

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061920\
 Data File : VX016892.D
 Acq On : 19 Jun 2020 20:02
 Operator : JC/SP
 Sample : L3048-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GROUNDWATER

Quant Time: Jun 22 01:43:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 19 12:07:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	237616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	387603	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	397628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211521	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	140443	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
35) Dibromofluoromethane	5.47	113	120034	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
50) Toluene-d8	8.70	98	473162	47.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.40%	
62) 4-Bromofluorobenzene	11.12	95	202652	53.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.64%	

Target Compounds

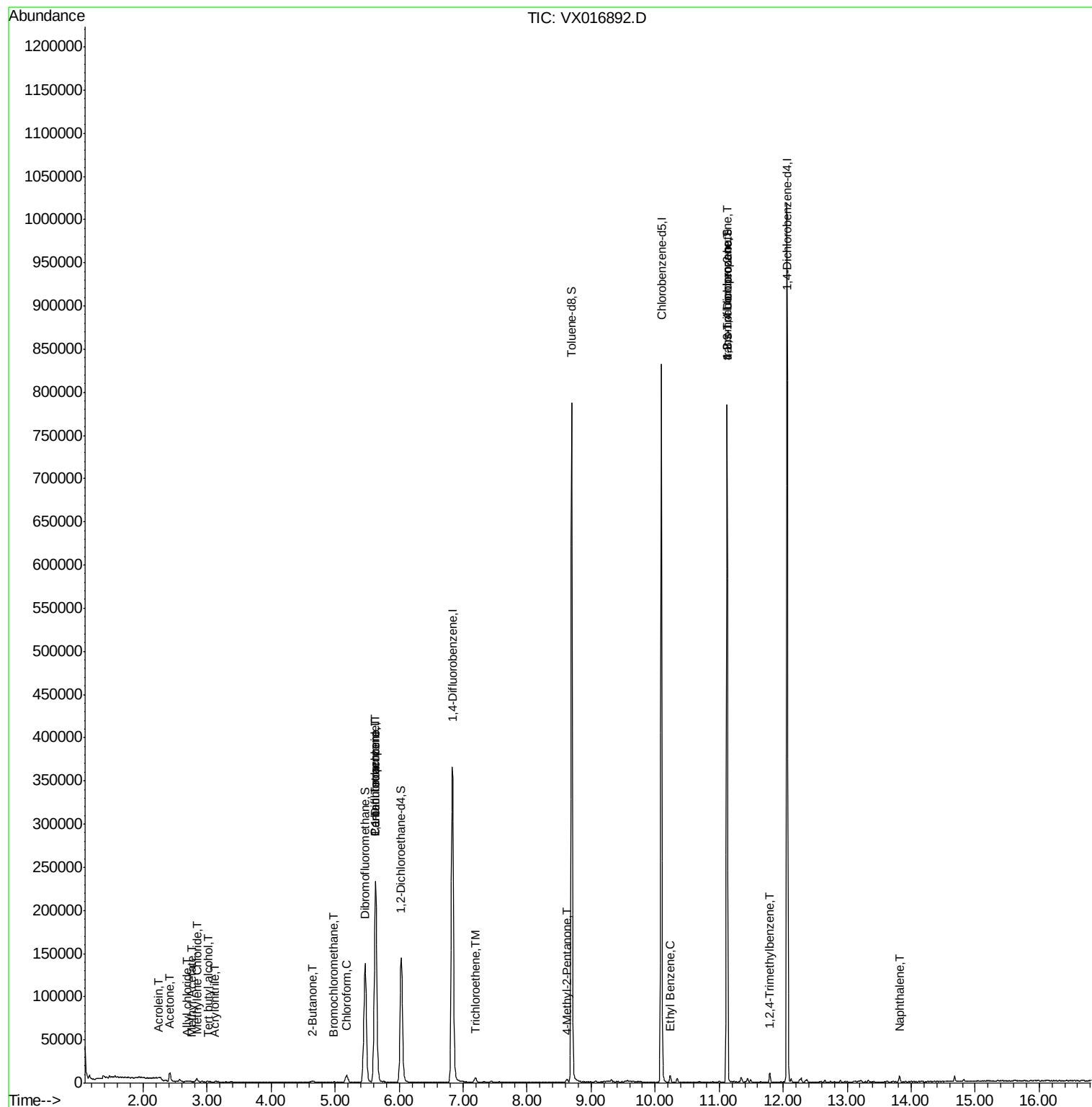
						Qvalue
11) Tert butyl alcohol	3.01	59	999	2.068	ug/l #	81
13) Acrolein	2.25	56	200	0.683	ug/l #	1
14) Allyl chloride	2.68	41	915	0.272	ug/l #	42
15) Acrylonitrile	3.11	53	321	0.290	ug/l #	89
16) Acetone	2.42	43	11263	10.857	ug/l	89
18) Methyl Acetate	2.75	43	733	0.278	ug/l #	69
20) Methylene Chloride	2.84	84	1857	0.746	ug/l	95
25) 2-Butanone	4.65	43	1926	1.349	ug/l	98
28) Bromochloromethane	4.98	49	420	0.252	ug/l #	87
30) Chloroform	5.18	83	10079	2.375	ug/l	98
36) 1,1-Dichloropropene	5.63	75	15462	4.320	ug/l #	49
38) Carbon Tetrachloride	5.63	117	22380	5.573	ug/l #	15
44) Trichloroethene	7.19	130	2080	0.632	ug/l	87
51) 4-Methyl-2-Pentanone	8.62	43	2360	0.711	ug/l	93
67) Ethyl Benzene	10.24	91	4675	0.344	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	96101	24.877	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	96101	60.920	ug/l #	14
84) 1,2,4-Trimethylbenzene	11.79	105	4693	0.388	ug/l	99
95) Naphthalene	13.82	128	4310	0.334	ug/l	97

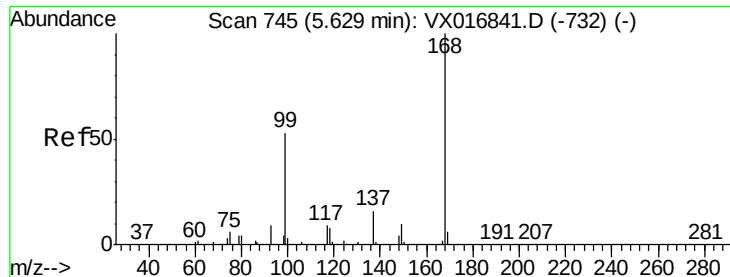
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

Instrument :

MSVOA_X

ClientSampleId :

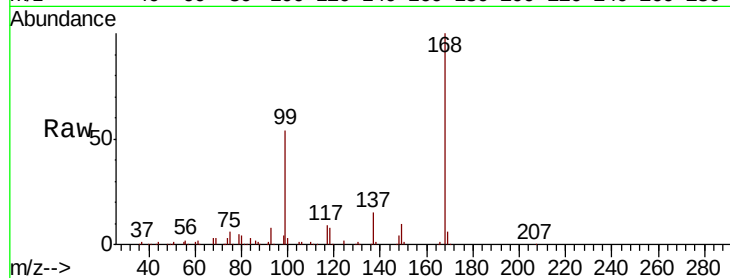
GROUNDWATER

Tot Ion:168 Resp: 237616

Ion Ratio Lower Upper

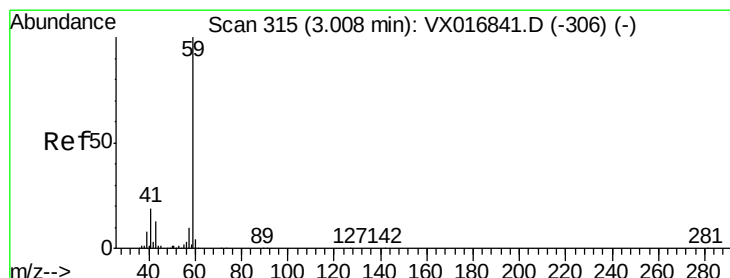
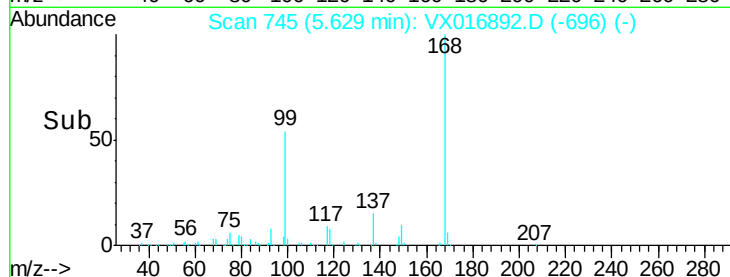
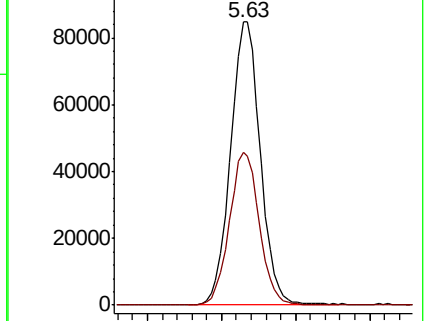
168 100

99 53.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 2.068 ug/l

RT: 3.01 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX016892.D

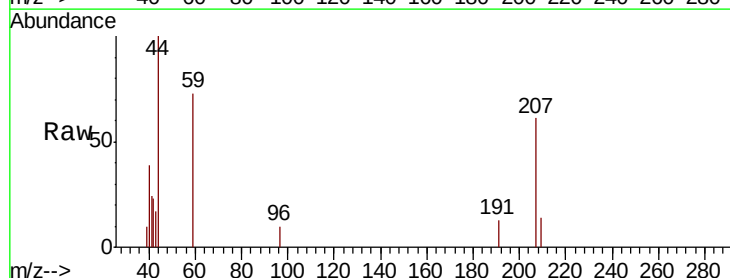
Acq: 19 Jun 2020 20:02

Tgt Ion: 59 Resp: 999

Ion Ratio Lower Upper

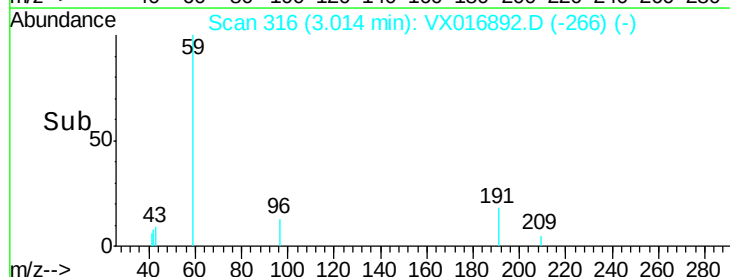
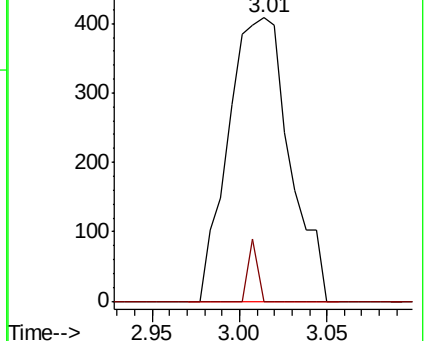
59 100

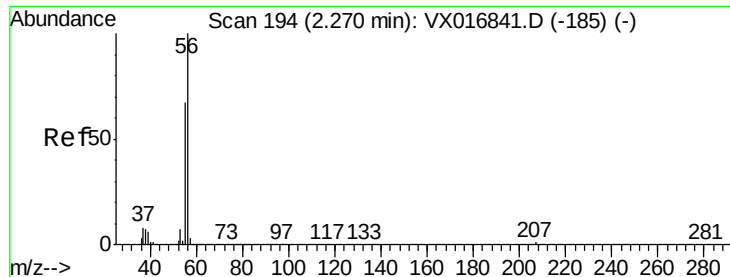
57 3.3 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.683 ug/l

RT: 2.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

Instrument :

MSVOA_X

ClientSampled :

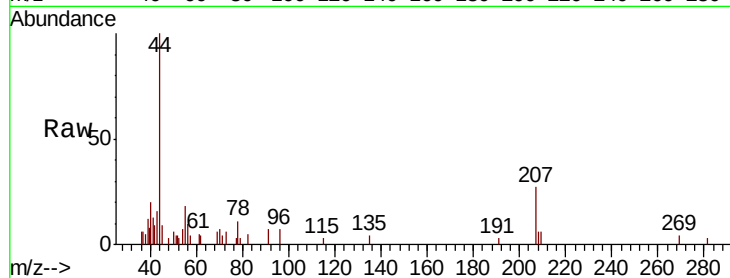
GROUNDWATER

Tot Ion: 56 Resp: 200

Ion Ratio Lower Upper

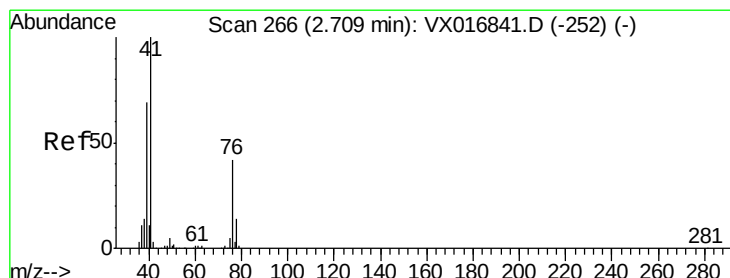
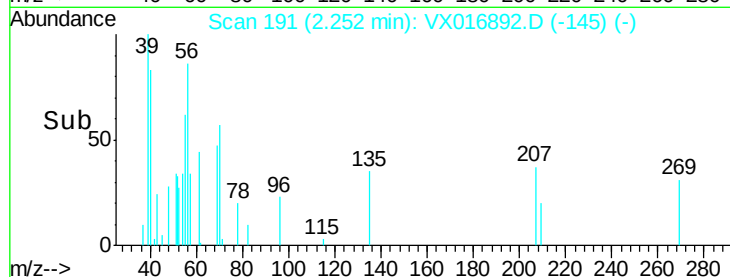
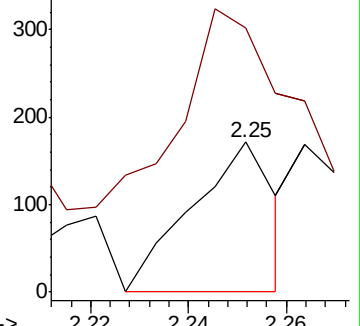
56 100

55 404.5 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 0.272 ug/l

RT: 2.68 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

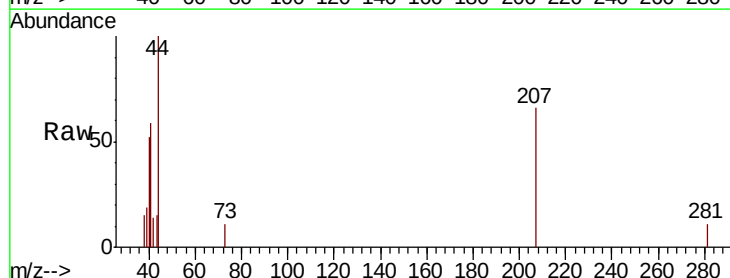
Tgt Ion: 41 Resp: 915

Ion Ratio Lower Upper

41 100

39 21.1 50.7 76.1#

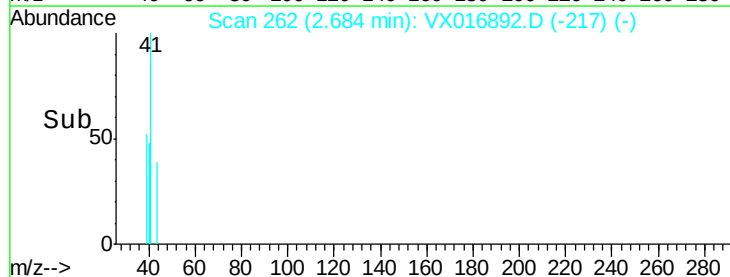
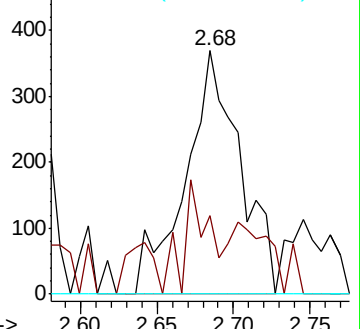
76 0.0 30.9 46.3#

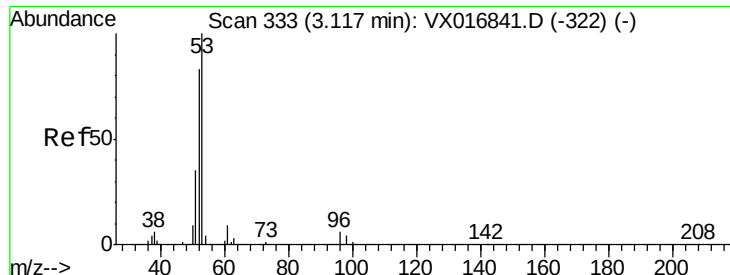


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#15

Acrylonitrile

Concen: 0.290 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

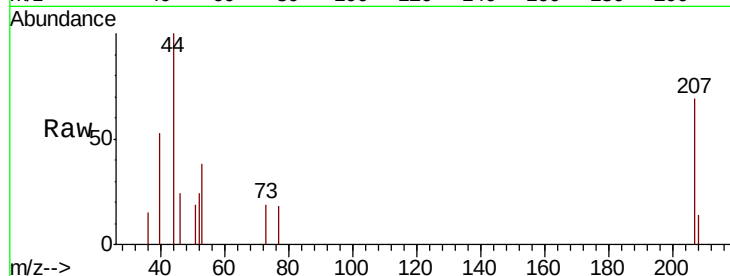
Tot Ion: 53 Resp: 321

Ion Ratio Lower Upper

53 100

52 87.2 66.2 99.2

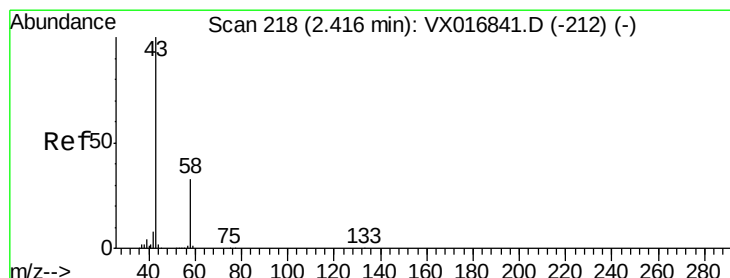
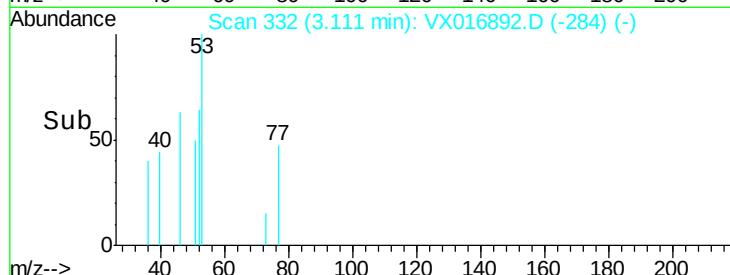
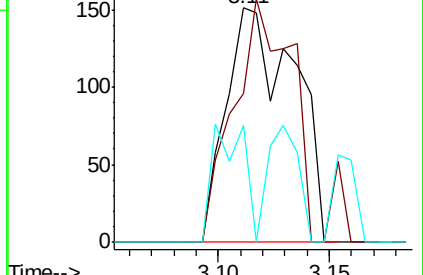
51 22.1 28.7 43.1#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 10.857 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016892.D

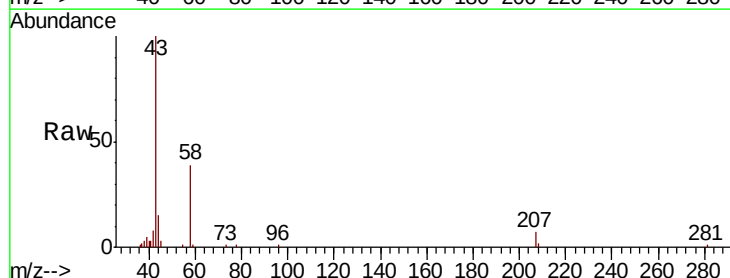
Acq: 19 Jun 2020 20:02

Tgt Ion: 43 Resp: 11263

Ion Ratio Lower Upper

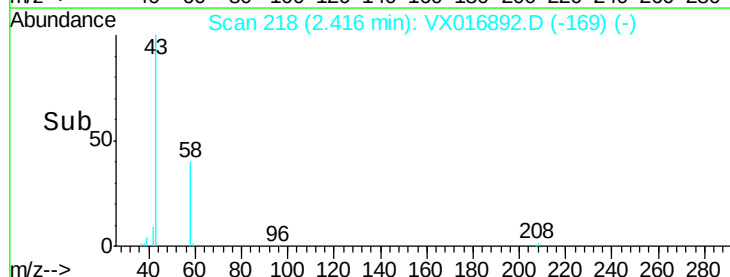
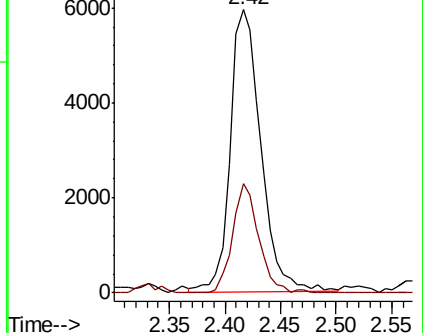
43 100

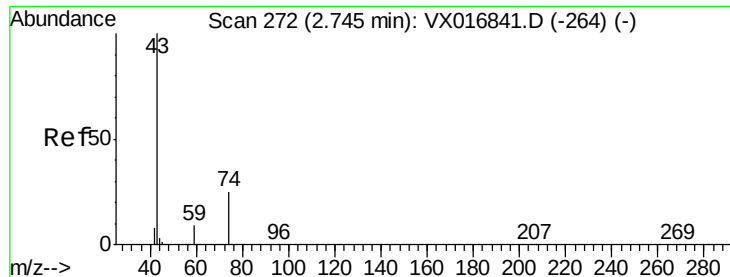
58 39.2 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

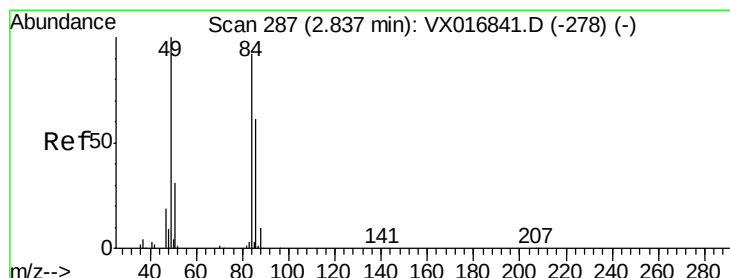
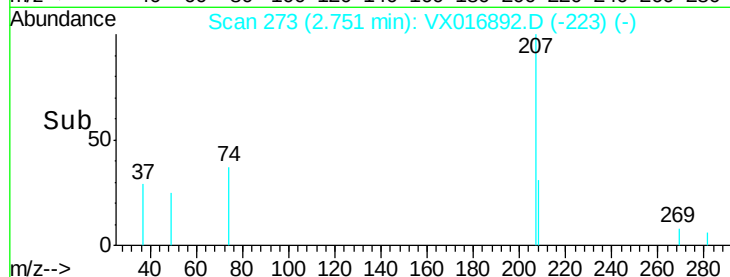
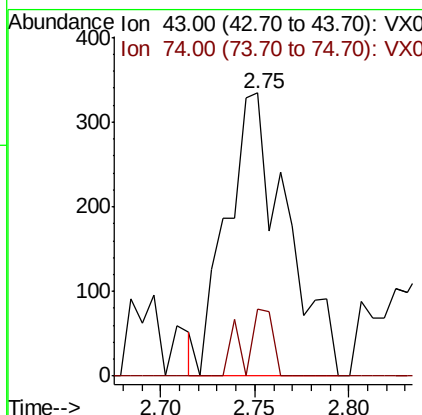
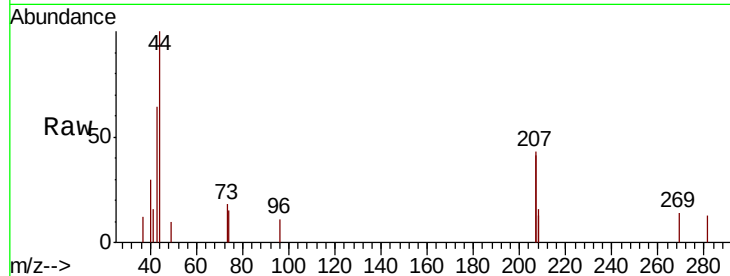




#18
Methvl Acetate
Concen: 0.278 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

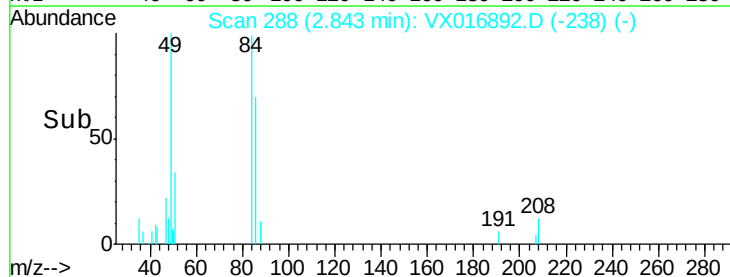
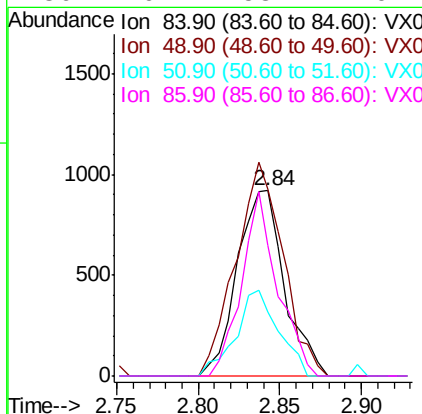
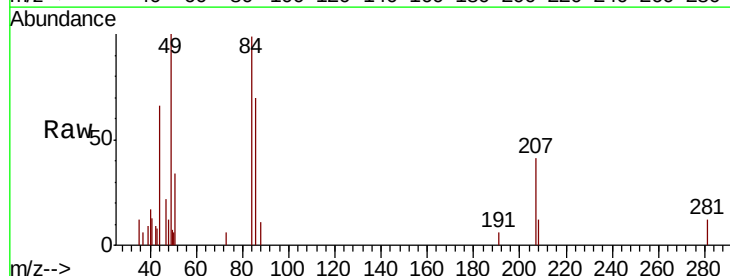
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

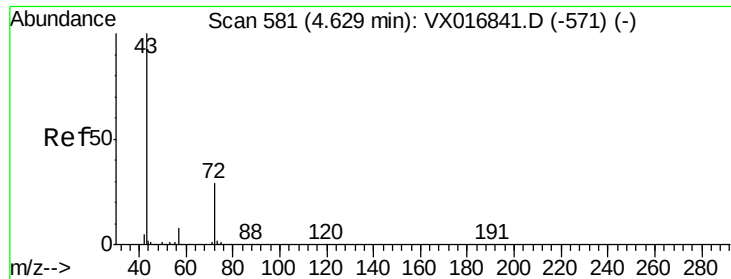
Tot Ion: 43 Resp: 733
Ion Ratio Lower Upper
43 100
74 11.1 21.8 32.8#



#20
Methylene Chloride
Concen: 0.746 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

Tgt Ion: 84 Resp: 1857
Ion Ratio Lower Upper
84 100
49 101.0 86.6 129.8
51 34.6 27.1 40.7
86 70.7 53.1 79.7

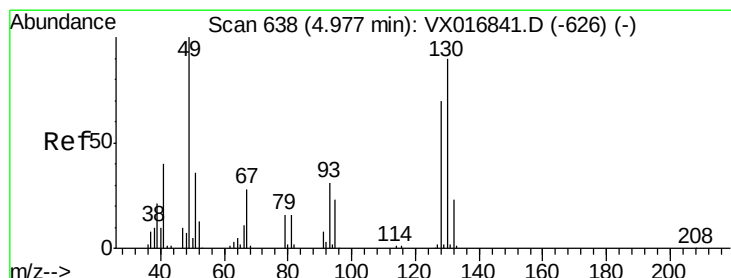
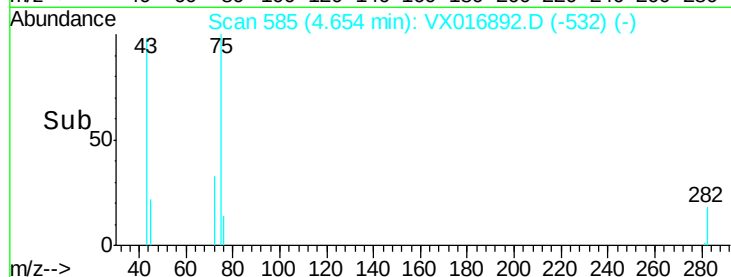
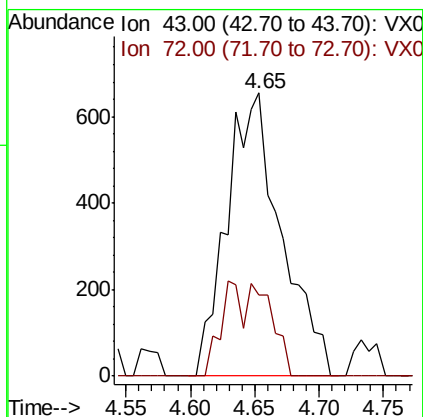
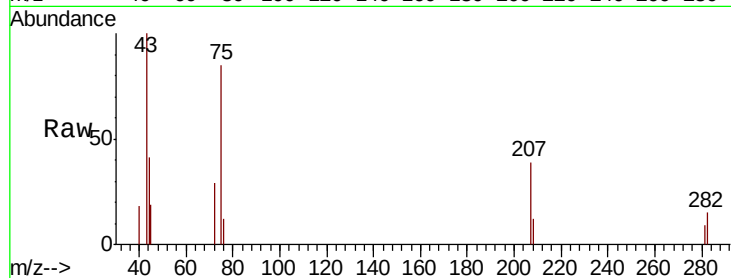




#25
2-Butanone
Concen: 1.349 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

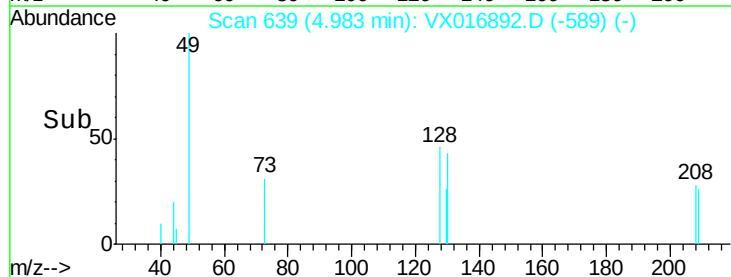
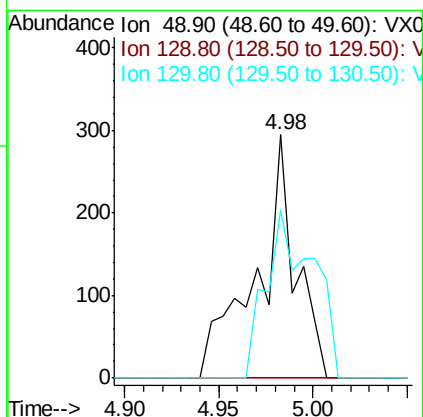
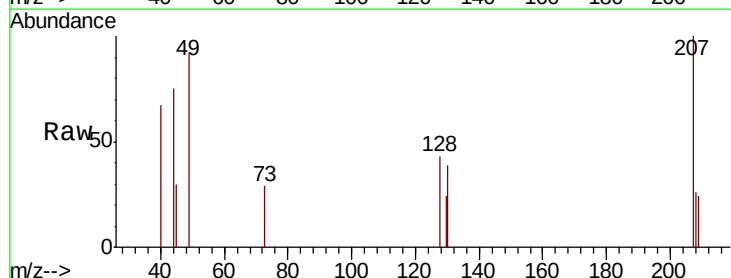
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

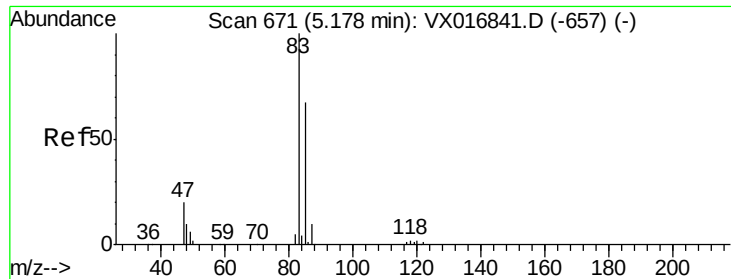
Tot Ion: 43 Resp: 1926
Ion Ratio Lower Upper
43 100
72 28.6 23.5 35.3



#28
Bromochloromethane
Concen: 0.252 ug/l
RT: 4.98 min Scan# 639
Delta R.T. 0.01 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

Tgt Ion: 49 Resp: 420
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 83.3 76.8 115.2

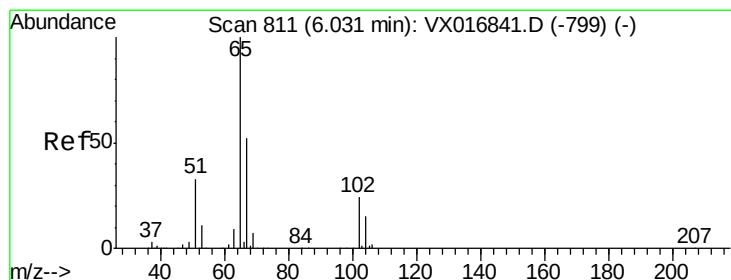
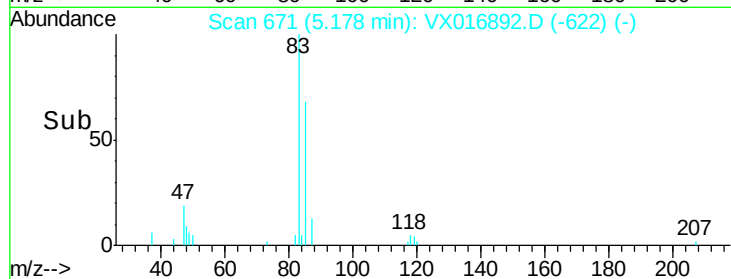
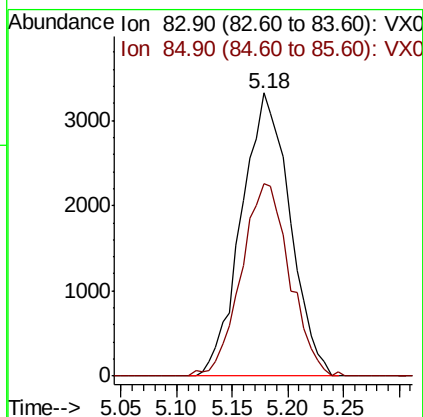
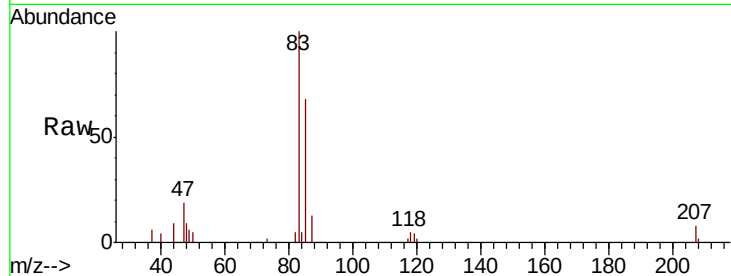




#30
Chloroform
Concen: 2.375 ug/l
RT: 5.18 min Scan# 671
Delta R.T. -0.00 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

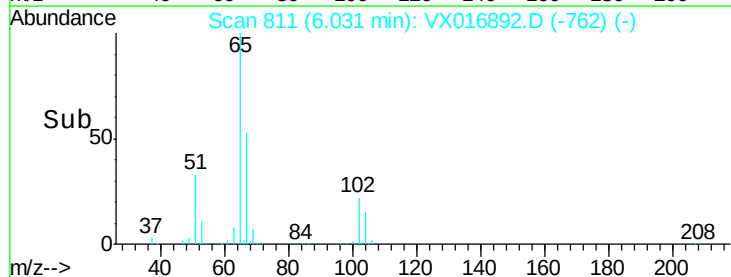
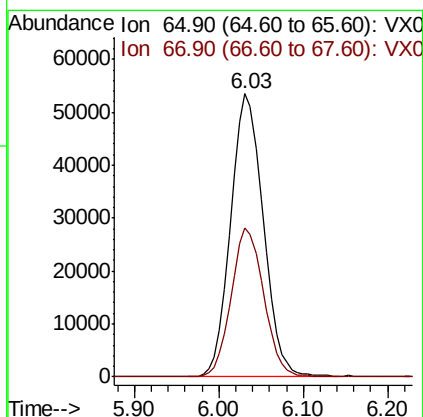
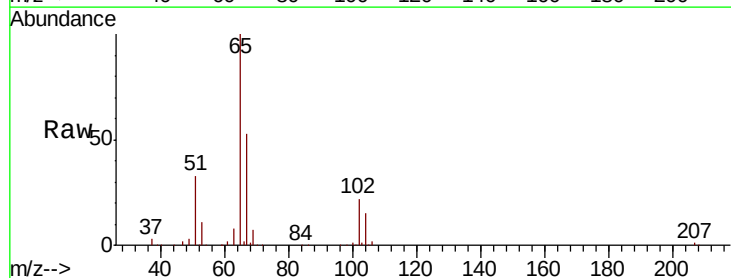
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

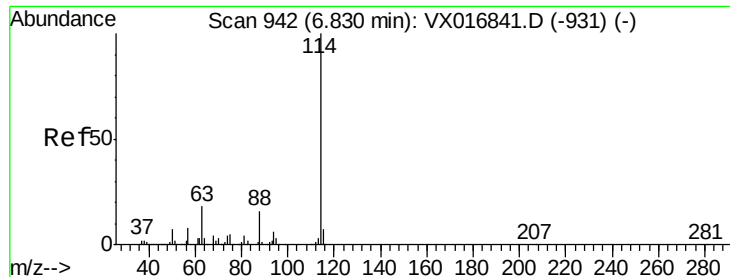
Tot Ion: 83 Resp: 10079
Ion Ratio Lower Upper
83 100
85 67.9 53.4 80.0



#33
1,2-Dichloroethane-d4
Concen: 49.145 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

Tgt Ion: 65 Resp: 140443
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

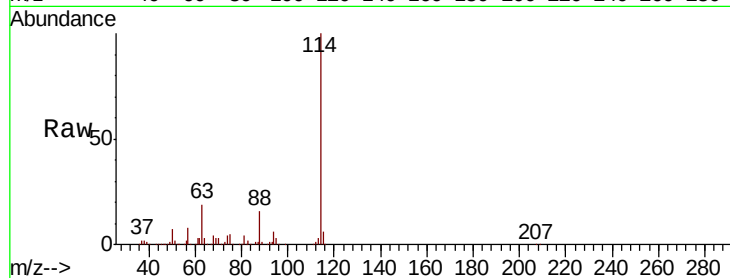
Tot Ion:114 Resp: 387603

Ion Ratio Lower Upper

114 100

63 18.8 0.0 37.0

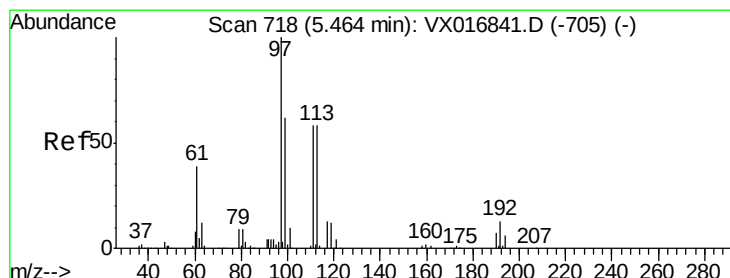
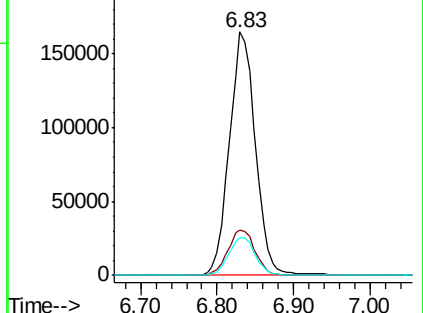
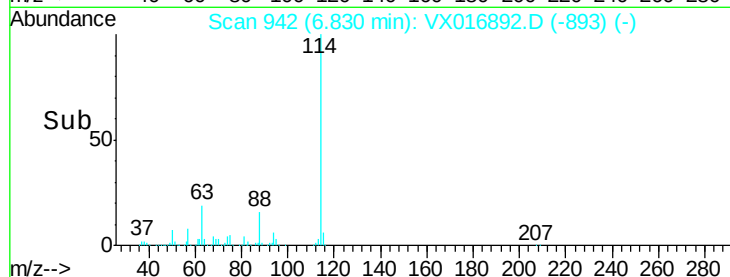
88 15.7 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.411 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

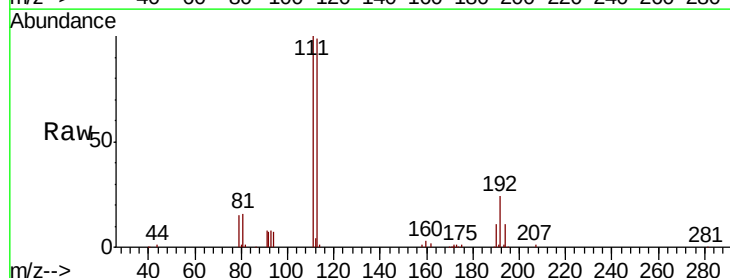
Tgt Ion:113 Resp: 120034

Ion Ratio Lower Upper

113 100

111 103.7 81.0 121.4

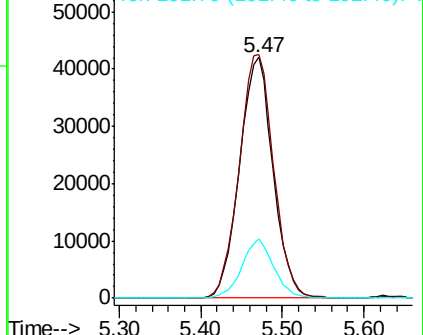
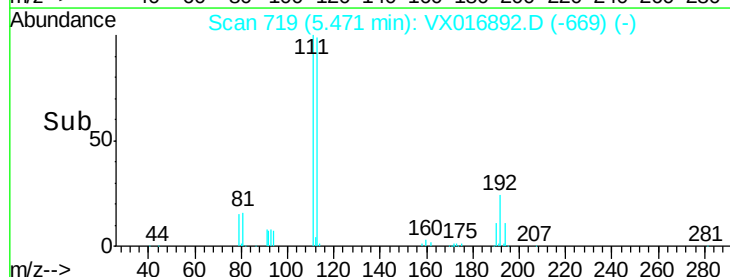
192 23.3 18.5 27.7

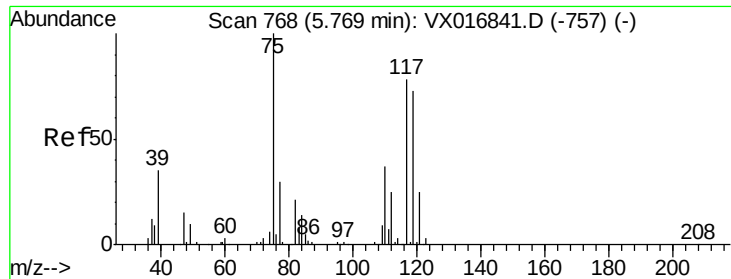


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

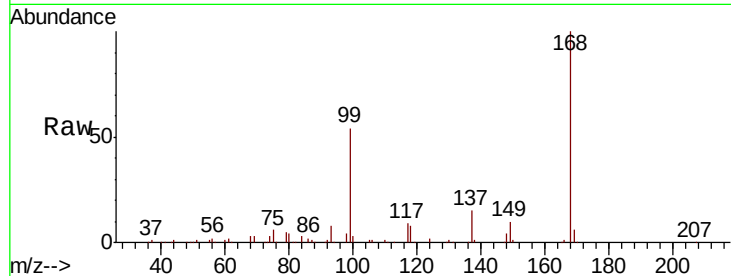




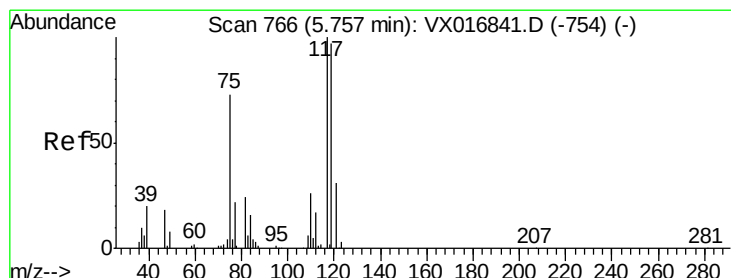
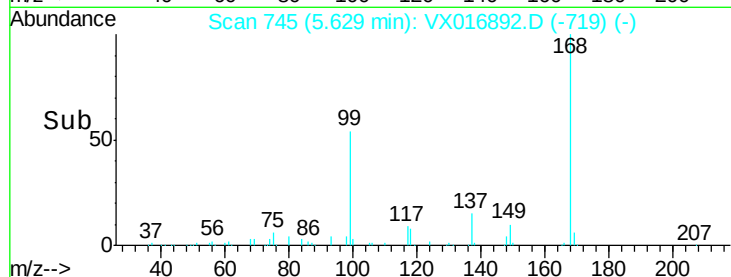
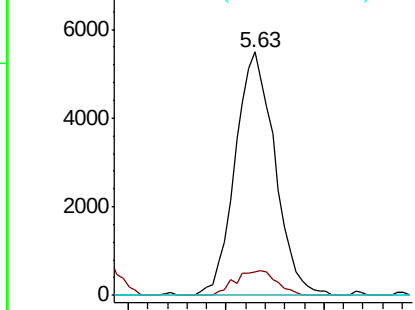
#36
 1,1-Dichloropropene
 Concen: 4.320 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016892.D
 Acq: 19 Jun 2020 20:02

Instrument :
 MSVOA_X
 ClientSampleId :
 GROUNDWATER

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.9	56.9#
77	0.0	25.6	38.4#

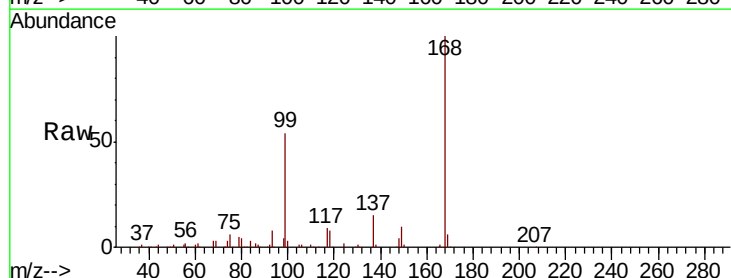


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

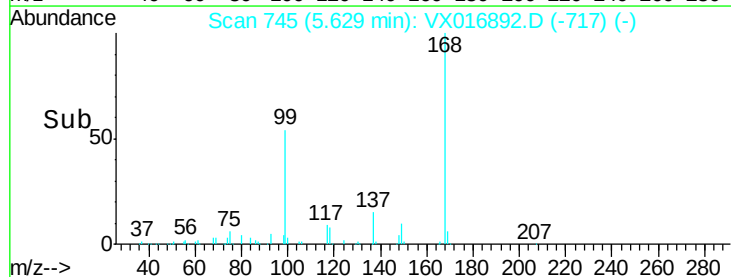
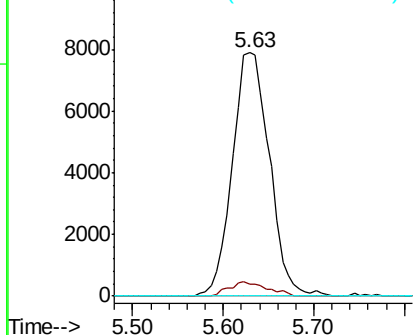


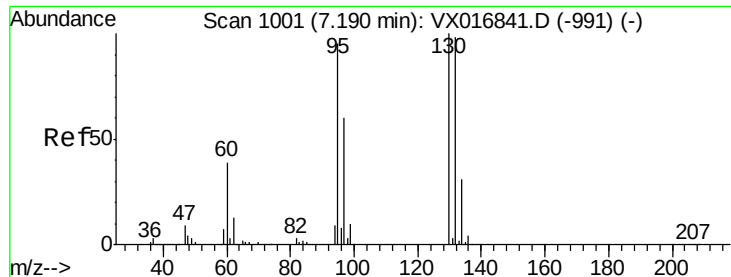
#38
 Carbon Tetrachloride
 Concen: 5.573 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016892.D
 Acq: 19 Jun 2020 20:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	77.4	116.2#
121	0.0	24.7	37.1#



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





#44

Trichloroethene

Concen: 0.632 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

Instrument :

MSVOA_X

ClientSampleId :

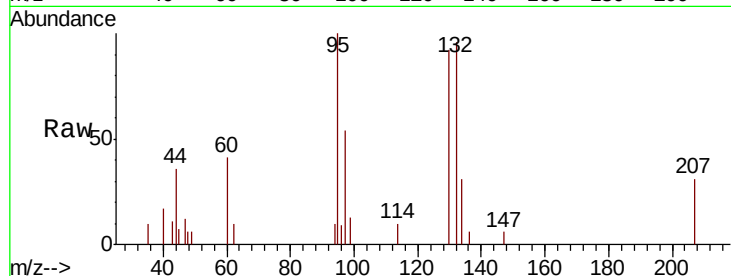
GROUNDWATER

Tot Ion:130 Resp: 2080

Ion Ratio Lower Upper

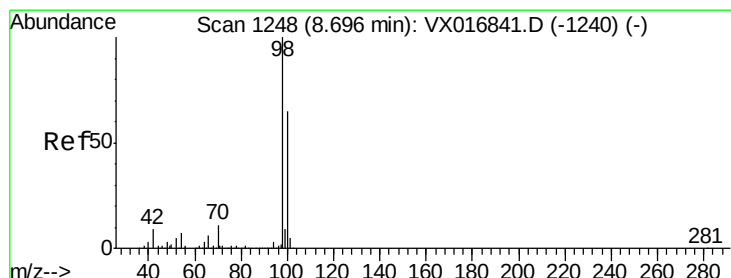
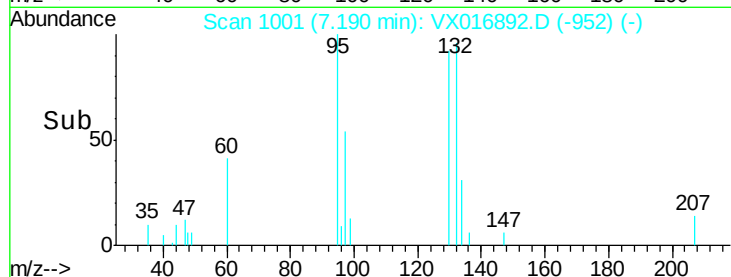
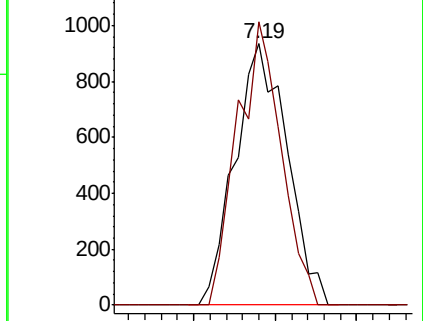
130 100

95 108.5 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 47.697 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016892.D

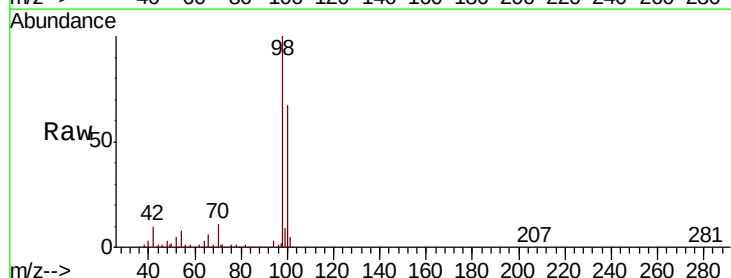
Acq: 19 Jun 2020 20:02

Tgt Ion: 98 Resp: 473162

Ion Ratio Lower Upper

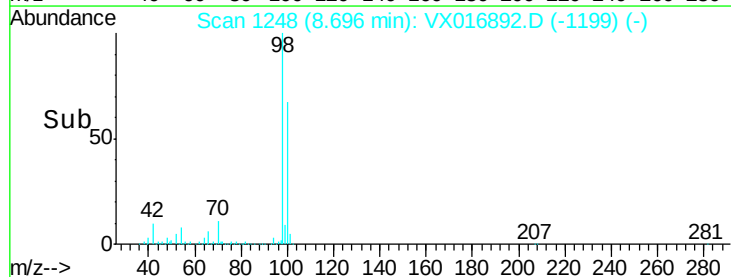
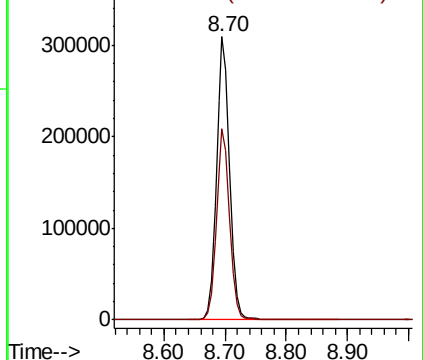
98 100

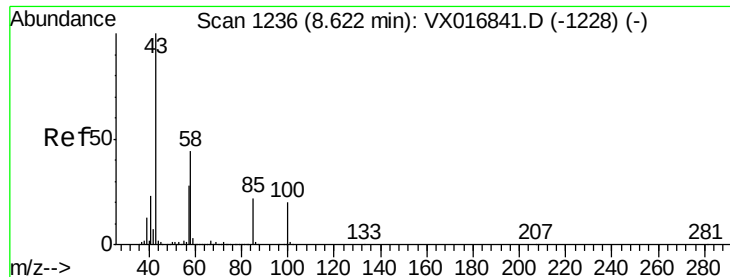
100 67.5 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

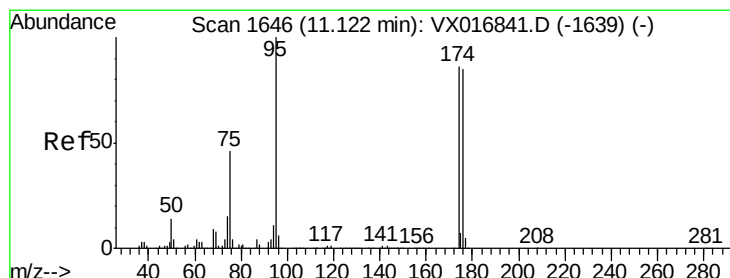
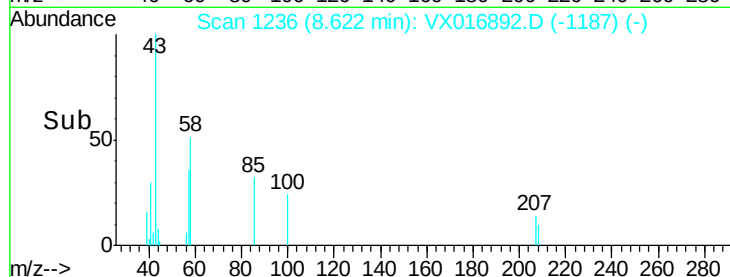
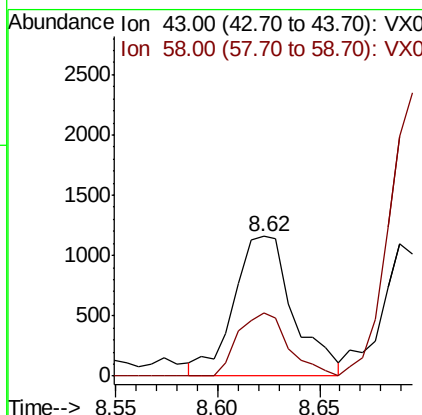
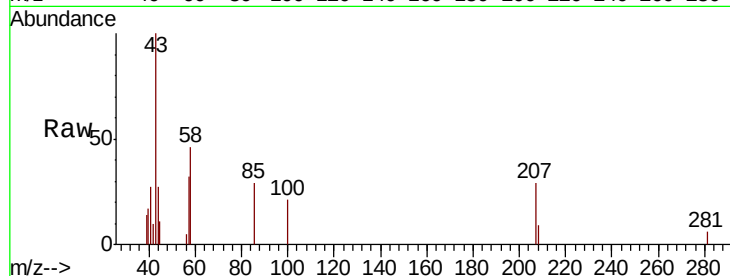




#51
4-Methyl-2-Pentanone
Concen: 0.711 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

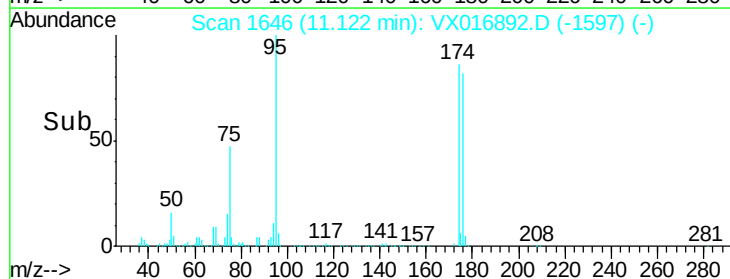
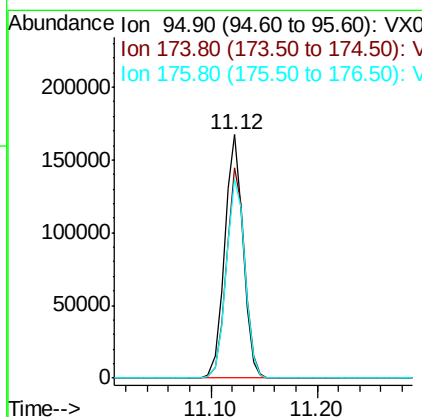
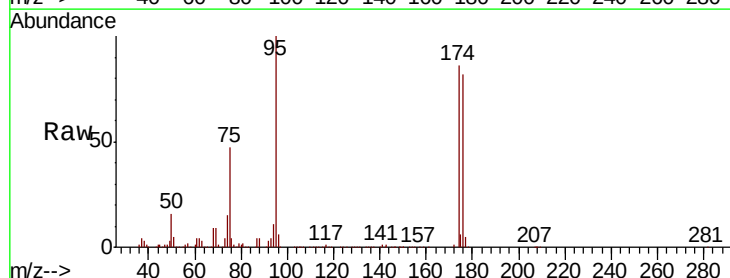
Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

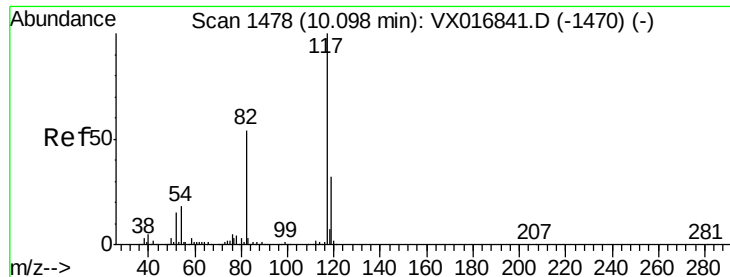
Tot Ion: 43 Resp: 2360
Ion Ratio Lower Upper
43 100
58 38.3 34.3 51.5



#62
4-Bromofluorobenzene
Concen: 53.318 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

Tgt Ion: 95 Resp: 202652
Ion Ratio Lower Upper
95 100
174 86.4 0.0 174.2
176 83.5 0.0 170.0

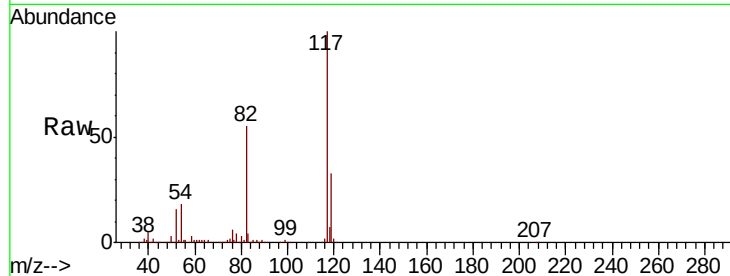




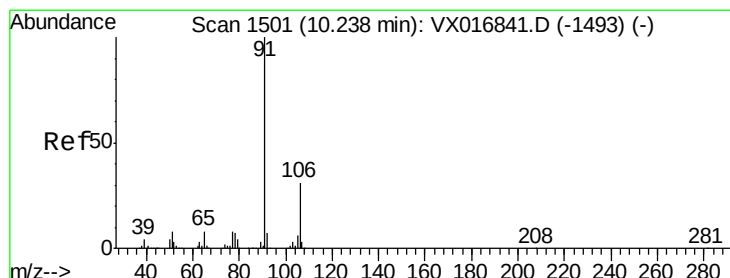
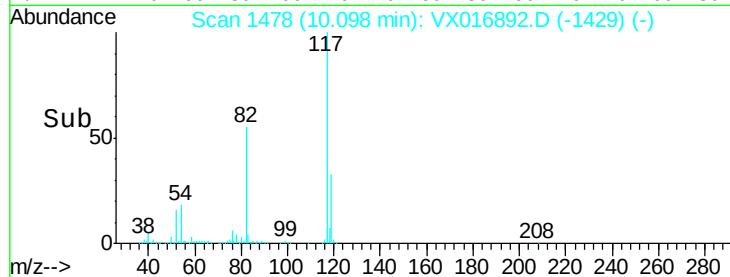
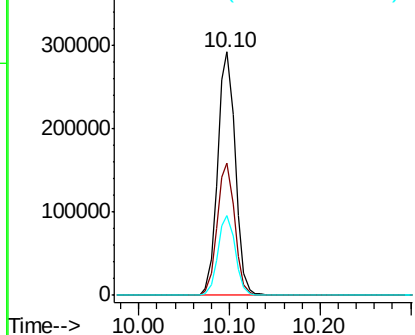
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

Instrument :
MSVOA_X
ClientSampleId :
GROUNDWATER

Tot Ion:117 Resp: 397628
Ion Ratio Lower Upper
117 100
82 54.5 43.4 65.0
119 32.8 25.7 38.5

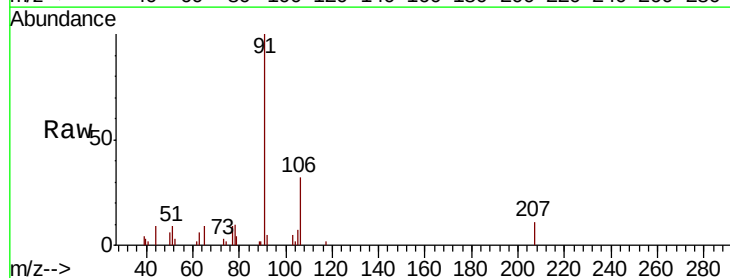


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

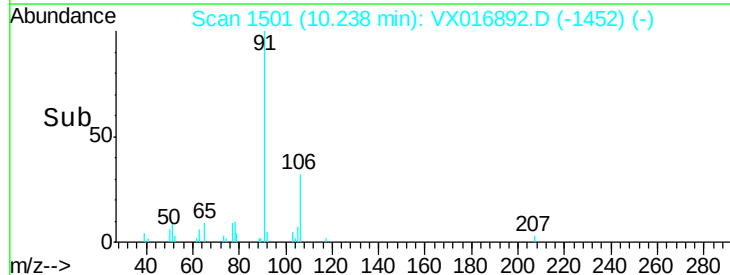
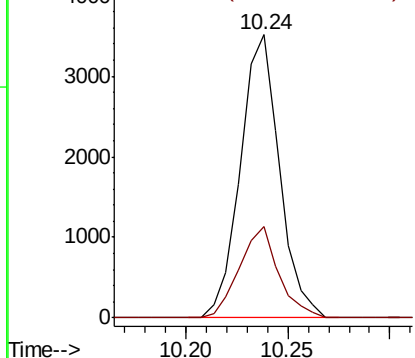


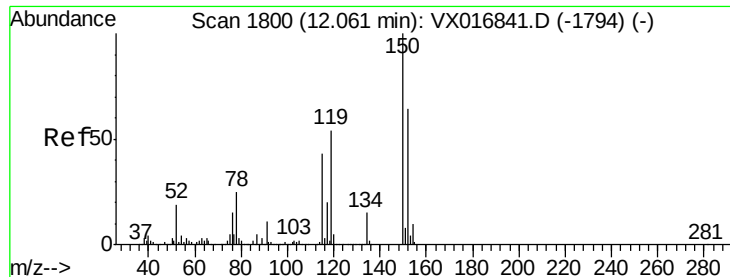
#67
Ethyl Benzene
Concen: 0.344 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. -0.00 min
Lab File: VX016892.D
Acq: 19 Jun 2020 20:02

Tgt Ion: 91 Resp: 4675
Ion Ratio Lower Upper
91 100
106 32.2 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

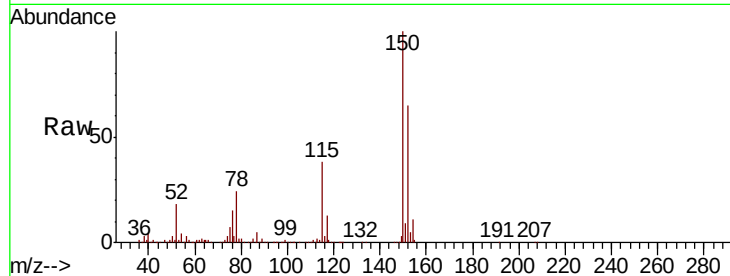
Tot Ion:152 Resp: 211521

Ion Ratio Lower Upper

152 100

115 58.6 40.9 122.8

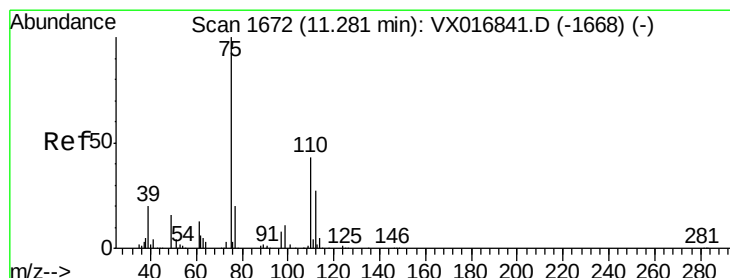
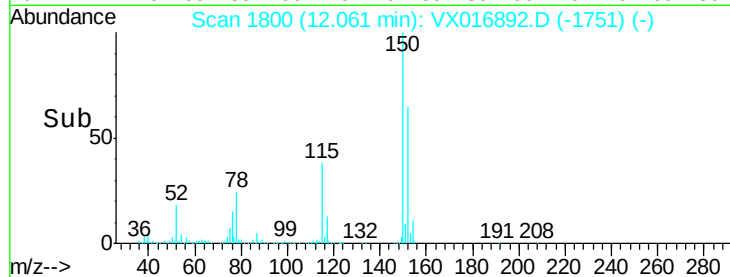
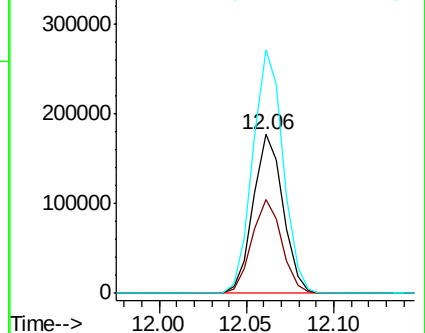
150 155.3 0.0 344.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.877 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016892.D

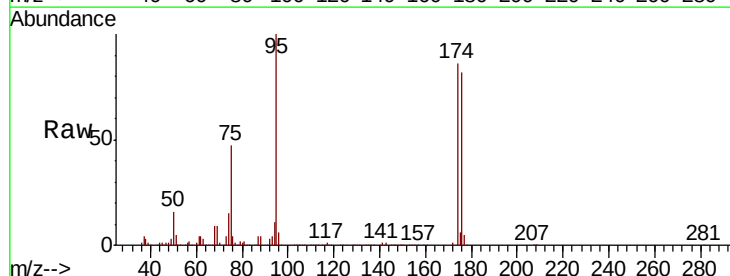
Acq: 19 Jun 2020 20:02

Tgt Ion: 75 Resp: 96101

Ion Ratio Lower Upper

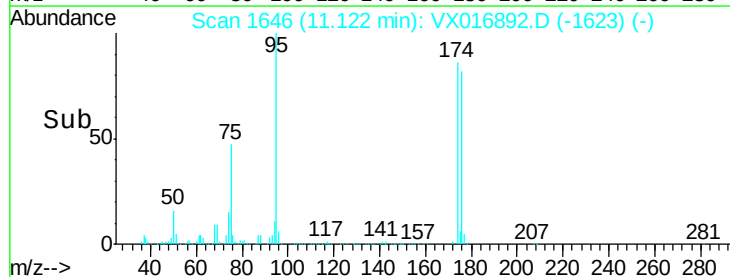
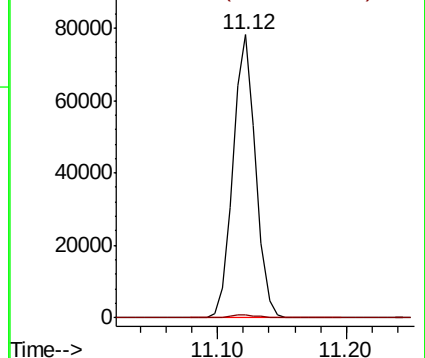
75 100

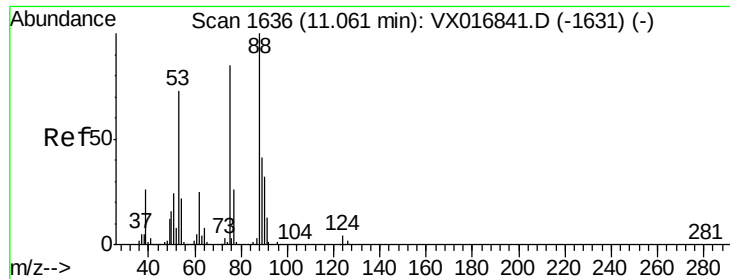
77 1.3 20.5 61.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.920 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

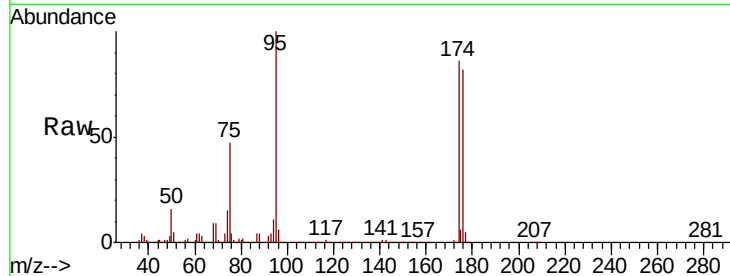
Tot Ion: 75 Resp: 96101

Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.8#

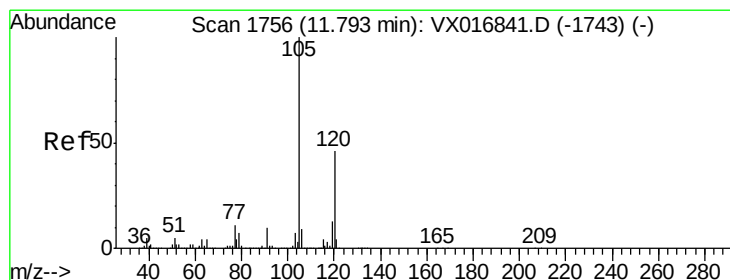
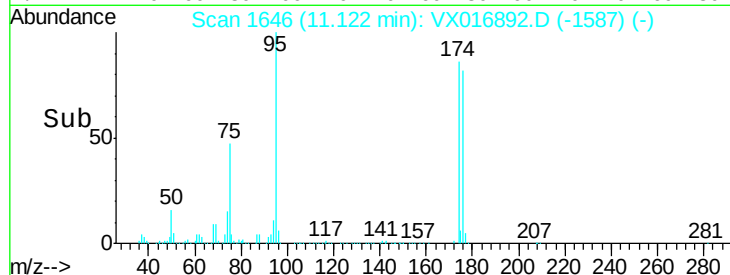
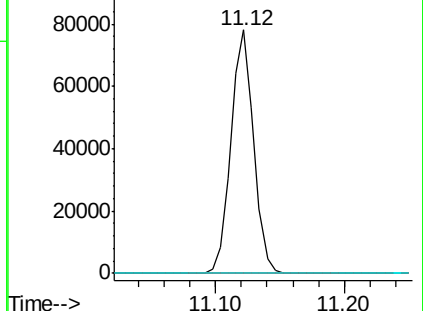
89 0.0 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.388 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX016892.D

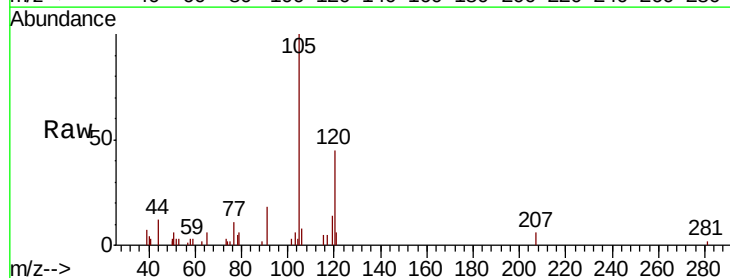
Acq: 19 Jun 2020 20:02

Tgt Ion: 105 Resp: 4693

Ion Ratio Lower Upper

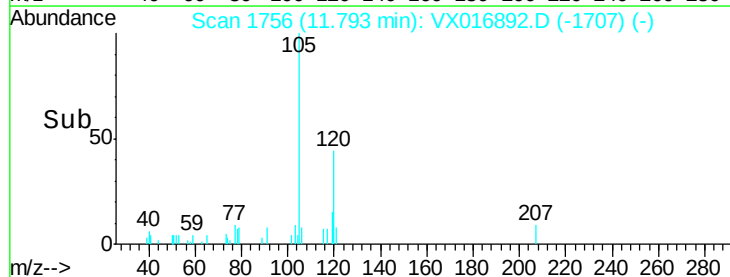
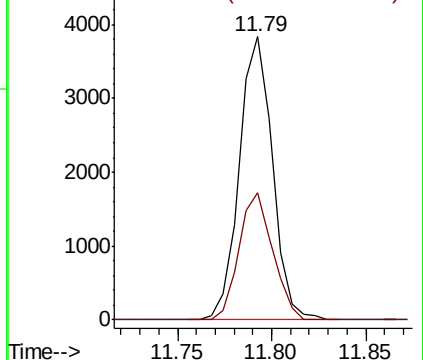
105 100

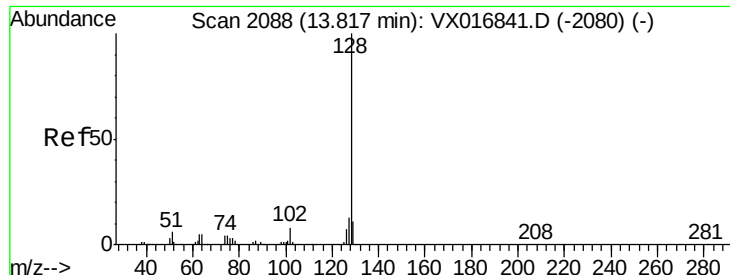
120 45.4 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 0.334 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016892.D

Acq: 19 Jun 2020 20:02

Instrument :

MSVOA_X

ClientSampleId :

GROUNDWATER

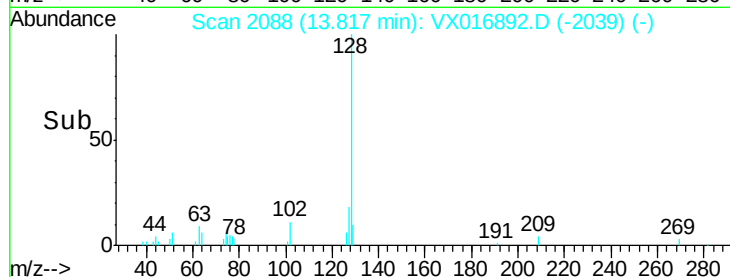
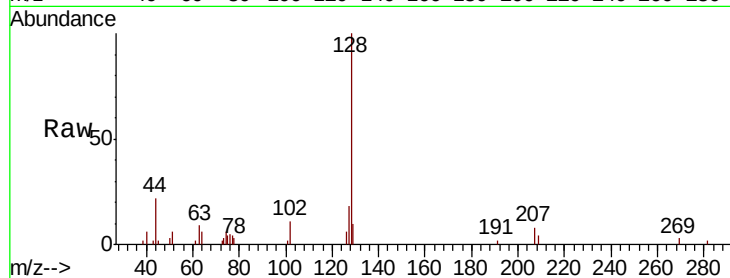
Tot Ion:128 Resp: 4310

Ion Ratio Lower Upper

128 100

127 14.8 10.4 15.6

129 11.1 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

