

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019480.D
 Acq On : 19 Nov 2020 20:51
 Operator : JC/MD
 Sample : L4820-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-023-IDWGW-20201118

Quant Time: Nov 20 01:38:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 20 01:06:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	46599	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	248574	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	229796	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	101869	30.42	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.40%
60) 4-Bromofluorobenzene	11.12	95	101969	27.21	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.70%
63) Toluene-d8	8.70	98	301509	29.44	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.13%

Target Compounds

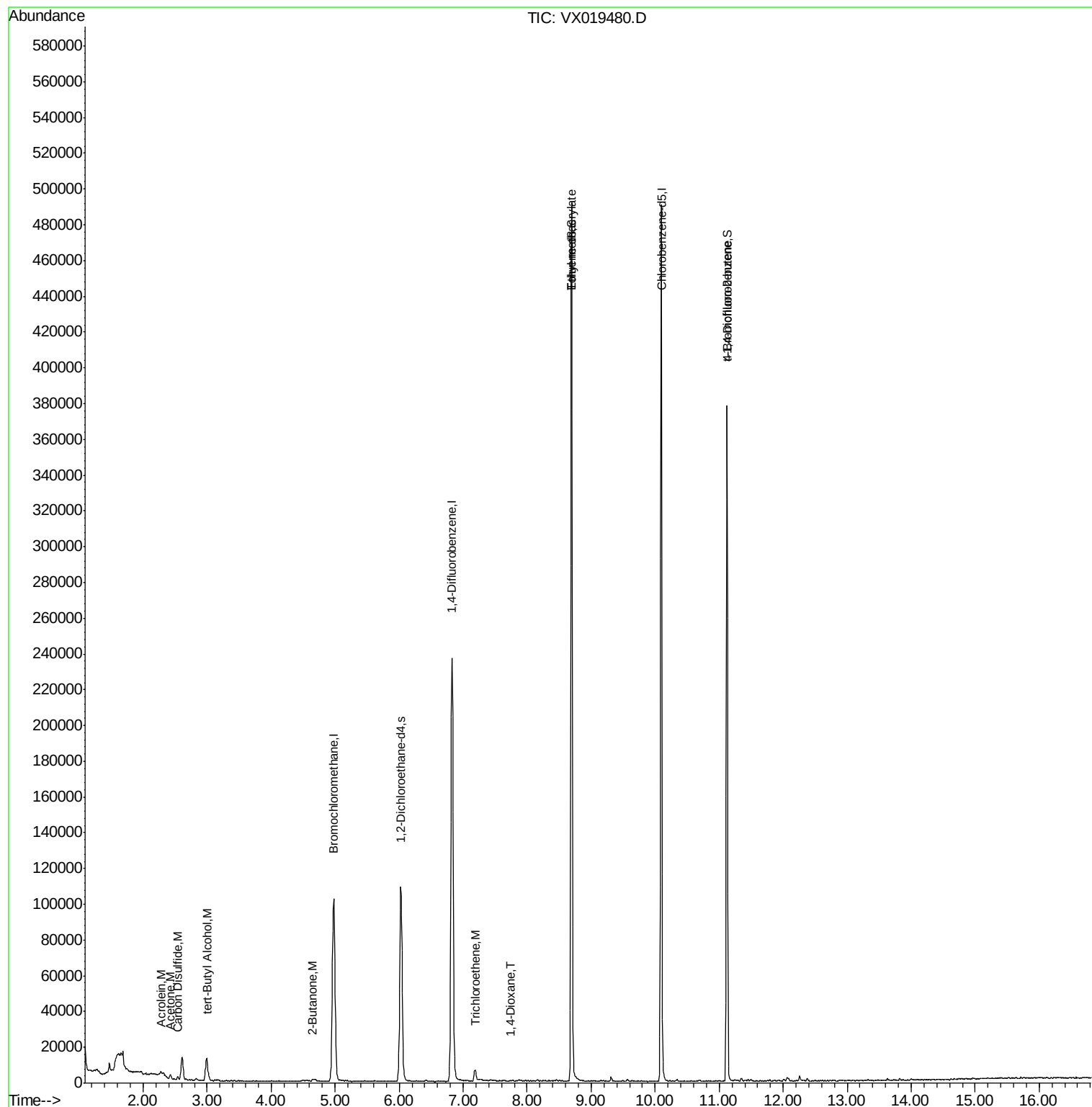
					Ovalue
13) Acrolein	2.28	56	162	0.350 ug/l	96
15) Acetone	2.43	58	869	1.983 ug/l	74
16) Carbon Disulfide	2.54	76	2075	0.304 ug/l #	93
23) tert-Butyl Alcohol	3.00	59	8416	12.988 ug/l #	99
30) 2-Butanone	4.64	43	562	0.291 ug/l #	72
37) Trichloroethene	7.19	130	2100	0.668 ug/l	86
45) 1,4-Dioxane	7.74	88	43	0.636 ug/l #	1
51) Ethyl methacrylate	8.70	69	1143	0.262 ug/l	93
77) t-1,4-Dichloro-2-butene	11.12	75	50429	35.372 ug/l #	11

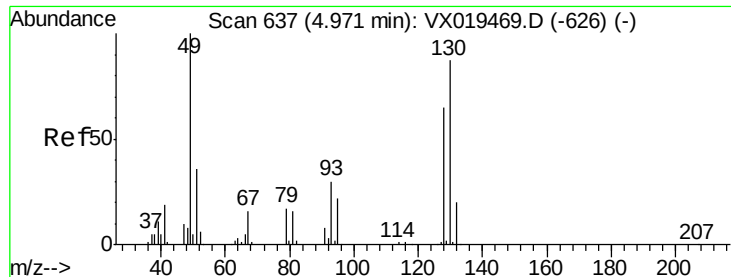
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :
TT-023-IDW/GW-20201118

Quant Time: Nov 20 01:38:23 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 20 01:06:02 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 638

Delta R.T. 0.01 min

Lab File: VX019480.D

Acq: 19 Nov 2020 20:51

Instrument :

MSVOA_X

ClientSampleId :

TT-023-IDW/GW-20201118

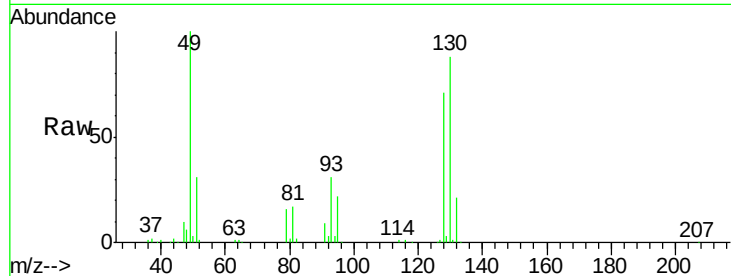
Tot Ion:128 Resp: 46599

Ion Ratio Lower Upper

128 100

49 147.4 0.0 377.8

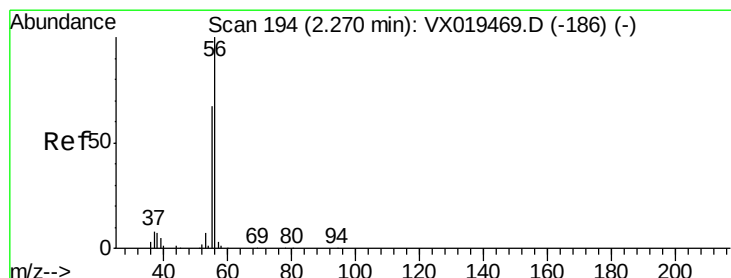
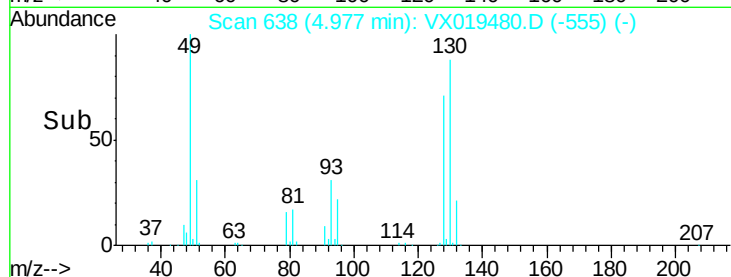
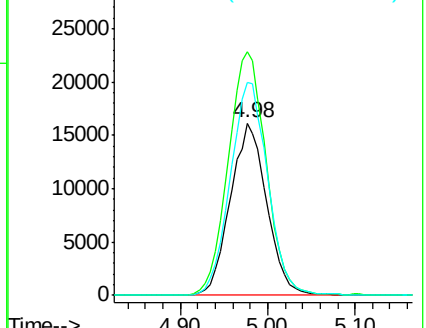
130 127.3 0.0 324.0



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



#13

Acrolein

Concen: 0.350 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX019480.D

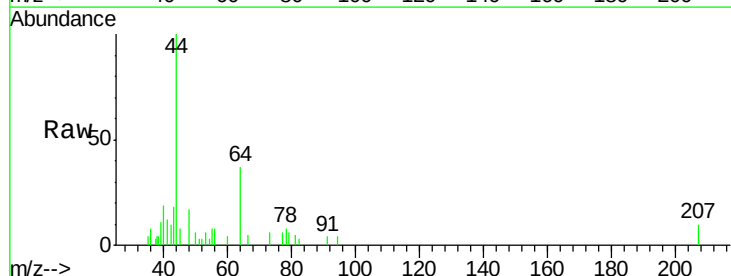
Acq: 19 Nov 2020 20:51

Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

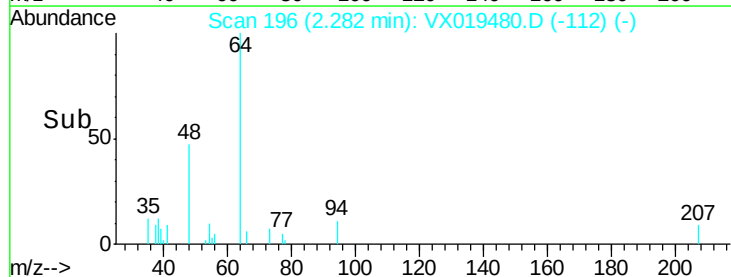
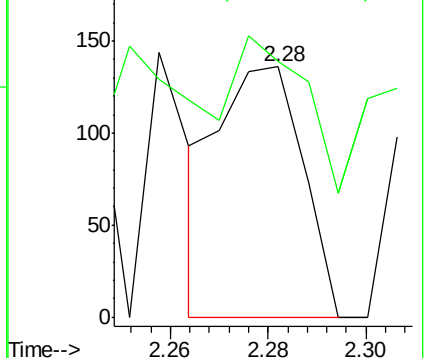
56 100

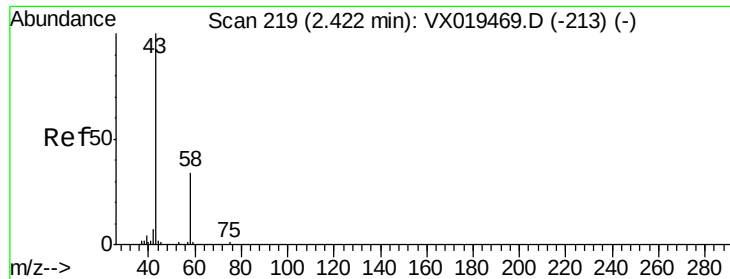
55 67.3 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 1.983 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019480.D

Acq: 19 Nov 2020 20:51

Instrument :

MSVOA_X

ClientSampleId :

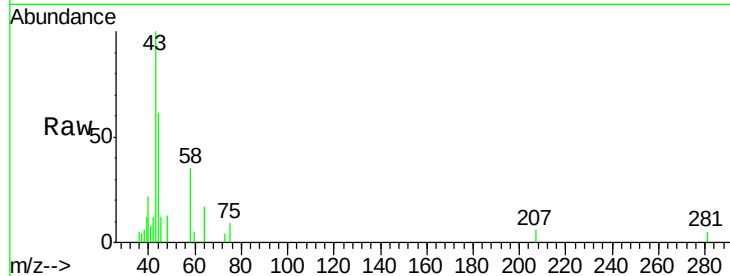
TT-023-IDW/GW-20201118

Tot Ion: 58 Resp: 869

Ion Ratio Lower Upper

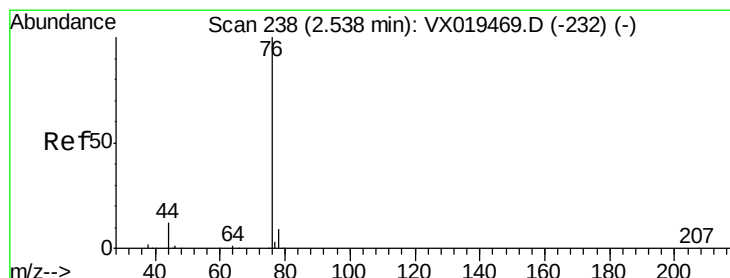
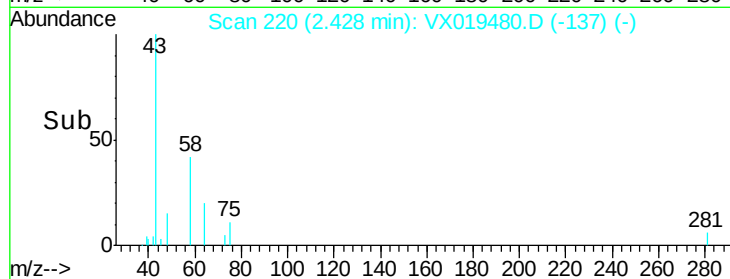
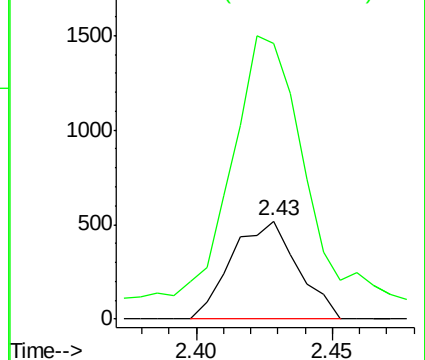
58 100

43 244.5 236.3 354.5



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.304 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VX019480.D

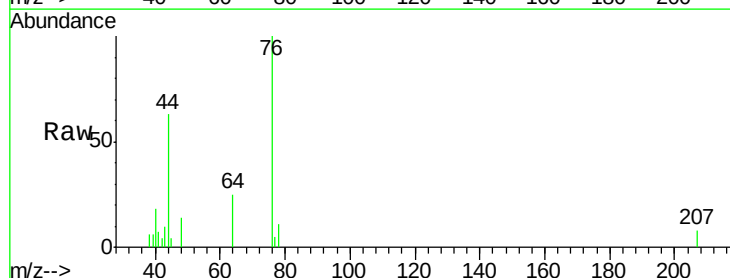
Acq: 19 Nov 2020 20:51

Tgt Ion: 76 Resp: 2075

Ion Ratio Lower Upper

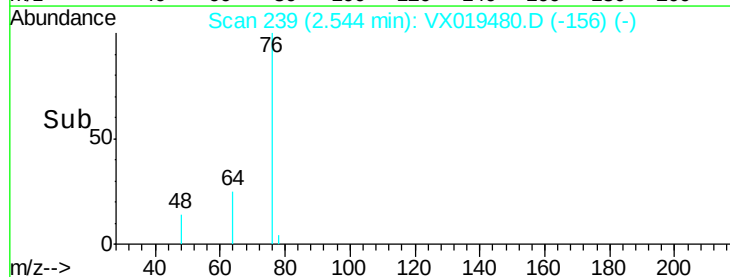
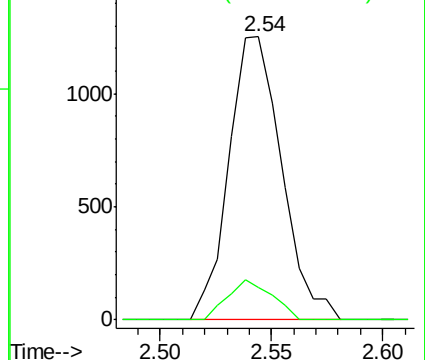
76 100

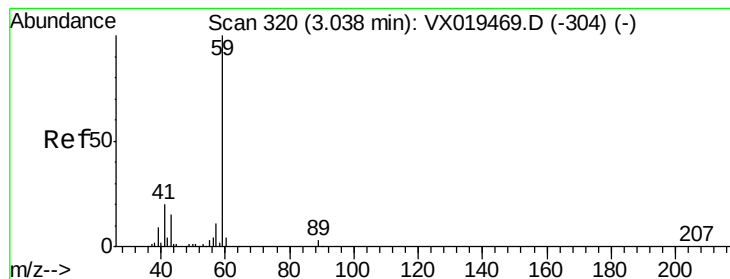
78 11.3 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#23

tert-Butyl Alcohol

Concen: 12.988 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.04 min

Lab File: VX019480.D

Acq: 19 Nov 2020 20:51

Instrument :

MSVOA_X

ClientSampleId :

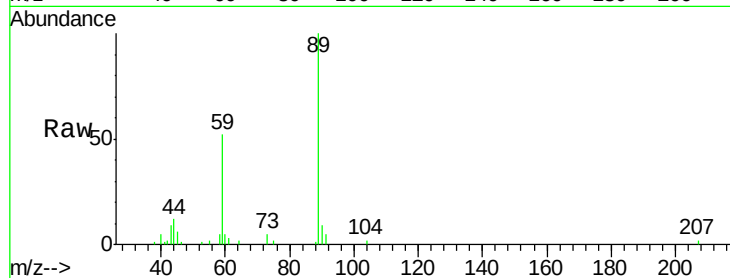
TT-023-IDW/GW-20201118

Tot Ion: 59 Resp: 8416

Ion Ratio Lower Upper

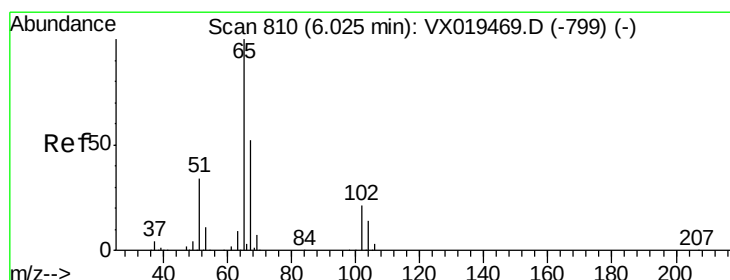
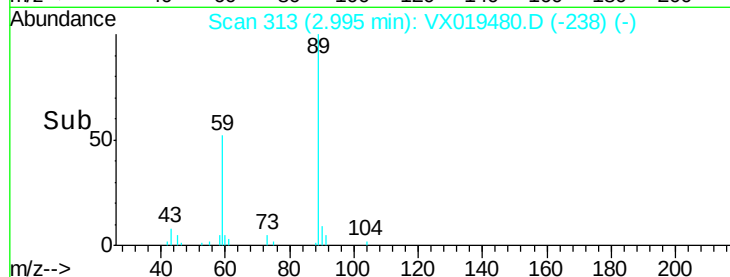
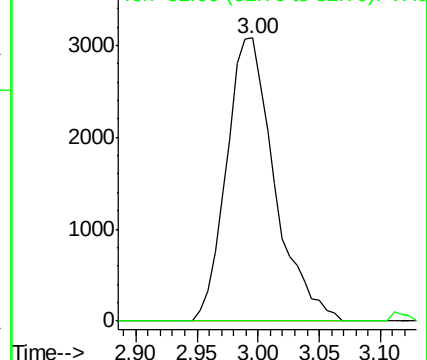
59 100

52 1.0 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.416 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX019480.D

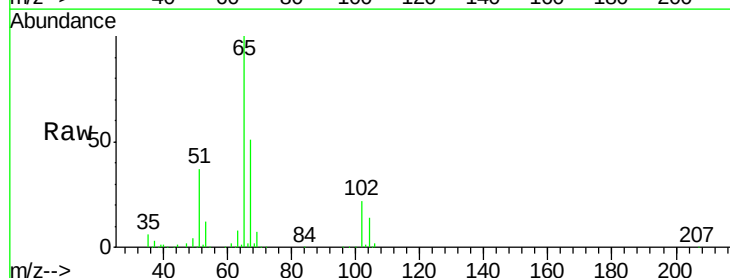
Acq: 19 Nov 2020 20:51

Tgt Ion: 65 Resp: 101869

Ion Ratio Lower Upper

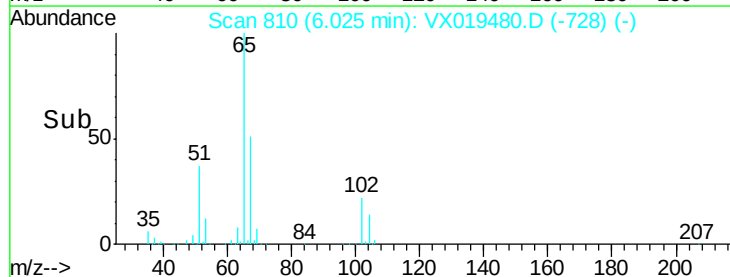
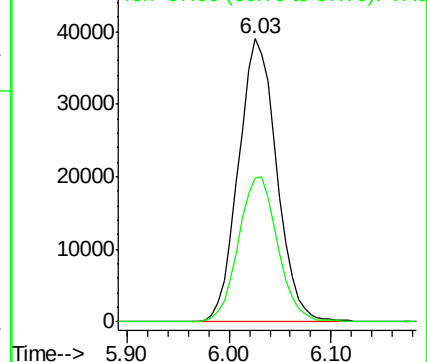
65 100

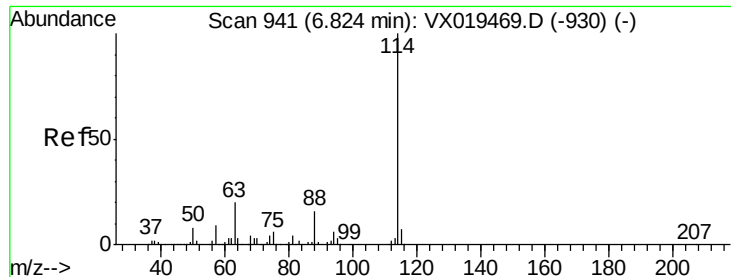
67 52.6 42.2 63.2



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

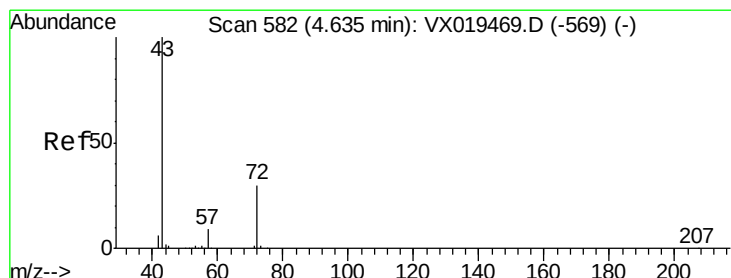
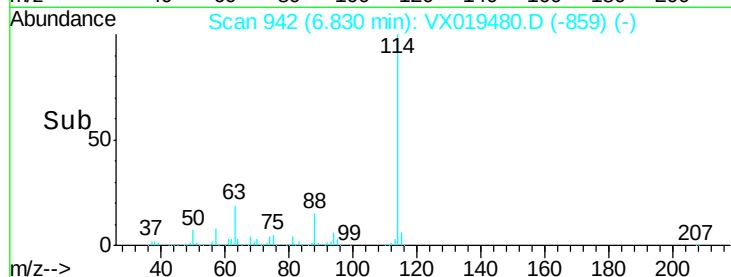
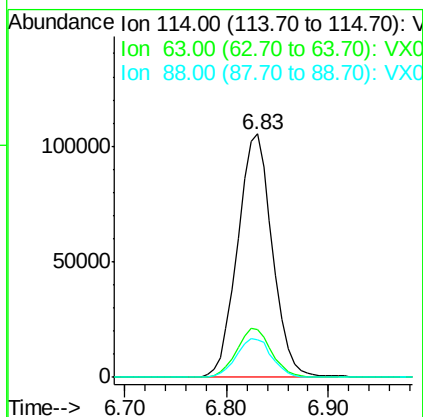
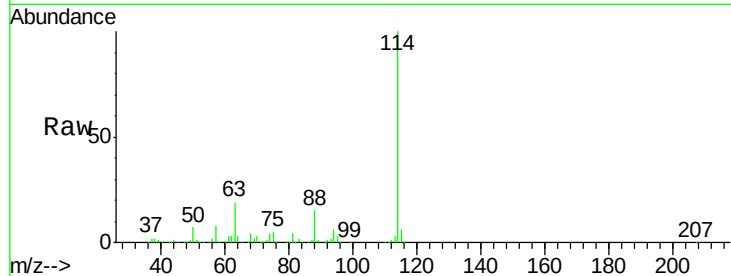




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019480.D
 Acq: 19 Nov 2020 20:51

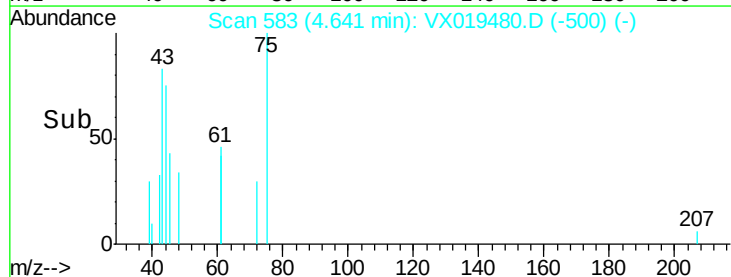
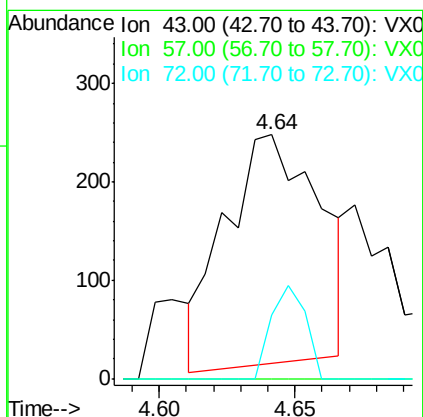
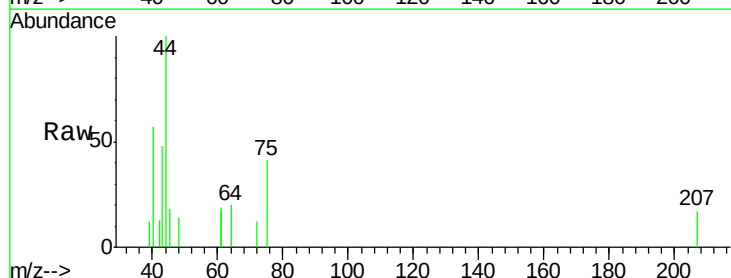
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-023-IDW/GW-20201118

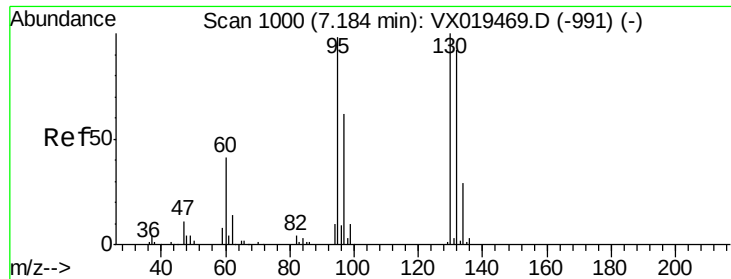
Tot Ion:114 Resp: 248574
 Ion Ratio Lower Upper
 114 100
 63 20.2 16.2 24.2
 88 16.3 12.9 19.3



#30
 2-Butanone
 Concen: 0.291 ug/l
 RT: 4.64 min Scan# 583
 Delta R.T. 0.01 min
 Lab File: VX019480.D
 Acq: 19 Nov 2020 20:51

Tgt Ion: 43 Resp: 562
 Ion Ratio Lower Upper
 43 100
 57 0.0 7.4 11.0#
 72 14.8 24.2 36.2#

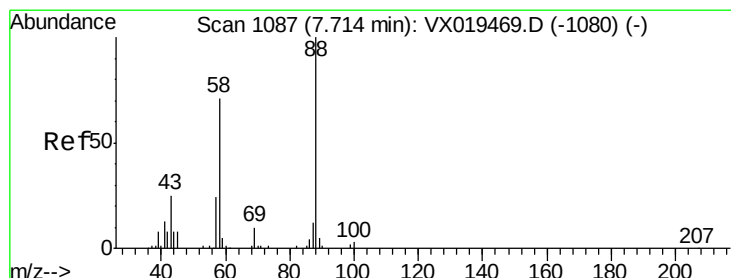
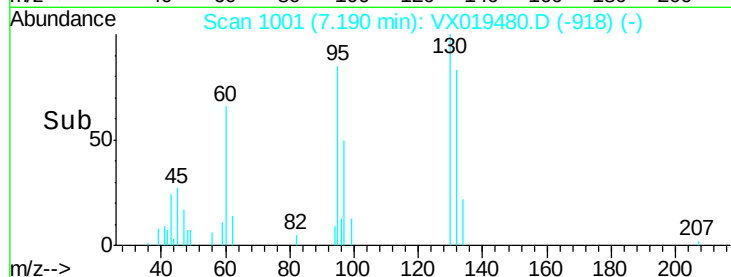
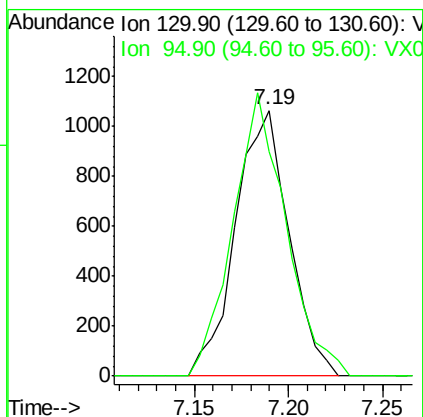
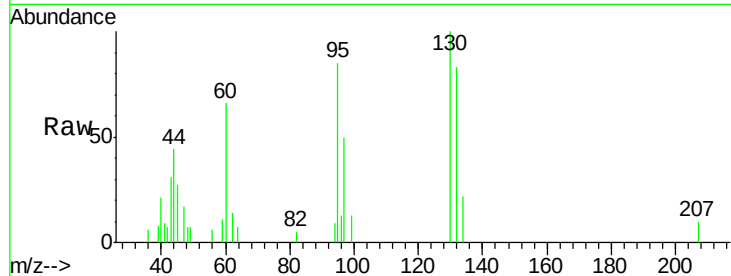




#37
 Trichloroethene
 Concen: 0.668 ug/l
 RT: 7.19 min Scan# 1001
 Delta R.T. 0.01 min
 Lab File: VX019480.D
 Acq: 19 Nov 2020 20:51

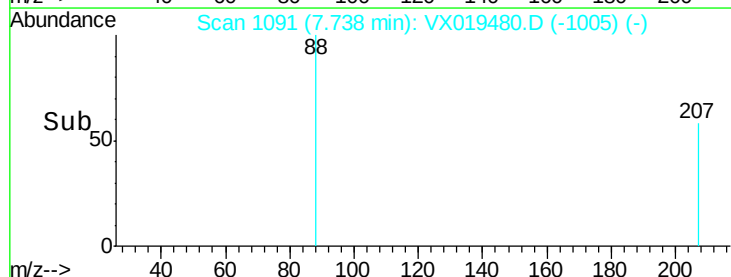
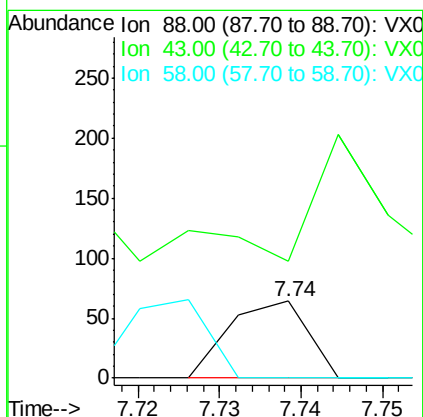
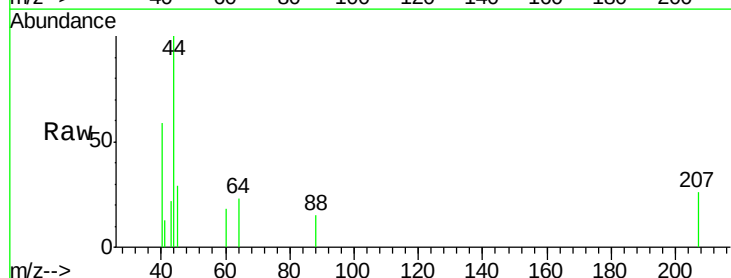
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-023-IDW/GW-20201118

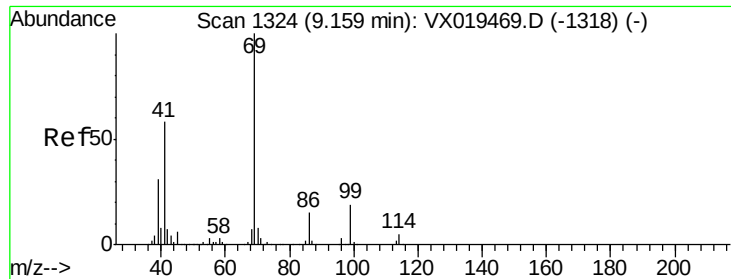
Tot Ion:130 Resp: 2100
 Ion Ratio Lower Upper
 130 100
 95 84.7 78.8 118.2



#45
 1,4-Dioxane
 Concen: 0.636 ug/l
 RT: 7.74 min Scan# 1091
 Delta R.T. 0.02 min
 Lab File: VX019480.D
 Acq: 19 Nov 2020 20:51

Tgt Ion: 88 Resp: 43
 Ion Ratio Lower Upper
 88 100
 43 134.9 24.2 36.4#
 58 0.0 56.6 84.8#





#51

Ethyl methacrylate

Concen: 0.262 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.46 min

Lab File: VX019480.D

Acq: 19 Nov 2020 20:51

Instrument :

MSVOA_X

ClientSampleId :

TT-023-IDW/GW-20201118

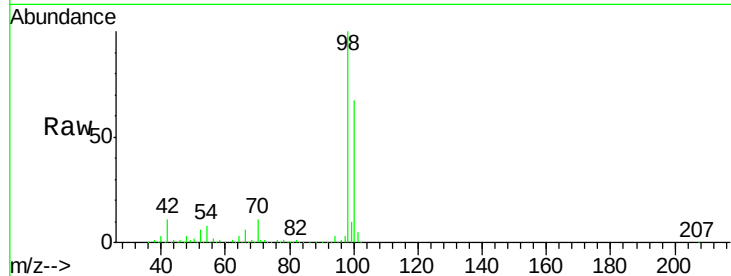
Tot Ion: 69 Resp: 1143

Ion Ratio Lower Upper

69 100

41 61.8 29.0 87.1

39 25.1 15.4 46.4



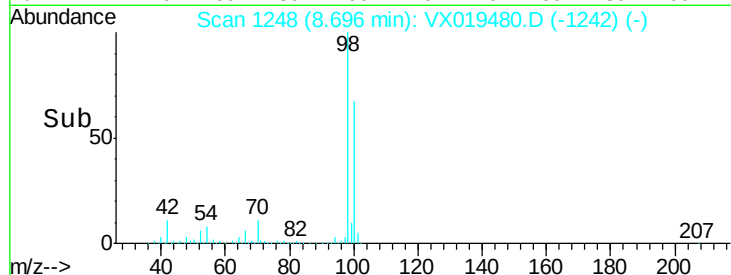
Abundance Ion 69.00 (68.70 to 69.70): VX019469.D (-1318) (-)

Ion 41.00 (40.70 to 41.70): VX019469.D (-1318) (-)

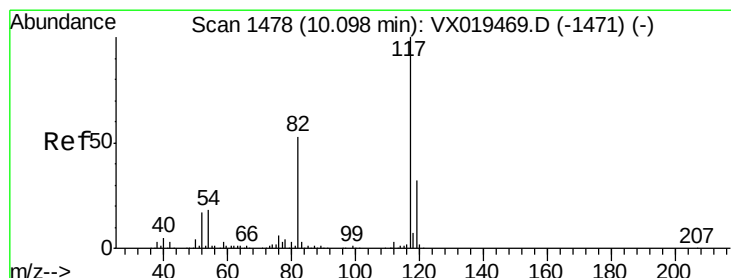
Ion 39.00 (38.70 to 39.70): VX019469.D (-1318) (-)

8.70

8.65 8.70 8.75



Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX019480.D

Acq: 19 Nov 2020 20:51

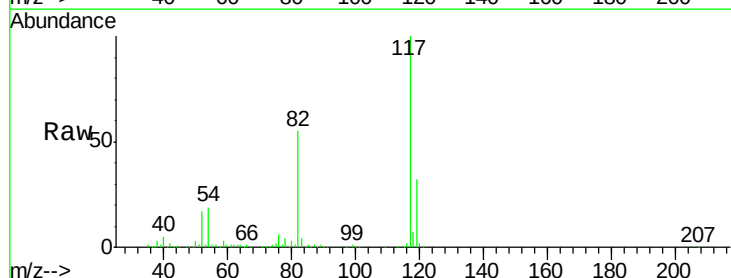
Tgt Ion: 117 Resp: 229796

Ion Ratio Lower Upper

117 100

82 57.0 44.5 66.7

119 32.4 25.9 38.9



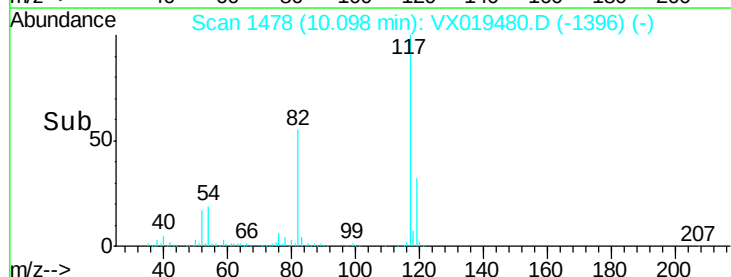
Abundance Ion 117.00 (116.70 to 117.70): VX019469.D (-1471) (-)

Ion 82.00 (81.70 to 82.70): VX019469.D (-1471) (-)

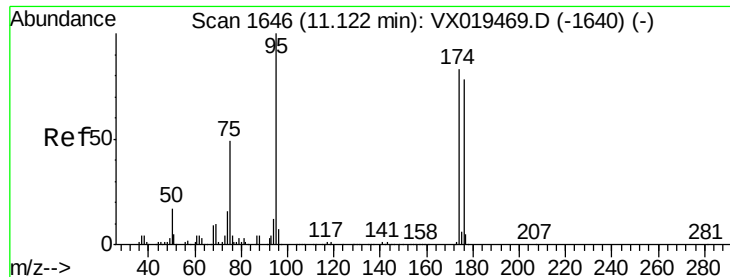
Ion 119.00 (118.70 to 119.70): VX019469.D (-1471) (-)

10.10

10.00 10.10 10.20



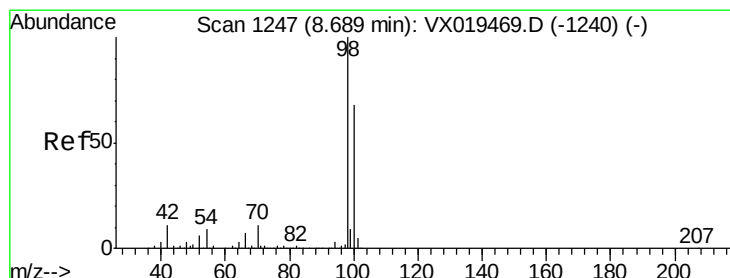
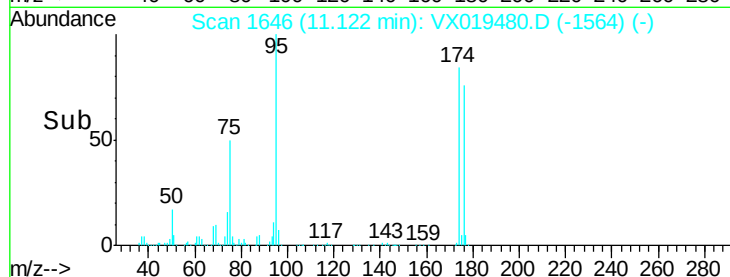
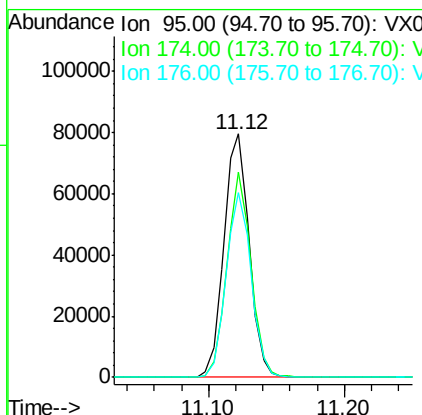
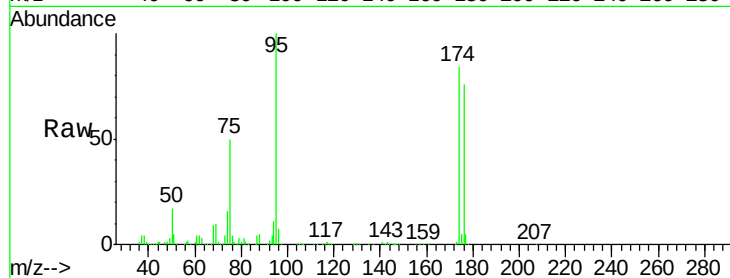
Time-->



#60
4-Bromofluorobenzene
Concen: 27.209 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019480.D
Acq: 19 Nov 2020 20:51

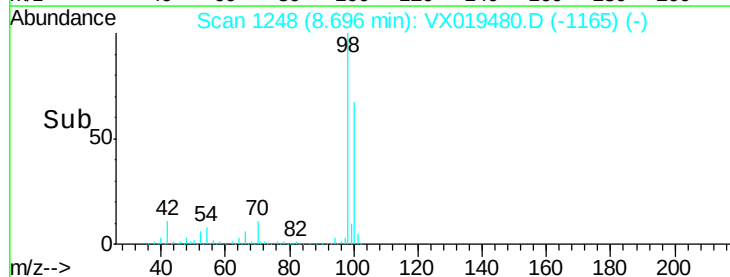
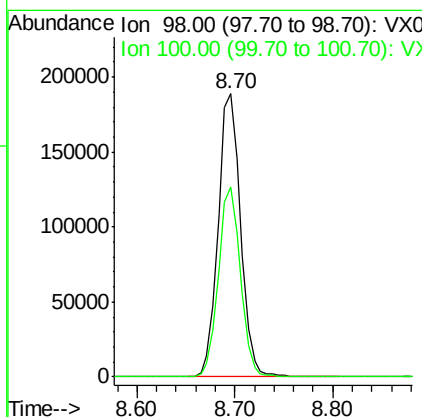
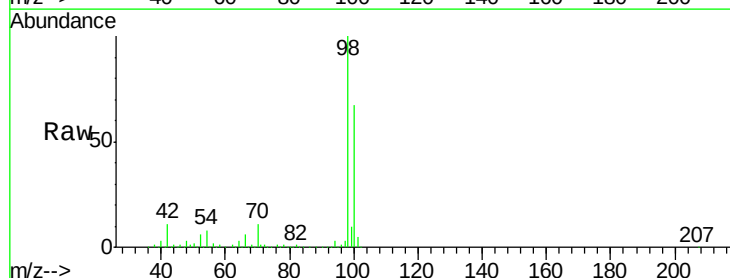
Instrument :
MSVOA_X
ClientSampleId :
TT-023-IDWGW-20201118

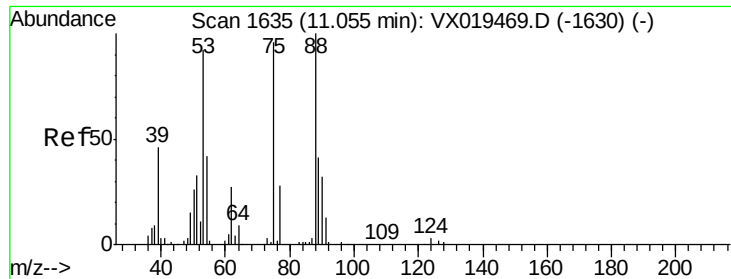
Tot Ion: 95 Resp: 101969
Ion Ratio Lower Upper
95 100
174 80.6 63.5 95.3
176 75.5 59.8 89.6



#63
Toluene-d8
Concen: 29.436 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.01 min
Lab File: VX019480.D
Acq: 19 Nov 2020 20:51

Tgt Ion: 98 Resp: 301509
Ion Ratio Lower Upper
98 100
100 65.9 53.6 80.4





#77
 t-1,4-Dichloro-2-butene
 Concen: 35.372 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019480.D
 Acq: 19 Nov 2020 20:51

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-023-IDW/GW-20201118

Tot Ion: 75 Resp: 50429
 Ion Ratio Lower Upper
 75 100
 53 0.0 47.9 143.6#
 89 0.0 21.4 64.2#

