

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
 Data File : VD062423.D
 Acq On : 16 May 2019 17:53
 Operator : FY/SY
 Sample : K2851-01
 Misc : 4.85g/5mL/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-COMP

Quant Time: May 17 02:30:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	49174	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	57995	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	12728	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	3139	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	34239	74.92	ug/l	0.03
Spiked Amount	50.000		Recovery	=	149.84%	
35) Dibromofluoromethane	6.93	113	41201	85.62	ug/l	0.03
Spiked Amount	50.000		Recovery	=	171.24%	
50) Toluene-d8	10.41	98	17682	15.24	ug/l	0.01
Spiked Amount	50.000		Recovery	=	30.48%	
62) 4-Bromofluorobenzene	13.56	95	2847	6.11	ug/l	0.01
Spiked Amount	50.000		Recovery	=	12.22%	

Target Compounds

						Qvalue
5) Bromomethane	2.11	94	202	2.581	ug/l #	12
16) Acetone	3.23	43	9141	95.384	ug/l #	86
17) Carbon Disulfide	3.38	76	16178	14.999	ug/l	98
18) Methyl Acetate	3.63	43	532	2.817	ug/l #	53
20) Methylene Chloride	3.81	84	3261	8.150	ug/l #	83
24) 1,1-Dichloroethane	4.99	63	1598	2.283	ug/l #	85
30) Chloroform	6.67	83	866	1.027	ug/l #	18
31) Cyclohexane	6.97	56	2371	4.945	ug/l #	70
36) 1,1-Dichloropropene	7.03	75	3483	7.325	ug/l #	40
38) Carbon Tetrachloride	7.04	117	4243	6.447	ug/l #	12
39) Methylcyclohexane	8.87	83	2878	6.317	ug/l #	71
40) Benzene	7.47	78	8712	8.114	ug/l #	79
43) Isopropyl Acetate	9.02	43	1936	6.769	ug/l #	43
48) Methyl methacrylate	9.02	41	1204	6.835	ug/l #	14
51) 4-Methyl-2-Pentanone	10.35	43	190	1.034	ug/l #	37
52) Toluene	10.51	92	3095	4.430	ug/l	84
55) 1,1,2-Trichloroethane	11.10	97	713	2.884	ug/l #	16
59) 2-Hexanone	11.49	43	1370	10.111	ug/l #	27
69) o-Xylene	13.06	106	178	1.326	ug/l	53
73) Isopropylbenzene	13.40	105	450	2.392	ug/l #	51
74) N-amyl acetate	13.22	43	1246	25.257	ug/l #	50
76) 1,2,3-Trichloropropane	13.55	75	1077	28.870	ug/l #	42
78) n-propylbenzene	13.78	91	2415	10.759	ug/l	97
79) 2-Chlorotoluene	13.78	91	2415	18.787	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.94	105	371	2.341	ug/l #	29
81) trans-1,4-Dichloro-2-buten	13.55	75	1077	102.267	ug/l #	16
82) 4-Chlorotoluene	13.98	91	292	1.930	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.24	105	861	5.415	ug/l	78
85) sec-Butylbenzene	14.37	105	1303	6.673	ug/l #	60
86) p-Isopropyltoluene	14.48	119	194	1.112	ug/l #	52
89) n-Butylbenzene	14.80	91	2851	18.207	ug/l	96
90) Hexachloroethane	15.06	117	538	11.340	ug/l #	20
91) 1,2-Dichlorobenzene	14.81	146	216	2.726	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.95	180	344	5.964	ug/l #	84

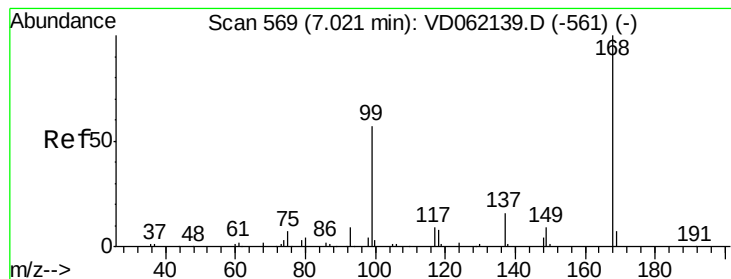
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062423.D
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Quant Time: May 17 02:30:25 2019
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Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	16.13	128	2413	29.965	ug/l #	70
96) 1,2,3-Trichlorobenzene	16.28	180	273	7.528	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

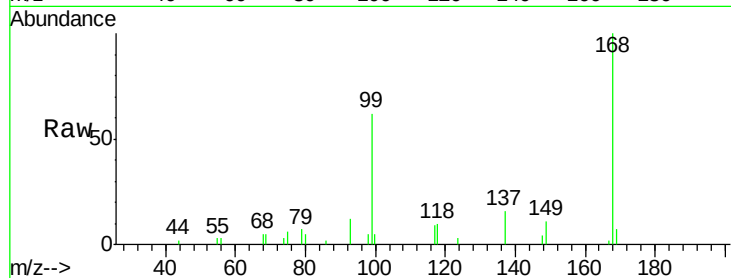
SOIL-COMP

Tot Ion:168 Resp: 49174

Ion Ratio Lower Upper

168 100

99 61.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

20000

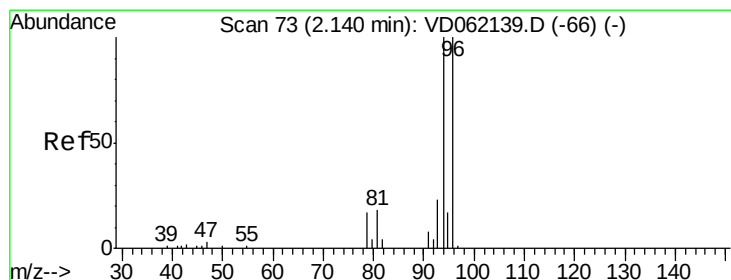
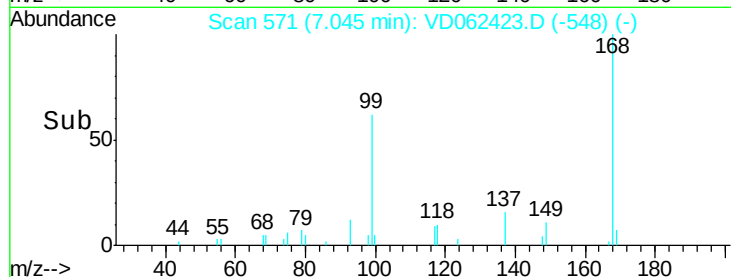
15000

10000

5000

0

Time--> 6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 2.581 ug/l

RT: 2.11 min Scan# 70

Delta R.T. -0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

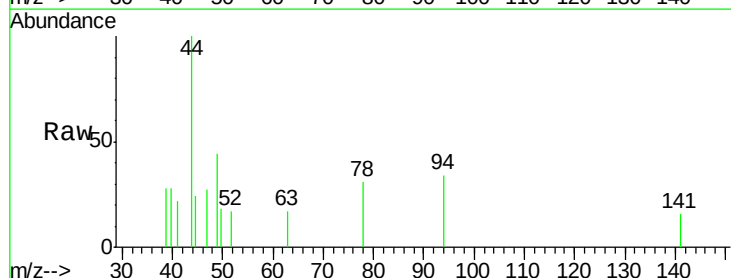
Tgt Ion: 94 Resp: 202

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



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

2.11

800

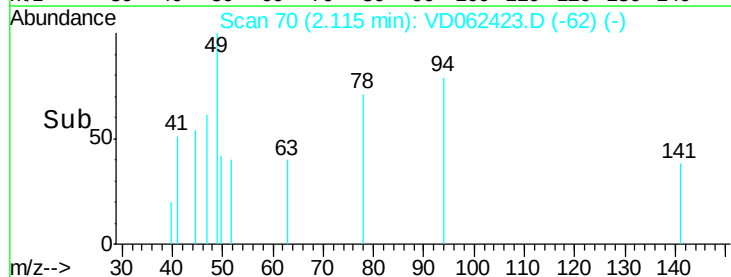
600

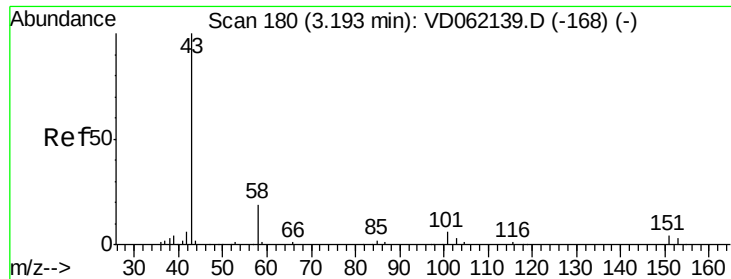
400

200

0

Time--> 2.10 2.11 2.12 2.13





#16

Acetone

Concen: 95.384 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

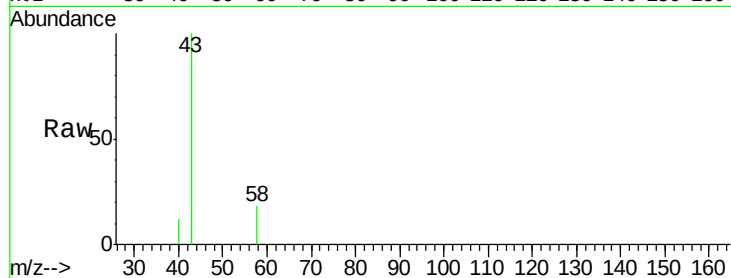
SOIL-COMP

Tot Ion: 43 Resp: 9141

Ion Ratio Lower Upper

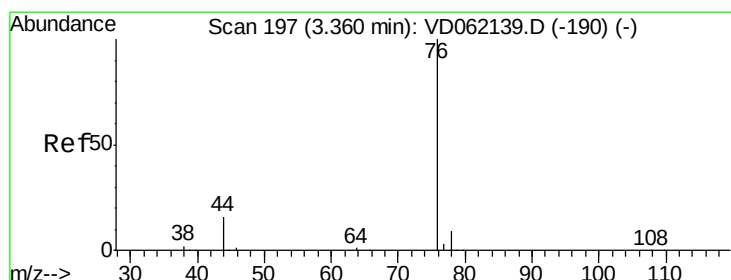
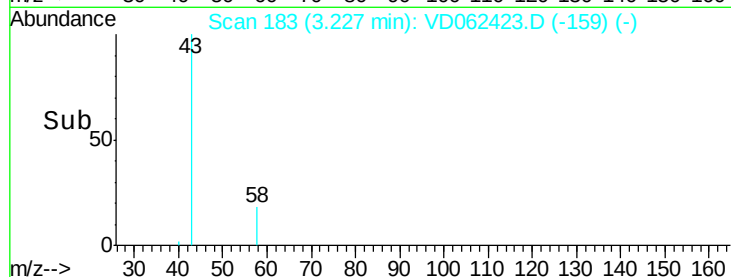
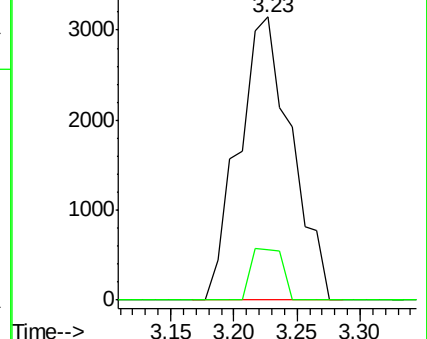
43 100

58 17.7 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 14.999 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.02 min

Lab File: VD062423.D

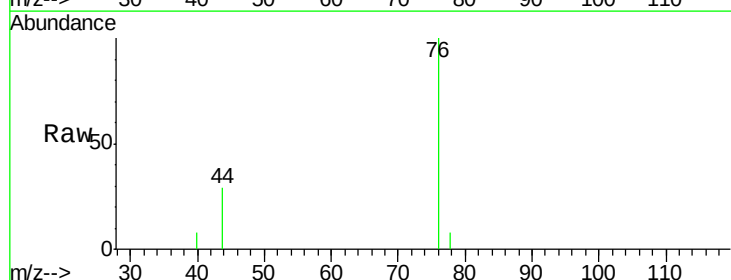
Acq: 16 May 2019 17:53

Tgt Ion: 76 Resp: 16178

Ion Ratio Lower Upper

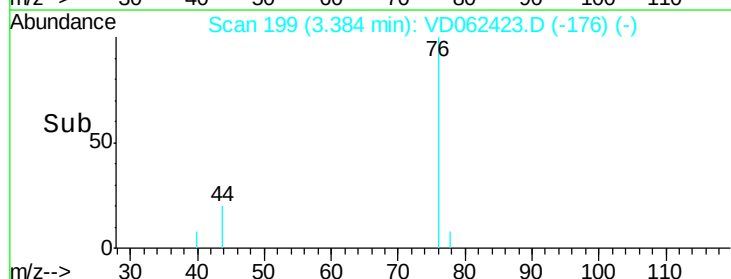
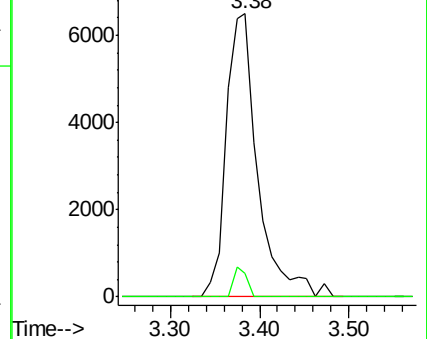
76 100

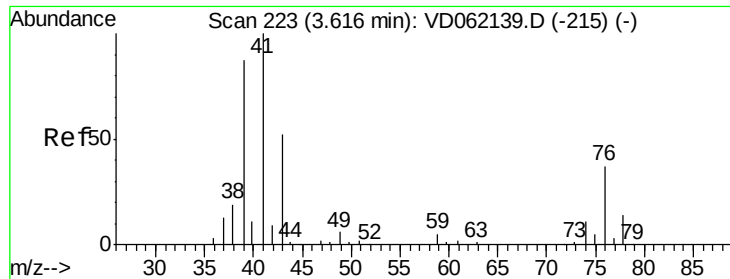
78 8.3 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

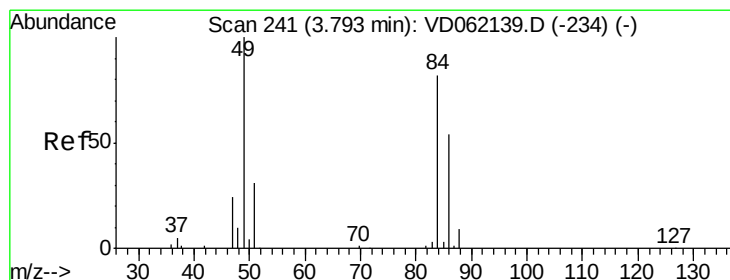
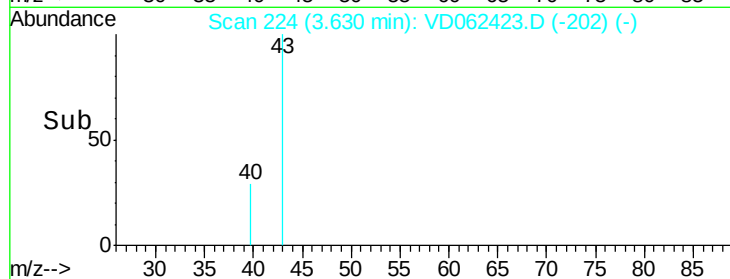
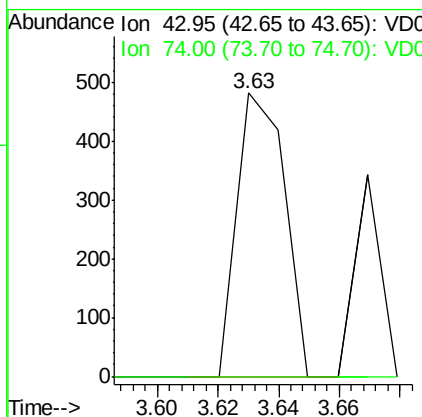
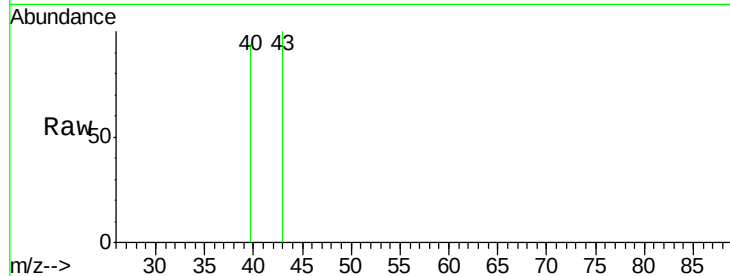




#18
Methyl Acetate
Concen: 2.817 ug/l
RT: 3.63 min Scan# 224
Delta R.T. 0.01 min
Lab File: VD062423.D
Acq: 16 May 2019 17:53

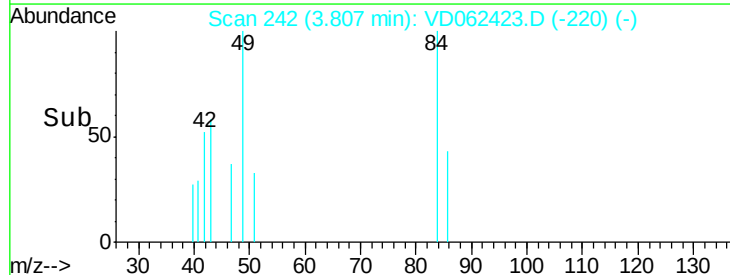
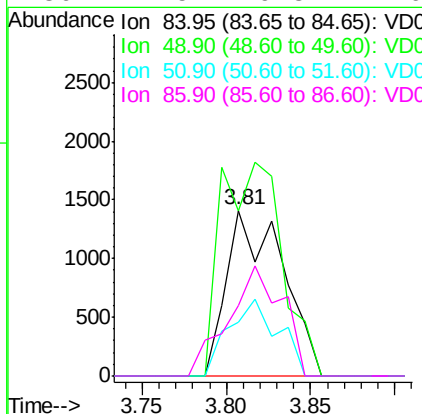
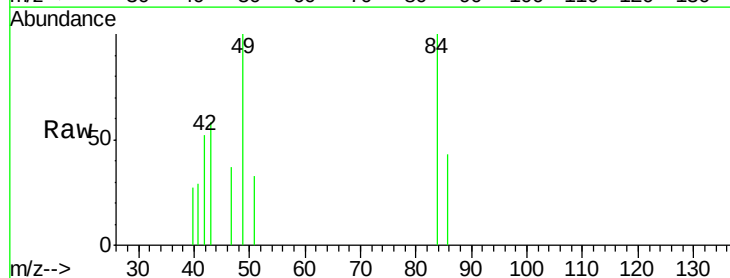
Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMP

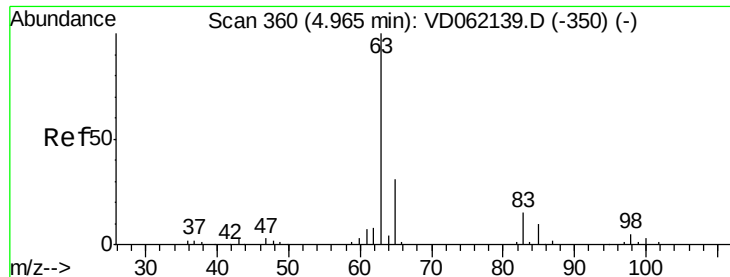
Tot Ion: 43 Resp: 532
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 8.150 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD062423.D
Acq: 16 May 2019 17:53

Tgt Ion: 84 Resp: 3261
Ion Ratio Lower Upper
84 100
49 99.9 94.0 141.0
51 32.7 29.0 43.4
86 42.5 49.8 74.6#





#24

1,1-Dichloroethane

Concen: 2.283 ug/l

RT: 4.99 min Scan# 362

Delta R.T. 0.02 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

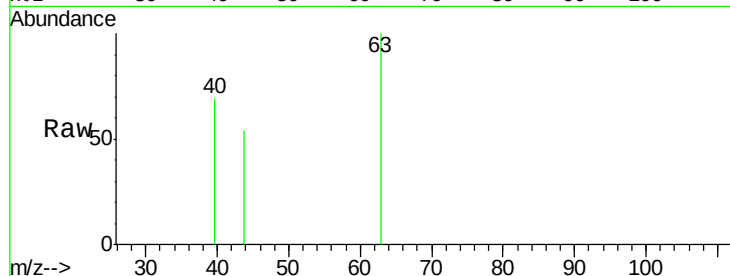
Tot Ion: 63 Resp: 1598

Ion Ratio Lower Upper

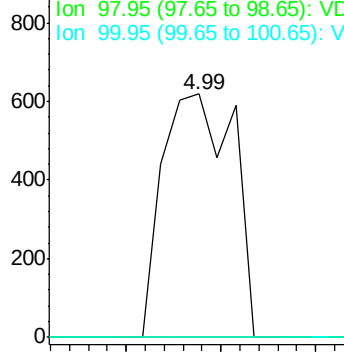
63 100

98 0.0 2.8 8.4#

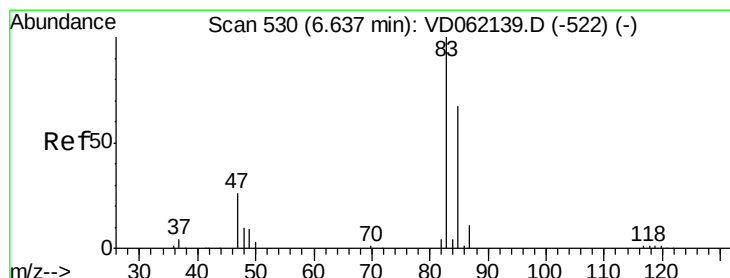
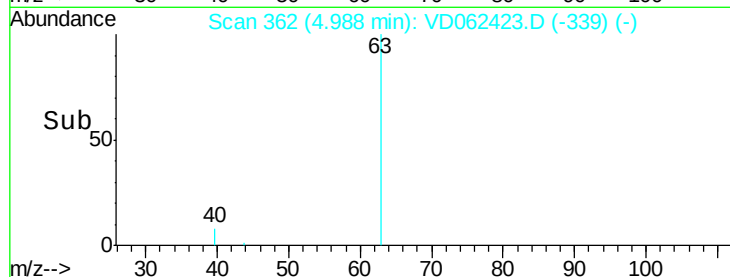
100 0.0 1.8 5.5#



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



Time-->



#30

Chloroform

Concen: 1.027 ug/l

RT: 6.67 min Scan# 533

Delta R.T. 0.03 min

Lab File: VD062423.D

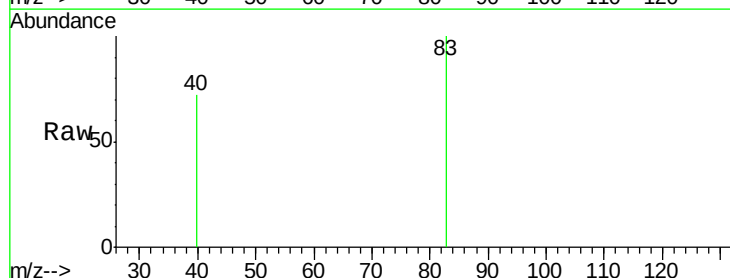
Acq: 16 May 2019 17:53

Tgt Ion: 83 Resp: 866

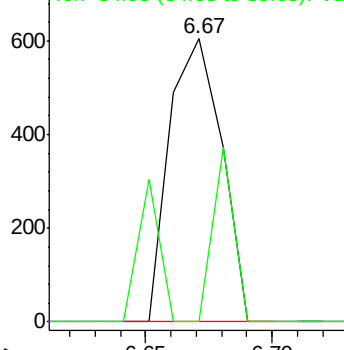
Ion Ratio Lower Upper

83 100

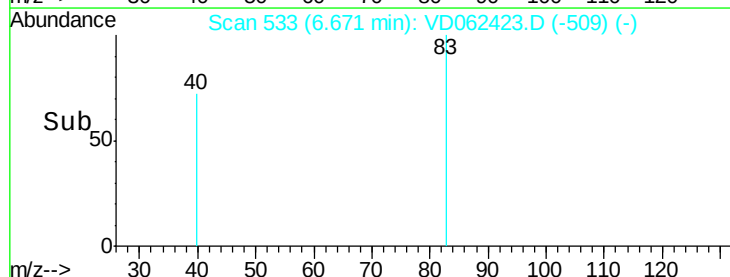
85 0.0 51.7 77.5#

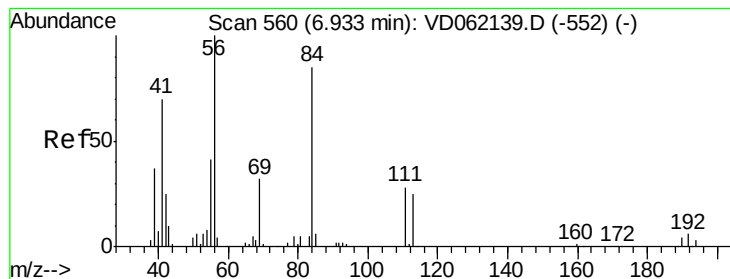


Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC



Time-->





#31

Cvclohexane

Concen: 4.945 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

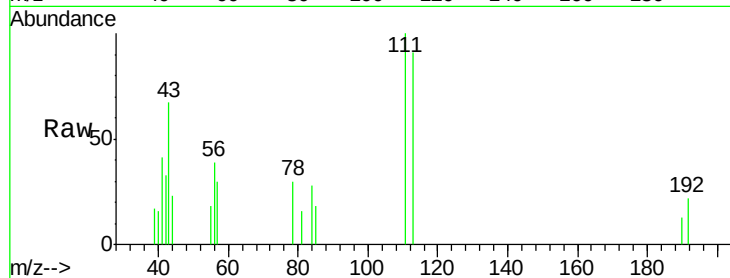
Tot Ion: 56 Resp: 2371

Ion Ratio Lower Upper

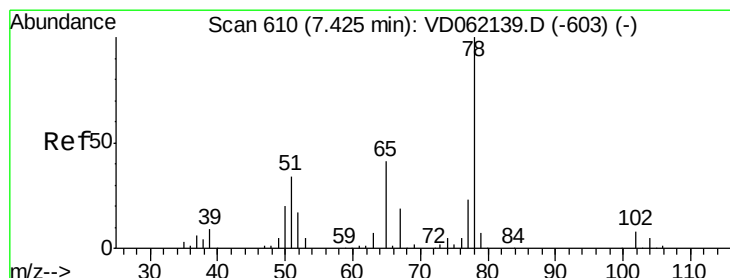
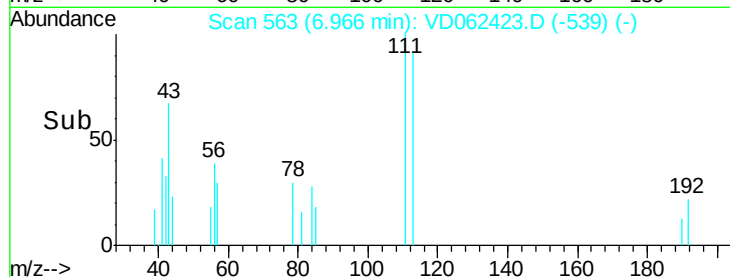
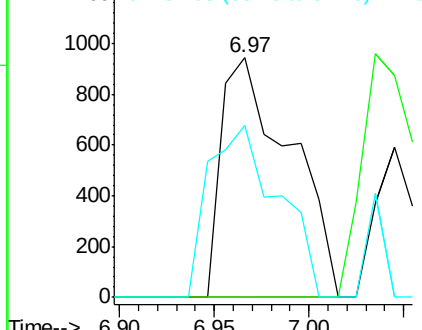
56 100

69 0.0 25.8 38.6#

84 71.6 72.2 108.4#



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: 74.924 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD062423.D

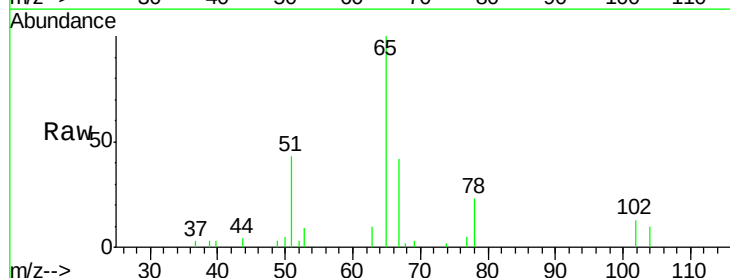
Acq: 16 May 2019 17:53

Tgt Ion: 65 Resp: 34239

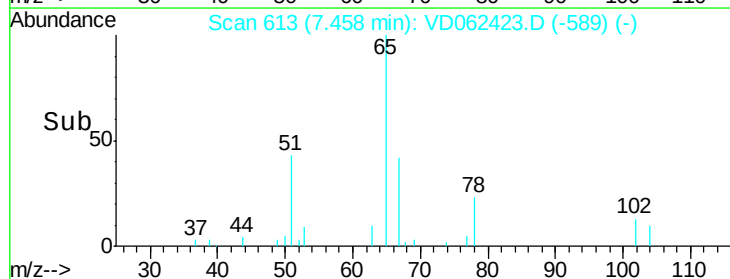
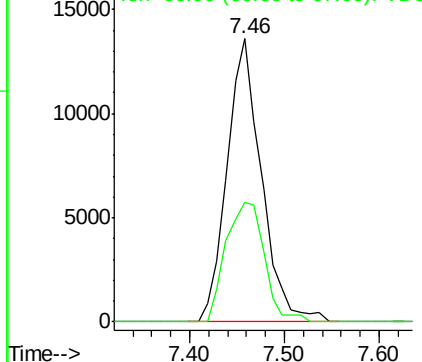
Ion Ratio Lower Upper

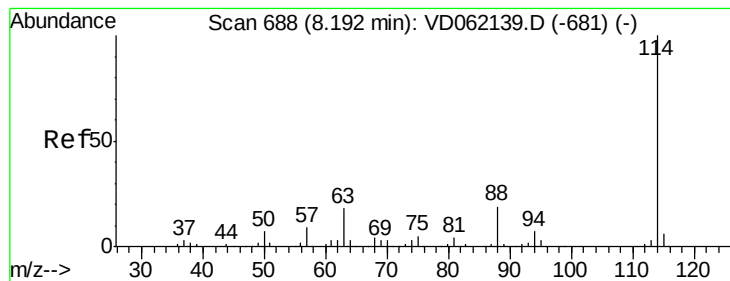
65 100

67 42.2 0.0 98.0



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: 8.22 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

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SOIL-COMP

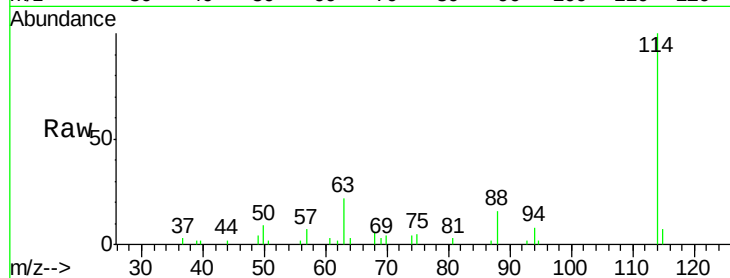
Tot Ion:114 Resp: 57995

Ion Ratio Lower Upper

114 100

63 22.2 0.0 32.4

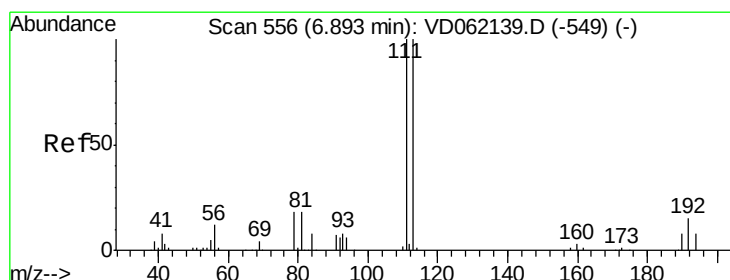
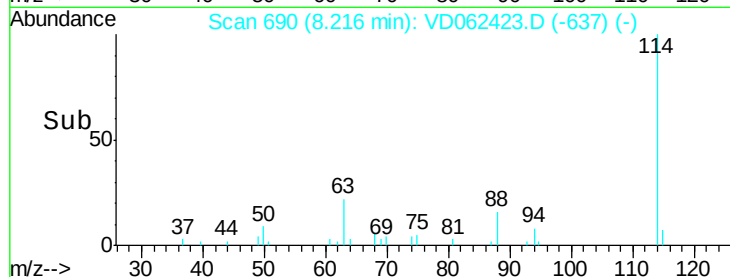
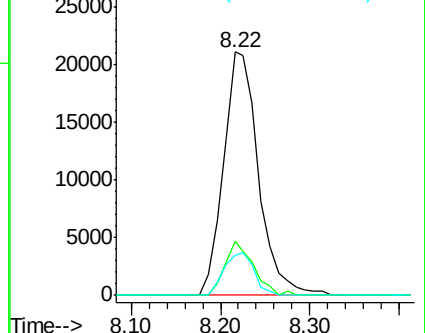
88 16.2 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 85.623 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

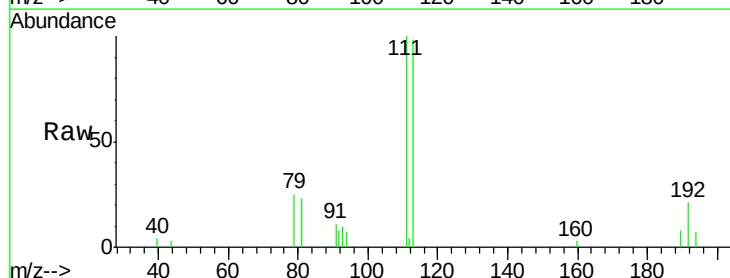
Tgt Ion:113 Resp: 41201

Ion Ratio Lower Upper

113 100

111 102.3 78.5 117.7

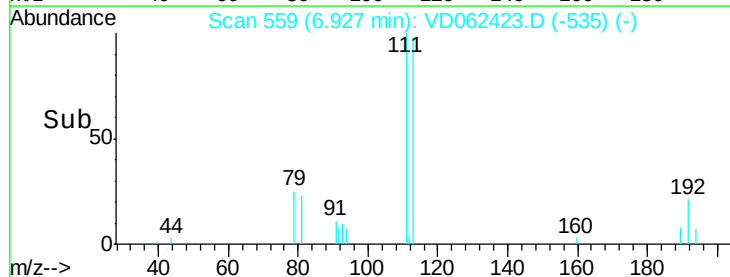
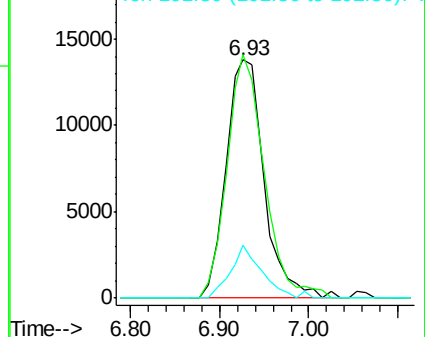
192 22.0 13.0 19.4#

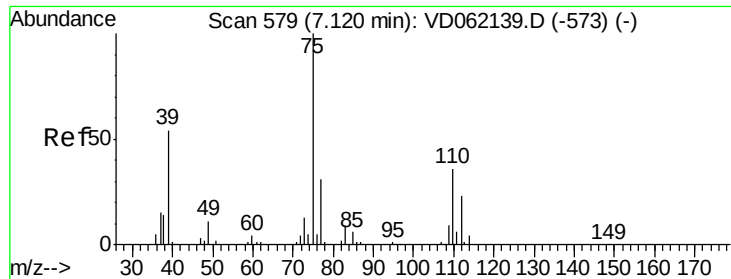


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

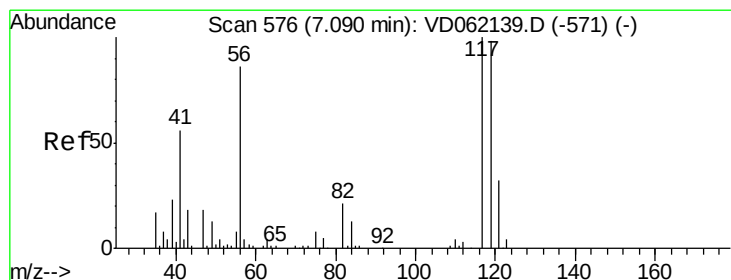
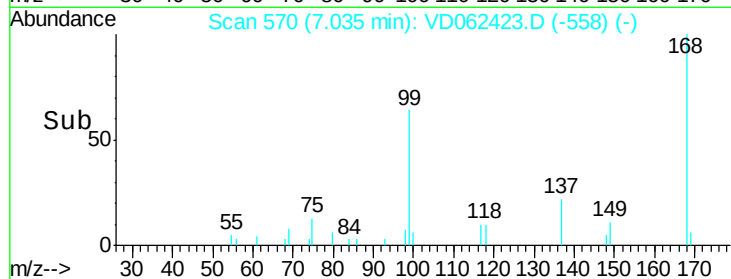
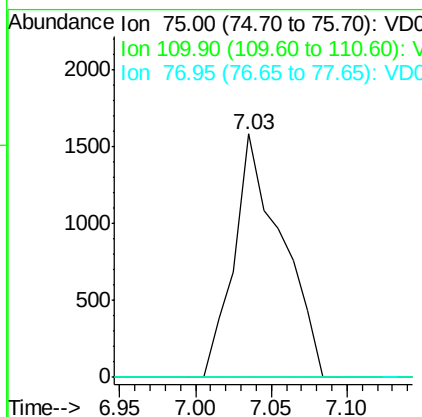
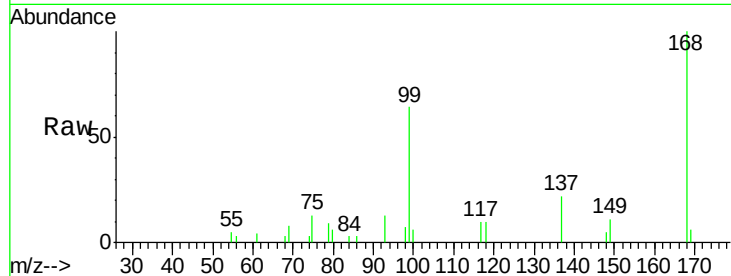




#36
 1,1-Dichloropropene
 Concen: 7.325 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.08 min
 Lab File: VD062423.D
 Acq: 16 May 2019 17:53

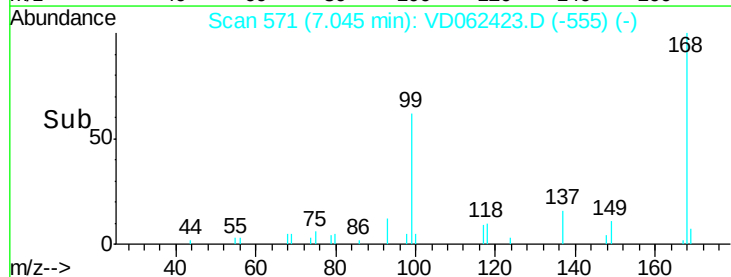
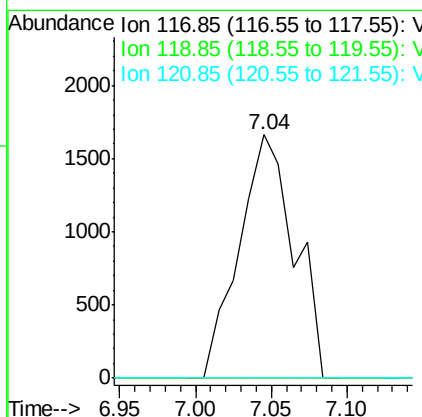
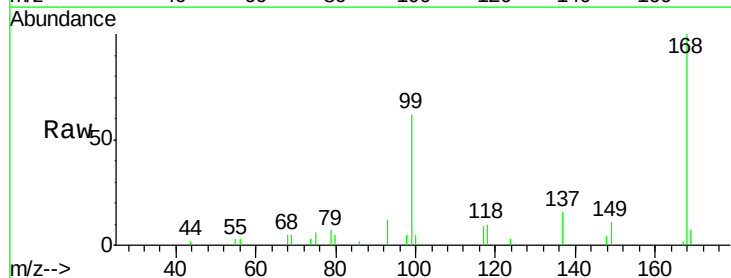
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-COMP

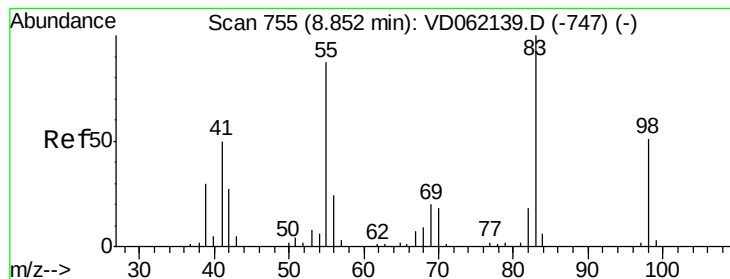
Tot Ion: 75 Resp: 3483
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.1 57.1#
 77 0.0 25.6 38.4#



#38
 Carbon Tetrachloride
 Concen: 6.447 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.05 min
 Lab File: VD062423.D
 Acq: 16 May 2019 17:53

Tgt Ion: 117 Resp: 4243
 Ion Ratio Lower Upper
 117 100
 119 0.0 75.8 113.8#
 121 0.0 25.9 38.9#





#39

Methylvlcyclohexane

Concen: 6.317 ug/l

RT: 8.87 min Scan# 756

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

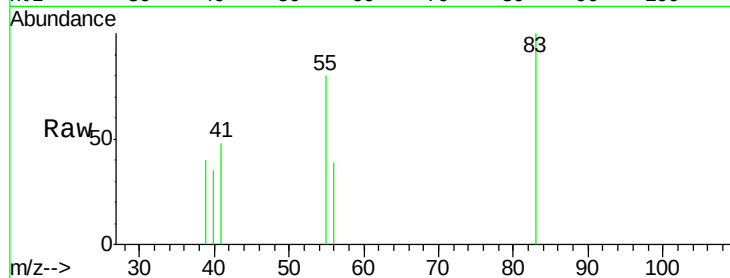
Tot Ion: 83 Resp: 2878

Ion Ratio Lower Upper

83 100

55 79.7 68.2 102.4

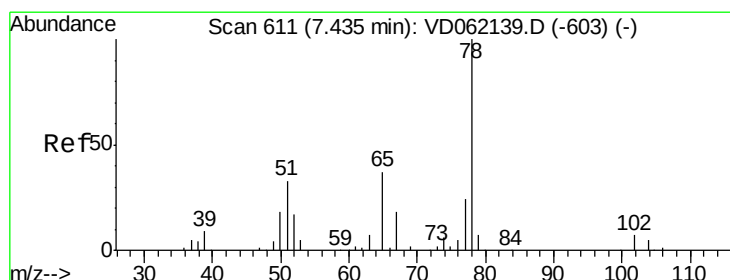
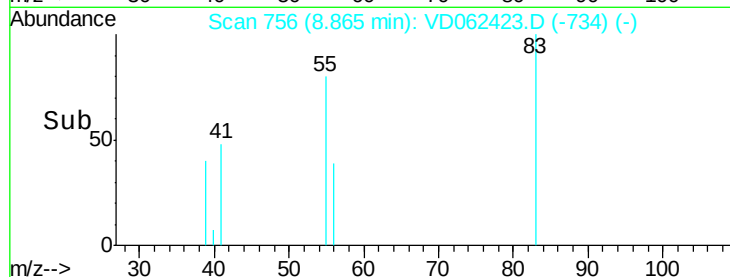
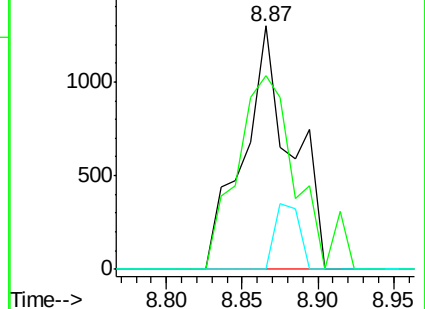
98 0.0 38.2 57.4#



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 8.114 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.03 min

Lab File: VD062423.D

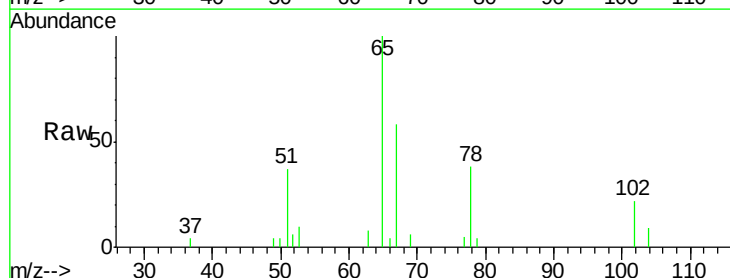
Acq: 16 May 2019 17:53

Tgt Ion: 78 Resp: 8712

Ion Ratio Lower Upper

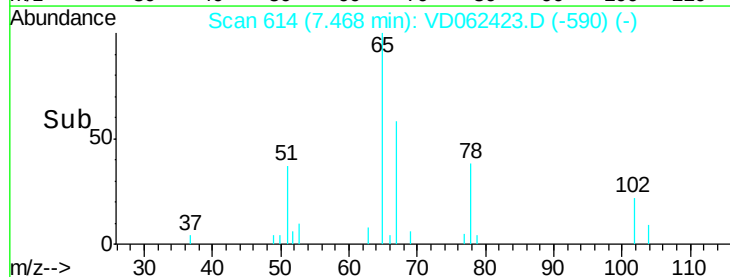
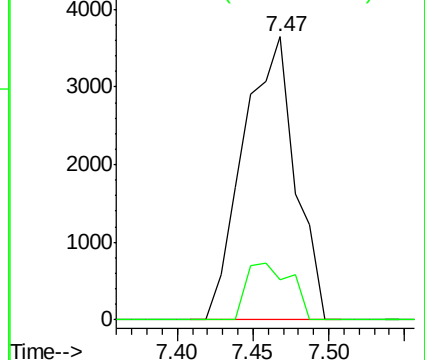
78 100

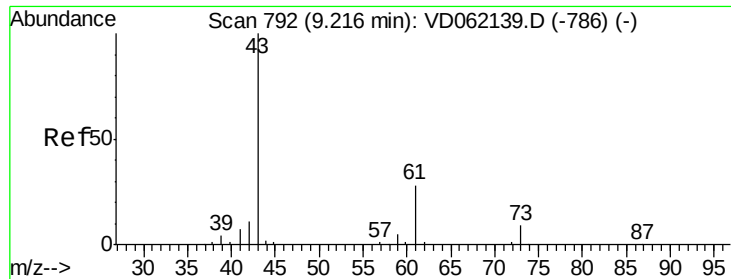
77 14.2 19.7 29.5#



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#43

Isopropyl Acetate

Concen: 6.769 ug/l

RT: 9.02 min Scan# 772

Delta R.T. -0.19 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

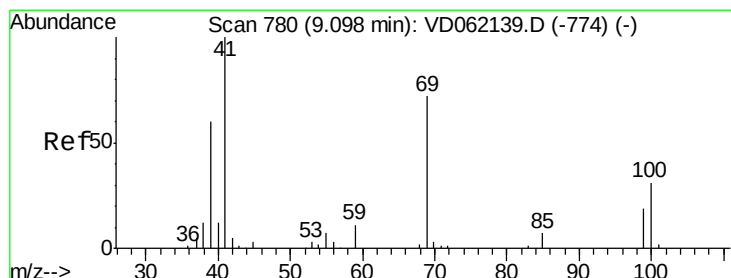
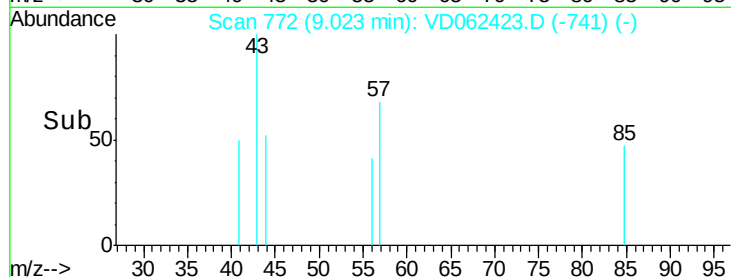
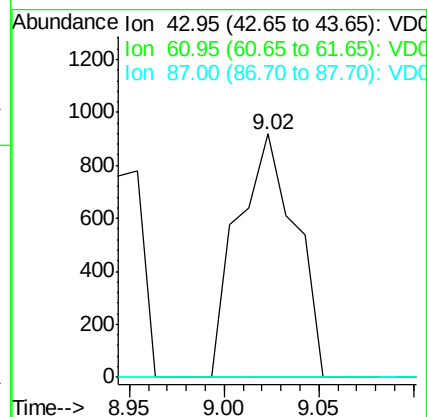
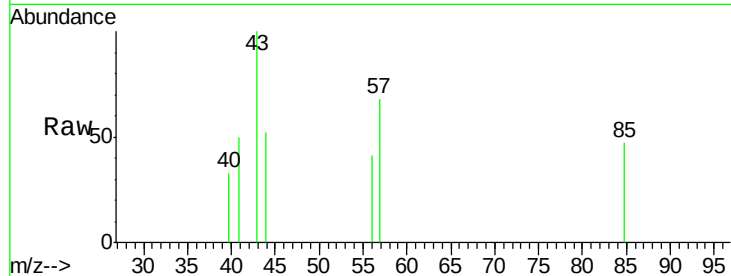
Tot Ion: 43 Resp: 1936

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

87 0.0 0.0 0.0



#48

Methyl methacrylate

Concen: 6.835 ug/l

RT: 9.02 min Scan# 772

Delta R.T. -0.07 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

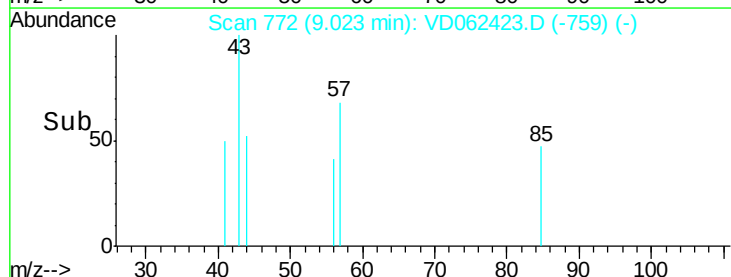
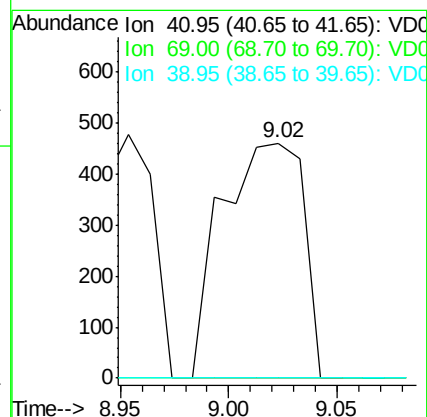
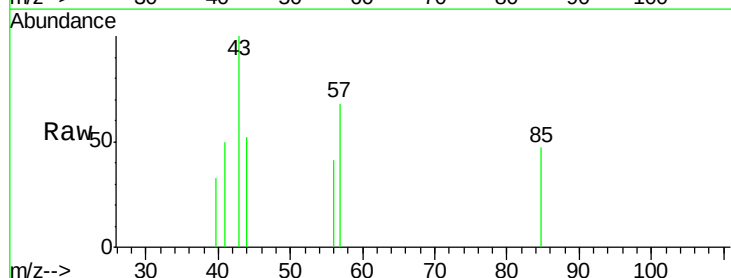
Tgt Ion: 41 Resp: 1204

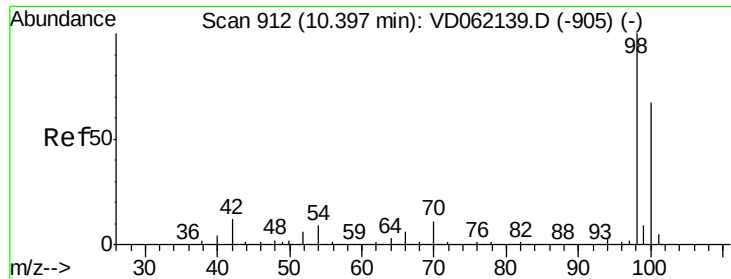
Ion Ratio Lower Upper

41 100

69 0.0 64.2 96.2#

39 0.0 46.8 70.2#





#50

Toluene-d8

Concen: 15.241 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

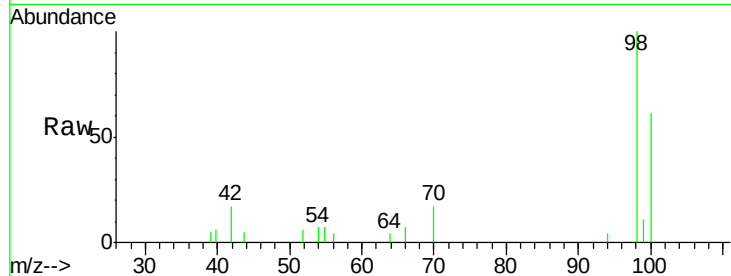
SOIL-COMP

Tot Ion: 98 Resp: 17682

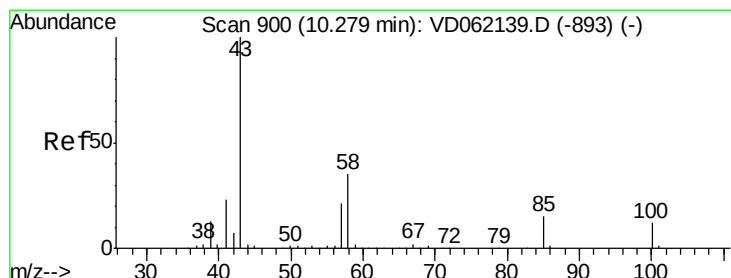
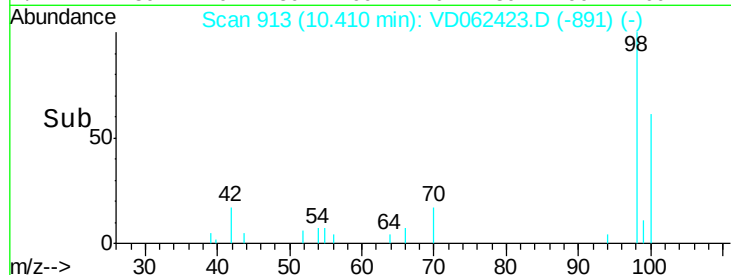
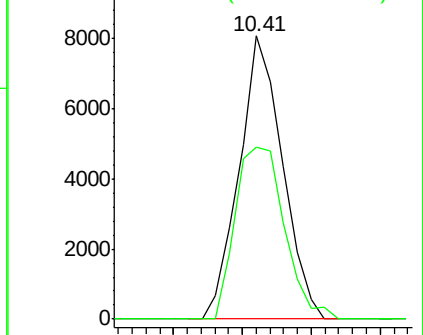
Ion Ratio Lower Upper

98 100

100 61.0 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.034 ug/l

RT: 10.35 min Scan# 907

Delta R.T. 0.07 min

Lab File: VD062423.D

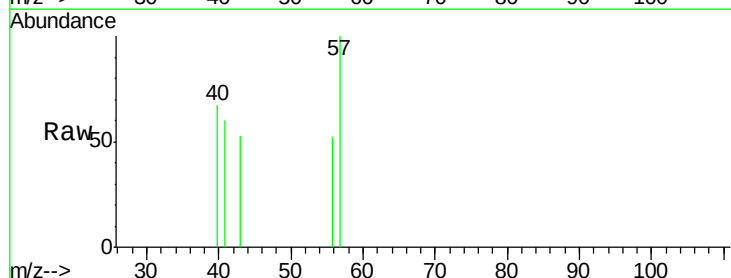
Acq: 16 May 2019 17:53

Tgt Ion: 43 Resp: 190

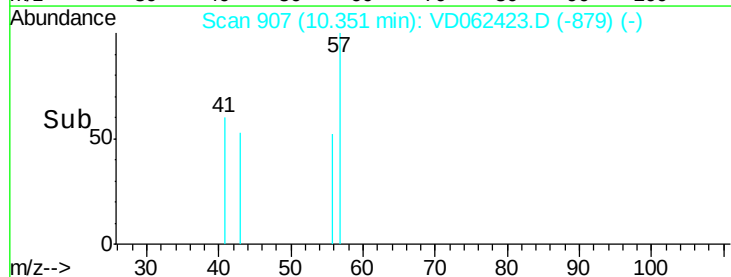
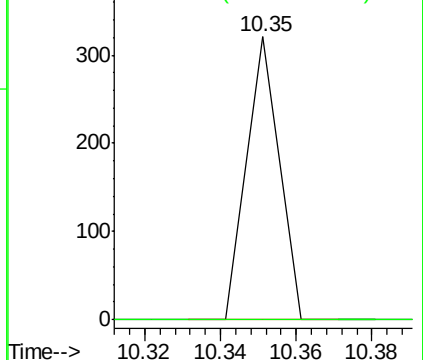
Ion Ratio Lower Upper

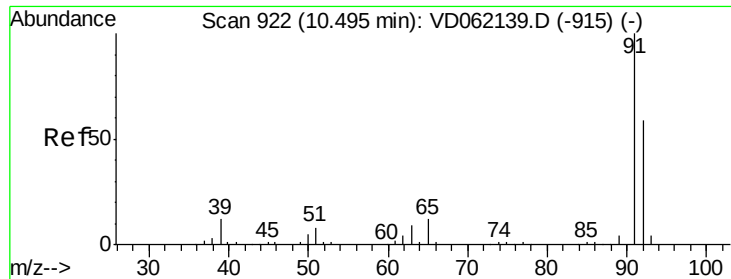
43 100

58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD062139.D (-893) (-)





#52

Toluene

Concen: 4.430 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

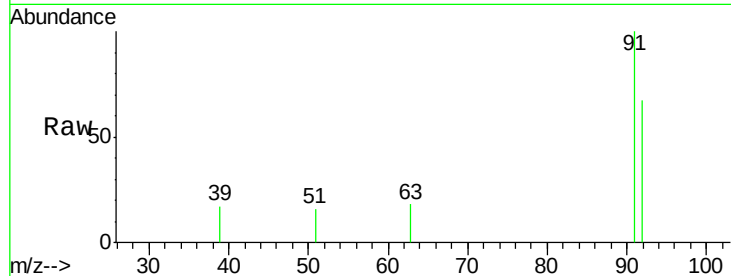
SOIL-COMP

Tot Ion: 92 Resp: 3095

Ion Ratio Lower Upper

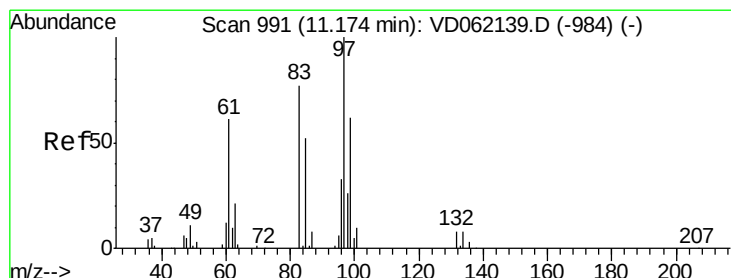
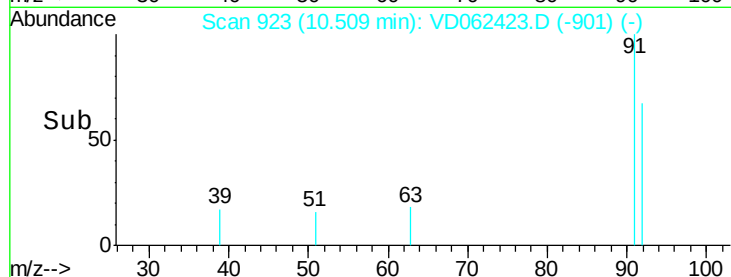
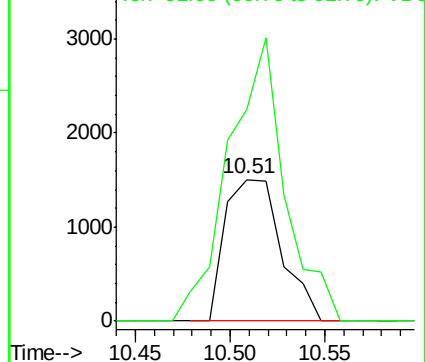
92 100

91 148.9 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 2.884 ug/l

RT: 11.10 min Scan# 983

Delta R.T. -0.07 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Tgt Ion: 97 Resp: 713

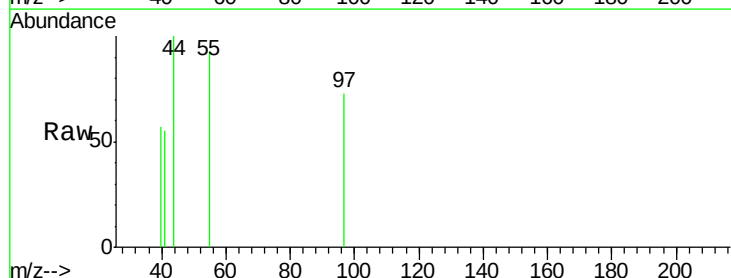
Ion Ratio Lower Upper

97 100

83 0.0 65.7 98.5#

85 0.0 45.6 68.4#

99 0.0 48.4 72.6#

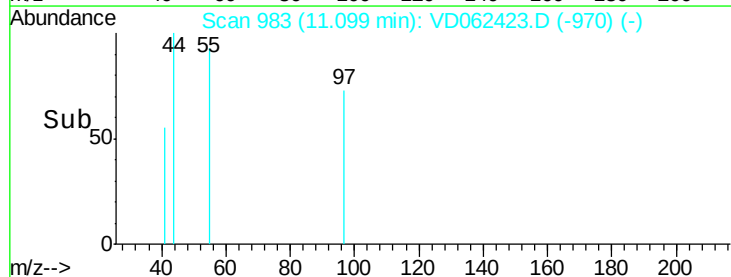
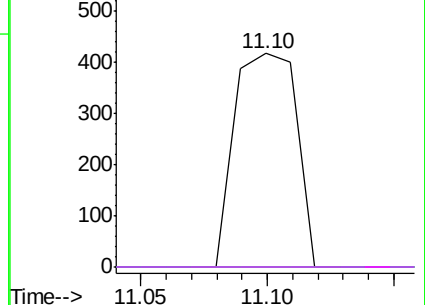


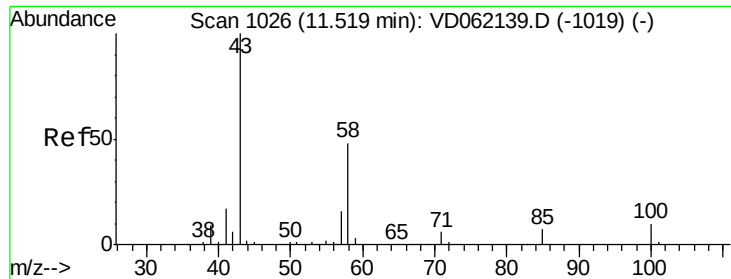
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC





#59

2-Hexanone

Concen: 10.111 ug/l

RT: 11.49 min Scan# 1023

Delta R.T. -0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

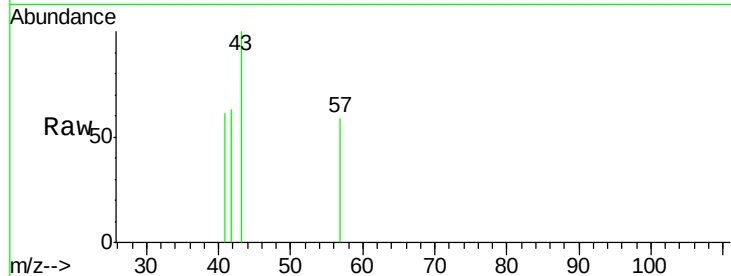
SOIL-COMP

Tot Ion: 43 Resp: 1370

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

11.49

800

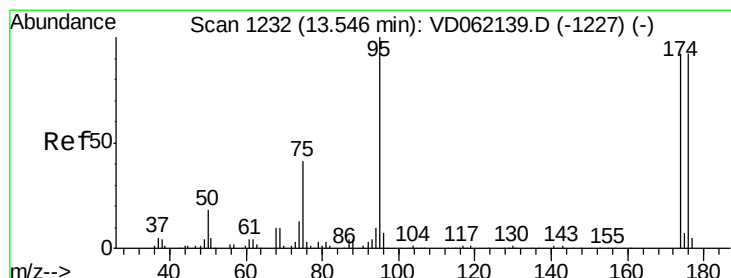
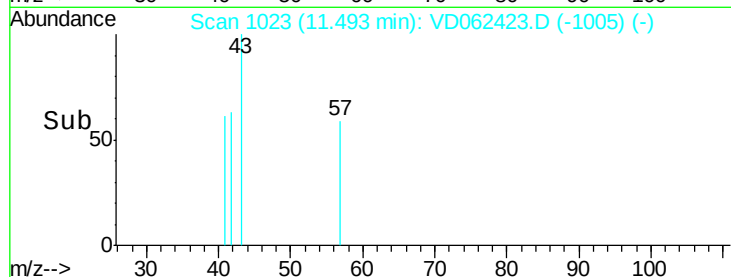
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 6.111 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

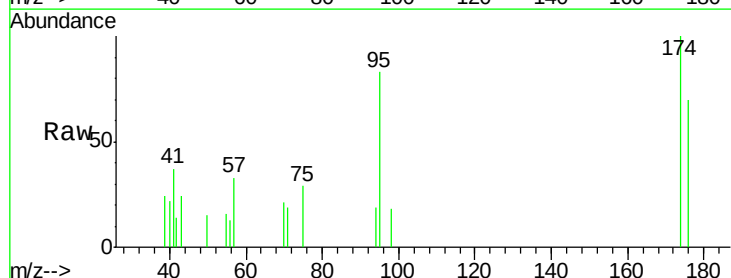
Tgt Ion: 95 Resp: 2847

Ion Ratio Lower Upper

95 100

174 120.5 0.0 181.8

176 84.6 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

3000

2500

2000

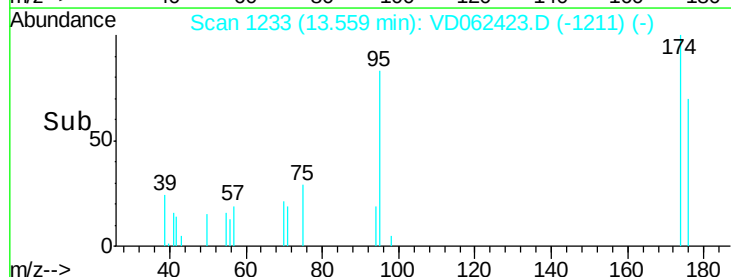
1500

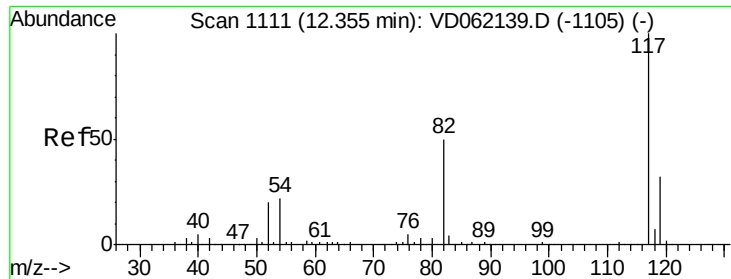
1000

500

0

Time-->

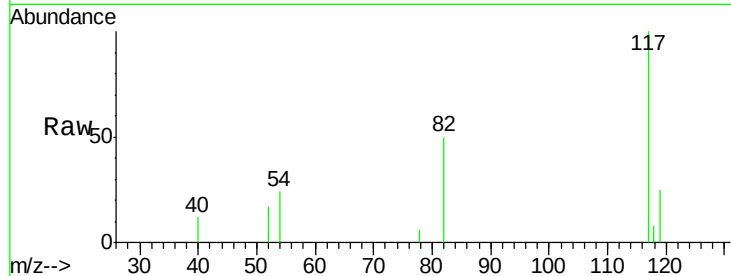




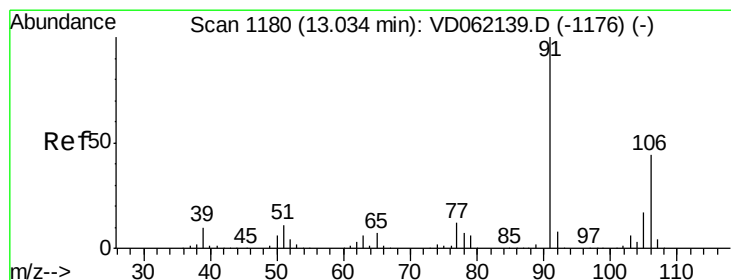
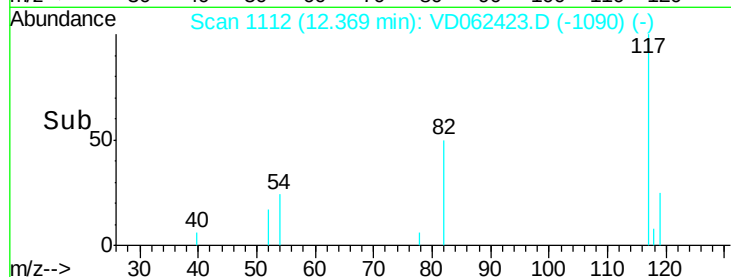
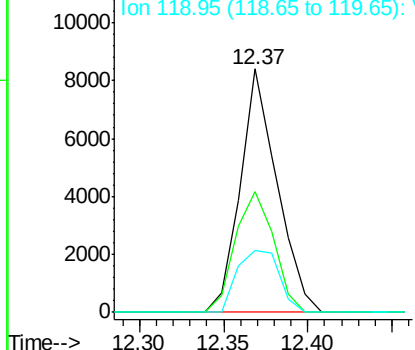
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062423.D
Acq: 16 May 2019 17:53

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMP

Tot Ion:117 Resp: 12728
Ion Ratio Lower Upper
117 100
82 49.6 36.2 54.2
119 25.2 26.2 39.4#

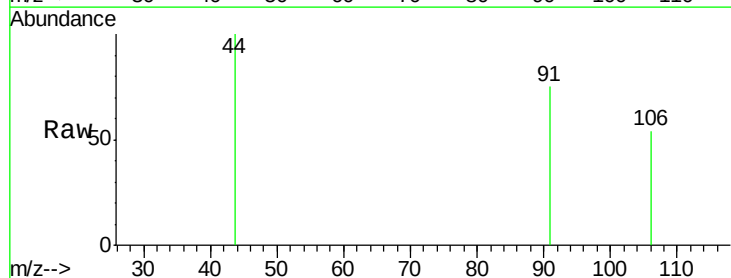


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

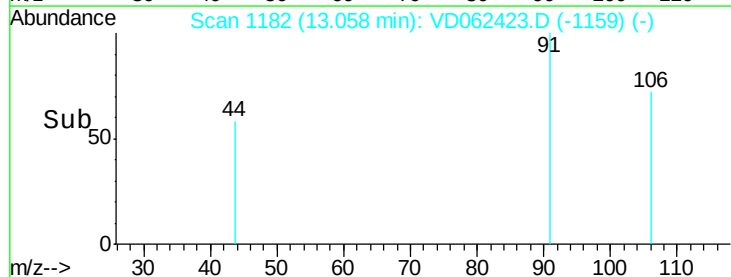
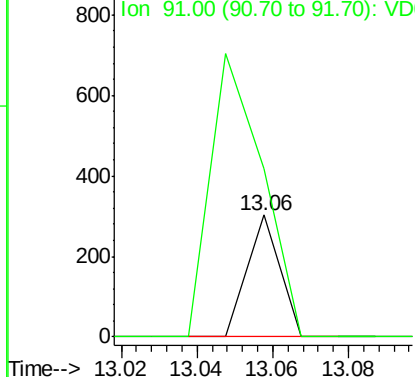


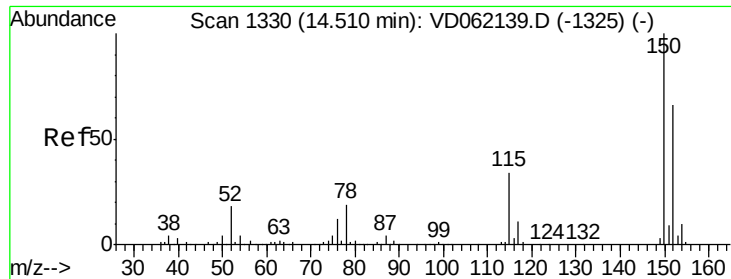
#69
o-Xylene
Concen: 1.326 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD062423.D
Acq: 16 May 2019 17:53

Tgt Ion:106 Resp: 178
Ion Ratio Lower Upper
106 100
91 138.4 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

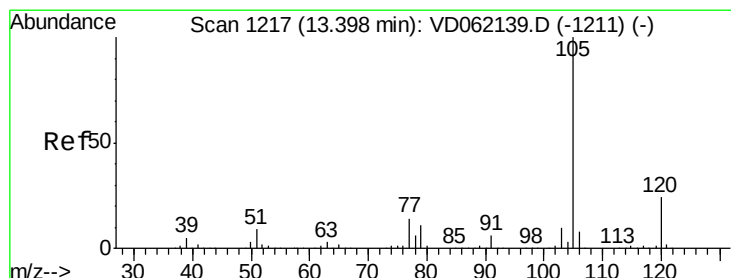
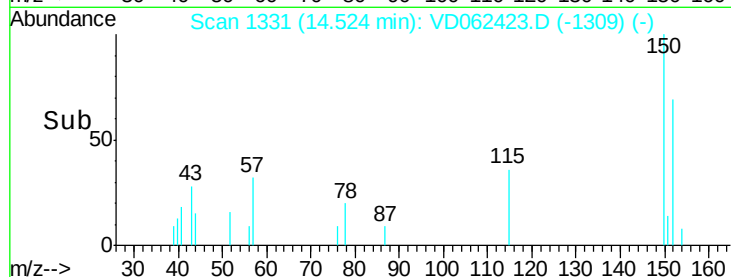
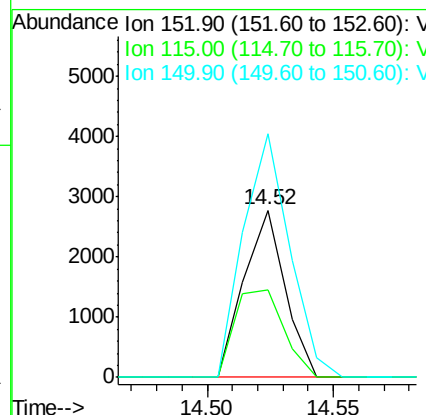
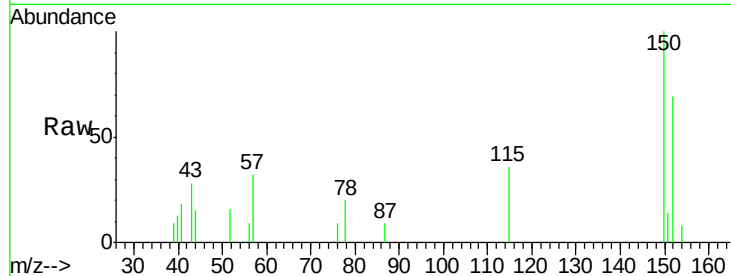




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. 0.01 min
 Lab File: VD062423.D
 Acq: 16 May 2019 17:53

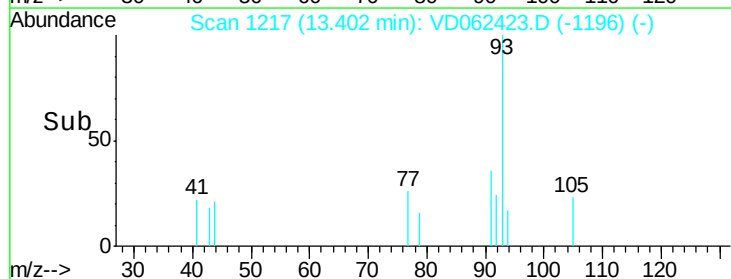
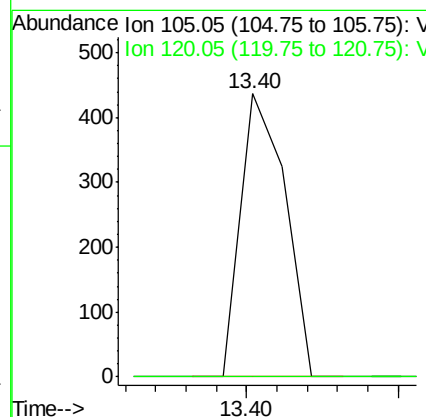
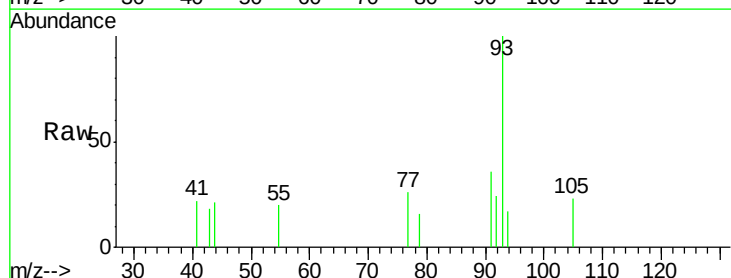
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-COMP

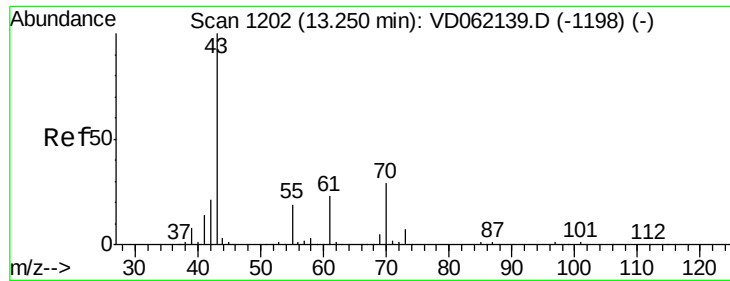
Tot Ion:152 Resp: 3139
 Ion Ratio Lower Upper
 152 100
 115 52.4 30.9 92.7
 150 145.8 0.0 314.8



#73
 Isopropylbenzene
 Concen: 2.392 ug/l
 RT: 13.40 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VD062423.D
 Acq: 16 May 2019 17:53

Tgt Ion:105 Resp: 450
 Ion Ratio Lower Upper
 105 100
 120 0.0 12.0 36.1#





#74

N-amvl acetate

Concen: 25.257 ug/l

RT: 13.22 min Scan# 1199

Delta R.T. -0.03 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

Tot Ion: 43 Resp: 1246

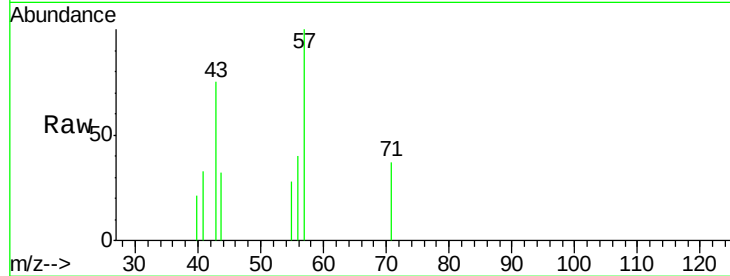
Ion Ratio Lower Upper

43 100

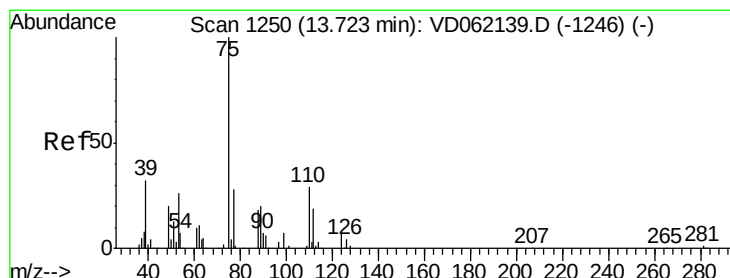
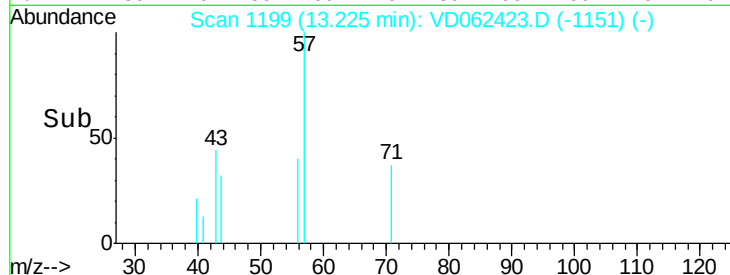
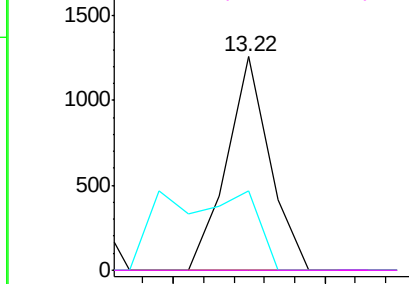
70 0.0 24.2 36.4#

55 37.2 16.0 24.0#

61 0.0 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC



#76

1,2,3-Trichloropropane

Concen: 28.870 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062423.D

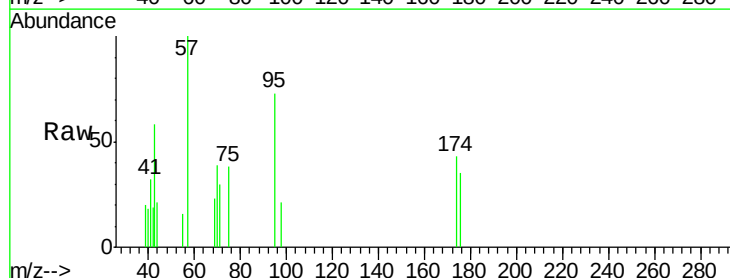
Acq: 16 May 2019 17:53

Tgt Ion: 75 Resp: 1077

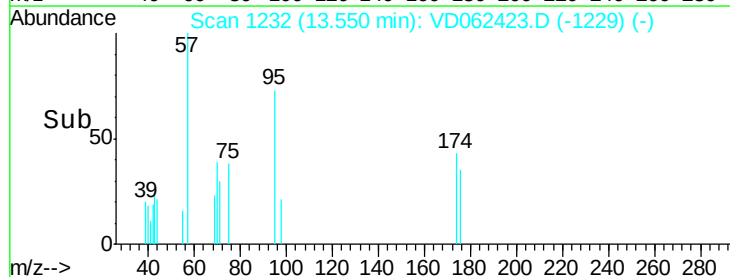
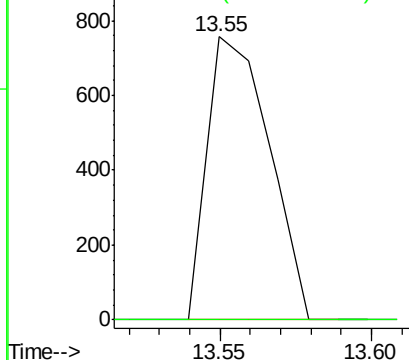
Ion Ratio Lower Upper

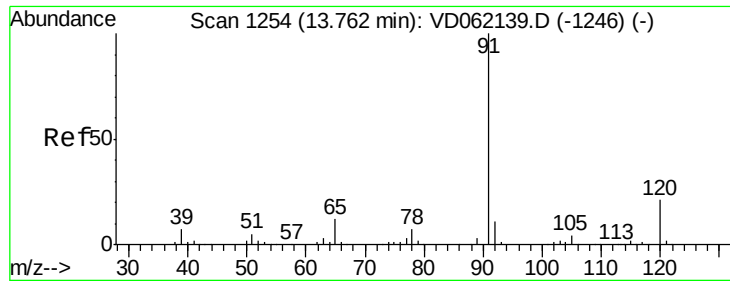
75 100

77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#78

n-propylbenzene

Concen: 10.759 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

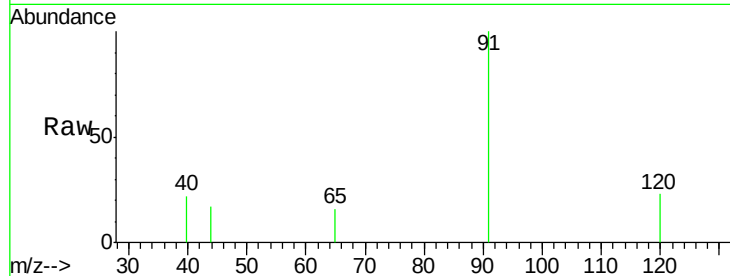
SOIL-COMP

Tot Ion: 91 Resp: 2415

Ion Ratio Lower Upper

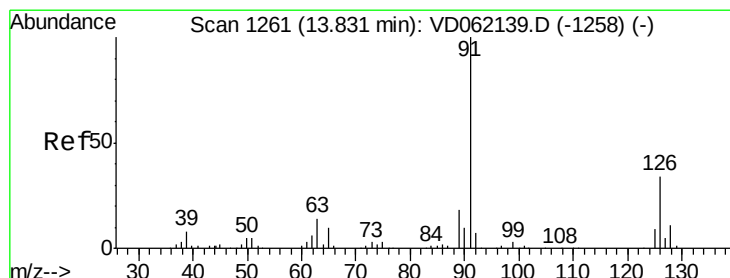
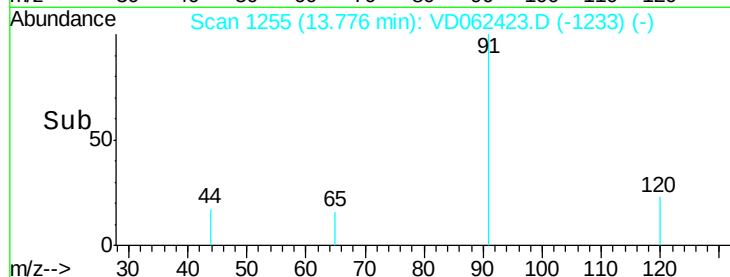
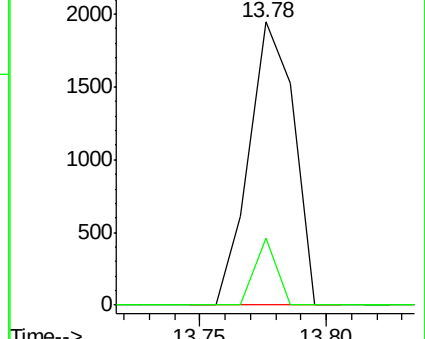
91 100

120 23.5 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC



#79

2-Chlorotoluene

Concen: 18.787 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.06 min

Lab File: VD062423.D

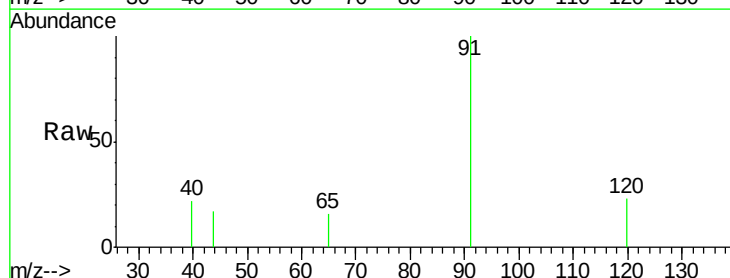
Acq: 16 May 2019 17:53

Tgt Ion: 91 Resp: 2415

Ion Ratio Lower Upper

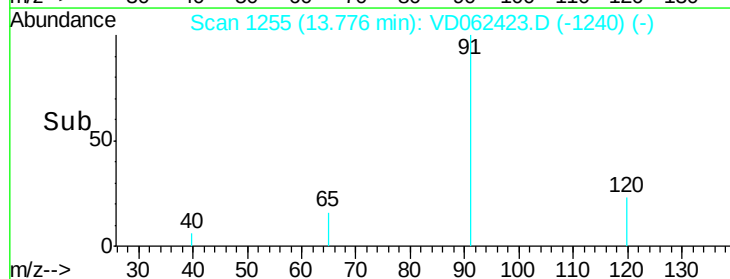
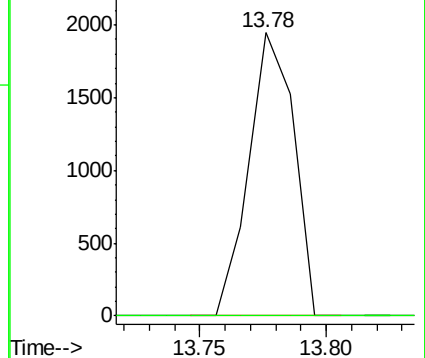
91 100

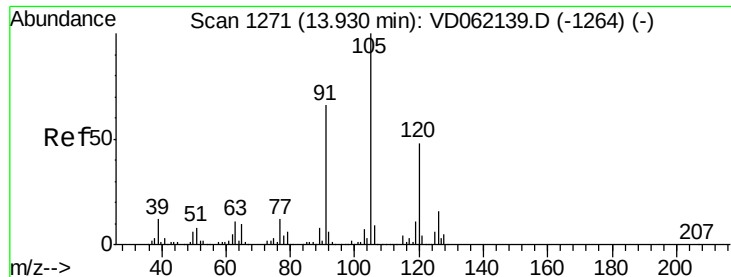
126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC





#80

1,3,5-Trimethylbenzene

Concen: 2.341 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

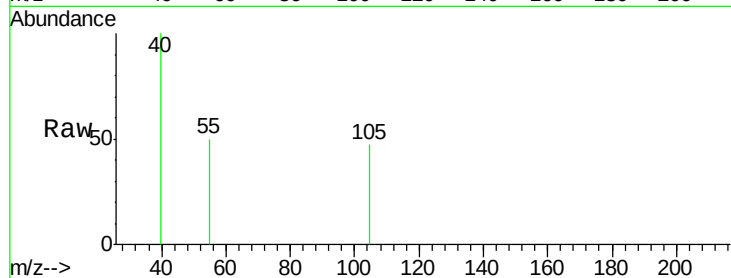
SOIL-COMP

Tot Ion:105 Resp: 371

Ion Ratio Lower Upper

105 100

120 0.0 24.0 72.0#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.94

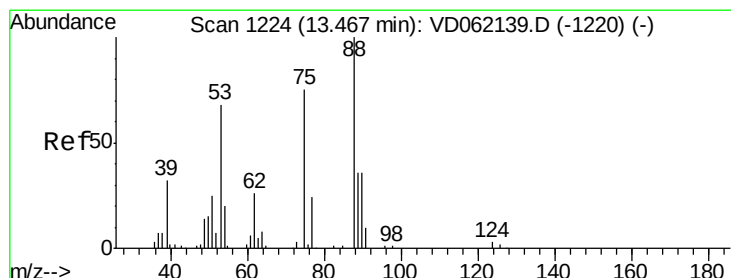
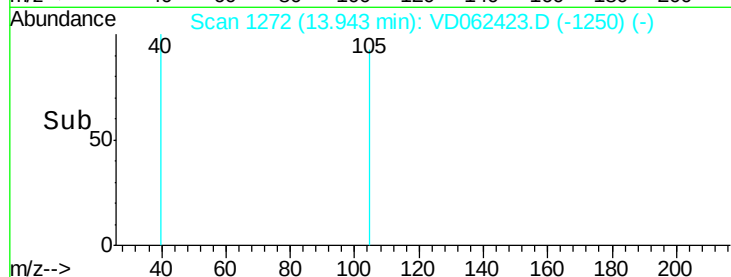
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 102.267 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

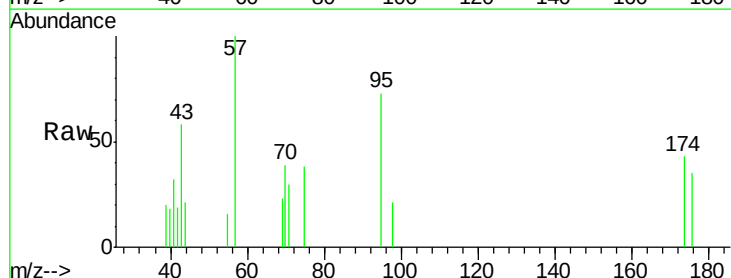
Tgt Ion: 75 Resp: 1077

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

13.55

1000

800

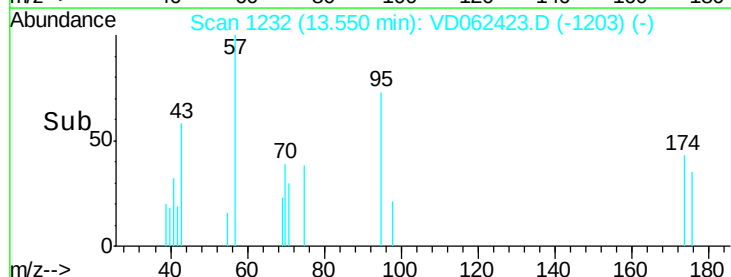
600

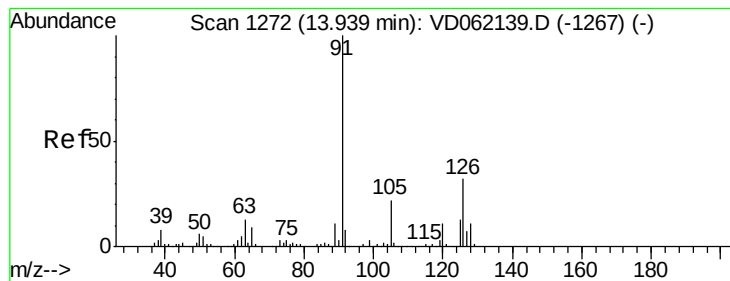
400

200

0

Time-->





#82

4-Chlorotoluene

Concen: 1.930 ug/l

RT: 13.98 min Scan# 1276

Delta R.T. 0.04 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

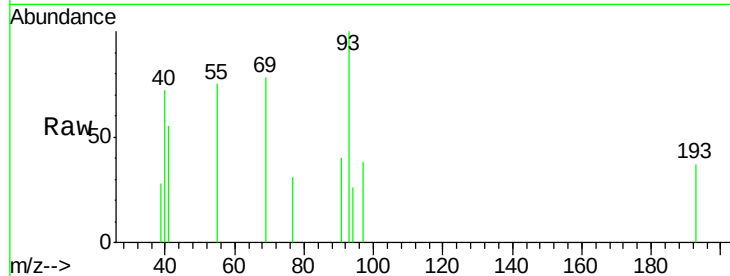
SOIL-COMP

Tot Ion: 91 Resp: 292

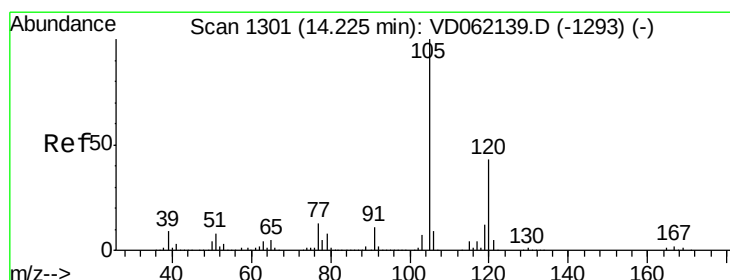
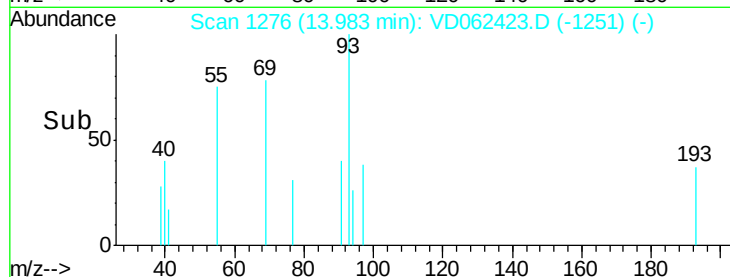
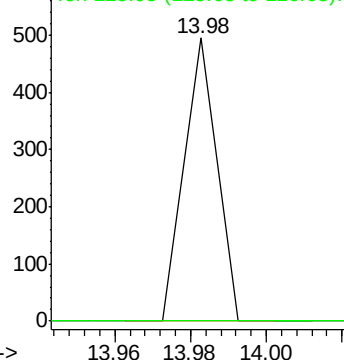
Ion Ratio Lower Upper

91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): V



#84

1,2,4-Trimethylbenzene

Concen: 5.415 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD062423.D

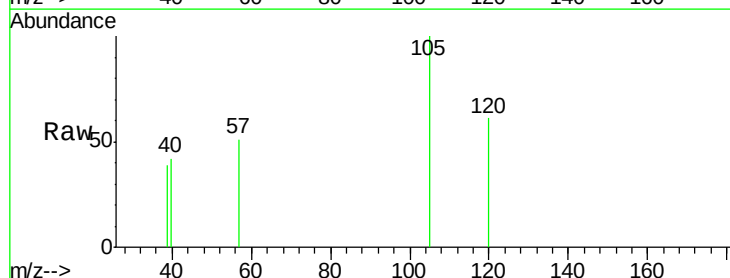
Acq: 16 May 2019 17:53

Tgt Ion: 105 Resp: 861

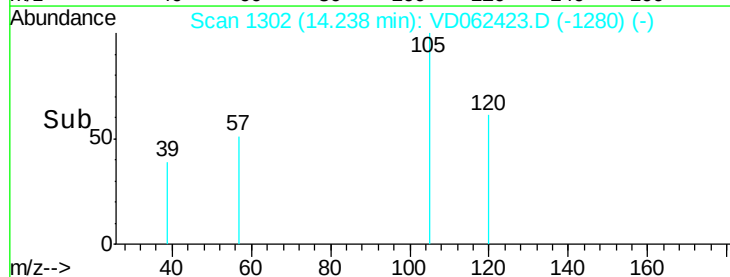
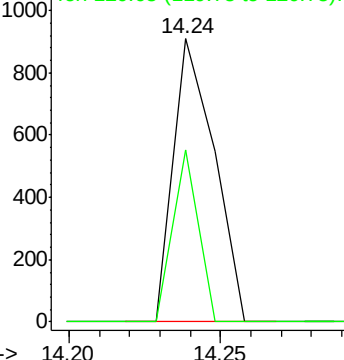
Ion Ratio Lower Upper

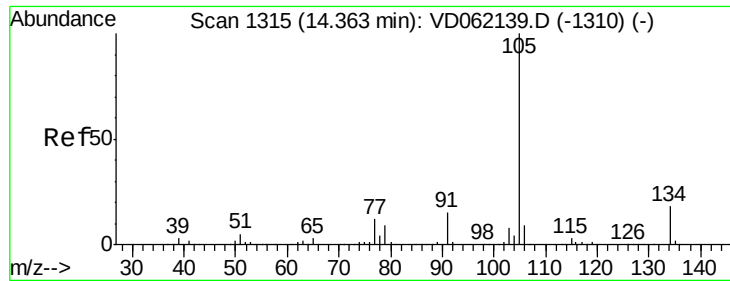
105 100

120 60.8 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V





#85

sec-Butylbenzene

Concen: 6.673 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

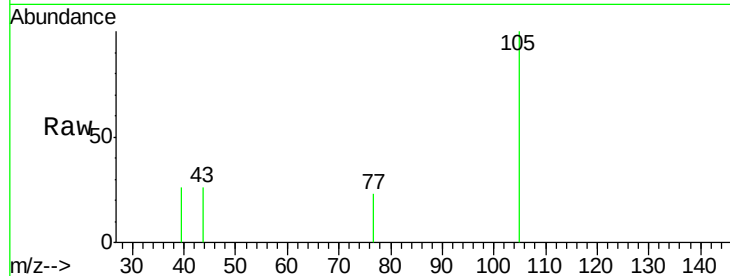
SOIL-COMP

Tot Ion:105 Resp: 1303

Ion Ratio Lower Upper

105 100

134 0.0 8.9 26.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.37

1500

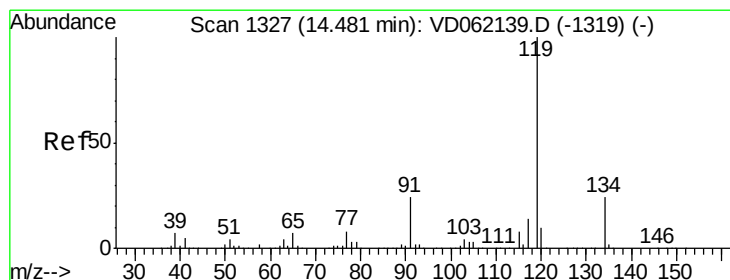
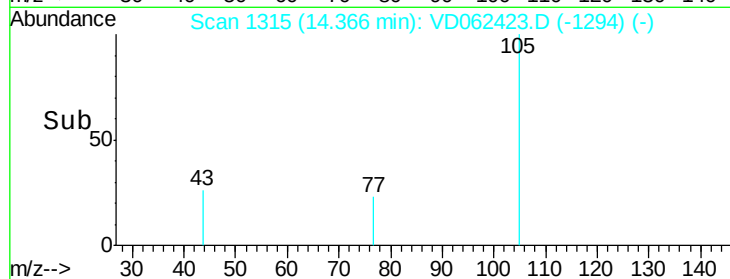
1000

500

0

14.35 14.40

Time-->



#86

p-Isopropyltoluene

Concen: 1.112 ug/l

RT: 14.48 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

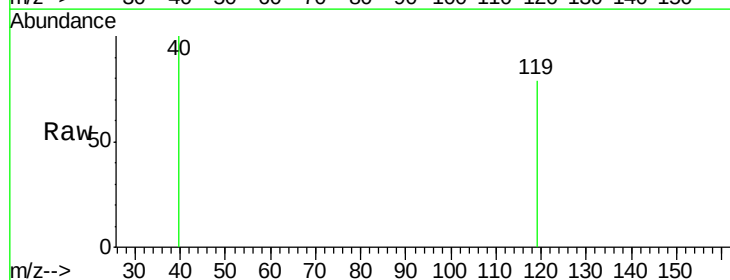
Tgt Ion:119 Resp: 194

Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.3#

91 0.0 10.7 32.1#



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.48

400

300

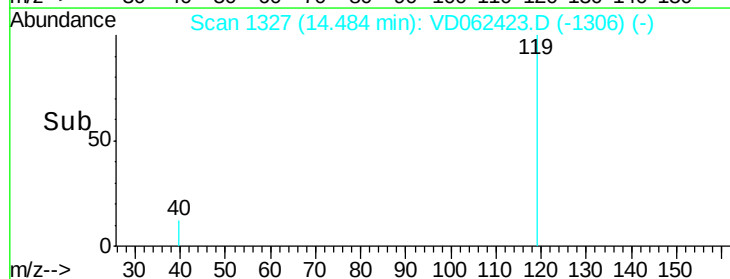
200

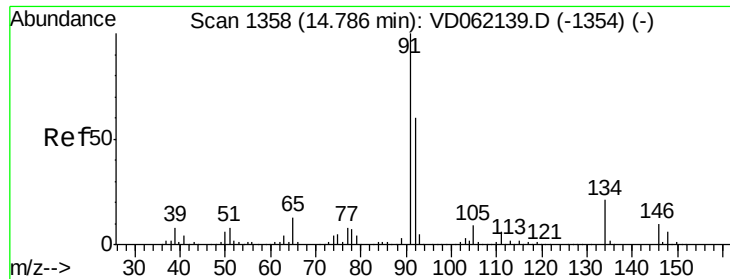
100

0

14.46 14.48 14.50

Time-->





#89

n-Butylbenzene

Concen: 18.207 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleID :

SOIL-COMP

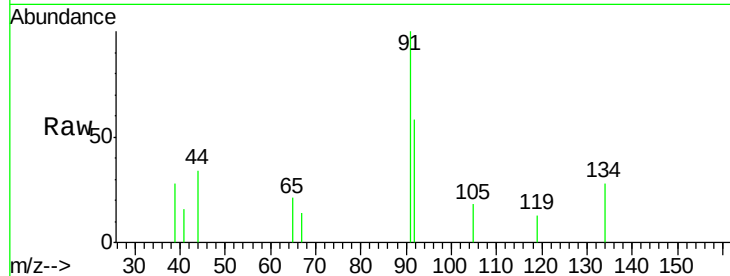
Tot Ion: 91 Resp: 2851

Ion Ratio Lower Upper

91 100

92 57.7 30.3 91.0

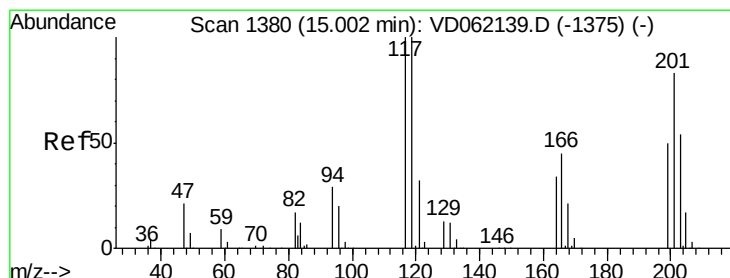
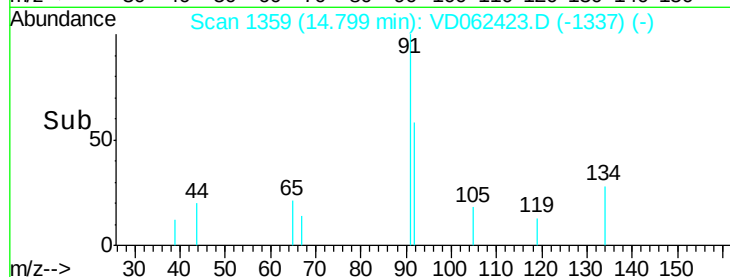
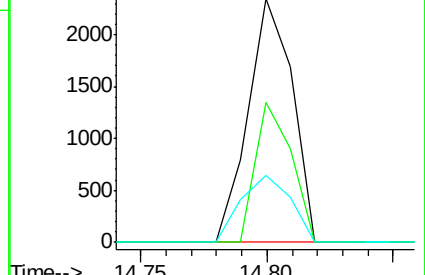
134 27.6 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 11.340 ug/l

RT: 15.06 min Scan# 1385

Delta R.T. 0.05 min

Lab File: VD062423.D

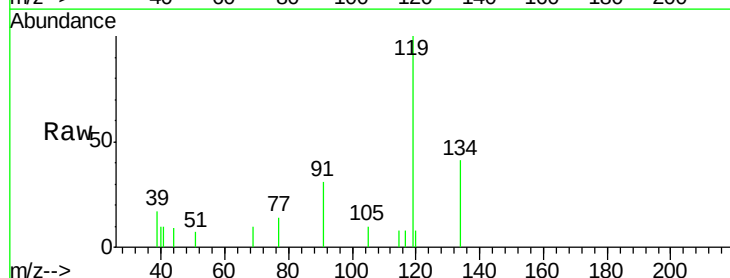
Acq: 16 May 2019 17:53

Tgt Ion: 117 Resp: 538

Ion Ratio Lower Upper

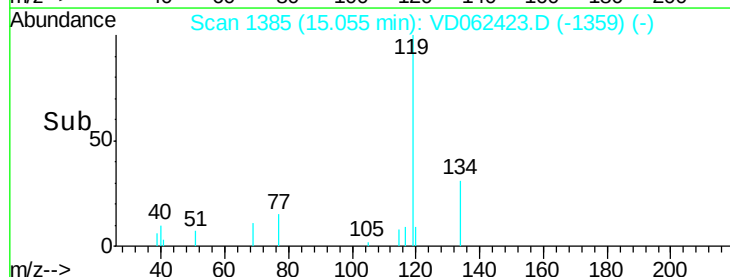
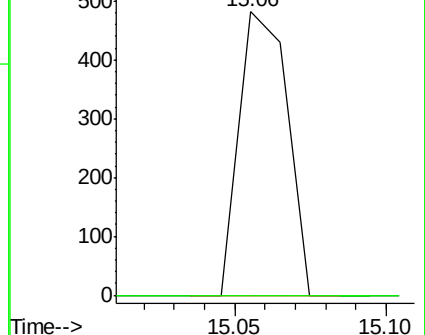
117 100

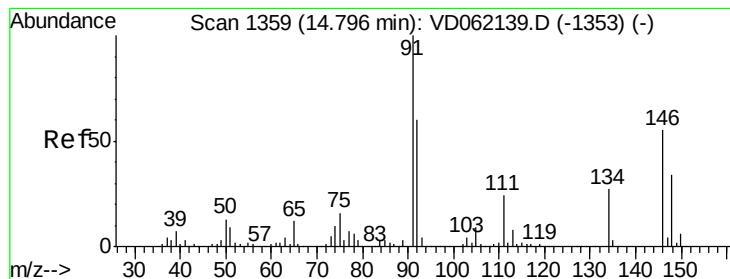
201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#91

1,2-Dichlorobenzene

Concen: 2.726 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMP

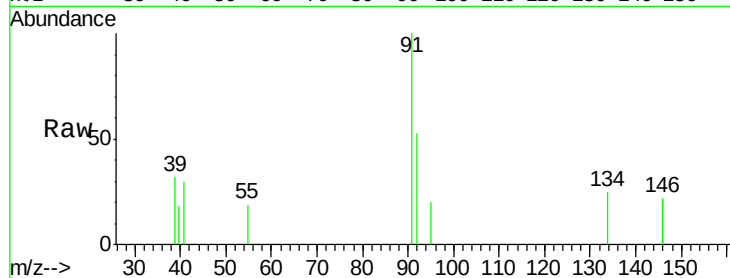
Tot Ion:146 Resp: 216

Ion Ratio Lower Upper

146 100

111 0.0 20.0 59.9#

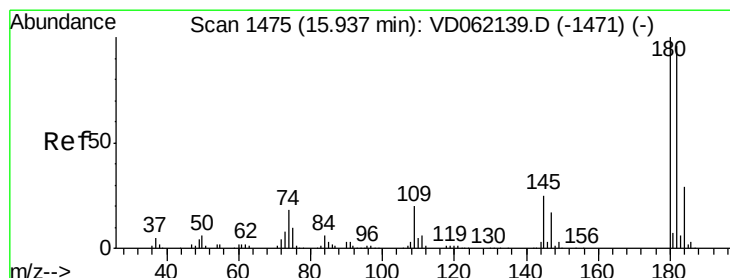
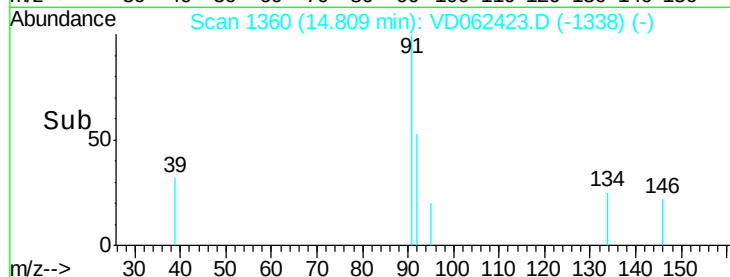
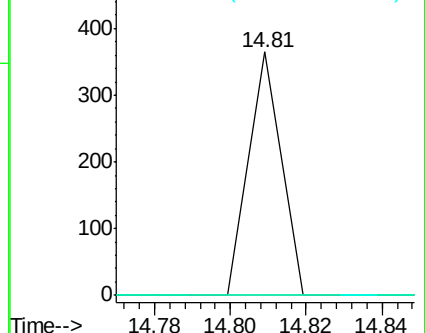
148 0.0 32.3 96.8#



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 5.964 ug/l

RT: 15.95 min Scan# 1476

Delta R.T. 0.01 min

Lab File: VD062423.D

Acq: 16 May 2019 17:53

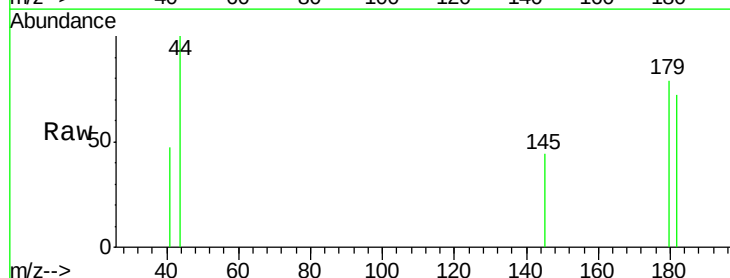
Tgt Ion:180 Resp: 344

Ion Ratio Lower Upper

180 100

182 90.2 49.3 147.8

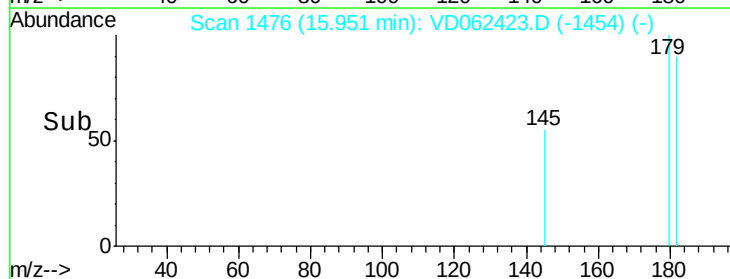
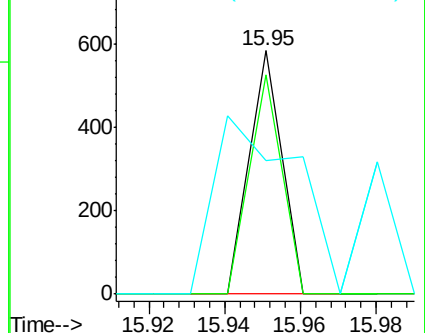
145 55.1 16.2 48.6#

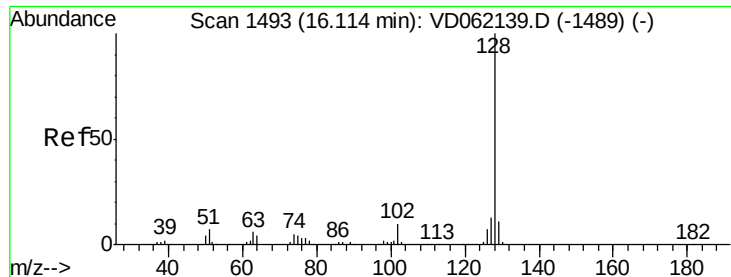


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

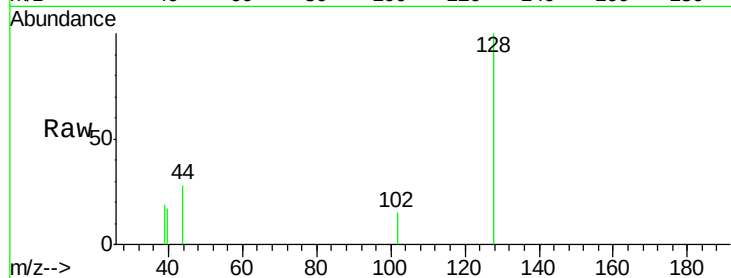




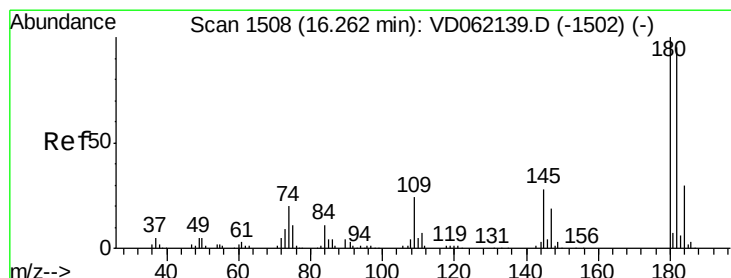
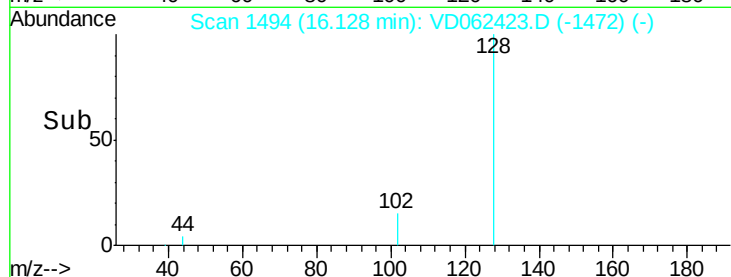
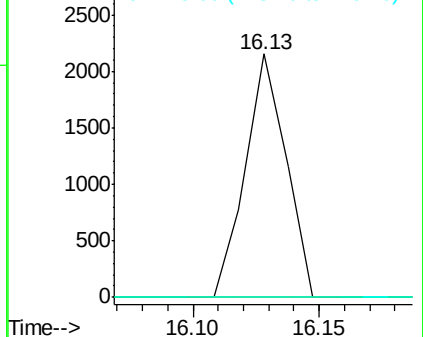
#95
Naphthalene
Concen: 29.965 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062423.D
Acq: 16 May 2019 17:53

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMP

Tot Ion:128 Resp: 2413
Ion Ratio Lower Upper
128 100
127 0.0 9.8 14.8#
129 0.0 8.8 13.2#

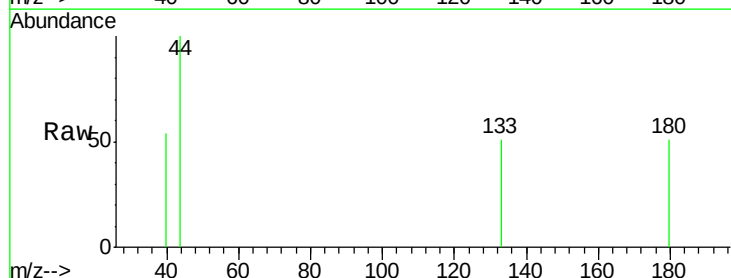


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 7.528 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD062423.D
Acq: 16 May 2019 17:53

Tgt Ion:180 Resp: 273
Ion Ratio Lower Upper
180 100
182 0.0 47.0 141.0#
145 0.0 17.0 51.0#



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V

