

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102120\
 Data File : VD067343.D
 Acq On : 21 Oct 2020 13:09
 Operator : VA/SY
 Sample : L4467-05
 Misc : 8.23G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 357

Quant Time: Oct 22 00:20:07 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	7.99	168	251976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	427792	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	418588	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	199059	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	157144	62.25	ug/l	0.00
Spiked Amount			Recovery	=	124.50%	
35) Dibromofluoromethane	7.92	113	146942	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
50) Toluene-d8	10.34	98	511480	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
62) 4-Bromofluorobenzene	12.64	95	181480	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	

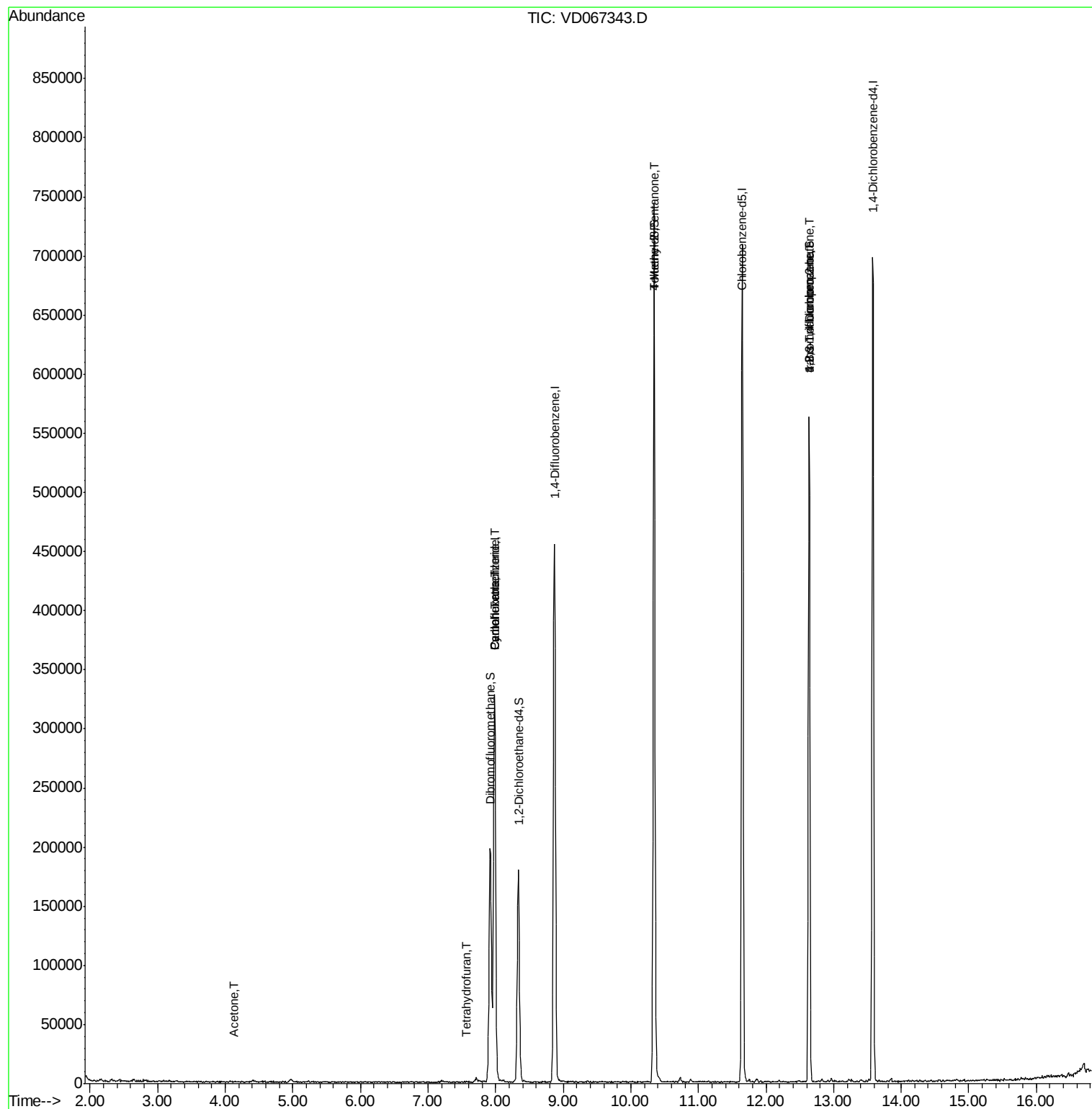
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	398	Below Cal	#	44
5) Bromomethane	2.79	94	138	Below Cal	#	54
11) Tert butyl alcohol	5.23	59	903	Below Cal	#	81
16) Acetone	4.13	43	432	1.222	ug/l #	42
20) Methylene Chloride	4.95	84	574	Below Cal	#	74
29) Tetrahydrofuran	7.57	42	457	2.040	ug/l #	76
31) Cyclohexane	7.98	56	5433	1.869	ug/l #	17
38) Carbon Tetrachloride	7.99	117	26133	5.639	ug/l #	18
51) 4-Methyl-2-Pentanone	10.34	43	2051	1.943	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	90437	65.550	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	90437	148.648	ug/l #	10

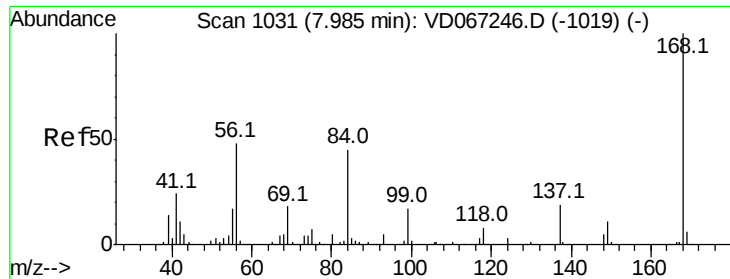
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102120\
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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: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampleId :

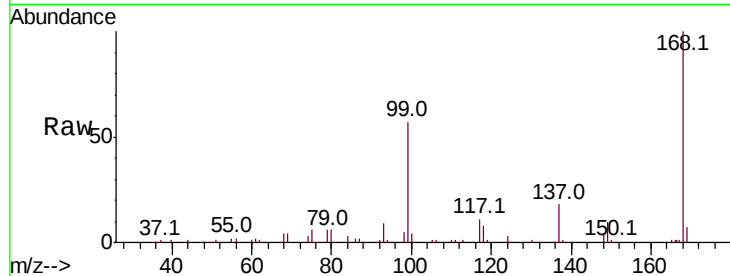
357

Tot Ion:168 Resp: 251976

Ion Ratio Lower Upper

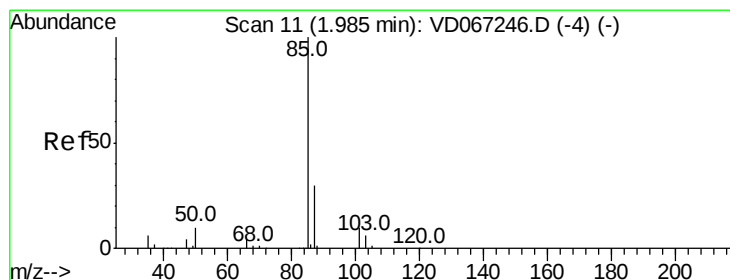
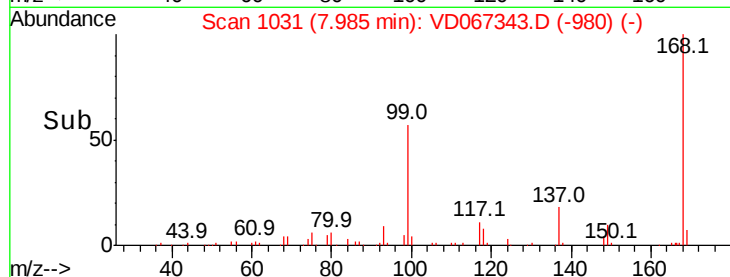
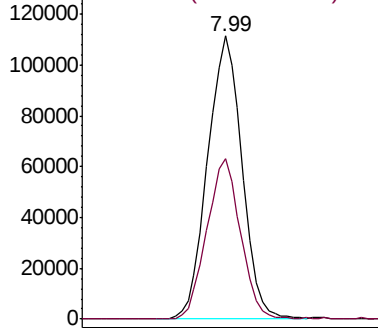
168 100

99 56.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067343.D

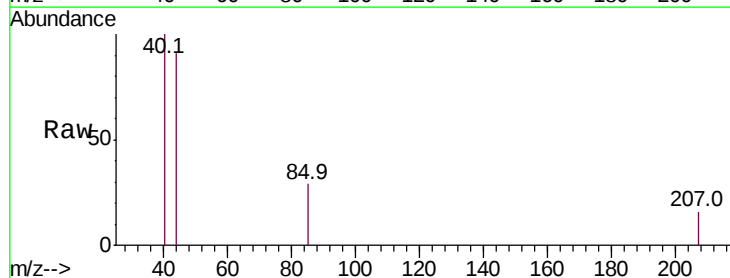
Acq: 21 Oct 2020 13:09

Tgt Ion: 85 Resp: 398

Ion Ratio Lower Upper

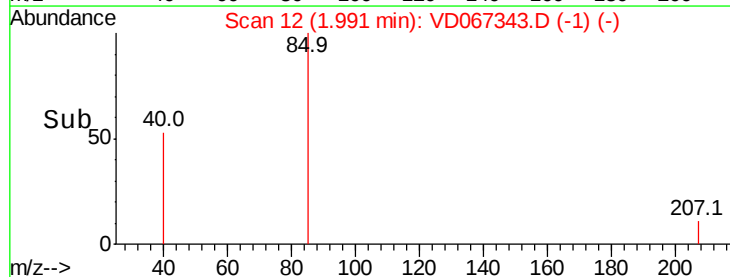
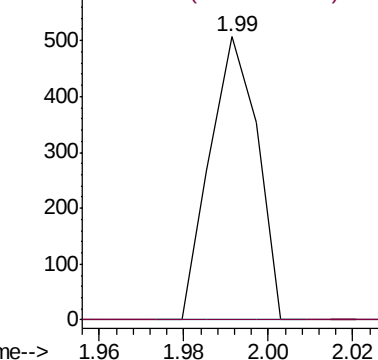
85 100

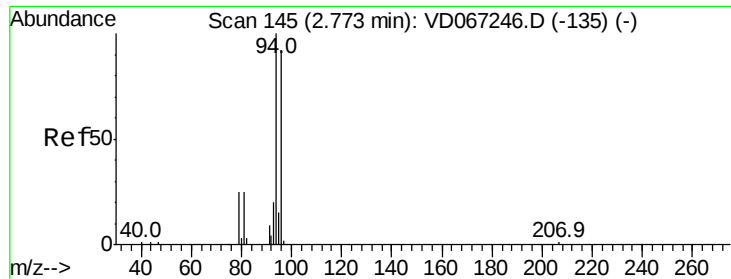
87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampleId :

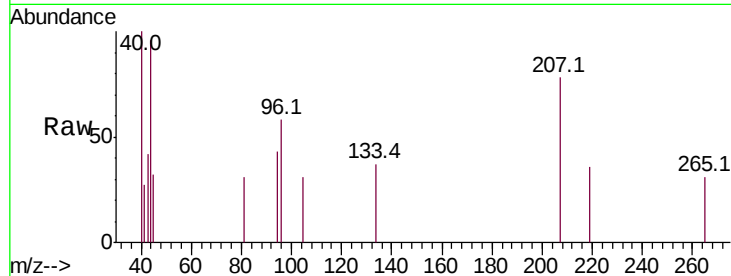
357

Tot Ion: 94 Resp: 138

Ion Ratio Lower Upper

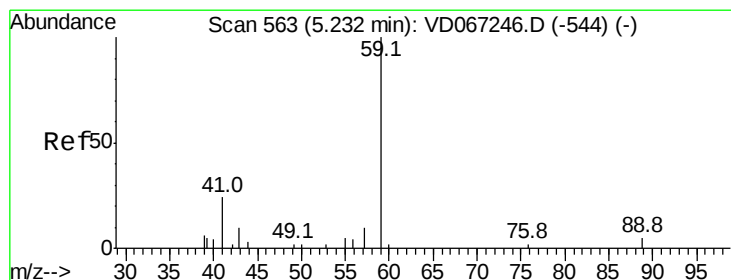
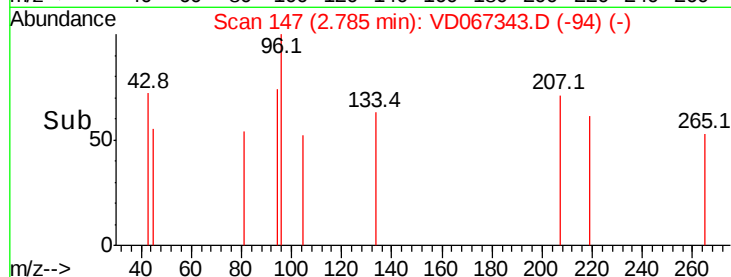
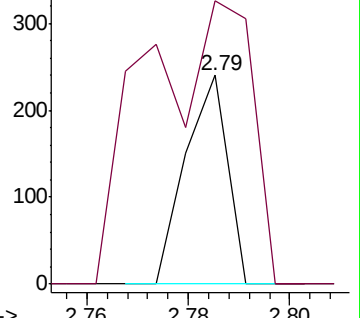
94 100

96 135.8 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 563

Delta R.T. 0.00 min

Lab File: VD067343.D

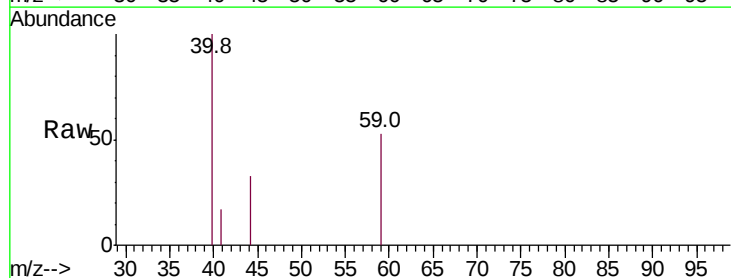
Acq: 21 Oct 2020 13:09

Tgt Ion: 59 Resp: 903

Ion Ratio Lower Upper

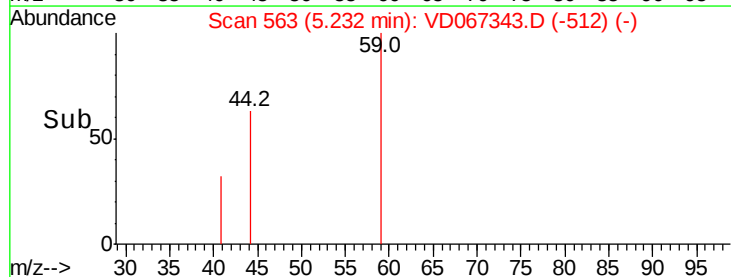
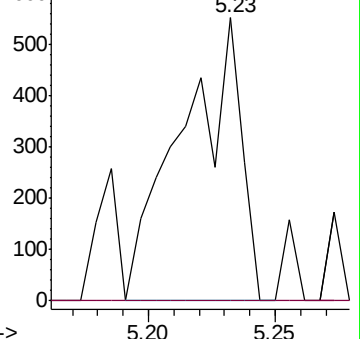
59 100

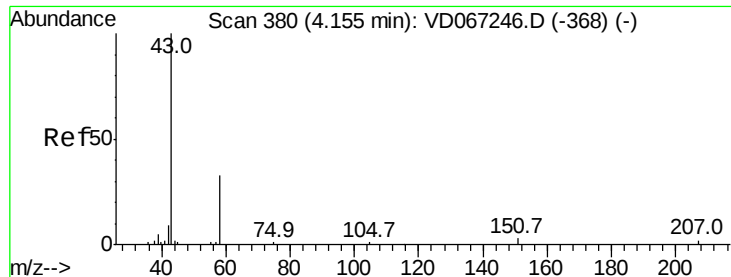
57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 1.222 ug/l

RT: 4.13 min Scan# 376

Delta R.T. -0.02 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampleId :

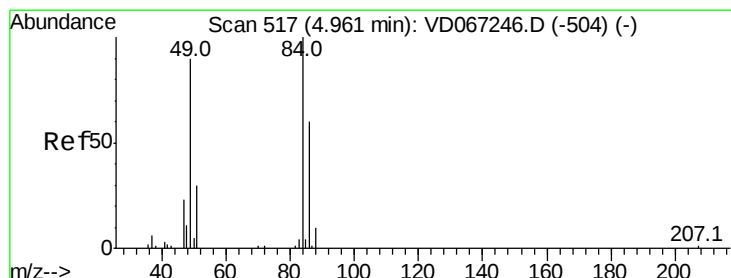
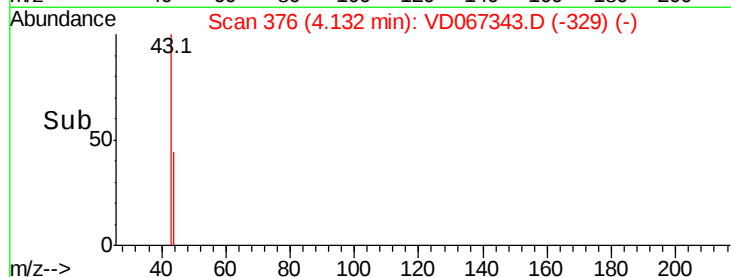
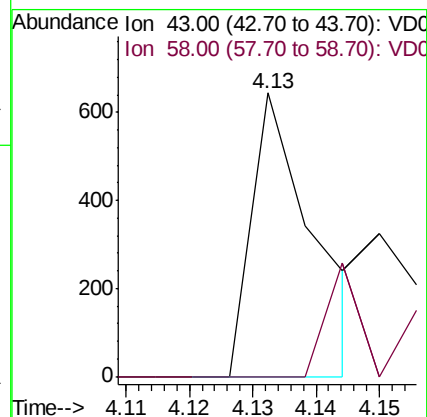
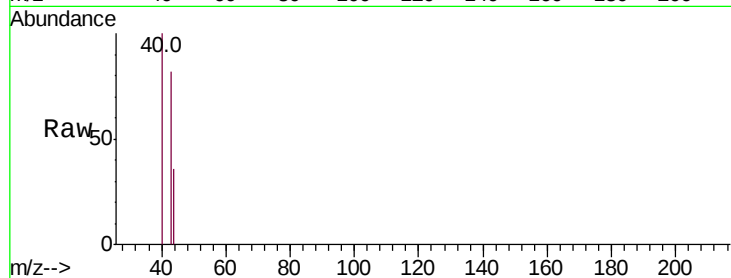
357

Tot Ion: 43 Resp: 432

Ion Ratio Lower Upper

43 100

58 0.0 26.1 39.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.95 min Scan# 515

Delta R.T. -0.01 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Tgt Ion: 84 Resp: 574

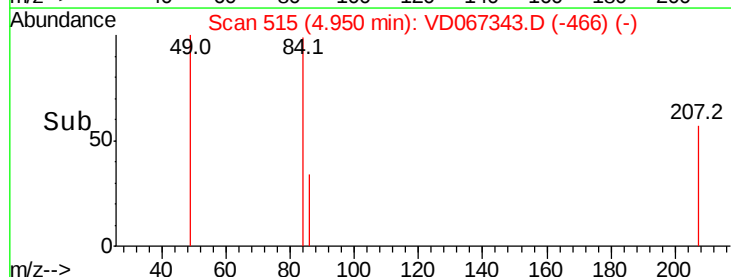
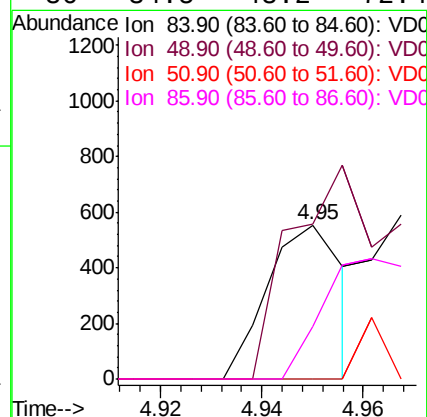
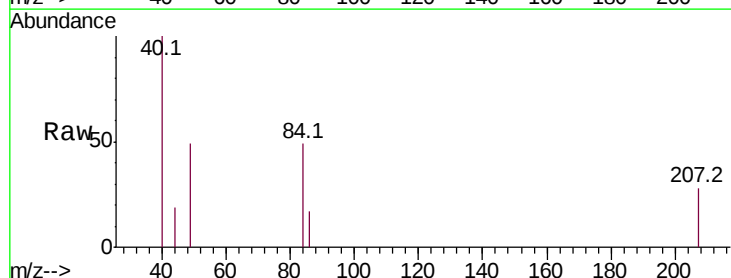
Ion Ratio Lower Upper

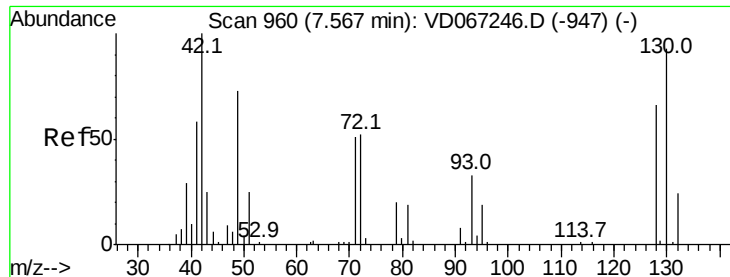
84 100

49 100.9 72.2 108.2

51 0.0 23.8 35.8#

86 34.5 48.2 72.4#





#29

Tetrahydrofuran

Concen: 2.040 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampleId :

357

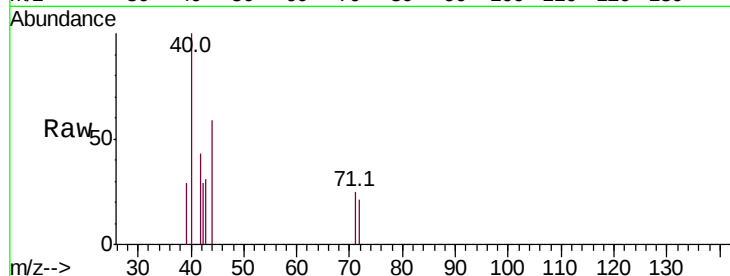
Tot Ion: 42 Resp: 457

Ion Ratio Lower Upper

42 100

72 26.9 43.2 64.8#

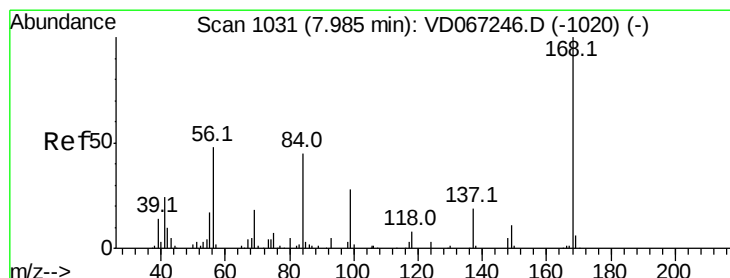
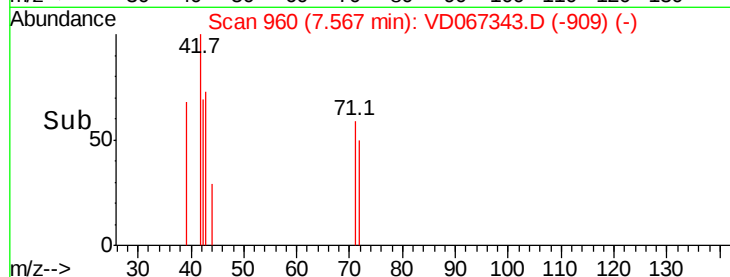
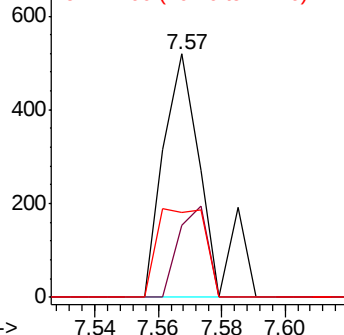
71 43.1 39.4 59.0



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: 1.869 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

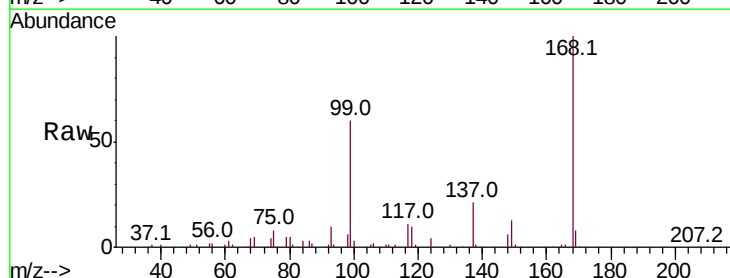
Tgt Ion: 56 Resp: 5433

Ion Ratio Lower Upper

56 100

69 193.6 29.8 44.6#

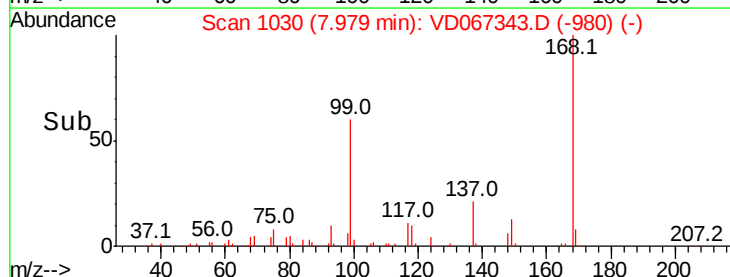
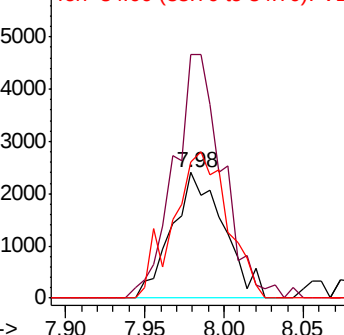
84 108.3 76.6 114.8

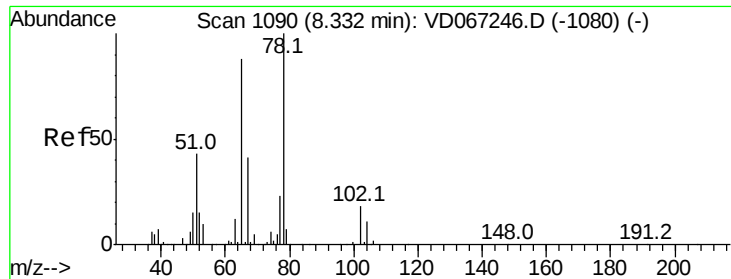


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 62.249 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampleId :

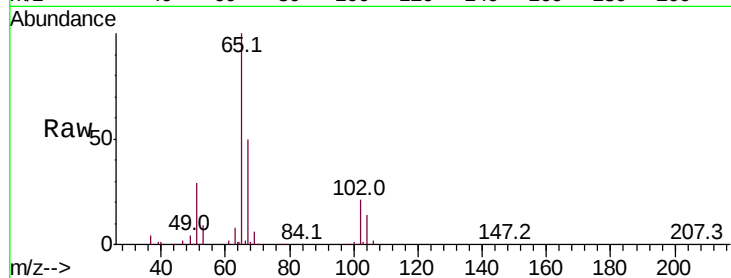
357

Tot Ion: 65 Resp: 157144

Ion Ratio Lower Upper

65 100

67 47.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

60000

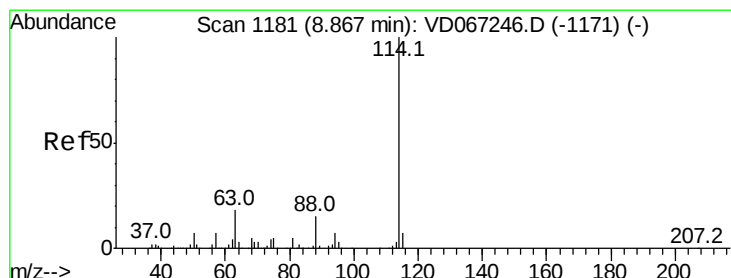
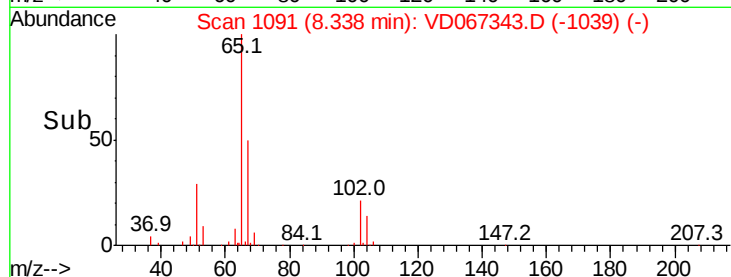
40000

20000

0

8.30 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

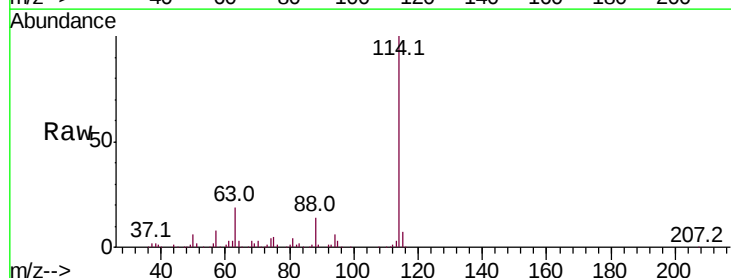
Tgt Ion: 114 Resp: 427792

Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.0

88 14.4 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

250000

200000

150000

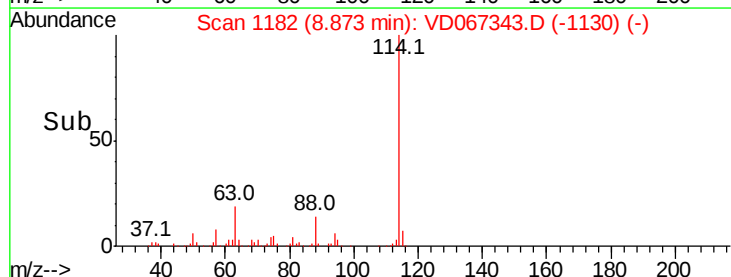
100000

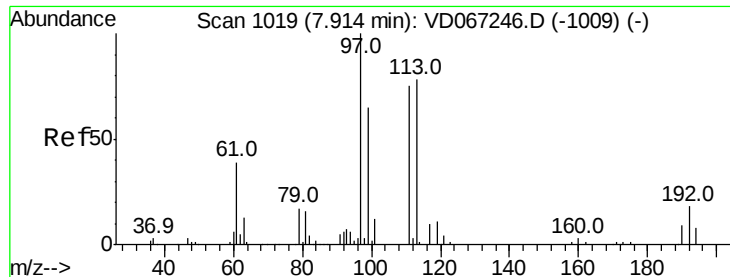
50000

0

8.80 8.90 9.00

Time-->

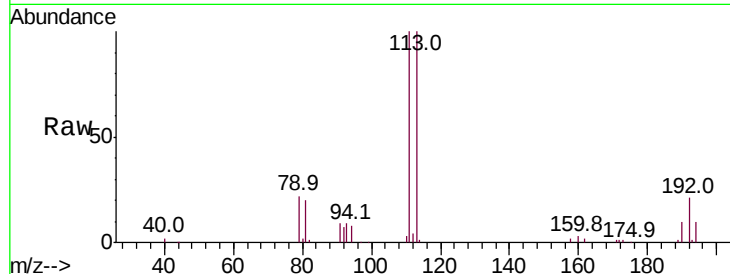




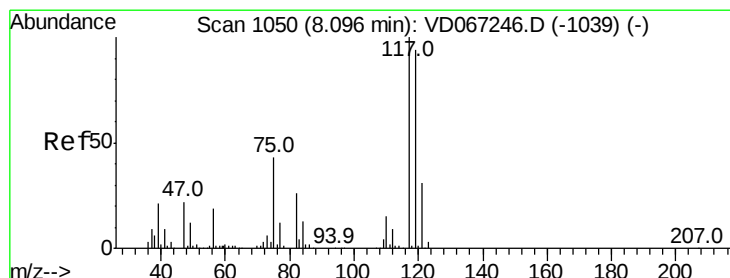
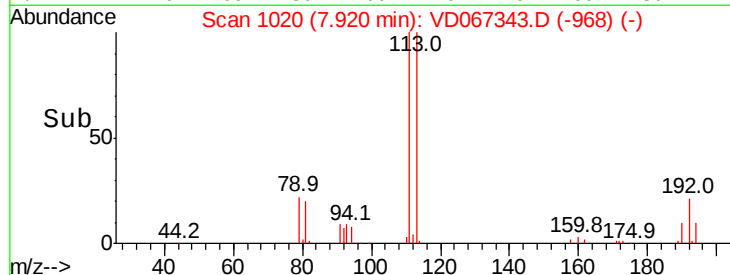
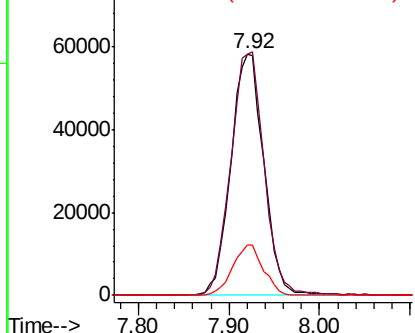
#35
Dibromofluoromethane
Concen: 51.614 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD067343.D
Acq: 21 Oct 2020 13:09

Instrument :
MSVOA_D
ClientSampleId :
357

Tot Ion:113 Resp: 146942
Ion Ratio Lower Upper
113 100
111 101.8 81.6 122.4
192 19.4 17.0 25.4

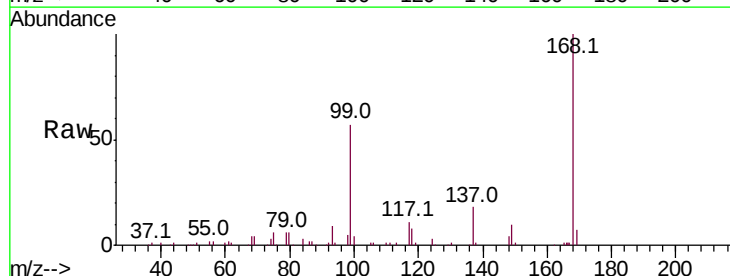


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

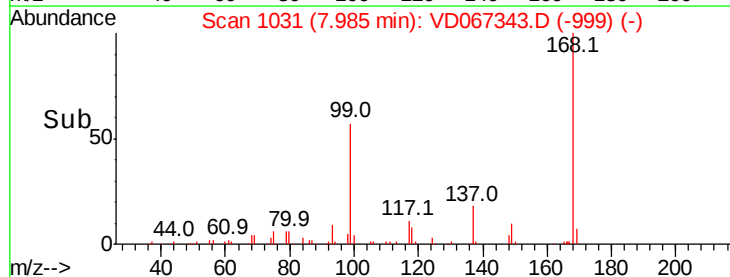
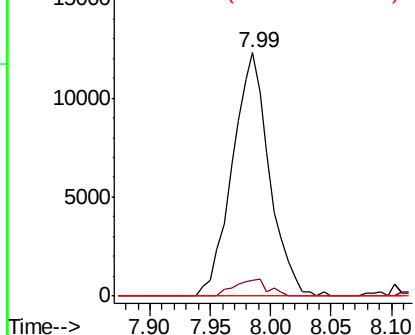


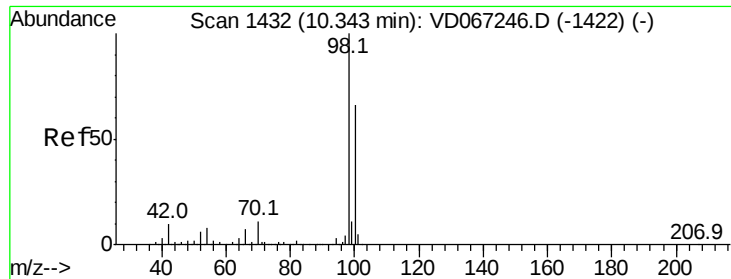
#38
Carbon Tetrachloride
Concen: 5.639 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD067343.D
Acq: 21 Oct 2020 13:09

Tgt Ion:117 Resp: 26133
Ion Ratio Lower Upper
117 100
119 6.4 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: 49.644 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampleId :

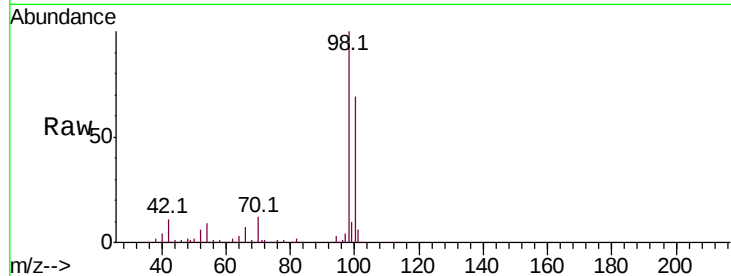
357

Tot Ion: 98 Resp: 511480

Ion Ratio Lower Upper

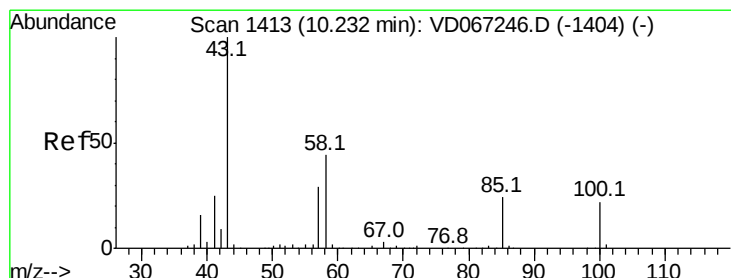
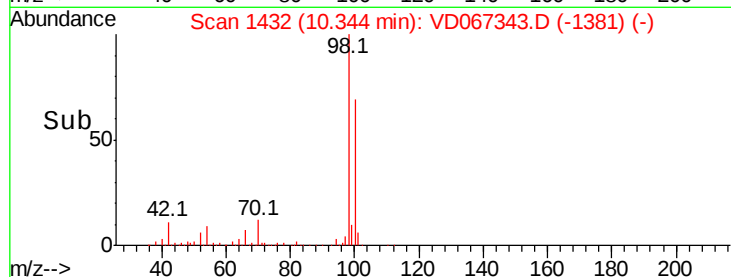
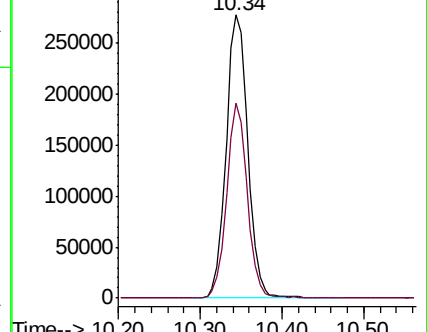
98 100

100 65.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.943 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067343.D

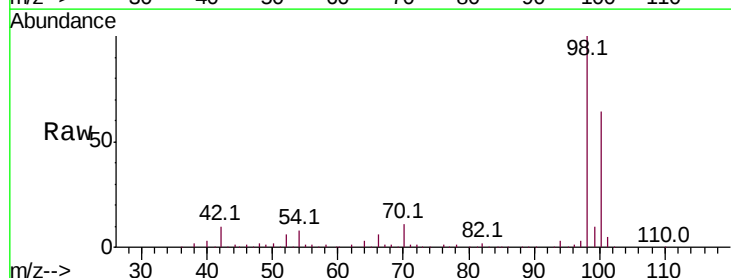
Acq: 21 Oct 2020 13:09

Tgt Ion: 43 Resp: 2051

Ion Ratio Lower Upper

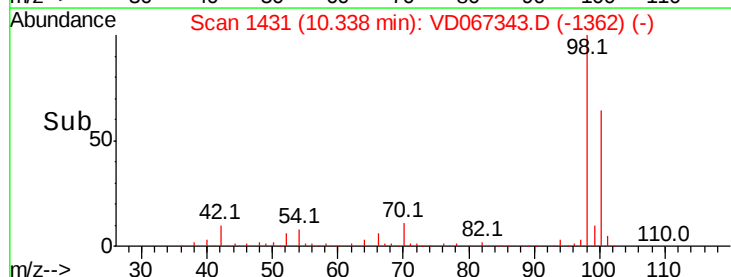
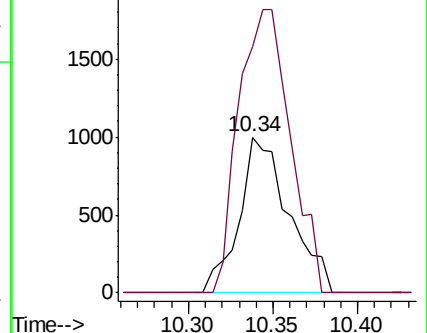
43 100

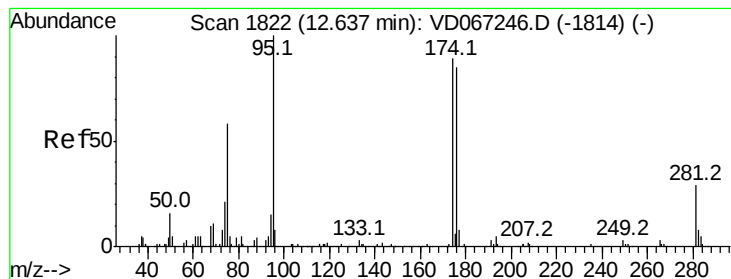
58 189.3 35.7 53.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 50.657 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampled :

357

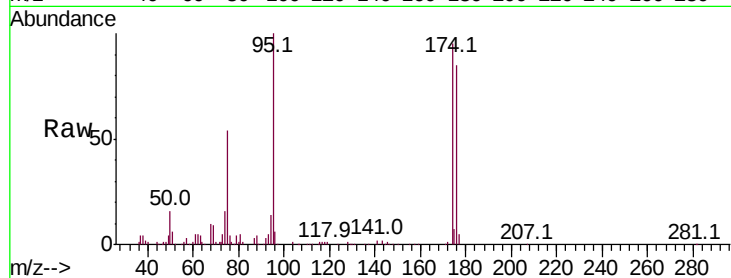
Tot Ion: 95 Resp: 181480

Ion Ratio Lower Upper

95 100

174 87.3 0.0 175.2

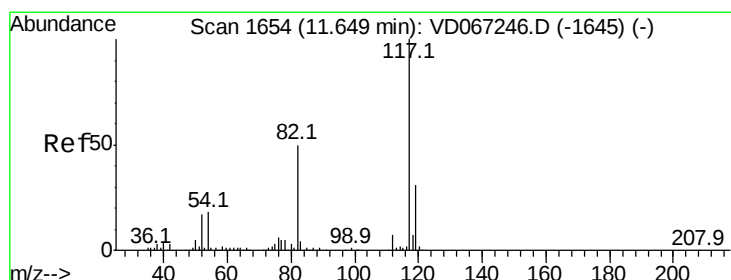
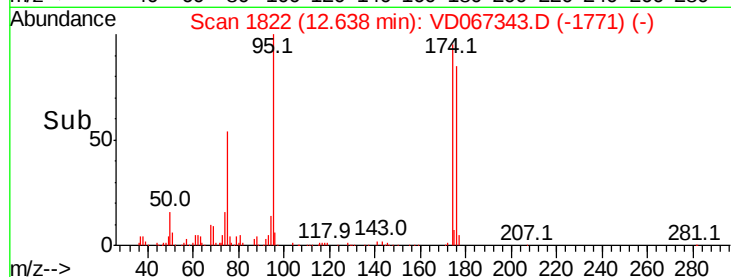
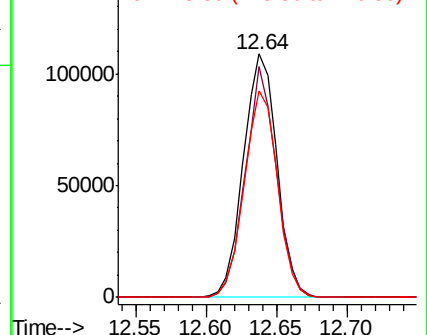
176 83.9 0.0 168.6



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: VD067343.D

Acq: 21 Oct 2020 13:09

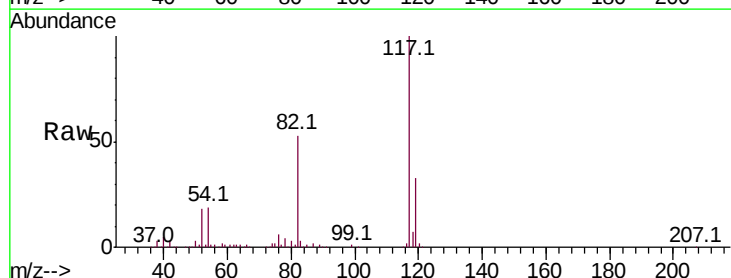
Tgt Ion: 117 Resp: 418588

Ion Ratio Lower Upper

117 100

82 53.1 39.9 59.9

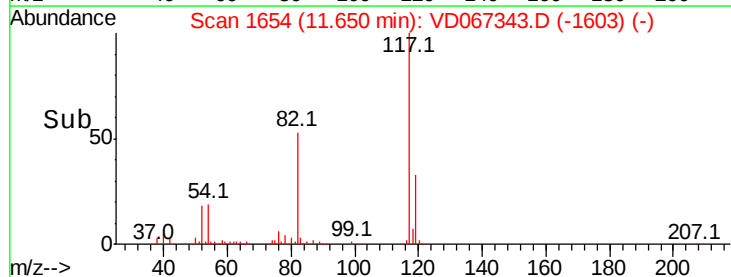
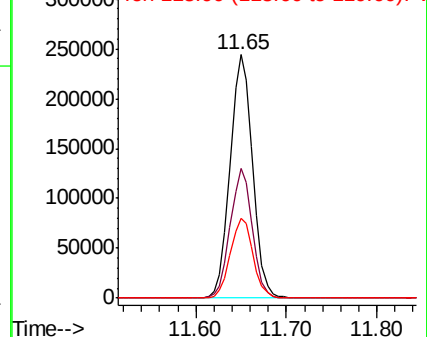
119 32.6 24.9 37.3

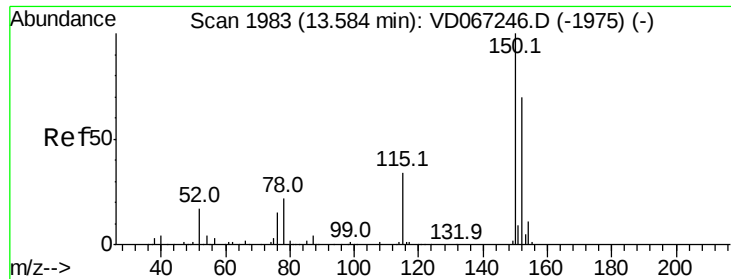


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampleId :

357

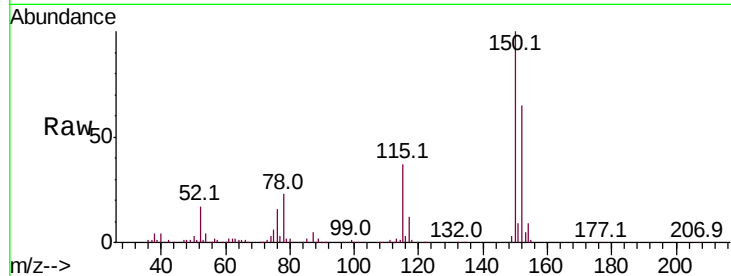
Tot Ion:152 Resp: 199059

Ion Ratio Lower Upper

152 100

115 59.8 29.3 87.9

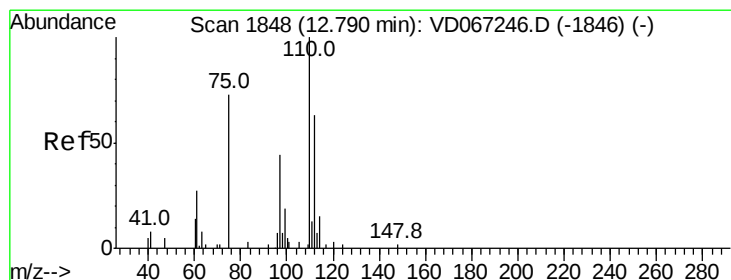
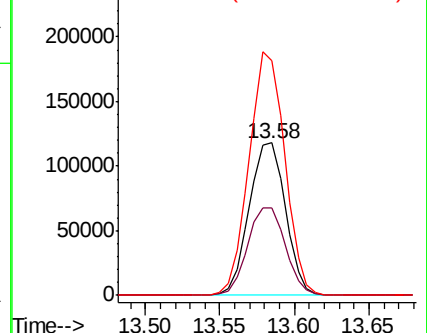
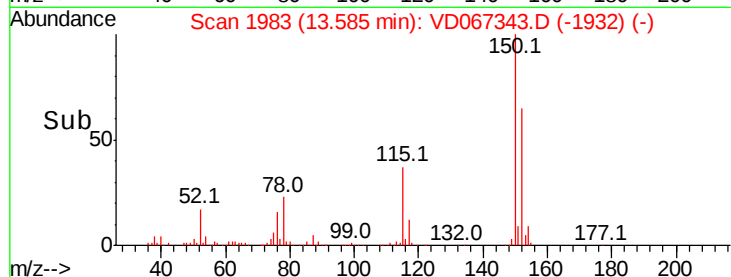
150 157.1 0.0 339.0



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: 65.550 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067343.D

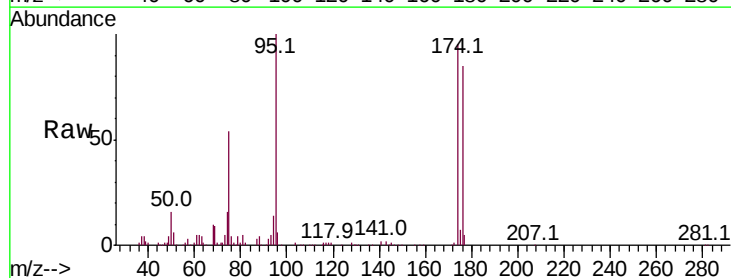
Acq: 21 Oct 2020 13:09

Tgt Ion: 75 Resp: 90437

Ion Ratio Lower Upper

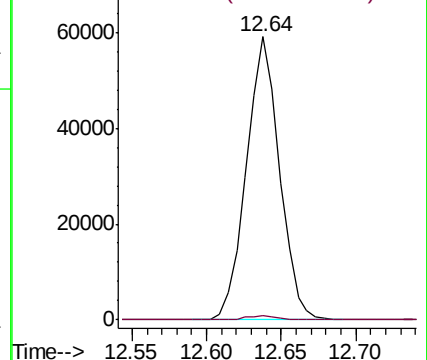
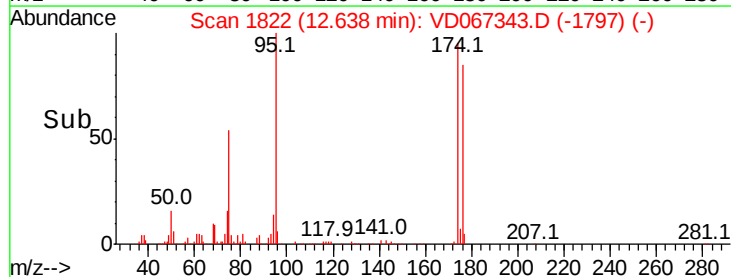
75 100

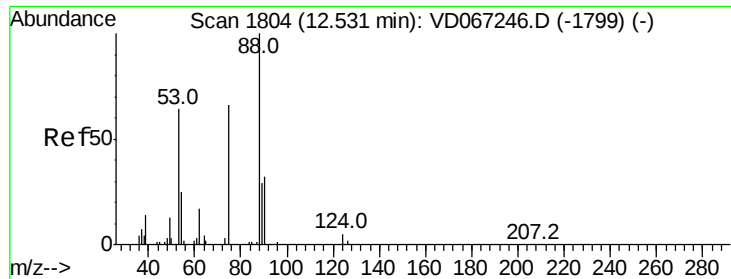
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 148.648 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067343.D

Acq: 21 Oct 2020 13:09

Instrument :

MSVOA_D

ClientSampleId :

357

Tot Ion: 75 Resp: 90437

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.2 39.9 59.9#

