

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053019\
 Data File : VN055903.D
 Acq On : 30 May 2019 16:39
 Operator : JC/SP
 Sample : K3112-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 31 04:50:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	52228	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	284682	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	227536	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	107223	31.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.70%
60) 4-Bromofluorobenzene	12.40	95	81403	23.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.67%
63) Toluene-d8	10.09	98	326167	31.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.57%

Target Compounds

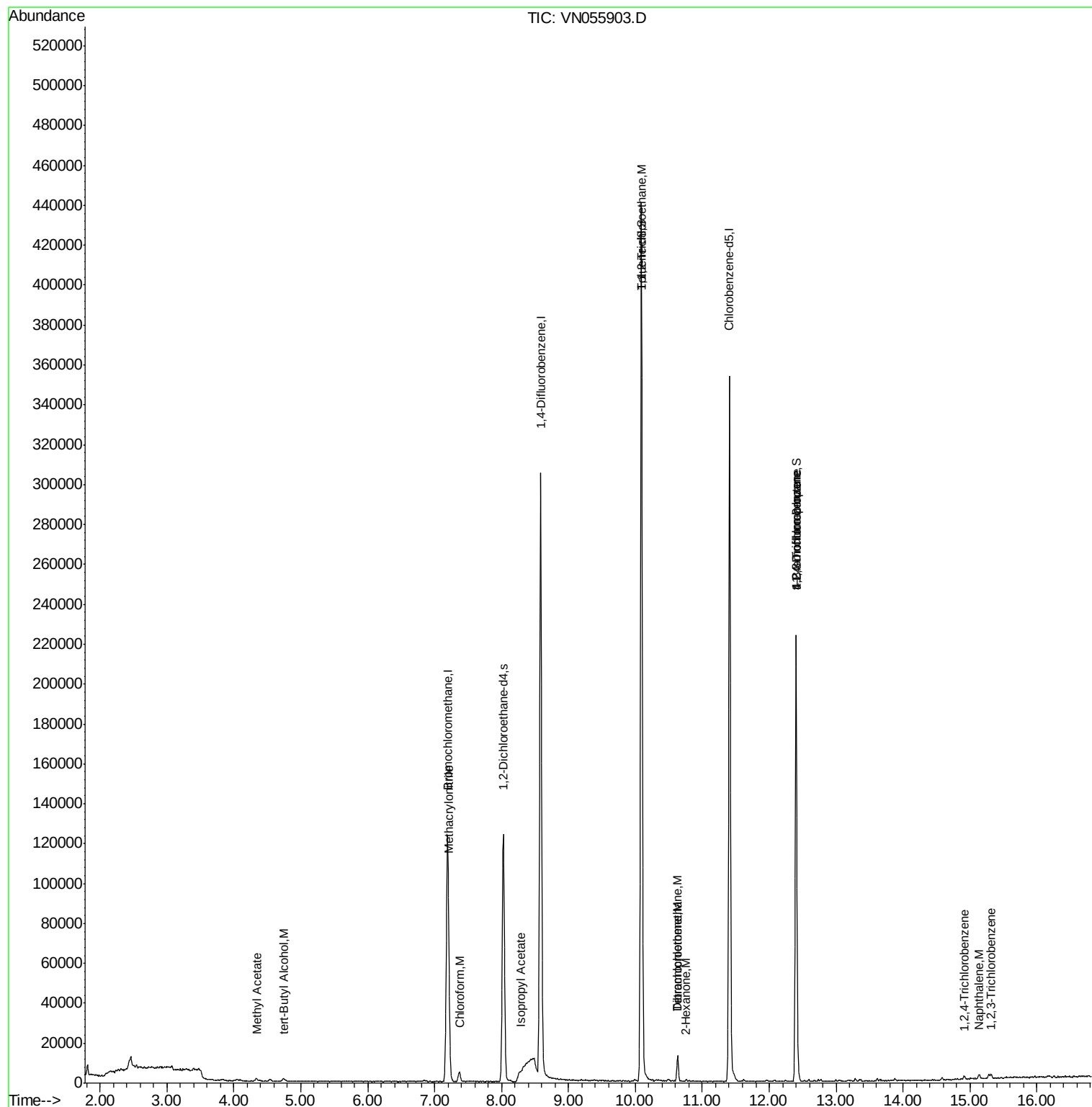
					Ovalue	
12) Methyl Acetate	4.34	43	2642	0.784	ug/l	91
23) tert-Butyl Alcohol	4.75	59	539	0.798	ug/l #	100
25) Chloroform	7.37	83	5704	1.061	ug/l	98
35) Methacrylonitrile	7.22	41	682	0.348	ug/l #	43
44) Isopropyl Acetate	8.28	43	4582	0.663	ug/l #	47
50) 1,1,2-Trichloroethane	10.10	97	9800	3.152	ug/l #	1
53) Dibromochloromethane	10.63	129	3177	0.865	ug/l #	10
59) 2-Hexanone	10.76	43	1411	0.524	ug/l #	60
61) Tetrachloroethene	10.63	164	3234	1.050	ug/l #	83
72) 1,2,3-Trichloropropane	12.40	75	38096	10.938	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	38096	27.537	ug/l #	17
89) 1,2,4-Trichlorobenzene	14.91	180	892	0.301	ug/l	90
91) Naphthalene	15.14	128	3089	0.381	ug/l #	87
92) 1,2,3-Trichlorobenzene	15.32	180	1079	0.348	ug/l	92

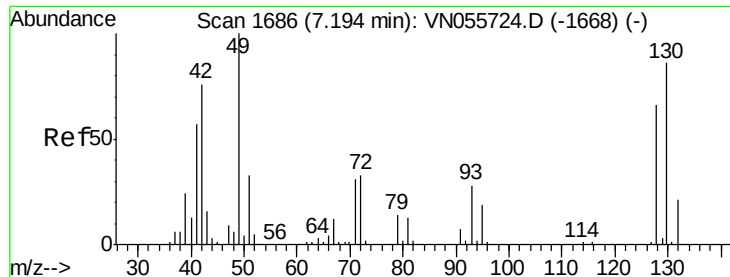
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN053019\
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MSVOA_N
ClientSampleId :

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration

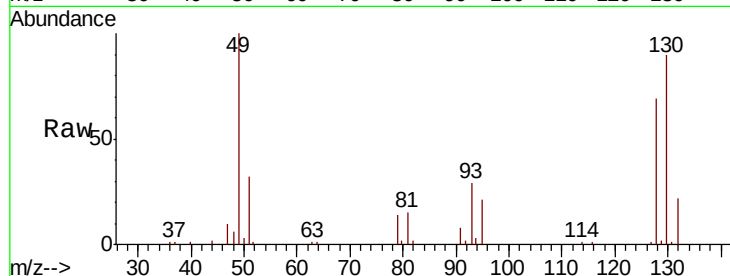




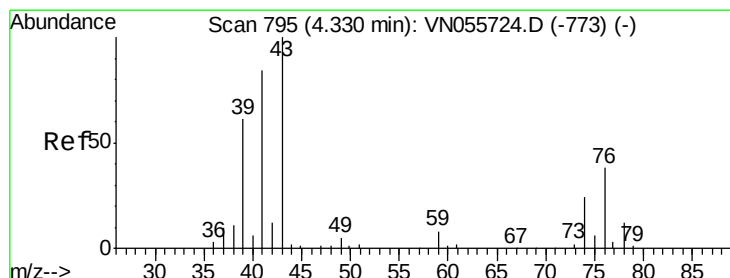
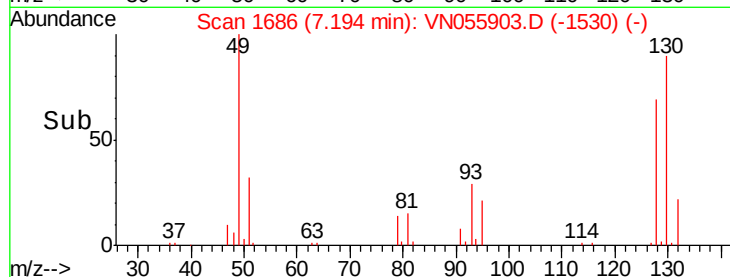
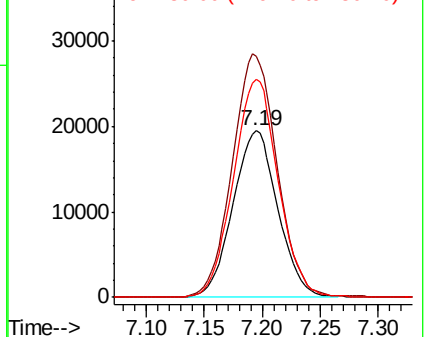
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055903.D
 Acq: 30 May 2019 16:39

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:128 Resp: 52228
 Ion Ratio Lower Upper
 128 100
 49 146.4 0.0 383.2
 130 131.0 0.0 326.3

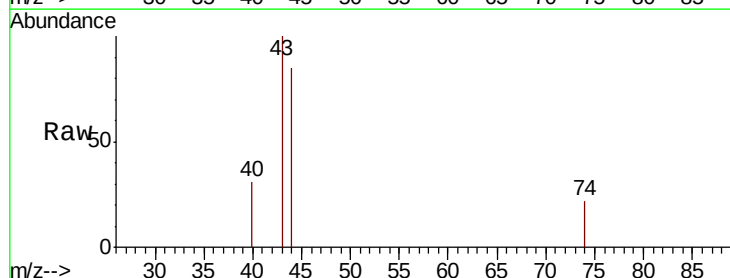


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

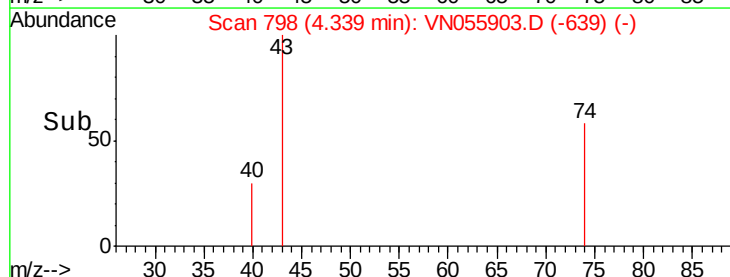
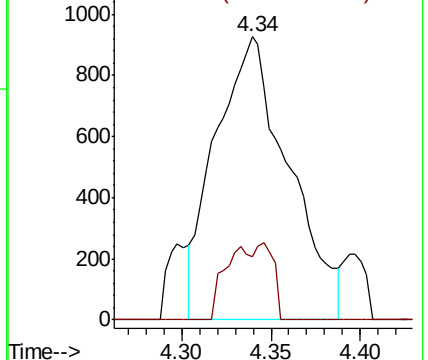


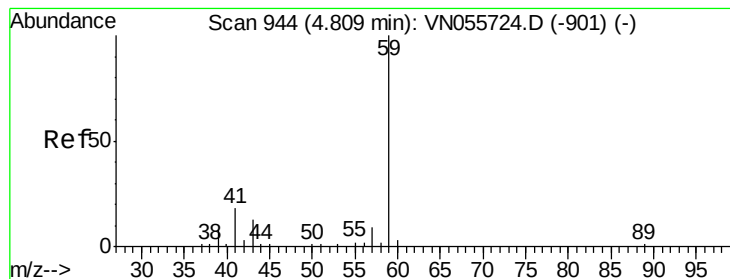
#12
 Methyl Acetate
 Concen: 0.784 ug/l
 RT: 4.34 min Scan# 798
 Delta R.T. 0.01 min
 Lab File: VN055903.D
 Acq: 30 May 2019 16:39

Tgt Ion: 43 Resp: 2642
 Ion Ratio Lower Upper
 43 100
 74 28.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 74.00 (73.70 to 74.70): VN



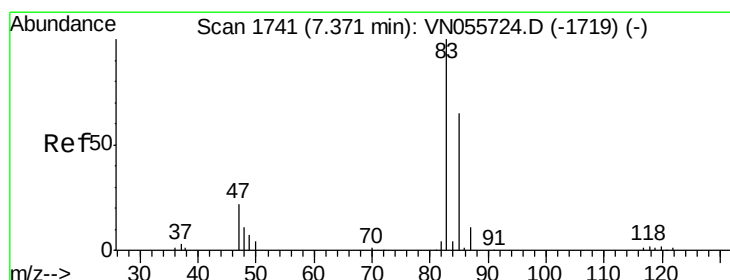
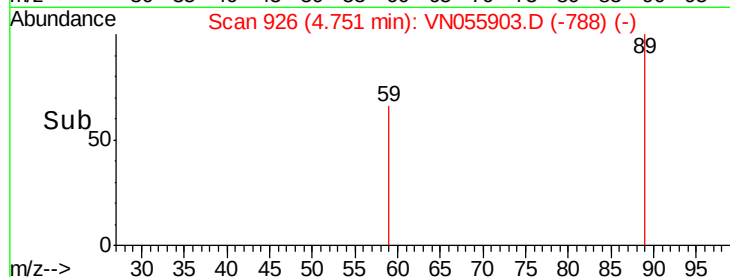
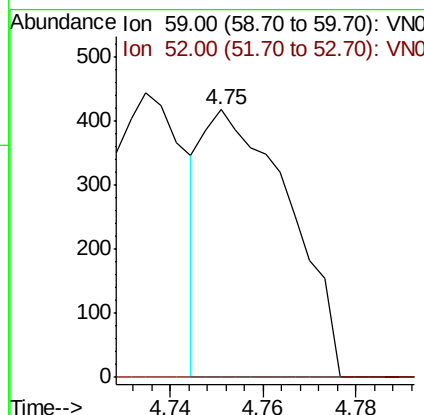
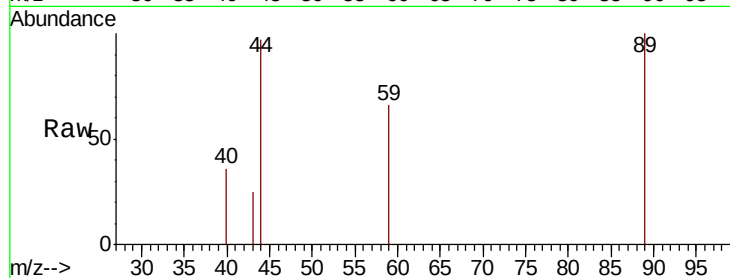


#23

tert-Butyl Alcohol
 Concen: 0.798 ug/l
 RT: 4.75 min Scan# 926
 Delta R.T. -0.06 min
 Lab File: VN055903.D
 Acq: 30 May 2019 16:39

Instrument :
 MSVOA_N
 ClientSampleId :

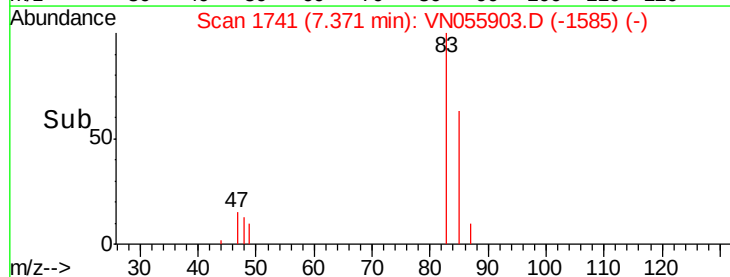
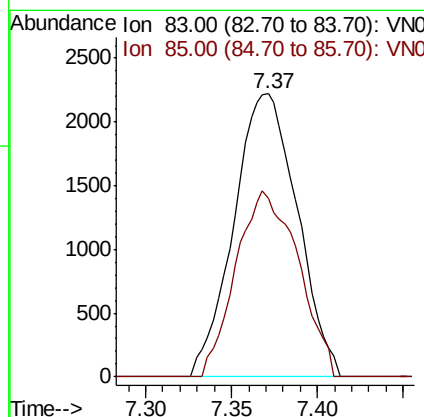
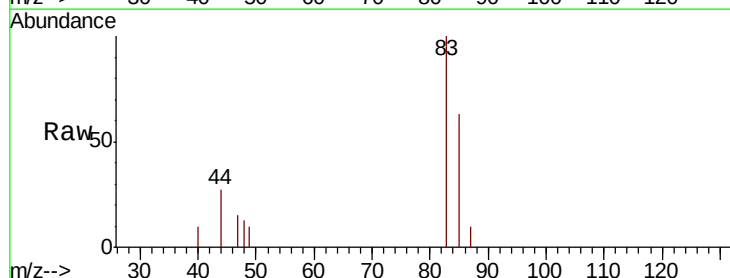
Tot Ion: 59 Resp: 539
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

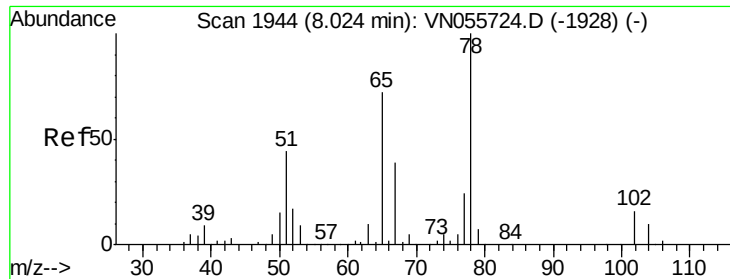


#25

Chloroform
 Concen: 1.061 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VN055903.D
 Acq: 30 May 2019 16:39

Tgt Ion: 83 Resp: 5704
 Ion Ratio Lower Upper
 83 100
 85 63.0 51.7 77.5

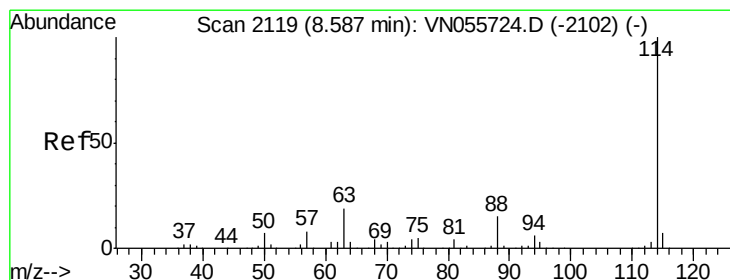
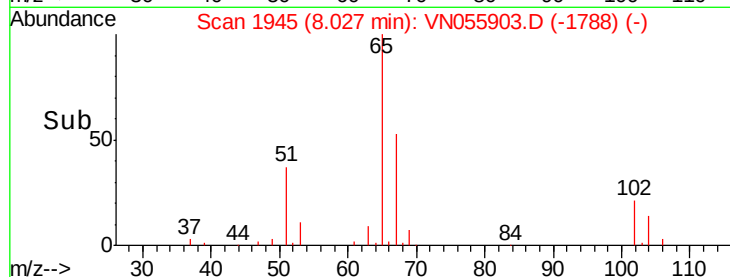
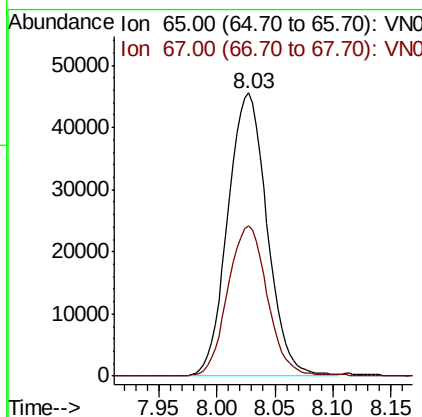
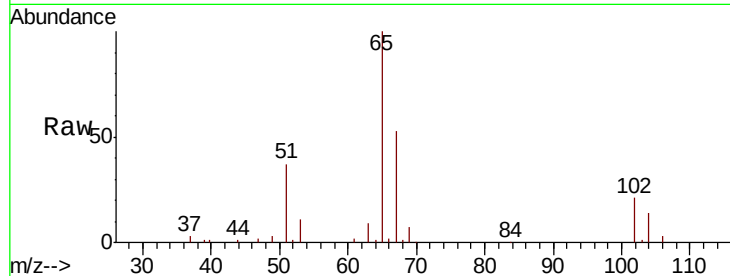




#27
 1,2-Dichloroethane-d4
 Concen: 31.409 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055903.D
 Acq: 30 May 2019 16:39

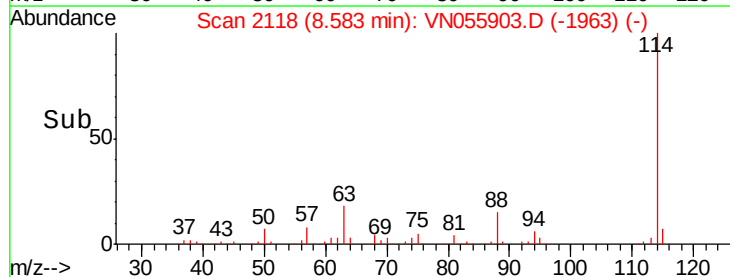
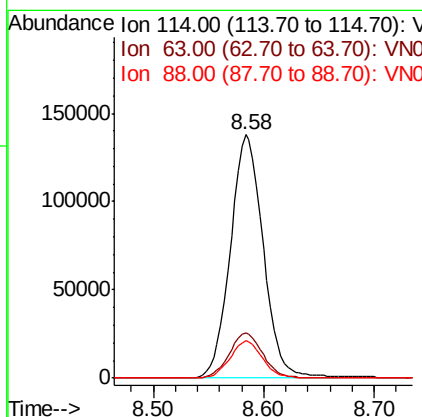
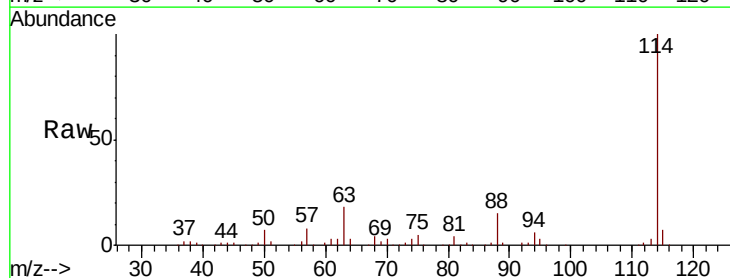
Instrument :
 MSVOA_N
 ClientSampled :

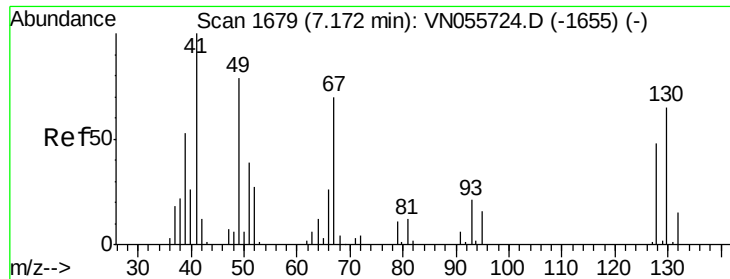
Tot Ion: 65 Resp: 107223
 Ion Ratio Lower Upper
 65 100
 67 53.3 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055903.D
 Acq: 30 May 2019 16:39

Tgt Ion: 114 Resp: 284682
 Ion Ratio Lower Upper
 114 100
 63 18.7 15.6 23.4
 88 15.2 12.3 18.5

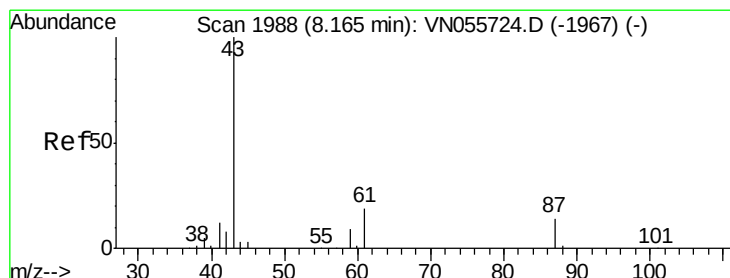
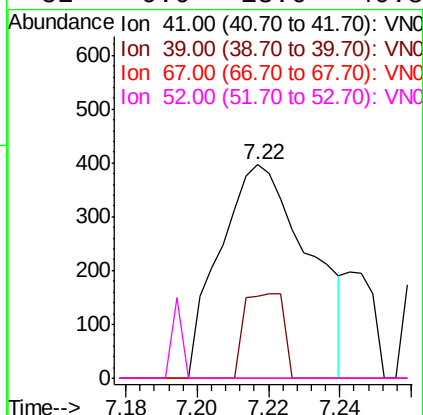
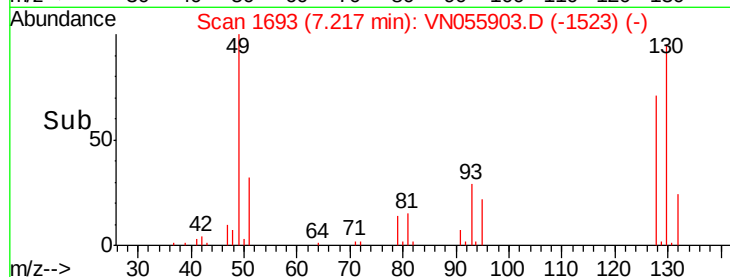
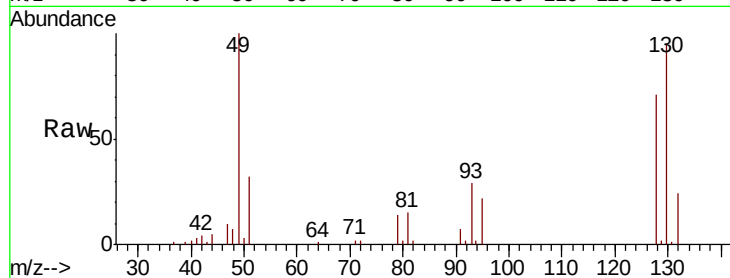




#35
Methacrylonitrile
Concen: 0.348 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN055903.D
Acq: 30 May 2019 16:39

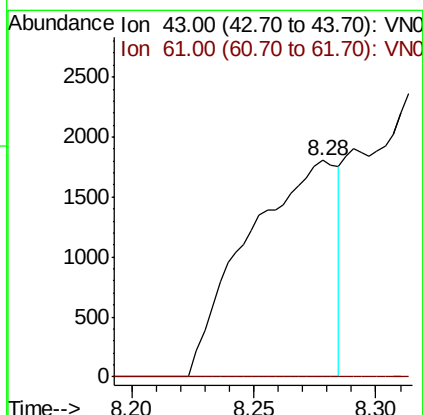
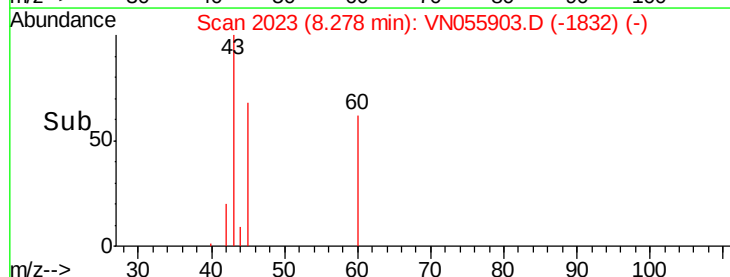
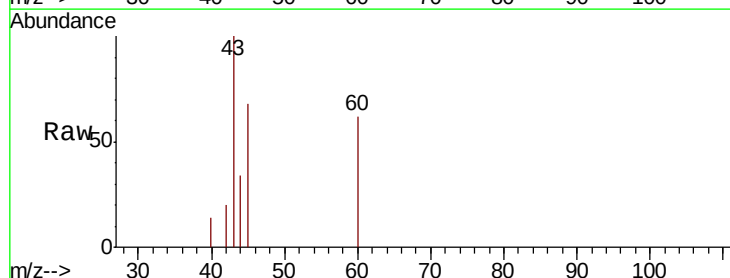
Instrument :
MSVOA_N
ClientSampled :

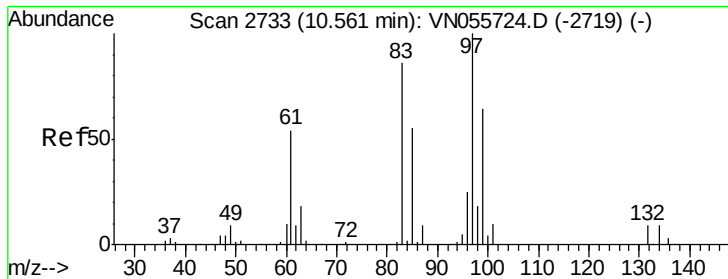
Tot Ion: 41 Resp: 682
Ion Ratio Lower Upper
41 100
39 38.3 26.7 80.1
67 0.0 34.9 104.7#
52 0.0 13.6 40.8#



#44
Isopropyl Acetate
Concen: 0.663 ug/l
RT: 8.28 min Scan# 2023
Delta R.T. 0.11 min
Lab File: VN055903.D
Acq: 30 May 2019 16:39

Tgt Ion: 43 Resp: 4582
Ion Ratio Lower Upper
43 100
61 0.0 22.1 33.1#





#50

1,1,2-Trichloroethane

Concen: 3.152 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055903.D

Acq: 30 May 2019 16:39

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 97 Resp: 9800

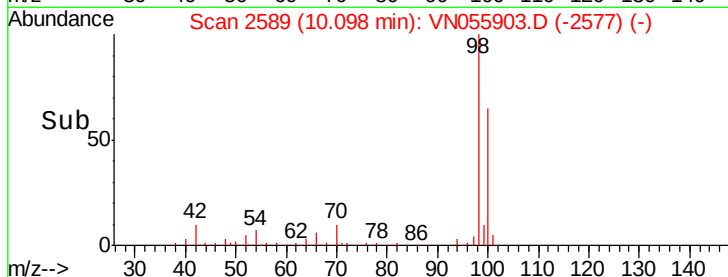
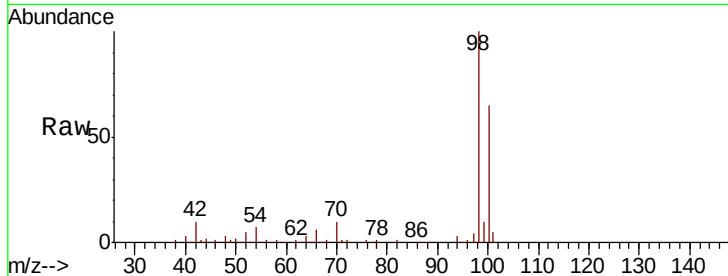
Ion Ratio Lower Upper

97 100

83 0.0 68.9 103.3#

85 0.0 44.3 66.5#

99 285.3 51.4 77.0#

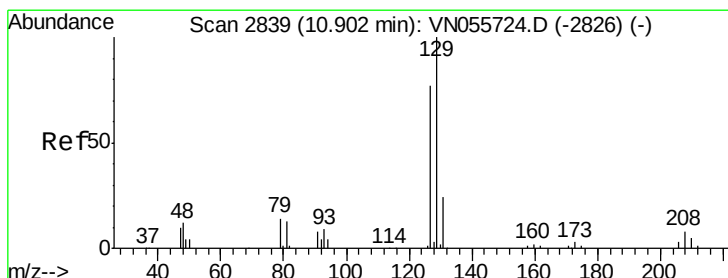
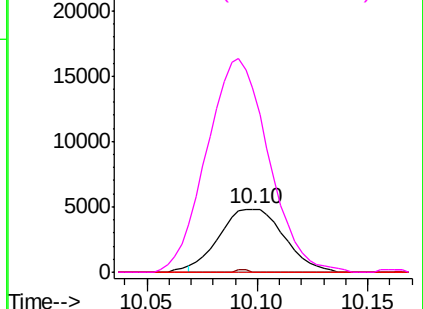


Abundance Ion 97.00 (96.70 to 97.70): VN0

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: 0.865 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN055903.D

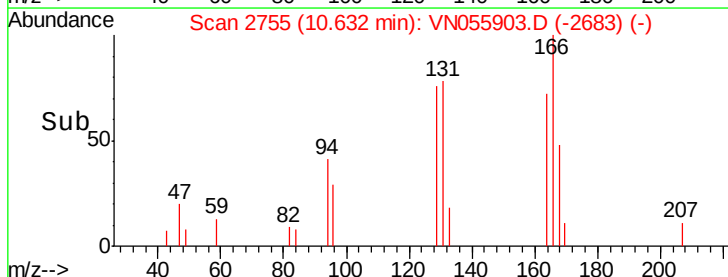
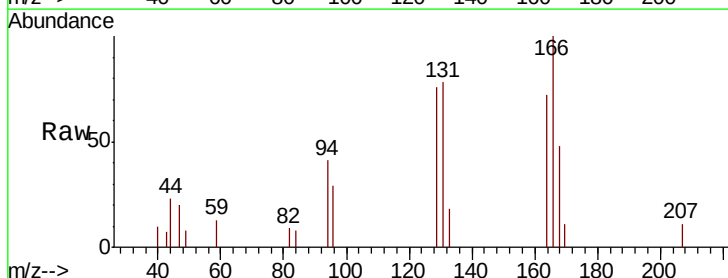
Acq: 30 May 2019 16:39

Tgt Ion: 129 Resp: 3177

Ion Ratio Lower Upper

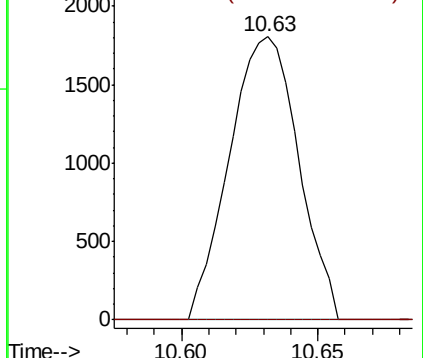
129 100

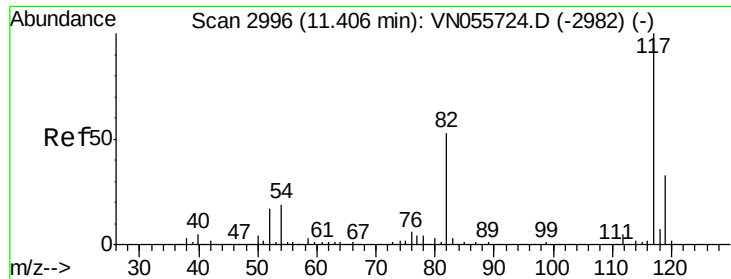
127 0.0 39.2 117.6#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

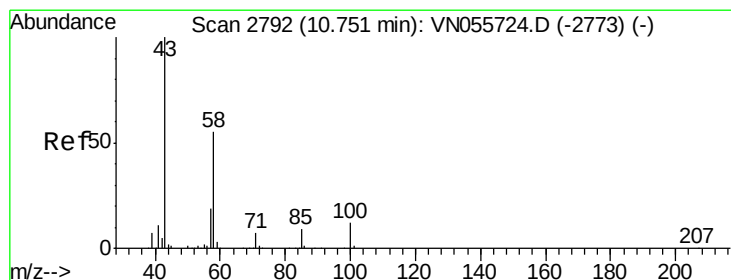
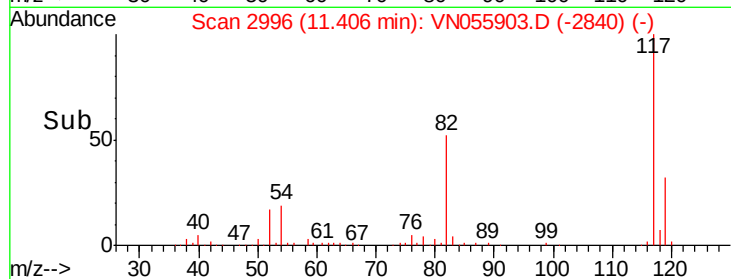
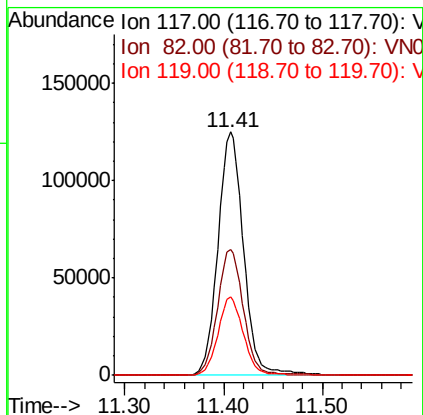
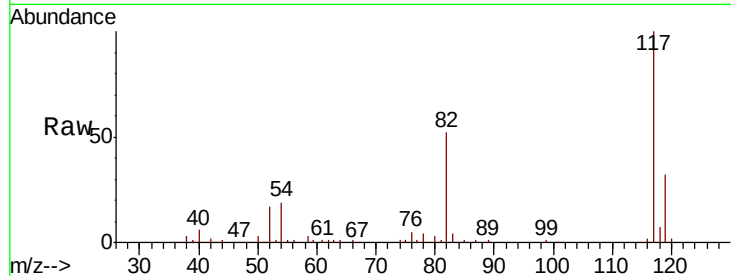




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055903.D
Acq: 30 May 2019 16:39

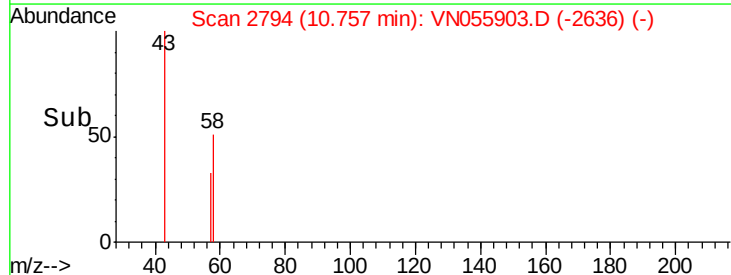
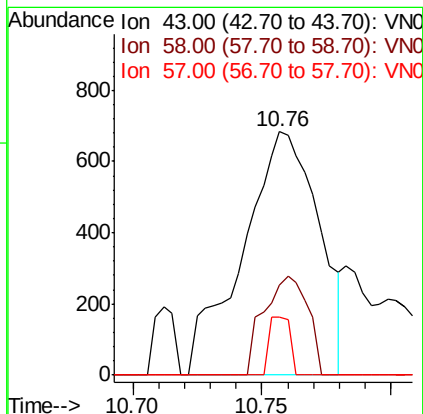
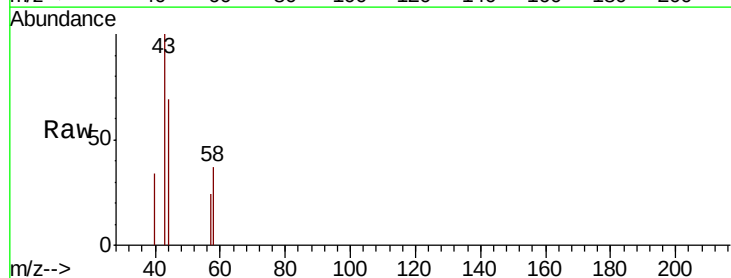
Instrument :
MSVOA_N
ClientSampled :

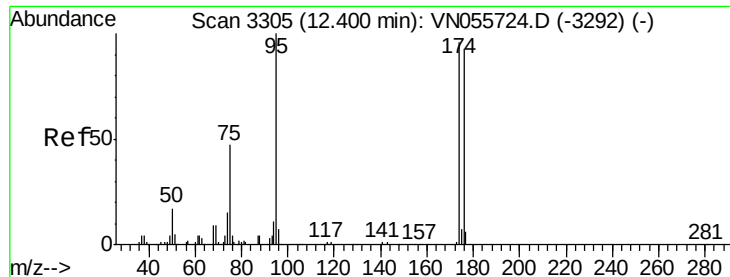
Tot Ion:117 Resp: 227536
Ion Ratio Lower Upper
117 100
82 51.9 42.6 64.0
119 31.8 25.9 38.9



#59
2-Hexanone
Concen: 0.524 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055903.D
Acq: 30 May 2019 16:39

Tgt Ion: 43 Resp: 1411
Ion Ratio Lower Upper
43 100
58 23.3 44.8 67.2#
57 6.6 15.3 22.9#

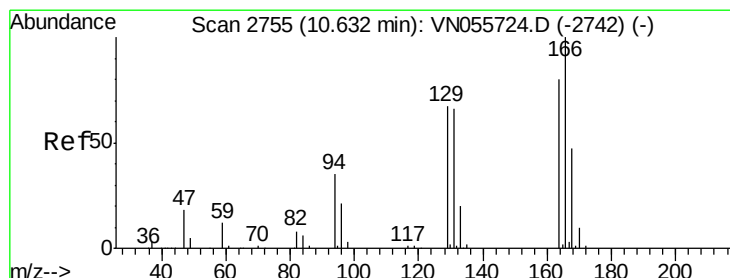
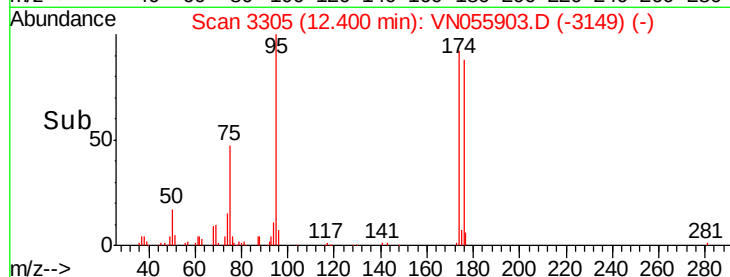
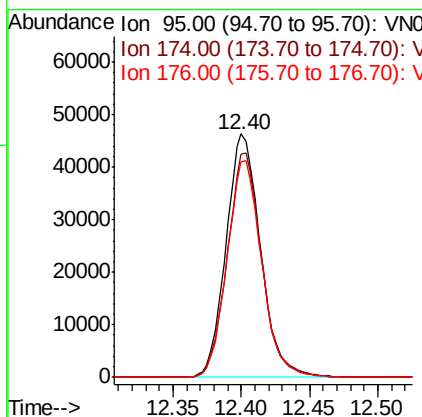
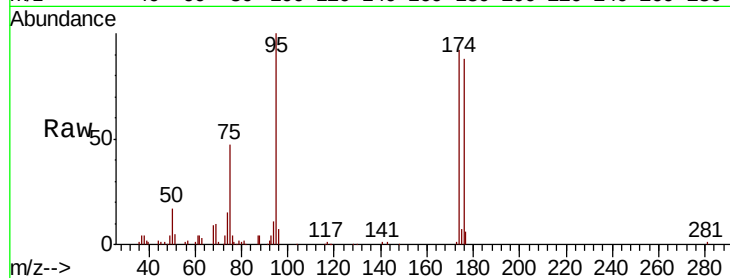




#60
4-Bromofluorobenzene
Concen: 22.998 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055903.D
Acq: 30 May 2019 16:39

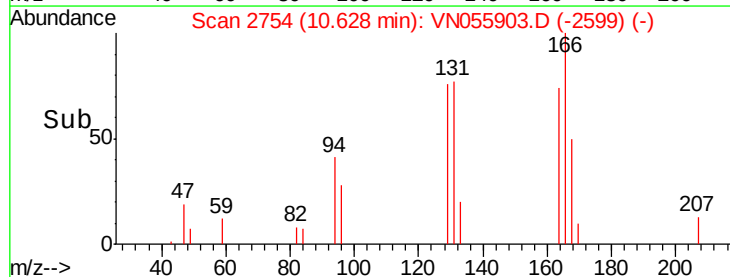
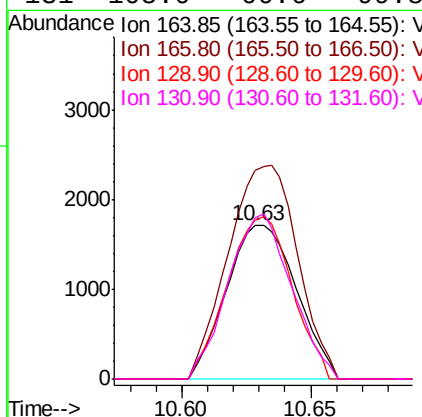
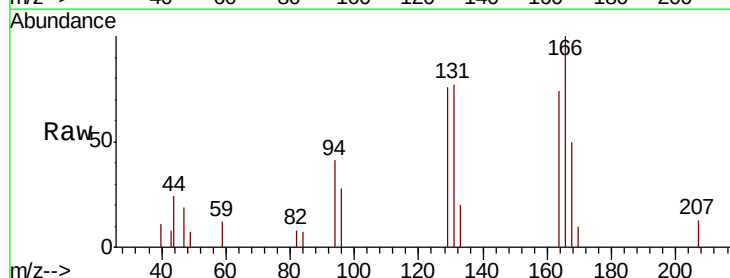
Instrument :
MSVOA_N
ClientSampled :

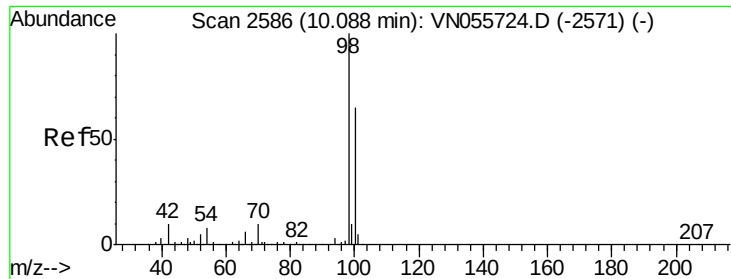
Tot Ion: 95 Resp: 81403
Ion Ratio Lower Upper
95 100
174 91.9 75.7 113.5
176 89.2 74.1 111.1



#61
Tetrachloroethene
Concen: 1.050 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN055903.D
Acq: 30 May 2019 16:39

Tgt Ion: 164 Resp: 3234
Ion Ratio Lower Upper
164 100
166 135.6 100.6 150.8
129 103.2 67.4 101.2#
131 105.0 66.6 99.8#





#63

Toluene-d8

Concen: 31.368 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055903.D

Acq: 30 May 2019 16:39

Instrument :

MSVOA_N

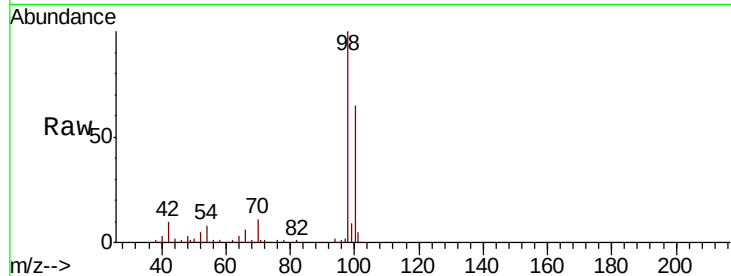
ClientSampled :

Tot Ion: 98 Resp: 326167

Ion Ratio Lower Upper

98 100

100 65.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

200000

150000

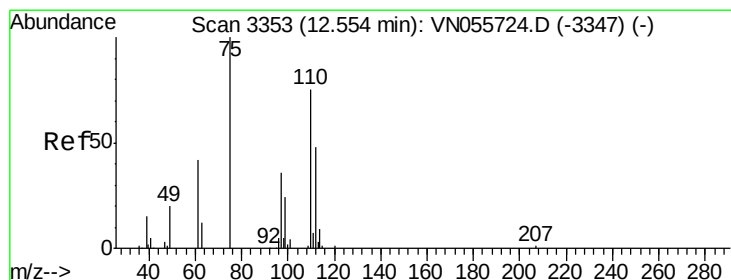
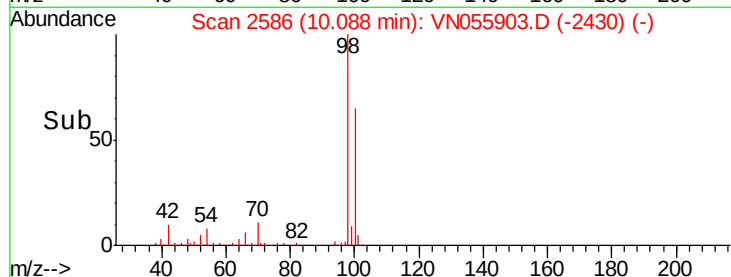
100000

50000

0

10.00 10.10 10.20

Time-->



#72

1,2,3-Trichloropropane

Concen: 10.938 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055903.D

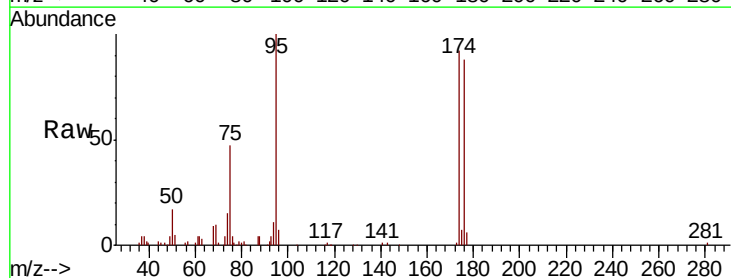
Acq: 30 May 2019 16:39

Tgt Ion: 75 Resp: 38096

Ion Ratio Lower Upper

75 100

77 1.1 0.0 349.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

25000

20000

15000

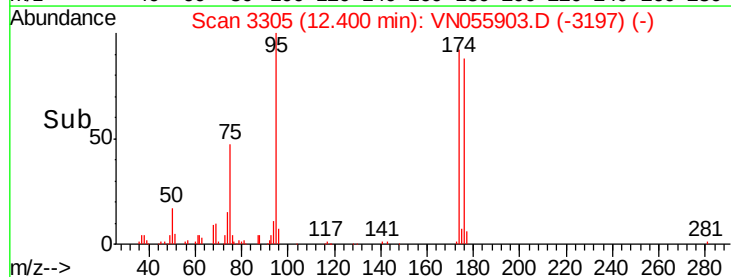
10000

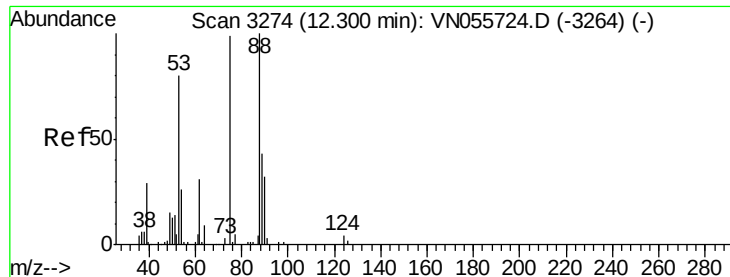
5000

0

12.35 12.40 12.45

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 27.537 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055903.D

Acq: 30 May 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

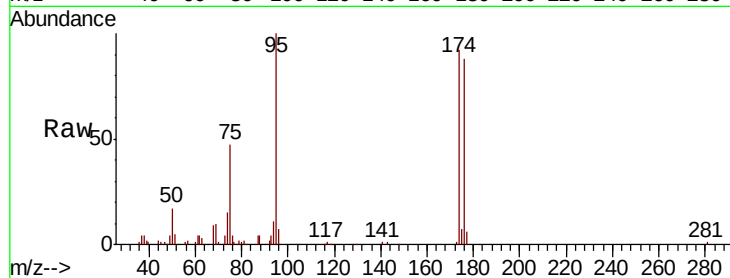
Tot Ion: 75 Resp: 38096

Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

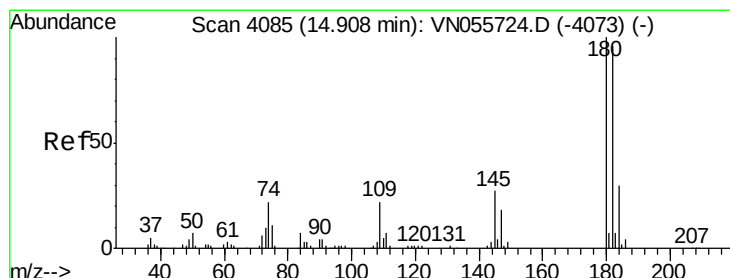
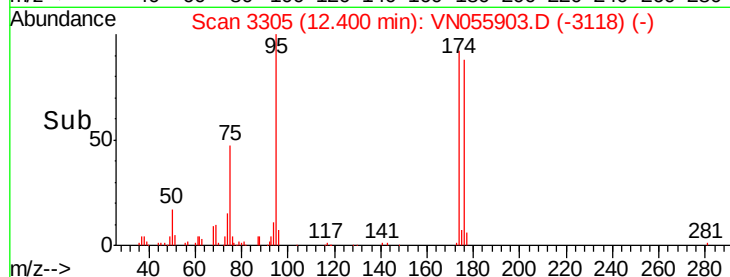
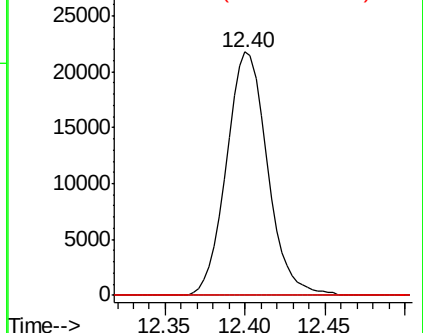
89 0.0 22.6 67.8#



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: 0.301 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055903.D

Acq: 30 May 2019 16:39

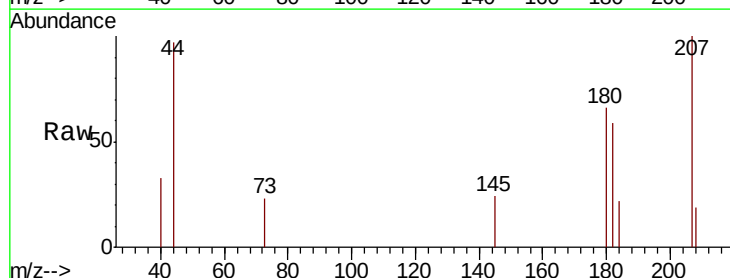
Tgt Ion: 180 Resp: 892

Ion Ratio Lower Upper

180 100

182 83.5 76.1 114.1

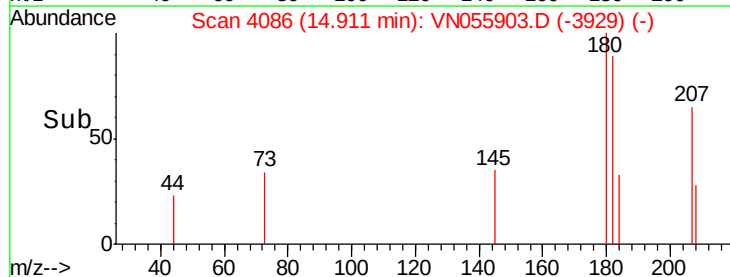
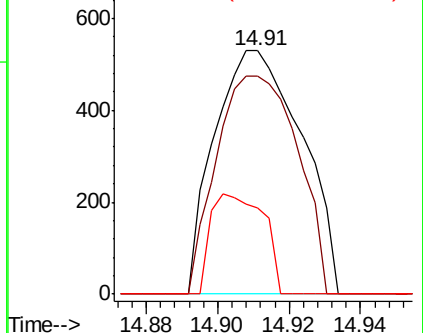
145 25.1 21.8 32.8

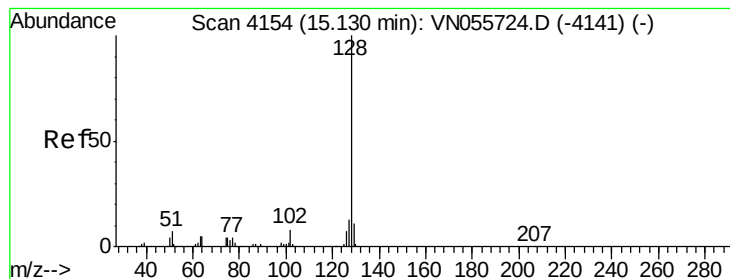


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 0.381 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055903.D

Acq: 30 May 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

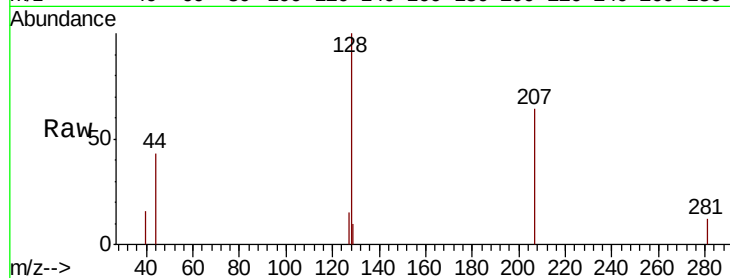
Tot Ion:128 Resp: 3089

Ion Ratio Lower Upper

128 100

127 9.8 10.0 15.0#

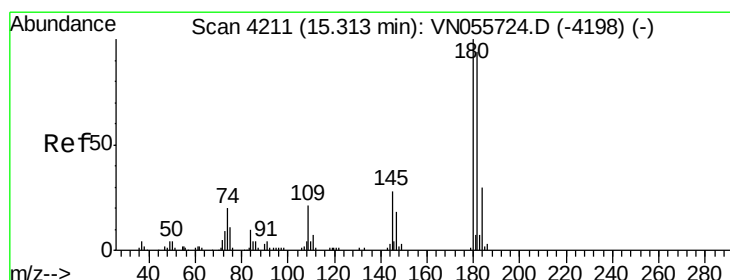
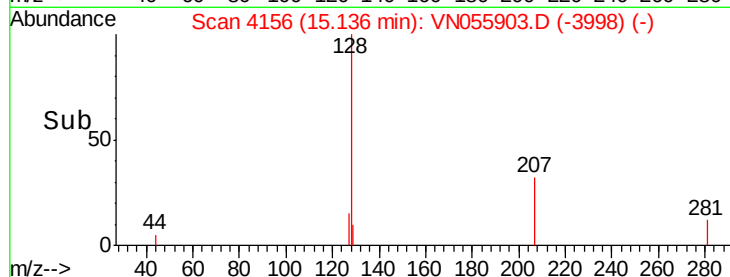
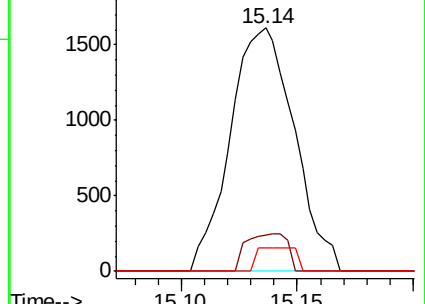
129 2.9 8.7 13.1#



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: 0.348 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055903.D

Acq: 30 May 2019 16:39

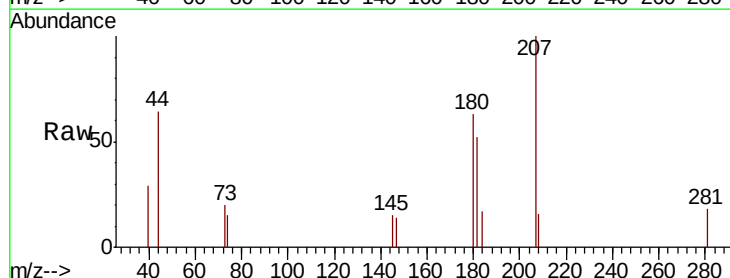
Tgt Ion:180 Resp: 1079

Ion Ratio Lower Upper

180 100

182 97.6 0.0 188.6

145 16.7 0.0 56.8



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

