

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121218\
 Data File : VD060547.D
 Acq On : 12 Dec 2018 15:17
 Operator : VA/AP
 Sample : J6354-01
 Misc : 5.06/0.5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL

Quant Time: Dec 13 00:20:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

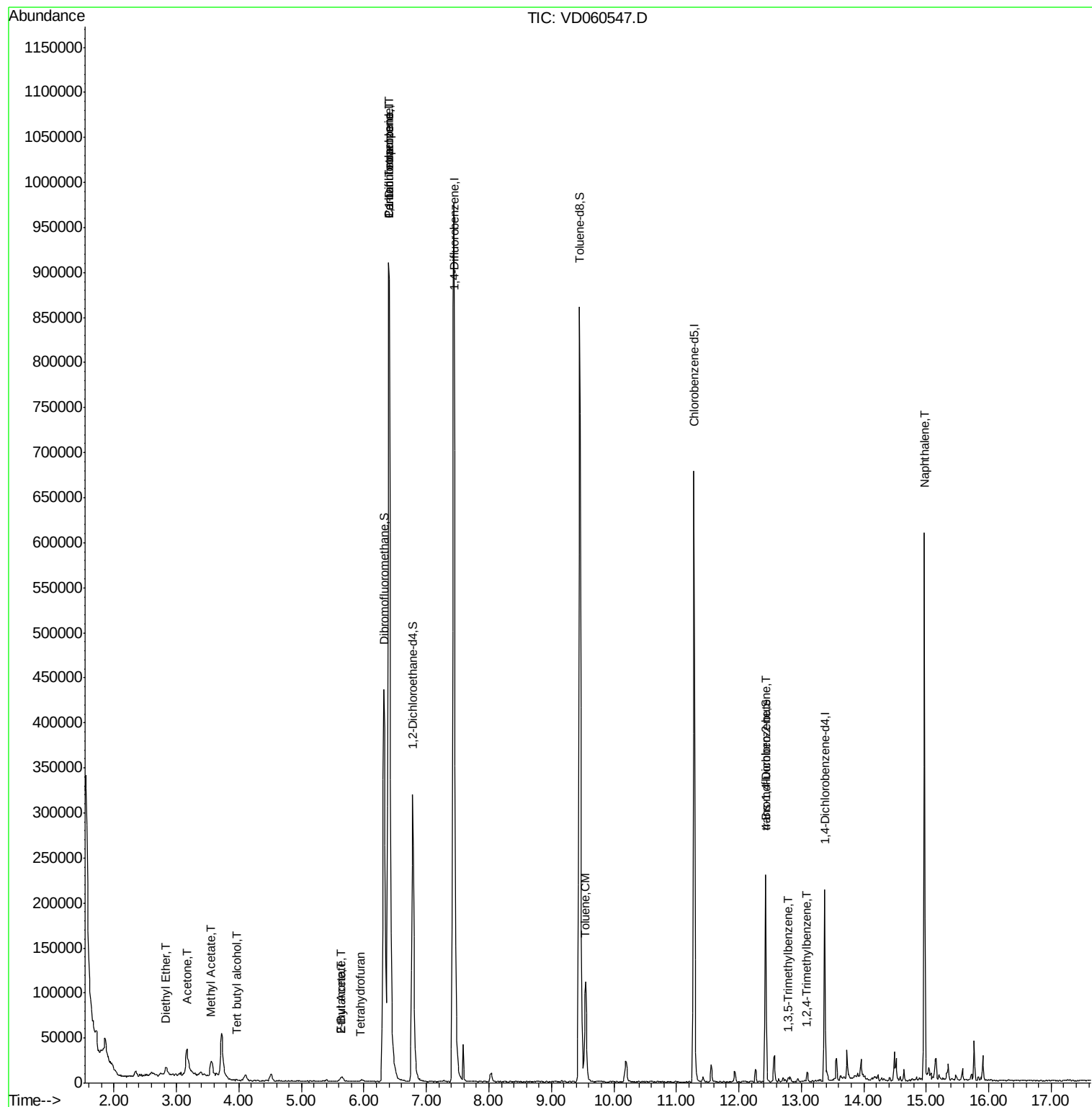
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	927706	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.44	114	1031896	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	350479	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	53896	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.78	65	256009	38.93	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	77.86%	
35) Dibromofluoromethane	6.32	113	355410	46.89	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	93.78%	
50) Toluene-d8	9.45	98	696923	31.77	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	63.54%	
62) 4-Bromofluorobenzene	12.42	95	73365	9.35	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	18.70%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.61	85	629	Below Cal	#	41
8) Diethyl Ether	2.84	74	2583	1.702	ug/l	79
11) Tert butyl alcohol	3.96	59	470	1.759	ug/l #	73
16) Acetone	3.17	43	72879	69.145	ug/l	91
18) Methyl Acetate	3.55	43	35777	14.282	ug/l	95
20) Methylene Chloride	3.73	84	31874	Below Cal		88
25) 2-Butanone	5.62	43	6390	3.082	ug/l	96
29) Tetrahydrofuran	5.95	42	1929	1.643	ug/l #	50
31) Cyclohexane	6.40	56	20361	Below Cal	#	1
36) 1,1-Dichloropropene	6.40	75	67415	6.684	ug/l #	48
37) Ethyl Acetate	5.62	43	6390	1.461	ug/l #	68
38) Carbon Tetrachloride	6.40	117	74451	8.222	ug/l #	15
52) Toluene	9.55	92	56254	3.491	ug/l	95
80) 1,3,5-Trimethylbenzene	12.80	105	3303	1.133	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.42	75	29835	175.170	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.09	105	6134	2.033	ug/l	98
95) Naphthalene	14.97	128	345506	250.457	ug/l	99

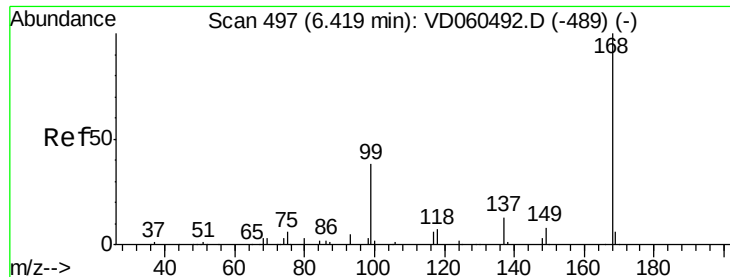
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 12 Dec 2018 15:17
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SOIL

Quant Time: Dec 13 00:20:02 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.01 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampled :

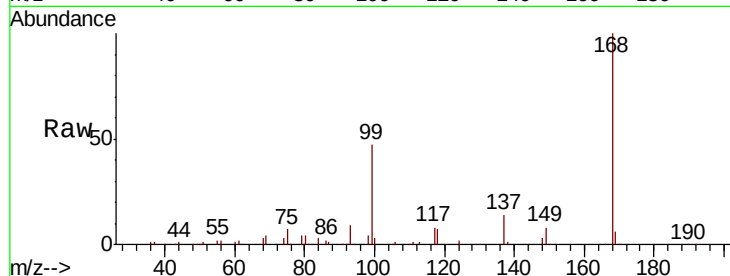
SOIL

Tot Ion:168 Resp: 927706

Ion Ratio Lower Upper

168 100

99 47.1 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

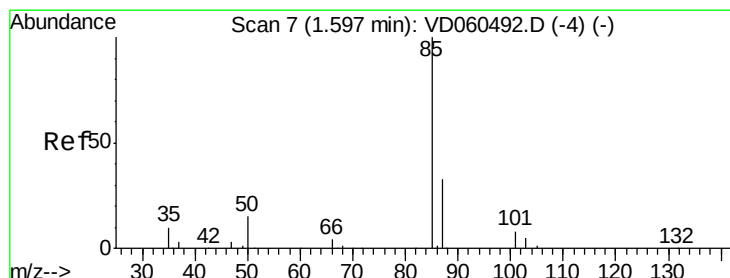
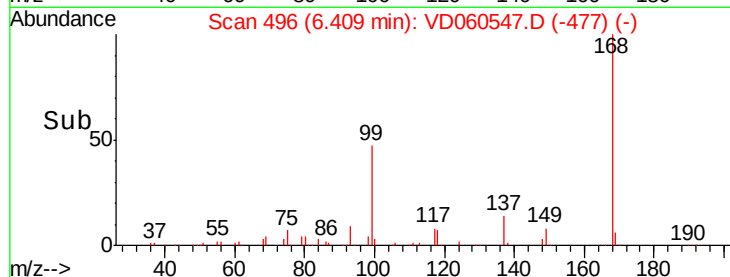
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.61 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060547.D

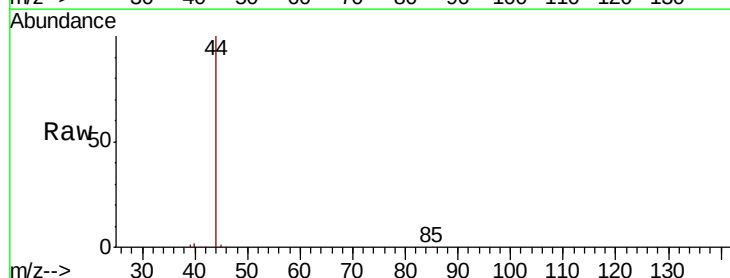
Acq: 12 Dec 2018 15:17

Tgt Ion: 85 Resp: 629

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.61

400

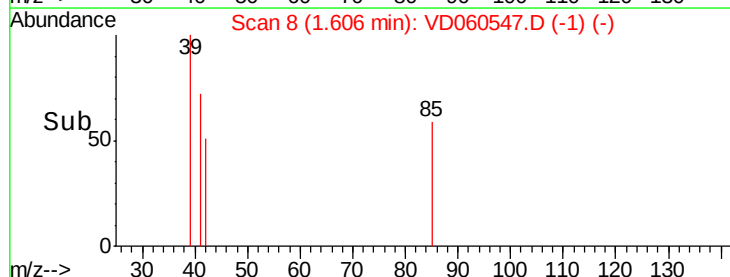
300

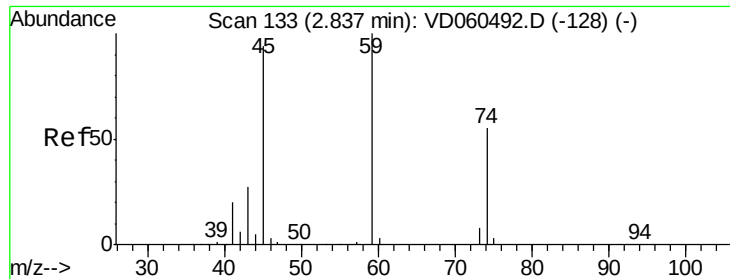
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.702 ug/l

RT: 2.84 min Scan# 133

Delta R.T. -0.00 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

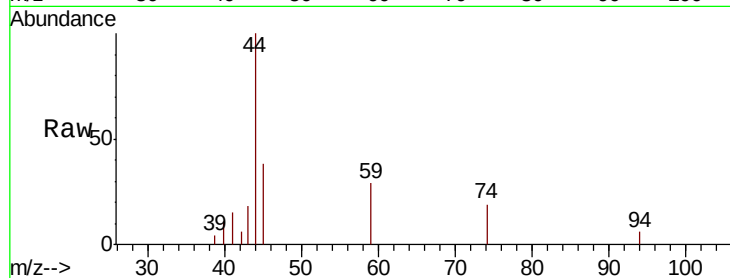
SOIL

Tot Ion: 74 Resp: 2583

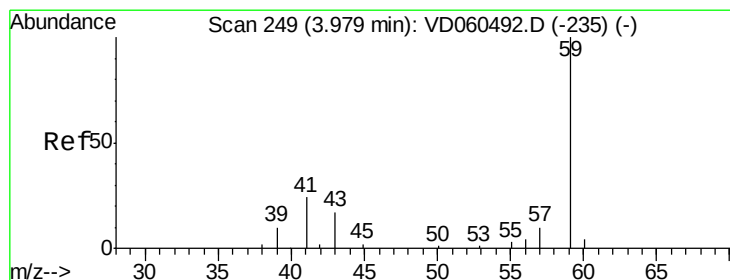
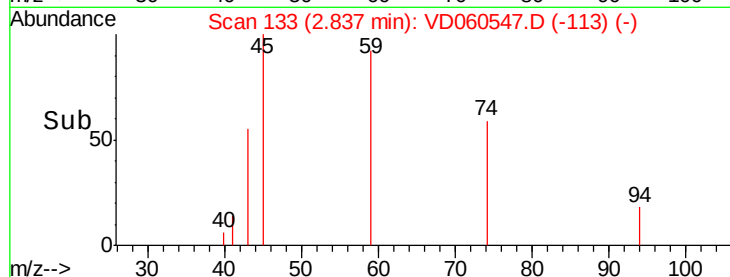
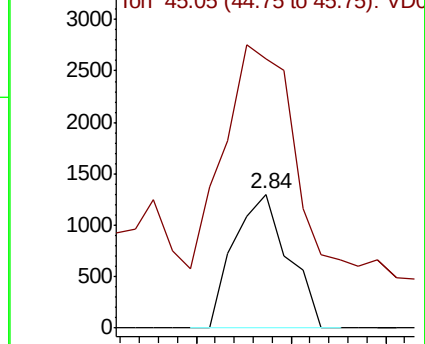
Ion Ratio Lower Upper

74 100

45 200.8 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC



#11

Tert butyl alcohol

Concen: 1.759 ug/l

RT: 3.96 min Scan# 247

Delta R.T. -0.02 min

Lab File: VD060547.D

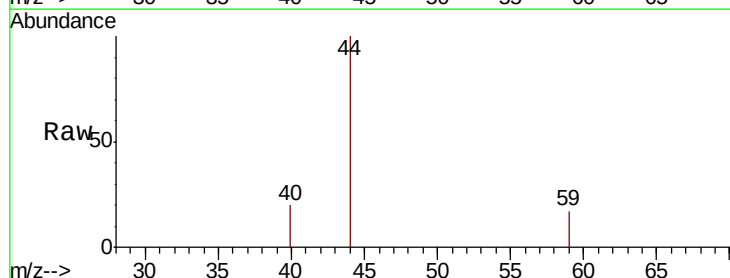
Acq: 12 Dec 2018 15:17

Tgt Ion: 59 Resp: 470

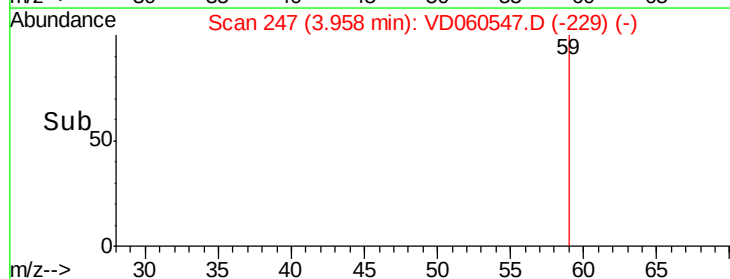
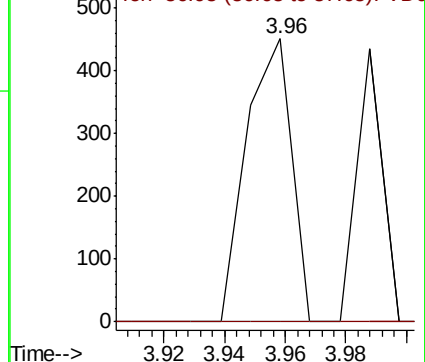
Ion Ratio Lower Upper

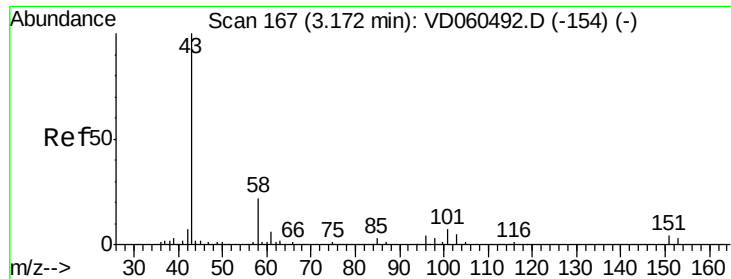
59 100

57 0.0 8.1 12.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC





#16

Acetone

Concen: 69.145 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

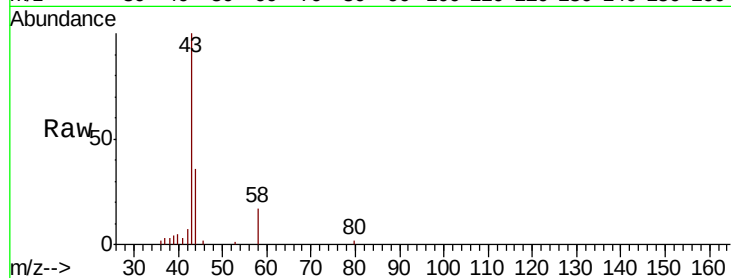
SOIL

Tot Ion: 43 Resp: 72879

Ion Ratio Lower Upper

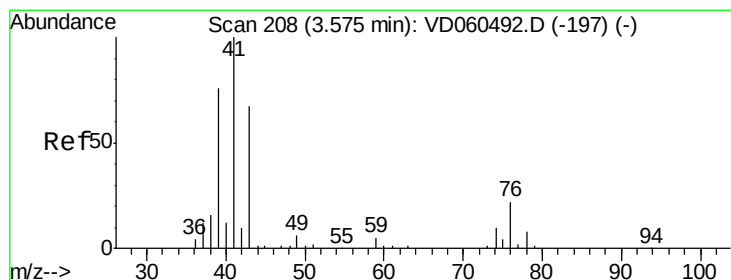
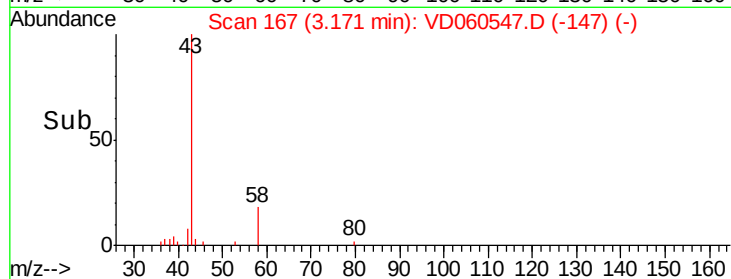
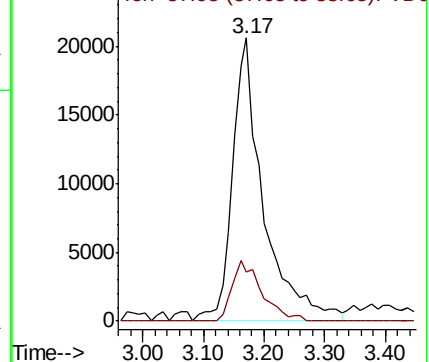
43 100

58 17.4 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 14.282 ug/l

RT: 3.55 min Scan# 206

Delta R.T. -0.02 min

Lab File: VD060547.D

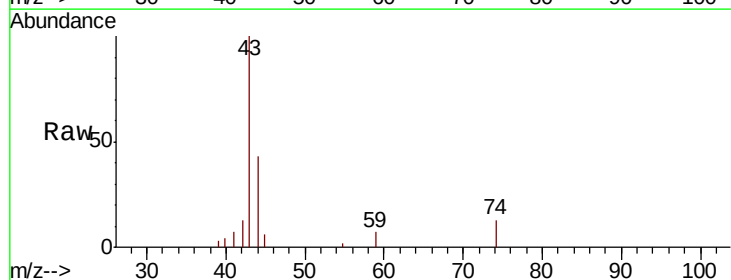
Acq: 12 Dec 2018 15:17

Tgt Ion: 43 Resp: 35777

Ion Ratio Lower Upper

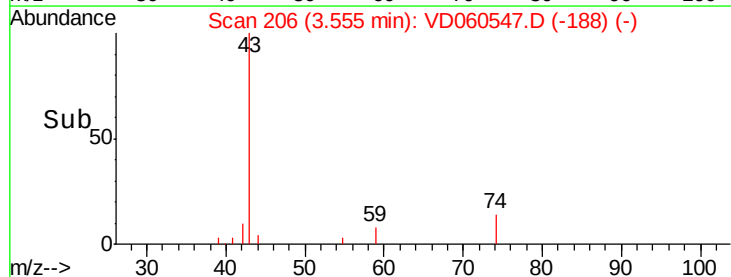
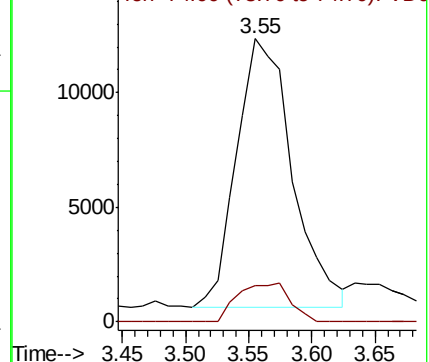
43 100

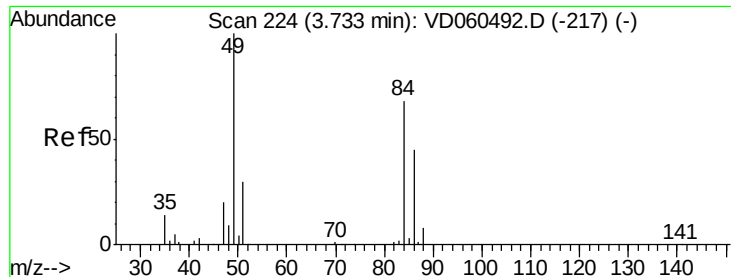
74 12.9 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

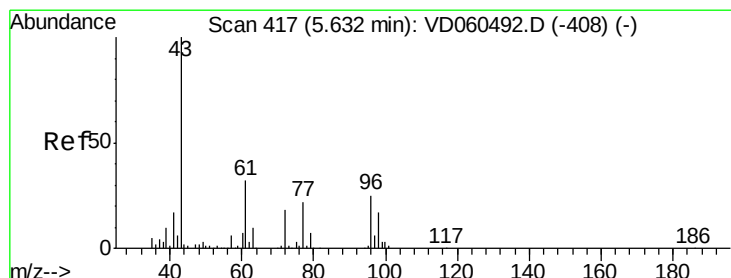
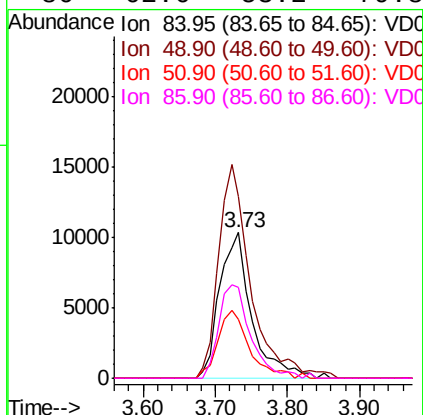
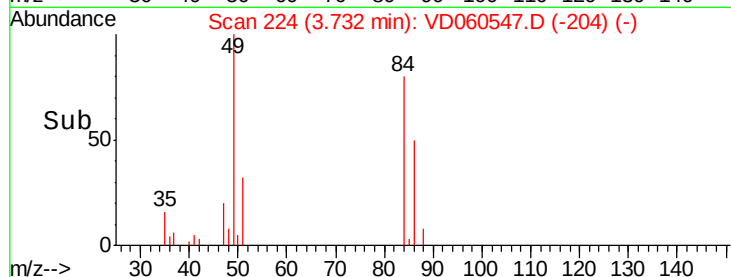
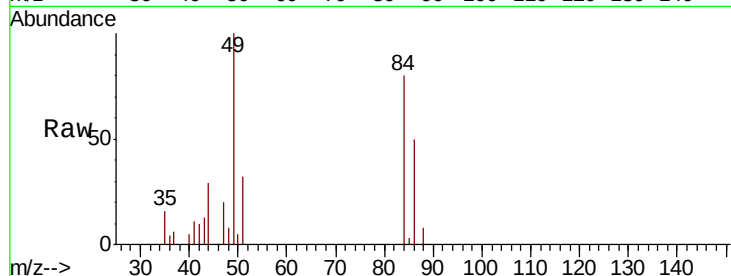




#20
Methylene Chloride
Concen: Below Cal
RT: 3.73 min Scan# 224
Delta R.T. 0.00 min
Lab File: VD060547.D
Acq: 12 Dec 2018 15:17

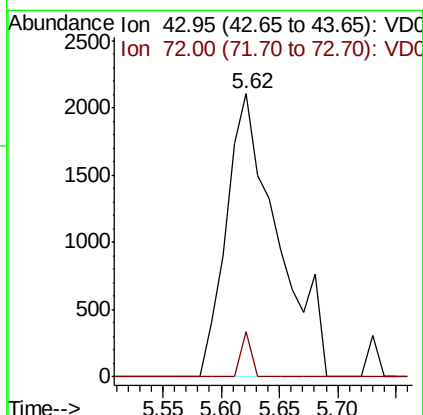
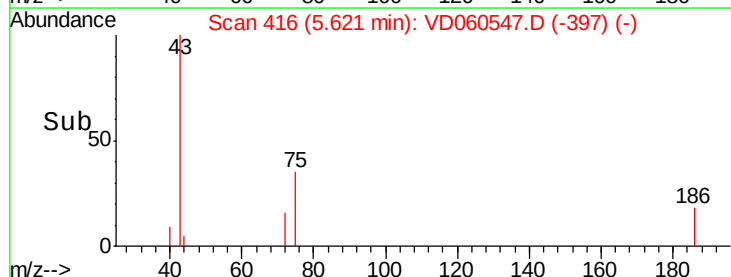
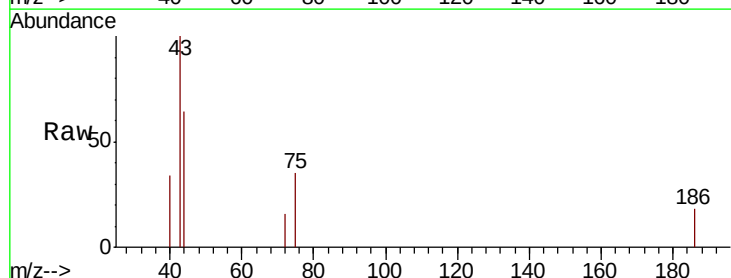
Instrument :
MSVOA_D
ClientSampled :
SOIL

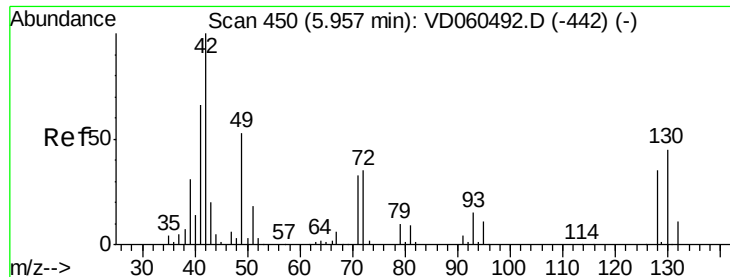
Tot Ion: 84 Resp: 31874
Ion Ratio Lower Upper
84 100
49 124.9 117.2 175.8
51 40.6 35.3 52.9
86 62.6 53.2 79.8



#25
2-Butanone
Concen: 3.082 ug/l
RT: 5.62 min Scan# 416
Delta R.T. -0.01 min
Lab File: VD060547.D
Acq: 12 Dec 2018 15:17

Tgt Ion: 43 Resp: 6390
Ion Ratio Lower Upper
43 100
72 16.2 14.6 21.8





#29

Tetrahydrofuran

Concen: 1.643 ug/l

RT: 5.95 min Scan# 449

Delta R.T. -0.01 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

SOIL

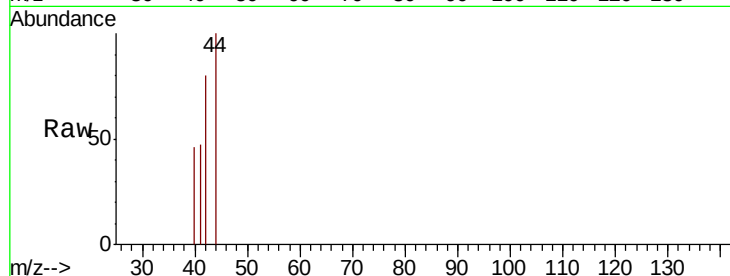
Tot Ion: 42 Resp: 1929

Ion Ratio Lower Upper

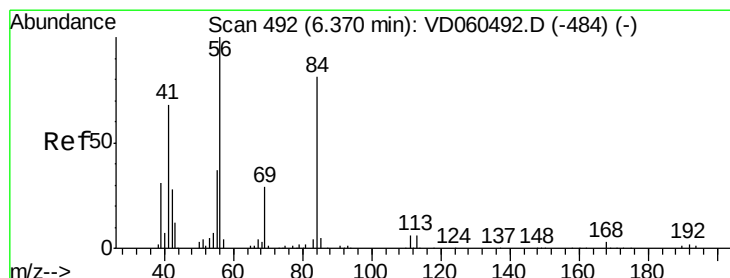
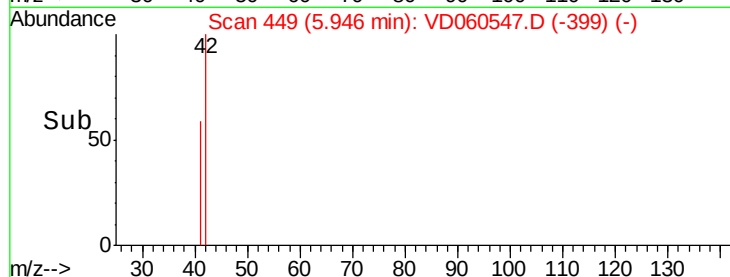
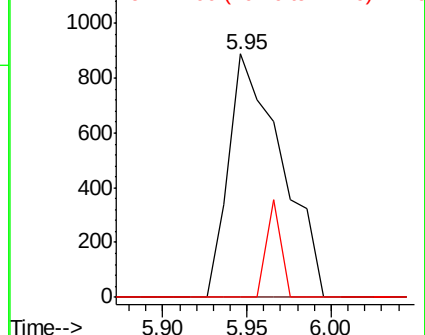
42 100

72 0.0 28.0 42.0#

71 10.9 27.2 40.8#



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: Below Cal

RT: 6.40 min Scan# 495

Delta R.T. 0.03 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

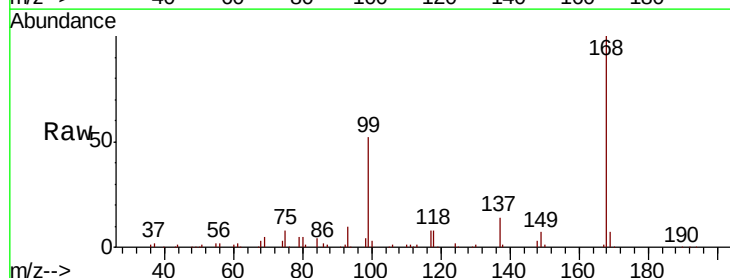
Tgt Ion: 56 Resp: 20361

Ion Ratio Lower Upper

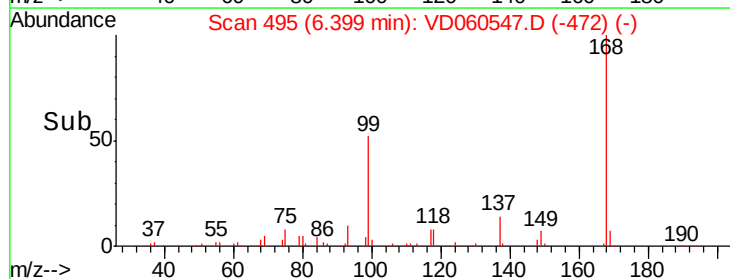
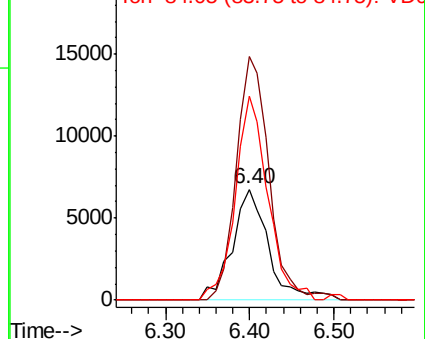
56 100

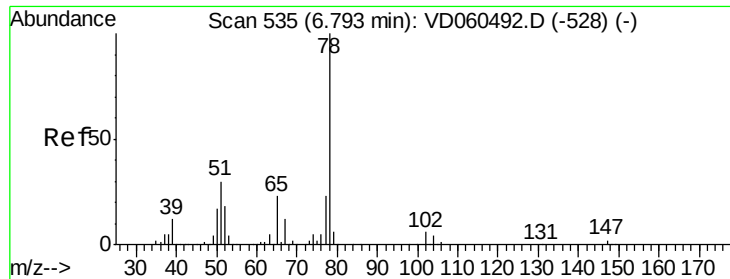
69 219.3 22.8 34.2#

84 183.7 65.1 97.7#



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

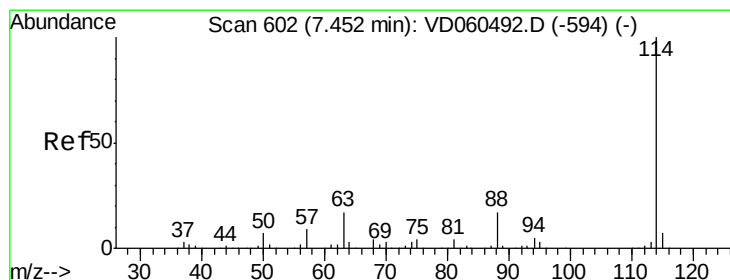
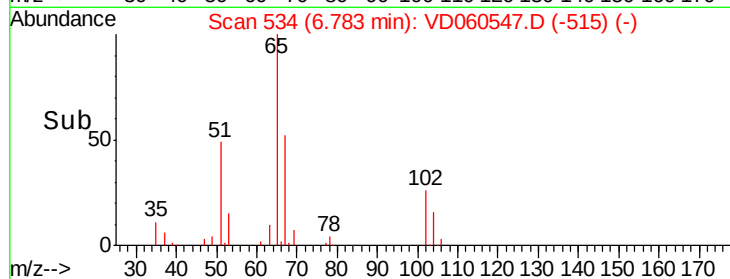
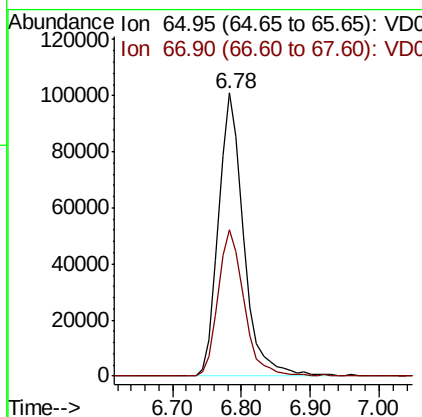
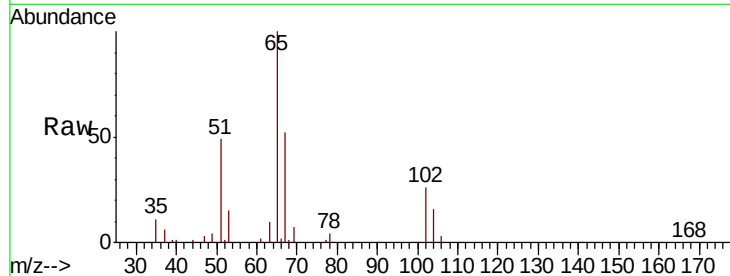




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.78 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VD060547.D
 Acq: 12 Dec 2018 15:17

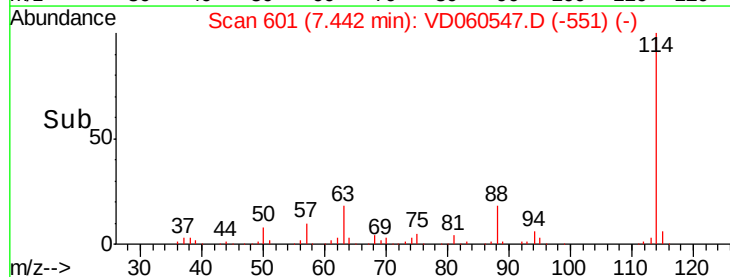
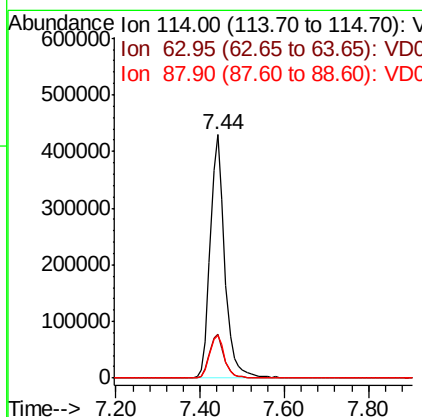
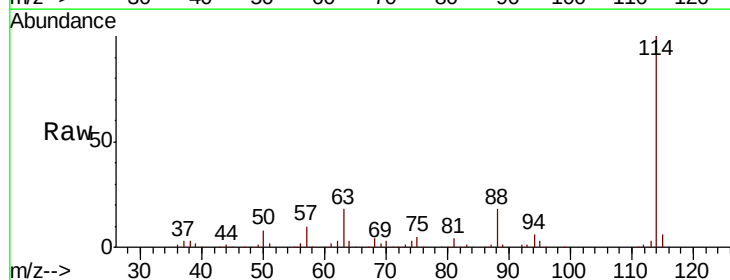
Instrument :
 MSVOA_D
 ClientSampled :
 SOIL

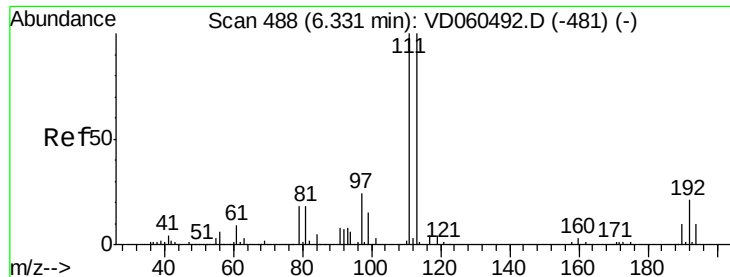
Tot Ion: 65 Resp: 256009
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. -0.01 min
 Lab File: VD060547.D
 Acq: 12 Dec 2018 15:17

Tgt Ion: 114 Resp: 1031896
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 34.2
 88 17.7 0.0 35.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 487

Delta R.T. -0.01 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampled :

SOIL

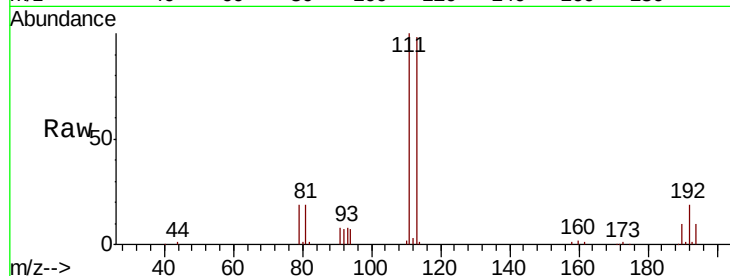
Tot Ion:113 Resp: 355410

Ion Ratio Lower Upper

113 100

111 101.8 80.2 120.4

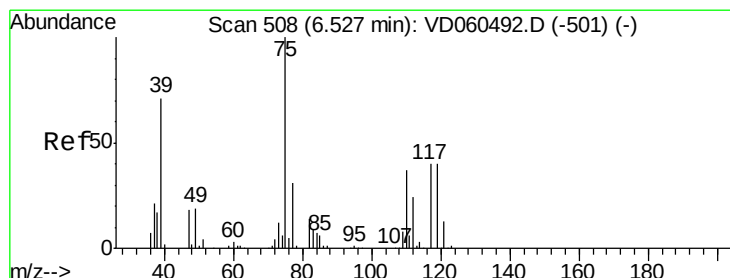
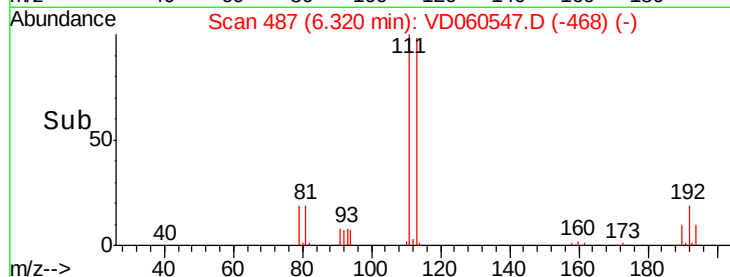
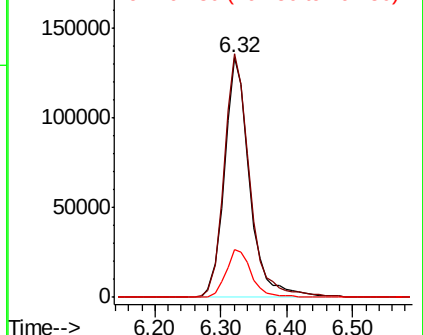
192 19.7 16.6 24.8



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: 6.684 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.13 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

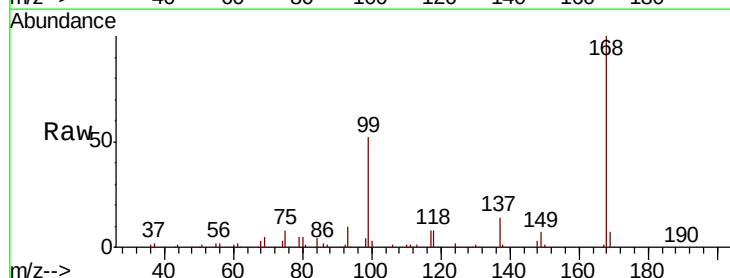
Tgt Ion: 75 Resp: 67415

Ion Ratio Lower Upper

75 100

110 7.6 18.3 54.8#

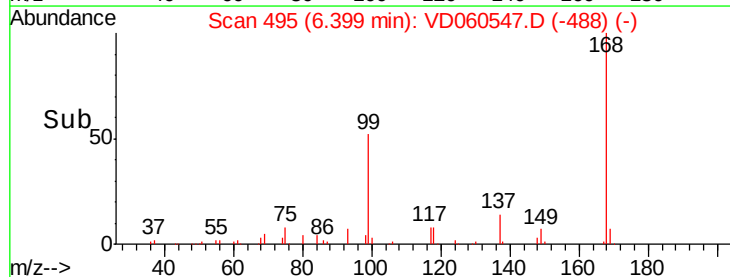
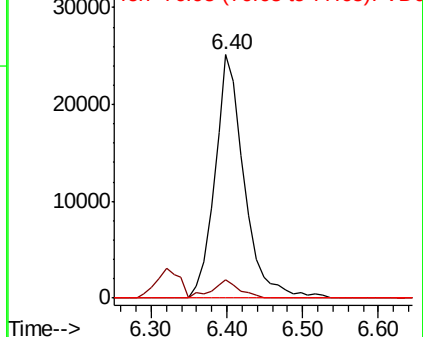
77 0.0 24.6 37.0#

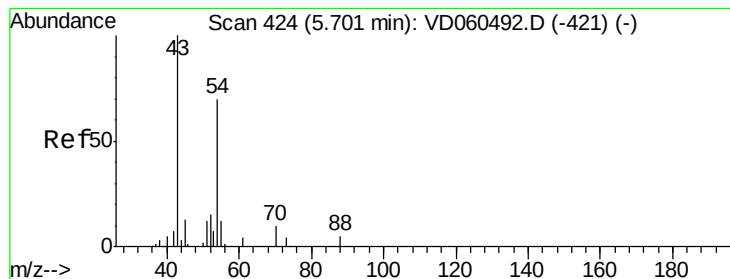


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 1.461 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.08 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampled :

SOIL

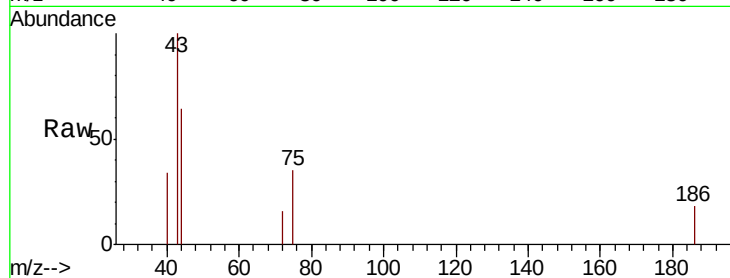
Tot Ion: 43 Resp: 6390

Ion Ratio Lower Upper

43 100

61 0.0 12.4 18.6#

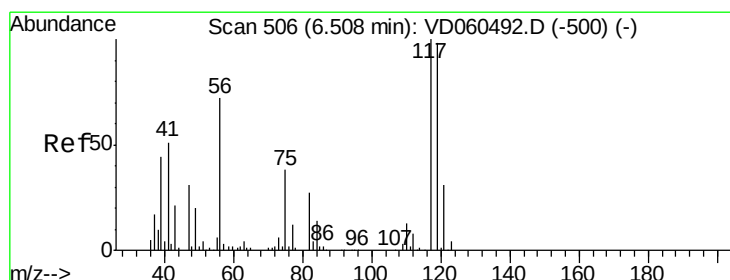
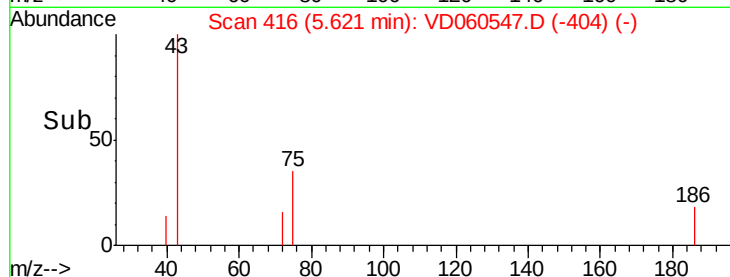
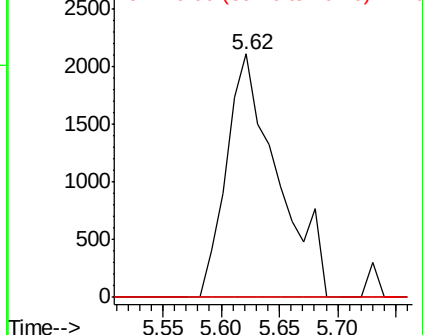
70 0.0 5.4 8.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 8.222 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.11 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

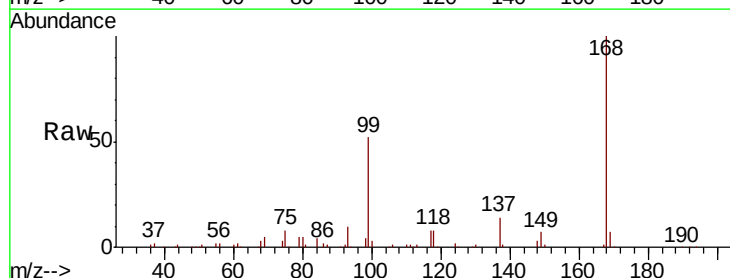
Tgt Ion: 117 Resp: 74451

Ion Ratio Lower Upper

117 100

119 4.5 76.8 115.2#

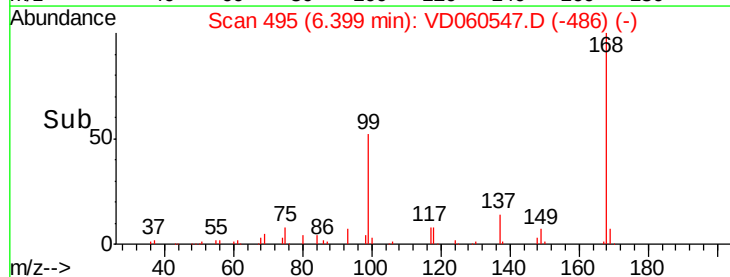
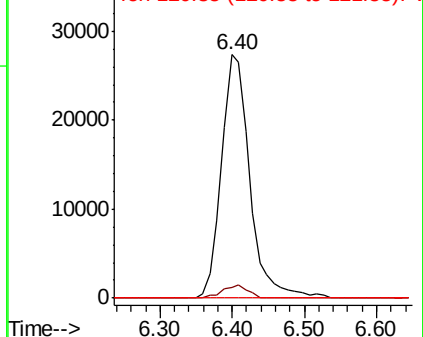
121 0.0 24.4 36.6#

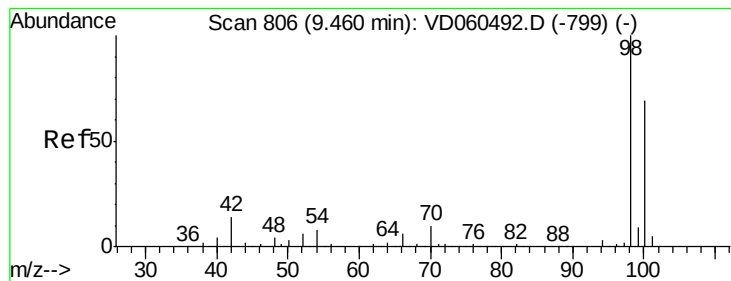


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.45 min Scan# 805

Delta R.T. -0.01 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

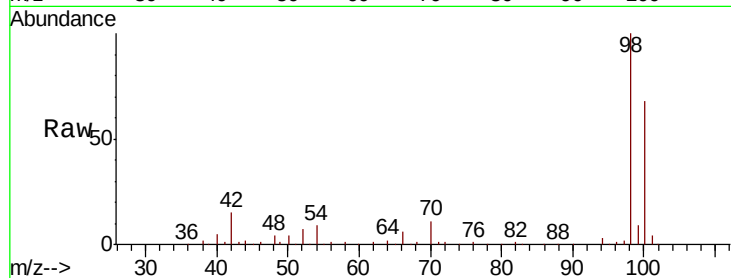
Instrument :
MSVOA_D
ClientSampled :
SOIL

Tot Ion: 98 Resp: 696923

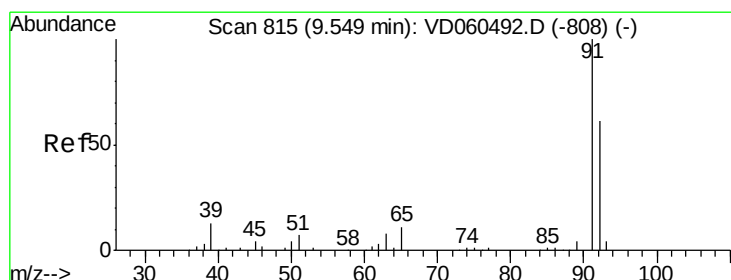
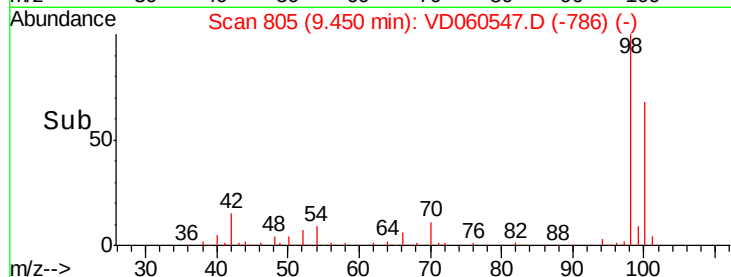
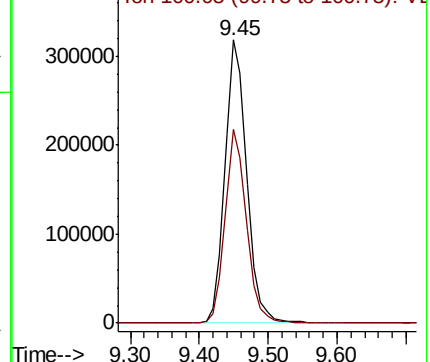
Ion Ratio Lower Upper

98 100

100 68.3 55.7 83.5



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



#52

Toluene

Concen: 3.491 ug/l

RT: 9.55 min Scan# 815

Delta R.T. -0.00 min

Lab File: VD060547.D

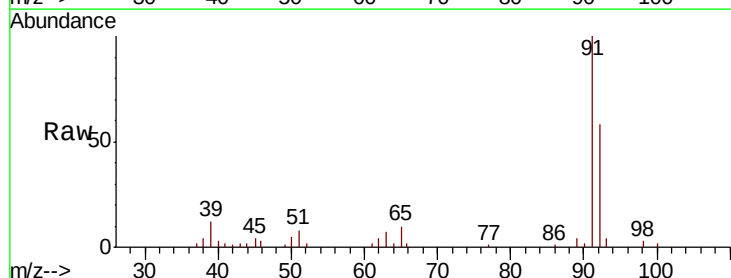
Acq: 12 Dec 2018 15:17

Tgt Ion: 92 Resp: 56254

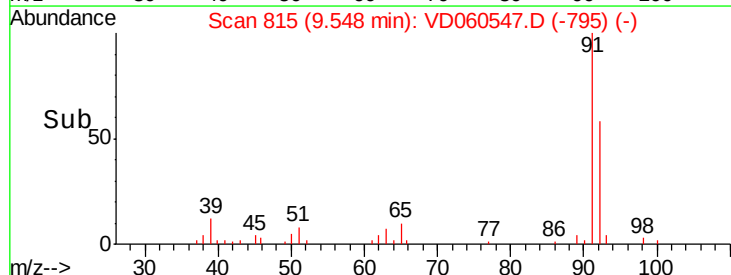
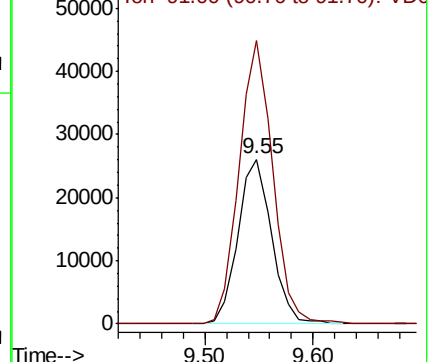
Ion Ratio Lower Upper

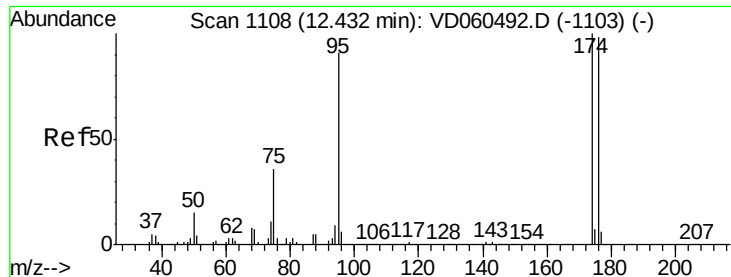
92 100

91 171.6 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampled :

SOIL

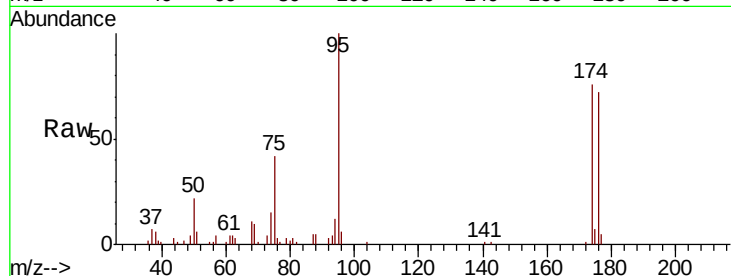
Tot Ion: 95 Resp: 73365

Ion Ratio Lower Upper

95 100

174 76.1 0.0 219.4

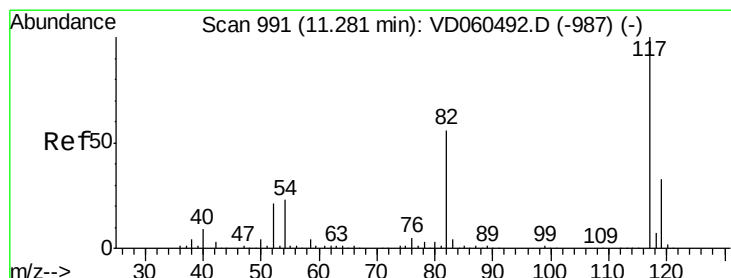
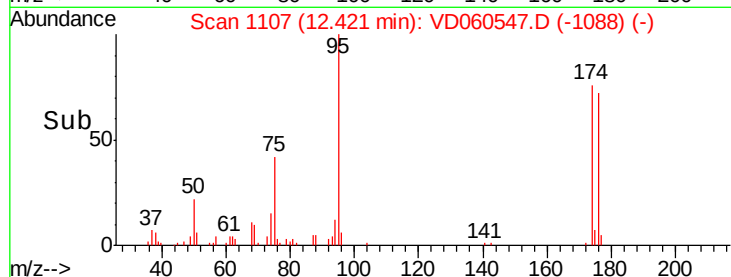
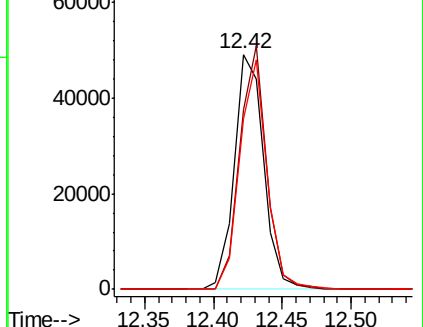
176 72.3 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.28 min Scan# 991

Delta R.T. -0.00 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

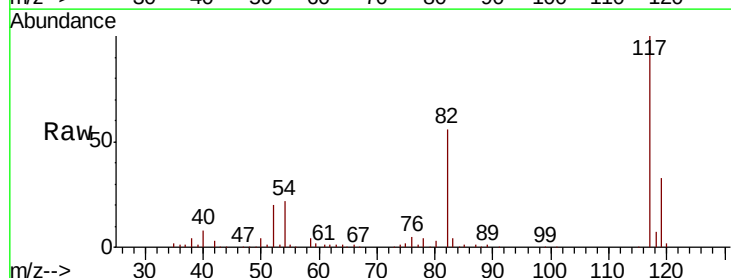
Tgt Ion: 117 Resp: 350479

Ion Ratio Lower Upper

117 100

82 56.4 45.2 67.8

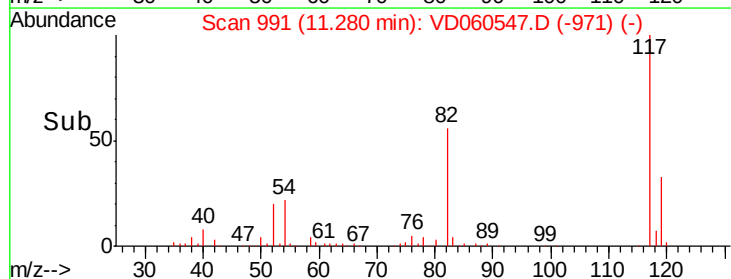
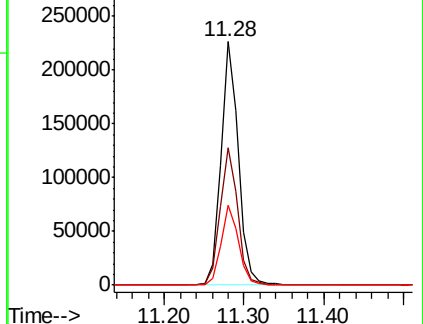
119 32.6 26.1 39.1

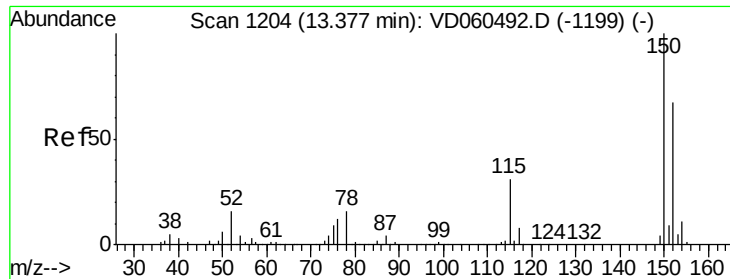


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.38 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD060547.D

Acq: 12 Dec 2018 15:17

Instrument :

MSVOA_D

ClientSampleId :

SOIL

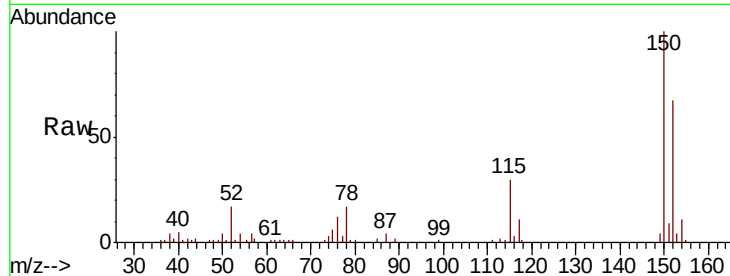
Tot Ion:152 Resp: 53896

Ion Ratio Lower Upper

152 100

115 45.5 24.6 74.0

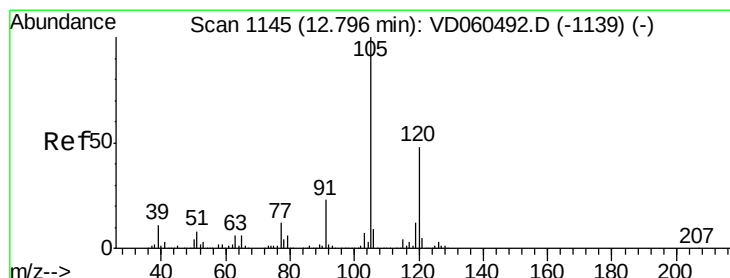
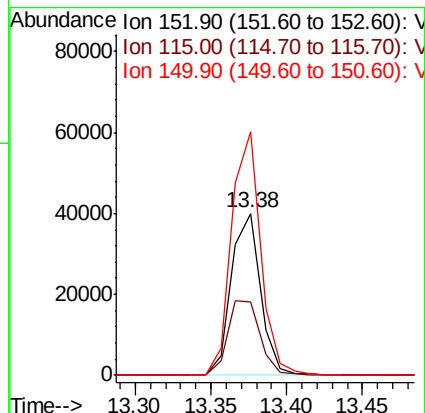
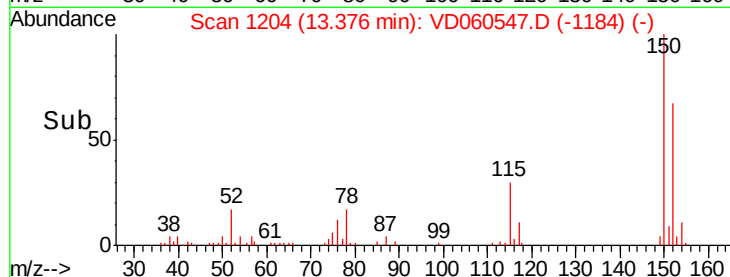
150 150.1 0.0 309.0



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



#80

1,3,5-Trimethylbenzene

Concen: 1.133 ug/l

RT: 12.80 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VD060547.D

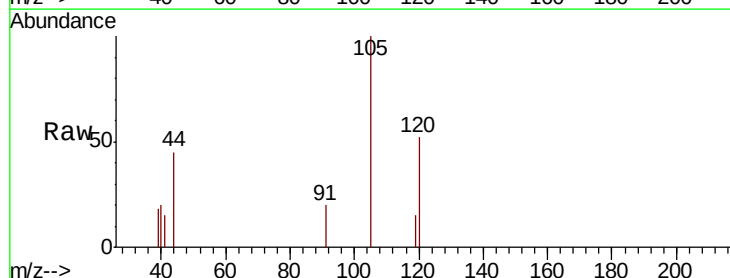
Acq: 12 Dec 2018 15:17

Tgt Ion:105 Resp: 3303

Ion Ratio Lower Upper

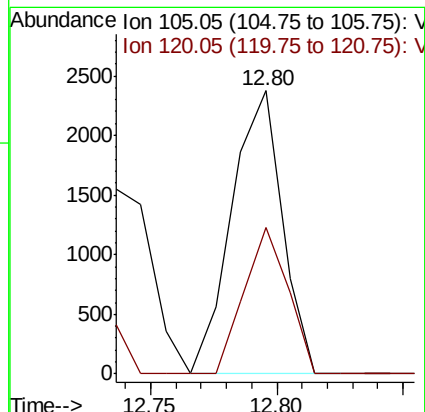
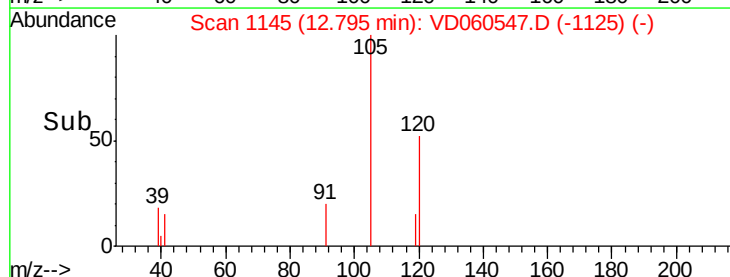
105 100

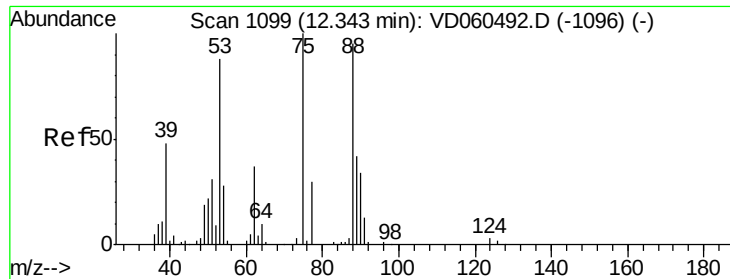
120 51.6 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

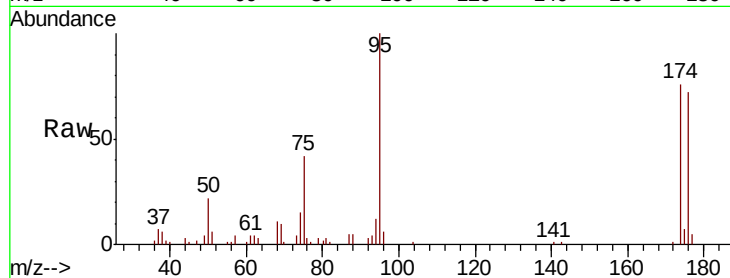




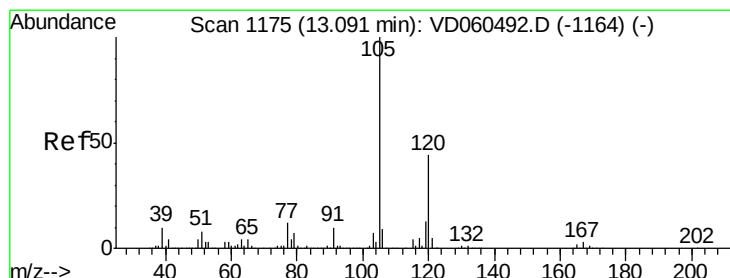
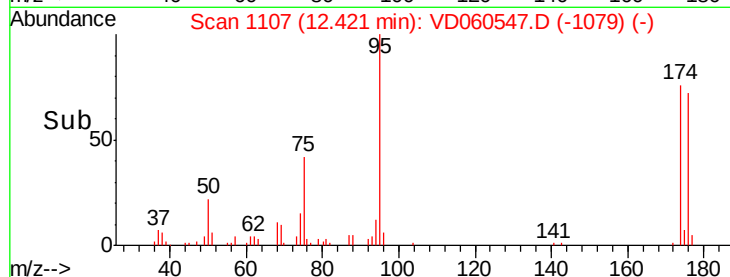
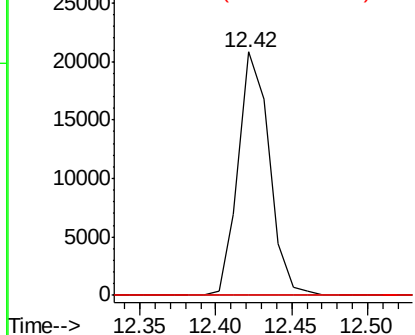
#81
trans-1,4-Dichloro-2-butene
Concen: 175.170 ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.08 min
Lab File: VD060547.D
Acq: 12 Dec 2018 15:17

Instrument :
MSVOA_D
ClientSampled :
SOIL

Tot Ion: 75 Resp: 29835
Ion Ratio Lower Upper
75 100
53 0.0 70.5 105.7#
89 0.0 33.6 50.4#

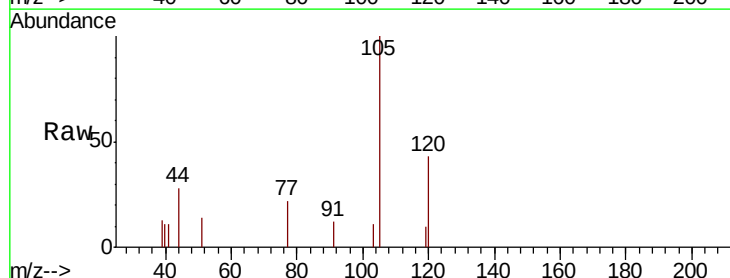


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

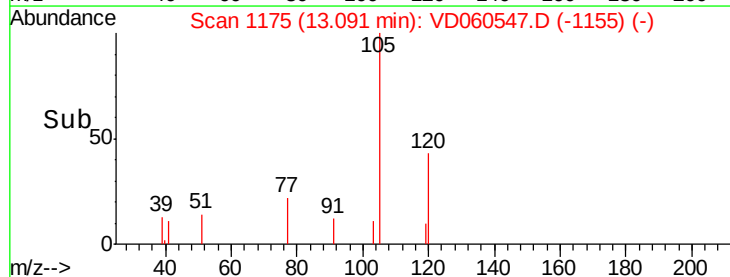
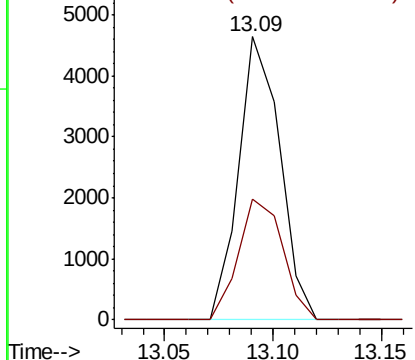


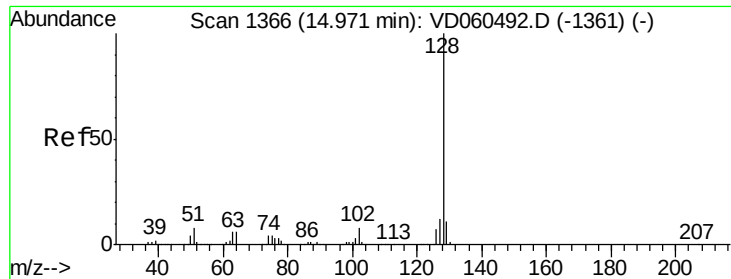
#84
1,2,4-Trimethylbenzene
Concen: 2.033 ug/l
RT: 13.09 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VD060547.D
Acq: 12 Dec 2018 15:17

Tgt Ion:105 Resp: 6134
Ion Ratio Lower Upper
105 100
120 42.9 22.3 66.8



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

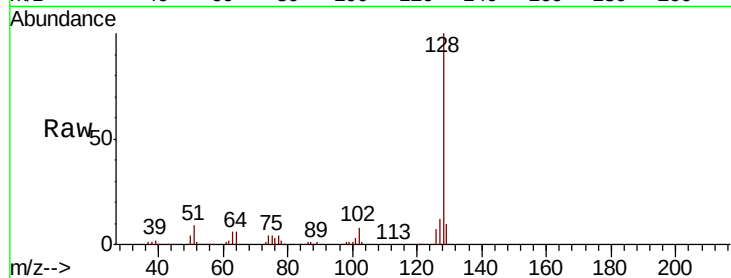




#95
Naphthalene
Concen: 250.457 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VD060547.D
Acq: 12 Dec 2018 15:17

Instrument :
MSVOA_D
ClientSampleId :
SOIL

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8
129	10.2	8.6	13.0



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

