

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\
 Data File : VD063103.D
 Acq On : 16 Jul 2019 13:43
 Operator : VA/AP
 Sample : K3620-03
 Misc : 7.58g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-01-071219-B

Quant Time: Jul 17 07:35:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	632202	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	847341	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	681984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	259058	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	377519	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
35) Dibromofluoromethane	6.92	113	410025	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
50) Toluene-d8	10.40	98	815641	44.99	ug/l	0.00
Spiked Amount			Recovery	=	89.98%	
62) 4-Bromofluorobenzene	13.54	95	325820	38.85	ug/l	0.00
Spiked Amount			Recovery	=	77.70%	

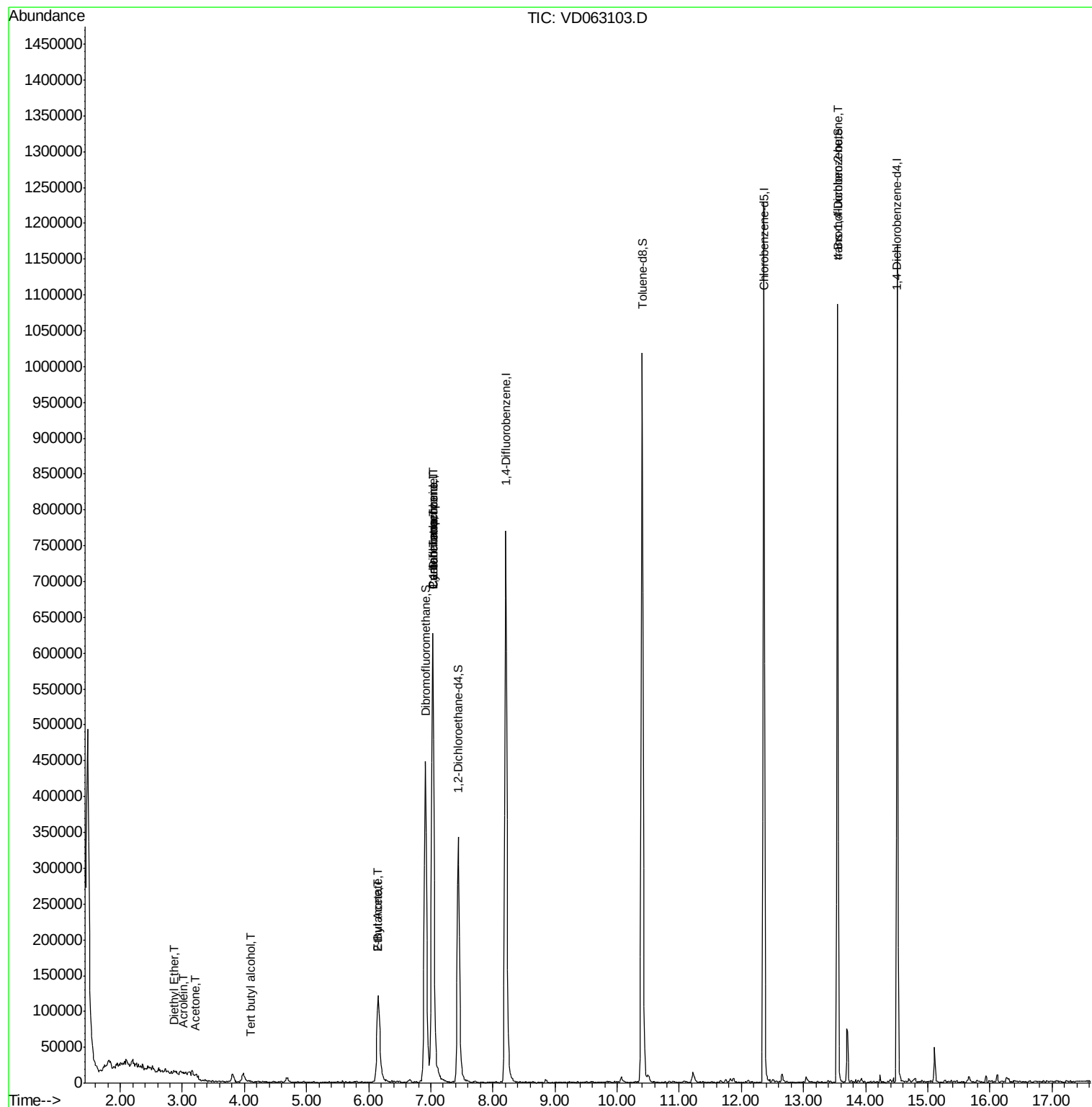
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	1204	Below Cal	#	43
3) Chloromethane	1.73	50	204	Below Cal	#	48
5) Bromomethane	2.17	94	3886	Below Cal	#	38
8) Diethyl Ether	2.87	74	2021	1.052	ug/l	61
11) Tert butyl alcohol	4.09	59	2493	5.485	ug/l #	77
13) Acrolein	3.01	56	196	1.429	ug/l #	22
16) Acetone	3.21	43	17069	8.974	ug/l #	82
18) Methyl Acetate	3.63	43	1545	Below Cal	#	63
25) 2-Butanone	6.15	43	10365	5.706	ug/l #	61
31) Cyclohexane	7.03	56	13755	1.835	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	47672	5.002	ug/l #	48
37) Ethyl Acetate	6.15	43	10365	2.541	ug/l #	1
38) Carbon Tetrachloride	7.04	117	61006	4.213	ug/l #	13
81) trans-1,4-Dichloro-2-buten	13.54	75	144799	137.981	ug/l #	1

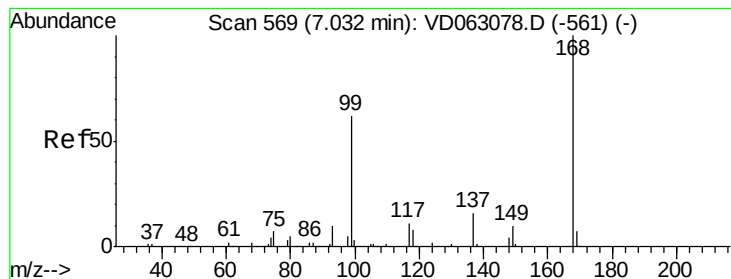
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

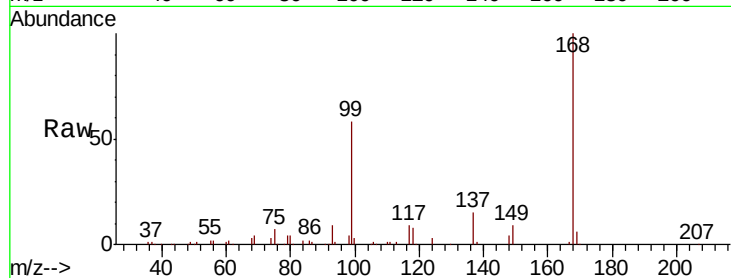
CL-01-071219-B

Tot Ion:168 Resp: 632202

Ion Ratio Lower Upper

168 100

99 57.9 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

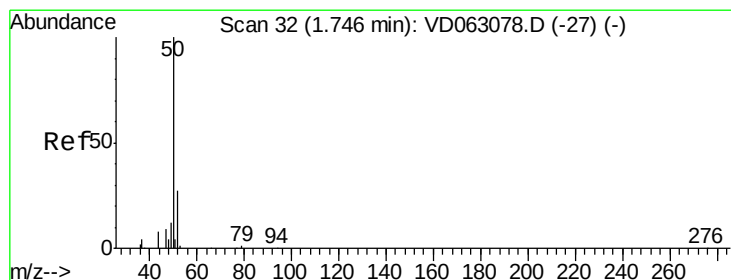
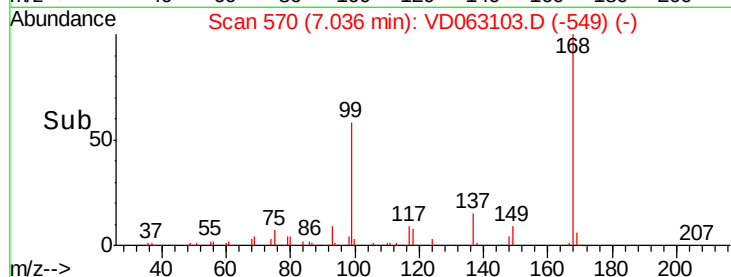
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.73 min Scan# 31

Delta R.T. -0.02 min

Lab File: VD063103.D

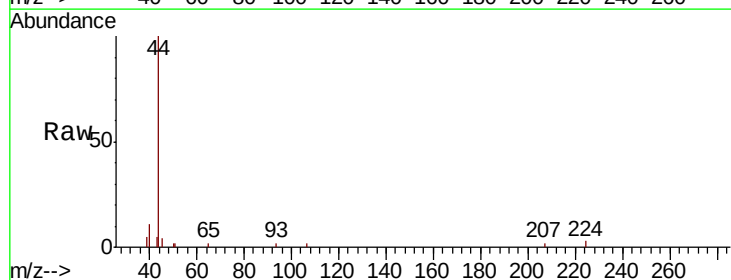
Acq: 16 Jul 2019 13:43

Tgt Ion: 50 Resp: 204

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

500

400

300

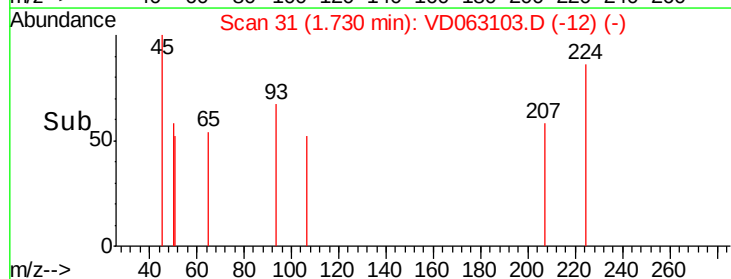
200

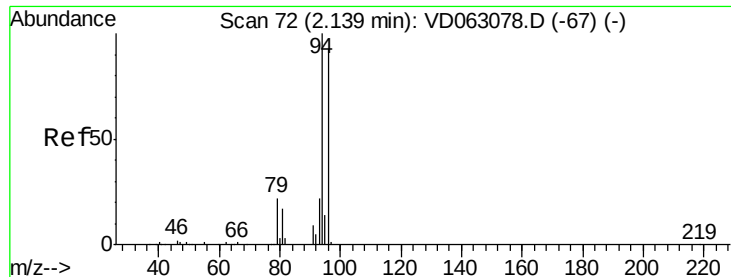
100

0

1.70 1.72 1.74

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.17 min Scan# 76

Delta R.T. 0.03 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

CL-01-071219-B

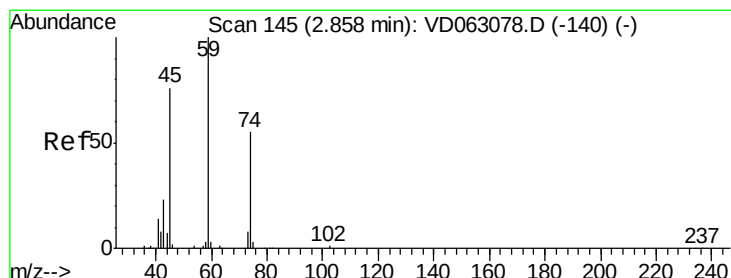
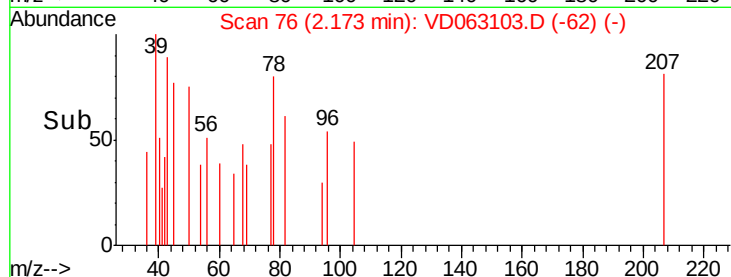
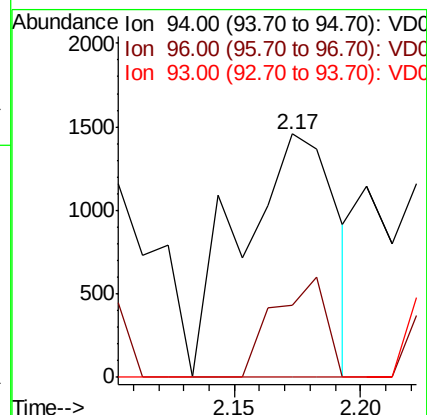
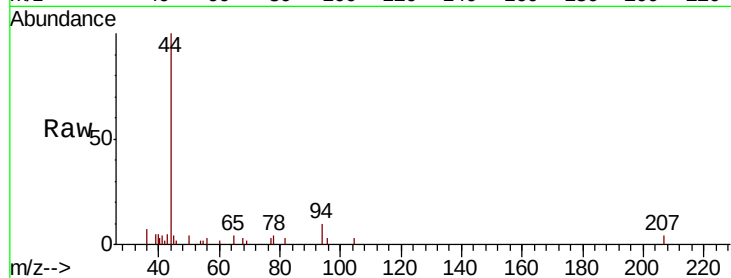
Tot Ion: 94 Resp: 3886

Ion Ratio Lower Upper

94 100

96 29.5 74.2 111.2#

93 0.0 17.8 26.6#



#8

Diethyl Ether

Concen: 1.052 ug/l

RT: 2.87 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD063103.D

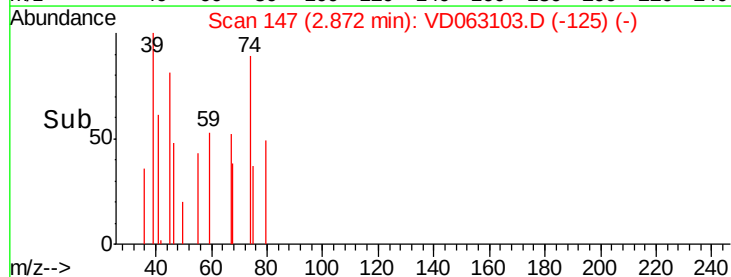
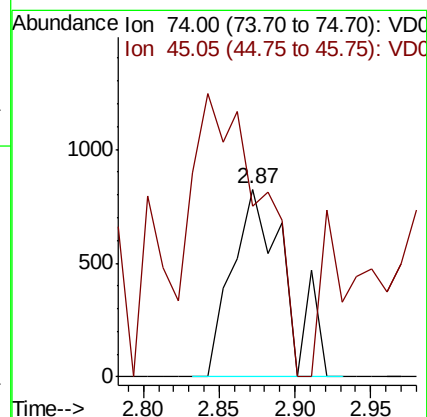
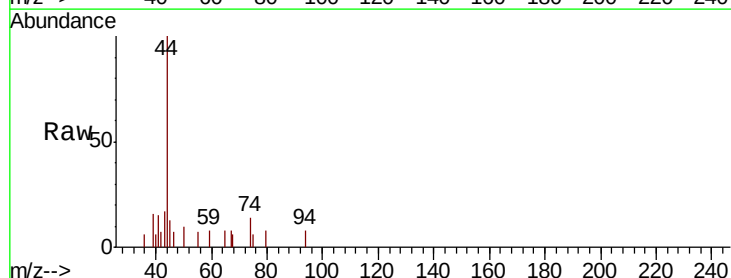
Acq: 16 Jul 2019 13:43

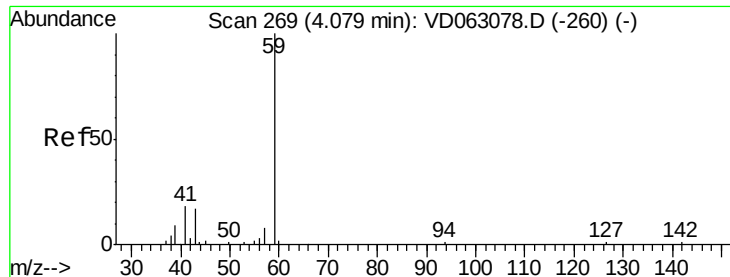
Tgt Ion: 74 Resp: 2021

Ion Ratio Lower Upper

74 100

45 91.3 69.5 208.7

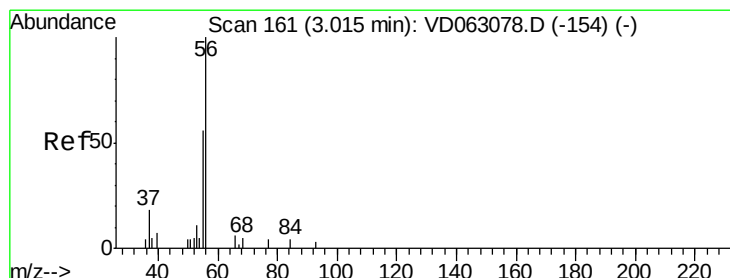
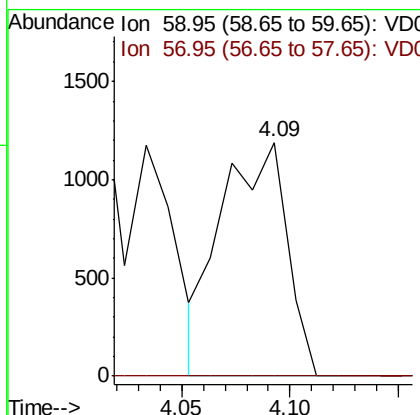
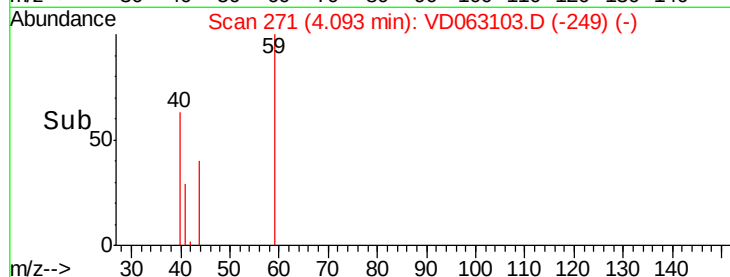
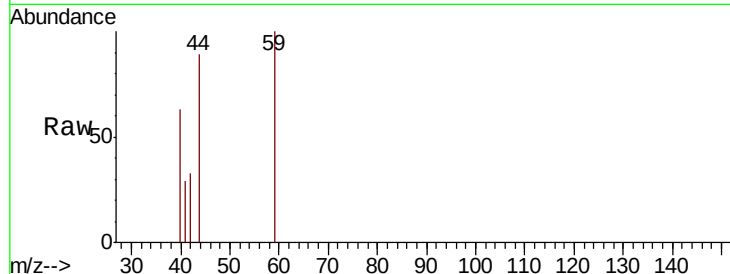




#11
Tert butyl alcohol
Concen: 5.485 ug/l
RT: 4.09 min Scan# 271
Delta R.T. 0.01 min
Lab File: VD063103.D
Acq: 16 Jul 2019 13:43

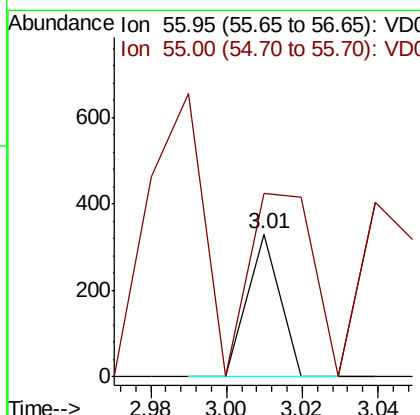
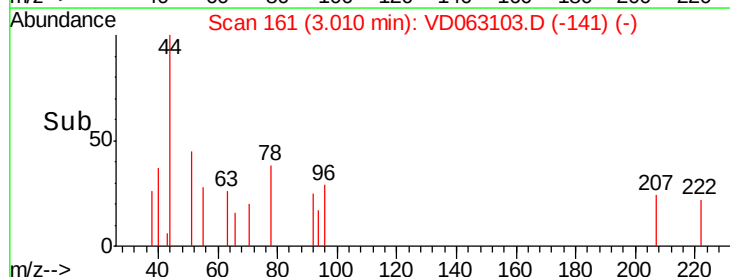
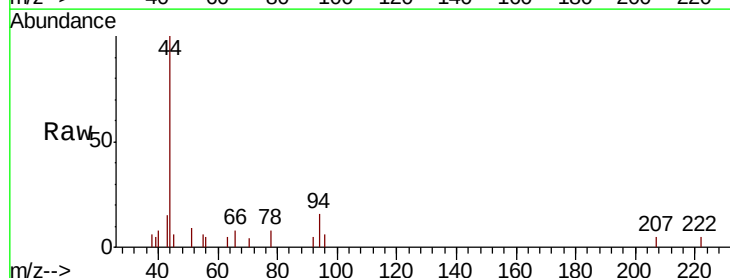
Instrument :
MSVOA_D
ClientSampleId :
CL-01-071219-B

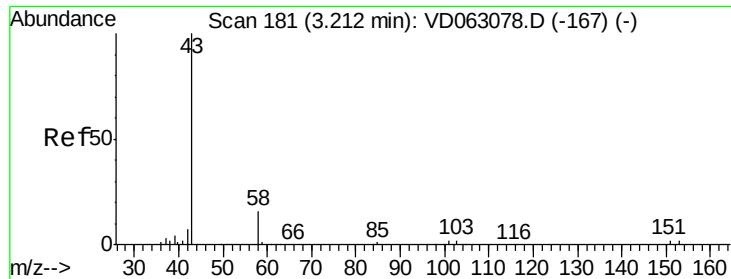
Tot Ion: 59 Resp: 2493
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



#13
Acrolein
Concen: 1.429 ug/l
RT: 3.01 min Scan# 161
Delta R.T. -0.01 min
Lab File: VD063103.D
Acq: 16 Jul 2019 13:43

Tgt Ion: 56 Resp: 196
Ion Ratio Lower Upper
56 100
55 128.1 53.0 79.4#





#16

Acetone

Concen: 8.974 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

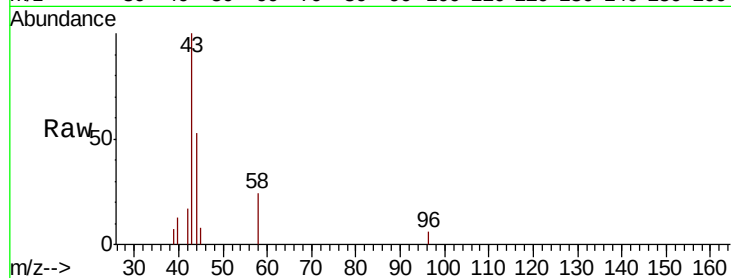
CL-01-071219-B

Tot Ion: 43 Resp: 17069

Ion Ratio Lower Upper

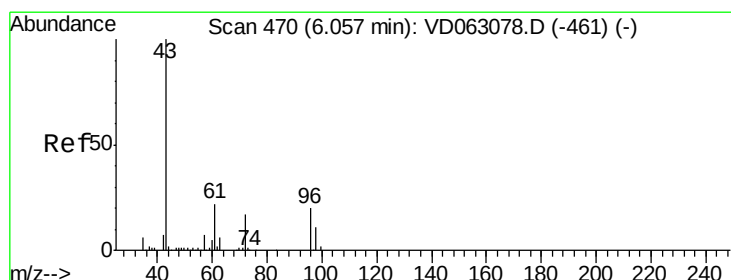
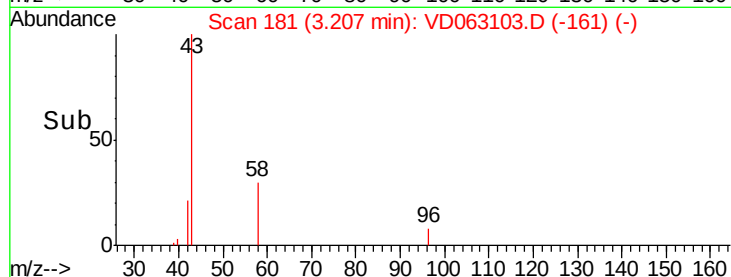
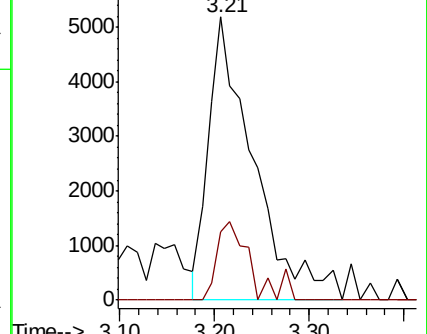
43 100

58 23.9 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#25

2-Butanone

Concen: 5.706 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.09 min

Lab File: VD063103.D

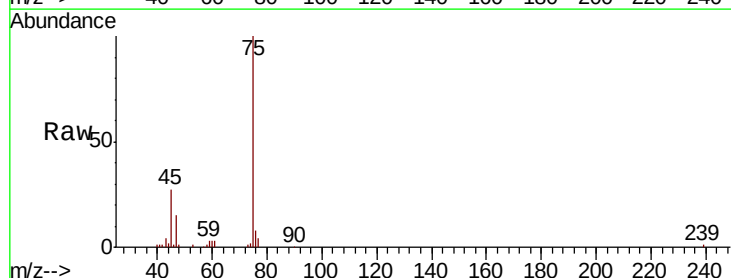
Acq: 16 Jul 2019 13:43

Tgt Ion: 43 Resp: 10365

Ion Ratio Lower Upper

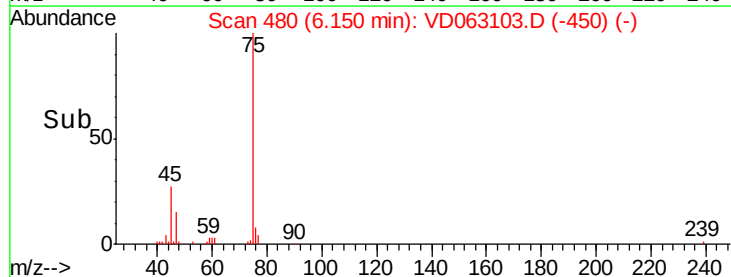
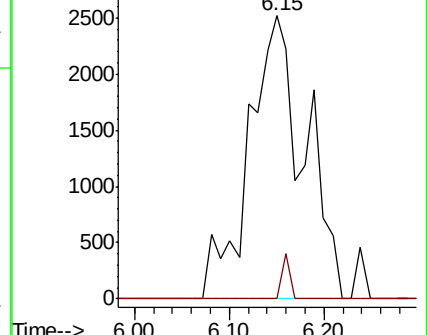
43 100

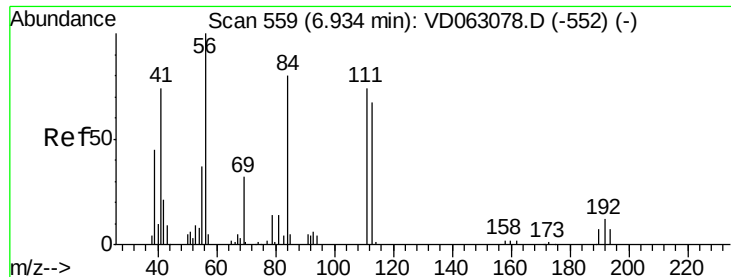
72 0.0 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

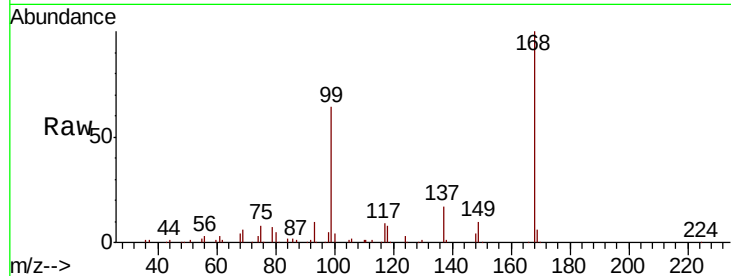




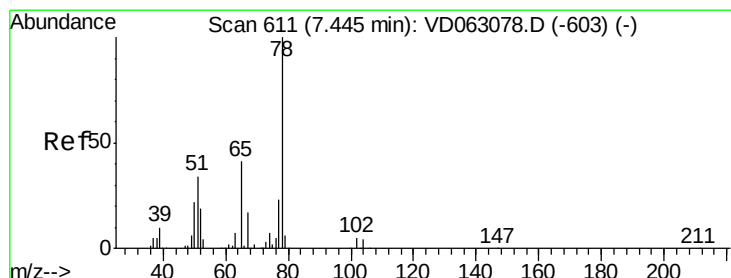
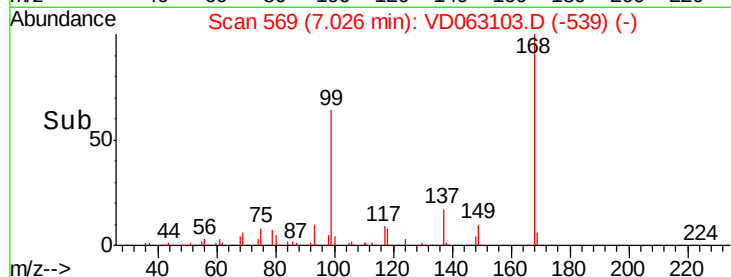
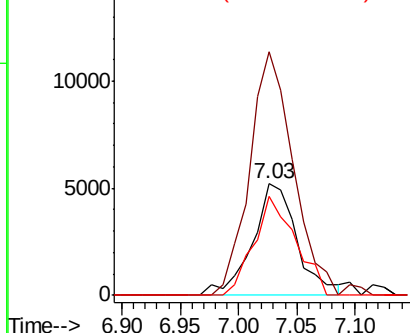
#31
Cyclohexane
Concen: 1.835 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.09 min
Lab File: VD063103.D
Acq: 16 Jul 2019 13:43

Instrument :
MSVOA_D
ClientSampleId :
CL-01-071219-B

Tot Ion: 56 Resp: 13755
Ion Ratio Lower Upper
56 100
69 218.3 25.3 37.9#
84 89.3 64.2 96.4

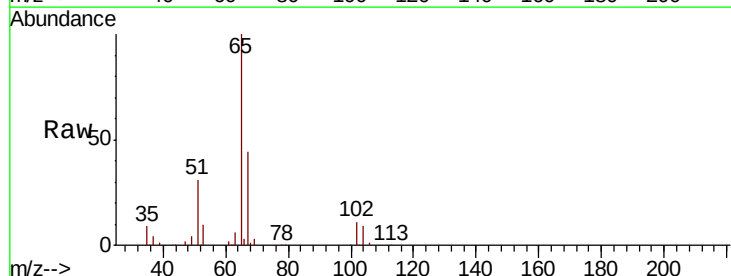


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

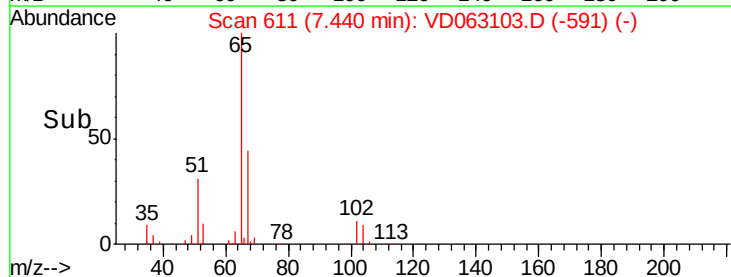
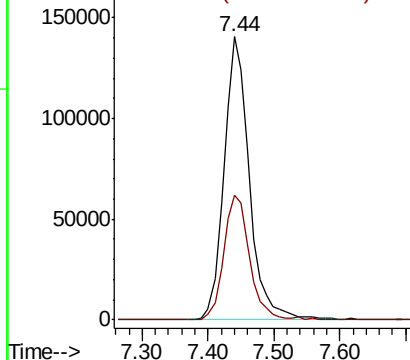


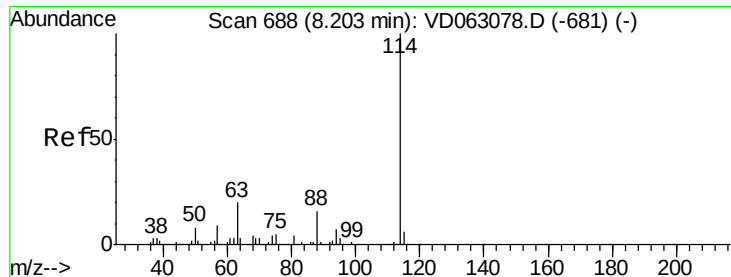
#33
1,2-Dichloroethane-d4
Concen: 47.937 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.01 min
Lab File: VD063103.D
Acq: 16 Jul 2019 13:43

Tgt Ion: 65 Resp: 377519
Ion Ratio Lower Upper
65 100
67 44.1 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

CL-01-071219-B

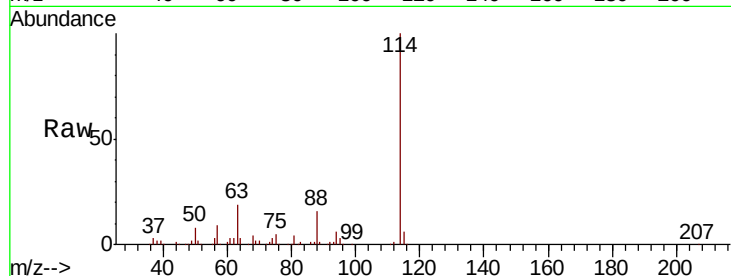
Tot Ion:114 Resp: 847341

Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.6

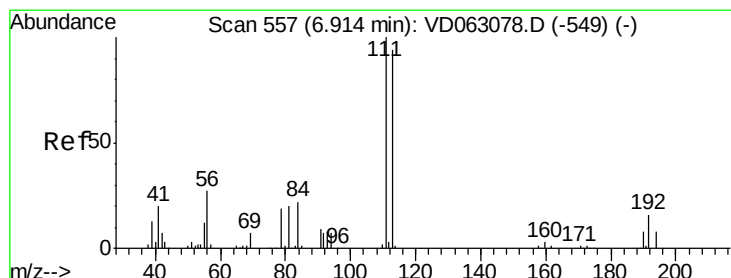
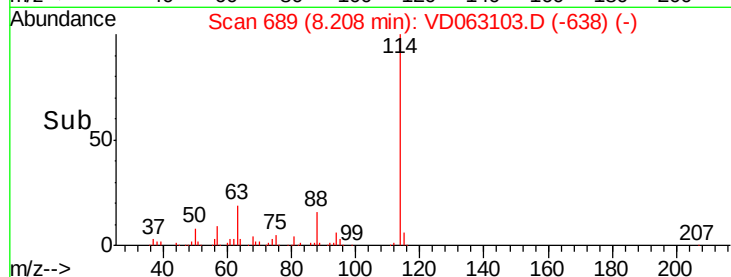
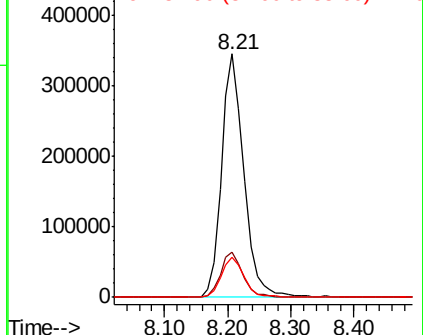
88 16.3 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 48.583 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

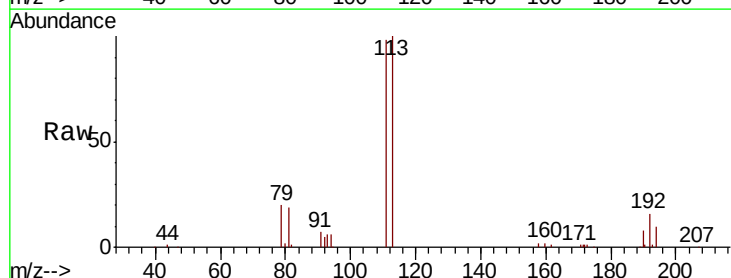
Tgt Ion:113 Resp: 410025

Ion Ratio Lower Upper

113 100

111 97.6 84.8 127.2

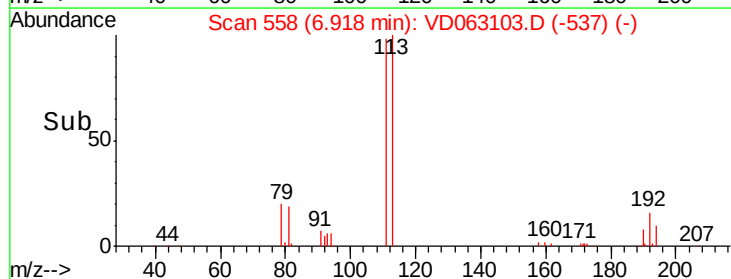
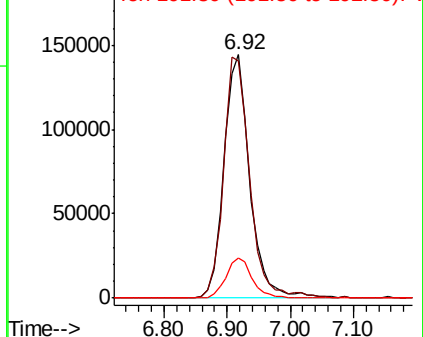
192 16.5 13.4 20.0

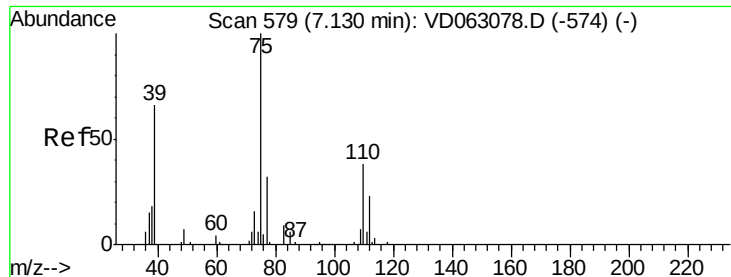


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

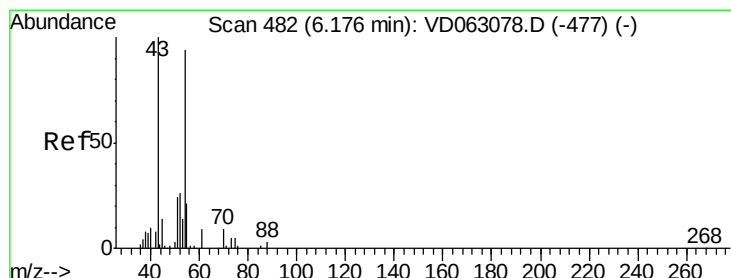
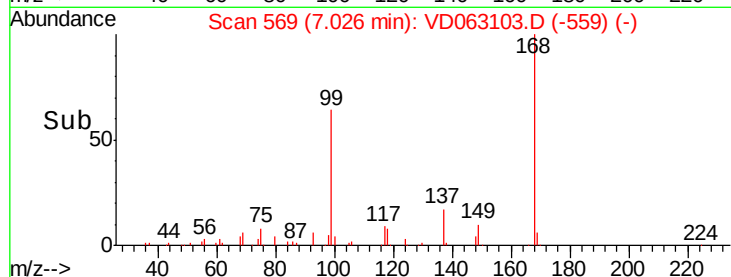
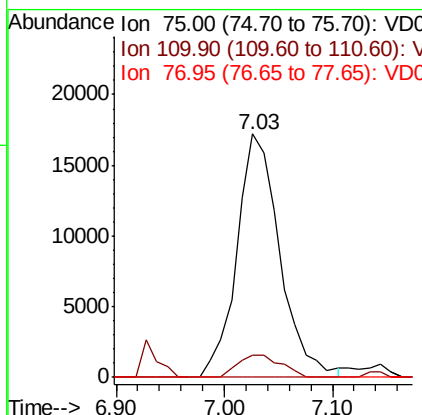
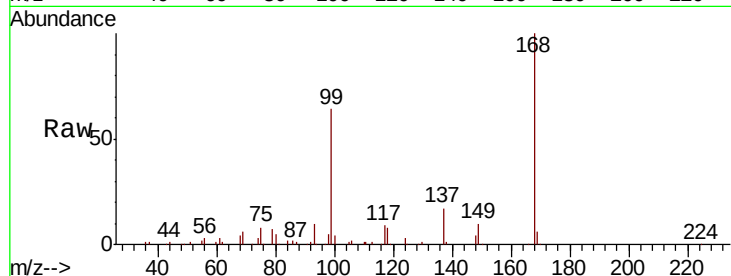




#36
 1,1-Dichloropropene
 Concen: 5.002 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.10 min
 Lab File: VD063103.D
 Acq: 16 Jul 2019 13:43

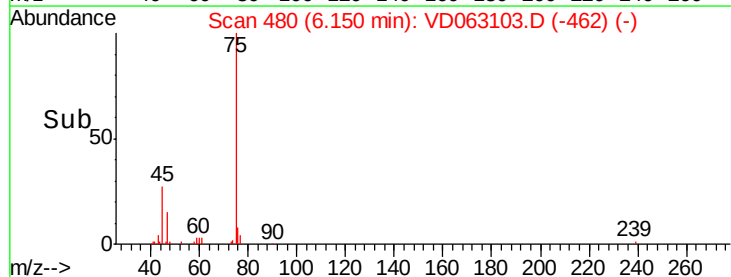
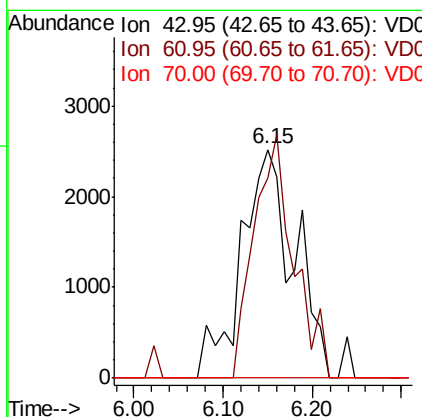
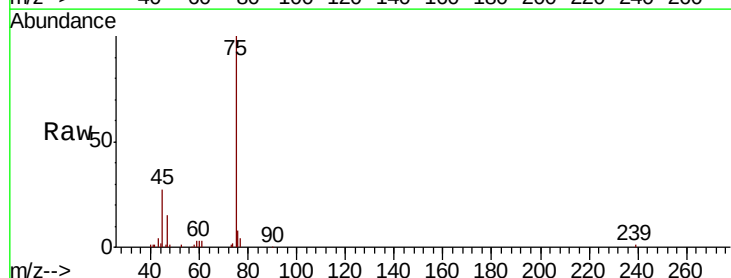
Instrument :
 MSVOA_D
 ClientSampleId :
 CL-01-071219-B

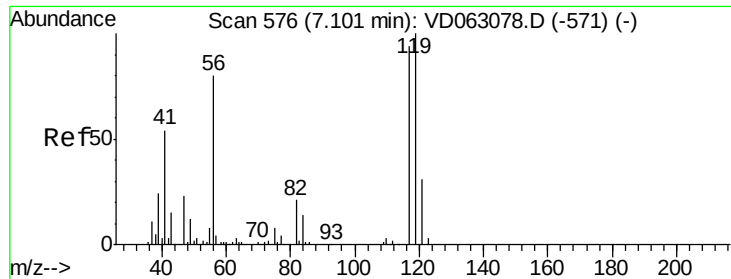
Tot Ion: 75 Resp: 47672
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.9 56.5#
 77 0.0 25.2 37.8#



#37
 Ethyl Acetate
 Concen: 2.541 ug/l
 RT: 6.15 min Scan# 480
 Delta R.T. -0.03 min
 Lab File: VD063103.D
 Acq: 16 Jul 2019 13:43

Tgt Ion: 43 Resp: 10365
 Ion Ratio Lower Upper
 43 100
 61 87.8 10.6 16.0#
 70 0.0 6.6 9.8#

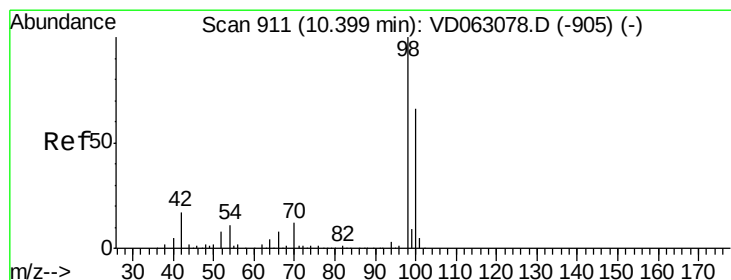
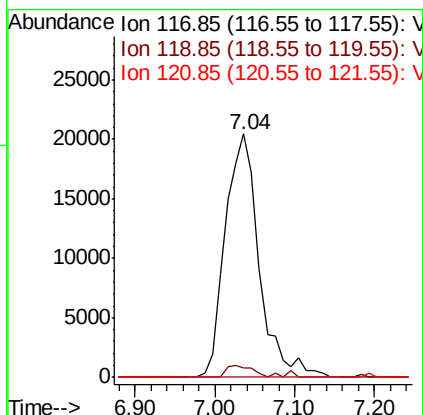
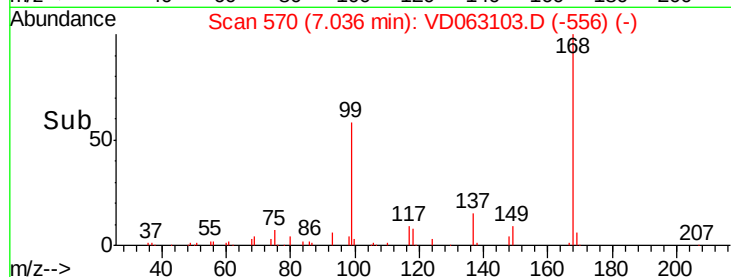
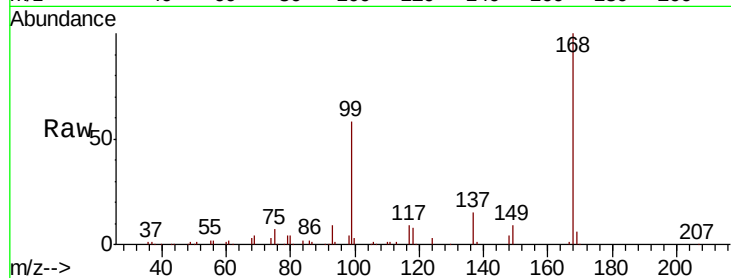




#38
Carbon Tetrachloride
Concen: 4.213 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.06 min
Lab File: VD063103.D
Acq: 16 Jul 2019 13:43

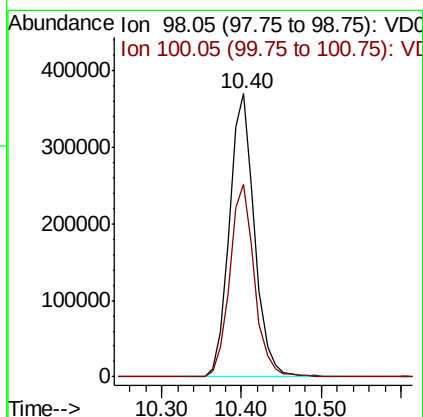
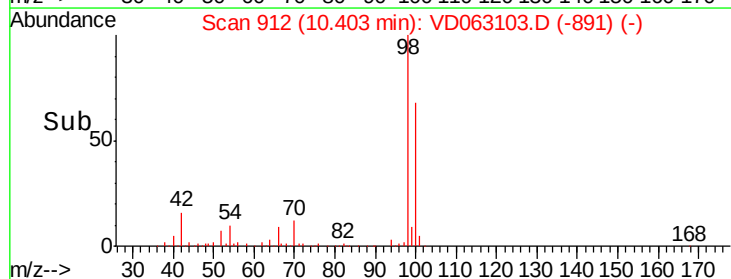
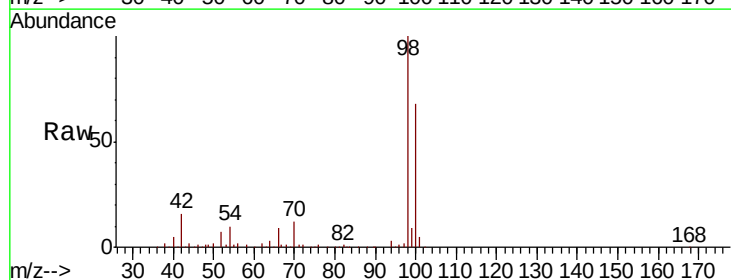
Instrument :
MSVOA_D
ClientSampleId :
CL-01-071219-B

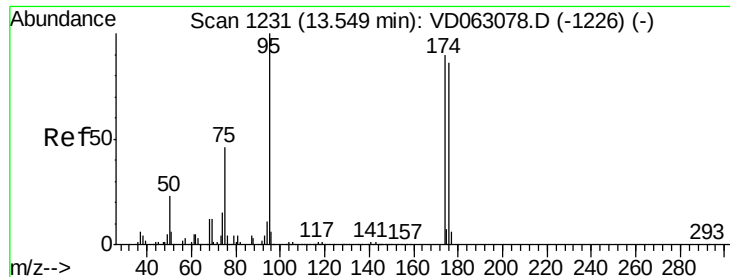
Tot Ion:117 Resp: 61006
Ion Ratio Lower Upper
117 100
119 3.7 80.0 120.0#
121 0.0 25.0 37.4#



#50
Toluene-d8
Concen: 44.992 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063103.D
Acq: 16 Jul 2019 13:43

Tgt Ion: 98 Resp: 815641
Ion Ratio Lower Upper
98 100
100 67.9 53.5 80.3





#62

4-Bromofluorobenzene

Concen: 38.849 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

CL-01-071219-B

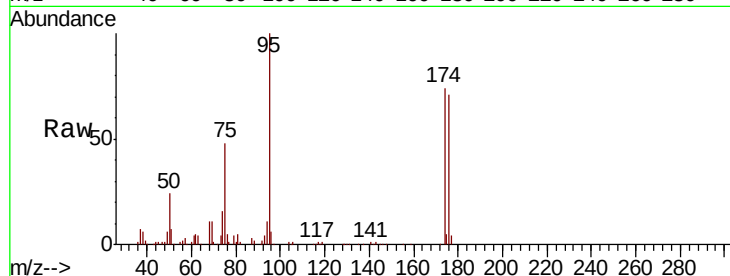
Tot Ion: 95 Resp: 325820

Ion Ratio Lower Upper

95 100

174 73.8 0.0 180.6

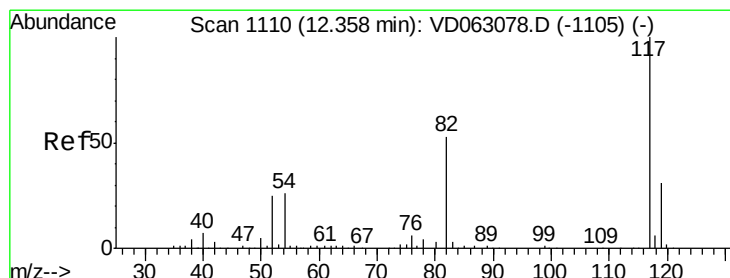
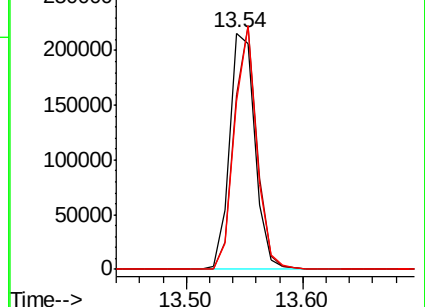
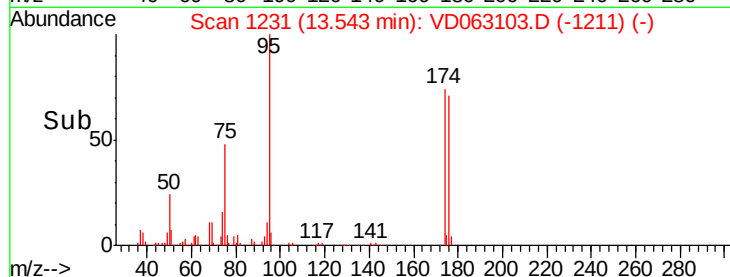
176 71.0 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

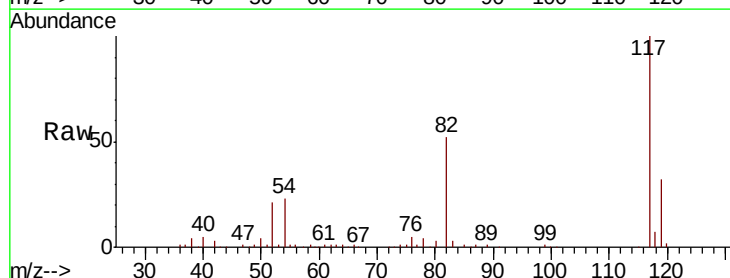
Tgt Ion: 117 Resp: 681984

Ion Ratio Lower Upper

117 100

82 52.1 42.3 63.5

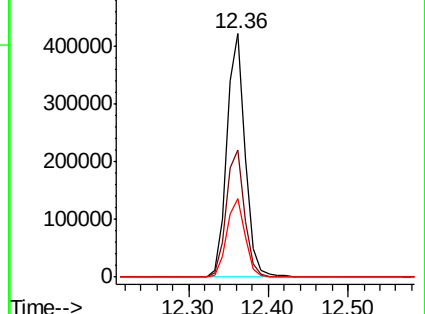
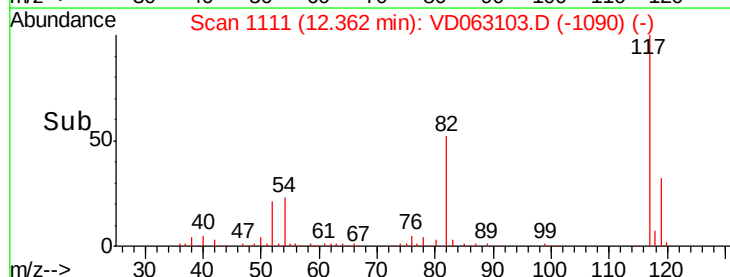
119 32.2 25.2 37.8

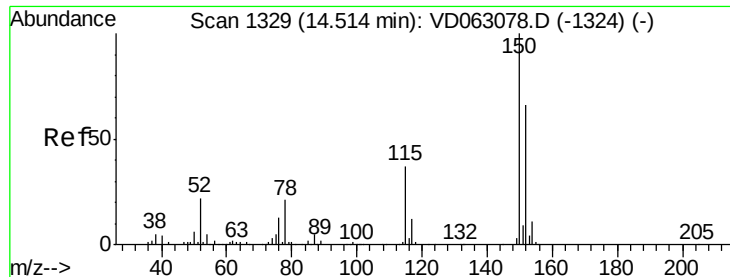


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

CL-01-071219-B

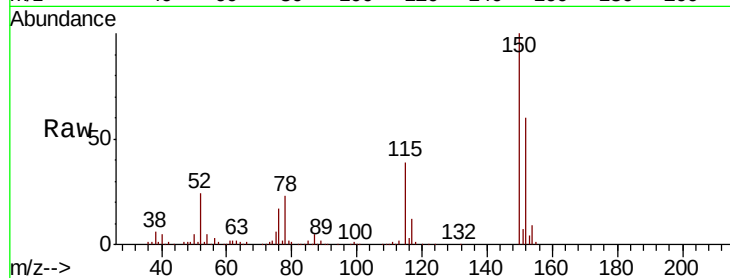
Tot Ion:152 Resp: 259058

Ion Ratio Lower Upper

152 100

115 65.5 28.9 86.8

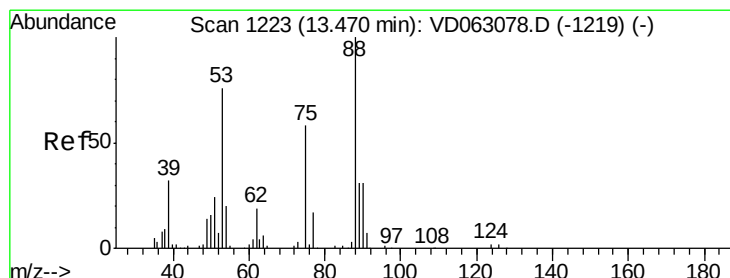
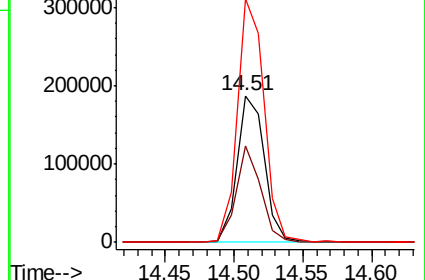
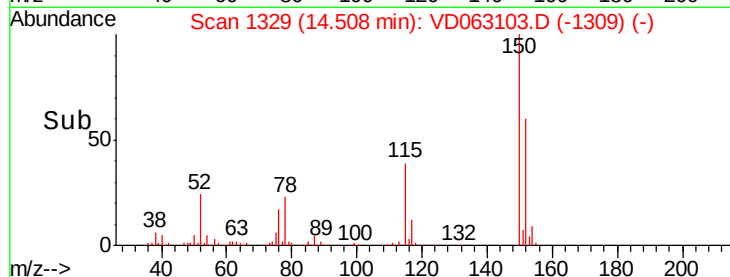
150 166.1 0.0 313.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 137.981 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD063103.D

Acq: 16 Jul 2019 13:43

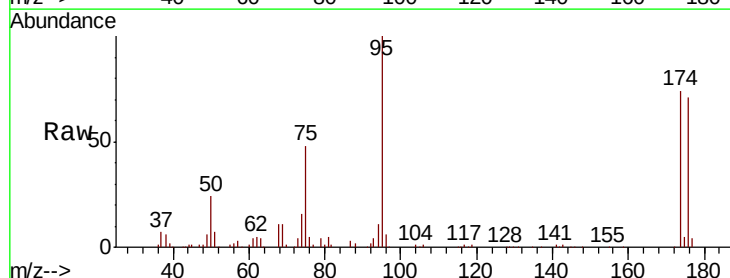
Tgt Ion: 75 Resp: 144799

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

