

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD100518\
 Data File : VD060143.D
 Acq On : 5 Oct 2018 18:03
 Operator : VA/AP
 Sample : J5305-02
 Misc : 6.42g/5ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 331-SAND-SOIL

Quant Time: Oct 05 23:43:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1147001	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.43	114	1660484	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	1071323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	319729	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	393275	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
35) Dibromofluoromethane	6.29	113	500280	39.68	ug/l	0.00
Spiked Amount			Recovery	=	79.36%	
50) Toluene-d8	9.43	98	1040378	28.93	ug/l	0.00
Spiked Amount			Recovery	=	57.86%	
62) 4-Bromofluorobenzene	12.41	95	306166	22.74	ug/l	0.00
Spiked Amount			Recovery	=	45.48%	

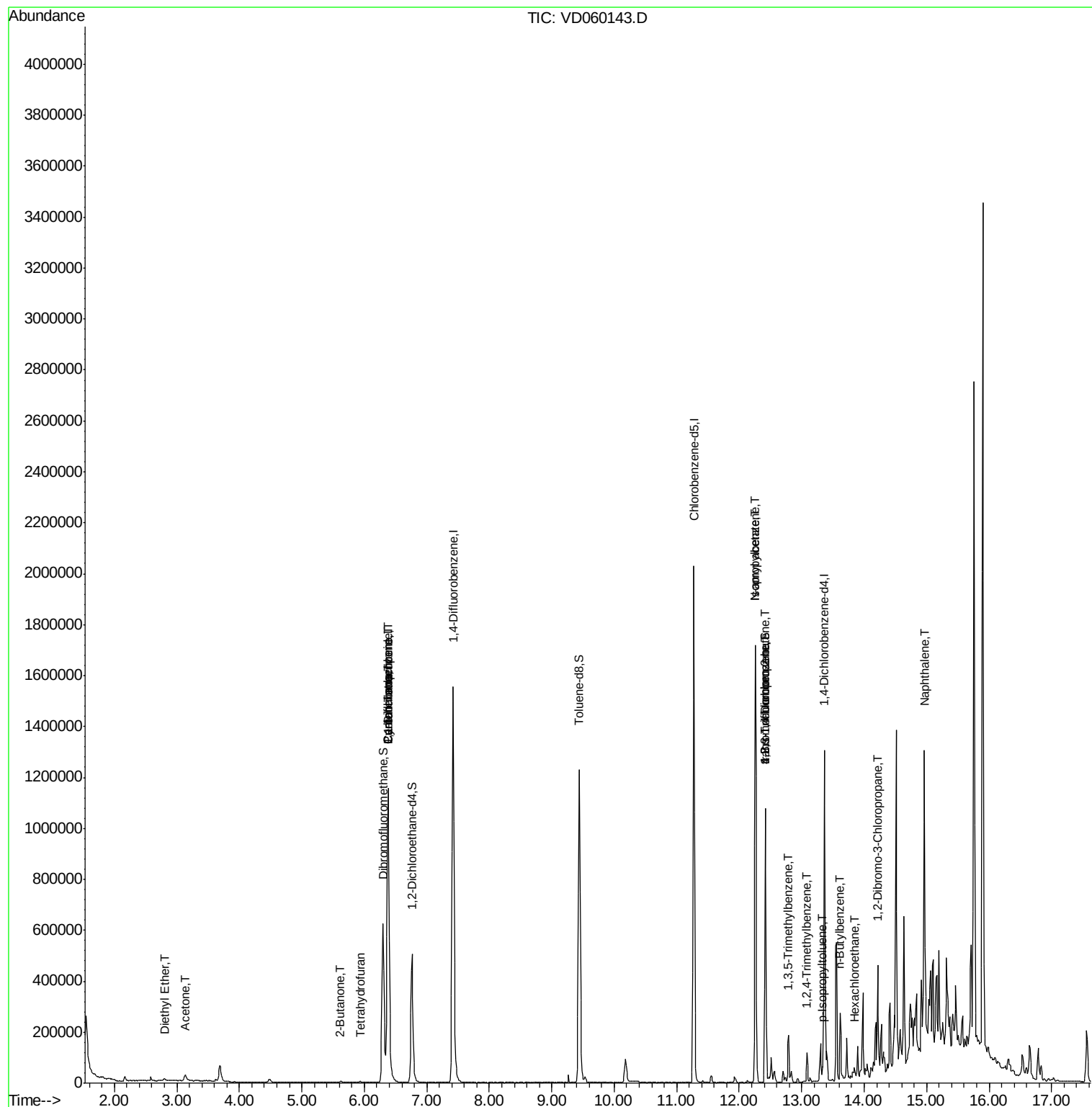
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.80	74	2905	1.482	ug/l	95
16) Acetone	3.13	43	44104	27.956	ug/l	97
20) Methylene Chloride	3.70	84	38865	Below Cal		99
25) 2-Butanone	5.60	43	5172	1.312	ug/l #	59
29) Tetrahydrofuran	5.94	42	2409	1.052	ug/l #	64
31) Cyclohexane	6.37	56	20910	1.110	ug/l #	1
36) 1,1-Dichloropropene	6.38	75	78013	4.917	ug/l #	45
38) Carbon Tetrachloride	6.38	117	89195	6.193	ug/l #	15
73) Isopropylbenzene	12.26	105	59245	2.809	ug/l #	67
74) N-amyl acetate	12.26	43	42836	5.544	ug/l #	34
76) 1,2,3-Trichloropropane	12.41	75	102252	22.207	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.79	105	88247	5.406	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.41	75	126999	98.160	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.08	105	48376	2.812	ug/l	95
86) p-Isopropyltoluene	13.33	119	26712	1.470	ug/l	96
89) n-Butylbenzene	13.62	91	22253	1.255	ug/l #	1
90) Hexachloroethane	13.83	117	5152	1.225	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.23	75	2606	4.238	ug/l #	1
95) Naphthalene	14.96	128	720857	63.807	ug/l	99

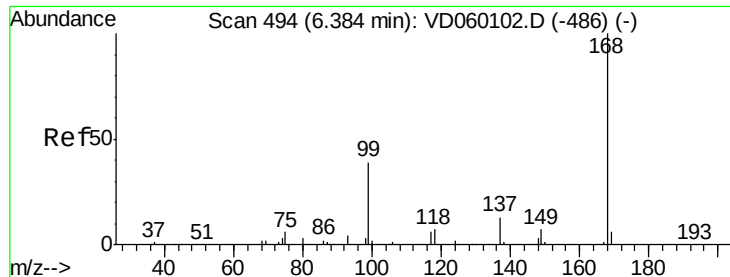
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD100518\
Data File : VD060143.D
Acq On : 5 Oct 2018 18:03
Operator : VA/AP
Sample : J5305-02
Misc : 6.42g/5ml/MSVOA_D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
331-SAND-SOIL

Quant Time: Oct 05 23:43:12 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 494

Delta R.T. -0.00 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

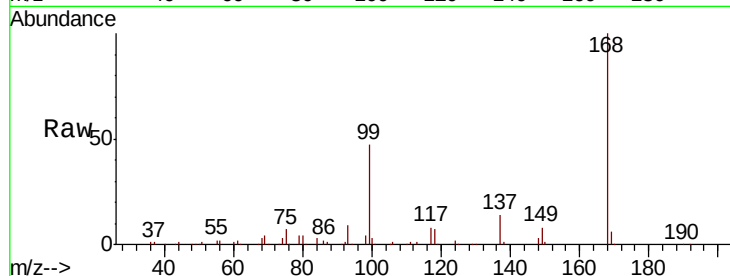
331-SAND-SOIL

Tgt Ion:168 Resp: 1147001

Ion Ratio Lower Upper

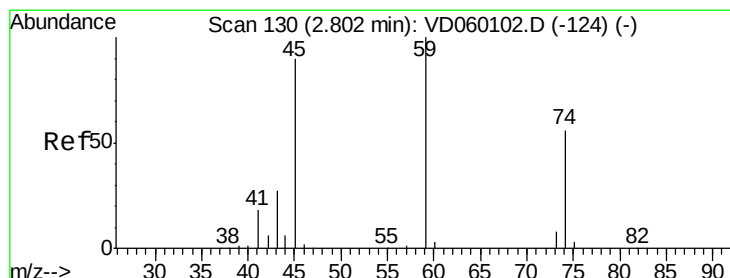
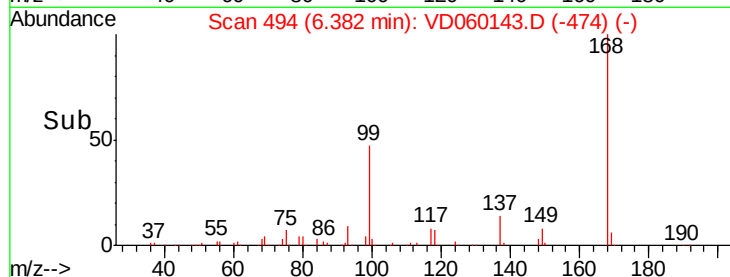
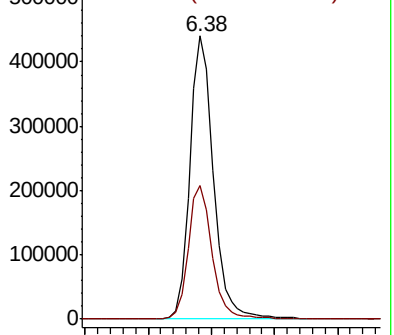
168 100

99 47.3 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.482 ug/l

RT: 2.80 min Scan# 130

Delta R.T. -0.00 min

Lab File: VD060143.D

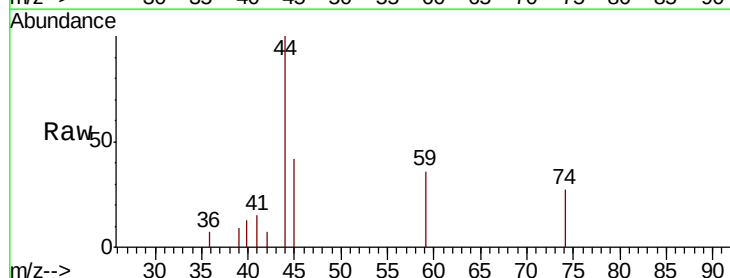
Acq: 5 Oct 2018 18:03

Tgt Ion: 74 Resp: 2905

Ion Ratio Lower Upper

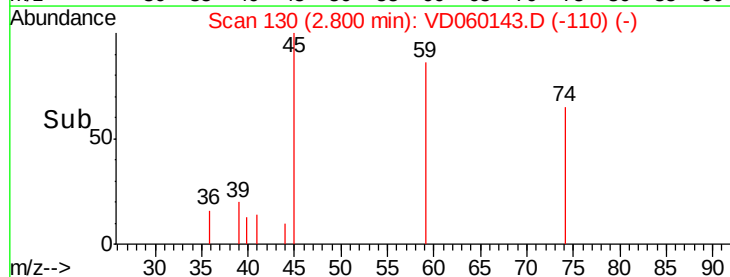
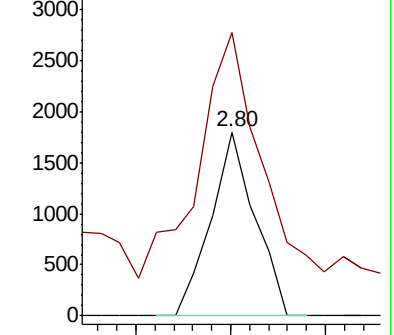
74 100

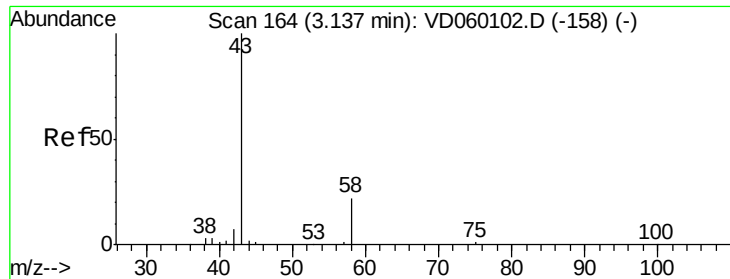
45 153.8 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 27.956 ug/l

RT: 3.13 min Scan# 164

Delta R.T. -0.00 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

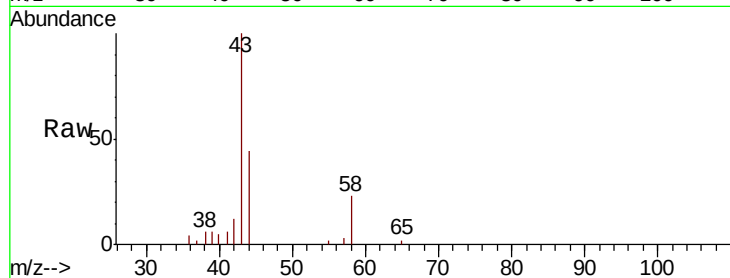
331-SAND-SOIL

Tgt Ion: 43 Resp: 44104

Ion Ratio Lower Upper

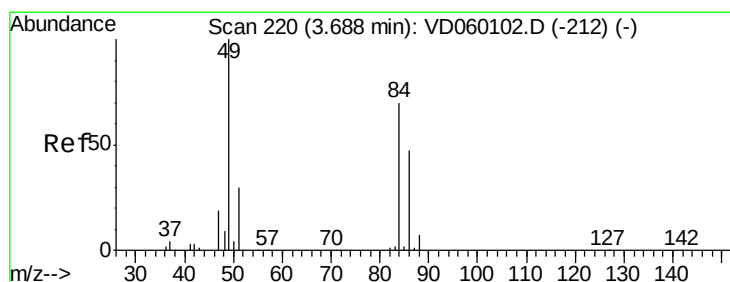
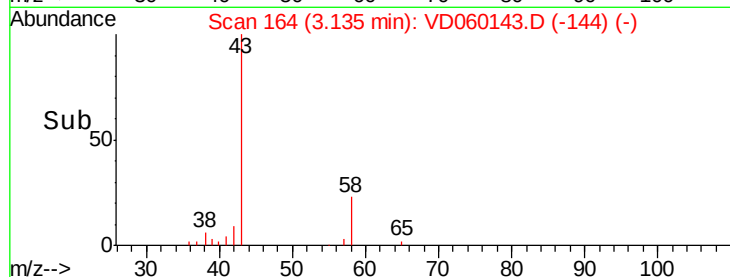
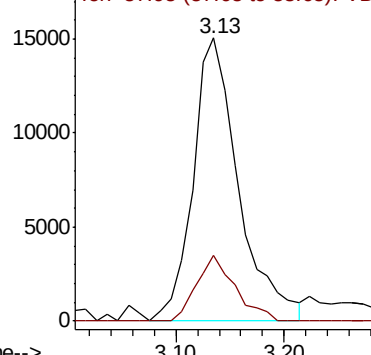
43 100

58 23.3 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 3.70 min Scan# 221

Delta R.T. 0.01 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

Tgt Ion: 84 Resp: 38865

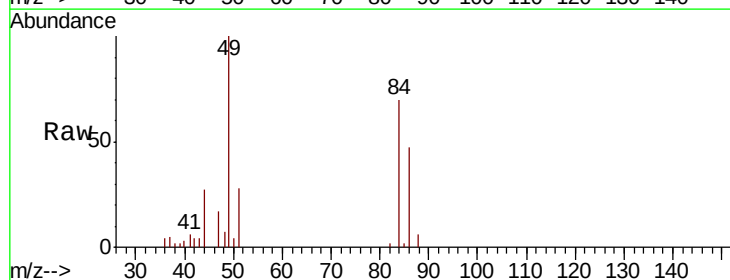
Ion Ratio Lower Upper

84 100

49 143.4 114.6 172.0

51 40.0 33.8 50.8

86 66.7 53.3 79.9

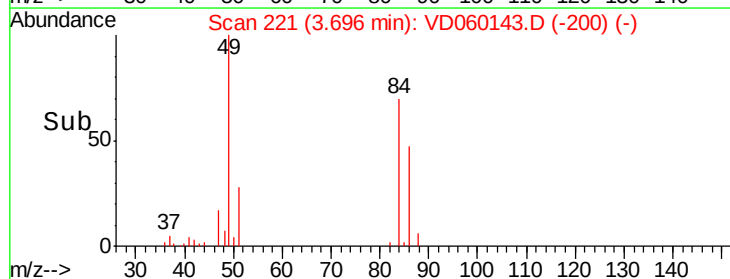
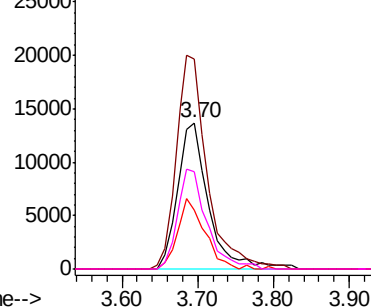


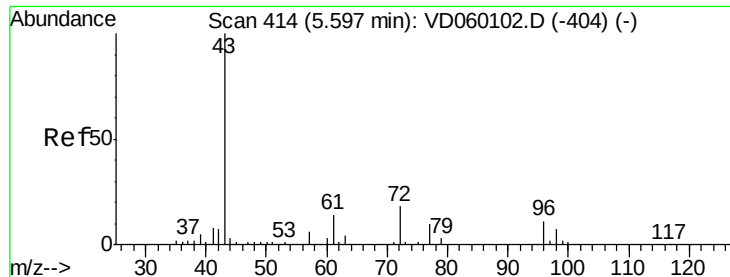
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 1.312 ug/l

RT: 5.60 min Scan# 415

Delta R.T. 0.01 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

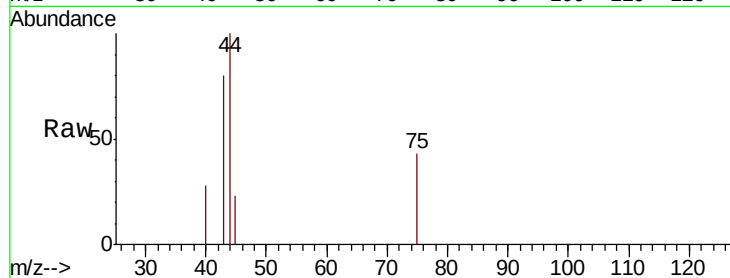
331-SAND-SOIL

Tgt Ion: 43 Resp: 5172

Ion Ratio Lower Upper

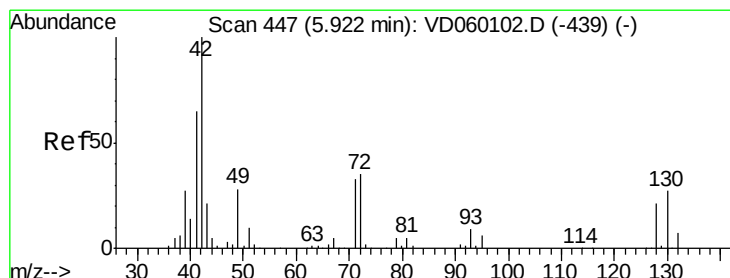
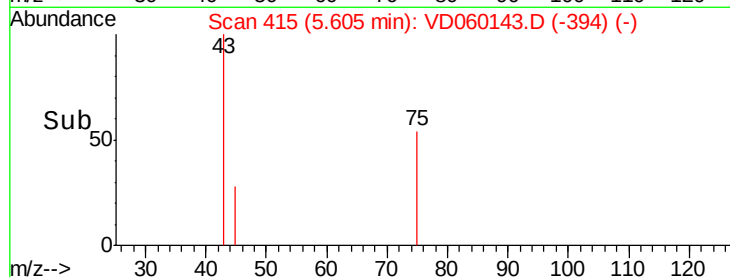
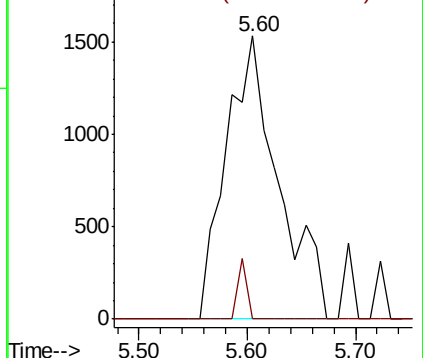
43 100

72 0.0 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.052 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.02 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

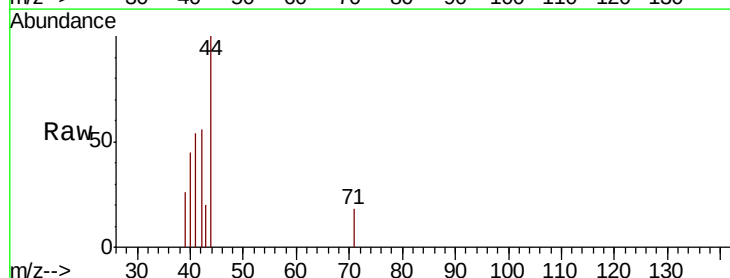
Tgt Ion: 42 Resp: 2409

Ion Ratio Lower Upper

42 100

72 8.7 26.9 40.3#

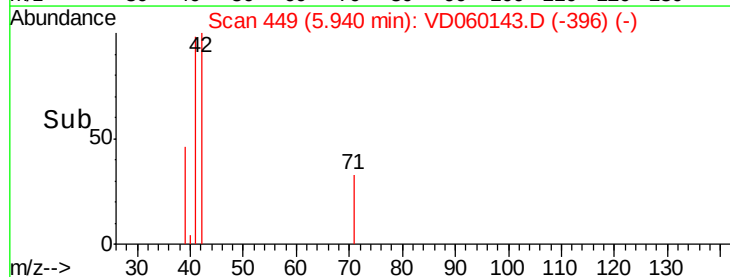
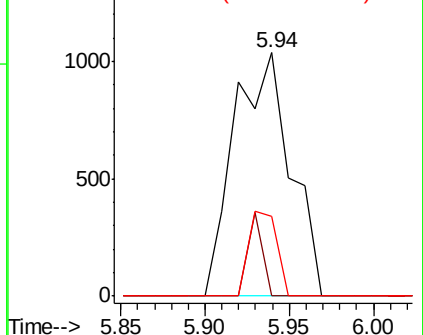
71 17.2 26.7 40.1#

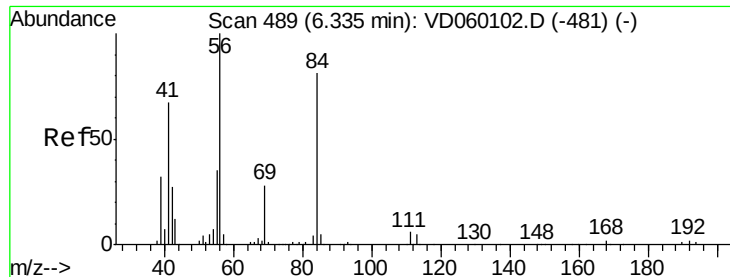


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

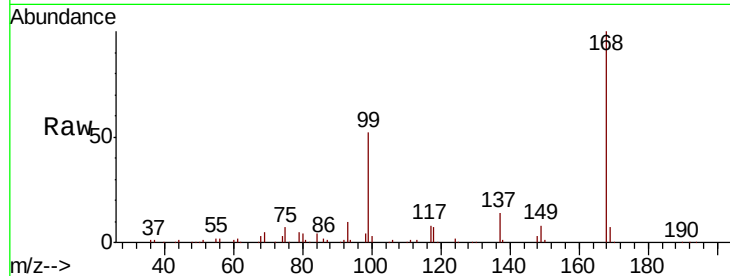




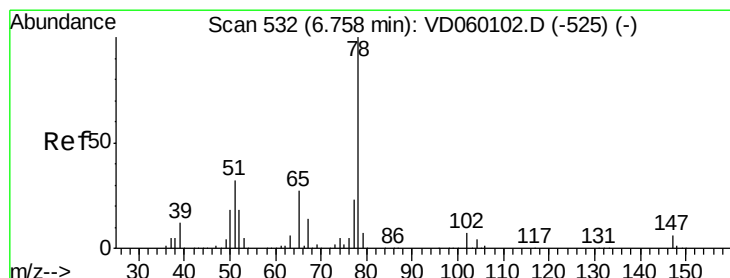
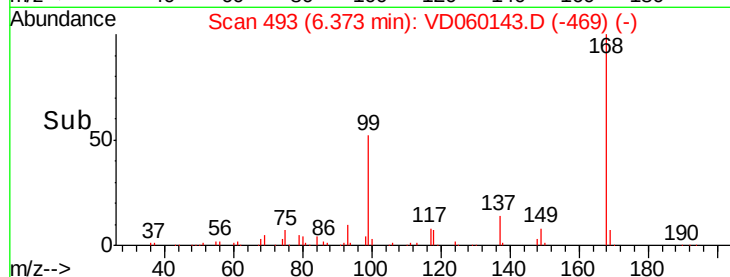
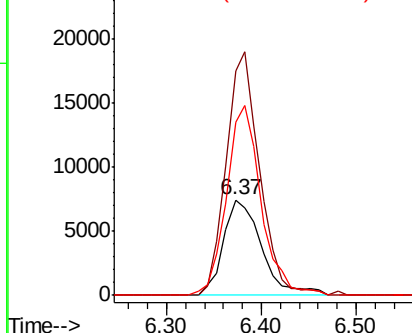
#31
Cyclohexane
Concen: 1.110 ug/l
RT: 6.37 min Scan# 493
Delta R.T. 0.04 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

Instrument :
MSVOA_D
ClientSampleId :
331-SAND-SOIL

Tgt Ion: 56 Resp: 20910
Ion Ratio Lower Upper
56 100
69 235.5 22.8 34.2#
84 181.5 64.9 97.3#

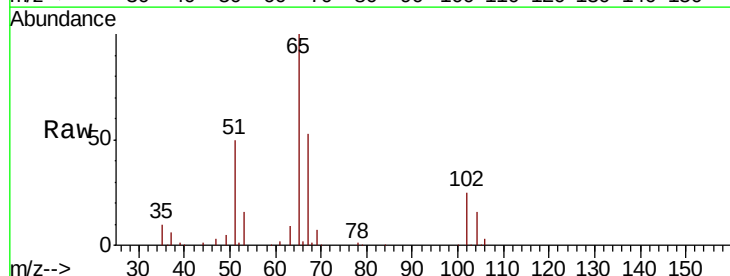


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

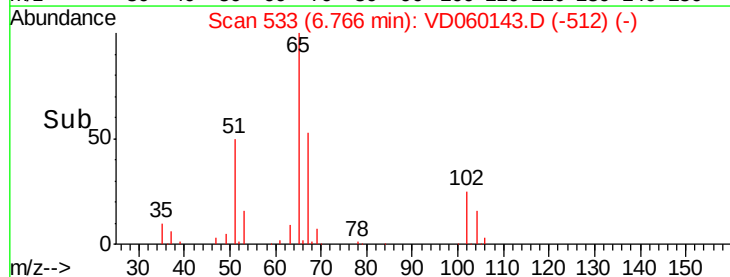
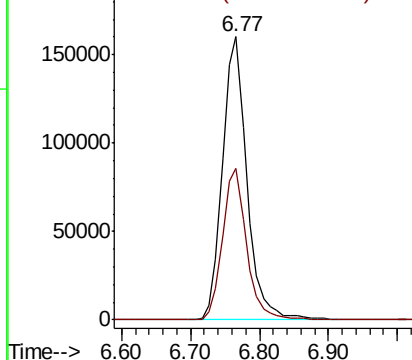


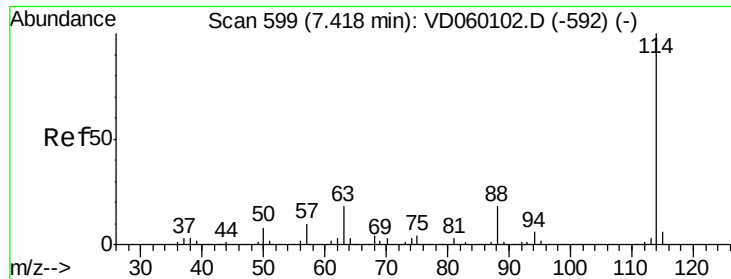
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.77 min Scan# 533
Delta R.T. 0.01 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

Tgt Ion: 65 Resp: 393275
Ion Ratio Lower Upper
65 100
67 53.3 0.0 106.2



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

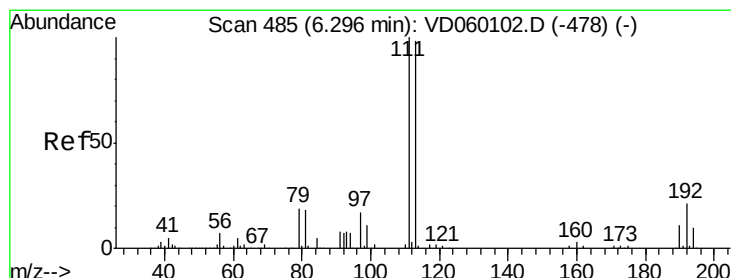
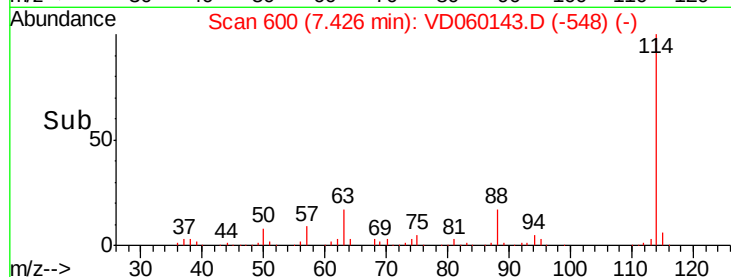
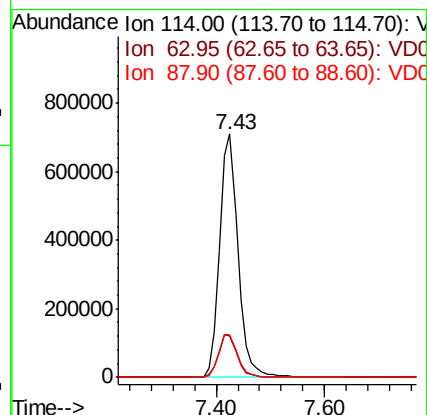
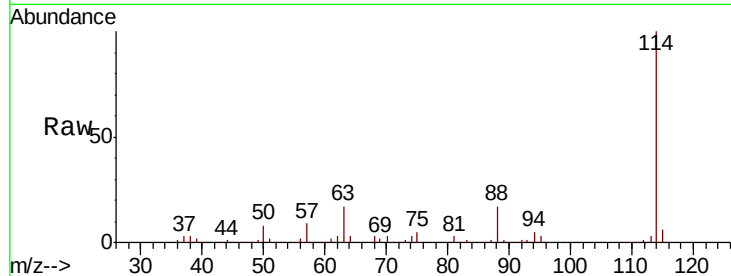




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. 0.01 min
 Lab File: VD060143.D
 Acq: 5 Oct 2018 18:03

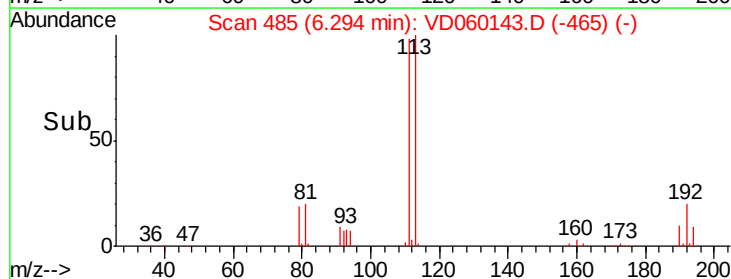
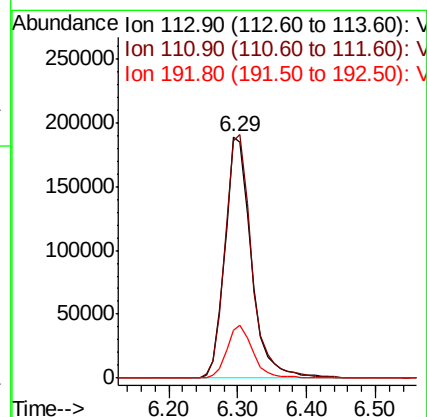
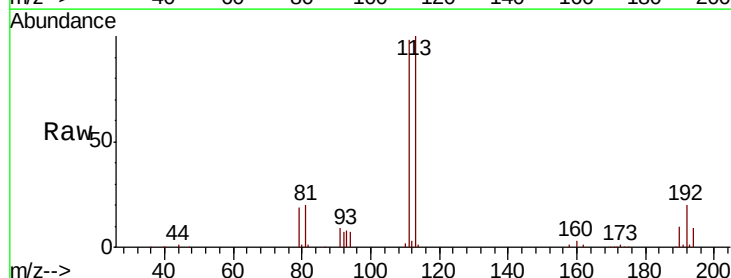
Instrument :
 MSVOA_D
 ClientSampleId :
 331-SAND-SOIL

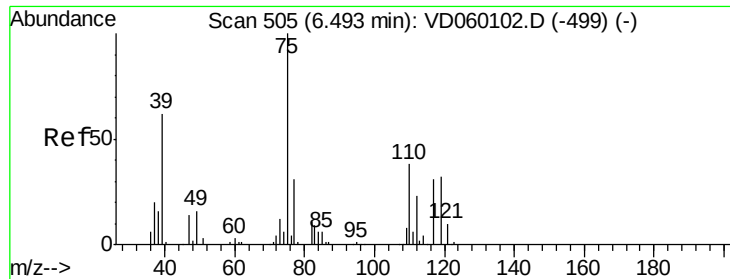
Tgt Ion:114 Resp: 1660484
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 36.0
 88 17.4 0.0 36.2



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.29 min Scan# 485
 Delta R.T. -0.00 min
 Lab File: VD060143.D
 Acq: 5 Oct 2018 18:03

Tgt Ion:113 Resp: 500280
 Ion Ratio Lower Upper
 113 100
 111 98.4 81.5 122.3
 192 19.7 17.4 26.0

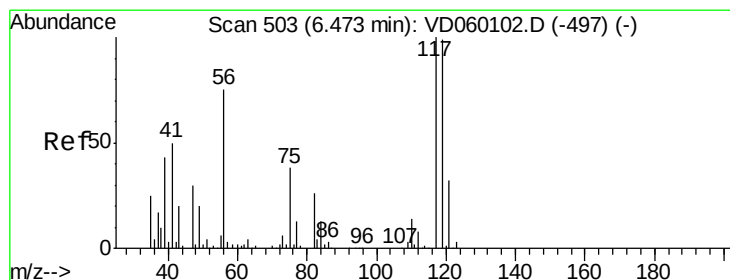
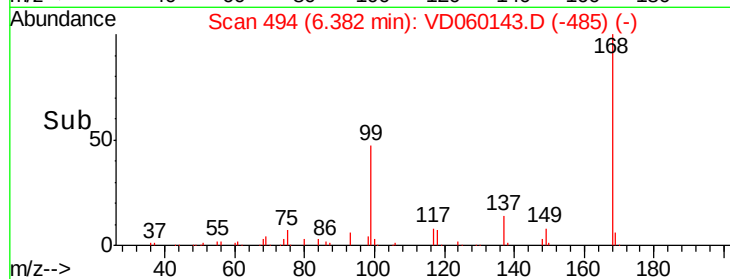
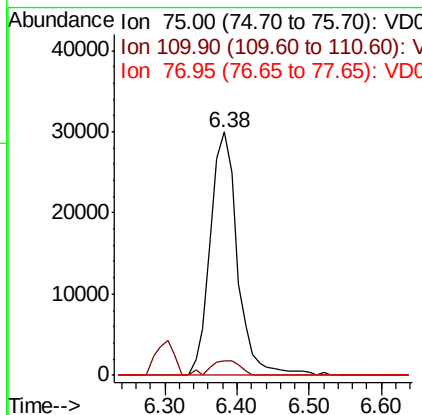
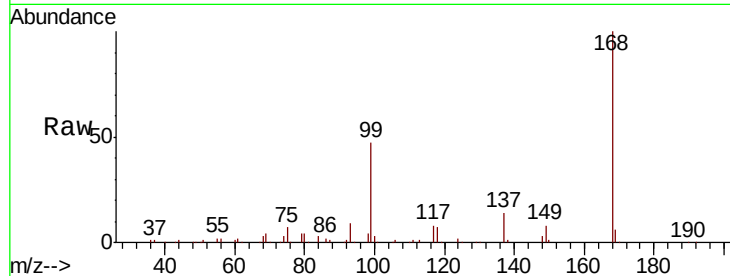




#36
 1,1-Dichloropropene
 Concen: 4.917 ug/l
 RT: 6.38 min Scan# 494
 Delta R.T. -0.11 min
 Lab File: VD060143.D
 Acq: 5 Oct 2018 18:03

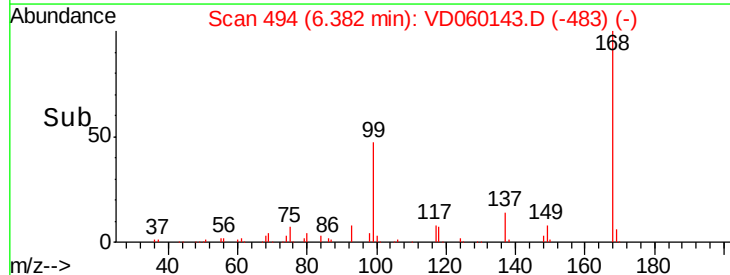
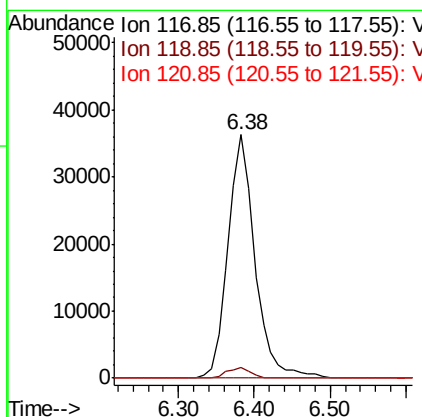
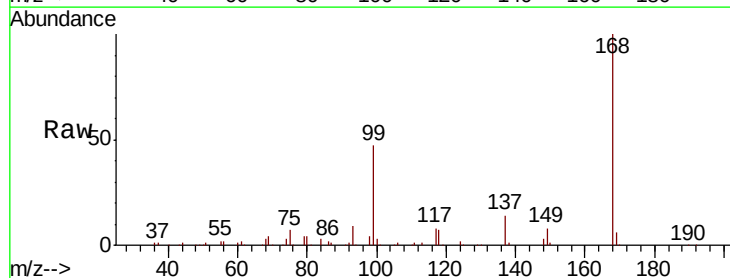
Instrument :
 MSVOA_D
 ClientSampleId :
 331-SAND-SOIL

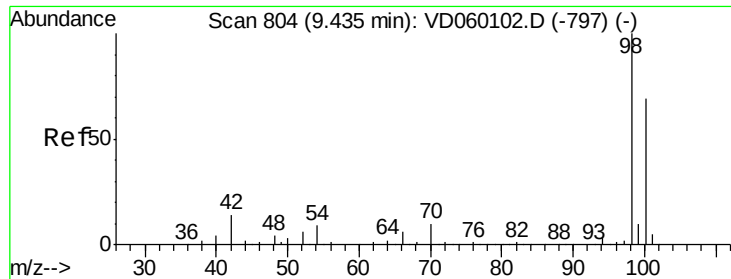
Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.1	19.0	57.0#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.193 ug/l
 RT: 6.38 min Scan# 494
 Delta R.T. -0.09 min
 Lab File: VD060143.D
 Acq: 5 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	77.8	116.6#
121	0.0	24.8	37.2#

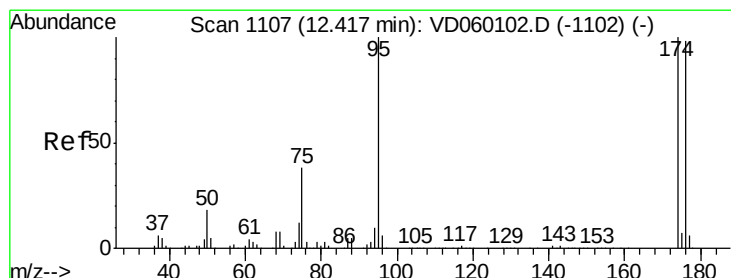
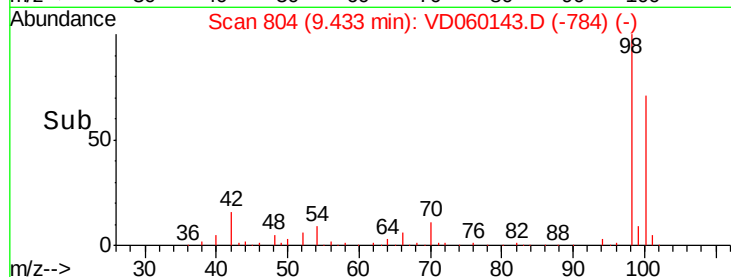
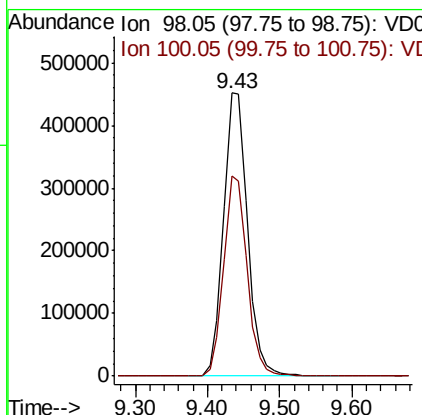
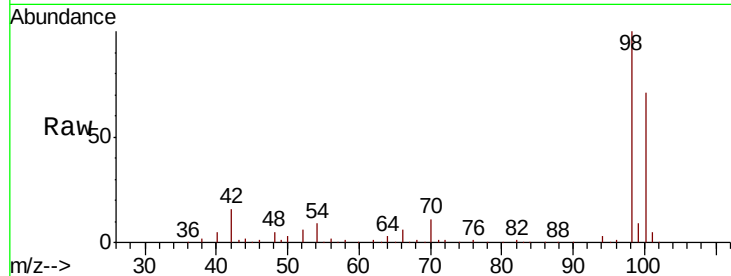




#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.43 min Scan# 804
Delta R.T. -0.00 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

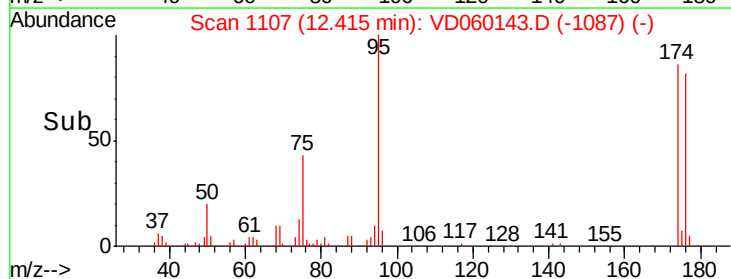
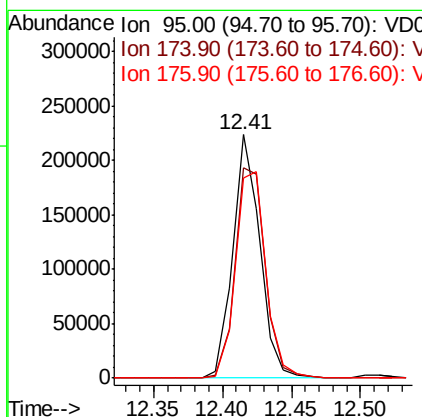
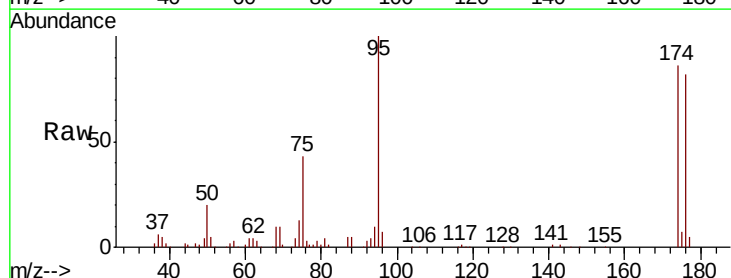
Instrument :
MSVOA_D
ClientSampleId :
331-SAND-SOIL

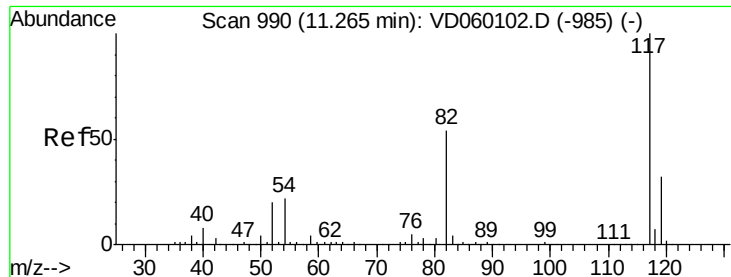
Tgt Ion: 98 Resp: 1040378
Ion Ratio Lower Upper
98 100
100 70.5 55.4 83.0



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.41 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

Tgt Ion: 95 Resp: 306166
Ion Ratio Lower Upper
95 100
174 86.2 0.0 200.2
176 82.3 0.0 195.6

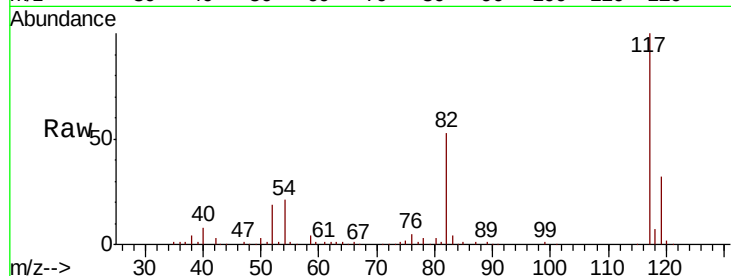




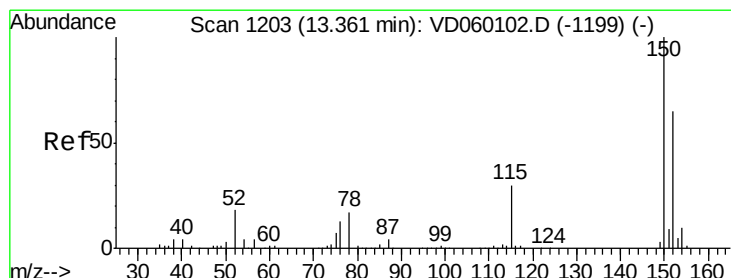
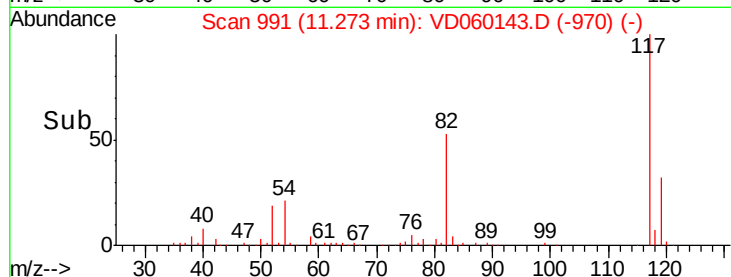
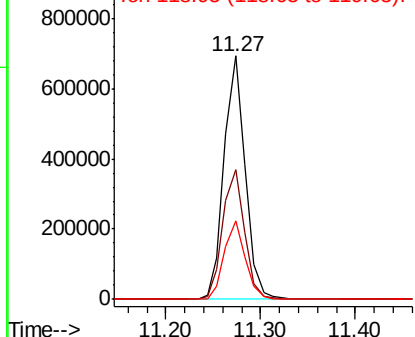
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

Instrument :
MSVOA_D
ClientSampleId :
331-SAND-SOIL

Tgt Ion:117 Resp: 1071323
Ion Ratio Lower Upper
117 100
82 53.2 43.4 65.2
119 32.1 26.0 39.0

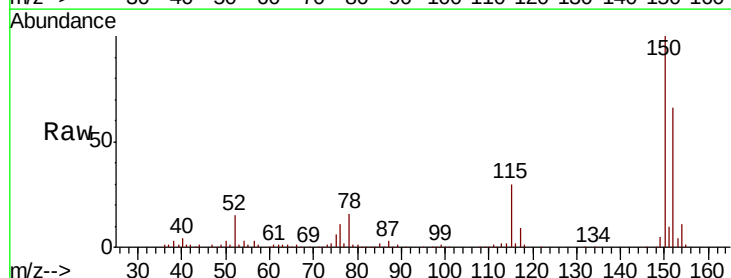


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

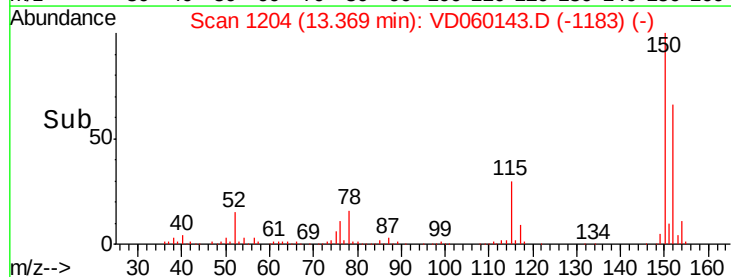
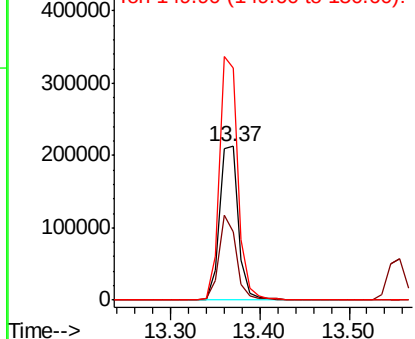


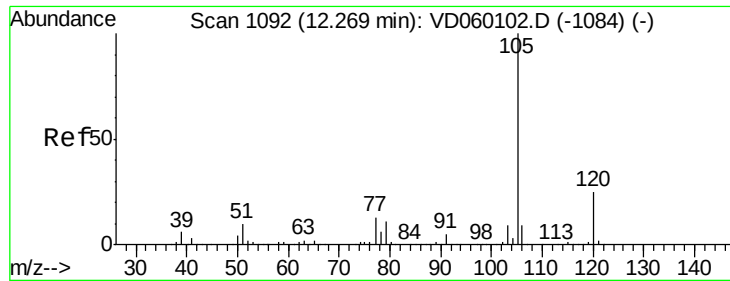
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

Tgt Ion:152 Resp: 319729
Ion Ratio Lower Upper
152 100
115 44.7 27.1 81.2
150 151.2 0.0 311.8



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





#73

Isopropylbenzene

Concen: 2.809 ug/l

RT: 12.26 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

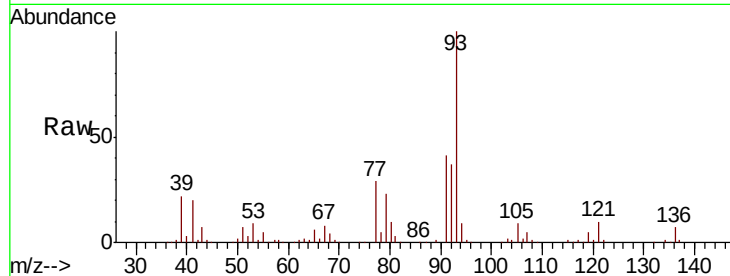
331-SAND-SOIL

Tgt Ion:105 Resp: 59245

Ion Ratio Lower Upper

105 100

120 8.5 12.6 37.6#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.26

40000

30000

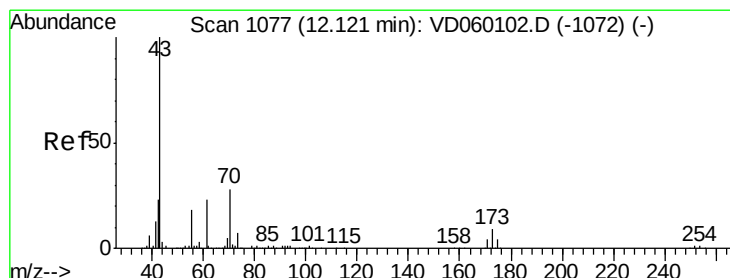
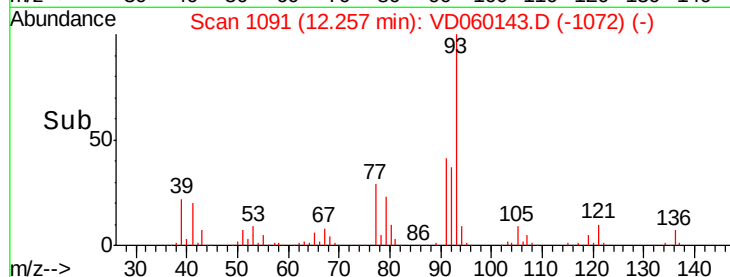
20000

10000

0

12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 5.544 ug/l

RT: 12.26 min Scan# 1091

Delta R.T. 0.14 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

Tgt Ion: 43 Resp: 42836

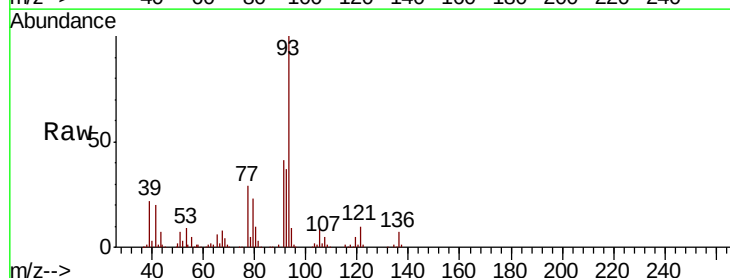
Ion Ratio Lower Upper

43 100

70 2.4 22.1 33.1#

55 73.1 14.1 21.1#

61 2.9 18.4 27.6#



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

40000

30000

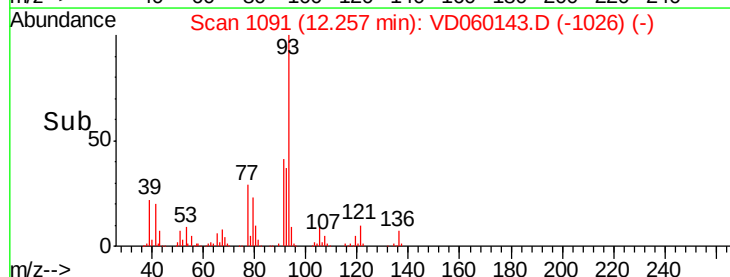
20000

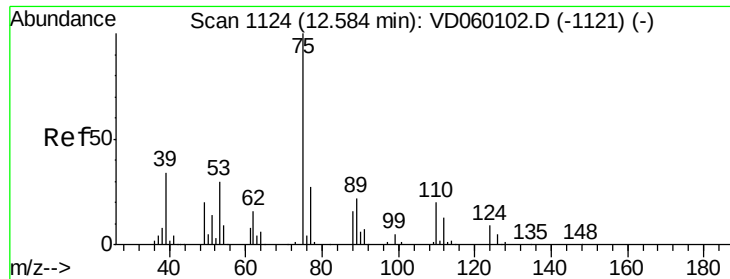
10000

0

12.20 12.25 12.30

Time-->

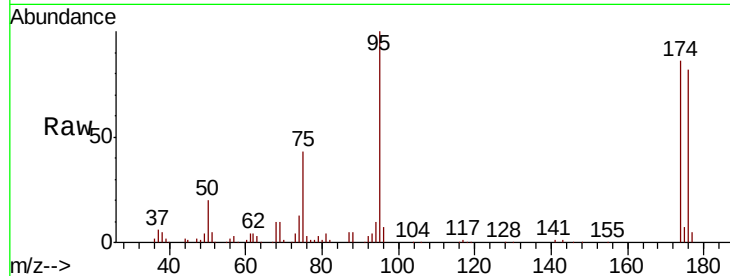




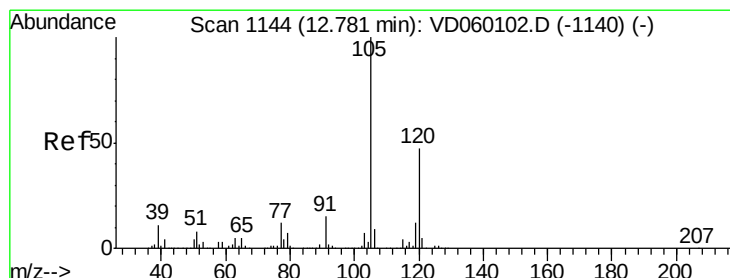
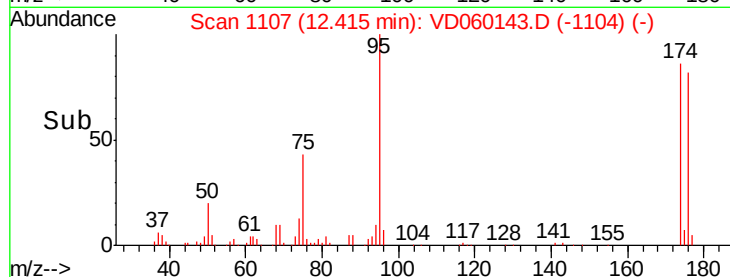
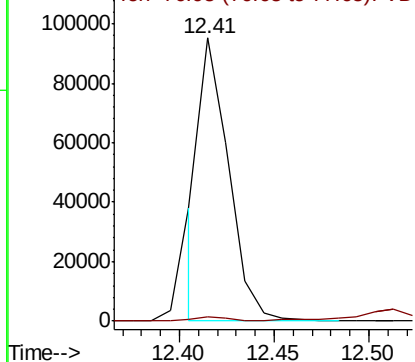
#76
 1,2,3-Trichloropropane
 Concen: 22.207 ug/l
 RT: 12.41 min Scan# 1107
 Delta R.T. -0.17 min
 Lab File: VD060143.D
 Acq: 5 Oct 2018 18:03

Instrument :
 MSVOA_D
 ClientSampleId :
 331-SAND-SOIL

Tgt Ion: 75 Resp: 102252
 Ion Ratio Lower Upper
 75 100
 77 1.7 16.3 48.9#

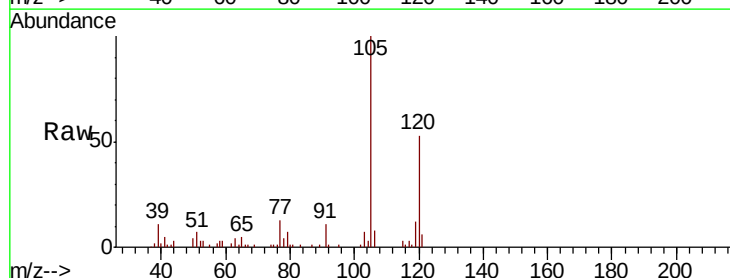


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 76.95 (76.65 to 77.65): VDC

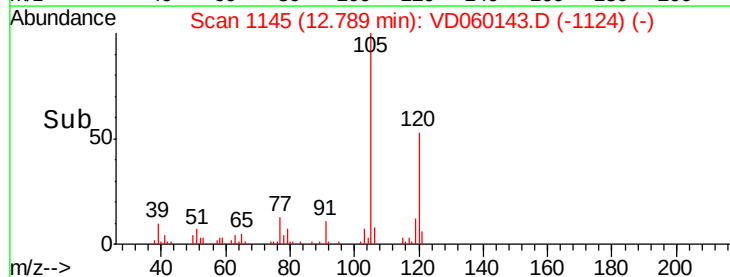
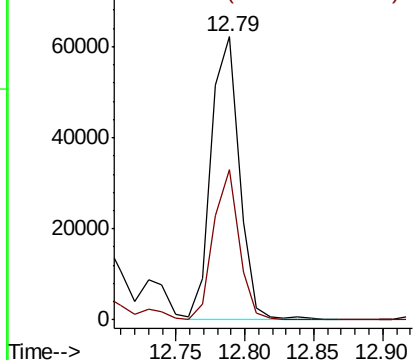


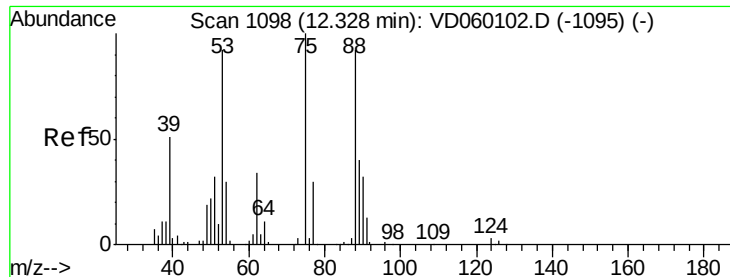
#80
 1,3,5-Trimethylbenzene
 Concen: 5.406 ug/l
 RT: 12.79 min Scan# 1145
 Delta R.T. 0.01 min
 Lab File: VD060143.D
 Acq: 5 Oct 2018 18:03

Tgt Ion: 105 Resp: 88247
 Ion Ratio Lower Upper
 105 100
 120 53.1 23.7 71.1



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 98.160 ug/l

RT: 12.41 min Scan# 1107

Delta R.T. 0.09 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

331-SAND-SOIL

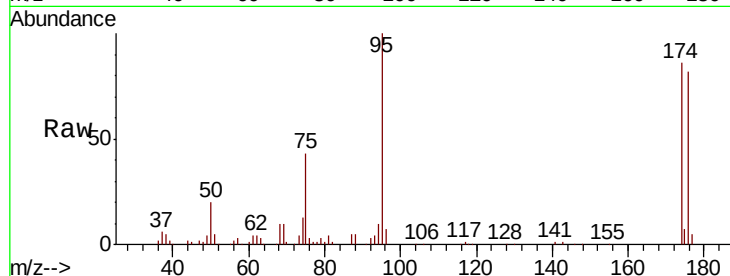
Tgt Ion: 75 Resp: 126999

Ion Ratio Lower Upper

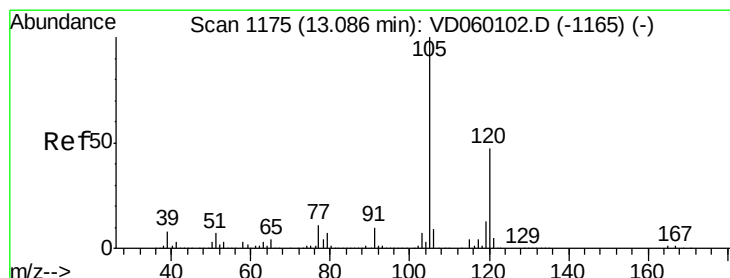
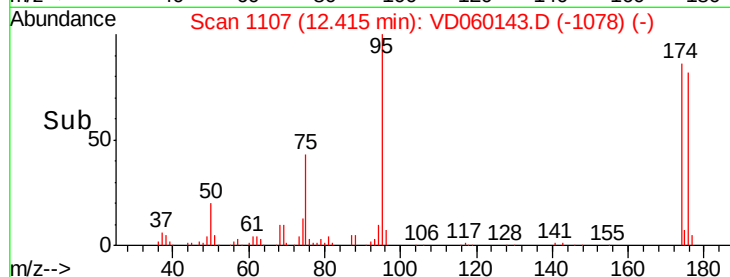
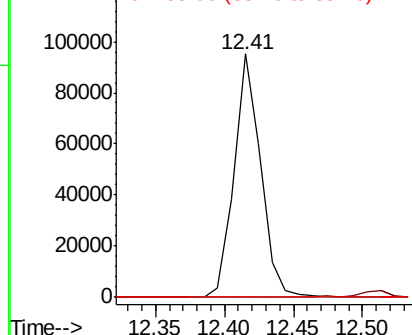
75 100

53 0.0 73.0 109.6#

89 0.0 32.0 48.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#84

1,2,4-Trimethylbenzene

Concen: 2.812 ug/l

RT: 13.08 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VD060143.D

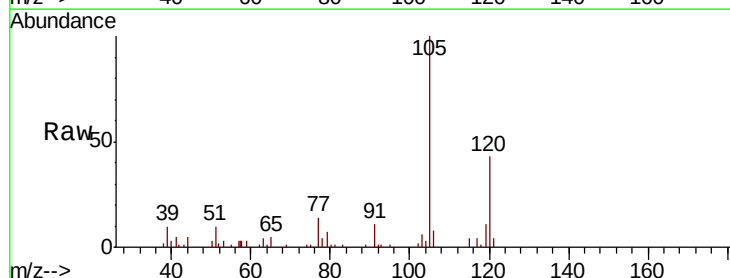
Acq: 5 Oct 2018 18:03

Tgt Ion: 105 Resp: 48376

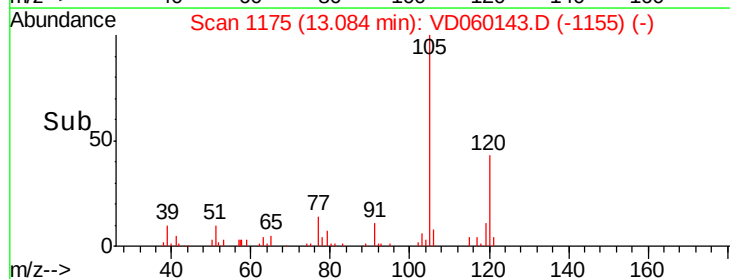
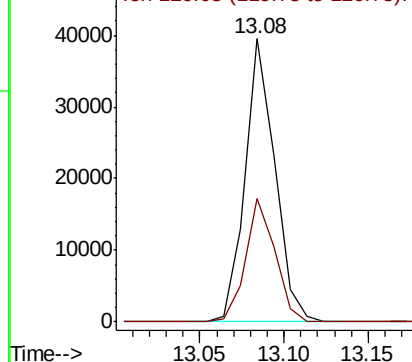
Ion Ratio Lower Upper

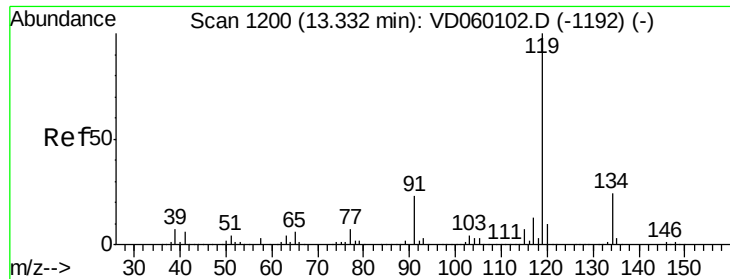
105 100

120 43.4 23.4 70.0



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V

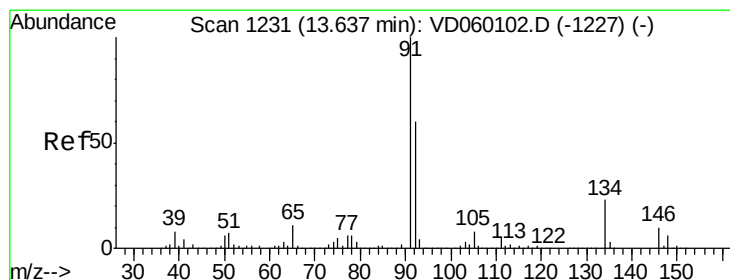
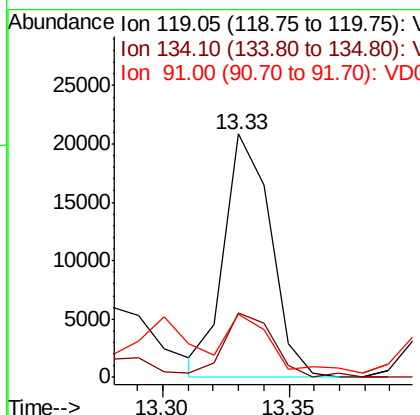
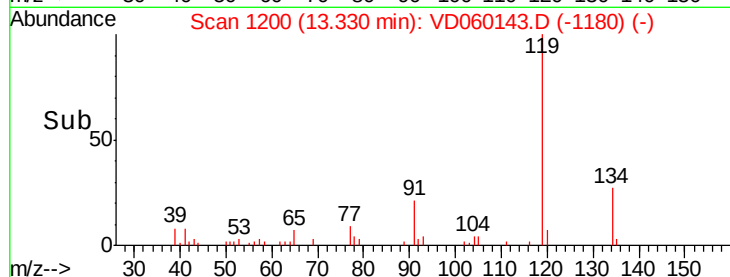
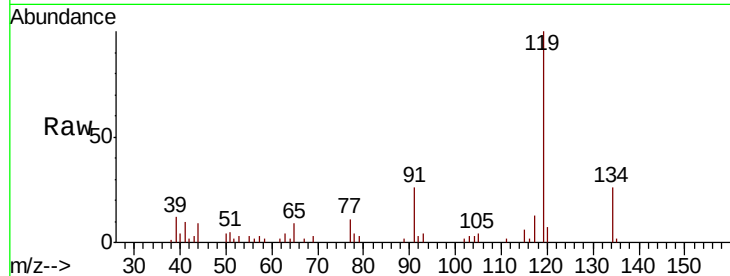




#86
p-Isopropyltoluene
Concen: 1.470 ug/l
RT: 13.33 min Scan# 1200
Delta R.T. -0.00 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

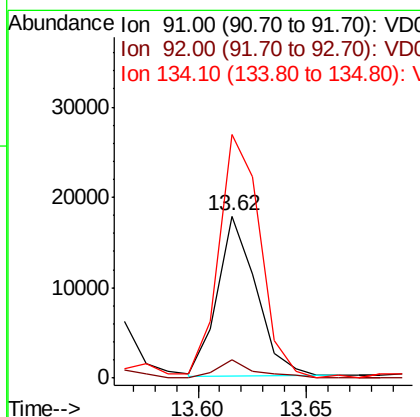
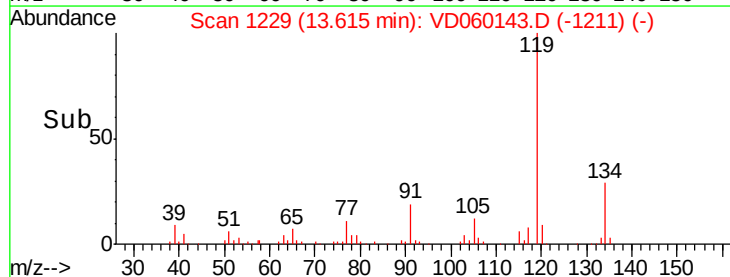
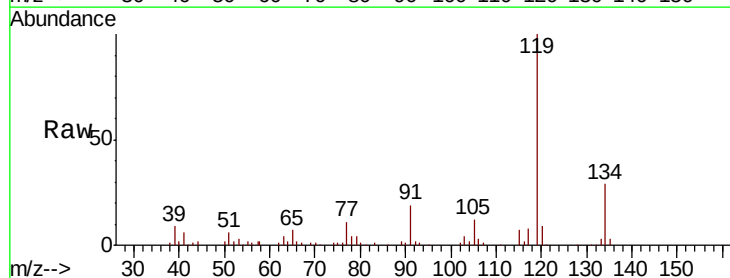
Instrument :
MSVOA_D
ClientSampleId :
331-SAND-SOIL

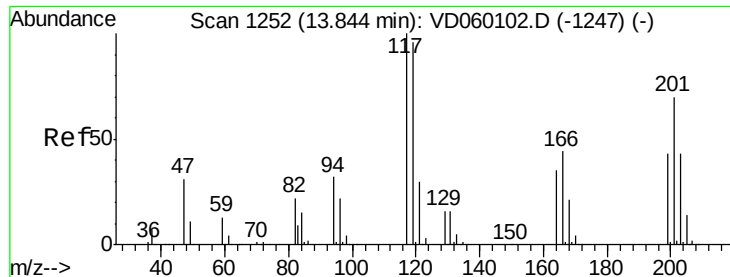
Tgt Ion: 119 Resp: 26712
Ion Ratio Lower Upper
119 100
134 26.4 12.3 36.8
91 26.0 11.8 35.4



#89
n-Butylbenzene
Concen: 1.255 ug/l
RT: 13.62 min Scan# 1229
Delta R.T. -0.02 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

Tgt Ion: 91 Resp: 22253
Ion Ratio Lower Upper
91 100
92 11.1 30.1 90.3#
134 150.1 11.6 34.7#





#90

Hexachloroethane

Concen: 1.225 ug/l

RT: 13.83 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

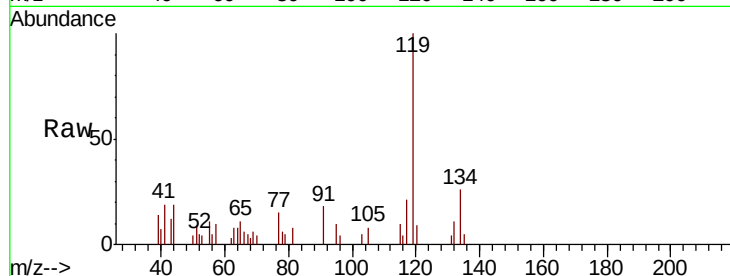
331-SAND-SOIL

Tgt Ion:117 Resp: 5152

Ion Ratio Lower Upper

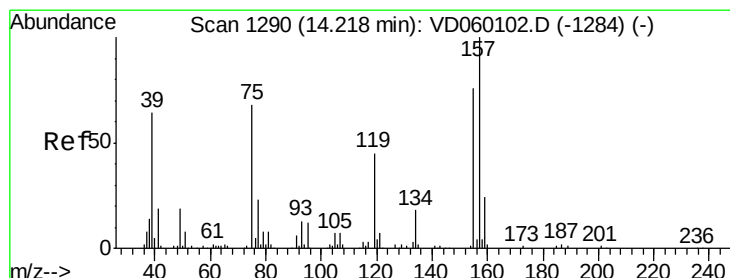
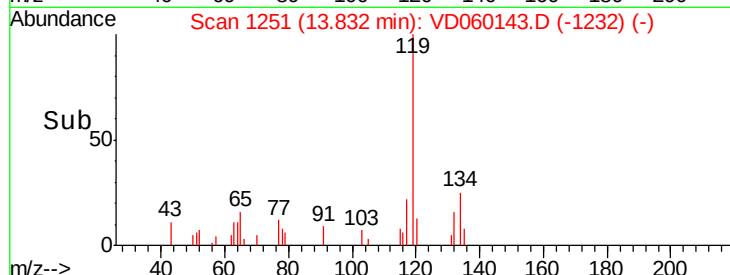
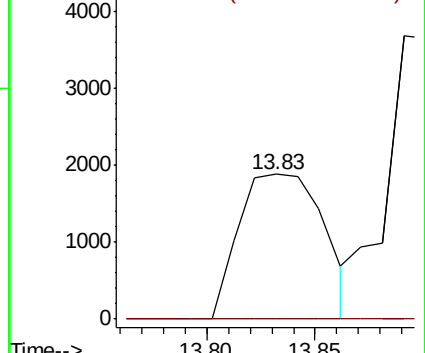
117 100

201 0.0 34.8 104.5#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.238 ug/l

RT: 14.23 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VD060143.D

Acq: 5 Oct 2018 18:03

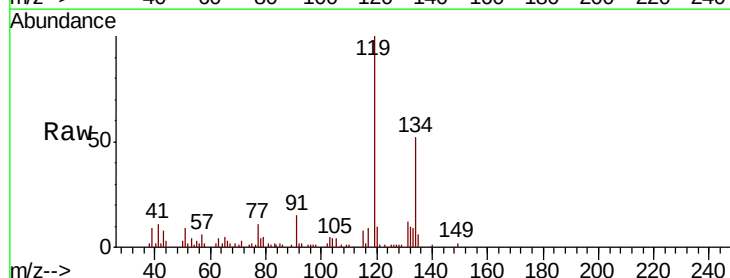
Tgt Ion: 75 Resp: 2606

Ion Ratio Lower Upper

75 100

155 0.0 55.9 167.7#

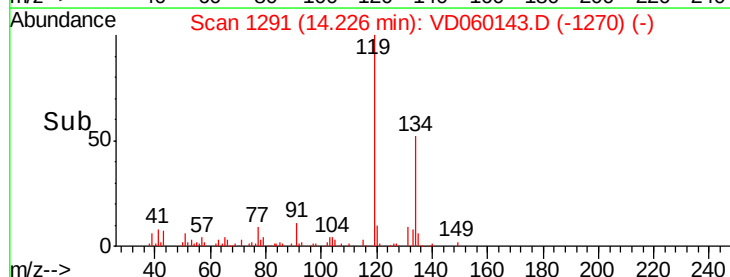
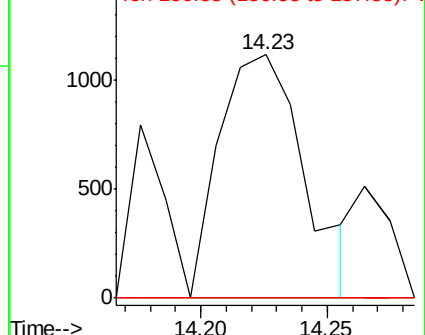
157 0.0 73.3 219.8#

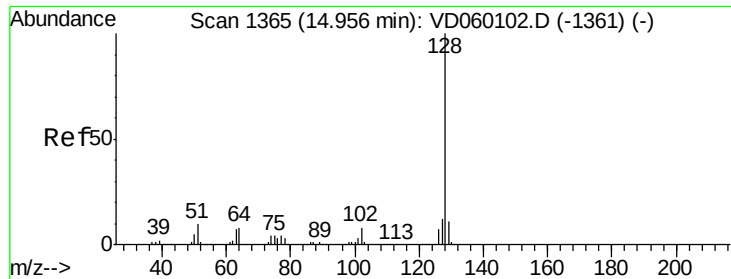


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

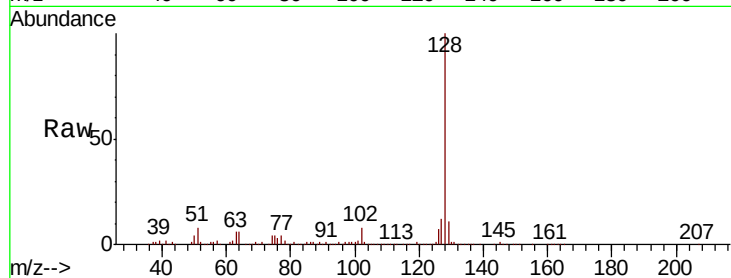




#95
Naphthalene
Concen: 63.807 ug/l
RT: 14.96 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060143.D
Acq: 5 Oct 2018 18:03

Instrument :
MSVOA_D
ClientSampleId :
331-SAND-SOIL

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.9	14.9
129	10.8	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V
800000
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

