

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010919\
 Data File : VN053326.D
 Acq On : 9 Jan 2019 17:58
 Operator : MD\SY
 Sample : K1087-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-448-C

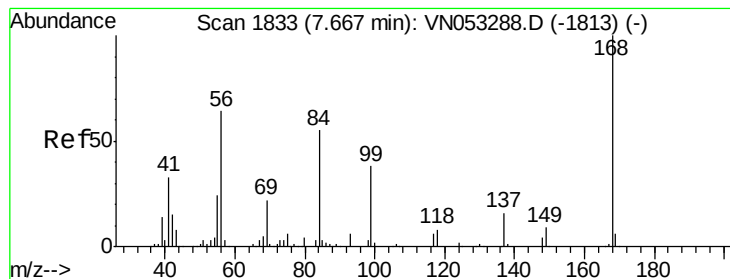
Quant Time: Jan 10 03:06:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 07 09:34:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1168011	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1820401	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1700282	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	713508	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	591180	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	7.59	113	511967	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
50) Toluene-d8	10.09	98	2260021	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.40	95	784256	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	16900	2.425	ug/l	95
13) Acrolein	3.61	56	232	0.252	ug/l #	32
16) Acetone	3.82	43	27904	7.372	ug/l	99
18) Methyl Acetate	4.33	43	7419	0.675	ug/l #	79
20) Methylene Chloride	4.55	84	71066	5.445	ug/l	97
25) 2-Butanone	6.83	43	1559	0.313	ug/l #	47
29) Tetrahydrofuran	7.23	42	1511	0.459	ug/l #	42
31) Cyclohexane	7.66	56	17418	0.648	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	74858	4.405	ug/l #	49
38) Carbon Tetrachloride	7.66	117	99589	6.349	ug/l #	16
43) Isopropyl Acetate	8.17	43	58536	2.688	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	3200	0.235	ug/l #	43
48) Methyl methacrylate	9.18	41	18349	1.855	ug/l #	12
49) 1,4-Dioxane	9.26	88	333	3.159	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	19775	1.806	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	132647	6.783	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	25637	1.309	ug/l #	42
59) 2-Hexanone	10.76	43	338353	45.094	ug/l #	50
71) Bromoform	12.40	173	4864	0.533	ug/l #	1
74) N-amyl acetate	11.88	43	41200	2.597	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	366992	35.264	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	366992	103.754	ug/l #	14

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampled :

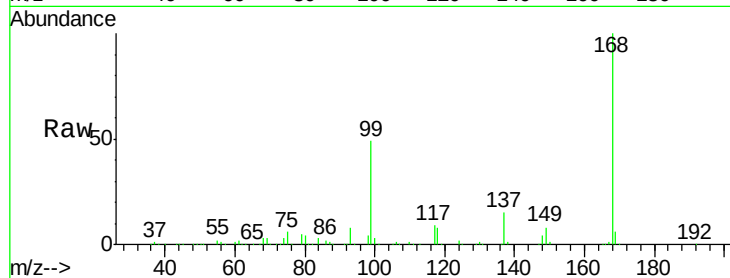
MH-448-C

Tot Ion:168 Resp: 1168011

Ion Ratio Lower Upper

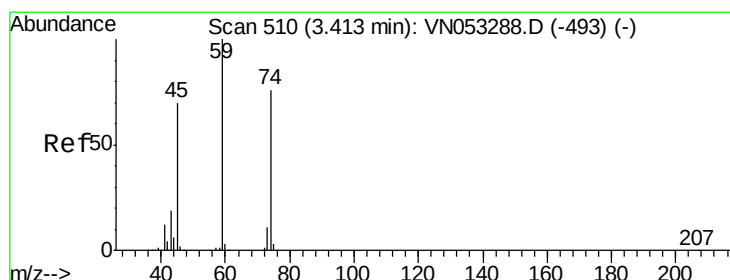
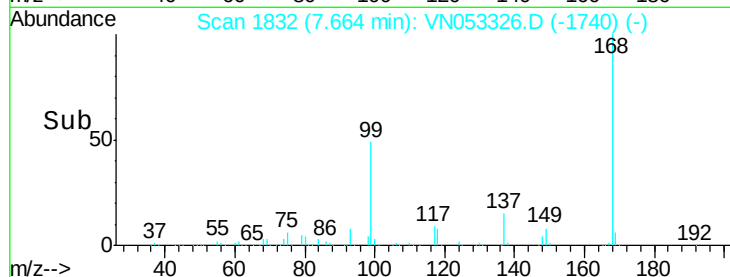
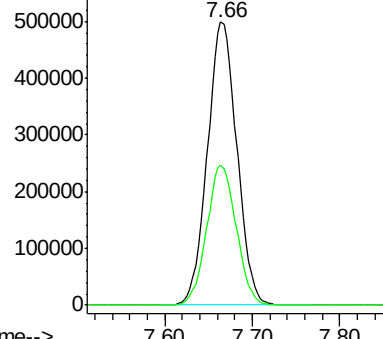
168 100

99 49.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 2.425 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN053326.D

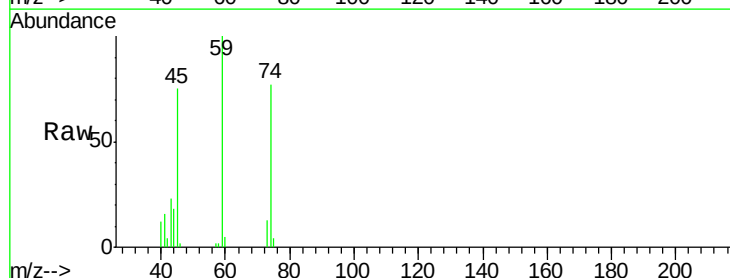
Acq: 9 Jan 2019 17:58

Tgt Ion: 74 Resp: 16900

Ion Ratio Lower Upper

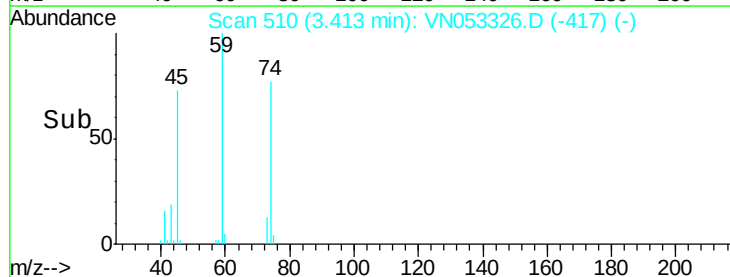
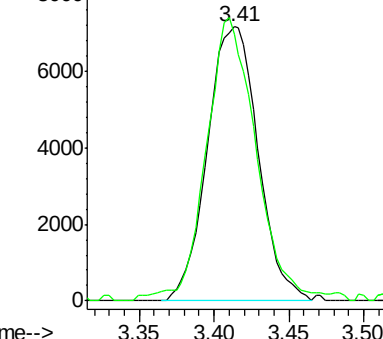
74 100

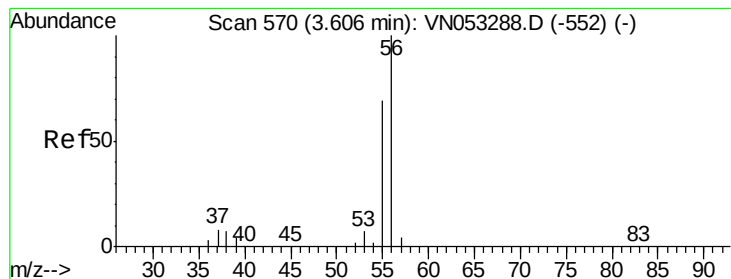
45 101.6 48.3 144.9



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#13

Acrolein

Concen: 0.252 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampled :

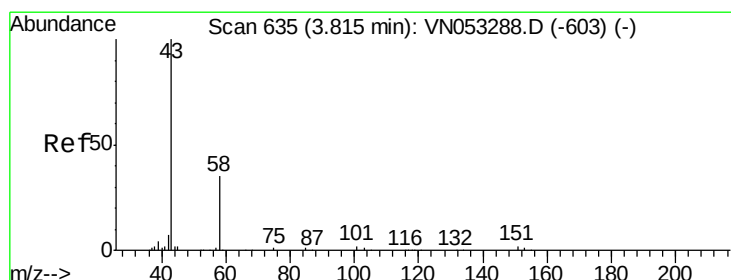
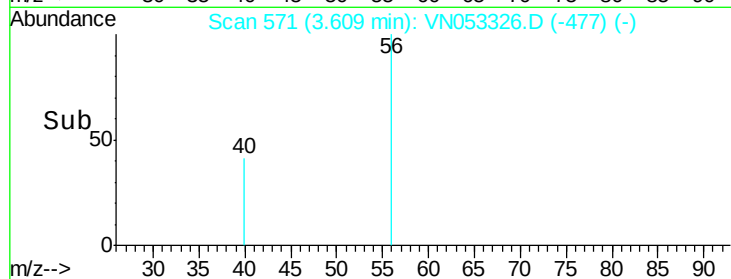
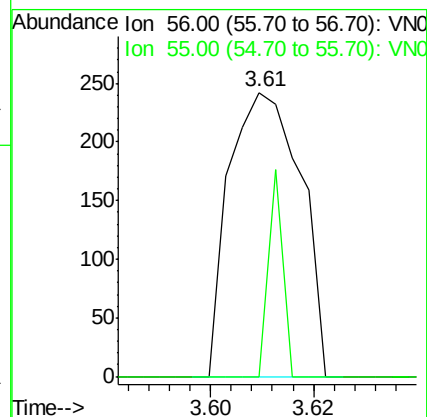
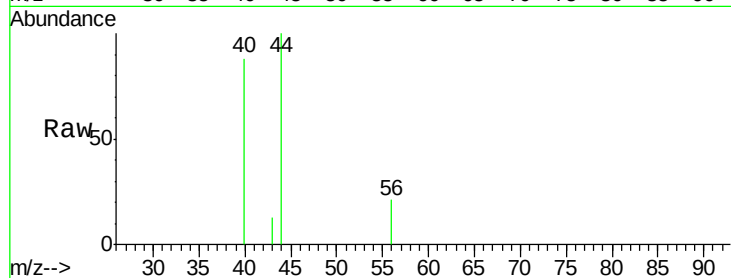
MH-448-C

Tot Ion: 56 Resp: 232

Ion Ratio Lower Upper

56 100

55 14.7 56.3 84.5#



#16

Acetone

Concen: 7.372 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053326.D

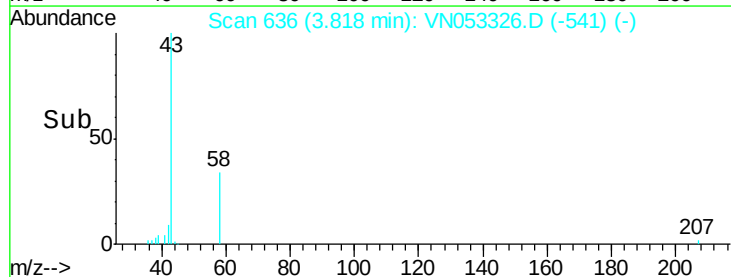
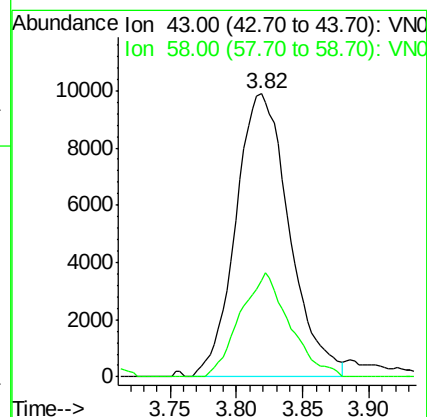
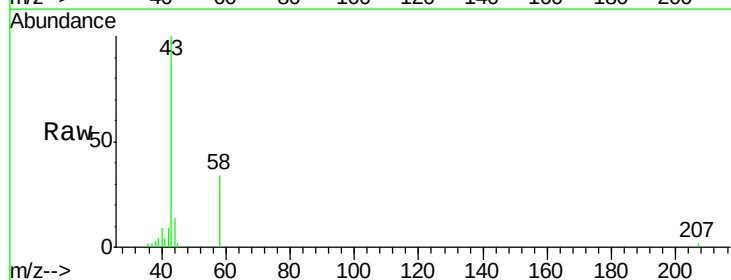
Acq: 9 Jan 2019 17:58

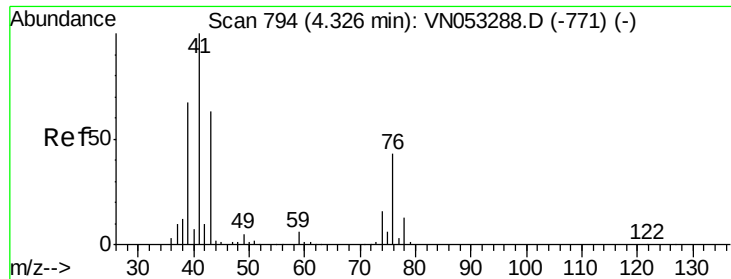
Tgt Ion: 43 Resp: 27904

Ion Ratio Lower Upper

43 100

58 34.0 27.8 41.6

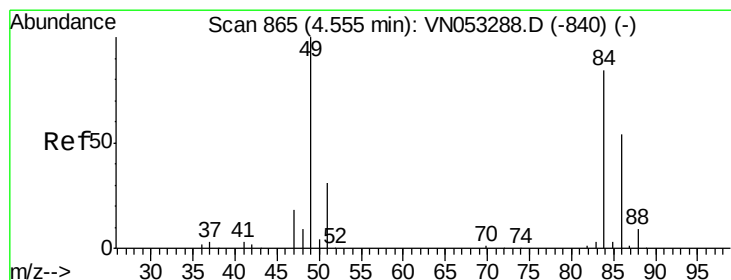
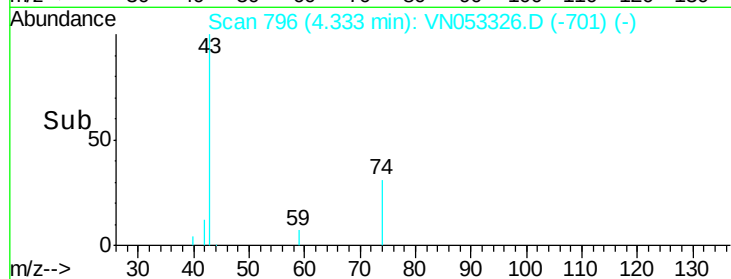
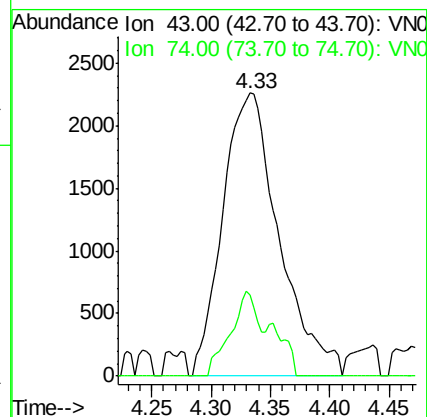
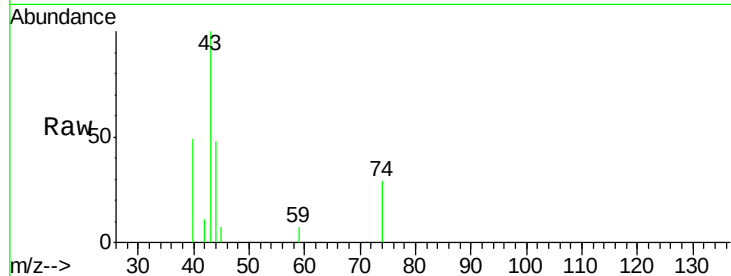




#18
Methyl Acetate
Concen: 0.675 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

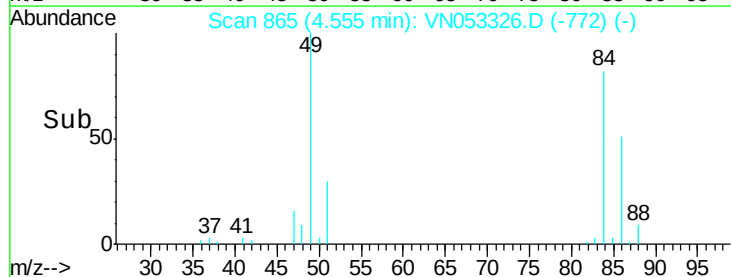
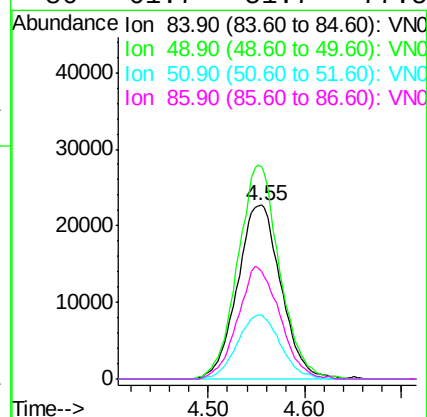
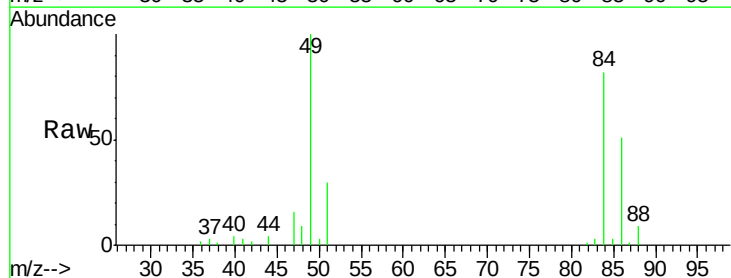
Instrument :
MSVOA_N
ClientSampled :
MH-448-C

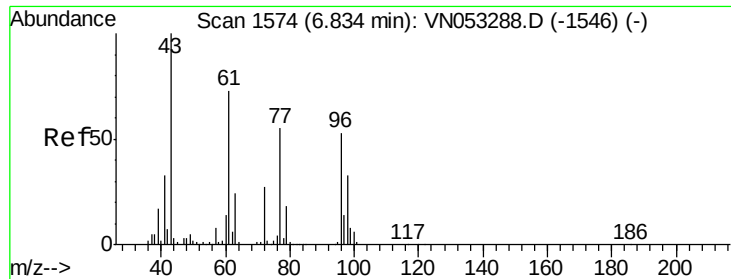
Tot Ion: 43 Resp: 7419
Ion Ratio Lower Upper
43 100
74 14.4 19.8 29.8#



#20
Methylene Chloride
Concen: 5.445 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

Tgt Ion: 84 Resp: 71066
Ion Ratio Lower Upper
84 100
49 121.9 95.3 142.9
51 36.8 29.0 43.6
86 61.7 51.7 77.5





#25

2-Butanone

Concen: 0.313 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampled :

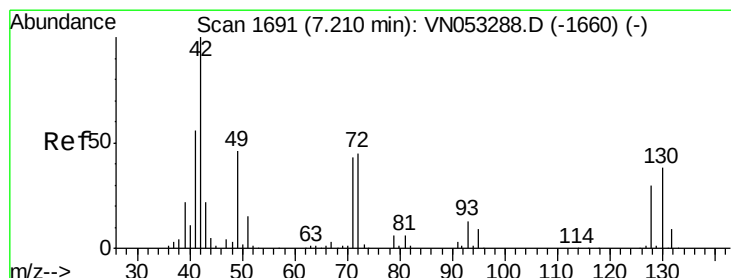
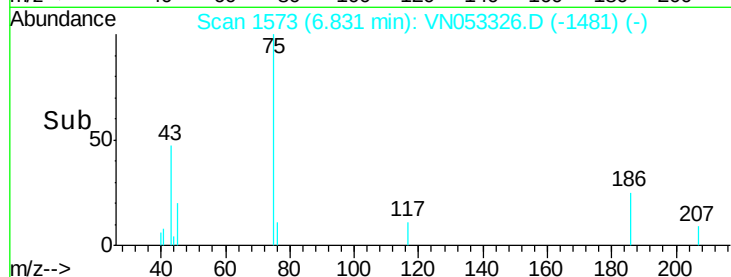
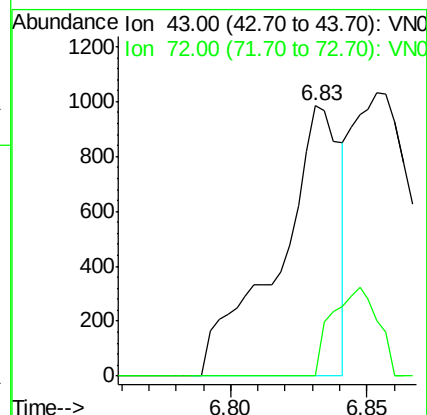
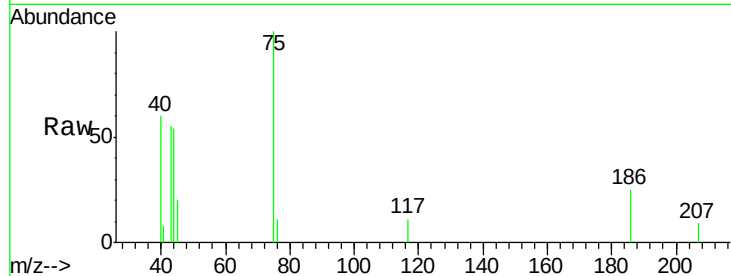
MH-448-C

Tot Ion: 43 Resp: 1559

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.459 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

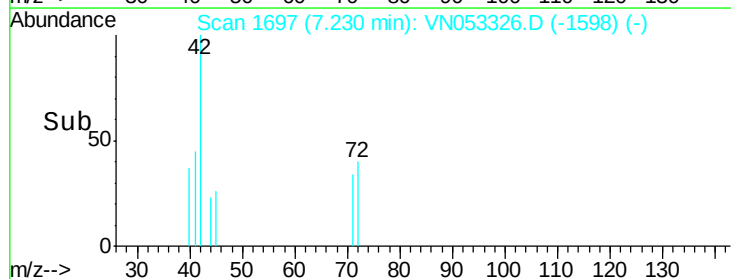
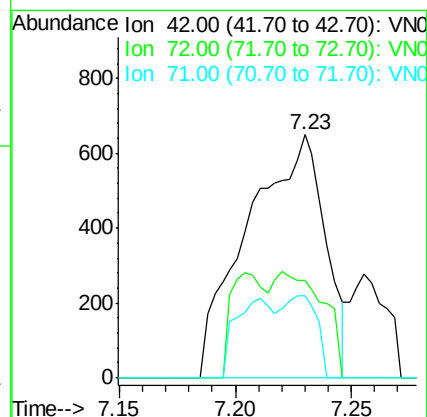
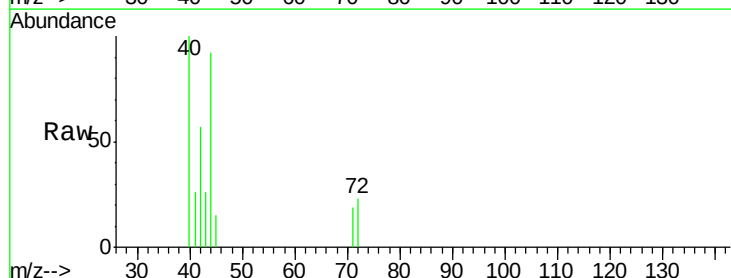
Tgt Ion: 42 Resp: 1511

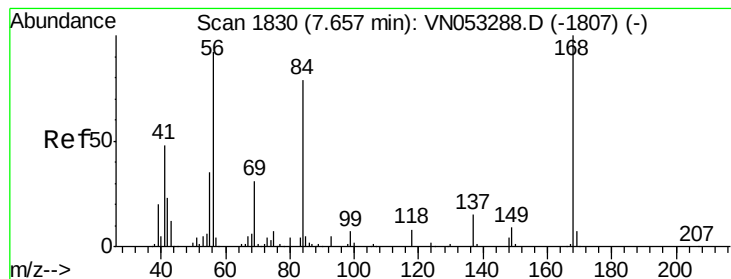
Ion Ratio Lower Upper

42 100

72 0.0 35.6 53.4#

71 12.6 33.8 50.8#





#31

Cyclohexane

Concen: 0.648 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

MH-448-C

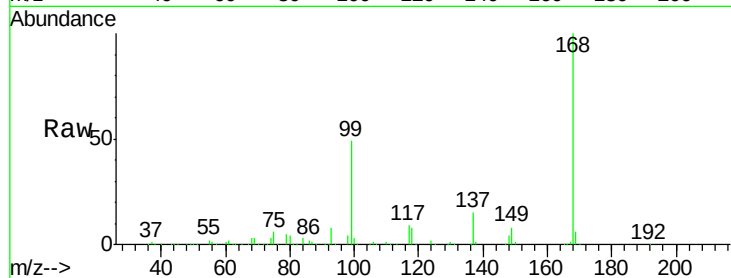
Tot Ion: 56 Resp: 17418

Ion Ratio Lower Upper

56 100

69 207.2 26.7 40.1#

84 188.9 68.2 102.4#

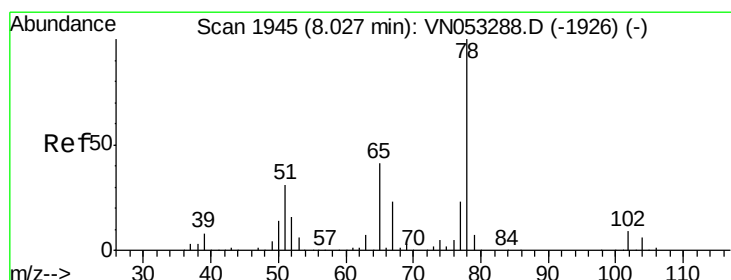
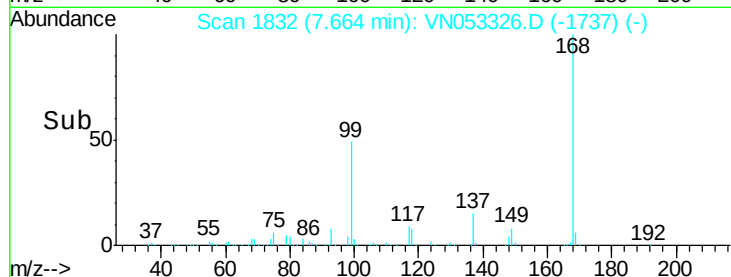
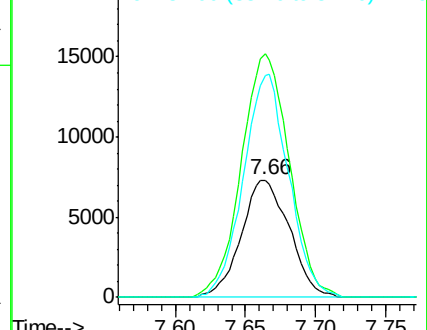


Abundance

Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053326.D

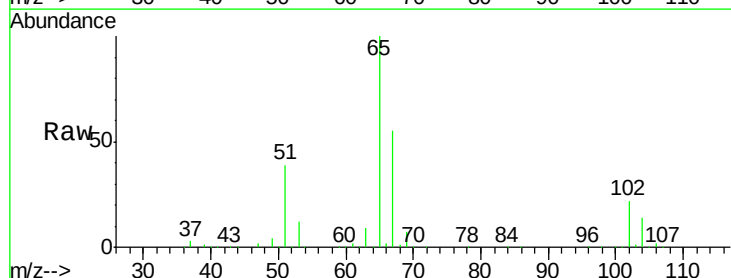
Acq: 9 Jan 2019 17:58

Tgt Ion: 65 Resp: 591180

Ion Ratio Lower Upper

65 100

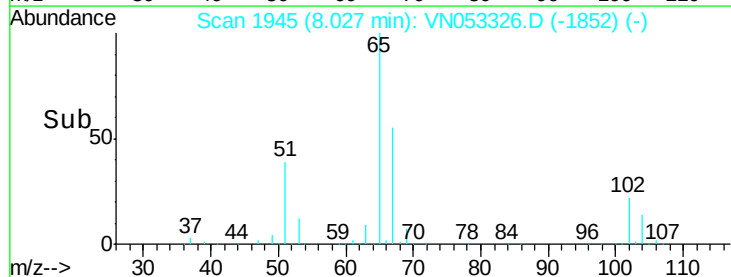
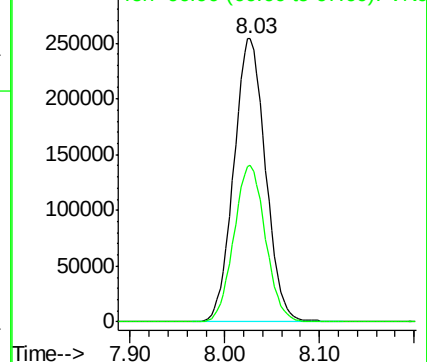
67 55.0 0.0 111.0

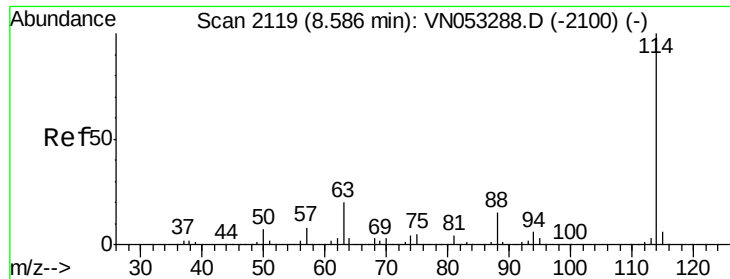


Abundance

Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

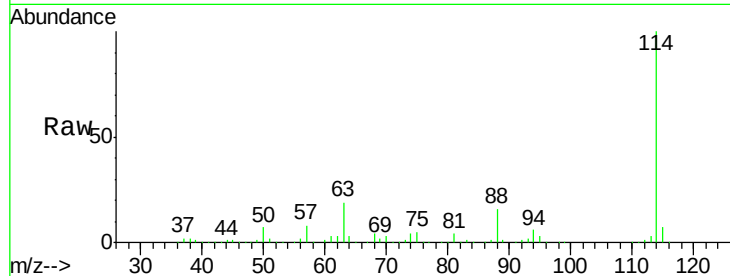




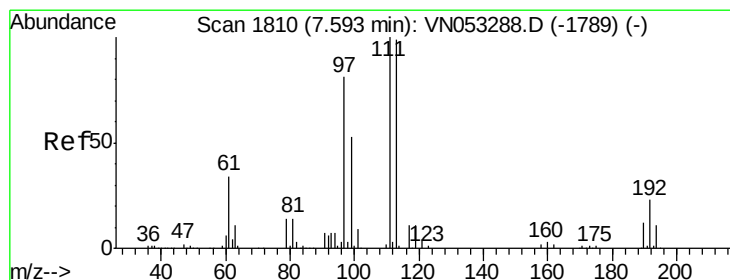
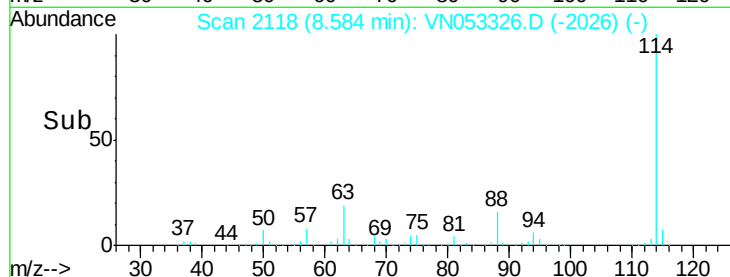
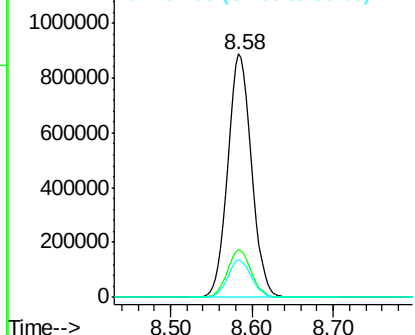
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

Instrument :
MSVOA_N
ClientSampleId :
MH-448-C

Tot Ion:114 Resp: 1820401
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.0
88 15.5 0.0 30.8

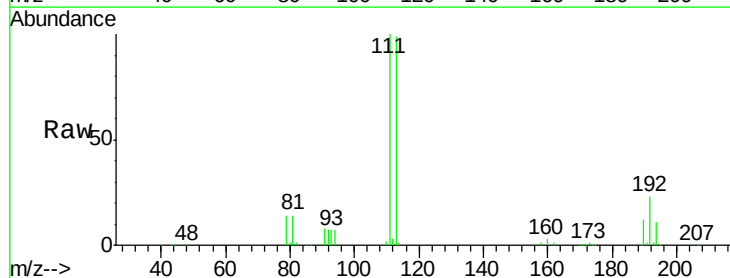


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

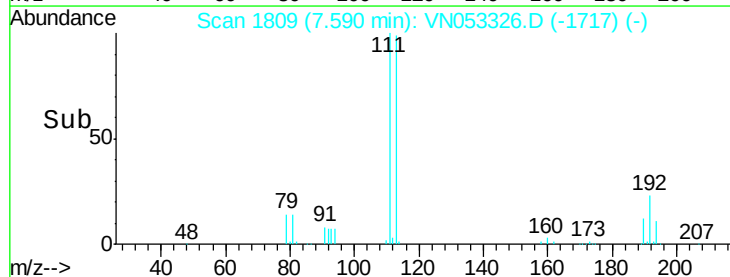
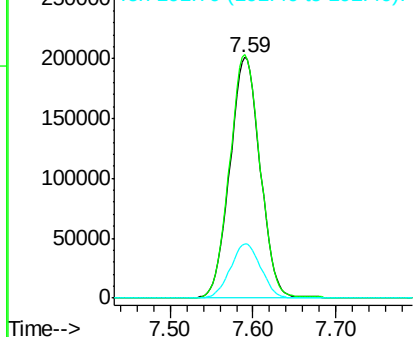


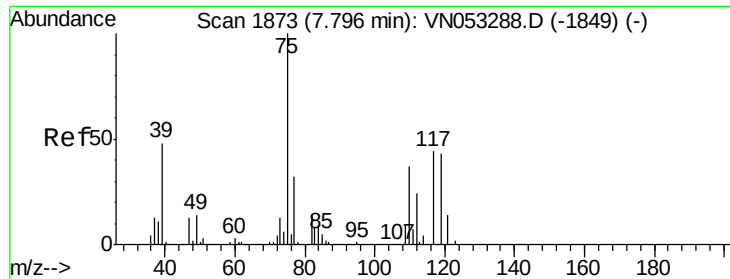
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

Tgt Ion:113 Resp: 511967
Ion Ratio Lower Upper
113 100
111 101.0 81.4 122.2
192 22.6 17.9 26.9



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.405 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

MH-448-C

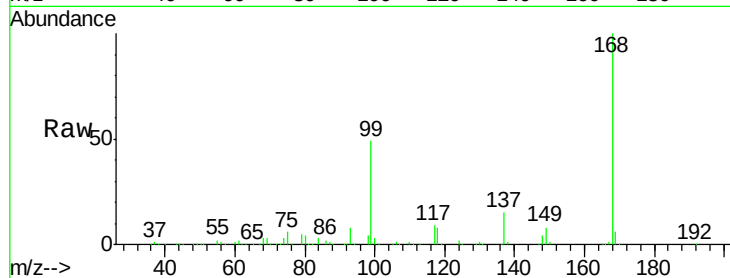
Tot Ion: 75 Resp: 74858

Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.0#

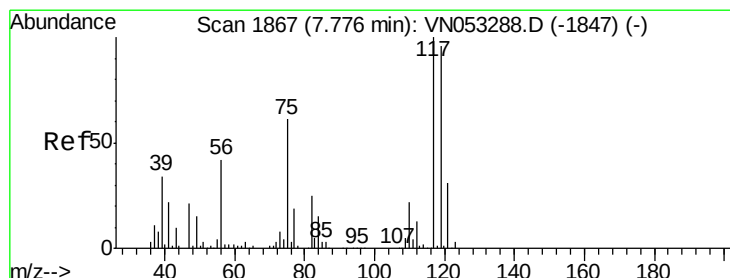
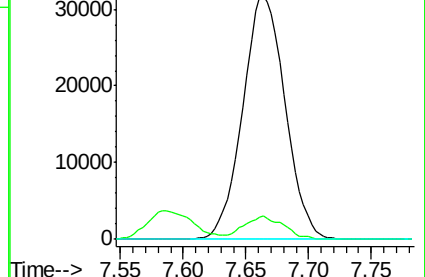
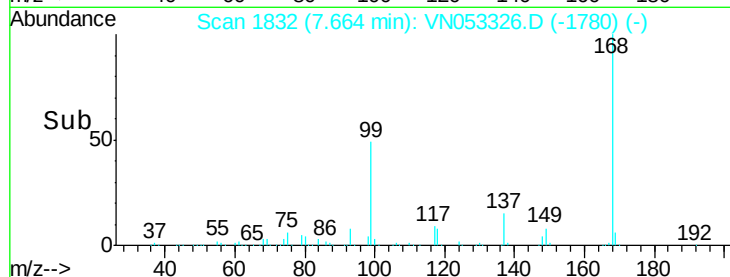
77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VN053326.D (-1780) (-)

Ion 109.90 (109.60 to 110.60): VN053326.D (-1780) (-)

Ion 76.90 (76.60 to 77.60): VN053326.D (-1780) (-)



#38

Carbon Tetrachloride

Concen: 6.349 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

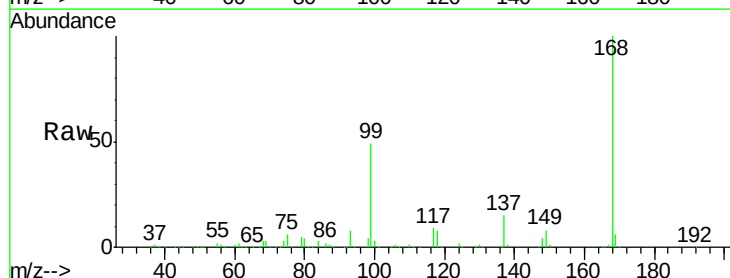
Tgt Ion: 117 Resp: 99589

Ion Ratio Lower Upper

117 100

119 5.2 76.6 115.0#

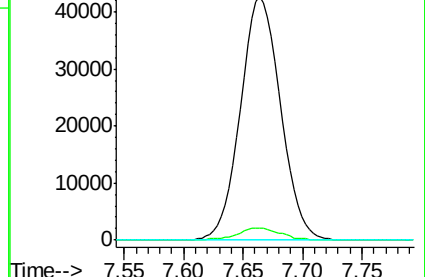
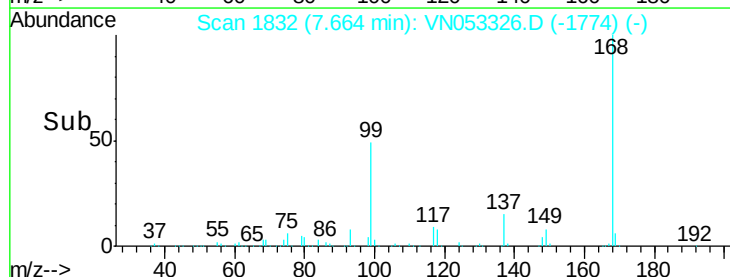
121 0.0 25.0 37.4#

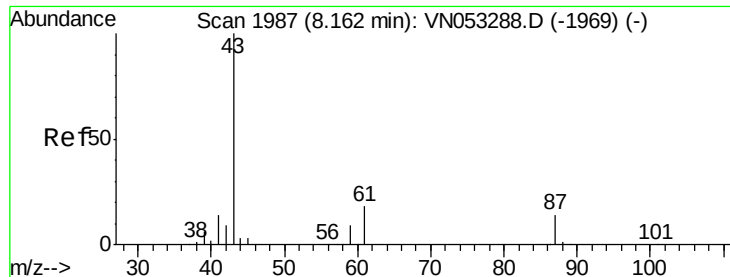


Abundance Ion 116.80 (116.50 to 117.50): VN053326.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN053326.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN053326.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 2.688 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

MH-448-C

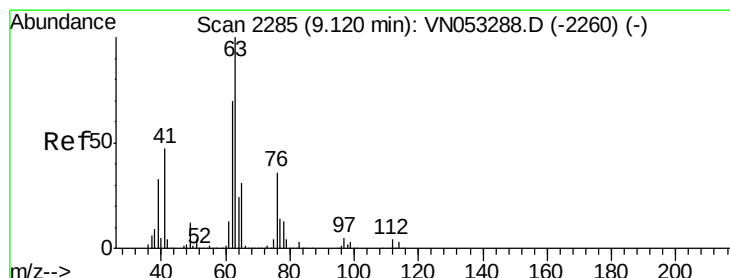
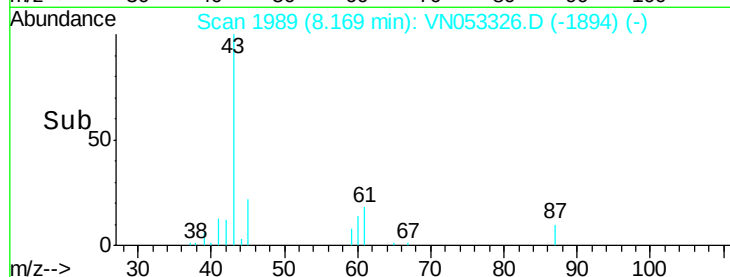
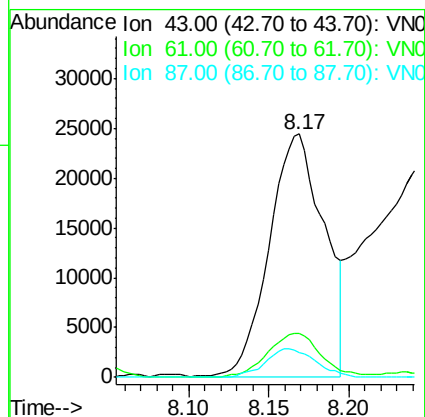
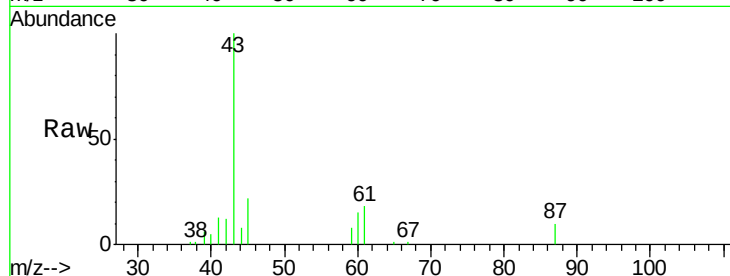
Tot Ion: 43 Resp: 58536

Ion Ratio Lower Upper

43 100

61 17.6 23.3 34.9#

87 10.7 10.8 16.2#



#45

1,2-Dichloropropane

Concen: 0.235 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053326.D

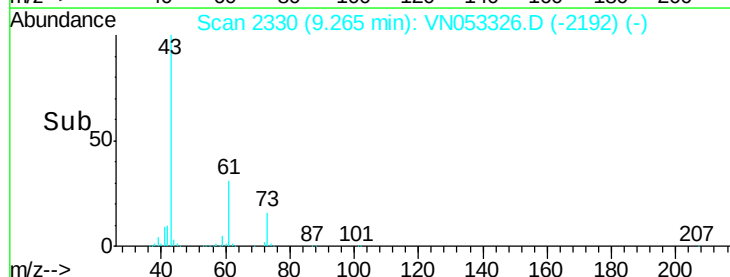
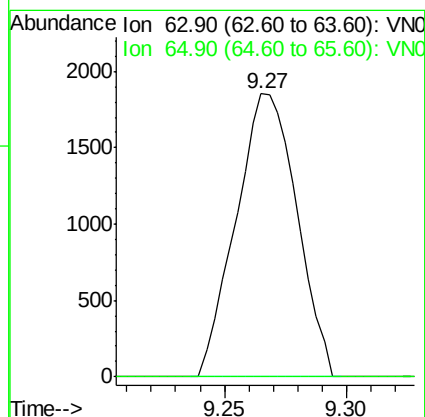
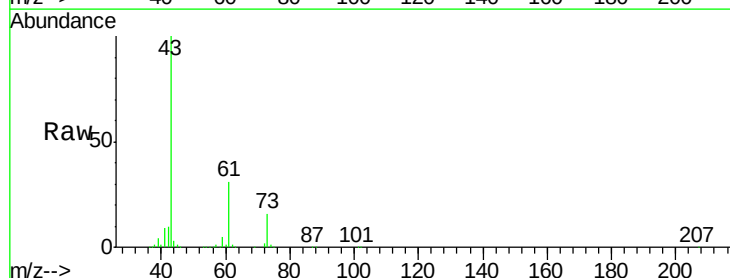
Acq: 9 Jan 2019 17:58

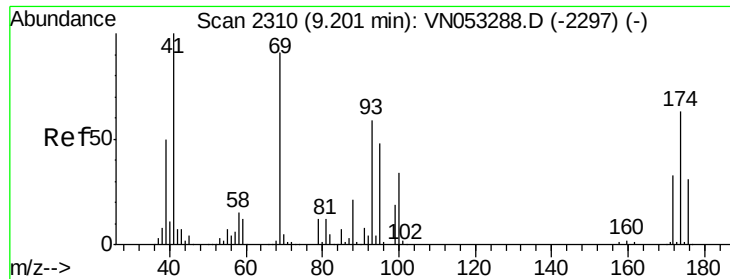
Tgt Ion: 63 Resp: 3200

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

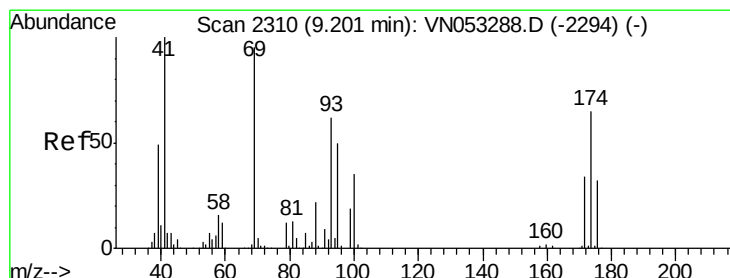
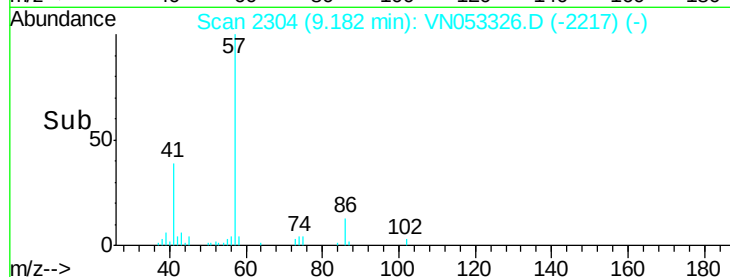
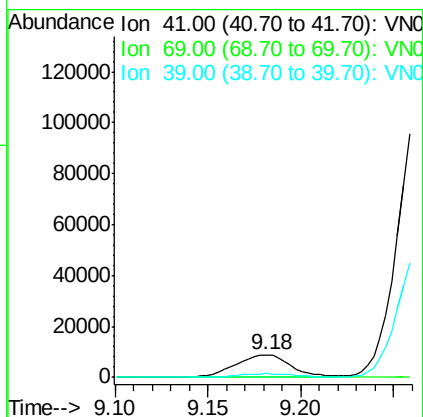
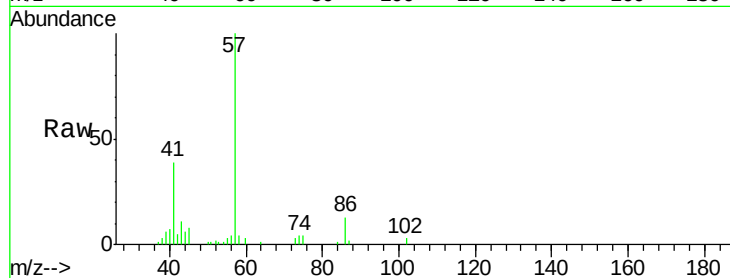




#48
Methyl methacrylate
Concen: 1.855 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

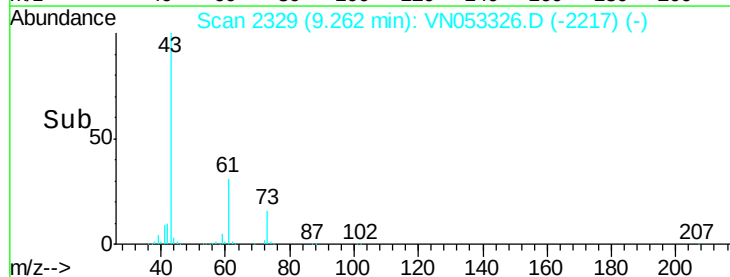
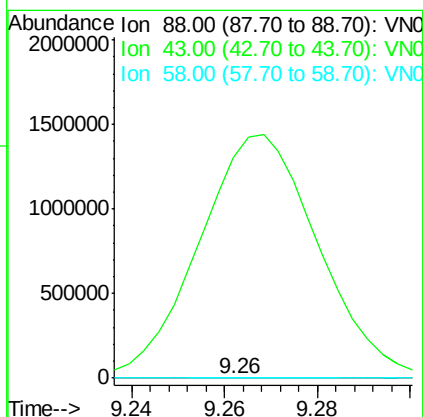
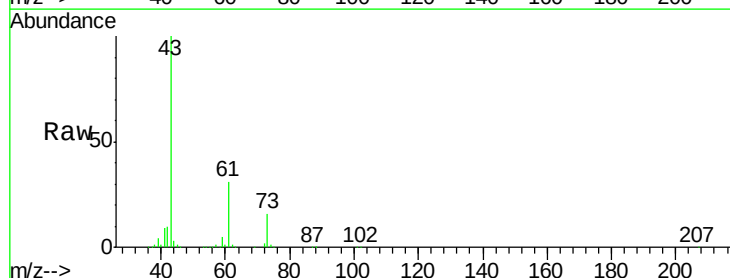
Instrument :
MSVOA_N
ClientSampled :
MH-448-C

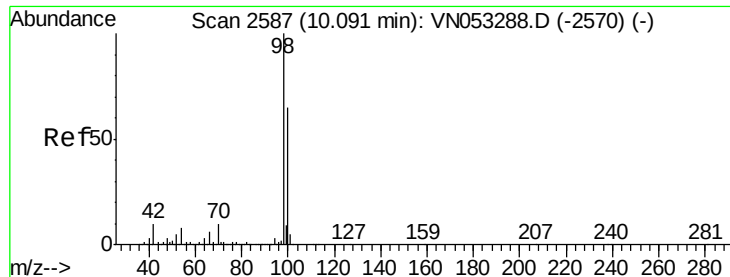
Tot Ion: 41 Resp: 18349
Ion Ratio Lower Upper
41 100
69 0.0 73.5 110.3#
39 0.0 41.6 62.4#



#49
1,4-Dioxane
Concen: 3.159 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

Tgt Ion: 88 Resp: 333
Ion Ratio Lower Upper
88 100
43 780488.3 26.2 39.4#
58 3397.0 55.5 83.3#

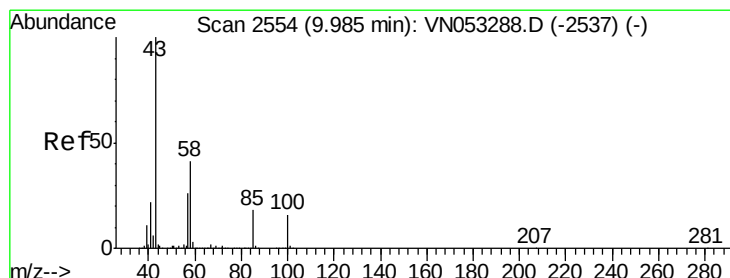
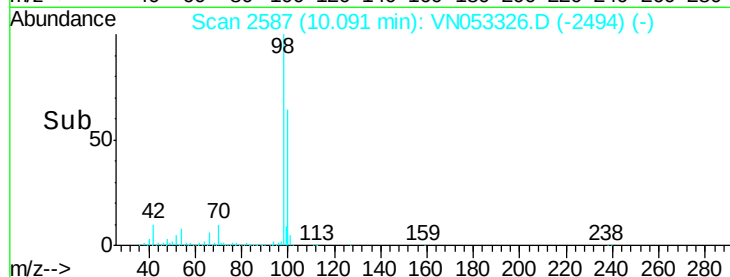
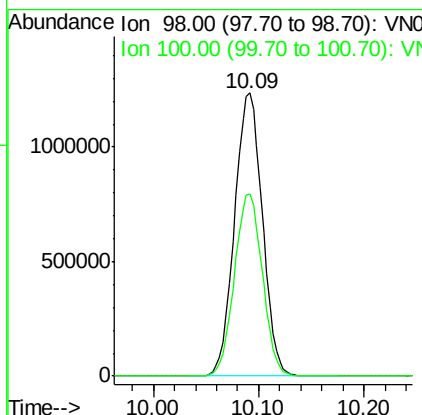
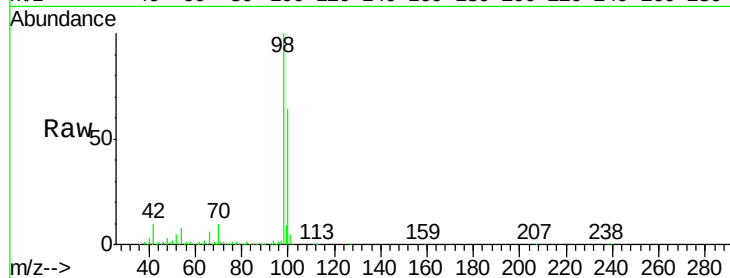




#50
Toluene-d8
Concen: 3.159 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

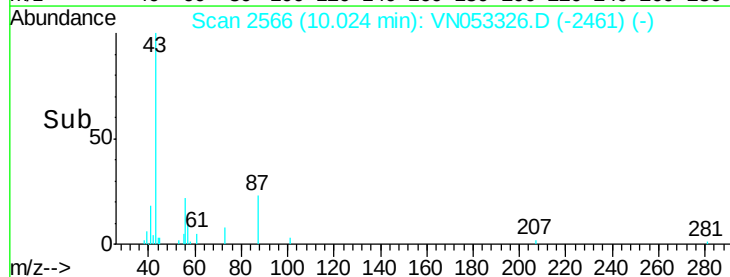
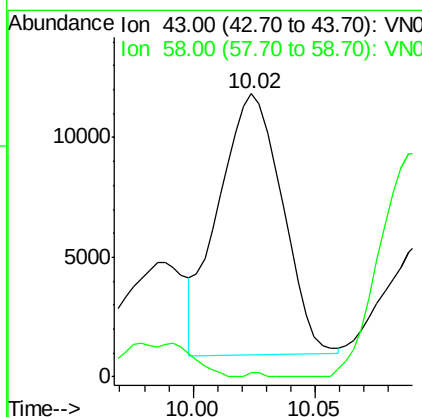
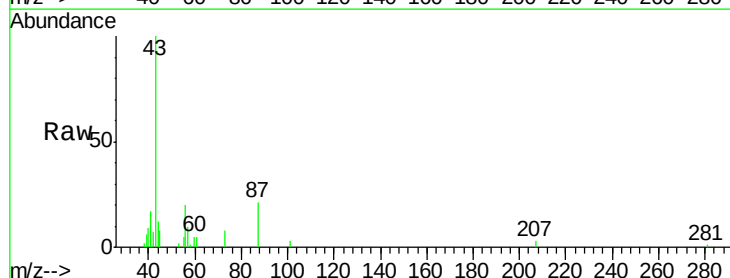
Instrument :
MSVOA_N
ClientSampled :
MH-448-C

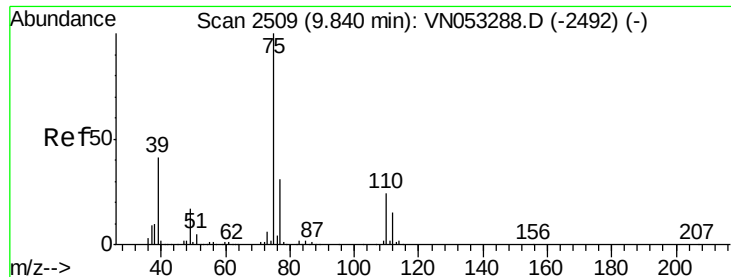
Tot Ion: 98 Resp: 2260021
Ion Ratio Lower Upper
98 100
100 64.5 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 1.806 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

Tgt Ion: 43 Resp: 19775
Ion Ratio Lower Upper
43 100
58 0.0 32.7 49.1#





#54

cis-1,3-Dichloropropene

Concen: 6.783 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

MH-448-C

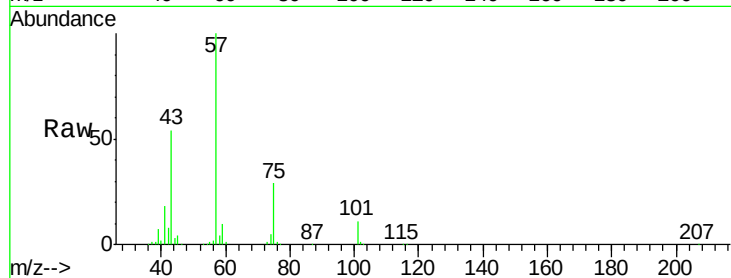
Tot Ion: 75 Resp: 132647

Ion Ratio Lower Upper

75 100

77 0.5 25.1 37.7#

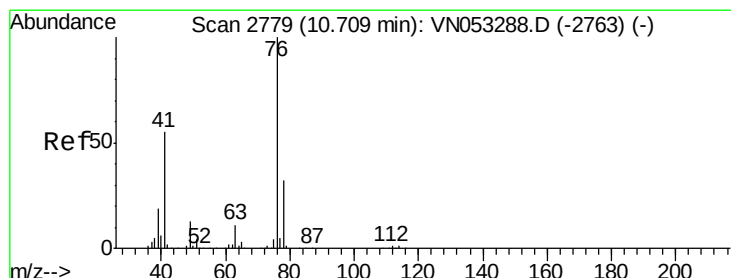
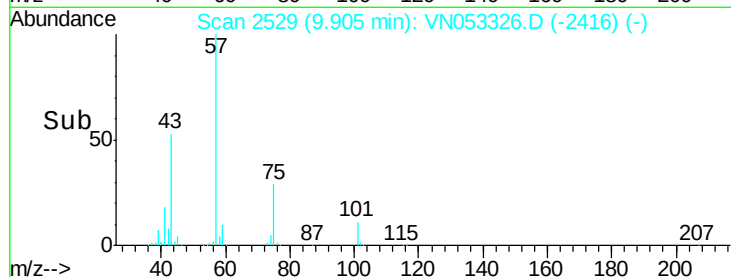
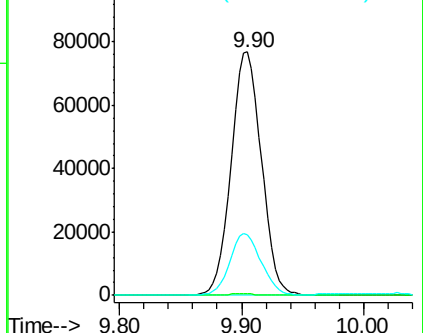
39 24.7 33.1 49.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.309 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053326.D

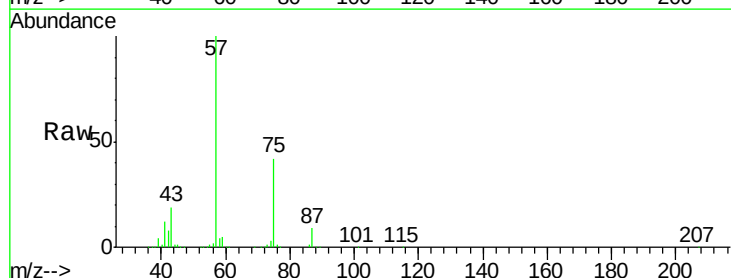
Acq: 9 Jan 2019 17:58

Tgt Ion: 76 Resp: 25637

Ion Ratio Lower Upper

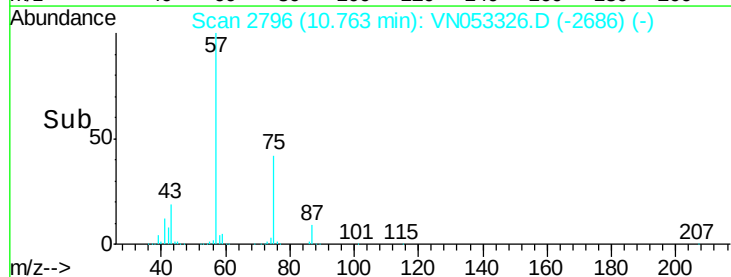
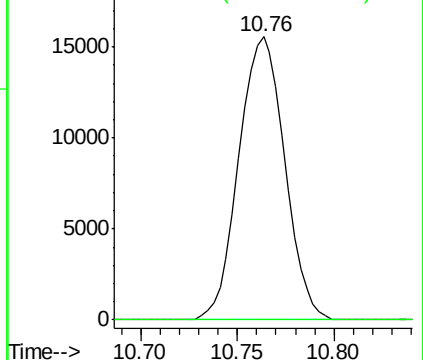
76 100

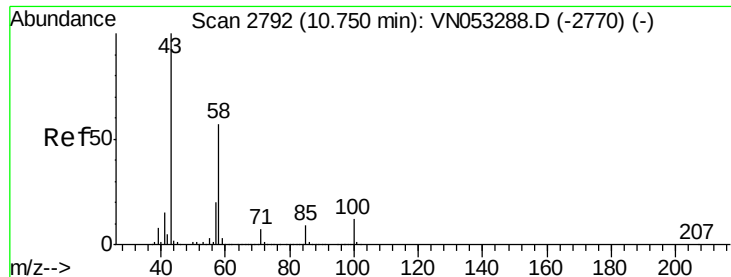
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

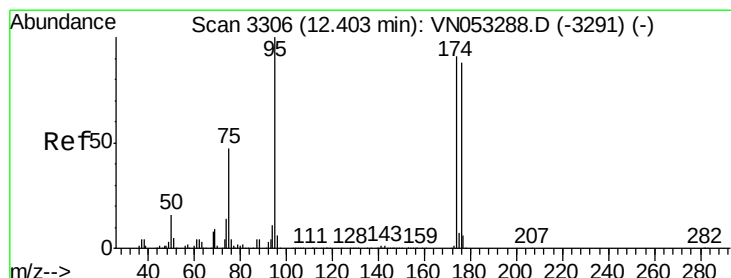
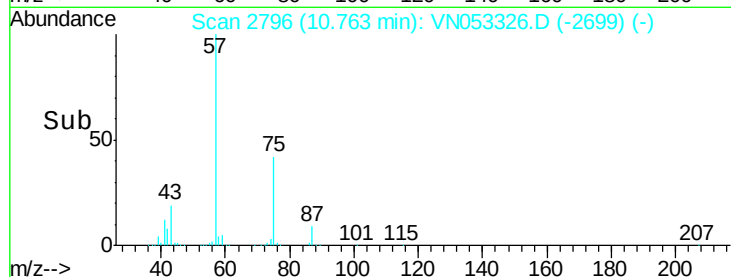
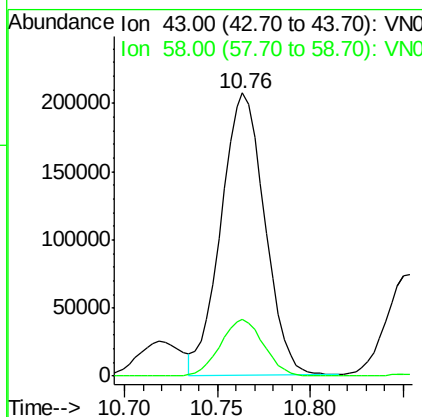
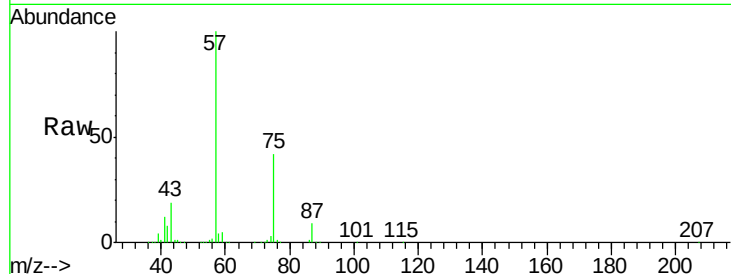




#59
2-Hexanone
Concen: 45.094 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

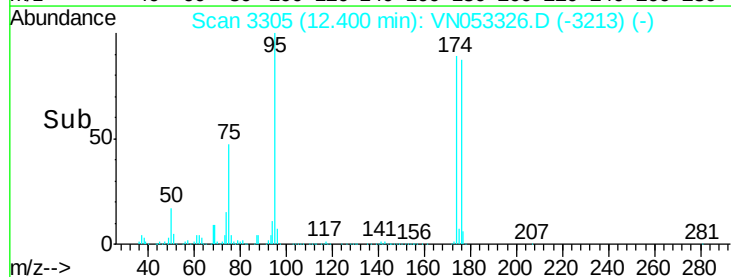
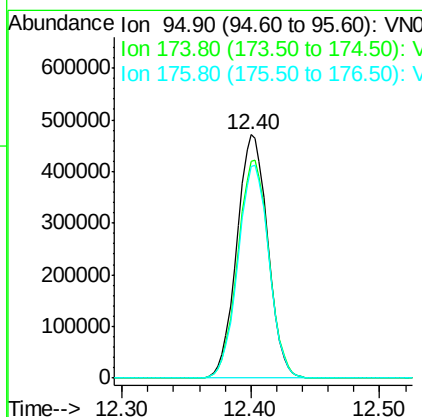
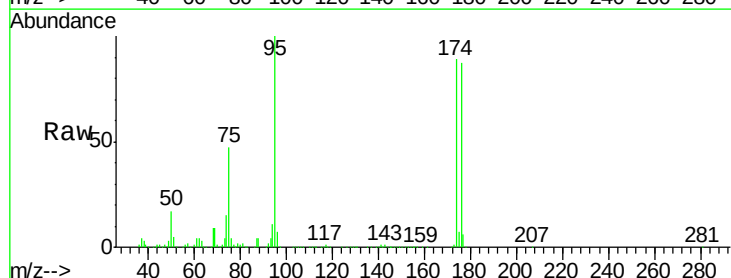
Instrument :
MSVOA_N
ClientSampled :
MH-448-C

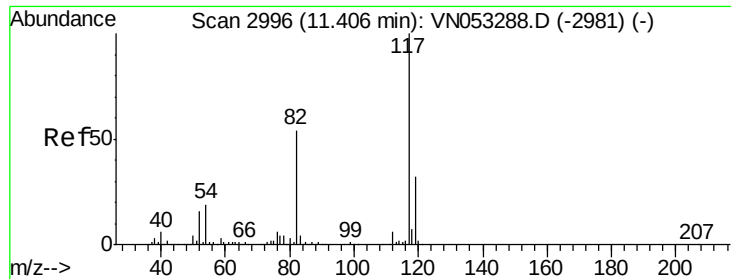
Tot Ion: 43 Resp: 338353
Ion Ratio Lower Upper
43 100
58 20.0 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

Tgt Ion: 95 Resp: 784256
Ion Ratio Lower Upper
95 100
174 90.5 0.0 180.4
176 87.7 0.0 175.6

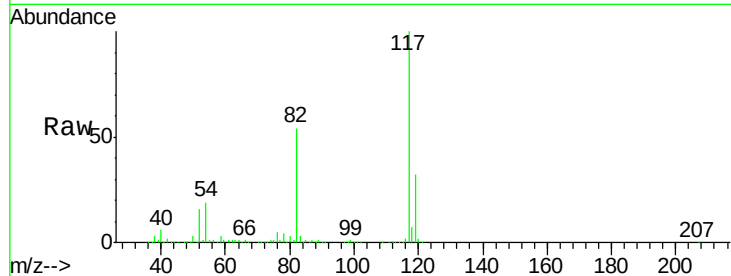




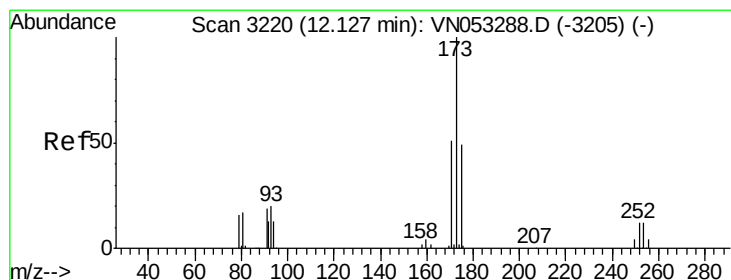
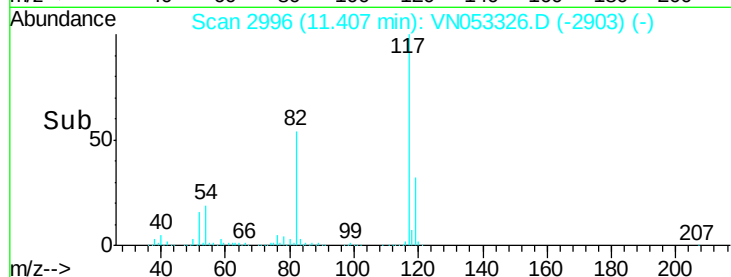
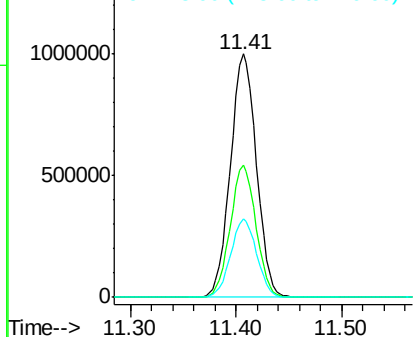
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

Instrument :
MSVOA_N
ClientSampled :
MH-448-C

Tot Ion:117 Resp: 1700282
Ion Ratio Lower Upper
117 100
82 54.3 42.9 64.3
119 32.2 25.6 38.4

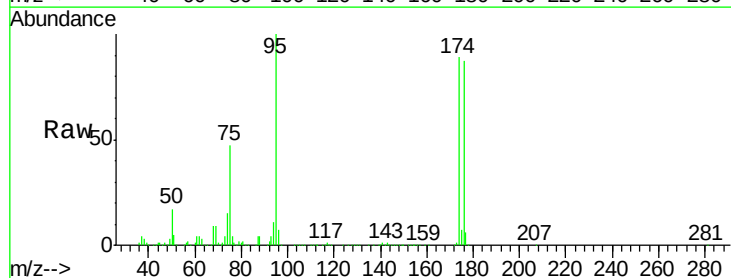


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

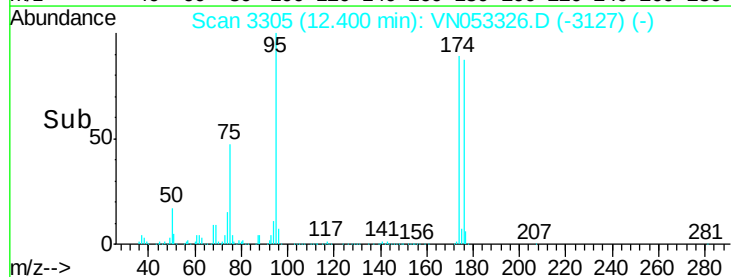
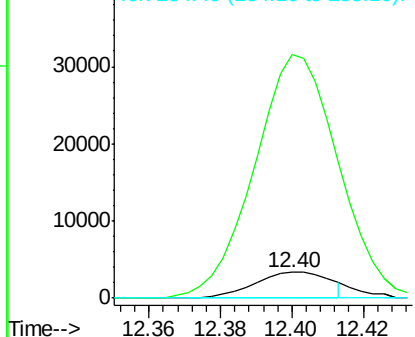


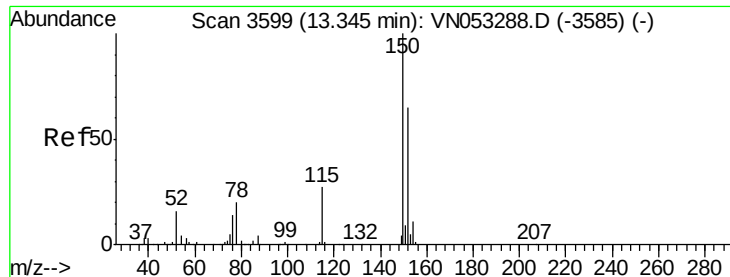
#71
Bromoform
Concen: 0.533 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053326.D
Acq: 9 Jan 2019 17:58

Tgt Ion:173 Resp: 4864
Ion Ratio Lower Upper
173 100
175 936.0 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

MH-448-C

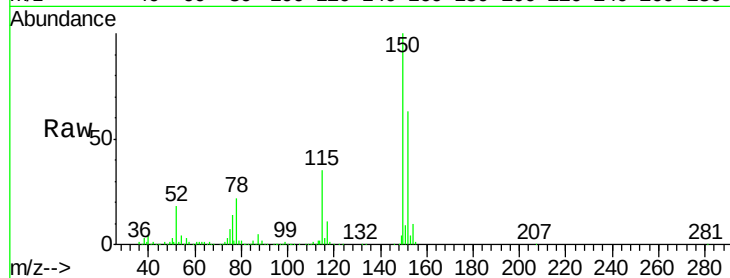
Tot Ion:152 Resp: 713508

Ion Ratio Lower Upper

152 100

115 56.0 28.0 84.0

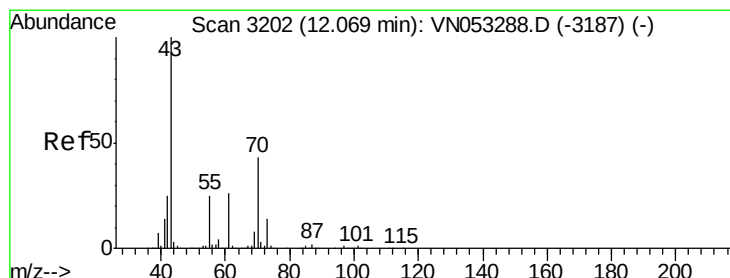
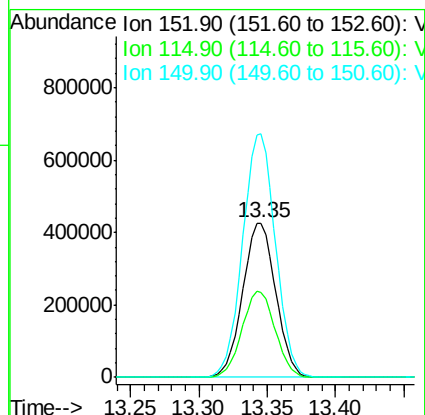
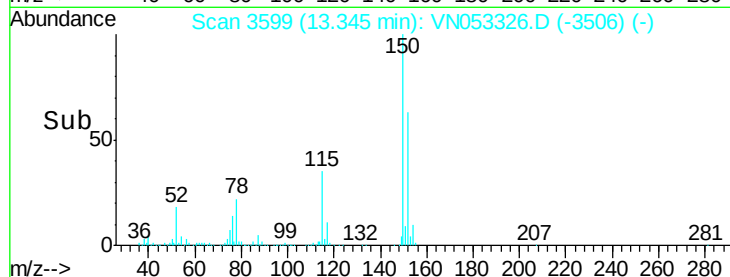
150 157.5 0.0 346.6



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



#74

N-ethyl acetate

Concen: 2.597 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Tgt Ion: 43 Resp: 41200

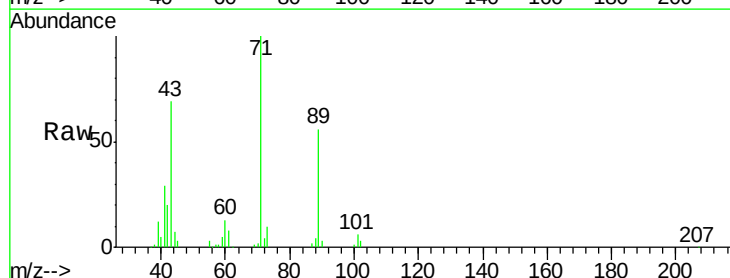
Ion Ratio Lower Upper

43 100

70 2.3 35.0 52.6#

55 4.5 20.0 30.0#

61 11.2 20.3 30.5#

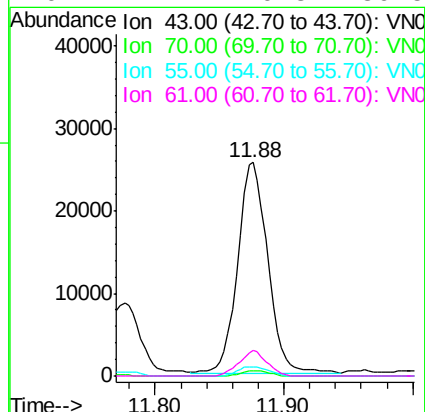
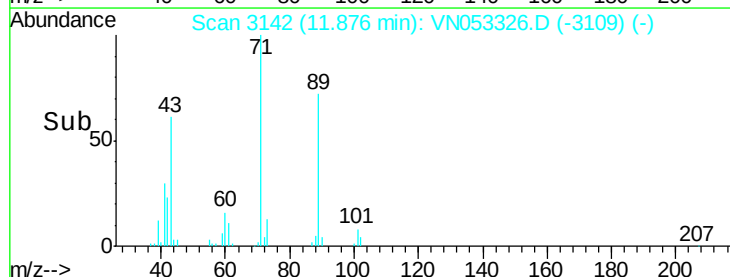


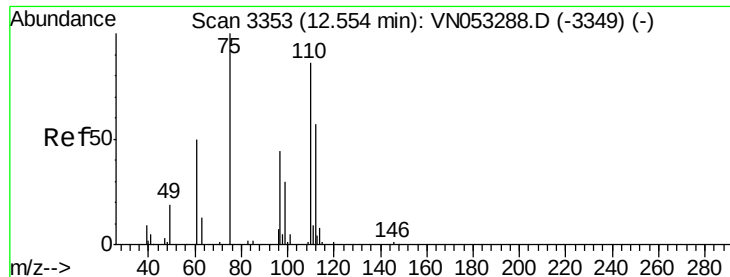
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 35.264 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

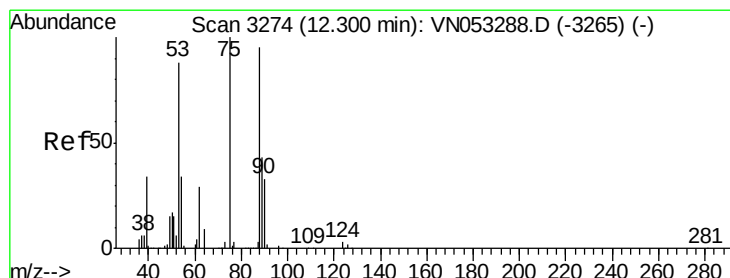
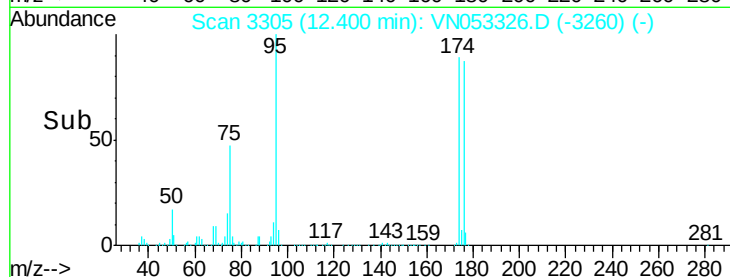
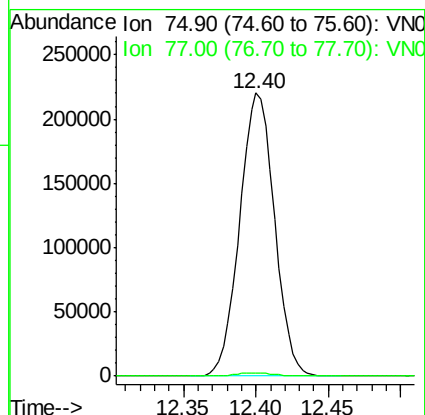
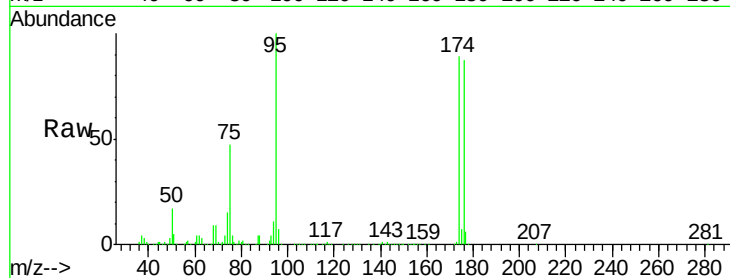
MH-448-C

Tot Ion: 75 Resp: 366992

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.754 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053326.D

Acq: 9 Jan 2019 17:58

Tgt Ion: 75 Resp: 366992

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 35.4 53.0#

