

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\
 Data File : VD063106.D
 Acq On : 16 Jul 2019 15:04
 Operator : VA/AP
 Sample : K3620-09
 Misc : 6.89g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Jul 17 07:35:56 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	7.03	168	556664	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	755259	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	602283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	251491	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	306896	44.26	ug/l	0.00
Spiked Amount			Recovery	=	88.52%	
35) Dibromofluoromethane	6.92	113	307757	40.91	ug/l	0.00
Spiked Amount			Recovery	=	81.82%	
50) Toluene-d8	10.41	98	703993	43.57	ug/l	0.00
Spiked Amount			Recovery	=	87.14%	
62) 4-Bromofluorobenzene	13.56	95	250119	33.46	ug/l	0.00
Spiked Amount			Recovery	=	66.92%	

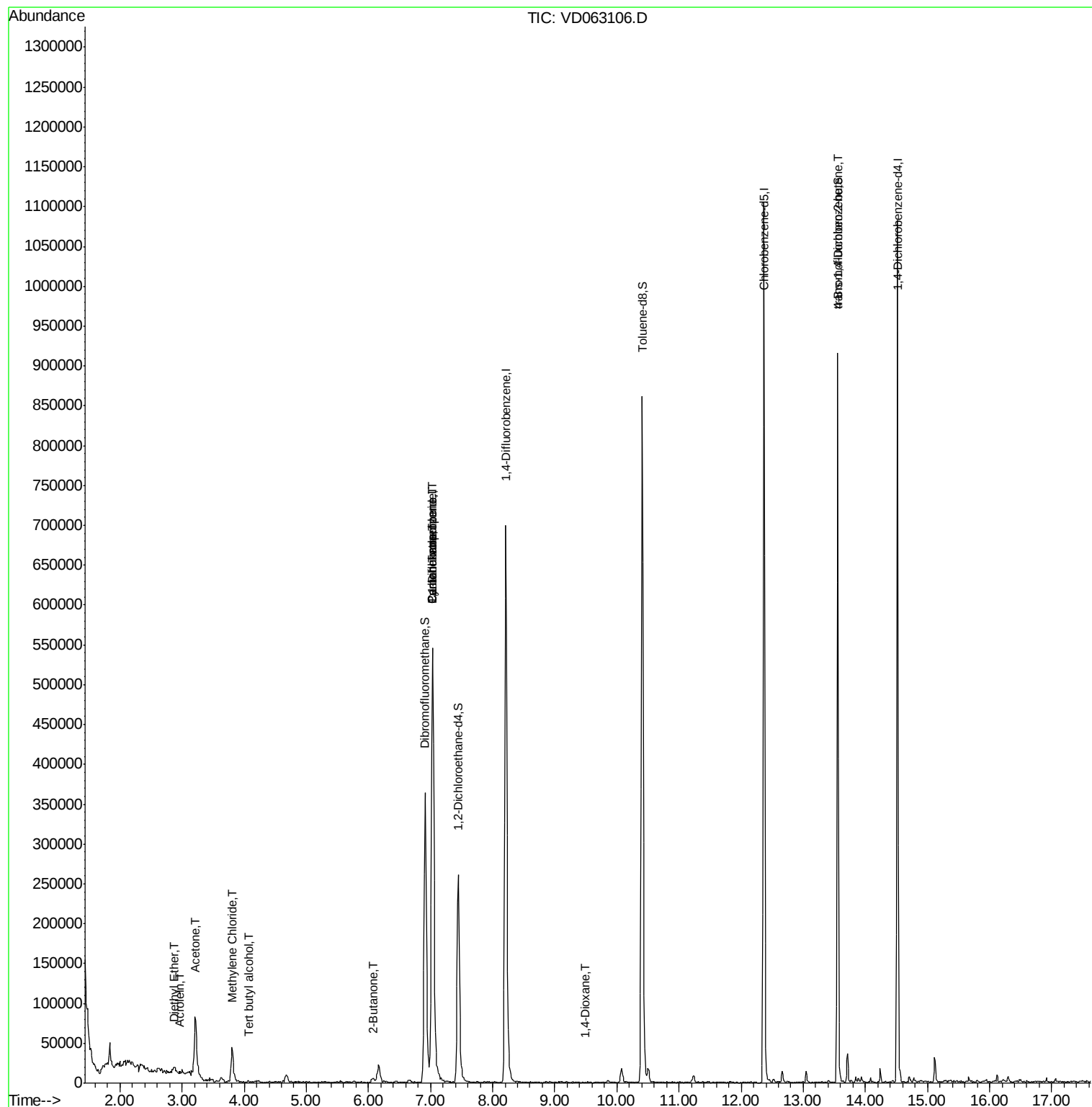
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	618	Below Cal	#	43
3) Chloromethane	1.76	50	1609	Below Cal	#	48
5) Bromomethane	2.15	94	947	Below Cal	#	47
8) Diethyl Ether	2.87	74	2615	1.546	ug/l	58
11) Tert butyl alcohol	4.07	59	858	2.144	ug/l #	77
13) Acrolein	2.95	56	195	1.614	ug/l #	3
16) Acetone	3.21	43	162047	96.754	ug/l	96
18) Methyl Acetate	3.63	43	8525	Below Cal	#	90
20) Methylene Chloride	3.80	84	22495	3.555	ug/l	94
25) 2-Butanone	6.07	43	14083	8.806	ug/l #	79
31) Cyclohexane	7.03	56	11413	1.729	ug/l #	11
36) 1,1-Dichloropropene	7.03	75	42920	5.053	ug/l #	46
38) Carbon Tetrachloride	7.03	117	52425	4.062	ug/l #	14
49) 1,4-Dioxane	9.49	88	200	6.777	ug/l #	27
81) trans-1,4-Dichloro-2-buten	13.56	75	113798	111.702	ug/l #	1

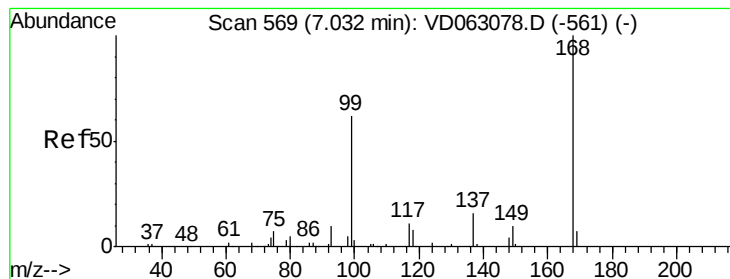
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.00 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

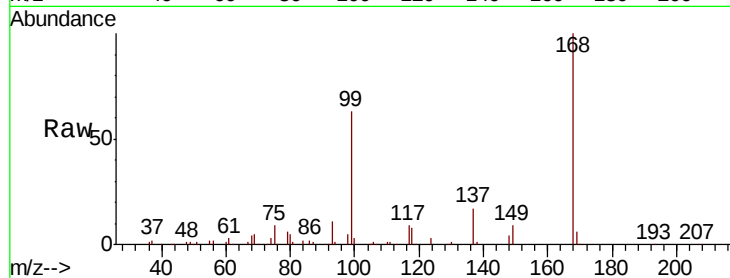
CL-01-071219-E

Tot Ion:168 Resp: 556664

Ion Ratio Lower Upper

168 100

99 63.3 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

200000

150000

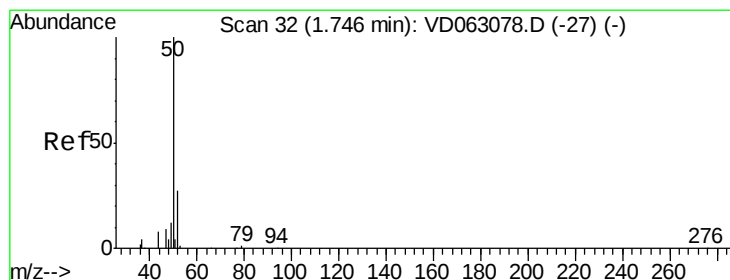
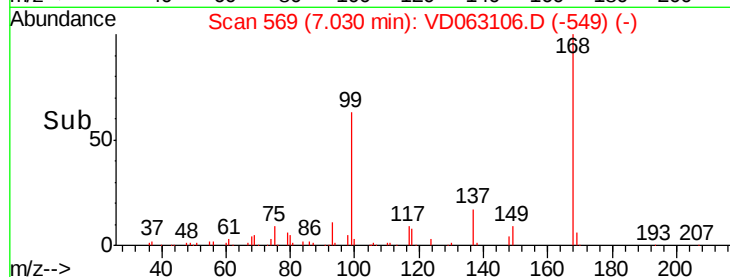
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD063106.D

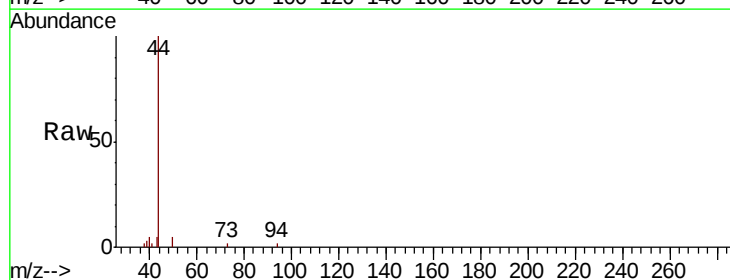
Acq: 16 Jul 2019 15:04

Tgt Ion: 50 Resp: 1609

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

1.76

1000

800

600

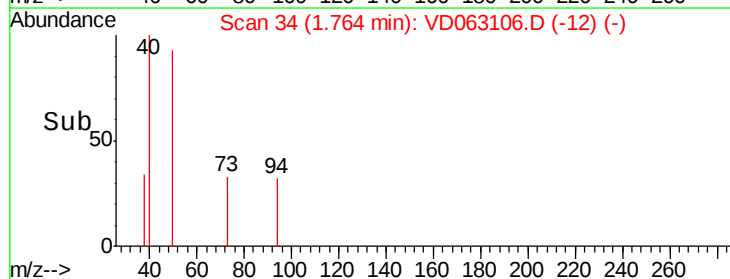
400

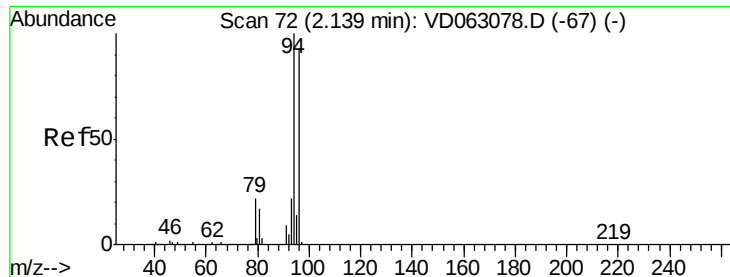
200

0

Time-->

1.70 1.75 1.80





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

CL-01-071219-E

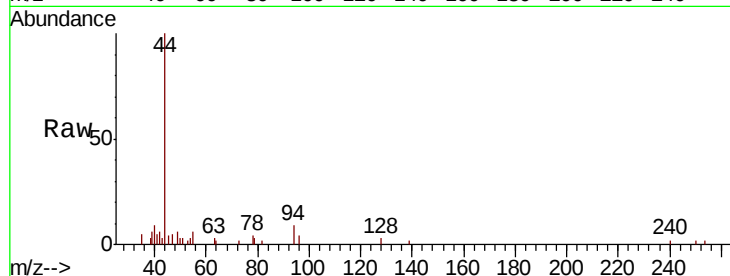
Tot Ion: 94 Resp: 947

Ion Ratio Lower Upper

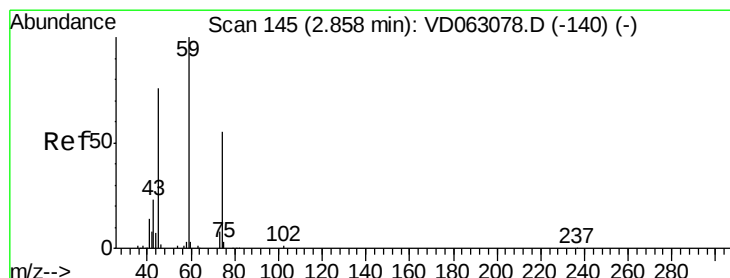
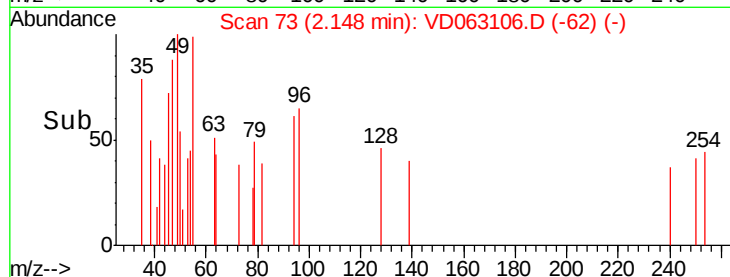
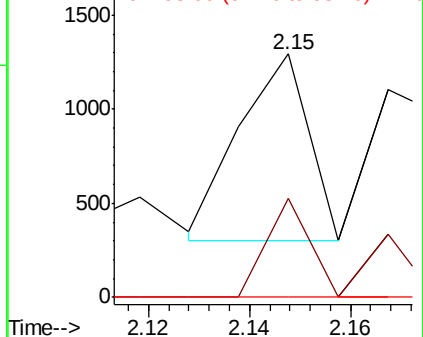
94 100

96 40.8 74.2 111.2#

93 0.0 17.8 26.6#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#8

Diethyl Ether

Concen: 1.546 ug/l

RT: 2.87 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD063106.D

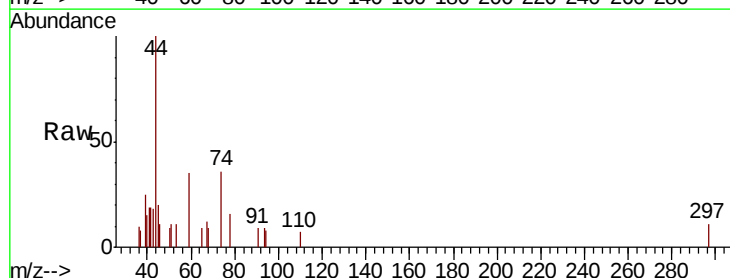
Acq: 16 Jul 2019 15:04

Tgt Ion: 74 Resp: 2615

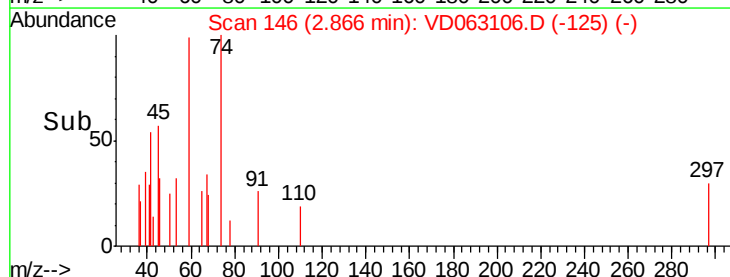
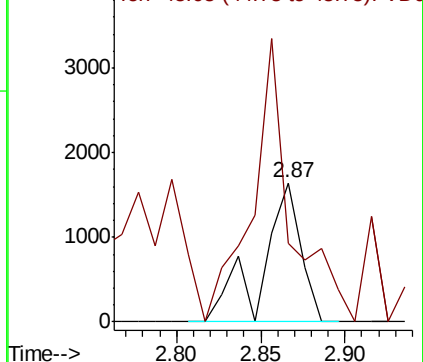
Ion Ratio Lower Upper

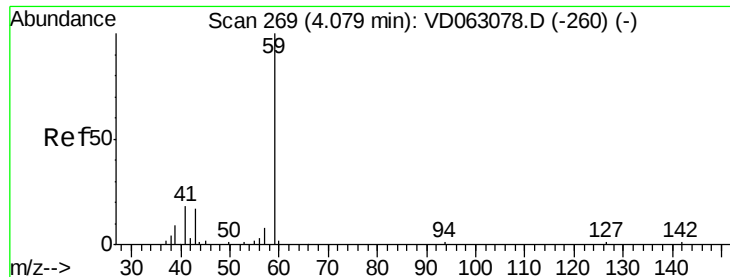
74 100

45 88.6 69.5 208.7



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC

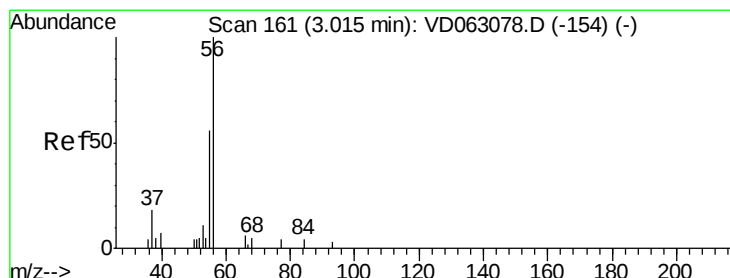
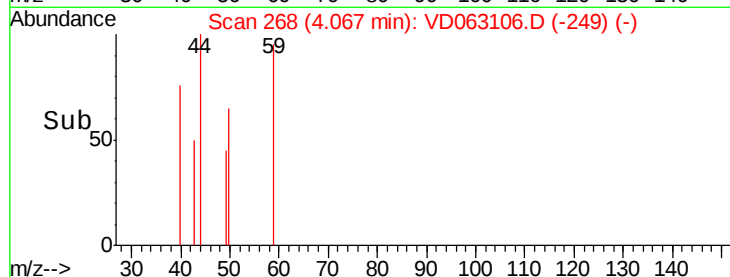
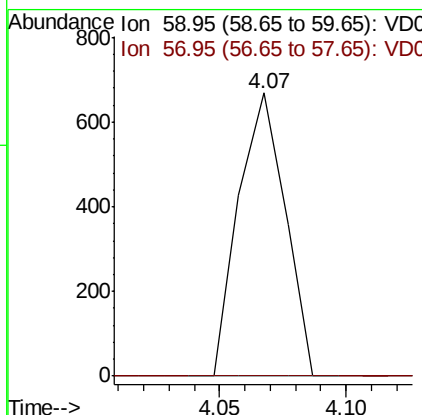
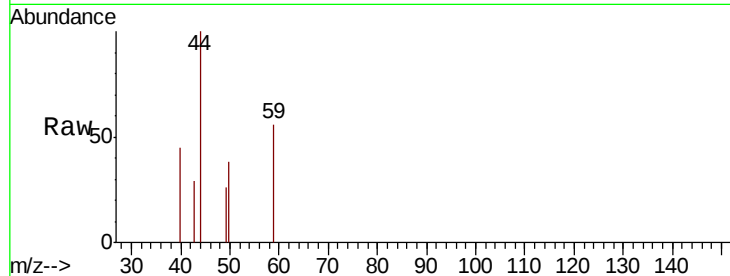




#11
Tert butyl alcohol
Concen: 2.144 ug/l
RT: 4.07 min Scan# 268
Delta R.T. -0.01 min
Lab File: VD063106.D
Acq: 16 Jul 2019 15:04

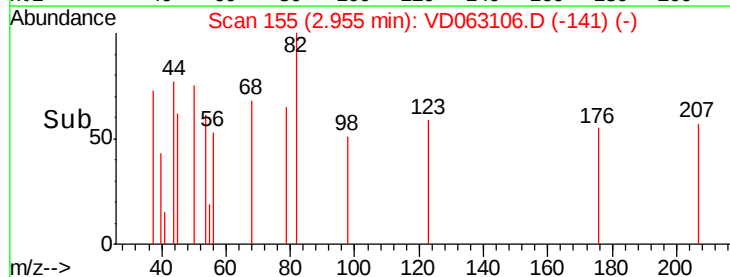
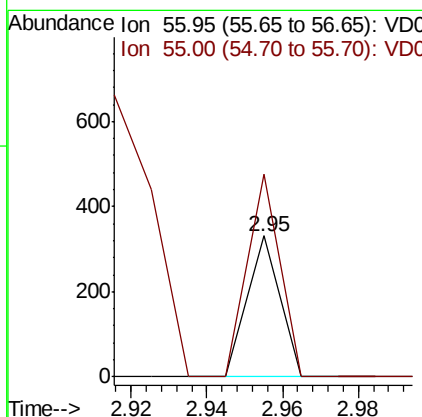
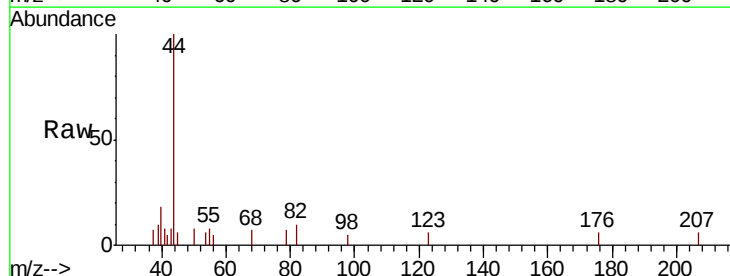
Instrument :
MSVOA_D
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CL-01-071219-E

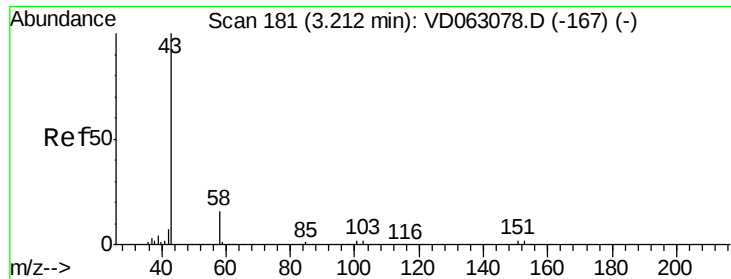
Tot Ion: 59 Resp: 858
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



#13
Acrolein
Concen: 1.614 ug/l
RT: 2.95 min Scan# 155
Delta R.T. -0.06 min
Lab File: VD063106.D
Acq: 16 Jul 2019 15:04

Tgt Ion: 56 Resp: 195
Ion Ratio Lower Upper
56 100
55 143.5 53.0 79.4#





#16

Acetone

Concen: 96.754 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.00 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

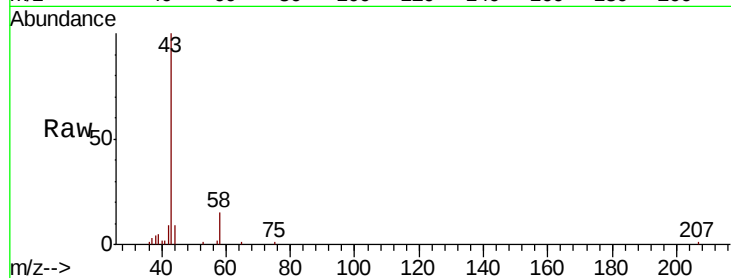
CL-01-071219-E

Tot Ion: 43 Resp: 162047

Ion Ratio Lower Upper

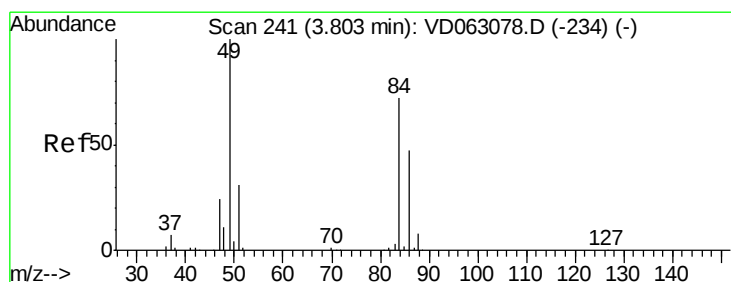
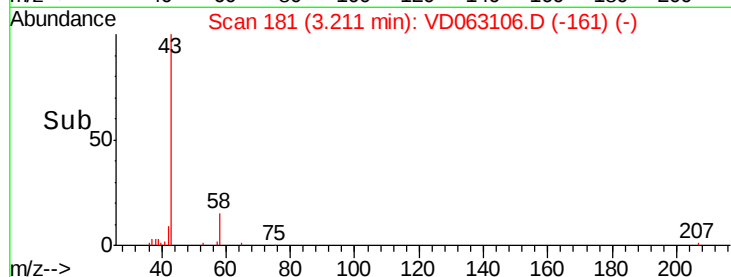
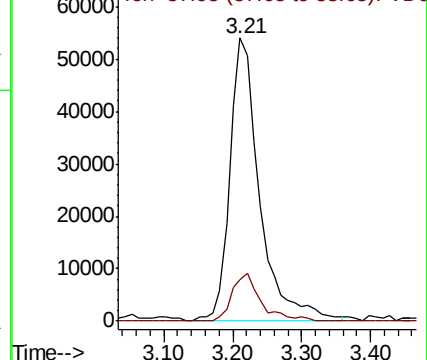
43 100

58 14.7 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 3.555 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.00 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

Tgt Ion: 84 Resp: 22495

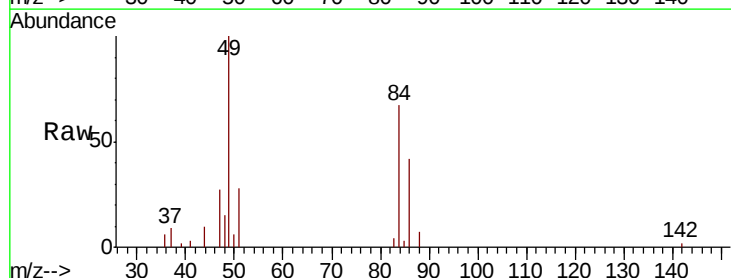
Ion Ratio Lower Upper

84 100

49 148.2 110.5 165.7

51 40.8 34.6 51.8

86 62.3 51.6 77.4

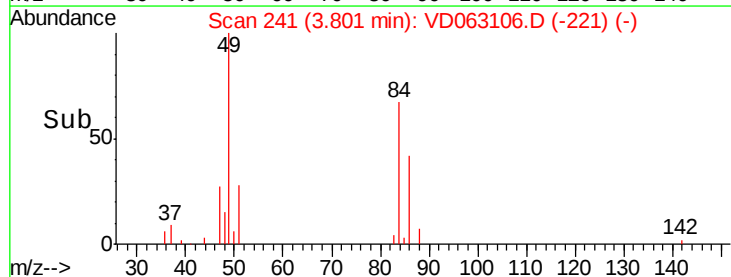
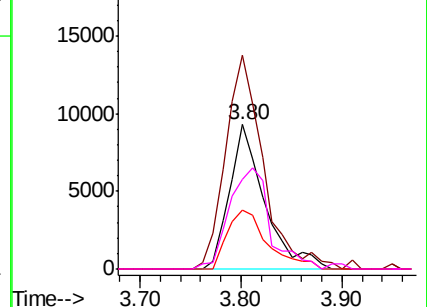


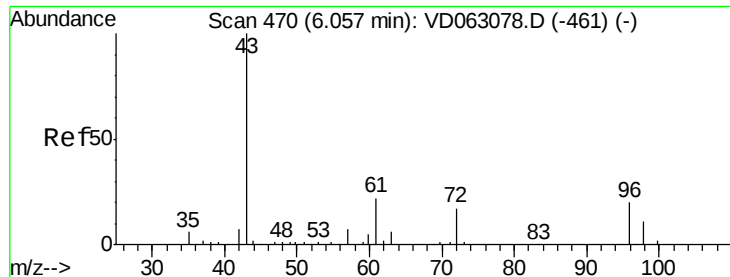
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 8.806 ug/l

RT: 6.07 min Scan# 471

Delta R.T. 0.01 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

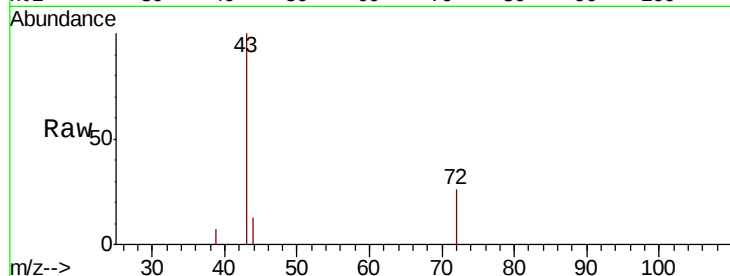
CL-01-071219-E

Tot Ion: 43 Resp: 14083

Ion Ratio Lower Upper

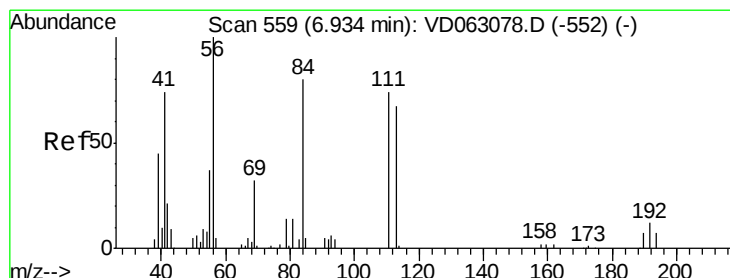
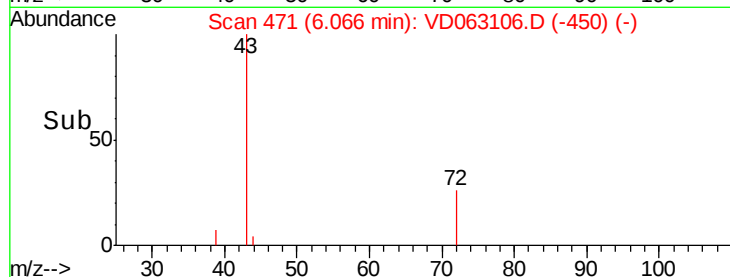
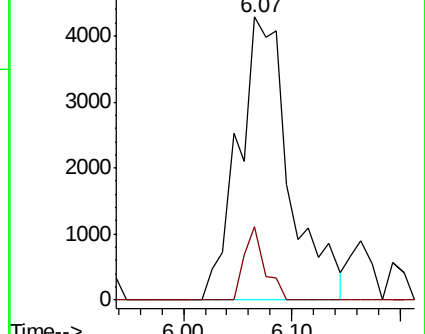
43 100

72 25.9 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: 1.729 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.10 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

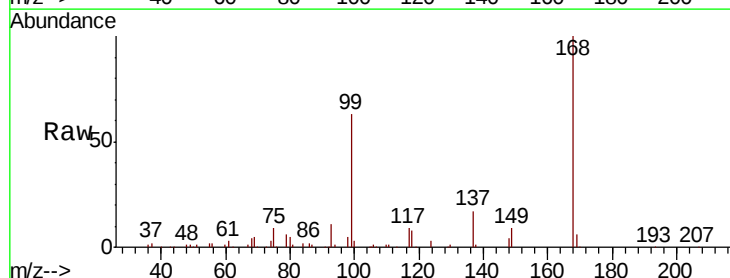
Tgt Ion: 56 Resp: 11413

Ion Ratio Lower Upper

56 100

69 189.8 25.3 37.9#

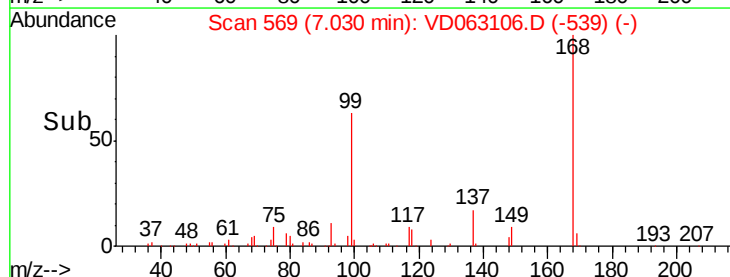
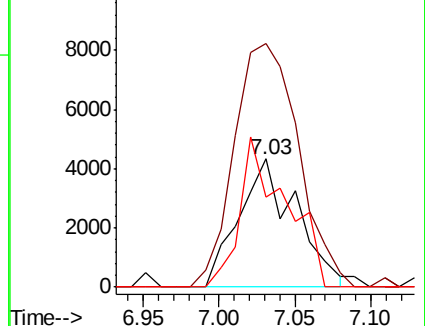
84 70.4 64.2 96.4

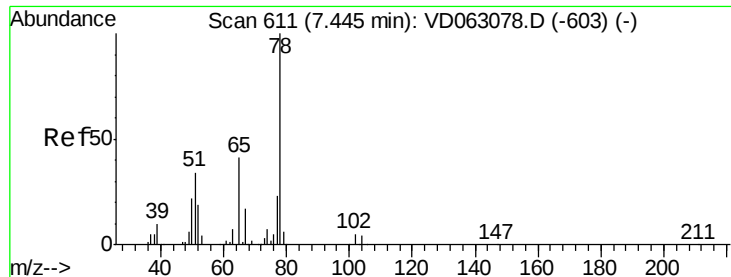


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

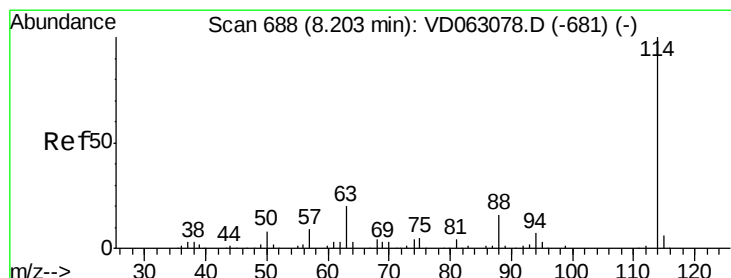
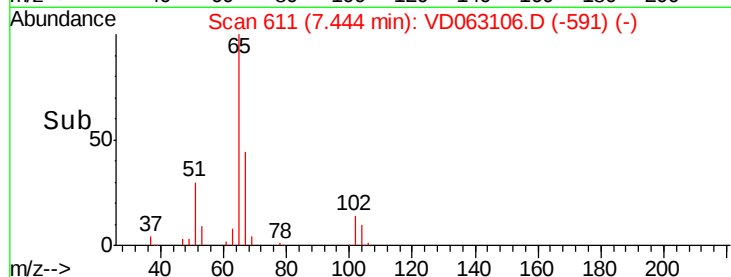
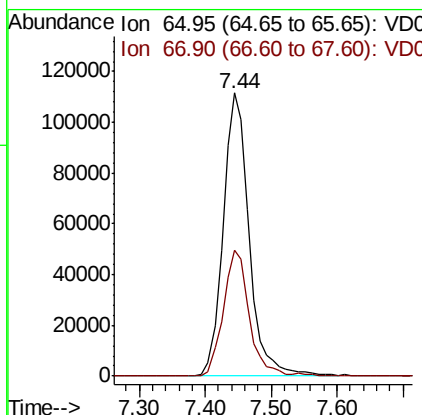
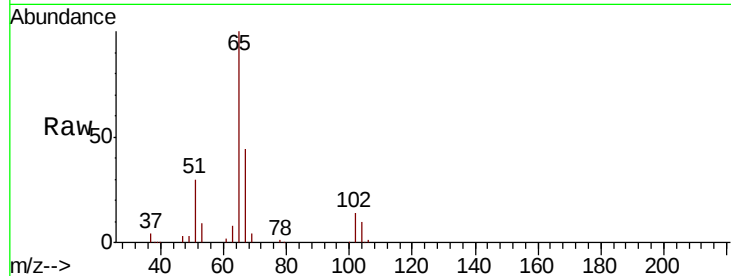




#33
 1,2-Dichloroethane-d4
 Concen: 44.258 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VD063106.D
 Acq: 16 Jul 2019 15:04

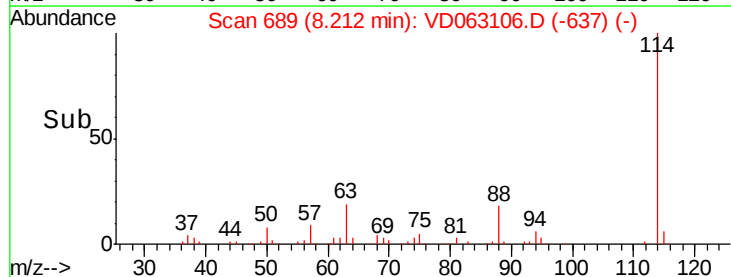
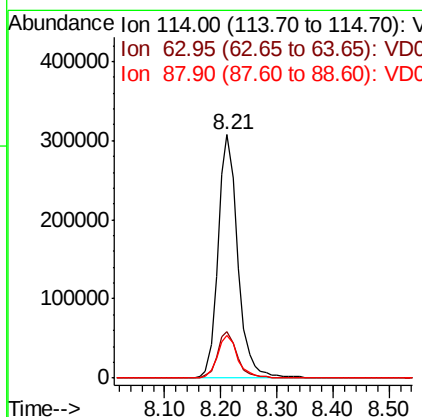
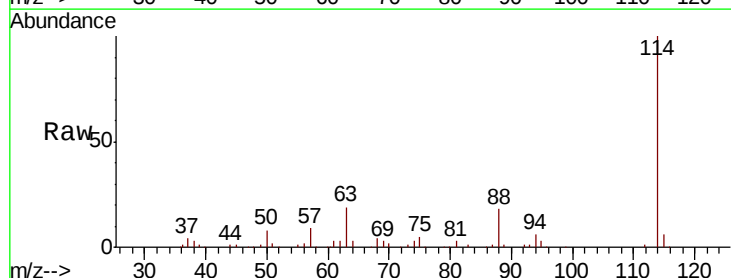
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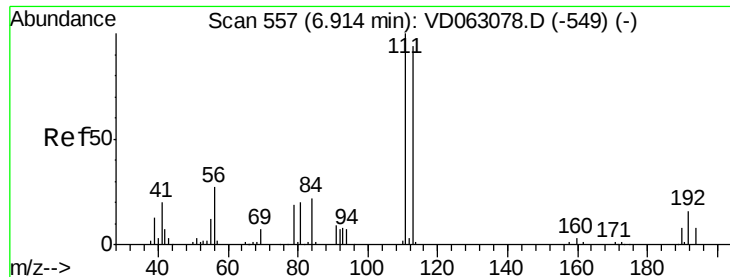
Tot Ion: 65 Resp: 306896
 Ion Ratio Lower Upper
 65 100
 67 44.3 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.01 min
 Lab File: VD063106.D
 Acq: 16 Jul 2019 15:04

Tgt Ion: 114 Resp: 755259
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.6
 88 17.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 40.911 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

CL-01-071219-E

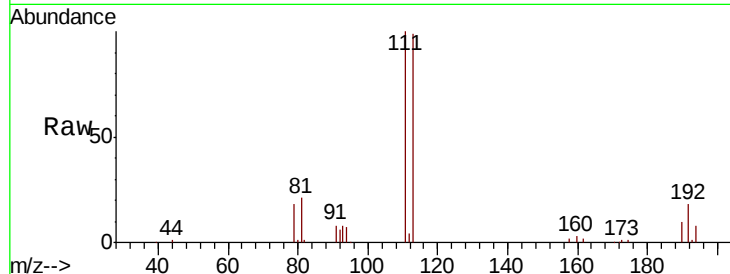
Tot Ion:113 Resp: 307757

Ion Ratio Lower Upper

113 100

111 101.1 84.8 127.2

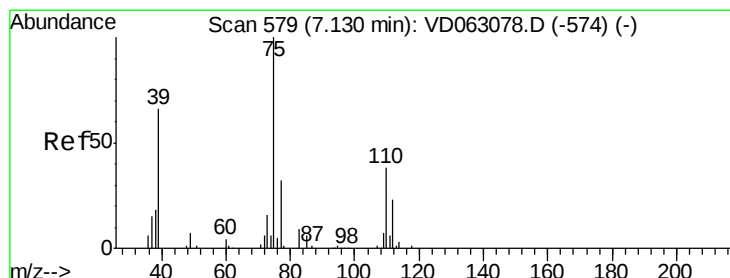
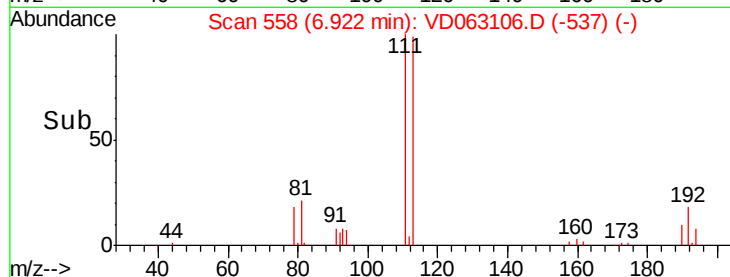
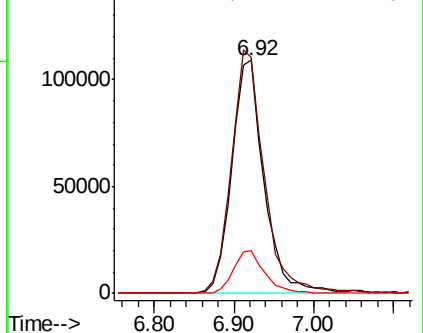
192 18.1 13.4 20.0



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: 5.053 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.10 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

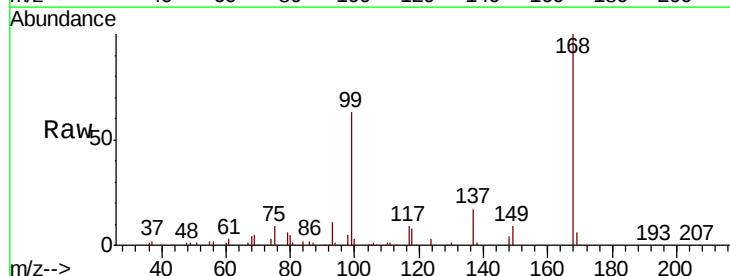
Tgt Ion: 75 Resp: 42920

Ion Ratio Lower Upper

75 100

110 6.4 18.9 56.5#

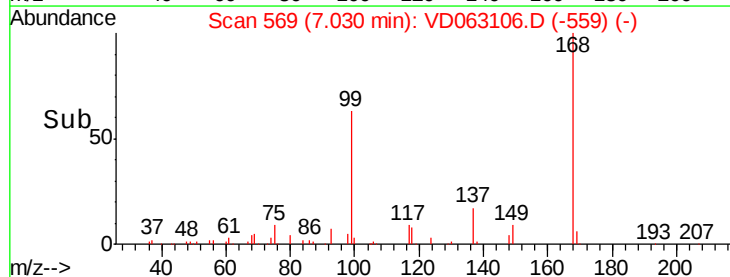
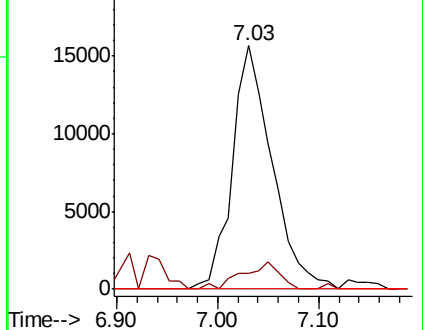
77 0.0 25.2 37.8#

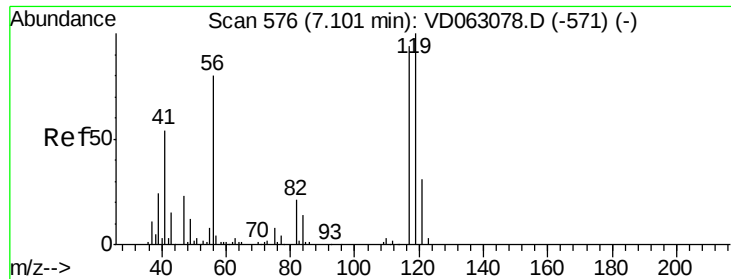


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 4.062 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

CL-01-071219-E

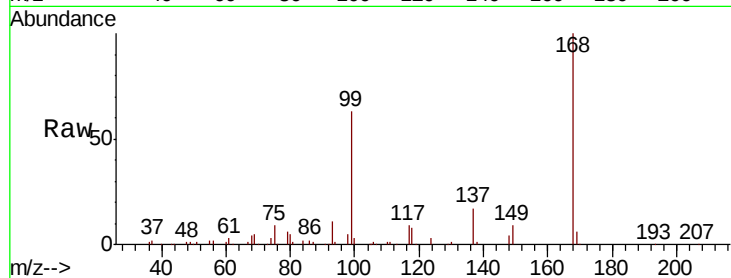
Tot Ion:117 Resp: 52425

Ion Ratio Lower Upper

117 100

119 5.2 80.0 120.0#

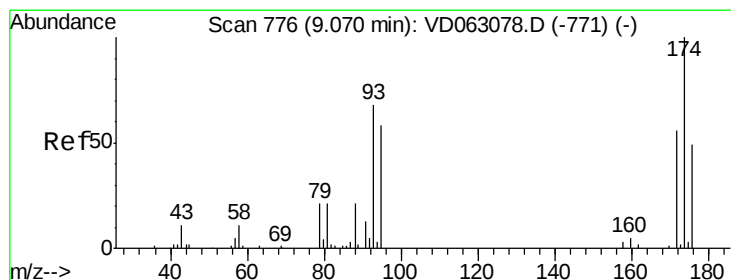
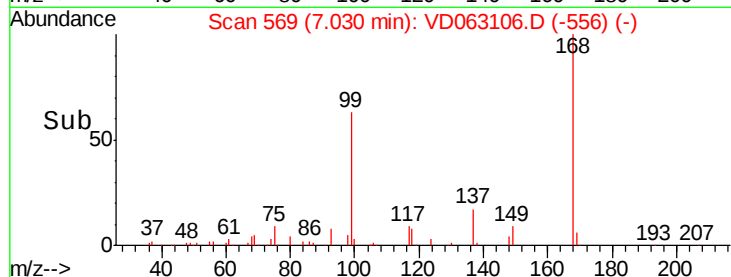
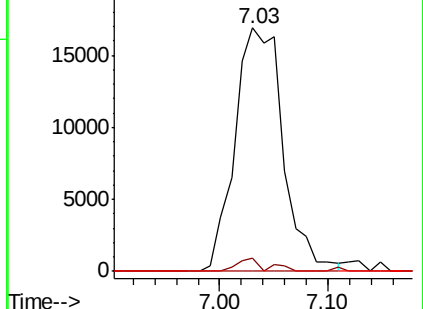
121 0.0 25.0 37.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#49

1,4-Dioxane

Concen: 6.777 ug/l

RT: 9.49 min Scan# 819

Delta R.T. 0.42 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

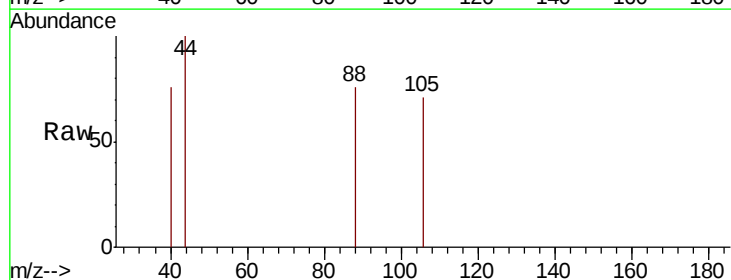
Tgt Ion: 88 Resp: 200

Ion Ratio Lower Upper

88 100

43 0.0 40.2 60.4#

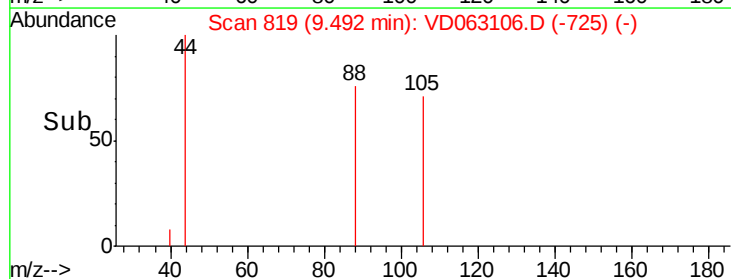
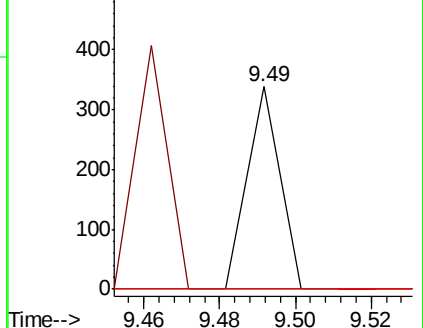
58 0.0 41.6 62.4#

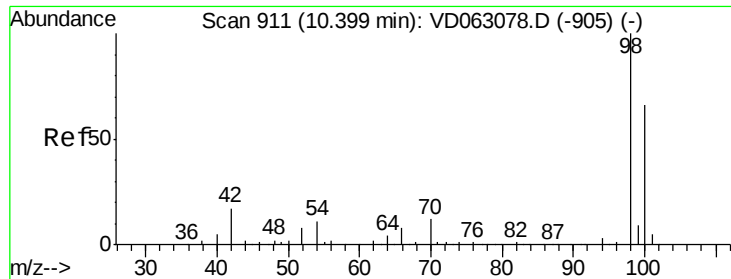


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

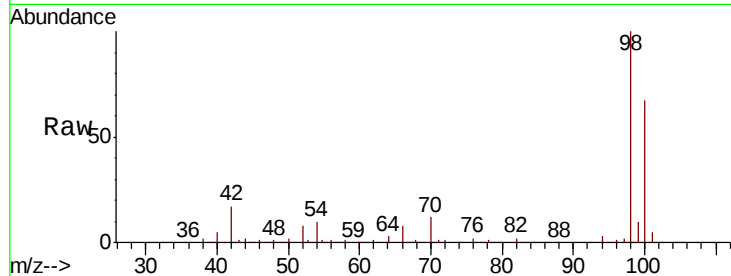




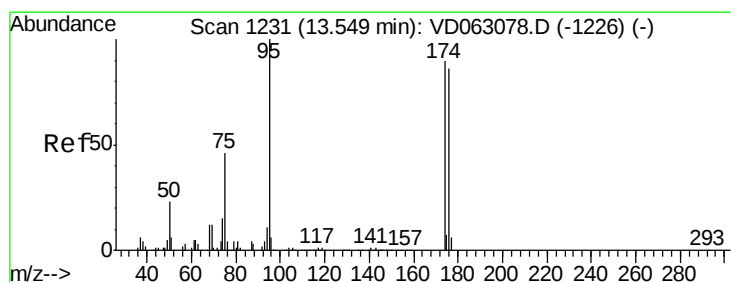
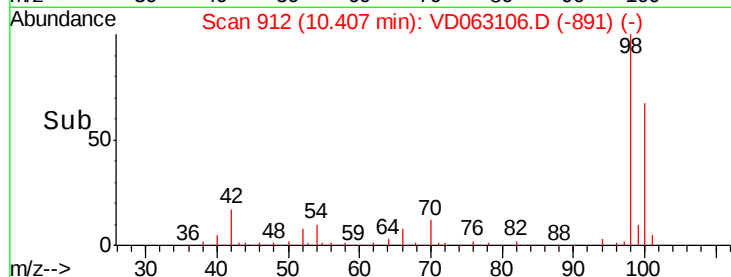
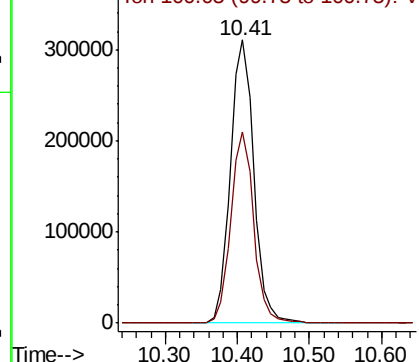
#50
Toluene-d8
Concen: 43.568 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD063106.D
Acq: 16 Jul 2019 15:04

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

Tot Ion: 98 Resp: 703993
Ion Ratio Lower Upper
98 100
100 67.4 53.5 80.3

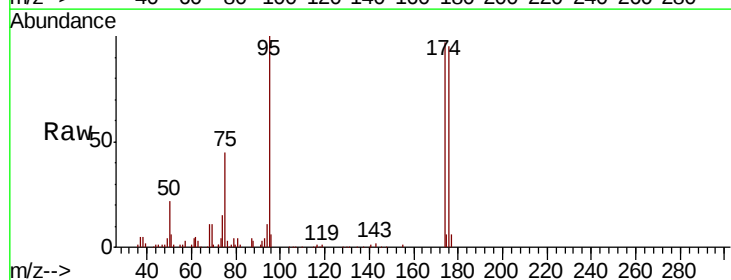


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

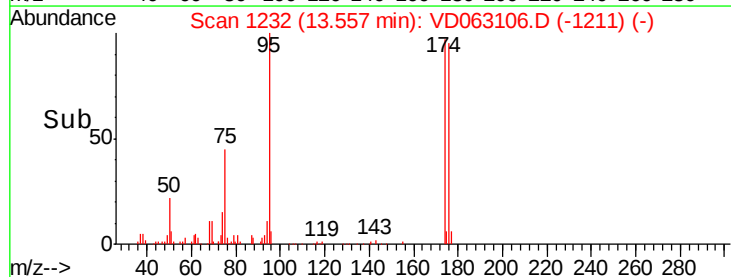
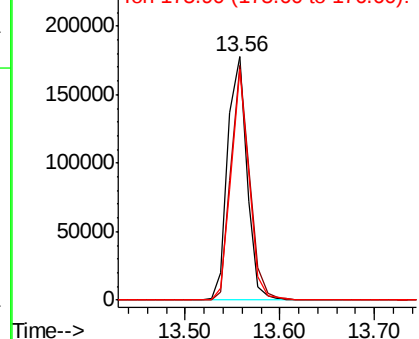


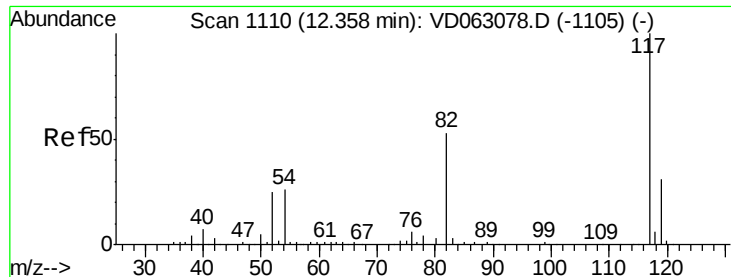
#62
4-Bromofluorobenzene
Concen: 33.458 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD063106.D
Acq: 16 Jul 2019 15:04

Tgt Ion: 95 Resp: 250119
Ion Ratio Lower Upper
95 100
174 96.6 0.0 180.6
176 94.6 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): VD0
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

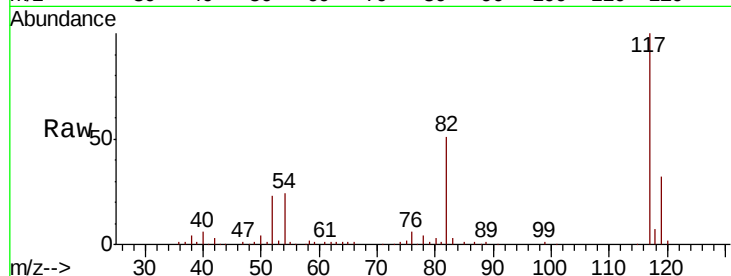




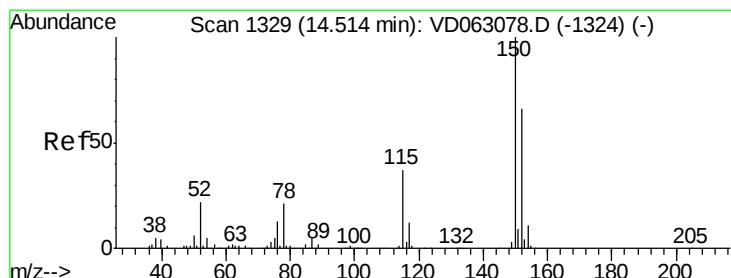
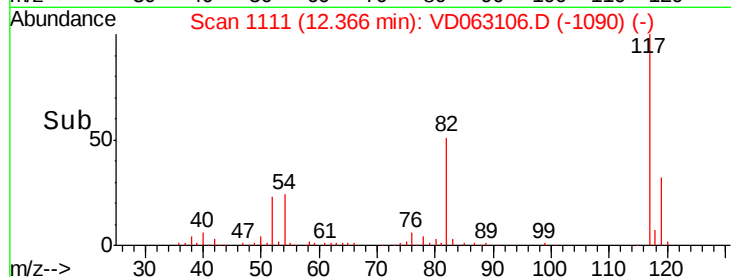
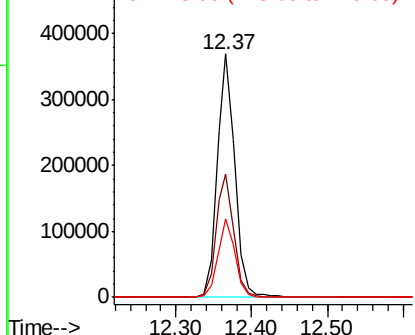
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD063106.D
Acq: 16 Jul 2019 15:04

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

Tot Ion:117 Resp: 602283
Ion Ratio Lower Upper
117 100
82 50.6 42.3 63.5
119 32.3 25.2 37.8

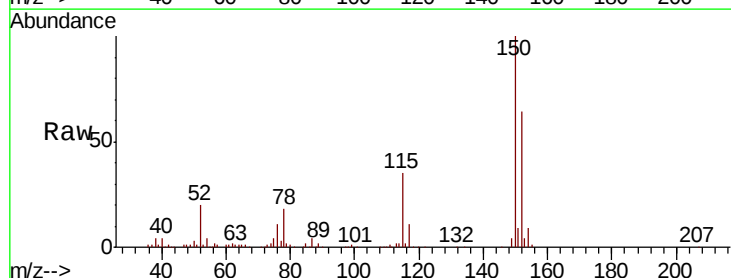


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

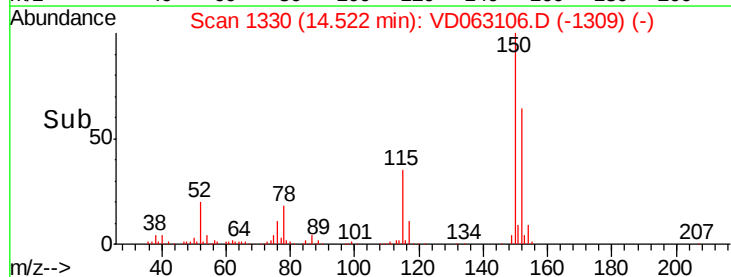
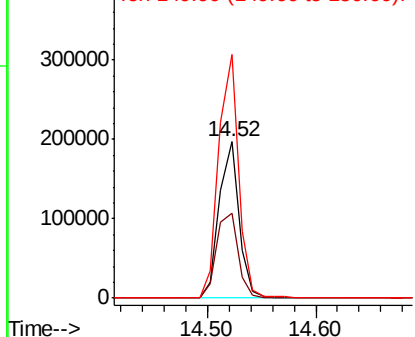


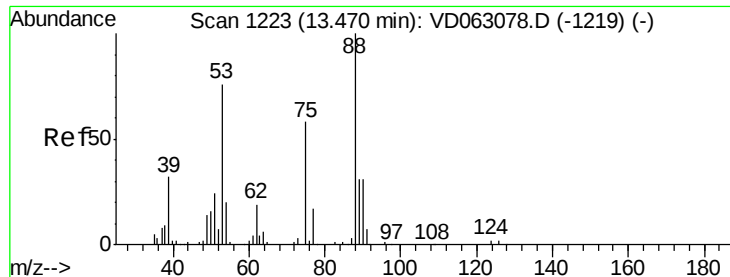
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD063106.D
Acq: 16 Jul 2019 15:04

Tgt Ion:152 Resp: 251491
Ion Ratio Lower Upper
152 100
115 54.0 28.9 86.8
150 155.6 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: 111.702 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063106.D

Acq: 16 Jul 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

CL-01-071219-E

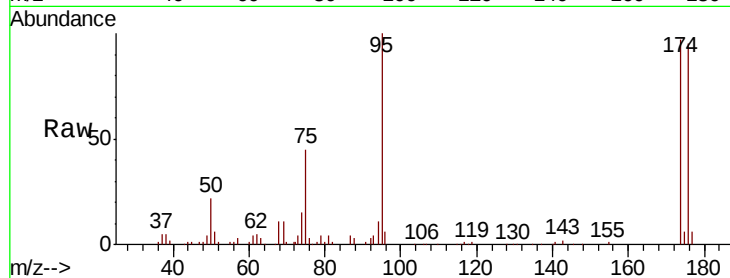
Tot Ion: 75 Resp: 113798

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

