

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101419\
 Data File : VD063958.D
 Acq On : 14 Oct 2019 16:23
 Operator : VA/SY
 Sample : K5352-10
 Misc : 4.62G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 14 17:08:30 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	146591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	267394	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	268799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	132862	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	85463	59.88	ug/l	0.00
Spiked Amount						
			Recovery	=	119.76%	
35) Dibromofluoromethane	7.92	113	85311	52.21	ug/l	0.00
Spiked Amount						
			Recovery	=	104.42%	
50) Toluene-d8	10.34	98	354575	53.46	ug/l	0.00
Spiked Amount						
			Recovery	=	106.92%	
62) 4-Bromofluorobenzene	12.63	95	105680	45.85	ug/l	0.00
Spiked Amount						
			Recovery	=	91.70%	

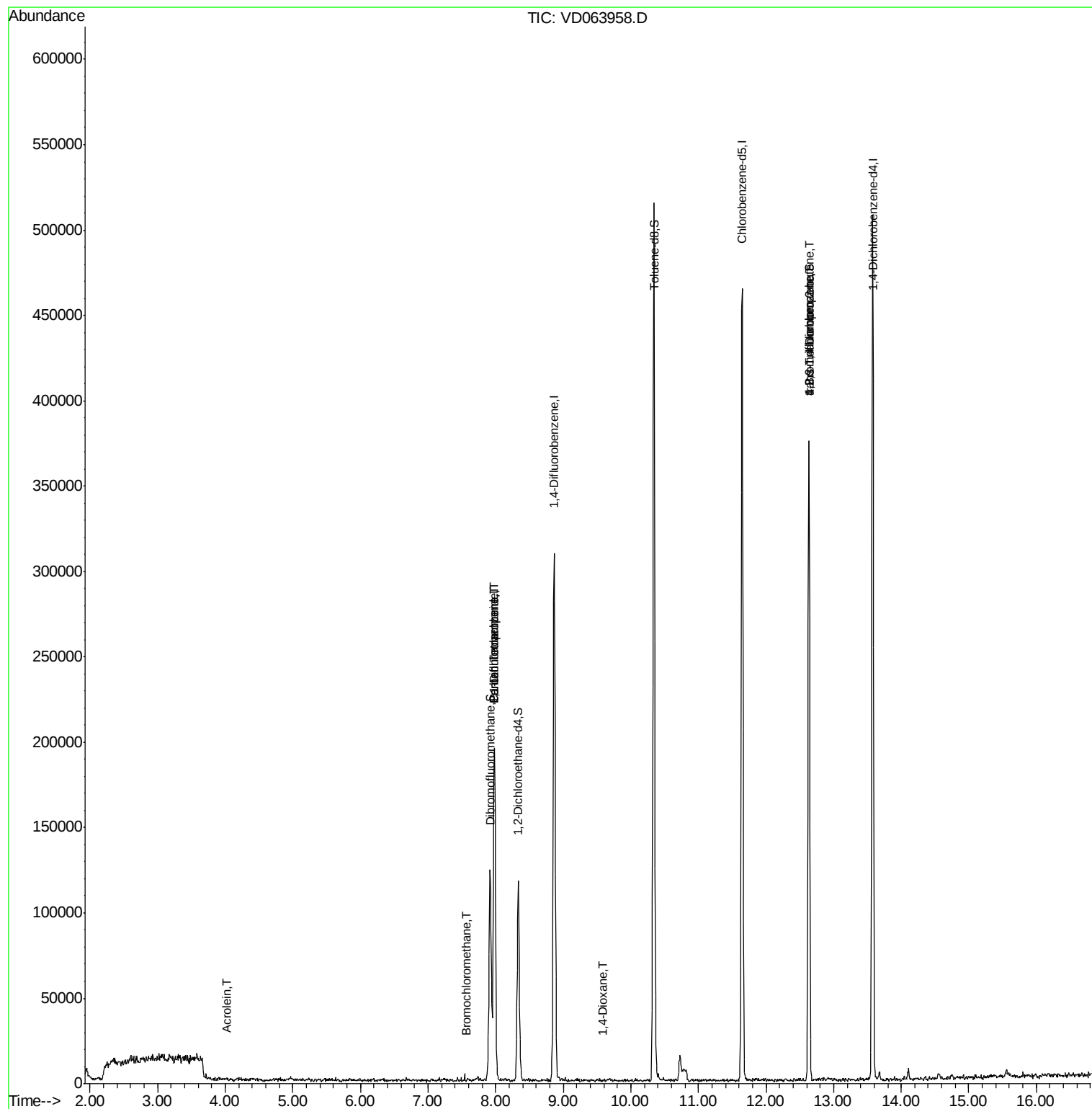
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	841	Below Cal	#	40
11) Tert butyl alcohol	5.23	59	252	Below Cal	#	1
13) Acrolein	4.02	56	132	1.036	ug/l #	81
20) Methylene Chloride	4.97	84	827	Below Cal	#	66
28) Bromochloromethane	7.57	49	75	1.938	ug/l #	10
31) Cyclohexane	7.98	56	4005	Below Cal	#	50
36) 1,1-Dichloropropene	7.98	75	11590	4.741	ug/l #	49
37) Ethyl Acetate	7.30	43	131	Below Cal	#	68
38) Carbon Tetrachloride	7.99	117	15246	6.171	ug/l #	15
49) 1,4-Dioxane	9.58	88	53	3.976	ug/l #	24
76) 1,2,3-Trichloropropane	12.63	75	57498	64.614	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	57498	114.340	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.55	75	61	Below Cal	#	1

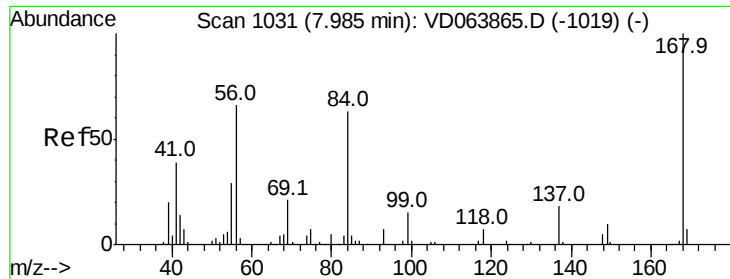
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

Instrument :

MSVOA_D

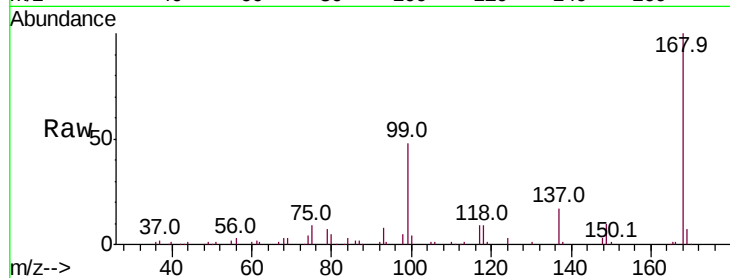
ClientSampleId :

Tot Ion:168 Resp: 146591

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

7.98

60000

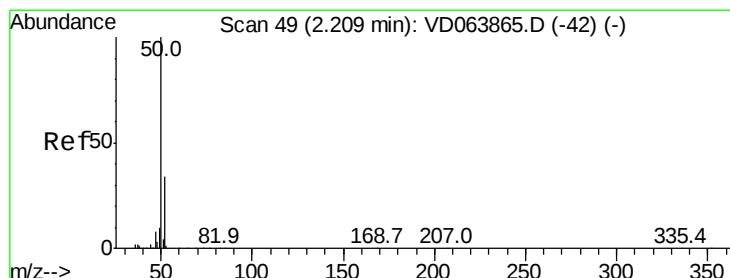
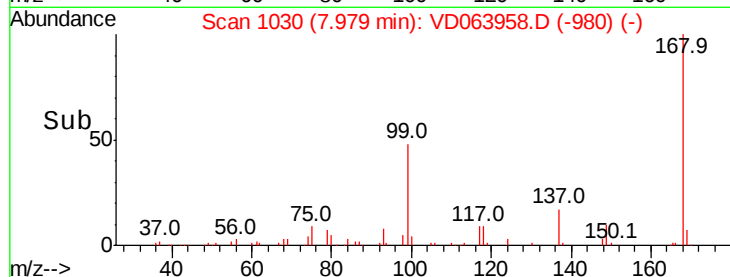
40000

20000

0

Time-->

7.90 8.00 8.10



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063958.D

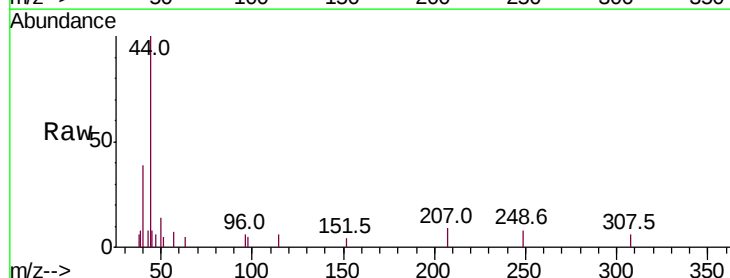
Acq: 14 Oct 2019 16:23

Tgt Ion: 50 Resp: 841

Ion Ratio Lower Upper

50 100

52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

500

400

300

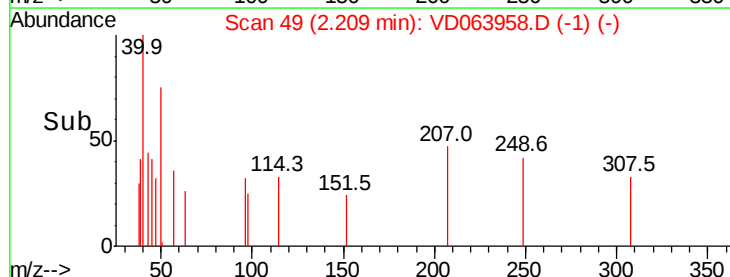
200

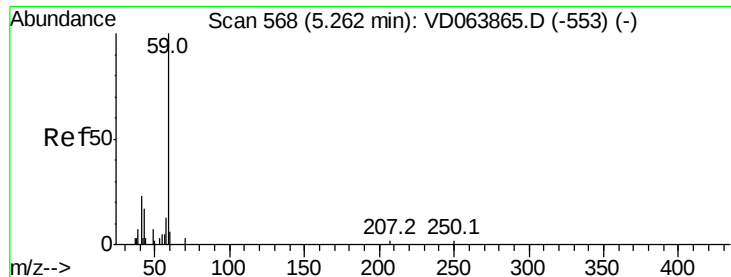
100

0

Time-->

2.16 2.18 2.20 2.22 2.24

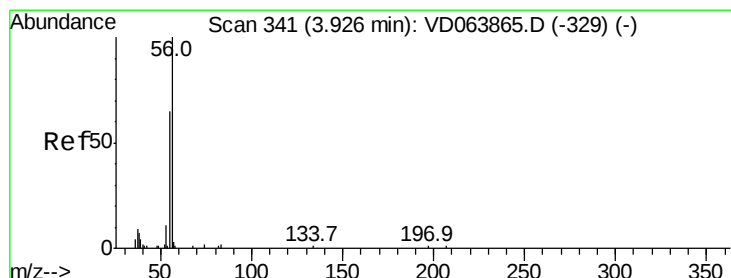
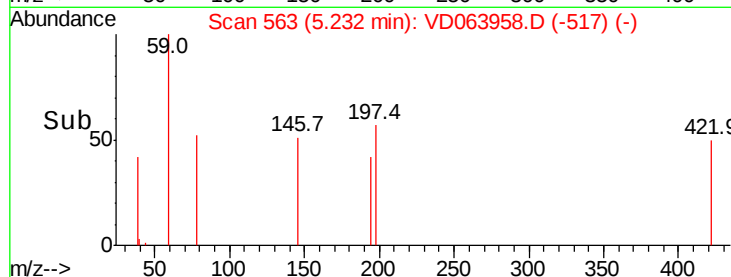
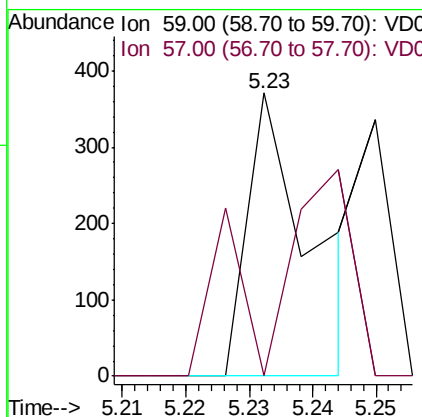
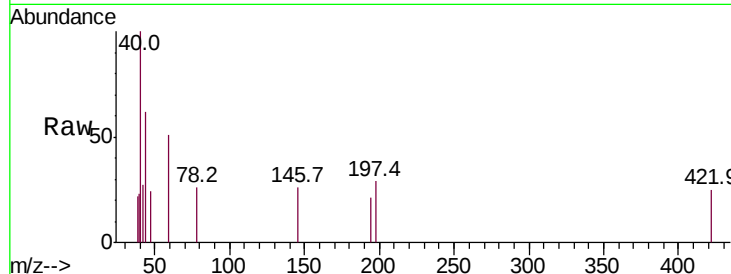




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.23 min Scan# 563
Delta R.T. -0.03 min
Lab File: VD063958.D
Acq: 14 Oct 2019 16:23

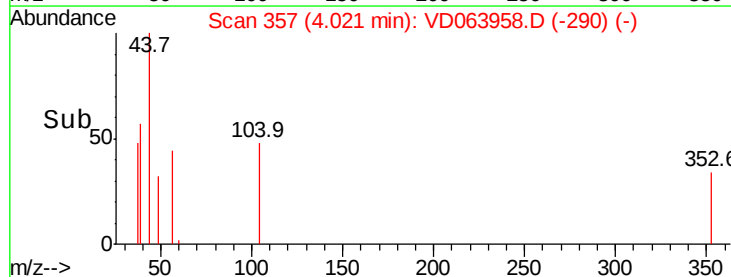
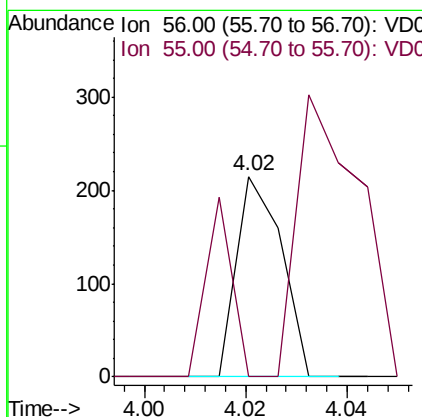
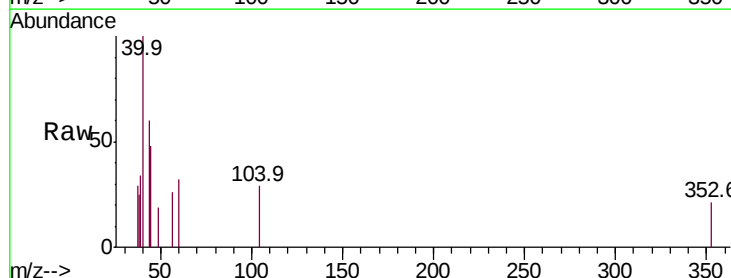
Instrument :
MSVOA_D
ClientSampled :

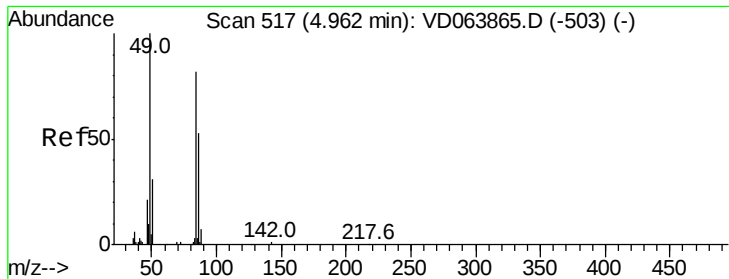
Tot Ion: 59 Resp: 252
Ion Ratio Lower Upper
59 100
57 99.2 8.8 13.2#



#13
Acrolein
Concen: 1.036 ug/l
RT: 4.02 min Scan# 357
Delta R.T. 0.09 min
Lab File: VD063958.D
Acq: 14 Oct 2019 16:23

Tgt Ion: 56 Resp: 132
Ion Ratio Lower Upper
56 100
55 51.5 53.0 79.6#

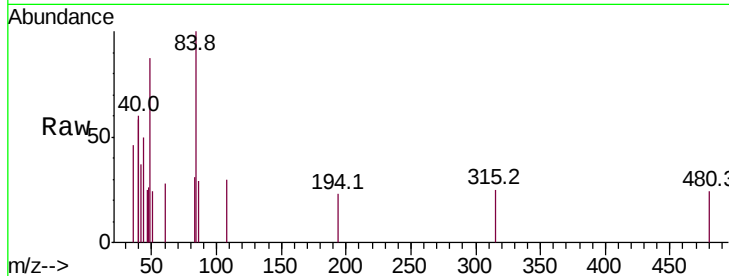




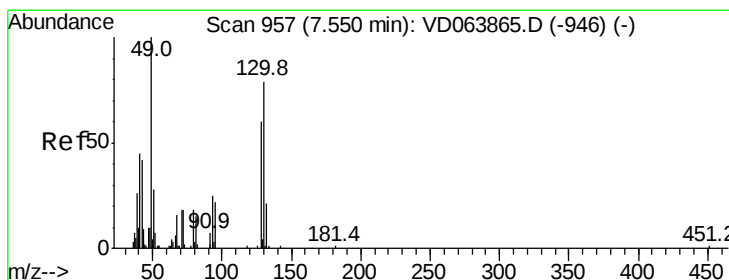
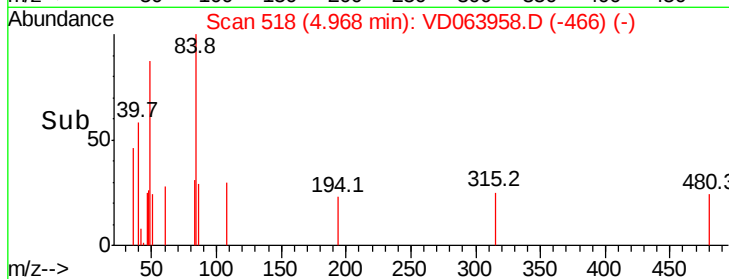
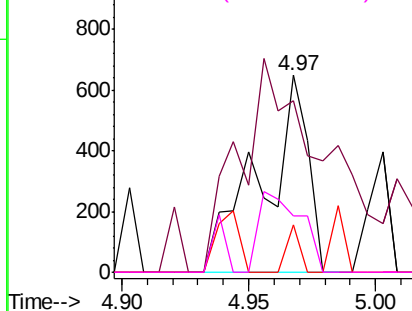
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD063958.D
Acq: 14 Oct 2019 16:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 827
Ion Ratio Lower Upper
84 100
49 86.9 97.3 145.9#
51 24.4 30.1 45.1#
86 28.5 51.4 77.2#

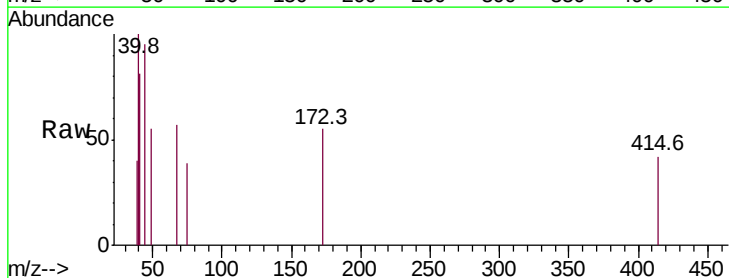


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

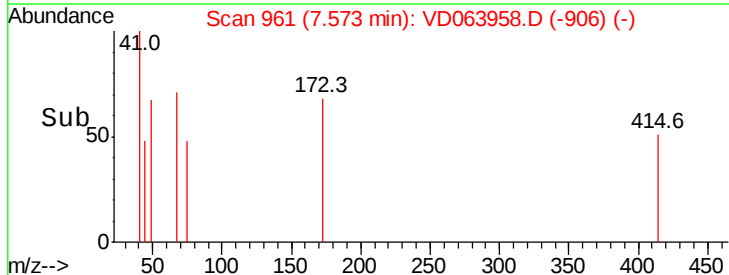
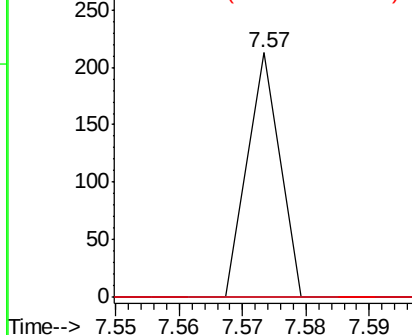


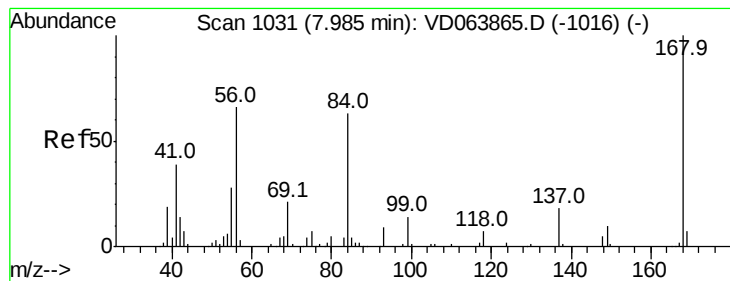
#28
Bromochloromethane
Concen: 1.938 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.02 min
Lab File: VD063958.D
Acq: 14 Oct 2019 16:23

Tgt Ion: 49 Resp: 75
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): V
Ion 129.80 (129.50 to 130.50): V





#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

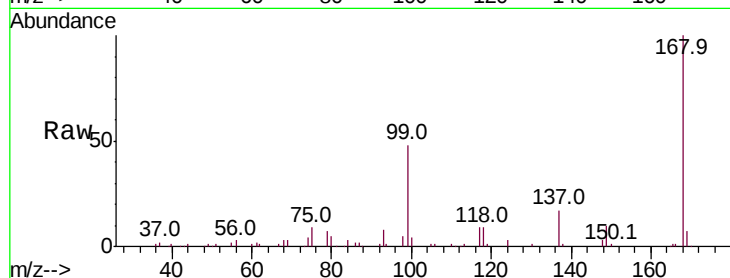
Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

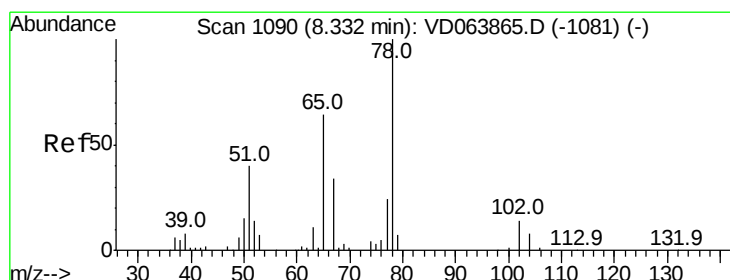
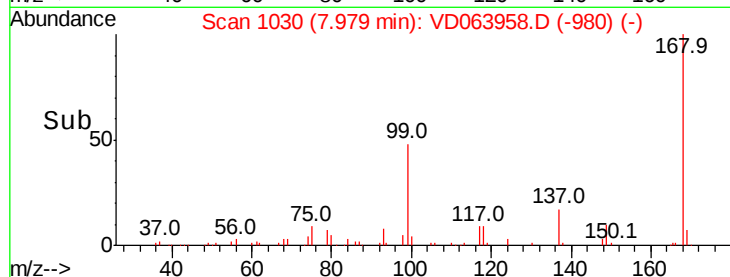
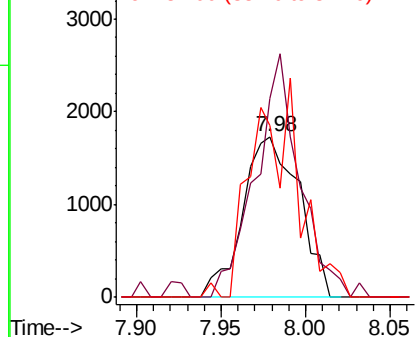
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 4005

Ion	Ratio	Lower	Upper
56	100		
69	123.4	25.0	37.4#
84	107.0	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: 59.883 ug/l

RT: 8.34 min Scan# 1091

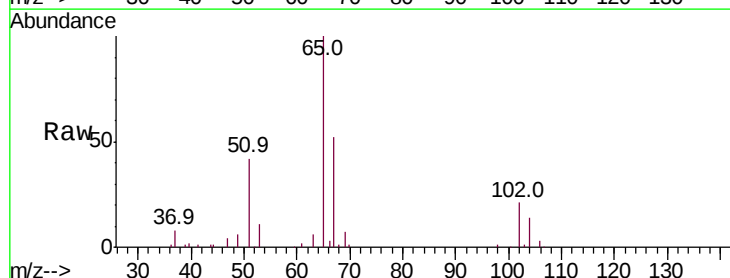
Delta R.T. 0.01 min

Lab File: VD063958.D

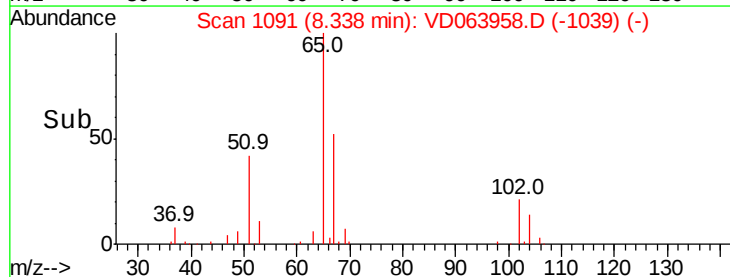
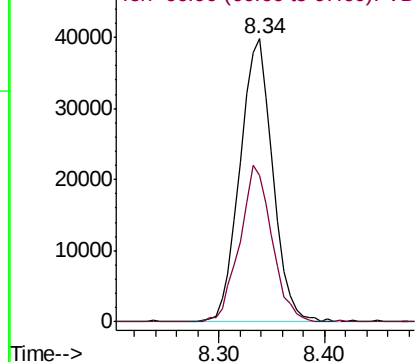
Acq: 14 Oct 2019 16:23

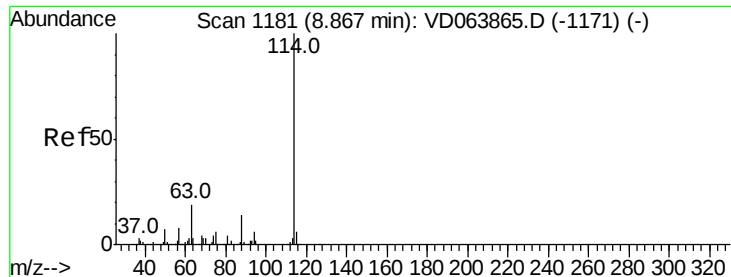
Tgt Ion: 65 Resp: 85463

Ion	Ratio	Lower	Upper
65	100		
67	54.3	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

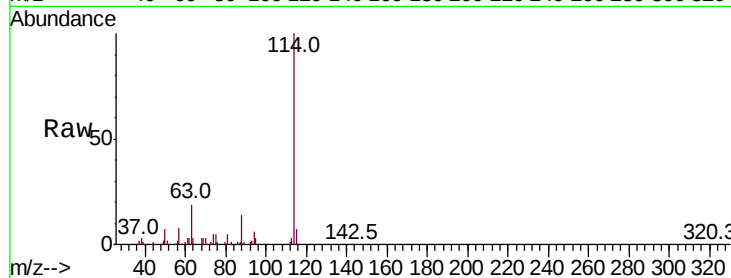
Delta R.T. -0.00 min

Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

Instrument :
MSVOA_D
ClientSampleId :

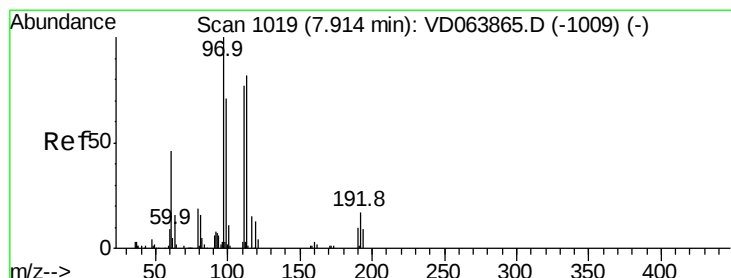
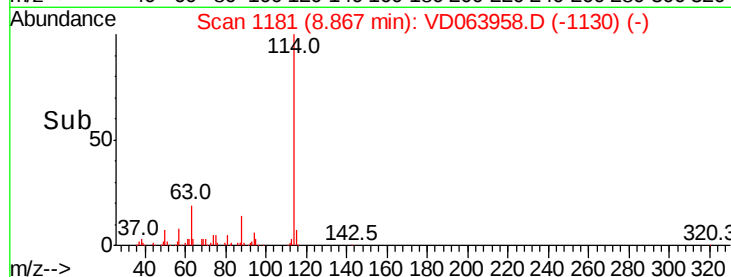
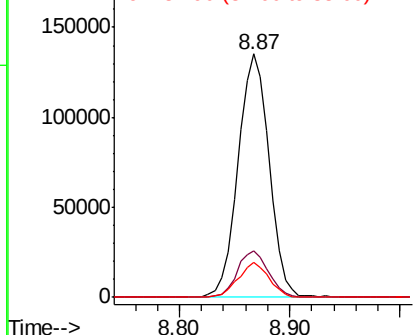
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.4
88	14.4	0.0	27.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 52.206 ug/l

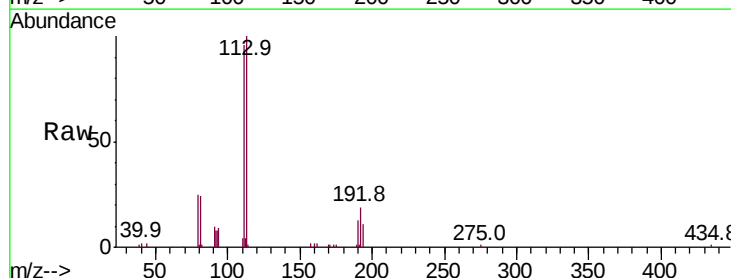
RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

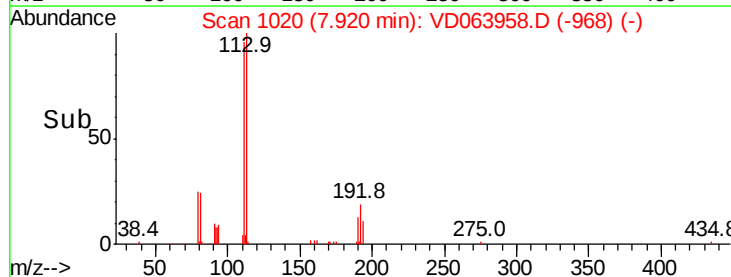
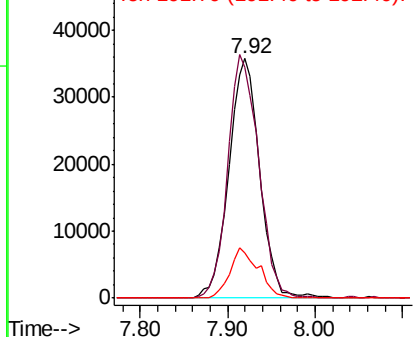
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.6	123.8
192	19.4	17.1	25.7

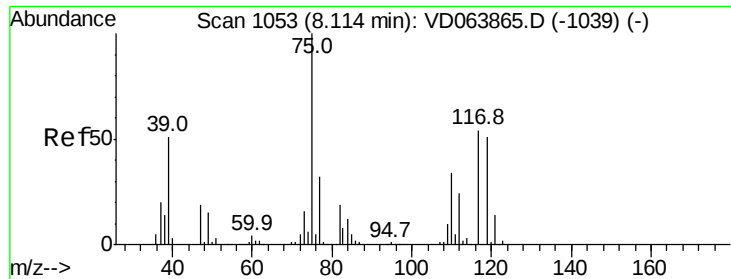


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

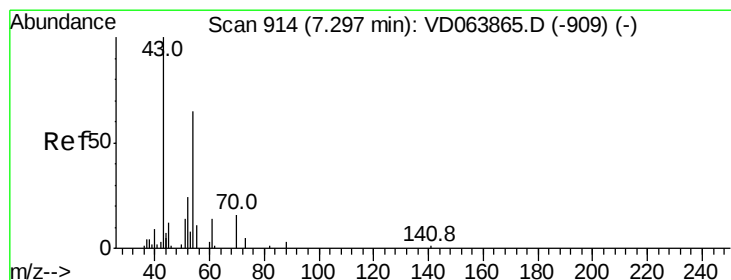
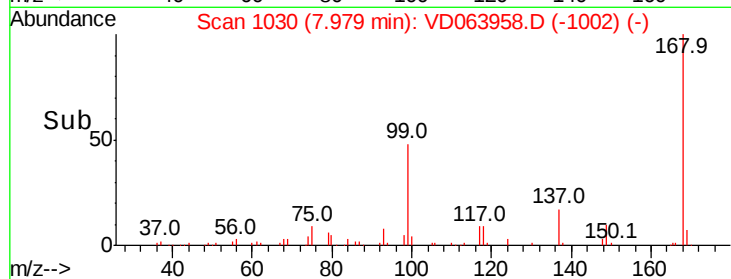
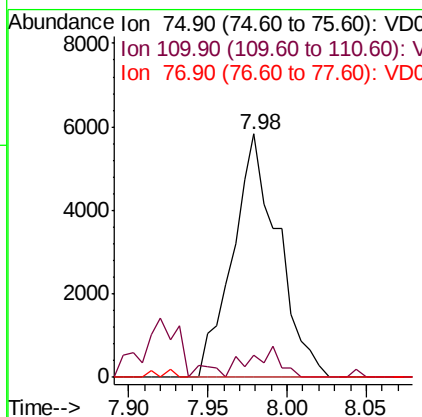
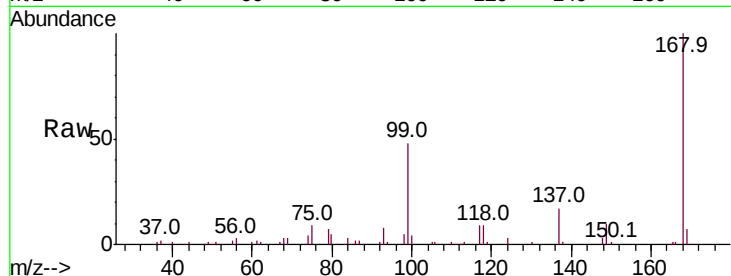




#36
 1,1-Dichloropropene
 Concen: 4.741 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD063958.D
 Acq: 14 Oct 2019 16:23

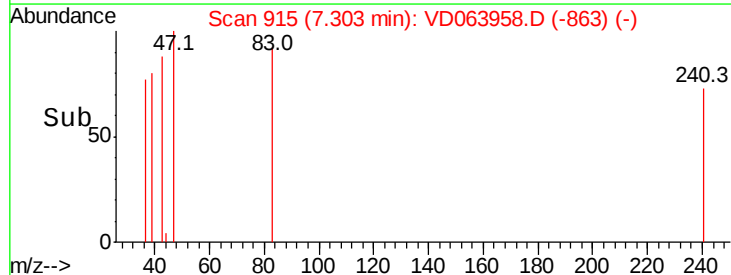
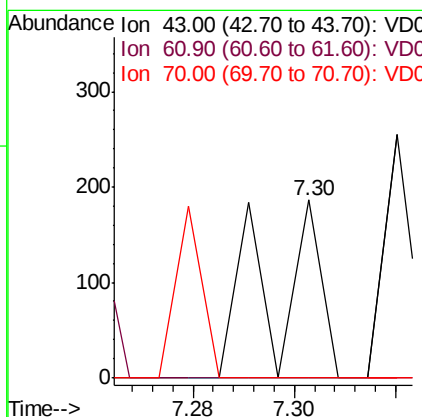
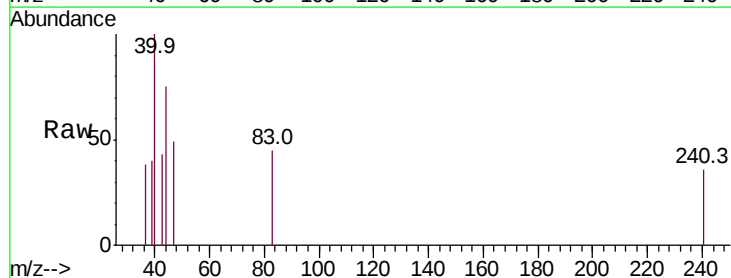
Instrument :
 MSVOA_D
 ClientSampleId :

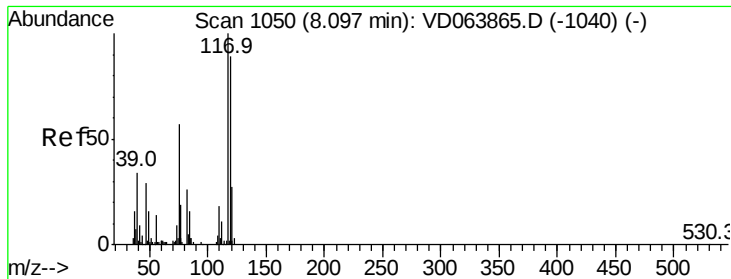
Tot Ion: 75 Resp: 11590
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.4 52.3#
 77 0.0 25.4 38.0#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.30 min Scan# 915
 Delta R.T. 0.01 min
 Lab File: VD063958.D
 Acq: 14 Oct 2019 16:23

Tgt Ion: 43 Resp: 131
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 8.2 12.4#





#38

Carbon Tetrachloride

Concen: 6.171 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

Instrument :

MSVOA_D

ClientSampleId :

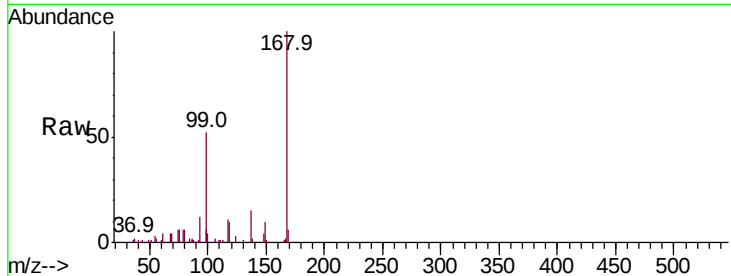
Tot Ion:117 Resp: 15246

Ion Ratio Lower Upper

117 100

119 0.0 70.8 106.2#

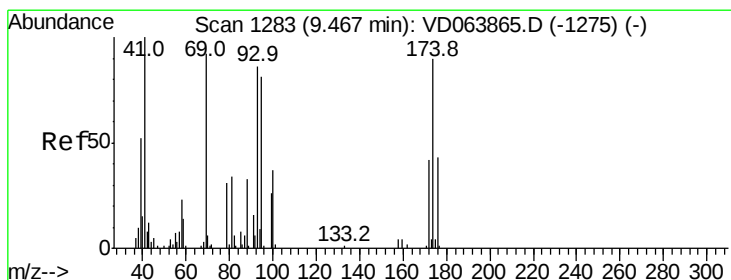
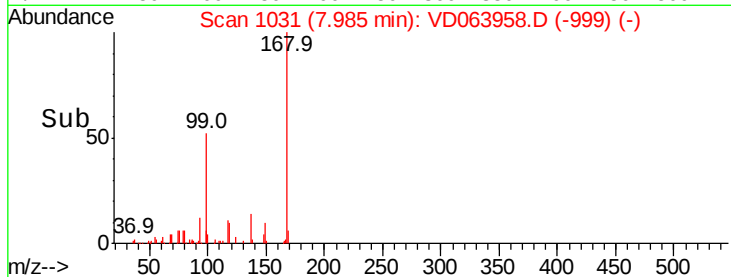
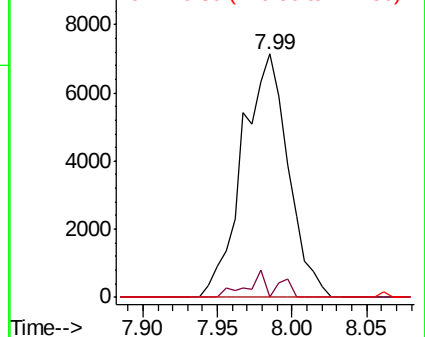
121 0.0 21.4 32.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 3.976 ug/l

RT: 9.58 min Scan# 1303

Delta R.T. 0.12 min

Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

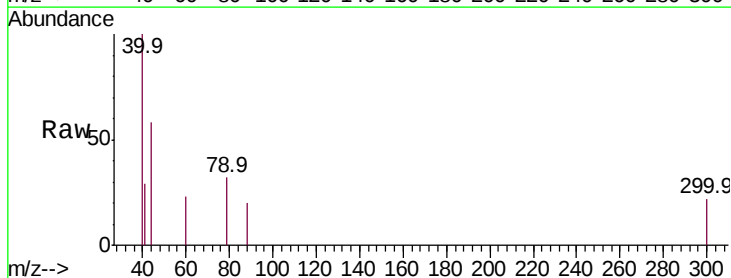
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 0.0 27.6 41.4#

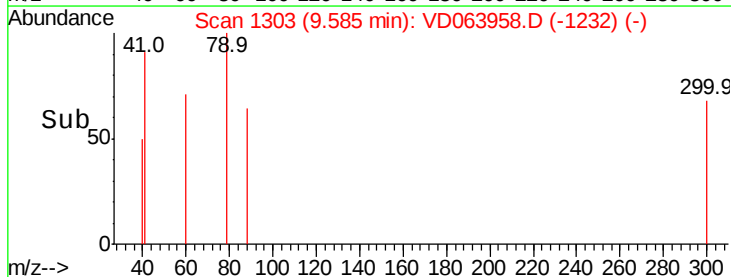
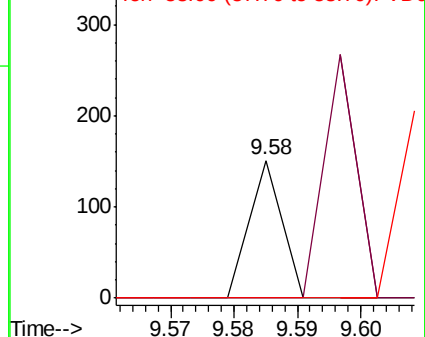
58 0.0 54.1 81.1#

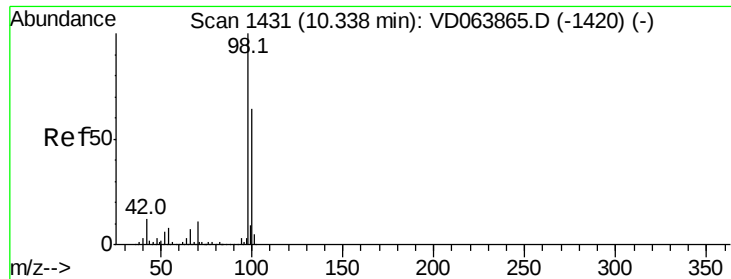


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

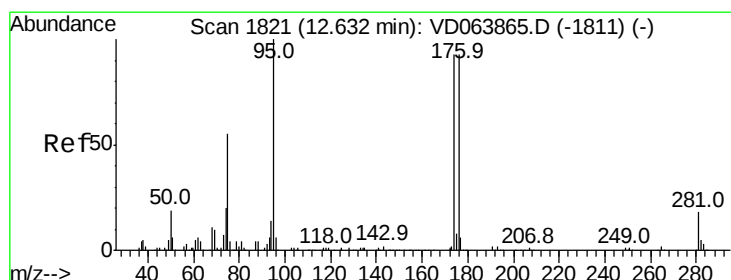
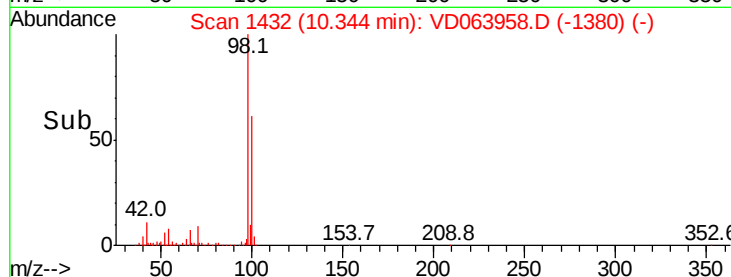
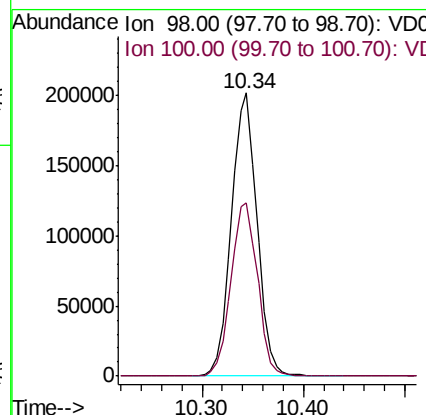
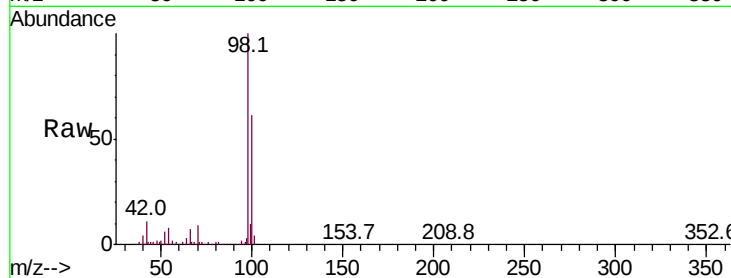




#50
Toluene-d8
Concen: 53.459 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD063958.D
Acq: 14 Oct 2019 16:23

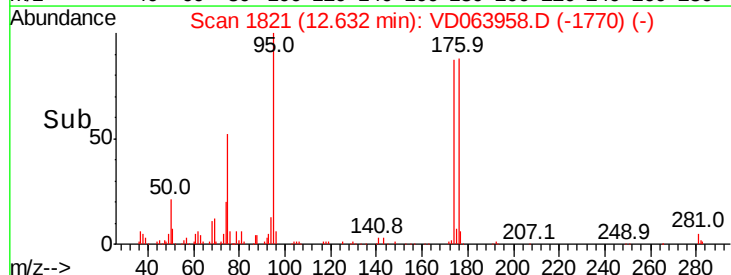
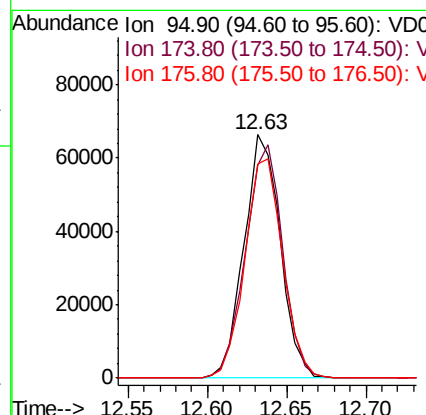
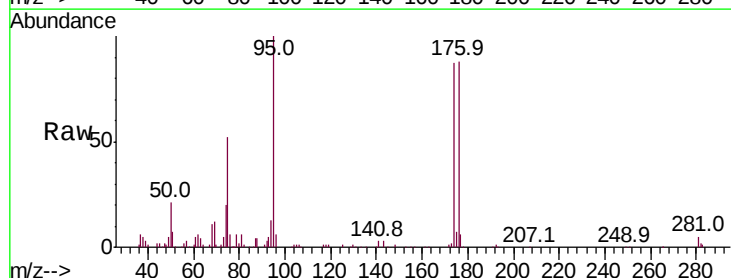
Instrument :
MSVOA_D
ClientSampleId :

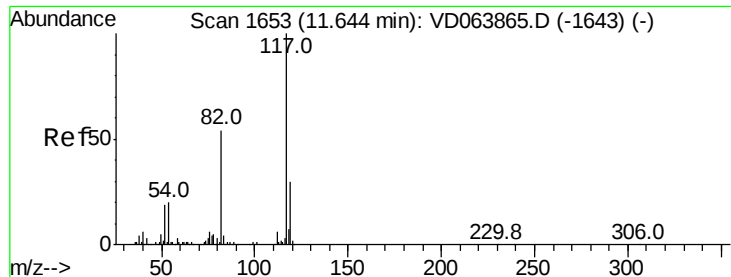
Tot Ion: 98 Resp: 354575
Ion Ratio Lower Upper
98 100
100 63.1 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 45.851 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD063958.D
Acq: 14 Oct 2019 16:23

Tgt Ion: 95 Resp: 105680
Ion Ratio Lower Upper
95 100
174 98.0 0.0 186.4
176 93.9 0.0 184.2

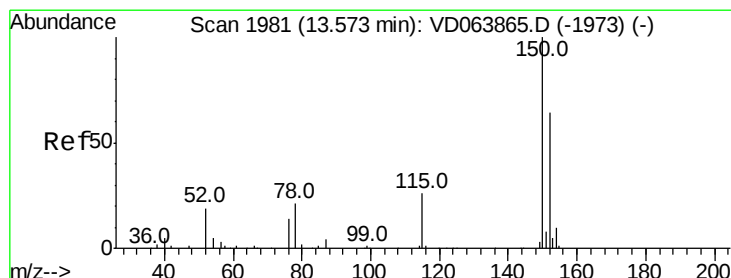
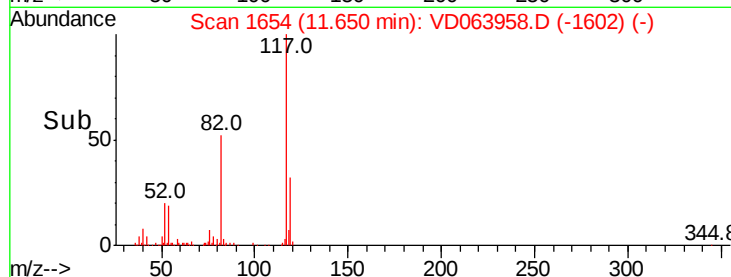
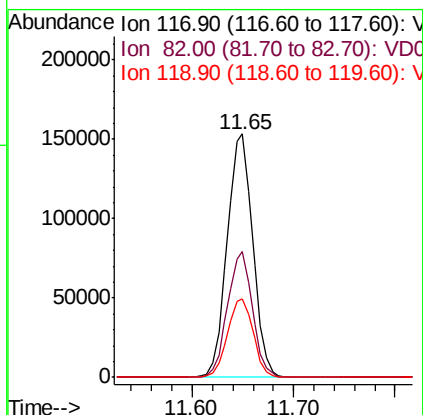
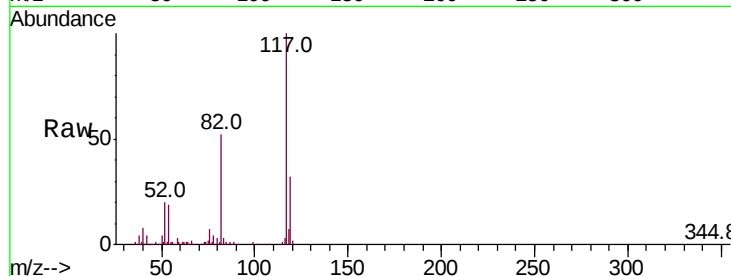




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD063958.D
Acq: 14 Oct 2019 16:23

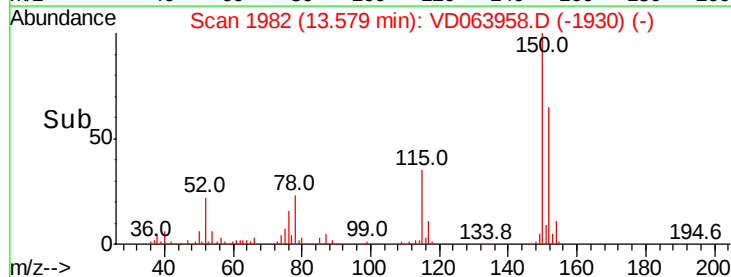
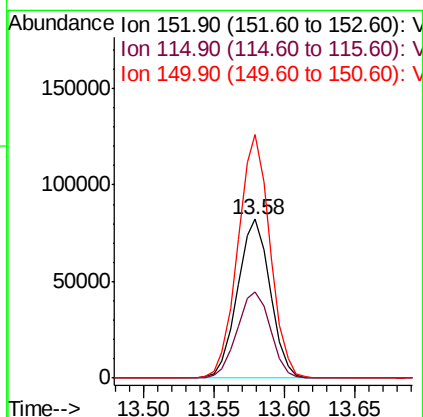
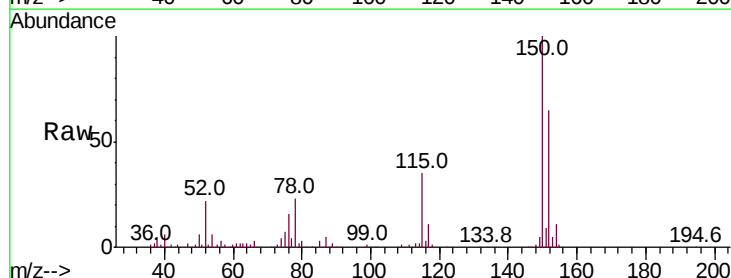
Instrument :
MSVOA_D
ClientSampleId :

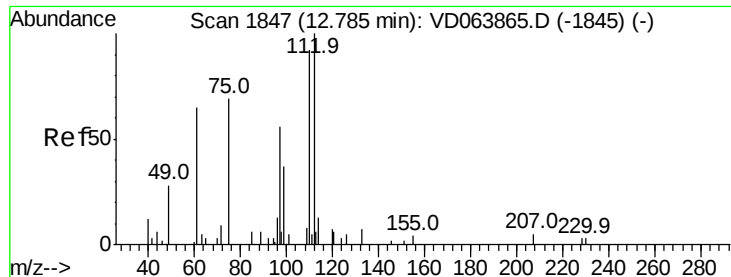
Tot Ion:117 Resp: 268799
Ion Ratio Lower Upper
117 100
82 51.7 42.8 64.2
119 32.3 24.4 36.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063958.D
Acq: 14 Oct 2019 16:23

Tgt Ion:152 Resp: 132862
Ion Ratio Lower Upper
152 100
115 55.4 25.9 77.7
150 150.6 0.0 344.2





#76

1,2,3-Trichloropropane

Concen: 64.614 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

Instrument :

MSVOA_D

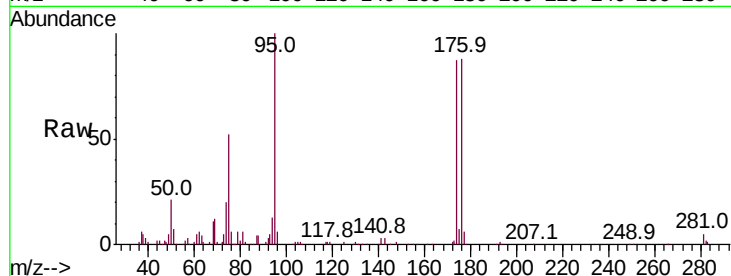
ClientSampleId :

Tot Ion: 75 Resp: 57498

Ion Ratio Lower Upper

75 100

77 1.3 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

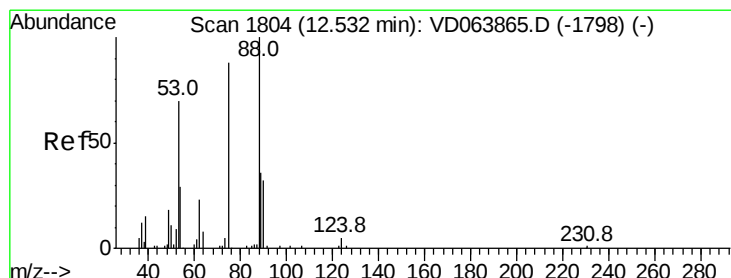
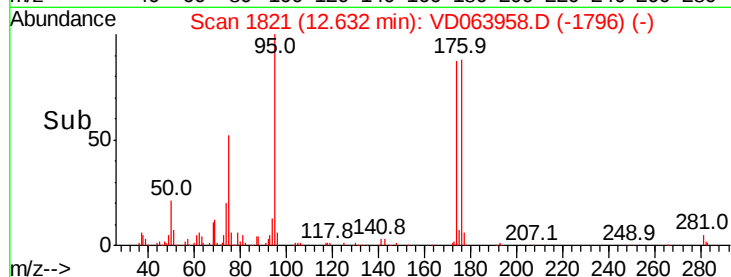
30000

20000

10000

0

Time--> 12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 114.340 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

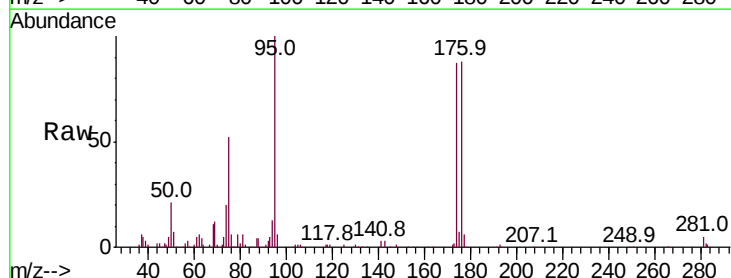
Tgt Ion: 75 Resp: 57498

Ion Ratio Lower Upper

75 100

53 0.0 75.0 112.6#

89 0.1 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

12.63

40000

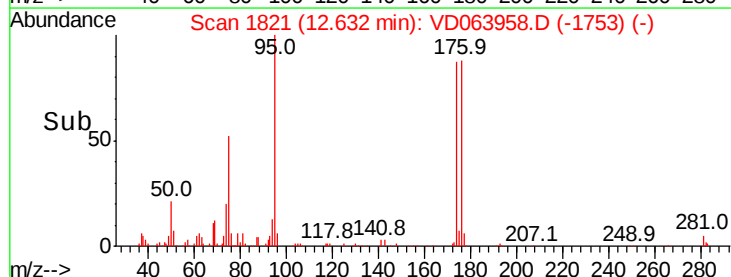
30000

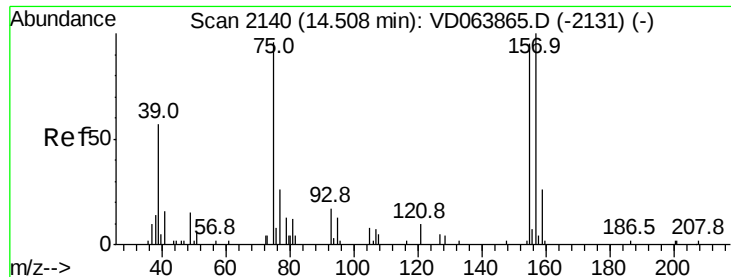
20000

10000

0

Time--> 12.55 12.60 12.65 12.70





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.55 min Scan# 2147

Delta R.T. 0.04 min

Lab File: VD063958.D

Acq: 14 Oct 2019 16:23

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#

