

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092120\
 Data File : VD066788.D
 Acq On : 21 Sep 2020 17:43
 Operator : VA/SY
 Sample : L4091-01
 Misc : 4.99G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CARLSTADT-TOPSOIL-2020

Quant Time: Sep 22 00:55:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091520S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 16:35:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	401259	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	724465	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	680801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	275584	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	229401	53.58	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.16%	
35) Dibromofluoromethane	7.91	113	233207	52.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.00%	
50) Toluene-d8	10.34	98	864412	54.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.24%	
62) 4-Bromofluorobenzene	12.63	95	279432	51.16	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.32%	

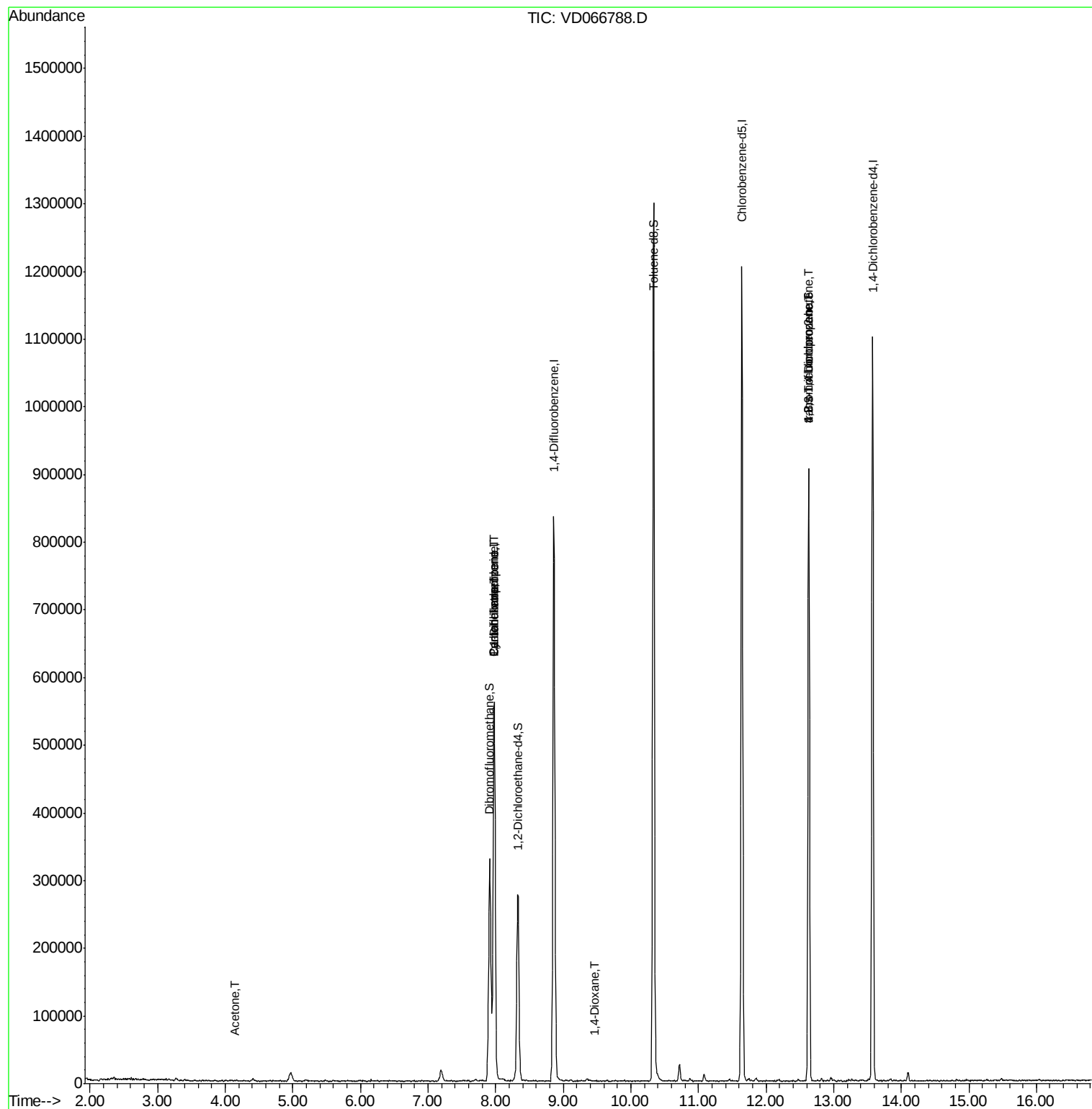
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.98	85	880	Below Cal	#	43
11) Tert butyl alcohol	5.20	59	896	Below Cal	#	76
16) Acetone	4.15	43	1227	1.407	ug/l	95
18) Methyl Acetate	4.74	43	287	Below Cal	#	52
20) Methylene Chloride	4.96	84	10063	Below Cal	#	61
31) Cyclohexane	7.98	56	11637	1.539	ug/l #	34
36) 1,1-Dichloropropene	7.98	75	35669	4.789	ug/l #	52
38) Carbon Tetrachloride	7.97	117	43836	5.542	ug/l #	18
49) 1,4-Dioxane	9.46	88	113	3.854	ug/l #	25
76) 1,2,3-Trichloropropane	12.63	75	149836	63.520	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	149836	137.087	ug/l #	8

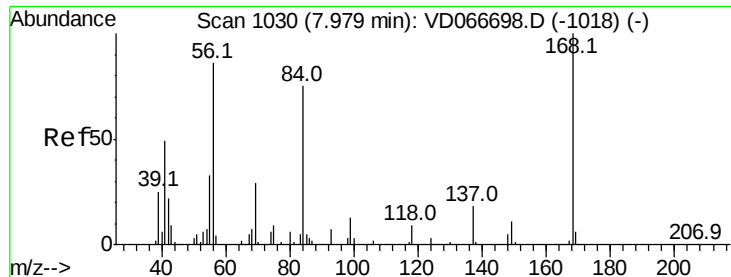
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

Instrument :

MSVOA_D

ClientSampleId :

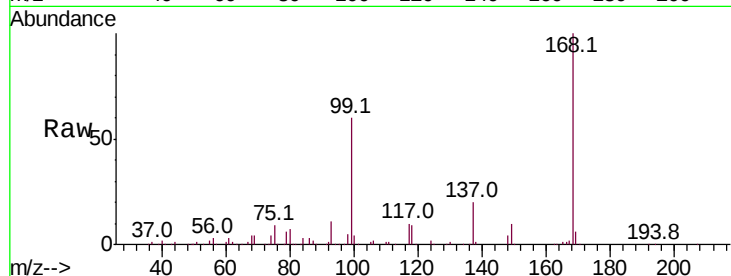
CARLSTADT-TOPSOIL-2020

Tot Ion:168 Resp: 401259

Ion Ratio Lower Upper

168 100

99 59.3 54.4 81.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

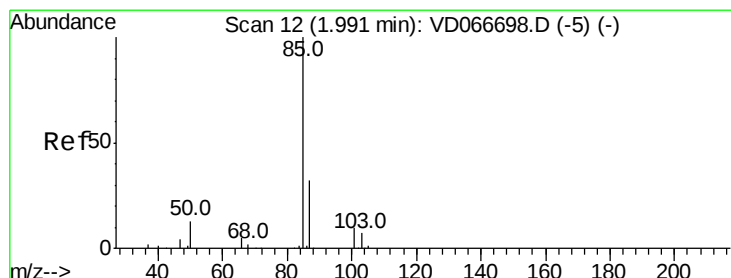
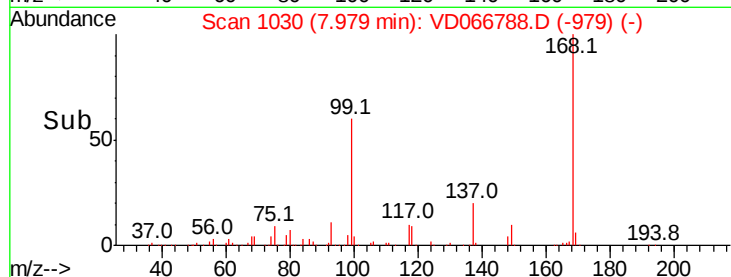
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD066788.D

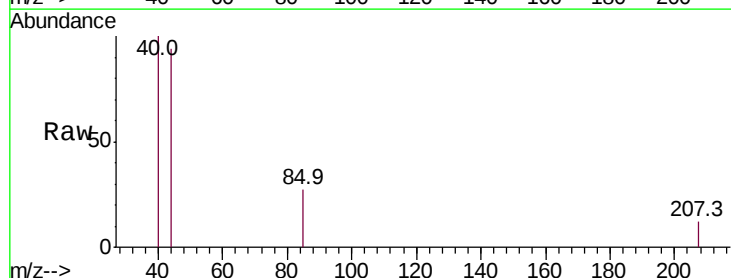
Acq: 21 Sep 2020 17:43

Tgt Ion: 85 Resp: 880

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.98

800

600

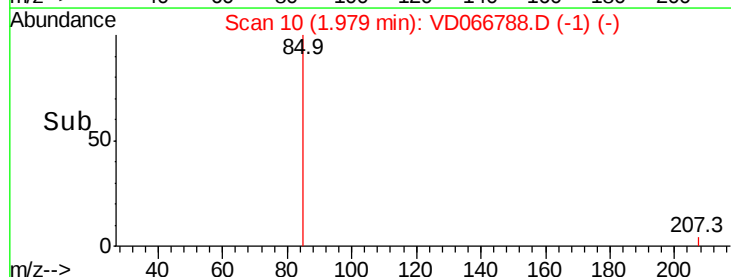
400

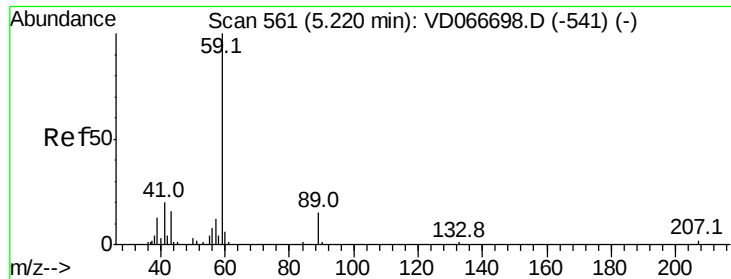
200

0

Time-->

1.96 1.98 2.00 2.02

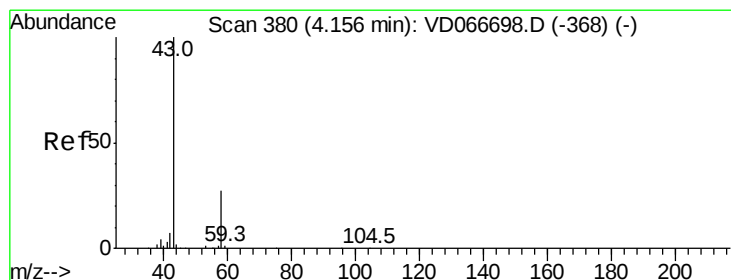
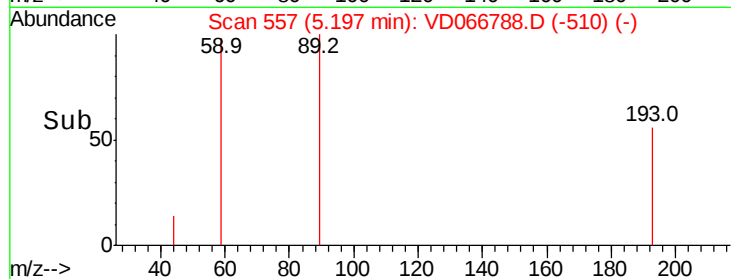
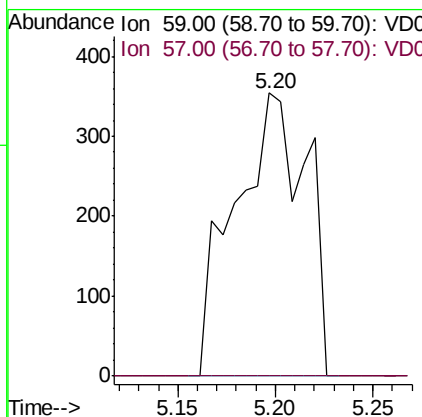
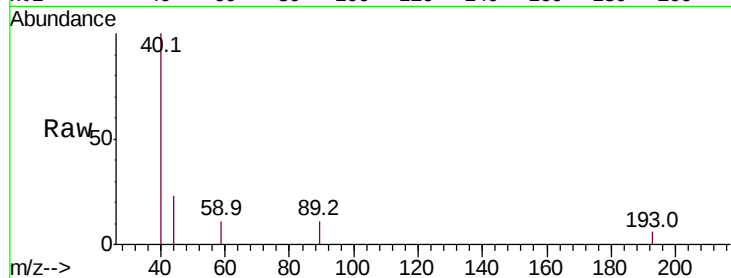




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.20 min Scan# 557
Delta R.T. -0.02 min
Lab File: VD066788.D
Acq: 21 Sep 2020 17:43

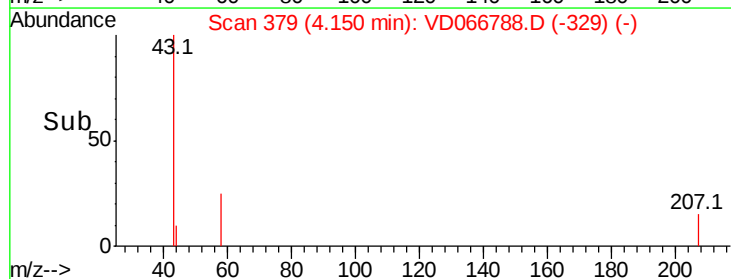
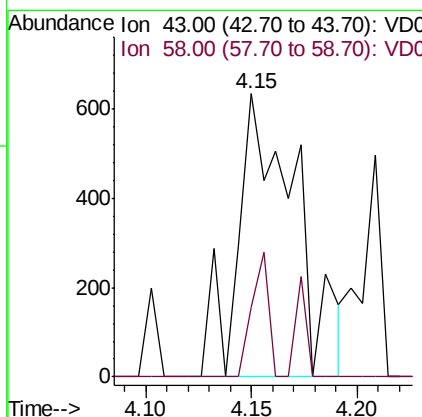
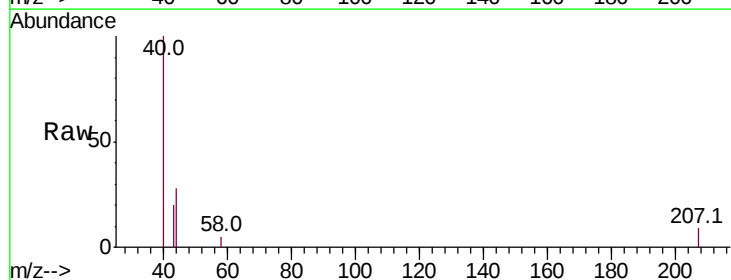
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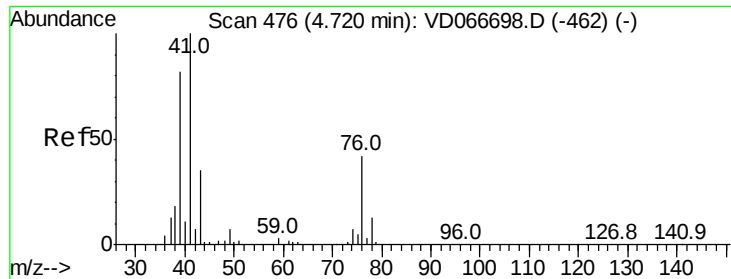
Tot Ion: 59 Resp: 896
Ion Ratio Lower Upper
59 100
57 0.0 6.7 10.1#



#16
Acetone
Concen: 1.407 ug/l
RT: 4.15 min Scan# 379
Delta R.T. -0.01 min
Lab File: VD066788.D
Acq: 21 Sep 2020 17:43

Tgt Ion: 43 Resp: 1227
Ion Ratio Lower Upper
43 100
58 24.8 21.9 32.9

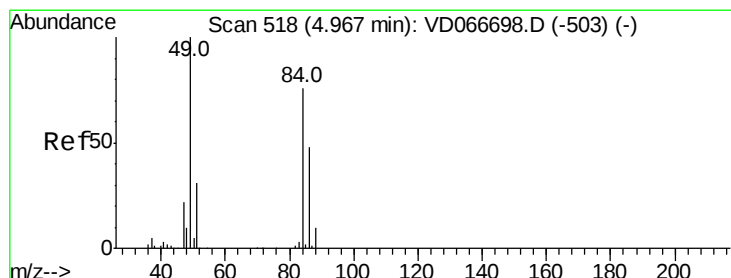
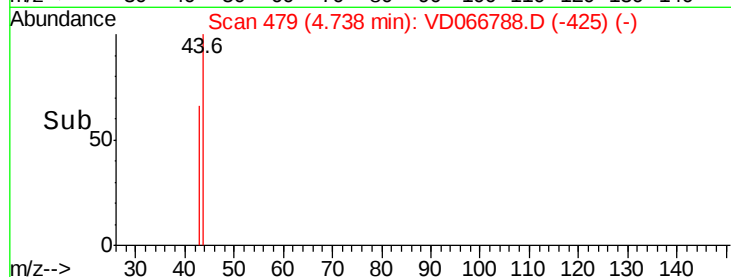
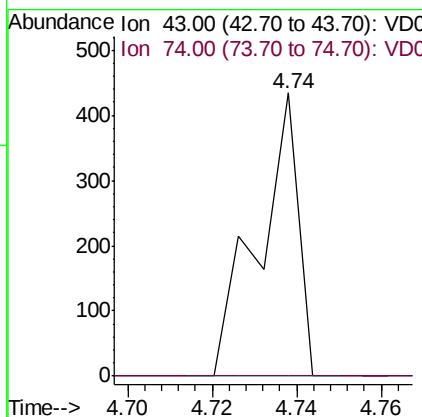
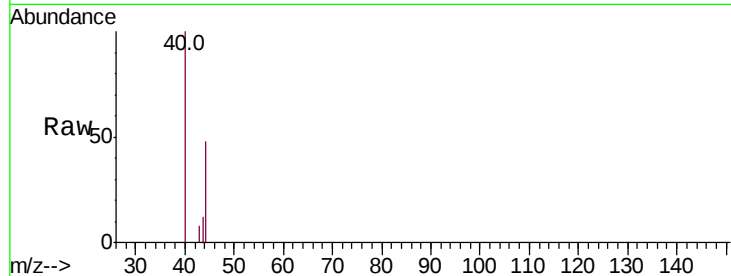




#18
Methyl Acetate
Concen: Below Cal
RT: 4.74 min Scan# 479
Delta R.T. 0.02 min
Lab File: VD066788.D
Acq: 21 Sep 2020 17:43

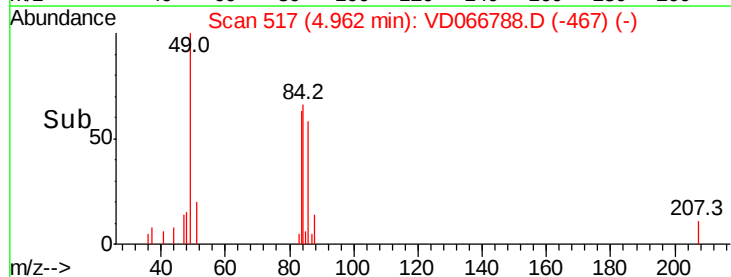
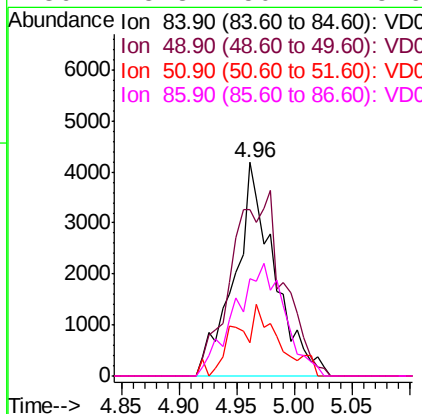
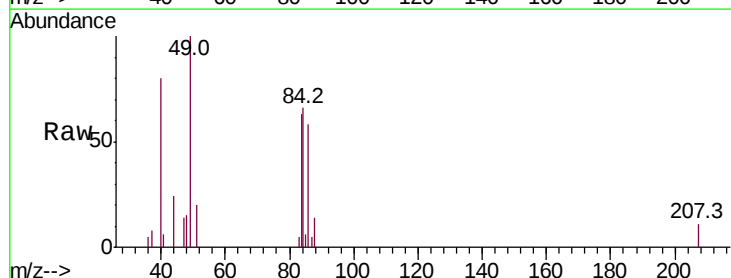
Instrument :
MSVOA_D
ClientSampleId :
CARLSTADT-TOPSOIL-2020

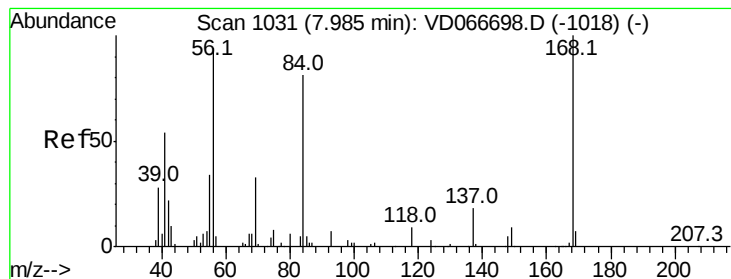
Tot Ion: 43 Resp: 287
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD066788.D
Acq: 21 Sep 2020 17:43

Tgt Ion: 84 Resp: 10063
Ion Ratio Lower Upper
84 100
49 77.6 105.0 157.6#
51 15.7 32.2 48.4#
86 45.3 50.4 75.6#





#31

Cyclohexane

Concen: 1.539 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

Instrument :

MSVOA_D

ClientSampleId :

CARLSTADT-TOPSOIL-2020

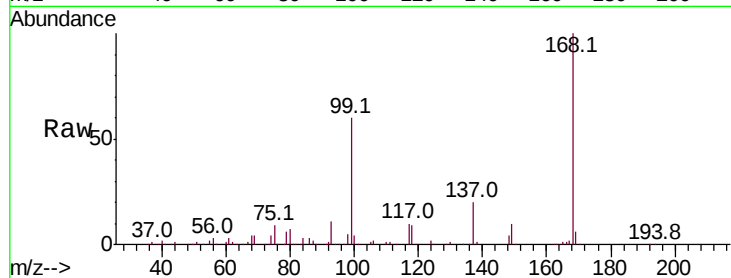
Tot Ion: 56 Resp: 11637

Ion Ratio Lower Upper

56 100

69 126.6 27.7 41.5#

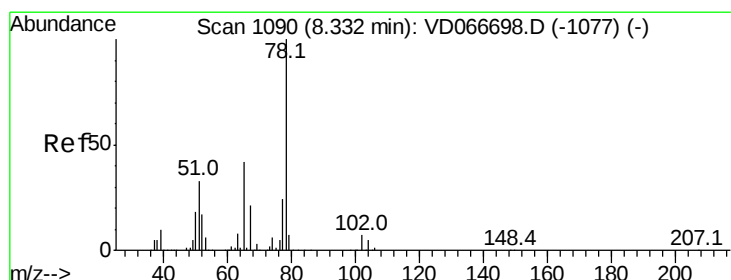
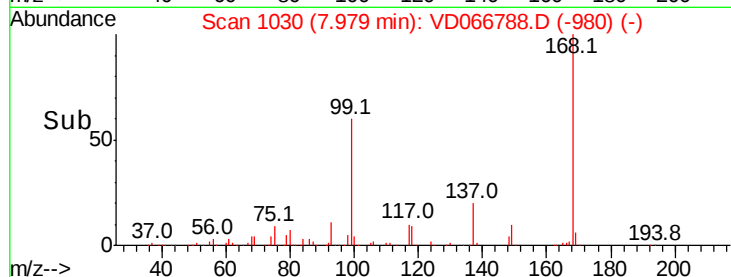
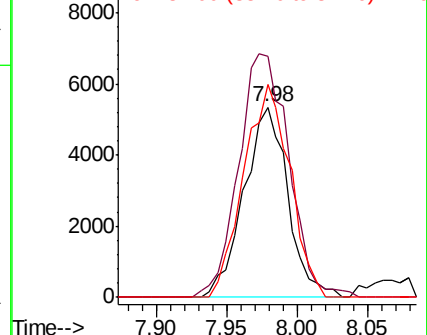
84 112.0 68.5 102.7#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 53.583 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD066788.D

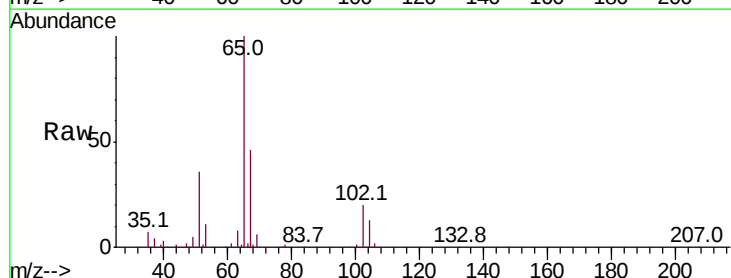
Acq: 21 Sep 2020 17:43

Tgt Ion: 65 Resp: 229401

Ion Ratio Lower Upper

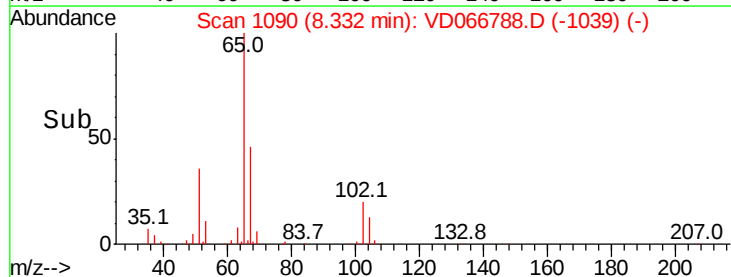
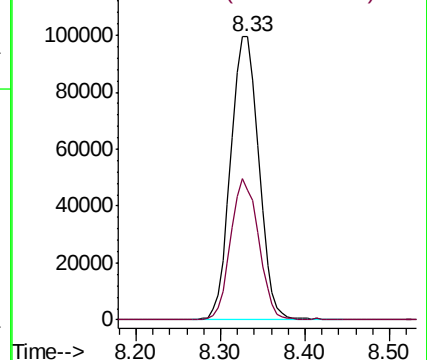
65 100

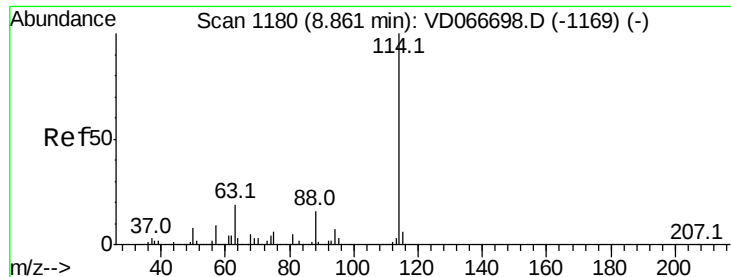
67 49.4 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

Instrument :

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ClientSampleId :

CARLSTADT-TOPSOIL-2020

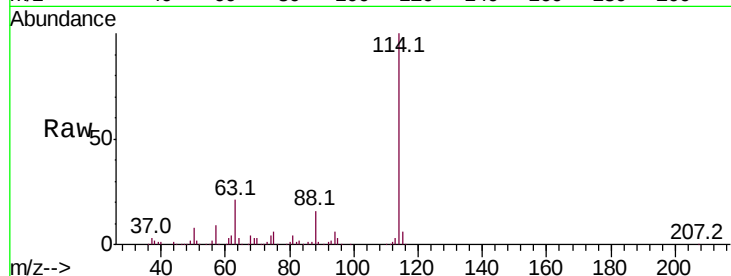
Tot Ion:114 Resp: 724465

Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.6

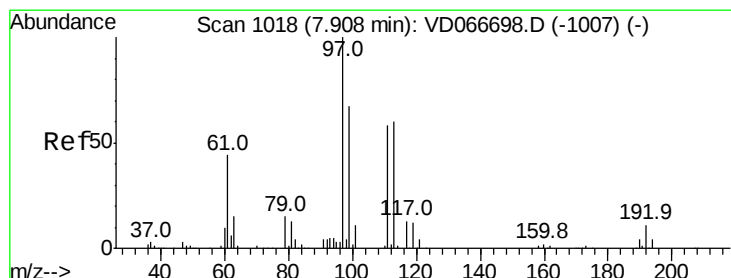
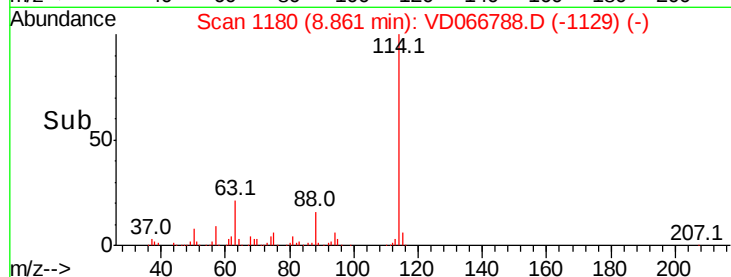
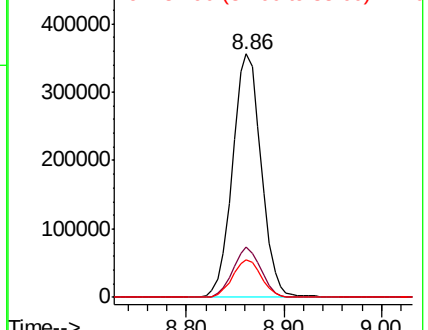
88 15.7 0.0 32.2



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: 52.504 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

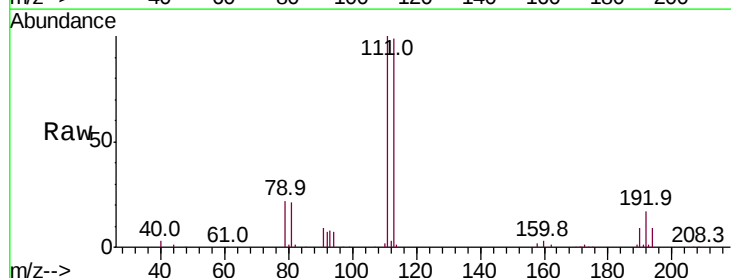
Tgt Ion:113 Resp: 233207

Ion Ratio Lower Upper

113 100

111 103.1 83.2 124.8

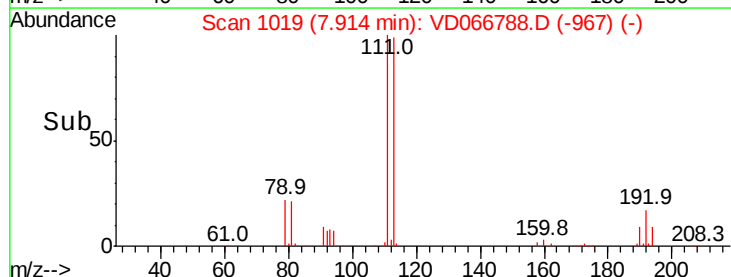
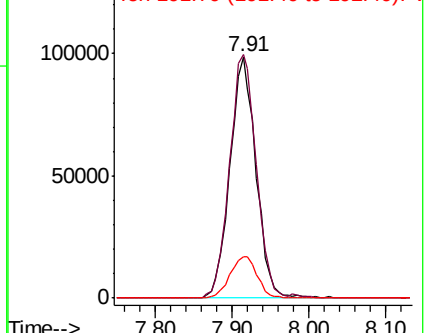
192 17.9 14.8 22.2

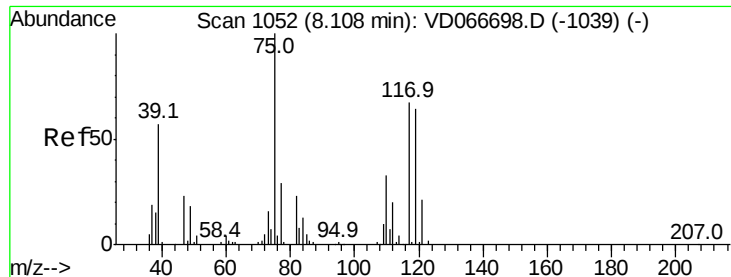


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.789 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

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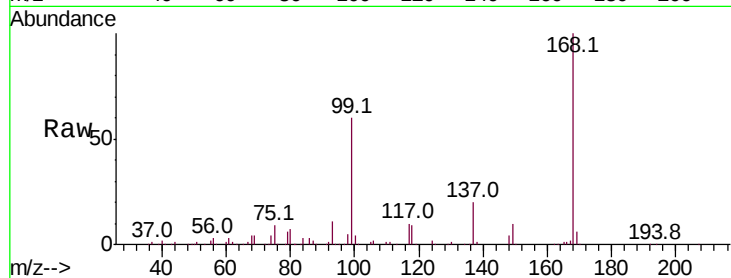
Tot Ion: 75 Resp: 35669

Ion Ratio Lower Upper

75 100

110 10.7 17.1 51.2#

77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

7.98

15000

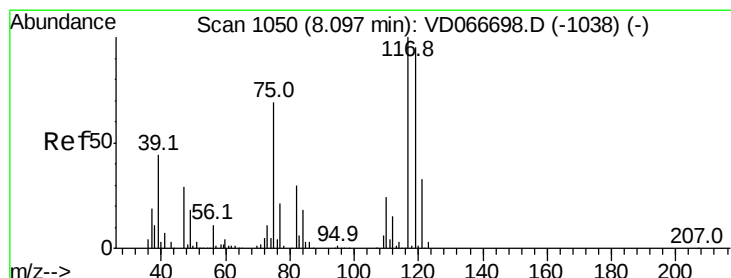
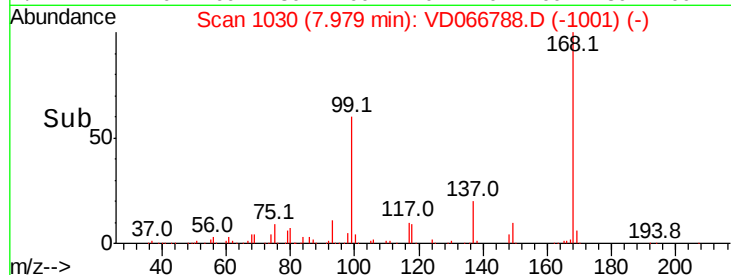
10000

5000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#38

Carbon Tetrachloride

Concen: 5.542 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

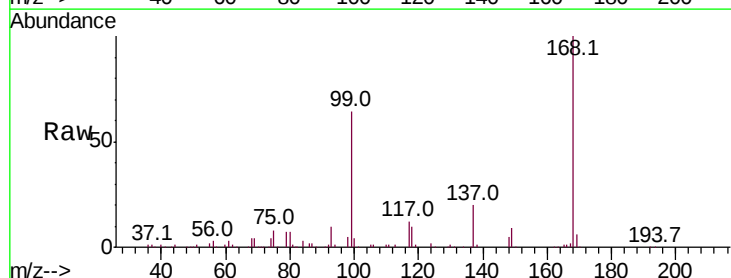
Tgt Ion: 117 Resp: 43836

Ion Ratio Lower Upper

117 100

119 7.3 75.8 113.6#

121 0.0 26.2 39.4#



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

7.97

25000

20000

15000

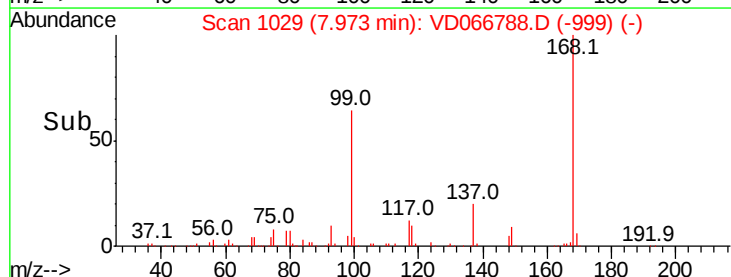
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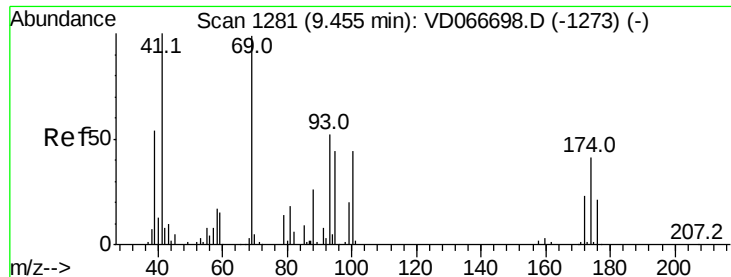
5000

0

7.90 7.95 8.00 8.05

Time-->





#49

1,4-Dioxane

Concen: 3.854 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

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CARLSTADT-TOPSOIL-2020

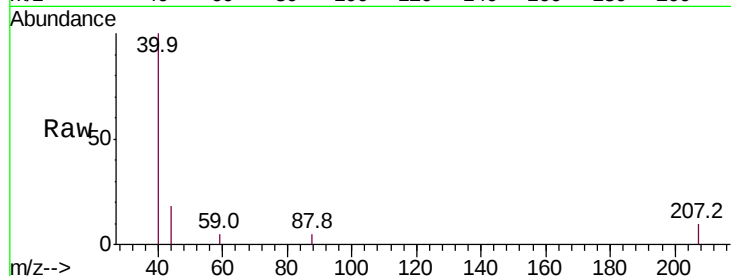
Tot Ion: 88 Resp: 113

Ion Ratio Lower Upper

88 100

43 0.0 29.3 43.9#

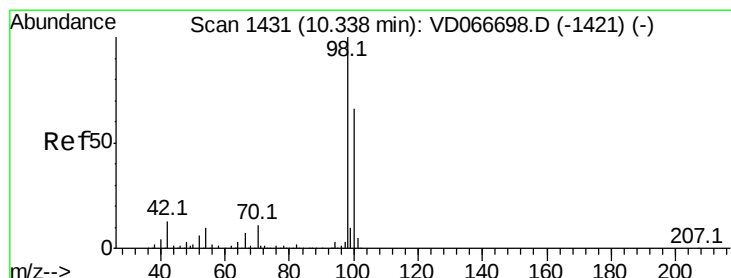
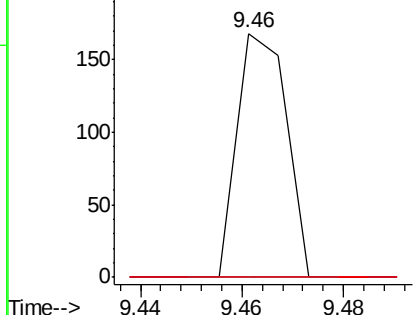
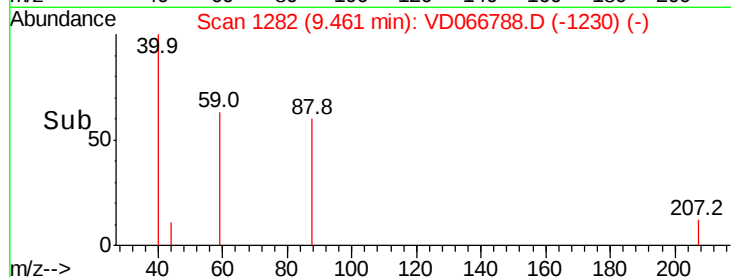
58 0.0 51.4 77.2#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 54.625 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066788.D

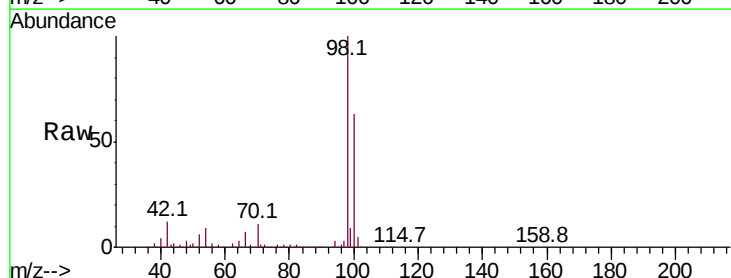
Acq: 21 Sep 2020 17:43

Tgt Ion: 98 Resp: 864412

Ion Ratio Lower Upper

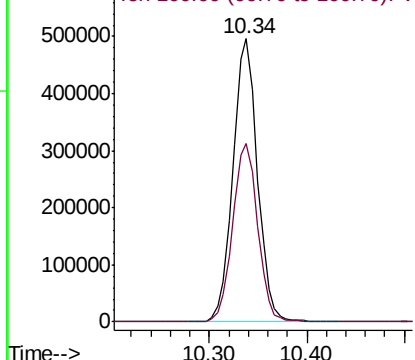
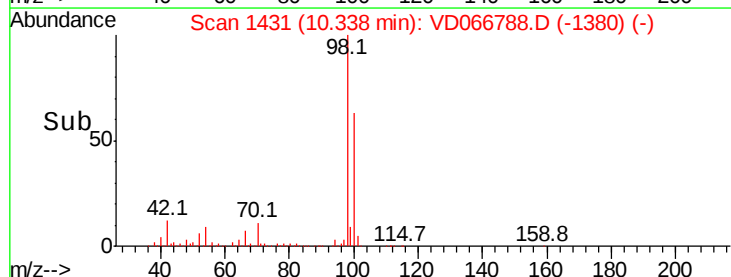
98 100

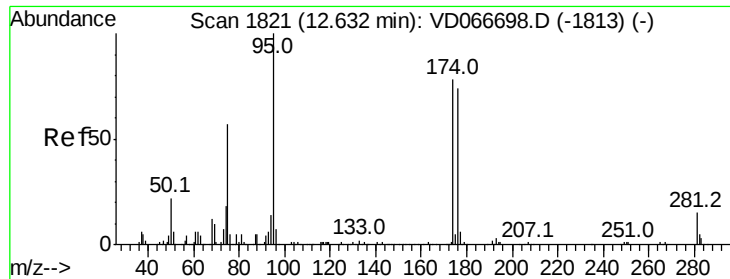
100 64.5 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

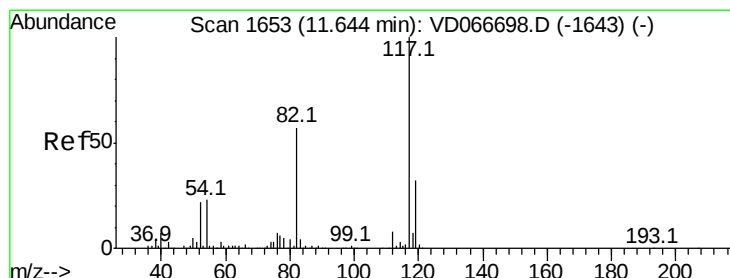
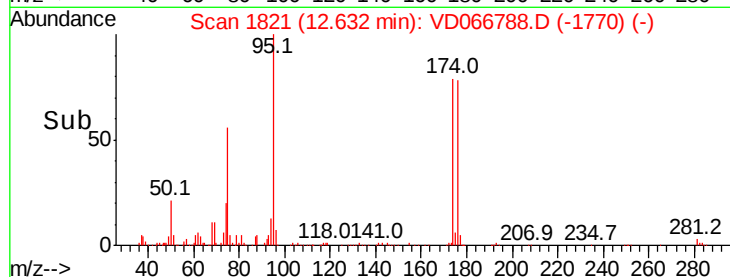
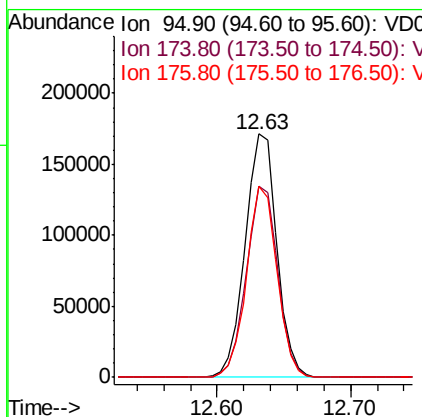
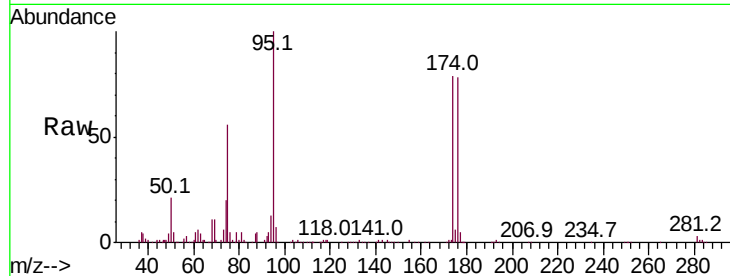




#62
4-Bromofluorobenzene
Concen: 51.155 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD066788.D
Acq: 21 Sep 2020 17:43

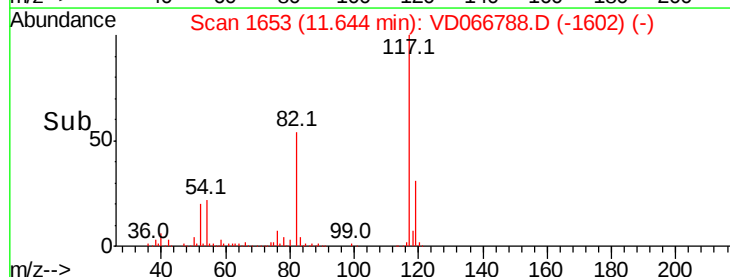
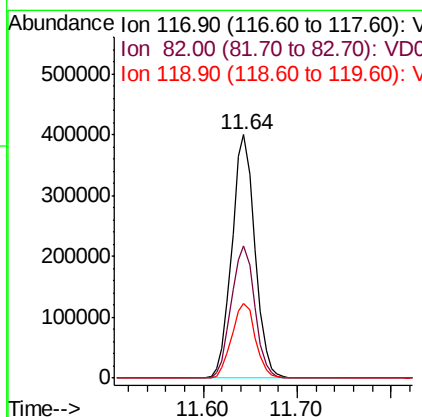
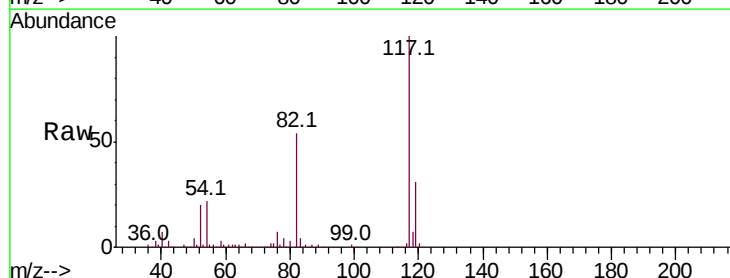
Instrument :
MSVOA_D
ClientSampleId :
CARLSTADT-TOPSOIL-2020

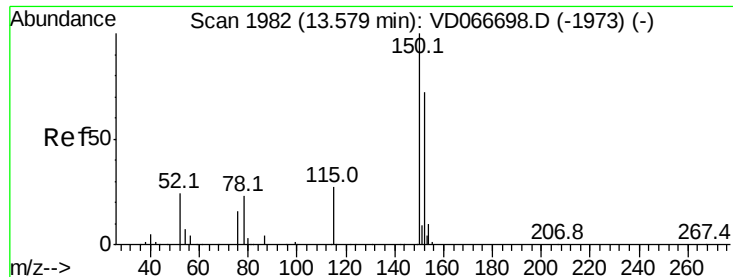
Tot Ion: 95 Resp: 279432
Ion Ratio Lower Upper
95 100
174 77.9 0.0 156.6
176 75.7 0.0 150.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066788.D
Acq: 21 Sep 2020 17:43

Tgt Ion: 117 Resp: 680801
Ion Ratio Lower Upper
117 100
82 54.5 45.4 68.0
119 30.8 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

Instrument :

MSVOA_D

ClientSampleId :

CARLSTADT-TOPSOIL-2020

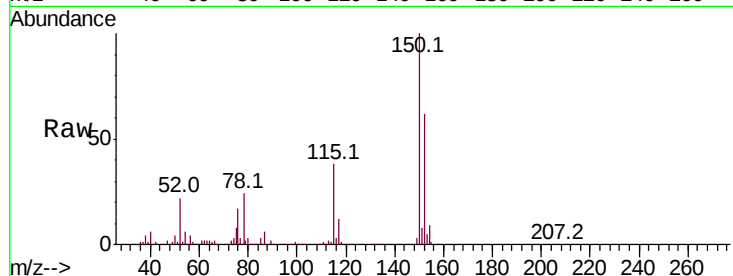
Tot Ion:152 Resp: 275584

Ion Ratio Lower Upper

152 100

115 62.5 30.5 91.5

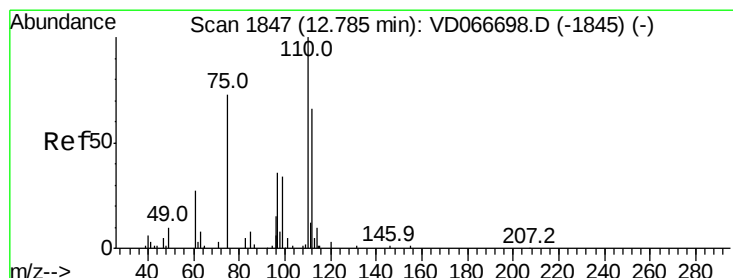
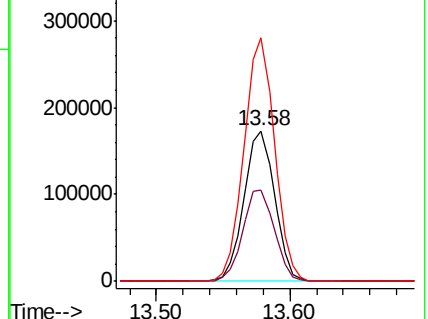
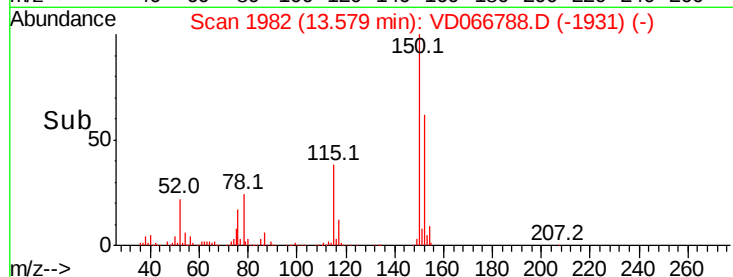
150 161.0 0.0 344.6



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



#76

1,2,3-Trichloropropane

Concen: 63.520 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066788.D

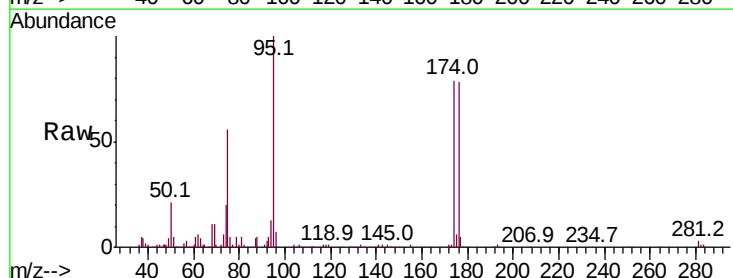
Acq: 21 Sep 2020 17:43

Tgt Ion: 75 Resp: 149836

Ion Ratio Lower Upper

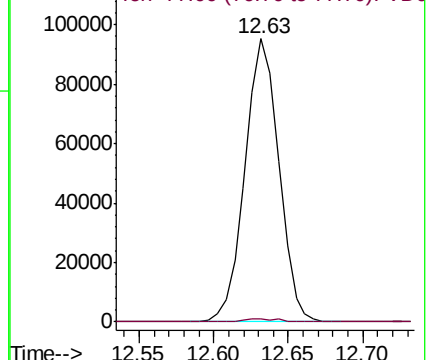
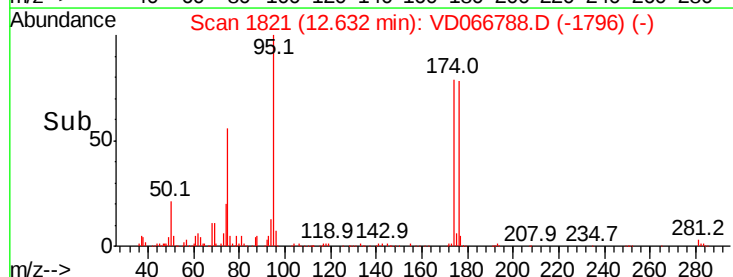
75 100

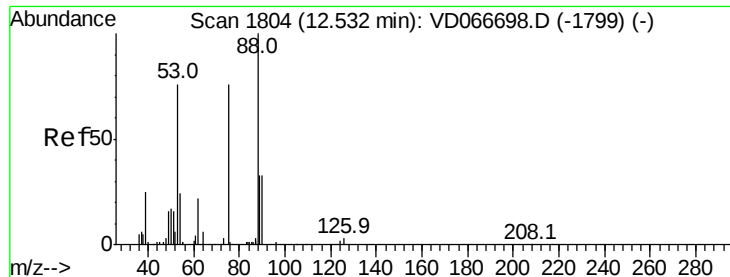
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 137.087 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066788.D

Acq: 21 Sep 2020 17:43

Instrument :

MSVOA_D

ClientSampleId :

CARLSTADT-TOPSOIL-2020

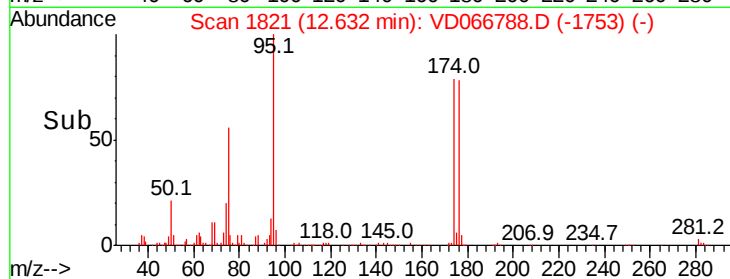
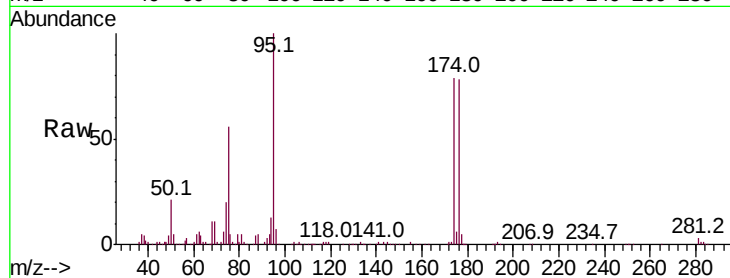
Tot Ion: 75 Resp: 149836

Ion Ratio Lower Upper

75 100

53 0.0 82.2 123.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

