

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022420\
 Data File : VD065298.D
 Acq On : 24 Feb 2020 16:53
 Operator : VA/SY
 Sample : L1635-11RE
 Misc : 6.11G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01RE

Quant Time: Feb 25 01:24:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	7405	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	10924	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	10638	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	4199	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	5257	78.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	157.82%	
35) Dibromofluoromethane	7.91	113	3651	54.81	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	109.62%	
50) Toluene-d8	10.34	98	12340	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	
62) 4-Bromofluorobenzene	12.64	95	3802	47.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.26%	

Target Compounds

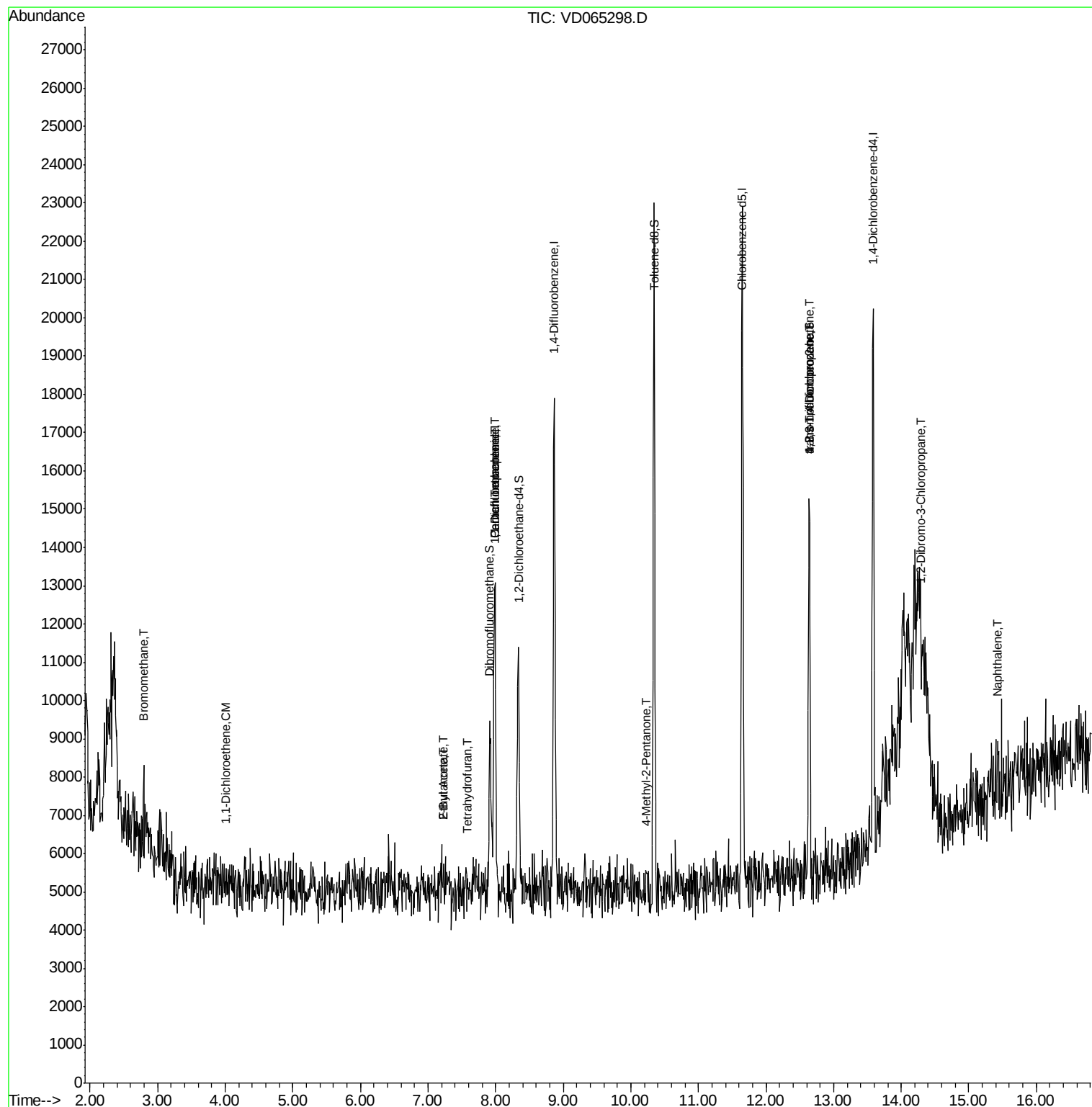
						Qvalue
5) Bromomethane	2.80	94	209	4.300	ug/l #	3
12) 1,1-Dichloroethene	4.01	96	197	2.869	ug/l #	1
25) 2-Butanone	7.23	43	84	4.077	ug/l #	49
29) Tetrahydrofuran	7.59	42	64	5.302	ug/l #	35
36) 1,1-Dichloropropene	7.98	75	527	4.958	ug/l #	41
37) Ethyl Acetate	7.23	43	84	1.890	ug/l #	69
38) Carbon Tetrachloride	7.98	117	735	6.793	ug/l #	12
51) 4-Methyl-2-Pentanone	10.23	43	55	1.340	ug/l #	36
76) 1,2,3-Trichloropropane	12.63	75	1987	55.617	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	1987	120.087	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.30	75	110	14.227	ug/l #	1
95) Naphthalene	15.42	128	124	1.018	ug/l #	69

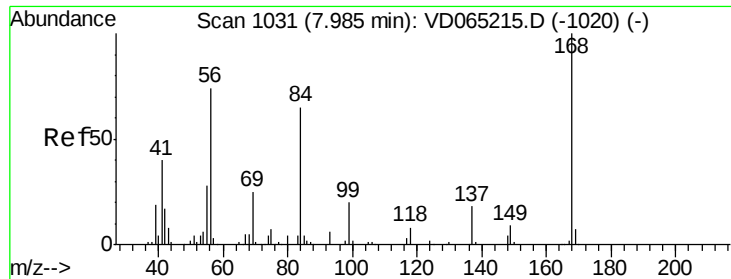
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD022420\
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Quant Time: Feb 25 01:24:11 2020
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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: VD065298.D

Acq: 24 Feb 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

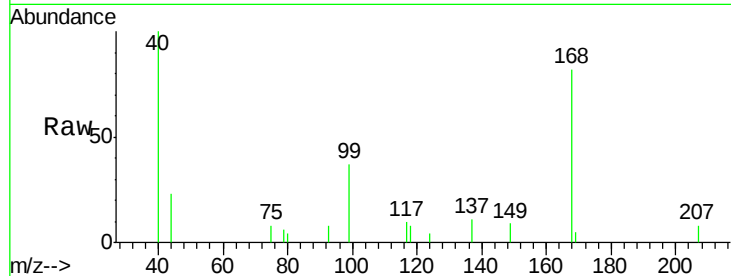
LIED-TS001-01RE

Tot Ion:168 Resp: 7405

Ion Ratio Lower Upper

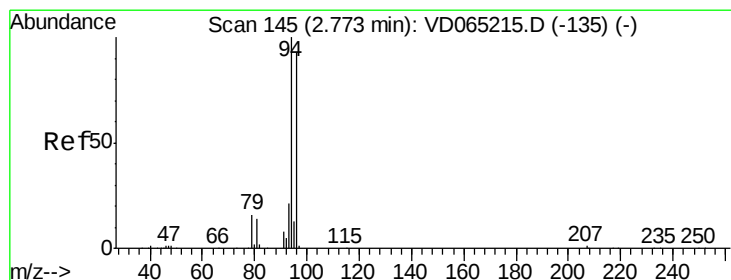
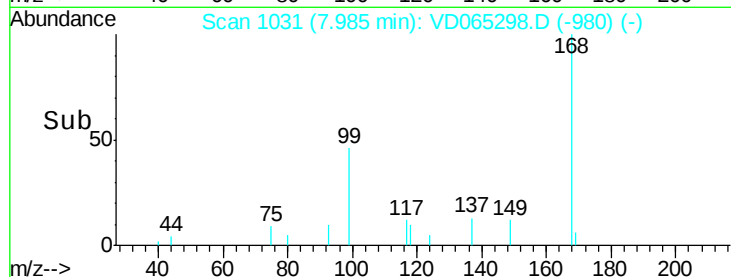
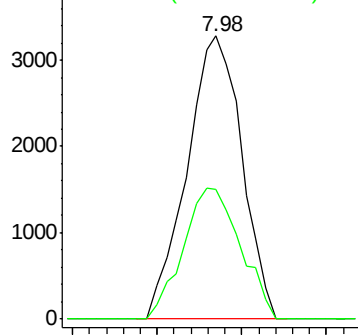
168 100

99 45.8 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: 4.300 ug/l

RT: 2.80 min Scan# 150

Delta R.T. 0.03 min

Lab File: VD065298.D

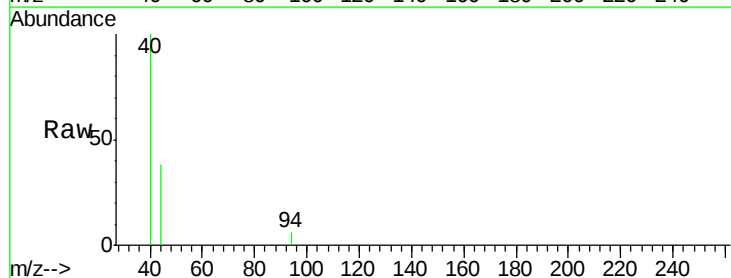
Acq: 24 Feb 2020 16:53

Tgt Ion: 94 Resp: 209

Ion Ratio Lower Upper

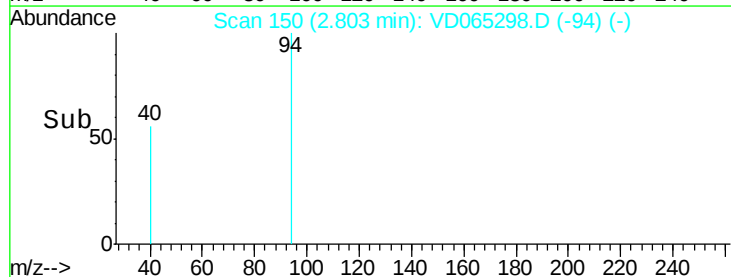
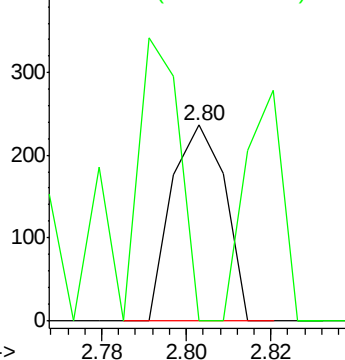
94 100

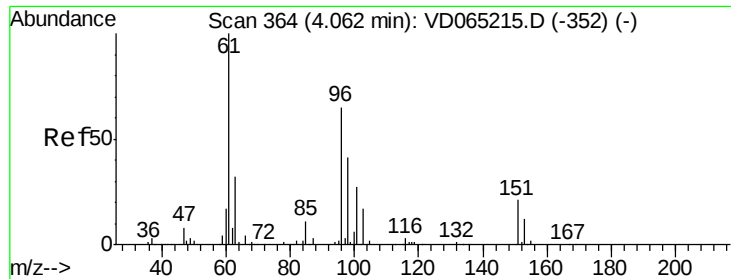
96 0.0 74.2 111.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#12

1,1-Dichloroethene

Concen: 2.869 ug/l

RT: 4.01 min Scan# 355

Delta R.T. -0.05 min

Lab File: VD065298.D

Acq: 24 Feb 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01RE

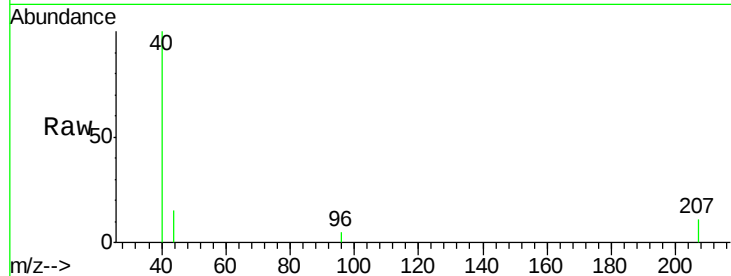
Tot Ion: 96 Resp: 197

Ion Ratio Lower Upper

96 100

61 0.0 123.3 184.9#

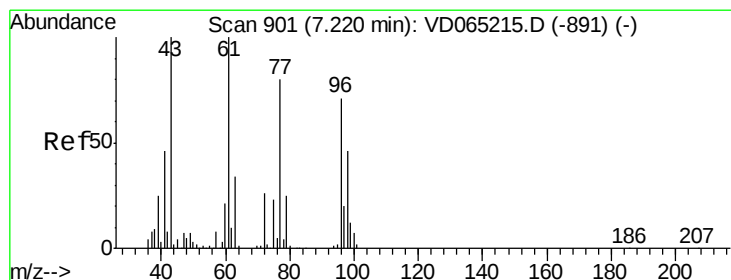
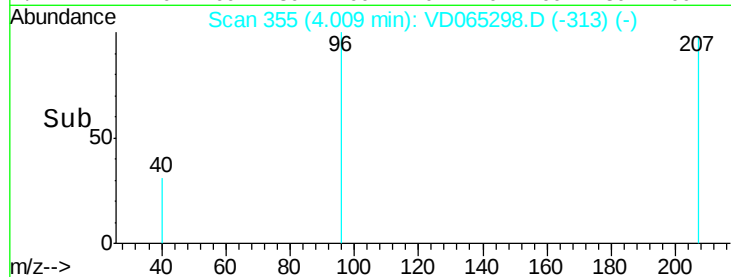
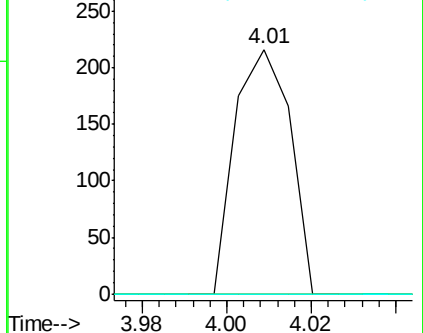
98 0.0 51.0 76.4#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#25

2-Butanone

Concen: 4.077 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD065298.D

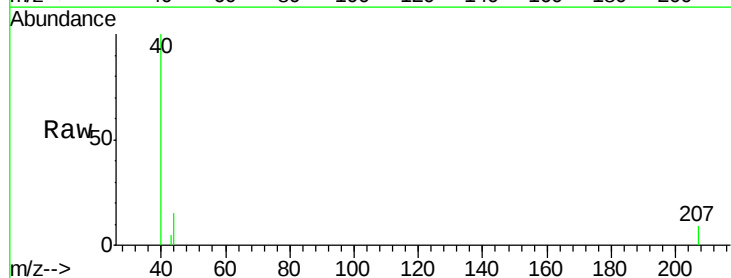
Acq: 24 Feb 2020 16:53

Tgt Ion: 43 Resp: 84

Ion Ratio Lower Upper

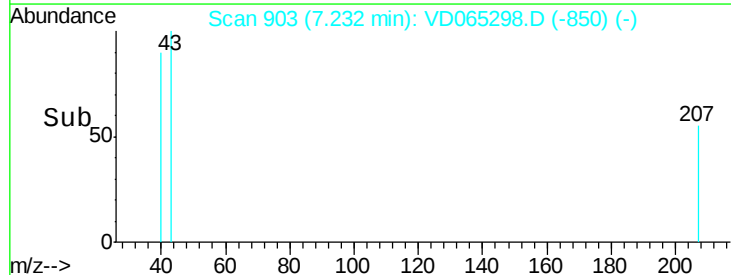
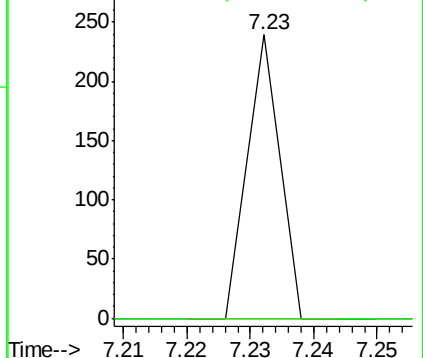
43 100

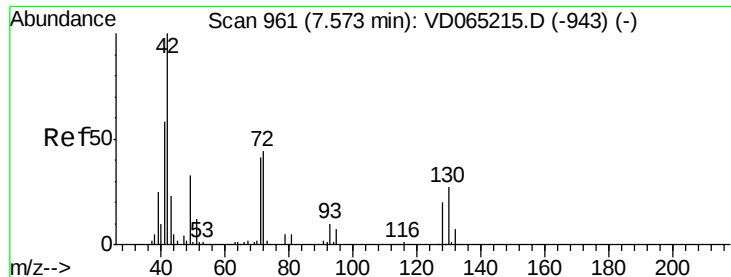
72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

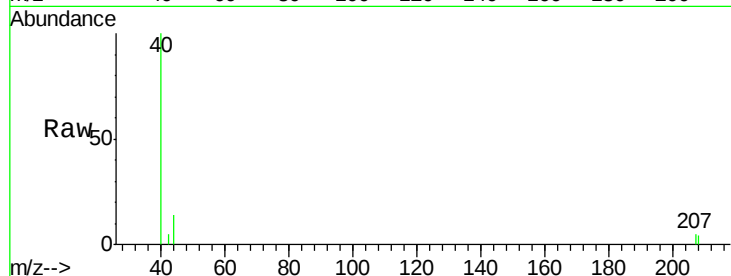




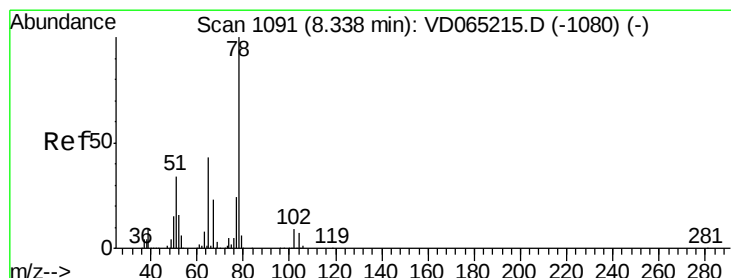
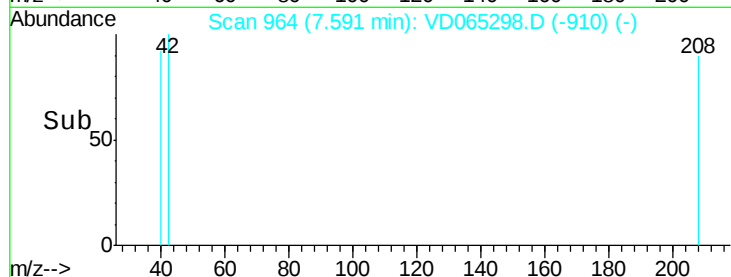
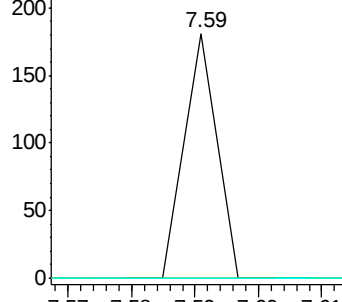
#29
Tetrahydrofuran
Concen: 5.302 ug/l
RT: 7.59 min Scan# 964
Delta R.T. 0.02 min
Lab File: VD065298.D
Acq: 24 Feb 2020 16:53

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01RE

Tot Ion: 42 Resp: 64
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.4 47.2#

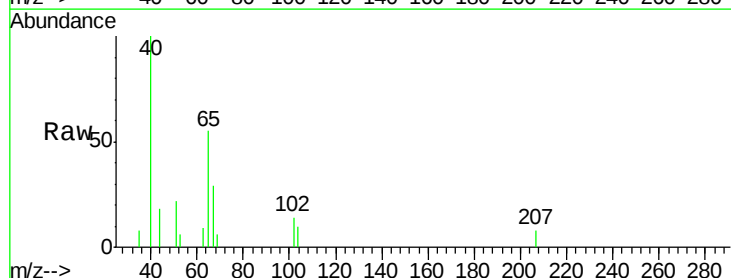


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

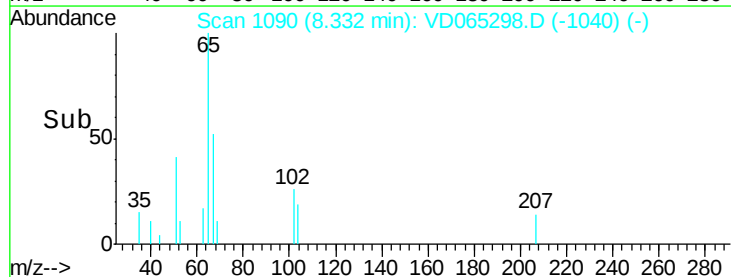
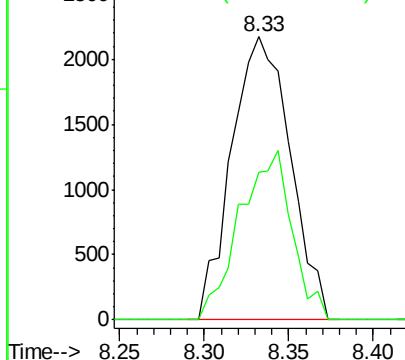


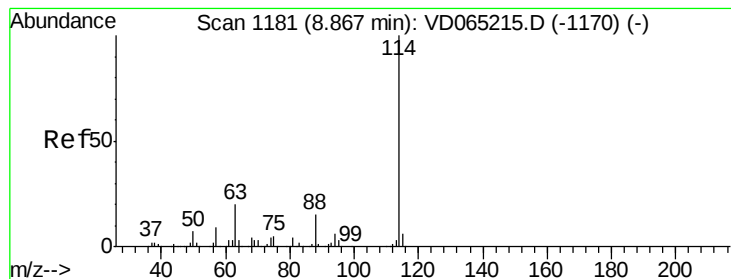
#33
1,2-Dichloroethane-d4
Concen: 78.915 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065298.D
Acq: 24 Feb 2020 16:53

Tgt Ion: 65 Resp: 5257
Ion Ratio Lower Upper
65 100
67 52.8 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: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD065298.D

Acq: 24 Feb 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01RE

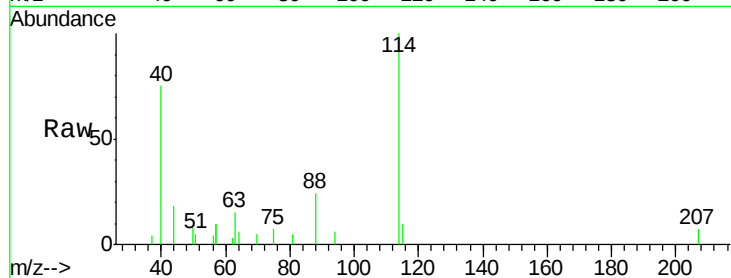
Tot Ion:114 Resp: 10924

Ion Ratio Lower Upper

114 100

63 14.6 0.0 39.4

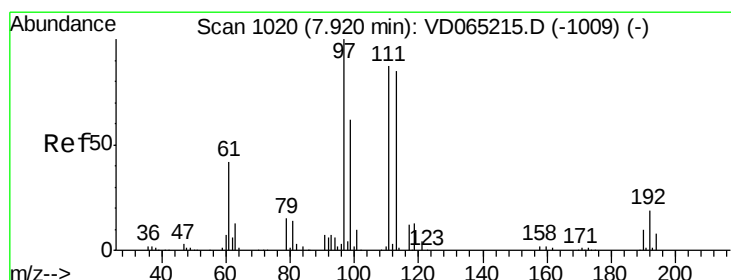
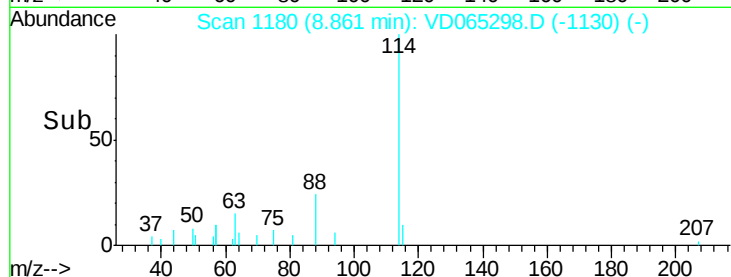
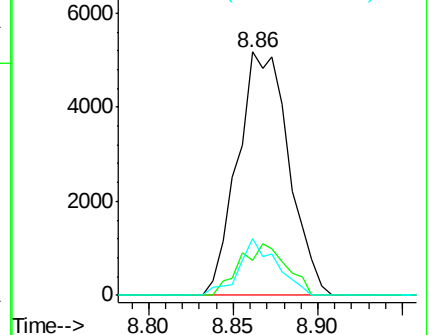
88 23.6 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 54.813 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.01 min

Lab File: VD065298.D

Acq: 24 Feb 2020 16:53

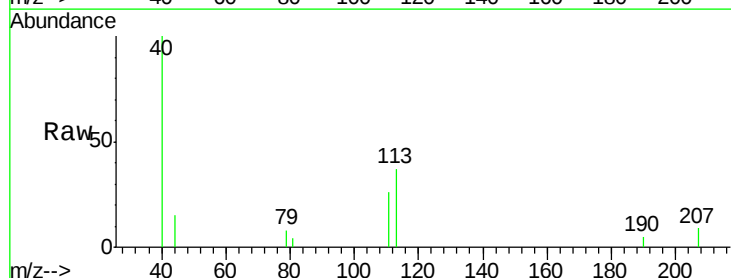
Tgt Ion:113 Resp: 3651

Ion Ratio Lower Upper

113 100

111 102.4 82.9 124.3

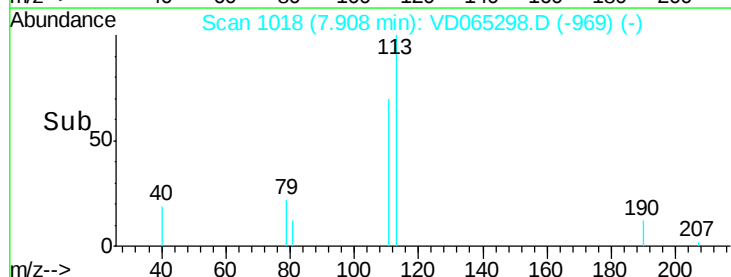
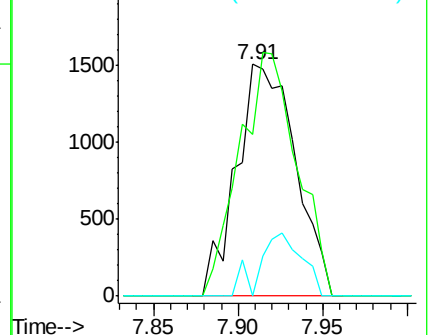
192 19.5 17.3 25.9

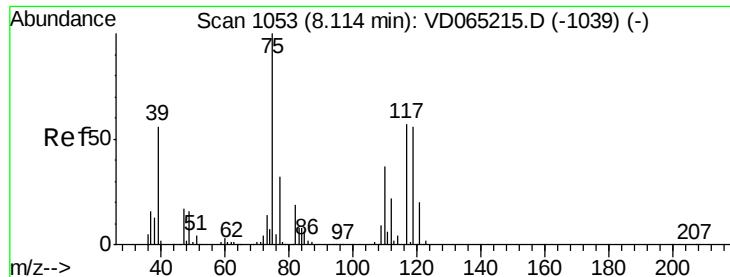


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

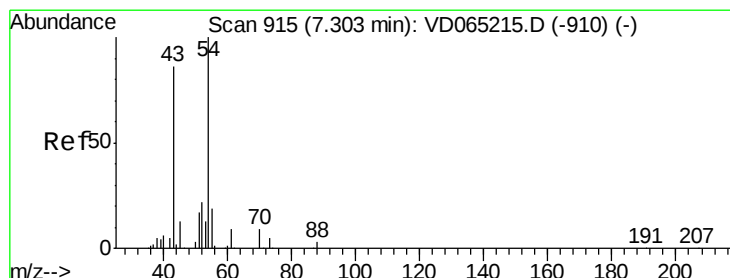
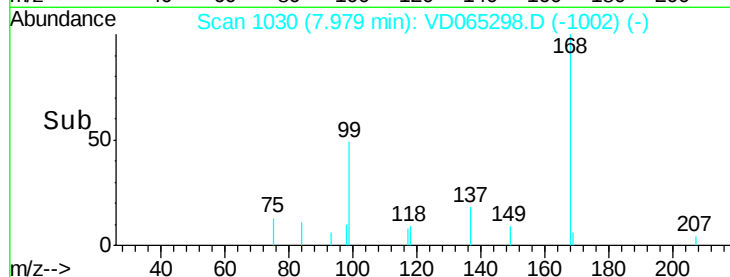
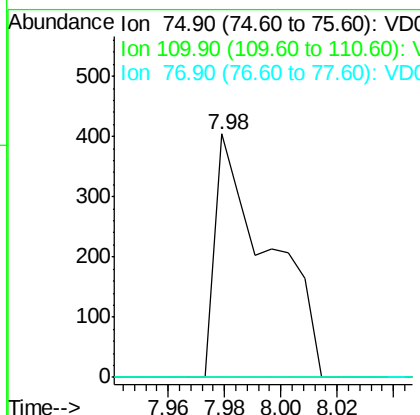
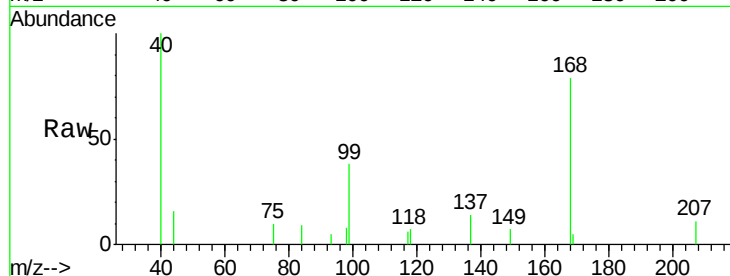




#36
 1,1-Dichloropropene
 Concen: 4.958 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065298.D
 Acq: 24 Feb 2020 16:53

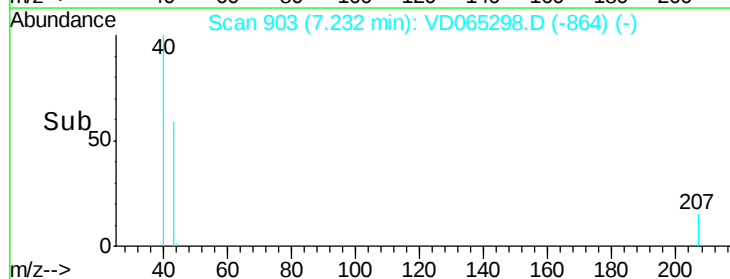
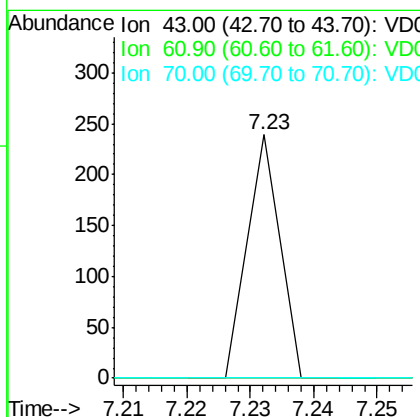
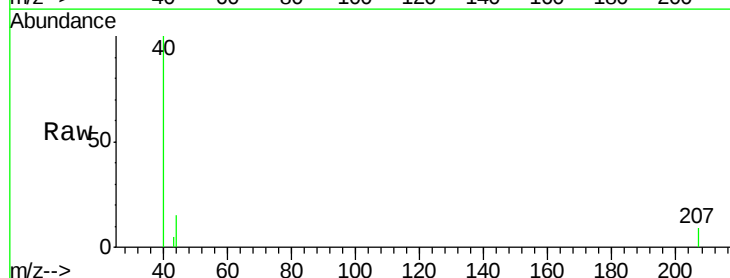
Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01RE

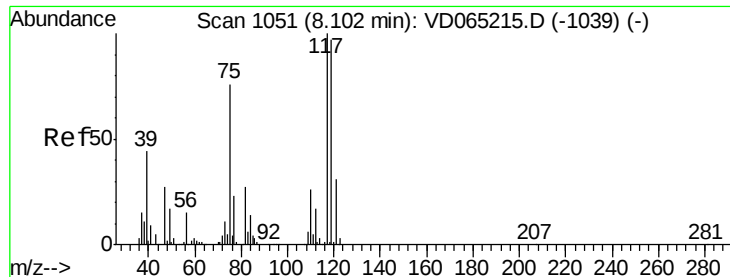
Tot Ion: 75 Resp: 527
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.9 53.7#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 1.890 ug/l
 RT: 7.23 min Scan# 903
 Delta R.T. -0.07 min
 Lab File: VD065298.D
 Acq: 24 Feb 2020 16:53

Tgt Ion: 43 Resp: 84
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.2 16.8#
 70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: 6.793 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD065298.D

Acq: 24 Feb 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01RE

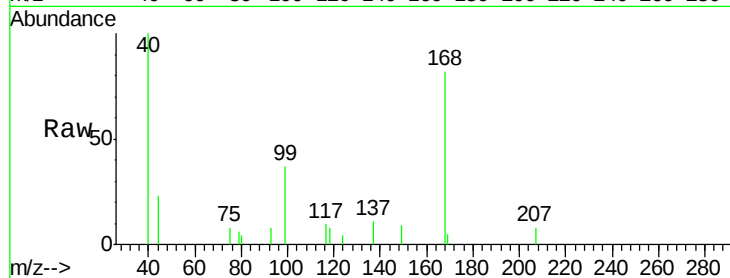
Tot Ion:117 Resp: 735

Ion Ratio Lower Upper

117 100

119 0.0 77.6 116.4#

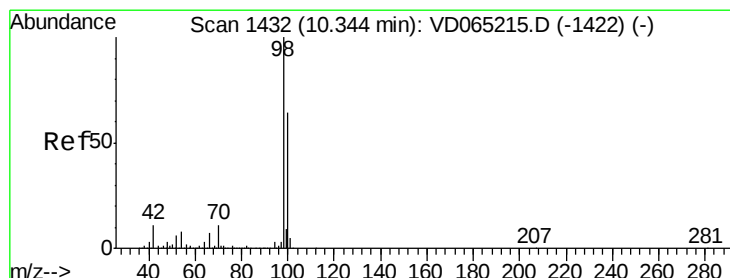
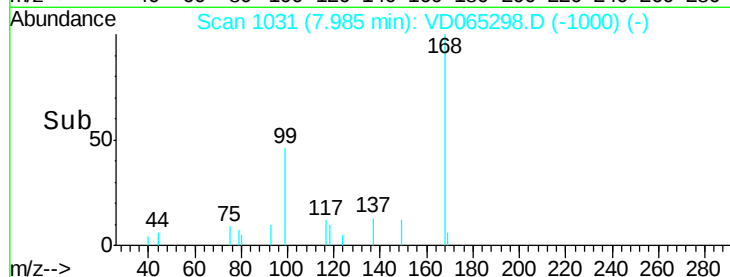
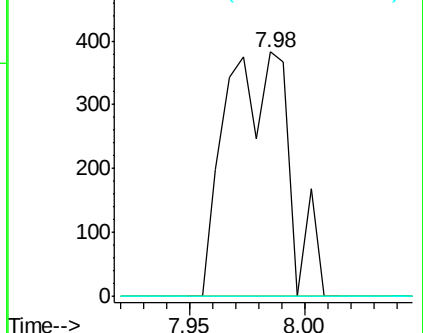
121 0.0 24.8 37.2#



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: 48.461 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065298.D

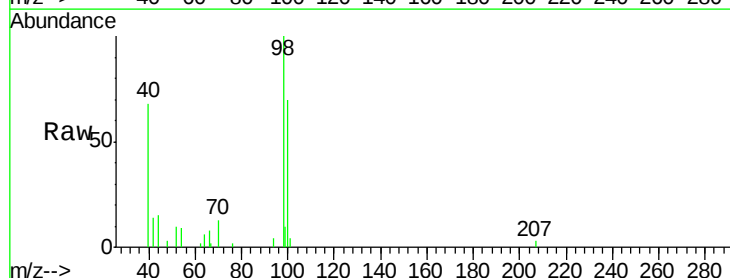
Acq: 24 Feb 2020 16:53

Tgt Ion: 98 Resp: 12340

Ion Ratio Lower Upper

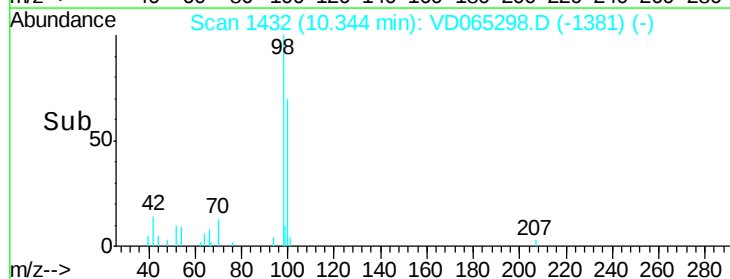
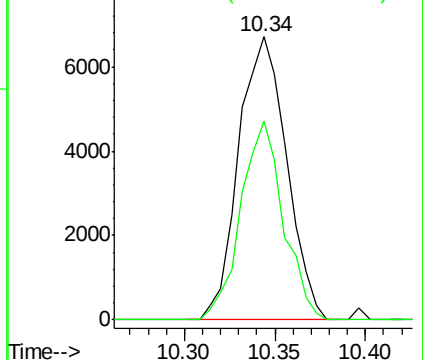
98 100

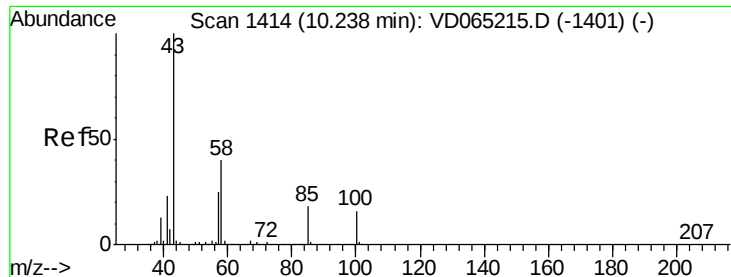
100 62.3 52.0 78.0



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: 1.340 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD065298.D

Acq: 24 Feb 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

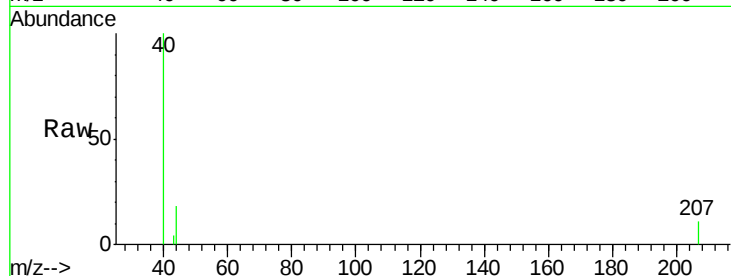
LIED-TS001-01RE

Tot Ion: 43 Resp: 55

Ion Ratio Lower Upper

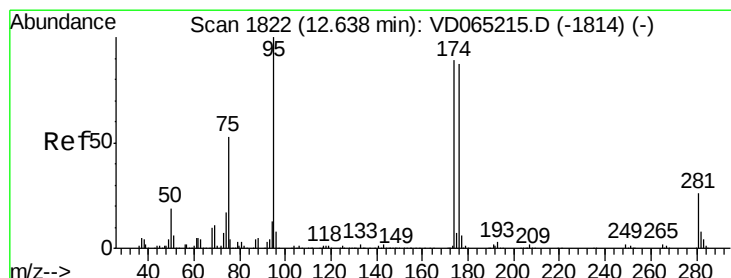
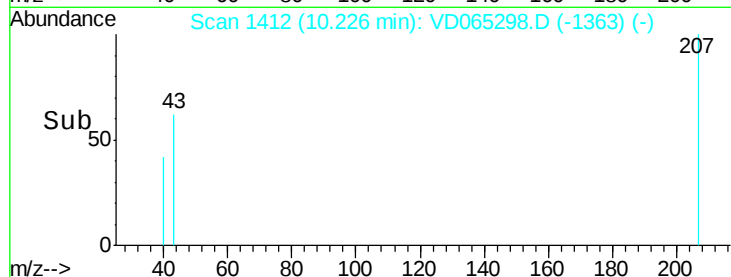
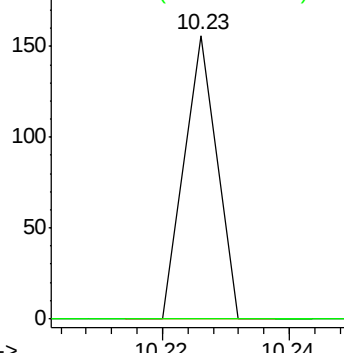
43 100

58 0.0 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 47.132 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065298.D

Acq: 24 Feb 2020 16:53

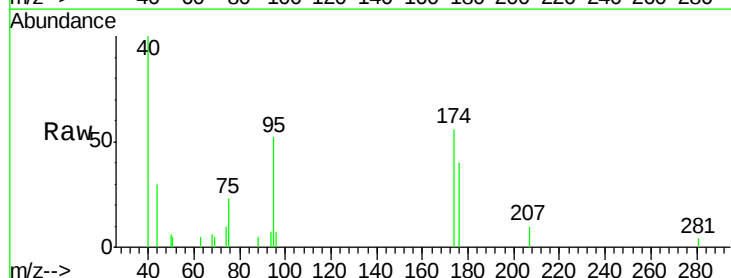
Tgt Ion: 95 Resp: 3802

Ion Ratio Lower Upper

95 100

174 84.8 0.0 178.0

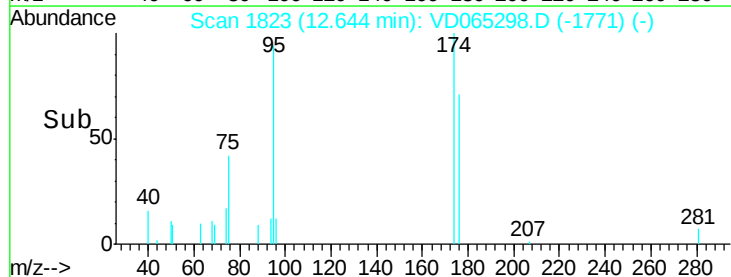
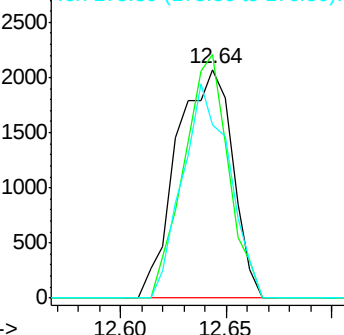
176 78.3 0.0 174.4

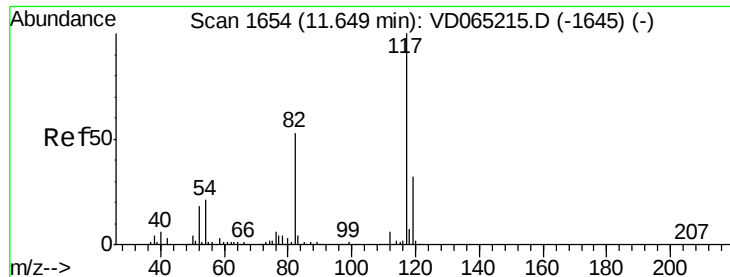


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

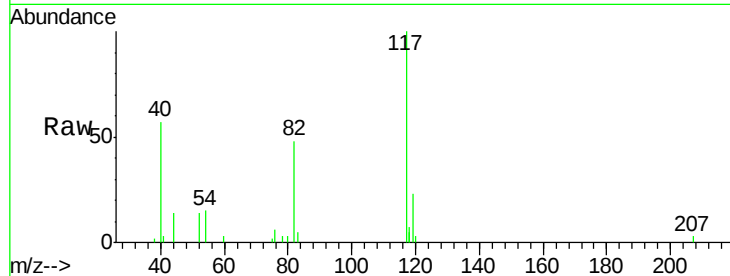




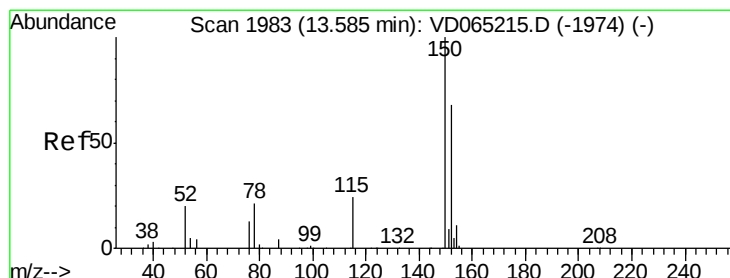
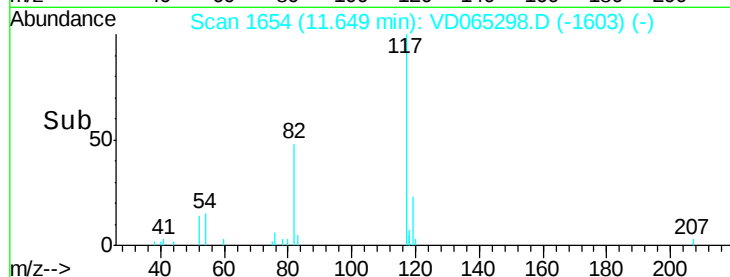
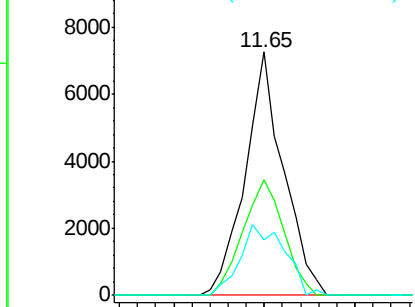
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065298.D
Acq: 24 Feb 2020 16:53

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01RE

Tot Ion:117 Resp: 10638
Ion Ratio Lower Upper
117 100
82 47.5 42.7 64.1
119 22.7 25.5 38.3#

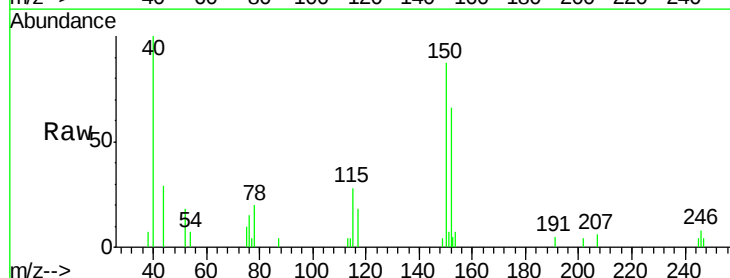


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

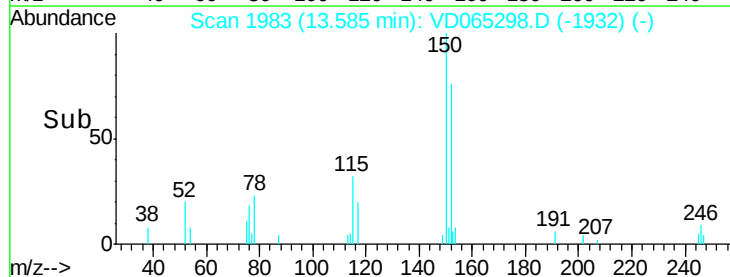
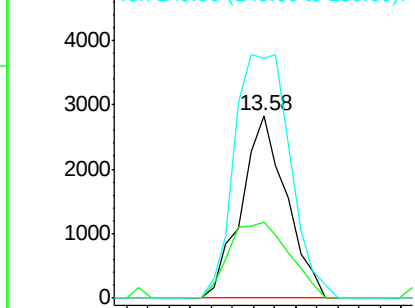


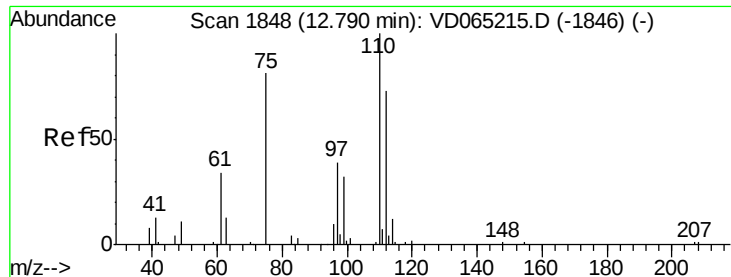
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065298.D
Acq: 24 Feb 2020 16:53

Tgt Ion:152 Resp: 4199
Ion Ratio Lower Upper
152 100
115 55.4 27.6 82.8
150 164.9 0.0 347.4



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: 55.617 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD065298.D

Acq: 24 Feb 2020 16:53

Instrument :

MSVOA_D

ClientSampleId :

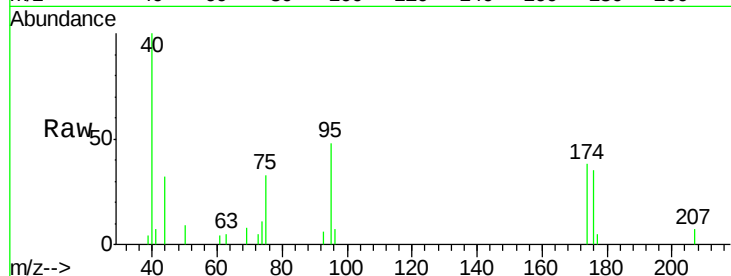
LIED-TS001-01RE

Tot Ion: 75 Resp: 1987

Ion Ratio Lower Upper

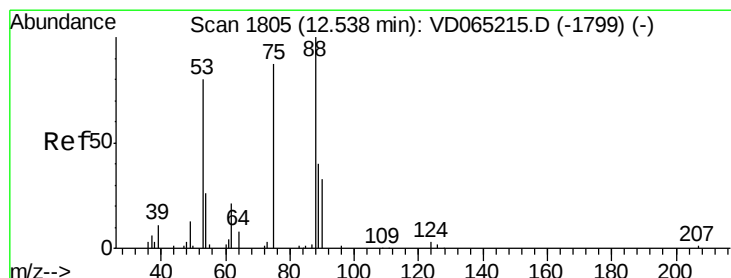
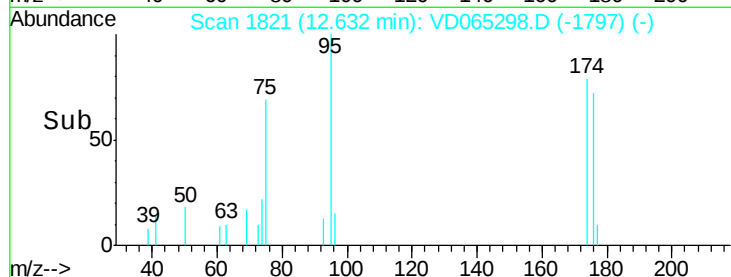
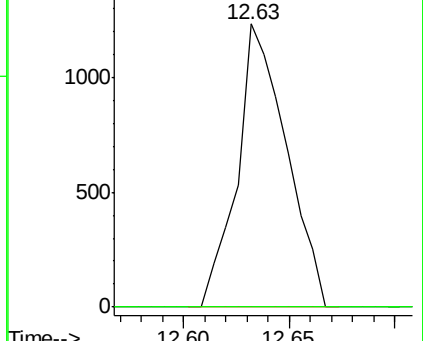
75 100

77 0.0 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: 120.087 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.09 min

Lab File: VD065298.D

Acq: 24 Feb 2020 16:53

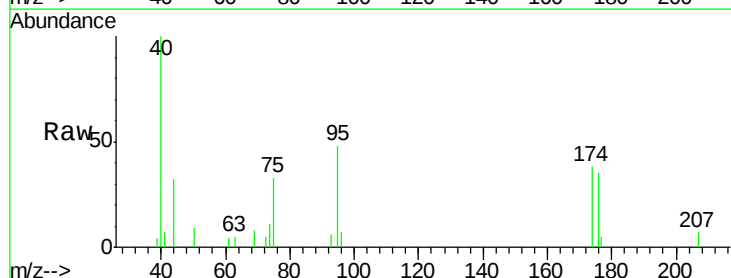
Tgt Ion: 75 Resp: 1987

Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

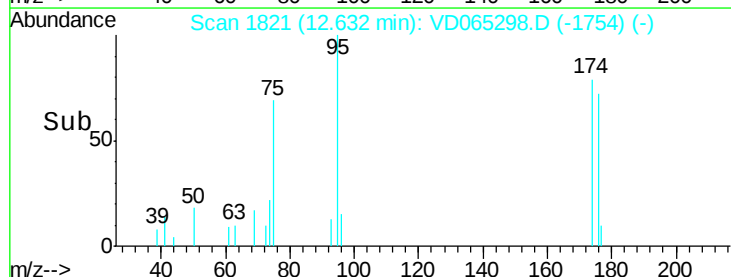
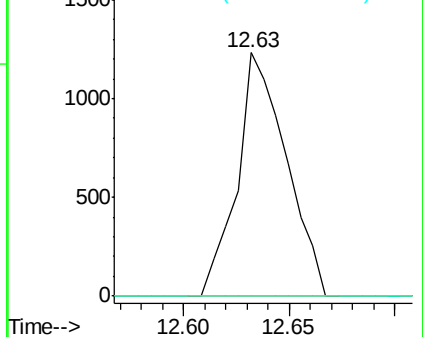
89 0.0 37.2 55.8#

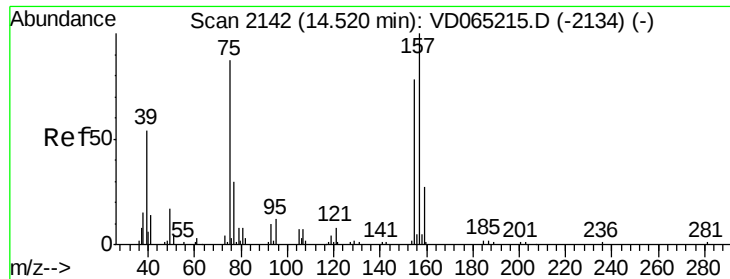


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

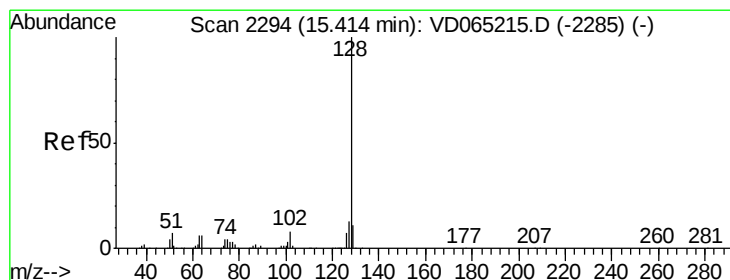
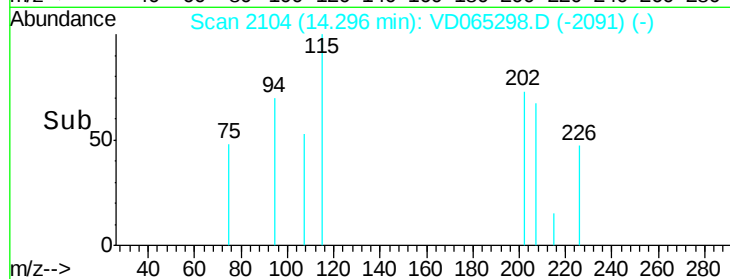
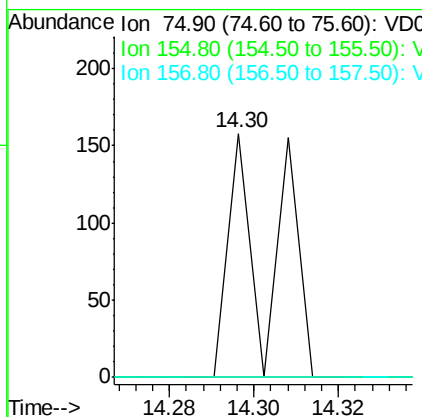
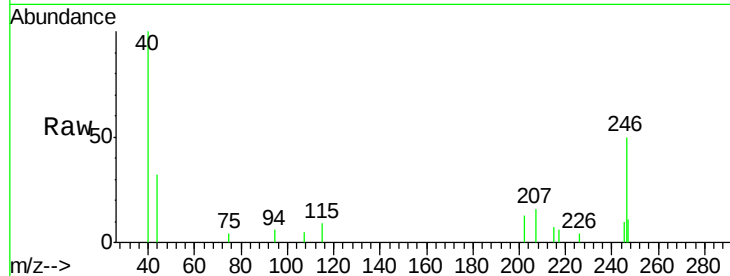




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 14.227 ug/l
 RT: 14.30 min Scan# 2104
 Delta R.T. -0.22 min
 Lab File: VD065298.D
 Acq: 24 Feb 2020 16:53

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01RE

Tot Ion: 75 Resp: 110
 Ion Ratio Lower Upper
 75 100
 155 0.0 42.3 126.9#
 157 0.0 56.7 170.1#



#95
 Naphthalene
 Concen: 1.018 ug/l
 RT: 15.42 min Scan# 2295
 Delta R.T. 0.01 min
 Lab File: VD065298.D
 Acq: 24 Feb 2020 16:53

Tgt Ion: 128 Resp: 124
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.8 13.2#

