

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056024.D
 Acq On : 5 Jun 2019 23:28
 Operator : JC/SP
 Sample : K3182-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10

Quant Time: Jun 06 04:12:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	54695	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	293818	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	238110	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	102931	30.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.00%
60) 4-Bromofluorobenzene	12.40	95	83793	23.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	79.13%
63) Toluene-d8	10.09	98	340900	31.56	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.20%

Target Compounds

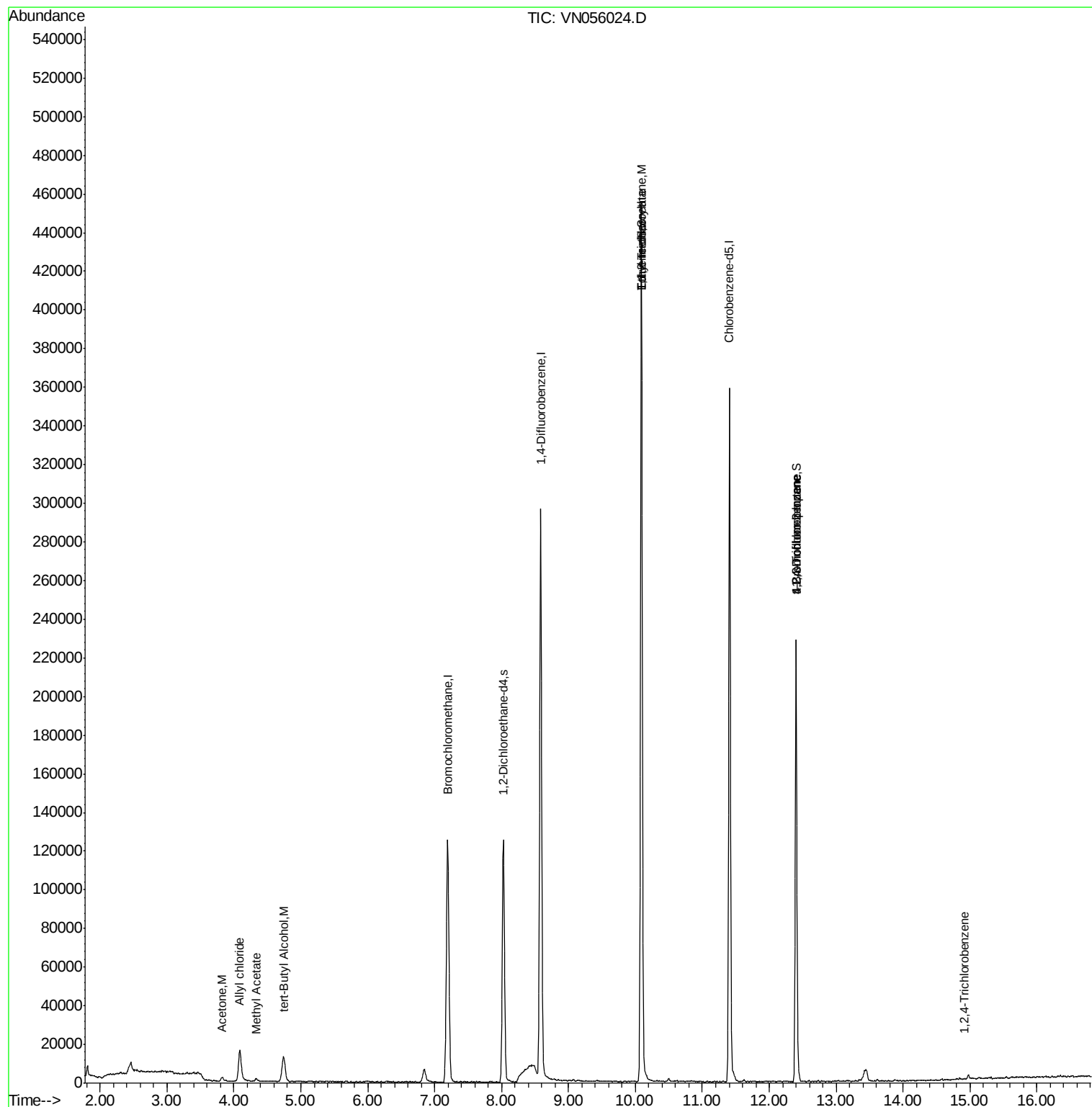
					Ovalue
12) Methyl Acetate	4.32	43	1319	0.384 ug/l #	85
15) Acetone	3.82	58	641	1.280 ug/l #	39
17) Allyl chloride	4.08	41	2791	0.631 ug/l #	75
23) tert-Butyl Alcohol	4.74	59	12716	21.352 ug/l #	100
50) 1,1,2-Trichloroethane	10.10	97	9764	3.057 ug/l #	1
51) Ethyl methacrylate	10.10	69	1054	0.218 ug/l #	74
72) 1,2,3-Trichloropropane	12.40	75	37986	10.858 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	37986	38.053 ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	228	8.607 ug/l #	57

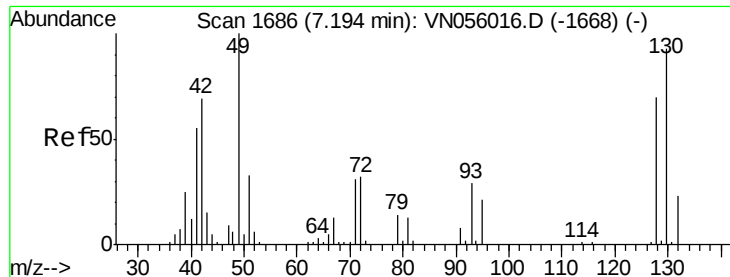
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampleId :
MW-10

Quant Time: Jun 06 04:12:31 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 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: VN056024.D

Acq: 5 Jun 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

MW-10

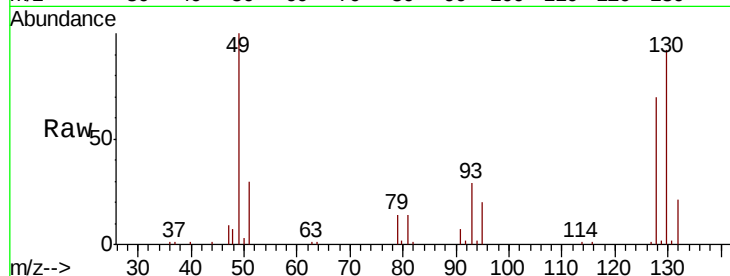
Tot Ion:128 Resp: 54695

Ion Ratio Lower Upper

128 100

49 139.9 0.0 355.8

130 130.9 0.0 326.3

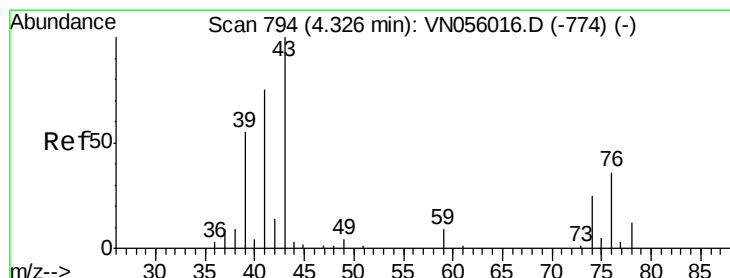
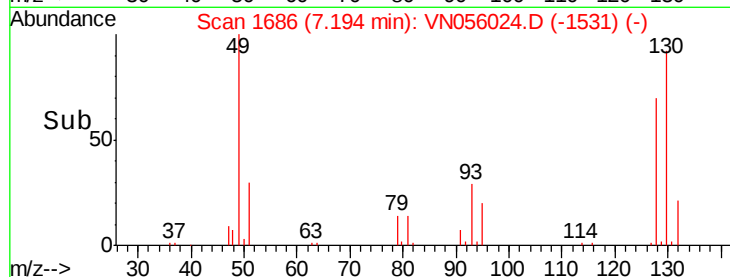
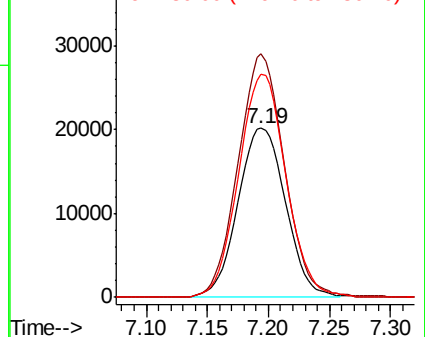


Abundance

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



#12

Methyl Acetate

Concen: 0.384 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN056024.D

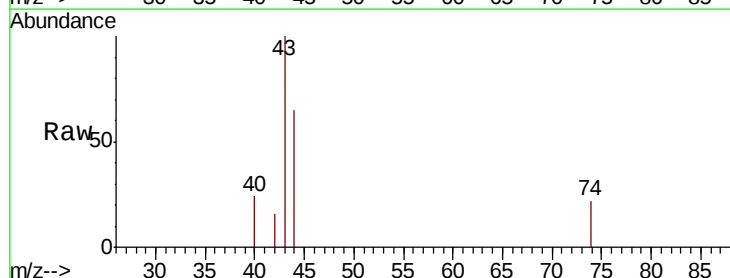
Acq: 5 Jun 2019 23:28

Tgt Ion: 43 Resp: 1319

Ion Ratio Lower Upper

43 100

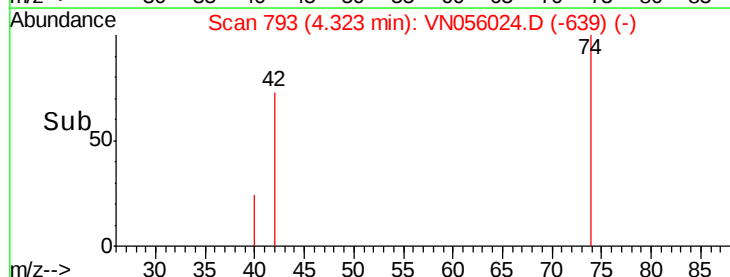
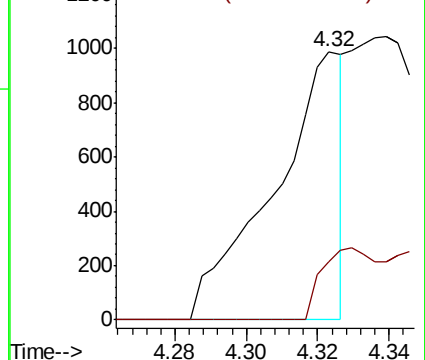
74 17.6 19.9 29.9#

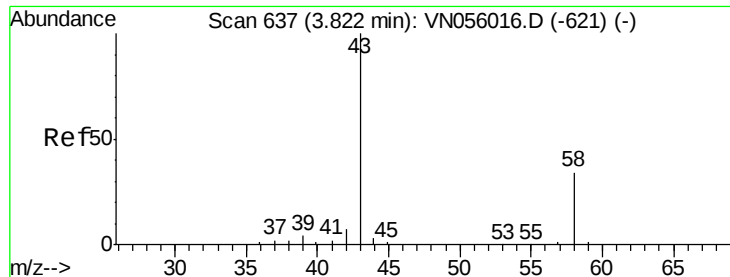


Abundance

Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN





#15

Acetone

Concen: 1.280 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN056024.D

Acq: 5 Jun 2019 23:28

Instrument :

MSVOA_N

ClientSampled :

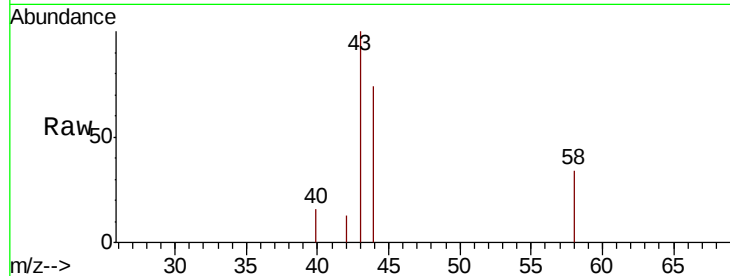
MW-10

Tot Ion: 58 Resp: 641

Ion Ratio Lower Upper

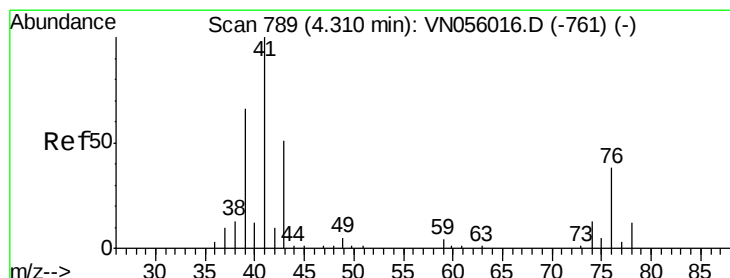
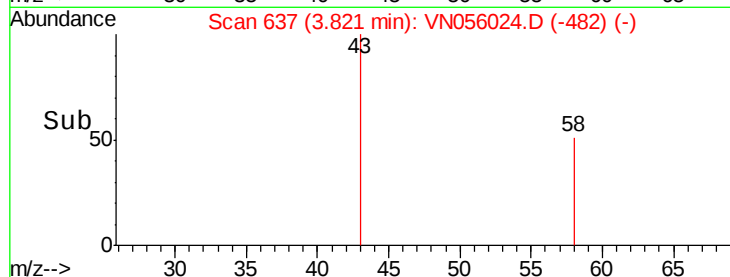
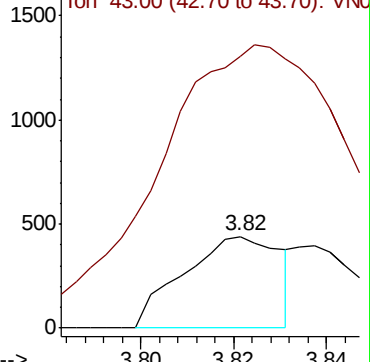
58 100

43 174.0 232.5 348.7#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#17

Allyl chloride

Concen: 0.631 ug/l

RT: 4.08 min Scan# 718

Delta R.T. -0.23 min

Lab File: VN056024.D

Acq: 5 Jun 2019 23:28

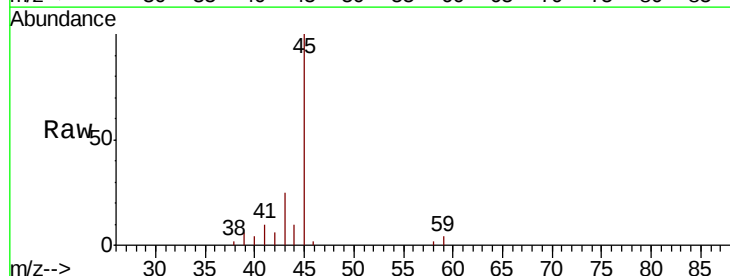
Tgt Ion: 41 Resp: 2791

Ion Ratio Lower Upper

41 100

39 63.8 33.0 99.0

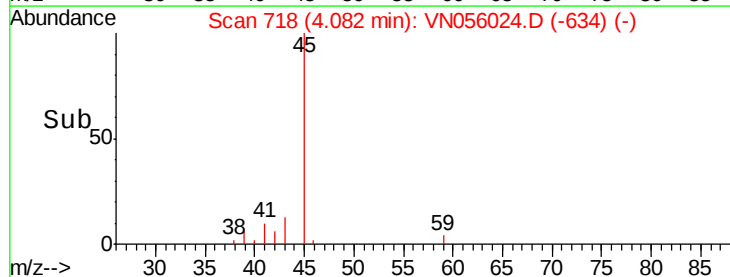
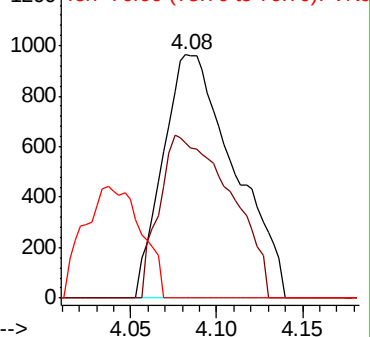
76 0.0 18.9 56.9#

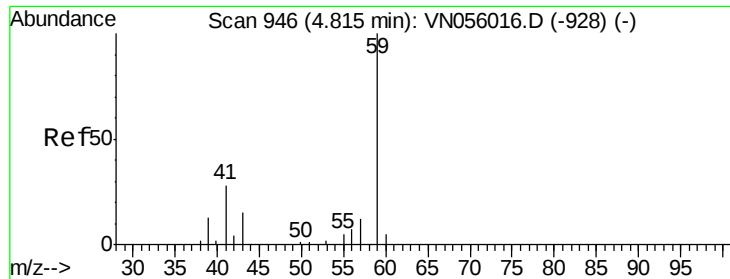


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 76.00 (75.70 to 76.70): VN0



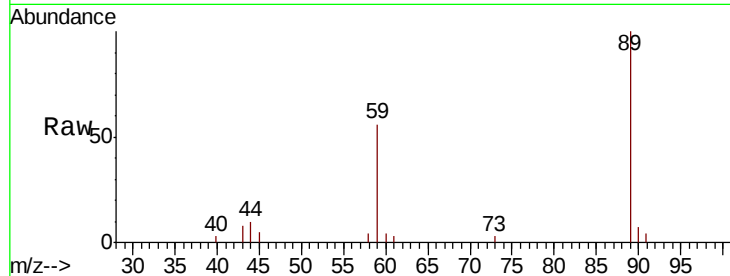


#23

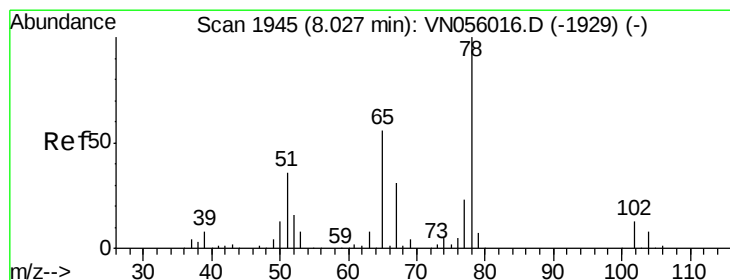
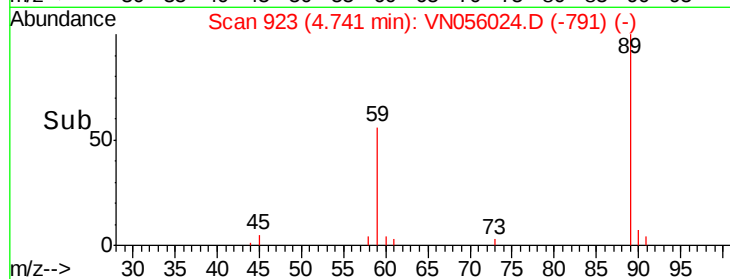
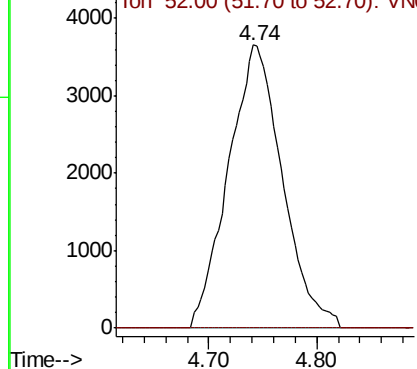
tert-Butyl Alcohol
 Concen: 21.352 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.07 min
 Lab File: VN056024.D
 Acq: 5 Jun 2019 23:28

Instrument :
 MSVOA_N
 ClientSampled :
 MW-10

Tot Ion: 59 Resp: 12716
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



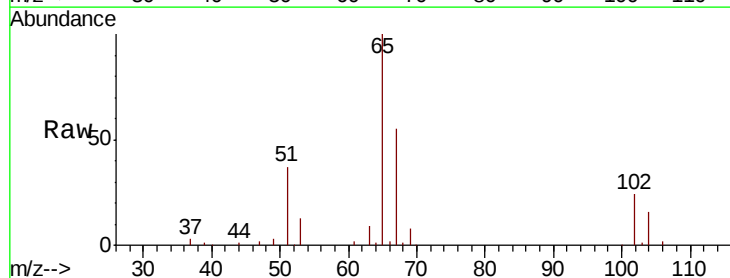
Abundance Ion 59.00 (58.70 to 59.70): VN0
 Ion 52.00 (51.70 to 52.70): VN0



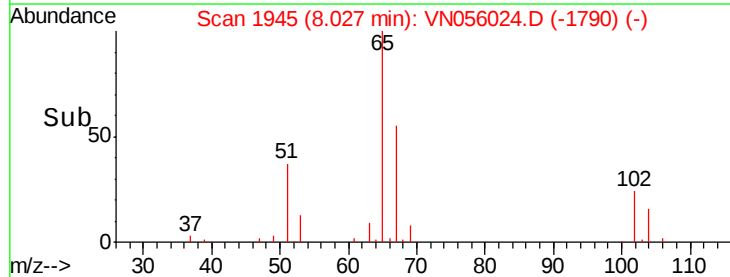
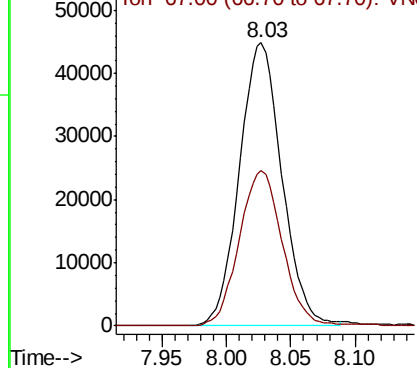
#27

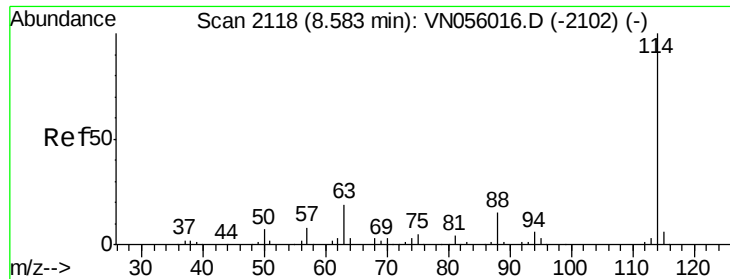
1,2-Dichloroethane-d4
 Concen: 30.305 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056024.D
 Acq: 5 Jun 2019 23:28

Tgt Ion: 65 Resp: 102931
 Ion Ratio Lower Upper
 65 100
 67 55.3 43.4 65.2



Abundance Ion 65.00 (64.70 to 65.70): VN0
 Ion 67.00 (66.70 to 67.70): VN0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN056024.D

Acq: 5 Jun 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

MW-10

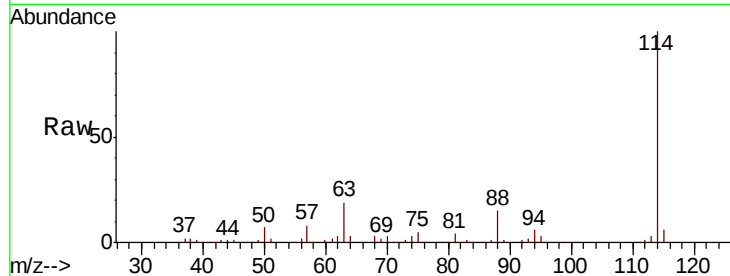
Tot Ion:114 Resp: 293818

Ion Ratio Lower Upper

114 100

63 18.3 14.7 22.1

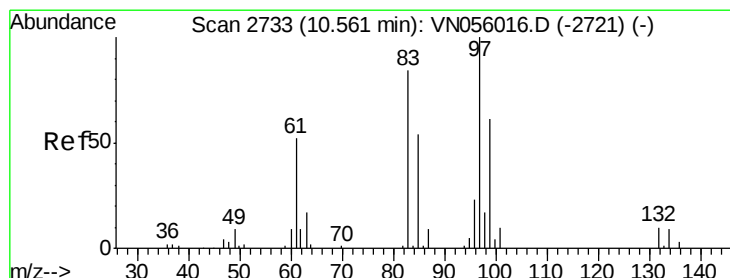
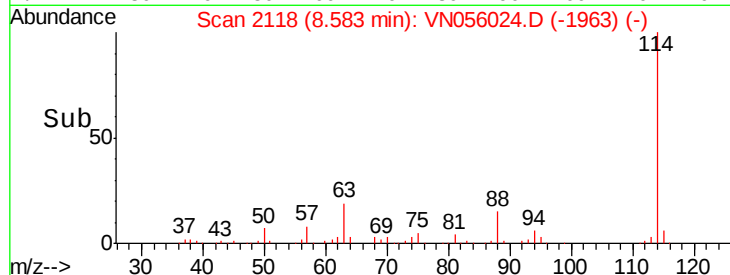
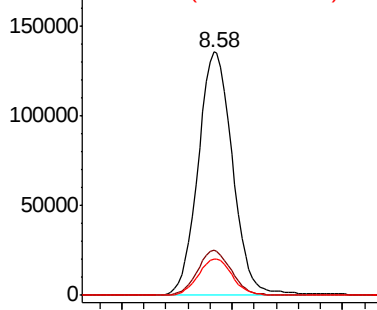
88 14.7 11.9 17.9



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VNO

Ion 88.00 (87.70 to 88.70): VNO



#50

1,1,2-Trichloroethane

Concen: 3.057 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN056024.D

Acq: 5 Jun 2019 23:28

Tgt Ion: 97 Resp: 9764

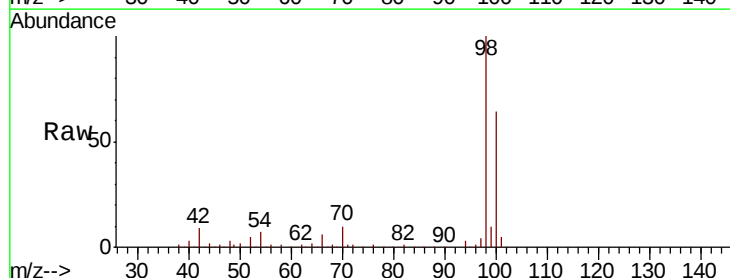
Ion Ratio Lower Upper

97 100

83 0.0 66.9 100.3#

85 0.0 43.3 64.9#

99 265.8 48.6 73.0#

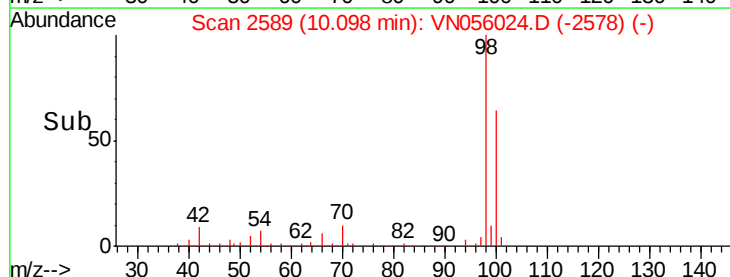
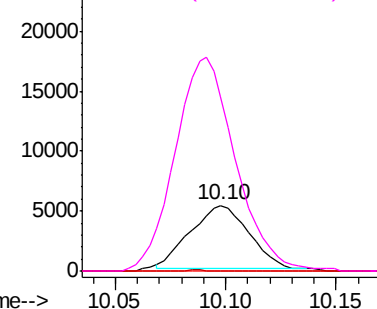


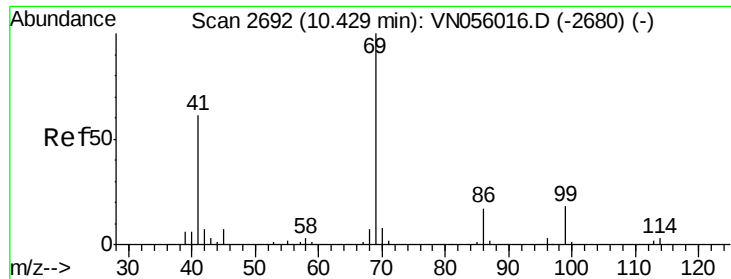
Abundance Ion 97.00 (96.70 to 97.70): VNO

Ion 82.95 (82.65 to 83.65): VNO

Ion 84.95 (84.65 to 85.65): VNO

Ion 98.95 (98.65 to 99.65): VNO

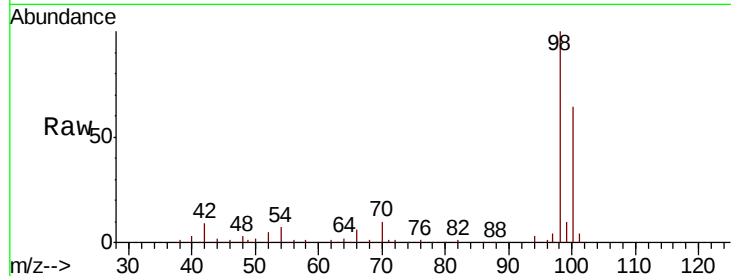




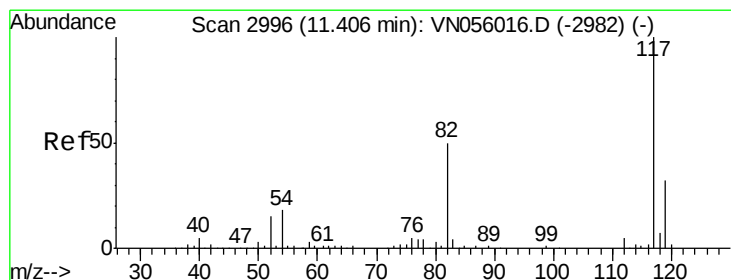
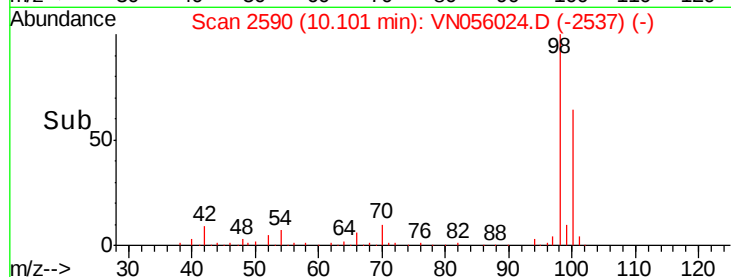
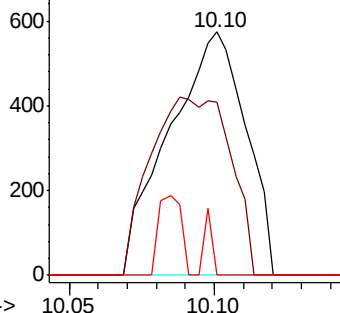
#51
Ethyl methacrylate
Concen: 0.218 ug/l
RT: 10.10 min Scan# 2590
Delta R.T. -0.33 min
Lab File: VN056024.D
Acq: 5 Jun 2019 23:28

Instrument :
MSVOA_N
ClientSampleId :
MW-10

Tot Ion: 69 Resp: 1054
Ion Ratio Lower Upper
69 100
41 71.4 30.8 92.3
39 0.0 14.5 43.6#

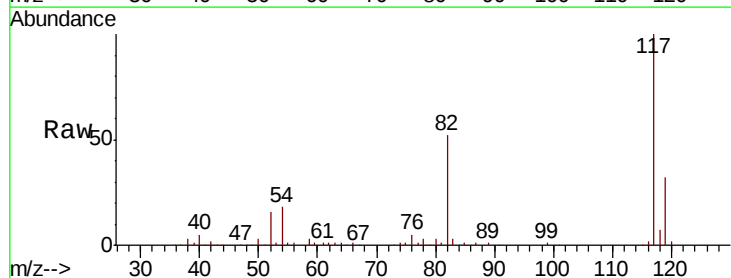


Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

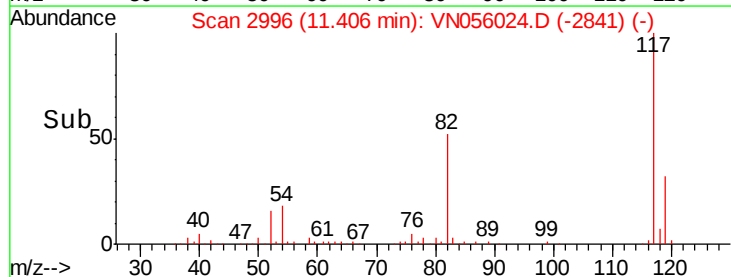
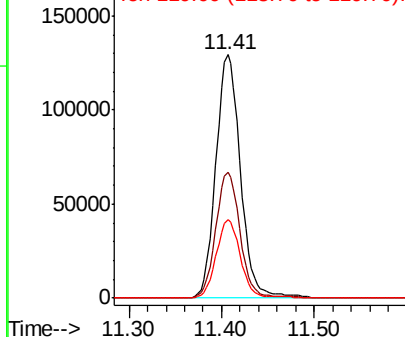


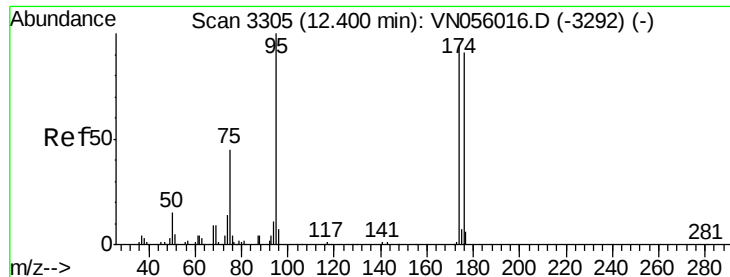
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056024.D
Acq: 5 Jun 2019 23:28

Tgt Ion: 117 Resp: 238110
Ion Ratio Lower Upper
117 100
82 50.7 41.2 61.8
119 31.3 26.2 39.2



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 23.742 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056024.D

Acq: 5 Jun 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

MW-10

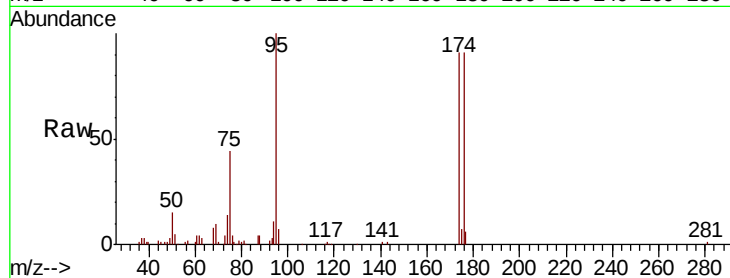
Tot Ion: 95 Resp: 83793

Ion Ratio Lower Upper

95 100

174 94.0 75.4 113.0

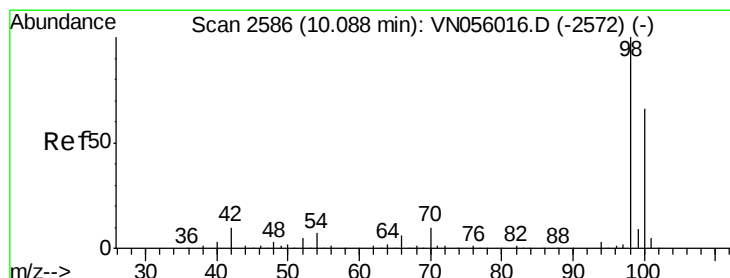
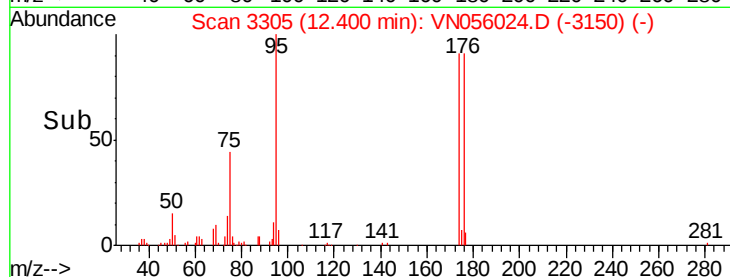
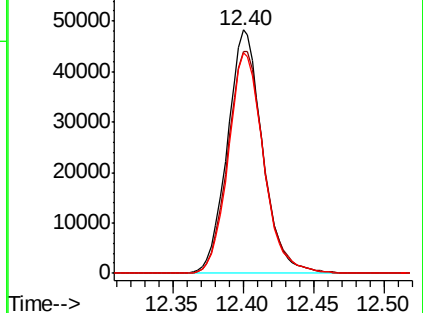
176 90.7 73.9 110.9



Abundance Ion 95.00 (94.70 to 95.70): VN056016.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN056016.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN056016.D (-3292) (-)



#63

Toluene-d8

Concen: 31.561 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056024.D

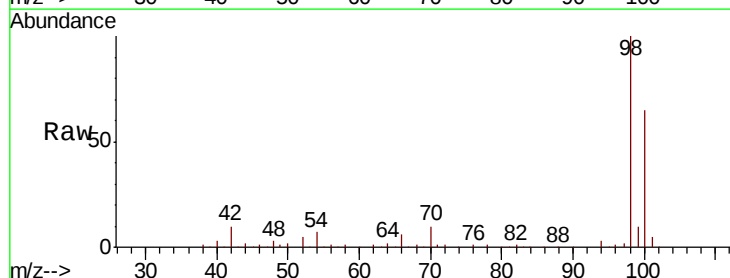
Acq: 5 Jun 2019 23:28

Tgt Ion: 98 Resp: 340900

Ion Ratio Lower Upper

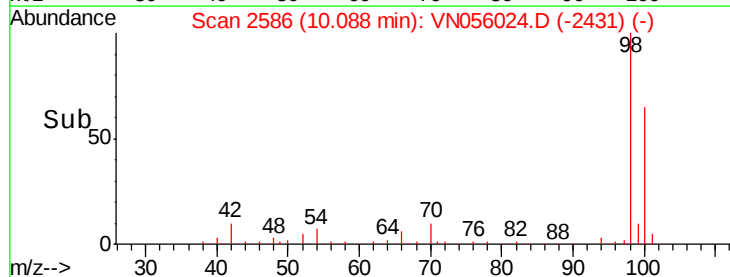
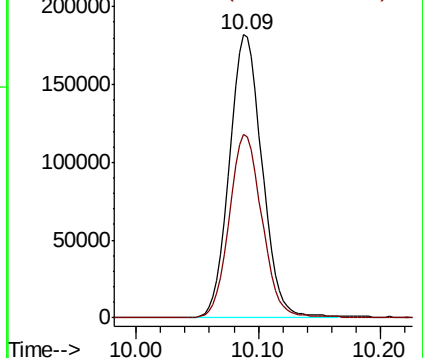
98 100

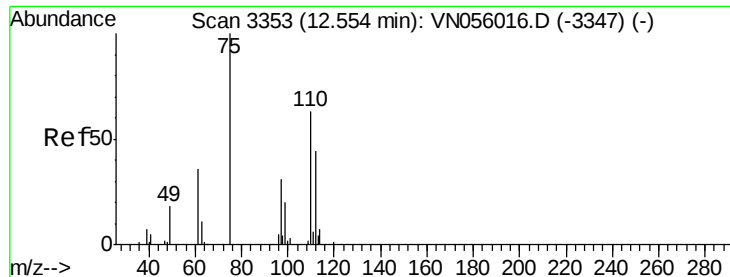
100 65.0 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN056016.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN056016.D (-2572) (-)





#72

1,2,3-Trichloropropane

Concen: 10.858 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056024.D

Acq: 5 Jun 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

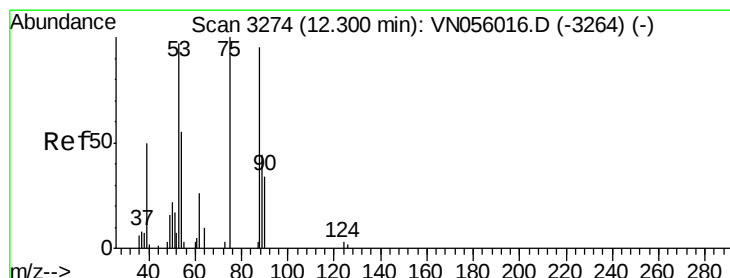
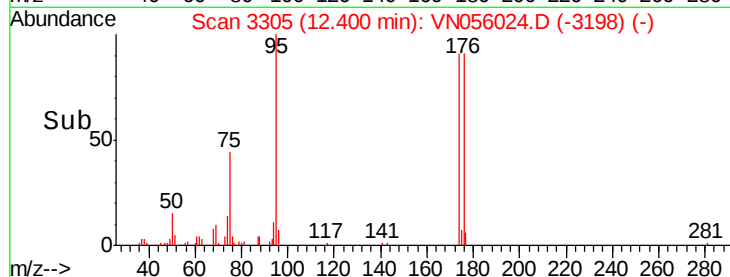
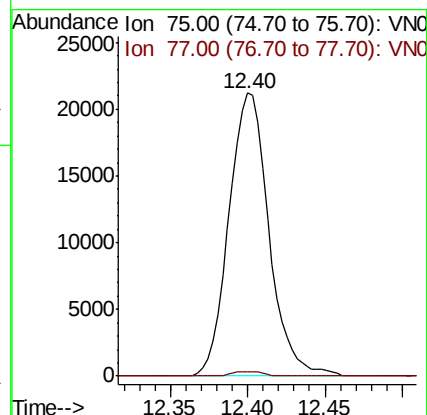
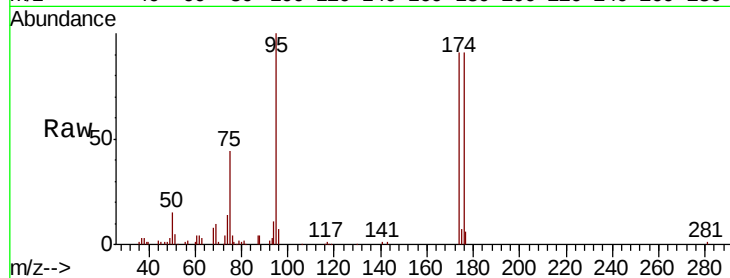
MW-10

Tot Ion: 75 Resp: 37986

Ion Ratio Lower Upper

75 100

77 1.2 0.0 350.0



#77

t-1,4-Dichloro-2-butene

Concen: 38.053 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056024.D

Acq: 5 Jun 2019 23:28

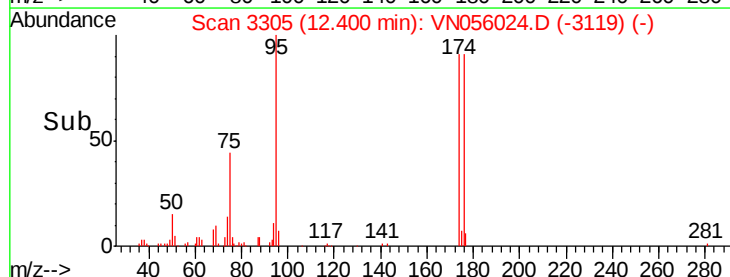
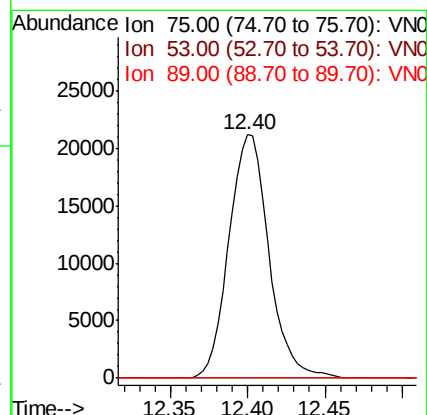
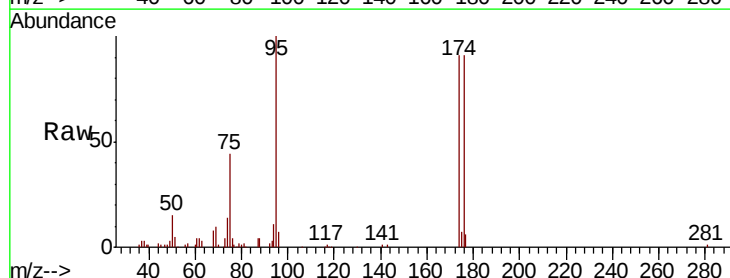
Tgt Ion: 75 Resp: 37986

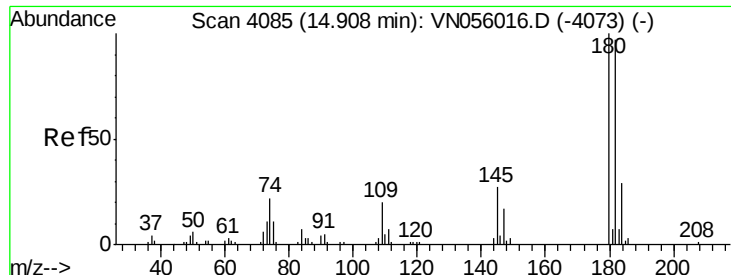
Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

89 0.0 22.5 67.5#





#89

1,2,4-Trichlorobenzene

Concen: 8.607 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN056024.D

Acq: 5 Jun 2019 23:28

Instrument :

MSVOA_N

ClientSampleId :

MW-10

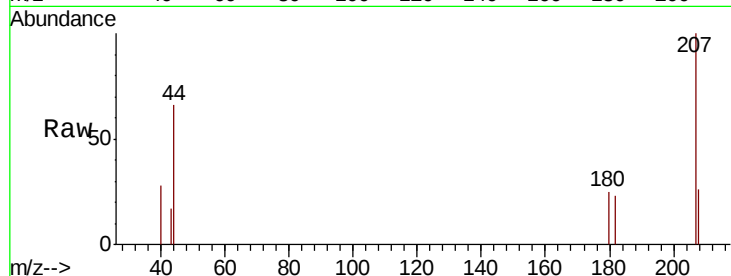
Tot Ion:180 Resp: 228

Ion Ratio Lower Upper

180 100

182 55.7 75.0 112.6#

145 0.0 22.1 33.1#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

