

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080619\
 Data File : VD063406.D
 Acq On : 6 Aug 2019 18:33
 Operator : JC/SY
 Sample : K4165-01RE
 Misc : 5.10g/5ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CP-MW3-S-8-12-SOILRE

Quant Time: Aug 07 06:43:38 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	131251	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	187837	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	142731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	50597	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.45	65	119351	81.95	ug/l	0.01
Spiked Amount	50.000		Recovery	=	163.90%	
35) Dibromofluoromethane	6.93	113	98561	61.46	ug/l	0.02
Spiked Amount	50.000		Recovery	=	122.92%	
50) Toluene-d8	10.42	98	147058	40.97	ug/l	0.01
Spiked Amount	50.000		Recovery	=	81.94%	
62) 4-Bromofluorobenzene	13.56	95	59525	36.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.78%	

Target Compounds

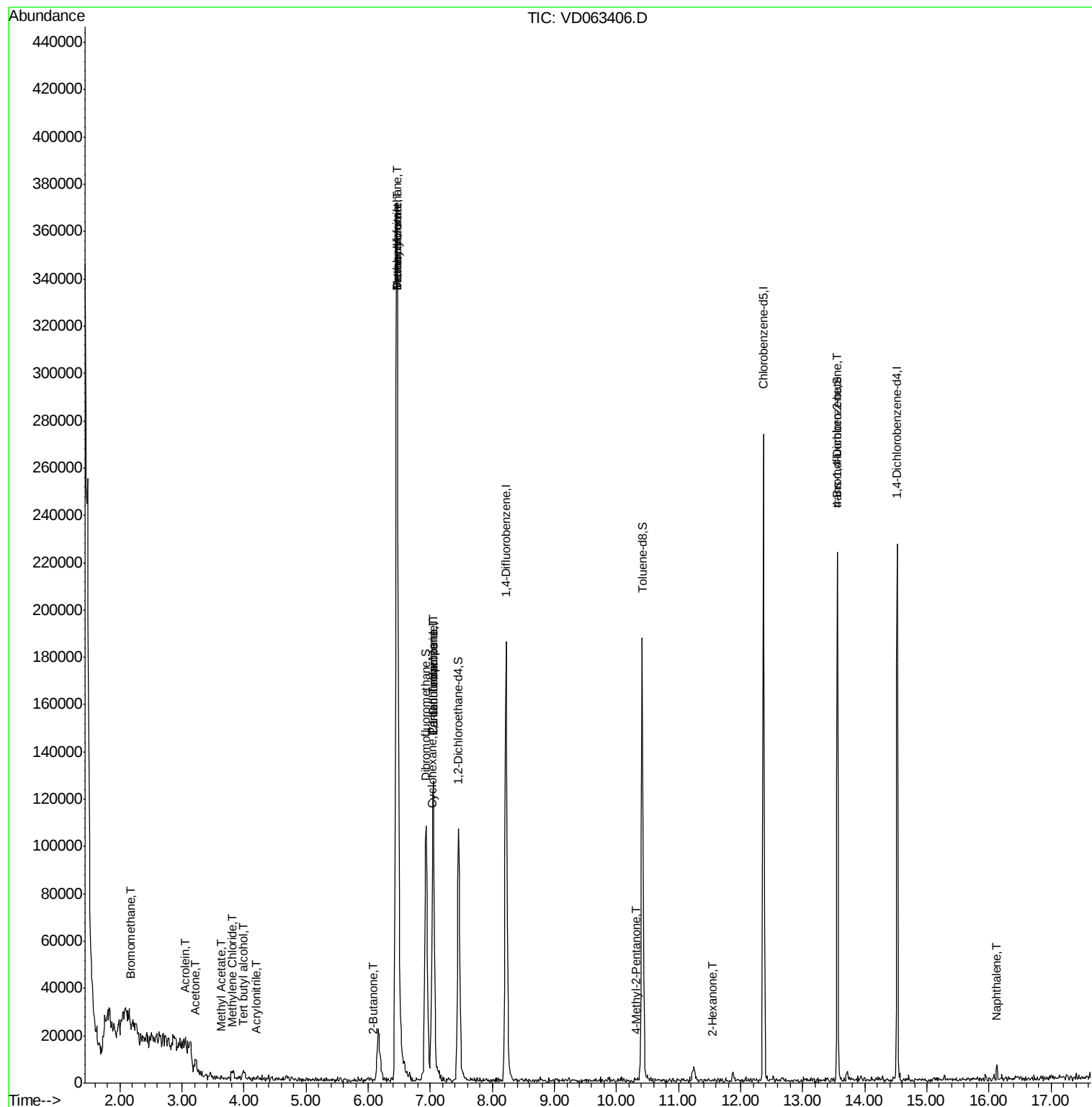
						Qvalue
5) Bromomethane	2.18	94	959	1.474	ug/l #	31
11) Tert butyl alcohol	3.99	59	3665	57.345	ug/l #	69
13) Acrolein	3.04	56	255	4.146	ug/l #	11
15) Acrylonitrile	4.19	53	216	1.304	ug/l #	14
16) Acetone	3.21	43	13533	47.693	ug/l	94
18) Methyl Acetate	3.63	43	811	1.488	ug/l #	60
20) Methylene Chloride	3.81	84	1797	1.567	ug/l #	67
25) 2-Butanone	6.09	43	464	1.629	ug/l #	56
28) Bromochloromethane	6.46	49	1386	1.681	ug/l #	2
29) Tetrahydrofuran	6.46	42	301179	2233.850	ug/l	98
31) Cyclohexane	7.02	56	3408	2.627	ug/l #	39
36) 1,1-Dichloropropene	7.05	75	10575	6.169	ug/l #	53
38) Carbon Tetrachloride	7.05	117	12512	4.848	ug/l #	11
41) Methacrylonitrile	6.46	41	226240	245.581	ug/l #	91
51) 4-Methyl-2-Pentanone	10.31	43	925	1.383	ug/l #	42
59) 2-Hexanone	11.53	43	728	1.510	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.56	75	24477	145.044	ug/l #	3
95) Naphthalene	16.13	128	3990	2.549	ug/l #	88

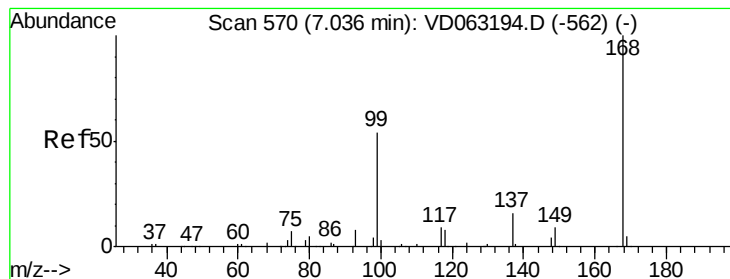
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD063406.D

Acq: 6 Aug 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

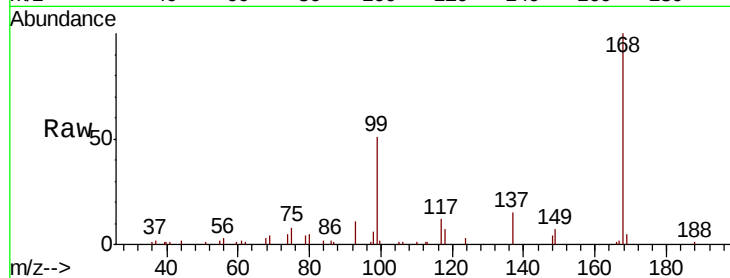
CP-MW3-S-8-12-SOILRE

Tgt Ion:168 Resp: 131251

Ion Ratio Lower Upper

168 100

99 51.2 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

50000

40000

30000

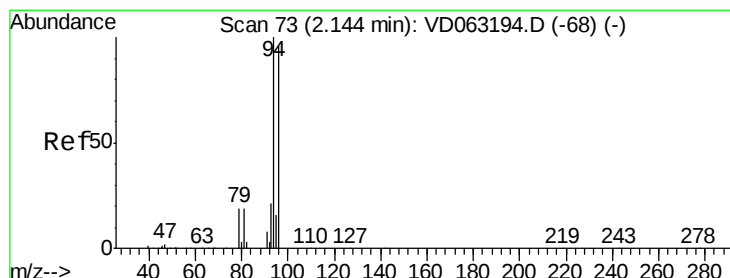
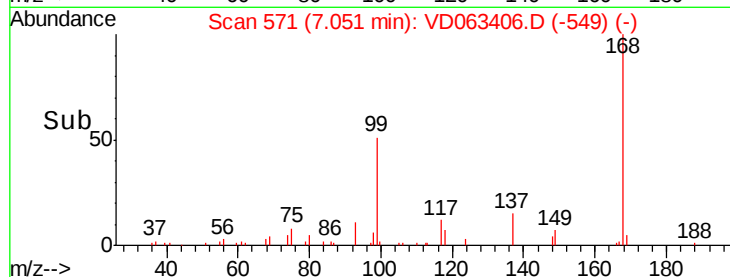
20000

10000

0

6.90 7.00 7.10 7.20

Time-->



#5

Bromomethane

Concen: 1.474 ug/l

RT: 2.18 min Scan# 76

Delta R.T. 0.03 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

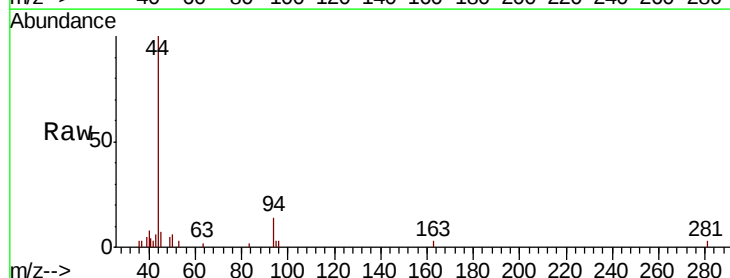
Tgt Ion: 94 Resp: 959

Ion Ratio Lower Upper

94 100

96 23.2 76.4 114.6#

93 0.0 17.3 25.9#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2000

1500

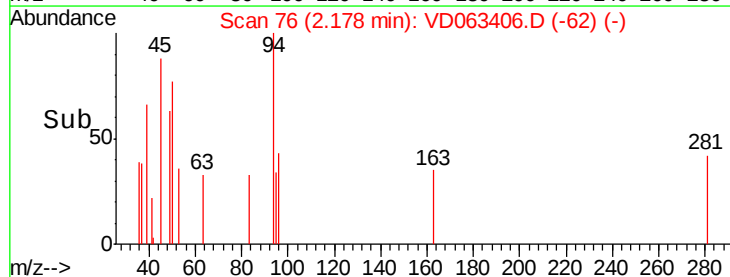
1000

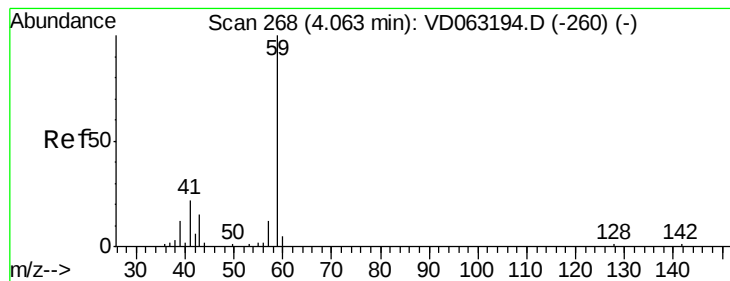
500

0

2.16 2.18

Time-->





#11

Tert butyl alcohol

Concen: 57.345 ug/l

RT: 3.99 min Scan# 260

Delta R.T. -0.07 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

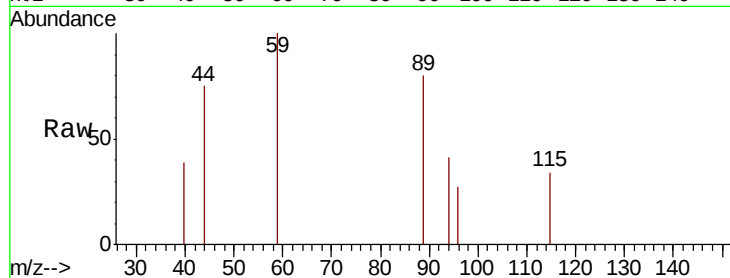
CP-MW3-S-8-12-SOILRE

Tgt Ion: 59 Resp: 3665

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

3.99

1500

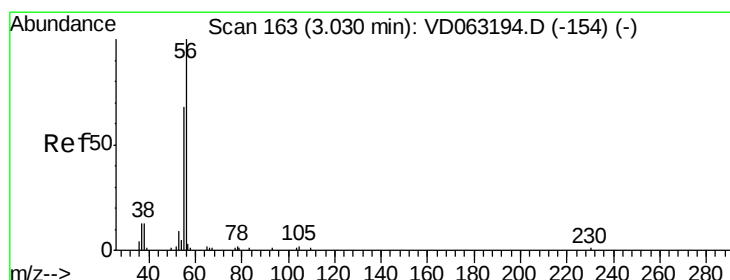
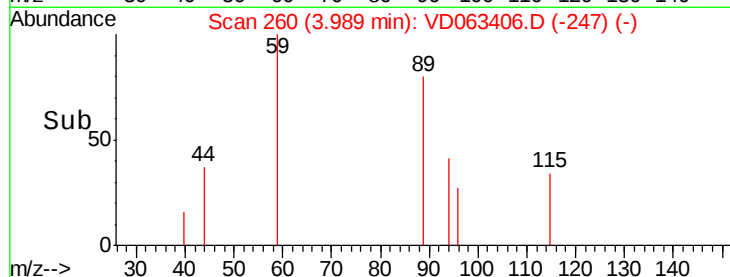
1000

500

0

Time-->

3.90 3.95 4.00 4.05



#13

Acrolein

Concen: 4.146 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD063406.D

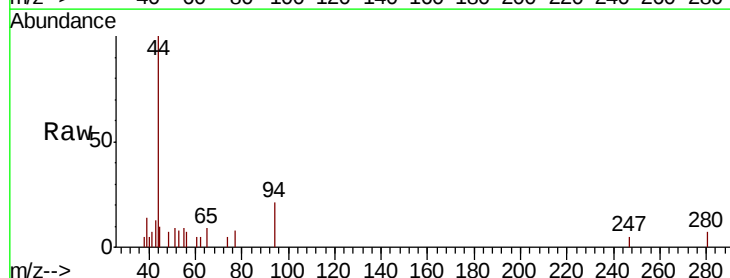
Acq: 6 Aug 2019 18:33

Tgt Ion: 56 Resp: 255

Ion Ratio Lower Upper

56 100

55 141.5 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

800

600

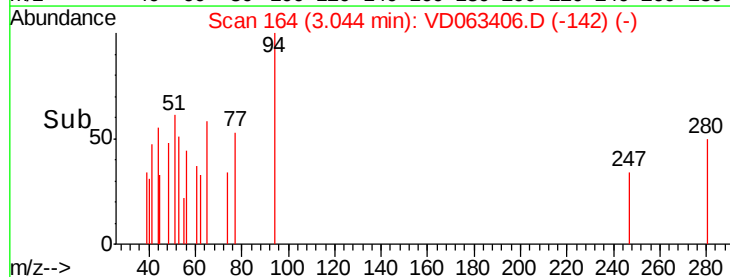
400

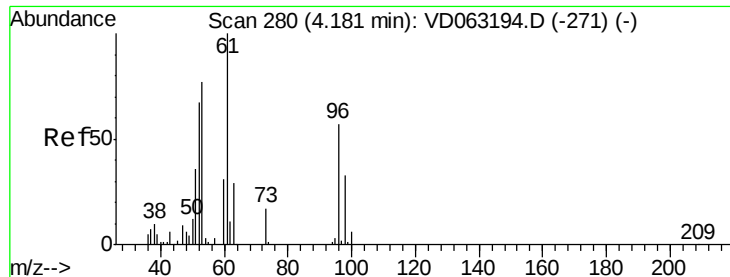
200

0

Time-->

3.03 3.04 3.05 3.06





#15

Acrylonitrile

Concen: 1.304 ug/l

RT: 4.19 min Scan# 280

Delta R.T. 0.00 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

CP-MW3-S-8-12-SOILRE

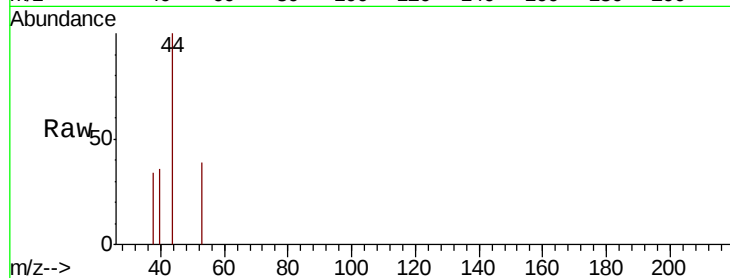
Tgt Ion: 53 Resp: 216

Ion Ratio Lower Upper

53 100

52 0.0 69.7 104.5#

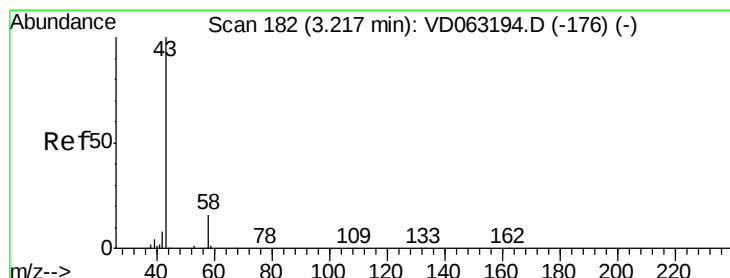
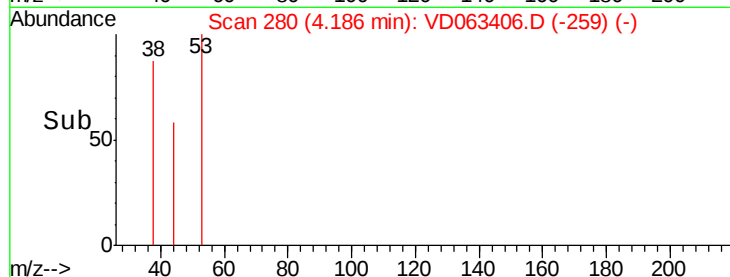
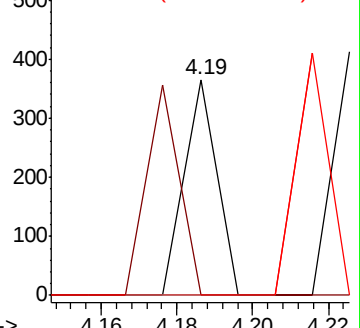
51 0.0 37.4 56.0#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 47.693 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.00 min

Lab File: VD063406.D

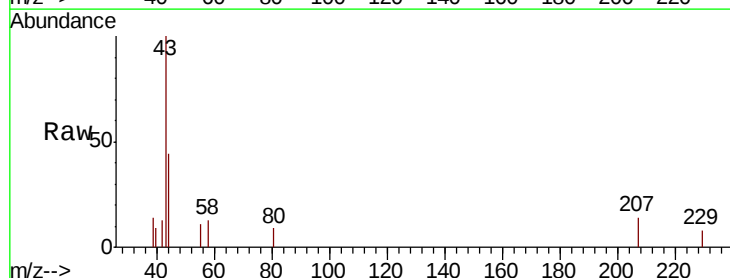
Acq: 6 Aug 2019 18:33

Tgt Ion: 43 Resp: 13533

Ion Ratio Lower Upper

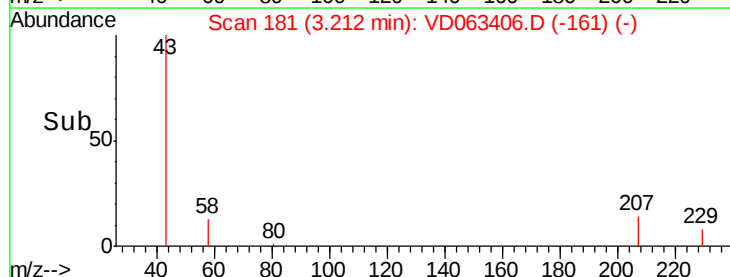
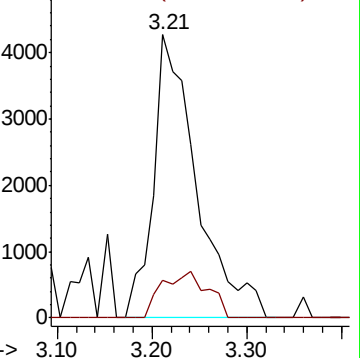
43 100

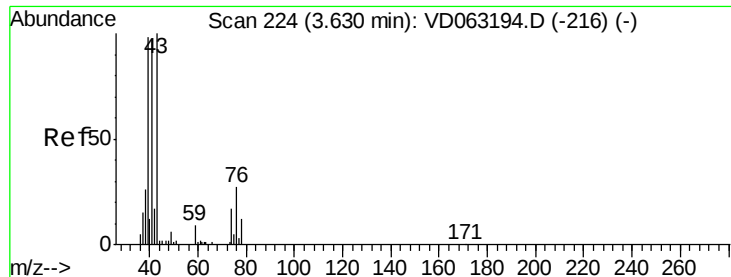
58 13.5 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

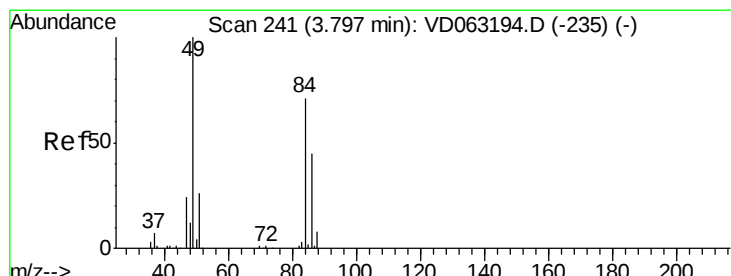
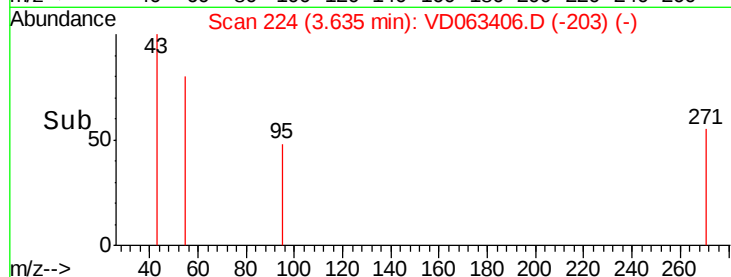
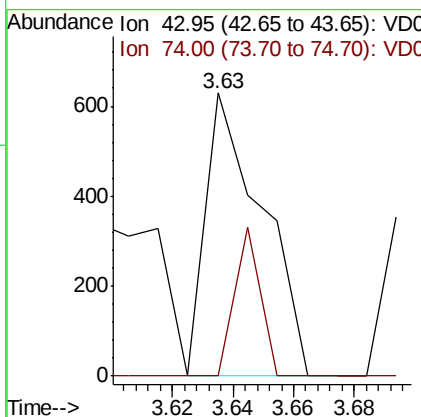
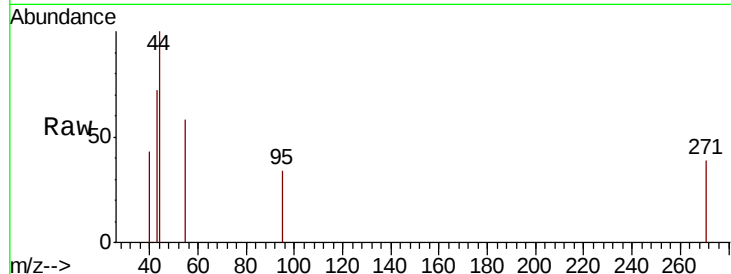




#18
Methyl Acetate
Concen: 1.488 ug/l
RT: 3.63 min Scan# 224
Delta R.T. 0.00 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

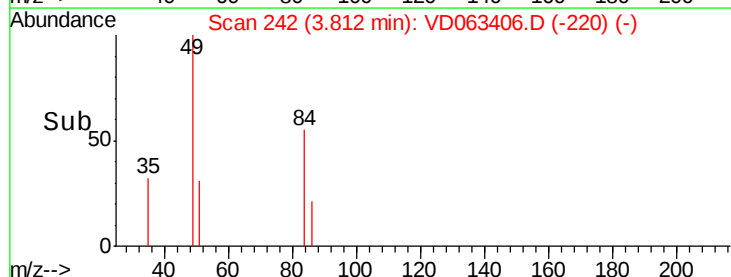
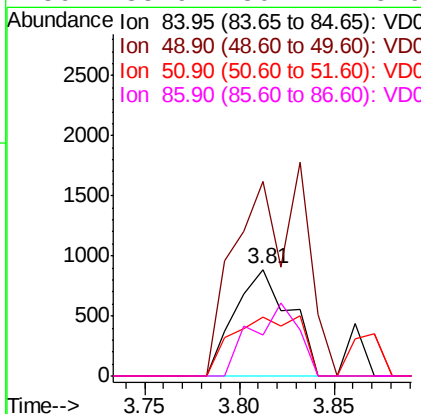
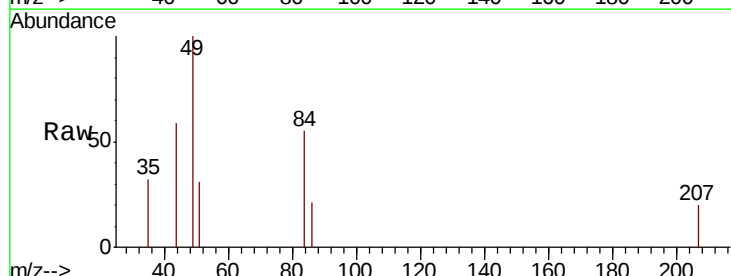
Instrument :
MSVOA_D
ClientSampleId :
CP-MW3-S-8-12-SOILRE

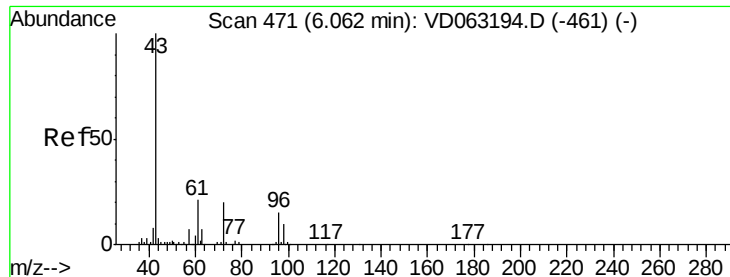
Tgt Ion: 43 Resp: 811
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#



#20
Methylene Chloride
Concen: 1.567 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

Tgt Ion: 84 Resp: 1797
Ion Ratio Lower Upper
84 100
49 182.5 112.5 168.7#
51 55.9 29.6 44.4#
86 38.6 50.4 75.6#





#25

2-Butanone

Concen: 1.629 ug/l

RT: 6.09 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

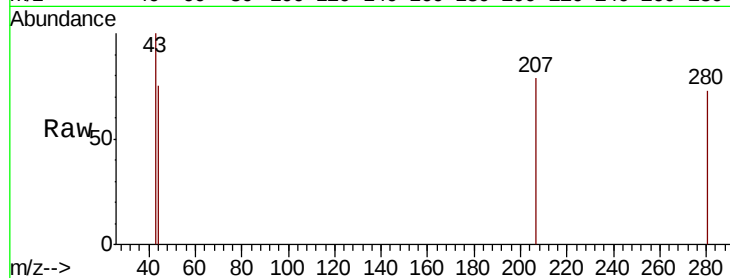
CP-MW3-S-8-12-SOILRE

Tgt Ion: 43 Resp: 464

Ion Ratio Lower Upper

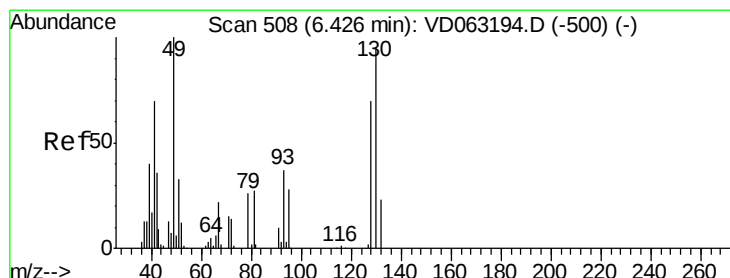
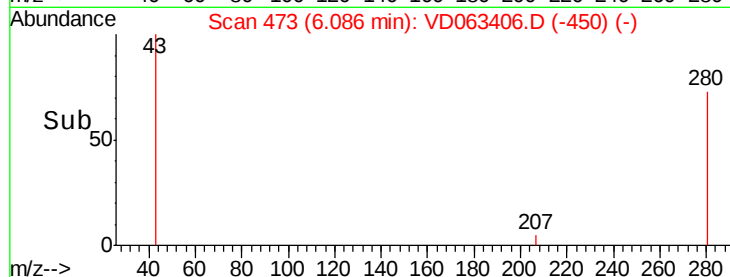
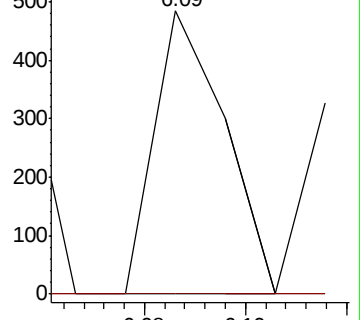
43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 1.681 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.03 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

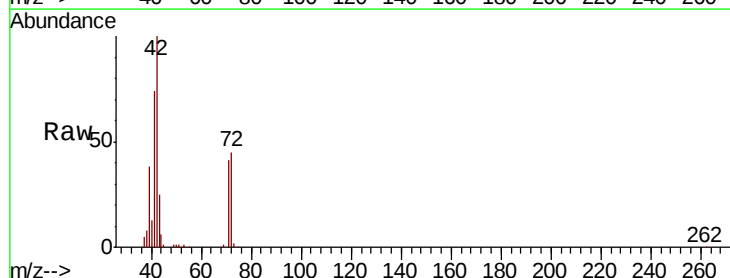
Tgt Ion: 49 Resp: 1386

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

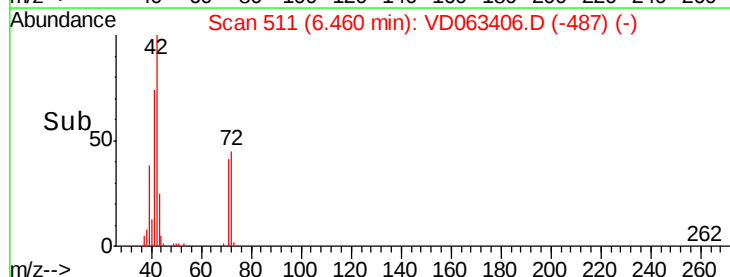
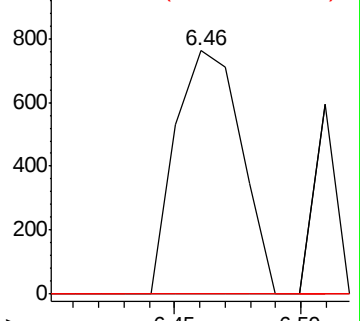
130 0.0 75.7 113.5#

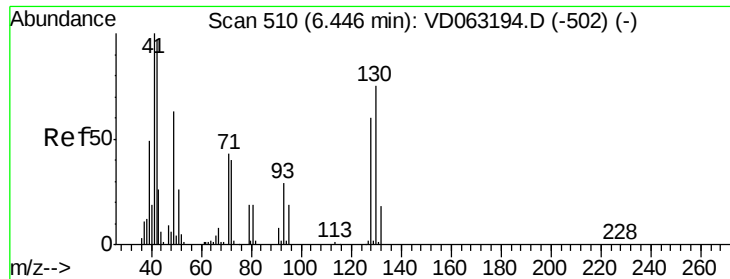


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 2233.850 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

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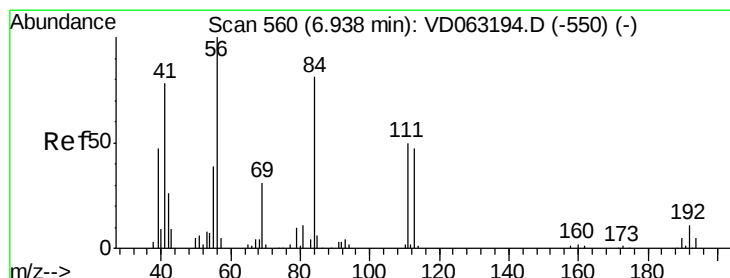
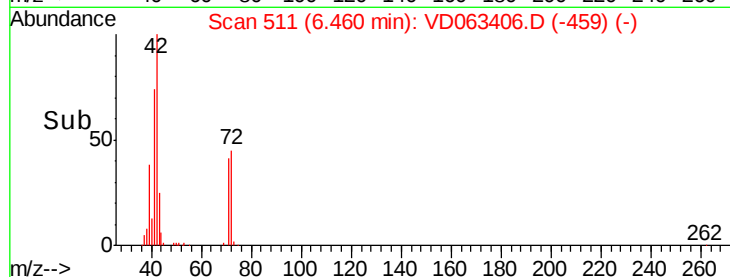
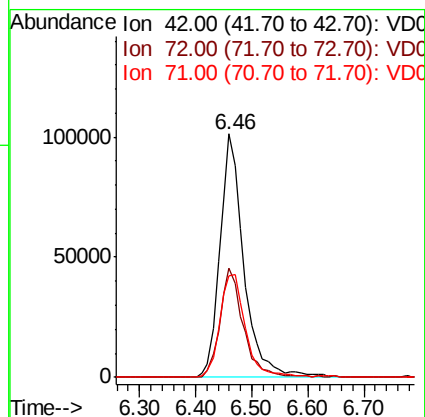
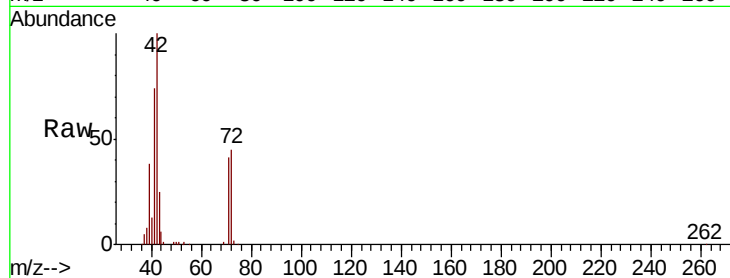
Tgt Ion: 42 Resp: 301179

Ion Ratio Lower Upper

42 100

72 43.6 33.4 50.2

71 45.5 35.7 53.5



#31

Cyclohexane

Concen: 2.627 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.08 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

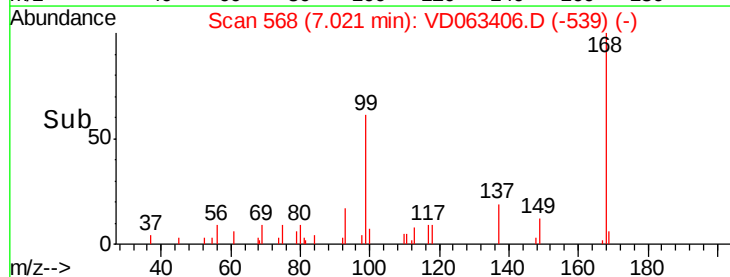
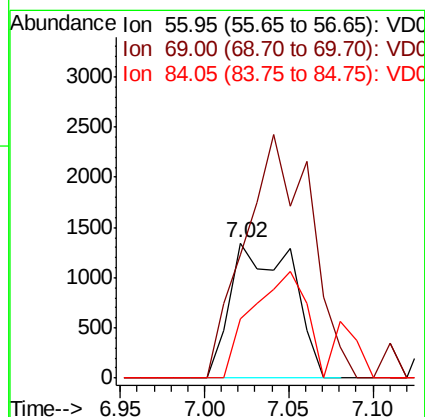
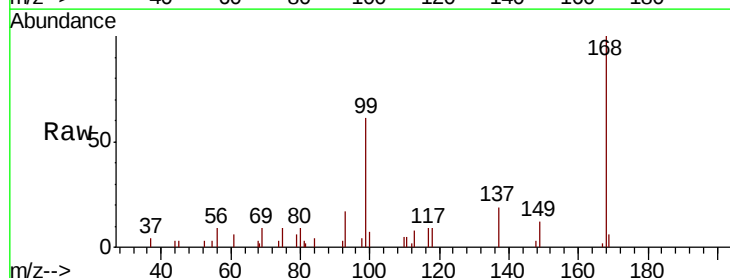
Tgt Ion: 56 Resp: 3408

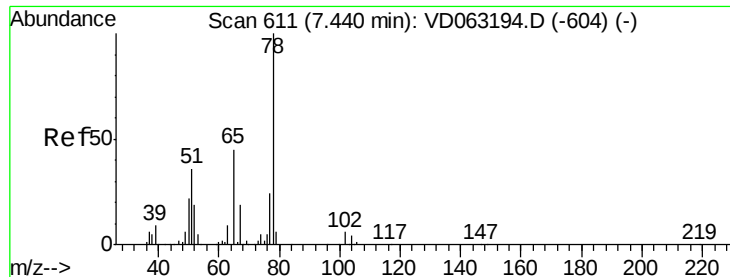
Ion Ratio Lower Upper

56 100

69 91.4 24.5 36.7#

84 43.8 64.9 97.3#





#33

1,2-Dichloroethane-d4

Concen: 81.952 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

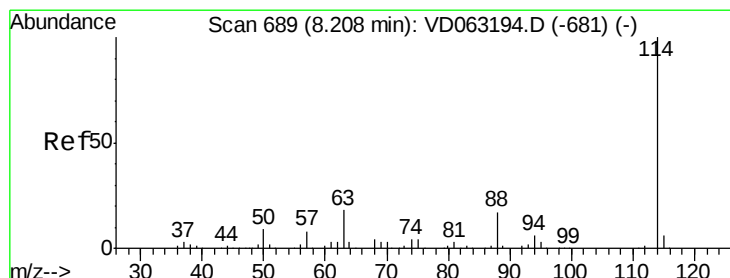
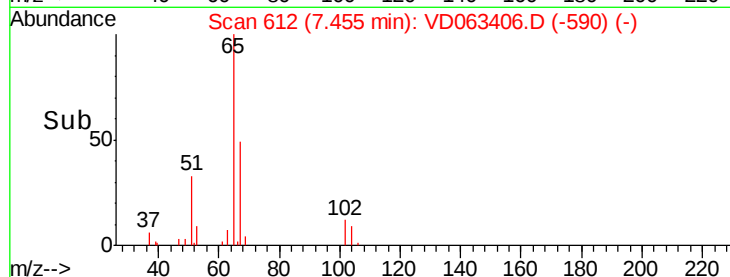
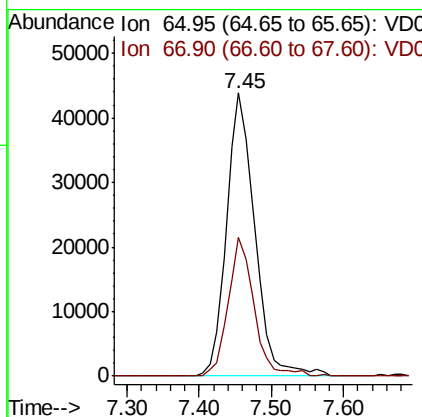
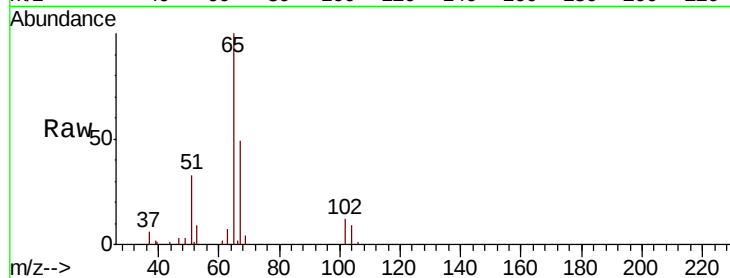
CP-MW3-S-8-12-SOILRE

Tgt Ion: 65 Resp: 119351

Ion Ratio Lower Upper

65 100

67 49.2 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: VD063406.D

Acq: 6 Aug 2019 18:33

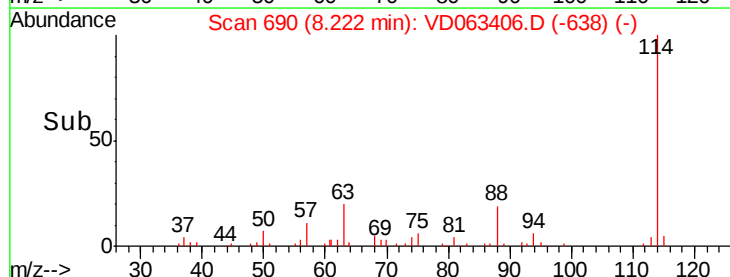
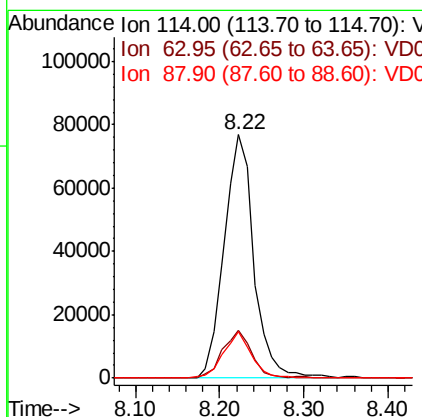
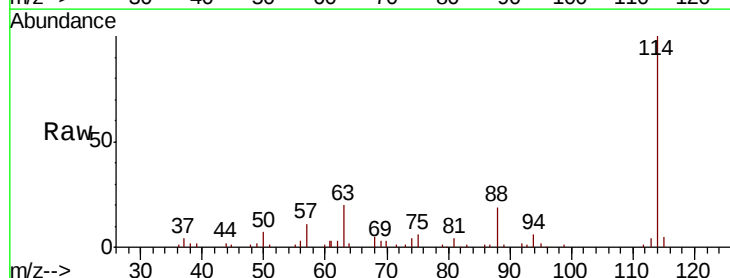
Tgt Ion: 114 Resp: 187837

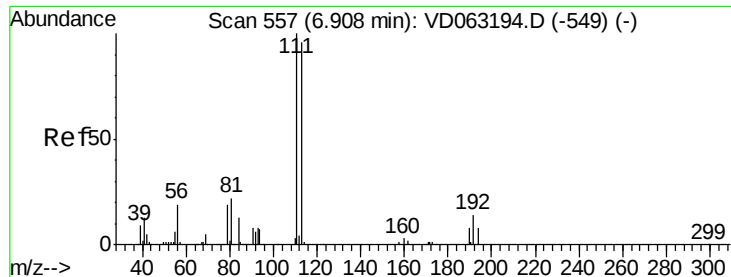
Ion Ratio Lower Upper

114 100

63 19.6 0.0 35.2

88 18.9 0.0 34.6

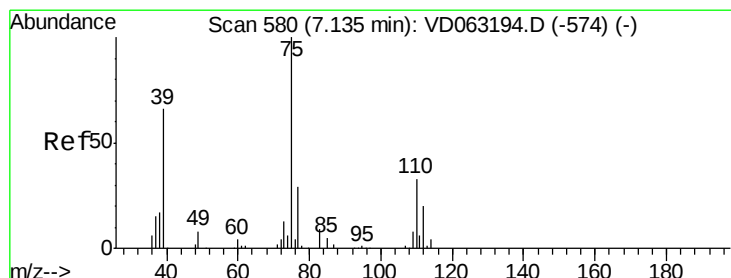
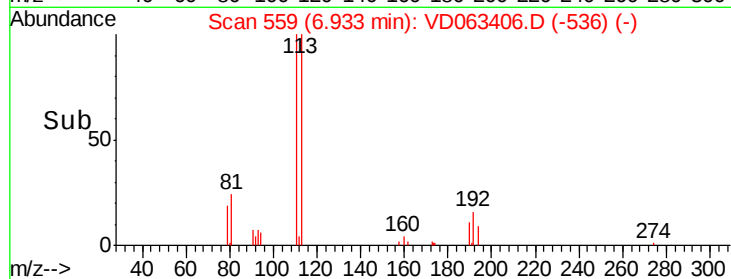
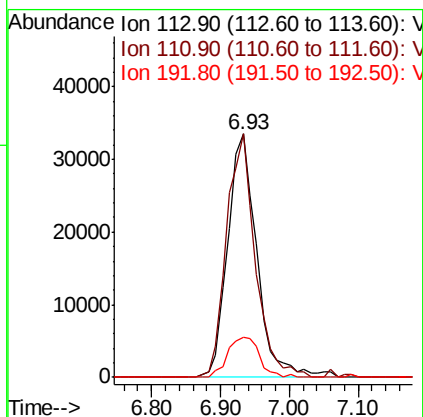
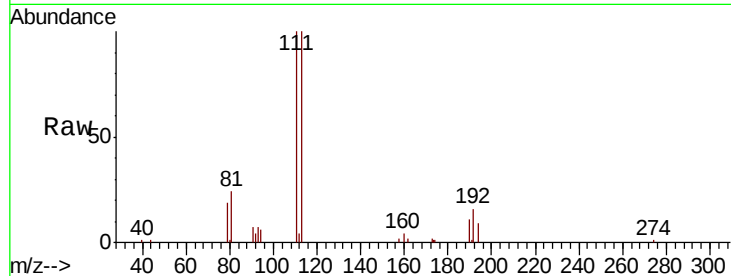




#35
 Dibromofluoromethane
 Concen: 61.457 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063406.D
 Acq: 6 Aug 2019 18:33

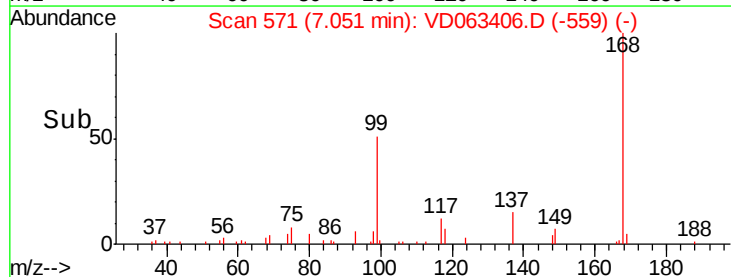
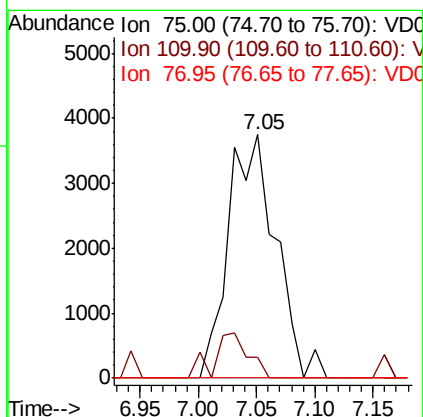
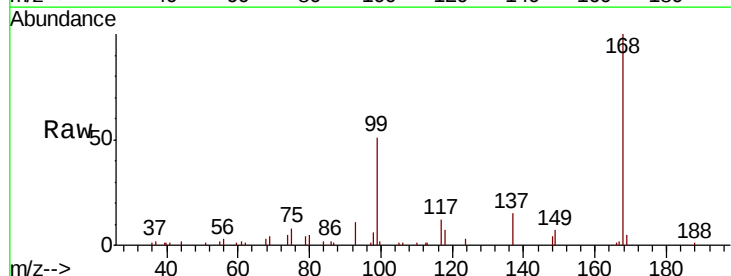
Instrument :
 MSVOA_D
 ClientSampleId :
 CP-MW3-S-8-12-SOILRE

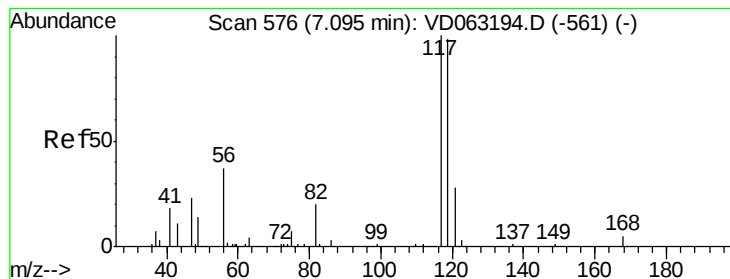
Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.8	83.2	124.8
192	16.3	11.8	17.8



#36
 1,1-Dichloropropene
 Concen: 6.169 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.08 min
 Lab File: VD063406.D
 Acq: 6 Aug 2019 18:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.1	48.2#
77	0.0	22.7	34.1#





#38

Carbon Tetrachloride

Concen: 4.848 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

CP-MW3-S-8-12-SOILRE

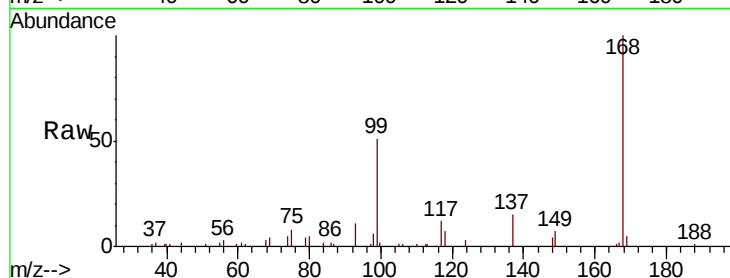
Tgt Ion:117 Resp: 12512

Ion Ratio Lower Upper

117 100

119 0.0 78.2 117.2#

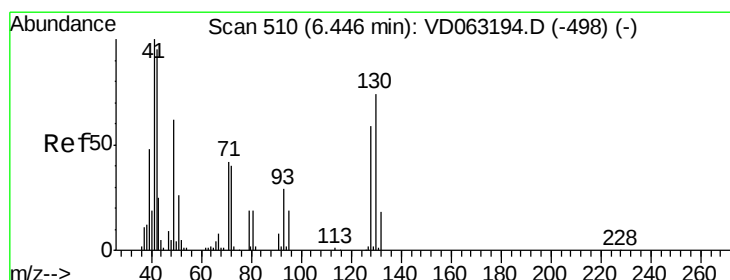
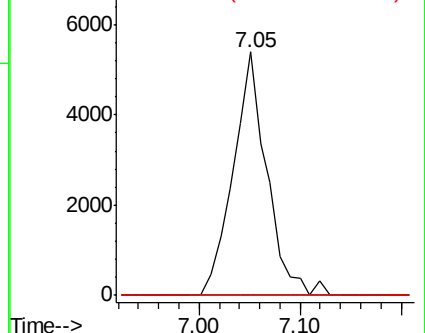
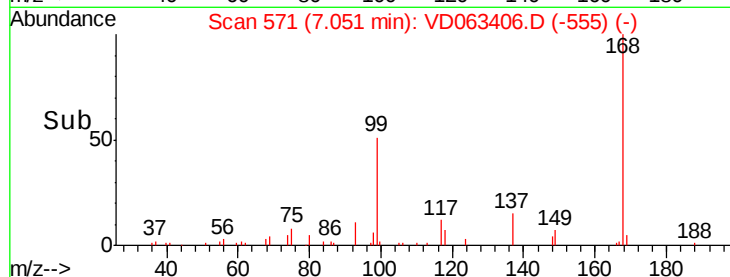
121 0.0 22.1 33.1#



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: 245.581 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063406.D

Acq: 6 Aug 2019 18:33

Tgt Ion: 41 Resp: 226240

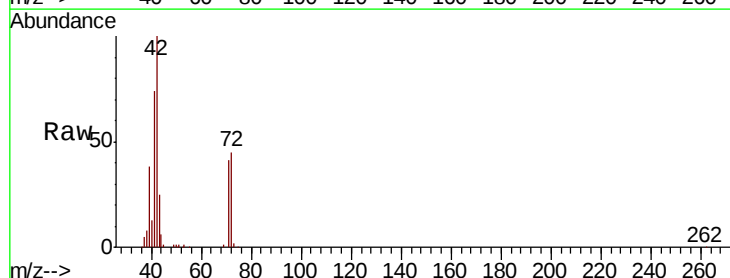
Ion Ratio Lower Upper

41 100

39 51.9 38.4 57.6

67 0.0 6.7 10.1#

52 0.6 4.3 6.5#

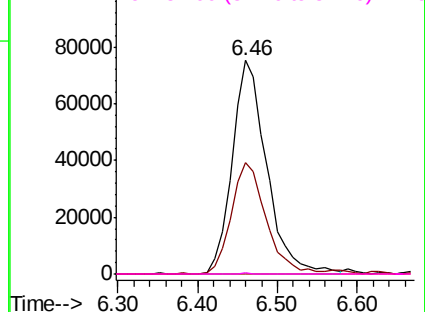
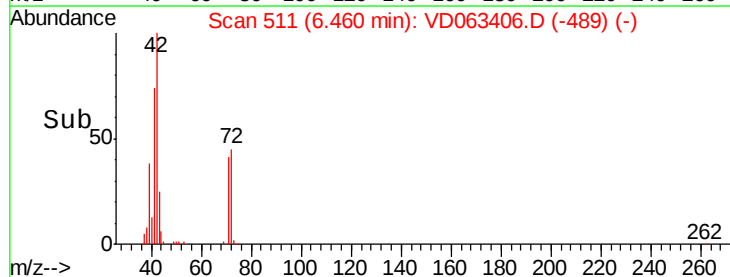


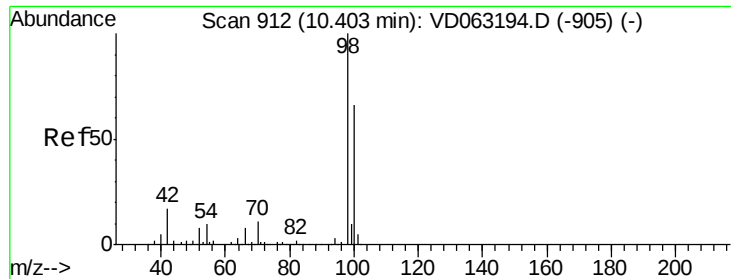
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

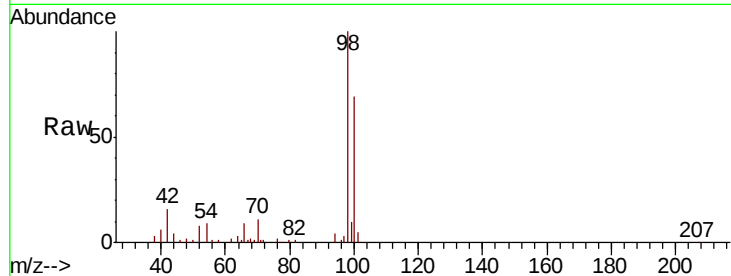




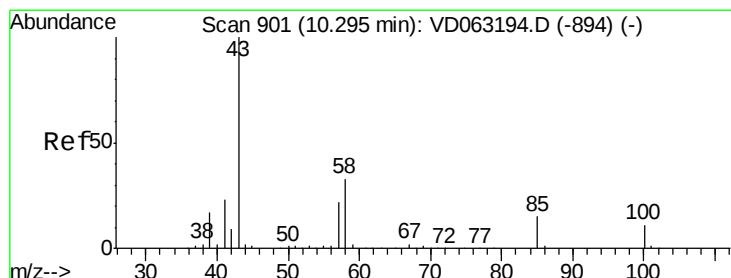
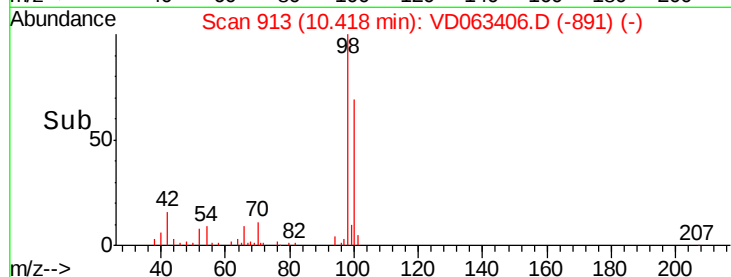
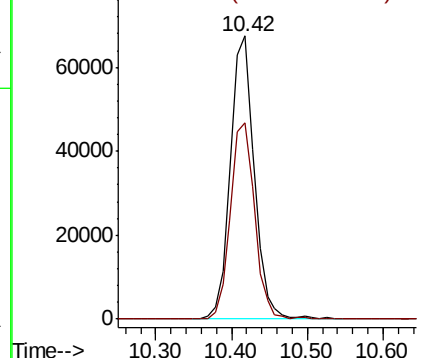
#50
Toluene-d8
Concen: 40.973 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

Instrument :
MSVOA_D
ClientSampleId :
CP-MW3-S-8-12-SOILRE

Tgt Ion: 98 Resp: 147058
Ion Ratio Lower Upper
98 100
100 69.3 53.2 79.8

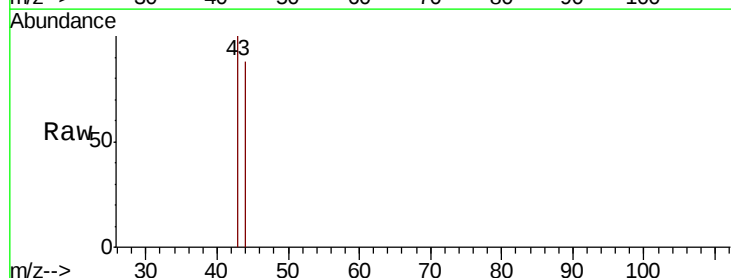


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

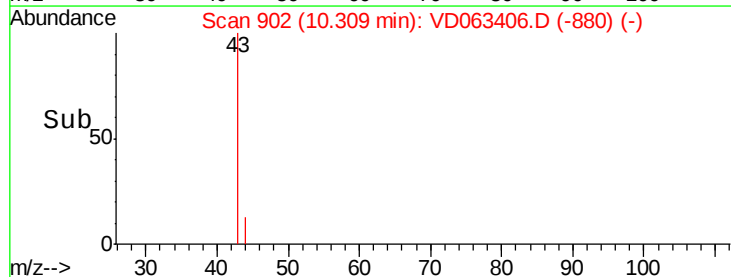
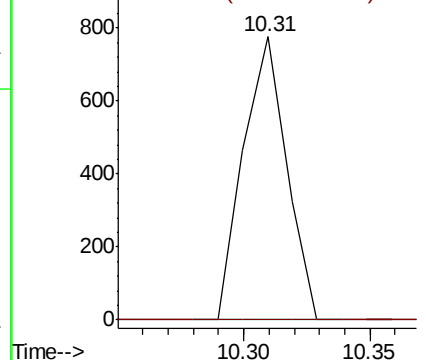


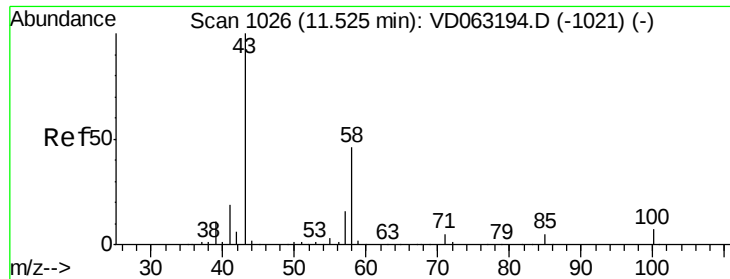
#51
4-Methyl-2-Pentanone
Concen: 1.383 ug/l
RT: 10.31 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

Tgt Ion: 43 Resp: 925
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

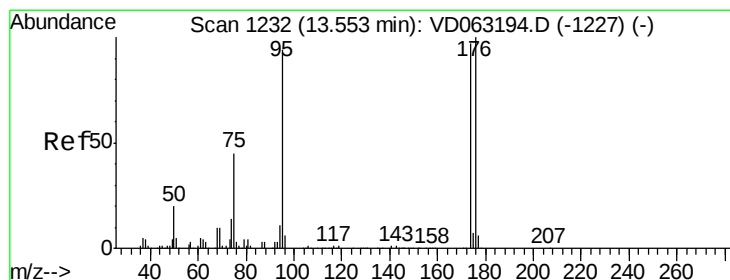
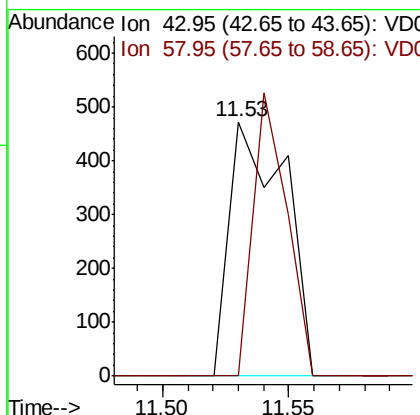
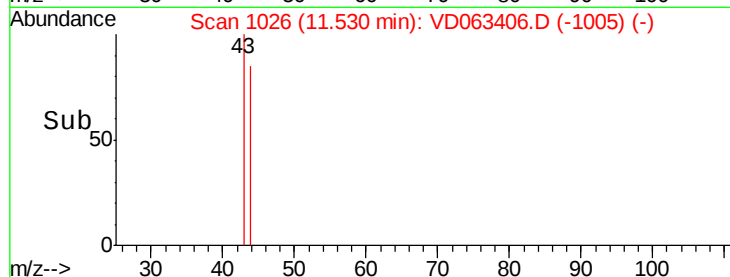
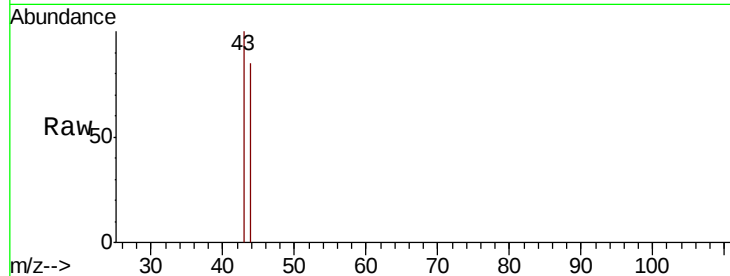




#59
2-Hexanone
Concen: 1.510 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

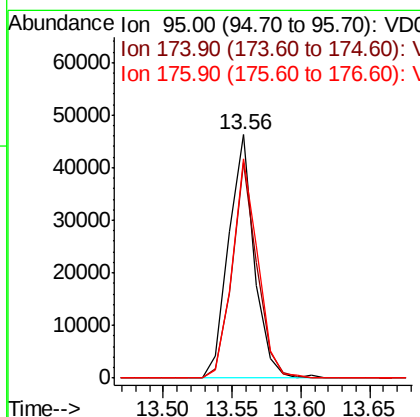
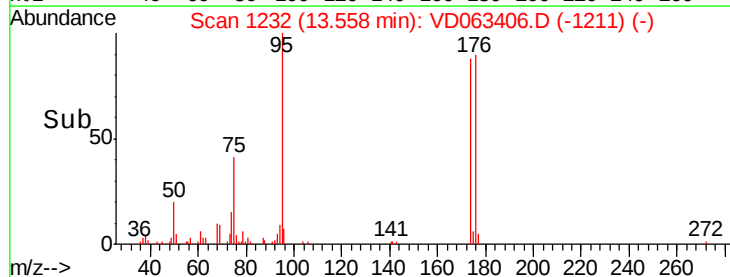
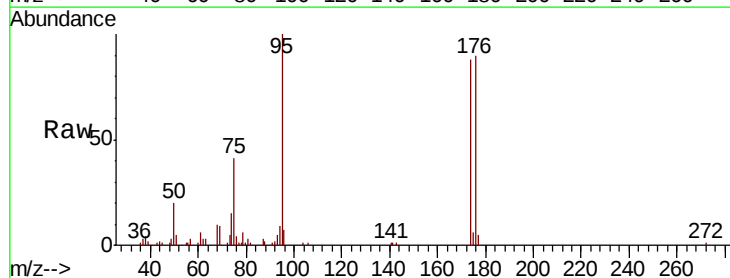
Instrument :
MSVOA_D
ClientSampleId :
CP-MW3-S-8-12-SOILRE

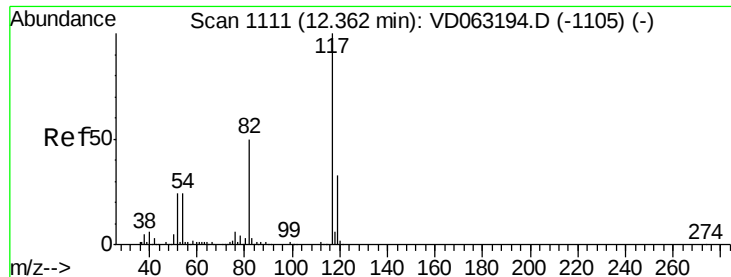
Tgt Ion: 43 Resp: 728
Ion Ratio Lower Upper
43 100
58 0.0 22.9 68.5#



#62
4-Bromofluorobenzene
Concen: 36.394 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

Tgt Ion: 95 Resp: 59525
Ion Ratio Lower Upper
95 100
174 88.4 0.0 205.4
176 90.0 0.0 211.8

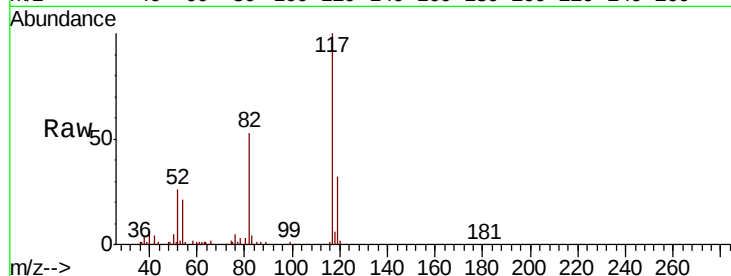




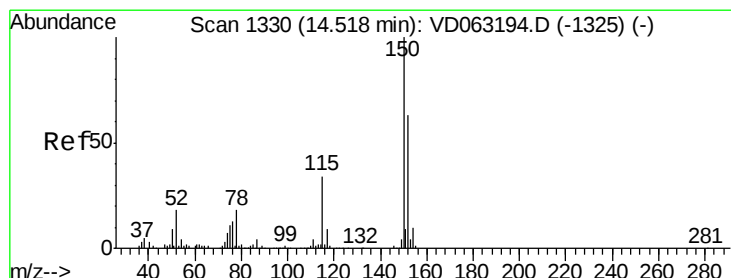
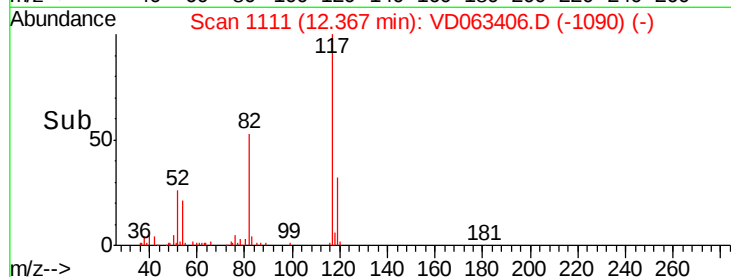
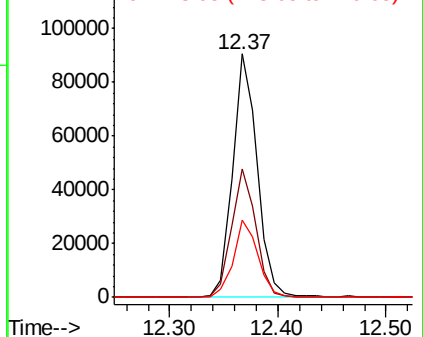
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

Instrument :
MSVOA_D
ClientSampleId :
CP-MW3-S-8-12-SOILRE

Tgt Ion:117 Resp: 142731
Ion Ratio Lower Upper
117 100
82 52.5 40.1 60.1
119 31.7 26.5 39.7

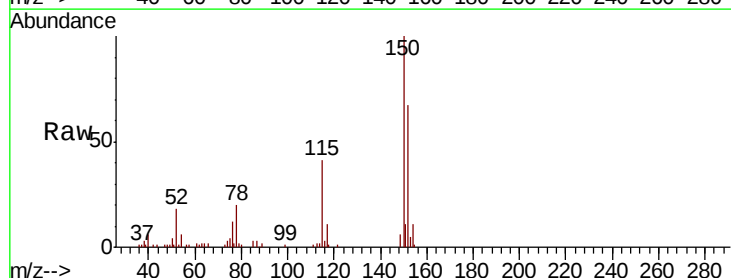


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

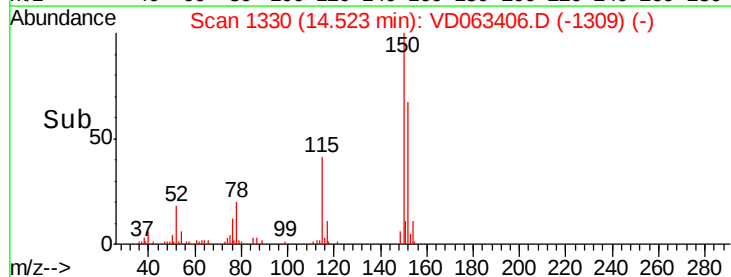
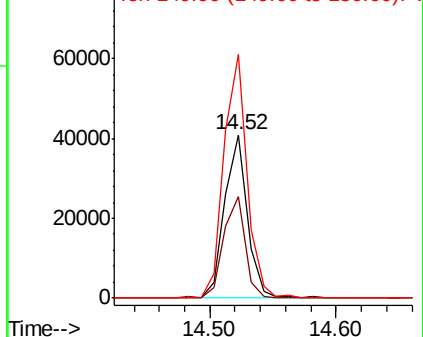


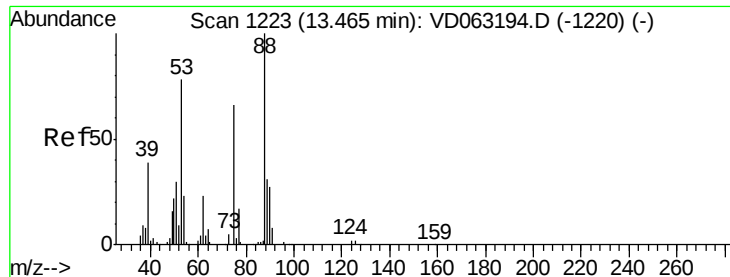
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

Tgt Ion:152 Resp: 50597
Ion Ratio Lower Upper
152 100
115 61.9 27.5 82.4
150 149.2 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

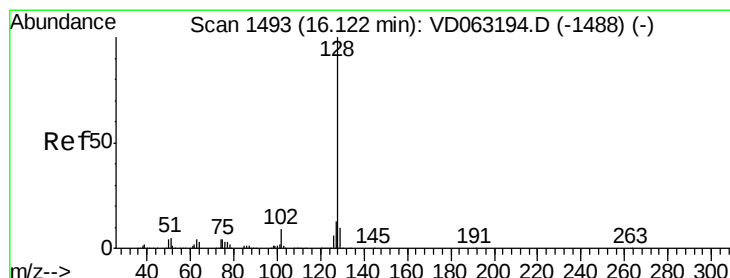
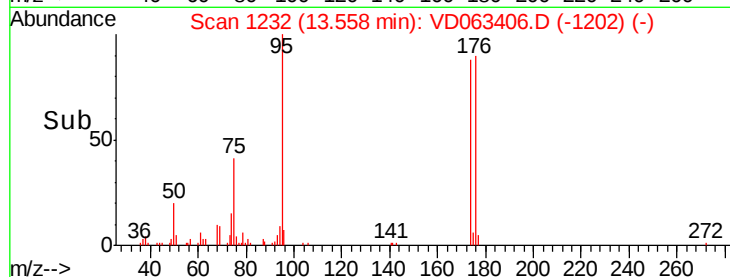
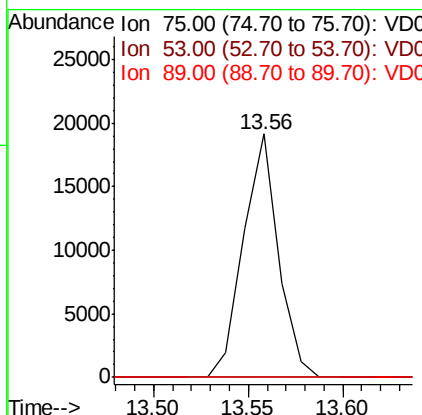
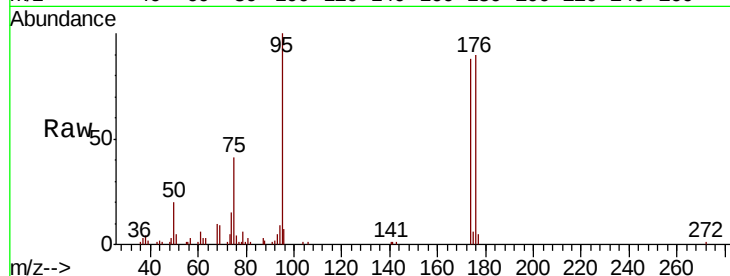




#81
trans-1,4-Dichloro-2-butene
Concen: 145.044 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.09 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

Instrument :
MSVOA_D
ClientSampleId :
CP-MW3-S-8-12-SOILRE

Tgt Ion: 75 Resp: 24477
Ion Ratio Lower Upper
75 100
53 0.0 94.9 142.3#
89 0.0 37.4 56.0#



#95
Naphthalene
Concen: 2.549 ug/l
RT: 16.13 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063406.D
Acq: 6 Aug 2019 18:33

Tgt Ion: 128 Resp: 3990
Ion Ratio Lower Upper
128 100
127 18.2 10.2 15.4#
129 13.5 7.8 11.8#

