

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\
 Data File : VX014077.D
 Acq On : 18 Dec 2019 03:01
 Operator : JC/SP
 Sample : K6353-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-014-IDWGW-20191216

Quant Time: Dec 18 07:23:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	87799	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	480099	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	413338	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	189986	30.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.70%
60) 4-Bromofluorobenzene	11.13	95	178024	26.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.90%
63) Toluene-d8	8.71	98	568916	30.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.63%

Target Compounds

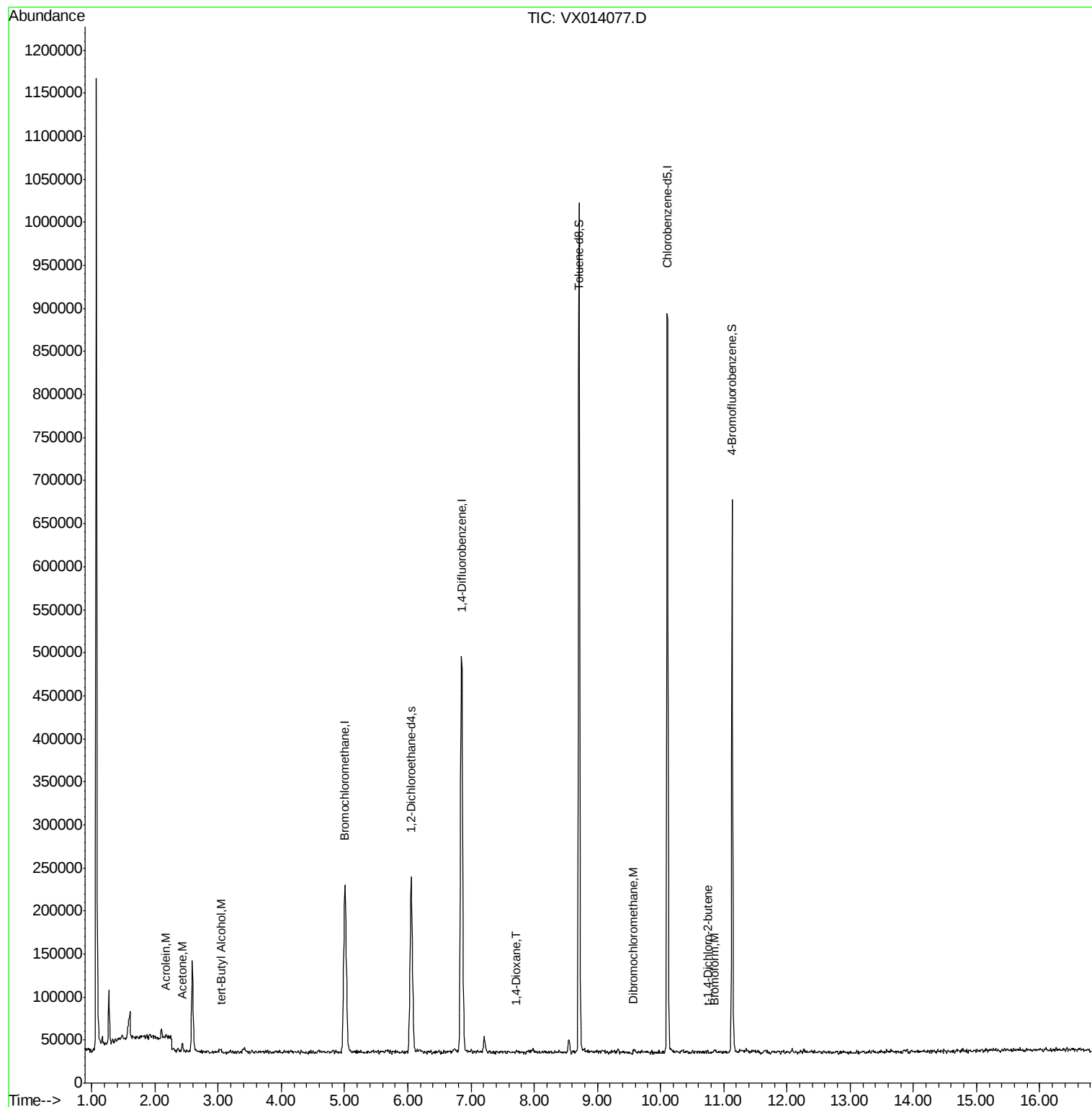
					Ovalue	
13) Acrolein	2.17	56	470	0.509	ug/l	91
15) Acetone	2.43	58	3430	3.924	ug/l	74
23) tert-Butyl Alcohol	3.05	59	397	0.340	ug/l #	70
45) 1,4-Dioxane	7.72	88	104	0.845	ug/l #	1
53) Dibromochloromethane	9.58	129	1963	0.355	ug/l	96
56) Bromoform	10.85	173	1144	0.265	ug/l #	85
77) t-1,4-Dichloro-2-butene	10.74	75	565	0.230	ug/l	96

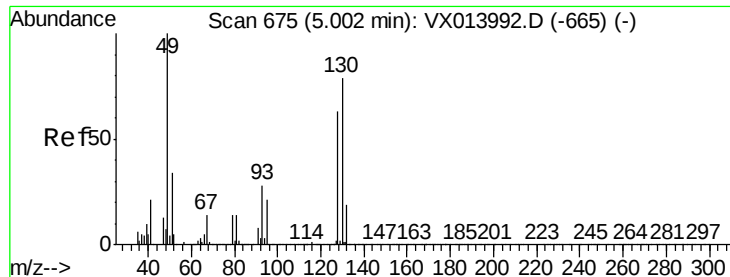
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 13 01:35:34 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014077.D

Acq: 18 Dec 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

TT-014-IDW/GW-20191216

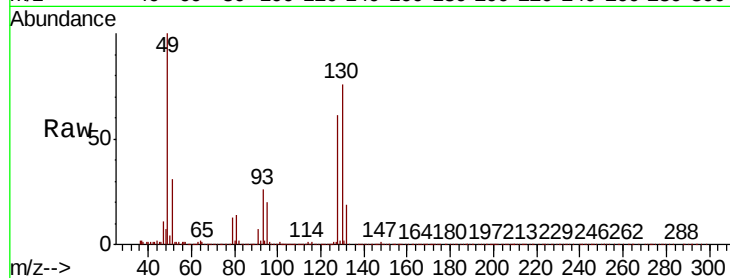
Tot Ion:128 Resp: 87799

Ion Ratio Lower Upper

128 100

49 165.4 0.0 405.0

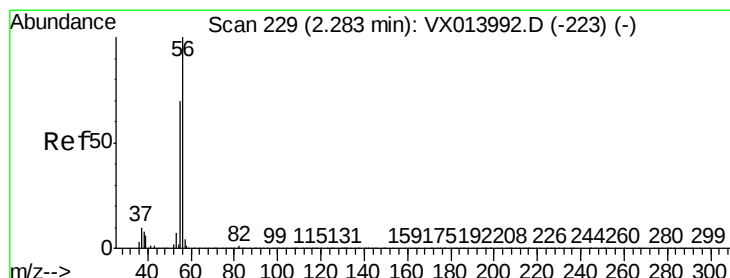
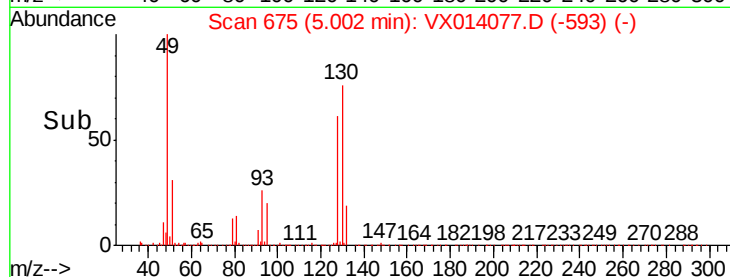
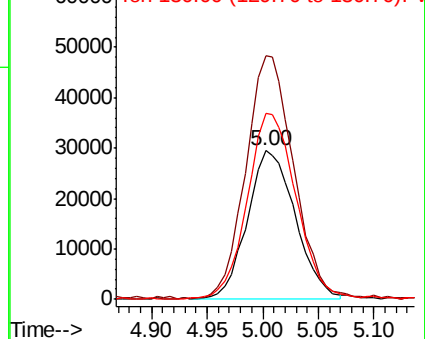
130 128.2 0.0 321.5



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: 0.509 ug/l

RT: 2.17 min Scan# 210

Delta R.T. -0.12 min

Lab File: VX014077.D

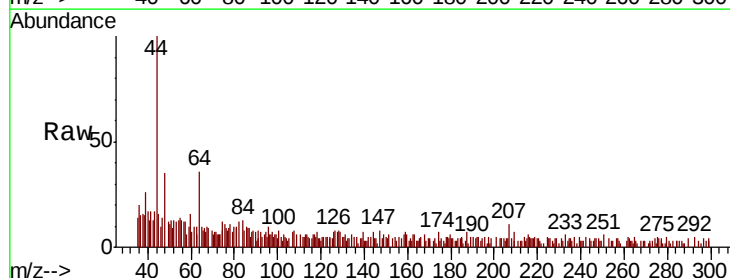
Acq: 18 Dec 2019 03:01

Tgt Ion: 56 Resp: 470

Ion Ratio Lower Upper

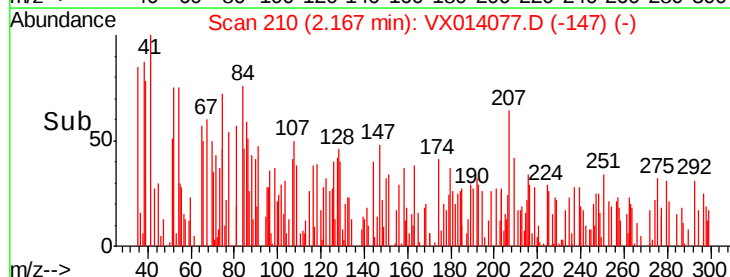
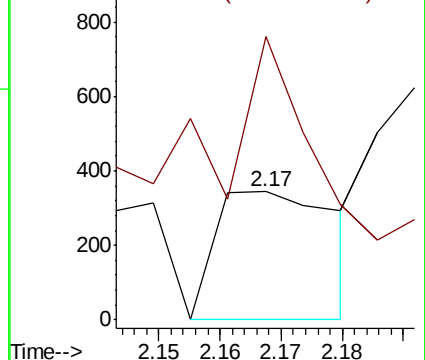
56 100

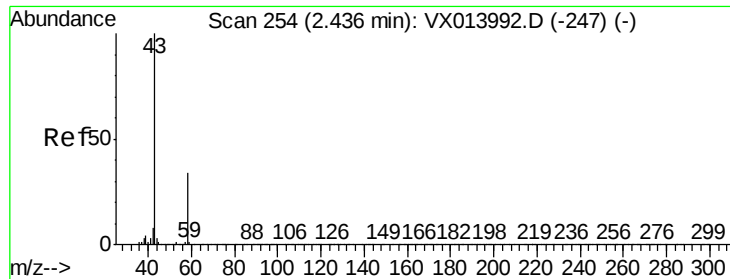
55 76.0 54.9 82.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

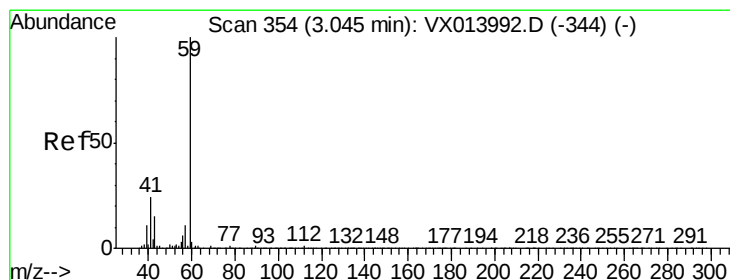
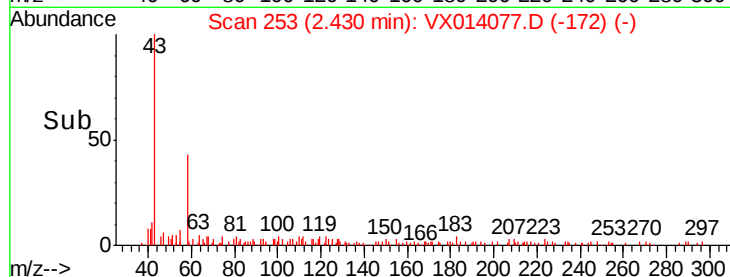
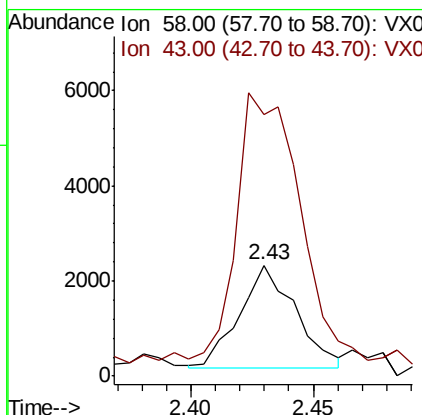
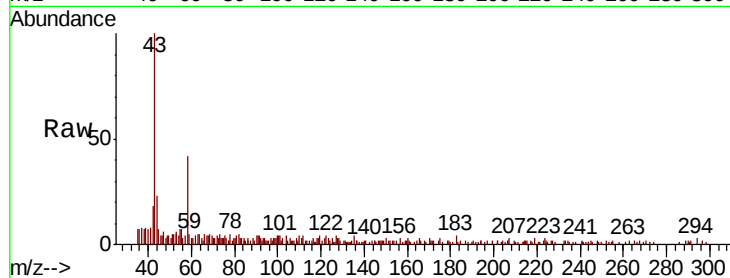




#15
Acetone
Concen: 3.924 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014077.D
Acq: 18 Dec 2019 03:01

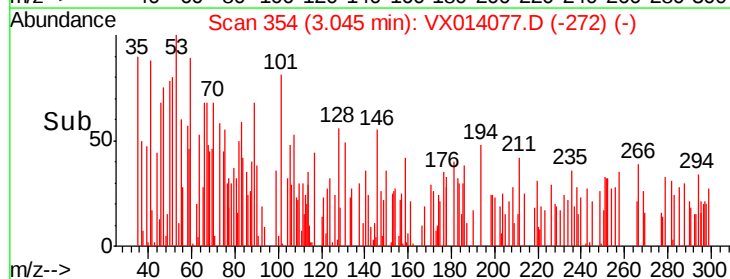
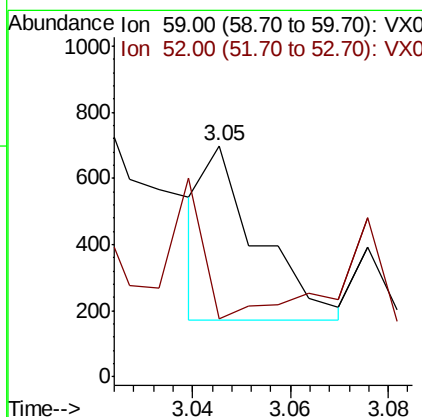
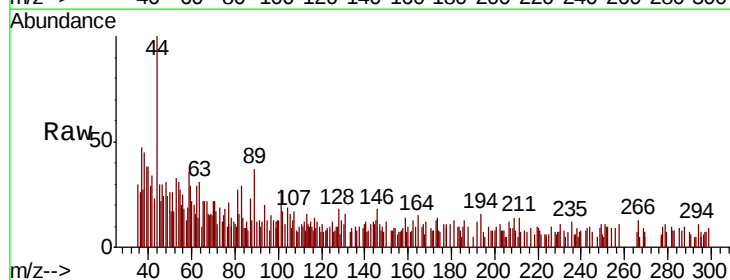
Instrument :
MSVOA_X
ClientSampleId :
TT-014-IDWGW-20191216

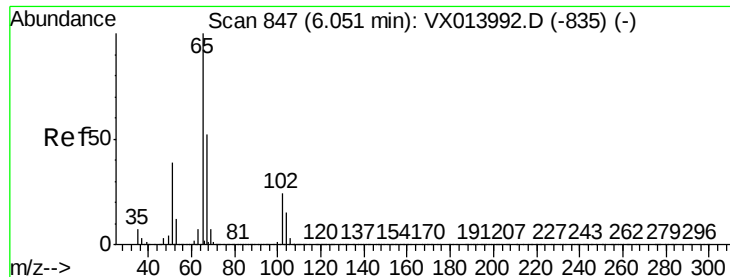
Tot Ion: 58 Resp: 3430
Ion Ratio Lower Upper
58 100
43 244.6 236.3 354.5



#23
tert-Butyl Alcohol
Concen: 0.340 ug/l
RT: 3.05 min Scan# 354
Delta R.T. 0.00 min
Lab File: VX014077.D
Acq: 18 Dec 2019 03:01

Tgt Ion: 59 Resp: 397
Ion Ratio Lower Upper
59 100
52 39.0 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 30.214 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014077.D

Acq: 18 Dec 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

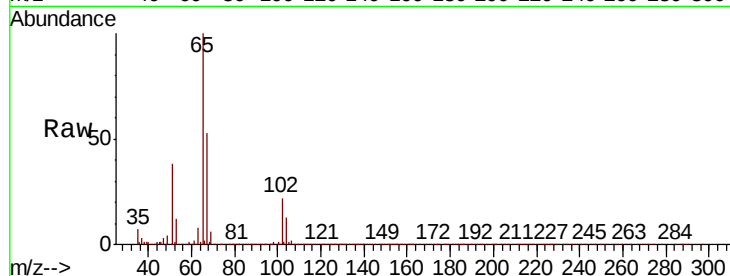
TT-014-IDWGW-20191216

Tot Ion: 65 Resp: 189986

Ion Ratio Lower Upper

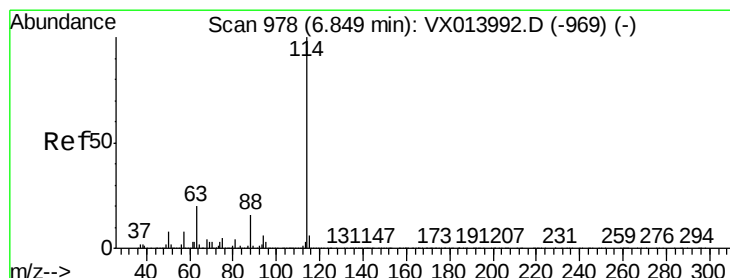
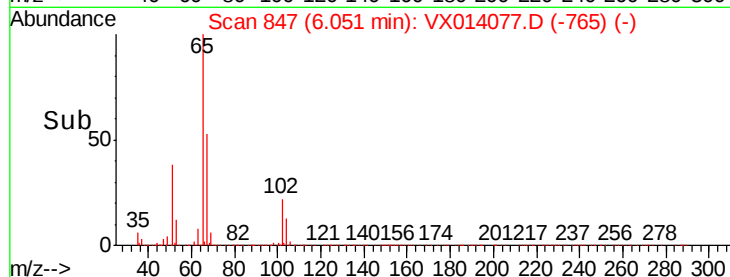
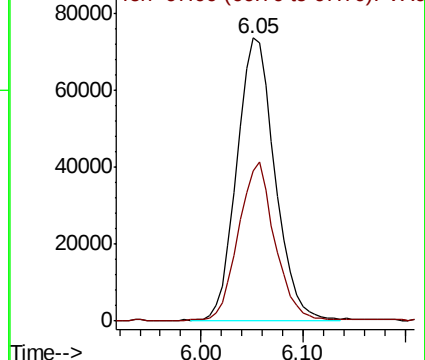
65 100

67 53.4 43.1 64.7



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014077.D

Acq: 18 Dec 2019 03:01

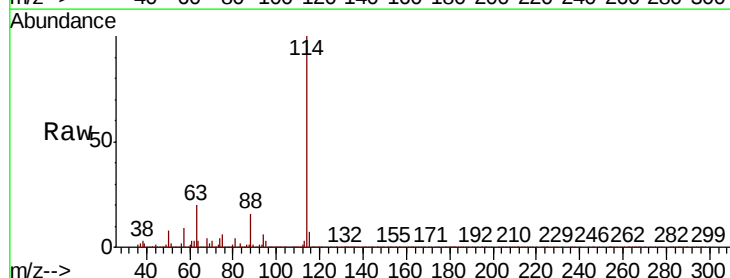
Tgt Ion: 114 Resp: 480099

Ion Ratio Lower Upper

114 100

63 20.2 16.1 24.1

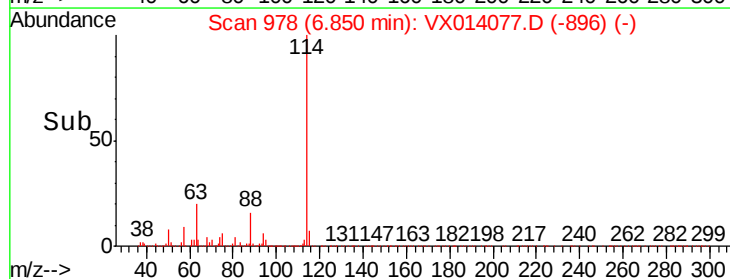
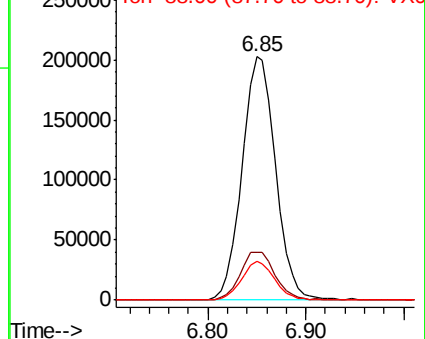
88 15.6 12.5 18.7

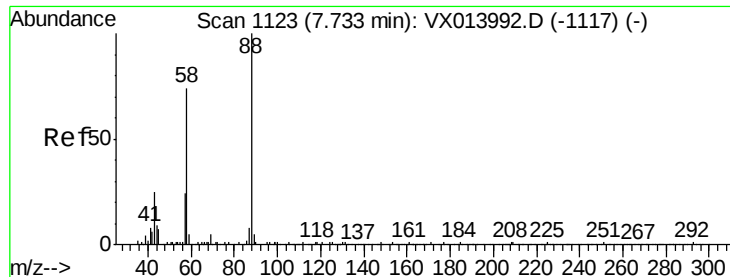


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#45

1,4-Dioxane

Concen: 0.845 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014077.D

Acq: 18 Dec 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

TT-014-IDW/GW-20191216

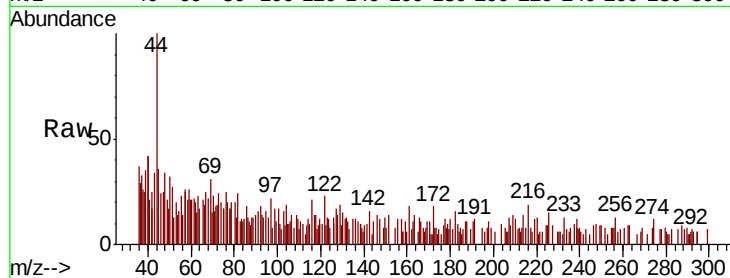
Tot Ion: 88 Resp: 104

Ion Ratio Lower Upper

88 100

43 102.9 25.4 38.2#

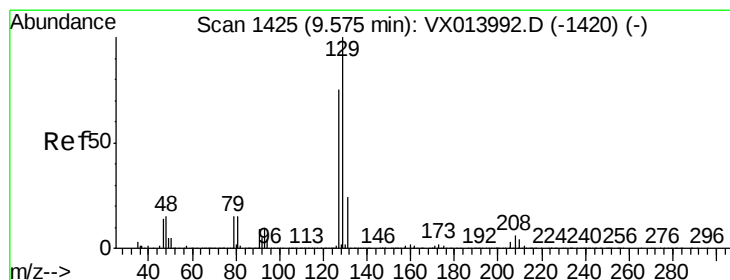
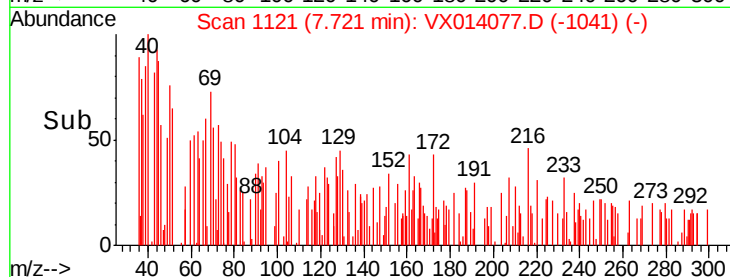
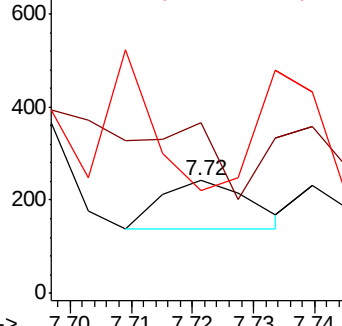
58 185.6 56.5 84.7#



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



#53

Dibromochloromethane

Concen: 0.355 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.01 min

Lab File: VX014077.D

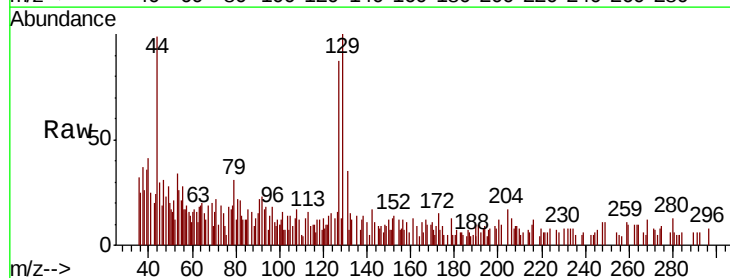
Acq: 18 Dec 2019 03:01

Tgt Ion: 129 Resp: 1963

Ion Ratio Lower Upper

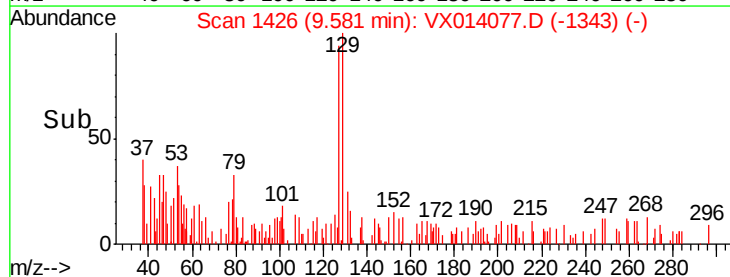
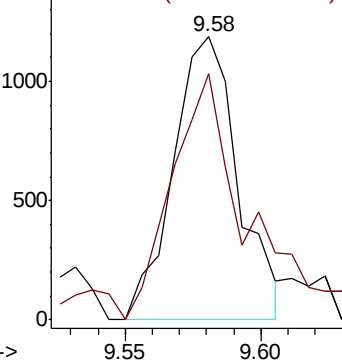
129 100

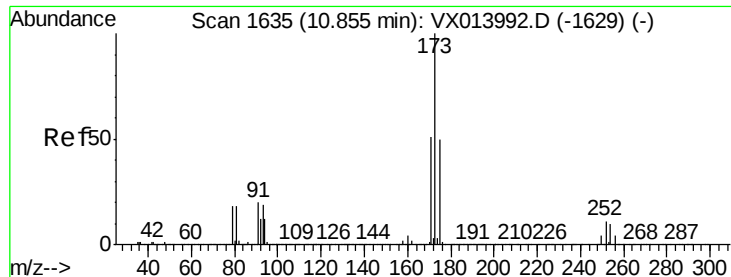
127 74.7 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#56

Bromoform

Concen: 0.265 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX014077.D

Acq: 18 Dec 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

TT-014-IDW/GW-20191216

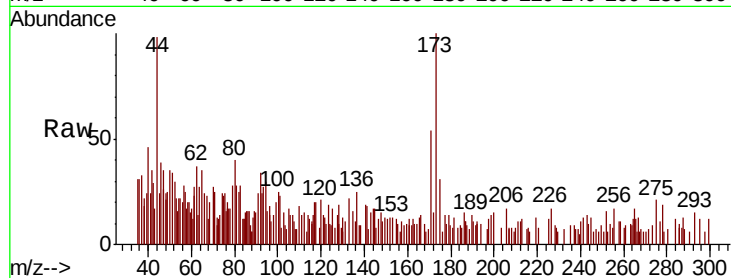
Tot Ion:173 Resp: 1144

Ion Ratio Lower Upper

173 100

175 39.5 39.5 59.3#

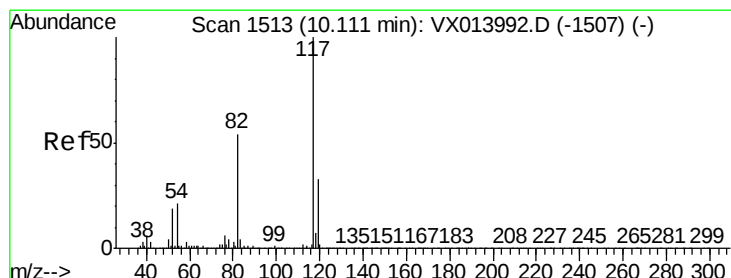
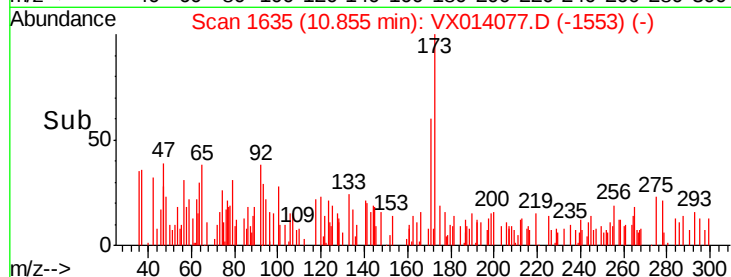
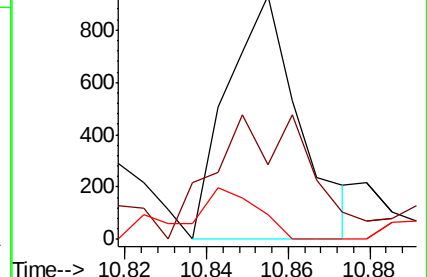
254 16.3 8.2 12.4#



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: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014077.D

Acq: 18 Dec 2019 03:01

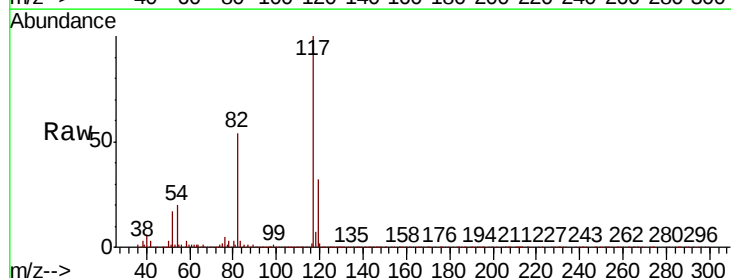
Tgt Ion:117 Resp: 413338

Ion Ratio Lower Upper

117 100

82 55.2 43.8 65.6

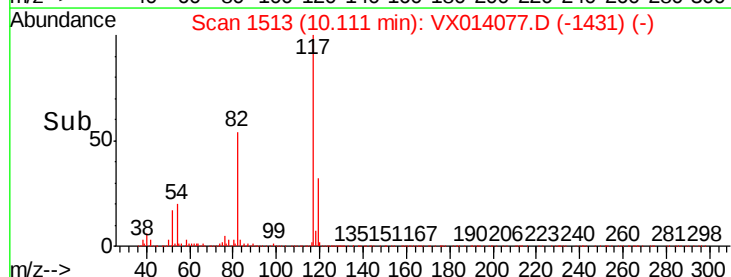
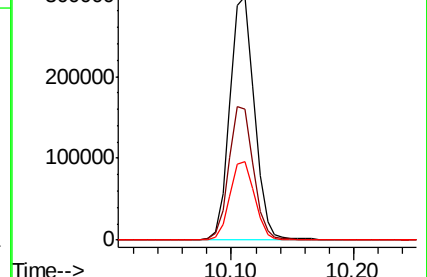
119 32.7 25.8 38.6

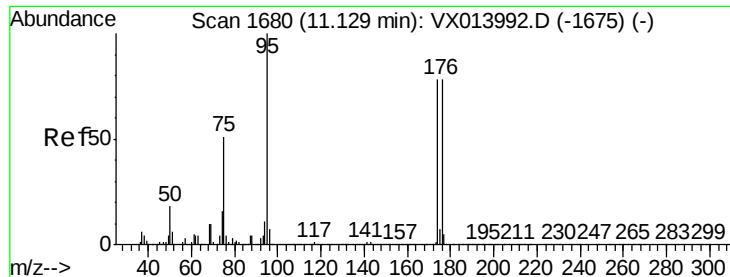


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

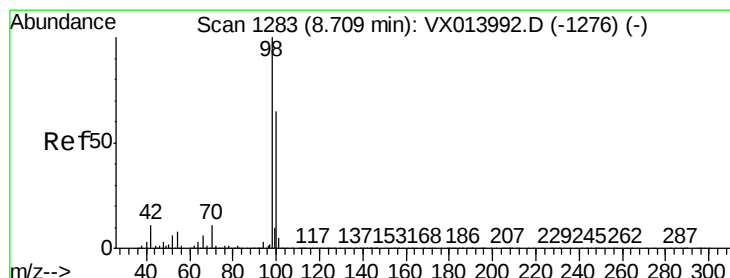
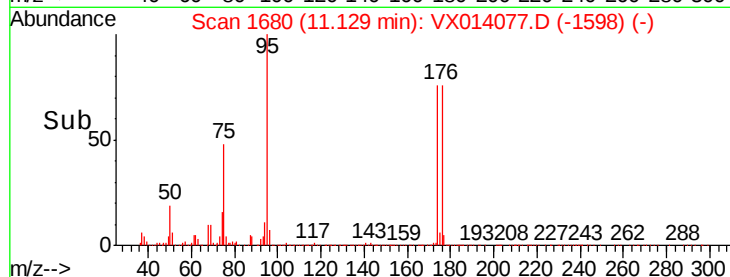
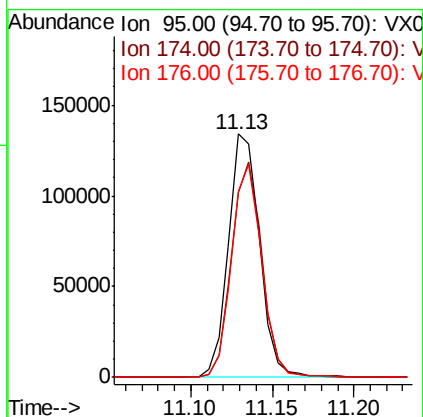
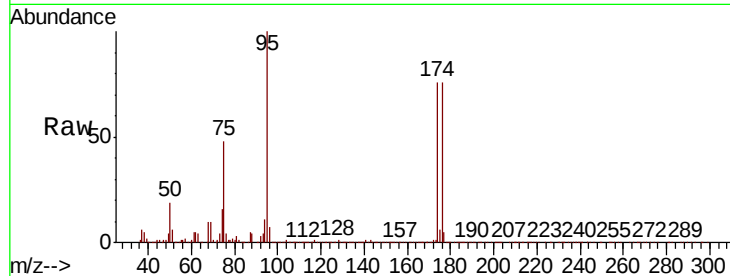




#60
4-Bromofluorobenzene
Concen: 26.672 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014077.D
Acq: 18 Dec 2019 03:01

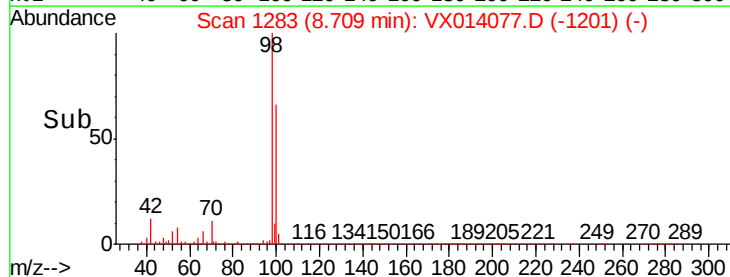
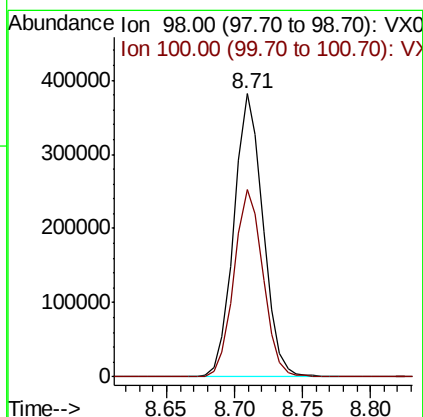
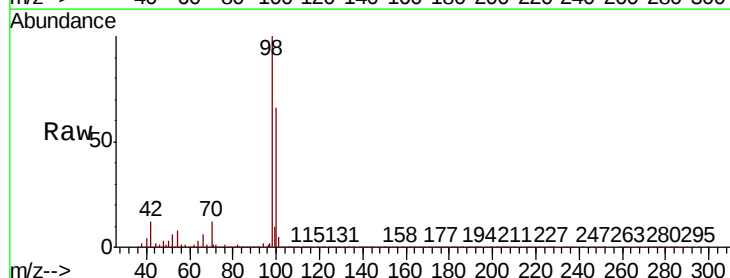
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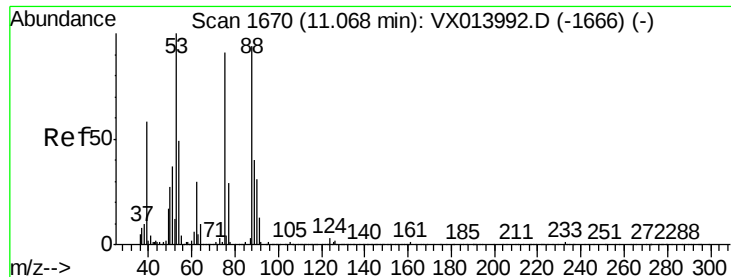
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.0	70.2	105.2
176	84.3	68.3	102.5



#63
Toluene-d8
Concen: 30.793 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014077.D
Acq: 18 Dec 2019 03:01

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.2	78.2





#77
t-1,4-Dichloro-2-butene
Concen: 0.230 ug/l
RT: 10.74 min Scan# 1616
Delta R.T. -0.33 min
Lab File: VX014077.D
Acq: 18 Dec 2019 03:01

Instrument :
MSVOA_X
ClientSampleId :
TT-014-IDW/GW-20191216

Tot Ion: 75 Resp: 565
Ion Ratio Lower Upper
75 100
53 112.6 54.4 163.1
89 41.2 21.9 65.5

