

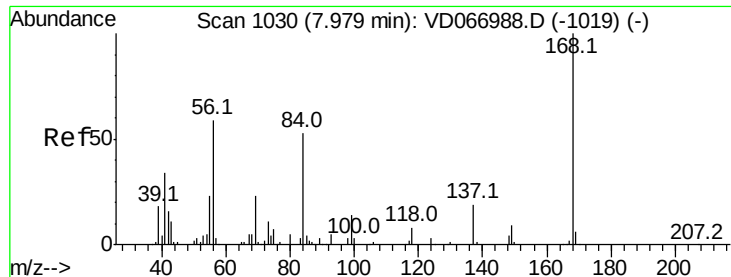
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067044.D
 Acq On : 02 Oct 2020 19:10
 Operator : VA/SY
 Sample : L4195-03RE
 Misc : 11.16G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-251673

Quant Time: Oct 03 04:50:01 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	499956	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	832324	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	762414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	336015	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	251133	52.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.30%	
35) Dibromofluoromethane	7.91	113	271964	49.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.82%	
50) Toluene-d8	10.34	98	992024	49.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.92%	
62) 4-Bromofluorobenzene	12.63	95	323839	48.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.08%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	219	Below Cal	#	40
5) Bromomethane	2.75	94	55	Below Cal	#	3
8) Diethyl Ether	3.71	74	2264	1.029	ug/l	98
11) Tert butyl alcohol	5.22	59	278	Below Cal	#	72
20) Methylene Chloride	4.97	84	21269	Below Cal	#	93
26) 2,2-Dichloropropane	7.21	77	311	Below Cal	#	53
31) Cyclohexane	7.98	56	10217	1.413	ug/l #	3
36) 1,1-Dichloropropene	7.97	75	35552	4.583	ug/l #	50
38) Carbon Tetrachloride	7.98	117	48473	5.775	ug/l #	16
49) 1,4-Dioxane	9.47	88	135	4.445	ug/l #	25
51) 4-Methyl-2-Pentanone	10.34	43	5302	2.150	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	158539	54.168	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	158539	135.048	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067044.D

Acq: 02 Oct 2020 19:10

Instrument :

MSVOA_D

ClientSampleId :

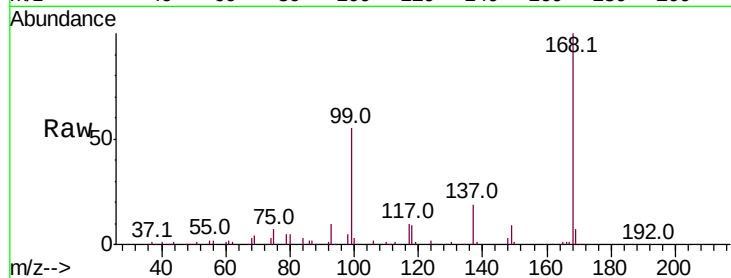
RBR-251673

Tot Ion:168 Resp: 499956

Ion Ratio Lower Upper

168 100

99 55.3 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

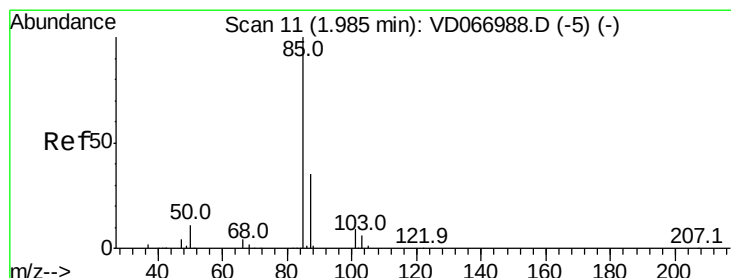
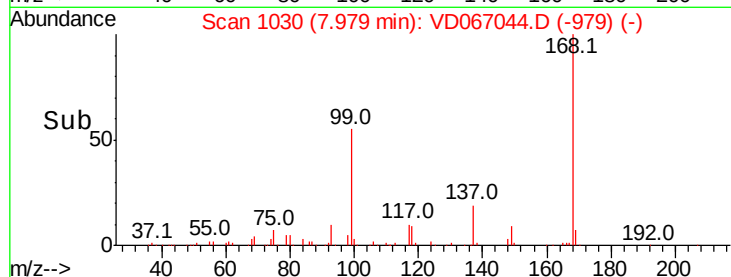
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067044.D

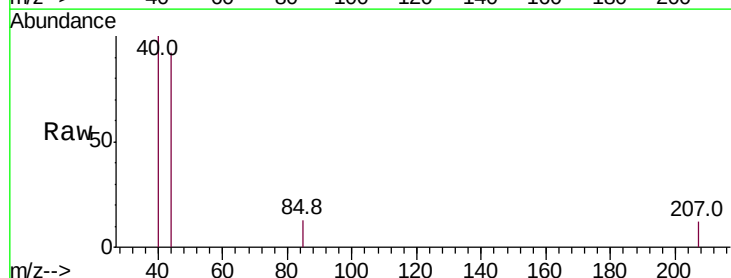
Acq: 02 Oct 2020 19:10

Tgt Ion: 85 Resp: 219

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

400

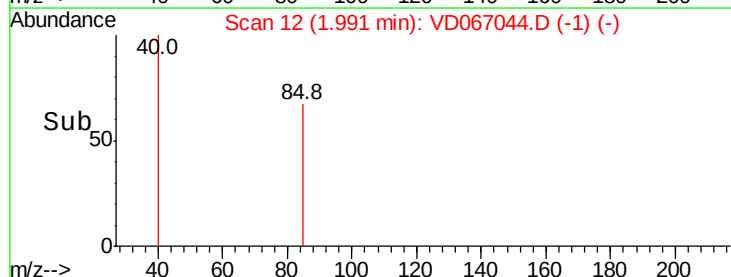
300

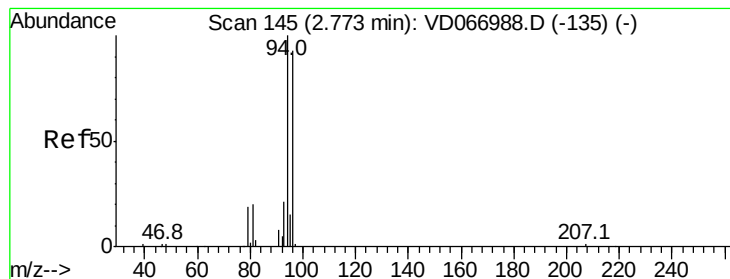
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.75 min Scan# 141

Delta R.T. -0.02 min

Lab File: VD067044.D

Acq: 02 Oct 2020 19:10

Instrument :

MSVOA_D

ClientSampleId :

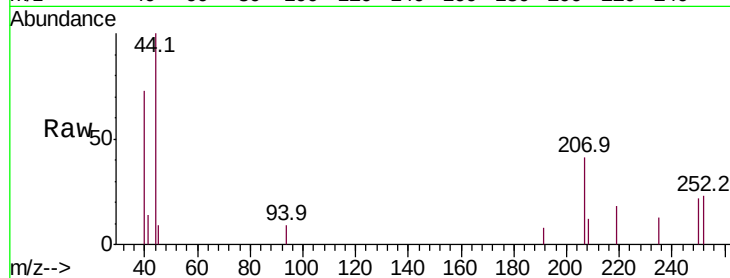
RBR-251673

Tot Ion: 94 Resp: 55

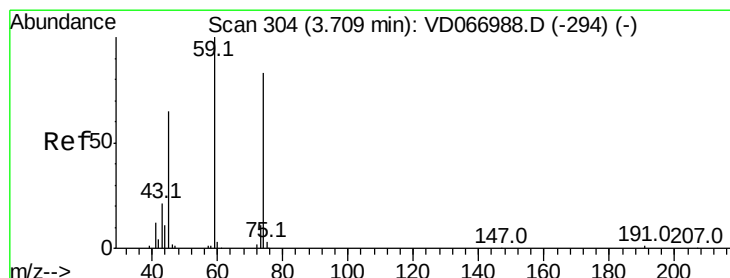
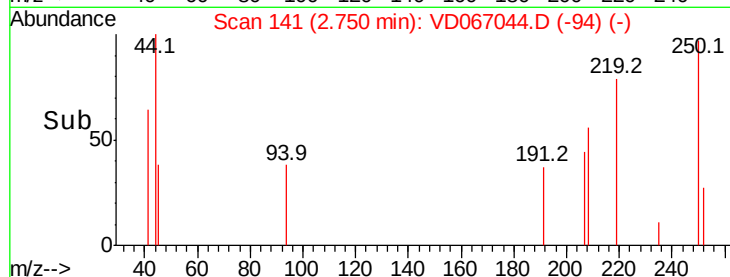
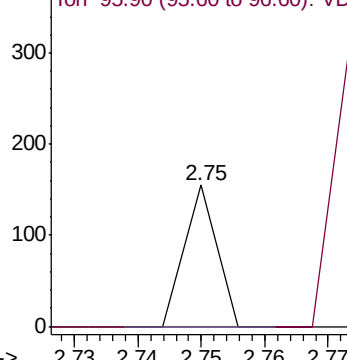
Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#8

Diethyl Ether

Concen: 1.029 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.00 min

Lab File: VD067044.D

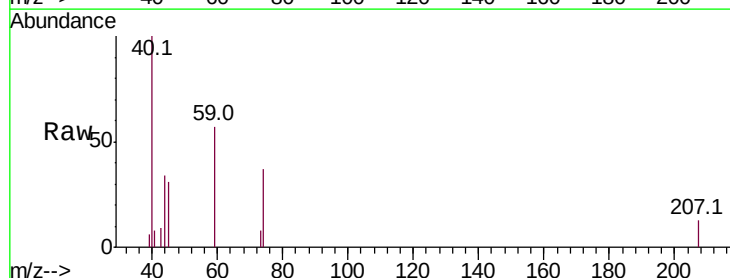
Acq: 02 Oct 2020 19:10

Tgt Ion: 74 Resp: 2264

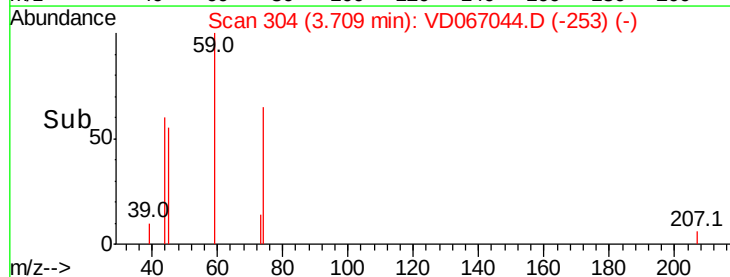
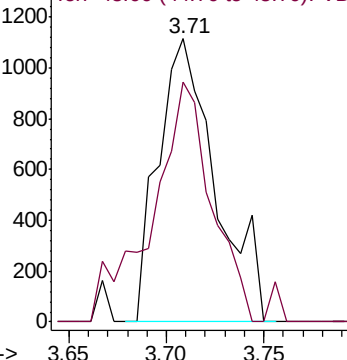
Ion Ratio Lower Upper

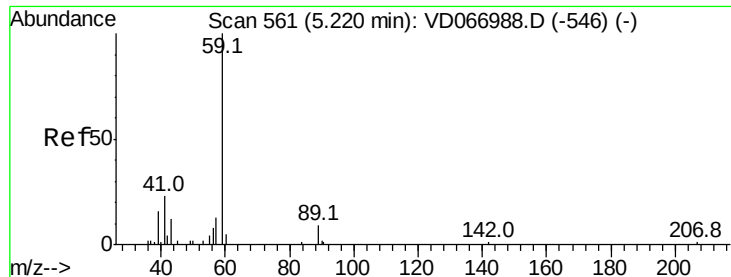
74 100

45 88.2 43.1 129.3



Abundance Ion 74.00 (73.70 to 74.70): VDC



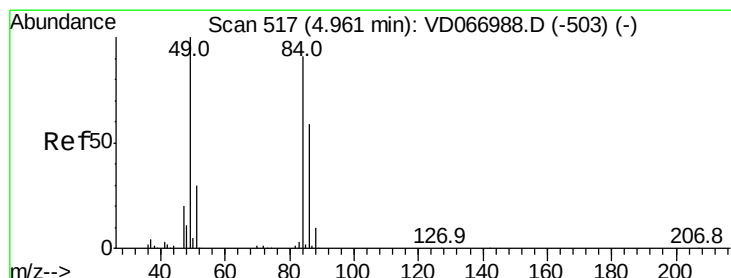
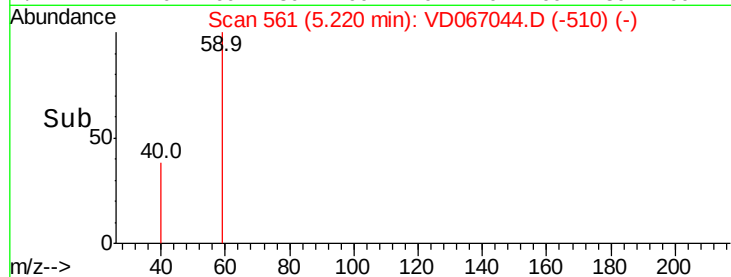
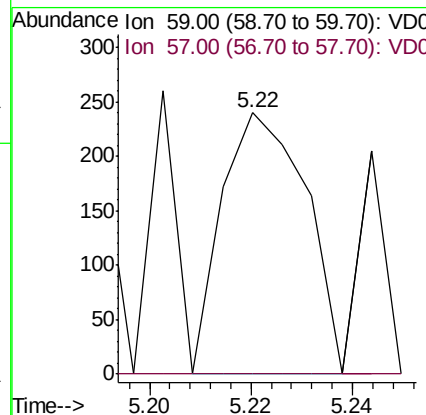
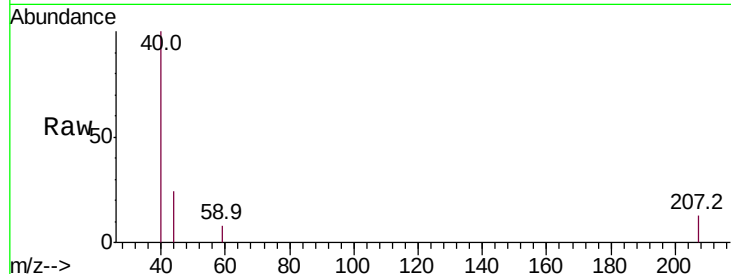


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.22 min Scan# 561
Delta R.T. 0.00 min
Lab File: VD067044.D
Acq: 02 Oct 2020 19:10

Instrument :
MSVOA_D
ClientSampleId :
RBR-251673

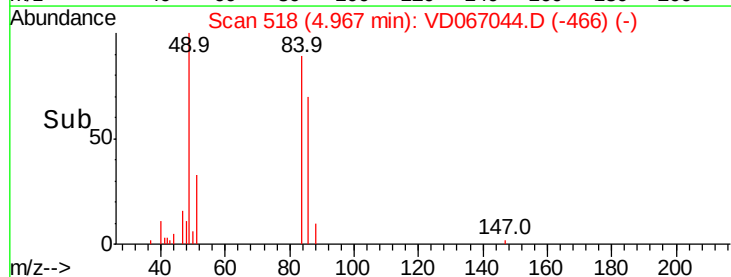
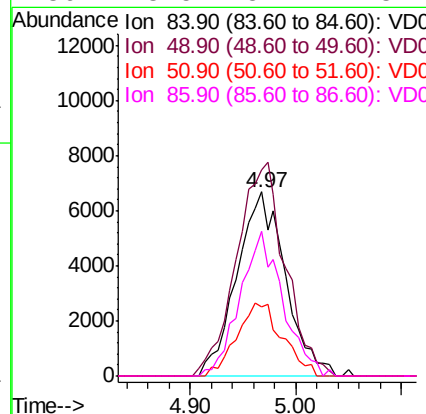
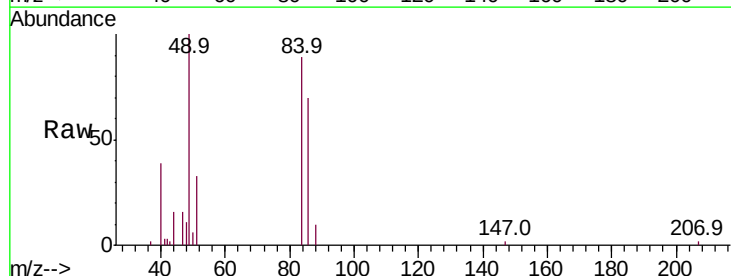
Tot Ion: 59 Resp: 278
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

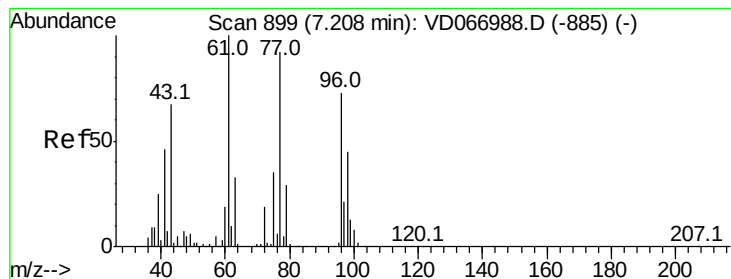


#20

Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD067044.D
Acq: 02 Oct 2020 19:10

Tgt Ion: 84 Resp: 21269
Ion Ratio Lower Upper
84 100
49 112.1 88.2 132.2
51 37.5 26.6 39.8
86 78.5 52.1 78.1#





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD067044.D

Acq: 02 Oct 2020 19:10

Instrument :

MSVOA_D

ClientSampleId :

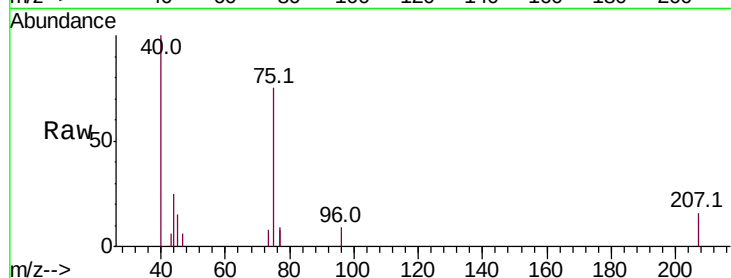
RBR-251673

Tot Ion: 77 Resp: 311

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

7.21

400

300

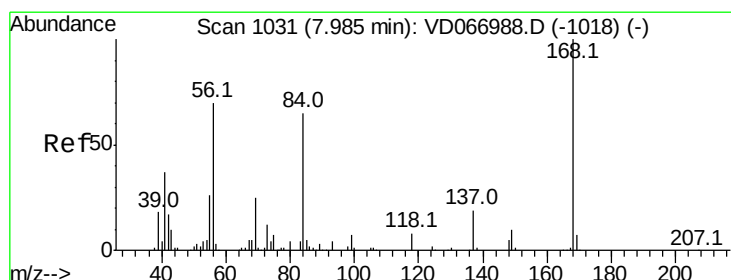
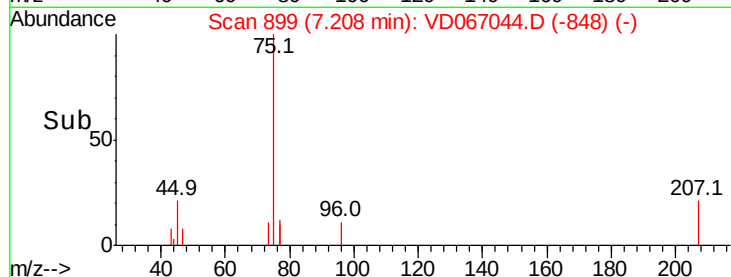
200

100

0

7.18 7.20 7.22 7.24

Time-->



#31

Cyclohexane

Concen: 1.413 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067044.D

Acq: 02 Oct 2020 19:10

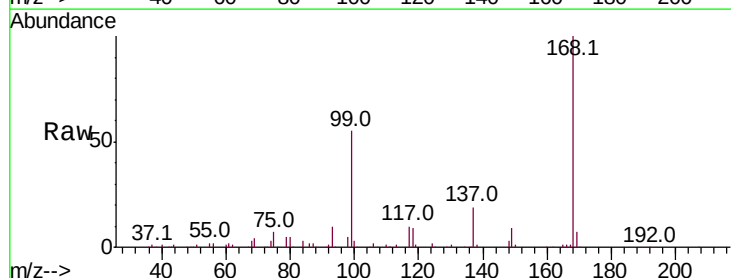
Tgt Ion: 56 Resp: 10217

Ion Ratio Lower Upper

56 100

69 170.4 29.0 43.6#

84 136.5 74.2 111.2#



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

10000

8000

6000

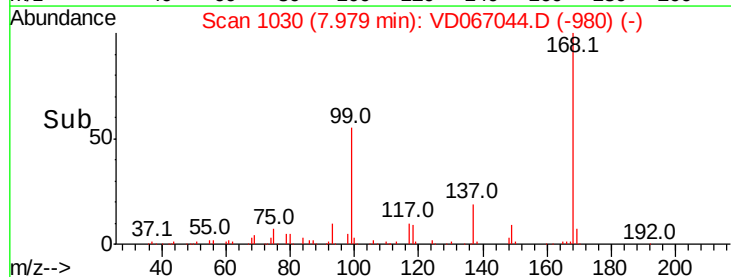
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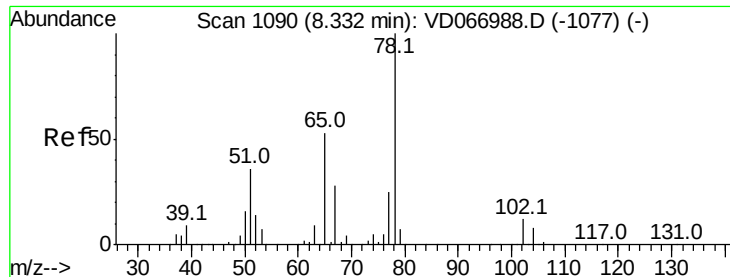
2000

0

7.90 7.95 8.00 8.05

Time-->

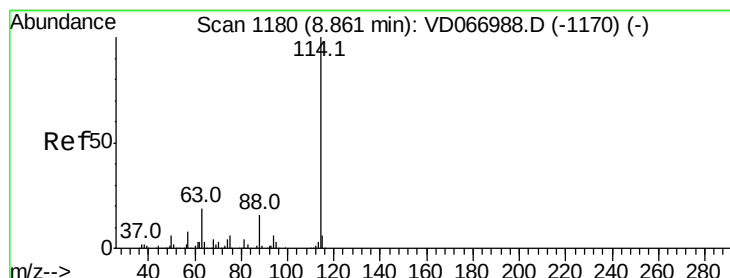
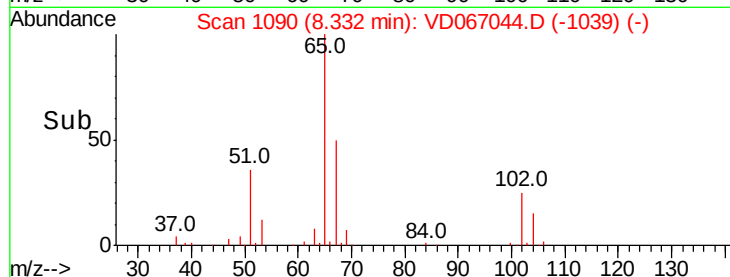
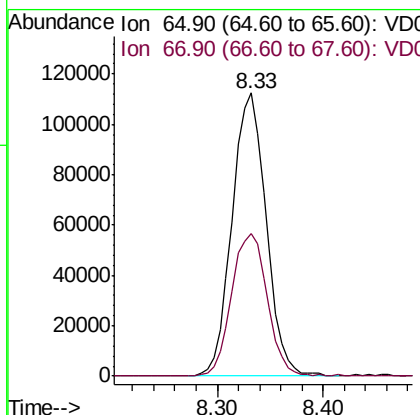
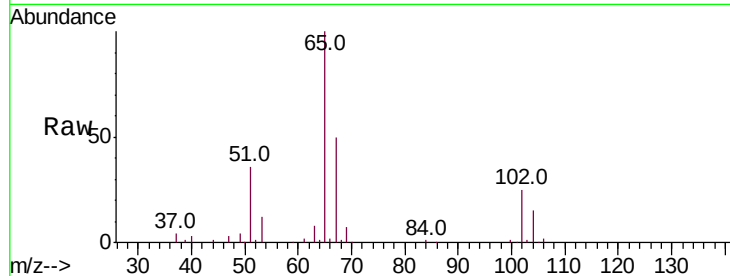




#33
 1,2-Dichloroethane-d4
 Concen: 52.150 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067044.D
 Acq: 02 Oct 2020 19:10

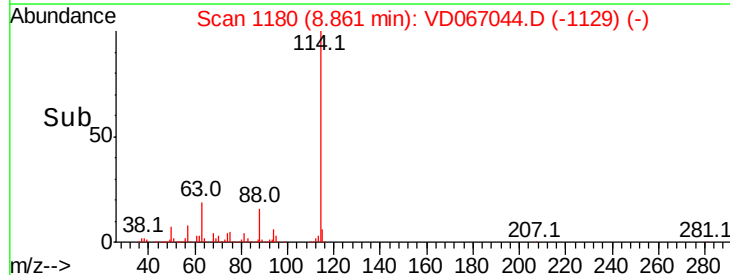
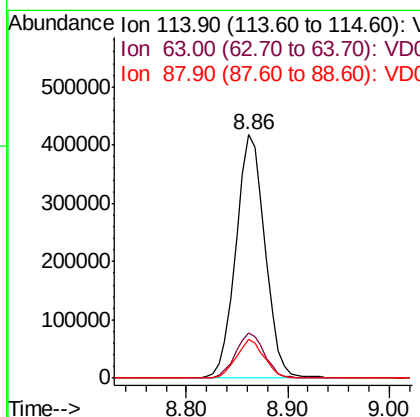
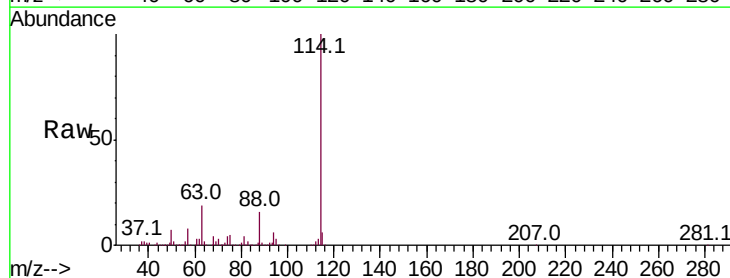
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-251673

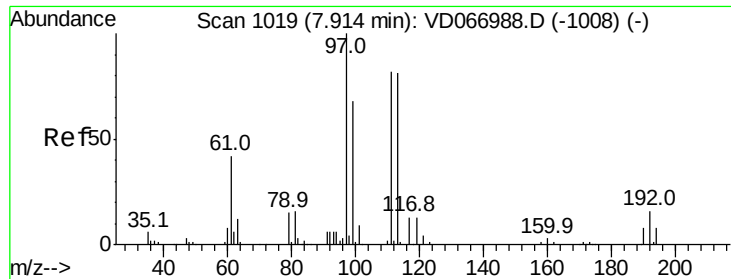
Tot Ion: 65 Resp: 251133
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067044.D
 Acq: 02 Oct 2020 19:10

Tgt Ion: 114 Resp: 832324
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 38.4
 88 15.7 0.0 31.2

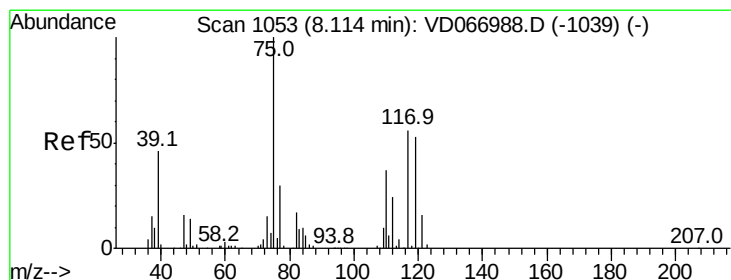
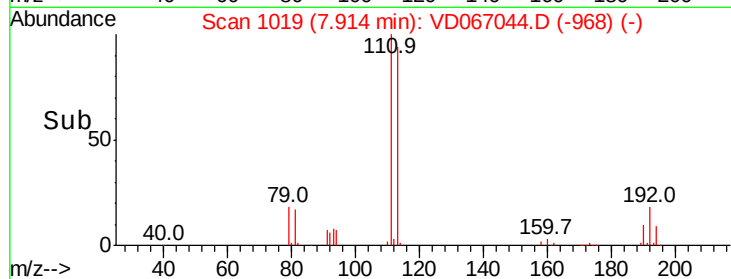
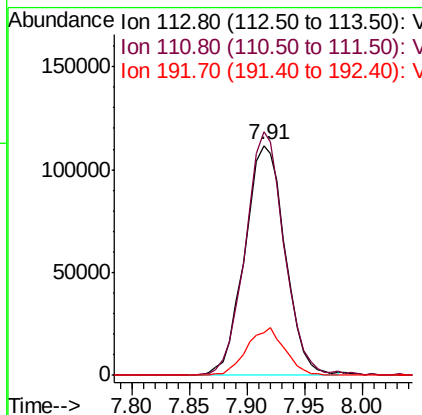
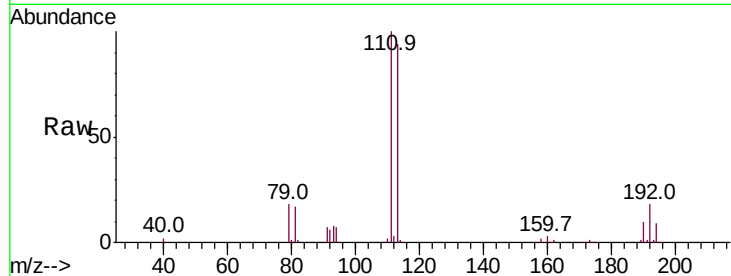




#35
 Dibromofluoromethane
 Concen: 49.910 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067044.D
 Acq: 02 Oct 2020 19:10

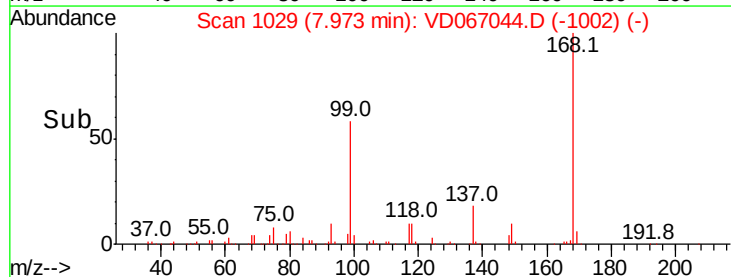
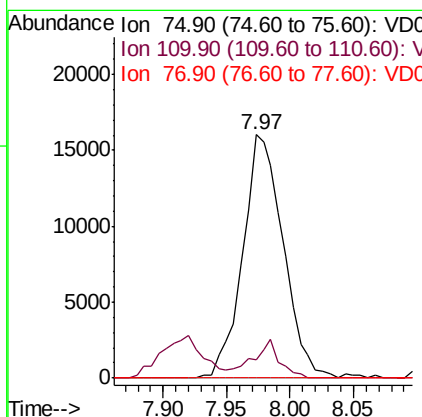
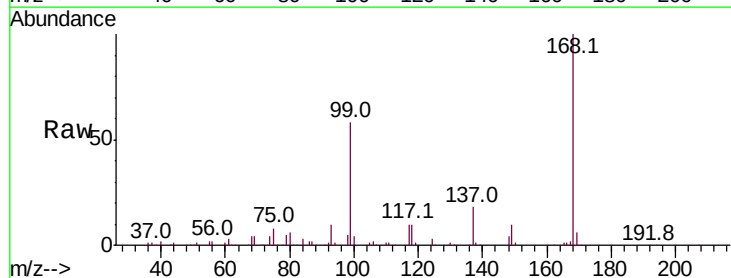
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-251673

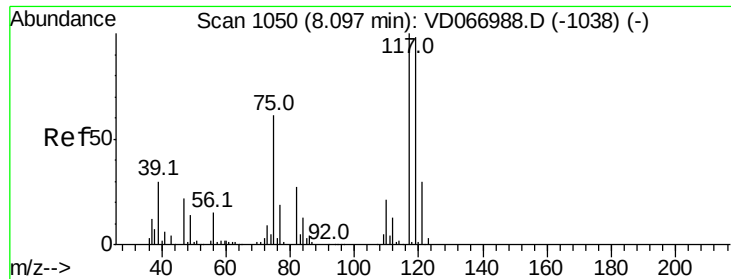
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.0	124.4
192	19.6	15.5	23.3



#36
 1,1-Dichloropropene
 Concen: 4.583 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD067044.D
 Acq: 02 Oct 2020 19:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.4	55.0#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 5.775 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067044.D

Acq: 02 Oct 2020 19:10

Instrument :

MSVOA_D

ClientSampleId :

RBR-251673

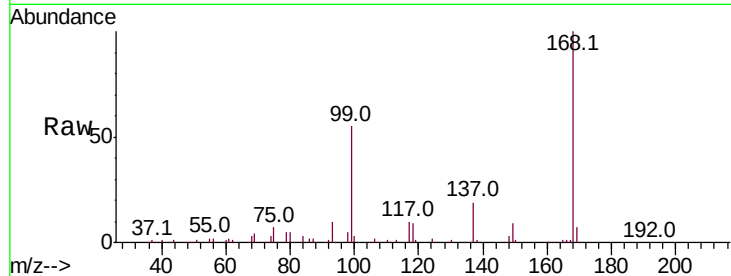
Tot Ion:117 Resp: 48473

Ion Ratio Lower Upper

117 100

119 6.2 78.7 118.1#

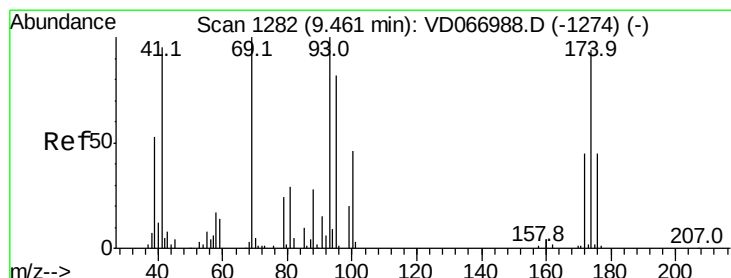
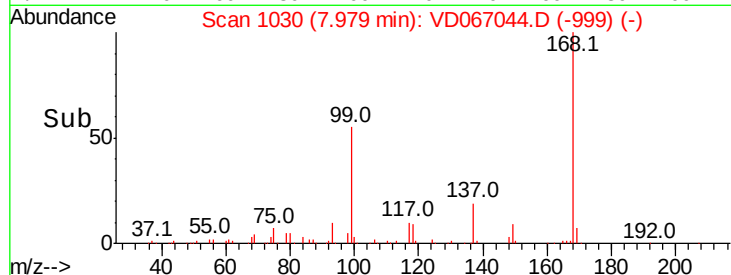
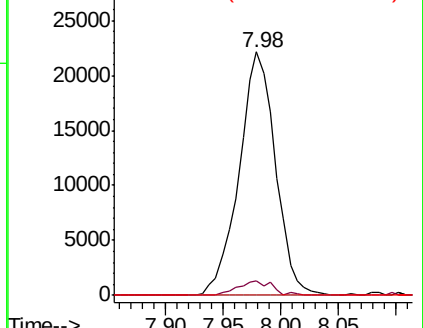
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 4.445 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VD067044.D

Acq: 02 Oct 2020 19:10

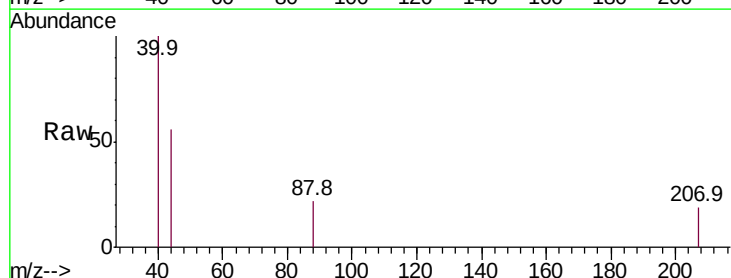
Tgt Ion: 88 Resp: 135

Ion Ratio Lower Upper

88 100

43 0.0 25.6 38.4#

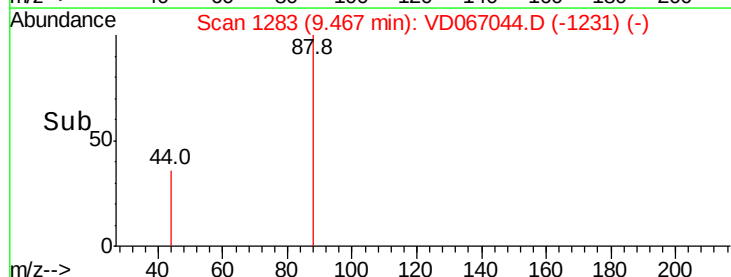
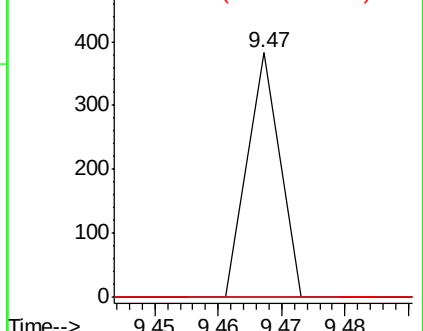
58 0.0 53.5 80.3#

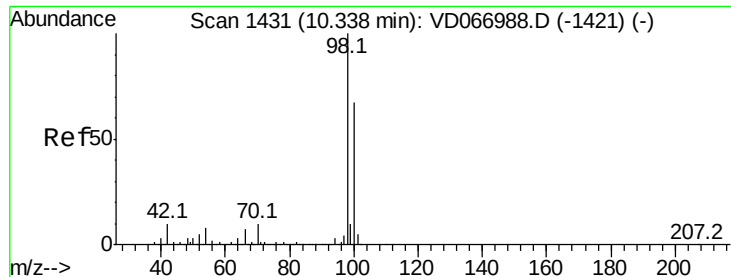


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

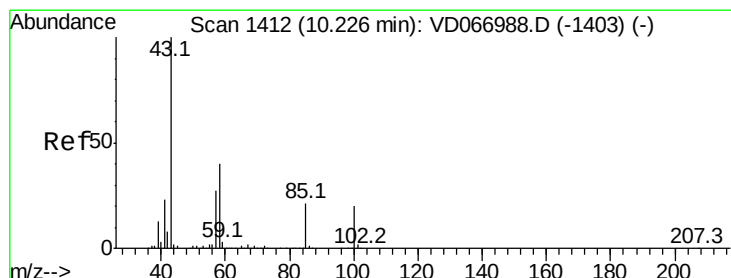
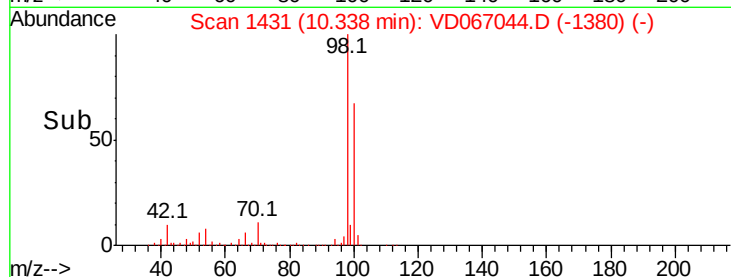
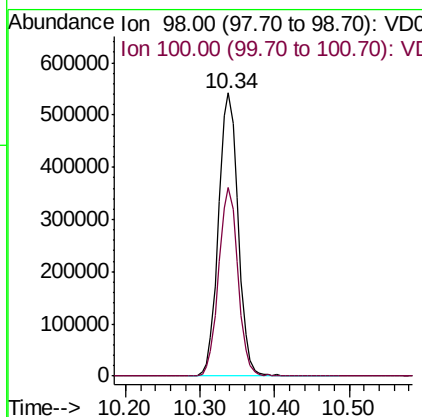
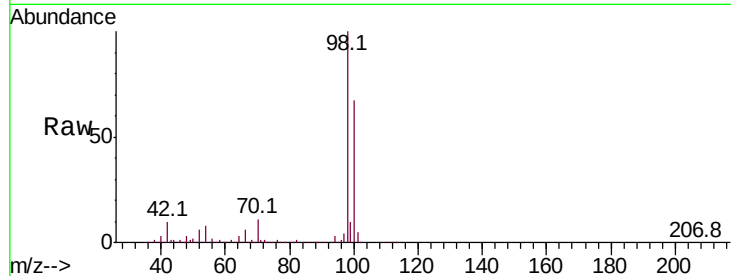




#50
Toluene-d8
Concen: 49.962 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067044.D
Acq: 02 Oct 2020 19:10

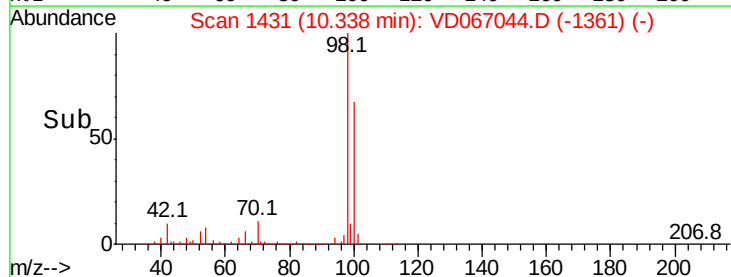
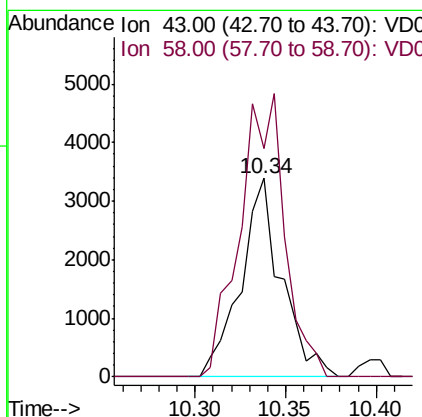
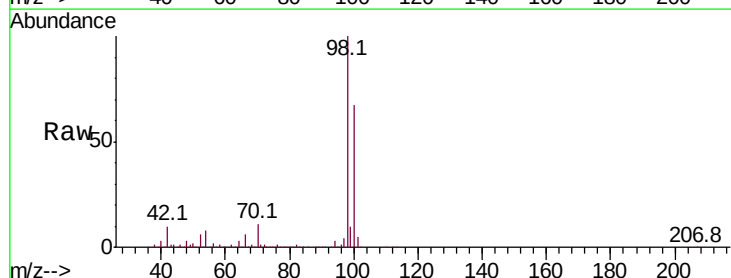
Instrument :
MSVOA_D
ClientSampleId :
RBR-251673

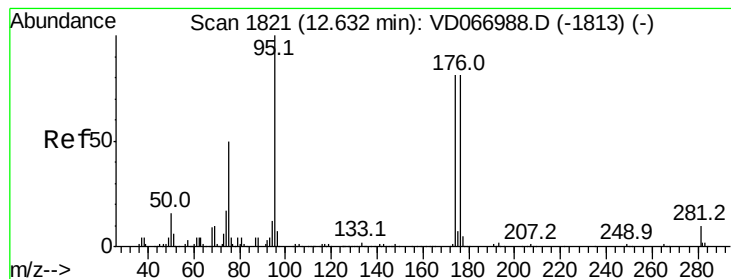
Tot Ion: 98 Resp: 992024
Ion Ratio Lower Upper
98 100
100 65.5 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 2.150 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.11 min
Lab File: VD067044.D
Acq: 02 Oct 2020 19:10

Tgt Ion: 43 Resp: 5302
Ion Ratio Lower Upper
43 100
58 157.1 33.8 50.8#





#62

4-Bromofluorobenzene

Concen: 48.043 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD067044.D

Acq: 02 Oct 2020 19:10

Instrument :

MSVOA_D

ClientSampleId :

RBR-251673

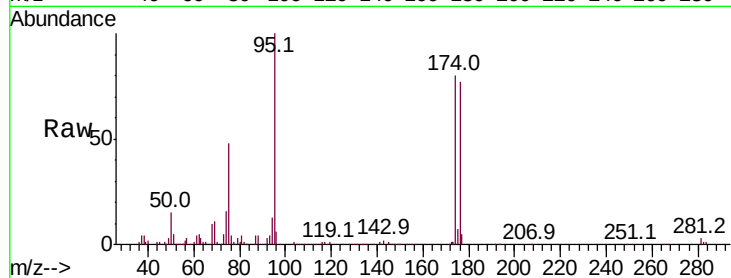
Tot Ion: 95 Resp: 323839

Ion Ratio Lower Upper

95 100

174 81.7 0.0 167.6

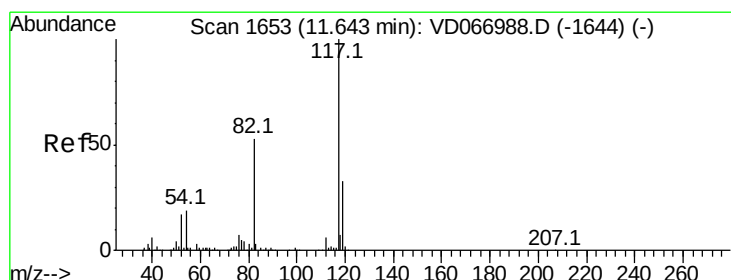
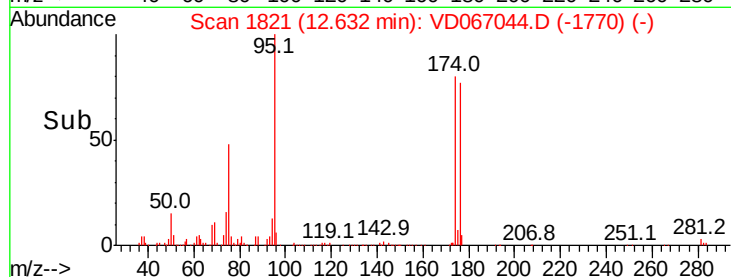
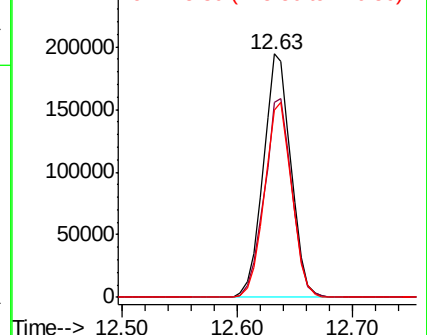
176 79.2 0.0 162.4



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: VD067044.D

Acq: 02 Oct 2020 19:10

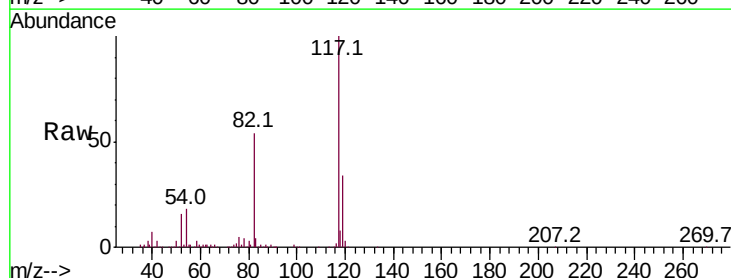
Tgt Ion: 117 Resp: 762414

Ion Ratio Lower Upper

117 100

82 54.5 42.6 63.8

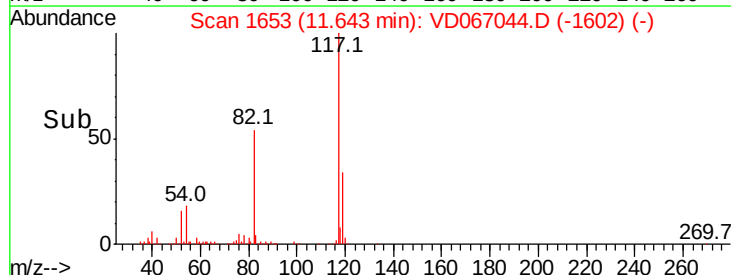
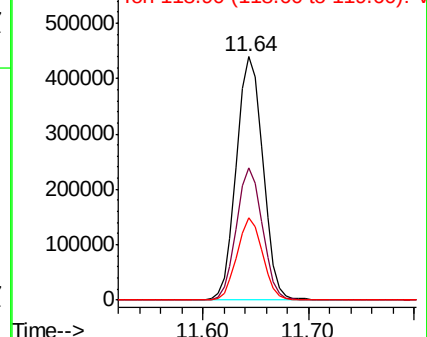
119 33.8 26.3 39.5

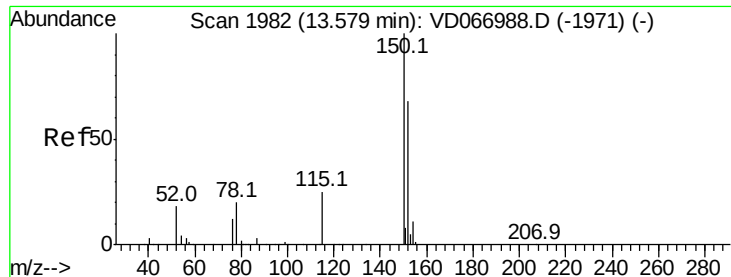


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



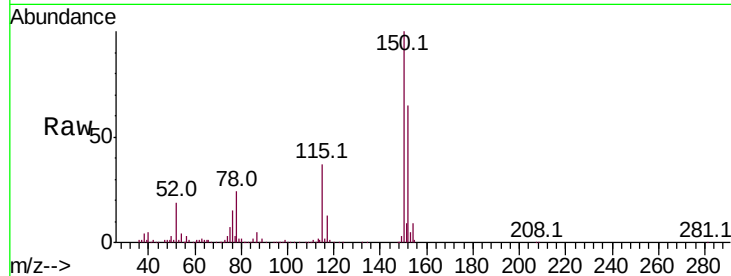


#72

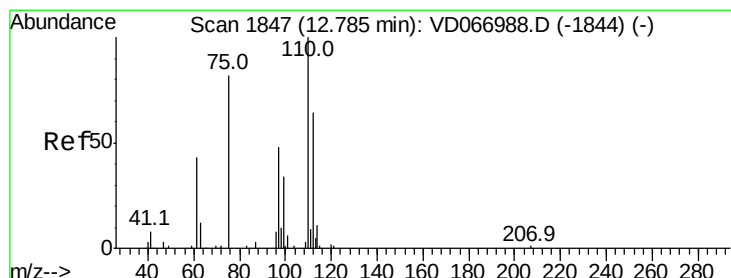
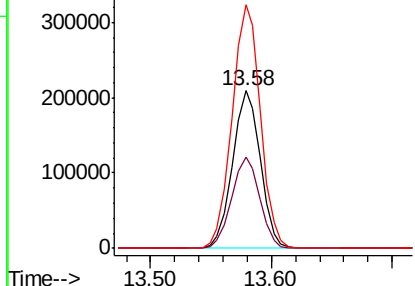
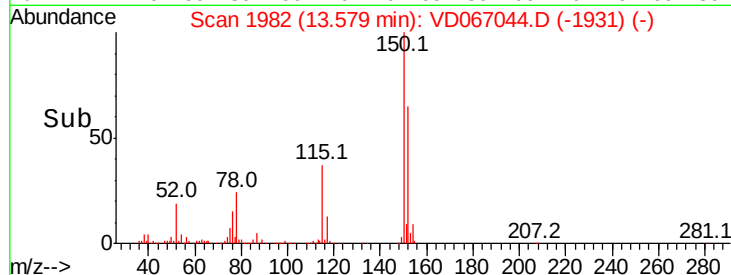
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067044.D
Acq: 02 Oct 2020 19:10

Instrument :
MSVOA_D
ClientSampleId :
RBR-251673

Tot Ion:152 Resp: 336015
Ion Ratio Lower Upper
152 100
115 58.2 29.6 88.8
150 156.8 0.0 344.8



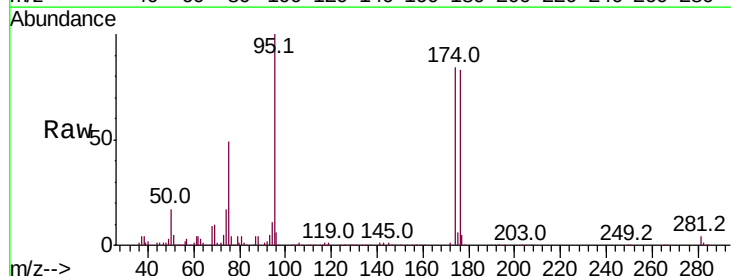
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



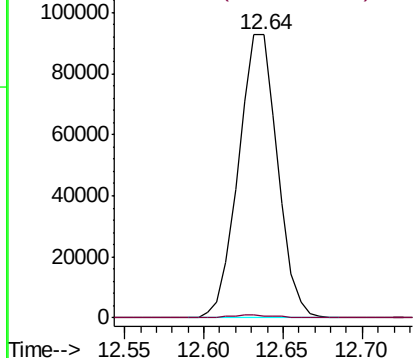
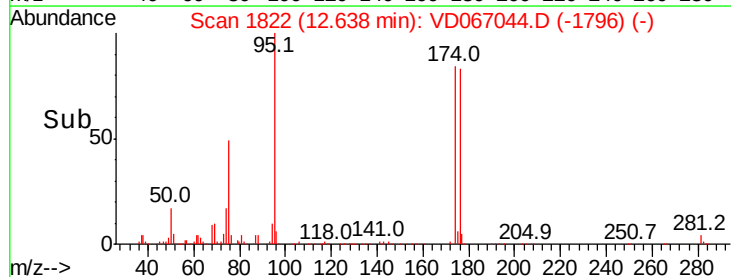
#76

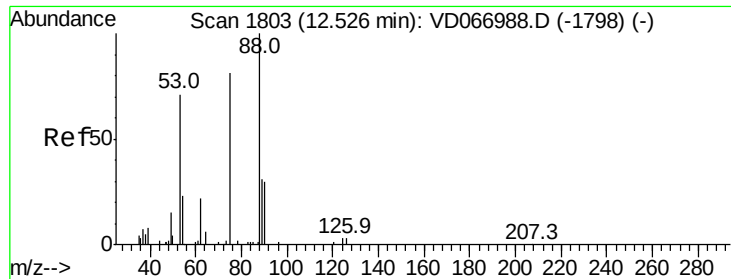
1,2,3-Trichloropropane
Concen: 54.168 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD067044.D
Acq: 02 Oct 2020 19:10

Tgt Ion: 75 Resp: 158539
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: 135.048 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067044.D

Acq: 02 Oct 2020 19:10

Instrument :

MSVOA_D

ClientSampleId :

RBR-251673

Tot Ion: 75 Resp: 158539

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.0 38.9 58.3#

