

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122319\
 Data File : VD064572.D
 Acq On : 23 Dec 2019 17:00
 Operator : VA/SY
 Sample : K6396-11
 Misc : 5.90G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-DUPLICATE

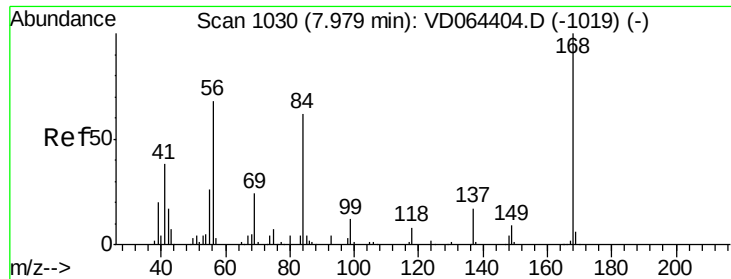
Quant Time: Dec 24 05:55:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	460175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	726316	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	744499	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	377595	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	200202	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
35) Dibromofluoromethane	7.92	113	223945	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
50) Toluene-d8	10.34	98	893606	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
62) 4-Bromofluorobenzene	12.64	95	325467	58.75	ug/l	0.00
Spiked Amount			Recovery	=	117.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.28	59	413	1.558	ug/l #	100
16) Acetone	4.19	43	1230	1.461	ug/l #	47
20) Methylene Chloride	4.96	84	8932	Below Cal	#	87
30) Chloroform	7.71	83	15909	1.999	ug/l	86
31) Cyclohexane	7.99	56	9049	Below Cal	#	41
36) 1,1-Dichloropropene	7.98	75	32110	4.674	ug/l #	50
38) Carbon Tetrachloride	7.98	117	40694	5.612	ug/l #	14
51) 4-Methyl-2-Pentanone	10.34	43	4448	1.568	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	176176	56.735	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	176176	123.713	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.56	75	205	Below Cal	#	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064572.D

Acq: 23 Dec 2019 17:00

Instrument :

MSVOA_D

ClientSampleId :

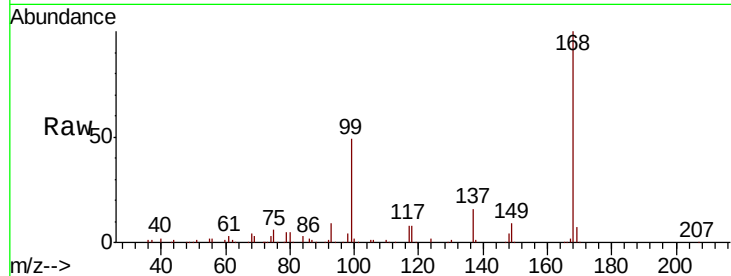
SOIL-DUPLICATE

Tot Ion:168 Resp: 460175

Ion Ratio Lower Upper

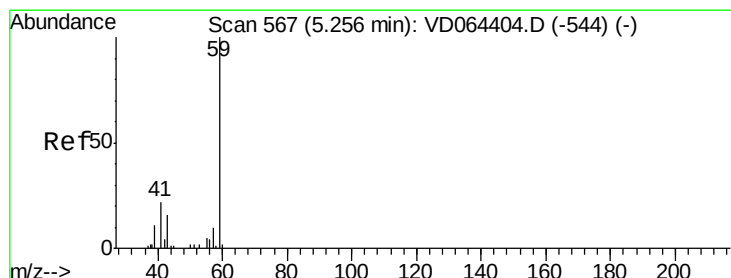
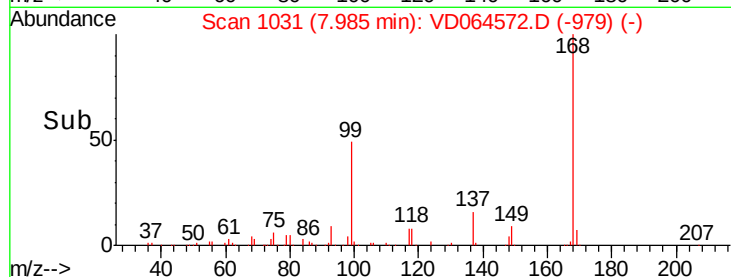
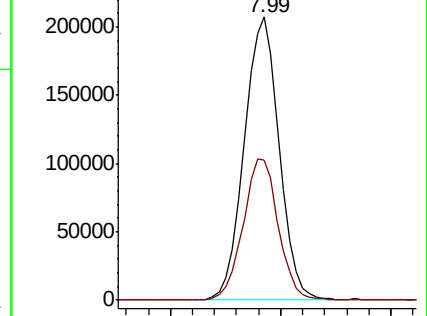
168 100

99 49.2 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 1.558 ug/l

RT: 5.28 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD064572.D

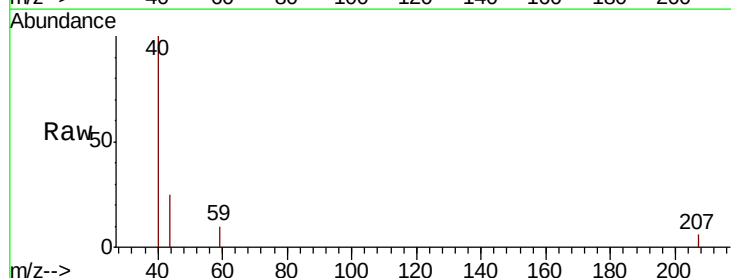
Acq: 23 Dec 2019 17:00

Tgt Ion: 59 Resp: 413

Ion Ratio Lower Upper

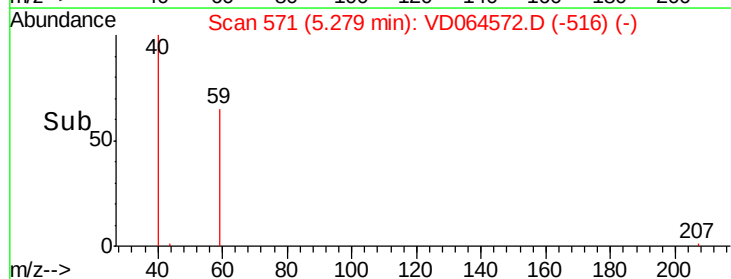
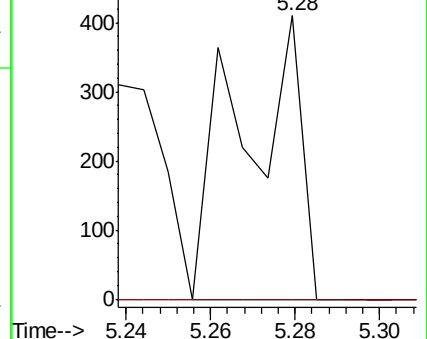
59 100

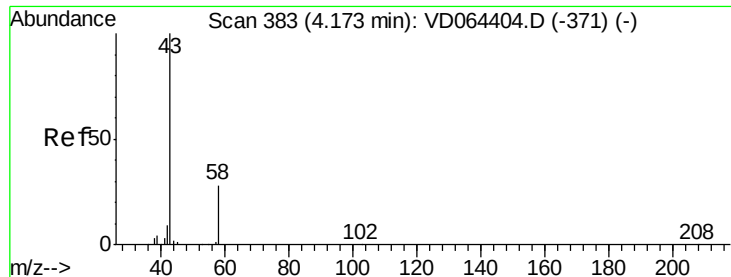
57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 1.461 ug/l

RT: 4.19 min Scan# 385

Delta R.T. 0.01 min

Lab File: VD064572.D

Acq: 23 Dec 2019 17:00

Instrument :

MSVOA_D

ClientSampleId :

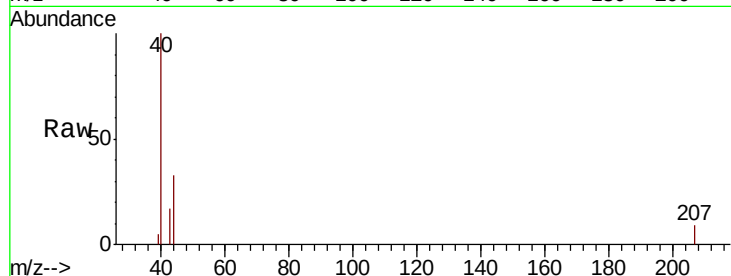
SOIL-DUPLICATE

Tot Ion: 43 Resp: 1230

Ion Ratio Lower Upper

43 100

58 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.19

600

500

400

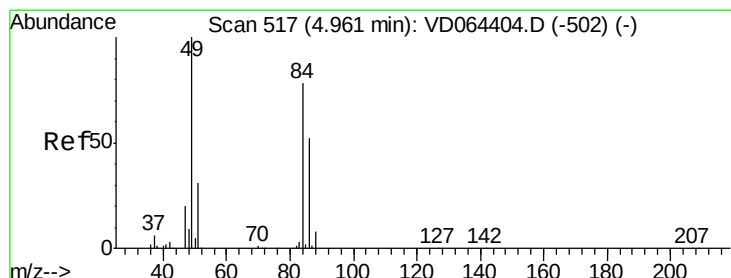
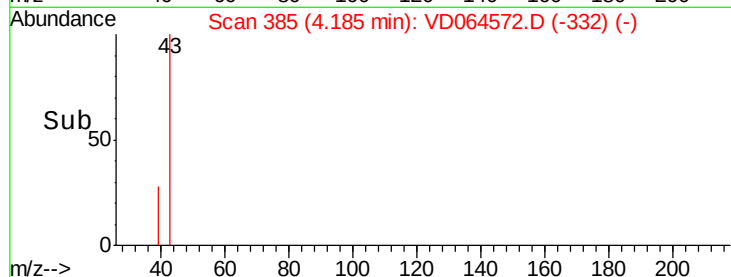
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064572.D

Acq: 23 Dec 2019 17:00

Tgt Ion: 84 Resp: 8932

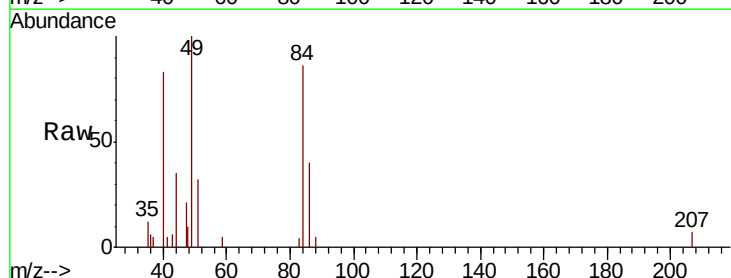
Ion Ratio Lower Upper

84 100

49 116.8 102.6 153.8

51 37.8 32.0 48.0

86 47.2 53.4 80.0#



Abundance Ion 83.90 (83.60 to 84.60): 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

5000

4000

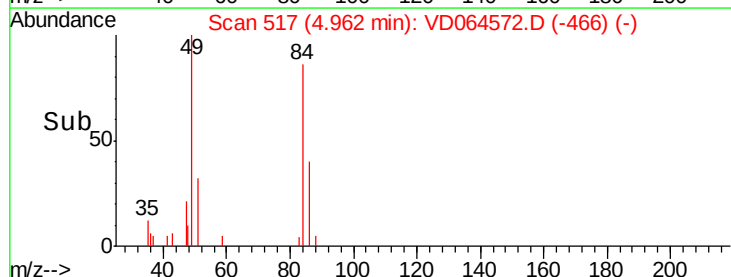
3000

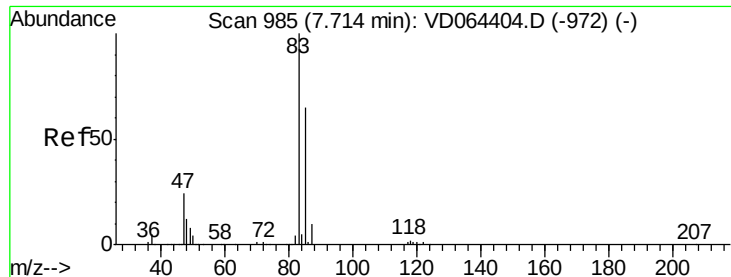
2000

1000

0

Time-->

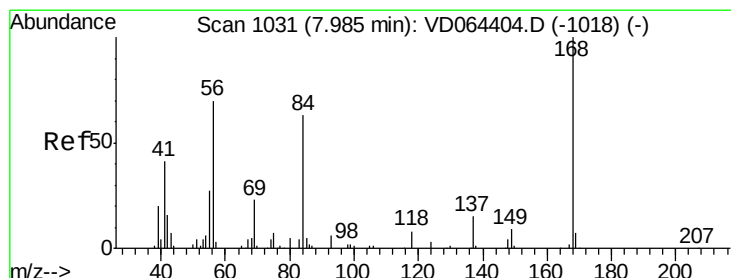
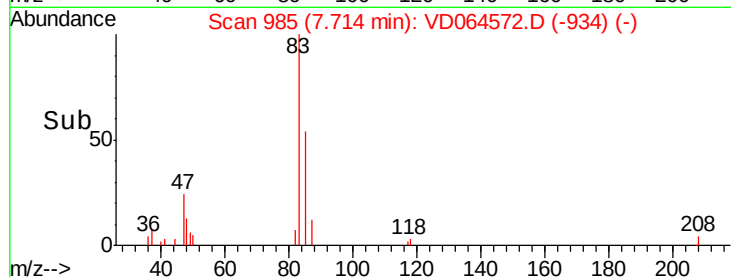
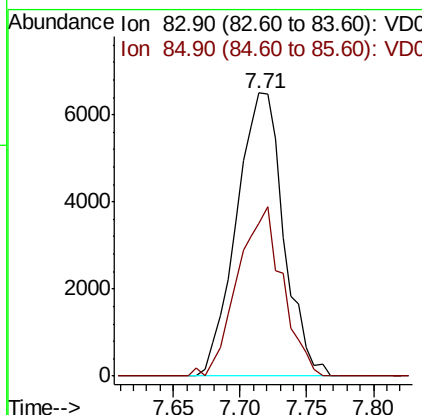
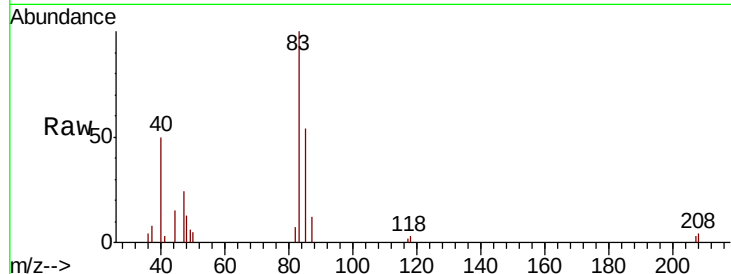




#30
Chloroform
Concen: 1.999 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064572.D
Acq: 23 Dec 2019 17:00

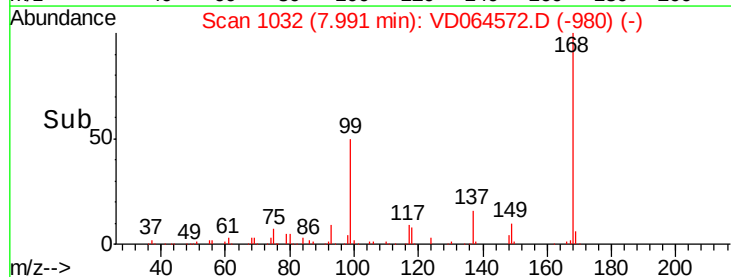
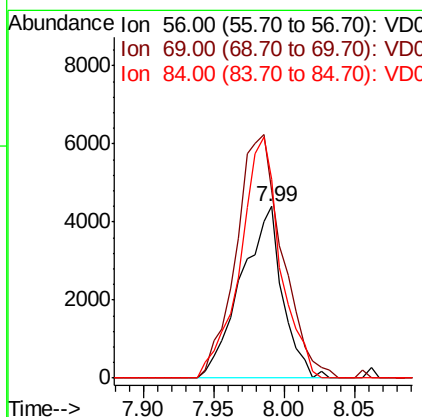
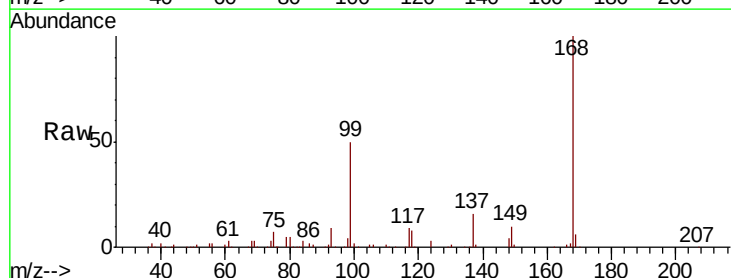
Instrument :
MSVOA_D
ClientSampleId :
SOIL-DUPLICATE

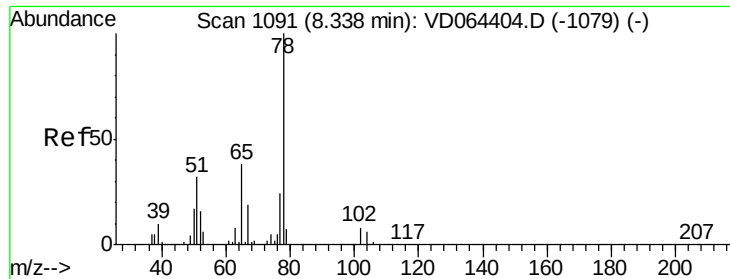
Tot Ion: 83 Resp: 15909
Ion Ratio Lower Upper
83 100
85 54.1 51.8 77.6



#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD064572.D
Acq: 23 Dec 2019 17:00

Tgt Ion: 56 Resp: 9049
Ion Ratio Lower Upper
56 100
69 109.2 26.2 39.4#
84 116.2 70.3 105.5#

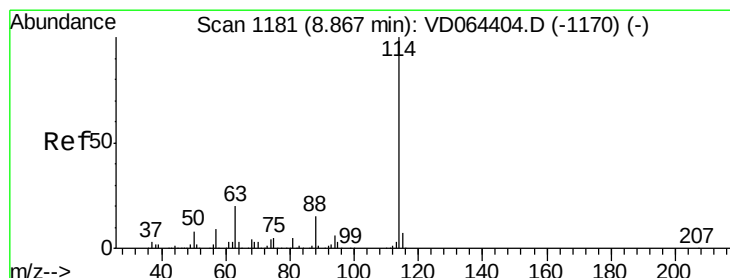
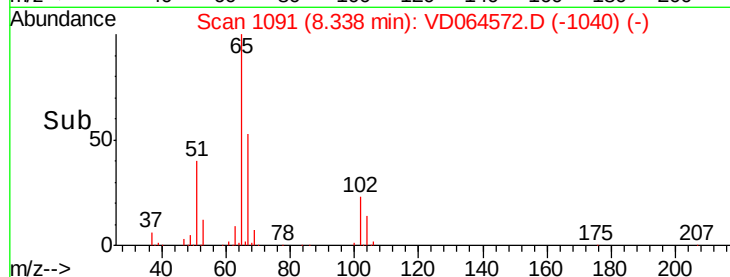
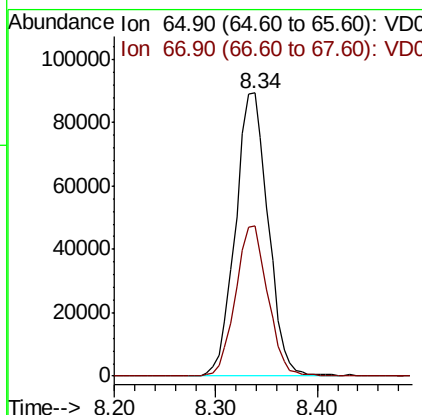
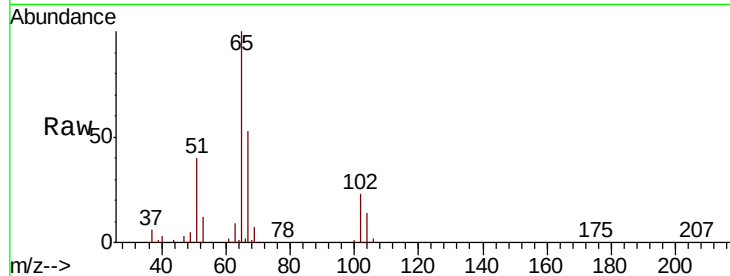




#33
 1,2-Dichloroethane-d4
 Concen: 48.065 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD064572.D
 Acq: 23 Dec 2019 17:00

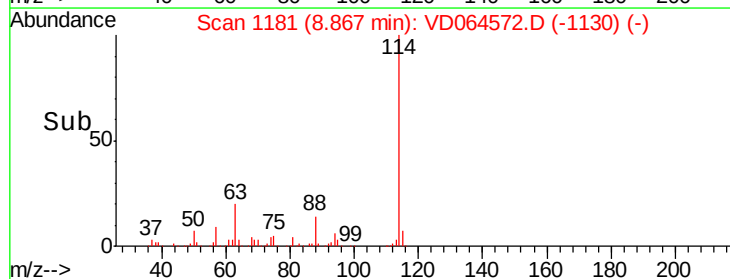
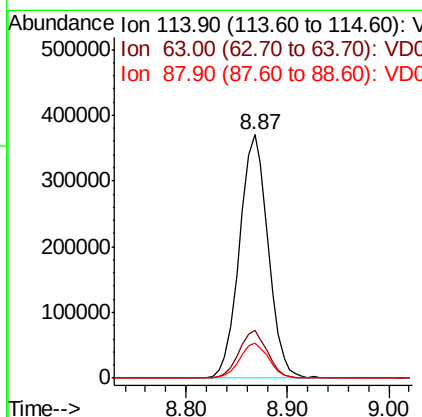
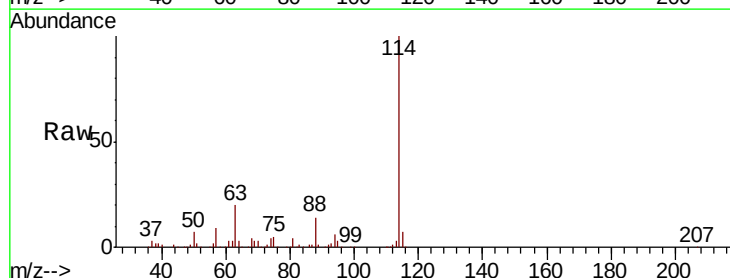
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-DUPLICATE

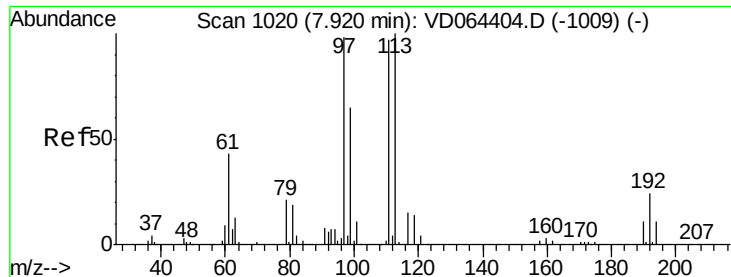
Tot Ion: 65 Resp: 200202
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064572.D
 Acq: 23 Dec 2019 17:00

Tgt Ion: 114 Resp: 726316
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 14.4 0.0 29.2

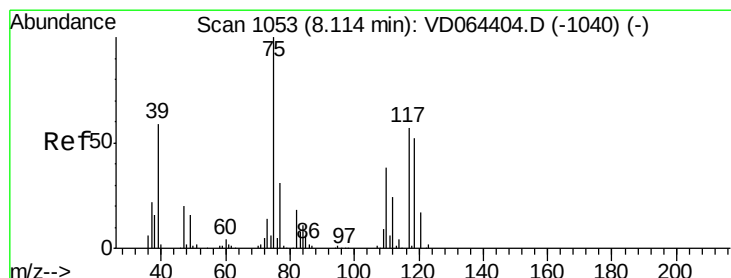
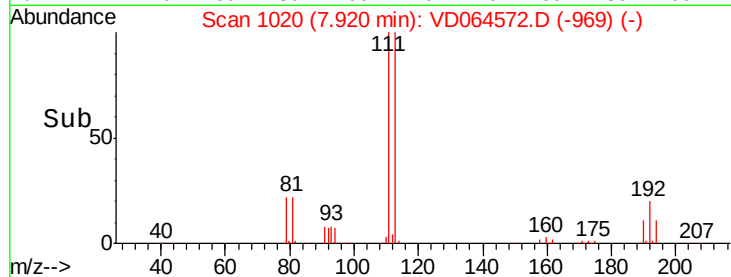
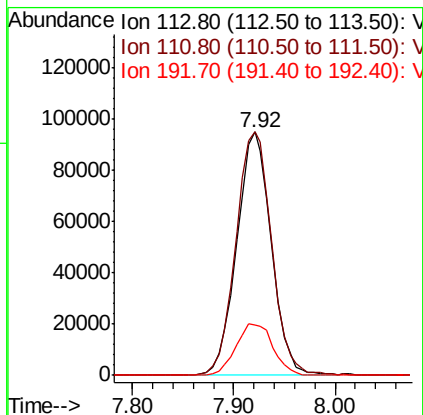
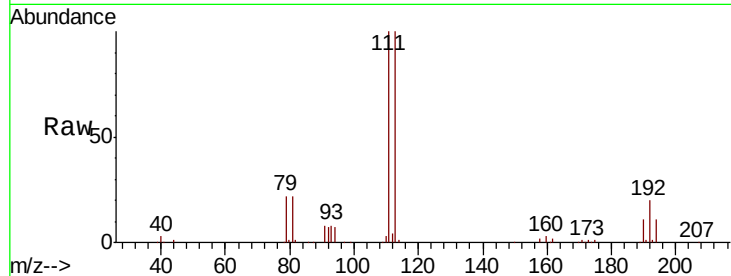




#35
 Dibromofluoromethane
 Concen: 48.937 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064572.D
 Acq: 23 Dec 2019 17:00

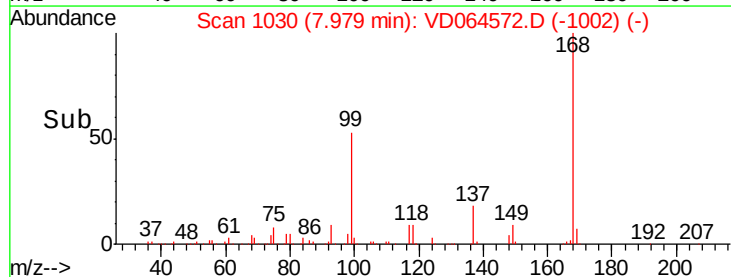
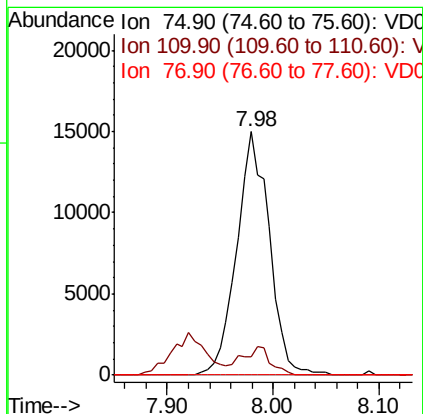
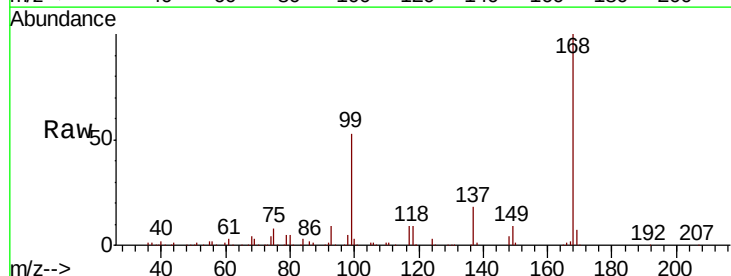
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-DUPLICATE

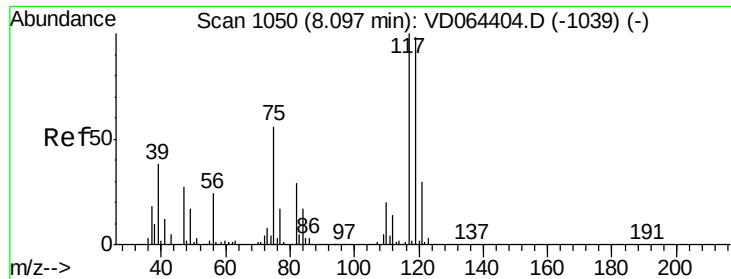
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	79.4	119.2
192	22.6	18.6	28.0



#36
 1,1-Dichloropropene
 Concen: 4.674 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064572.D
 Acq: 23 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	18.6	55.8#
77	0.0	25.0	37.4#

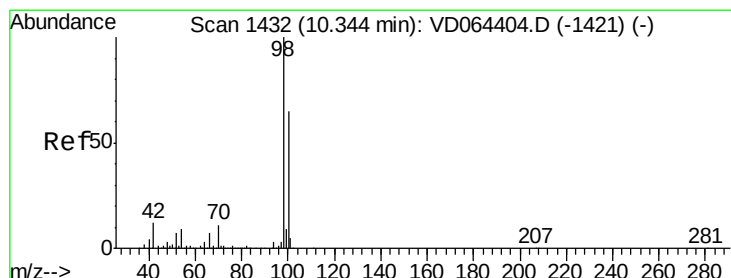
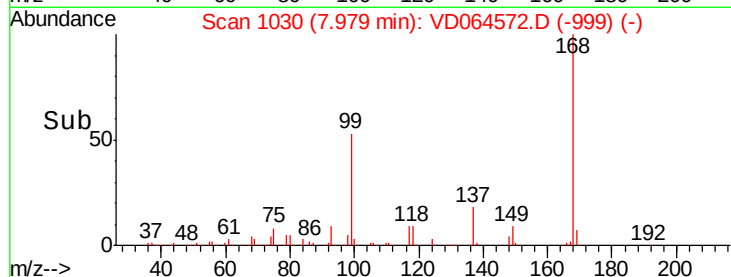
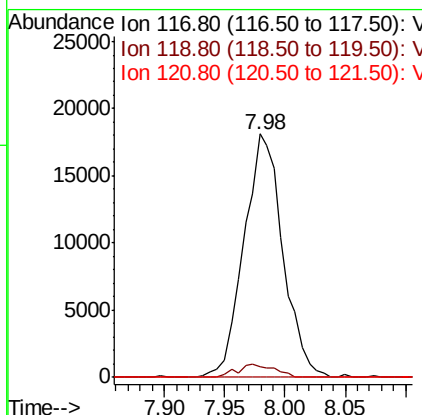
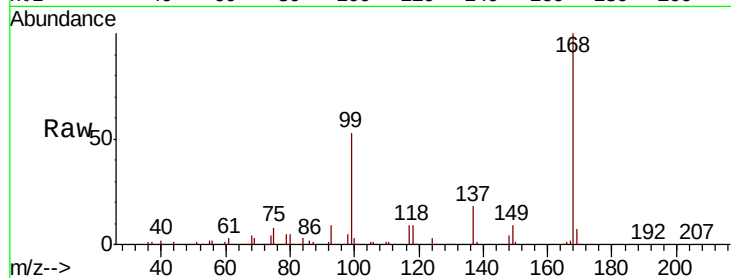




#38
Carbon Tetrachloride
Concen: 5.612 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD064572.D
Acq: 23 Dec 2019 17:00

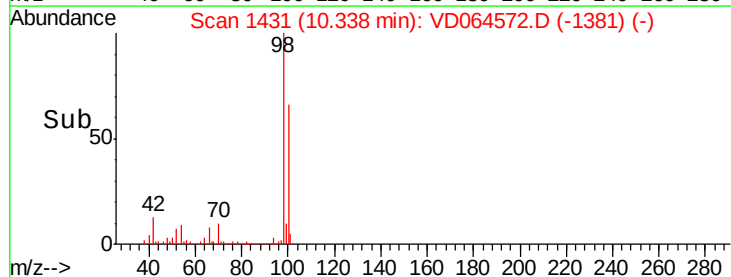
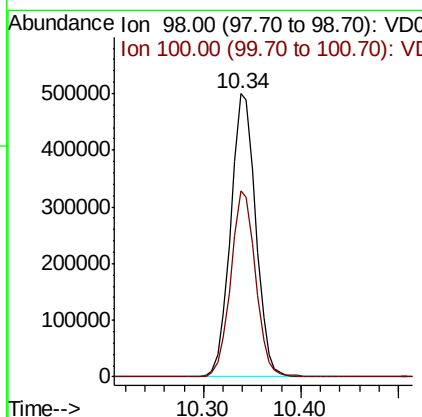
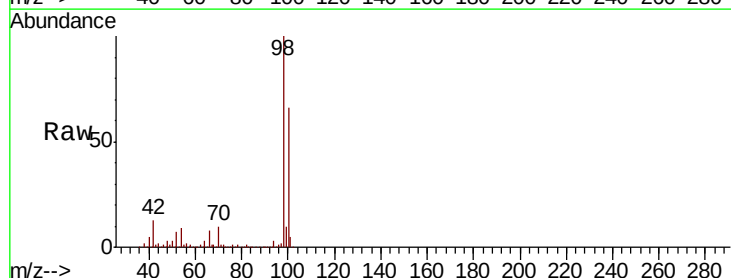
Instrument :
MSVOA_D
ClientSampleId :
SOIL-DUPLICATE

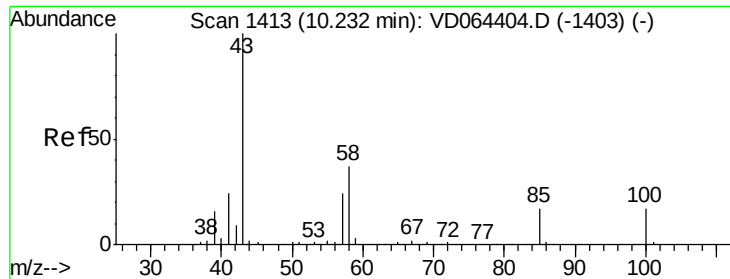
Tot Ion:117 Resp: 40694
Ion Ratio Lower Upper
117 100
119 4.6 78.8 118.2#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 51.840 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064572.D
Acq: 23 Dec 2019 17:00

Tgt Ion: 98 Resp: 893606
Ion Ratio Lower Upper
98 100
100 65.0 52.6 79.0

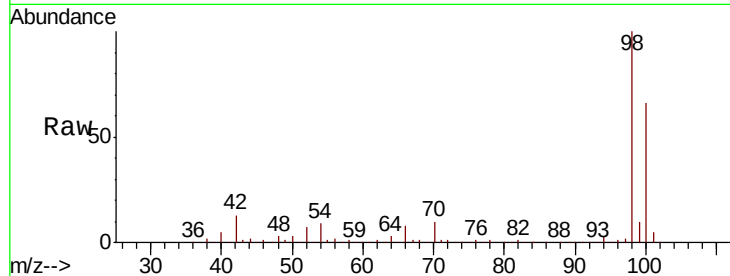




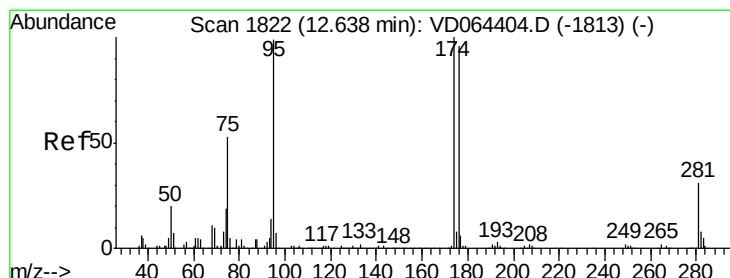
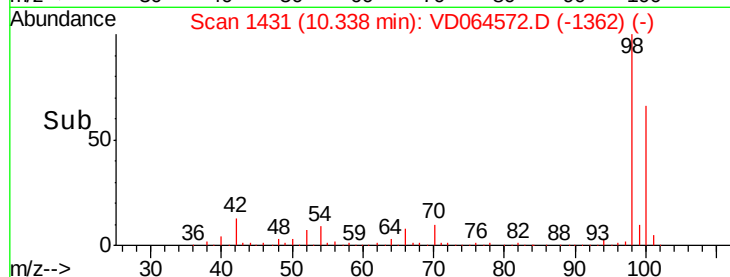
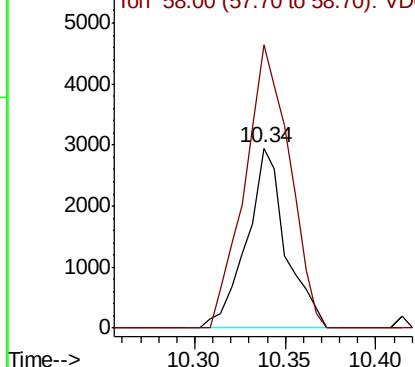
#51
4-Methyl-2-Pentanone
Concen: 1.568 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.11 min
Lab File: VD064572.D
Acq: 23 Dec 2019 17:00

Instrument :
MSVOA_D
ClientSampleId :
SOIL-DUPLICATE

Tot Ion: 43 Resp: 4448
Ion Ratio Lower Upper
43 100
58 179.1 30.6 46.0#

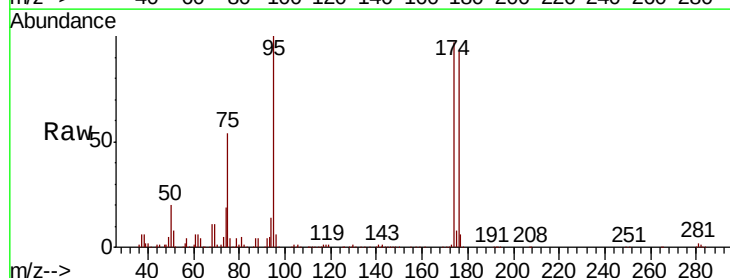


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

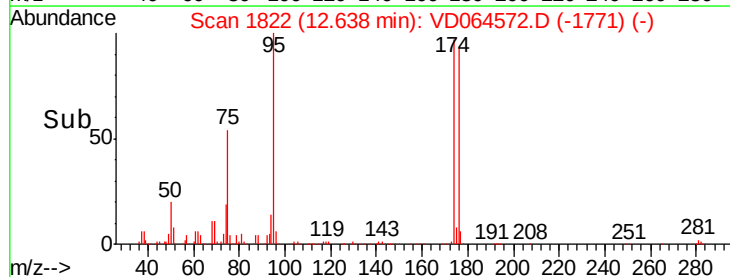
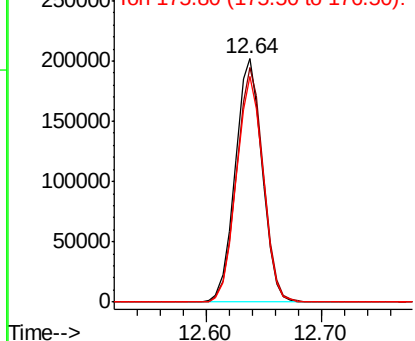


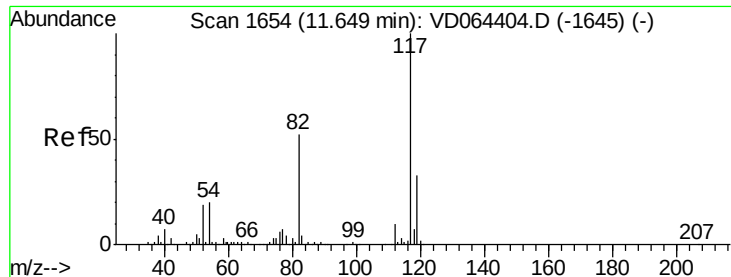
#62
4-Bromofluorobenzene
Concen: 58.751 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064572.D
Acq: 23 Dec 2019 17:00

Tgt Ion: 95 Resp: 325467
Ion Ratio Lower Upper
95 100
174 96.1 0.0 197.2
176 91.9 0.0 189.6



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

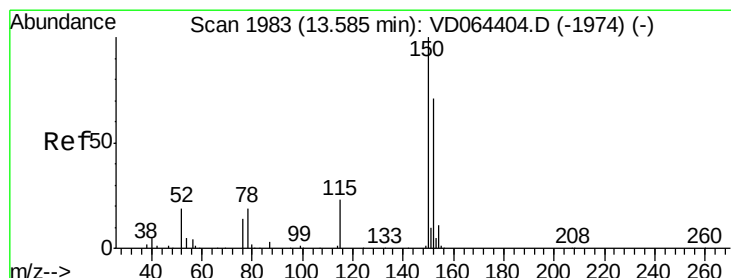
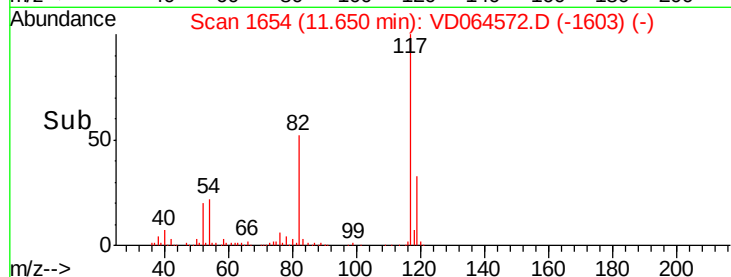
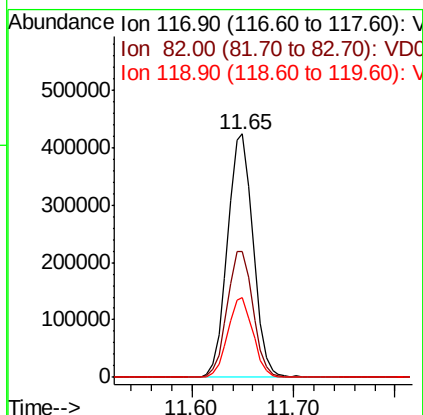
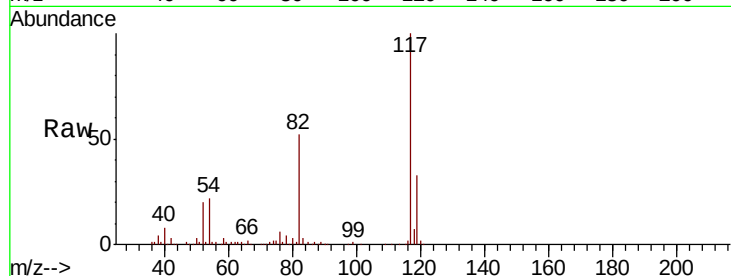




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064572.D
Acq: 23 Dec 2019 17:00

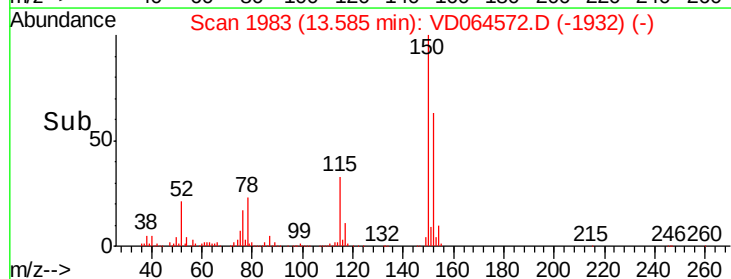
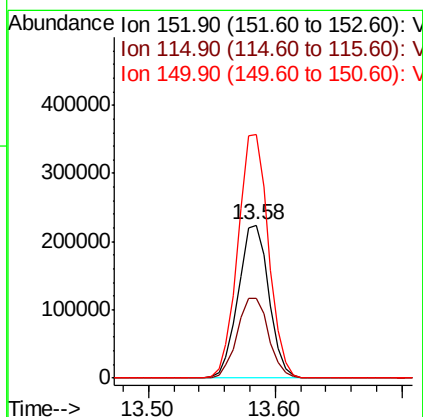
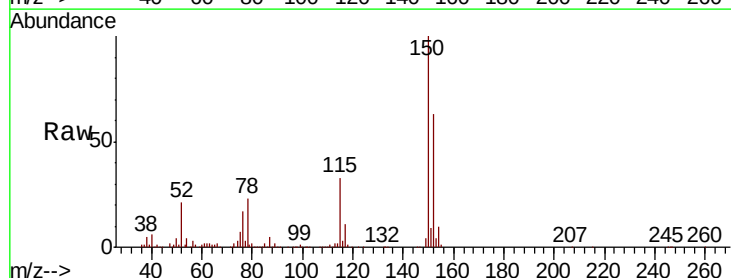
Instrument :
MSVOA_D
ClientSampleId :
SOIL-DUPLICATE

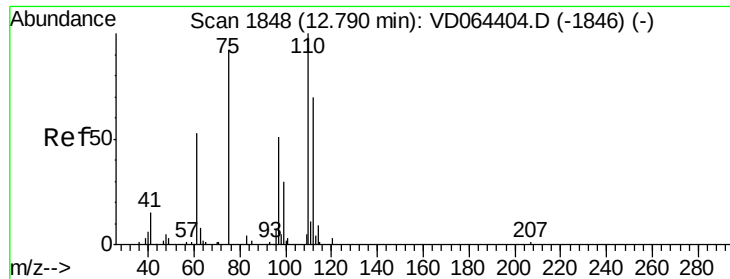
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.8	41.4	62.2
119	32.8	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064572.D
Acq: 23 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.5	26.7	80.1
150	157.7	0.0	347.2





#76

1,2,3-Trichloropropane

Concen: 56.735 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064572.D

Acq: 23 Dec 2019 17:00

Instrument :

MSVOA_D

ClientSampleId :

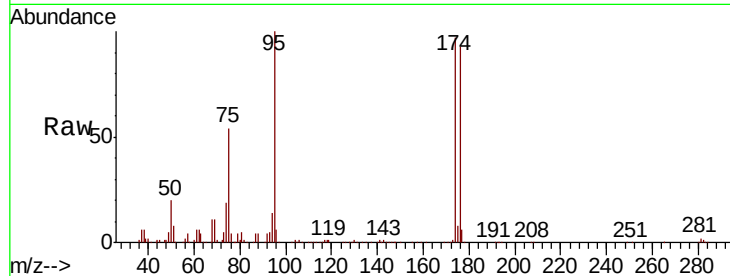
SOIL-DUPLICATE

Tot Ion: 75 Resp: 176176

Ion Ratio Lower Upper

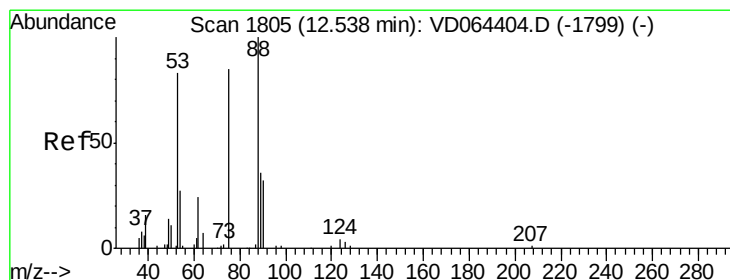
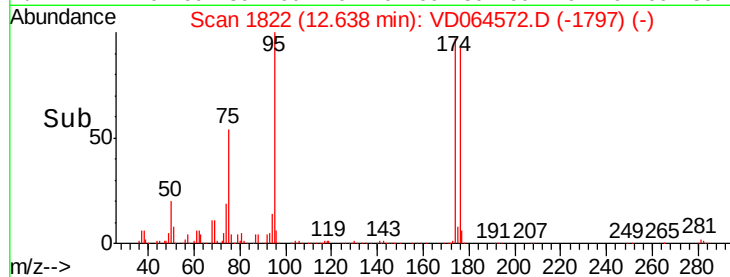
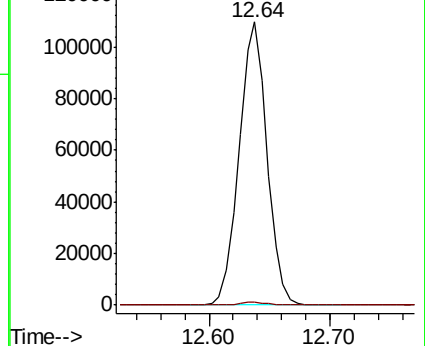
75 100

77 1.1 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: 123.713 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064572.D

Acq: 23 Dec 2019 17:00

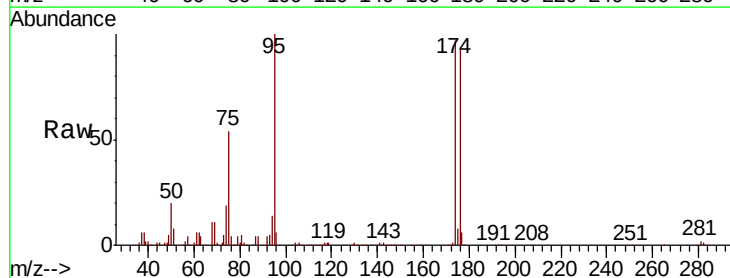
Tgt Ion: 75 Resp: 176176

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

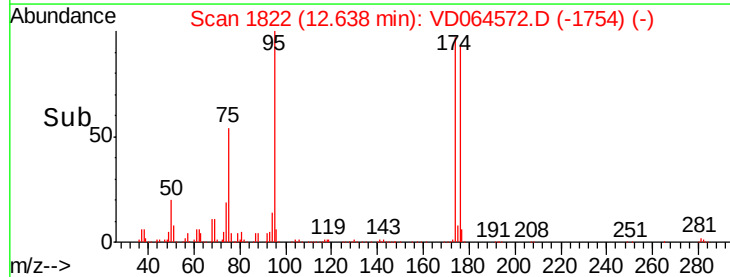
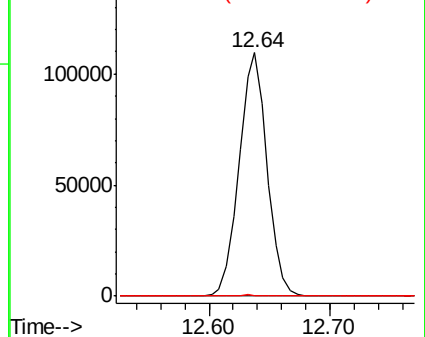
89 0.1 38.5 57.7#

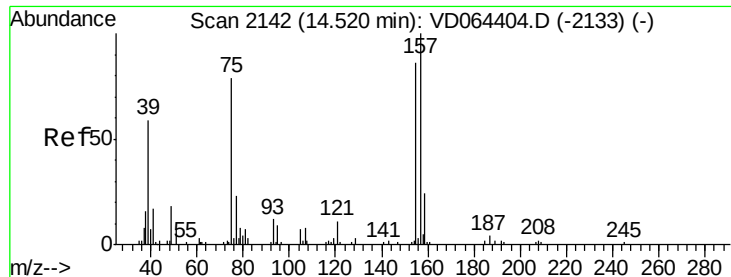


Abundance Ion 74.90 (74.60 to 75.60): VDC

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: 14.56 min Scan# 2149

Delta R.T. 0.04 min

Lab File: VD064572.D

Acq: 23 Dec 2019 17:00

Instrument :

MSVOA_D

ClientSampleId :

SOIL-DUPLICATE

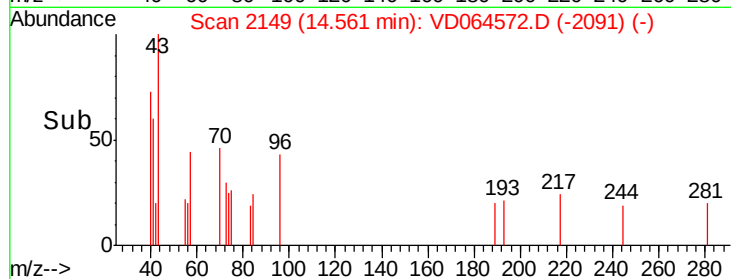
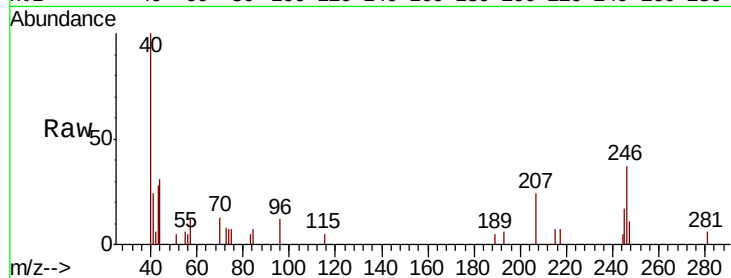
Tot Ion: 75 Resp: 205

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

157 0.0 63.2 189.8#



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

