

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082019\
 Data File : VD063691.D
 Acq On : 20 Aug 2019 18:13
 Operator : JC/SY
 Sample : K4388-06
 Misc : 5.09g/5ml/MSVOA_D/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T4-B4-(2)

Quant Time: Aug 21 03:52:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	99927	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.20	114	186666	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.36	117	168802	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	52754	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	132759	124.29	ug/l	-0.04
Spiked Amount			Recovery	=	248.58%	
35) Dibromofluoromethane	6.91	113	105002	66.79	ug/l	-0.03
Spiked Amount			Recovery	=	133.58%	
50) Toluene-d8	10.39	98	157426	45.55	ug/l	-0.03
Spiked Amount			Recovery	=	91.10%	
62) 4-Bromofluorobenzene	13.54	95	56719	36.21	ug/l	-0.02
Spiked Amount			Recovery	=	72.42%	

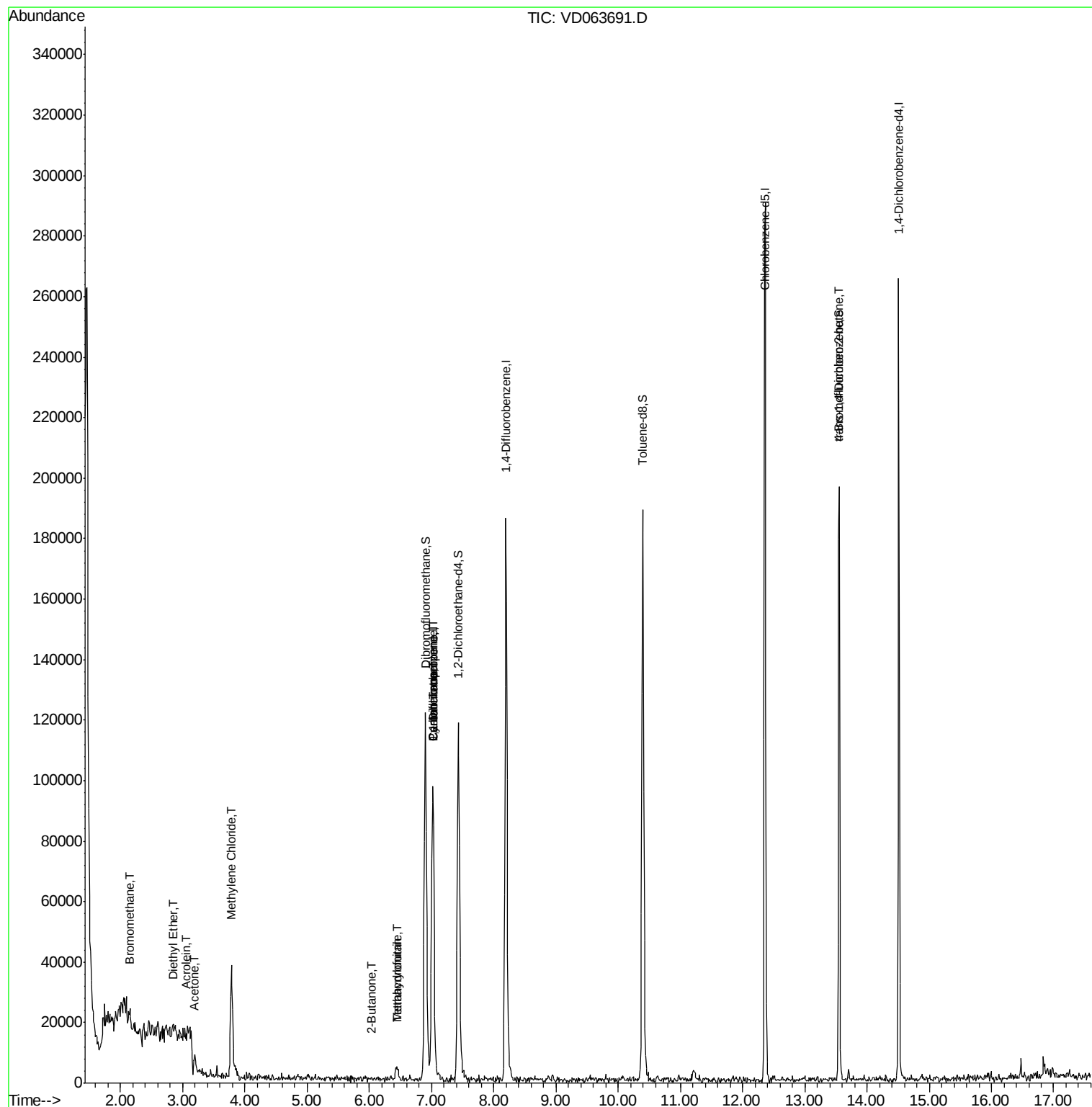
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	5394	12.191	ug/l #	11
8) Diethyl Ether	2.85	74	919	3.539	ug/l	53
13) Acrolein	3.06	56	509	11.121	ug/l #	18
16) Acetone	3.20	43	6290	28.968	ug/l	99
20) Methylene Chloride	3.79	84	23297	24.813	ug/l #	93
25) 2-Butanone	6.02	43	421	1.963	ug/l #	58
29) Tetrahydrofuran	6.45	42	3820	38.228	ug/l #	75
31) Cyclohexane	7.02	56	2390	2.478	ug/l #	13
36) 1,1-Dichloropropene	7.03	75	7661	4.643	ug/l #	42
38) Carbon Tetrachloride	7.02	117	10842	4.359	ug/l #	13
41) Methacrylonitrile	6.44	41	1457	1.673	ug/l #	37
81) trans-1,4-Dichloro-2-buten	13.54	75	23312	143.259	ug/l #	1

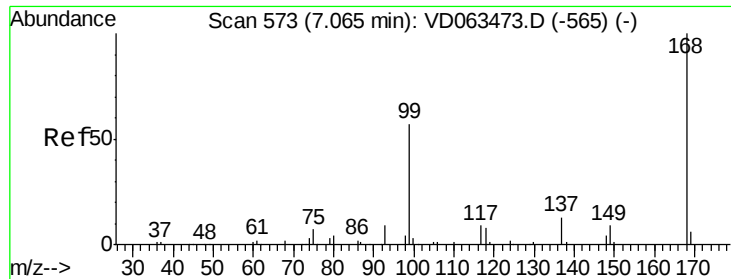
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD082019\
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Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.04 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Instrument :

MSVOA_D

ClientSampleId :

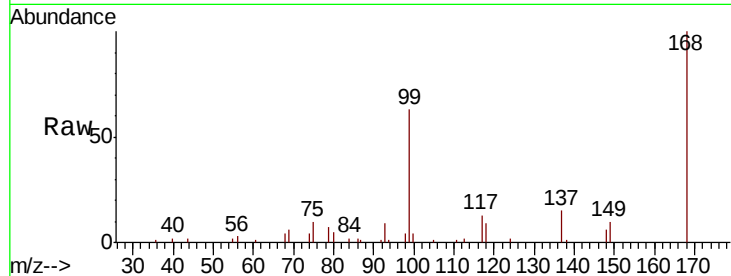
T4-B4-(2)

Tgt Ion:168 Resp: 99927

Ion Ratio Lower Upper

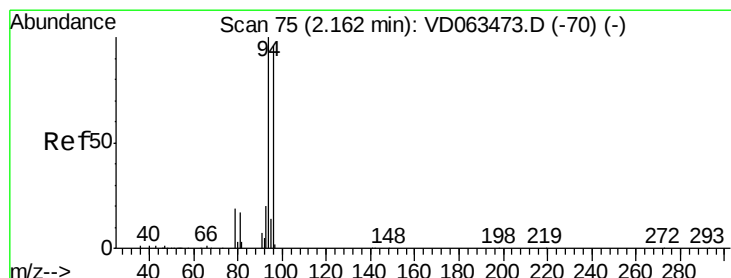
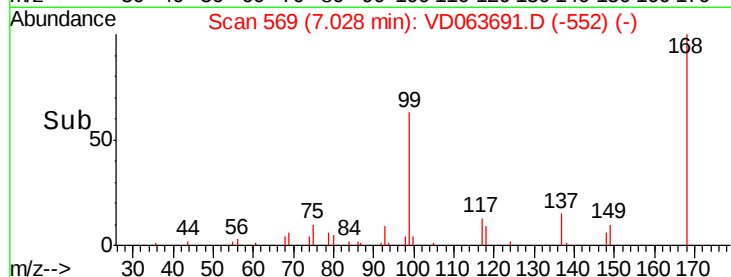
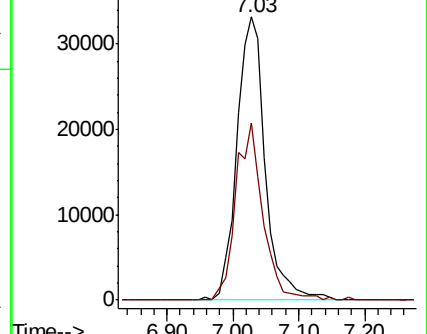
168 100

99 62.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 12.191 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.02 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

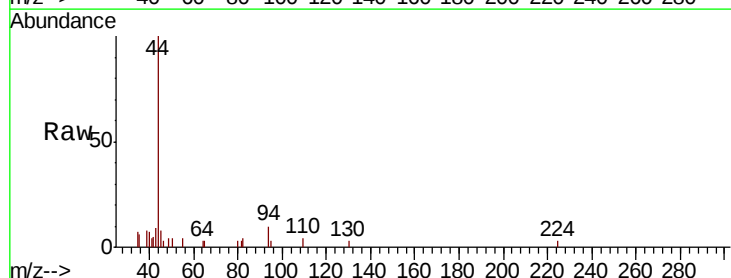
Tgt Ion: 94 Resp: 5394

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

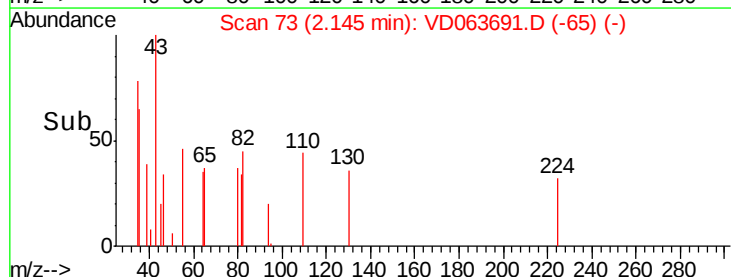
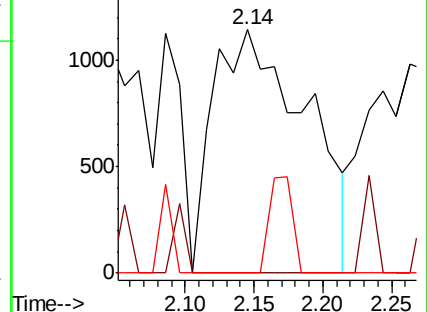
93 0.0 15.8 23.8#

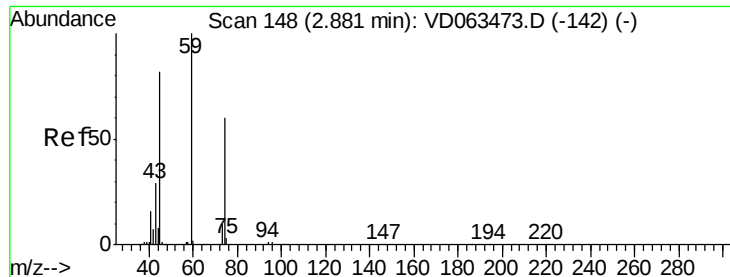


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 3.539 ug/l

RT: 2.85 min Scan# 145

Delta R.T. -0.03 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Instrument :

MSVOA_D

ClientSampleId :

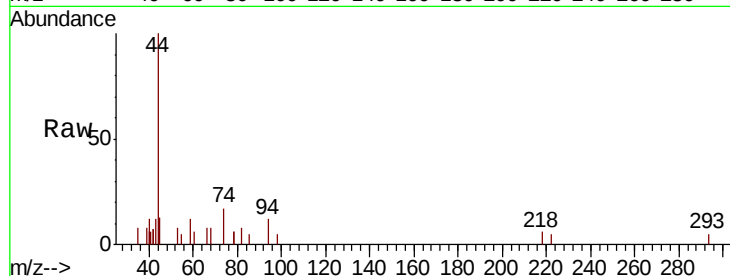
T4-B4-(2)

Tgt Ion: 74 Resp: 919

Ion Ratio Lower Upper

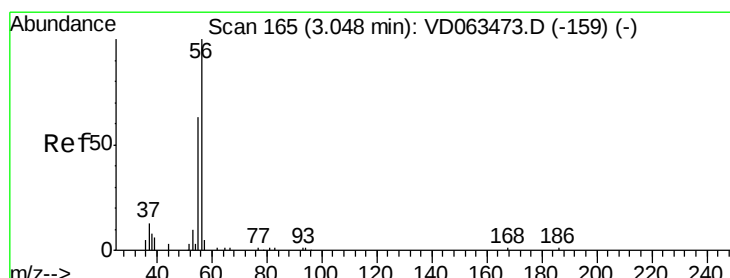
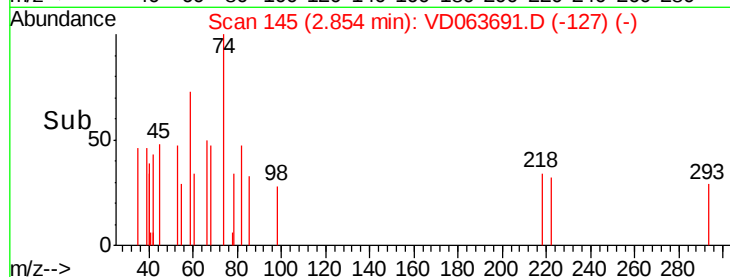
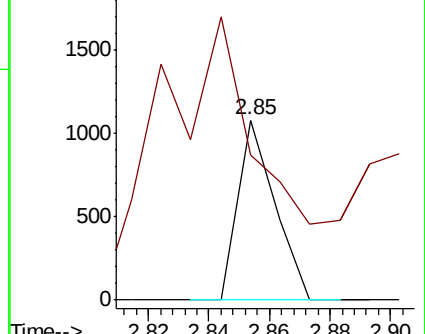
74 100

45 80.9 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#13

Acrolein

Concen: 11.121 ug/l

RT: 3.06 min Scan# 166

Delta R.T. 0.01 min

Lab File: VD063691.D

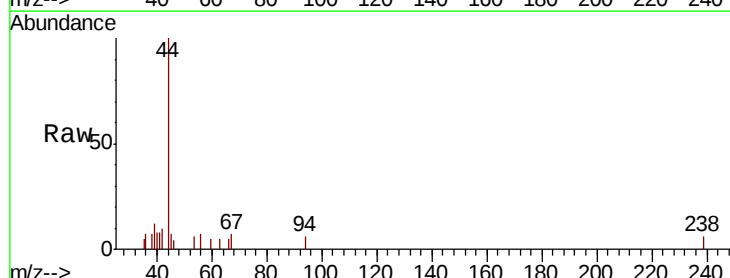
Acq: 20 Aug 2019 18:13

Tgt Ion: 56 Resp: 509

Ion Ratio Lower Upper

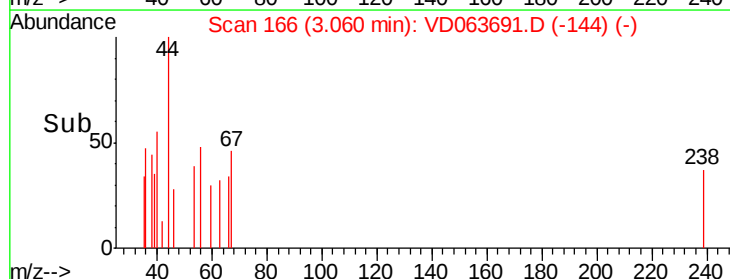
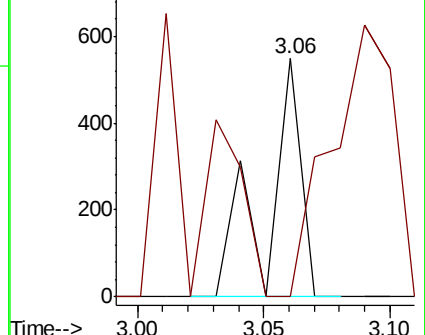
56 100

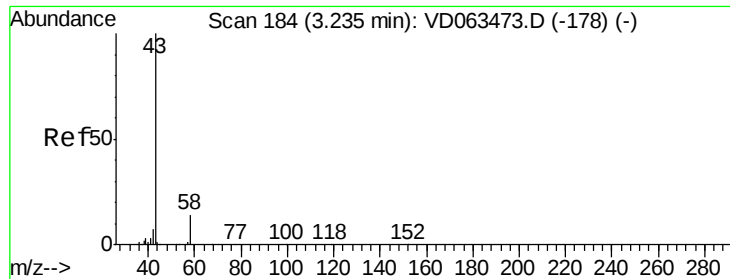
55 0.0 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 28.968 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.04 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Instrument :

MSVOA_D

ClientSampleId :

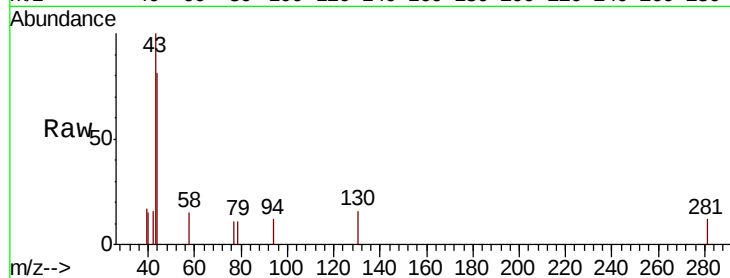
T4-B4-(2)

Tgt Ion: 43 Resp: 6290

Ion Ratio Lower Upper

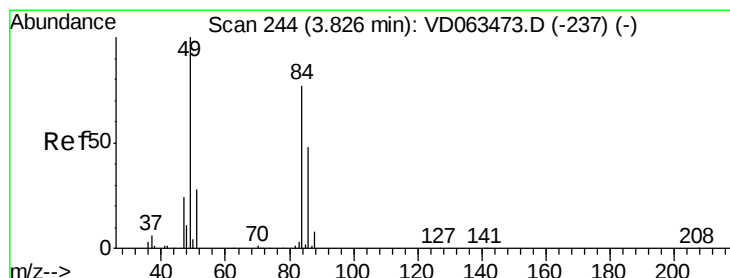
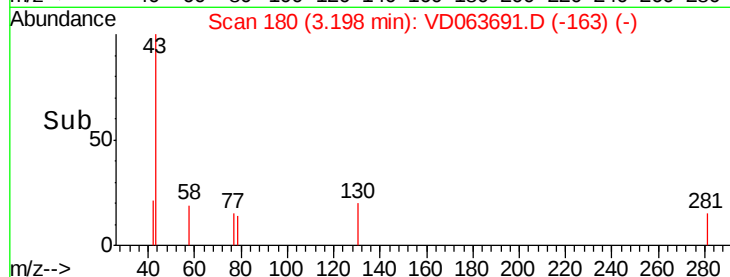
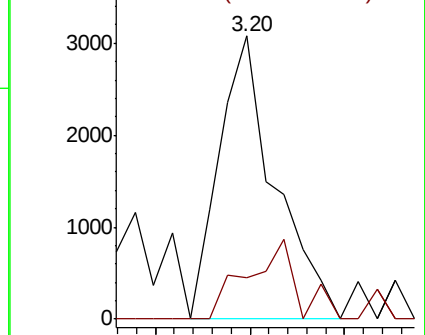
43 100

58 14.9 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 24.813 ug/l

RT: 3.79 min Scan# 240

Delta R.T. -0.04 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Tgt Ion: 84 Resp: 23297

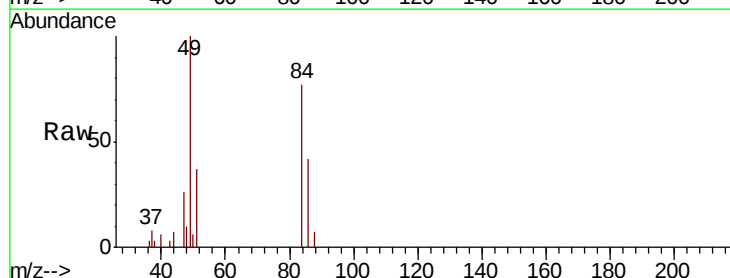
Ion Ratio Lower Upper

84 100

49 130.6 103.4 155.2

51 48.8 28.5 42.7#

86 54.4 49.4 74.2

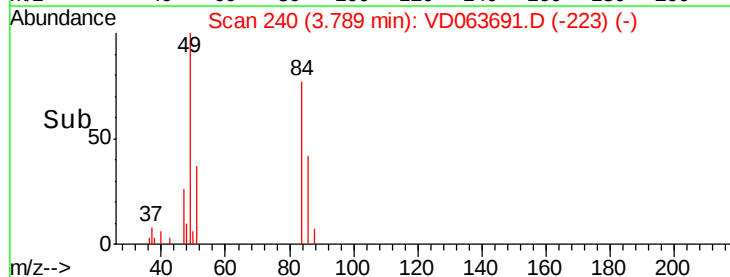
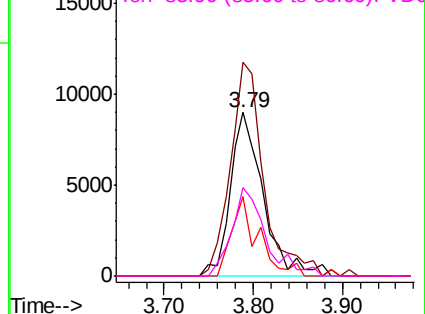


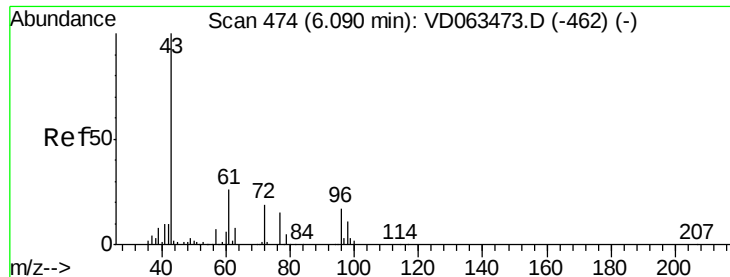
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 1.963 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.07 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Instrument :

MSVOA_D

ClientSampleId :

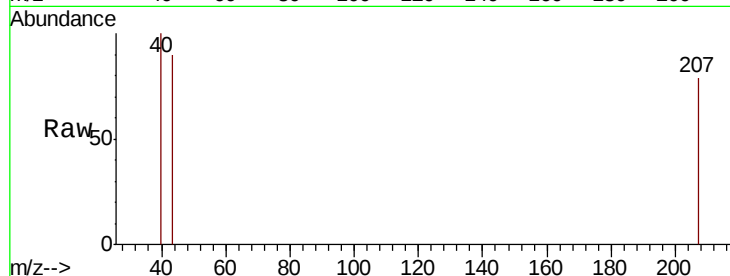
T4-B4-(2)

Tgt Ion: 43 Resp: 421

Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.02

400

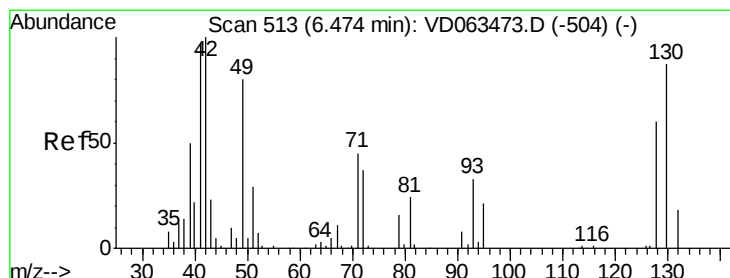
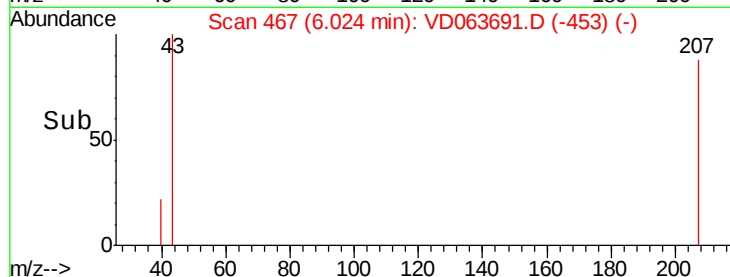
300

200

100

0

Time--> 5.98 6.00 6.02 6.04 6.06



#29

Tetrahydrofuran

Concen: 38.228 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.03 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

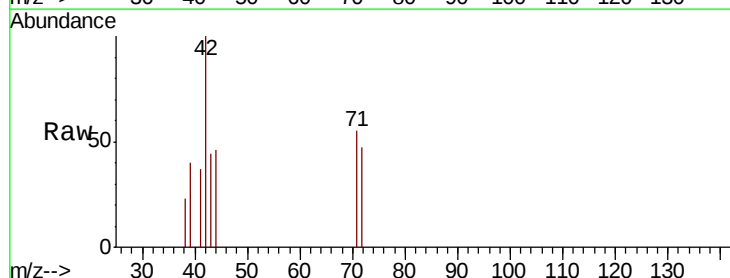
Tgt Ion: 42 Resp: 3820

Ion Ratio Lower Upper

42 100

72 52.1 31.5 47.3#

71 24.2 33.8 50.8#



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

2000

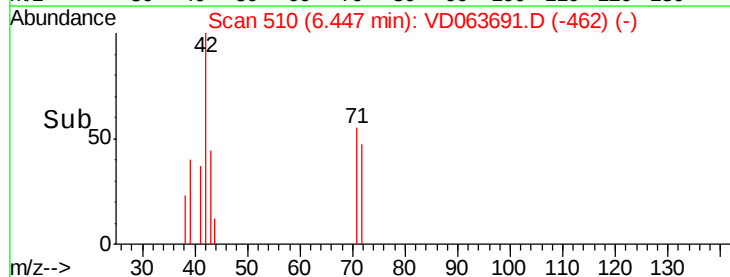
1500

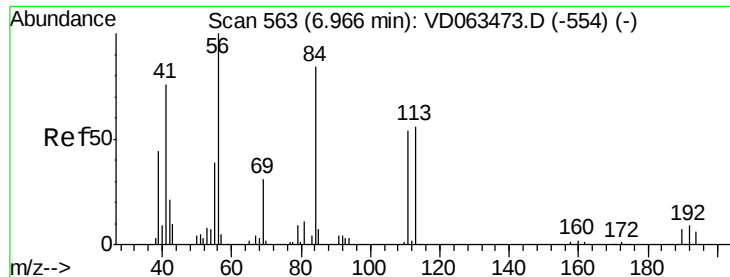
1000

500

0

Time--> 6.35 6.40 6.45 6.50

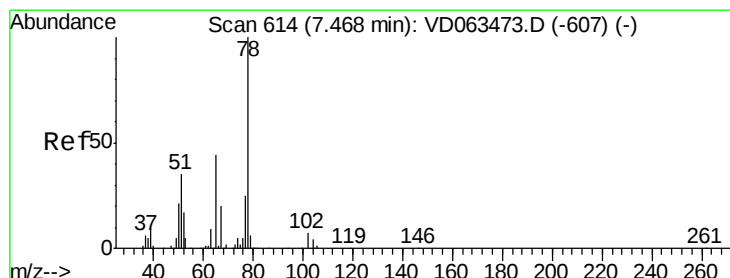
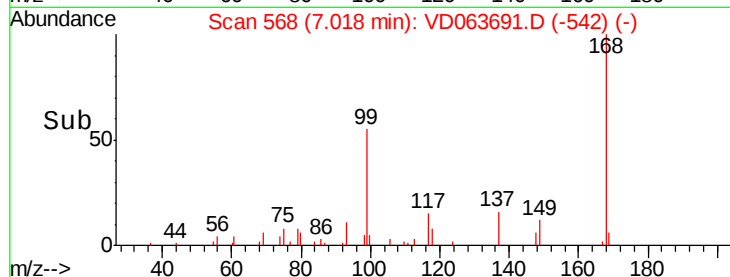
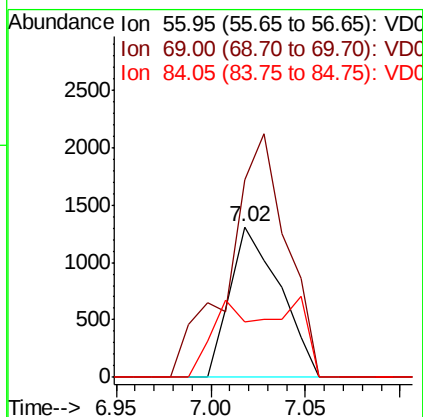
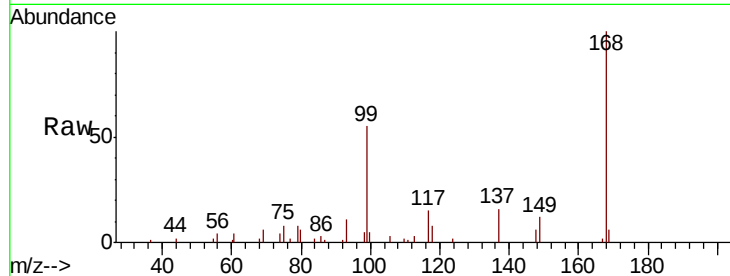




#31
Cyclohexane
Concen: 2.478 ug/l
RT: 7.02 min Scan# 568
Delta R.T. 0.05 min
Lab File: VD063691.D
Acq: 20 Aug 2019 18:13

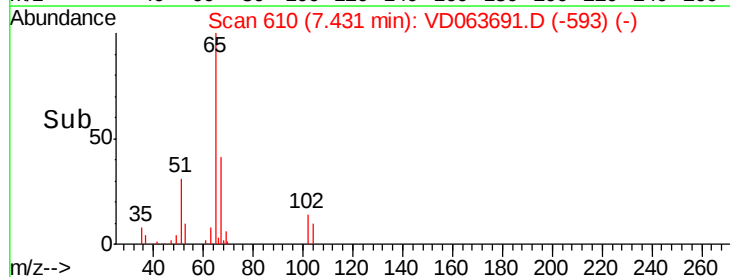
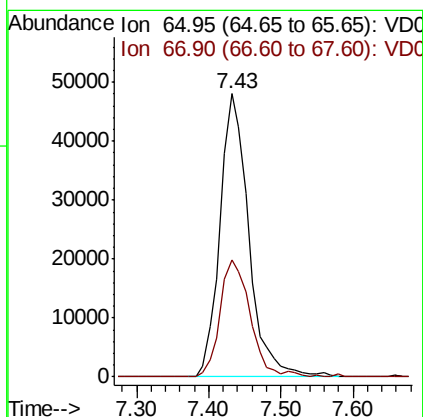
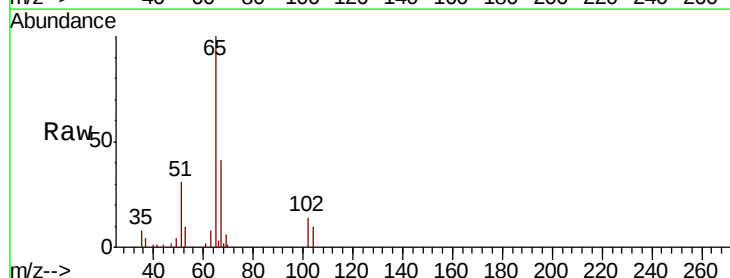
Instrument :
MSVOA_D
ClientSampleId :
T4-B4-(2)

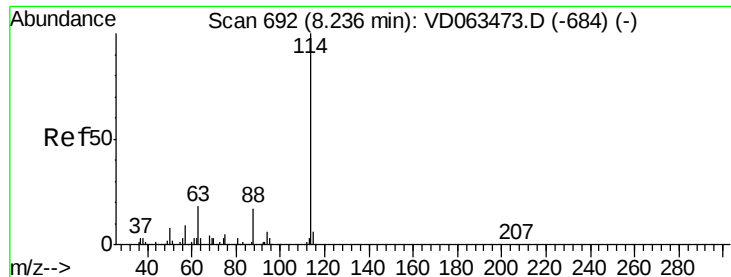
Tgt Ion: 56 Resp: 2390
Ion Ratio Lower Upper
56 100
69 130.9 25.0 37.6#
84 37.2 69.7 104.5#



#33
1,2-Dichloroethane-d4
Concen: 124.290 ug/l
RT: 7.43 min Scan# 610
Delta R.T. -0.04 min
Lab File: VD063691.D
Acq: 20 Aug 2019 18:13

Tgt Ion: 65 Resp: 132759
Ion Ratio Lower Upper
65 100
67 41.2 0.0 89.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 688

Delta R.T. -0.04 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Instrument :

MSVOA_D

ClientSampled :

T4-B4-(2)

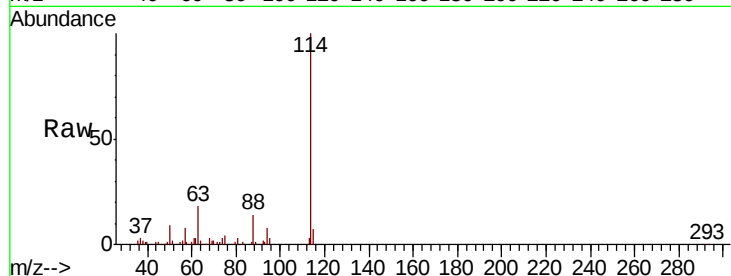
Tgt Ion:114 Resp: 186666

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.2

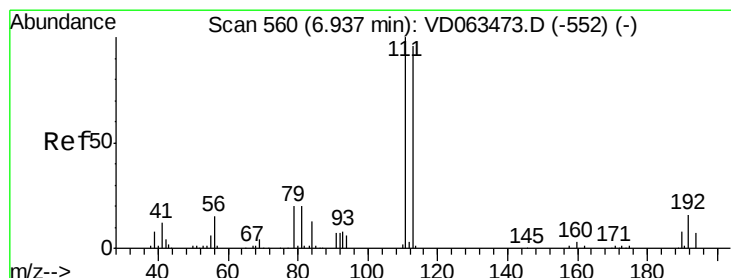
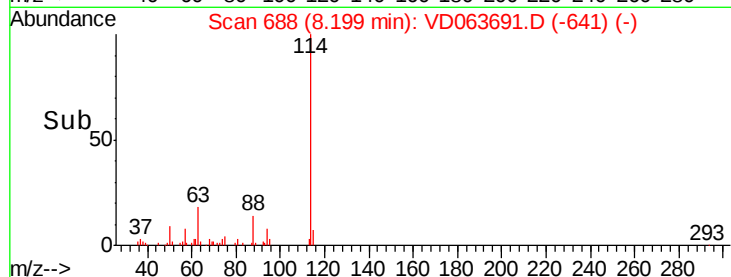
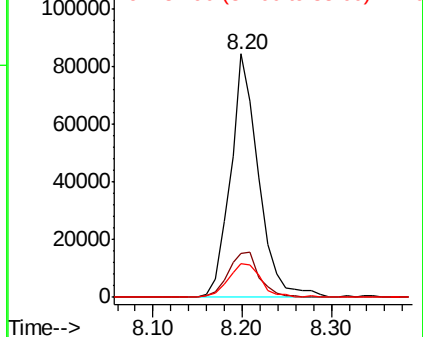
88 13.9 0.0 35.0



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: 66.790 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

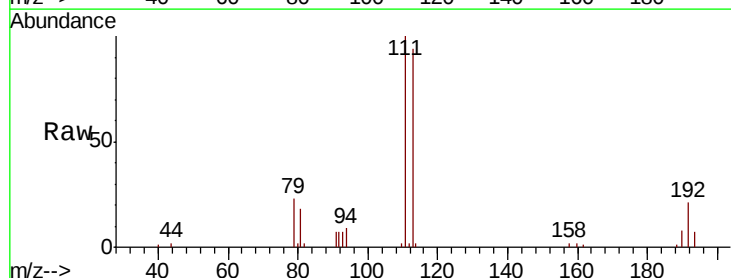
Tgt Ion:113 Resp: 105002

Ion Ratio Lower Upper

113 100

111 106.6 83.1 124.7

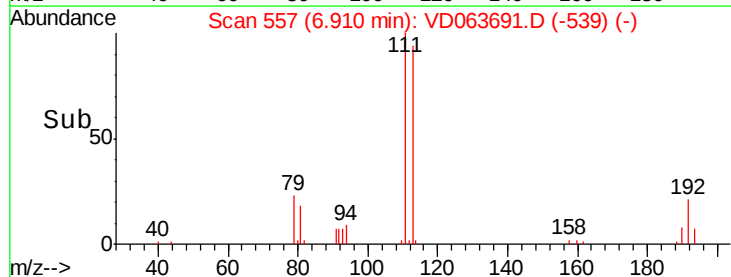
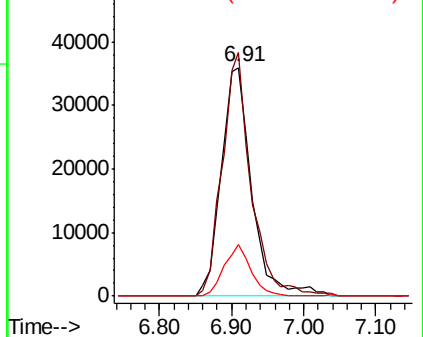
192 22.6 13.1 19.7#

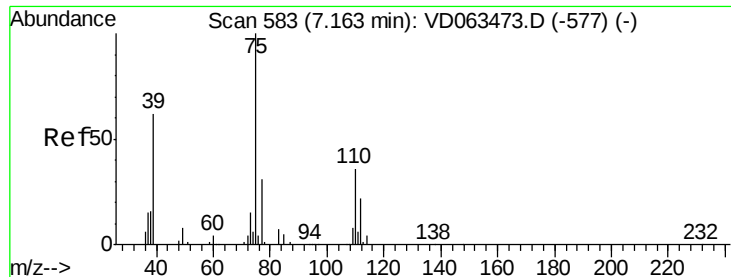


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

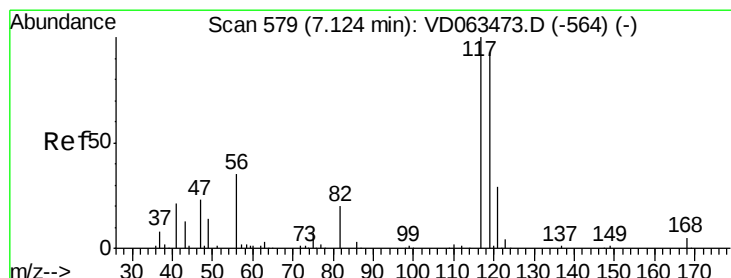
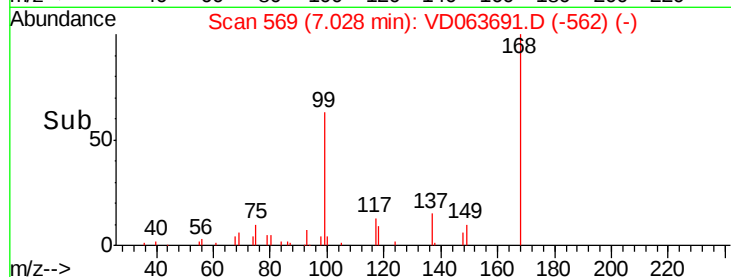
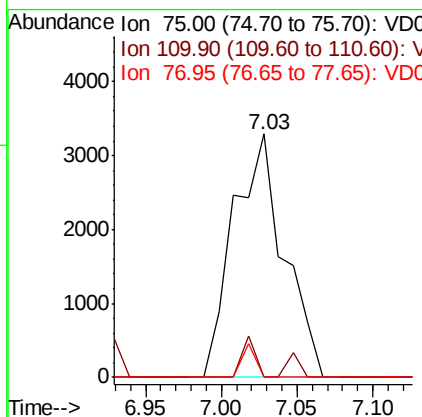
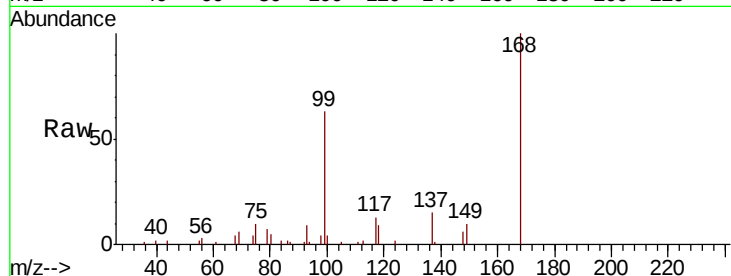




#36
 1,1-Dichloropropene
 Concen: 4.643 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.14 min
 Lab File: VD063691.D
 Acq: 20 Aug 2019 18:13

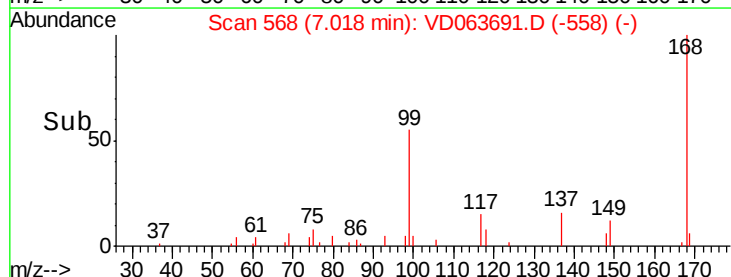
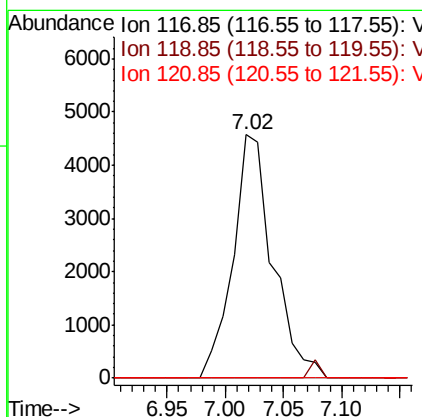
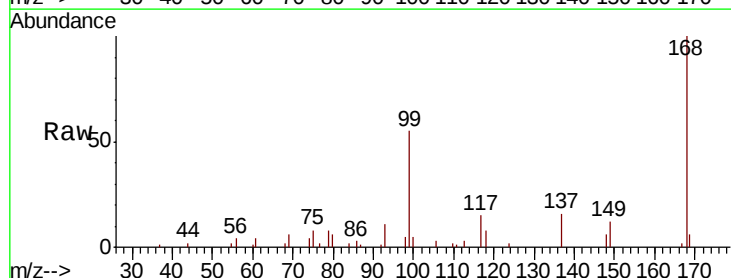
Instrument :
 MSVOA_D
 ClientSampleId :
 T4-B4-(2)

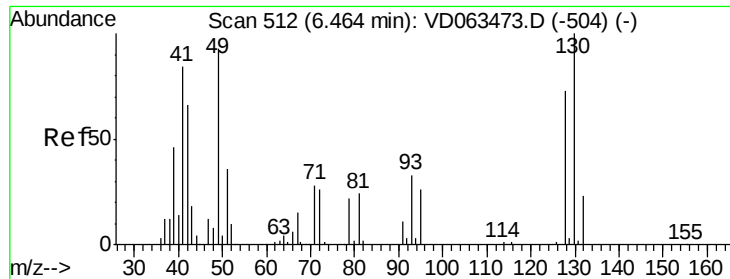
Tgt Ion: 75 Resp: 7661
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.6 52.8#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 4.359 ug/l
 RT: 7.02 min Scan# 568
 Delta R.T. -0.11 min
 Lab File: VD063691.D
 Acq: 20 Aug 2019 18:13

Tgt Ion: 117 Resp: 10842
 Ion Ratio Lower Upper
 117 100
 119 0.0 74.2 111.2#
 121 0.0 23.1 34.7#





#41

Methacrylonitrile

Concen: 1.673 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.03 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Instrument :

MSVOA_D

ClientSampleId :

T4-B4-(2)

Tgt Ion: 41 Resp: 1457

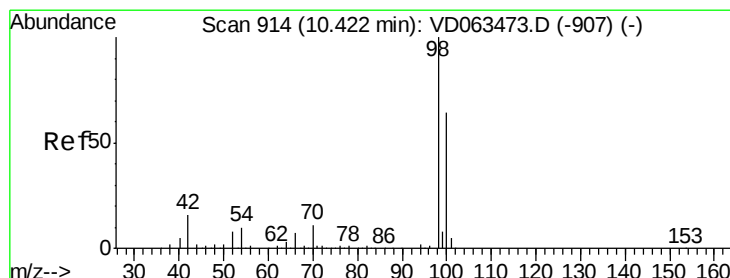
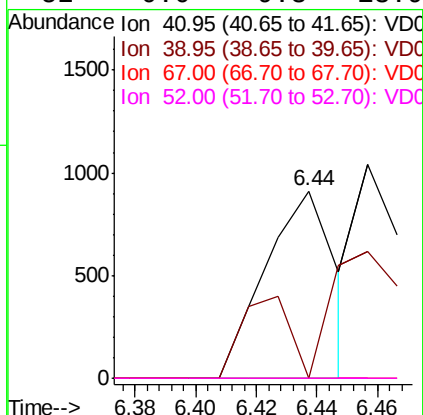
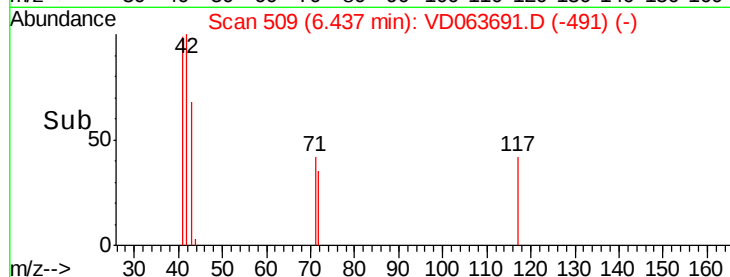
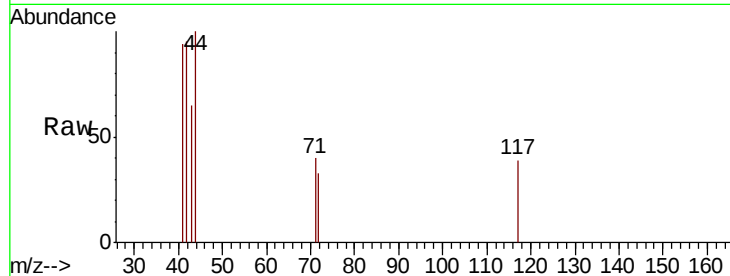
Ion Ratio Lower Upper

41 100

39 0.0 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#



#50

Toluene-d8

Concen: 45.547 ug/l

RT: 10.39 min Scan# 911

Delta R.T. -0.03 min

Lab File: VD063691.D

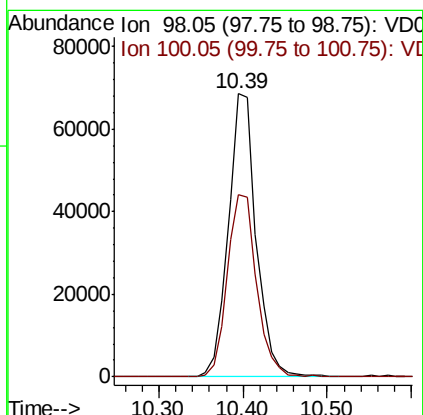
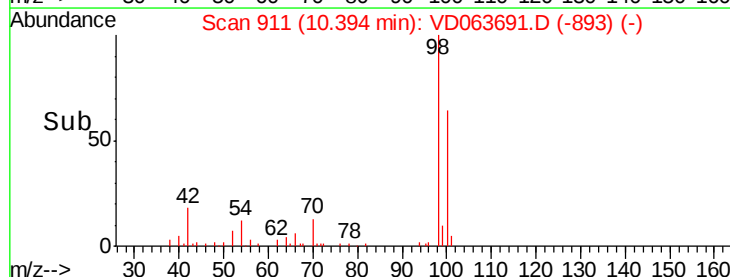
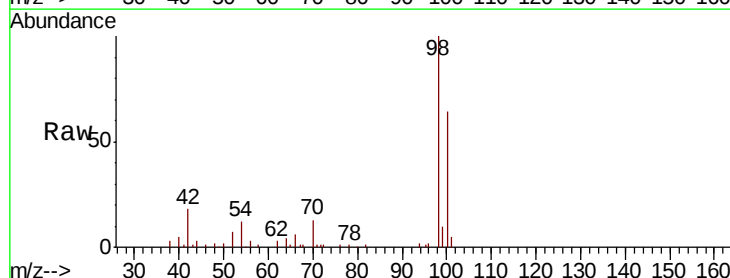
Acq: 20 Aug 2019 18:13

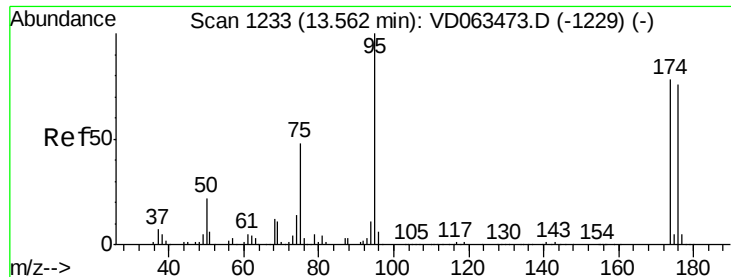
Tgt Ion: 98 Resp: 157426

Ion Ratio Lower Upper

98 100

100 64.3 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 36.206 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Instrument :

MSVOA_D

ClientSampleId :

T4-B4-(2)

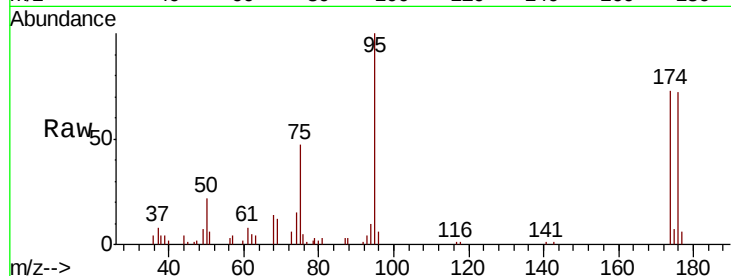
Tgt Ion: 95 Resp: 56719

Ion Ratio Lower Upper

95 100

174 72.9 0.0 155.4

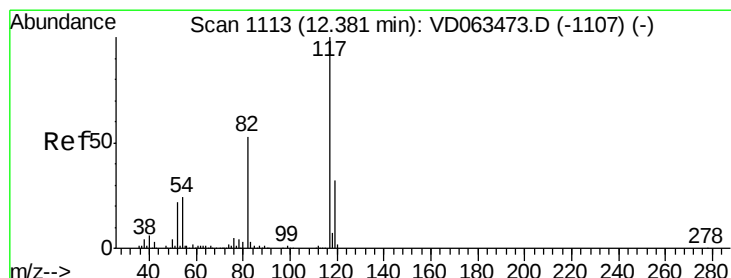
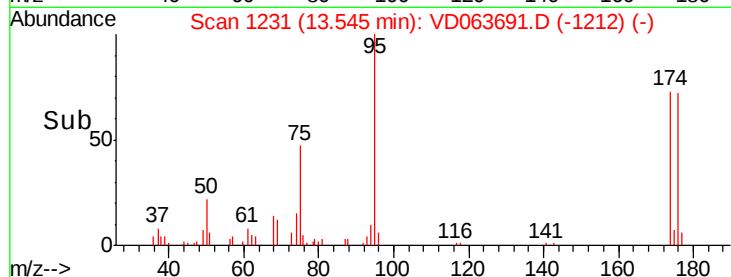
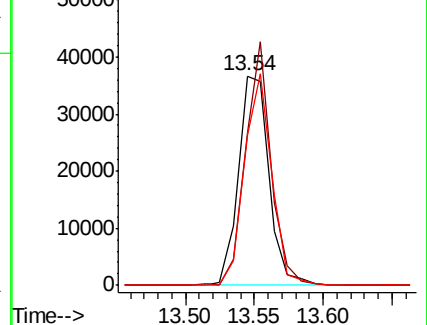
176 71.8 0.0 152.4



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. -0.02 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

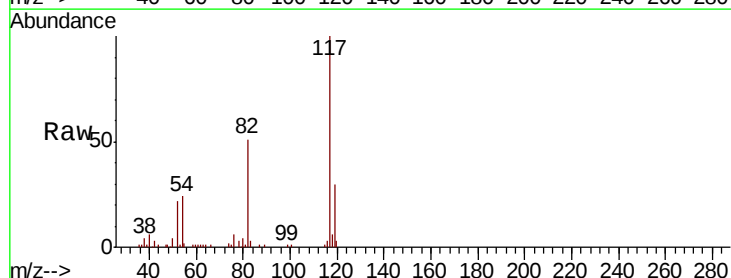
Tgt Ion: 117 Resp: 168802

Ion Ratio Lower Upper

117 100

82 50.6 42.0 63.0

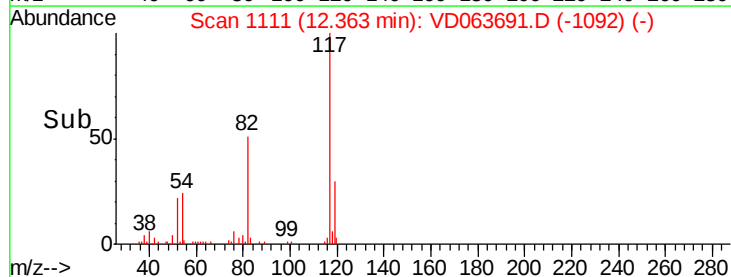
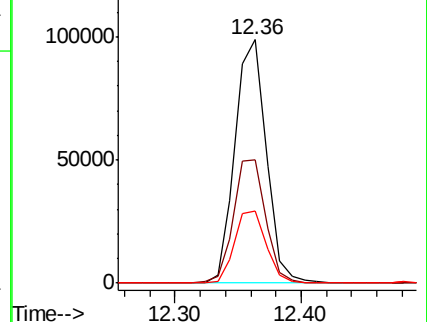
119 29.6 25.4 38.0

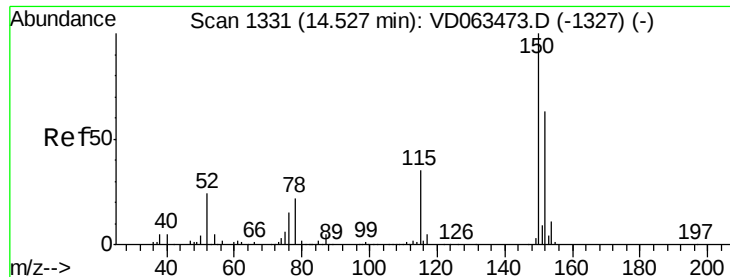


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.02 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

Instrument :

MSVOA_D

ClientSampleId :

T4-B4-(2)

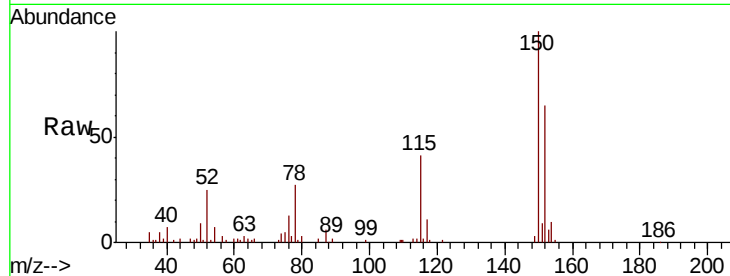
Tgt Ion:152 Resp: 52754

Ion Ratio Lower Upper

152 100

115 62.7 30.9 92.7

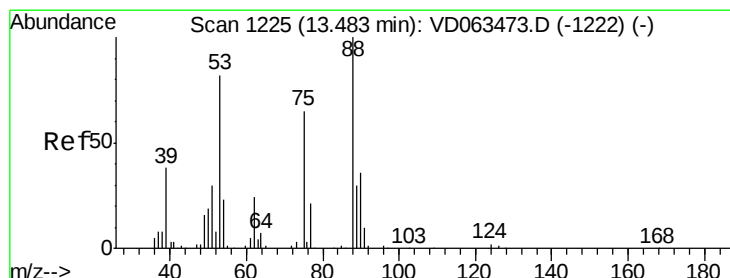
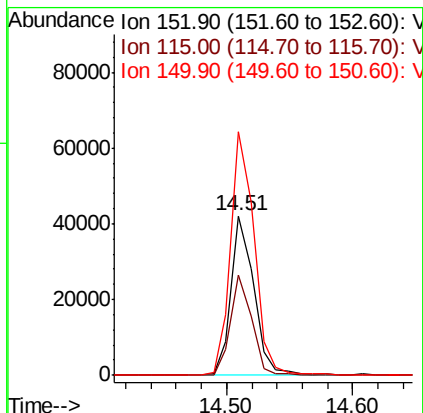
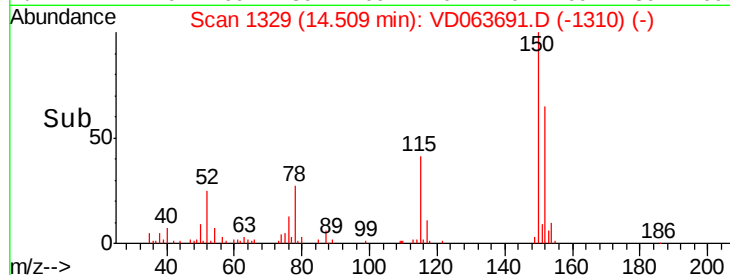
150 152.9 0.0 318.6



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: 143.259 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063691.D

Acq: 20 Aug 2019 18:13

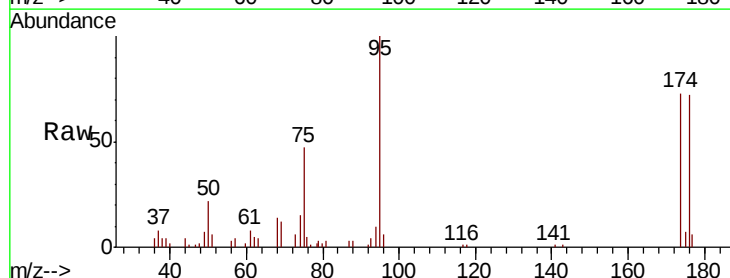
Tgt Ion: 75 Resp: 23312

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



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

