

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102620\
 Data File : VD067400.D
 Acq On : 26 Oct 2020 18:48
 Operator : VA/SY
 Sample : L4510-14
 Misc : 5.61G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-14

Quant Time: Oct 27 00:53:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	300310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	484178	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	474960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	231317	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	157978	52.51	ug/l	0.00
Spiked Amount			Recovery	=	105.02%	
35) Dibromofluoromethane	7.92	113	161184	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
50) Toluene-d8	10.34	98	572649	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	12.64	95	199086	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	

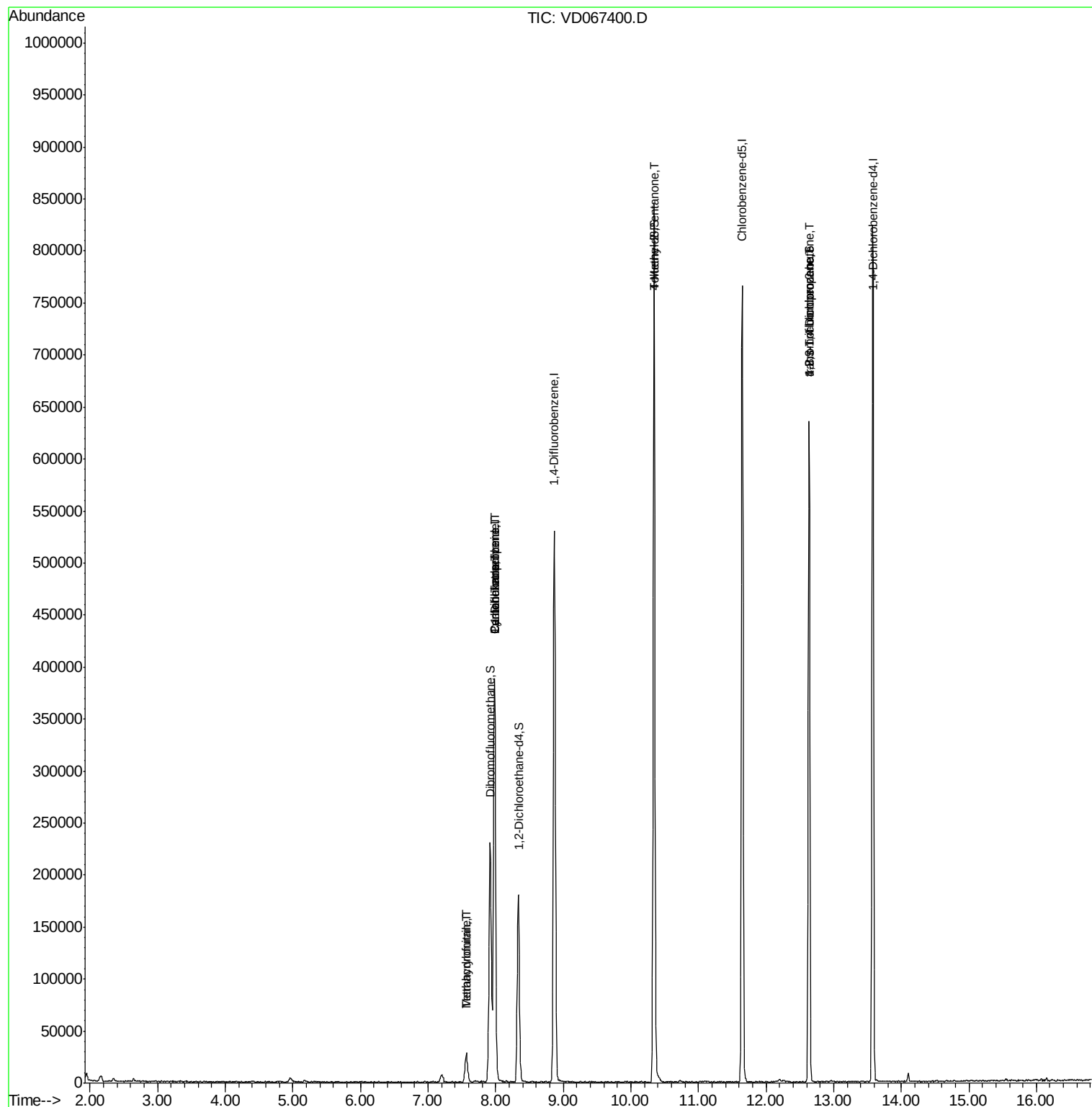
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	55	Below Cal	#	44
5) Bromomethane	2.77	94	71	Below Cal	#	12
11) Tert butyl alcohol	5.19	59	1175	Below Cal	#	81
20) Methylene Chloride	4.96	84	3230	Below Cal	#	82
29) Tetrahydrofuran	7.57	42	18722	70.121	ug/l	95
31) Cyclohexane	7.98	56	6208	1.791	ug/l #	35
36) 1,1-Dichloropropene	7.98	75	21271	5.183	ug/l #	41
38) Carbon Tetrachloride	7.98	117	31055	5.921	ug/l #	16
41) Methacrylonitrile	7.57	41	11676	17.895	ug/l #	33
51) 4-Methyl-2-Pentanone	10.34	43	1811	1.516	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	105243	65.644	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	105243	148.860	ug/l #	10

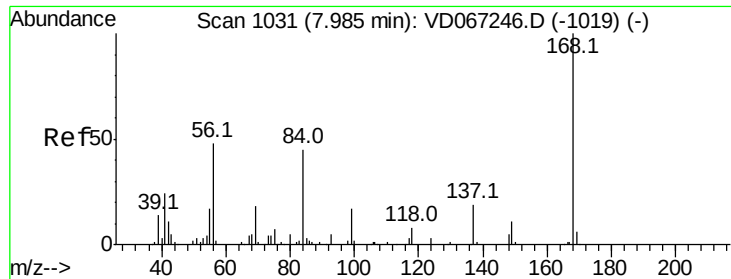
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067400.D

Acq: 26 Oct 2020 18:48

Instrument :

MSVOA_D

ClientSampleId :

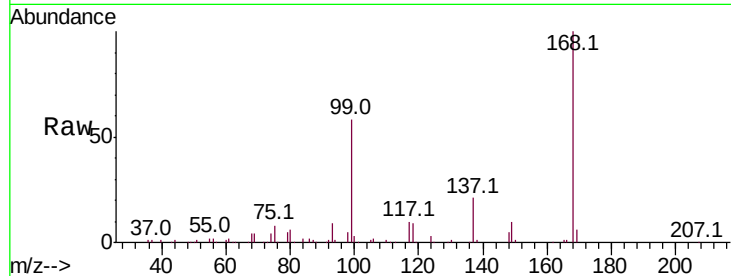
VOC-14

Tot Ion:168 Resp: 300310

Ion Ratio Lower Upper

168 100

99 58.5 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

150000

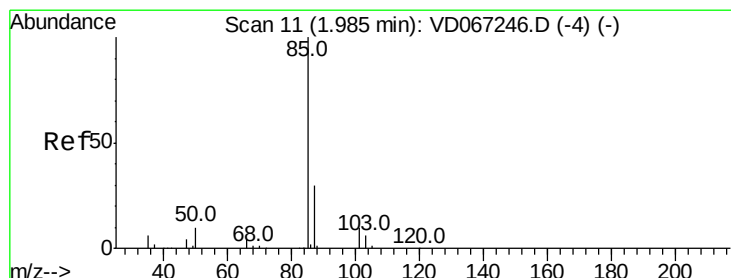
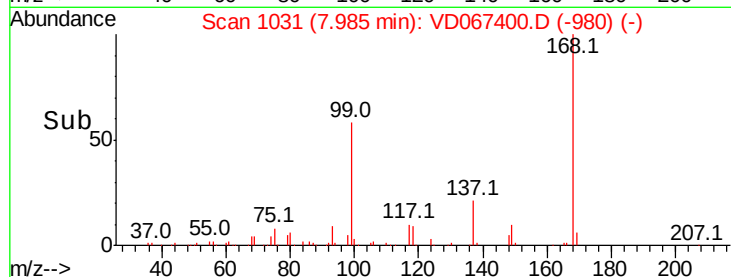
7.98

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067400.D

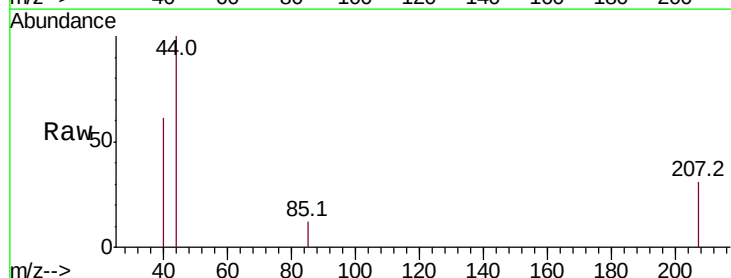
Acq: 26 Oct 2020 18:48

Tgt Ion: 85 Resp: 55

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

150

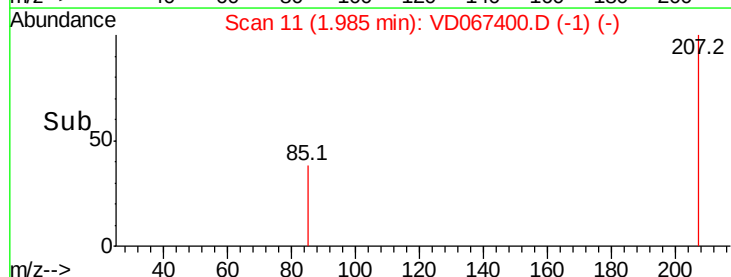
1.99

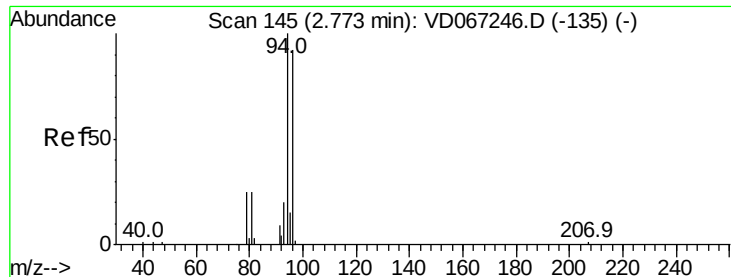
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067400.D

Acq: 26 Oct 2020 18:48

Instrument :

MSVOA_D

ClientSampled :

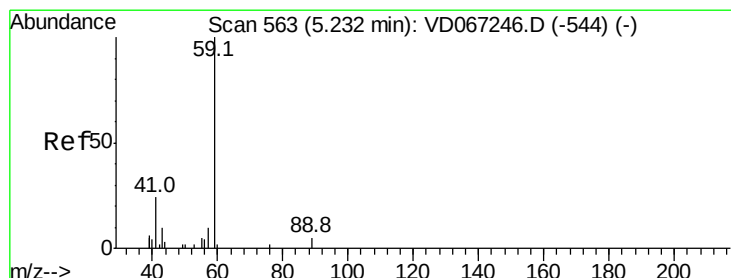
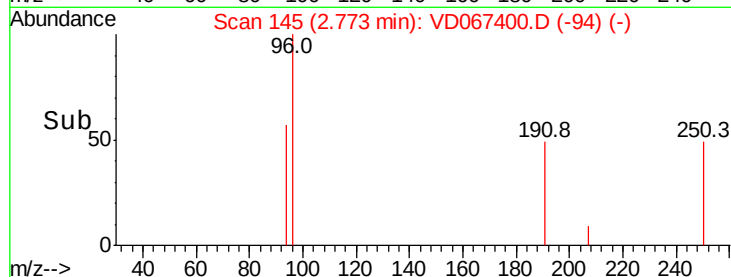
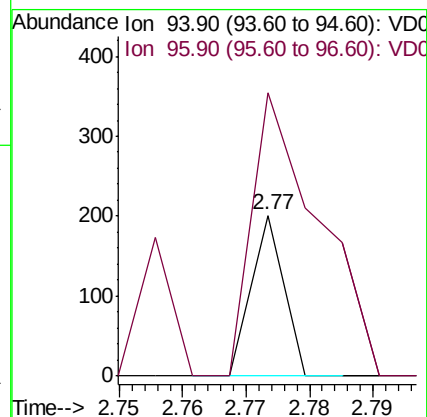
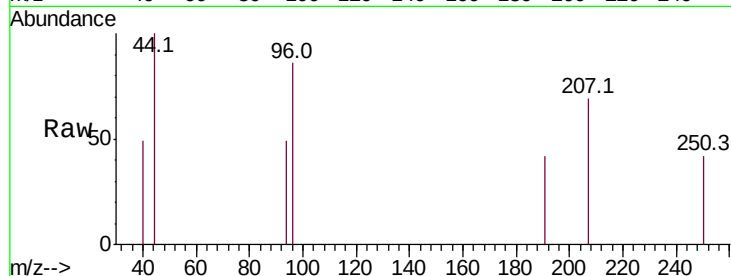
VOC-14

Tot Ion: 94 Resp: 71

Ion Ratio Lower Upper

94 100

96 176.1 73.8 110.6#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 556

Delta R.T. -0.04 min

Lab File: VD067400.D

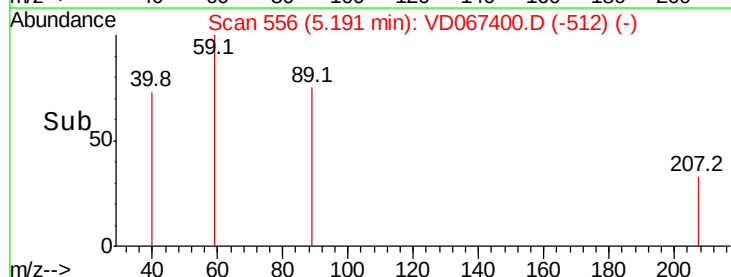
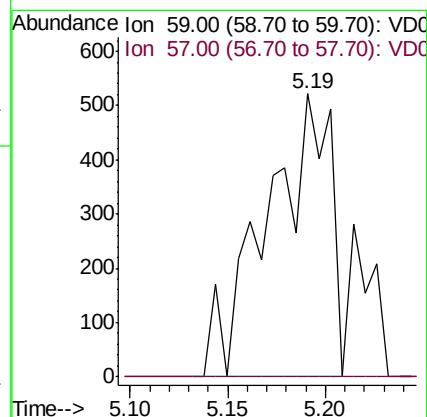
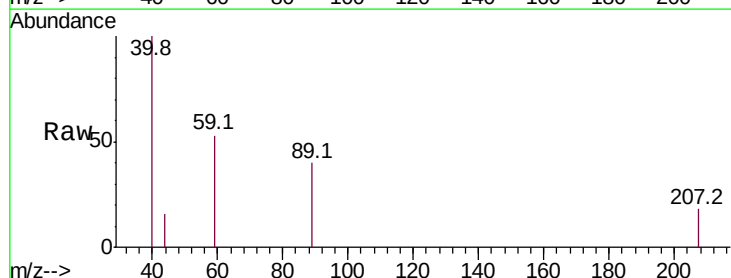
Acq: 26 Oct 2020 18:48

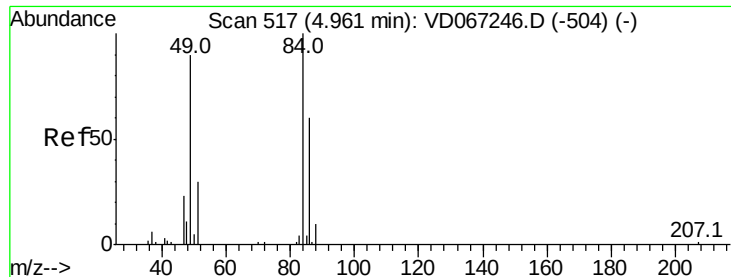
Tgt Ion: 59 Resp: 1175

Ion Ratio Lower Upper

59 100

57 0.0 5.1 7.7#

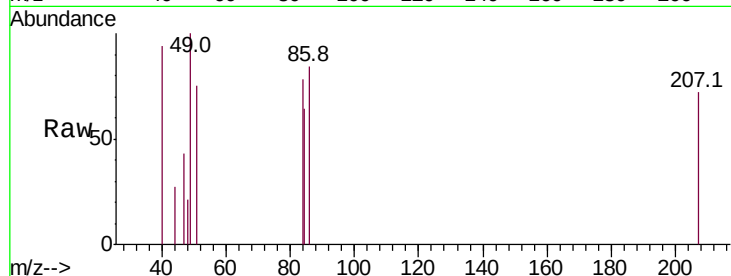




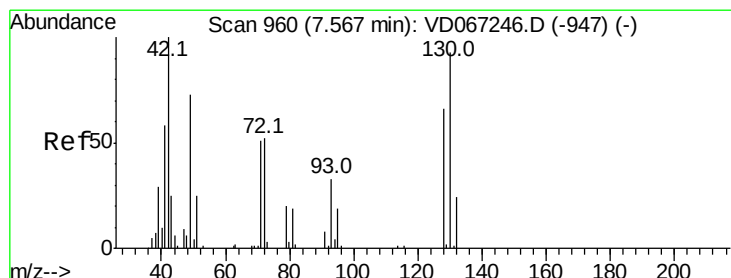
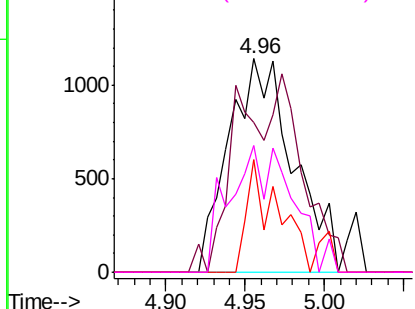
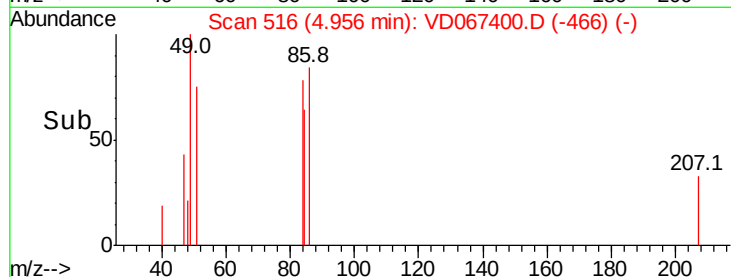
#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD067400.D
Acq: 26 Oct 2020 18:48

Instrument :
MSVOA_D
ClientSampleId :
VOC-14

Tot Ion: 84 Resp: 3230
Ion Ratio Lower Upper
84 100
49 70.4 72.2 108.2#
51 52.9 23.8 35.8#
86 59.2 48.2 72.4

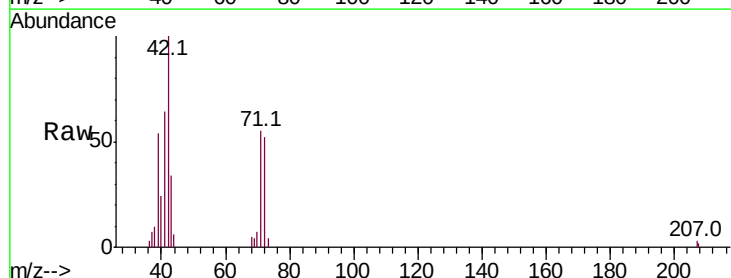


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

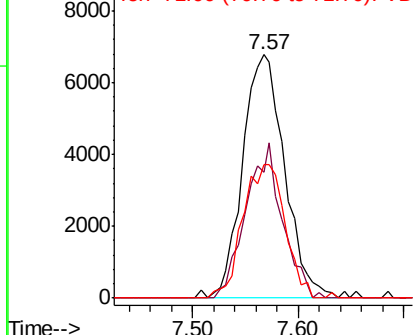
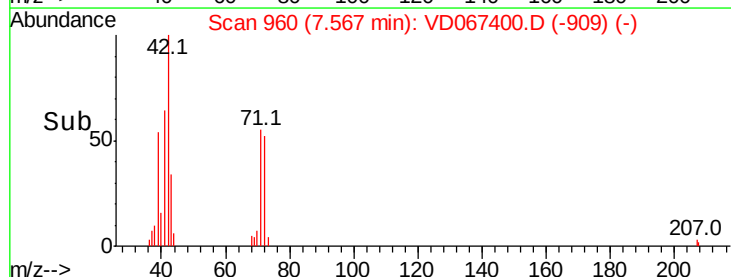


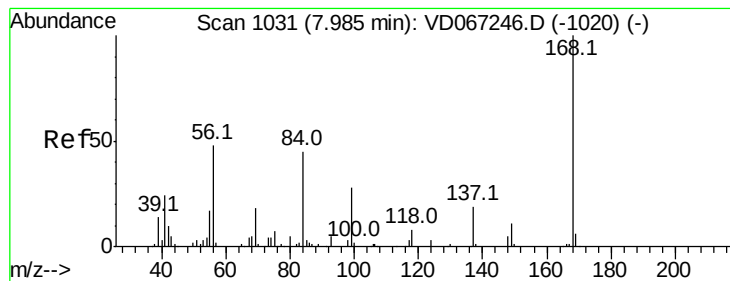
#29
Tetrahydrofuran
Concen: 70.121 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.00 min
Lab File: VD067400.D
Acq: 26 Oct 2020 18:48

Tgt Ion: 42 Resp: 18722
Ion Ratio Lower Upper
42 100
72 55.0 43.2 64.8
71 54.9 39.4 59.0



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.791 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067400.D

Acq: 26 Oct 2020 18:48

Instrument :

MSVOA_D

ClientSampleID :

VOC-14

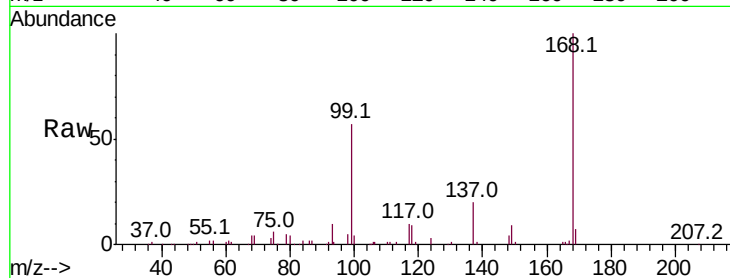
Tot Ion: 56 Resp: 6208

Ion Ratio Lower Upper

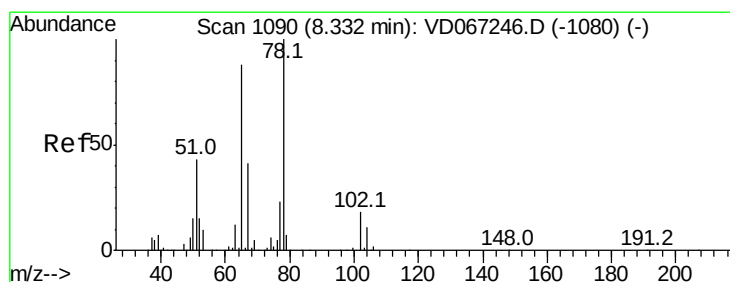
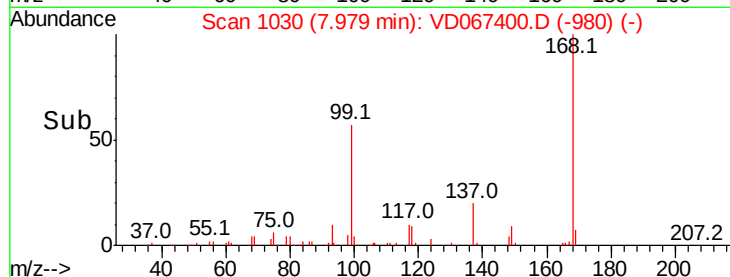
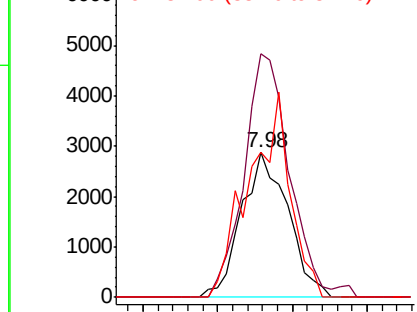
56 100

69 168.4 29.8 44.6#

84 100.6 76.6 114.8



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 52.508 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD067400.D

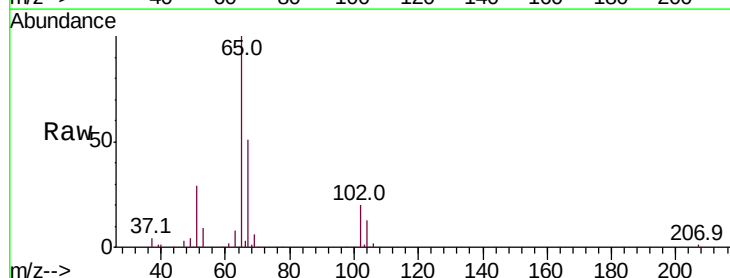
Acq: 26 Oct 2020 18:48

Tgt Ion: 65 Resp: 157978

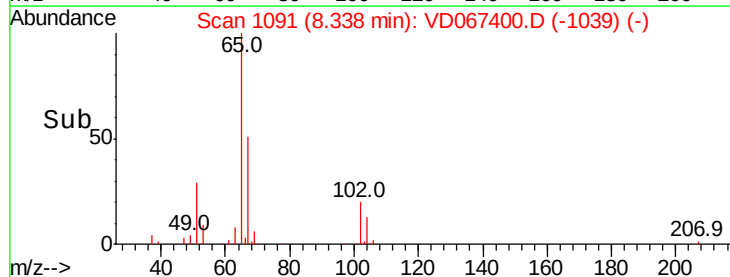
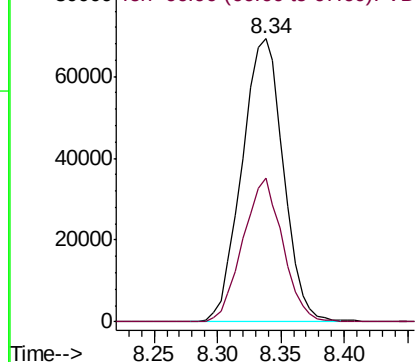
Ion Ratio Lower Upper

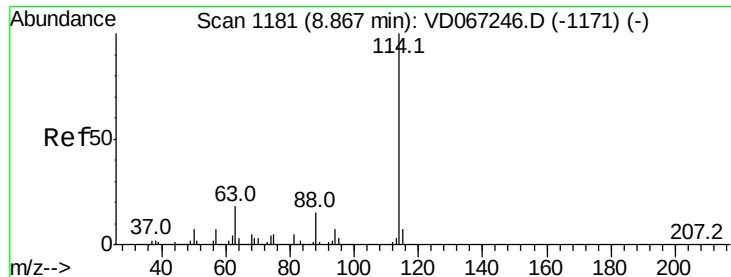
65 100

67 48.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

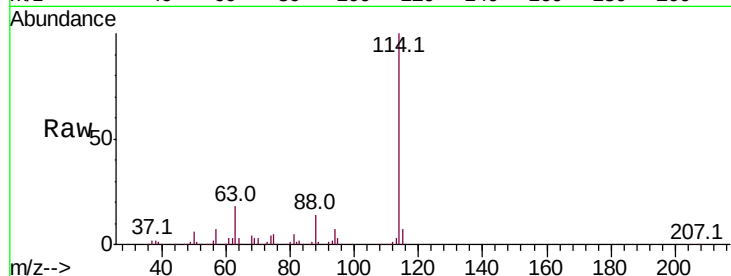




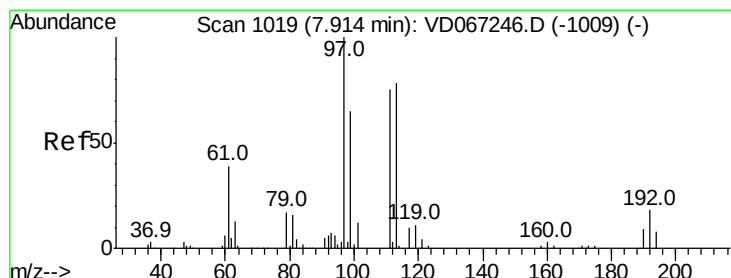
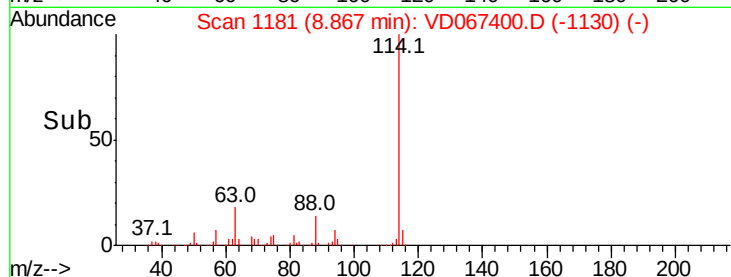
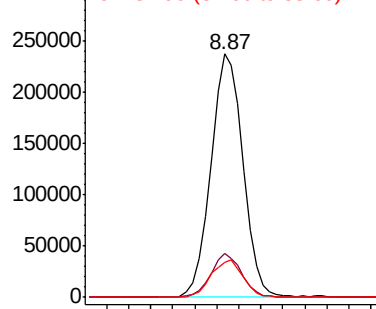
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD067400.D
 Acq: 26 Oct 2020 18:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-14

Tot Ion:114 Resp: 484178
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 35.0
 88 14.4 0.0 30.6

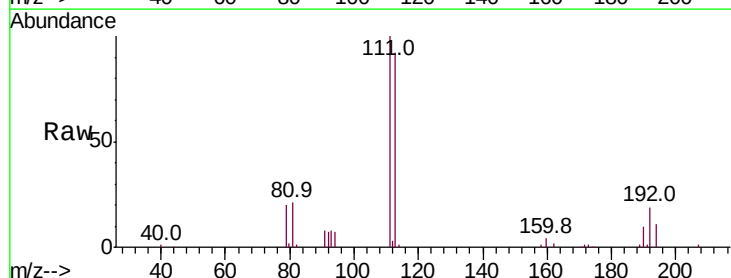


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

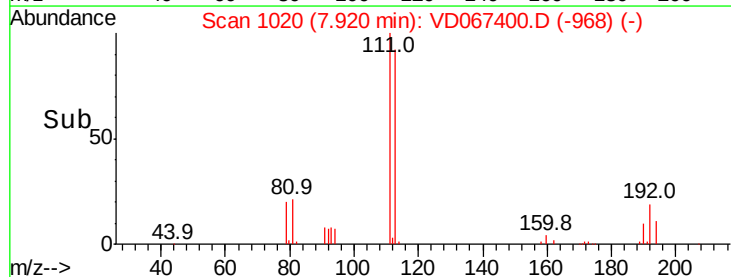
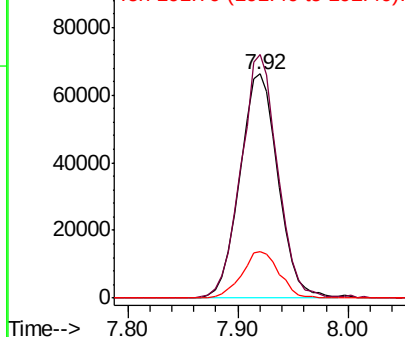


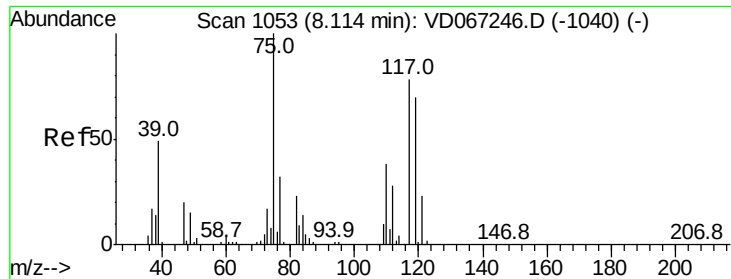
#35
 Dibromofluoromethane
 Concen: 50.023 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067400.D
 Acq: 26 Oct 2020 18:48

Tgt Ion:113 Resp: 161184
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.6 122.4
 192 20.2 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: 5.183 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067400.D

Acq: 26 Oct 2020 18:48

Instrument :

MSVOA_D

ClientSampleId :

VOC-14

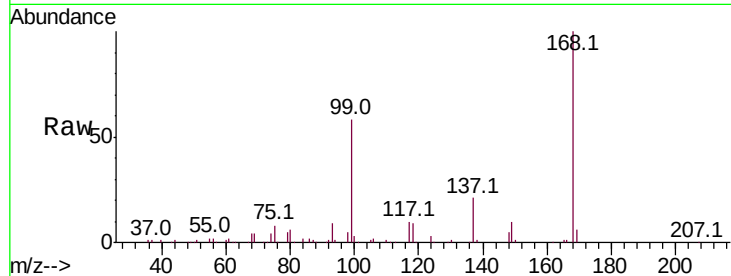
Tot Ion: 75 Resp: 21271

Ion Ratio Lower Upper

75 100

110 2.0 19.6 58.7#

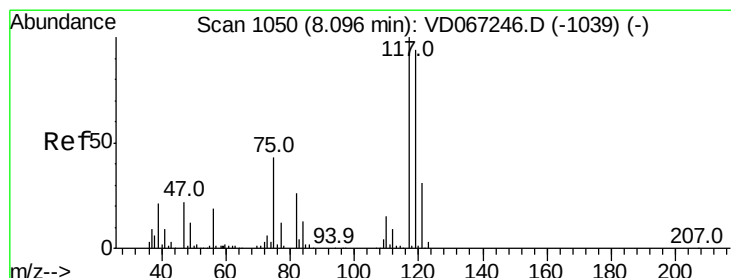
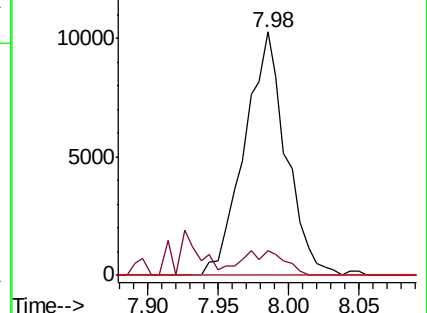
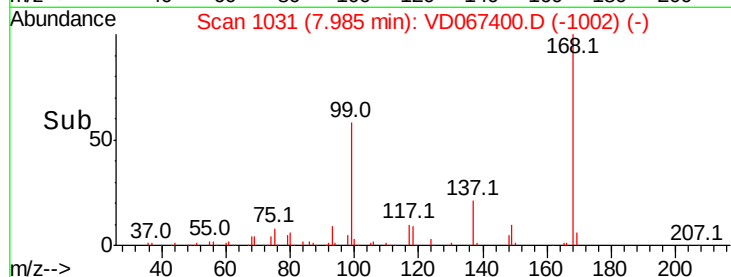
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VD067400.D (-1002) (-)

Ion 109.90 (109.60 to 110.60): VD067400.D (-1002) (-)

Ion 76.90 (76.60 to 77.60): VD067400.D (-1002) (-)



#38

Carbon Tetrachloride

Concen: 5.921 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067400.D

Acq: 26 Oct 2020 18:48

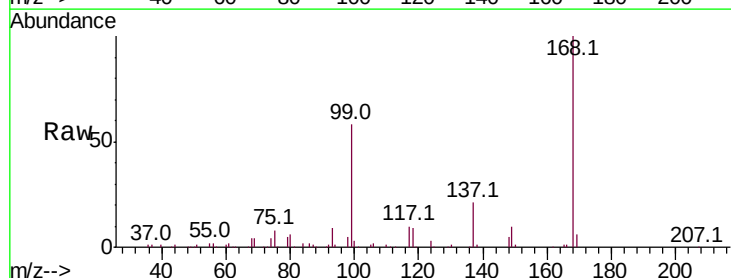
Tgt Ion: 117 Resp: 31055

Ion Ratio Lower Upper

117 100

119 4.4 75.0 112.4#

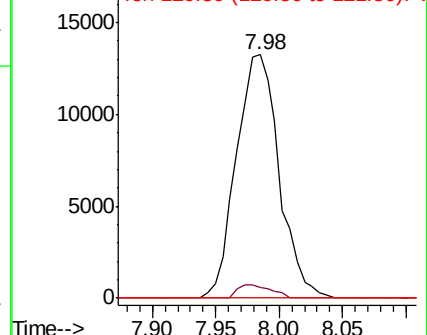
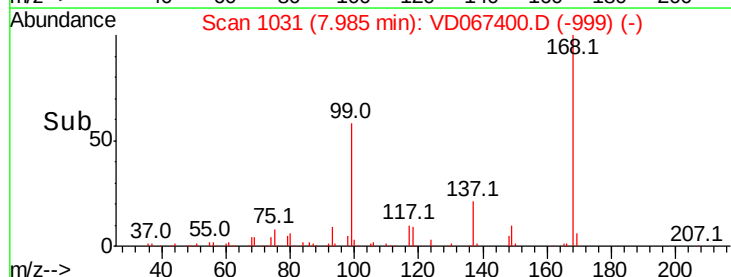
121 0.0 24.9 37.3#

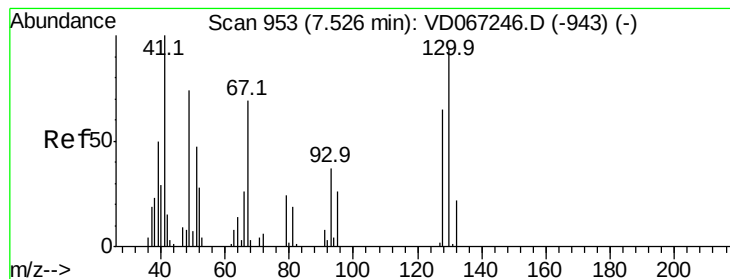


Abundance Ion 116.80 (116.50 to 117.50): VD067400.D (-999) (-)

Ion 118.80 (118.50 to 119.50): VD067400.D (-999) (-)

Ion 120.80 (120.50 to 121.50): VD067400.D (-999) (-)





#41

Methacrylonitrile

Concen: 17.895 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.04 min

Lab File: VD067400.D

Acq: 26 Oct 2020 18:48

Instrument :

MSVOA_D

ClientSampleId :

VOC-14

Tot Ion: 41 Resp: 11676

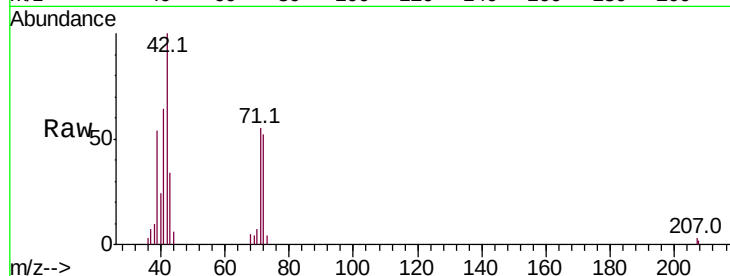
Ion Ratio Lower Upper

41 100

39 66.9 60.0 90.0

67 0.0 88.9 133.3#

52 0.0 36.9 55.3#



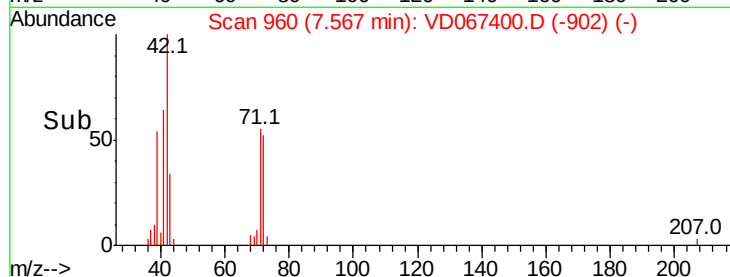
Abundance Ion 41.00 (40.70 to 41.70): VDC

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

Time-->



Abundance

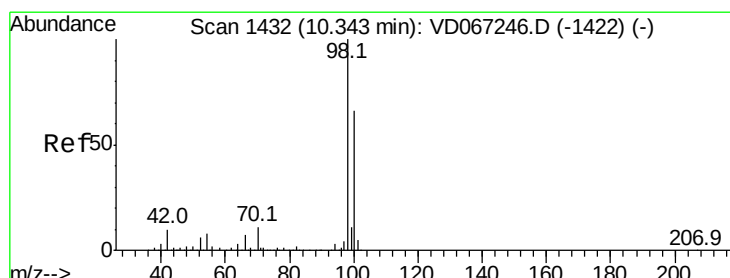
Ion 41.00 (40.70 to 41.70): VDC

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

Time-->



#50

Toluene-d8

Concen: 49.108 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067400.D

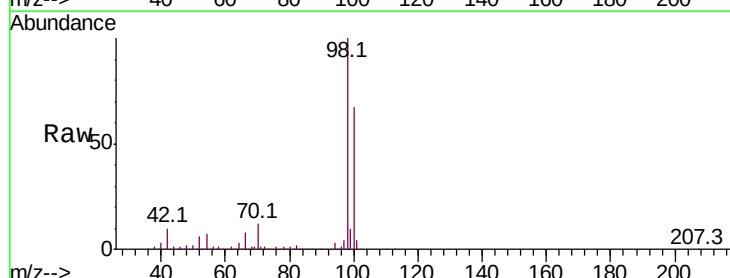
Acq: 26 Oct 2020 18:48

Tgt Ion: 98 Resp: 572649

Ion Ratio Lower Upper

98 100

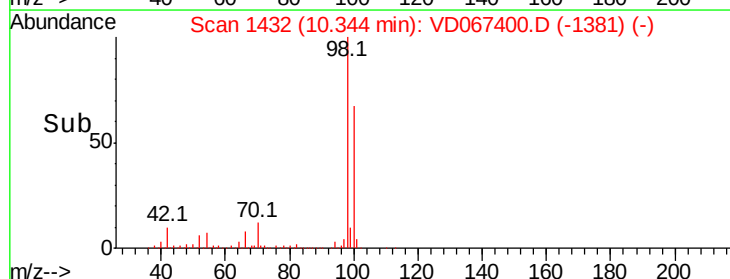
100 66.1 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

Time-->

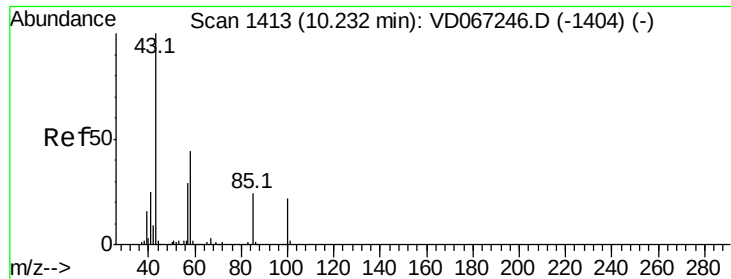


Abundance

Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

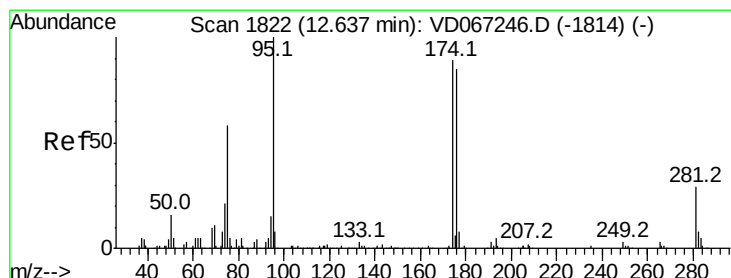
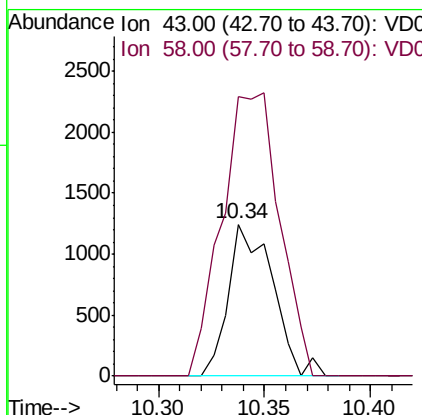
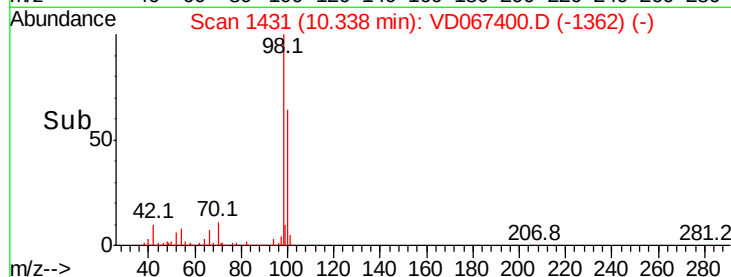
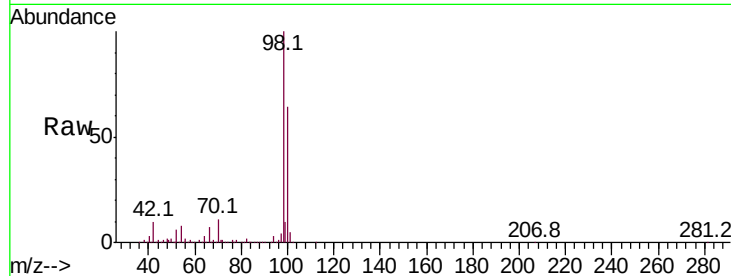
Time-->



#51
 4-Methyl-2-Pentanone
 Concen: 1.516 ug/l
 RT: 10.34 min Scan# 1431
 Delta R.T. 0.11 min
 Lab File: VD067400.D
 Acq: 26 Oct 2020 18:48

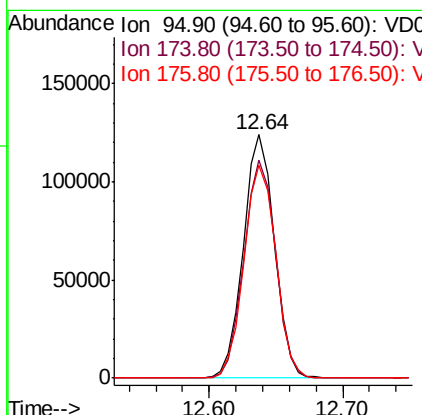
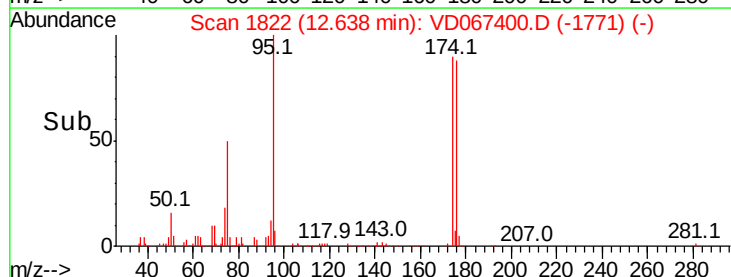
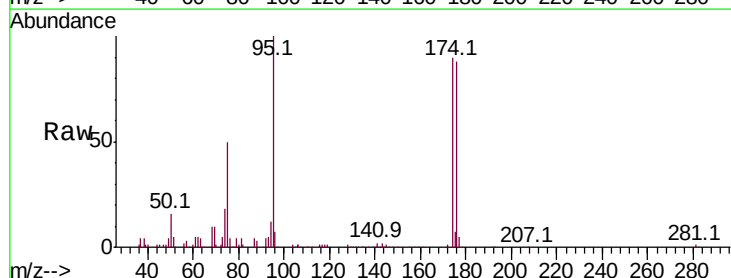
Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-14

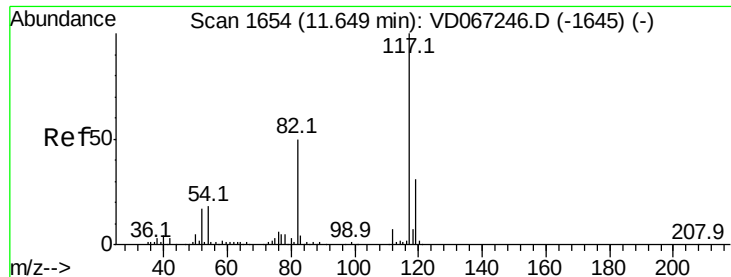
Tot Ion: 43 Resp: 1811
 Ion Ratio Lower Upper
 43 100
 58 242.8 35.7 53.5#



#62
 4-Bromofluorobenzene
 Concen: 49.100 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD067400.D
 Acq: 26 Oct 2020 18:48

Tgt Ion: 95 Resp: 199086
 Ion Ratio Lower Upper
 95 100
 174 91.4 0.0 175.2
 176 89.7 0.0 168.6

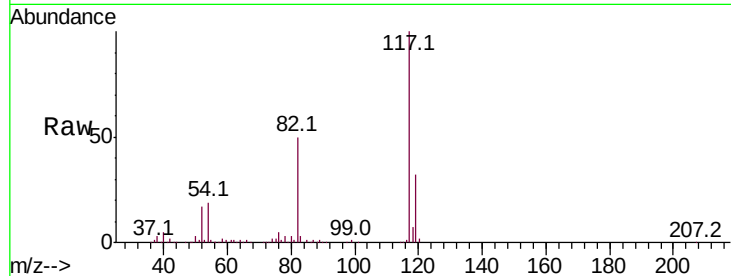




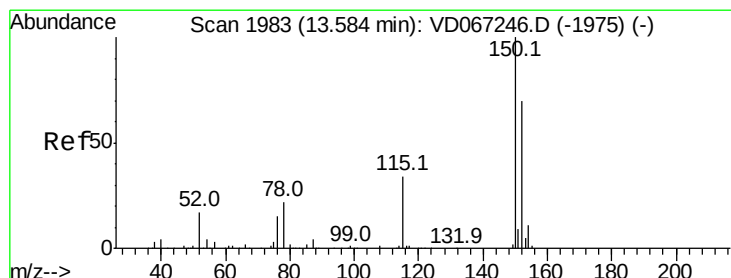
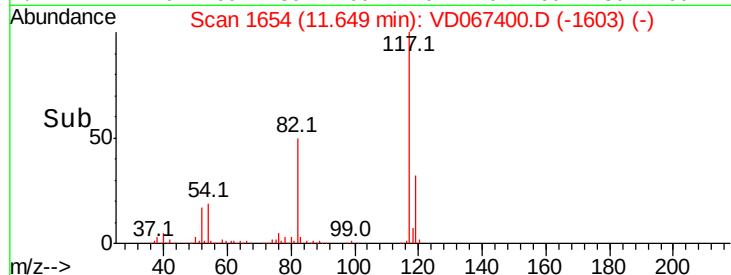
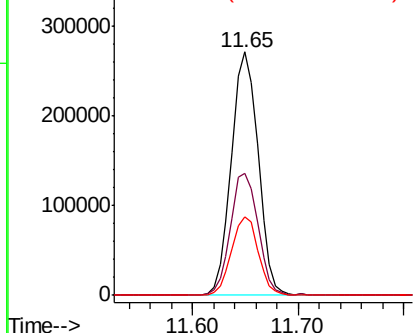
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067400.D
Acq: 26 Oct 2020 18:48

Instrument :
MSVOA_D
ClientSampleId :
VOC-14

Tot Ion:117 Resp: 474960
Ion Ratio Lower Upper
117 100
82 50.2 39.9 59.9
119 32.1 24.9 37.3

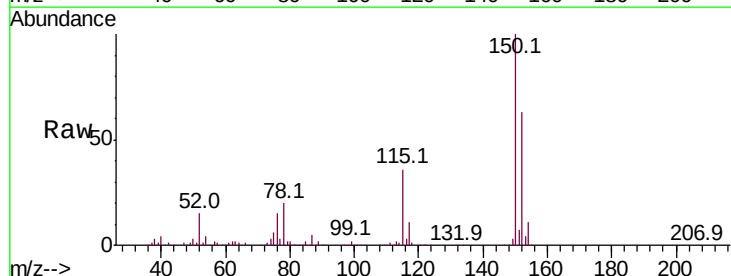


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

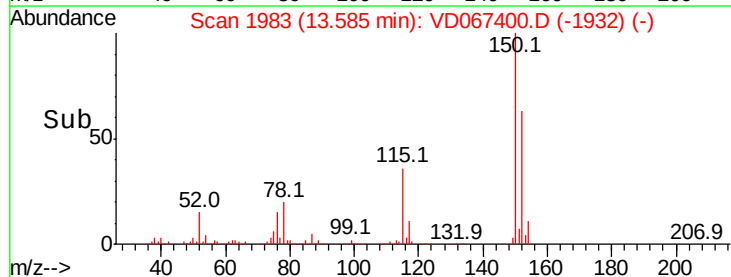
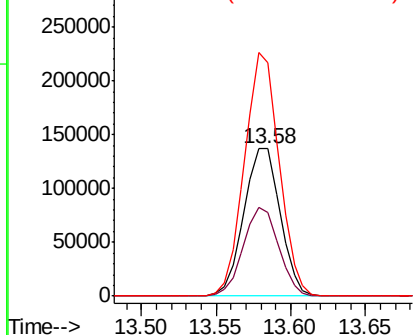


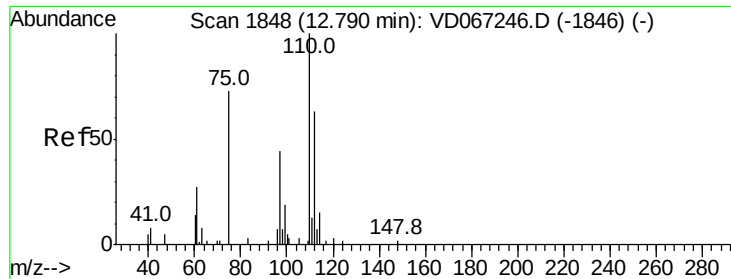
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD067400.D
Acq: 26 Oct 2020 18:48

Tgt Ion:152 Resp: 231317
Ion Ratio Lower Upper
152 100
115 58.8 29.3 87.9
150 157.5 0.0 339.0



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: 65.644 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067400.D

Acq: 26 Oct 2020 18:48

Instrument :

MSVOA_D

ClientSampleId :

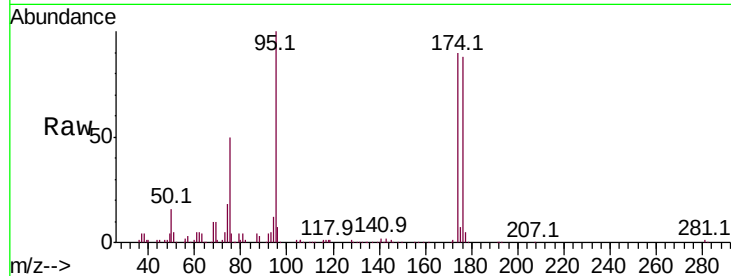
VOC-14

Tot Ion: 75 Resp: 105243

Ion Ratio Lower Upper

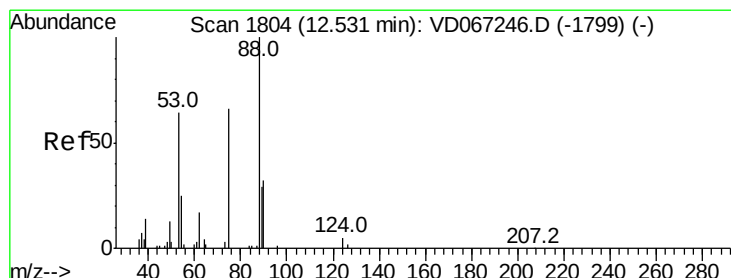
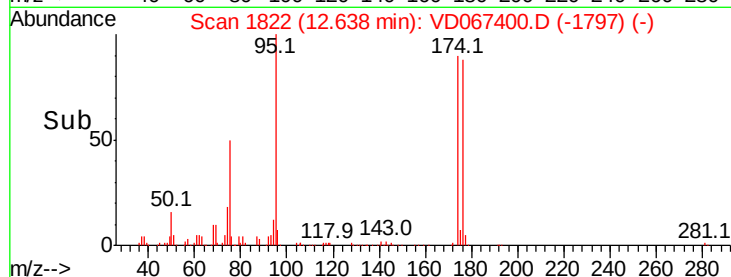
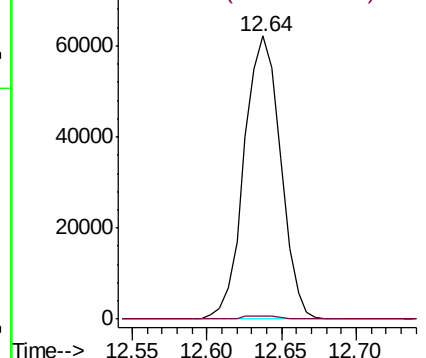
75 100

77 1.1 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: 148.860 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067400.D

Acq: 26 Oct 2020 18:48

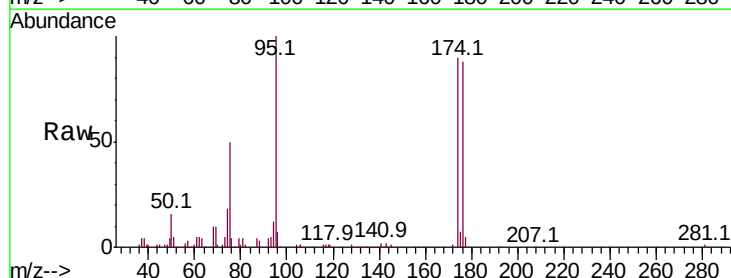
Tgt Ion: 75 Resp: 105243

Ion Ratio Lower Upper

75 100

53 0.0 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

