

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091420\
 Data File : VD066691.D
 Acq On : 15 Sep 2020 01:11
 Operator : VA/SY
 Sample : L3981-11
 Misc : 12.09G/5.00ml/MSVOA D/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 15 02:42:27 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	363922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	694894	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	670692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	278397	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	257472	58.48	ug/l	0.00
Spiked Amount			Recovery	=	116.96%	
35) Dibromofluoromethane	7.91	113	243436	51.93	ug/l	0.00
Spiked Amount			Recovery	=	103.86%	
50) Toluene-d8	10.34	98	857525	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	
62) 4-Bromofluorobenzene	12.63	95	279485	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	

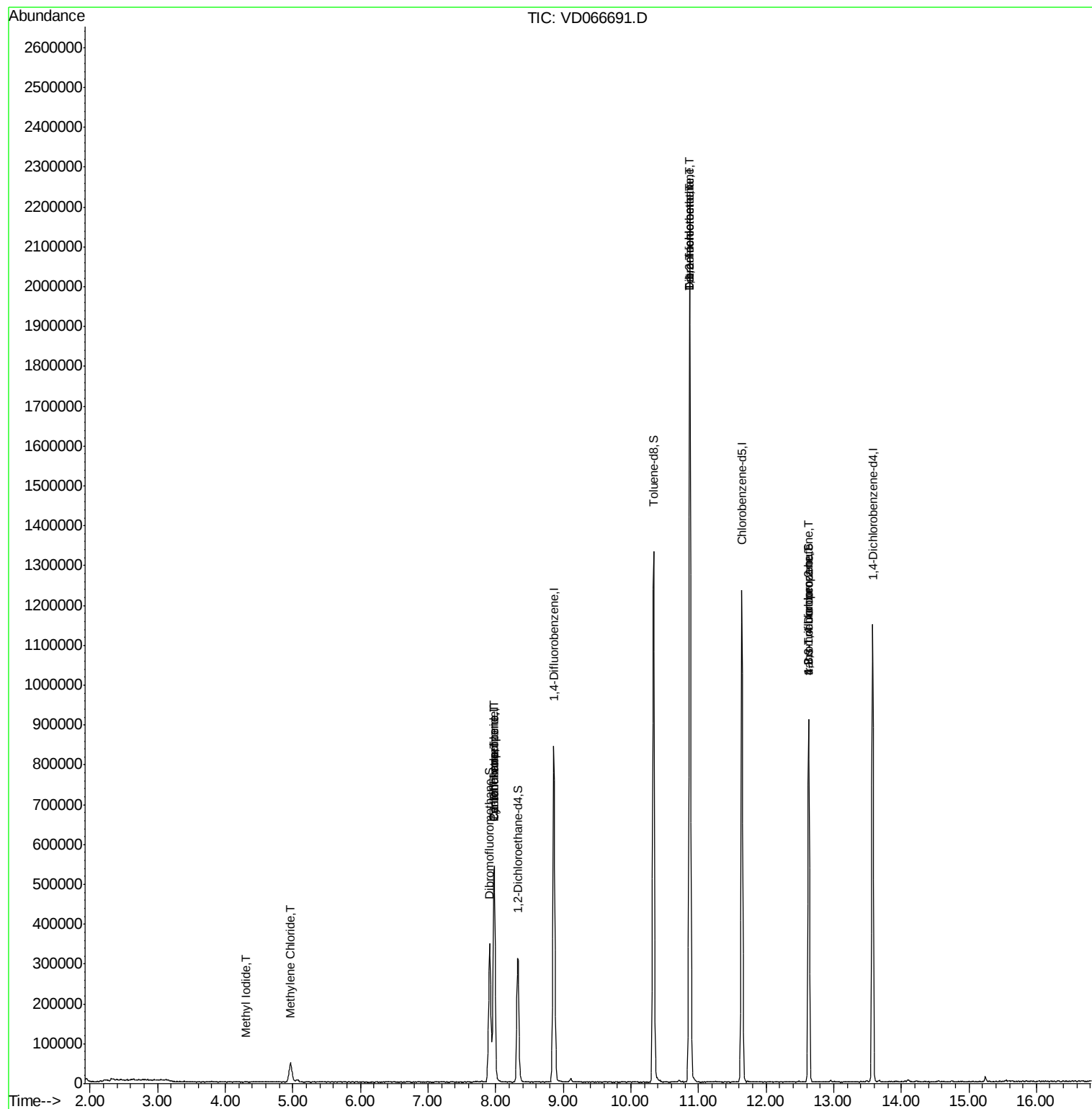
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	195	Below Cal	#	46
5) Bromomethane	2.76	94	66	Below Cal	#	9
10) Methyl Iodide	4.30	142	60	4.038	ug/l #	35
20) Methylene Chloride	4.97	84	34592	1.402	ug/l #	87
31) Cyclohexane	7.98	56	10555	1.469	ug/l #	52
36) 1,1-Dichloropropene	7.97	75	34690	4.797	ug/l #	51
38) Carbon Tetrachloride	7.98	117	42377	5.544	ug/l #	18
55) 1,1,2-Trichloroethane	10.87	97	5123	1.450	ug/l #	19
60) Dibromochloromethane	10.87	129	445984	95.454	ug/l #	10
64) Tetrachloroethene	10.87	164	473982	104.961	ug/l	99
76) 1,2,3-Trichloropropane	12.63	75	158243	59.102	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	158243	137.983	ug/l #	7

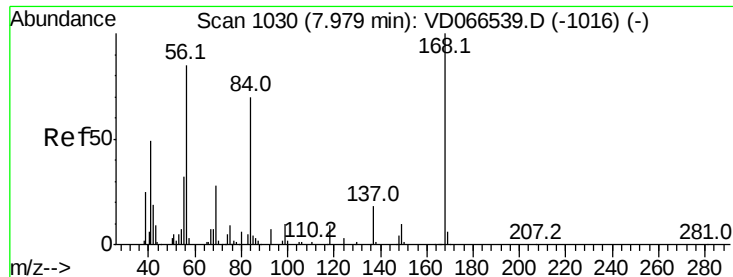
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066691.D

Acq: 15 Sep 2020 01:11

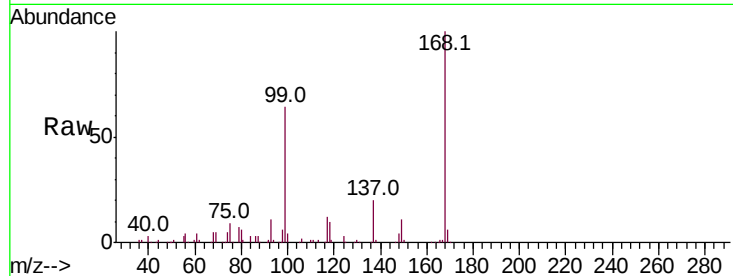
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 363922

Ion Ratio Lower Upper

168 100

99 64.4 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

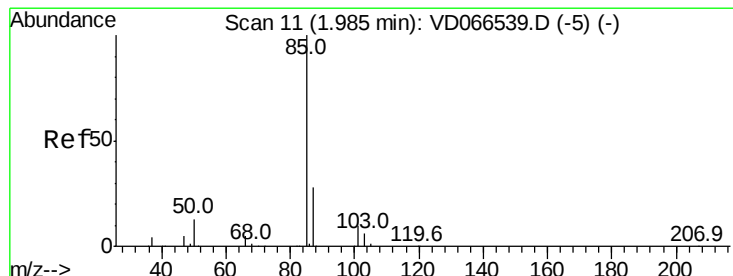
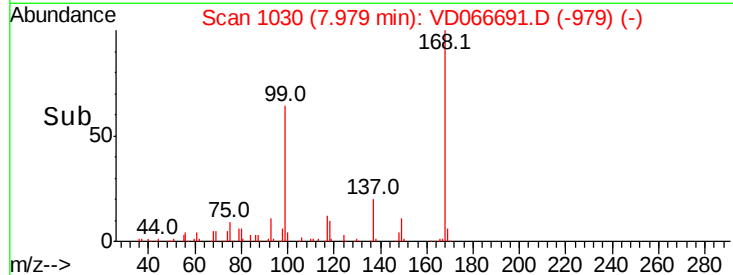
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066691.D

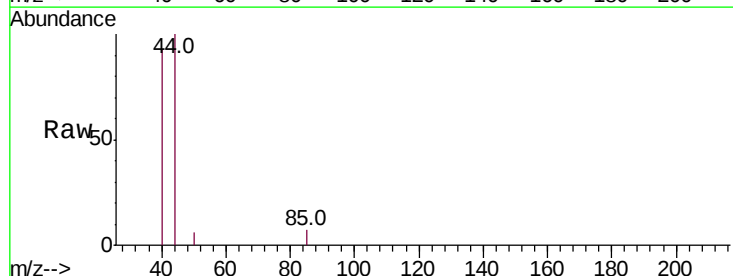
Acq: 15 Sep 2020 01:11

Tgt Ion: 85 Resp: 195

Ion Ratio Lower Upper

85 100

87 0.0 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

250

200

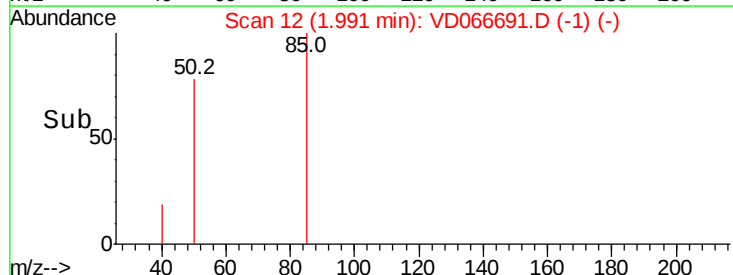
150

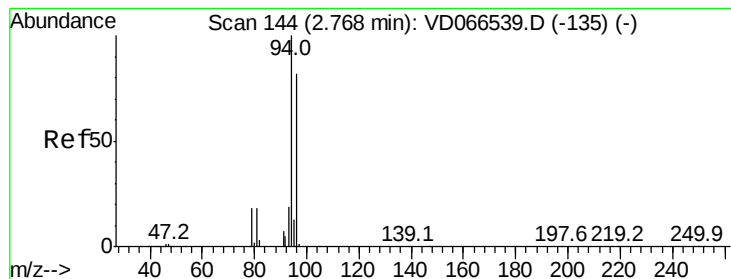
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

Instrument :

MSVOA_D

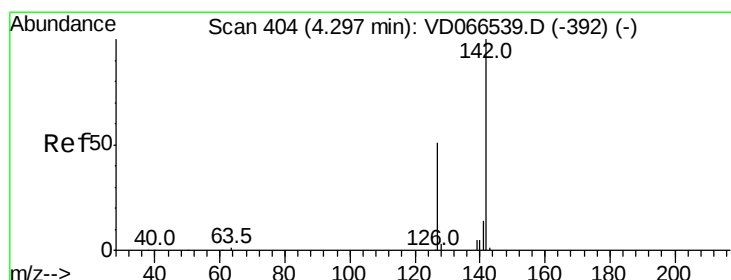
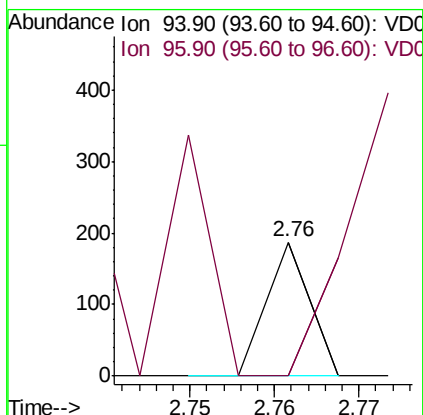
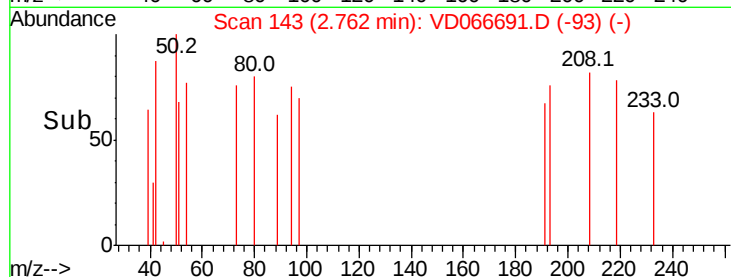
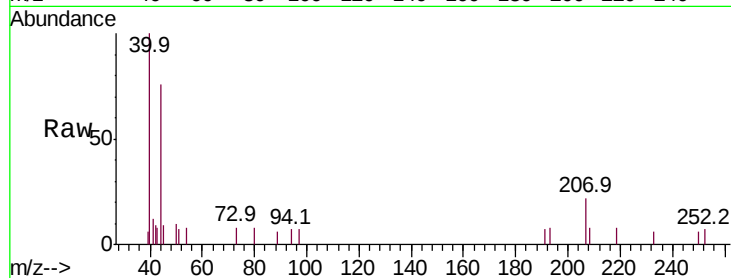
ClientSampled :

Tot Ion: 94 Resp: 66

Ion Ratio Lower Upper

94 100

96 0.0 65.2 97.8#



#10

Methyl Iodide

Concen: 4.038 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

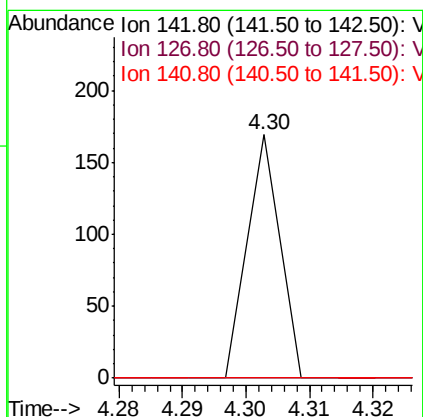
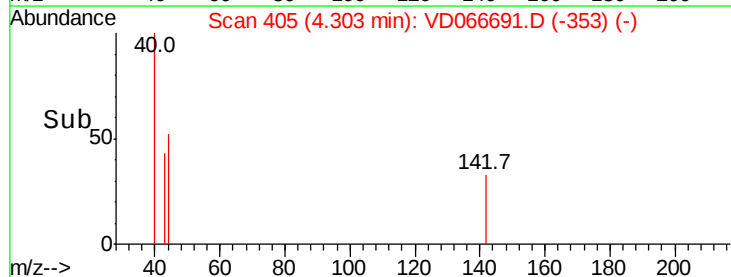
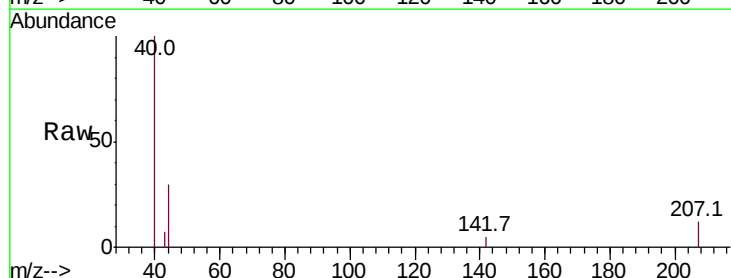
Tgt Ion: 142 Resp: 60

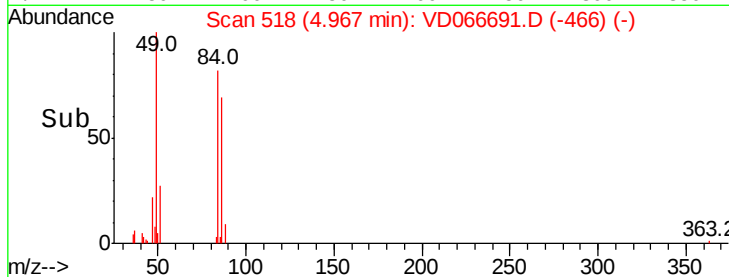
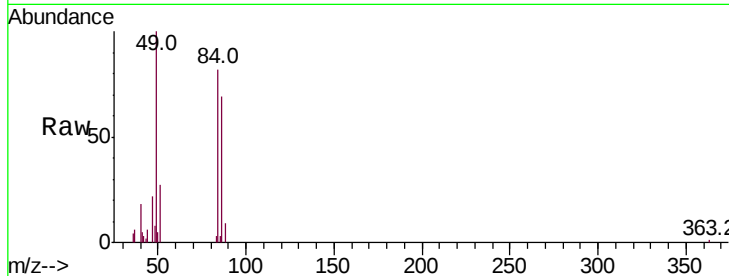
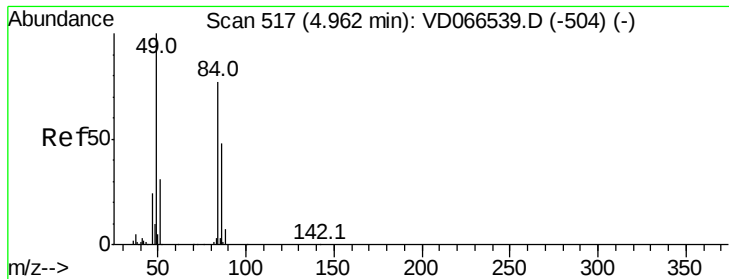
Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

141 0.0 12.2 18.4#

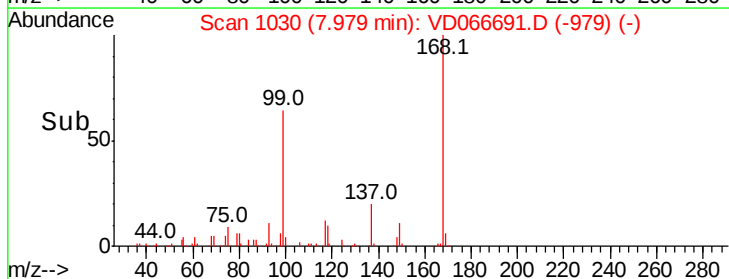
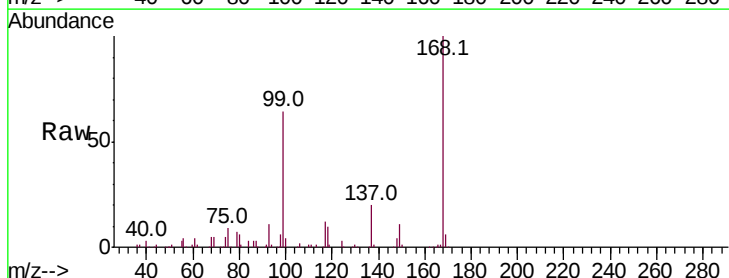
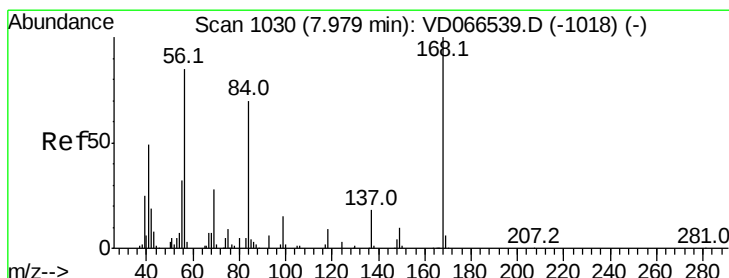
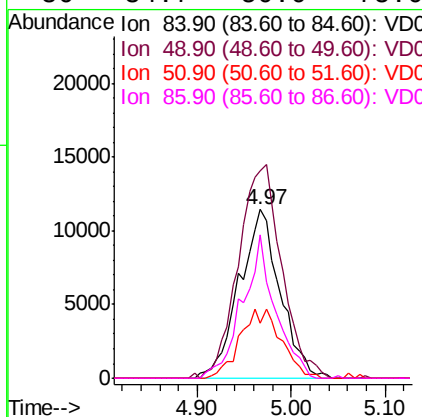




#20
Methvlene Chloride
Concen: 1.402 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD066691.D
Acq: 15 Sep 2020 01:11

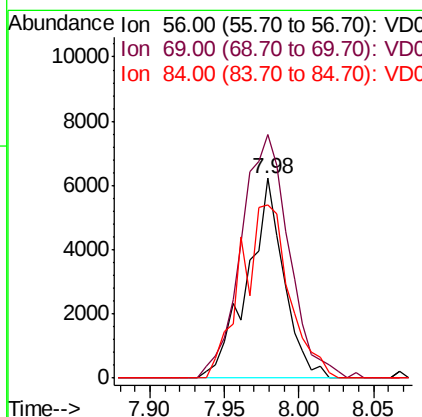
Instrument :
MSVOA_D
ClientSampleId :

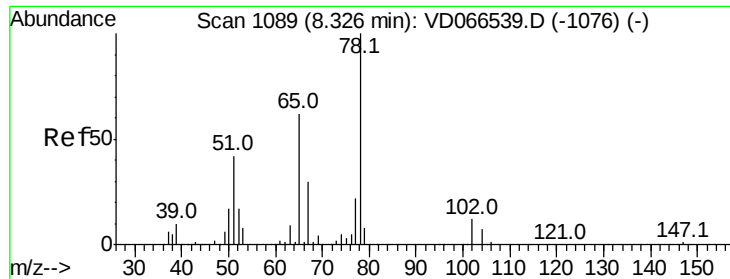
Tot Ion: 84 Resp: 34592
Ion Ratio Lower Upper
84 100
49 122.6 104.3 156.5
51 32.8 32.2 48.4
86 84.7 50.0 75.0#



#31
Cyclohexane
Concen: 1.469 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD066691.D
Acq: 15 Sep 2020 01:11

Tgt Ion: 56 Resp: 10555
Ion Ratio Lower Upper
56 100
69 121.9 26.3 39.5#
84 86.9 66.1 99.1





#33

1,2-Dichloroethane-d4

Concen: 58.475 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

Instrument :

MSVOA_D

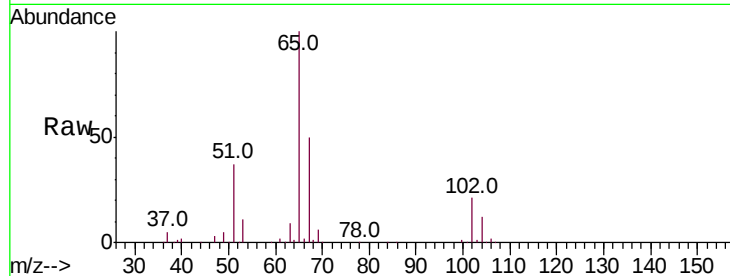
ClientSampleId :

Tot Ion: 65 Resp: 257472

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

120000

100000

80000

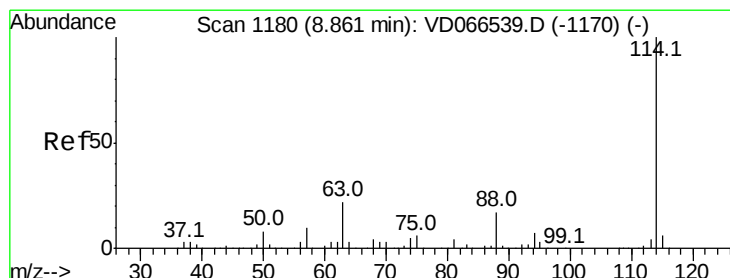
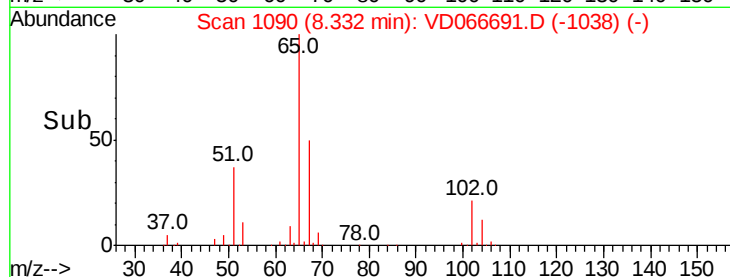
60000

40000

20000

0

Time--> 8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

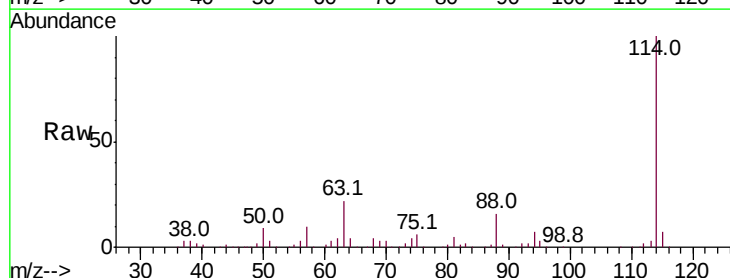
Tgt Ion:114 Resp: 694894

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 15.8 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

400000

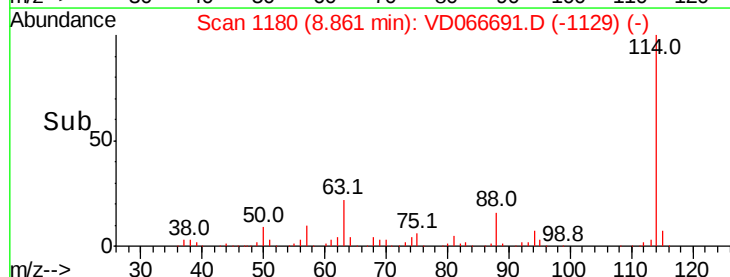
300000

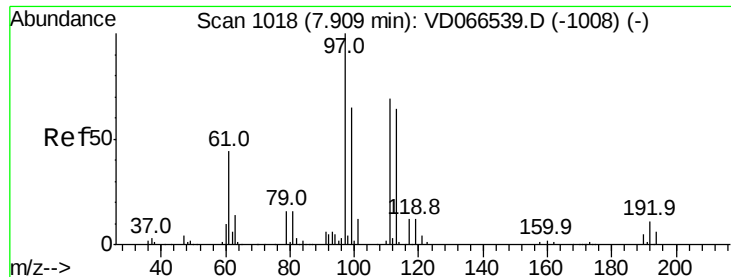
200000

100000

0

Time--> 8.80 8.90 9.00

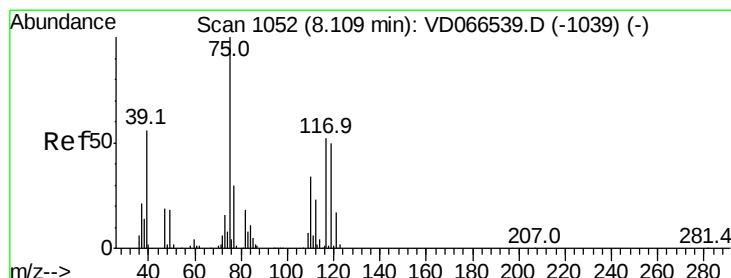
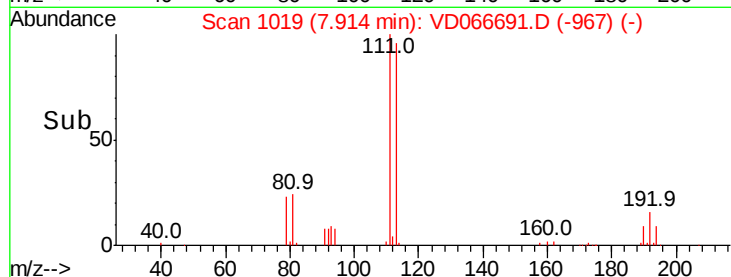
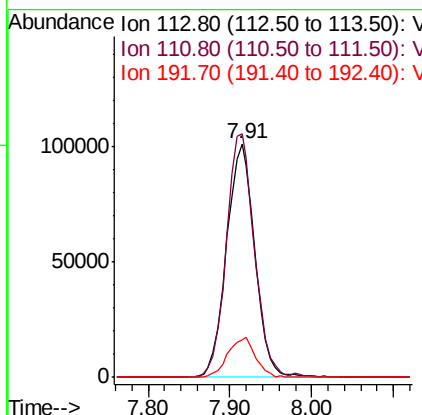
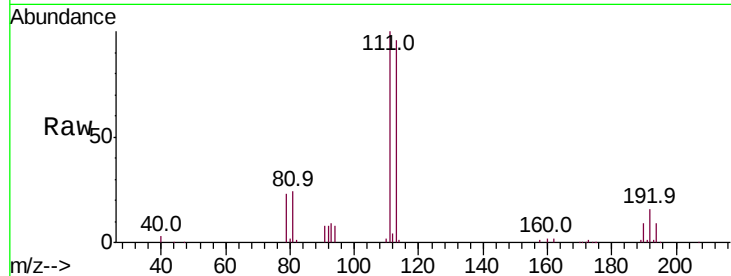




#35
 Dibromofluoromethane
 Concen: 51.929 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066691.D
 Acq: 15 Sep 2020 01:11

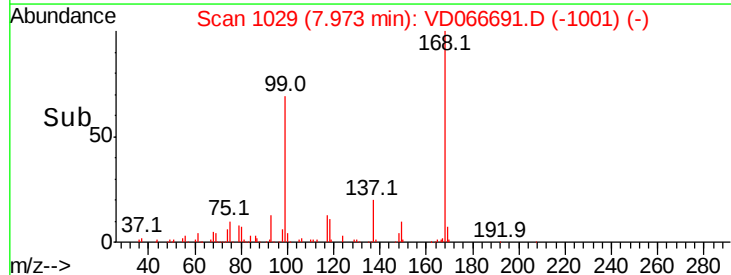
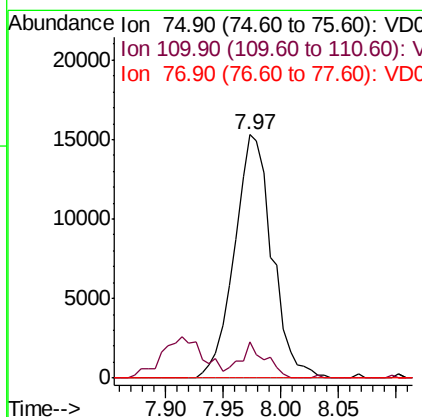
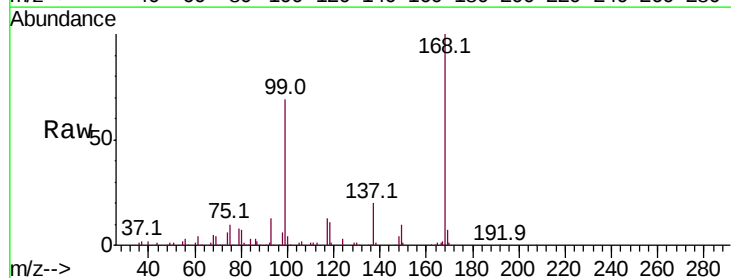
Instrument :
 MSVOA_D
 ClientSampled :

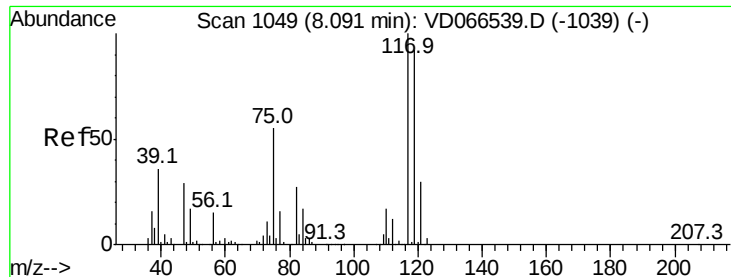
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.2	124.8
192	16.9	13.7	20.5



#36
 1,1-Dichloropropene
 Concen: 4.797 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD066691.D
 Acq: 15 Sep 2020 01:11

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	17.3	52.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 5.544 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

Instrument :

MSVOA_D

ClientSampleId :

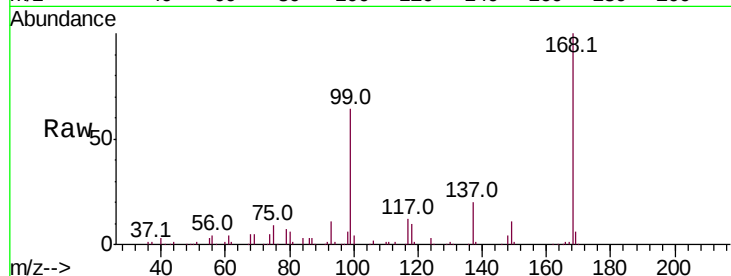
Tot Ion:117 Resp: 42377

Ion Ratio Lower Upper

117 100

119 5.7 73.9 110.9#

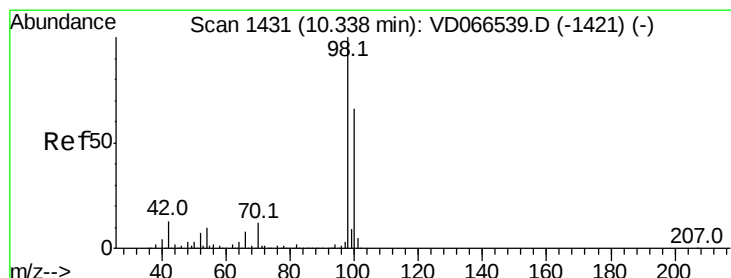
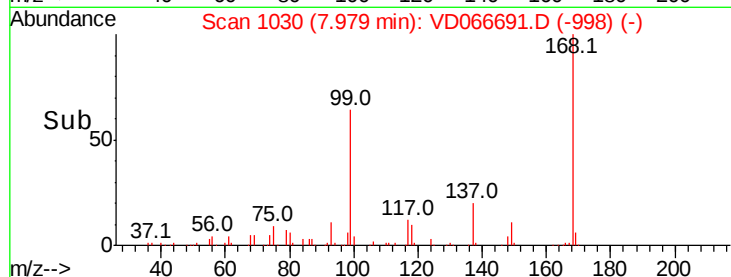
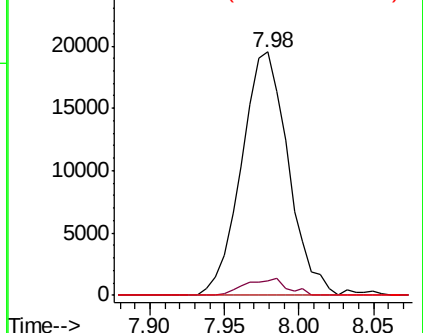
121 0.0 24.1 36.1#



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



#50

Toluene-d8

Concen: 51.180 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066691.D

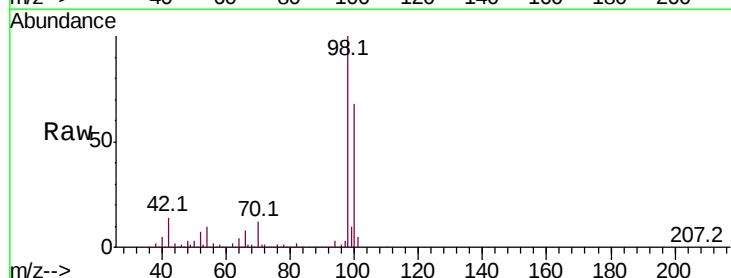
Acq: 15 Sep 2020 01:11

Tgt Ion: 98 Resp: 857525

Ion Ratio Lower Upper

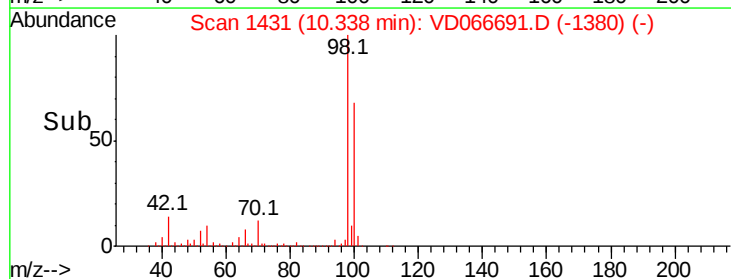
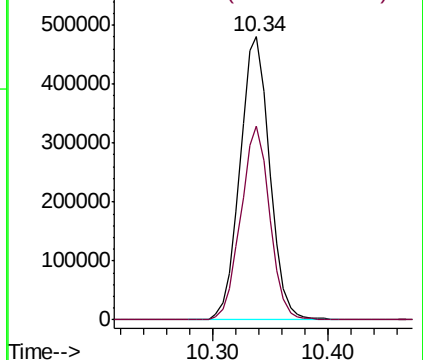
98 100

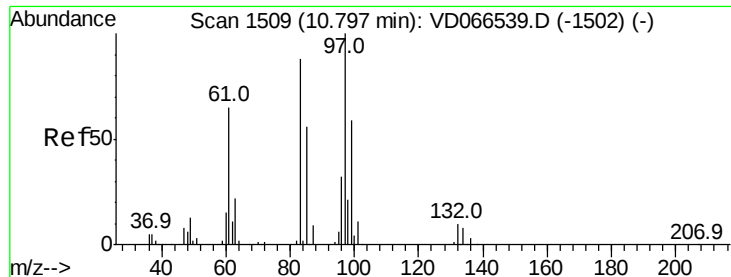
100 66.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#55

1,1,2-Trichloroethane

Concen: 1.450 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. 0.08 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 97 Resp: 5123

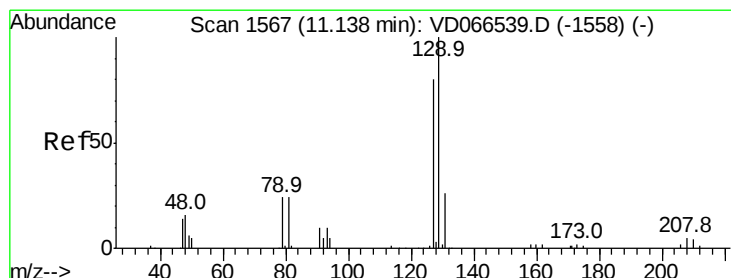
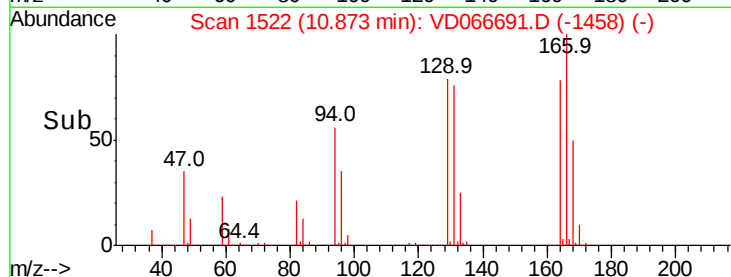
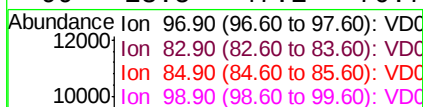
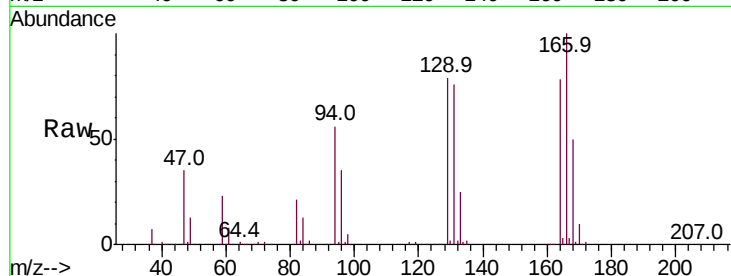
Ion Ratio Lower Upper

97 100

83 204.4 70.1 105.1#

85 31.3 44.5 66.7#

99 13.5 47.1 70.7#



#60

Dibromochloromethane

Concen: 95.454 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.26 min

Lab File: VD066691.D

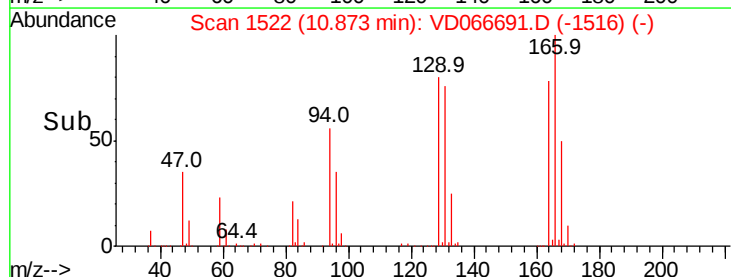
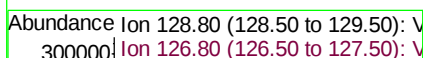
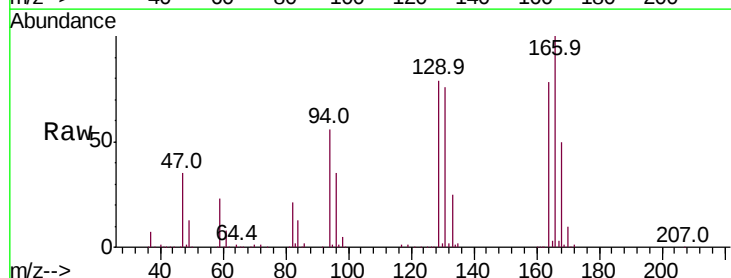
Acq: 15 Sep 2020 01:11

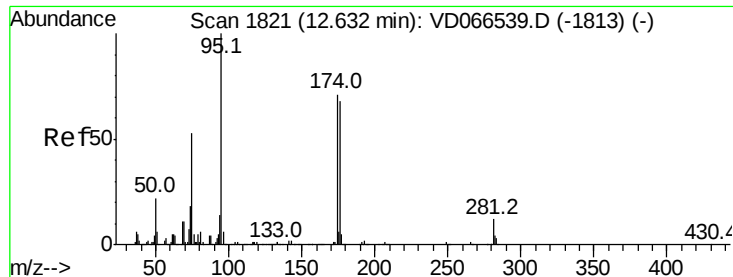
Tgt Ion: 129 Resp: 445984

Ion Ratio Lower Upper

129 100

127 0.1 39.5 118.3#





#62

4-Bromofluorobenzene

Concen: 50.305 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

Instrument :

MSVOA_D

ClientSampleId :

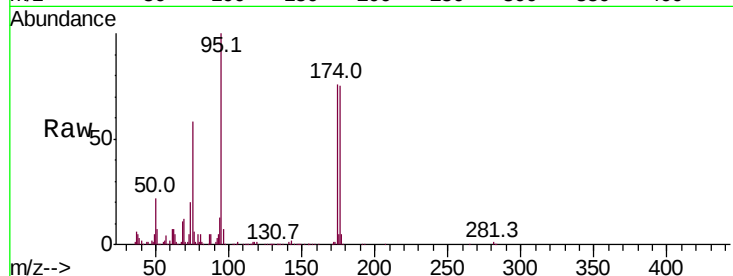
Tot Ion: 95 Resp: 279485

Ion Ratio Lower Upper

95 100

174 76.3 0.0 155.8

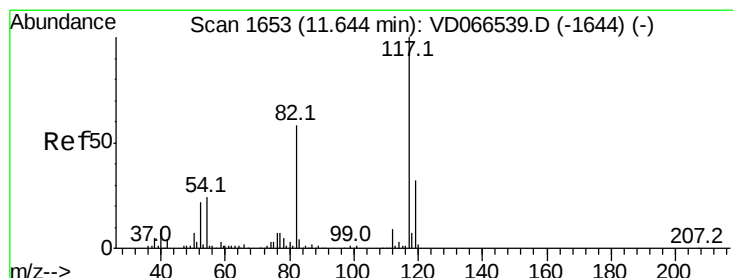
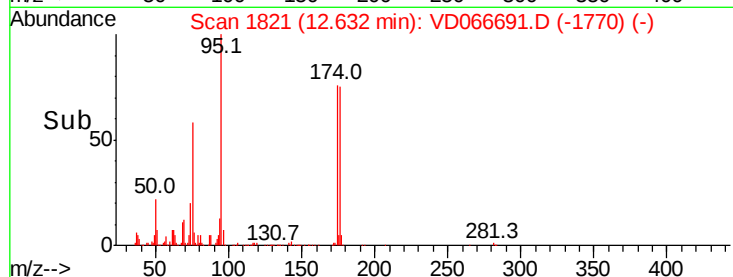
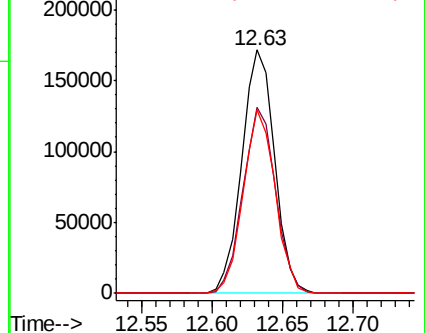
176 73.5 0.0 148.6



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: VD066691.D

Acq: 15 Sep 2020 01:11

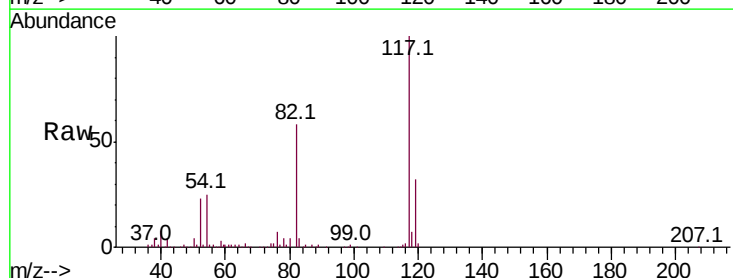
Tgt Ion: 117 Resp: 670692

Ion Ratio Lower Upper

117 100

82 57.5 46.2 69.2

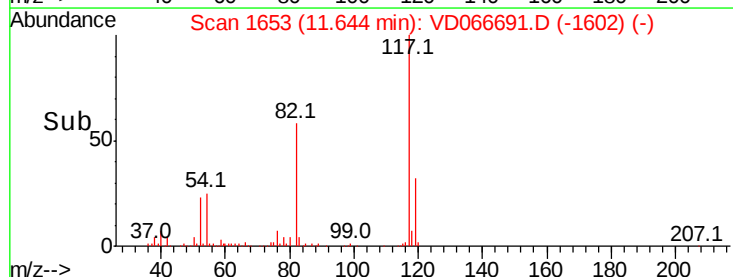
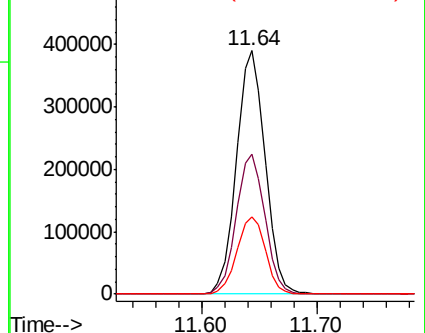
119 31.7 25.8 38.8

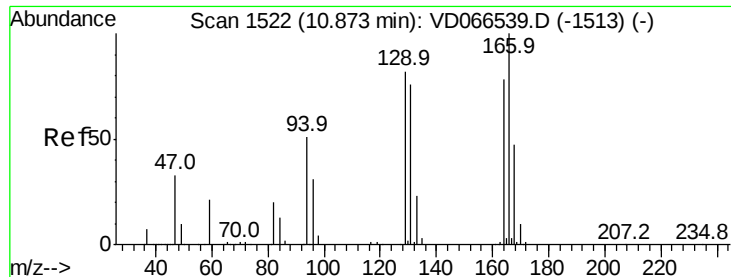


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

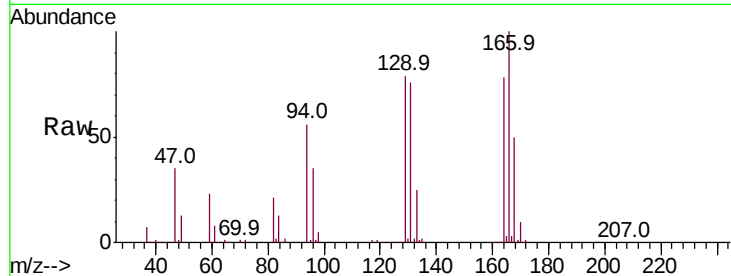




#64
Tetrachloroethene
Concen: 104.961 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD066691.D
Acq: 15 Sep 2020 01:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
166	129.0	103.2	154.8
129	102.2	84.5	126.7
131	97.9	78.9	118.3



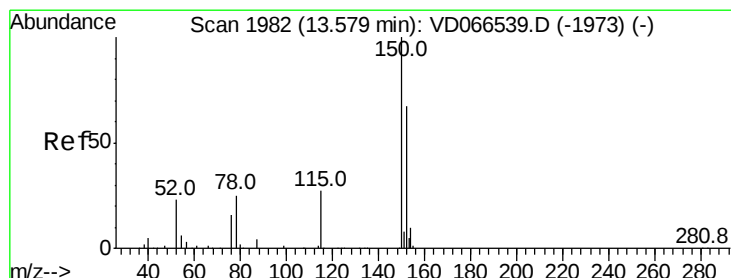
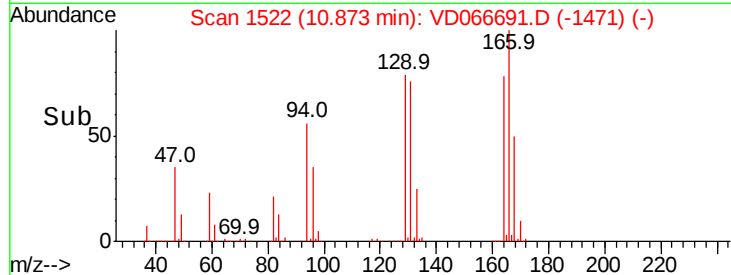
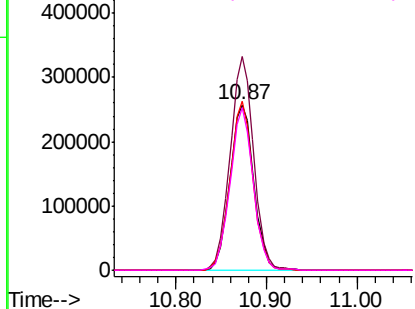
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

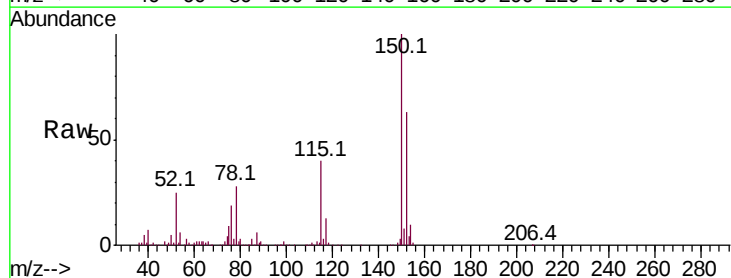
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066691.D
Acq: 15 Sep 2020 01:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.3	30.4	91.2
150	158.9	0.0	345.8

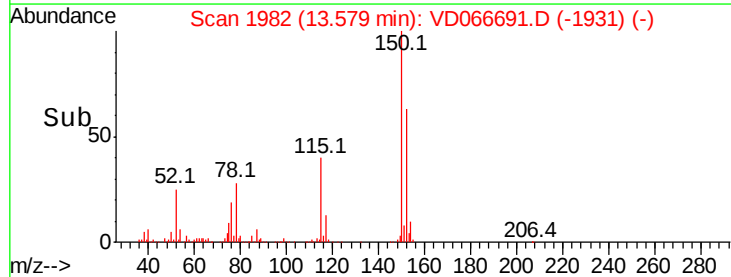
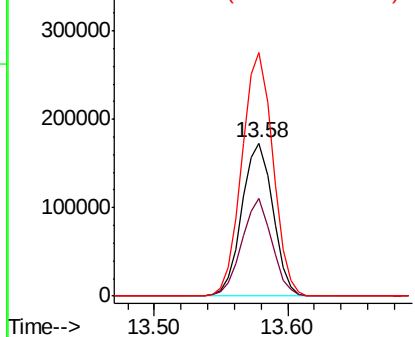


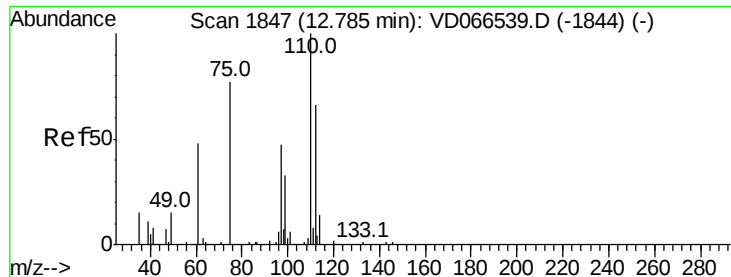
Abundance

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: 59.102 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

Instrument :

MSVOA_D

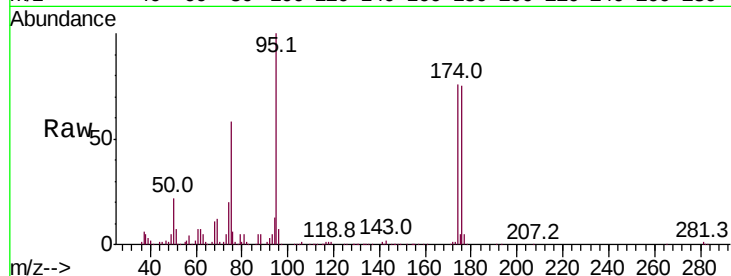
ClientSampled :

Tot Ion: 75 Resp: 158243

Ion Ratio Lower Upper

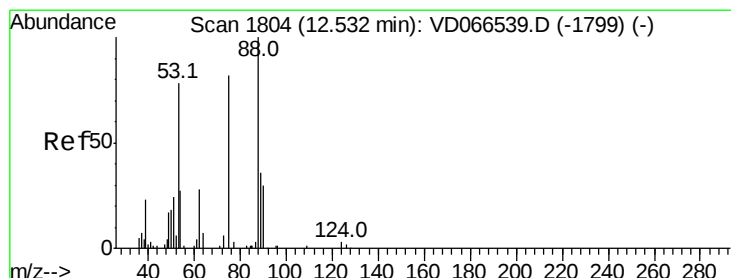
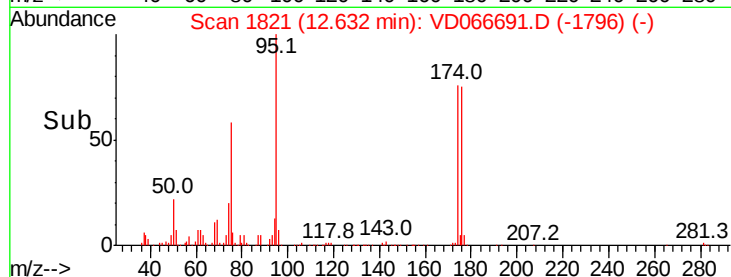
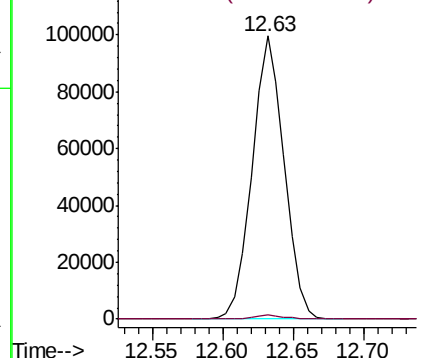
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 137.983 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066691.D

Acq: 15 Sep 2020 01:11

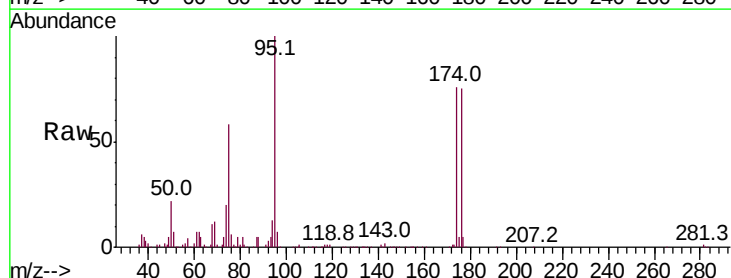
Tgt Ion: 75 Resp: 158243

Ion Ratio Lower Upper

75 100

53 0.2 87.0 130.4#

89 0.0 37.1 55.7#



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

