

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\
 Data File : VD067002.D
 Acq On : 01 Oct 2020 19:37
 Operator : VA/SY
 Sample : L4198-04
 Misc : 6.51G/5.00ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-21

Quant Time: Oct 02 00:41:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	272911	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	465889	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	454285	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	212027	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	177363	67.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	134.94%	
35) Dibromofluoromethane	7.91	113	163312	53.54	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.08%	
50) Toluene-d8	10.34	98	552632	49.72	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.44%	
62) 4-Bromofluorobenzene	12.63	95	188902	50.07	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.14%	

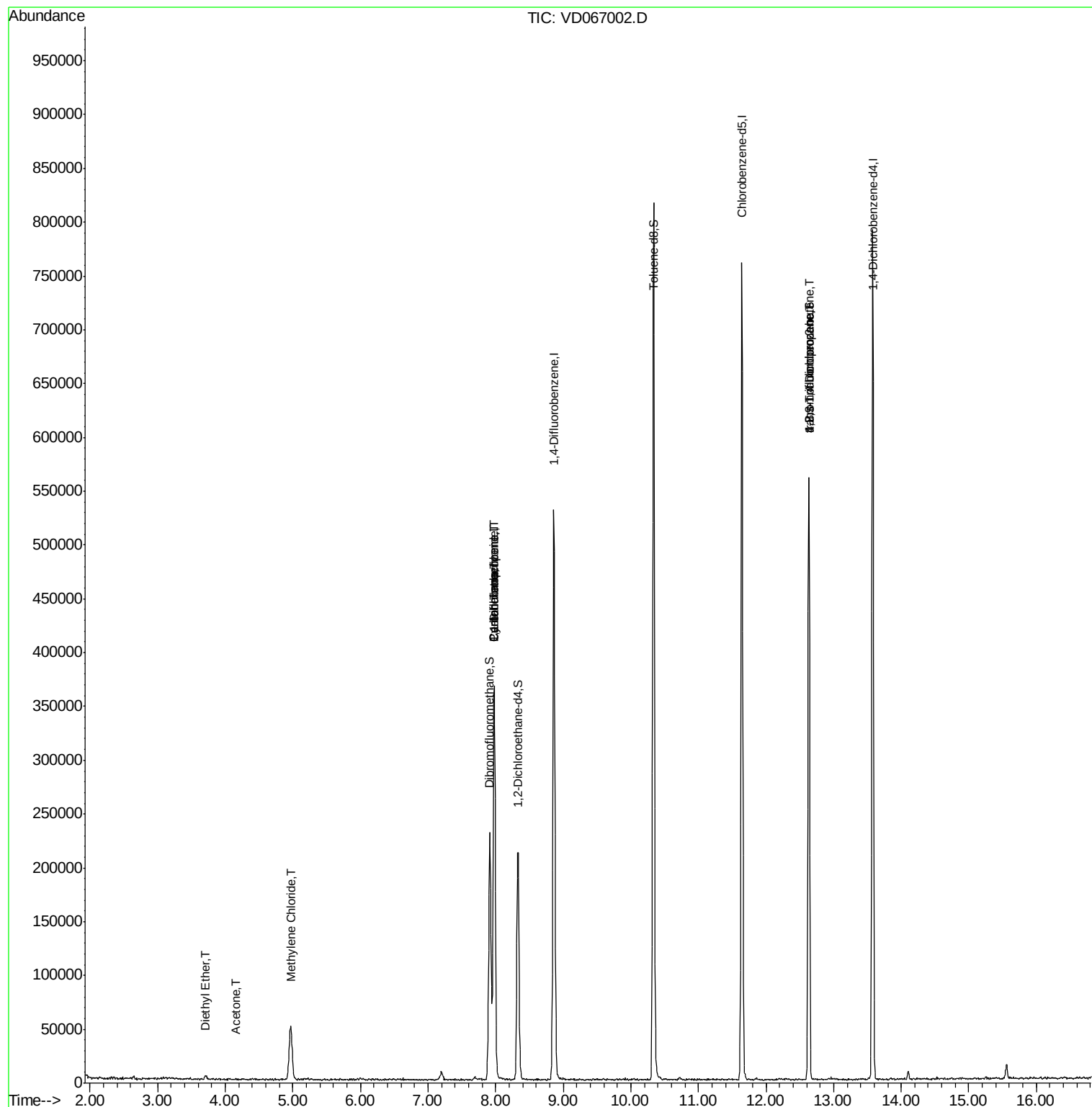
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.78	94	435	Below Cal		81
8) Diethyl Ether	3.70	74	2012	1.676 ug/l		100
11) Tert butyl alcohol	5.23	59	707	Below Cal	#	72
16) Acetone	4.16	43	583	1.453 ug/l	#	42
20) Methylene Chloride	4.97	84	40525	8.142 ug/l		95
26) 2,2-Dichloropropane	7.20	77	422	Below Cal	#	53
31) Cyclohexane	7.97	56	5427	1.375 ug/l	#	6
36) 1,1-Dichloropropene	7.98	75	20399	4.697 ug/l	#	52
38) Carbon Tetrachloride	7.98	117	26139	5.563 ug/l	#	14
76) 1,2,3-Trichloropropane	12.63	75	97520	52.804 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.63	75	97520	131.647 ug/l	#	12

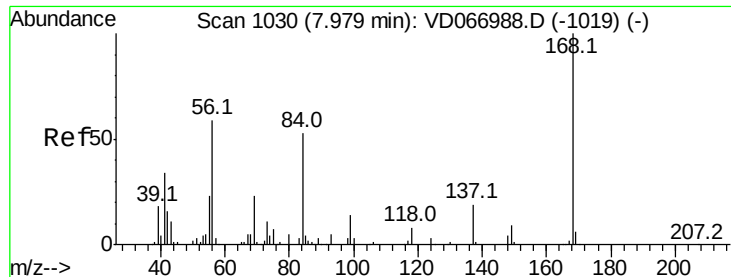
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067002.D

Acq: 01 Oct 2020 19:37

Instrument :

MSVOA_D

ClientSampleId :

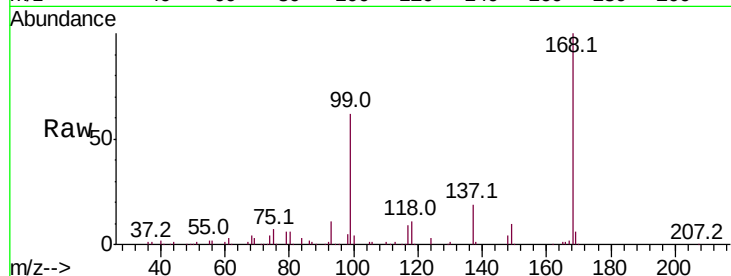
RO-21

Tot Ion:168 Resp: 272911

Ion Ratio Lower Upper

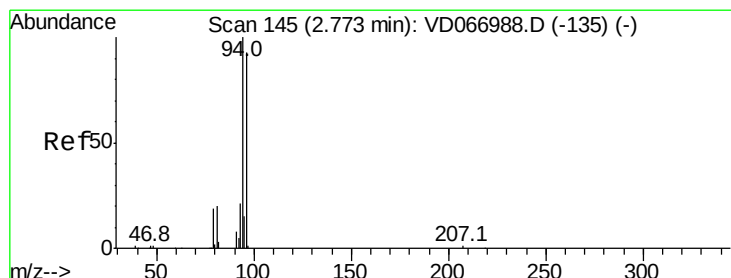
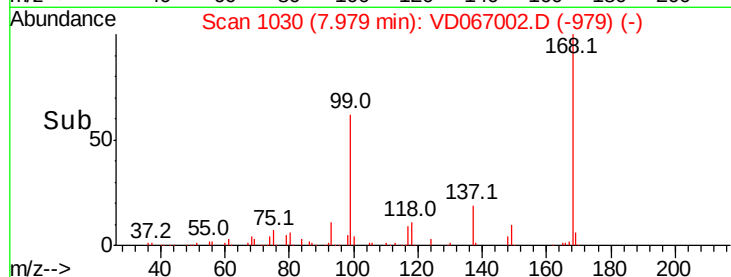
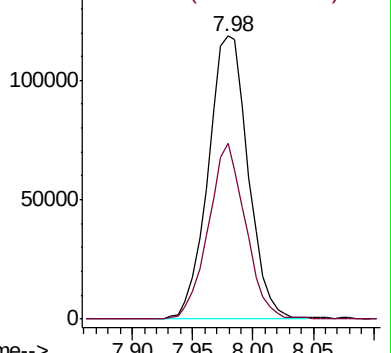
168 100

99 62.1 44.1 66.1



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: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067002.D

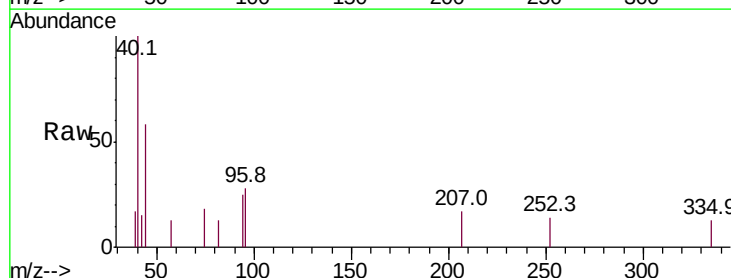
Acq: 01 Oct 2020 19:37

Tgt Ion: 94 Resp: 435

Ion Ratio Lower Upper

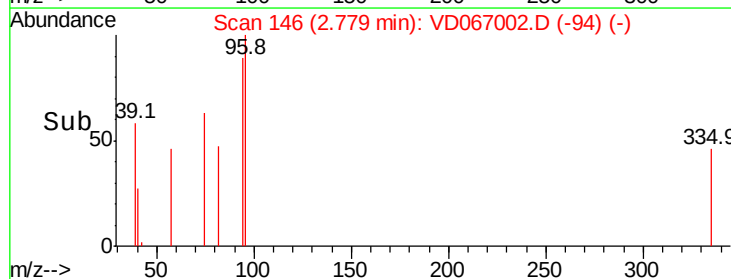
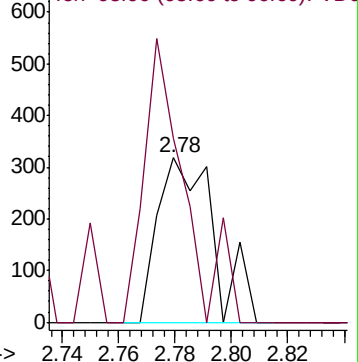
94 100

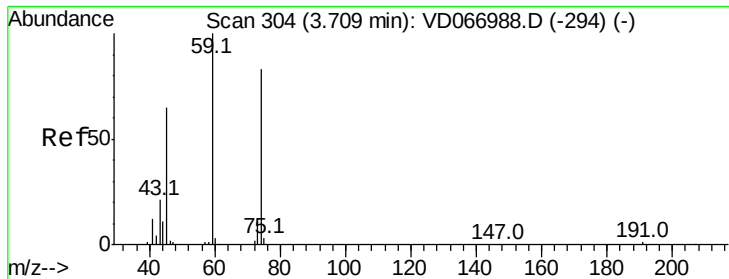
96 111.9 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#8

Diethyl Ether

Concen: 1.676 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

Instrument :

MSVOA_D

ClientSampled :

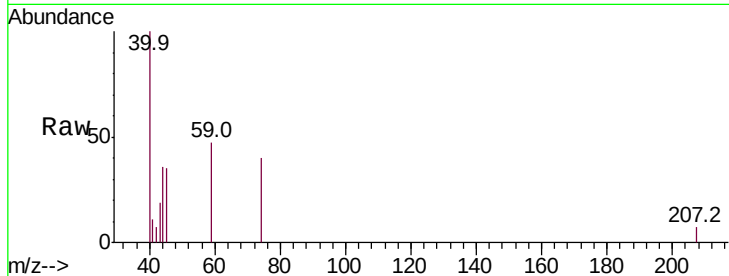
RO-21

Tot Ion: 74 Resp: 2012

Ion Ratio Lower Upper

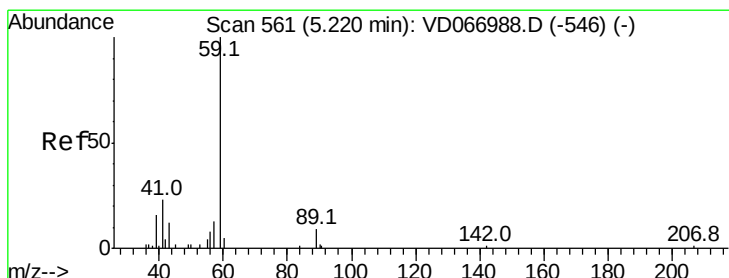
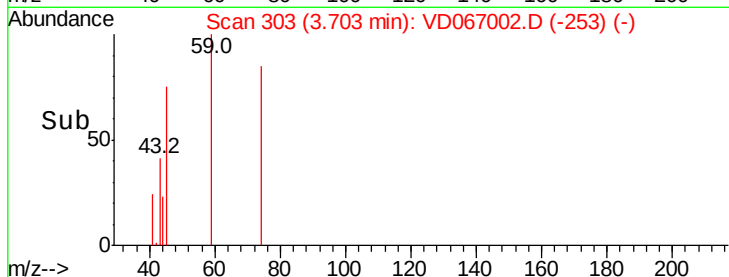
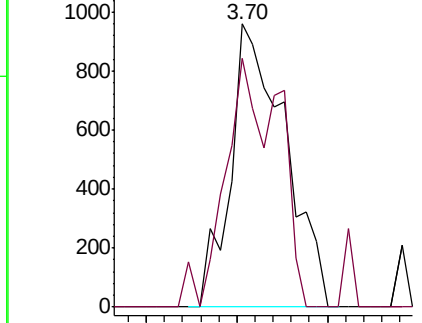
74 100

45 86.3 43.1 129.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 562

Delta R.T. 0.01 min

Lab File: VD067002.D

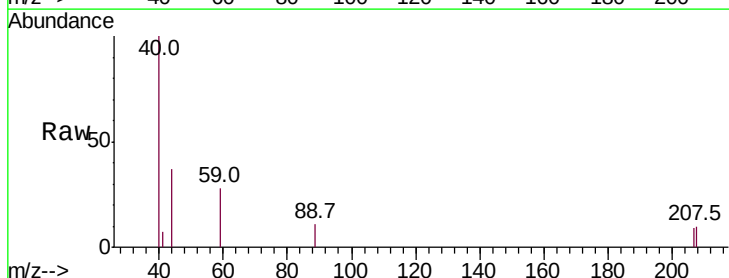
Acq: 01 Oct 2020 19:37

Tgt Ion: 59 Resp: 707

Ion Ratio Lower Upper

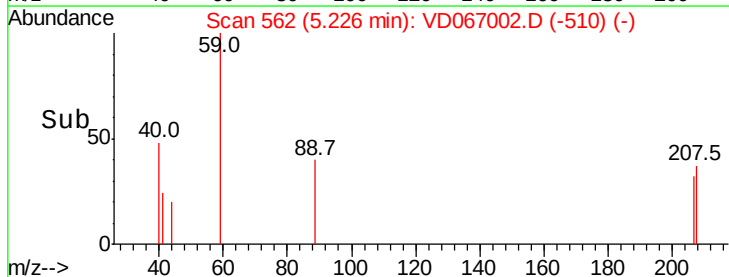
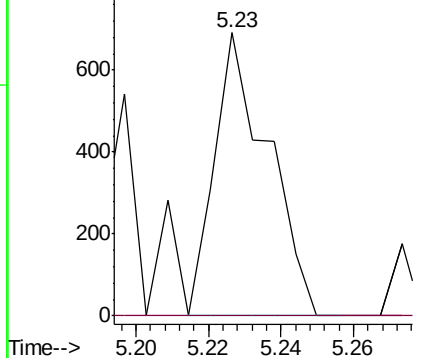
59 100

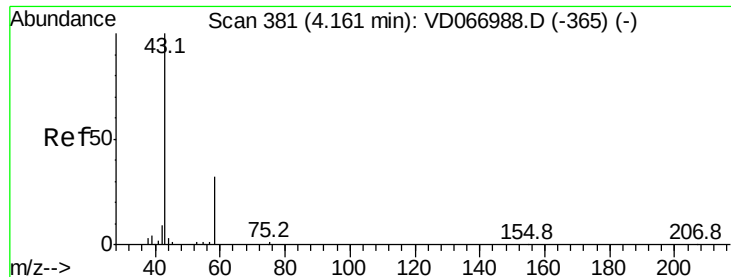
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 1.453 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

Instrument :

MSVOA_D

ClientSampleId :

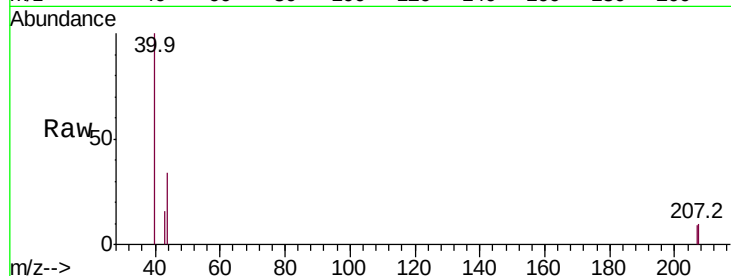
RO-21

Tot Ion: 43 Resp: 583

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

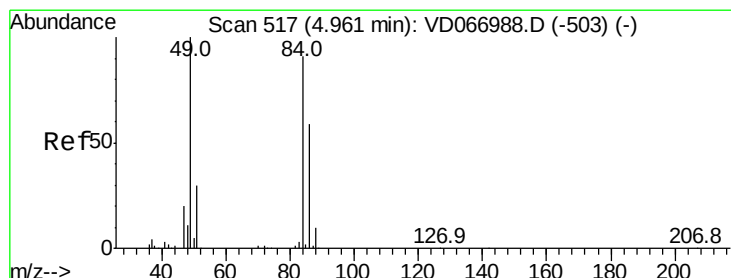
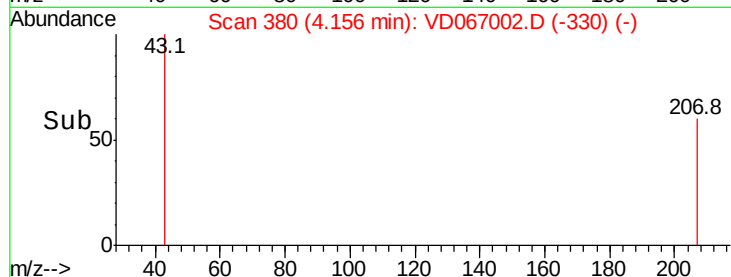
Ion 58.00 (57.70 to 58.70): VDC

4.16

4.15

4.20

Time-->



#20

Methylene Chloride

Concen: 8.142 ug/l

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

Tgt Ion: 84 Resp: 40525

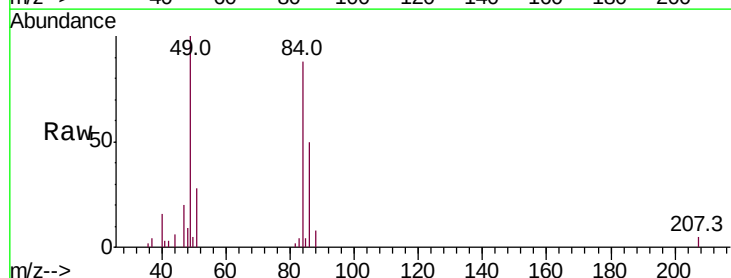
Ion Ratio Lower Upper

84 100

49 113.7 88.2 132.2

51 31.7 26.6 39.8

86 57.0 52.1 78.1



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

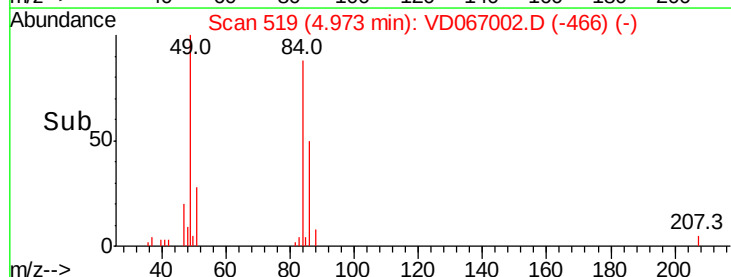
Ion 85.90 (85.60 to 86.60): VDC

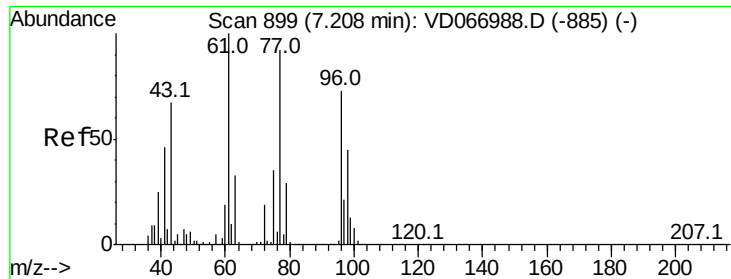
4.97

4.90

5.10

Time-->





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.20 min Scan# 897

Delta R.T. -0.01 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

Instrument :

MSVOA_D

ClientSampleId :

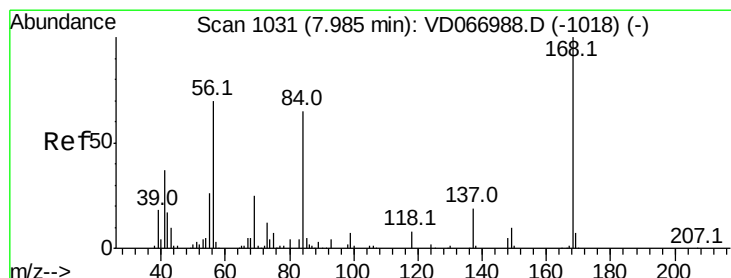
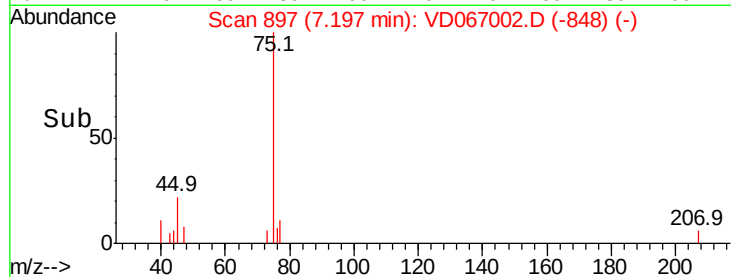
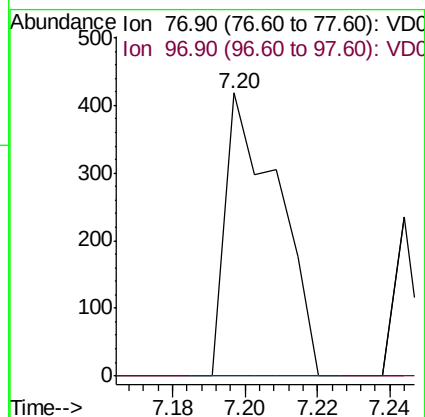
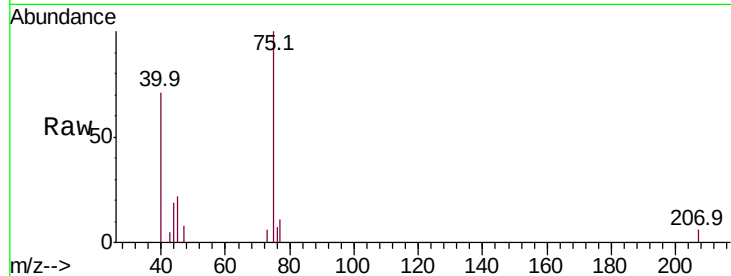
RO-21

Tot Ion: 77 Resp: 422

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



#31

Cyclohexane

Concen: 1.375 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

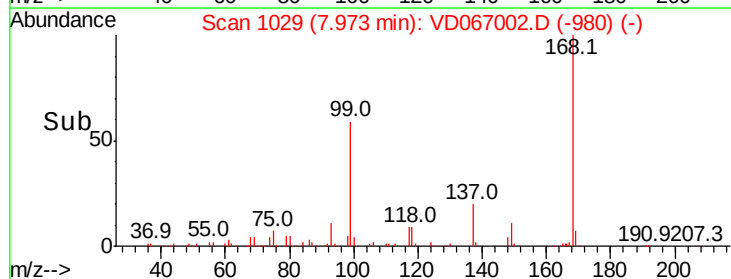
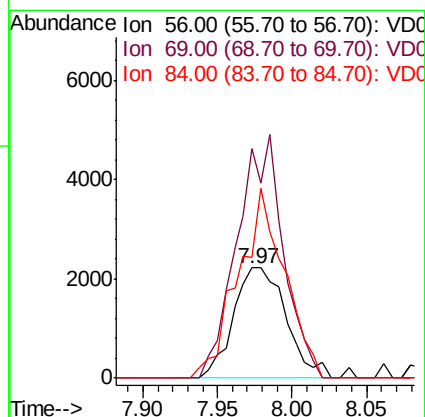
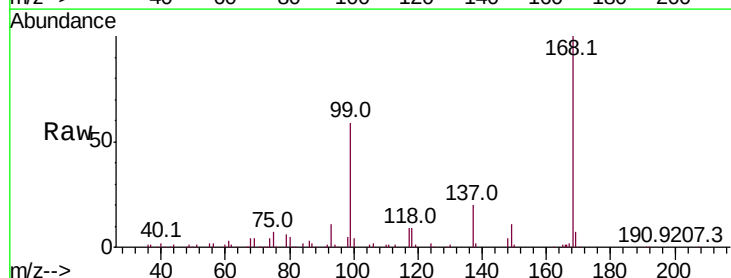
Tgt Ion: 56 Resp: 5427

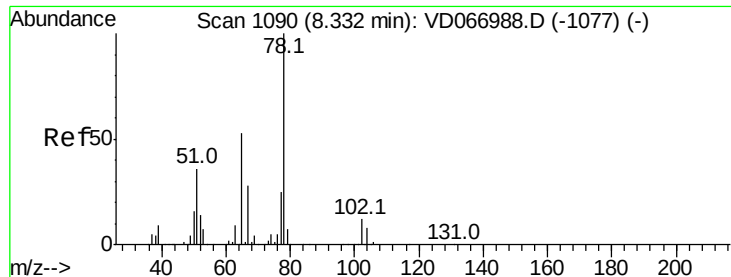
Ion Ratio Lower Upper

56 100

69 207.8 29.0 43.6#

84 109.7 74.2 111.2

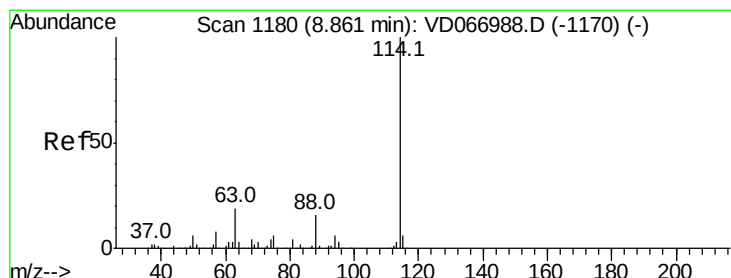
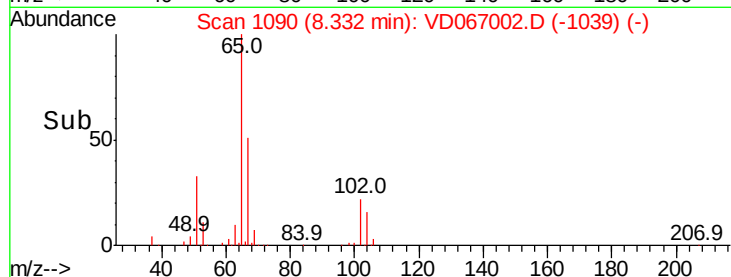
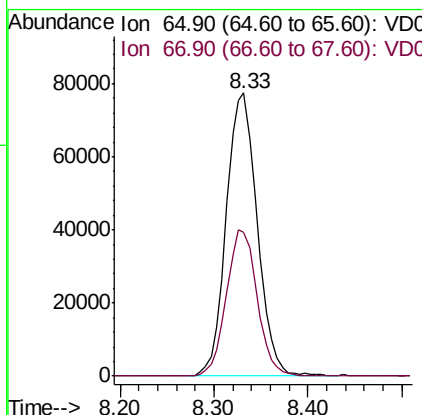
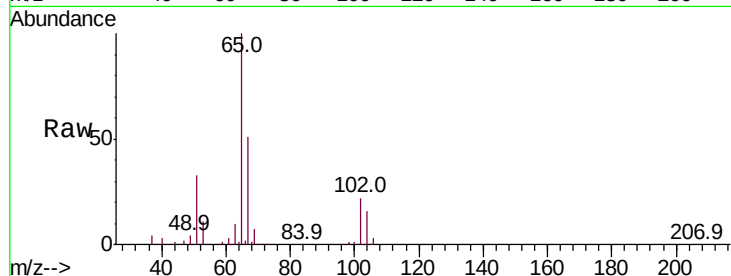




#33
 1,2-Dichloroethane-d4
 Concen: 67.473 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067002.D
 Acq: 01 Oct 2020 19:37

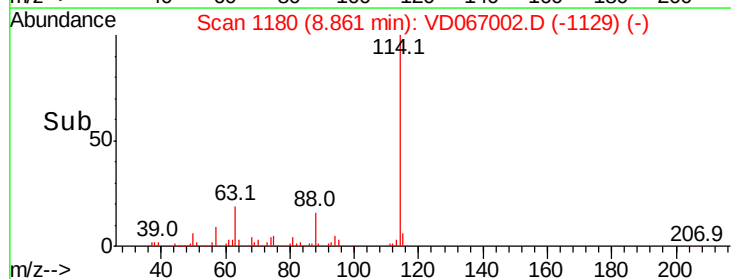
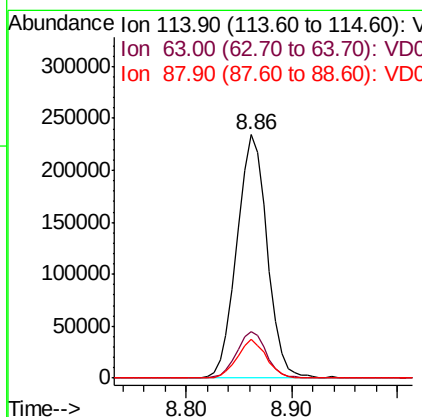
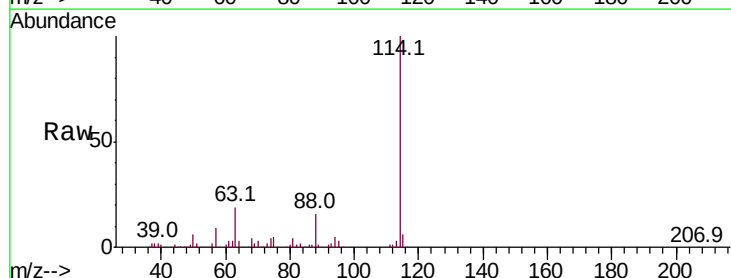
Instrument :
 MSVOA_D
 ClientSampleId :
 RO-21

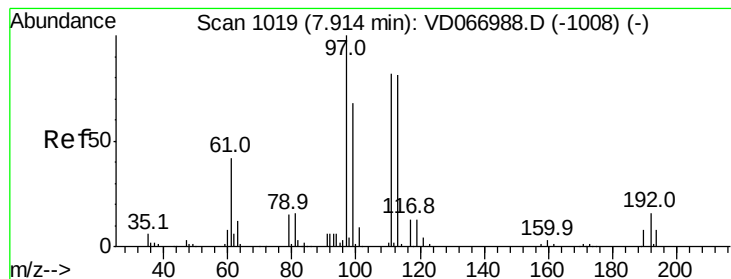
Tot Ion: 65 Resp: 177363
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067002.D
 Acq: 01 Oct 2020 19:37

Tgt Ion: 114 Resp: 465889
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.4
 88 15.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 53.543 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

Instrument :

MSVOA_D

ClientSampleId :

RO-21

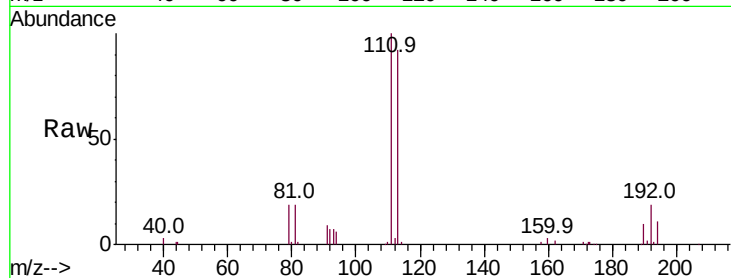
Tot Ion:113 Resp: 163312

Ion Ratio Lower Upper

113 100

111 105.3 83.0 124.4

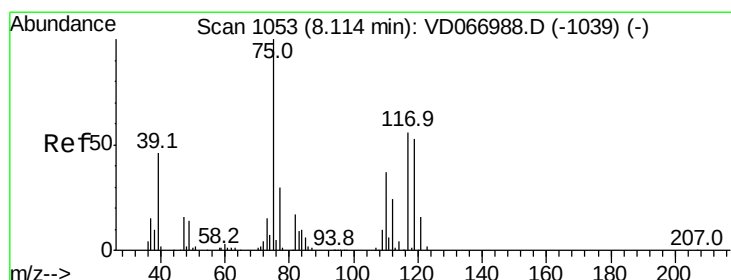
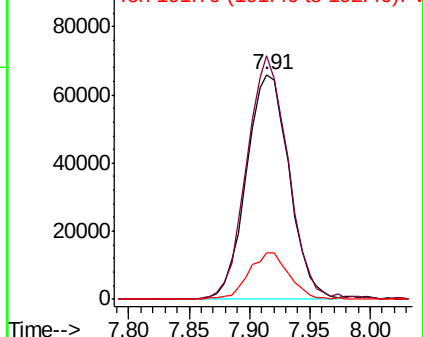
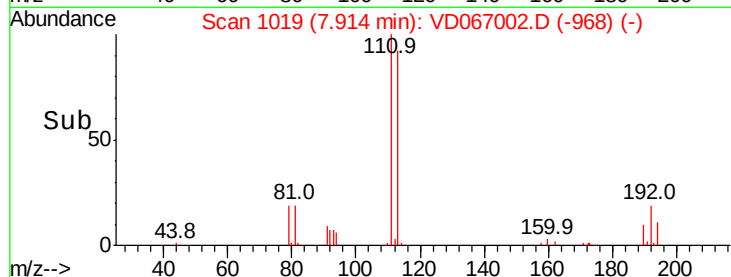
192 19.7 15.5 23.3



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: 4.697 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

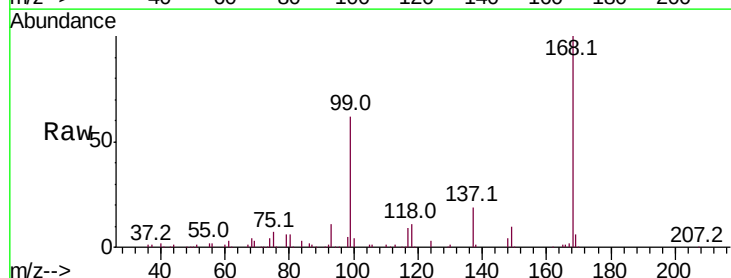
Tgt Ion: 75 Resp: 20399

Ion Ratio Lower Upper

75 100

110 11.9 18.4 55.0#

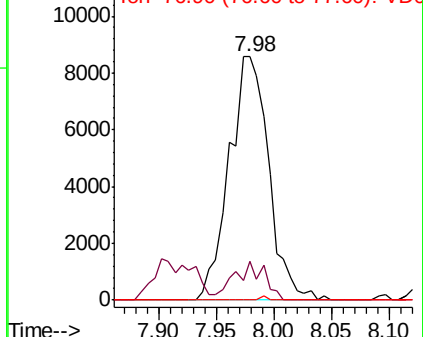
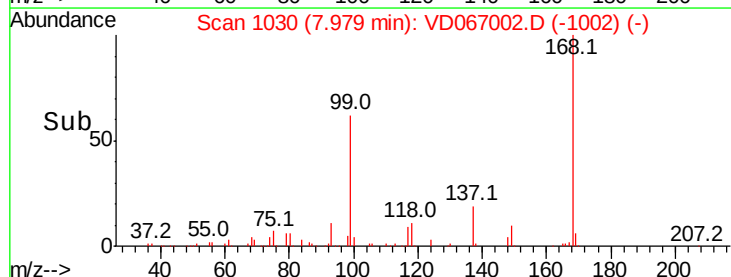
77 0.3 24.8 37.2#

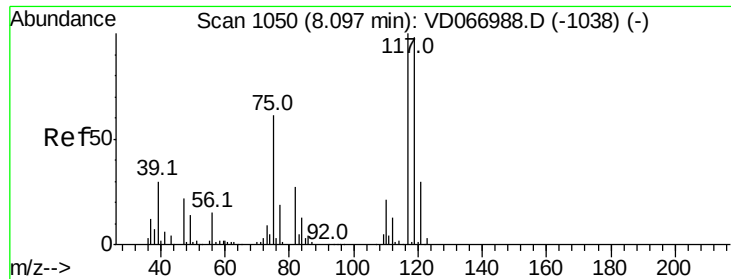


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.563 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

Instrument :

MSVOA_D

ClientSampleId :

RO-21

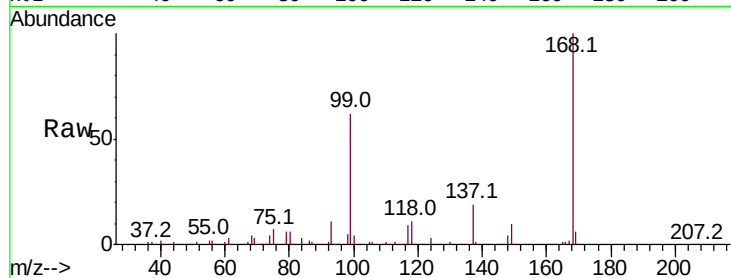
Tot Ion:117 Resp: 26139

Ion Ratio Lower Upper

117 100

119 3.9 78.7 118.1#

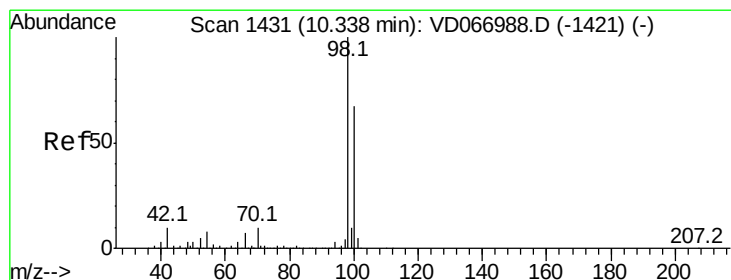
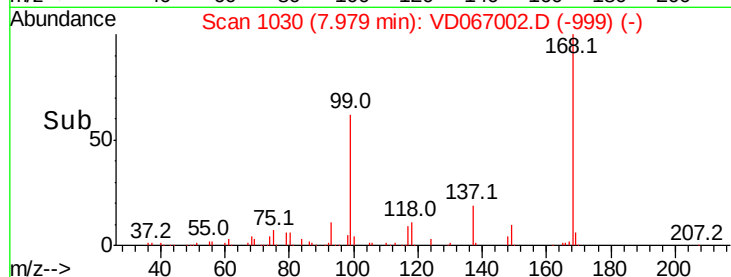
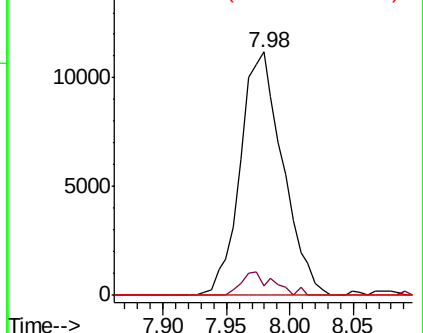
121 0.0 24.2 36.2#



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: 49.723 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067002.D

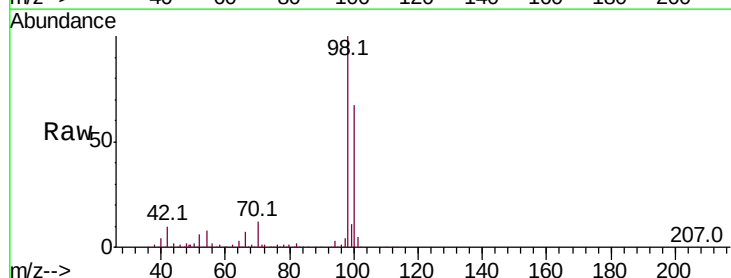
Acq: 01 Oct 2020 19:37

Tgt Ion: 98 Resp: 552632

Ion Ratio Lower Upper

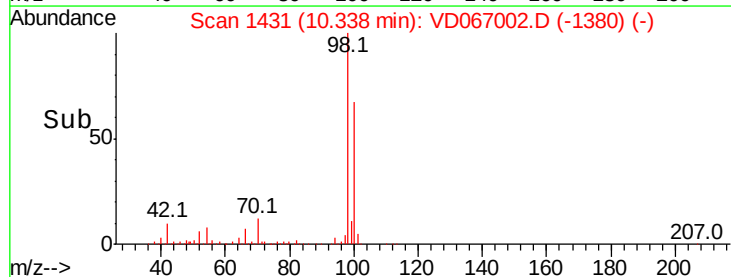
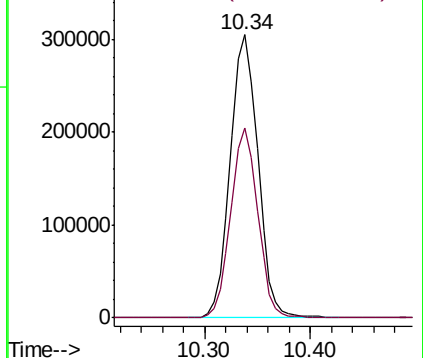
98 100

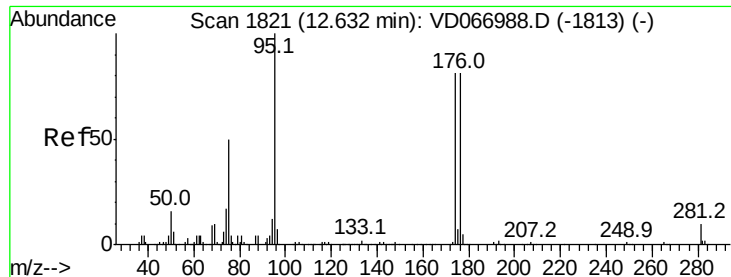
100 65.5 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

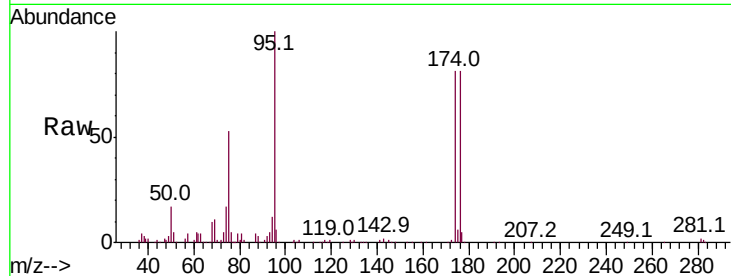




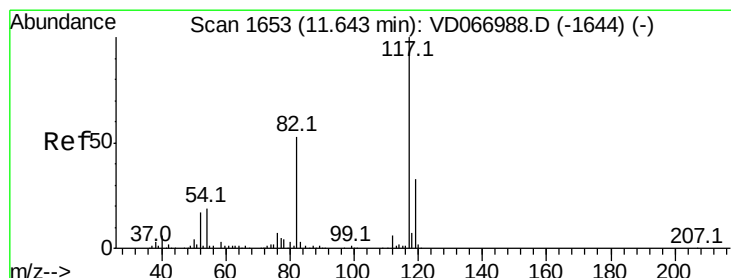
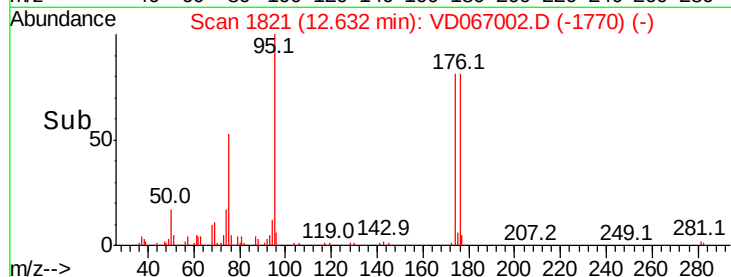
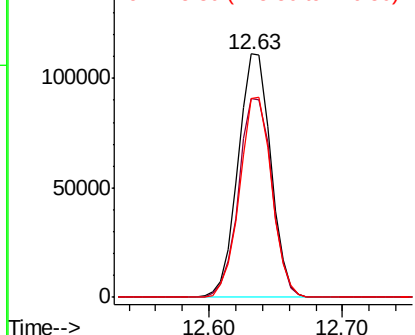
#62
4-Bromofluorobenzene
Concen: 50.067 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD067002.D
Acq: 01 Oct 2020 19:37

Instrument :
MSVOA_D
ClientSampleId :
RO-21

Tot Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	167.6
176	80.6	0.0	162.4

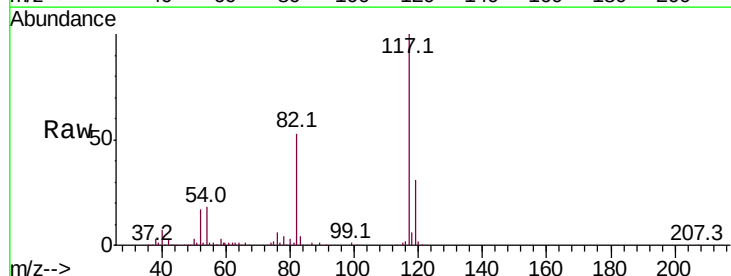


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

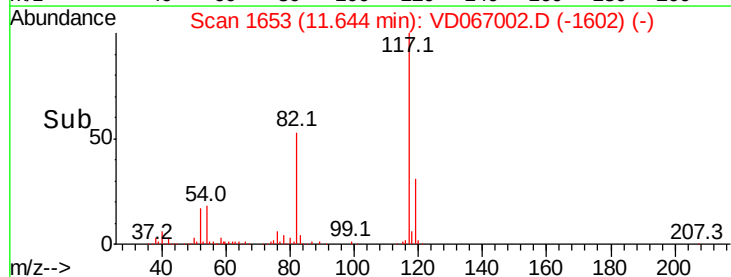
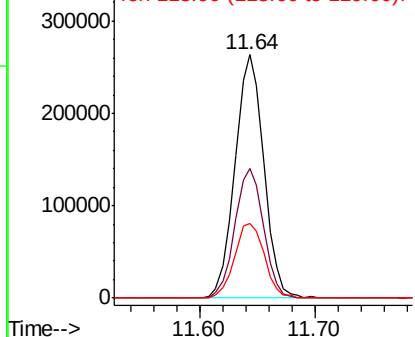


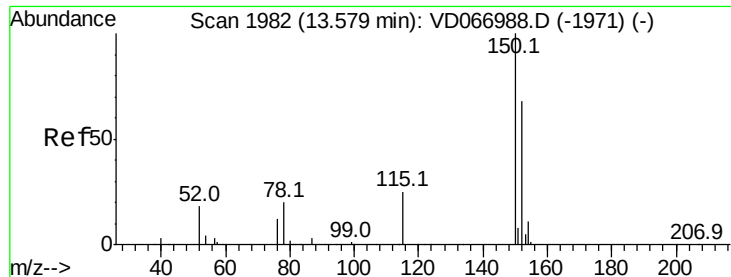
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067002.D
Acq: 01 Oct 2020 19:37

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.6	63.8
119	30.7	26.3	39.5



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



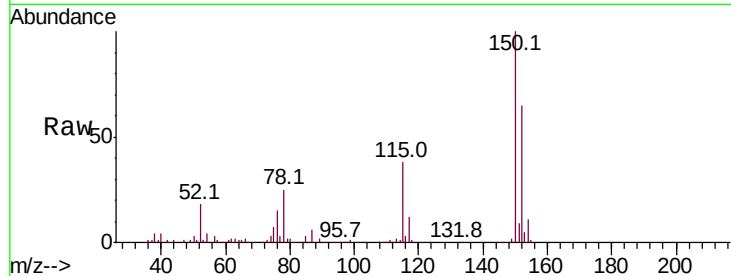


#72

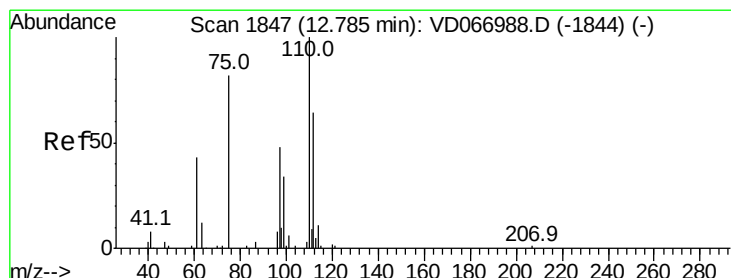
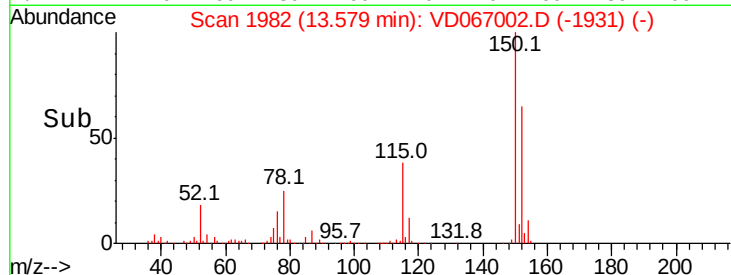
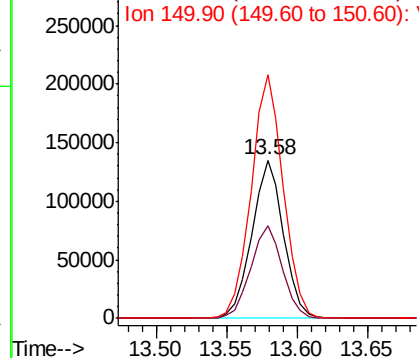
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067002.D
Acq: 01 Oct 2020 19:37

Instrument :
MSVOA_D
ClientSampleId :
RO-21

Tot Ion:152 Resp: 212027
Ion Ratio Lower Upper
152 100
115 58.8 29.6 88.8
150 155.9 0.0 344.8



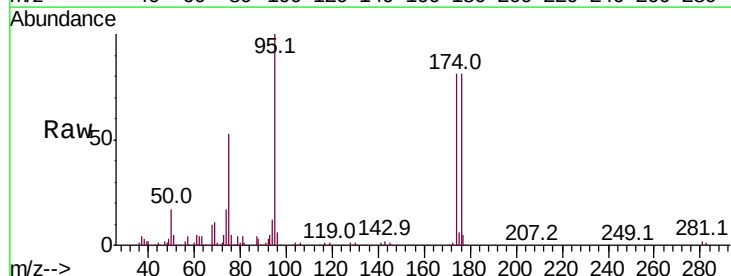
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



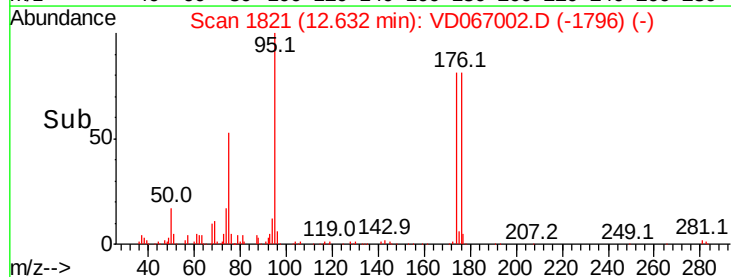
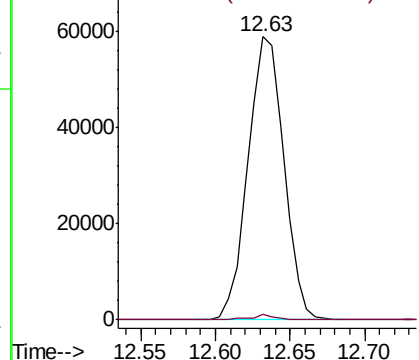
#76

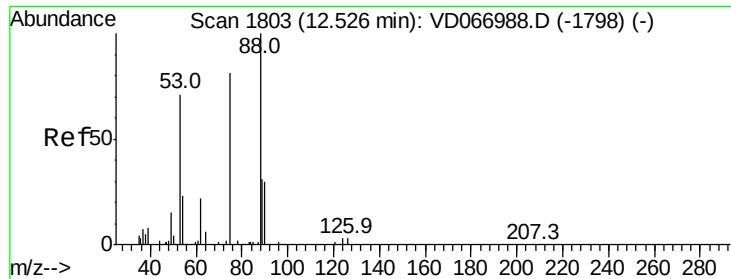
1,2,3-Trichloropropane
Concen: 52.804 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.15 min
Lab File: VD067002.D
Acq: 01 Oct 2020 19:37

Tgt Ion: 75 Resp: 97520
Ion Ratio Lower Upper
75 100
77 1.2 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: 131.647 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067002.D

Acq: 01 Oct 2020 19:37

Instrument :

MSVOA_D

ClientSampleId :

RO-21

Tot Ion: 75 Resp: 97520

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.2 38.9 58.3#

