

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102319\
 Data File : VD064031.D
 Acq On : 23 Oct 2019 20:05
 Operator : VA/SY
 Sample : K5498-18
 Misc : 4.56G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 24 06:00:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	130790	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	253059	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	277579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	121575	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	77869	61.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	122.30%	
35) Dibromofluoromethane	7.92	113	81031	52.40	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.80%	
50) Toluene-d8	10.34	98	364980	58.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	116.28%	
62) 4-Bromofluorobenzene	12.64	95	108771	49.87	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.74%	

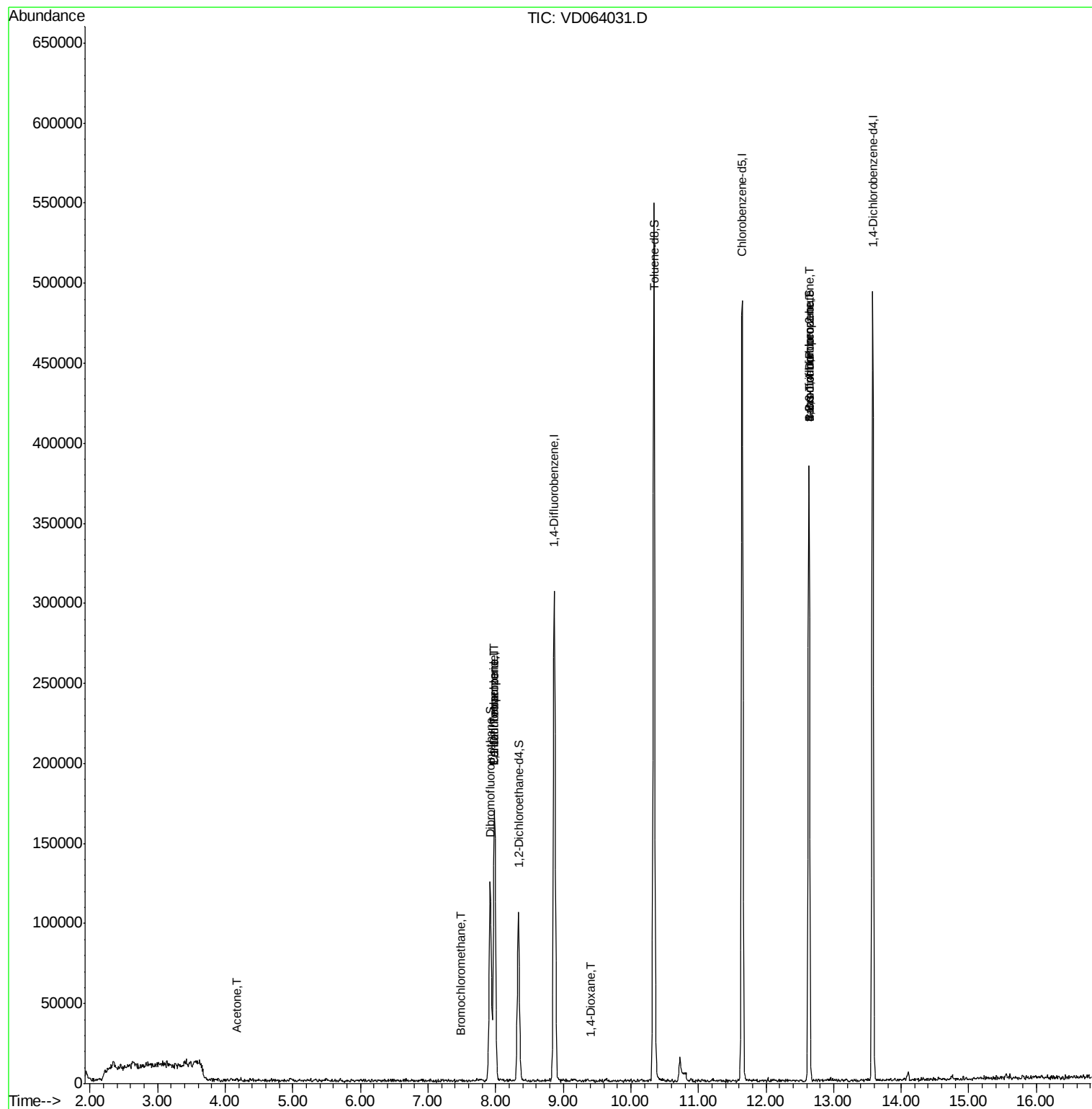
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	254	Below Cal	#	40
11) Tert butyl alcohol	5.21	59	146	Below Cal	#	71
16) Acetone	4.17	43	343	1.035	ug/l #	42
20) Methylene Chloride	4.96	84	217	Below Cal	#	38
28) Bromochloromethane	7.49	49	55	1.925	ug/l #	10
31) Cyclohexane	7.99	56	3104	Below Cal	#	34
36) 1,1-Dichloropropene	7.98	75	10937	4.727	ug/l #	46
37) Ethyl Acetate	7.26	43	56	Below Cal	#	1
38) Carbon Tetrachloride	7.99	117	12056	5.156	ug/l #	22
49) 1,4-Dioxane	9.40	88	64	5.073	ug/l #	6
71) Bromoform	12.63	173	1754	1.591	ug/l #	28
76) 1,2,3-Trichloropropane	12.63	75	58970	72.420	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	58970	128.155	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.50	75	76	Below Cal	#	1

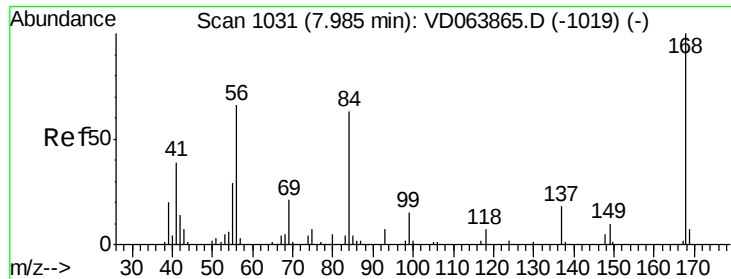
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 05 03:51:17 2019
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: VD064031.D

Acq: 23 Oct 2019 20:05

Instrument :

MSVOA_D

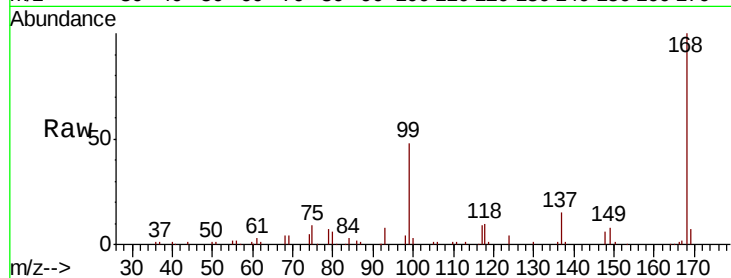
ClientSampleId :

Tot Ion:168 Resp: 130790

Ion Ratio Lower Upper

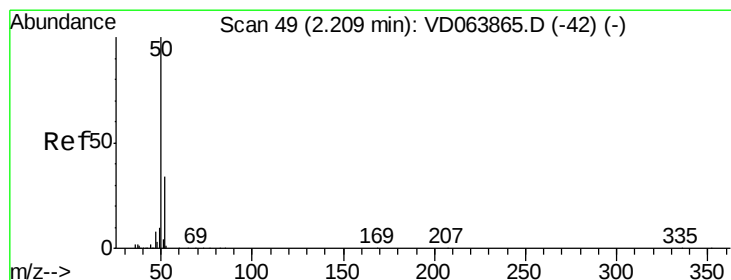
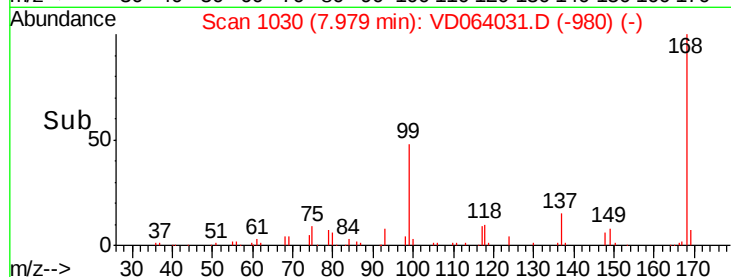
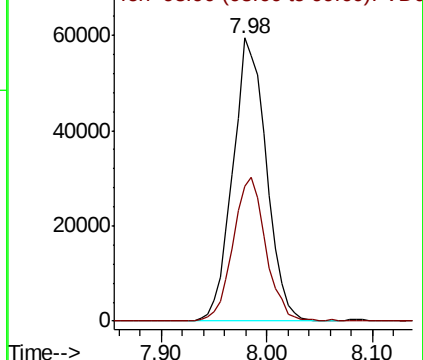
168 100

99 47.8 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD064031.D

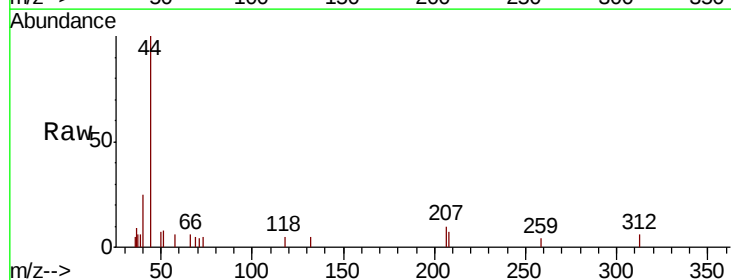
Acq: 23 Oct 2019 20:05

Tgt Ion: 50 Resp: 254

Ion Ratio Lower Upper

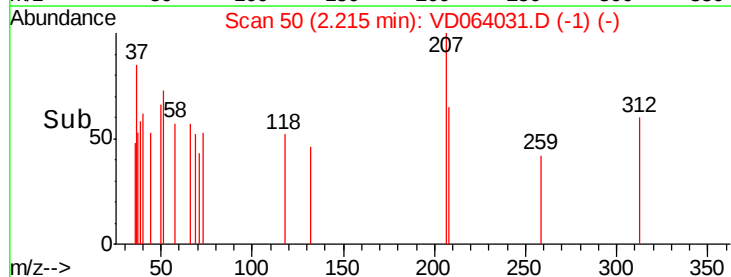
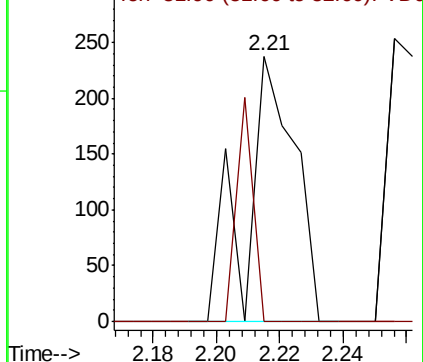
50 100

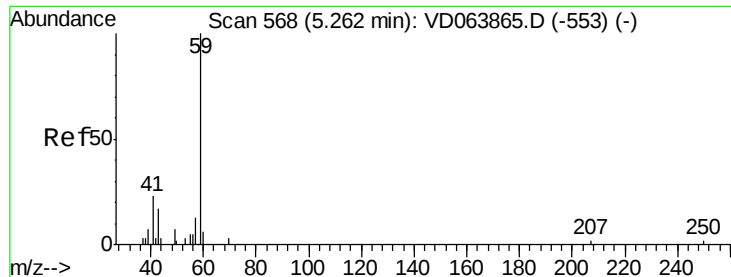
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



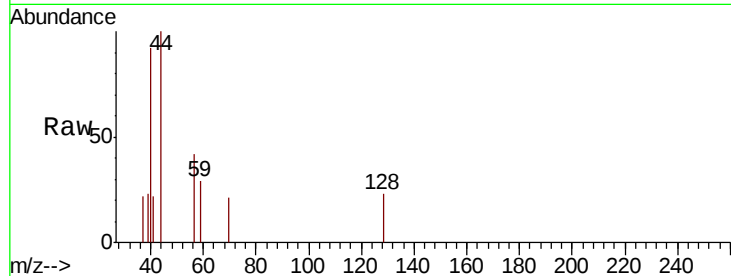


#11

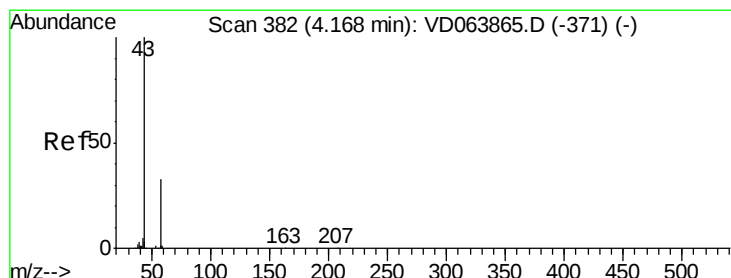
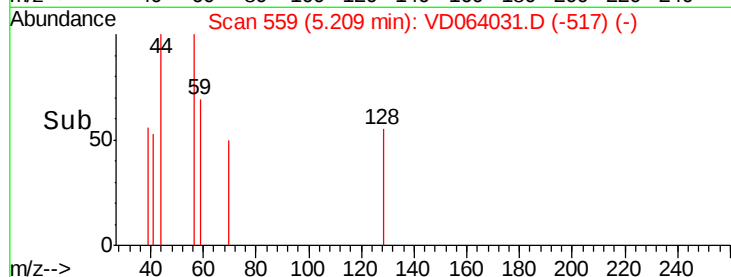
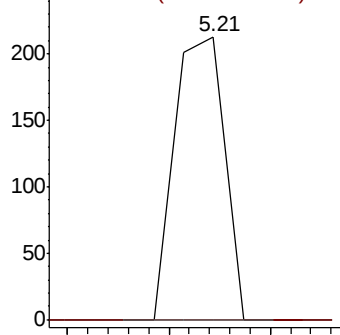
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.21 min Scan# 559
 Delta R.T. -0.05 min
 Lab File: VD064031.D
 Acq: 23 Oct 2019 20:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 146
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#



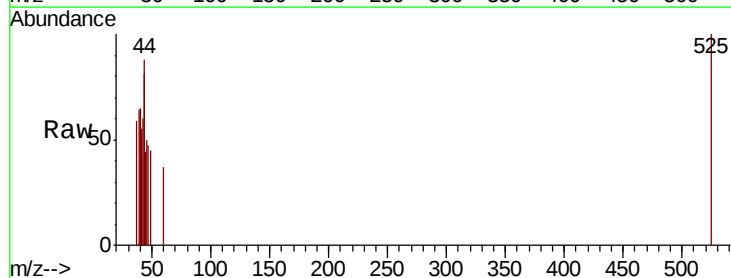
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



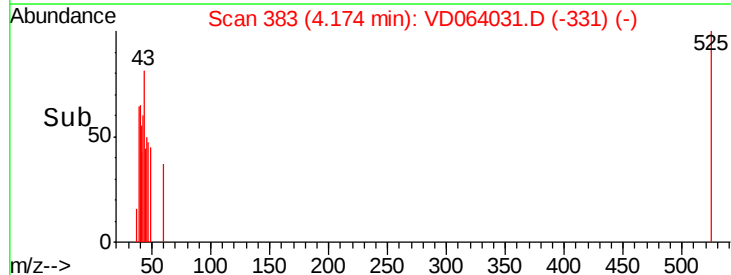
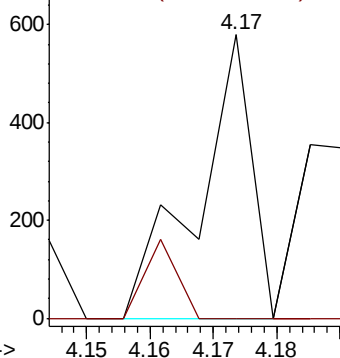
#16

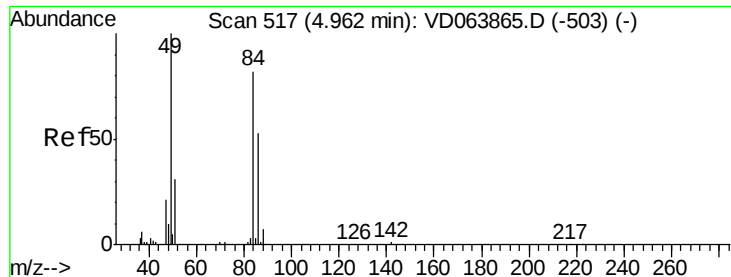
Acetone
 Concen: 1.035 ug/l
 RT: 4.17 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VD064031.D
 Acq: 23 Oct 2019 20:05

Tgt Ion: 43 Resp: 343
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

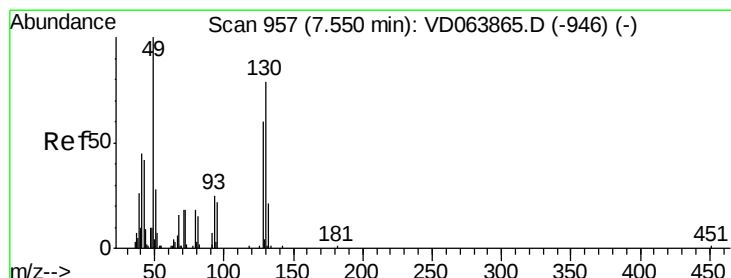
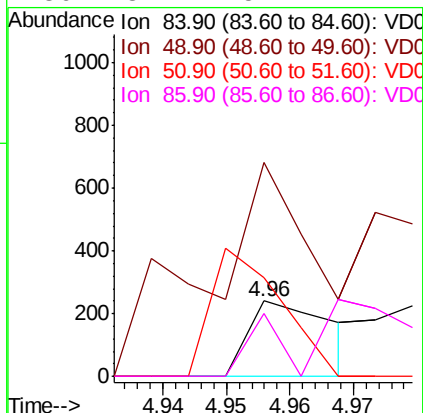
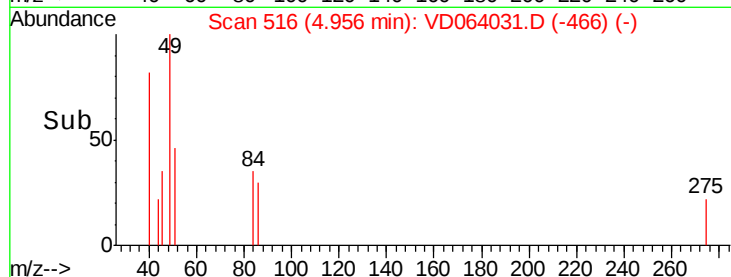
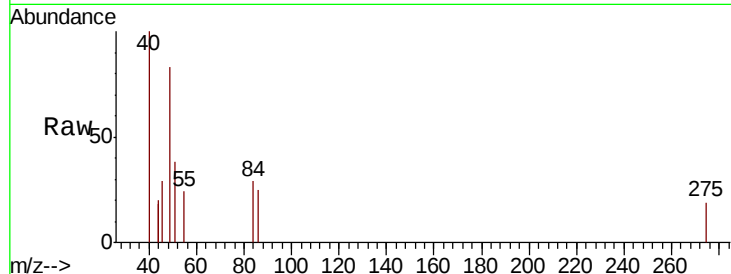




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064031.D
Acq: 23 Oct 2019 20:05

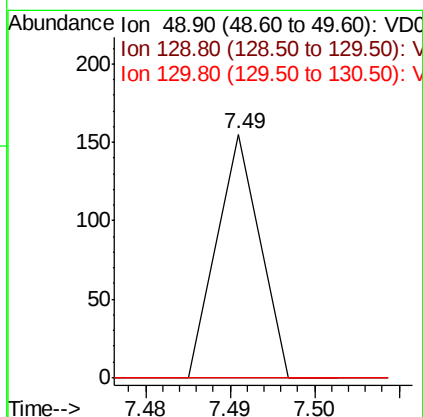
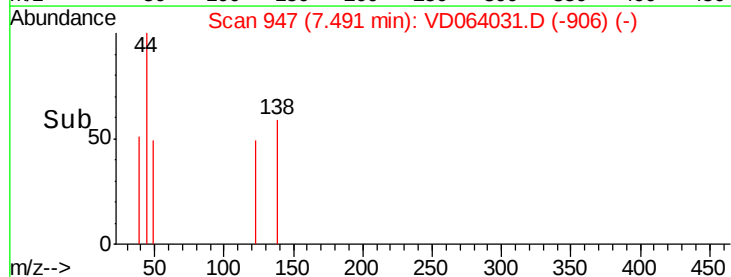
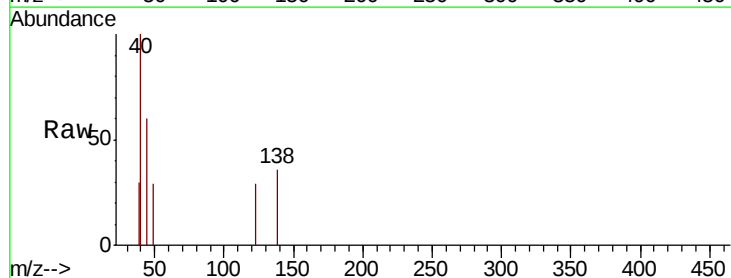
Instrument :
MSVOA_D
ClientSampleId :

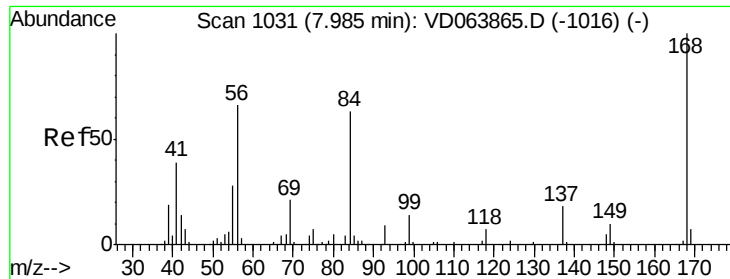
Tot Ion: 84 Resp: 217
Ion Ratio Lower Upper
84 100
49 181.7 97.3 145.9#
51 130.4 30.1 45.1#
86 84.2 51.4 77.2#



#28
Bromochloromethane
Concen: 1.925 ug/l
RT: 7.49 min Scan# 947
Delta R.T. -0.06 min
Lab File: VD064031.D
Acq: 23 Oct 2019 20:05

Tgt Ion: 49 Resp: 55
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 0.0 66.8 100.2#

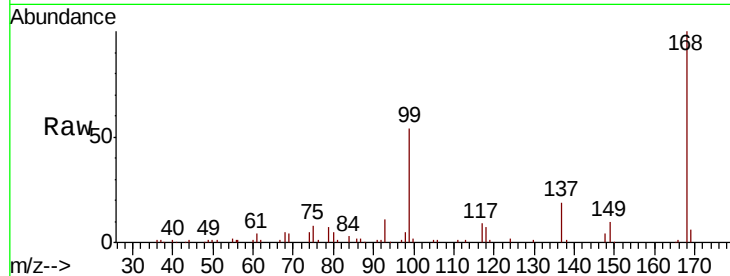




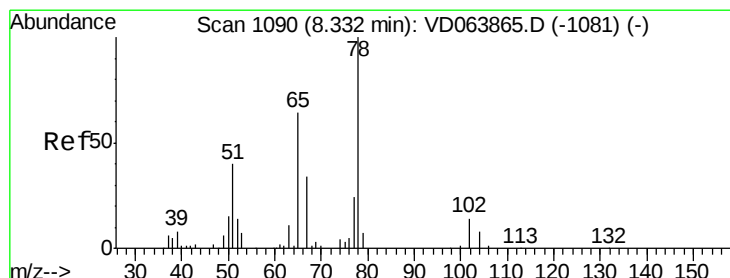
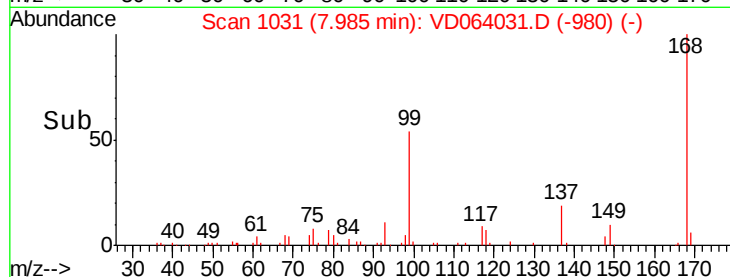
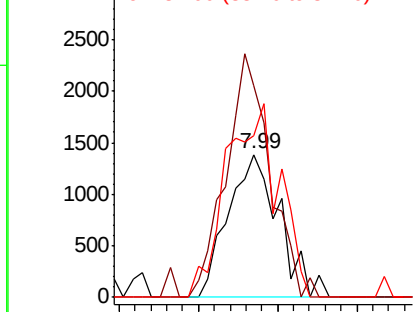
#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064031.D
Acq: 23 Oct 2019 20:05

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 3104
Ion Ratio Lower Upper
56 100
69 148.6 25.0 37.4#
84 113.4 76.3 114.5

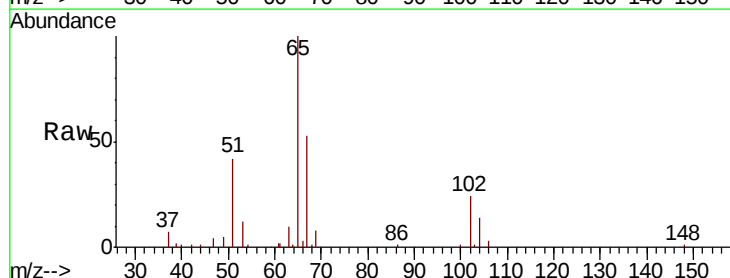


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

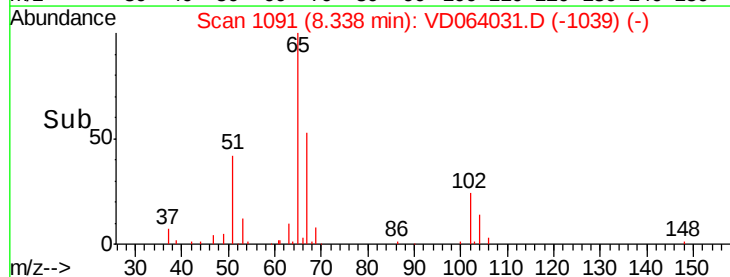
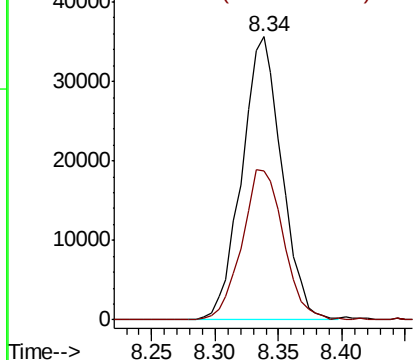


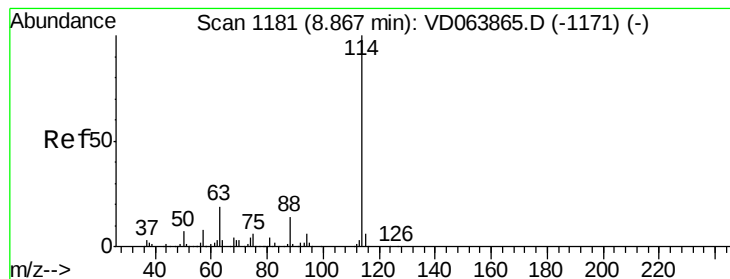
#33
1,2-Dichloroethane-d4
Concen: 61.153 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064031.D
Acq: 23 Oct 2019 20:05

Tgt Ion: 65 Resp: 77869
Ion Ratio Lower Upper
65 100
67 55.3 0.0 106.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064031.D

Acq: 23 Oct 2019 20:05

Instrument :

MSVOA_D

ClientSampleId :

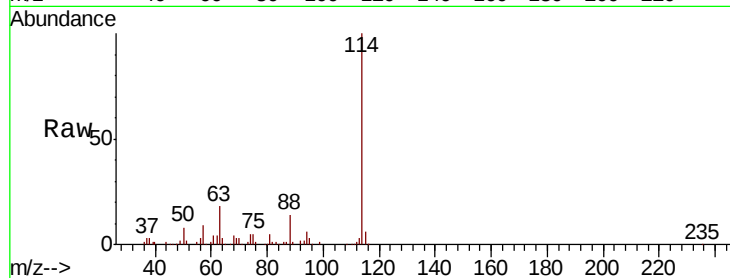
Tot Ion:114 Resp: 253059

Ion Ratio Lower Upper

114 100

63 18.3 0.0 38.4

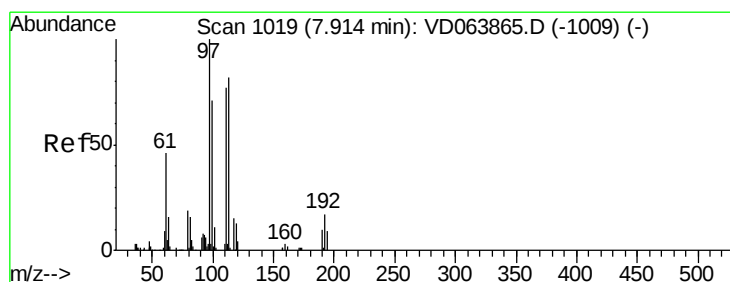
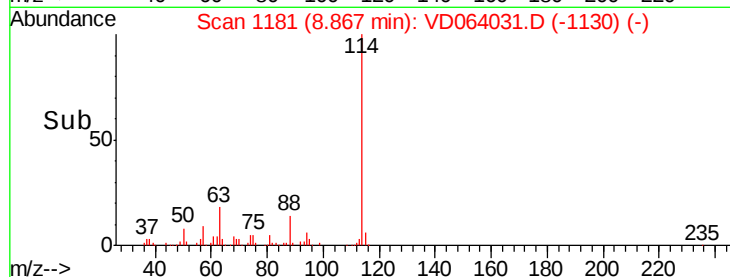
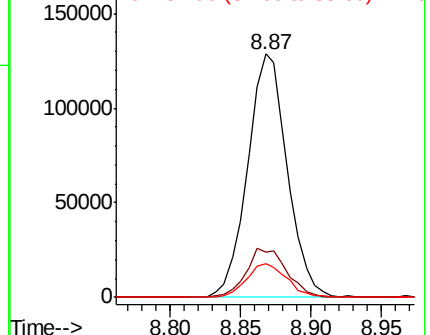
88 14.0 0.0 27.4



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: 52.396 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD064031.D

Acq: 23 Oct 2019 20:05

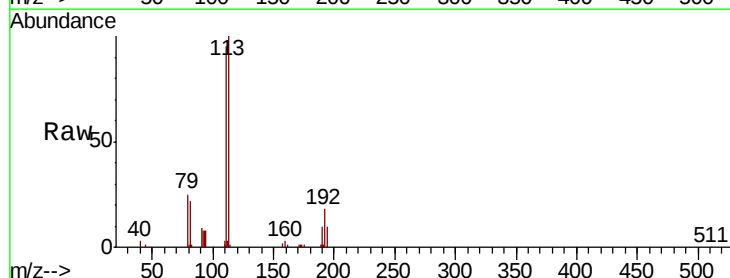
Tgt Ion:113 Resp: 81031

Ion Ratio Lower Upper

113 100

111 103.4 82.6 123.8

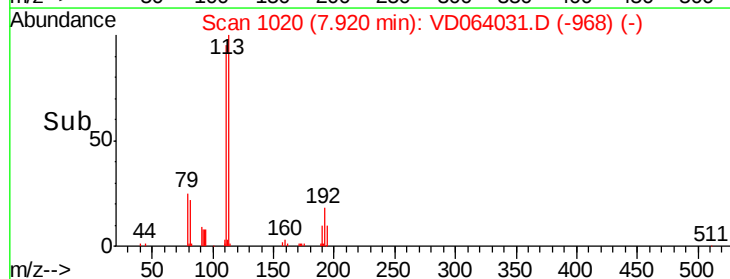
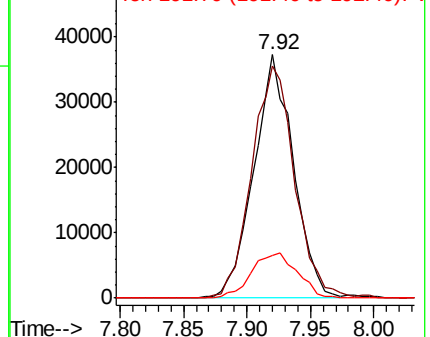
192 21.5 17.1 25.7

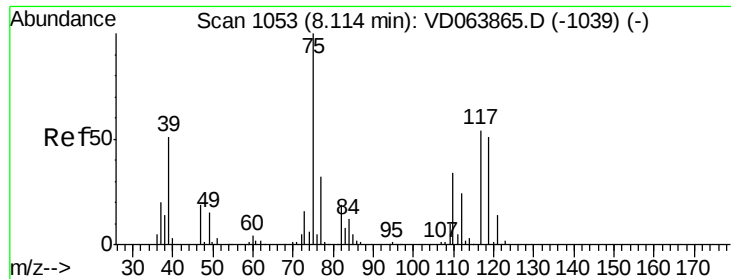


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

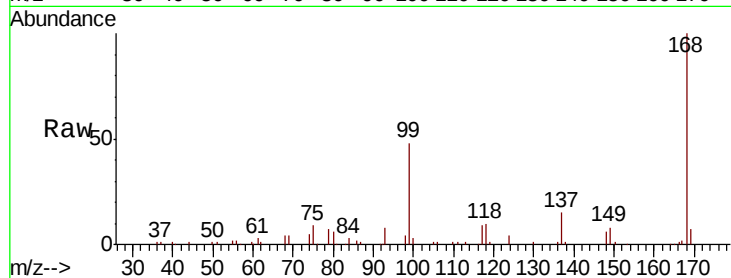




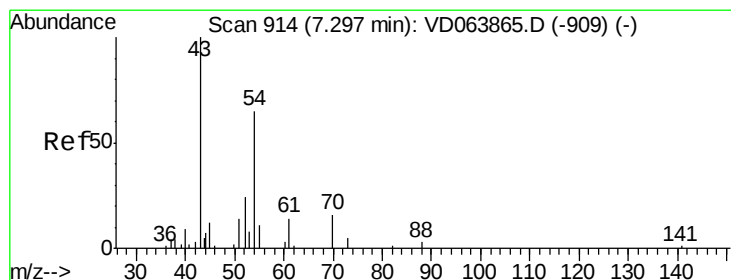
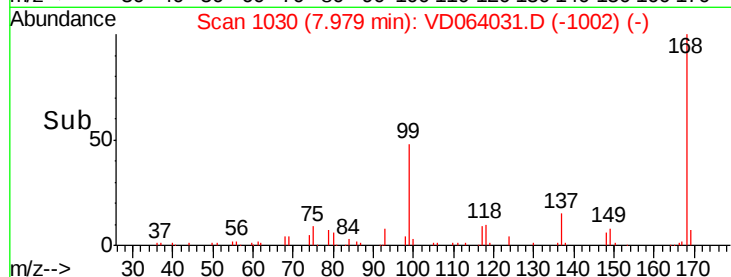
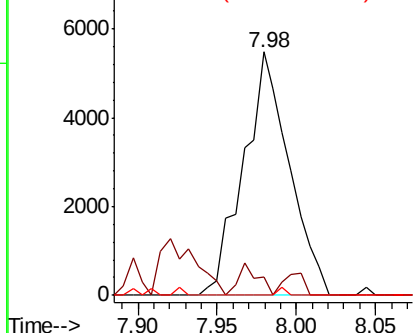
#36
 1,1-Dichloropropene
 Concen: 4.727 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064031.D
 Acq: 23 Oct 2019 20:05

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	5.7	17.4	52.3#
77	0.0	25.4	38.0#

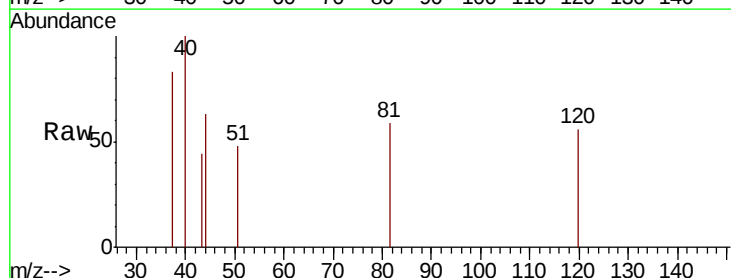


Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.90 (76.60 to 77.60): VDC

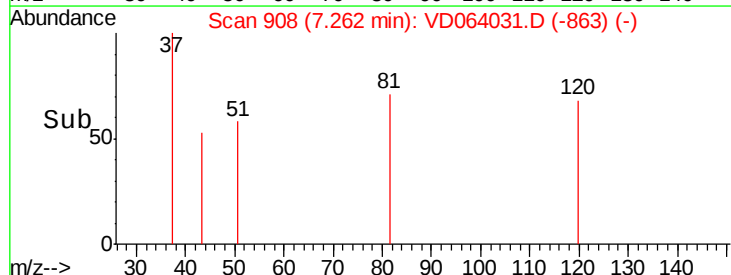
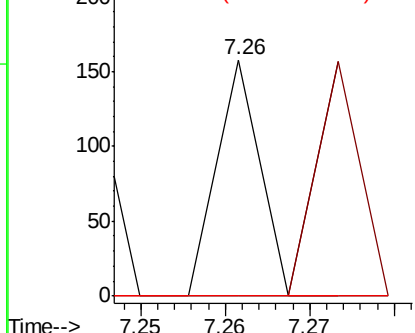


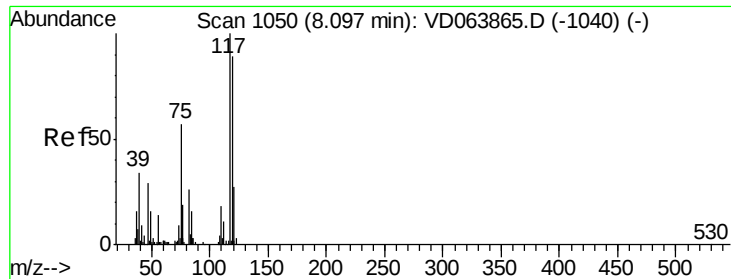
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.26 min Scan# 908
 Delta R.T. -0.03 min
 Lab File: VD064031.D
 Acq: 23 Oct 2019 20:05

Tgt Ion	Ratio	Lower	Upper
43	100		
61	98.2	11.5	17.3#
70	0.0	8.2	12.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 70.00 (69.70 to 70.70): VDC

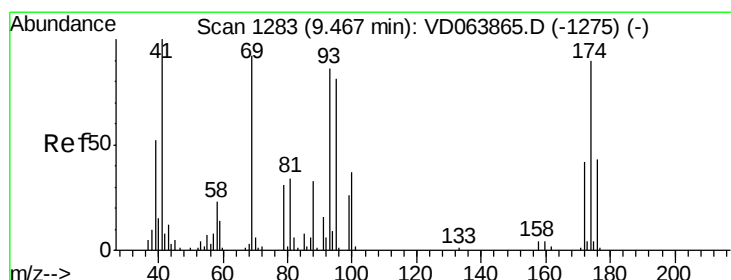
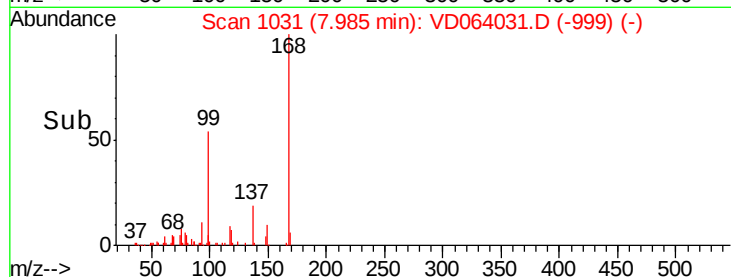
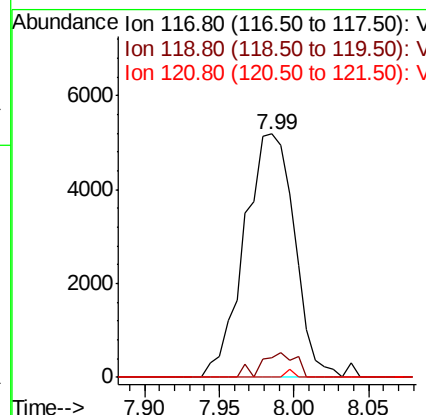
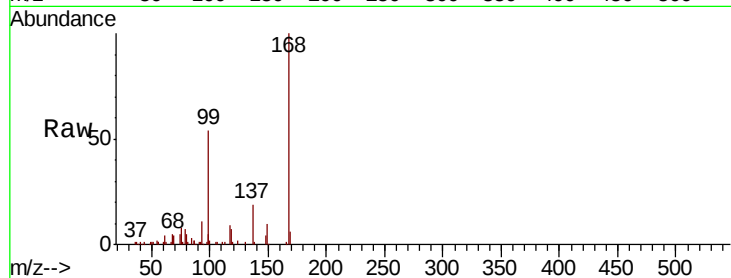




#38
Carbon Tetrachloride
Concen: 5.156 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064031.D
Acq: 23 Oct 2019 20:05

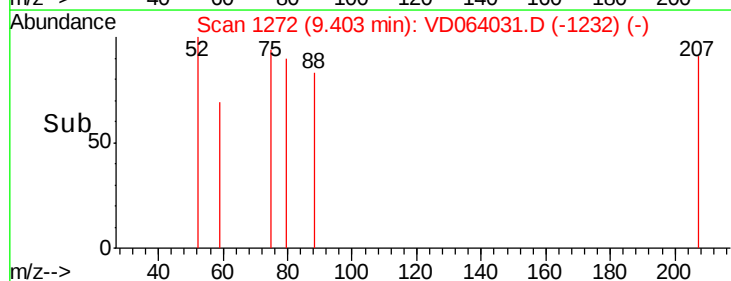
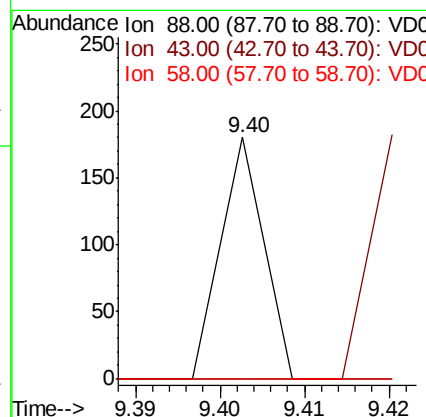
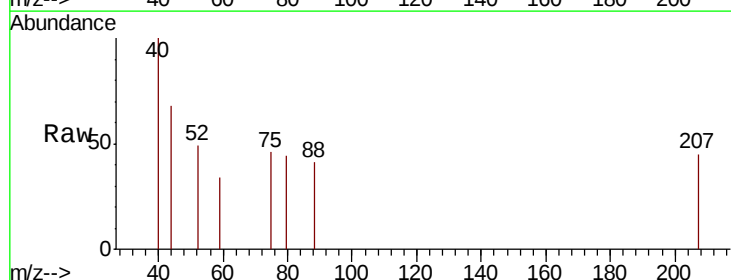
Instrument :
MSVOA_D
ClientSampleId :

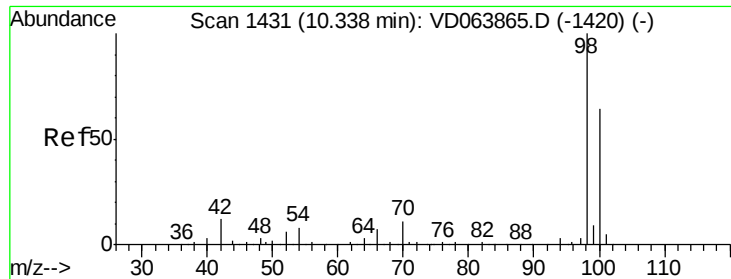
Tot Ion:117 Resp: 12056
Ion Ratio Lower Upper
117 100
119 7.9 70.8 106.2#
121 0.0 21.4 32.0#



#49
1,4-Dioxane
Concen: 5.073 ug/l
RT: 9.40 min Scan# 1272
Delta R.T. -0.06 min
Lab File: VD064031.D
Acq: 23 Oct 2019 20:05

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 100.0 27.6 41.4#
58 0.0 54.1 81.1#





#50

Toluene-d8

Concen: 58.145 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064031.D

Acq: 23 Oct 2019 20:05

Instrument :

MSVOA_D

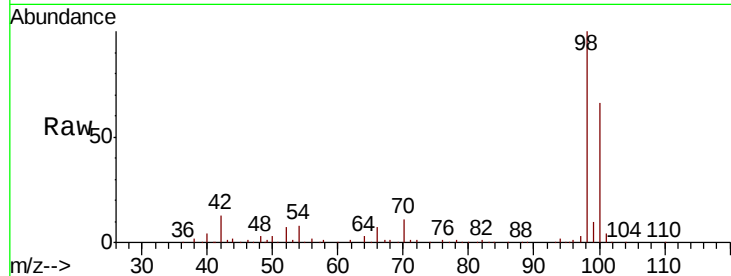
ClientSampleId :

Tot Ion: 98 Resp: 364980

Ion Ratio Lower Upper

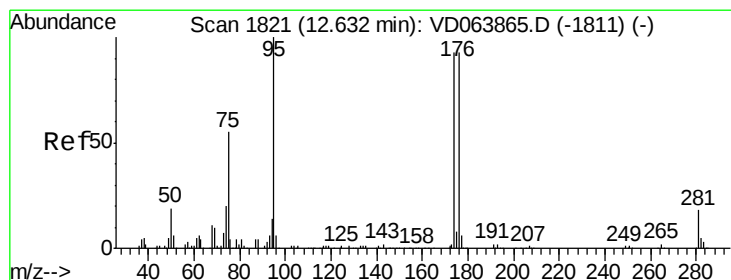
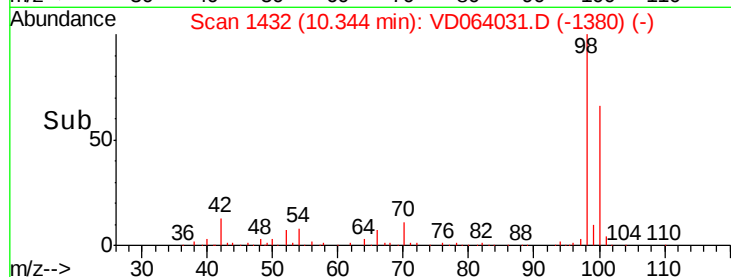
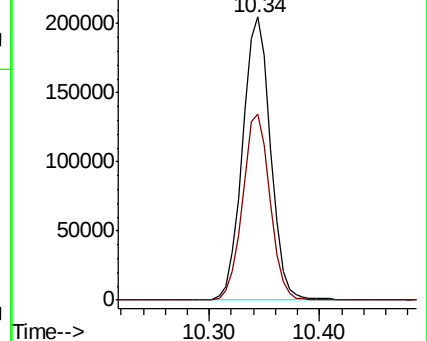
98 100

100 64.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 49.866 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD064031.D

Acq: 23 Oct 2019 20:05

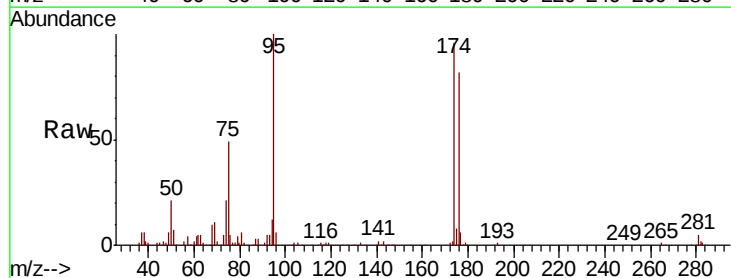
Tgt Ion: 95 Resp: 108771

Ion Ratio Lower Upper

95 100

174 94.7 0.0 186.4

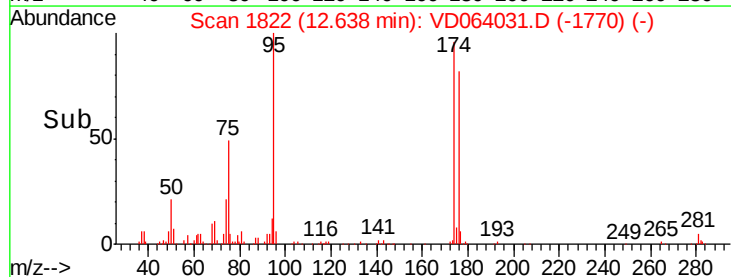
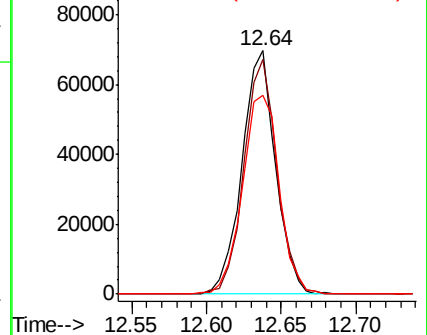
176 89.2 0.0 184.2

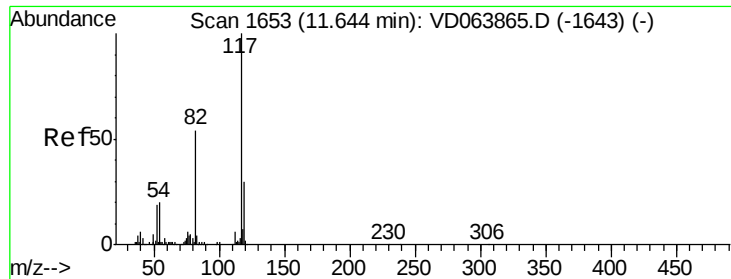


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

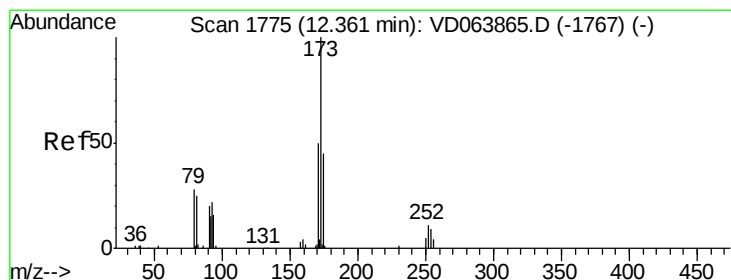
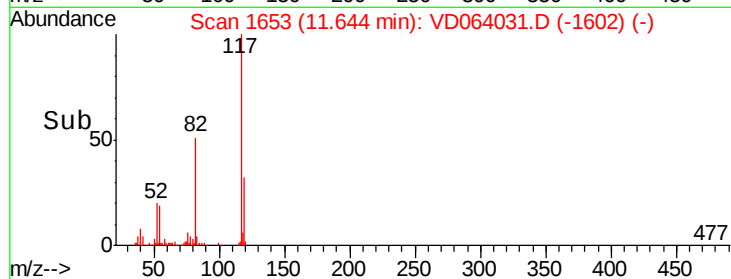
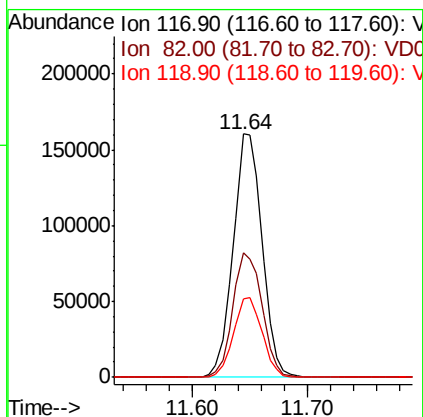
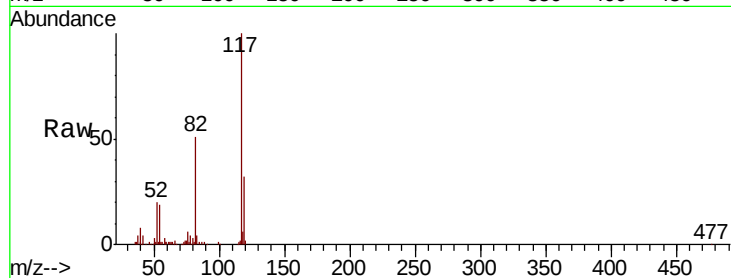




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD064031.D
Acq: 23 Oct 2019 20:05

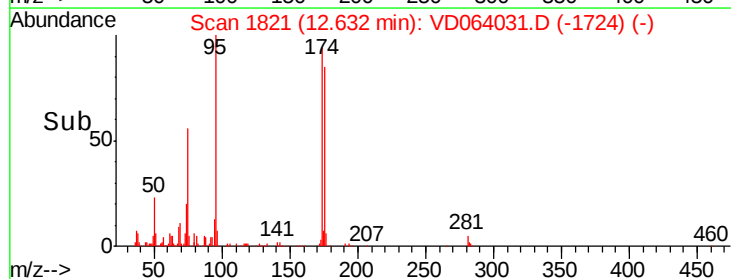
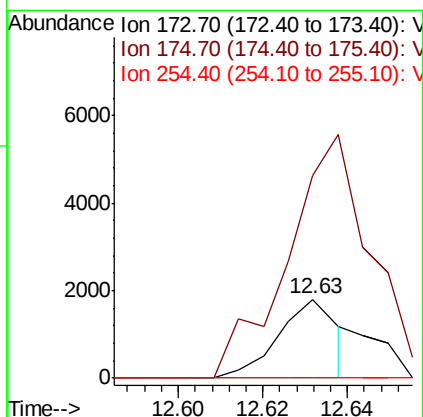
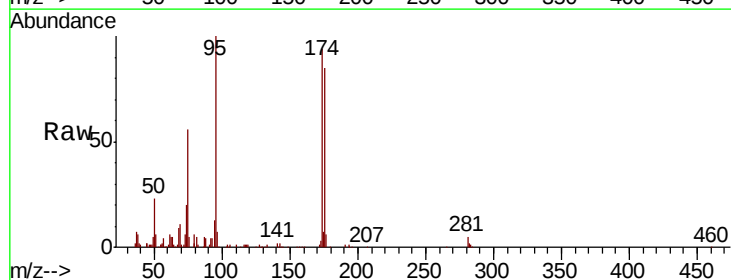
Instrument :
MSVOA_D
ClientSampleId :

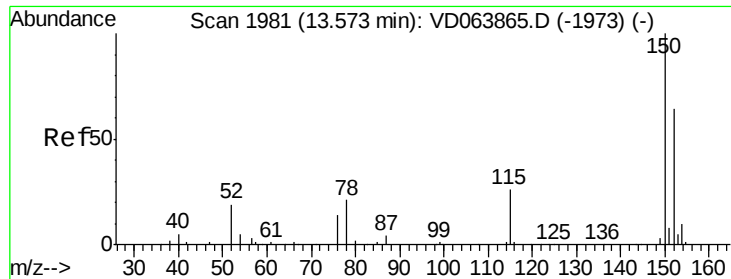
Tot Ion:117 Resp: 277579
Ion Ratio Lower Upper
117 100
82 51.1 42.8 64.2
119 32.1 24.4 36.6



#71
Bromoform
Concen: 1.591 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.27 min
Lab File: VD064031.D
Acq: 23 Oct 2019 20:05

Tgt Ion:173 Resp: 1754
Ion Ratio Lower Upper
173 100
175 0.0 24.6 74.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD064031.D

Acq: 23 Oct 2019 20:05

Instrument :

MSVOA_D

ClientSampleId :

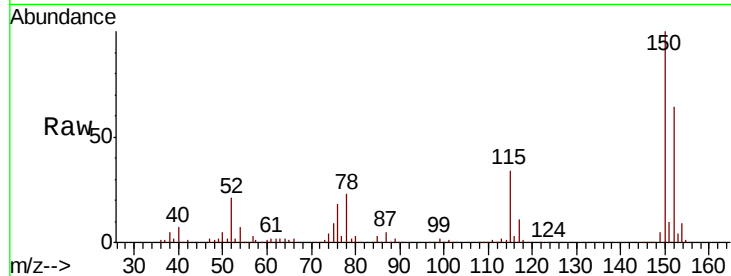
Tot Ion:152 Resp: 121575

Ion Ratio Lower Upper

152 100

115 56.2 25.9 77.7

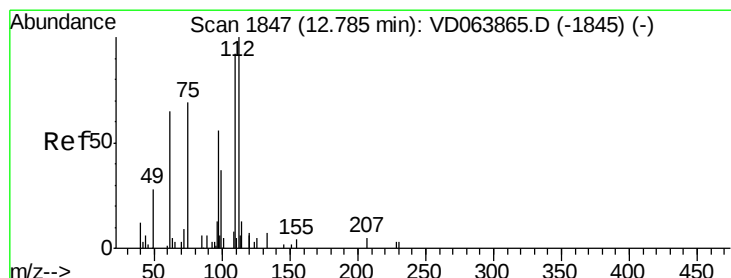
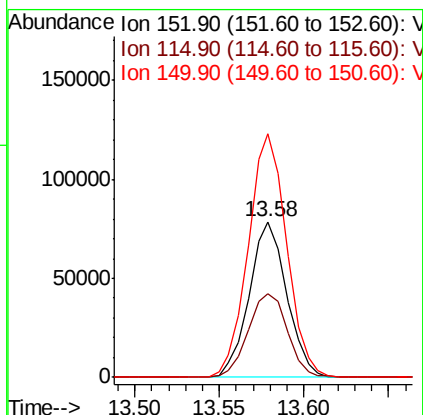
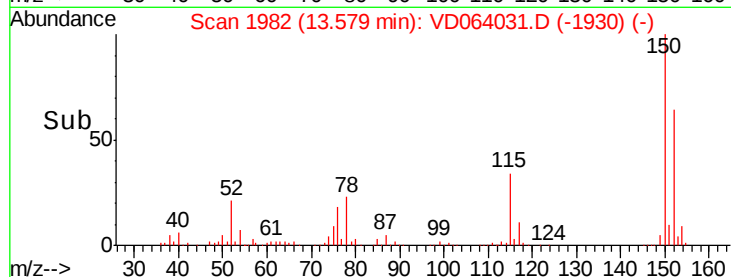
150 159.3 0.0 344.2



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: 72.420 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD064031.D

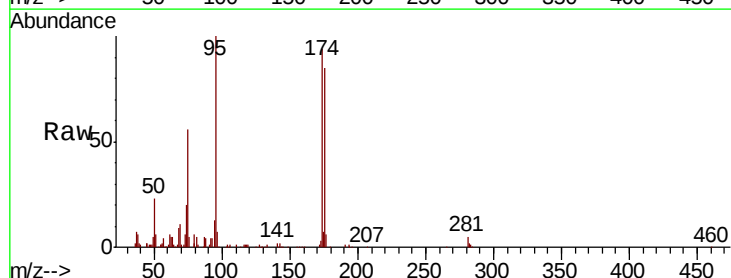
Acq: 23 Oct 2019 20:05

Tgt Ion: 75 Resp: 58970

Ion Ratio Lower Upper

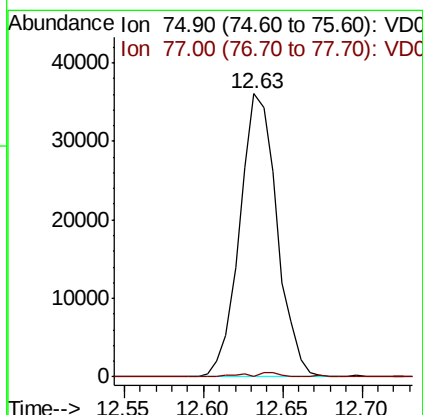
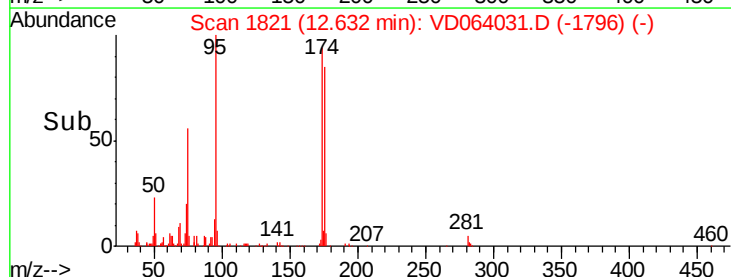
75 100

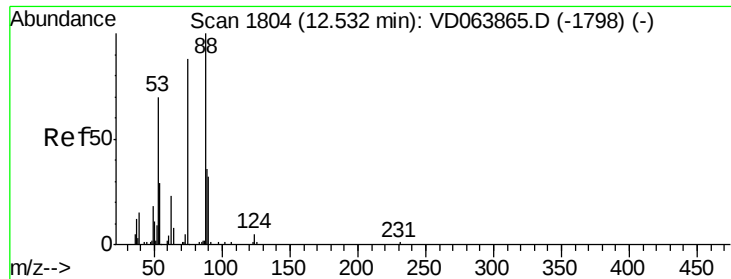
77 1.4 0.0 0.0#



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: 128.155 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD064031.D

Acq: 23 Oct 2019 20:05

Instrument :

MSVOA_D

ClientSampleId :

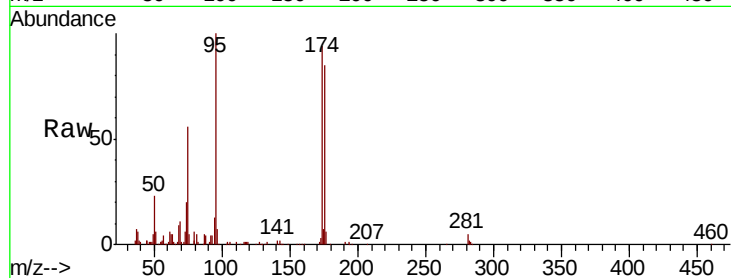
Tot Ion: 75 Resp: 58970

Ion Ratio Lower Upper

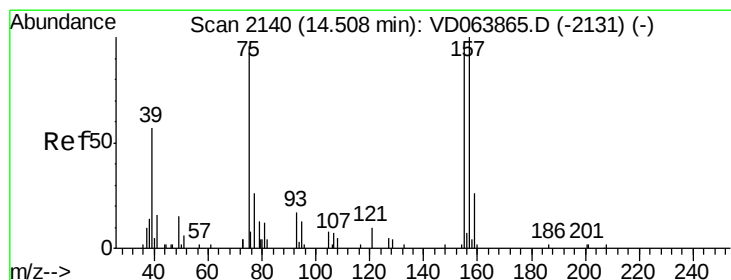
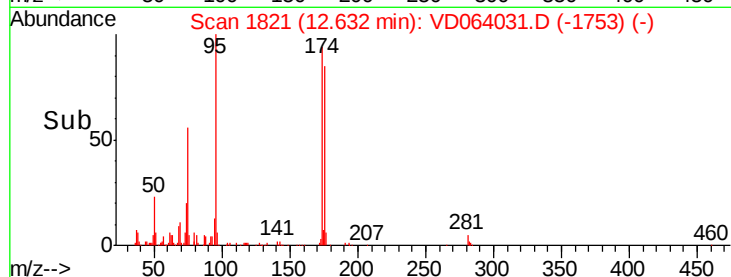
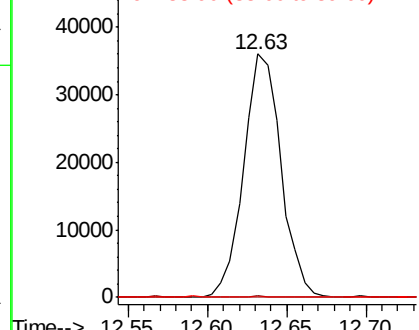
75 100

53 0.1 75.0 112.6#

89 0.0 38.2 57.4#



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: Below Cal

RT: 14.50 min Scan# 2139

Delta R.T. -0.01 min

Lab File: VD064031.D

Acq: 23 Oct 2019 20:05

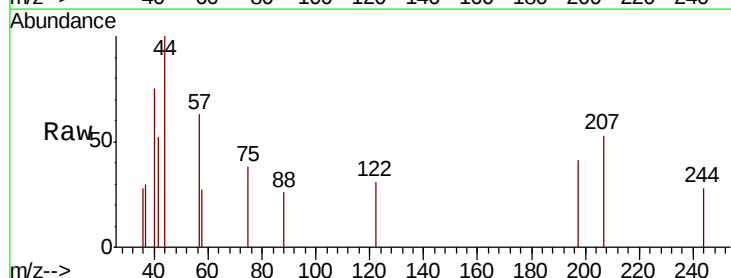
Tgt Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

