

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102319\
 Data File : VD064030.D
 Acq On : 23 Oct 2019 19:37
 Operator : VA/SY
 Sample : K5497-20
 Misc : 5.90G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 24 06:00:08 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	7.99	168	35432	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	69581	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	75653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	35908	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	32310	93.66	ug/l	0.00
Spiked Amount			Recovery	=	187.32%	
35) Dibromofluoromethane	7.93	113	26514	62.35	ug/l	0.01
Spiked Amount			Recovery	=	124.70%	
50) Toluene-d8	10.34	98	93617	54.24	ug/l	0.00
Spiked Amount			Recovery	=	108.48%	
62) 4-Bromofluorobenzene	12.64	95	27718	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	

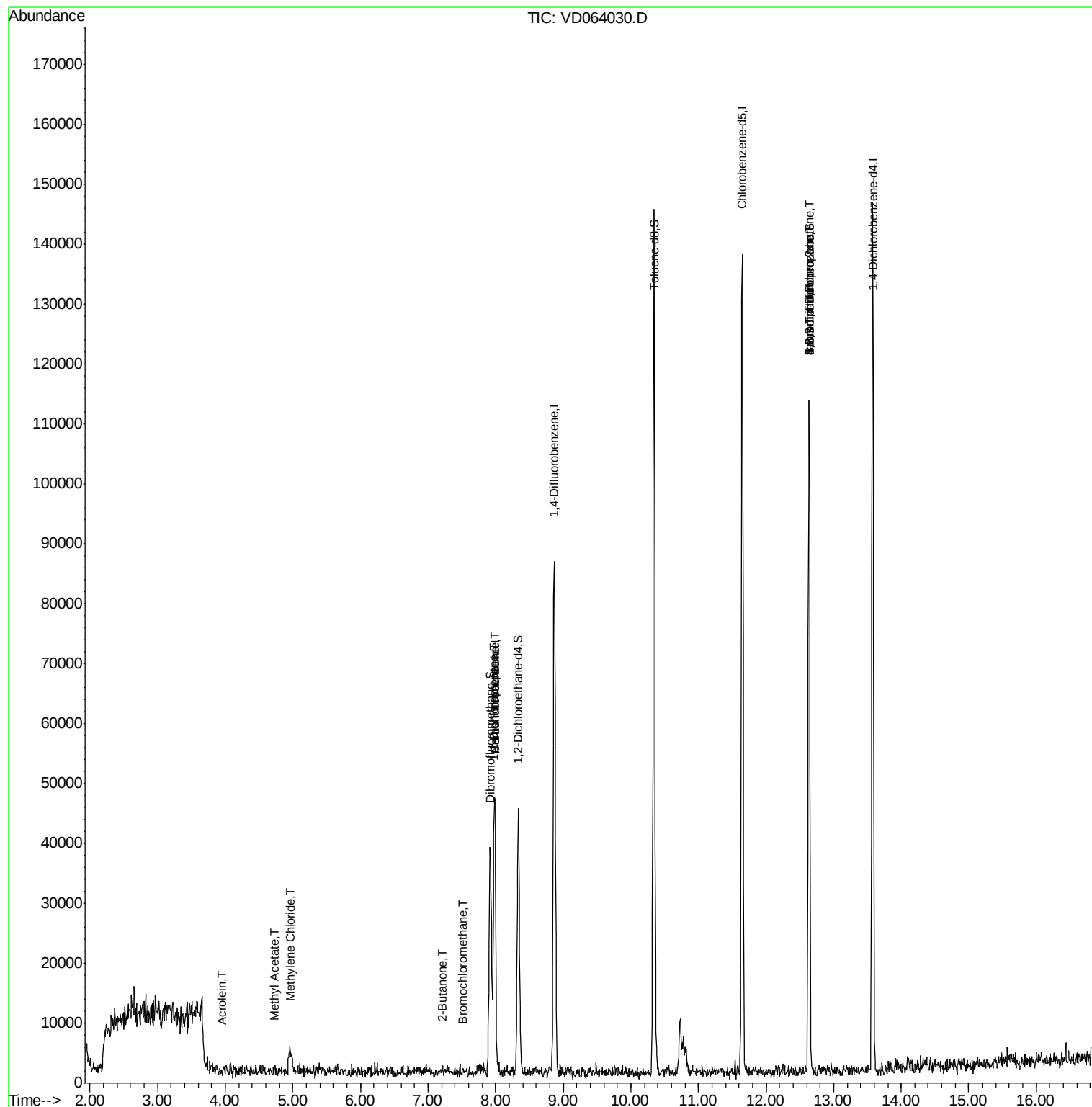
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	472	Below Cal	#	40
11) Tert butyl alcohol	5.20	59	61	Below Cal	#	71
13) Acrolein	3.94	56	56	1.818	ug/l #	17
18) Methyl Acetate	4.73	43	289	1.645	ug/l #	49
20) Methylene Chloride	4.96	84	1664	1.240	ug/l #	72
25) 2-Butanone	7.21	43	178	1.672	ug/l #	51
28) Bromochloromethane	7.51	49	134	2.410	ug/l #	10
31) Cyclohexane	7.99	56	422	Below Cal	#	60
36) 1,1-Dichloropropene	7.97	75	3122	4.907	ug/l #	46
37) Ethyl Acetate	7.29	43	74	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	3838	5.970	ug/l #	15
71) Bromoform	12.63	173	473	1.574	ug/l #	28
76) 1,2,3-Trichloropropane	12.64	75	18076	75.160	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	18076	133.002	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.58	75	55	Below Cal	#	1

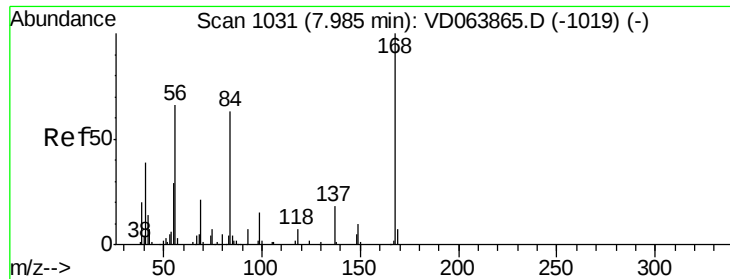
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 05 03:51:17 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

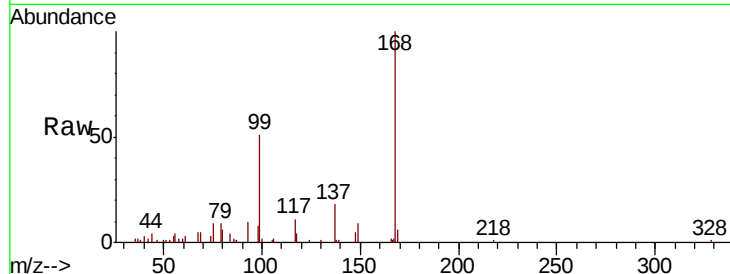
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 35432

Ion Ratio Lower Upper

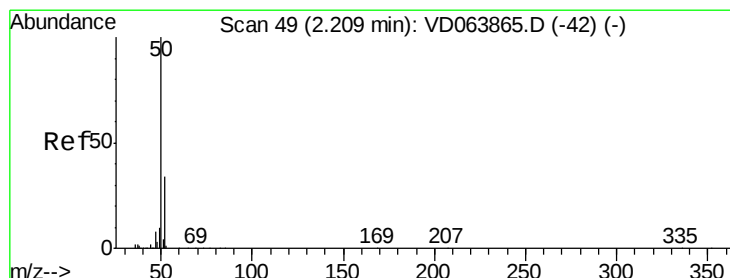
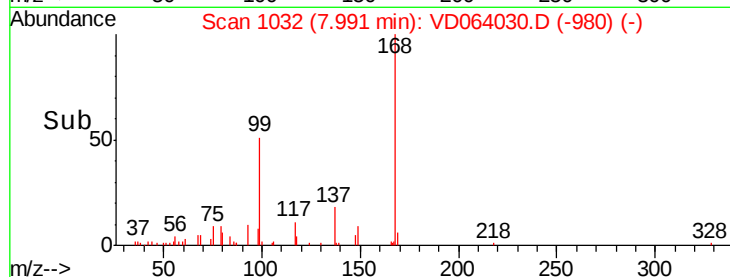
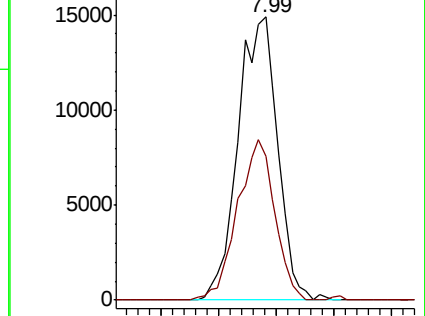
168 100

99 51.0 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: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064030.D

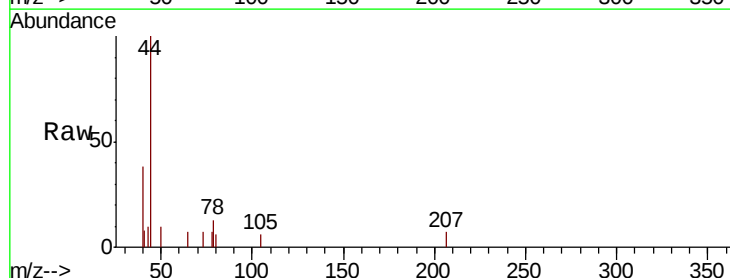
Acq: 23 Oct 2019 19:37

Tgt Ion: 50 Resp: 472

Ion Ratio Lower Upper

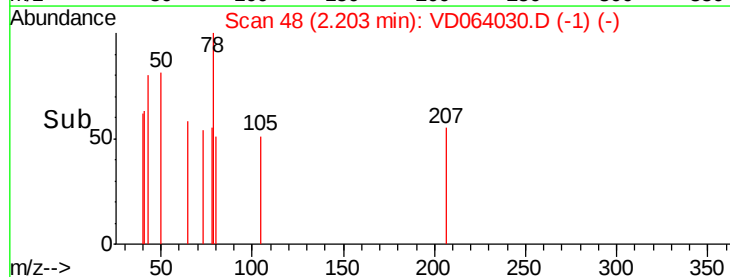
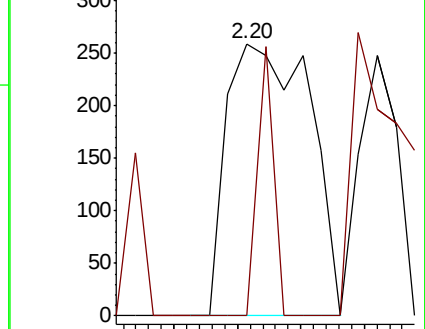
50 100

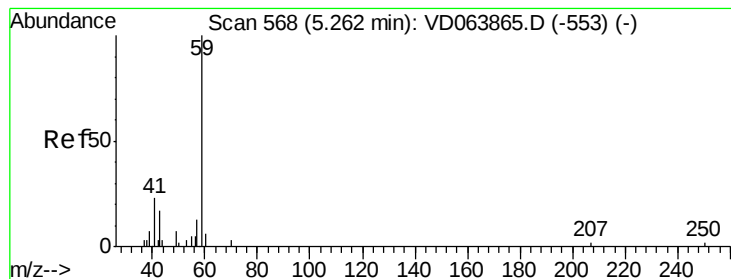
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



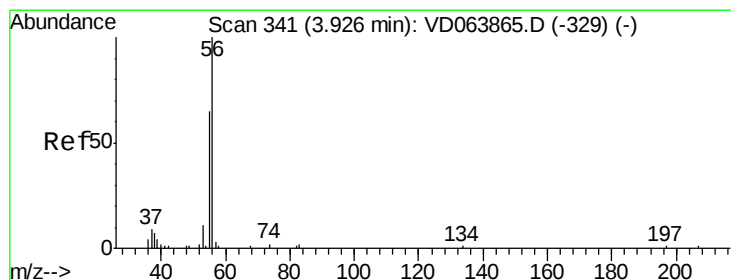
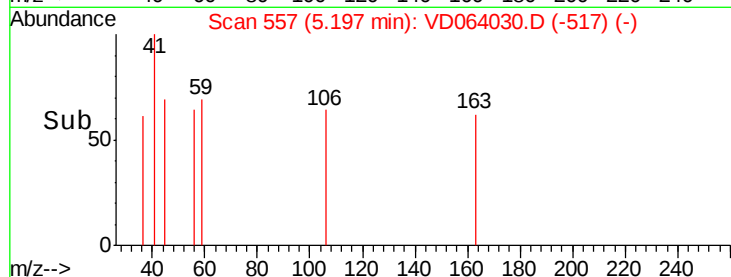
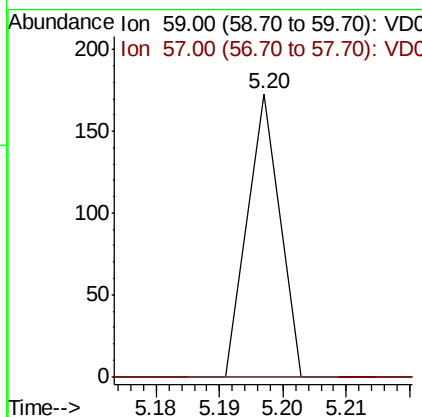
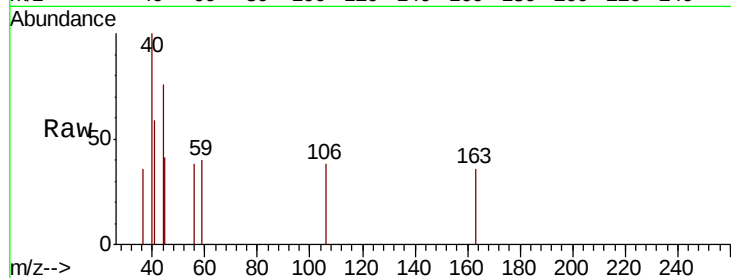


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.20 min Scan# 557
 Delta R.T. -0.06 min
 Lab File: VD064030.D
 Acq: 23 Oct 2019 19:37

Instrument :
 MSVOA_D
 ClientSampleId :

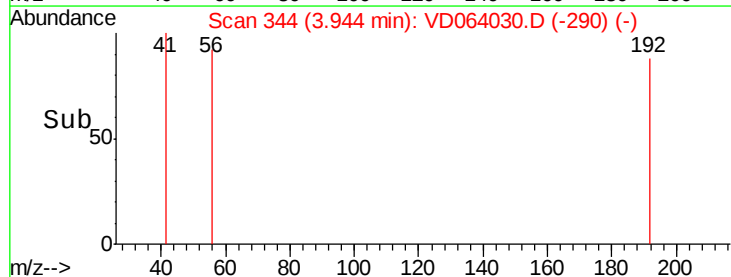
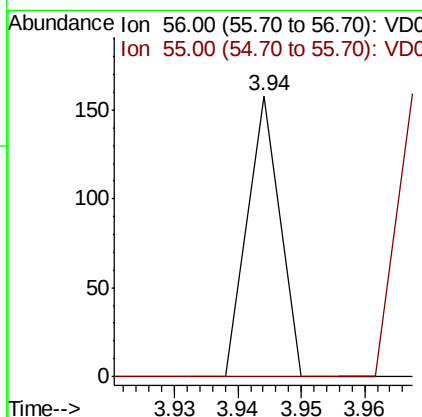
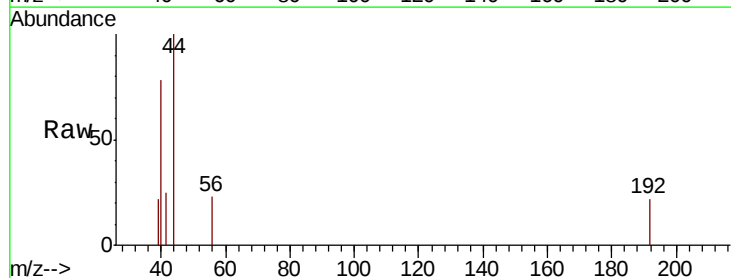
Tot Ion: 59 Resp: 61
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

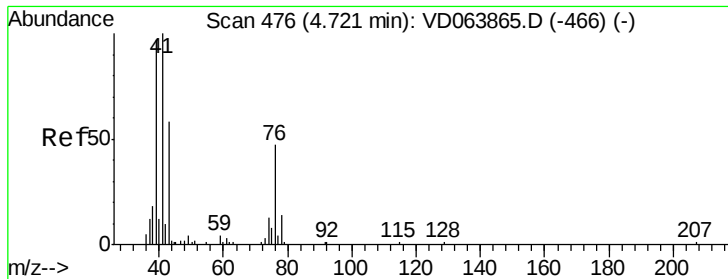


#13

Acrolein
 Concen: 1.818 ug/l
 RT: 3.94 min Scan# 344
 Delta R.T. 0.02 min
 Lab File: VD064030.D
 Acq: 23 Oct 2019 19:37

Tgt Ion: 56 Resp: 56
 Ion Ratio Lower Upper
 56 100
 55 0.0 53.0 79.6#

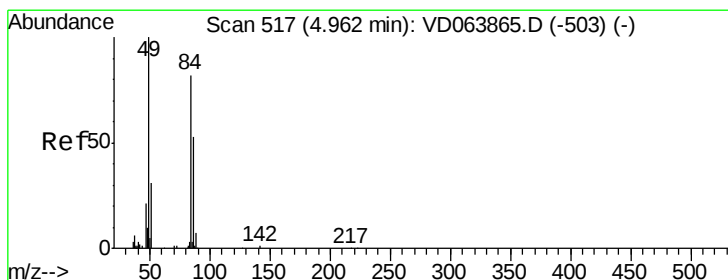
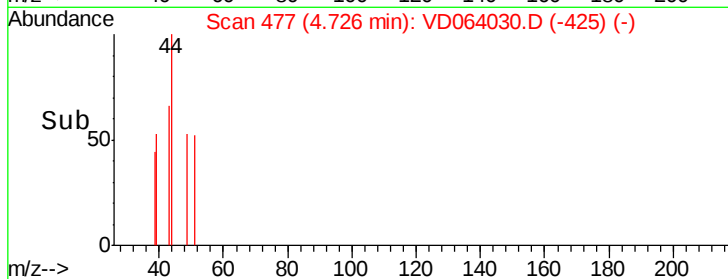
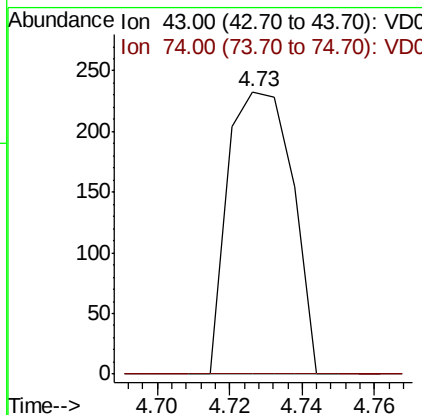
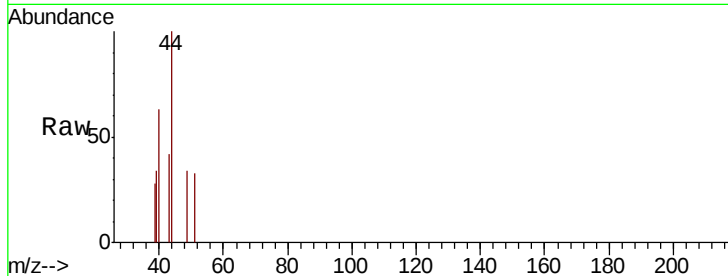




#18
Methyl Acetate
Concen: 1.645 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD064030.D
Acq: 23 Oct 2019 19:37

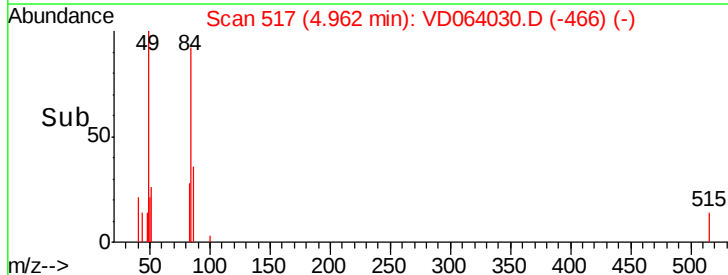
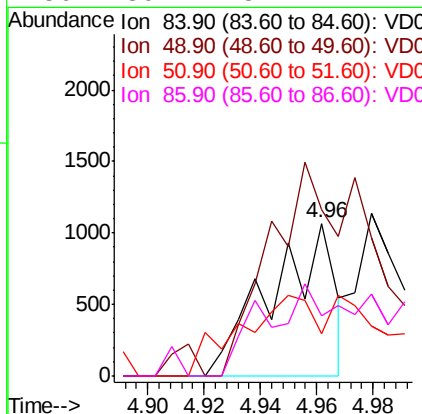
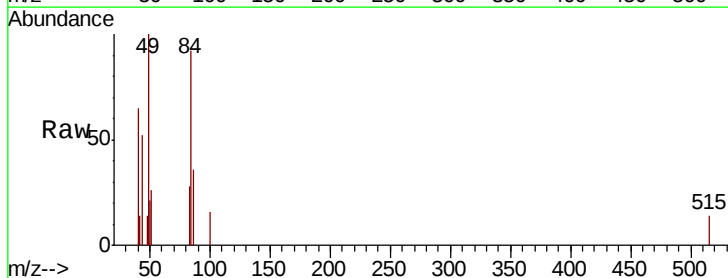
Instrument :
MSVOA_D
ClientSampleId :

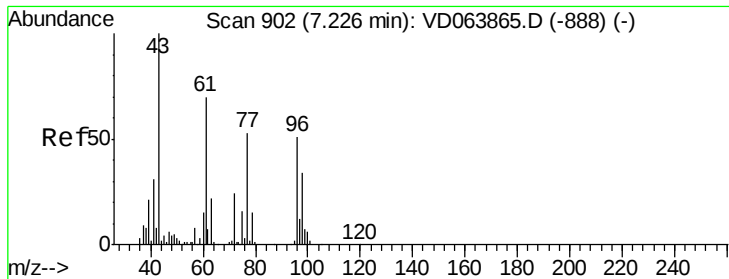
Tot Ion: 43 Resp: 289
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



#20
Methylene Chloride
Concen: 1.240 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064030.D
Acq: 23 Oct 2019 19:37

Tgt Ion: 84 Resp: 1664
Ion Ratio Lower Upper
84 100
49 88.2 97.3 145.9#
51 27.9 30.1 45.1#
86 39.2 51.4 77.2#





#25

2-Butanone

Concen: 1.672 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.01 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

Instrument :

MSVOA_D

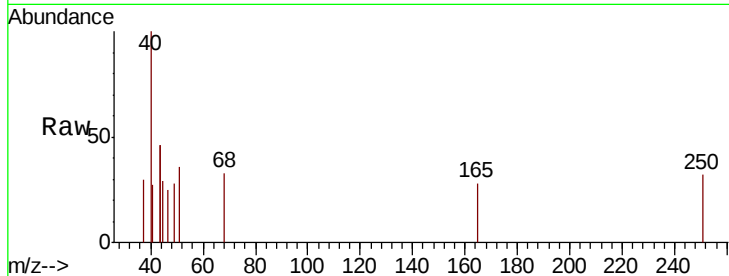
ClientSampleId :

Tot Ion: 43 Resp: 178

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.21

300

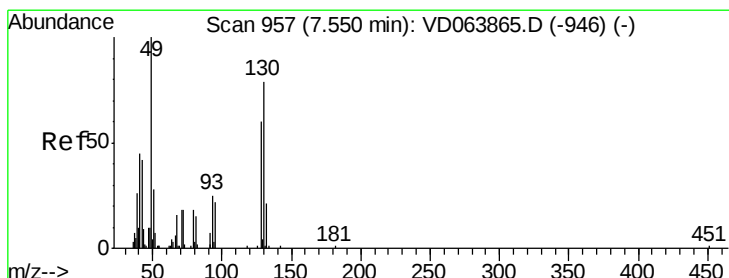
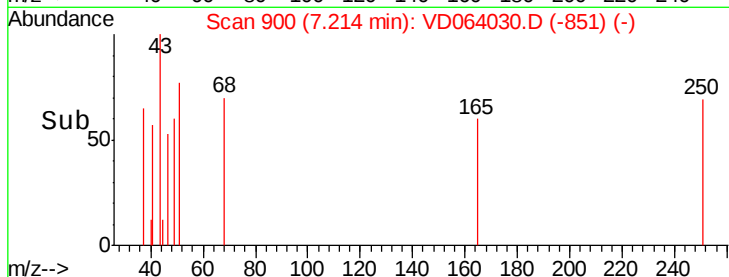
200

100

0

7.20 7.22

Time-->



#28

Bromochloromethane

Concen: 2.410 ug/l

RT: 7.51 min Scan# 951

Delta R.T. -0.03 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

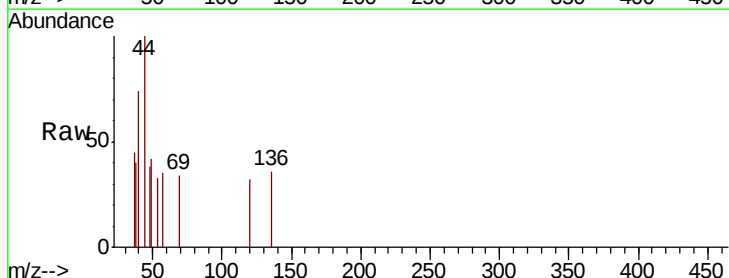
Tgt Ion: 49 Resp: 134

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

250

200

150

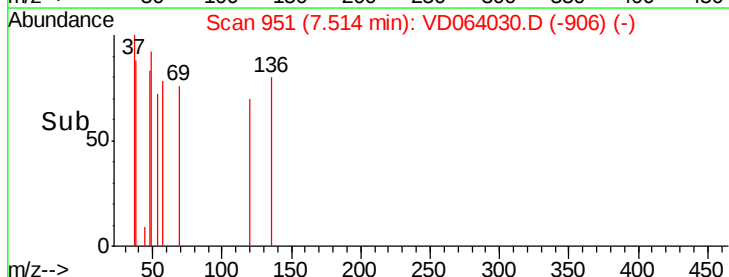
100

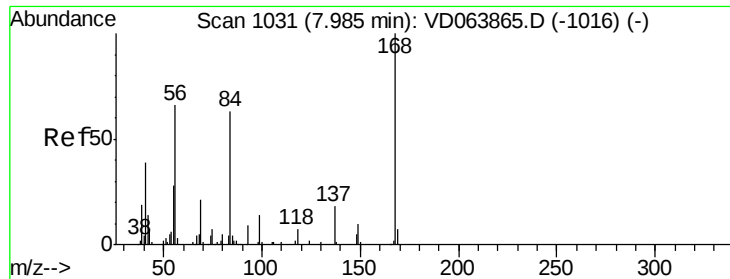
50

0

7.50 7.52 7.54

Time-->

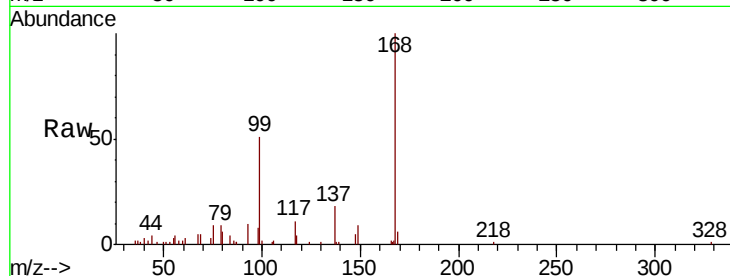




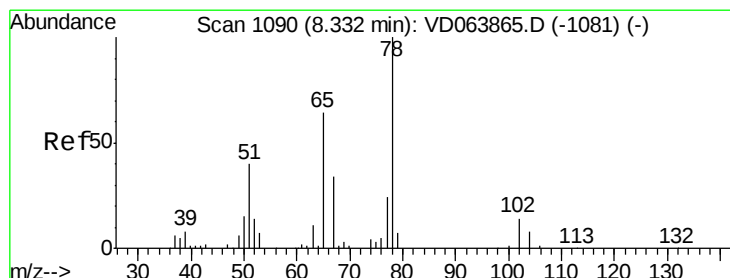
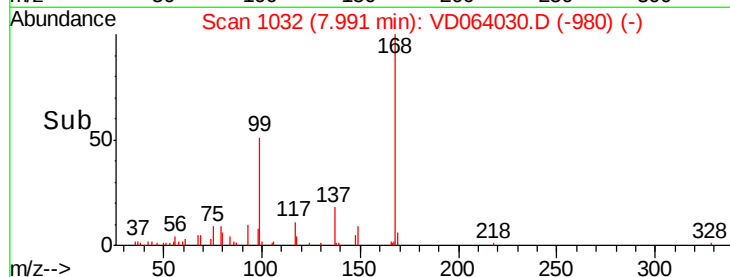
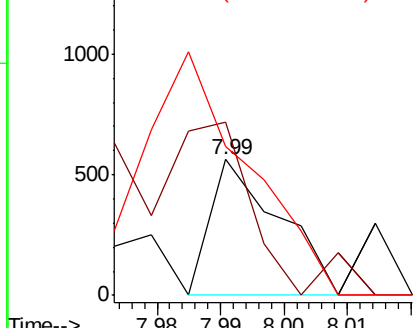
#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD064030.D
Acq: 23 Oct 2019 19:37

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 422
Ion Ratio Lower Upper
56 100
69 95.4 25.0 37.4#
84 109.6 76.3 114.5

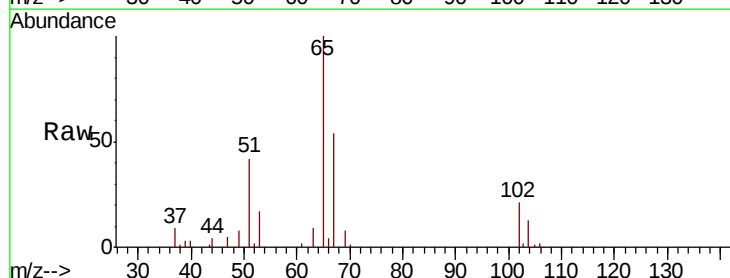


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

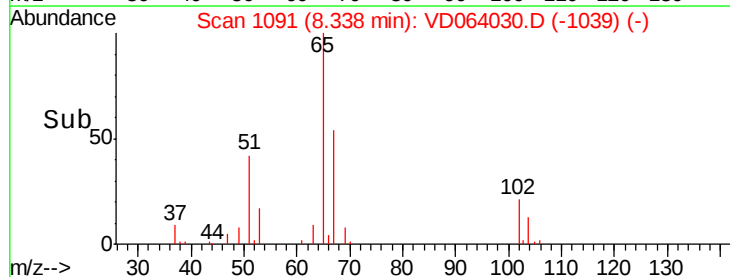
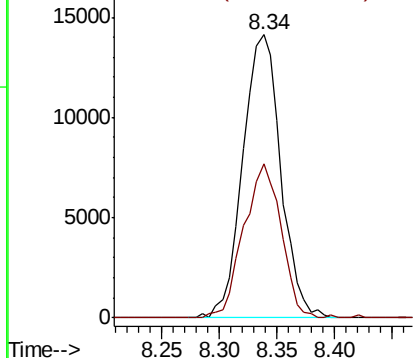


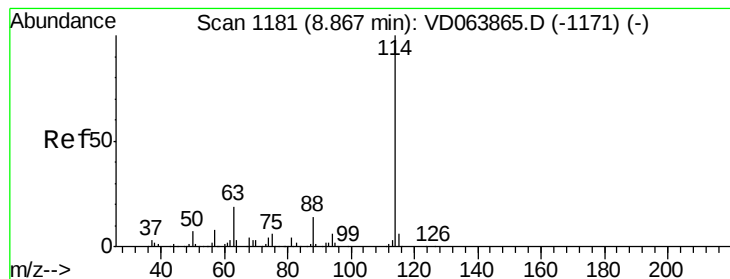
#33
1,2-Dichloroethane-d4
Concen: 93.664 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064030.D
Acq: 23 Oct 2019 19:37

Tgt Ion: 65 Resp: 32310
Ion Ratio Lower Upper
65 100
67 53.6 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: VD064030.D

Acq: 23 Oct 2019 19:37

Instrument :

MSVOA_D

ClientSampleId :

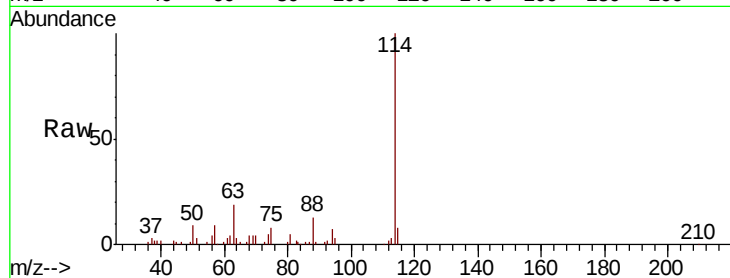
Tot Ion:114 Resp: 69581

Ion Ratio Lower Upper

114 100

63 18.8 0.0 38.4

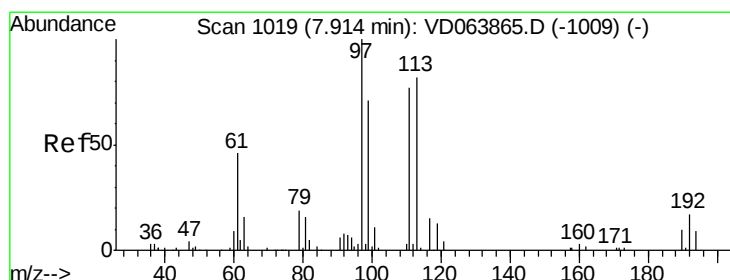
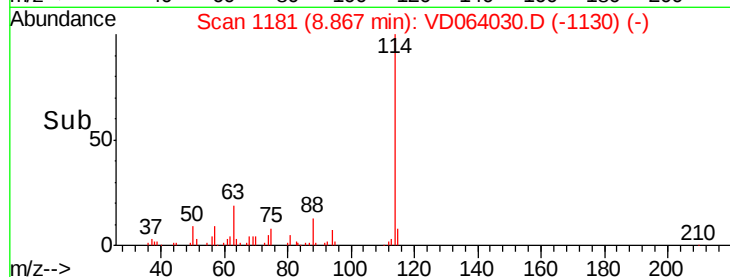
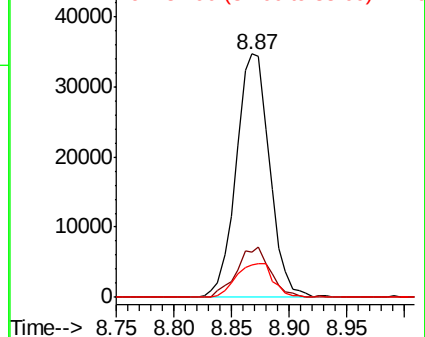
88 13.3 0.0 27.4



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: 62.352 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

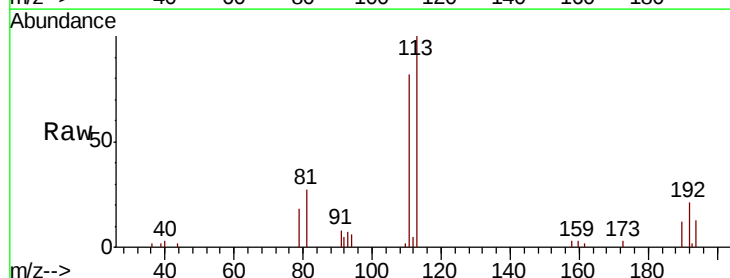
Tgt Ion:113 Resp: 26514

Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

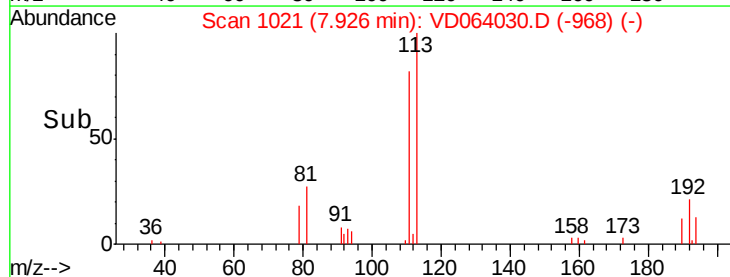
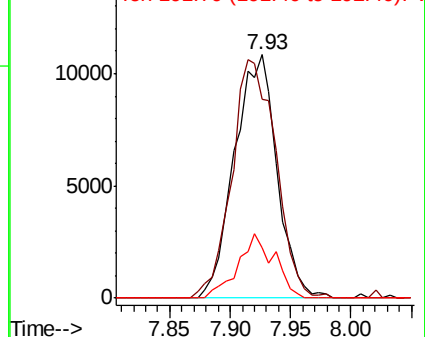
192 22.5 17.1 25.7

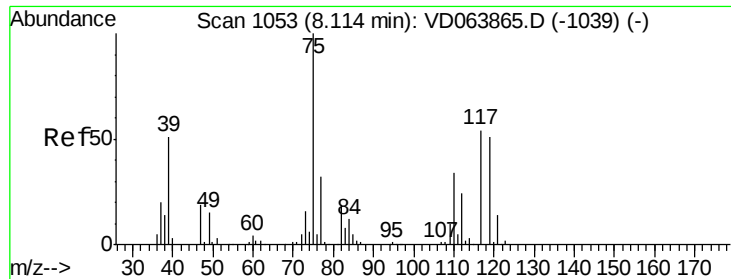


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

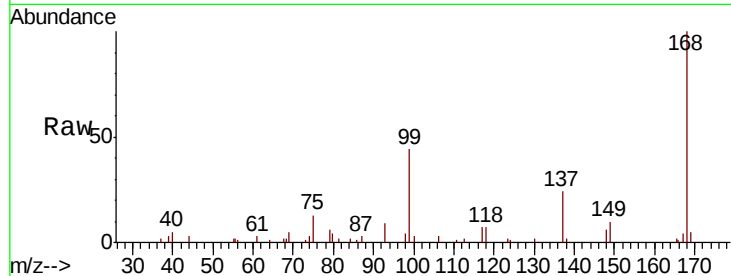




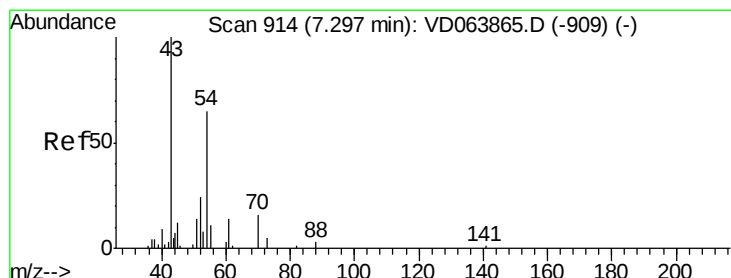
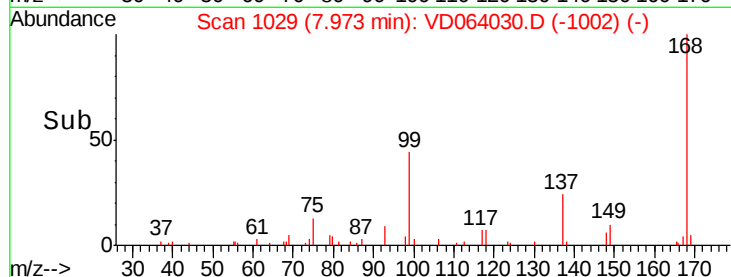
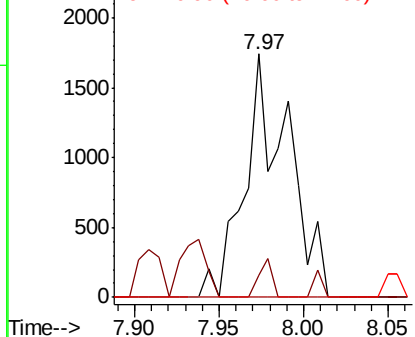
#36
 1,1-Dichloropropene
 Concen: 4.907 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD064030.D
 Acq: 23 Oct 2019 19:37

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.9	17.4	52.3#
77	0.0	25.4	38.0#

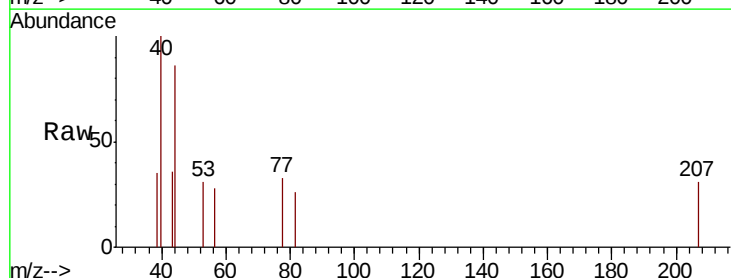


Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.90 (76.60 to 77.60): VDC

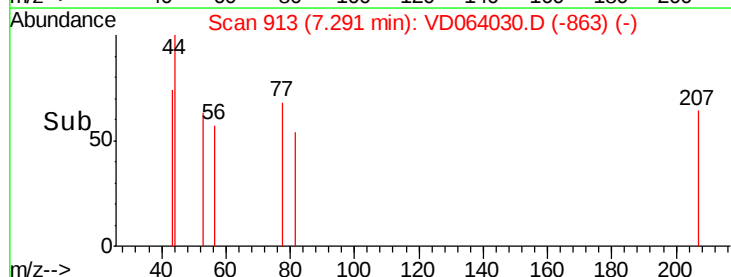
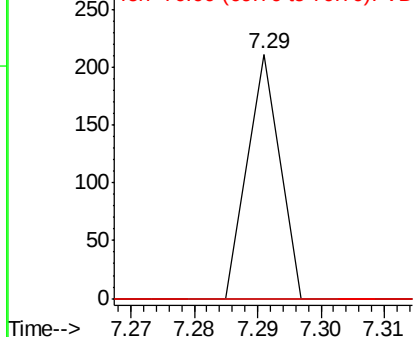


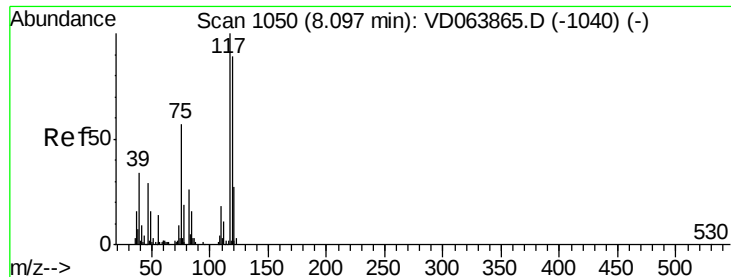
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.29 min Scan# 913
 Delta R.T. -0.01 min
 Lab File: VD064030.D
 Acq: 23 Oct 2019 19:37

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	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: 5.970 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

Instrument :

MSVOA_D

ClientSampleId :

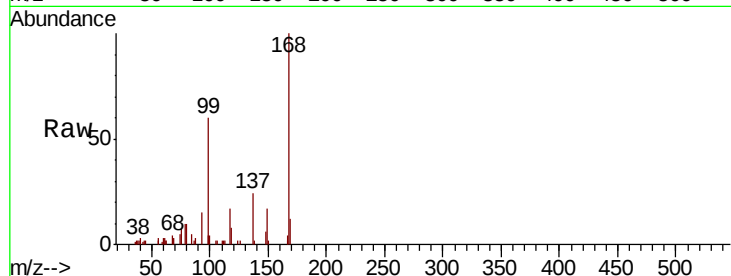
Tot Ion:117 Resp: 3838

Ion Ratio Lower Upper

117 100

119 0.0 70.8 106.2#

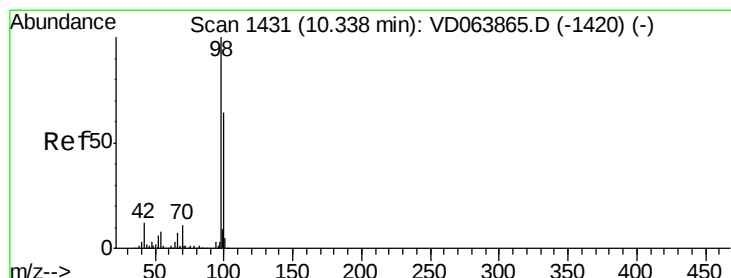
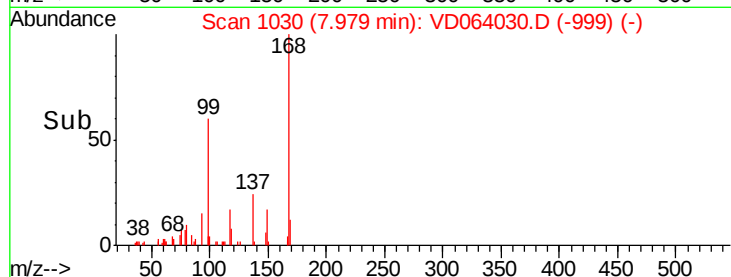
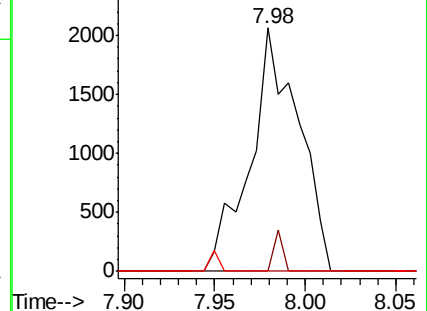
121 0.0 21.4 32.0#



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: 54.241 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064030.D

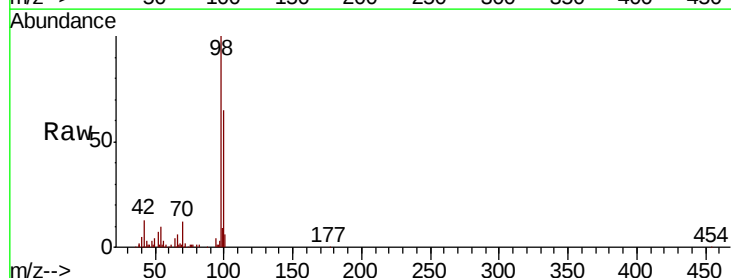
Acq: 23 Oct 2019 19:37

Tgt Ion: 98 Resp: 93617

Ion Ratio Lower Upper

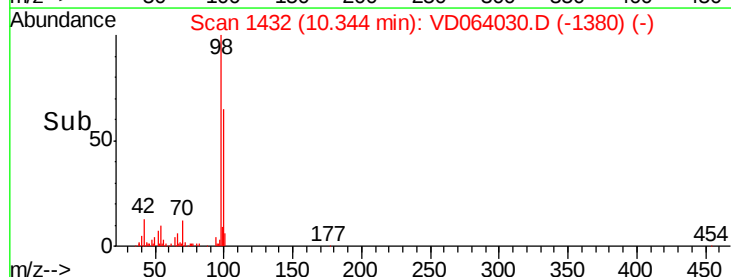
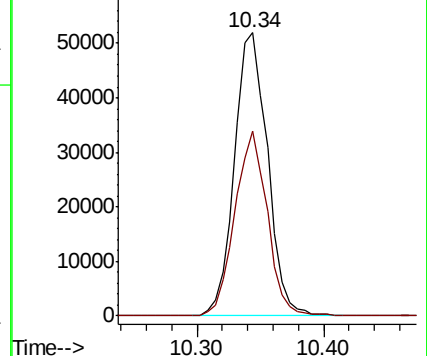
98 100

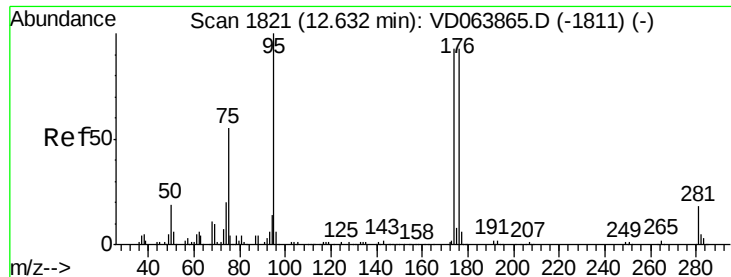
100 63.8 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.215 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

Instrument :

MSVOA_D

ClientSampleId :

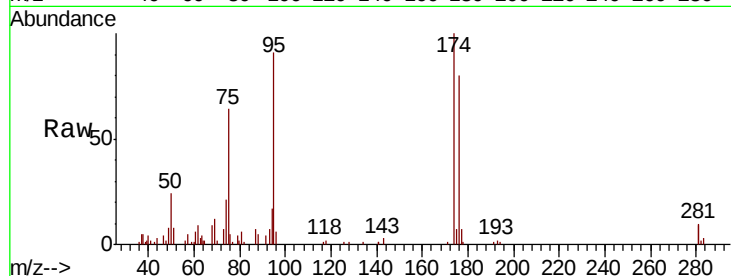
Tot Ion: 95 Resp: 27718

Ion Ratio Lower Upper

95 100

174 106.7 0.0 186.4

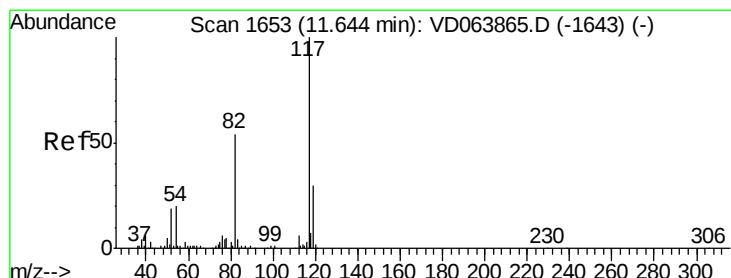
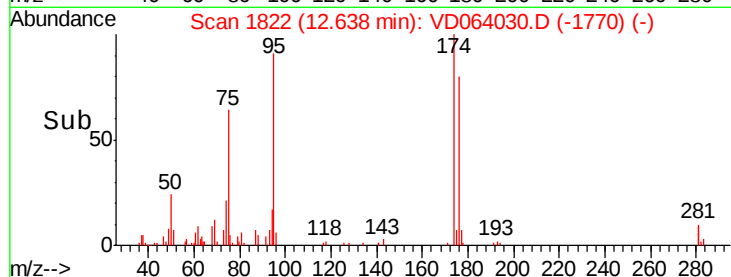
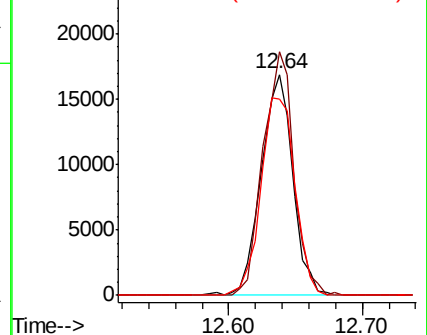
176 96.3 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

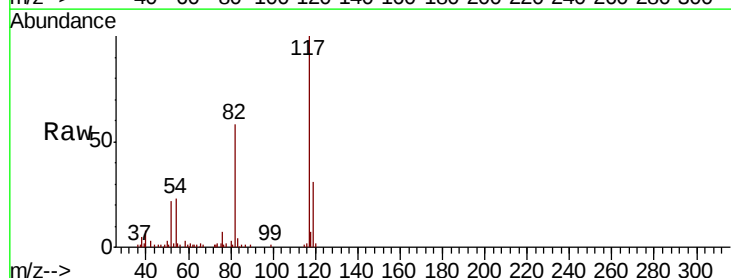
Tgt Ion: 117 Resp: 75653

Ion Ratio Lower Upper

117 100

82 57.6 42.8 64.2

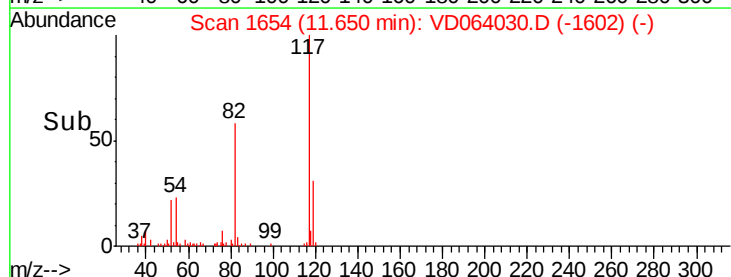
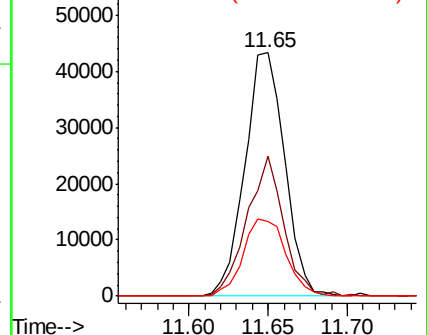
119 30.6 24.4 36.6

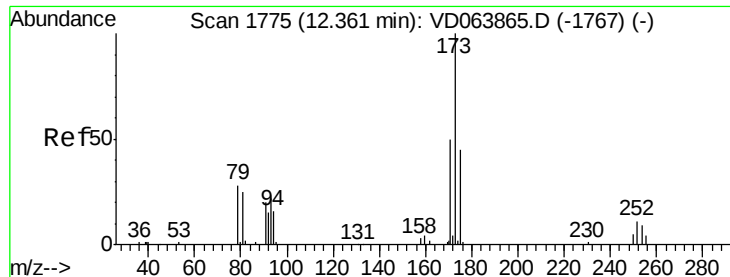


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.574 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.27 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

Instrument :

MSVOA_D

ClientSampleId :

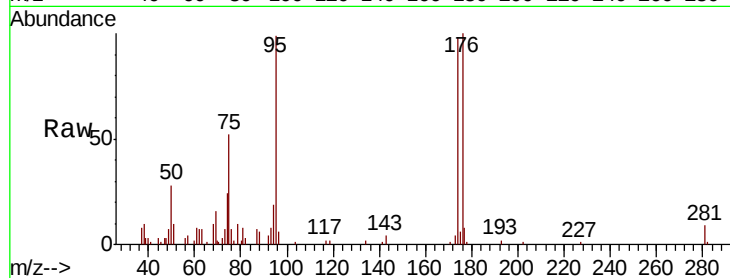
Tot Ion:173 Resp: 473

Ion Ratio Lower Upper

173 100

175 0.0 24.6 74.0#

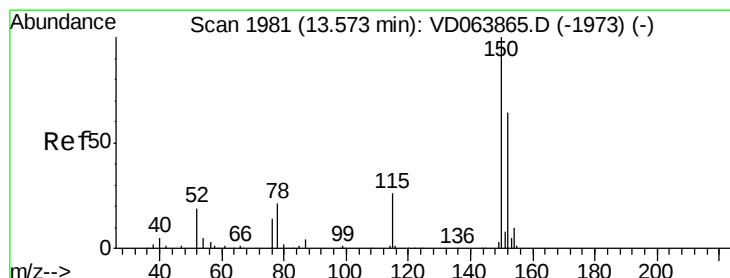
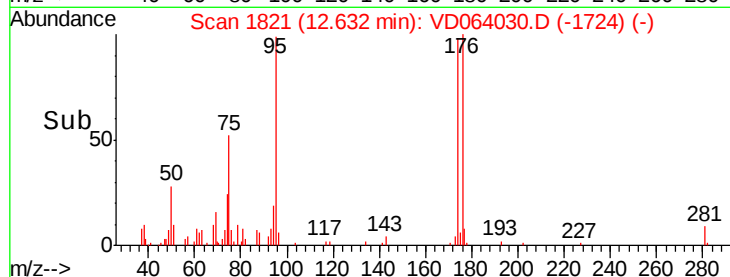
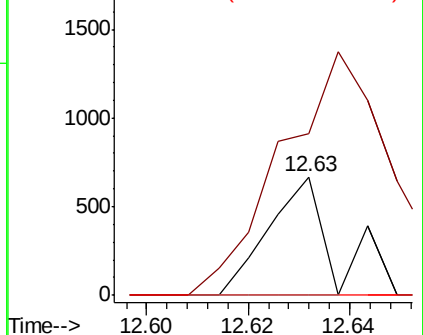
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VD064030.D

Acq: 23 Oct 2019 19:37

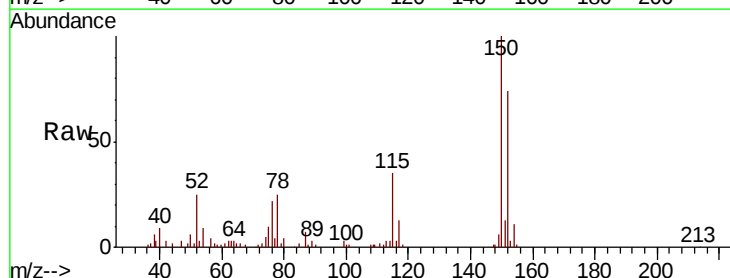
Tgt Ion:152 Resp: 35908

Ion Ratio Lower Upper

152 100

115 53.9 25.9 77.7

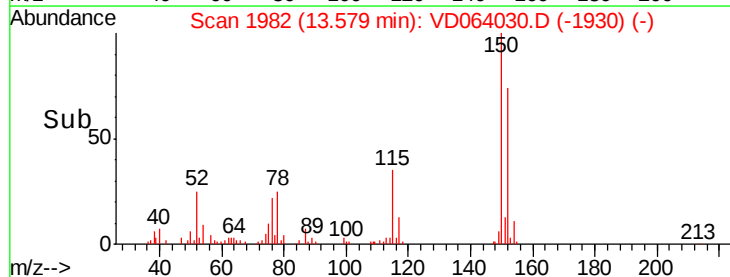
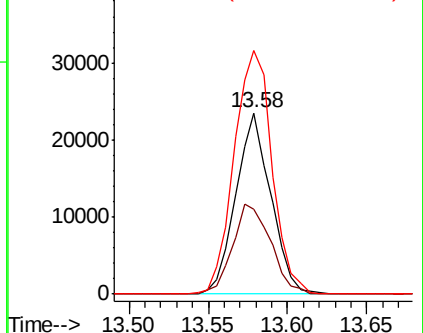
150 145.6 0.0 344.2

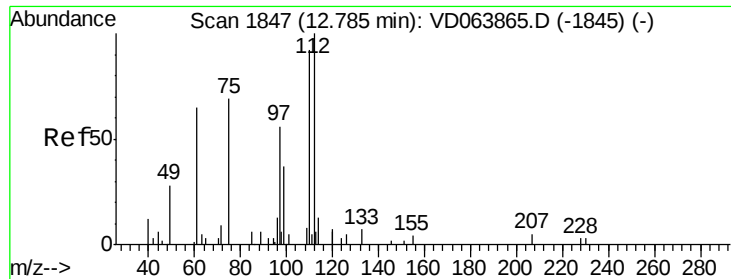


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 75.160 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

Instrument :

MSVOA_D

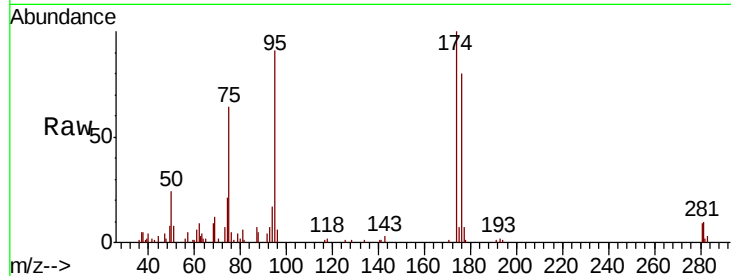
ClientSampled :

Tot Ion: 75 Resp: 18076

Ion Ratio Lower Upper

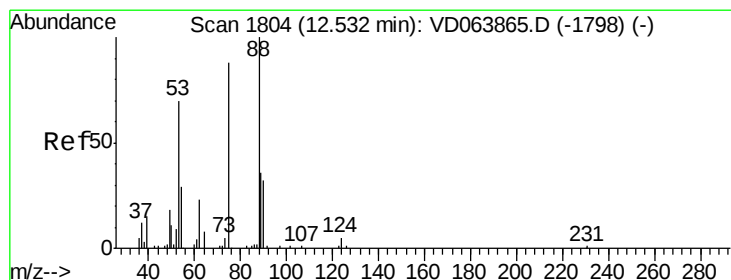
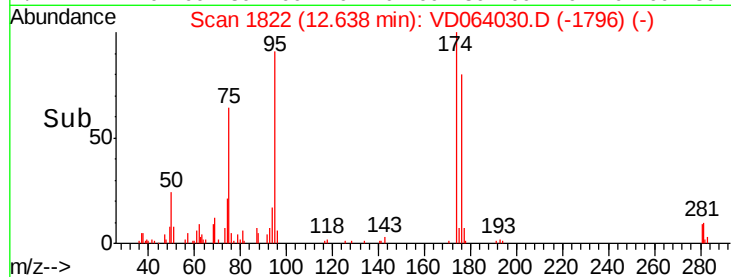
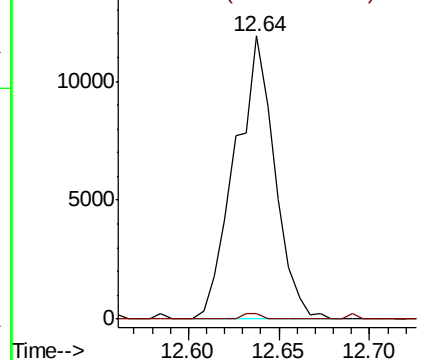
75 100

77 1.0 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: 133.002 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

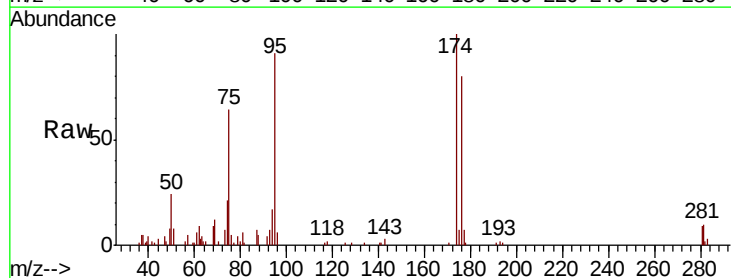
Tgt Ion: 75 Resp: 18076

Ion Ratio Lower Upper

75 100

53 0.0 75.0 112.6#

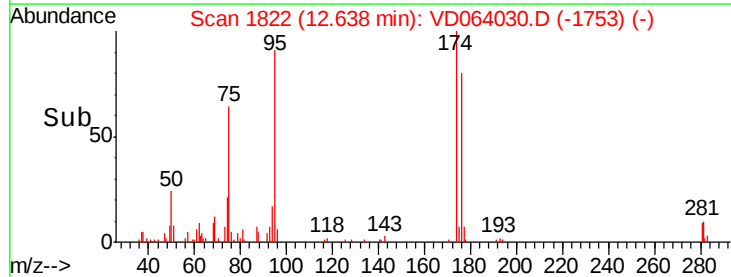
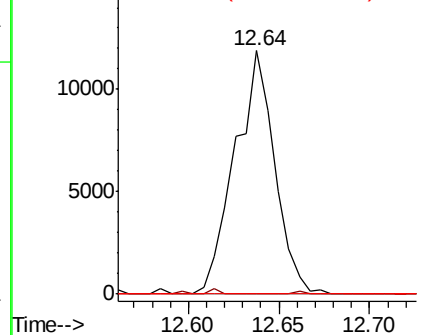
89 0.0 38.2 57.4#

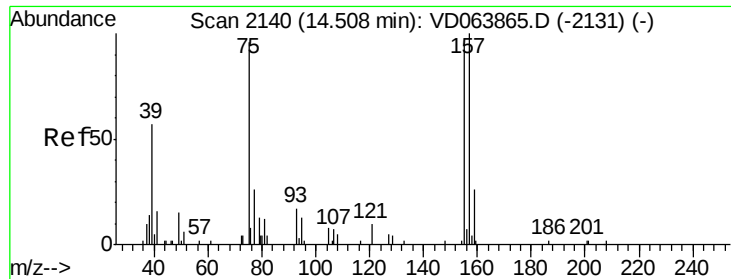


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 14.58 min Scan# 2152

Delta R.T. 0.07 min

Lab File: VD064030.D

Acq: 23 Oct 2019 19:37

Instrument :

MSVOA_D

ClientSampleId :

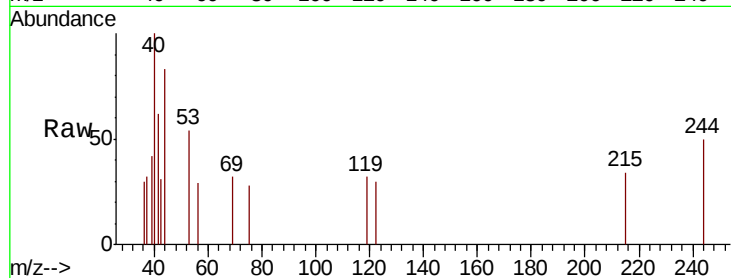
Tot Ion: 75 Resp: 55

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

