

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070819\
 Data File : VD063043.D
 Acq On : 8 Jul 2019 18:20
 Operator : VA/AP
 Sample : K3697-01
 Misc : 5.08g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 72-12000

Quant Time: Jul 09 05:12:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	148682	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	189610	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	178683	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	108531	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	101761	62.97	ug/l	-0.01
Spiked Amount			Recovery	=	125.94%	
35) Dibromofluoromethane	6.93	113	86635	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	
50) Toluene-d8	10.40	98	158700	45.61	ug/l	-0.01
Spiked Amount			Recovery	=	91.22%	
62) 4-Bromofluorobenzene	13.55	95	83173	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	

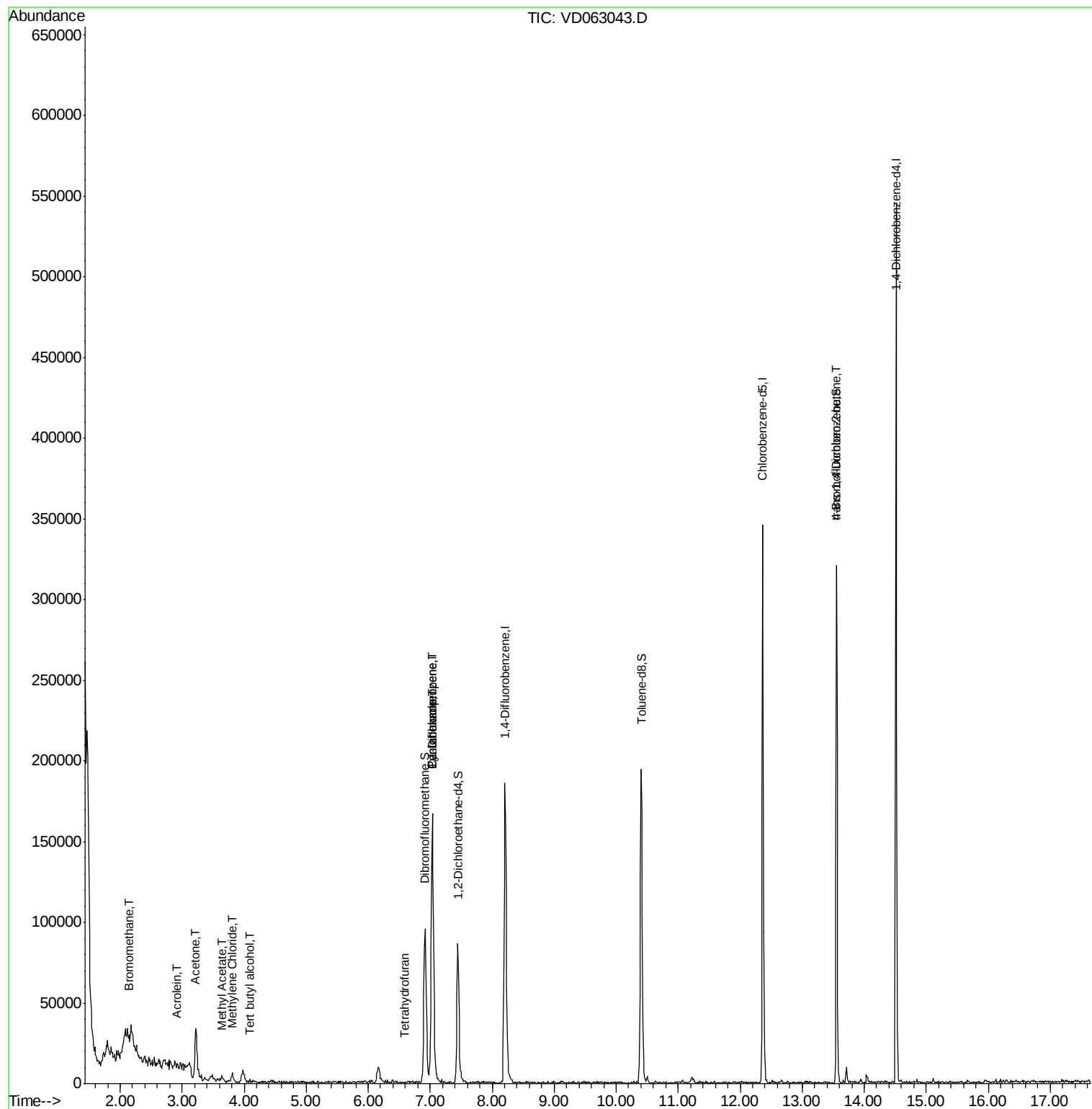
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	2595	3.862	ug/l #	13
11) Tert butyl alcohol	4.09	59	1837	24.957	ug/l #	77
13) Acrolein	2.92	56	282	3.753	ug/l	95
16) Acetone	3.22	43	63629	192.536	ug/l	96
18) Methyl Acetate	3.64	43	7190	14.737	ug/l #	78
20) Methylene Chloride	3.81	84	3410	2.767	ug/l #	77
29) Tetrahydrofuran	6.57	42	190	1.329	ug/l #	33
31) Cyclohexane	7.04	56	5087	3.352	ug/l #	35
36) 1,1-Dichloropropene	7.04	75	12305	6.855	ug/l #	59
37) Ethyl Acetate	6.16	43	219	Below Cal	#	69
81) trans-1,4-Dichloro-2-buten	13.55	75	39791	121.178	ug/l #	2

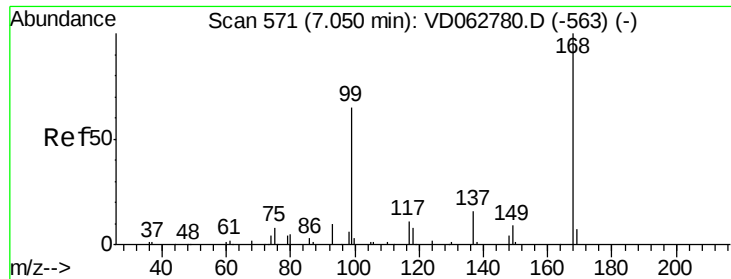
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD063043.D

Acq: 8 Jul 2019 18:20

Instrument :

MSVOA_D

ClientSampleId :

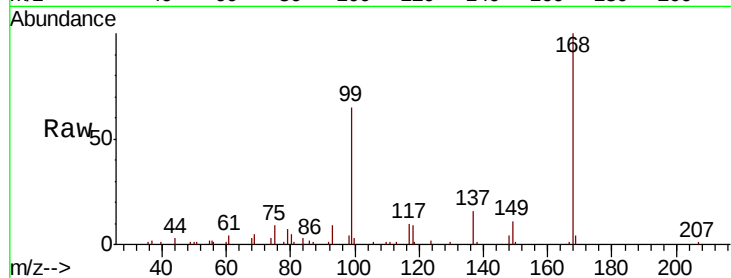
72-12000

Tot Ion:168 Resp: 148682

Ion Ratio Lower Upper

168 100

99 64.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

60000

50000

40000

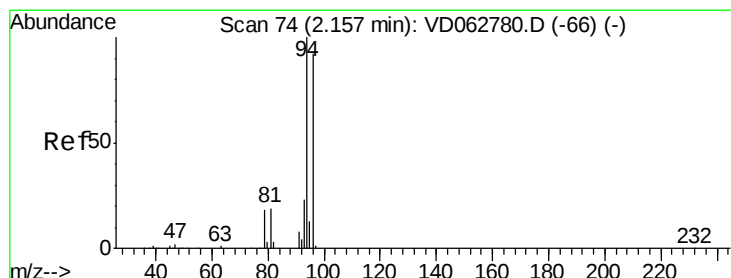
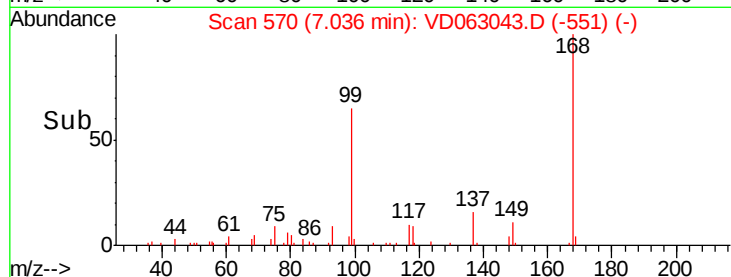
30000

20000

10000

0

Time-->



#5

Bromomethane

Concen: 3.862 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD063043.D

Acq: 8 Jul 2019 18:20

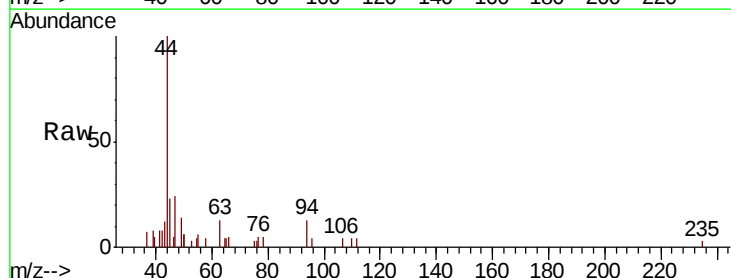
Tgt Ion: 94 Resp: 2595

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#

93 0.0 18.2 27.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.14

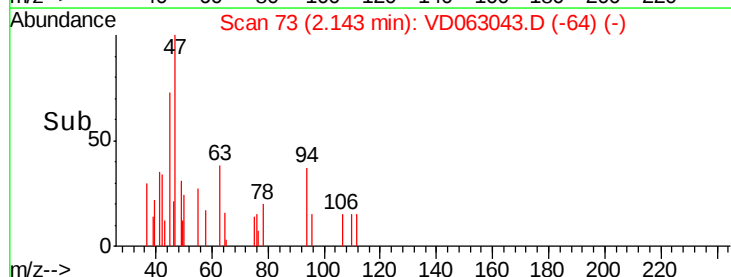
1500

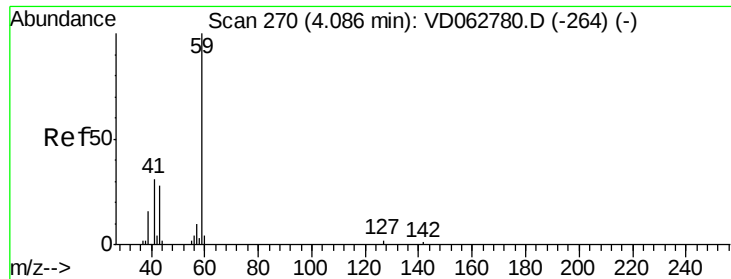
1000

500

0

Time-->



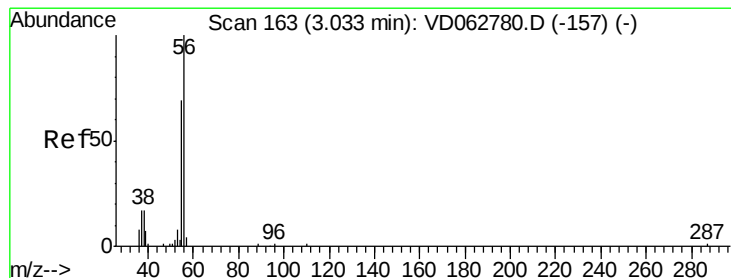
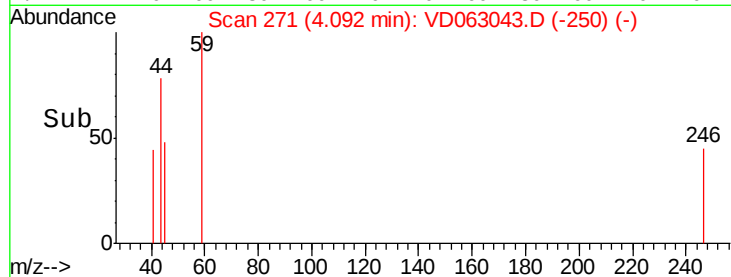
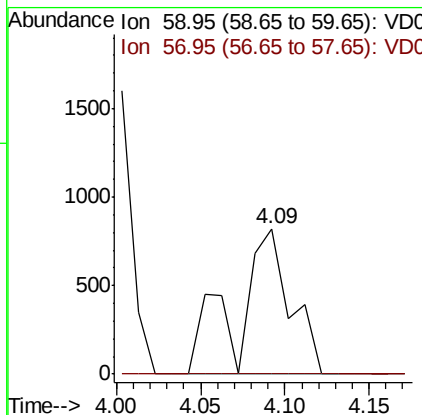
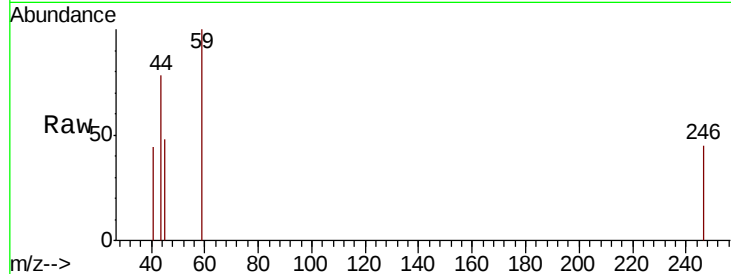


#11

Tert butyl alcohol
 Concen: 24.957 ug/l
 RT: 4.09 min Scan# 271
 Delta R.T. 0.01 min
 Lab File: VD063043.D
 Acq: 8 Jul 2019 18:20

Instrument :
 MSVOA_D
 ClientSampleId :
 72-12000

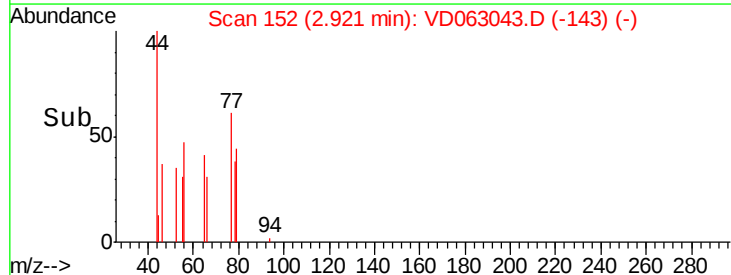
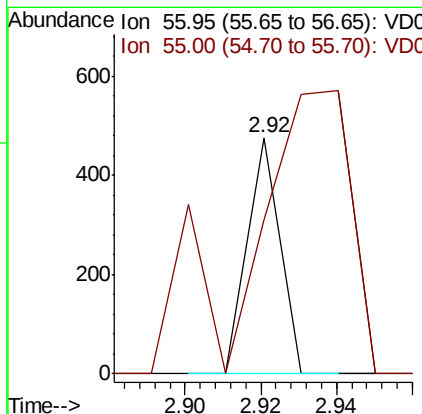
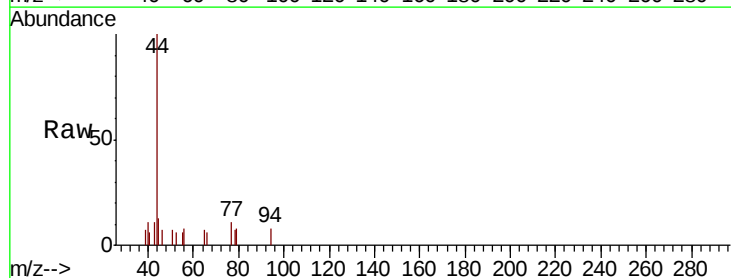
Tot Ion: 59 Resp: 1837
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.6 10.0#

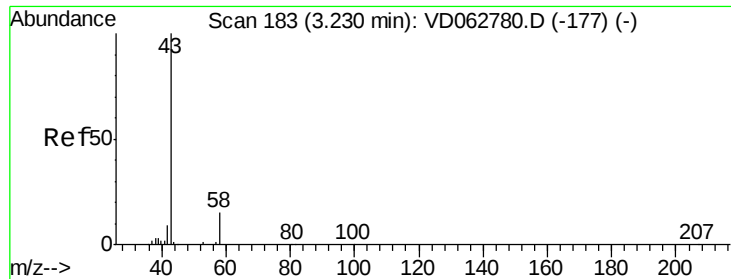


#13

Acrolein
 Concen: 3.753 ug/l
 RT: 2.92 min Scan# 152
 Delta R.T. -0.11 min
 Lab File: VD063043.D
 Acq: 8 Jul 2019 18:20

Tgt Ion: 56 Resp: 282
 Ion Ratio Lower Upper
 56 100
 55 65.2 55.4 83.0





#16

Acetone

Concen: 192.536 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD063043.D

Acq: 8 Jul 2019 18:20

Instrument :

MSVOA_D

ClientSampled :

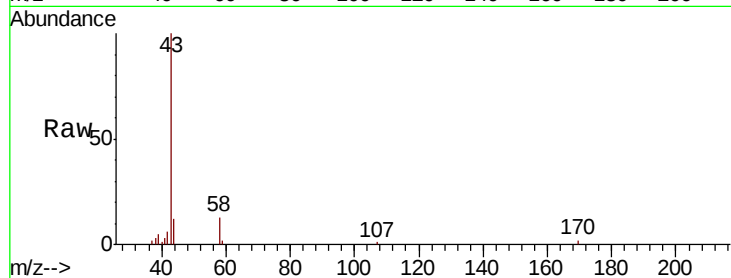
72-12000

Tot Ion: 43 Resp: 63629

Ion Ratio Lower Upper

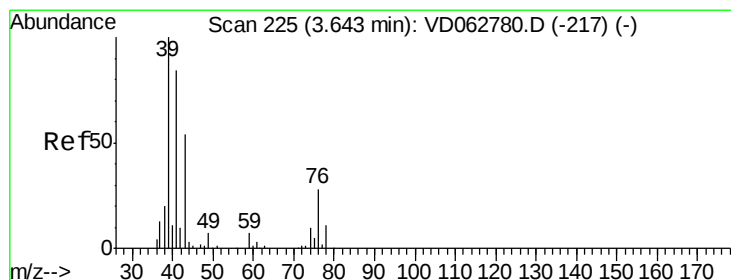
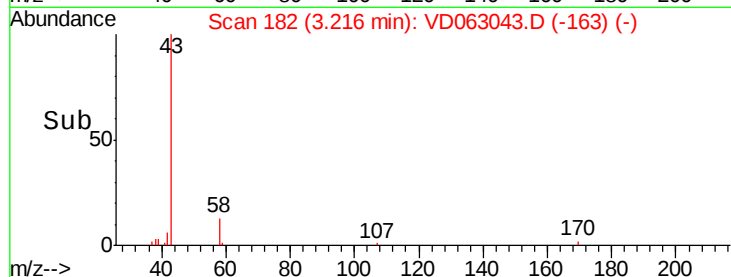
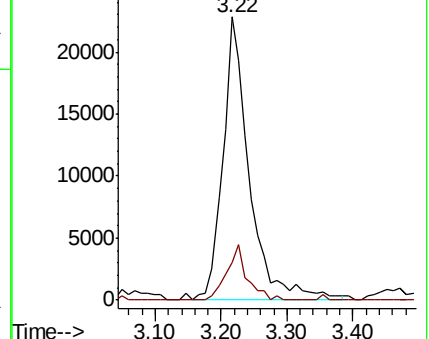
43 100

58 13.1 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 14.737 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.00 min

Lab File: VD063043.D

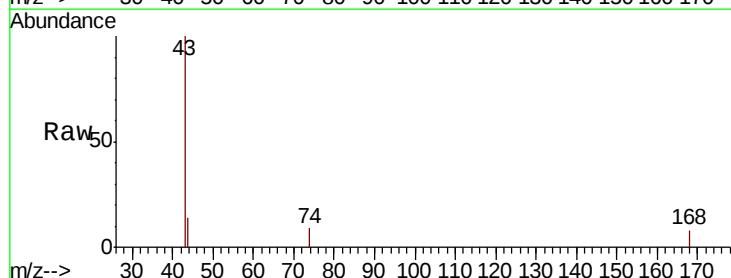
Acq: 8 Jul 2019 18:20

Tgt Ion: 43 Resp: 7190

Ion Ratio Lower Upper

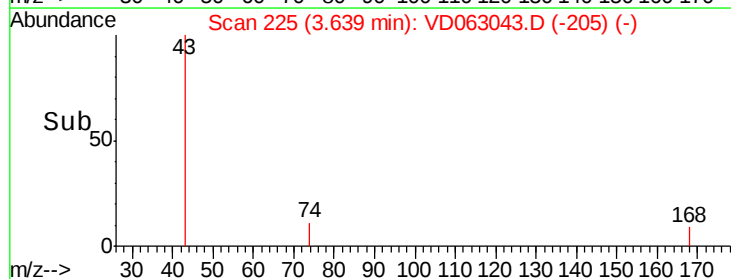
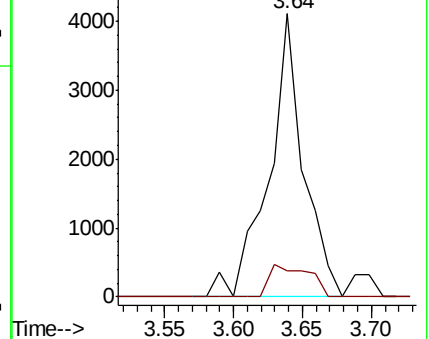
43 100

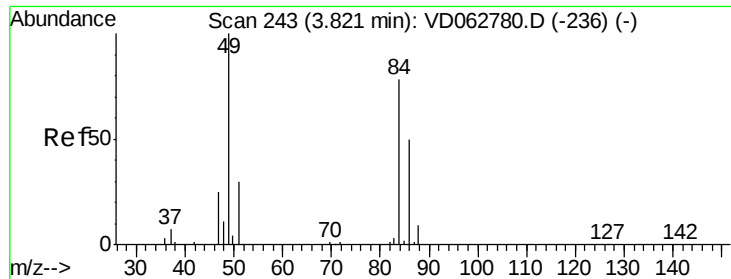
74 9.3 15.2 22.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

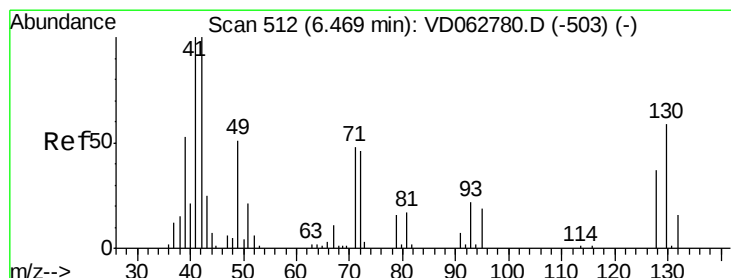
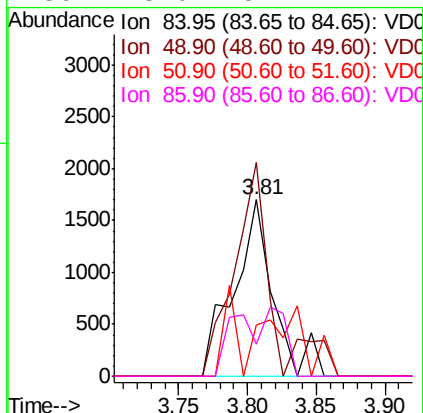
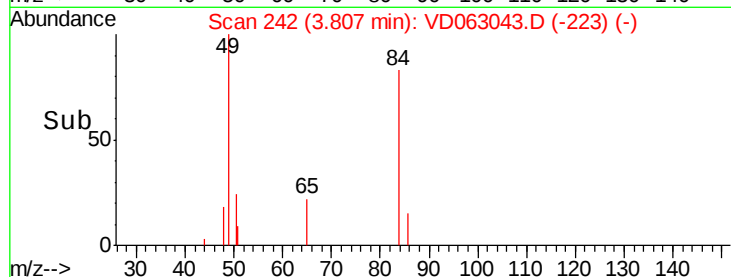
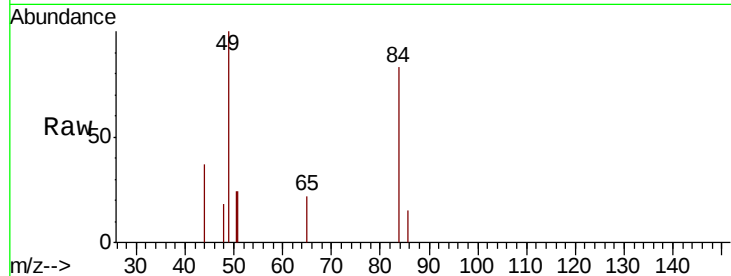




#20
Methvlene Chloride
Concen: 2.767 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD063043.D
Acq: 8 Jul 2019 18:20

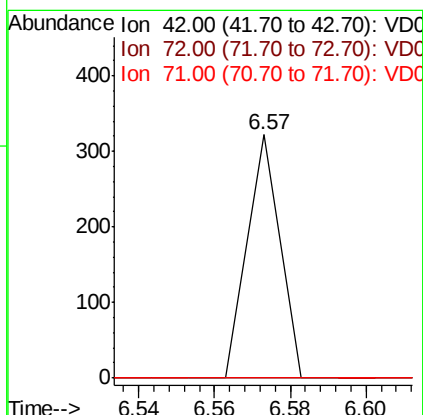
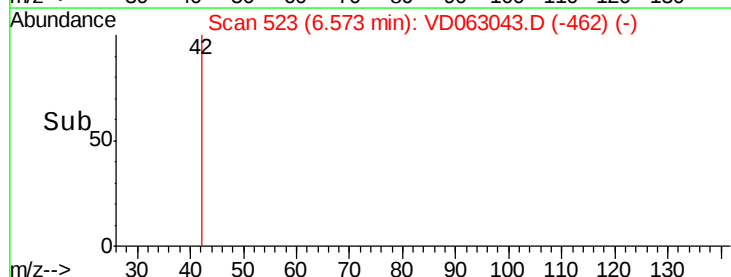
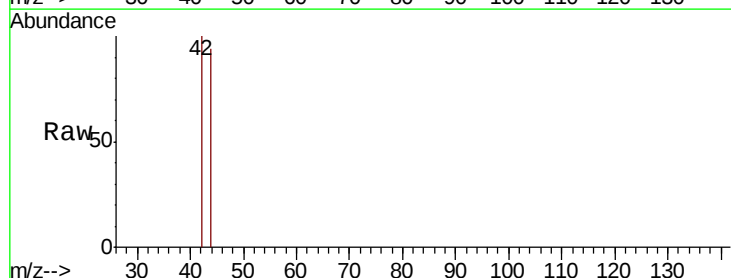
Instrument :
MSVOA_D
ClientSampleId :
72-12000

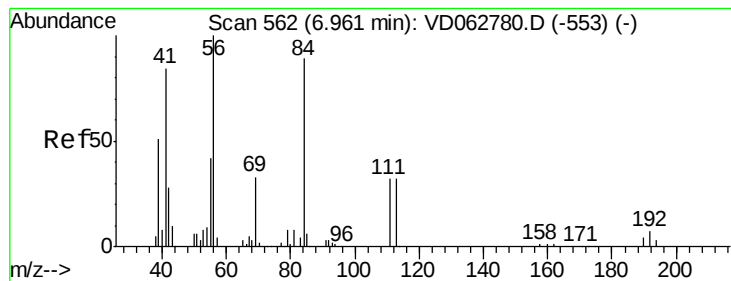
Tot Ion: 84 Resp: 3410
Ion Ratio Lower Upper
84 100
49 121.0 102.9 154.3
51 28.8 31.2 46.8#
86 18.0 51.4 77.2#



#29
Tetrahydrofuran
Concen: 1.329 ug/l
RT: 6.57 min Scan# 523
Delta R.T. 0.10 min
Lab File: VD063043.D
Acq: 8 Jul 2019 18:20

Tgt Ion: 42 Resp: 190
Ion Ratio Lower Upper
42 100
72 0.0 35.0 52.6#
71 0.0 33.3 49.9#





#31

Cyclohexane

Concen: 3.352 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.07 min

Lab File: VD063043.D

Acq: 8 Jul 2019 18:20

Instrument :

MSVOA_D

ClientSampleId :

72-12000

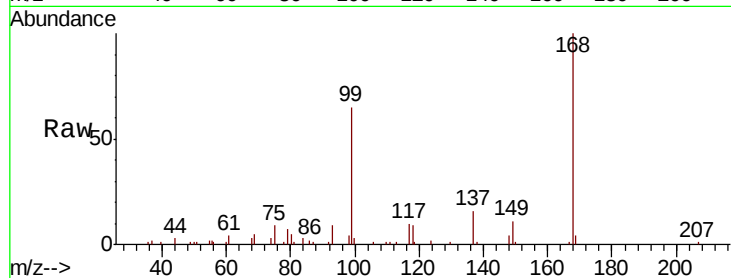
Tot Ion: 56 Resp: 5087

Ion Ratio Lower Upper

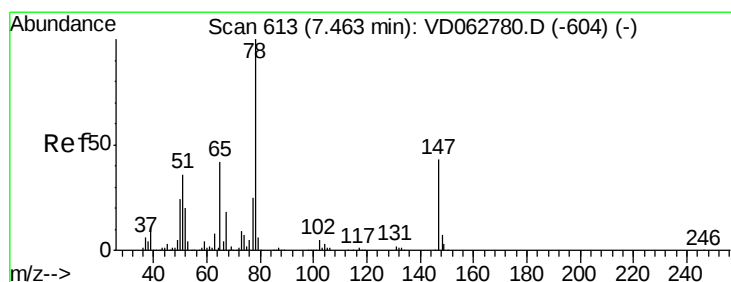
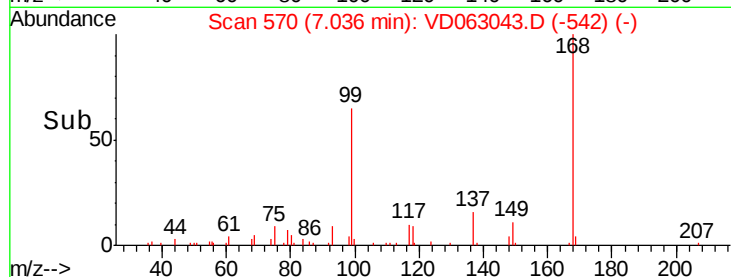
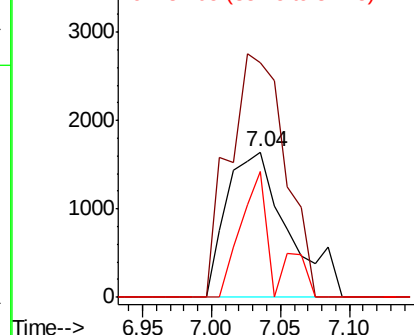
56 100

69 161.9 26.6 39.8#

84 86.5 75.5 113.3



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: 62.965 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD063043.D

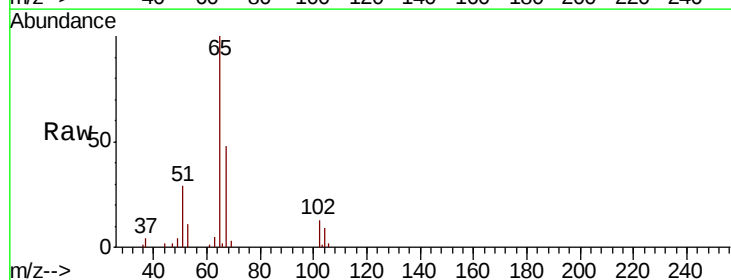
Acq: 8 Jul 2019 18:20

Tgt Ion: 65 Resp: 101761

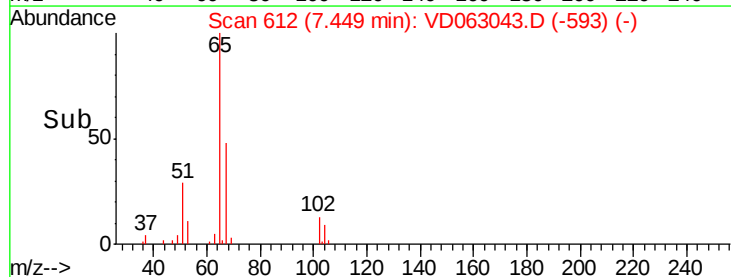
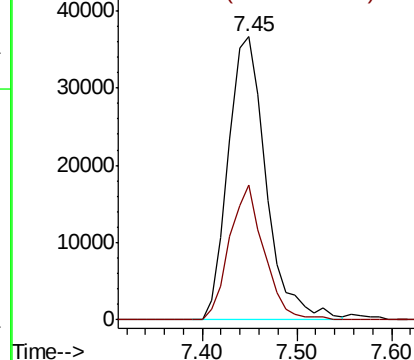
Ion Ratio Lower Upper

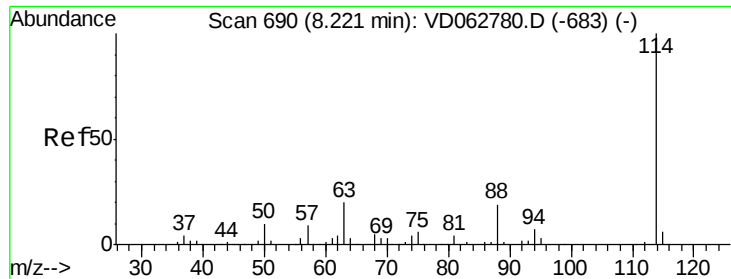
65 100

67 47.9 0.0 87.4



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

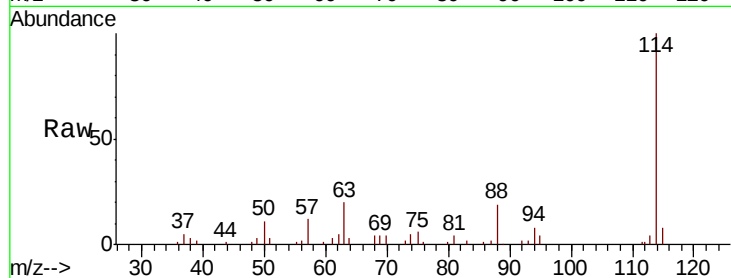




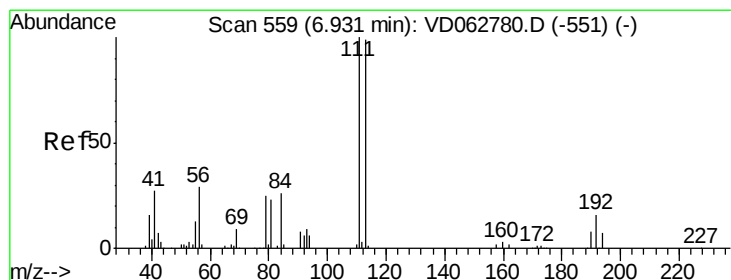
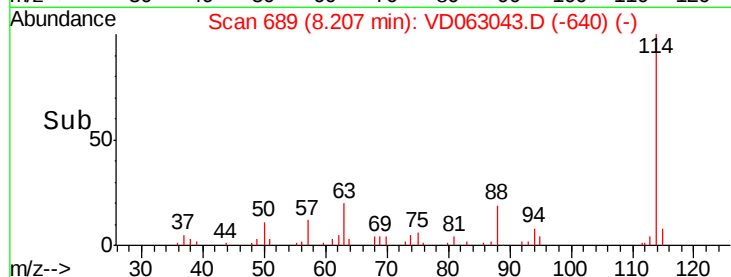
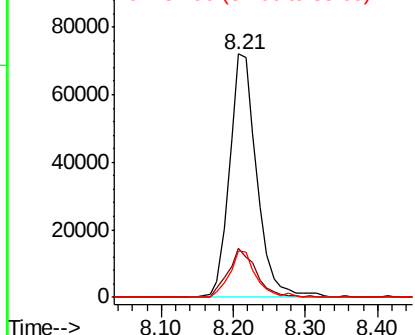
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VD063043.D
 Acq: 8 Jul 2019 18:20

Instrument :
 MSVOA_D
 ClientSampleId :
 72-12000

Tot Ion:114 Resp: 189610
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 18.9 0.0 38.8

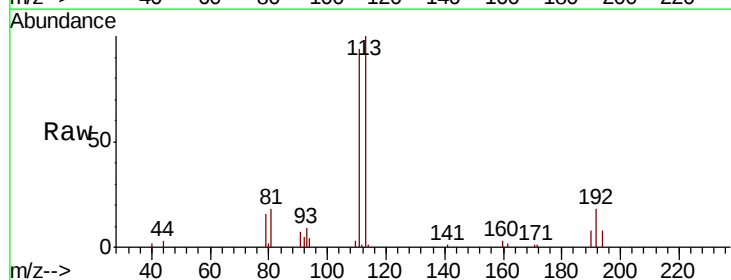


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

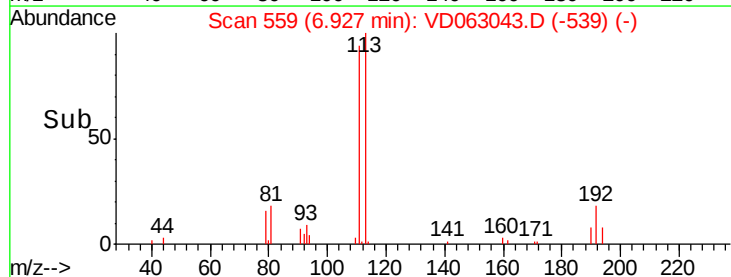
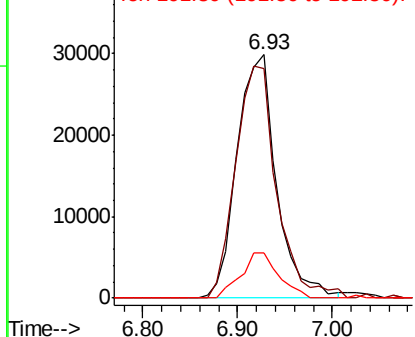


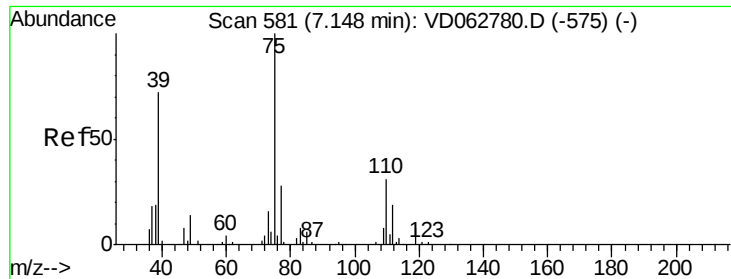
#35
 Dibromofluoromethane
 Concen: 54.188 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.00 min
 Lab File: VD063043.D
 Acq: 8 Jul 2019 18:20

Tgt Ion:113 Resp: 86635
 Ion Ratio Lower Upper
 113 100
 111 94.4 81.2 121.8
 192 18.4 12.9 19.3



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

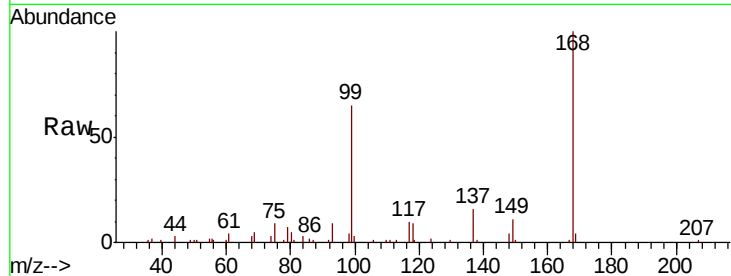




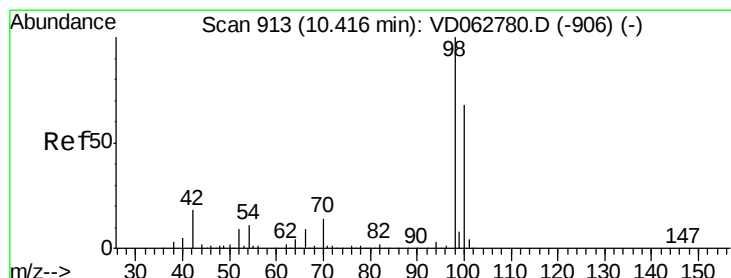
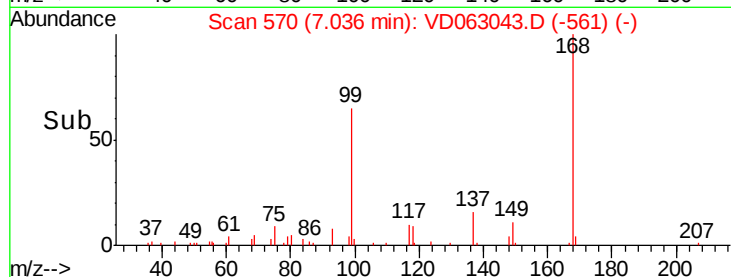
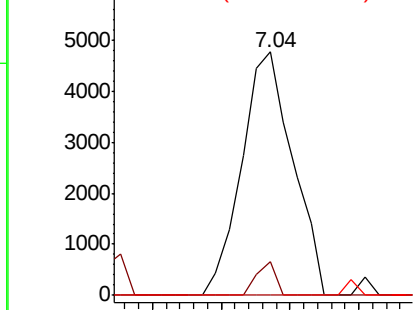
#36
 1,1-Dichloropropene
 Concen: 6.855 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.11 min
 Lab File: VD063043.D
 Acq: 8 Jul 2019 18:20

Instrument :
 MSVOA_D
 ClientSampleId :
 72-12000

Tot Ion	Ratio	Lower	Upper
75	100		
110	14.0	15.0	45.1#
77	0.0	22.2	33.2#

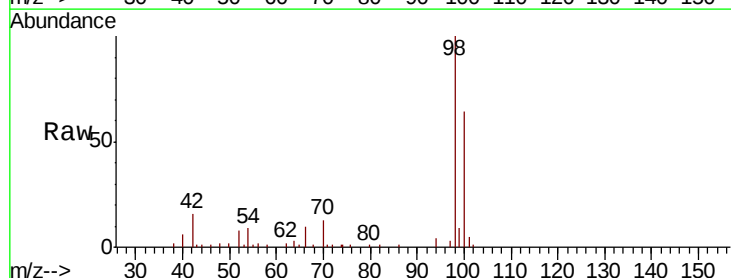


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

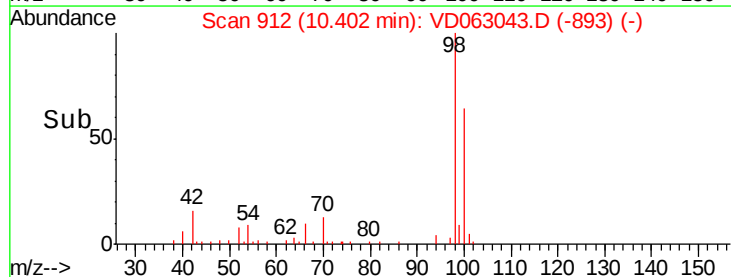
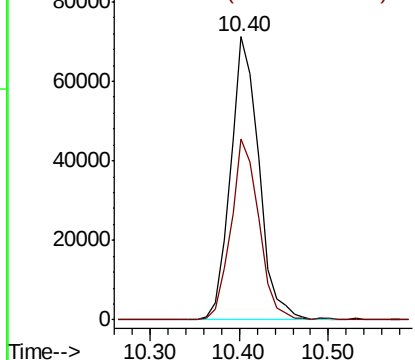


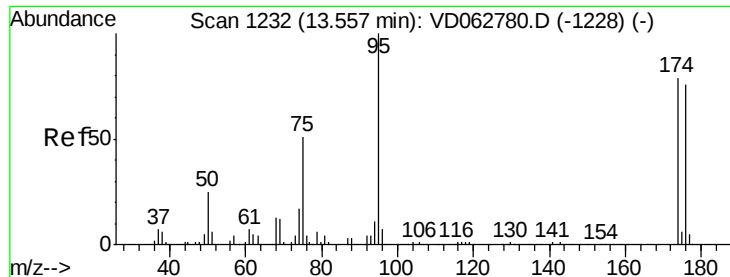
#50
 Toluene-d8
 Concen: 45.608 ug/l
 RT: 10.40 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: VD063043.D
 Acq: 8 Jul 2019 18:20

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.8	54.7	82.1



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





#62

4-Bromofluorobenzene

Concen: 52.567 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063043.D

Acq: 8 Jul 2019 18:20

Instrument :

MSVOA_D

ClientSampleId :

72-12000

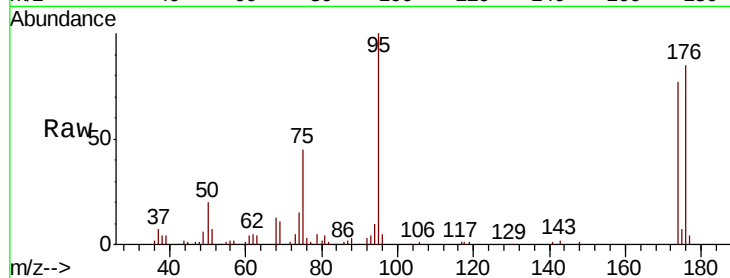
Tot Ion: 95 Resp: 83173

Ion Ratio Lower Upper

95 100

174 77.4 0.0 158.0

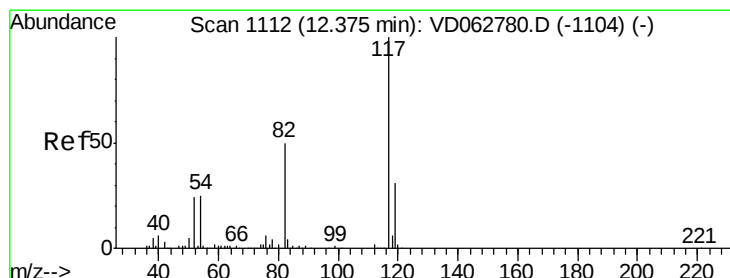
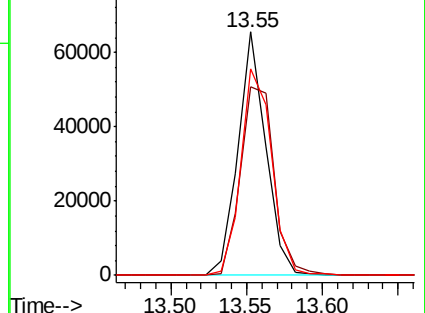
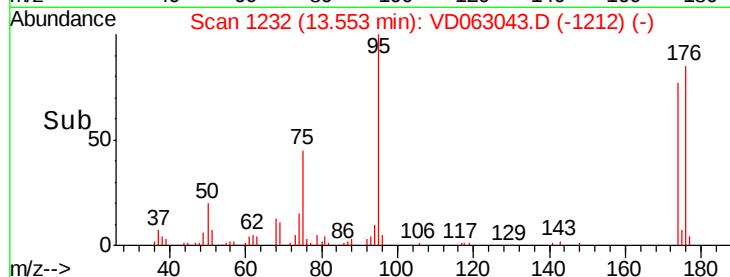
176 84.8 0.0 151.6



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: 12.36 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD063043.D

Acq: 8 Jul 2019 18:20

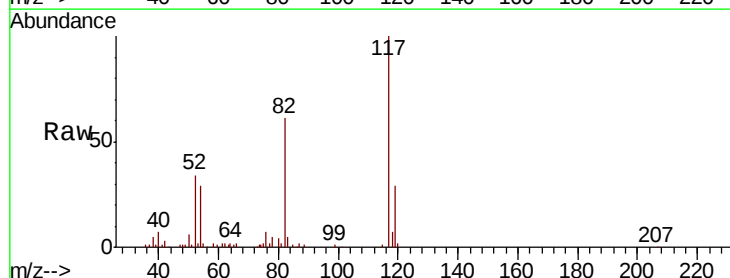
Tgt Ion: 117 Resp: 178683

Ion Ratio Lower Upper

117 100

82 60.7 40.4 60.6#

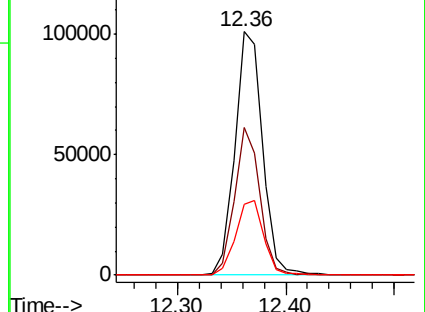
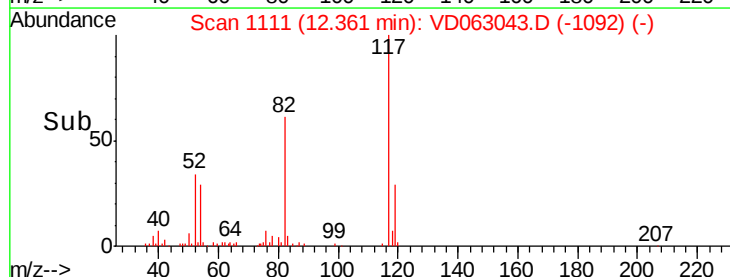
119 29.3 25.2 37.8

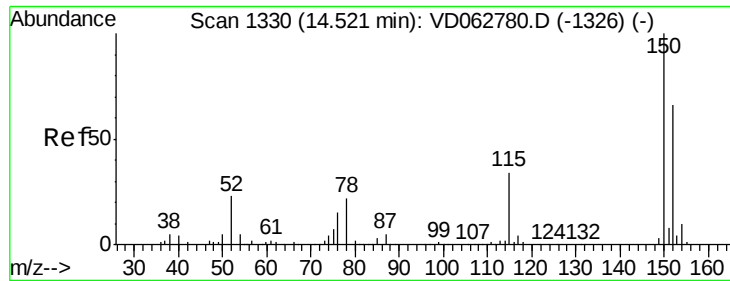


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063043.D

Acq: 8 Jul 2019 18:20

Instrument :

MSVOA_D

ClientSampleId :

72-12000

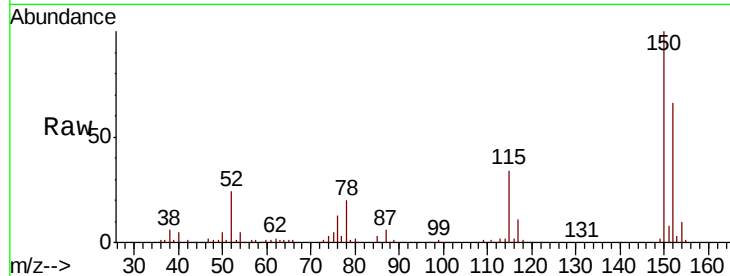
Tot Ion:152 Resp: 108531

Ion Ratio Lower Upper

152 100

115 51.6 29.2 87.6

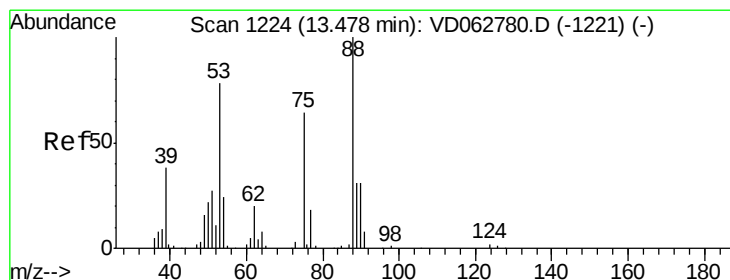
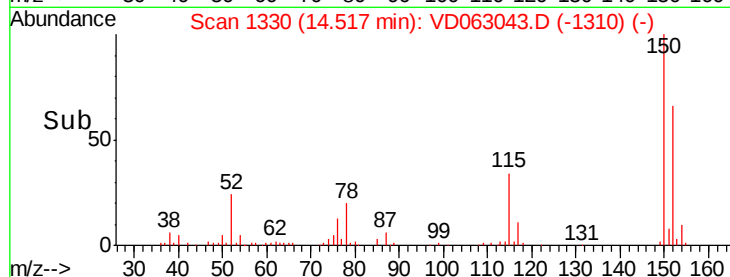
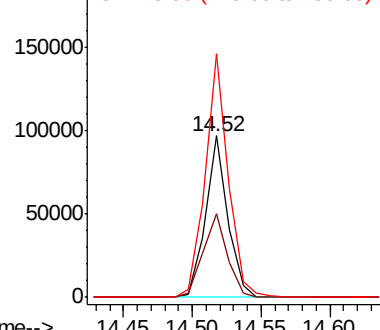
150 150.9 0.0 305.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 121.178 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063043.D

Acq: 8 Jul 2019 18:20

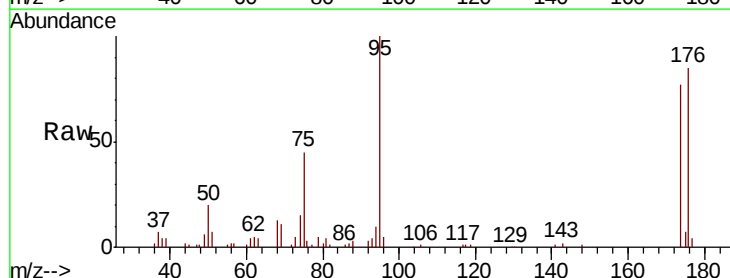
Tgt Ion: 75 Resp: 39791

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#



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

