

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050119\
 Data File : VN055333.D
 Acq On : 1 May 2019 17:11
 Operator : JC/SP
 Sample : K2650-01 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GROUND-WATER

Quant Time: May 02 01:53:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

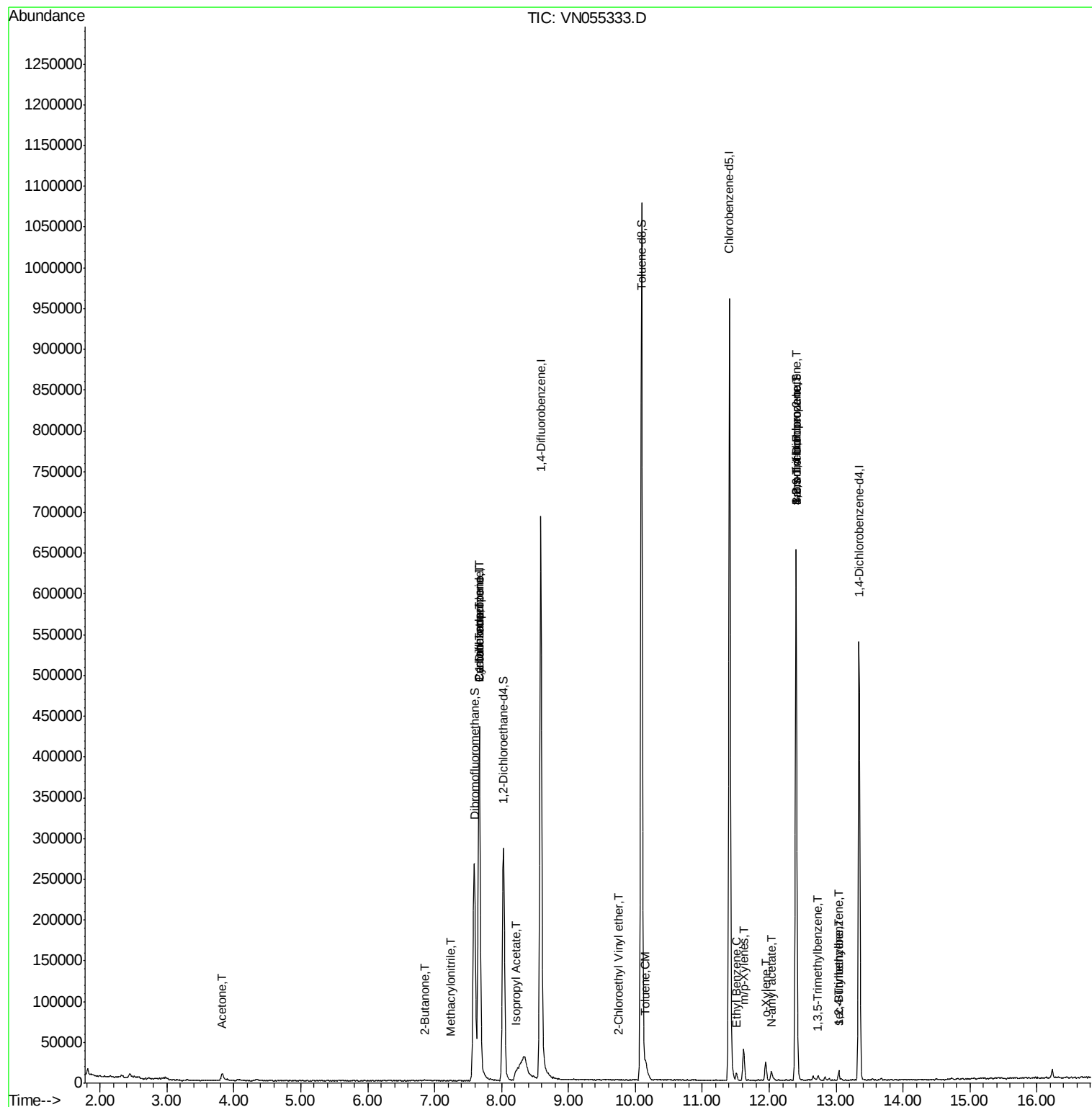
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	368141	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	616503	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	553725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143428	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	250680	52.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.10%	
35) Dibromofluoromethane	7.59	113	205447	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	10.09	98	770010	52.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.40%	
62) 4-Bromofluorobenzene	12.40	95	227804	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	15160	10.102	ug/l	100
18) Methyl Acetate	4.33	43	1508	Below Cal	#	77
25) 2-Butanone	6.85	43	390	0.203	ug/l #	53
31) Cyclohexane	7.67	56	8416	1.111	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	28940	4.901	ug/l #	50
38) Carbon Tetrachloride	7.67	117	34339	6.028	ug/l #	16
41) Methacrylonitrile	7.23	41	201	0.821	ug/l #	38
43) Isopropyl Acetate	8.21	43	7294	1.003	ug/l #	56
52) Toluene	10.16	92	4775	0.478	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.75	63	31	12.426	ug/l #	52
67) Ethyl Benzene	11.51	91	6207	0.317	ug/l	97
68) m/p-Xylenes	11.62	106	11309	1.621	ug/l	96
69) o-Xylene	11.94	106	5807	0.840	ug/l	88
71) Bromoform	12.40	173	2127	0.904	ug/l #	1
73) Isopropylbenzene	12.25	105	310	Below Cal	#	49
74) N-amyl acetate	12.03	43	9942	2.701	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.40	83	126	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	117268	43.668	ug/l #	100
79) 2-Chlorotoluene	12.66	91	376	Below Cal	#	42
80) 1,3,5-Trimethylbenzene	12.73	105	2498	0.222	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	117268	154.942	ug/l #	7
83) tert-Butylbenzene	13.03	119	1028	Below Cal	#	79
84) 1,2,4-Trimethylbenzene	13.04	105	6693	0.666	ug/l	99
85) sec-Butylbenzene	13.04	105	6693	0.548	ug/l #	58

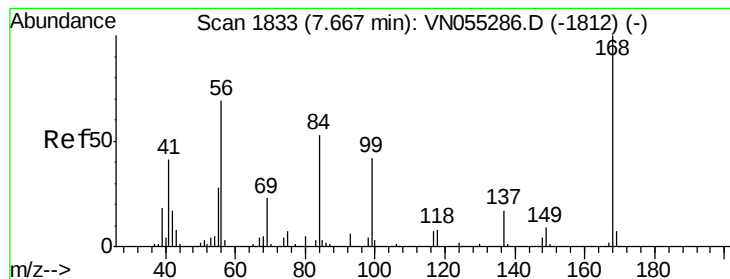
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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GROUND-WATER

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Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 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: VN055333.D

Acq: 1 May 2019 17:11

Instrument :

MSVOA_N

ClientSampleId :

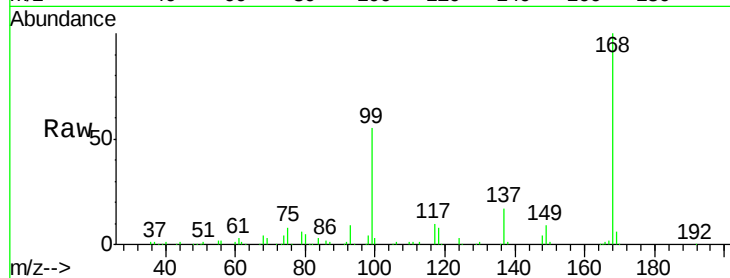
GROUND-WATER

Tot Ion:168 Resp: 368141

Ion Ratio Lower Upper

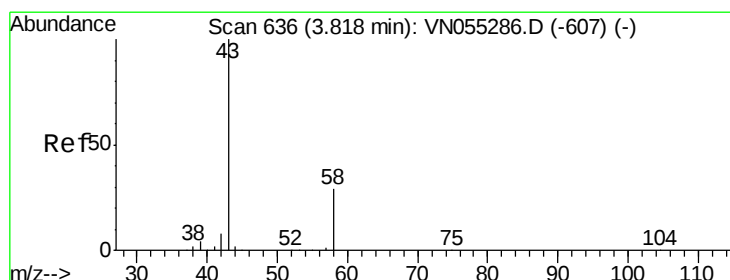
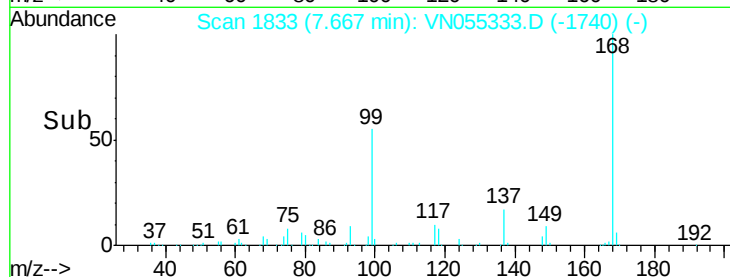
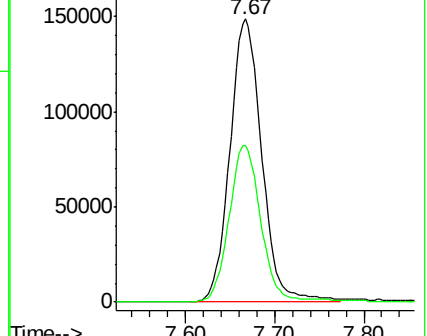
168 100

99 55.3 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 10.102 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN055333.D

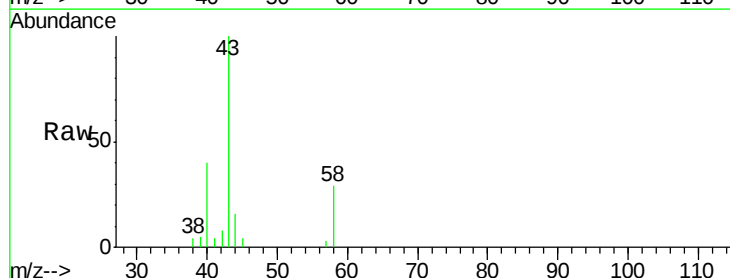
Acq: 1 May 2019 17:11

Tgt Ion: 43 Resp: 15160

Ion Ratio Lower Upper

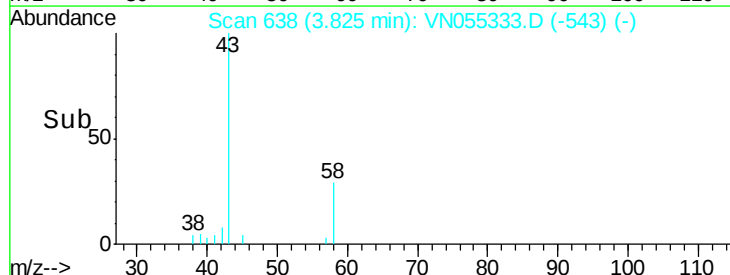
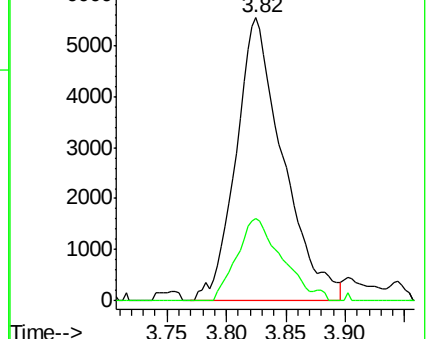
43 100

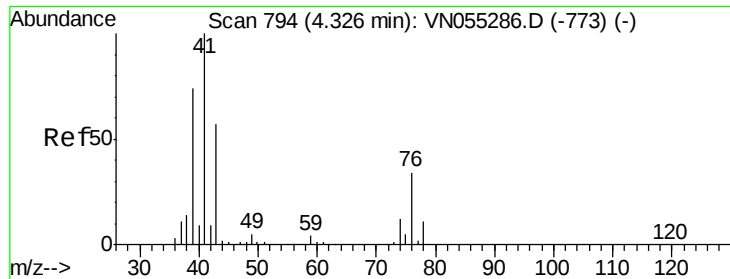
58 29.3 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

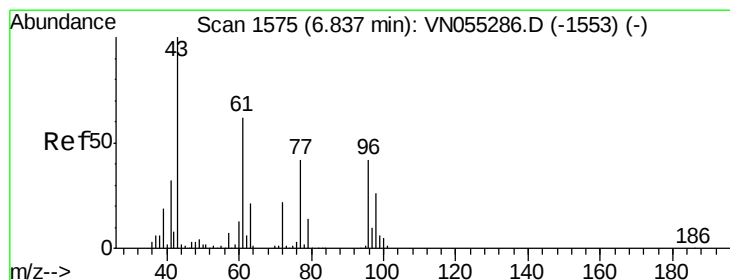
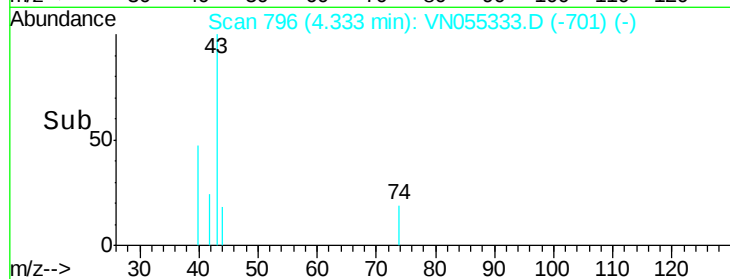
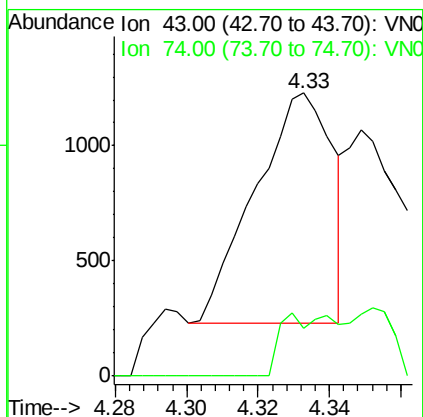
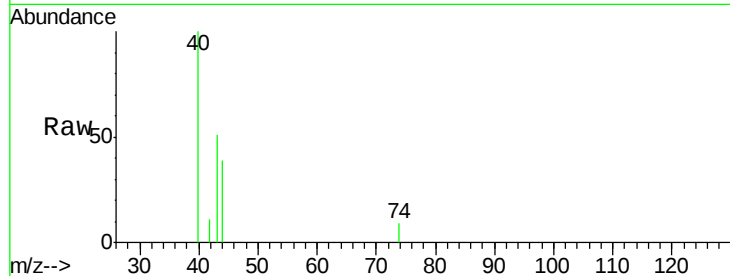




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

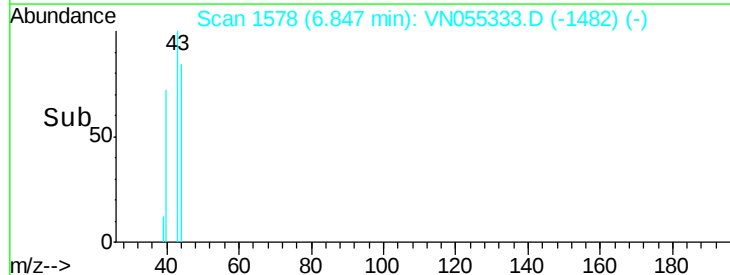
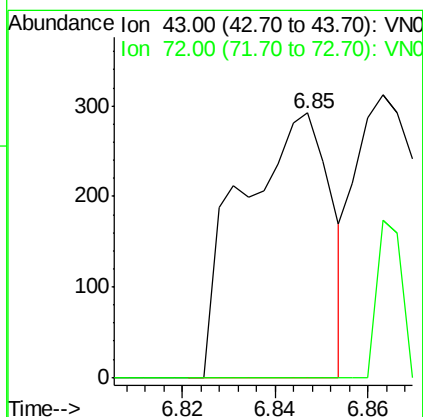
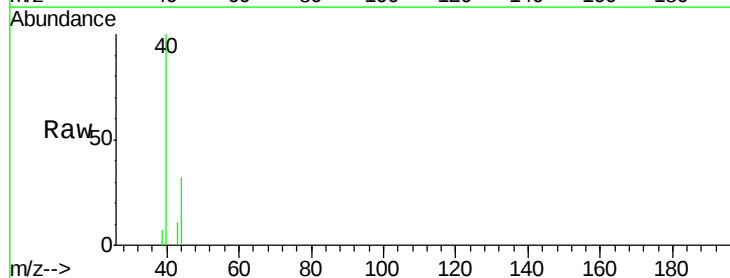
Instrument :
MSVOA_N
ClientSampleId :
GROUND-WATER

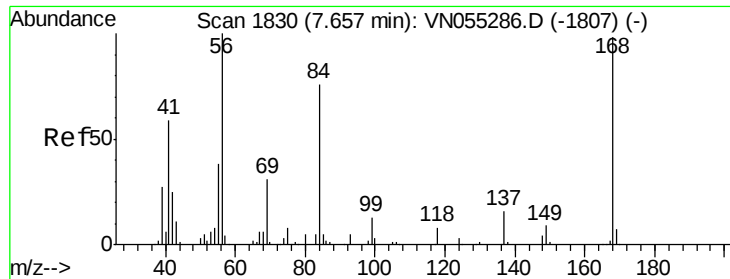
Tot Ion: 43 Resp: 1508
Ion Ratio Lower Upper
43 100
74 9.1 15.8 23.8#



#25
2-Butanone
Concen: 0.203 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Tgt Ion: 43 Resp: 390
Ion Ratio Lower Upper
43 100
72 0.0 18.0 27.0#

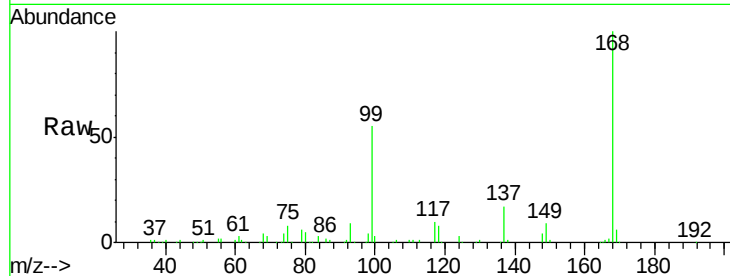




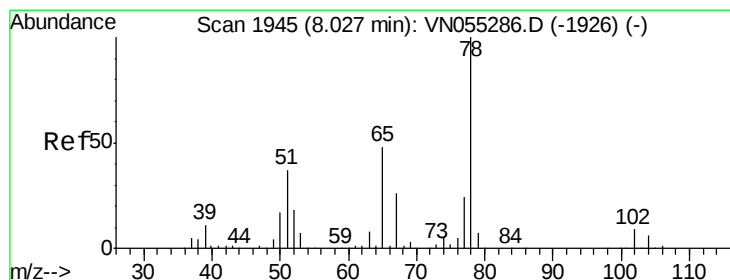
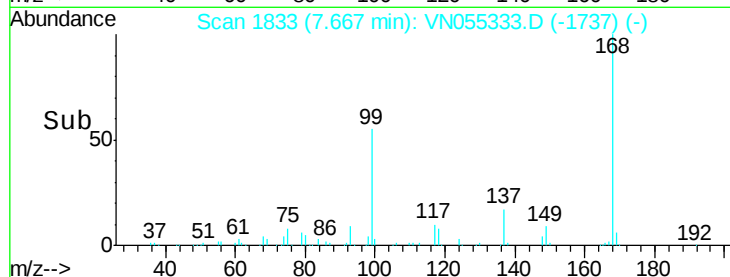
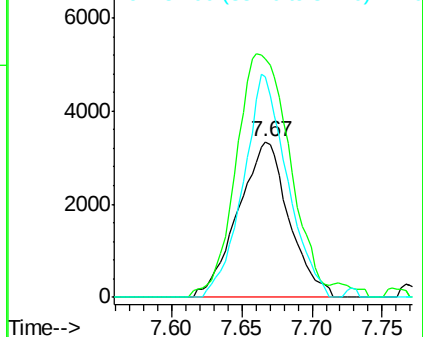
#31
Cyclohexane
Concen: 1.111 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Instrument :
MSVOA_N
ClientSampleId :
GROUND-WATER

Tot Ion: 56 Resp: 8416
Ion Ratio Lower Upper
56 100
69 152.9 25.2 37.8#
84 141.9 61.1 91.7#

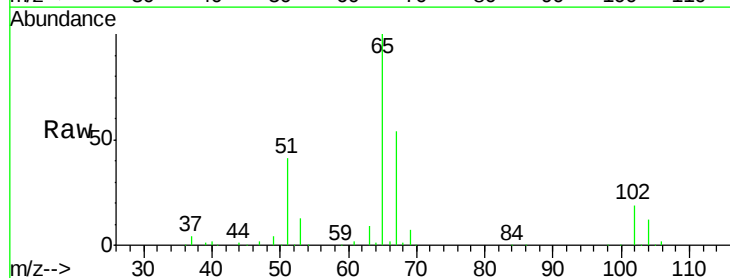


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

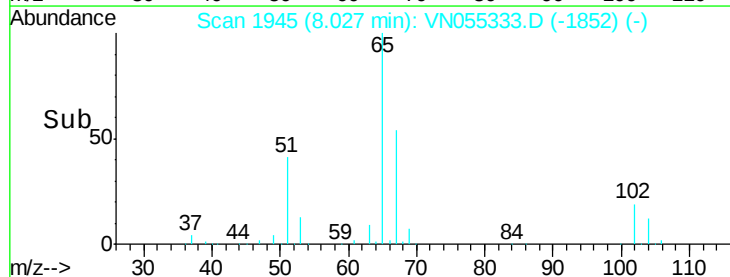
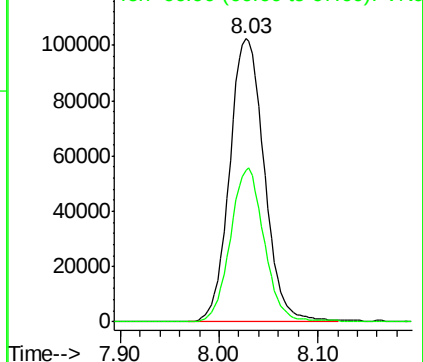


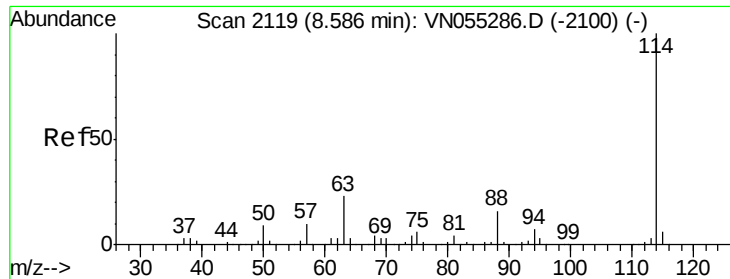
#33
1,2-Dichloroethane-d4
Concen: 52.050 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Tgt Ion: 65 Resp: 250680
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

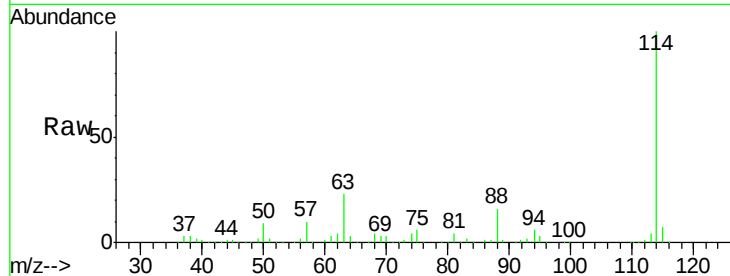




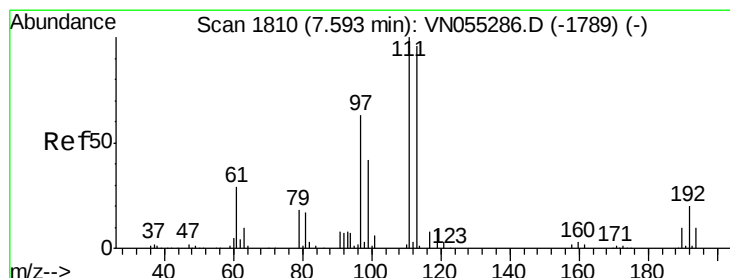
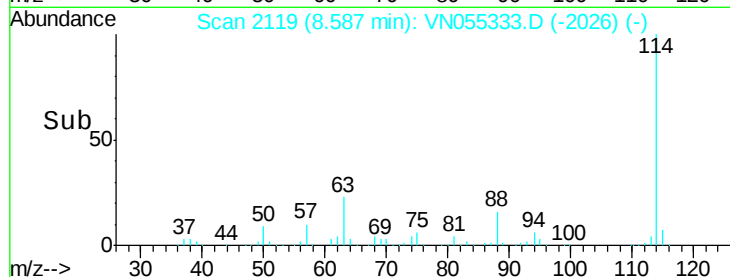
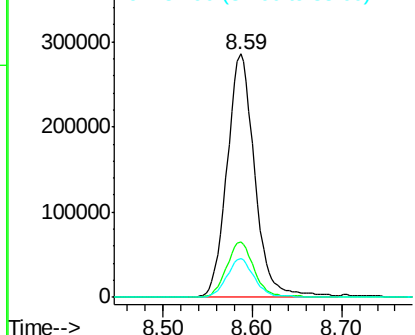
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

Instrument :
 MSVOA_N
 ClientSampleId :
 GROUND-WATER

Tot Ion:114 Resp: 616503
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.2
 88 15.9 0.0 31.6

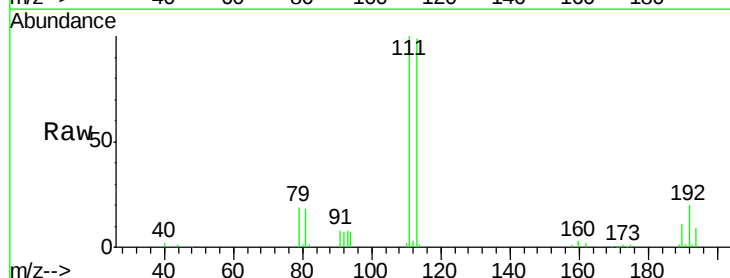


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

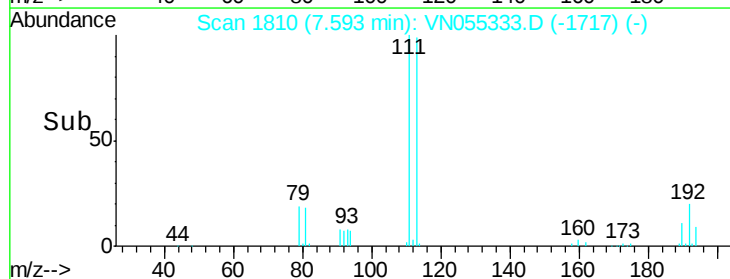
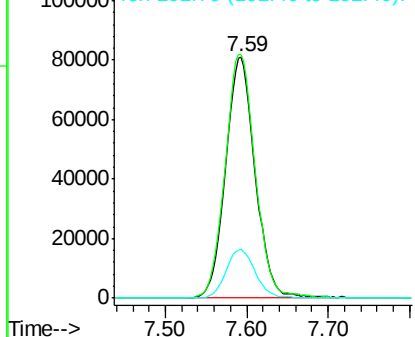


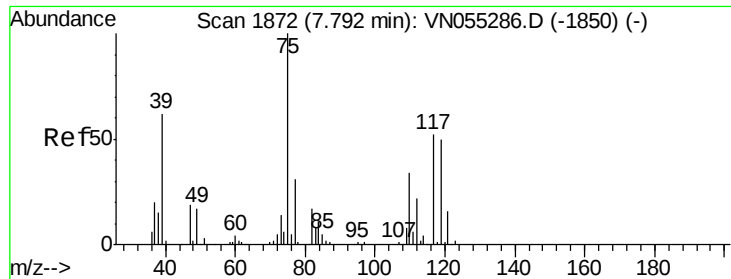
#35
 Dibromofluoromethane
 Concen: 50.771 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

Tgt Ion:113 Resp: 205447
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.3 123.5
 192 20.2 17.0 25.6



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

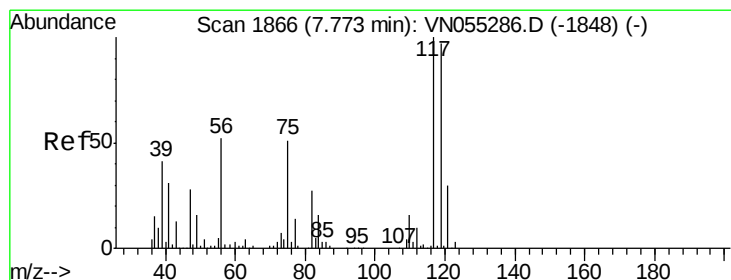
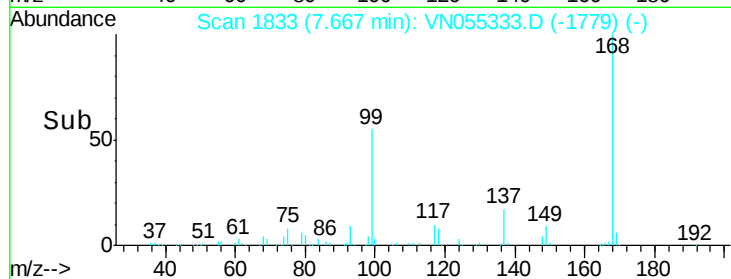
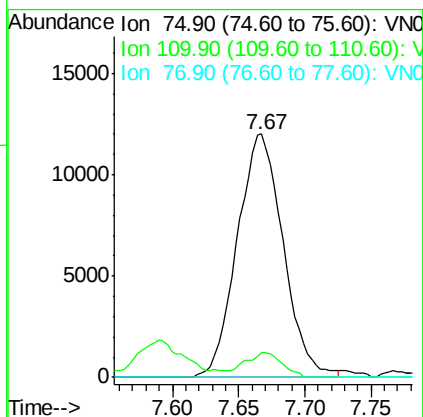
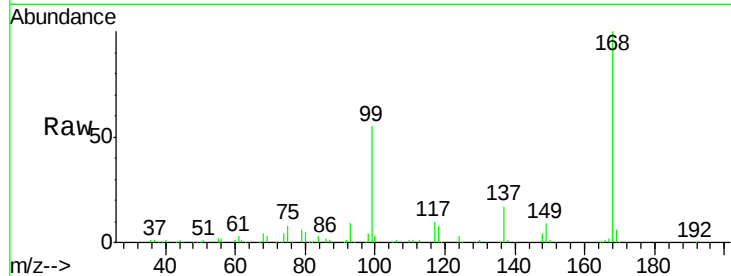




#36
 1,1-Dichloropropene
 Concen: 4.901 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

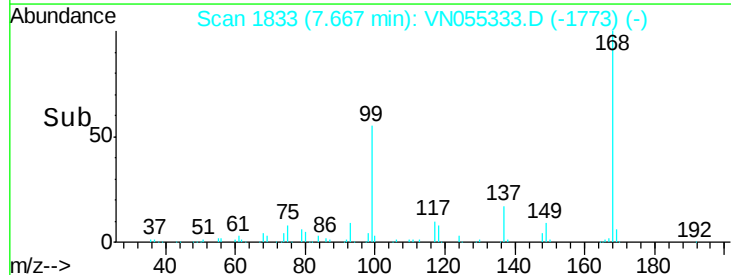
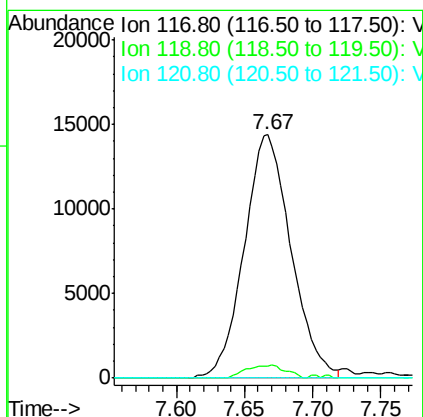
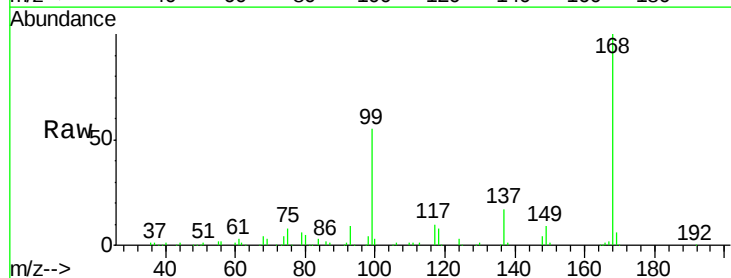
Instrument :
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 ClientSampleId :
 GROUND-WATER

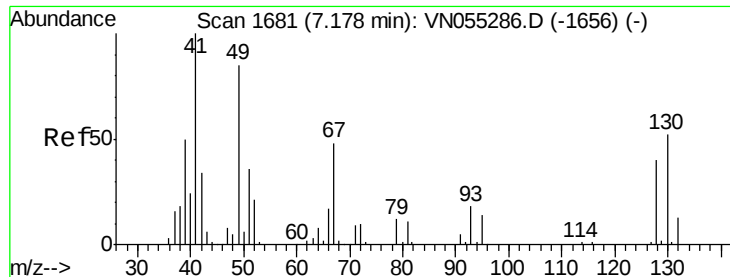
Tot Ion: 75 Resp: 28940
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.8 50.4#
 77 0.0 25.0 37.6#



#38
 Carbon Tetrachloride
 Concen: 6.028 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

Tgt Ion: 117 Resp: 34339
 Ion Ratio Lower Upper
 117 100
 119 5.1 77.0 115.6#
 121 0.0 23.8 35.8#

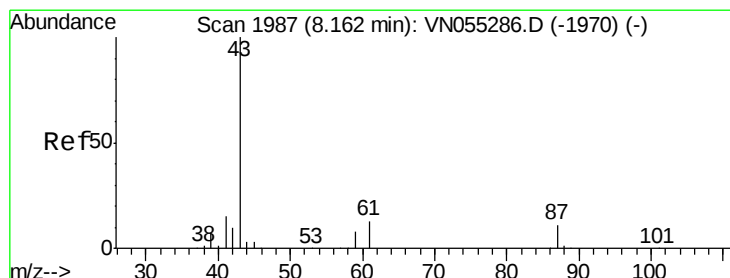
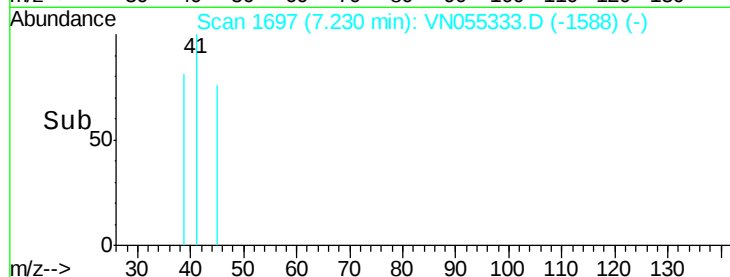
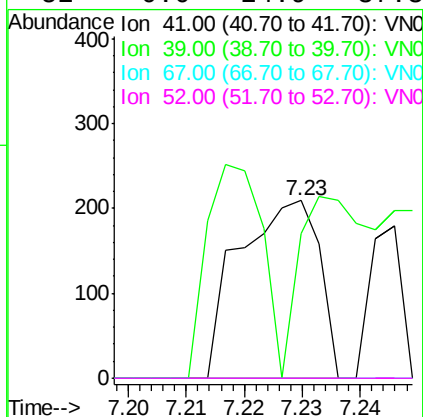
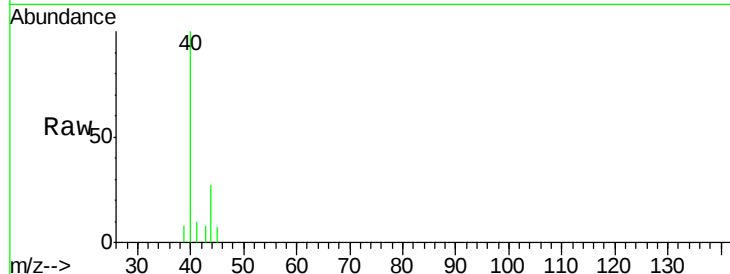




#41
Methacrylonitrile
Concen: 0.821 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.05 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

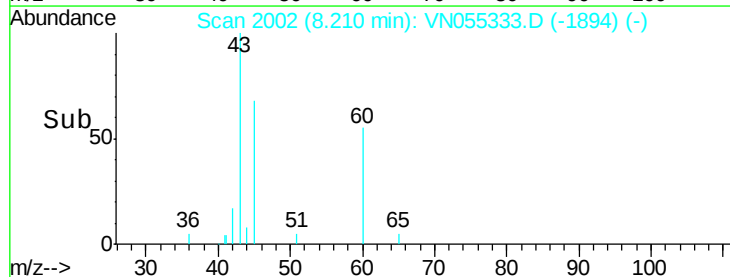
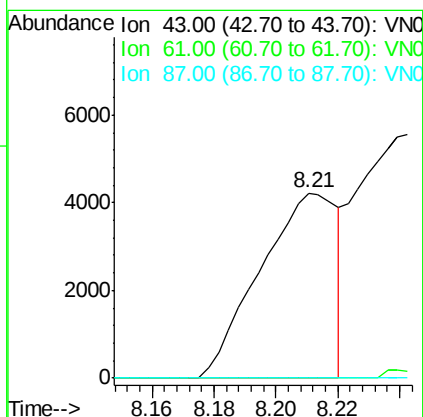
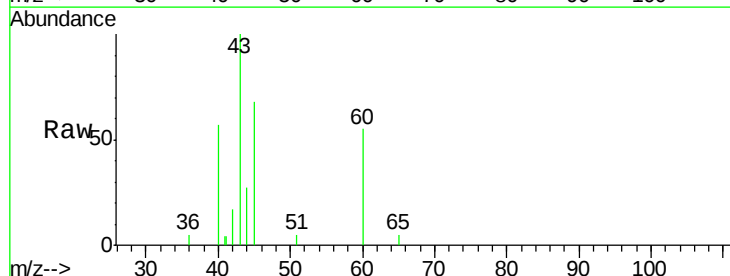
Instrument :
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GROUND-WATER

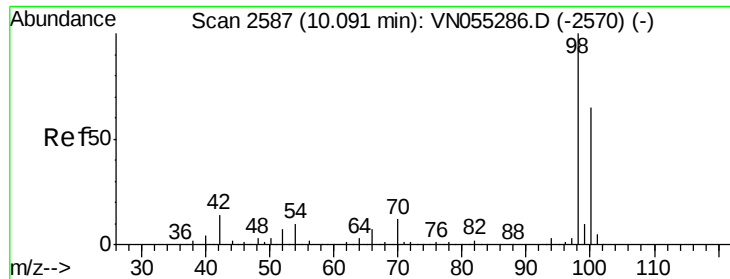
Tot Ion: 41 Resp: 201
Ion Ratio Lower Upper
41 100
39 91.0 48.5 72.7#
67 0.0 54.9 82.3#
52 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.003 ug/l
RT: 8.21 min Scan# 2002
Delta R.T. 0.05 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Tgt Ion: 43 Resp: 7294
Ion Ratio Lower Upper
43 100
61 0.0 20.8 31.2#
87 0.0 8.5 12.7#

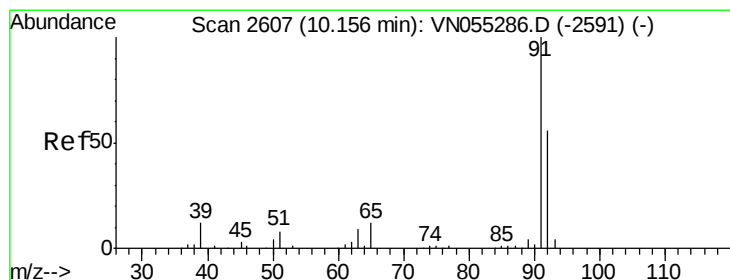
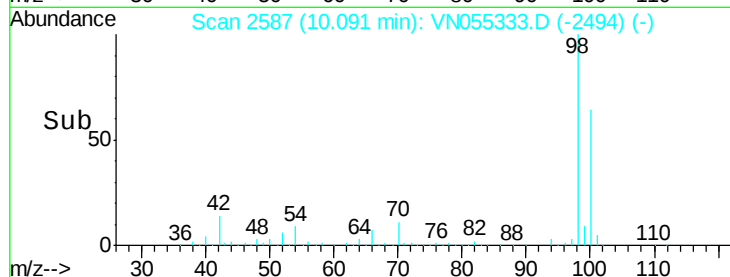
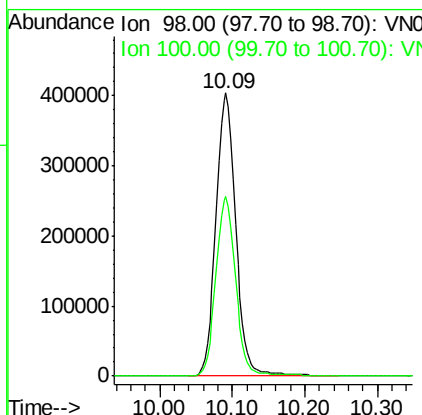
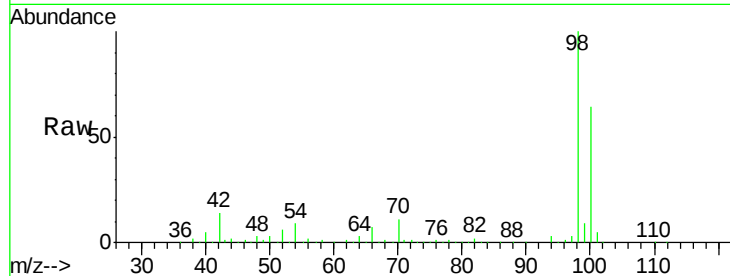




#50
Toluene-d8
Concen: 52.699 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

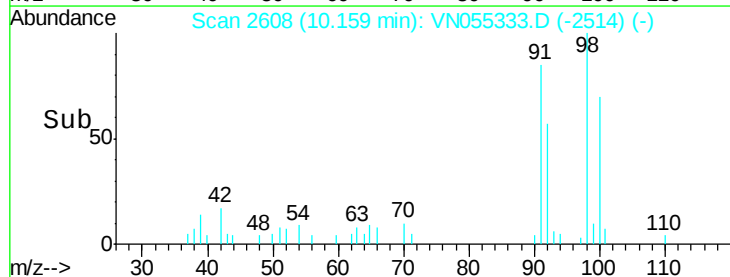
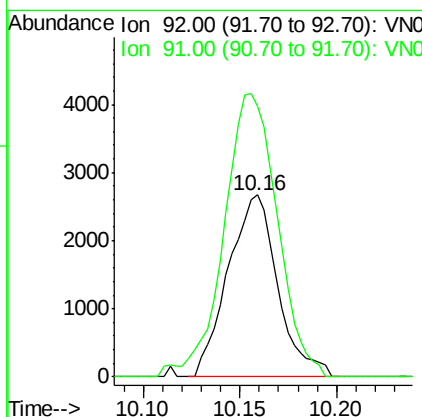
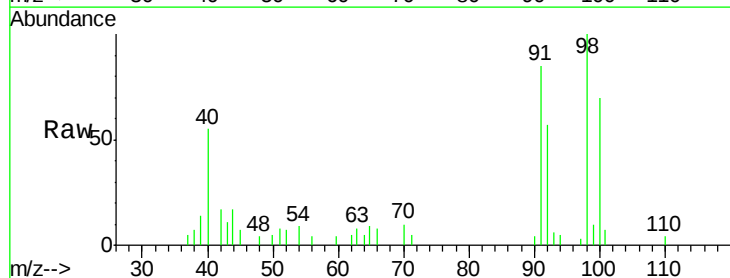
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MSVOA_N
ClientSampleId :
GROUND-WATER

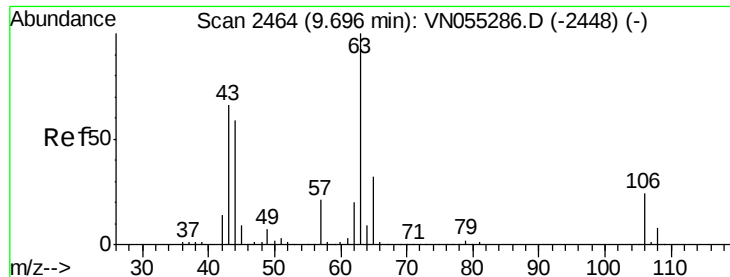
Tot Ion: 98 Resp: 770010
Ion Ratio Lower Upper
98 100
100 62.9 51.7 77.5



#52
Toluene
Concen: 0.478 ug/l
RT: 10.16 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Tgt Ion: 92 Resp: 4775
Ion Ratio Lower Upper
92 100
91 167.6 140.1 210.1

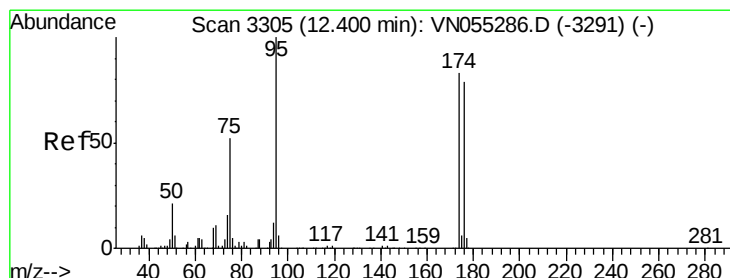
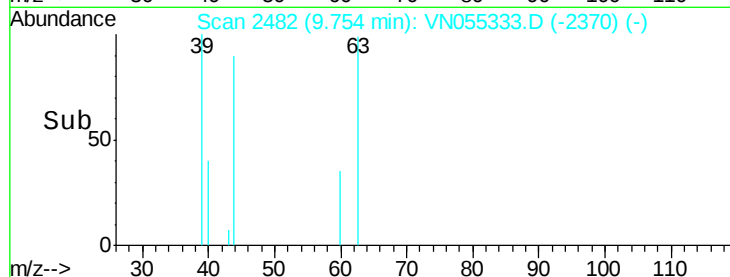
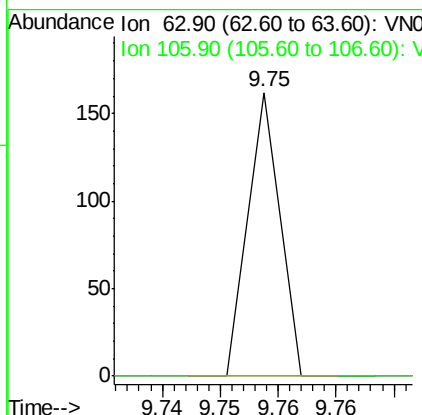
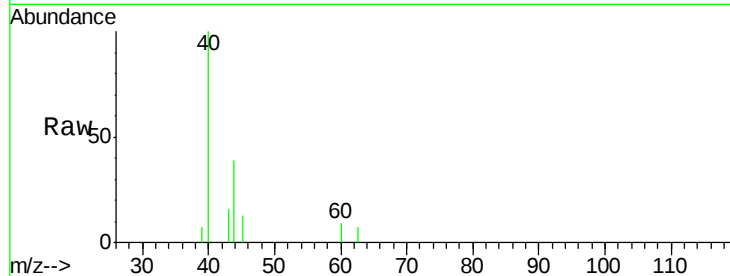




#58
 2-Chloroethyl Vinyl ether
 Concen: 12.426 ug/l
 RT: 9.75 min Scan# 2482
 Delta R.T. 0.06 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

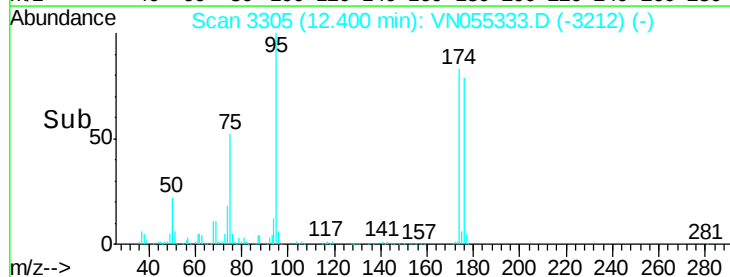
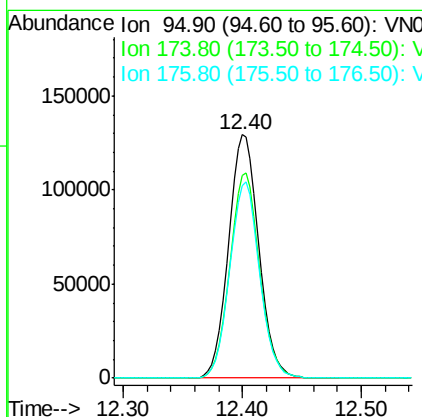
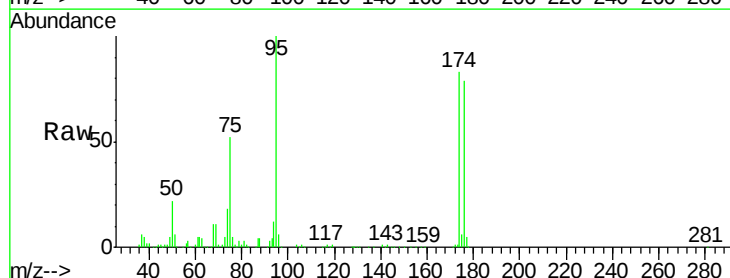
Instrument :
 MSVOA_N
 ClientSampleId :
 GROUND-WATER

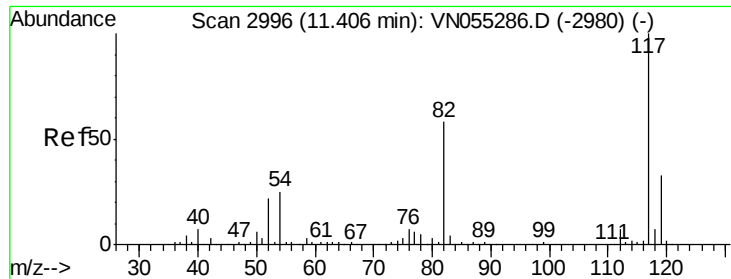
Tot Ion: 63 Resp: 31
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.0 28.4#



#62
 4-Bromofluorobenzene
 Concen: 49.885 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

Tgt Ion: 95 Resp: 227804
 Ion Ratio Lower Upper
 95 100
 174 82.7 0.0 166.6
 176 79.4 0.0 157.8

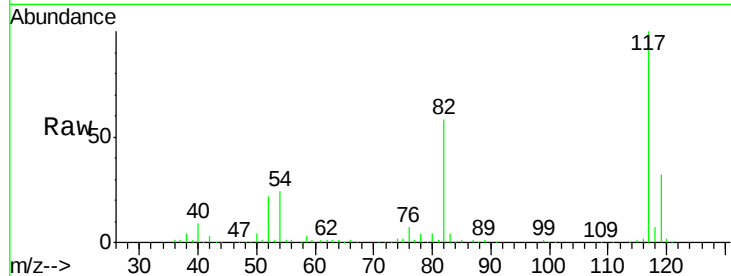




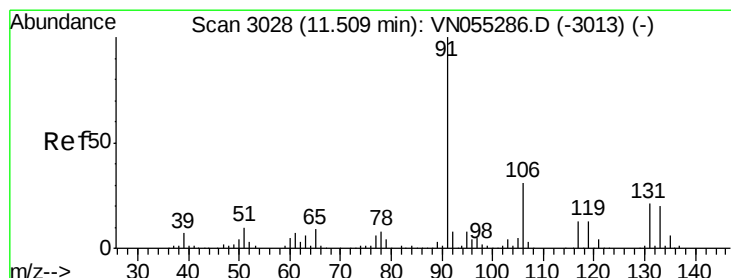
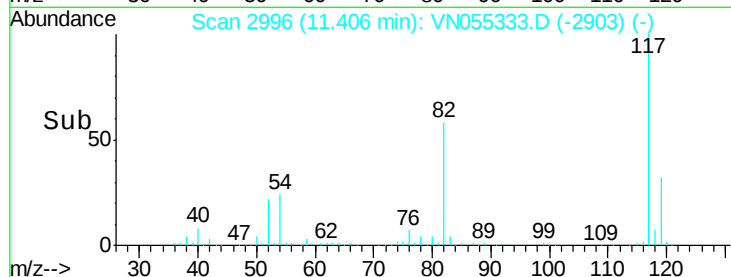
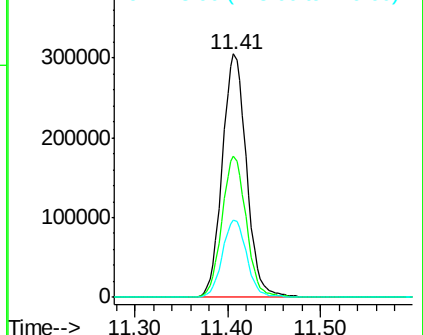
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Instrument :
MSVOA_N
ClientSampleId :
GROUND-WATER

Tot Ion:117 Resp: 553725
Ion Ratio Lower Upper
117 100
82 58.0 46.2 69.4
119 31.6 26.6 40.0

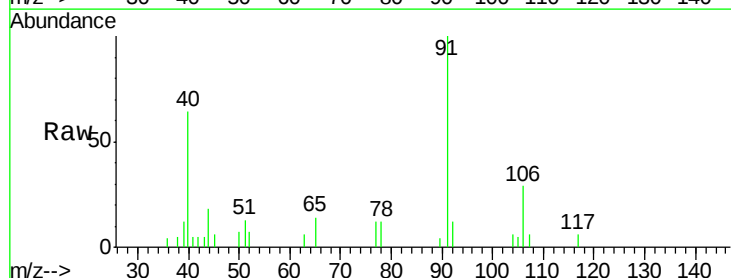


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

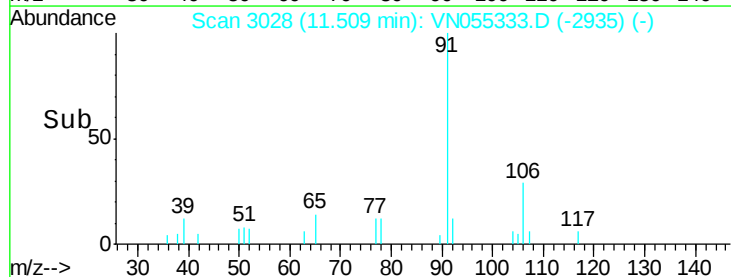
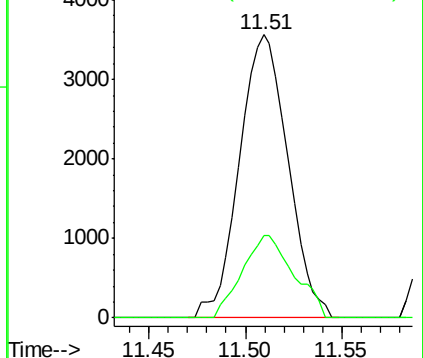


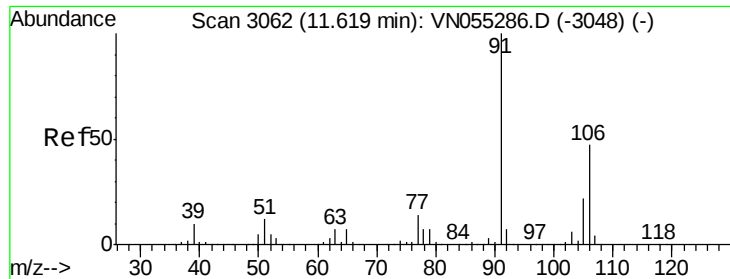
#67
Ethyl Benzene
Concen: 0.317 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Tgt Ion: 91 Resp: 6207
Ion Ratio Lower Upper
91 100
106 29.2 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V

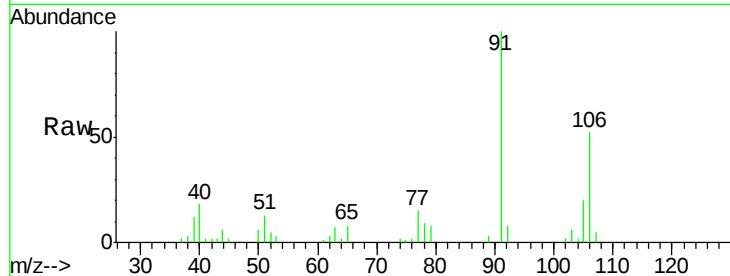




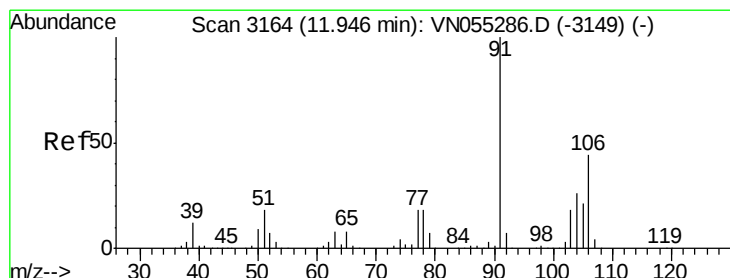
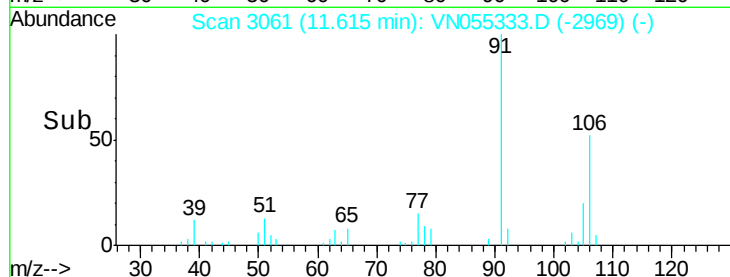
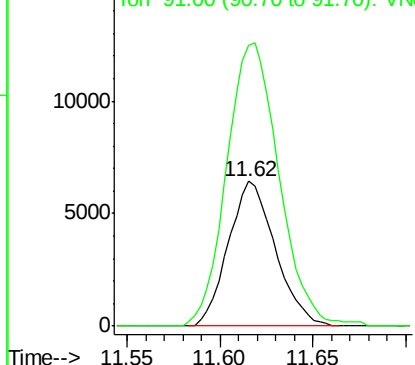
#68
m/p-Xylenes
Concen: 1.621 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Instrument :
MSVOA_N
ClientSampleId :
GROUND-WATER

Tot Ion:106 Resp: 11309
Ion Ratio Lower Upper
106 100
91 218.2 169.5 254.3

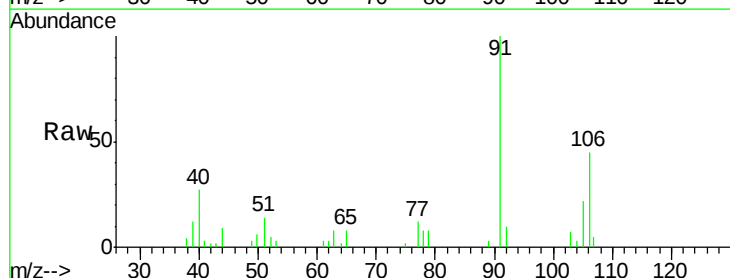


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

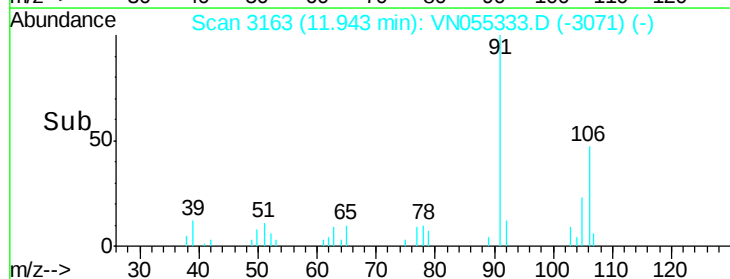
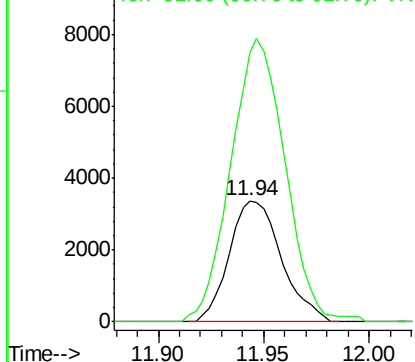


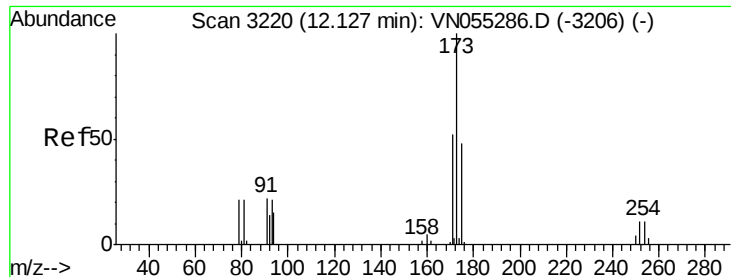
#69
o-Xylene
Concen: 0.840 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN055333.D
Acq: 1 May 2019 17:11

Tgt Ion:106 Resp: 5807
Ion Ratio Lower Upper
106 100
91 242.9 111.5 334.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0





#71

Bromoform

Concen: 0.904 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055333.D

Acq: 1 May 2019 17:11

Instrument :

MSVOA_N

ClientSampleId :

GROUND-WATER

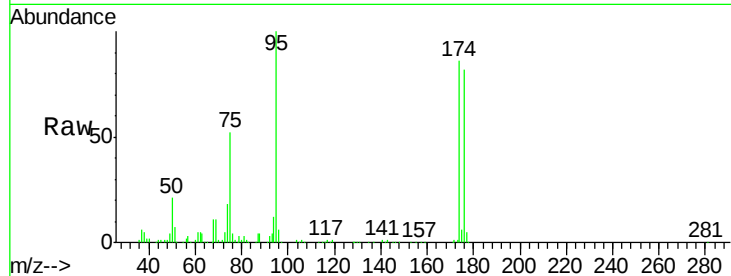
Tot Ion:173 Resp: 2127

Ion Ratio Lower Upper

173 100

175 555.9 23.6 71.0#

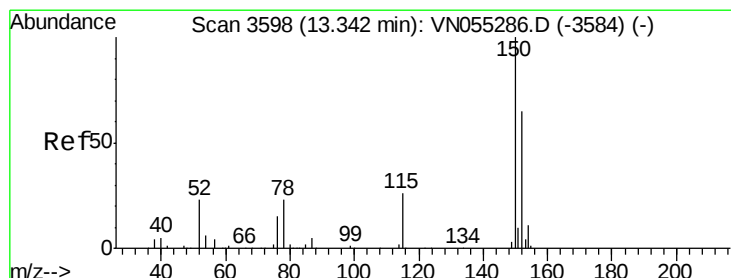
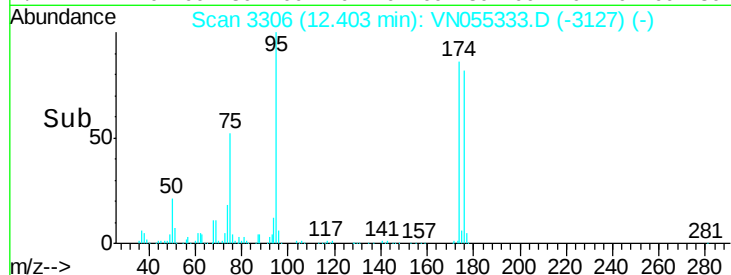
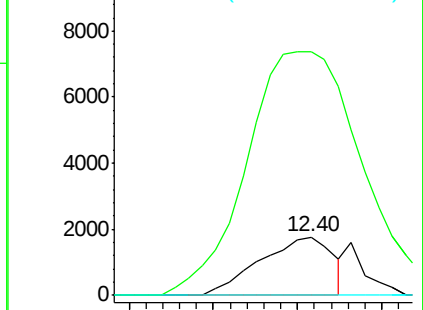
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055333.D

Acq: 1 May 2019 17:11

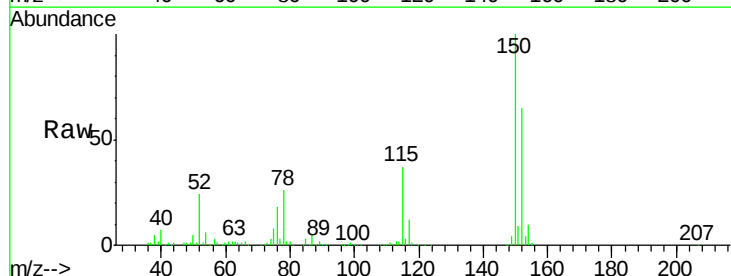
Tgt Ion:152 Resp: 143428

Ion Ratio Lower Upper

152 100

115 57.2 29.0 87.0

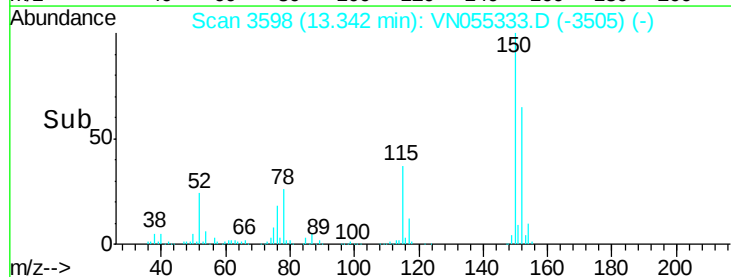
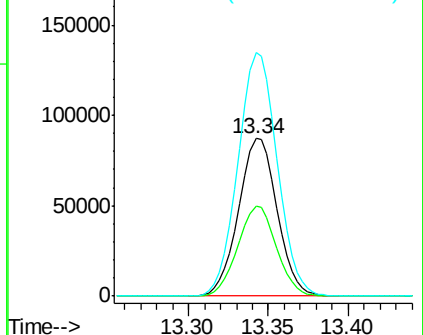
150 156.9 0.0 345.6

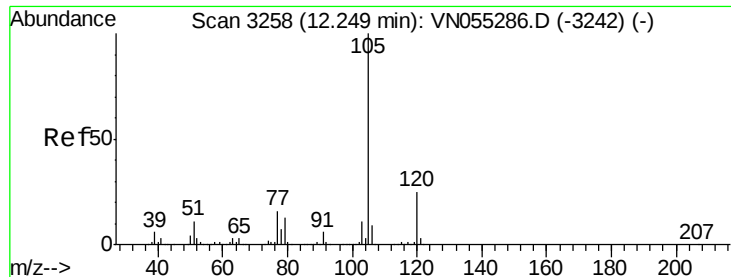


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055333.D

Acq: 1 May 2019 17:11

Instrument :

MSVOA_N

ClientSampleId :

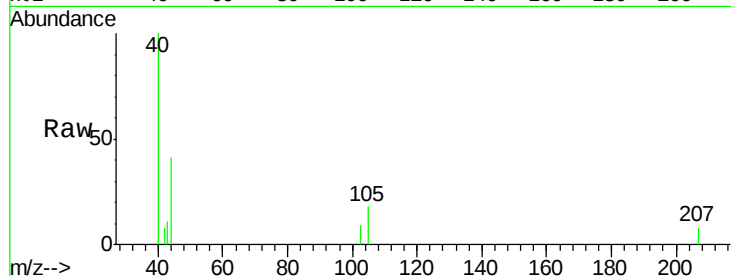
GROUND-WATER

Tot Ion:105 Resp: 310

Ion Ratio Lower Upper

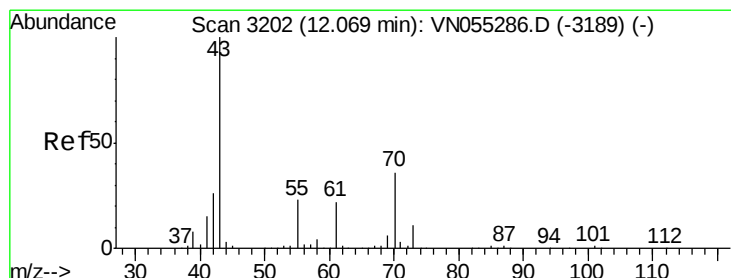
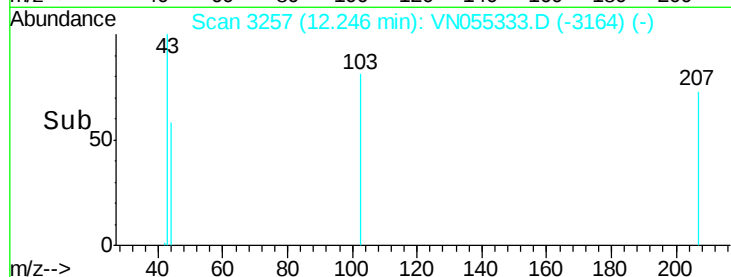
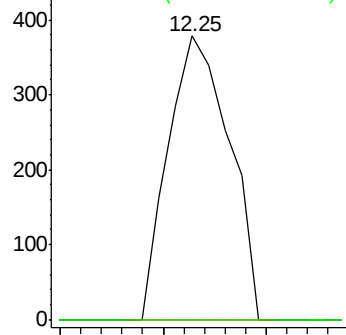
105 100

120 0.0 12.9 38.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.701 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN055333.D

Acq: 1 May 2019 17:11

Tgt Ion: 43 Resp: 9942

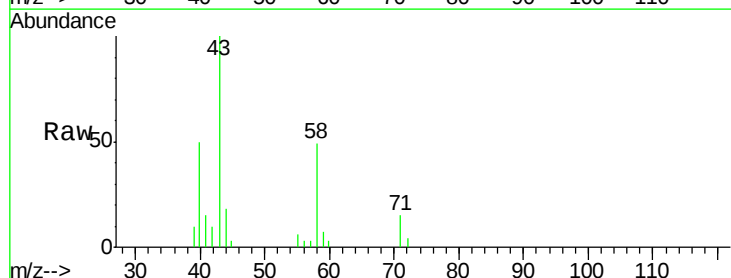
Ion Ratio Lower Upper

43 100

70 0.0 27.9 41.9#

55 6.6 18.2 27.2#

61 0.0 16.9 25.3#

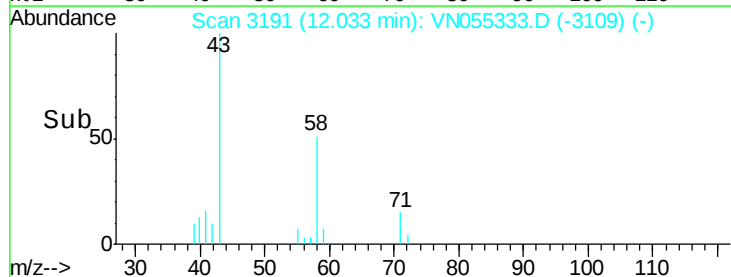
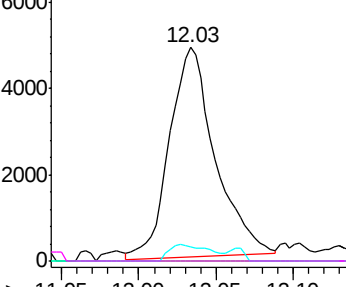


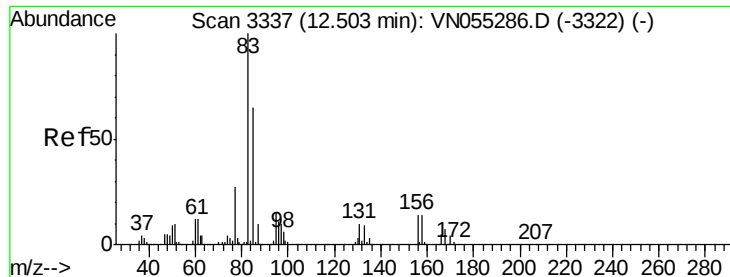
Abundance Ion 43.00 (42.70 to 43.70): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN055333.D

Acq: 1 May 2019 17:11

Instrument :

MSVOA_N

ClientSampleId :

GROUND-WATER

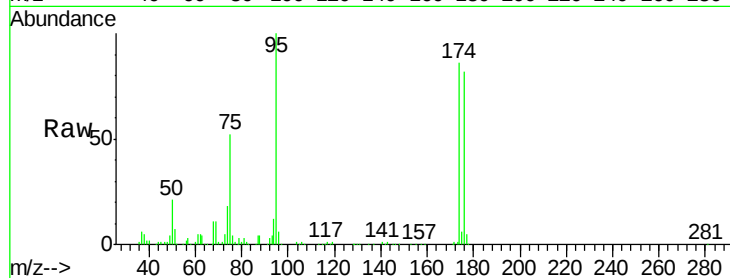
Tot Ion: 83 Resp: 126

Ion Ratio Lower Upper

83 100

131 194.4 5.1 15.2#

85 0.0 32.3 96.8#

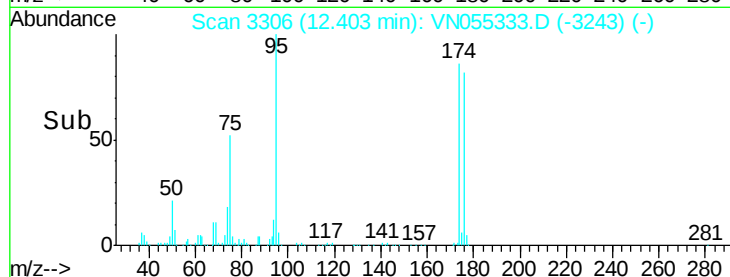


Abundance Ion 82.90 (82.60 to 83.60): VN0

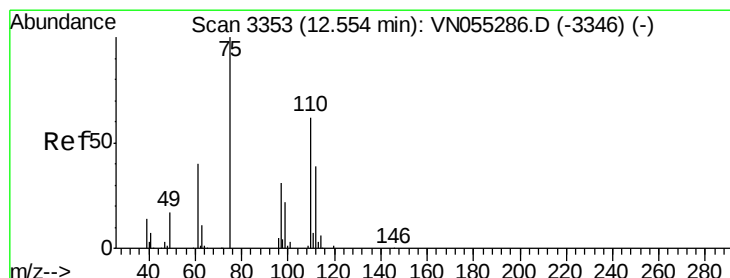
Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 43.668 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055333.D

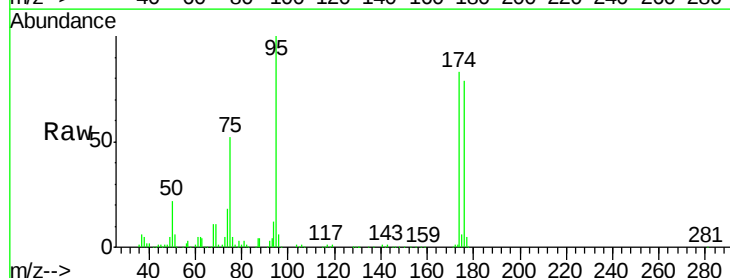
Acq: 1 May 2019 17:11

Tgt Ion: 75 Resp: 117268

Ion Ratio Lower Upper

75 100

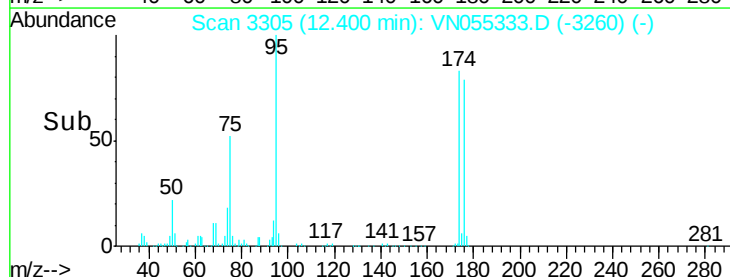
77 1.2 0.0 0.0#



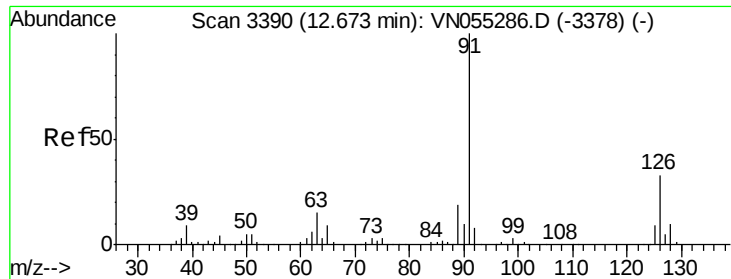
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

Time-->



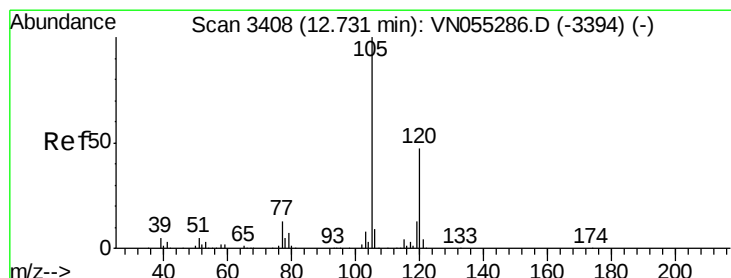
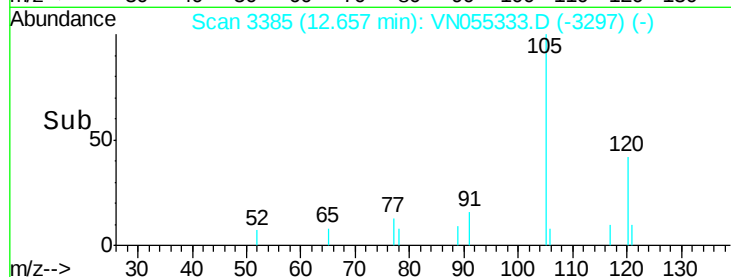
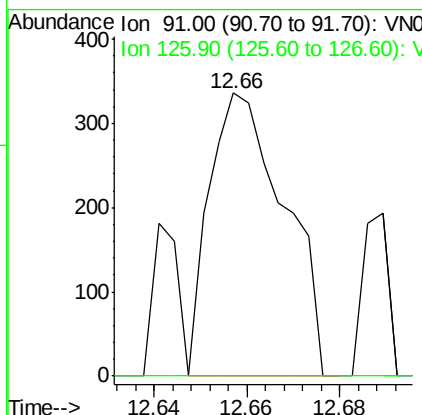
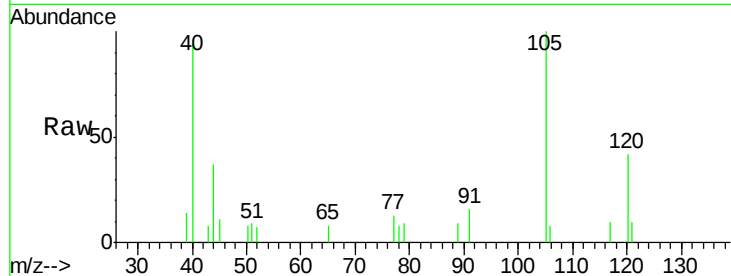
Time-->



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.66 min Scan# 3385
 Delta R.T. -0.02 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

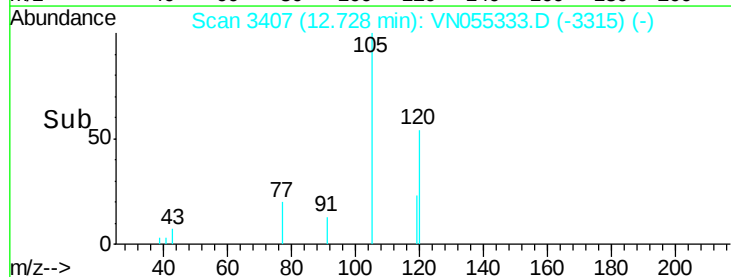
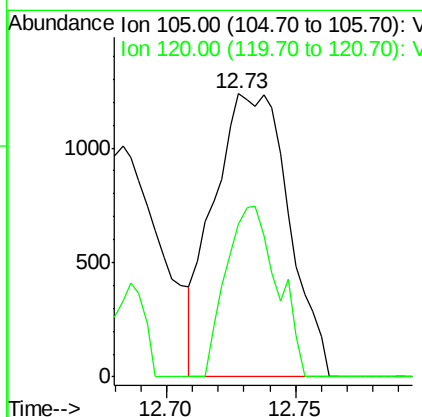
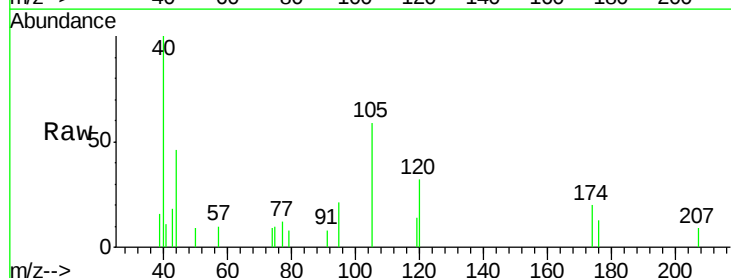
Instrument :
 MSVOA_N
 ClientSampleId :
 GROUND-WATER

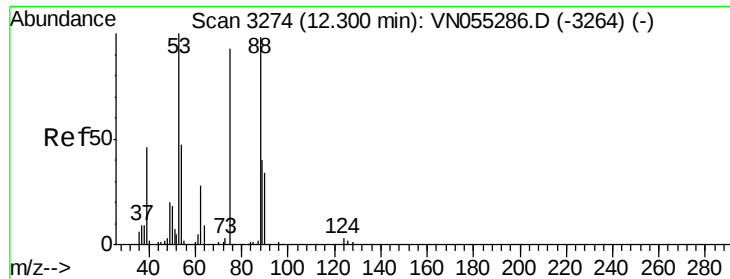
Tot Ion: 91 Resp: 376
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.6 49.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.222 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.00 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

Tgt Ion: 105 Resp: 2498
 Ion Ratio Lower Upper
 105 100
 120 41.3 23.4 70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 154.942 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055333.D

Acq: 1 May 2019 17:11

Instrument :

MSVOA_N

ClientSampleId :

GROUND-WATER

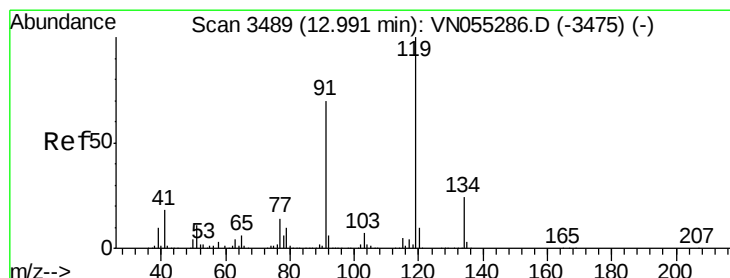
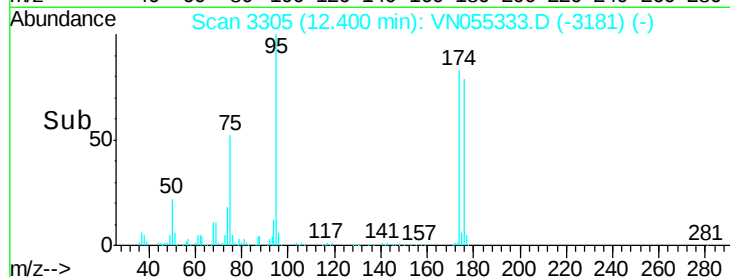
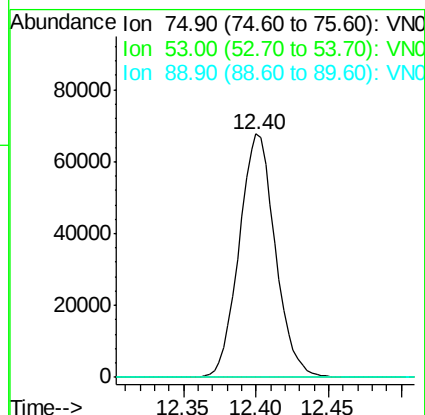
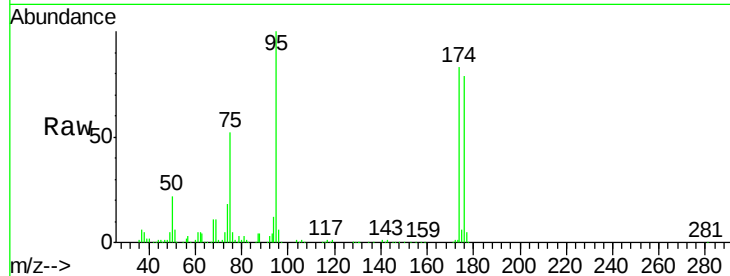
Tot Ion: 75 Resp: 117268

Ion Ratio Lower Upper

75 100

53 0.0 86.3 129.5#

89 0.0 34.6 51.8#



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.03 min Scan# 3502

Delta R.T. 0.04 min

Lab File: VN055333.D

Acq: 1 May 2019 17:11

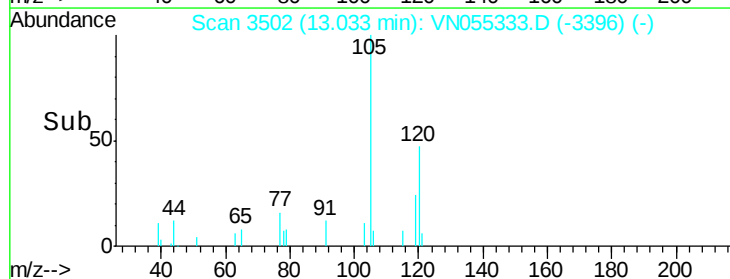
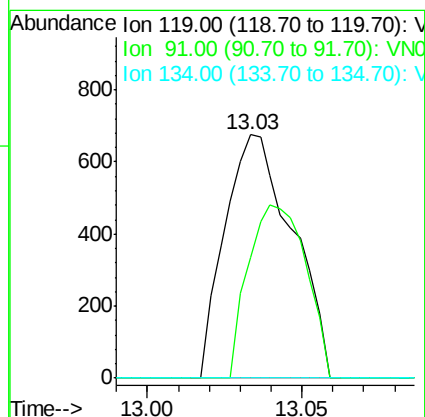
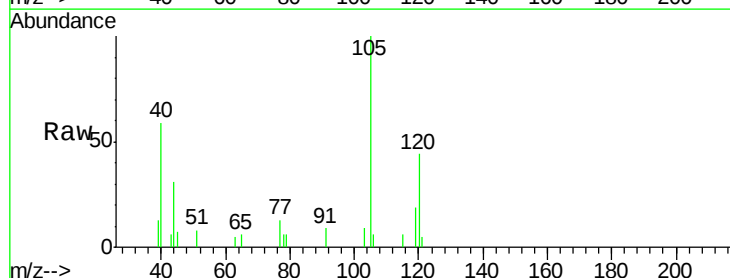
Tgt Ion: 119 Resp: 1028

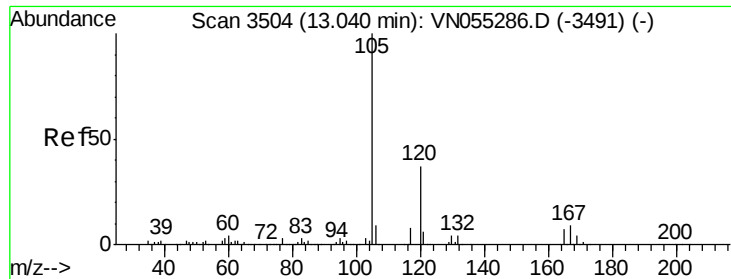
Ion Ratio Lower Upper

119 100

91 60.5 34.3 102.9

134 0.0 13.1 39.3#

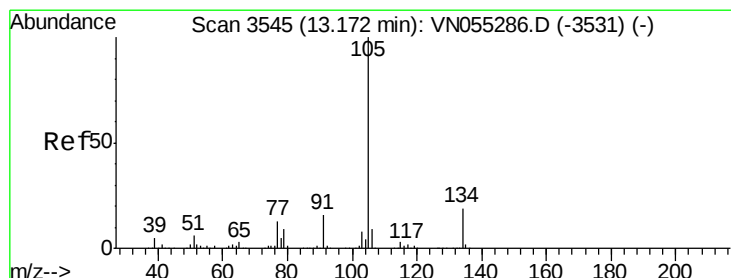
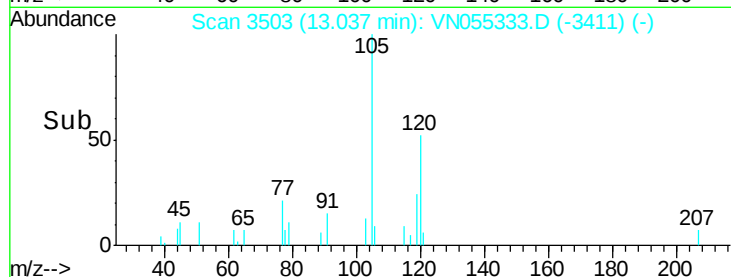
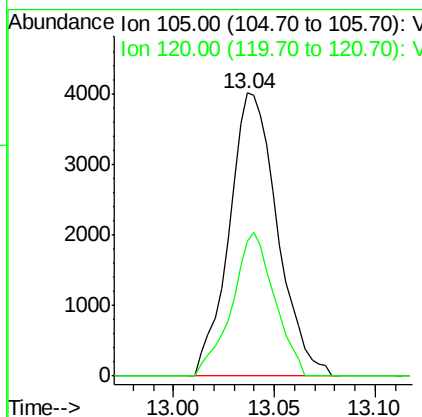
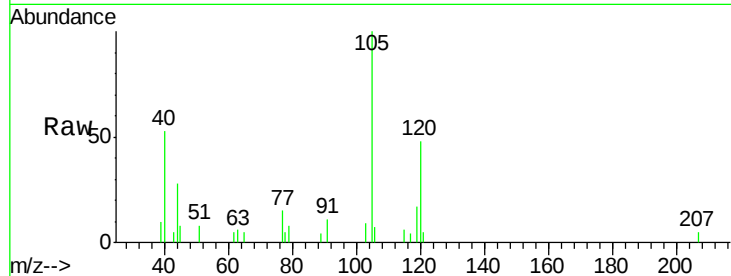




#84
 1,2,4-Trimethylbenzene
 Concen: 0.666 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

Instrument :
 MSVOA_N
 ClientSampleId :
 GROUND-WATER

Tot Ion:105 Resp: 6693
 Ion Ratio Lower Upper
 105 100
 120 45.0 22.1 66.5



#85
 sec-Butylbenzene
 Concen: 0.548 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.13 min
 Lab File: VN055333.D
 Acq: 1 May 2019 17:11

Tgt Ion:105 Resp: 6693
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.6 28.8#

