

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121219\
 Data File : VN059578.D
 Acq On : 12 Dec 2019 16:39
 Operator : JC/SP
 Sample : K6283-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GROUNDWATER

Quant Time: Dec 13 04:08:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	249912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	397952	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	352493	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145627	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	176751	50.60	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.20%	
35) Dibromofluoromethane	7.57	113	125105	52.68	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.36%	
50) Toluene-d8	10.08	98	486806	50.21	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.42%	
62) 4-Bromofluorobenzene	12.40	95	163389	45.53	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.77	56	1188	4.225	ug/l	87
15) Acrylonitrile	5.01	53	553	0.363	ug/l #	28
16) Acetone	3.78	43	10957	6.715	ug/l #	72
17) Carbon Disulfide	4.02	76	3797	Below Cal	#	91
20) Methylene Chloride	4.53	84	217	Below Cal	#	12
25) 2-Butanone	6.82	43	1088	0.495	ug/l #	50
28) Bromochloromethane	7.34	49	4259	5.040	ug/l #	18
30) Chloroform	7.35	83	47805	8.956	ug/l	97
31) Cyclohexane	7.64	56	24855	4.723	ug/l #	78
36) 1,1-Dichloropropene	7.64	75	21098	5.167	ug/l #	50
37) Ethyl Acetate	6.87	43	106	1.559	ug/l #	69
38) Carbon Tetrachloride	7.64	117	25770	6.403	ug/l #	17
39) Methylcyclohexane	9.06	83	7895	1.724	ug/l	95
40) Benzene	8.02	78	12356	1.059	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	555	Below Cal	#	37
52) Toluene	10.15	92	1608	0.231	ug/l	95
55) 1,1,2-Trichloroethane	10.52	97	995	0.354	ug/l #	13
56) Ethyl methacrylate	10.52	69	165	2.160	ug/l #	1
59) 2-Hexanone	10.76	43	779	2.440	ug/l #	52
67) Ethyl Benzene	11.51	91	5252	0.395	ug/l	95
68) m/p-Xylenes	11.62	106	2198	0.441	ug/l	98
69) o-Xylene	11.95	106	988	0.213	ug/l	92
71) Bromoform	12.40	173	829	0.382	ug/l #	1
73) Isopropylbenzene	12.25	105	22271	2.039	ug/l	98
76) 1,2,3-Trichloropropane	12.40	75	87321	23.448	ug/l #	100
78) n-propylbenzene	12.59	91	45439	3.385	ug/l	97
79) 2-Chlorotoluene	12.59	91	45439	5.677	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.89	105	66790	7.130	ug/l	72
81) trans-1,4-Dichloro-2-buten	12.40	75	87321	63.086	ug/l #	16
82) 4-Chlorotoluene	12.89	91	9093	1.111	ug/l #	42
84) 1,2,4-Trimethylbenzene	13.04	105	3468	0.375	ug/l	82
89) n-Butylbenzene	13.62	91	1958	0.217	ug/l	86
90) Hexachloroethane	13.95	117	3793	2.154	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.24	75	163	2.264	ug/l #	3

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Quant Title : SW846 8260
QLast Update : Tue Dec 10 01:09:52 2019
Response via : Initial Calibration

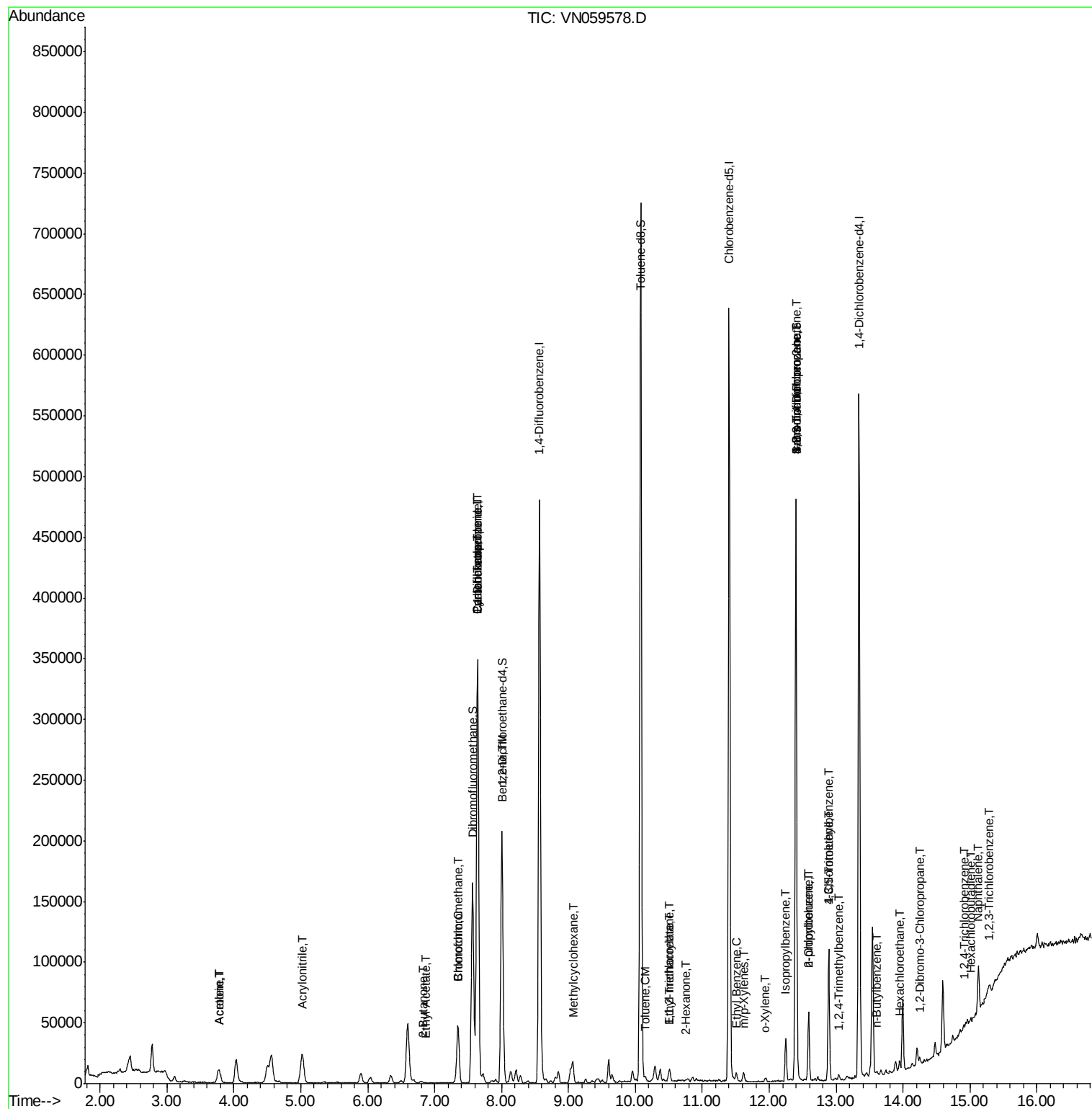
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1312	0.404	ug/l #	44
94) Hexachlorobutadiene	15.01	225	442	0.266	ug/l	89
95) Naphthalene	15.13	128	29345	3.088	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	1533	2.871	ug/l	88

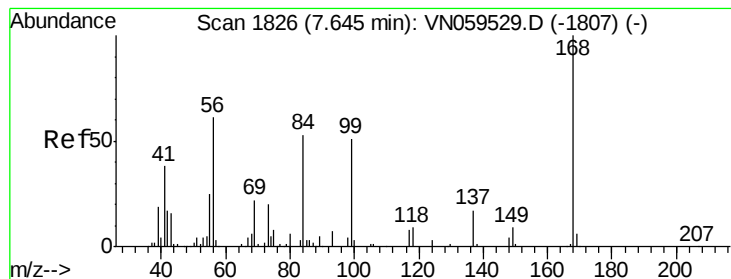
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

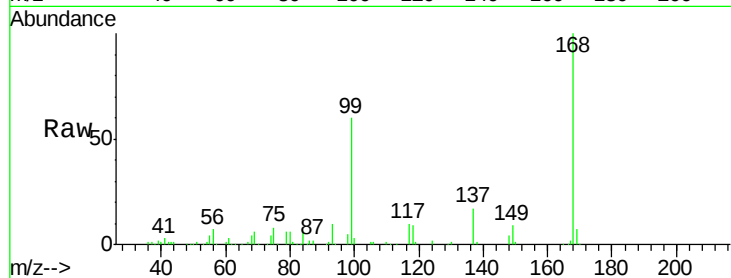
GROUNDWATER

Tgt Ion:168 Resp: 249912

Ion Ratio Lower Upper

168 100

99 60.1 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): VN059529.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059529.D (-1807) (-)

7.64

120000

100000

80000

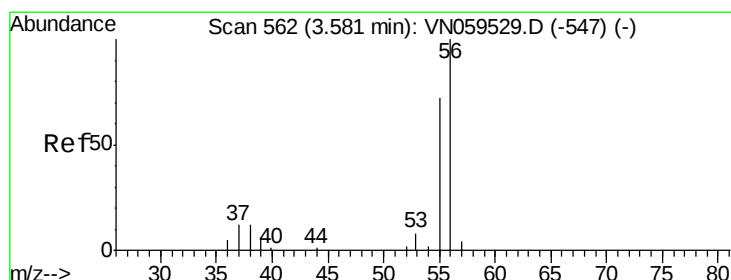
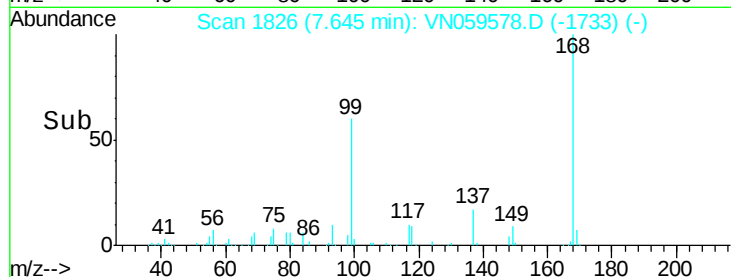
60000

40000

20000

0

Time-->



#13

Acrolein

Concen: 4.225 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.19 min

Lab File: VN059578.D

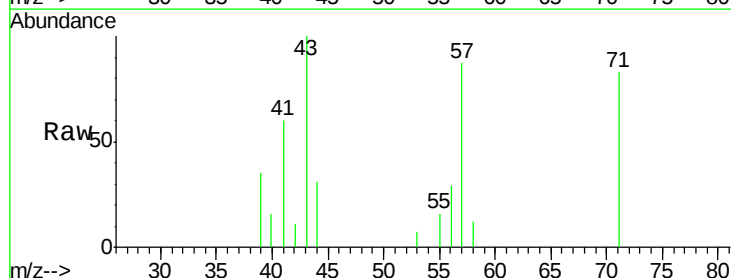
Acq: 12 Dec 2019 16:39

Tgt Ion: 56 Resp: 1188

Ion Ratio Lower Upper

56 100

55 82.2 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VN059529.D (-547) (-)

Ion 55.00 (54.70 to 55.70): VN059529.D (-547) (-)

3.77

800

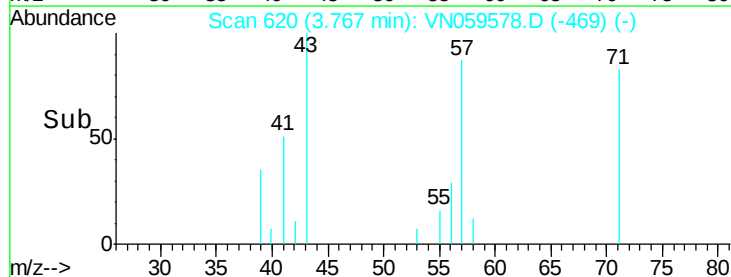
600

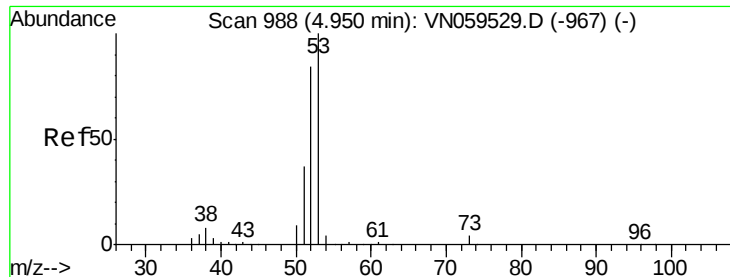
400

200

0

Time-->





#15

Acrylonitrile

Concen: 0.363 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. 0.06 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

GROUNDWATER

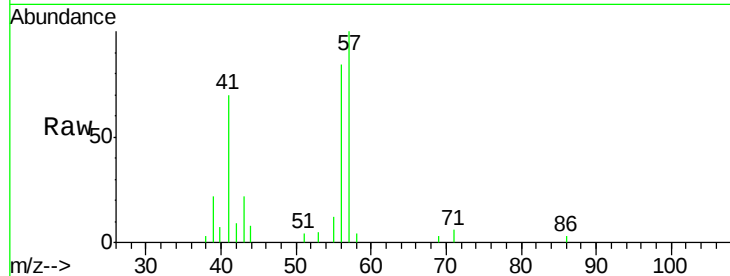
Tgt Ion: 53 Resp: 553

Ion Ratio Lower Upper

53 100

52 0.0 66.6 99.8#

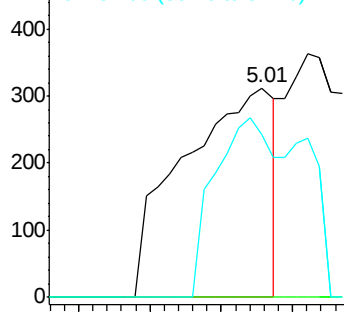
51 53.3 29.8 44.8#



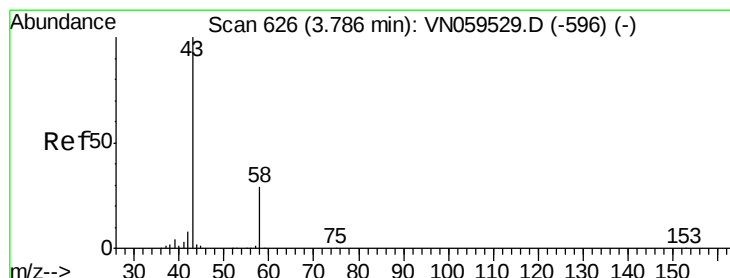
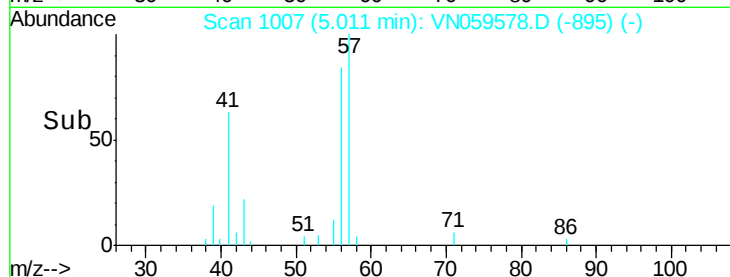
Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



Time-->



#16

Acetone

Concen: 6.715 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.01 min

Lab File: VN059578.D

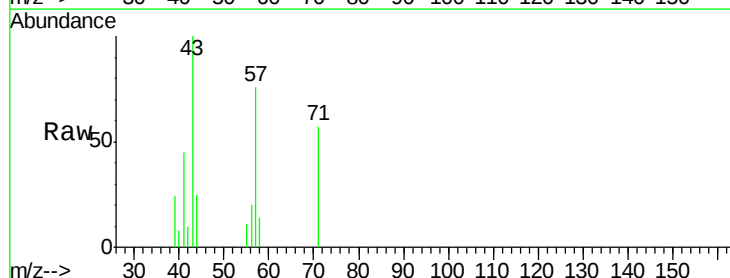
Acq: 12 Dec 2019 16:39

Tgt Ion: 43 Resp: 10957

Ion Ratio Lower Upper

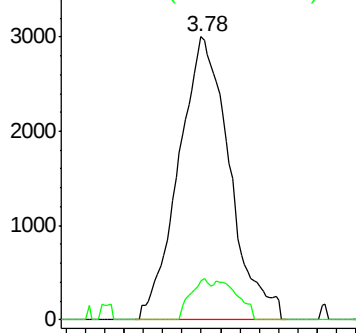
43 100

58 13.7 23.0 34.4#

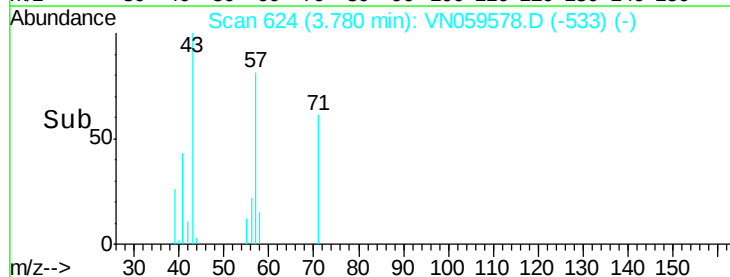


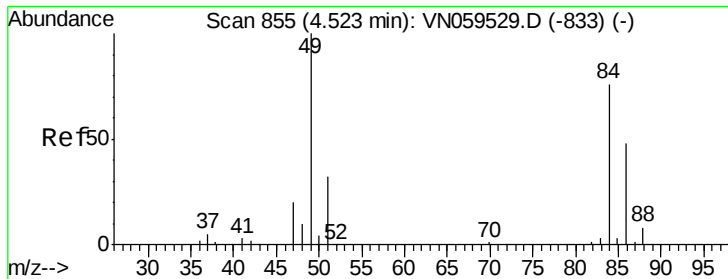
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

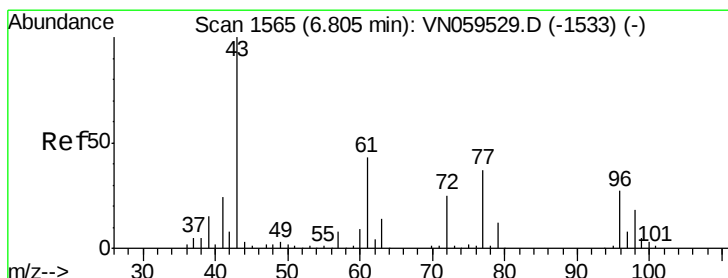
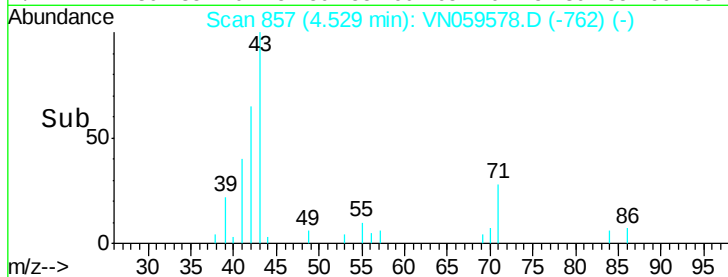
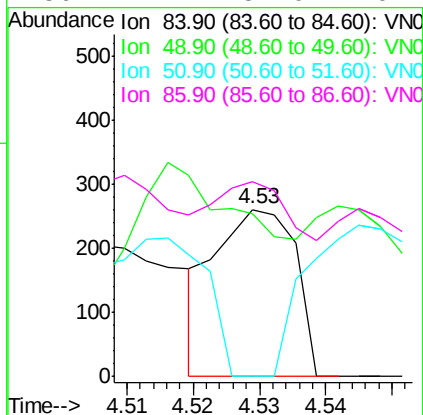
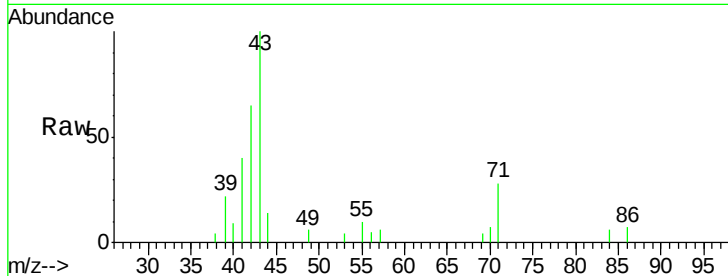




#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

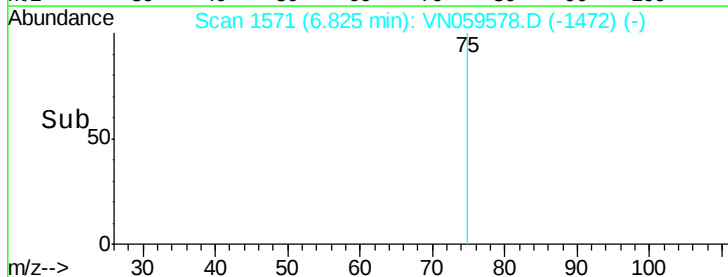
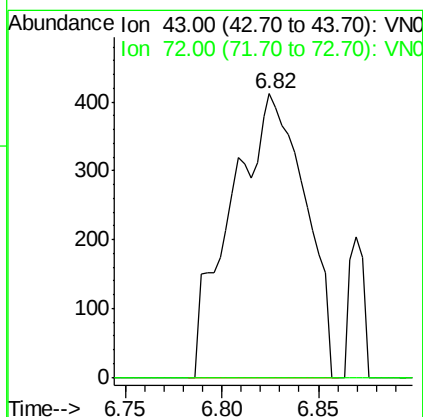
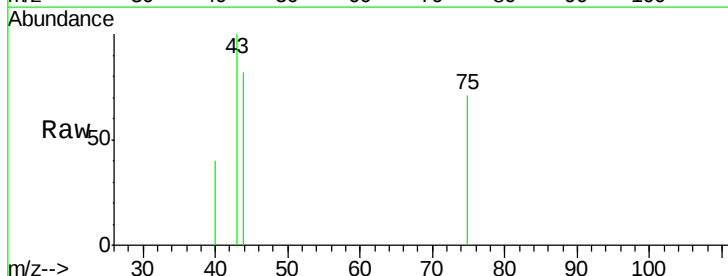
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

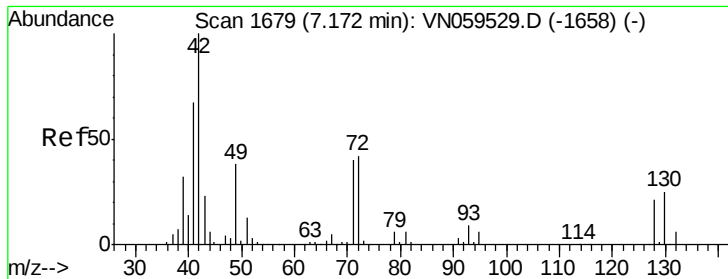
Tgt Ion: 84 Resp: 217
Ion Ratio Lower Upper
84 100
49 0.0 105.8 158.8#
51 0.0 33.7 50.5#
86 24.2 51.0 76.4#



#25
2-Butanone
Concen: 0.495 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.02 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Tgt Ion: 43 Resp: 1088
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#





#28

Bromochloromethane

Concen: 5.040 ug/l

RT: 7.34 min Scan# 1732

Delta R.T. 0.17 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

GROUNDWATER

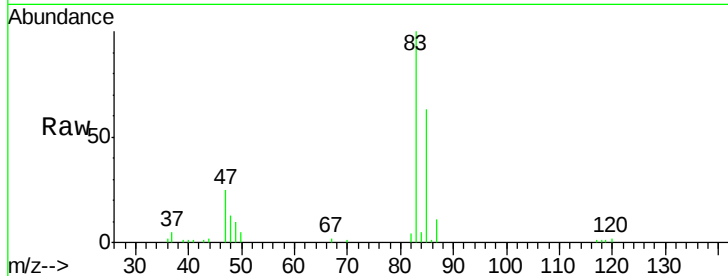
Tgt Ion: 49 Resp: 4259

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.0

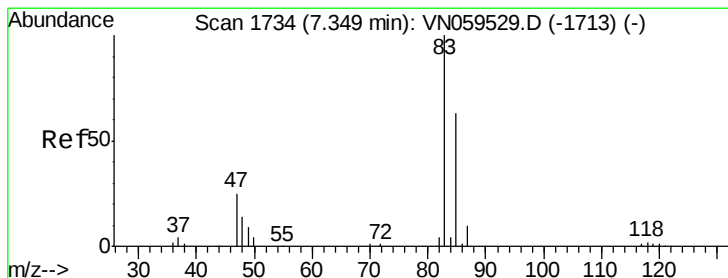
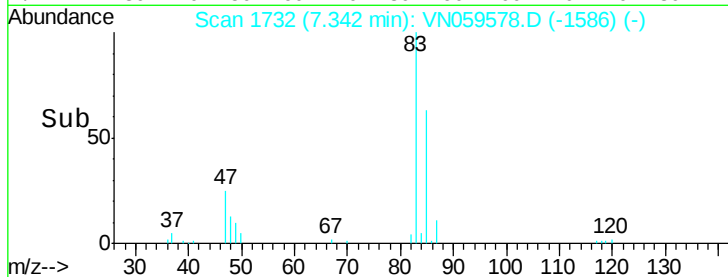
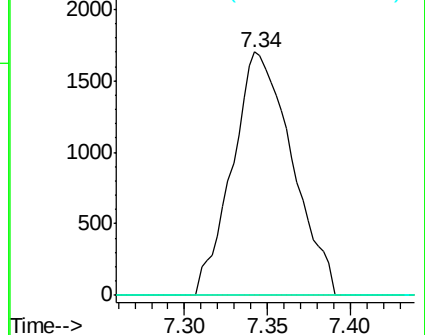
130 0.0 54.2 81.2#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 8.956 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. -0.00 min

Lab File: VN059578.D

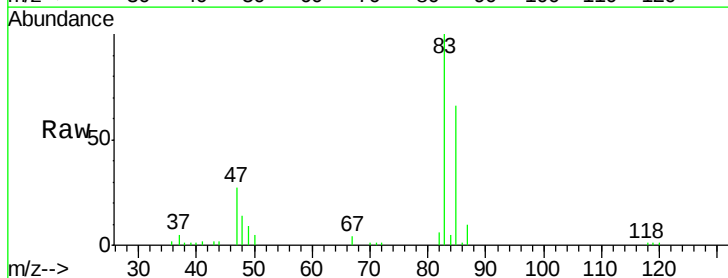
Acq: 12 Dec 2019 16:39

Tgt Ion: 83 Resp: 47805

Ion Ratio Lower Upper

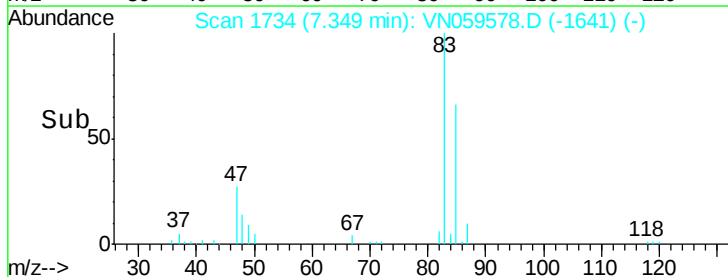
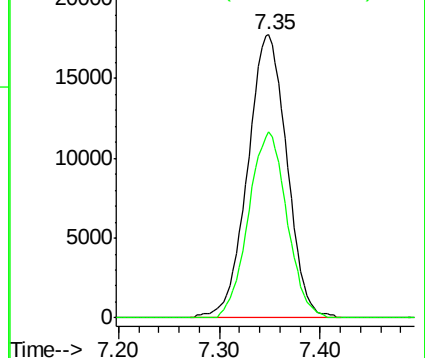
83 100

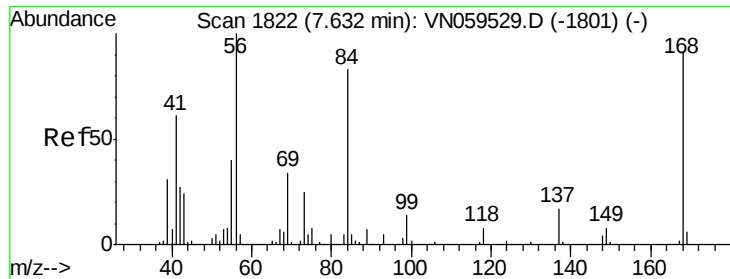
85 65.8 50.6 75.8



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

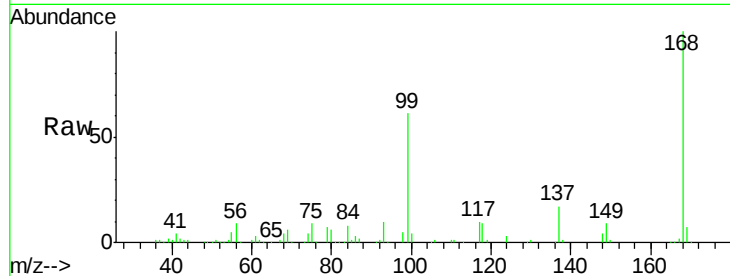




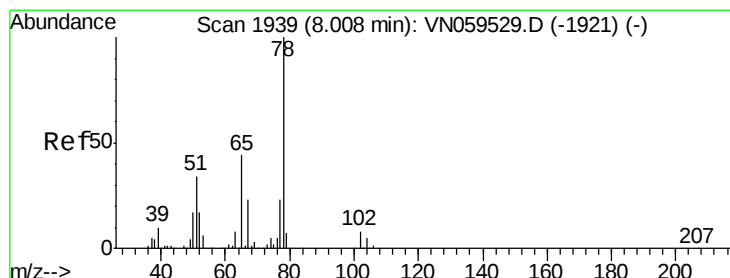
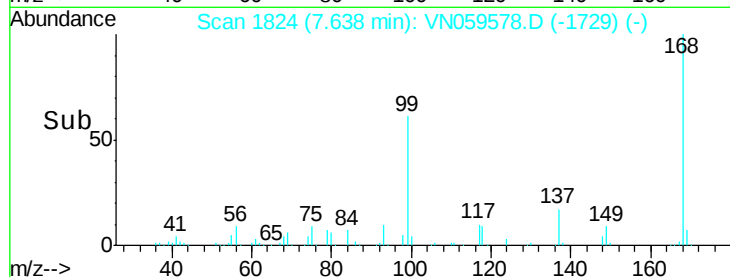
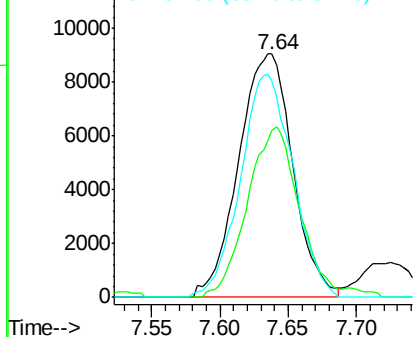
#31
Cyclohexane
Concen: 4.723 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Instrument :
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Tgt Ion: 56 Resp: 24855
Ion Ratio Lower Upper
56 100
69 68.8 26.9 40.3#
84 89.1 66.5 99.7

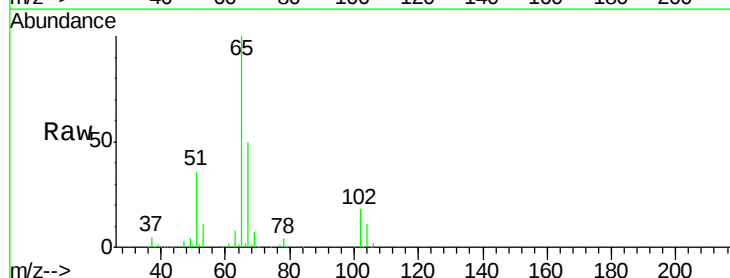


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

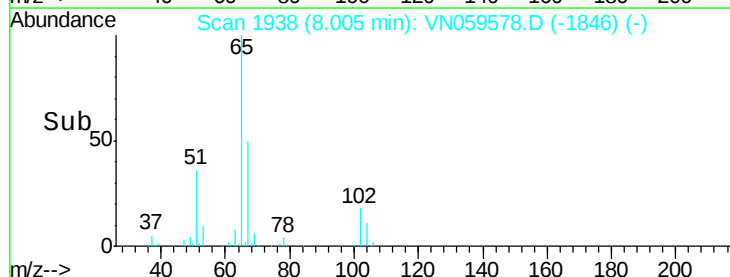
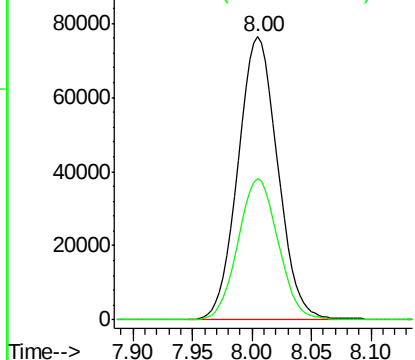


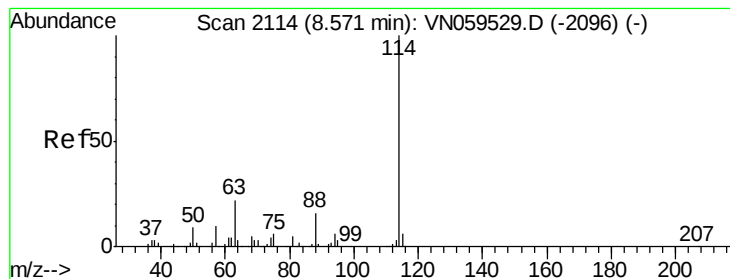
#33
1,2-Dichloroethane-d4
Concen: 50.604 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Tgt Ion: 65 Resp: 176751
Ion Ratio Lower Upper
65 100
67 50.5 0.0 103.6



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: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

GROUNDWATER

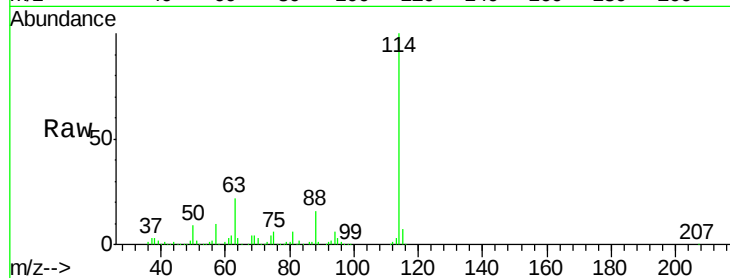
Tgt Ion:114 Resp: 397952

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.0

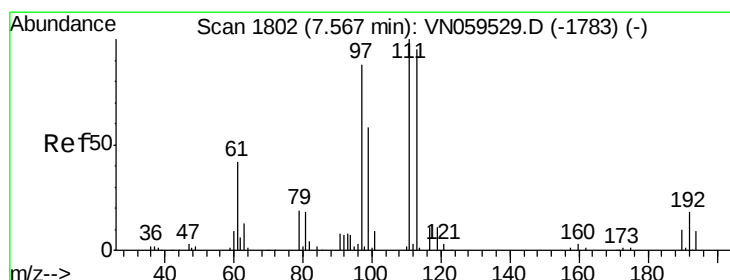
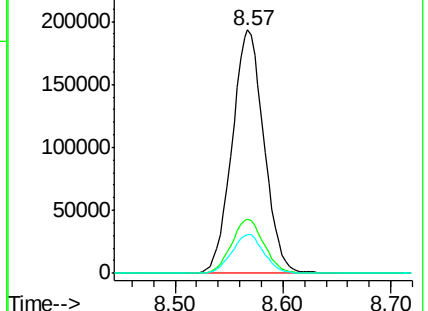
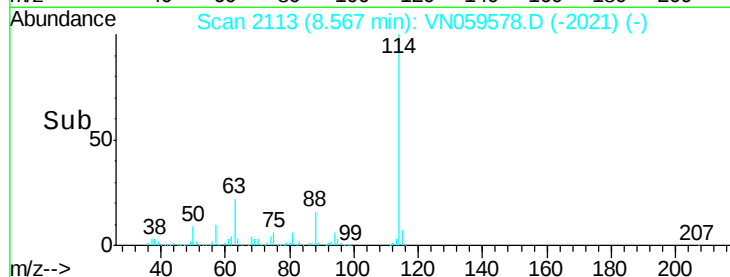
88 16.1 0.0 32.2



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: 52.681 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

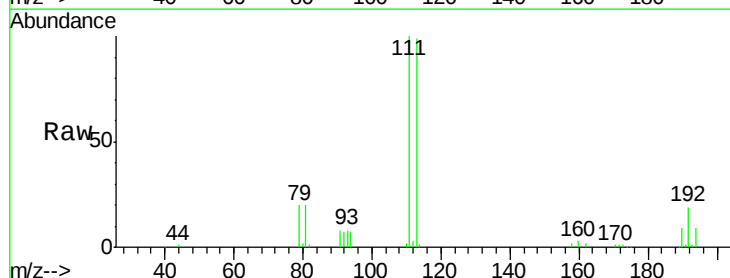
Tgt Ion:113 Resp: 125105

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

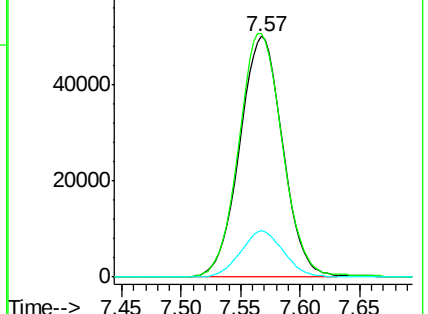
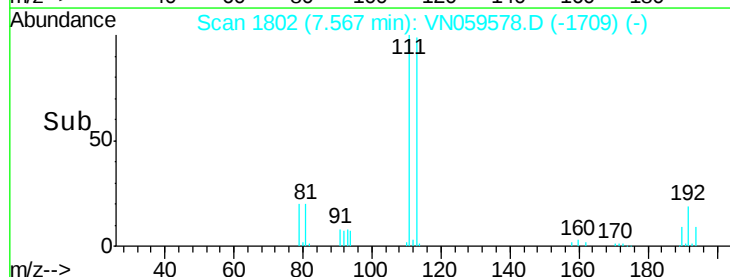
192 19.2 14.8 22.2

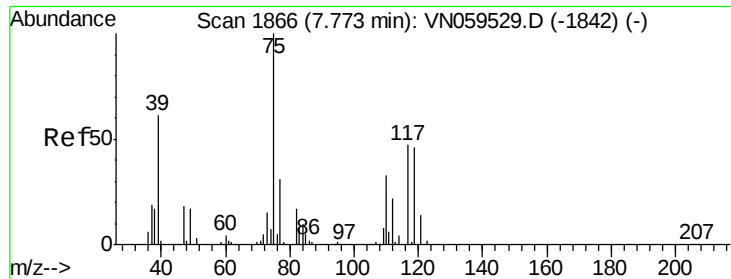


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.167 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

GROUNDWATER

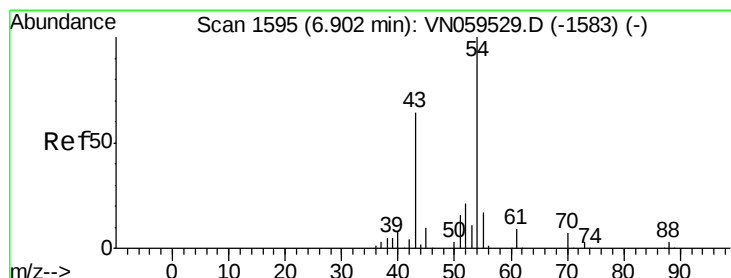
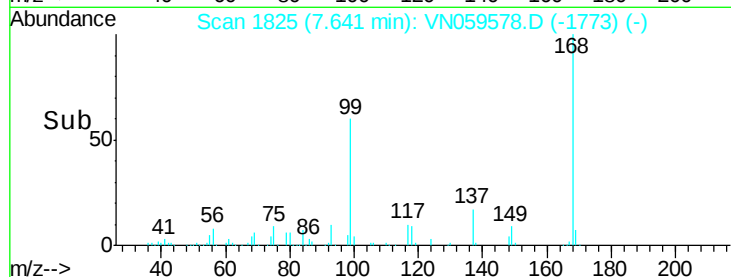
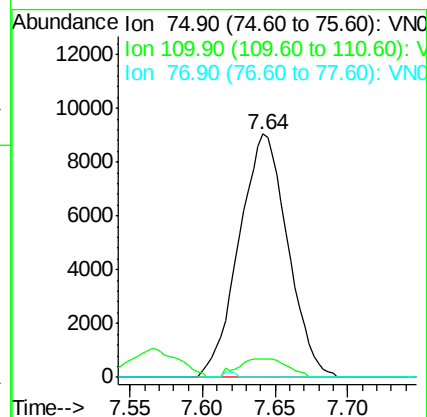
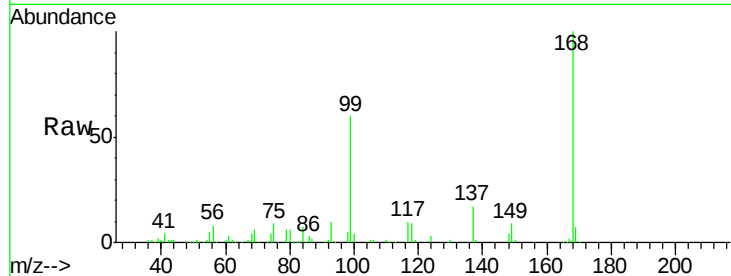
Tgt Ion: 75 Resp: 21098

Ion Ratio Lower Upper

75 100

110 7.7 16.7 50.0#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 1.559 ug/l

RT: 6.87 min Scan# 1585

Delta R.T. -0.03 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

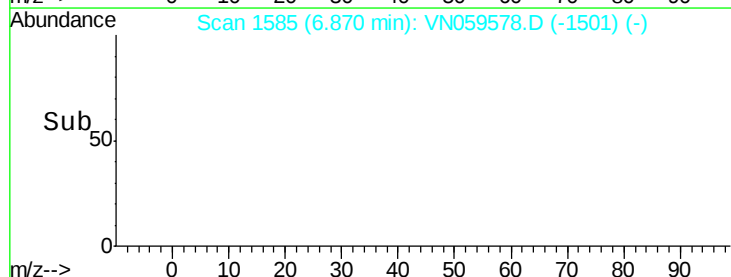
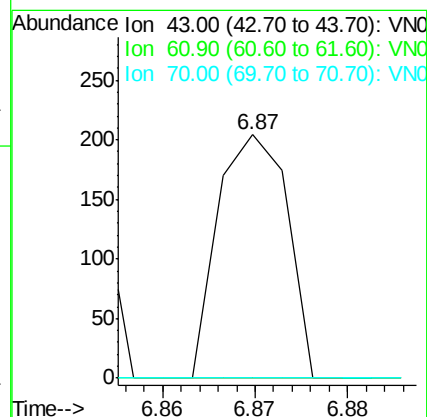
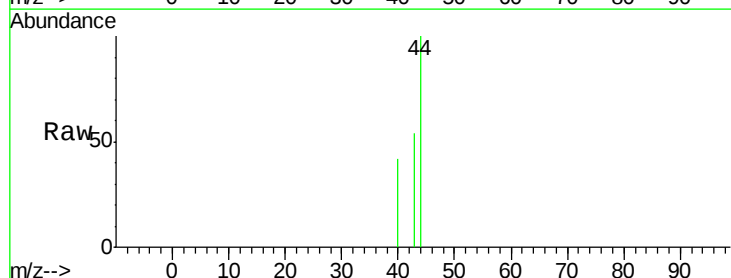
Tgt Ion: 43 Resp: 106

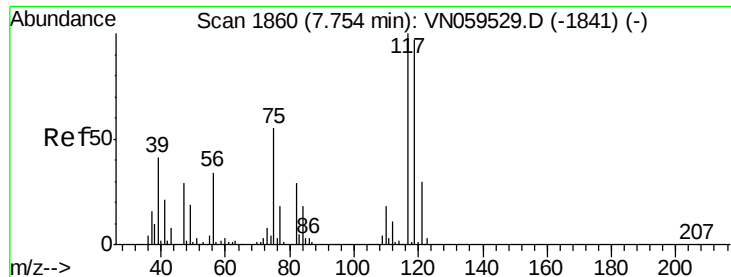
Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.6#

70 0.0 7.7 11.5#





#38

Carbon Tetrachloride

Concen: 6.403 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampled :

GROUNDWATER

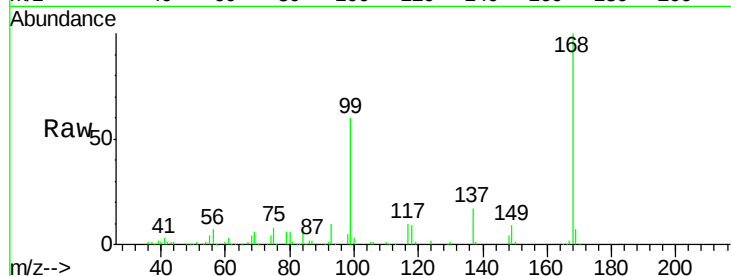
Tgt Ion:117 Resp: 25770

Ion Ratio Lower Upper

117 100

119 6.7 77.0 115.4#

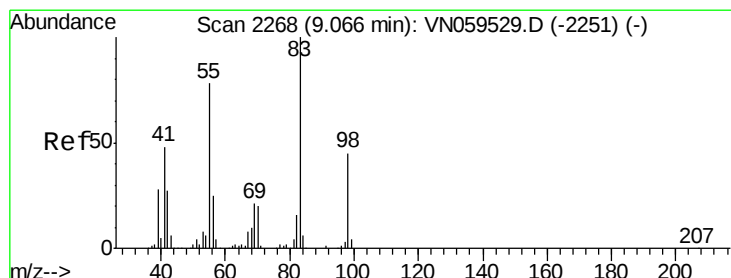
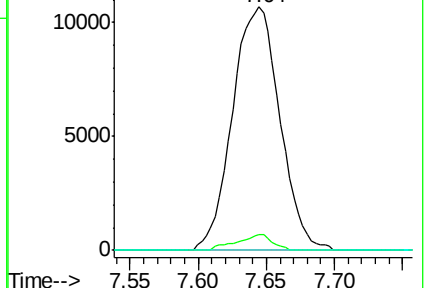
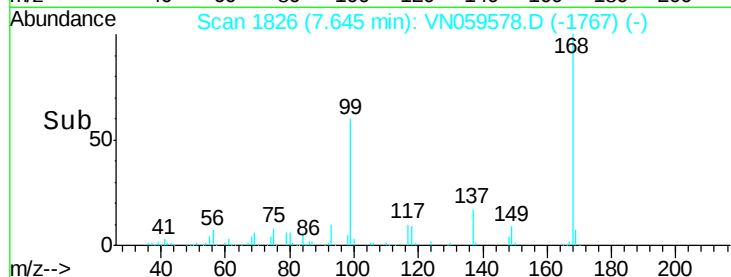
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.724 ug/l

RT: 9.06 min Scan# 2267

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

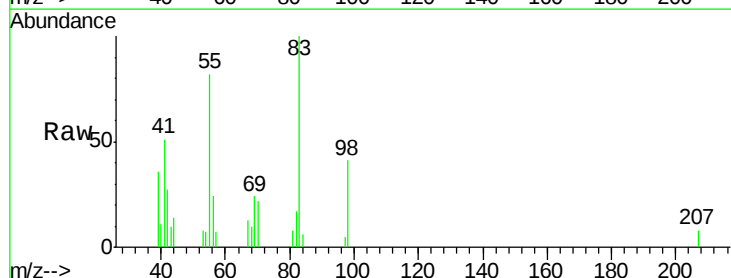
Tgt Ion: 83 Resp: 7895

Ion Ratio Lower Upper

83 100

55 81.9 62.7 94.1

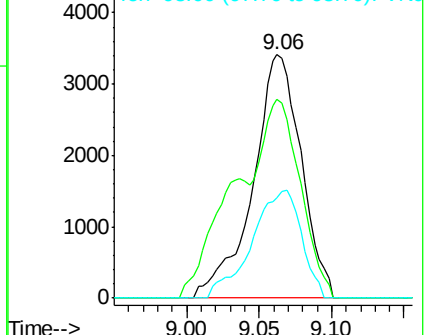
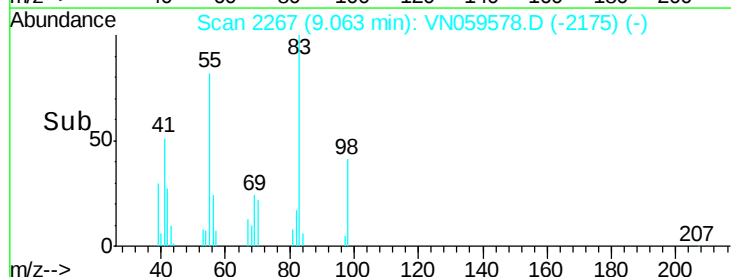
98 41.1 35.7 53.5

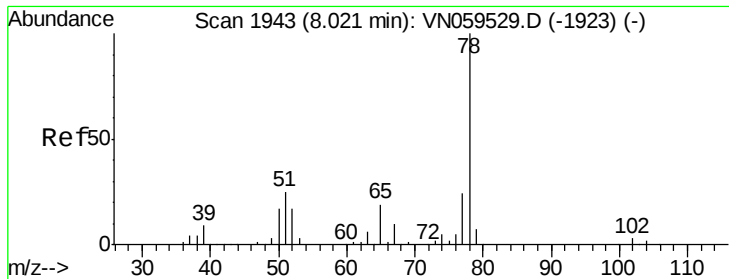


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 1.059 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

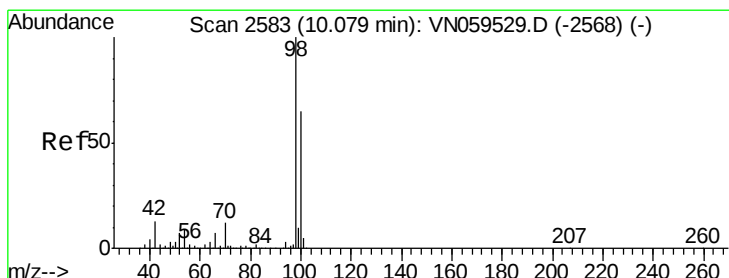
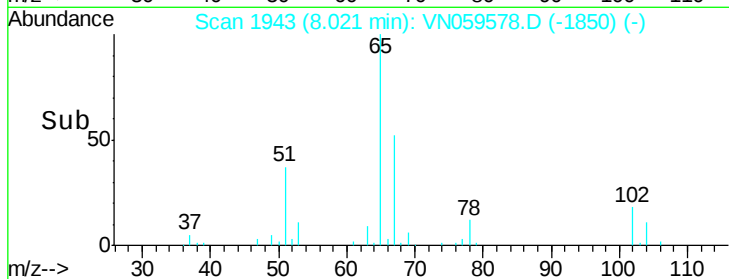
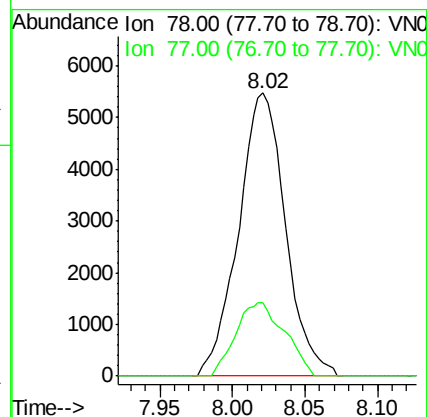
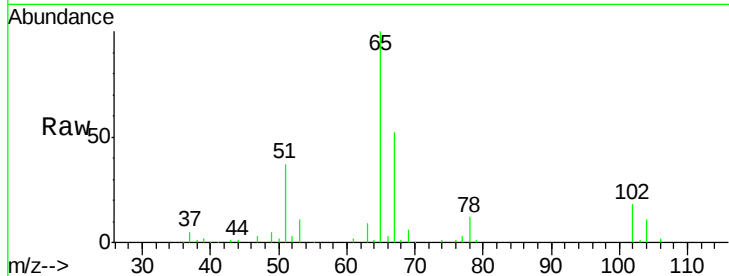
GROUNDWATER

Tgt Ion: 78 Resp: 12356

Ion Ratio Lower Upper

78 100

77 25.9 18.8 28.2



#50

Toluene-d8

Concen: 50.212 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059578.D

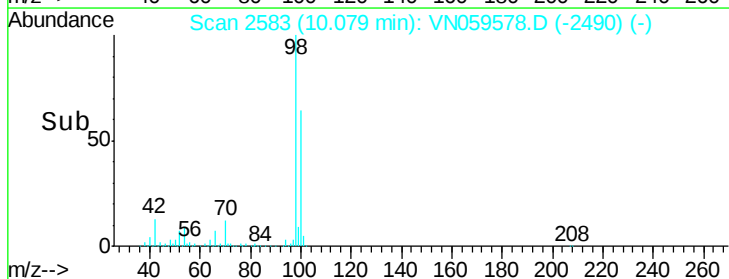
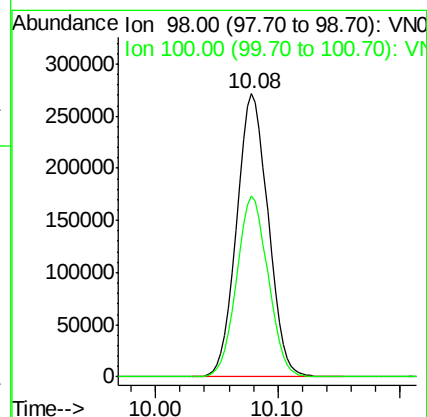
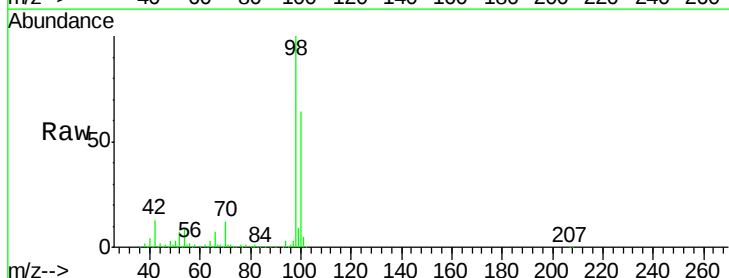
Acq: 12 Dec 2019 16:39

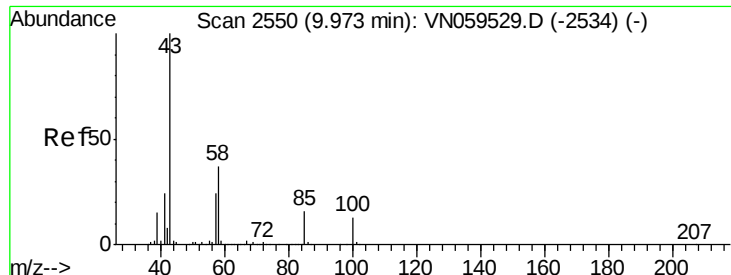
Tgt Ion: 98 Resp: 486806

Ion Ratio Lower Upper

98 100

100 63.9 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: Below Cal

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

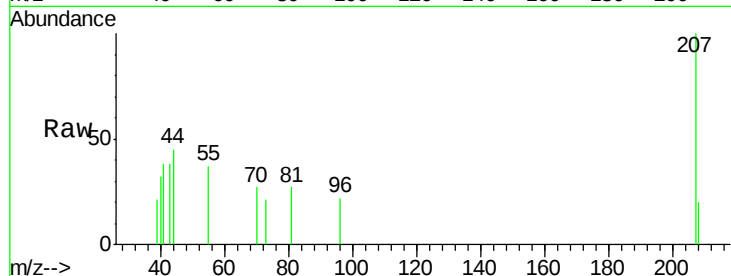
GROUNDWATER

Tgt Ion: 43 Resp: 555

Ion Ratio Lower Upper

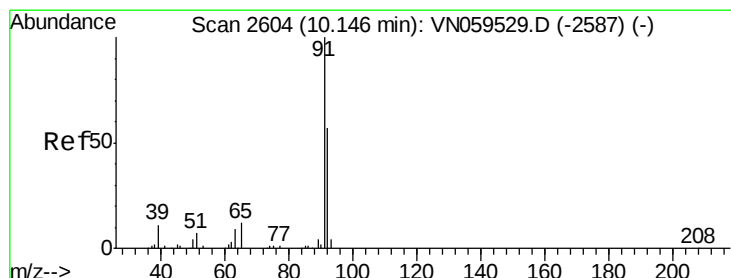
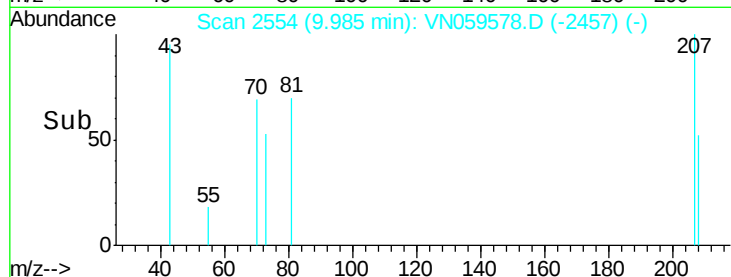
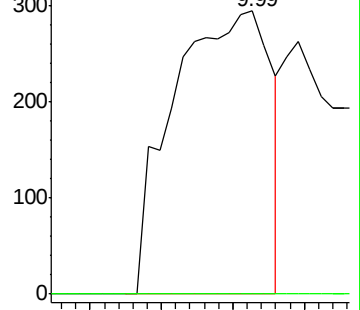
43 100

58 0.0 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.231 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059578.D

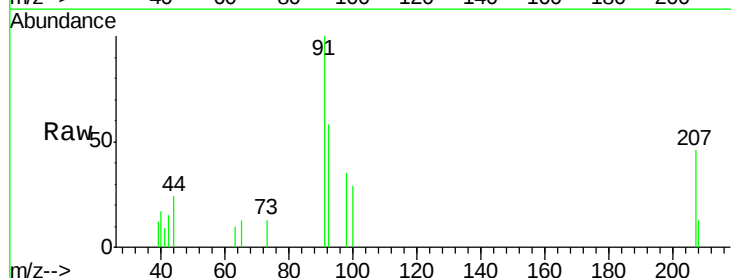
Acq: 12 Dec 2019 16:39

Tgt Ion: 92 Resp: 1608

Ion Ratio Lower Upper

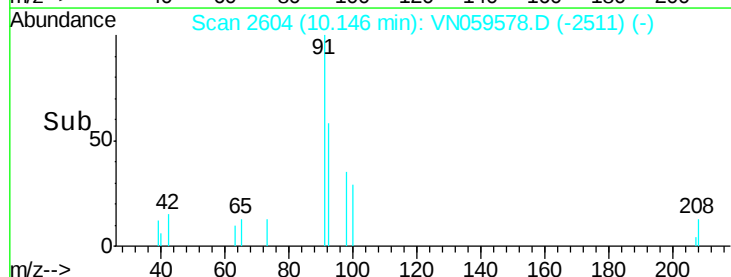
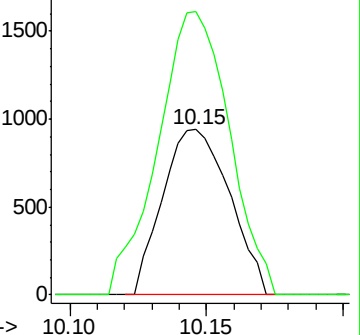
92 100

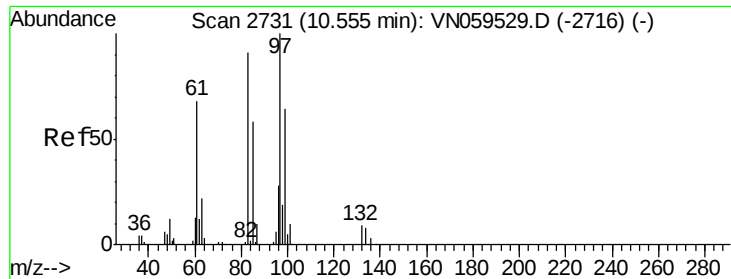
91 182.3 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#55

1,1,2-Trichloroethane

Concen: 0.354 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. -0.03 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampled :

GROUNDWATER

Tgt Ion: 97 Resp: 995

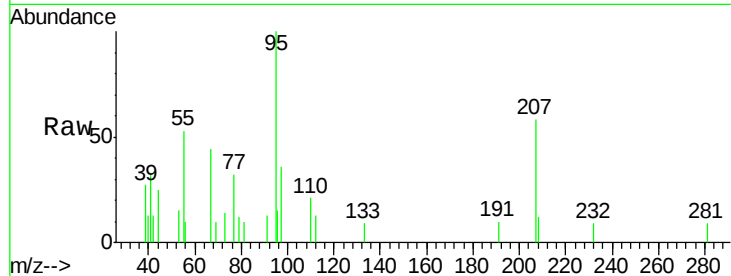
Ion Ratio Lower Upper

97 100

83 0.0 72.9 109.3#

85 0.0 46.1 69.1#

99 0.0 50.8 76.2#

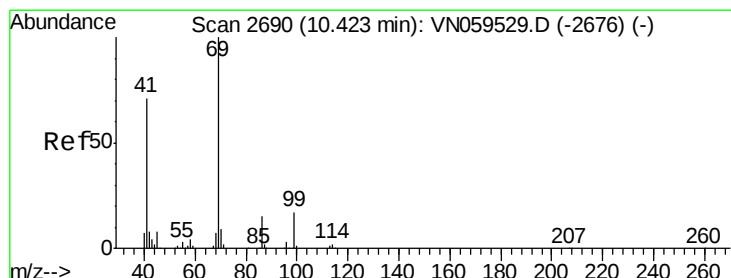
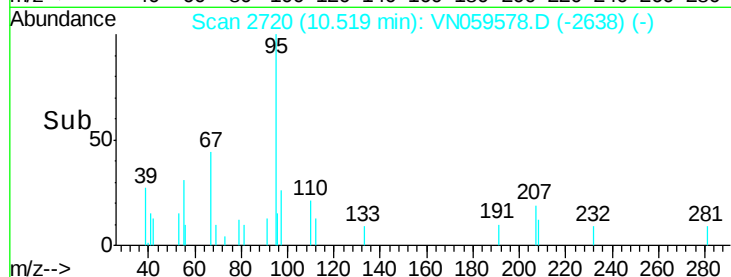
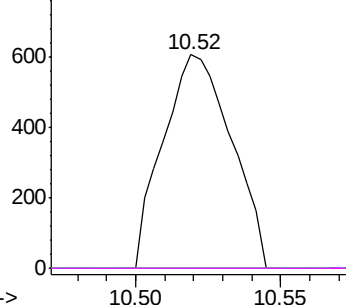


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 2.160 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.09 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

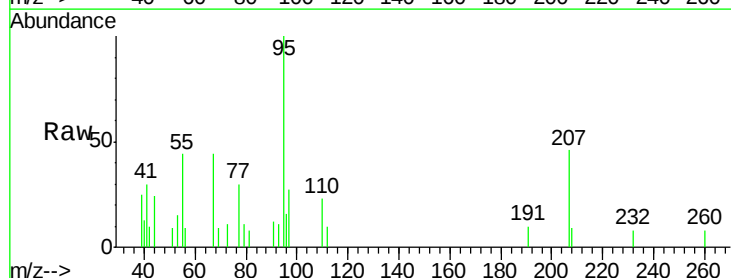
Tgt Ion: 69 Resp: 165

Ion Ratio Lower Upper

69 100

41 969.1 57.7 86.5#

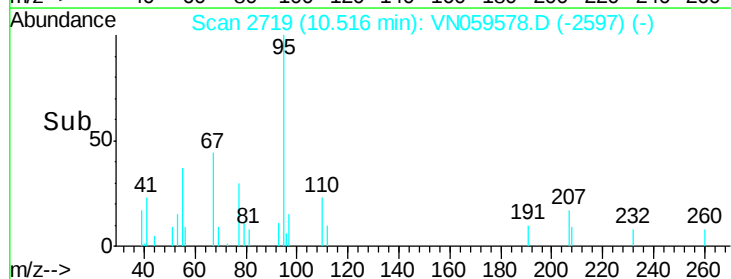
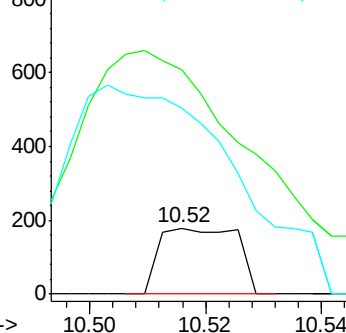
39 680.6 34.2 51.2#

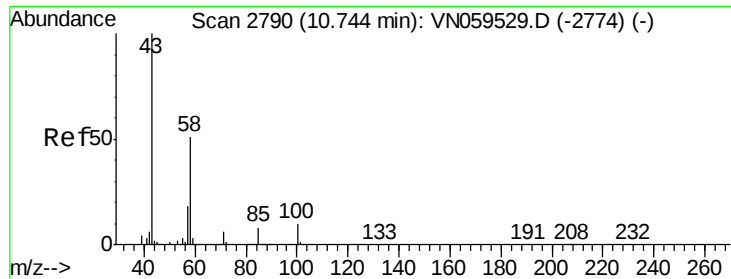


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

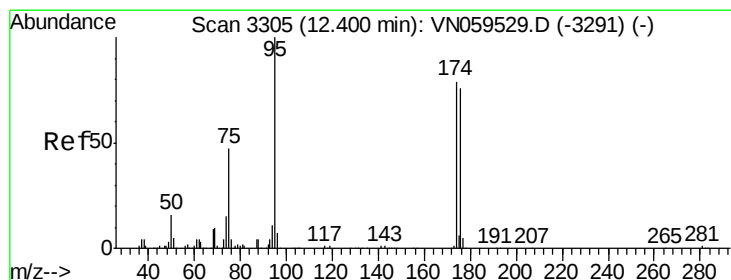
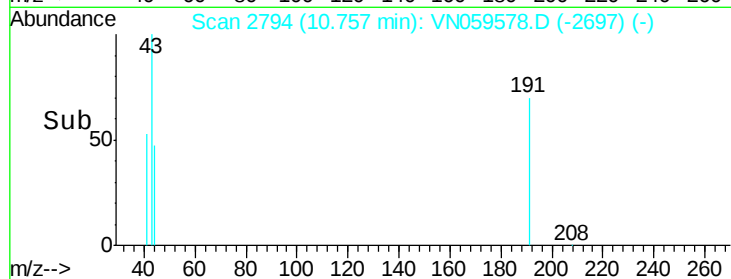
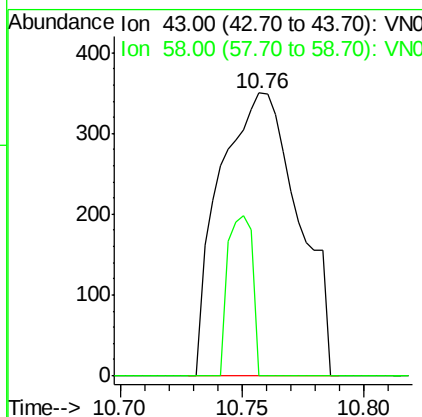
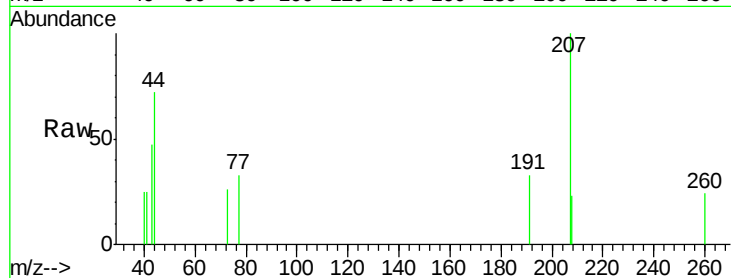




#59
2-Hexanone
Concen: 2.440 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

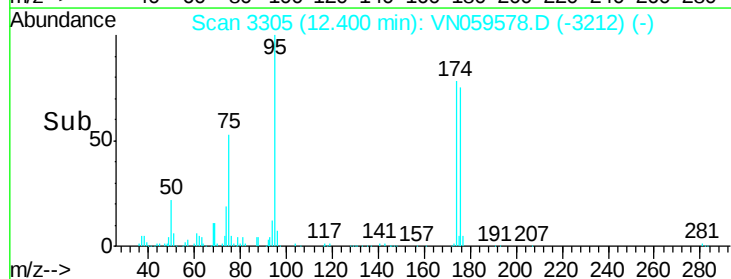
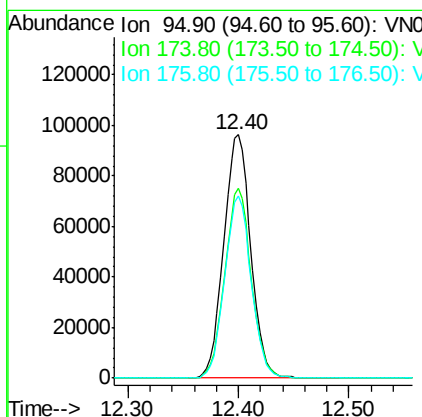
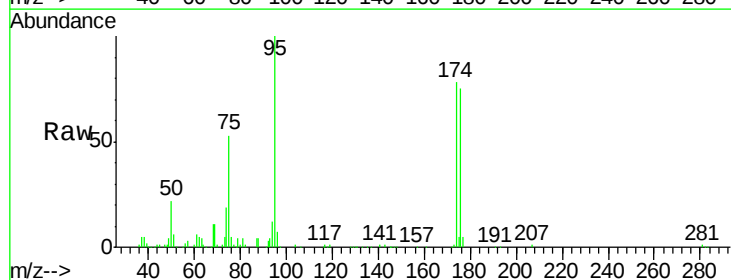
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

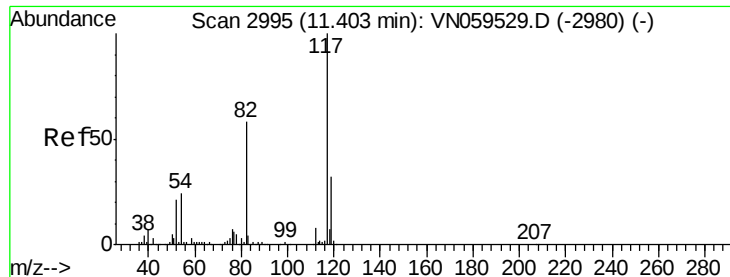
Tgt Ion: 43 Resp: 779
Ion Ratio Lower Upper
43 100
58 18.2 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 45.528 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Tgt Ion: 95 Resp: 163389
Ion Ratio Lower Upper
95 100
174 76.8 0.0 158.0
176 73.6 0.0 155.4

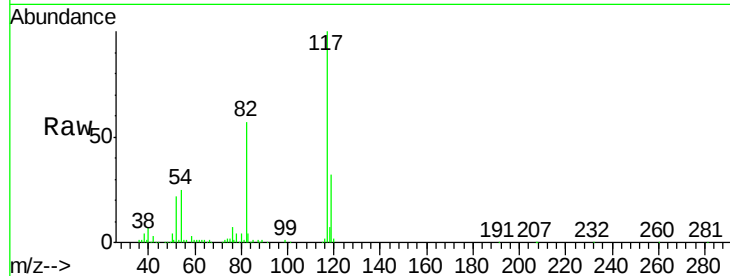




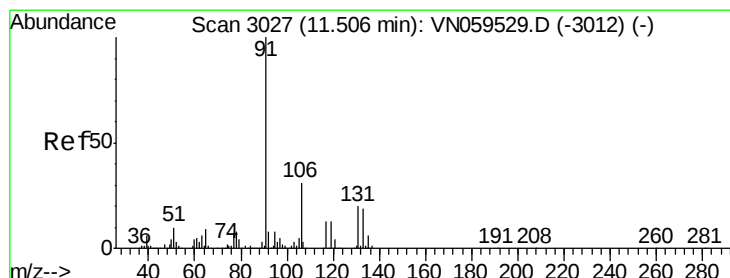
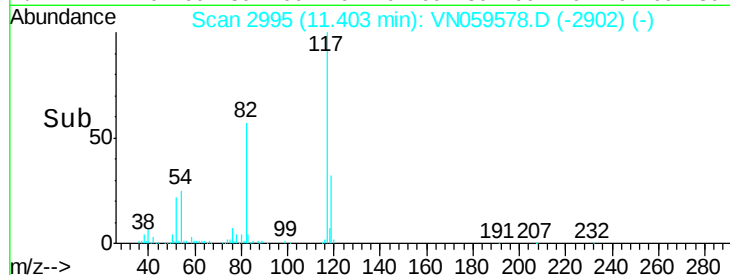
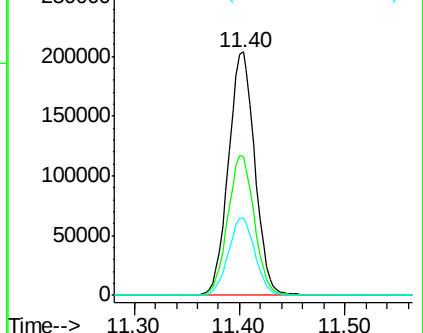
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Instrument :
MSVOA_N
ClientSampled :
GROUNDWATER

Tgt Ion: 117 Resp: 352493
Ion Ratio Lower Upper
117 100
82 57.0 46.5 69.7
119 31.8 25.2 37.8

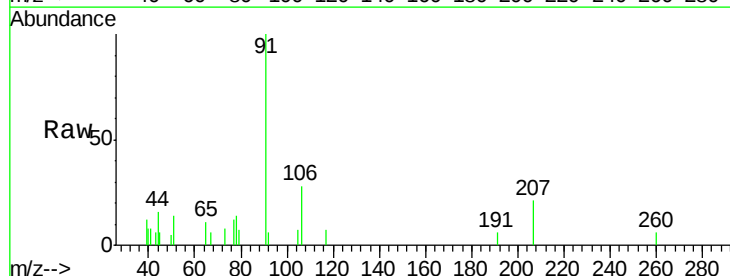


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

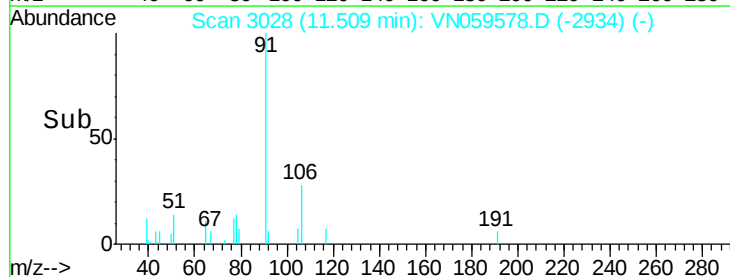
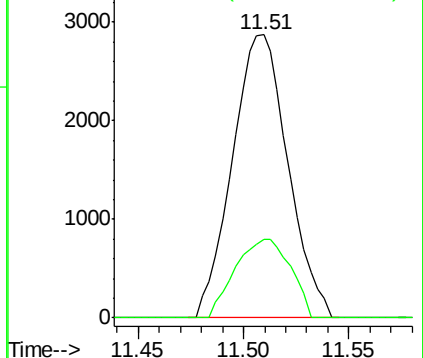


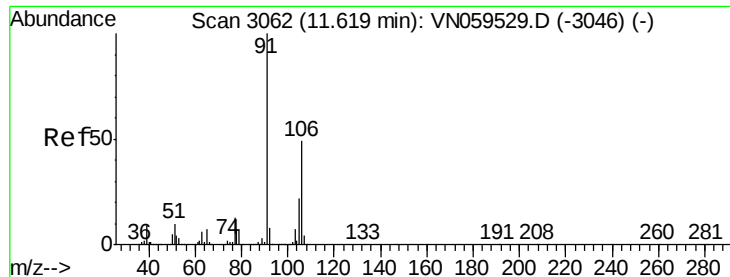
#67
Ethyl Benzene
Concen: 0.395 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Tgt Ion: 91 Resp: 5252
Ion Ratio Lower Upper
91 100
106 27.9 24.5 36.7



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

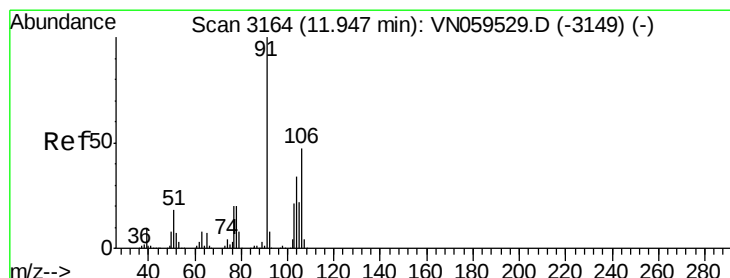
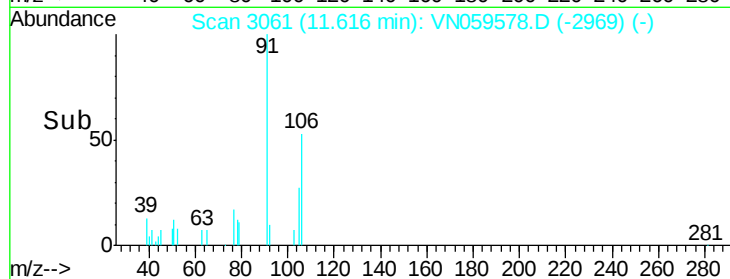
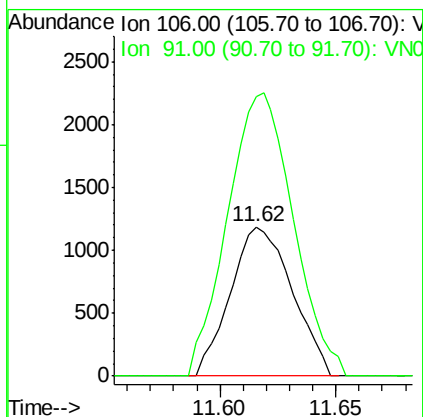
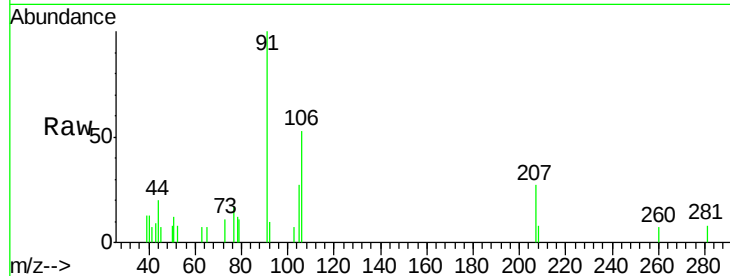




#68
m/p-Xylenes
Concen: 0.441 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

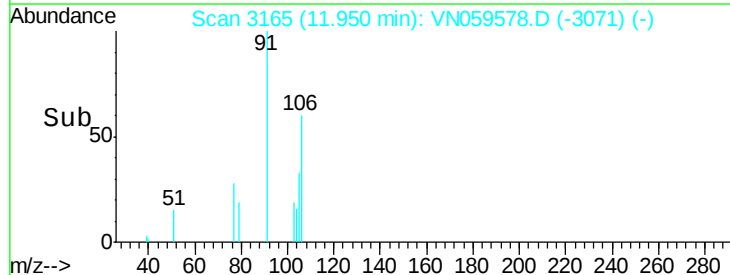
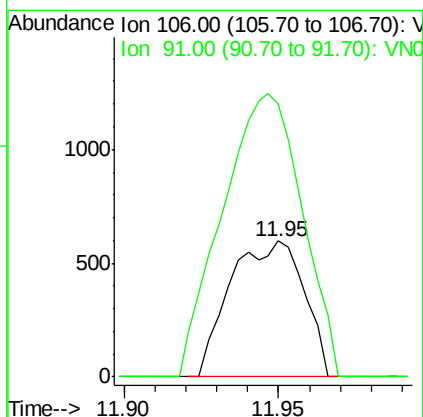
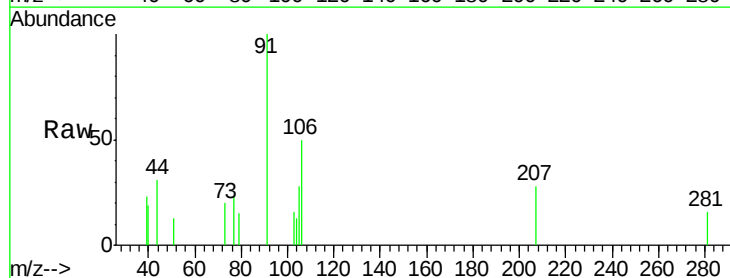
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

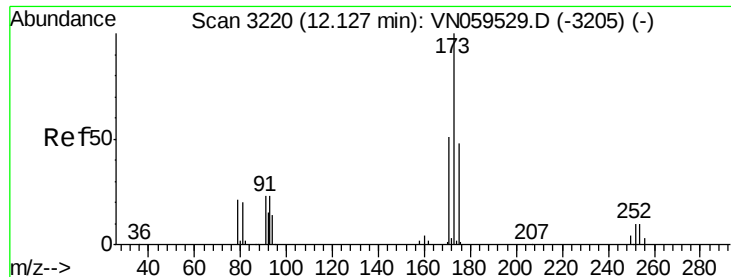
Tgt Ion:106 Resp: 2198
Ion Ratio Lower Upper
106 100
91 201.2 162.9 244.3



#69
o-Xylene
Concen: 0.213 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Tgt Ion:106 Resp: 988
Ion Ratio Lower Upper
106 100
91 225.4 106.7 319.9





#71

Bromoform

Concen: 0.382 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

GROUNDWATER

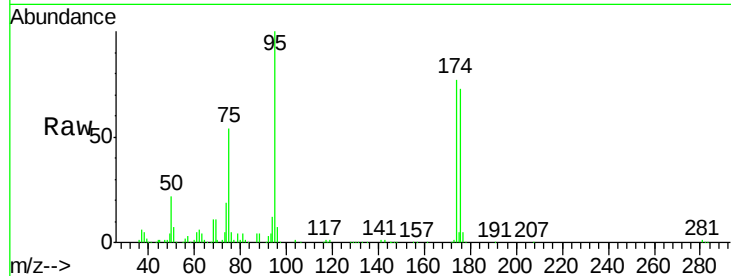
Tgt Ion:173 Resp: 829

Ion Ratio Lower Upper

173 100

175 995.4 24.1 72.4#

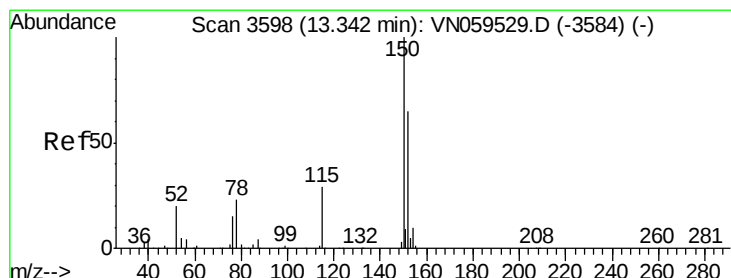
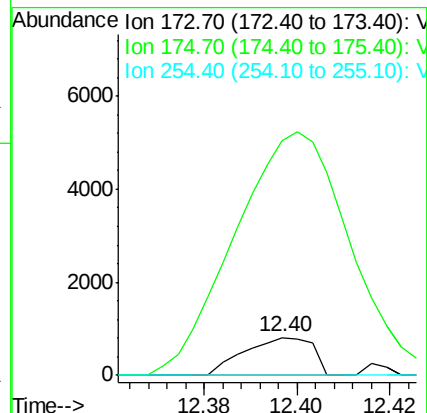
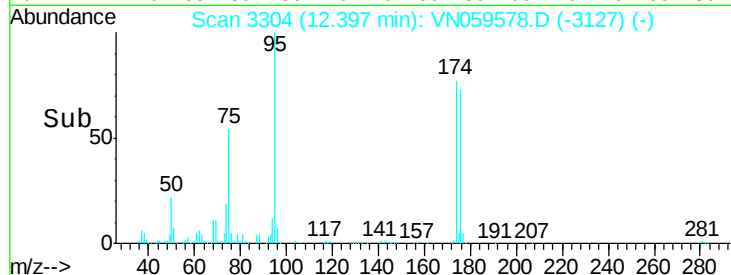
254 0.0 0.0 0.0



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: VN059578.D

Acq: 12 Dec 2019 16:39

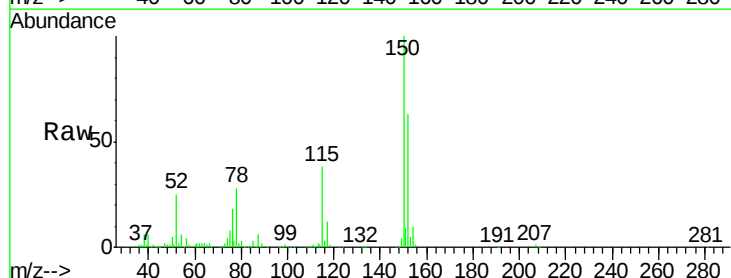
Tgt Ion:152 Resp: 145627

Ion Ratio Lower Upper

152 100

115 60.8 29.4 88.2

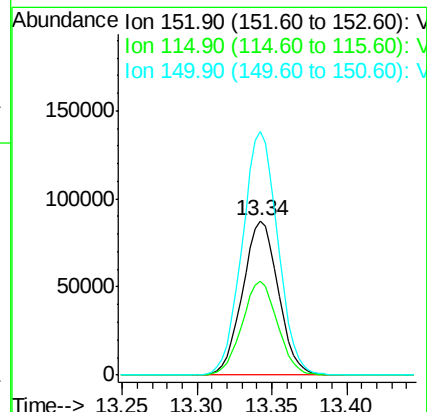
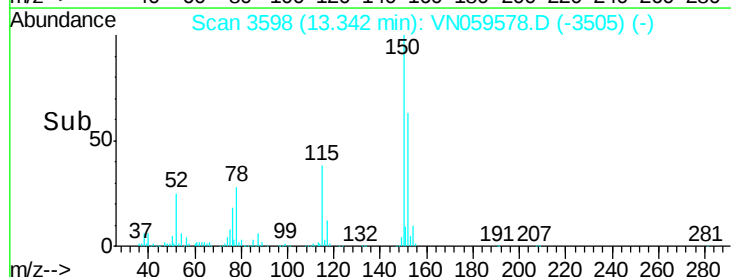
150 157.5 0.0 342.4

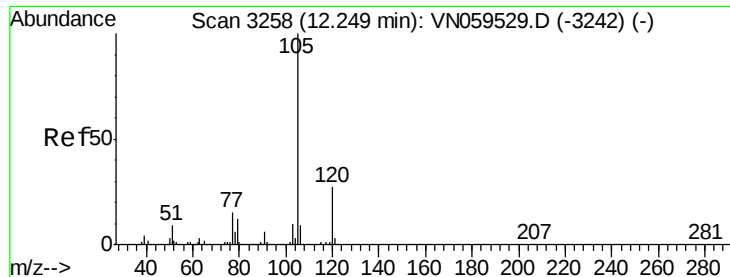


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.039 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

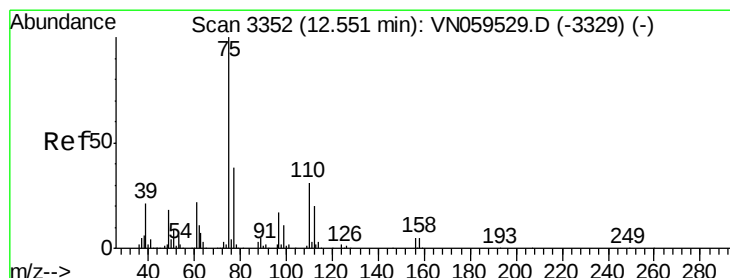
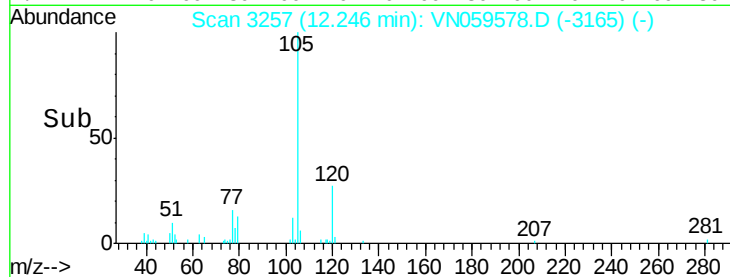
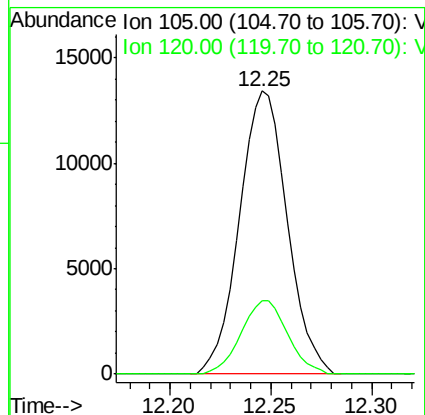
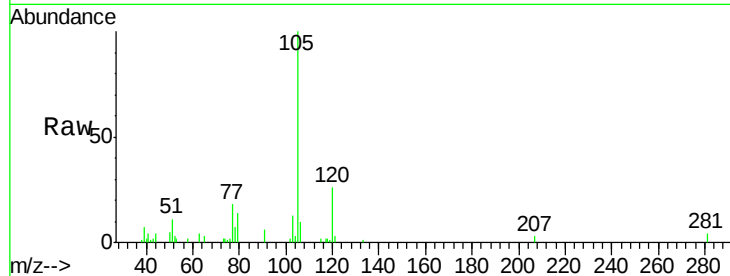
GROUNDWATER

Tgt Ion: 105 Resp: 22271

Ion Ratio Lower Upper

105 100

120 25.3 13.2 39.5



#76

1,2,3-Trichloropropane

Concen: 23.448 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059578.D

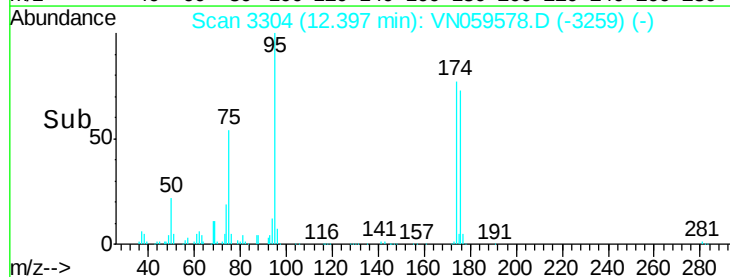
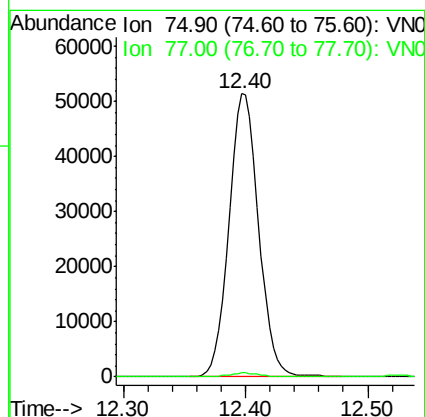
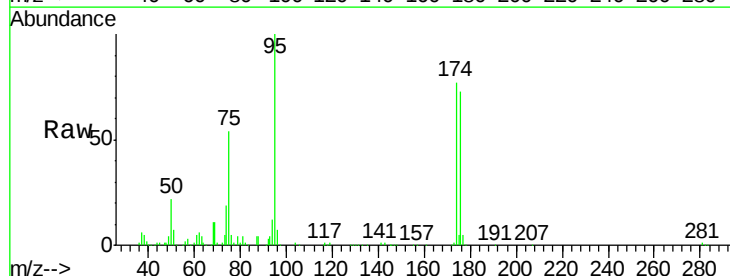
Acq: 12 Dec 2019 16:39

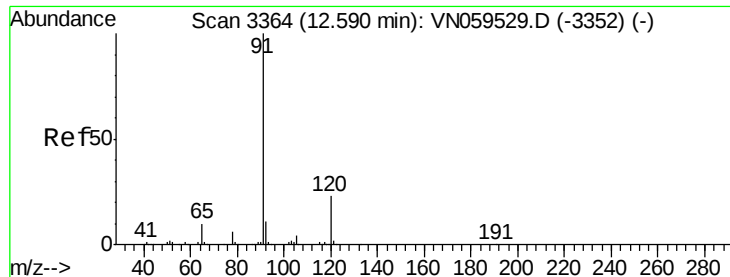
Tgt Ion: 75 Resp: 87321

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#78

n-propylbenzene

Concen: 3.385 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

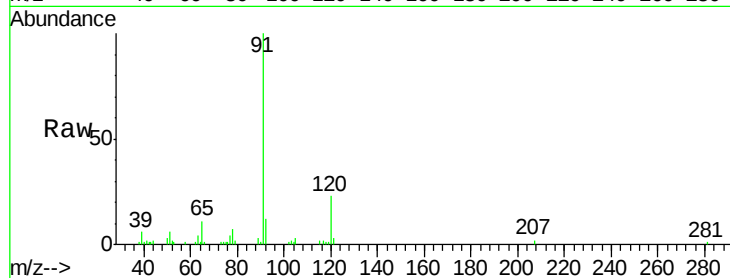
GROUNDWATER

Tgt Ion: 91 Resp: 45439

Ion Ratio Lower Upper

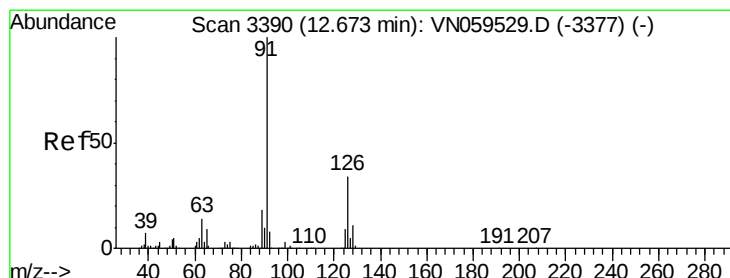
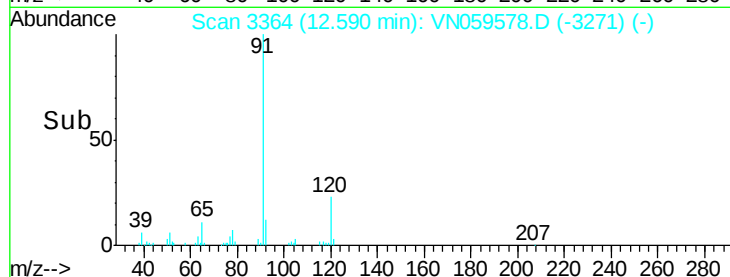
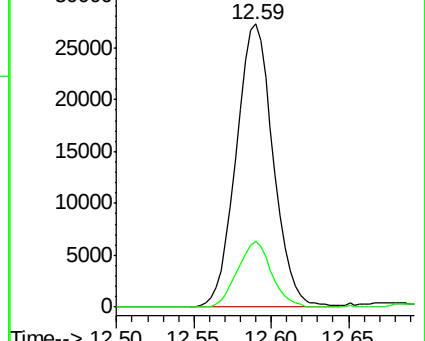
91 100

120 21.2 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 5.677 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN059578.D

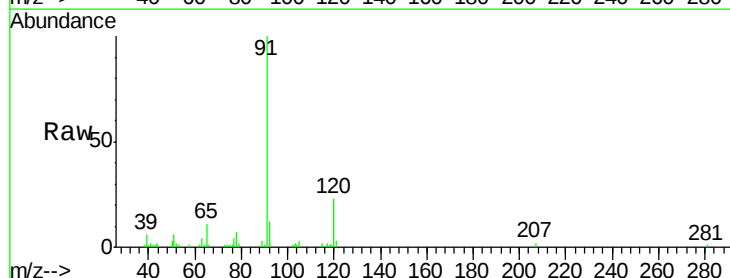
Acq: 12 Dec 2019 16:39

Tgt Ion: 91 Resp: 45439

Ion Ratio Lower Upper

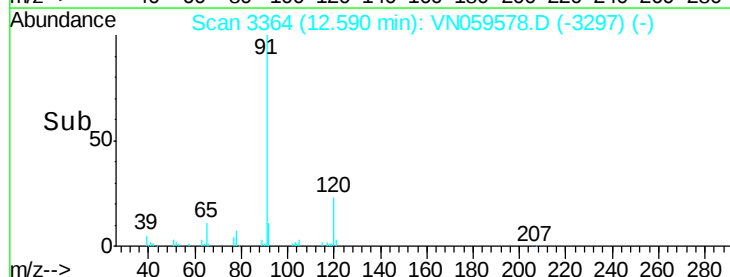
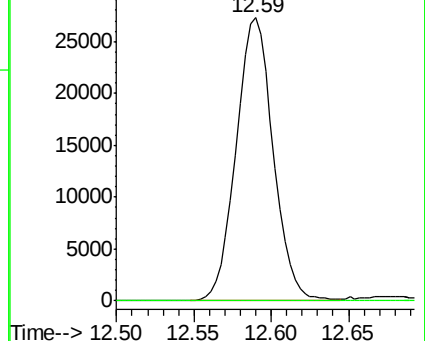
91 100

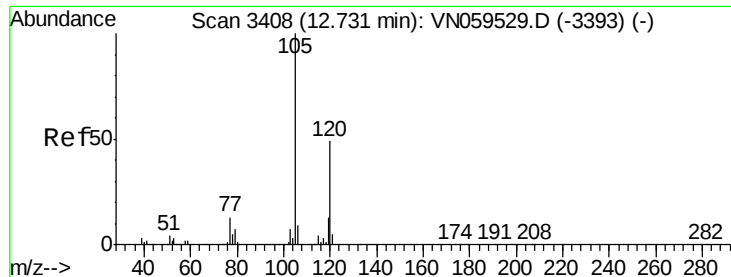
126 0.0 16.9 50.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 7.130 ug/l

RT: 12.89 min Scan# 3457

Delta R.T. 0.16 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

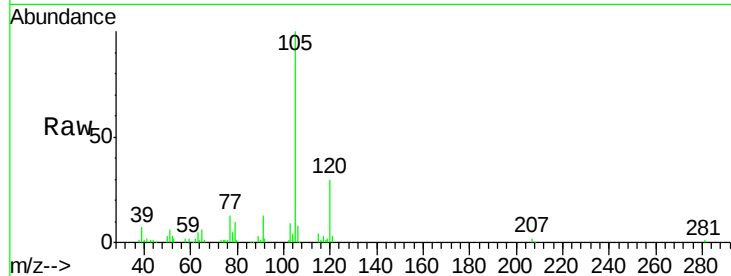
GROUNDWATER

Tgt Ion: 105 Resp: 66790

Ion Ratio Lower Upper

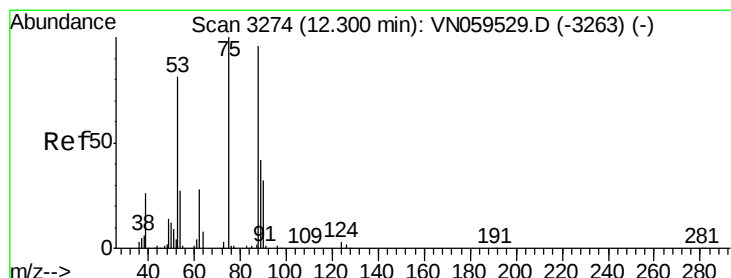
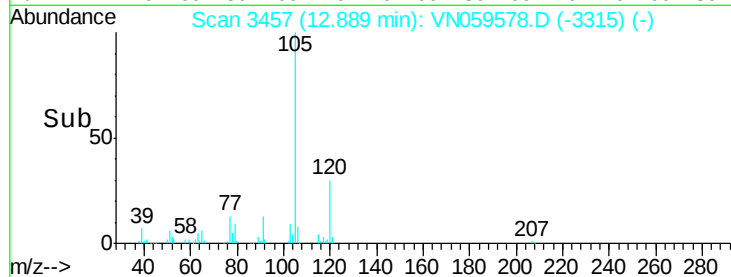
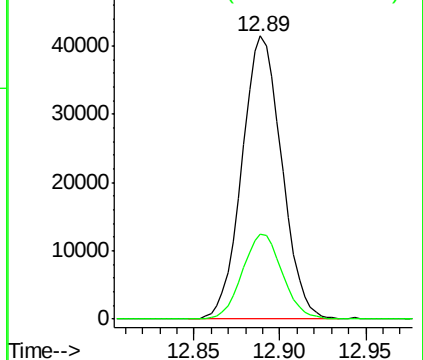
105 100

120 30.0 24.5 73.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 63.086 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

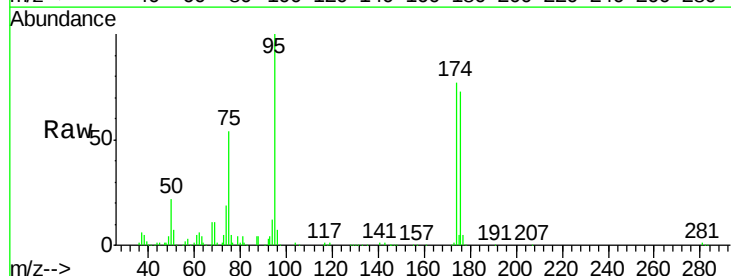
Tgt Ion: 75 Resp: 87321

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.6#

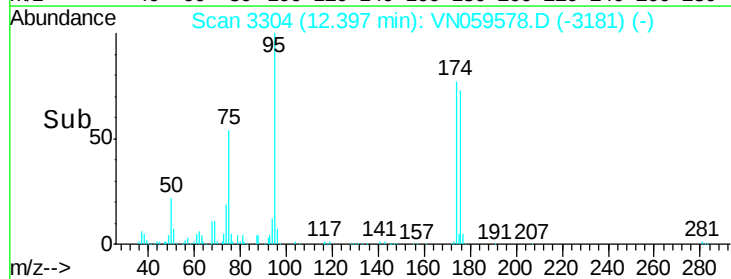
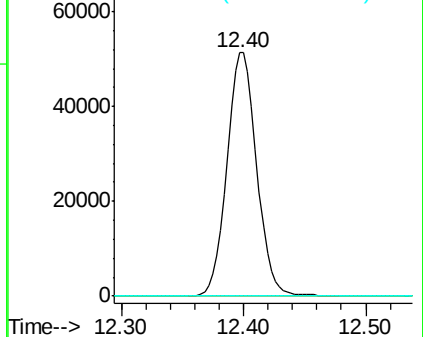
89 0.0 35.5 53.3#

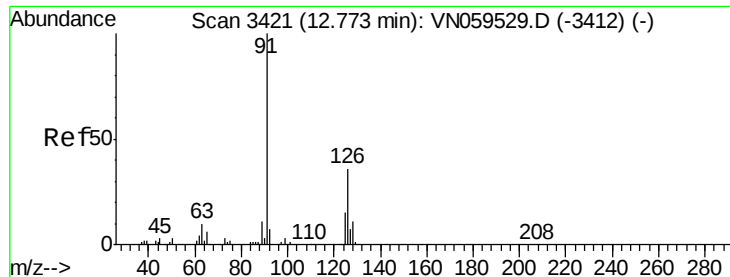


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 1.111 ug/l

RT: 12.89 min Scan# 3457

Delta R.T. 0.12 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

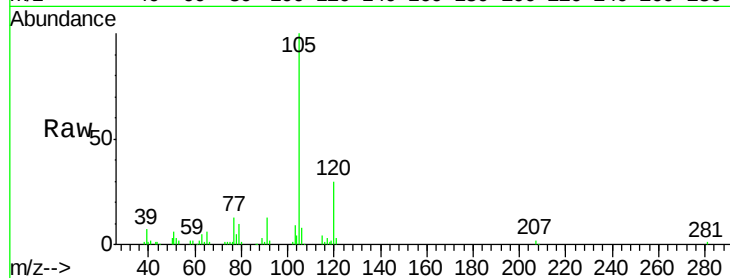
GROUNDWATER

Tgt Ion: 91 Resp: 9093

Ion Ratio Lower Upper

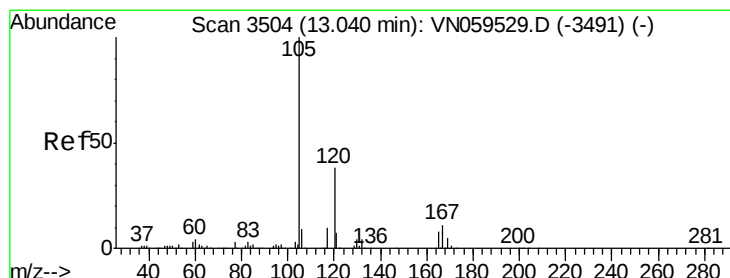
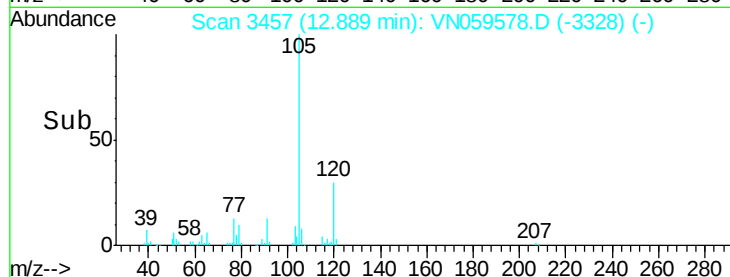
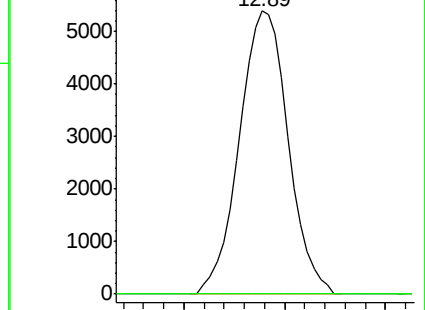
91 100

126 0.0 16.4 49.4#



Abundance Ion 91.00 (90.70 to 91.70): VN059529.D (-3412) (-)

Ion 125.90 (125.60 to 126.60): VN059529.D (-3412) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.375 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059578.D

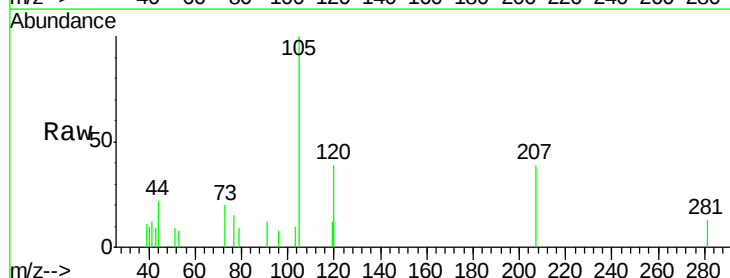
Acq: 12 Dec 2019 16:39

Tgt Ion: 105 Resp: 3468

Ion Ratio Lower Upper

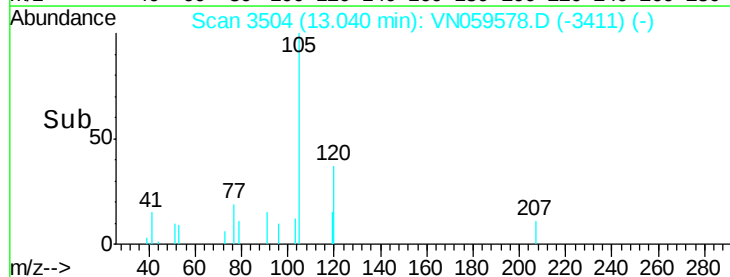
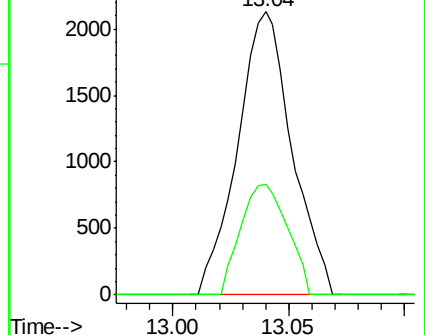
105 100

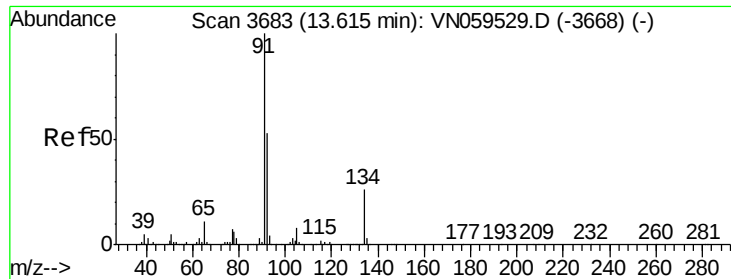
120 33.6 22.8 68.3



Abundance Ion 105.00 (104.70 to 105.70): VN059529.D (-3491) (-)

Ion 120.00 (119.70 to 120.70): VN059529.D (-3491) (-)

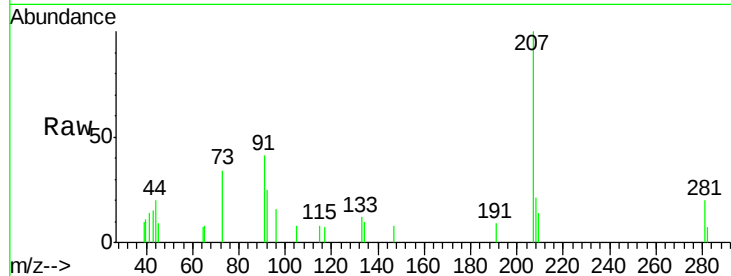




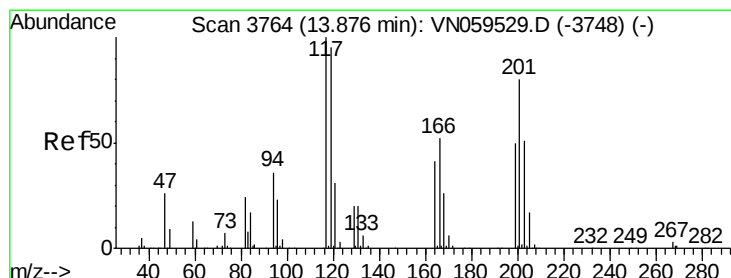
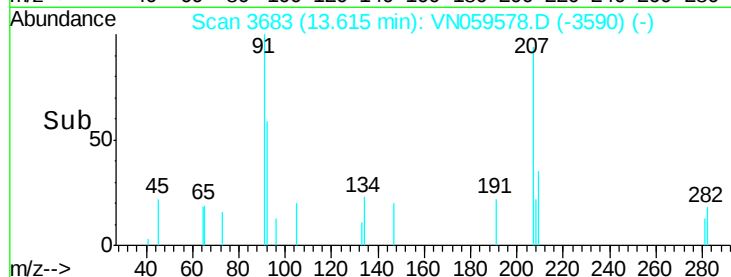
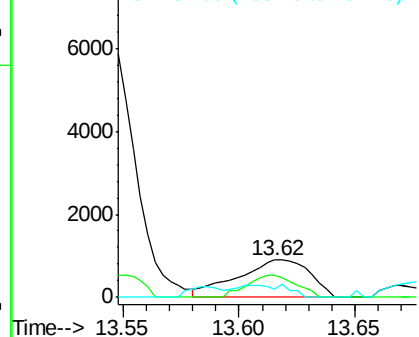
#89
n-Butylbenzene
Concen: 0.217 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

Tgt Ion: 91 Resp: 1958
Ion Ratio Lower Upper
91 100
92 39.4 26.3 78.9
134 23.3 12.8 38.4

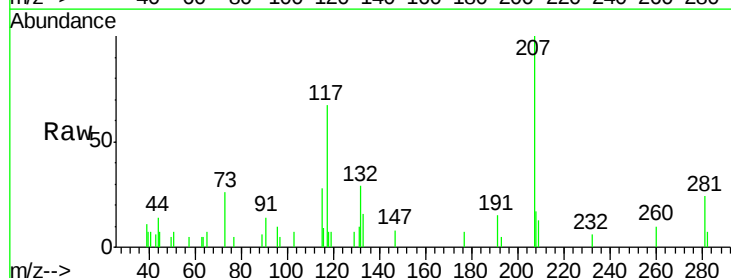


Abundance Ion 91.00 (90.70 to 91.70): VN059529.D (-3668) (-)
Ion 92.00 (91.70 to 92.70): VN059529.D (-3668) (-)
Ion 134.00 (133.70 to 134.70): VN059529.D (-3668) (-)

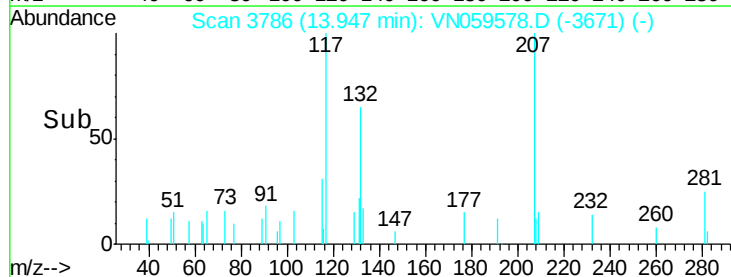
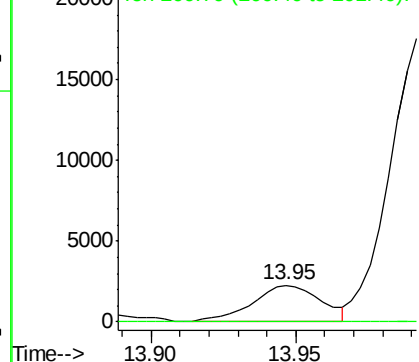


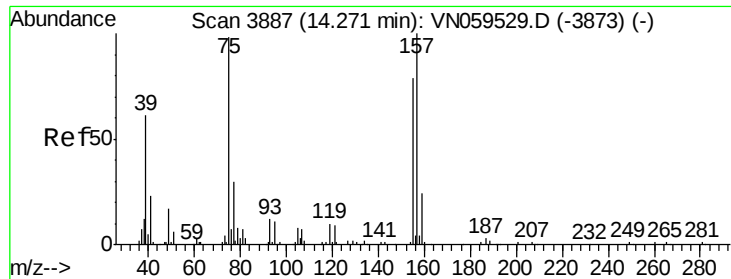
#90
Hexachloroethane
Concen: 2.154 ug/l
RT: 13.95 min Scan# 3786
Delta R.T. 0.07 min
Lab File: VN059578.D
Acq: 12 Dec 2019 16:39

Tgt Ion: 117 Resp: 3793
Ion Ratio Lower Upper
117 100
201 0.0 40.5 121.5#



Abundance Ion 116.80 (116.50 to 117.50): VN059529.D (-3748) (-)
Ion 200.70 (200.40 to 201.40): VN059529.D (-3748) (-)

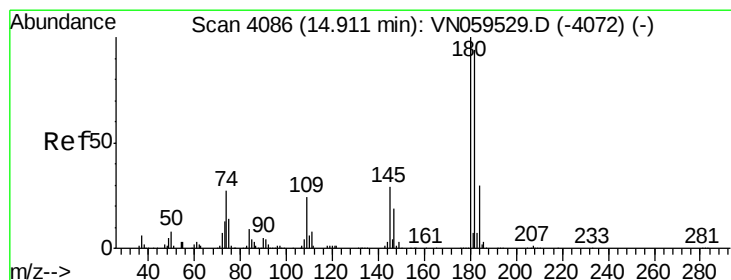
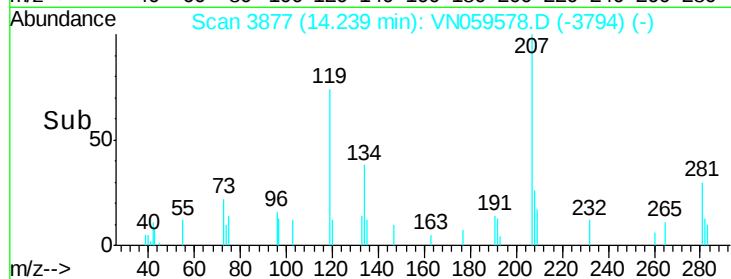
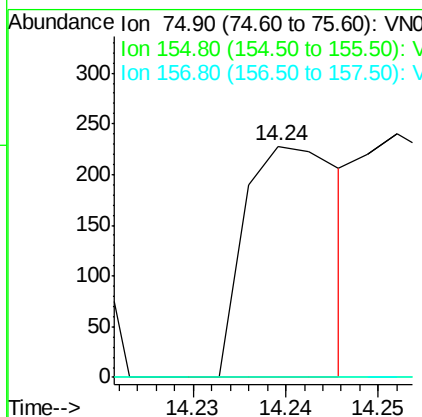
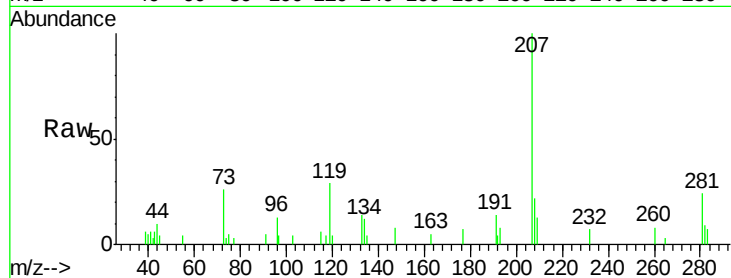




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.264 ug/l
 RT: 14.24 min Scan# 3877
 Delta R.T. -0.03 min
 Lab File: VN059578.D
 Acq: 12 Dec 2019 16:39

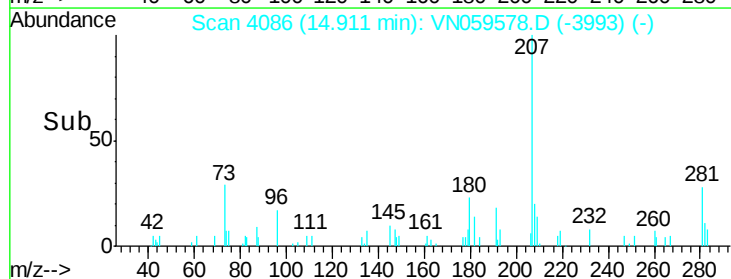
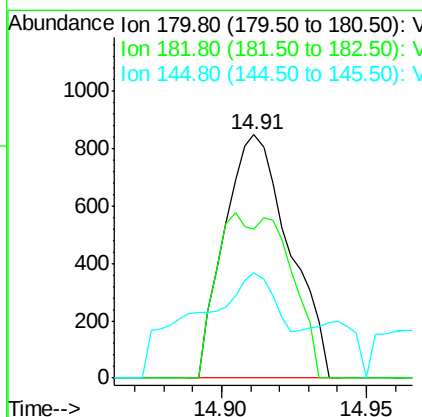
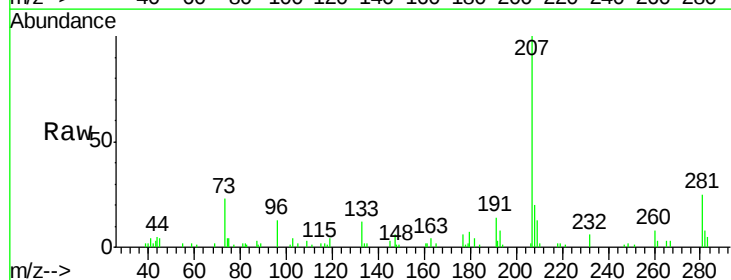
Instrument :
 MSVOA_N
 ClientSampleId :
 GROUNDWATER

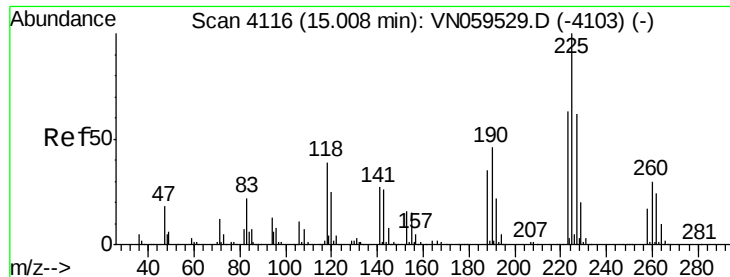
Tgt Ion: 75 Resp: 163
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.4 121.1#
 157 0.0 51.1 153.3#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.404 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN059578.D
 Acq: 12 Dec 2019 16:39

Tgt Ion: 180 Resp: 1312
 Ion Ratio Lower Upper
 180 100
 182 40.7 47.3 142.0#
 145 59.8 14.9 44.7#





#94

Hexachlorobutadiene

Concen: 0.266 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

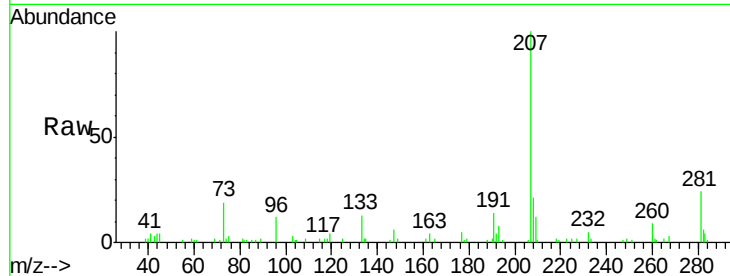
Instrument :

MSVOA_N

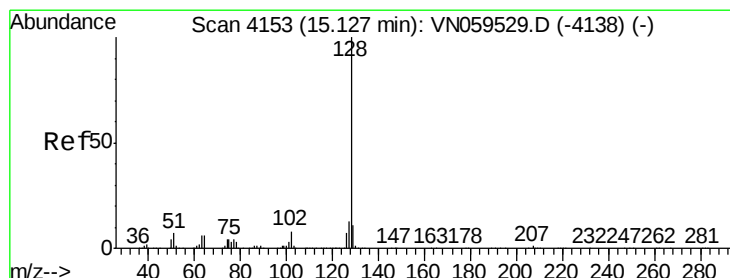
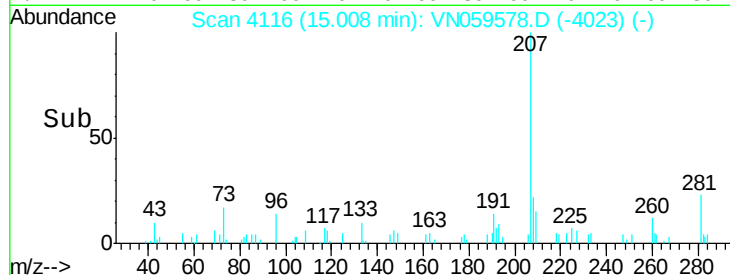
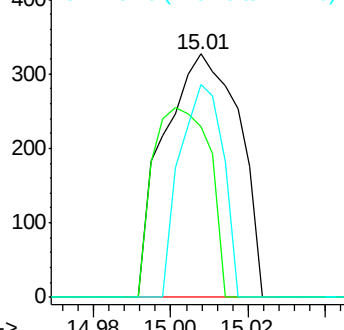
ClientSampleId :

GROUNDWATER

Tgt Ion:	225	Resp:	442
Ion	Ratio	Lower	Upper
225	100		
223	58.6	31.3	93.9
227	50.0	31.6	95.0



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.088 ug/l

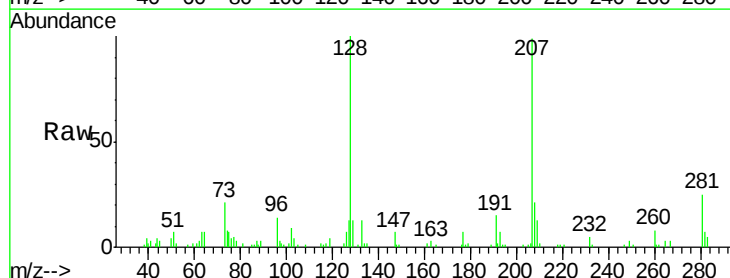
RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

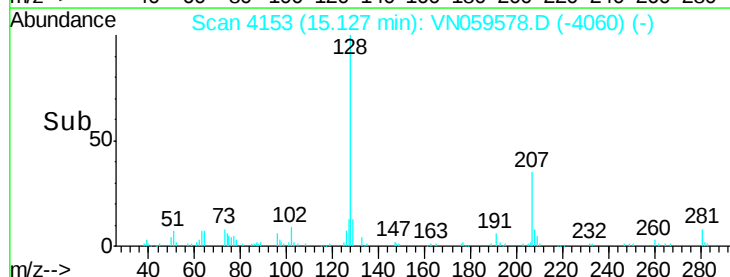
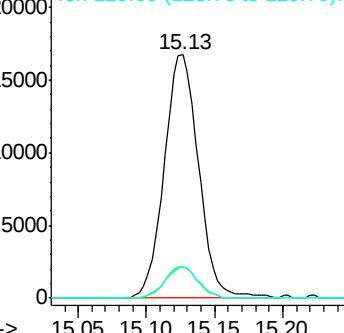
Lab File: VN059578.D

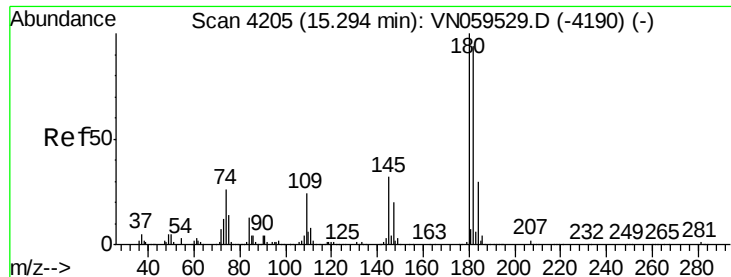
Acq: 12 Dec 2019 16:39

Tgt Ion:	128	Resp:	29345
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.4
129	12.2	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

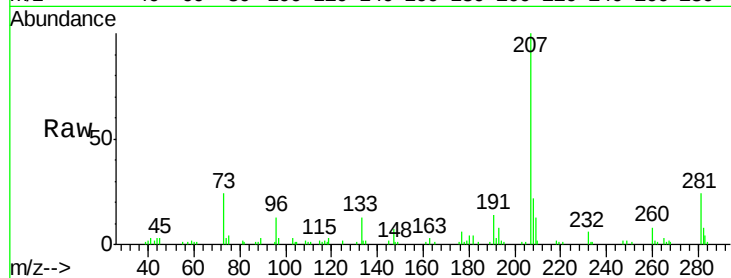




#96
 1,2,3-Trichlorobenzene
 Concen: 2.871 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.00 min
 Lab File: VN059578.D
 Acq: 12 Dec 2019 16:39

Instrument :
 MSVOA_N
 ClientSampleId :
 GROUNDWATER

Tgt Ion	Ratio	Lower	Upper
180	100		
182	83.5	47.1	141.4
145	24.1	15.8	47.4



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

