

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101419\
 Data File : VD063954.D
 Acq On : 14 Oct 2019 14:29
 Operator : VA/SY
 Sample : K5339-01
 Misc : 6.43G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 14 17:07:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	177451	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	299475	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	287305	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	138856	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	88929	51.47	ug/l	0.00
Spiked Amount						
			Recovery	=	102.94%	
35) Dibromofluoromethane	7.92	113	92349	50.46	ug/l	0.00
Spiked Amount						
			Recovery	=	100.92%	
50) Toluene-d8	10.34	98	384217	51.72	ug/l	0.00
Spiked Amount						
			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	12.63	95	115619	44.79	ug/l	0.00
Spiked Amount						
			Recovery	=	89.58%	

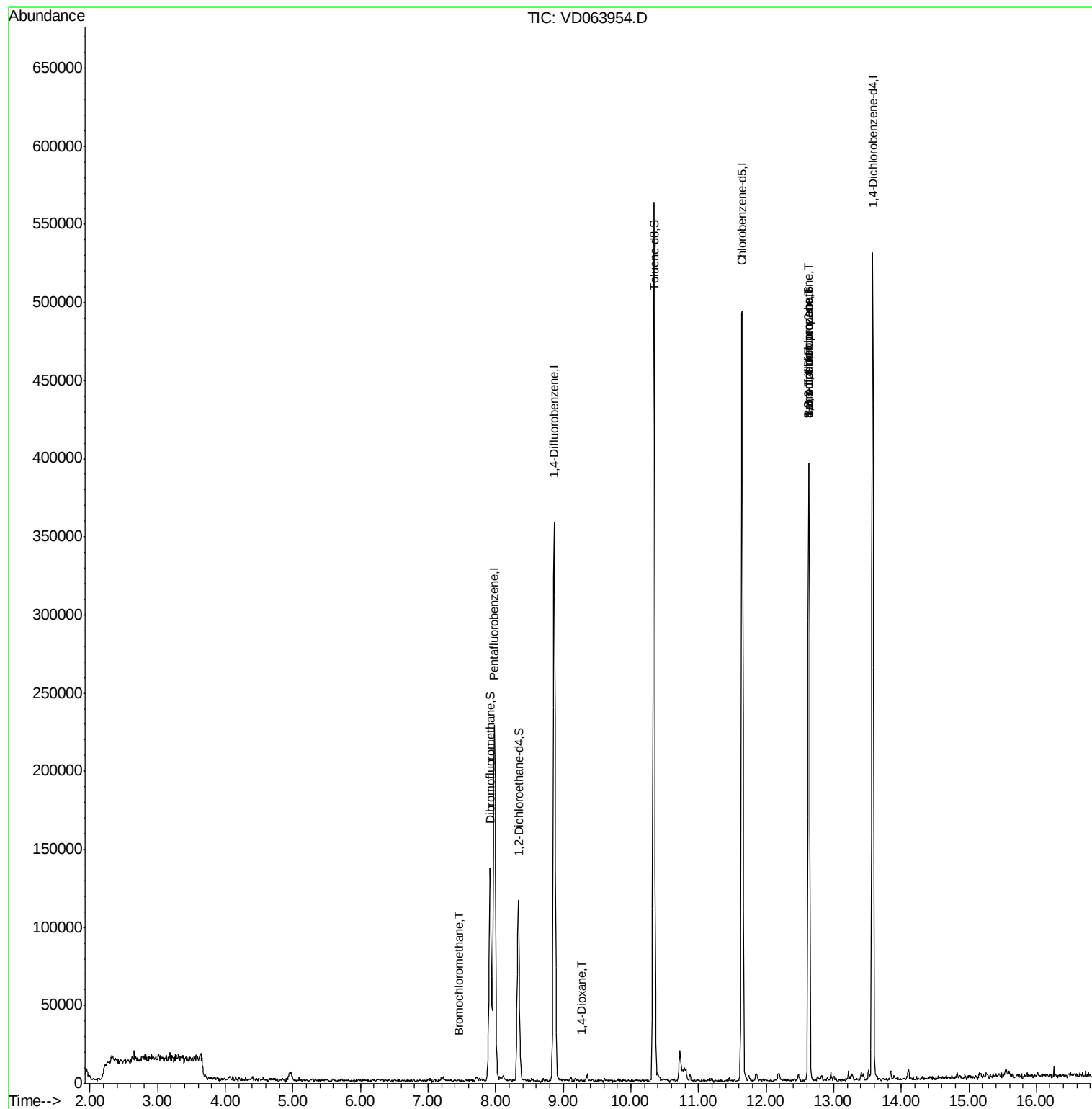
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	1389	Below Cal		91
11) Tert butyl alcohol	5.33	59	122	Below Cal	#	1
20) Methylene Chloride	4.96	84	2567	Below Cal	#	77
28) Bromochloromethane	7.46	49	93	1.940	ug/l #	10
31) Cyclohexane	7.98	56	4881	Below Cal	#	52
37) Ethyl Acetate	7.31	43	192	Below Cal	#	68
49) 1,4-Dioxane	9.27	88	145	9.712	ug/l #	43
71) Bromoform	12.63	173	1581	1.386	ug/l #	28
76) 1,2,3-Trichloropropane	12.63	75	62189	66.869	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	62189	118.330	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.52	75	59	Below Cal	#	1

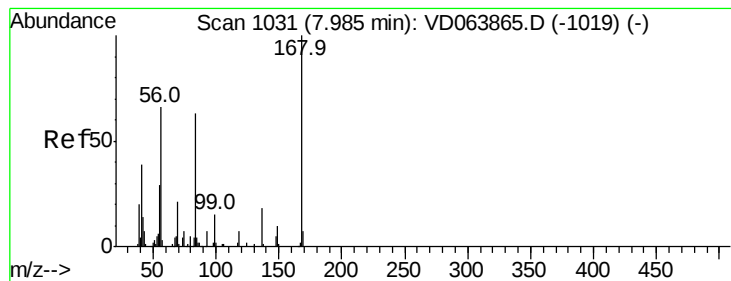
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 05 03:51:17 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

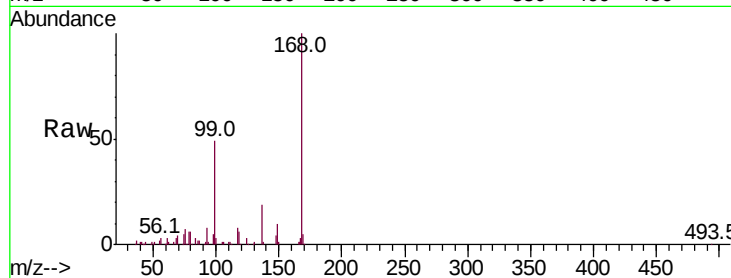
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 177451

Ion Ratio Lower Upper

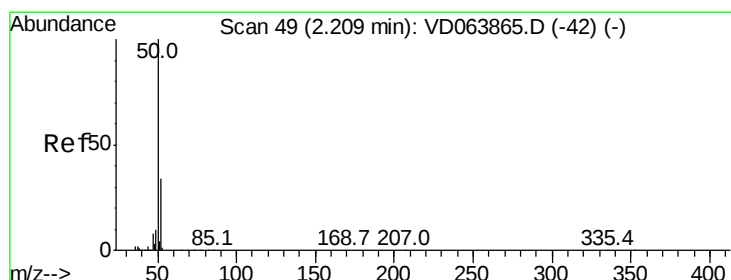
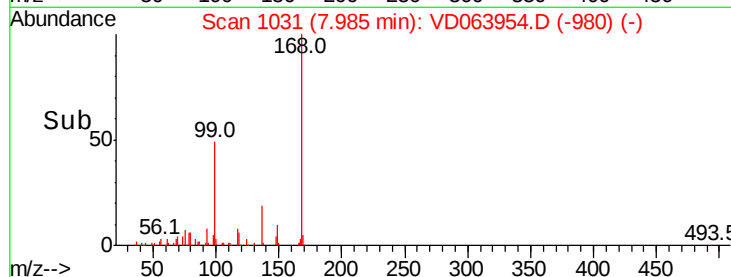
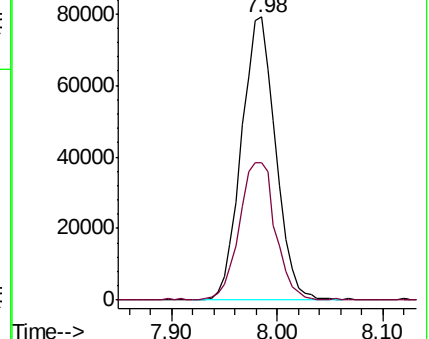
168 100

99 48.3 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD063954.D

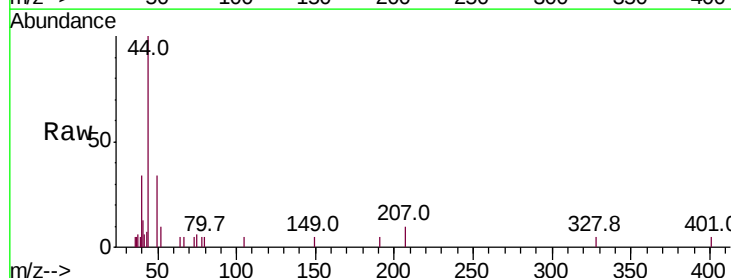
Acq: 14 Oct 2019 14:29

Tgt Ion: 50 Resp: 1389

Ion Ratio Lower Upper

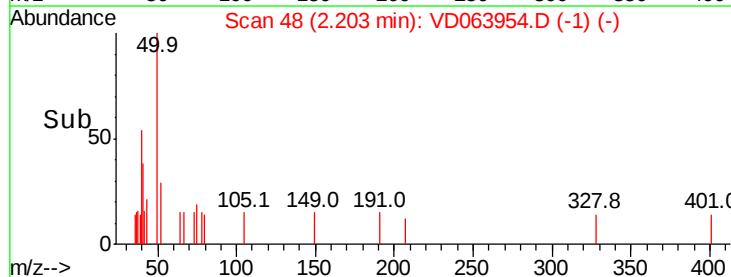
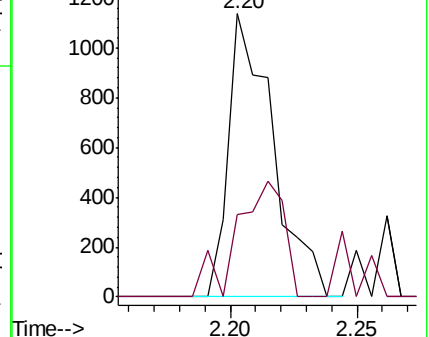
50 100

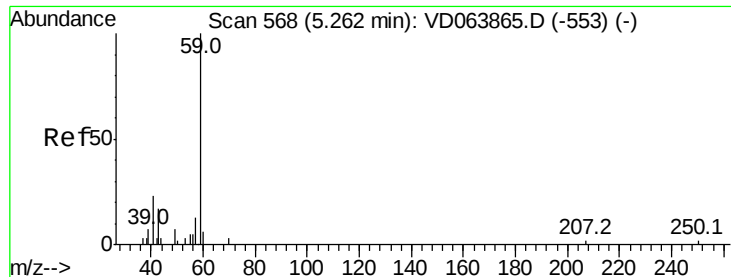
52 28.9 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



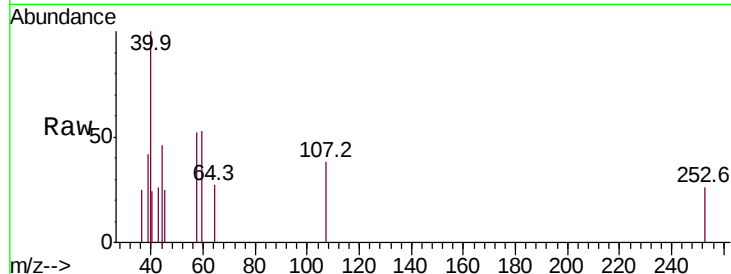


#11

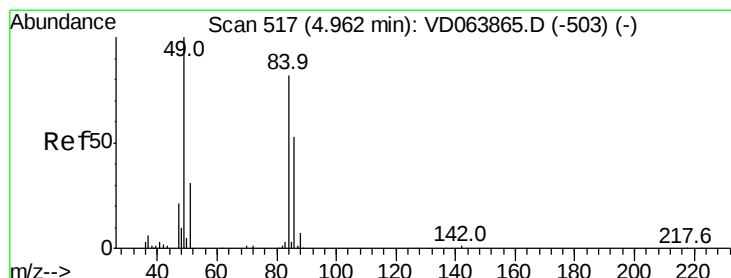
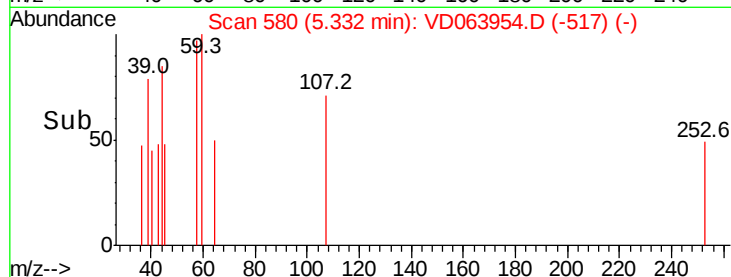
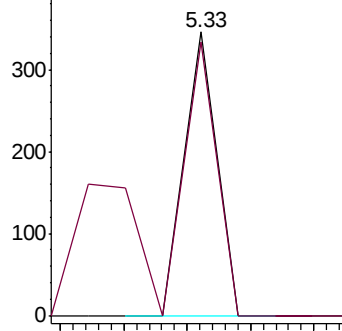
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.33 min Scan# 580
 Delta R.T. 0.07 min
 Lab File: VD063954.D
 Acq: 14 Oct 2019 14:29

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 122
 Ion Ratio Lower Upper
 59 100
 57 96.7 8.8 13.2#



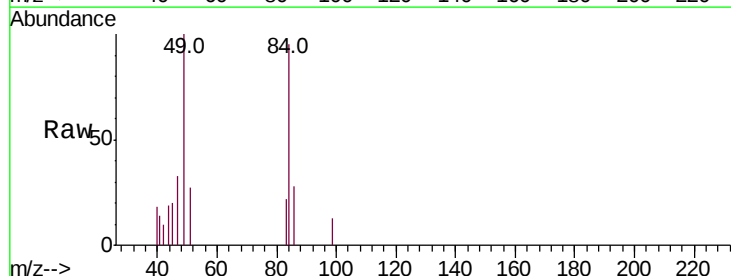
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



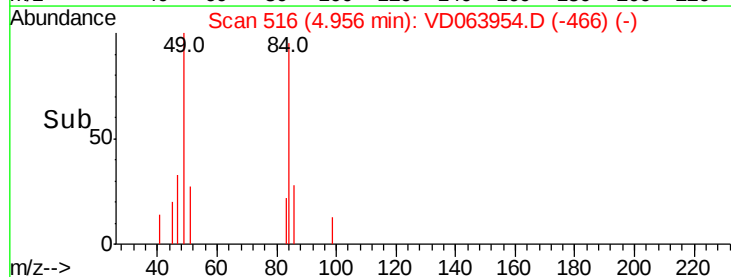
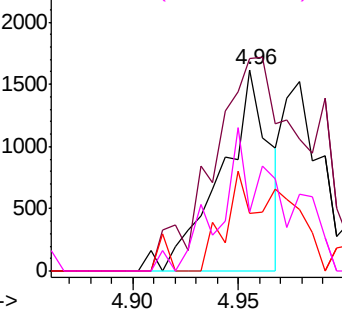
#20

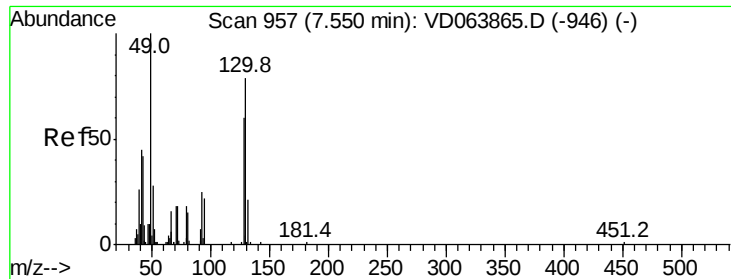
Methylene Chloride
 Concen: Below Cal
 RT: 4.96 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VD063954.D
 Acq: 14 Oct 2019 14:29

Tgt Ion: 84 Resp: 2567
 Ion Ratio Lower Upper
 84 100
 49 105.3 97.3 145.9
 51 28.7 30.1 45.1#
 86 29.0 51.4 77.2#



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





#28

Bromochloromethane

Concen: 1.940 ug/l

RT: 7.46 min Scan# 941

Delta R.T. -0.09 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

Instrument :
MSVOA_D
ClientSampled :

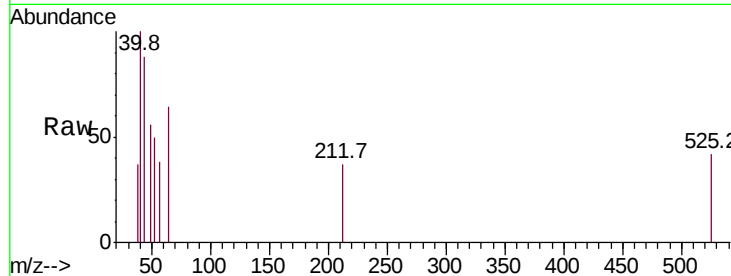
Tot Ion: 49 Resp: 93

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

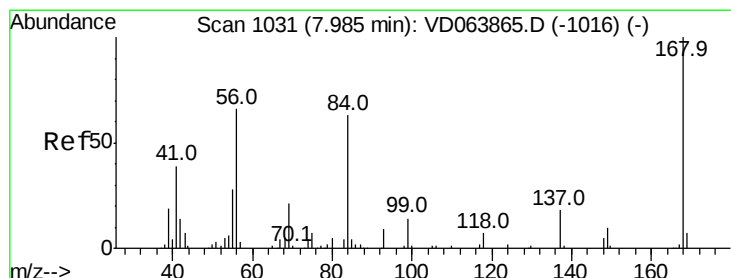
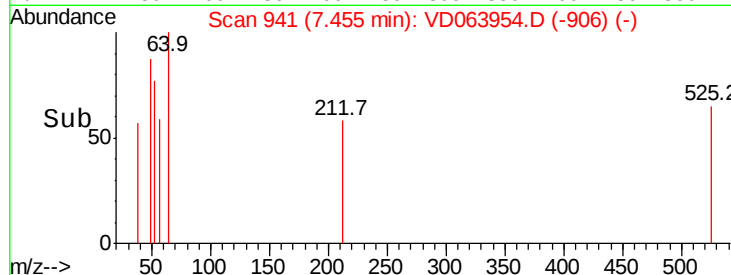
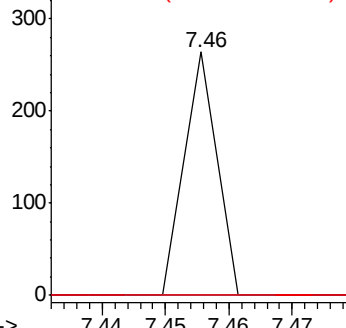
130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

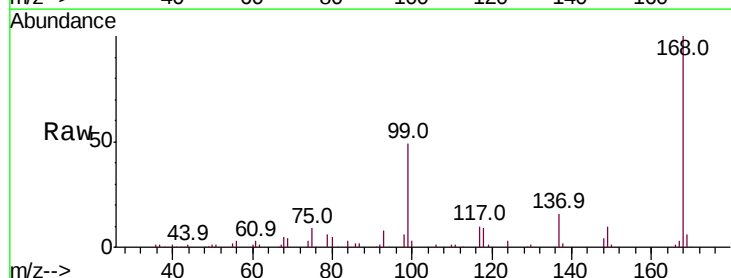
Tgt Ion: 56 Resp: 4881

Ion Ratio Lower Upper

56 100

69 130.4 25.0 37.4#

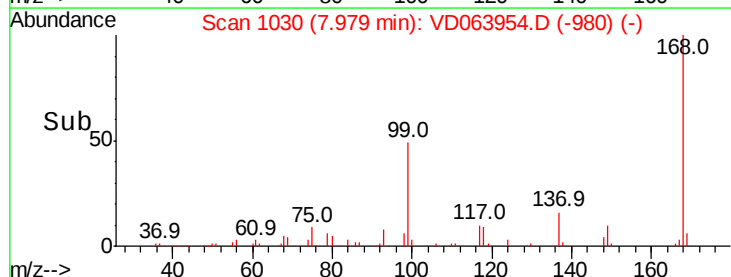
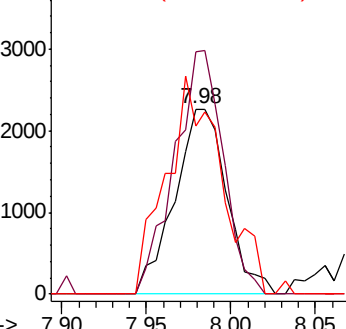
84 90.5 76.3 114.5

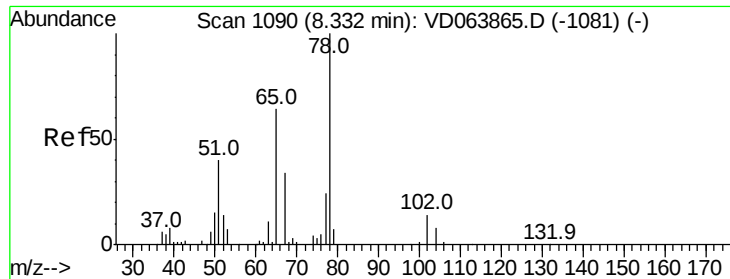


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 51.475 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

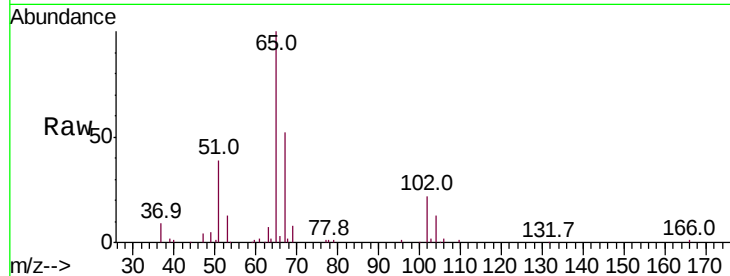
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 88929

Ion Ratio Lower Upper

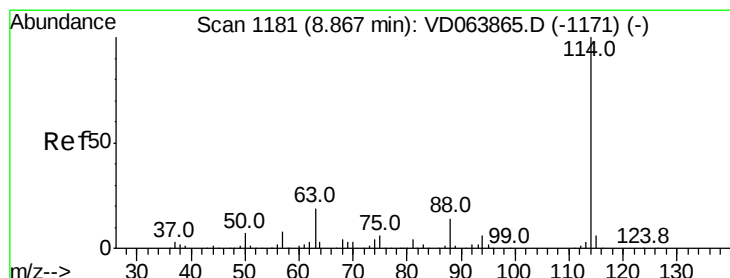
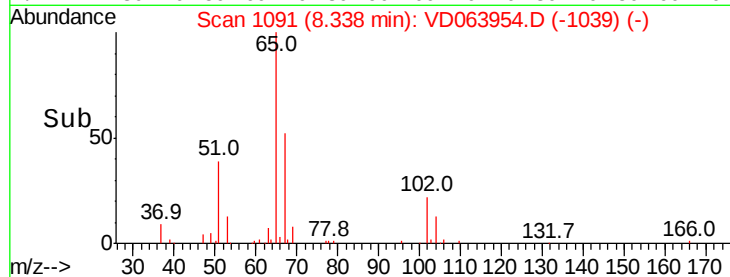
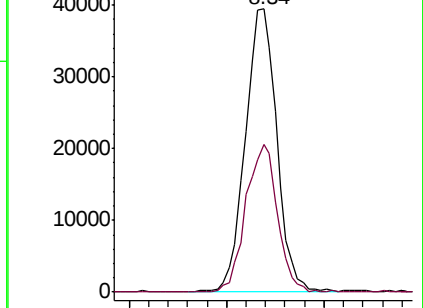
65 100

67 52.2 0.0 106.4



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: VD063954.D

Acq: 14 Oct 2019 14:29

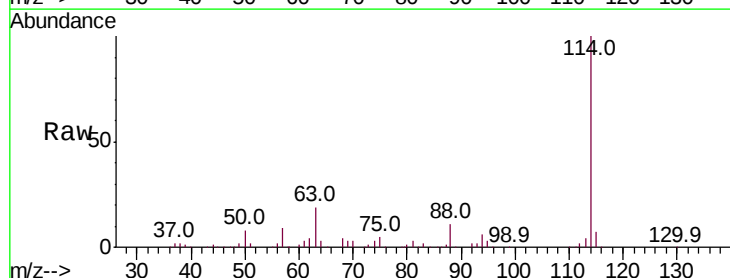
Tgt Ion:114 Resp: 299475

Ion Ratio Lower Upper

114 100

63 18.6 0.0 38.4

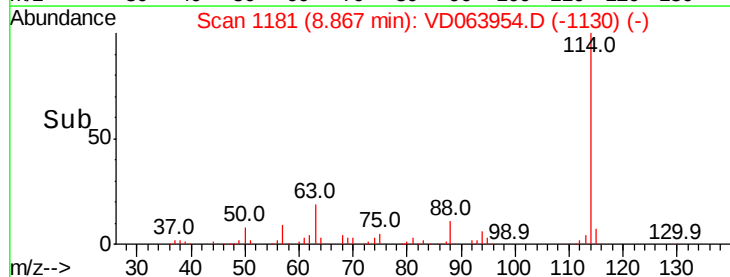
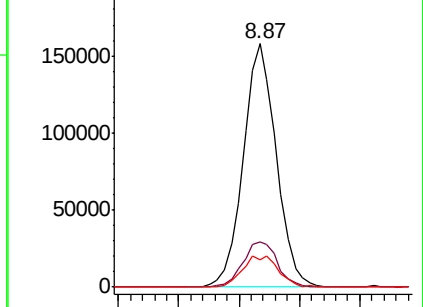
88 11.5 0.0 27.4

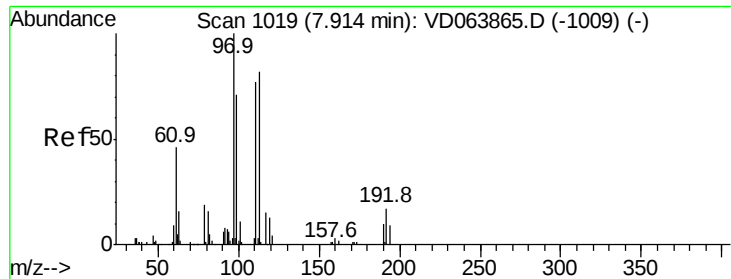


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

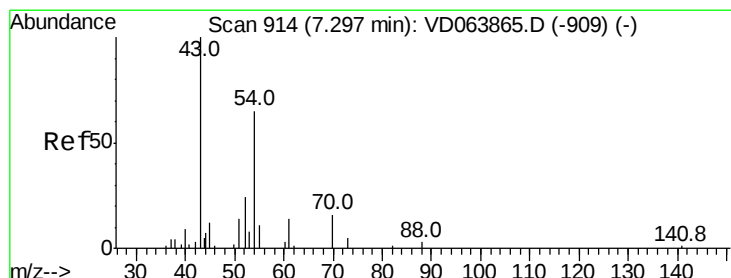
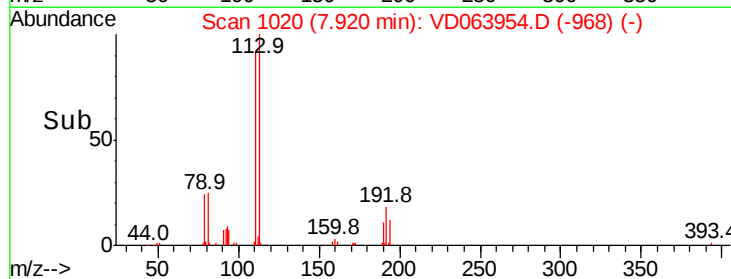
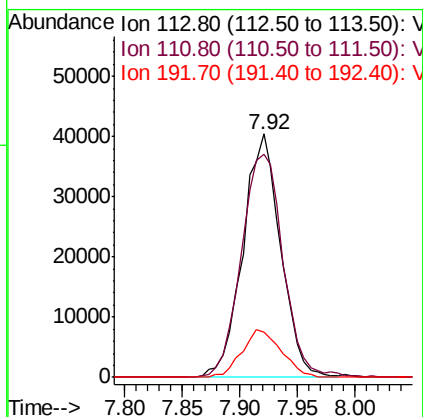
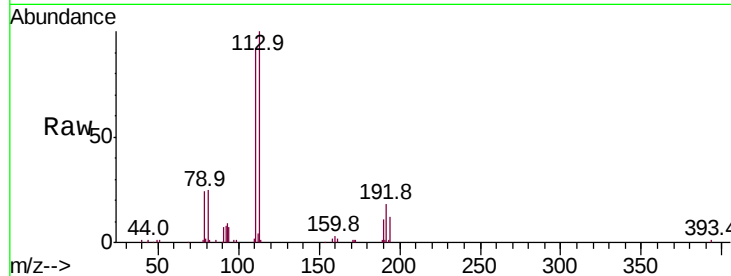




#35
Dibromofluoromethane
Concen: 50.459 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD063954.D
Acq: 14 Oct 2019 14:29

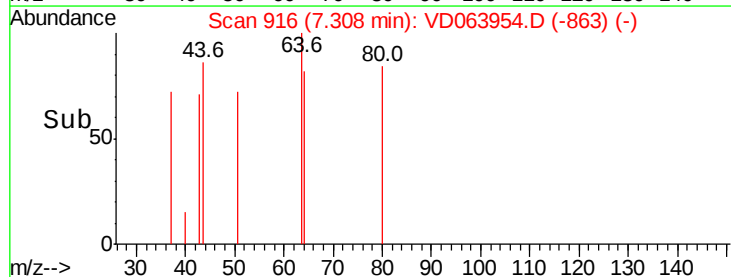
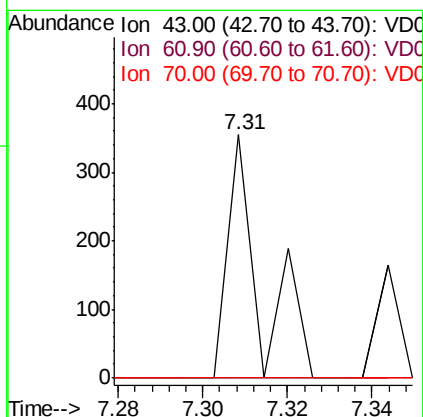
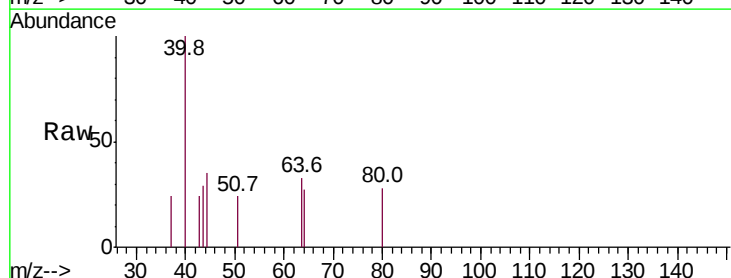
Instrument :
MSVOA_D
ClientSampled :

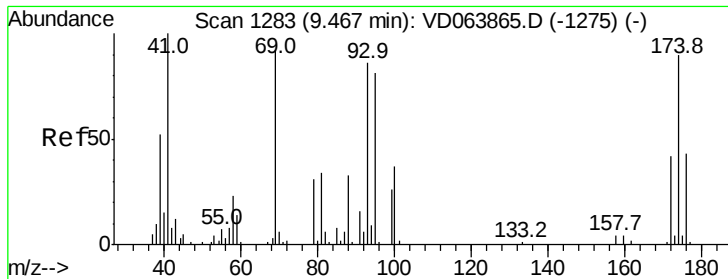
Tot Ion:113 Resp: 92349
Ion Ratio Lower Upper
113 100
111 101.3 82.6 123.8
192 20.2 17.1 25.7



#37
Ethyl Acetate
Concen: Below Cal
RT: 7.31 min Scan# 916
Delta R.T. 0.01 min
Lab File: VD063954.D
Acq: 14 Oct 2019 14:29

Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.2 12.4#





#49

1,4-Dioxane

Concen: 9.712 ug/l

RT: 9.27 min Scan# 1250

Delta R.T. -0.19 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

Instrument :
MSVOA_D
ClientSampled :

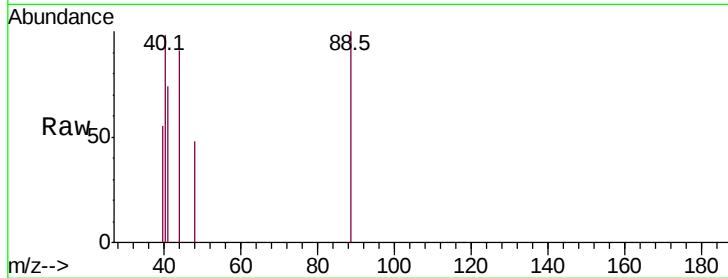
Tot Ion: 88 Resp: 145

Ion Ratio Lower Upper

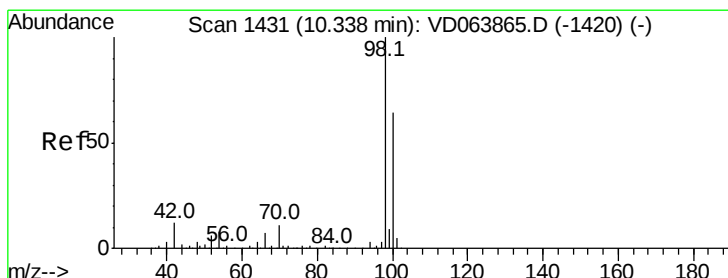
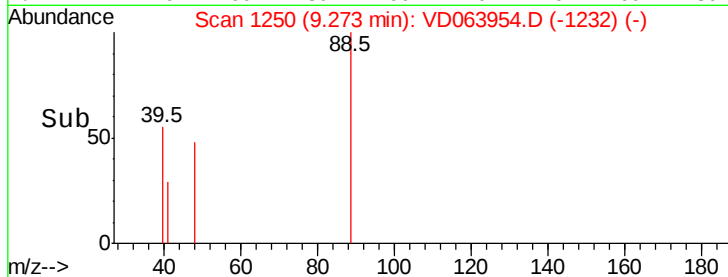
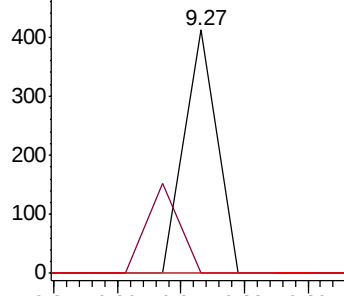
88 100

43 37.2 27.6 41.4

58 0.0 54.1 81.1#



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: 51.723 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD063954.D

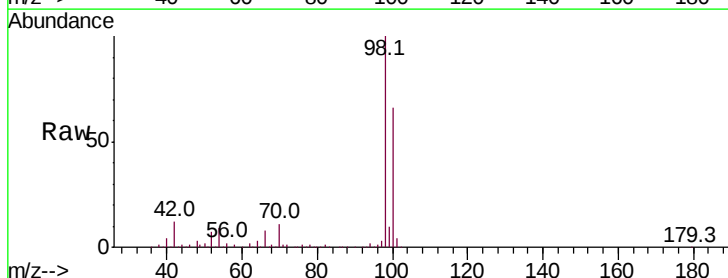
Acq: 14 Oct 2019 14:29

Tgt Ion: 98 Resp: 384217

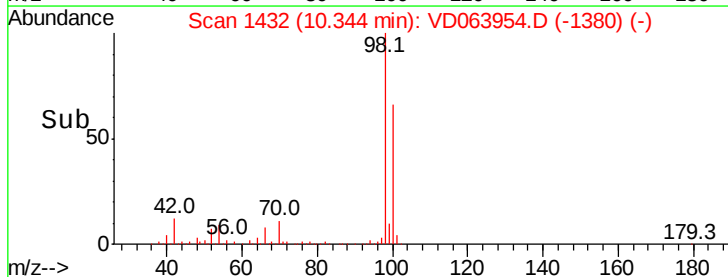
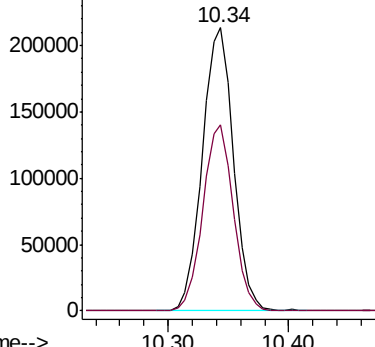
Ion Ratio Lower Upper

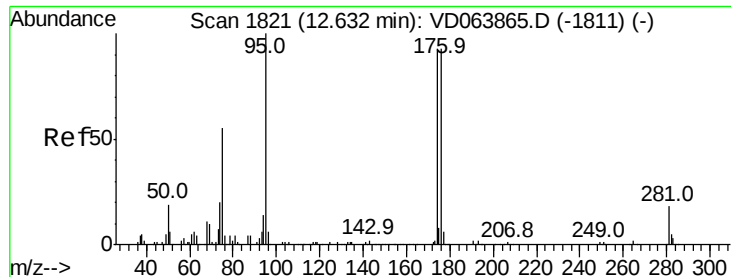
98 100

100 64.5 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 44.790 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

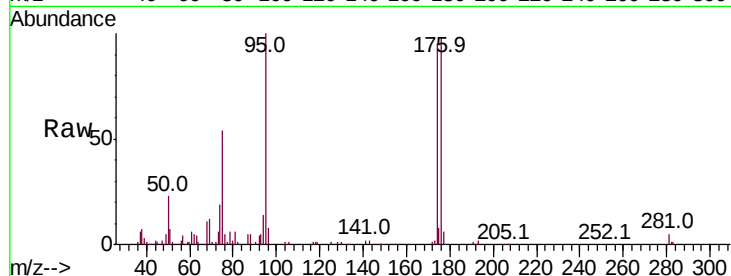
Tot Ion: 95 Resp: 115619

Ion Ratio Lower Upper

95 100

174 94.6 0.0 186.4

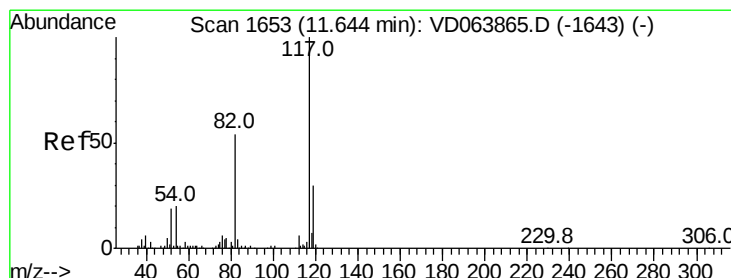
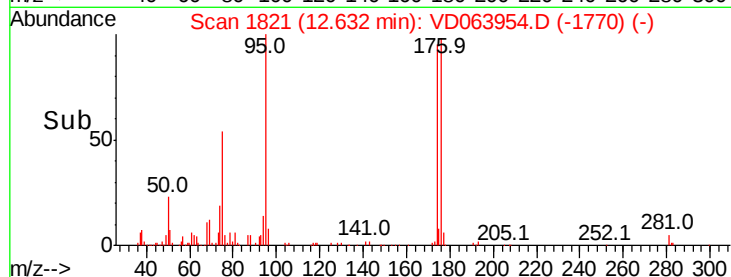
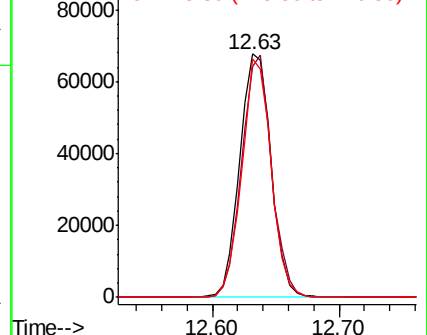
176 91.8 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

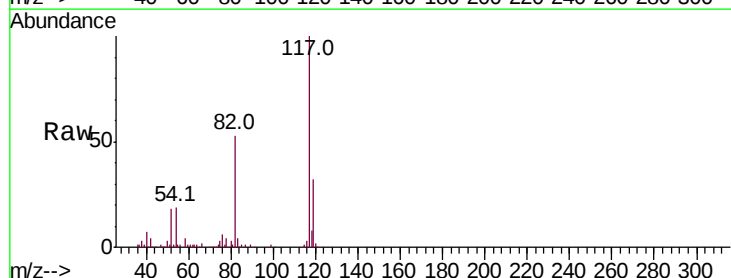
Tgt Ion: 117 Resp: 287305

Ion Ratio Lower Upper

117 100

82 52.8 42.8 64.2

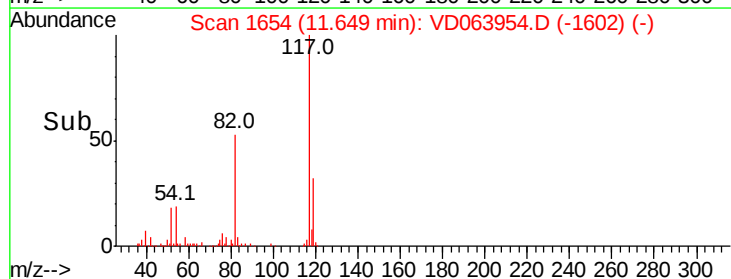
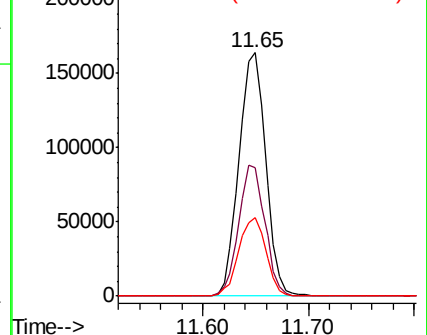
119 32.2 24.4 36.6

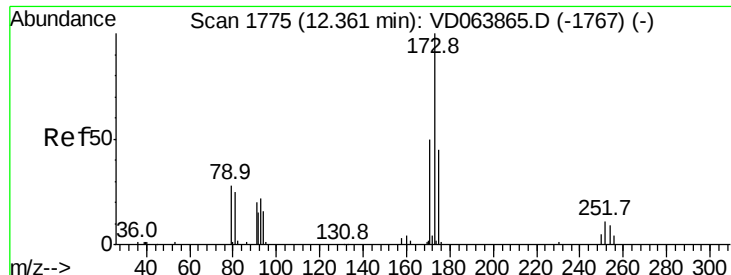


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

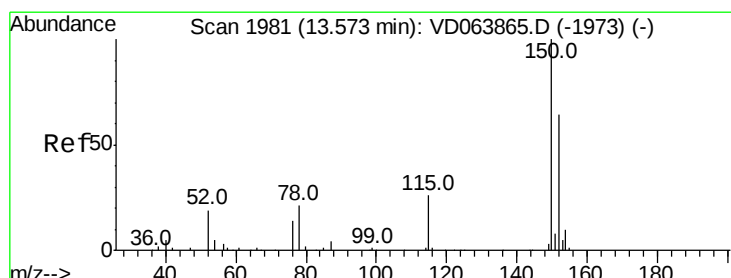
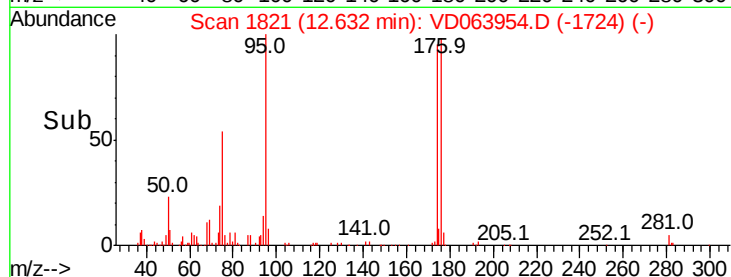
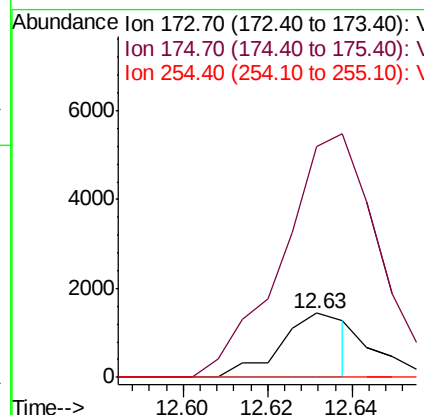
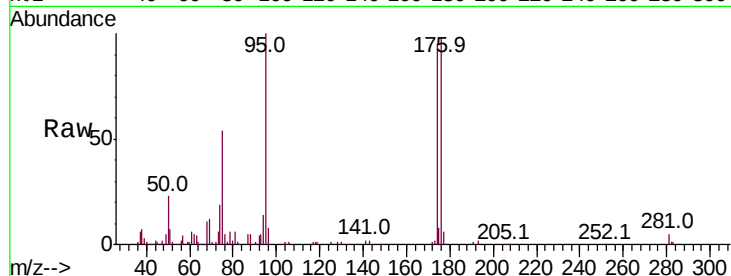




#71
Bromoform
Concen: 1.386 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.27 min
Lab File: VD063954.D
Acq: 14 Oct 2019 14:29

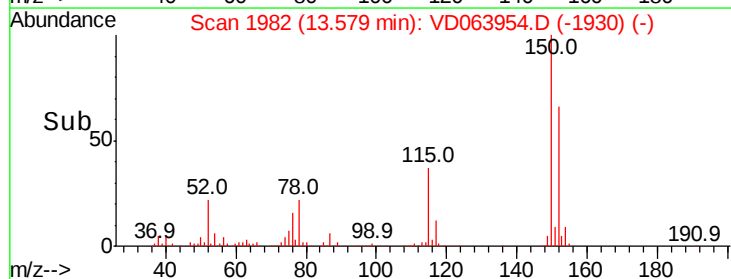
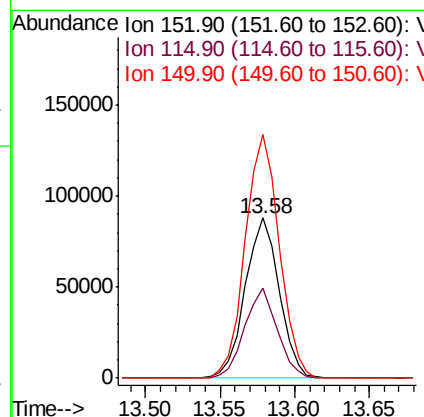
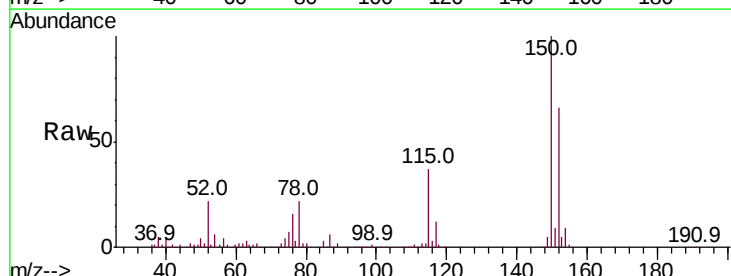
Instrument :
MSVOA_D
ClientSampleId :

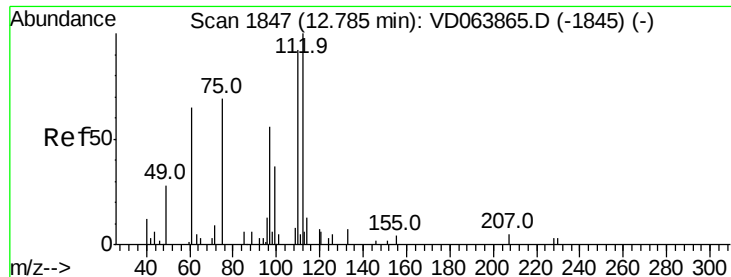
Tot Ion:173 Resp: 1581
Ion Ratio Lower Upper
173 100
175 0.0 24.6 74.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063954.D
Acq: 14 Oct 2019 14:29

Tgt Ion:152 Resp: 138856
Ion Ratio Lower Upper
152 100
115 53.6 25.9 77.7
150 152.0 0.0 344.2





#76

1,2,3-Trichloropropane

Concen: 66.869 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

Instrument :

MSVOA_D

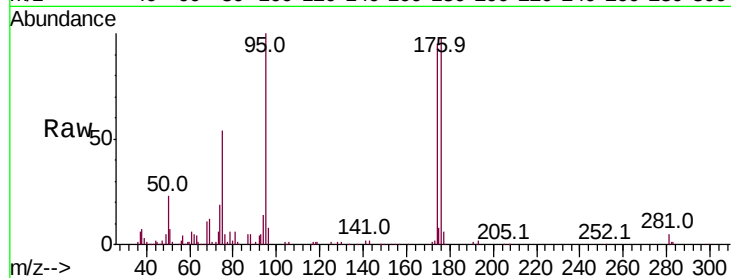
ClientSampleId :

Tot Ion: 75 Resp: 62189

Ion Ratio Lower Upper

75 100

77 2.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63

40000

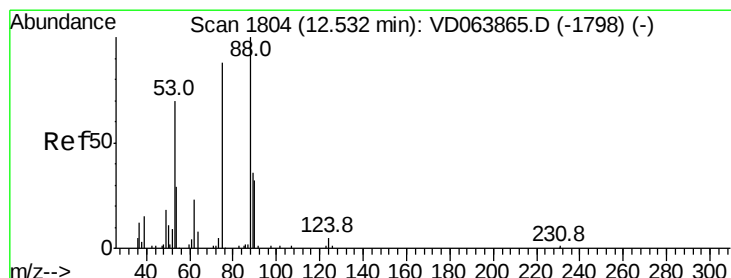
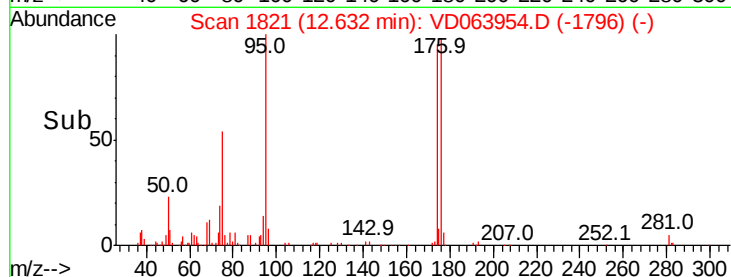
30000

20000

10000

0

Time--> 12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 118.330 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

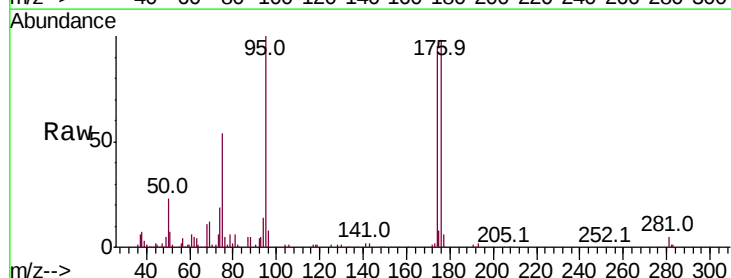
Tgt Ion: 75 Resp: 62189

Ion Ratio Lower Upper

75 100

53 0.2 75.0 112.6#

89 0.0 38.2 57.4#



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

50000

40000

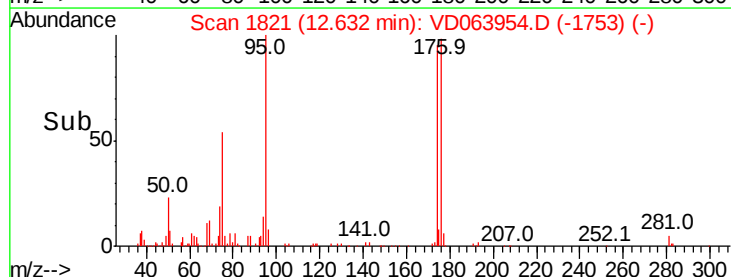
30000

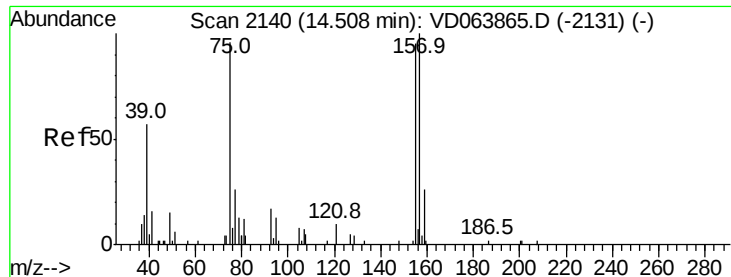
20000

10000

0

Time--> 12.55 12.60 12.65 12.70





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.52 min Scan# 2142

Delta R.T. 0.01 min

Lab File: VD063954.D

Acq: 14 Oct 2019 14:29

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 59

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#

