

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122319\
 Data File : VD064560.D
 Acq On : 23 Dec 2019 11:10
 Operator : VA/SY
 Sample : VD1223SBL01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBL01

Quant Time: Dec 24 05:51:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	567255	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	834591	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	855449	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	437513	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	236819	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	
35) Dibromofluoromethane	7.91	113	253452	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
50) Toluene-d8	10.34	98	1020217	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	12.64	95	379215	59.57	ug/l	0.00
Spiked Amount			Recovery	=	119.14%	

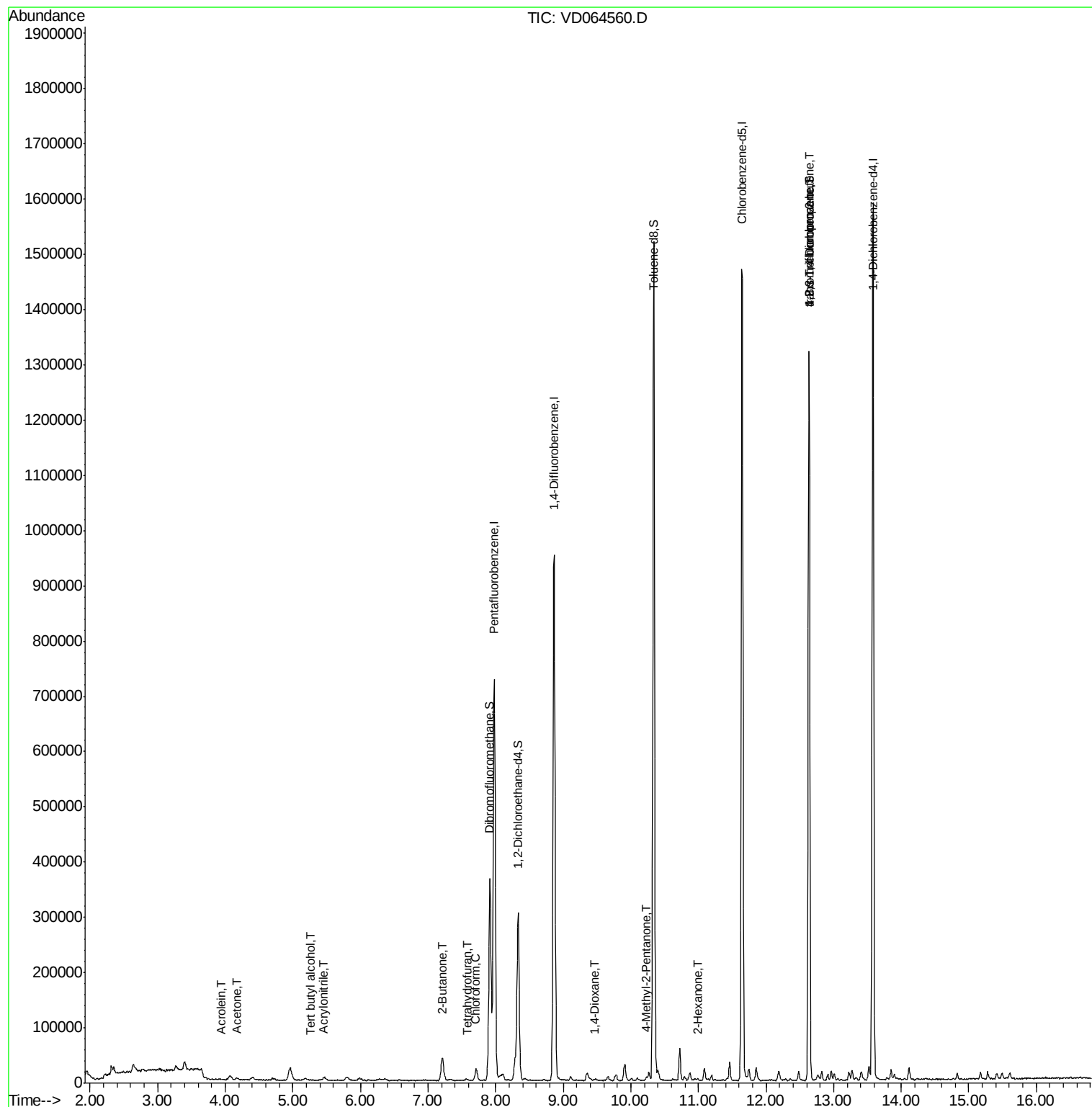
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.27	59	423	1.294	ug/l #	100
13) Acrolein	3.93	56	641	1.438	ug/l #	14
15) Acrylonitrile	5.45	53	1607	1.421	ug/l #	52
16) Acetone	4.17	43	6851	6.603	ug/l	97
20) Methylene Chloride	4.96	84	16724	Below Cal		86
25) 2-Butanone	7.22	43	4639	3.161	ug/l #	73
29) Tetrahydrofuran	7.59	42	1712	1.834	ug/l #	88
30) Chloroform	7.71	83	18888	1.925	ug/l	85
31) Cyclohexane	7.98	56	16124	Below Cal	#	45
49) 1,4-Dioxane	9.46	88	62	1.697	ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	3808	1.169	ug/l	96
59) 2-Hexanone	10.98	43	2783	1.231	ug/l	73
76) 1,2,3-Trichloropropane	12.64	75	202708	56.340	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	202708	122.850	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.51	75	519	Below Cal	#	33

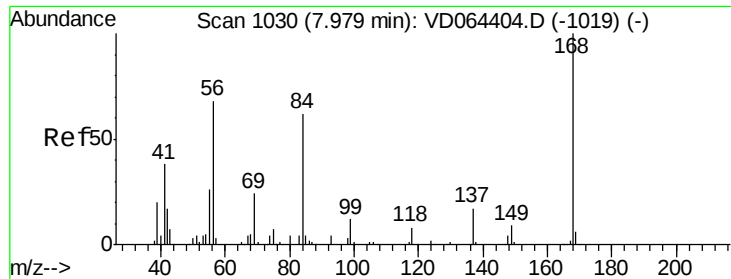
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 24 05:51:54 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampleId :

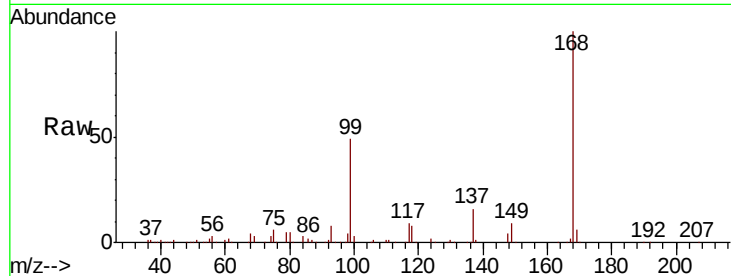
VD1223SBL01

Tot Ion:168 Resp: 567255

Ion Ratio Lower Upper

168 100

99 49.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

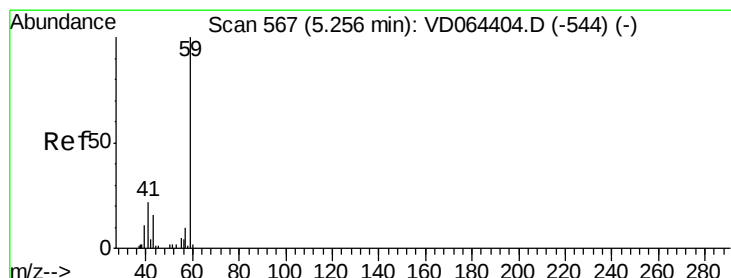
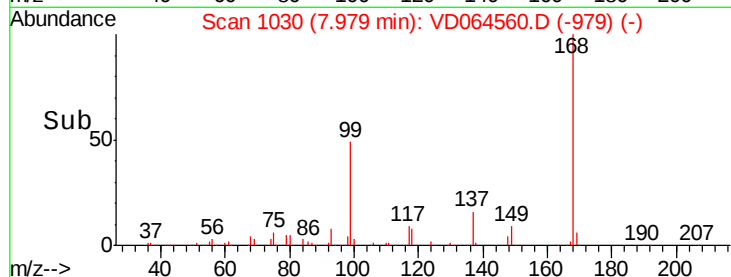
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.294 ug/l

RT: 5.27 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD064560.D

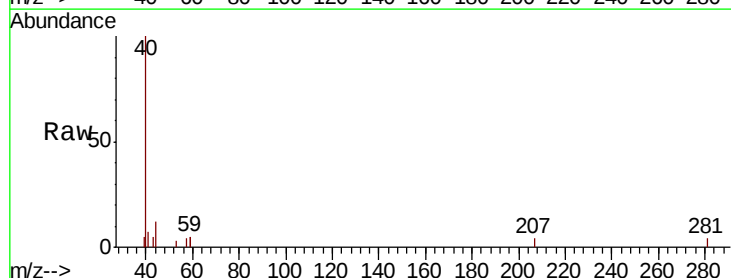
Acq: 23 Dec 2019 11:10

Tgt Ion: 59 Resp: 423

Ion Ratio Lower Upper

59 100

57 14.4 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.27

500

400

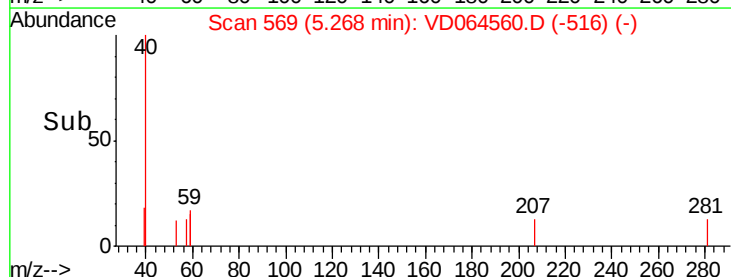
300

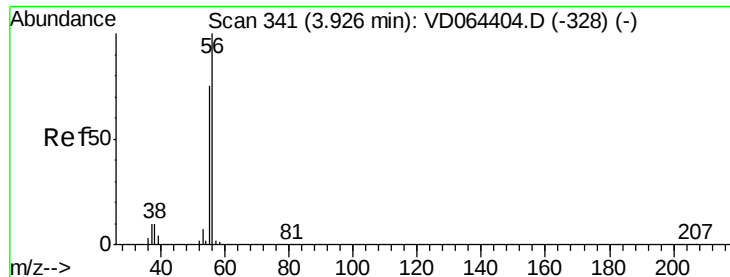
200

100

0

Time-->





#13

Acrolein

Concen: 1.438 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampleId :

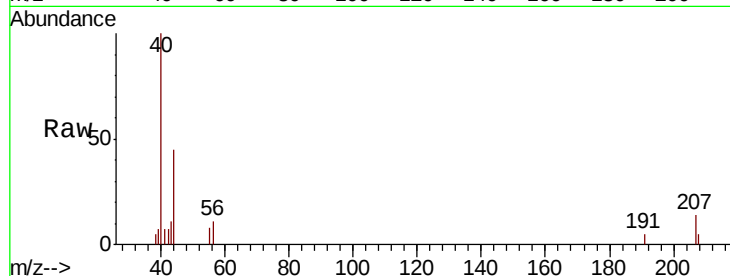
VD1223SBL01

Tot Ion: 56 Resp: 641

Ion Ratio Lower Upper

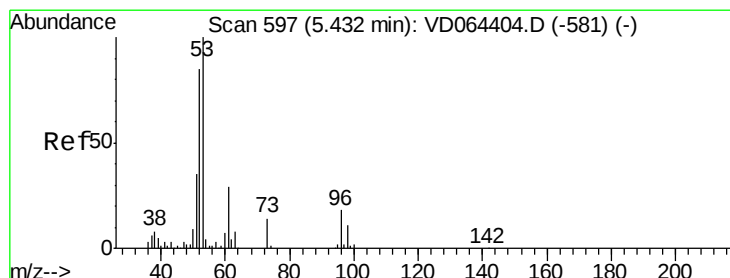
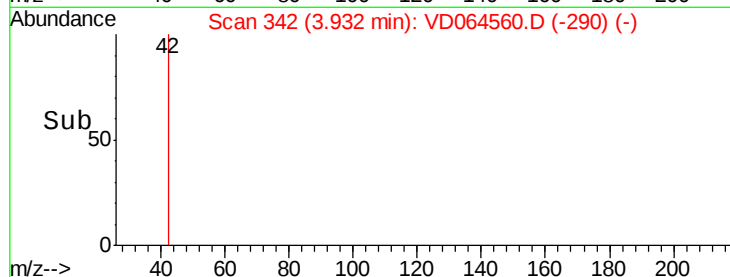
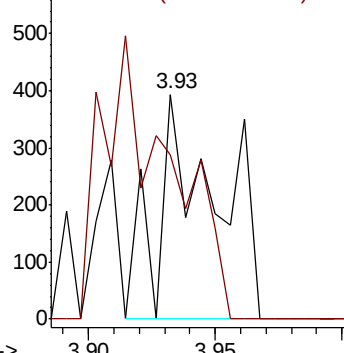
56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#15

Acrylonitrile

Concen: 1.421 ug/l

RT: 5.45 min Scan# 600

Delta R.T. 0.02 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

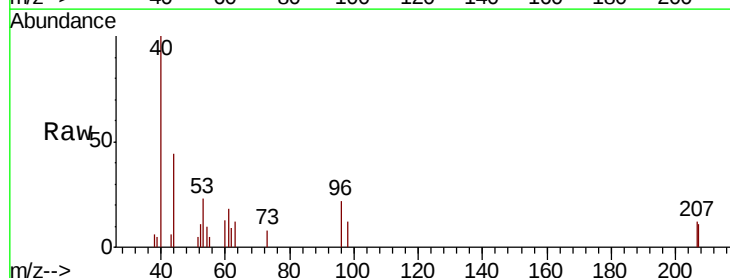
Tgt Ion: 53 Resp: 1607

Ion Ratio Lower Upper

53 100

52 39.1 67.9 101.9#

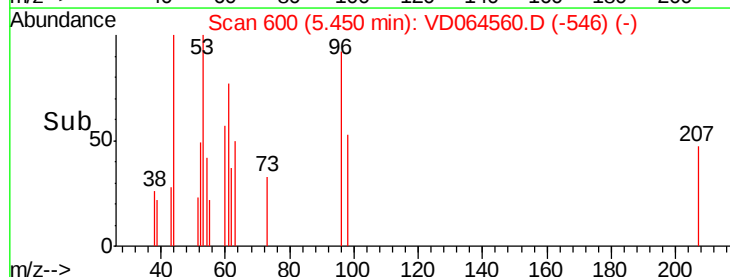
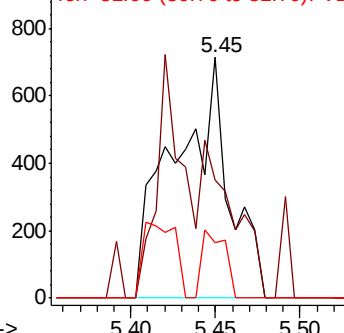
51 11.9 30.6 45.8#

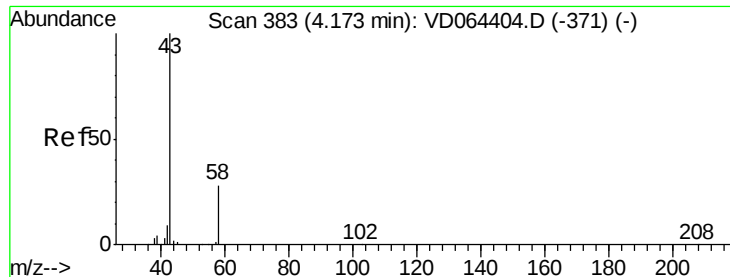


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 6.603 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampled :

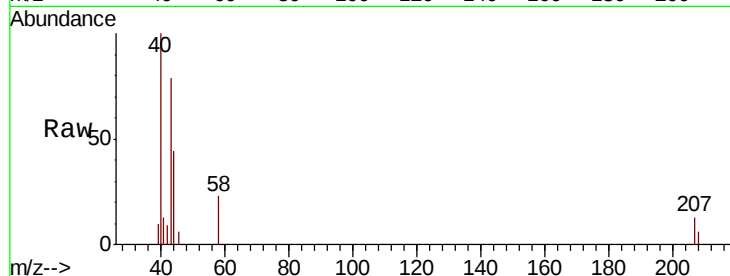
VD1223SBL01

Tot Ion: 43 Resp: 6851

Ion Ratio Lower Upper

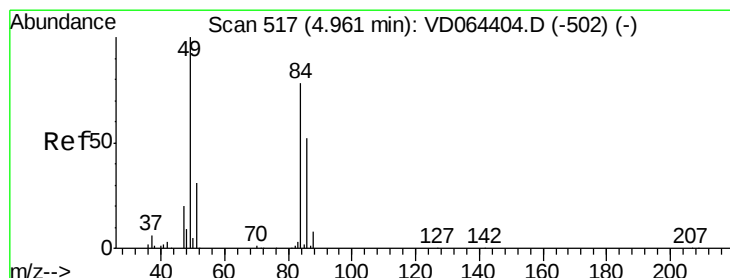
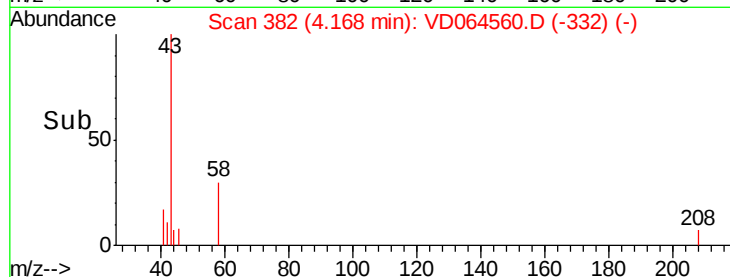
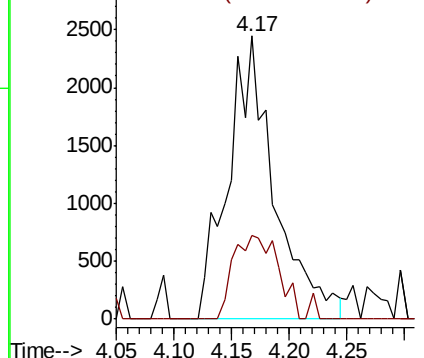
43 100

58 29.6 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Tgt Ion: 84 Resp: 16724

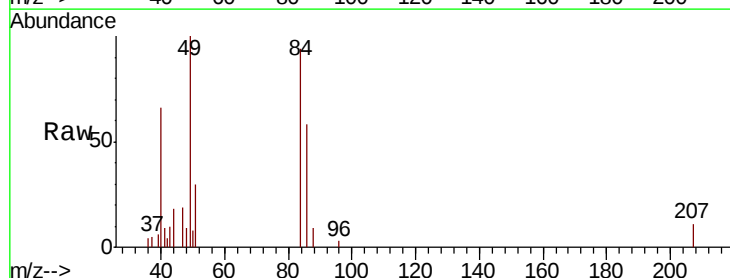
Ion Ratio Lower Upper

84 100

49 106.2 102.6 153.8

51 32.0 32.0 48.0

86 61.5 53.4 80.0

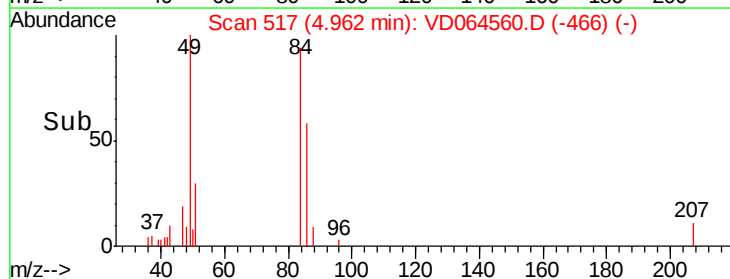
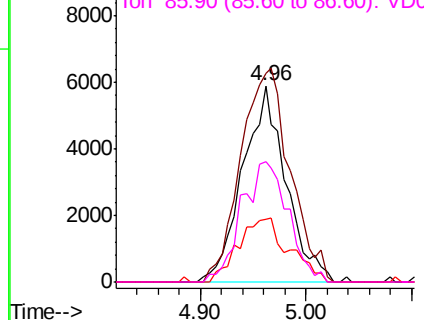


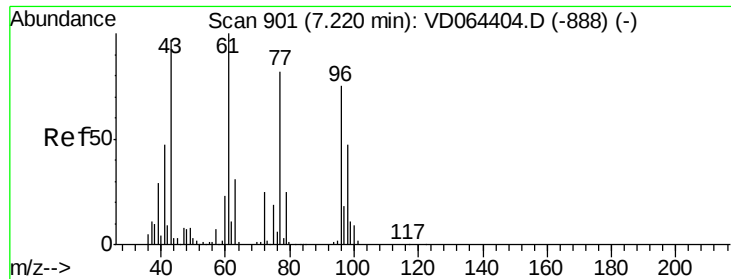
Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 3.161 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampleId :

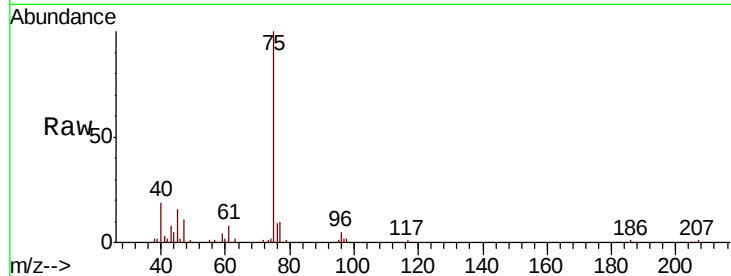
VD1223SBL01

Tot Ion: 43 Resp: 4639

Ion Ratio Lower Upper

43 100

72 12.6 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.22

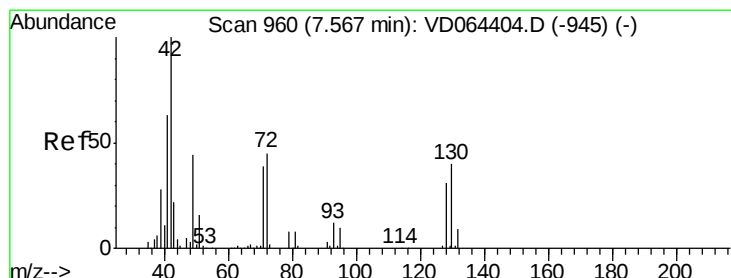
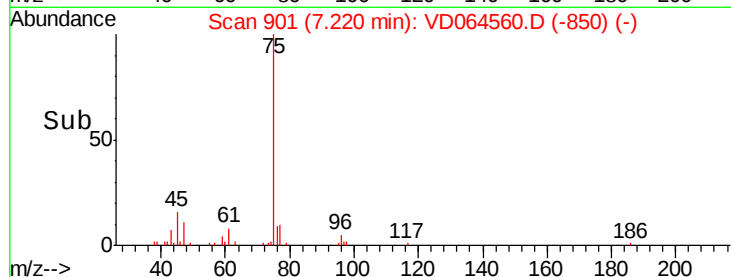
1500

1000

500

0

Time--> 7.15 7.20 7.25 7.30



#29

Tetrahydrofuran

Concen: 1.834 ug/l

RT: 7.59 min Scan# 963

Delta R.T. 0.02 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

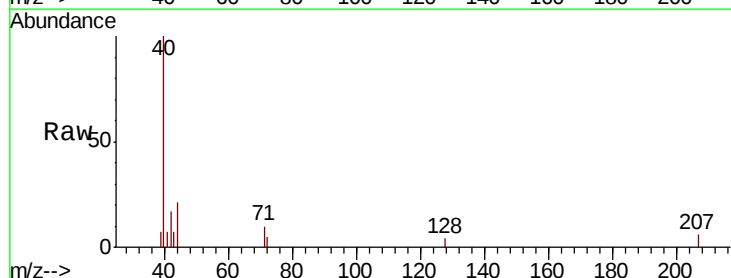
Tgt Ion: 42 Resp: 1712

Ion Ratio Lower Upper

42 100

72 32.8 35.8 53.8#

71 38.3 32.7 49.1



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

800

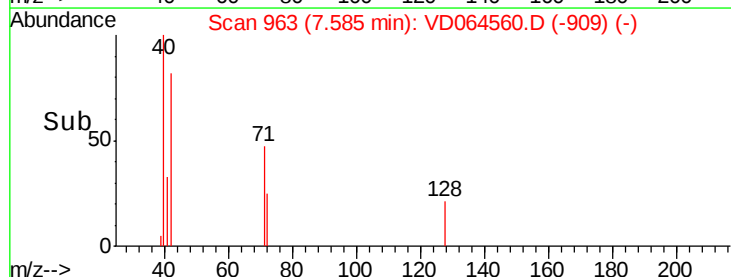
600

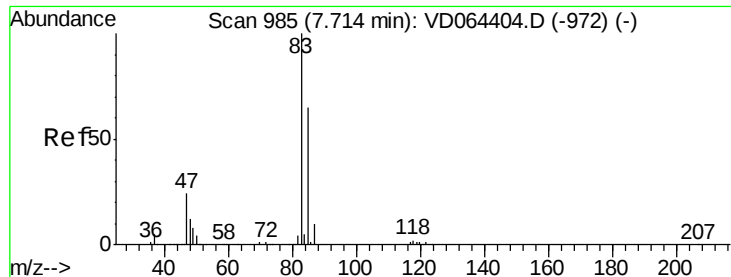
400

200

0

Time--> 7.50 7.55 7.60 7.65

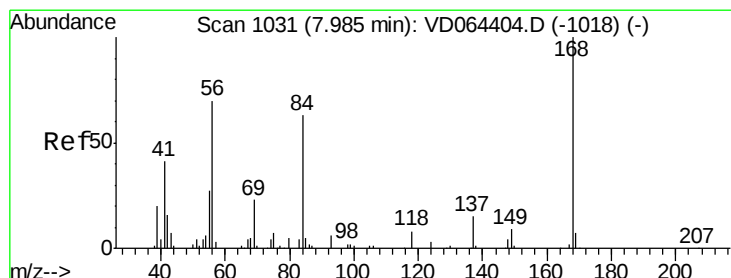
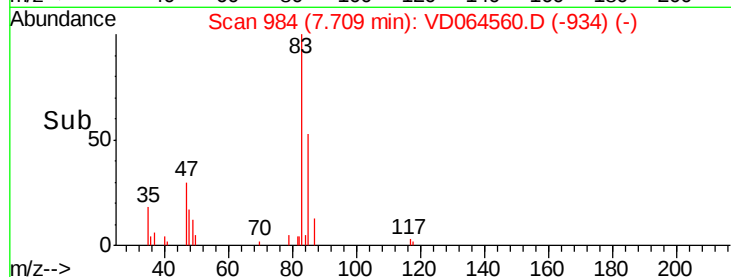
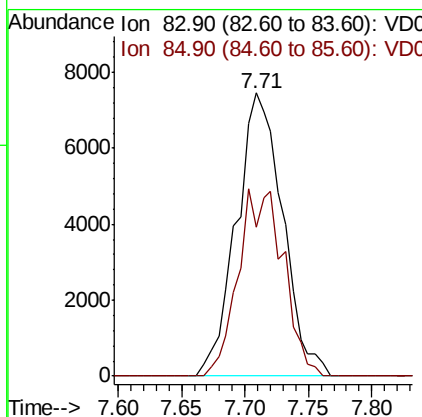
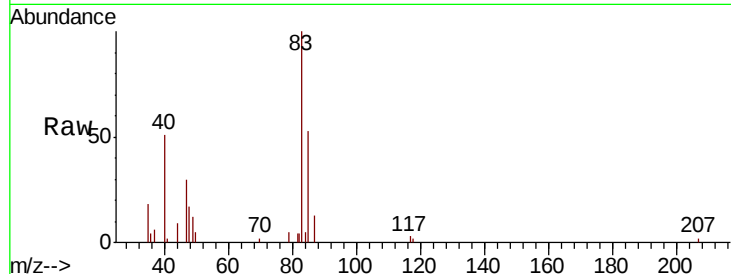




#30
Chloroform
Concen: 1.925 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD064560.D
Acq: 23 Dec 2019 11:10

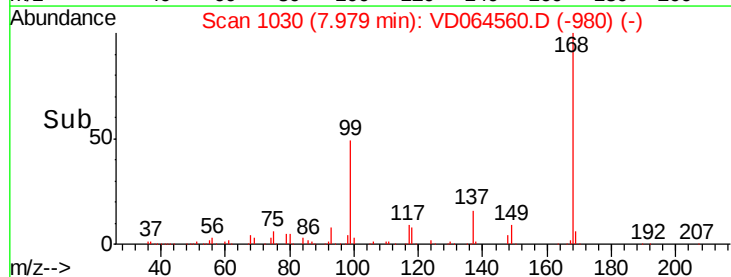
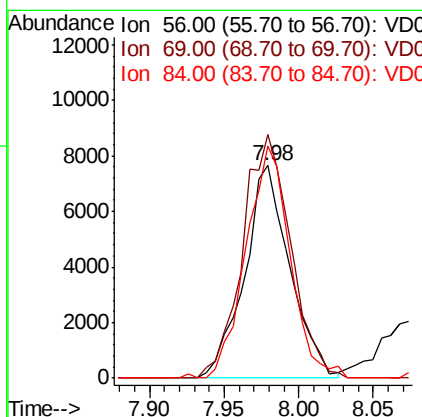
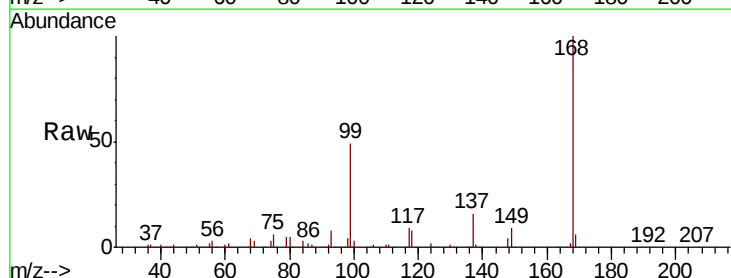
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBL01

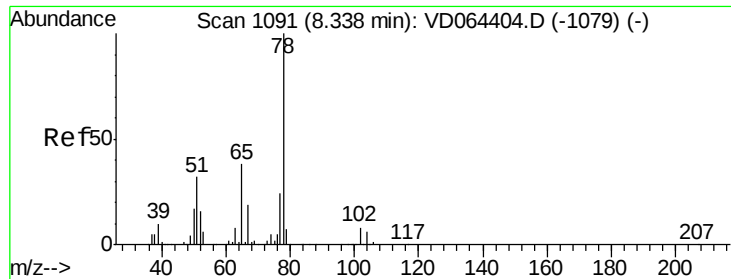
Tot Ion: 83 Resp: 18888
Ion Ratio Lower Upper
83 100
85 52.5 51.8 77.6



#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD064560.D
Acq: 23 Dec 2019 11:10

Tgt Ion: 56 Resp: 16124
Ion Ratio Lower Upper
56 100
69 114.7 26.2 39.4#
84 107.4 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 46.123 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampleId :

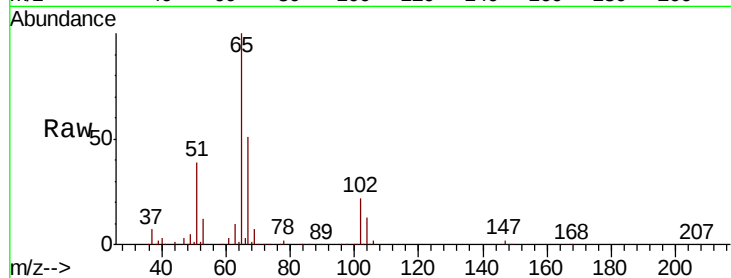
VD1223SBL01

Tot Ion: 65 Resp: 236819

Ion Ratio Lower Upper

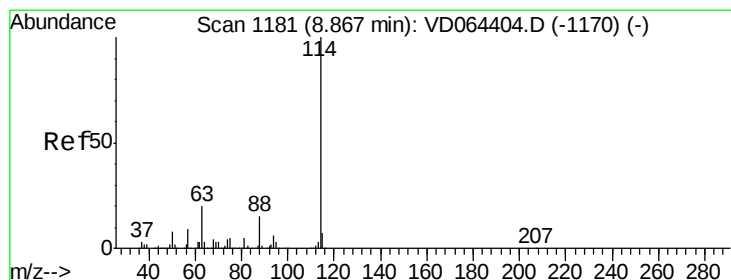
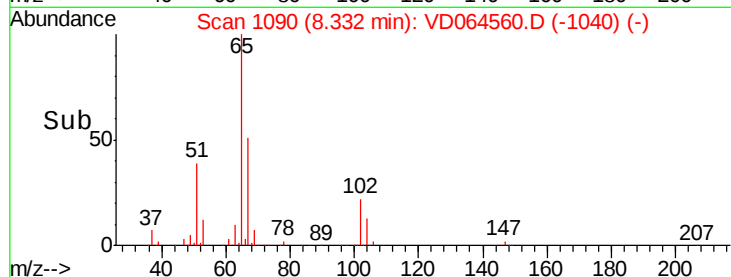
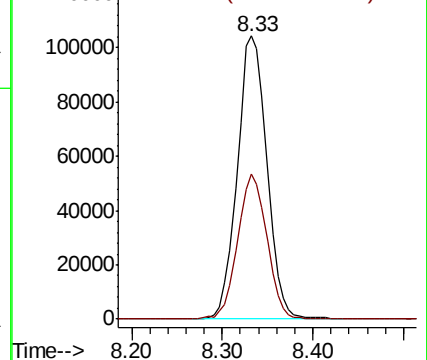
65 100

67 50.6 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

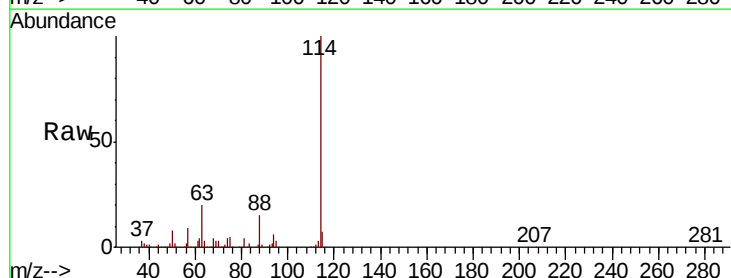
Tgt Ion: 114 Resp: 834591

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

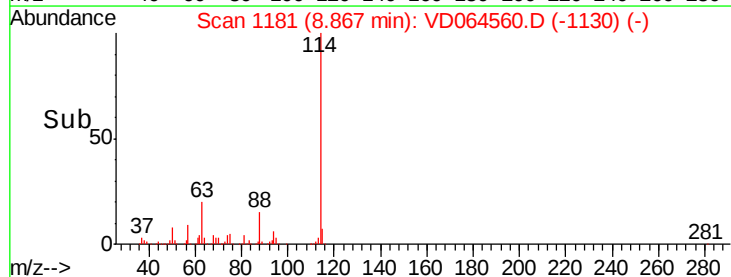
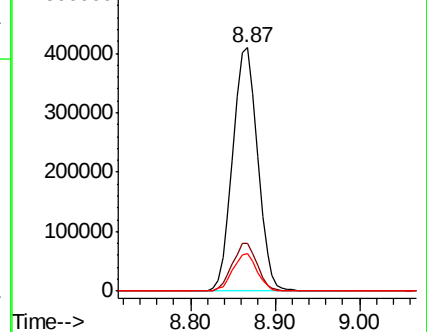
88 15.4 0.0 29.2

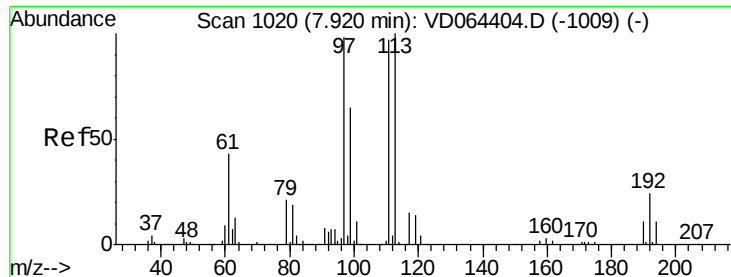


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 48.200 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBL01

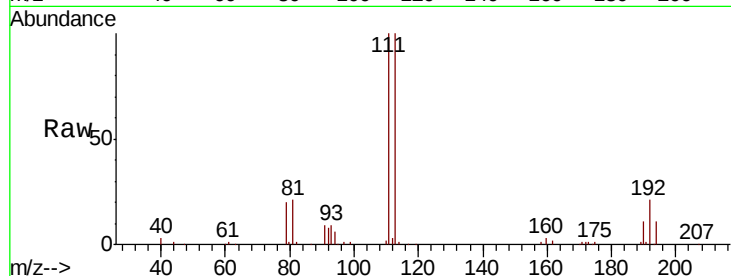
Tot Ion:113 Resp: 253452

Ion Ratio Lower Upper

113 100

111 101.8 79.4 119.2

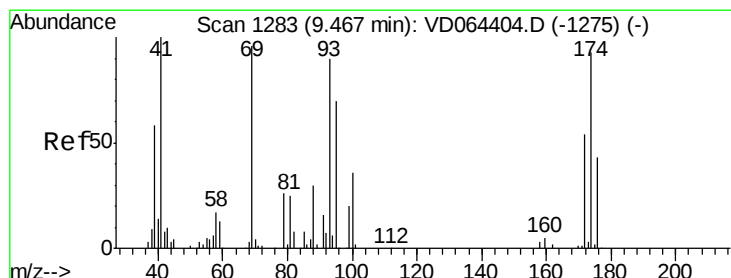
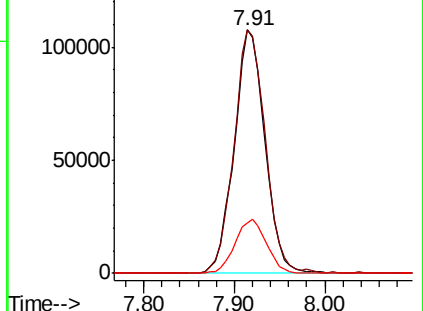
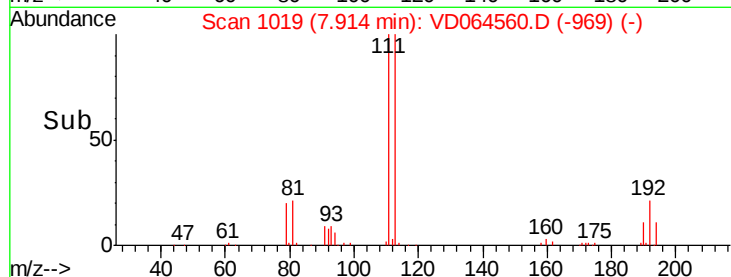
192 22.8 18.6 28.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#49

1,4-Dioxane

Concen: 1.697 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

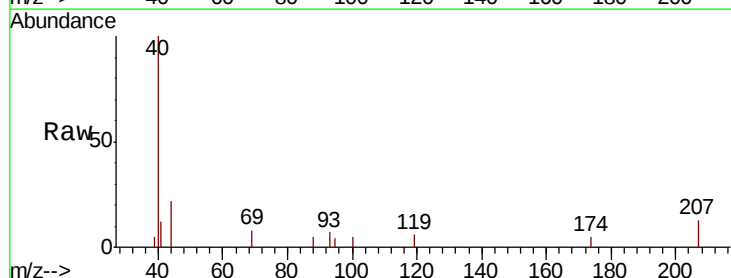
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 840.3 26.7 40.1#

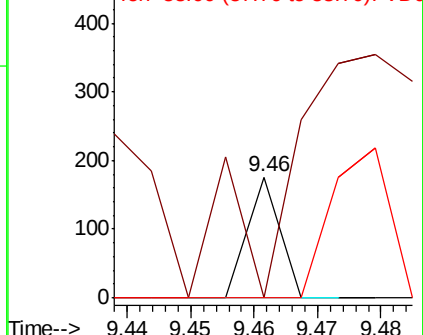
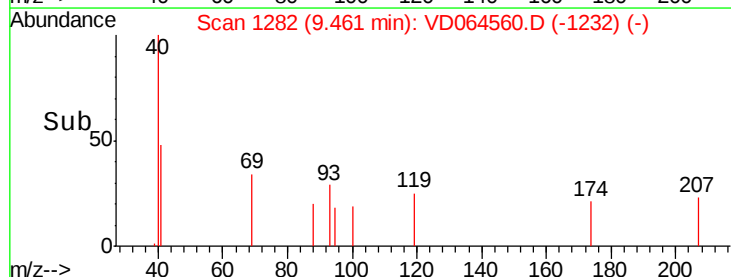
58 224.2 52.3 78.5#

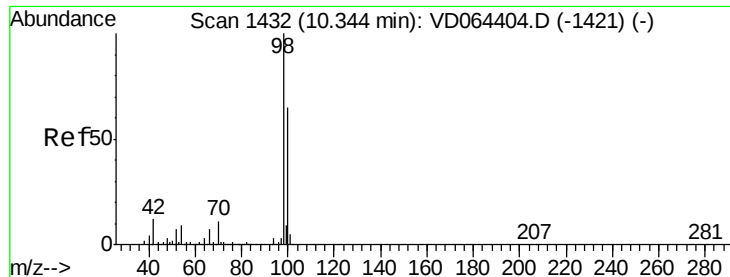


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 51.506 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampleId :

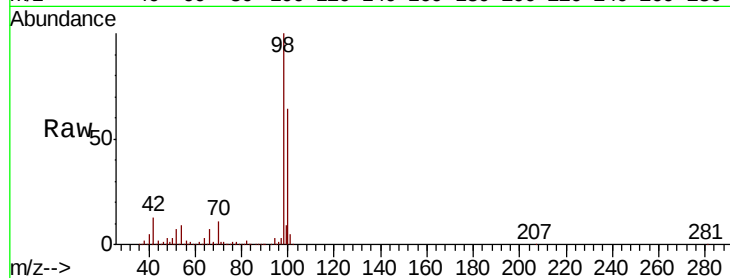
VD1223SBL01

Tot Ion: 98 Resp: 1020217

Ion Ratio Lower Upper

98 100

100 64.3 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

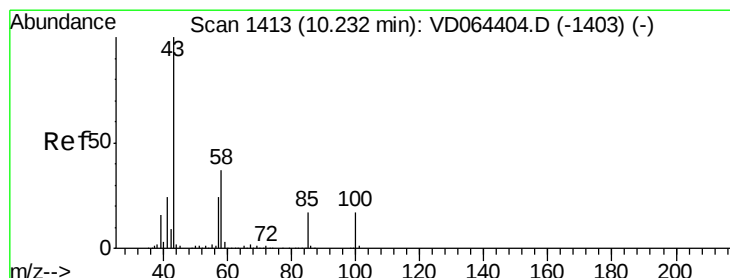
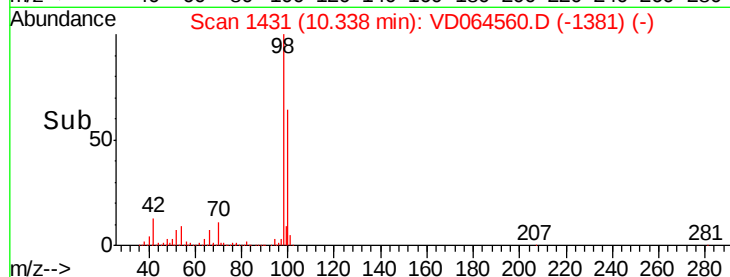
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.169 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD064560.D

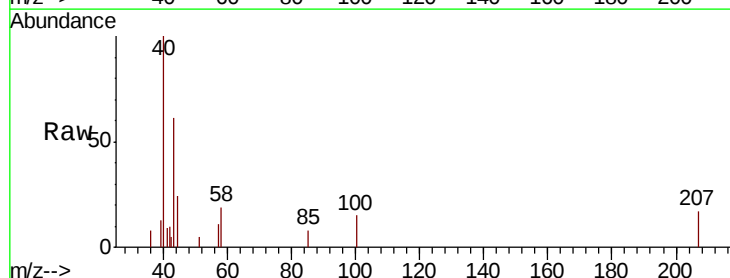
Acq: 23 Dec 2019 11:10

Tgt Ion: 43 Resp: 3808

Ion Ratio Lower Upper

43 100

58 40.8 30.6 46.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

2000

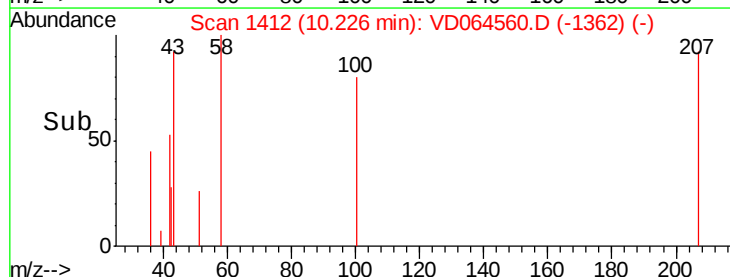
1500

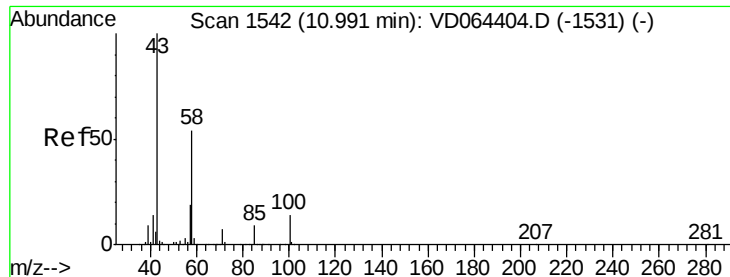
1000

500

0

Time-->

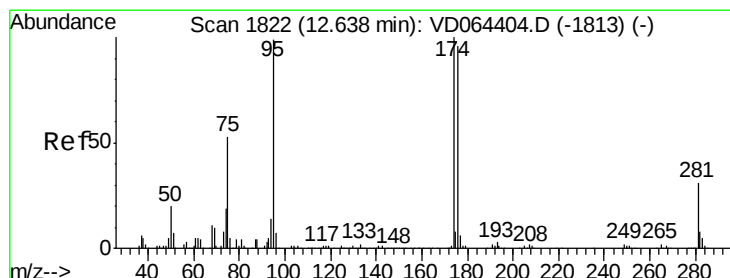
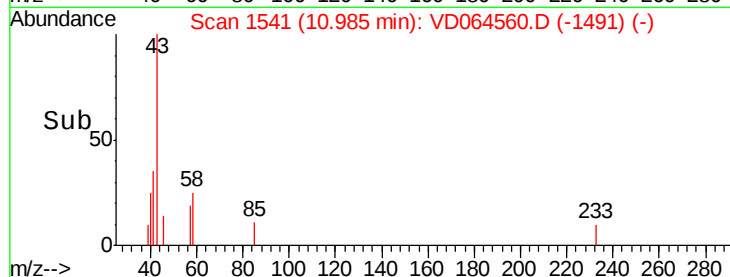
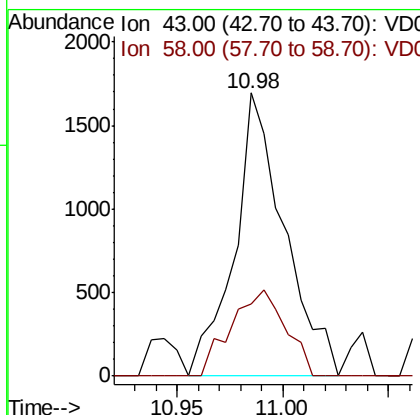
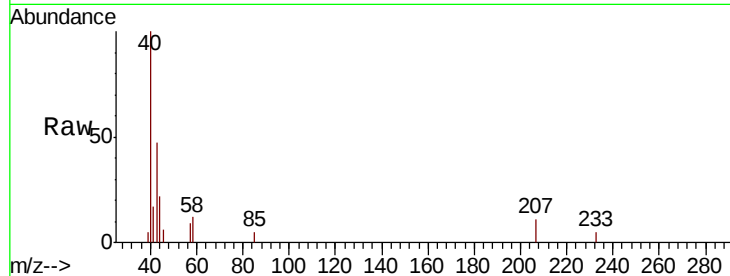




#59
2-Hexanone
Concen: 1.231 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD064560.D
Acq: 23 Dec 2019 11:10

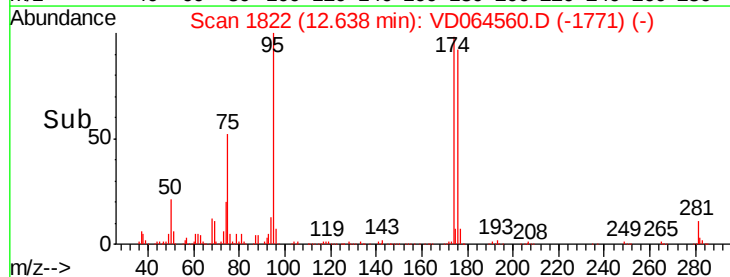
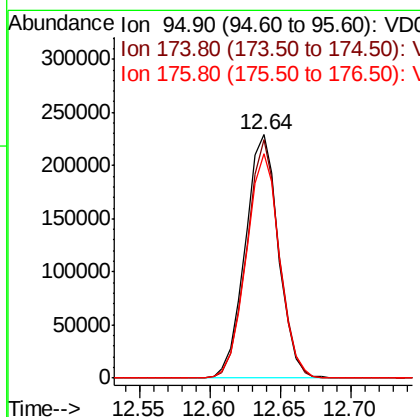
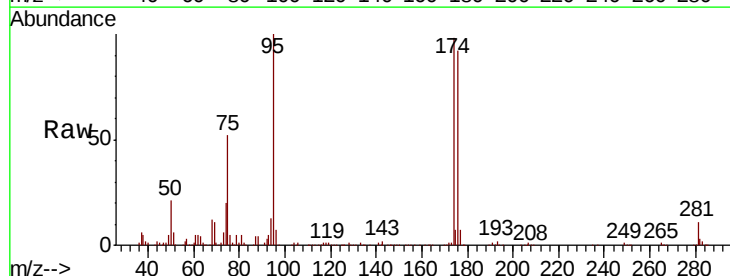
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBL01

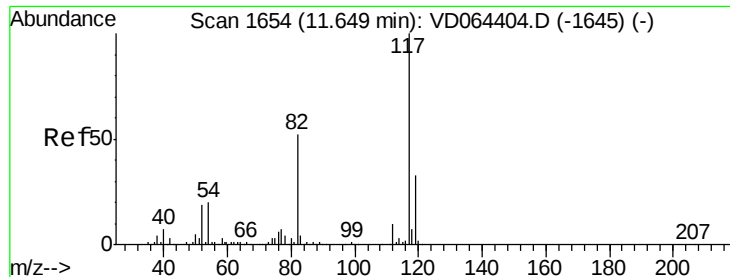
Tot Ion: 43 Resp: 2783
Ion Ratio Lower Upper
43 100
58 33.3 26.3 78.8



#62
4-Bromofluorobenzene
Concen: 59.572 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064560.D
Acq: 23 Dec 2019 11:10

Tgt Ion: 95 Resp: 379215
Ion Ratio Lower Upper
95 100
174 95.4 0.0 197.2
176 92.2 0.0 189.6

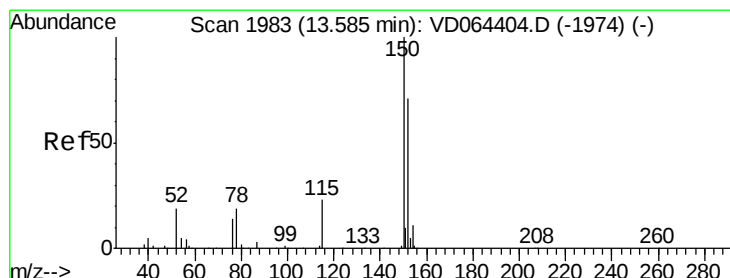
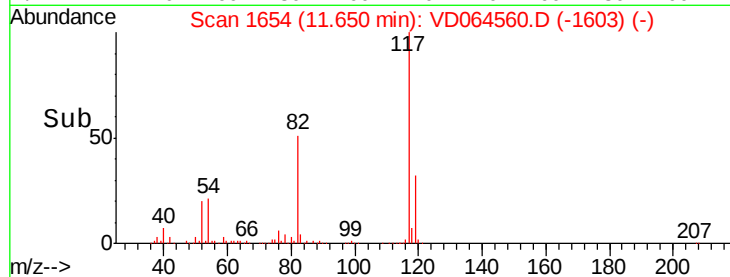
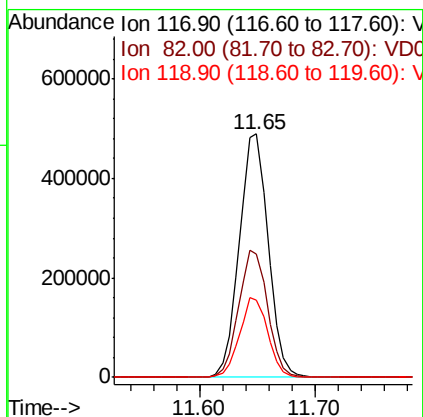
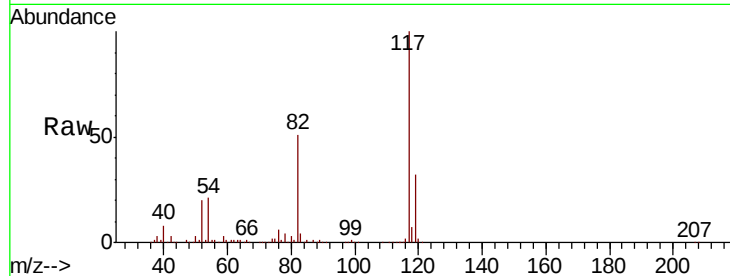




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064560.D
Acq: 23 Dec 2019 11:10

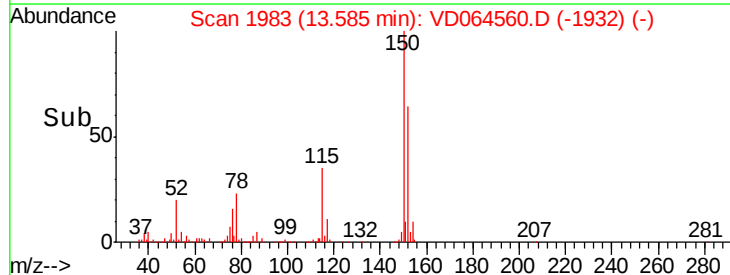
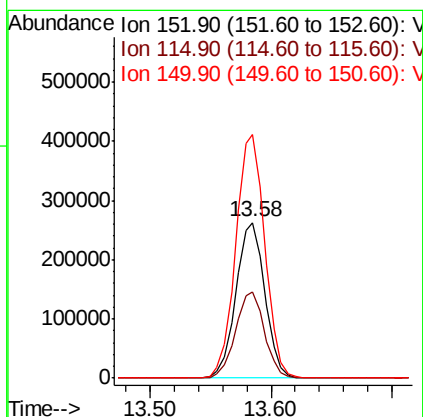
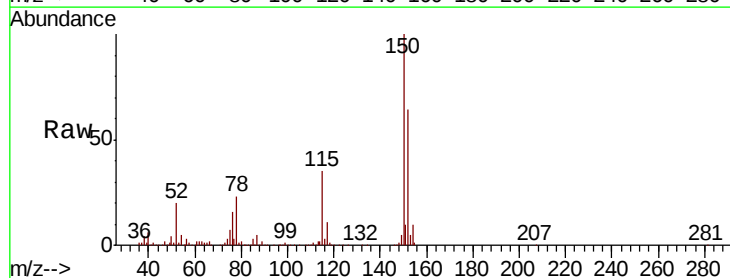
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBL01

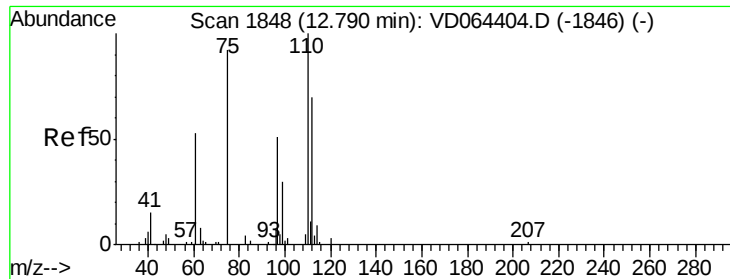
Tot Ion:117 Resp: 855449
Ion Ratio Lower Upper
117 100
82 50.8 41.4 62.2
119 31.7 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064560.D
Acq: 23 Dec 2019 11:10

Tgt Ion:152 Resp: 437513
Ion Ratio Lower Upper
152 100
115 55.3 26.7 80.1
150 157.3 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 56.340 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampleId :

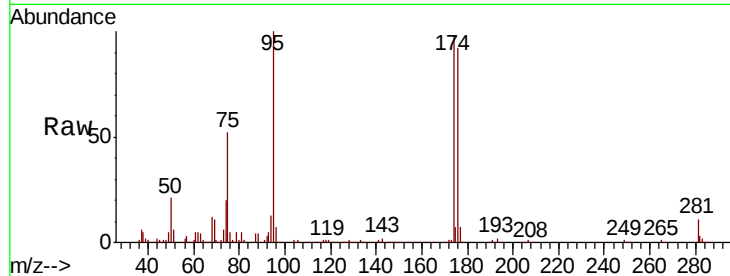
VD1223SBL01

Tot Ion: 75 Resp: 202708

Ion Ratio Lower Upper

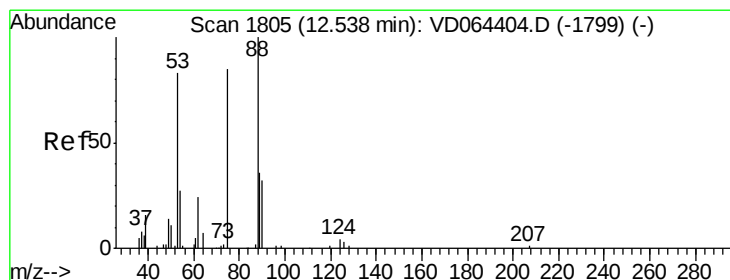
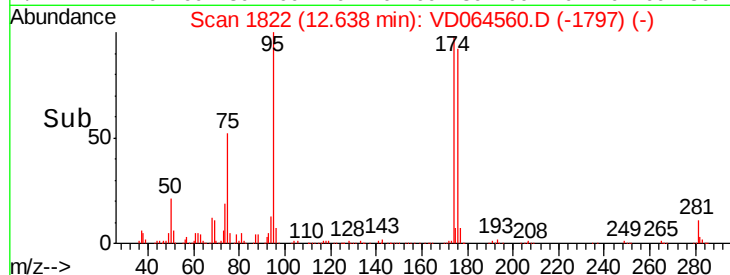
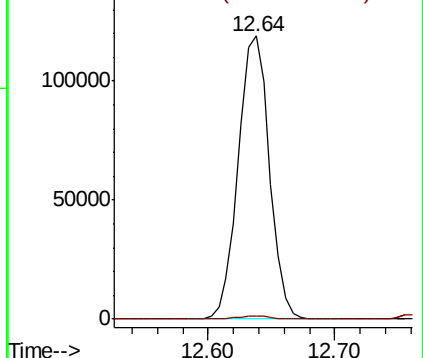
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 122.850 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

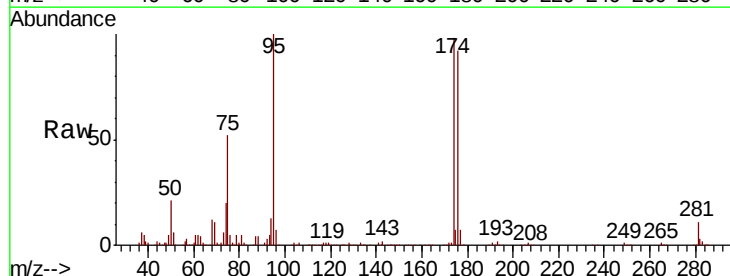
Tgt Ion: 75 Resp: 202708

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

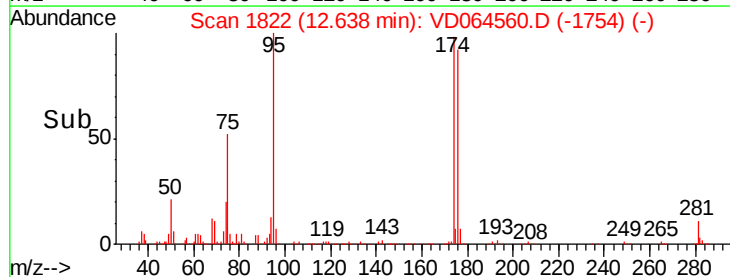
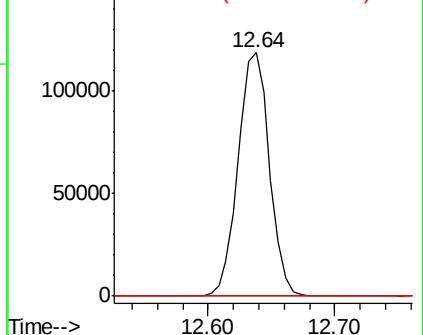
89 0.1 38.5 57.7#

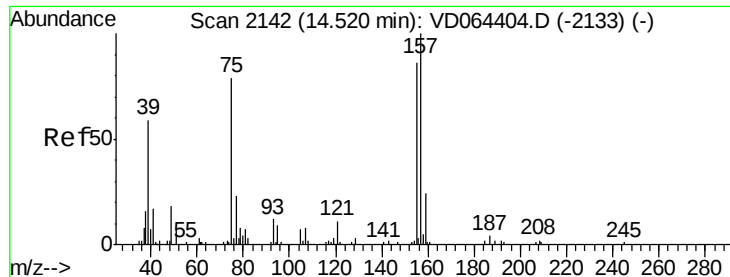


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.51 min Scan# 2141

Delta R.T. -0.00 min

Lab File: VD064560.D

Acq: 23 Dec 2019 11:10

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBL01

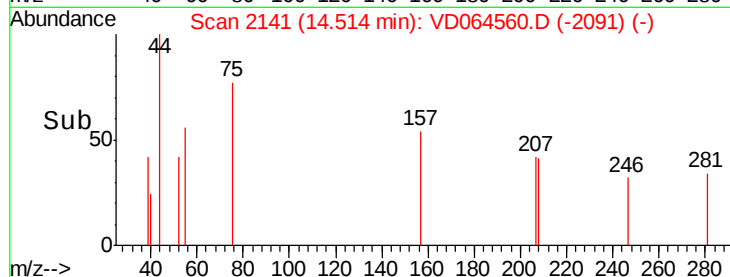
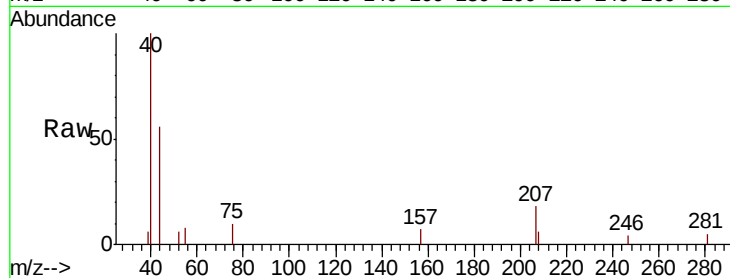
Tot Ion: 75 Resp: 519

Ion Ratio Lower Upper

75 100

155 10.6 51.9 155.7#

157 73.2 63.2 189.8



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

