

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091120\
 Data File : VD066655.D
 Acq On : 11 Sep 2020 18:19
 Operator : VA/SY
 Sample : L3981-06
 Misc : 13.09G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 12 00:41:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	364372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	645993	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	619339	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	243194	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	231496	52.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.02%	
35) Dibromofluoromethane	7.91	113	220481	50.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.18%	
50) Toluene-d8	10.34	98	805846	51.74	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	12.63	95	245769	47.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.18%	

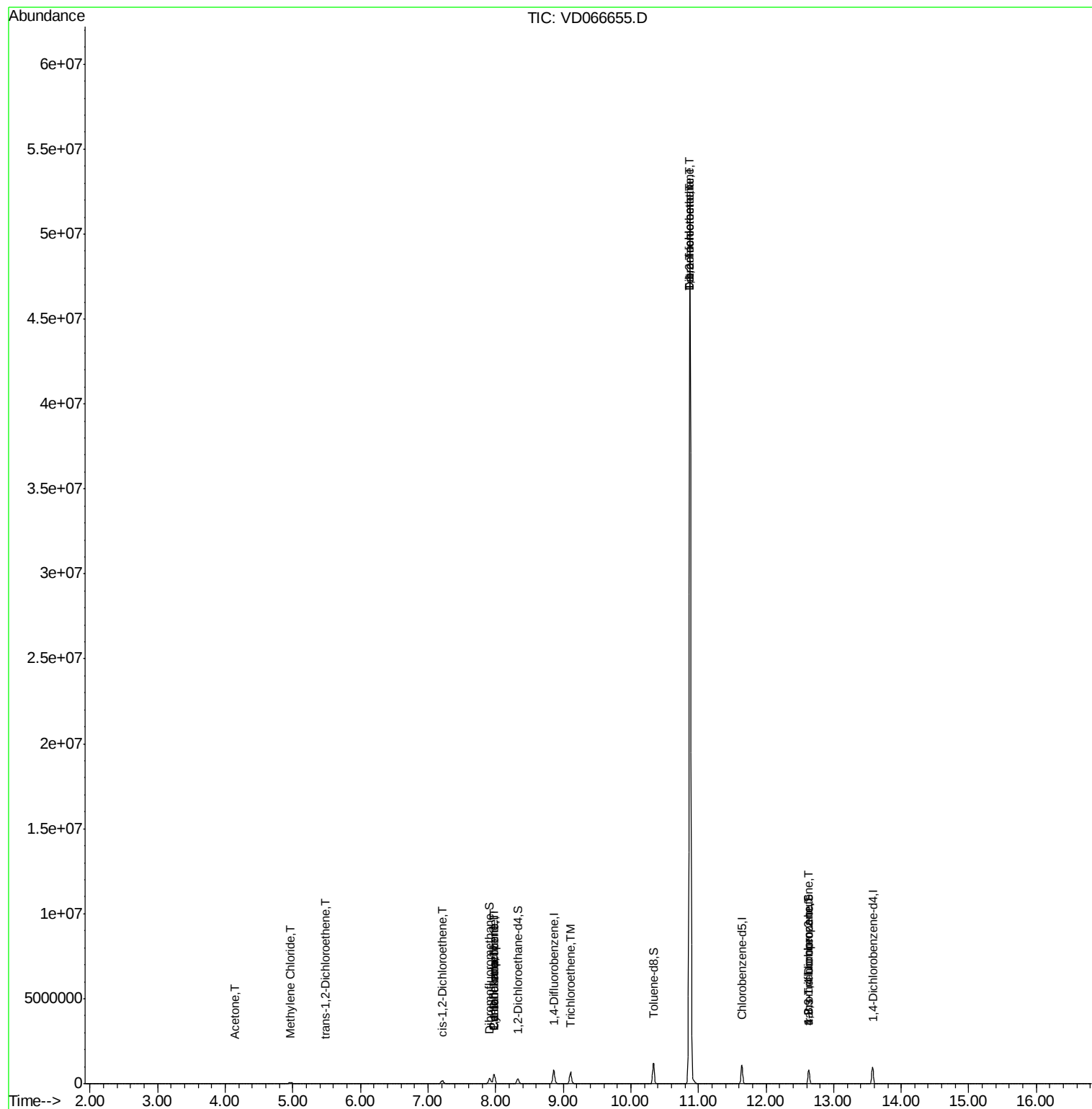
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.76	94	59	Below Cal	#	19
11) Tert butyl alcohol	5.20	59	70	Below Cal	#	74
16) Acetone	4.16	43	4267	5.260	ug/l #	56
20) Methylene Chloride	4.97	84	47676	4.802	ug/l	94
21) trans-1,2-Dichloroethene	5.47	96	4519	1.037	ug/l #	74
27) cis-1,2-Dichloroethene	7.21	96	102081	21.775	ug/l	88
31) Cyclohexane	7.98	56	11342	1.577	ug/l #	40
36) 1,1-Dichloropropene	7.97	75	35802	5.325	ug/l #	50
38) Carbon Tetrachloride	7.97	117	40927	5.760	ug/l #	17
44) Trichloroethene	9.11	130	246809	51.102	ug/l	96
55) 1,1,2-Trichloroethane	10.87	97	114867	34.971	ug/l #	3
60) Dibromochloromethane	10.87	129	11191292	2576.601	ug/l #	10
64) Tetrachloroethene	10.87	164	11483704	2753.865	ug/l	95
76) 1,2,3-Trichloropropane	12.63	75	135181	57.797	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	135181	134.937	ug/l #	7

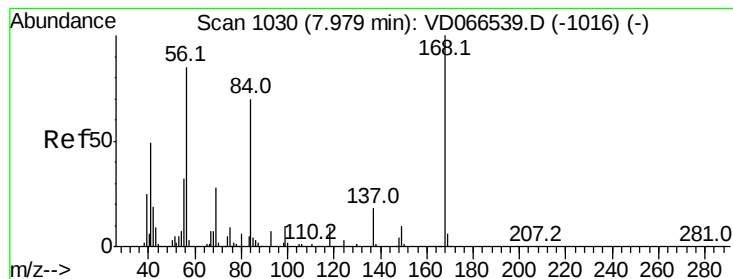
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066655.D

Acq: 11 Sep 2020 18:19

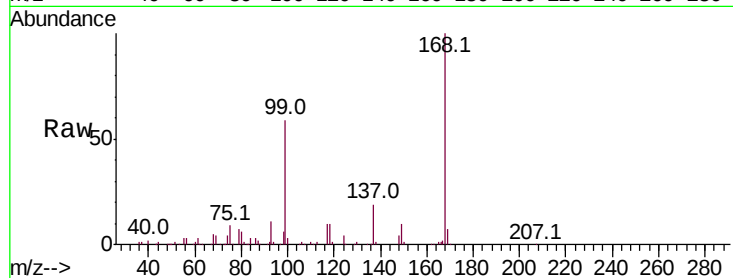
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 364372

Ion Ratio Lower Upper

168 100

99 59.2 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

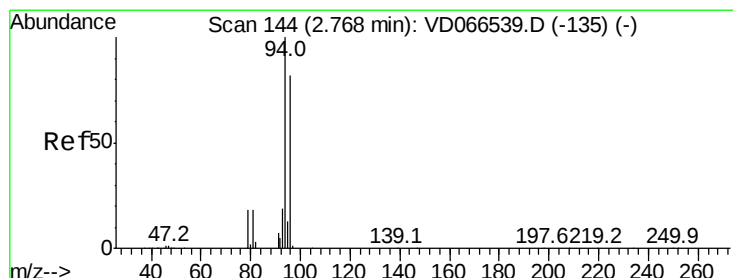
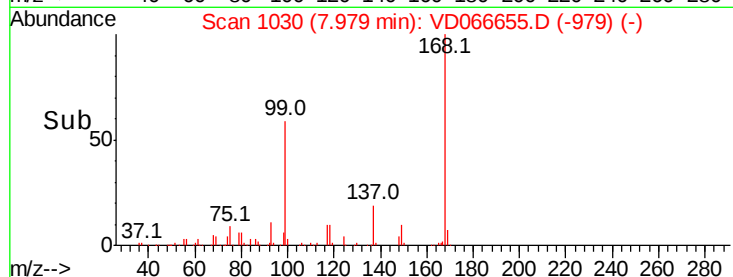
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD066655.D

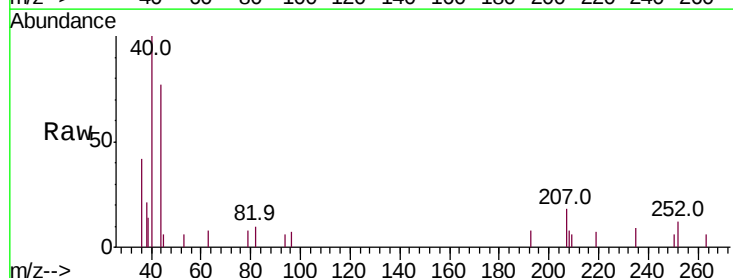
Acq: 11 Sep 2020 18:19

Tgt Ion: 94 Resp: 59

Ion Ratio Lower Upper

94 100

96 9.5 65.2 97.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

500

400

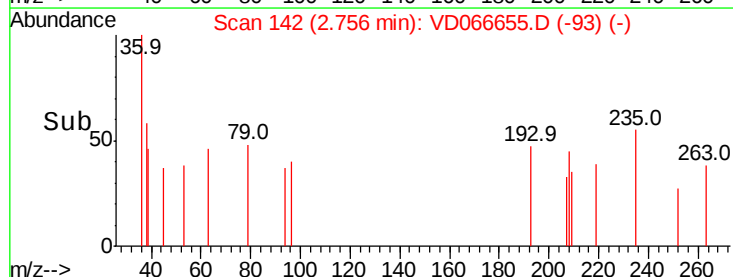
300

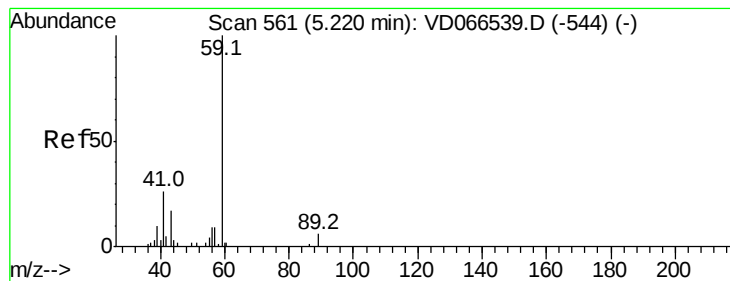
200

100

0

Time-->



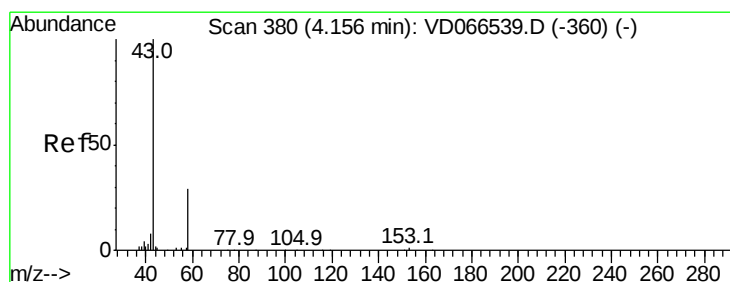
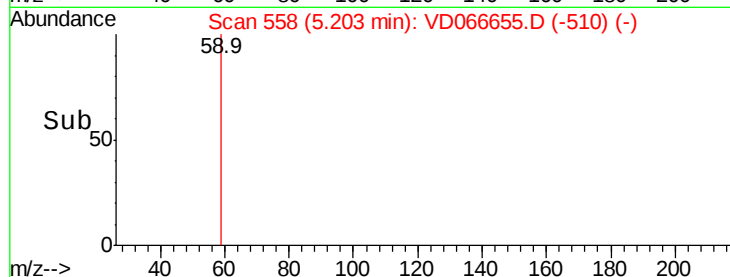
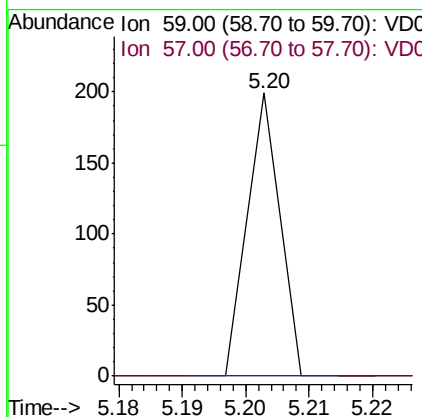
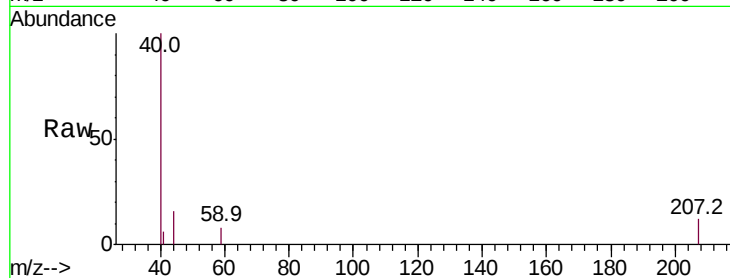


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.20 min Scan# 558
Delta R.T. -0.02 min
Lab File: VD066655.D
Acq: 11 Sep 2020 18:19

Instrument :
MSVOA_D
ClientSampleId :

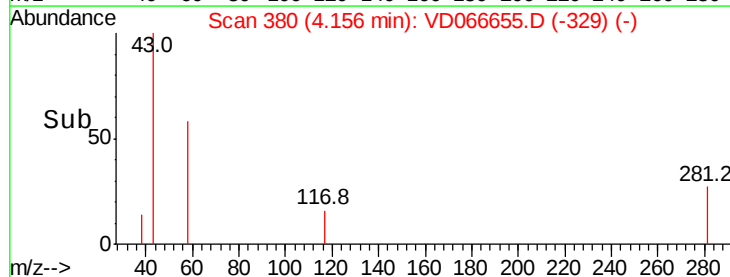
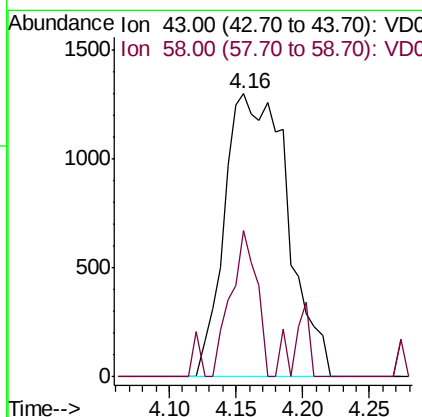
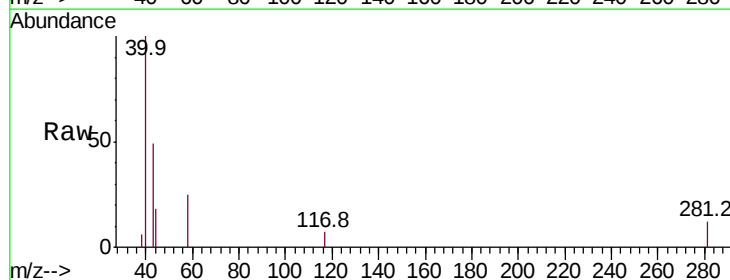
Tot Ion: 59 Resp: 70
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#

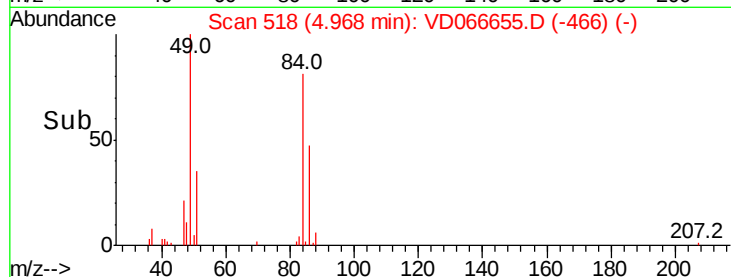
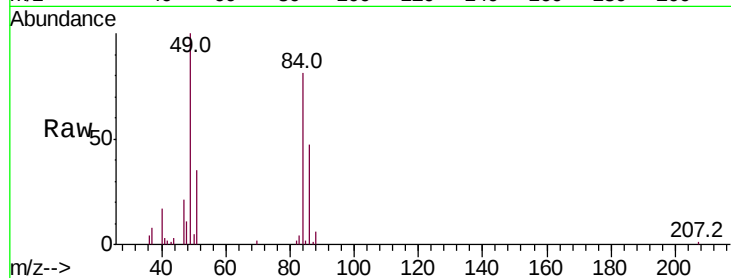
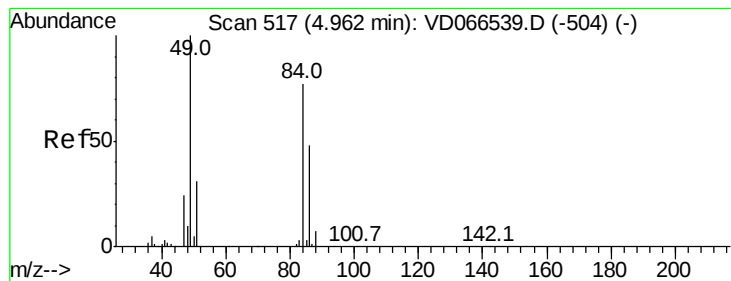


#16

Acetone
Concen: 5.260 ug/l
RT: 4.16 min Scan# 380
Delta R.T. 0.00 min
Lab File: VD066655.D
Acq: 11 Sep 2020 18:19

Tgt Ion: 43 Resp: 4267
Ion Ratio Lower Upper
43 100
58 51.7 22.9 34.3#





#20

Methylene Chloride

Concen: 4.802 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 47676

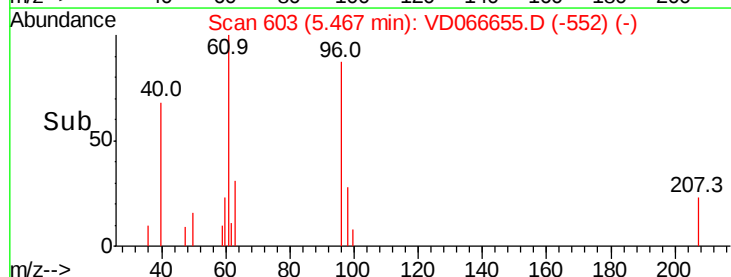
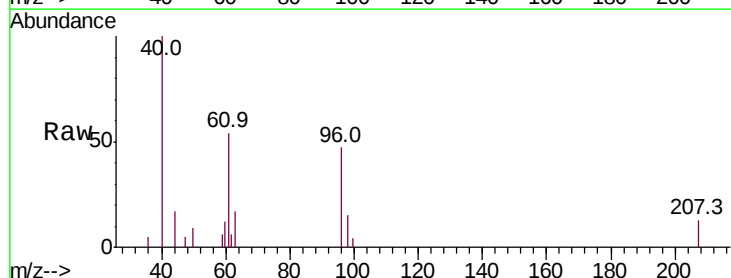
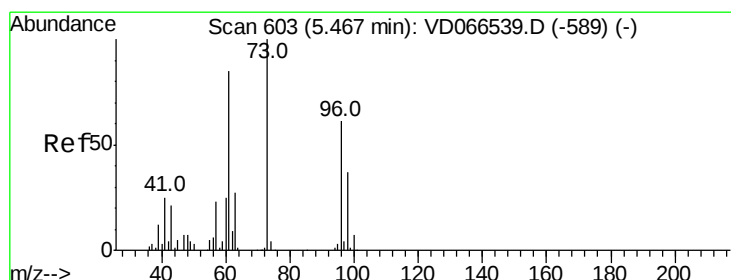
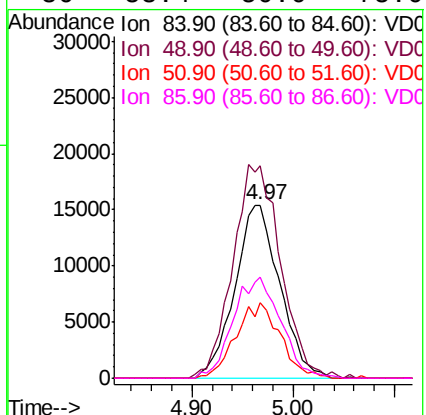
Ion Ratio Lower Upper

84 100

49 123.0 104.3 156.5

51 43.4 32.2 48.4

86 58.4 50.0 75.0



#21

trans-1,2-Dichloroethene

Concen: 1.037 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

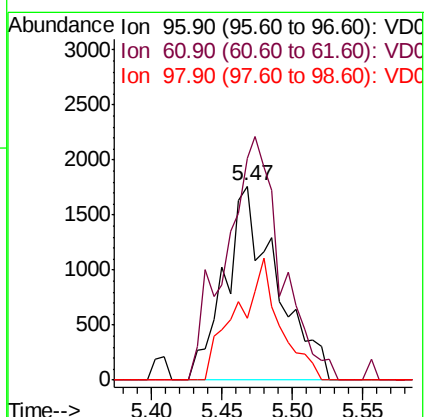
Tgt Ion: 96 Resp: 4519

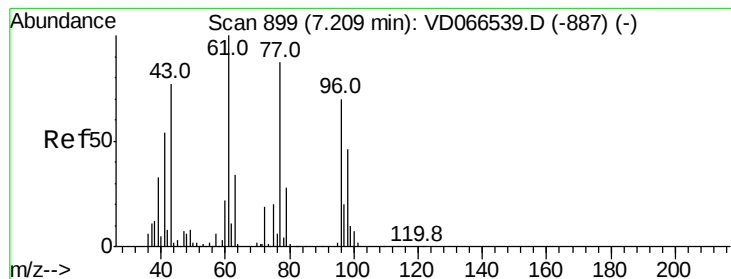
Ion Ratio Lower Upper

96 100

61 114.7 112.1 168.1

98 32.1 48.6 72.8#



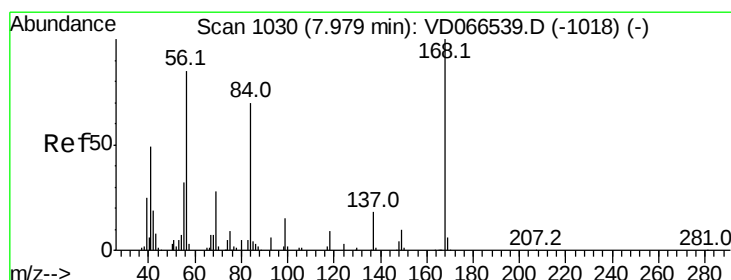
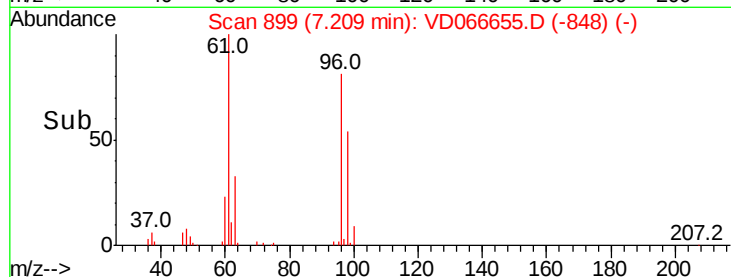
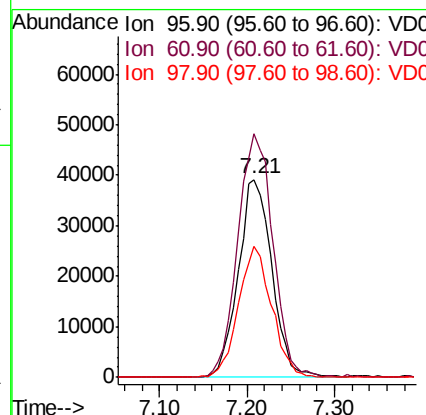
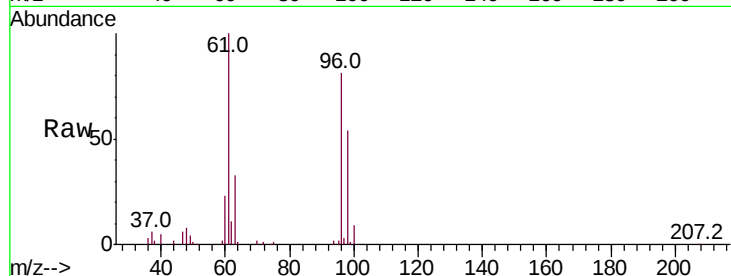


#27

cis-1,2-Dichloroethene
Concen: 21.775 ug/l
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD066655.D
Acq: 11 Sep 2020 18:19

Instrument :
MSVOA_D
ClientSampleId :

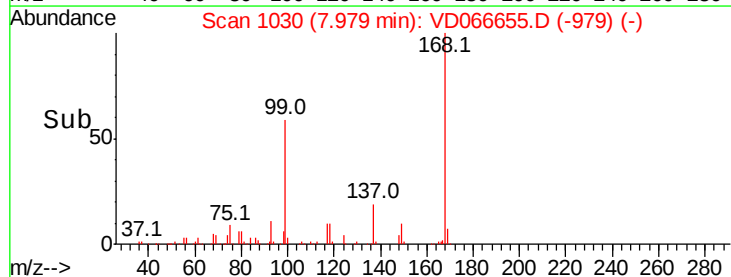
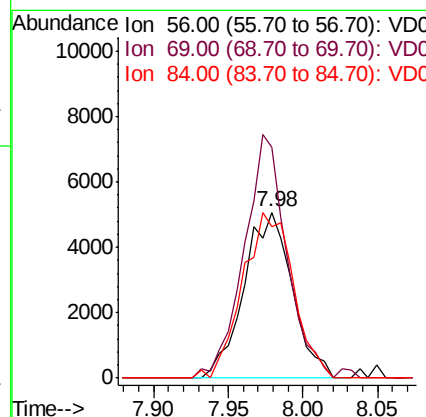
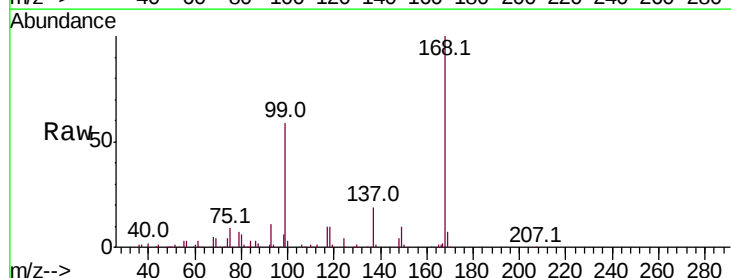
Tot Ion	96	Resp	102081
Ion	Ratio	Lower	Upper
96	100		
61	128.8	0.0	301.0
98	65.2	0.0	129.8

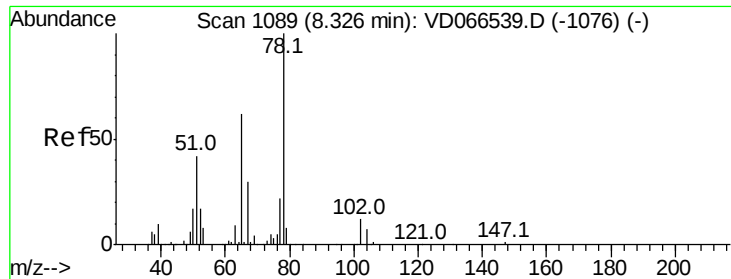


#31

Cyclohexane
Concen: 1.577 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VD066655.D
Acq: 11 Sep 2020 18:19

Tgt Ion	56	Resp	11342
Ion	Ratio	Lower	Upper
56	100		
69	138.8	26.3	39.5#
84	91.0	66.1	99.1





#33

1,2-Dichloroethane-d4

Concen: 52.511 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. 0.00 min

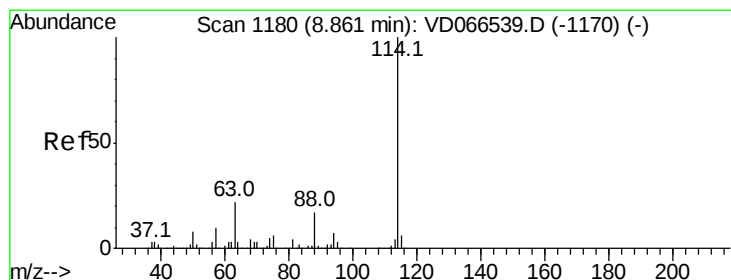
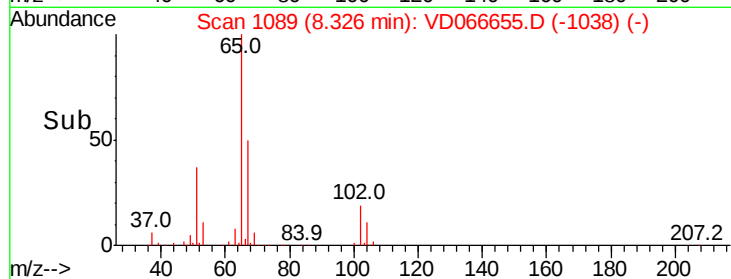
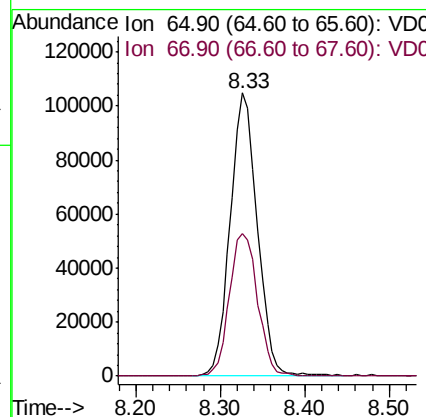
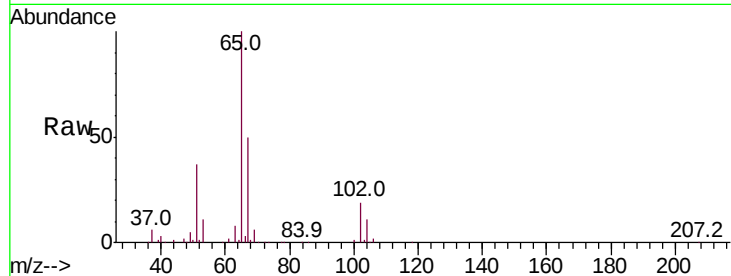
Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 231496

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

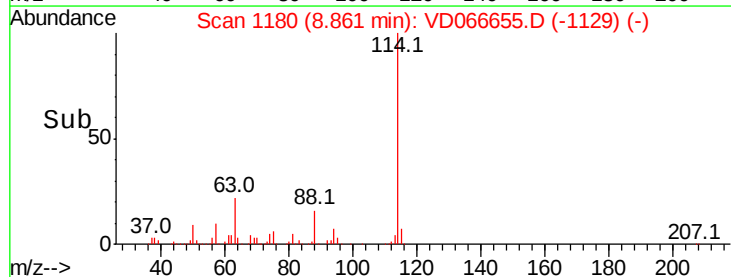
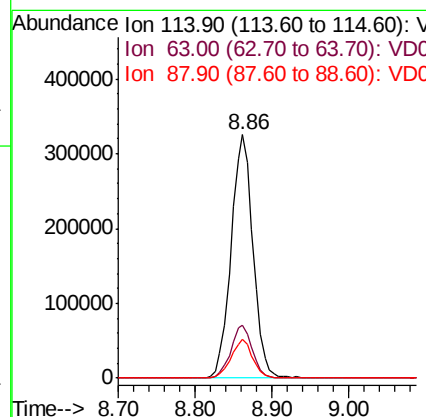
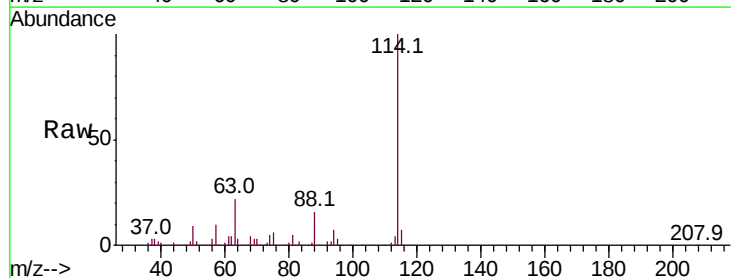
Delta R.T. 0.00 min

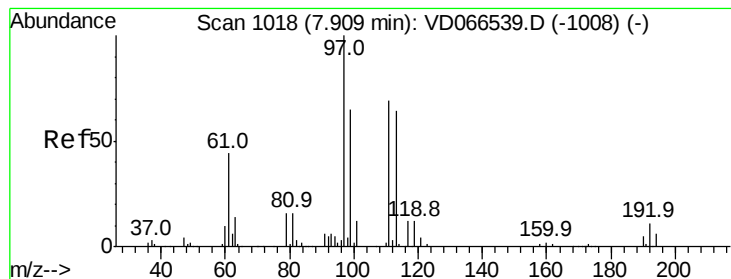
Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Tgt Ion: 114 Resp: 645993

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.2
88	15.8	0.0	33.2





#35

Dibromofluoromethane

Concen: 50.593 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Instrument :
MSVOA_D
ClientSampleId :

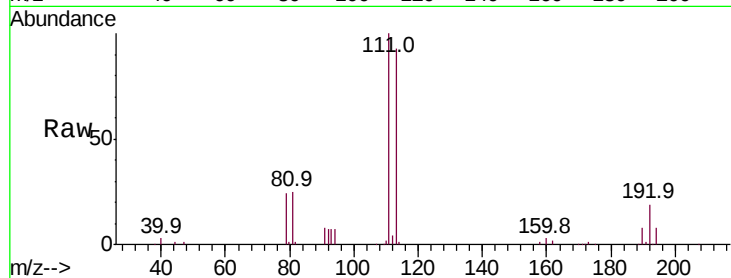
Tot Ion:113 Resp: 220481

Ion Ratio Lower Upper

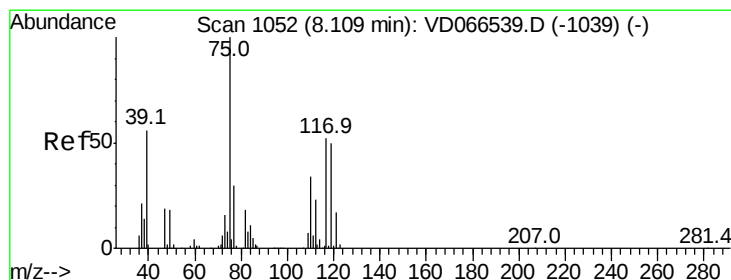
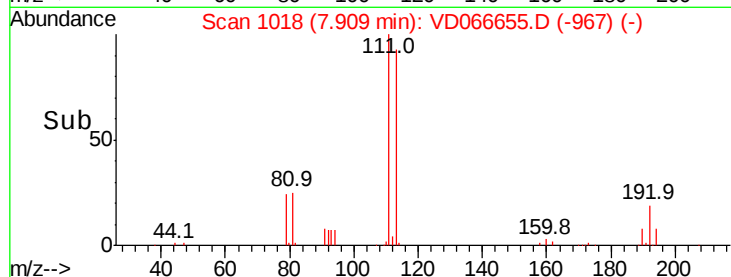
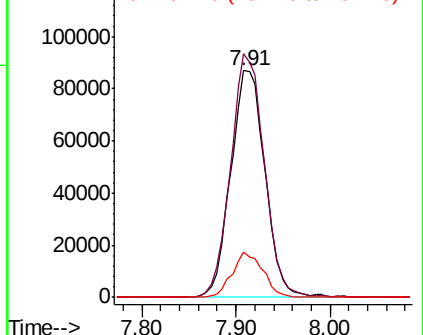
113 100

111 105.6 83.2 124.8

192 17.9 13.7 20.5



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: 5.325 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

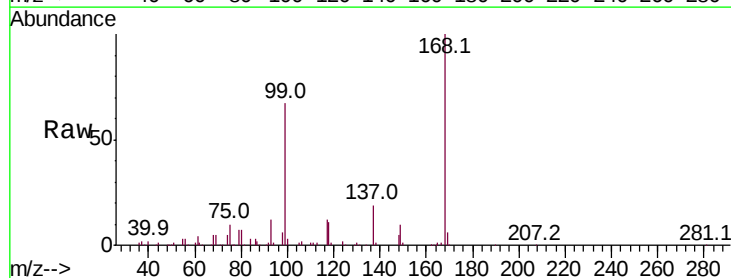
Tgt Ion: 75 Resp: 35802

Ion Ratio Lower Upper

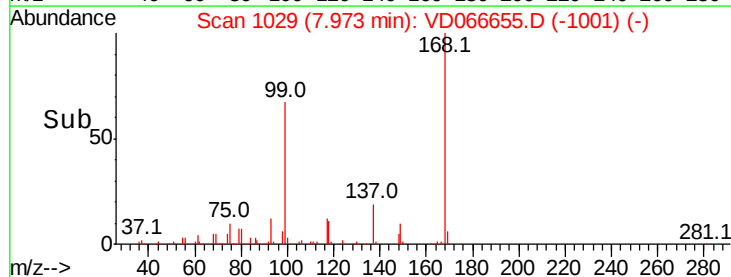
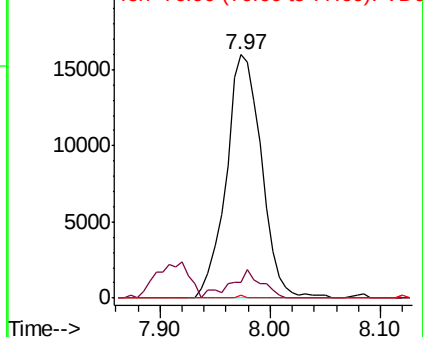
75 100

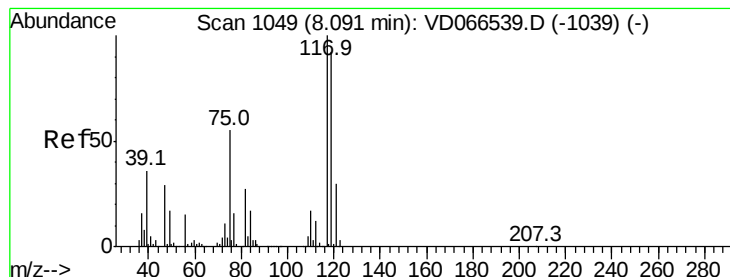
110 9.0 17.3 52.0#

77 0.2 25.1 37.7#



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





#38

Carbon Tetrachloride

Concen: 5.760 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Instrument :

MSVOA_D

ClientSampleId :

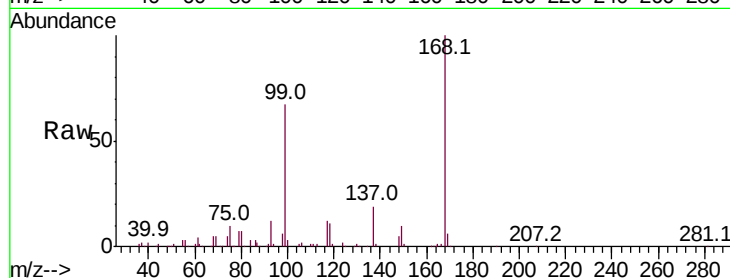
Tot Ion:117 Resp: 40927

Ion Ratio Lower Upper

117 100

119 5.0 73.9 110.9#

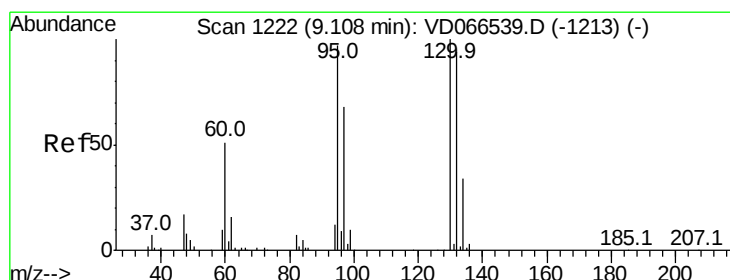
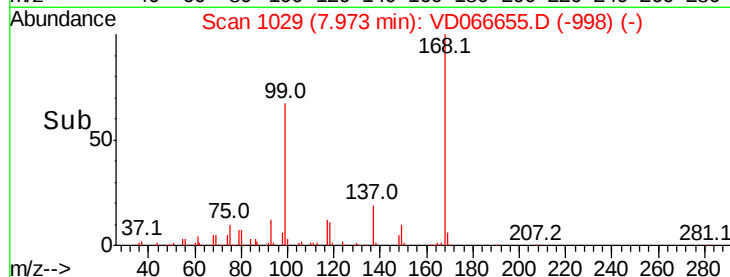
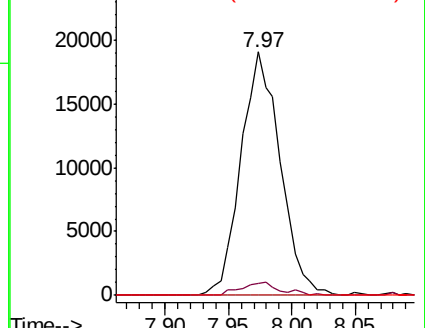
121 0.0 24.1 36.1#



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



#44

Trichloroethene

Concen: 51.102 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. 0.00 min

Lab File: VD066655.D

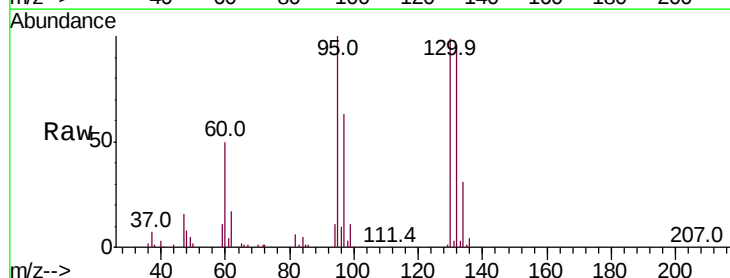
Acq: 11 Sep 2020 18:19

Tgt Ion:130 Resp: 246809

Ion Ratio Lower Upper

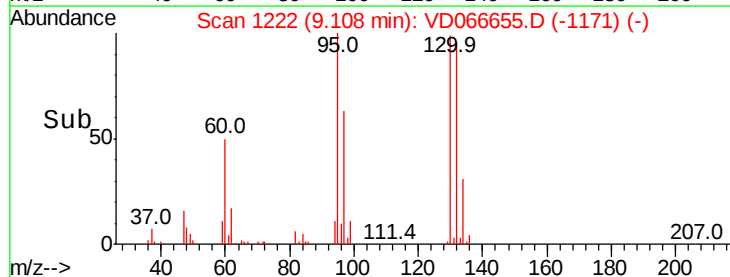
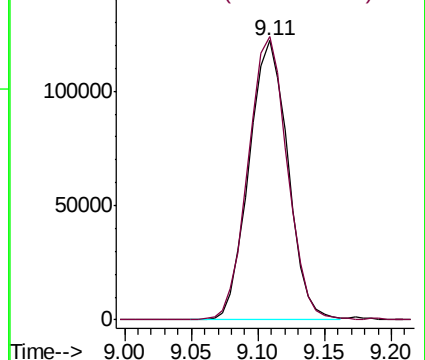
130 100

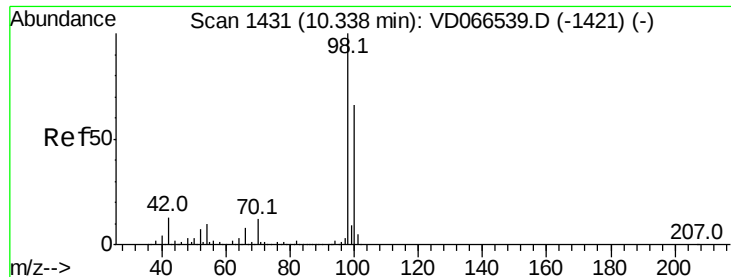
95 101.4 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 51.737 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Instrument :

MSVOA_D

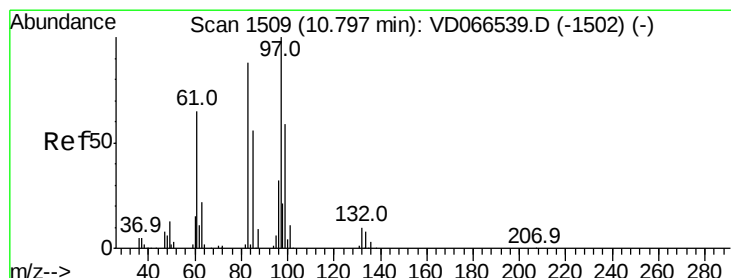
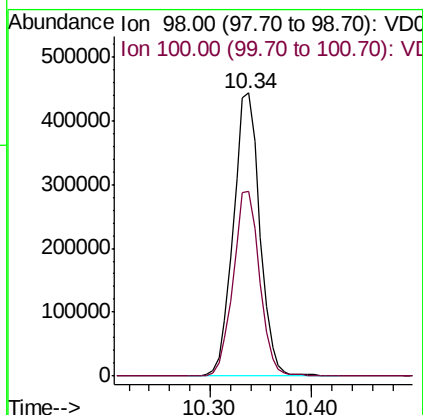
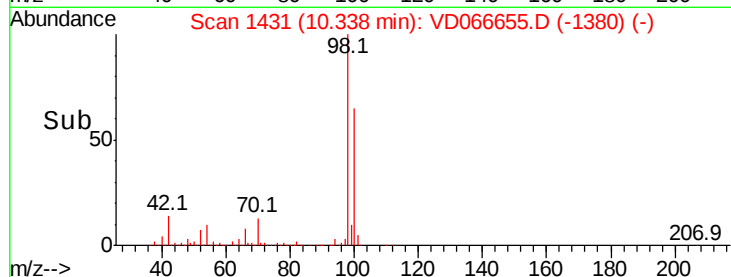
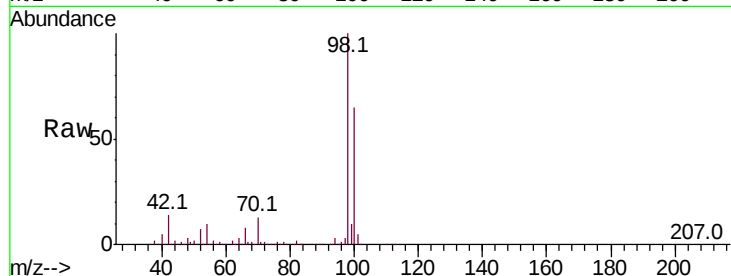
ClientSampleId :

Tot Ion: 98 Resp: 805846

Ion Ratio Lower Upper

98 100

100 64.9 52.9 79.3



#55

1,1,2-Trichloroethane

Concen: 34.971 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. 0.08 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Tgt Ion: 97 Resp: 114867

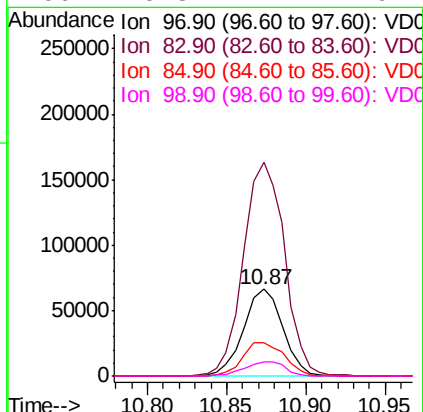
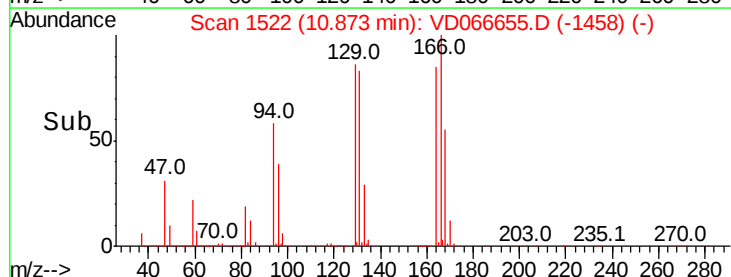
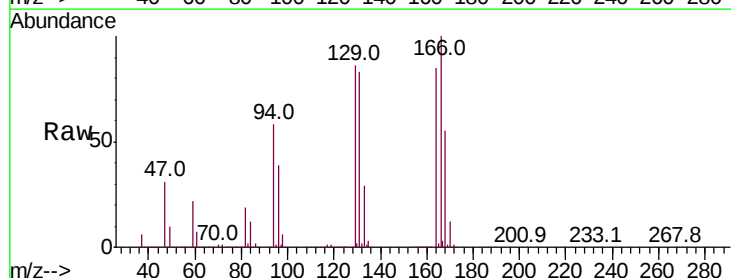
Ion Ratio Lower Upper

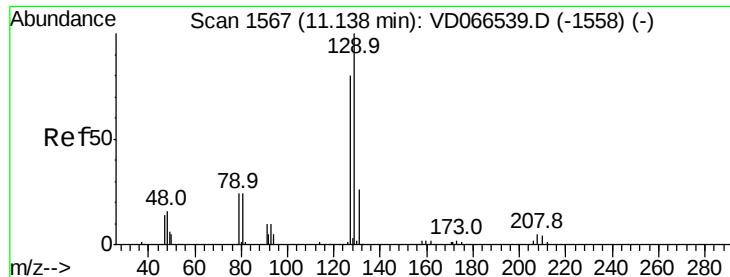
97 100

83 246.8 70.1 105.1#

85 38.9 44.5 66.7#

99 16.8 47.1 70.7#





#60

Dibromochloromethane

Concen: 2576.601 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.26 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Instrument :

MSVOA_D

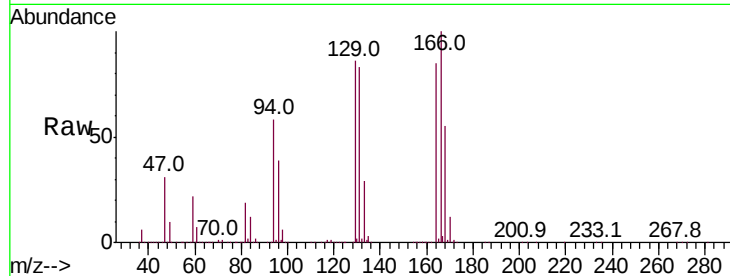
ClientSampled :

Tot Ion:129 Resp:11191292

Ion Ratio Lower Upper

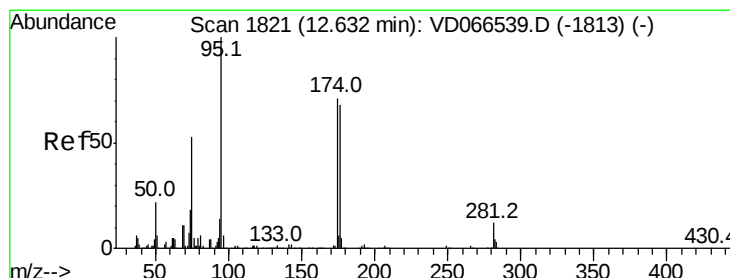
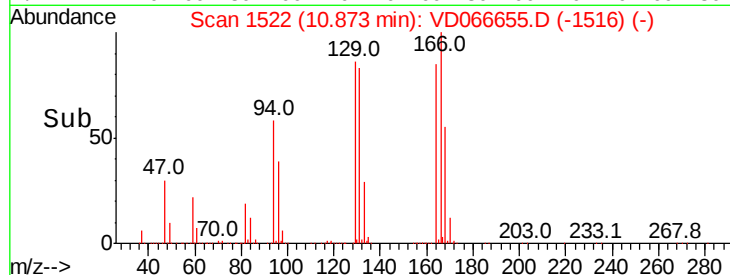
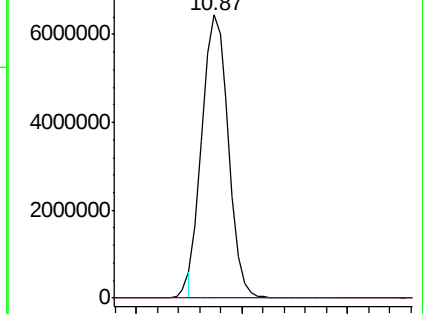
129 100

127 0.0 39.5 118.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.585 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

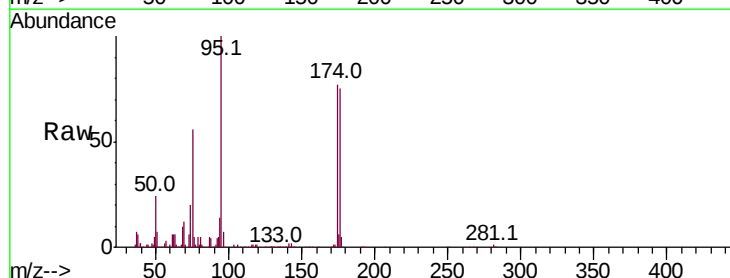
Tgt Ion: 95 Resp: 245769

Ion Ratio Lower Upper

95 100

174 77.7 0.0 155.8

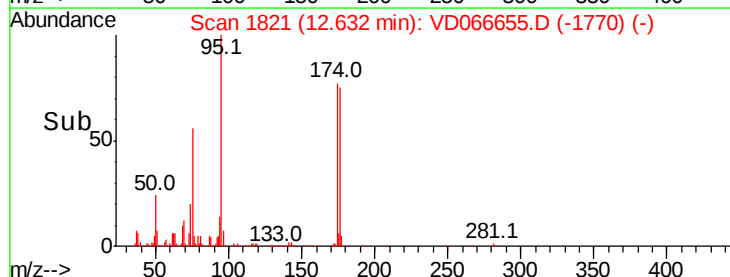
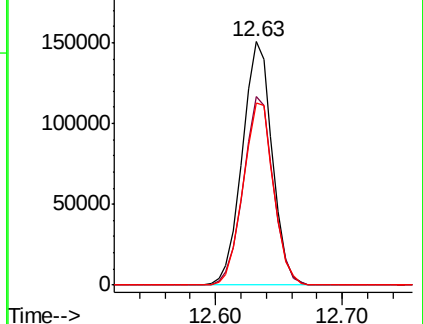
176 76.2 0.0 148.6

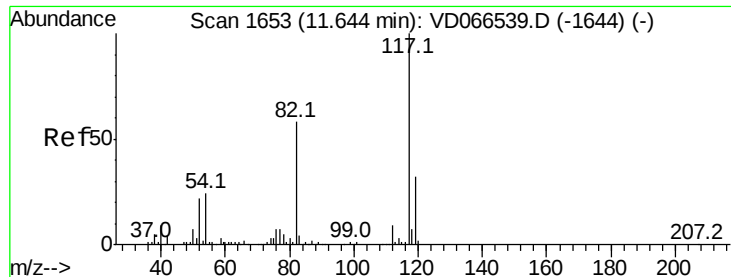


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

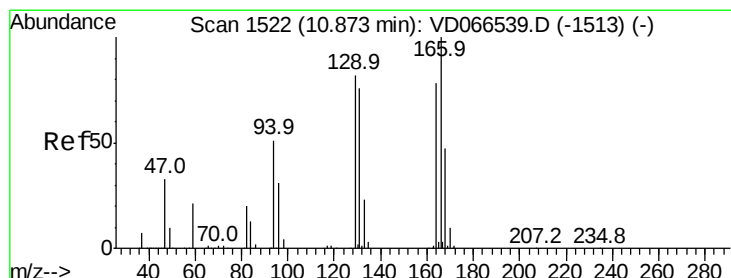
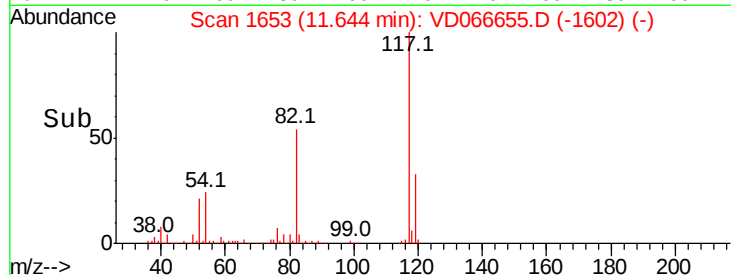
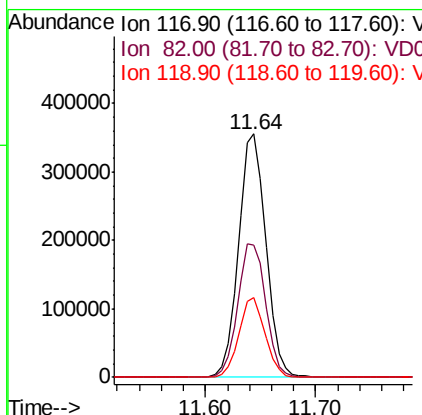
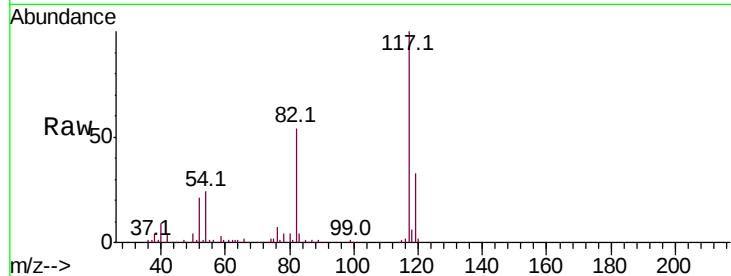




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066655.D
Acq: 11 Sep 2020 18:19

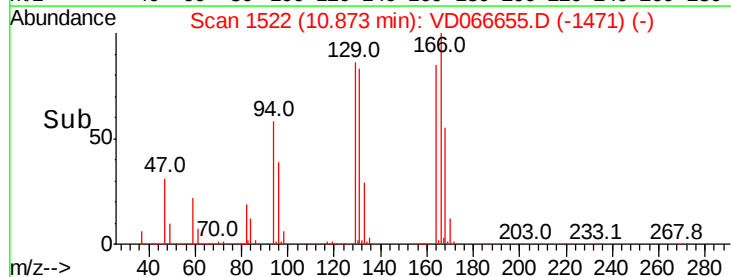
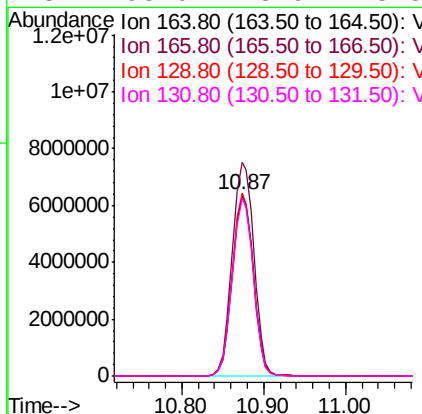
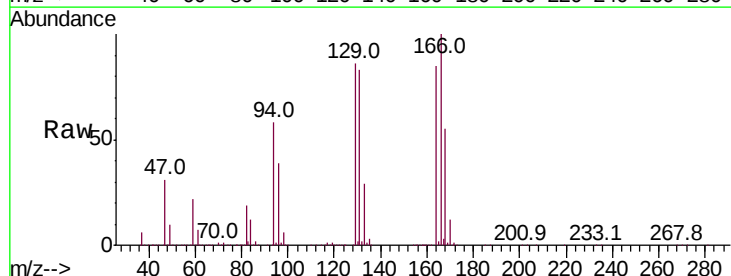
Instrument :
MSVOA_D
ClientSampleId :

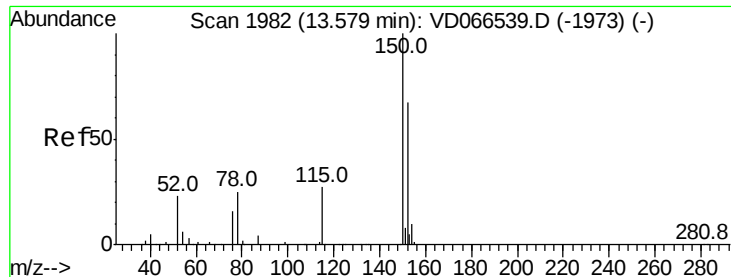
Tot Ion:117 Resp: 619339
Ion Ratio Lower Upper
117 100
82 54.1 46.2 69.2
119 33.0 25.8 38.8



#64
Tetrachloroethene
Concen: 2753.865 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. 0.00 min
Lab File: VD066655.D
Acq: 11 Sep 2020 18:19

Tgt Ion:164 Resp:11483704
Ion Ratio Lower Upper
164 100
166 118.0 103.2 154.8
129 101.1 84.5 126.7
131 98.0 78.9 118.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066655.D

Acq: 11 Sep 2020 18:19

Instrument :

MSVOA_D

ClientSampleId :

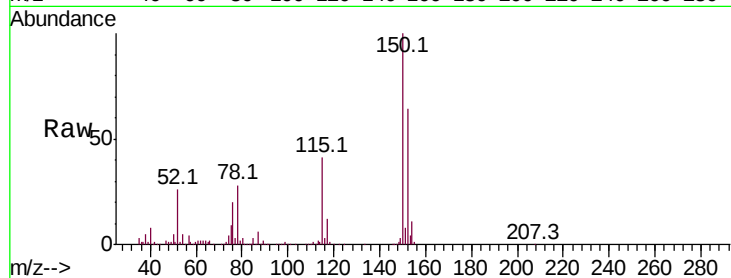
Tot Ion:152 Resp: 243194

Ion Ratio Lower Upper

152 100

115 62.6 30.4 91.2

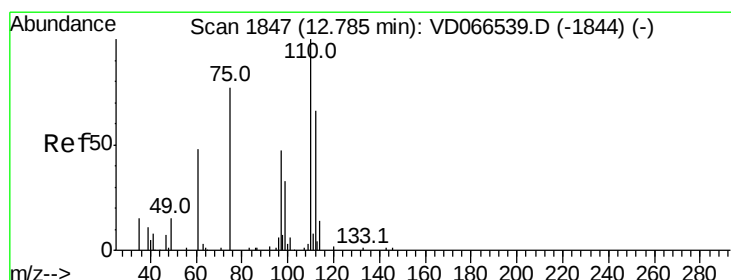
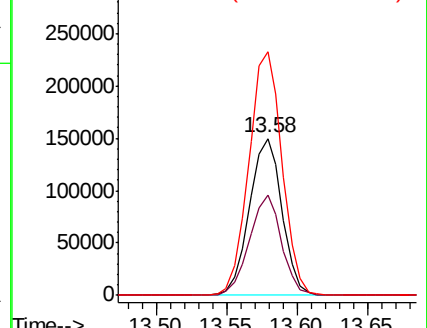
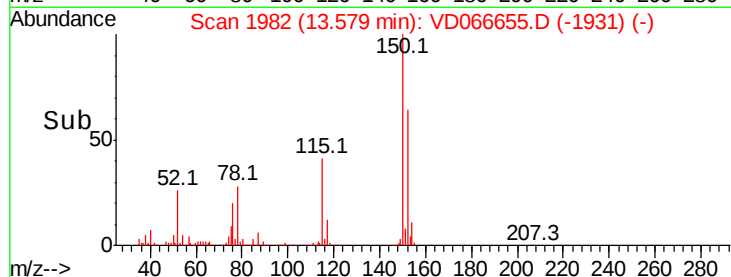
150 157.3 0.0 345.8



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: 57.797 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066655.D

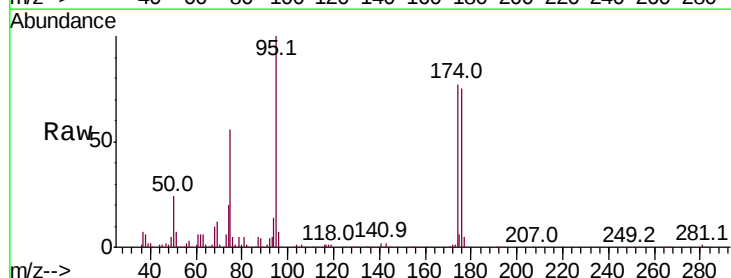
Acq: 11 Sep 2020 18:19

Tgt Ion: 75 Resp: 135181

Ion Ratio Lower Upper

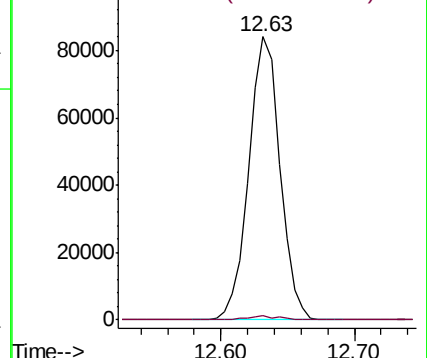
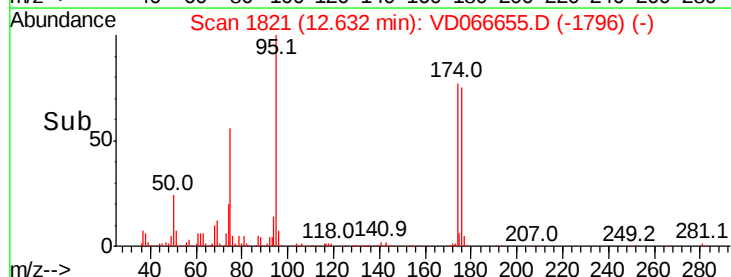
75 100

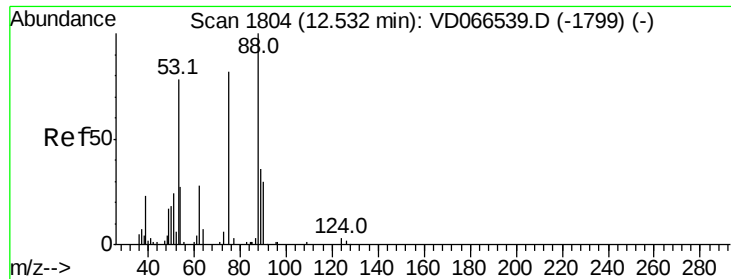
77 1.3 0.0 0.0#



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: 134.937 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.10 min
Lab File: VD066655.D
Acq: 11 Sep 2020 18:19

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 135181
Ion Ratio Lower Upper
75 100
53 0.1 87.0 130.4#
89 0.0 37.1 55.7#

