

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101019\
 Data File : VD063918.D
 Acq On : 10 Oct 2019 18:59
 Operator : VA/SY
 Sample : K5297-10
 Misc : 6.82G/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 11 07:41:21 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	165112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	296249	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	292088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	140780	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	89842	55.89	ug/l	0.00
Spiked Amount						
			Recovery	=	111.78%	
35) Dibromofluoromethane	7.92	113	95848	52.94	ug/l	0.00
Spiked Amount						
			Recovery	=	105.88%	
50) Toluene-d8	10.34	98	392064	53.35	ug/l	0.00
Spiked Amount						
			Recovery	=	106.70%	
62) 4-Bromofluorobenzene	12.63	95	117417	45.98	ug/l	0.00
Spiked Amount						
			Recovery	=	91.96%	

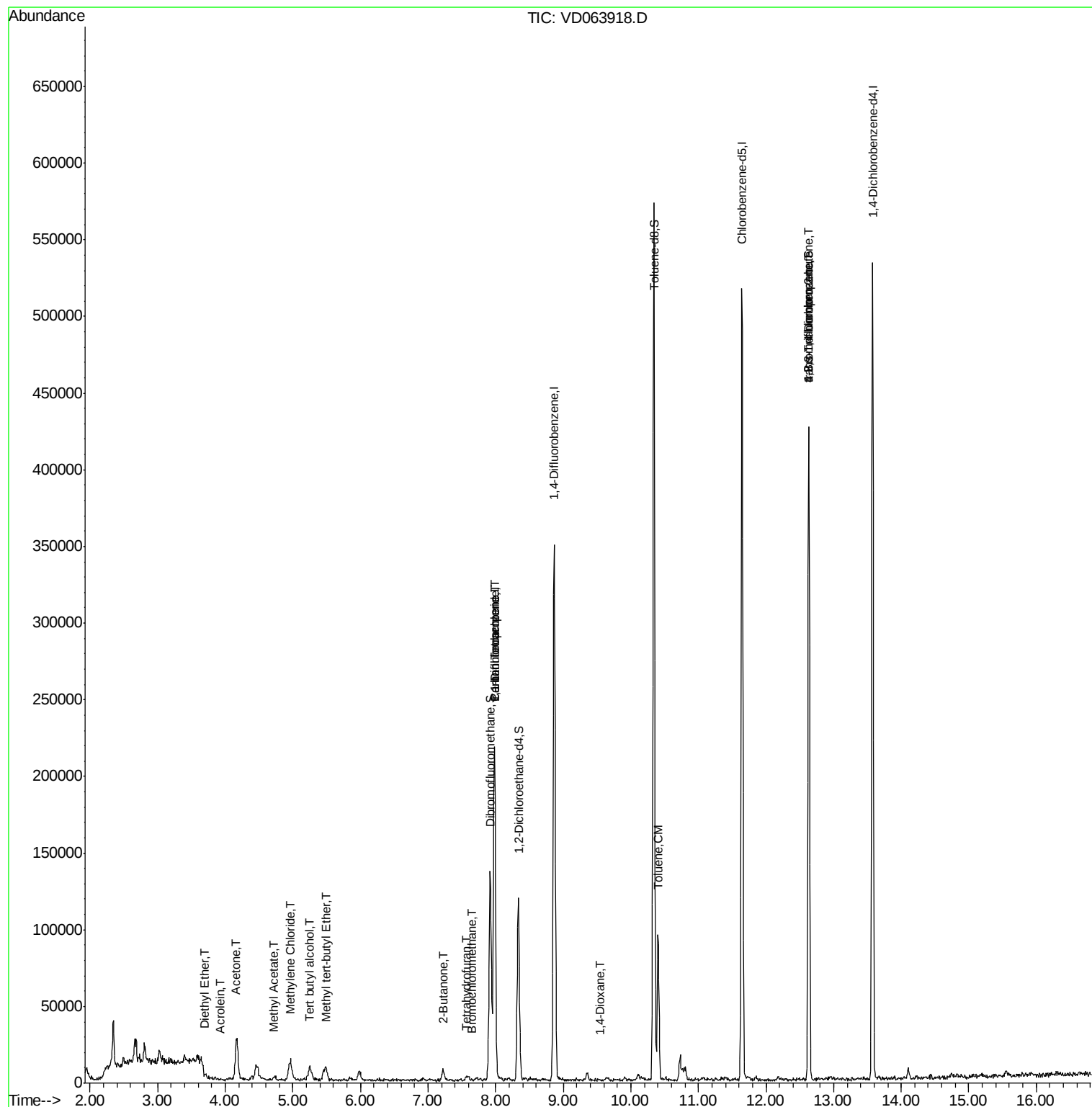
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.22	50	1023	Below Cal	#	40
8) Diethyl Ether	3.70	74	819	1.020	ug/l	69
11) Tert butyl alcohol	5.25	59	14600	126.783	ug/l #	81
13) Acrolein	3.93	56	156	1.087	ug/l #	82
16) Acetone	4.16	43	46255	110.521	ug/l	96
18) Methyl Acetate	4.71	43	1879	2.295	ug/l	97
19) Methyl tert-butyl Ether	5.50	73	4788	1.336	ug/l #	1
20) Methylene Chloride	4.96	84	9342	2.150	ug/l #	88
25) 2-Butanone	7.23	43	4281	8.631	ug/l #	70
28) Bromochloromethane	7.64	49	77	1.932	ug/l #	10
29) Tetrahydrofuran	7.57	42	1151	3.976	ug/l #	43
31) Cyclohexane	7.98	56	4206	Below Cal	#	58
36) 1,1-Dichloropropene	7.98	75	12720	4.696	ug/l #	45
37) Ethyl Acetate	7.23	43	4281	Below Cal	#	70
38) Carbon Tetrachloride	7.98	117	16590	6.061	ug/l #	20
49) 1,4-Dioxane	9.55	88	73	4.943	ug/l #	15
52) Toluene	10.40	92	38615	7.247	ug/l	99
76) 1,2,3-Trichloropropane	12.63	75	63832	67.697	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	63832	119.797	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.54	75	71	Below Cal	#	1

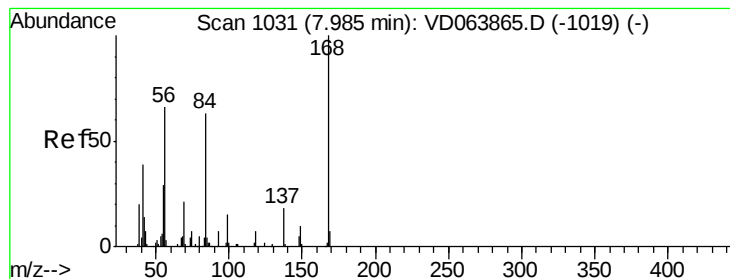
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD063918.D

Acq: 10 Oct 2019 18:59

Instrument :

MSVOA_D

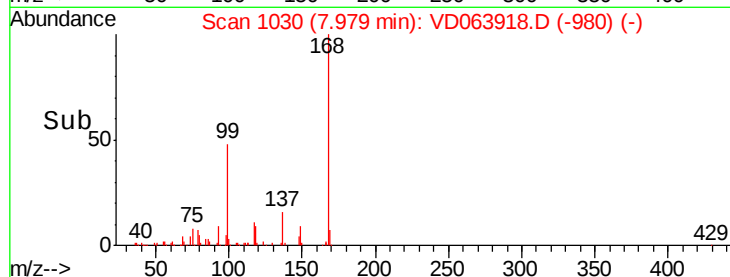
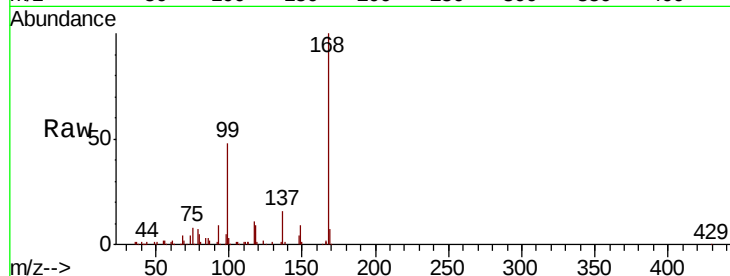
ClientSampleId :

Tot Ion:168 Resp: 165112

Ion Ratio Lower Upper

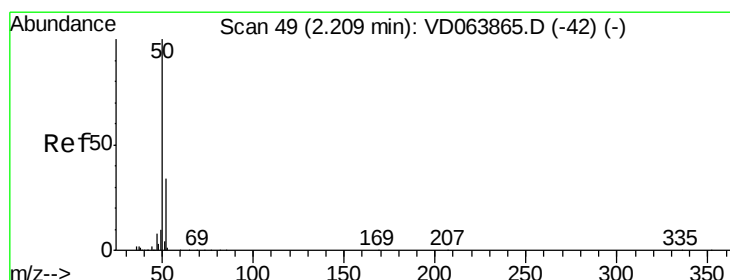
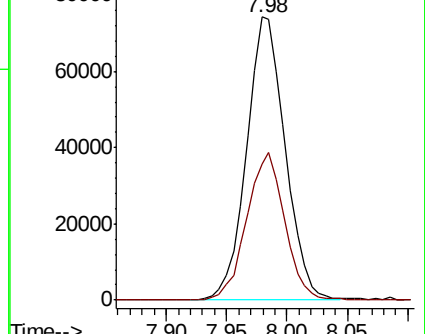
168 100

99 48.1 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: 2.22 min Scan# 51

Delta R.T. 0.01 min

Lab File: VD063918.D

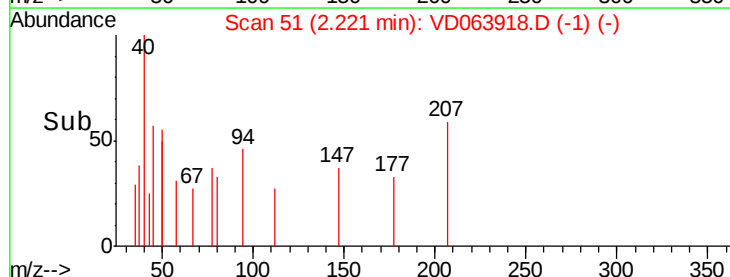
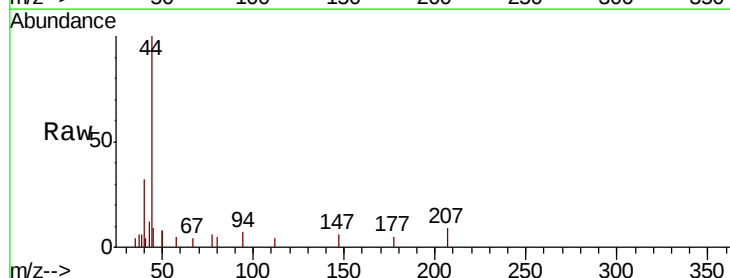
Acq: 10 Oct 2019 18:59

Tgt Ion: 50 Resp: 1023

Ion Ratio Lower Upper

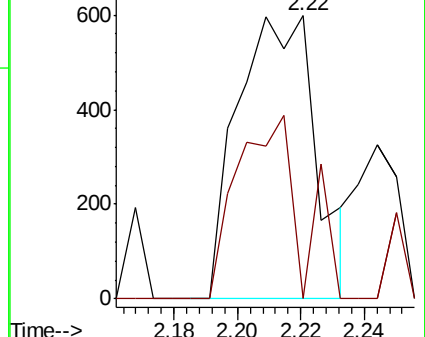
50 100

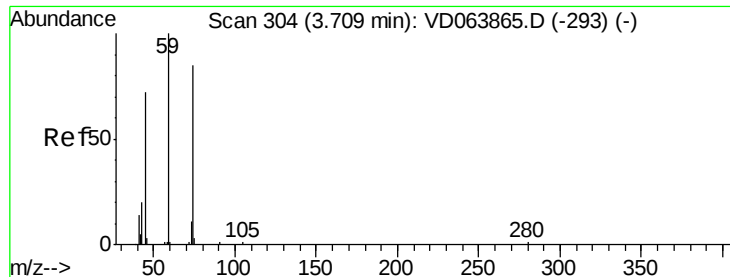
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#8

Diethyl Ether

Concen: 1.020 ug/l

RT: 3.70 min Scan# 302

Delta R.T. -0.01 min

Lab File: VD063918.D

Acq: 10 Oct 2019 18:59

Instrument :

MSVOA_D

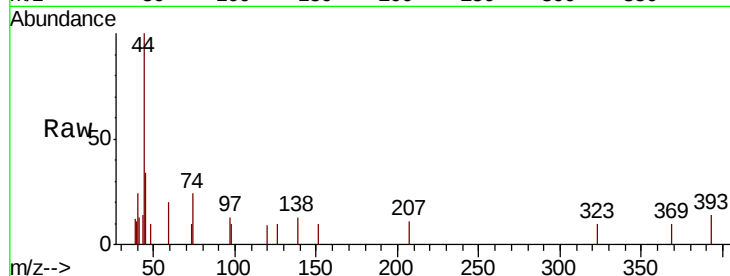
ClientSampleId :

Tot Ion: 74 Resp: 819

Ion Ratio Lower Upper

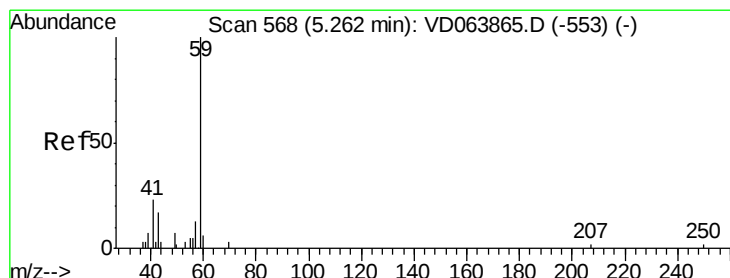
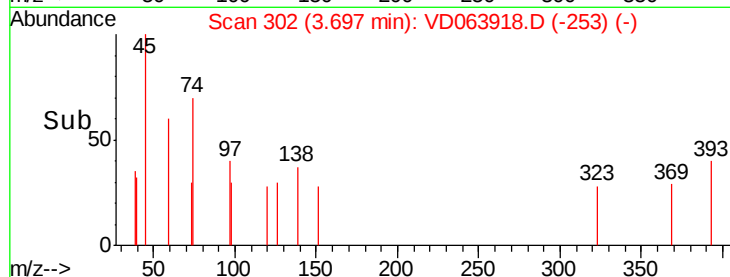
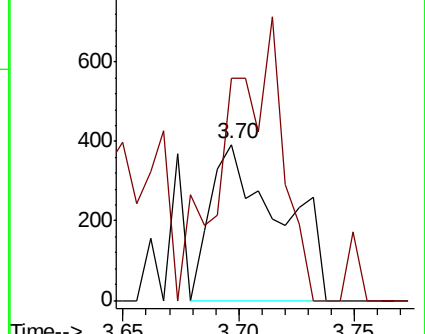
74 100

45 127.1 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC



#11

Tert butyl alcohol

Concen: 126.783 ug/l

RT: 5.25 min Scan# 566

Delta R.T. -0.01 min

Lab File: VD063918.D

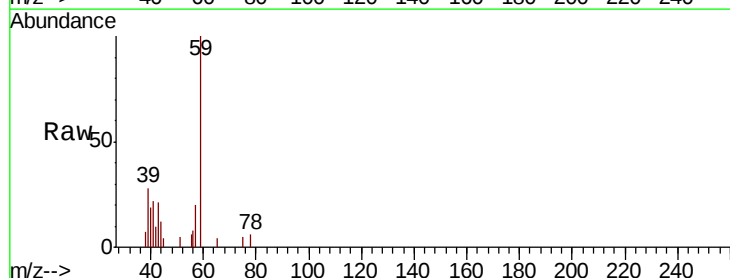
Acq: 10 Oct 2019 18:59

Tgt Ion: 59 Resp: 14600

Ion Ratio Lower Upper

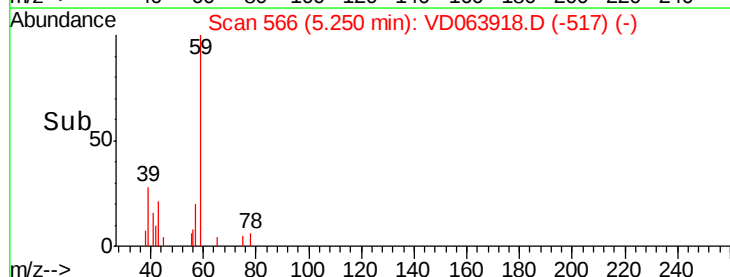
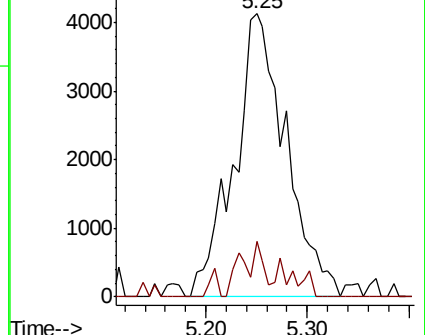
59 100

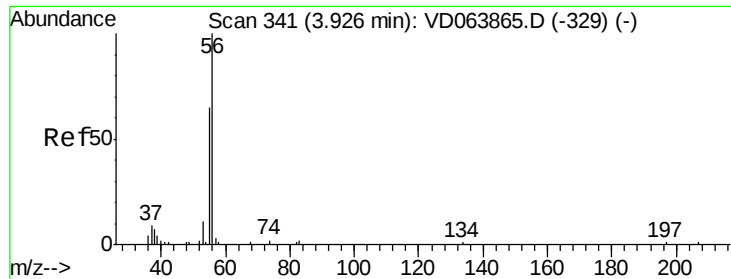
57 3.7 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

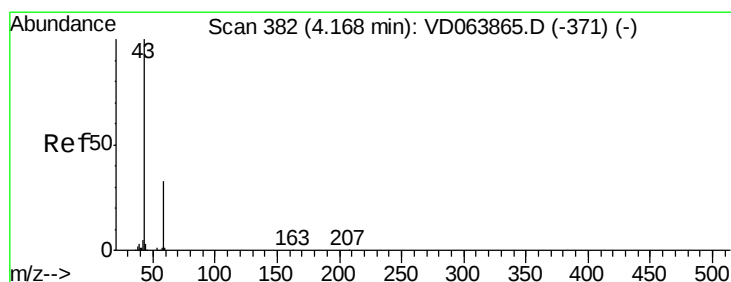
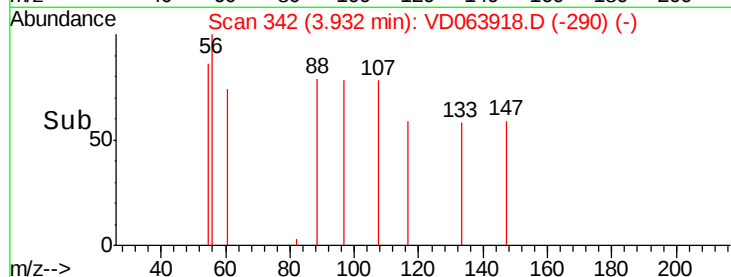
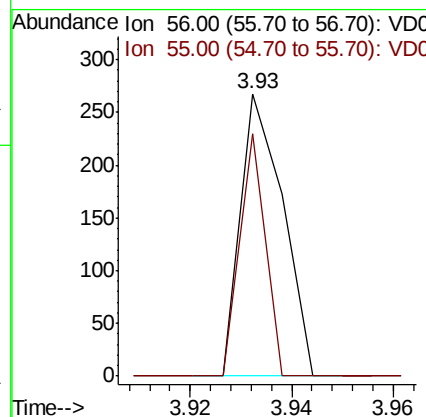
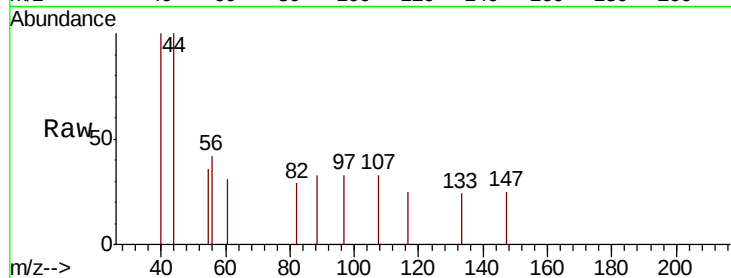




#13
Acrolein
Concen: 1.087 ug/l
RT: 3.93 min Scan# 342
Delta R.T. 0.01 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

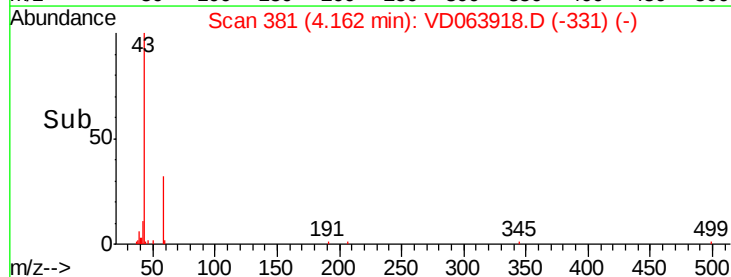
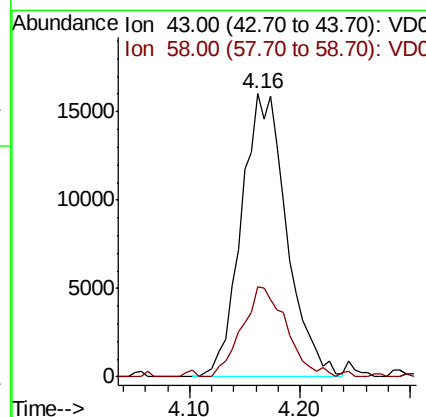
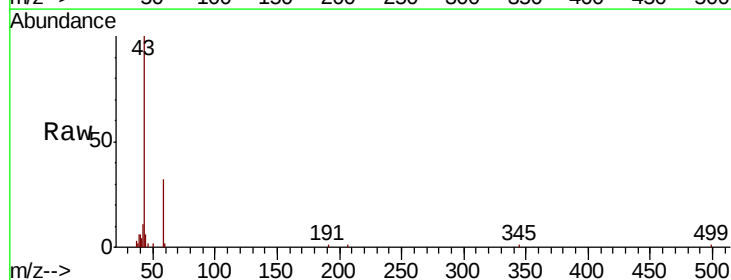
Instrument :
MSVOA_D
ClientSampleId :

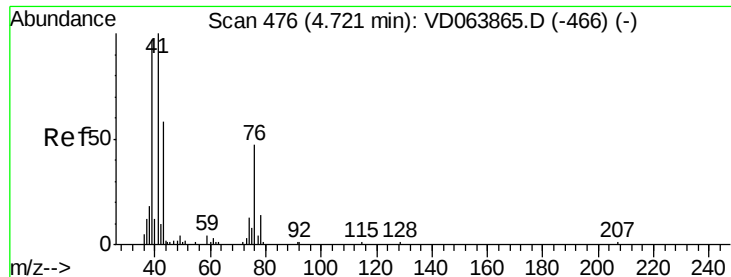
Tot Ion: 56 Resp: 156
Ion Ratio Lower Upper
56 100
55 51.9 53.0 79.6#



#16
Acetone
Concen: 110.521 ug/l
RT: 4.16 min Scan# 381
Delta R.T. -0.01 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

Tgt Ion: 43 Resp: 46255
Ion Ratio Lower Upper
43 100
58 30.6 26.2 39.4

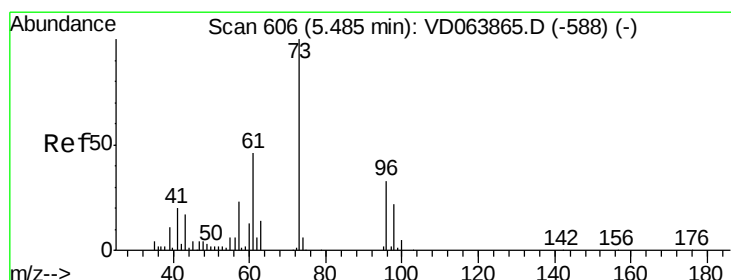
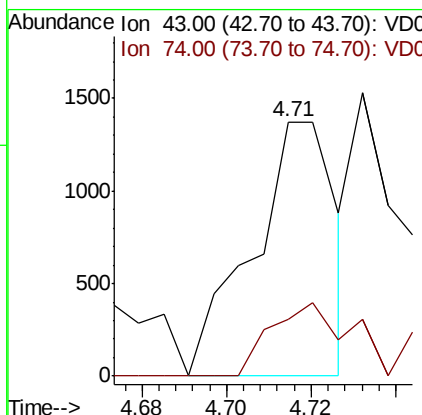
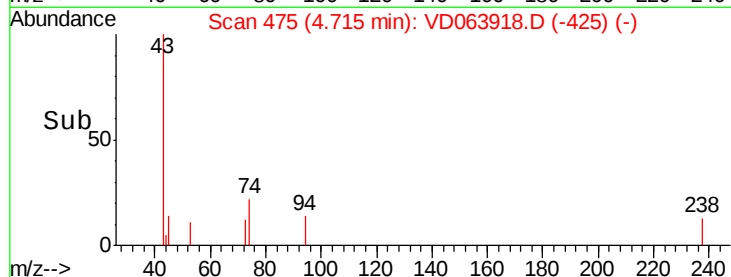
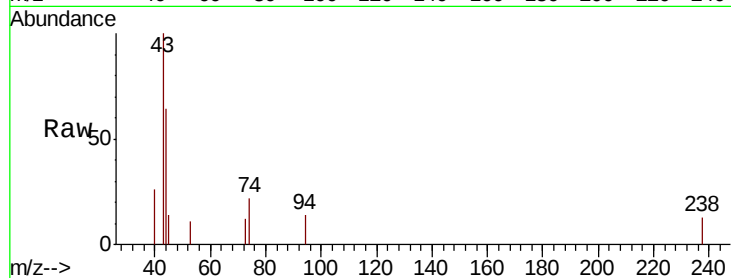




#18
Methyl Acetate
Concen: 2.295 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

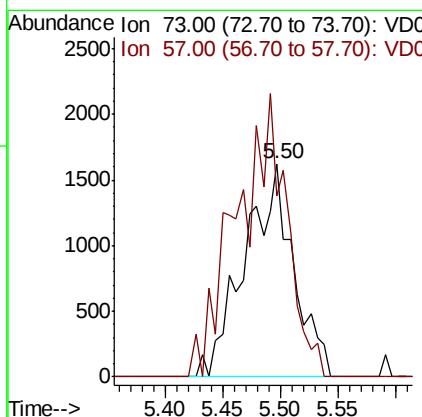
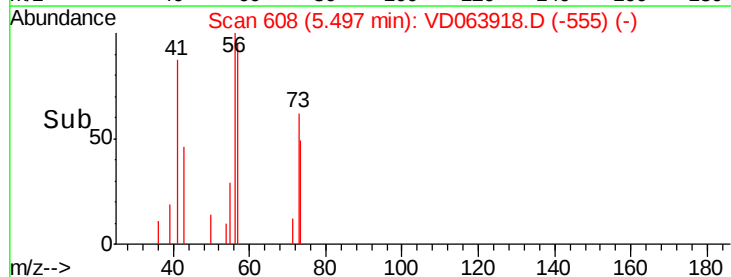
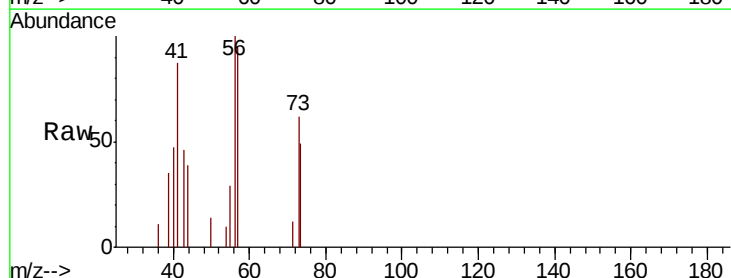
Instrument :
MSVOA_D
ClientSampled :

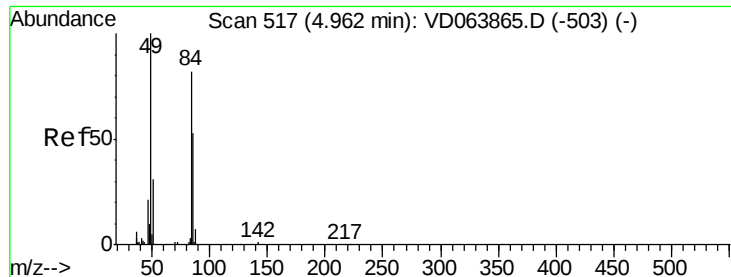
Tot Ion: 43 Resp: 1879
Ion Ratio Lower Upper
43 100
74 27.3 20.8 31.2



#19
Methyl tert-butyl Ether
Concen: 1.336 ug/l
RT: 5.50 min Scan# 608
Delta R.T. 0.01 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

Tgt Ion: 73 Resp: 4788
Ion Ratio Lower Upper
73 100
57 85.0 18.1 27.1#

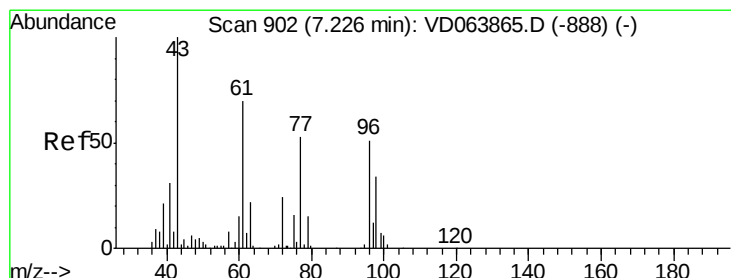
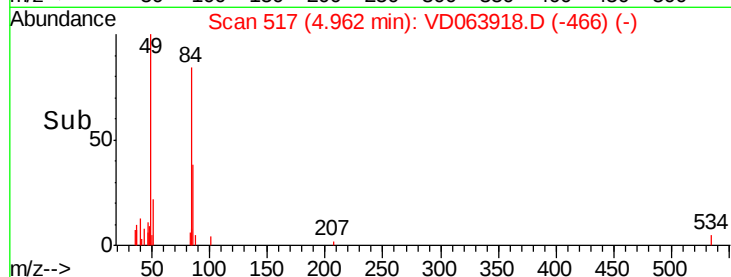
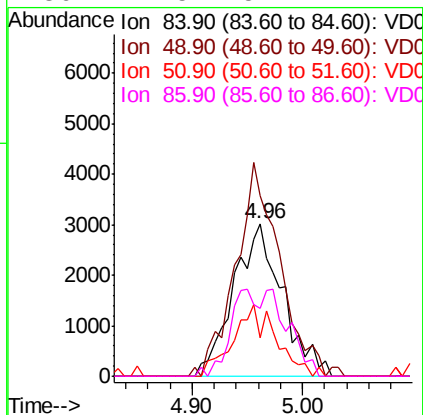
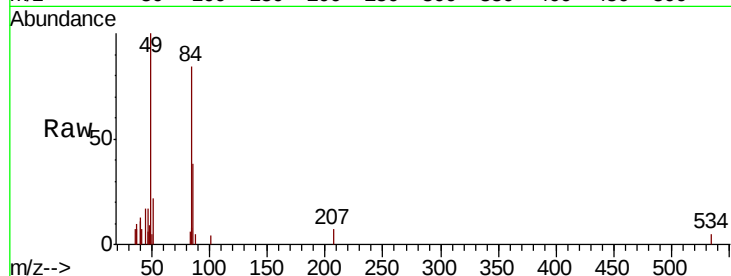




#20
Methvlene Chloride
Concen: 2.150 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

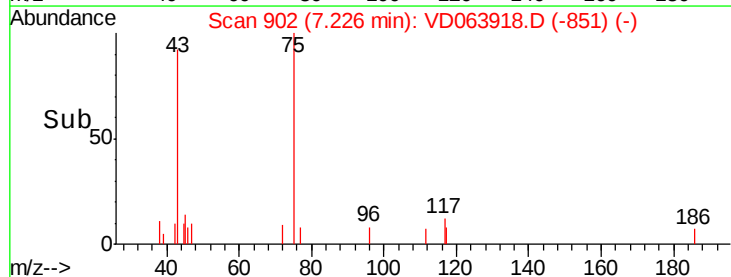
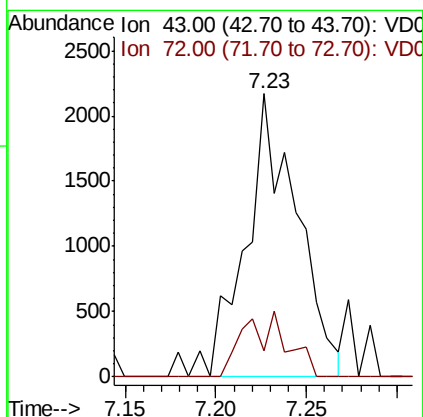
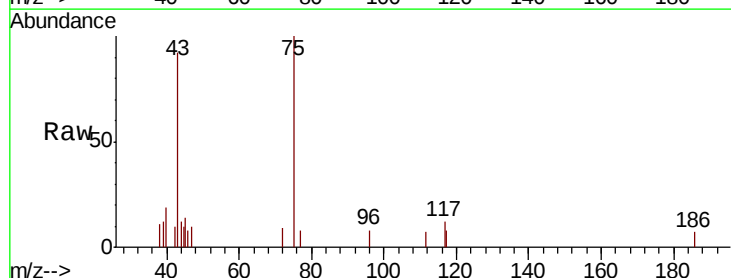
Instrument :
MSVOA_D
ClientSampleId :

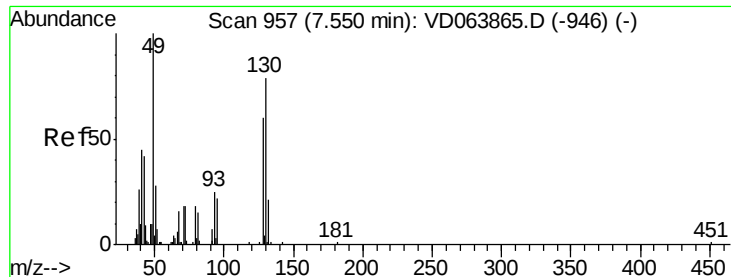
Tot Ion: 84 Resp: 9342
Ion Ratio Lower Upper
84 100
49 118.7 97.3 145.9
51 25.6 30.1 45.1#
86 44.5 51.4 77.2#



#25
2-Butanone
Concen: 8.631 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.00 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

Tgt Ion: 43 Resp: 4281
Ion Ratio Lower Upper
43 100
72 9.4 19.2 28.8#

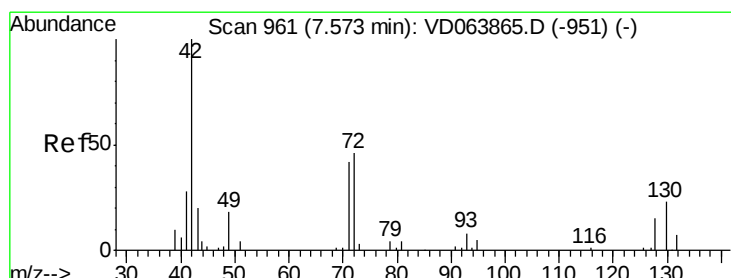
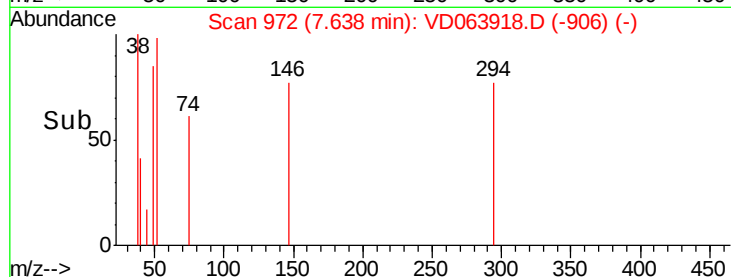
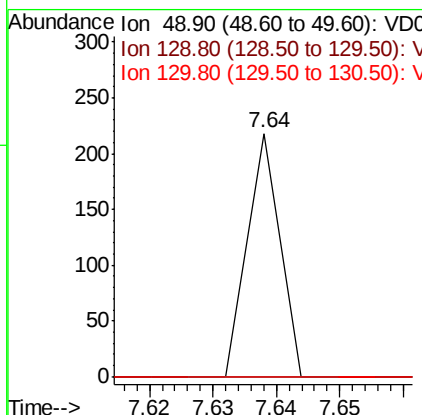
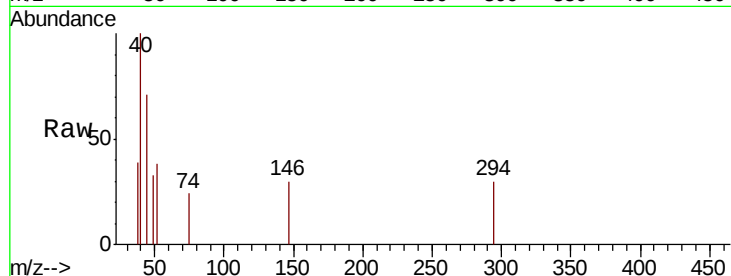




#28
Bromochloromethane
Concen: 1.932 ug/l
RT: 7.64 min Scan# 972
Delta R.T. 0.09 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

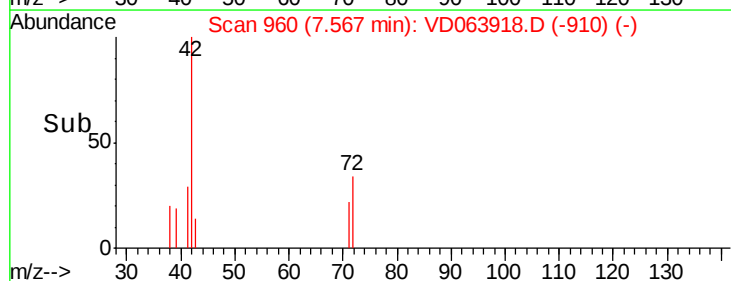
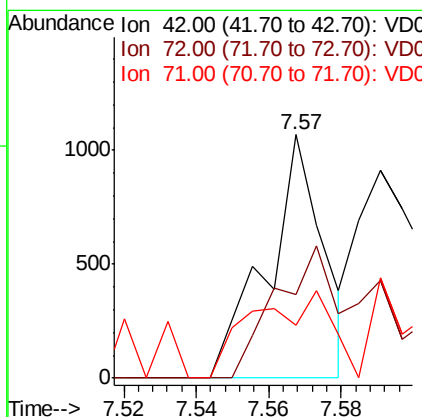
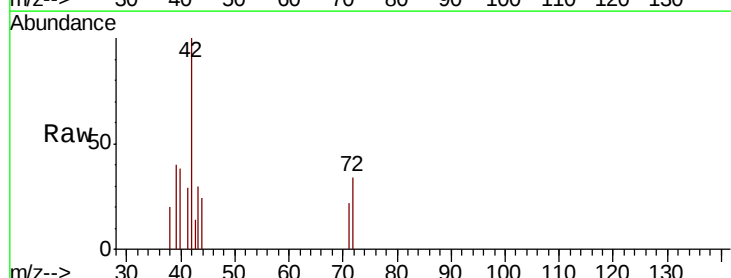
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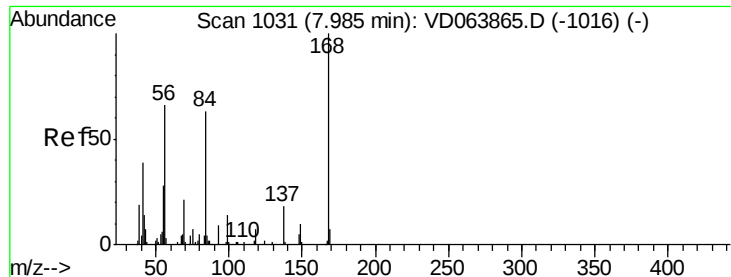
Tot Ion: 49 Resp: 77
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 0.0 66.8 100.2#



#29
Tetrahydrofuran
Concen: 3.976 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

Tgt Ion: 42 Resp: 1151
Ion Ratio Lower Upper
42 100
72 114.3 37.6 56.4#
71 49.9 35.0 52.6

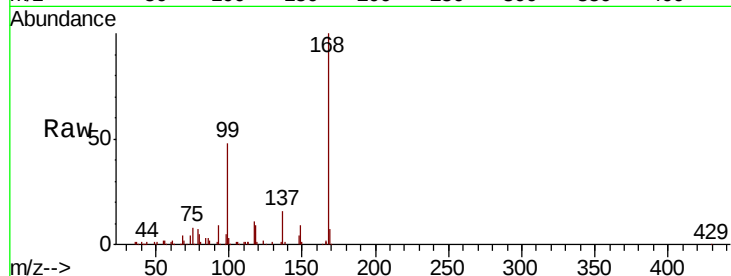




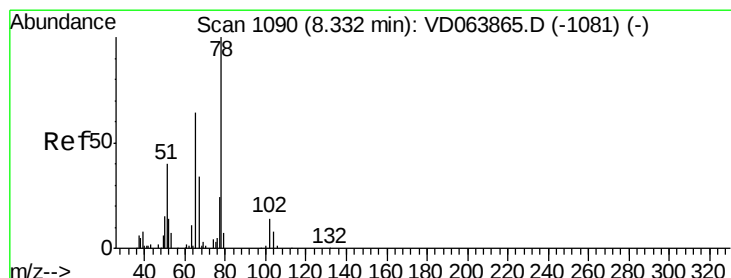
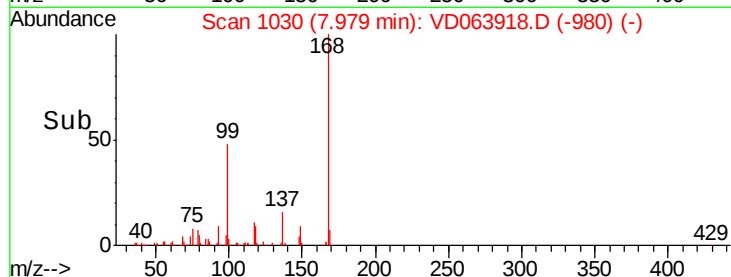
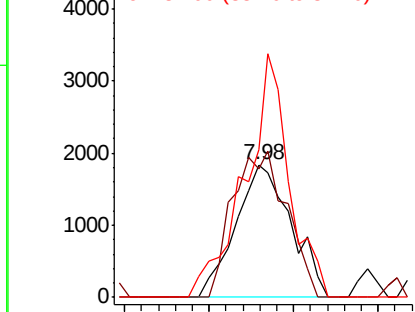
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 4206
Ion Ratio Lower Upper
56 100
69 97.2 25.0 37.4#
84 111.5 76.3 114.5

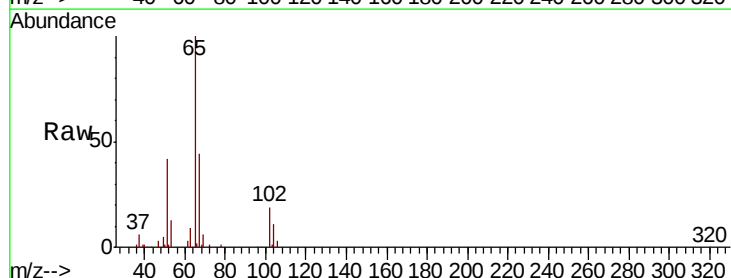


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

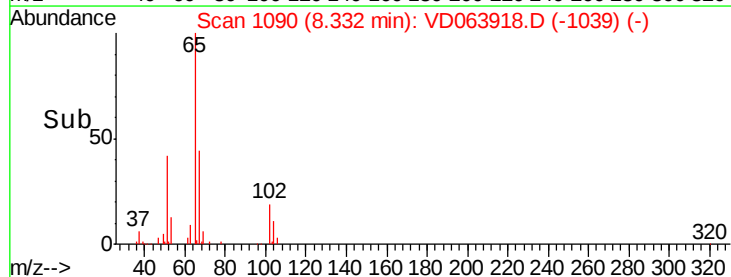
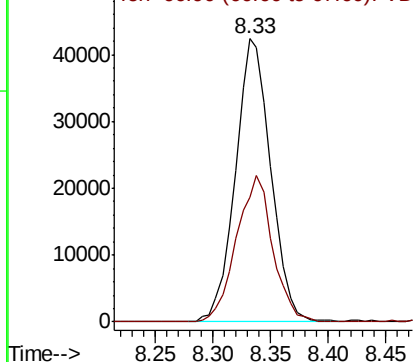


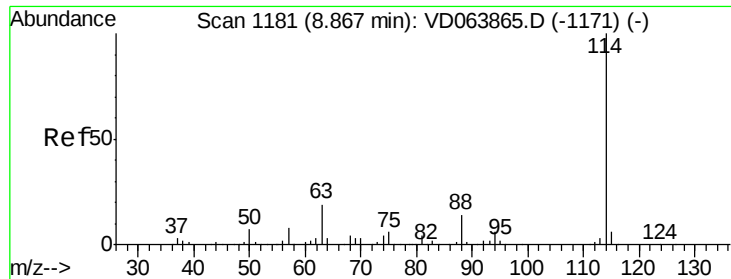
#33
1,2-Dichloroethane-d4
Concen: 55.890 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

Tgt Ion: 65 Resp: 89842
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.4



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

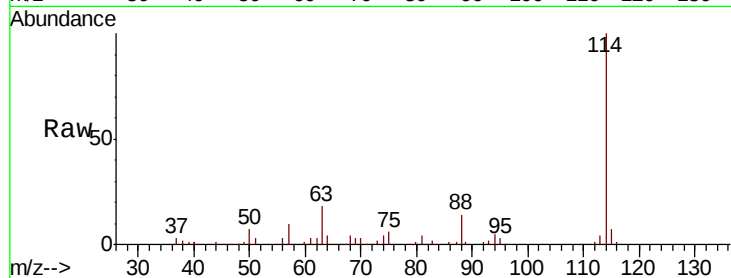




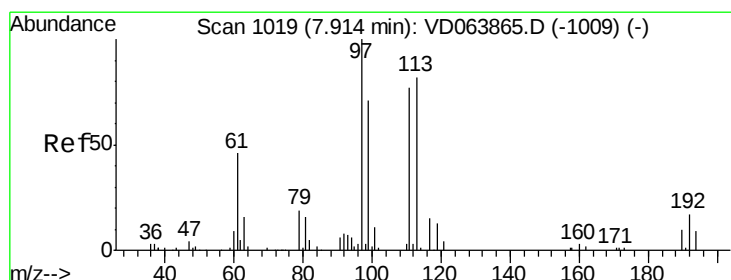
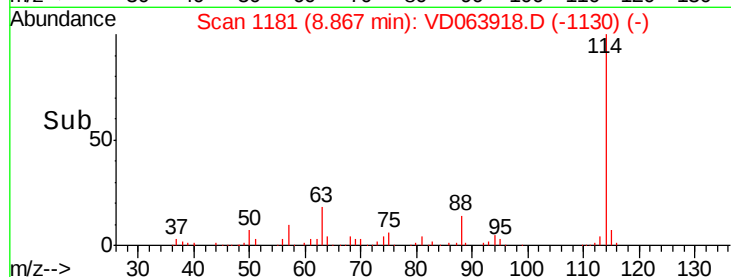
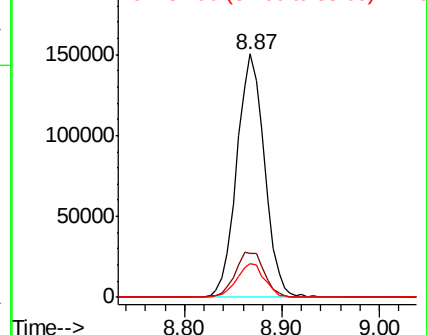
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 296249
Ion Ratio Lower Upper
114 100
63 17.9 0.0 38.4
88 13.8 0.0 27.4

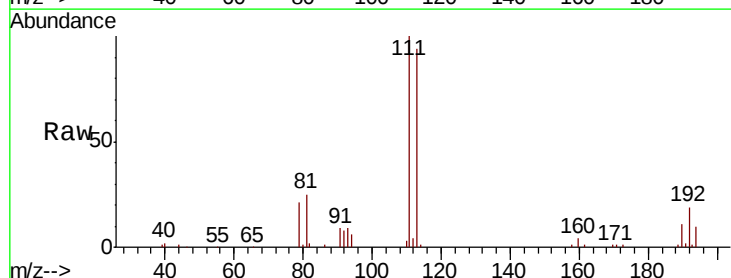


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

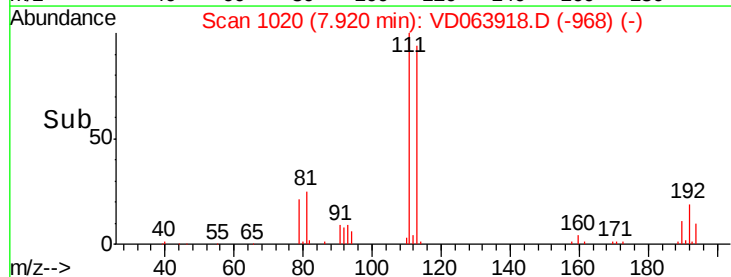
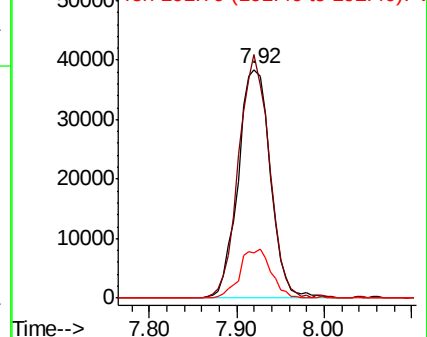


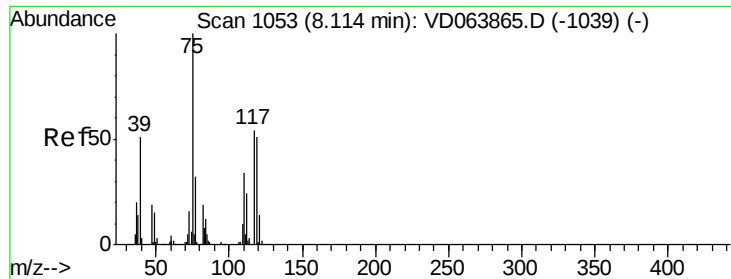
#35
Dibromofluoromethane
Concen: 52.941 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD063918.D
Acq: 10 Oct 2019 18:59

Tgt Ion:113 Resp: 95848
Ion Ratio Lower Upper
113 100
111 100.9 82.6 123.8
192 20.7 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

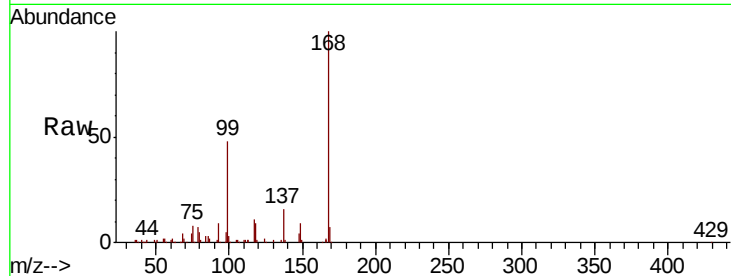




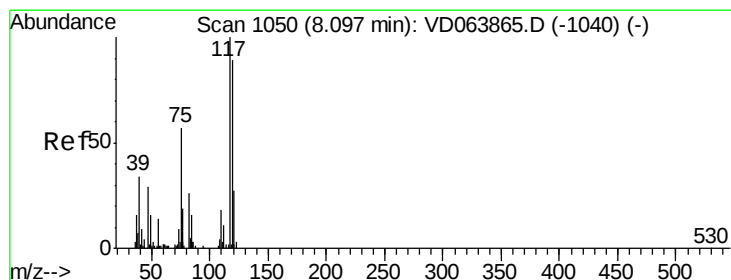
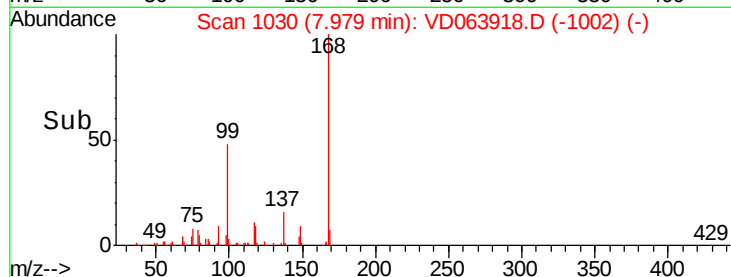
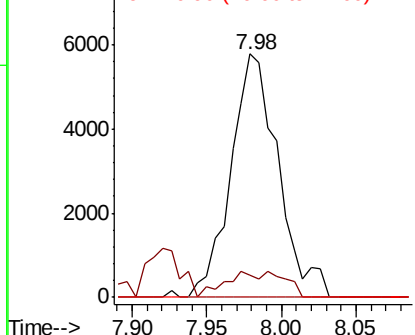
#36
 1,1-Dichloropropene
 Concen: 4.696 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD063918.D
 Acq: 10 Oct 2019 18:59

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	75	Resp	12720
Ion Ratio	Lower	Upper	
75	100		
110	3.9	17.4	52.3#
77	0.0	25.4	38.0#

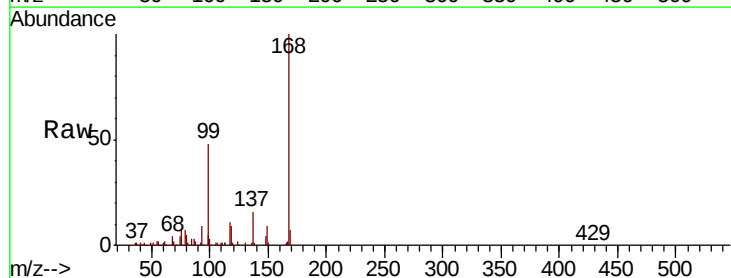


Abundance Ion 74.90 (74.60 to 75.60): VD063918.D (-1039) (-)
 Ion 109.90 (109.60 to 110.60): VD063918.D (-1039) (-)
 Ion 76.90 (76.60 to 77.60): VD063918.D (-1039) (-)

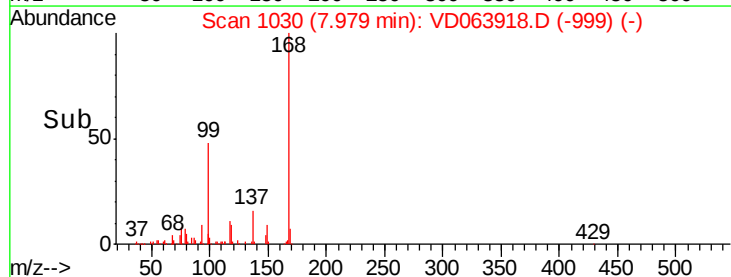
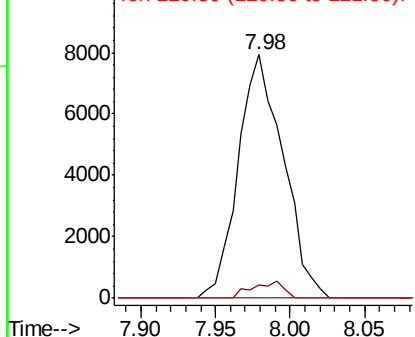


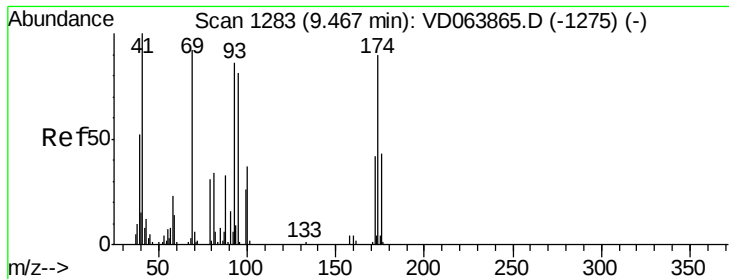
#38
 Carbon Tetrachloride
 Concen: 6.061 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD063918.D
 Acq: 10 Oct 2019 18:59

Tgt Ion	117	Resp	16590
Ion Ratio	Lower	Upper	
117	100		
119	5.5	70.8	106.2#
121	0.0	21.4	32.0#



Abundance Ion 116.80 (116.50 to 117.50): VD063918.D (-1040) (-)
 Ion 118.80 (118.50 to 119.50): VD063918.D (-1040) (-)
 Ion 120.80 (120.50 to 121.50): VD063918.D (-1040) (-)

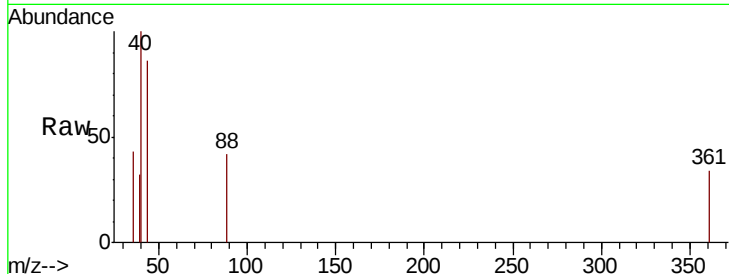




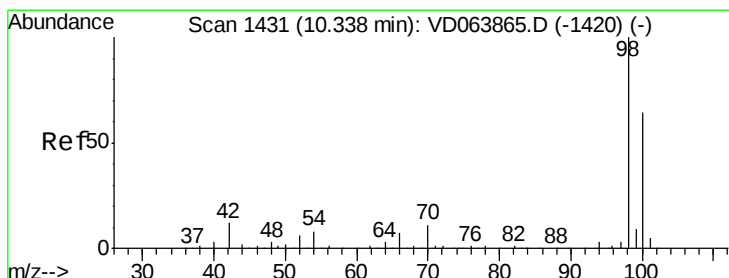
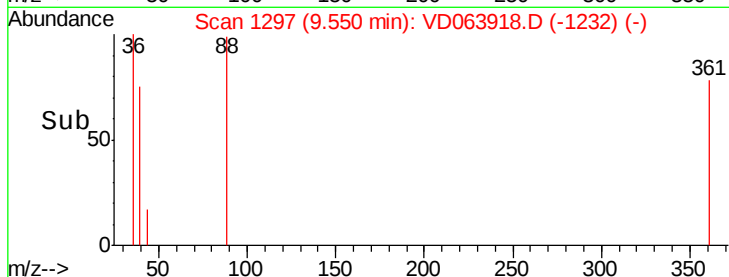
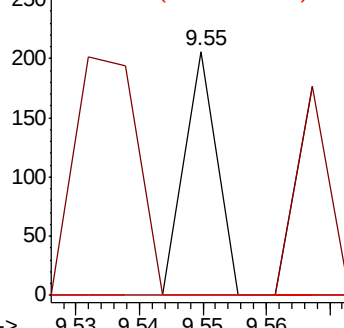
#49
 1,4-Dioxane
 Concen: 4.943 ug/l
 RT: 9.55 min Scan# 1297
 Delta R.T. 0.08 min
 Lab File: VD063918.D
 Acq: 10 Oct 2019 18:59

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 88 Resp: 73
 Ion Ratio Lower Upper
 88 100
 43 84.9 27.6 41.4#
 58 0.0 54.1 81.1#

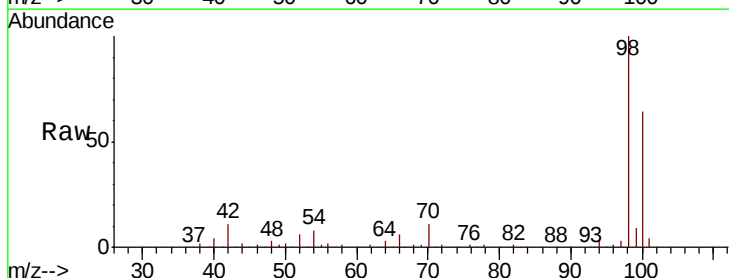


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

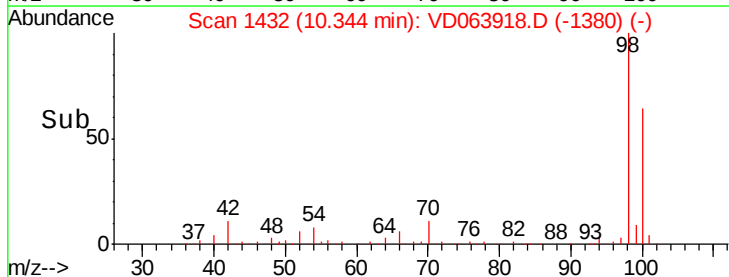
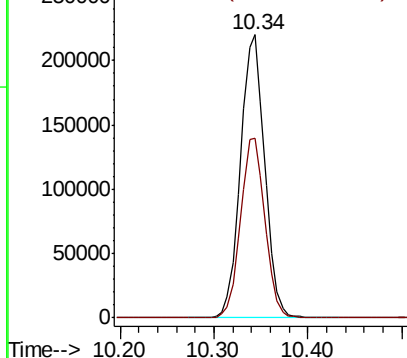


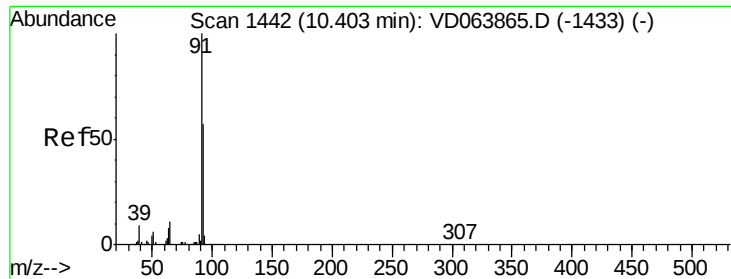
#50
 Toluene-d8
 Concen: 53.354 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VD063918.D
 Acq: 10 Oct 2019 18:59

Tgt Ion: 98 Resp: 392064
 Ion Ratio Lower Upper
 98 100
 100 63.9 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
 Ion 100.00 (99.70 to 100.70): VDC





#52

Toluene

Concen: 7.247 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD063918.D

Acq: 10 Oct 2019 18:59

Instrument :

MSVOA_D

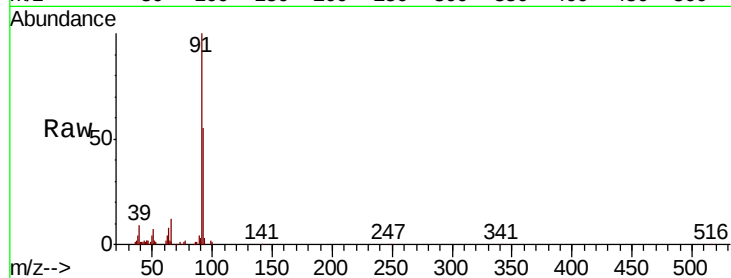
ClientSampleId :

Tot Ion: 92 Resp: 38615

Ion Ratio Lower Upper

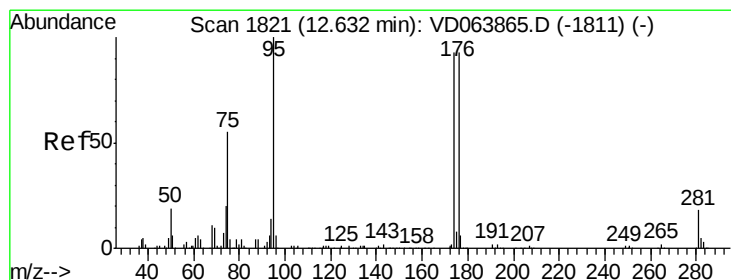
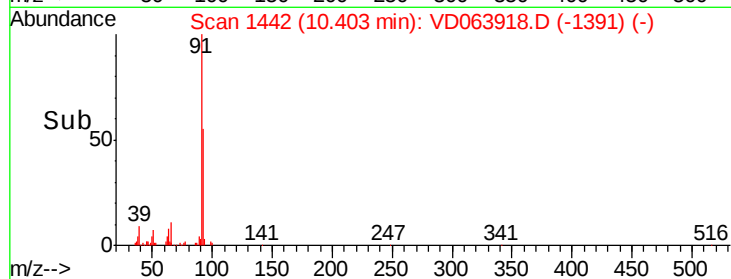
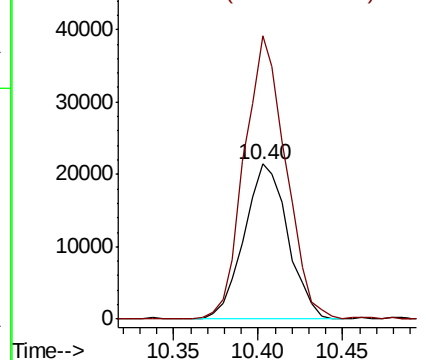
92 100

91 173.5 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 45.982 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063918.D

Acq: 10 Oct 2019 18:59

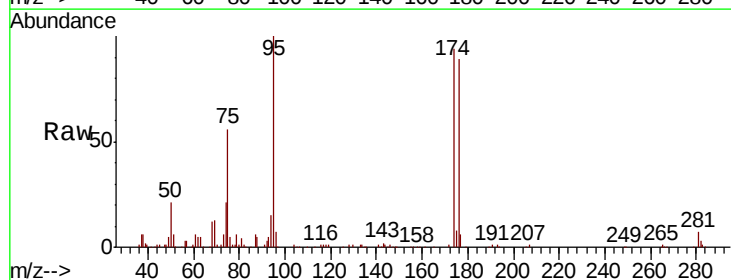
Tgt Ion: 95 Resp: 117417

Ion Ratio Lower Upper

95 100

174 99.2 0.0 186.4

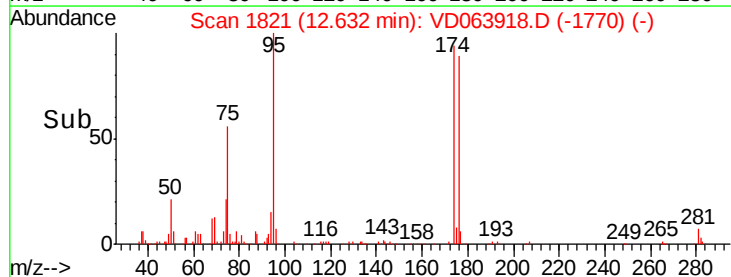
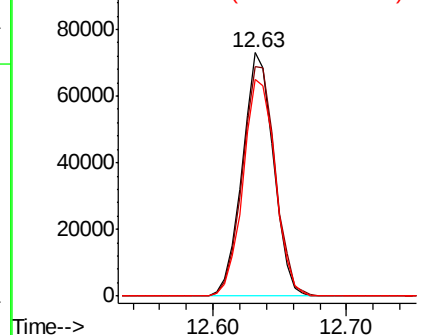
176 91.8 0.0 184.2

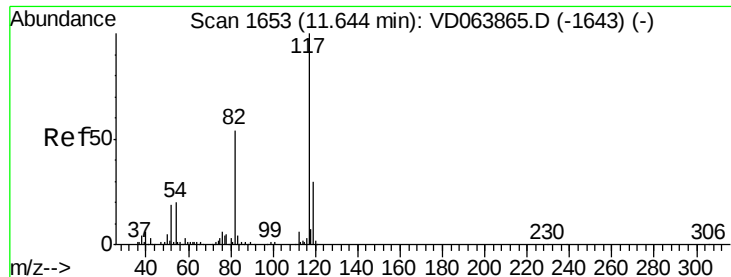


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD063918.D

Acq: 10 Oct 2019 18:59

Instrument :

MSVOA_D

ClientSampleId :

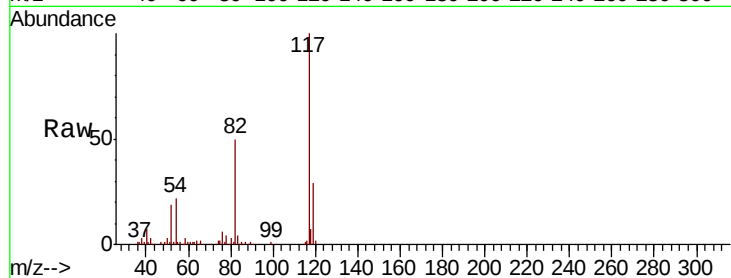
Tot Ion:117 Resp: 292088

Ion Ratio Lower Upper

117 100

82 50.3 42.8 64.2

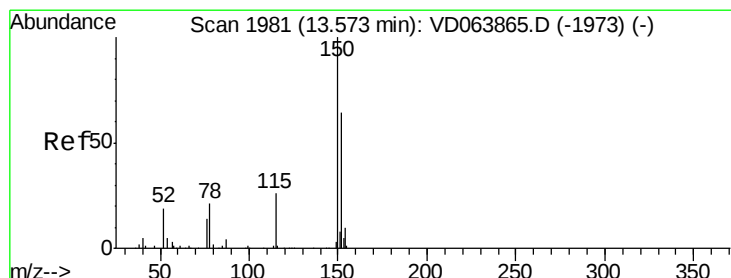
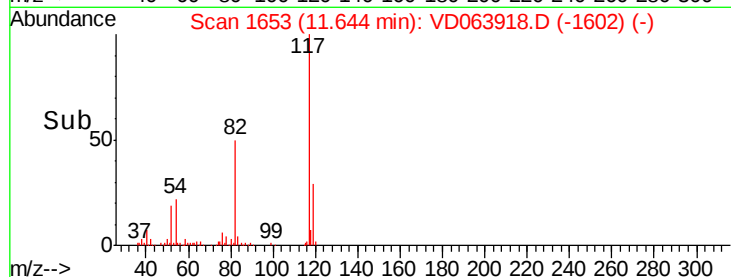
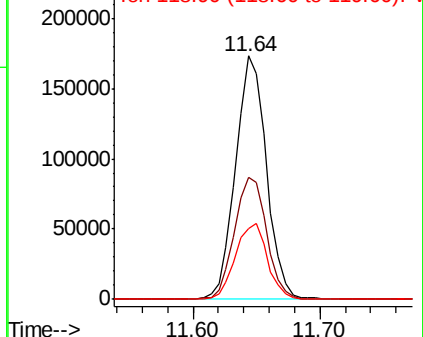
119 29.2 24.4 36.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD063918.D

Acq: 10 Oct 2019 18:59

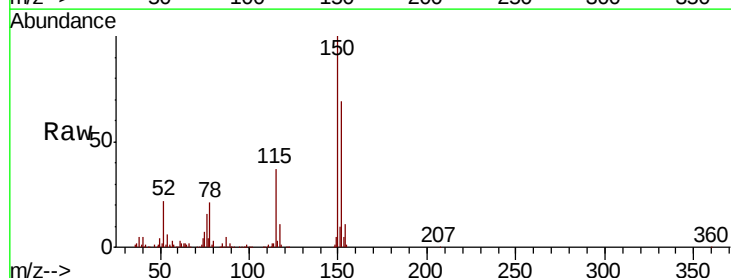
Tgt Ion:152 Resp: 140780

Ion Ratio Lower Upper

152 100

115 54.4 25.9 77.7

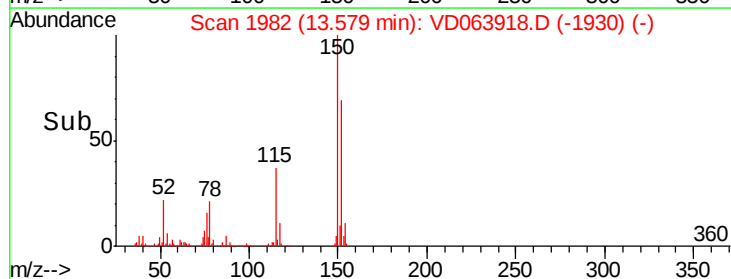
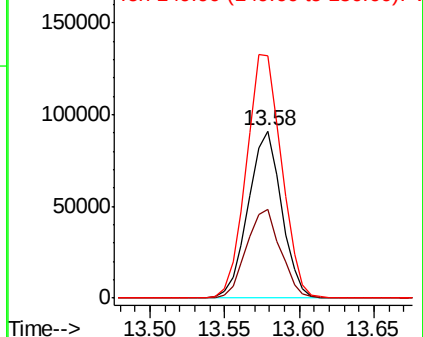
150 153.5 0.0 344.2

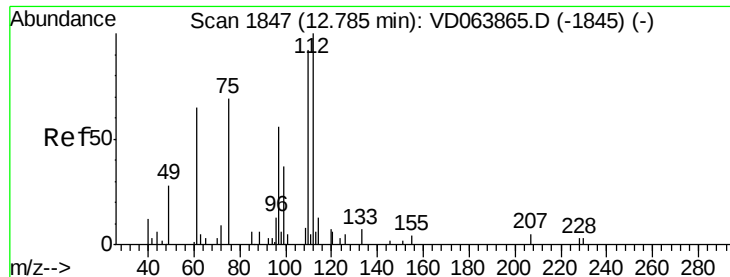


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 67.697 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063918.D

Acq: 10 Oct 2019 18:59

Instrument :

MSVOA_D

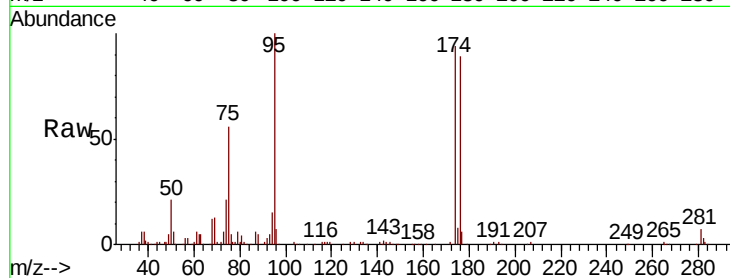
ClientSampleId :

Tot Ion: 75 Resp: 63832

Ion Ratio Lower Upper

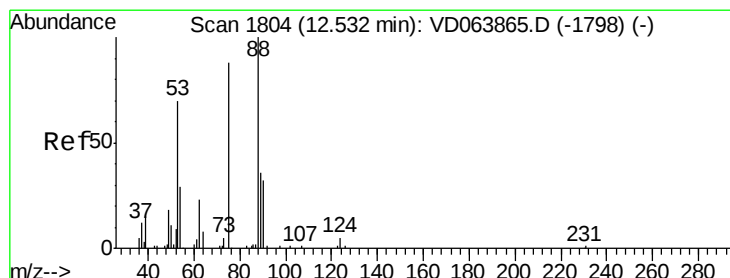
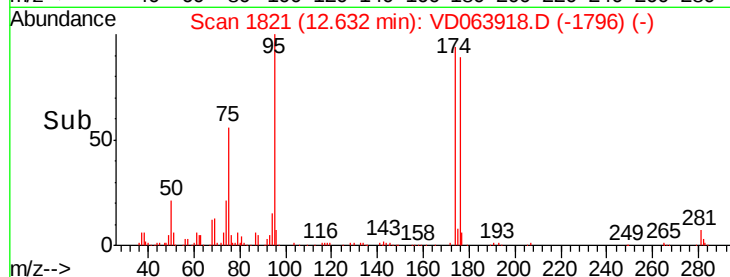
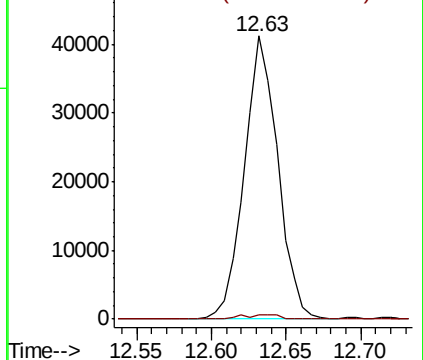
75 100

77 1.8 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: 119.797 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063918.D

Acq: 10 Oct 2019 18:59

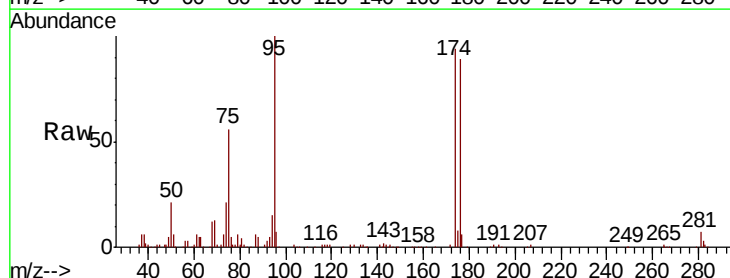
Tgt Ion: 75 Resp: 63832

Ion Ratio Lower Upper

75 100

53 0.1 75.0 112.6#

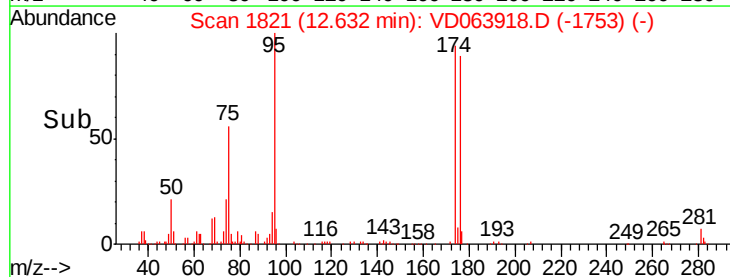
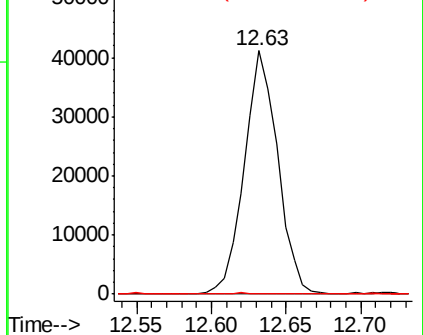
89 0.1 38.2 57.4#

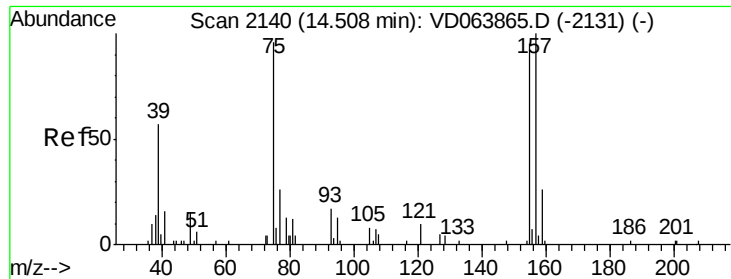


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 14.54 min Scan# 2146

Delta R.T. 0.04 min

Lab File: VD063918.D

Acq: 10 Oct 2019 18:59

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#

