

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011019\
 Data File : VN053335.D
 Acq On : 10 Jan 2019 12:09
 Operator : MD\SY
 Sample : J6002-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 X2E76

Quant Time: Jan 10 15:15:48 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	945198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1430373	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1261462	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	579364	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	487527	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
35) Dibromofluoromethane	7.59	113	425263	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
50) Toluene-d8	10.09	98	1735205	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
62) 4-Bromofluorobenzene	12.40	95	587429	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	

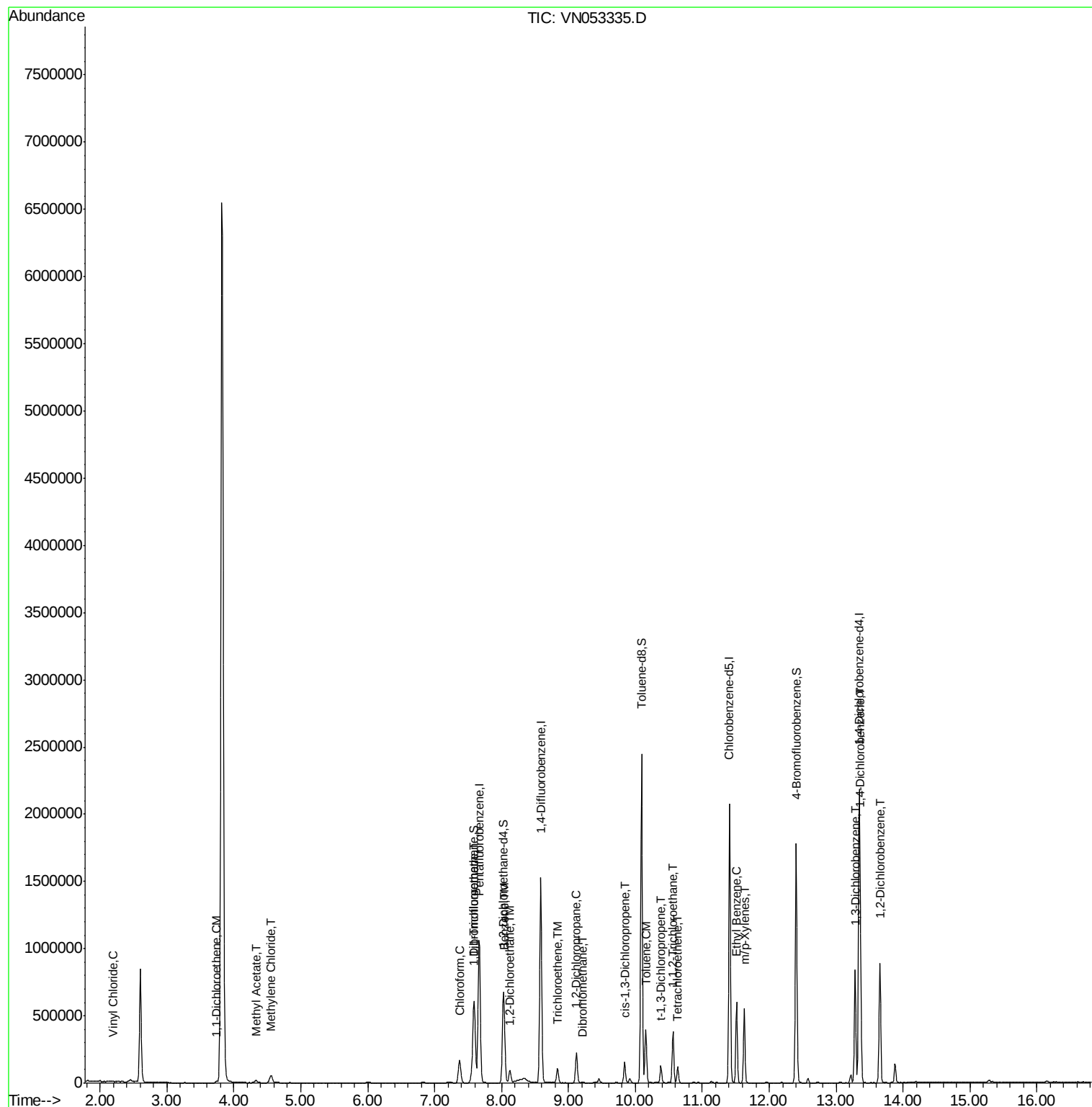
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	2707	0.244	ug/l	100
12) 1,1-Dichloroethene	3.74	96	7732	0.877	ug/l	98
18) Methyl Acetate	4.33	43	37187	4.178	ug/l	95
20) Methylene Chloride	4.55	84	43108	4.082	ug/l	97
30) Chloroform	7.37	83	184806	10.631	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	94073	6.494	ug/l	98
40) Benzene	8.04	78	147467	3.615	ug/l	99
42) 1,2-Dichloroethane	8.12	62	87677	7.246	ug/l	99
44) Trichloroethene	8.83	130	42951	3.835	ug/l	95
45) 1,2-Dichloropropane	9.12	63	101315	9.470	ug/l	96
46) Dibromomethane	9.21	93	2493	0.400	ug/l	93
52) Toluene	10.16	92	170180	6.801	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	75454	5.674	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	94556	6.153	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	128326	13.946	ug/l	99
64) Tetrachloroethene	10.63	164	30108	2.536	ug/l	98
67) Ethyl Benzene	11.51	91	454673	9.764	ug/l	100
68) m/p-Xylenes	11.63	106	159665	9.119	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	381029	18.794	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	314853	15.656	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	411114	21.649	ug/l	99

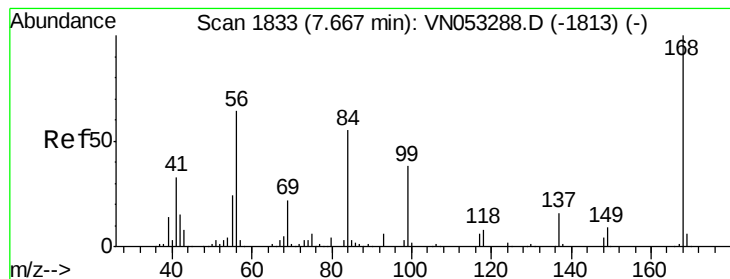
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jan 07 09:34:27 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: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampled :

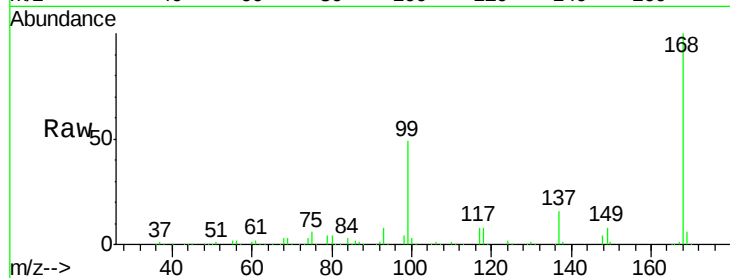
X2E76

Tot Ion:168 Resp: 945198

Ion Ratio Lower Upper

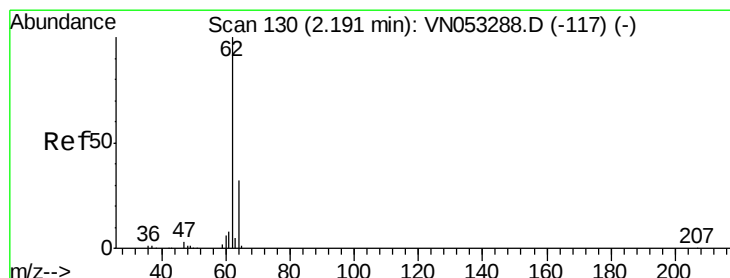
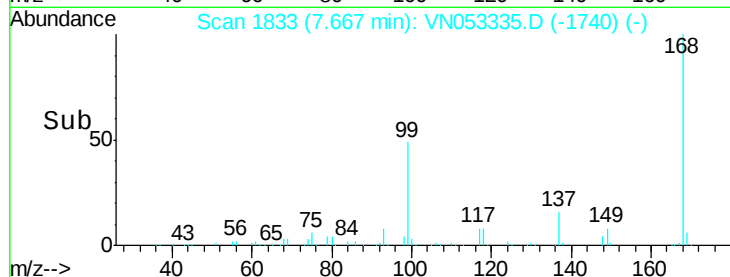
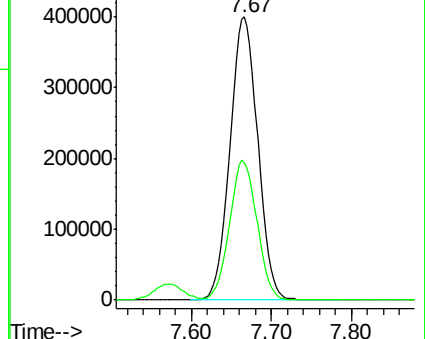
168 100

99 48.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#4

Vinyl Chloride

Concen: 0.244 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN053335.D

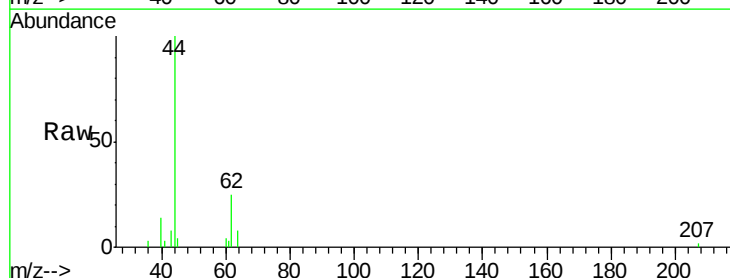
Acq: 10 Jan 2019 12:09

Tgt Ion: 62 Resp: 2707

Ion Ratio Lower Upper

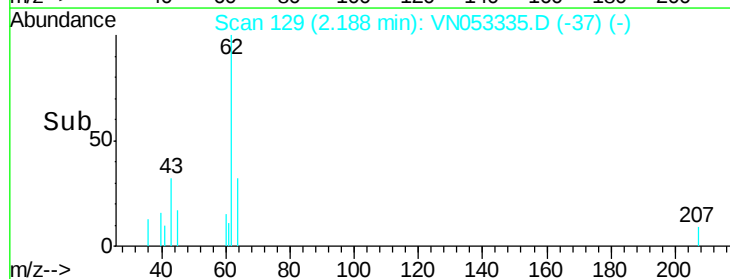
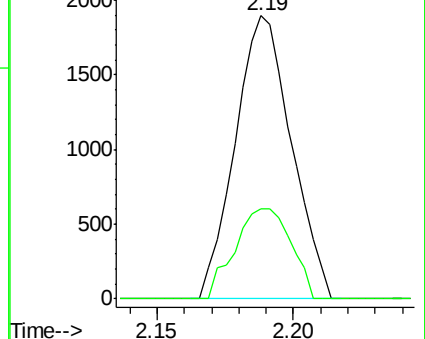
62 100

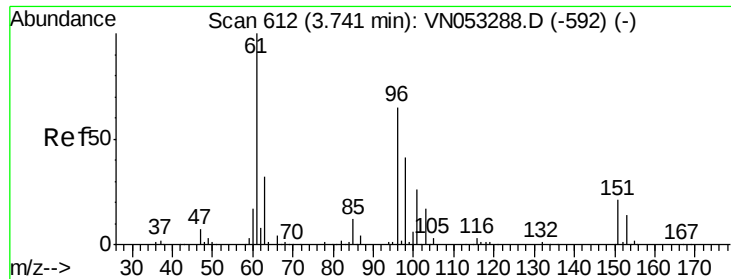
64 31.8 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#12

1,1-Dichloroethene

Concen: 0.877 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampled :

X2E76

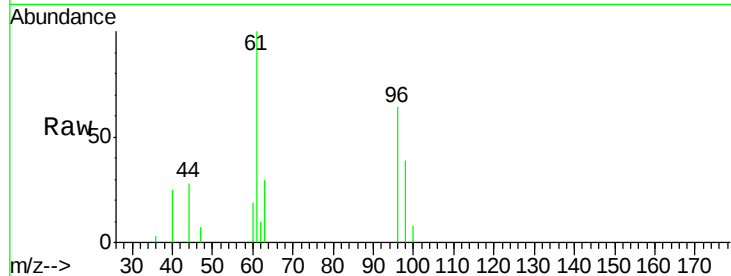
Tot Ion: 96 Resp: 7732

Ion Ratio Lower Upper

96 100

61 156.0 123.2 184.8

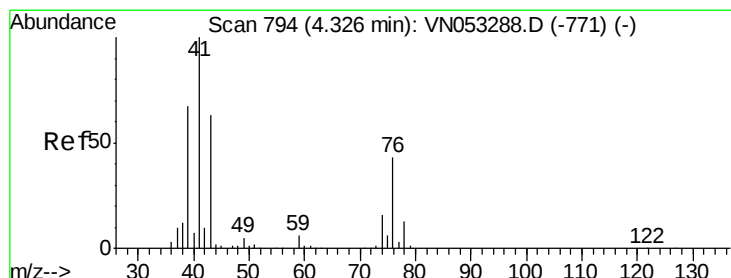
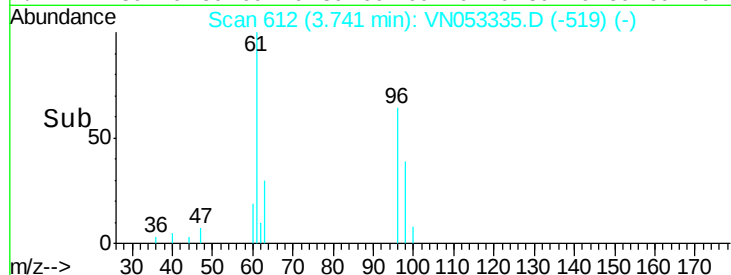
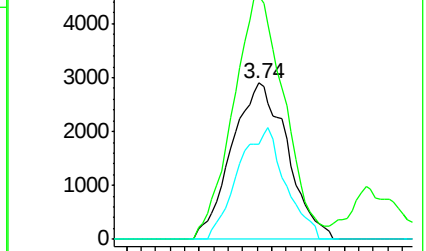
98 61.2 50.5 75.7



Abundance Ion 95.90 (95.60 to 96.60): VN053335.D (-519) (-)

Ion 60.90 (60.60 to 61.60): VN053335.D (-519) (-)

Ion 97.90 (97.60 to 98.60): VN053335.D (-519) (-)



#18

Methyl Acetate

Concen: 4.178 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053335.D

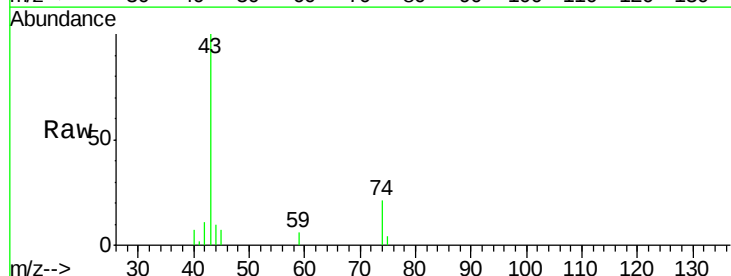
Acq: 10 Jan 2019 12:09

Tgt Ion: 43 Resp: 37187

Ion Ratio Lower Upper

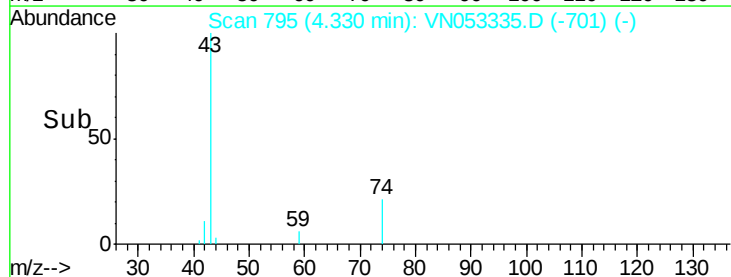
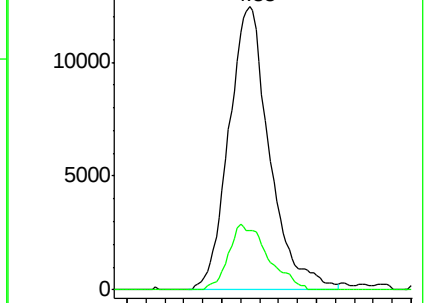
43 100

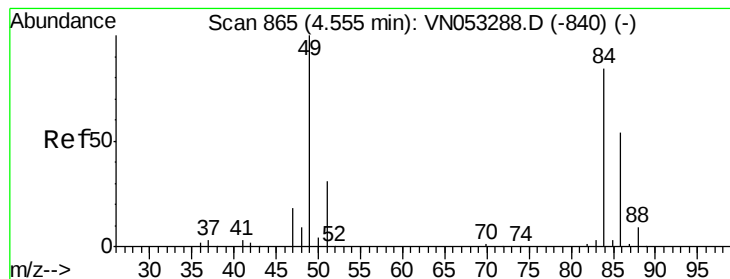
74 22.5 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN053335.D (-701) (-)

Ion 74.00 (73.70 to 74.70): VN053335.D (-701) (-)





#20

Methvlene Chloride

Concen: 4.082 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampled :

X2E76

Tot Ion: 84 Resp: 43108

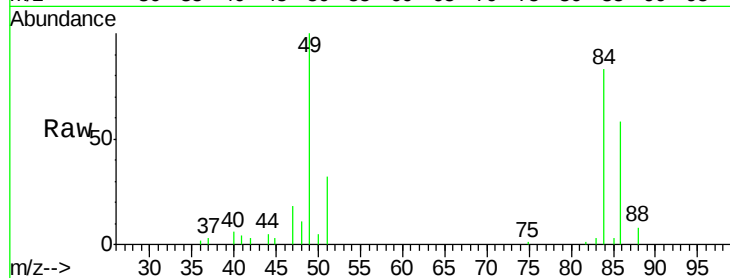
Ion Ratio Lower Upper

84 100

49 120.9 95.3 142.9

51 38.3 29.0 43.6

86 69.6 51.7 77.5

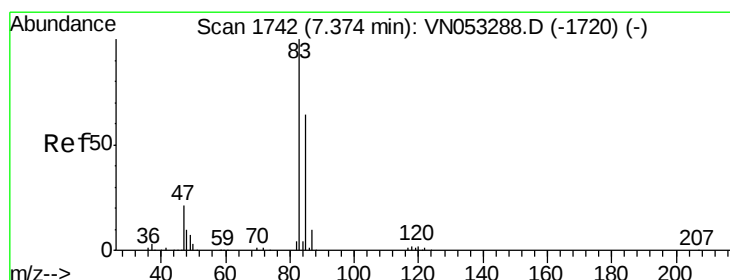
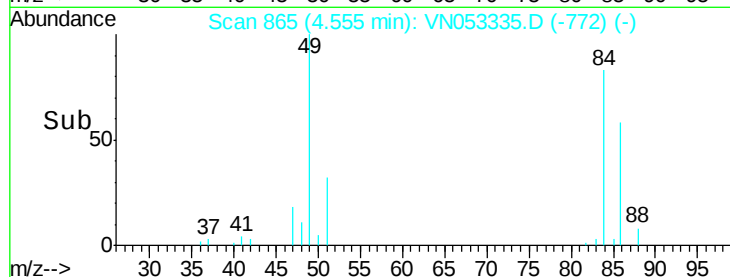
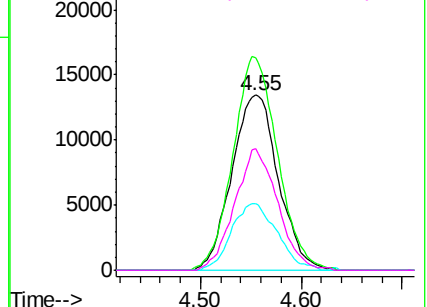


Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC



#30

Chloroform

Concen: 10.631 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN053335.D

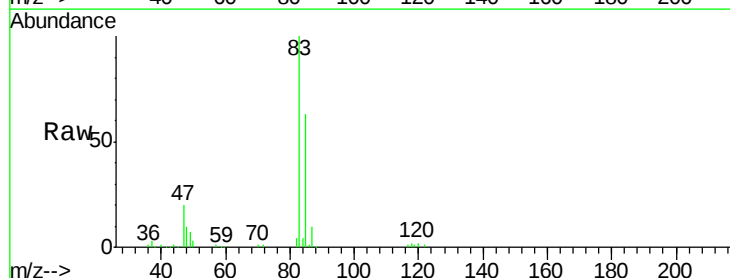
Acq: 10 Jan 2019 12:09

Tgt Ion: 83 Resp: 184806

Ion Ratio Lower Upper

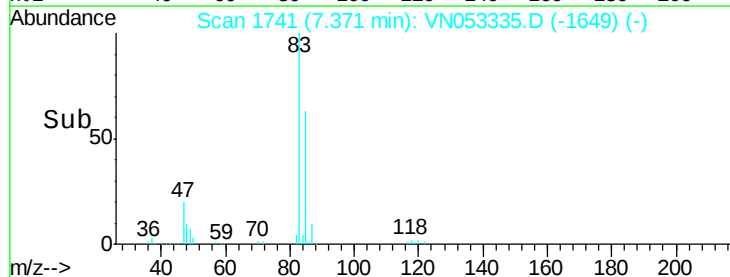
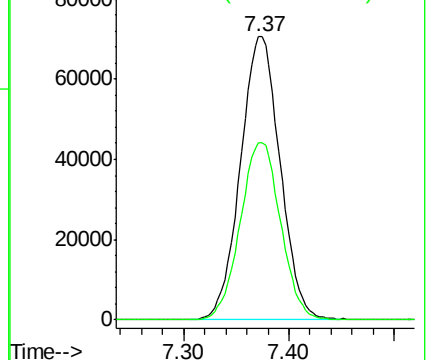
83 100

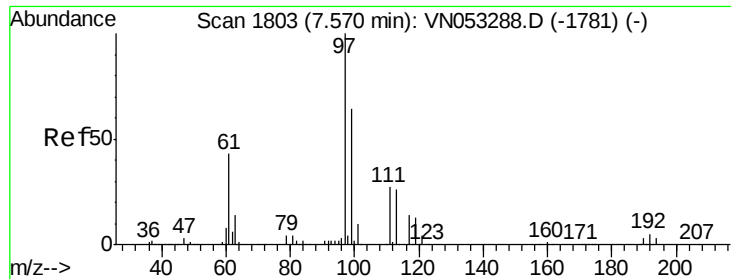
85 62.5 51.3 76.9



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 84.90 (84.60 to 85.60): VNC





#32

1,1,1-Trichloroethane

Concen: 6.494 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampled :

X2E76

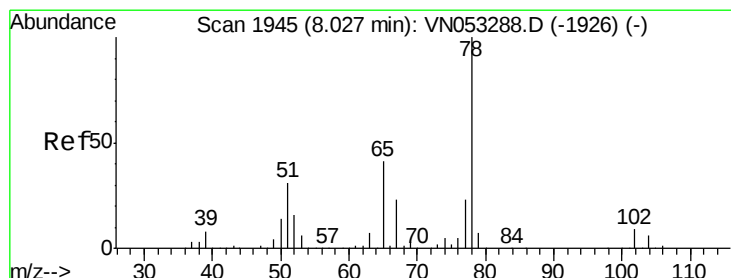
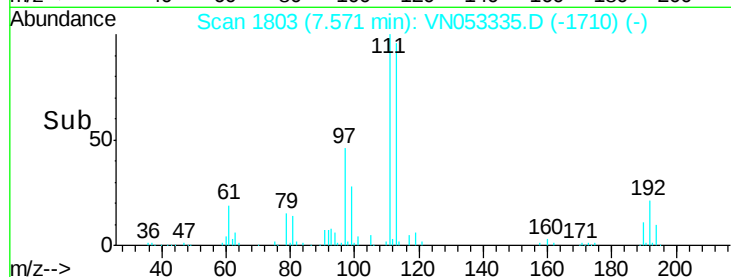
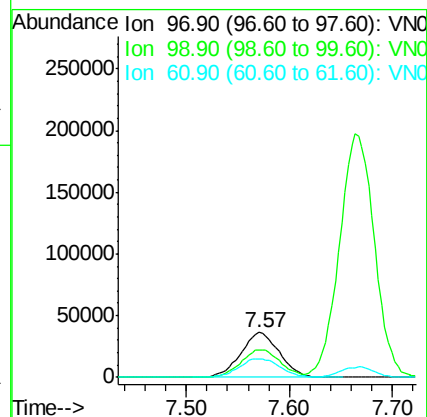
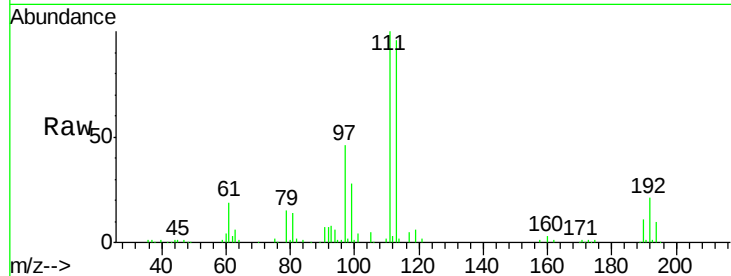
Tot Ion: 97 Resp: 94073

Ion Ratio Lower Upper

97 100

99 63.4 51.6 77.4

61 45.1 34.6 52.0



#33

1,2-Dichloroethane-d4

Concen: 6.494 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053335.D

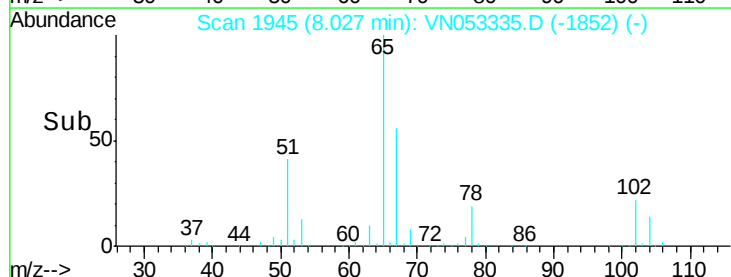
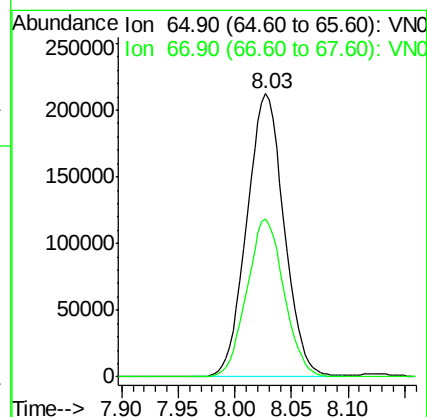
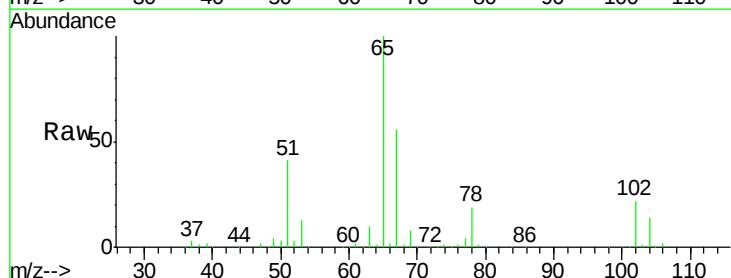
Acq: 10 Jan 2019 12:09

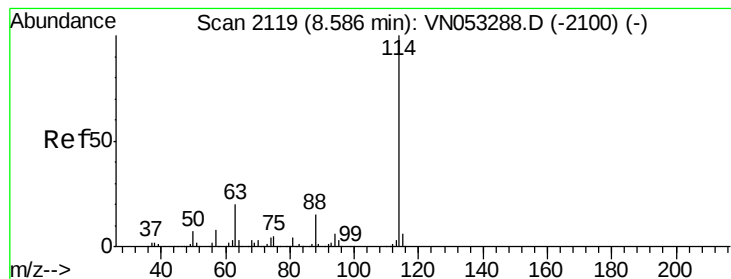
Tgt Ion: 65 Resp: 487527

Ion Ratio Lower Upper

65 100

67 55.7 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

X2E76

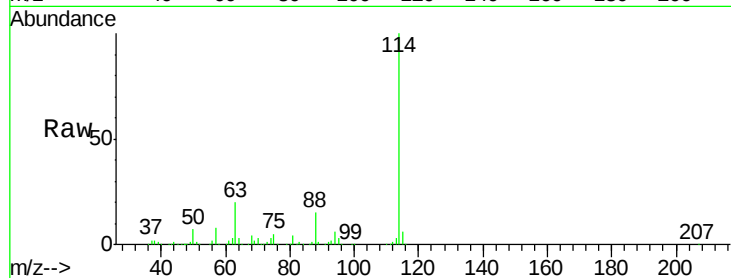
Tot Ion:114 Resp: 1430373

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

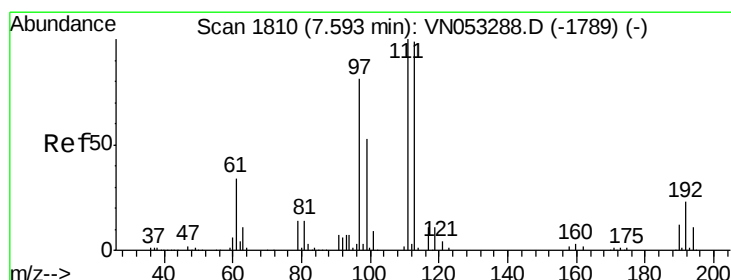
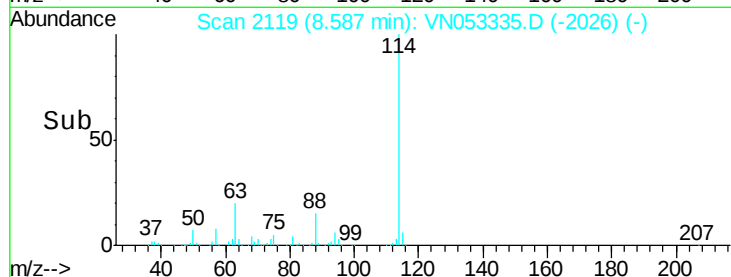
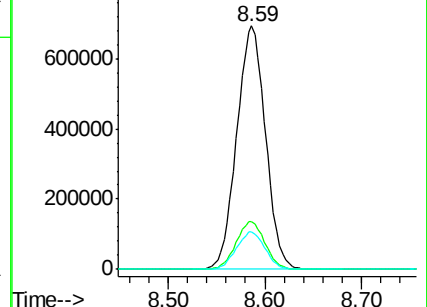
88 15.3 0.0 30.8



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: VN053335.D

Acq: 10 Jan 2019 12:09

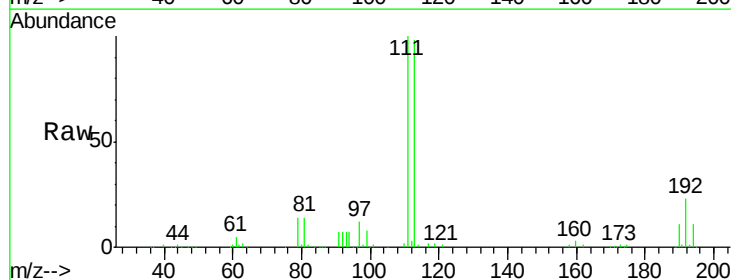
Tgt Ion:113 Resp: 425263

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.2

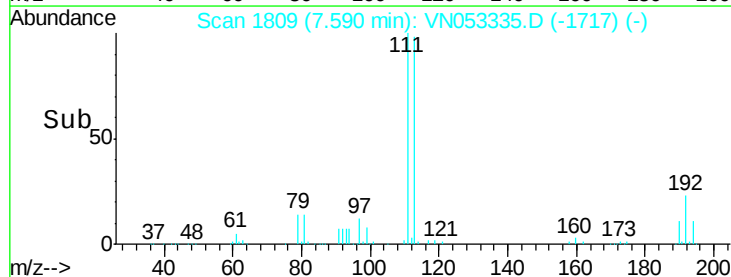
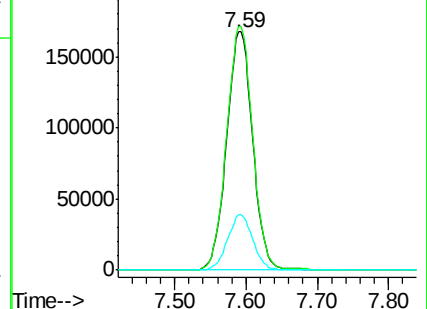
192 22.5 17.9 26.9

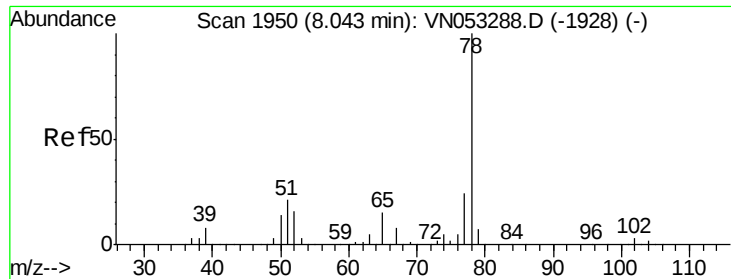


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 3.615 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampled :

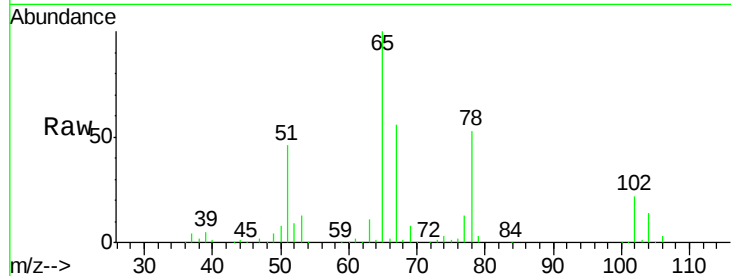
X2E76

Tot Ion: 78 Resp: 147467

Ion Ratio Lower Upper

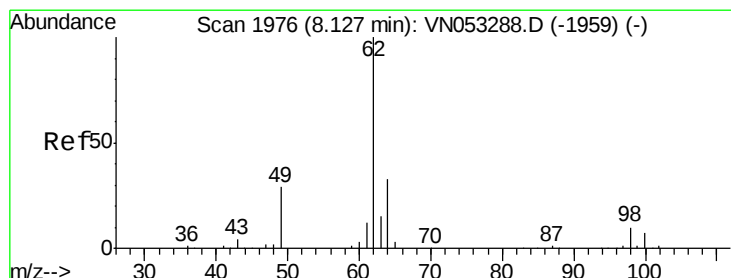
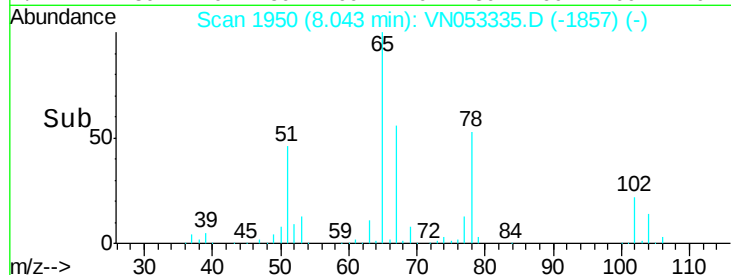
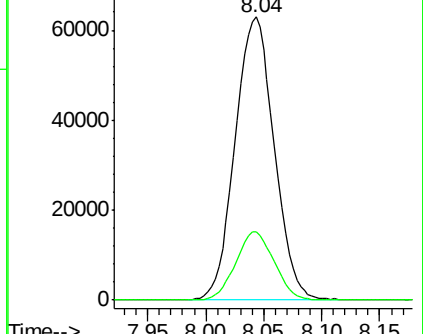
78 100

77 24.1 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#42

1,2-Dichloroethane

Concen: 7.246 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN053335.D

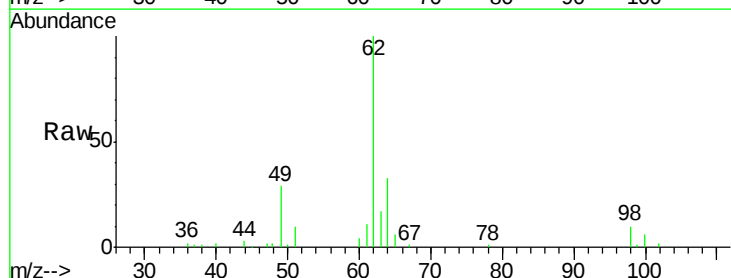
Acq: 10 Jan 2019 12:09

Tgt Ion: 62 Resp: 87677

Ion Ratio Lower Upper

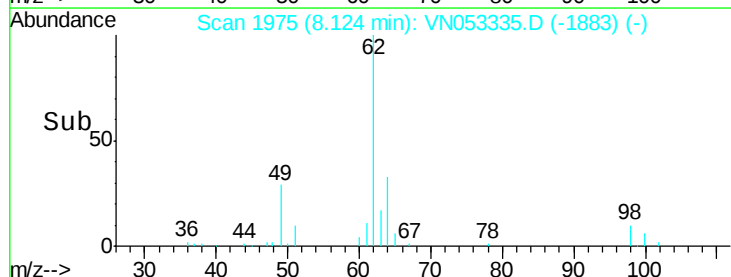
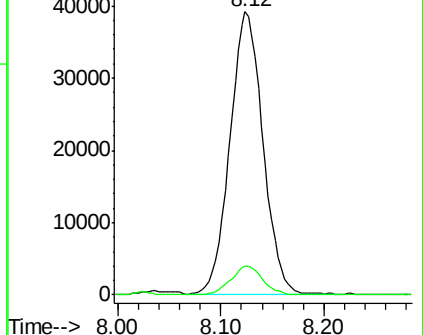
62 100

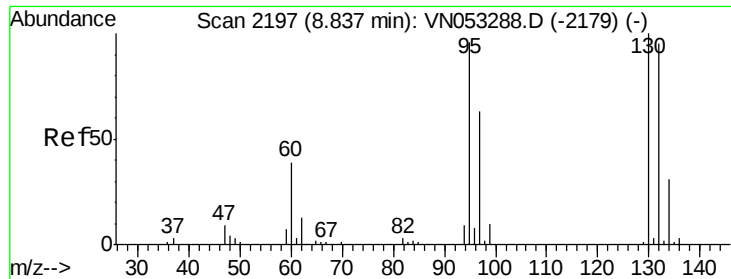
98 9.7 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#44

Trichloroethene

Concen: 3.835 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

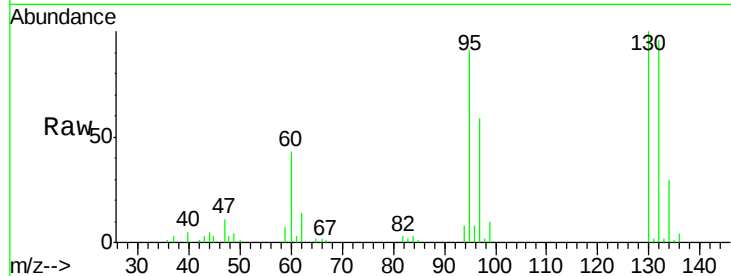
X2E76

Tot Ion:130 Resp: 42951

Ion Ratio Lower Upper

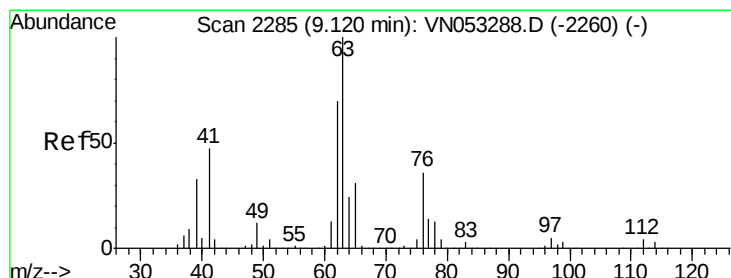
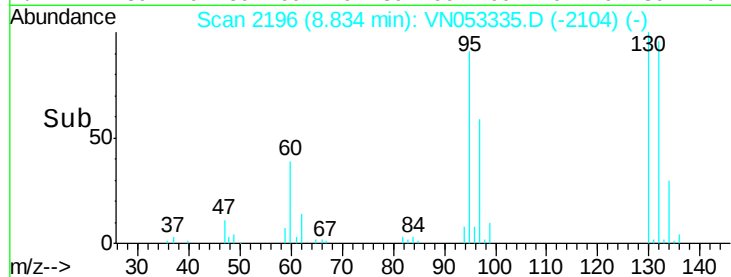
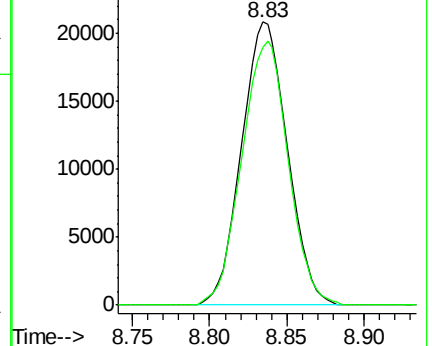
130 100

95 91.2 0.0 191.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#45

1,2-Dichloropropane

Concen: 9.470 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN053335.D

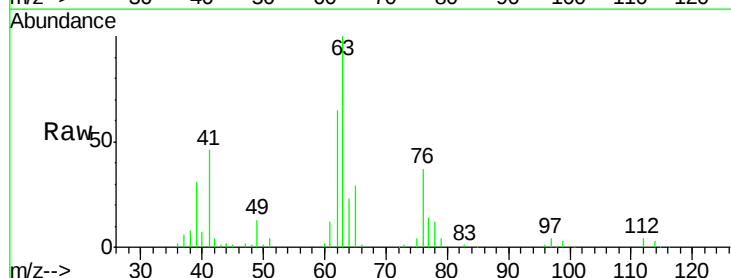
Acq: 10 Jan 2019 12:09

Tgt Ion: 63 Resp: 101315

Ion Ratio Lower Upper

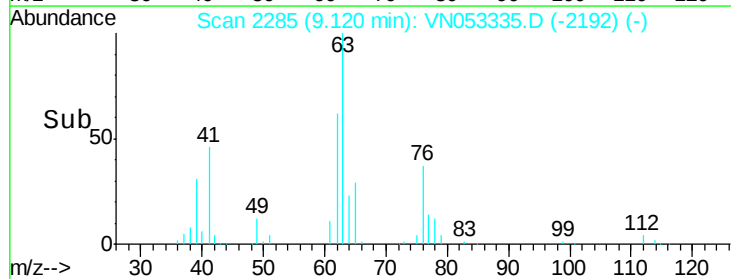
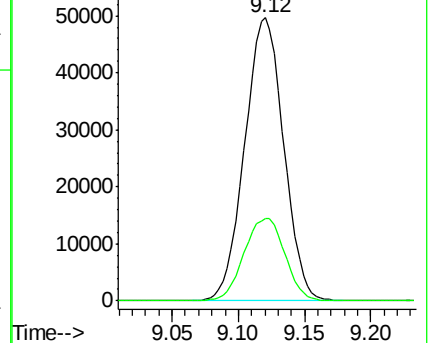
63 100

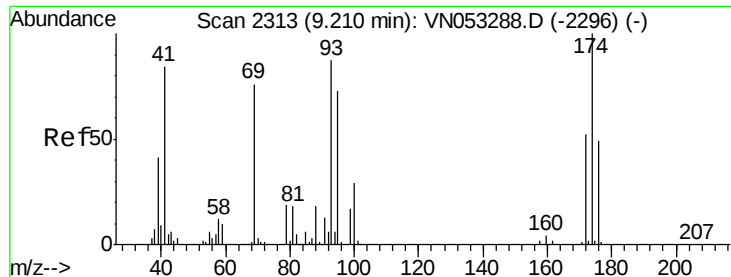
65 29.2 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VN

Ion 64.90 (64.60 to 65.60): VN

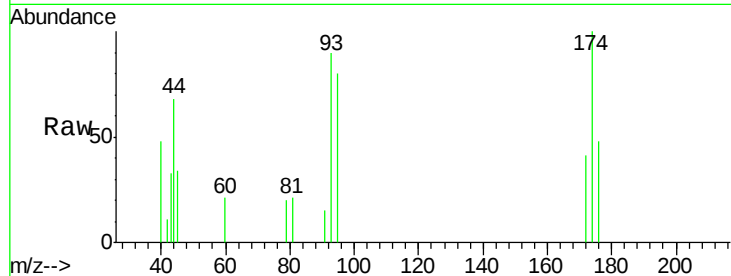




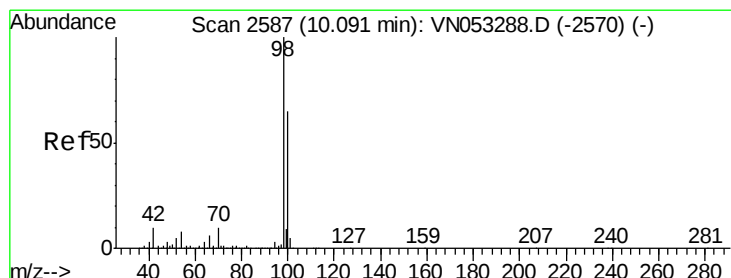
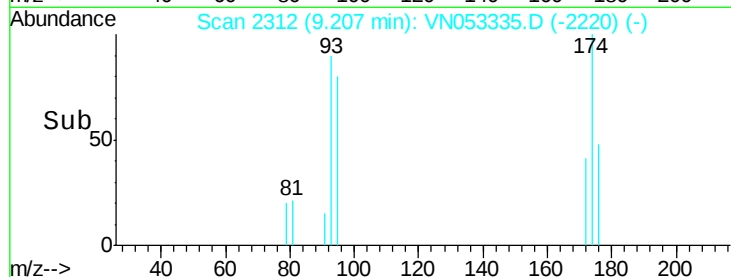
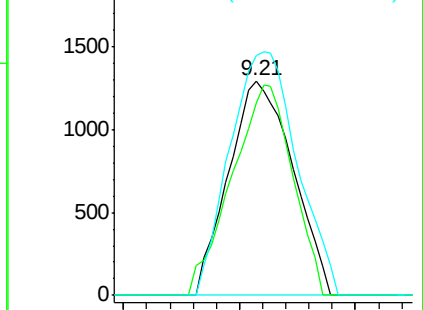
#46
Dibromomethane
Concen: 0.400 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. -0.00 min
Lab File: VN053335.D
Acq: 10 Jan 2019 12:09

Instrument :
MSVOA_N
ClientSampleId :
X2E76

Tot Ion: 93 Resp: 2493
Ion Ratio Lower Upper
93 100
95 92.8 66.6 100.0
174 119.0 91.4 137.0

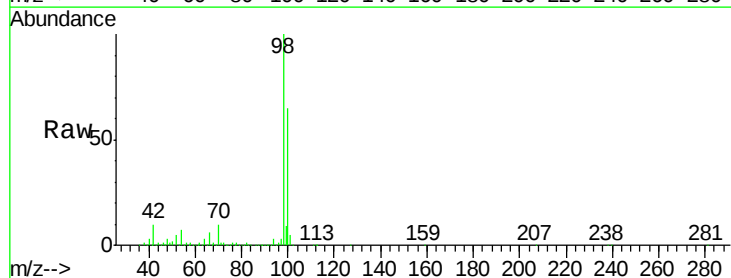


Abundance Ion 92.80 (92.50 to 93.50): VN0
Ion 94.80 (94.50 to 95.50): VN0
Ion 173.70 (173.40 to 174.40): V

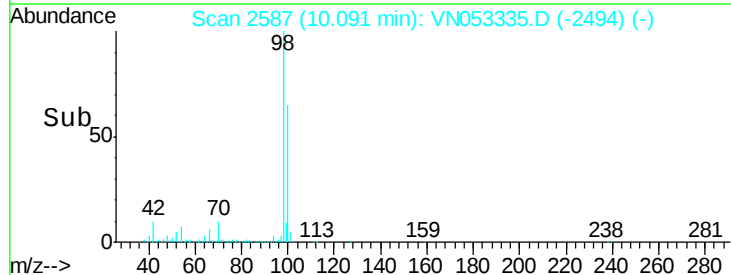
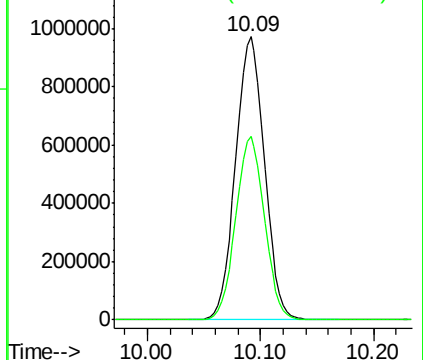


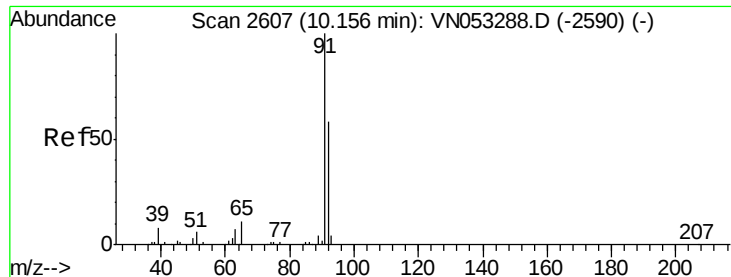
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053335.D
Acq: 10 Jan 2019 12:09

Tgt Ion: 98 Resp: 1735205
Ion Ratio Lower Upper
98 100
100 64.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 6.801 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

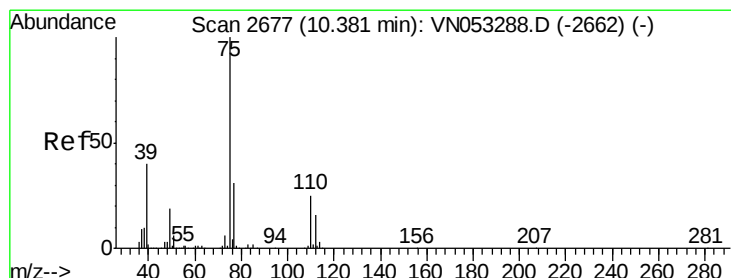
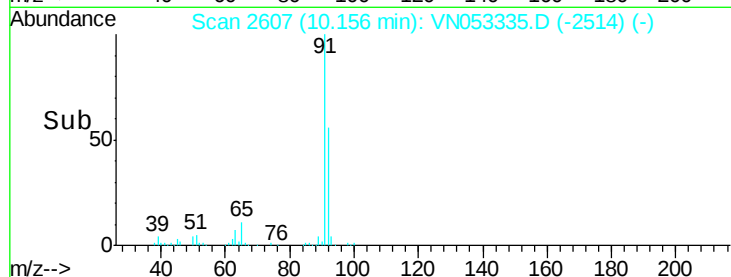
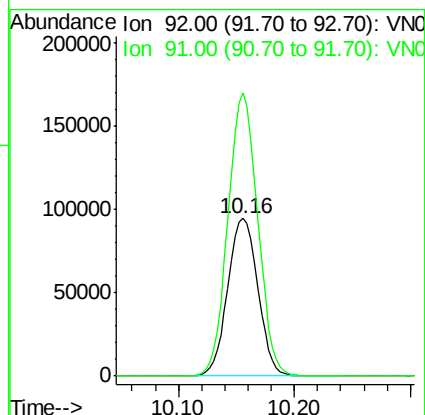
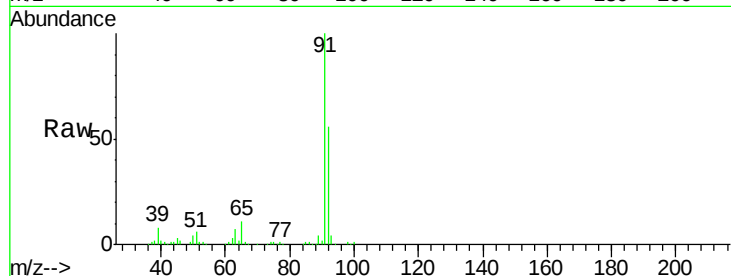
X2E76

Tot Ion: 92 Resp: 170180

Ion Ratio Lower Upper

92 100

91 176.8 138.6 208.0



#53

t-1,3-Dichloropropene

Concen: 5.674 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053335.D

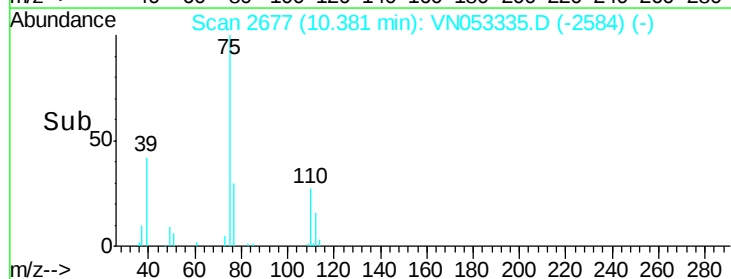
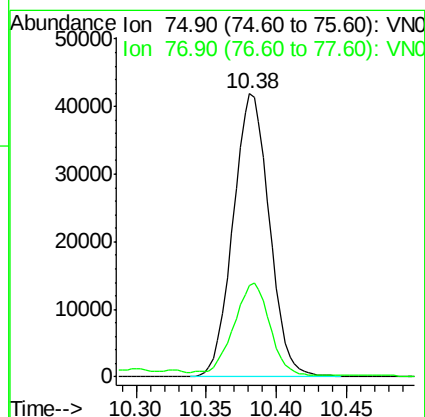
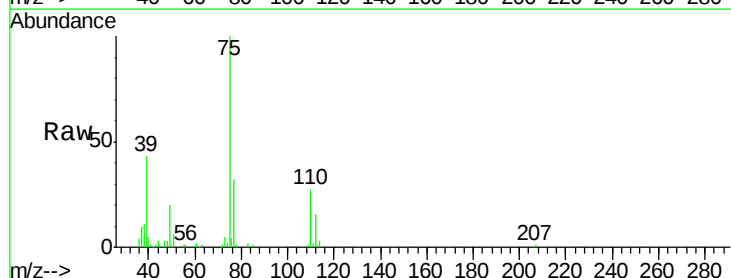
Acq: 10 Jan 2019 12:09

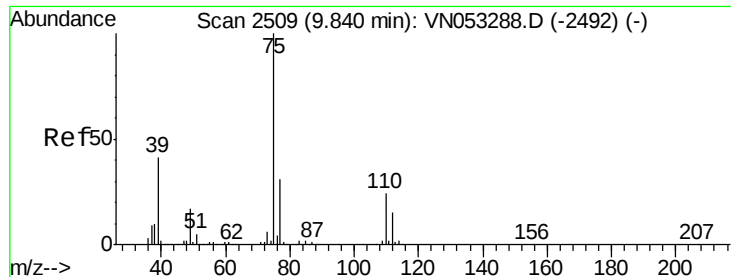
Tgt Ion: 75 Resp: 75454

Ion Ratio Lower Upper

75 100

77 31.6 25.0 37.4



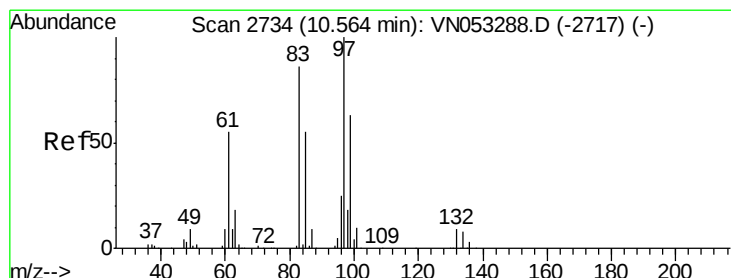
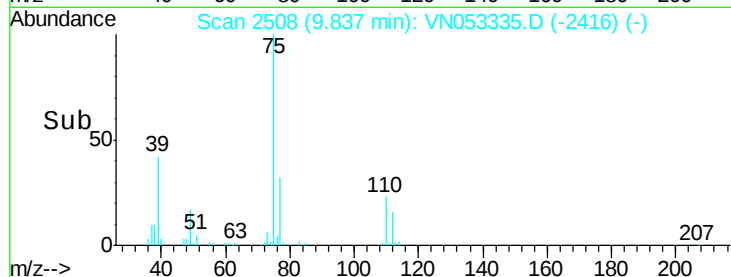
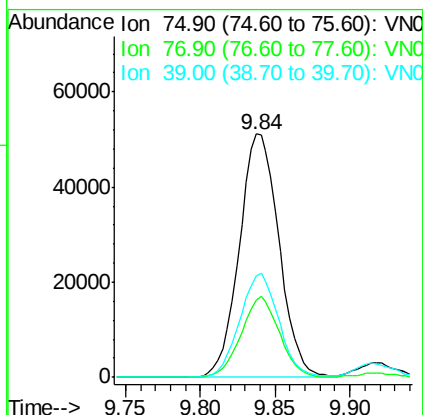
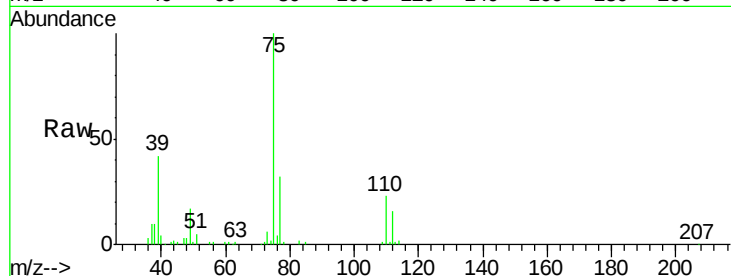


#54

cis-1,3-Dichloropropene
 Concen: 6.153 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN053335.D
 Acq: 10 Jan 2019 12:09

Instrument :
 MSVOA_N
 ClientSampleId :
 X2E76

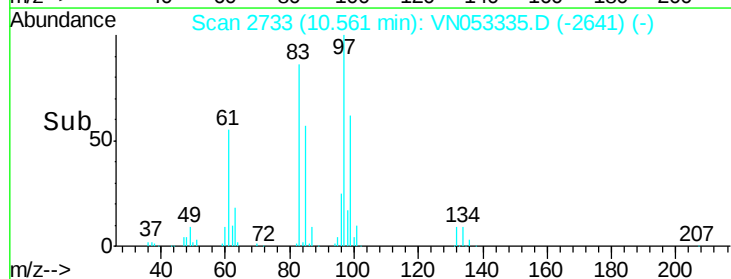
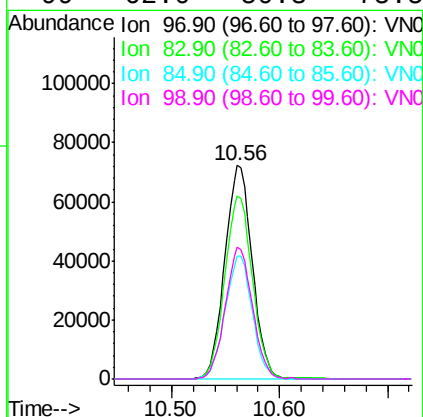
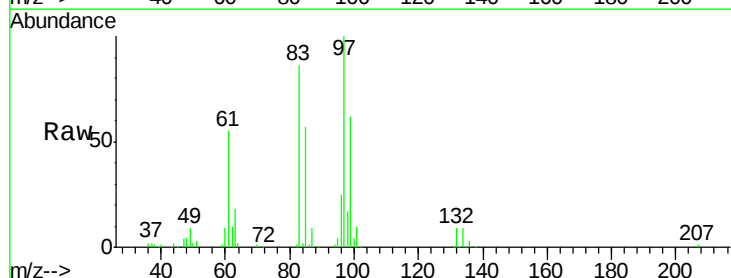
Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.1	37.7
39	41.9	33.1	49.7

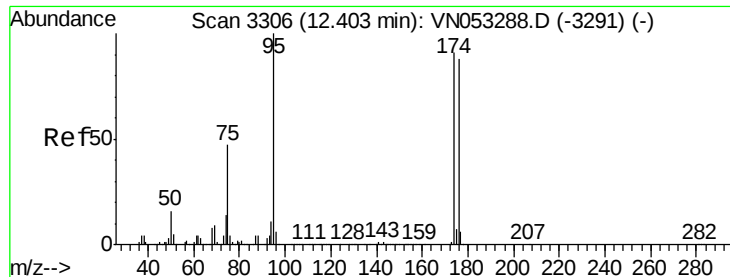


#55

1,1,2-Trichloroethane
 Concen: 13.946 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053335.D
 Acq: 10 Jan 2019 12:09

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.5	69.1	103.7
85	57.3	44.2	66.4
99	62.0	50.3	75.5





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

X2E76

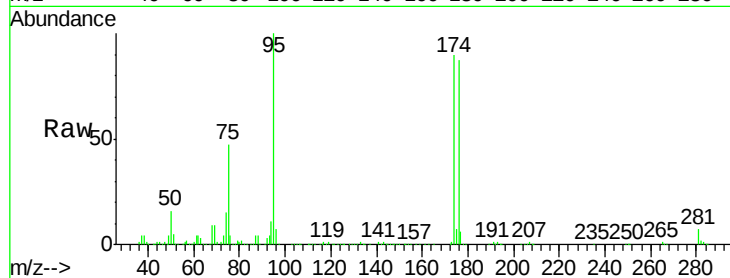
Tot Ion: 95 Resp: 587429

Ion Ratio Lower Upper

95 100

174 90.2 0.0 180.4

176 87.5 0.0 175.6

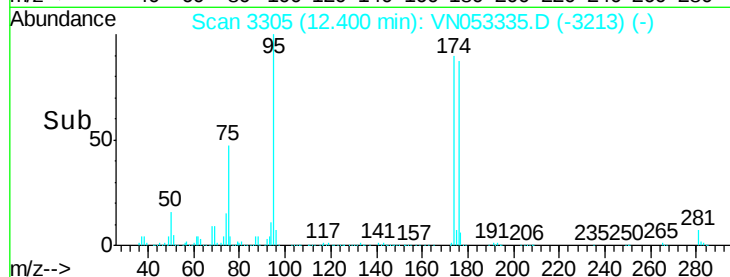


Abundance Ion 94.90 (94.60 to 95.60): VN053288.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053288.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053288.D (-3291) (-)

Time-->

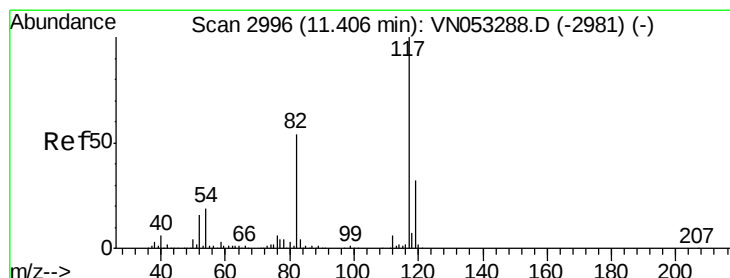


Abundance Ion 94.90 (94.60 to 95.60): VN053335.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053335.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053335.D (-3213) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

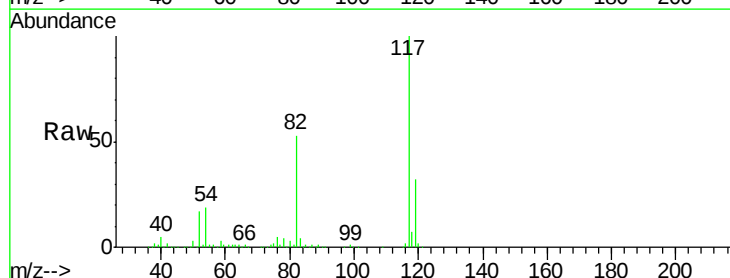
Tgt Ion: 117 Resp: 1261462

Ion Ratio Lower Upper

117 100

82 52.7 42.9 64.3

119 32.0 25.6 38.4

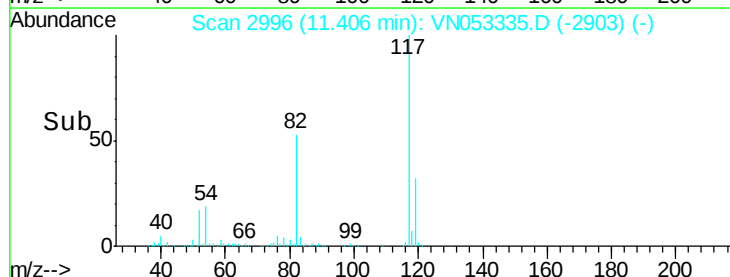


Abundance Ion 116.90 (116.60 to 117.60): VN053288.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN053288.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN053288.D (-2981) (-)

Time-->

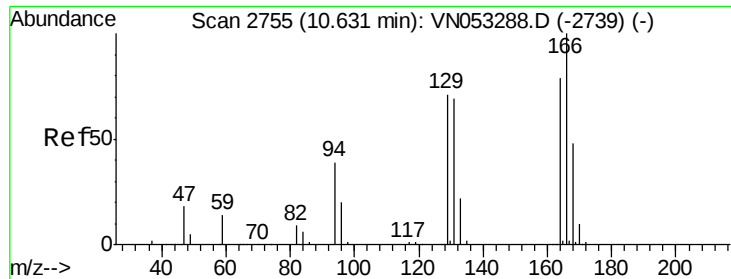


Abundance Ion 116.90 (116.60 to 117.60): VN053335.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053335.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053335.D (-2903) (-)

Time-->



#64

Tetrachloroethene

Concen: 2.536 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

X2E76

Tot Ion:164 Resp: 30108

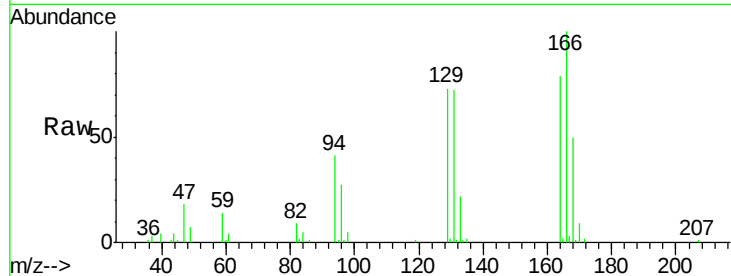
Ion Ratio Lower Upper

164 100

166 127.0 101.7 152.5

129 93.0 72.1 108.1

131 91.7 69.9 104.9

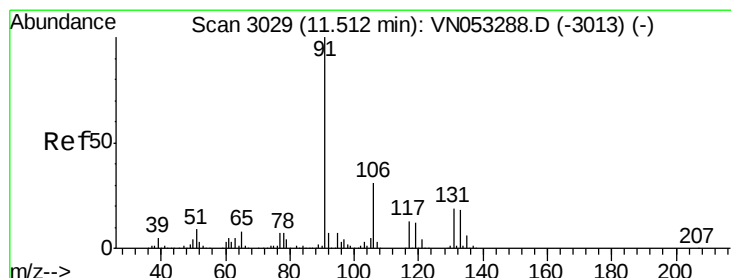
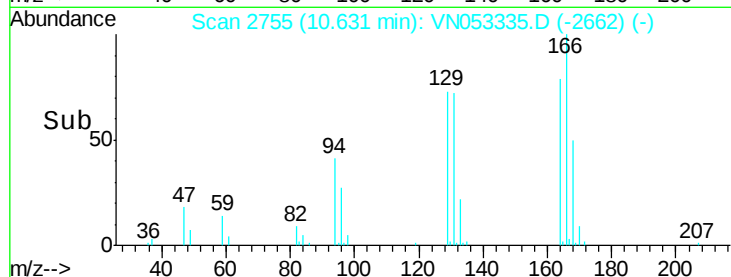
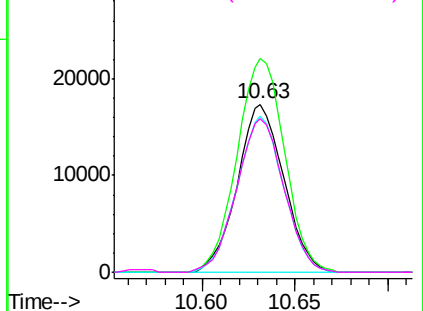


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 9.764 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053335.D

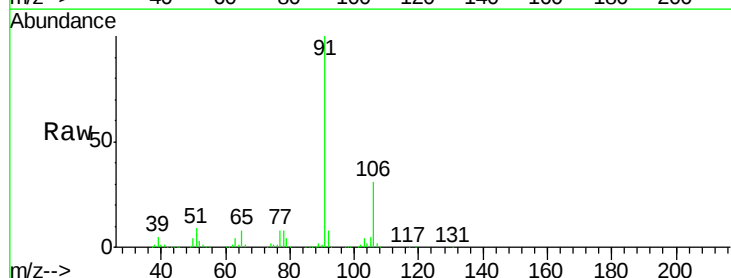
Acq: 10 Jan 2019 12:09

Tgt Ion: 91 Resp: 454673

Ion Ratio Lower Upper

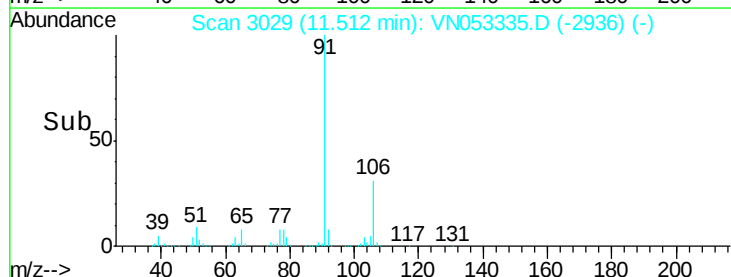
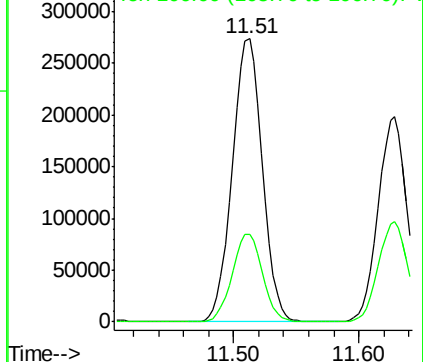
91 100

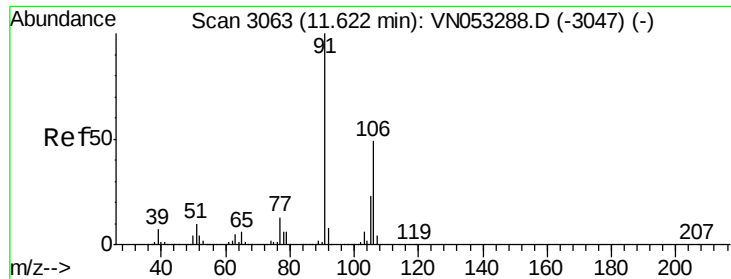
106 31.0 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

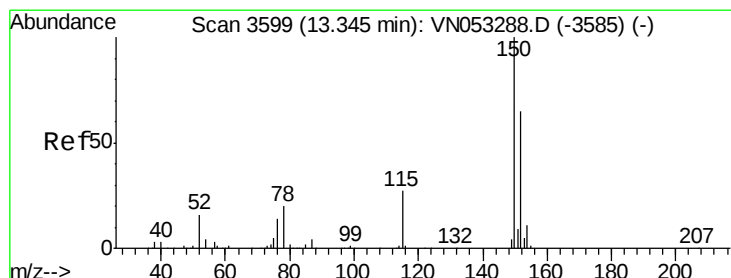
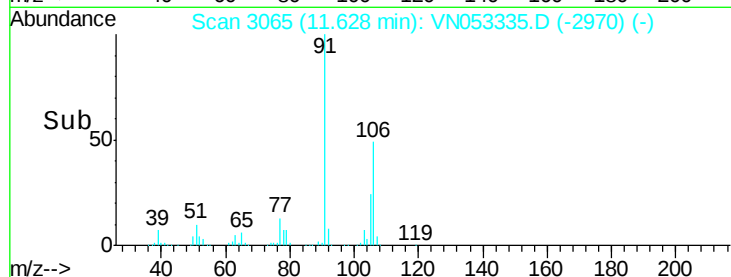
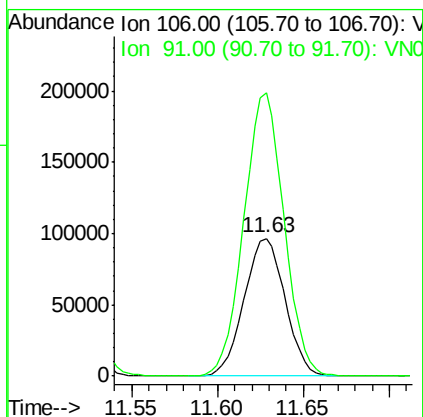
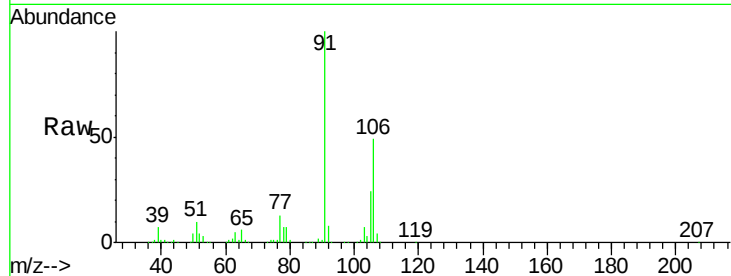




#68
m/p-Xvlenes
Concen: 9.119 ug/l
RT: 11.63 min Scan# 3065
Delta R.T. 0.01 min
Lab File: VN053335.D
Acq: 10 Jan 2019 12:09

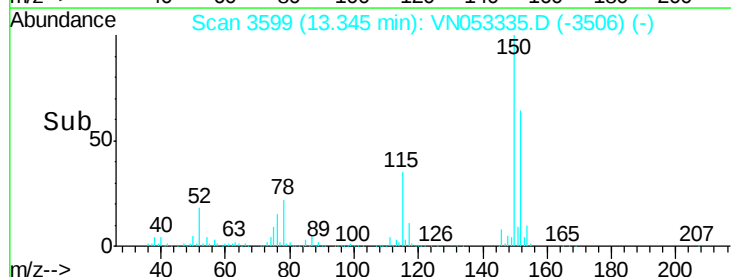
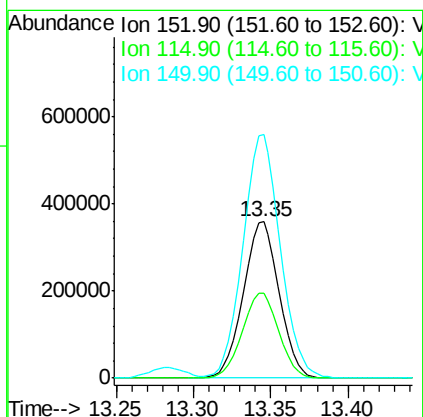
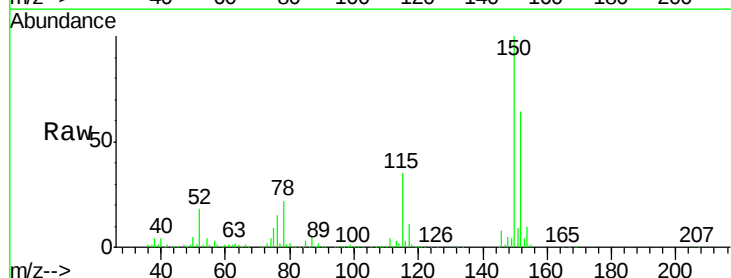
Instrument :
MSVOA_N
ClientSampled :
X2E76

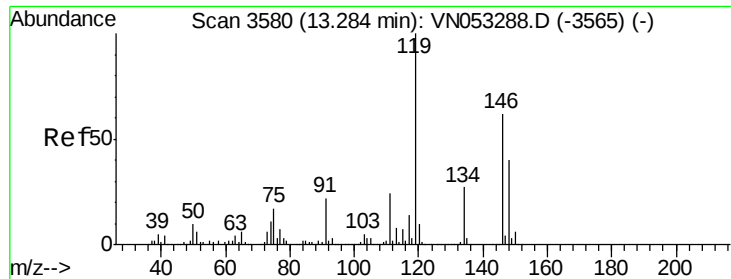
Tot Ion:106 Resp: 159665
Ion Ratio Lower Upper
106 100
91 202.0 161.4 242.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053335.D
Acq: 10 Jan 2019 12:09

Tgt Ion:152 Resp: 579364
Ion Ratio Lower Upper
152 100
115 55.3 28.0 84.0
150 162.4 0.0 346.6

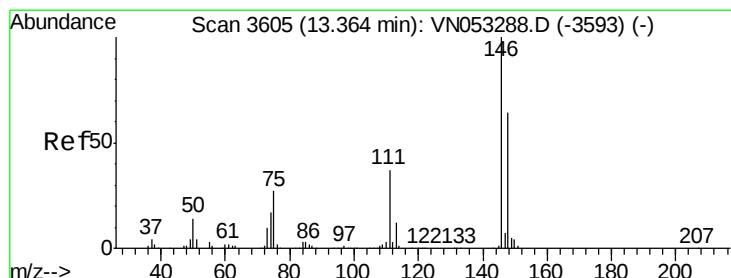
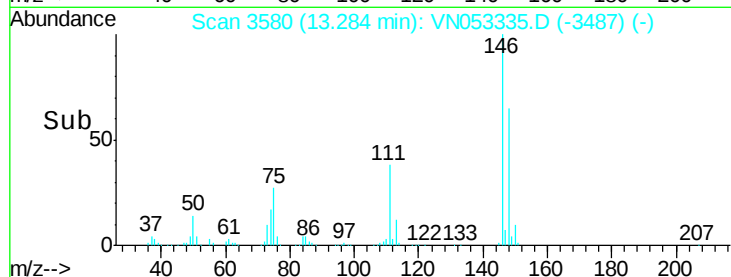
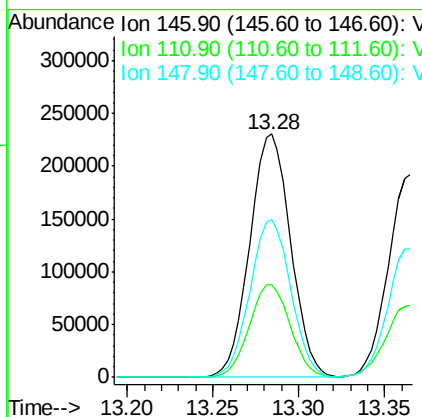
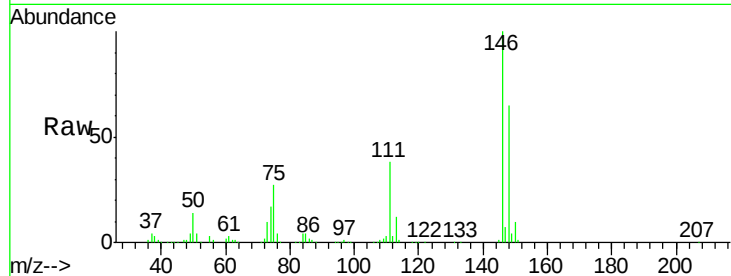




#87
 1,3-Dichlorobenzene
 Concen: 18.794 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053335.D
 Acq: 10 Jan 2019 12:09

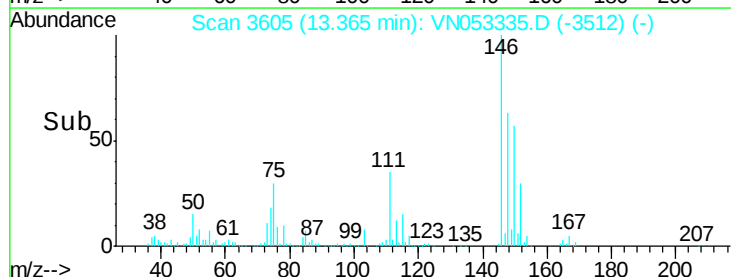
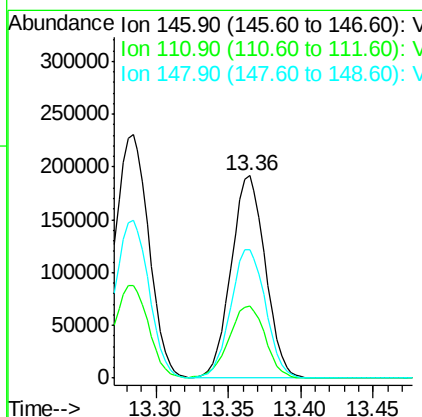
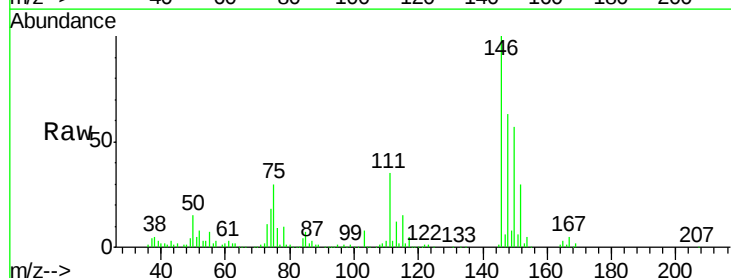
Instrument :
 MSVOA_N
 ClientSampleId :
 X2E76

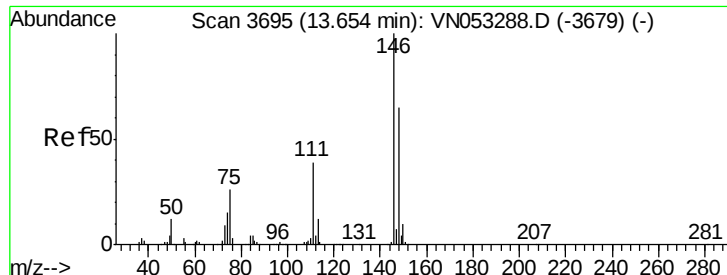
Tot Ion:146 Resp: 381029
 Ion Ratio Lower Upper
 146 100
 111 38.0 18.9 56.5
 148 64.7 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 15.656 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053335.D
 Acq: 10 Jan 2019 12:09

Tgt Ion:146 Resp: 314853
 Ion Ratio Lower Upper
 146 100
 111 37.9 18.6 55.8
 148 64.8 32.0 96.0





#91

1,2-Dichlorobenzene

Concen: 21.649 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053335.D

Acq: 10 Jan 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

X2E76

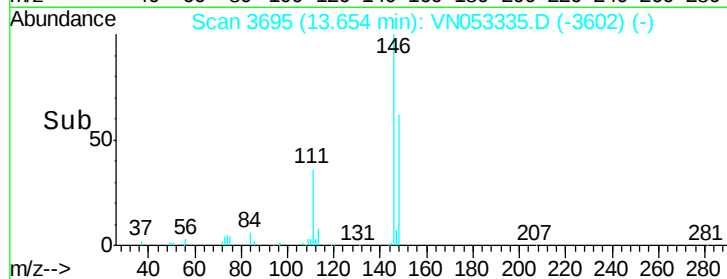
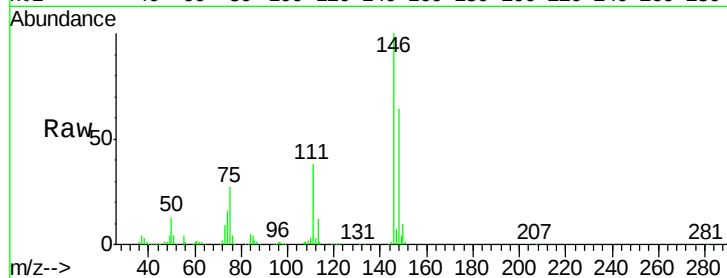
Tot Ion:146 Resp: 411114

Ion Ratio Lower Upper

146 100

111 37.9 19.4 58.2

148 64.0 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

