

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030320\
 Data File : VD065394.D
 Acq On : 03 Mar 2020 15:05
 Operator : VA/SY
 Sample : L1769-02RE
 Misc : 5.09G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 04 04:53:02 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	4266	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	6326	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	5214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.59	152	1441	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	2078	54.15	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	108.30%	
35) Dibromofluoromethane	7.92	113	1709	44.31	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	88.62%	
50) Toluene-d8	10.34	98	6733	45.66	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.32%	
62) 4-Bromofluorobenzene	12.64	95	1575	33.72	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	67.44%	

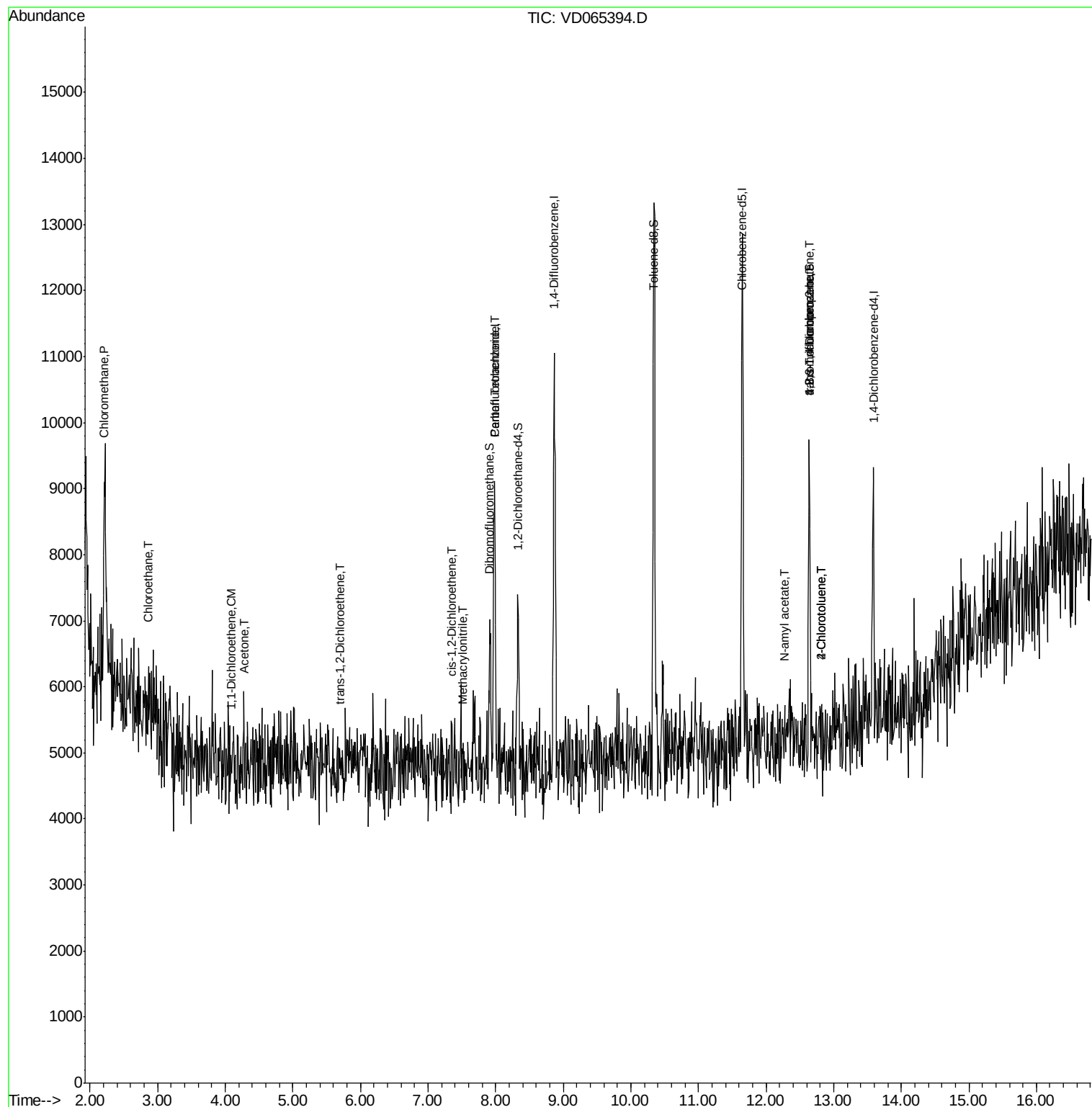
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	64	1.405	ug/l #	43
6) Chloroethane	2.87	64	59	2.087	ug/l #	43
12) 1,1-Dichloroethene	4.08	96	56	1.416	ug/l #	1
16) Acetone	4.28	43	55	5.863	ug/l #	42
21) trans-1,2-Dichloroethene	5.69	96	63	1.401	ug/l #	1
27) cis-1,2-Dichloroethene	7.34	96	55	1.155	ug/l #	1
38) Carbon Tetrachloride	7.98	117	207	3.304	ug/l #	12
41) Methacrylonitrile	7.51	41	56	3.769	ug/l #	21
74) N-amyl acetate	12.27	43	66	3.113	ug/l #	43
76) 1,2,3-Trichloropropane	12.64	75	896	73.081	ug/l #	100
79) 2-Chlorotoluene	12.83	91	79	1.230	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.64	75	896	157.794	ug/l #	11
82) 4-Chlorotoluene	12.83	91	79	1.159	ug/l #	40

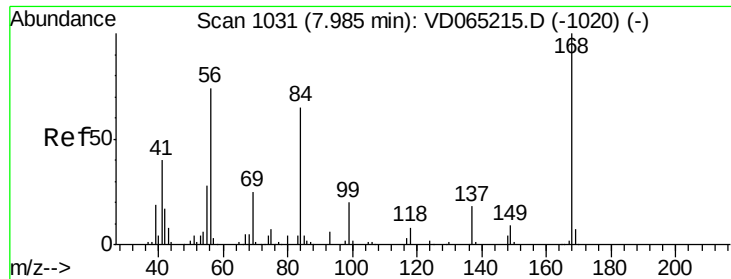
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065394.D

Acq: 03 Mar 2020 15:05

Instrument :

MSVOA_D

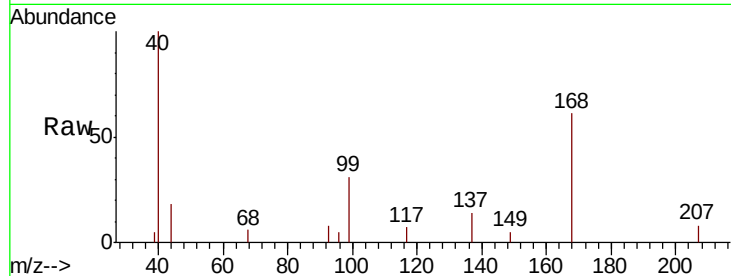
ClientSampleId :

Tot Ion:168 Resp: 4266

Ion Ratio Lower Upper

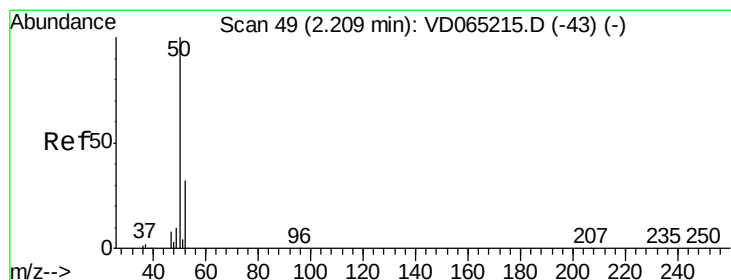
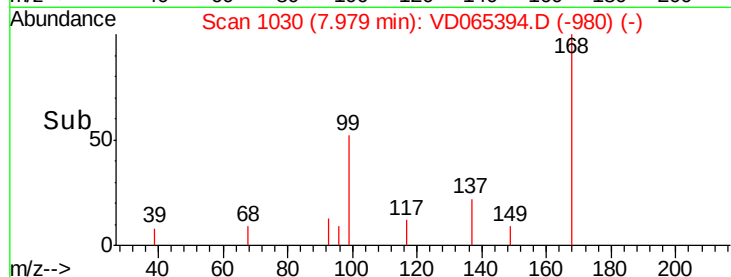
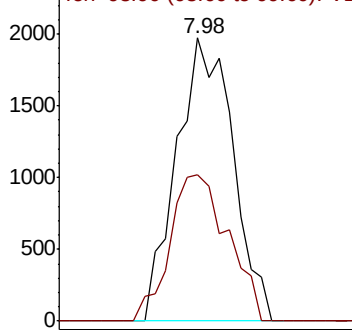
168 100

99 51.6 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.405 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD065394.D

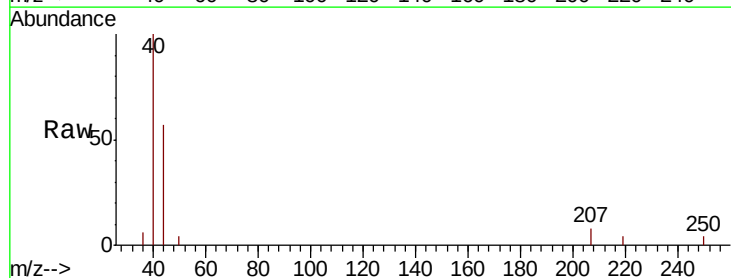
Acq: 03 Mar 2020 15:05

Tgt Ion: 50 Resp: 64

Ion Ratio Lower Upper

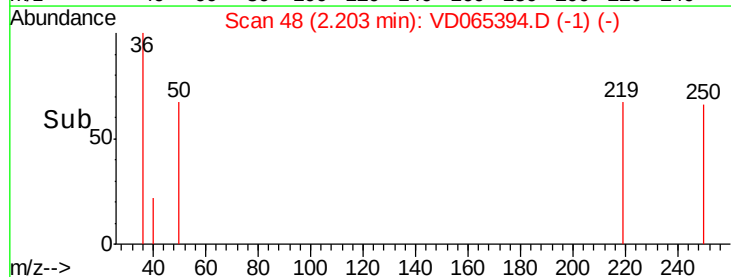
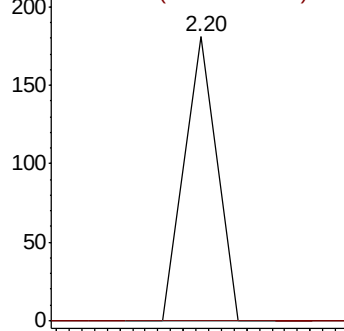
50 100

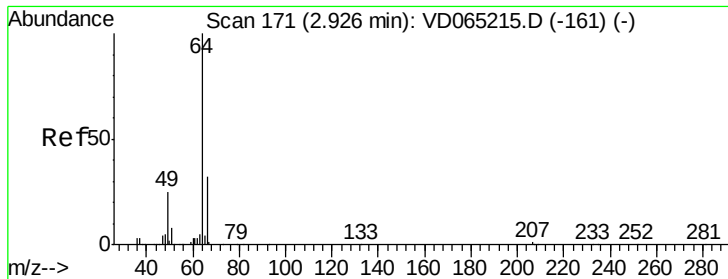
52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#6

Chloroethane

Concen: 2.087 ug/l

RT: 2.87 min Scan# 162

Delta R.T. -0.05 min

Lab File: VD065394.D

Acq: 03 Mar 2020 15:05

Instrument :

MSVOA_D

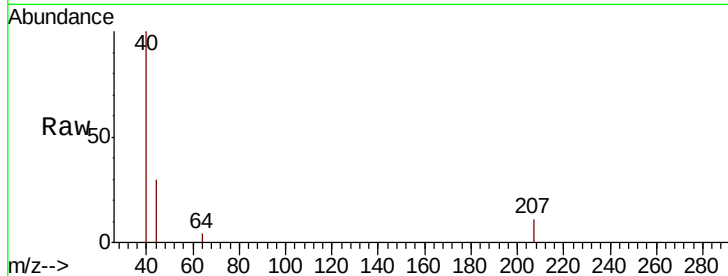
ClientSampleId :

Tot Ion: 64 Resp: 59

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.87

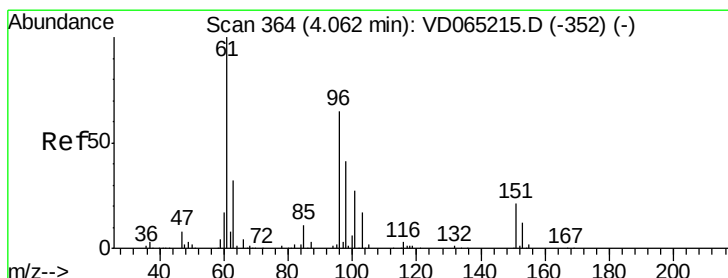
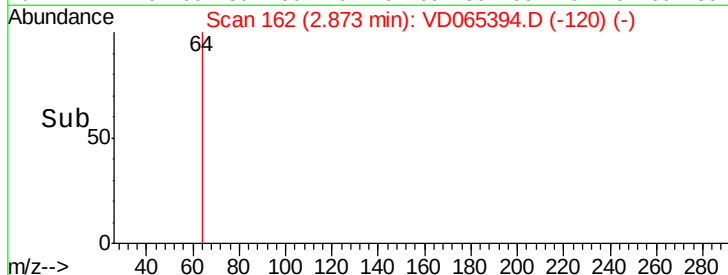
150

100

50

0

Time-->



#12

1,1-Dichloroethene

Concen: 1.416 ug/l

RT: 4.08 min Scan# 367

Delta R.T. 0.02 min

Lab File: VD065394.D

Acq: 03 Mar 2020 15:05

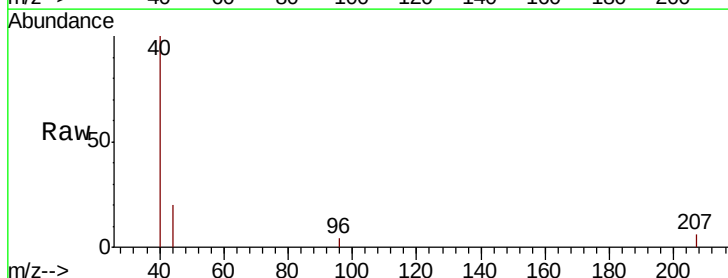
Tgt Ion: 96 Resp: 56

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

200

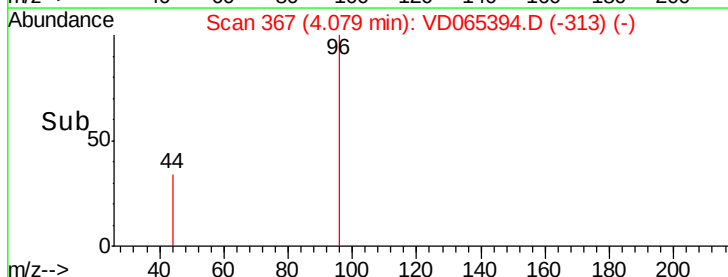
150

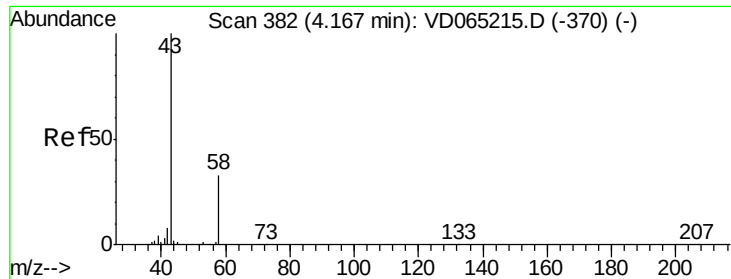
100

50

0

Time-->





#16

Acetone

Concen: 5.863 ug/l

RT: 4.28 min Scan# 402

Delta R.T. 0.12 min

Lab File: VD065394.D

Acq: 03 Mar 2020 15:05

Instrument :

MSVOA_D

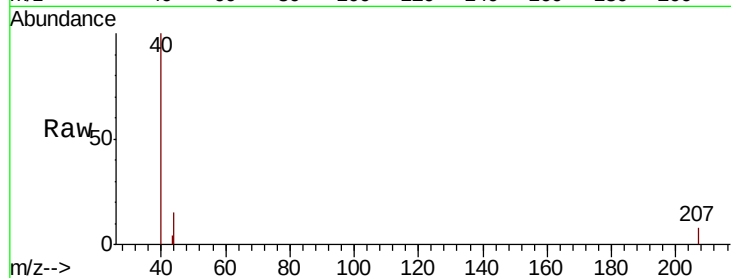
ClientSampleId :

Tot Ion: 43 Resp: 55

Ion Ratio Lower Upper

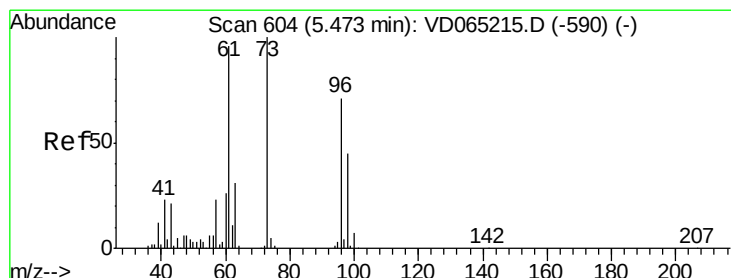
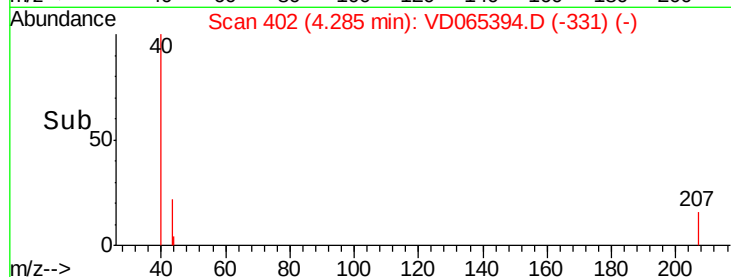
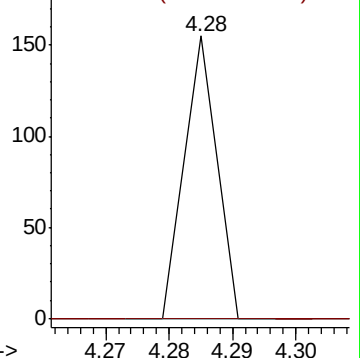
43 100

58 0.0 26.2 39.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#21

trans-1,2-Dichloroethene

Concen: 1.401 ug/l

RT: 5.69 min Scan# 641

Delta R.T. 0.22 min

Lab File: VD065394.D

Acq: 03 Mar 2020 15:05

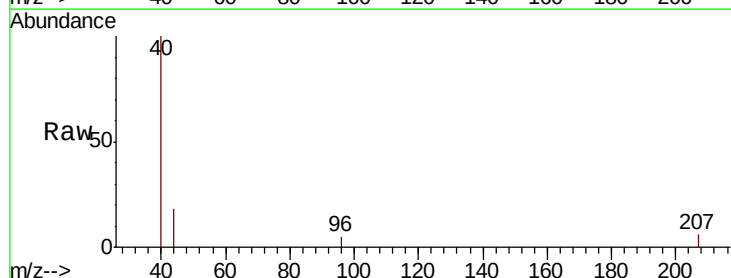
Tgt Ion: 96 Resp: 63

Ion Ratio Lower Upper

96 100

61 0.0 108.3 162.5#

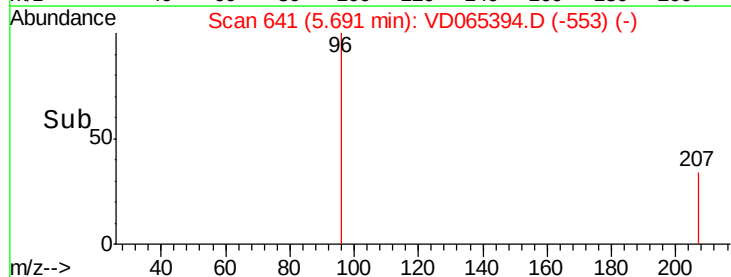
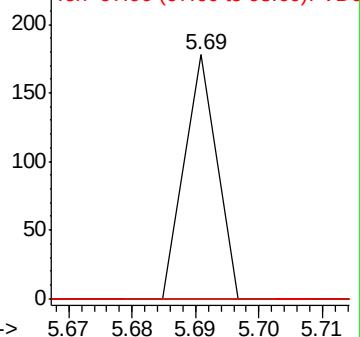
98 0.0 50.7 76.1#

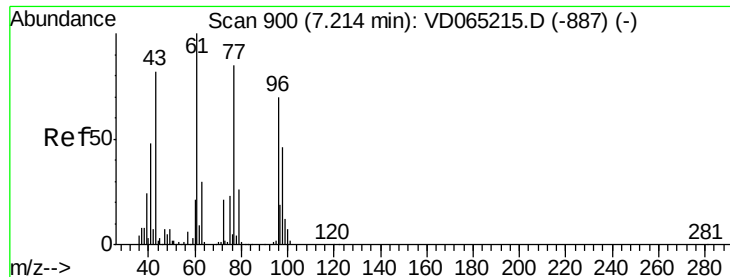


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



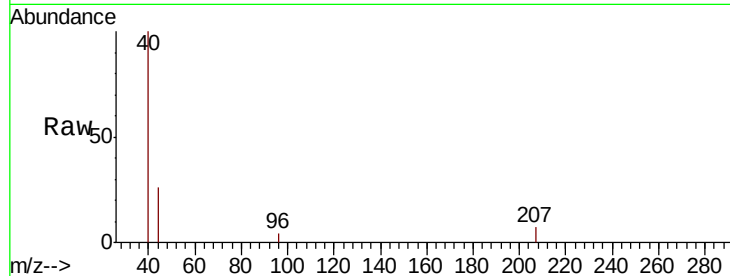


#27

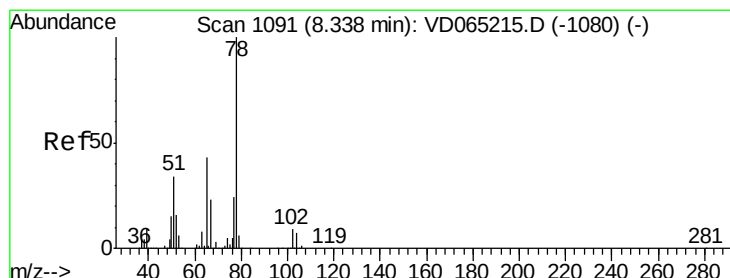
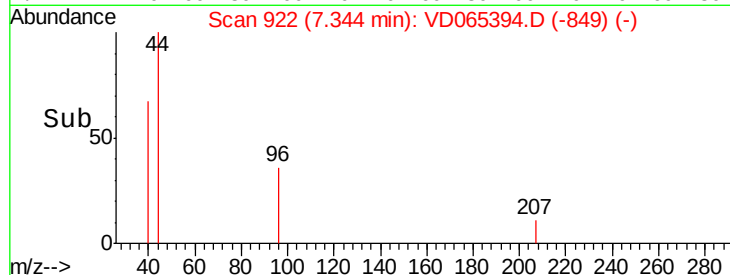
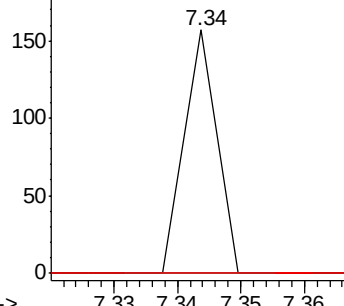
cis-1,2-Dichloroethene
 Concen: 1.155 ug/l
 RT: 7.34 min Scan# 922
 Delta R.T. 0.13 min
 Lab File: VD065394.D
 Acq: 03 Mar 2020 15:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	286.0
98	0.0	0.0	127.8



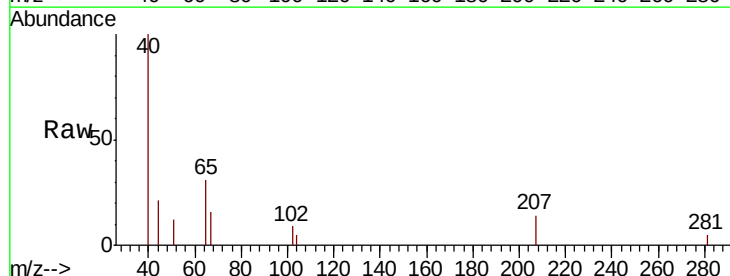
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC



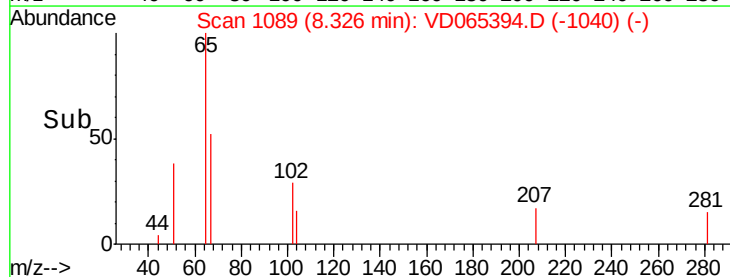
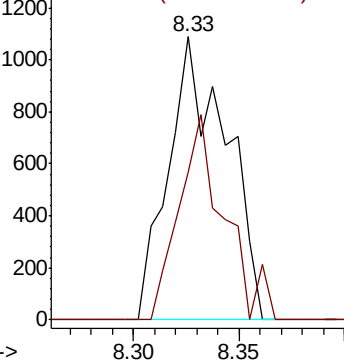
#33

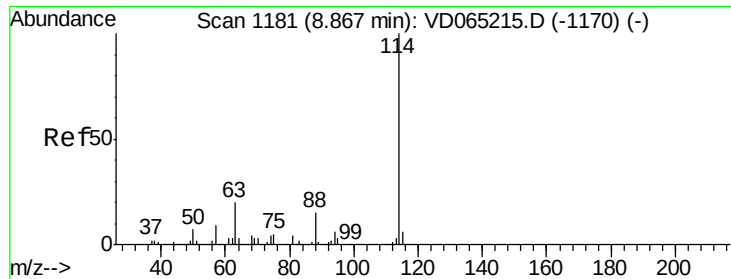
1,2-Dichloroethane-d4
 Concen: 54.146 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VD065394.D
 Acq: 03 Mar 2020 15:05

Tgt Ion	Ratio	Lower	Upper
65	100		
67	56.4	0.0	106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC
 Ion 66.90 (66.60 to 67.60): VDC

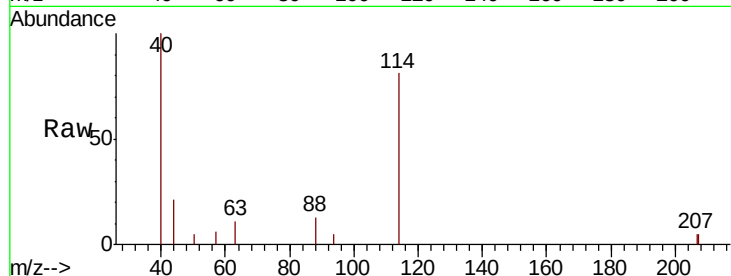




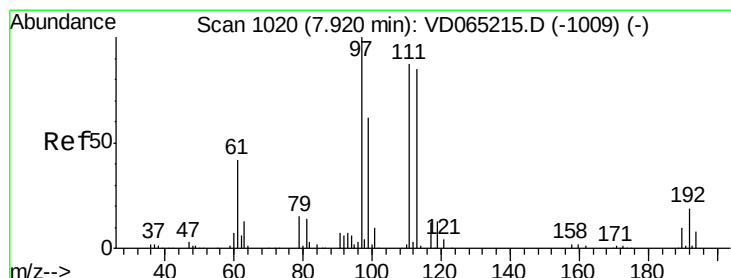
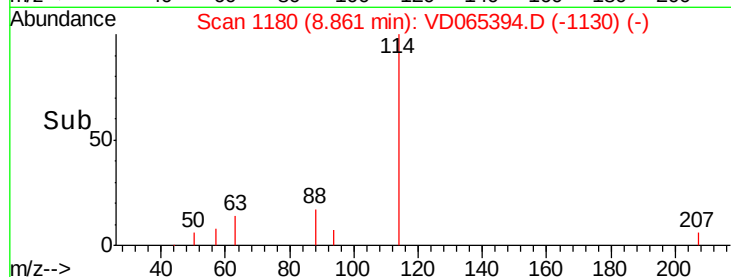
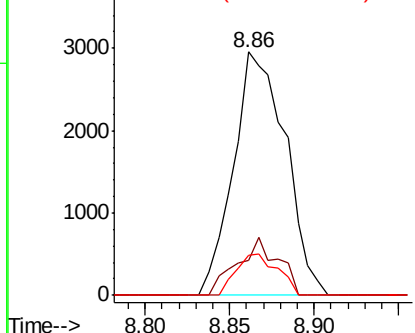
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD065394.D
 Acq: 03 Mar 2020 15:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 6326
 Ion Ratio Lower Upper
 114 100
 63 14.2 0.0 39.4
 88 16.5 0.0 30.4

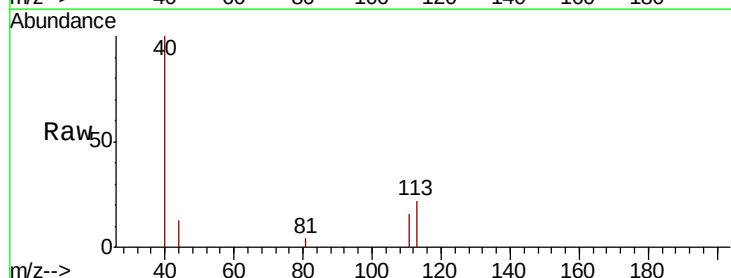


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VDC
 Ion 87.90 (87.60 to 88.60): VDC

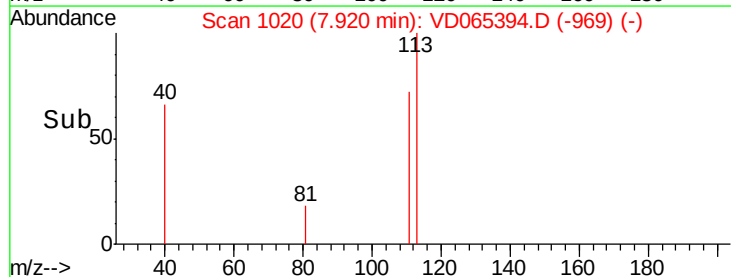
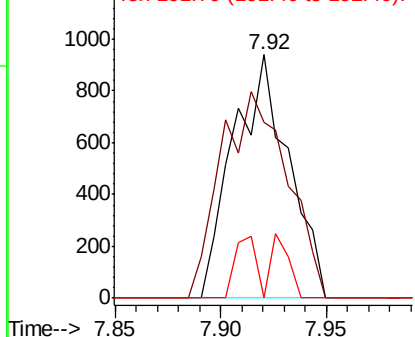


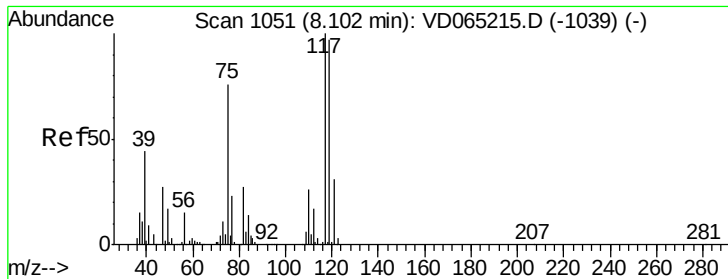
#35
 Dibromofluoromethane
 Concen: 44.306 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065394.D
 Acq: 03 Mar 2020 15:05

Tgt Ion:113 Resp: 1709
 Ion Ratio Lower Upper
 113 100
 111 0.0 82.9 124.3#
 192 8.4 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

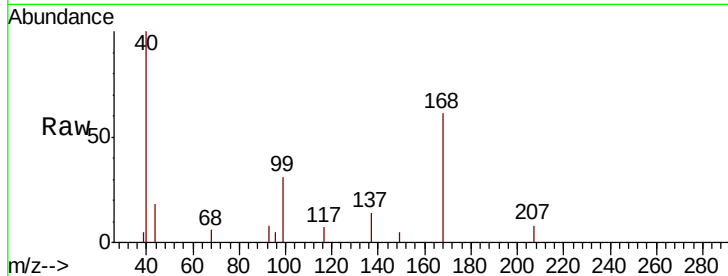




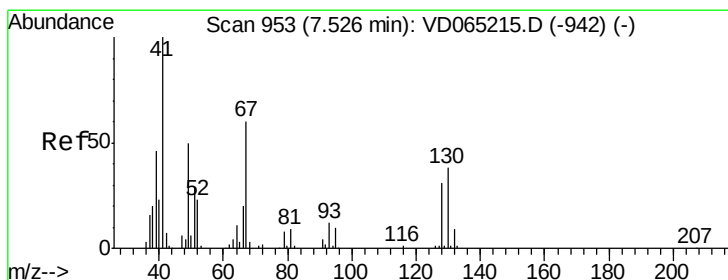
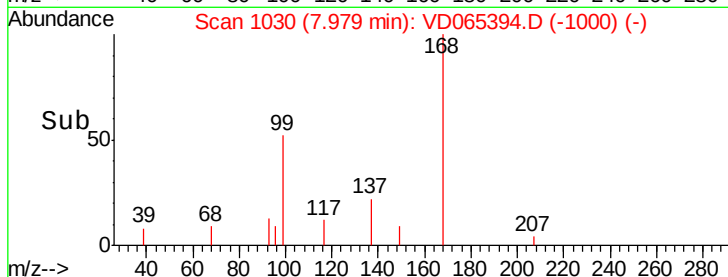
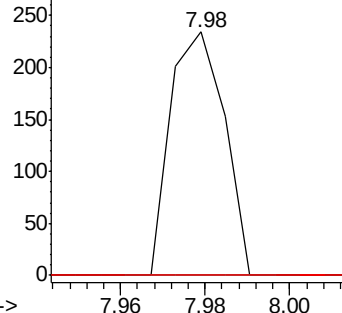
#38
Carbon Tetrachloride
Concen: 3.304 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD065394.D
Acq: 03 Mar 2020 15:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 207
Ion Ratio Lower Upper
117 100
119 0.0 77.6 116.4#
121 0.0 24.8 37.2#

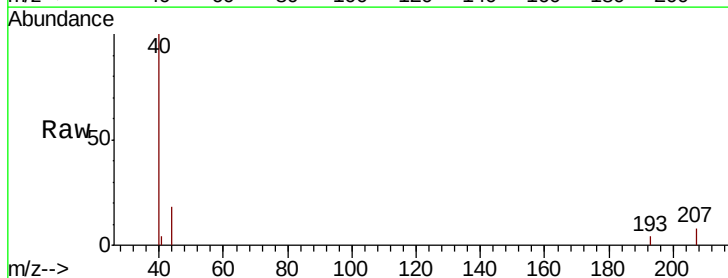


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

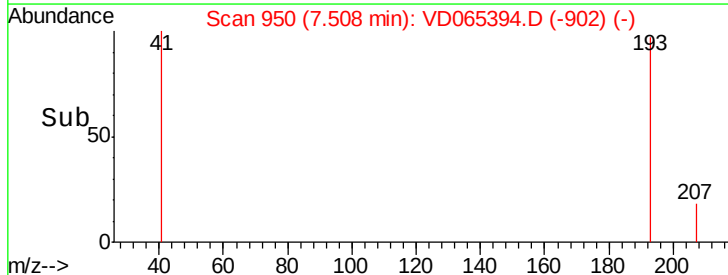
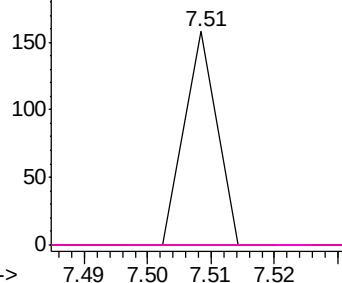


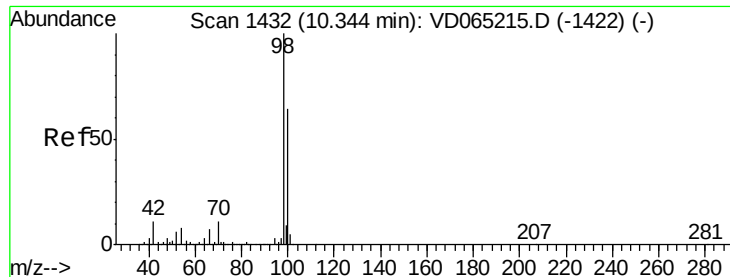
#41
Methacrylonitrile
Concen: 3.769 ug/l
RT: 7.51 min Scan# 950
Delta R.T. -0.02 min
Lab File: VD065394.D
Acq: 03 Mar 2020 15:05

Tgt Ion: 41 Resp: 56
Ion Ratio Lower Upper
41 100
39 0.0 48.1 72.1#
67 0.0 58.9 88.3#
52 0.0 24.2 36.2#



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

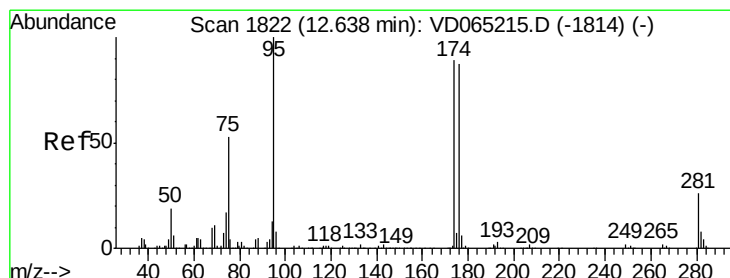
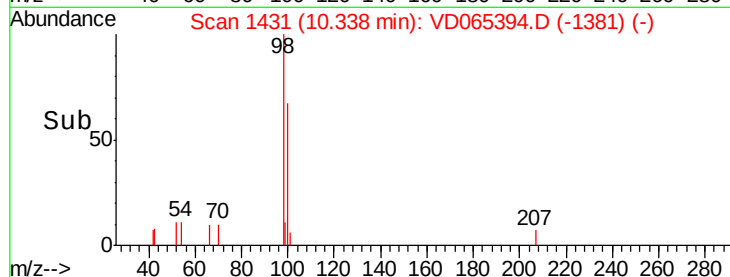
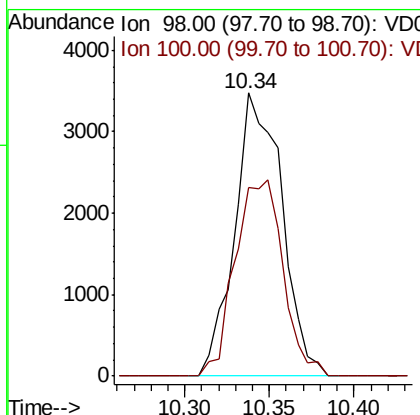
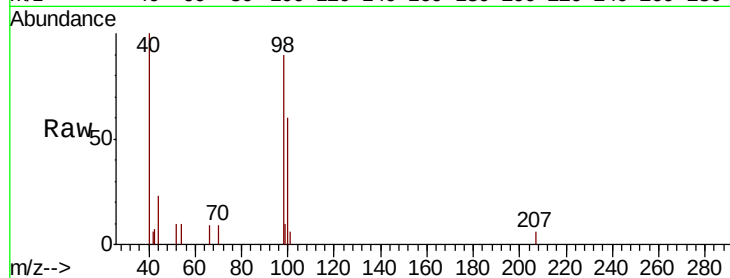




#50
Toluene-d8
Concen: 45.660 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD065394.D
Acq: 03 Mar 2020 15:05

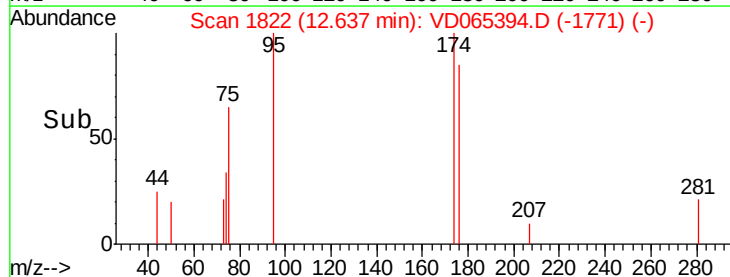
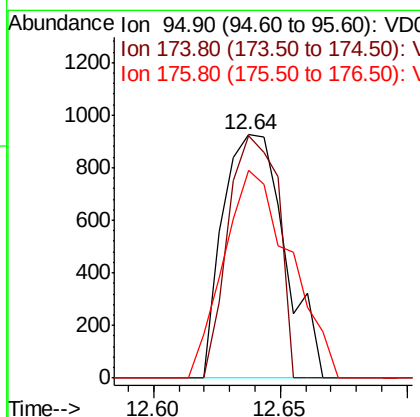
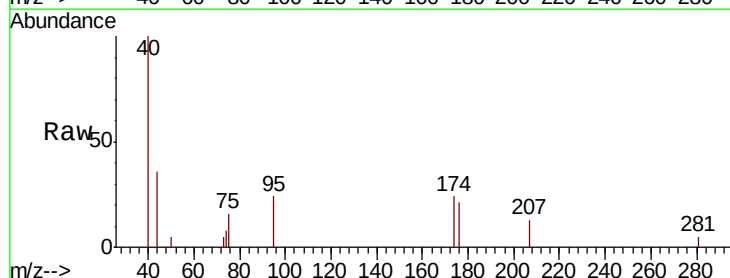
Instrument :
MSVOA_D
ClientSampleId :

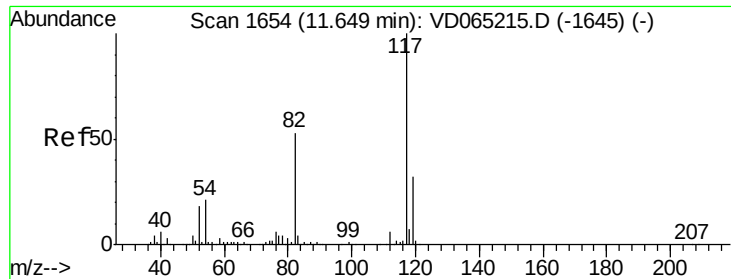
Tot Ion: 98 Resp: 6733
Ion Ratio Lower Upper
98 100
100 70.9 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 33.716 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065394.D
Acq: 03 Mar 2020 15:05

Tgt Ion: 95 Resp: 1575
Ion Ratio Lower Upper
95 100
174 80.3 0.0 178.0
176 92.1 0.0 174.4

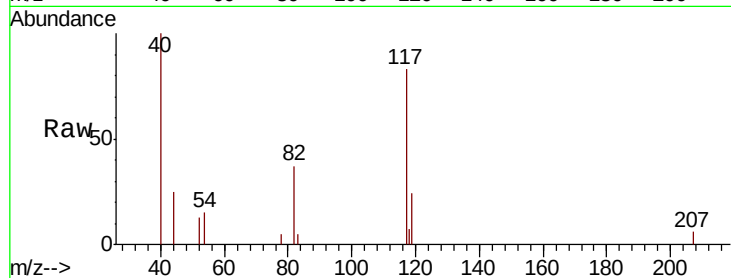




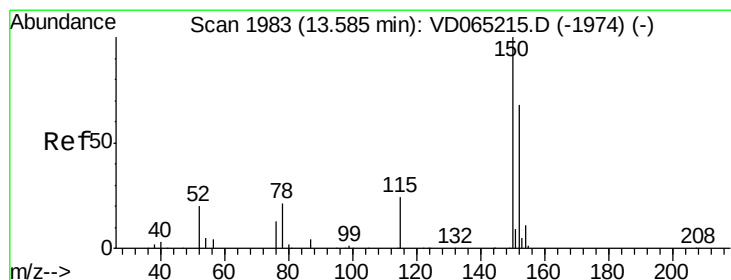
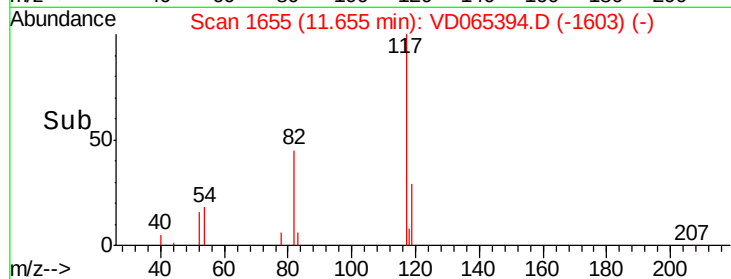
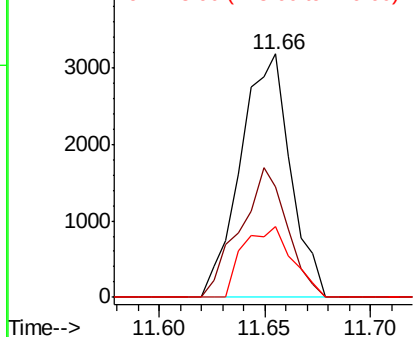
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD065394.D
Acq: 03 Mar 2020 15:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 5214
Ion Ratio Lower Upper
117 100
82 45.3 42.7 64.1
119 29.1 25.5 38.3

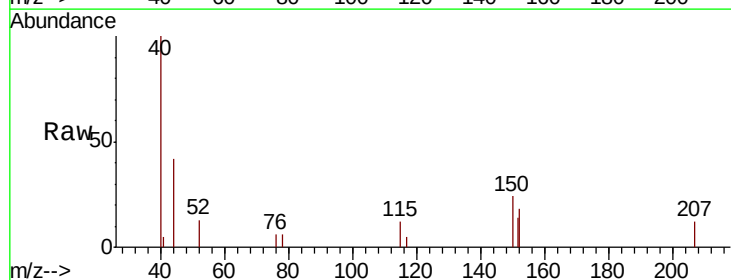


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

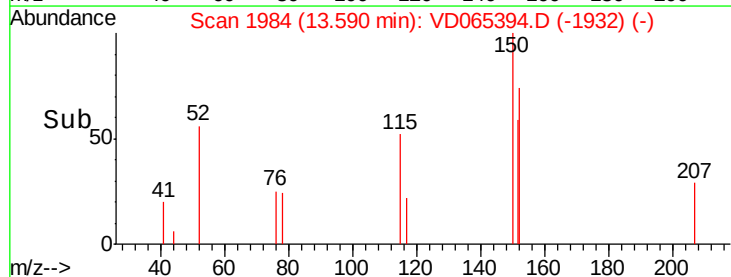
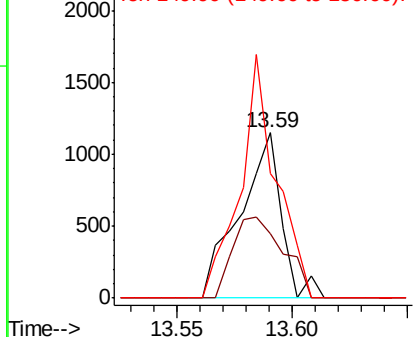


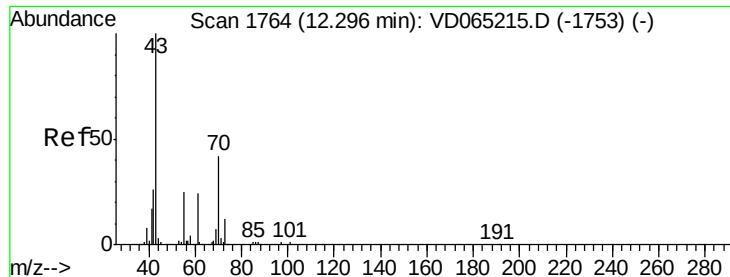
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.59 min Scan# 1984
Delta R.T. 0.01 min
Lab File: VD065394.D
Acq: 03 Mar 2020 15:05

Tgt Ion:152 Resp: 1441
Ion Ratio Lower Upper
152 100
115 59.7 27.6 82.8
150 128.0 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





#74

N-amvl acetate

Concen: 3.113 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD065394.D

Acq: 03 Mar 2020 15:05

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 66

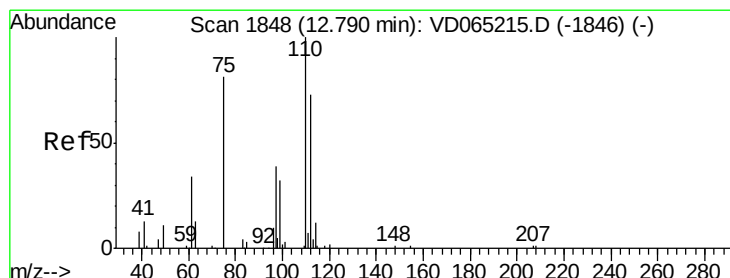
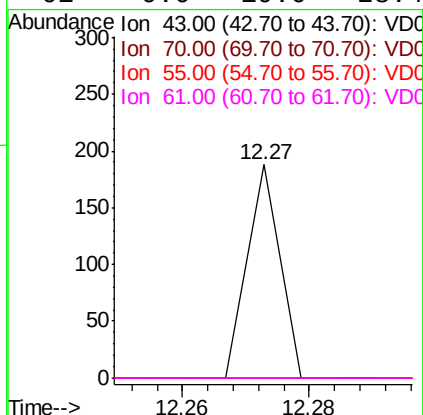
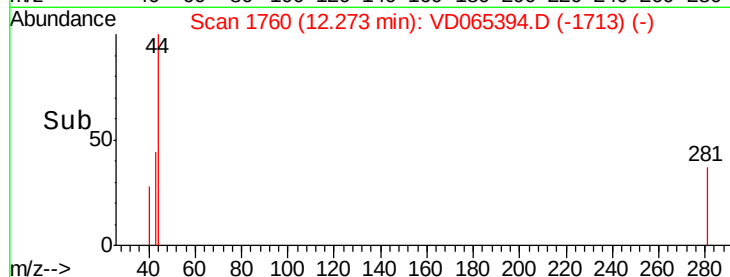
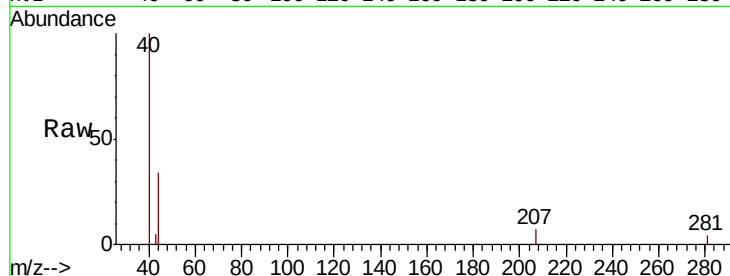
Ion Ratio Lower Upper

43 100

70 0.0 33.7 50.5#

55 0.0 20.7 31.1#

61 0.0 19.0 28.4#



#76

1,2,3-Trichloropropane

Concen: 73.081 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065394.D

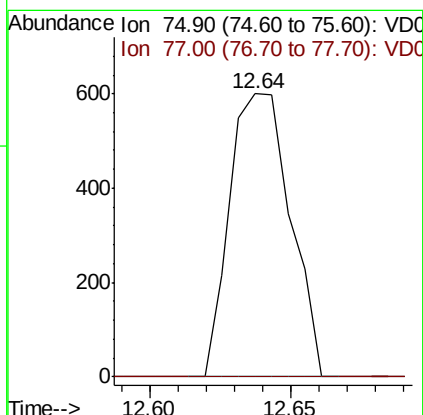
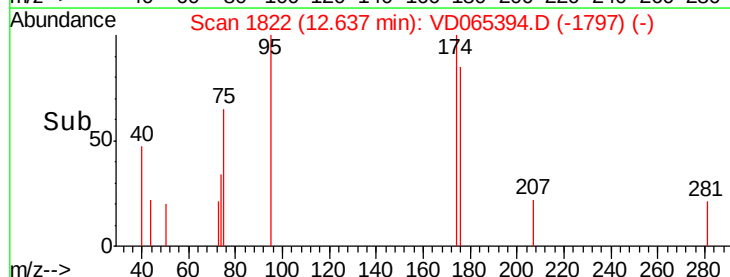
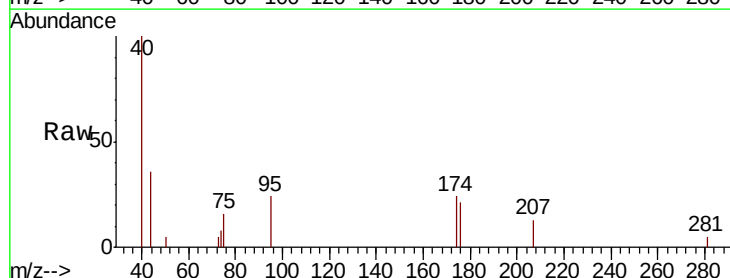
Acq: 03 Mar 2020 15:05

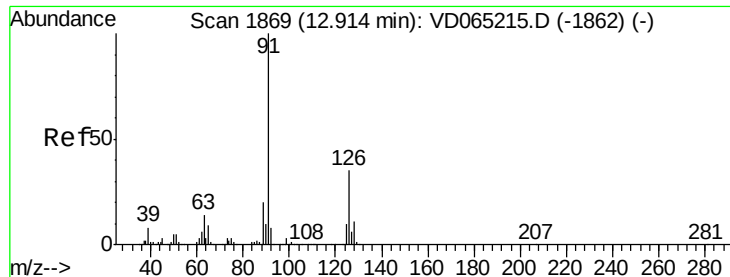
Tgt Ion: 75 Resp: 896

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

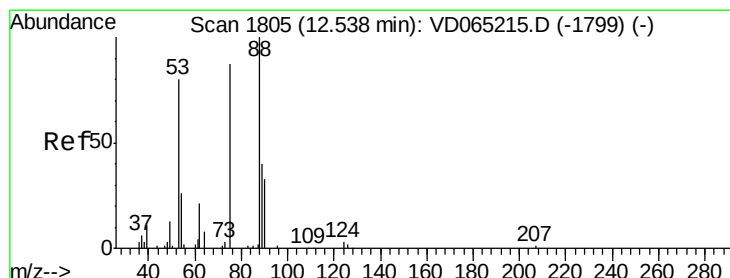
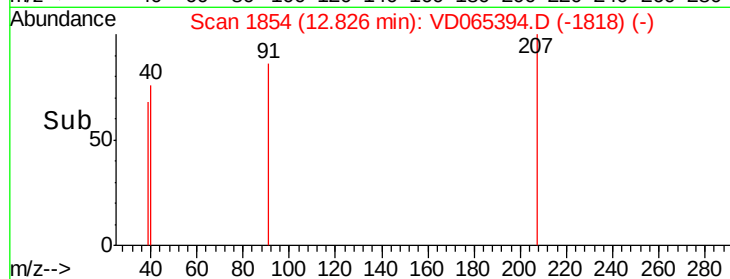
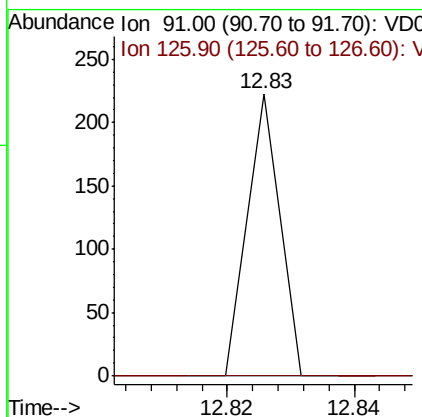
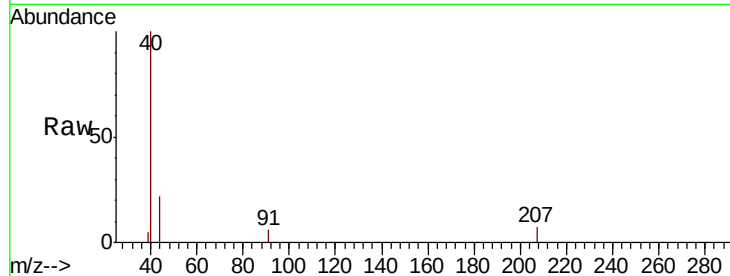




#79
 2-Chlorotoluene
 Concen: 1.230 ug/l
 RT: 12.83 min Scan# 1854
 Delta R.T. -0.09 min
 Lab File: VD065394.D
 Acq: 03 Mar 2020 15:05

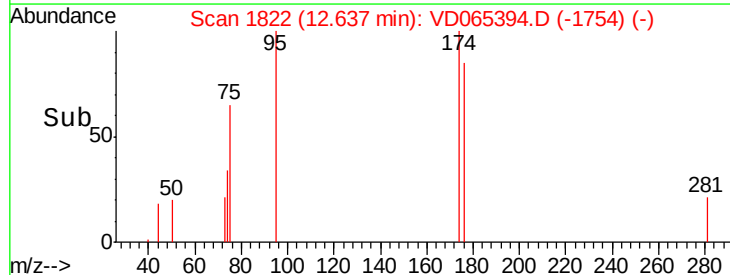
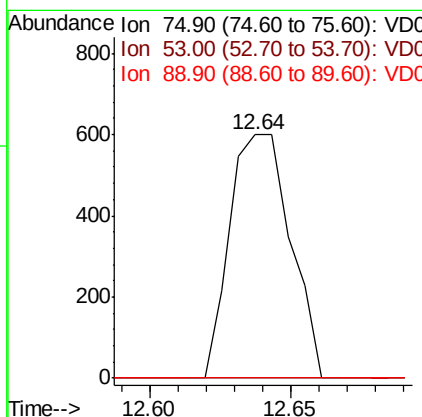
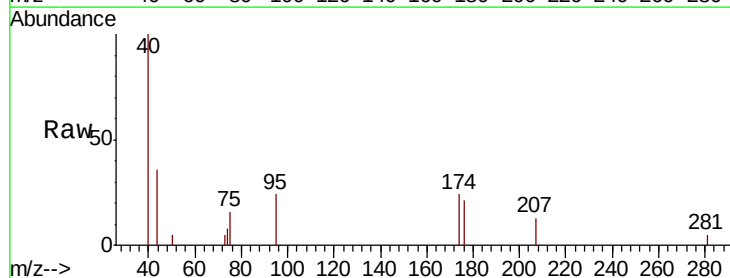
Instrument :
 MSVOA_D
 ClientSampleId :

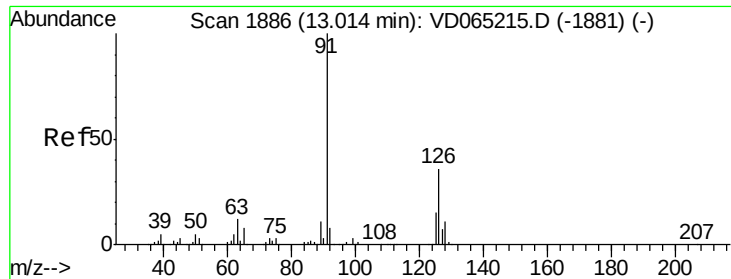
Tot Ion: 91 Resp: 79
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.5 52.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 157.794 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.10 min
 Lab File: VD065394.D
 Acq: 03 Mar 2020 15:05

Tgt Ion: 75 Resp: 896
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.6 116.4#
 89 0.0 37.2 55.8#





#82
 4-Chlorotoluene
 Concen: 1.159 ug/l
 RT: 12.83 min Scan# 1854
 Delta R.T. -0.19 min
 Lab File: VD065394.D
 Acq: 03 Mar 2020 15:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 91 Resp: 79
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.4 52.3#

