

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070919\
 Data File : VN056630.D
 Acq On : 9 Jul 2019 15:16
 Operator : JC/SP
 Sample : K3712-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-004-IDW/GW-20190708

Quant Time: Jul 10 01:28:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	50118	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	270778	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	222743	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	104716	30.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.03%
60) 4-Bromofluorobenzene	12.40	95	86537	25.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	84.27%
63) Toluene-d8	10.09	98	317045	30.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.10%

Target Compounds

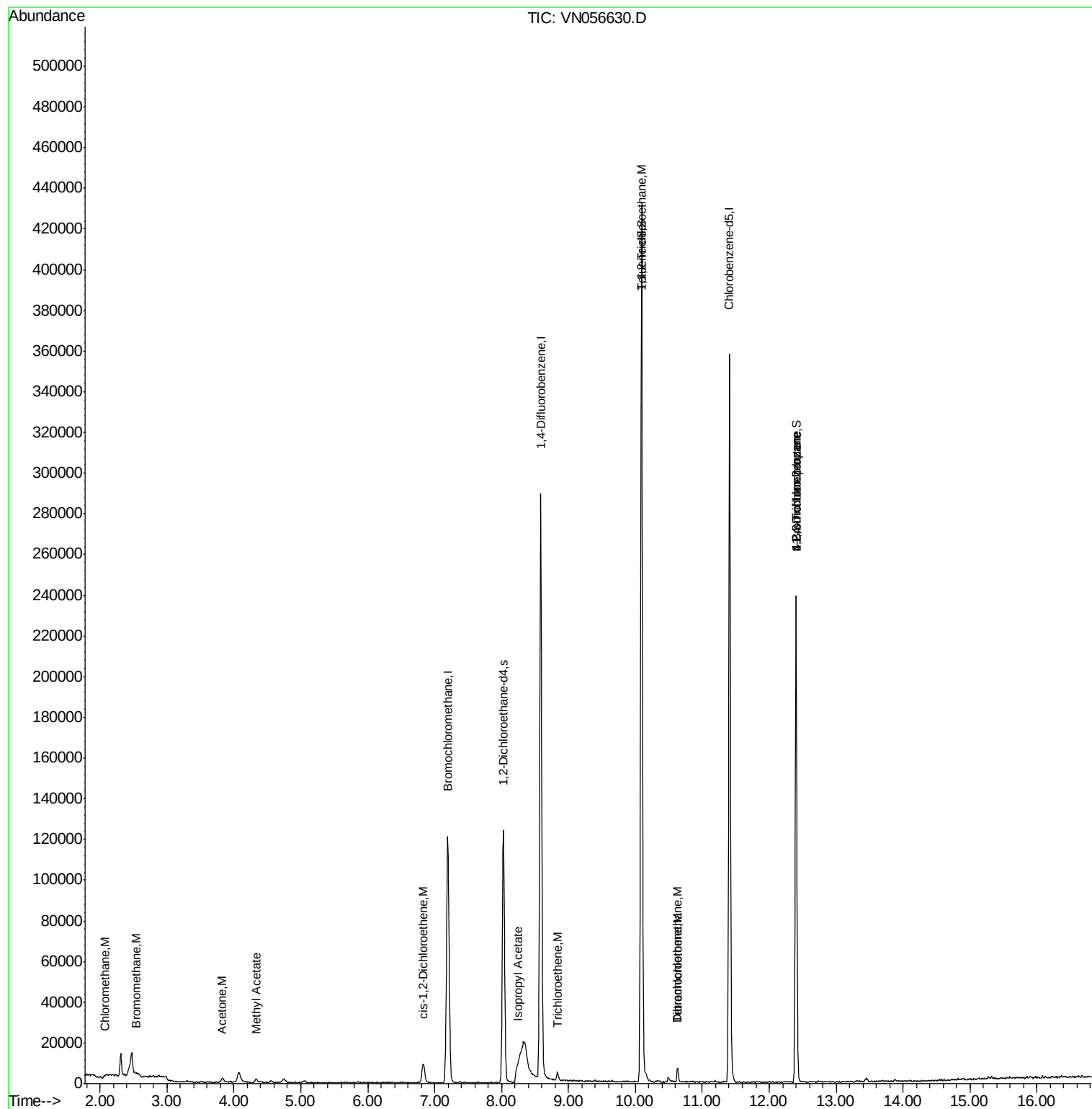
					Ovalue	
3) Chloromethane	2.06	50	771	0.211	ug/l #	41
5) Bromomethane	2.54	94	388	0.212	ug/l #	3
12) Methyl Acetate	4.34	43	3743	1.013	ug/l	91
15) Acetone	3.82	58	1004	2.218	ug/l #	21
22) cis-1,2-Dichloroethene	6.82	96	1150	0.329	ug/l #	1
37) Trichloroethene	8.83	130	1597	0.490	ug/l	86
44) Isopropyl Acetate	8.23	43	4596	0.687	ug/l #	55
50) 1,1,2-Trichloroethane	10.10	97	9816	3.203	ug/l #	1
53) Dibromochloromethane	10.63	129	1652	0.550	ug/l #	10
61) Tetrachloroethene	10.63	164	1632	0.584	ug/l #	86
72) 1,2,3-Trichloropropane	12.40	75	39868	11.172	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	39868	34.879	ug/l #	11

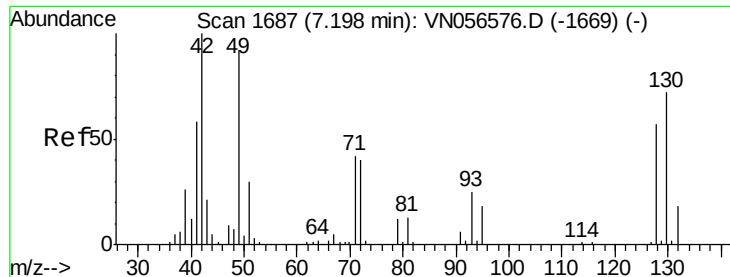
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-004-IDW/GW-20190708

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jul 03 11:05:14 2019
Response via : Initial Calibration

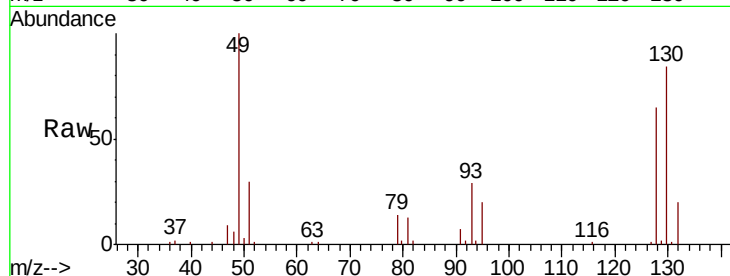




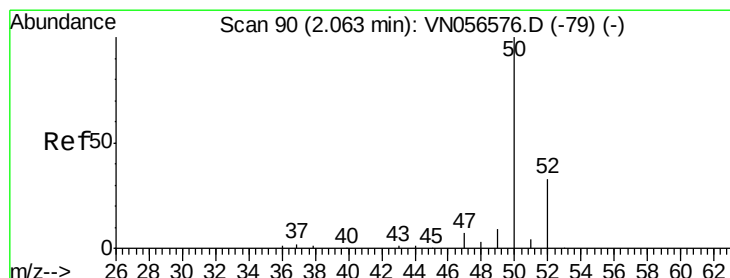
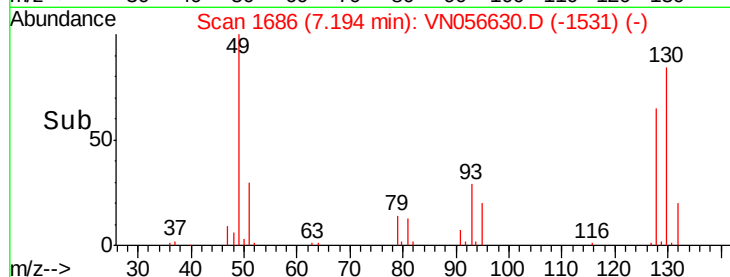
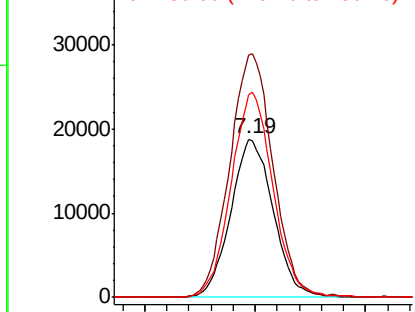
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN056630.D
Acq: 9 Jul 2019 15:16

Instrument :
MSVOA_N
ClientSampleId :
TT-004-IDW/GW-20190708

Tot Ion:128 Resp: 50118
Ion Ratio Lower Upper
128 100
49 156.8 0.0 355.8
130 128.0 0.0 326.3

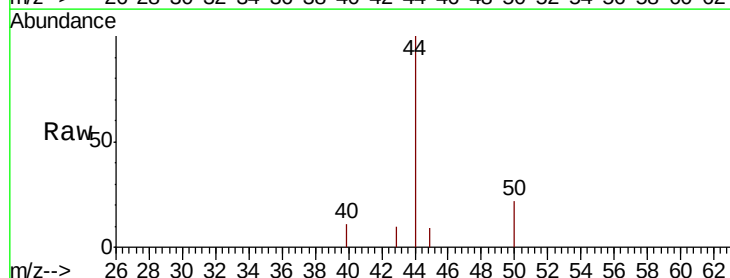


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

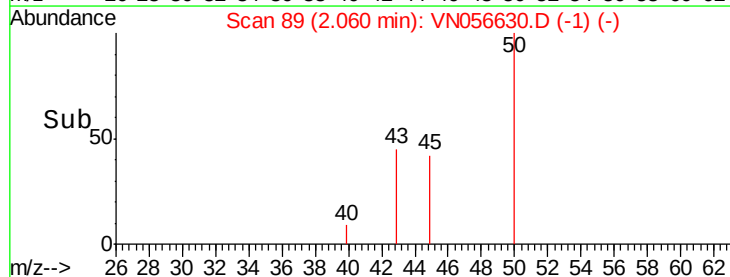
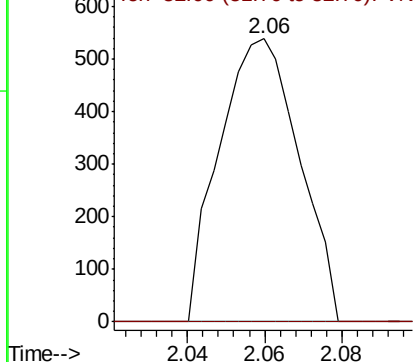


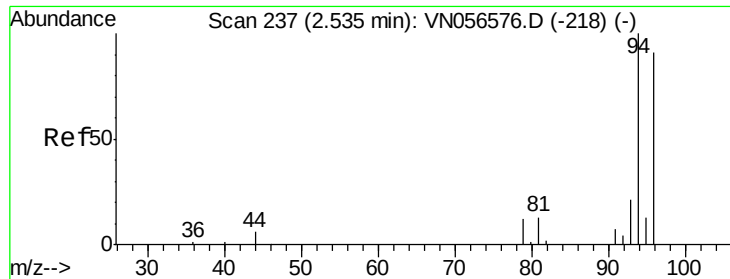
#3
Chloromethane
Concen: 0.211 ug/l
RT: 2.06 min Scan# 89
Delta R.T. -0.00 min
Lab File: VN056630.D
Acq: 9 Jul 2019 15:16

Tgt Ion: 50 Resp: 771
Ion Ratio Lower Upper
50 100
52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN





#5

Bromomethane

Concen: 0.212 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN056630.D

Acq: 9 Jul 2019 15:16

Instrument :

MSVOA_N

ClientSampleId :

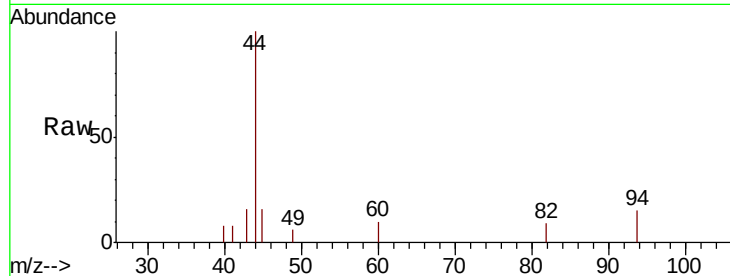
TT-004-IDW/GW-20190708

Tot Ion: 94 Resp: 388

Ion Ratio Lower Upper

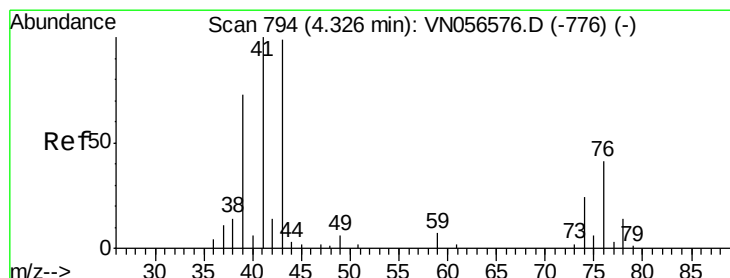
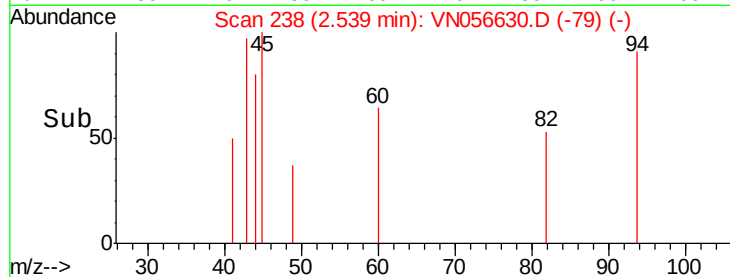
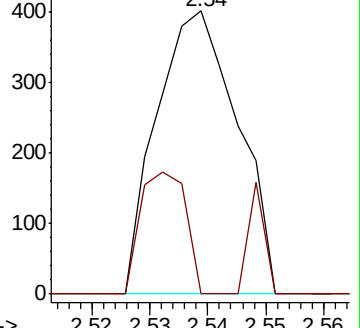
94 100

96 0.0 74.1 111.1#



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 1.013 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056630.D

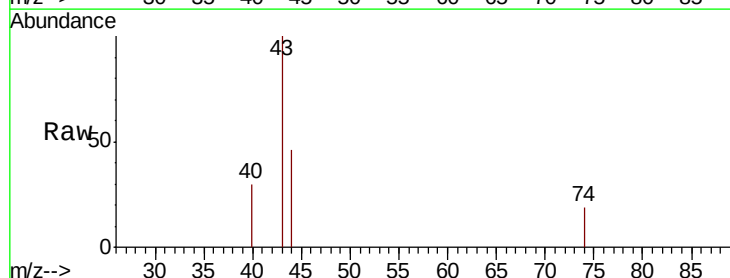
Acq: 9 Jul 2019 15:16

Tgt Ion: 43 Resp: 3743

Ion Ratio Lower Upper

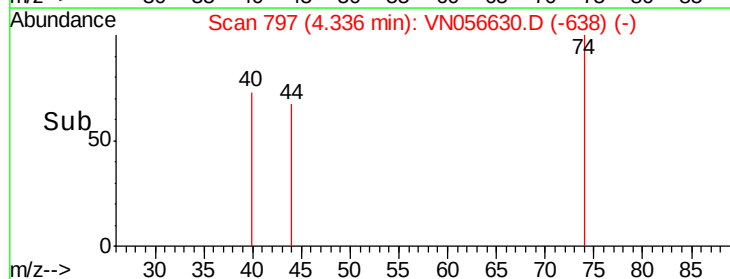
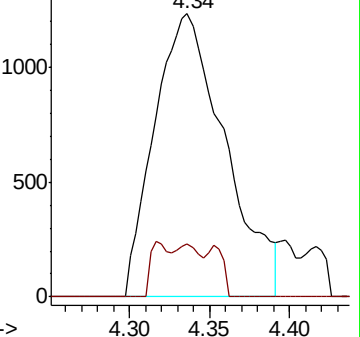
43 100

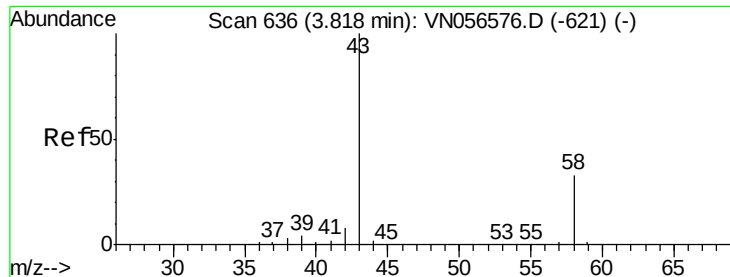
74 20.6 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#15

Acetone

Concen: 2.218 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056630.D

Acq: 9 Jul 2019 15:16

Instrument :

MSVOA_N

ClientSampleId :

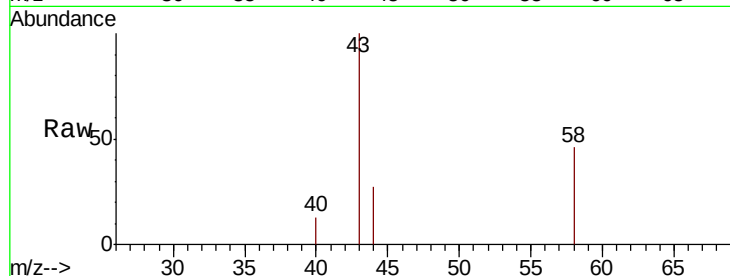
TT-004-IDW/GW-20190708

Tot Ion: 58 Resp: 1004

Ion Ratio Lower Upper

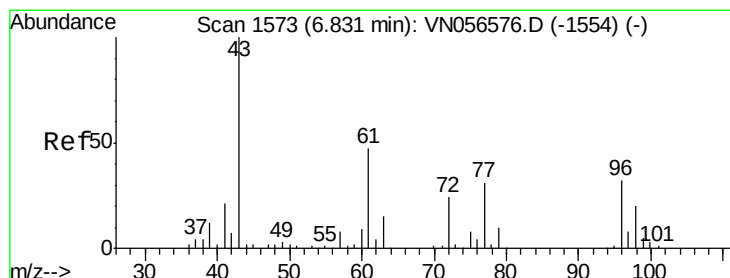
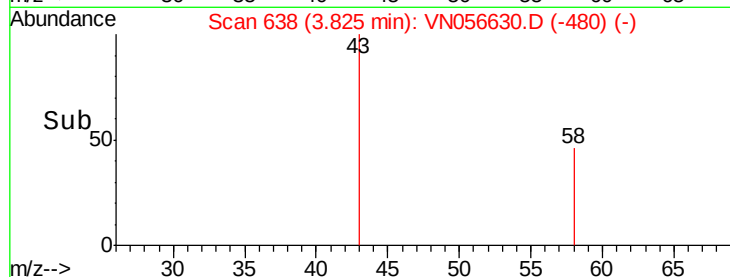
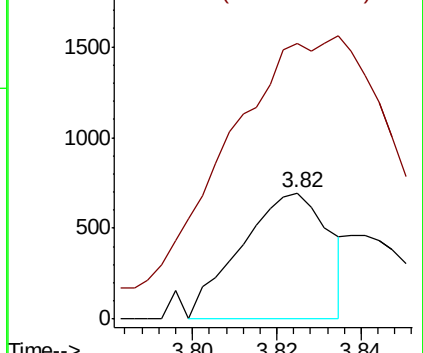
58 100

43 139.4 232.5 348.7#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#22

cis-1,2-Dichloroethene

Concen: 0.329 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VN056630.D

Acq: 9 Jul 2019 15:16

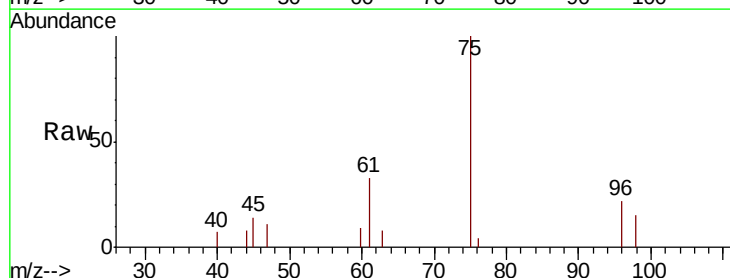
Tgt Ion: 96 Resp: 1150

Ion Ratio Lower Upper

96 100

61 337.4 105.7 158.5#

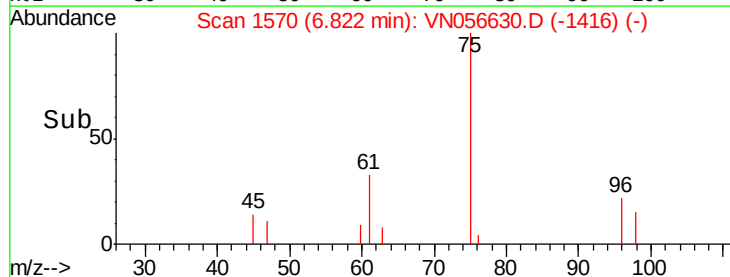
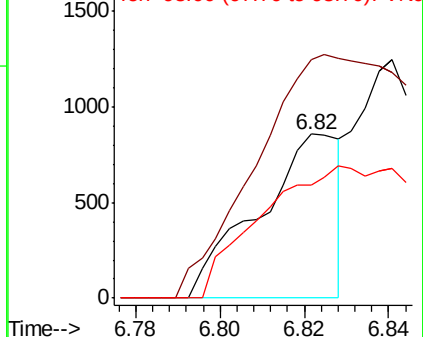
98 102.5 52.0 78.0#

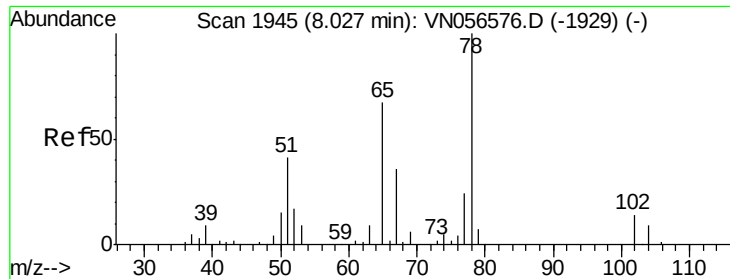


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

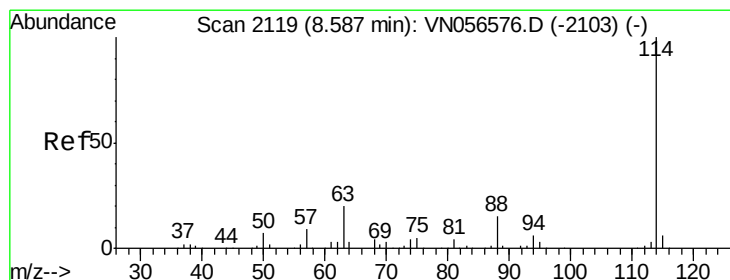
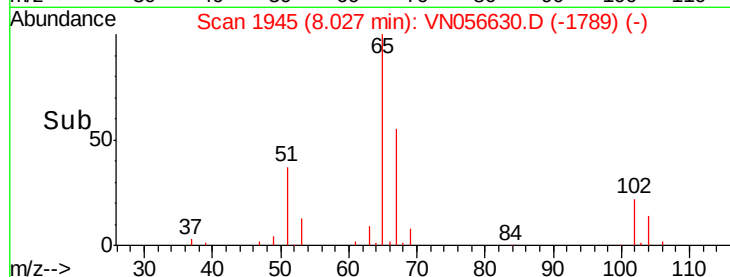
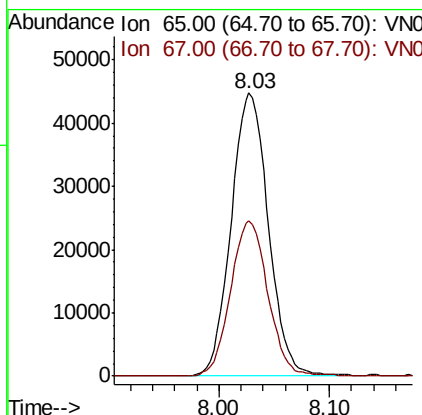
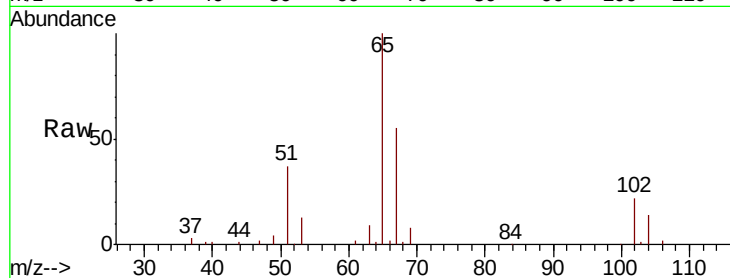




#27
 1,2-Dichloroethane-d4
 Concen: 30.308 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056630.D
 Acq: 9 Jul 2019 15:16

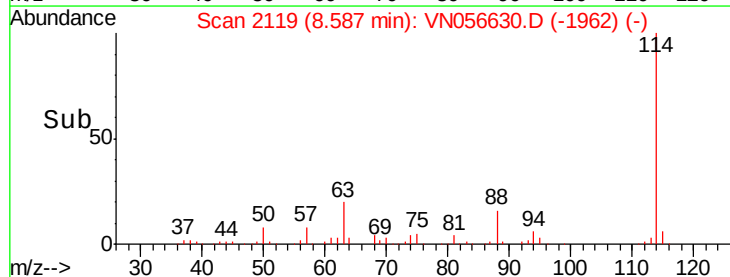
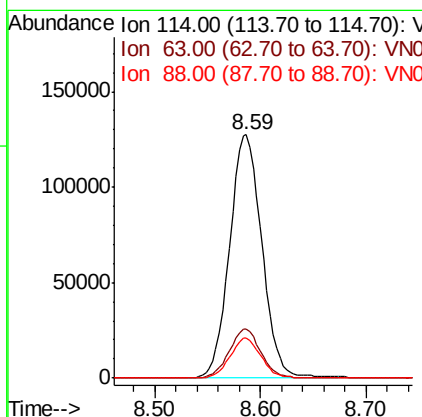
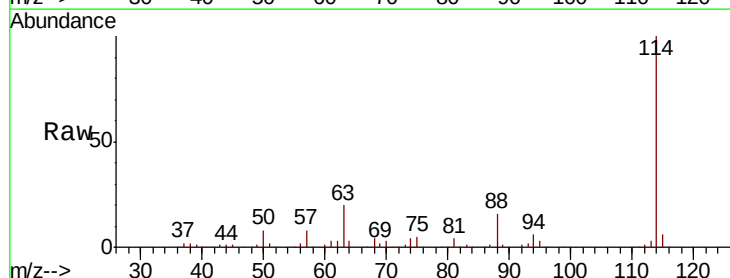
Instrument :
 MSVOA_N
 ClientSampleId :
 TT-004-IDW/GW-20190708

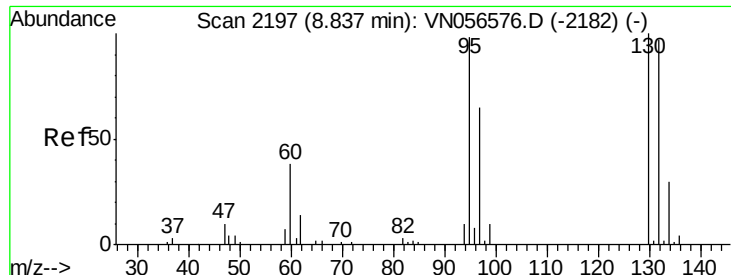
Tot Ion: 65 Resp: 104716
 Ion Ratio Lower Upper
 65 100
 67 55.0 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056630.D
 Acq: 9 Jul 2019 15:16

Tgt Ion: 114 Resp: 270778
 Ion Ratio Lower Upper
 114 100
 63 19.7 14.7 22.1
 88 15.6 11.9 17.9





#37

Trichloroethene

Concen: 0.490 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056630.D

Acq: 9 Jul 2019 15:16

Instrument :

MSVOA_N

ClientSampleId :

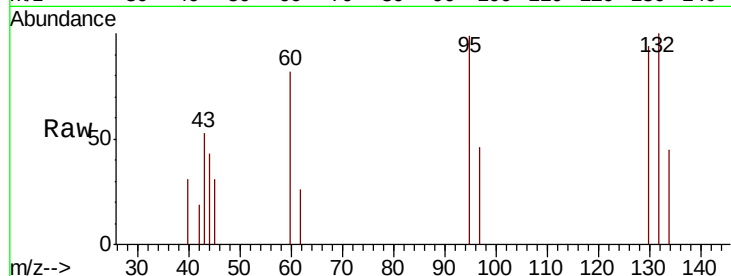
TT-004-IDW/GW-20190708

Tot Ion:130 Resp: 1597

Ion Ratio Lower Upper

130 100

95 104.9 73.0 109.6



Abundance Ion 129.90 (129.60 to 130.60): VN056630.D (-2182) (-)

Ion 94.90 (94.60 to 95.60): VN056630.D (-2182) (-)

8.83

1000

800

600

400

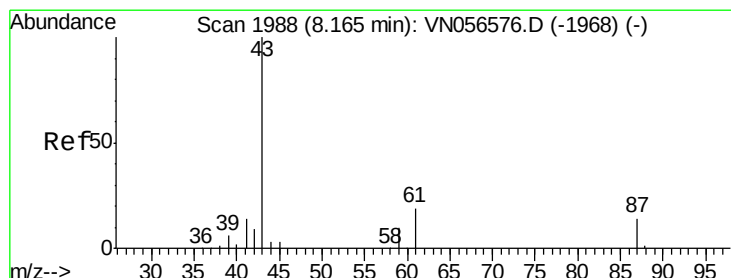
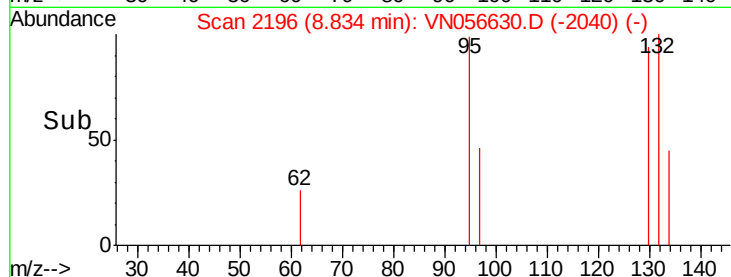
200

0

8.80

8.85

Time-->



#44

Isopropyl Acetate

Concen: 0.687 ug/l

RT: 8.23 min Scan# 2008

Delta R.T. 0.06 min

Lab File: VN056630.D

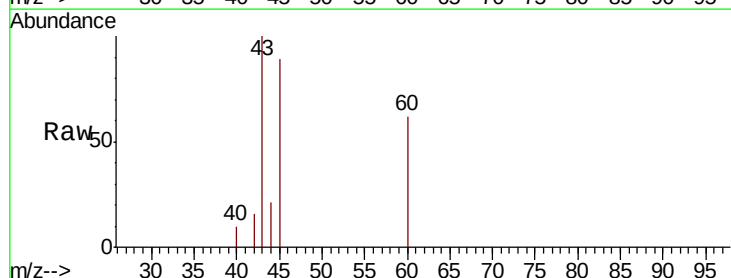
Acq: 9 Jul 2019 15:16

Tgt Ion: 43 Resp: 4596

Ion Ratio Lower Upper

43 100

61 42.1 16.9 25.3#



Abundance Ion 43.00 (42.70 to 43.70): VN056630.D (-1832) (-)

Ion 61.00 (60.70 to 61.70): VN056630.D (-1832) (-)

4000

3000

2000

1000

0

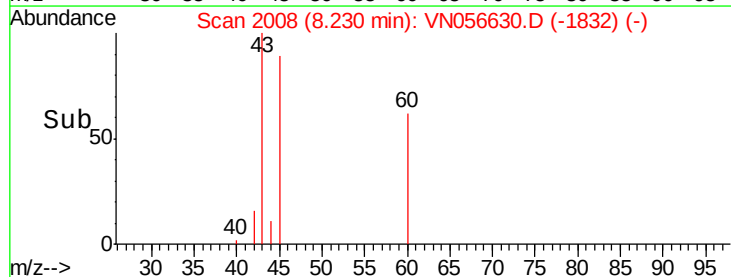
8.18

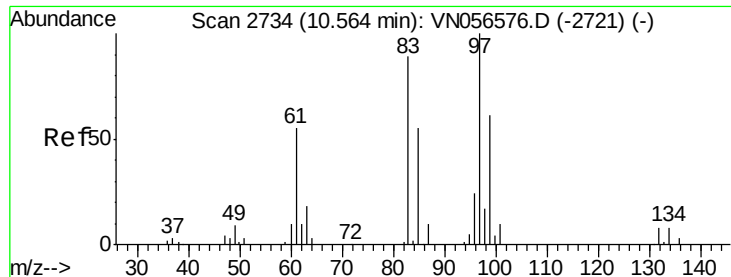
8.20

8.22

8.24

Time-->

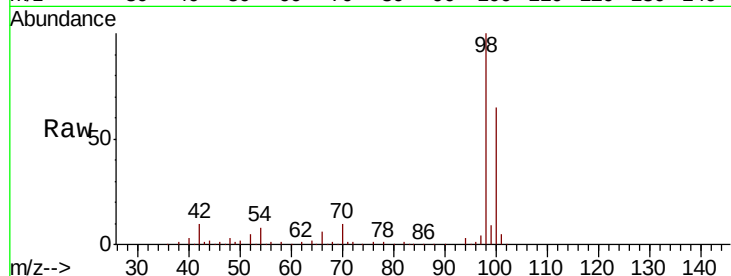




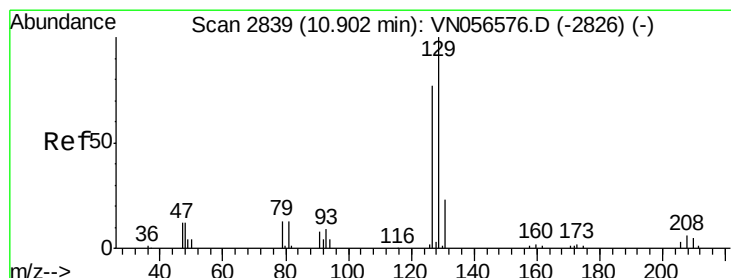
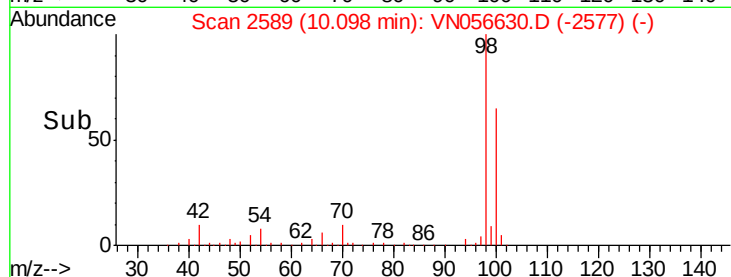
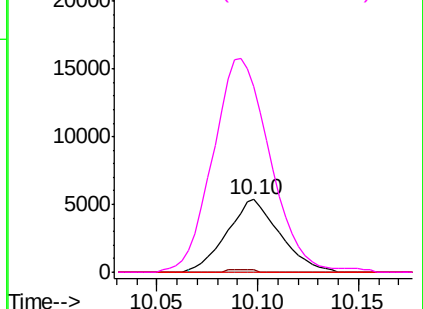
#50
1,1,2-Trichloroethane
Concen: 3.203 ug/l
RT: 10.10 min Scan# 2589
Delta R.T. -0.46 min
Lab File: VN056630.D
Acq: 9 Jul 2019 15:16

Instrument :
MSVOA_N
ClientSampleId :
TT-004-IDW/GW-20190708

Tot Ion: 97 Resp: 9816
Ion Ratio Lower Upper
97 100
83 2.8 66.9 100.3#
85 0.0 43.3 64.9#
99 250.0 48.6 73.0#

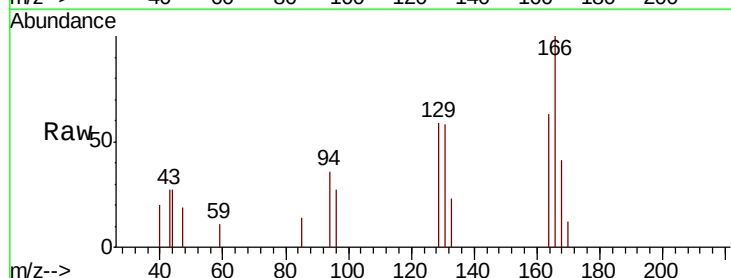


Abundance Ion 97.00 (96.70 to 97.70): VN0
Ion 82.95 (82.65 to 83.65): VN0
Ion 84.95 (84.65 to 85.65): VN0
Ion 98.95 (98.65 to 99.65): VN0

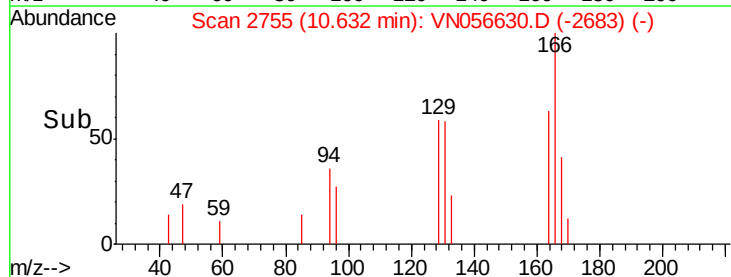
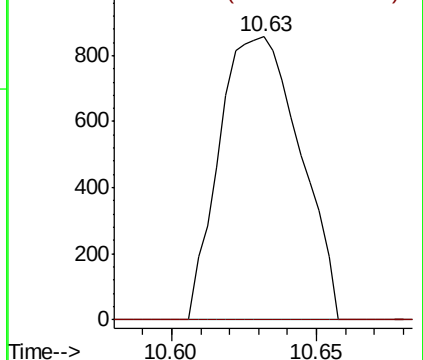


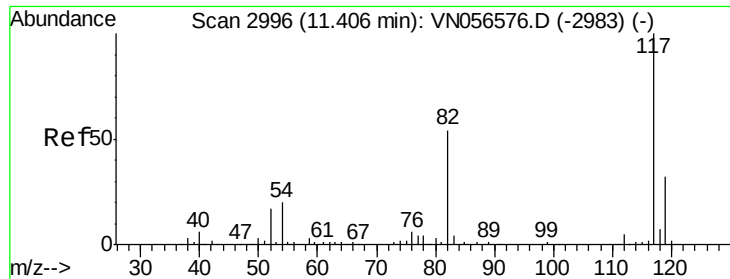
#53
Dibromochloromethane
Concen: 0.550 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN056630.D
Acq: 9 Jul 2019 15:16

Tgt Ion: 129 Resp: 1652
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.5#



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

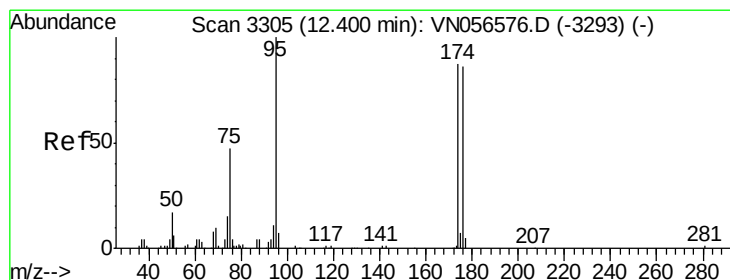
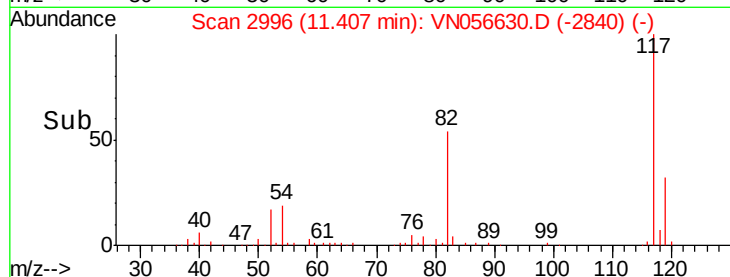
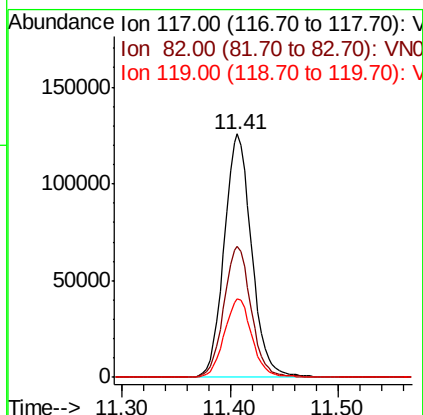
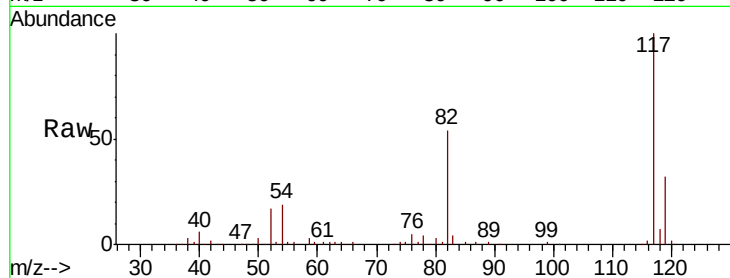




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056630.D
Acq: 9 Jul 2019 15:16

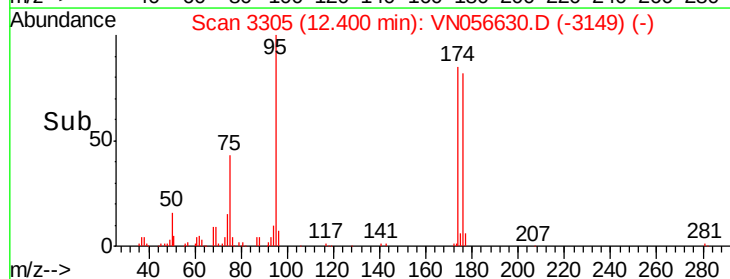
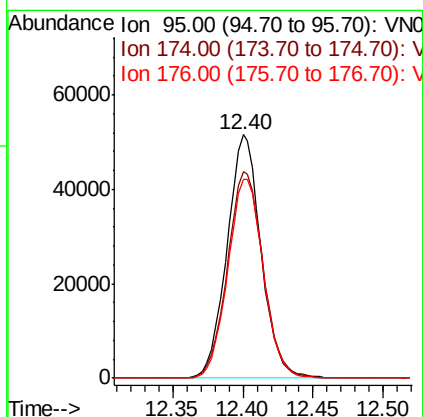
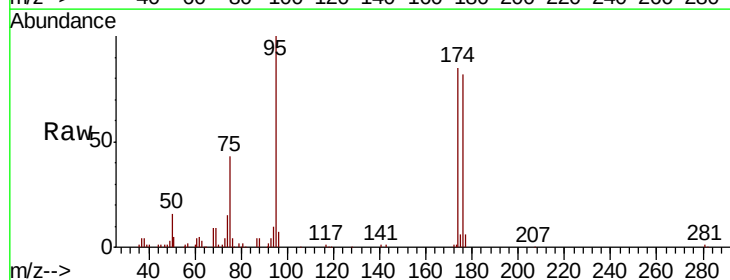
Instrument :
MSVOA_N
ClientSampleId :
TT-004-IDW/GW-20190708

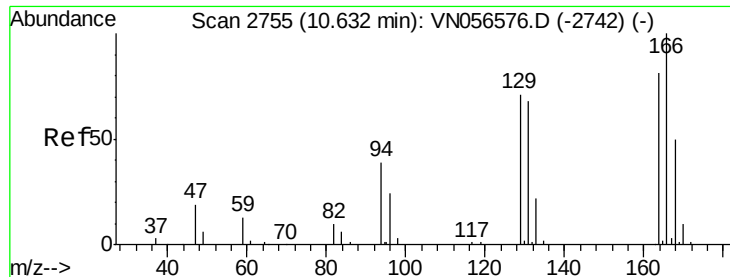
Tot Ion:117 Resp: 222743
Ion Ratio Lower Upper
117 100
82 53.7 41.2 61.8
119 32.4 26.2 39.2



#60
4-Bromofluorobenzene
Concen: 25.283 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056630.D
Acq: 9 Jul 2019 15:16

Tgt Ion: 95 Resp: 86537
Ion Ratio Lower Upper
95 100
174 89.3 75.4 113.0
176 85.6 73.9 110.9





#61

Tetrachloroethene

Concen: 0.584 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056630.D

Acq: 9 Jul 2019 15:16

Instrument :

MSVOA_N

ClientSampleId :

TT-004-IDW/GW-20190708

Tot Ion:164 Resp: 1632

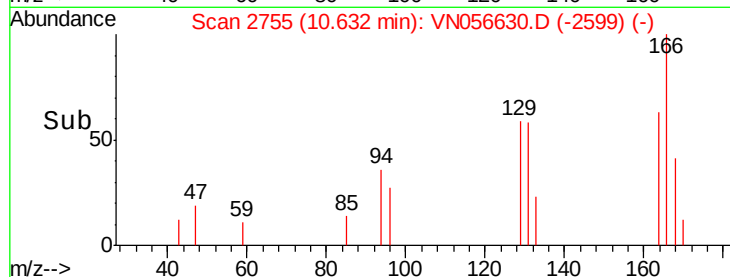
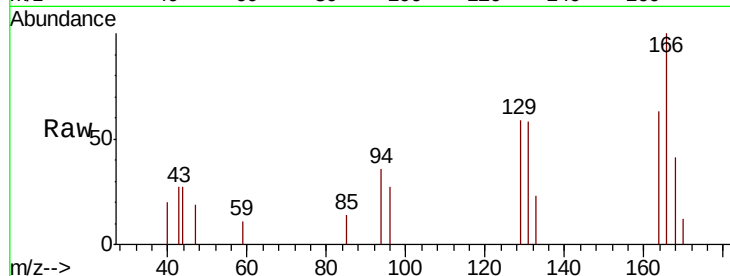
Ion Ratio Lower Upper

164 100

166 158.4 104.3 156.5#

129 93.0 71.5 107.3

131 92.1 67.7 101.5

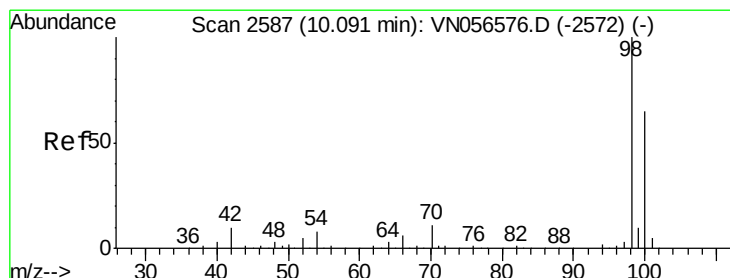
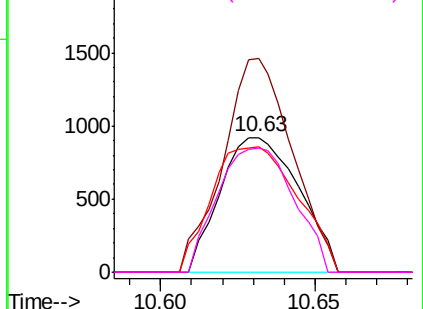


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: 30.630 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056630.D

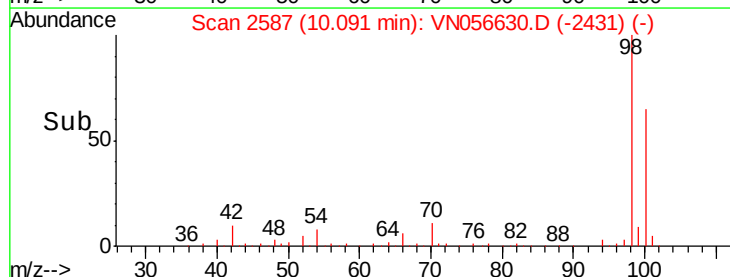
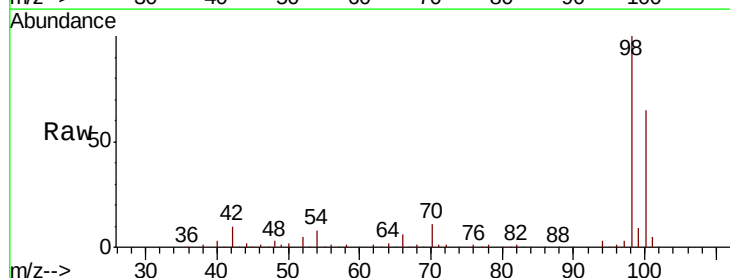
Acq: 9 Jul 2019 15:16

Tgt Ion: 98 Resp: 317045

Ion Ratio Lower Upper

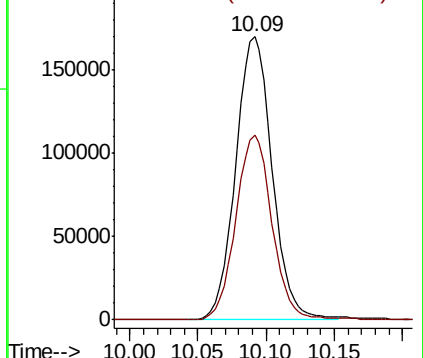
98 100

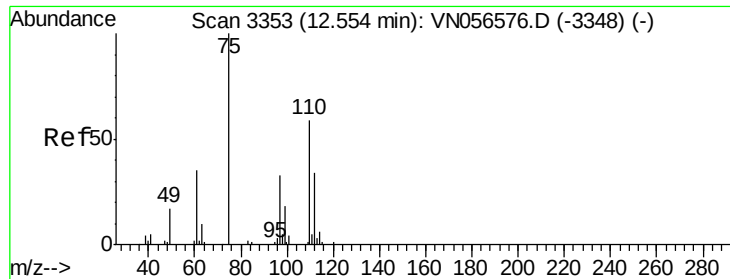
100 65.2 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#72

1,2,3-Trichloropropane

Concen: 11.172 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056630.D

Acq: 9 Jul 2019 15:16

Instrument :

MSVOA_N

ClientSampleId :

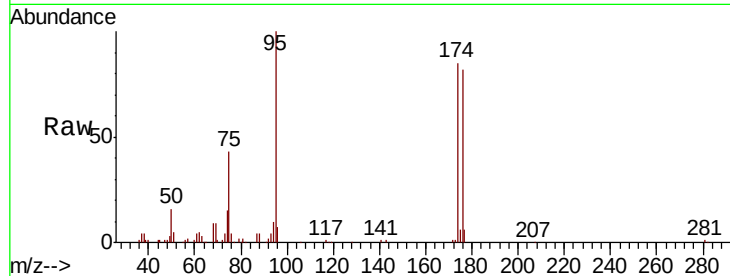
TT-004-IDW/GW-20190708

Tot Ion: 75 Resp: 39868

Ion Ratio Lower Upper

75 100

77 0.7 0.0 350.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

25000

20000

15000

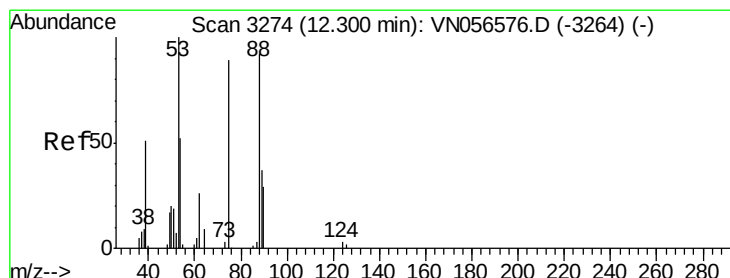
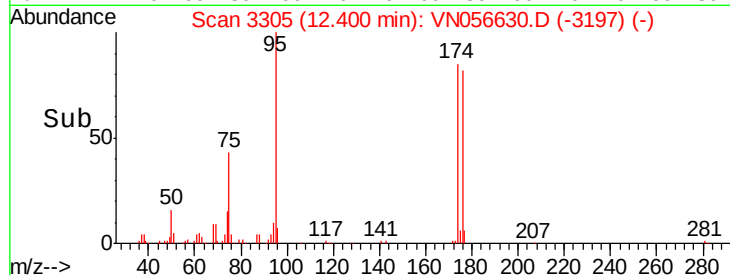
10000

5000

0

12.35 12.40 12.45

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 34.879 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056630.D

Acq: 9 Jul 2019 15:16

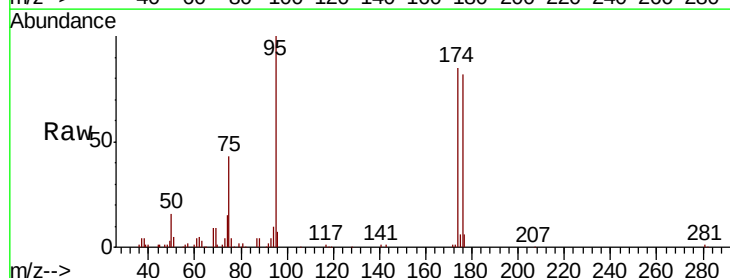
Tgt Ion: 75 Resp: 39868

Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

89 0.0 22.5 67.5#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

30000

25000

20000

15000

10000

5000

0

12.35 12.40 12.45

Time-->

