

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102620\
 Data File : VD067396.D
 Acq On : 26 Oct 2020 16:58
 Operator : VA/SY
 Sample : L4510-08
 Misc : 6.48G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-8

Quant Time: Oct 27 00:53:16 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	135972	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	231531	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	244941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	124821	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	97554	71.61	ug/l	0.00
Spiked Amount			Recovery	=	143.22%	
35) Dibromofluoromethane	7.92	113	86331	56.03	ug/l	0.00
Spiked Amount			Recovery	=	112.06%	
50) Toluene-d8	10.34	98	281989	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	12.64	95	105324	54.32	ug/l	0.00
Spiked Amount			Recovery	=	108.64%	

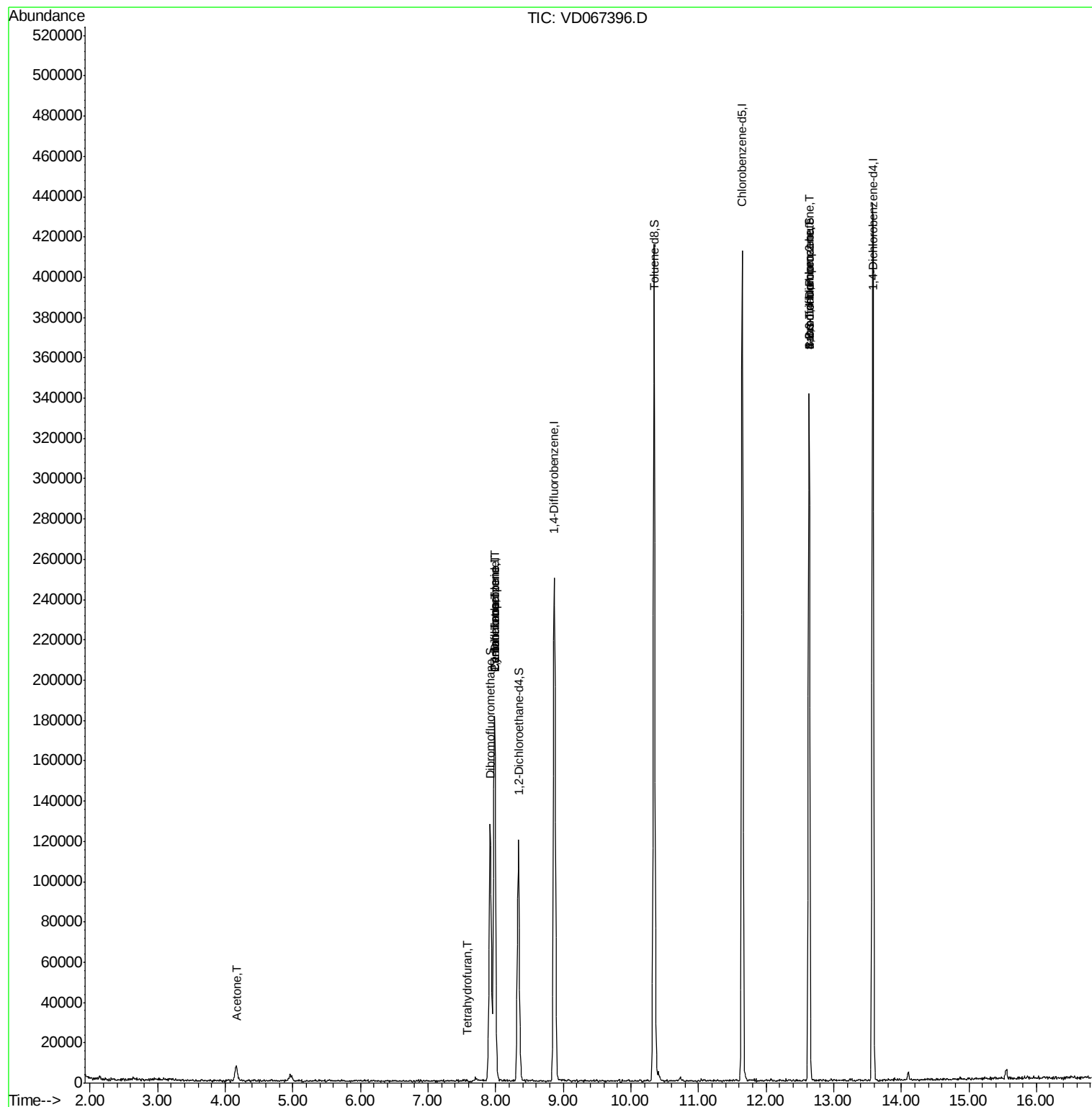
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.77	94	120	Below Cal	#	3
16) Acetone	4.17	43	13130	68.822	ug/l #	85
20) Methylene Chloride	4.97	84	2740	Below Cal	#	69
29) Tetrahydrofuran	7.58	42	208	1.721	ug/l #	51
31) Cyclohexane	7.98	56	2525	1.609	ug/l #	26
36) 1,1-Dichloropropene	7.99	75	10531	5.366	ug/l #	48
38) Carbon Tetrachloride	7.98	117	14390	5.737	ug/l #	18
71) Bromoform	12.64	173	1023	1.020	ug/l #	29
76) 1,2,3-Trichloropropane	12.64	75	52573	60.769	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	52573	137.806	ug/l #	10

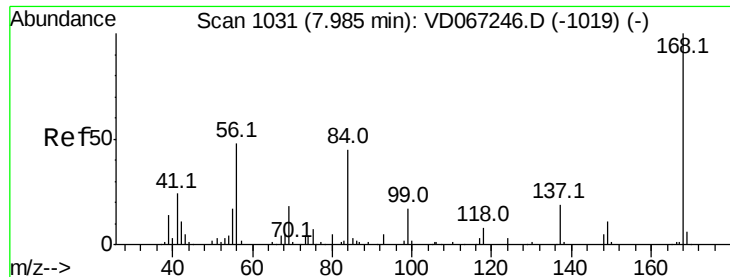
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 19 19:13:29 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Instrument :

MSVOA_D

ClientSampleId :

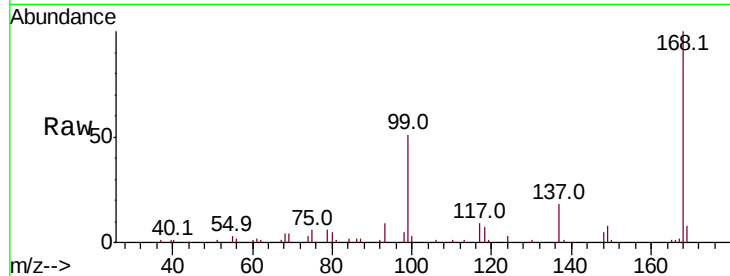
VOC-8

Tot Ion:168 Resp: 135972

Ion Ratio Lower Upper

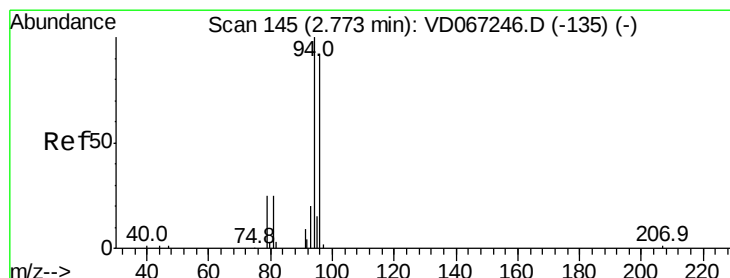
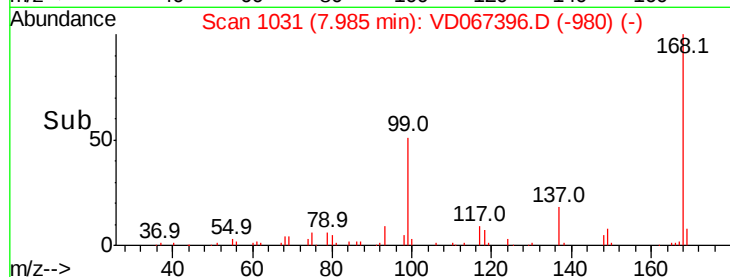
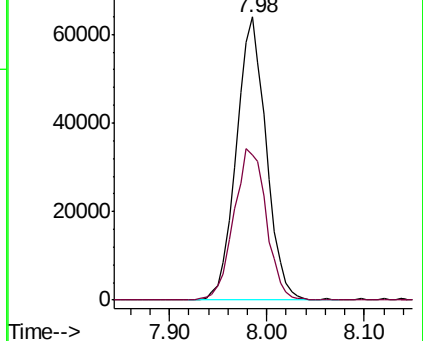
168 100

99 51.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD067396.D

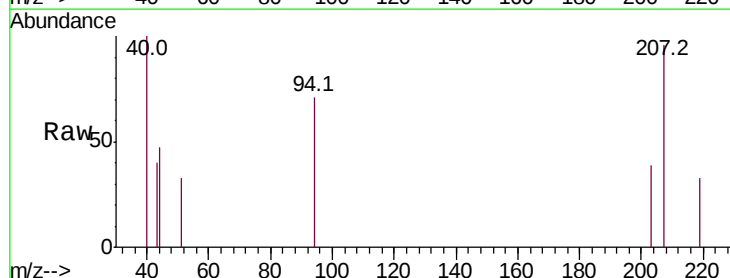
Acq: 26 Oct 2020 16:58

Tgt Ion: 94 Resp: 120

Ion Ratio Lower Upper

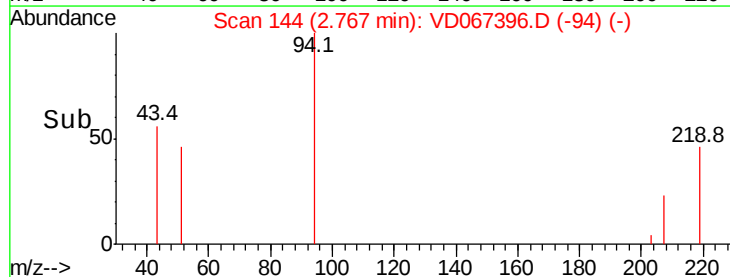
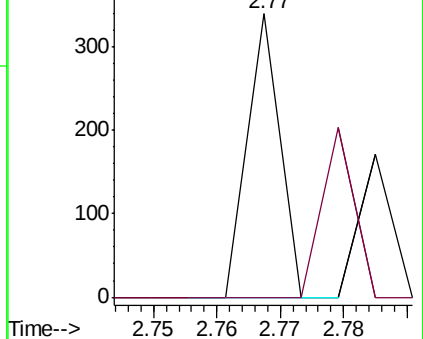
94 100

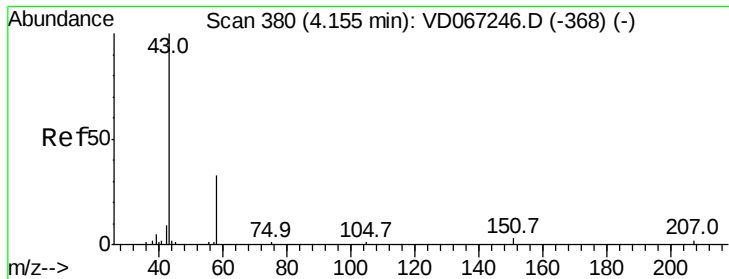
96 0.0 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 68.822 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Instrument :

MSVOA_D

ClientSampleId :

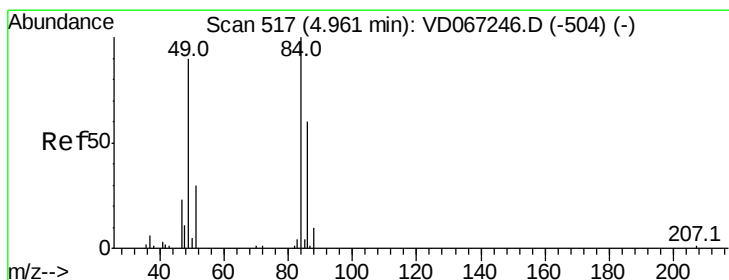
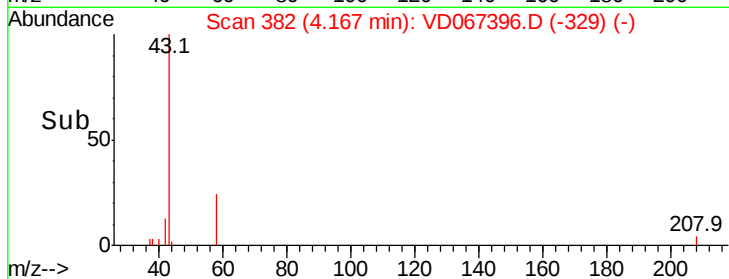
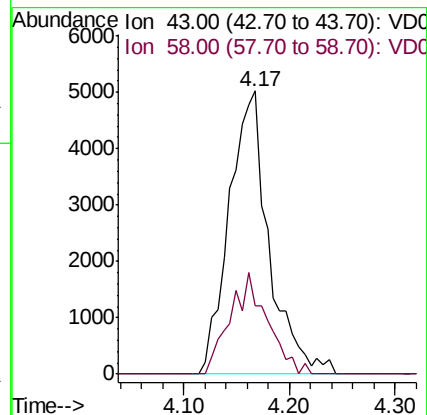
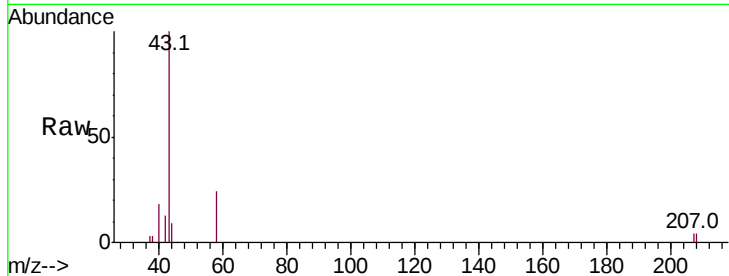
VOC-8

Tot Ion: 43 Resp: 13130

Ion Ratio Lower Upper

43 100

58 24.1 26.1 39.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Tgt Ion: 84 Resp: 2740

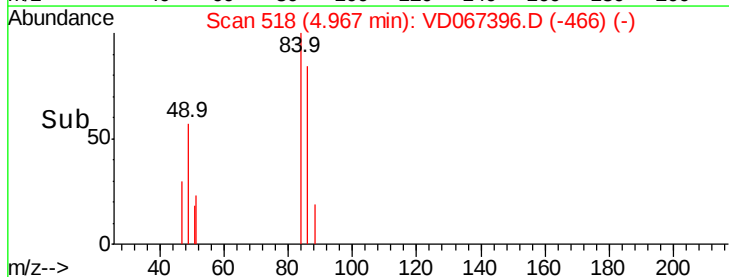
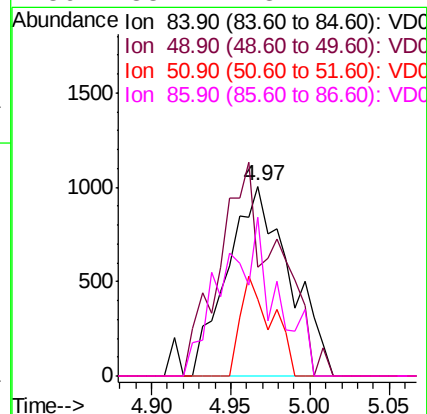
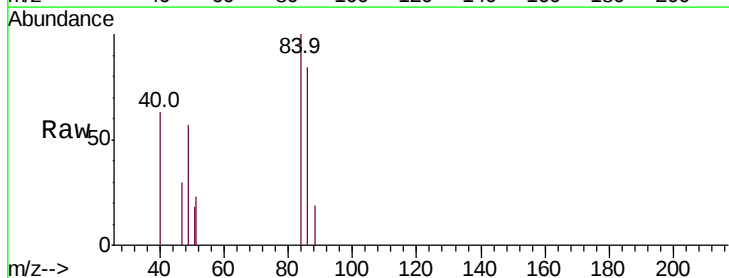
Ion Ratio Lower Upper

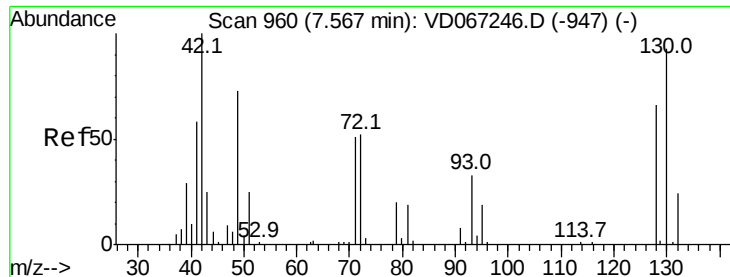
84 100

49 57.4 72.2 108.2#

51 40.8 23.8 35.8#

86 83.7 48.2 72.4#





#29

Tetrahydrofuran

Concen: 1.721 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Instrument :

MSVOA_D

ClientSampleId :

VOC-8

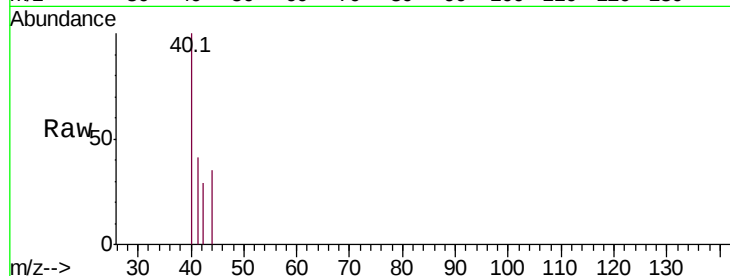
Tot Ion: 42 Resp: 208

Ion Ratio Lower Upper

42 100

72 33.7 43.2 64.8#

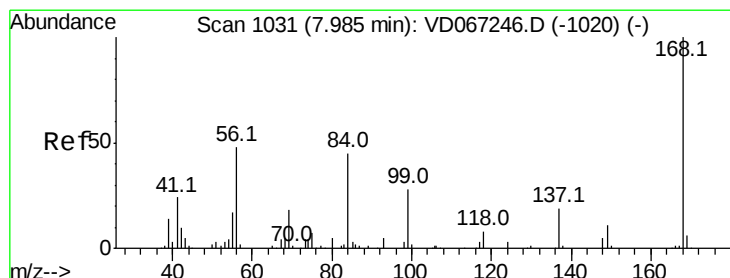
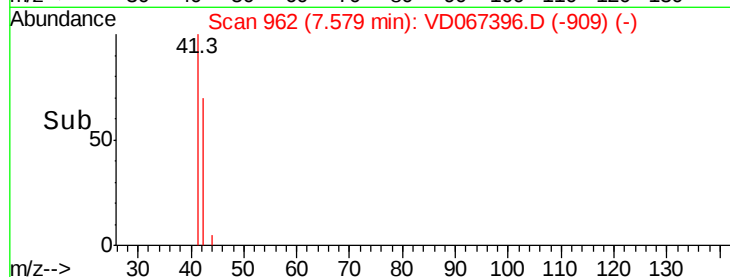
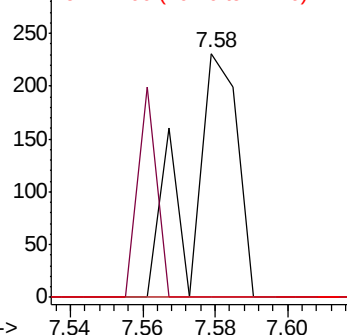
71 0.0 39.4 59.0#



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: 1.609 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

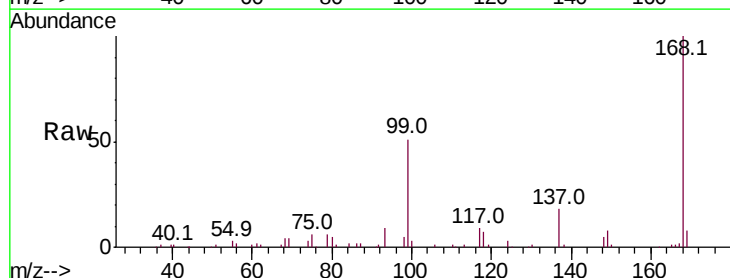
Tgt Ion: 56 Resp: 2525

Ion Ratio Lower Upper

56 100

69 180.9 29.8 44.6#

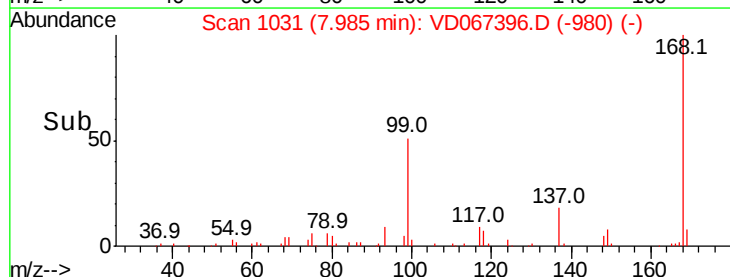
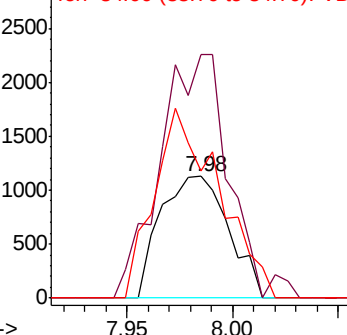
84 104.9 76.6 114.8

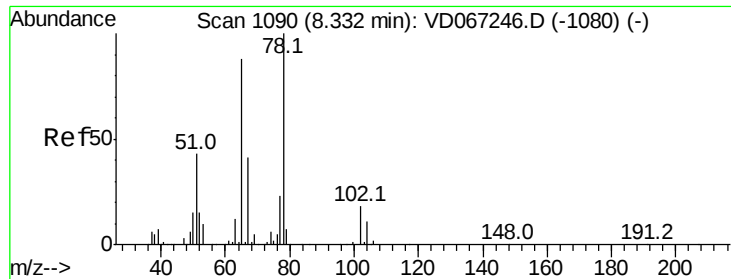


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 71.613 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

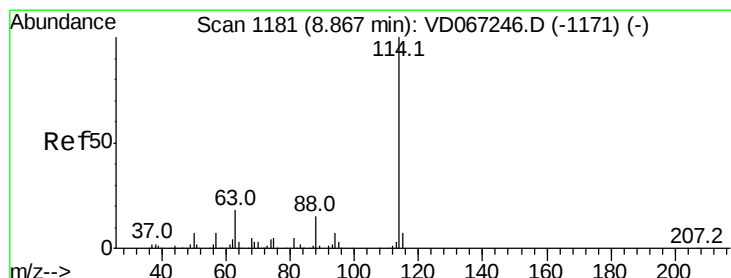
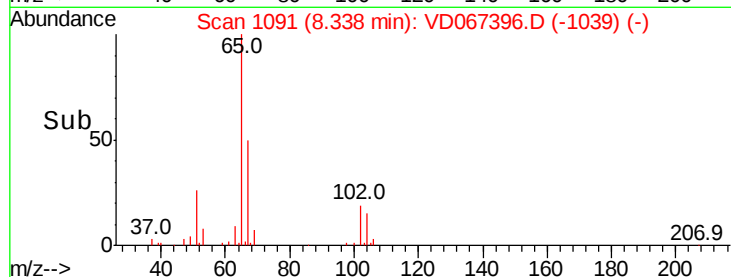
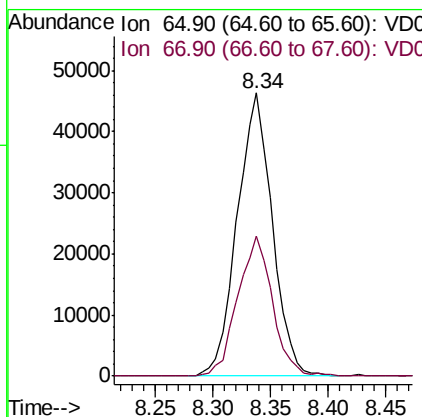
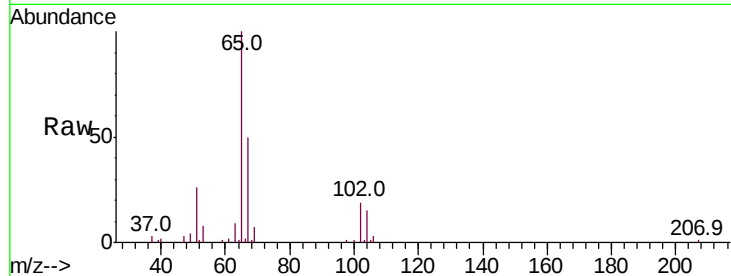
Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Instrument :
MSVOA_D
ClientSampled :
VOC-8

Tot Ion: 65 Resp: 97554

Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

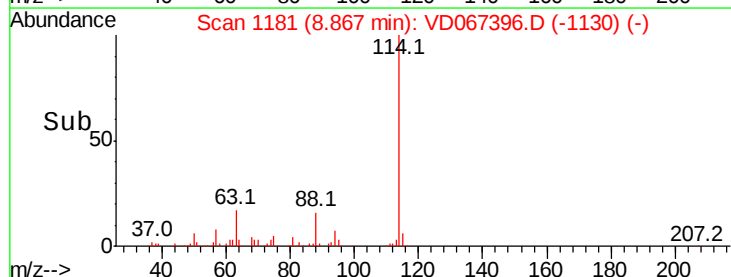
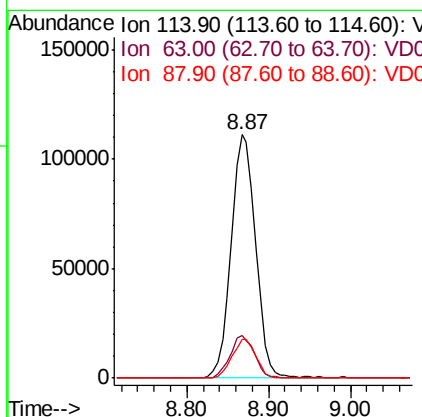
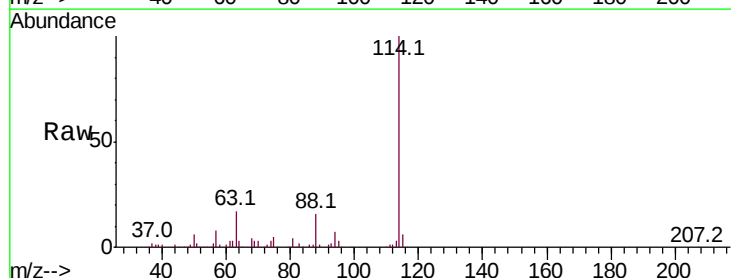
Delta R.T. 0.00 min

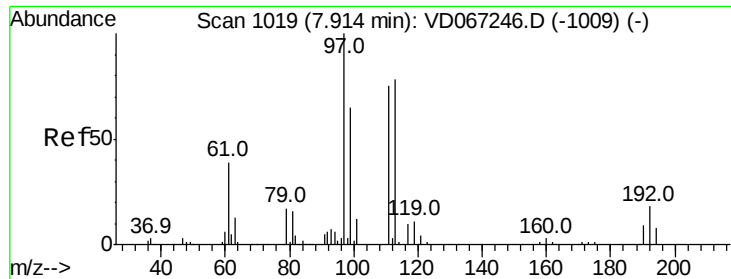
Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Tgt Ion: 114 Resp: 231531

Ion	Ratio	Lower	Upper
114	100		
63	17.4	0.0	35.0
88	16.0	0.0	30.6

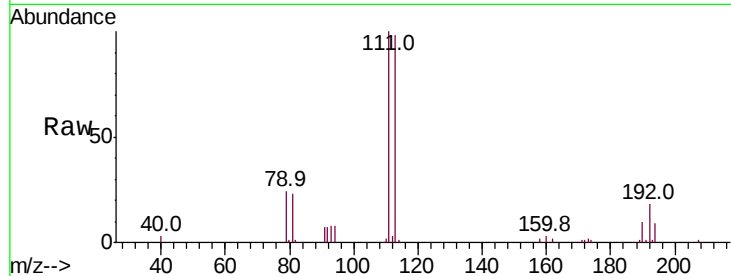




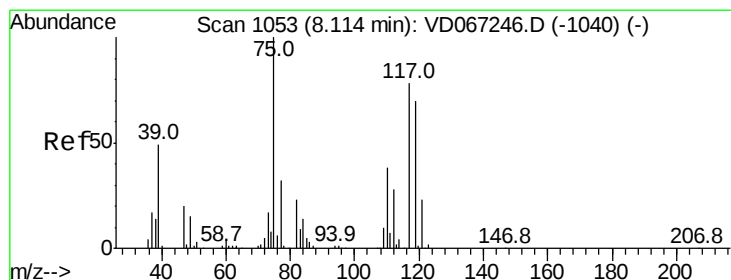
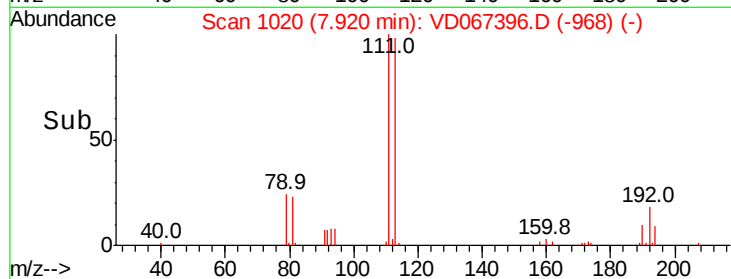
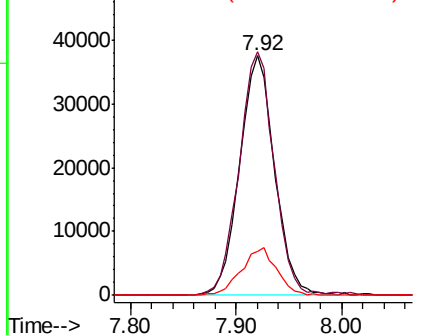
#35
 Dibromofluoromethane
 Concen: 56.028 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067396.D
 Acq: 26 Oct 2020 16:58

Instrument :
 MSVOA_D
 ClientSampleID :
 VOC-8

Tot Ion:113 Resp: 86331
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.6 122.4
 192 20.1 17.0 25.4

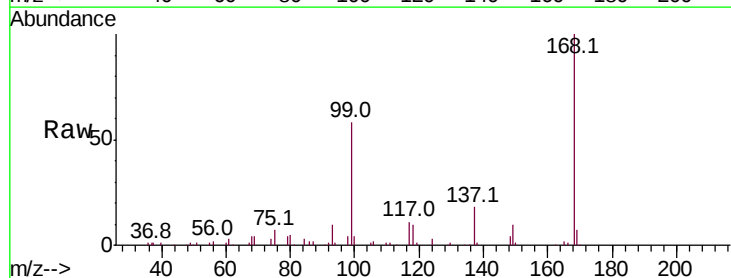


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

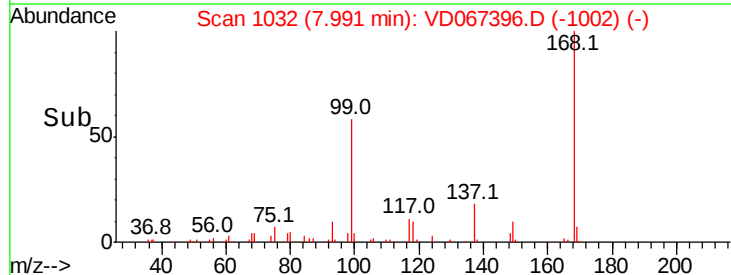
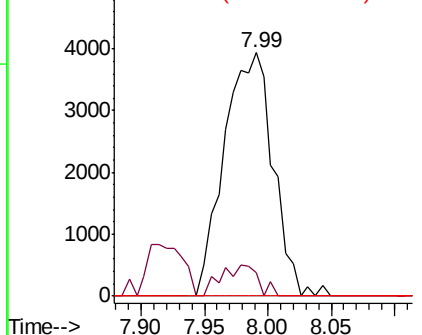


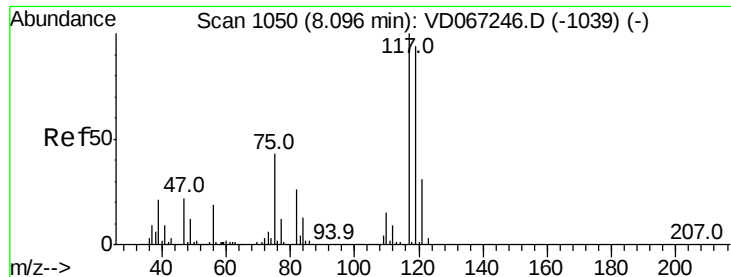
#36
 1,1-Dichloropropene
 Concen: 5.366 ug/l
 RT: 7.99 min Scan# 1032
 Delta R.T. -0.12 min
 Lab File: VD067396.D
 Acq: 26 Oct 2020 16:58

Tgt Ion: 75 Resp: 10531
 Ion Ratio Lower Upper
 75 100
 110 9.7 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

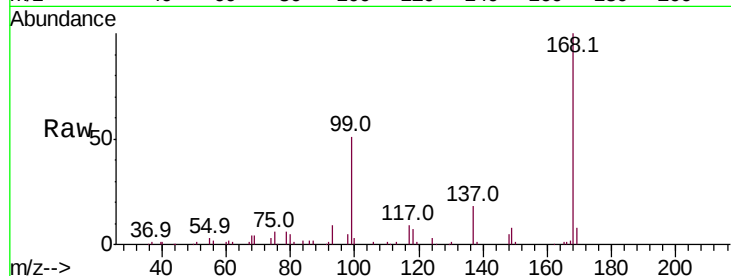




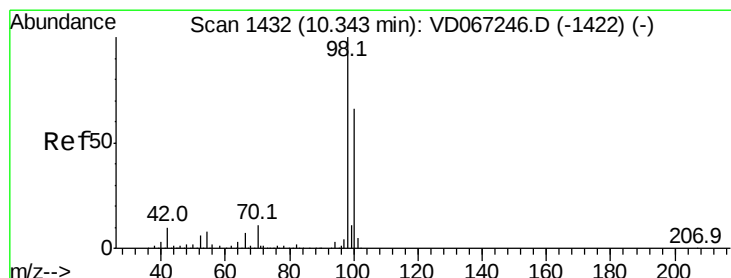
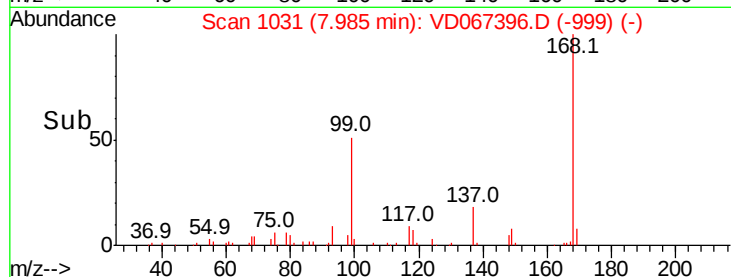
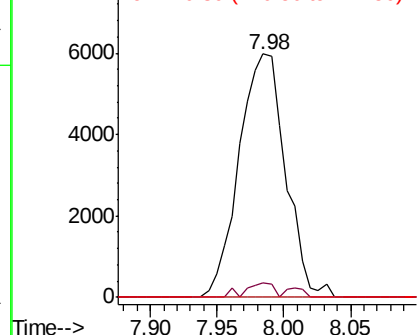
#38
Carbon Tetrachloride
Concen: 5.737 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD067396.D
Acq: 26 Oct 2020 16:58

Instrument :
MSVOA_D
ClientSampled :
VOC-8

Tot Ion:117 Resp: 14390
Ion Ratio Lower Upper
117 100
119 6.1 75.0 112.4#
121 0.0 24.9 37.3#

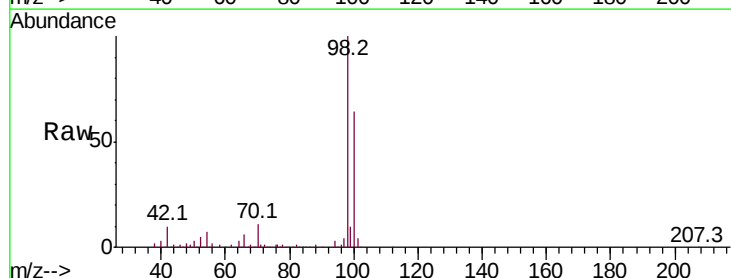


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

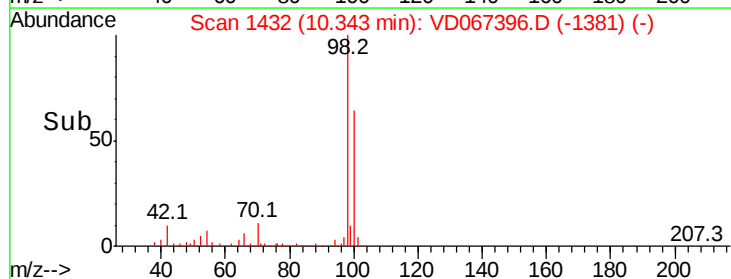
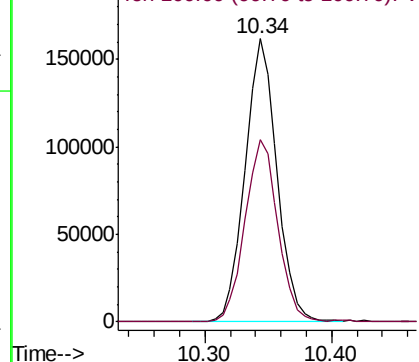


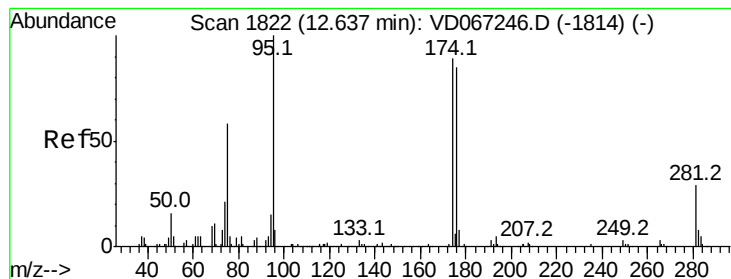
#50
Toluene-d8
Concen: 50.570 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067396.D
Acq: 26 Oct 2020 16:58

Tgt Ion: 98 Resp: 281989
Ion Ratio Lower Upper
98 100
100 66.2 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VD





#62

4-Bromofluorobenzene

Concen: 54.320 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Instrument :

MSVOA_D

ClientSampleId :

VOC-8

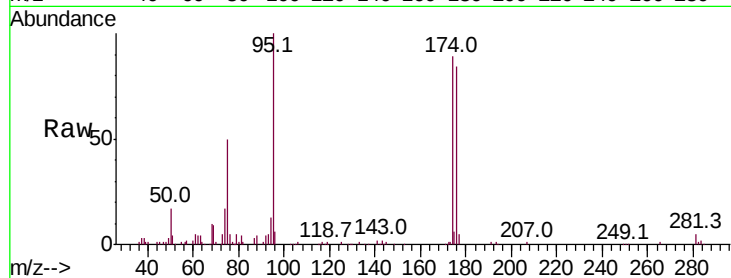
Tot Ion: 95 Resp: 105324

Ion Ratio Lower Upper

95 100

174 89.5 0.0 175.2

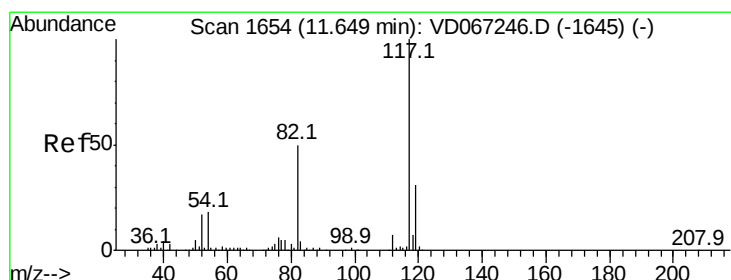
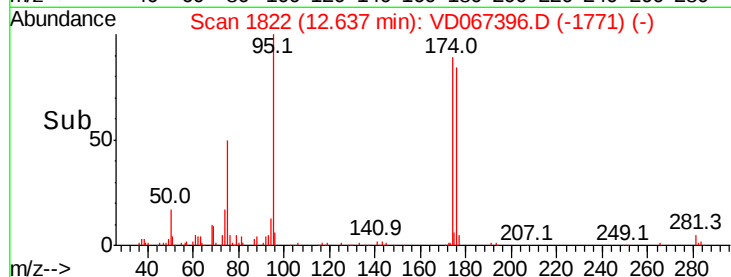
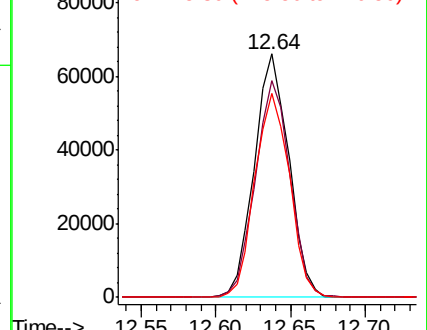
176 84.2 0.0 168.6



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: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

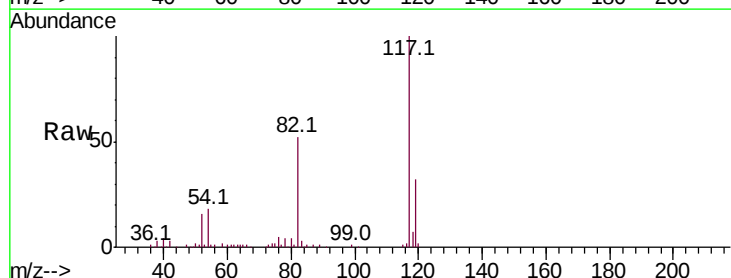
Tgt Ion: 117 Resp: 244941

Ion Ratio Lower Upper

117 100

82 51.9 39.9 59.9

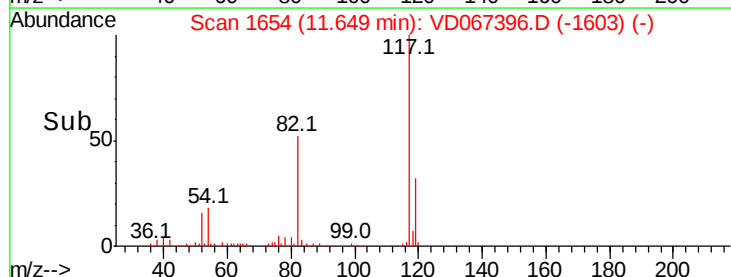
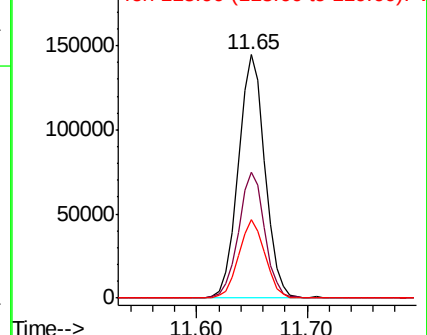
119 32.4 24.9 37.3

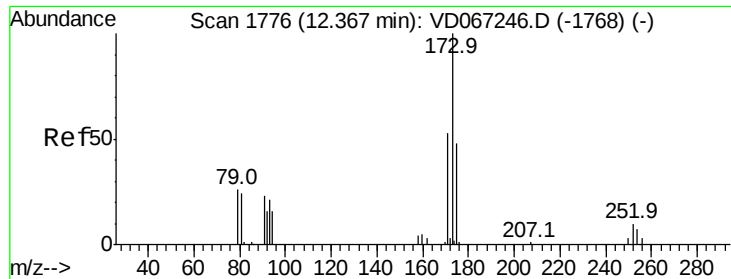


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.020 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Instrument :

MSVOA_D

ClientSampleId :

VOC-8

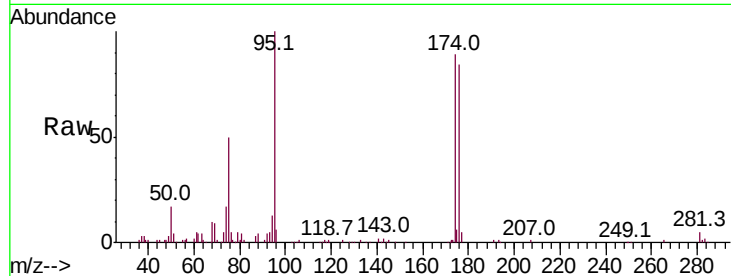
Tot Ion:173 Resp: 1023

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

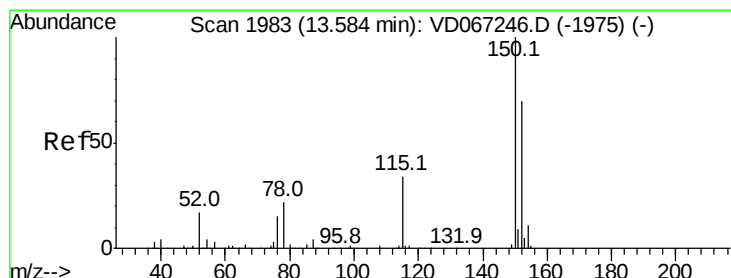
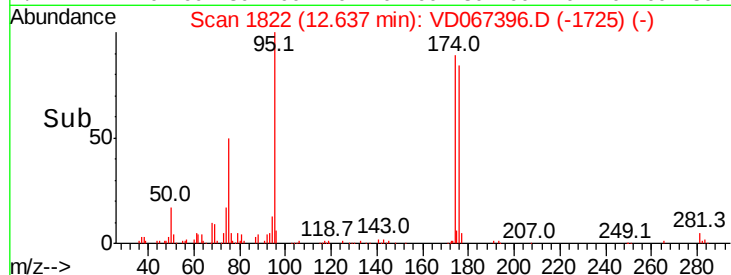
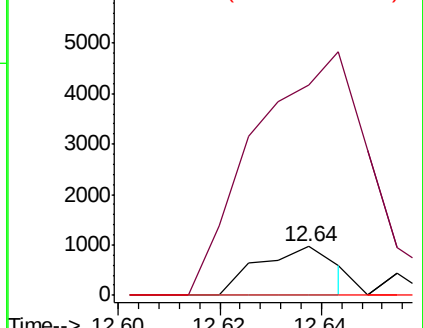
254 0.0 0.1 0.1#



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# 1983

Delta R.T. 0.00 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

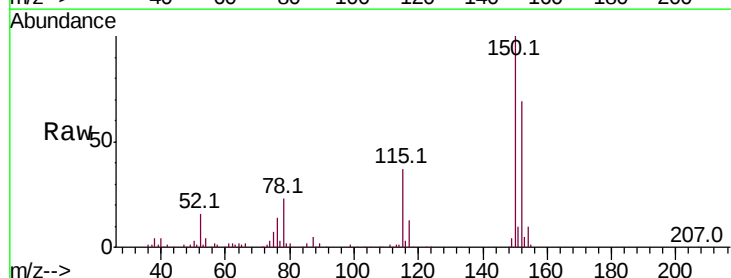
Tgt Ion:152 Resp: 124821

Ion Ratio Lower Upper

152 100

115 57.5 29.3 87.9

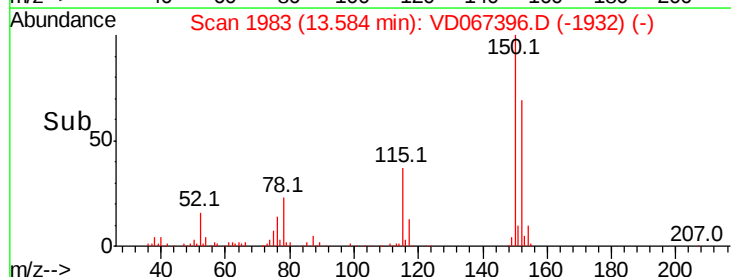
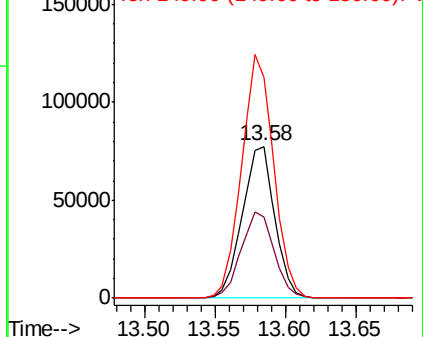
150 158.2 0.0 339.0

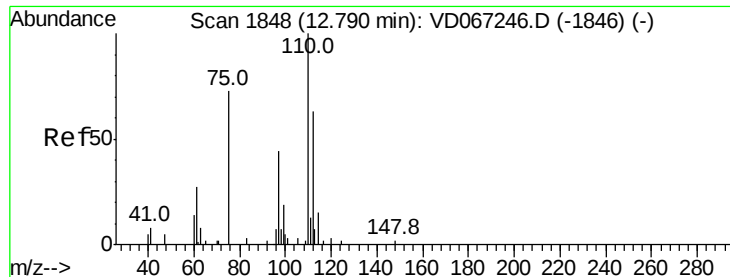


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 60.769 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

Instrument :

MSVOA_D

ClientSampleId :

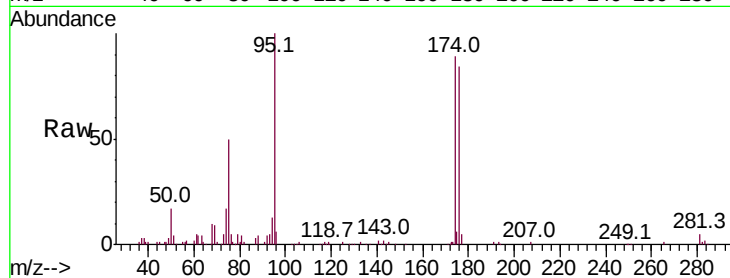
VOC-8

Tot Ion: 75 Resp: 52573

Ion Ratio Lower Upper

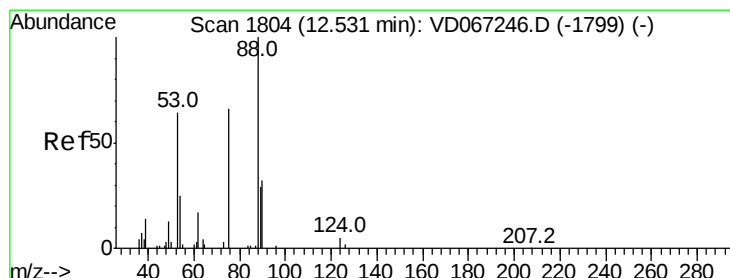
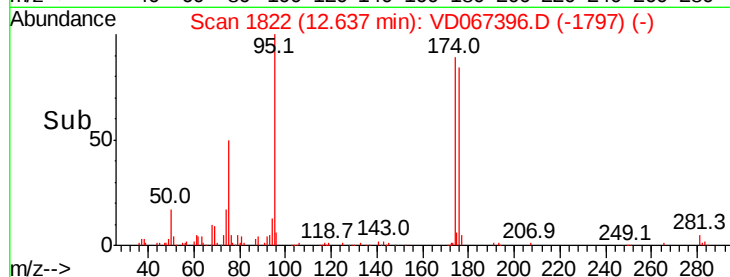
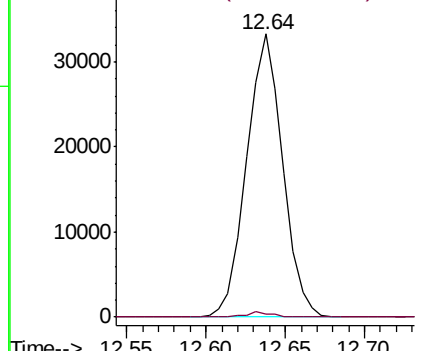
75 100

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: 137.806 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067396.D

Acq: 26 Oct 2020 16:58

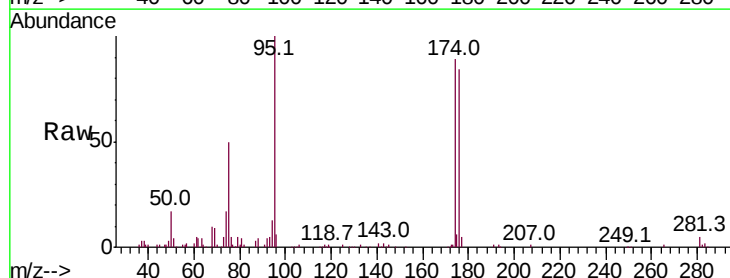
Tgt Ion: 75 Resp: 52573

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 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

