

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080619\
 Data File : VD063412.D
 Acq On : 6 Aug 2019 21:16
 Operator : JC/SY
 Sample : K4165-05RE
 Misc : 4.99g/5ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CP-SHALLOW-PIPE-SOILRE

Quant Time: Aug 07 06:44:40 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	7.06	168	210016	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.24	114	305229	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	231498	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.54	152	117369	50.00	ug/l	0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.47	65	209651	89.97	ug/l	0.03
Spiked Amount	50.000		Recovery	=	179.94%	
35) Dibromofluoromethane	6.94	113	149966	57.55	ug/l	0.03
Spiked Amount	50.000		Recovery	=	115.10%	
50) Toluene-d8	10.42	98	270300	46.35	ug/l	0.02
Spiked Amount	50.000		Recovery	=	92.70%	
62) 4-Bromofluorobenzene	13.57	95	112769	42.43	ug/l	0.02
Spiked Amount	50.000		Recovery	=	84.86%	

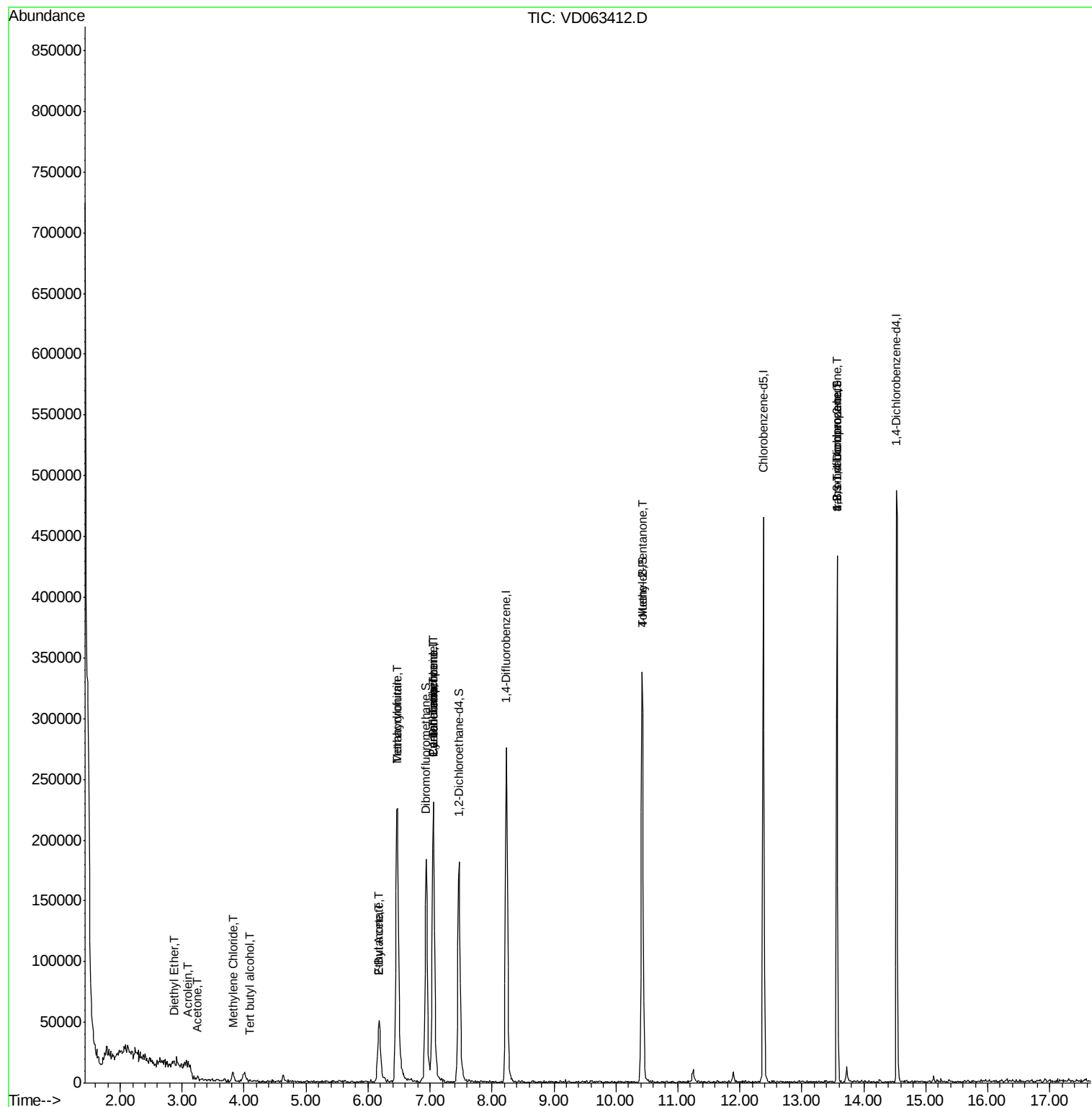
Target Compounds						Qvalue
8) Diethyl Ether	2.87	74	1124	2.005	ug/l	69
11) Tert butyl alcohol	4.08	59	370	3.618	ug/l #	69
13) Acrolein	3.11	56	1176	11.949	ug/l	87
16) Acetone	3.24	43	586	1.291	ug/l #	62
20) Methylene Chloride	3.83	84	4963	2.704	ug/l #	59
25) 2-Butanone	6.18	43	3986	8.748	ug/l #	56
29) Tetrahydrofuran	6.46	42	191835	889.216	ug/l	97
31) Cyclohexane	7.06	56	4906	2.363	ug/l #	29
36) 1,1-Dichloropropene	7.05	75	17922	6.434	ug/l #	53
37) Ethyl Acetate	6.18	43	3986	3.185	ug/l #	1
38) Carbon Tetrachloride	7.05	117	22023	5.252	ug/l #	15
41) Methacrylonitrile	6.46	41	146002	97.530	ug/l #	84
51) 4-Methyl-2-Pentanone	10.43	43	1456	1.339	ug/l #	1
76) 1,2,3-Trichloropropane	13.57	75	48618	34.487	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.57	75	52025	132.900	ug/l #	3

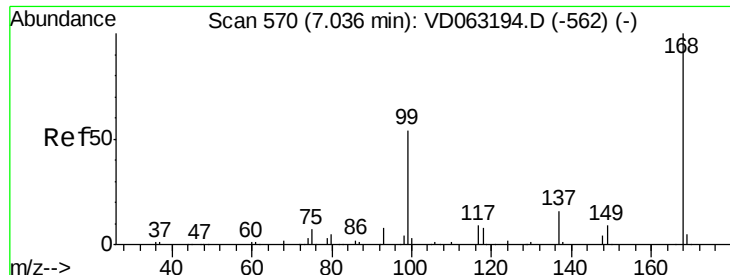
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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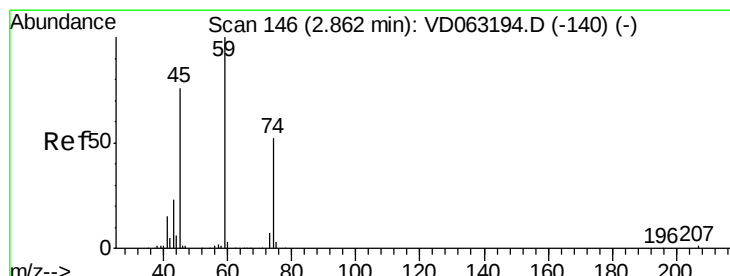
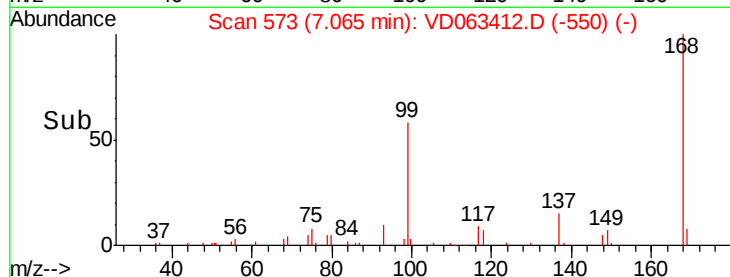
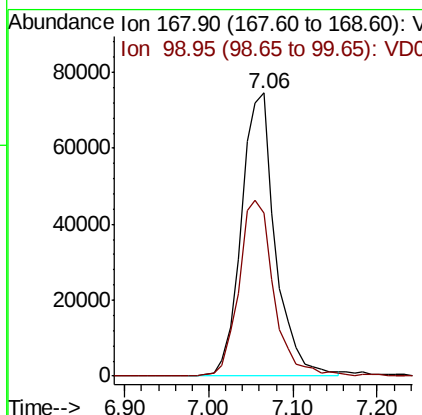
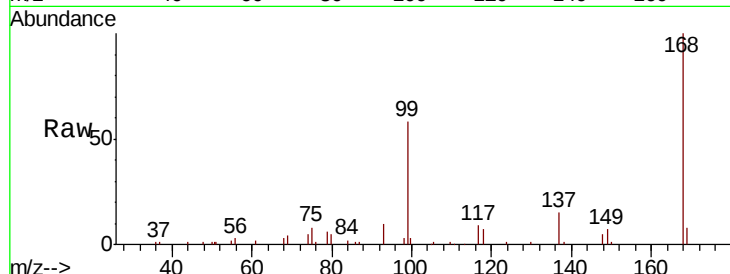




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.06 min Scan# 573
Delta R.T. 0.03 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

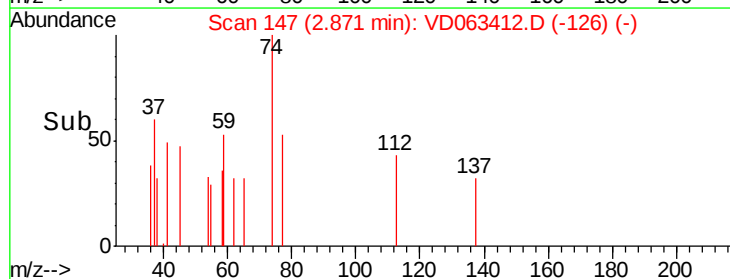
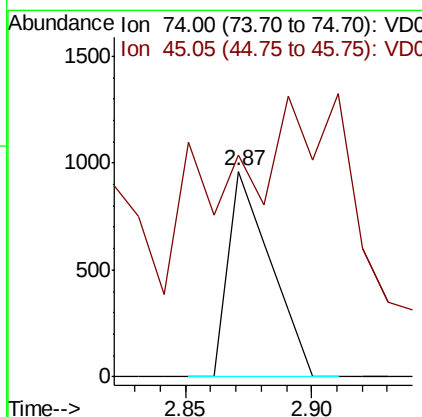
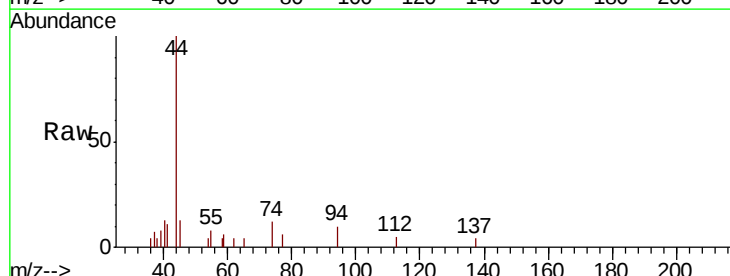
Instrument :
MSVOA_D
ClientSampleId :
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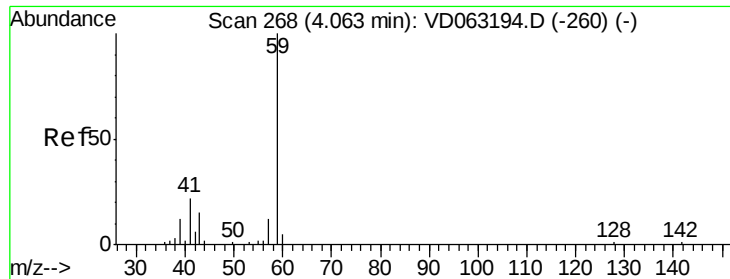
Tgt Ion: 168 Resp: 210016
Ion Ratio Lower Upper
168 100
99 57.6 43.7 65.5



#8
Diethyl Ether
Concen: 2.005 ug/l
RT: 2.87 min Scan# 147
Delta R.T. 0.01 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

Tgt Ion: 74 Resp: 1124
Ion Ratio Lower Upper
74 100
45 107.8 73.6 220.8

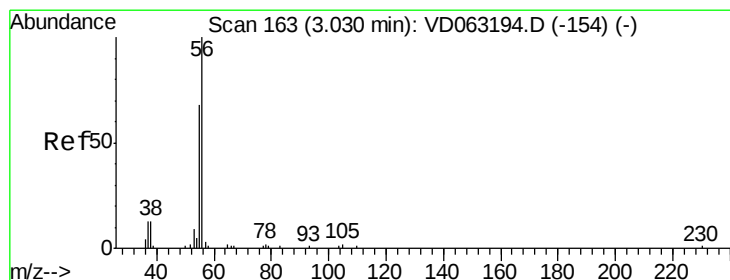
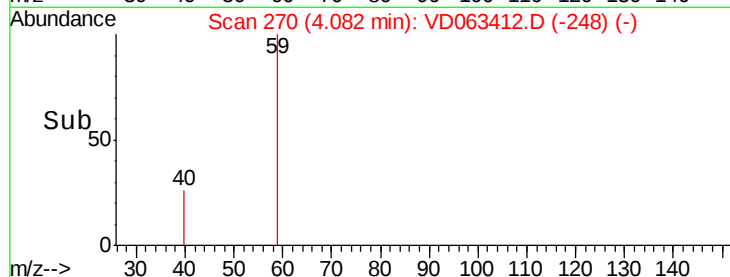
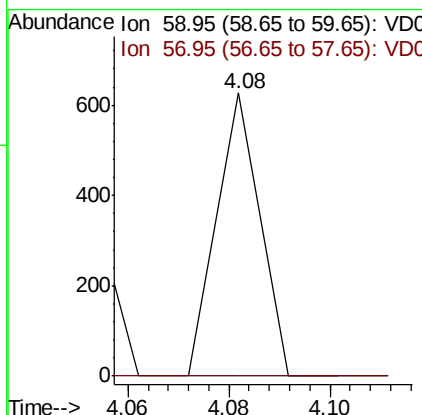
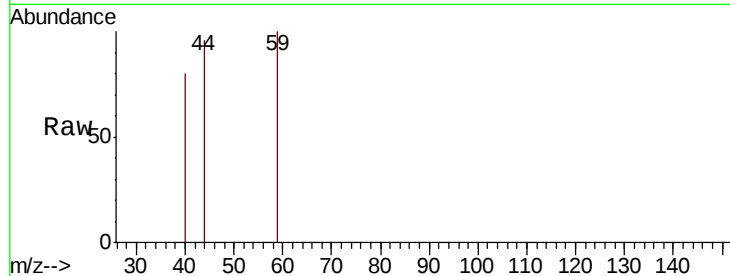




#11
Tert butyl alcohol
Concen: 3.618 ug/l
RT: 4.08 min Scan# 270
Delta R.T. 0.02 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

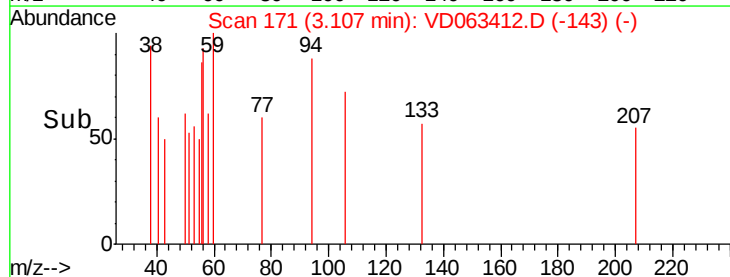
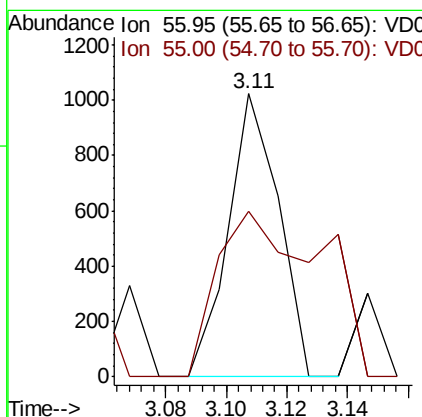
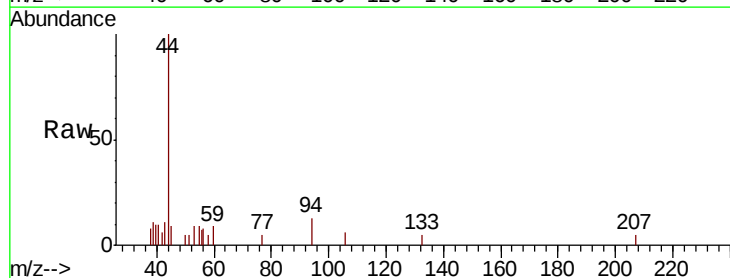
Instrument :
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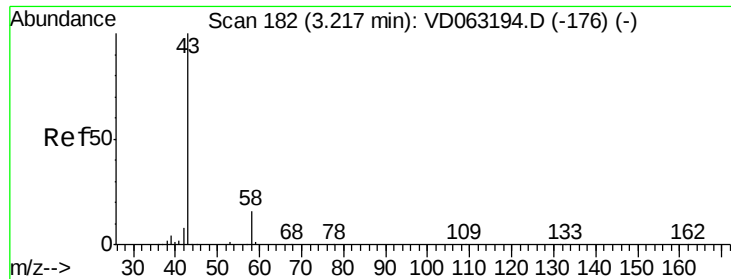
Tgt Ion: 59 Resp: 370
Ion Ratio Lower Upper
59 100
57 0.0 9.6 14.4#



#13
Acrolein
Concen: 11.949 ug/l
RT: 3.11 min Scan# 171
Delta R.T. 0.08 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

Tgt Ion: 56 Resp: 1176
Ion Ratio Lower Upper
56 100
55 58.7 55.3 82.9

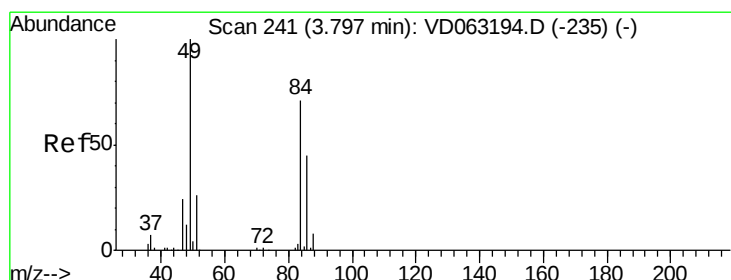
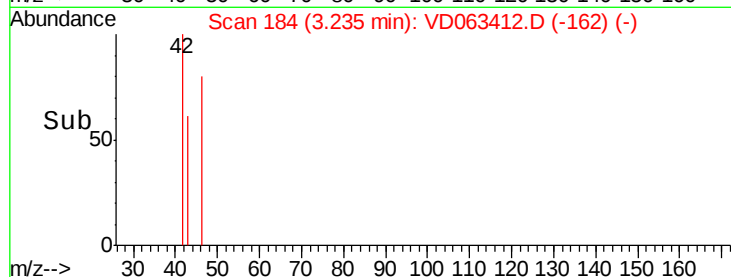
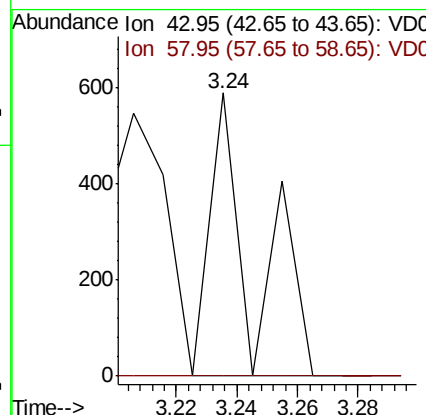
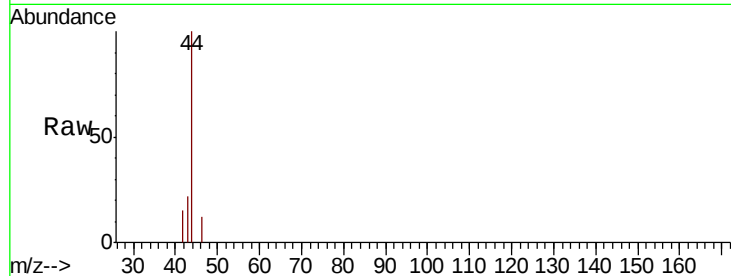




#16
Acetone
Concen: 1.291 ug/l
RT: 3.24 min Scan# 184
Delta R.T. 0.02 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

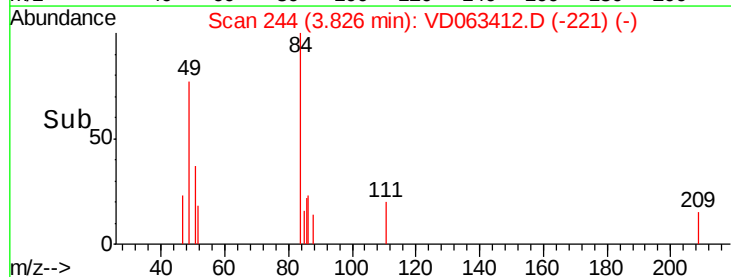
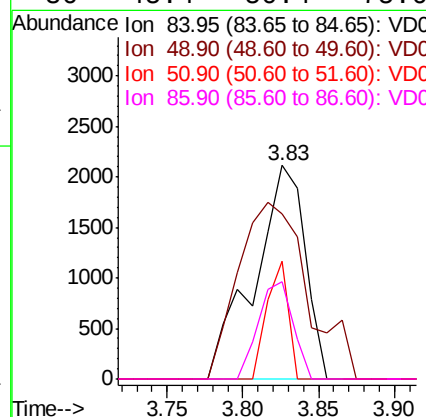
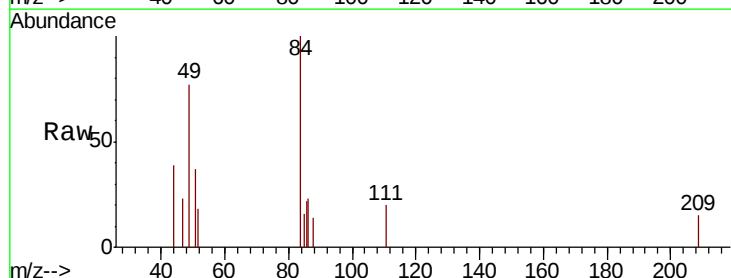
Instrument :
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ClientSampleId :
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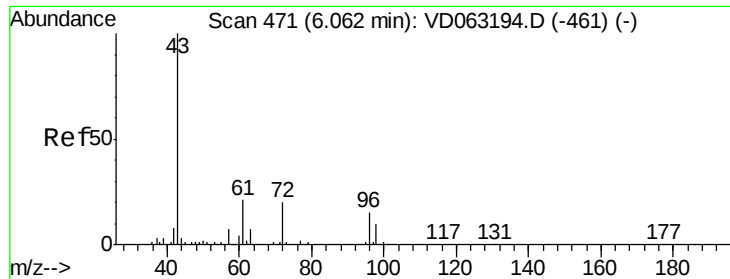
Tgt Ion: 43 Resp: 586
Ion Ratio Lower Upper
43 100
58 0.0 13.0 19.4#



#20
Methylene Chloride
Concen: 2.704 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

Tgt Ion: 84 Resp: 4963
Ion Ratio Lower Upper
84 100
49 77.4 112.5 168.7#
51 55.3 29.6 44.4#
86 45.4 50.4 75.6#

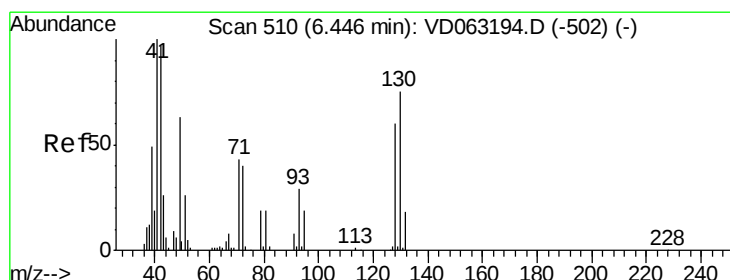
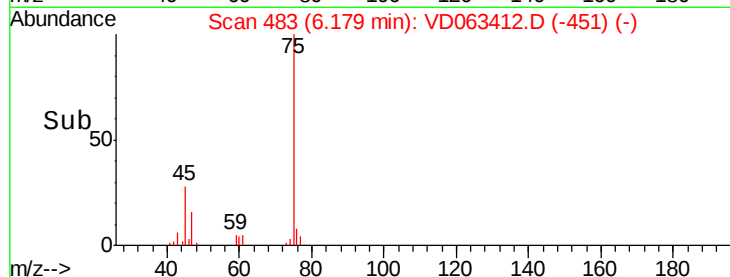
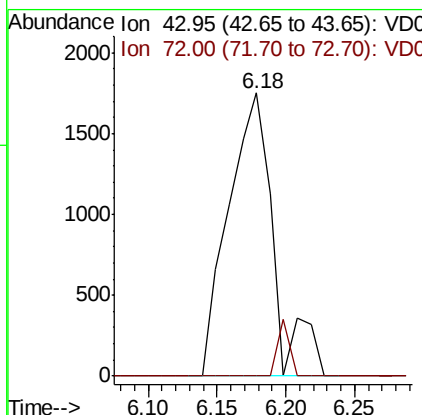
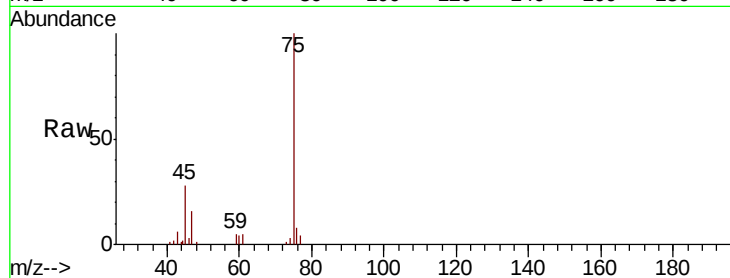




#25
2-Butanone
Concen: 8.748 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.12 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

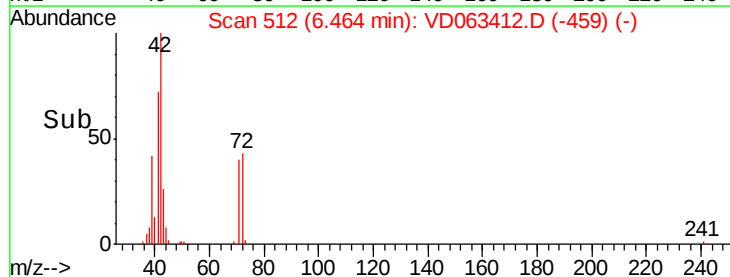
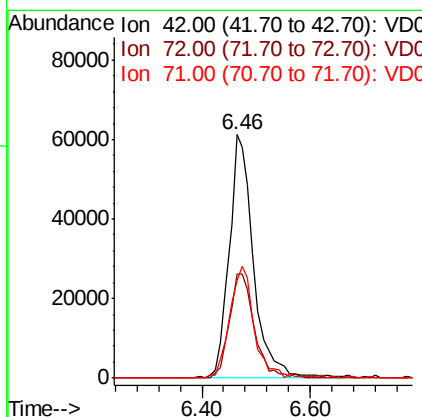
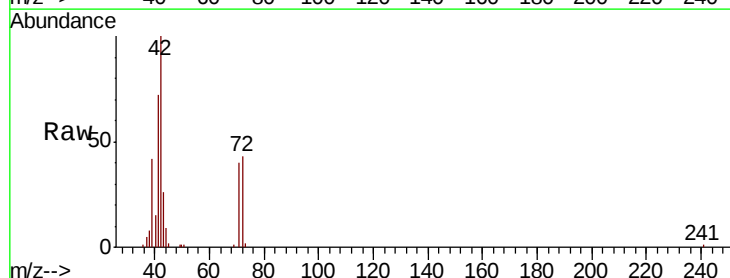
Instrument :
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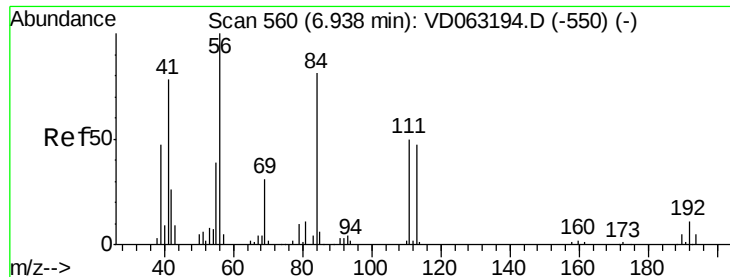
Tgt Ion: 43 Resp: 3986
Ion Ratio Lower Upper
43 100
72 0.0 16.3 24.5#



#29
Tetrahydrofuran
Concen: 889.216 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.02 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

Tgt Ion: 42 Resp: 191835
Ion Ratio Lower Upper
42 100
72 43.8 33.4 50.2
71 45.9 35.7 53.5

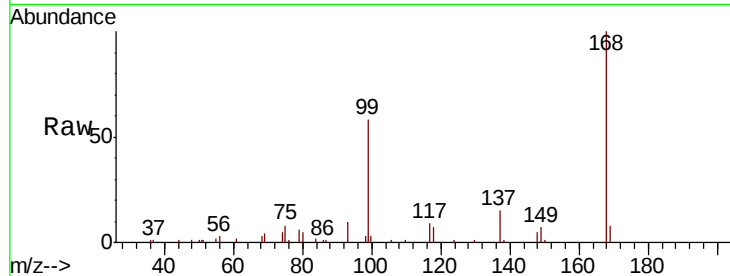




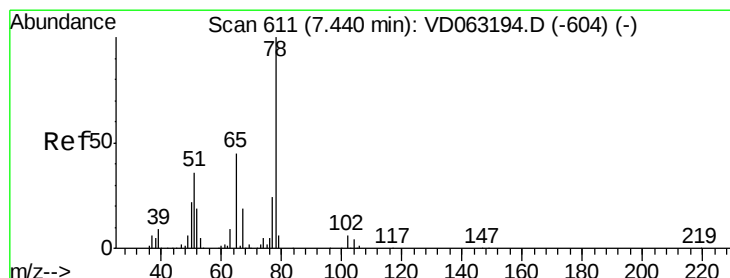
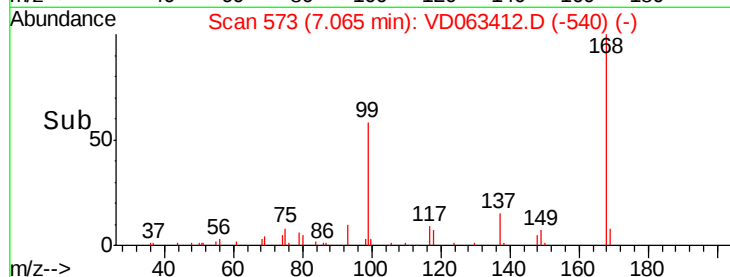
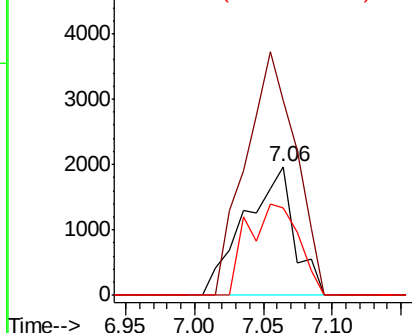
#31
Cyclohexane
Concen: 2.363 ug/l
RT: 7.06 min Scan# 573
Delta R.T. 0.13 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

Instrument :
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ClientSampleId :
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Tgt Ion: 56 Resp: 4906
Ion Ratio Lower Upper
56 100
69 151.0 24.5 36.7#
84 67.7 64.9 97.3

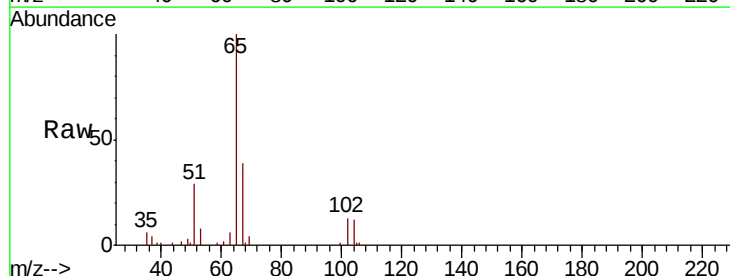


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

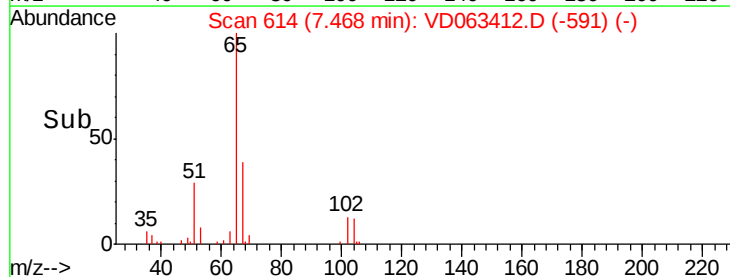
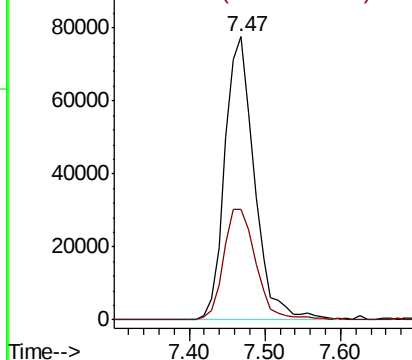


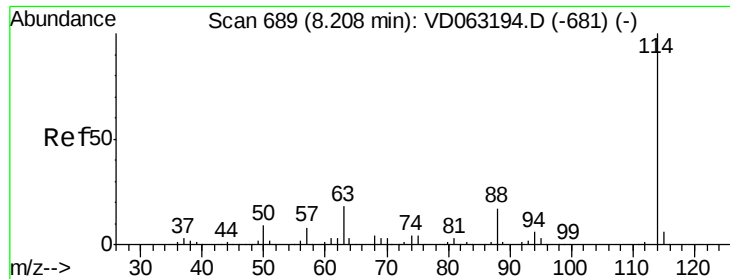
#33
1,2-Dichloroethane-d4
Concen: 89.966 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.03 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

Tgt Ion: 65 Resp: 209651
Ion Ratio Lower Upper
65 100
67 39.0 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

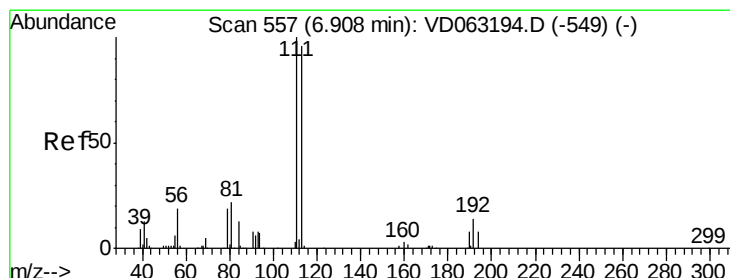
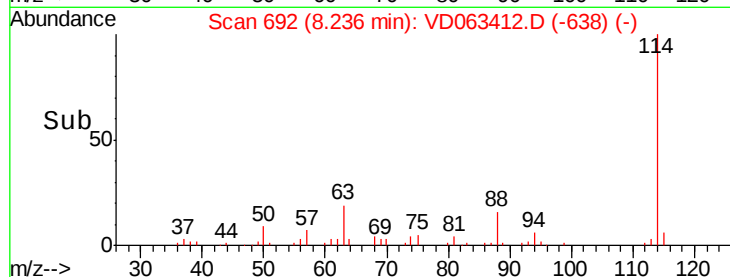
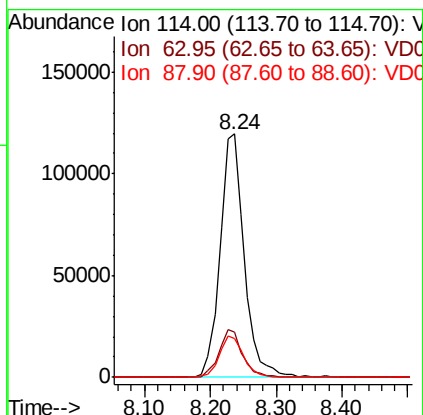
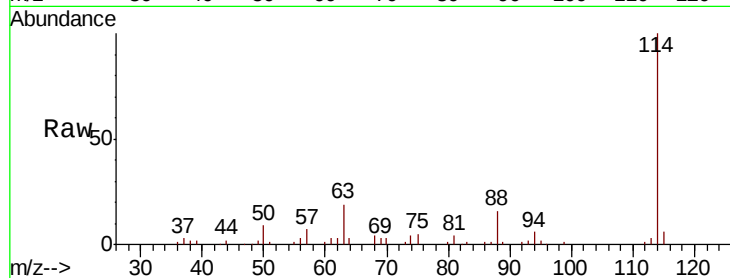




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.03 min
 Lab File: VD063412.D
 Acq: 6 Aug 2019 21:16

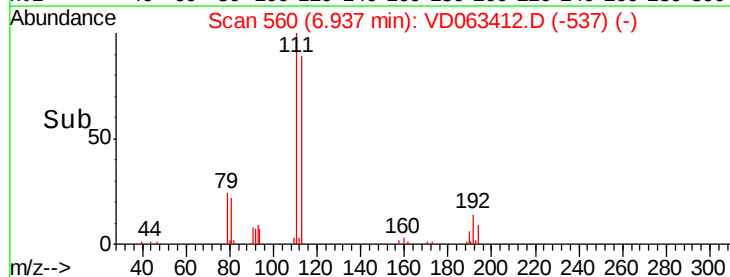
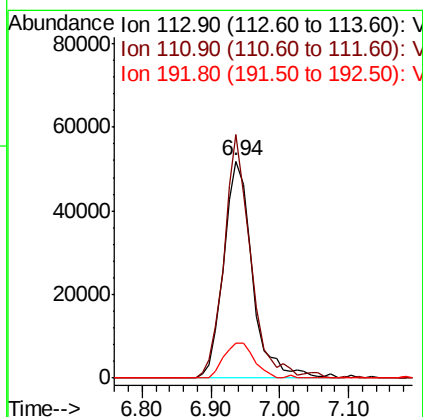
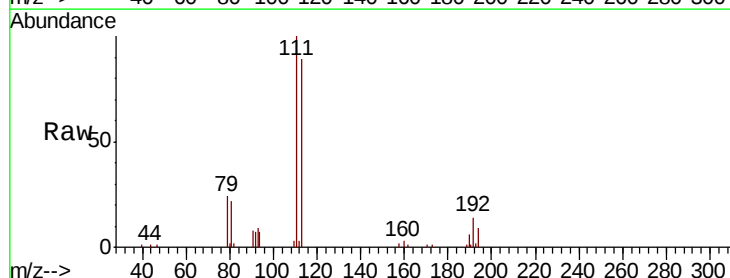
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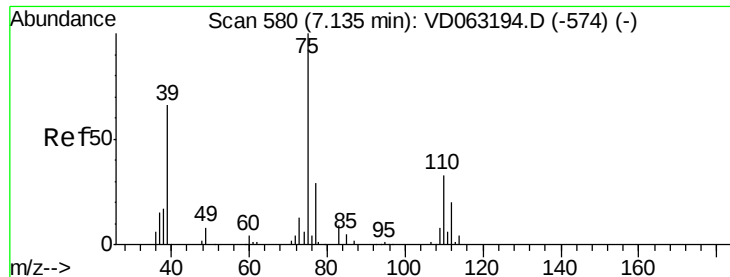
Tgt Ion:114 Resp: 305229
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 35.2
 88 15.9 0.0 34.6



#35
 Dibromofluoromethane
 Concen: 57.546 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.03 min
 Lab File: VD063412.D
 Acq: 6 Aug 2019 21:16

Tgt Ion:113 Resp: 149966
 Ion Ratio Lower Upper
 113 100
 111 112.2 83.2 124.8
 192 15.9 11.8 17.8





#36

1,1-Dichloropropene

Concen: 6.434 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.08 min

Lab File: VD063412.D

Acq: 6 Aug 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

CP-SHALLOW-PIPE-SOILRE

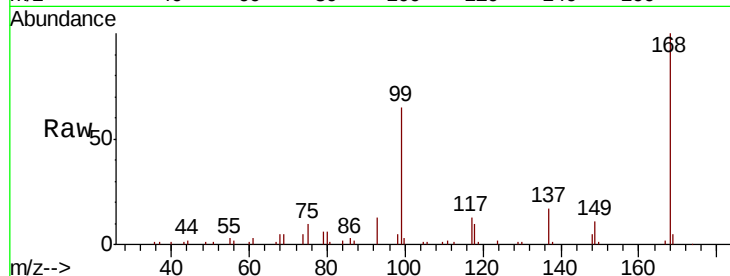
Tgt Ion: 75 Resp: 17922

Ion Ratio Lower Upper

75 100

110 9.5 16.1 48.2#

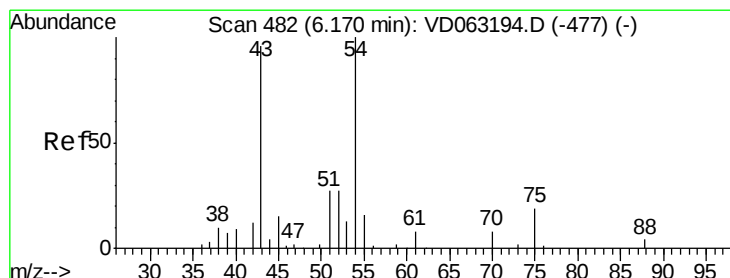
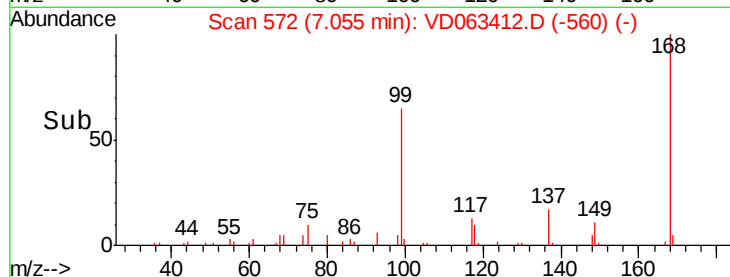
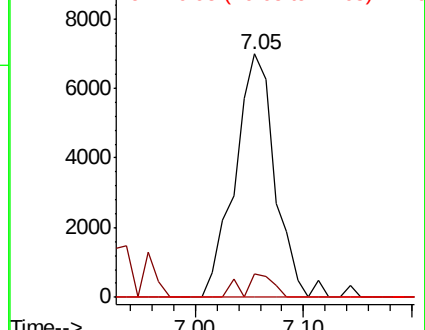
77 0.0 22.7 34.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 3.185 ug/l

RT: 6.18 min Scan# 483

Delta R.T. 0.01 min

Lab File: VD063412.D

Acq: 6 Aug 2019 21:16

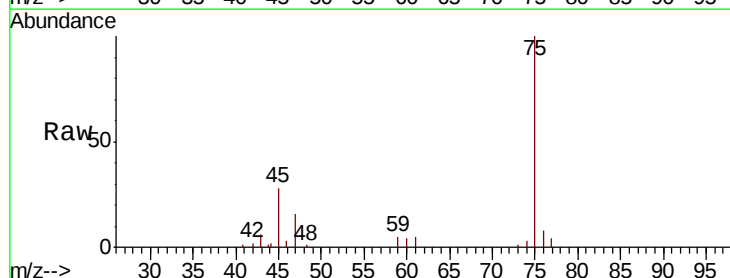
Tgt Ion: 43 Resp: 3986

Ion Ratio Lower Upper

43 100

61 71.6 11.3 16.9#

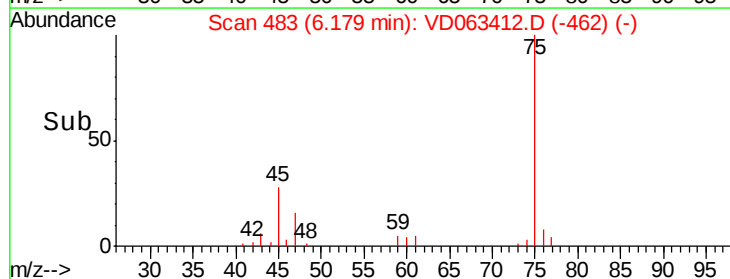
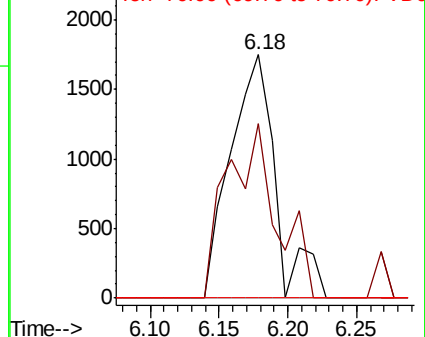
70 0.0 5.1 7.7#

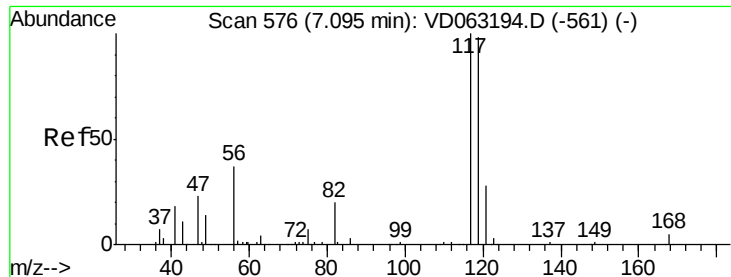


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.252 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD063412.D

Acq: 6 Aug 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

CP-SHALLOW-PIPE-SOILRE

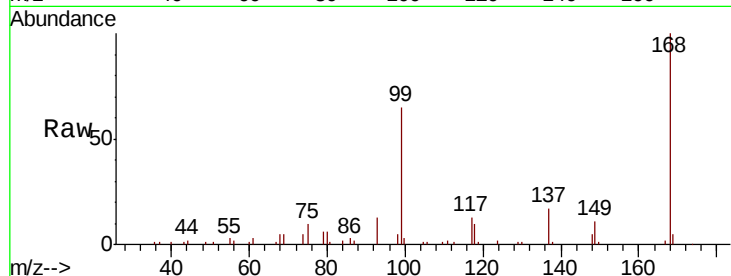
Tgt Ion:117 Resp: 22023

Ion Ratio Lower Upper

117 100

119 5.2 78.2 117.2#

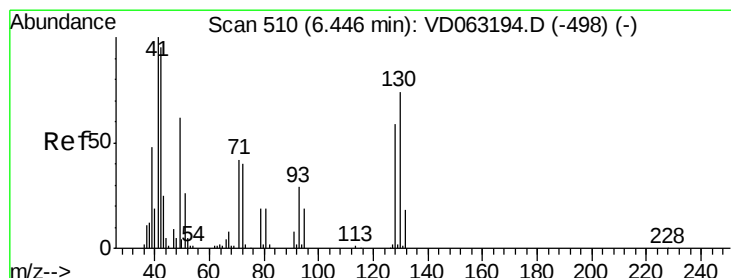
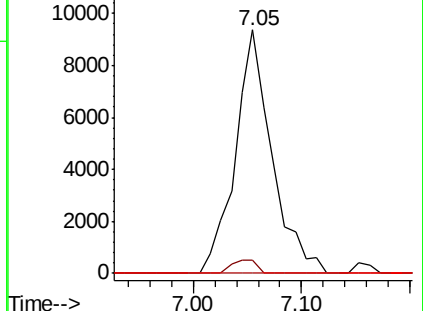
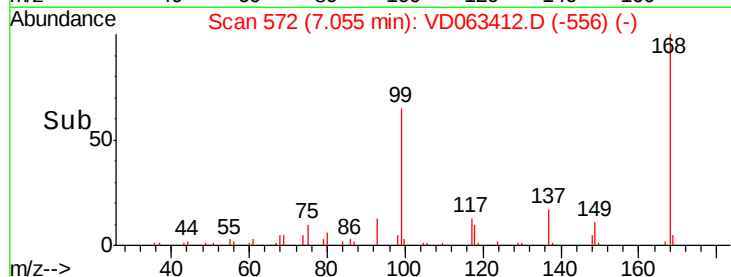
121 0.0 22.1 33.1#



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



#41

Methacrylonitrile

Concen: 97.530 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD063412.D

Acq: 6 Aug 2019 21:16

Tgt Ion: 41 Resp: 146002

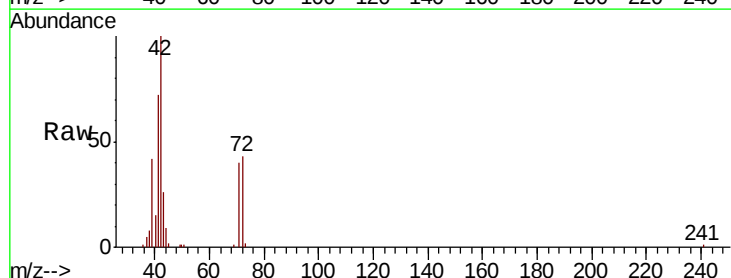
Ion Ratio Lower Upper

41 100

39 58.3 38.4 57.6#

67 0.0 6.7 10.1#

52 0.0 4.3 6.5#

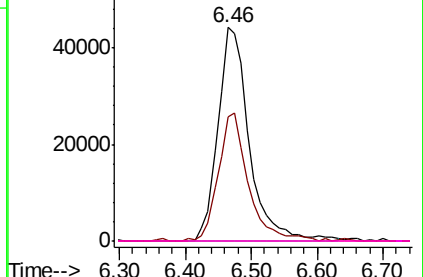
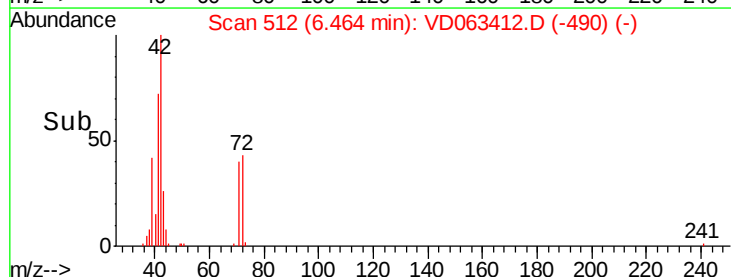


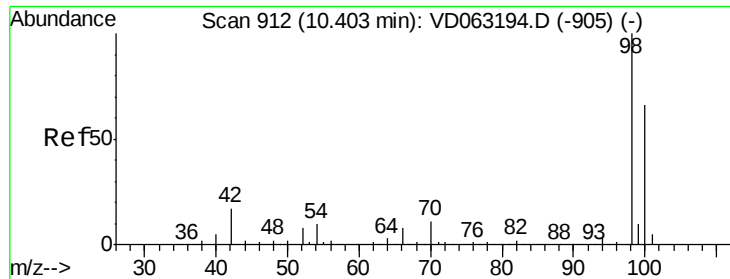
Abundance Ion 40.95 (40.65 to 41.65): V

Ion 38.95 (38.65 to 39.65): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

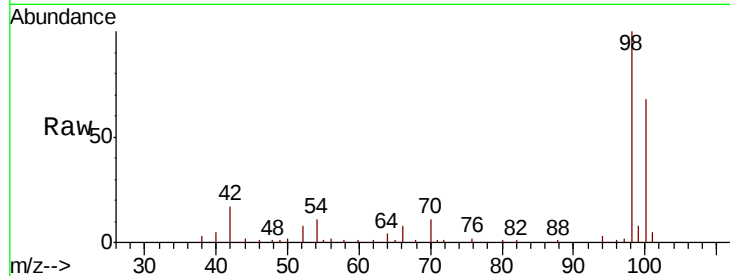




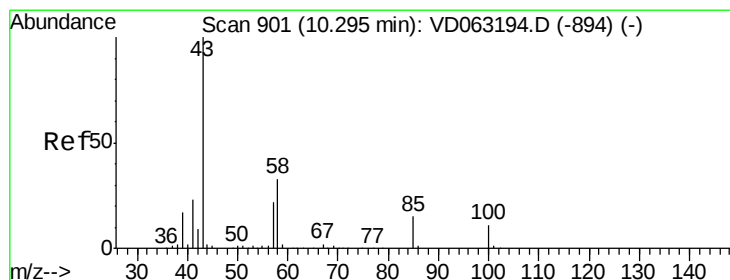
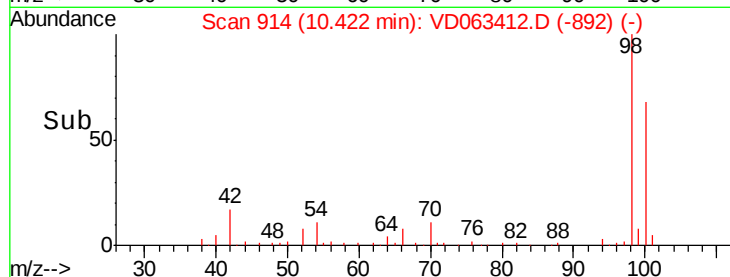
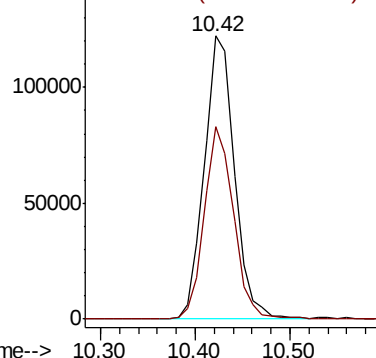
#50
Toluene-d8
Concen: 46.346 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

Instrument :
MSVOA_D
ClientSampleId :
CP-SHALLOW-PIPE-SOILRE

Tgt Ion: 98 Resp: 270300
Ion Ratio Lower Upper
98 100
100 68.2 53.2 79.8

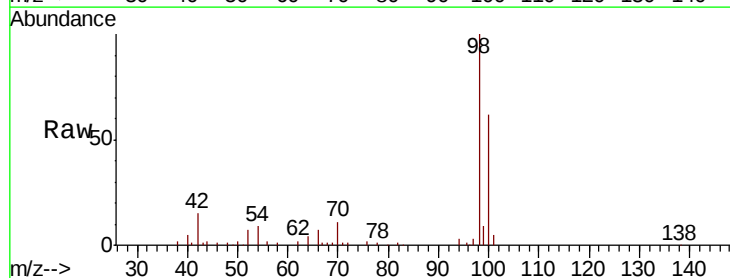


Abundance Ion 98.05 (97.75 to 98.75): VD063412.D (-892) (-)
Ion 100.05 (99.75 to 100.75): VD063412.D (-892) (-)

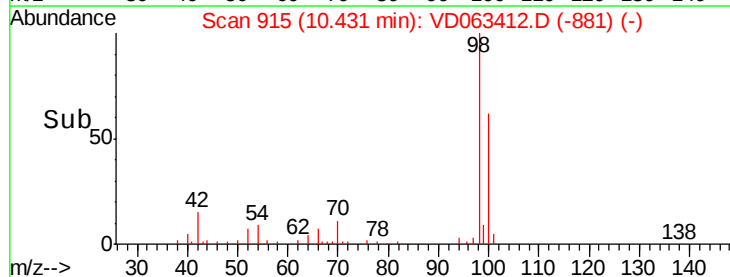
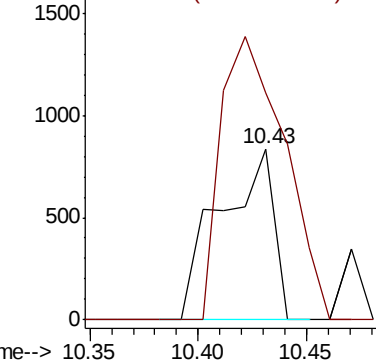


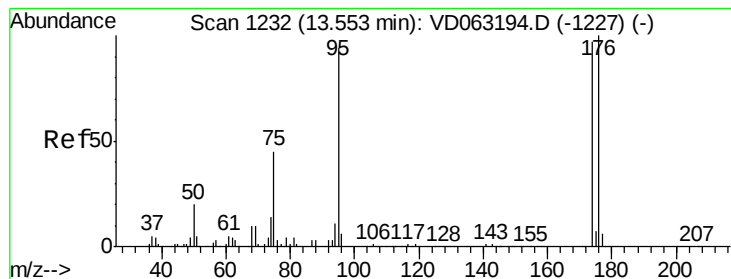
#51
4-Methyl-2-Pentanone
Concen: 1.339 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.14 min
Lab File: VD063412.D
Acq: 6 Aug 2019 21:16

Tgt Ion: 43 Resp: 1456
Ion Ratio Lower Upper
43 100
58 132.9 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VD063412.D (-881) (-)
Ion 57.95 (57.65 to 58.65): VD063412.D (-881) (-)





#62

4-Bromofluorobenzene

Concen: 42.431 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD063412.D

Acq: 6 Aug 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

CP-SHALLOW-PIPE-SOILRE

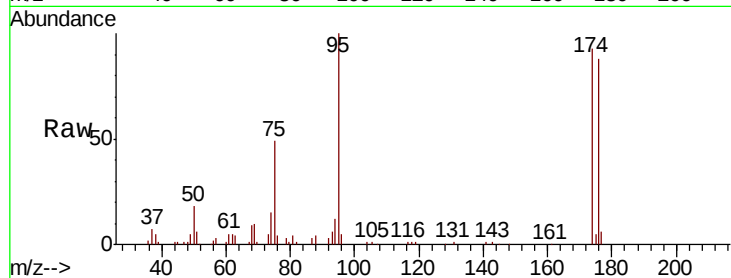
Tgt Ion: 95 Resp: 112769

Ion Ratio Lower Upper

95 100

174 93.2 0.0 205.4

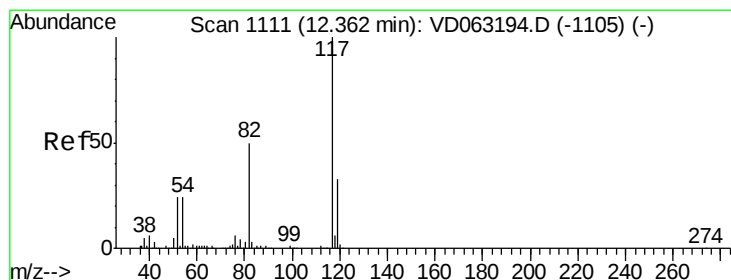
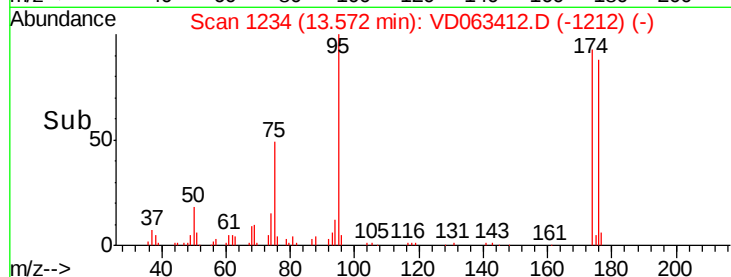
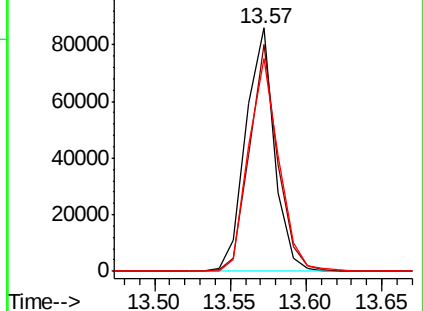
176 87.7 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD063412.D

Acq: 6 Aug 2019 21:16

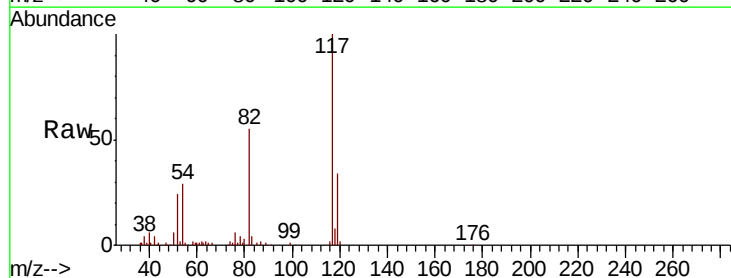
Tgt Ion: 117 Resp: 231498

Ion Ratio Lower Upper

117 100

82 55.3 40.1 60.1

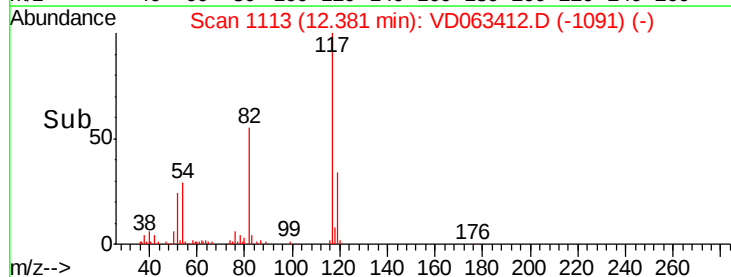
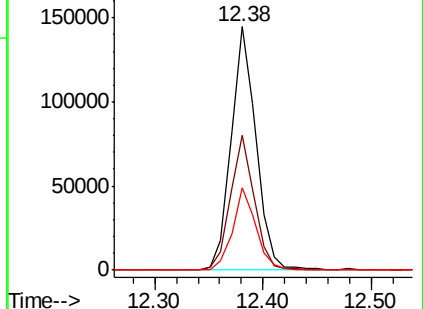
119 33.7 26.5 39.7

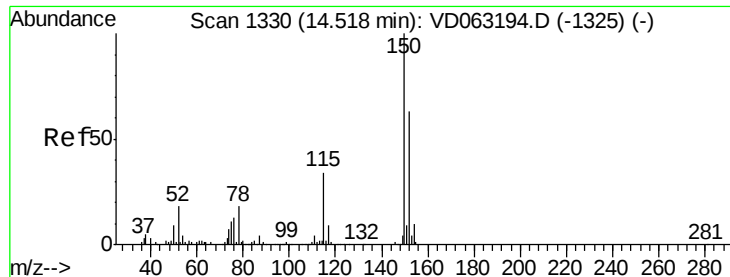


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.54 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD063412.D

Acq: 6 Aug 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

CP-SHALLOW-PIPE-SOILRE

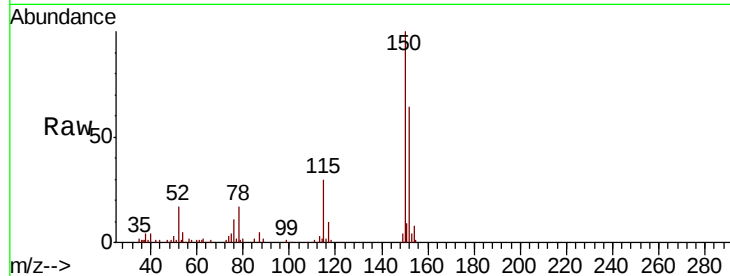
Tgt Ion:152 Resp: 117369

Ion Ratio Lower Upper

152 100

115 47.1 27.5 82.4

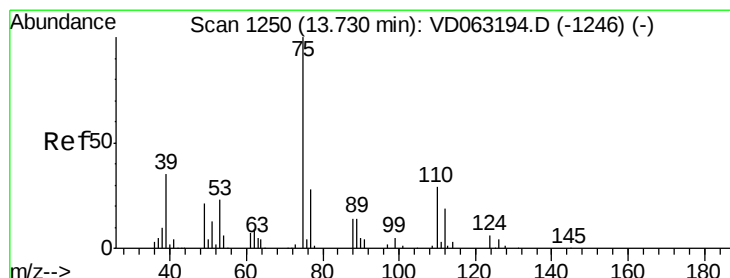
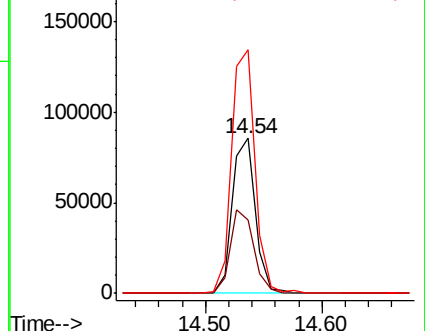
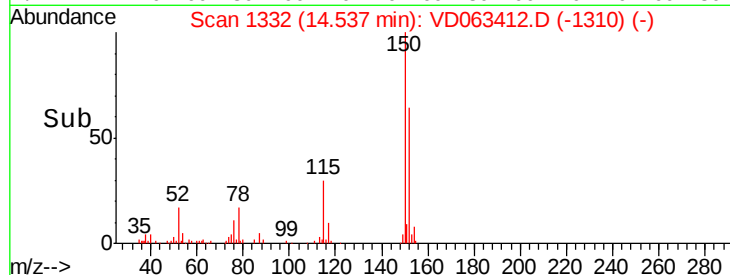
150 157.3 0.0 320.6



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



#76

1,2,3-Trichloropropane

Concen: 34.487 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD063412.D

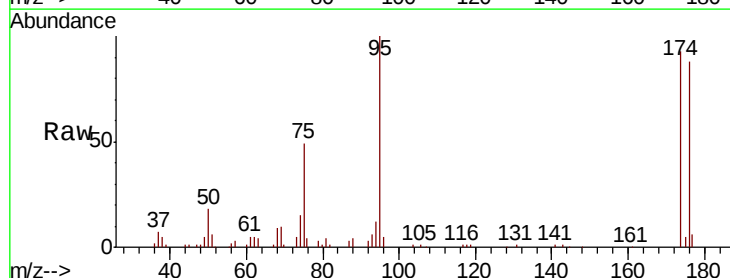
Acq: 6 Aug 2019 21:16

Tgt Ion: 75 Resp: 48618

Ion Ratio Lower Upper

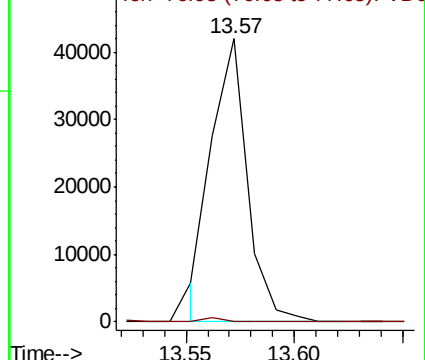
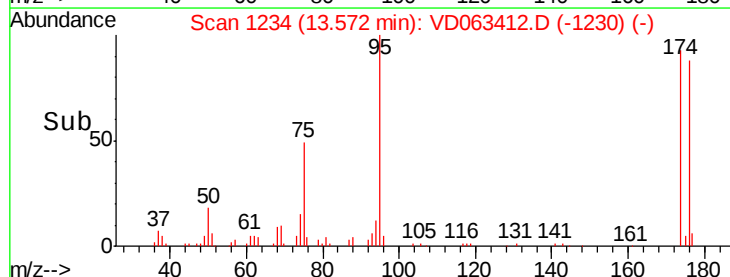
75 100

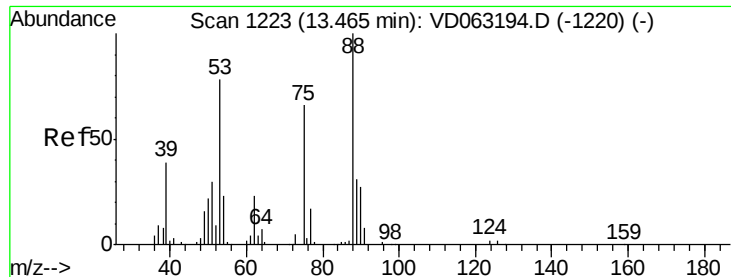
77 0.0 16.0 48.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 132.900 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.11 min

Lab File: VD063412.D

Acq: 6 Aug 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

CP-SHALLOW-PIPE-SOILRE

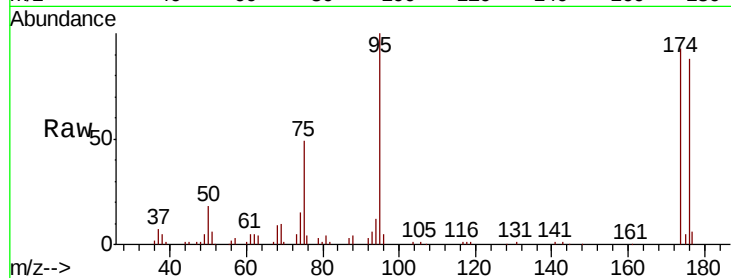
Tgt Ion: 75 Resp: 52025

Ion Ratio Lower Upper

75 100

53 0.0 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

