

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100620\
 Data File : VD067132.D
 Acq On : 07 Oct 2020 03:41
 Operator : VA/SY
 Sample : L4273-05
 Misc : 5.14G/5.00ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-3

Quant Time: Oct 07 05:31:10 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	400337	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	651770	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	615109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	274609	50.00	ug/l	0.00

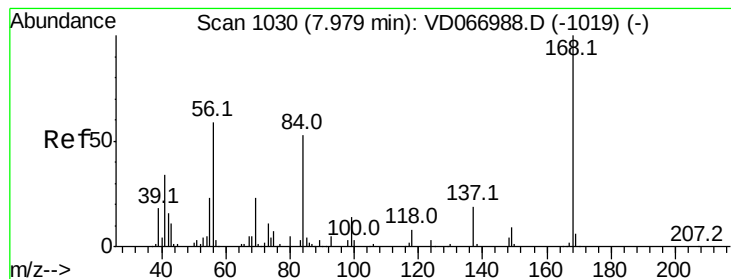
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	191902	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
35) Dibromofluoromethane	7.92	113	212266	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
50) Toluene-d8	10.34	98	764037	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
62) 4-Bromofluorobenzene	12.64	95	245265	46.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	403	Below Cal	#	40
5) Bromomethane	2.54	94	61	Below Cal	#	3
11) Tert butyl alcohol	5.19	59	1261	Below Cal	#	72
20) Methylene Chloride	4.97	84	6146	Below Cal	#	74
25) 2-Butanone	7.20	43	1246	1.493	ug/l #	46
26) 2,2-Dichloropropane	7.21	77	2132	Below Cal		81
27) cis-1,2-Dichloroethene	7.21	96	5343	1.165	ug/l	92
31) Cyclohexane	7.98	56	7870	1.359	ug/l #	45
36) 1,1-Dichloropropene	7.98	75	30058	4.948	ug/l #	50
38) Carbon Tetrachloride	7.98	117	41250	6.275	ug/l #	14
44) Trichloroethene	9.11	130	39754	7.890	ug/l	100
51) 4-Methyl-2-Pentanone	10.34	43	2618	1.356	ug/l #	1
60) Dibromochloromethane	10.87	129	148973	35.279	ug/l #	12
64) Tetrachloroethene	10.87	164	169851	37.982	ug/l	94
76) 1,2,3-Trichloropropane	12.64	75	126648	52.948	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	126648	132.006	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

Instrument :

MSVOA_D

ClientSampleID :

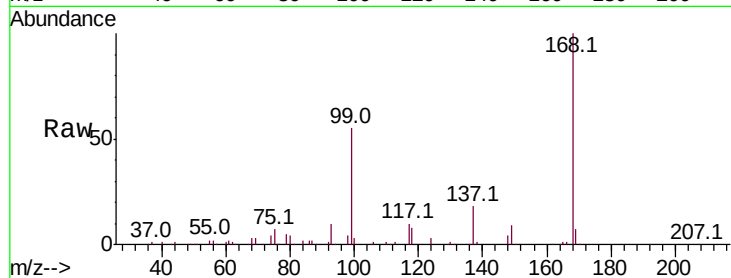
SB-3

Tot Ion:168 Resp: 400337

Ion Ratio Lower Upper

168 100

99 55.2 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

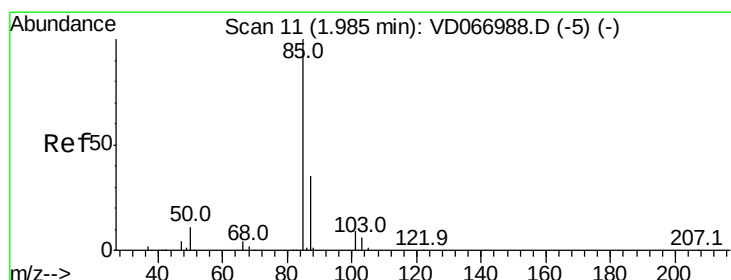
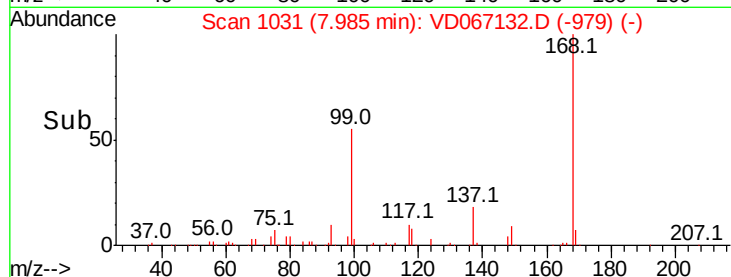
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067132.D

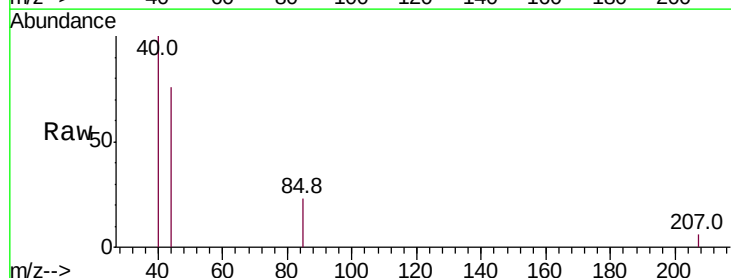
Acq: 07 Oct 2020 03:41

Tgt Ion: 85 Resp: 403

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

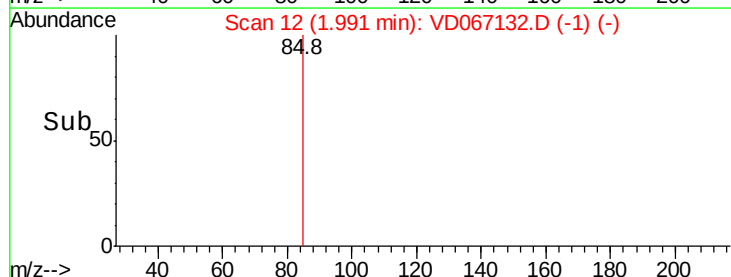
600

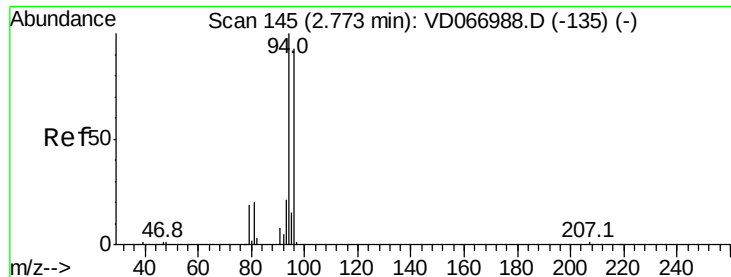
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 105

Delta R.T. -0.23 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

Instrument :

MSVOA_D

ClientSampleId :

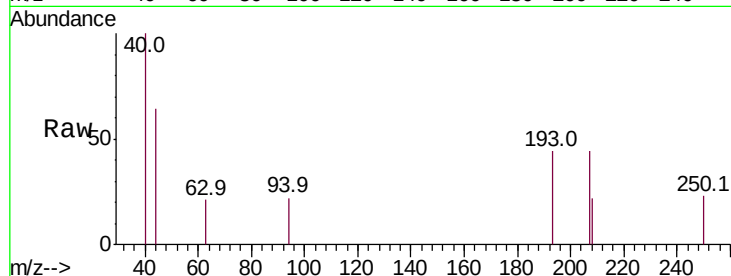
SB-3

Tot Ion: 94 Resp: 61

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.54

150

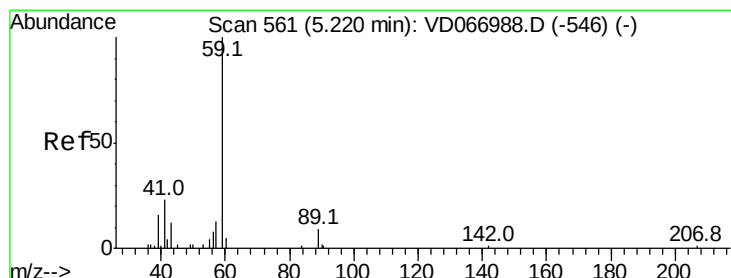
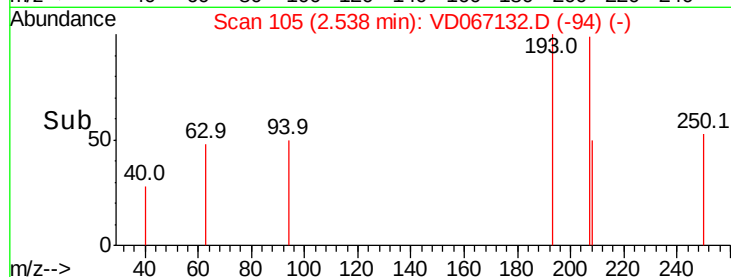
100

50

0

2.52 2.53 2.54 2.55

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 555

Delta R.T. -0.03 min

Lab File: VD067132.D

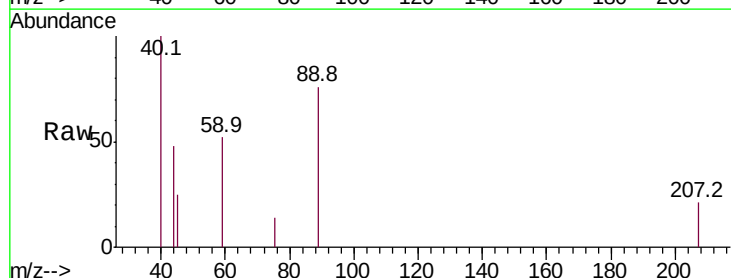
Acq: 07 Oct 2020 03:41

Tgt Ion: 59 Resp: 1261

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

5.19

600

500

400

300

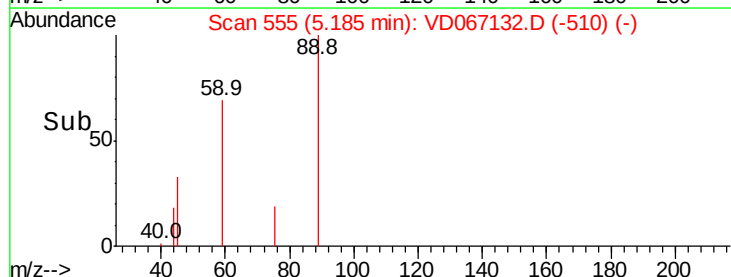
200

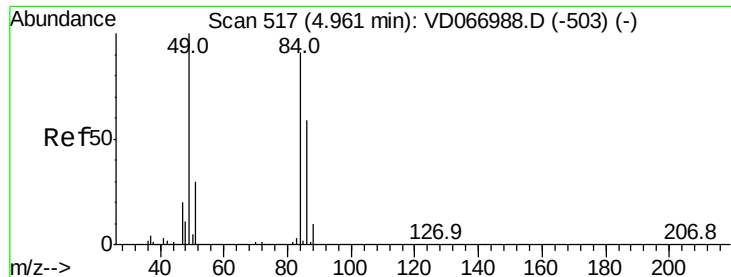
100

0

5.15 5.20 5.25

Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

Instrument :

MSVOA_D

ClientSampled :

SB-3

Tot Ion: 84 Resp: 6146

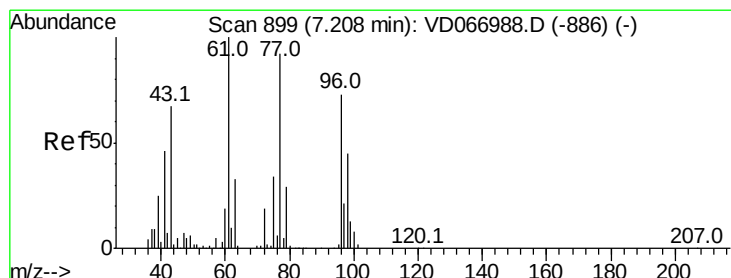
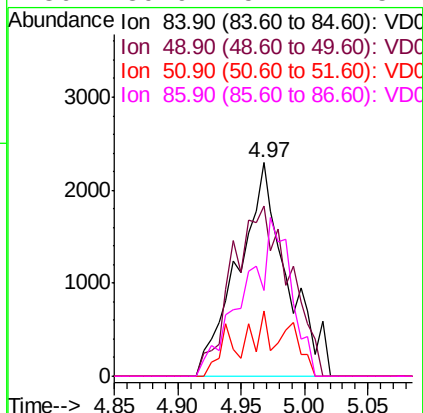
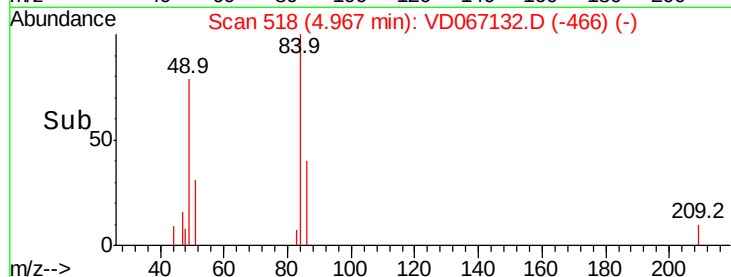
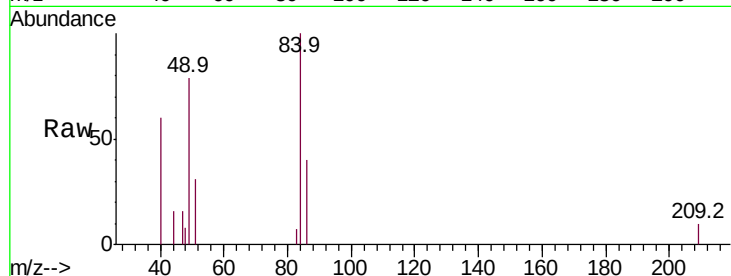
Ion Ratio Lower Upper

84 100

49 79.5 88.2 132.2#

51 30.7 26.6 39.8

86 39.9 52.1 78.1#



#25

2-Butanone

Concen: 1.493 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067132.D

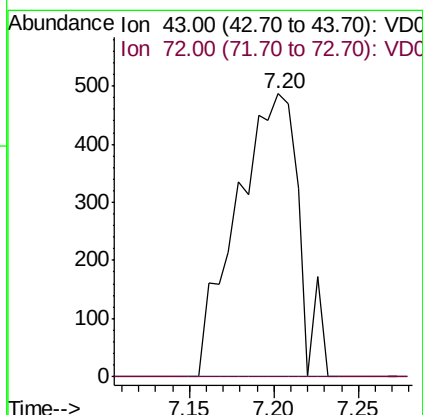
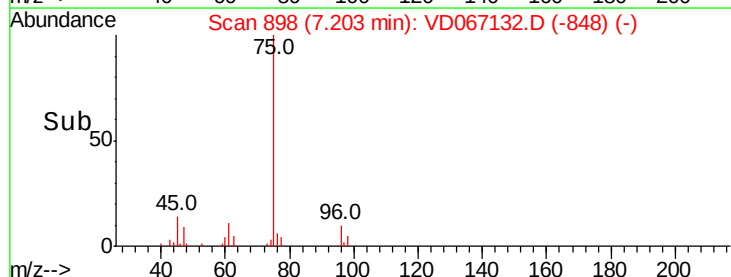
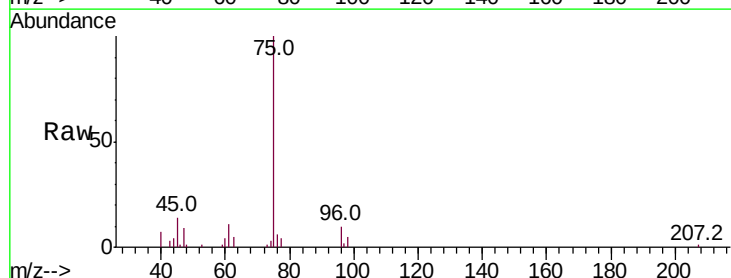
Acq: 07 Oct 2020 03:41

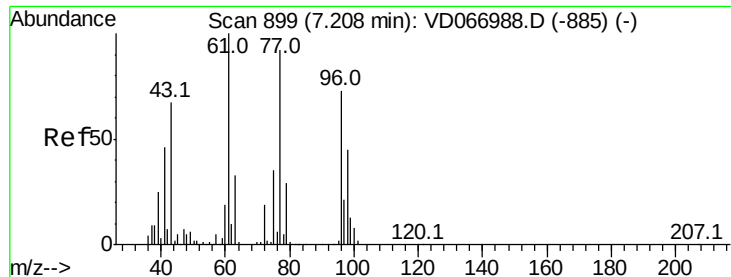
Tgt Ion: 43 Resp: 1246

Ion Ratio Lower Upper

43 100

72 0.0 22.8 34.2#

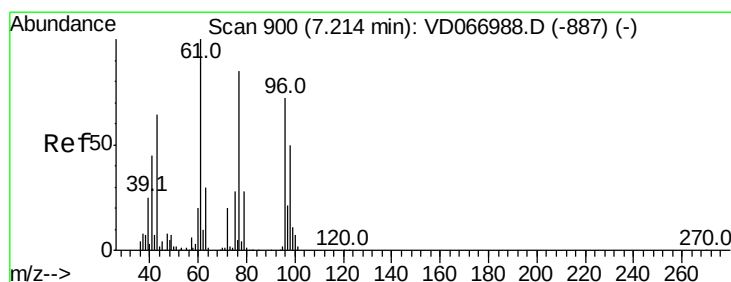
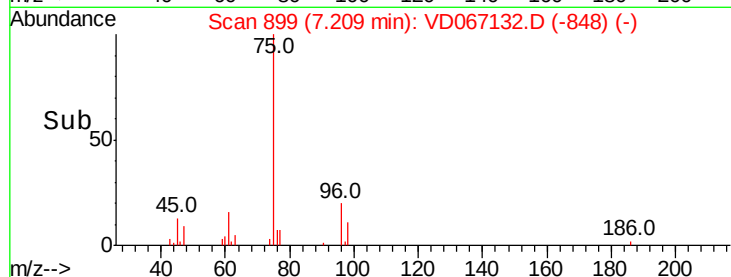
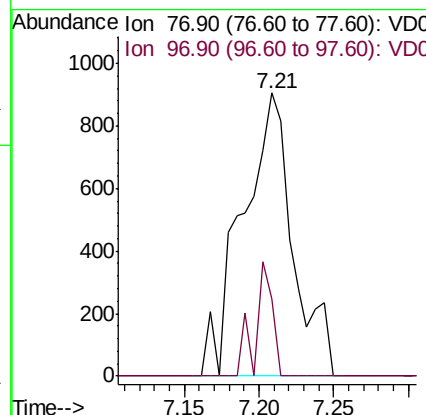
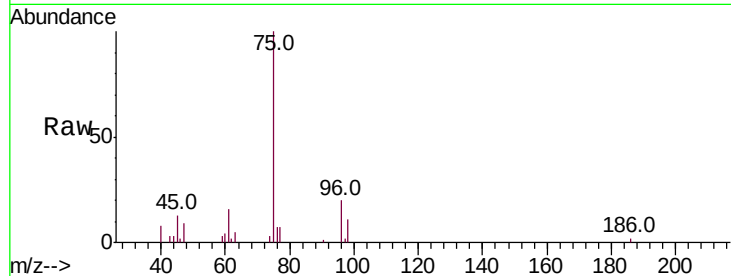




#26
 2,2-Dichloropropane
 Concen: Below Cal
 RT: 7.21 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VD067132.D
 Acq: 07 Oct 2020 03:41

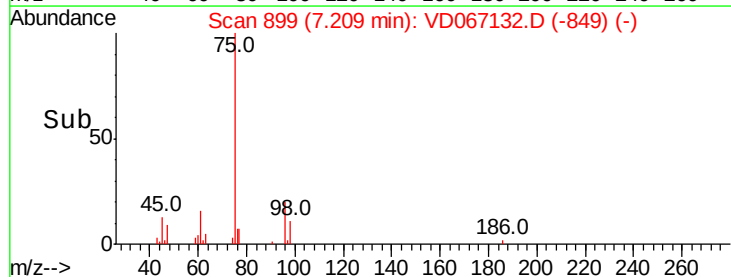
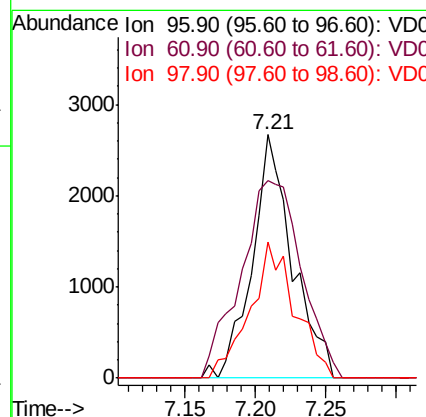
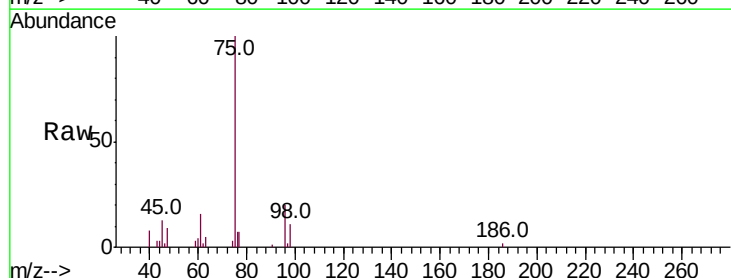
Instrument :
 MSVOA_D
 ClientSampled :
 SB-3

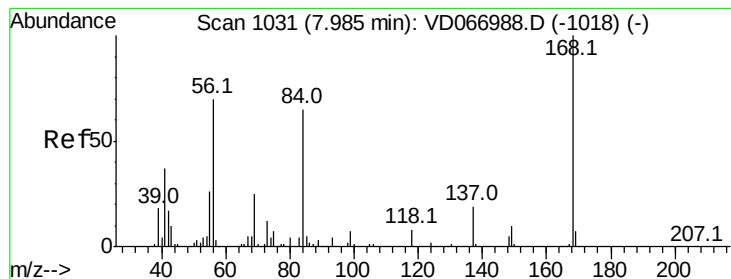
Tot Ion: 77 Resp: 2132
 Ion Ratio Lower Upper
 77 100
 97 13.5 11.4 34.2



#27
 cis-1,2-Dichloroethene
 Concen: 1.165 ug/l
 RT: 7.21 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VD067132.D
 Acq: 07 Oct 2020 03:41

Tgt Ion: 96 Resp: 5343
 Ion Ratio Lower Upper
 96 100
 61 122.0 0.0 269.2
 98 62.2 0.0 129.4





#31

Cyclohexane

Concen: 1.359 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

Instrument :

MSVOA_D

ClientSampled :

SB-3

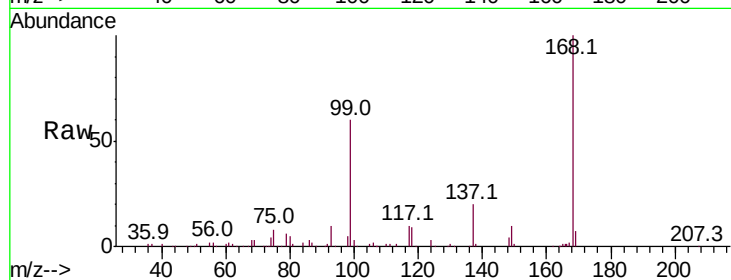
Tot Ion: 56 Resp: 7870

Ion Ratio Lower Upper

56 100

69 149.8 29.0 43.6#

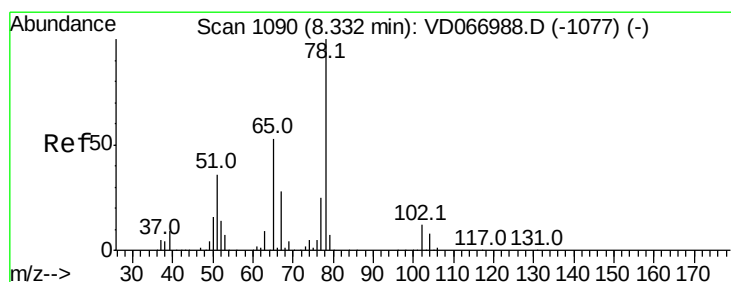
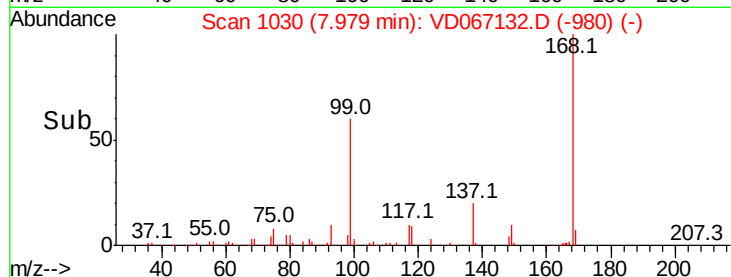
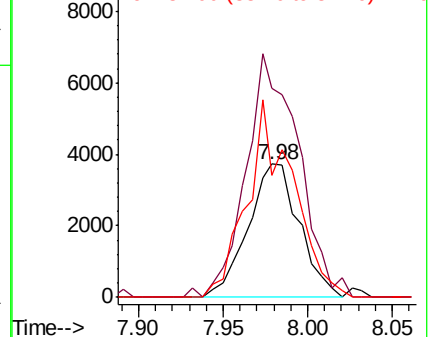
84 91.6 74.2 111.2



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



#33

1,2-Dichloroethane-d4

Concen: 49.767 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067132.D

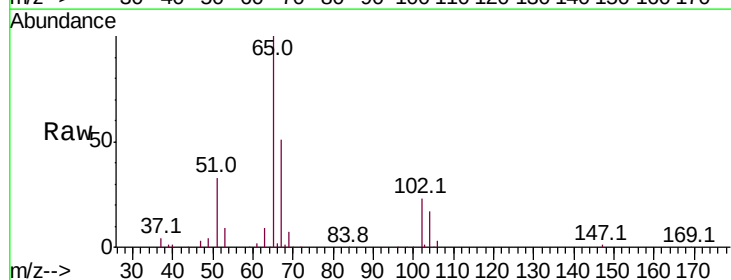
Acq: 07 Oct 2020 03:41

Tgt Ion: 65 Resp: 191902

Ion Ratio Lower Upper

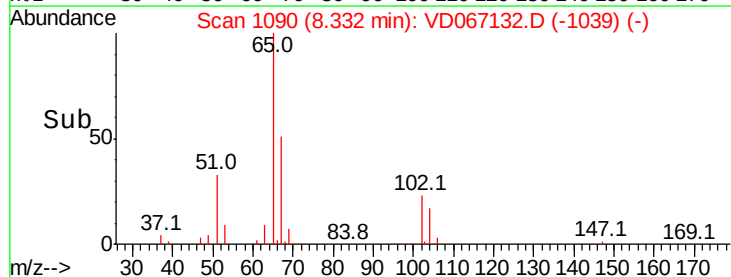
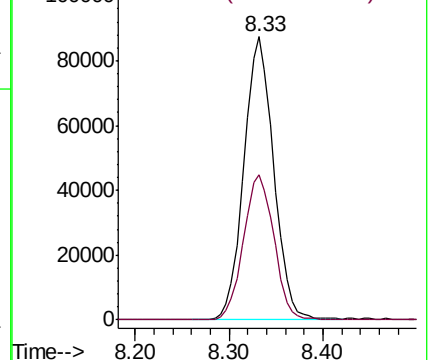
65 100

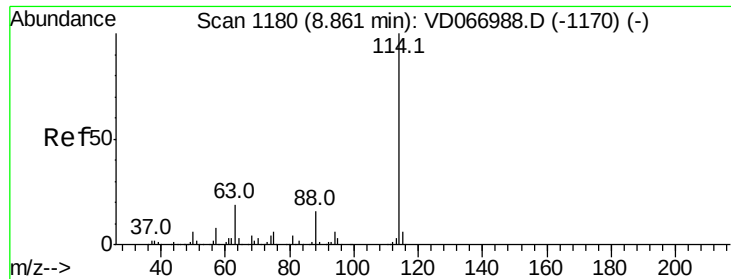
67 52.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

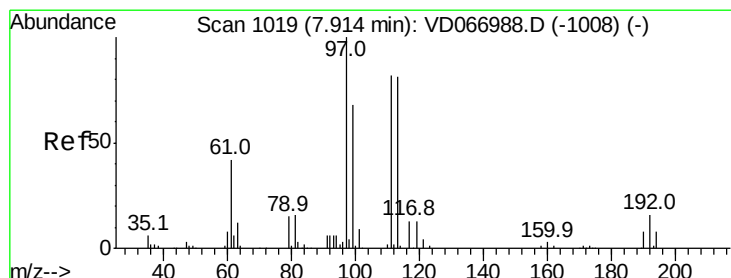
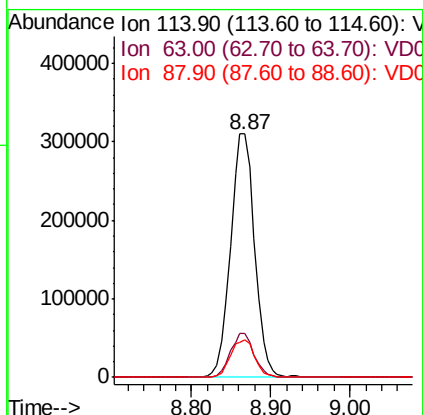
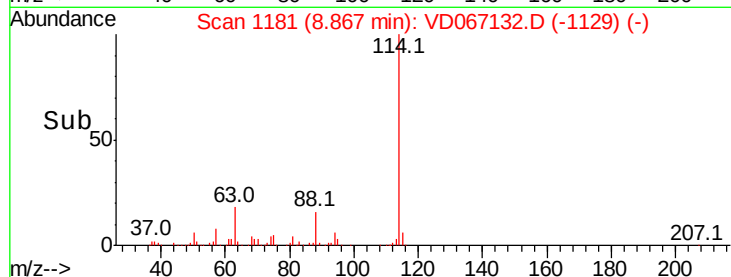
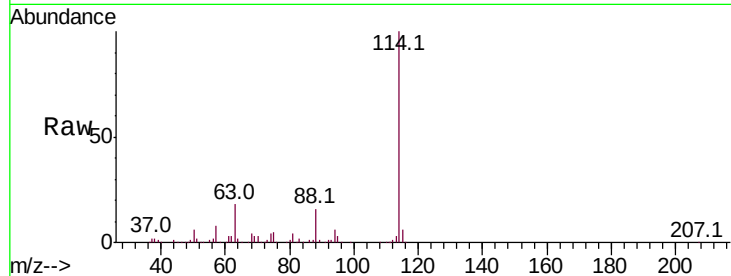




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD067132.D
Acq: 07 Oct 2020 03:41

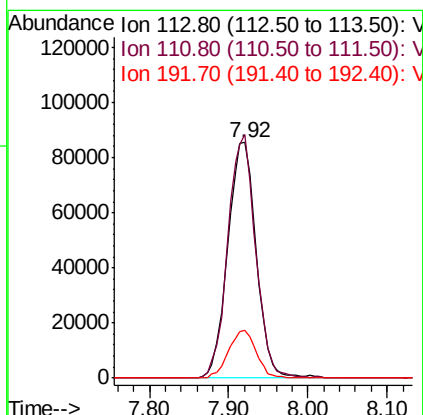
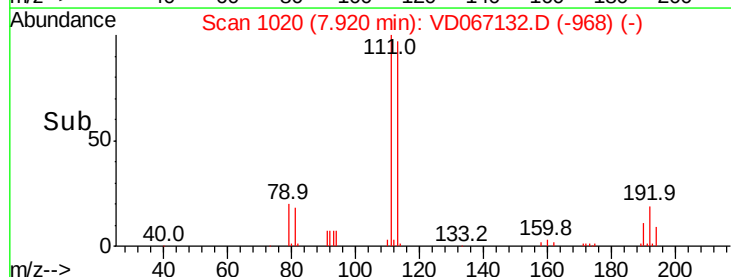
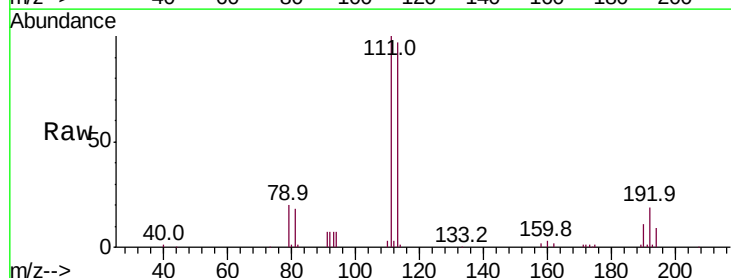
Instrument :
MSVOA_D
ClientSampleId :
SB-3

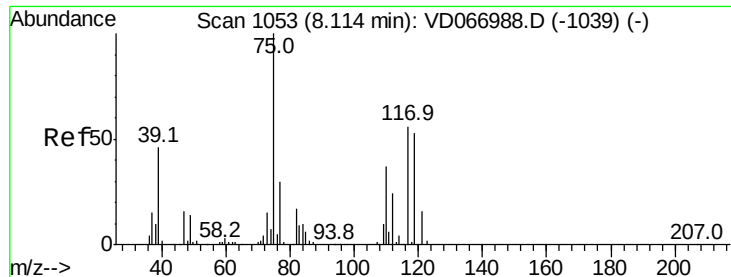
Tot Ion:114 Resp: 651770
Ion Ratio Lower Upper
114 100
63 18.2 0.0 38.4
88 15.6 0.0 31.2



#35
Dibromofluoromethane
Concen: 49.746 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD067132.D
Acq: 07 Oct 2020 03:41

Tgt Ion:113 Resp: 212266
Ion Ratio Lower Upper
113 100
111 100.6 83.0 124.4
192 19.7 15.5 23.3





#36

1,1-Dichloropropene

Concen: 4.948 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

Instrument :

MSVOA_D

ClientSampleId :

SB-3

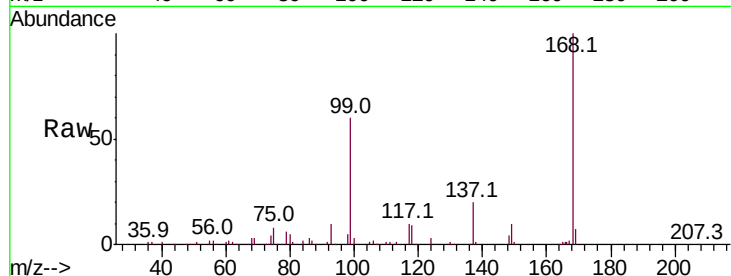
Tot Ion: 75 Resp: 30058

Ion Ratio Lower Upper

75 100

110 10.2 18.4 55.0#

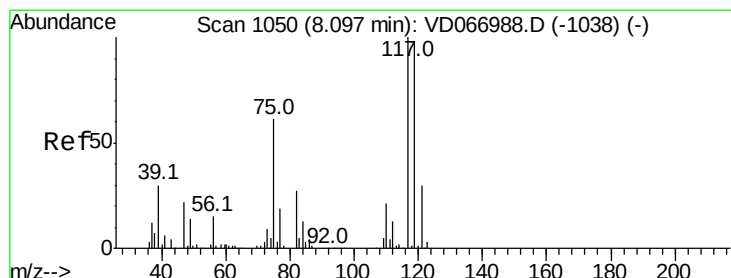
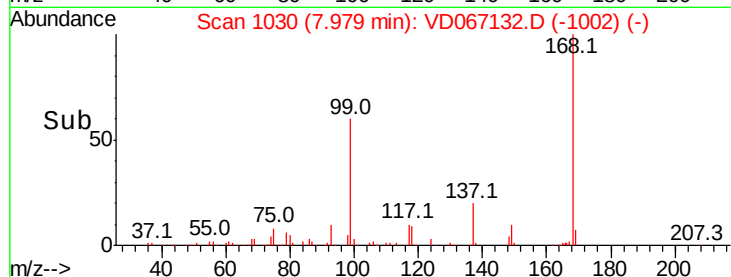
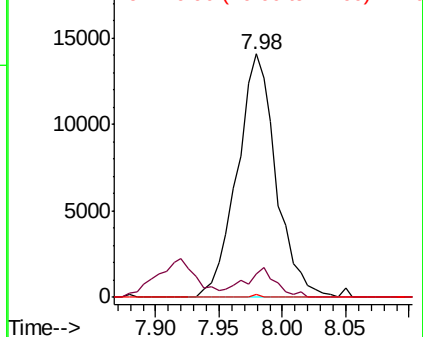
77 0.2 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#38

Carbon Tetrachloride

Concen: 6.275 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

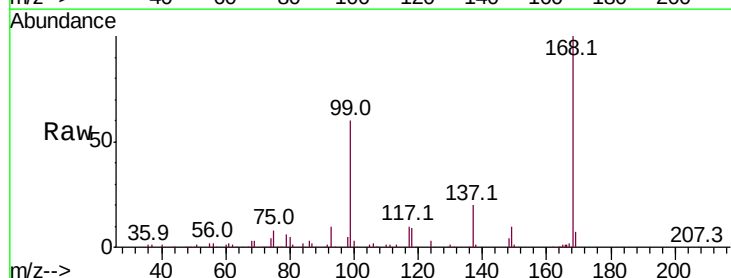
Tgt Ion: 117 Resp: 41250

Ion Ratio Lower Upper

117 100

119 4.1 78.7 118.1#

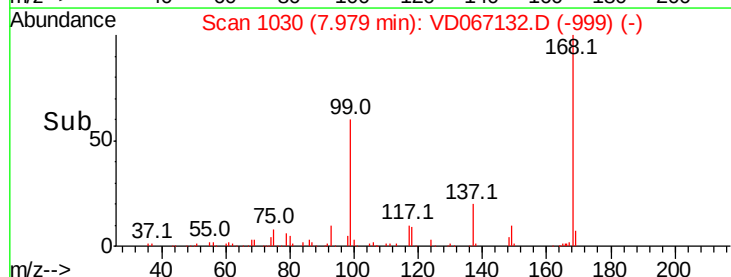
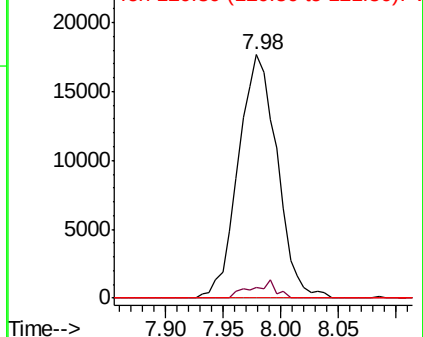
121 0.0 24.2 36.2#

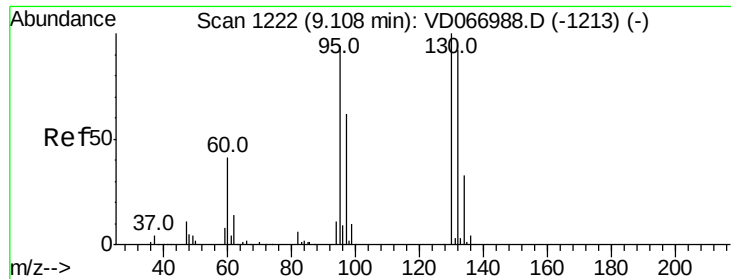


Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC





#44

Trichloroethene

Concen: 7.890 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. 0.00 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

Instrument :

MSVOA_D

ClientSampled :

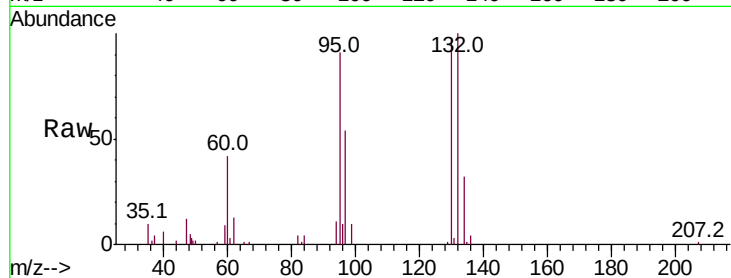
SB-3

Tot Ion:130 Resp: 39754

Ion Ratio Lower Upper

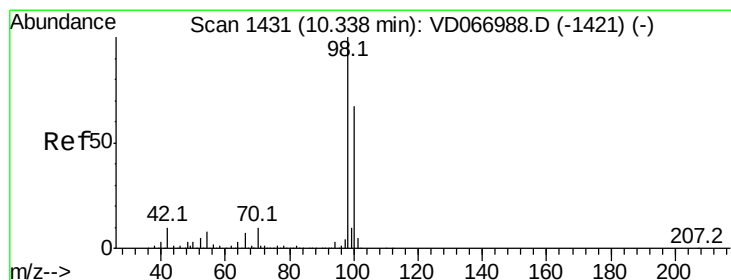
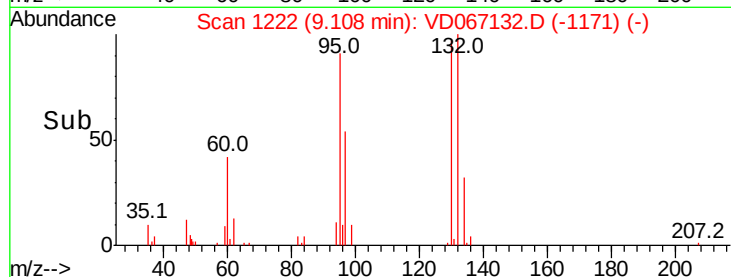
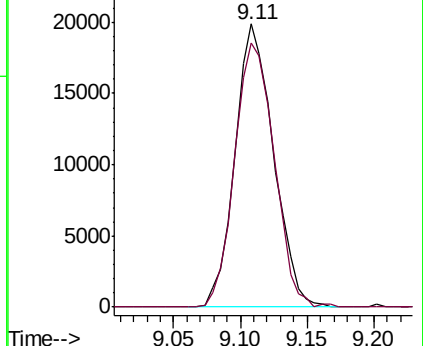
130 100

95 93.5 0.0 187.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: 49.139 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067132.D

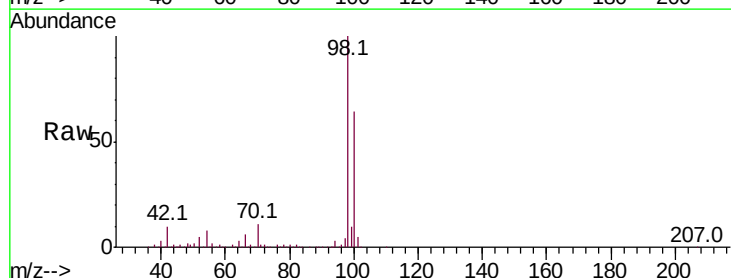
Acq: 07 Oct 2020 03:41

Tgt Ion: 98 Resp: 764037

Ion Ratio Lower Upper

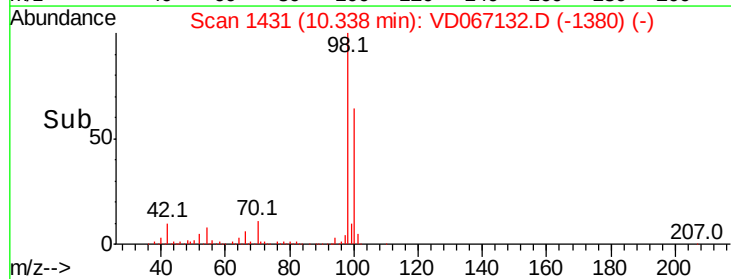
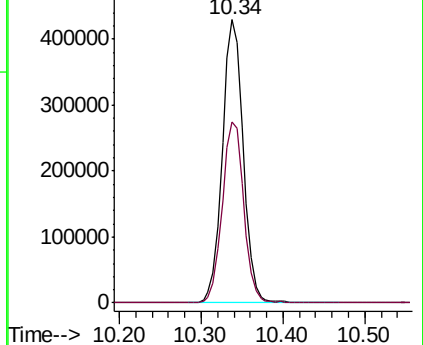
98 100

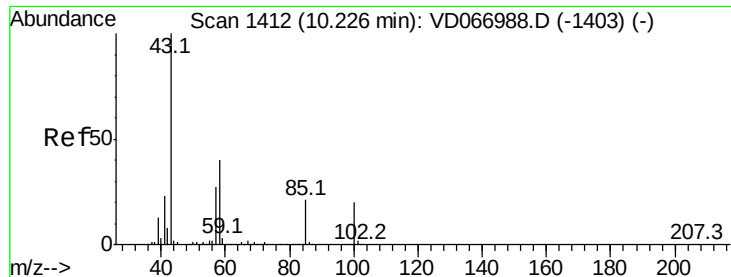
100 65.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VD

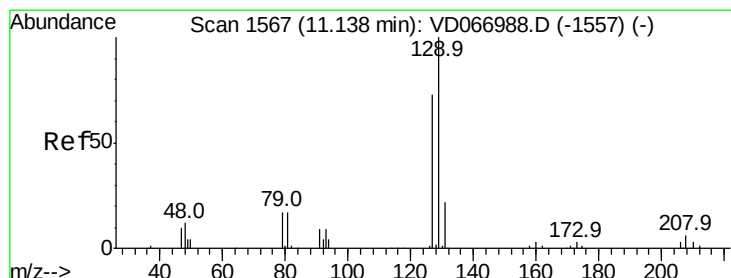
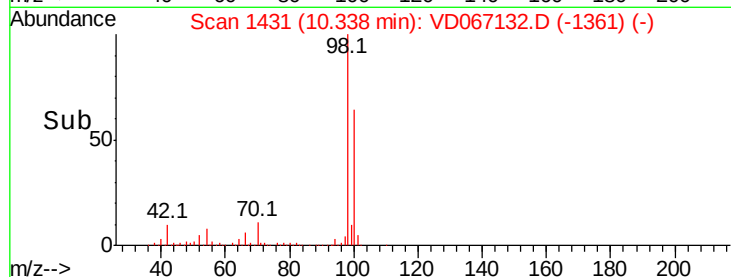
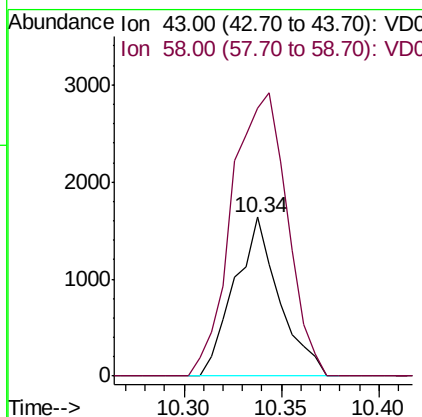
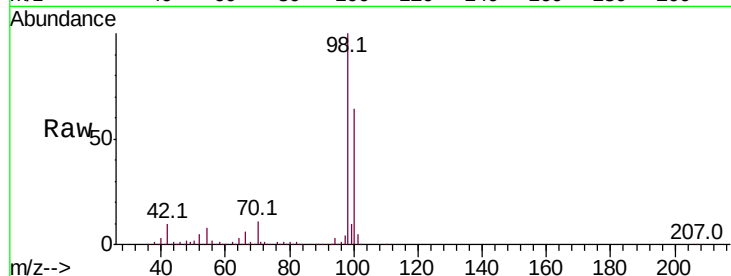




#51
 4-Methyl-2-Pentanone
 Concen: 1.356 ug/l
 RT: 10.34 min Scan# 1431
 Delta R.T. 0.11 min
 Lab File: VD067132.D
 Acq: 07 Oct 2020 03:41

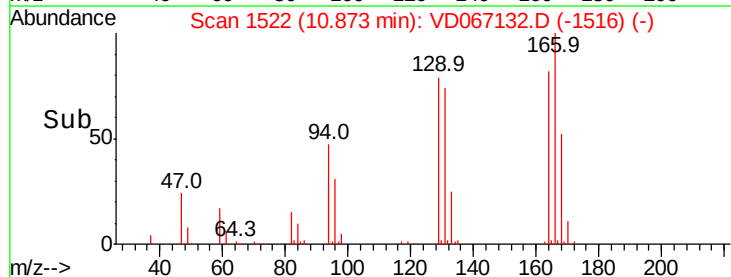
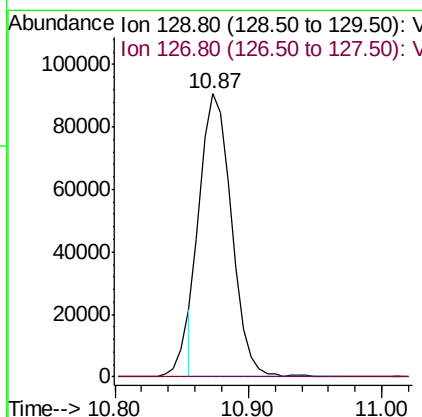
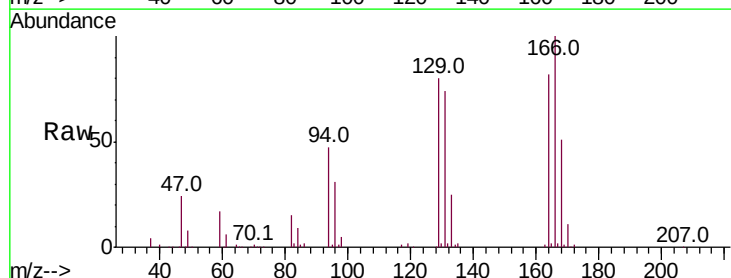
Instrument :
 MSVOA_D
 ClientSampled :
 SB-3

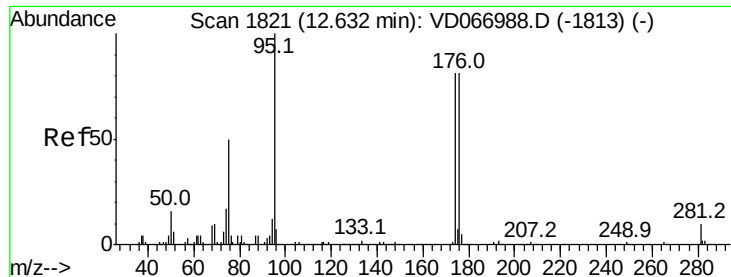
Tot Ion: 43 Resp: 2618
 Ion Ratio Lower Upper
 43 100
 58 218.6 33.8 50.8#



#60
 Dibromochloromethane
 Concen: 35.279 ug/l
 RT: 10.87 min Scan# 1522
 Delta R.T. -0.26 min
 Lab File: VD067132.D
 Acq: 07 Oct 2020 03:41

Tgt Ion: 129 Resp: 148973
 Ion Ratio Lower Upper
 129 100
 127 0.0 37.4 112.1#

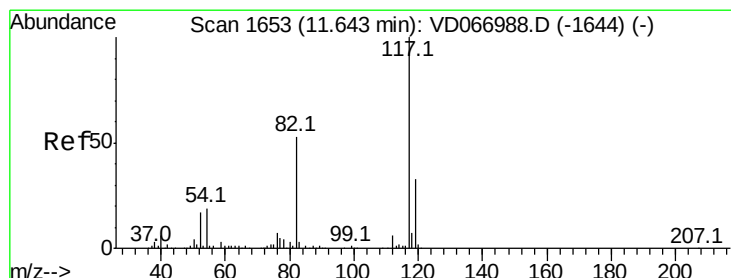
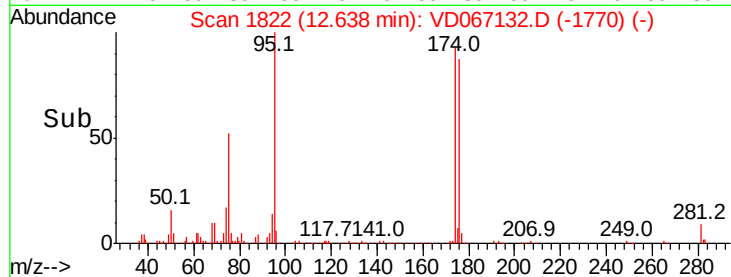
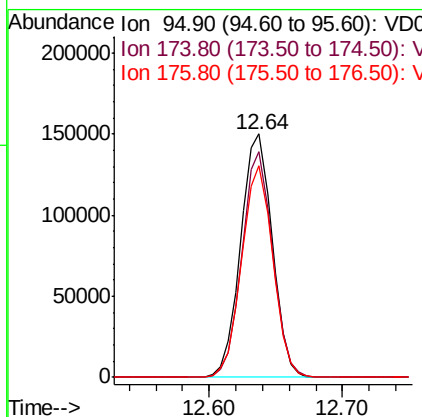
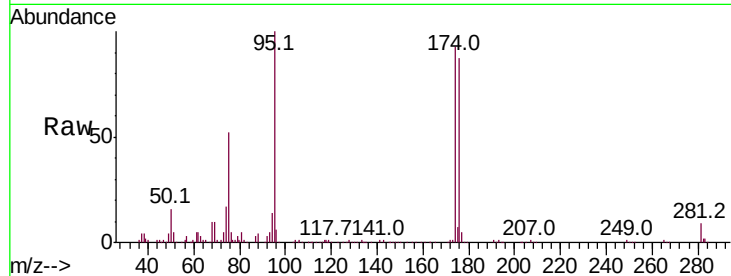




#62
4-Bromofluorobenzene
Concen: 46.466 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD067132.D
Acq: 07 Oct 2020 03:41

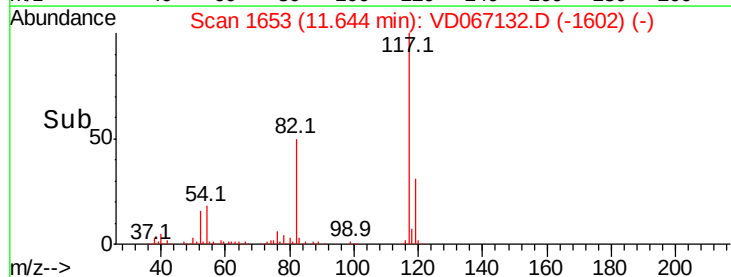
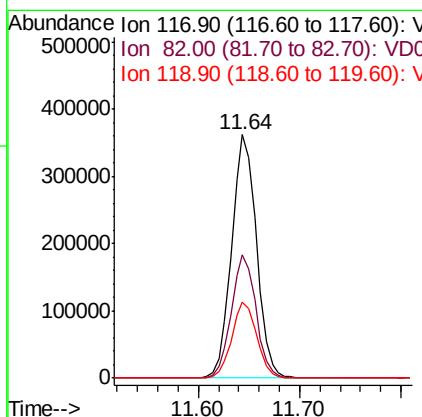
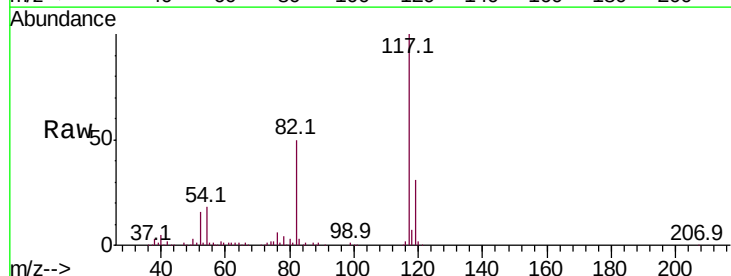
Instrument :
MSVOA_D
ClientSampleId :
SB-3

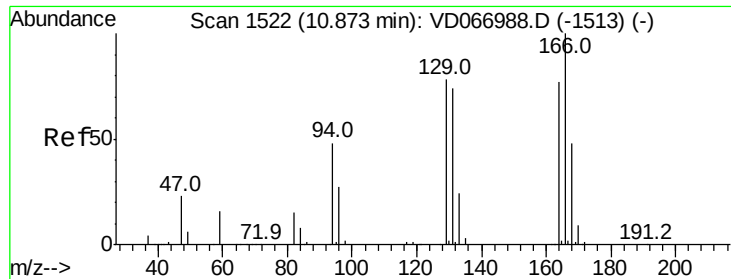
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.9	0.0	167.6
176	85.6	0.0	162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067132.D
Acq: 07 Oct 2020 03:41

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.4	42.6	63.8
119	31.2	26.3	39.5





#64

Tetrachloroethene

Concen: 37.982 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. 0.00 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

Instrument :

MSVOA_D

ClientSampleId :

SB-3

Tot Ion:164 Resp: 169851

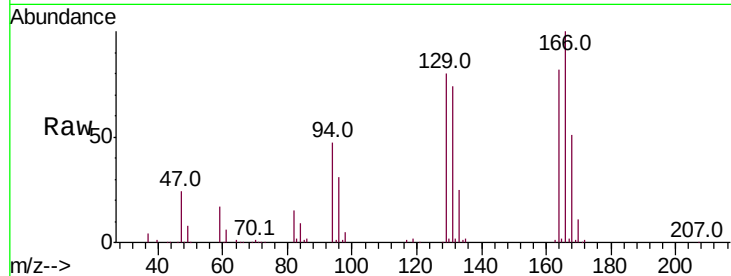
Ion Ratio Lower Upper

164 100

166 121.3 104.4 156.6

129 96.9 81.3 121.9

131 90.0 77.1 115.7

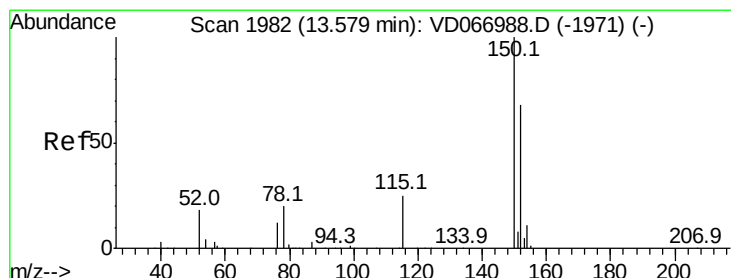
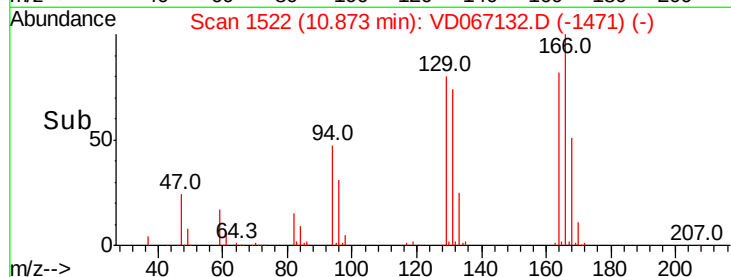
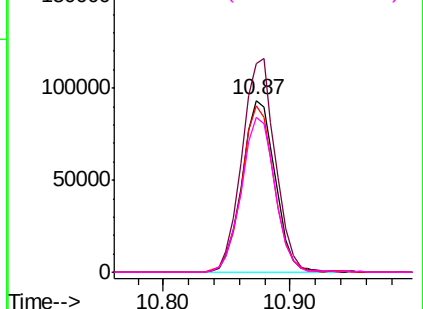


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VD067132.D

Acq: 07 Oct 2020 03:41

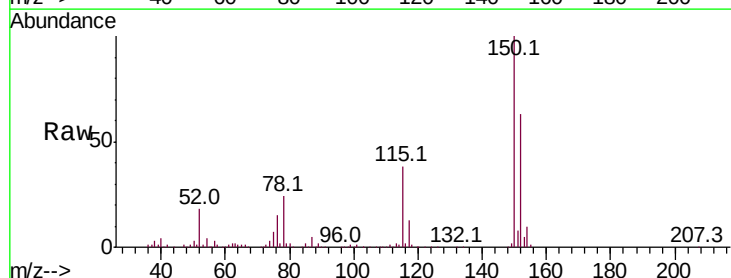
Tgt Ion:152 Resp: 274609

Ion Ratio Lower Upper

152 100

115 59.5 29.6 88.8

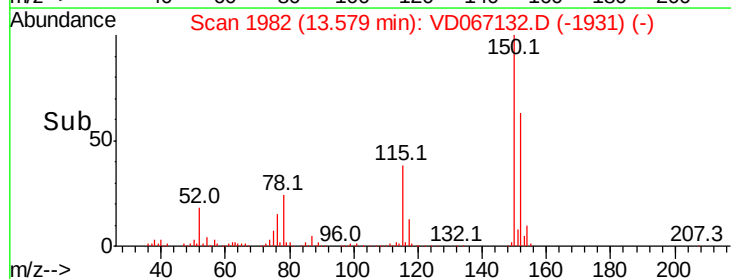
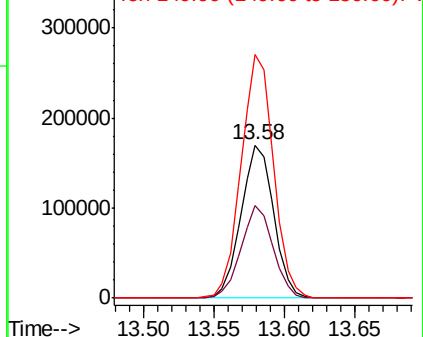
150 157.8 0.0 344.8

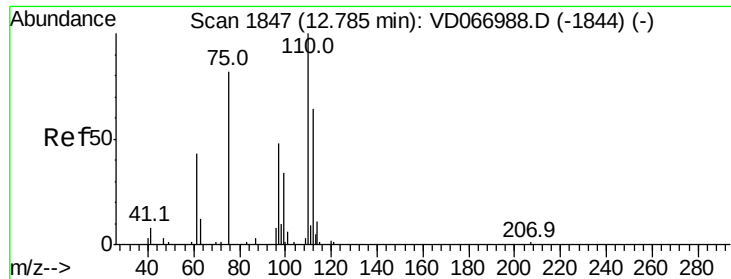


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 52.948 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

Instrument :

MSVOA_D

ClientSampleId :

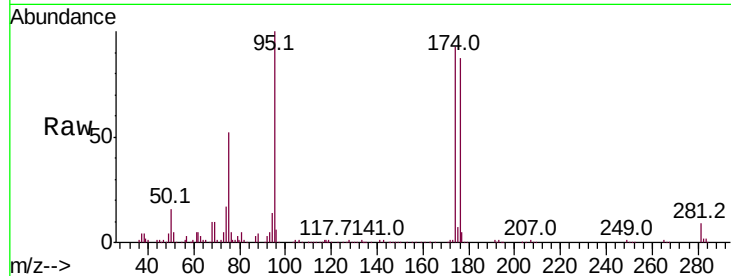
SB-3

Tot Ion: 75 Resp: 126648

Ion Ratio Lower Upper

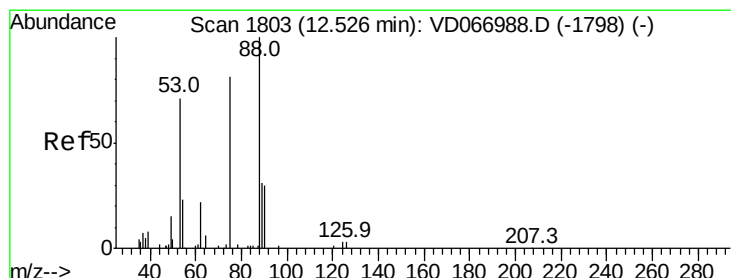
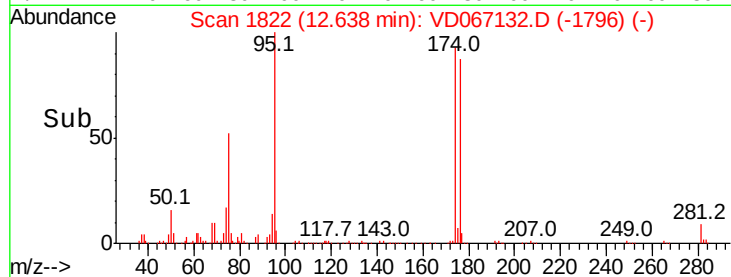
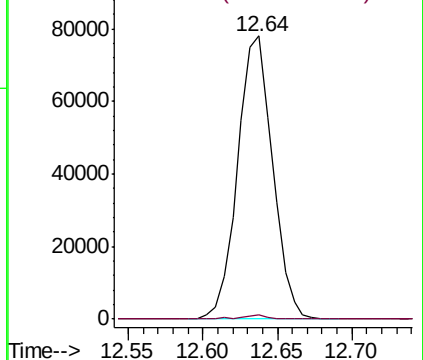
75 100

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: 132.006 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067132.D

Acq: 07 Oct 2020 03:41

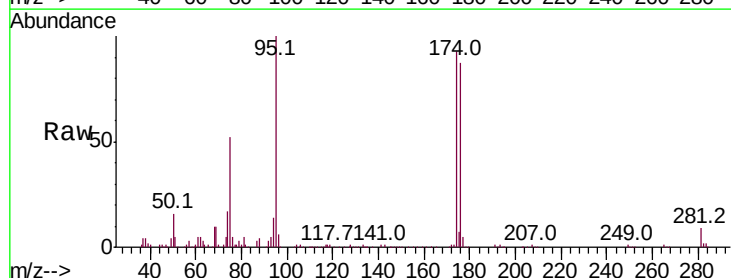
Tgt Ion: 75 Resp: 126648

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 38.9 58.3#



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

