

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010919\
 Data File : VN053328.D
 Acq On : 9 Jan 2019 18:52
 Operator : MD\SY
 Sample : K1087-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-445

Quant Time: Jan 10 03:06:54 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

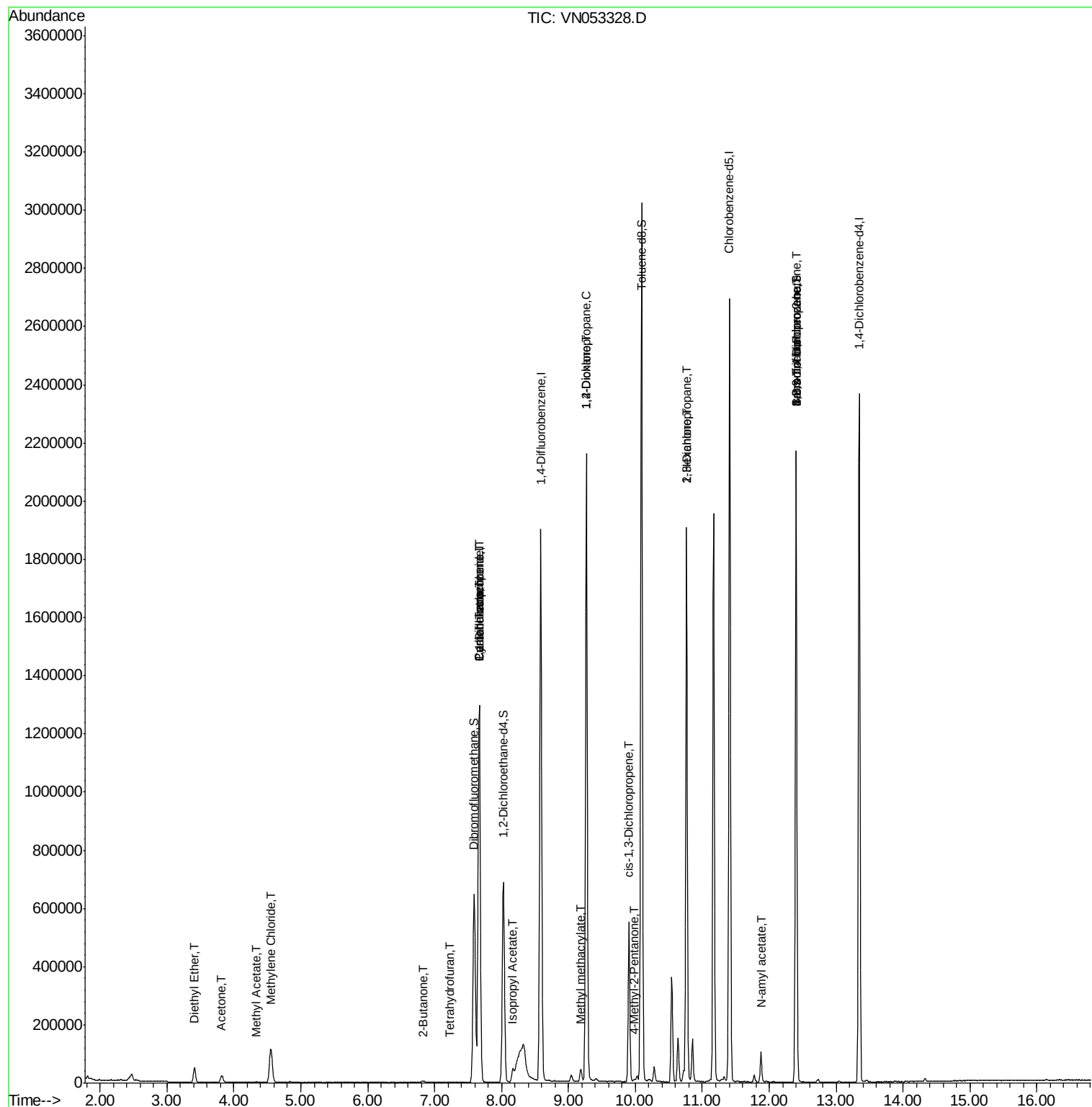
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1153227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1768368	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1635550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	678615	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	567838	47.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.66%	
35) Dibromofluoromethane	7.59	113	493272	49.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.00%	
50) Toluene-d8	10.09	98	2194384	50.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.40	95	747840	49.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.38%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.41	74	27298	3.968	ug/l	98
16) Acetone	3.82	43	44756	13.384	ug/l	98
18) Methyl Acetate	4.34	43	6525	0.601	ug/l #	83
20) Methylene Chloride	4.55	84	92671	7.192	ug/l	98
25) 2-Butanone	6.84	43	2237	0.454	ug/l	92
29) Tetrahydrofuran	7.22	42	1742	0.536	ug/l #	60
31) Cyclohexane	7.67	56	18105	0.692	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	73774	4.469	ug/l #	48
38) Carbon Tetrachloride	7.66	117	98402	6.458	ug/l #	16
43) Isopropyl Acetate	8.17	43	55470	2.622	ug/l #	79
45) 1,2-Dichloropropane	9.26	63	2909	0.220	ug/l #	43
48) Methyl methacrylate	9.18	41	16563	1.723	ug/l #	20
49) 1,4-Dioxane	9.26	88	227	2.217	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	6569	0.617	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	106261	5.593	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	19979	1.050	ug/l #	42
59) 2-Hexanone	10.76	43	269287	36.945	ug/l #	50
71) Bromoform	12.40	173	4642	0.528	ug/l #	1
74) N-amyl acetate	11.88	43	30851	2.045	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	345509	34.907	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	345509	102.703	ug/l #	14

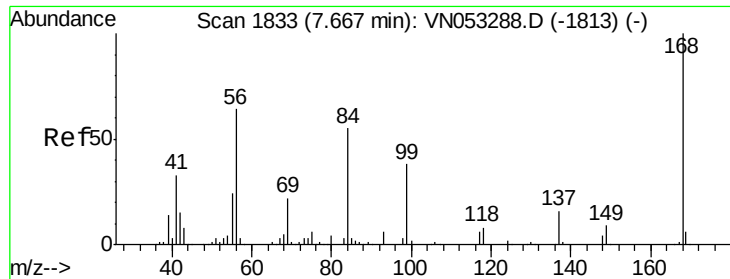
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

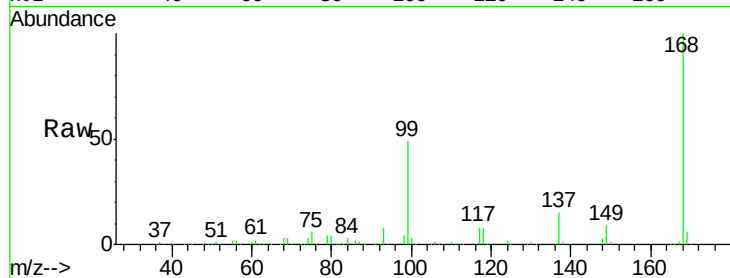
MH-445

Tot Ion:168 Resp: 1153227

Ion Ratio Lower Upper

168 100

99 49.1 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

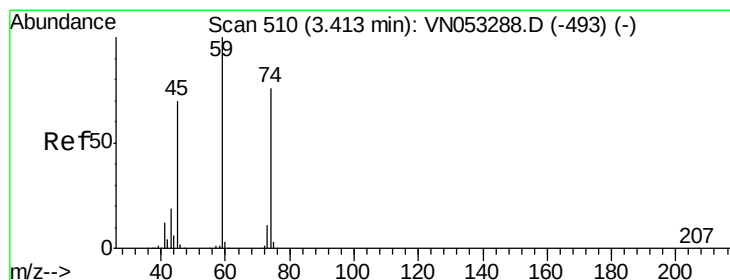
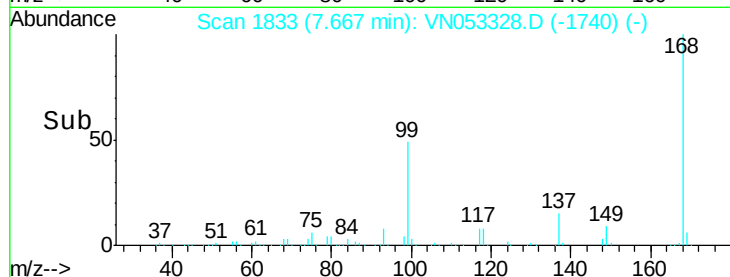
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 3.968 ug/l

RT: 3.41 min Scan# 509

Delta R.T. -0.00 min

Lab File: VN053328.D

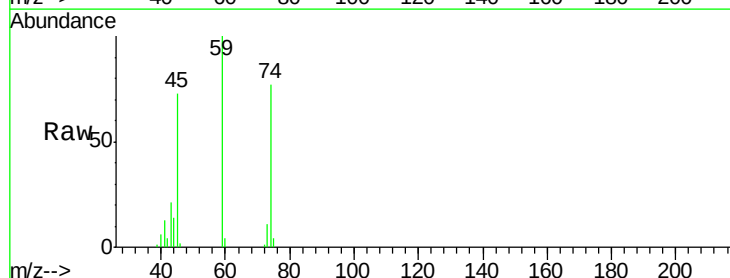
Acq: 9 Jan 2019 18:52

Tgt Ion: 74 Resp: 27298

Ion Ratio Lower Upper

74 100

45 98.5 48.3 144.9



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

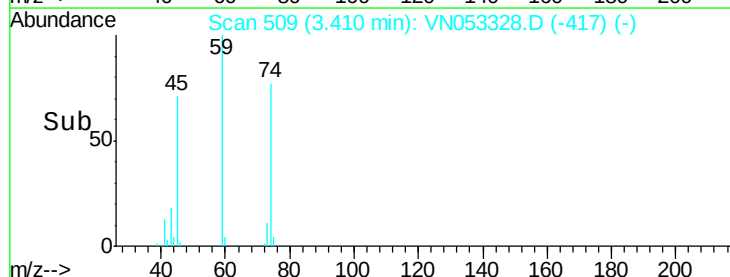
3.41

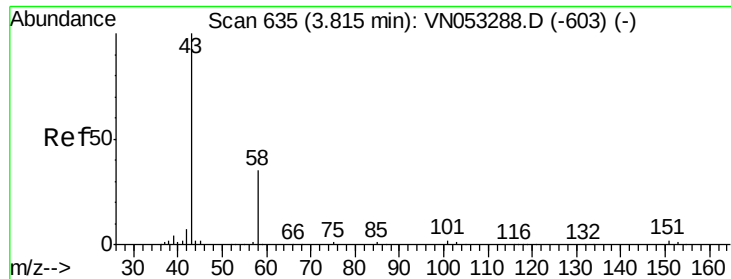
10000

5000

0

Time-->





#16

Acetone

Concen: 13.384 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

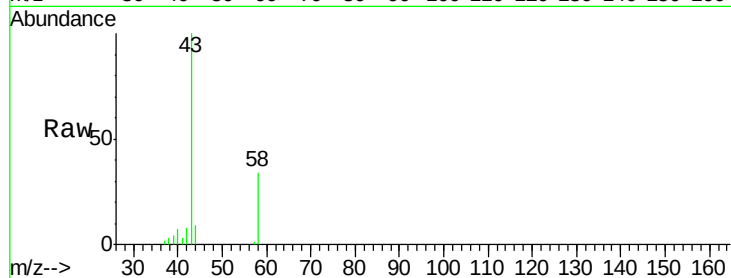
MH-445

Tot Ion: 43 Resp: 44756

Ion Ratio Lower Upper

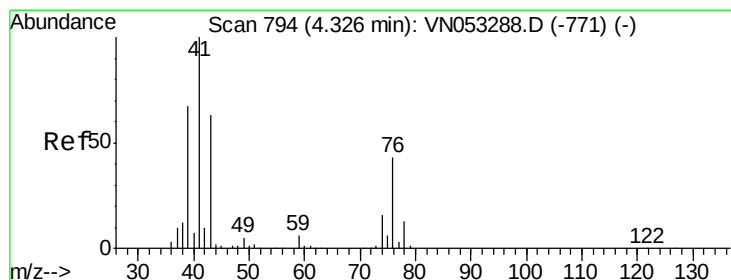
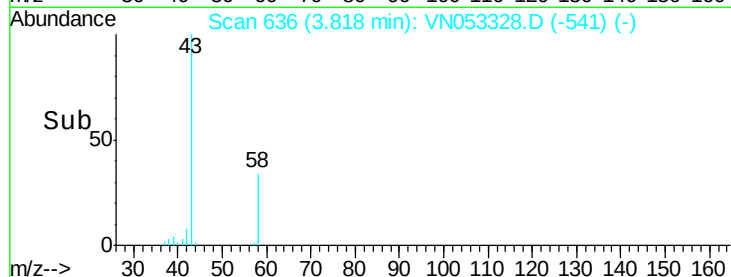
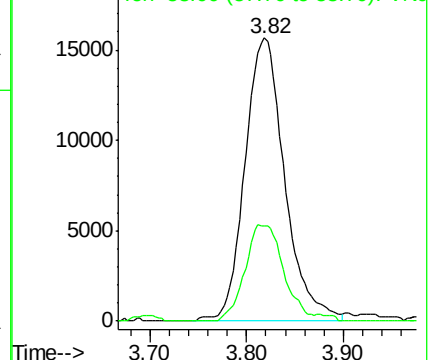
43 100

58 33.6 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.601 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN053328.D

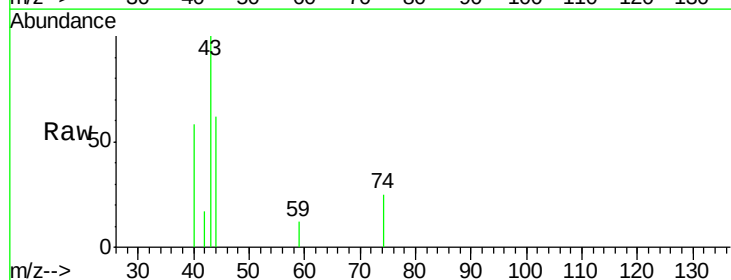
Acq: 9 Jan 2019 18:52

Tgt Ion: 43 Resp: 6525

Ion Ratio Lower Upper

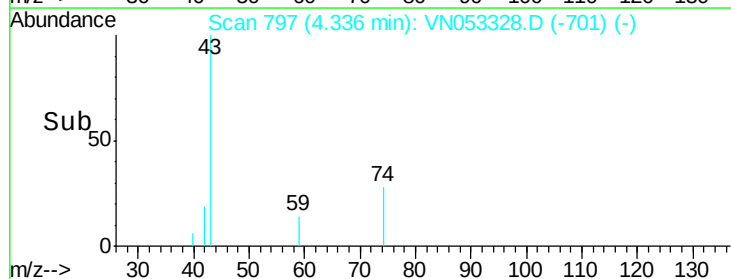
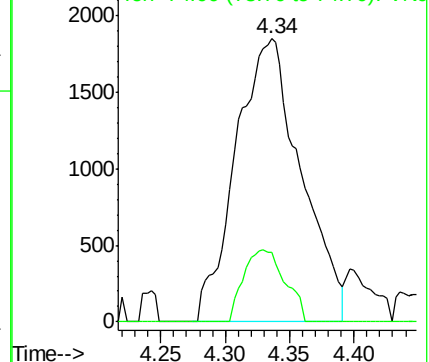
43 100

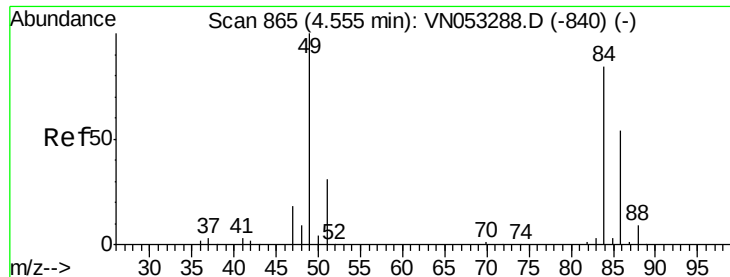
74 16.2 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

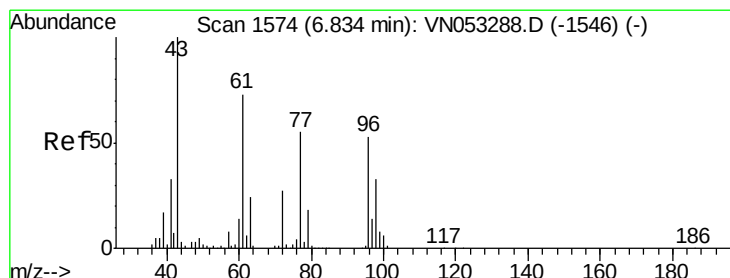
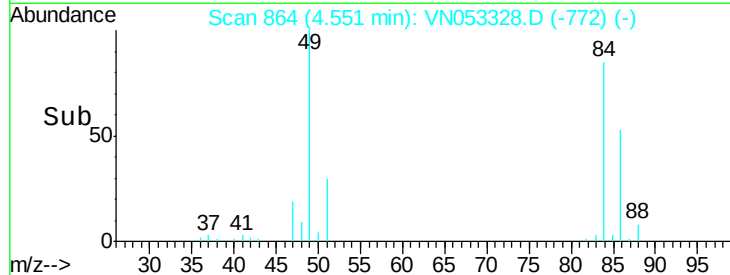
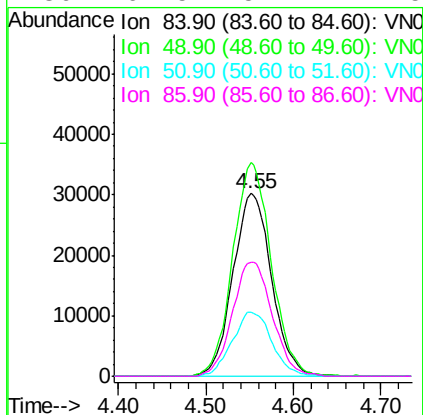
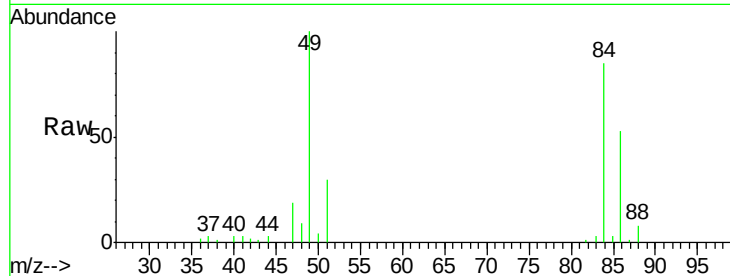




#20
Methvlene Chloride
Concen: 7.192 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053328.D
Acq: 9 Jan 2019 18:52

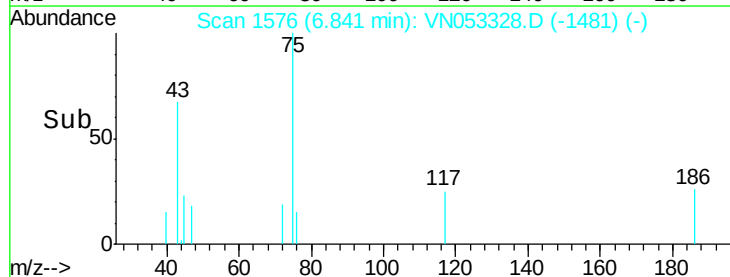
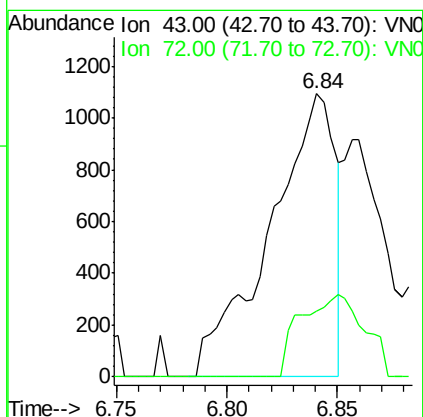
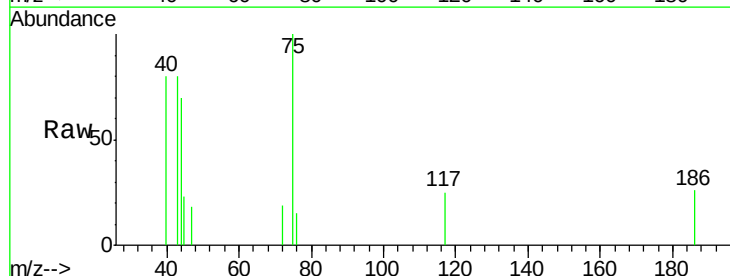
Instrument :
MSVOA_N
ClientSampled :
MH-445

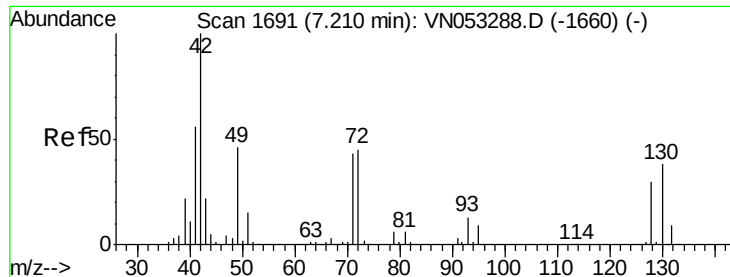
Tot Ion: 84 Resp: 92671
Ion Ratio Lower Upper
84 100
49 117.0 95.3 142.9
51 35.4 29.0 43.6
86 62.5 51.7 77.5



#25
2-Butanone
Concen: 0.454 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053328.D
Acq: 9 Jan 2019 18:52

Tgt Ion: 43 Resp: 2237
Ion Ratio Lower Upper
43 100
72 23.4 22.0 33.0





#29

Tetrahydrofuran

Concen: 0.536 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

MH-445

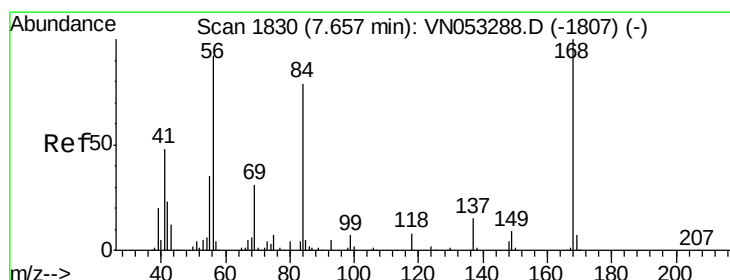
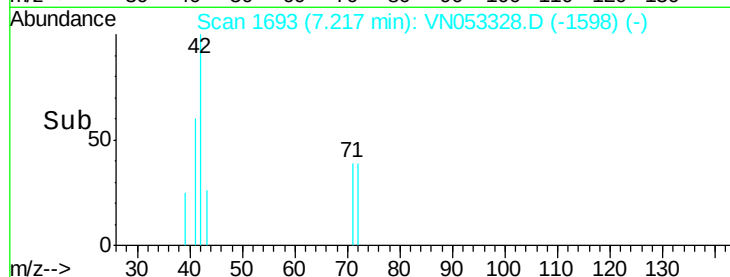
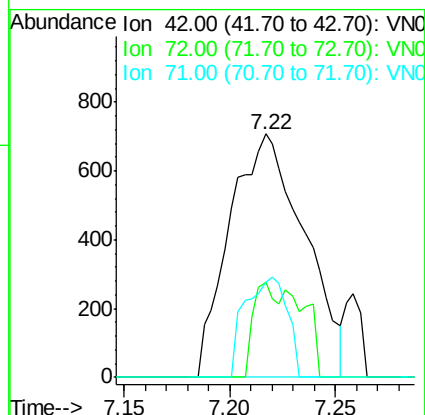
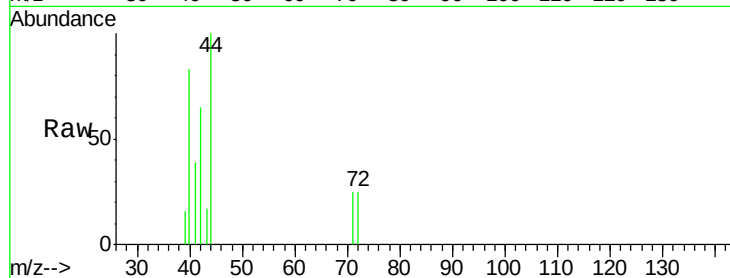
Tot Ion: 42 Resp: 1742

Ion Ratio Lower Upper

42 100

72 12.8 35.6 53.4#

71 23.2 33.8 50.8#



#31

Cyclohexane

Concen: 0.692 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

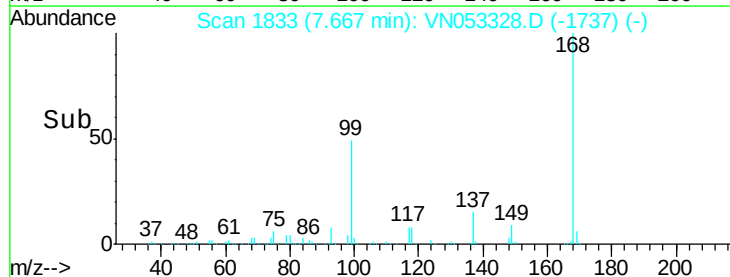
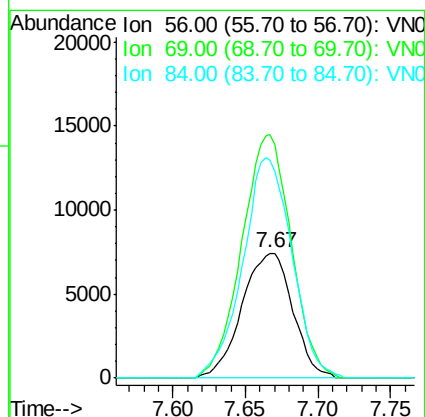
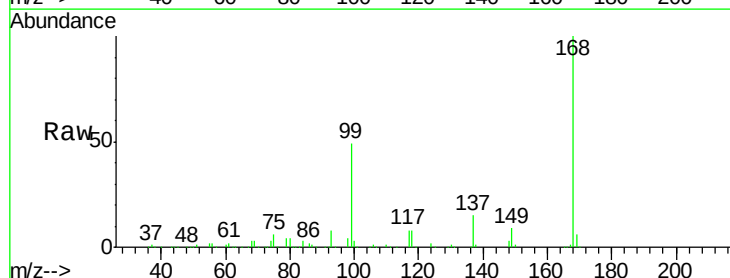
Tgt Ion: 56 Resp: 18105

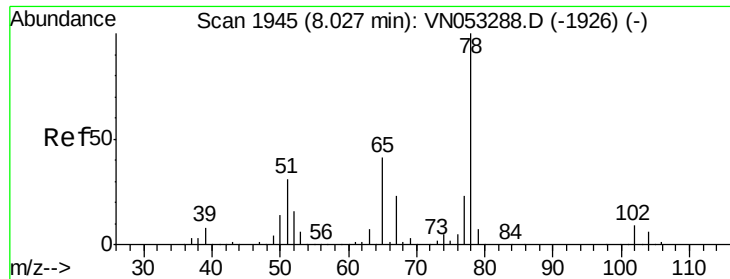
Ion Ratio Lower Upper

56 100

69 194.9 26.7 40.1#

84 174.3 68.2 102.4#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

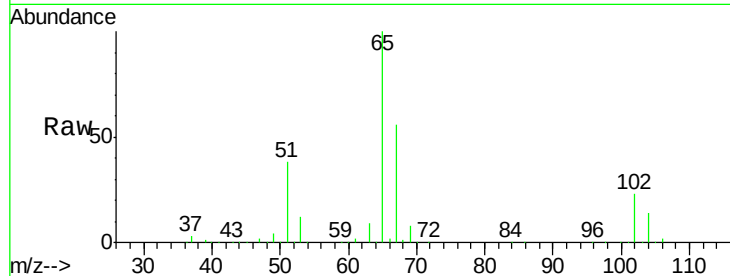
MH-445

Tot Ion: 65 Resp: 567838

Ion Ratio Lower Upper

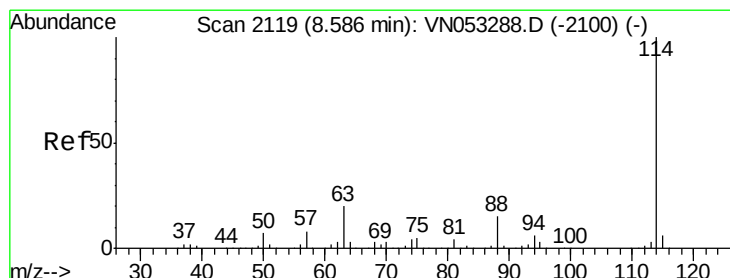
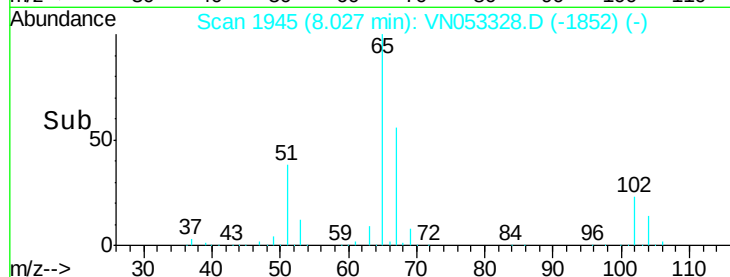
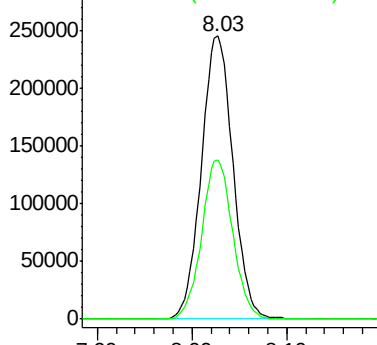
65 100

67 55.4 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

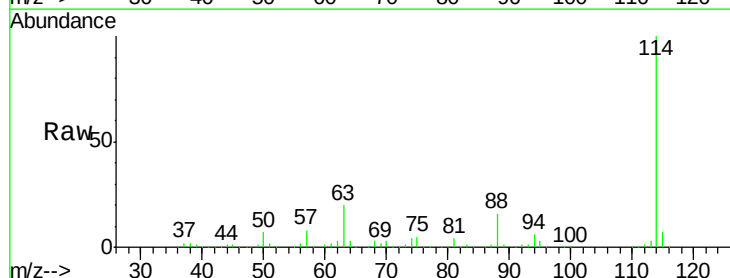
Tgt Ion:114 Resp: 1768368

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

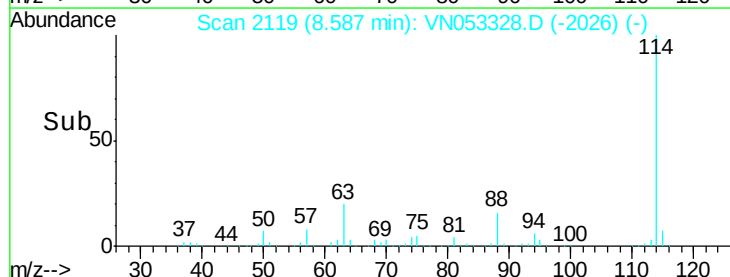
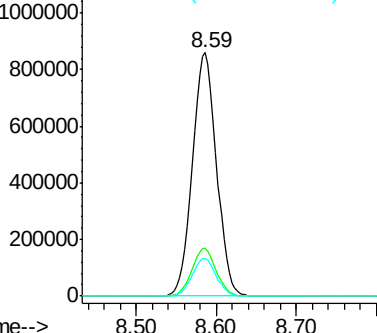
88 15.6 0.0 30.8

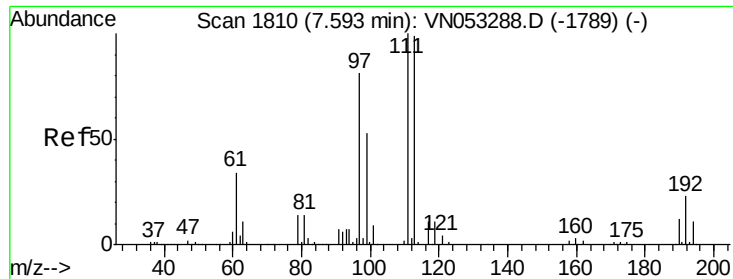


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

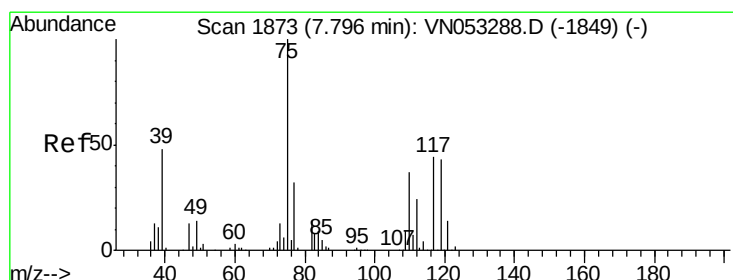
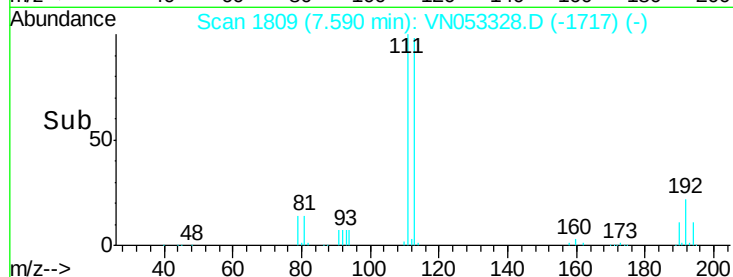
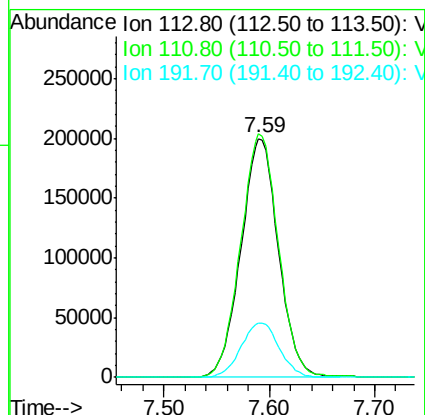
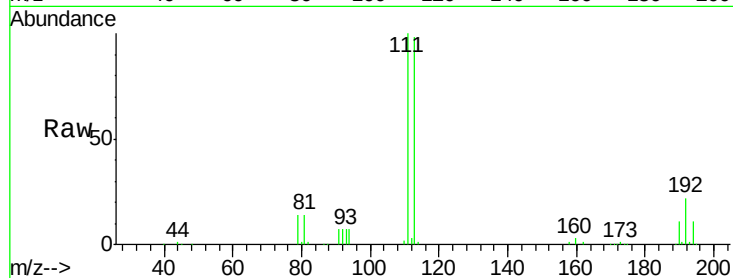




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053328.D
 Acq: 9 Jan 2019 18:52

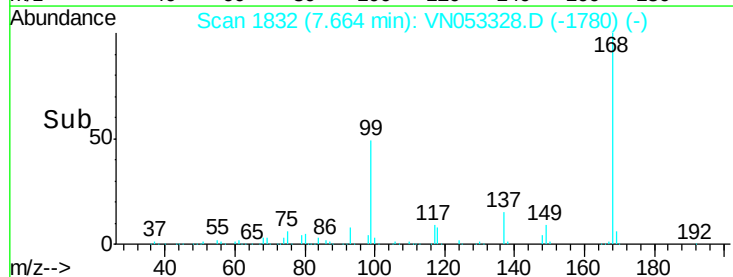
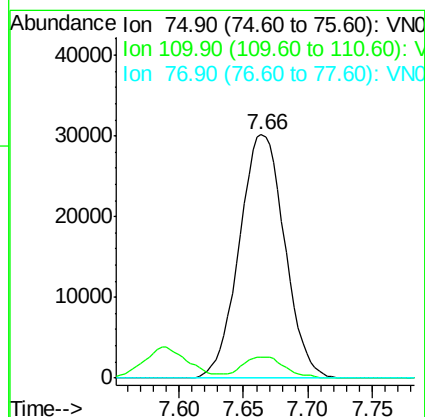
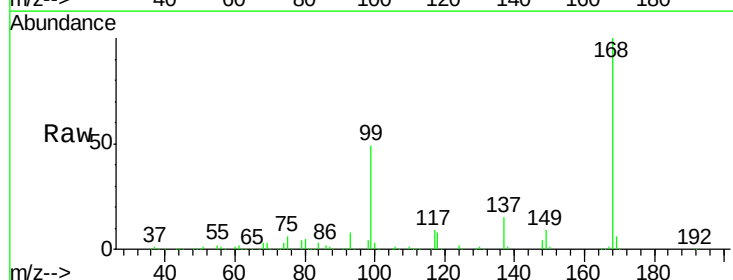
Instrument :
 MSVOA_N
 ClientSampled :
 MH-445

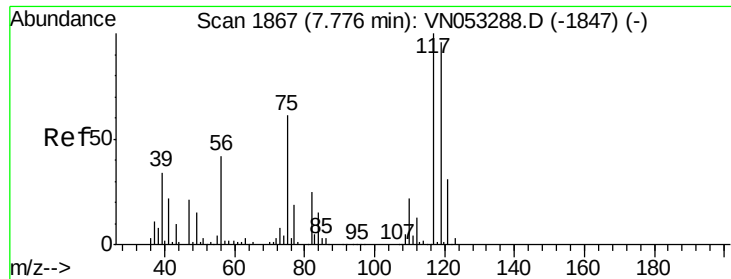
Tot Ion:113 Resp: 493272
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.4 122.2
 192 23.4 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.469 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053328.D
 Acq: 9 Jan 2019 18:52

Tgt Ion: 75 Resp: 73774
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.4 55.0#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.458 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

MH-445

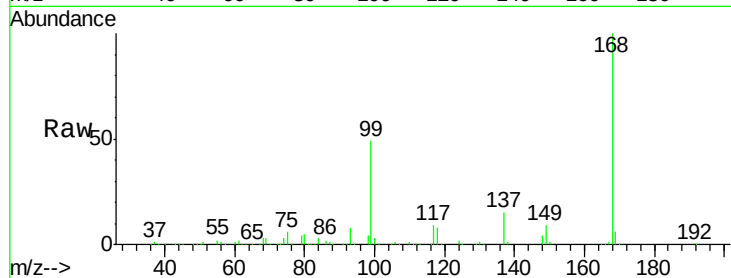
Tot Ion:117 Resp: 98402

Ion Ratio Lower Upper

117 100

119 5.1 76.6 115.0#

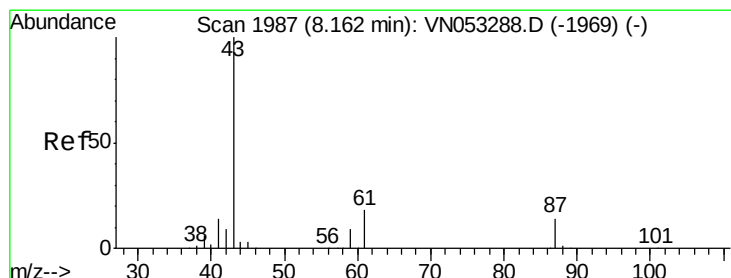
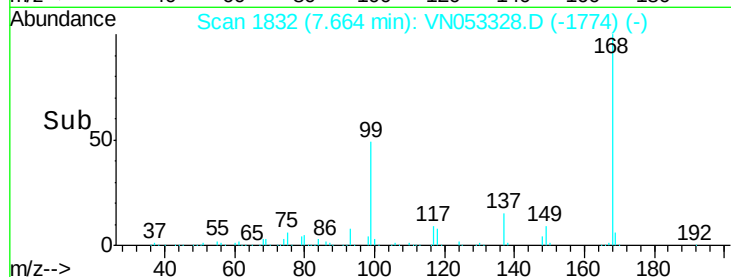
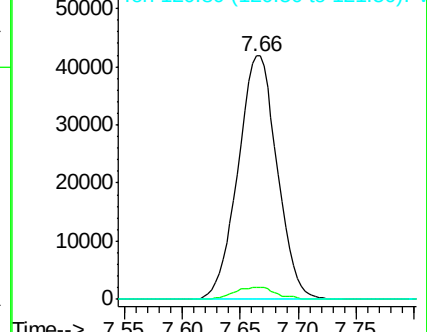
121 0.0 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.622 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

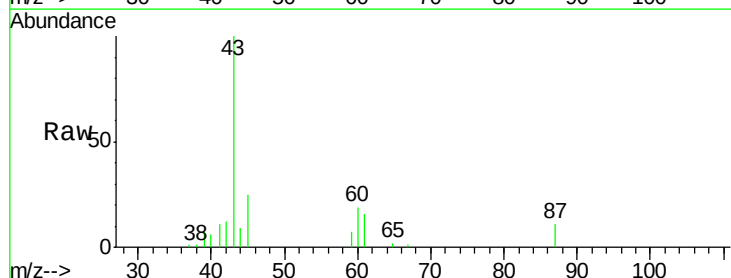
Tgt Ion: 43 Resp: 55470

Ion Ratio Lower Upper

43 100

61 15.2 23.3 34.9#

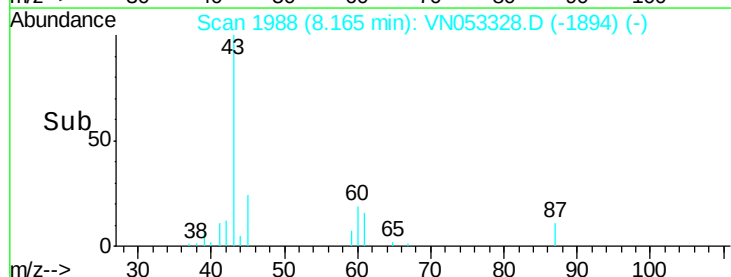
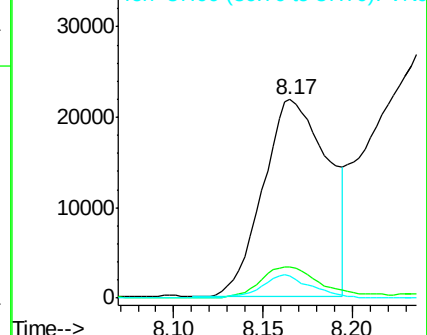
87 8.8 10.8 16.2#

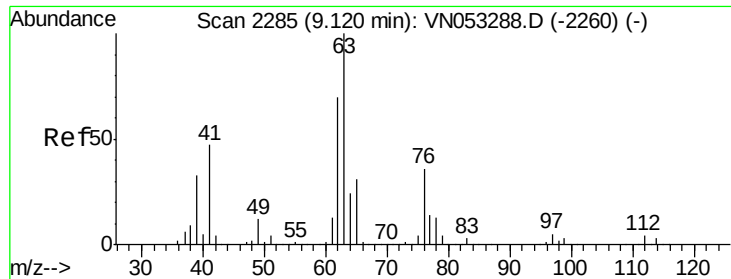


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

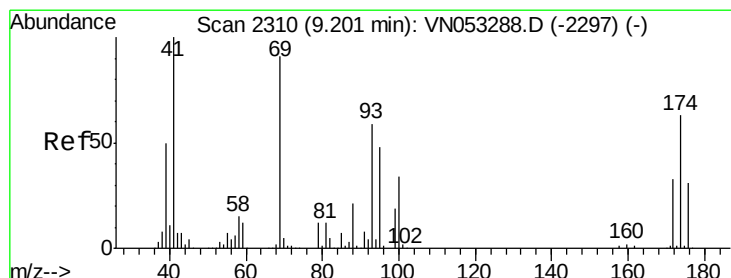
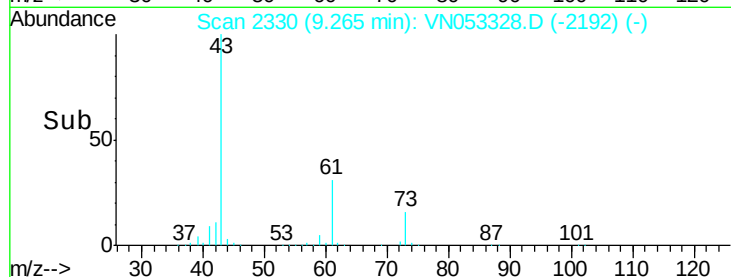
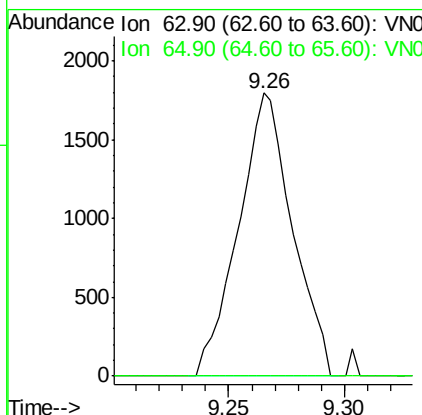
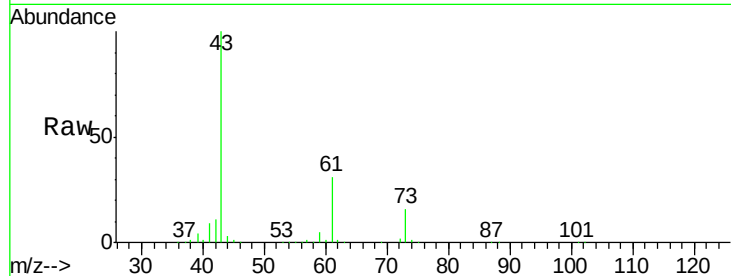




#45
 1,2-Dichloropropane
 Concen: 0.220 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053328.D
 Acq: 9 Jan 2019 18:52

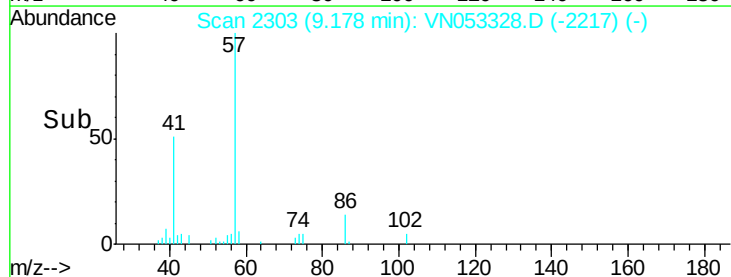
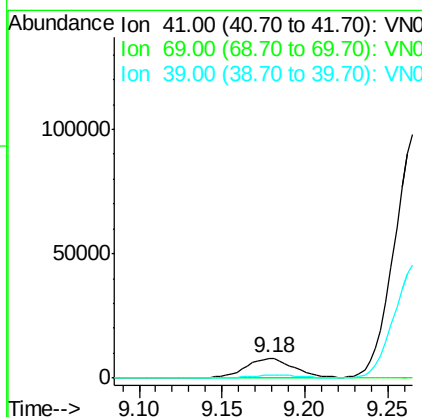
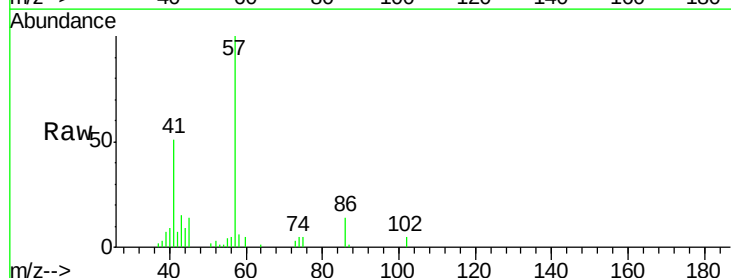
Instrument :
 MSVOA_N
 ClientSampled :
 MH-445

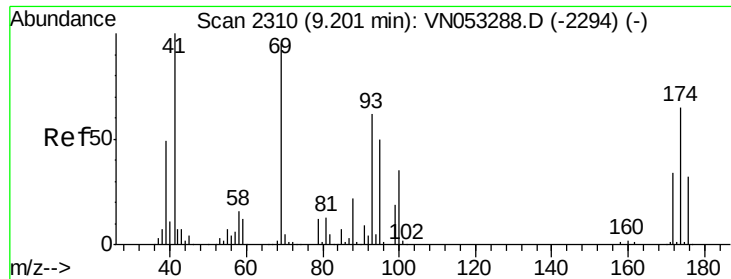
Tot Ion: 63 Resp: 2909
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.723 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053328.D
 Acq: 9 Jan 2019 18:52

Tgt Ion: 41 Resp: 16563
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.5 110.3#
 39 16.3 41.6 62.4#





#49

1,4-Dioxane

Concen: 2.217 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

MH-445

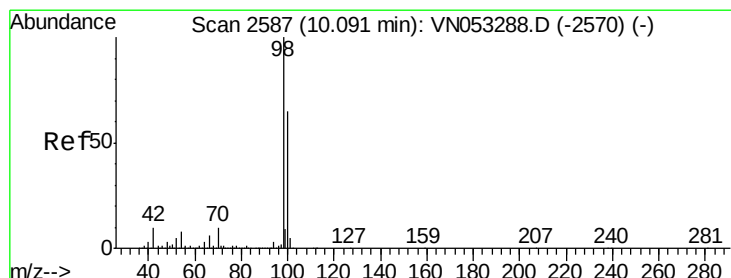
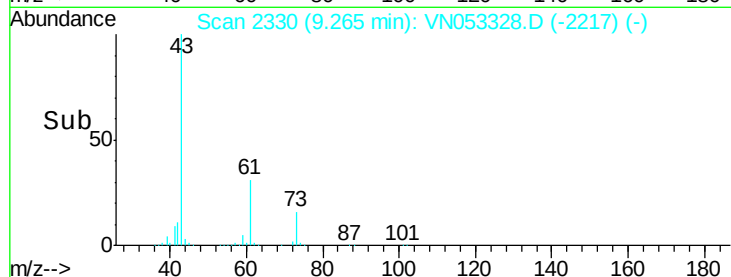
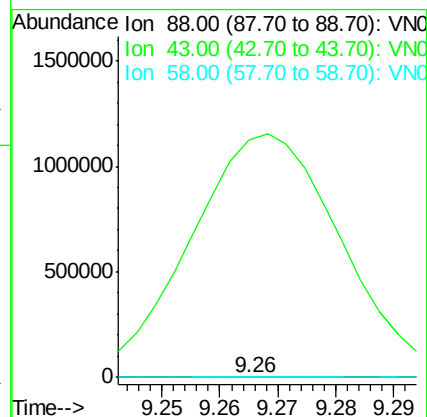
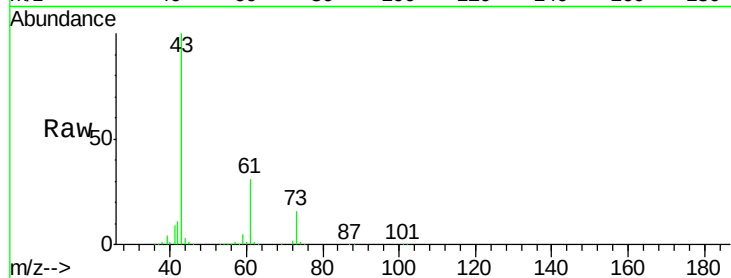
Tot Ion: 88 Resp: 227

Ion Ratio Lower Upper

88 100

43 936264.8 26.2 39.4#

58 4302.6 55.5 83.3#



#50

Toluene-d8

Concen: 2.217 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053328.D

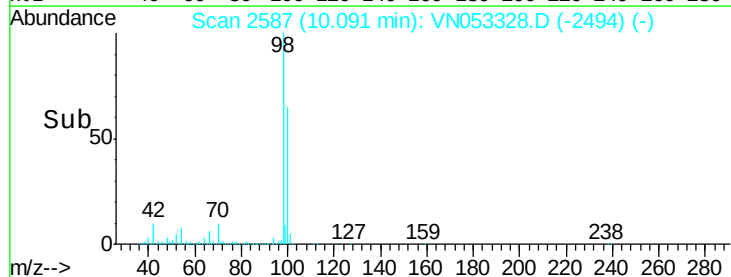
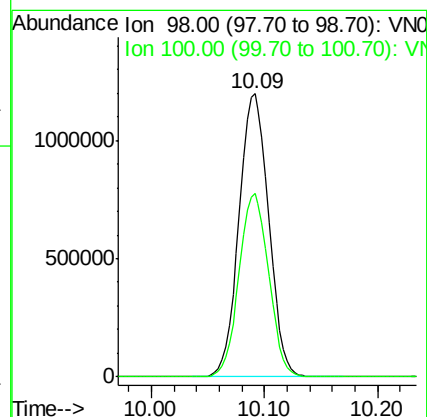
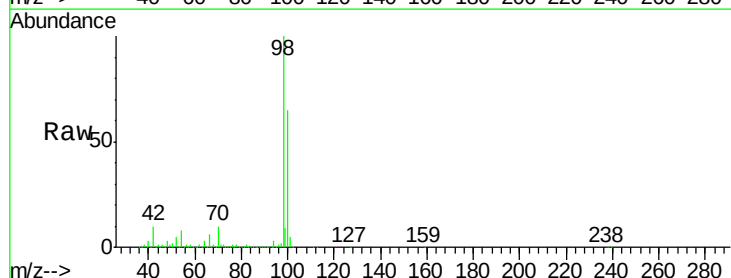
Acq: 9 Jan 2019 18:52

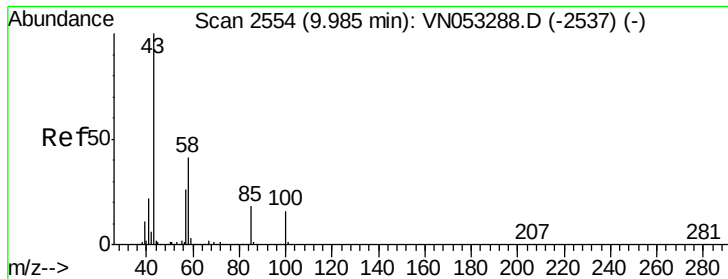
Tgt Ion: 98 Resp: 2194384

Ion Ratio Lower Upper

98 100

100 64.6 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 0.617 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

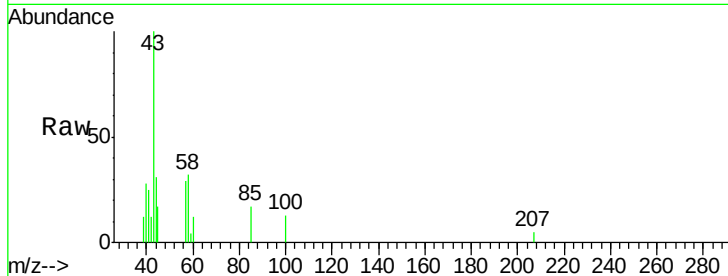
MH-445

Tot Ion: 43 Resp: 6569

Ion Ratio Lower Upper

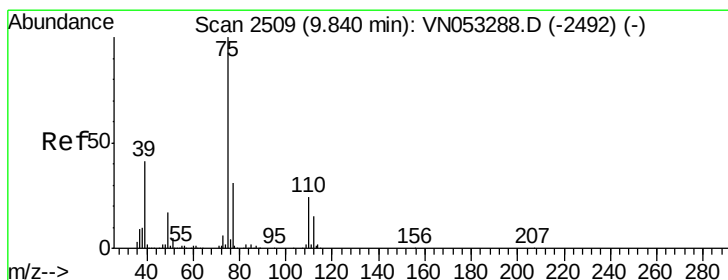
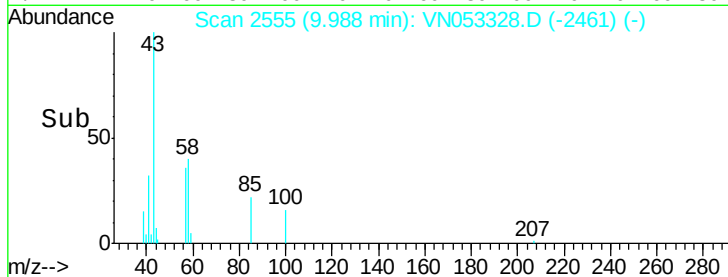
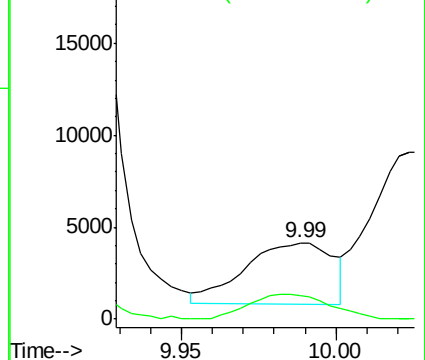
43 100

58 38.0 32.7 49.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.593 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

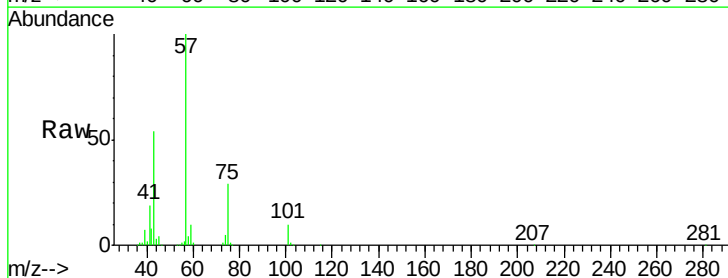
Tgt Ion: 75 Resp: 106261

Ion Ratio Lower Upper

75 100

77 0.4 25.1 37.7#

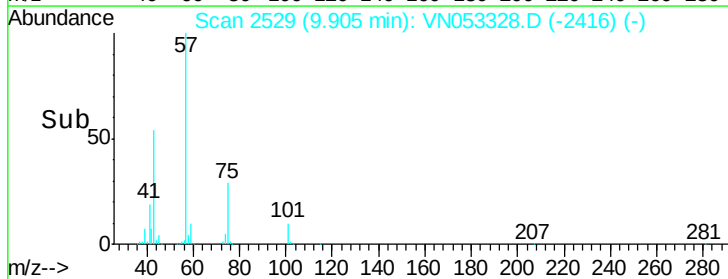
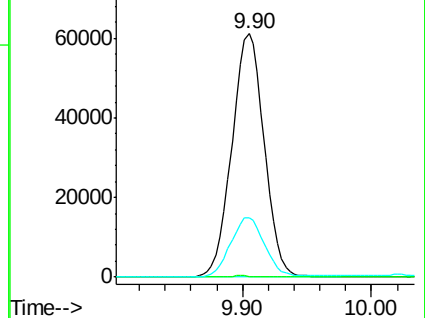
39 24.5 33.1 49.7#

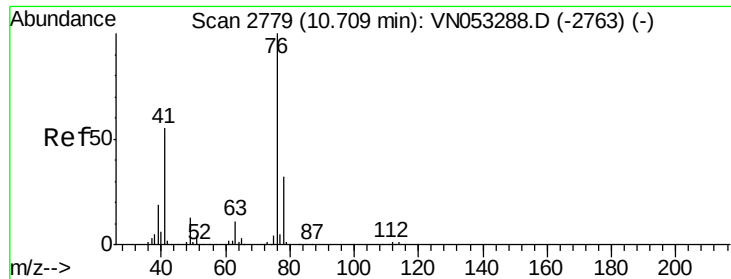


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.050 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

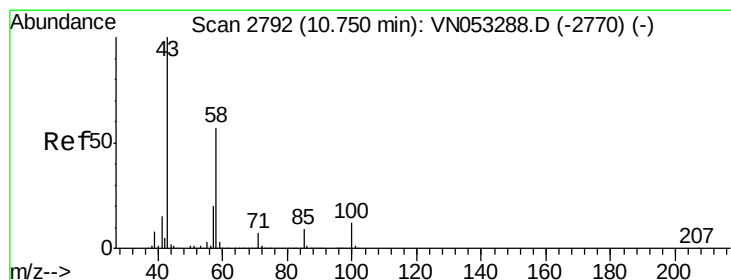
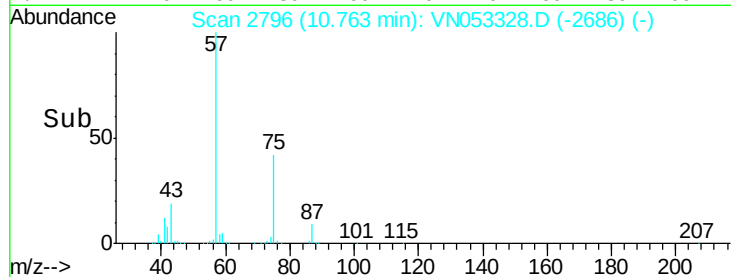
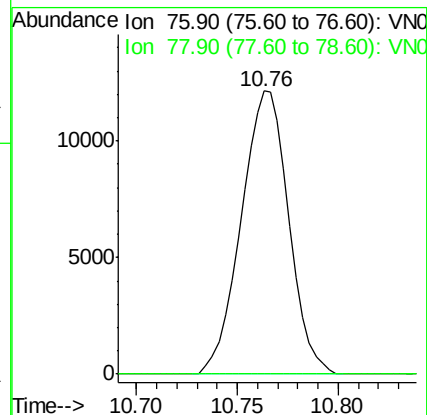
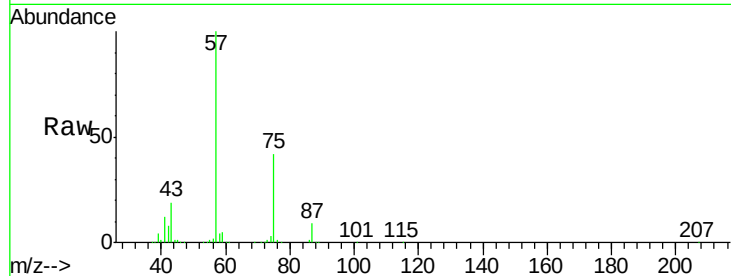
MH-445

Tot Ion: 76 Resp: 19979

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 36.945 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053328.D

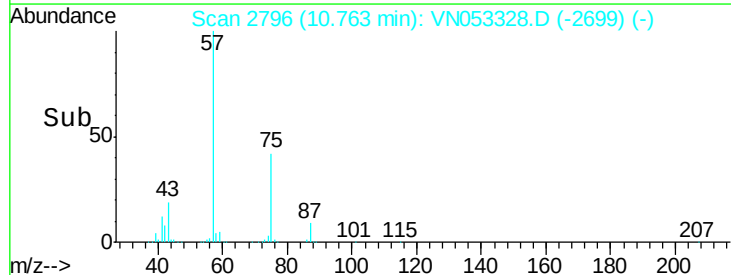
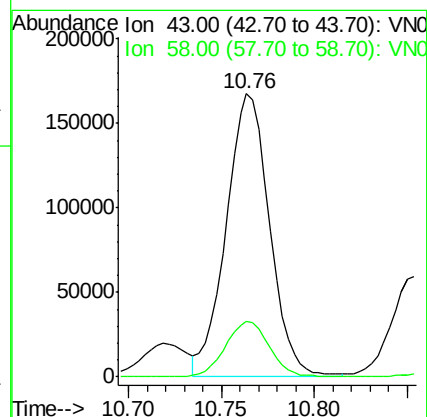
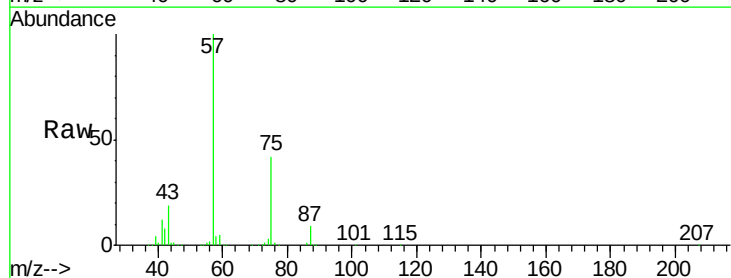
Acq: 9 Jan 2019 18:52

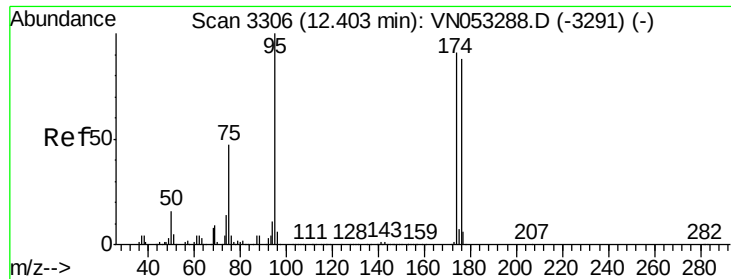
Tgt Ion: 43 Resp: 269287

Ion Ratio Lower Upper

43 100

58 20.1 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

MH-445

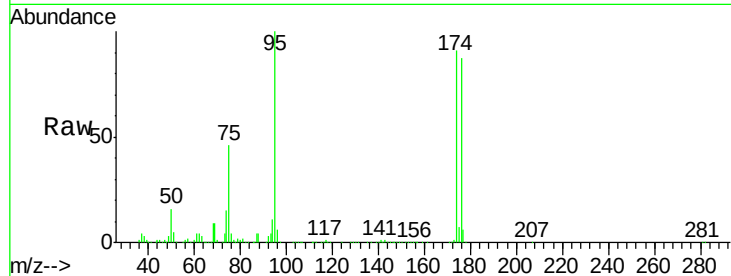
Tot Ion: 95 Resp: 747840

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.4

176 87.9 0.0 175.6

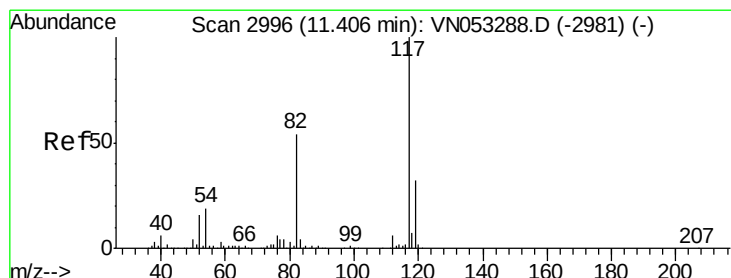
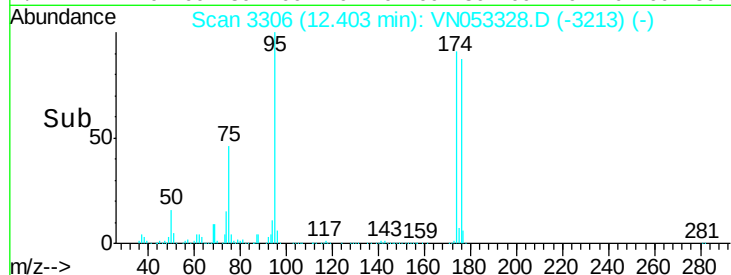


Abundance Ion 94.90 (94.60 to 95.60): VN053328.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053328.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053328.D (-3291) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

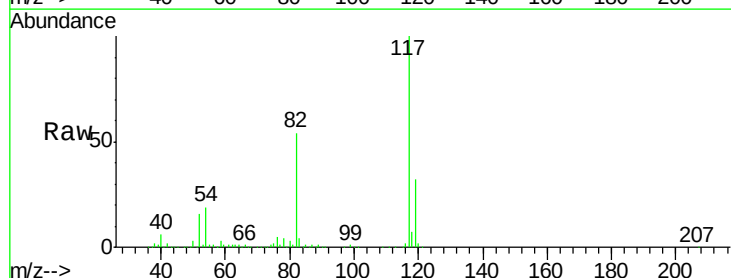
Tgt Ion: 117 Resp: 1635550

Ion Ratio Lower Upper

117 100

82 53.8 42.9 64.3

119 32.2 25.6 38.4

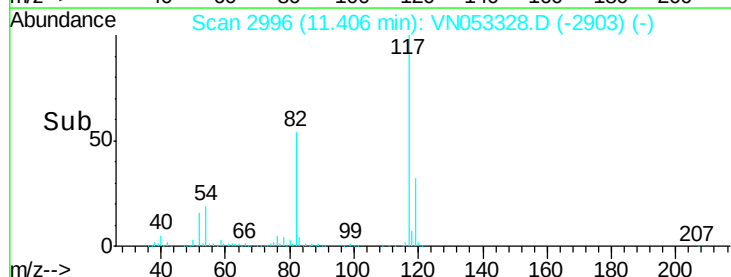


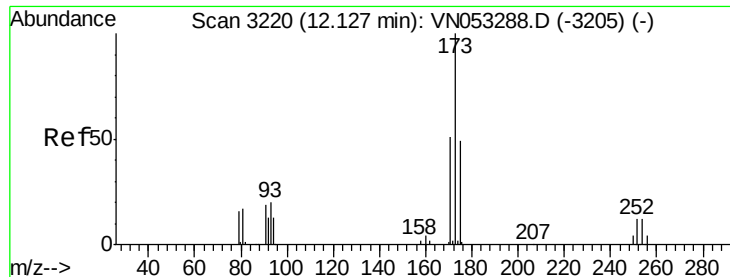
Abundance Ion 116.90 (116.60 to 117.60): VN053328.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN053328.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN053328.D (-2981) (-)

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.528 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

MH-445

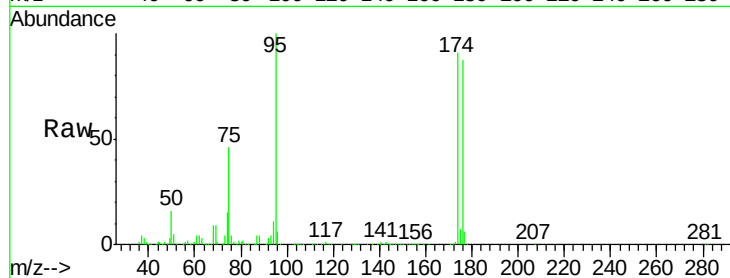
Tot Ion:173 Resp: 4642

Ion Ratio Lower Upper

173 100

175 909.9 24.3 72.8#

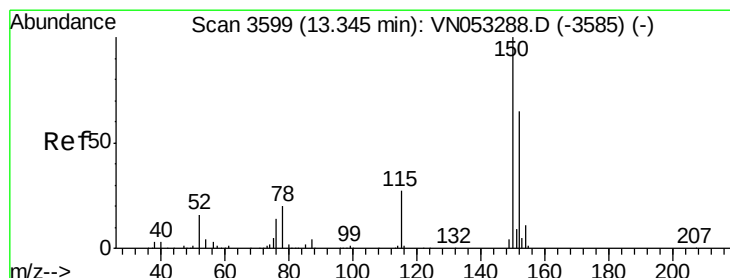
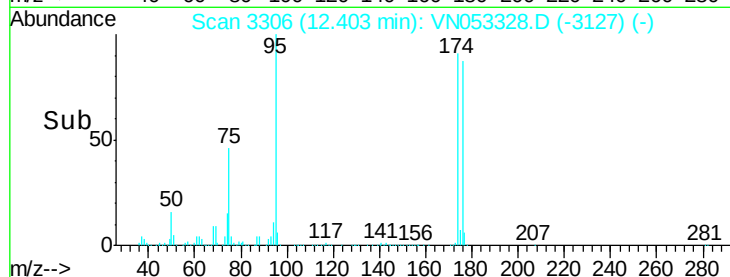
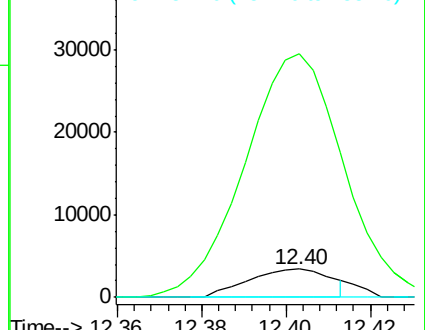
254 0.0 0.2 0.2#



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: VN053328.D

Acq: 9 Jan 2019 18:52

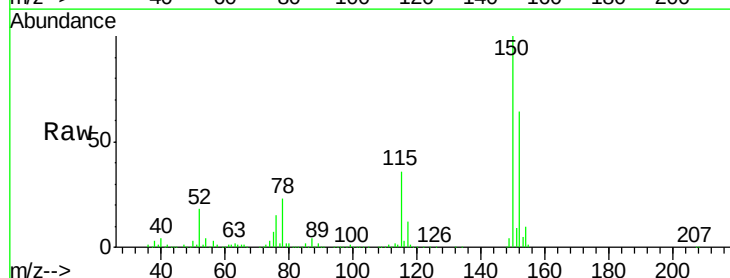
Tgt Ion:152 Resp: 678615

Ion Ratio Lower Upper

152 100

115 55.9 28.0 84.0

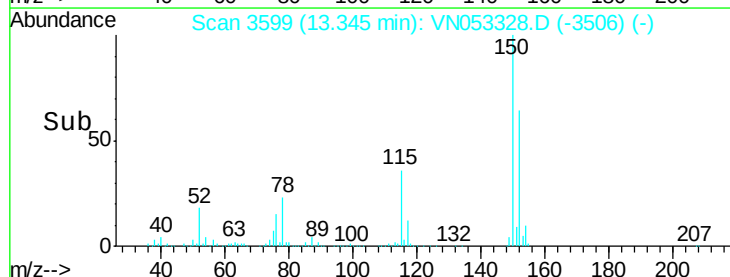
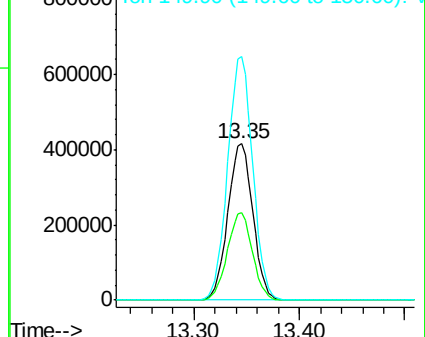
150 156.1 0.0 346.6

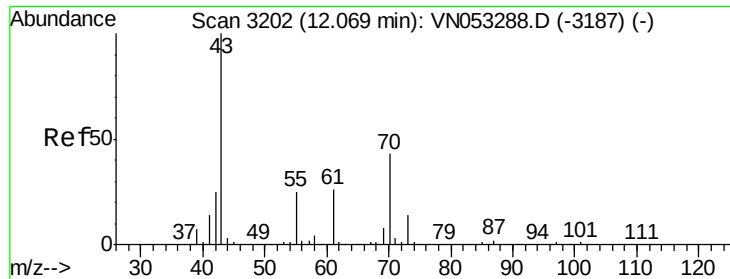


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 2.045 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

MH-445

Tot Ion: 43 Resp: 30851

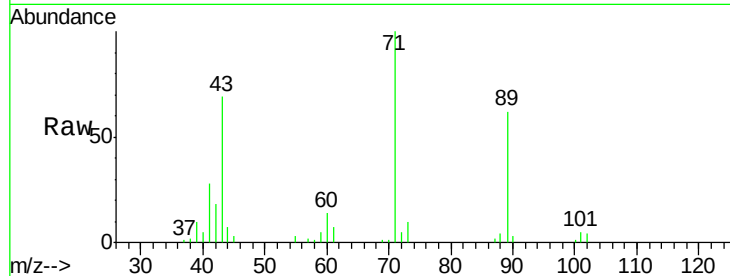
Ion Ratio Lower Upper

43 100

70 2.1 35.0 52.6#

55 4.8 20.0 30.0#

61 10.8 20.3 30.5#

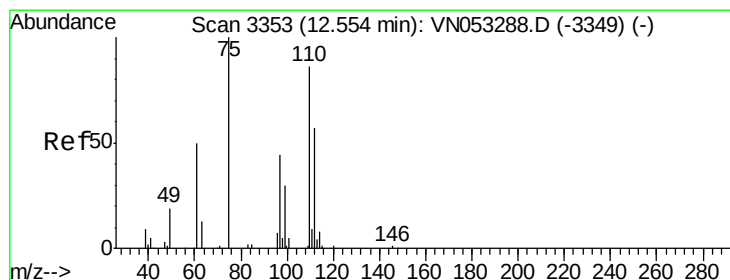
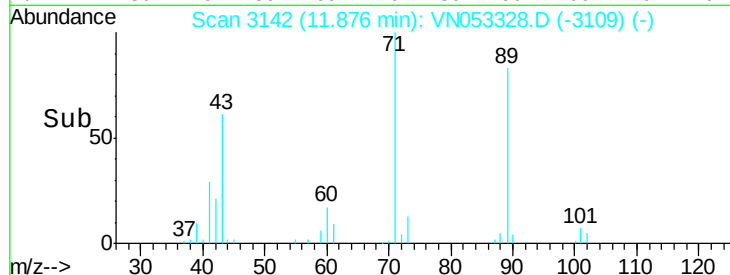
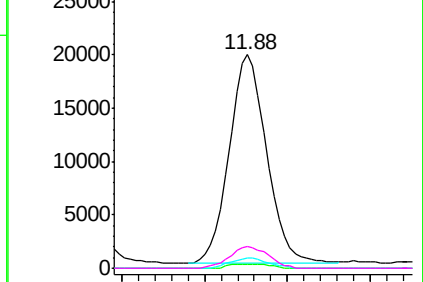


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 34.907 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053328.D

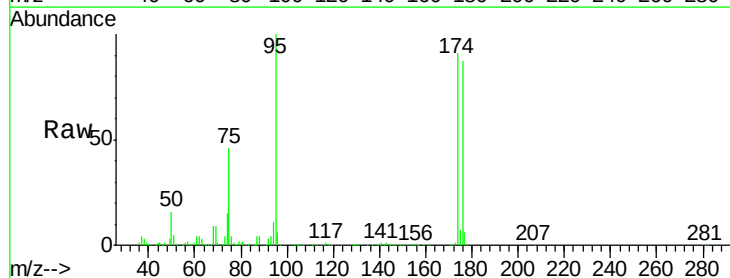
Acq: 9 Jan 2019 18:52

Tgt Ion: 75 Resp: 345509

Ion Ratio Lower Upper

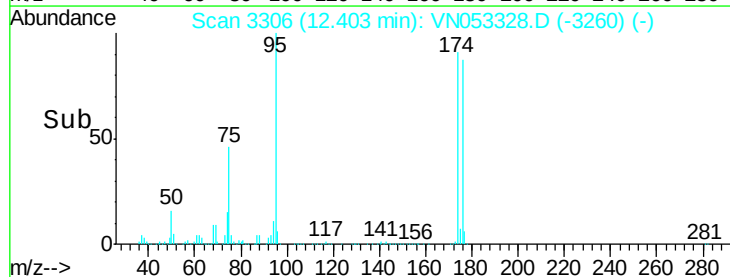
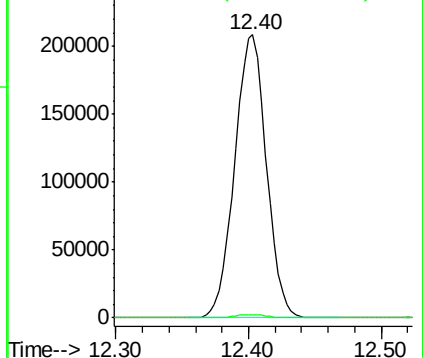
75 100

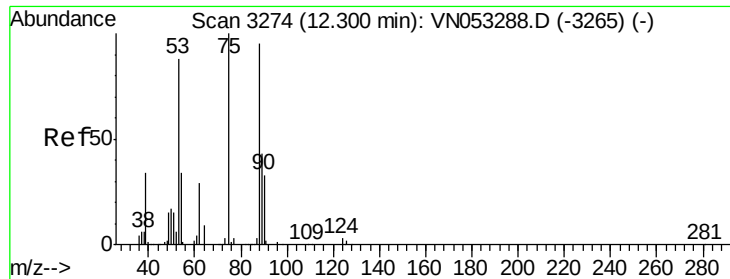
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 102.703 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053328.D

Acq: 9 Jan 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

MH-445

Tot Ion: 75 Resp: 345509

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 35.4 53.0#

