

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101620\
 Data File : VD067295.D
 Acq On : 16 Oct 2020 13:18
 Operator : VA/SY
 Sample : L4219-09
 Misc : 7.20G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-02-101520

Quant Time: Oct 17 00:39:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 14 03:30:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	324947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	555848	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	554936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	274945	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	187654	57.64	ug/l	0.00
Spiked Amount			Recovery	=	115.28%	
35) Dibromofluoromethane	7.91	113	181855	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	10.34	98	663757	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.64	95	258244	55.48	ug/l	0.00
Spiked Amount			Recovery	=	110.96%	

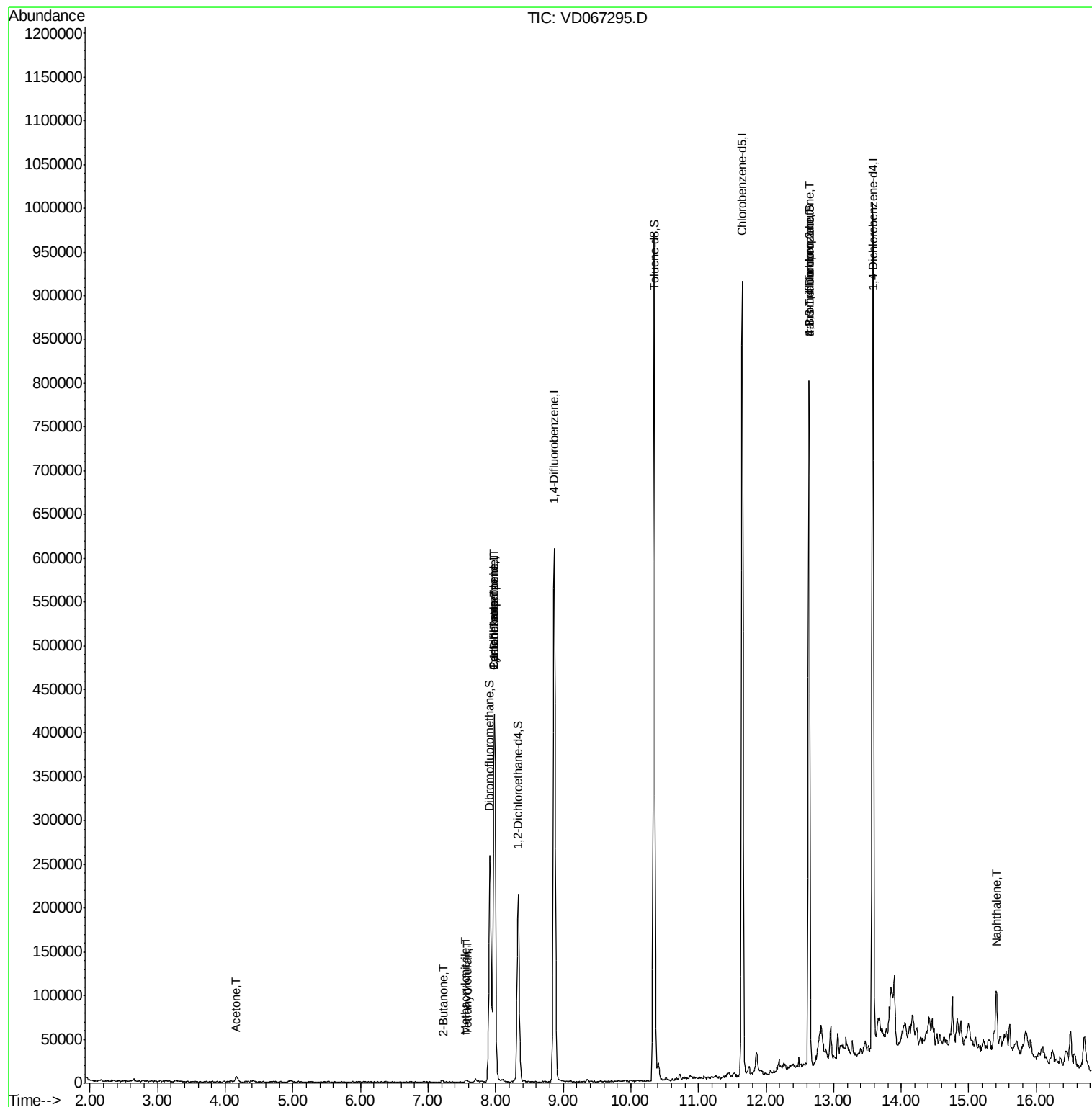
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	683	Below Cal	#	44
5) Bromomethane	2.79	94	553	Below Cal		91
16) Acetone	4.16	43	10619	23.291	ug/l #	79
20) Methylene Chloride	4.97	84	1632	Below Cal	#	56
25) 2-Butanone	7.23	43	1608	3.094	ug/l #	45
29) Tetrahydrofuran	7.58	42	924	3.198	ug/l #	14
31) Cyclohexane	7.98	56	6557	1.749	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	22805	4.841	ug/l #	48
38) Carbon Tetrachloride	7.98	117	34857	5.789	ug/l #	17
41) Methacrylonitrile	7.56	41	793	1.059	ug/l #	29
76) 1,2,3-Trichloropropane	12.64	75	130819	68.649	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	130819	155.675	ug/l #	10
95) Naphthalene	15.41	128	64292	7.940	ug/l	97

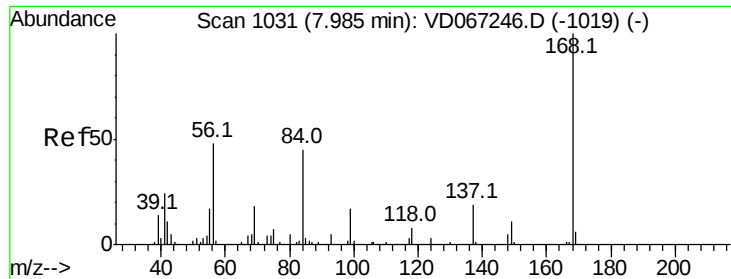
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

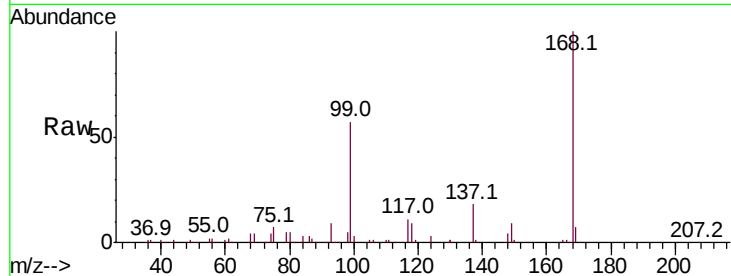
CL-02-101520

Tot Ion:168 Resp: 324947

Ion Ratio Lower Upper

168 100

99 56.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

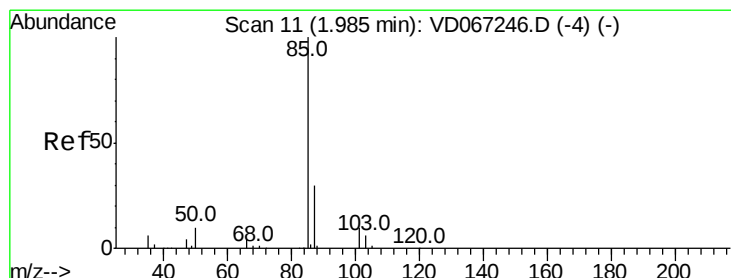
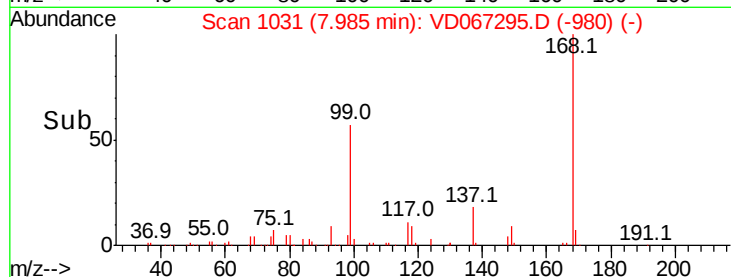
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067295.D

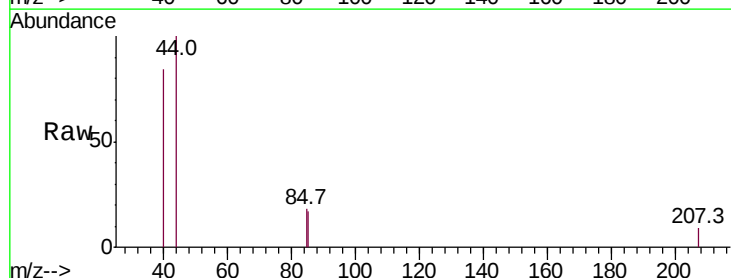
Acq: 16 Oct 2020 13:18

Tgt Ion: 85 Resp: 683

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

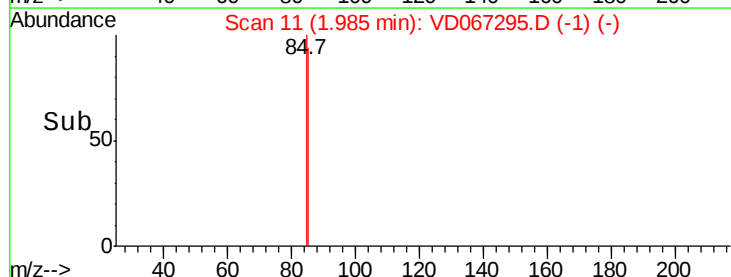
600

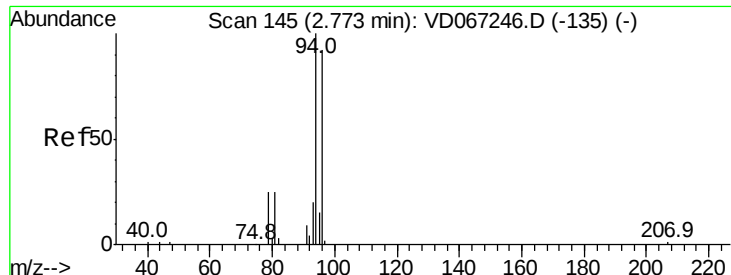
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

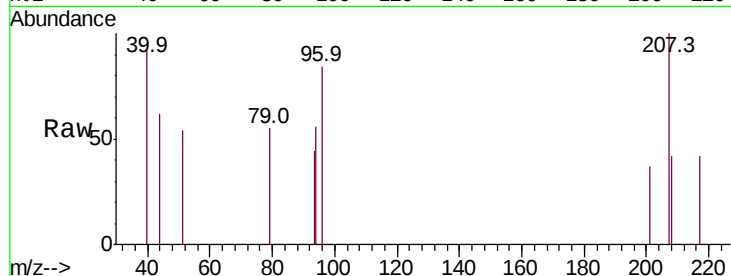
CL-02-101520

Tot Ion: 94 Resp: 553

Ion Ratio Lower Upper

94 100

96 83.9 73.8 110.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.79

400

300

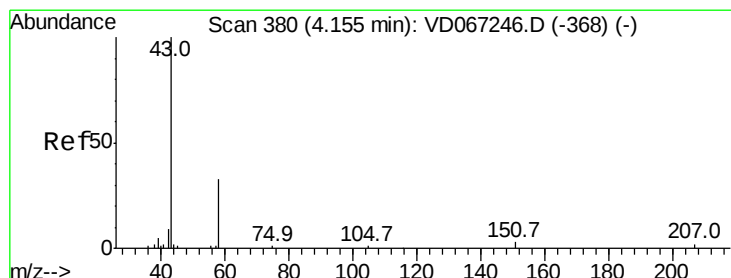
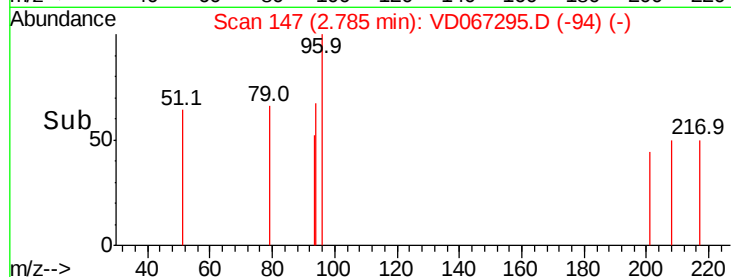
200

100

0

2.74 2.76 2.78 2.80 2.82

Time-->



#16

Acetone

Concen: 23.291 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067295.D

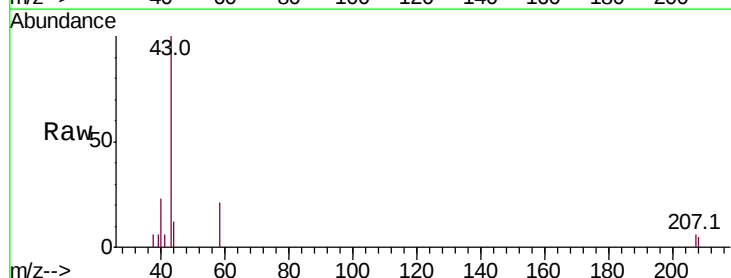
Acq: 16 Oct 2020 13:18

Tgt Ion: 43 Resp: 10619

Ion Ratio Lower Upper

43 100

58 21.1 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

4000

3000

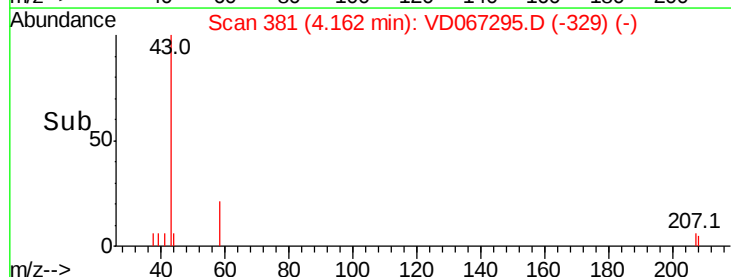
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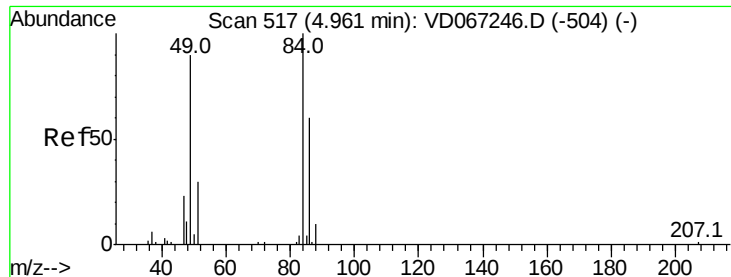
1000

0

4.05 4.10 4.15 4.20 4.25

Time-->

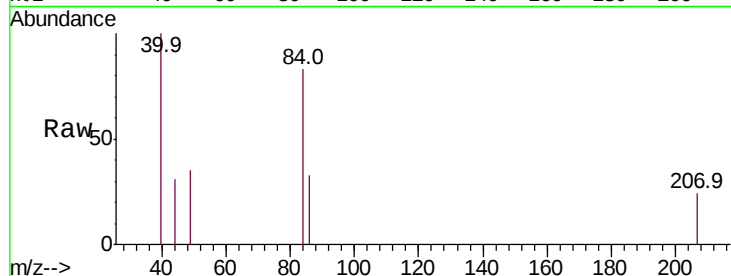




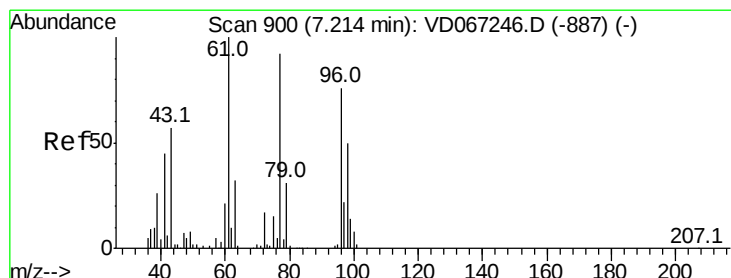
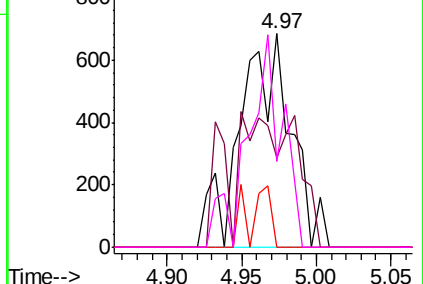
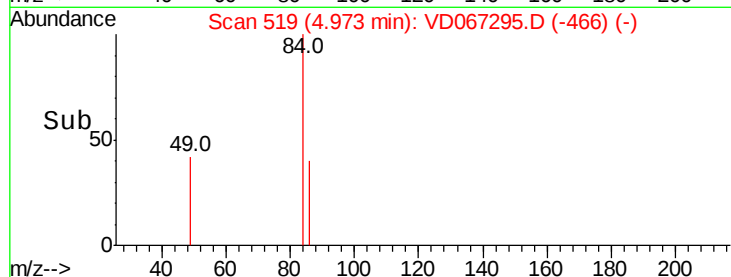
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD067295.D
Acq: 16 Oct 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
CL-02-101520

Tot Ion: 84 Resp: 1632
Ion Ratio Lower Upper
84 100
49 41.9 72.2 108.2#
51 0.0 23.8 35.8#
86 40.1 48.2 72.4#

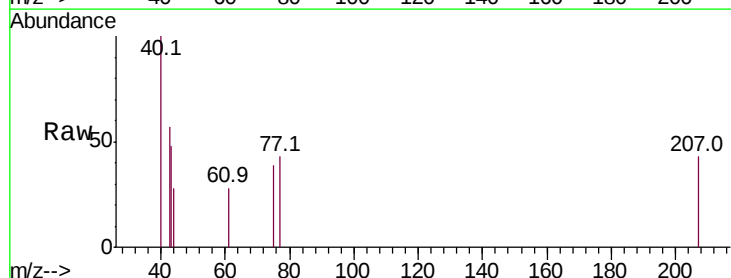


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

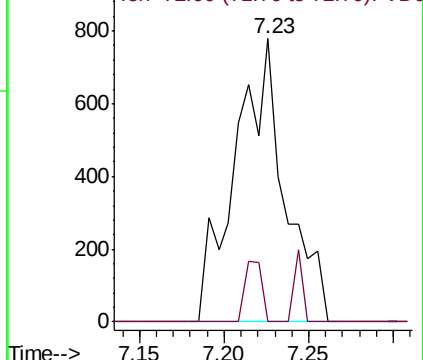
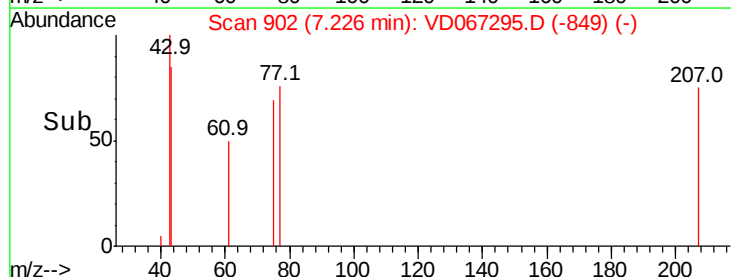


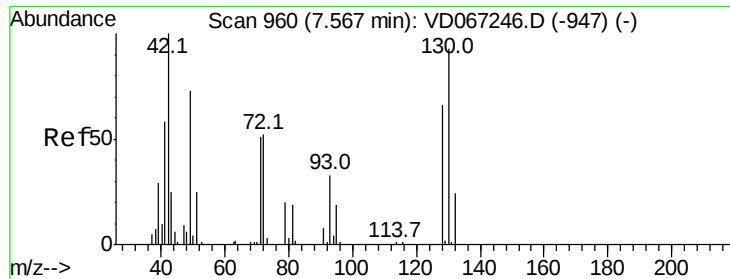
#25
2-Butanone
Concen: 3.094 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD067295.D
Acq: 16 Oct 2020 13:18

Tgt Ion: 43 Resp: 1608
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC

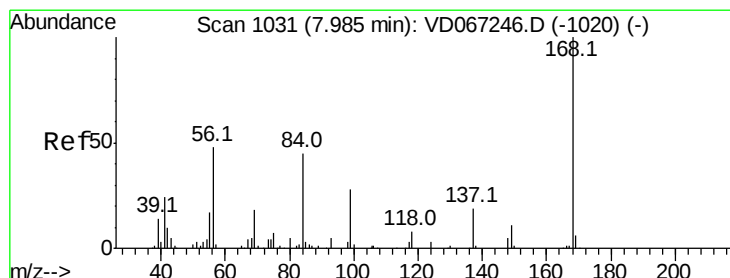
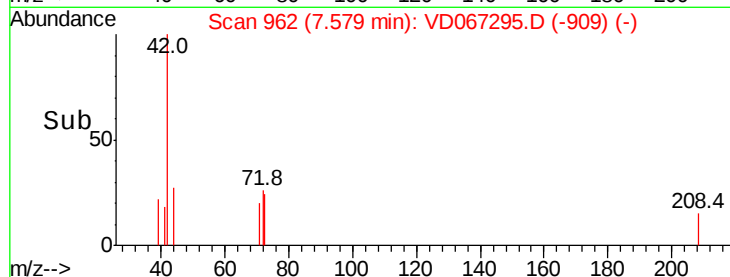
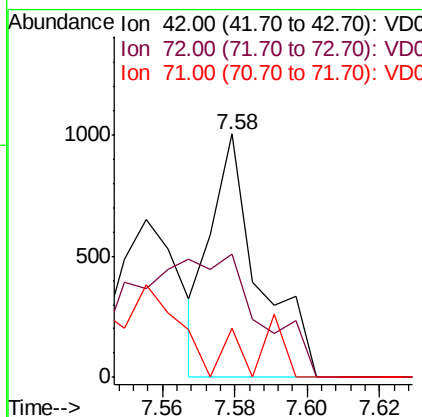
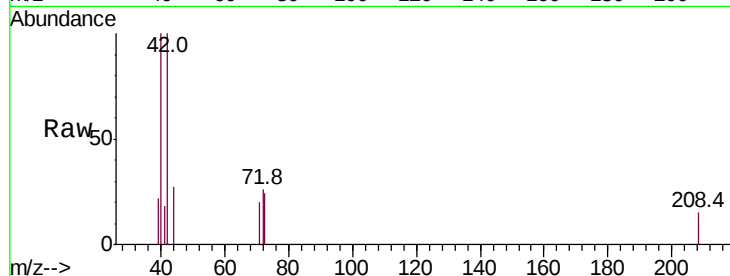




#29
Tetrahydrofuran
Concen: 3.198 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD067295.D
Acq: 16 Oct 2020 13:18

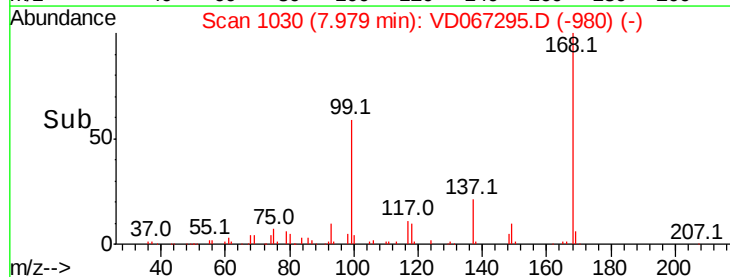
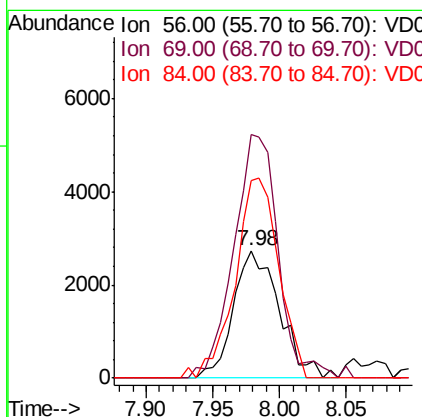
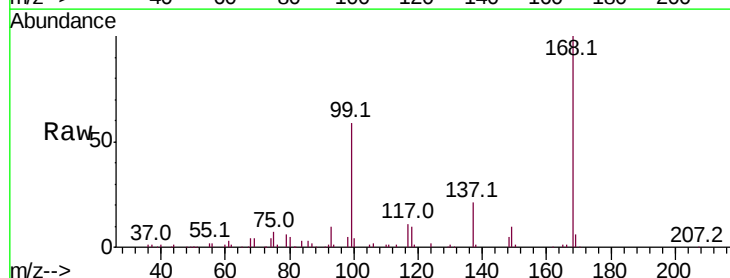
Instrument :
MSVOA_D
ClientSampleId :
CL-02-101520

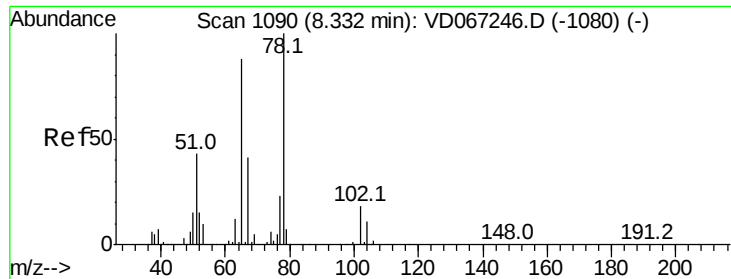
Tot Ion: 42 Resp: 924
Ion Ratio Lower Upper
42 100
72 131.9 43.2 64.8#
71 7.8 39.4 59.0#



#31
Cyclohexane
Concen: 1.749 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067295.D
Acq: 16 Oct 2020 13:18

Tgt Ion: 56 Resp: 6557
Ion Ratio Lower Upper
56 100
69 190.7 29.8 44.6#
84 154.9 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 57.642 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

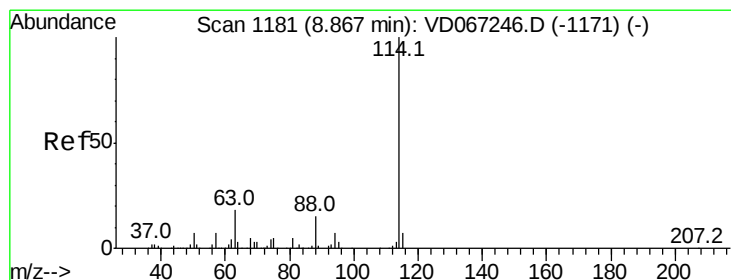
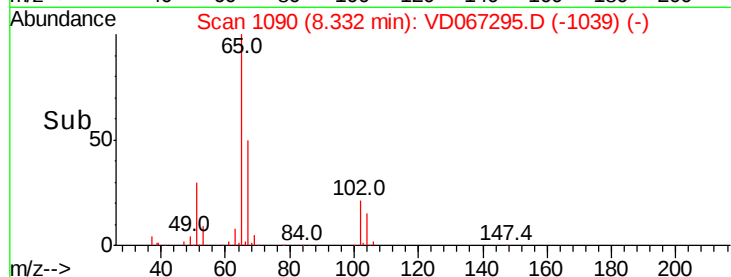
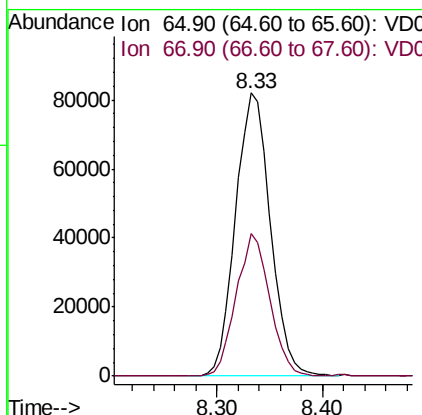
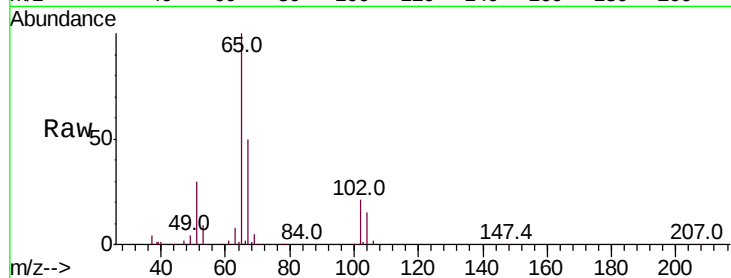
Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
CL-02-101520

Tot Ion: 65 Resp: 187654

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

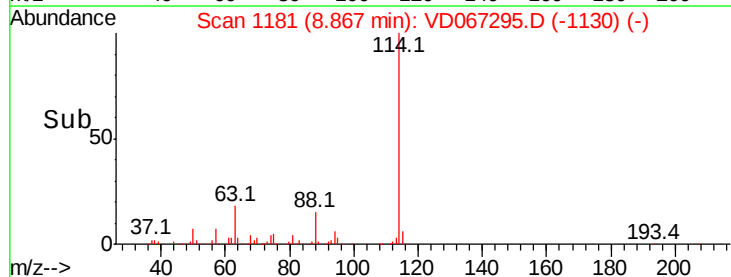
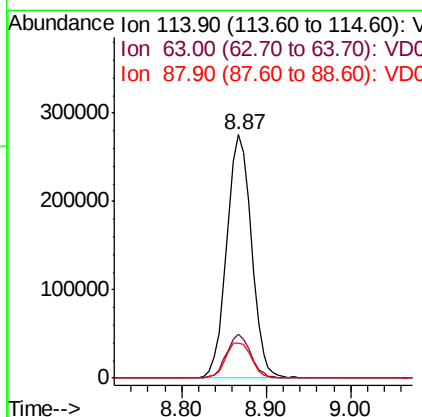
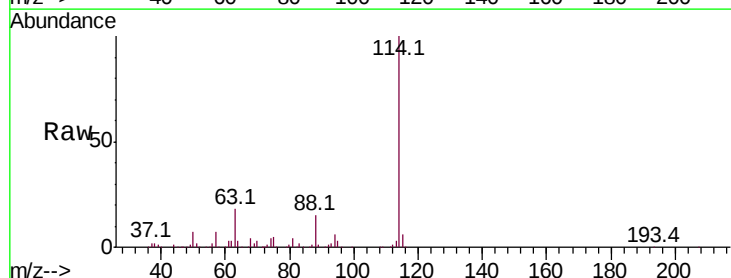
Delta R.T. 0.00 min

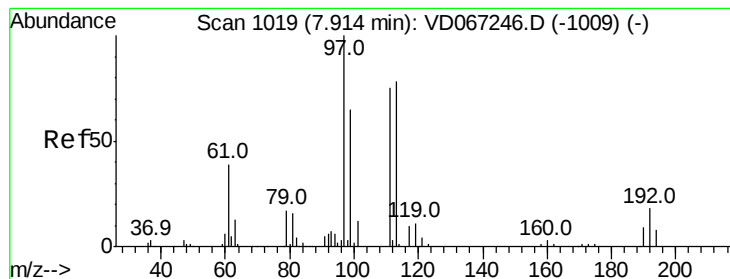
Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Tgt Ion: 114 Resp: 555848

Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	35.0
88	14.5	0.0	30.6





#35

Dibromofluoromethane

Concen: 49.161 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

CL-02-101520

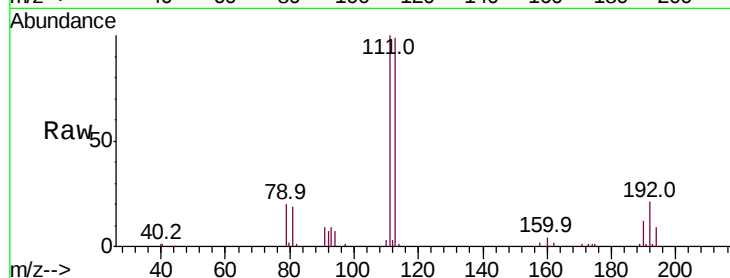
Tot Ion:113 Resp: 181855

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

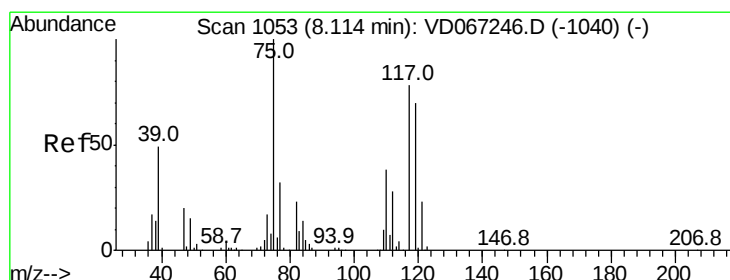
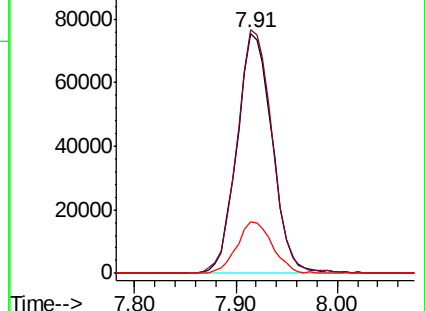
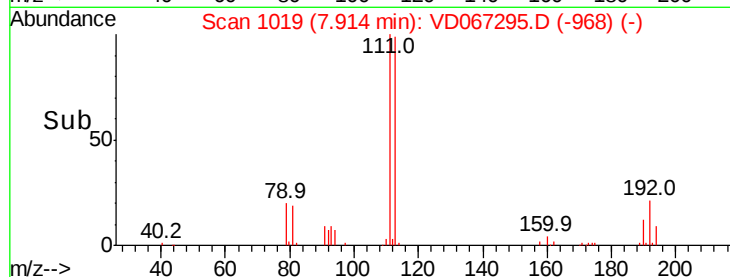
192 21.4 17.0 25.4



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: 4.841 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

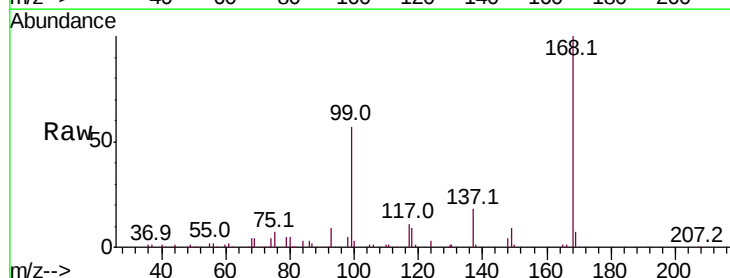
Tgt Ion: 75 Resp: 22805

Ion Ratio Lower Upper

75 100

110 9.0 19.6 58.7#

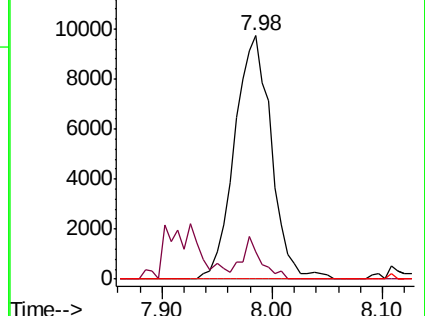
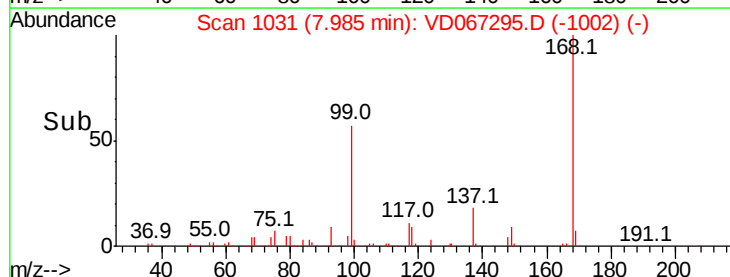
77 0.0 24.6 37.0#

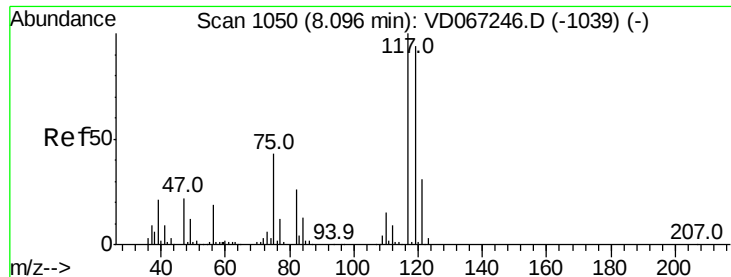


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.789 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

CL-02-101520

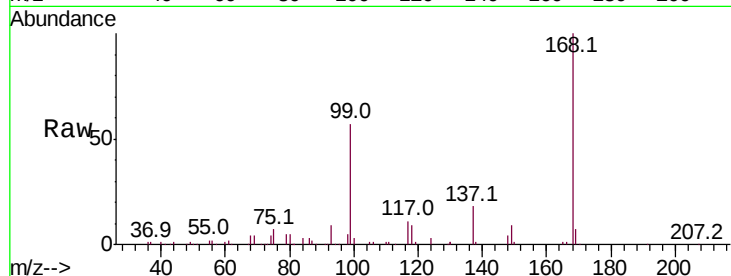
Tot Ion:117 Resp: 34857

Ion Ratio Lower Upper

117 100

119 4.8 75.0 112.4#

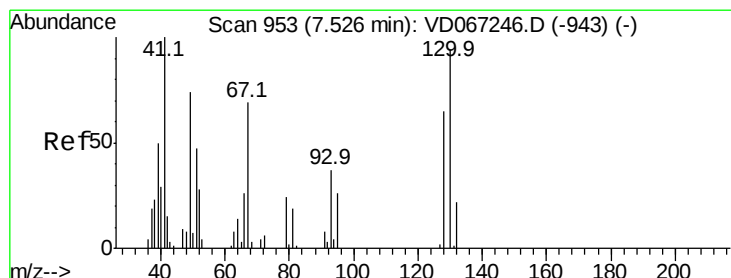
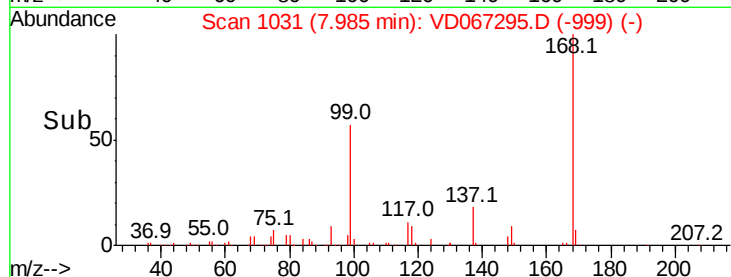
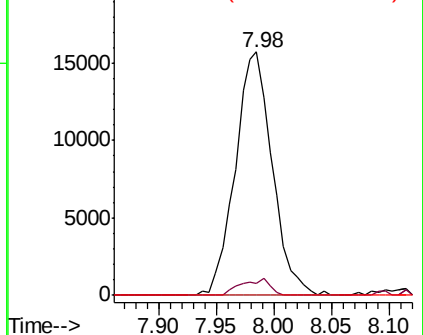
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 1.059 ug/l

RT: 7.56 min Scan# 959

Delta R.T. 0.04 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Tgt Ion: 41 Resp: 793

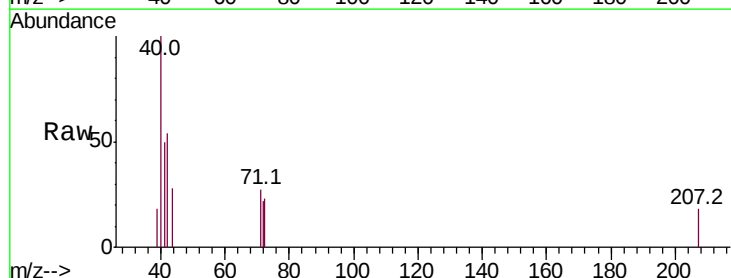
Ion Ratio Lower Upper

41 100

39 55.6 60.0 90.0#

67 0.0 88.9 133.3#

52 0.0 36.9 55.3#

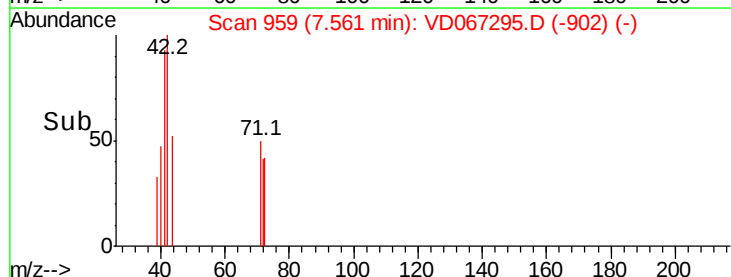
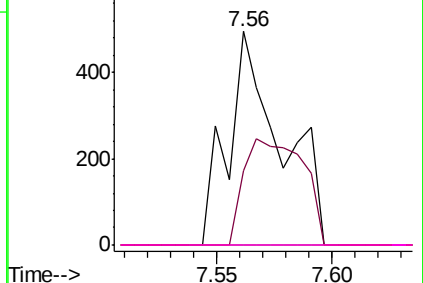


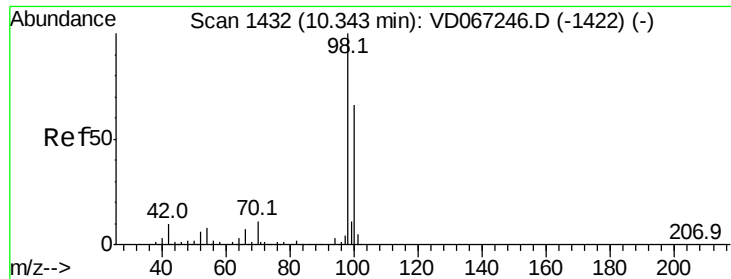
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#50

Toluene-d8

Concen: 49.582 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

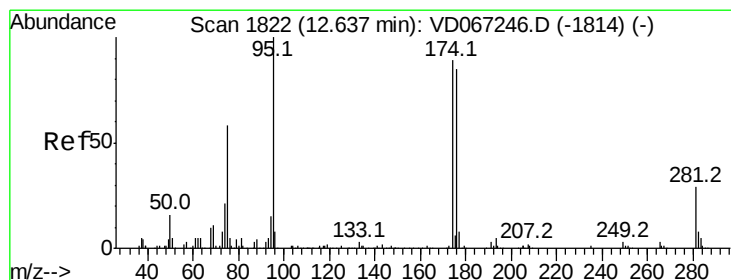
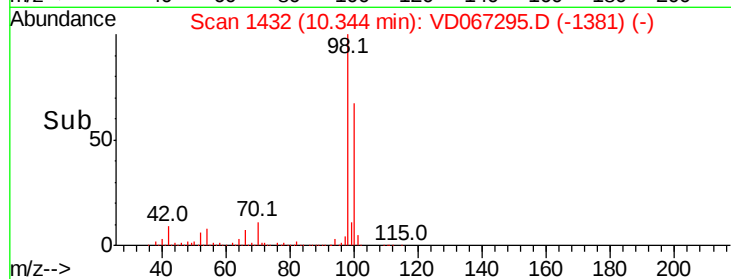
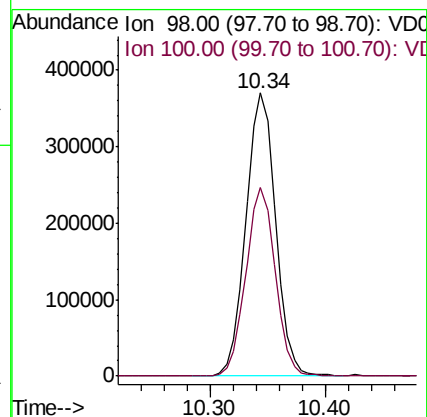
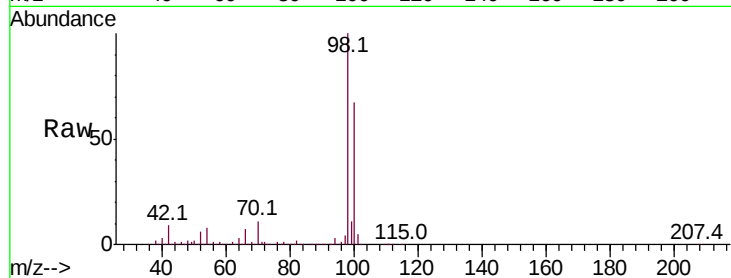
CL-02-101520

Tot Ion: 98 Resp: 663757

Ion Ratio Lower Upper

98 100

100 66.2 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 55.477 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

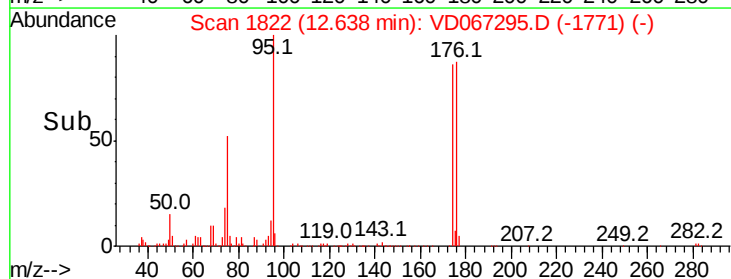
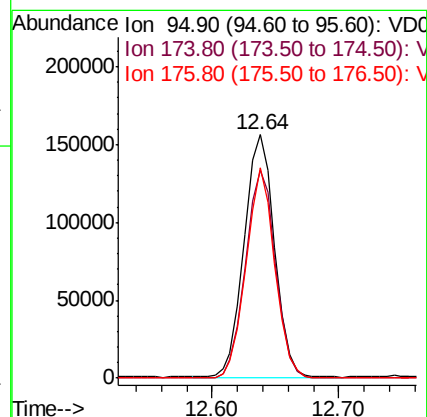
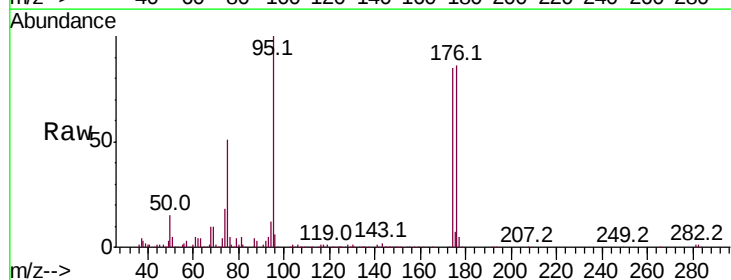
Tgt Ion: 95 Resp: 258244

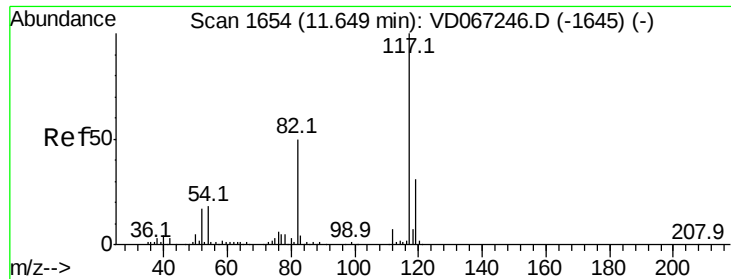
Ion Ratio Lower Upper

95 100

174 85.0 0.0 175.2

176 82.1 0.0 168.6

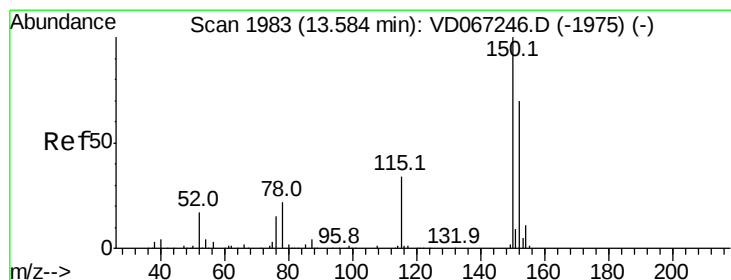
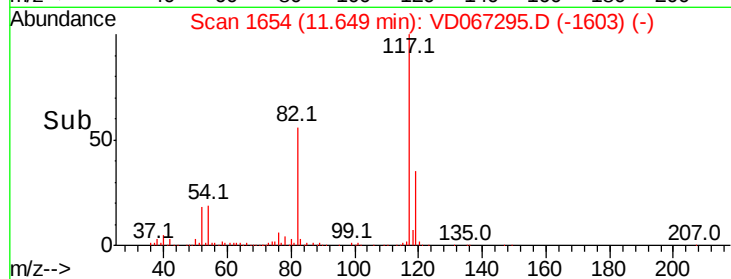
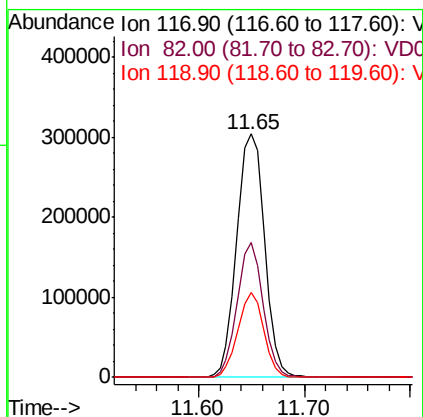
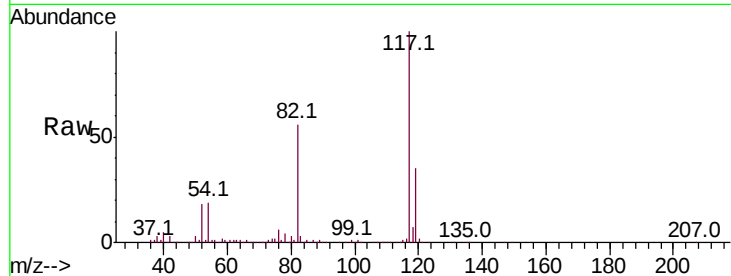




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067295.D
Acq: 16 Oct 2020 13:18

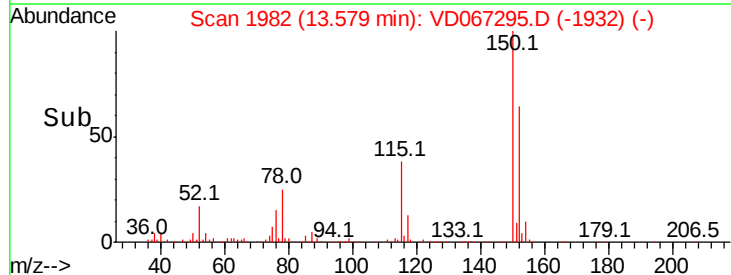
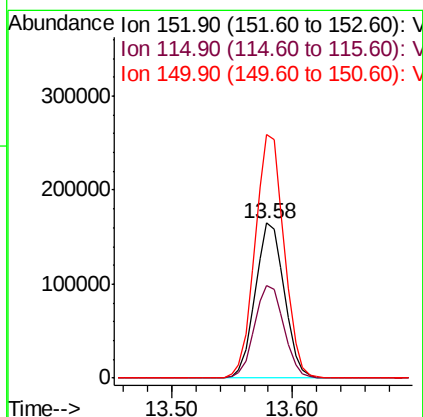
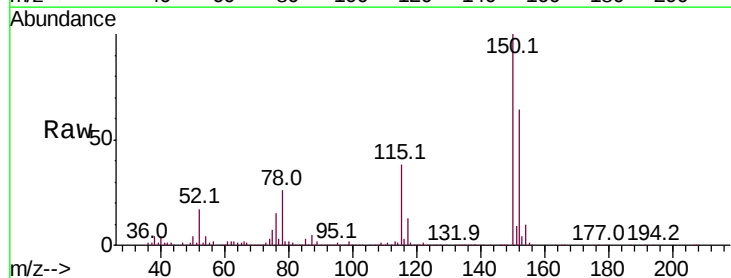
Instrument :
MSVOA_D
ClientSampleId :
CL-02-101520

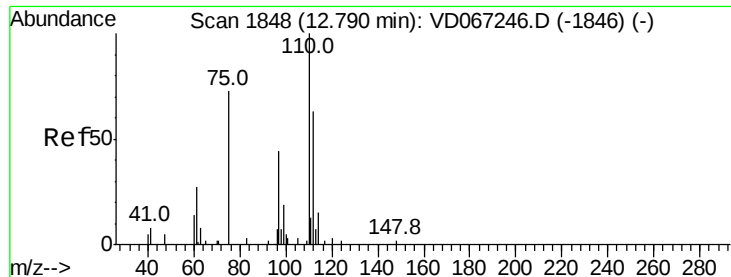
Tot Ion:117 Resp: 554936
Ion Ratio Lower Upper
117 100
82 55.6 39.9 59.9
119 34.9 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067295.D
Acq: 16 Oct 2020 13:18

Tgt Ion:152 Resp: 274945
Ion Ratio Lower Upper
152 100
115 60.9 29.3 87.9
150 157.2 0.0 339.0





#76

1,2,3-Trichloropropane

Concen: 68.649 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

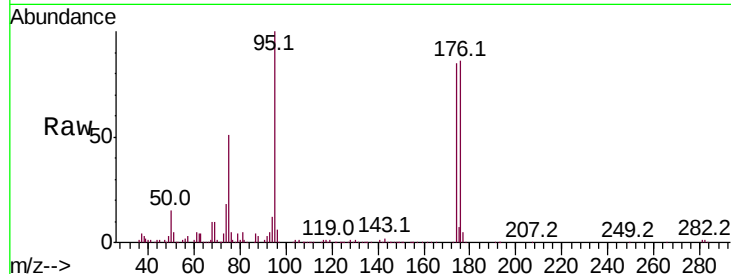
CL-02-101520

Tot Ion: 75 Resp: 130819

Ion Ratio Lower Upper

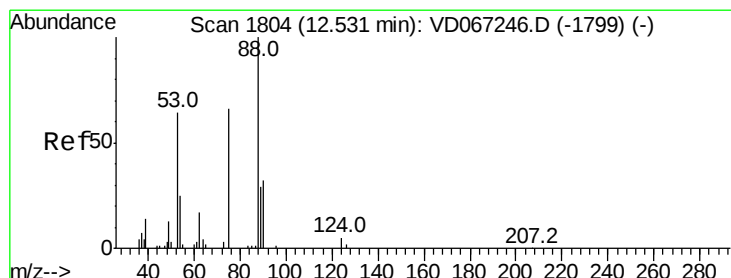
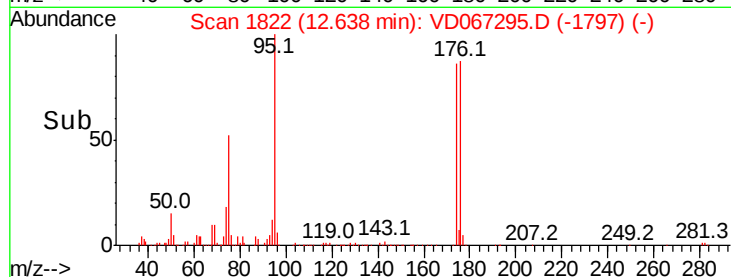
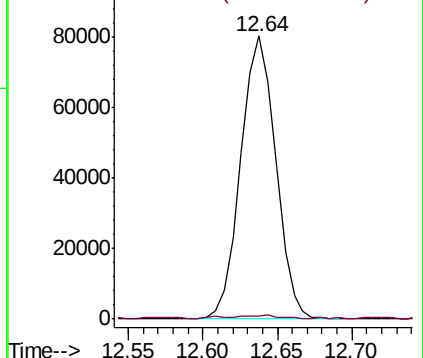
75 100

77 1.3 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: 155.675 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067295.D

Acq: 16 Oct 2020 13:18

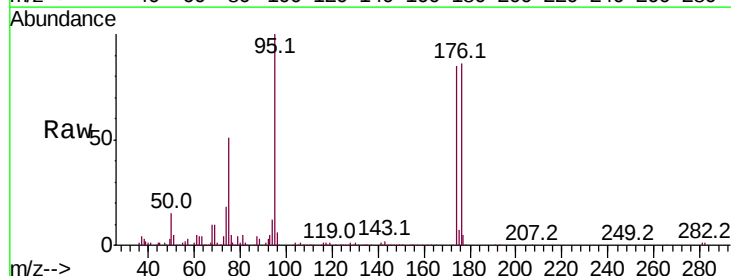
Tgt Ion: 75 Resp: 130819

Ion Ratio Lower Upper

75 100

53 0.3 78.5 117.7#

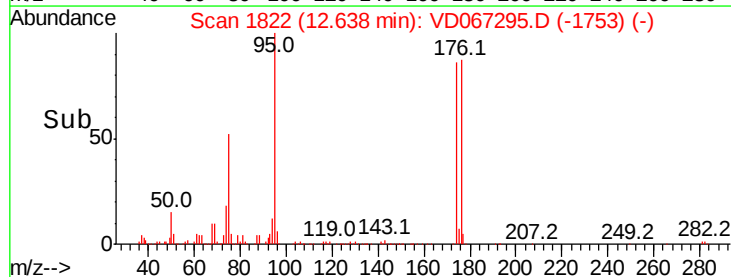
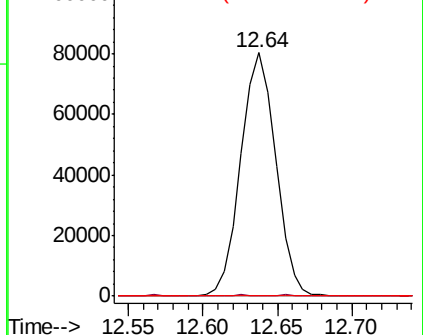
89 0.0 39.9 59.9#

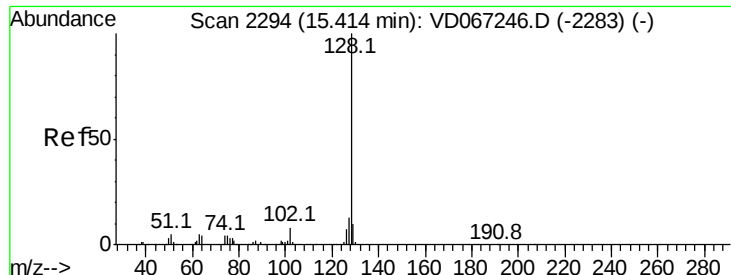


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

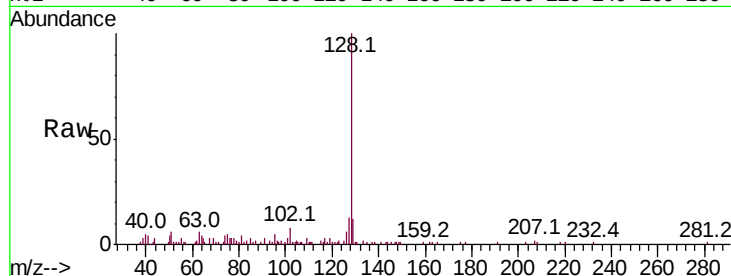




#95
Naphthalene
Concen: 7.940 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD067295.D
Acq: 16 Oct 2020 13:18

Instrument :
MSVOA_D
ClientSampleId :
CL-02-101520

Tot Ion:128 Resp: 64292
Ion Ratio Lower Upper
128 100
127 15.0 10.4 15.6
129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

