

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102519\
 Data File : VD064077.D
 Acq On : 25 Oct 2019 20:48
 Operator : VA/SY
 Sample : K5541-20
 Misc : 7.77G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 26 00:07:25 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	143261	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	254215	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	264633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	128245	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	77354	55.46	ug/l	0.00
Spiked Amount			Recovery	=	110.92%	
35) Dibromofluoromethane	7.91	113	79542	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
50) Toluene-d8	10.34	98	345263	54.75	ug/l	0.00
Spiked Amount			Recovery	=	109.50%	
62) 4-Bromofluorobenzene	12.64	95	101791	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	

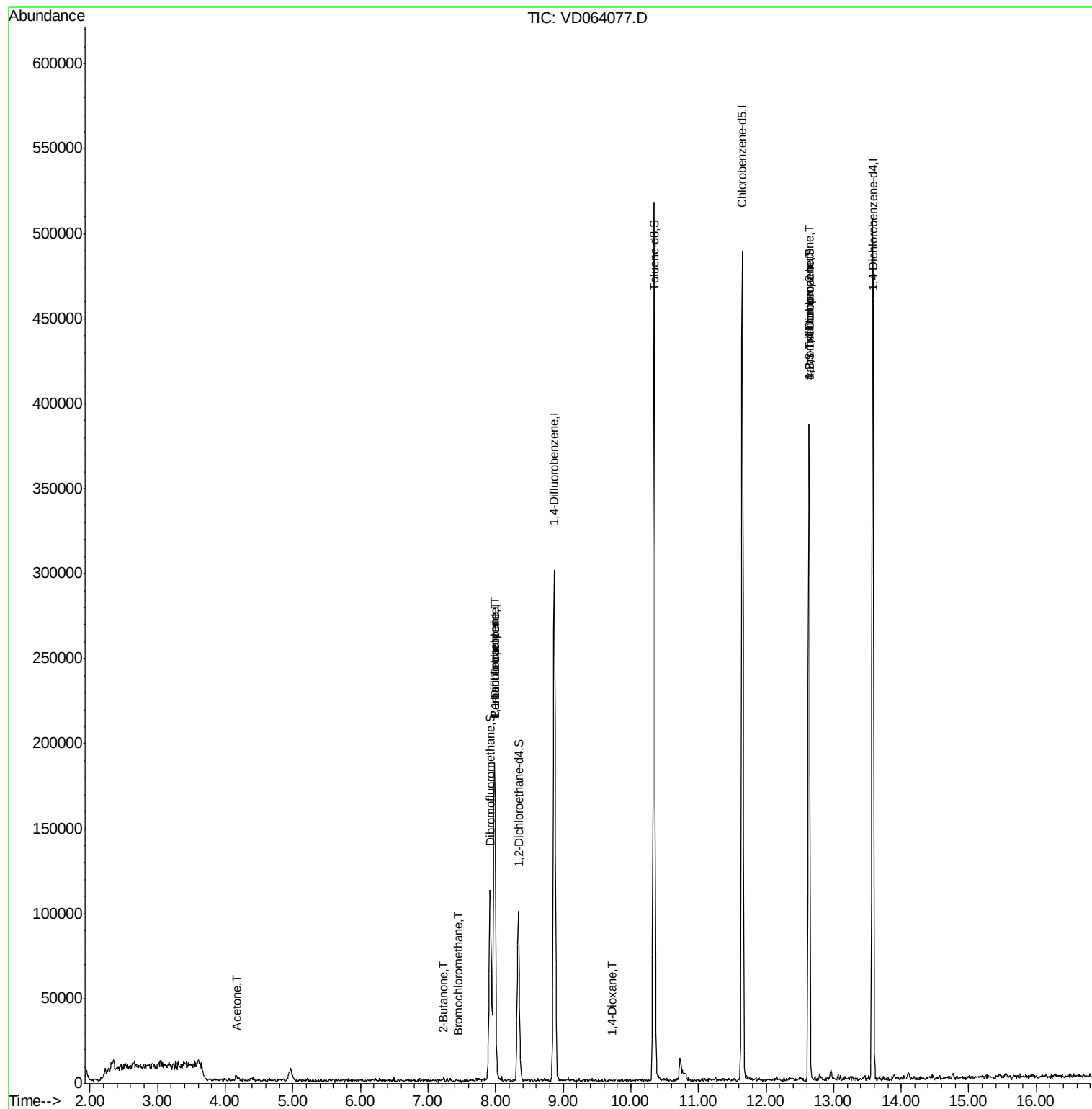
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	372	Below Cal	#	34
11) Tert butyl alcohol	5.27	59	57	Below Cal	#	1
16) Acetone	4.17	43	4868	13.406	ug/l	94
25) 2-Butanone	7.23	43	1672	3.885	ug/l	97
28) Bromochloromethane	7.44	49	122	1.987	ug/l #	10
31) Cyclohexane	7.99	56	3755	Below Cal	#	47
36) 1,1-Dichloropropene	7.98	75	11962	5.146	ug/l #	52
37) Ethyl Acetate	7.28	43	430	Below Cal	#	68
38) Carbon Tetrachloride	7.99	117	14563	6.200	ug/l #	18
49) 1,4-Dioxane	9.72	88	58	4.576	ug/l #	24
76) 1,2,3-Trichloropropane	12.64	75	57321	66.734	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	57321	118.092	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.47	75	74	Below Cal	#	1

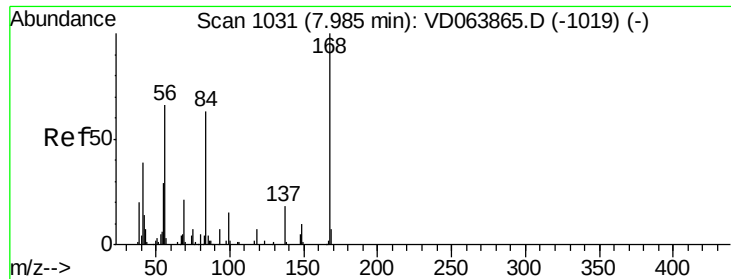
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102519\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

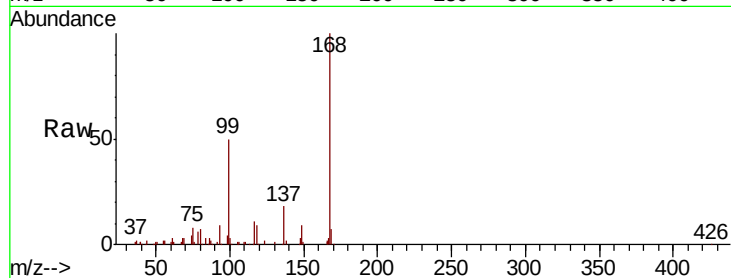
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 143261

Ion Ratio Lower Upper

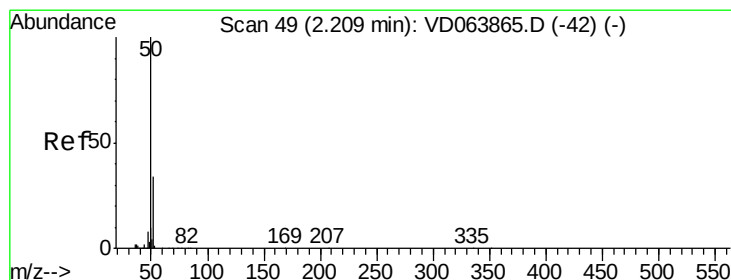
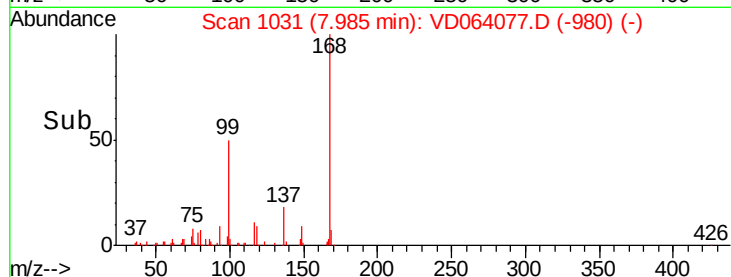
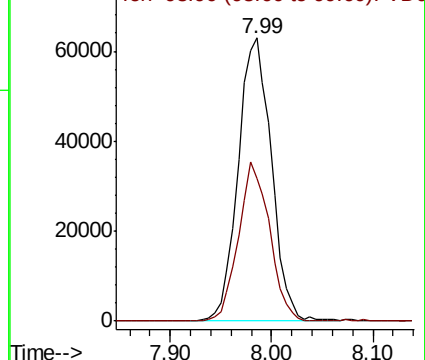
168 100

99 50.5 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: VD064077.D

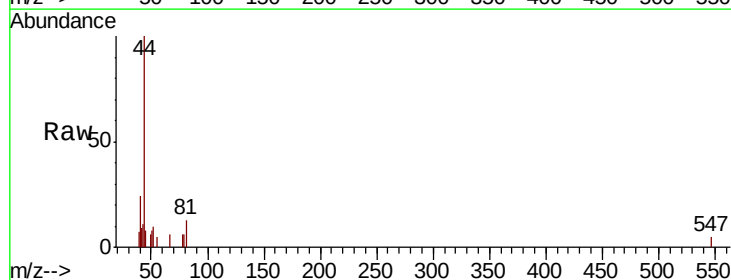
Acq: 25 Oct 2019 20:48

Tgt Ion: 50 Resp: 372

Ion Ratio Lower Upper

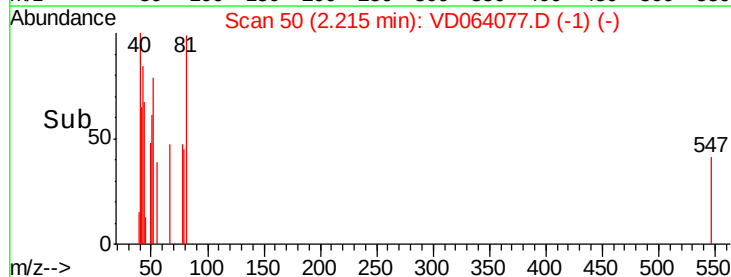
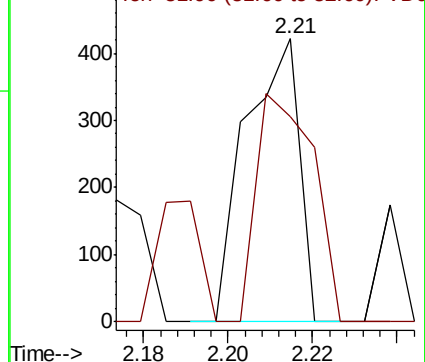
50 100

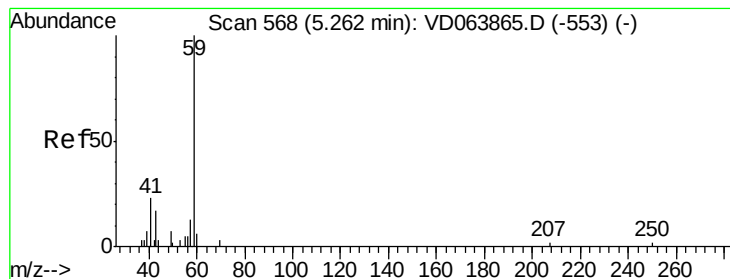
52 72.3 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



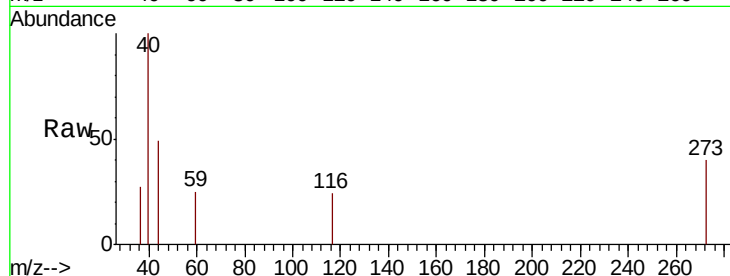


#11

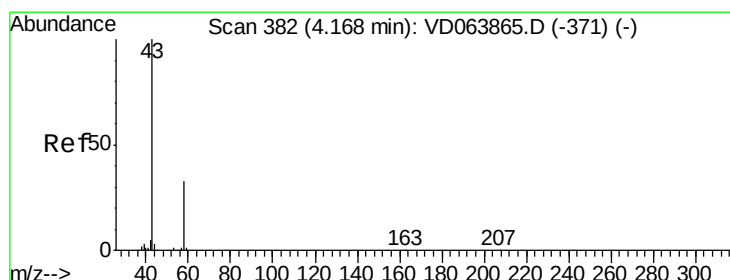
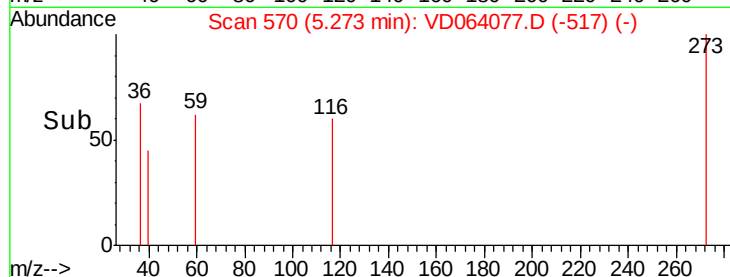
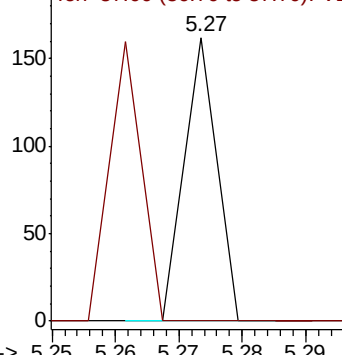
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.27 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VD064077.D
 Acq: 25 Oct 2019 20:48

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 57
 Ion Ratio Lower Upper
 59 100
 57 98.2 8.8 13.2#



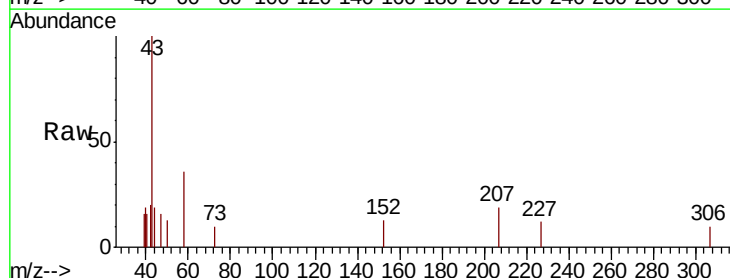
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



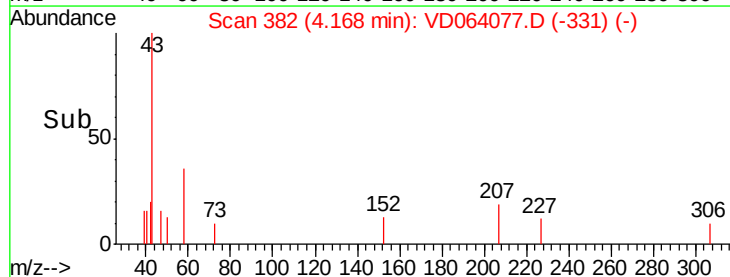
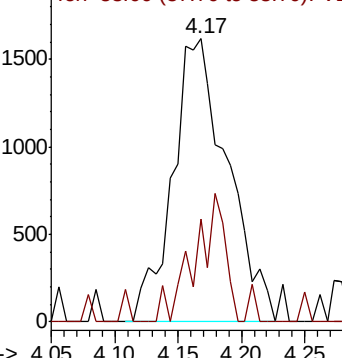
#16

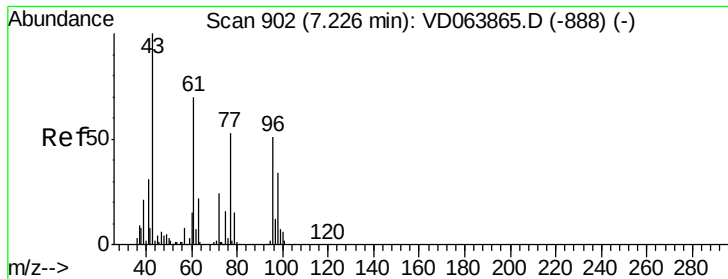
Acetone
 Concen: 13.406 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VD064077.D
 Acq: 25 Oct 2019 20:48

Tgt Ion: 43 Resp: 4868
 Ion Ratio Lower Upper
 43 100
 58 36.3 26.2 39.4



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





#25

2-Butanone

Concen: 3.885 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

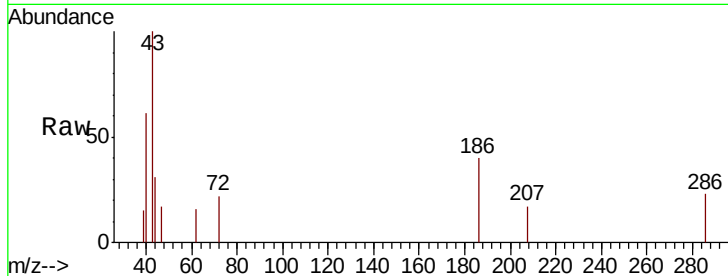
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 1672

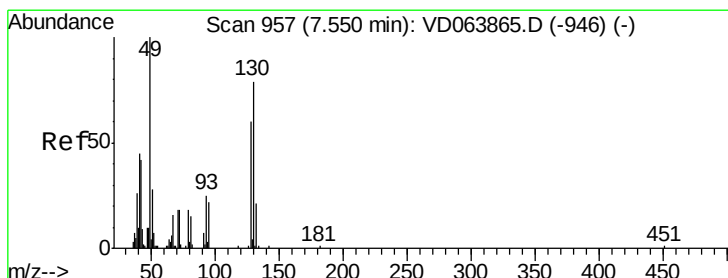
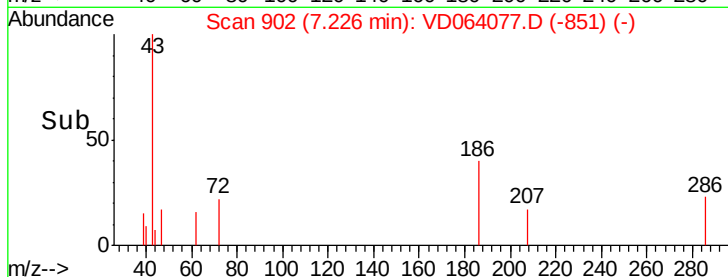
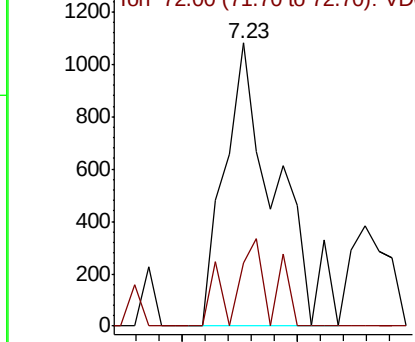
Ion Ratio Lower Upper

43 100

72 22.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 1.987 ug/l

RT: 7.44 min Scan# 939

Delta R.T. -0.11 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

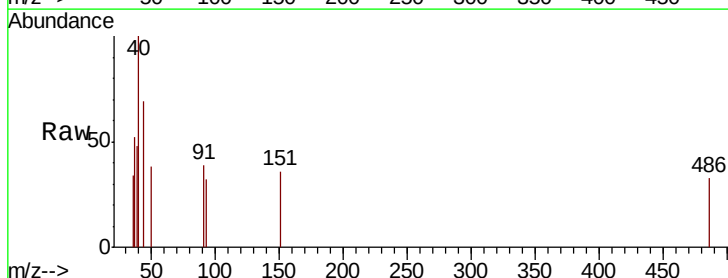
Tgt Ion: 49 Resp: 122

Ion Ratio Lower Upper

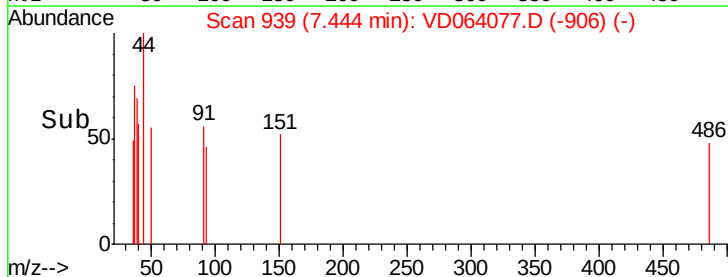
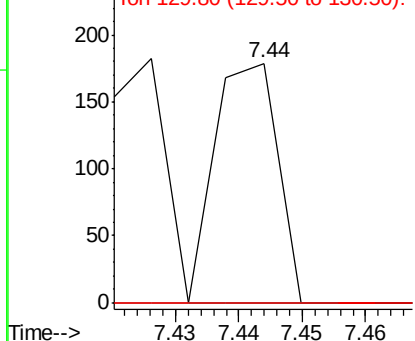
49 100

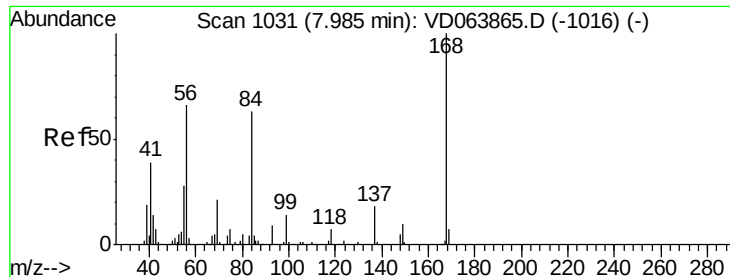
129 0.0 0.0 5.6

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

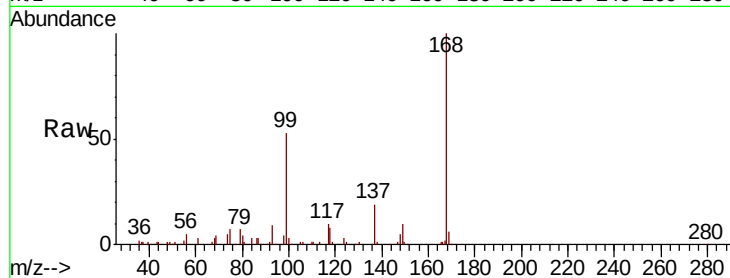




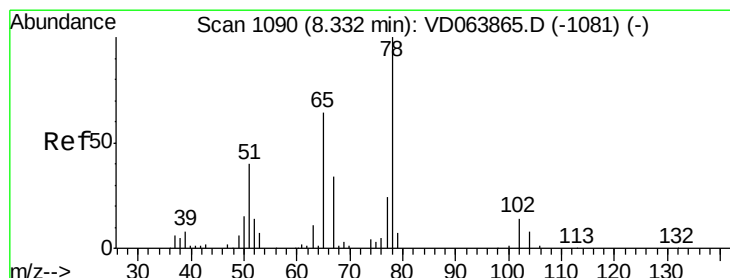
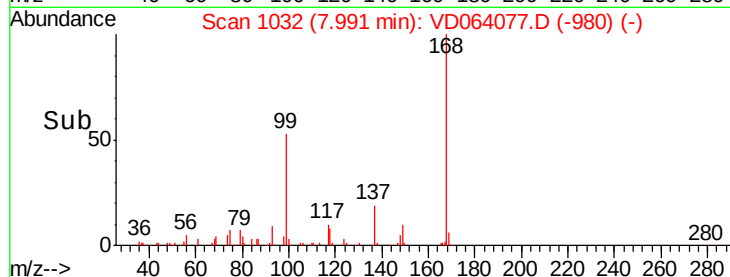
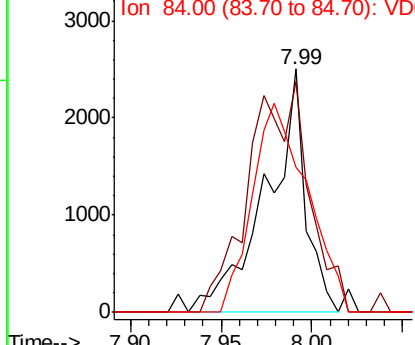
#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD064077.D
Acq: 25 Oct 2019 20:48

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 3755
Ion Ratio Lower Upper
56 100
69 87.7 25.0 37.4#
84 59.7 76.3 114.5#

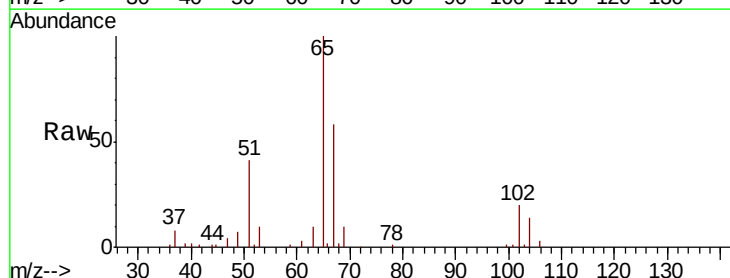


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

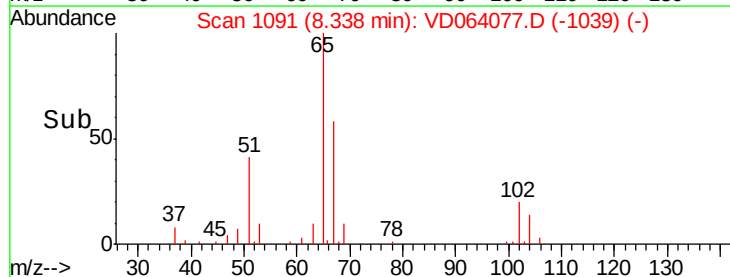
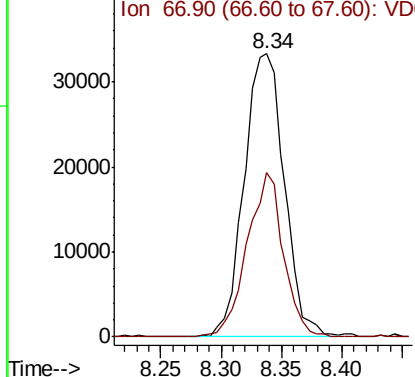


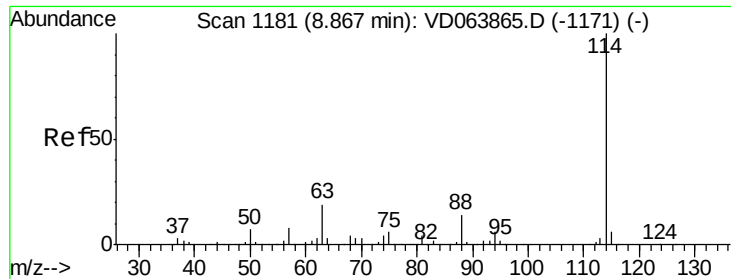
#33
1,2-Dichloroethane-d4
Concen: 55.461 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064077.D
Acq: 25 Oct 2019 20:48

Tgt Ion: 65 Resp: 77354
Ion Ratio Lower Upper
65 100
67 52.4 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: VD064077.D

Acq: 25 Oct 2019 20:48

Instrument :

MSVOA_D

ClientSampleId :

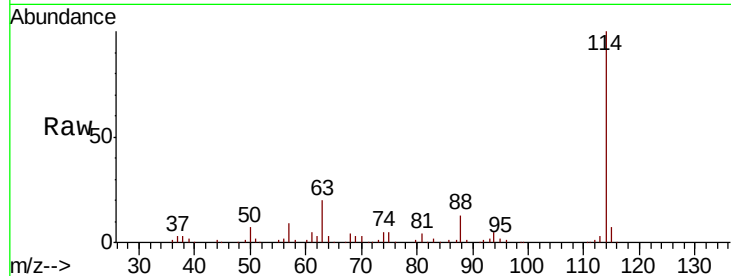
Tot Ion:114 Resp: 254215

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.4

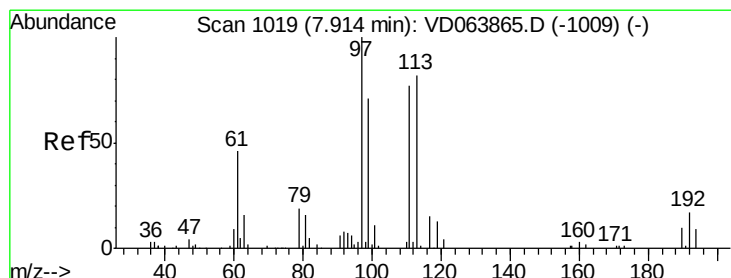
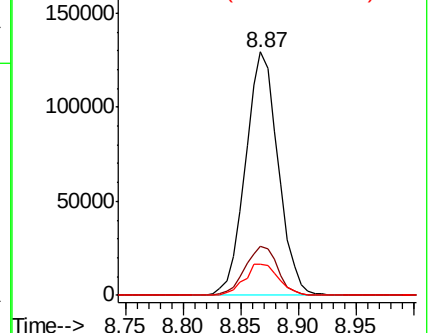
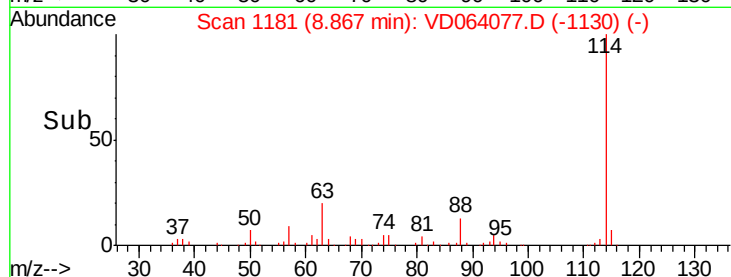
88 12.7 0.0 27.4



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: 51.199 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

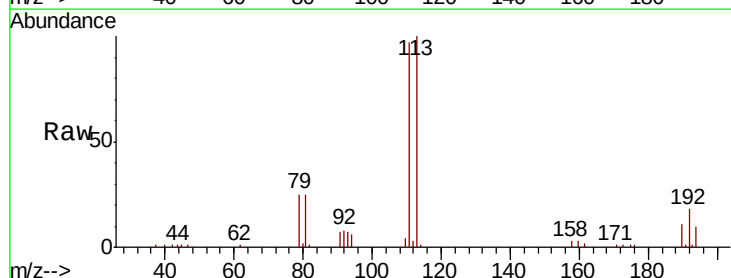
Tgt Ion:113 Resp: 79542

Ion Ratio Lower Upper

113 100

111 99.6 82.6 123.8

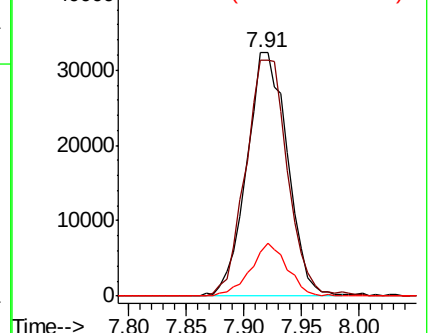
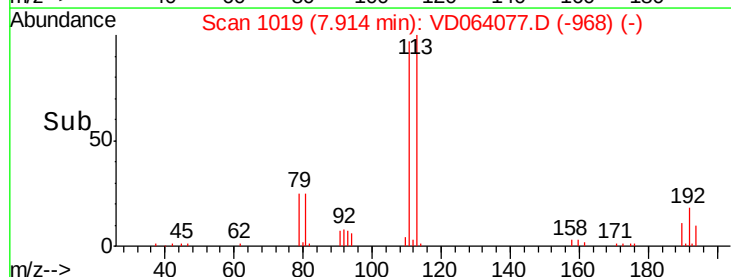
192 19.4 17.1 25.7

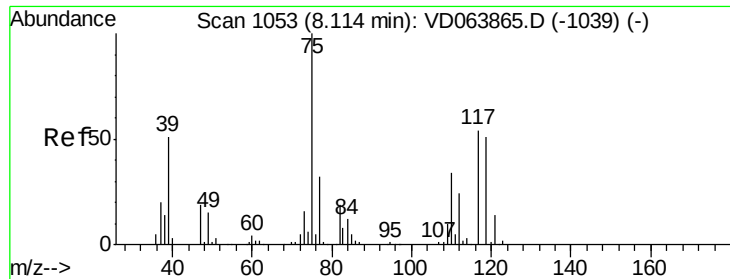


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.146 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

Instrument :

MSVOA_D

ClientSampleId :

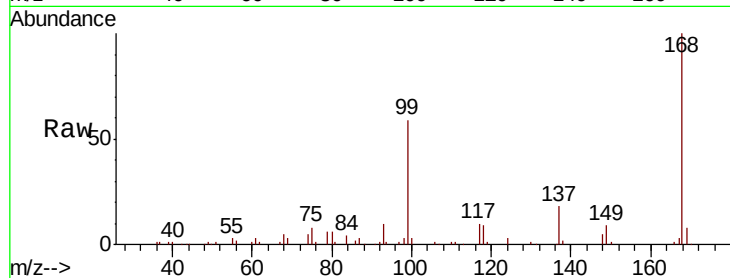
Tot Ion: 75 Resp: 11962

Ion Ratio Lower Upper

75 100

110 11.7 17.4 52.3#

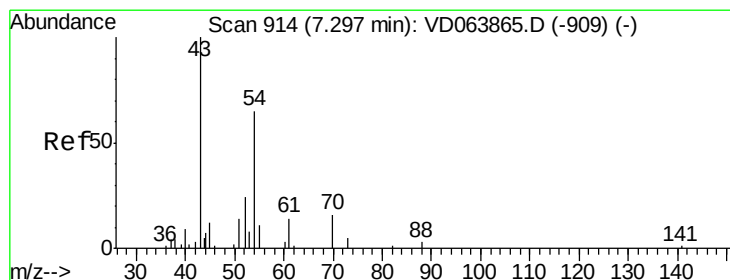
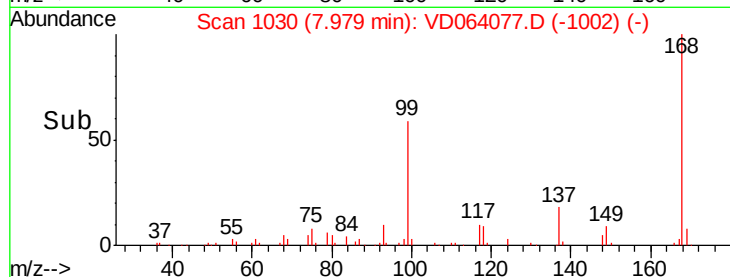
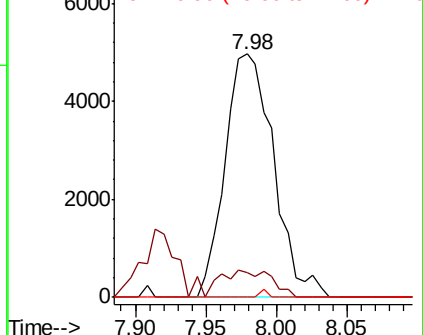
77 0.5 25.4 38.0#



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: 7.28 min Scan# 911

Delta R.T. -0.02 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

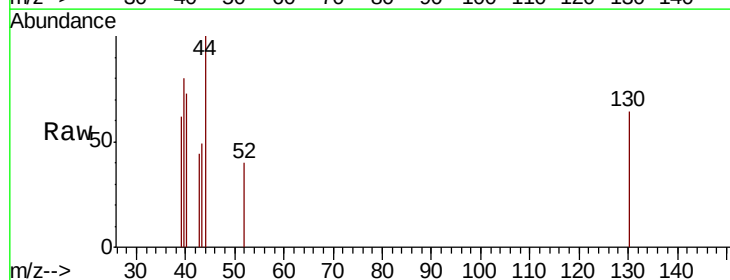
Tgt Ion: 43 Resp: 430

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

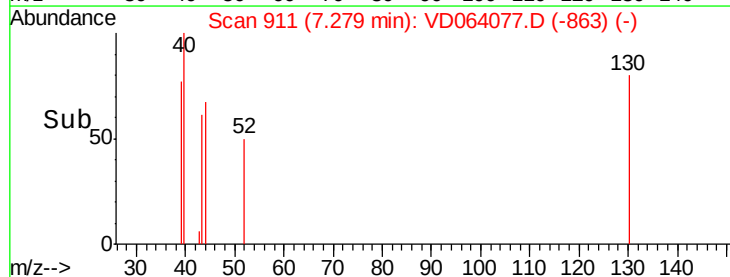
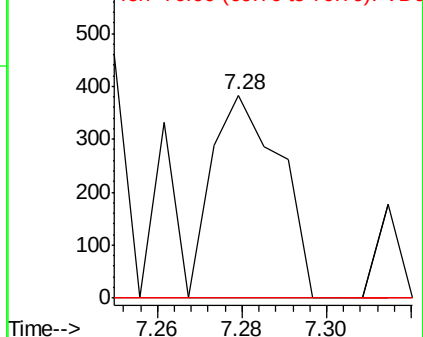
70 0.0 8.2 12.4#

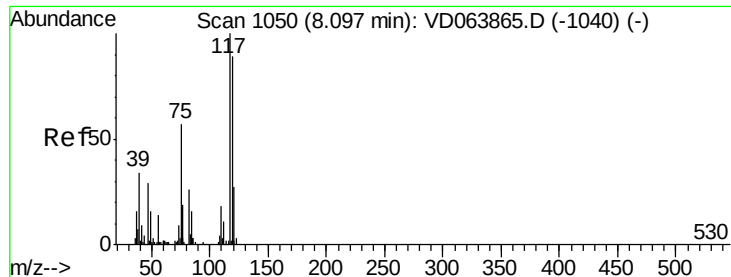


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.200 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

Instrument :

MSVOA_D

ClientSampled :

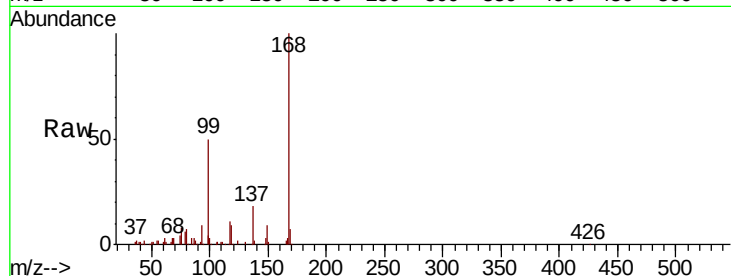
Tot Ion:117 Resp: 14563

Ion Ratio Lower Upper

117 100

119 3.2 70.8 106.2#

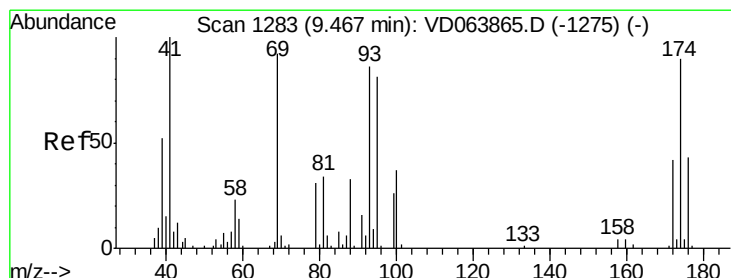
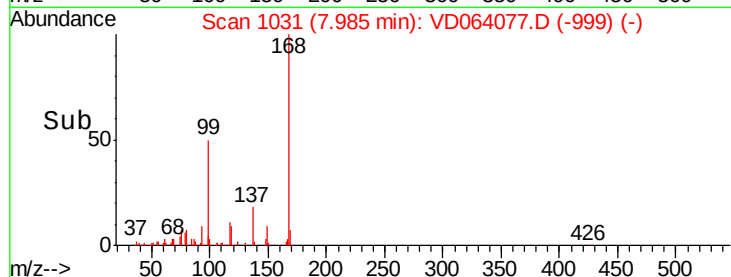
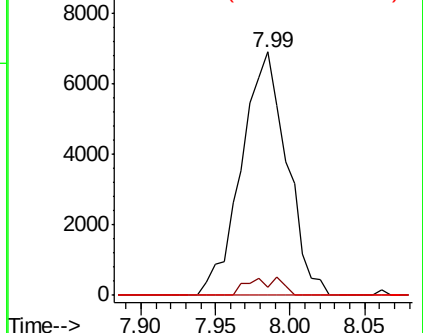
121 0.0 21.4 32.0#



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



#49

1,4-Dioxane

Concen: 4.576 ug/l

RT: 9.72 min Scan# 1326

Delta R.T. 0.25 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

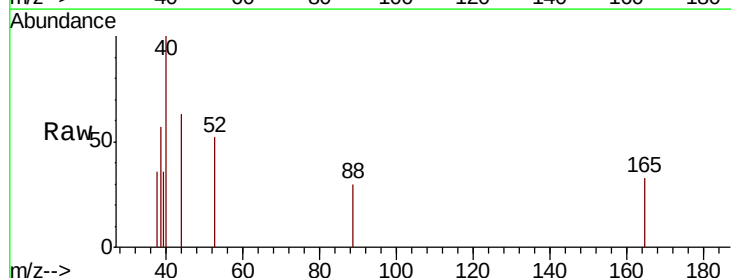
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 0.0 27.6 41.4#

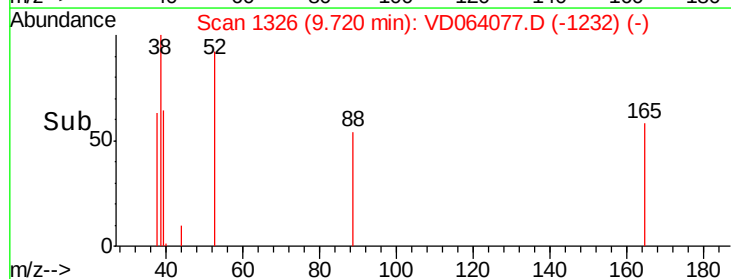
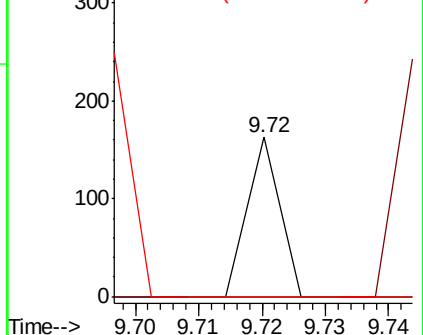
58 0.0 54.1 81.1#

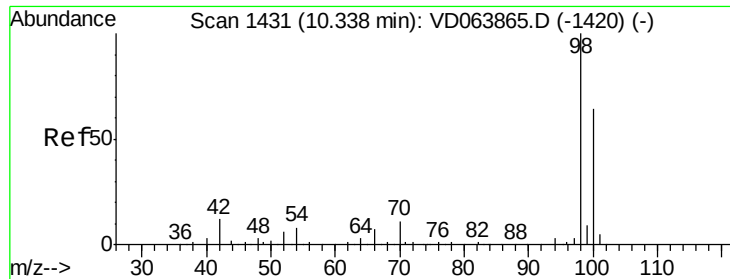


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 54.754 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

Instrument :

MSVOA_D

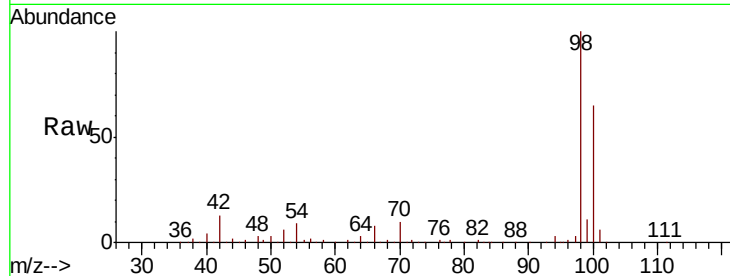
ClientSampleId :

Tot Ion: 98 Resp: 345263

Ion Ratio Lower Upper

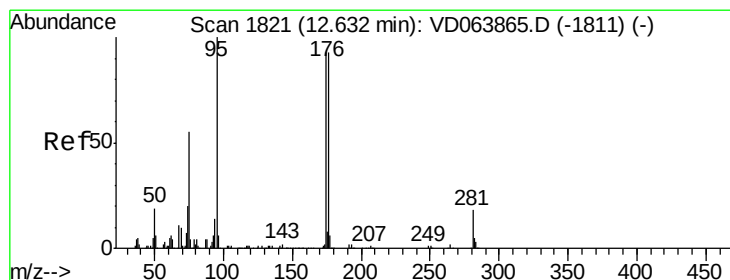
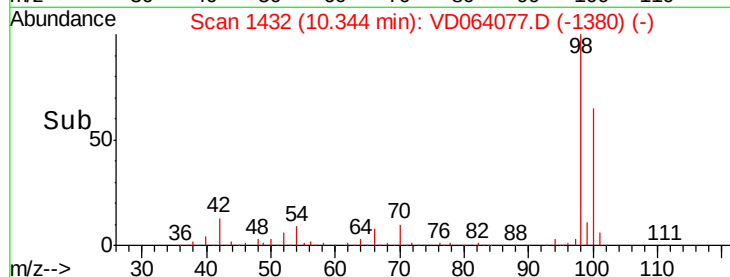
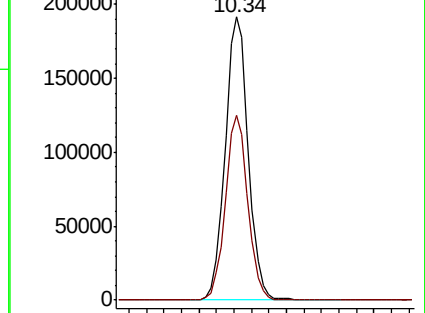
98 100

100 63.7 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: 46.453 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

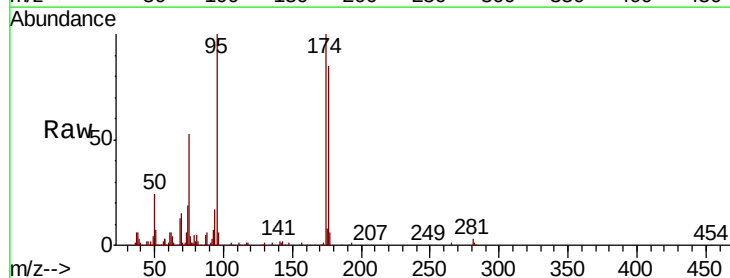
Tgt Ion: 95 Resp: 101791

Ion Ratio Lower Upper

95 100

174 97.0 0.0 186.4

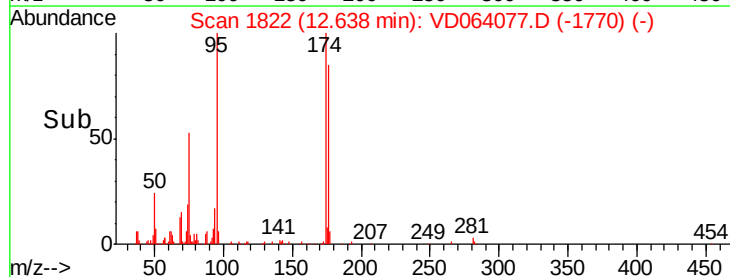
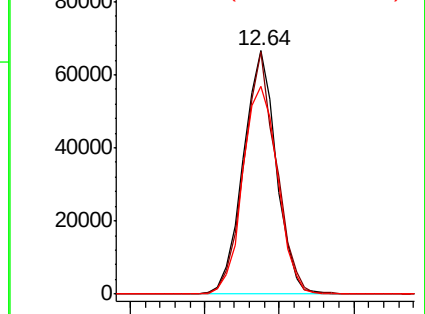
176 90.4 0.0 184.2

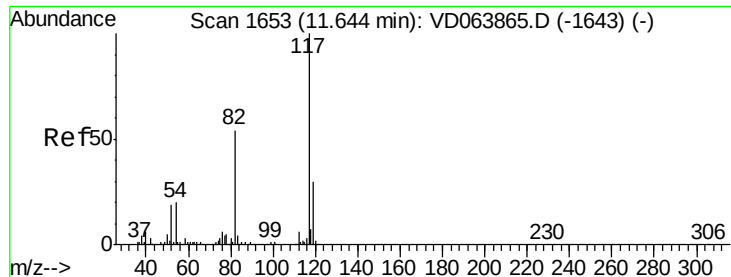


Abundance Ion 94.90 (94.60 to 95.60): VDC

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: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

Instrument :

MSVOA_D

ClientSampleId :

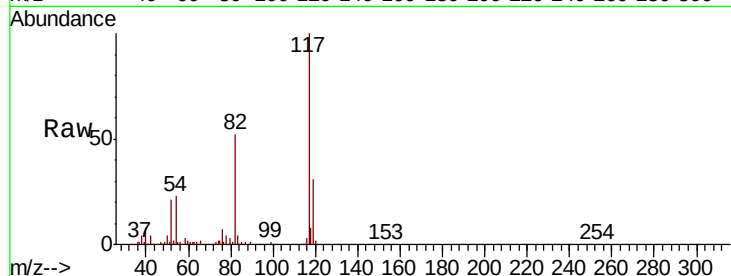
Tot Ion:117 Resp: 264633

Ion Ratio Lower Upper

117 100

82 52.4 42.8 64.2

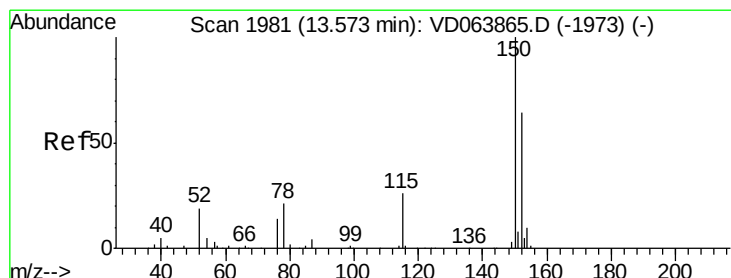
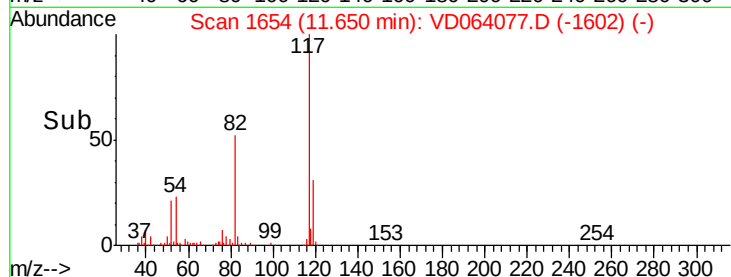
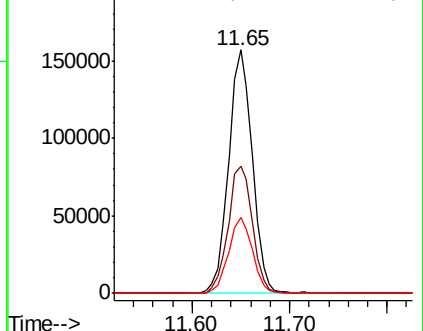
119 31.3 24.4 36.6



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: VD064077.D

Acq: 25 Oct 2019 20:48

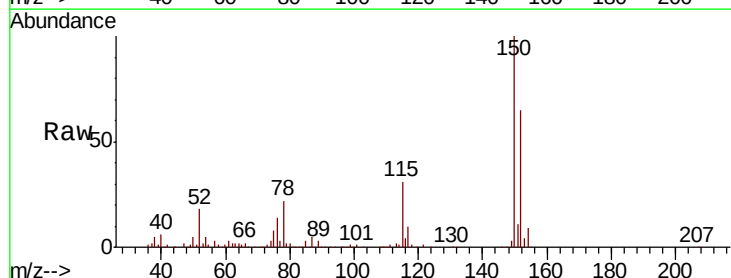
Tgt Ion:152 Resp: 128245

Ion Ratio Lower Upper

152 100

115 53.5 25.9 77.7

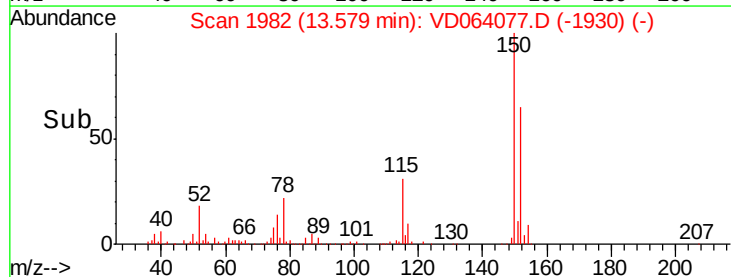
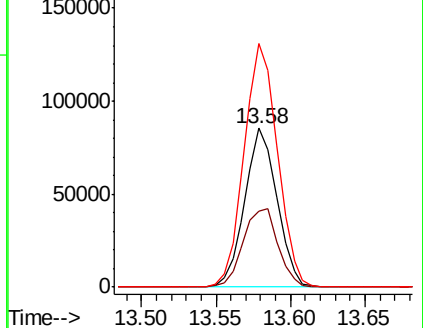
150 157.9 0.0 344.2

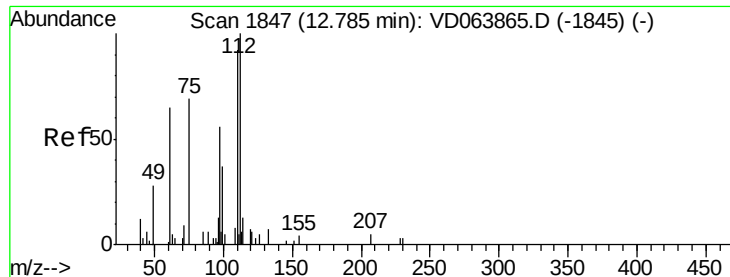


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 66.734 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

Instrument :

MSVOA_D

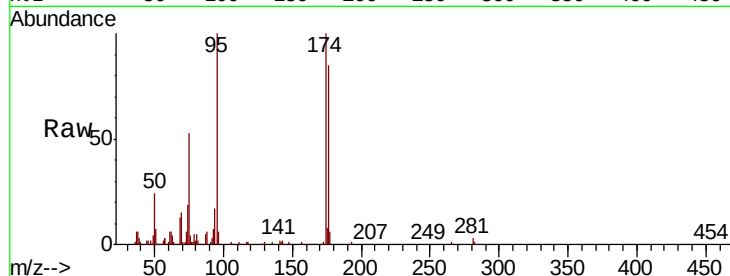
ClientSampleId :

Tot Ion: 75 Resp: 57321

Ion Ratio Lower Upper

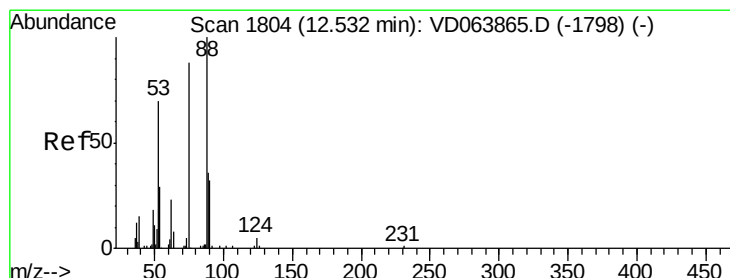
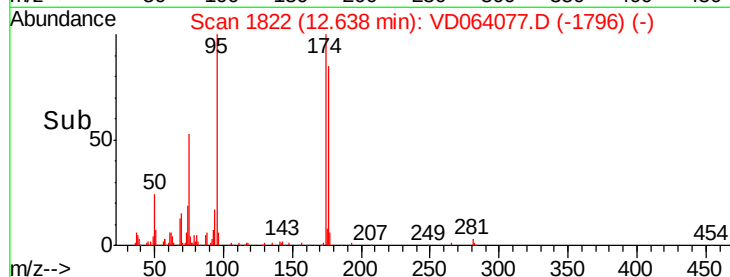
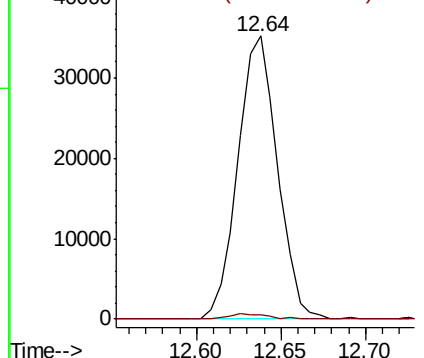
75 100

77 1.9 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: 118.092 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

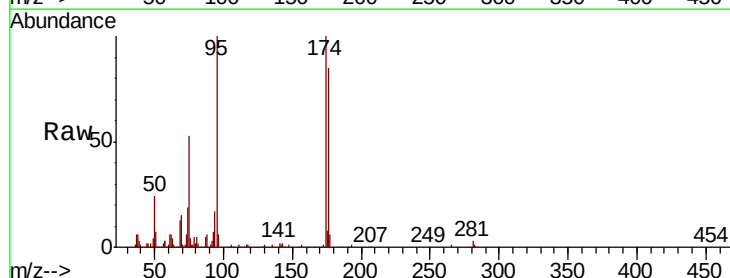
Tgt Ion: 75 Resp: 57321

Ion Ratio Lower Upper

75 100

53 0.1 75.0 112.6#

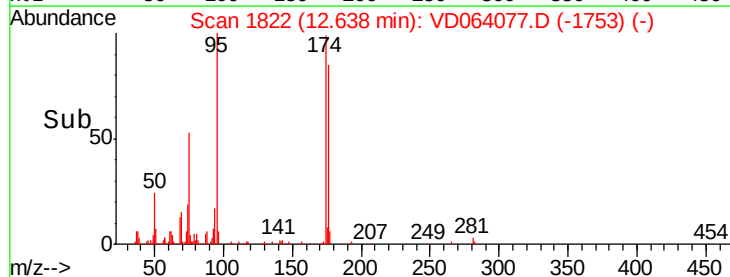
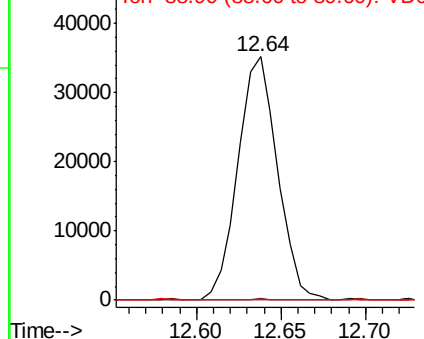
89 0.0 38.2 57.4#

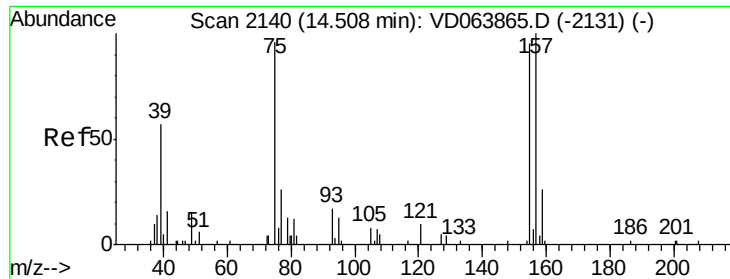


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 14.47 min Scan# 2133

Delta R.T. -0.04 min

Lab File: VD064077.D

Acq: 25 Oct 2019 20:48

Instrument :

MSVOA_D

ClientSampleId :

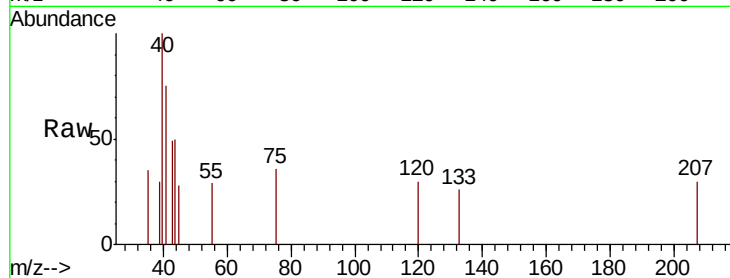
Tot Ion: 75 Resp: 74

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

