

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101119\
 Data File : VD063946.D
 Acq On : 11 Oct 2019 19:30
 Operator : VA/SY
 Sample : K5316-01
 Misc : 7.14G/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 12 01:39:32 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	140894	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	255542	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	228358	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	89930	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	76789	55.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.96%	
35) Dibromofluoromethane	7.91	113	79124	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
50) Toluene-d8	10.34	98	320301	50.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.64	95	86245	39.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.30%	

Target Compounds

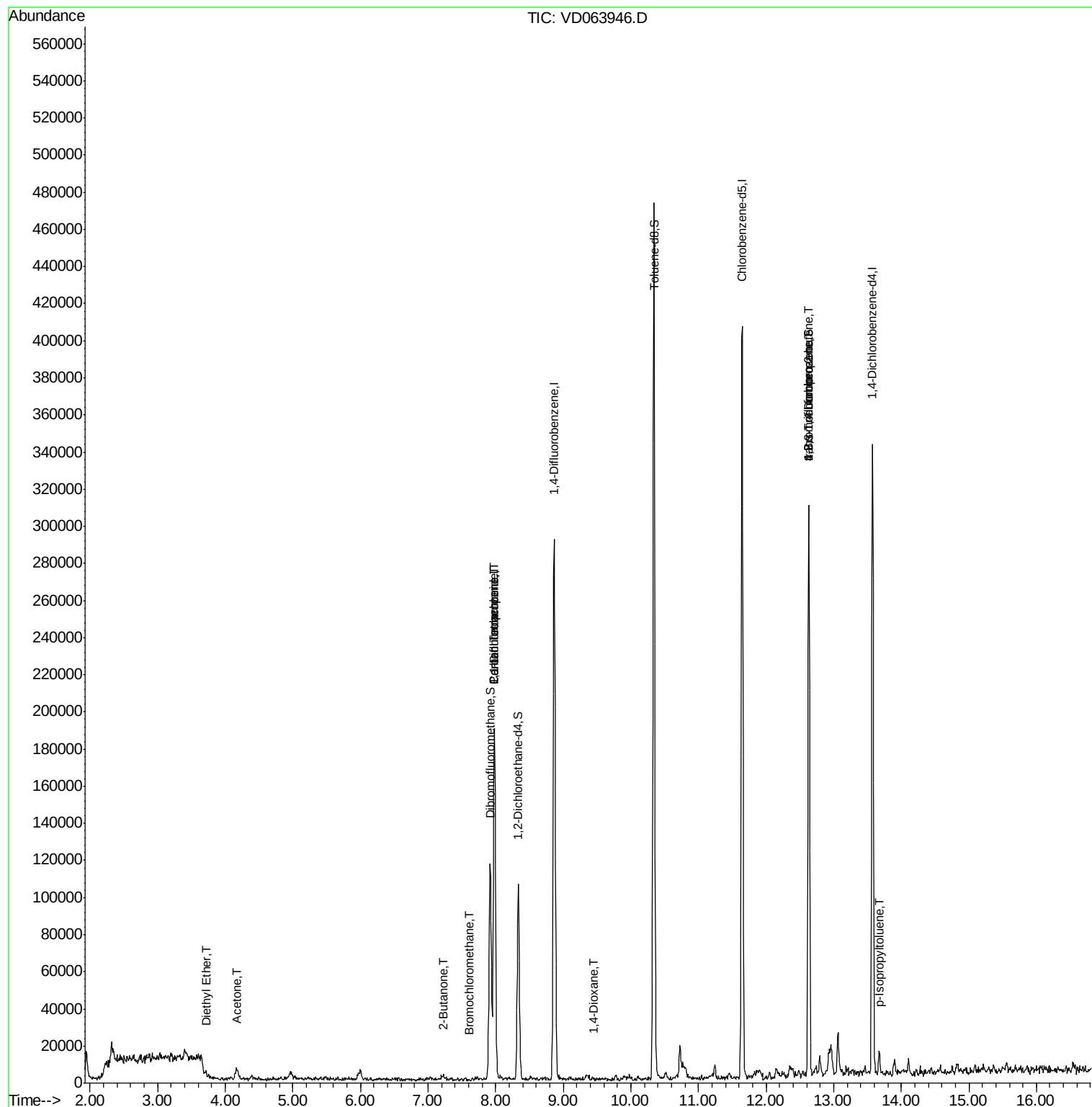
					Qvalue	
3) Chloromethane	2.21	50	155	Below Cal	#	17
8) Diethyl Ether	3.71	74	907	1.323	ug/l	73
11) Tert butyl alcohol	5.25	59	388	Below Cal	#	71
16) Acetone	4.16	43	10450	29.261	ug/l #	87
20) Methylene Chloride	4.97	84	2548	Below Cal	#	76
25) 2-Butanone	7.23	43	840	1.985	ug/l #	51
28) Bromochloromethane	7.61	49	55	1.921	ug/l #	10
31) Cyclohexane	7.98	56	3694	Below Cal	#	25
36) 1,1-Dichloropropene	7.98	75	10779	4.613	ug/l #	48
37) Ethyl Acetate	7.29	43	102	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	14942	6.328	ug/l #	22
49) 1,4-Dioxane	9.46	88	79	6.201	ug/l #	24
76) 1,2,3-Trichloropropane	12.63	75	45308	75.222	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	45308	133.112	ug/l #	12
86) p-Isopropyltoluene	13.67	119	6115	1.066	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.50	75	55	Below Cal	#	1

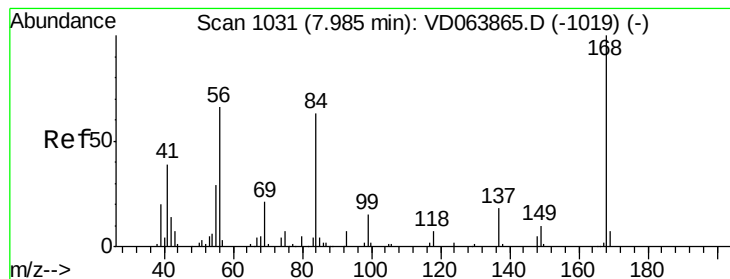
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD063946.D

Acq: 11 Oct 2019 19:30

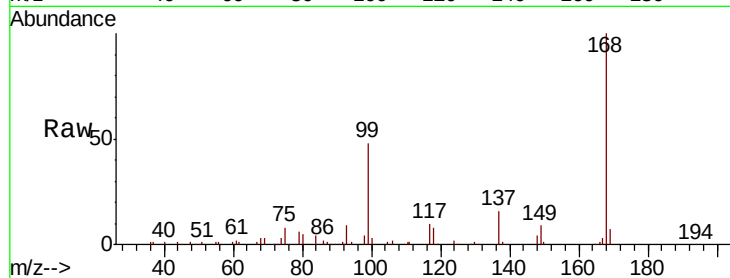
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 140894

Ion Ratio Lower Upper

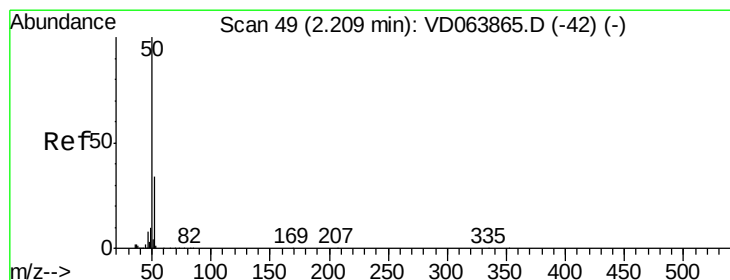
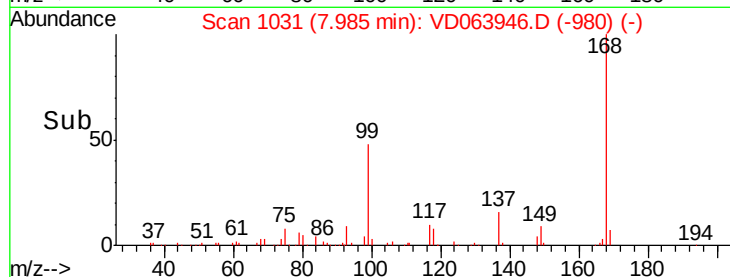
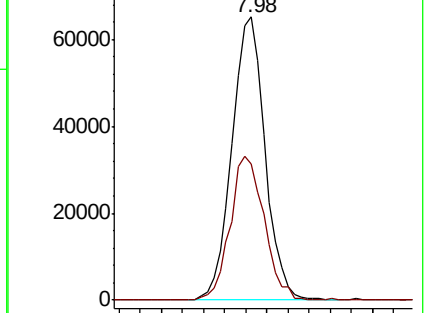
168 100

99 48.0 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: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063946.D

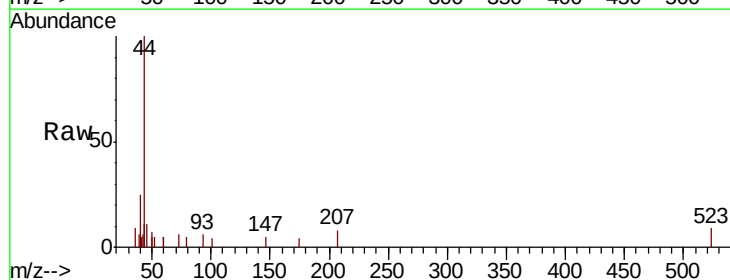
Acq: 11 Oct 2019 19:30

Tgt Ion: 50 Resp: 155

Ion Ratio Lower Upper

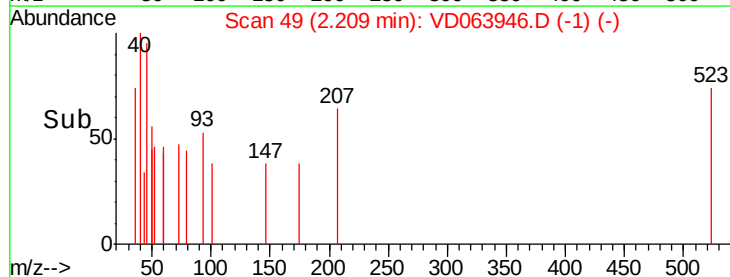
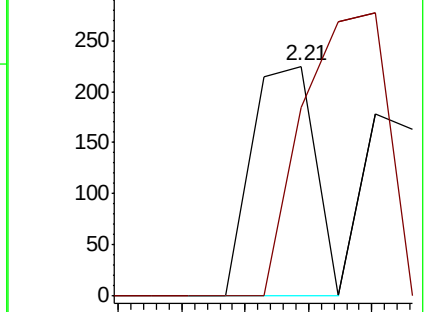
50 100

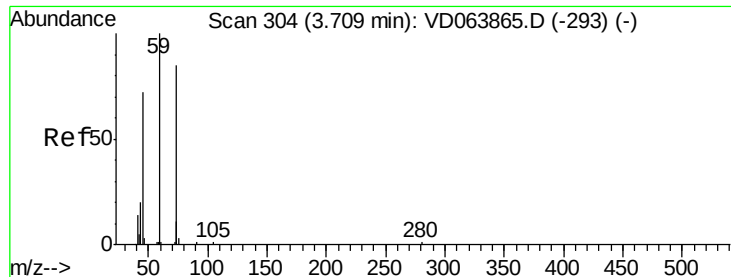
52 82.2 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#8

Diethyl Ether

Concen: 1.323 ug/l

RT: 3.71 min Scan# 304

Delta R.T. -0.00 min

Lab File: VD063946.D

Acq: 11 Oct 2019 19:30

Instrument :

MSVOA_D

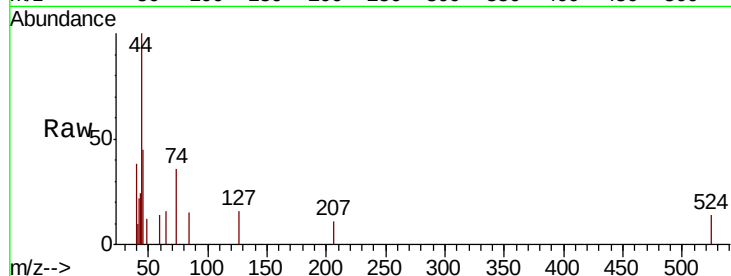
ClientSampleId :

Tot Ion: 74 Resp: 907

Ion Ratio Lower Upper

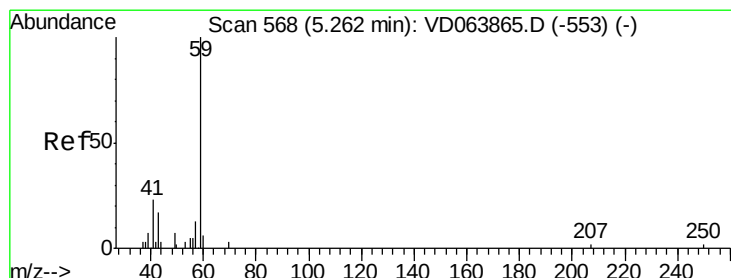
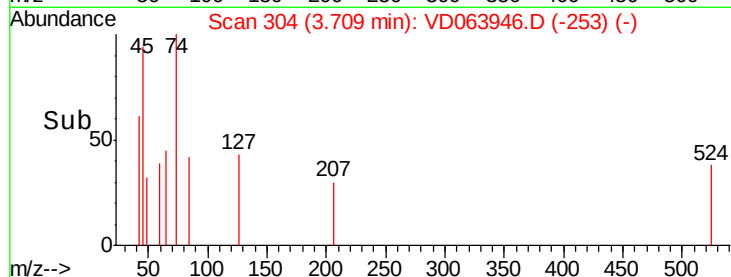
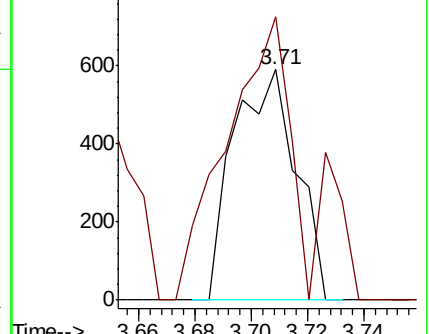
74 100

45 123.2 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.25 min Scan# 566

Delta R.T. -0.01 min

Lab File: VD063946.D

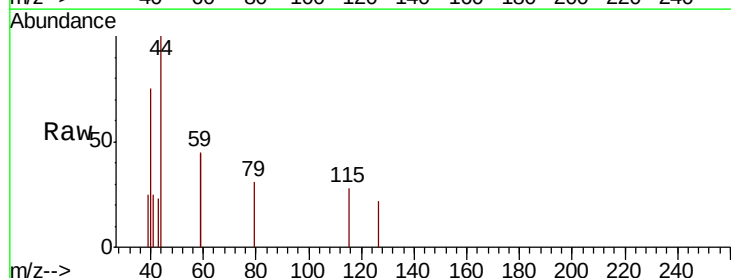
Acq: 11 Oct 2019 19:30

Tgt Ion: 59 Resp: 388

Ion Ratio Lower Upper

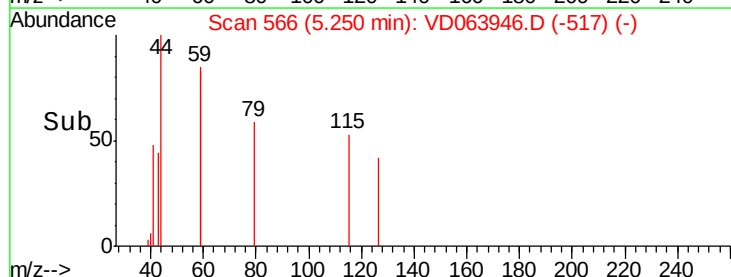
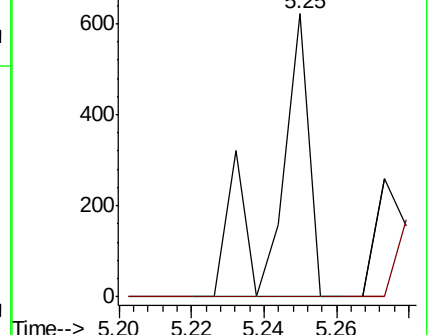
59 100

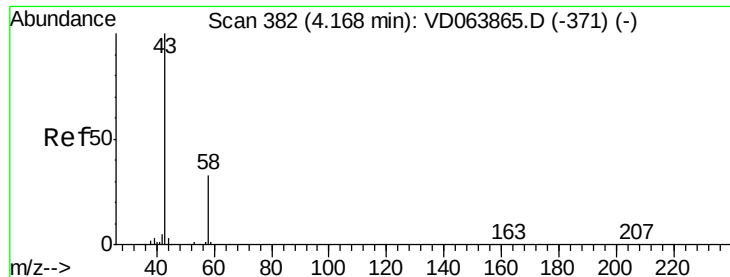
57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 29.261 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD063946.D

Acq: 11 Oct 2019 19:30

Instrument :

MSVOA_D

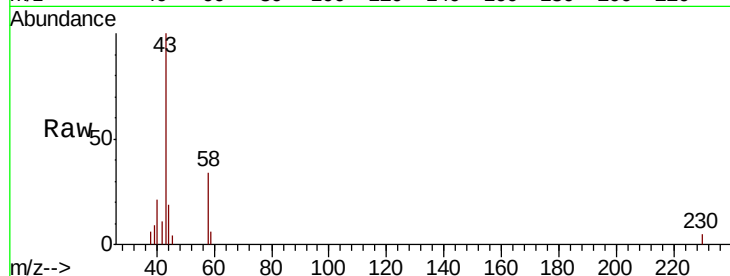
ClientSampleId :

Tot Ion: 43 Resp: 10450

Ion Ratio Lower Upper

43 100

58 39.9 26.2 39.4#



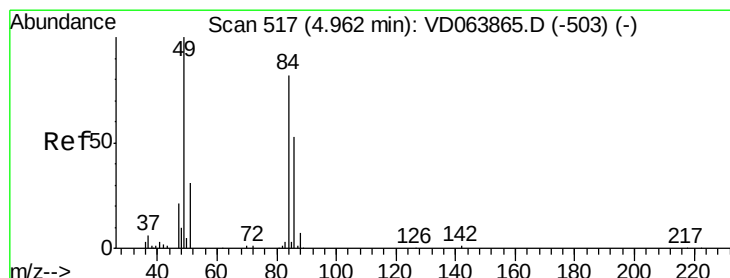
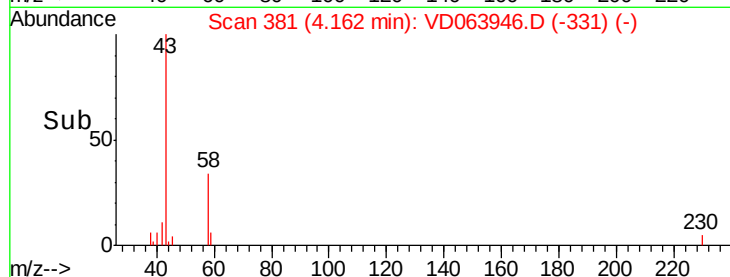
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

4.10 4.15 4.20 4.25

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD063946.D

Acq: 11 Oct 2019 19:30

Tgt Ion: 84 Resp: 2548

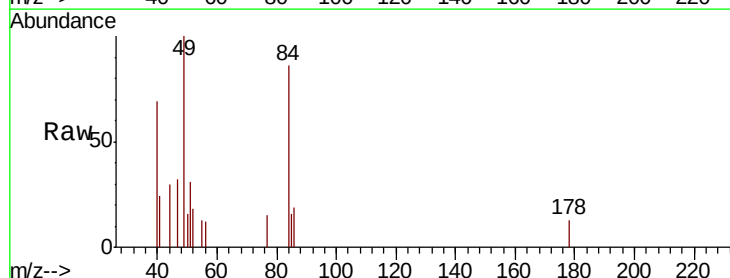
Ion Ratio Lower Upper

84 100

49 115.7 97.3 145.9

51 35.5 30.1 45.1

86 7.2 51.4 77.2#



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

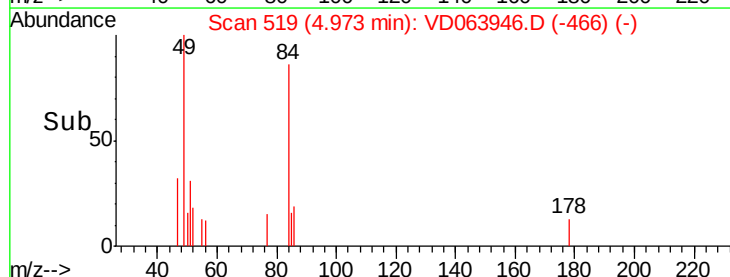
Ion 50.90 (50.60 to 51.60): VDC

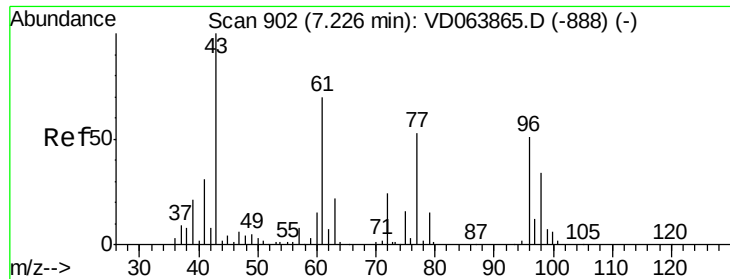
Ion 85.90 (85.60 to 86.60): VDC

4.97

4.90 4.95 5.00

Time-->

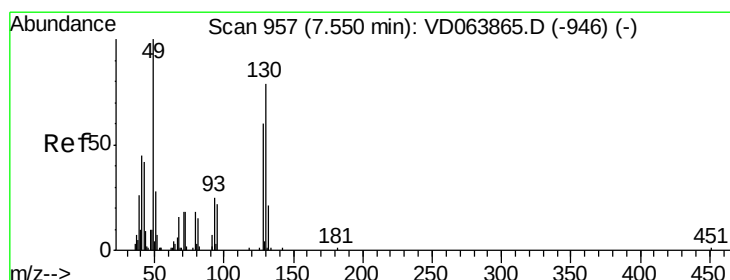
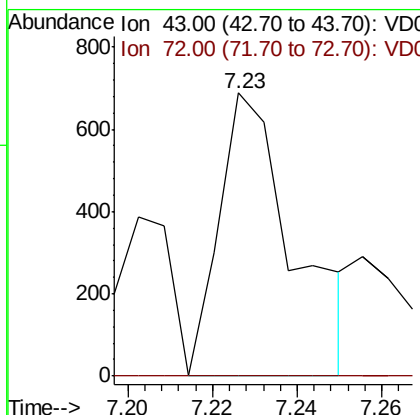
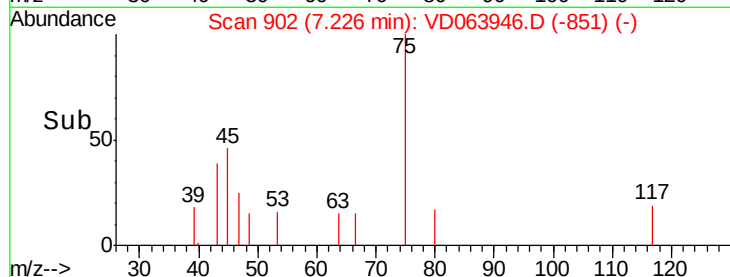
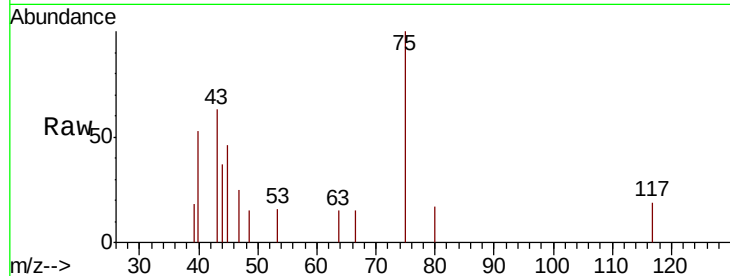




#25
2-Butanone
Concen: 1.985 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.00 min
Lab File: VD063946.D
Acq: 11 Oct 2019 19:30

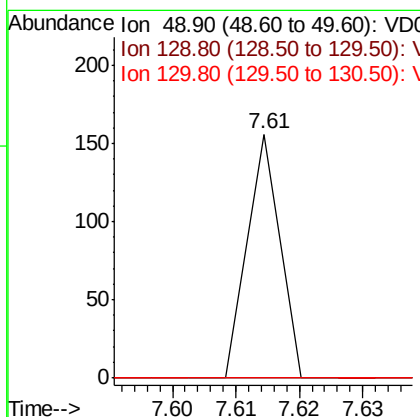
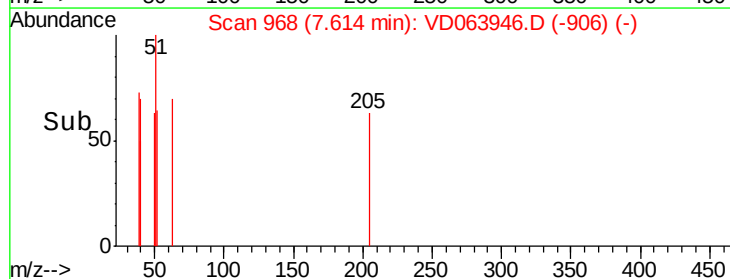
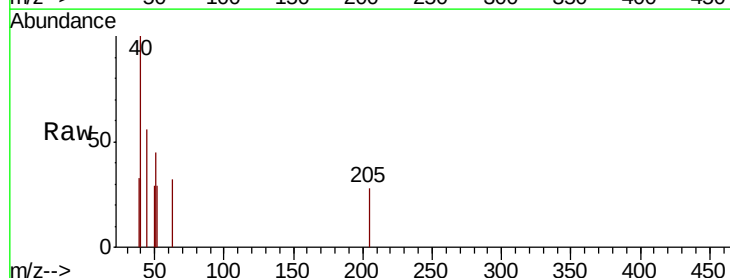
Instrument :
MSVOA_D
ClientSampled :

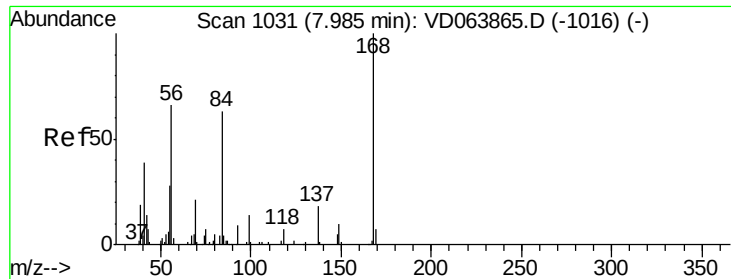
Tot Ion: 43 Resp: 840
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#28
Bromochloromethane
Concen: 1.921 ug/l
RT: 7.61 min Scan# 968
Delta R.T. 0.07 min
Lab File: VD063946.D
Acq: 11 Oct 2019 19:30

Tgt Ion: 49 Resp: 55
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 0.0 66.8 100.2#

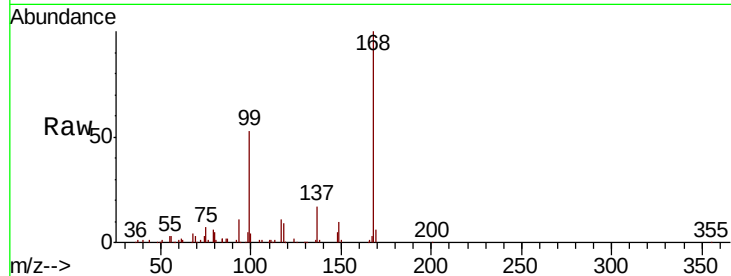




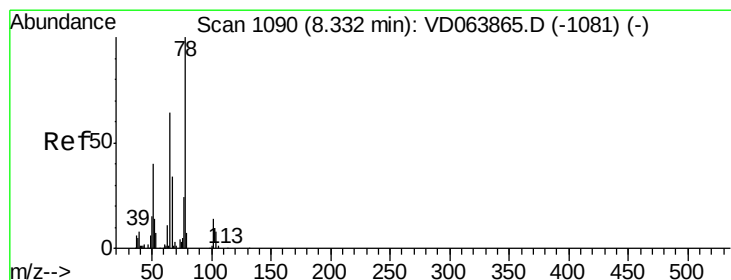
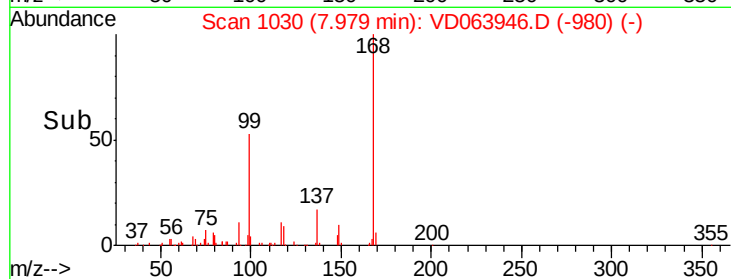
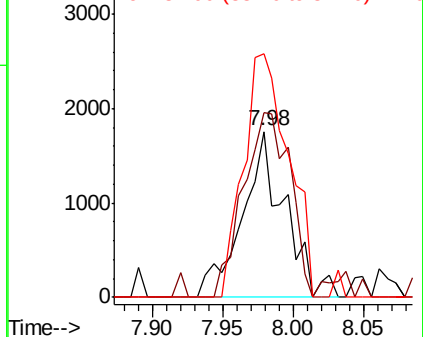
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD063946.D
Acq: 11 Oct 2019 19:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 3694
Ion Ratio Lower Upper
56 100
69 111.0 25.0 37.4#
84 146.5 76.3 114.5#

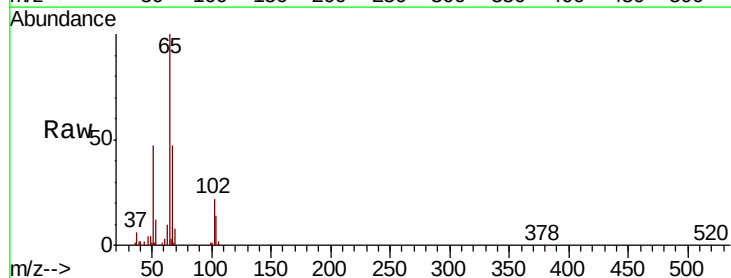


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

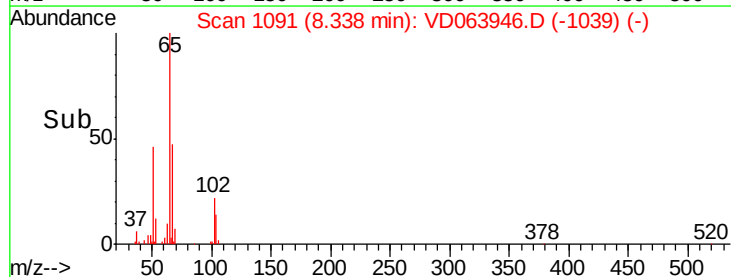
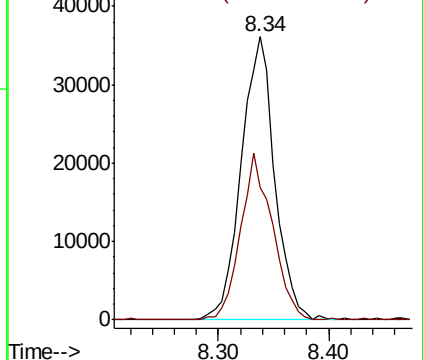


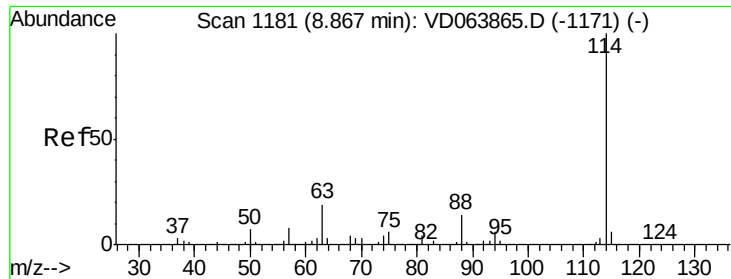
#33
1,2-Dichloroethane-d4
Concen: 55.980 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD063946.D
Acq: 11 Oct 2019 19:30

Tgt Ion: 65 Resp: 76789
Ion Ratio Lower Upper
65 100
67 56.0 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

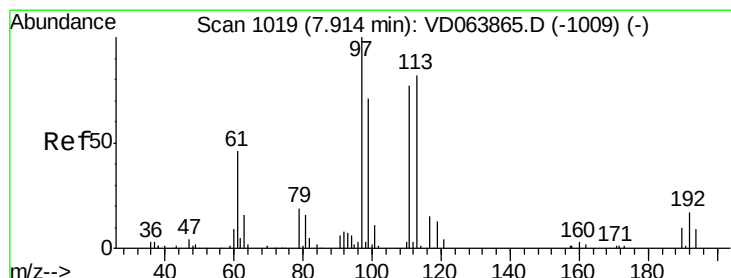
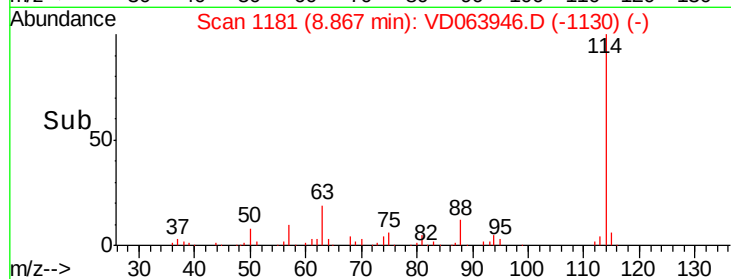
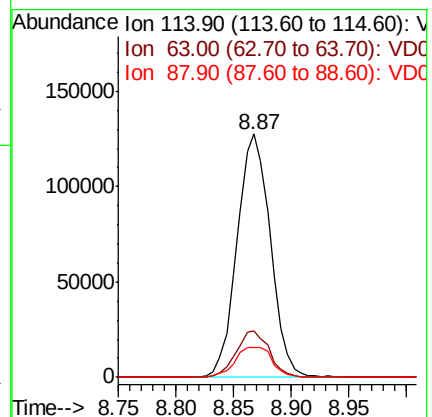
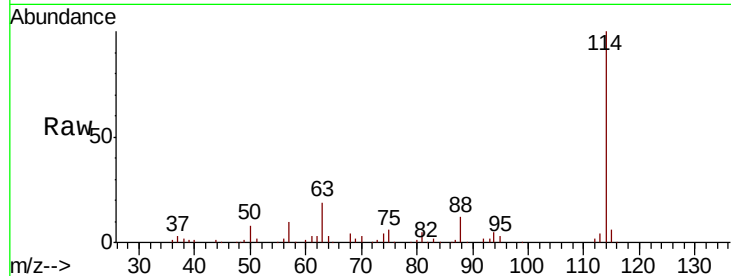




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD063946.D
Acq: 11 Oct 2019 19:30

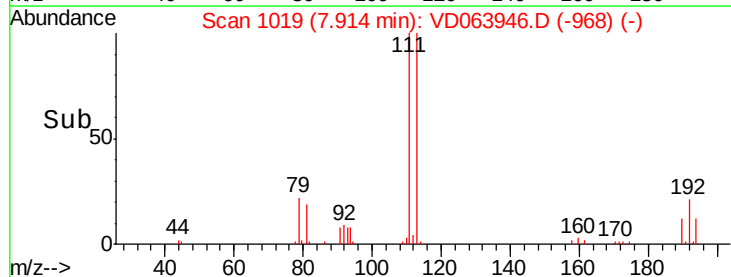
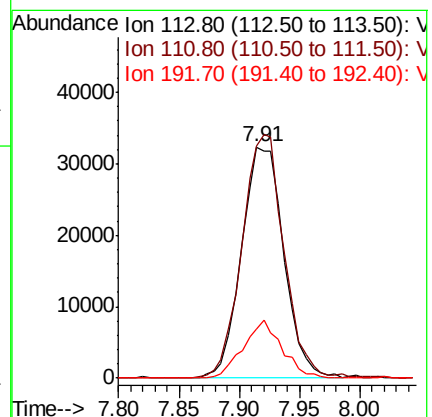
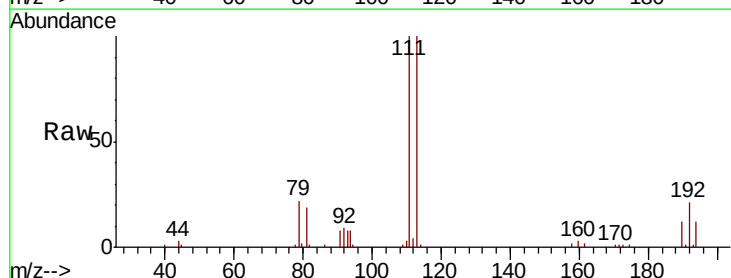
Instrument :
MSVOA_D
ClientSampleId :

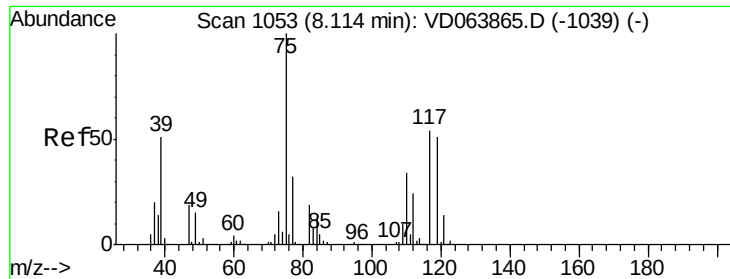
Tot Ion:114 Resp: 255542
Ion Ratio Lower Upper
114 100
63 19.0 0.0 38.4
88 12.3 0.0 27.4



#35
Dibromofluoromethane
Concen: 50.665 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VD063946.D
Acq: 11 Oct 2019 19:30

Tgt Ion:113 Resp: 79124
Ion Ratio Lower Upper
113 100
111 104.7 82.6 123.8
192 22.8 17.1 25.7

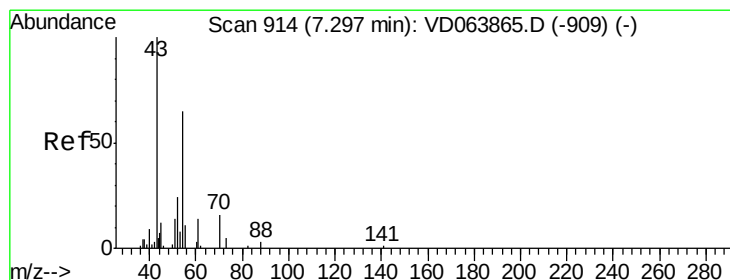
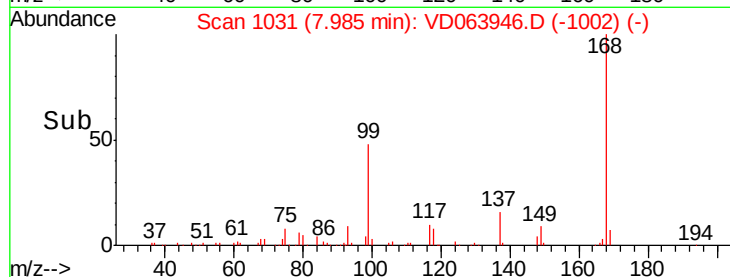
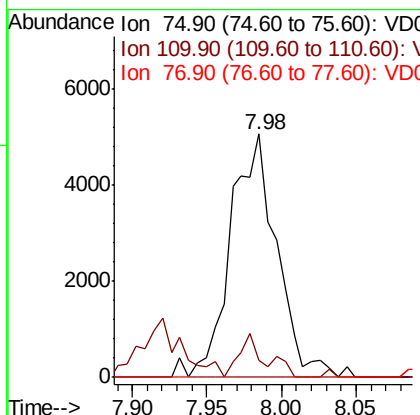
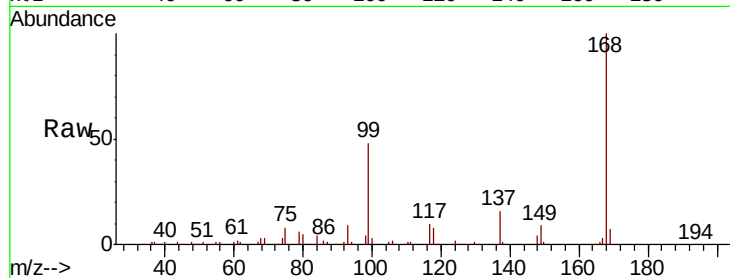




#36
 1,1-Dichloropropene
 Concen: 4.613 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD063946.D
 Acq: 11 Oct 2019 19:30

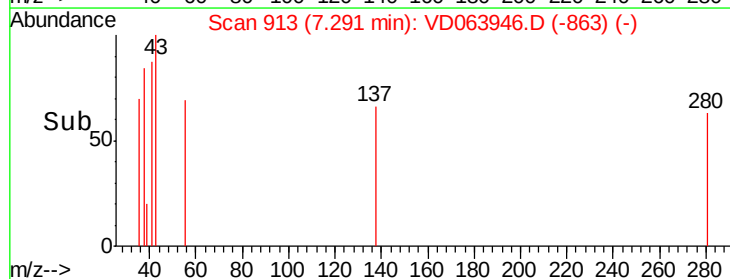
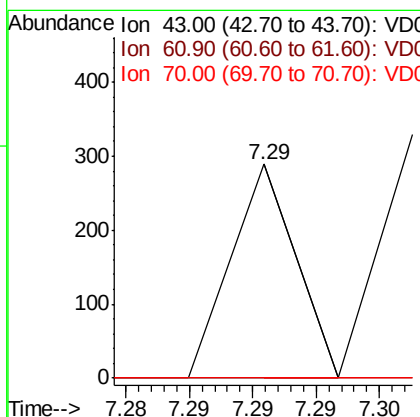
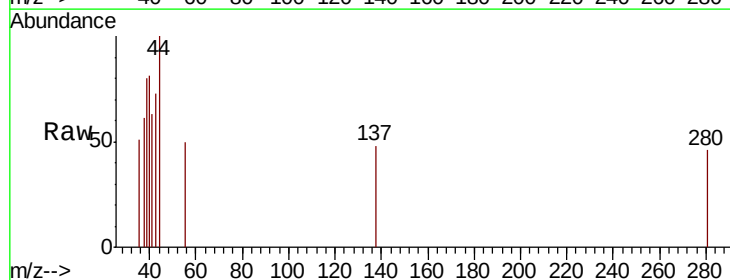
Instrument :
 MSVOA_D
 ClientSampleId :

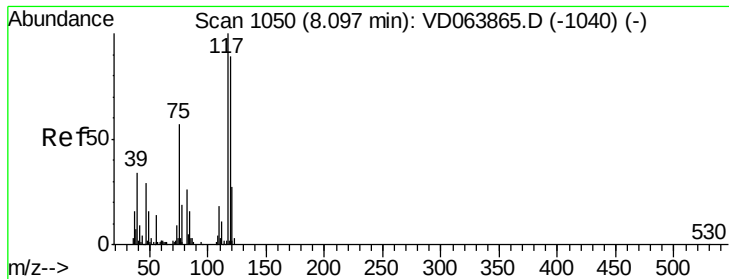
Tot Ion: 75 Resp: 10779
 Ion Ratio Lower Upper
 75 100
 110 7.5 17.4 52.3#
 77 0.0 25.4 38.0#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.29 min Scan# 913
 Delta R.T. -0.01 min
 Lab File: VD063946.D
 Acq: 11 Oct 2019 19:30

Tgt Ion: 43 Resp: 102
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 8.2 12.4#





#38

Carbon Tetrachloride

Concen: 6.328 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD063946.D

Acq: 11 Oct 2019 19:30

Instrument :

MSVOA_D

ClientSampleId :

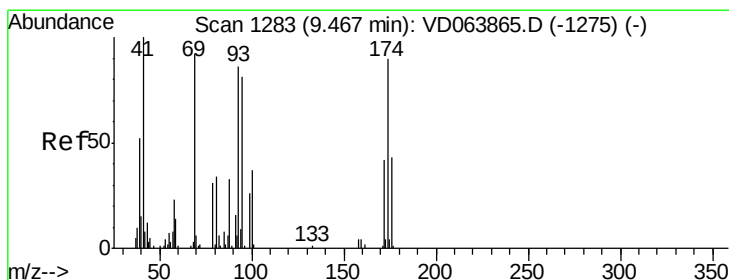
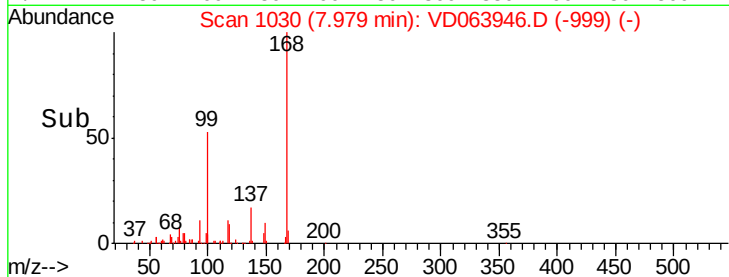
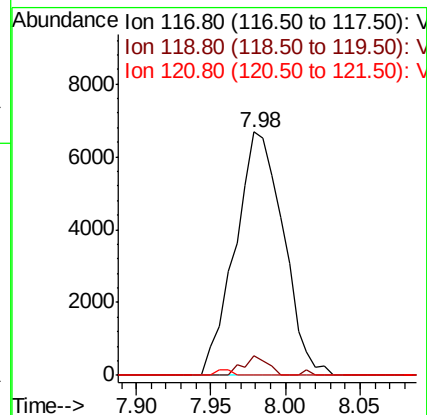
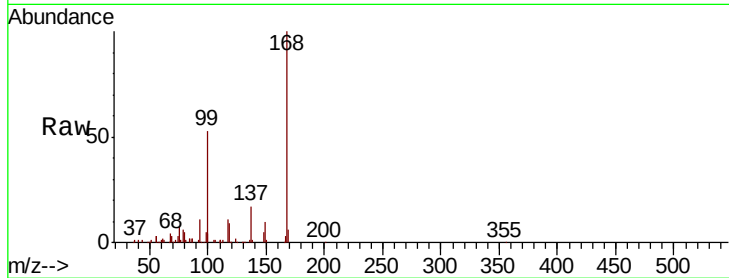
Tot Ion:117 Resp: 14942

Ion Ratio Lower Upper

117 100

119 7.8 70.8 106.2#

121 0.0 21.4 32.0#



#49

1,4-Dioxane

Concen: 6.201 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD063946.D

Acq: 11 Oct 2019 19:30

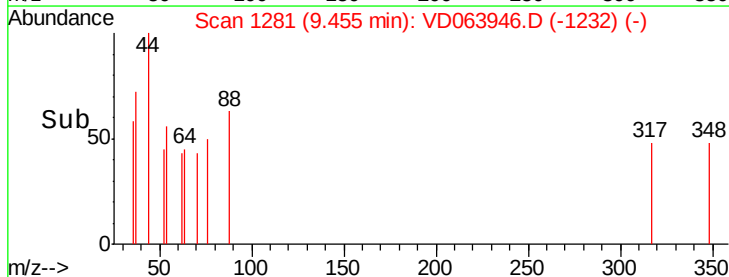
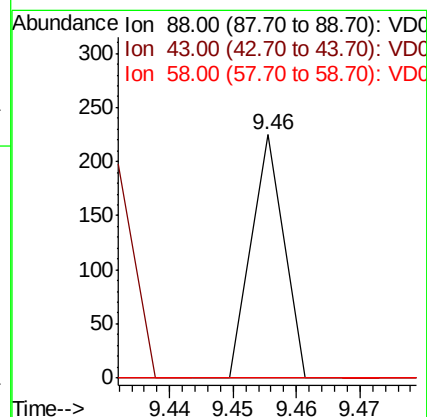
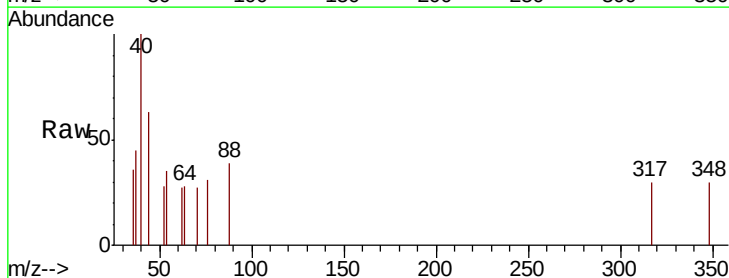
Tgt Ion: 88 Resp: 79

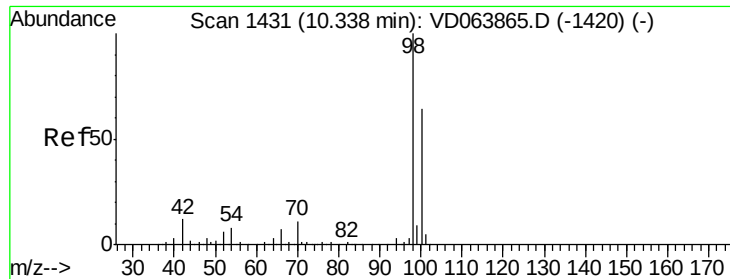
Ion Ratio Lower Upper

88 100

43 0.0 27.6 41.4#

58 0.0 54.1 81.1#

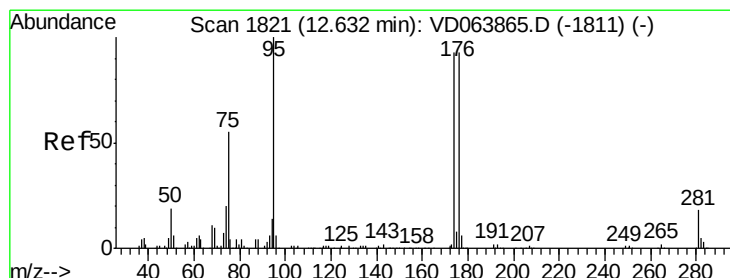
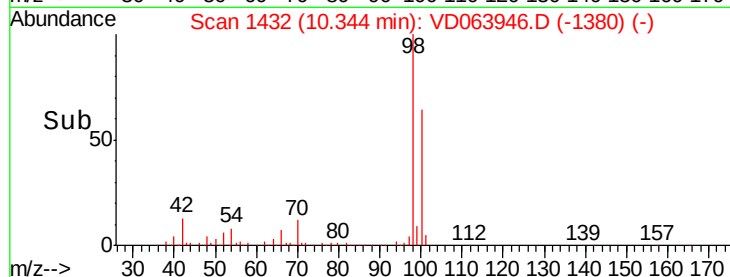
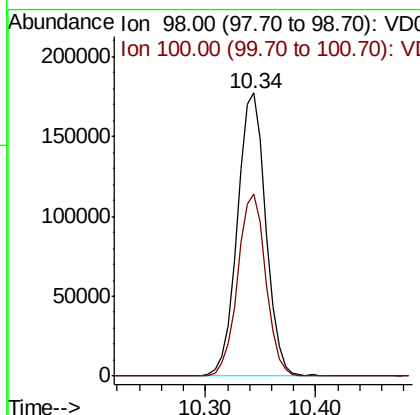
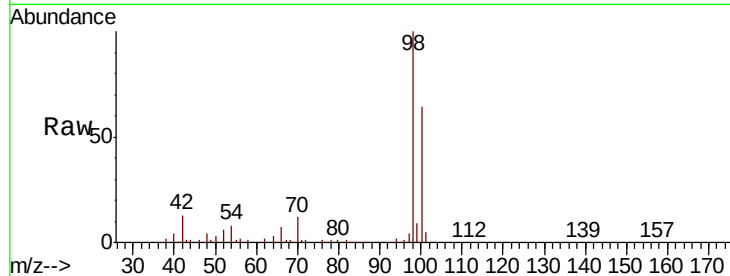




#50
Toluene-d8
Concen: 50.531 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD063946.D
Acq: 11 Oct 2019 19:30

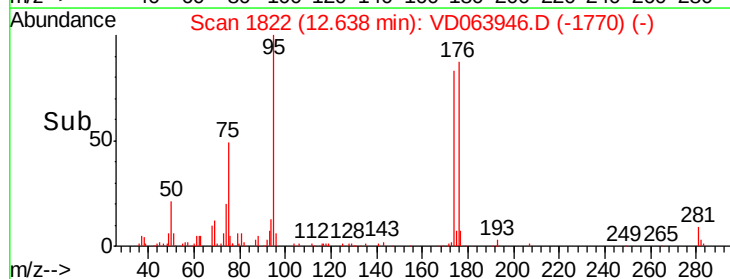
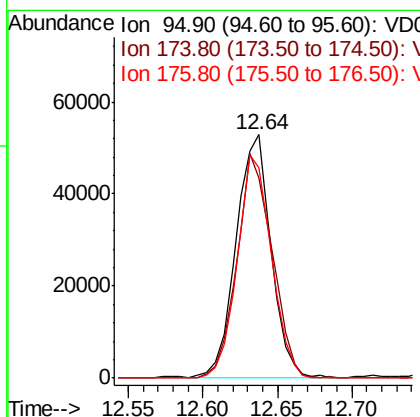
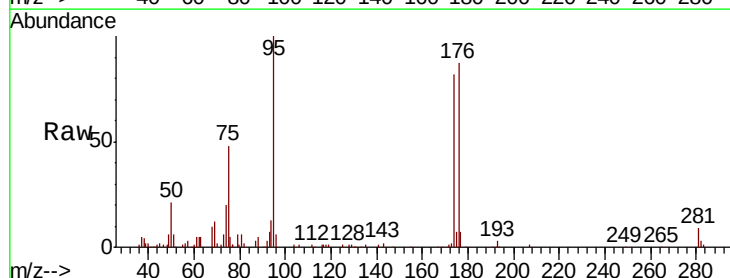
Instrument :
MSVOA_D
ClientSampleId :

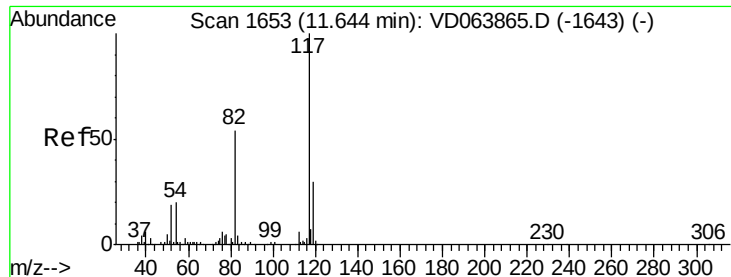
Tot Ion: 98 Resp: 320301
Ion Ratio Lower Upper
98 100
100 63.6 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 39.154 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD063946.D
Acq: 11 Oct 2019 19:30

Tgt Ion: 95 Resp: 86245
Ion Ratio Lower Upper
95 100
174 92.0 0.0 186.4
176 89.2 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: VD063946.D

Acq: 11 Oct 2019 19:30

Instrument :

MSVOA_D

ClientSampleId :

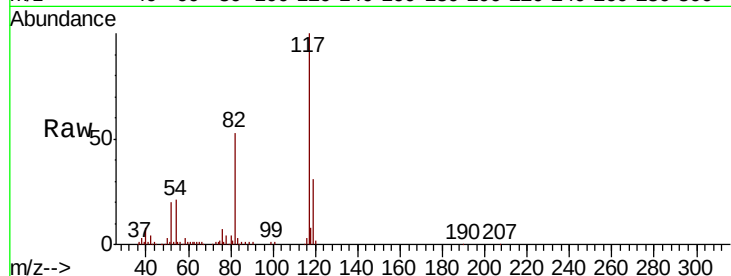
Tot Ion:117 Resp: 228358

Ion Ratio Lower Upper

117 100

82 52.6 42.8 64.2

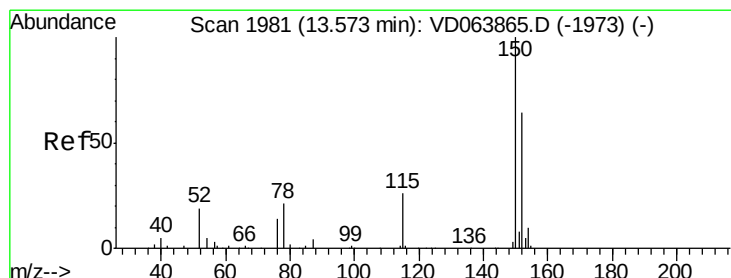
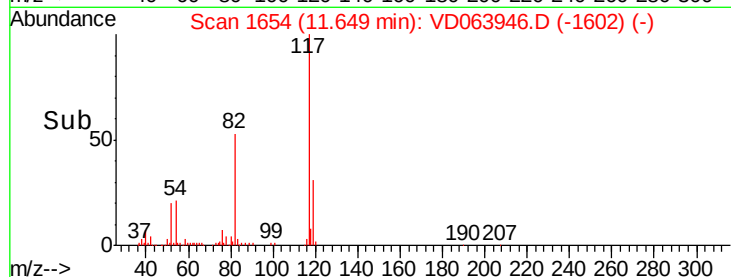
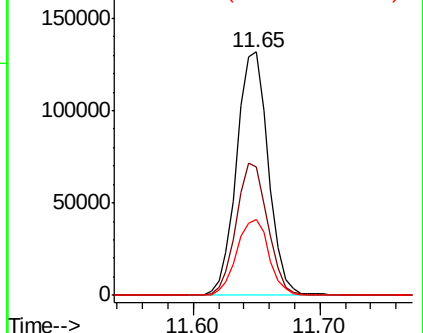
119 31.4 24.4 36.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD063946.D

Acq: 11 Oct 2019 19:30

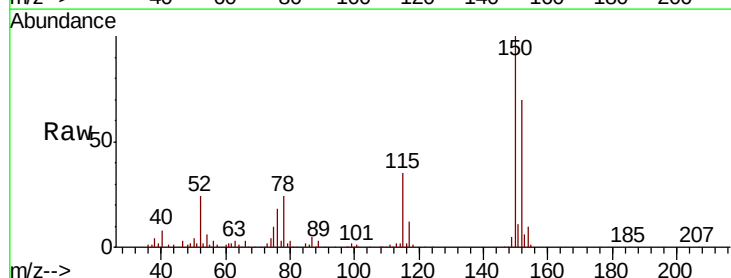
Tgt Ion:152 Resp: 89930

Ion Ratio Lower Upper

152 100

115 54.9 25.9 77.7

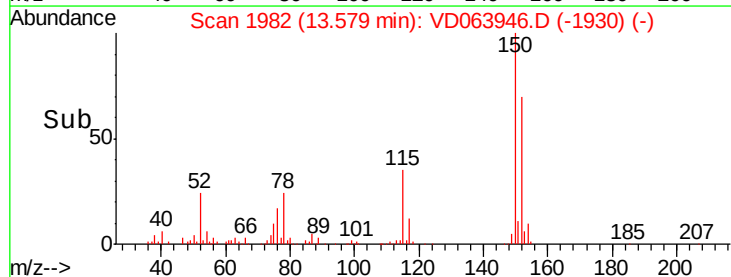
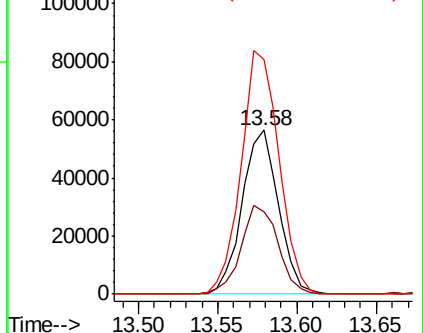
150 154.5 0.0 344.2

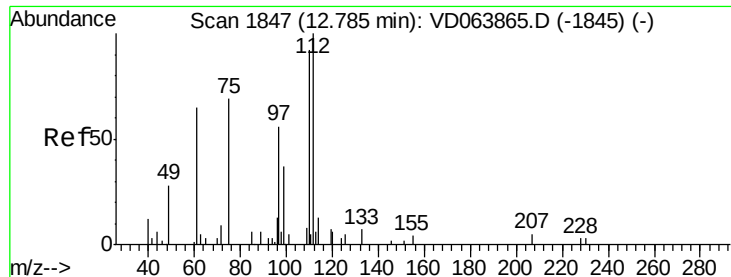


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 75.222 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063946.D

Acq: 11 Oct 2019 19:30

Instrument :

MSVOA_D

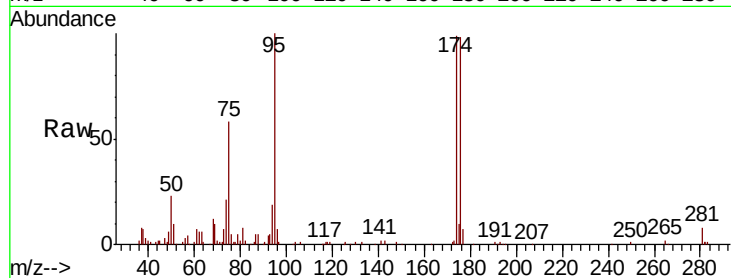
ClientSampleId :

Tot Ion: 75 Resp: 45308

Ion Ratio Lower Upper

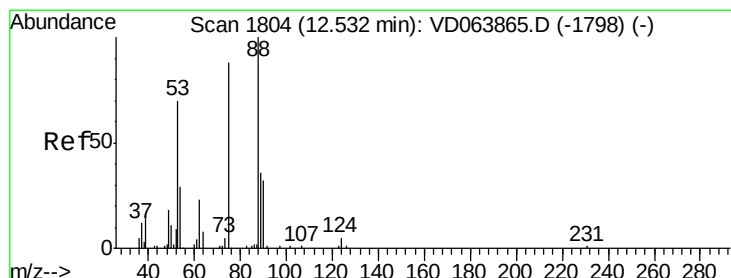
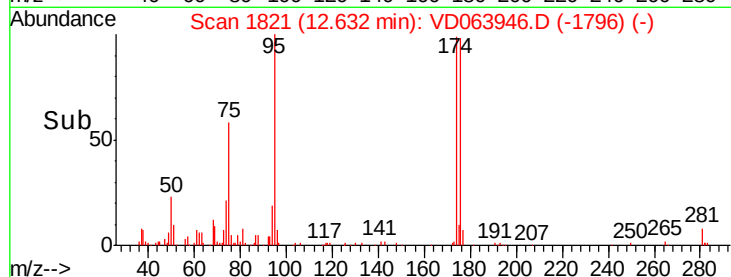
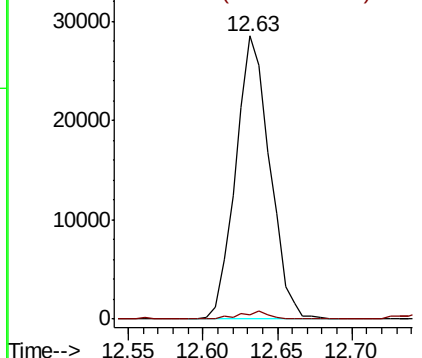
75 100

77 2.2 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: 133.112 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063946.D

Acq: 11 Oct 2019 19:30

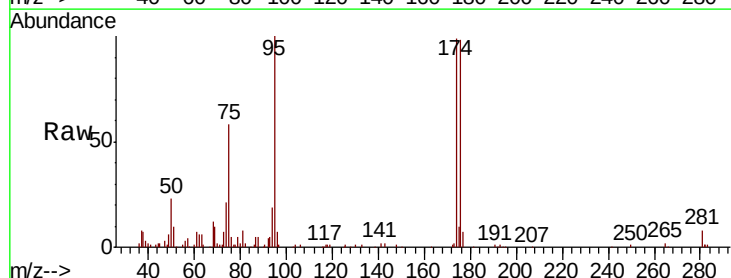
Tgt Ion: 75 Resp: 45308

Ion Ratio Lower Upper

75 100

53 0.1 75.0 112.6#

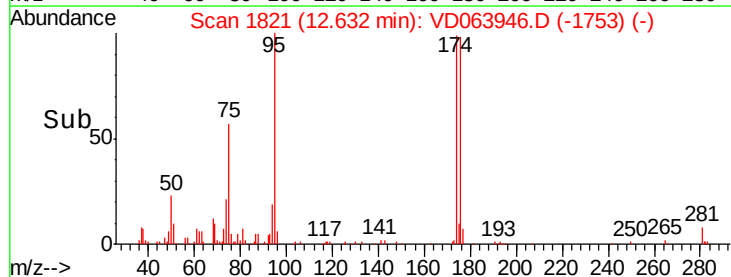
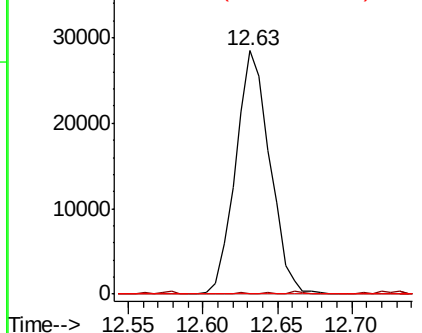
89 0.0 38.2 57.4#

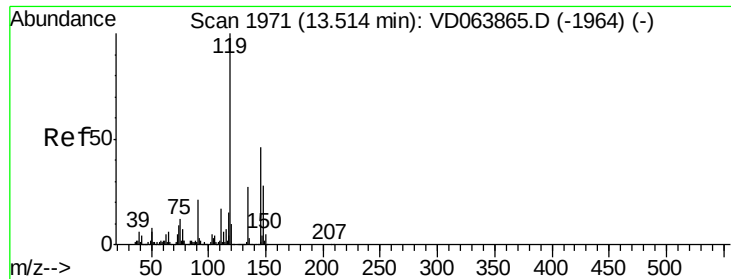


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

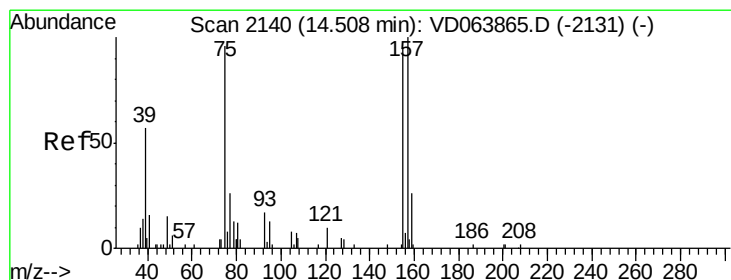
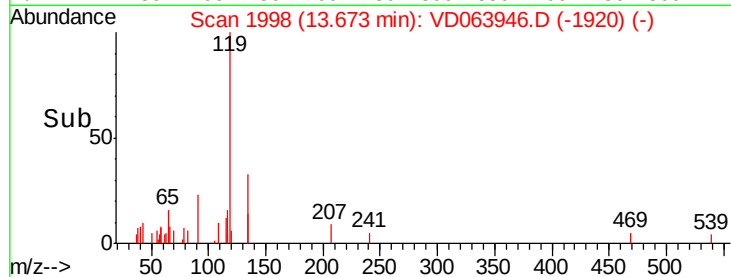
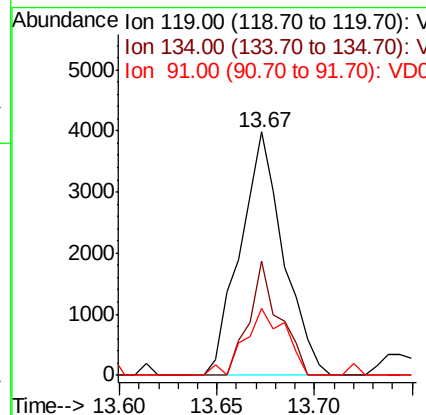
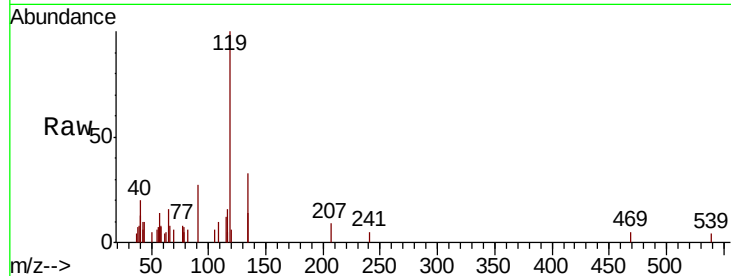




#86
 p-Isopropyltoluene
 Concen: 1.066 ug/l
 RT: 13.67 min Scan# 1998
 Delta R.T. 0.16 min
 Lab File: VD063946.D
 Acq: 11 Oct 2019 19:30

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 119 Resp: 6115
 Ion Ratio Lower Upper
 119 100
 134 33.0 13.9 41.6
 91 25.6 11.2 33.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.50 min Scan# 2139
 Delta R.T. -0.01 min
 Lab File: VD063946.D
 Acq: 11 Oct 2019 19:30

Tgt Ion: 75 Resp: 55
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.9 131.6#
 157 0.0 56.0 167.9#

