

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
 Data File : VN057583.D
 Acq On : 30 Aug 2019 12:37
 Operator : JC/SP
 Sample : K4577-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GW-1

Quant Time: Aug 31 00:05:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Aug 31 00:00:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	80477	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	464324	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	357939	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	197910	31.92	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.40%
60) 4-Bromofluorobenzene	12.40	95	117980	21.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	72.27%
63) Toluene-d8	10.08	98	552512	33.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	111.10%

Target Compounds

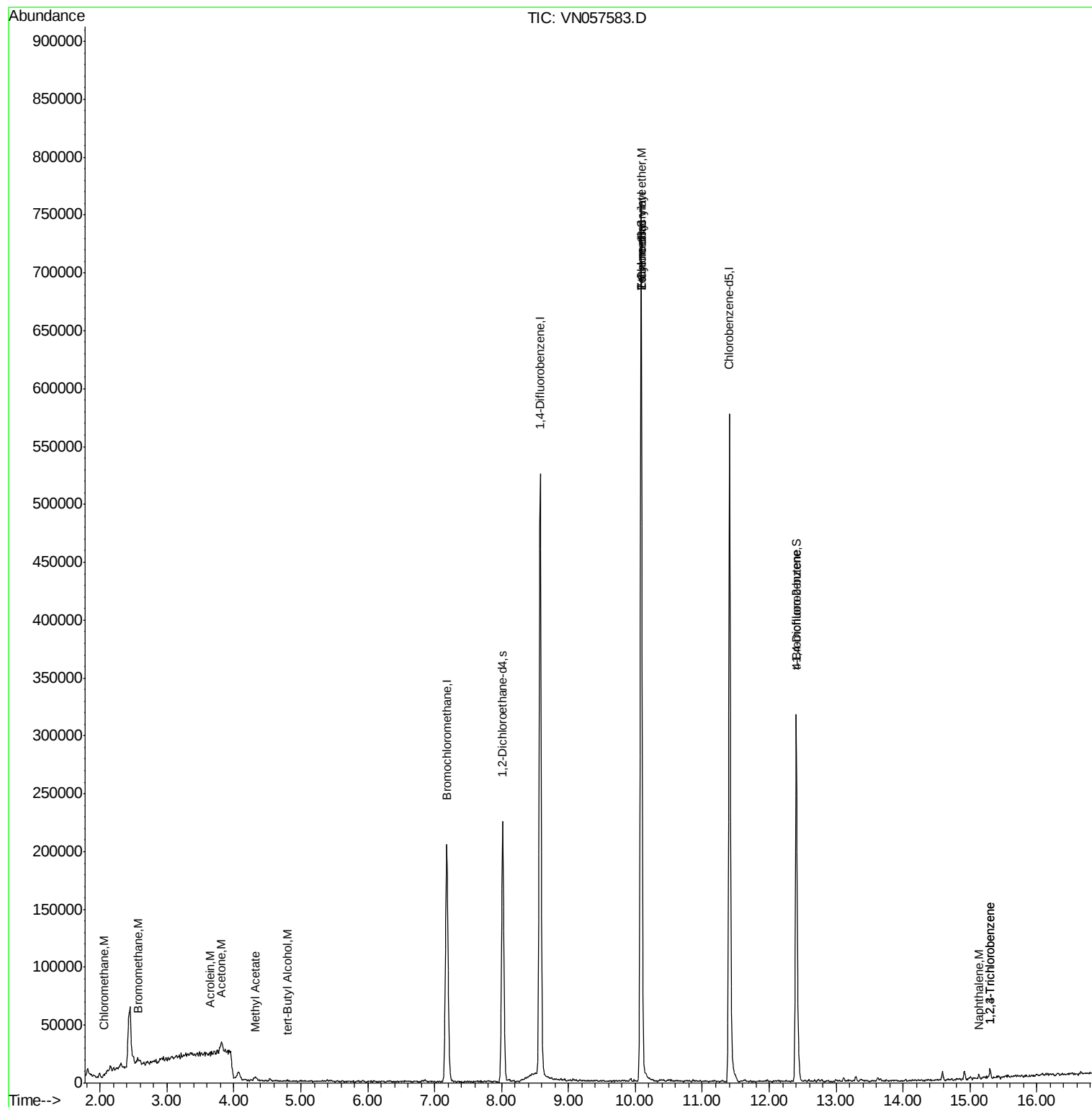
					Qvalue	
3) Chloromethane	2.06	50	1568	0.414	ug/l #	82
5) Bromomethane	2.56	94	3120	0.578	ug/l	97
12) Methyl Acetate	4.31	43	1881	0.489	ug/l #	73
13) Acrolein	3.65	56	379	0.773	ug/l	99
15) Acetone	3.81	58	2616	3.205	ug/l	90
23) tert-Butyl Alcohol	4.79	59	414	0.738	ug/l #	88
51) Ethyl methacrylate	10.09	69	1980	0.300	ug/l	77
55) 2-Chloroethyl vinyl ether	10.09	63	642	0.397	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	67031	47.636	ug/l #	8
89) 1,2,4-Trichlorobenzene	15.30	180	2139	0.742	ug/l	95
91) Naphthalene	15.14	128	3491	0.435	ug/l #	80
92) 1,2,3-Trichlorobenzene	15.30	180	2139	0.749	ug/l	91

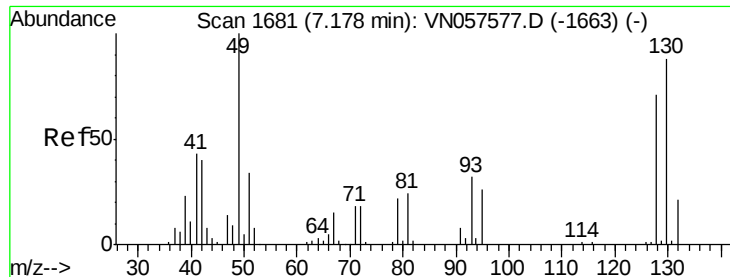
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
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Quant Time: Aug 31 00:05:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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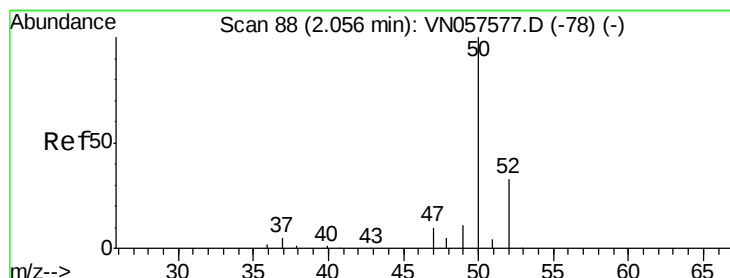
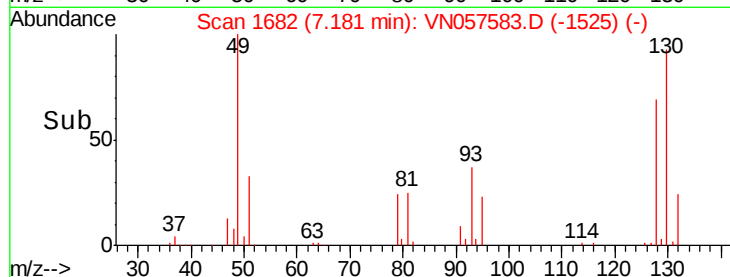
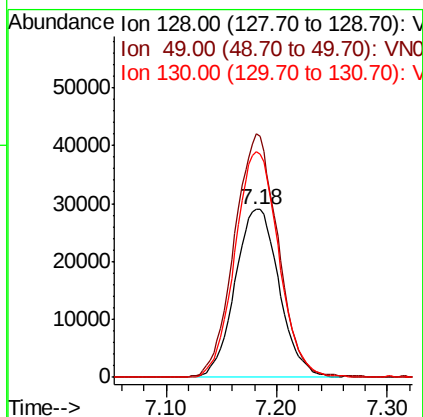
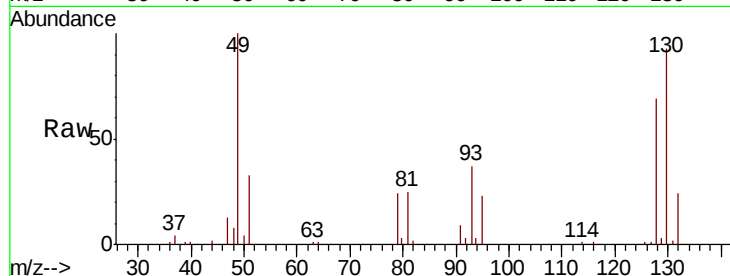




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN057583.D
Acq: 30 Aug 2019 12:37

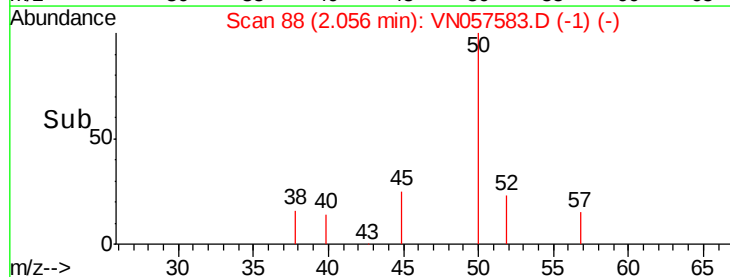
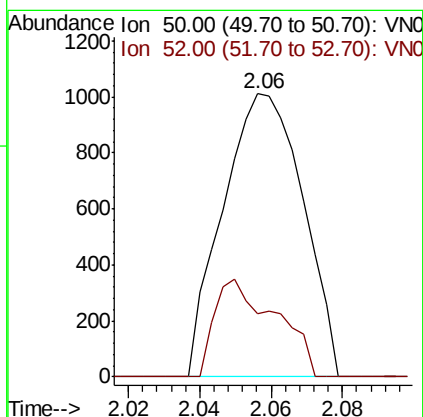
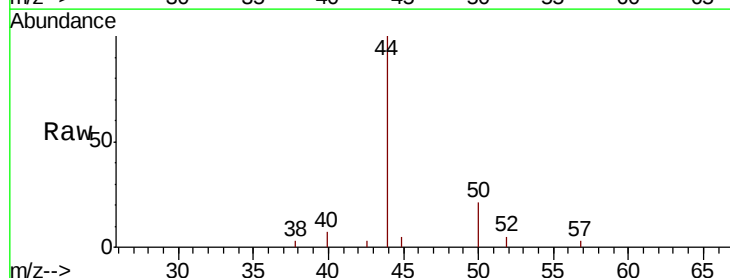
Instrument :
MSVOA_N
ClientSampled :
GW-1

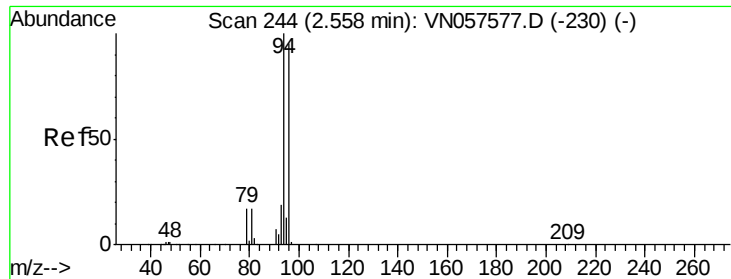
Tgt Ion:128 Resp: 80477
Ion Ratio Lower Upper
128 100
49 141.5 0.0 352.3
130 132.5 0.0 324.7



#3
Chloromethane
Concen: 0.414 ug/l
RT: 2.06 min Scan# 88
Delta R.T. 0.00 min
Lab File: VN057583.D
Acq: 30 Aug 2019 12:37

Tgt Ion: 50 Resp: 1568
Ion Ratio Lower Upper
50 100
52 22.6 26.2 39.2#





#5

Bromomethane

Concen: 0.578 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.01 min

Lab File: VN057583.D

Acq: 30 Aug 2019 12:37

Instrument :

MSVOA_N

ClientSampleId :

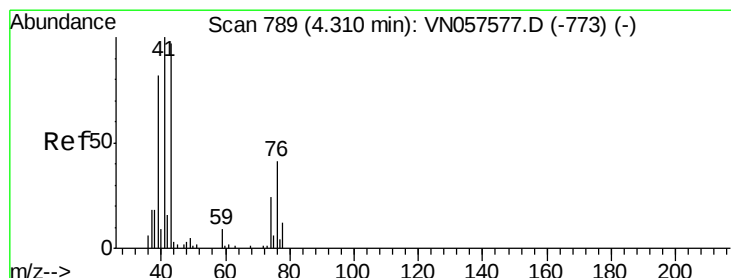
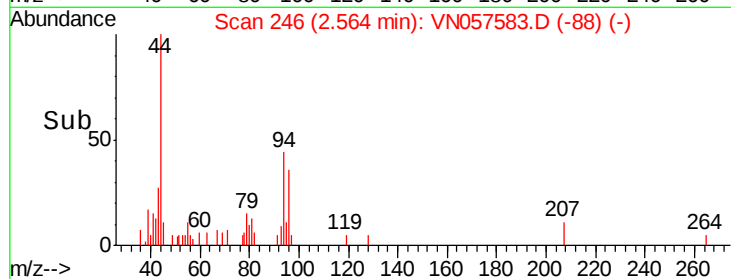
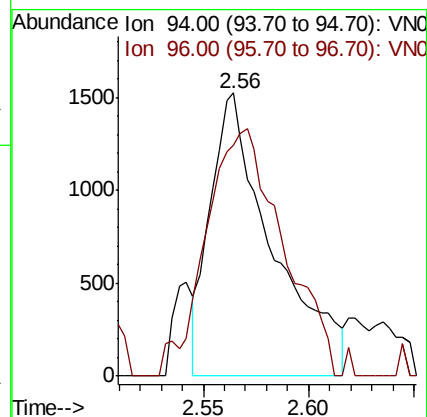
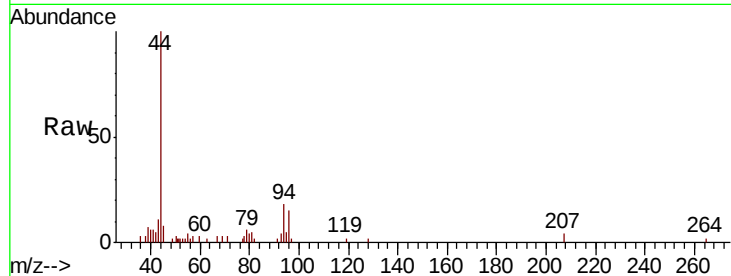
GW-1

Tgt Ion: 94 Resp: 3120

Ion Ratio Lower Upper

94 100

96 98.3 76.2 114.4



#12

Methyl Acetate

Concen: 0.489 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN057583.D

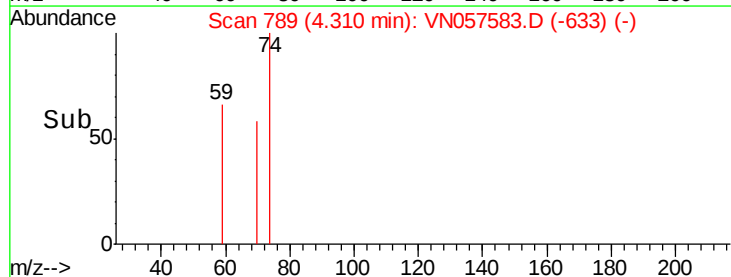
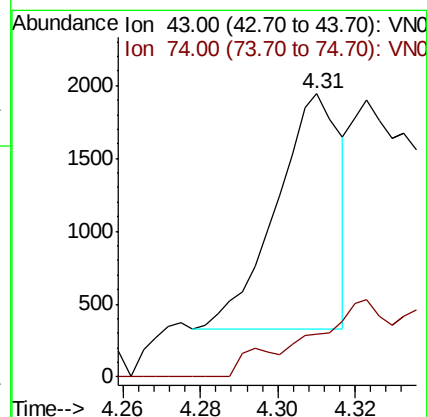
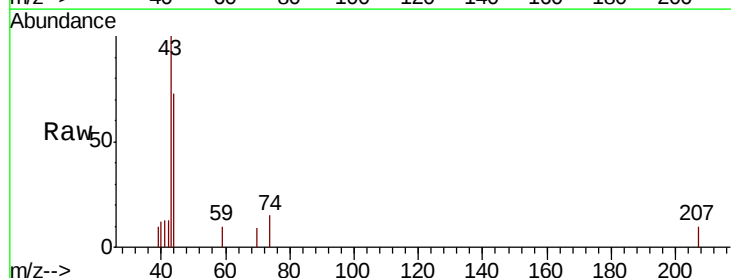
Acq: 30 Aug 2019 12:37

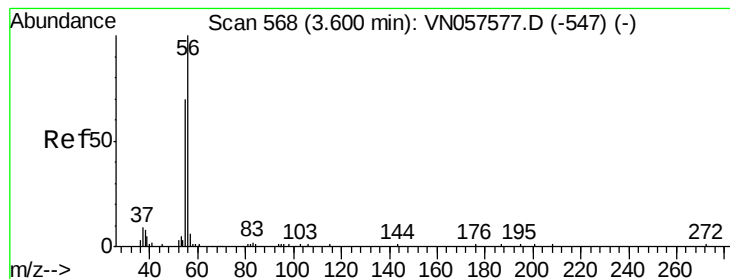
Tgt Ion: 43 Resp: 1881

Ion Ratio Lower Upper

43 100

74 10.8 19.6 29.4#





#13

Acrolein

Concen: 0.773 ug/l

RT: 3.65 min Scan# 583

Delta R.T. 0.05 min

Lab File: VN057583.D

Acq: 30 Aug 2019 12:37

Instrument :

MSVOA_N

ClientSampled :

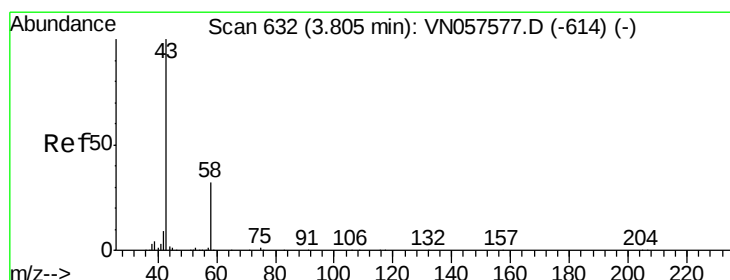
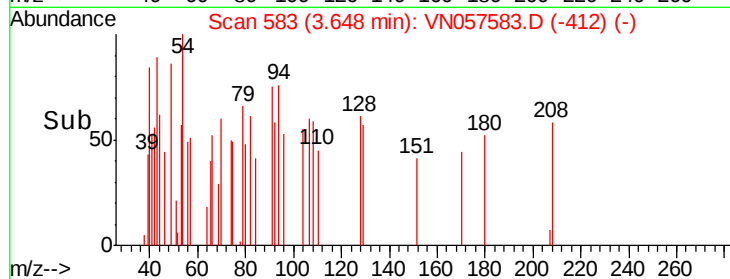
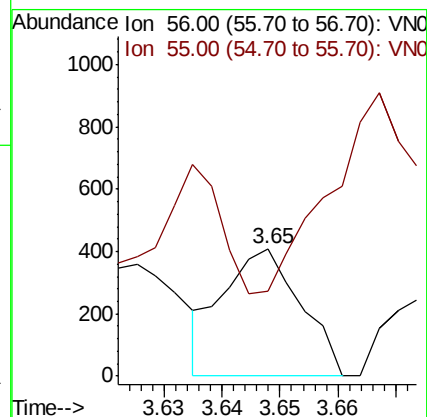
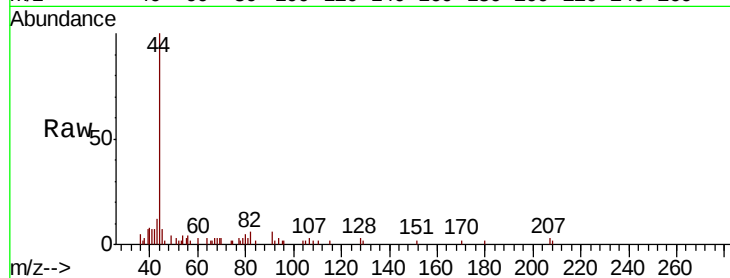
GW-1

Tgt Ion: 56 Resp: 379

Ion Ratio Lower Upper

56 100

55 67.5 54.5 81.7



#15

Acetone

Concen: 3.205 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN057583.D

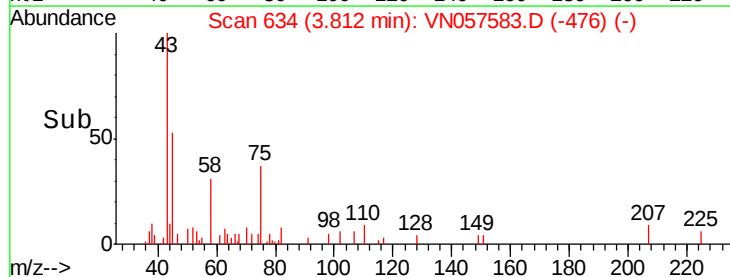
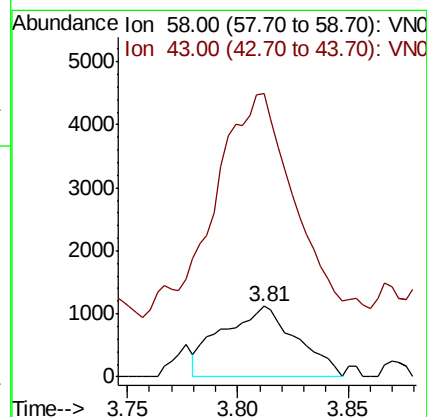
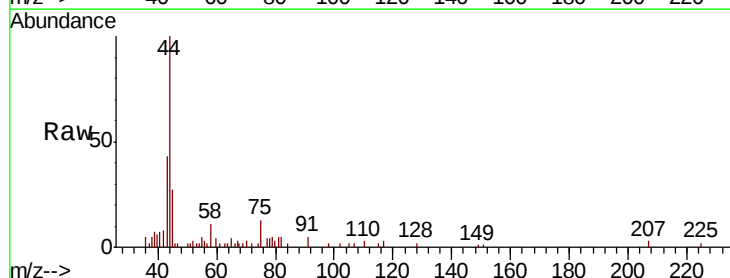
Acq: 30 Aug 2019 12:37

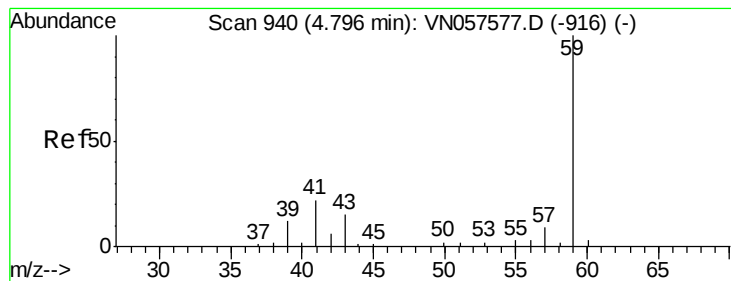
Tgt Ion: 58 Resp: 2616

Ion Ratio Lower Upper

58 100

43 294.9 252.8 379.2



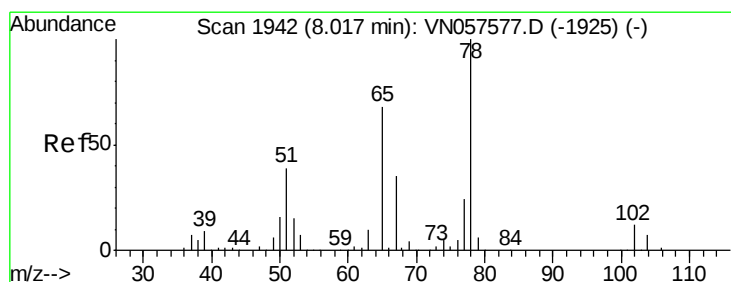
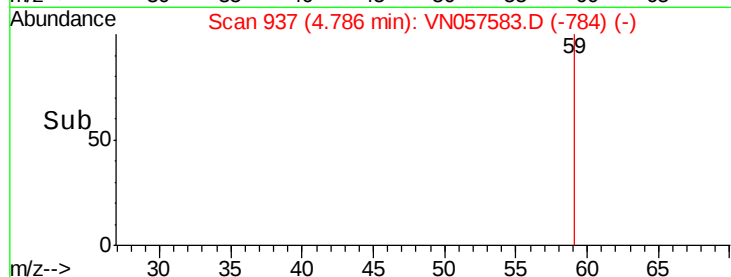
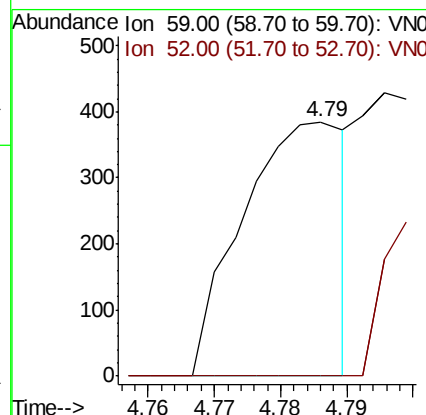
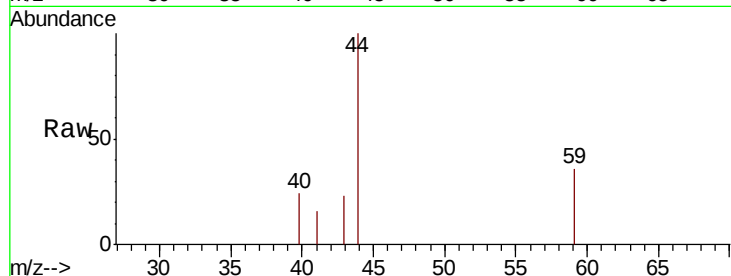


#23

tert-Butyl Alcohol
 Concen: 0.738 ug/l
 RT: 4.79 min Scan# 937
 Delta R.T. -0.01 min
 Lab File: VN057583.D
 Acq: 30 Aug 2019 12:37

Instrument :
 MSVOA_N
 ClientSampled :
 GW-1

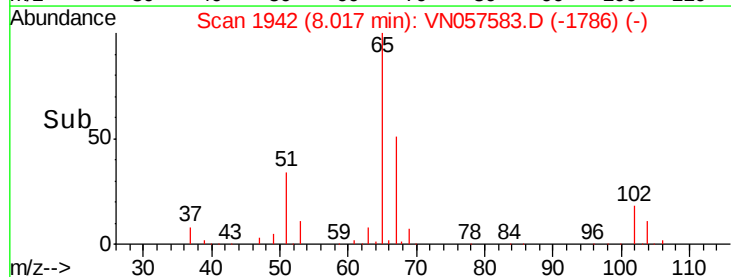
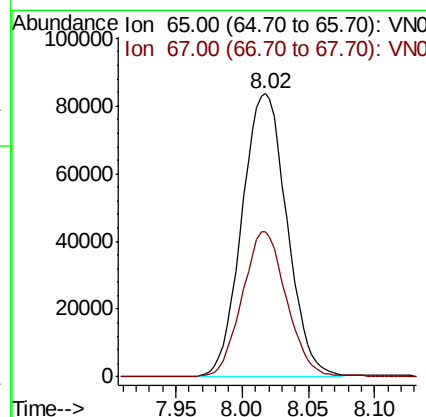
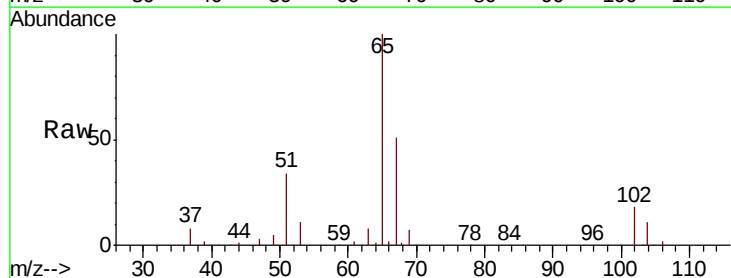
Tgt Ion: 59 Resp: 414
 Ion Ratio Lower Upper
 59 100
 52 27.5 0.1 0.1#

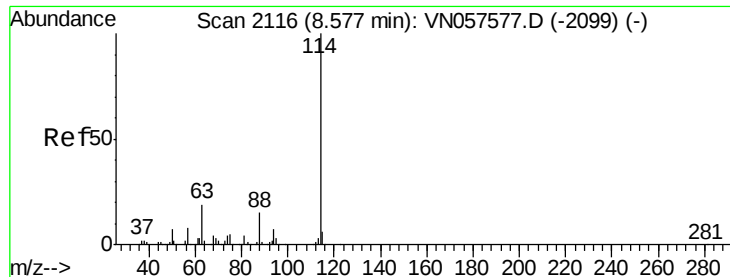


#27

1,2-Dichloroethane-d4
 Concen: 31.916 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.00 min
 Lab File: VN057583.D
 Acq: 30 Aug 2019 12:37

Tgt Ion: 65 Resp: 197910
 Ion Ratio Lower Upper
 65 100
 67 50.3 39.8 59.6

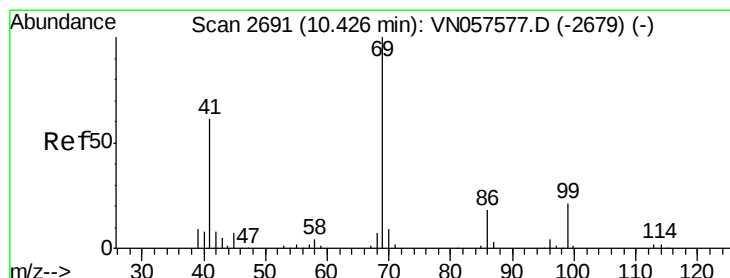
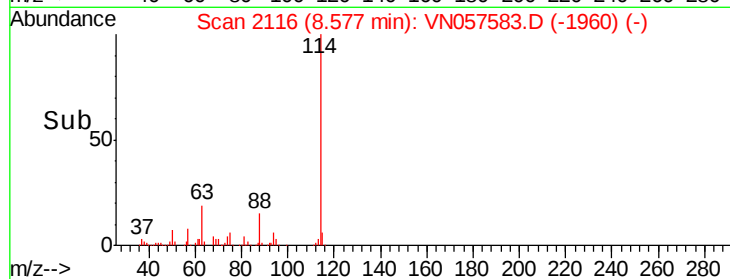
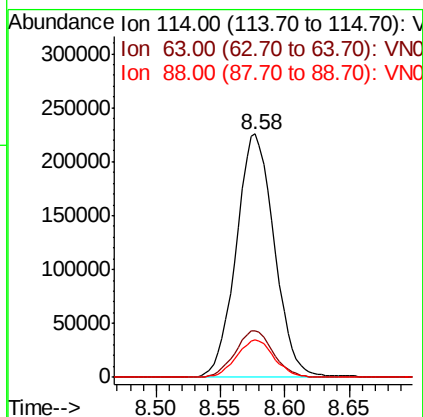
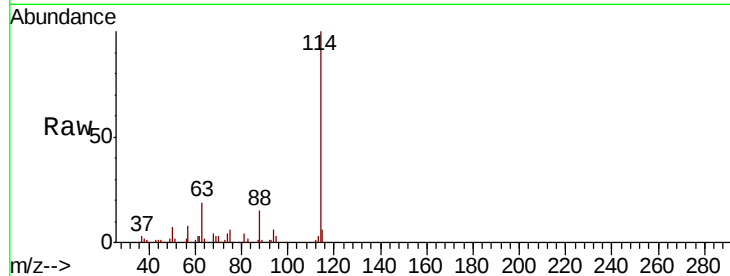




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057583.D
 Acq: 30 Aug 2019 12:37

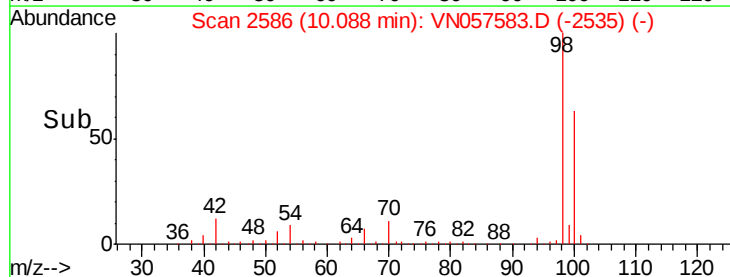
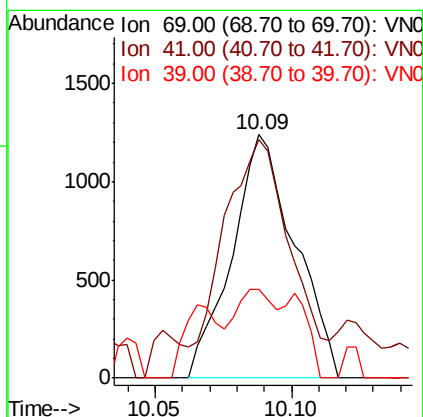
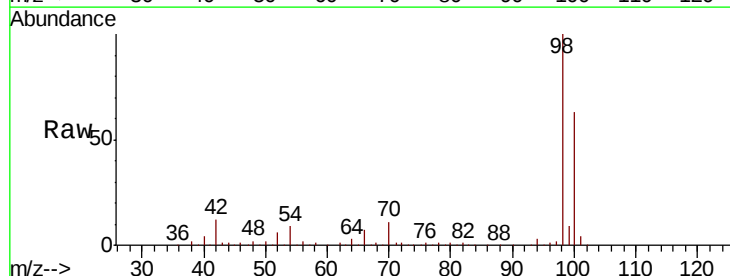
Instrument :
 MSVOA_N
 ClientSampleId :
 GW-1

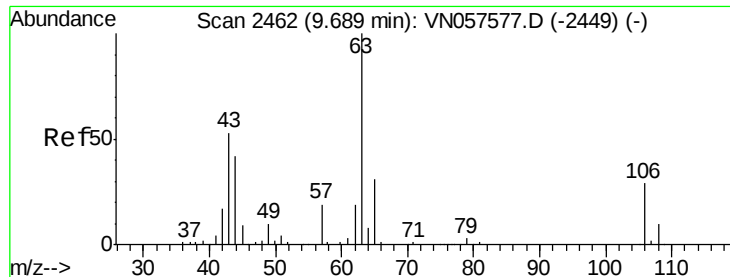
Tgt Ion:114 Resp: 464324
 Ion Ratio Lower Upper
 114 100
 63 19.3 15.4 23.0
 88 15.2 11.8 17.8



#51
 Ethyl methacrylate
 Concen: 0.300 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. -0.34 min
 Lab File: VN057583.D
 Acq: 30 Aug 2019 12:37

Tgt Ion: 69 Resp: 1980
 Ion Ratio Lower Upper
 69 100
 41 85.2 30.6 92.0
 39 36.5 22.3 66.9

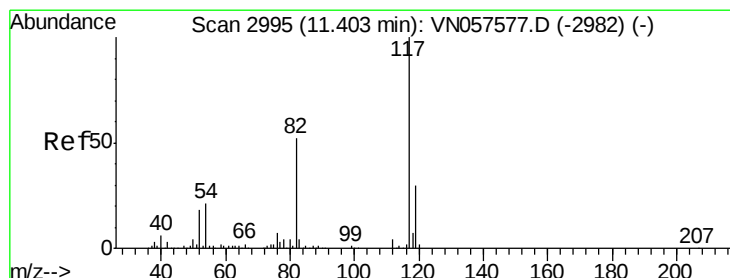
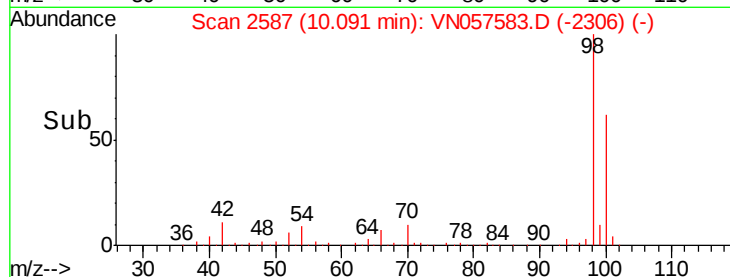
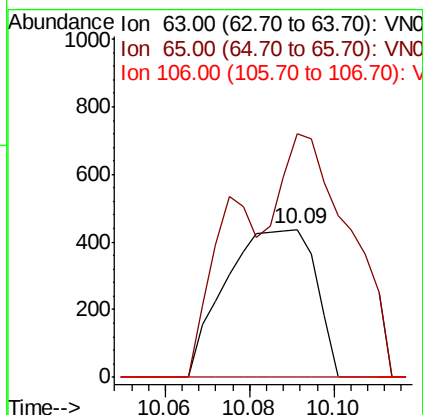
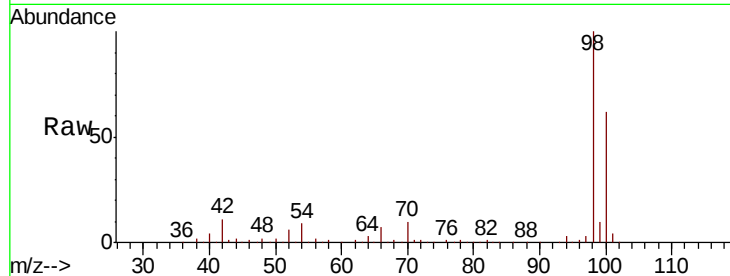




#55
2-Chloroethyl vinyl ether
Concen: 0.397 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.40 min
Lab File: VN057583.D
Acq: 30 Aug 2019 12:37

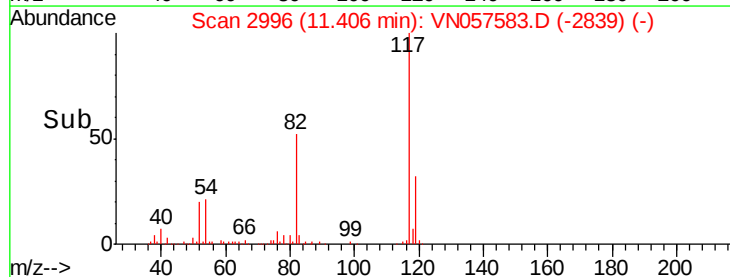
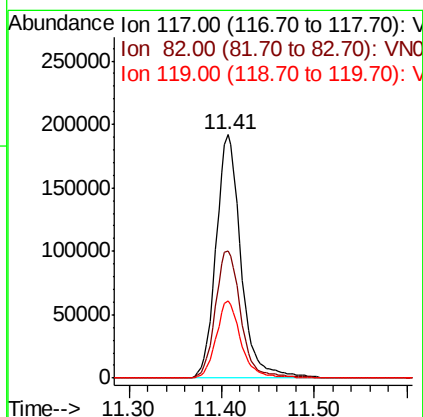
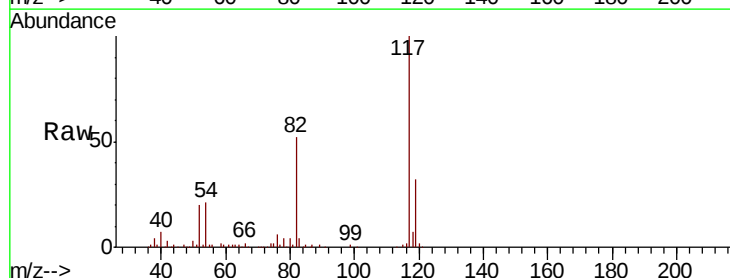
Instrument :
MSVOA_N
ClientSampled :
GW-1

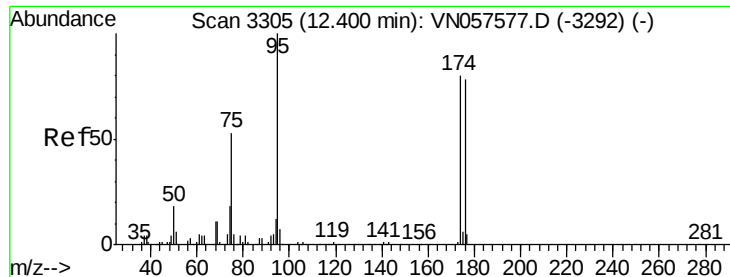
Tgt Ion: 63 Resp: 642
Ion Ratio Lower Upper
63 100
65 137.2 25.0 37.4#
106 0.0 23.7 35.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057583.D
Acq: 30 Aug 2019 12:37

Tgt Ion: 117 Resp: 357939
Ion Ratio Lower Upper
117 100
82 53.2 42.6 63.8
119 31.6 25.0 37.6





#60

4-Bromofluorobenzene

Concen: 21.681 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057583.D

Acq: 30 Aug 2019 12:37

Instrument :

MSVOA_N

ClientSampled :

GW-1

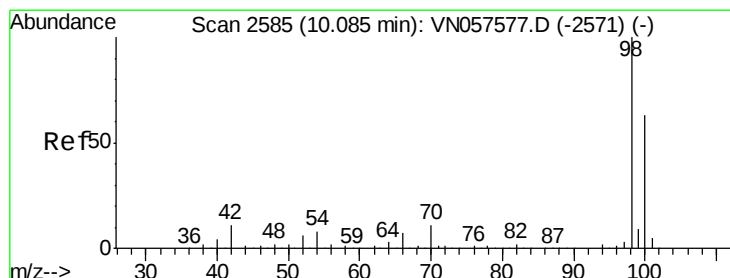
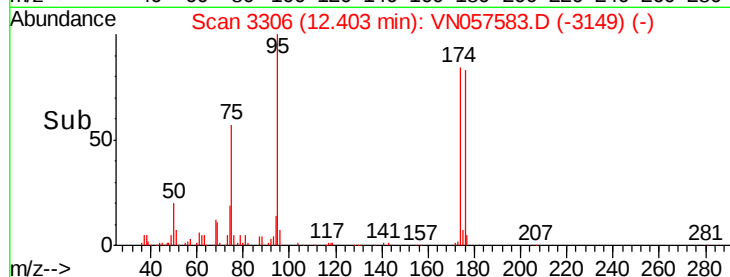
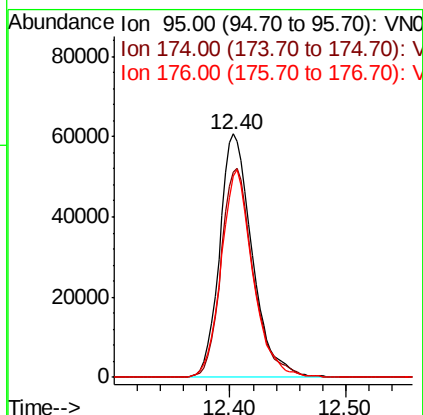
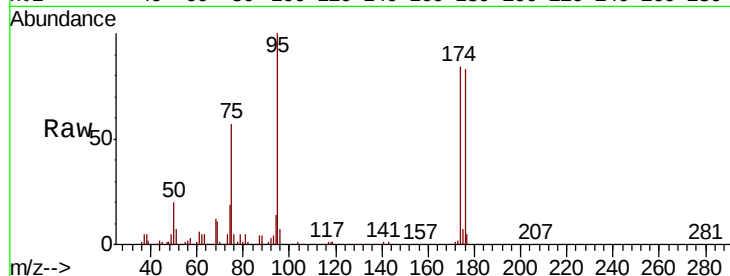
Tgt Ion: 95 Resp: 117980

Ion Ratio Lower Upper

95 100

174 85.2 66.2 99.2

176 82.6 65.0 97.6



#63

Toluene-d8

Concen: 33.331 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057583.D

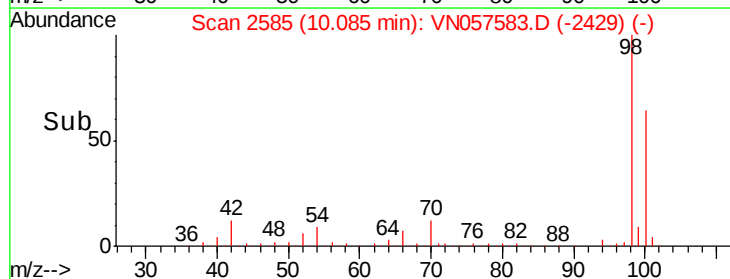
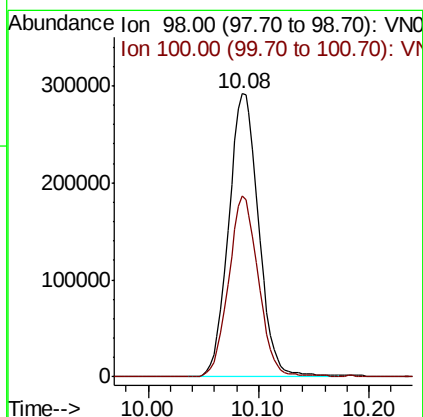
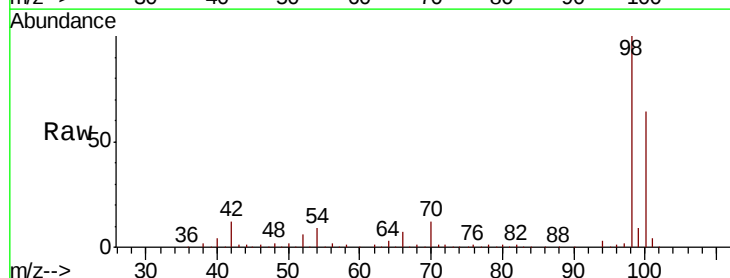
Acq: 30 Aug 2019 12:37

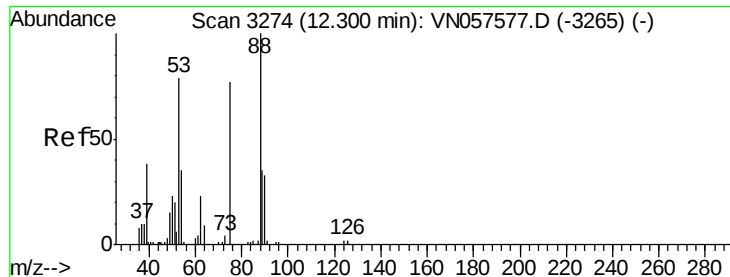
Tgt Ion: 98 Resp: 552512

Ion Ratio Lower Upper

98 100

100 62.8 50.2 75.2





#77

t-1,4-Dichloro-2-butene

Concen: 47.636 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057583.D

Acq: 30 Aug 2019 12:37

Instrument :

MSVOA_N

ClientSampleId :

GW-1

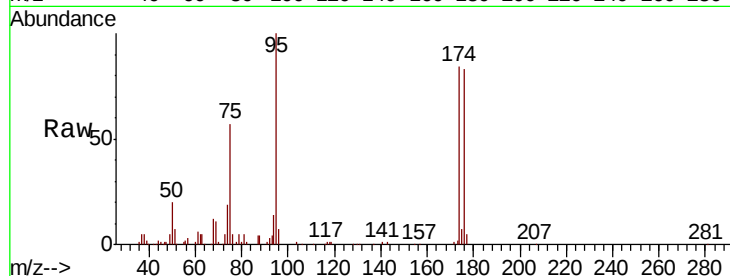
Tgt Ion: 75 Resp: 67031

Ion Ratio Lower Upper

75 100

53 0.0 52.8 158.4#

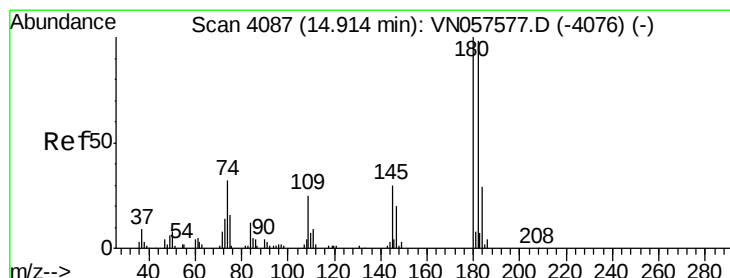
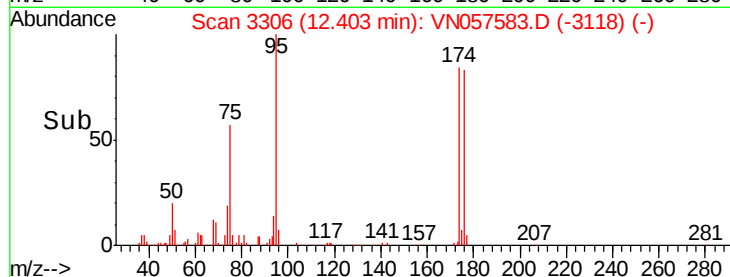
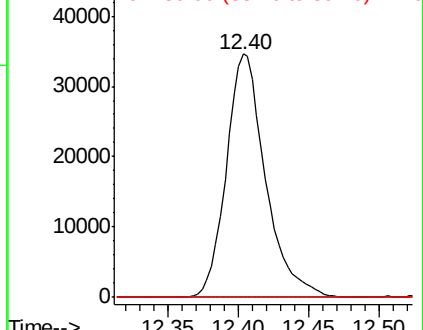
89 0.0 23.2 69.5#



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



#89

1,2,4-Trichlorobenzene

Concen: 0.742 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.39 min

Lab File: VN057583.D

Acq: 30 Aug 2019 12:37

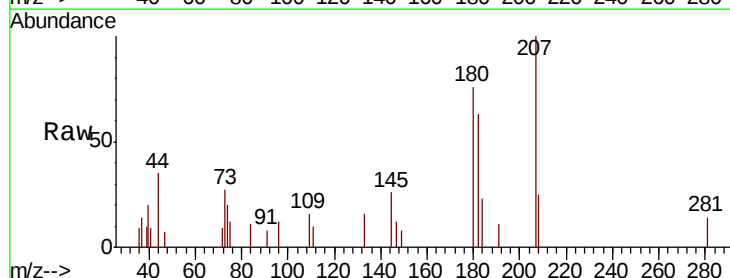
Tgt Ion: 180 Resp: 2139

Ion Ratio Lower Upper

180 100

182 101.8 76.6 115.0

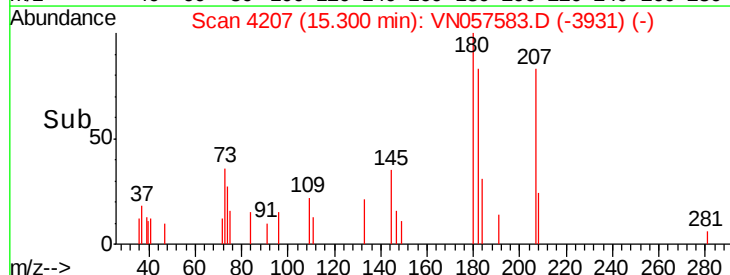
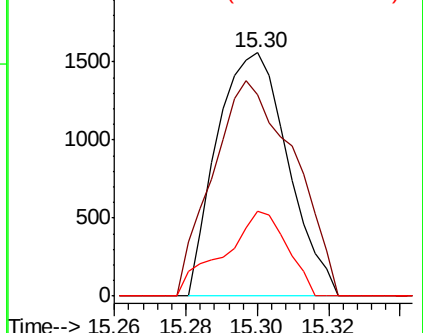
145 31.2 24.4 36.6

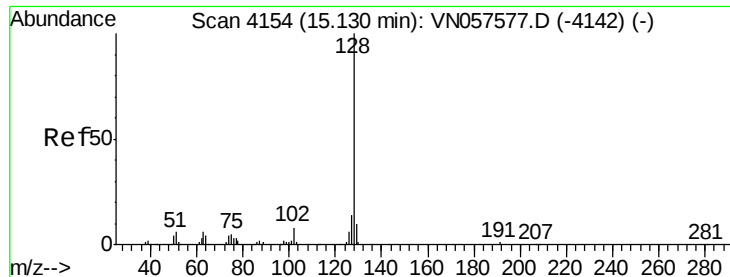


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 0.435 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057583.D

Acq: 30 Aug 2019 12:37

Instrument :

MSVOA_N

ClientSampleId :

GW-1

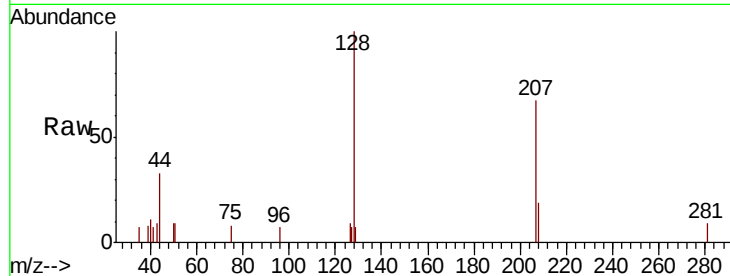
Tgt Ion:128 Resp: 3491

Ion Ratio Lower Upper

128 100

127 4.0 10.6 16.0#

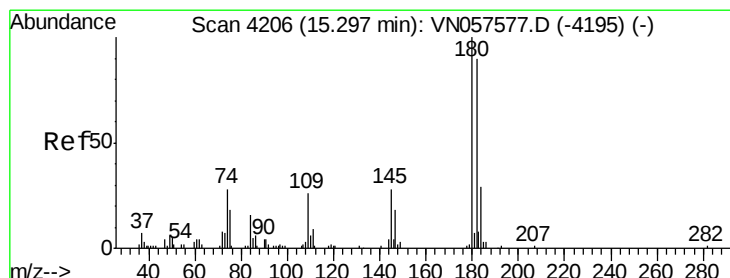
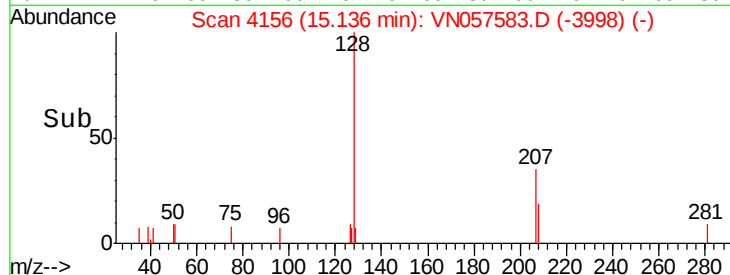
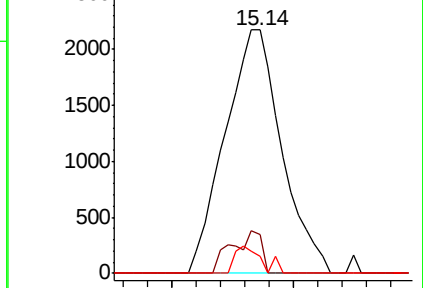
129 4.4 8.1 12.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.749 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057583.D

Acq: 30 Aug 2019 12:37

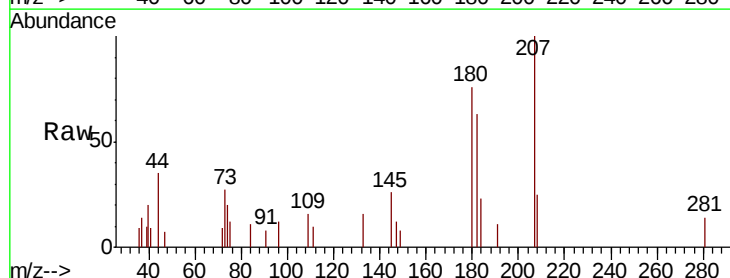
Tgt Ion:180 Resp: 2139

Ion Ratio Lower Upper

180 100

182 101.8 0.0 181.0

145 31.2 0.0 62.2



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

