

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091120\
 Data File : VD066654.D
 Acq On : 11 Sep 2020 17:52
 Operator : VA/SY
 Sample : L3981-05
 Misc : 10.71G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 12 00:41:17 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	371117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	654381	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	601586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	225096	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	238490	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	
35) Dibromofluoromethane	7.91	113	222114	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
50) Toluene-d8	10.34	98	794315	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	12.63	95	239071	45.70	ug/l	0.00
Spiked Amount			Recovery	=	91.40%	

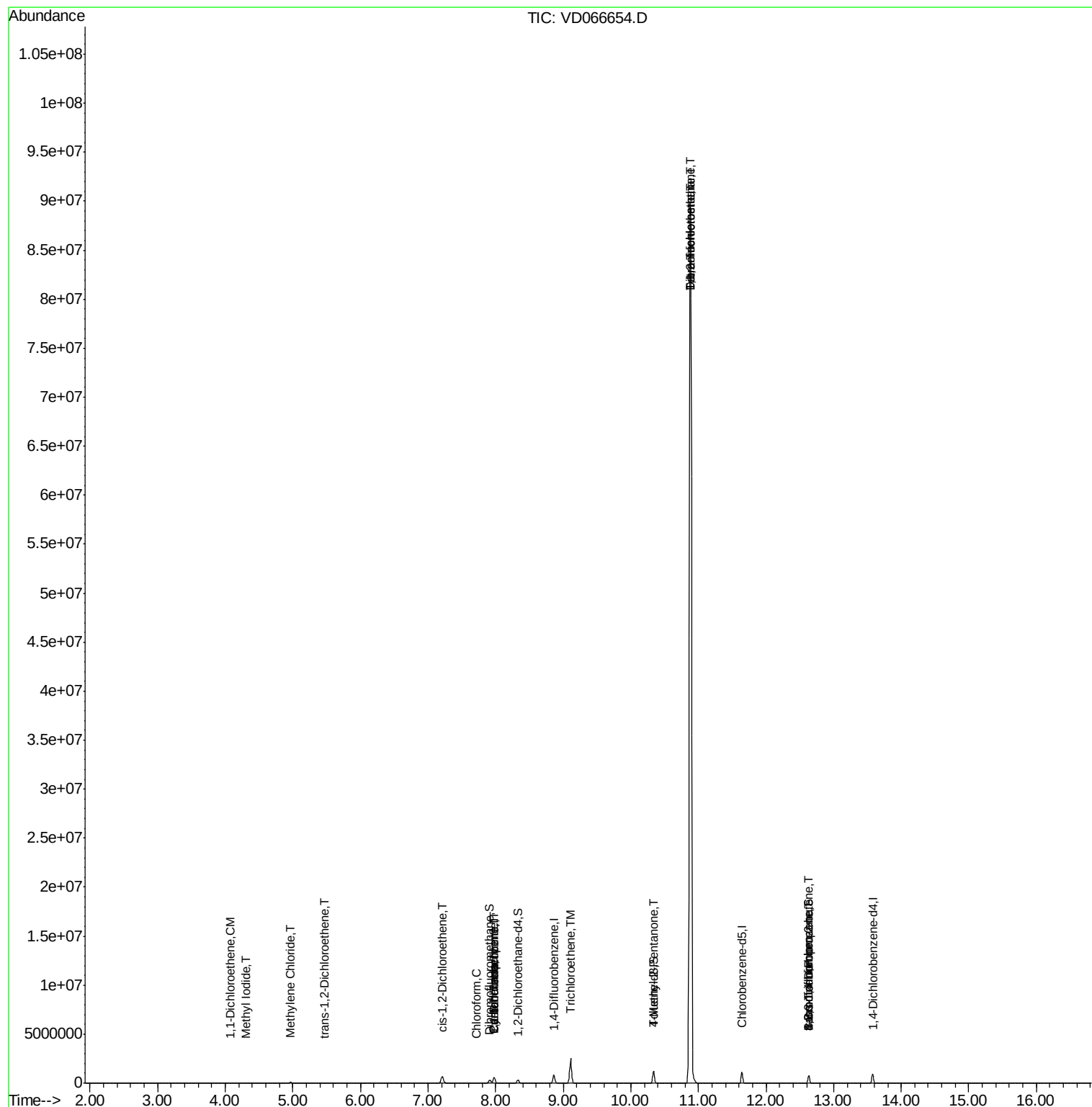
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.78	94	364	Below Cal		98
10) Methyl Iodide	4.30	142	65	4.039	ug/l #	35
11) Tert butyl alcohol	5.39	59	62	Below Cal	#	74
12) 1,1-Dichloroethene	4.07	96	3858	1.032	ug/l #	71
20) Methylene Chloride	4.96	84	39894	2.584	ug/l #	91
21) trans-1,2-Dichloroethene	5.47	96	6016	1.355	ug/l #	84
27) cis-1,2-Dichloroethene	7.21	96	386976	81.046	ug/l	89
30) Chloroform	7.71	83	11431	1.364	ug/l	94
31) Cyclohexane	7.98	56	10913	1.490	ug/l #	12
36) 1,1-Dichloropropene	7.98	75	34497	5.066	ug/l #	49
38) Carbon Tetrachloride	7.98	117	43437	6.034	ug/l #	18
44) Trichloroethene	9.11	130	888633	181.634	ug/l	96
51) 4-Methyl-2-Pentanone	10.33	43	3967	1.514	ug/l #	1
55) 1,1,2-Trichloroethane	10.87	97	305728	91.886	ug/l #	39
60) Dibromochloromethane	10.87	129	22467890	5106.535	ug/l #	10
64) Tetrachloroethene	10.87	164	22811581	5631.793	ug/l #	88
71) Bromoform	12.63	173	2794	1.170	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	136402	63.008	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	136402	147.103	ug/l #	7

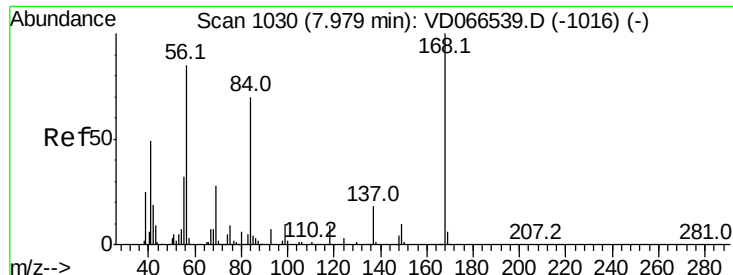
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066654.D

Acq: 11 Sep 2020 17:52

Instrument :

MSVOA_D

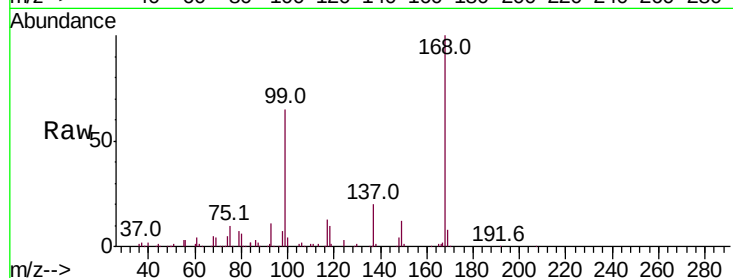
ClientSampleId :

Tot Ion:168 Resp: 371117

Ion Ratio Lower Upper

168 100

99 65.1 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

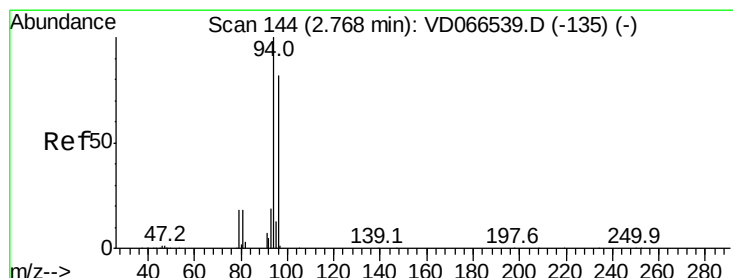
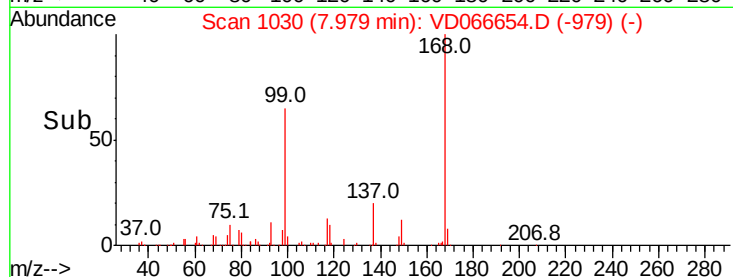
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD066654.D

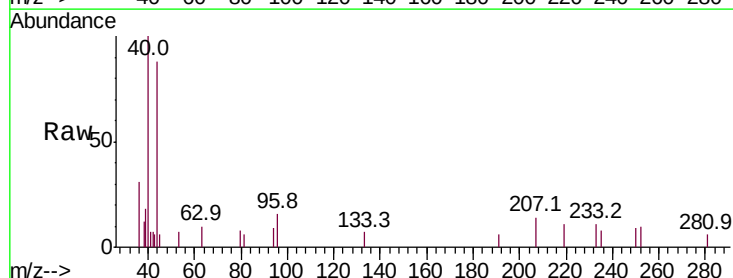
Acq: 11 Sep 2020 17:52

Tgt Ion: 94 Resp: 364

Ion Ratio Lower Upper

94 100

96 82.9 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

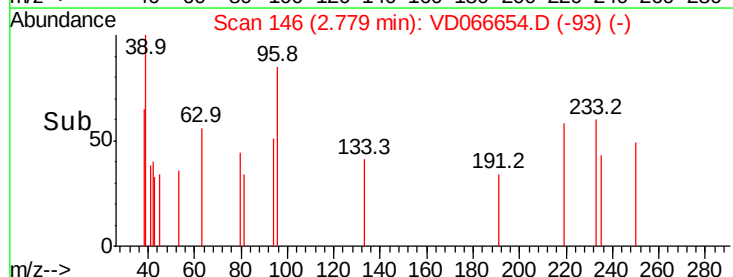
300

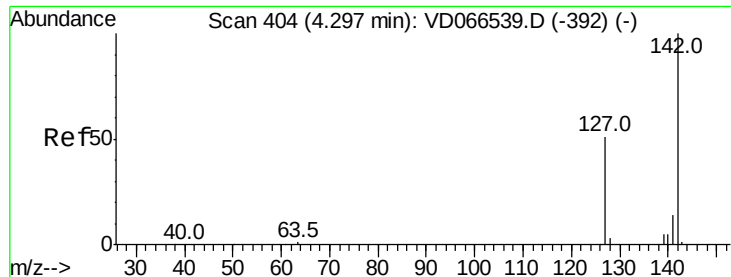
200

100

0

Time-->

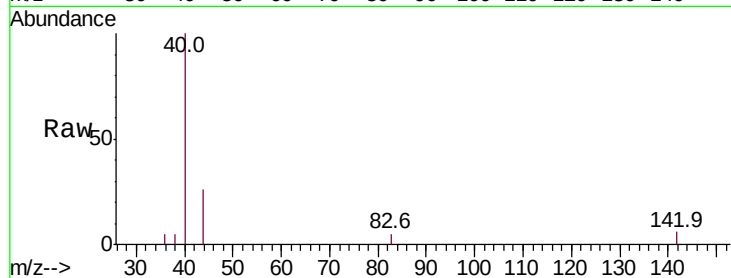




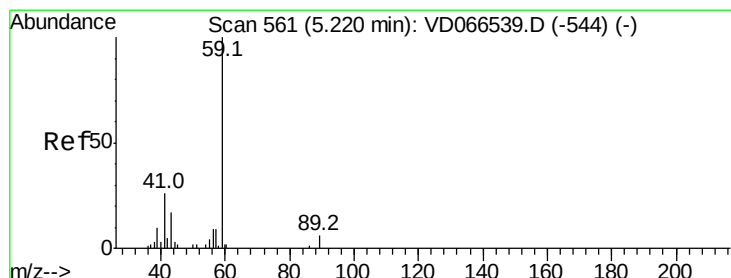
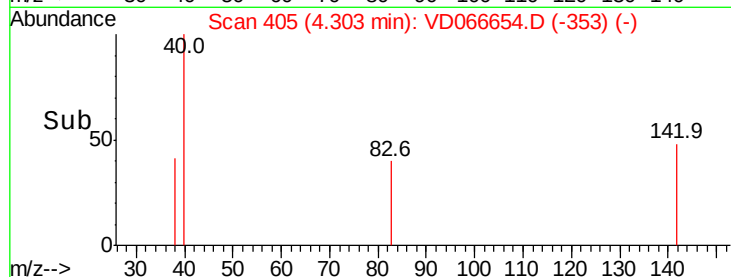
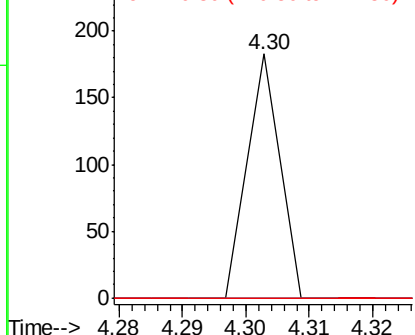
#10
Methyl Iodide
Concen: 4.039 ug/l
RT: 4.30 min Scan# 405
Delta R.T. 0.01 min
Lab File: VD066654.D
Acq: 11 Sep 2020 17:52

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:142 Resp: 65
Ion Ratio Lower Upper
142 100
127 0.0 40.6 61.0#
141 0.0 12.2 18.4#

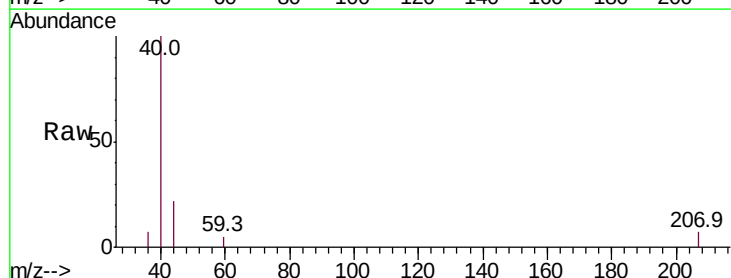


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

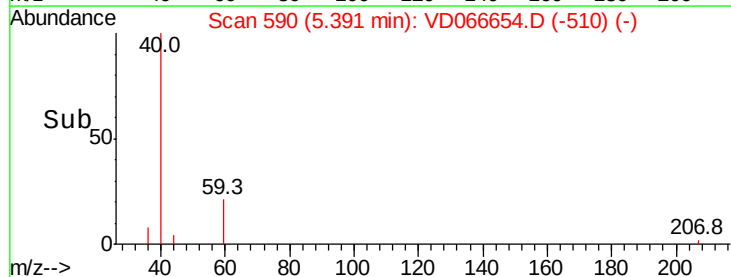
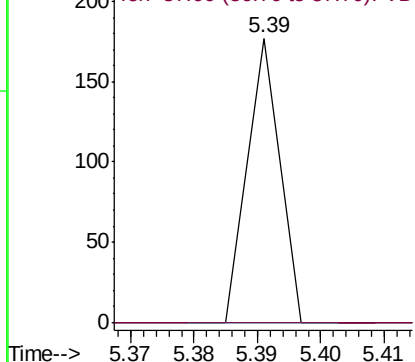


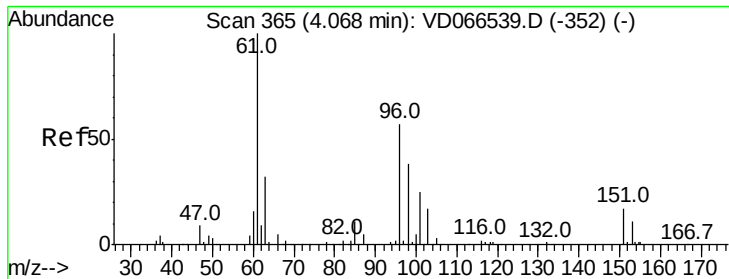
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.39 min Scan# 590
Delta R.T. 0.17 min
Lab File: VD066654.D
Acq: 11 Sep 2020 17:52

Tgt Ion: 59 Resp: 62
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): V
Ion 57.00 (56.70 to 57.70): V





#12

1,1-Dichloroethene

Concen: 1.032 ug/l

RT: 4.07 min Scan# 366

Delta R.T. 0.01 min

Lab File: VD066654.D

Acq: 11 Sep 2020 17:52

Instrument :

MSVOA_D

ClientSampleId :

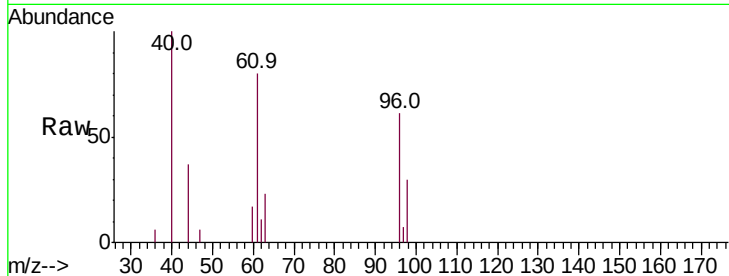
Tot Ion: 96 Resp: 3858

Ion Ratio Lower Upper

96 100

61 131.9 140.9 211.3#

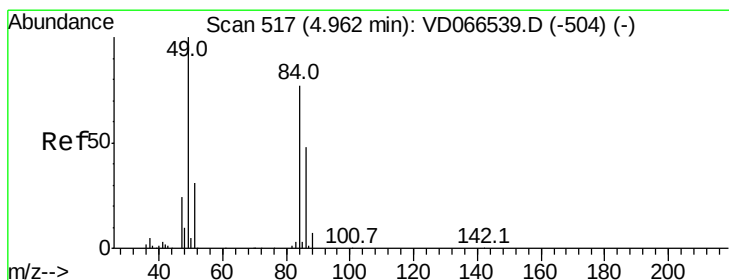
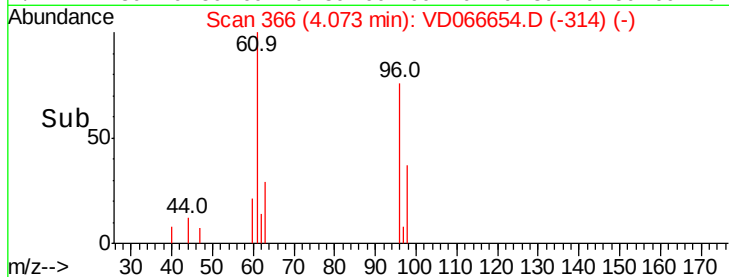
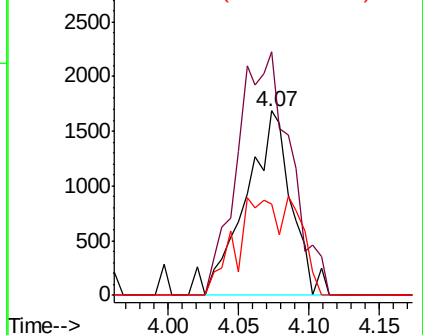
98 49.1 53.2 79.8#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#20

Methylene Chloride

Concen: 2.584 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD066654.D

Acq: 11 Sep 2020 17:52

Tgt Ion: 84 Resp: 39894

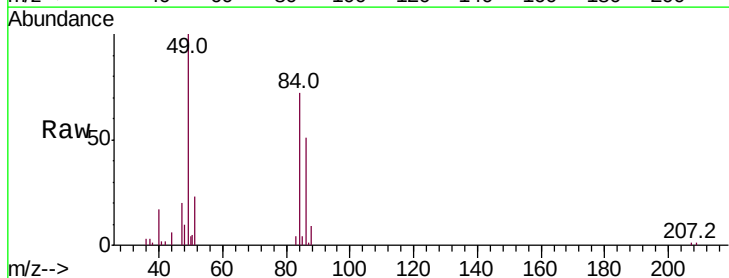
Ion Ratio Lower Upper

84 100

49 138.9 104.3 156.5

51 32.1 32.2 48.4#

86 71.5 50.0 75.0

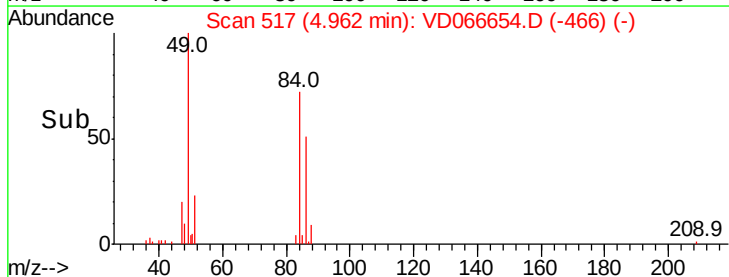
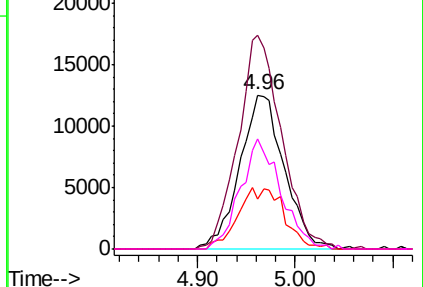


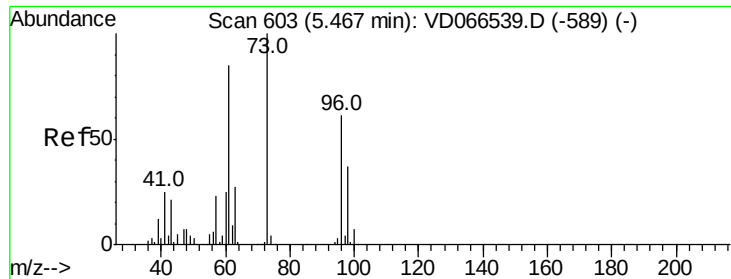
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 1.355 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.00 min

Lab File: VD066654.D

Acq: 11 Sep 2020 17:52

Instrument :

MSVOA_D

ClientSampled :

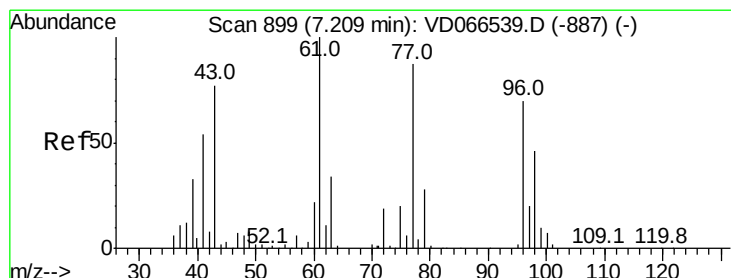
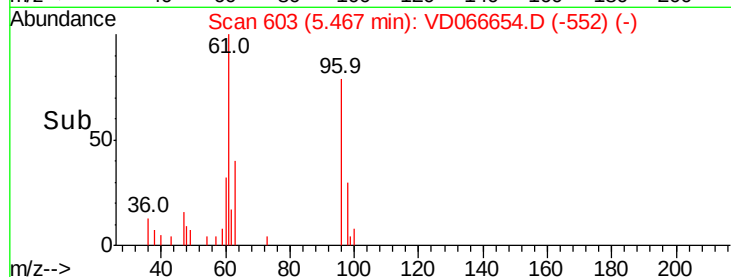
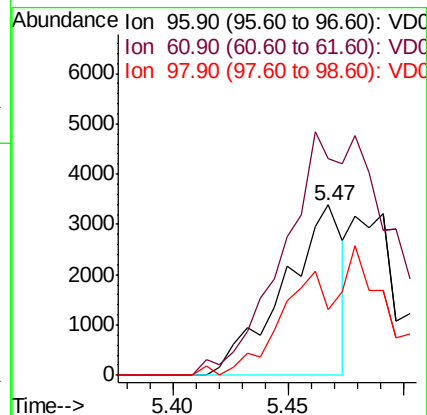
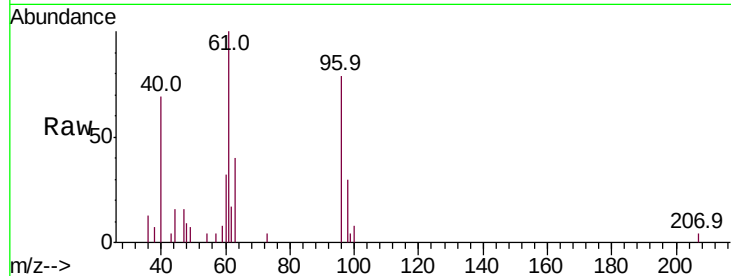
Tot Ion: 96 Resp: 6016

Ion Ratio Lower Upper

96 100

61 127.2 112.1 168.1

98 38.7 48.6 72.8#



#27

cis-1,2-Dichloroethene

Concen: 81.046 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD066654.D

Acq: 11 Sep 2020 17:52

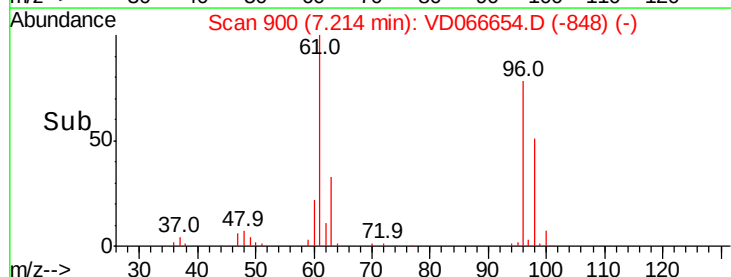
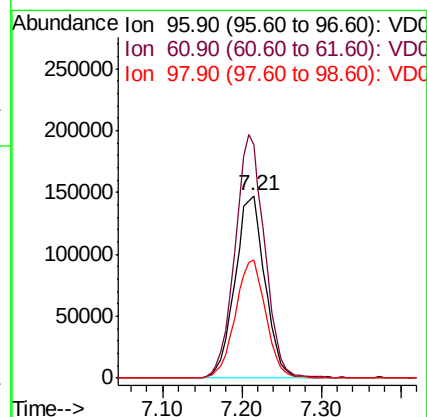
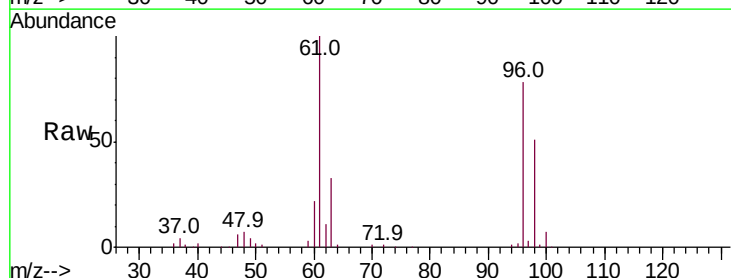
Tgt Ion: 96 Resp: 386976

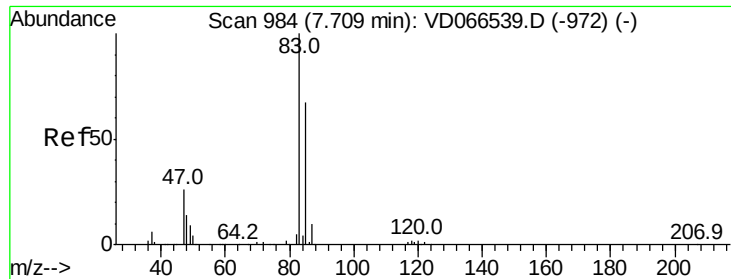
Ion Ratio Lower Upper

96 100

61 131.2 0.0 301.0

98 65.2 0.0 129.8

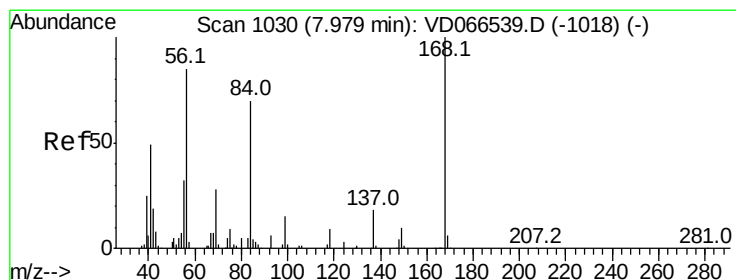
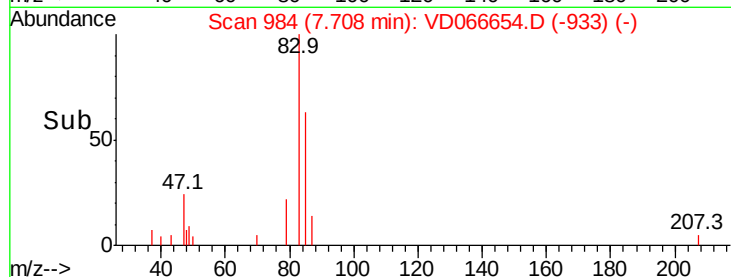
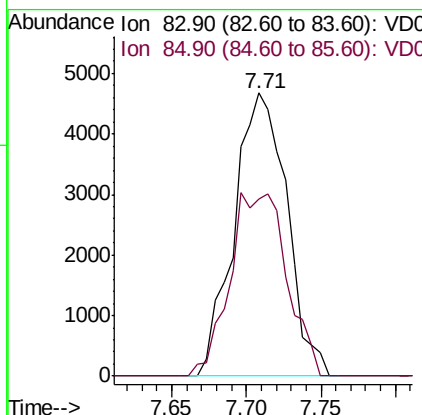
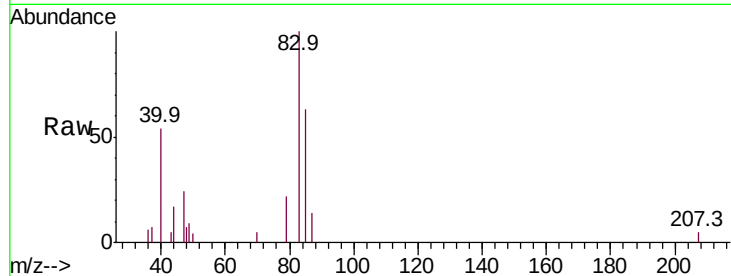




#30
Chloroform
Concen: 1.364 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.00 min
Lab File: VD066654.D
Acq: 11 Sep 2020 17:52

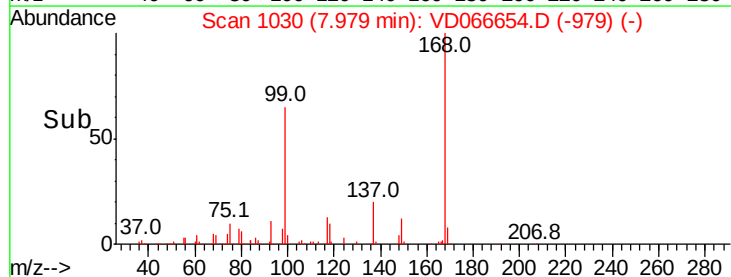
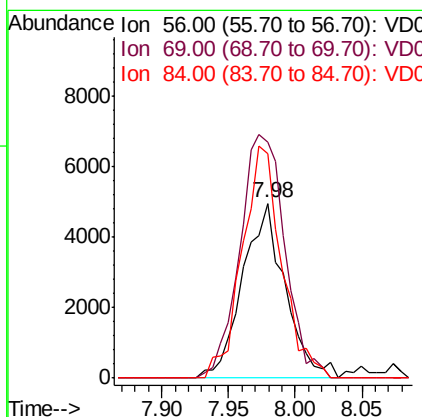
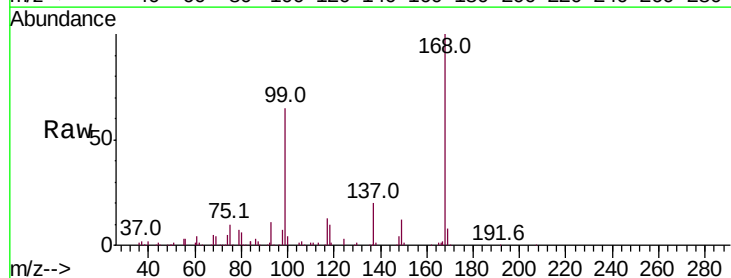
Instrument :
MSVOA_D
ClientSampled :

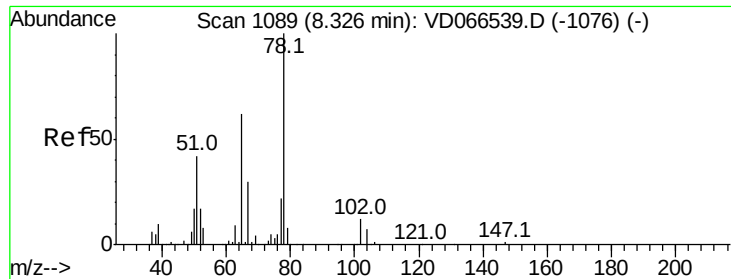
Tot Ion: 83 Resp: 11431
Ion Ratio Lower Upper
83 100
85 62.6 53.6 80.4



#31
Cyclohexane
Concen: 1.490 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD066654.D
Acq: 11 Sep 2020 17:52

Tgt Ion: 56 Resp: 10913
Ion Ratio Lower Upper
56 100
69 135.2 26.3 39.5#
84 128.6 66.1 99.1#

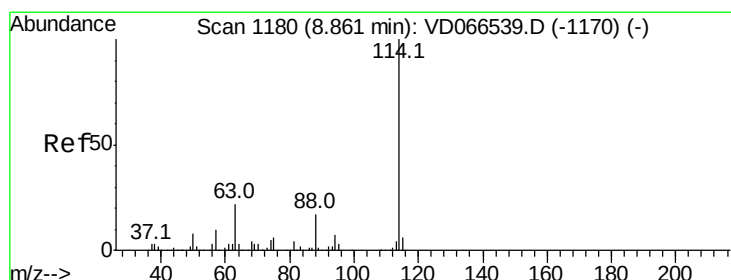
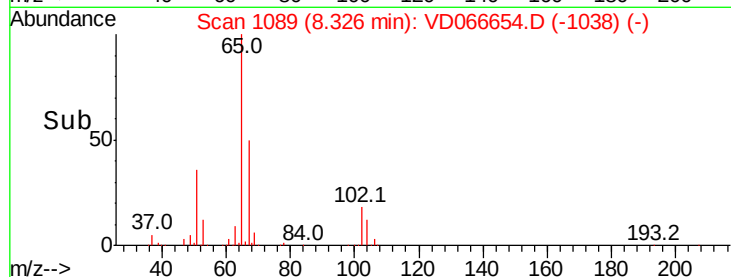
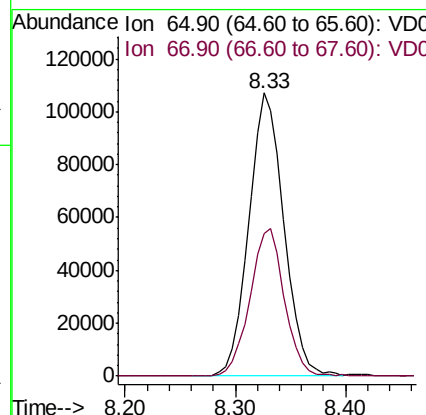
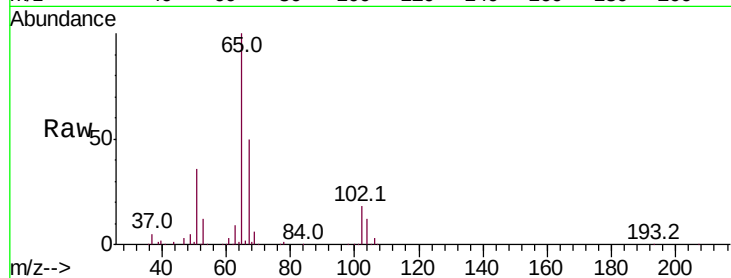




#33
 1,2-Dichloroethane-d4
 Concen: 53.114 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VD066654.D
 Acq: 11 Sep 2020 17:52

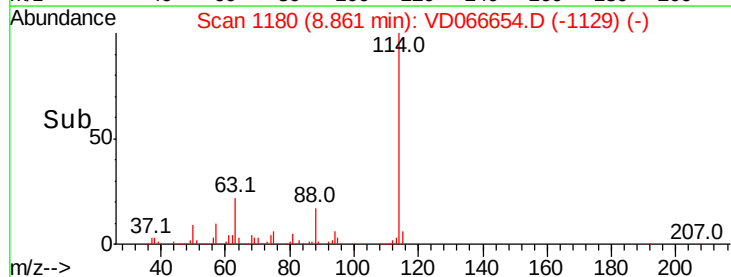
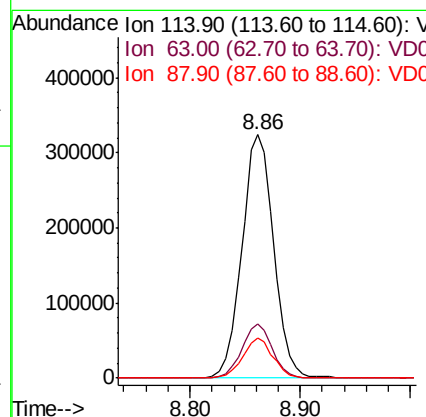
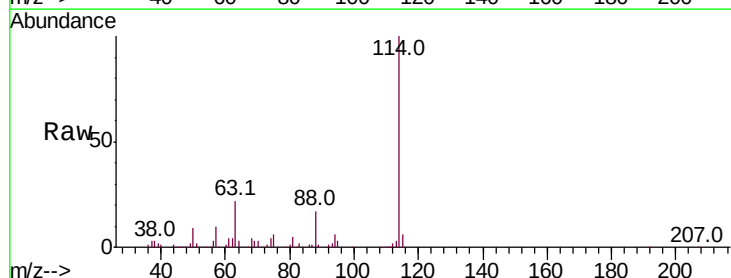
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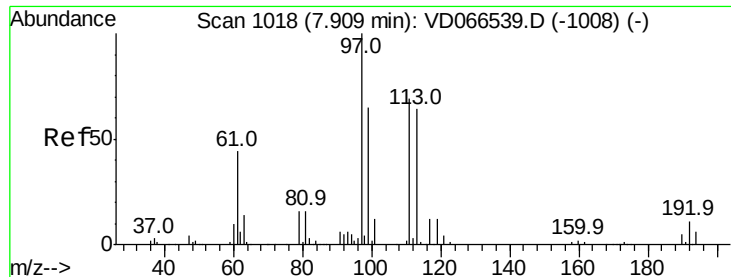
Tot Ion: 65 Resp: 238490
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VD066654.D
 Acq: 11 Sep 2020 17:52

Tgt Ion: 114 Resp: 654381
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.2
 88 16.6 0.0 33.2

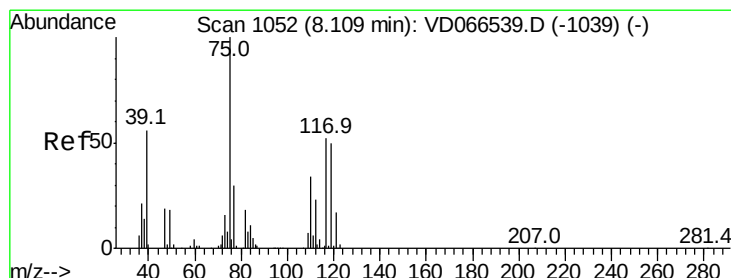
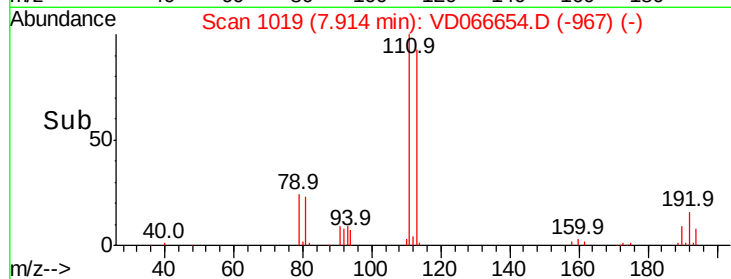
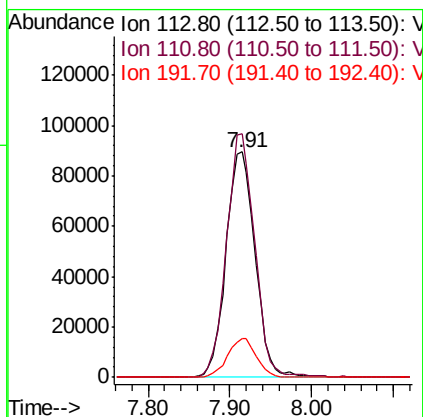
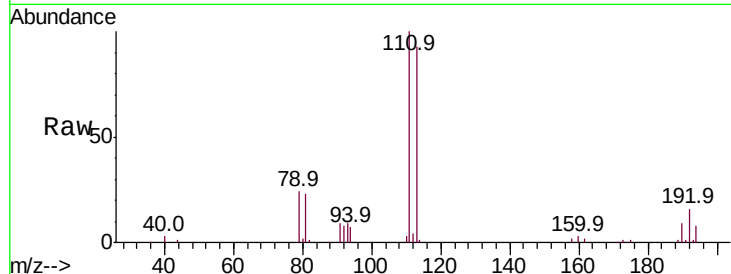




#35
 Dibromofluoromethane
 Concen: 50.314 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066654.D
 Acq: 11 Sep 2020 17:52

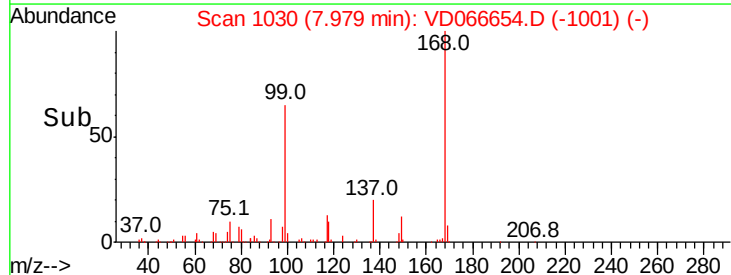
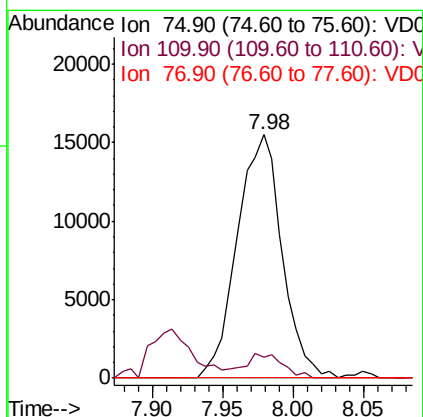
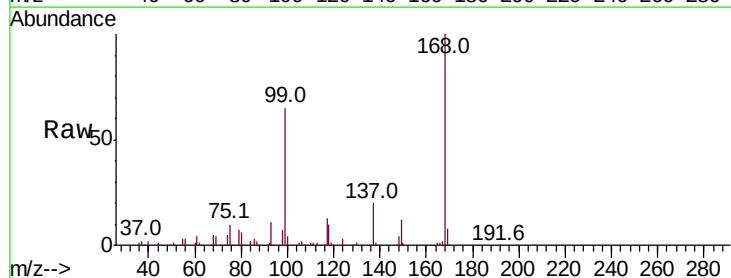
Instrument :
 MSVOA_D
 ClientSampleId :

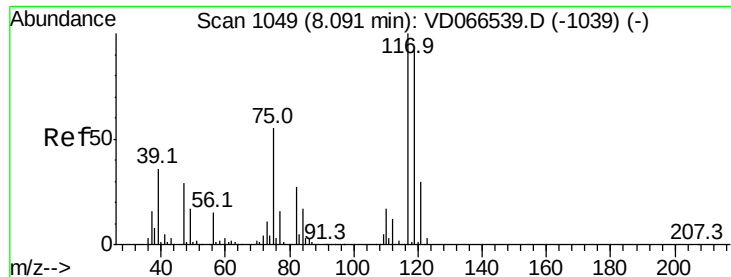
Tot Ion:113 Resp: 222114
 Ion Ratio Lower Upper
 113 100
 111 104.7 83.2 124.8
 192 17.1 13.7 20.5



#36
 1,1-Dichloropropene
 Concen: 5.066 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.13 min
 Lab File: VD066654.D
 Acq: 11 Sep 2020 17:52

Tgt Ion: 75 Resp: 34497
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.3 52.0#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.034 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066654.D

Acq: 11 Sep 2020 17:52

Instrument :

MSVOA_D

ClientSampleId :

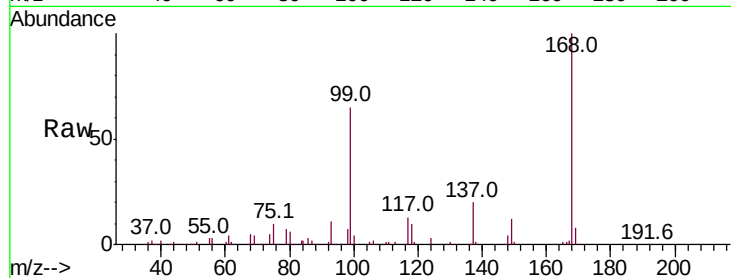
Tot Ion:117 Resp: 43437

Ion Ratio Lower Upper

117 100

119 6.2 73.9 110.9#

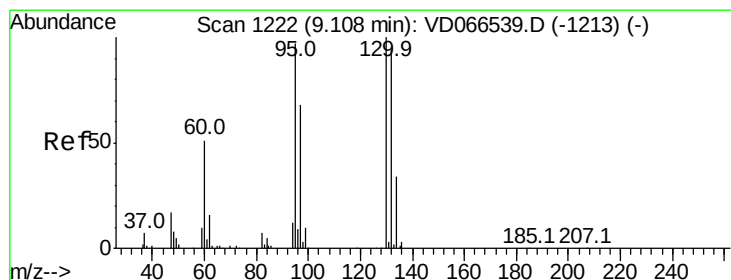
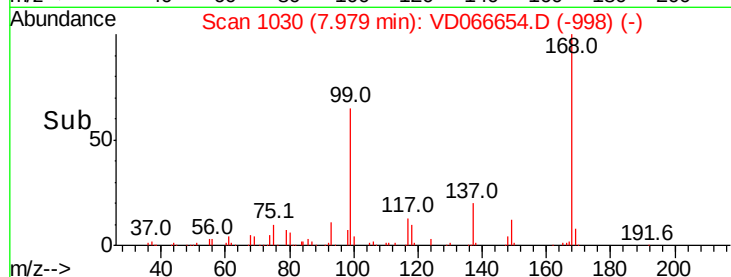
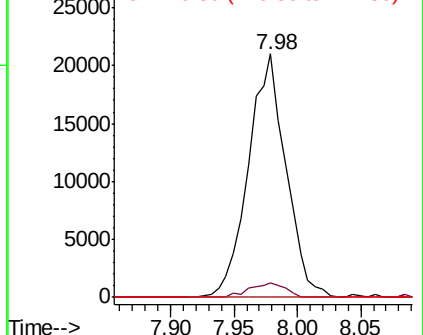
121 0.0 24.1 36.1#



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: 181.634 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. -0.00 min

Lab File: VD066654.D

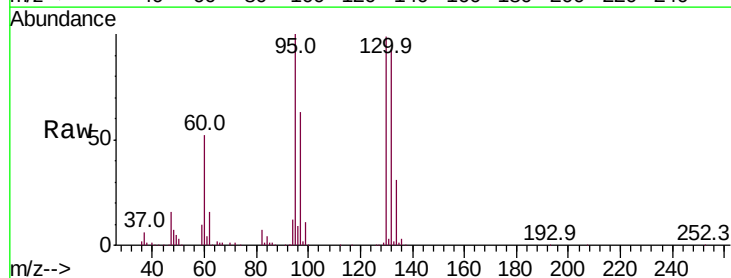
Acq: 11 Sep 2020 17:52

Tgt Ion:130 Resp: 888633

Ion Ratio Lower Upper

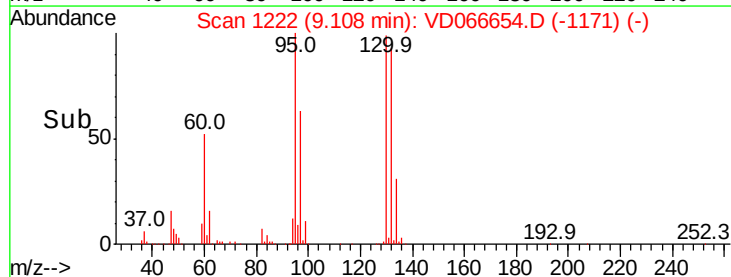
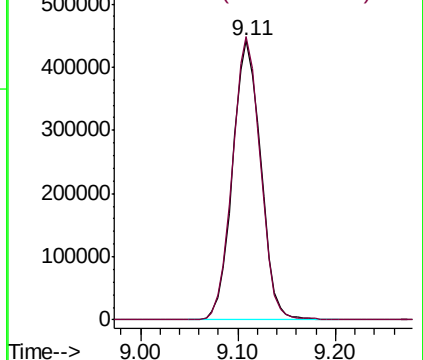
130 100

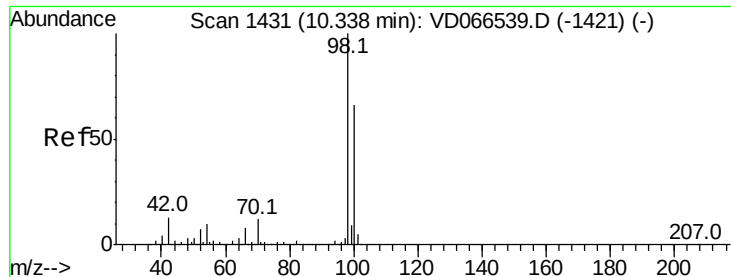
95 101.2 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 50.343 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066654.D

Acq: 11 Sep 2020 17:52

Instrument :

MSVOA_D

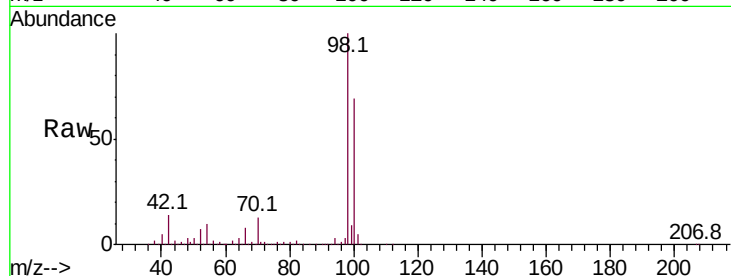
ClientSampleId :

Tot Ion: 98 Resp: 794315

Ion Ratio Lower Upper

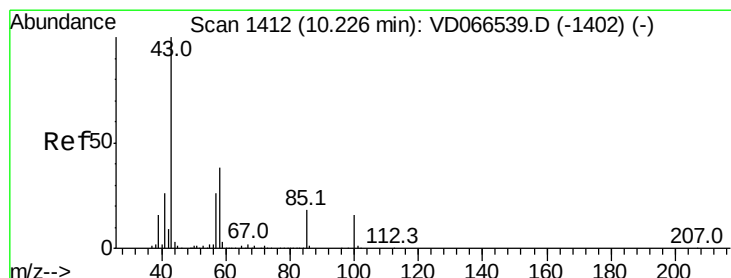
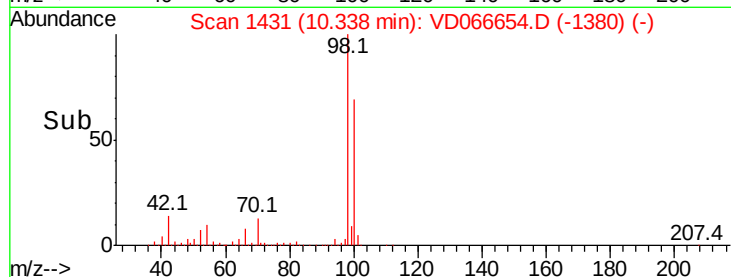
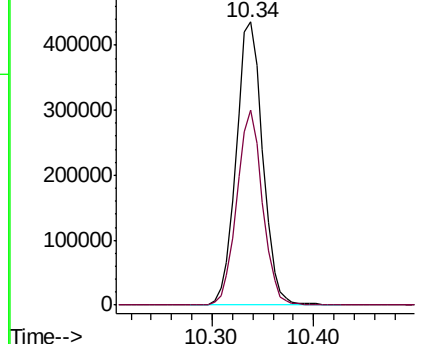
98 100

100 66.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.514 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. 0.11 min

Lab File: VD066654.D

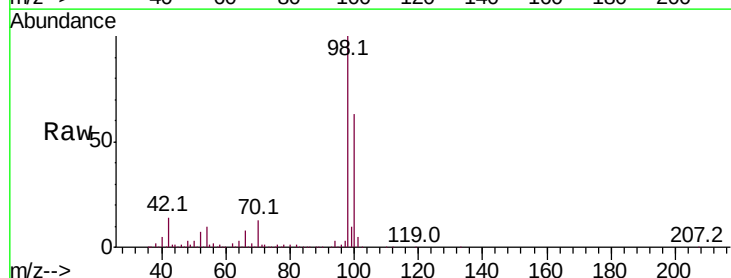
Acq: 11 Sep 2020 17:52

Tgt Ion: 43 Resp: 3967

Ion Ratio Lower Upper

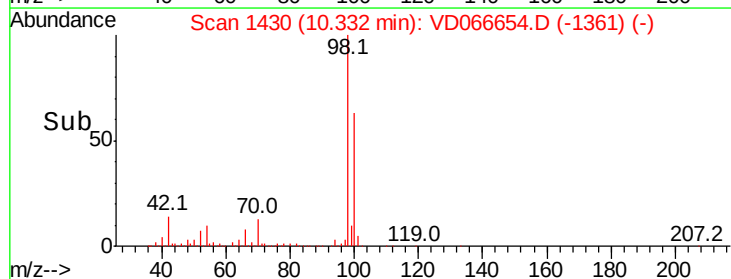
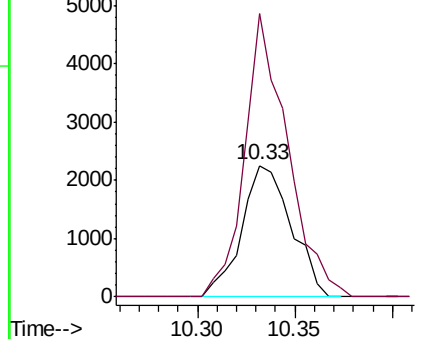
43 100

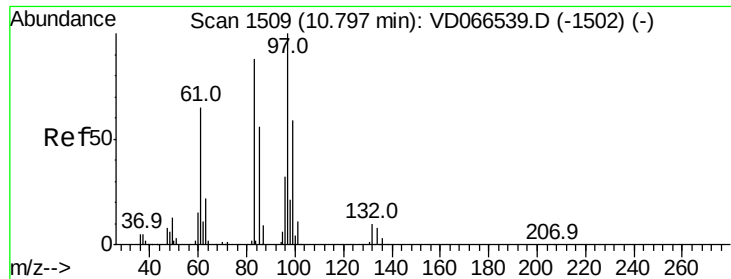
58 187.2 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#55

1,1,2-Trichloroethane

Concen: 91.886 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. 0.08 min

Lab File: VD066654.D

Acq: 11 Sep 2020 17:52

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 305728

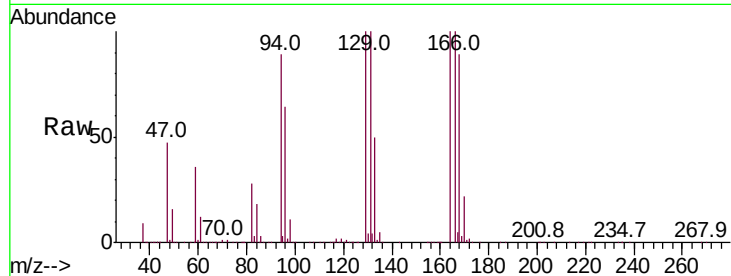
Ion Ratio Lower Upper

97 100

83 158.1 70.1 105.1#

85 27.0 44.5 66.7#

99 15.7 47.1 70.7#

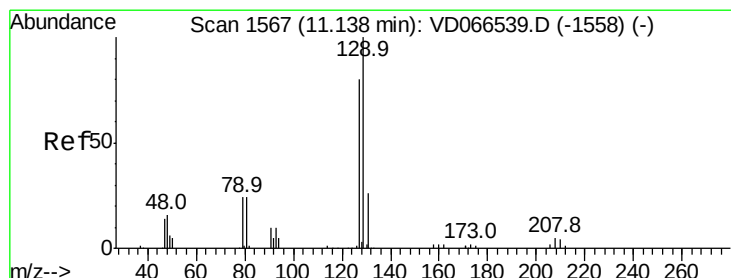
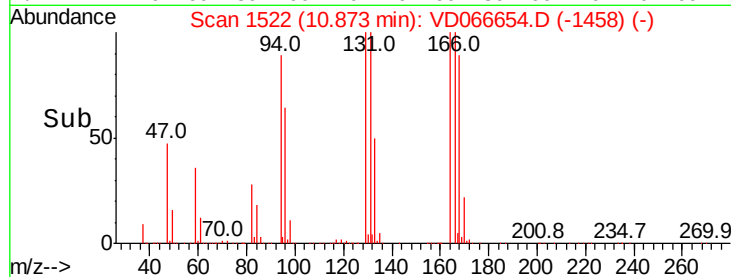
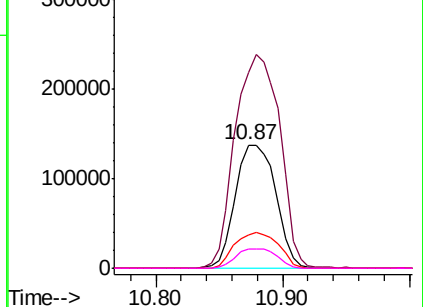


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#60

Dibromochloromethane

Concen: 5106.535 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.26 min

Lab File: VD066654.D

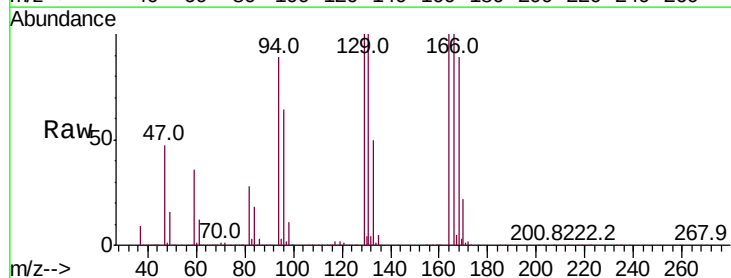
Acq: 11 Sep 2020 17:52

Tgt Ion:129 Resp:22467890

Ion Ratio Lower Upper

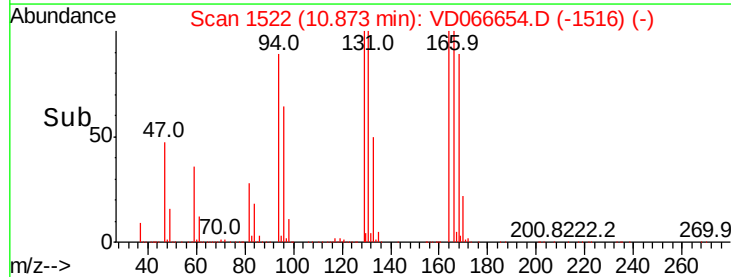
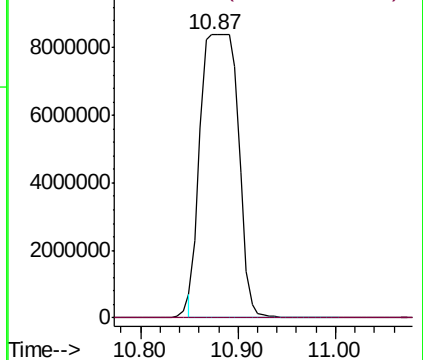
129 100

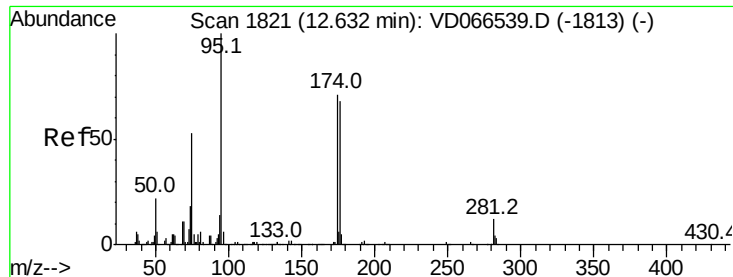
127 0.0 39.5 118.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

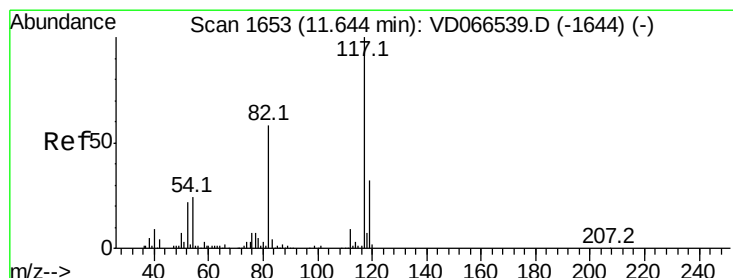
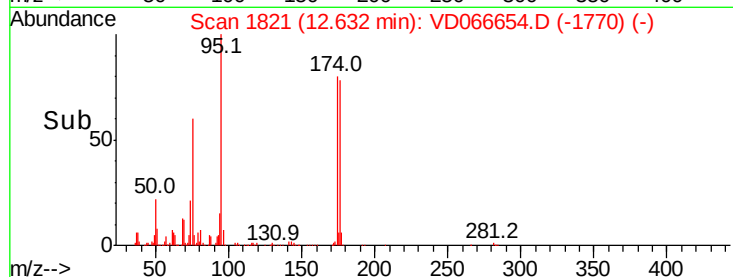
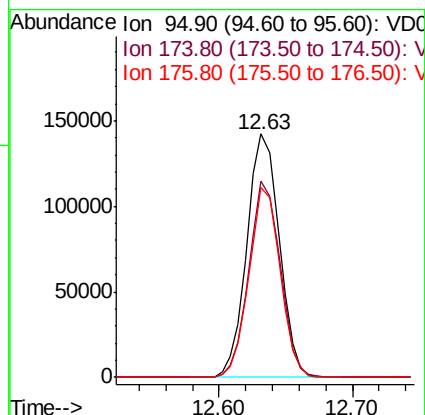
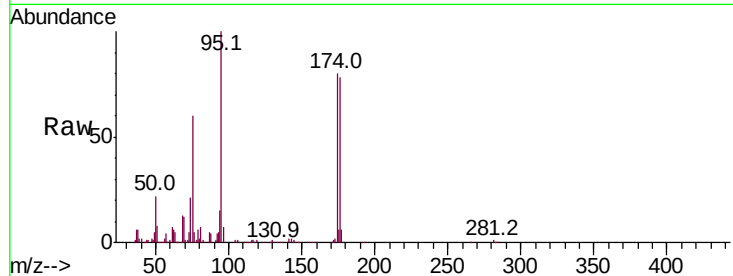




#62
4-Bromofluorobenzene
Concen: 45.695 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD066654.D
Acq: 11 Sep 2020 17:52

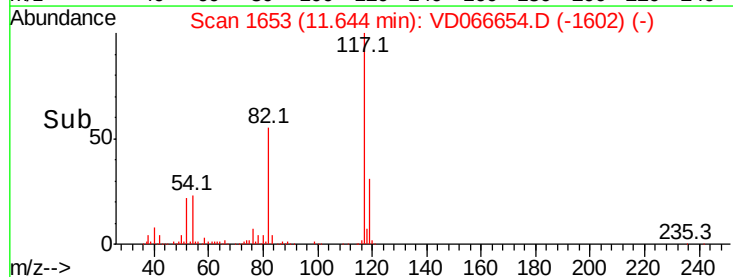
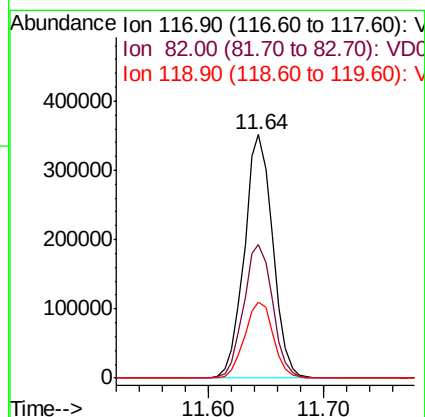
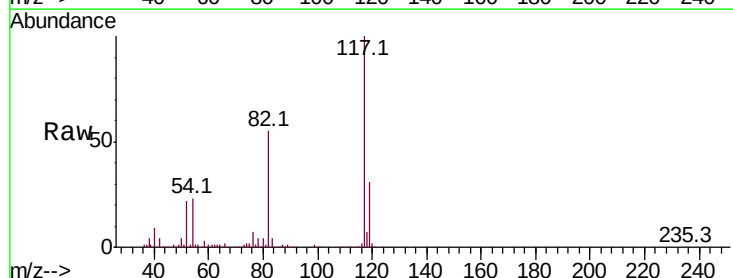
Instrument :
MSVOA_D
ClientSampleId :

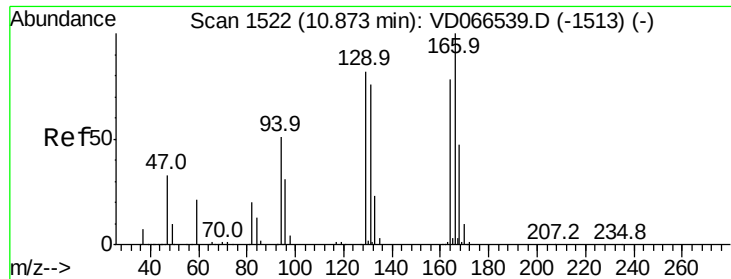
Tot Ion: 95 Resp: 239071
Ion Ratio Lower Upper
95 100
174 77.7 0.0 155.8
176 74.9 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066654.D
Acq: 11 Sep 2020 17:52

Tgt Ion: 117 Resp: 601586
Ion Ratio Lower Upper
117 100
82 54.8 46.2 69.2
119 31.4 25.8 38.8



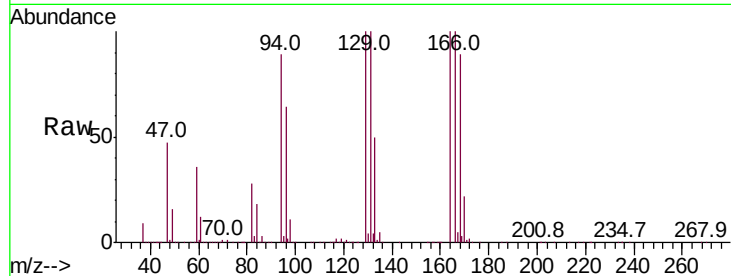


#64
Tetrachloroethene
Concen: 5631.793 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD066654.D
Acq: 11 Sep 2020 17:52

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:164 Resp:22811581

Ion	Ratio	Lower	Upper
164	100		
166	100.0	103.2	154.8#
129	100.0	84.5	126.7
131	100.0	78.9	118.3



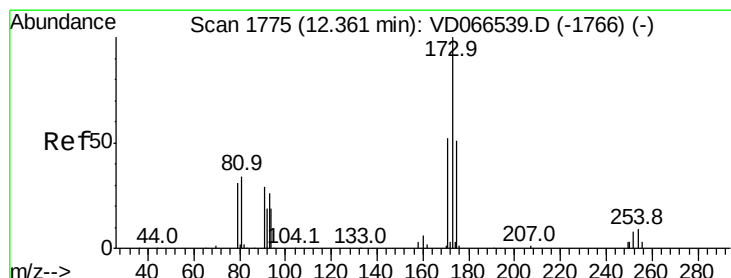
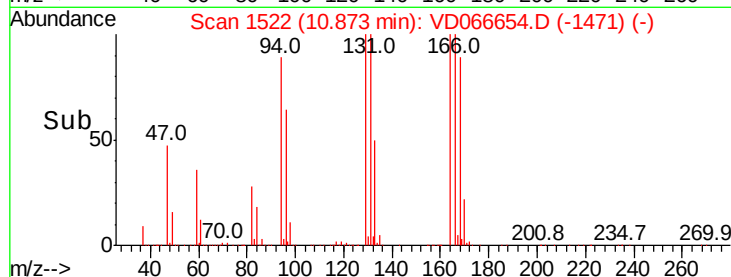
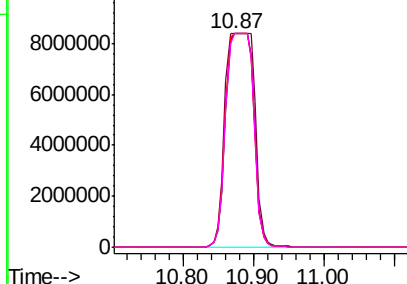
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

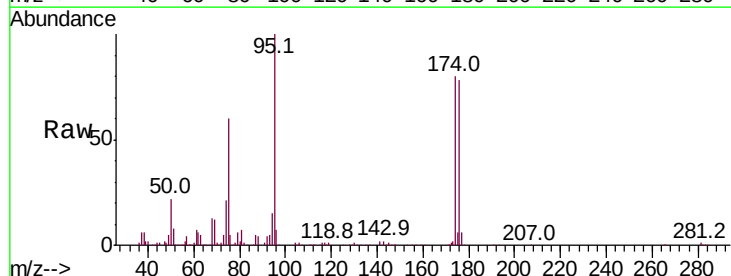
Ion 130.80 (130.50 to 131.50): V



#71
Bromoform
Concen: 1.170 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.27 min
Lab File: VD066654.D
Acq: 11 Sep 2020 17:52

Tgt Ion:173 Resp: 2794

Ion	Ratio	Lower	Upper
173	100		
175	385.4	24.2	72.6#
254	0.0	0.0	0.0

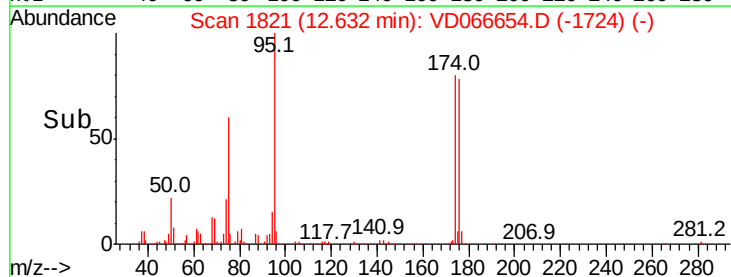
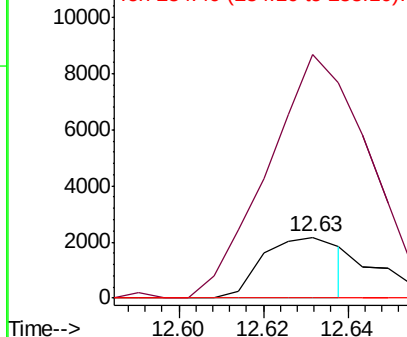


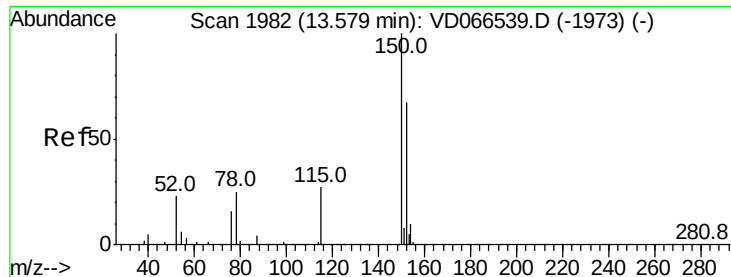
Abundance

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

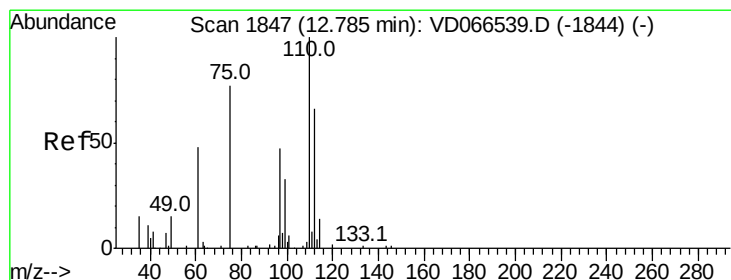
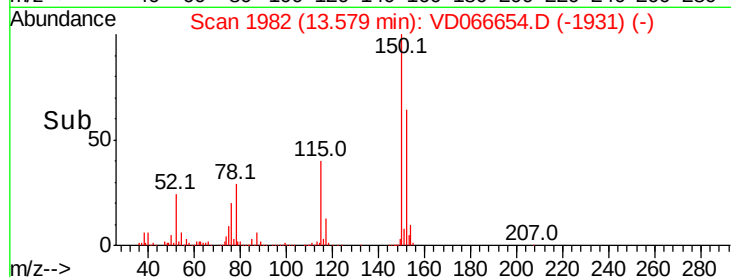
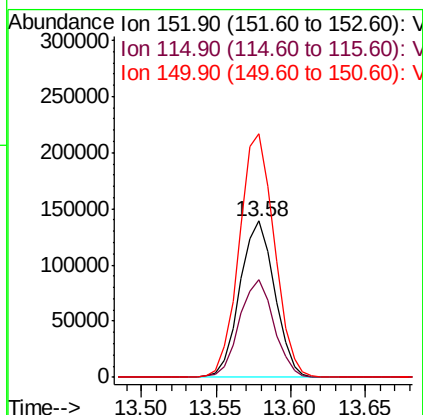
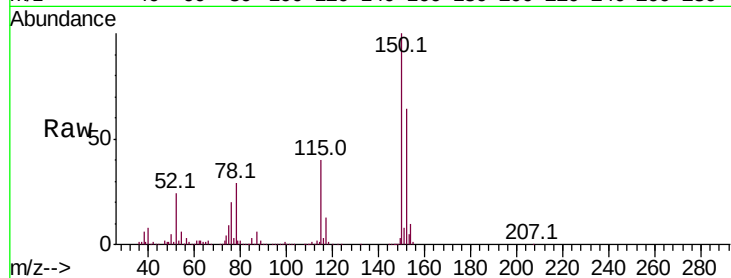




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.58 min Scan# 1982
 Delta R.T. -0.00 min
 Lab File: VD066654.D
 Acq: 11 Sep 2020 17:52

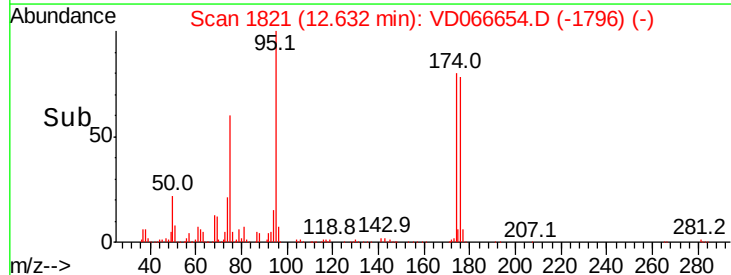
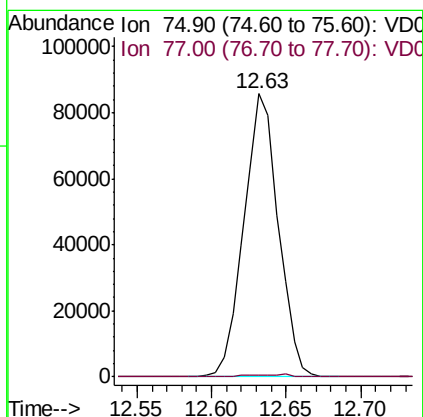
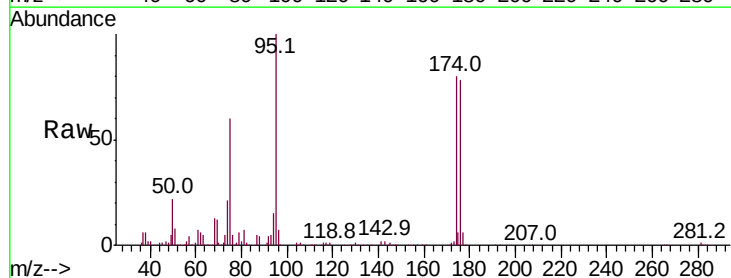
Instrument :
 MSVOA_D
 ClientSampleId :

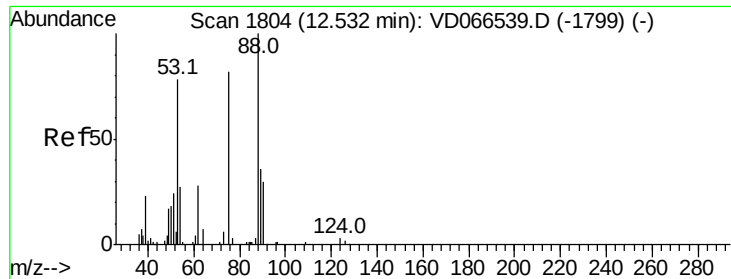
Tot Ion	Ratio	Lower	Upper
152	100		
115	61.7	30.4	91.2
150	156.8	0.0	345.8



#76
 1,2,3-Trichloropropane
 Concen: 63.008 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066654.D
 Acq: 11 Sep 2020 17:52

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.5	0.0	0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 147.103 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD066654.D
 Acq: 11 Sep 2020 17:52

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 136402
 Ion Ratio Lower Upper
 75 100
 53 0.2 87.0 130.4#
 89 0.0 37.1 55.7#

