

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\W011020\
 Data File : VW014610.D
 Acq On : 10 Jan 2020 19:55
 Operator : SY/VA
 Sample : L1091-01
 Misc : 4.8G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GRAVEL-SOIL

Quant Time: Jan 11 04:02:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 03 16:07:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	513060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	841303	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	436722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	130950	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	318580	71.02	ug/l	0.00
Spiked Amount						
			Recovery	=	142.04%	
35) Dibromofluoromethane	7.88	113	306385	63.72	ug/l	0.00
Spiked Amount						
			Recovery	=	127.44%	
50) Toluene-d8	10.32	98	782166	38.98	ug/l	0.00
Spiked Amount						
			Recovery	=	77.96%	
62) 4-Bromofluorobenzene	12.62	95	210413	30.92	ug/l	0.00
Spiked Amount						
			Recovery	=	61.84%	

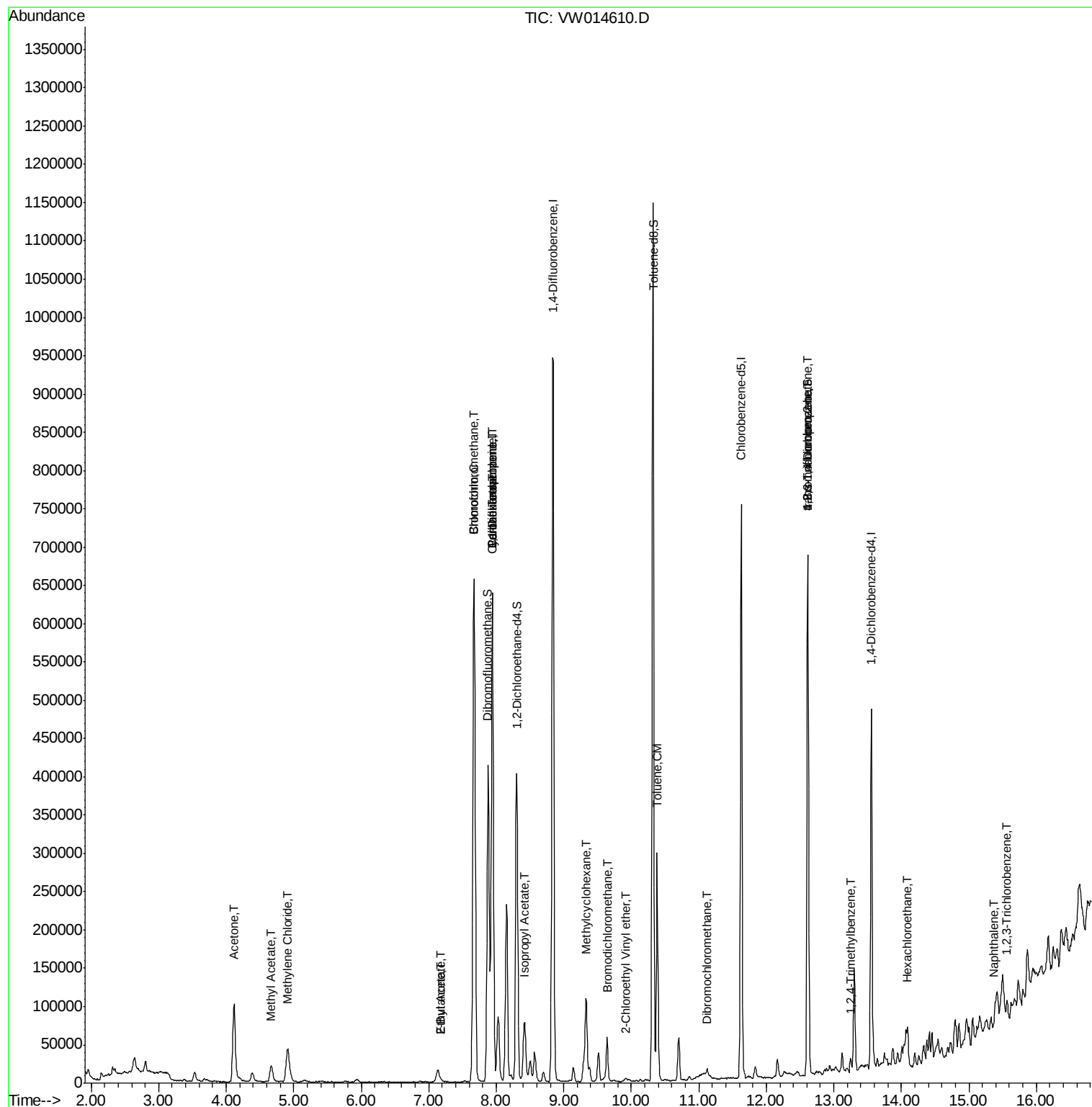
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	4351	Below Cal		97
16) Acetone	4.12	43	178824	141.181	ug/l	98
18) Methyl Acetate	4.67	43	42115	13.767	ug/l	97
20) Methylene Chloride	4.92	84	39051	3.413	ug/l	93
25) 2-Butanone	7.18	43	4730	2.910	ug/l	92
28) Bromochloromethane	7.67	49	47748	13.221	ug/l #	11
30) Chloroform	7.67	83	649603	75.408	ug/l	99
31) Cyclohexane	7.93	56	16048	1.676	ug/l #	46
36) 1,1-Dichloropropene	7.95	75	35240	4.345	ug/l #	50
37) Ethyl Acetate	7.18	43	4730	1.286	ug/l #	67
38) Carbon Tetrachloride	7.95	117	45332	6.443	ug/l #	17
39) Methylcyclohexane	9.33	83	43982	4.226	ug/l	89
43) Isopropyl Acetate	8.41	43	42792	6.406	ug/l #	51
47) Bromodichloromethane	9.64	83	39796	5.798	ug/l	99
52) Toluene	10.38	92	129349	8.960	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.93	63	1990	1.240	ug/l	90
60) Dibromochloromethane	11.13	129	5938	1.296	ug/l	83
76) 1,2,3-Trichloropropane	12.62	75	101839	82.253	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	101839	183.264	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.24	105	10505	1.308	ug/l	96
90) Hexachloroethane	14.10	117	3069	1.971	ug/l #	17
95) Naphthalene	15.36	128	6860	1.562	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.57	180	4484	1.997	ug/l #	12

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

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Quant Time: Jan 11 04:02:15 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W010320S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 03 16:07:20 2020
Response via : Initial Calibration

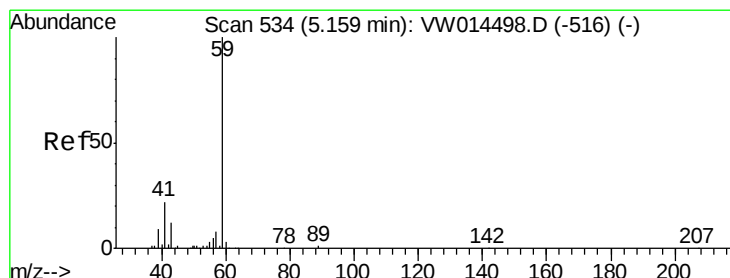
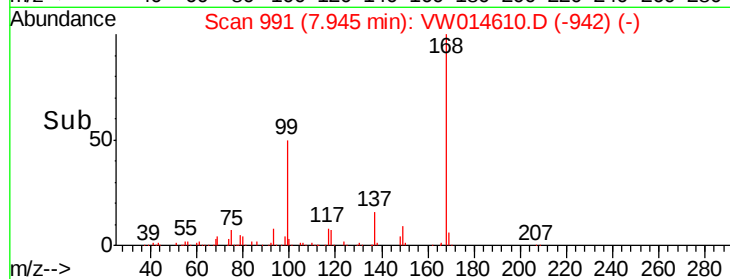
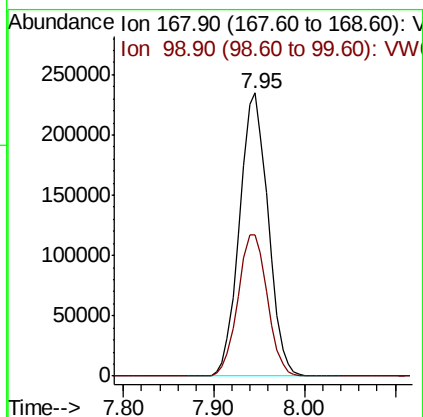
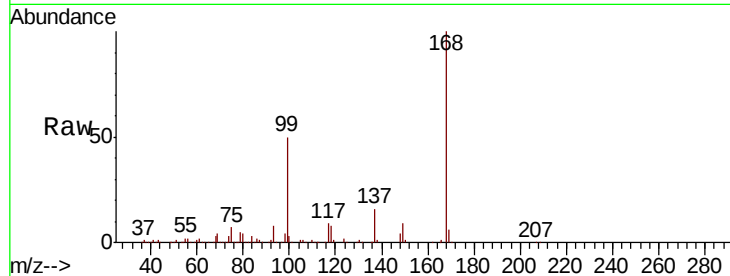




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.00 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

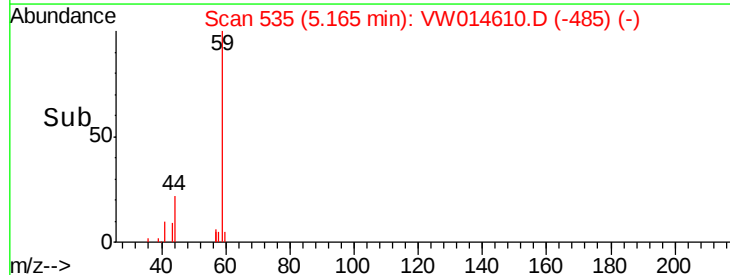
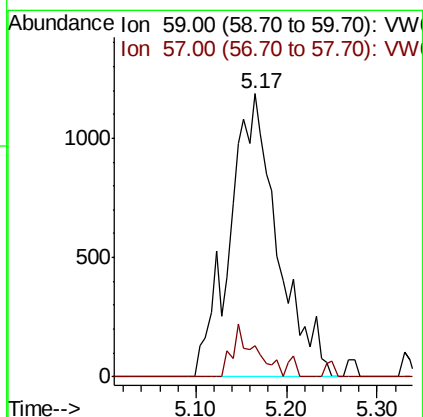
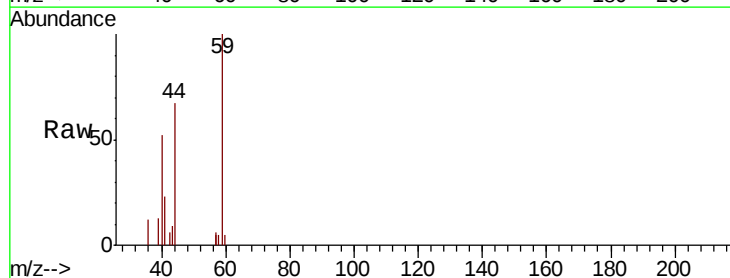
Instrument :
MSVOA_W
ClientSampleId :
GRAVEL-SOIL

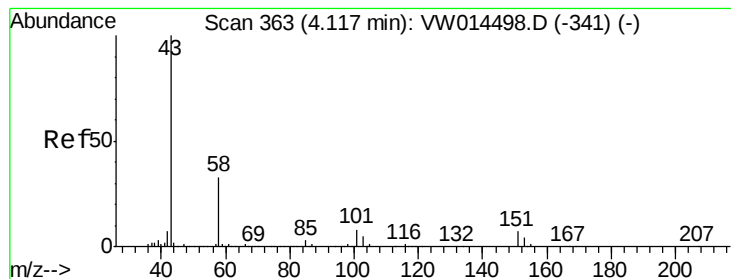
Tot Ion:168 Resp: 513060
Ion Ratio Lower Upper
168 100
99 50.1 41.1 61.7



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.17 min Scan# 535
Delta R.T. 0.01 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

Tgt Ion: 59 Resp: 4351
Ion Ratio Lower Upper
59 100
57 8.8 7.8 11.8





#16

Acetone

Concen: 141.181 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

Instrument :

MSVOA_W

ClientSampled :

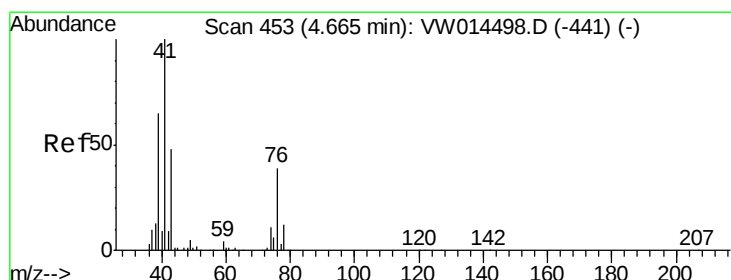
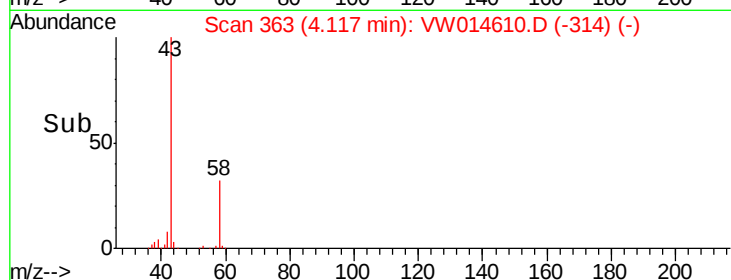
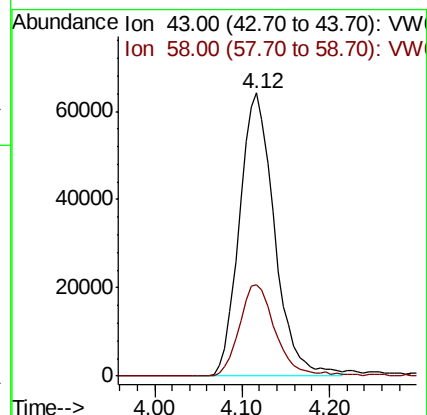
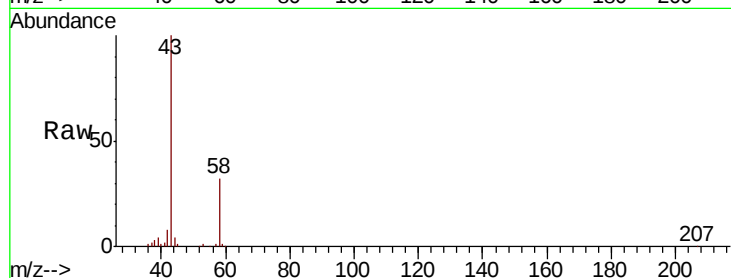
GRAVEL-SOIL

Tot Ion: 43 Resp: 178824

Ion Ratio Lower Upper

43 100

58 32.2 26.6 39.8



#18

Methyl Acetate

Concen: 13.767 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW014610.D

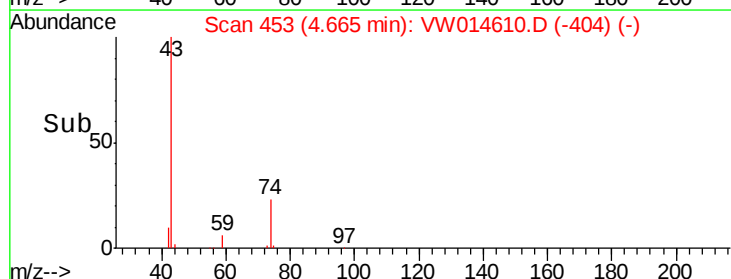
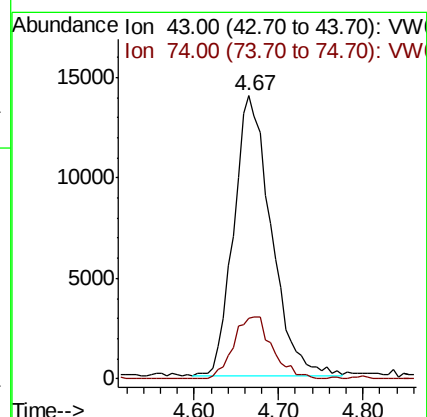
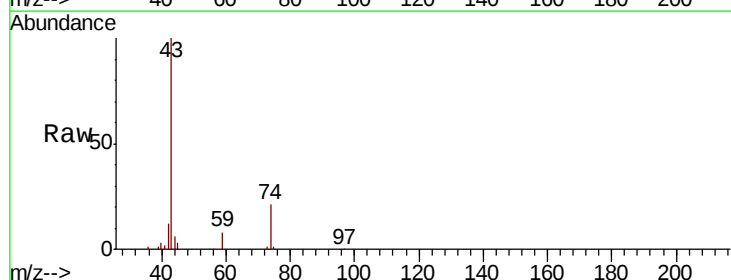
Acq: 10 Jan 2020 19:55

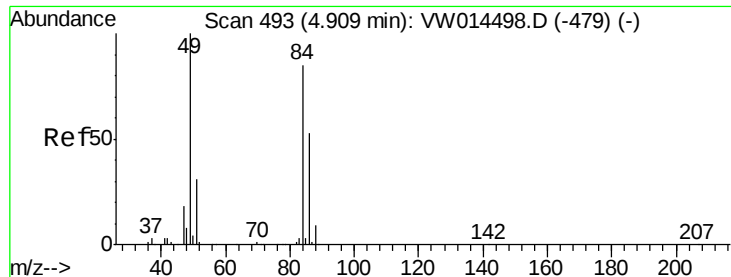
Tgt Ion: 43 Resp: 42115

Ion Ratio Lower Upper

43 100

74 22.8 19.3 28.9

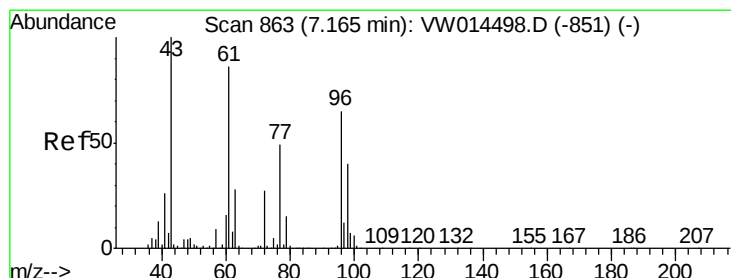
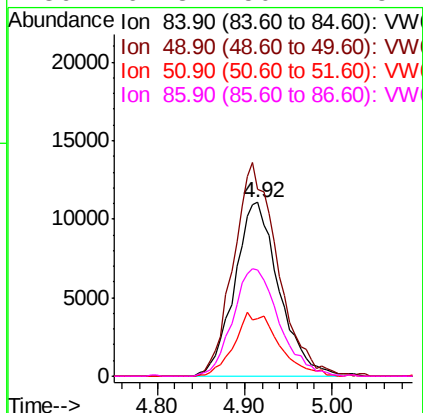
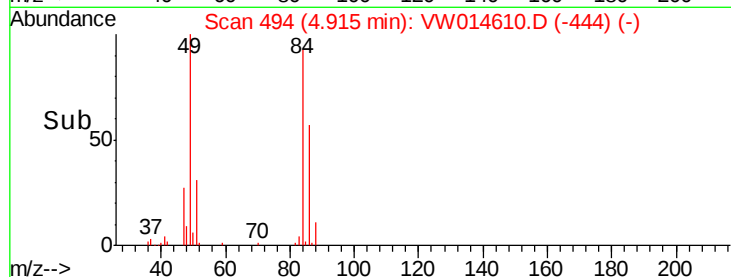
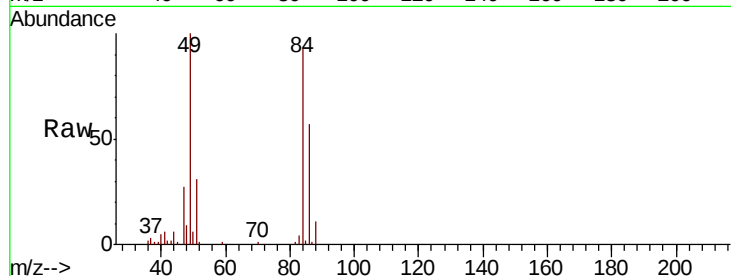




#20
Methvlene Chloride
Concen: 3.413 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

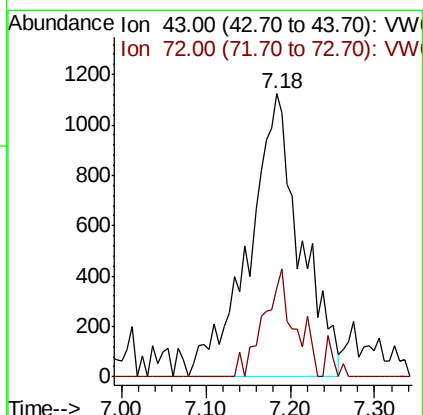
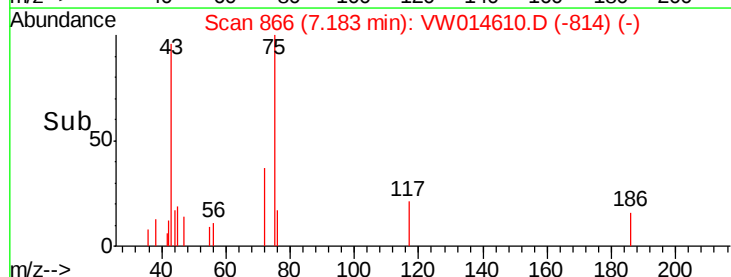
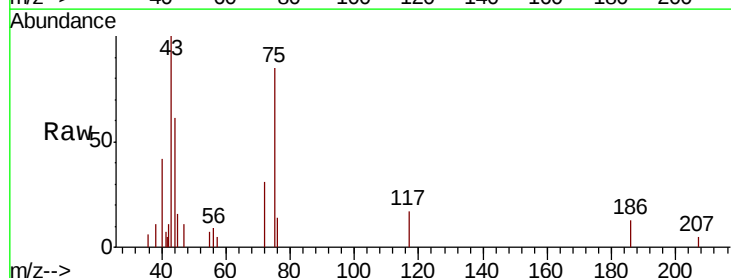
Instrument :
MSVOA_W
ClientSampleId :
GRAVEL-SOIL

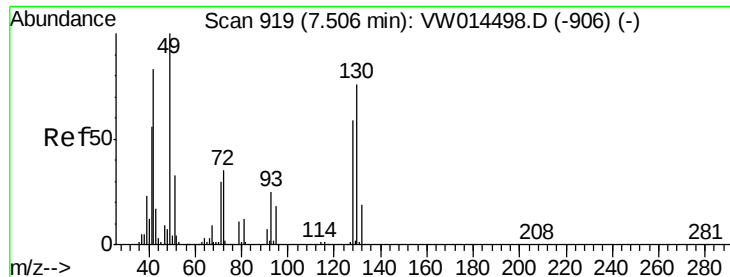
Tot Ion:	84	Resp:	39051
Ion	Ratio	Lower	Upper
84	100		
49	107.9	94.4	141.6
51	33.3	29.5	44.3
86	61.3	50.2	75.2



#25
2-Butanone
Concen: 2.910 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.02 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

Tgt Ion:	43	Resp:	4730
Ion	Ratio	Lower	Upper
43	100		
72	31.4	21.9	32.9





#28

Bromochloromethane

Concen: 13.221 ug/l

RT: 7.67 min Scan# 946

Delta R.T. 0.16 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

Instrument :
MSVOA_W
ClientSampled :
GRAVEL-SOIL

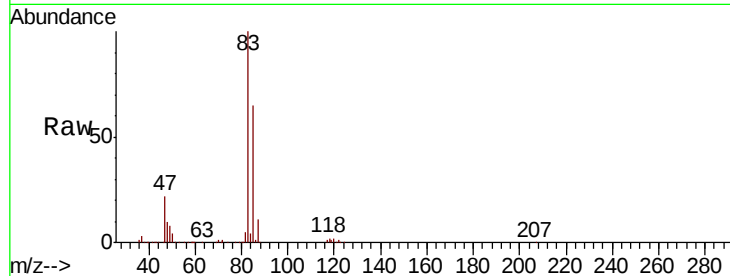
Tot Ion: 49 Resp: 47748

Ion Ratio Lower Upper

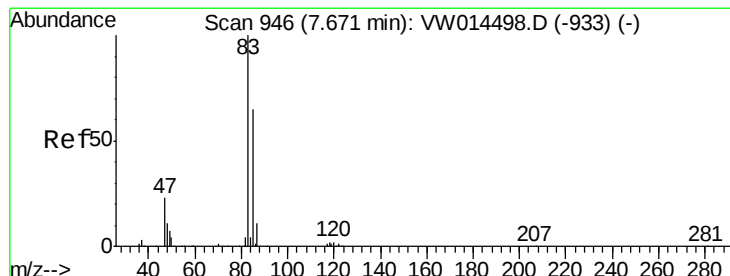
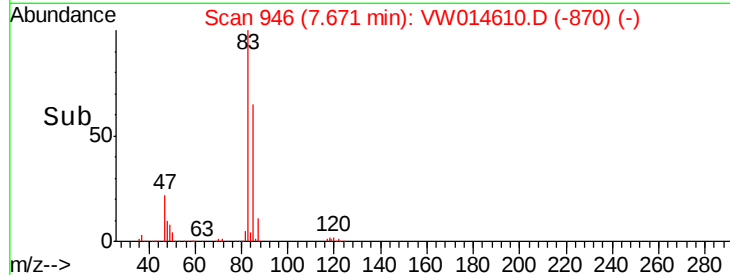
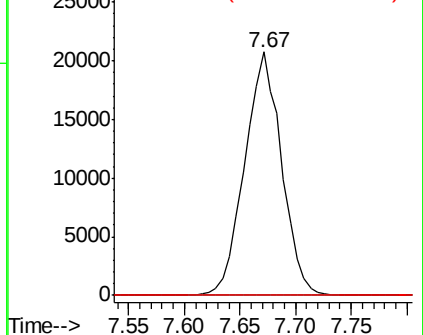
49 100

129 0.0 0.0 2.0

130 0.0 62.5 93.7#



Abundance Ion 48.90 (48.60 to 49.60): VW
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 75.408 ug/l

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014610.D

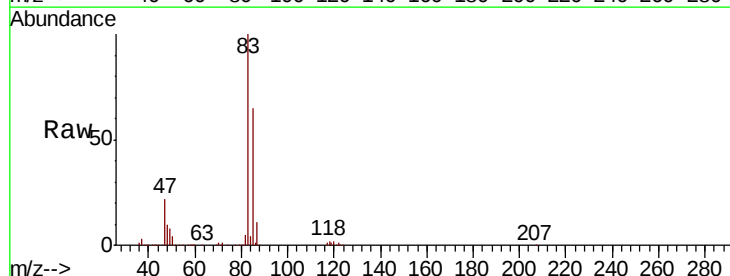
Acq: 10 Jan 2020 19:55

Tgt Ion: 83 Resp: 649603

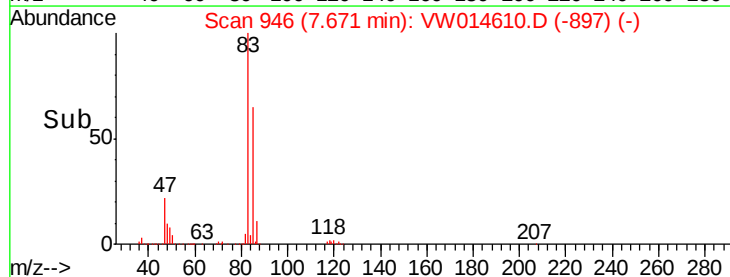
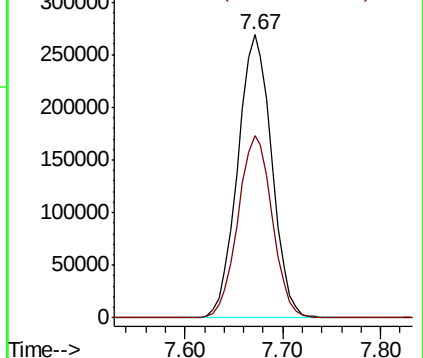
Ion Ratio Lower Upper

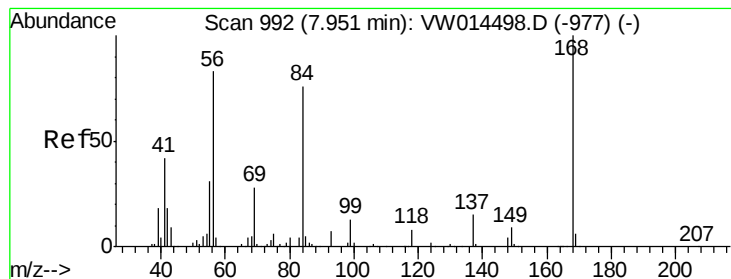
83 100

85 64.5 52.2 78.2



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 1.676 ug/l

RT: 7.93 min Scan# 989

Delta R.T. -0.02 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

Instrument :

MSVOA_W

ClientSampleId :

GRAVEL-SOIL

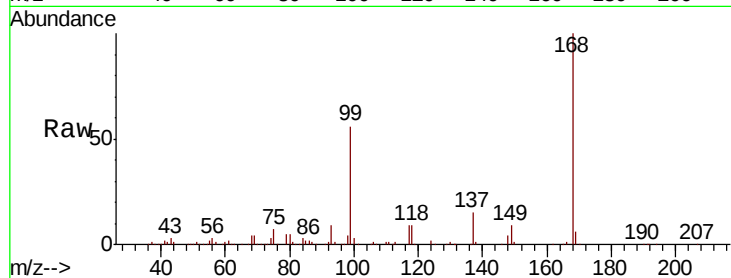
Tot Ion: 56 Resp: 16048

Ion Ratio Lower Upper

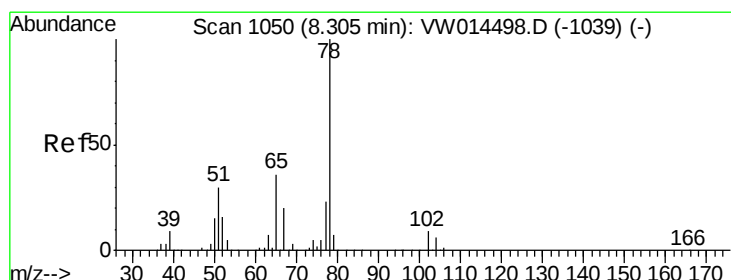
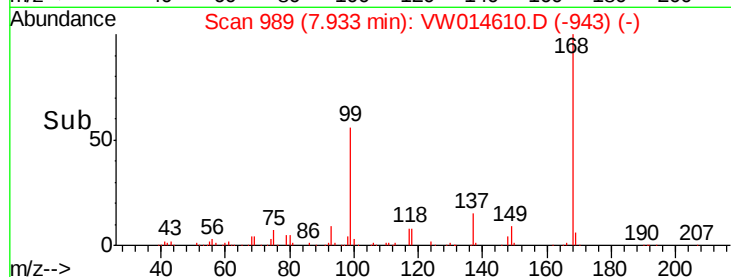
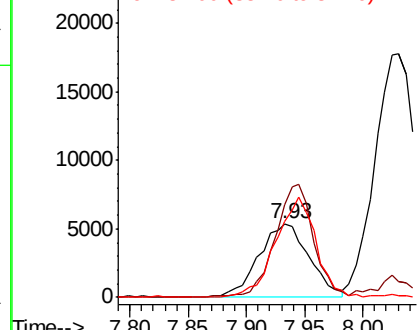
56 100

69 126.1 26.8 40.2#

84 102.5 71.8 107.6



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



#33

1,2-Dichloroethane-d4

Concen: 71.020 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW014610.D

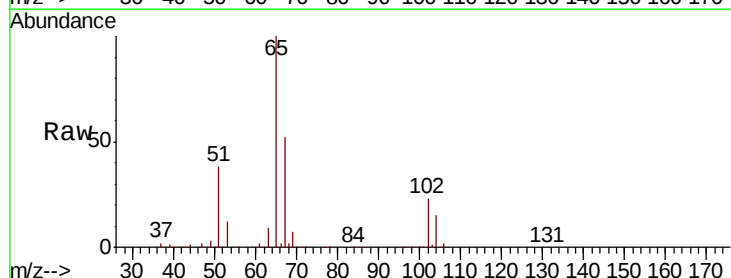
Acq: 10 Jan 2020 19:55

Tgt Ion: 65 Resp: 318580

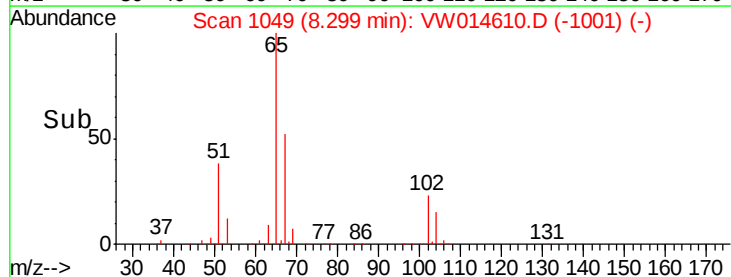
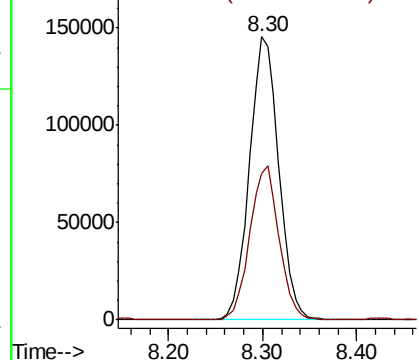
Ion Ratio Lower Upper

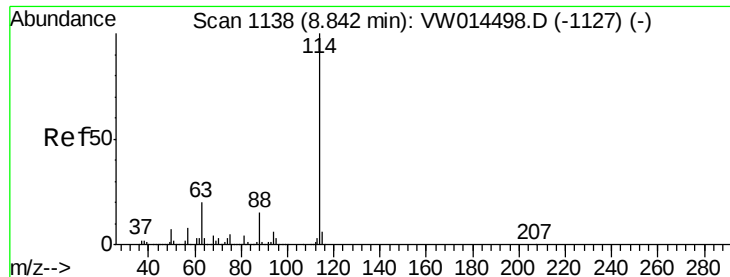
65 100

67 53.9 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

Instrument :

MSVOA_W

ClientSampleId :

GRAVEL-SOIL

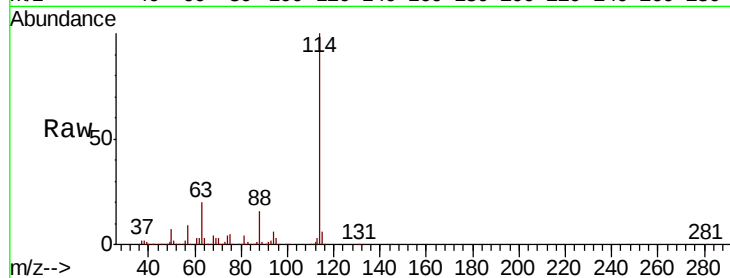
Tot Ion:114 Resp: 841303

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.4

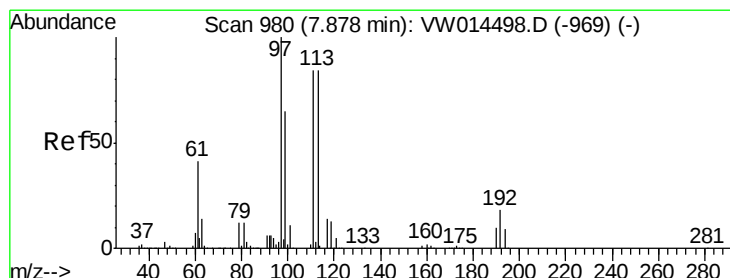
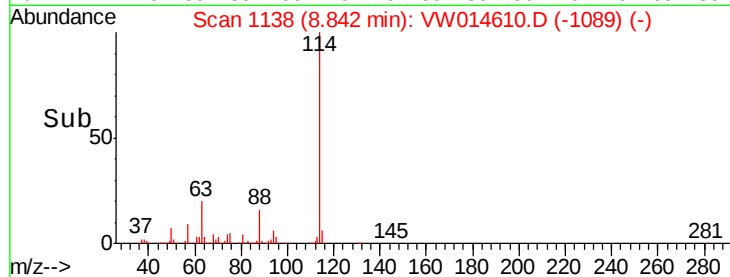
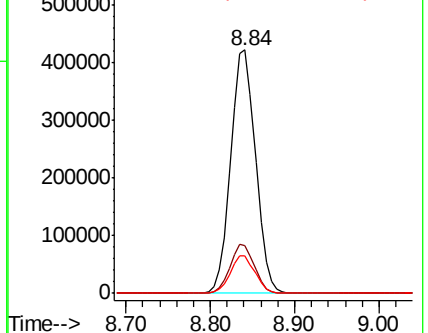
88 15.6 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 63.721 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

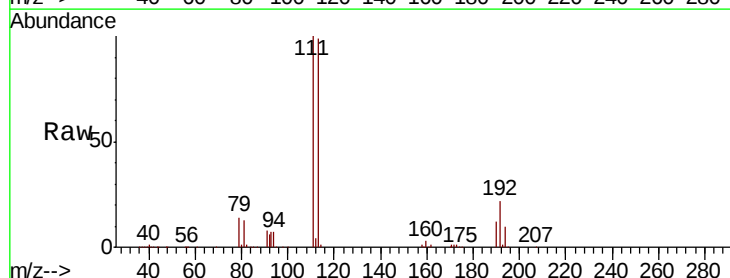
Tgt Ion:113 Resp: 306385

Ion Ratio Lower Upper

113 100

111 101.5 81.4 122.2

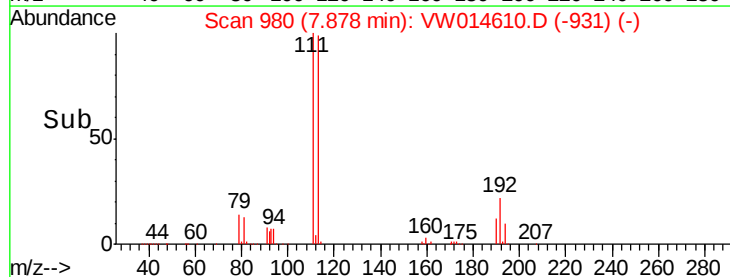
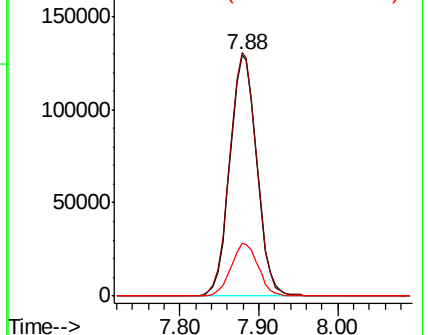
192 21.9 17.8 26.8

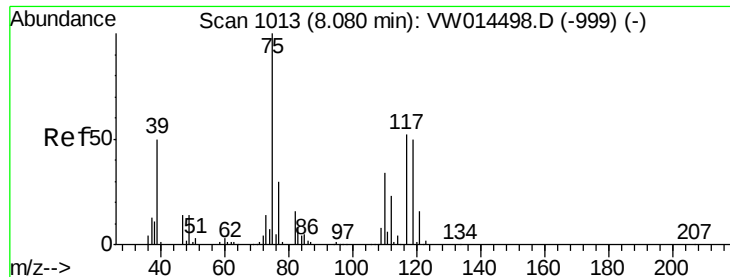


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

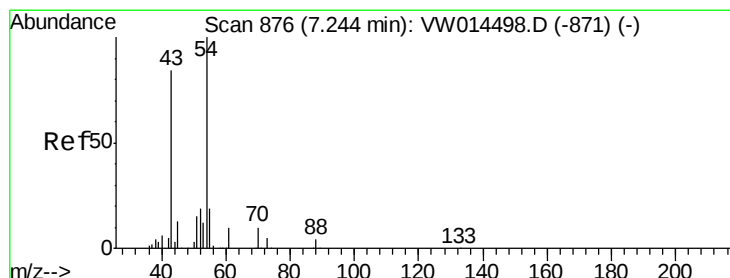
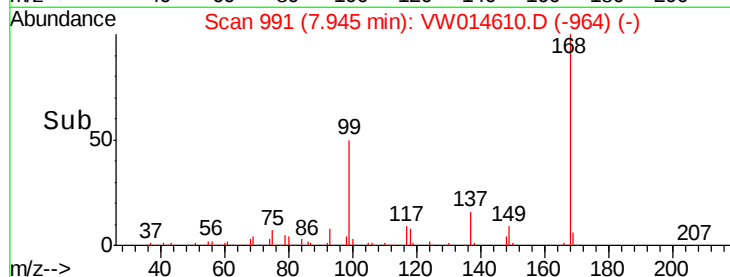
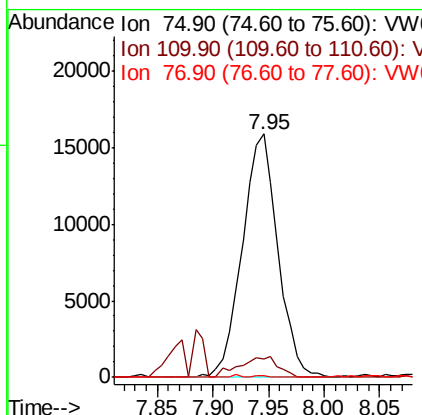
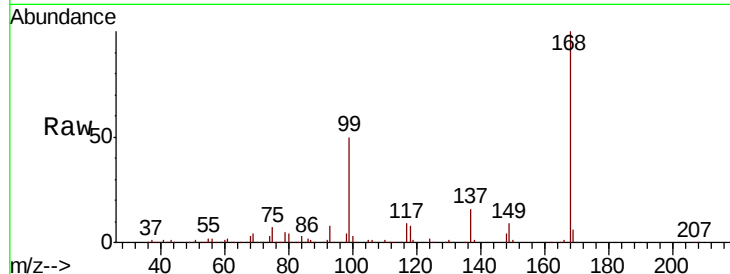




#36
 1,1-Dichloropropene
 Concen: 4.345 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW014610.D
 Acq: 10 Jan 2020 19:55

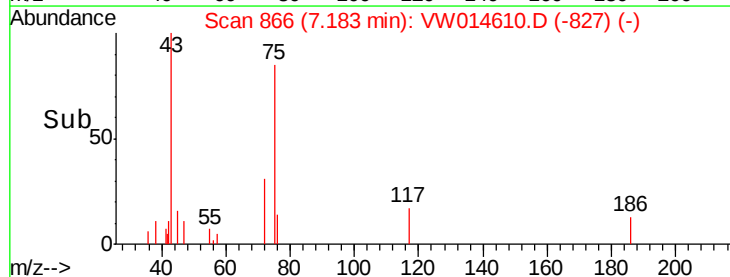
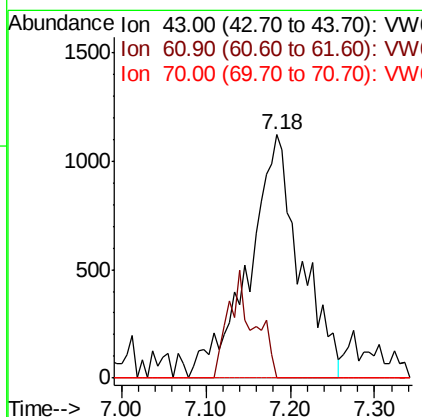
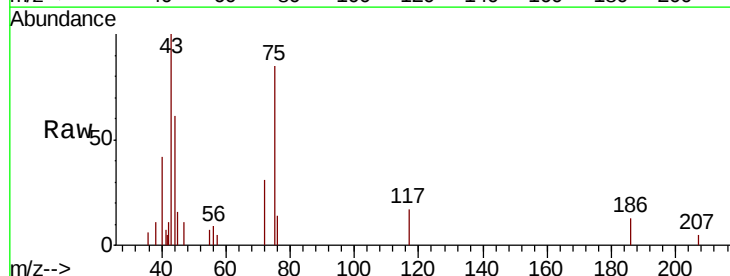
Instrument :
 MSVOA_W
 ClientSampleId :
 GRAVEL-SOIL

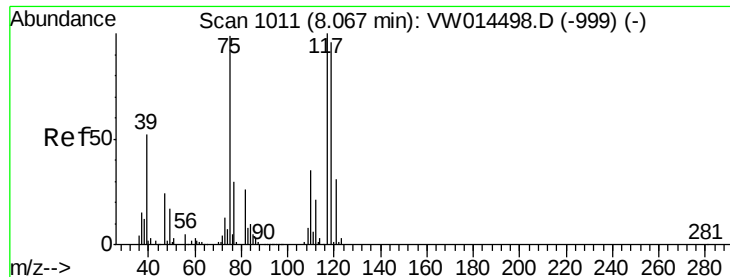
Tot Ion	75	Resp	35240
Ion Ratio	100	Lower	Upper
75	100		
110	9.3	17.8	53.5#
77	0.2	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 1.286 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. -0.06 min
 Lab File: VW014610.D
 Acq: 10 Jan 2020 19:55

Tgt Ion	43	Resp	4730
Ion Ratio	100	Lower	Upper
43	100		
61	0.0	11.7	17.5#
70	0.0	9.0	13.6#

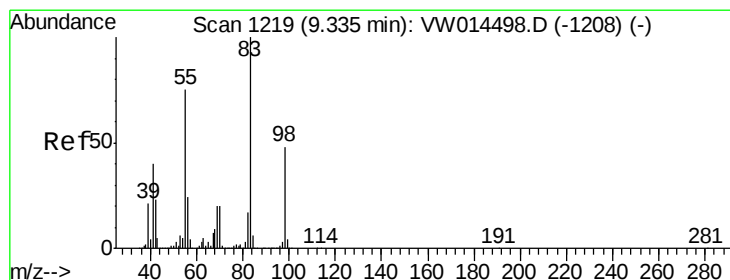
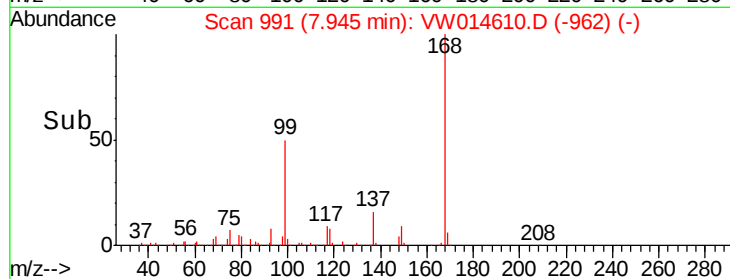
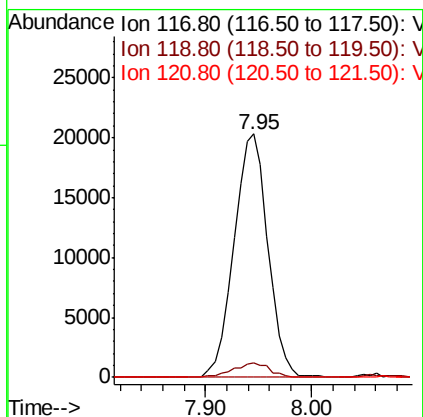
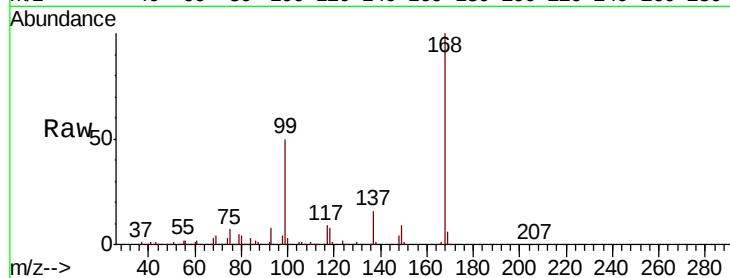




#38
Carbon Tetrachloride
Concen: 6.443 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

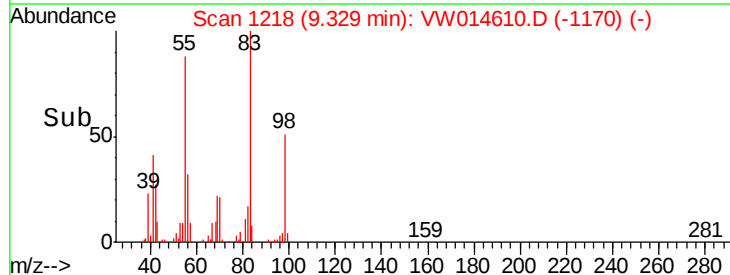
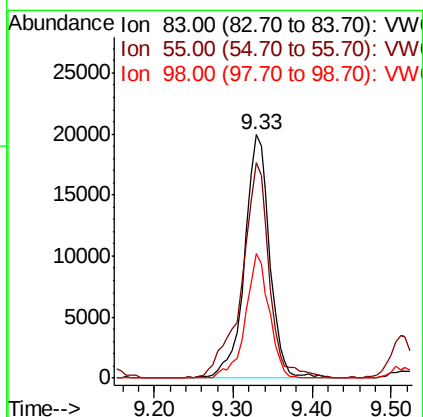
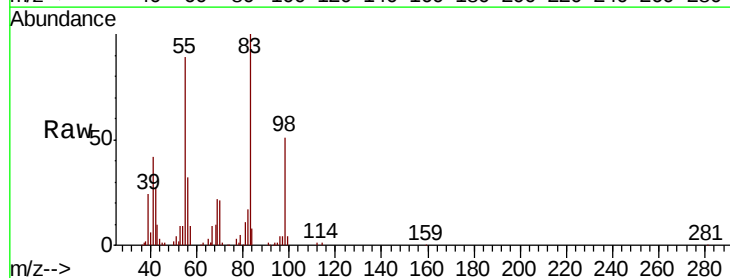
Instrument :
MSVOA_W
ClientSampled :
GRAVEL-SOIL

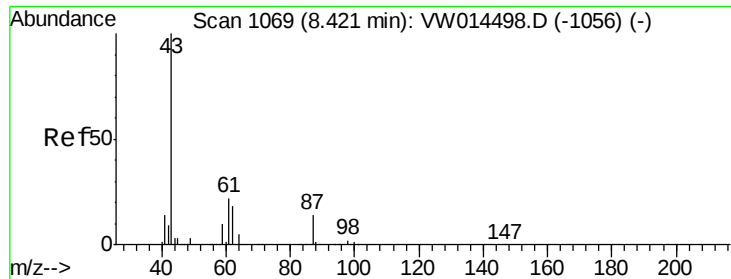
Tot Ion:117 Resp: 45332
Ion Ratio Lower Upper
117 100
119 6.1 77.0 115.6#
121 0.0 24.6 36.8#



#39
Methylcyclohexane
Concen: 4.226 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

Tgt Ion: 83 Resp: 43982
Ion Ratio Lower Upper
83 100
55 88.6 60.1 90.1
98 51.2 38.8 58.2





#43

Isopropyl Acetate

Concen: 6.406 ug/l

RT: 8.41 min Scan# 1068

Delta R.T. -0.01 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

Instrument :

MSVOA_W

ClientSampleId :

GRAVEL-SOIL

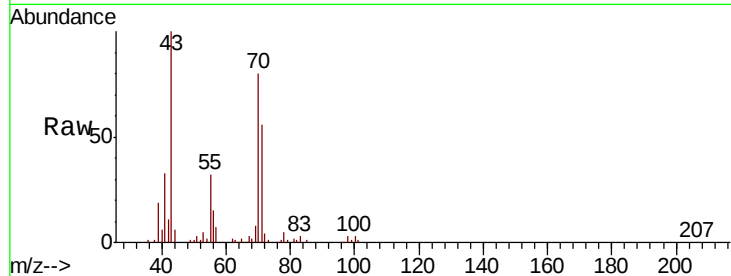
Tot Ion: 43 Resp: 42792

Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

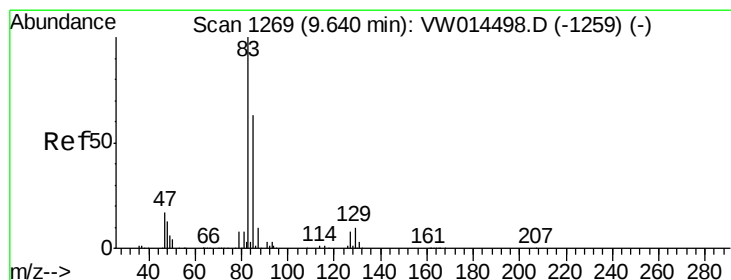
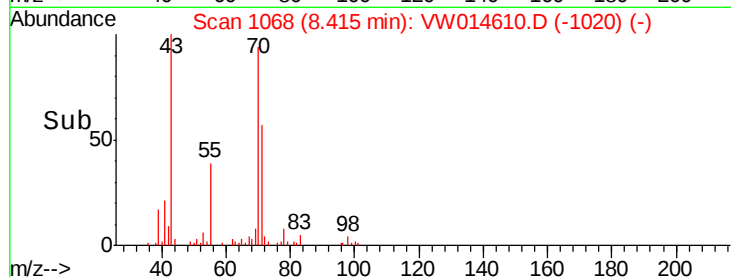
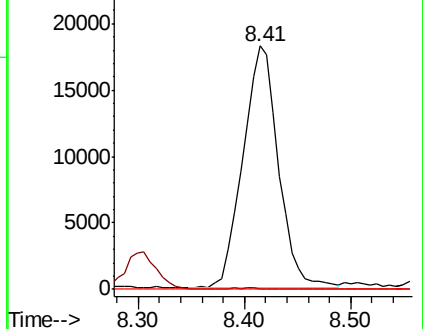
87 0.0 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#47

Bromodichloromethane

Concen: 5.798 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

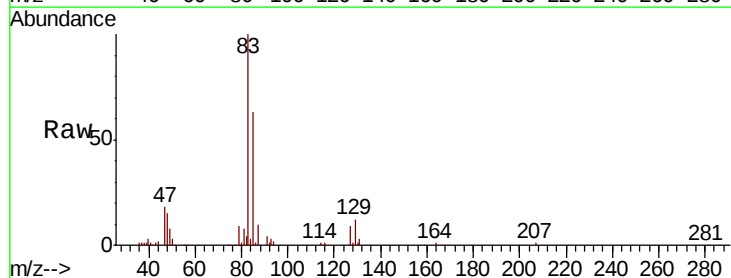
Tgt Ion: 83 Resp: 39796

Ion Ratio Lower Upper

83 100

85 62.4 50.6 76.0

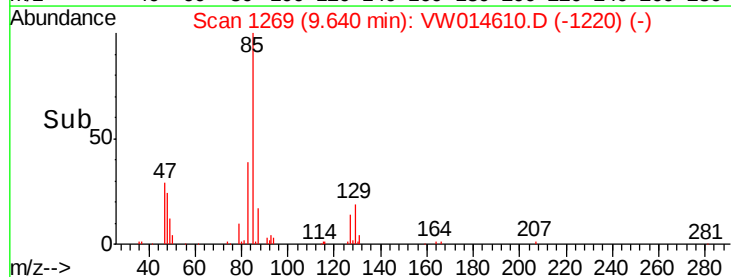
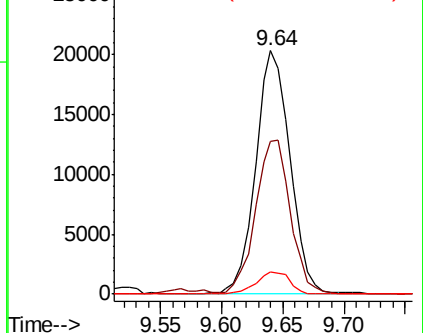
127 9.0 6.6 9.8

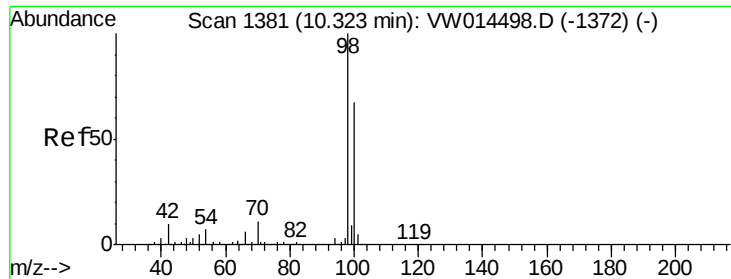


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V

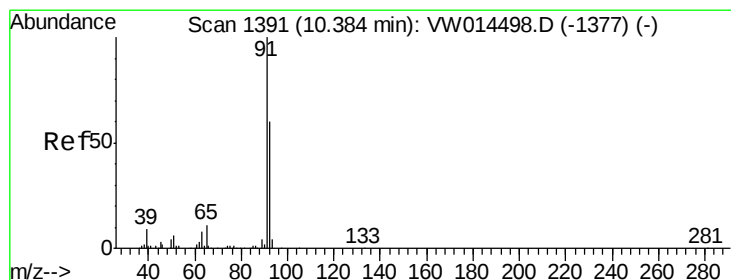
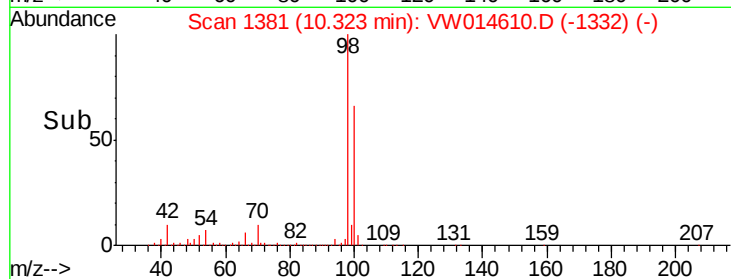
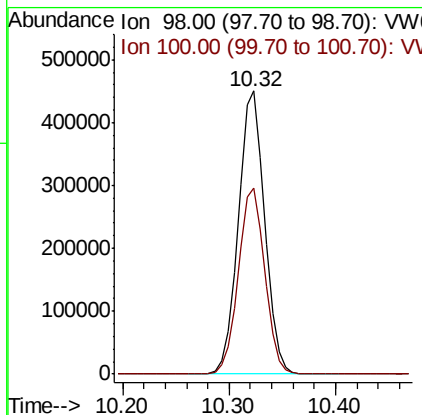
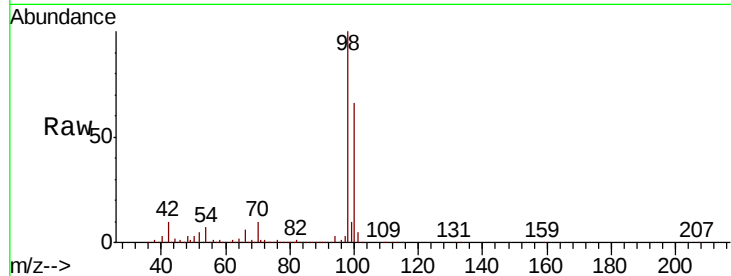




#50
Toluene-d8
Concen: 38.980 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

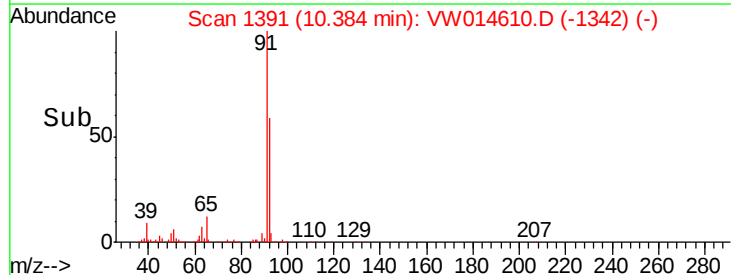
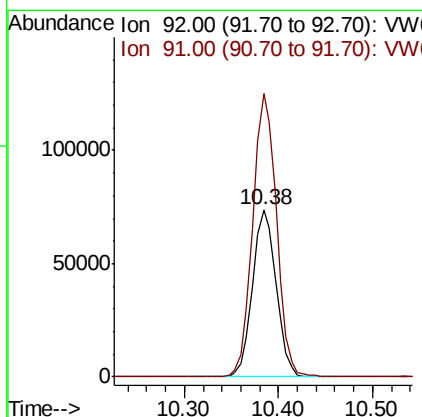
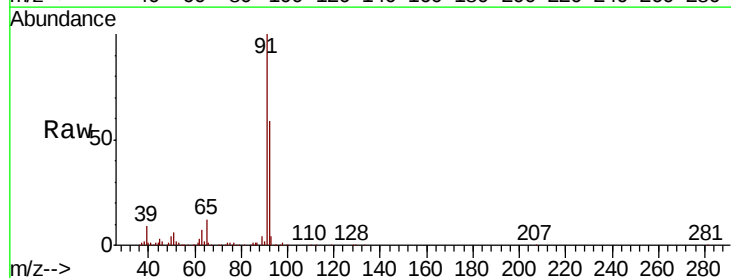
Instrument :
MSVOA_W
ClientSampleId :
GRAVEL-SOIL

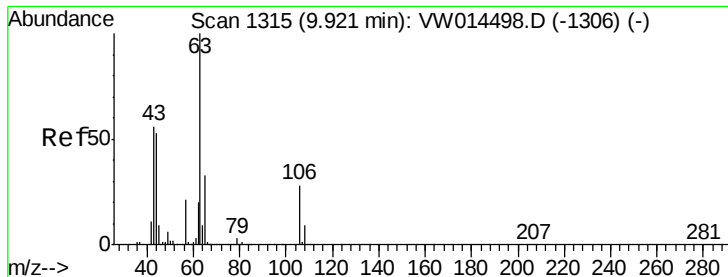
Tot Ion: 98 Resp: 782166
Ion Ratio Lower Upper
98 100
100 65.9 53.8 80.6



#52
Toluene
Concen: 8.960 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

Tgt Ion: 92 Resp: 129349
Ion Ratio Lower Upper
92 100
91 169.5 134.1 201.1

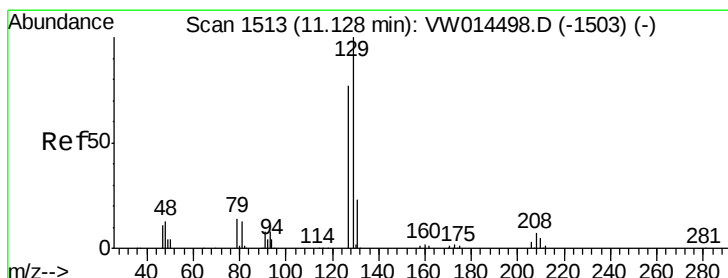
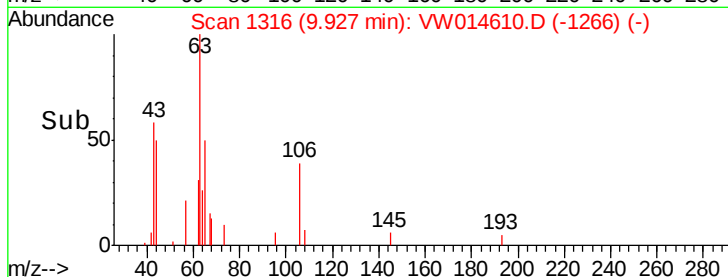
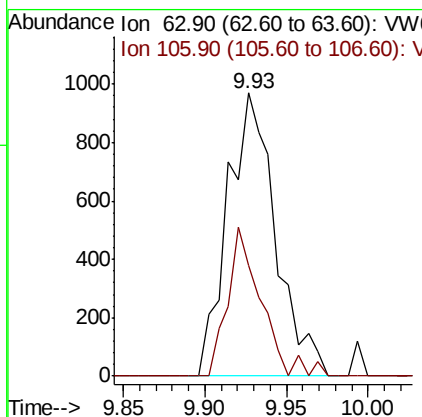
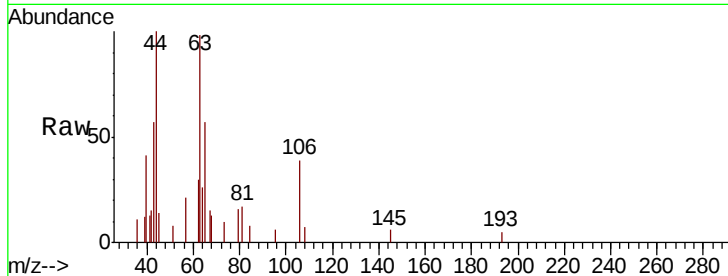




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.240 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VW014610.D
 Acq: 10 Jan 2020 19:55

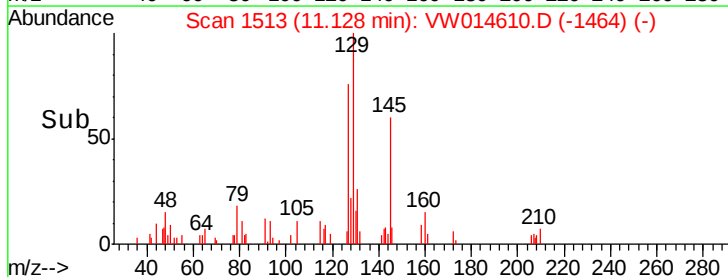
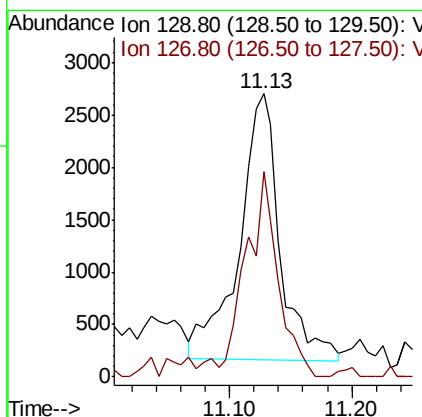
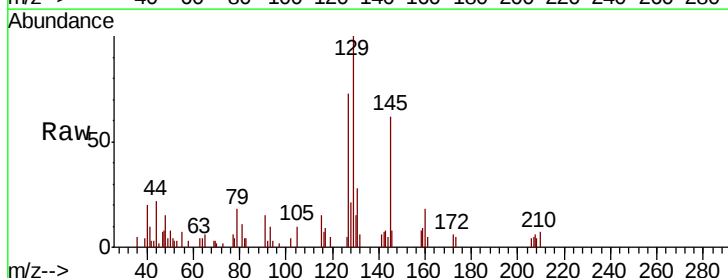
Instrument :
 MSVOA_W
 ClientSampled :
 GRAVEL-SOIL

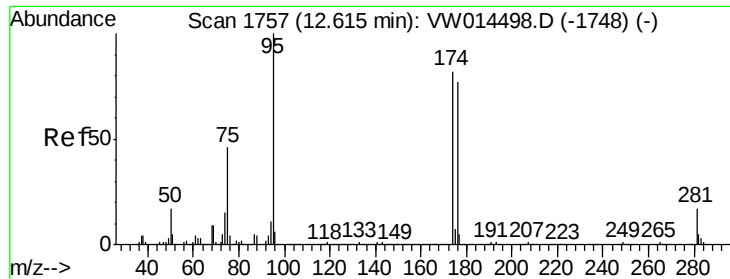
Tot Ion: 63 Resp: 1990
 Ion Ratio Lower Upper
 63 100
 106 34.3 23.0 34.6



#60
 Dibromochloromethane
 Concen: 1.296 ug/l
 RT: 11.13 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VW014610.D
 Acq: 10 Jan 2020 19:55

Tgt Ion:129 Resp: 5938
 Ion Ratio Lower Upper
 129 100
 127 61.7 38.1 114.5

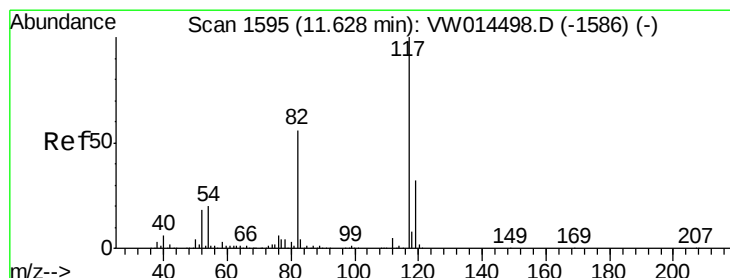
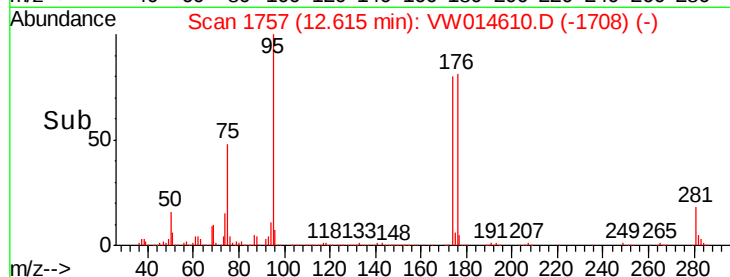
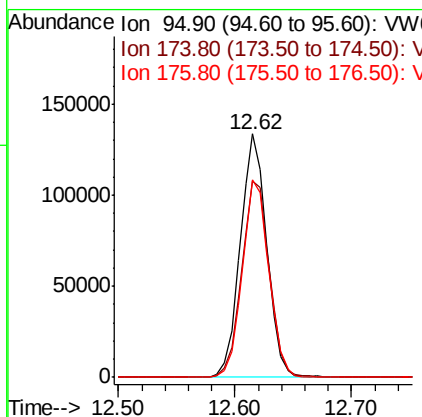
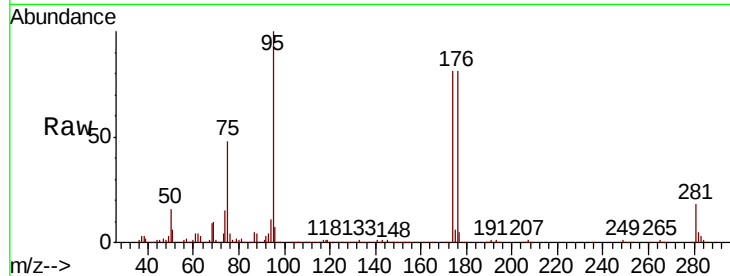




#62
4-Bromofluorobenzene
Concen: 30.915 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

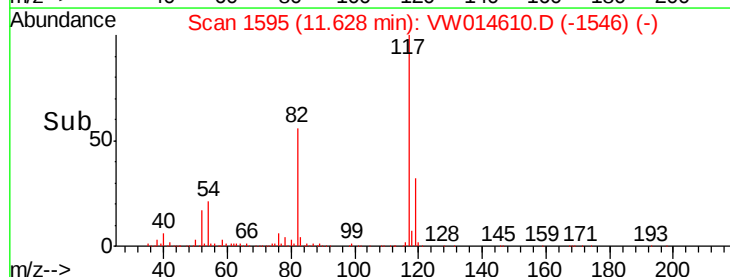
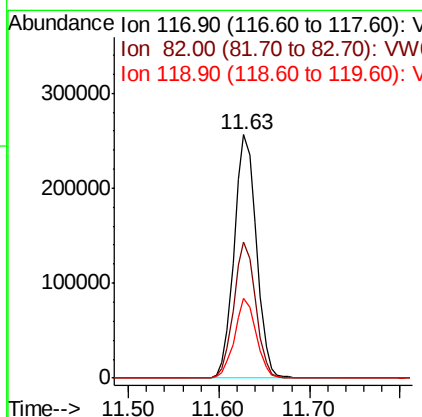
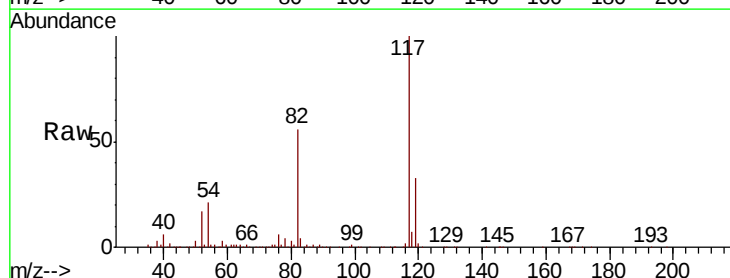
Instrument :
MSVOA_W
ClientSampleId :
GRAVEL-SOIL

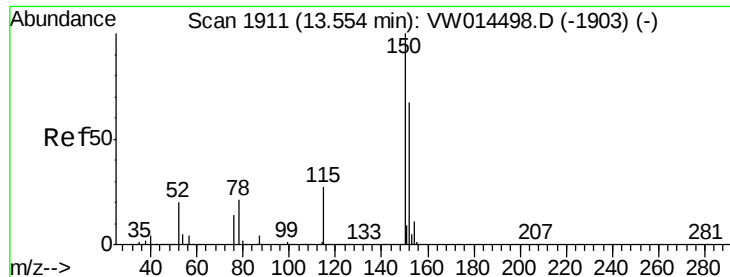
Tot Ion: 95 Resp: 210413
Ion Ratio Lower Upper
95 100
174 85.2 0.0 168.6
176 82.0 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW014610.D
Acq: 10 Jan 2020 19:55

Tgt Ion: 117 Resp: 436722
Ion Ratio Lower Upper
117 100
82 55.8 44.6 67.0
119 32.5 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

Instrument :

MSVOA_W

ClientSampleId :

GRAVEL-SOIL

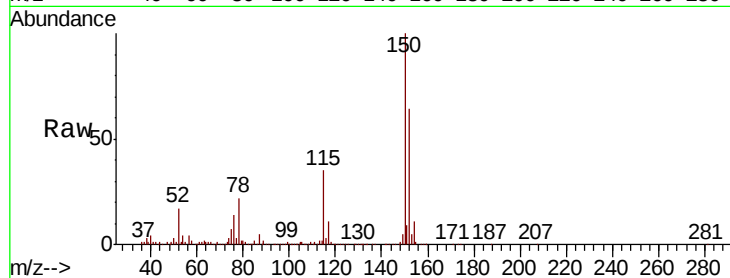
Tot Ion:152 Resp: 130950

Ion Ratio Lower Upper

152 100

115 56.5 27.7 83.1

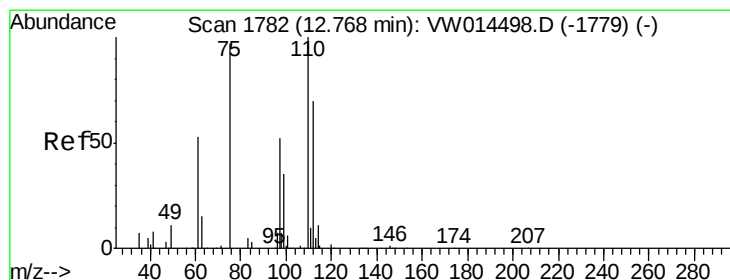
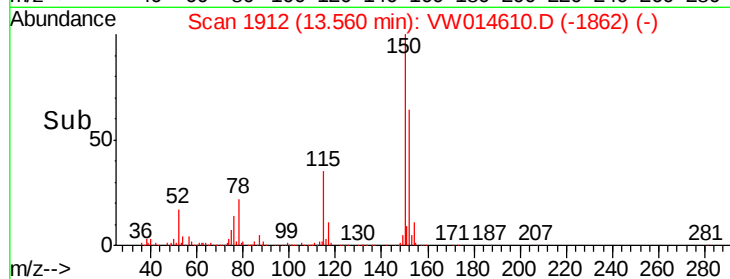
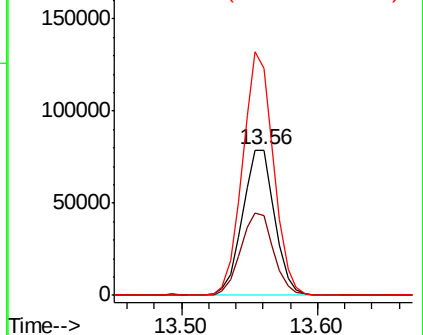
150 159.5 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 82.253 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW014610.D

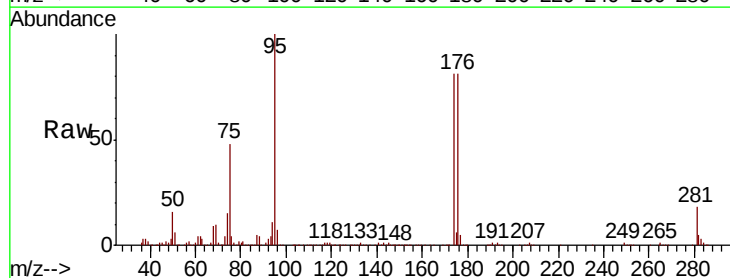
Acq: 10 Jan 2020 19:55

Tgt Ion: 75 Resp: 101839

Ion Ratio Lower Upper

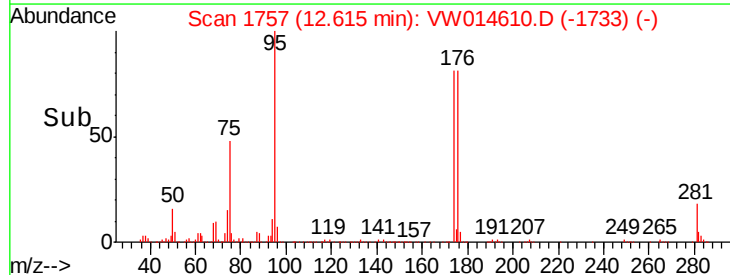
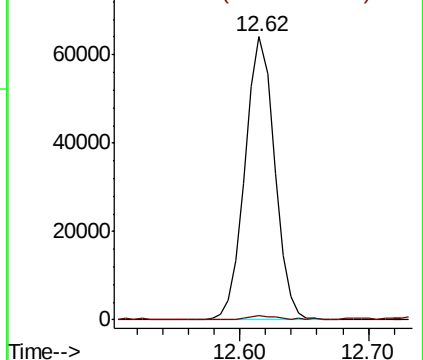
75 100

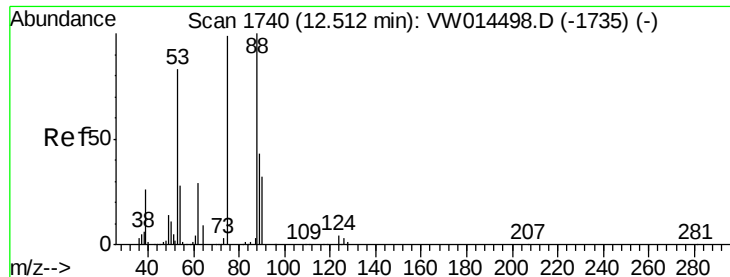
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 183.264 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

Instrument :

MSVOA_W

ClientSampleId :

GRAVEL-SOIL

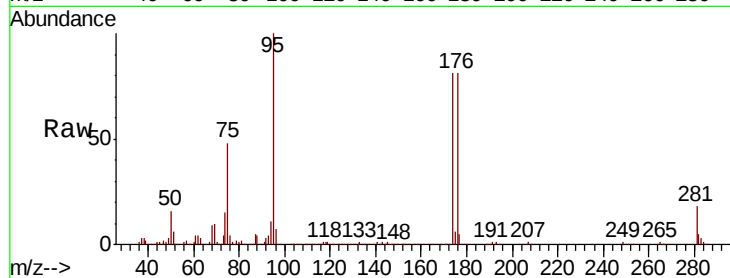
Tot Ion: 75 Resp: 101839

Ion Ratio Lower Upper

75 100

53 0.4 70.9 106.3#

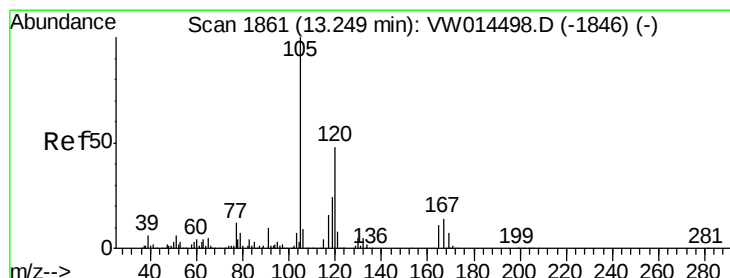
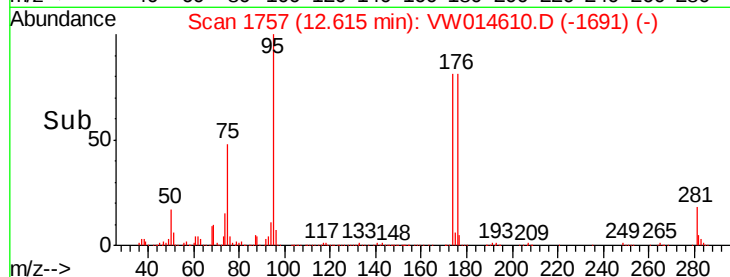
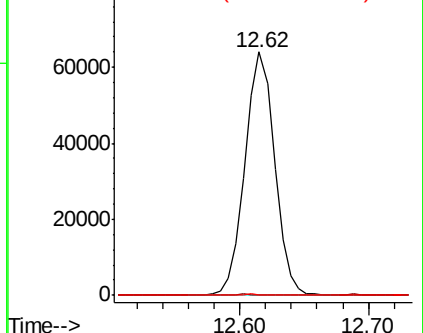
89 0.5 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#84

1,2,4-Trimethylbenzene

Concen: 1.308 ug/l

RT: 13.24 min Scan# 1860

Delta R.T. -0.01 min

Lab File: VW014610.D

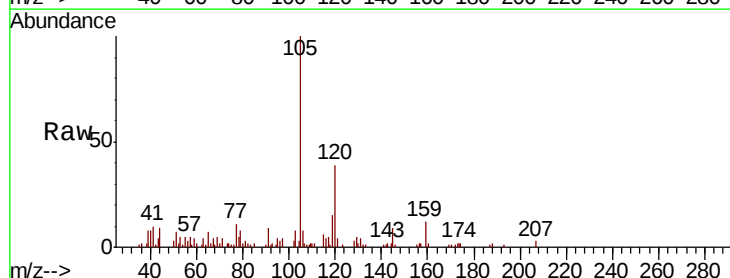
Acq: 10 Jan 2020 19:55

Tgt Ion: 105 Resp: 10505

Ion Ratio Lower Upper

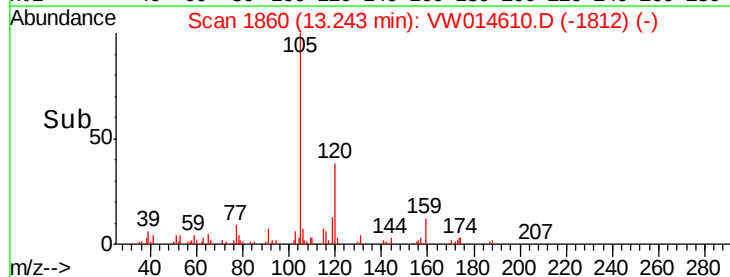
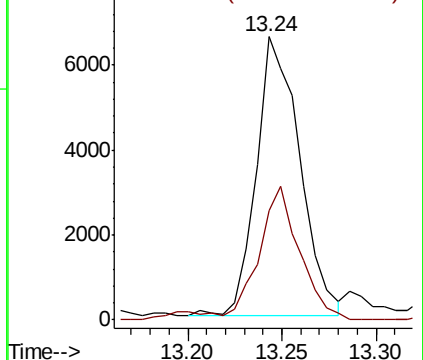
105 100

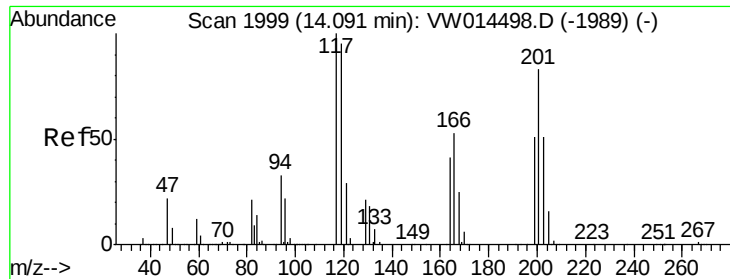
120 44.4 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.971 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

Instrument :

MSVOA_W

ClientSampleId :

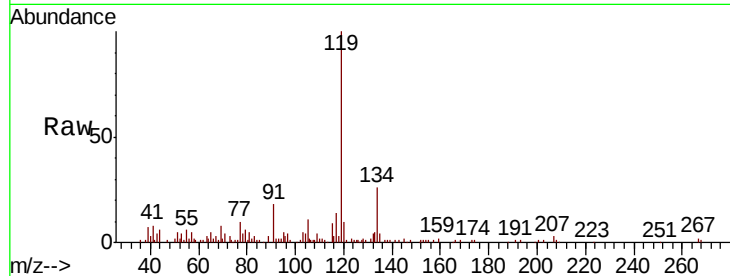
GRAVEL-SOIL

Tot Ion:117 Resp: 3069

Ion Ratio Lower Upper

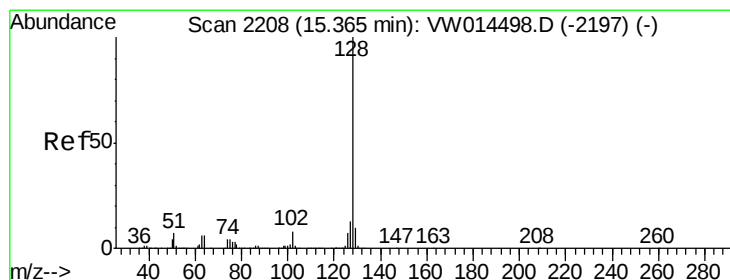
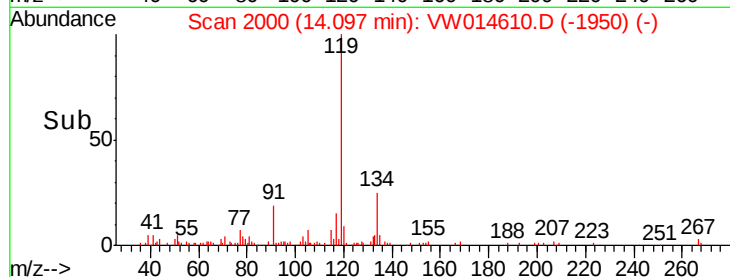
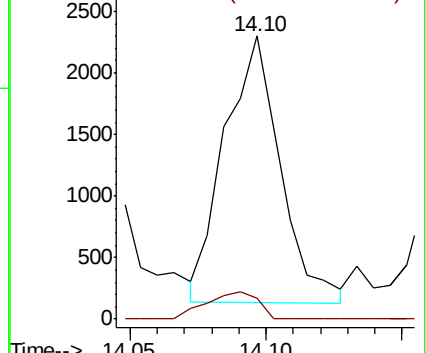
117 100

201 9.6 43.0 128.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.562 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014610.D

Acq: 10 Jan 2020 19:55

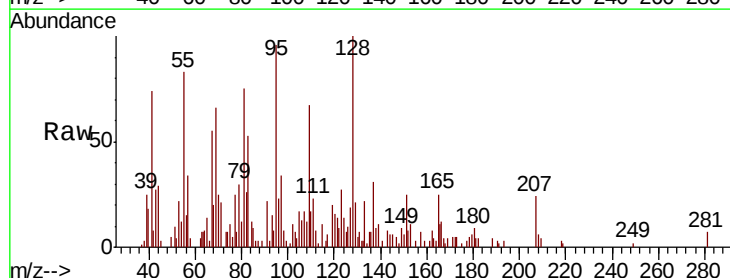
Tgt Ion:128 Resp: 6860

Ion Ratio Lower Upper

128 100

127 6.5 10.6 15.8#

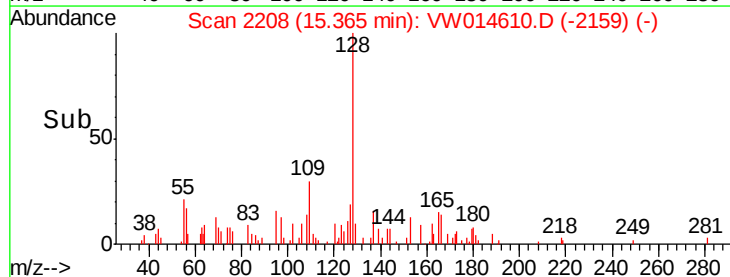
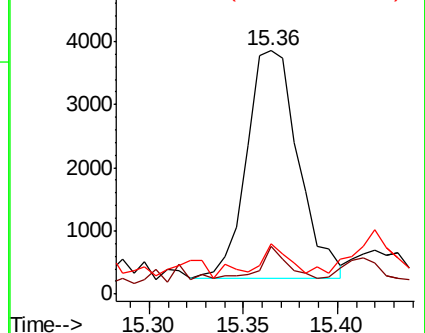
129 5.5 8.7 13.1#

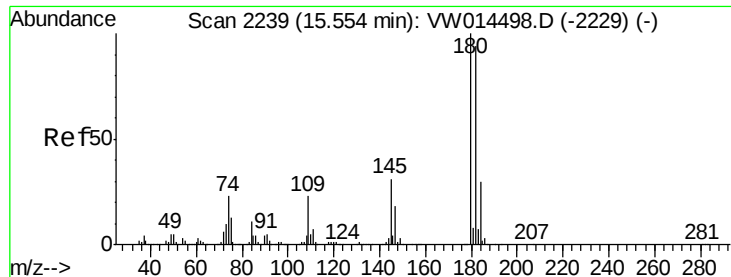


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.997 ug/l
 RT: 15.57 min Scan# 2242
 Delta R.T. 0.02 min
 Lab File: VW014610.D
 Acq: 10 Jan 2020 19:55

Instrument :
 MSVOA_W
 ClientSampleId :
 GRAVEL-SOIL

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.2#
145	0.0	15.5	46.5#

