

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021720\
 Data File : VD065202.D
 Acq On : 17 Feb 2020 17:48
 Operator : VA/SY
 Sample : L1484-01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-1

Quant Time: Feb 18 03:17:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	4725	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	7265	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	6804	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	2565	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	5175	128.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	257.72%	
35) Dibromofluoromethane	7.91	113	3424	84.47	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	168.94%	
50) Toluene-d8	10.35	98	8391	52.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.02%	
62) 4-Bromofluorobenzene	12.64	95	2788	54.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.08%	

Target Compounds

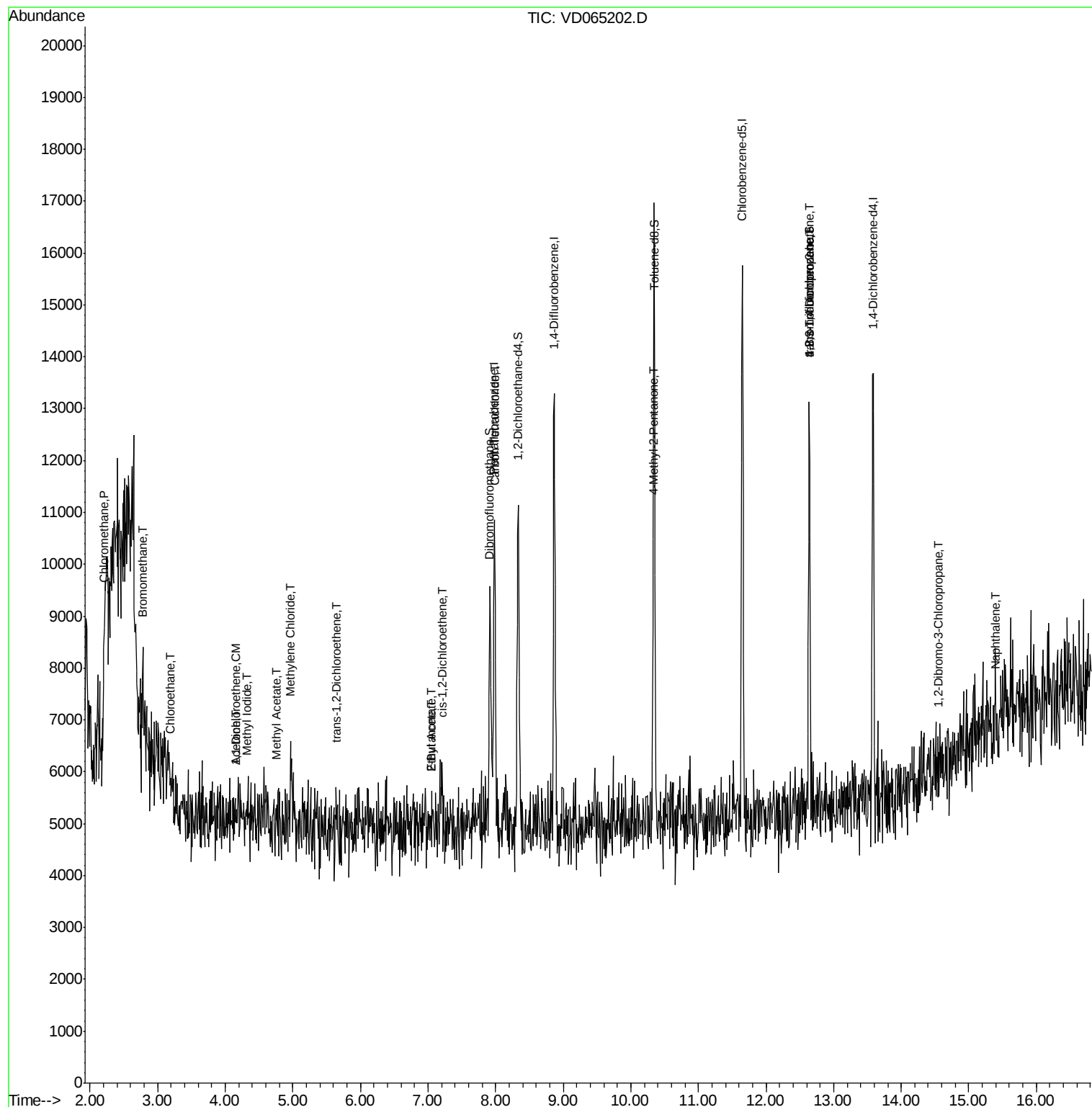
						Qvalue
3) Chloromethane	2.20	50	181	3.911	ug/l #	40
5) Bromomethane	2.79	94	744	23.441	ug/l #	70
6) Chloroethane	3.19	64	57	1.877	ug/l #	44
10) Methyl Iodide	4.32	142	319	6.418	ug/l #	65
12) 1,1-Dichloroethene	4.16	96	58	1.391	ug/l #	1
16) Acetone	4.16	43	78	7.769	ug/l #	45
18) Methyl Acetate	4.76	43	79	3.766	ug/l #	52
20) Methylene Chloride	4.97	84	612	10.750	ug/l #	80
21) trans-1,2-Dichloroethene	5.64	96	57	1.208	ug/l #	1
25) 2-Butanone	7.04	43	54	4.509	ug/l #	50
27) cis-1,2-Dichloroethene	7.21	96	58	1.157	ug/l #	1
37) Ethyl Acetate	7.04	43	54	1.957	ug/l #	69
38) Carbon Tetrachloride	7.99	117	414	6.000	ug/l #	11
51) 4-Methyl-2-Pentanone	10.33	43	56	2.155	ug/l #	37
76) 1,2,3-Trichloropropane	12.63	75	1519	78.219	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	1519	156.432	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.56	75	57	12.602	ug/l #	1
95) Naphthalene	15.40	128	299	3.700	ug/l #	69

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

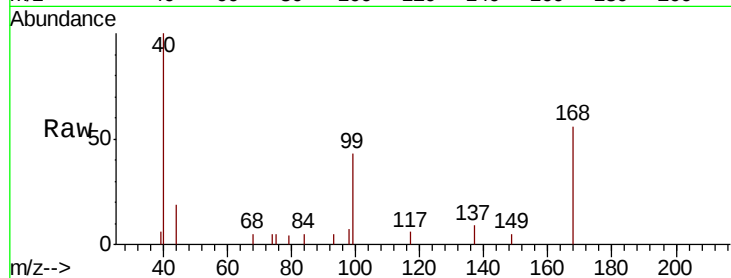
SP-1

Tot Ion:168 Resp: 4725

Ion Ratio Lower Upper

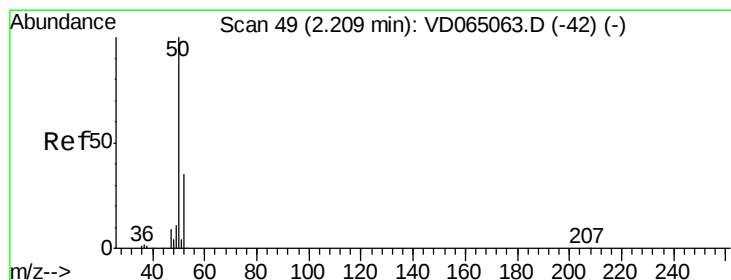
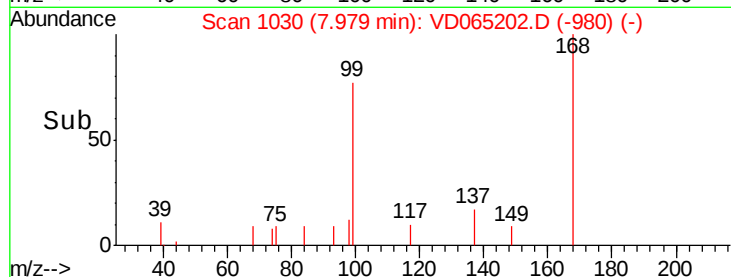
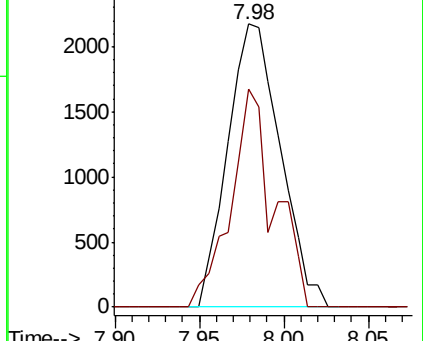
168 100

99 76.9 41.0 61.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 3.911 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD065202.D

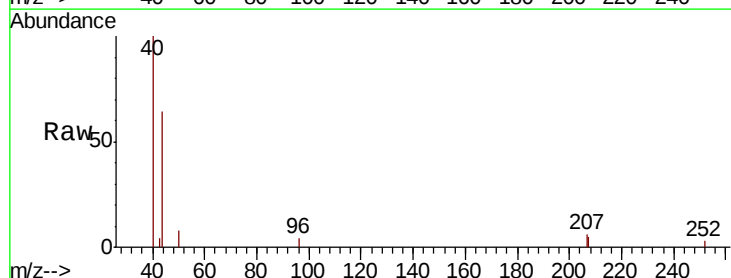
Acq: 17 Feb 2020 17:48

Tgt Ion: 50 Resp: 181

Ion Ratio Lower Upper

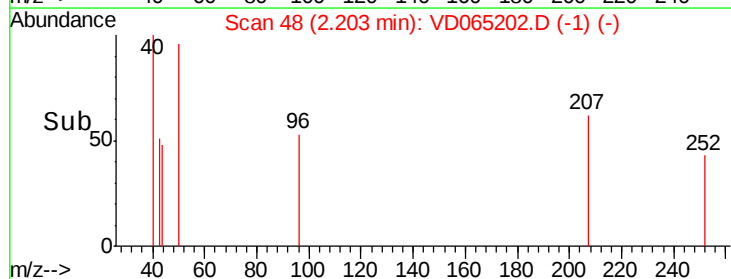
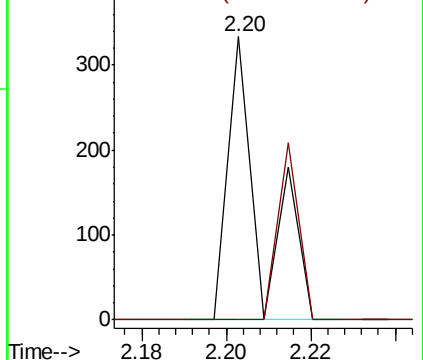
50 100

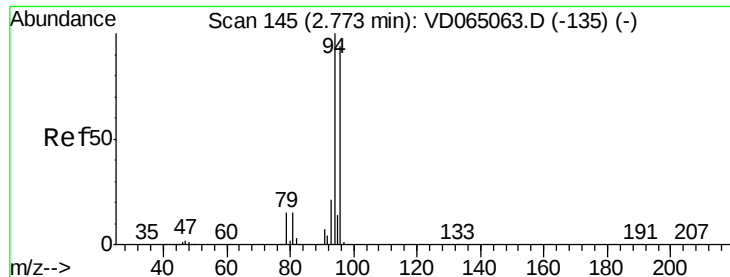
52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 23.441 ug/l

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

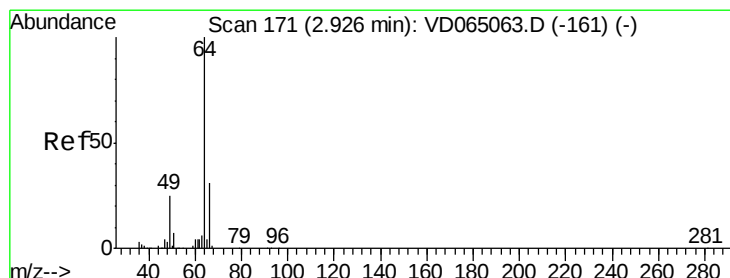
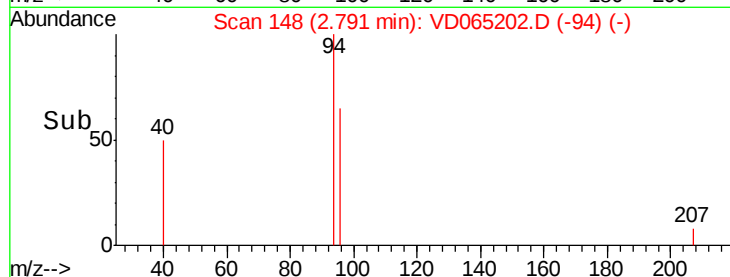
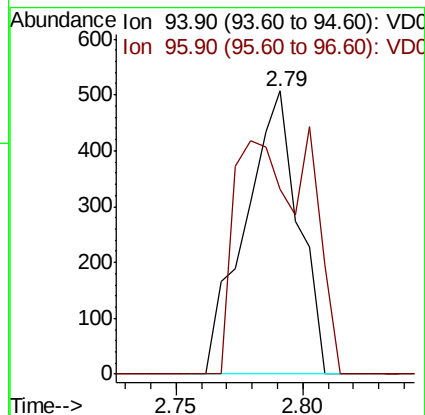
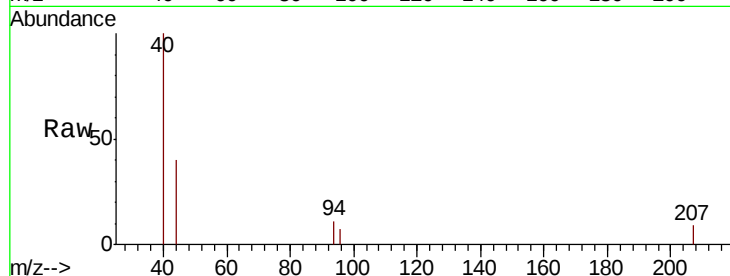
SP-1

Tot Ion: 94 Resp: 744

Ion Ratio Lower Upper

94 100

96 65.1 75.4 113.0#



#6

Chloroethane

Concen: 1.877 ug/l

RT: 3.19 min Scan# 216

Delta R.T. 0.26 min

Lab File: VD065202.D

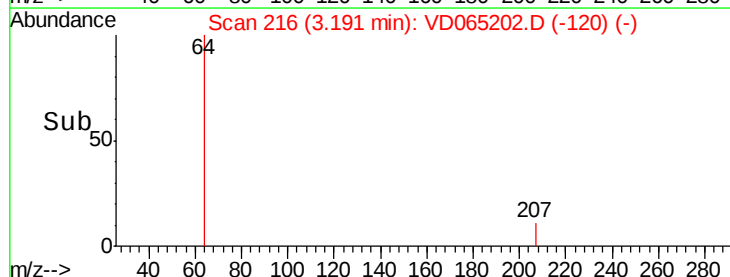
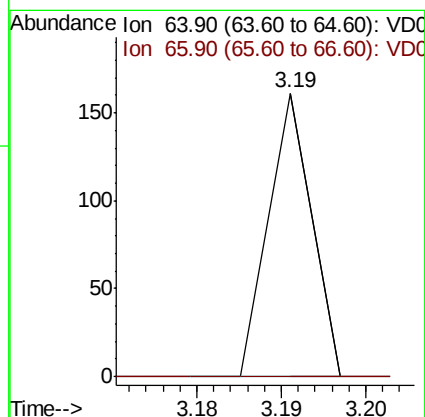
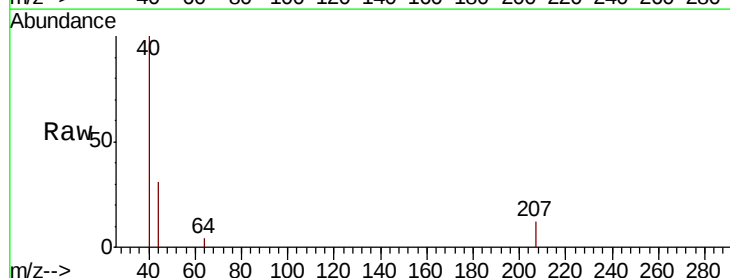
Acq: 17 Feb 2020 17:48

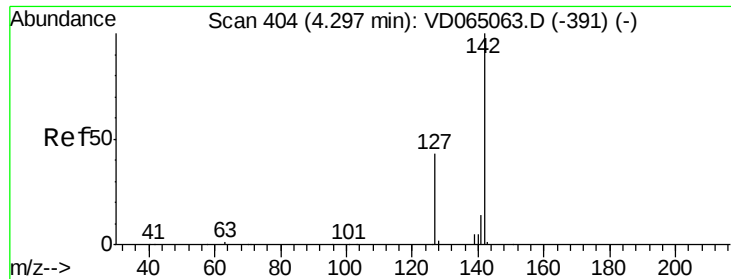
Tgt Ion: 64 Resp: 57

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#

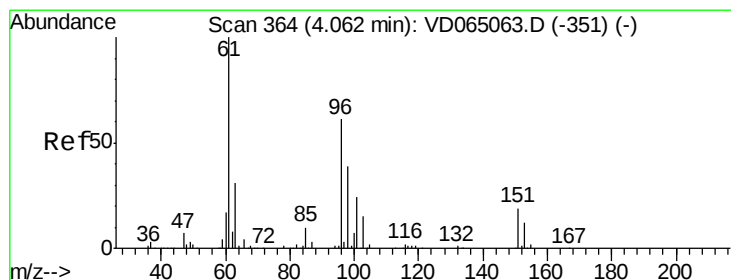
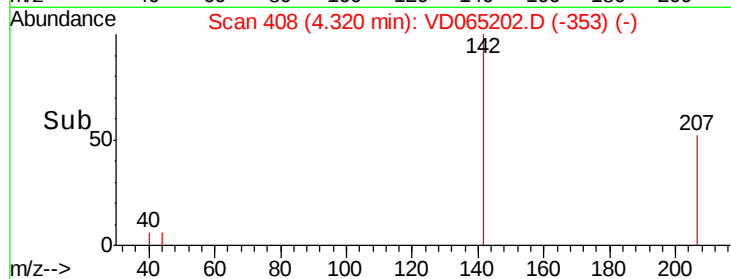
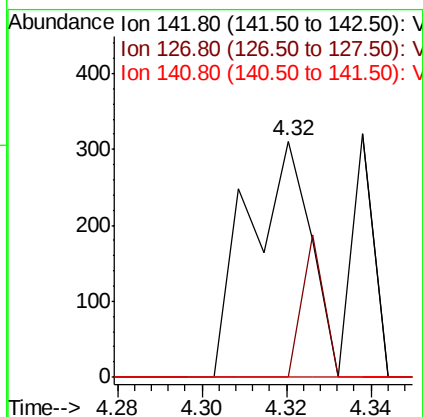
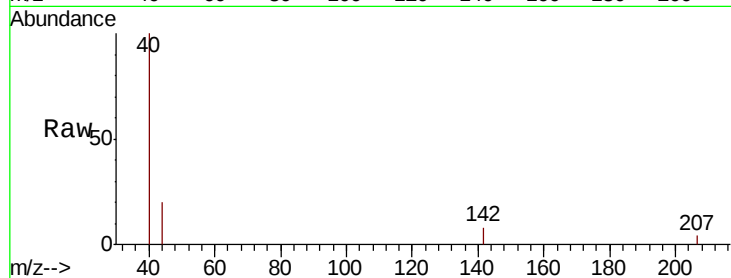




#10
Methvl Iodide
Concen: 6.418 ug/l
RT: 4.32 min Scan# 408
Delta R.T. 0.02 min
Lab File: VD065202.D
Acq: 17 Feb 2020 17:48

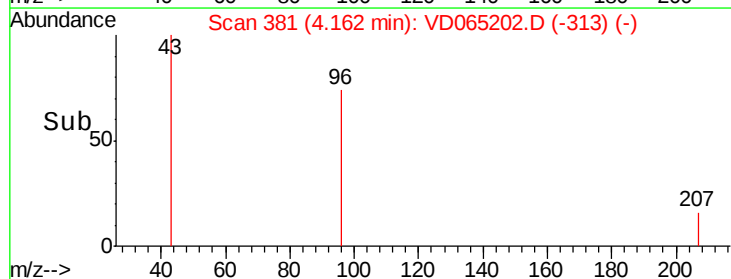
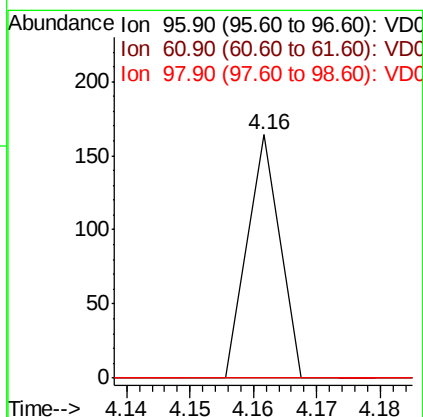
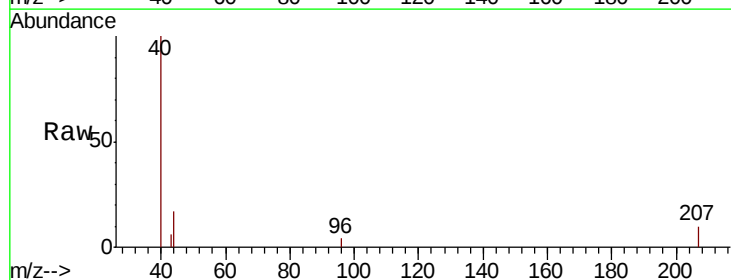
Instrument :
MSVOA_D
ClientSampled :
SP-1

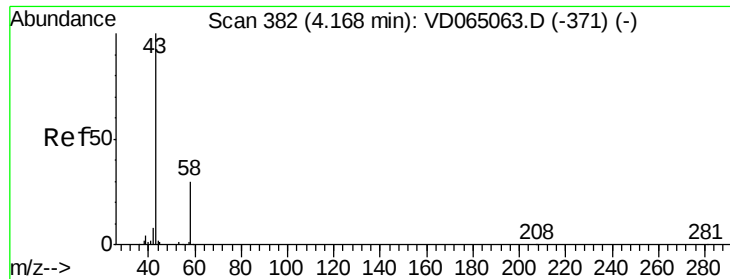
Tot Ion:142 Resp: 319
Ion Ratio Lower Upper
142 100
127 20.7 34.0 51.0#
141 0.0 11.6 17.4#



#12
1,1-Dichloroethene
Concen: 1.391 ug/l
RT: 4.16 min Scan# 381
Delta R.T. 0.10 min
Lab File: VD065202.D
Acq: 17 Feb 2020 17:48

Tgt Ion: 96 Resp: 58
Ion Ratio Lower Upper
96 100
61 0.0 131.4 197.2#
98 0.0 51.1 76.7#





#16

Acetone

Concen: 7.769 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

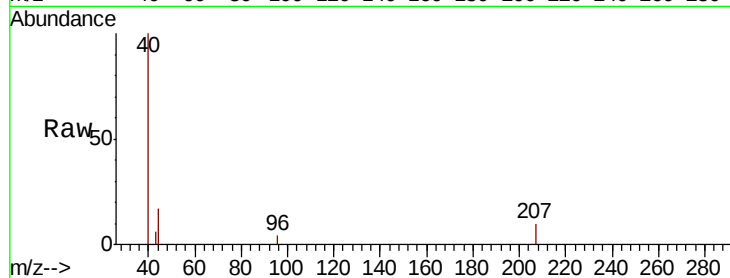
SP-1

Tot Ion: 43 Resp: 78

Ion Ratio Lower Upper

43 100

58 0.0 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

250

200

150

100

50

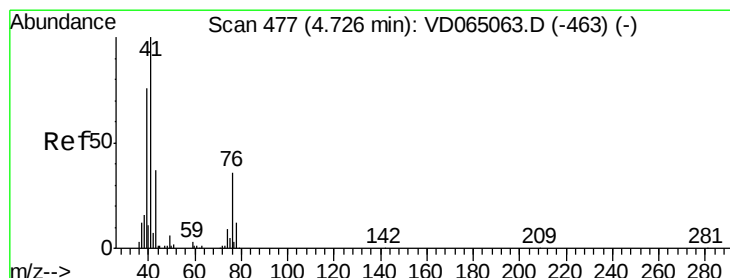
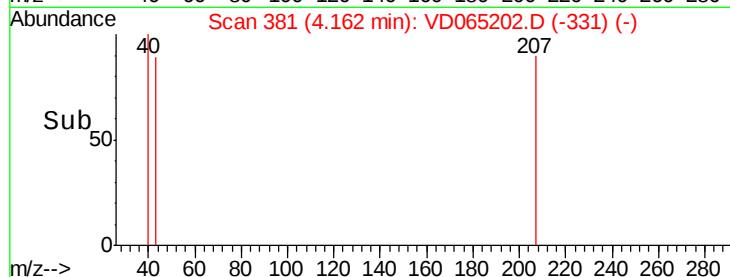
0

4.15

4.16

4.17

Time-->



#18

Methyl Acetate

Concen: 3.766 ug/l

RT: 4.76 min Scan# 483

Delta R.T. 0.04 min

Lab File: VD065202.D

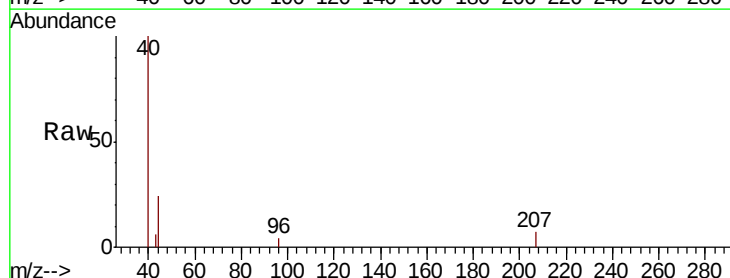
Acq: 17 Feb 2020 17:48

Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

43 100

74 0.0 18.7 28.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

250

200

150

100

50

0

4.74

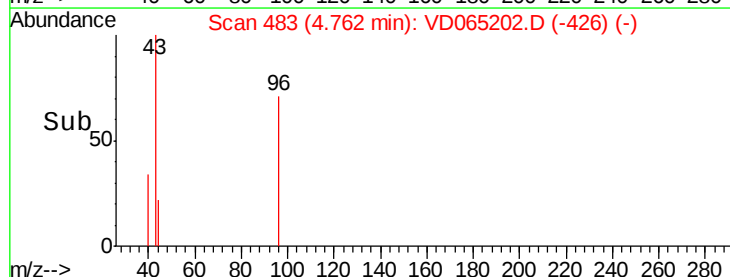
4.75

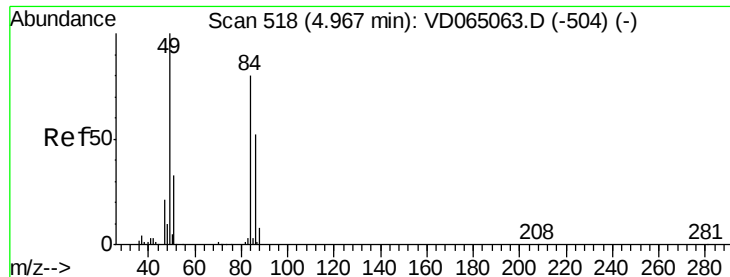
4.76

4.77

4.78

Time-->





#20

Methylene Chloride

Concen: 10.750 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

SP-1

Tot Ion: 84 Resp: 612

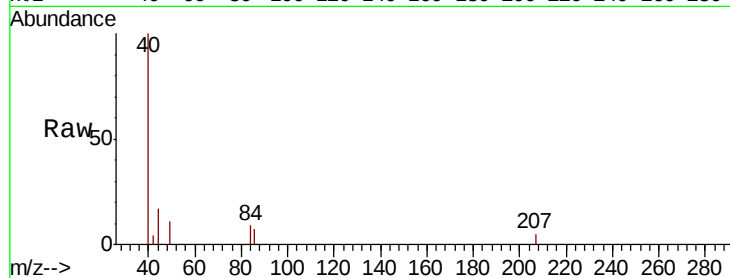
Ion Ratio Lower Upper

84 100

49 120.6 100.4 150.6

51 0.0 32.7 49.1#

86 82.0 52.4 78.6#

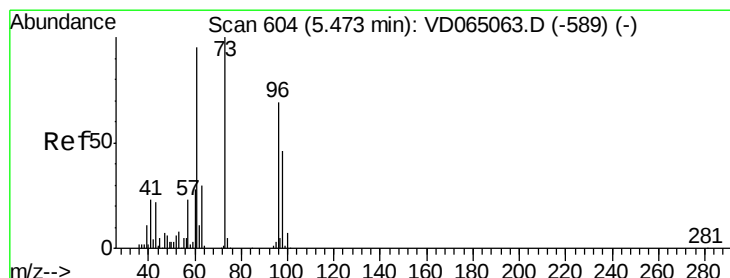
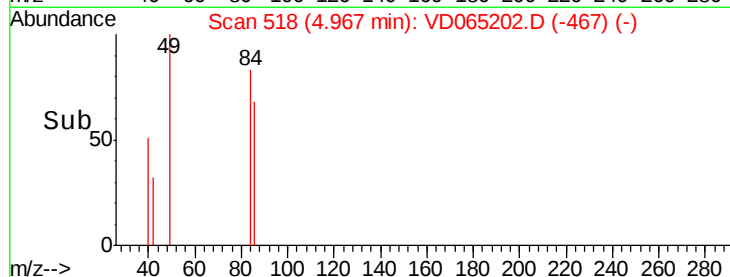
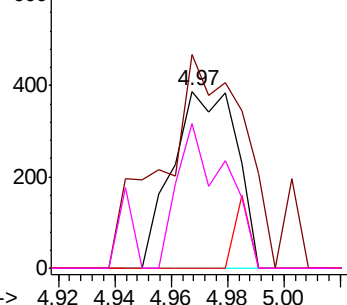


Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#21

trans-1,2-Dichloroethene

Concen: 1.208 ug/l

RT: 5.64 min Scan# 633

Delta R.T. 0.17 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

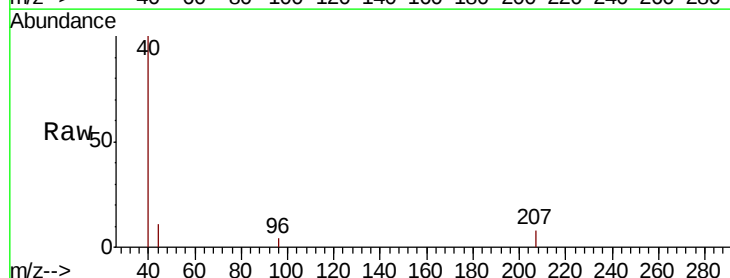
Tgt Ion: 96 Resp: 57

Ion Ratio Lower Upper

96 100

61 0.0 109.5 164.3#

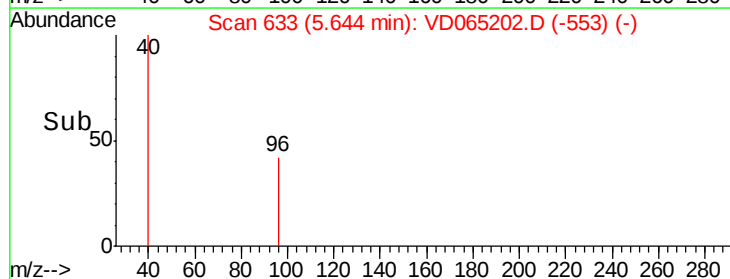
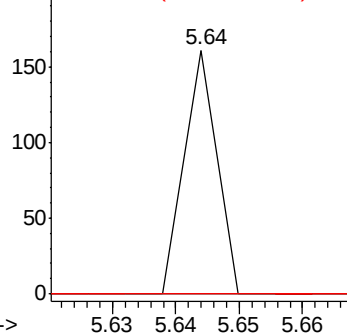
98 0.0 53.7 80.5#

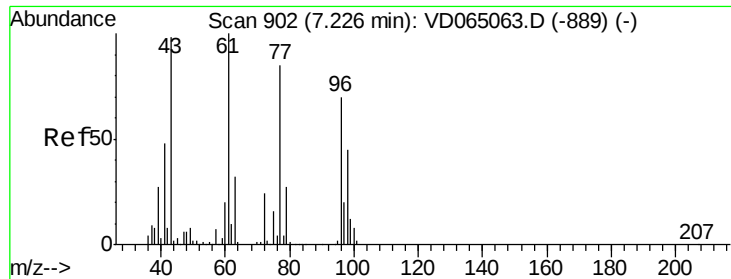


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#25

2-Butanone

Concen: 4.509 ug/l

RT: 7.04 min Scan# 871

Delta R.T. -0.18 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

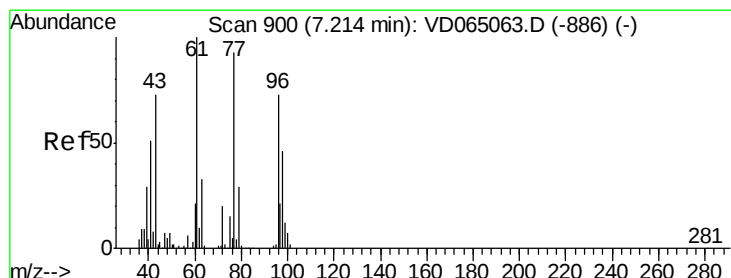
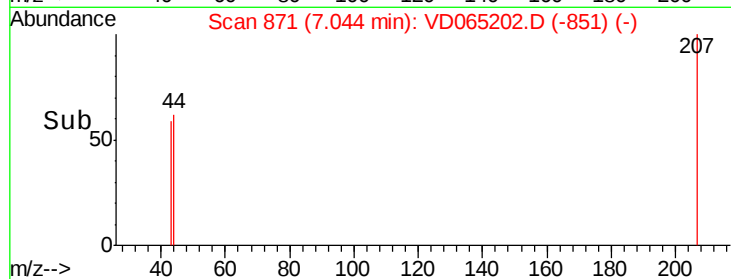
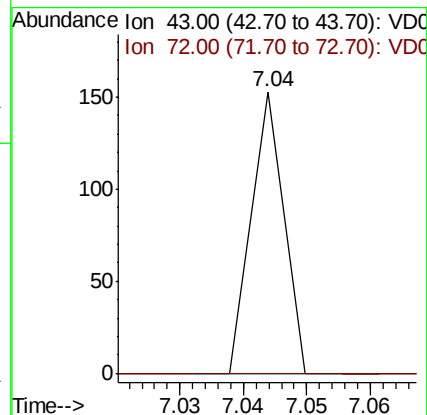
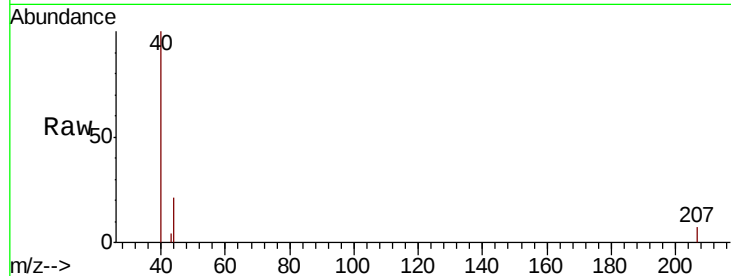
SP-1

Tot Ion: 43 Resp: 54

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



#27

cis-1,2-Dichloroethene

Concen: 1.157 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

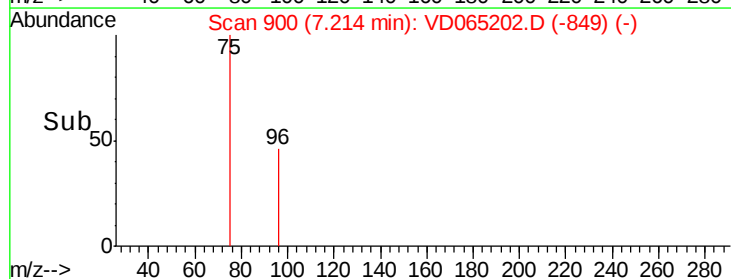
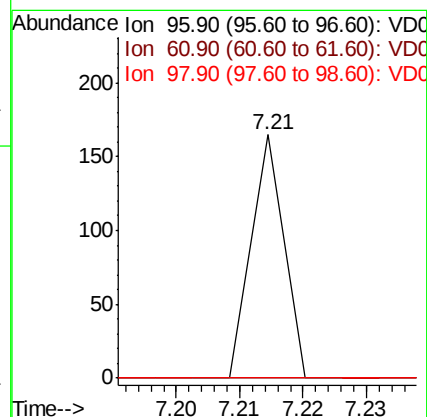
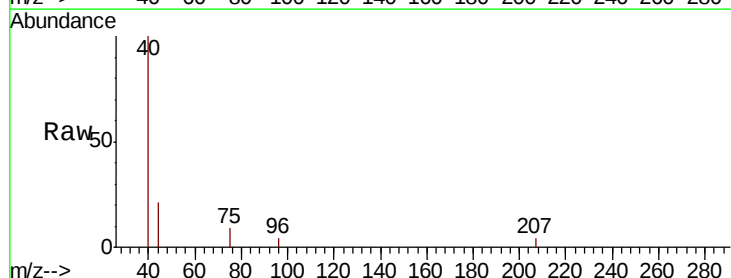
Tgt Ion: 96 Resp: 58

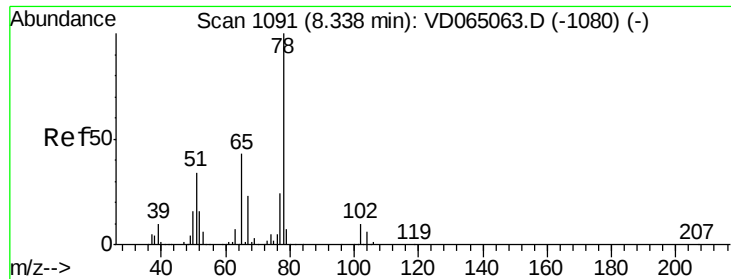
Ion Ratio Lower Upper

96 100

61 0.0 0.0 292.8

98 0.0 0.0 128.8

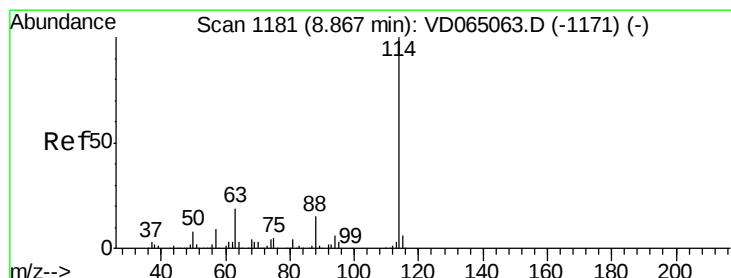
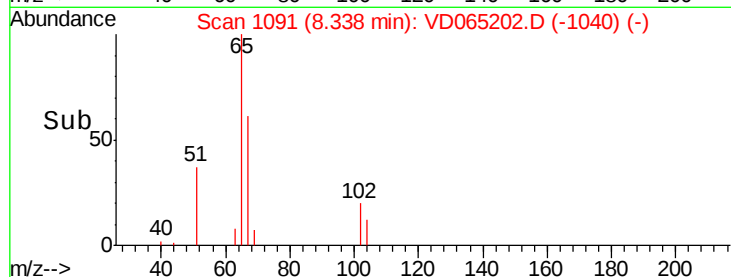
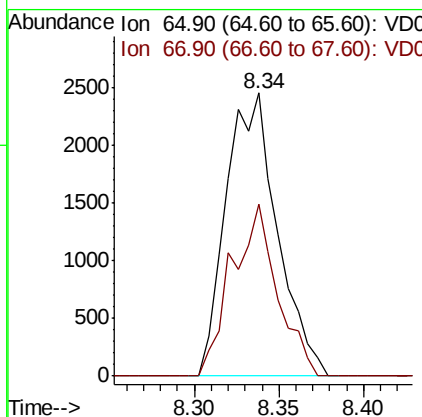
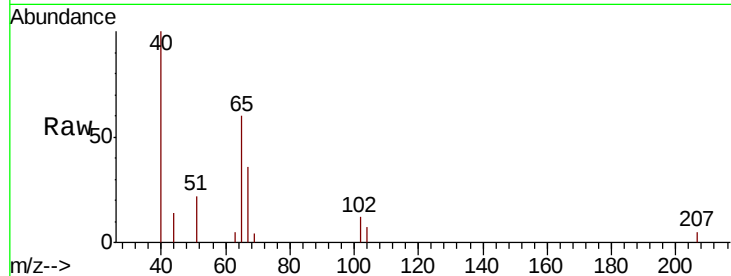




#33
 1,2-Dichloroethane-d4
 Concen: 128.865 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD065202.D
 Acq: 17 Feb 2020 17:48

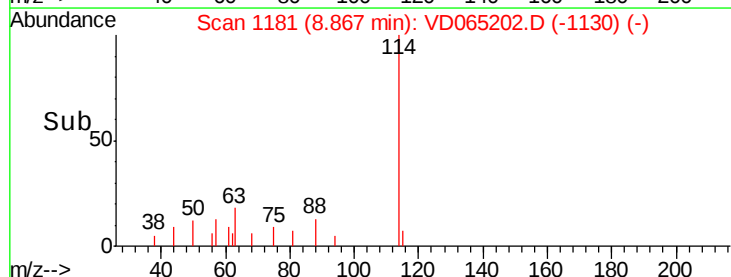
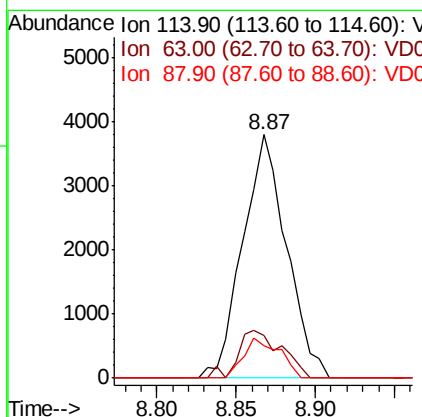
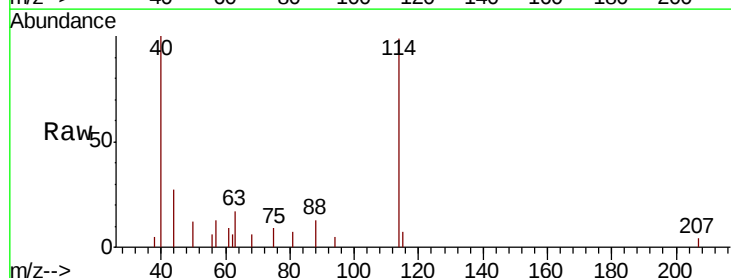
Instrument :
 MSVOA_D
 ClientSampled :
 SP-1

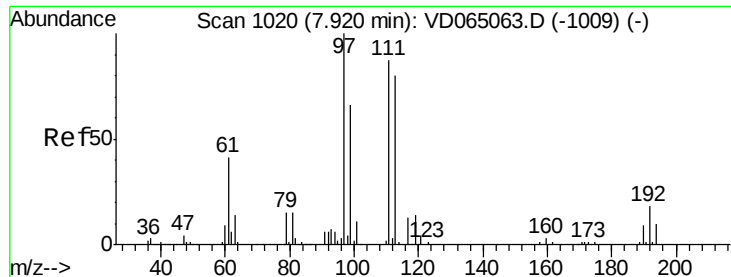
Tot Ion: 65 Resp: 5175
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065202.D
 Acq: 17 Feb 2020 17:48

Tgt Ion:114 Resp: 7265
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 38.8
 88 13.1 0.0 29.6

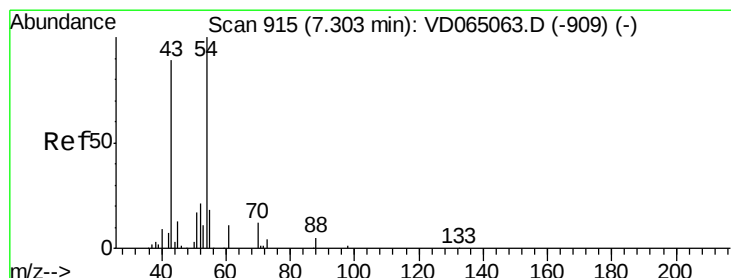
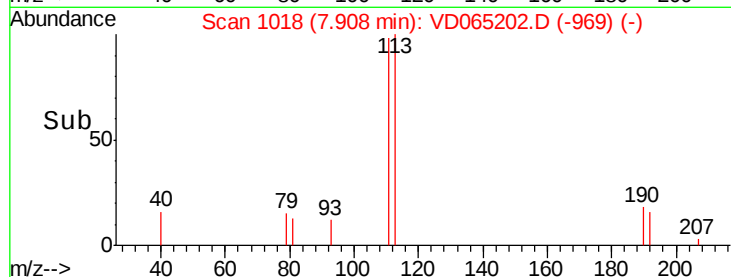
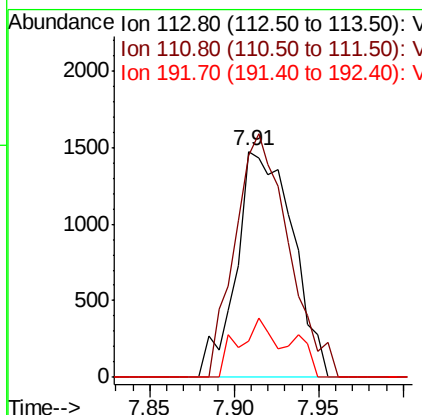
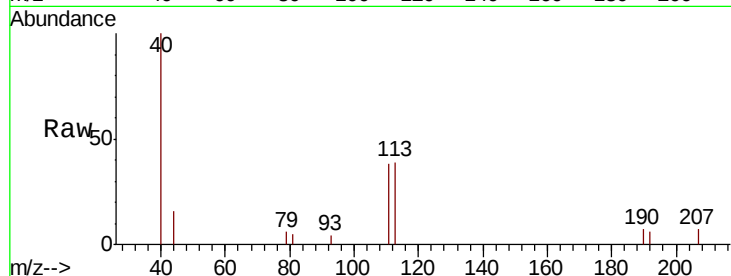




#35
 Dibromofluoromethane
 Concen: 84.472 ug/l
 RT: 7.91 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: VD065202.D
 Acq: 17 Feb 2020 17:48

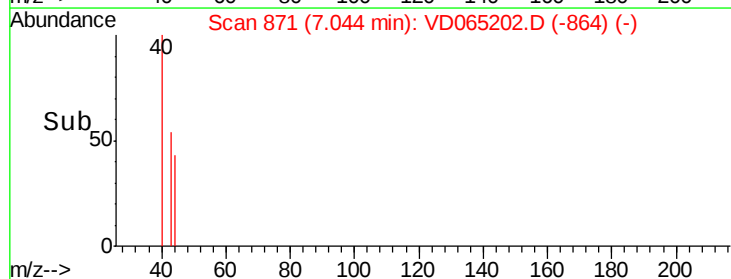
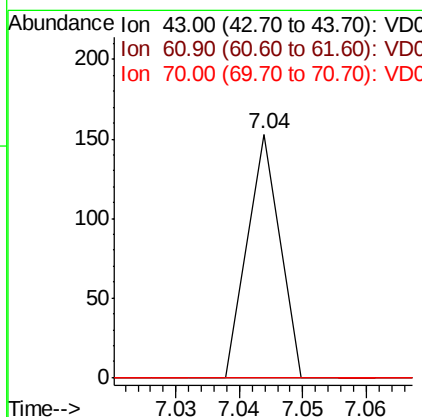
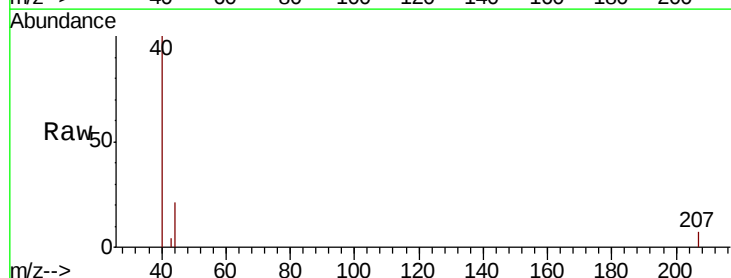
Instrument :
 MSVOA_D
 ClientSampleId :
 SP-1

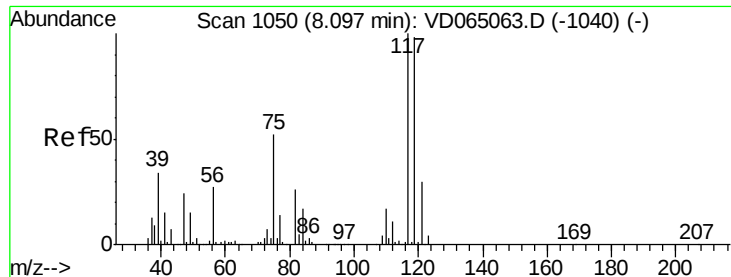
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.1	124.7
192	16.3	18.1	27.1#



#37
 Ethyl Acetate
 Concen: 1.957 ug/l
 RT: 7.04 min Scan# 871
 Delta R.T. -0.26 min
 Lab File: VD065202.D
 Acq: 17 Feb 2020 17:48

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	0.0	8.2	12.2#





#38

Carbon Tetrachloride

Concen: 6.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

SP-1

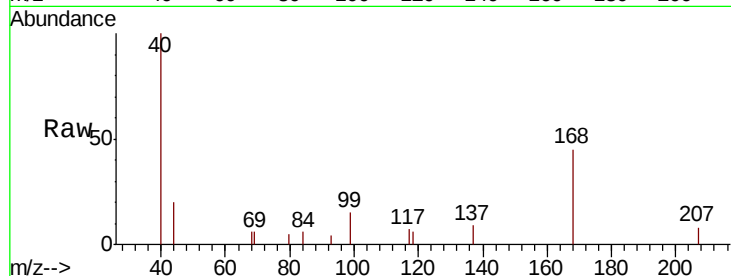
Tot Ion:117 Resp: 414

Ion Ratio Lower Upper

117 100

119 0.0 78.5 117.7#

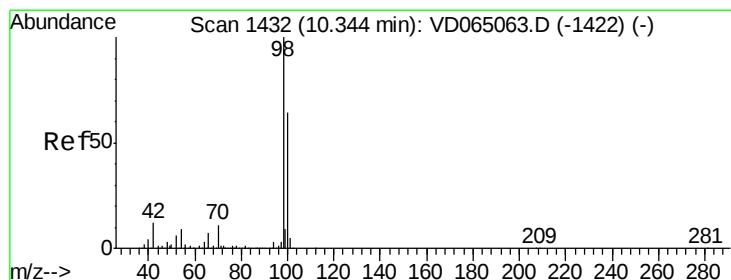
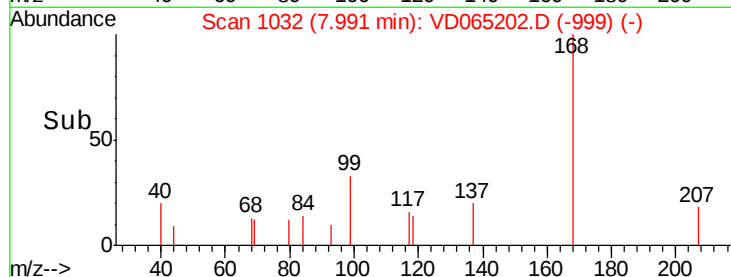
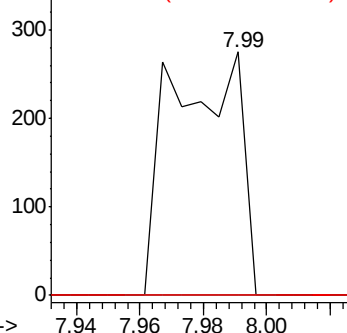
121 0.0 23.8 35.6#



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: 52.009 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VD065202.D

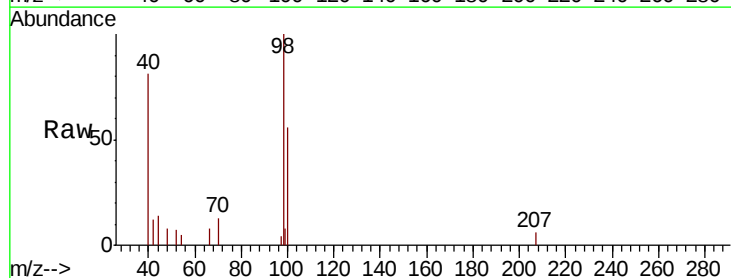
Acq: 17 Feb 2020 17:48

Tgt Ion: 98 Resp: 8391

Ion Ratio Lower Upper

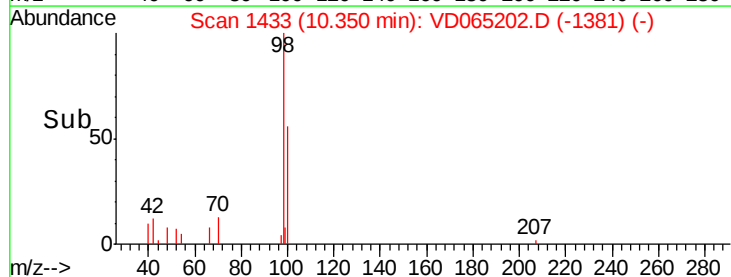
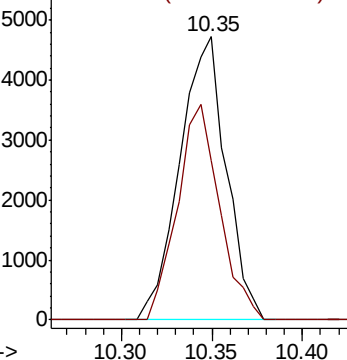
98 100

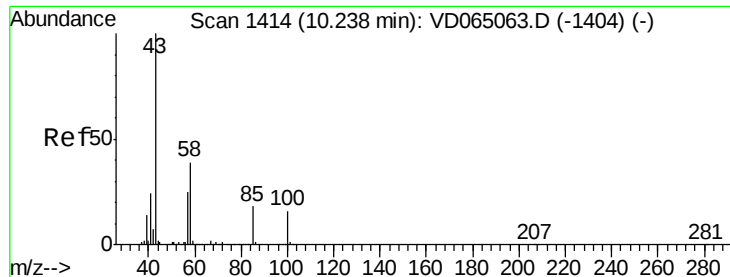
100 69.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 2.155 ug/l

RT: 10.33 min Scan# 1429

Delta R.T. 0.09 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

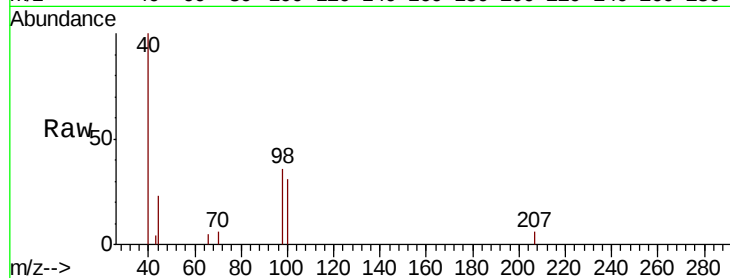
SP-1

Tot Ion: 43 Resp: 56

Ion Ratio Lower Upper

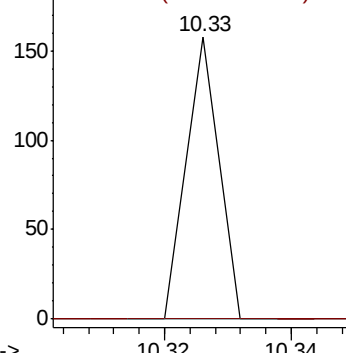
43 100

58 0.0 30.2 45.2#

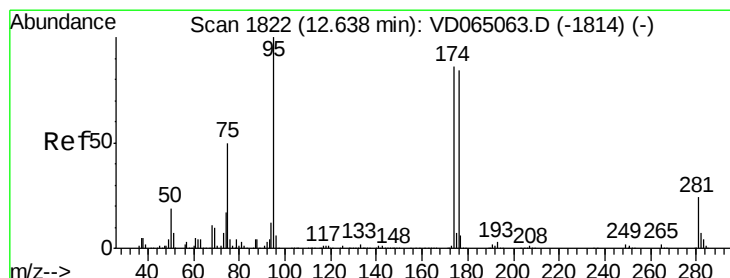
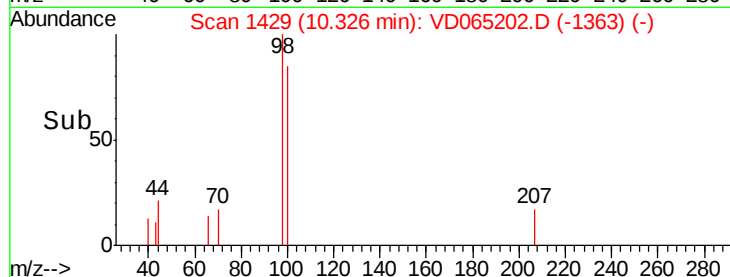


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



Time-->



#62

4-Bromofluorobenzene

Concen: 54.536 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

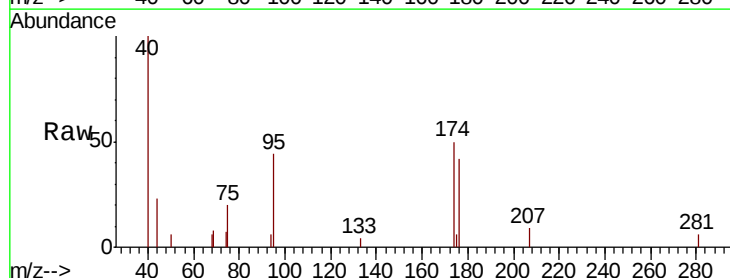
Tgt Ion: 95 Resp: 2788

Ion Ratio Lower Upper

95 100

174 90.6 0.0 180.0

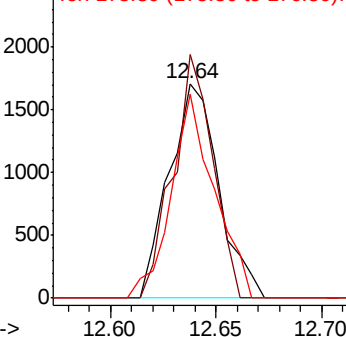
176 82.4 0.0 173.2



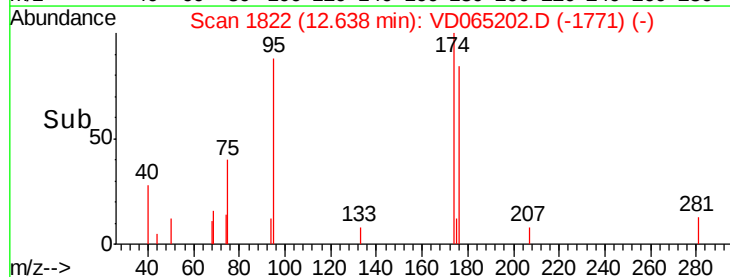
Abundance Ion 94.90 (94.60 to 95.60): VDC

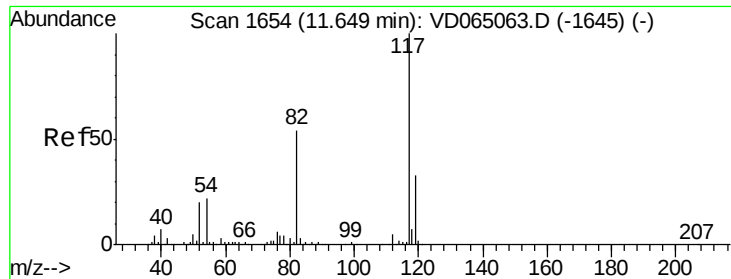
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

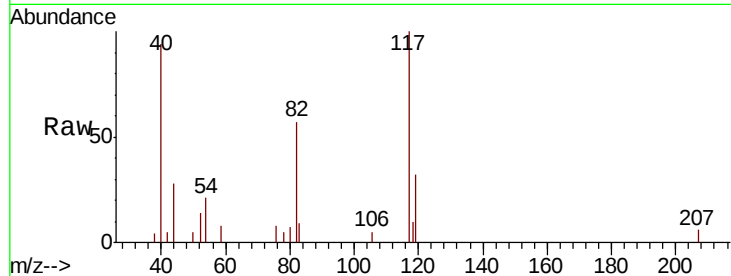




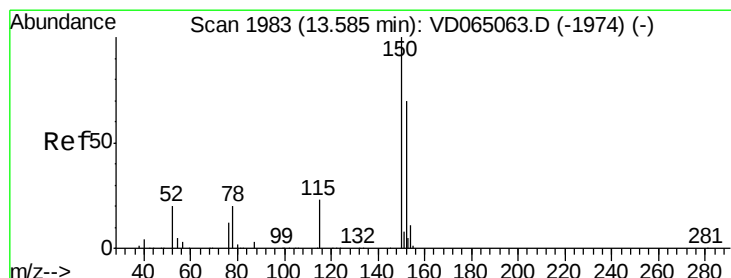
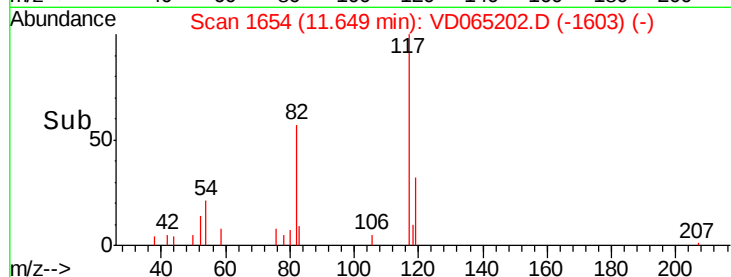
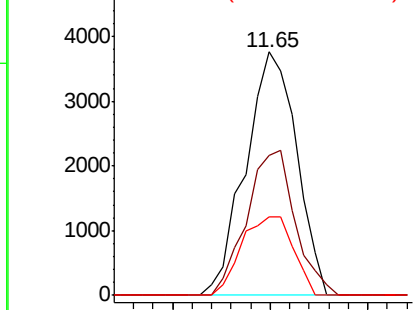
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065202.D
Acq: 17 Feb 2020 17:48

Instrument :
MSVOA_D
ClientSampleID :
SP-1

Tot Ion:117 Resp: 6804
Ion Ratio Lower Upper
117 100
82 57.5 43.1 64.7
119 32.0 26.0 39.0

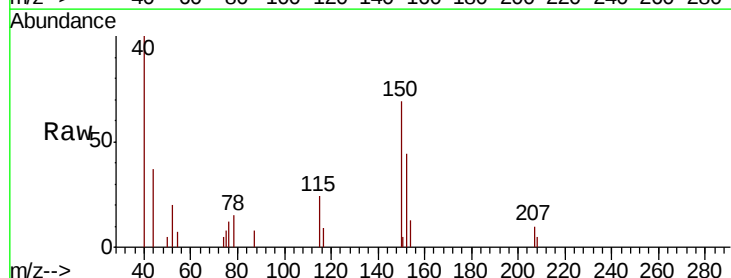


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

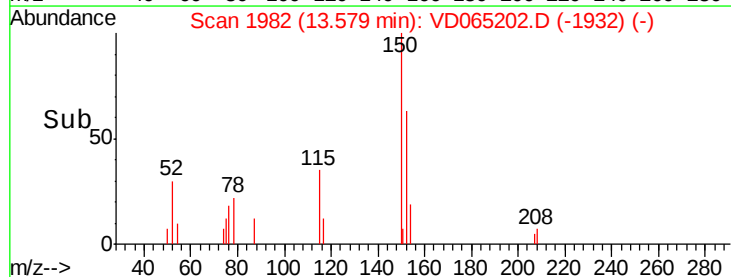
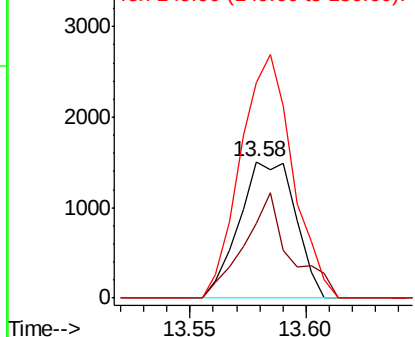


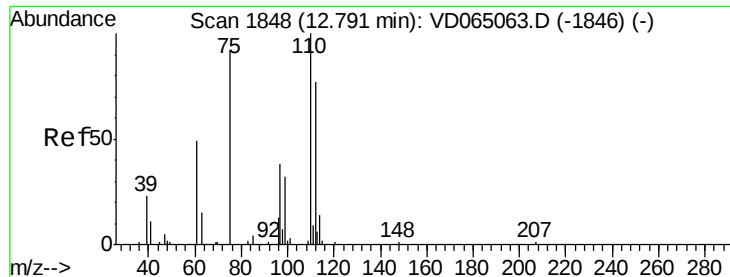
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD065202.D
Acq: 17 Feb 2020 17:48

Tgt Ion:152 Resp: 2565
Ion Ratio Lower Upper
152 100
115 62.7 27.5 82.4
150 164.7 0.0 343.2



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: 78.219 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampled :

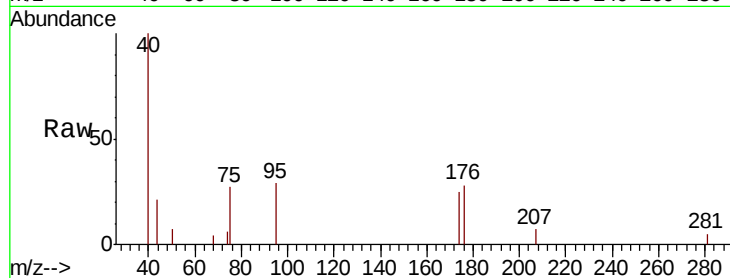
SP-1

Tot Ion: 75 Resp: 1519

Ion Ratio Lower Upper

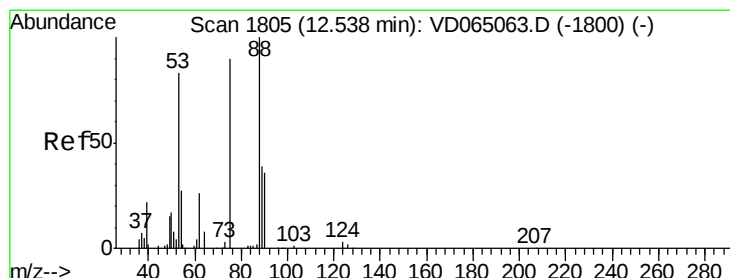
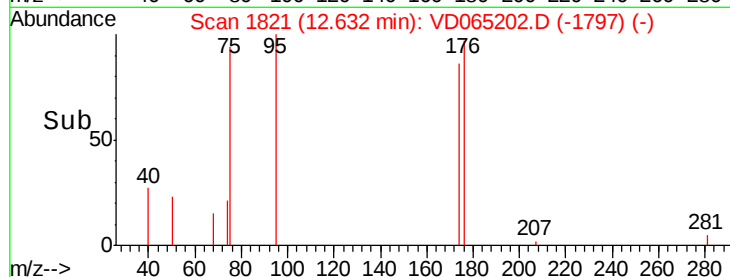
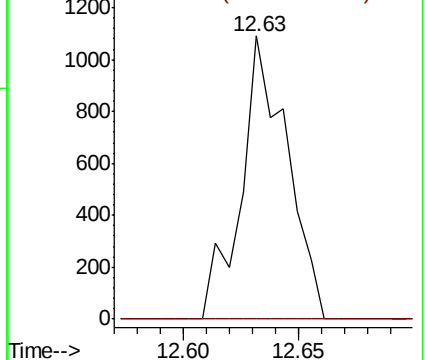
75 100

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: 156.432 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.09 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

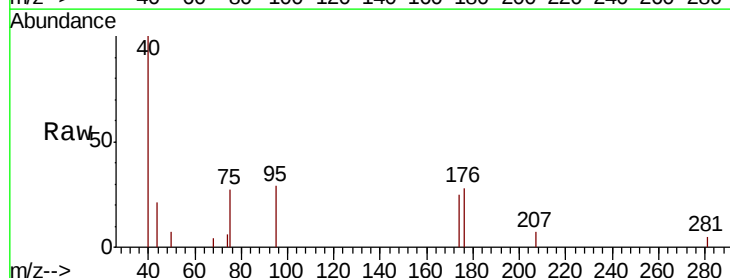
Tgt Ion: 75 Resp: 1519

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

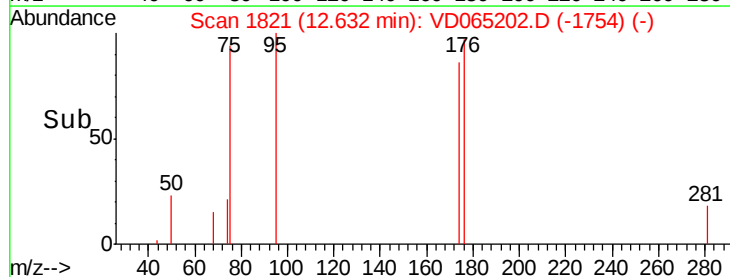
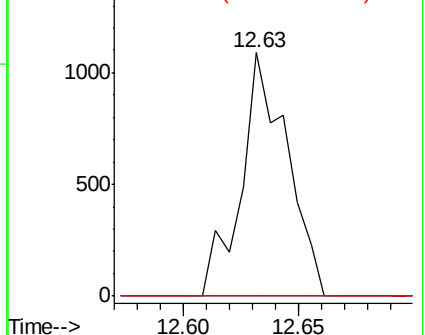
89 0.0 37.0 55.4#

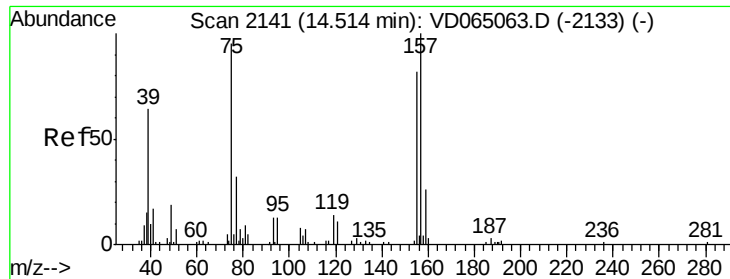


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 12.602 ug/l

RT: 14.56 min Scan# 2148

Delta R.T. 0.04 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

SP-1

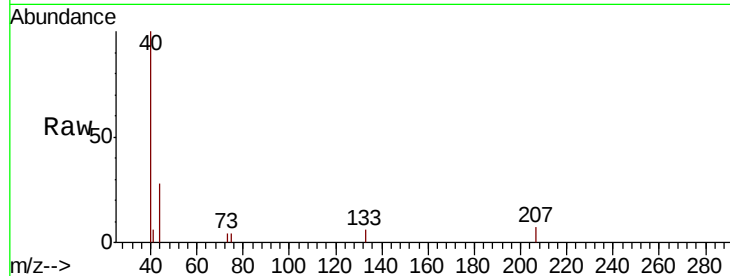
Tot Ion: 75 Resp: 57

Ion Ratio Lower Upper

75 100

155 0.0 43.4 130.1#

157 0.0 55.8 167.3#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.56

150

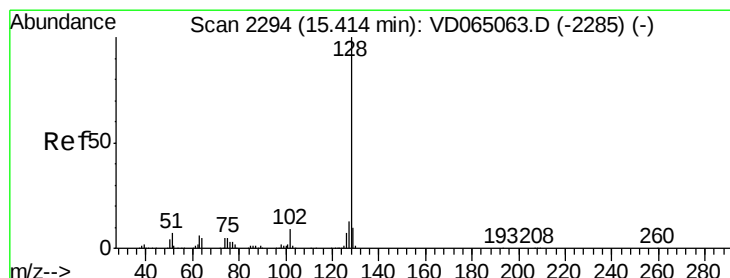
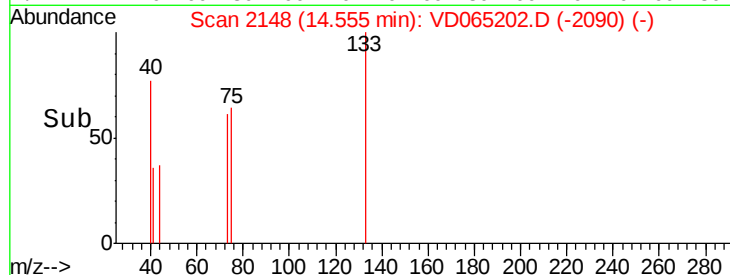
100

50

0

14.54 14.56

Time-->



#95

Naphthalene

Concen: 3.700 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD065202.D

Acq: 17 Feb 2020 17:48

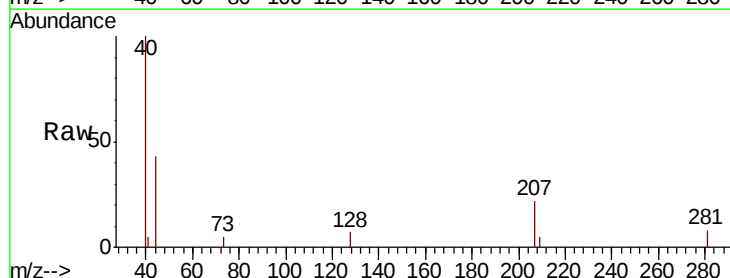
Tgt Ion: 128 Resp: 299

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.40

300

200

100

0

15.38 15.40 15.42 15.44

Time-->

