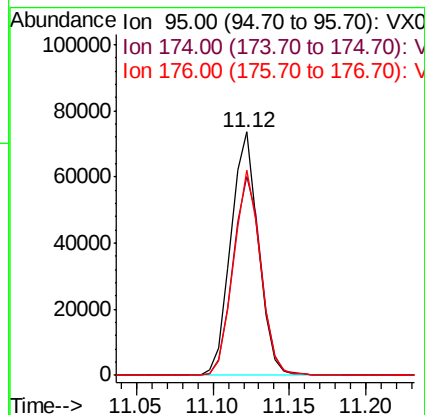
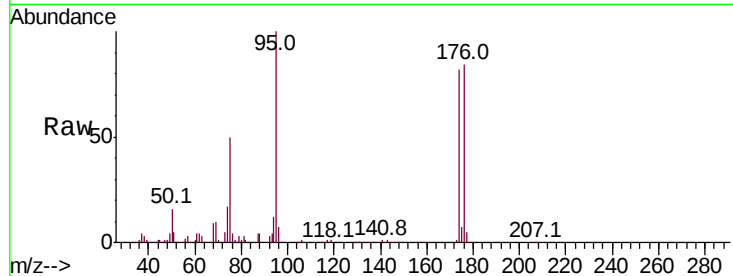




#60
4-Bromofluorobenzene
Concen: 29.660 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019086.D
Acq: 23 Oct 2020 19:08

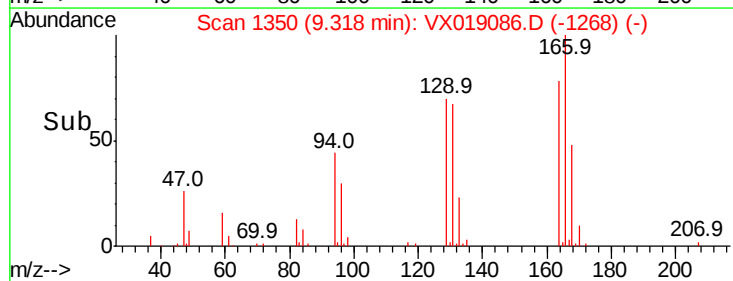
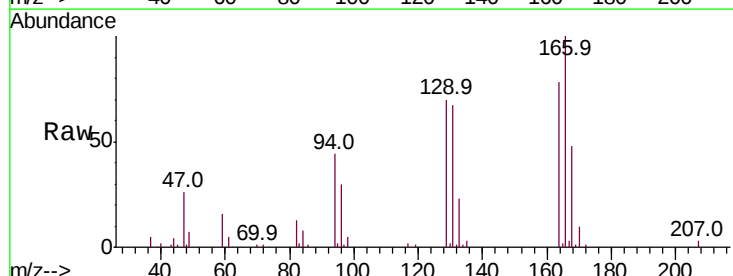
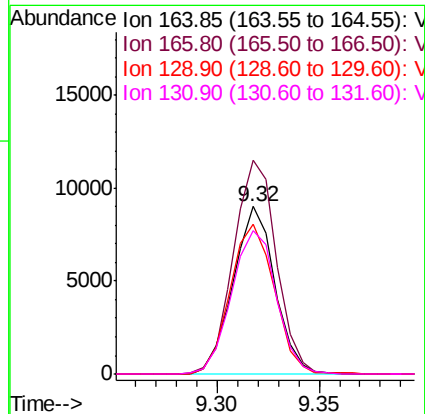
Instrument :
MSVOA_X
ClientSampleId :
TT-021-IDW/GW-20201019

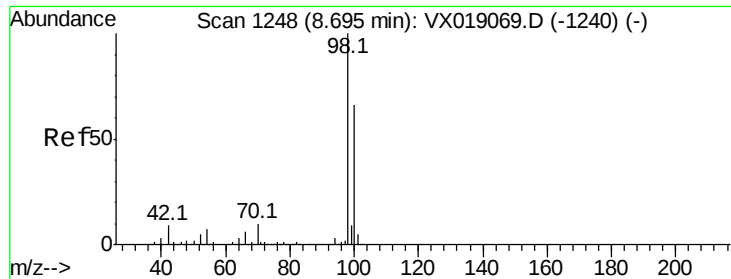
Tot Ion	Ratio	Lower	Upper
95	100		
174	83.1	66.3	99.5
176	82.0	65.5	98.3



#61
Tetrachloroethene
Concen: 5.222 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX019086.D
Acq: 23 Oct 2020 19:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.9	152.9
129	89.4	67.0	100.6
131	85.8	71.1	106.7





#63

Toluene-d8

Concen: 30.310 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

Instrument :

MSVOA_X

ClientSampleId :

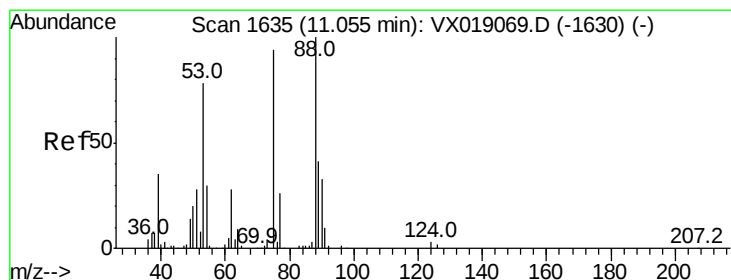
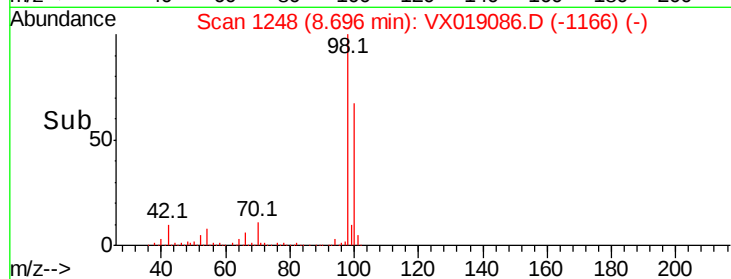
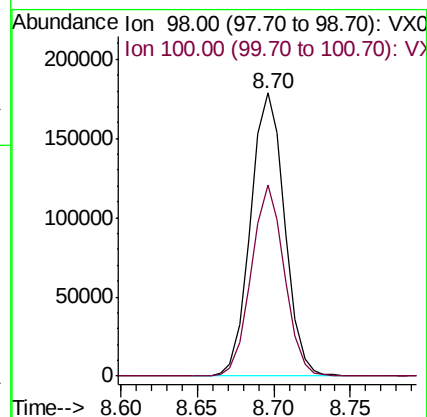
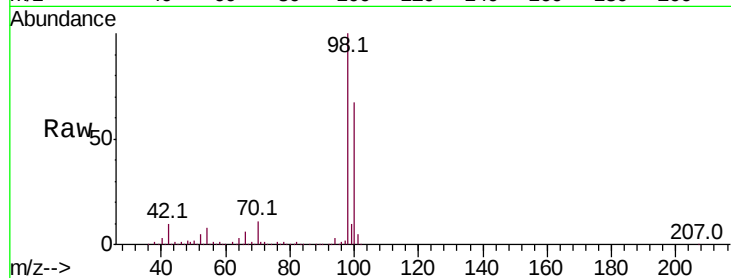
TT-021-IDW/GW-20201019

Tot Ion: 98 Resp: 276761

Ion Ratio Lower Upper

98 100

100 65.7 52.2 78.4



#77

t-1,4-Dichloro-2-butene

Concen: 38.792 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019086.D

Acq: 23 Oct 2020 19:08

Tgt Ion: 75 Resp: 46611

Ion Ratio Lower Upper

75 100

53 0.0 41.6 124.8#

89 0.0 21.8 65.3#

