

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040419\
 Data File : VD061603.D
 Acq On : 5 Apr 2019 4:46
 Operator : VA/AP
 Sample : K2197-03RE
 Misc : 5.33g/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 05 06:44:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	454060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	816971	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.34	117	560289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	215397	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.42	65	180985	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
35) Dibromofluoromethane	6.90	113	276744	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	
50) Toluene-d8	10.39	98	537769	35.91	ug/l	0.00
Spiked Amount			Recovery	=	71.82%	
62) 4-Bromofluorobenzene	13.54	95	212388	36.99	ug/l	0.00
Spiked Amount			Recovery	=	73.98%	

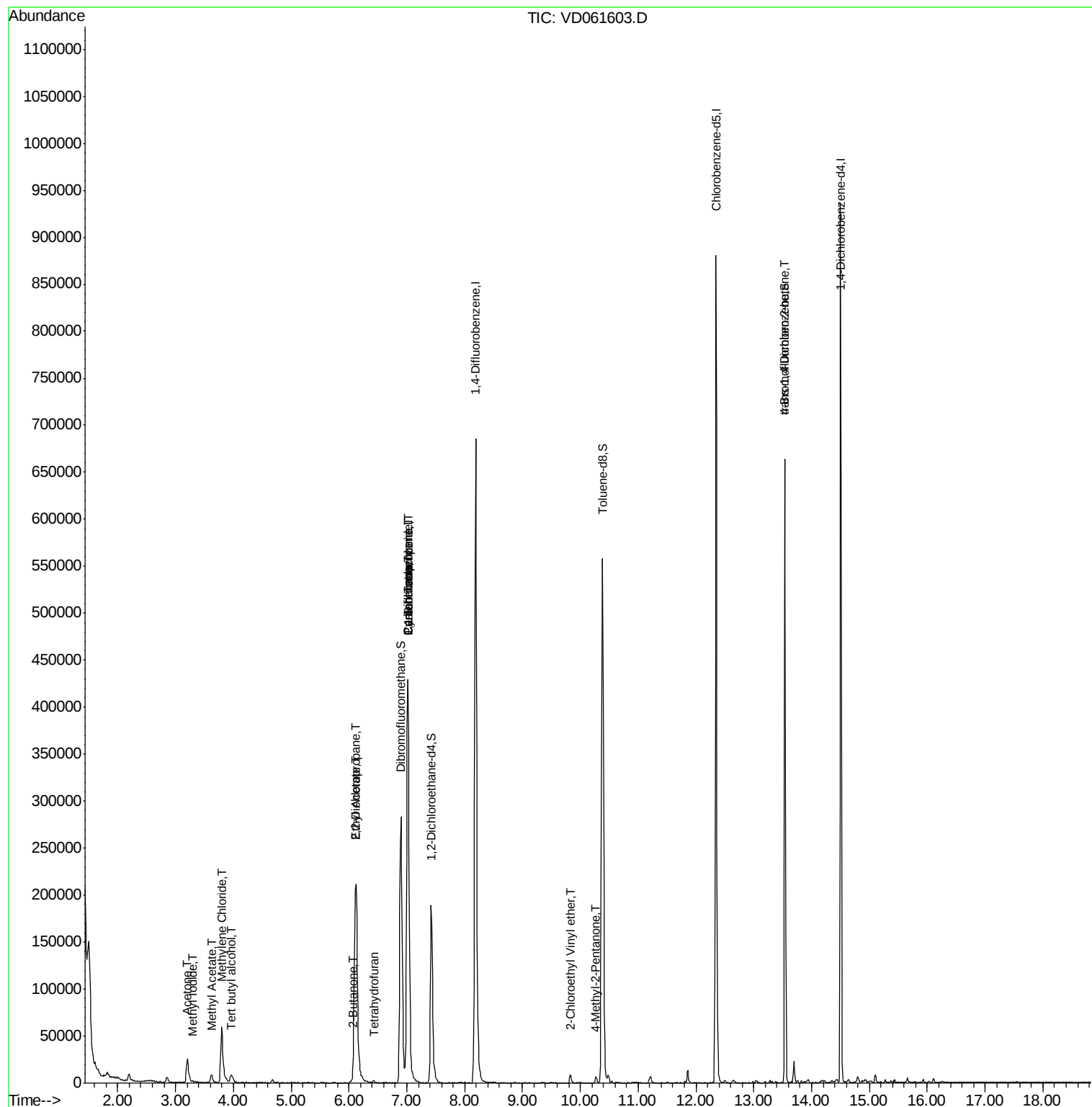
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.31	142	1671	3.646	ug/l #	38
11) Tert butyl alcohol	3.97	59	10121	41.899	ug/l #	76
16) Acetone	3.20	43	53908	54.065	ug/l	96
18) Methyl Acetate	3.62	43	15847	7.559	ug/l	96
20) Methylene Chloride	3.80	84	46821	6.720	ug/l	99
25) 2-Butanone	6.05	43	6047	4.821	ug/l #	54
26) 2,2-Dichloropropane	6.12	77	16059	2.390	ug/l #	50
29) Tetrahydrofuran	6.44	42	1685	2.772	ug/l #	47
31) Cyclohexane	7.01	56	7653	1.146	ug/l #	1
36) 1,1-Dichloropropene	7.01	75	33346	4.677	ug/l #	44
37) Ethyl Acetate	6.12	43	14686	4.816	ug/l #	1
38) Carbon Tetrachloride	7.02	117	43839	5.351	ug/l #	13
51) 4-Methyl-2-Pentanone	10.28	43	7044	2.609	ug/l #	79
58) 2-Chloroethyl Vinyl ether	9.83	63	4727	2.367	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.54	75	78360	82.598	ug/l #	18

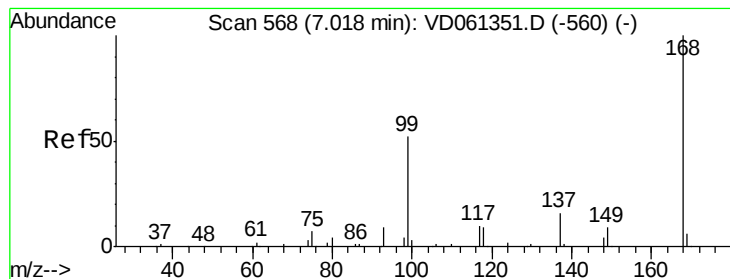
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.00 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

Instrument :

MSVOA_D

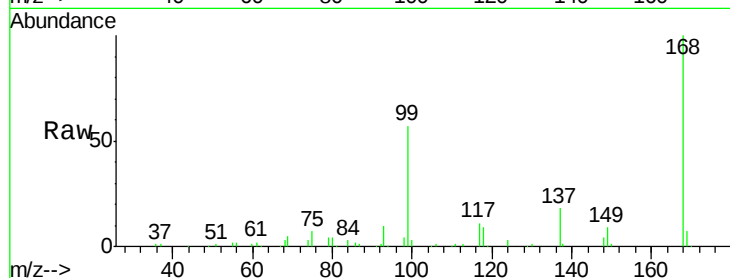
ClientSampleId :

Tot Ion:168 Resp: 454060

Ion Ratio Lower Upper

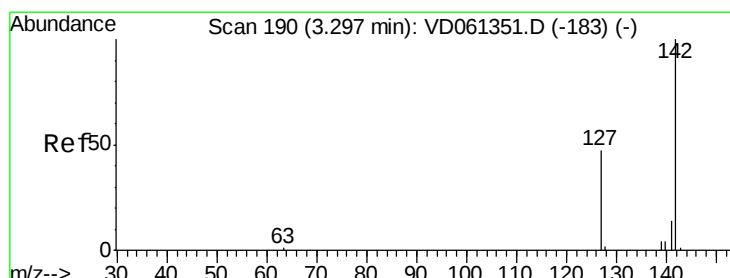
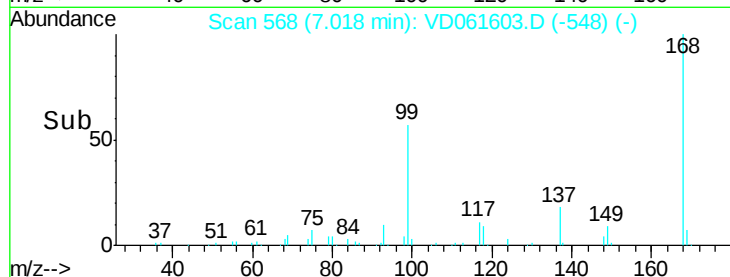
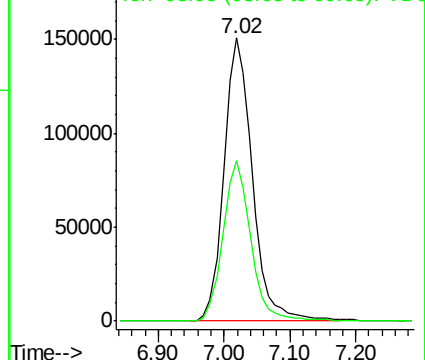
168 100

99 56.6 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V



#10

Methyl Iodide

Concen: 3.646 ug/l

RT: 3.31 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

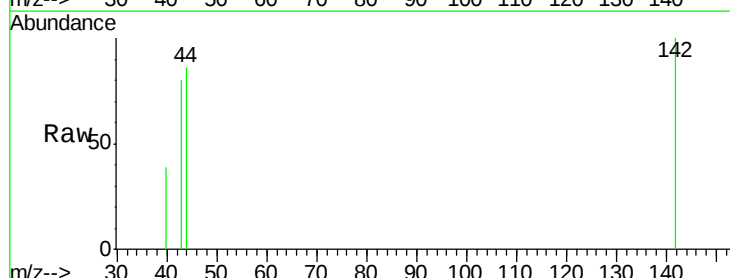
Tgt Ion:142 Resp: 1671

Ion Ratio Lower Upper

142 100

127 0.0 37.7 56.5#

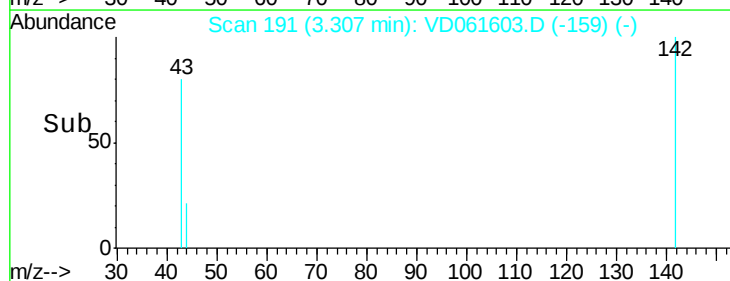
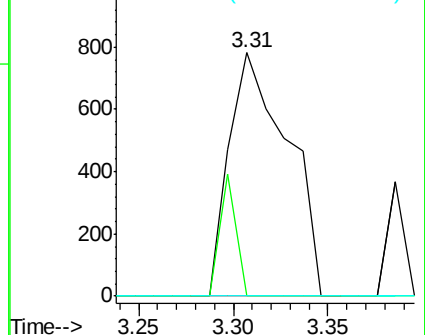
141 0.0 11.5 17.3#

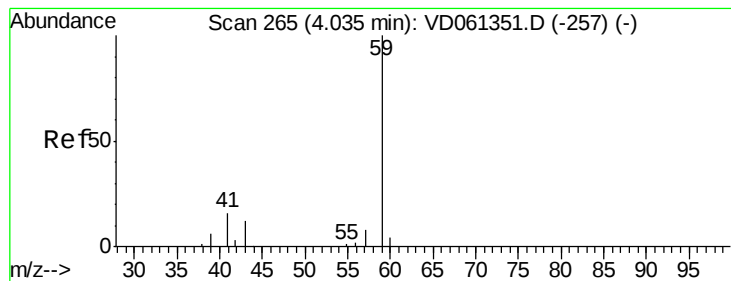


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



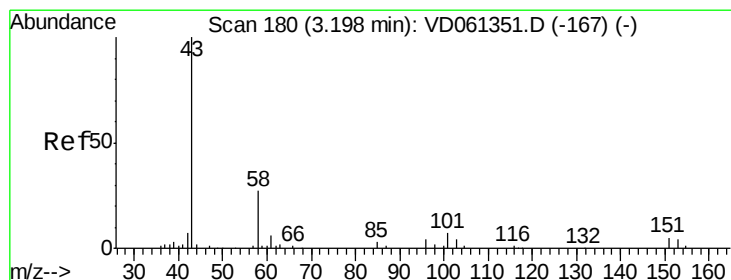
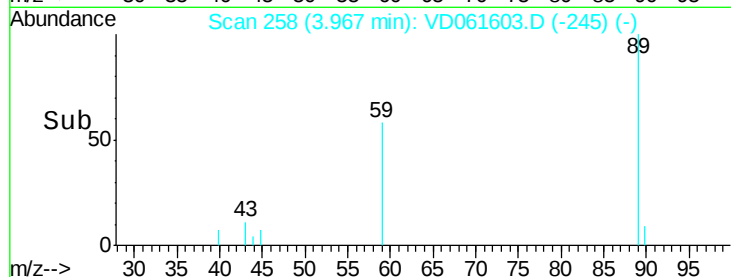
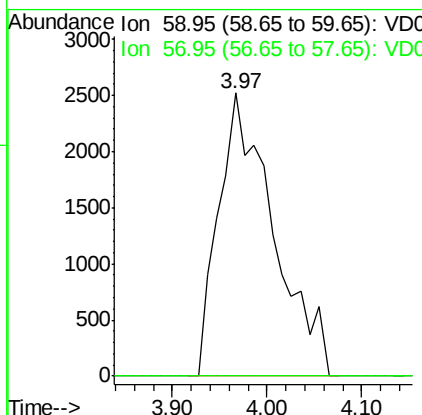
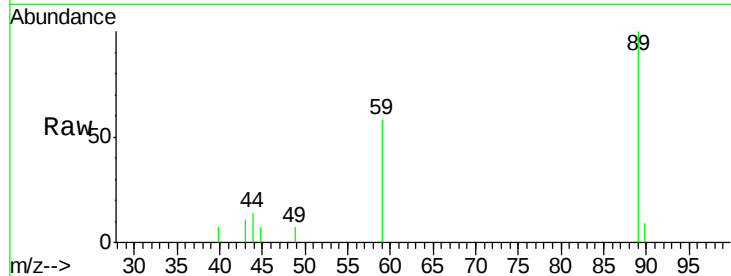


#11

Tert butyl alcohol
 Concen: 41.899 ug/l
 RT: 3.97 min Scan# 258
 Delta R.T. -0.07 min
 Lab File: VD061603.D
 Acq: 5 Apr 2019 4:46

Instrument :
 MSVOA_D
 ClientSampled :

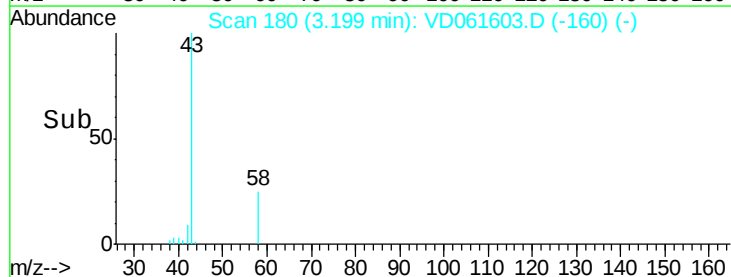
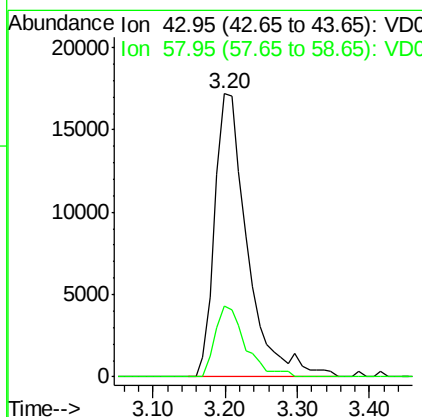
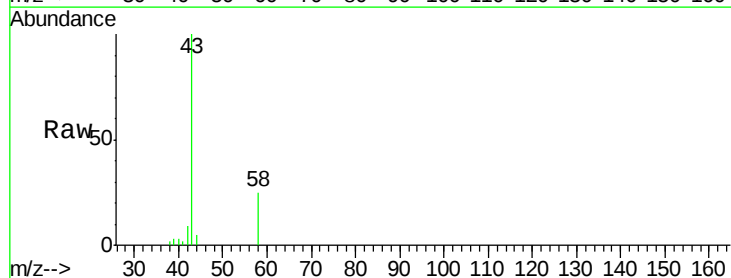
Tot Ion: 59 Resp: 10121
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.7 10.1#

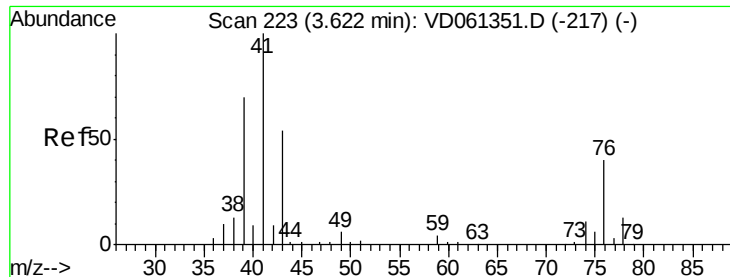


#16

Acetone
 Concen: 54.065 ug/l
 RT: 3.20 min Scan# 180
 Delta R.T. 0.00 min
 Lab File: VD061603.D
 Acq: 5 Apr 2019 4:46

Tgt Ion: 43 Resp: 53908
 Ion Ratio Lower Upper
 43 100
 58 24.9 21.5 32.3

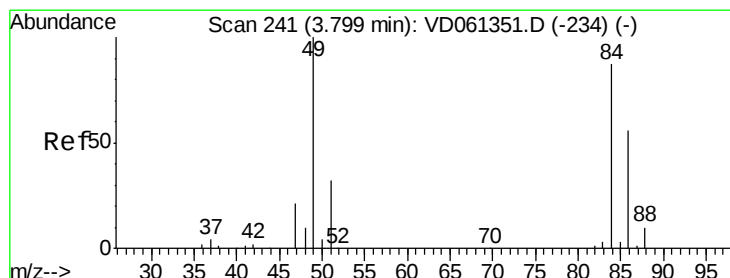
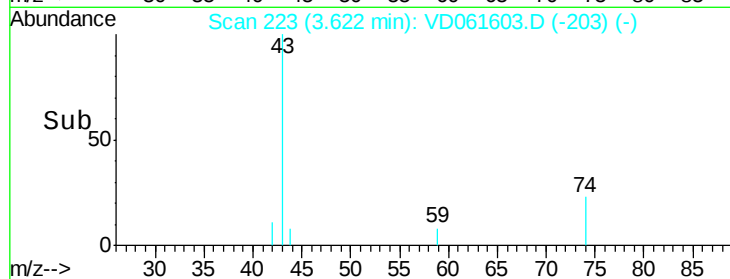
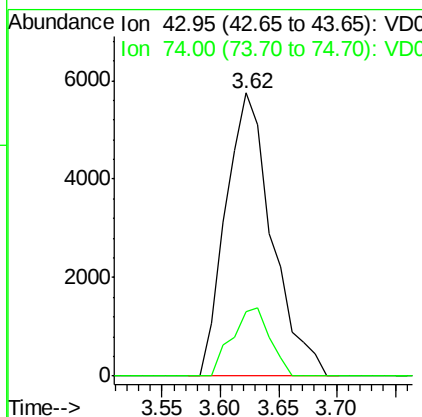
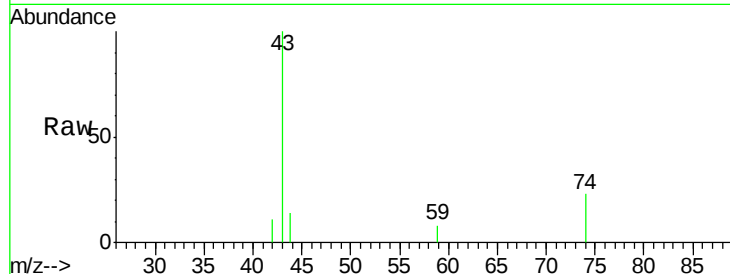




#18
Methyl Acetate
Concen: 7.559 ug/l
RT: 3.62 min Scan# 223
Delta R.T. 0.00 min
Lab File: VD061603.D
Acq: 5 Apr 2019 4:46

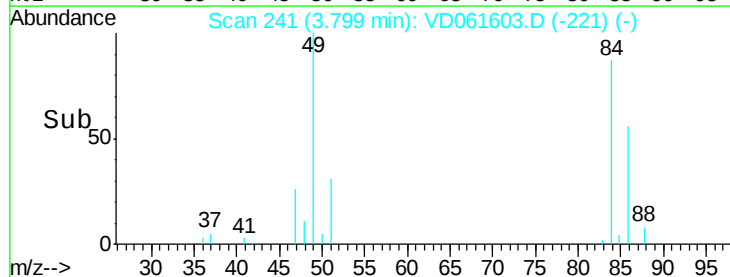
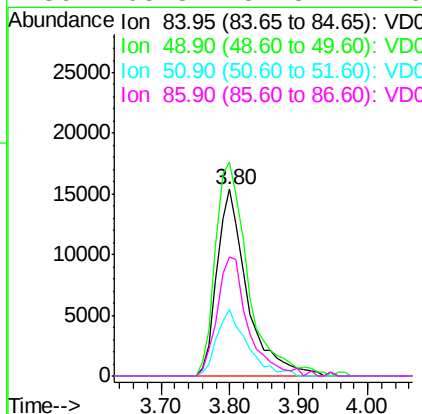
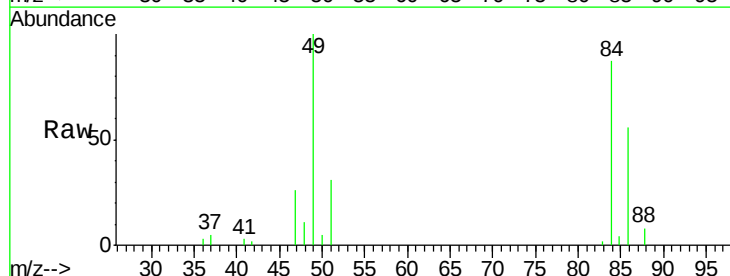
Instrument :
MSVOA_D
ClientSampleId :

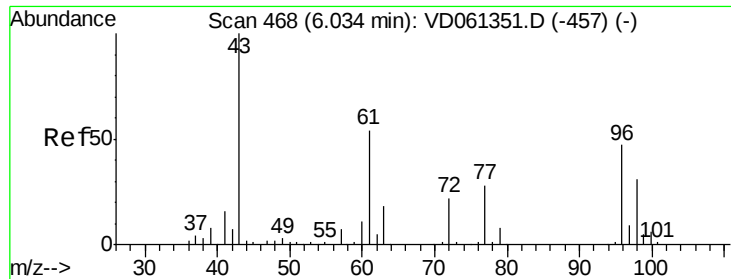
Tot Ion: 43 Resp: 15847
Ion Ratio Lower Upper
43 100
74 22.9 16.7 25.1



#20
Methylene Chloride
Concen: 6.720 ug/l
RT: 3.80 min Scan# 241
Delta R.T. 0.00 min
Lab File: VD061603.D
Acq: 5 Apr 2019 4:46

Tgt Ion: 84 Resp: 46821
Ion Ratio Lower Upper
84 100
49 114.5 91.8 137.8
51 35.4 29.8 44.8
86 63.8 51.8 77.6





#25

2-Butanone

Concen: 4.821 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.02 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

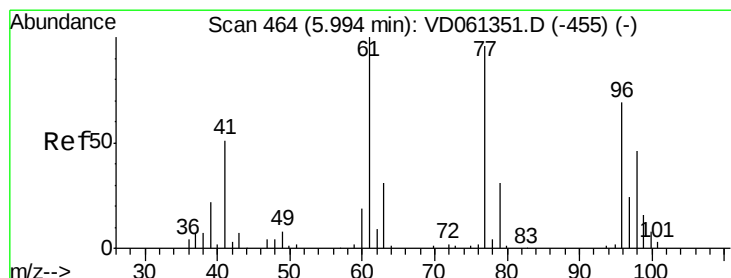
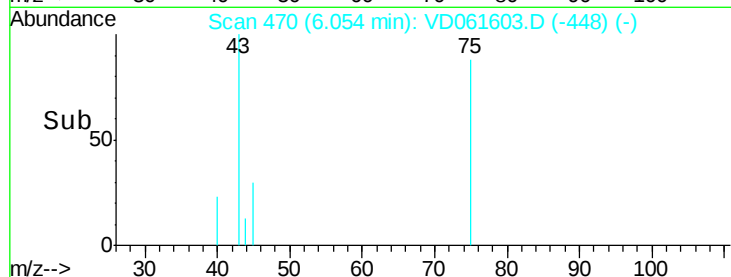
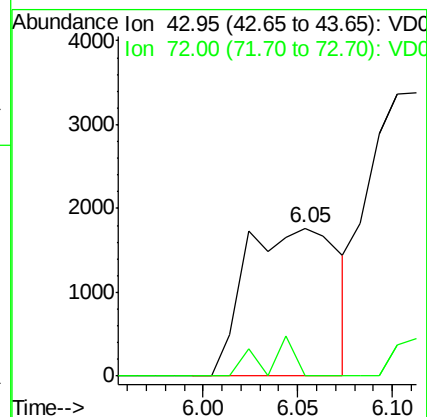
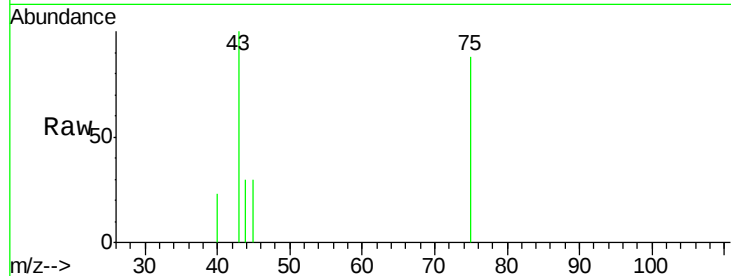
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 6047

Ion Ratio Lower Upper

43 100

72 0.0 17.2 25.8#



#26

2,2-Dichloropropane

Concen: 2.390 ug/l

RT: 6.12 min Scan# 477

Delta R.T. 0.13 min

Lab File: VD061603.D

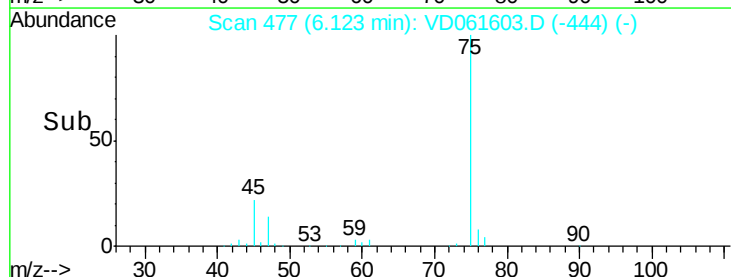
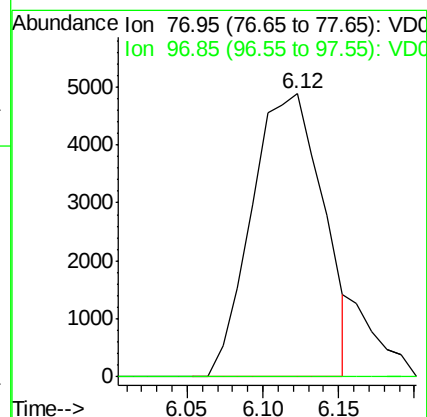
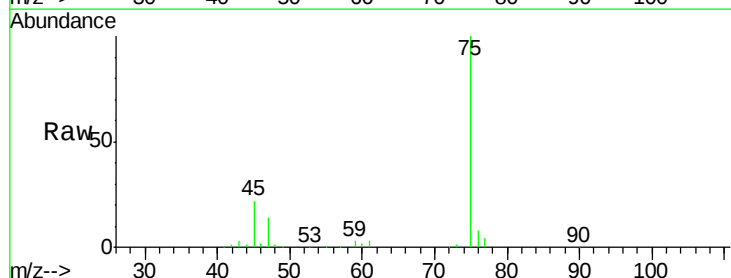
Acq: 5 Apr 2019 4:46

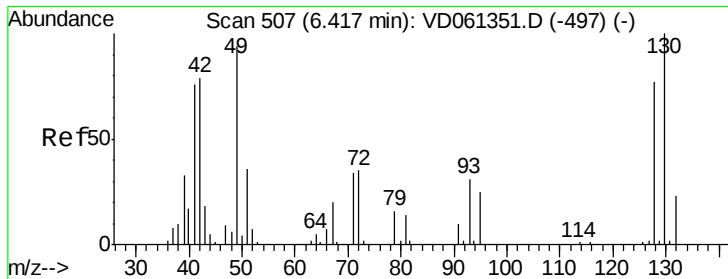
Tgt Ion: 77 Resp: 16059

Ion Ratio Lower Upper

77 100

97 0.0 12.7 38.0#

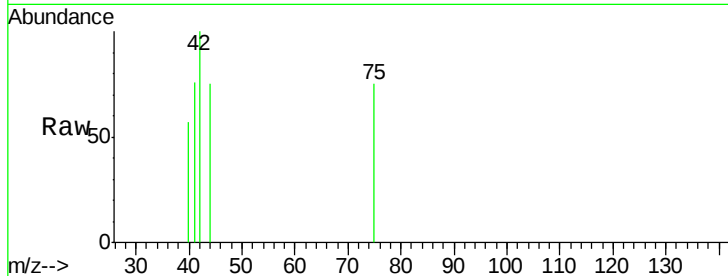




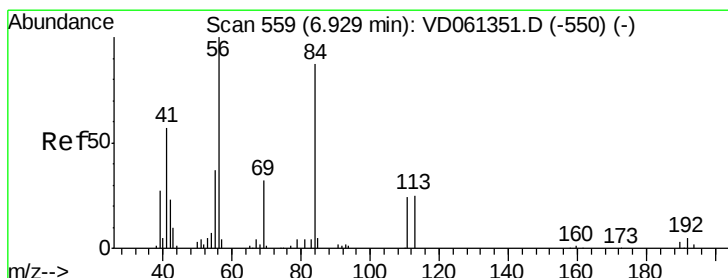
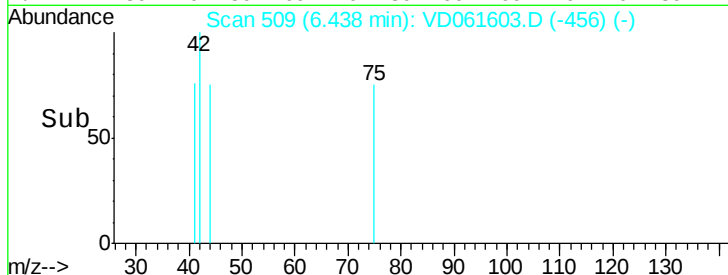
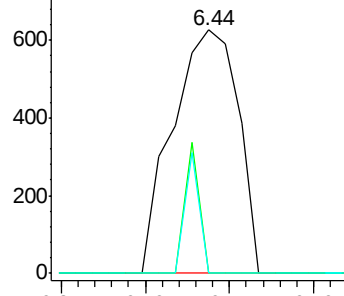
#29
Tetrahydrofuran
Concen: 2.772 ug/l
RT: 6.44 min Scan# 509
Delta R.T. 0.02 min
Lab File: VD061603.D
Acq: 5 Apr 2019 4:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 42 Resp: 1685
Ion Ratio Lower Upper
42 100
72 11.8 37.4 56.0#
71 10.9 36.7 55.1#

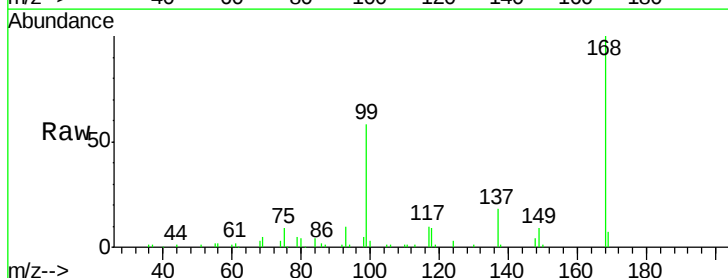


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

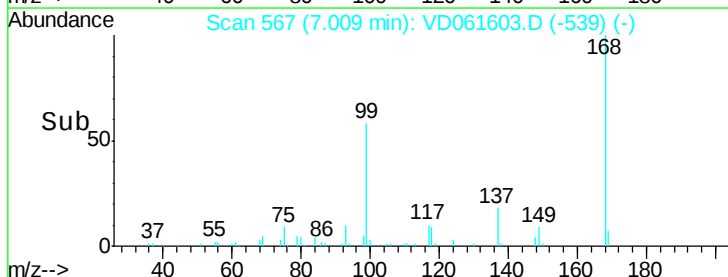
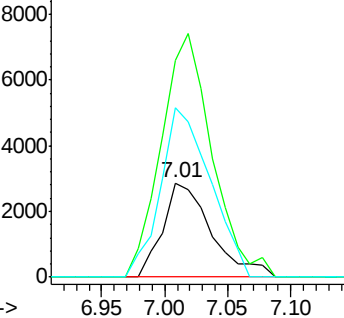


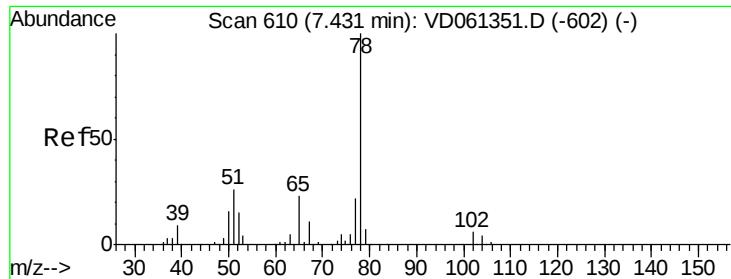
#31
Cyclohexane
Concen: 1.146 ug/l
RT: 7.01 min Scan# 567
Delta R.T. 0.08 min
Lab File: VD061603.D
Acq: 5 Apr 2019 4:46

Tgt Ion: 56 Resp: 7653
Ion Ratio Lower Upper
56 100
69 229.5 25.7 38.5#
84 179.2 70.6 105.8#



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: 7.42 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

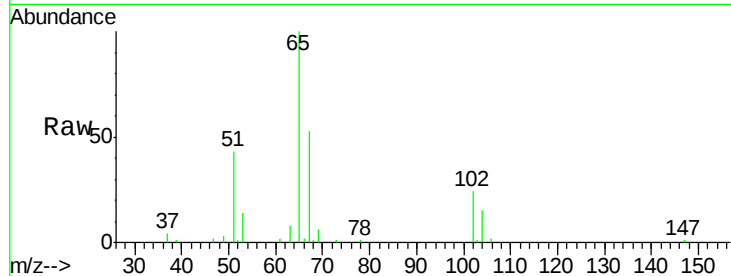
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 180985

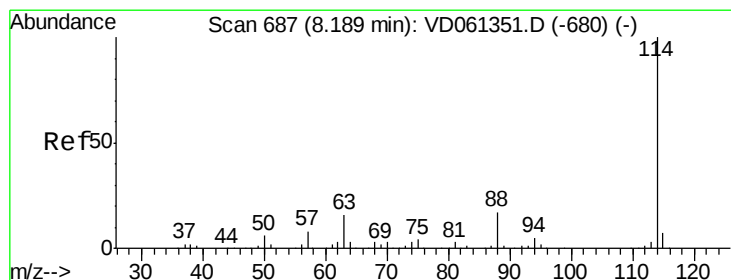
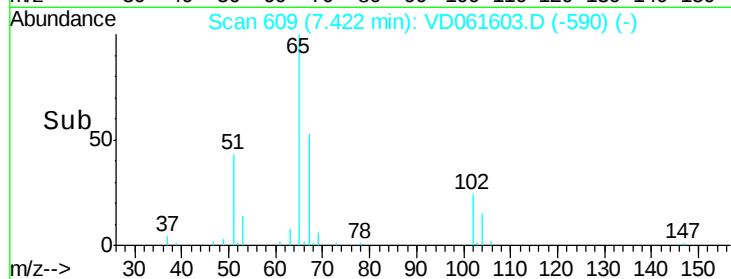
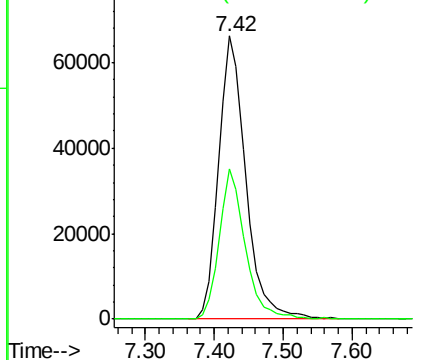
Ion Ratio Lower Upper

65 100

67 53.1 0.0 99.8



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: 8.19 min Scan# 687

Delta R.T. 0.00 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

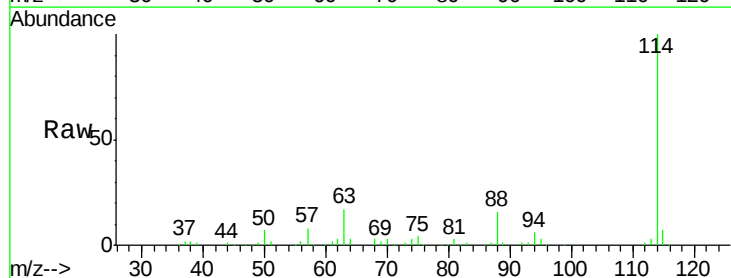
Tgt Ion:114 Resp: 816971

Ion Ratio Lower Upper

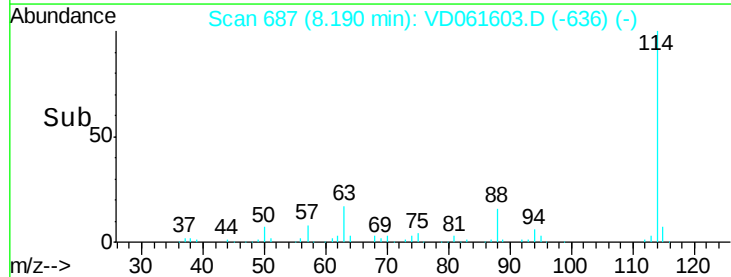
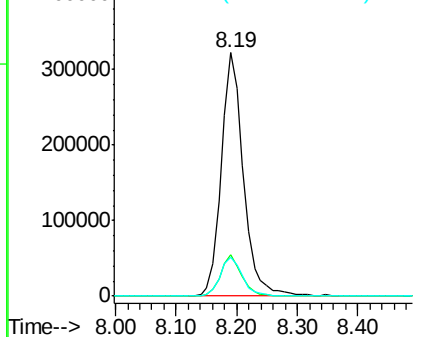
114 100

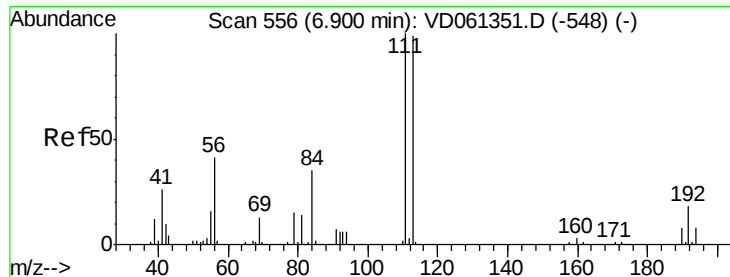
63 17.1 0.0 31.6

88 16.2 0.0 33.4



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: 50.000 ug/l

RT: 6.90 min Scan# 556

Delta R.T. 0.00 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

Instrument :
MSVOA_D
ClientSampleId :

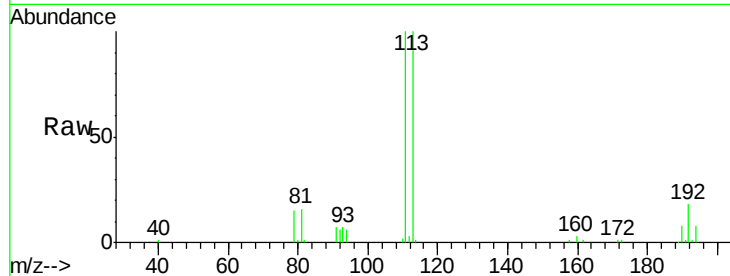
Tot Ion:113 Resp: 276744

Ion Ratio Lower Upper

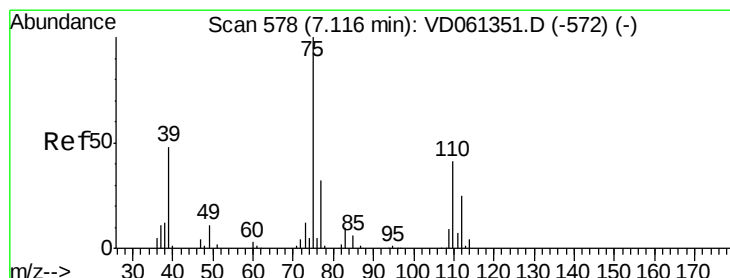
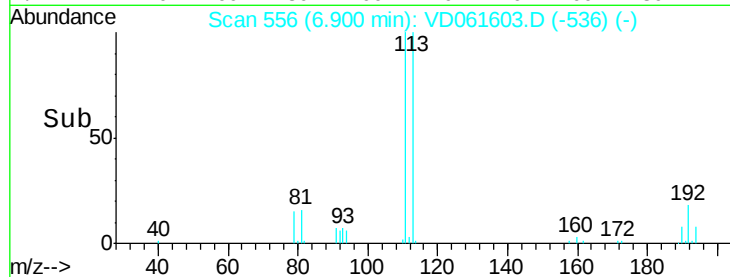
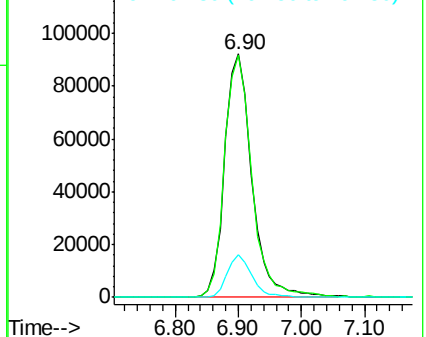
113 100

111 99.6 81.0 121.6

192 17.6 14.4 21.6



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: 4.677 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.11 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

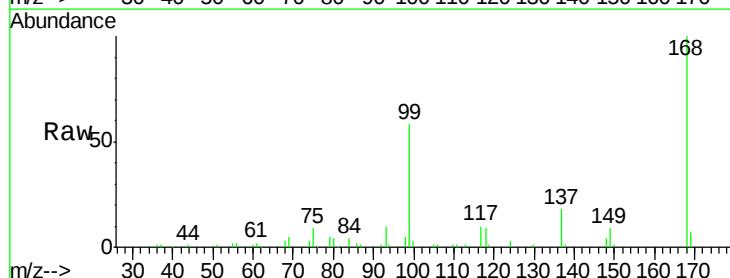
Tgt Ion: 75 Resp: 33346

Ion Ratio Lower Upper

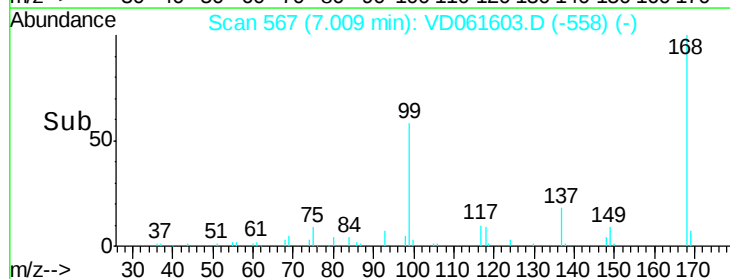
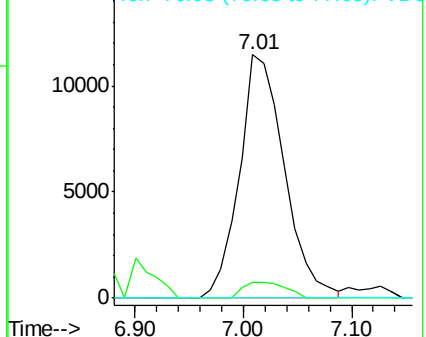
75 100

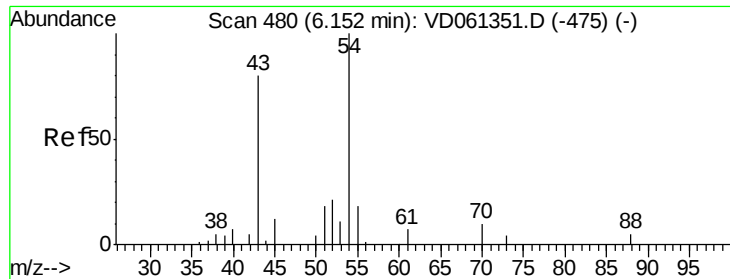
110 6.4 20.4 61.3#

77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 4.816 ug/l

RT: 6.12 min Scan# 477

Delta R.T. -0.03 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

Instrument :

MSVOA_D

ClientSampled :

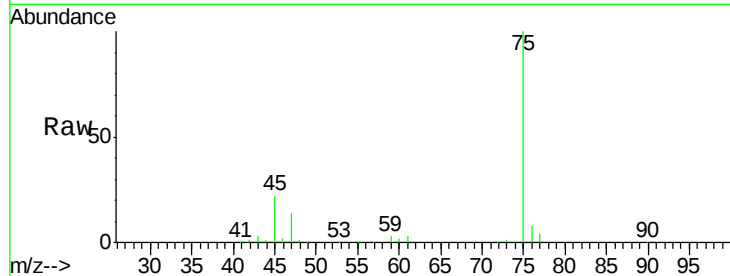
Tot Ion: 43 Resp: 14686

Ion Ratio Lower Upper

43 100

61 93.6 13.8 20.8#

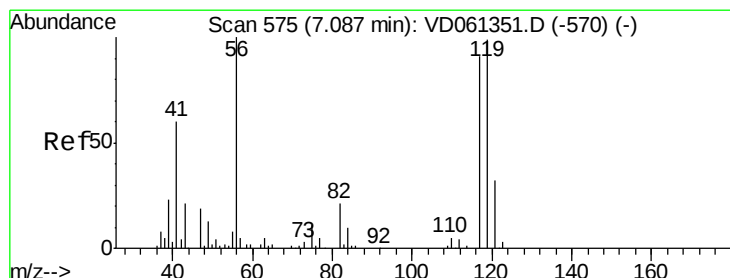
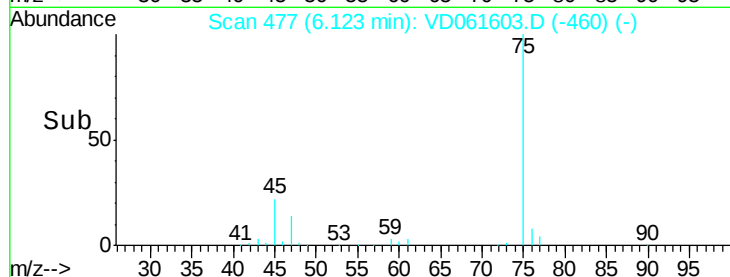
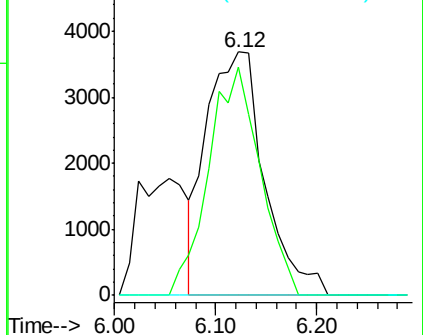
70 0.0 7.8 11.8#



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: 5.351 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.07 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

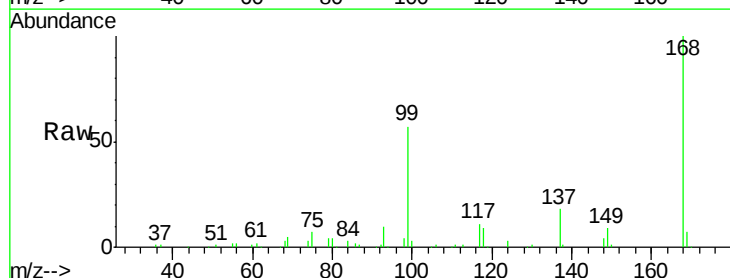
Tgt Ion: 117 Resp: 43839

Ion Ratio Lower Upper

117 100

119 3.3 80.1 120.1#

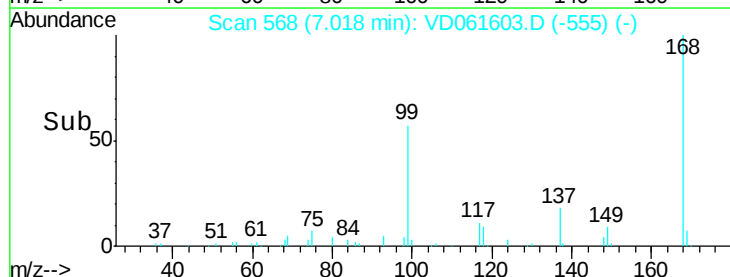
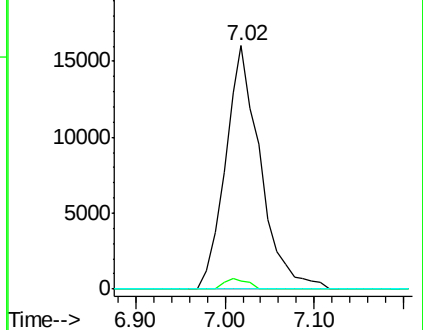
121 0.0 25.6 38.4#

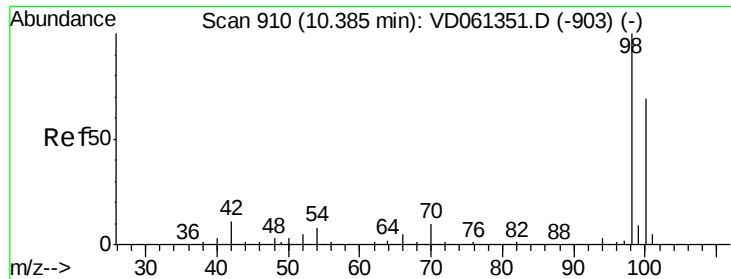


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.39 min Scan# 910

Delta R.T. 0.00 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

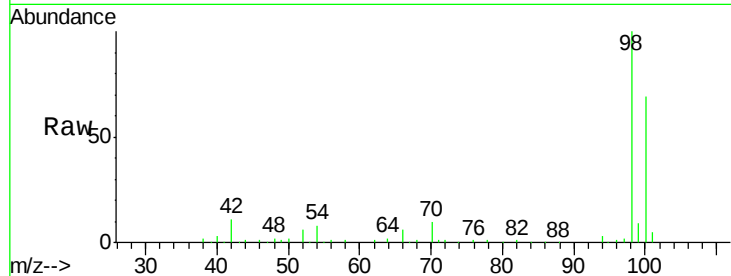
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 537769

Ion Ratio Lower Upper

98 100

100 69.3 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): VD061351.D (-903) (-)

Ion 100.05 (99.75 to 100.75): VD061351.D (-903) (-)

10.39

250000

200000

150000

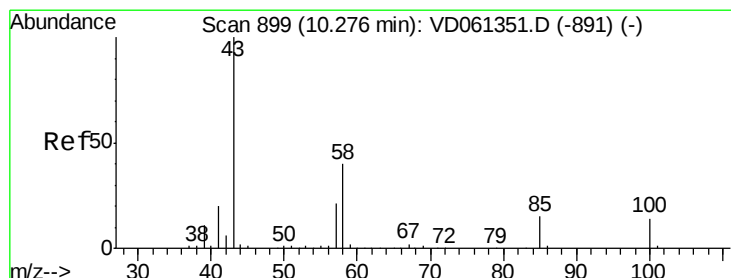
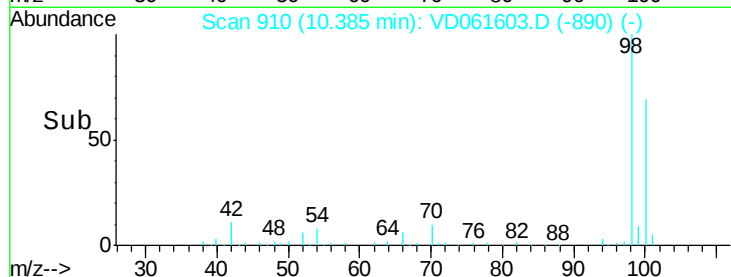
100000

50000

0

Time-->

10.30 10.40 10.50



#51

4-Methyl-2-Pentanone

Concen: 2.609 ug/l

RT: 10.28 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD061603.D

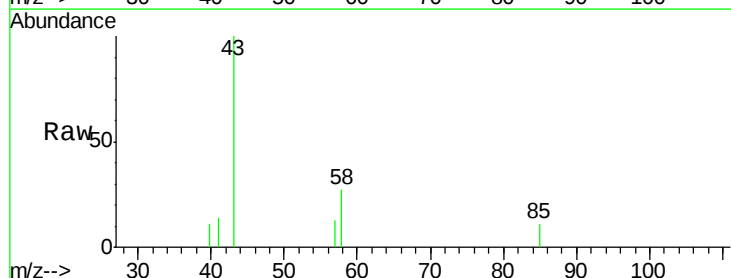
Acq: 5 Apr 2019 4:46

Tgt Ion: 43 Resp: 7044

Ion Ratio Lower Upper

43 100

58 26.7 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VD061351.D (-891) (-)

Ion 57.95 (57.65 to 58.65): VD061351.D (-891) (-)

10.28

3000

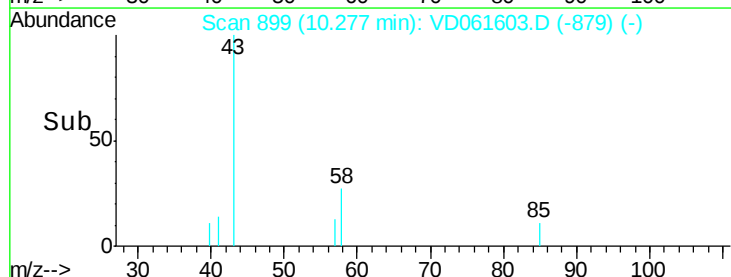
2000

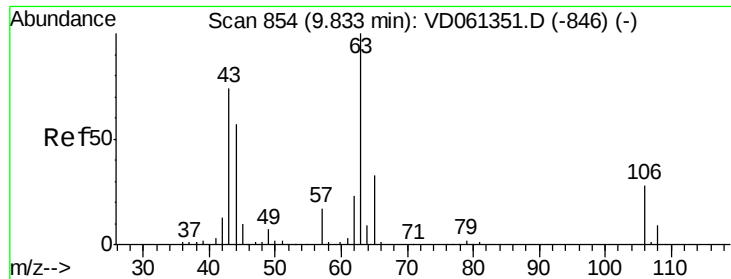
1000

0

Time-->

10.20 10.25 10.30 10.35

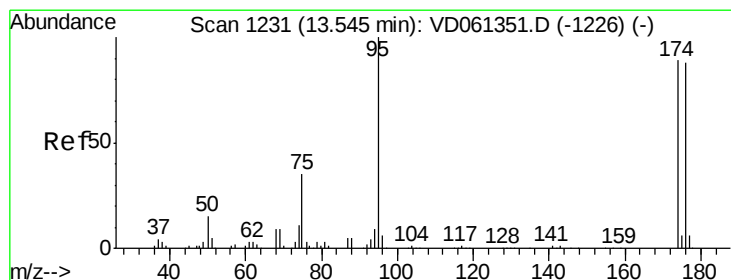
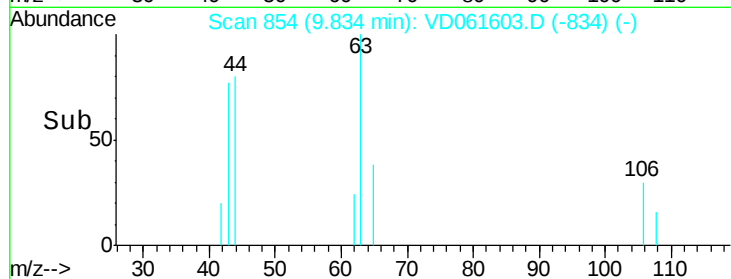
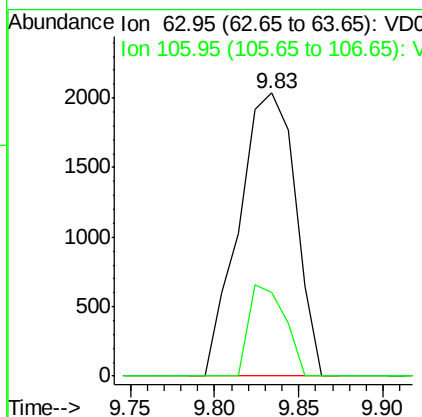
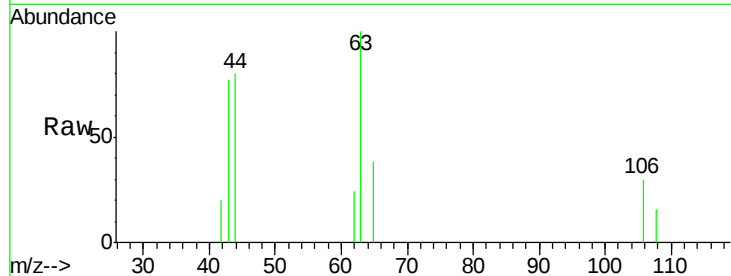




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.367 ug/l
 RT: 9.83 min Scan# 854
 Delta R.T. 0.00 min
 Lab File: VD061603.D
 Acq: 5 Apr 2019 4:46

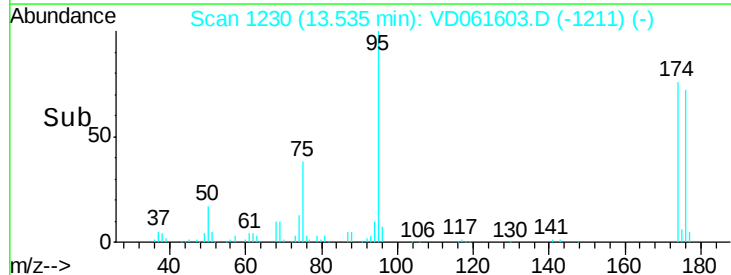
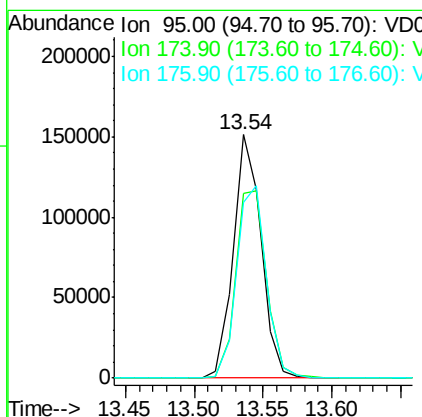
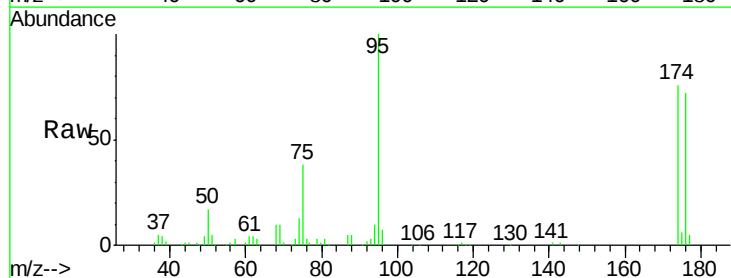
Instrument :
 MSVOA_D
 ClientSampleId :

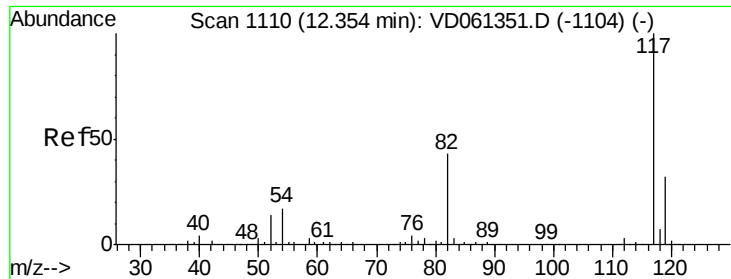
Tot Ion: 63 Resp: 4727
 Ion Ratio Lower Upper
 63 100
 106 29.6 22.4 33.6



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 13.54 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: VD061603.D
 Acq: 5 Apr 2019 4:46

Tgt Ion: 95 Resp: 212388
 Ion Ratio Lower Upper
 95 100
 174 76.1 0.0 178.0
 176 72.0 0.0 175.0

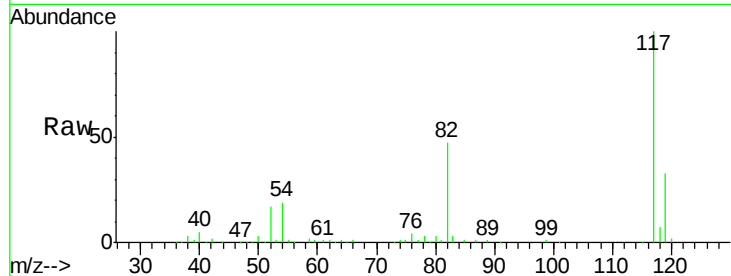




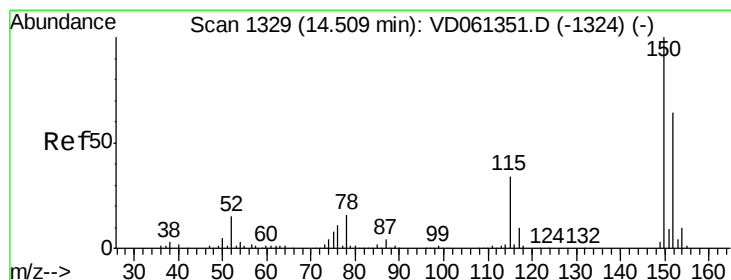
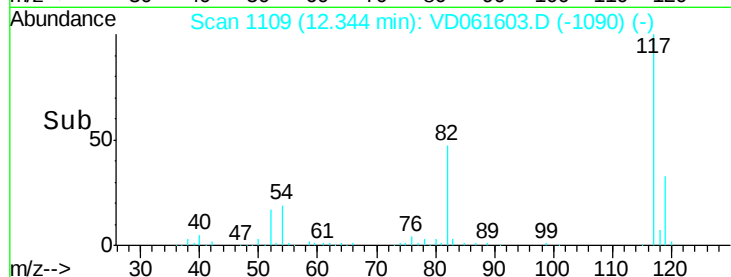
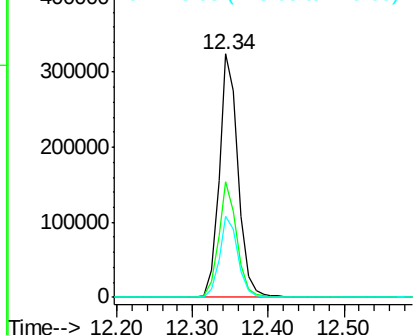
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.34 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VD061603.D
Acq: 5 Apr 2019 4:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 560289
Ion Ratio Lower Upper
117 100
82 47.4 34.4 51.6
119 33.0 25.8 38.6

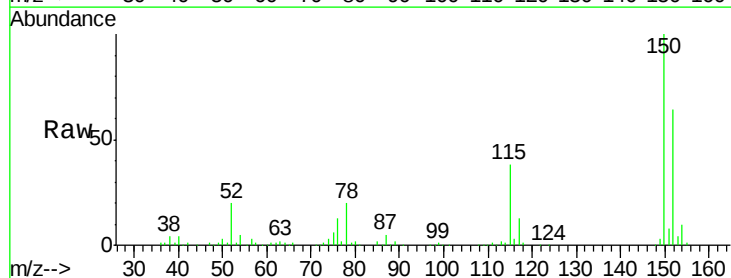


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

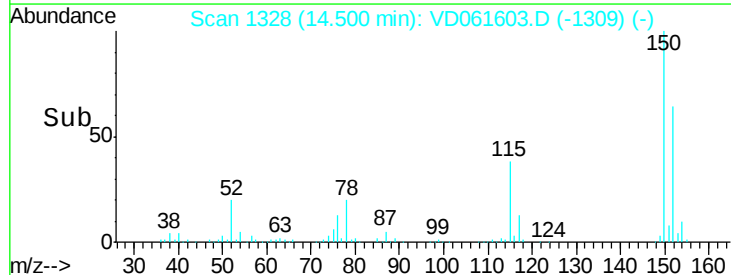
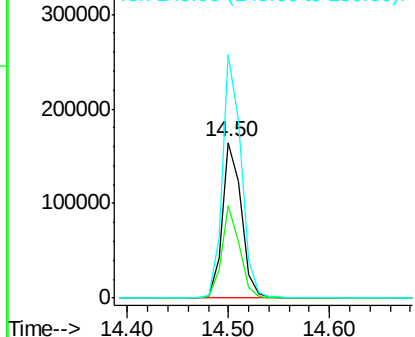


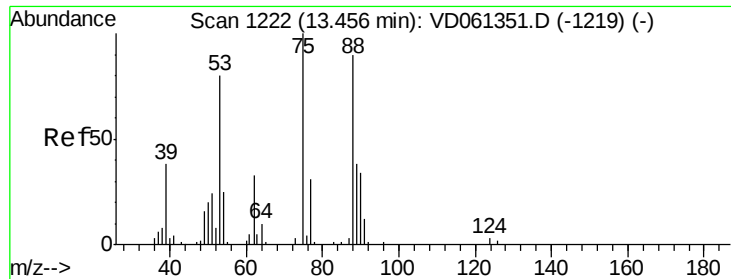
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VD061603.D
Acq: 5 Apr 2019 4:46

Tgt Ion:152 Resp: 215397
Ion Ratio Lower Upper
152 100
115 59.5 26.9 80.6
150 156.8 0.0 318.0



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





#81

trans-1,4-Dichloro-2-butene

Concen: 82.598 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. 0.08 min

Lab File: VD061603.D

Acq: 5 Apr 2019 4:46

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 78360

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#

