

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\
 Data File : VD063101.D
 Acq On : 16 Jul 2019 12:48
 Operator : VA/AP
 Sample : K3761-01
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-DRUM

Quant Time: Jul 17 07:34:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	664760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	907478	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	704042	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	327753	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	379593	45.84	ug/l	0.00
Spiked Amount			Recovery	=	91.68%	
35) Dibromofluoromethane	6.92	113	406225	44.94	ug/l	0.00
Spiked Amount			Recovery	=	89.88%	
50) Toluene-d8	10.40	98	791000	40.74	ug/l	0.00
Spiked Amount			Recovery	=	81.48%	
62) 4-Bromofluorobenzene	13.55	95	385408	42.91	ug/l	0.00
Spiked Amount			Recovery	=	85.82%	

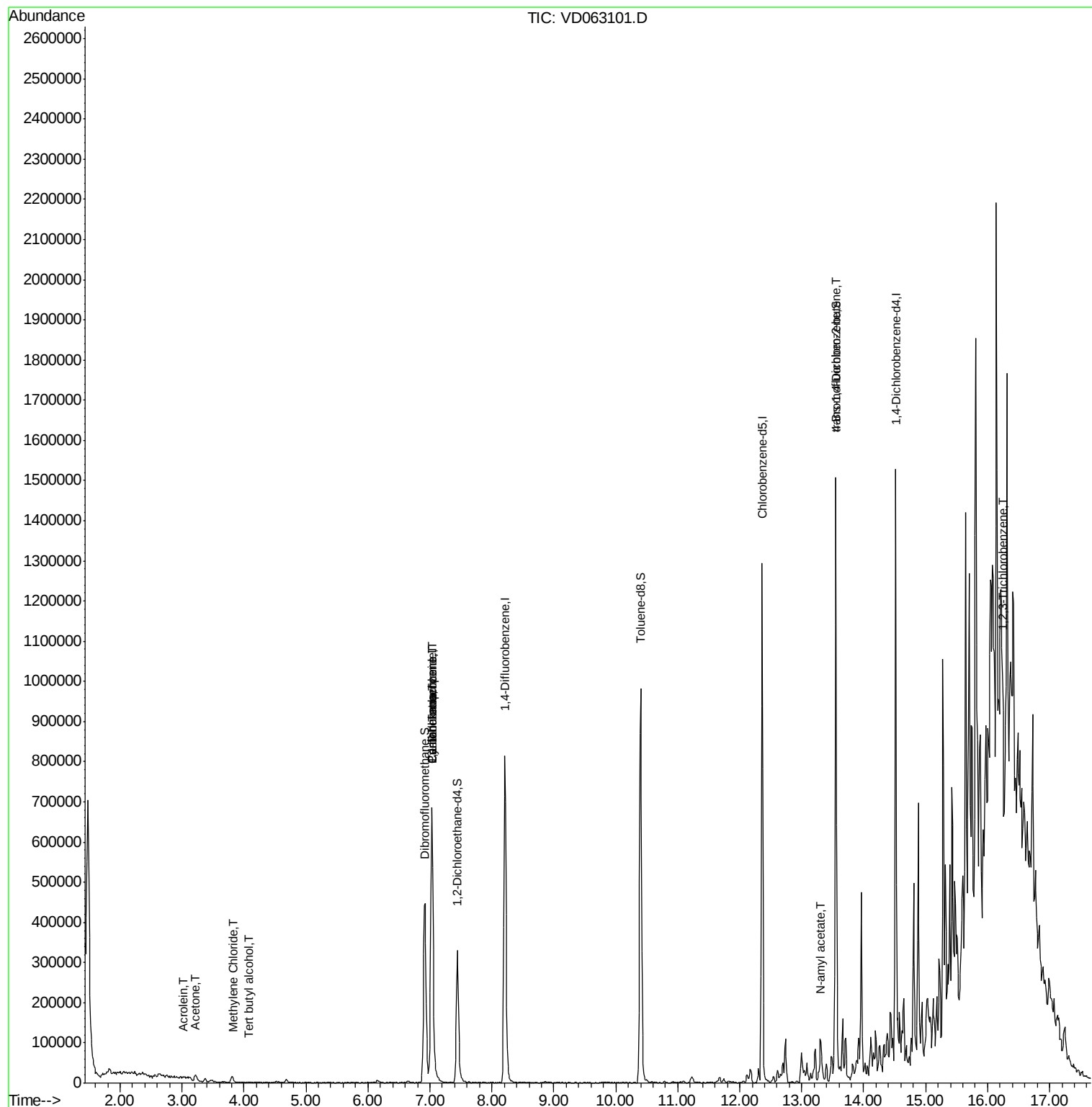
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	2834	Below Cal		86
3) Chloromethane	1.74	50	1006	Below Cal	#	48
5) Bromomethane	2.16	94	2495	Below Cal	#	39
11) Tert butyl alcohol	4.06	59	2297	4.806	ug/l #	77
13) Acrolein	3.02	56	315	2.184	ug/l #	17
16) Acetone	3.22	43	37049	18.524	ug/l #	87
18) Methyl Acetate	3.62	43	1257	Below Cal	#	63
20) Methylene Chloride	3.81	84	8924	1.181	ug/l #	71
31) Cyclohexane	7.04	56	16240	2.060	ug/l #	21
36) 1,1-Dichloropropene	7.04	75	54179	5.308	ug/l #	51
38) Carbon Tetrachloride	7.04	117	66748	4.304	ug/l #	12
74) N-amyl acetate	13.30	43	12763	1.808	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	181628	136.800	ug/l #	1
96) 1,2,3-Trichlorobenzene	16.25	180	13538	1.962	ug/l #	26

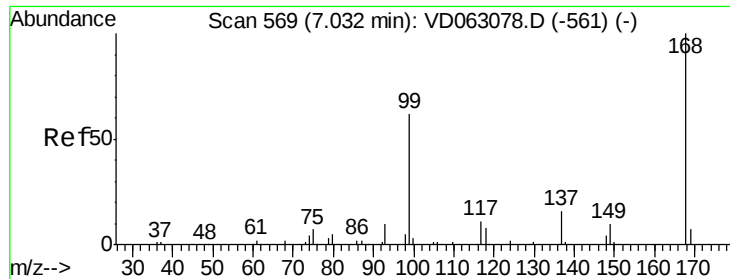
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

Instrument :

MSVOA_D

ClientSampleId :

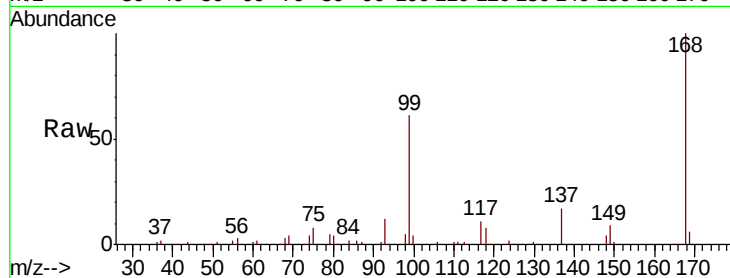
SOIL-DRUM

Tot Ion:168 Resp: 664760

Ion Ratio Lower Upper

168 100

99 61.3 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

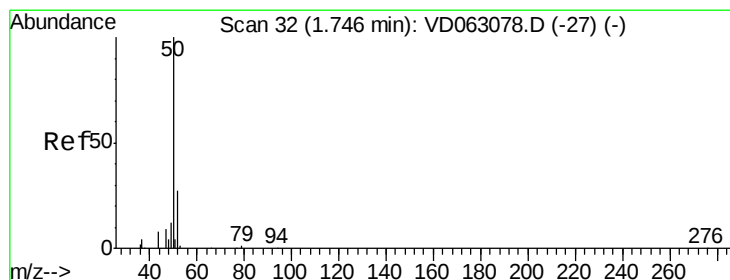
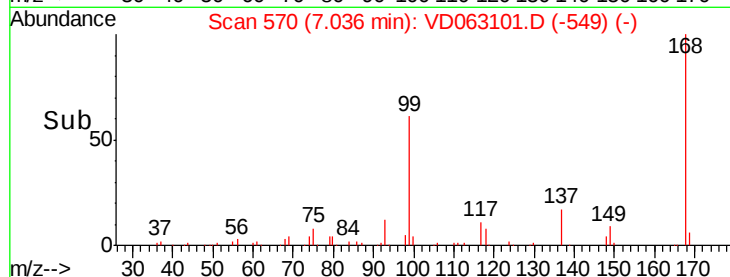
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063101.D

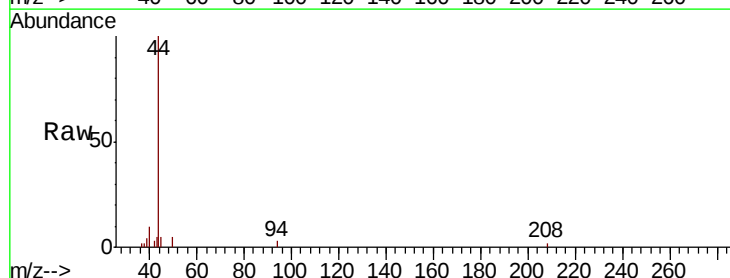
Acq: 16 Jul 2019 12:48

Tgt Ion: 50 Resp: 1006

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

800

600

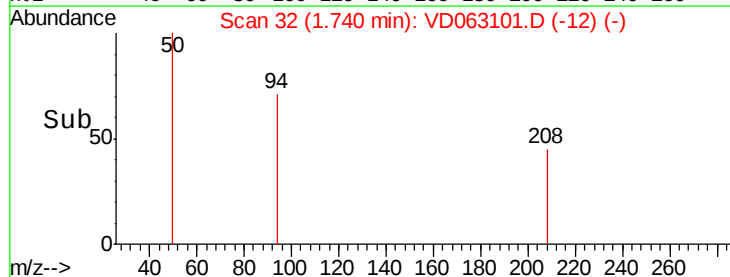
400

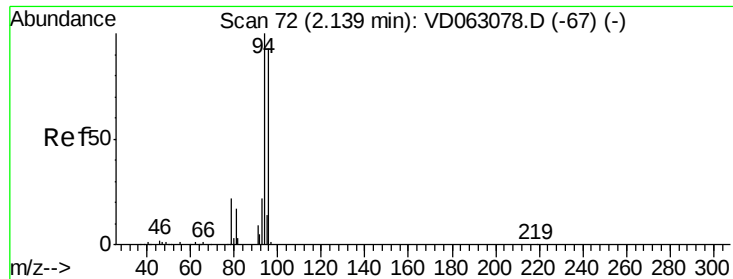
200

0

1.70 1.75 1.80

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

Instrument :

MSVOA_D

ClientSampleId :

SOIL-DRUM

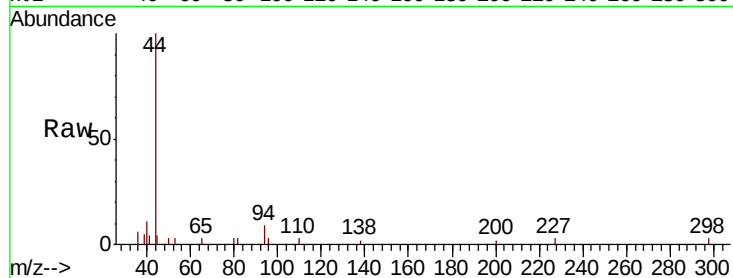
Tot Ion: 94 Resp: 2495

Ion Ratio Lower Upper

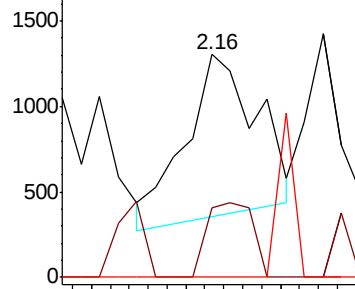
94 100

96 31.0 74.2 111.2#

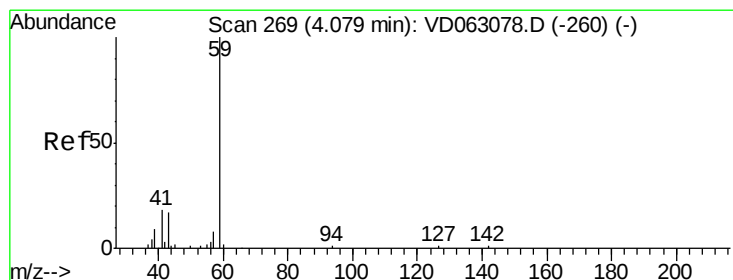
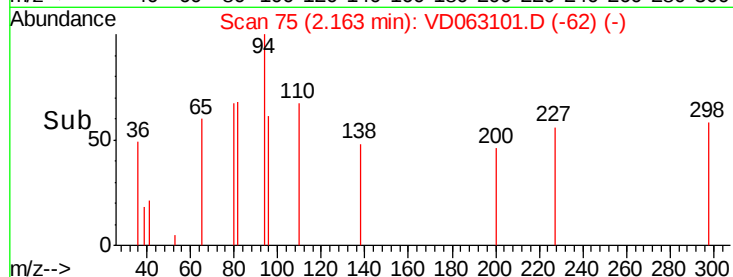
93 0.0 17.8 26.6#



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



Time-->



#11

Tert butyl alcohol

Concen: 4.806 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.02 min

Lab File: VD063101.D

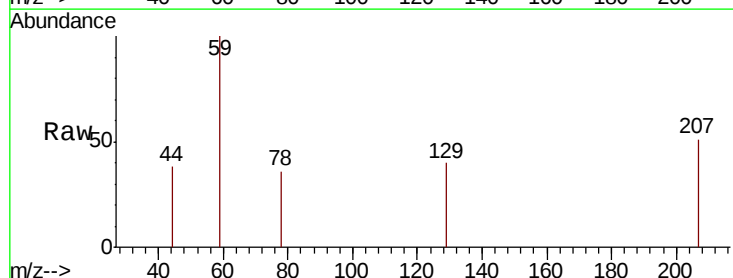
Acq: 16 Jul 2019 12:48

Tgt Ion: 59 Resp: 2297

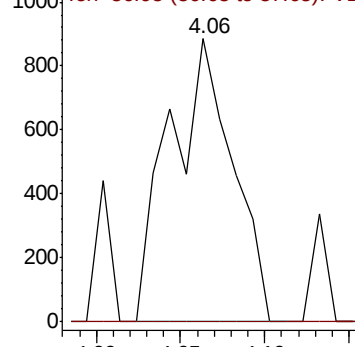
Ion Ratio Lower Upper

59 100

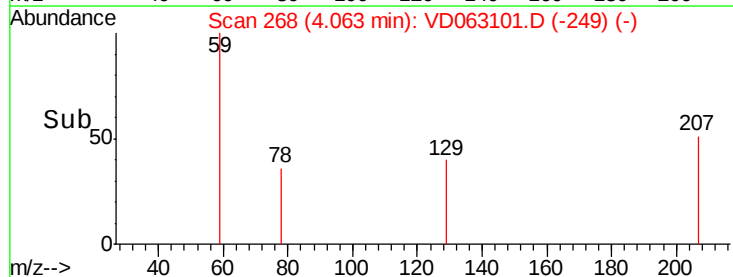
57 0.0 6.4 9.6#

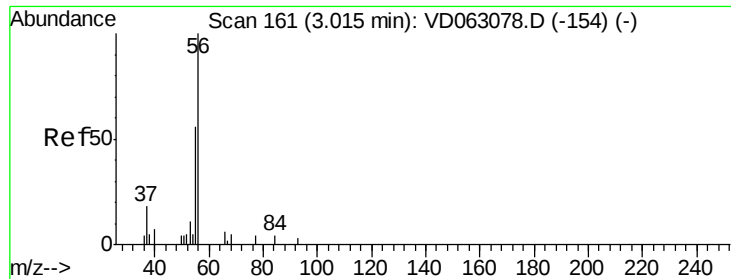


Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



Time-->





#13

Acrolein

Concen: 2.184 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

Instrument :

MSVOA_D

ClientSampleId :

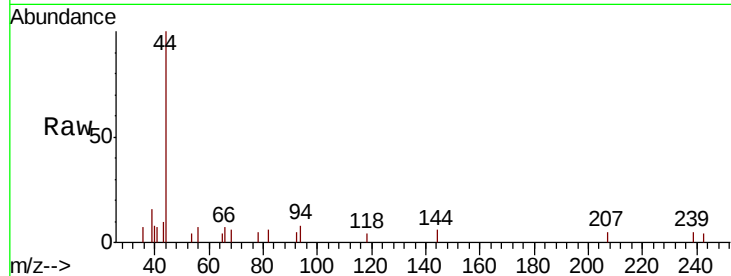
SOIL-DRUM

Tot Ion: 56 Resp: 315

Ion Ratio Lower Upper

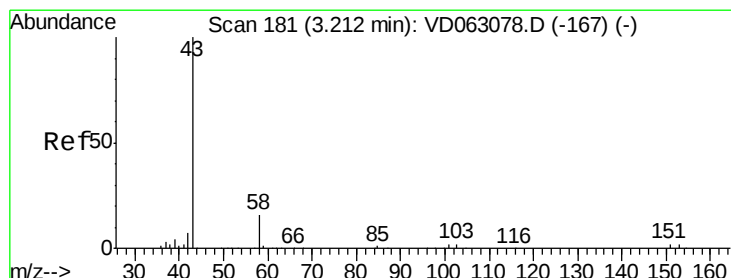
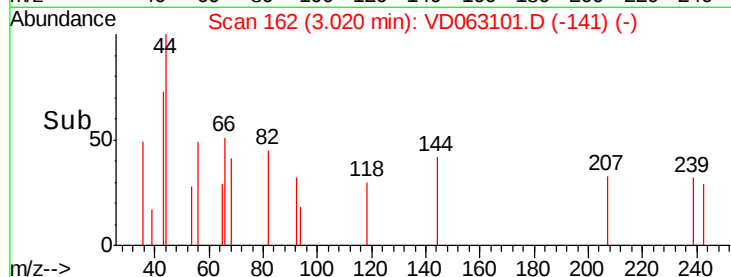
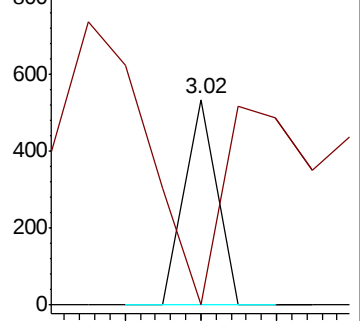
56 100

55 0.0 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 18.524 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063101.D

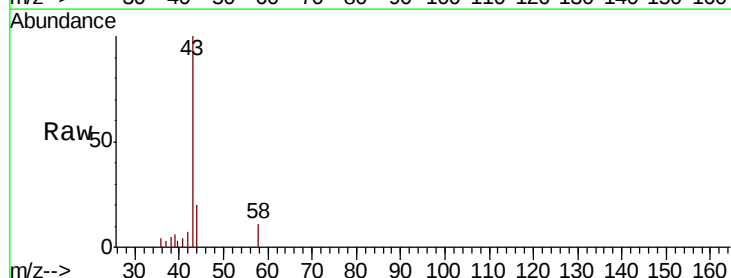
Acq: 16 Jul 2019 12:48

Tgt Ion: 43 Resp: 37049

Ion Ratio Lower Upper

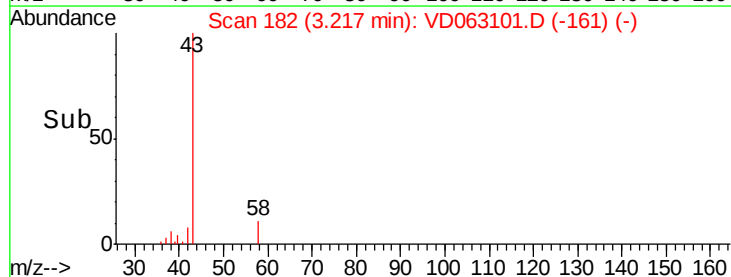
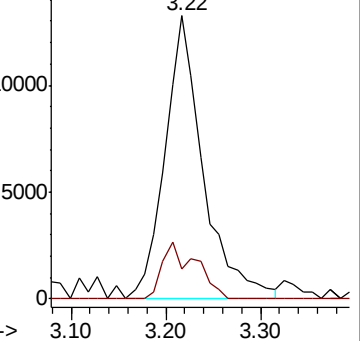
43 100

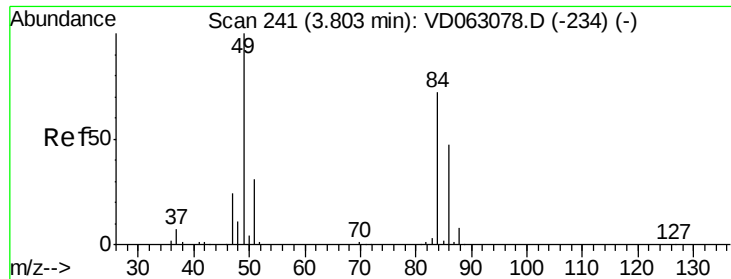
58 10.5 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

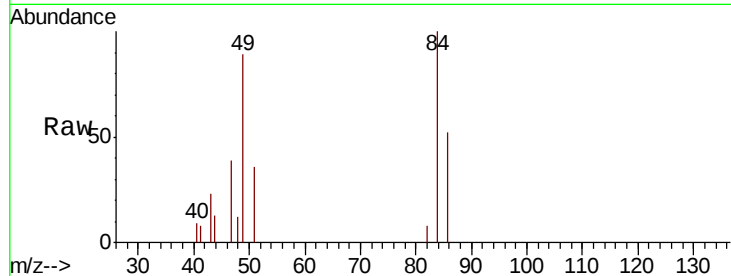




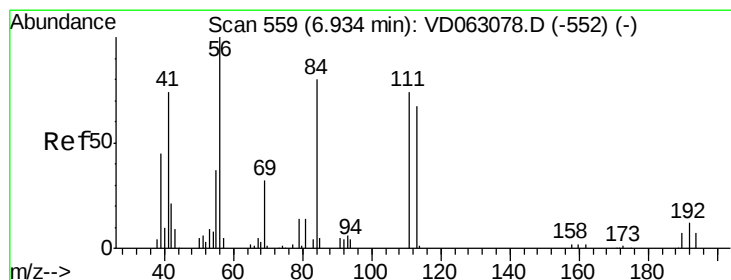
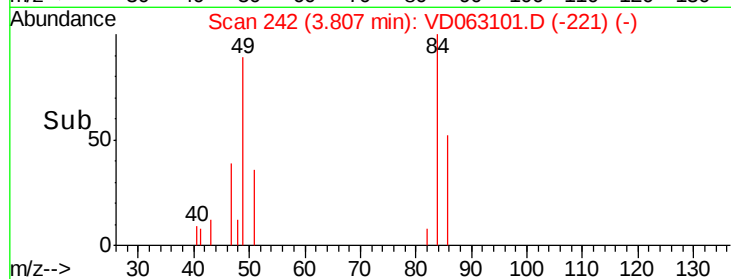
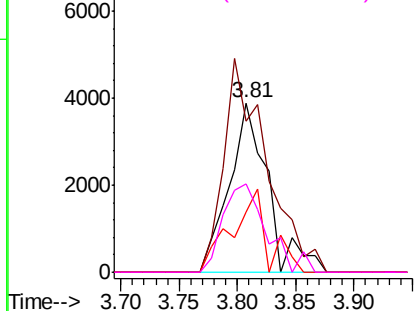
#20
Methylene Chloride
Concen: 1.181 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD063101.D
Acq: 16 Jul 2019 12:48

Instrument :
MSVOA_D
ClientSampleId :
SOIL-DRUM

Tot Ion: 84 Resp: 8924
Ion Ratio Lower Upper
84 100
49 89.3 110.5 165.7#
51 35.7 34.6 51.8
86 52.4 51.6 77.4

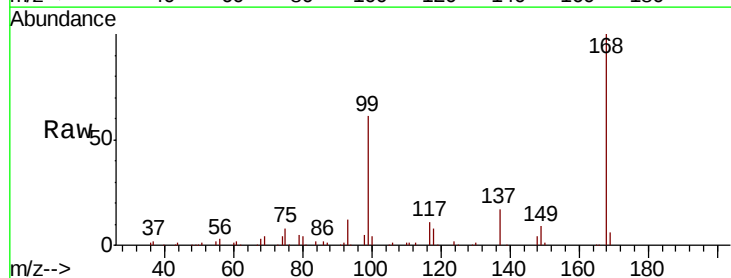


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

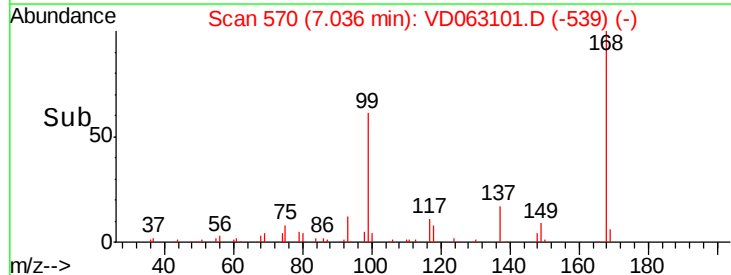
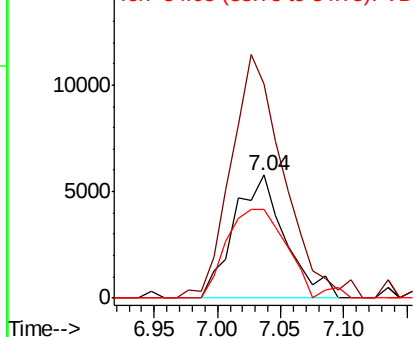


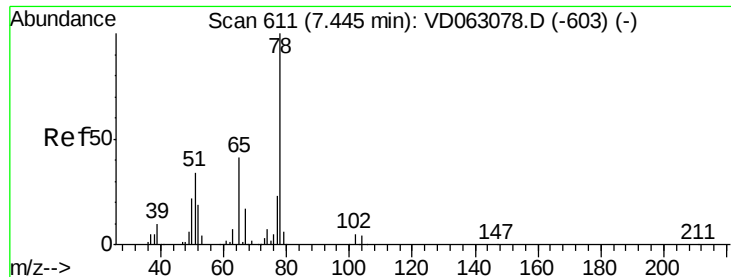
#31
Cyclohexane
Concen: 2.060 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.10 min
Lab File: VD063101.D
Acq: 16 Jul 2019 12:48

Tgt Ion: 56 Resp: 16240
Ion Ratio Lower Upper
56 100
69 174.6 25.3 37.9#
84 72.3 64.2 96.4



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: 45.840 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

Instrument :

MSVOA_D

ClientSampleId :

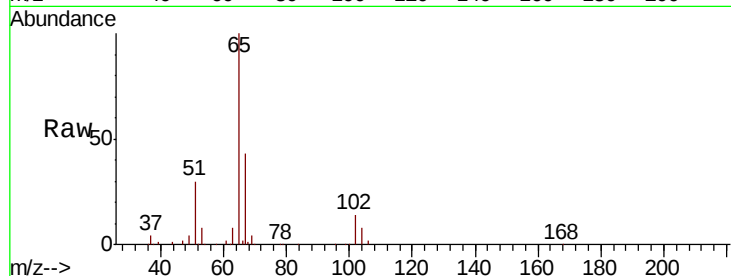
SOIL-DRUM

Tot Ion: 65 Resp: 379593

Ion Ratio Lower Upper

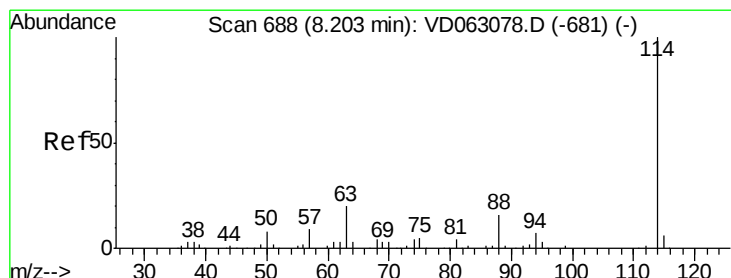
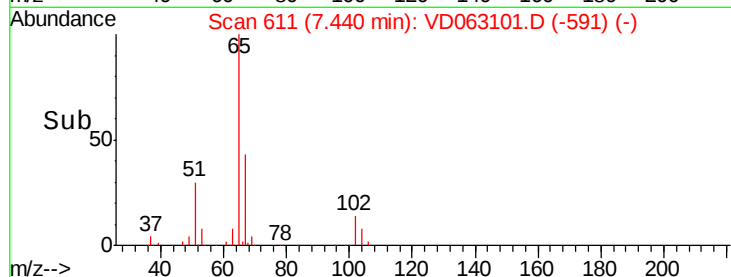
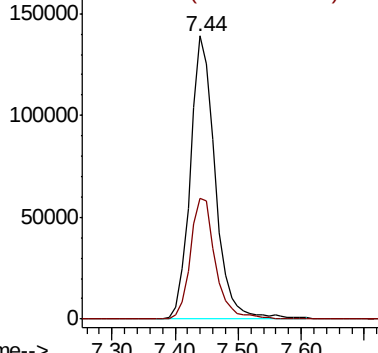
65 100

67 42.6 0.0 86.0



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: 8.21 min Scan# 688

Delta R.T. 0.00 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

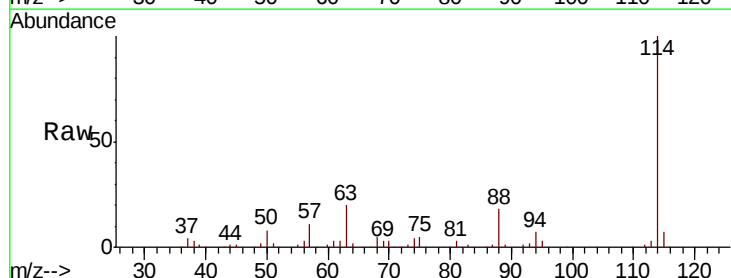
Tgt Ion: 114 Resp: 907478

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.6

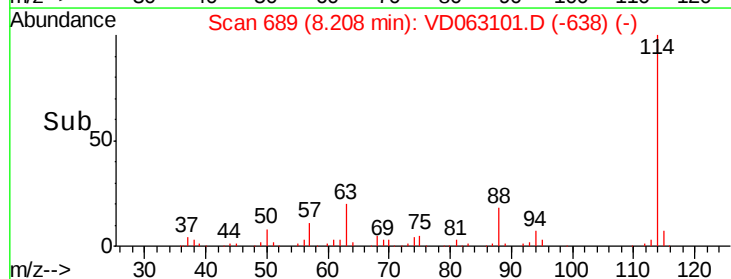
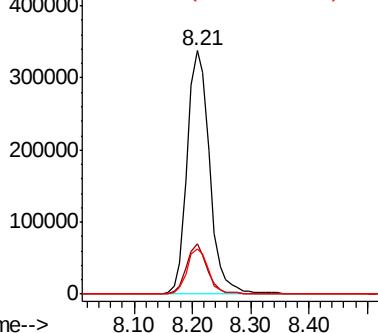
88 18.5 0.0 32.6

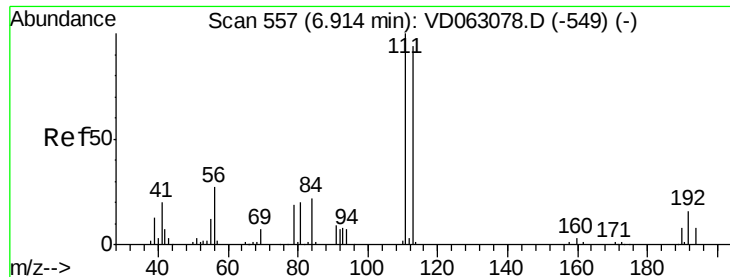


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 44.943 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

Instrument :

MSVOA_D

ClientSampleId :

SOIL-DRUM

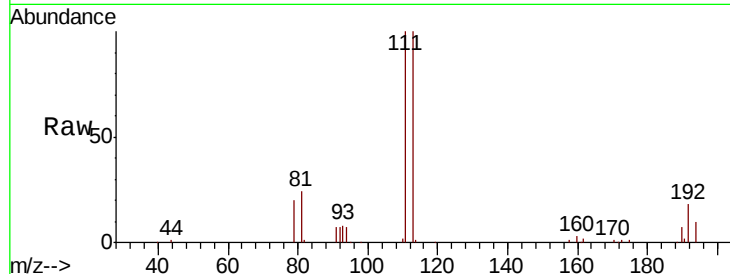
Tot Ion:113 Resp: 406225

Ion Ratio Lower Upper

113 100

111 100.0 84.8 127.2

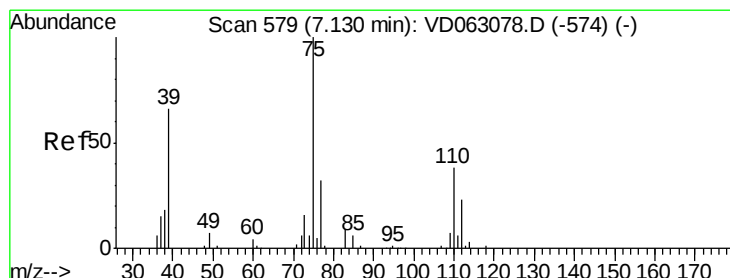
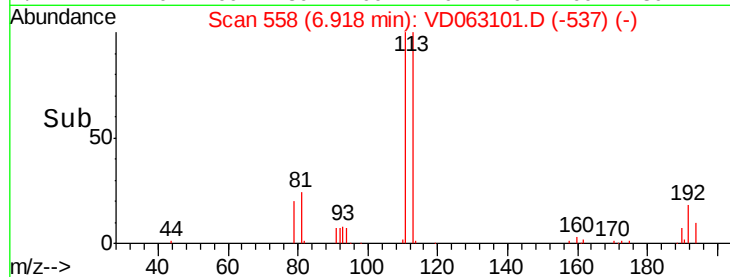
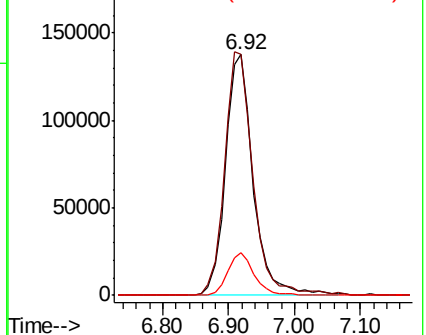
192 17.9 13.4 20.0



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: 5.308 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

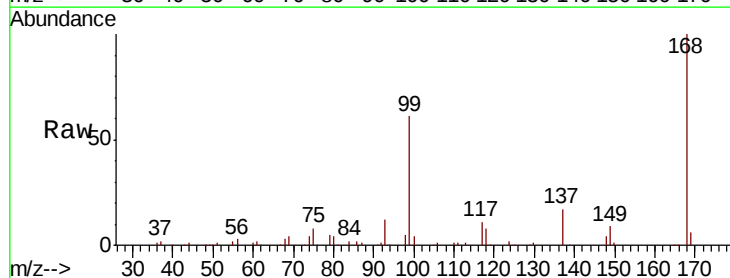
Tgt Ion: 75 Resp: 54179

Ion Ratio Lower Upper

75 100

110 12.6 18.9 56.5#

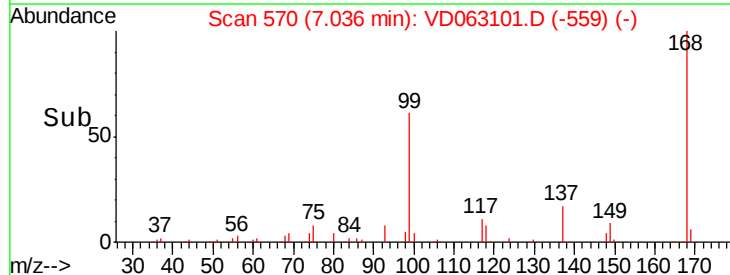
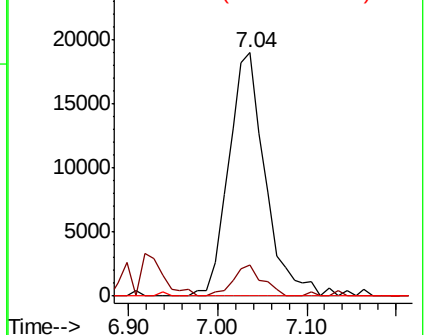
77 0.0 25.2 37.8#

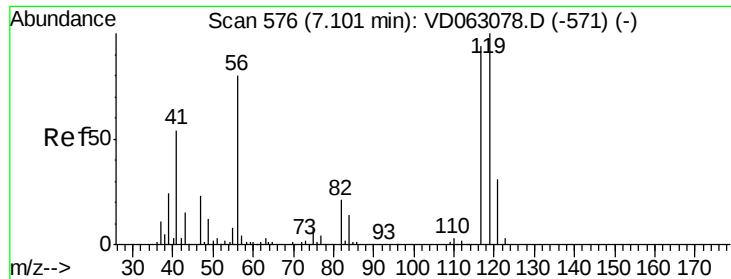


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

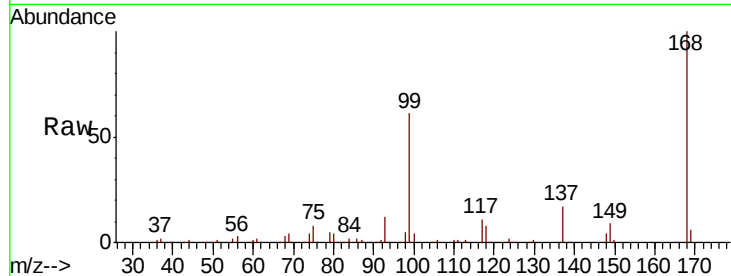




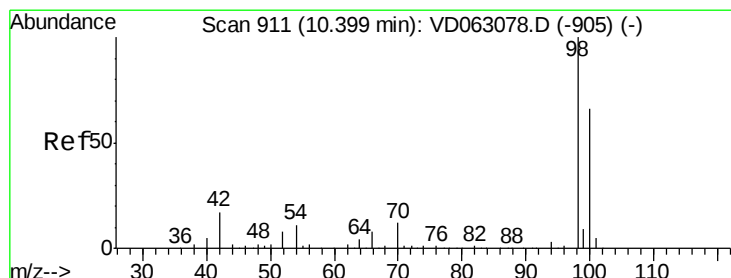
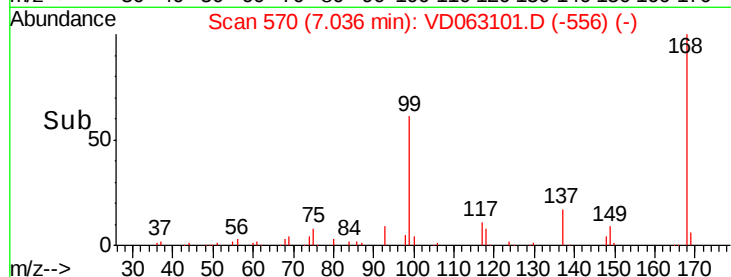
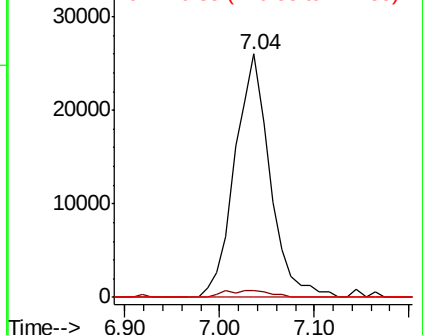
#38
Carbon Tetrachloride
Concen: 4.304 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.06 min
Lab File: VD063101.D
Acq: 16 Jul 2019 12:48

Instrument :
MSVOA_D
ClientSampleId :
SOIL-DRUM

Tot Ion:117 Resp: 66748
Ion Ratio Lower Upper
117 100
119 2.8 80.0 120.0#
121 0.0 25.0 37.4#

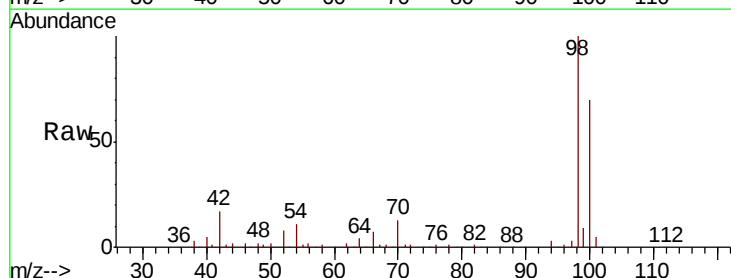


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

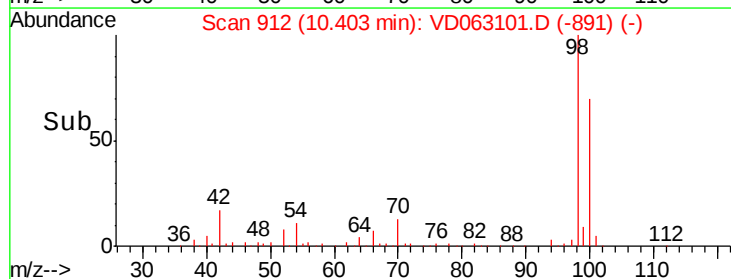
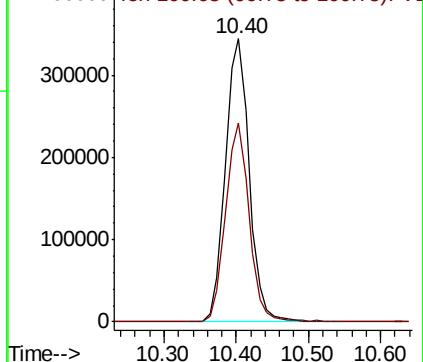


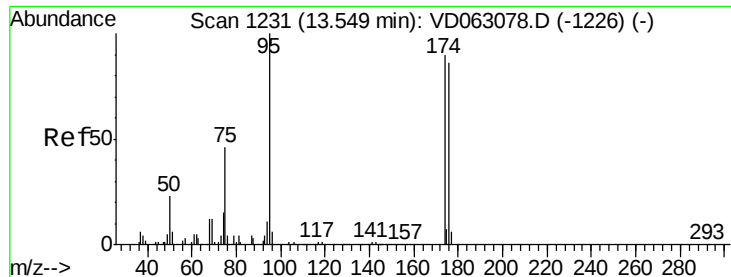
#50
Toluene-d8
Concen: 40.741 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063101.D
Acq: 16 Jul 2019 12:48

Tgt Ion: 98 Resp: 791000
Ion Ratio Lower Upper
98 100
100 70.4 53.5 80.3



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

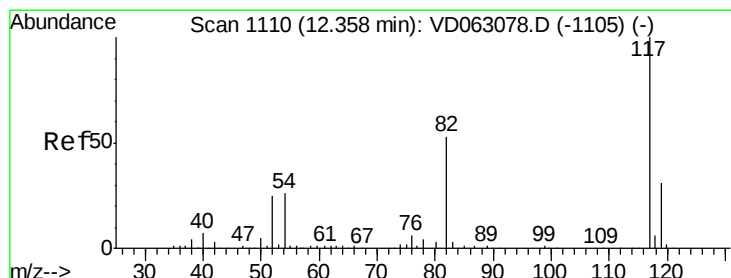
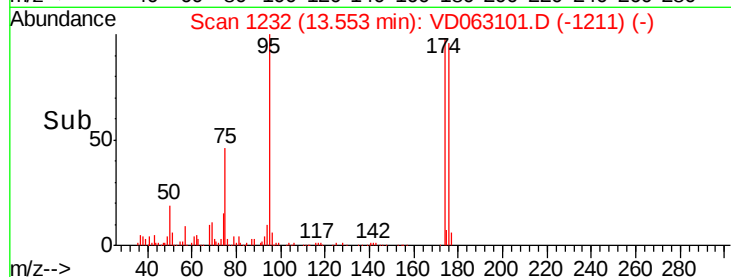
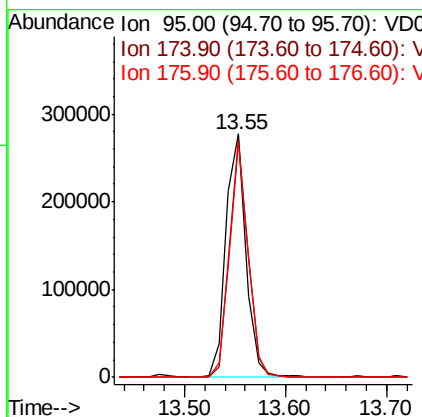
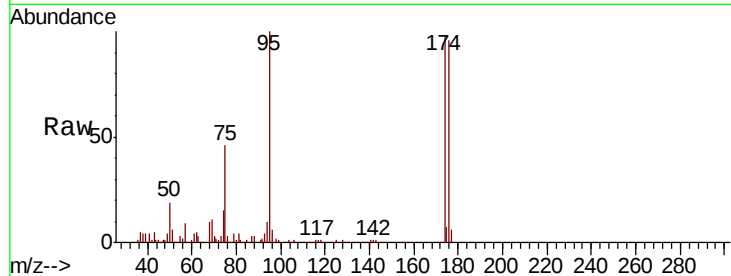




#62
4-Bromofluorobenzene
Concen: 42.908 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063101.D
Acq: 16 Jul 2019 12:48

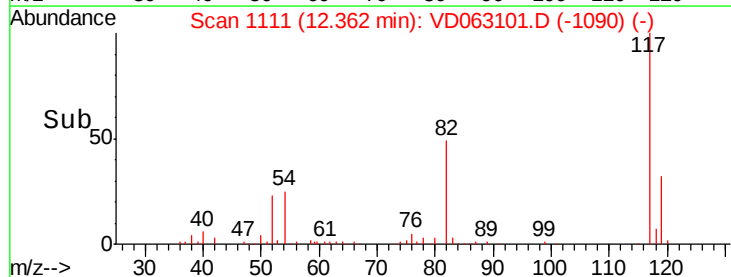
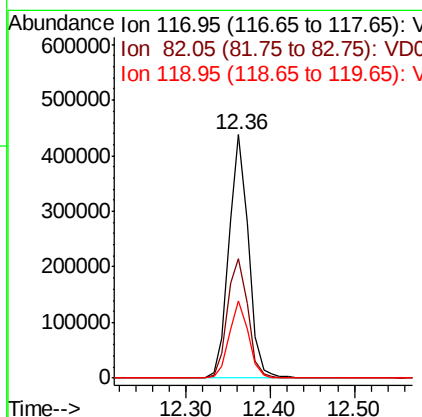
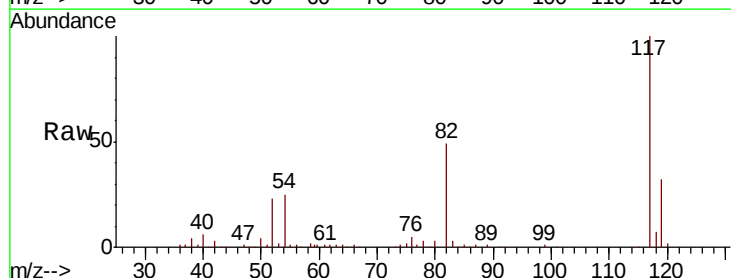
Instrument :
MSVOA_D
ClientSampleId :
SOIL-DRUM

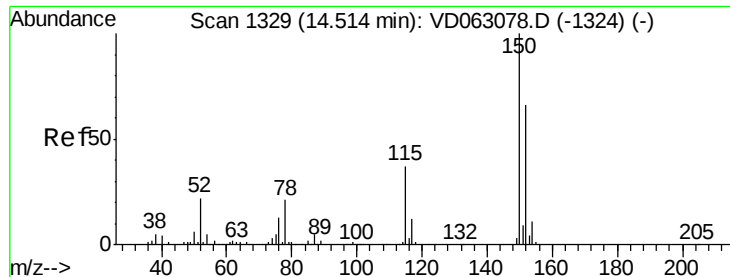
Tot Ion: 95 Resp: 385408
Ion Ratio Lower Upper
95 100
174 98.0 0.0 180.6
176 96.3 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063101.D
Acq: 16 Jul 2019 12:48

Tgt Ion: 117 Resp: 704042
Ion Ratio Lower Upper
117 100
82 48.9 42.3 63.5
119 31.6 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

Instrument :

MSVOA_D

ClientSampleId :

SOIL-DRUM

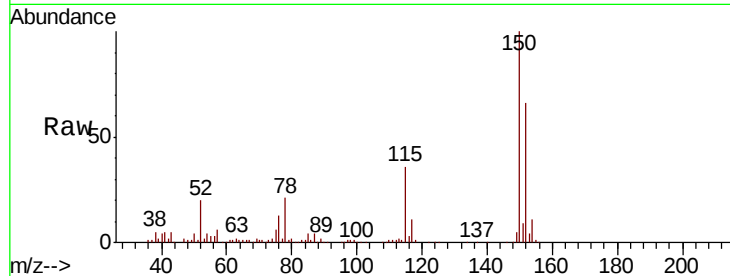
Tot Ion:152 Resp: 327753

Ion Ratio Lower Upper

152 100

115 53.5 28.9 86.8

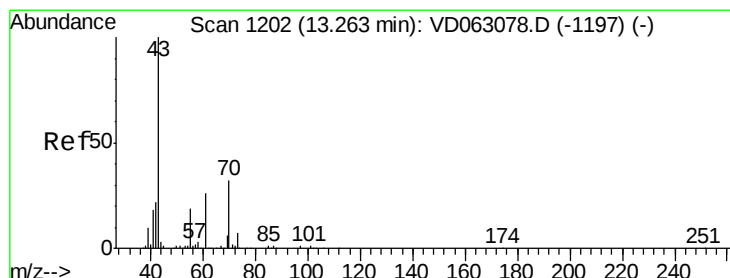
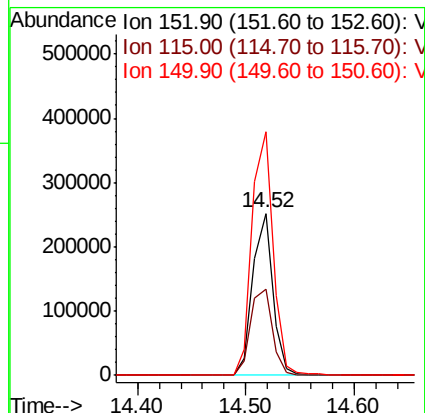
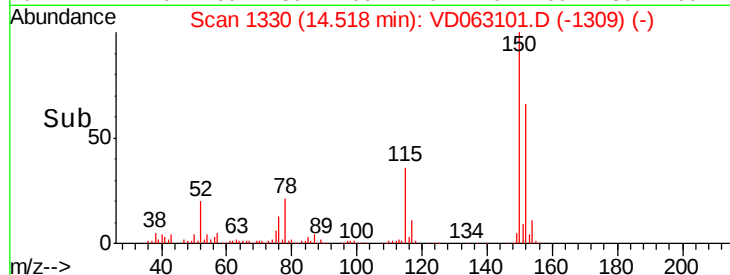
150 150.4 0.0 313.8



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



#74

N-ethyl acetate

Concen: 1.808 ug/l

RT: 13.30 min Scan# 1206

Delta R.T. 0.03 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

Tgt Ion: 43 Resp: 12763

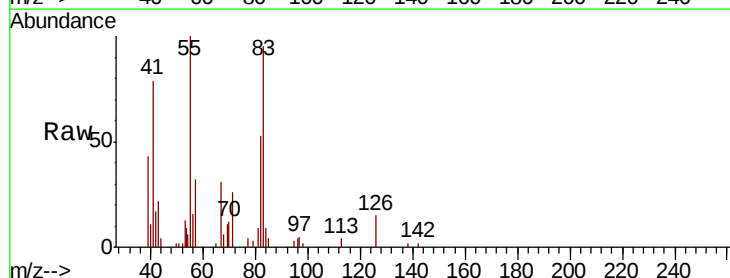
Ion Ratio Lower Upper

43 100

70 55.4 25.5 38.3#

55 459.4 15.4 23.0#

61 0.0 20.6 31.0#

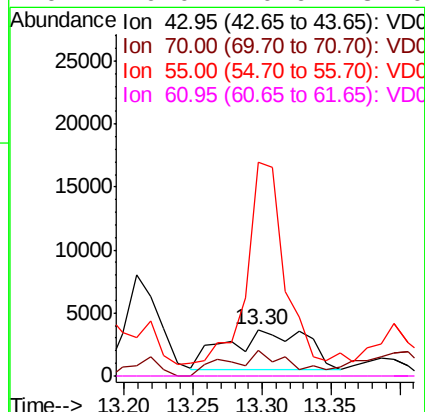
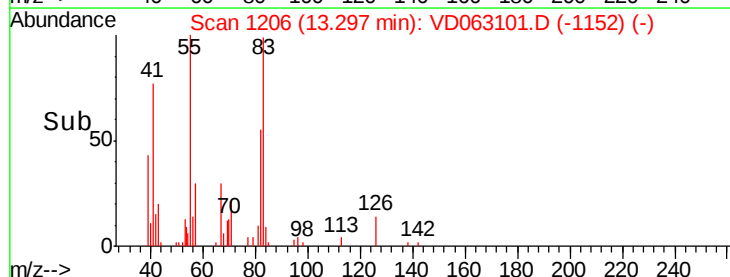


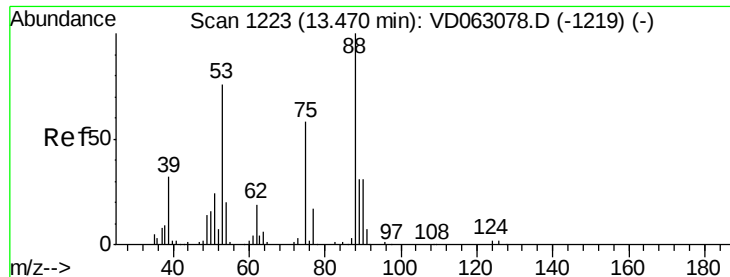
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#81

trans-1,4-Dichloro-2-butene

Concen: 136.800 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

Instrument :

MSVOA_D

ClientSampleId :

SOIL-DRUM

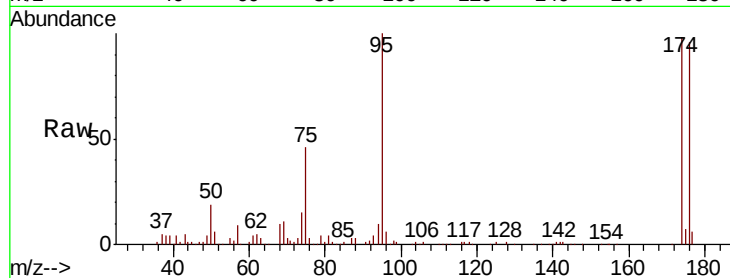
Tot Ion: 75 Resp: 181628

Ion Ratio Lower Upper

75 100

53 1.1 104.4 156.6#

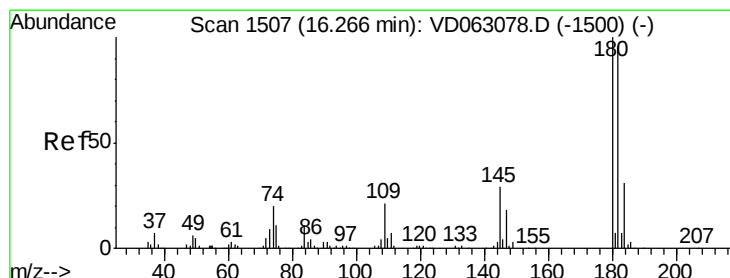
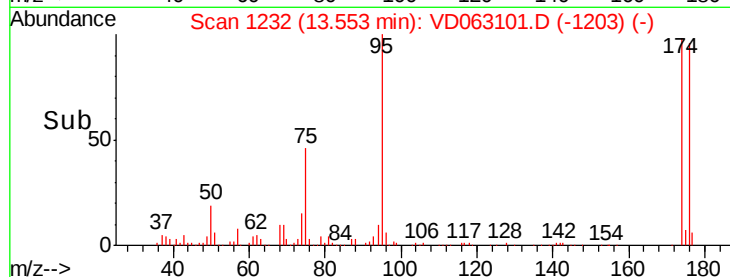
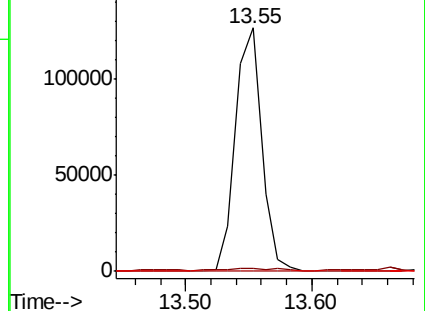
89 0.0 43.1 64.7#



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



#96

1,2,3-Trichlorobenzene

Concen: 1.962 ug/l

RT: 16.25 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD063101.D

Acq: 16 Jul 2019 12:48

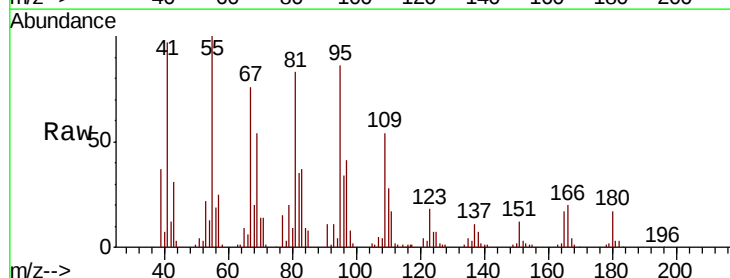
Tgt Ion:180 Resp: 13538

Ion Ratio Lower Upper

180 100

182 18.1 47.9 143.6#

145 0.0 14.4 43.4#



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

