

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070919\
 Data File : VN056629.D
 Acq On : 9 Jul 2019 14:53
 Operator : JC/SP
 Sample : K3712-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-003-IDW/GW-20190708

Quant Time: Jul 10 01:28:19 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	7.20	128	50353	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	273007	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	224633	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	104066	29.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.93%
60) 4-Bromofluorobenzene	12.40	95	87462	25.34	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	84.47%
63) Toluene-d8	10.09	98	316609	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

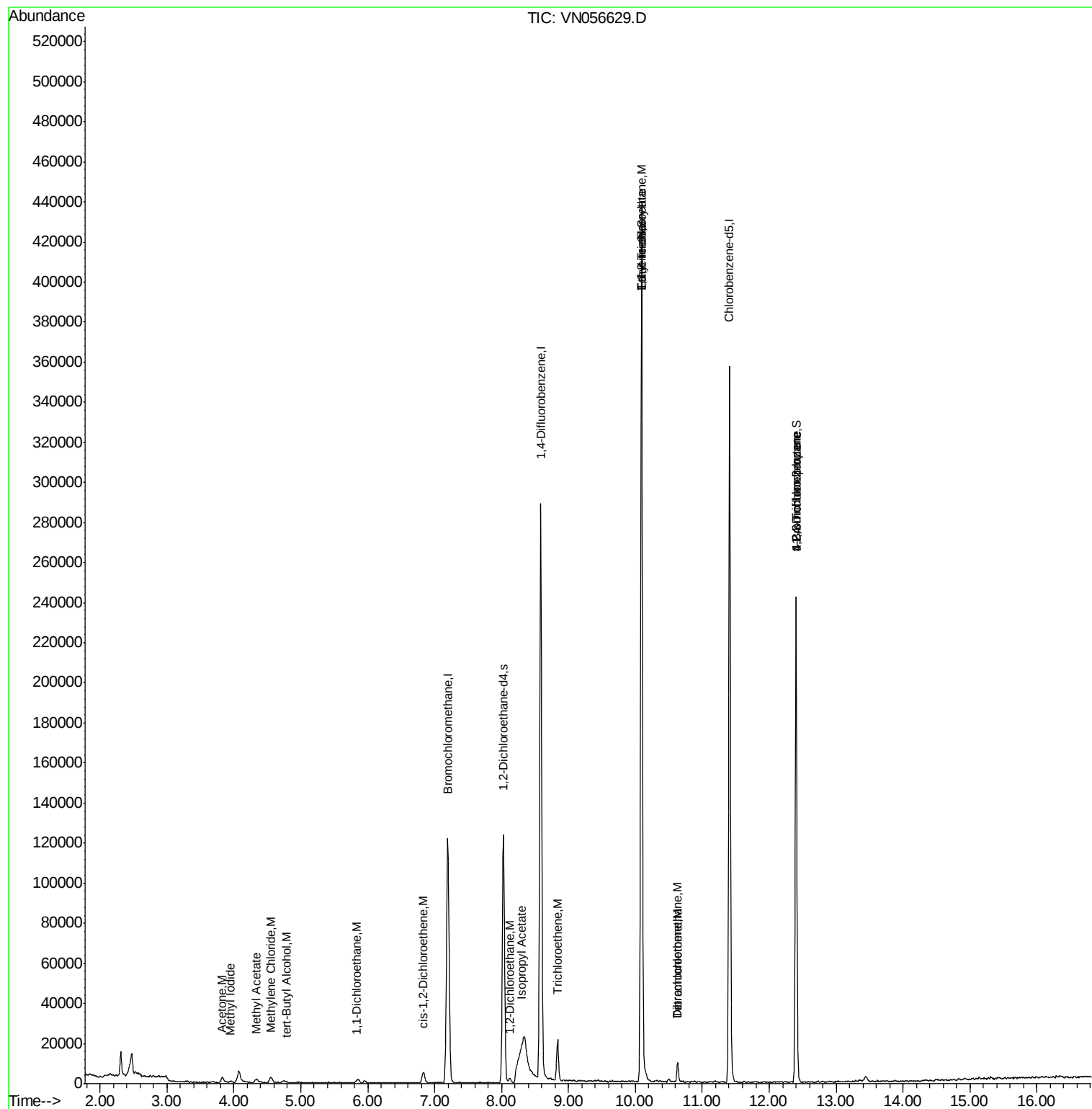
					Ovalue
11) Methyl Iodide	3.95	142	1183	0.301 ug/l #	76
12) Methyl Acetate	4.34	43	4074	1.098 ug/l	100
15) Acetone	3.83	58	1381	3.037 ug/l #	39
18) Methylene Chloride	4.54	84	882	0.271 ug/l	87
21) 1,1-Dichloroethane	5.84	63	1328	0.237 ug/l #	82
22) cis-1,2-Dichloroethene	6.83	96	1046	0.298 ug/l #	54
23) tert-Butyl Alcohol	4.79	59	127	0.208 ug/l #	100
36) 1,2-Dichloroethane	8.12	62	896	0.219 ug/l #	89
37) Trichloroethene	8.83	130	8758	2.664 ug/l	96
44) Isopropyl Acetate	8.30	43	28139	4.172 ug/l #	55
50) 1,1,2-Trichloroethane	10.10	97	9630	3.116 ug/l #	1
51) Ethyl methacrylate	10.10	69	1050	0.216 ug/l #	46
53) Dibromochloromethane	10.63	129	2279	0.752 ug/l #	10
61) Tetrachloroethene	10.63	164	1968	0.698 ug/l	89
72) 1,2,3-Trichloropropane	12.40	75	40257	11.186 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	40257	34.923 ug/l #	11

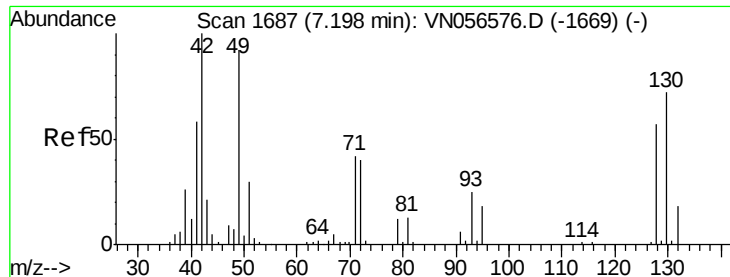
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 03 11:05:14 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

TT-003-IDW/GW-20190708

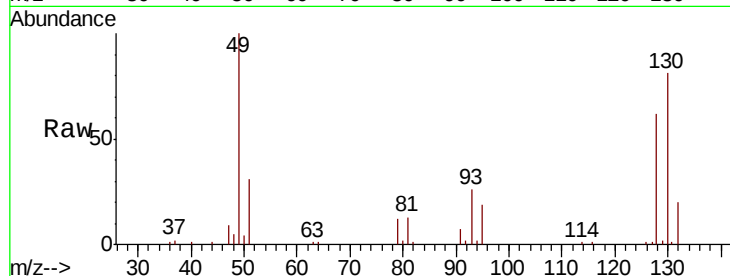
Tot Ion:128 Resp: 50353

Ion Ratio Lower Upper

128 100

49 160.4 0.0 355.8

130 128.9 0.0 326.3

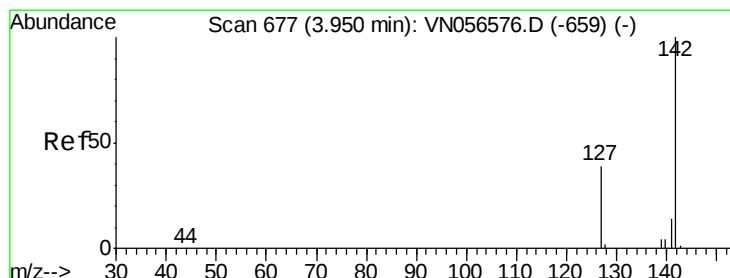
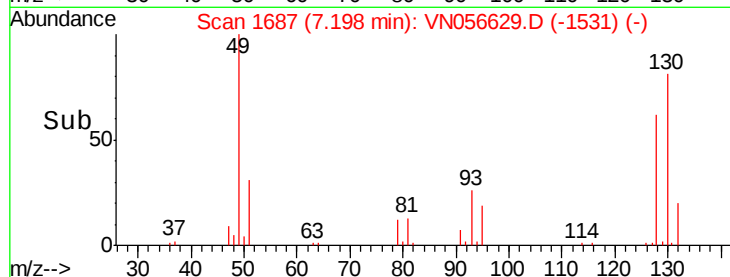
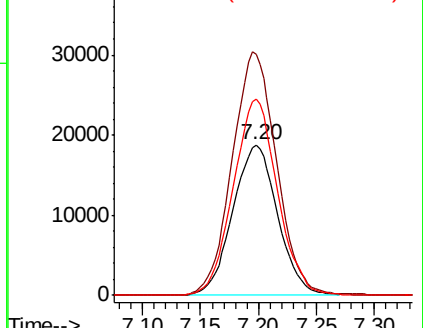


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): V

Ion 130.00 (129.70 to 130.70): V



#11

Methyl Iodide

Concen: 0.301 ug/l

RT: 3.95 min Scan# 677

Delta R.T. 0.00 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

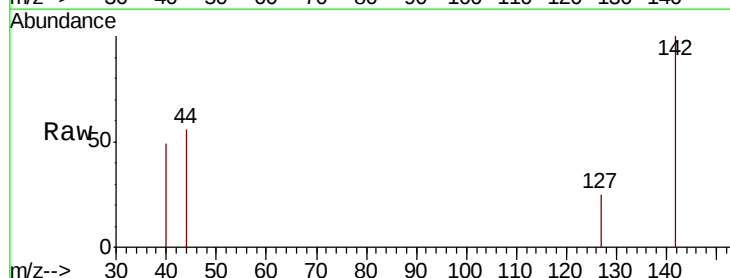
Tgt Ion:142 Resp: 1183

Ion Ratio Lower Upper

142 100

127 25.1 19.0 57.0

141 0.0 6.7 20.0#

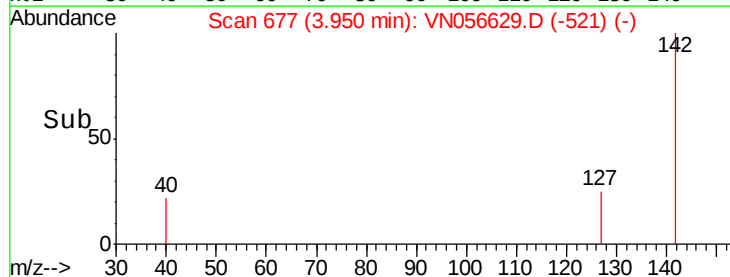
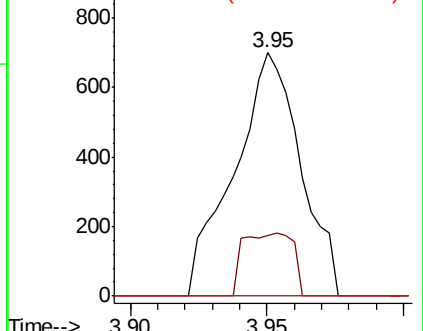


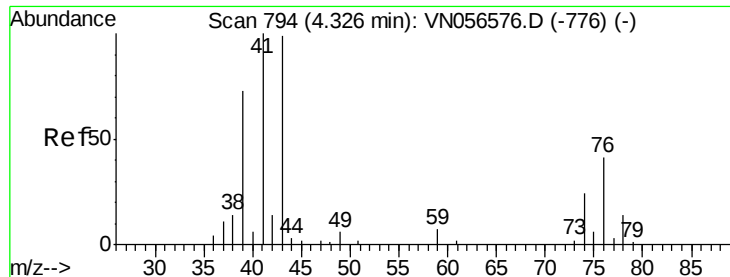
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

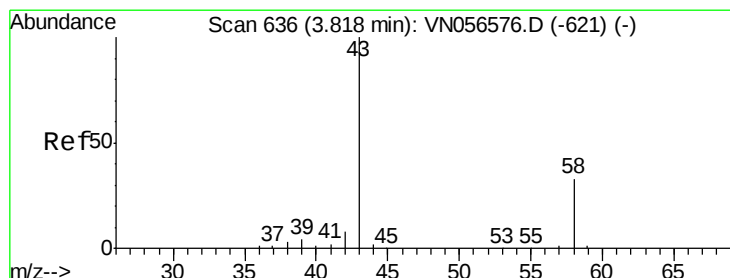
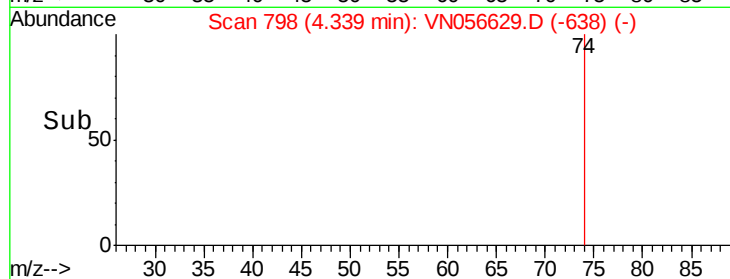
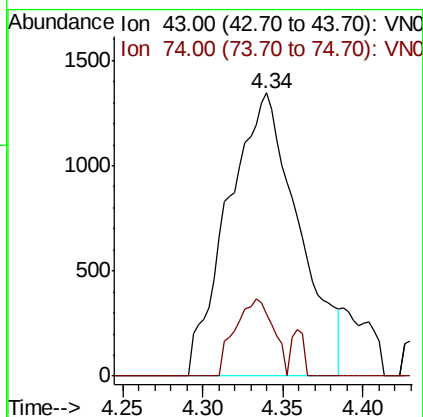
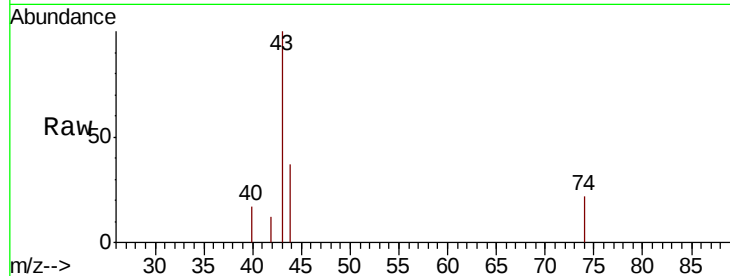




#12
Methvl Acetate
Concen: 1.098 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN056629.D
Acq: 9 Jul 2019 14:53

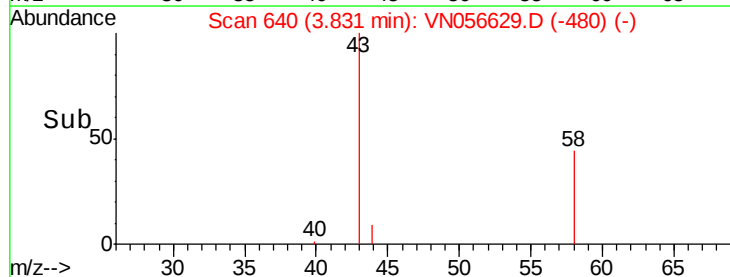
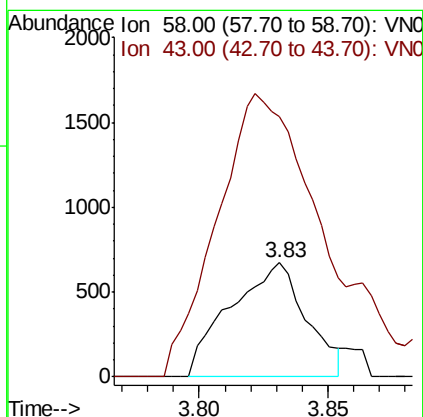
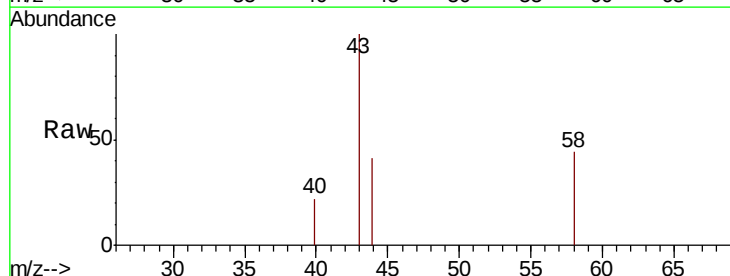
Instrument :
MSVOA_N
ClientSampleId :
TT-003-IDW/GW-20190708

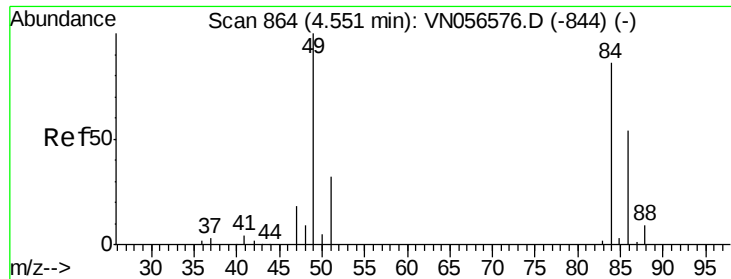
Tot Ion: 43 Resp: 4074
Ion Ratio Lower Upper
43 100
74 24.9 19.9 29.9



#15
Acetone
Concen: 3.037 ug/l
RT: 3.83 min Scan# 640
Delta R.T. 0.01 min
Lab File: VN056629.D
Acq: 9 Jul 2019 14:53

Tgt Ion: 58 Resp: 1381
Ion Ratio Lower Upper
58 100
43 172.5 232.5 348.7#

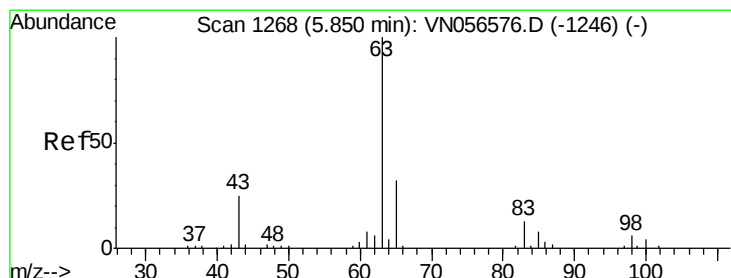
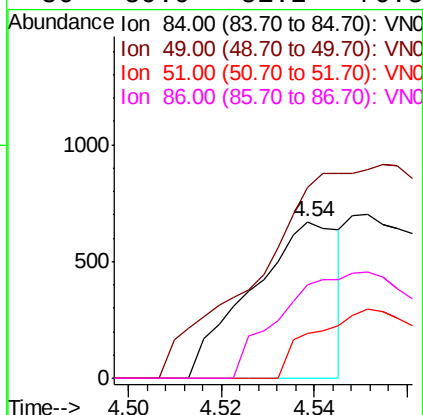
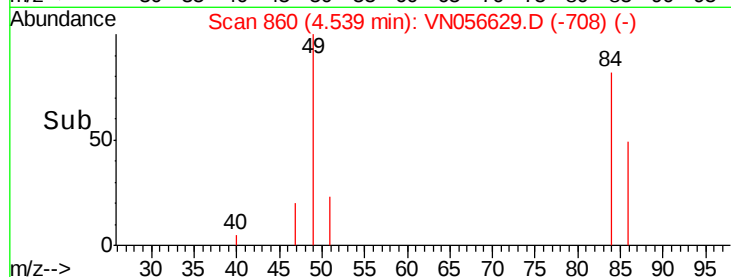
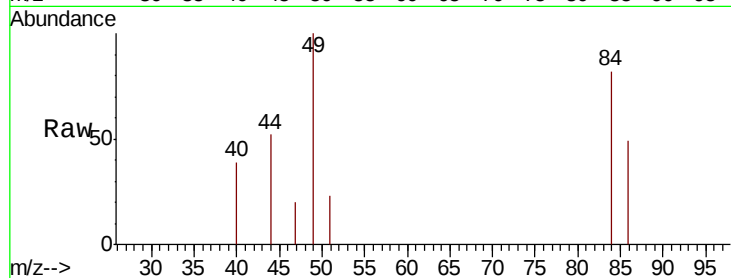




#18
Methvlene Chloride
Concen: 0.271 ug/l
RT: 4.54 min Scan# 860
Delta R.T. -0.01 min
Lab File: VN056629.D
Acq: 9 Jul 2019 14:53

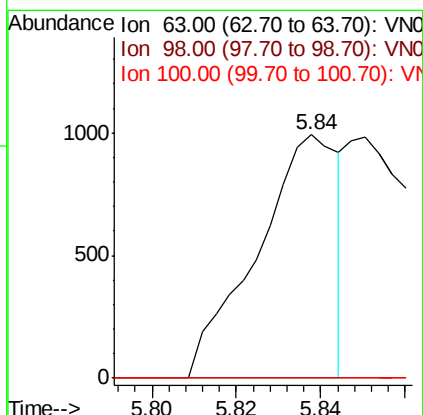
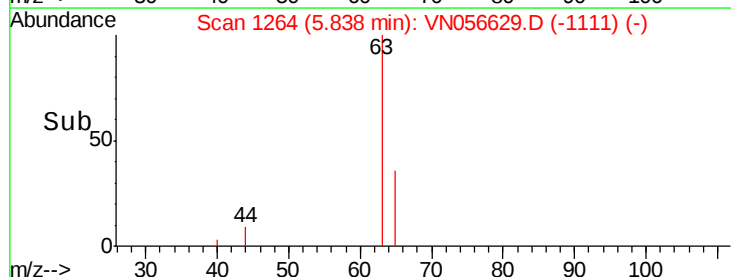
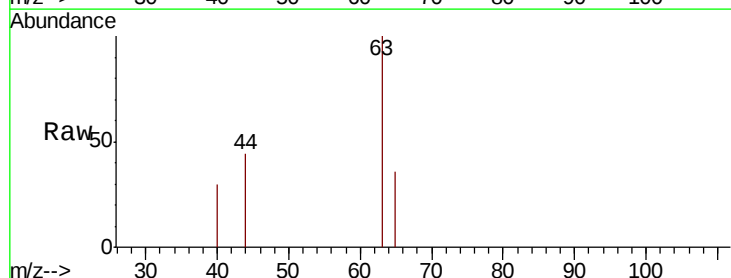
Instrument :
MSVOA_N
ClientSampleId :
TT-003-IDW/GW-20190708

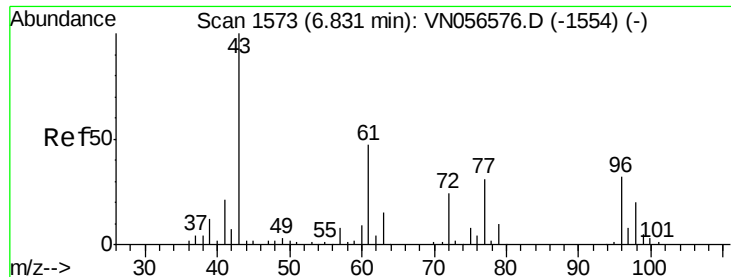
Tot Ion:	84	Resp:	882
Ion	Ratio	Lower	Upper
84	100		
49	90.4	87.6	131.4
51	28.5	27.0	40.4
86	59.9	51.2	76.8



#21
1,1-Dichloroethane
Concen: 0.237 ug/l
RT: 5.84 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VN056629.D
Acq: 9 Jul 2019 14:53

Tgt Ion:	63	Resp:	1328
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.5#
100	0.0	2.3	6.9#





#22

cis-1,2-Dichloroethene

Concen: 0.298 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

TT-003-IDW/GW-20190708

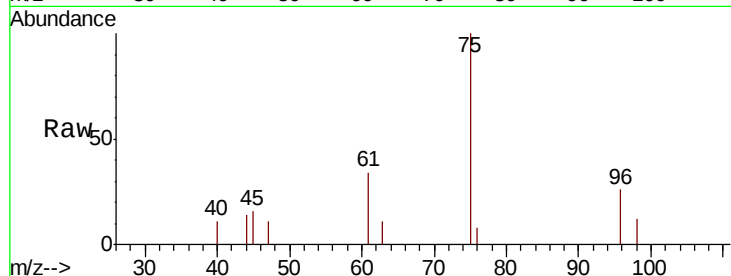
Tot Ion: 96 Resp: 1046

Ion Ratio Lower Upper

96 100

61 77.7 105.7 158.5#

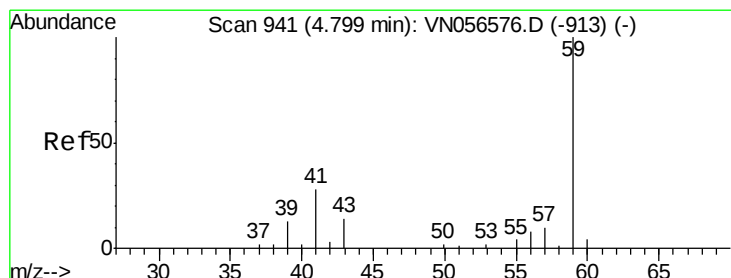
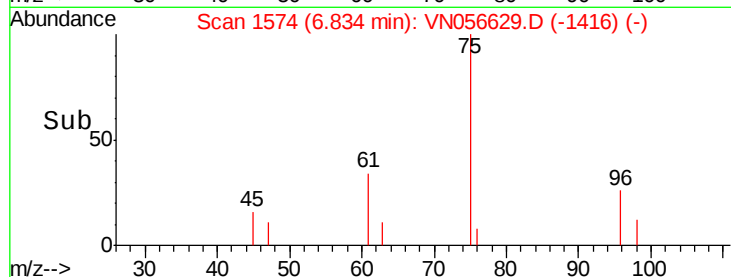
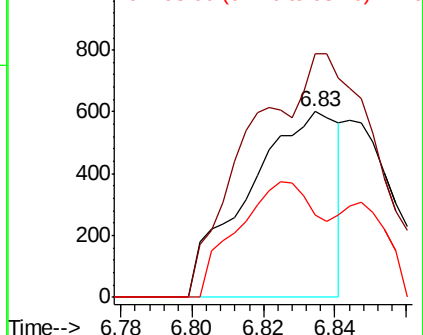
98 27.9 52.0 78.0#



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



#23

tert-Butyl Alcohol

Concen: 0.208 ug/l

RT: 4.79 min Scan# 937

Delta R.T. -0.00 min

Lab File: VN056629.D

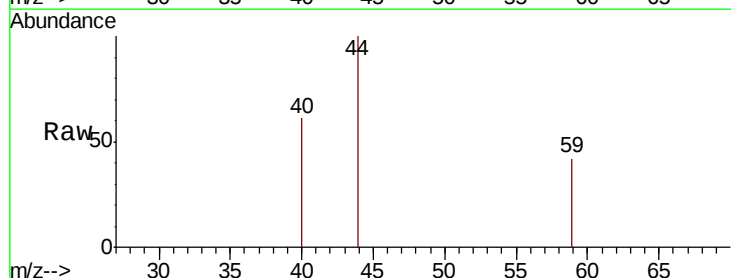
Acq: 9 Jul 2019 14:53

Tgt Ion: 59 Resp: 127

Ion Ratio Lower Upper

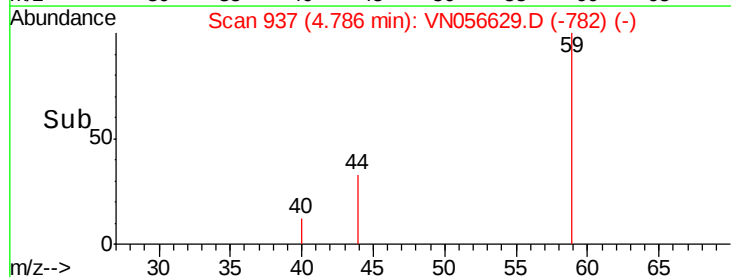
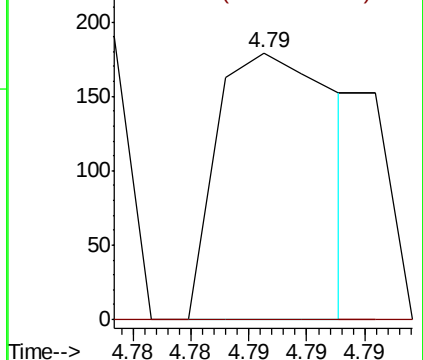
59 100

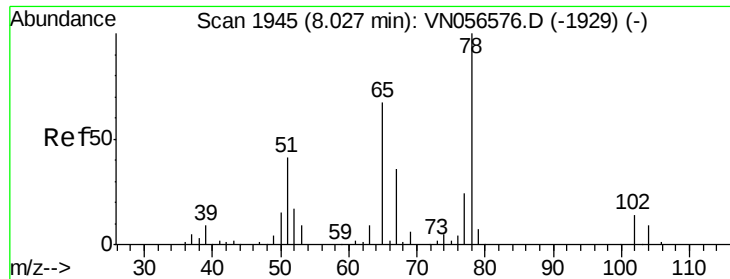
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 29.979 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

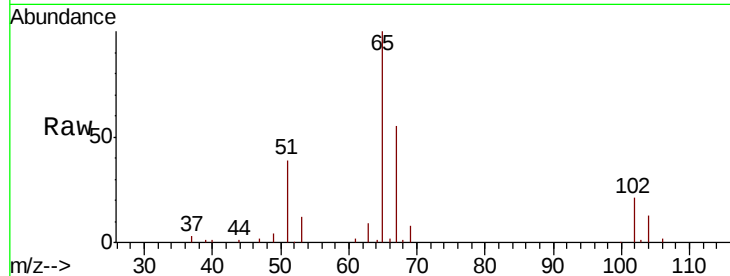
TT-003-IDW/GW-20190708

Tot Ion: 65 Resp: 104066

Ion Ratio Lower Upper

65 100

67 54.9 43.4 65.2



Abundance Ion 65.00 (64.70 to 65.70): VN056629.D (-1789) (-)

Ion 67.00 (66.70 to 67.70): VN056629.D (-1789) (-)

8.03

50000

40000

30000

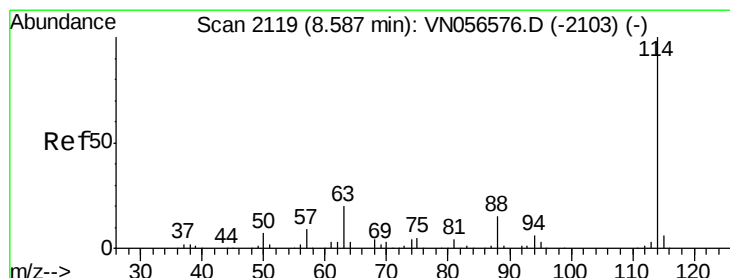
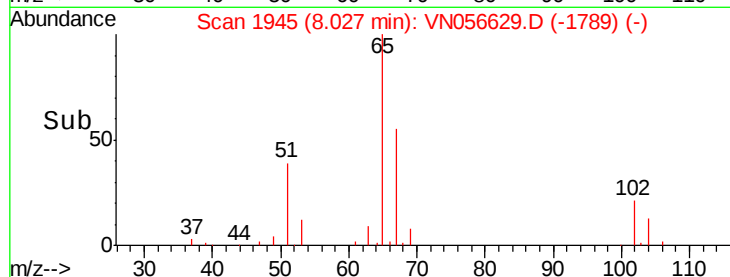
20000

10000

0

8.00 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

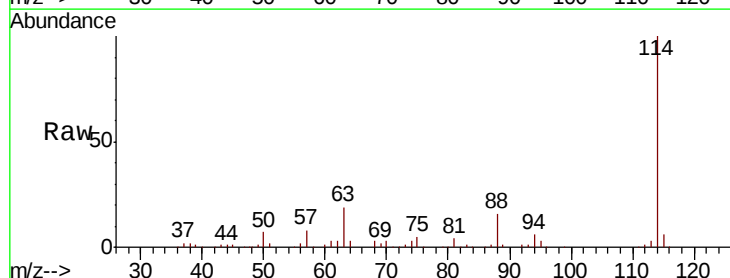
Tgt Ion: 114 Resp: 273007

Ion Ratio Lower Upper

114 100

63 19.4 14.7 22.1

88 15.7 11.9 17.9



Abundance Ion 114.00 (113.70 to 114.70): VN056629.D (-1962) (-)

Ion 63.00 (62.70 to 63.70): VN056629.D (-1962) (-)

Ion 88.00 (87.70 to 88.70): VN056629.D (-1962) (-)

8.59

150000

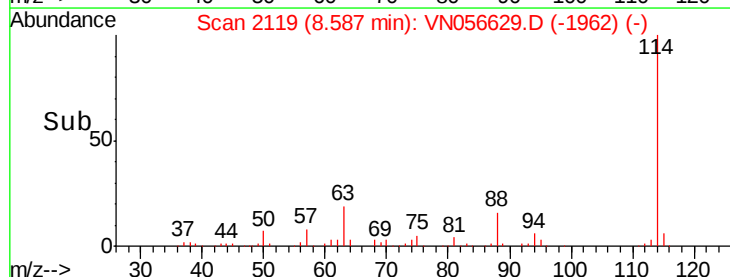
100000

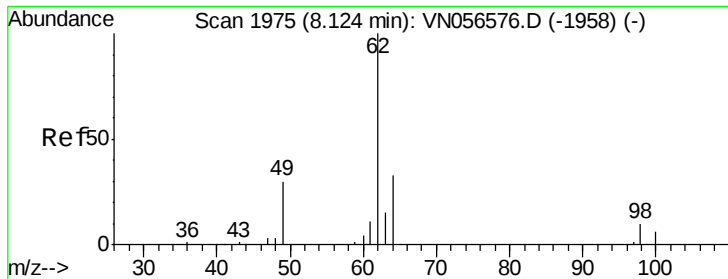
50000

0

8.50 8.60 8.70

Time-->

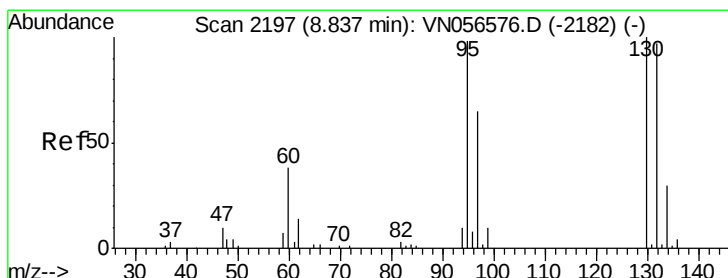
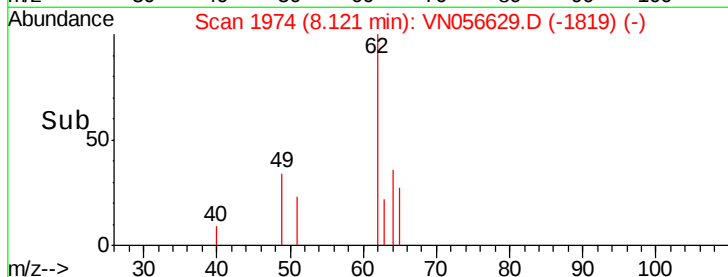
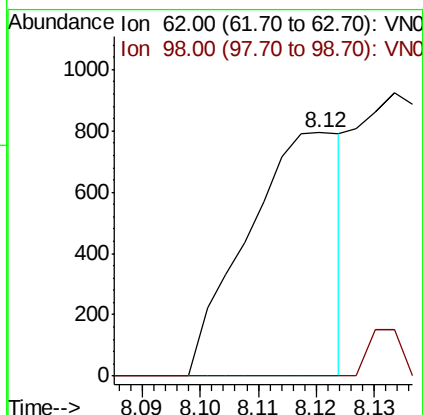
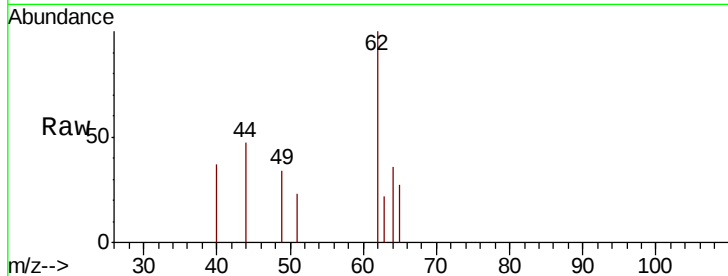




#36
 1,2-Dichloroethane
 Concen: 0.219 ug/l
 RT: 8.12 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VN056629.D
 Acq: 9 Jul 2019 14:53

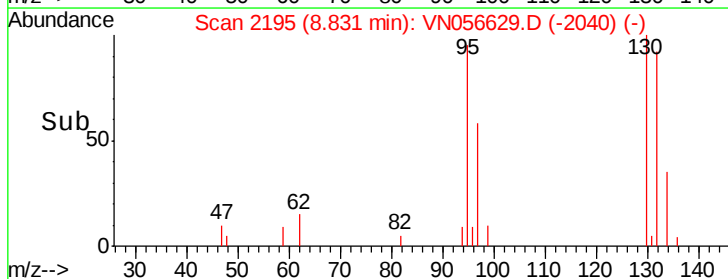
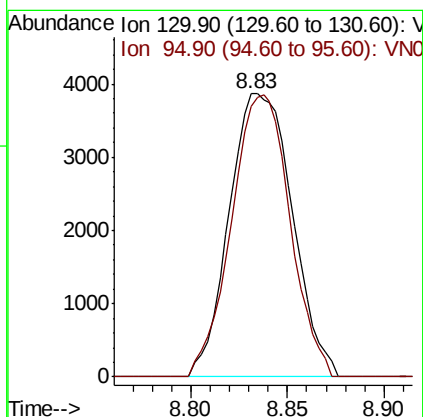
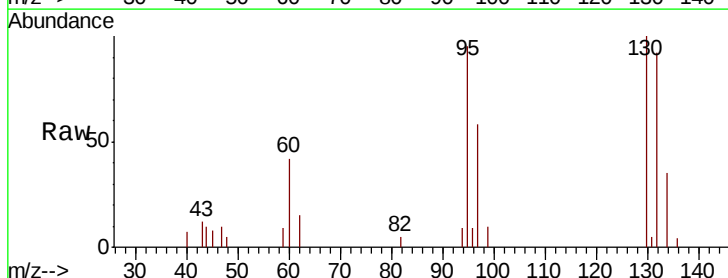
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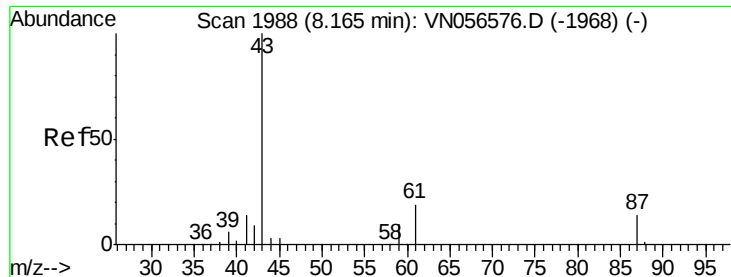
Tot Ion: 62 Resp: 896
 Ion Ratio Lower Upper
 62 100
 98 6.5 8.6 13.0#



#37
 Trichloroethene
 Concen: 2.664 ug/l
 RT: 8.83 min Scan# 2195
 Delta R.T. -0.00 min
 Lab File: VN056629.D
 Acq: 9 Jul 2019 14:53

Tgt Ion:130 Resp: 8758
 Ion Ratio Lower Upper
 130 100
 95 95.4 73.0 109.6





#44

Isopropyl Acetate

Concen: 4.172 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.14 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

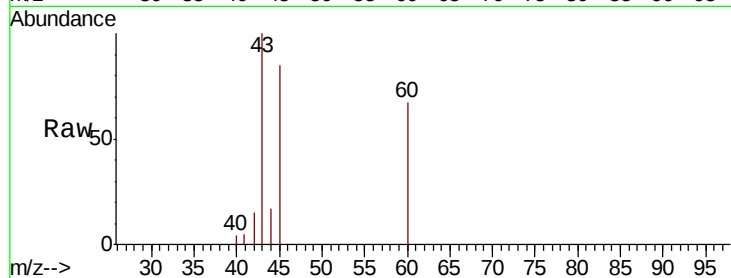
TT-003-IDW/GW-20190708

Tot Ion: 43 Resp: 28139

Ion Ratio Lower Upper

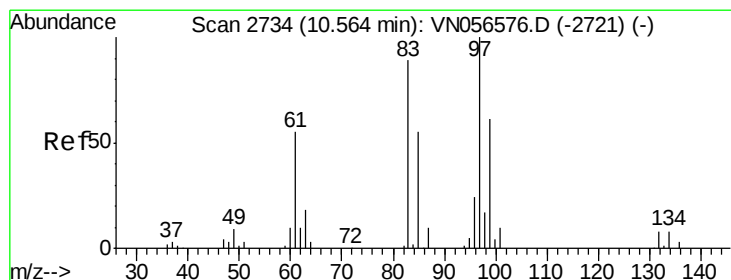
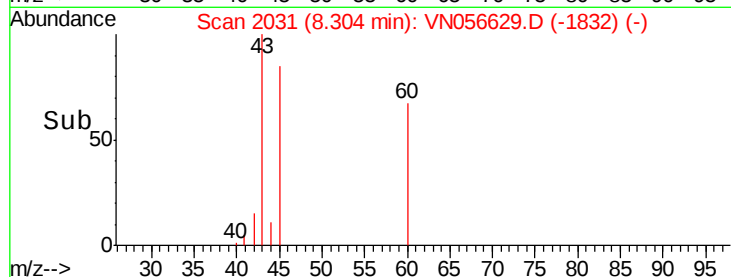
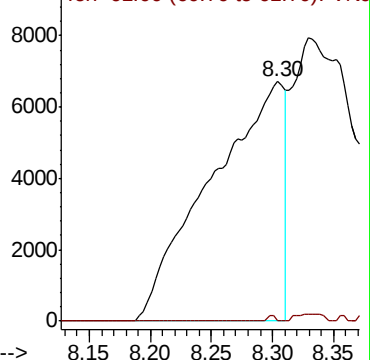
43 100

61 0.2 16.9 25.3#



Abundance Ion 43.00 (42.70 to 43.70): VN056629.D (-1832) (-)

Ion 61.00 (60.70 to 61.70): VN056629.D (-1832) (-)



#50

1,1,2-Trichloroethane

Concen: 3.116 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

Tgt Ion: 97 Resp: 9630

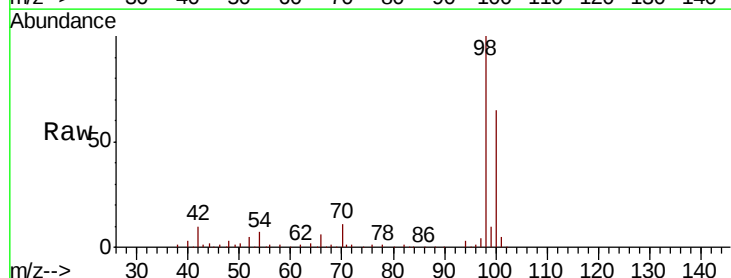
Ion Ratio Lower Upper

97 100

83 3.0 66.9 100.3#

85 0.0 43.3 64.9#

99 278.4 48.6 73.0#

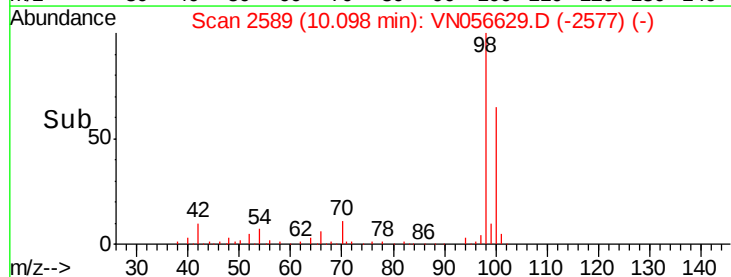
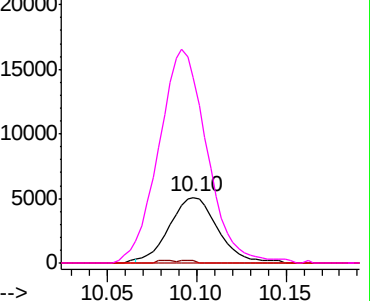


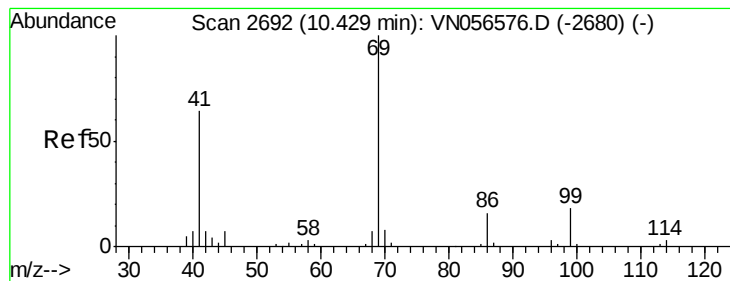
Abundance Ion 97.00 (96.70 to 97.70): VN056629.D (-2577) (-)

Ion 82.95 (82.65 to 83.65): VN056629.D (-2577) (-)

Ion 84.95 (84.65 to 85.65): VN056629.D (-2577) (-)

Ion 98.95 (98.65 to 99.65): VN056629.D (-2577) (-)





#51

Ethyl methacrylate

Concen: 0.216 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.33 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

TT-003-IDW/GW-20190708

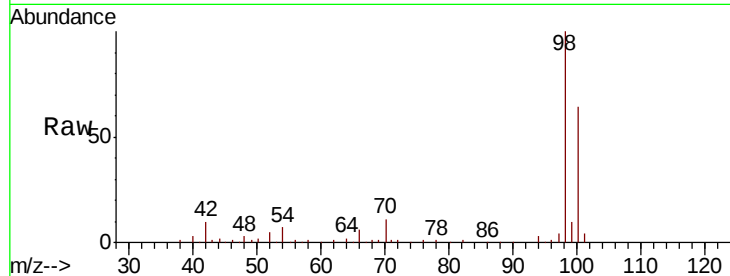
Tot Ion: 69 Resp: 1050

Ion Ratio Lower Upper

69 100

41 20.2 30.8 92.3#

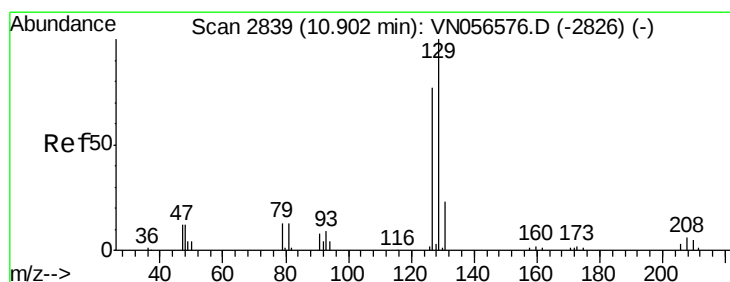
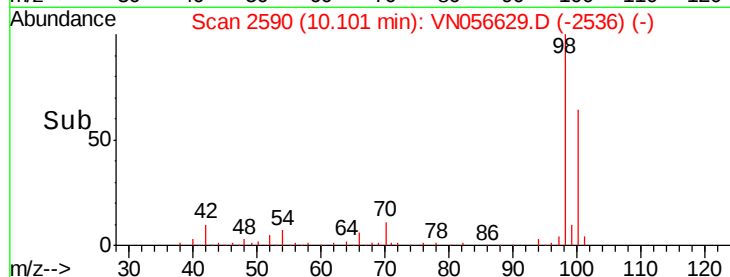
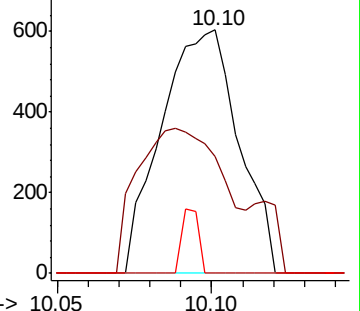
39 0.0 14.5 43.6#



Abundance Ion 69.00 (68.70 to 69.70): VN056576.D (-2680) (-)

Ion 41.00 (40.70 to 41.70): VN056576.D (-2680) (-)

Ion 39.00 (38.70 to 39.70): VN056576.D (-2680) (-)



#53

Dibromochloromethane

Concen: 0.752 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN056629.D

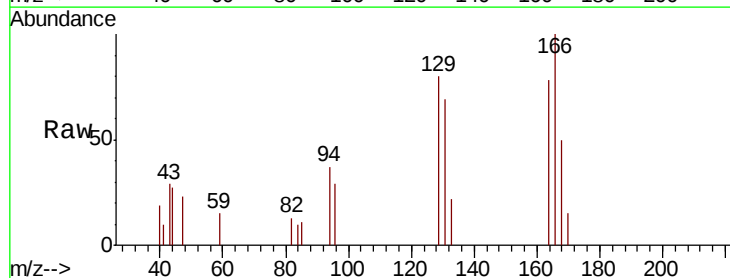
Acq: 9 Jul 2019 14:53

Tgt Ion: 129 Resp: 2279

Ion Ratio Lower Upper

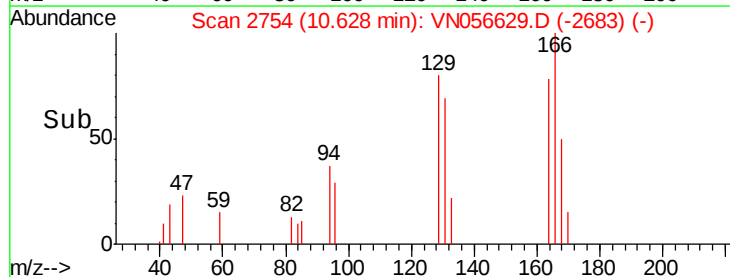
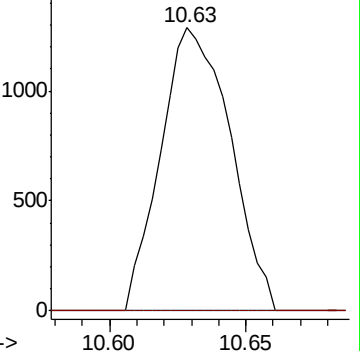
129 100

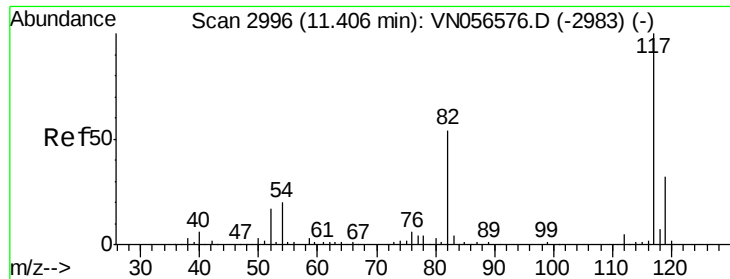
127 0.0 39.1 117.5#



Abundance Ion 129.00 (128.70 to 129.70): VN056576.D (-2826) (-)

Ion 127.00 (126.70 to 127.70): VN056576.D (-2826) (-)

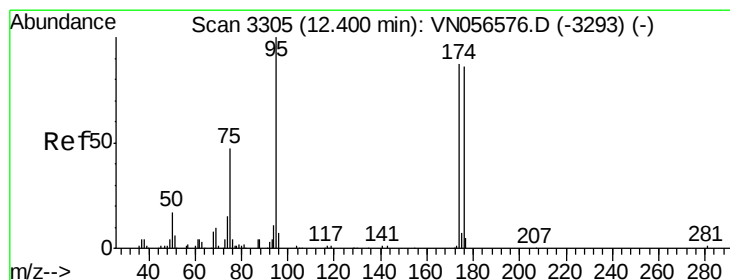
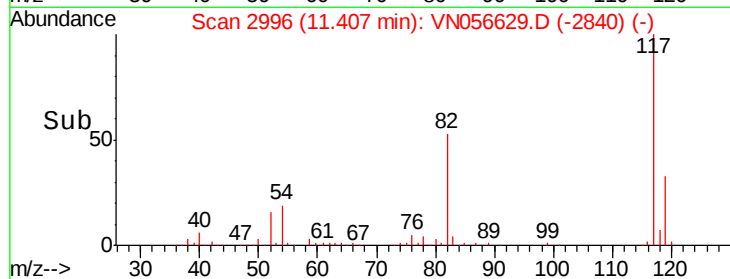
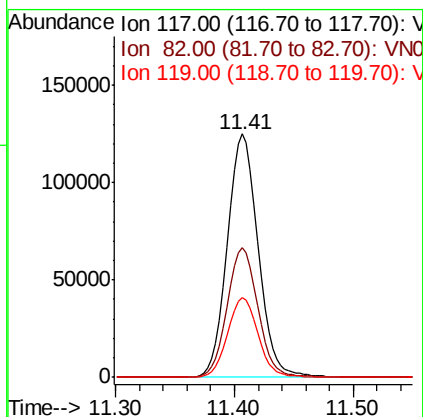
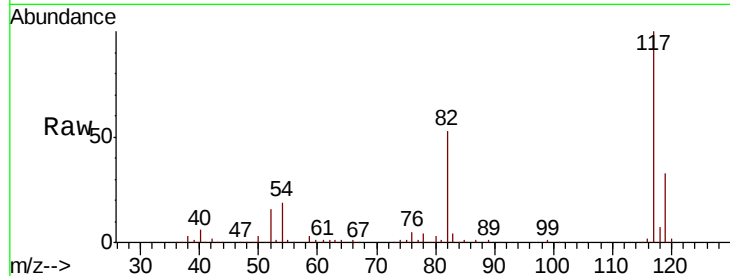




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056629.D
Acq: 9 Jul 2019 14:53

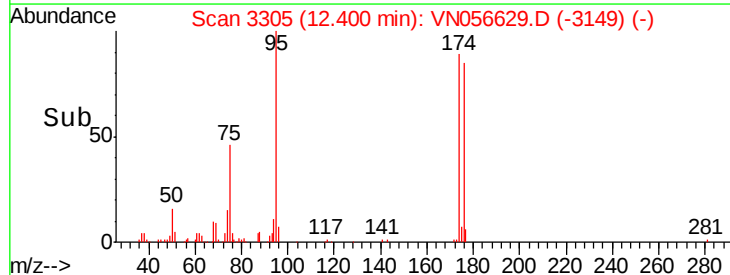
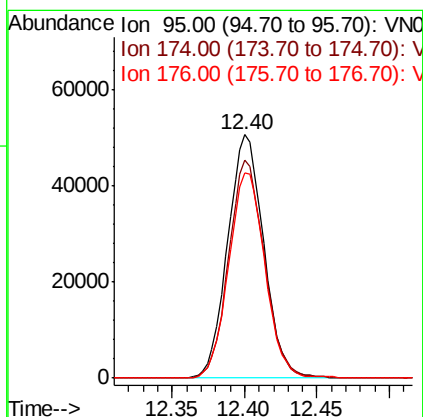
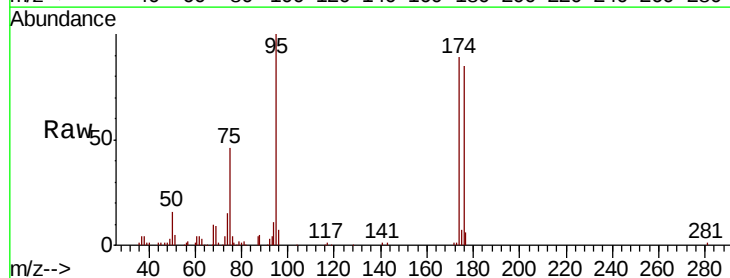
Instrument :
MSVOA_N
ClientSampleId :
TT-003-IDW/GW-20190708

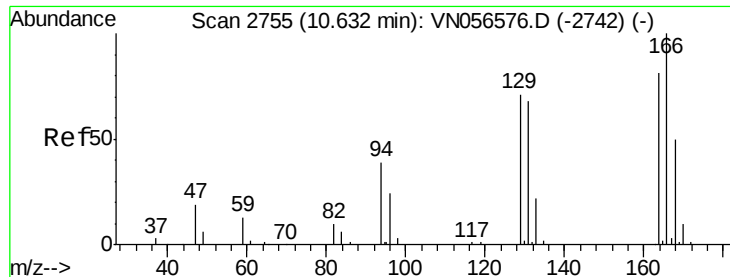
Tot Ion:117 Resp: 224633
Ion Ratio Lower Upper
117 100
82 53.5 41.2 61.8
119 32.3 26.2 39.2



#60
4-Bromofluorobenzene
Concen: 25.338 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056629.D
Acq: 9 Jul 2019 14:53

Tgt Ion: 95 Resp: 87462
Ion Ratio Lower Upper
95 100
174 88.9 75.4 113.0
176 85.2 73.9 110.9





#61

Tetrachloroethene

Concen: 0.698 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

TT-003-IDW/GW-20190708

Tot Ion:164 Resp: 1968

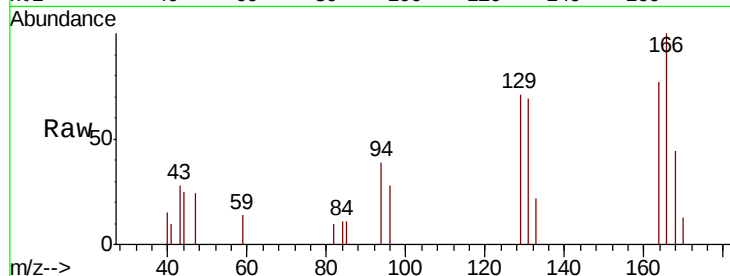
Ion Ratio Lower Upper

164 100

166 112.2 104.3 156.5

129 81.6 71.5 107.3

131 90.3 67.7 101.5

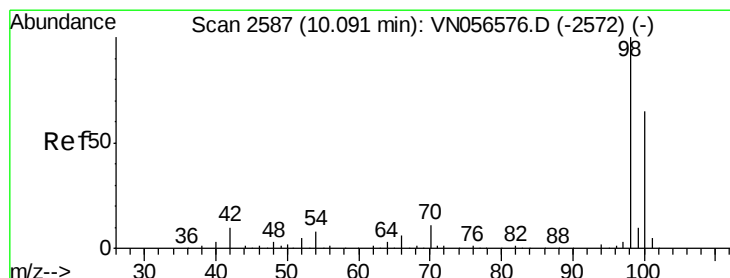
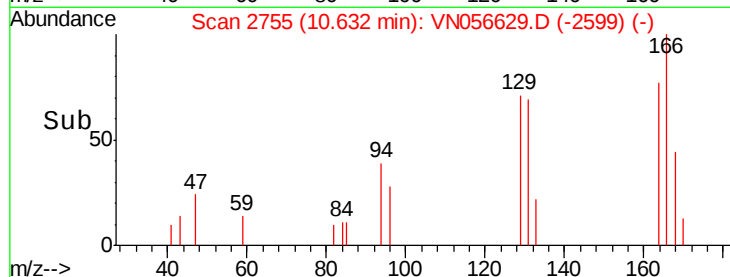
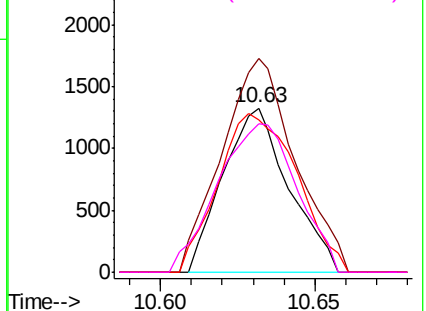


Abundance Ion 163.85 (163.55 to 164.55): V

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: 30.331 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056629.D

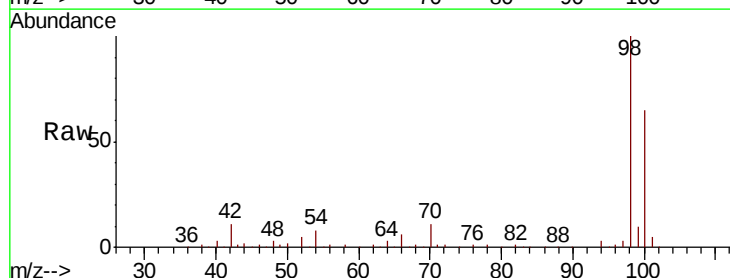
Acq: 9 Jul 2019 14:53

Tgt Ion: 98 Resp: 316609

Ion Ratio Lower Upper

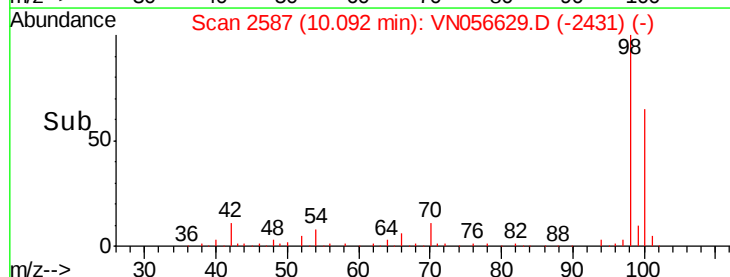
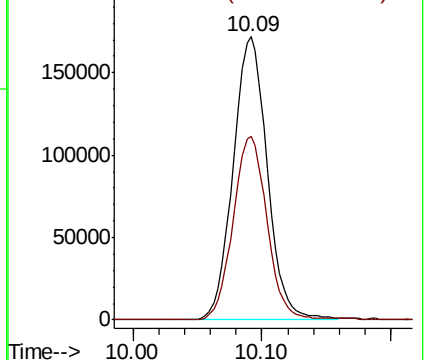
98 100

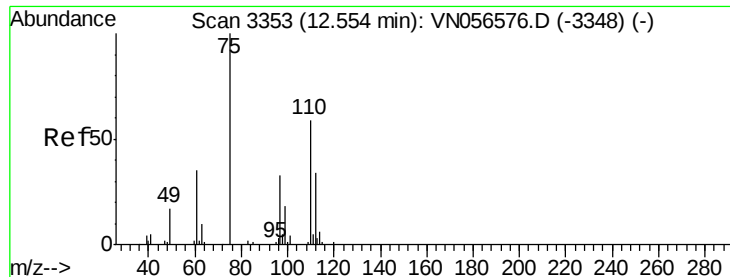
100 64.4 52.2 78.4



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: 11.186 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

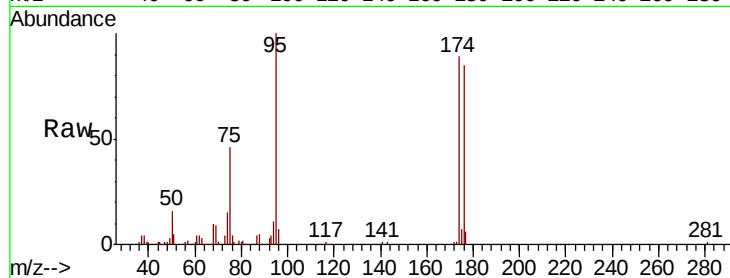
TT-003-IDW/GW-20190708

Tot Ion: 75 Resp: 40257

Ion Ratio Lower Upper

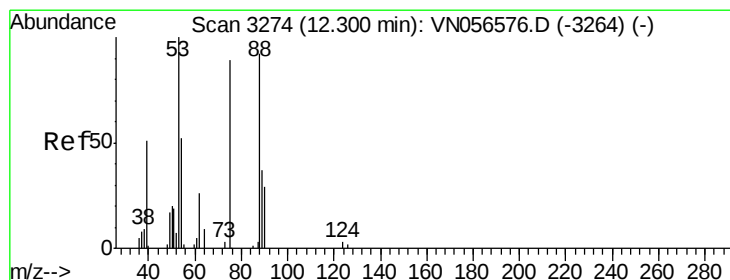
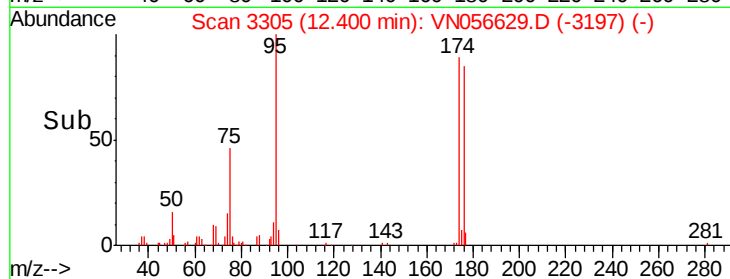
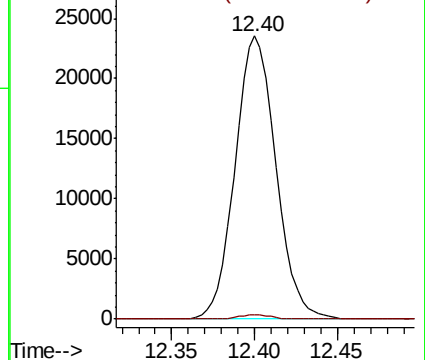
75 100

77 1.1 0.0 350.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 34.923 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056629.D

Acq: 9 Jul 2019 14:53

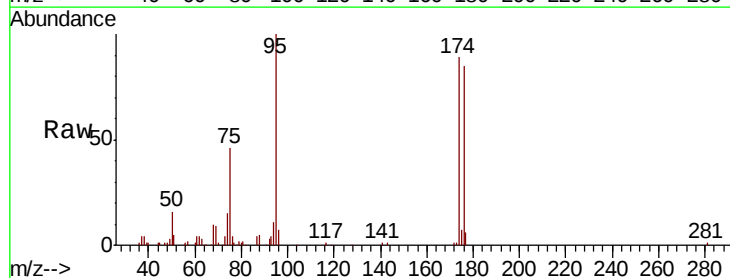
Tgt Ion: 75 Resp: 40257

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

