

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052283.D
 Acq On : 13 Nov 2018 13:43
 Operator : MD\SY
 Sample : J5919-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 14 00:01:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	46136	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	263103	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	221599	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	110682	32.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.73%
60) 4-Bromofluorobenzene	12.40	95	88710	25.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	83.40%
63) Toluene-d8	10.09	98	319765	30.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.30%

Target Compounds

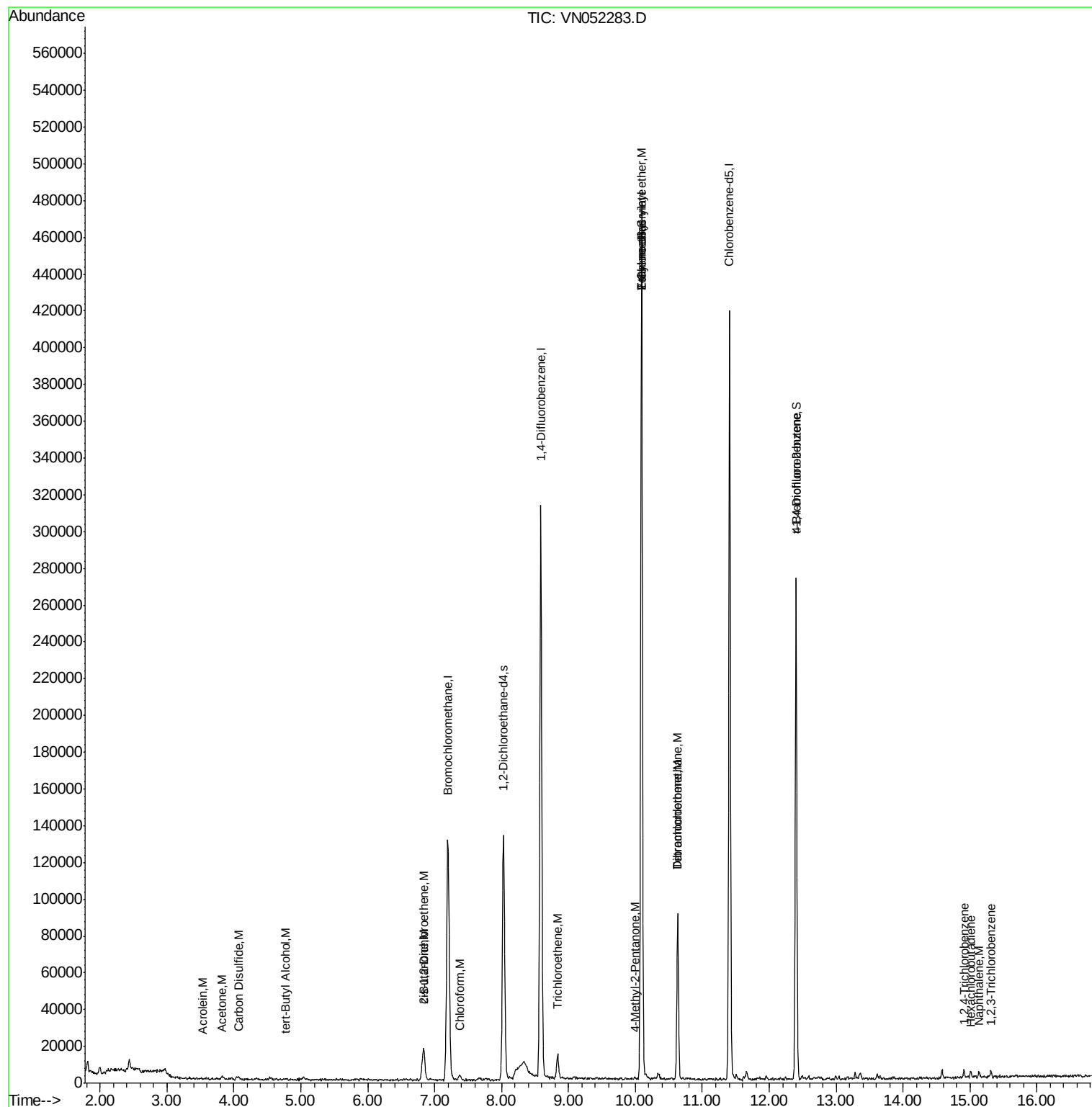
					Ovalue
13) Acrolein	3.53	56	60	0.263 ug/l #	39
15) Acetone	3.81	58	214	0.951 ug/l #	1
16) Carbon Disulfide	4.07	76	2082	0.276 ug/l #	83
22) cis-1,2-Dichloroethene	6.83	96	9394	2.878 ug/l #	53
23) tert-Butyl Alcohol	4.77	59	140	0.944 ug/l #	99
25) Chloroform	7.37	83	2302	0.417 ug/l	100
30) 2-Butanone	6.83	43	417	0.375 ug/l #	72
37) Trichloroethene	8.84	130	4043	1.321 ug/l	86
51) Ethyl methacrylate	10.09	69	1107	0.323 ug/l	76
53) Dibromochloromethane	10.63	129	18765	6.550 ug/l #	10
55) 2-Chloroethyl vinyl ether	10.09	63	560	0.298 ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	545	0.230 ug/l #	79
61) Tetrachloroethene	10.63	164	19639	8.149 ug/l	90
77) t-1,4-Dichloro-2-butene	12.40	75	49023	61.187 ug/l #	9
89) 1,2,4-Trichlorobenzene	14.91	180	1069	0.534 ug/l #	93
90) Hexachlorobutadiene	15.01	225	623	0.569 ug/l	59
91) Naphthalene	15.13	128	3082	0.668 ug/l #	77
92) 1,2,3-Trichlorobenzene	15.32	180	1074	0.616 ug/l	85

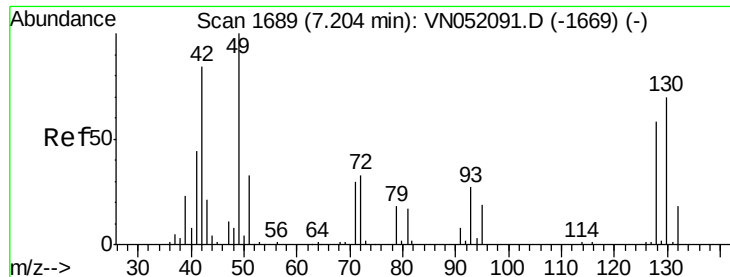
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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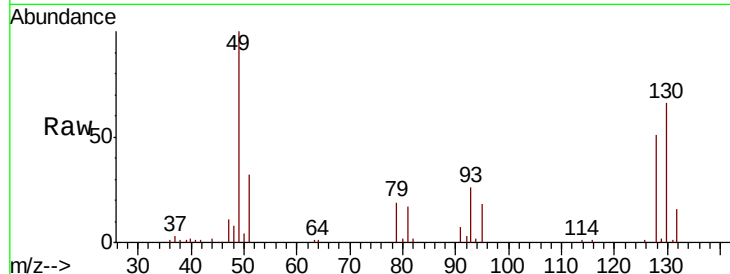




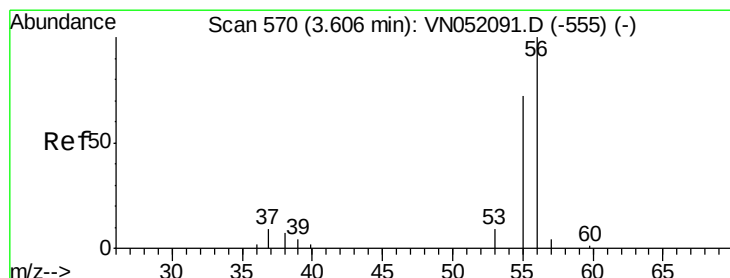
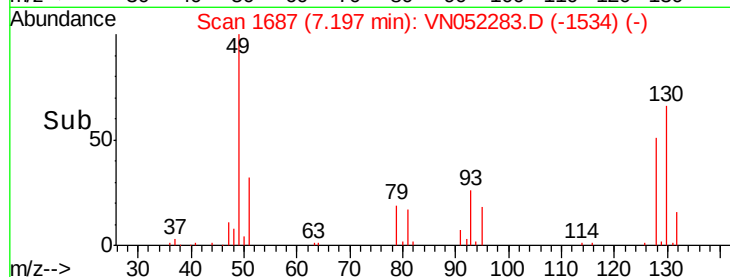
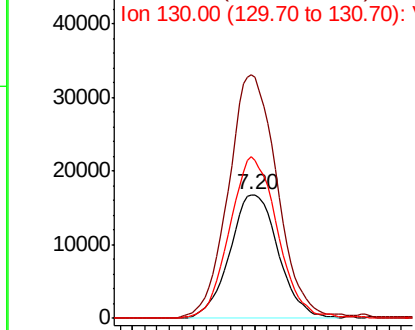
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VN052283.D
Acq: 13 Nov 2018 13:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:128 Resp: 46136
Ion Ratio Lower Upper
128 100
49 198.2 0.0 453.7
130 129.1 0.0 308.8

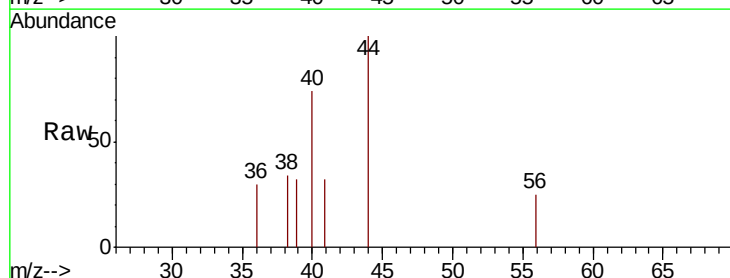


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

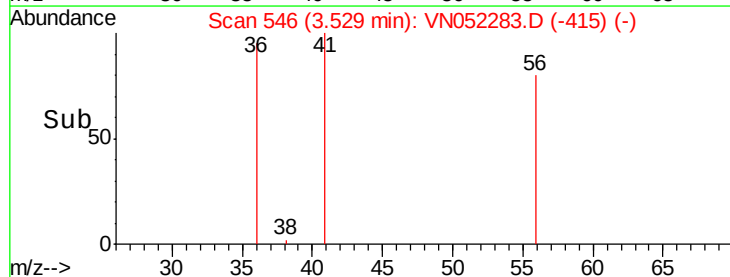
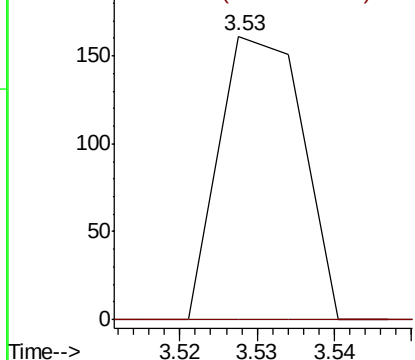


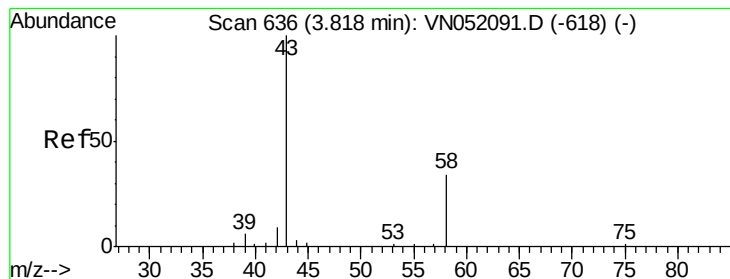
#13
Acrolein
Concen: 0.263 ug/l
RT: 3.53 min Scan# 546
Delta R.T. -0.08 min
Lab File: VN052283.D
Acq: 13 Nov 2018 13:43

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 120.0 56.2 84.2#



Abundance Ion 56.00 (55.70 to 56.70): VN
Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 0.951 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN052283.D

Acq: 13 Nov 2018 13:43

Instrument :

MSVOA_N

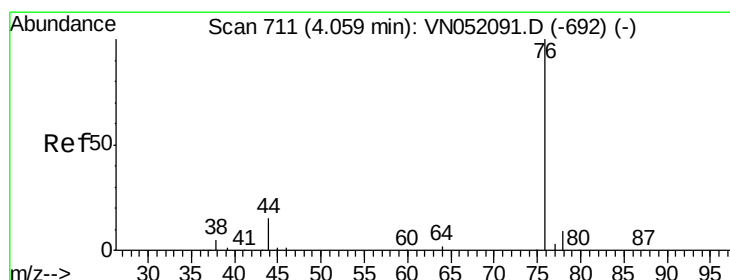
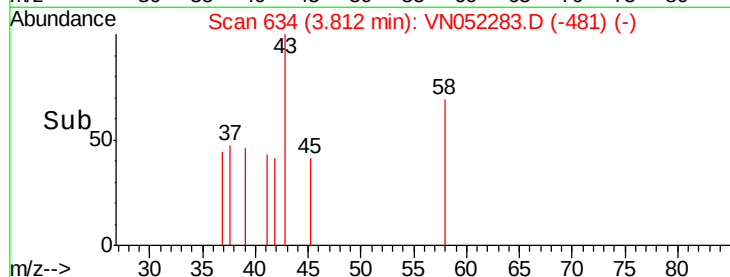
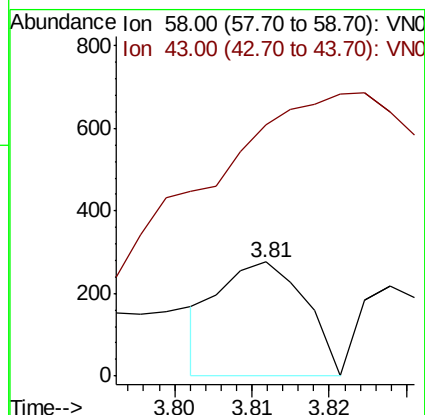
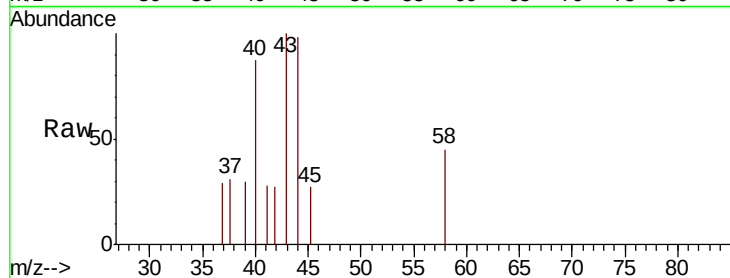
ClientSampled :

Tot Ion: 58 Resp: 214

Ion Ratio Lower Upper

58 100

43 58.3 234.7 352.1#



#16

Carbon Disulfide

Concen: 0.276 ug/l

RT: 4.07 min Scan# 713

Delta R.T. 0.01 min

Lab File: VN052283.D

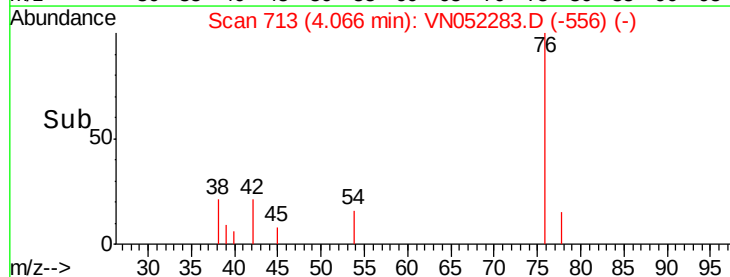
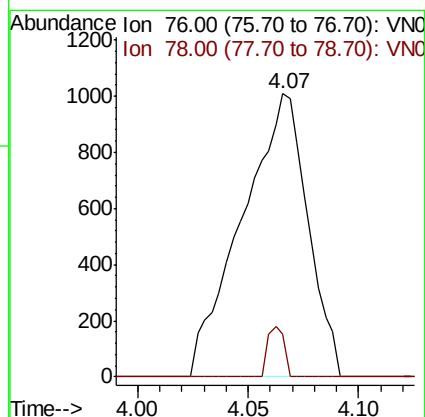
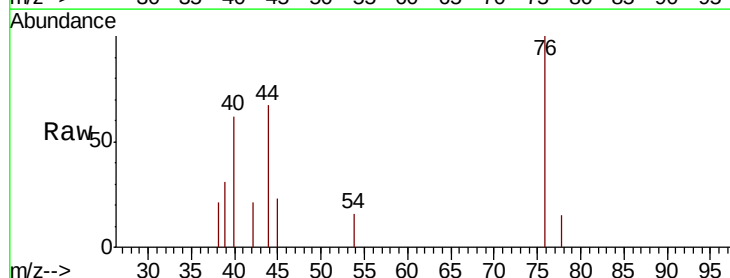
Acq: 13 Nov 2018 13:43

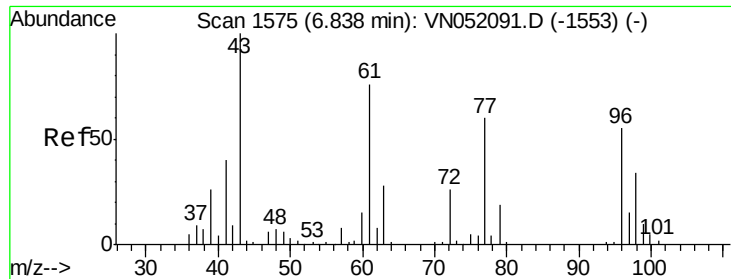
Tgt Ion: 76 Resp: 2082

Ion Ratio Lower Upper

76 100

78 15.1 7.0 10.6#





#22

cis-1,2-Dichloroethene

Concen: 2.878 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VN052283.D

Acq: 13 Nov 2018 13:43

Instrument :
MSVOA_N
ClientSampled :

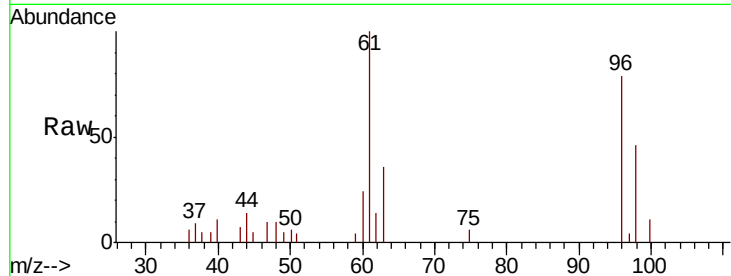
Tot Ion: 96 Resp: 9394

Ion Ratio Lower Upper

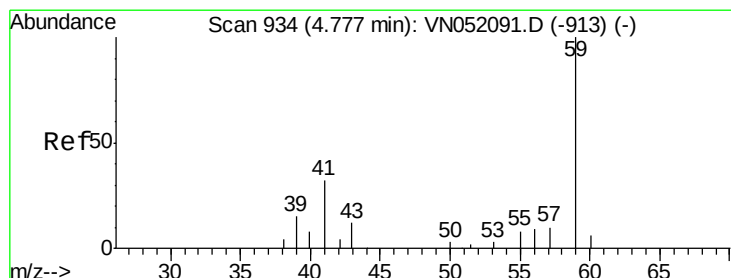
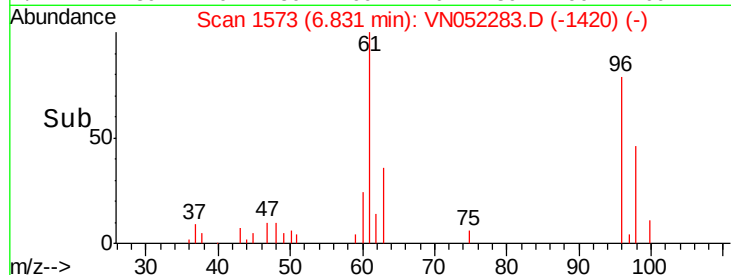
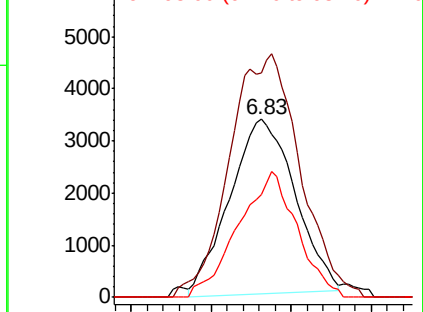
96 100

61 63.0 117.6 176.4#

98 64.8 51.0 76.4



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: 0.944 ug/l

RT: 4.77 min Scan# 931

Delta R.T. -0.01 min

Lab File: VN052283.D

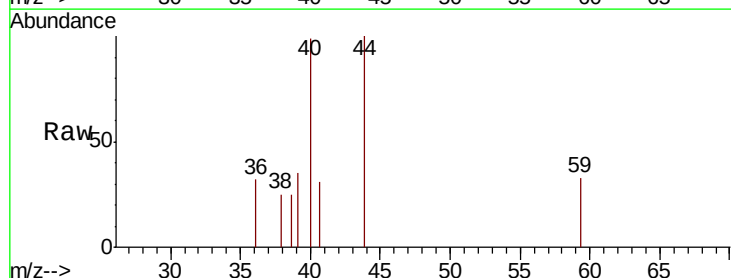
Acq: 13 Nov 2018 13:43

Tgt Ion: 59 Resp: 140

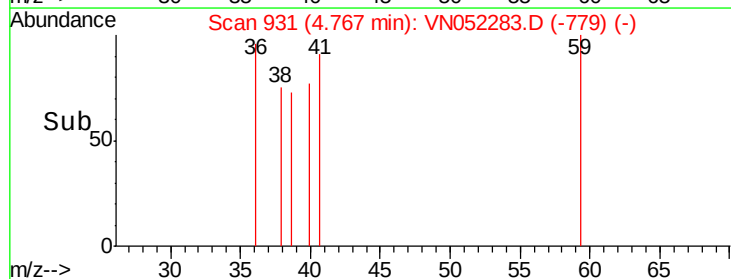
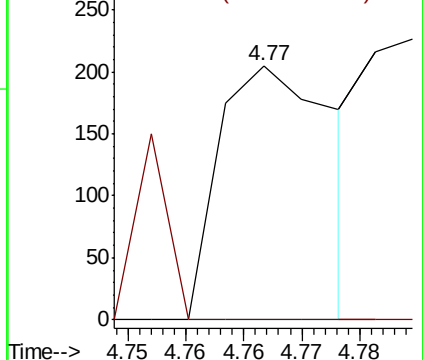
Ion Ratio Lower Upper

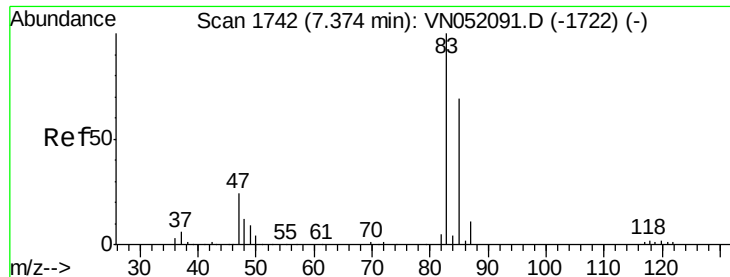
59 100

52 0.0 0.3 0.5#



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

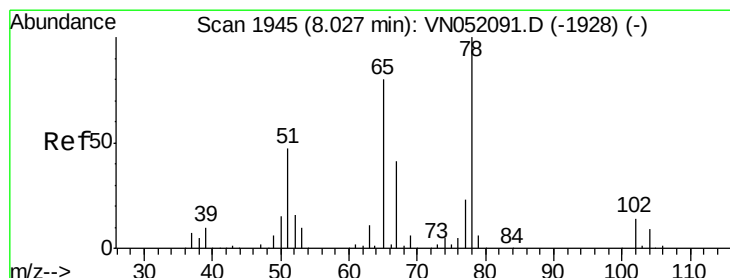
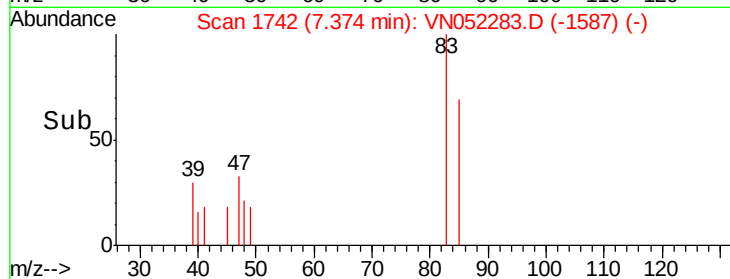
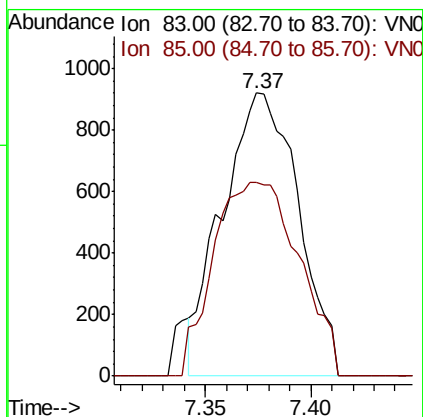
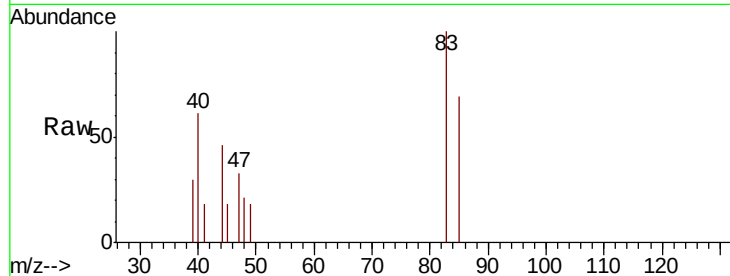




#25
Chloroform
Concen: 0.417 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052283.D
Acq: 13 Nov 2018 13:43

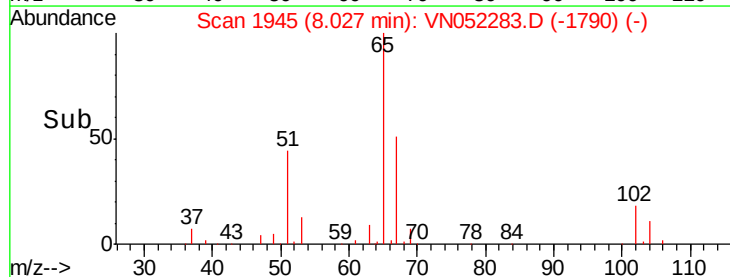
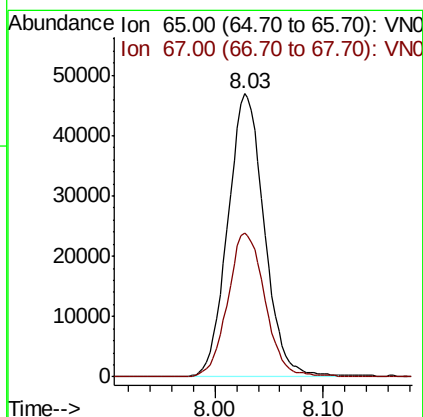
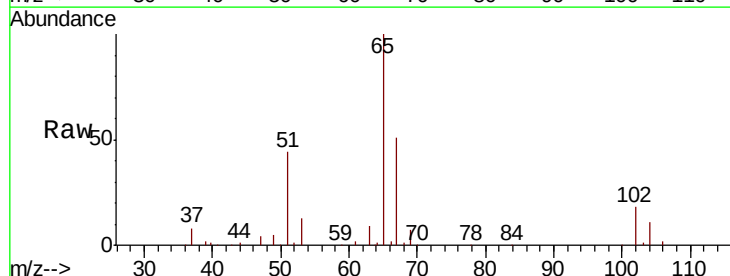
Instrument :
MSVOA_N
ClientSampled :

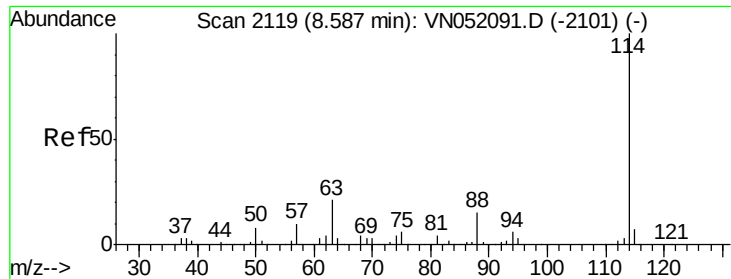
Tot Ion: 83 Resp: 2302
Ion Ratio Lower Upper
83 100
85 68.5 54.9 82.3



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052283.D
Acq: 13 Nov 2018 13:43

Tgt Ion: 65 Resp: 110682
Ion Ratio Lower Upper
65 100
67 51.7 42.6 64.0

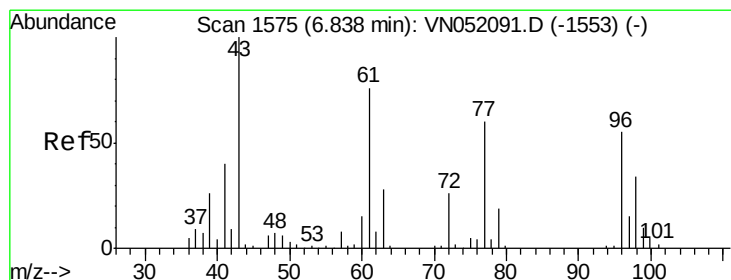
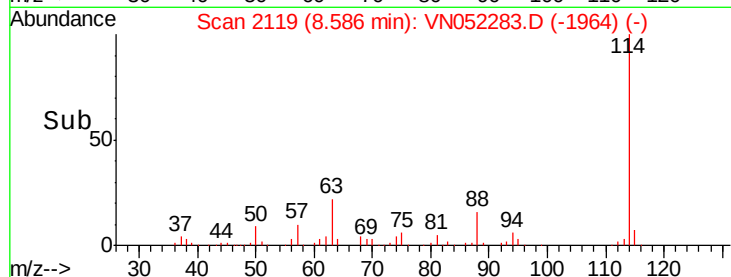
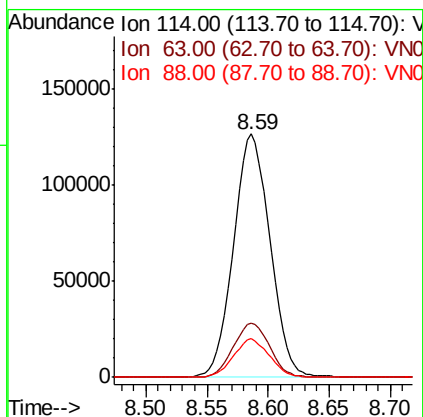
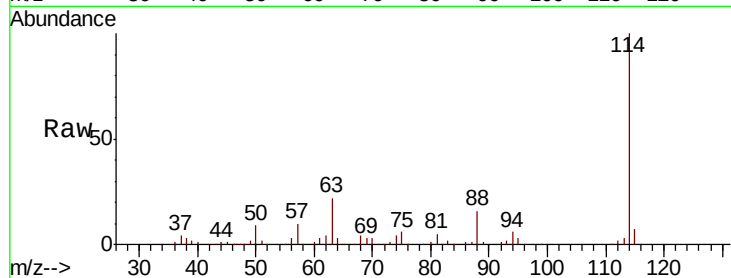




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052283.D
 Acq: 13 Nov 2018 13:43

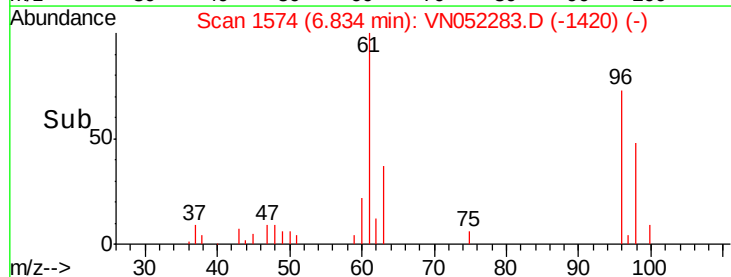
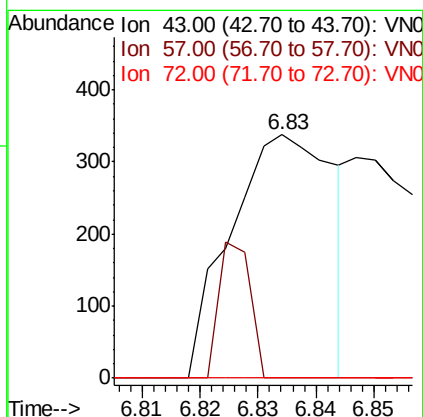
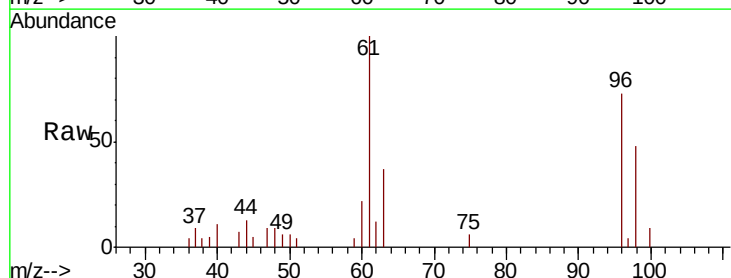
Instrument :
 MSVOA_N
 ClientSampleId :

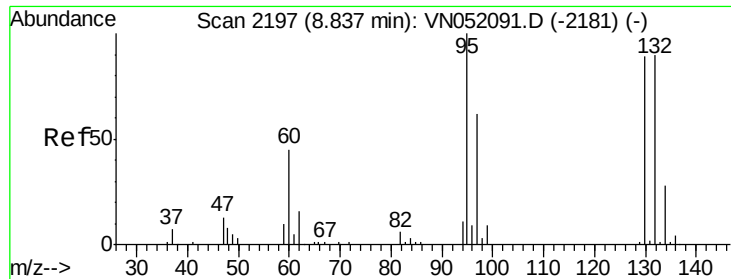
Tot Ion:114 Resp: 263103
 Ion Ratio Lower Upper
 114 100
 63 22.2 17.5 26.3
 88 15.7 12.6 18.8



#30
 2-Butanone
 Concen: 0.375 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN052283.D
 Acq: 13 Nov 2018 13:43

Tgt Ion: 43 Resp: 417
 Ion Ratio Lower Upper
 43 100
 57 16.8 6.6 9.8#
 72 0.0 9.2 13.8#

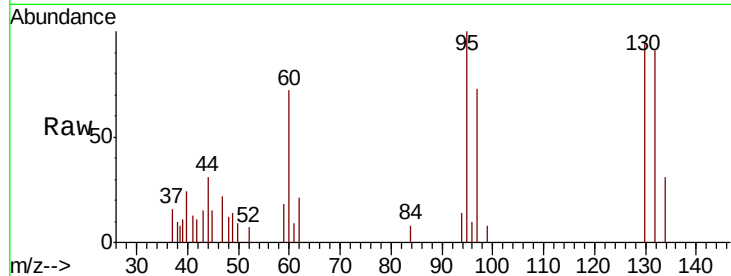




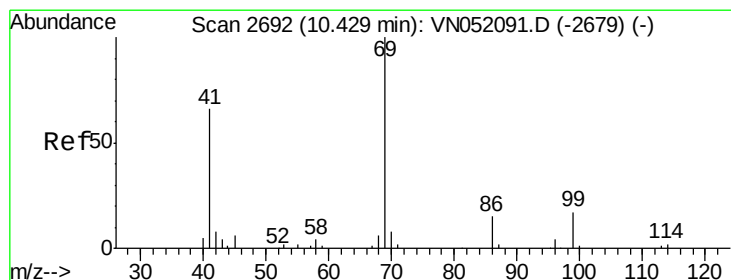
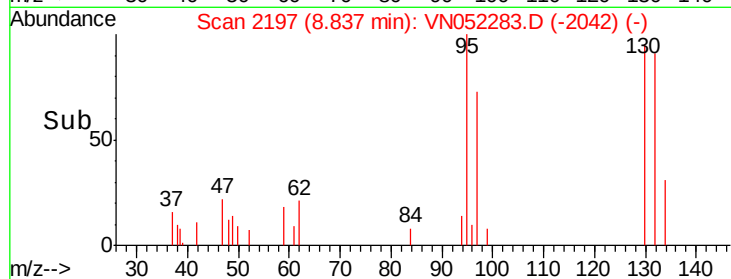
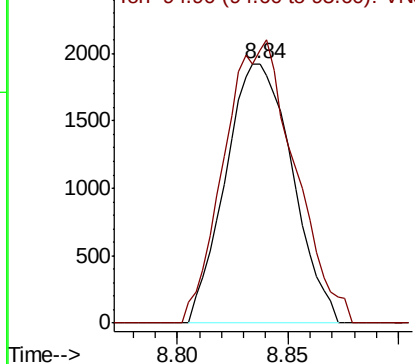
#37
 Trichloroethene
 Concen: 1.321 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VN052283.D
 Acq: 13 Nov 2018 13:43

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:130 Resp: 4043
 Ion Ratio Lower Upper
 130 100
 95 97.1 89.9 134.9

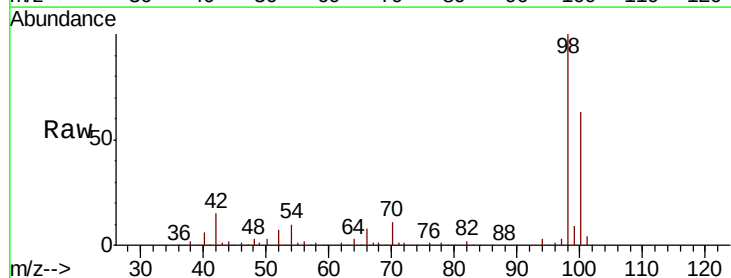


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VNO

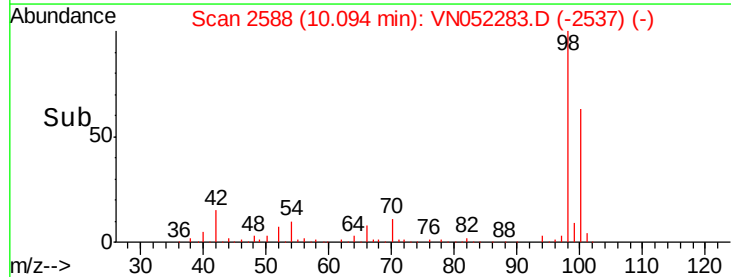
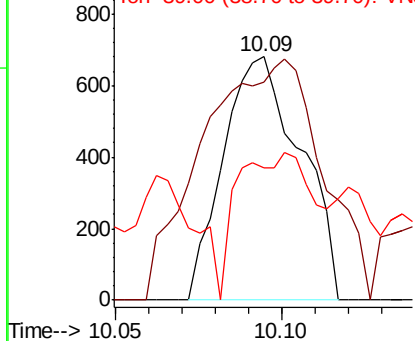


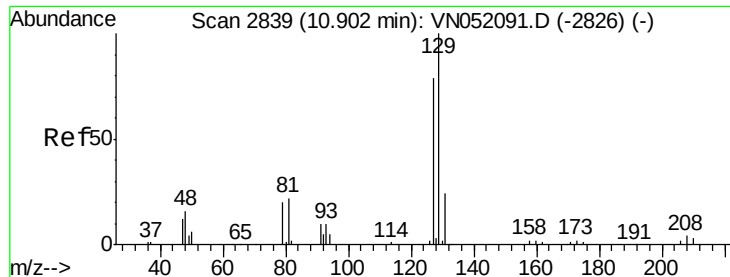
#51
 Ethyl methacrylate
 Concen: 0.323 ug/l
 RT: 10.09 min Scan# 2588
 Delta R.T. -0.33 min
 Lab File: VN052283.D
 Acq: 13 Nov 2018 13:43

Tgt Ion: 69 Resp: 1107
 Ion Ratio Lower Upper
 69 100
 41 48.5 33.0 99.0
 39 25.0 20.7 62.1



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





#53

Dibromochloromethane

Concen: 6.550 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN052283.D

Acq: 13 Nov 2018 13:43

Instrument :

MSVOA_N

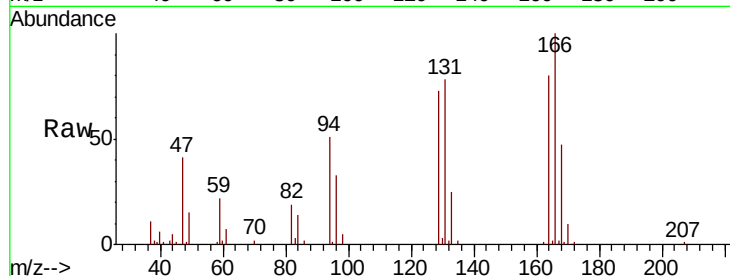
ClientSampled :

Tot Ion:129 Resp: 18765

Ion Ratio Lower Upper

129 100

127 0.0 39.2 117.6#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10000

8000

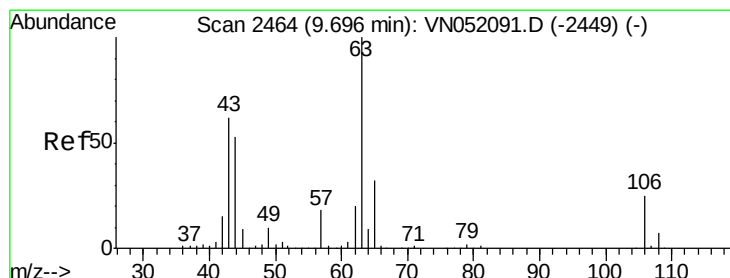
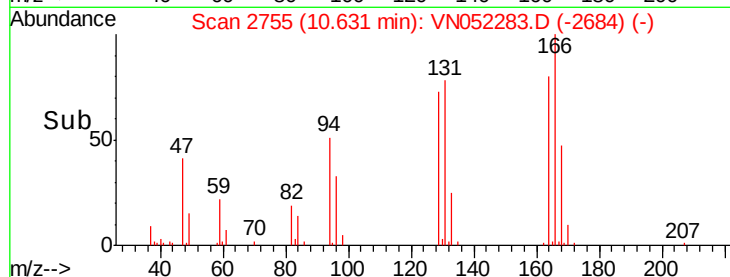
6000

4000

2000

0

Time--> 10.60 10.65



#55

2-Chloroethyl vinyl ether

Concen: 0.298 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.39 min

Lab File: VN052283.D

Acq: 13 Nov 2018 13:43

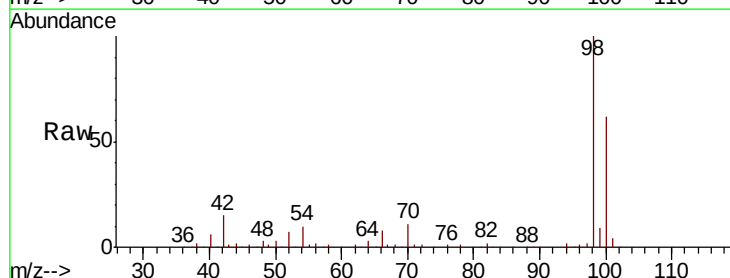
Tgt Ion: 63 Resp: 560

Ion Ratio Lower Upper

63 100

65 194.5 25.5 38.3#

106 0.0 20.4 30.6#



Abundance Ion 63.00 (62.70 to 63.70): V

Ion 65.00 (64.70 to 65.70): V

Ion 106.00 (105.70 to 106.70): V

800

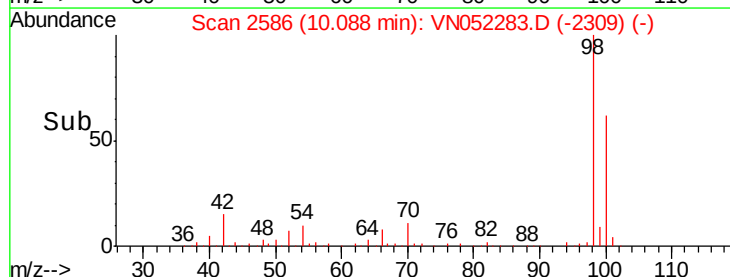
600

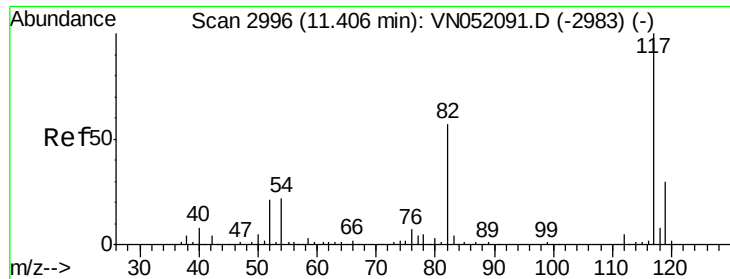
400

200

0

Time--> 10.06 10.08 10.10

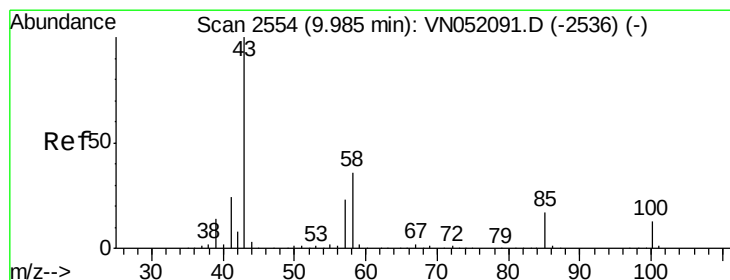
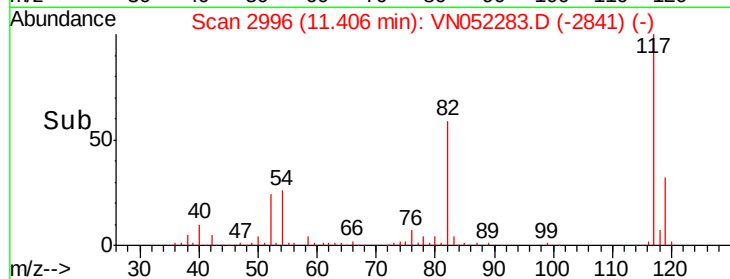
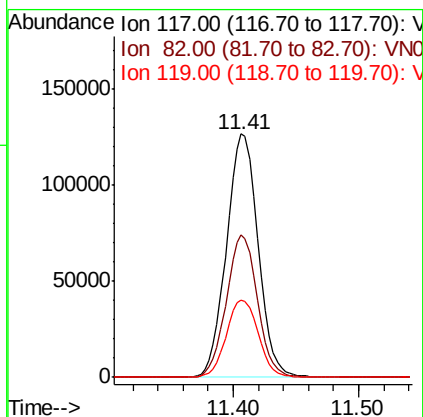
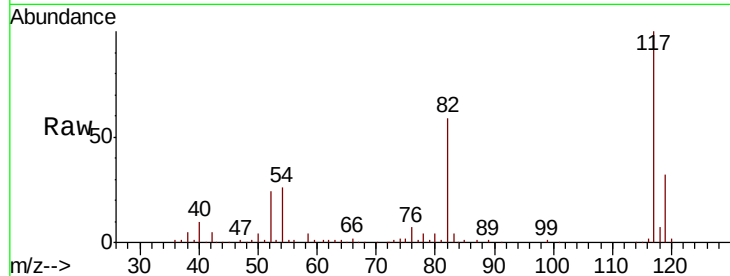




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052283.D
Acq: 13 Nov 2018 13:43

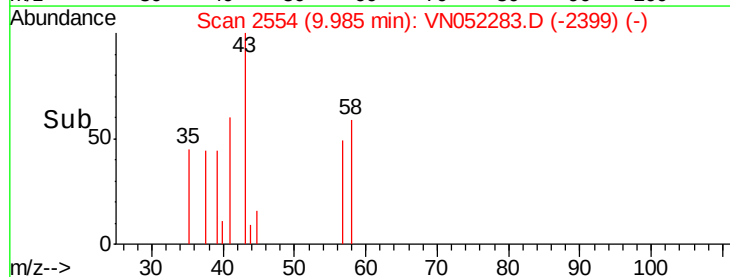
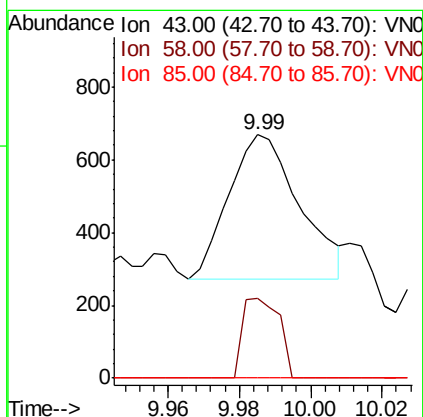
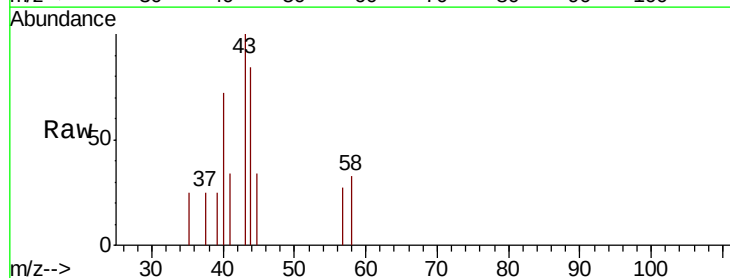
Instrument :
MSVOA_N
ClientSampled :

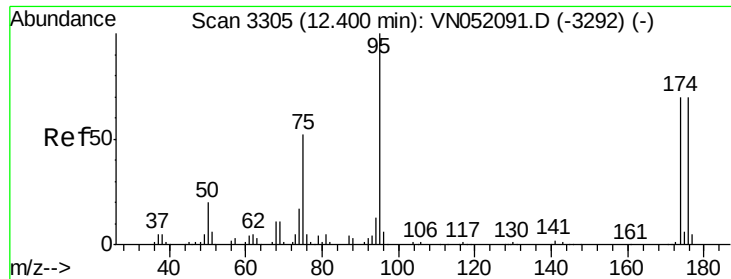
Tot Ion:117 Resp: 221599
Ion Ratio Lower Upper
117 100
82 57.5 45.0 67.6
119 32.3 24.2 36.4



#58
4-Methyl-2-Pentanone
Concen: 0.230 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN052283.D
Acq: 13 Nov 2018 13:43

Tgt Ion: 43 Resp: 545
Ion Ratio Lower Upper
43 100
58 28.6 29.0 43.6#
85 0.0 13.4 20.2#

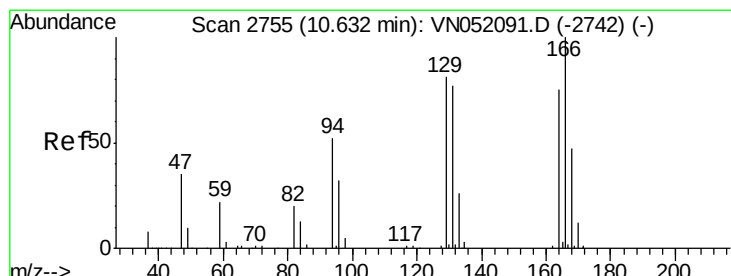
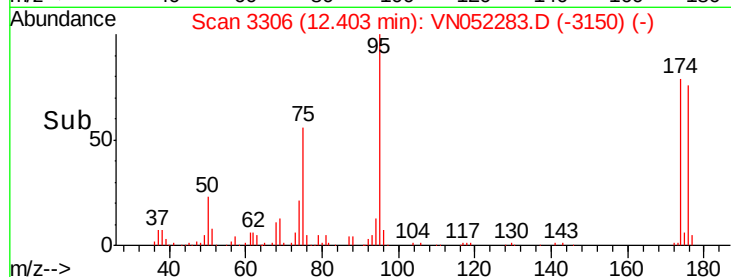
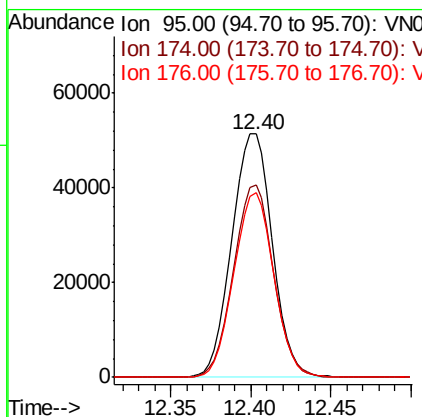
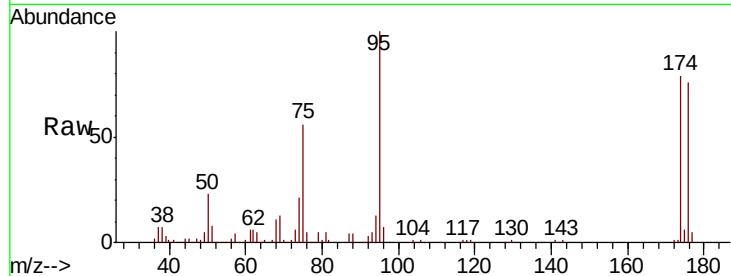




#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052283.D
Acq: 13 Nov 2018 13:43

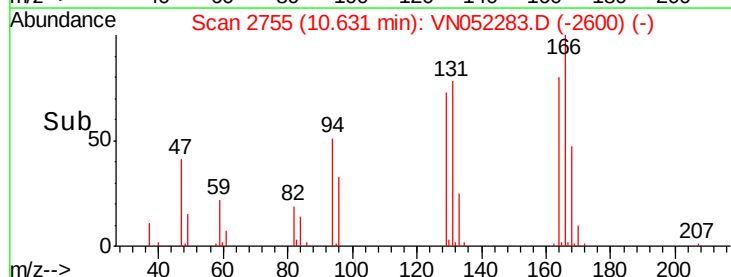
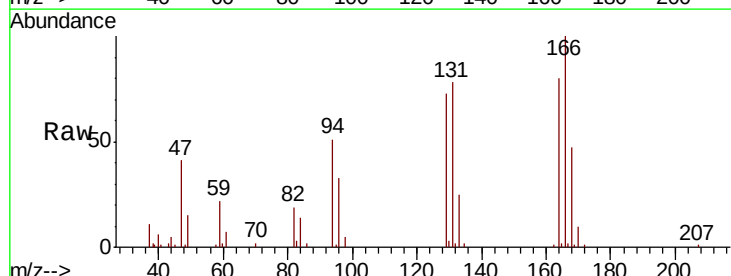
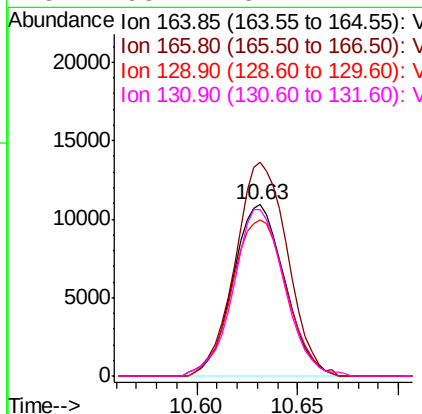
Instrument :
MSVOA_N
ClientSampleId :

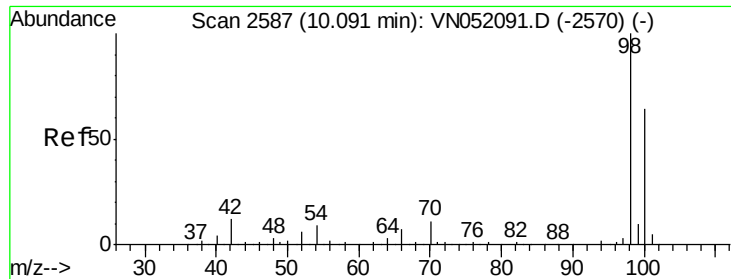
Tot Ion: 95 Resp: 88710
Ion Ratio Lower Upper
95 100
174 77.8 55.0 82.6
176 74.8 54.2 81.4



#61
Tetrachloroethene
Concen: 8.149 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052283.D
Acq: 13 Nov 2018 13:43

Tgt Ion:164 Resp: 19639
Ion Ratio Lower Upper
164 100
166 124.6 106.4 159.6
129 91.3 87.0 130.4
131 95.4 81.4 122.2





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052283.D

Acq: 13 Nov 2018 13:43

Instrument :

MSVOA_N

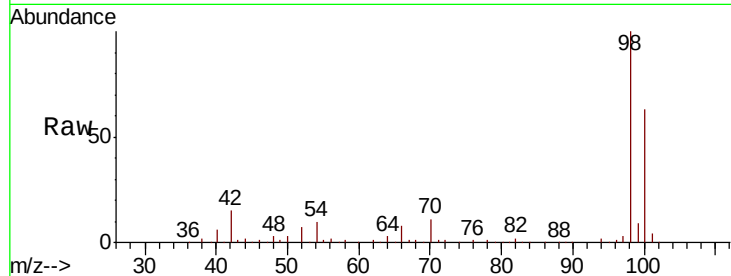
ClientSampleId :

Tot Ion: 98 Resp: 319765

Ion Ratio Lower Upper

98 100

100 62.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN052091.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052091.D (-2570) (-)

10.09

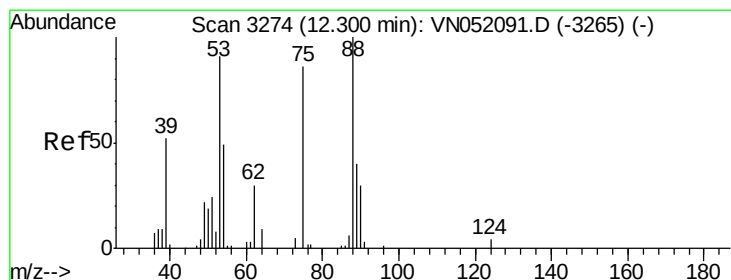
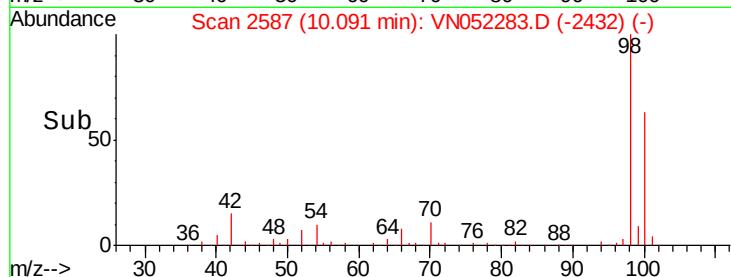
150000

100000

50000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 61.187 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052283.D

Acq: 13 Nov 2018 13:43

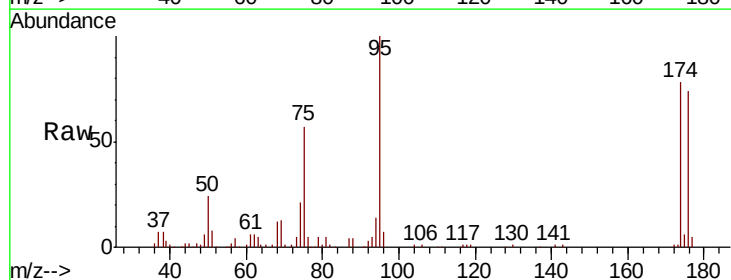
Tgt Ion: 75 Resp: 49023

Ion Ratio Lower Upper

75 100

53 0.0 50.7 152.1#

89 0.0 23.8 71.5#



Abundance Ion 75.00 (74.70 to 75.70): VN052091.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN052091.D (-3265) (-)

Ion 89.00 (88.70 to 89.70): VN052091.D (-3265) (-)

12.40

40000

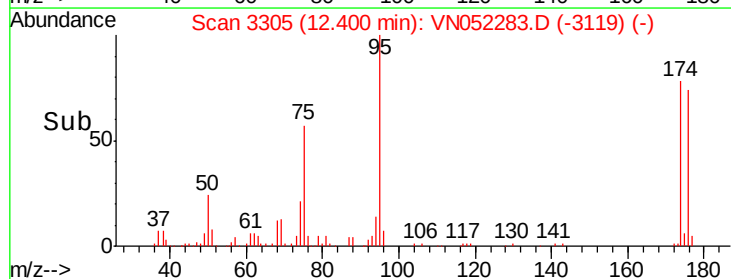
30000

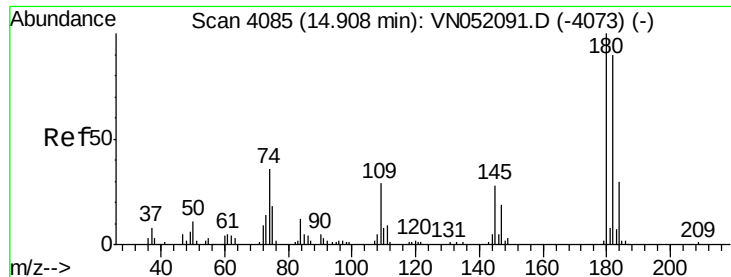
20000

10000

0

Time-->

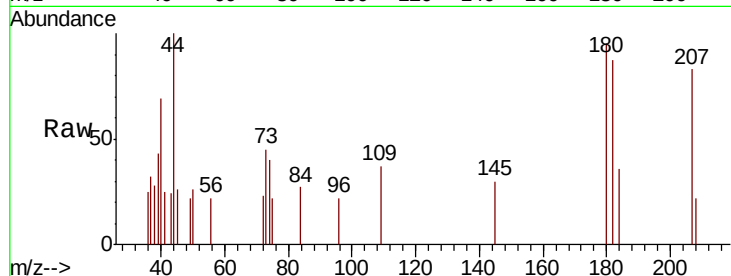




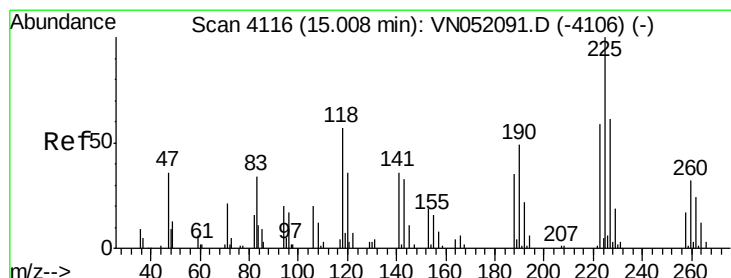
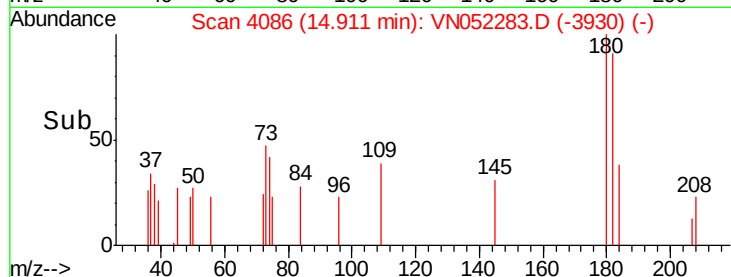
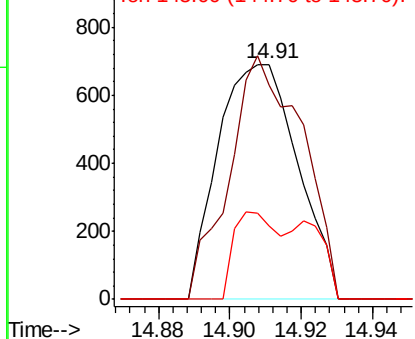
#89
 1,2,4-Trichlorobenzene
 Concen: 0.534 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052283.D
 Acq: 13 Nov 2018 13:43

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1069
 Ion Ratio Lower Upper
 180 100
 182 95.0 74.0 111.0
 145 20.2 24.6 36.8#

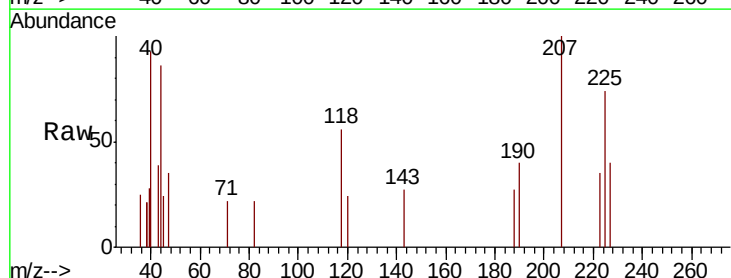


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

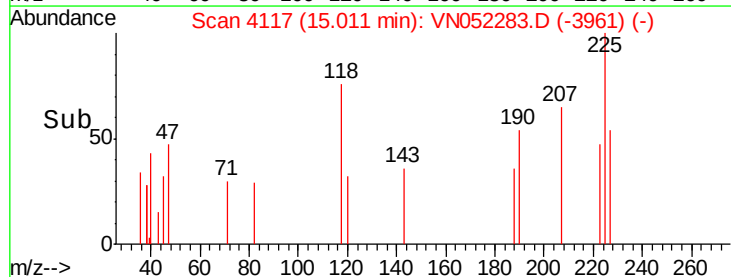
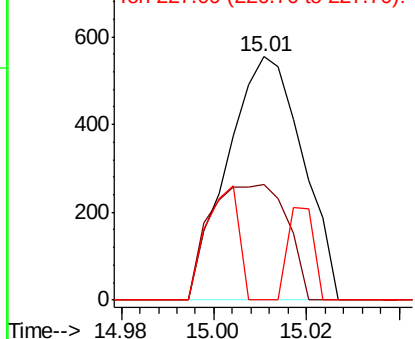


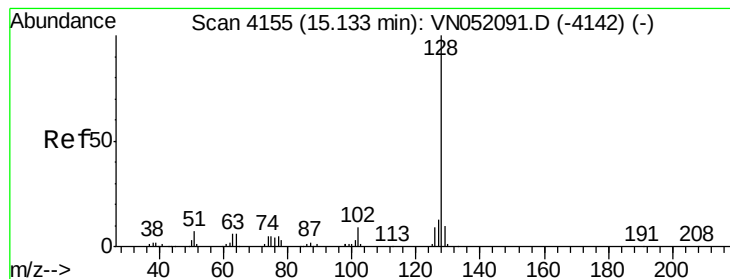
#90
 Hexachlorobutadiene
 Concen: 0.569 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052283.D
 Acq: 13 Nov 2018 13:43

Tgt Ion:225 Resp: 623
 Ion Ratio Lower Upper
 225 100
 223 48.5 0.0 121.2
 227 13.0 0.0 127.2



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 0.668 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052283.D

Acq: 13 Nov 2018 13:43

Instrument :

MSVOA_N

ClientSampleId :

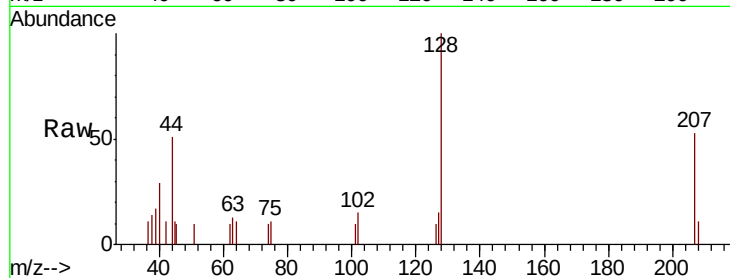
Tot Ion:128 Resp: 3082

Ion Ratio Lower Upper

128 100

127 5.5 10.4 15.6#

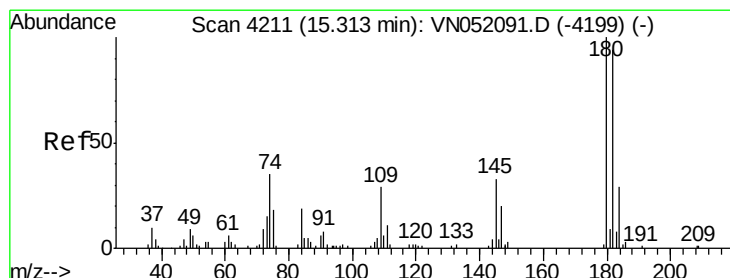
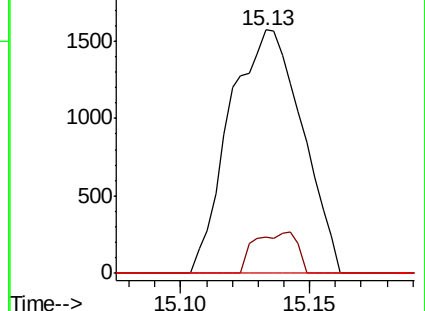
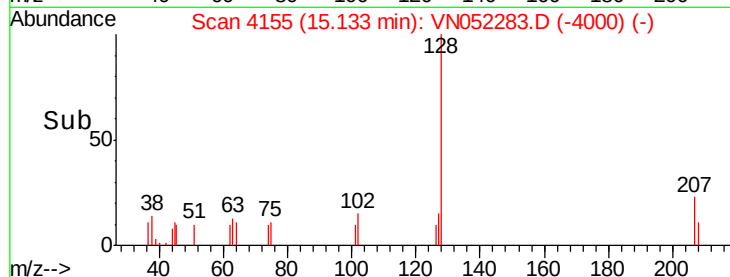
129 0.0 8.3 12.5#



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: 0.616 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052283.D

Acq: 13 Nov 2018 13:43

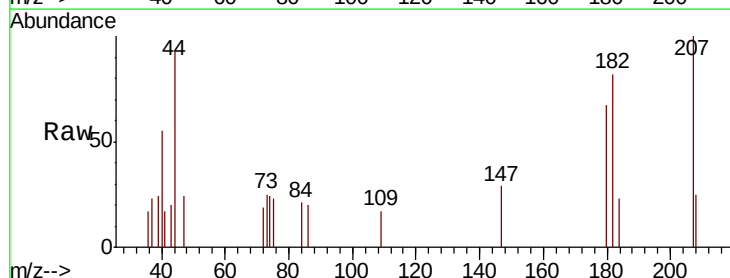
Tgt Ion:180 Resp: 1074

Ion Ratio Lower Upper

180 100

182 101.9 0.0 186.6

145 15.6 0.0 66.6



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

