

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080519\
 Data File : VD063384.D
 Acq On : 5 Aug 2019 16:49
 Operator : VA/AP
 Sample : K4131-02RE
 Misc : 6.37g/5ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-D1-(0-1)

Quant Time: Aug 06 07:50:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1091922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1511180	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	1333999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	640806	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	583369	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
35) Dibromofluoromethane	6.93	113	639428	49.56	ug/l	0.02
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	10.40	98	1326904	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	
62) 4-Bromofluorobenzene	13.55	95	605742	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	

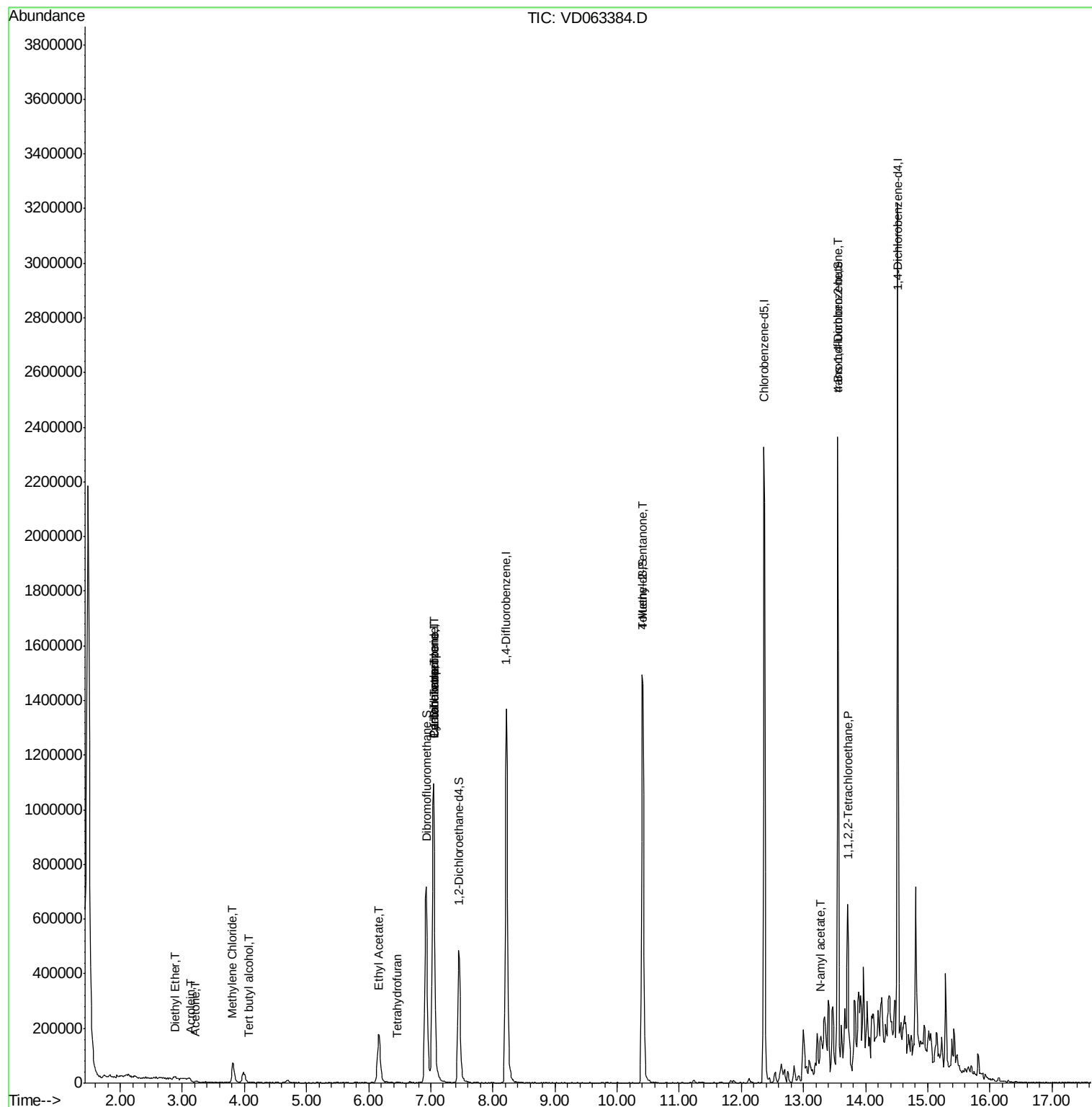
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.88	74	3812	1.308	ug/l #	18
11) Tert butyl alcohol	4.07	59	2947	5.543	ug/l #	69
13) Acrolein	3.13	56	1027	2.007	ug/l	84
16) Acetone	3.22	43	4105	1.739	ug/l #	62
20) Methylene Chloride	3.82	84	46024	4.823	ug/l #	86
29) Tetrahydrofuran	6.47	42	1573	1.402	ug/l #	44
31) Cyclohexane	7.05	56	20517	1.901	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	76146	5.521	ug/l #	55
37) Ethyl Acetate	6.17	43	14153	2.284	ug/l #	1
38) Carbon Tetrachloride	7.04	117	107061	5.156	ug/l #	15
51) 4-Methyl-2-Pentanone	10.40	43	8557	1.590	ug/l #	1
74) N-amyl acetate	13.29	43	21853	2.055	ug/l #	3
75) 1,1,2,2-Tetrachloroethane	13.71	83	32767	4.796	ug/l #	40
81) trans-1,4-Dichloro-2-buten	13.55	75	274157	128.274	ug/l #	4

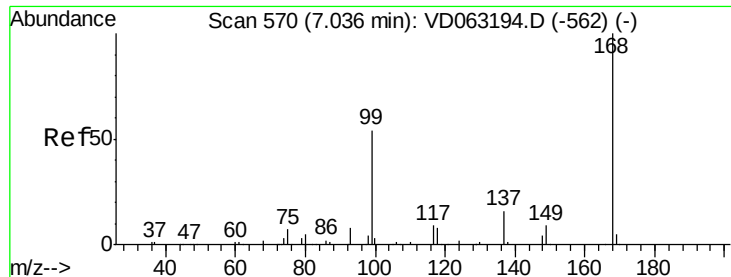
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

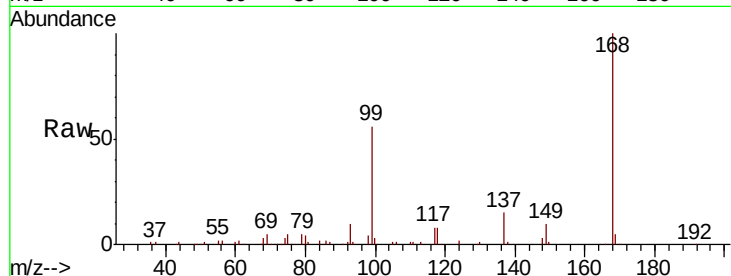
1S-D1-(0-1)

Tgt Ion:168 Resp: 1091922

Ion Ratio Lower Upper

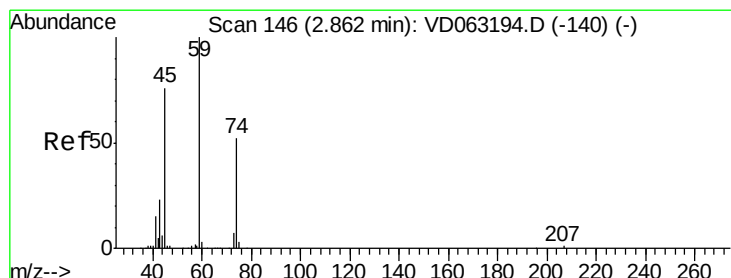
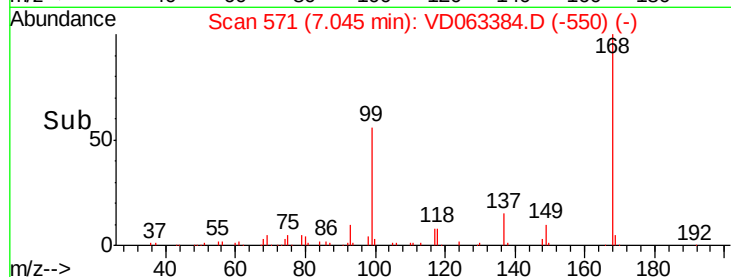
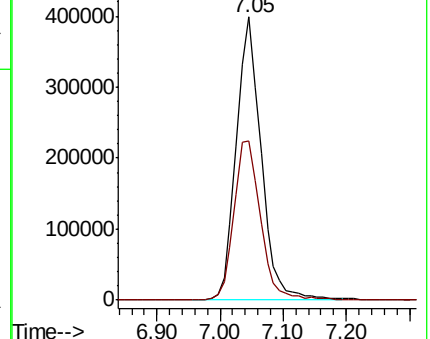
168 100

99 56.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.308 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD063384.D

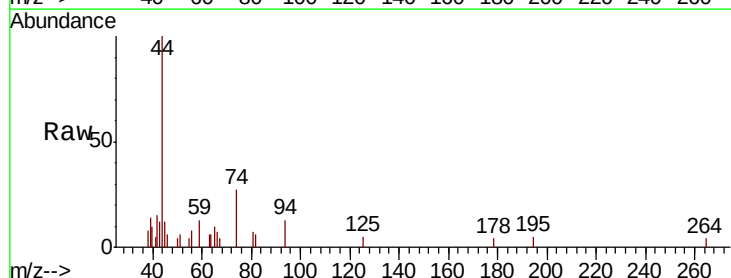
Acq: 5 Aug 2019 16:49

Tgt Ion: 74 Resp: 3812

Ion Ratio Lower Upper

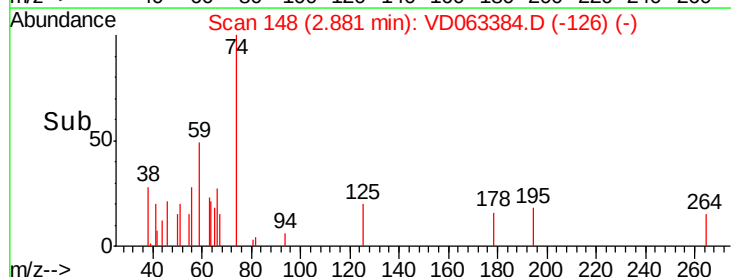
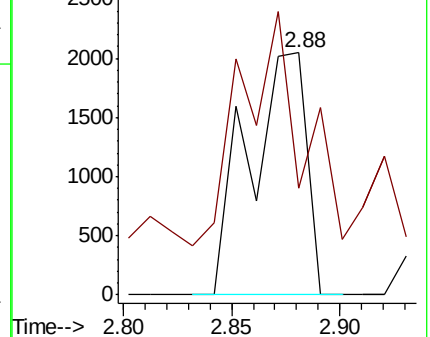
74 100

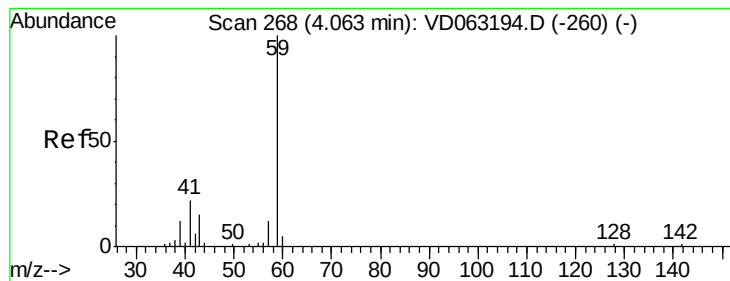
45 44.0 73.6 220.8#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#11

Tert butyl alcohol

Concen: 5.543 ug/l

RT: 4.07 min Scan# 269

Delta R.T. 0.01 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

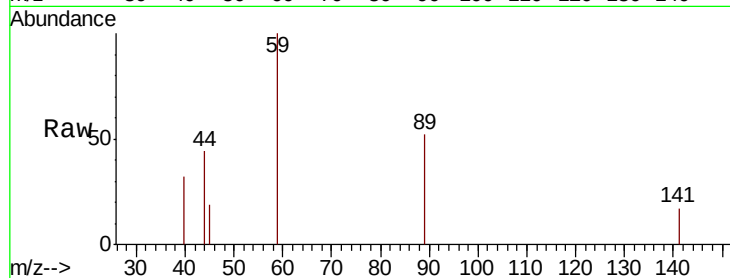
1S-D1-(0-1)

Tgt Ion: 59 Resp: 2947

Ion Ratio Lower Upper

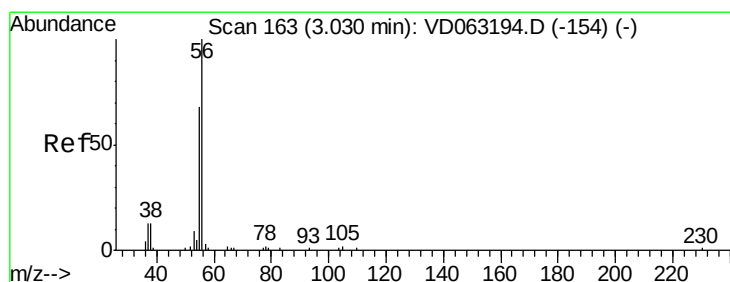
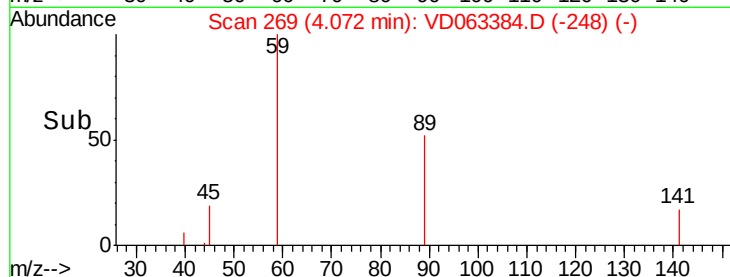
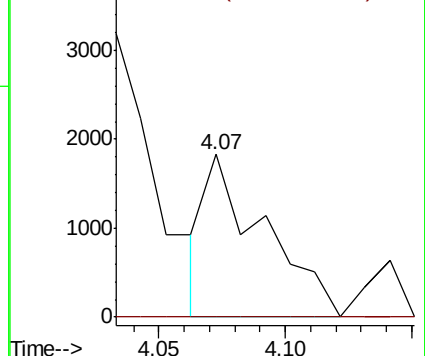
59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#13

Acrolein

Concen: 2.007 ug/l

RT: 3.13 min Scan# 173

Delta R.T. 0.10 min

Lab File: VD063384.D

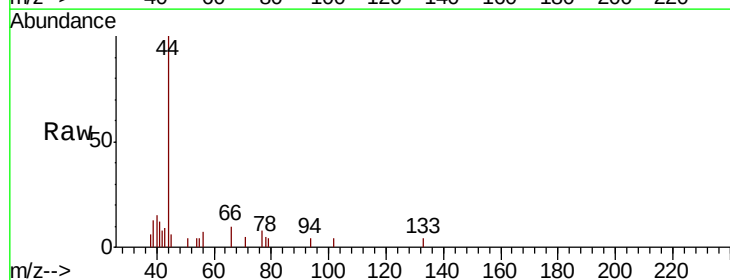
Acq: 5 Aug 2019 16:49

Tgt Ion: 56 Resp: 1027

Ion Ratio Lower Upper

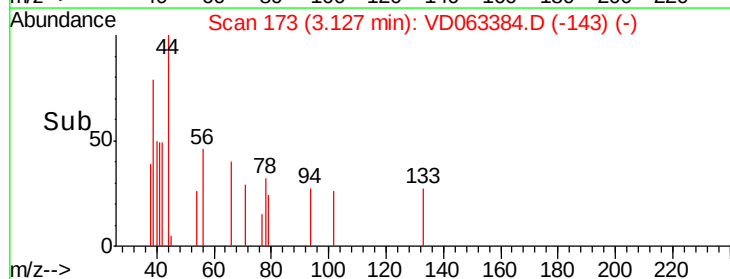
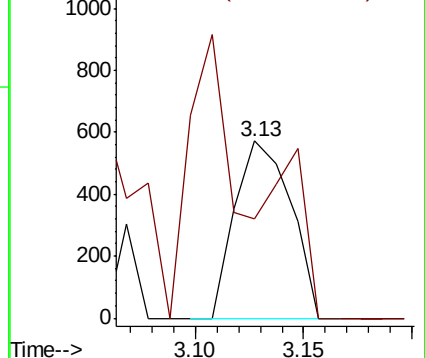
56 100

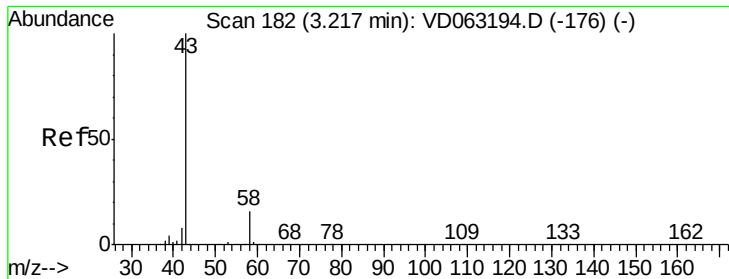
55 55.8 55.3 82.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 1.739 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

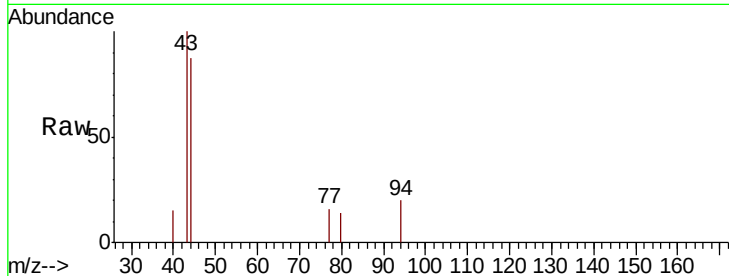
1S-D1-(0-1)

Tgt Ion: 43 Resp: 4105

Ion Ratio Lower Upper

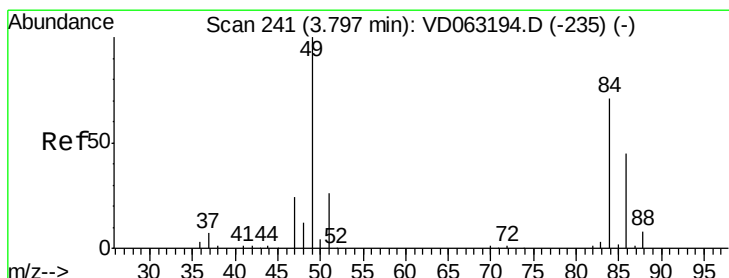
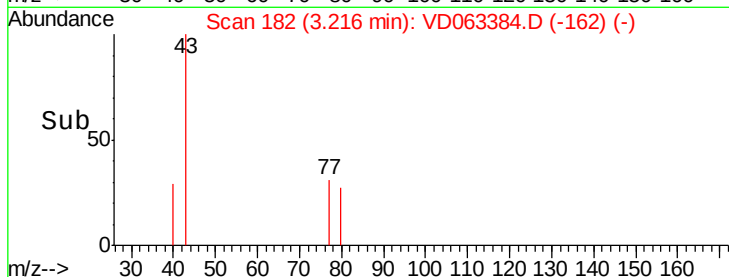
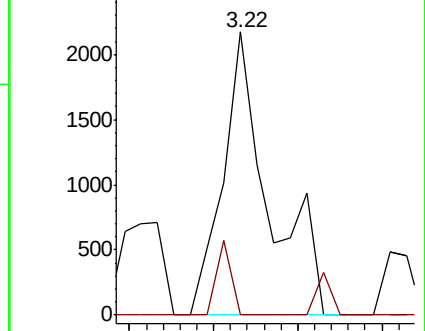
43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.823 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

Tgt Ion: 84 Resp: 46024

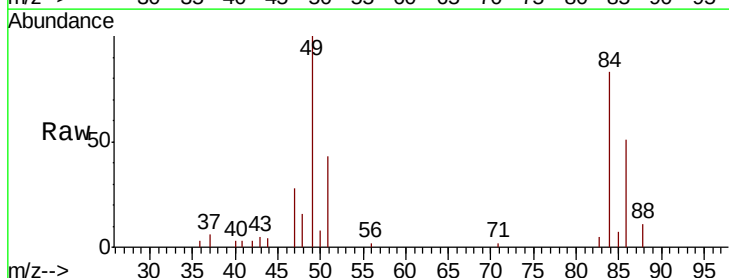
Ion Ratio Lower Upper

84 100

49 119.9 112.5 168.7

51 52.0 29.6 44.4#

86 61.7 50.4 75.6

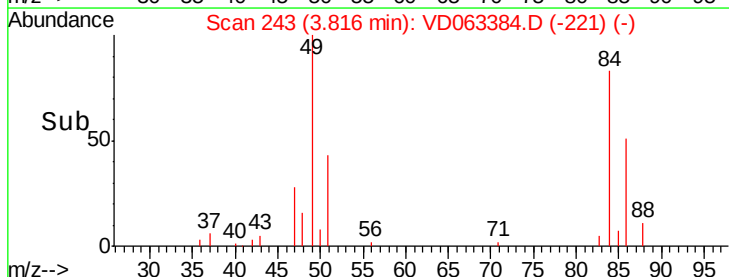
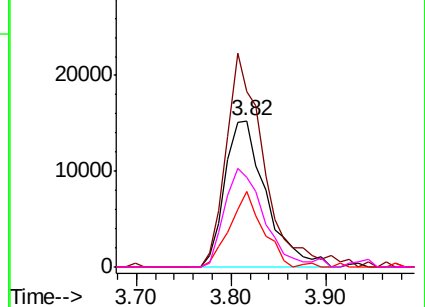


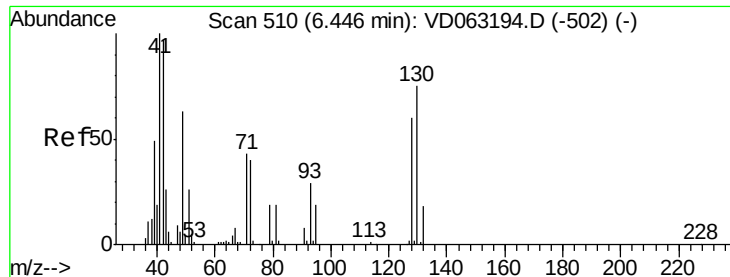
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#29

Tetrahydrofuran

Concen: 1.402 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

Instrument :

MSVOA_D

ClientSampled :

1S-D1-(0-1)

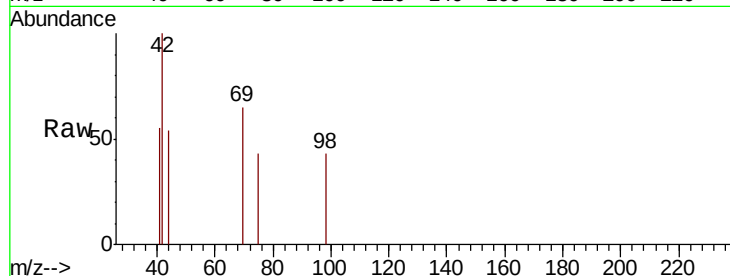
Tgt Ion: 42 Resp: 1573

Ion Ratio Lower Upper

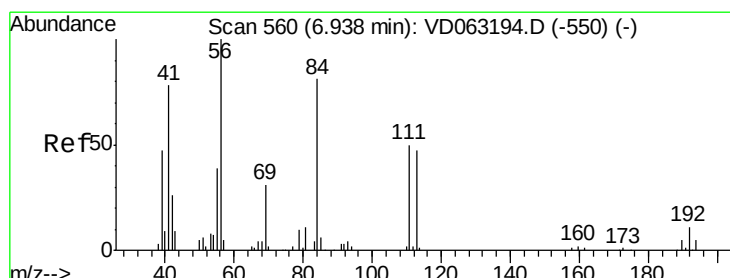
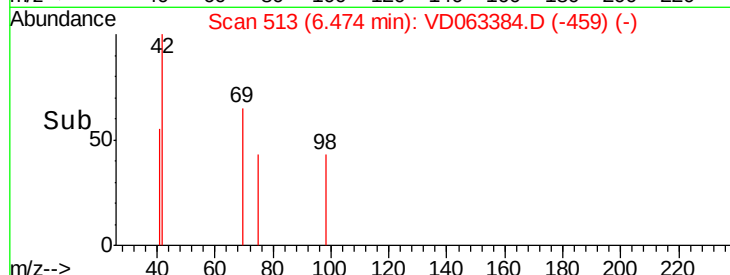
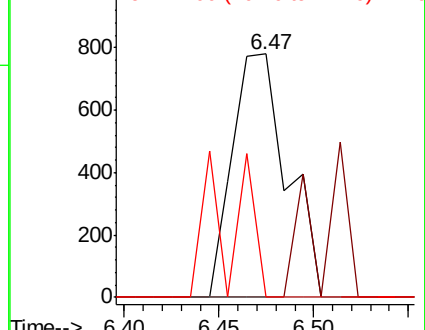
42 100

72 14.8 33.4 50.2#

71 0.0 35.7 53.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.901 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

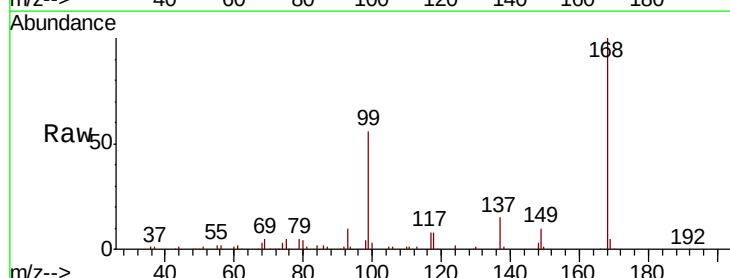
Tgt Ion: 56 Resp: 20517

Ion Ratio Lower Upper

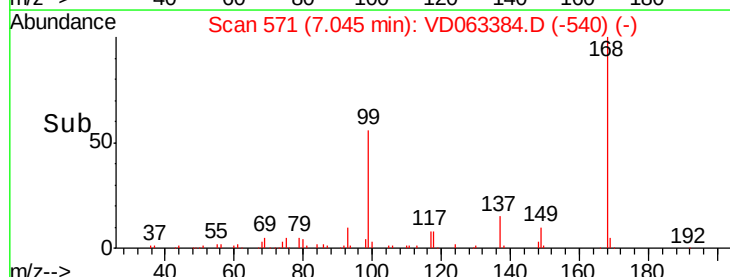
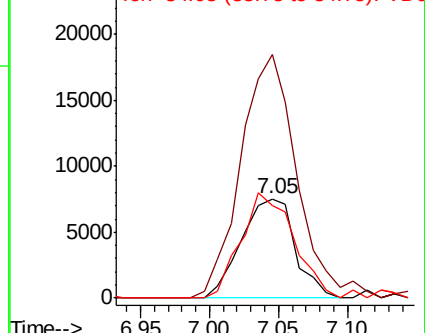
56 100

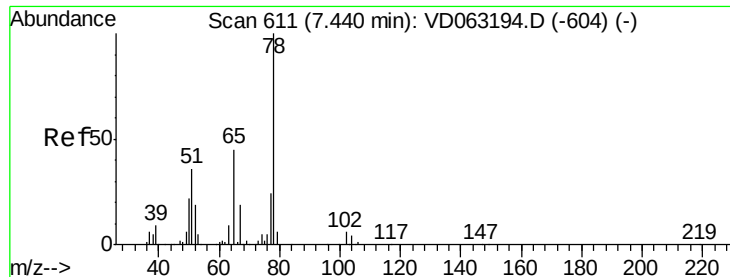
69 245.3 24.5 36.7#

84 93.2 64.9 97.3



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

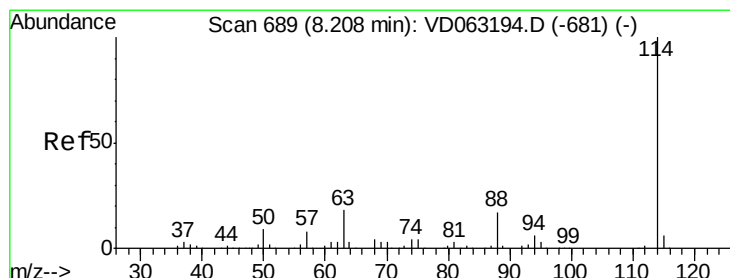
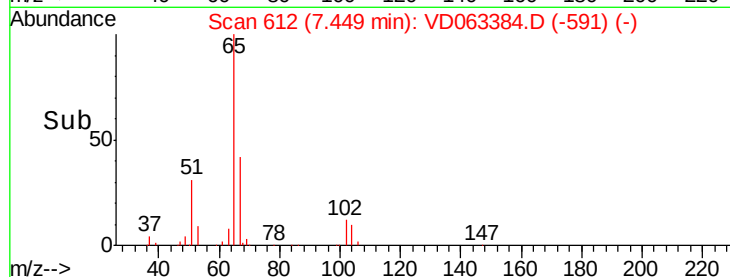
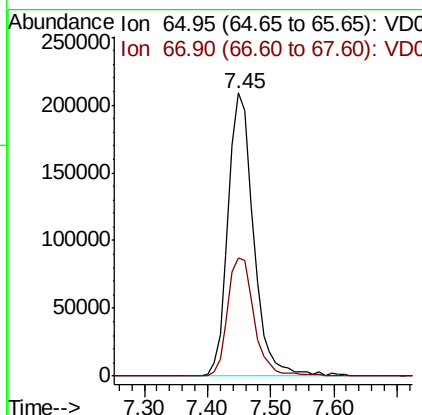
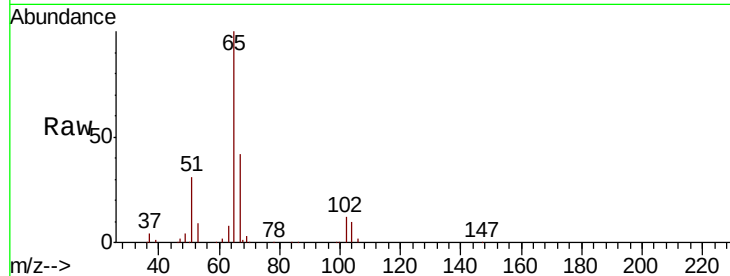




#33
 1,2-Dichloroethane-d4
 Concen: 48.149 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD063384.D
 Acq: 5 Aug 2019 16:49

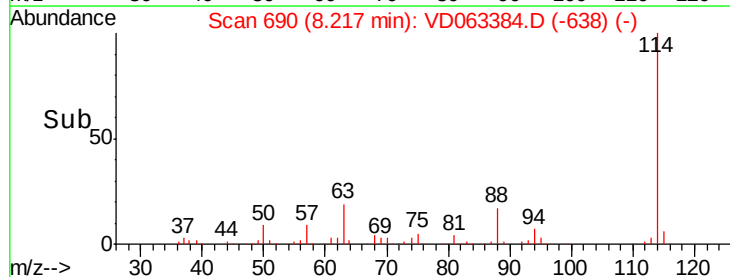
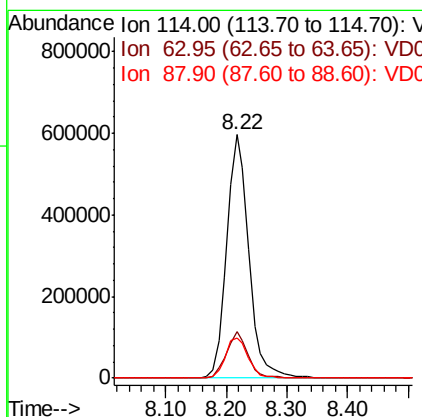
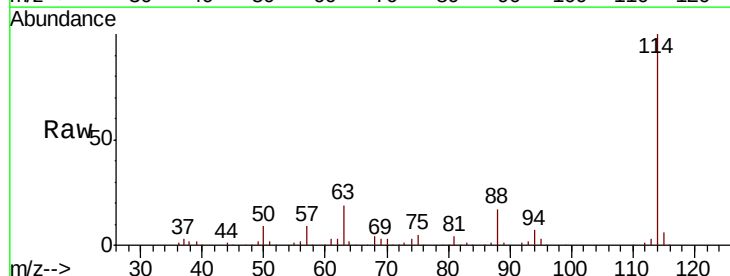
Instrument :
 MSVOA_D
 ClientSampleId :
 1S-D1-(0-1)

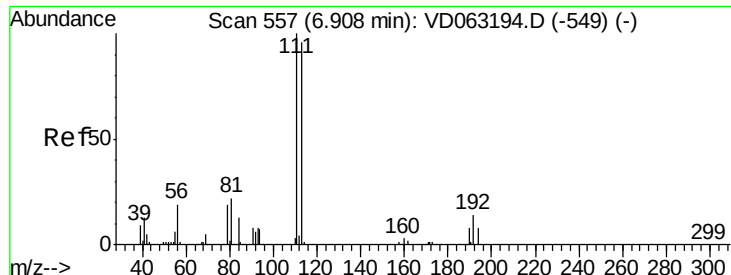
Tgt Ion: 65 Resp: 583369
 Ion Ratio Lower Upper
 65 100
 67 41.6 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063384.D
 Acq: 5 Aug 2019 16:49

Tgt Ion: 114 Resp: 1511180
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 35.2
 88 16.7 0.0 34.6

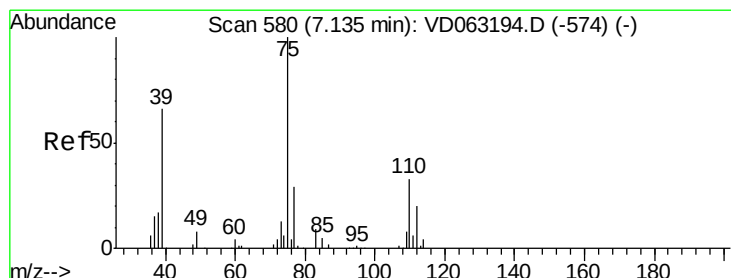
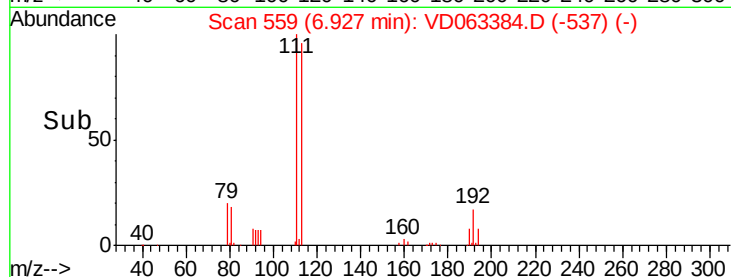
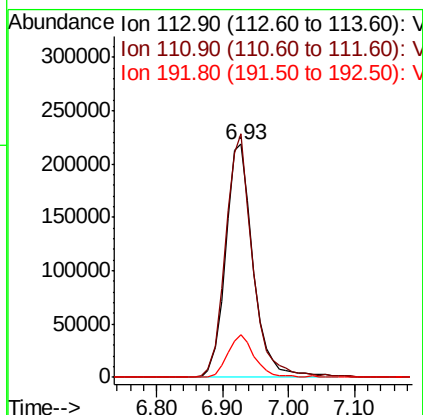
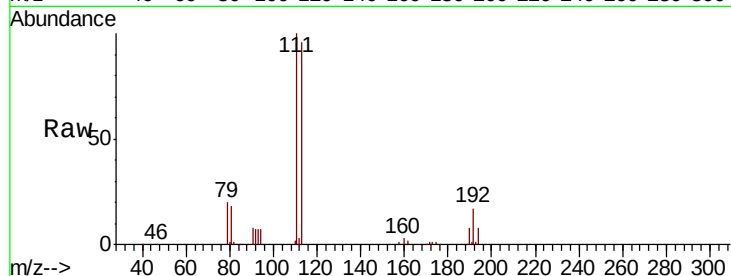




#35
 Dibromofluoromethane
 Concen: 49.559 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063384.D
 Acq: 5 Aug 2019 16:49

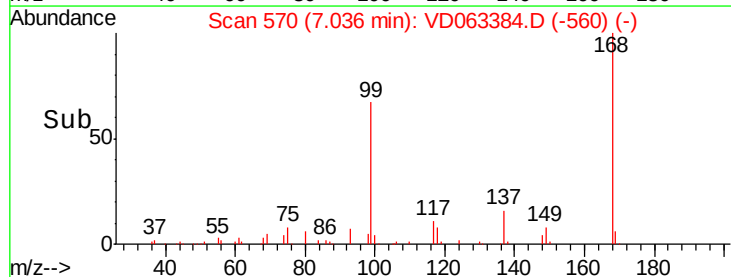
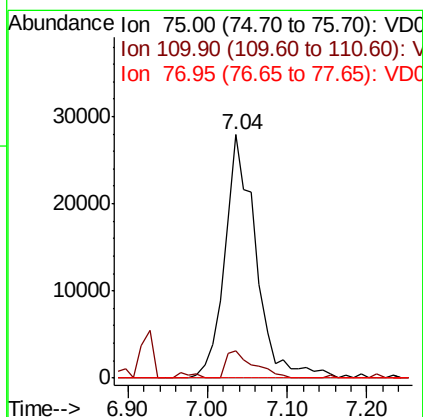
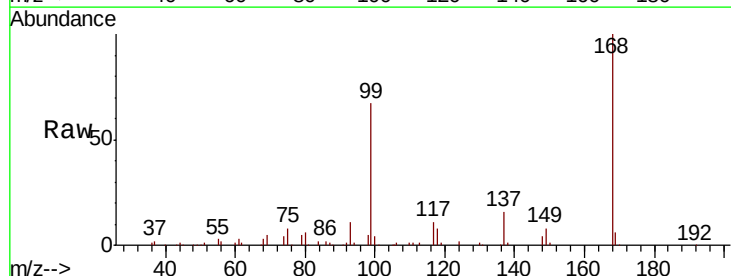
Instrument :
 MSVOA_D
 ClientSampleId :
 1S-D1-(0-1)

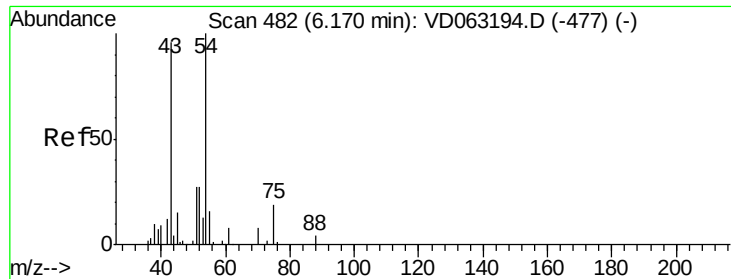
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.5	83.2	124.8
192	18.1	11.8	17.8#



#36
 1,1-Dichloropropene
 Concen: 5.521 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD063384.D
 Acq: 5 Aug 2019 16:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	16.1	48.2#
77	0.0	22.7	34.1#

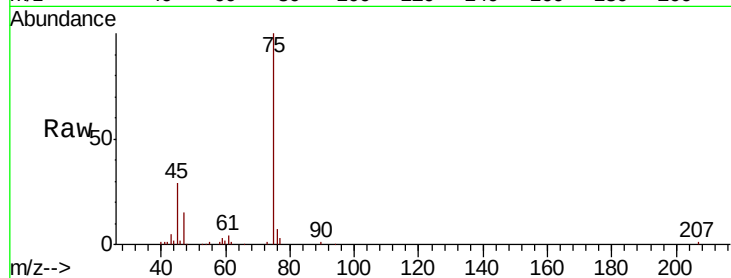




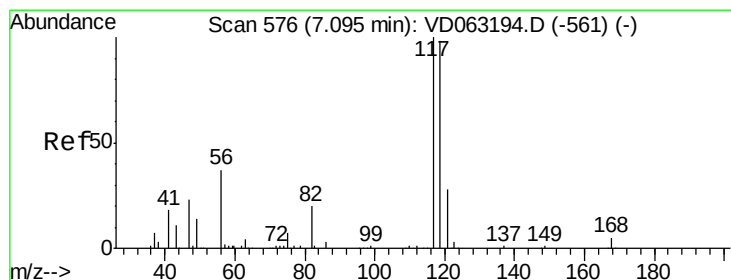
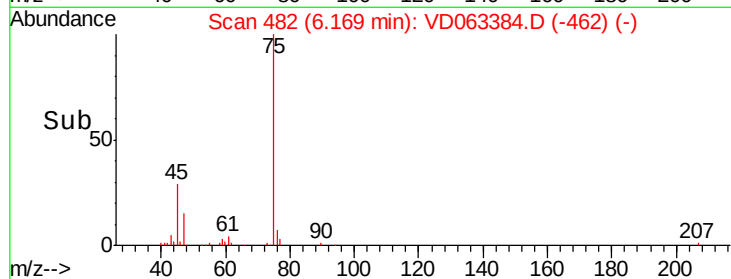
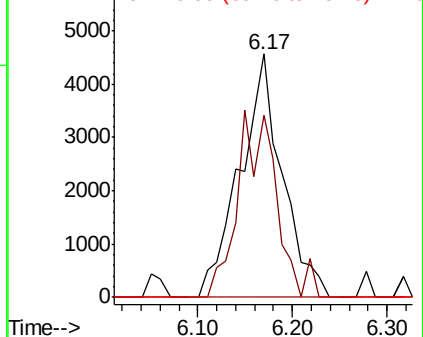
#37
Ethyl Acetate
 Concen: 2.284 ug/l
 RT: 6.17 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: VD063384.D
 Acq: 5 Aug 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-D1-(0-1)

Tgt Ion: 43 Resp: 14153
 Ion Ratio Lower Upper
 43 100
 61 75.1 11.3 16.9#
 70 0.0 5.1 7.7#

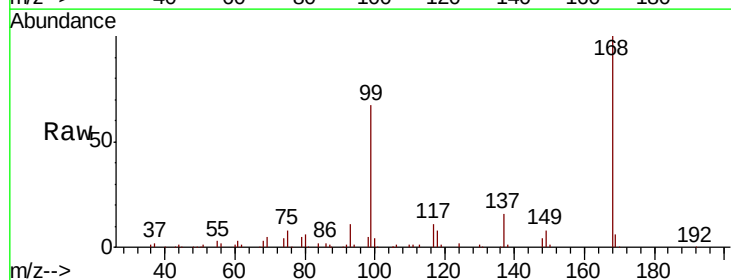


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 70.00 (69.70 to 70.70): VDC

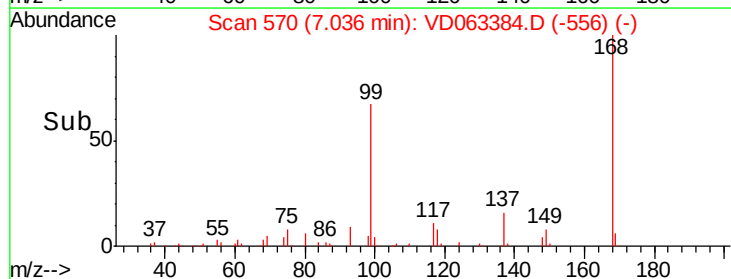
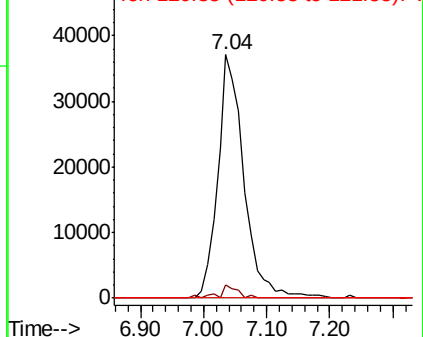


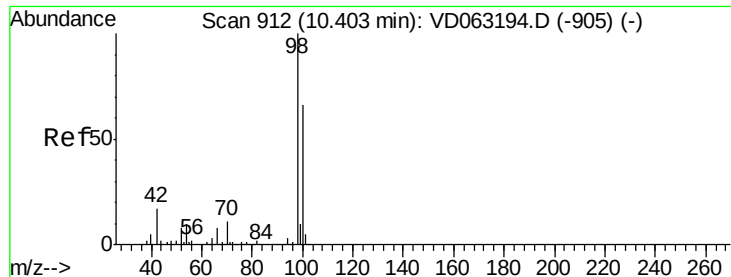
#38
Carbon Tetrachloride
 Concen: 5.156 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.06 min
 Lab File: VD063384.D
 Acq: 5 Aug 2019 16:49

Tgt Ion: 117 Resp: 107061
 Ion Ratio Lower Upper
 117 100
 119 5.2 78.2 117.2#
 121 0.0 22.1 33.1#



Abundance Ion 116.85 (116.55 to 117.55): V
 Ion 118.85 (118.55 to 119.55): V
 Ion 120.85 (120.55 to 121.55): V

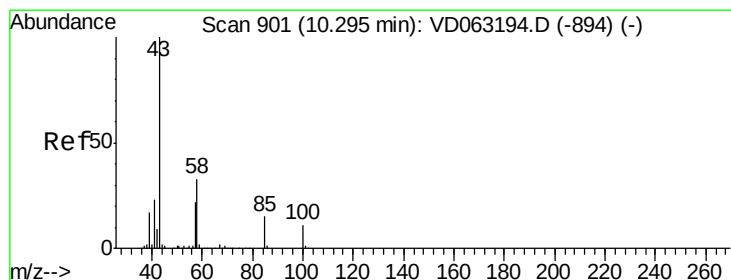
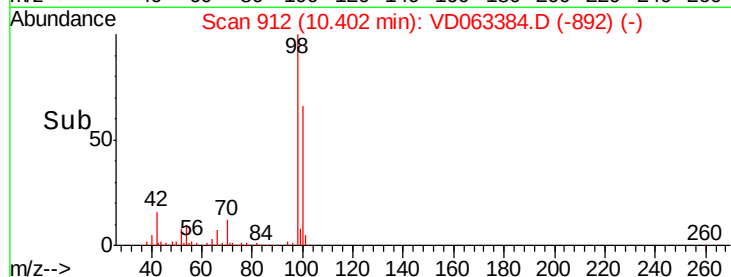
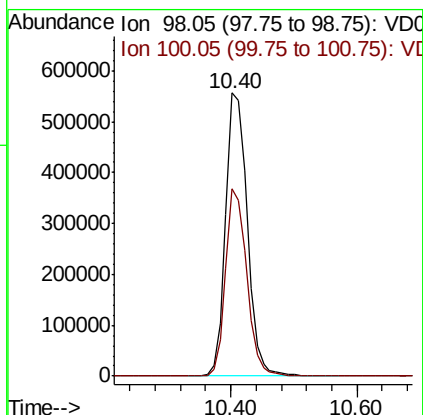
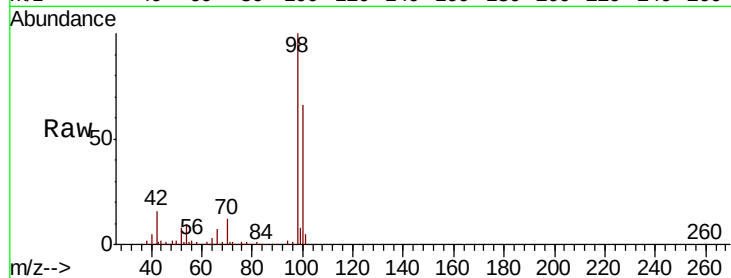




#50
Toluene-d8
Concen: 45.953 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD063384.D
Acq: 5 Aug 2019 16:49

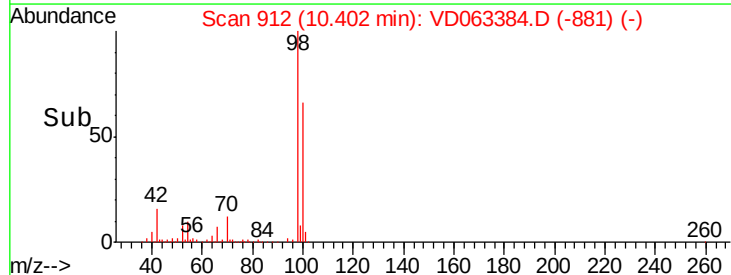
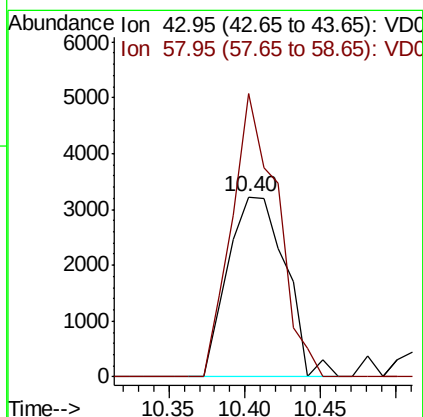
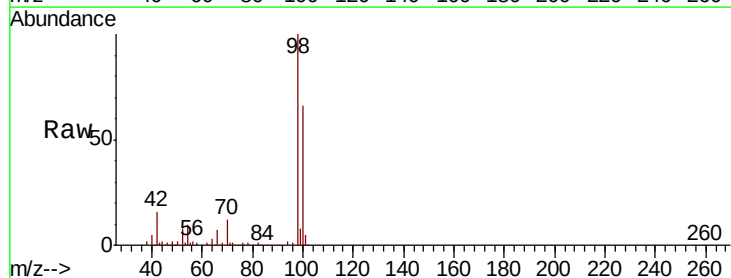
Instrument :
MSVOA_D
ClientSampleId :
1S-D1-(0-1)

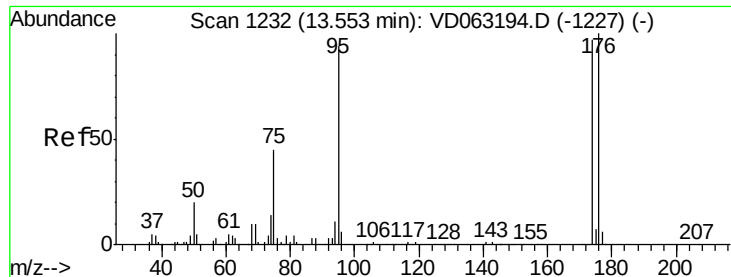
Tgt Ion: 98 Resp: 1326904
Ion Ratio Lower Upper
98 100
100 66.3 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 1.590 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.11 min
Lab File: VD063384.D
Acq: 5 Aug 2019 16:49

Tgt Ion: 43 Resp: 8557
Ion Ratio Lower Upper
43 100
58 157.1 26.2 39.2#

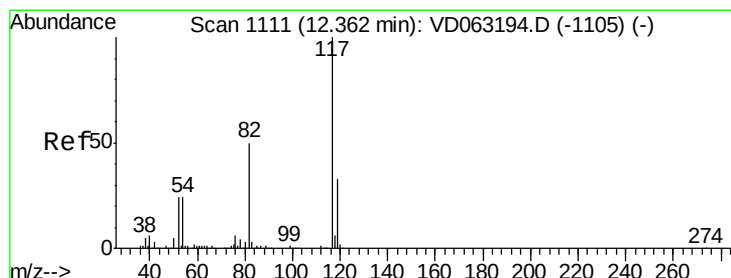
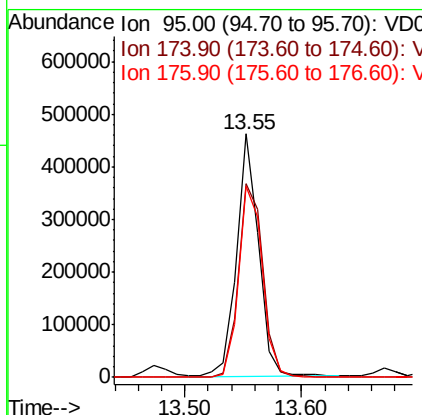
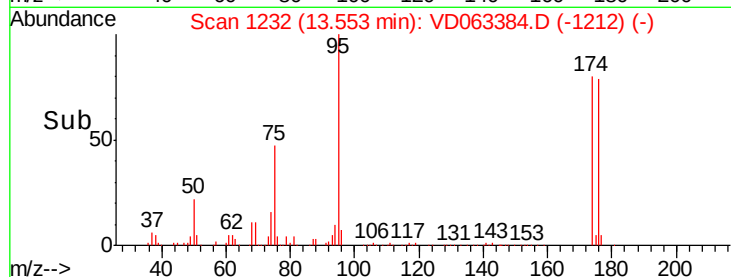
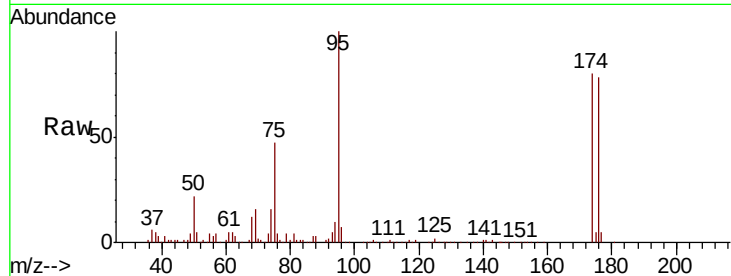




#62
4-Bromofluorobenzene
Concen: 46.035 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD063384.D
Acq: 5 Aug 2019 16:49

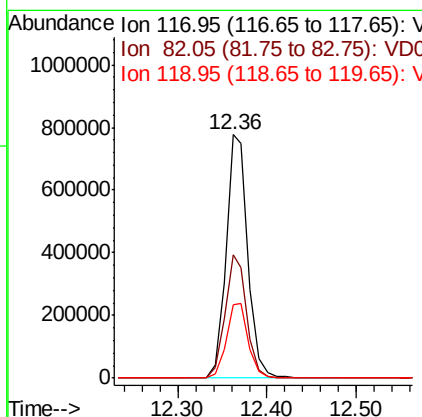
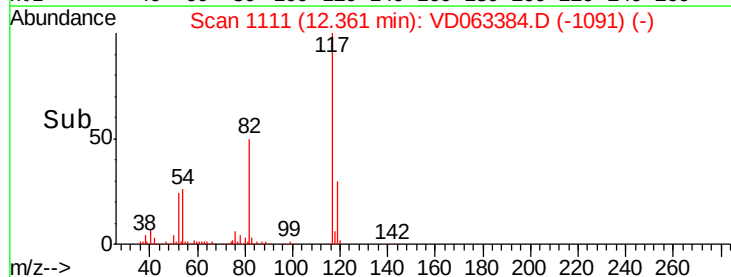
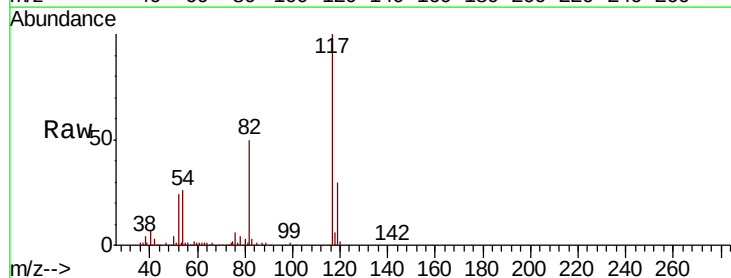
Instrument :
MSVOA_D
ClientSampleId :
1S-D1-(0-1)

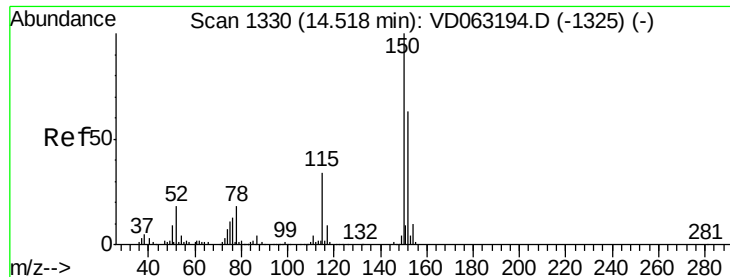
Tgt Ion: 95 Resp: 605742
Ion Ratio Lower Upper
95 100
174 79.7 0.0 205.4
176 78.5 0.0 211.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD063384.D
Acq: 5 Aug 2019 16:49

Tgt Ion: 117 Resp: 1333999
Ion Ratio Lower Upper
117 100
82 50.4 40.1 60.1
119 29.9 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

1S-D1-(0-1)

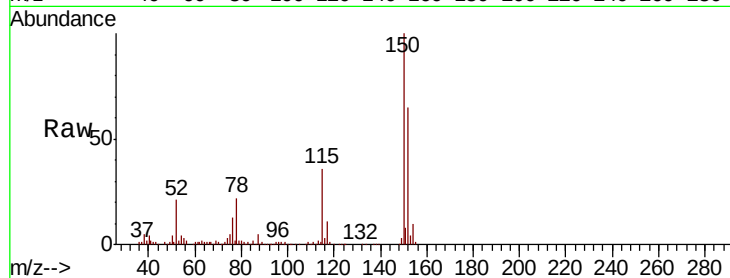
Tgt Ion:152 Resp: 640806

Ion Ratio Lower Upper

152 100

115 56.0 27.5 82.4

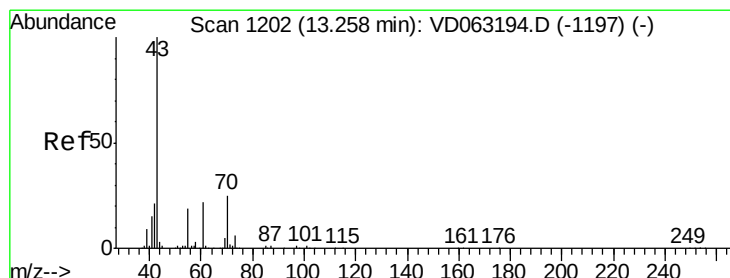
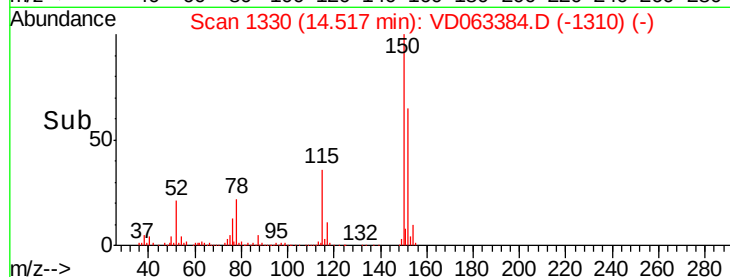
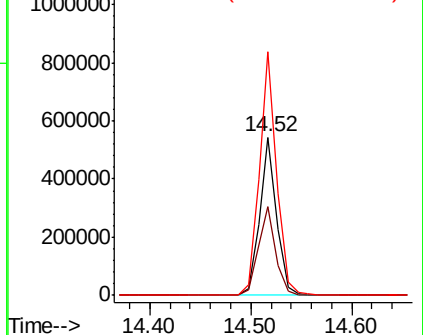
150 153.9 0.0 320.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-aryl acetate

Concen: 2.055 ug/l

RT: 13.29 min Scan# 1205

Delta R.T. 0.03 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

Tgt Ion: 43 Resp: 21853

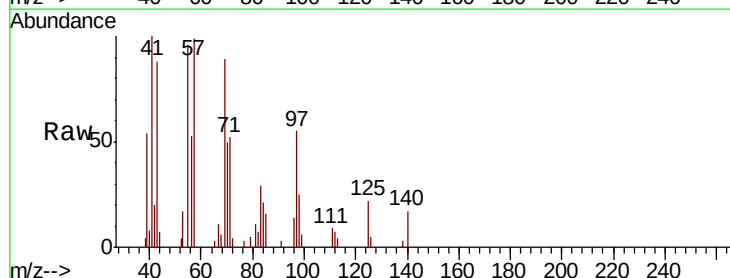
Ion Ratio Lower Upper

43 100

70 57.2 20.2 30.4#

55 109.0 14.9 22.3#

61 0.0 17.9 26.9#

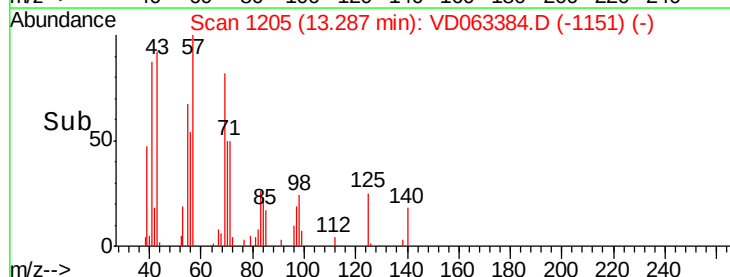
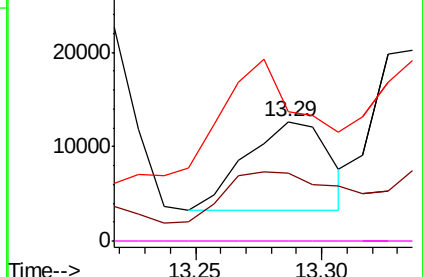


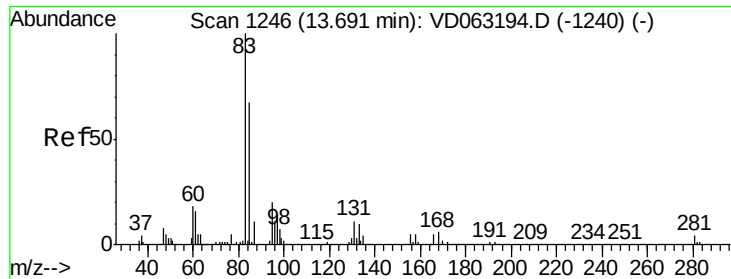
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 4.796 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.02 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

1S-D1-(0-1)

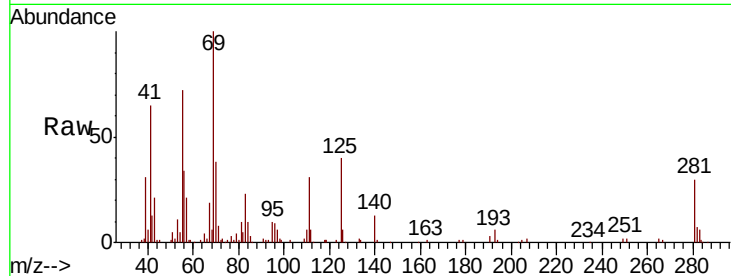
Tgt Ion: 83 Resp: 32767

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

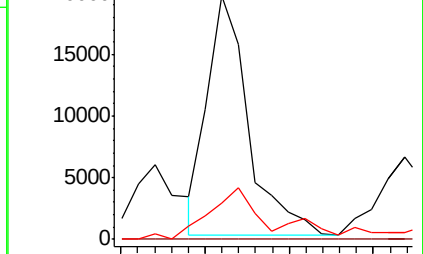
85 14.8 33.7 101.1#



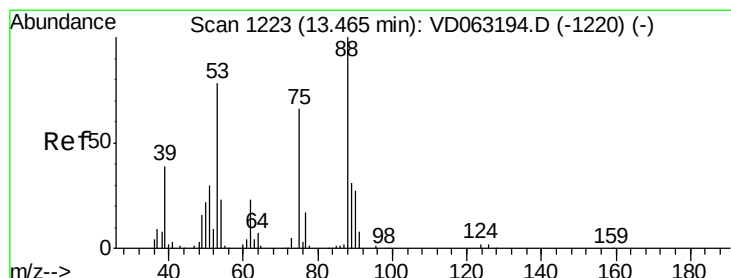
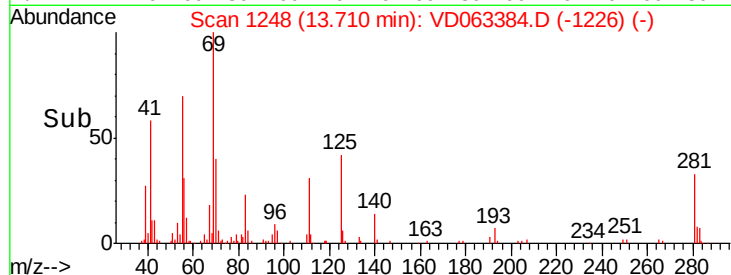
Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



Time--> 13.65 13.70 13.75 13.80



#81

trans-1,4-Dichloro-2-butene

Concen: 128.274 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063384.D

Acq: 5 Aug 2019 16:49

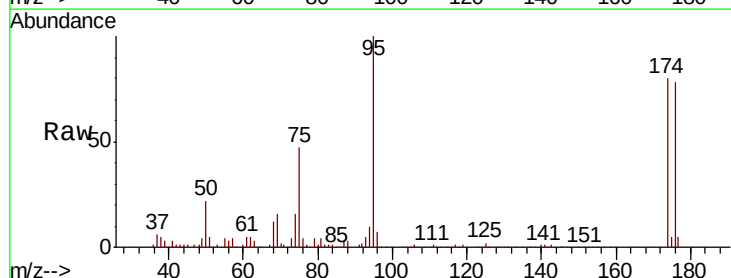
Tgt Ion: 75 Resp: 274157

Ion Ratio Lower Upper

75 100

53 1.2 94.9 142.3#

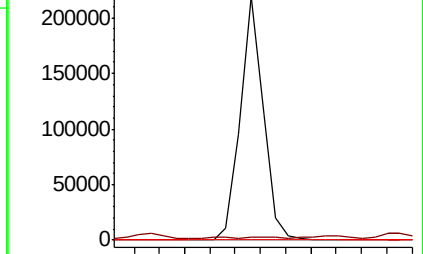
89 0.0 37.4 56.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



Time--> 13.50 13.60

