

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\
 Data File : VN053984.D
 Acq On : 27 Feb 2019 22:24
 Operator : JC/SP
 Sample : K1619-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 28 00:12:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	609750	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1109790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1078705	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	407226	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	395759	55.37	ug/l	0.00
Spiked Amount			Recovery	=	110.74%	
35) Dibromofluoromethane	7.59	113	353533	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
50) Toluene-d8	10.09	98	1394945	52.22	ug/l	0.00
Spiked Amount			Recovery	=	104.44%	
62) 4-Bromofluorobenzene	12.40	95	467840	52.56	ug/l	0.00
Spiked Amount			Recovery	=	105.12%	

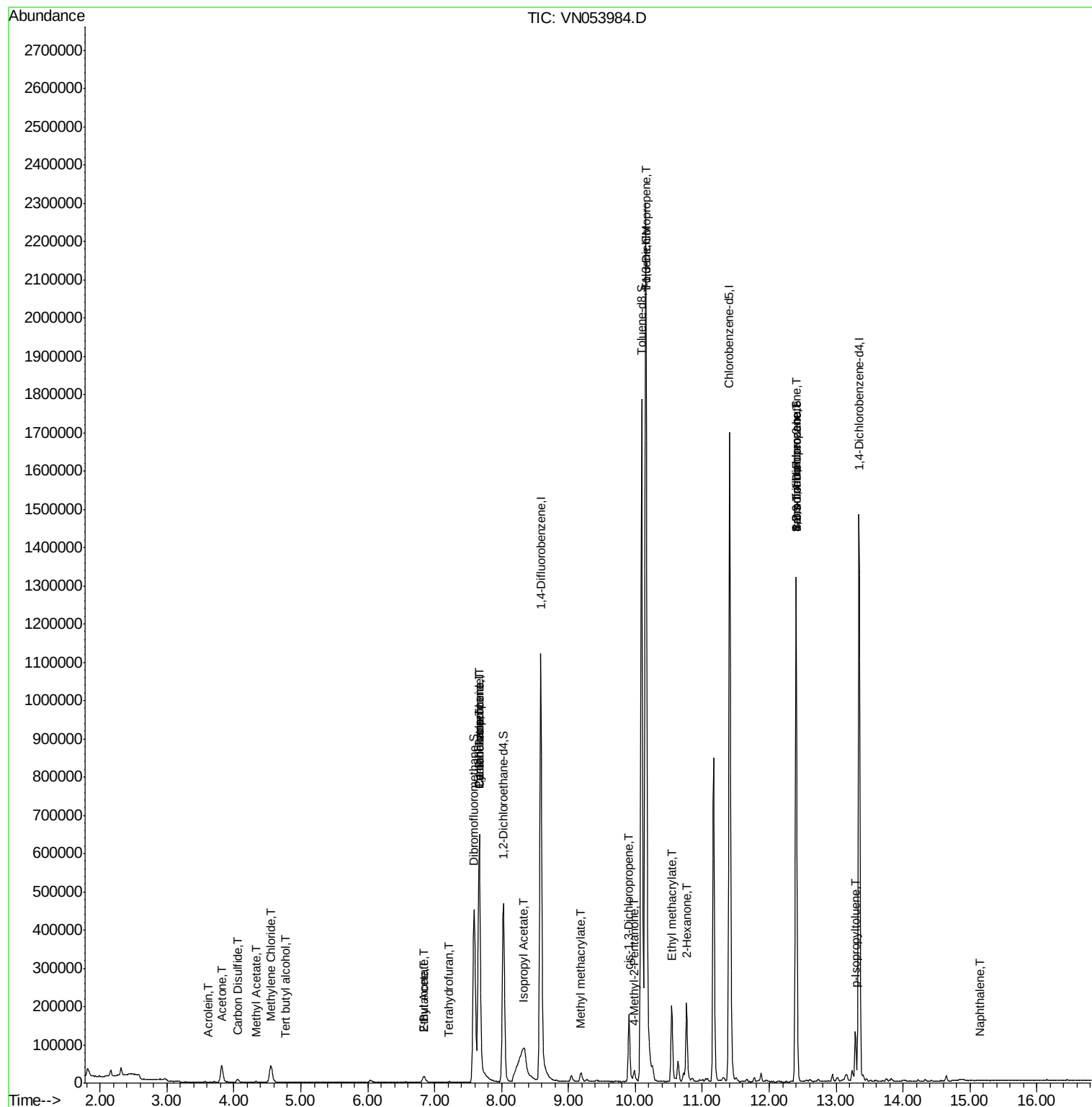
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	446	0.984	ug/l #	73
13) Acrolein	3.62	56	134	0.286	ug/l #	76
16) Acetone	3.82	43	74970	28.869	ug/l	100
17) Carbon Disulfide	4.06	76	8661	0.446	ug/l	97
18) Methyl Acetate	4.34	43	4353	0.871	ug/l #	80
20) Methylene Chloride	4.55	84	33128	4.683	ug/l	93
25) 2-Butanone	6.84	43	25440	9.065	ug/l	94
29) Tetrahydrofuran	7.21	42	852	0.456	ug/l #	69
31) Cyclohexane	7.66	56	11597	0.610	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	42471	4.115	ug/l #	45
37) Ethyl Acetate	6.84	43	25440	3.452	ug/l #	67
38) Carbon Tetrachloride	7.66	117	52803	4.919	ug/l #	17
43) Isopropyl Acetate	8.34	43	260514	20.937	ug/l #	58
48) Methyl methacrylate	9.18	41	10889	1.903	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	18651	2.917	ug/l	92
52) Toluene	10.16	92	1089805	58.374	ug/l	98
53) t-1,3-Dichloropropene	10.15	75	11870	1.166	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	33749	2.811	ug/l #	71
56) Ethyl methacrylate	10.55	69	1083	2.069	ug/l #	1
59) 2-Hexanone	10.76	43	32058	7.709	ug/l #	53
71) Bromoform	12.40	173	3373	0.591	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	225464	34.514	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	225464	109.084	ug/l #	15
86) p-Isopropyltoluene	13.29	119	66081	2.493	ug/l	97
95) Naphthalene	15.13	128	993	3.269	ug/l #	70

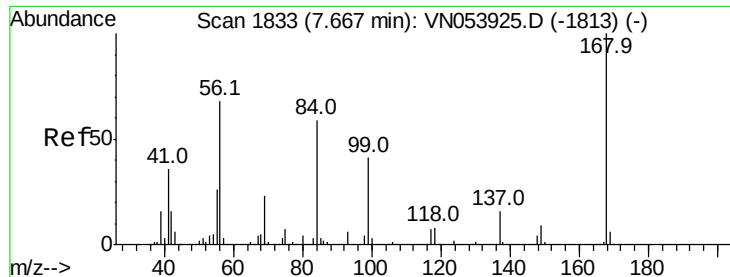
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Feb 26 05:37:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

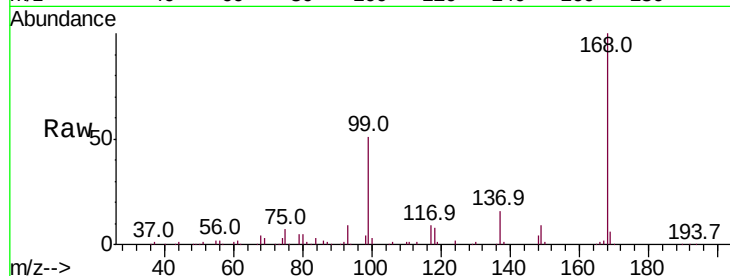
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 609750

Ion Ratio Lower Upper

168 100

99 51.0 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

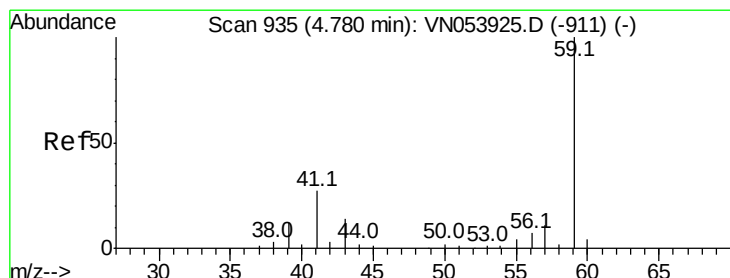
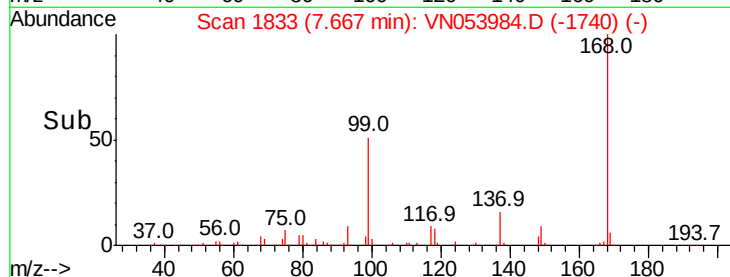
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 0.984 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.00 min

Lab File: VN053984.D

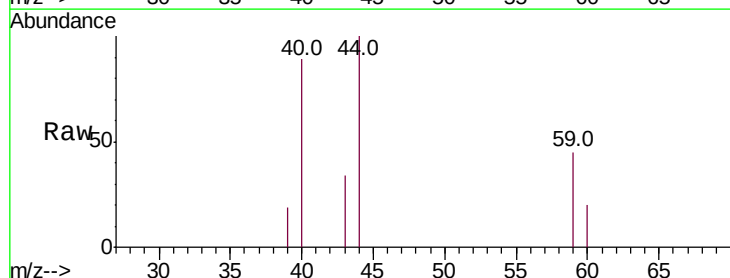
Acq: 27 Feb 2019 22:24

Tgt Ion: 59 Resp: 446

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.78

400

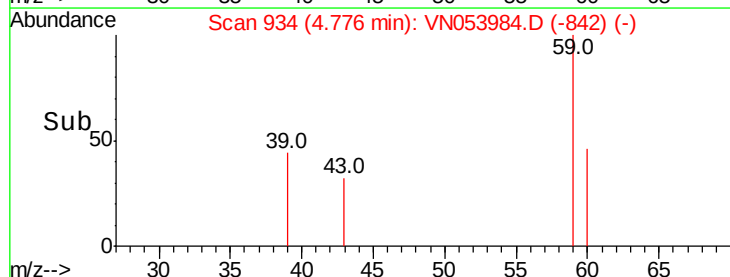
300

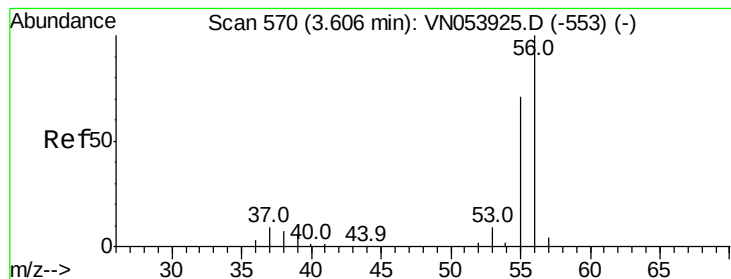
200

100

0

Time--> 4.74 4.76 4.78 4.80





#13

Acrolein

Concen: 0.286 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

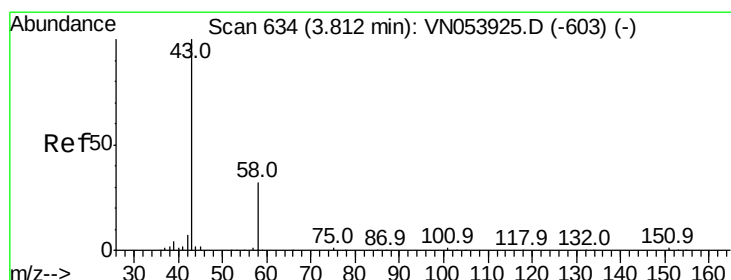
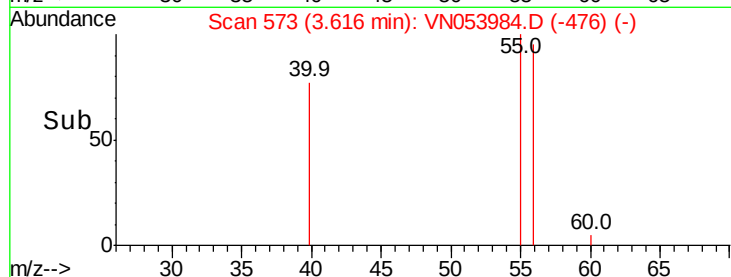
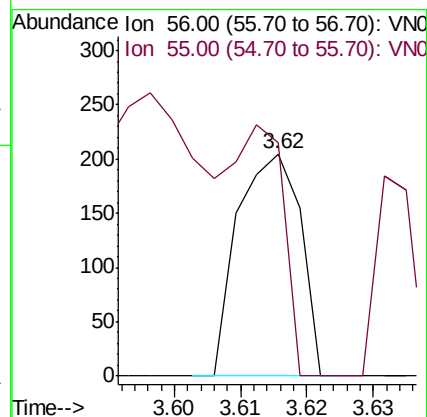
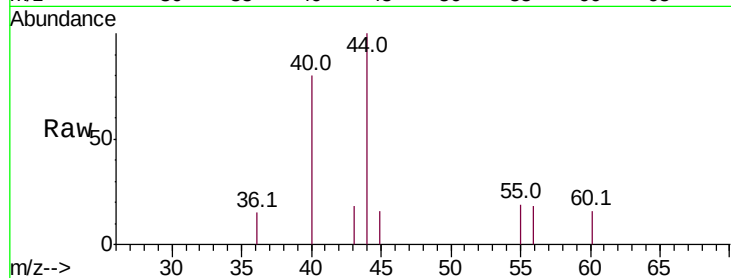
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 134

Ion Ratio Lower Upper

56 100

55 50.7 56.3 84.5#



#16

Acetone

Concen: 28.869 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053984.D

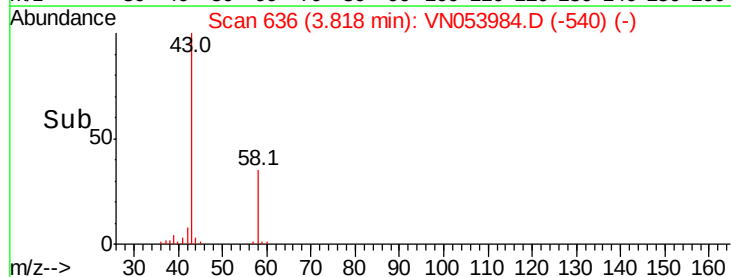
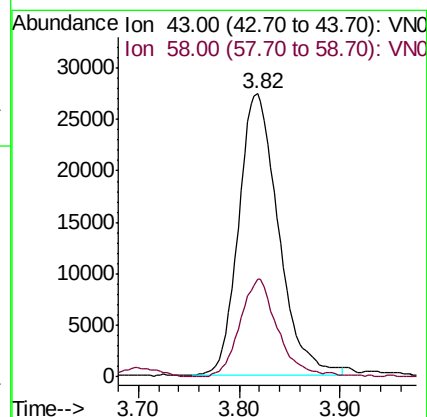
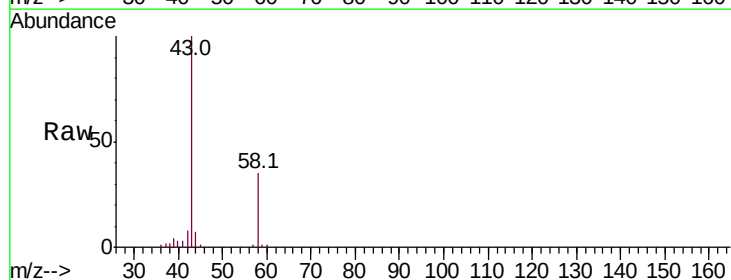
Acq: 27 Feb 2019 22:24

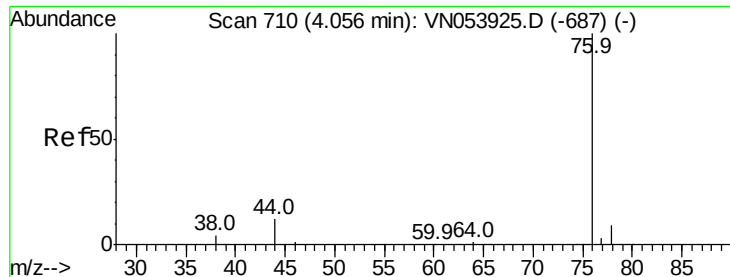
Tgt Ion: 43 Resp: 74970

Ion Ratio Lower Upper

43 100

58 34.7 27.6 41.4

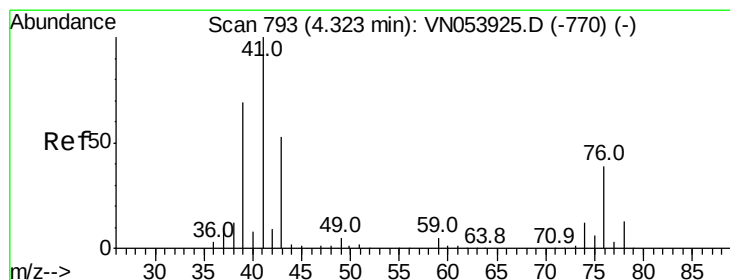
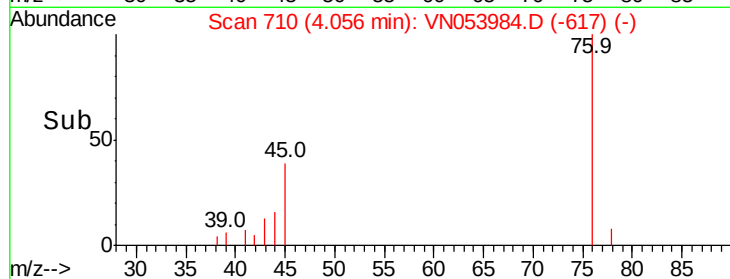
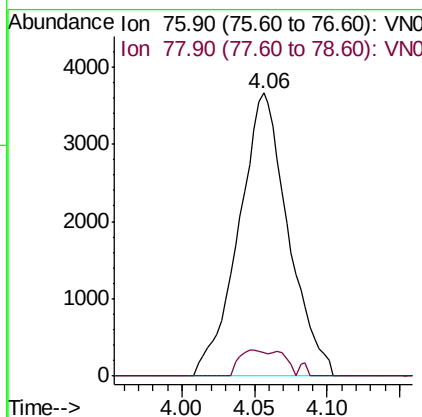
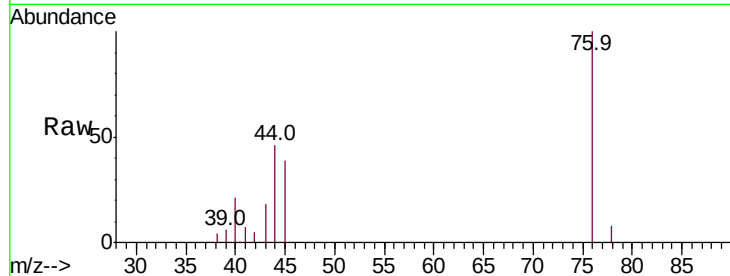




#17
Carbon Disulfide
Concen: 0.446 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

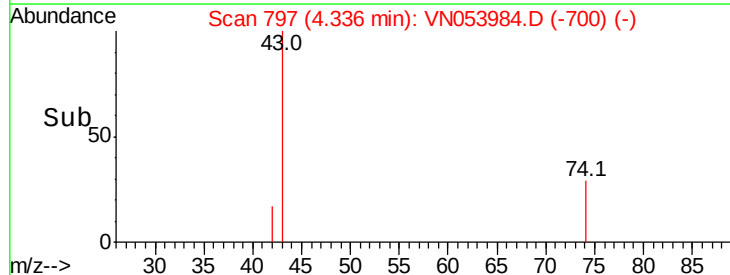
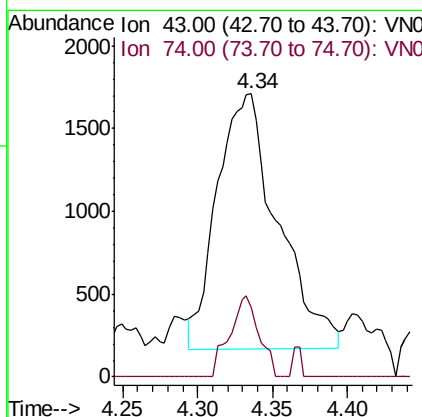
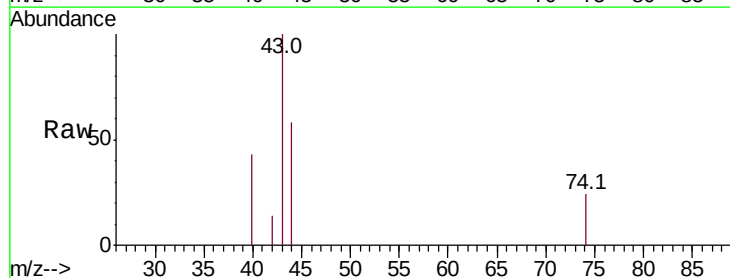
Instrument :
MSVOA_N
ClientSampleId :

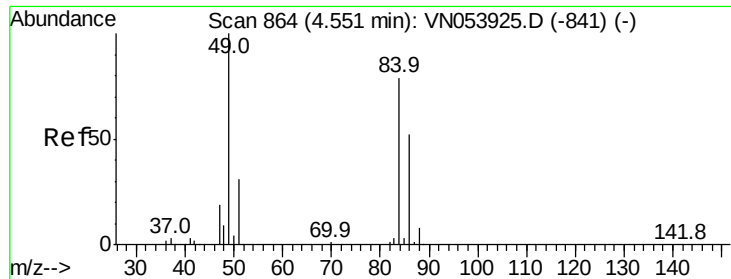
Tot Ion: 76 Resp: 8661
Ion Ratio Lower Upper
76 100
78 8.2 7.5 11.3



#18
Methyl Acetate
Concen: 0.871 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

Tgt Ion: 43 Resp: 4353
Ion Ratio Lower Upper
43 100
74 15.3 20.5 30.7#

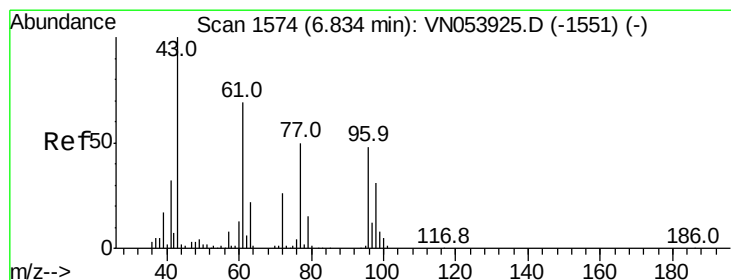
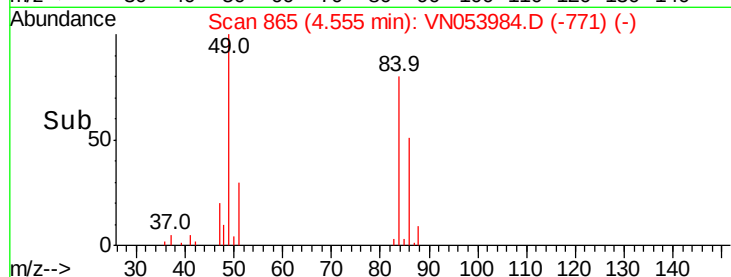
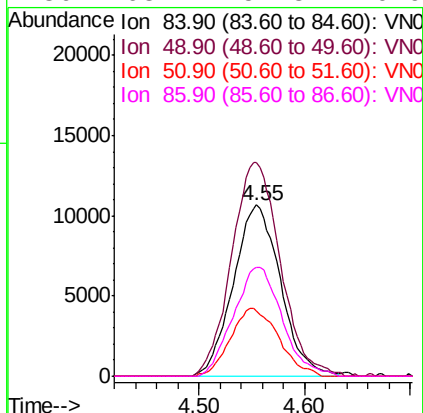
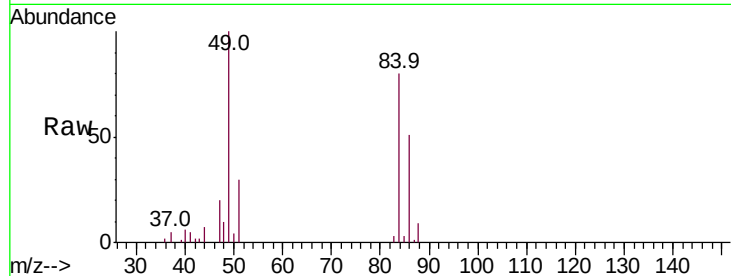




#20
Methylene Chloride
Concen: 4.683 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

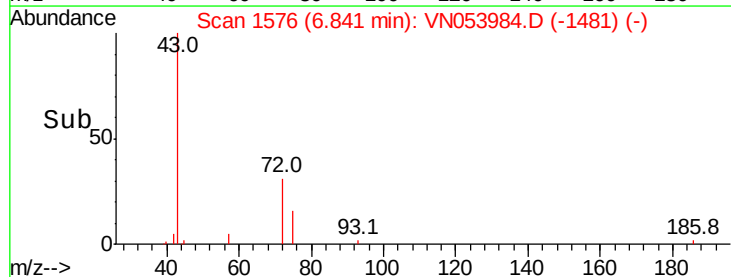
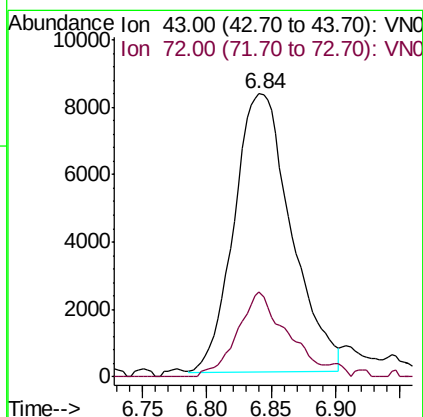
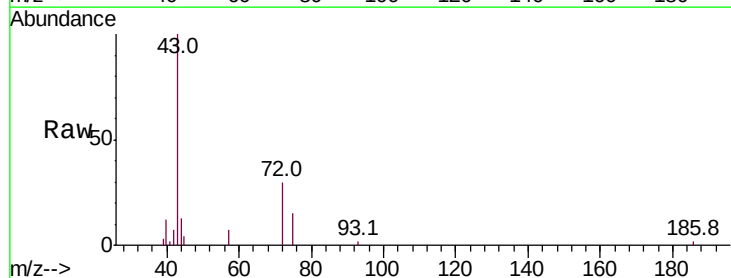
Instrument :
MSVOA_N
ClientSampleId :

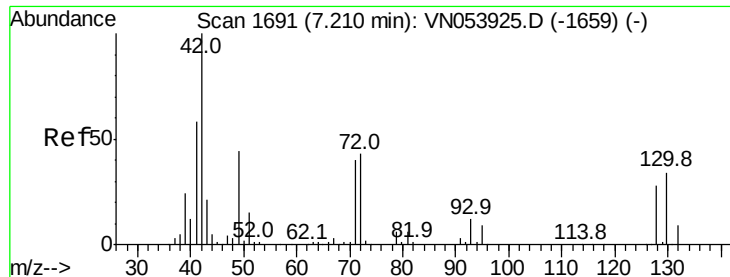
Tot Ion: 84 Resp: 33128
Ion Ratio Lower Upper
84 100
49 124.7 89.7 134.5
51 37.8 27.8 41.8
86 63.2 51.3 76.9



#25
2-Butanone
Concen: 9.065 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

Tgt Ion: 43 Resp: 25440
Ion Ratio Lower Upper
43 100
72 30.8 22.1 33.1

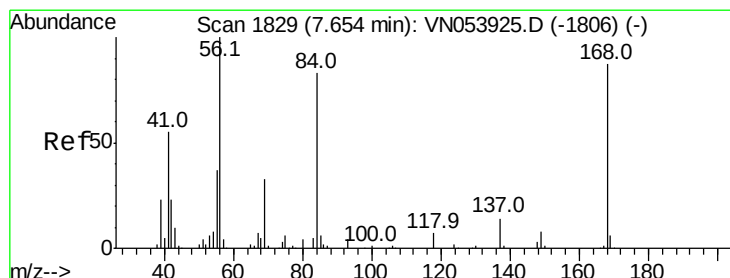
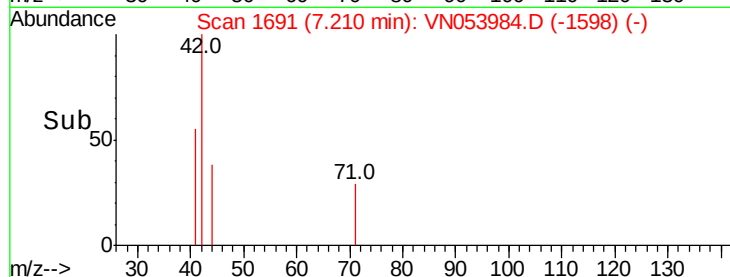
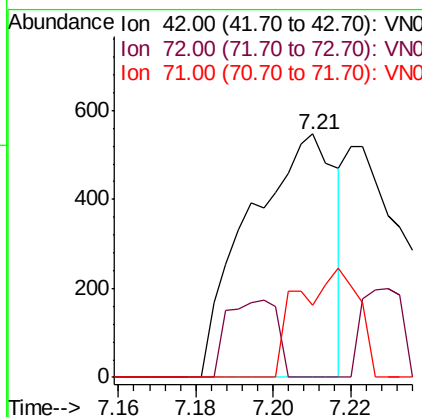
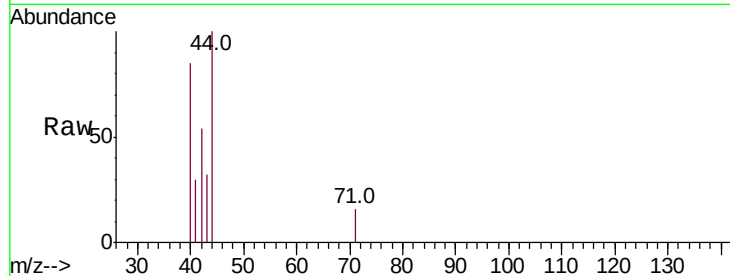




#29
Tetrahydrofuran
Concen: 0.456 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

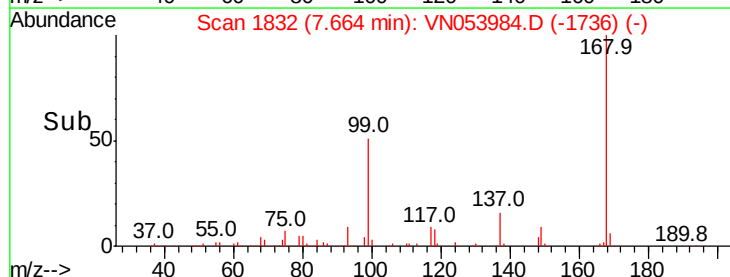
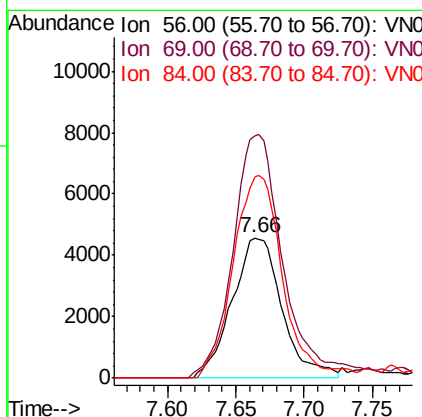
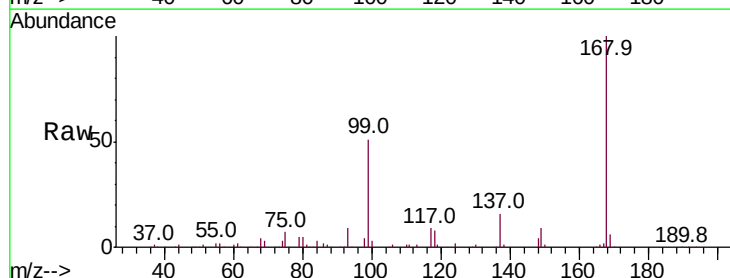
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MSVOA_N
ClientSampleId :

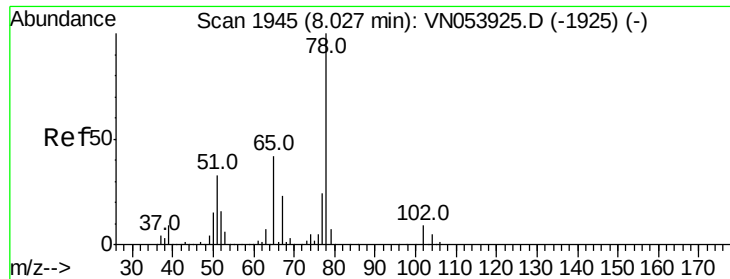
Tot Ion: 42 Resp: 852
Ion Ratio Lower Upper
42 100
72 18.3 36.9 55.3#
71 31.1 34.6 52.0#



#31
Cyclohexane
Concen: 0.610 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

Tgt Ion: 56 Resp: 11597
Ion Ratio Lower Upper
56 100
69 172.8 26.0 39.0#
84 143.1 69.1 103.7#

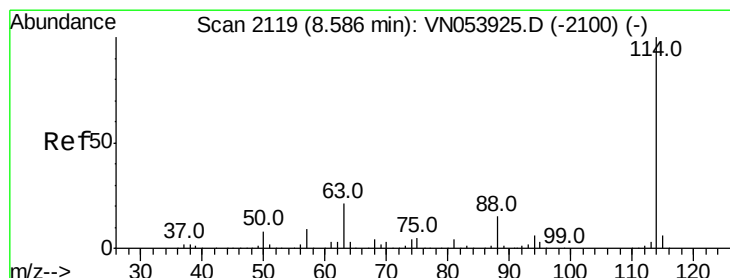
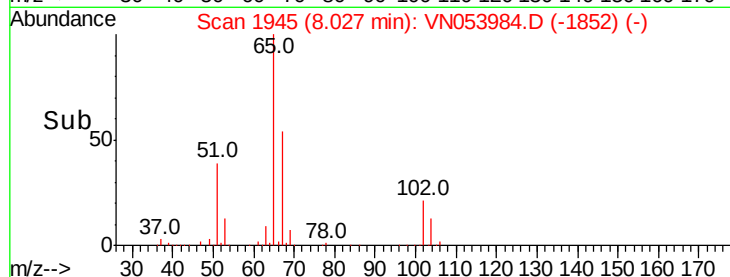
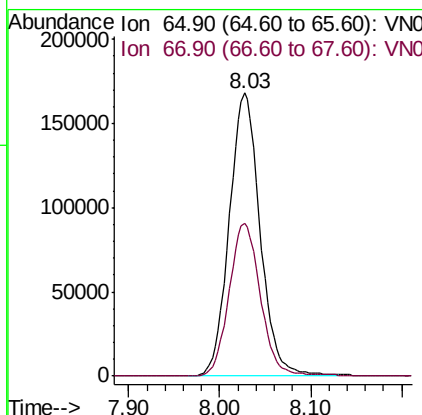
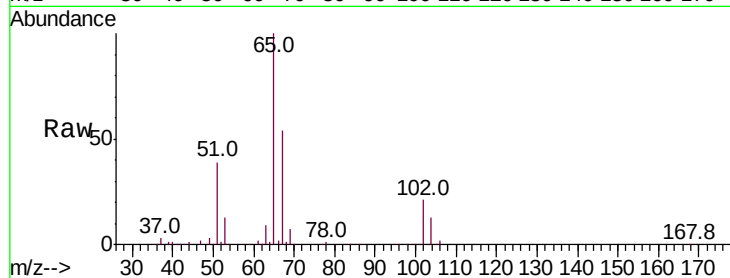




#33
 1,2-Dichloroethane-d4
 Concen: 55.369 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053984.D
 Acq: 27 Feb 2019 22:24

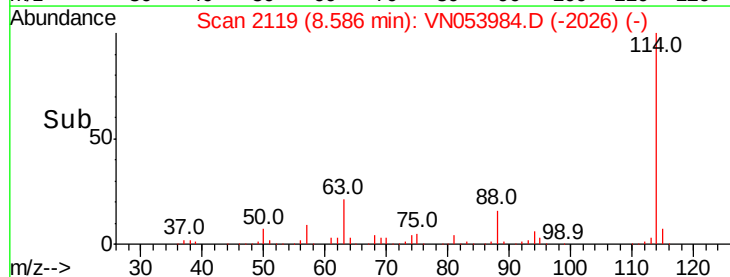
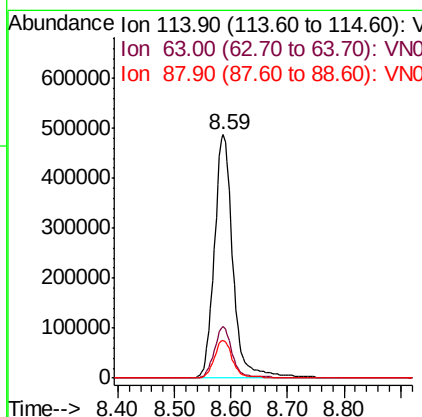
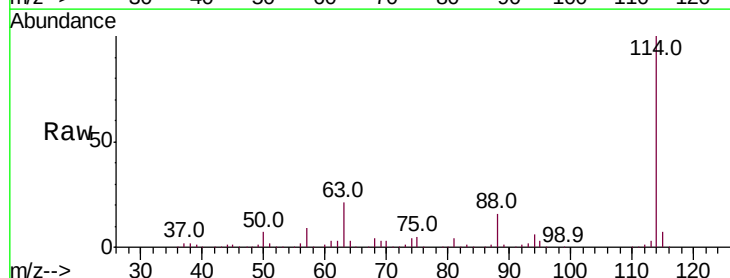
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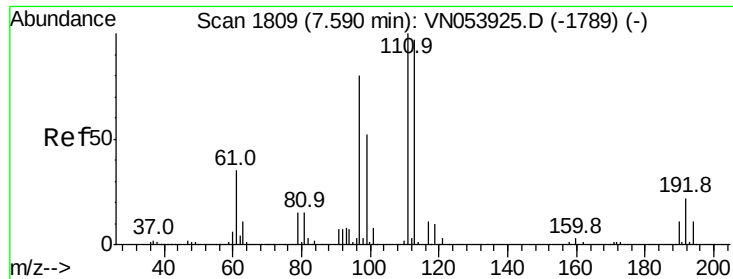
Tot Ion: 65 Resp: 395759
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053984.D
 Acq: 27 Feb 2019 22:24

Tgt Ion: 114 Resp: 1109790
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 37.4
 88 15.6 0.0 30.4

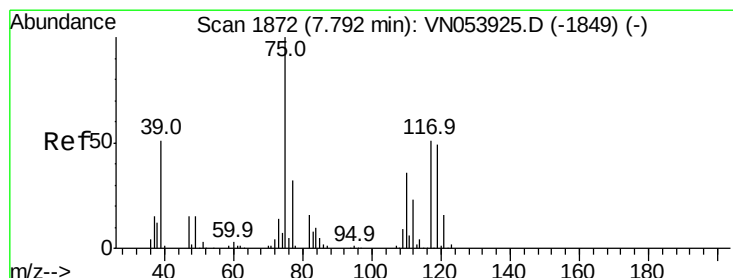
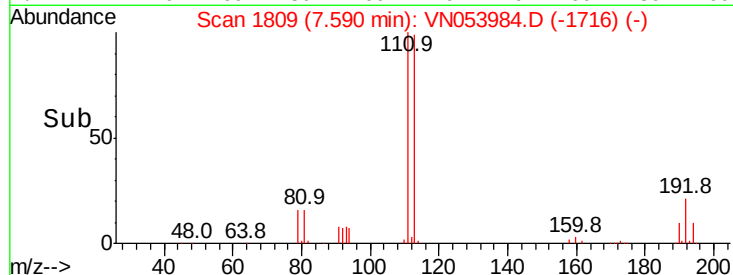
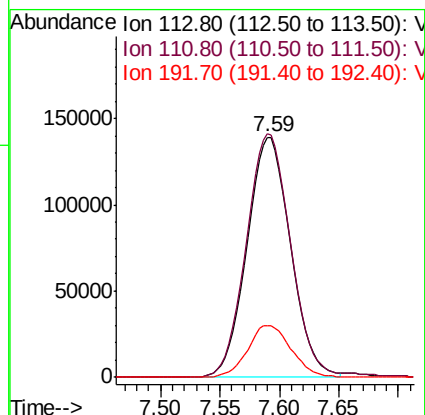
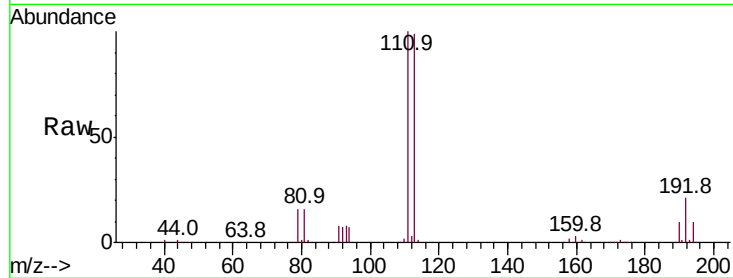




#35
 Dibromofluoromethane
 Concen: 49.262 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053984.D
 Acq: 27 Feb 2019 22:24

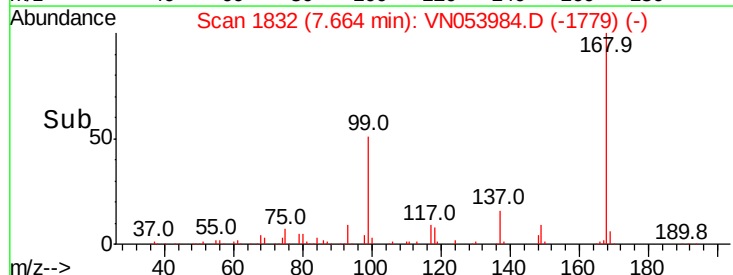
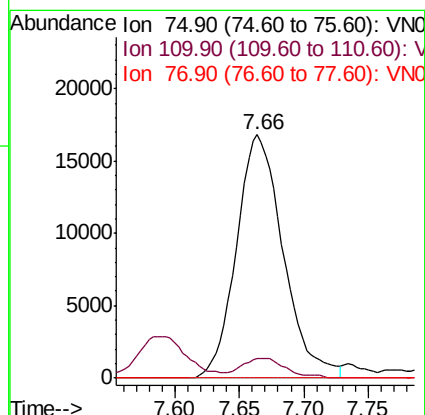
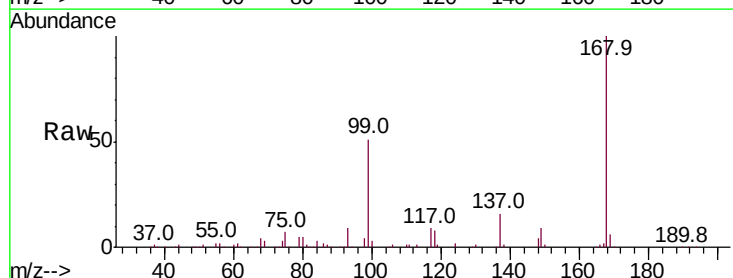
Instrument :
 MSVOA_N
 ClientSampleId :

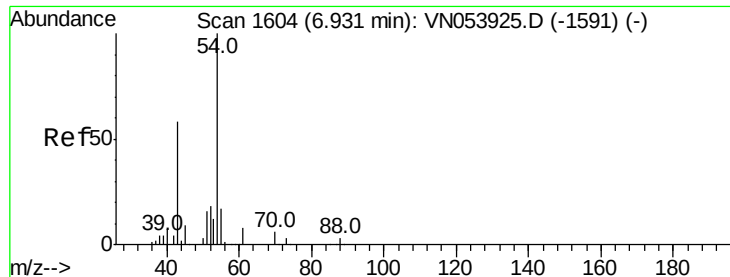
Tot Ion:113 Resp: 353533
 Ion Ratio Lower Upper
 113 100
 111 104.2 81.1 121.7
 192 21.7 18.8 28.2



#36
 1,1-Dichloropropene
 Concen: 4.115 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053984.D
 Acq: 27 Feb 2019 22:24

Tgt Ion: 75 Resp: 42471
 Ion Ratio Lower Upper
 75 100
 110 6.3 19.0 57.0#
 77 0.0 25.4 38.0#





#37

Ethyl Acetate

Concen: 3.452 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. -0.09 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

Instrument :
MSVOA_N
ClientSampled :

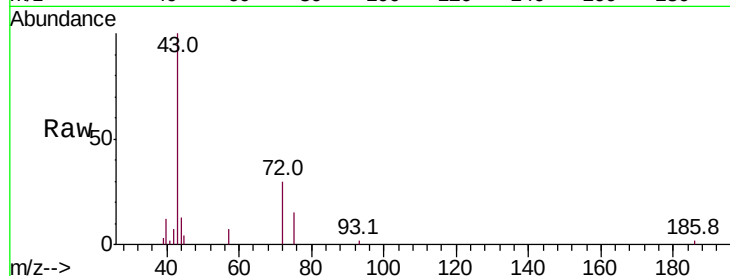
Tot Ion: 43 Resp: 25440

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

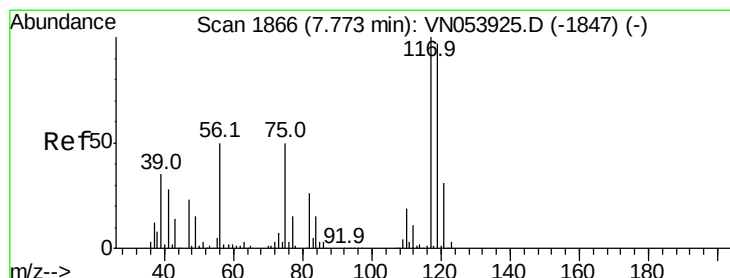
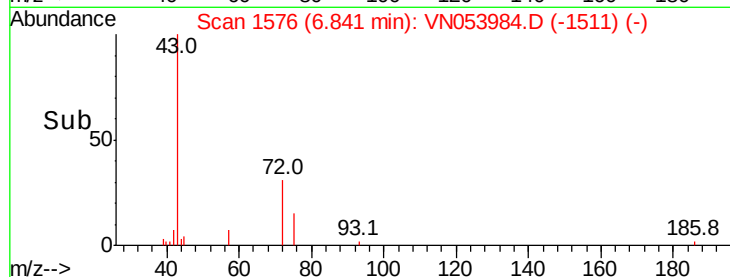
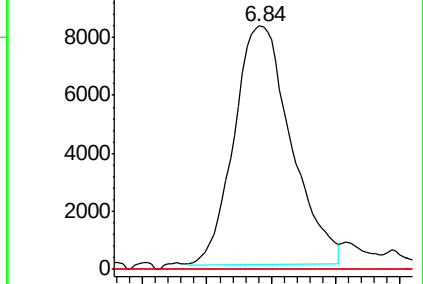
70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VN053984.D (-1576) (-)

Ion 60.90 (60.60 to 61.60): VN053984.D (-1576) (-)

Ion 70.00 (69.70 to 70.70): VN053984.D (-1576) (-)



#38

Carbon Tetrachloride

Concen: 4.919 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

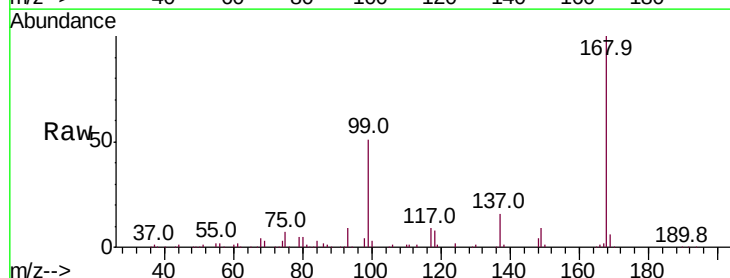
Tgt Ion: 117 Resp: 52803

Ion Ratio Lower Upper

117 100

119 5.9 76.2 114.2#

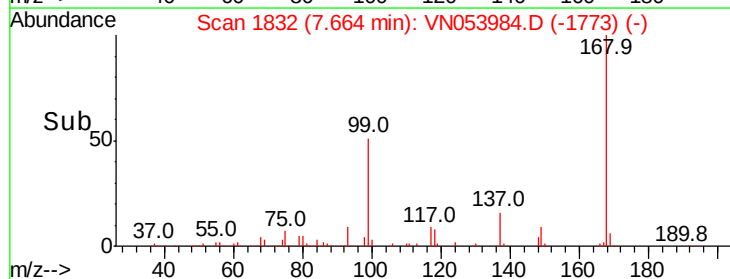
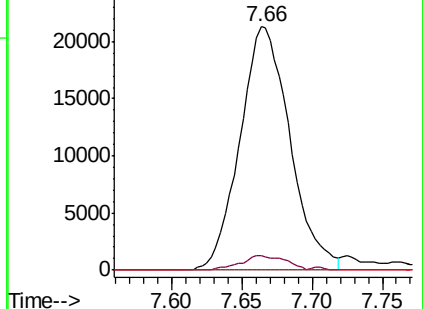
121 0.0 24.6 36.8#

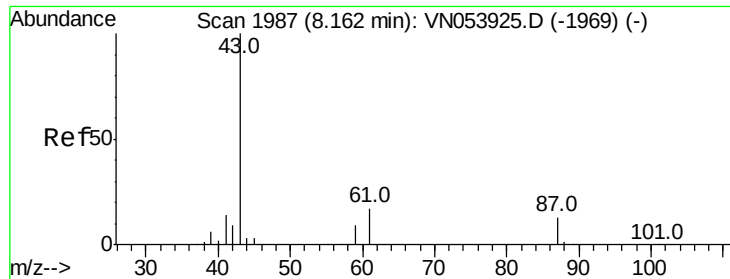


Abundance Ion 116.80 (116.50 to 117.50): VN053984.D (-1832) (-)

Ion 118.80 (118.50 to 119.50): VN053984.D (-1832) (-)

Ion 120.80 (120.50 to 121.50): VN053984.D (-1832) (-)





#43

Isopropyl Acetate

Concen: 20.937 ug/l

RT: 8.34 min Scan# 2042

Delta R.T. 0.18 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

Instrument :

MSVOA_N

ClientSampled :

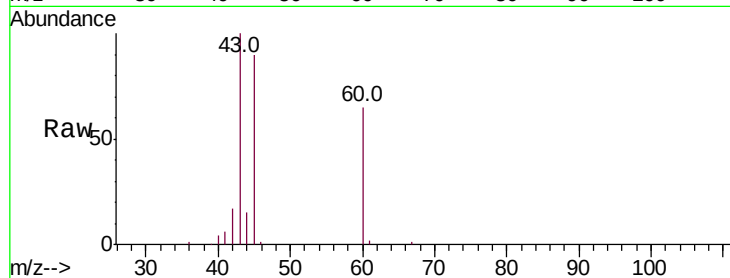
Tot Ion: 43 Resp: 260514

Ion Ratio Lower Upper

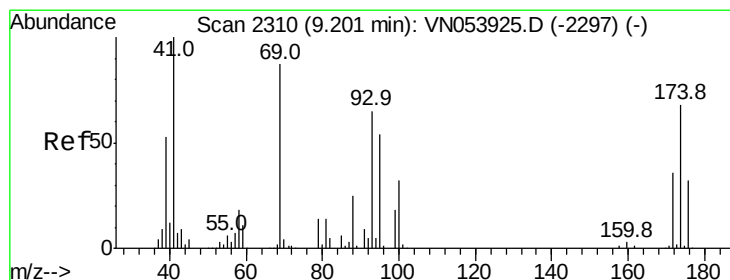
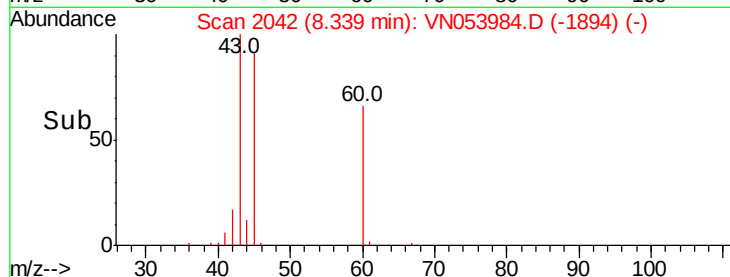
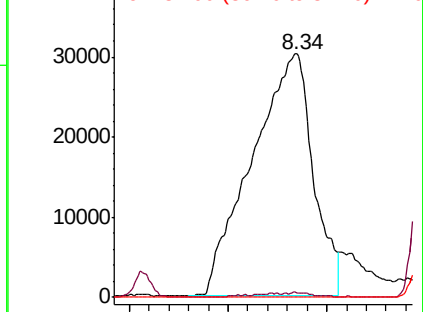
43 100

61 0.0 17.4 26.0#

87 0.0 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.903 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

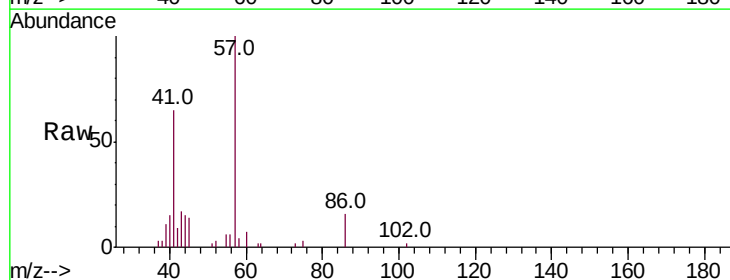
Tgt Ion: 41 Resp: 10889

Ion Ratio Lower Upper

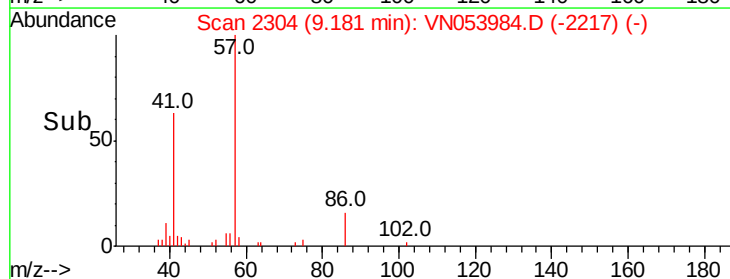
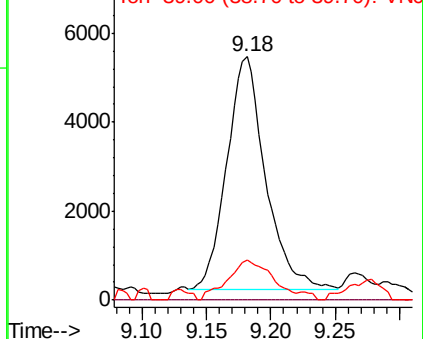
41 100

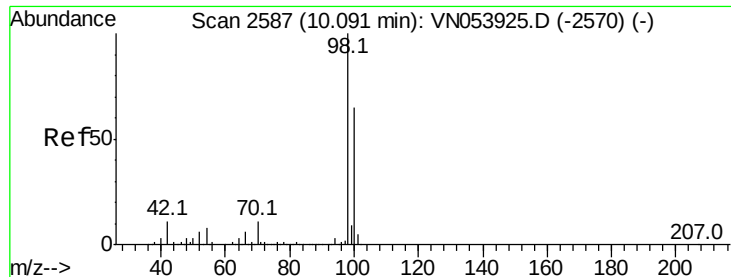
69 0.0 74.8 112.2#

39 19.8 39.0 58.6#



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

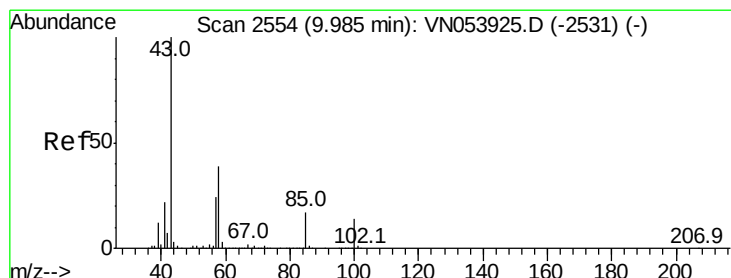
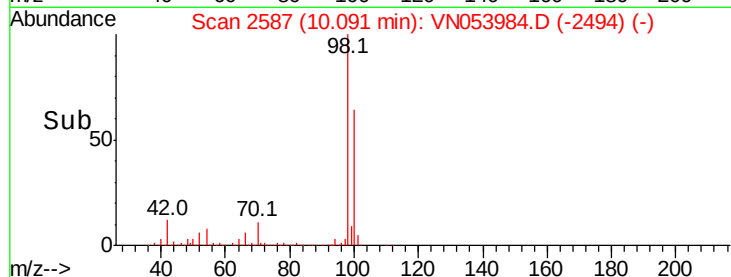
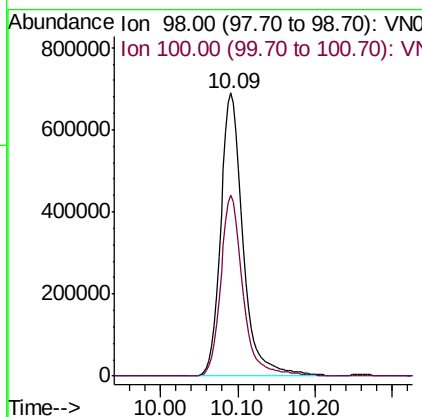
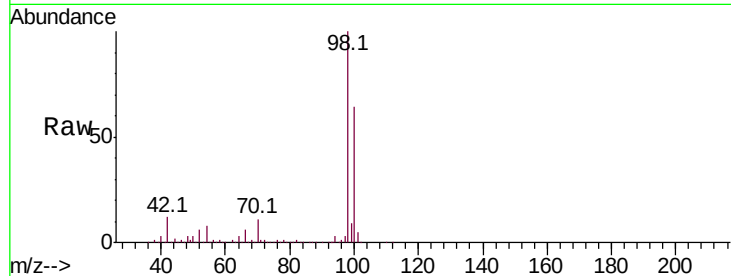




#50
Toluene-d8
Concen: 52.216 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

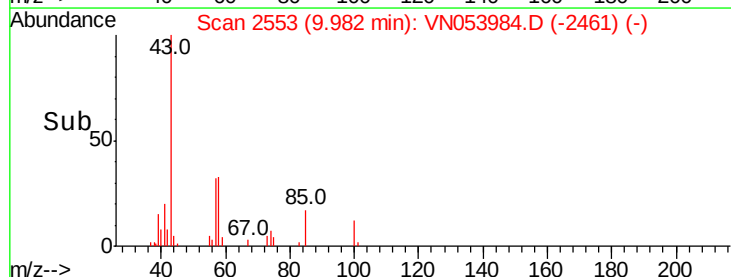
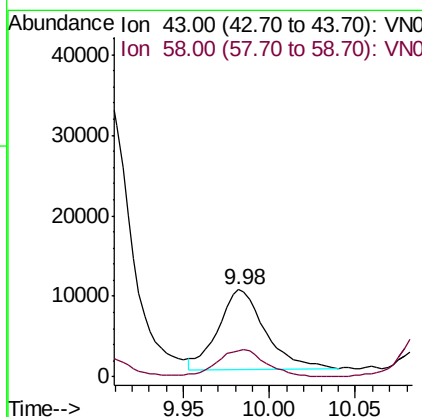
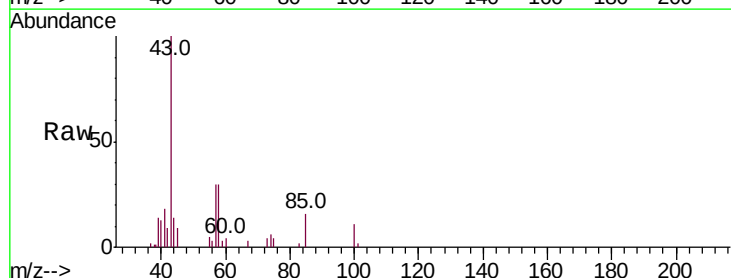
Instrument :
MSVOA_N
ClientSampleId :

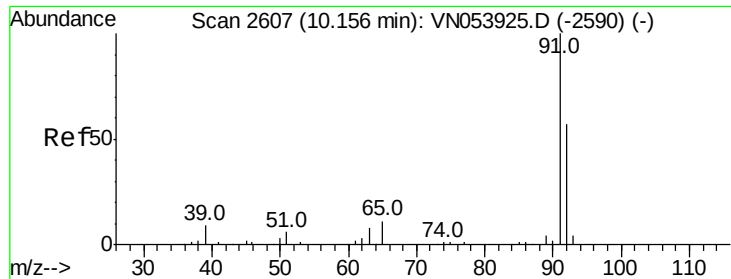
Tot Ion: 98 Resp: 1394945
Ion Ratio Lower Upper
98 100
100 63.5 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 2.917 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

Tgt Ion: 43 Resp: 18651
Ion Ratio Lower Upper
43 100
58 35.9 32.7 49.1





#52

Toluene

Concen: 58.374 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

Instrument :

MSVOA_N

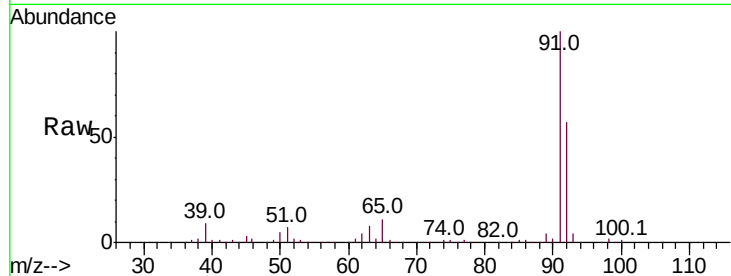
ClientSampleId :

Tot Ion: 92 Resp: 1089805

Ion Ratio Lower Upper

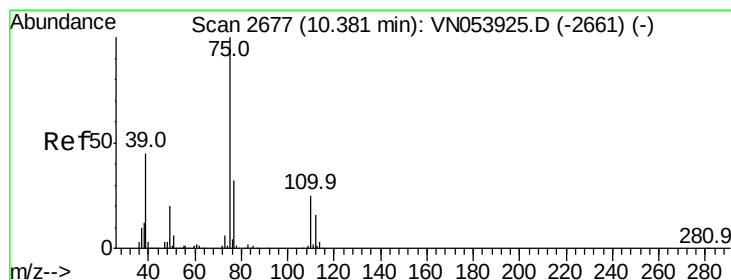
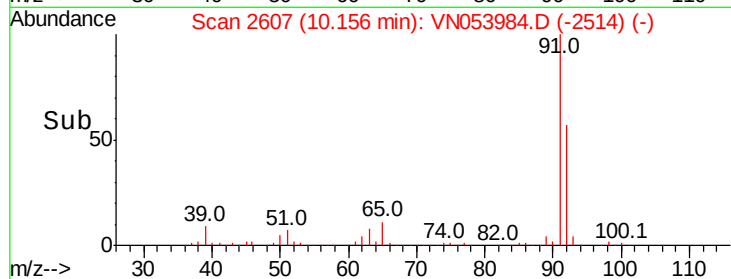
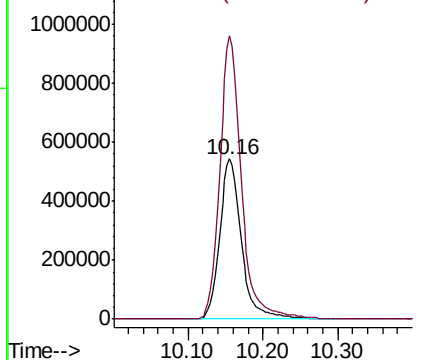
92 100

91 175.4 138.4 207.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 1.166 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.23 min

Lab File: VN053984.D

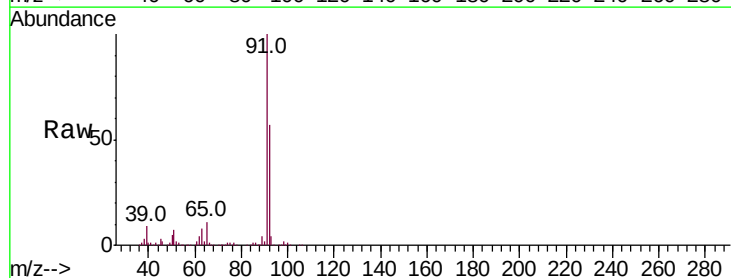
Acq: 27 Feb 2019 22:24

Tgt Ion: 75 Resp: 11870

Ion Ratio Lower Upper

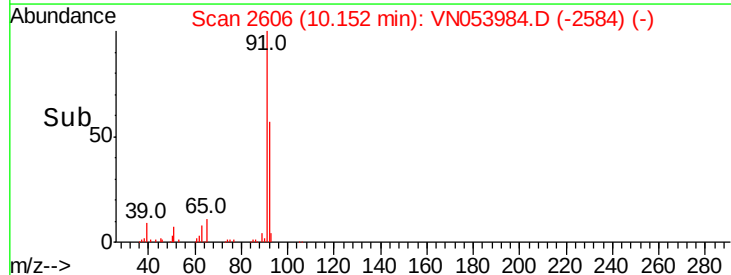
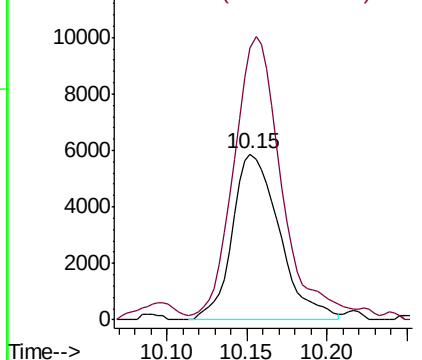
75 100

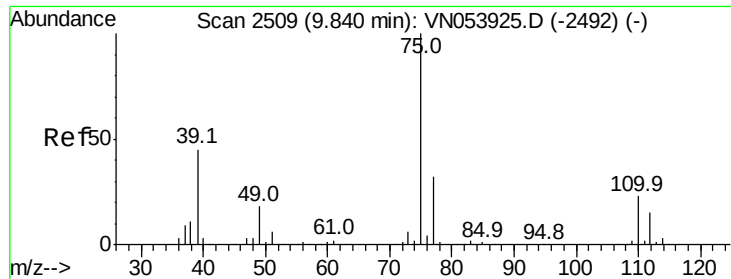
77 161.3 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#54

cis-1,3-Dichloropropene

Concen: 2.811 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :

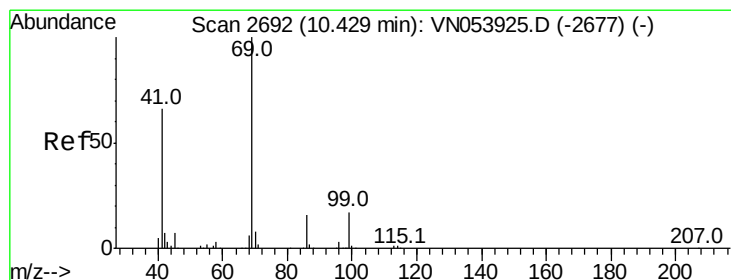
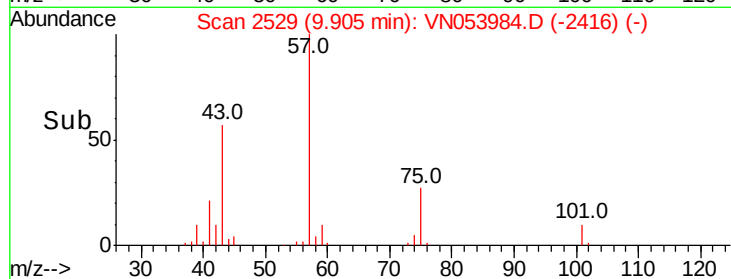
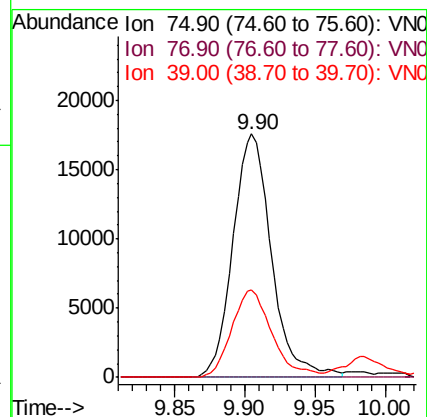
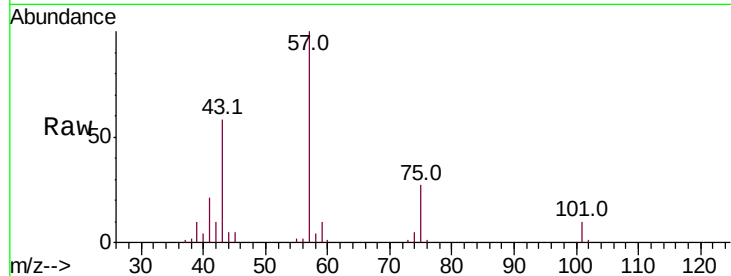
Tot Ion: 75 Resp: 33749

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 35.9 31.4 47.0



#56

Ethyl methacrylate

Concen: 2.069 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

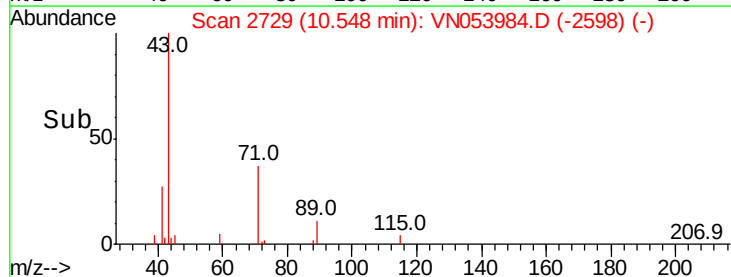
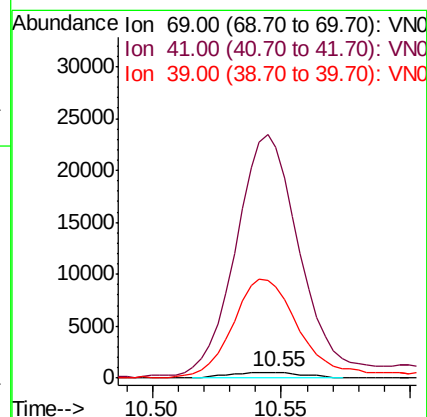
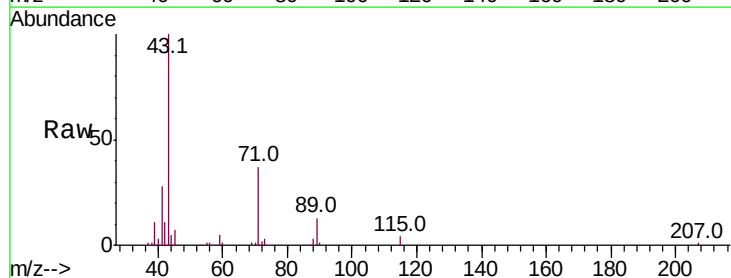
Tgt Ion: 69 Resp: 1083

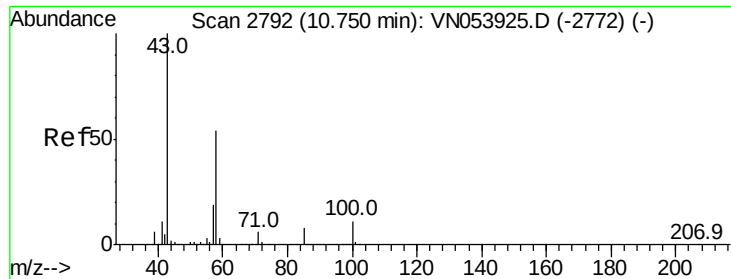
Ion Ratio Lower Upper

69 100

41 3813.5 47.5 71.3#

39 1578.8 23.4 35.0#

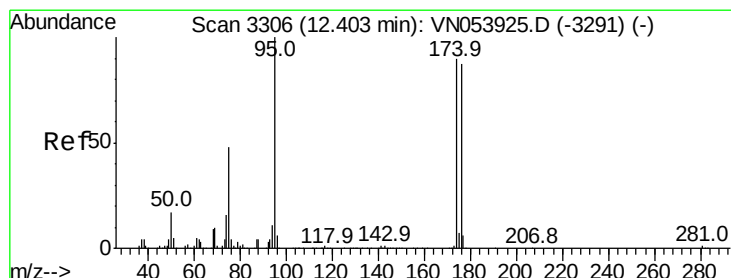
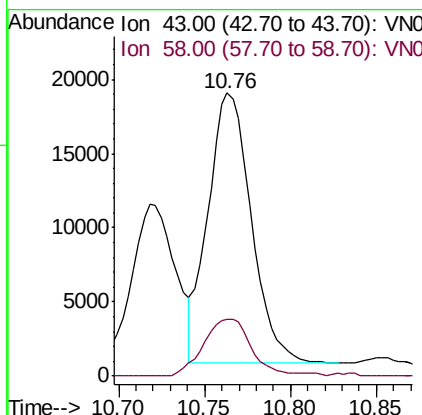
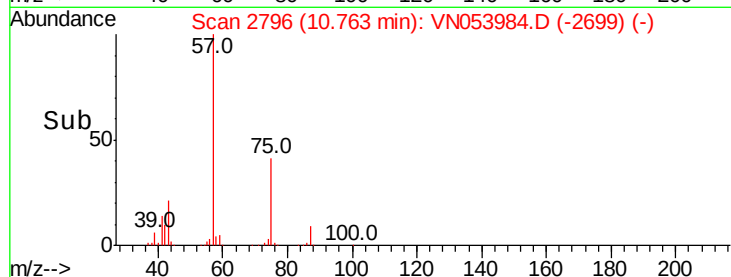
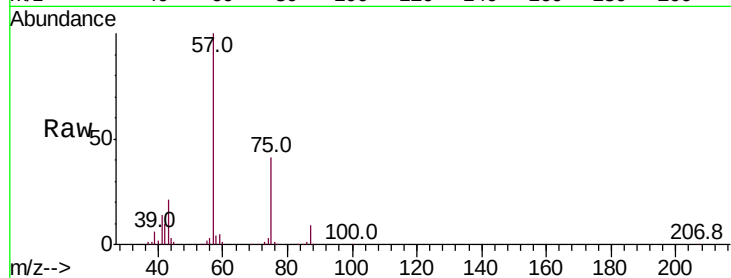




#59
2-Hexanone
Concen: 7.709 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

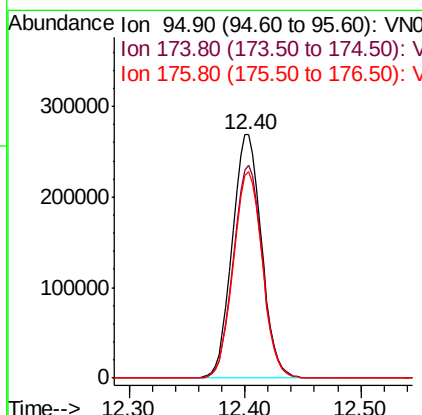
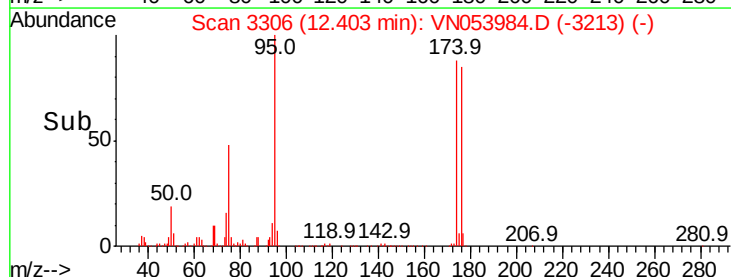
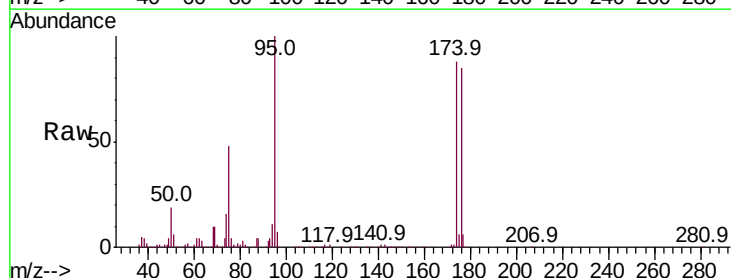
Instrument :
MSVOA_N
ClientSampled :

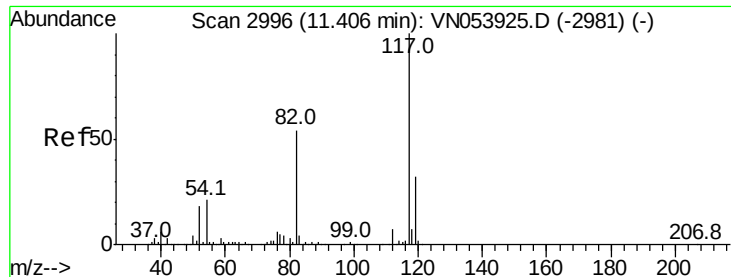
Tot Ion: 43 Resp: 32058
Ion Ratio Lower Upper
43 100
58 23.3 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 52.562 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

Tgt Ion: 95 Resp: 467840
Ion Ratio Lower Upper
95 100
174 86.9 0.0 188.8
176 84.2 0.0 182.6

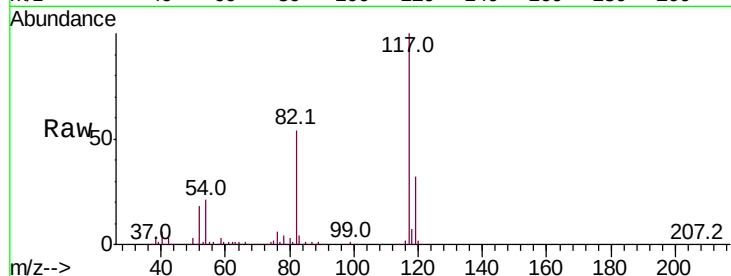




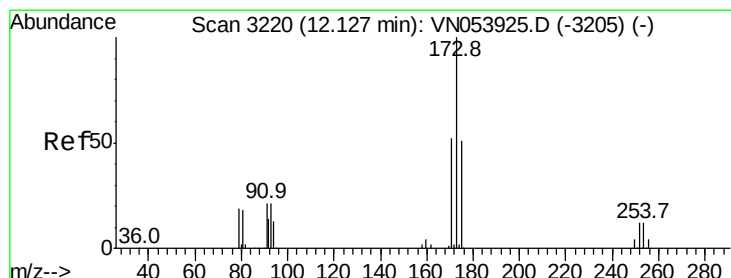
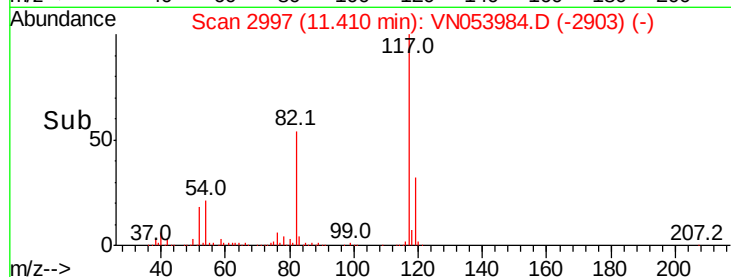
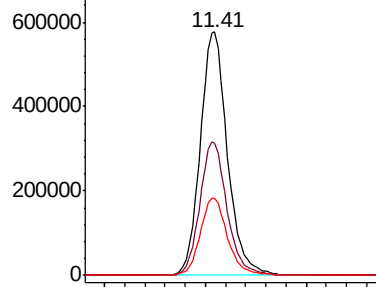
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 1078705
Ion Ratio Lower Upper
117 100
82 54.5 41.4 62.2
119 31.9 25.3 37.9

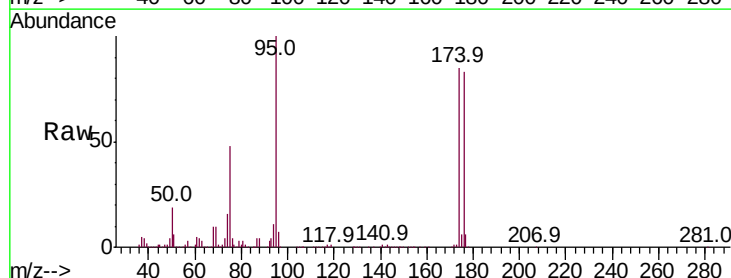


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

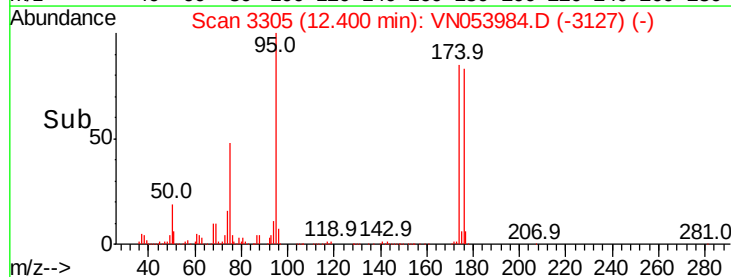
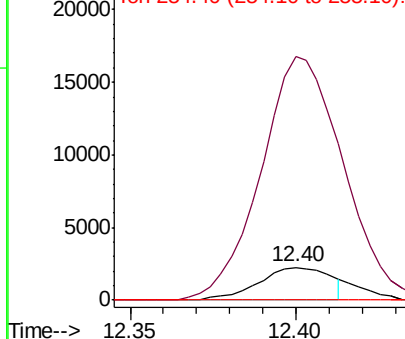


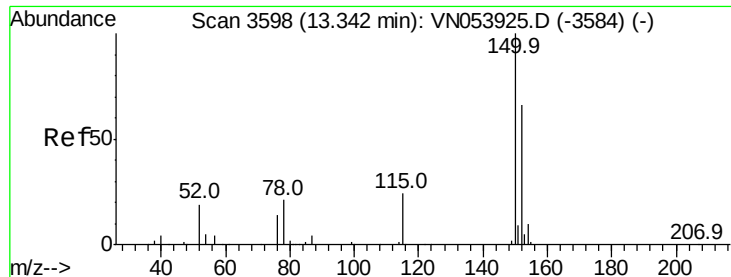
#71
Bromoform
Concen: 0.591 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

Tgt Ion:173 Resp: 3373
Ion Ratio Lower Upper
173 100
175 730.2 24.3 72.8#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

Instrument :

MSVOA_N

ClientSampled :

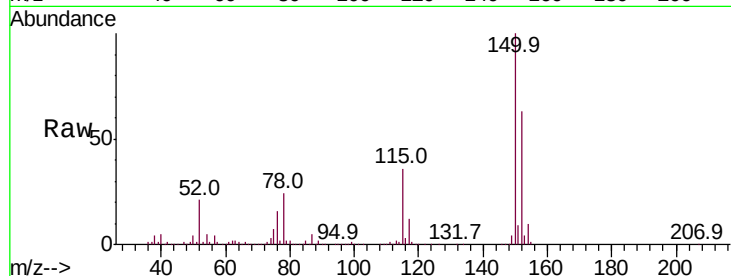
Tot Ion:152 Resp: 407226

Ion Ratio Lower Upper

152 100

115 57.3 27.2 81.6

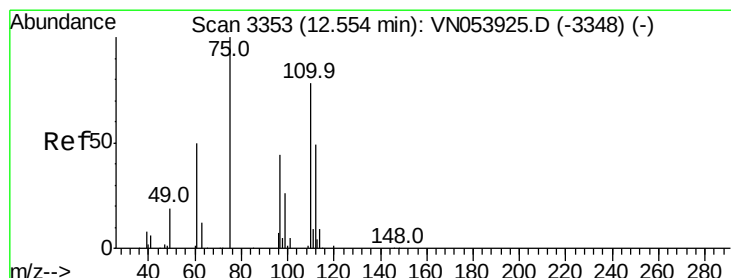
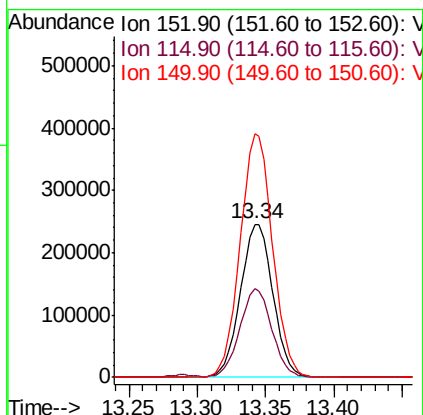
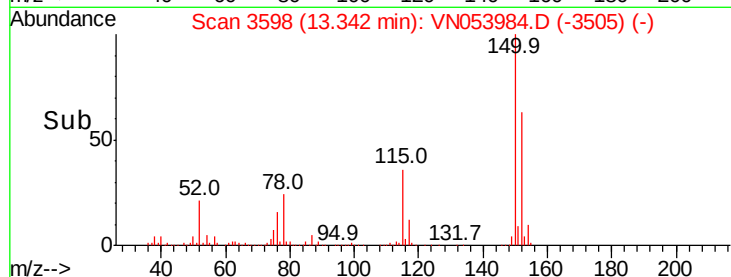
150 157.8 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 34.514 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053984.D

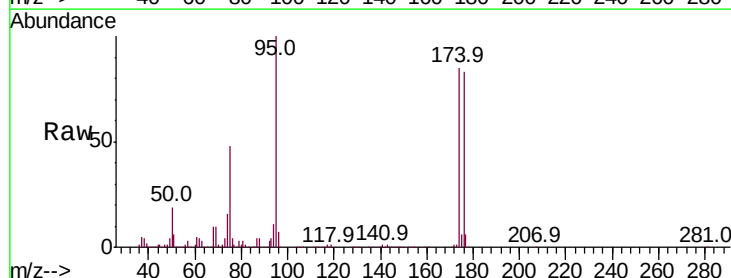
Acq: 27 Feb 2019 22:24

Tgt Ion: 75 Resp: 225464

Ion Ratio Lower Upper

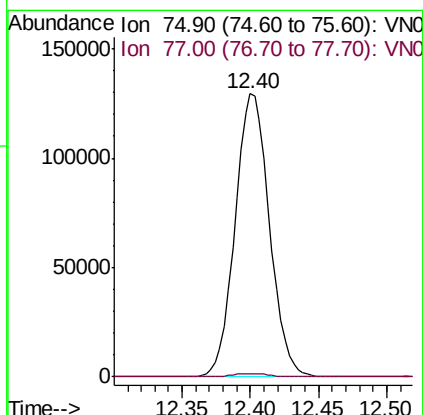
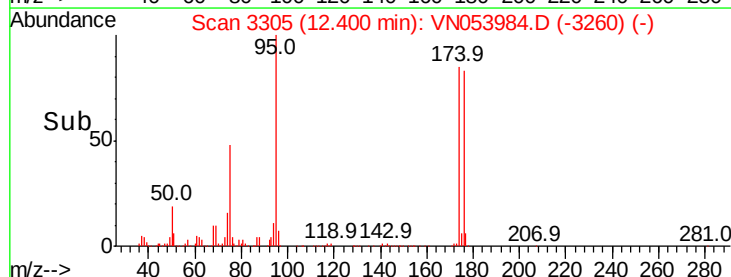
75 100

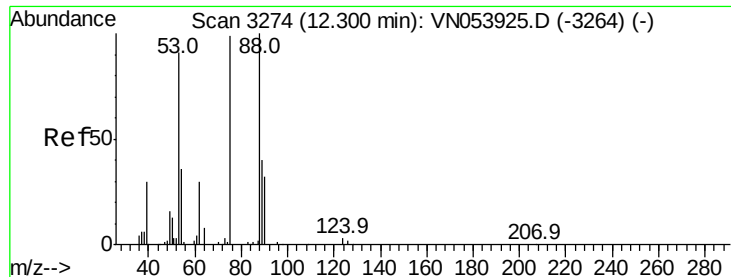
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

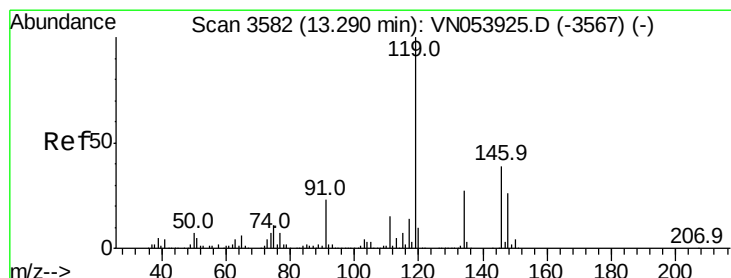
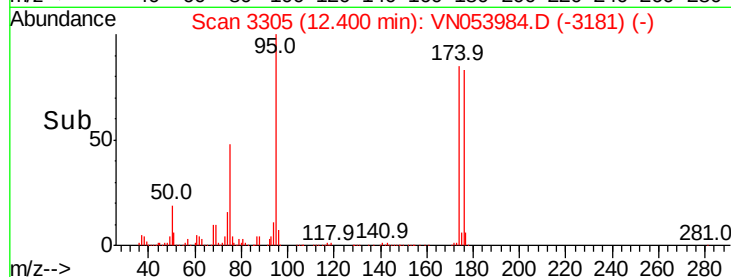
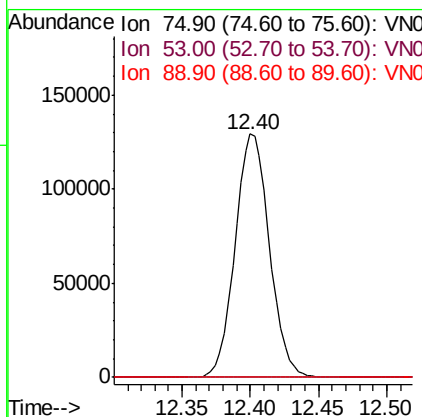
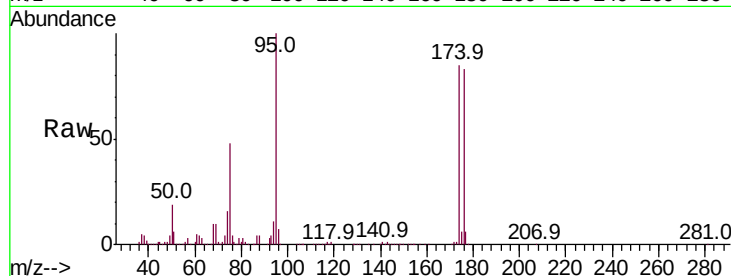




#81
trans-1,4-Dichloro-2-butene
Concen: 109.084 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

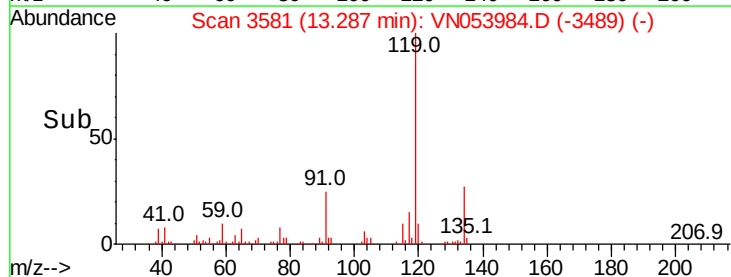
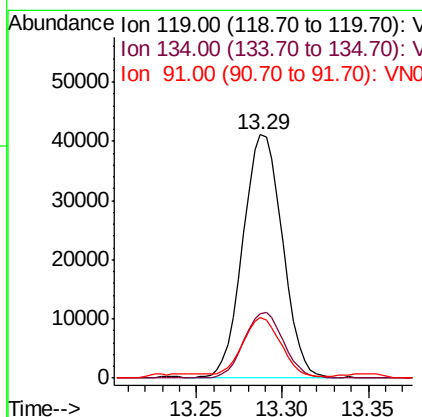
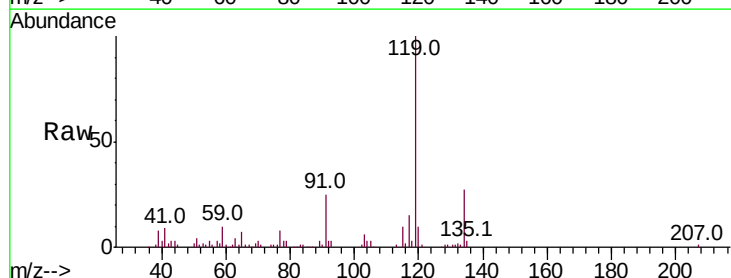
Instrument :
MSVOA_N
ClientSampleId :

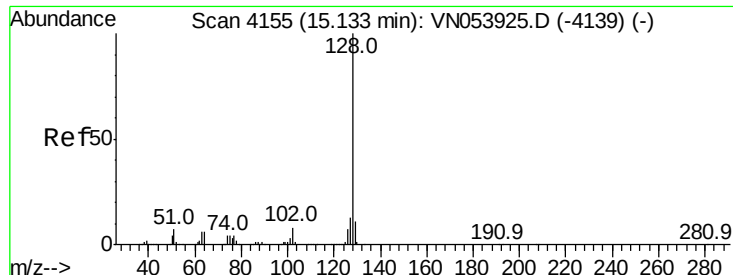
Tot Ion: 75 Resp: 225464
Ion Ratio Lower Upper
75 100
53 0.1 68.6 102.8#
89 0.0 35.3 52.9#



#86
p-Isopropyltoluene
Concen: 2.493 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.00 min
Lab File: VN053984.D
Acq: 27 Feb 2019 22:24

Tgt Ion: 119 Resp: 66081
Ion Ratio Lower Upper
119 100
134 26.8 13.5 40.4
91 24.9 10.9 32.6





#95

Naphthalene

Concen: 3.269 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

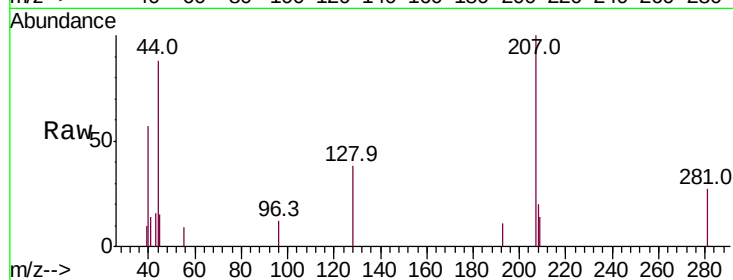
Lab File: VN053984.D

Acq: 27 Feb 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :



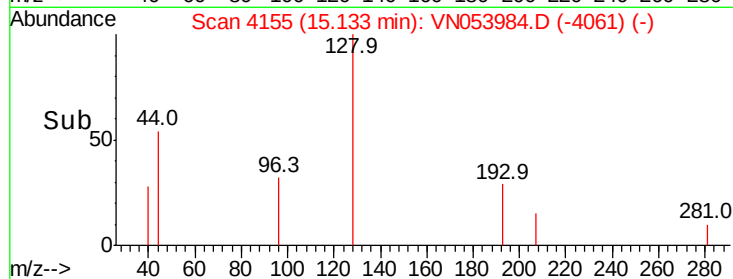
Tot Ion:128 Resp: 993

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

