

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012219\
 Data File : VN053513.D
 Acq On : 22 Jan 2019 12:30
 Operator : JC/SP
 Sample : K1213-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 MANHOLE

Quant Time: Jan 23 02:52:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	863992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1349048	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1256673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	552487	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	426672	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
35) Dibromofluoromethane	7.59	113	401373	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
50) Toluene-d8	10.09	98	1660550	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	12.40	95	564788	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	

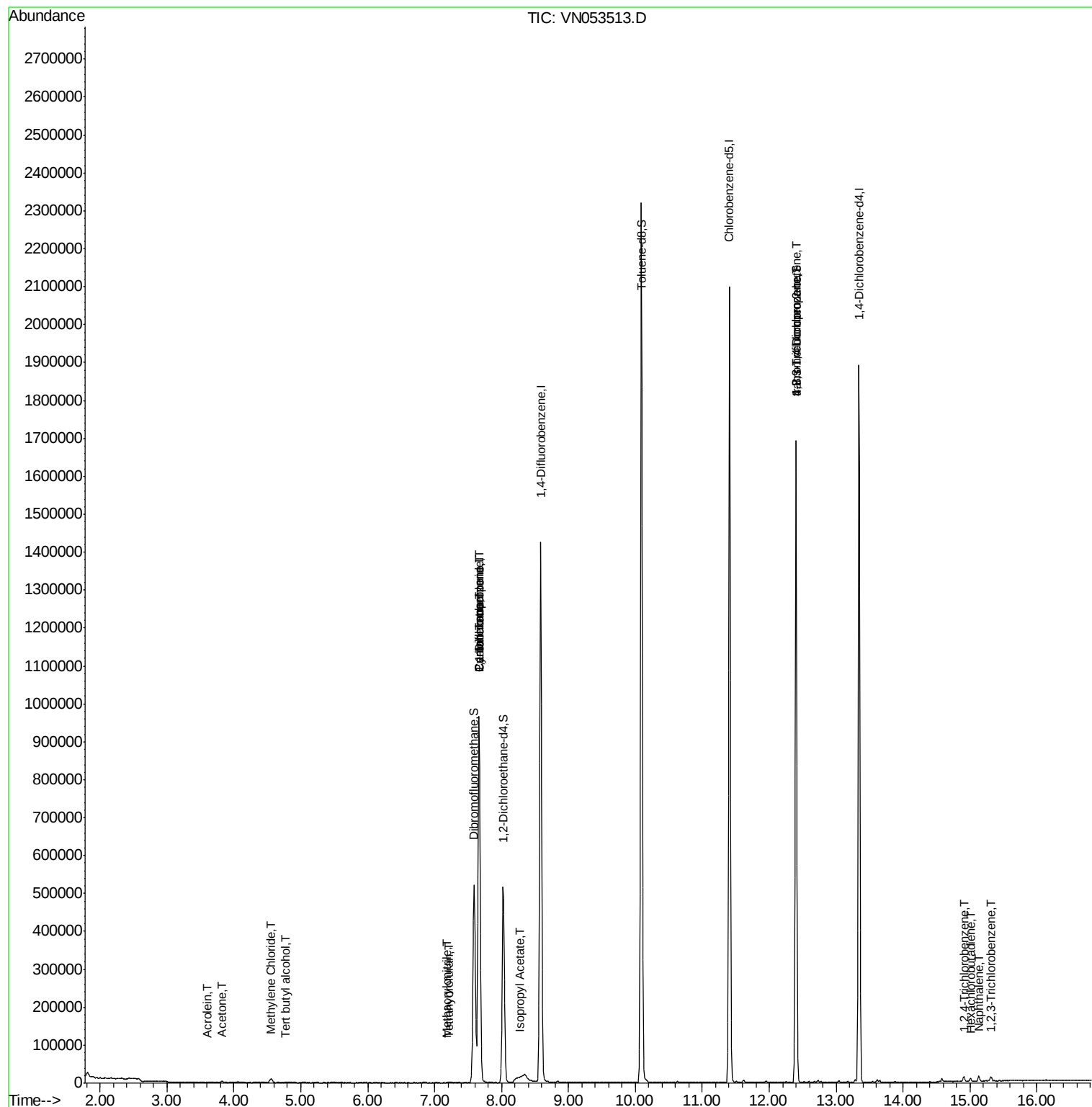
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	390	0.933	ug/l #	72
13) Acrolein	3.60	56	63	22.808	ug/l #	68
16) Acetone	3.82	43	5566	2.778	ug/l #	70
20) Methylene Chloride	4.56	84	8413	0.920	ug/l	90
29) Tetrahydrofuran	7.21	42	508	0.253	ug/l #	58
31) Cyclohexane	7.66	56	14448	0.742	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	55673	4.531	ug/l #	49
38) Carbon Tetrachloride	7.67	117	74241	6.383	ug/l #	16
41) Methacrylonitrile	7.18	41	96	0.690	ug/l #	40
43) Isopropyl Acetate	8.26	43	23713	1.866	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	266193	36.561	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	266193	90.373	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	4697	3.349	ug/l	96
94) Hexachlorobutadiene	15.01	225	1697	0.315	ug/l	92
95) Naphthalene	15.13	128	11442	4.728	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	5319	4.784	ug/l	96

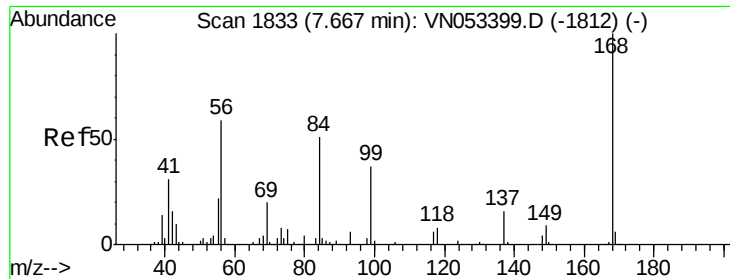
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN012219\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

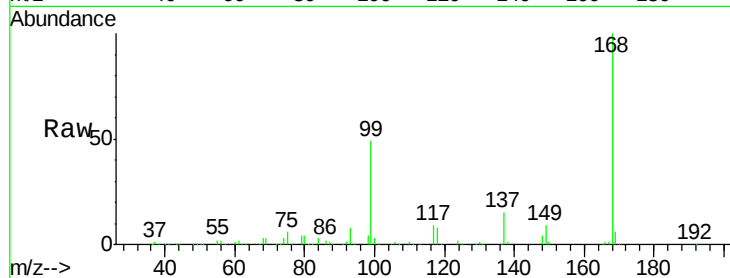
MANHOLE

Tot Ion:168 Resp: 863992

Ion Ratio Lower Upper

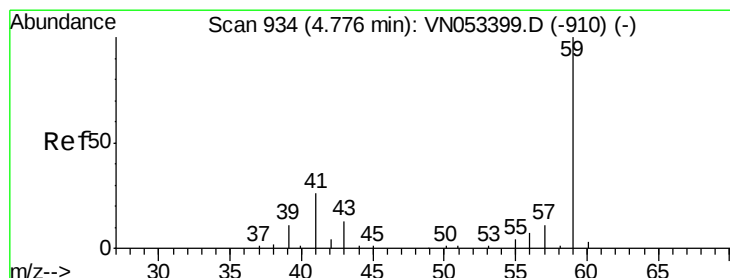
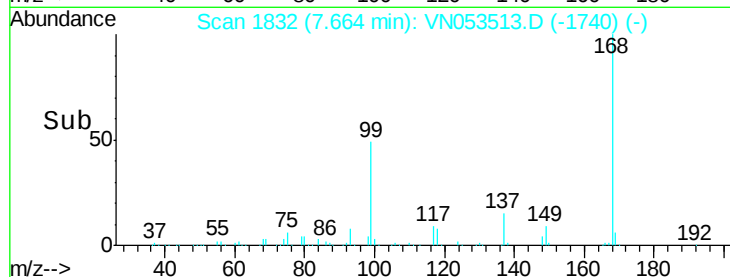
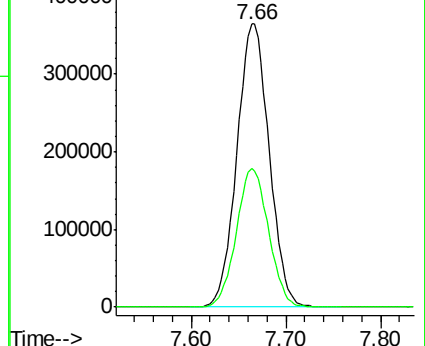
168 100

99 48.9 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.933 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN053513.D

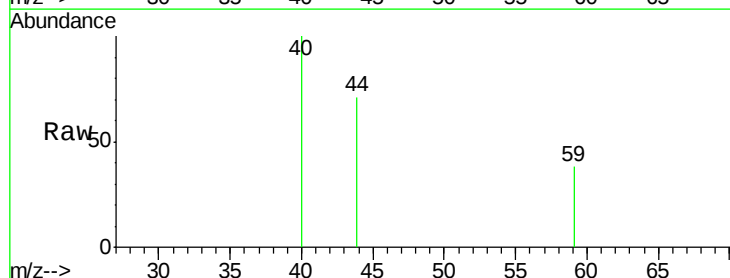
Acq: 22 Jan 2019 12:30

Tgt Ion: 59 Resp: 390

Ion Ratio Lower Upper

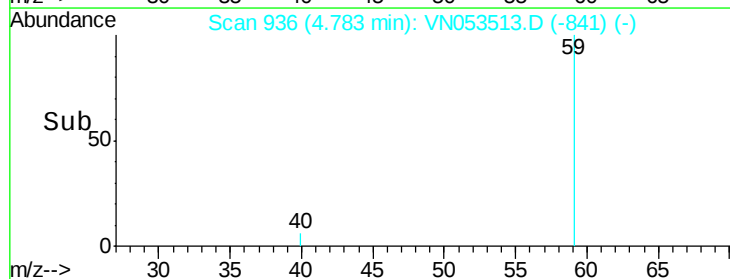
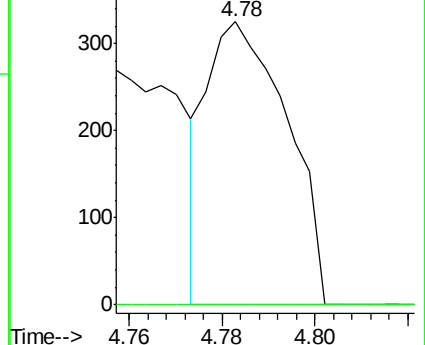
59 100

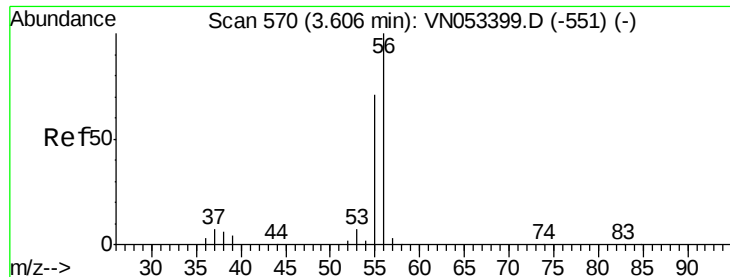
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 22.808 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

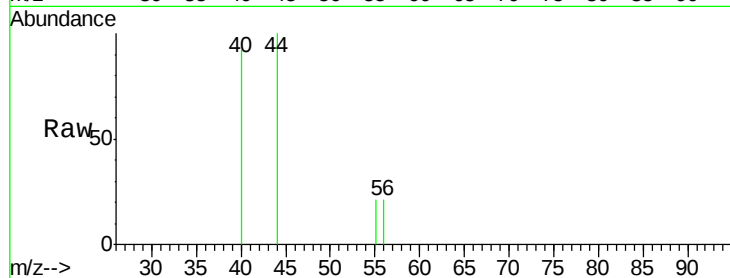
MANHOLE

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

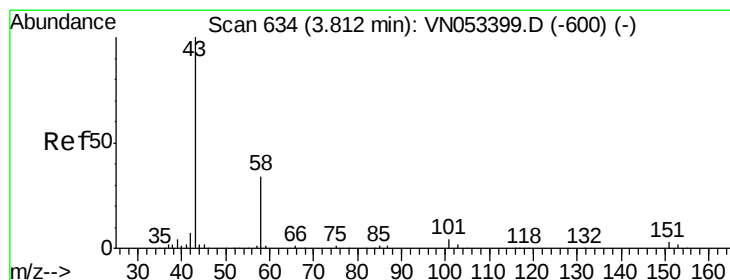
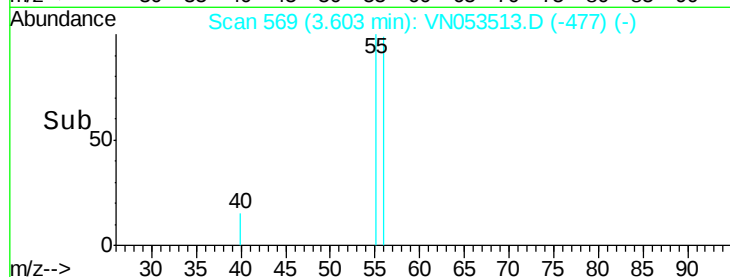
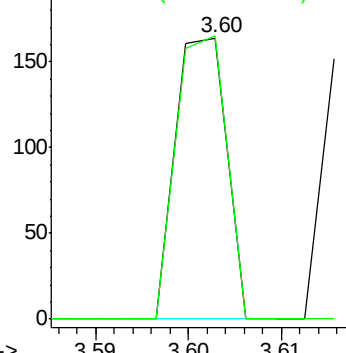
56 100

55 98.4 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 2.778 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053513.D

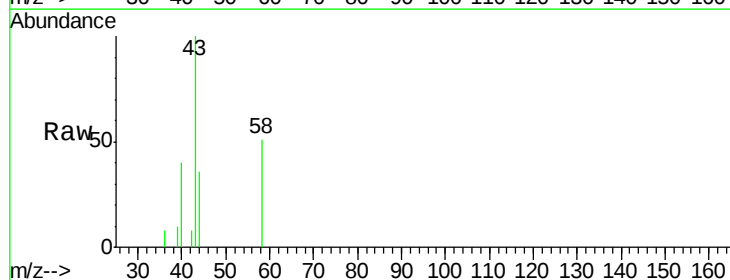
Acq: 22 Jan 2019 12:30

Tgt Ion: 43 Resp: 5566

Ion Ratio Lower Upper

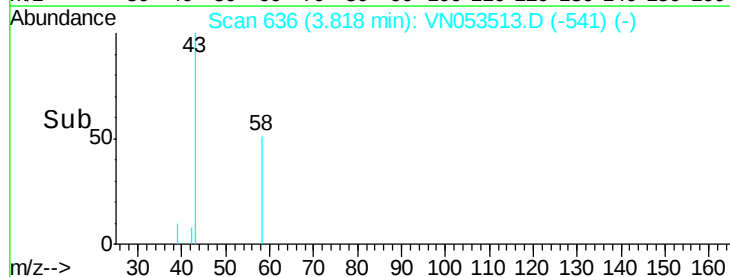
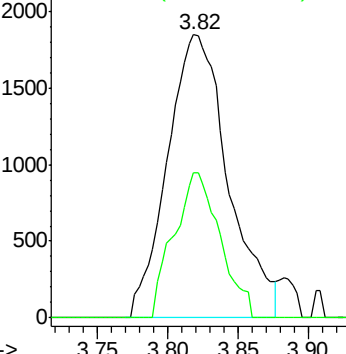
43 100

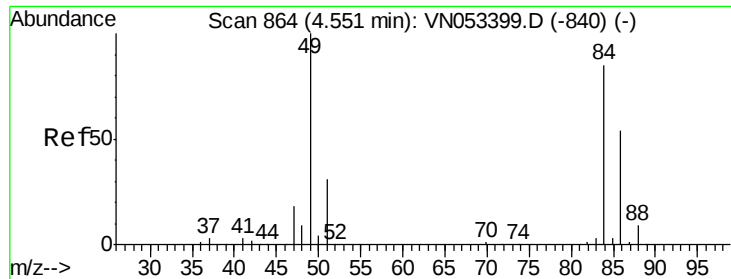
58 51.2 27.1 40.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#20

Methvlene Chloride

Concen: 0.920 ug/l

RT: 4.56 min Scan# 868

Delta R.T. 0.01 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

MANHOLE

Tot Ion: 84 Resp: 8413

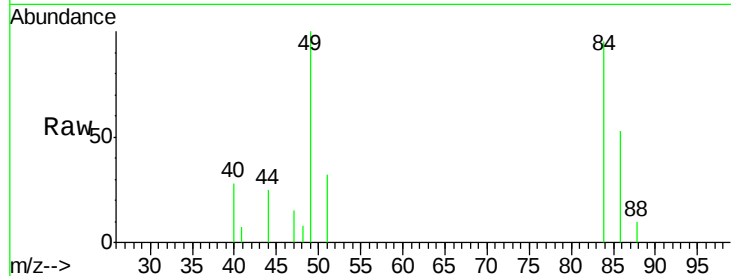
Ion Ratio Lower Upper

84 100

49 105.6 94.3 141.5

51 33.6 29.4 44.2

86 55.8 51.4 77.0

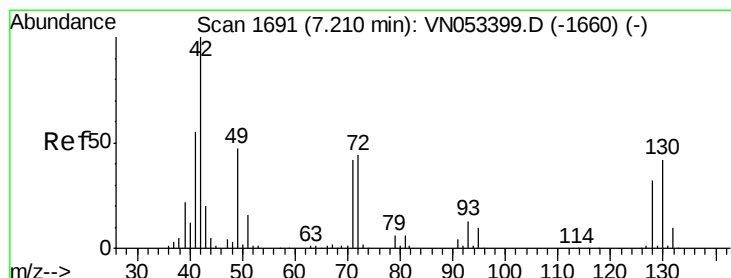
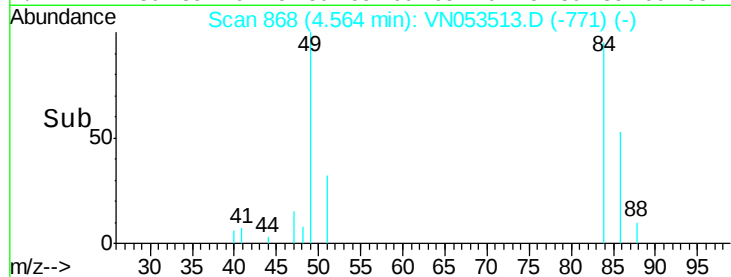
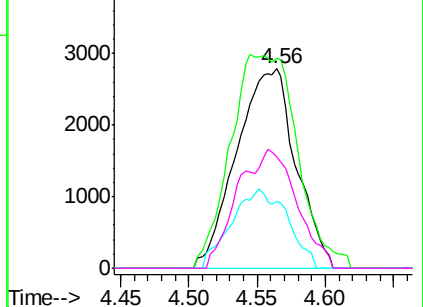


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#29

Tetrahydrofuran

Concen: 0.253 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

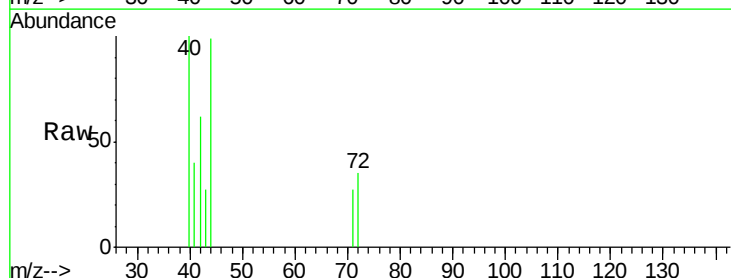
Tgt Ion: 42 Resp: 508

Ion Ratio Lower Upper

42 100

72 84.1 35.2 52.8#

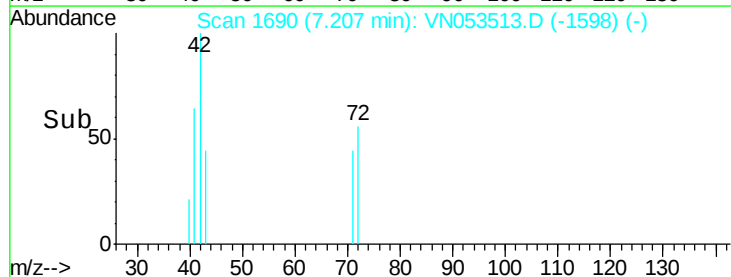
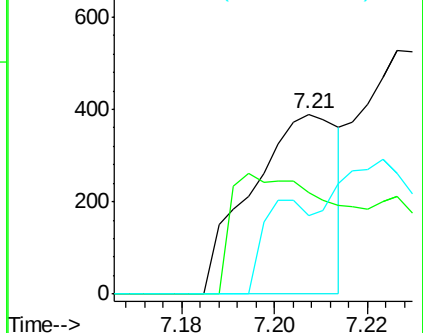
71 28.0 33.0 49.4#

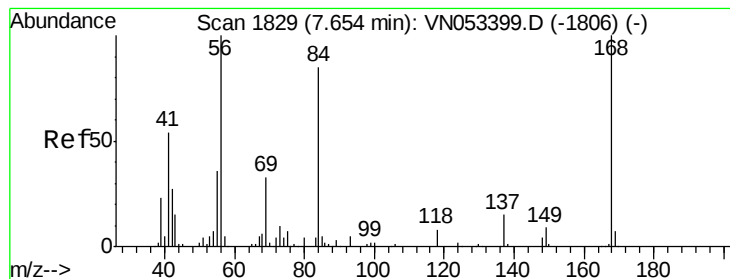


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.742 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

MANHOLE

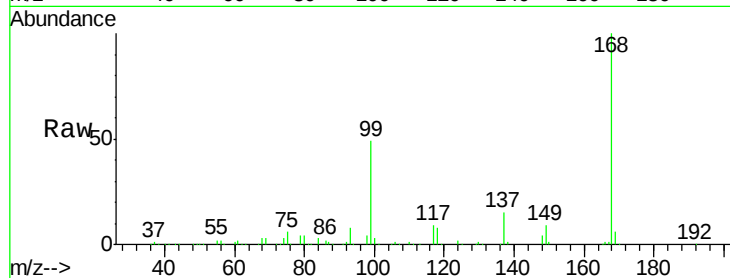
Tot Ion: 56 Resp: 14448

Ion Ratio Lower Upper

56 100

69 194.2 26.4 39.6#

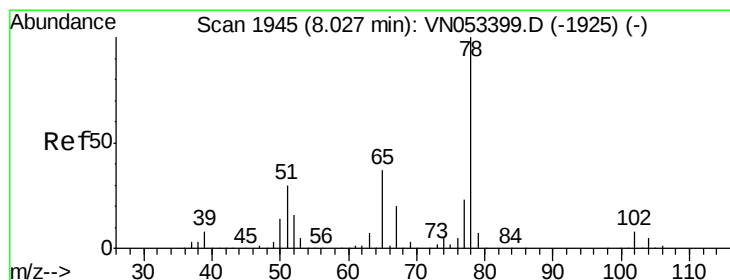
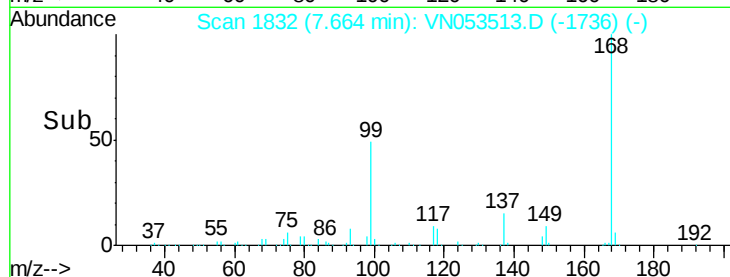
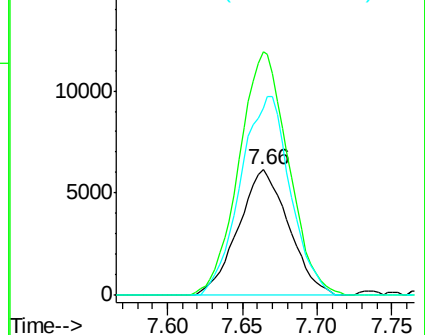
84 149.2 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN053513.D

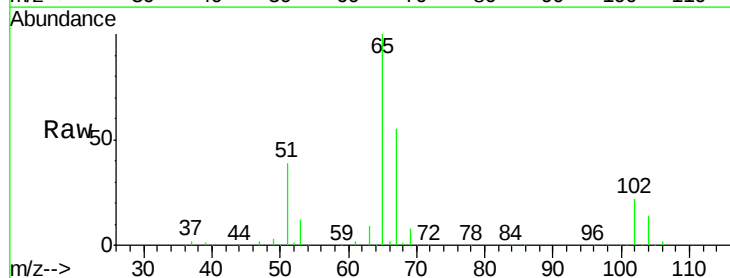
Acq: 22 Jan 2019 12:30

Tgt Ion: 65 Resp: 426672

Ion Ratio Lower Upper

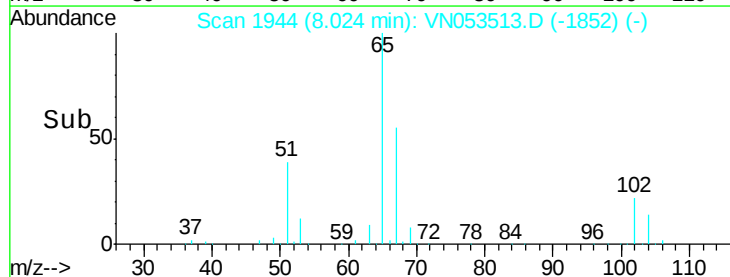
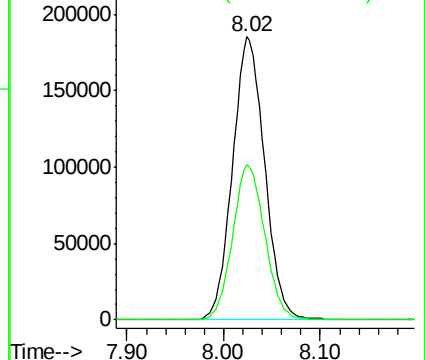
65 100

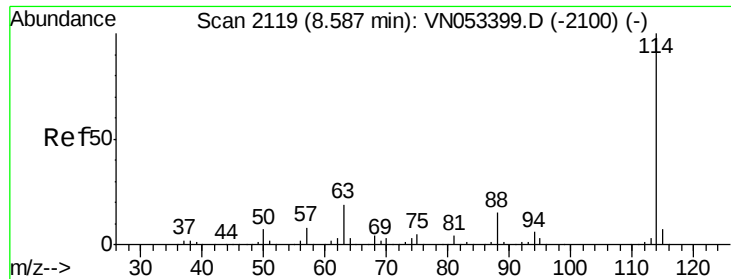
67 55.2 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC

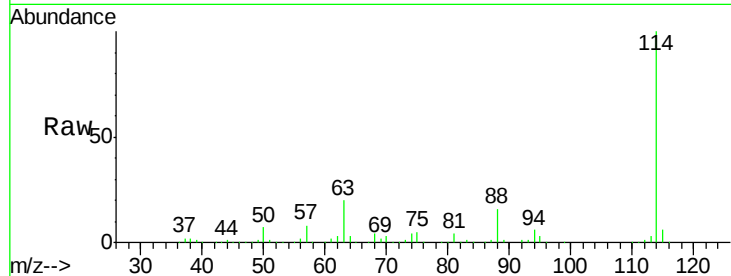




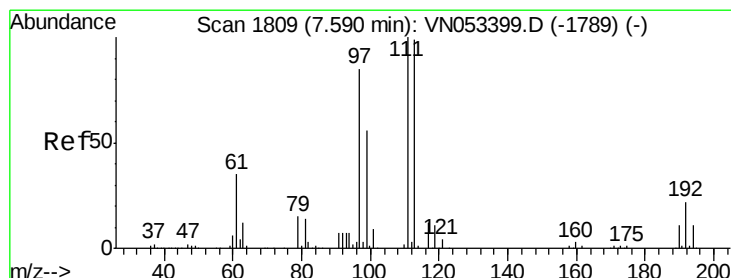
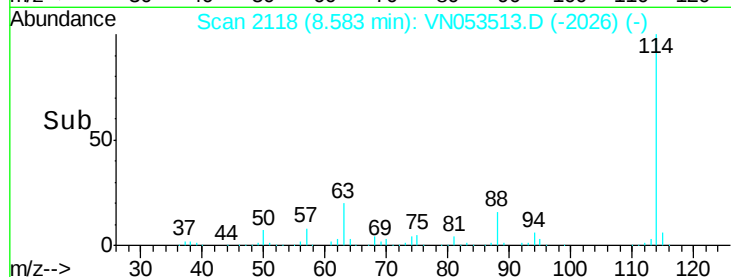
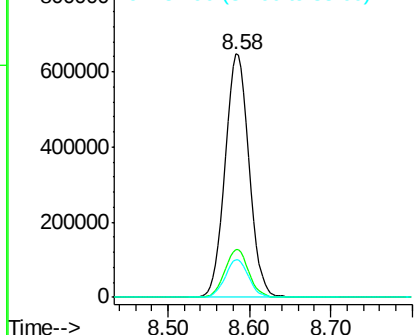
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN053513.D
Acq: 22 Jan 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

Tot Ion:114 Resp: 1349048
Ion Ratio Lower Upper
114 100
63 19.8 0.0 38.6
88 15.5 0.0 30.4

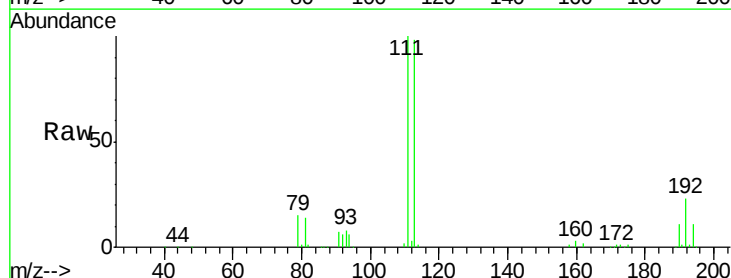


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

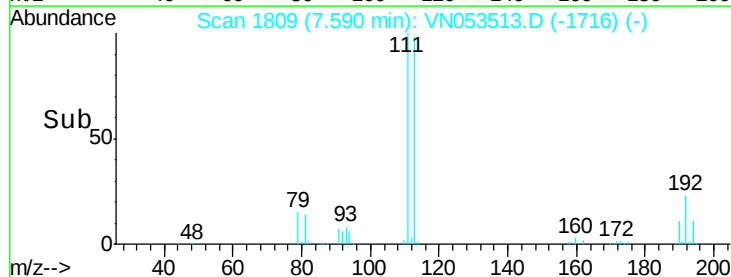
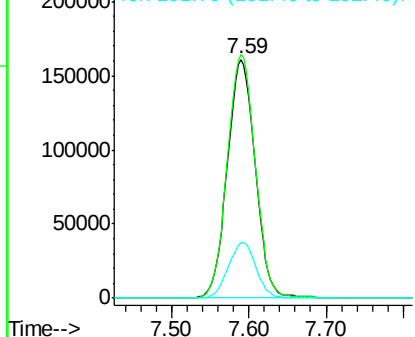


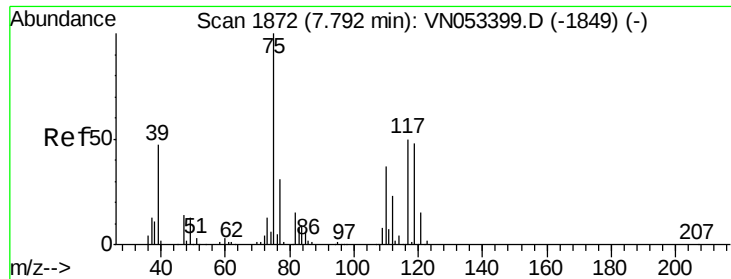
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053513.D
Acq: 22 Jan 2019 12:30

Tgt Ion:113 Resp: 401373
Ion Ratio Lower Upper
113 100
111 102.0 81.1 121.7
192 23.1 18.2 27.2



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

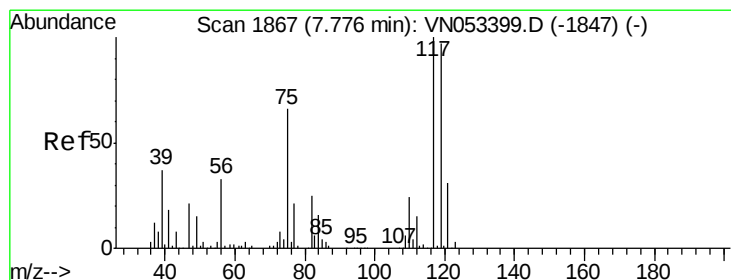
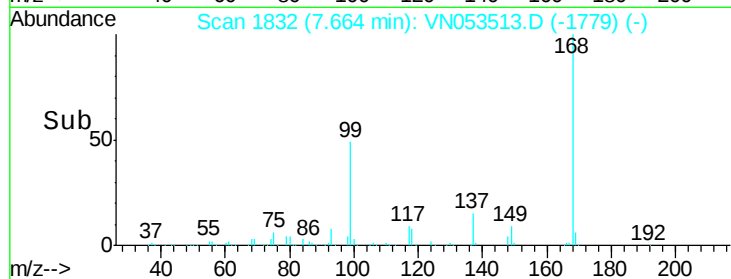
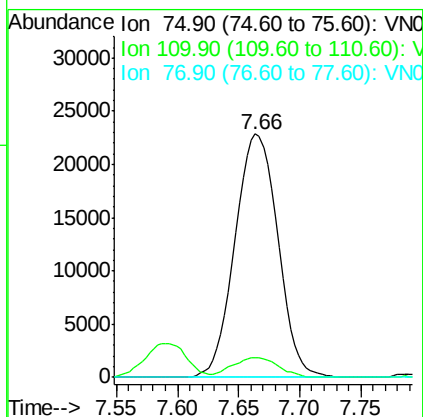
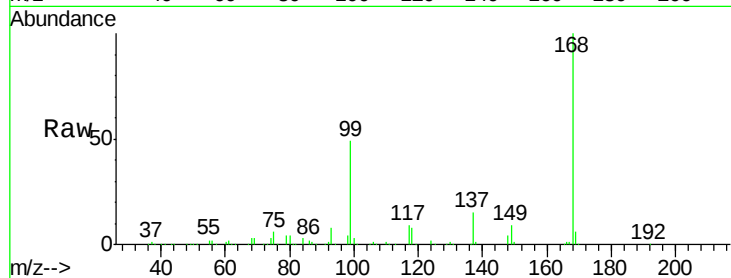




#36
 1,1-Dichloropropene
 Concen: 4.531 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053513.D
 Acq: 22 Jan 2019 12:30

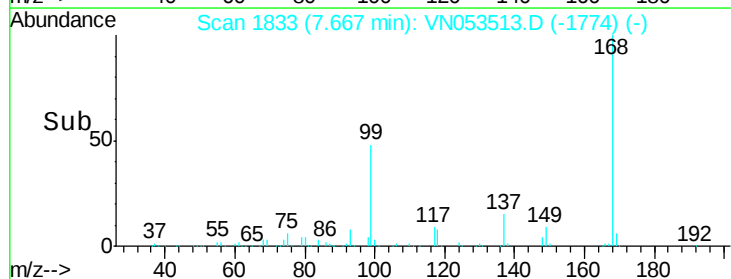
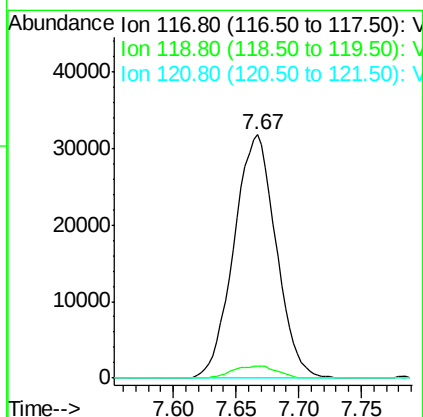
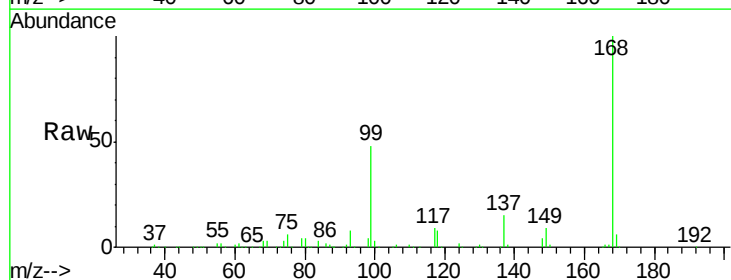
Instrument :
 MSVOA_N
 ClientSampleId :
 MANHOLE

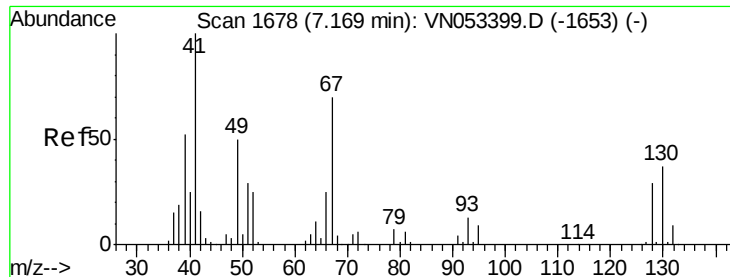
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.3#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.383 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053513.D
 Acq: 22 Jan 2019 12:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.2	115.8#
121	0.0	24.6	37.0#

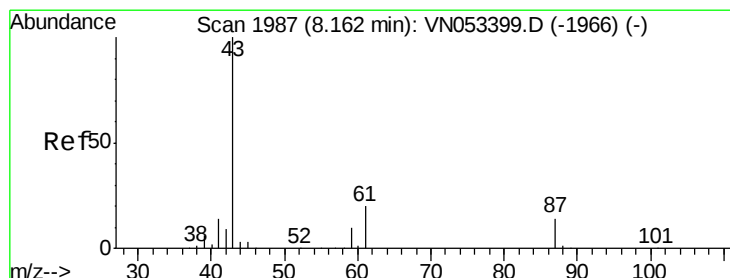
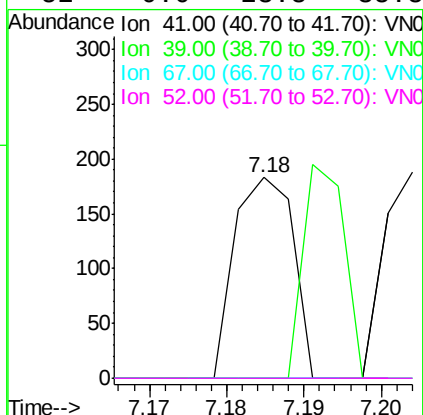
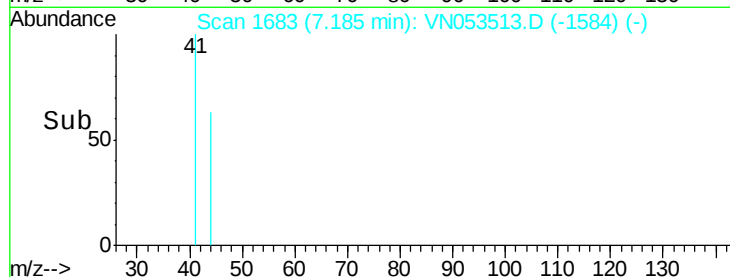
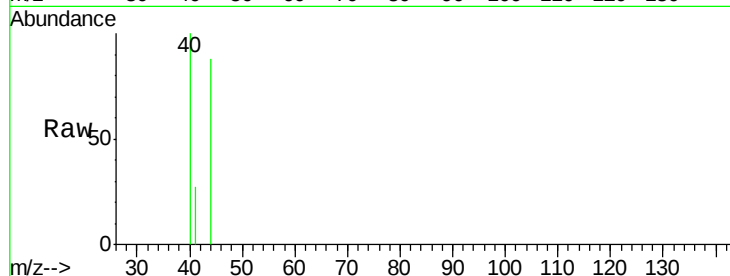




#41
Methacrylonitrile
Concen: 0.690 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.02 min
Lab File: VN053513.D
Acq: 22 Jan 2019 12:30

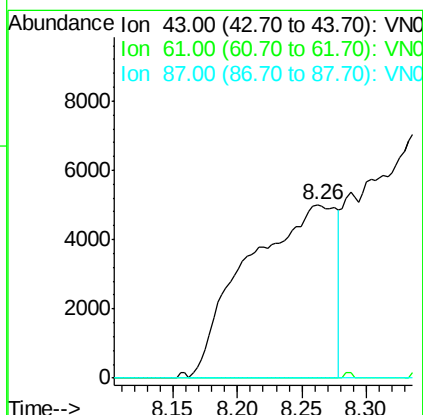
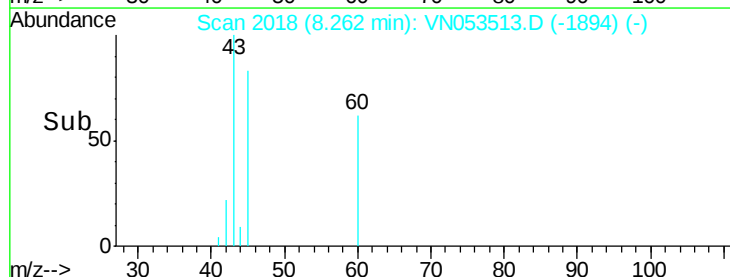
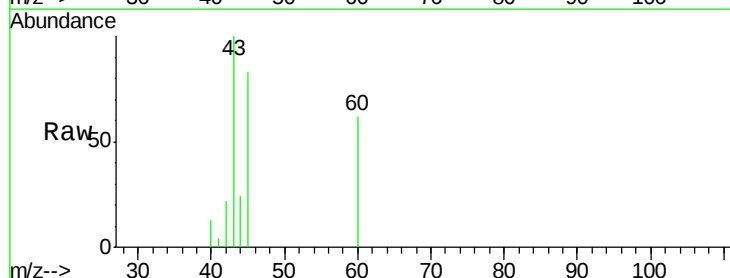
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

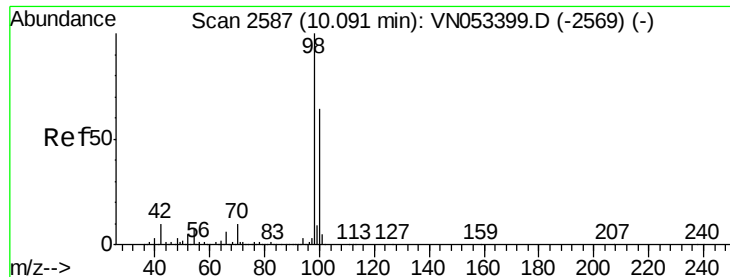
Tot Ion: 41 Resp: 96
Ion Ratio Lower Upper
41 100
39 74.0 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 1.866 ug/l
RT: 8.26 min Scan# 2018
Delta R.T. 0.10 min
Lab File: VN053513.D
Acq: 22 Jan 2019 12:30

Tgt Ion: 43 Resp: 23713
Ion Ratio Lower Upper
43 100
61 0.0 23.9 35.9#
87 0.0 11.0 16.6#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

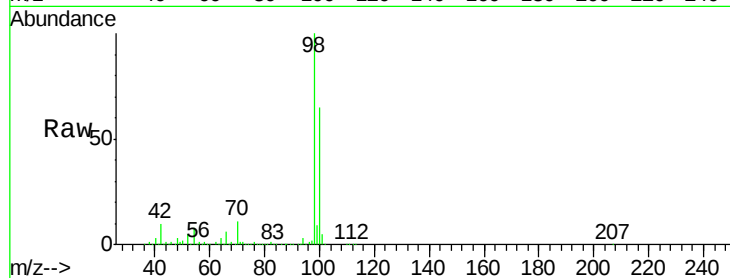
MANHOLE

Tot Ion: 98 Resp: 1660550

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

800000

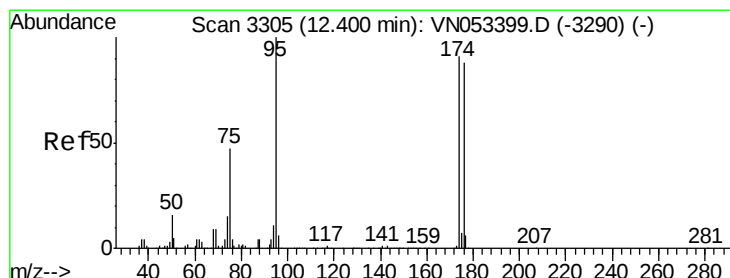
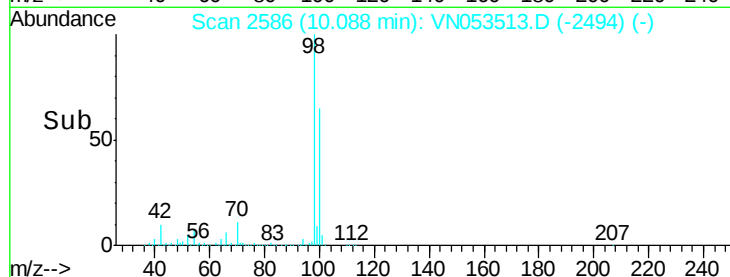
600000

400000

200000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

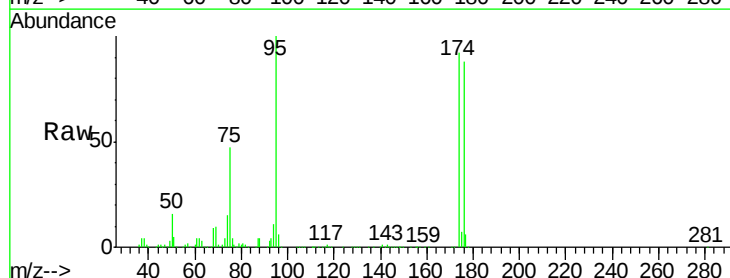
Tgt Ion: 95 Resp: 564788

Ion Ratio Lower Upper

95 100

174 92.0 0.0 183.2

176 89.0 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

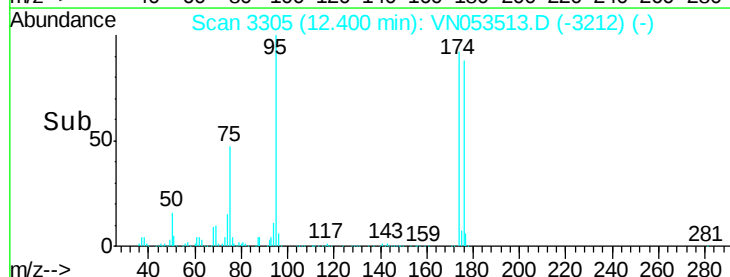
300000

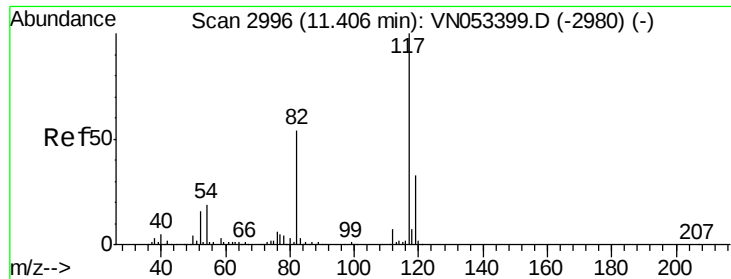
200000

100000

0

Time-->

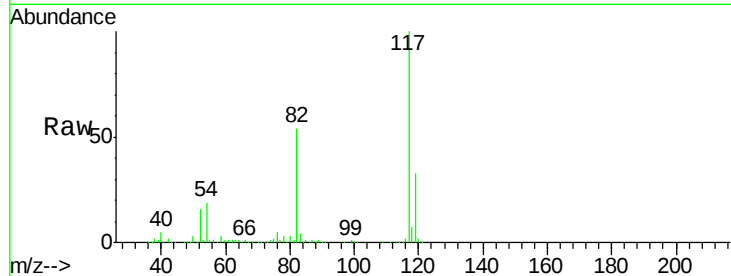




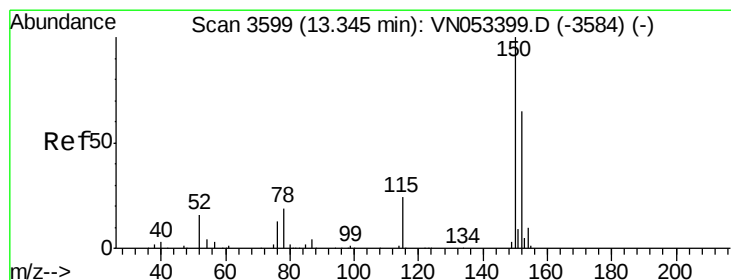
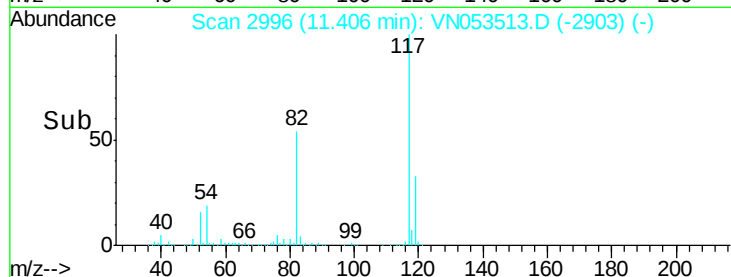
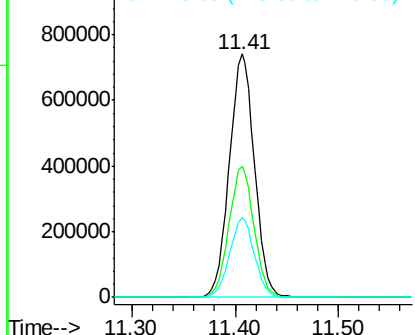
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053513.D
Acq: 22 Jan 2019 12:30

Instrument :
MSVOA_N
ClientSampled :
MANHOLE

Tot Ion:117 Resp: 1256673
Ion Ratio Lower Upper
117 100
82 53.9 42.9 64.3
119 32.6 26.0 39.0

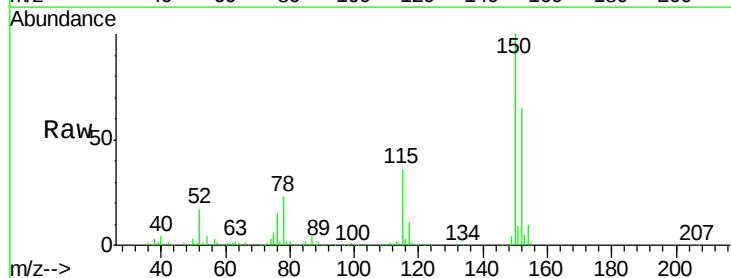


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

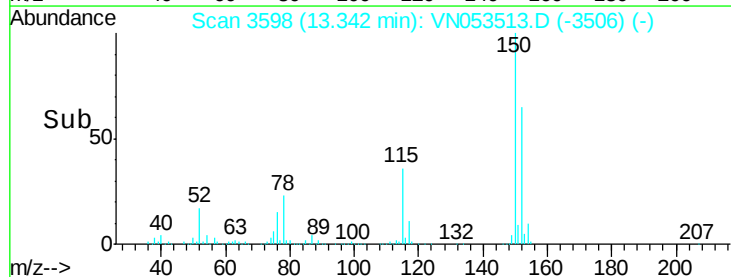
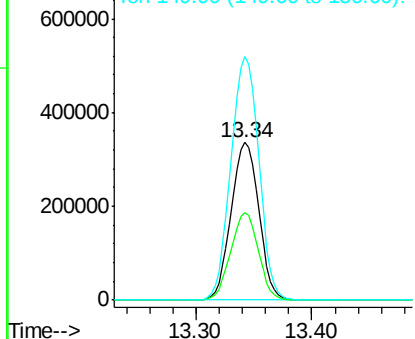


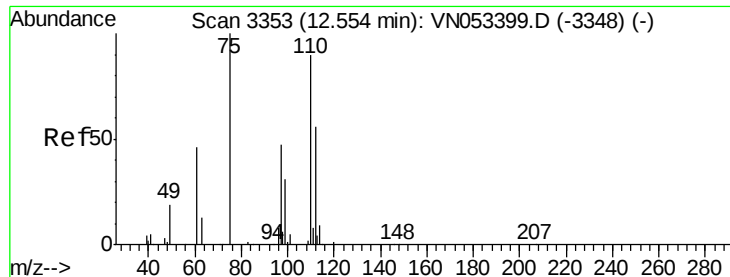
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053513.D
Acq: 22 Jan 2019 12:30

Tgt Ion:152 Resp: 552487
Ion Ratio Lower Upper
152 100
115 55.2 27.8 83.4
150 156.4 0.0 349.0



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: 36.561 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

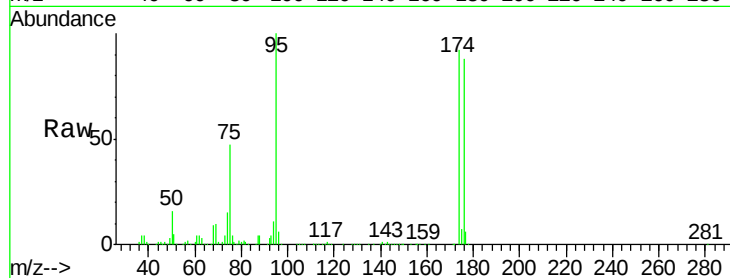
MANHOLE

Tot Ion: 75 Resp: 266193

Ion Ratio Lower Upper

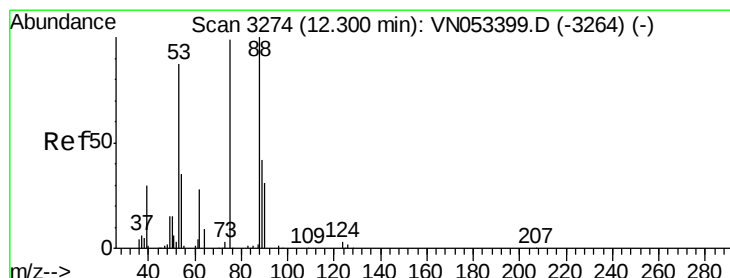
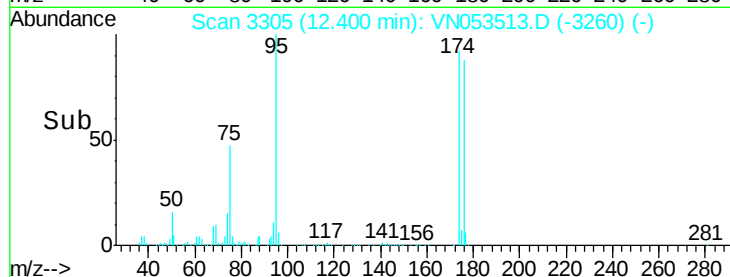
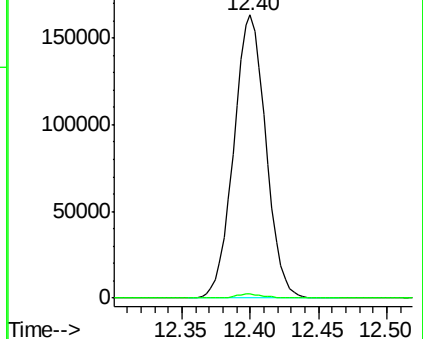
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 90.373 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

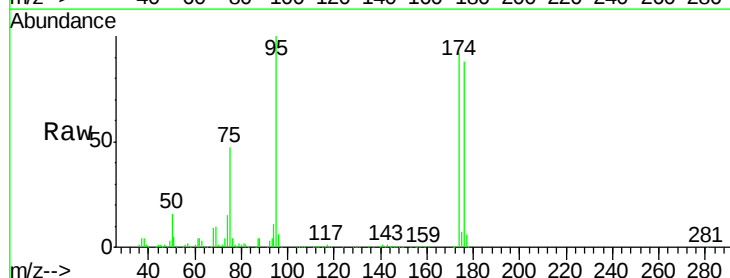
Tgt Ion: 75 Resp: 266193

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

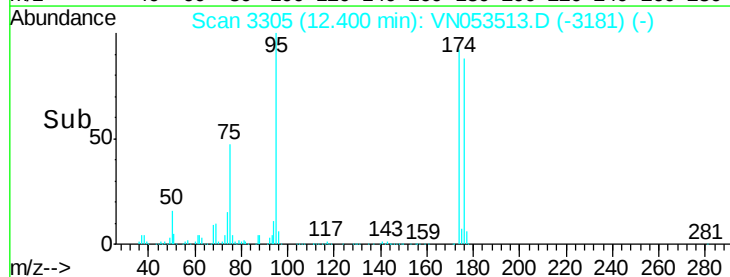
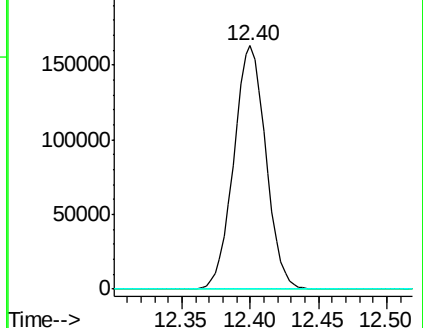
89 0.0 35.6 53.4#

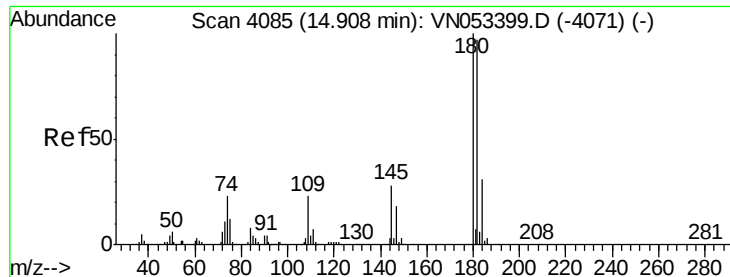


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

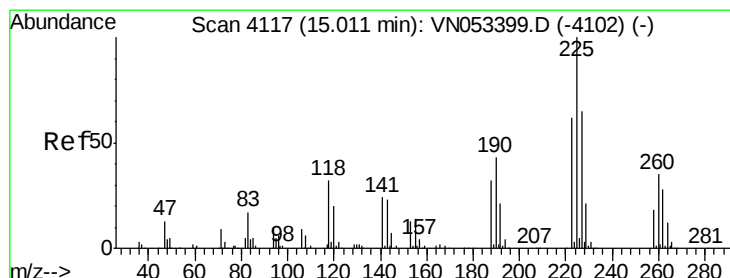
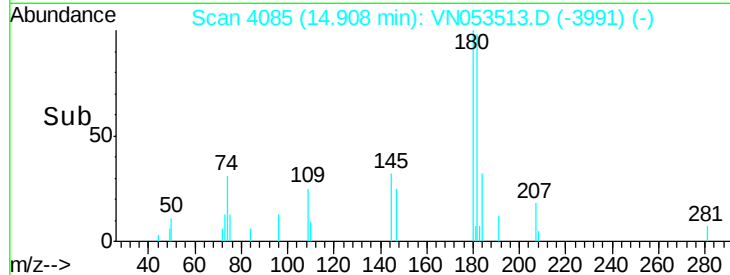
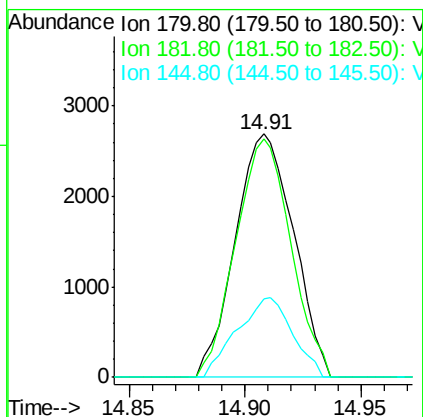
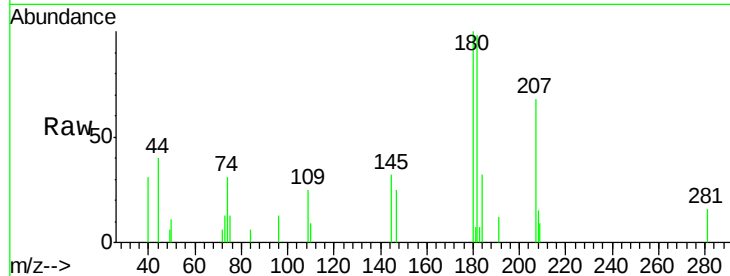




#93
 1,2,4-Trichlorobenzene
 Concen: 3.349 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053513.D
 Acq: 22 Jan 2019 12:30

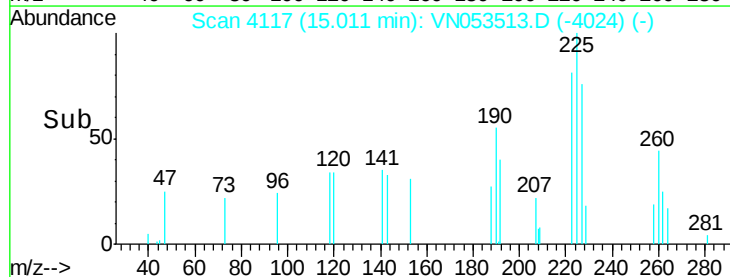
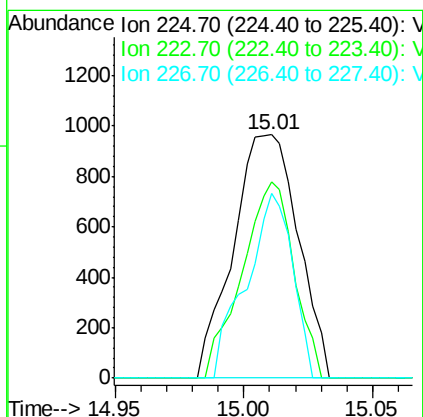
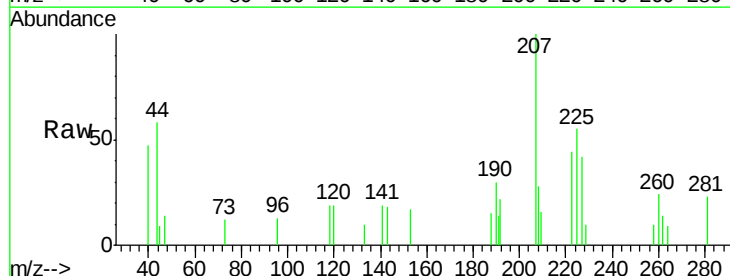
Instrument :
 MSVOA_N
 ClientSampleId :
 MANHOLE

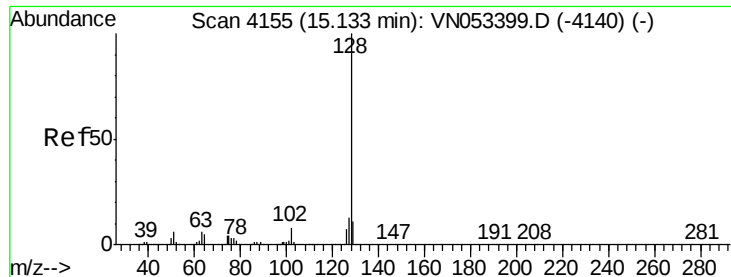
Tot Ion:180 Resp: 4697
 Ion Ratio Lower Upper
 180 100
 182 92.8 48.1 144.3
 145 31.3 13.9 41.6



#94
 Hexachlorobutadiene
 Concen: 0.315 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053513.D
 Acq: 22 Jan 2019 12:30

Tgt Ion:225 Resp: 1697
 Ion Ratio Lower Upper
 225 100
 223 64.5 31.1 93.2
 227 54.4 32.0 96.2





#95

Naphthalene

Concen: 4.728 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

MANHOLE

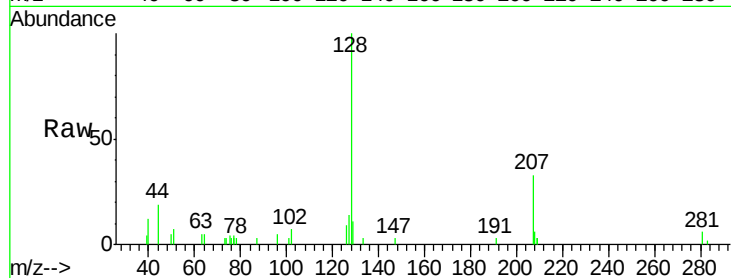
Tot Ion:128 Resp: 11442

Ion Ratio Lower Upper

128 100

127 13.3 10.3 15.5

129 5.7 8.6 13.0#

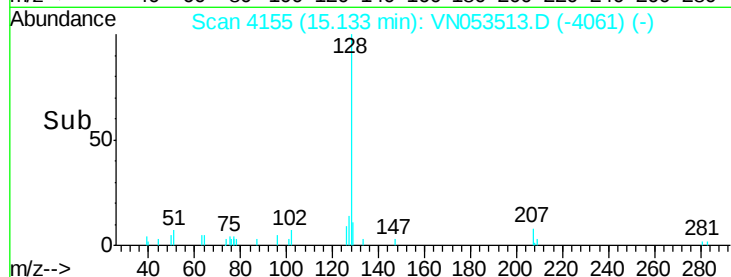


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time--> 15.05 15.10 15.15 15.20



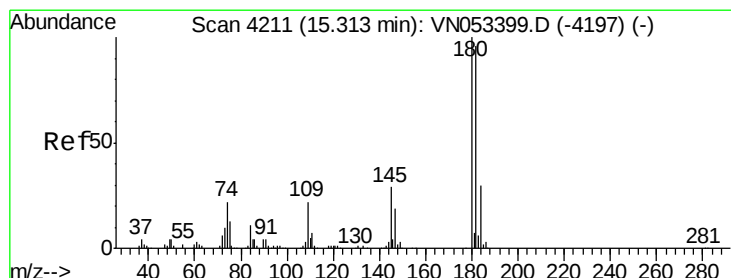
Abundance

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

Time--> 15.05 15.10 15.15 15.20



#96

1,2,3-Trichlorobenzene

Concen: 4.784 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053513.D

Acq: 22 Jan 2019 12:30

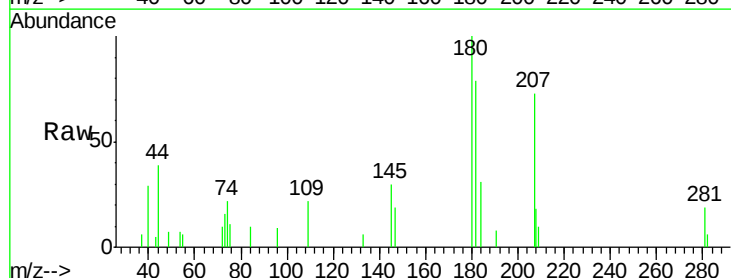
Tgt Ion:180 Resp: 5319

Ion Ratio Lower Upper

180 100

182 91.3 47.9 143.8

145 28.1 14.7 44.1

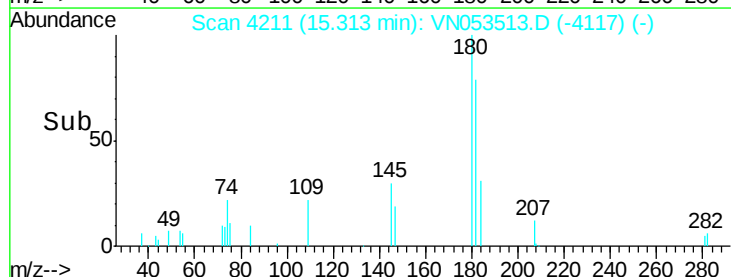


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

Time--> 15.25 15.30 15.35



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

Time--> 15.25 15.30 15.35