

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD083118\
 Data File : VD059935.D
 Acq On : 31 Aug 2018 14:56
 Operator : JC/SY
 Sample : J4275-19
 Misc : 5.22g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-02-082918-A

Quant Time: Aug 31 15:39:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	71105	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.42	114	155714	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	113895	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.37	152	49018	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.76	65	68902	114.97	ug/l	-0.03
Spiked Amount			Recovery	=	229.94%	
35) Dibromofluoromethane	6.30	113	59531	48.76	ug/l	-0.03
Spiked Amount			Recovery	=	97.52%	
50) Toluene-d8	9.43	98	87878	25.94	ug/l	-0.03
Spiked Amount			Recovery	=	51.88%	
62) 4-Bromofluorobenzene	12.41	95	41258	29.98	ug/l	-0.02
Spiked Amount			Recovery	=	59.96%	

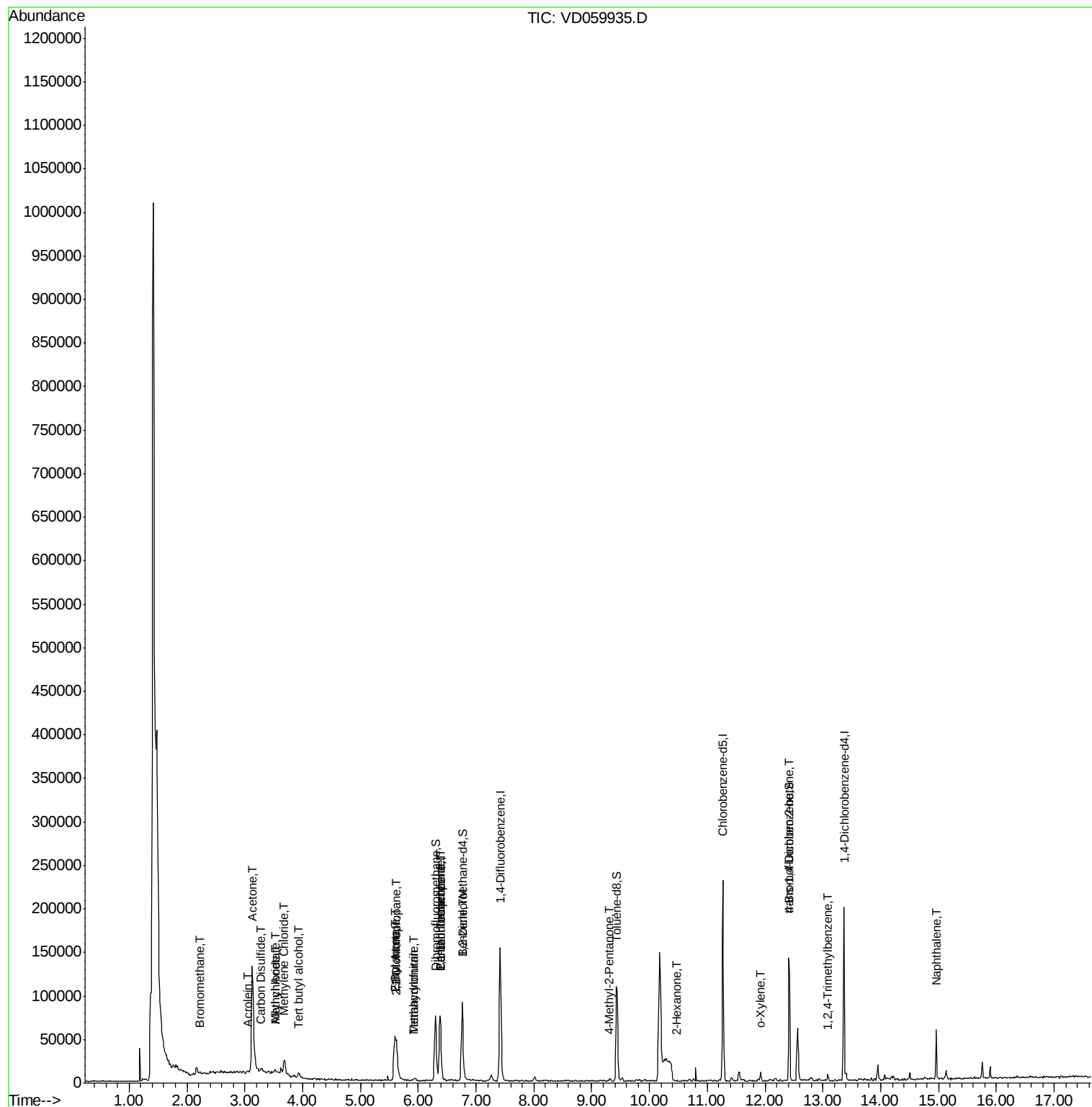
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.22	94	193	2.476	ug/l #	1
11) Tert butyl alcohol	3.94	59	8095	177.023	ug/l #	75
13) Acrolein	3.06	56	224	11.294	ug/l	82
14) Allyl chloride	3.51	41	828	1.470	ug/l #	82
16) Acetone	3.13	43	226038	2070.197	ug/l	100
17) Carbon Disulfide	3.28	76	6067	7.849	ug/l #	87
18) Methyl Acetate	3.52	43	7529	33.032	ug/l #	78
20) Methylene Chloride	3.68	84	8051	7.915	ug/l	93
25) 2-Butanone	5.59	43	89559	276.949	ug/l	98
26) 2,2-Dichloropropane	5.62	77	1567	1.510	ug/l #	49
29) Tetrahydrofuran	5.93	42	1748	11.354	ug/l #	53
36) 1,1-Dichloropropene	6.37	75	5235	3.709	ug/l #	40
37) Ethyl Acetate	5.59	43	90183	82.103	ug/l #	71
38) Carbon Tetrachloride	6.38	117	5329	3.741	ug/l #	12
40) Benzene	6.76	78	5655	1.541	ug/l	93
41) Methacrylonitrile	5.93	41	2071	3.743	ug/l #	79
51) 4-Methyl-2-Pentanone	9.32	43	3305	3.102	ug/l	98
59) 2-Hexanone	10.47	43	1041	1.325	ug/l #	30
69) o-Xylene	11.92	106	2188	1.614	ug/l	80
81) trans-1,4-Dichloro-2-buten	12.41	75	18121	76.465	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.08	105	4895	1.888	ug/l	81
89) n-Butylbenzene	13.64	91	889	Below Cal	#	29
95) Naphthalene	14.96	128	32857	19.068	ug/l	98

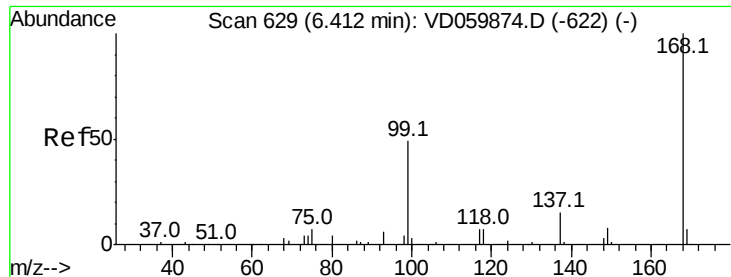
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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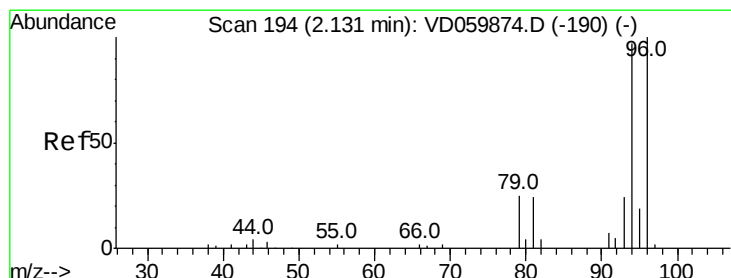
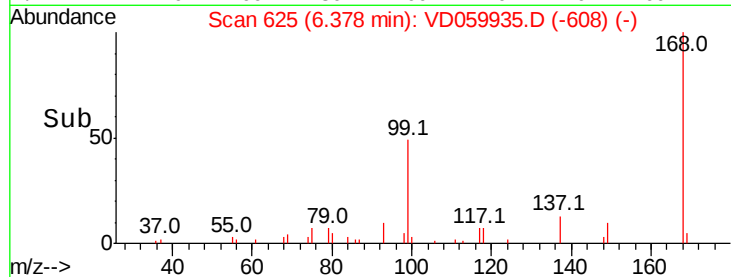
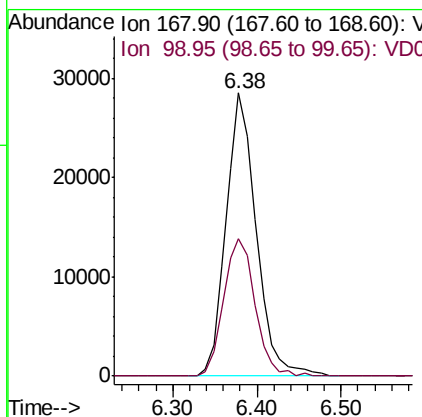
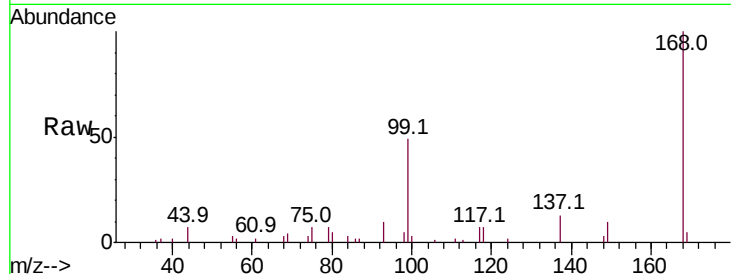




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 6.38 min Scan# 625
Delta R.T. -0.03 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

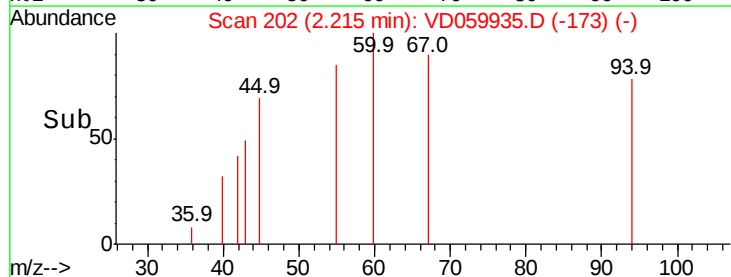
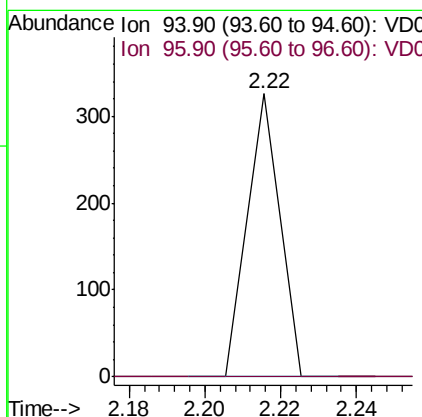
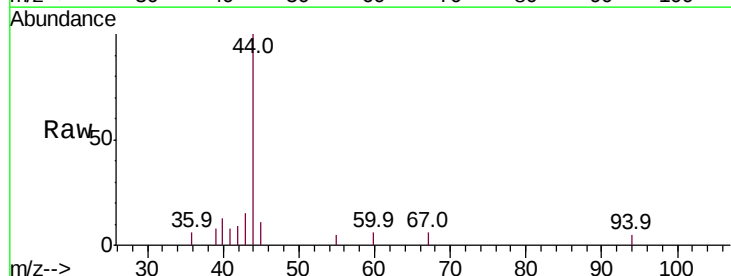
Instrument :
MSVOA_D
ClientSampleId :
CL-02-082918-A

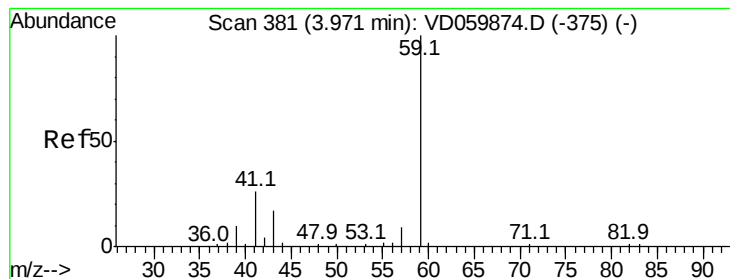
Tot Ion:168 Resp: 71105
Ion Ratio Lower Upper
168 100
99 48.7 42.2 63.2



#5
Bromomethane
Concen: 2.476 ug/l
RT: 2.22 min Scan# 202
Delta R.T. 0.08 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Tgt Ion: 94 Resp: 193
Ion Ratio Lower Upper
94 100
96 0.0 82.4 123.6#



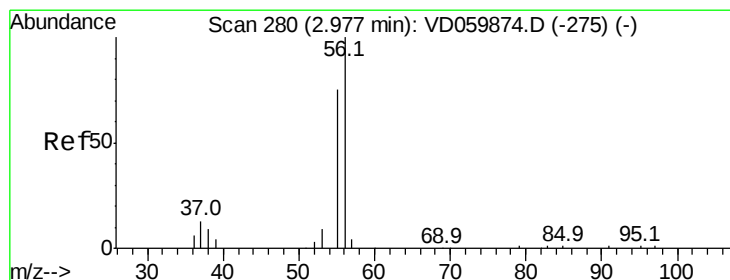
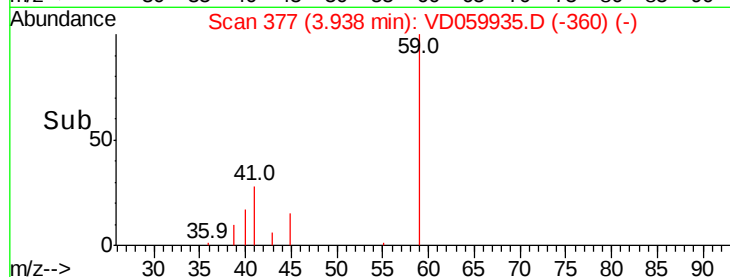
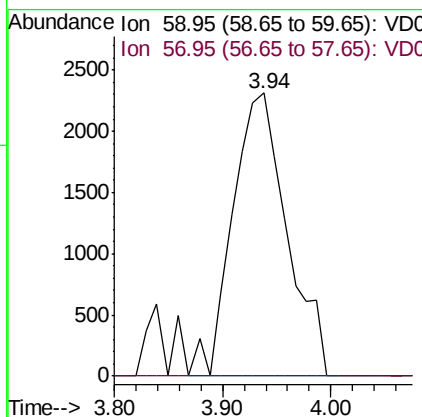
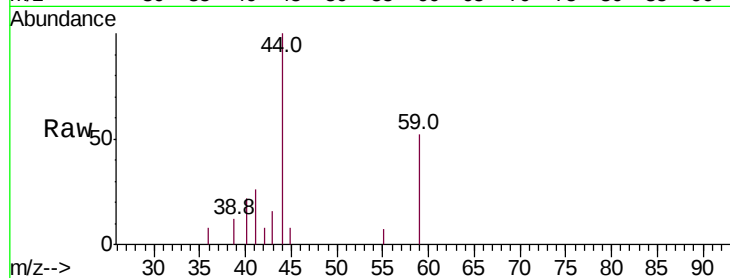


#11

Tert butyl alcohol
Concen: 177.023 ug/l
RT: 3.94 min Scan# 377
Delta R.T. -0.03 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Instrument :
MSVOA_D
ClientSampleId :
CL-02-082918-A

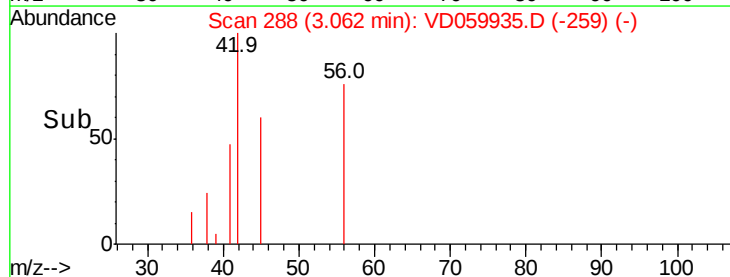
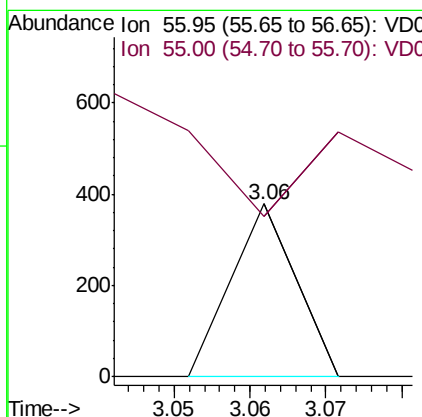
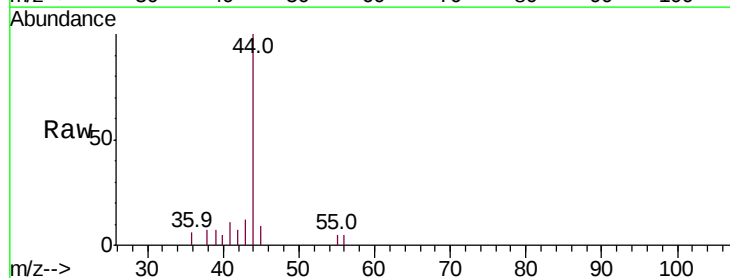
Tot Ion: 59 Resp: 8095
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#

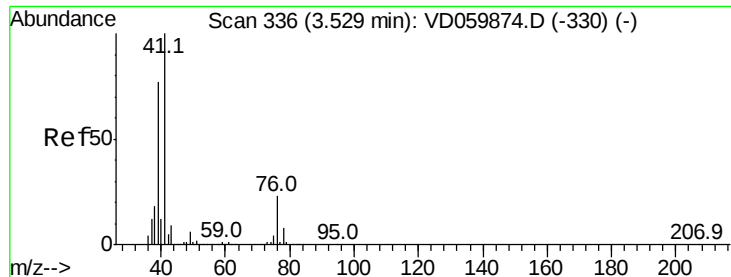


#13

Acrolein
Concen: 11.294 ug/l
RT: 3.06 min Scan# 288
Delta R.T. 0.08 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Tgt Ion: 56 Resp: 224
Ion Ratio Lower Upper
56 100
55 92.6 61.9 92.9

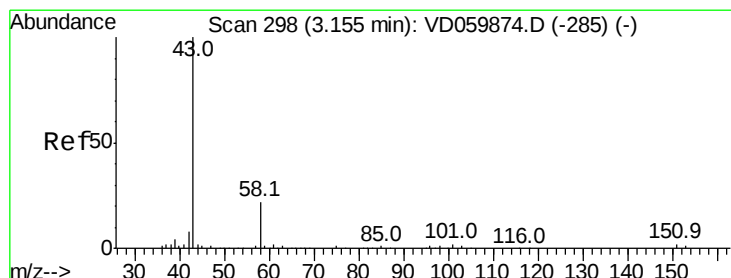
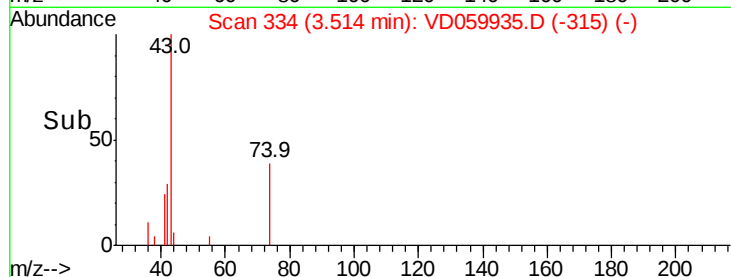
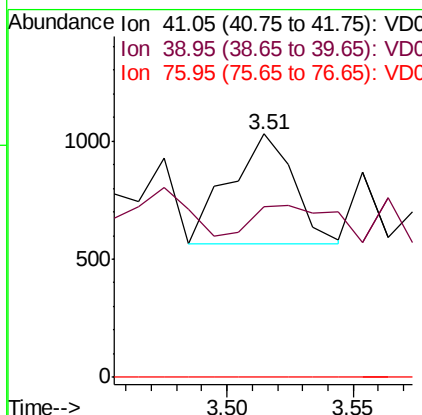
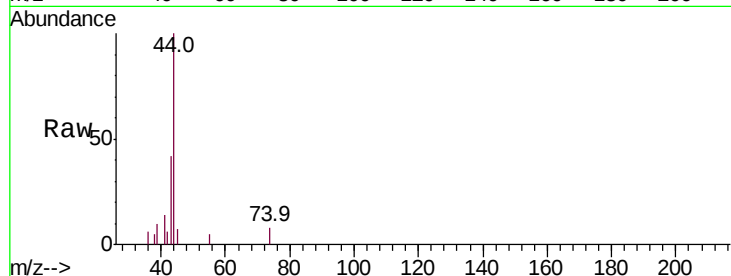




#14
Allvl chloride
Concen: 1.470 ug/l
RT: 3.51 min Scan# 334
Delta R.T. -0.01 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

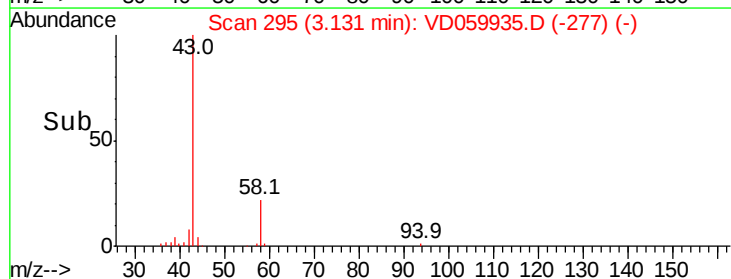
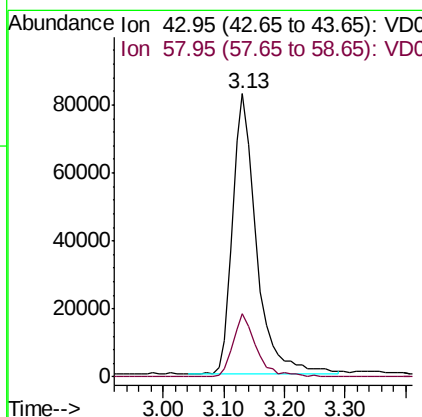
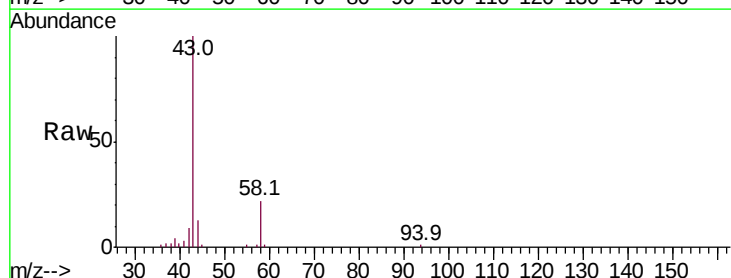
Instrument :
MSVOA_D
ClientSampleId :
CL-02-082918-A

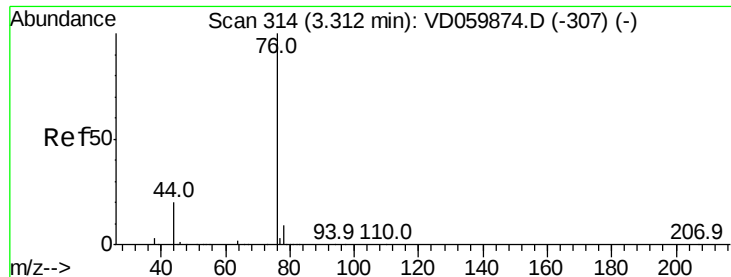
Tot Ion: 41 Resp: 828
Ion Ratio Lower Upper
41 100
39 69.9 61.8 92.6
76 0.0 19.4 29.2#



#16
Acetone
Concen: 2070.197 ug/l
RT: 3.13 min Scan# 295
Delta R.T. -0.02 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Tgt Ion: 43 Resp: 226038
Ion Ratio Lower Upper
43 100
58 22.1 17.6 26.4

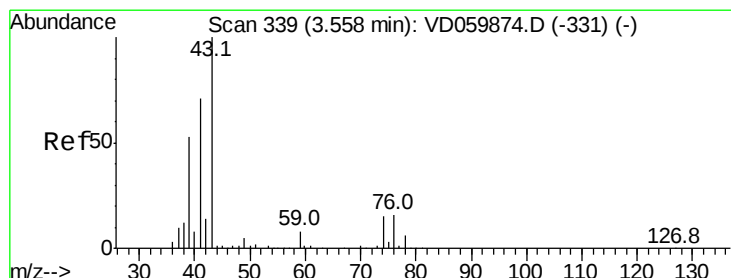
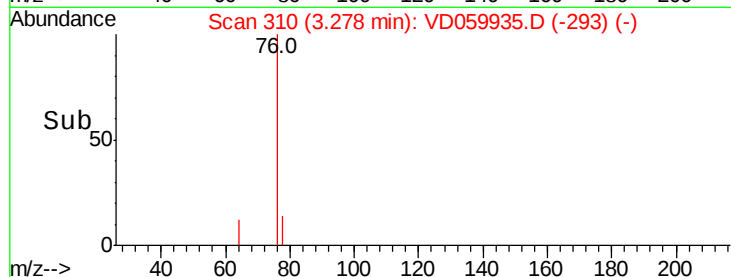
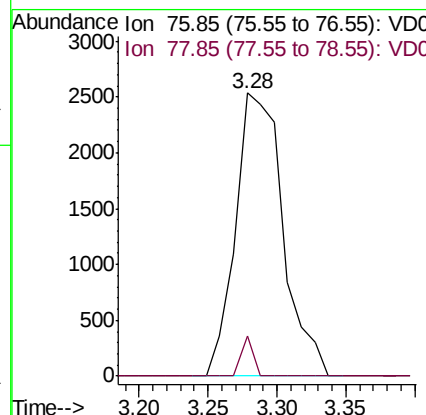
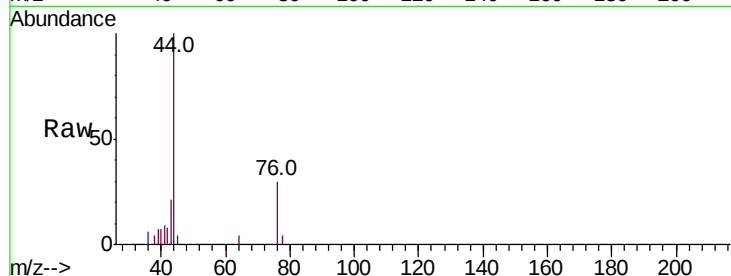




#17
Carbon Disulfide
Concen: 7.849 ug/l
RT: 3.28 min Scan# 310
Delta R.T. -0.03 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

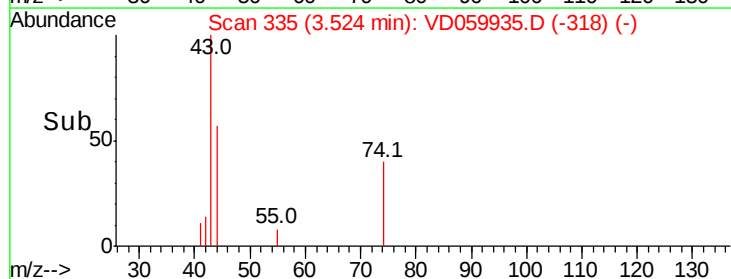
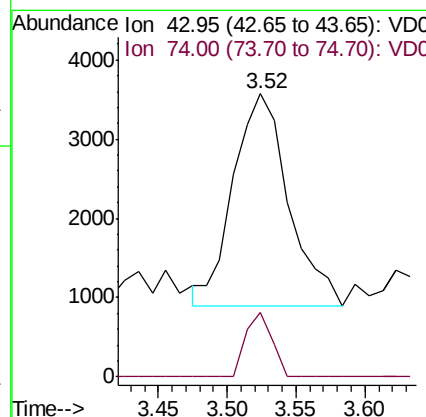
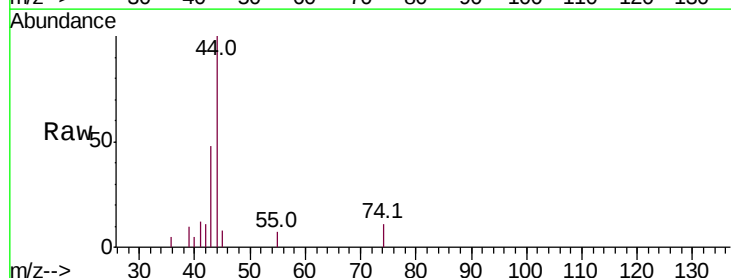
Instrument :
MSVOA_D
ClientSampleId :
CL-02-082918-A

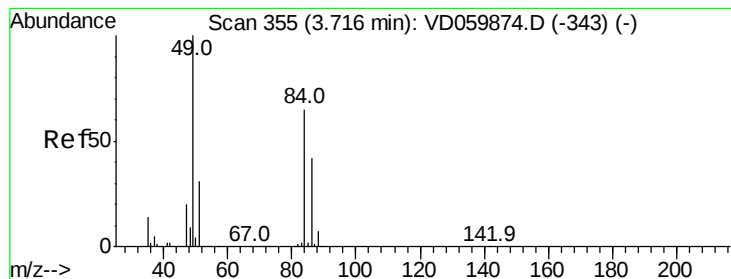
Tot Ion: 76 Resp: 6067
Ion Ratio Lower Upper
76 100
78 14.1 7.4 11.2#



#18
Methyl Acetate
Concen: 33.032 ug/l
RT: 3.52 min Scan# 335
Delta R.T. -0.03 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Tgt Ion: 43 Resp: 7529
Ion Ratio Lower Upper
43 100
74 22.8 11.2 16.8#





#20

Methylene Chloride

Concen: 7.915 ug/l

RT: 3.68 min Scan# 351

Delta R.T. -0.03 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

Instrument :

MSVOA_D

ClientSampleId :

CL-02-082918-A

Tot Ion: 84 Resp: 8051

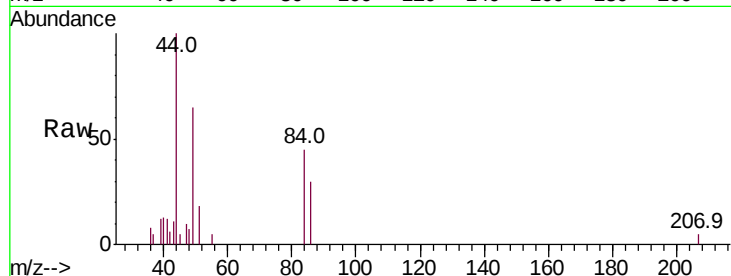
Ion Ratio Lower Upper

84 100

49 144.5 122.6 183.8

51 39.9 38.4 57.6

86 67.5 51.5 77.3

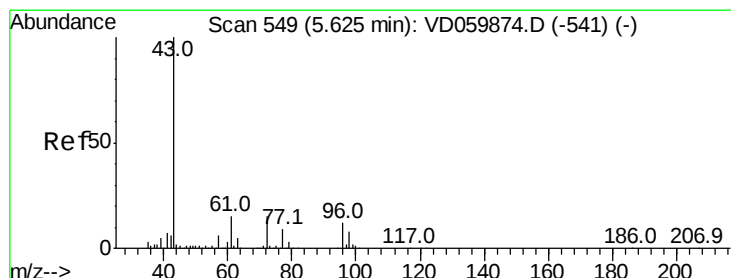
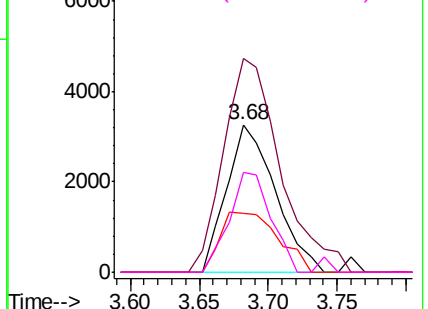
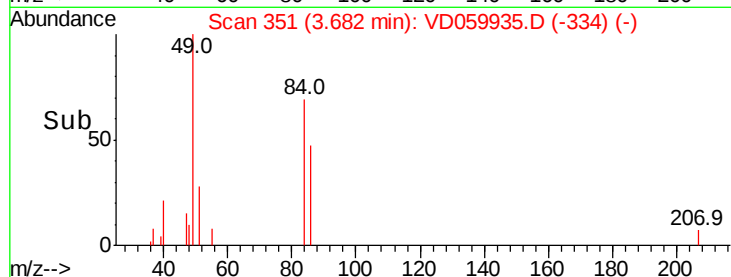


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 276.949 ug/l

RT: 5.59 min Scan# 545

Delta R.T. -0.03 min

Lab File: VD059935.D

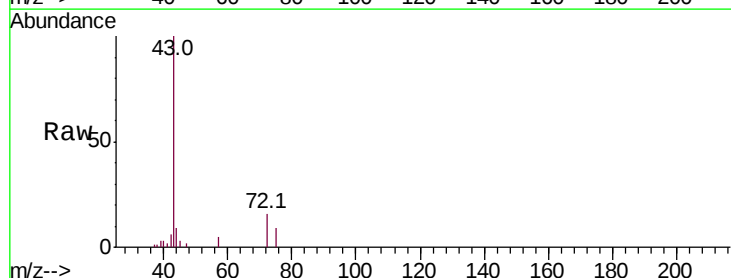
Acq: 31 Aug 2018 14:56

Tgt Ion: 43 Resp: 89559

Ion Ratio Lower Upper

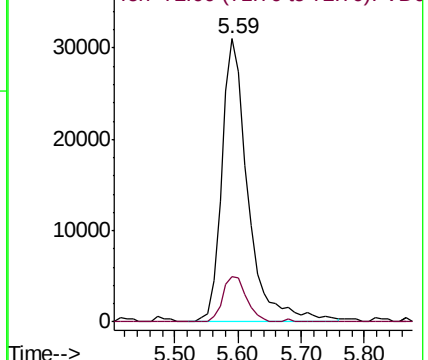
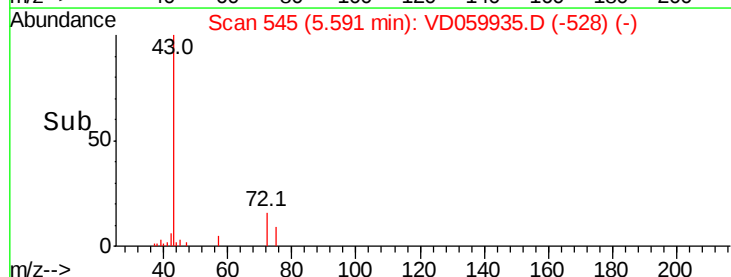
43 100

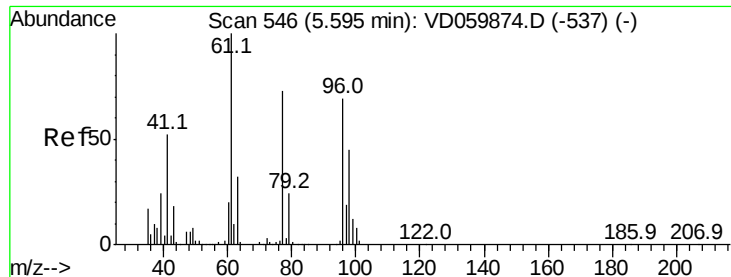
72 16.2 12.3 18.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 1.510 ug/l

RT: 5.62 min Scan# 548

Delta R.T. 0.03 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

Instrument :

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ClientSampleId :

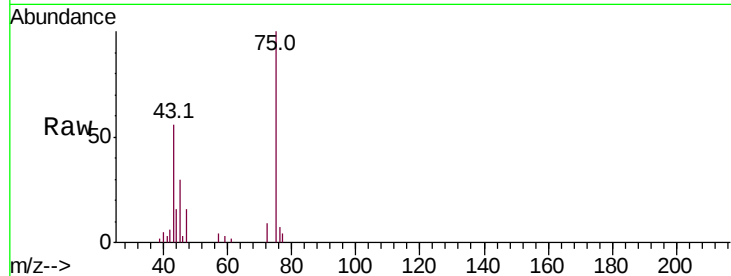
CL-02-082918-A

Tot Ion: 77 Resp: 1567

Ion Ratio Lower Upper

77 100

97 0.0 13.0 38.9#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

5.62

800

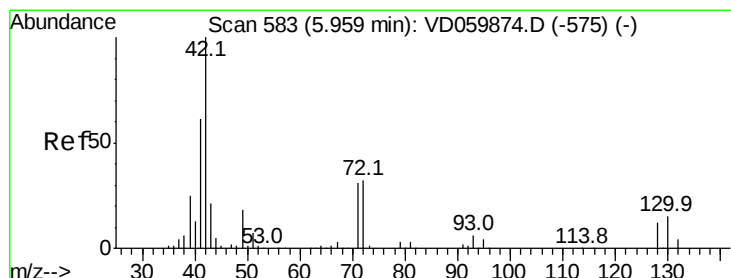
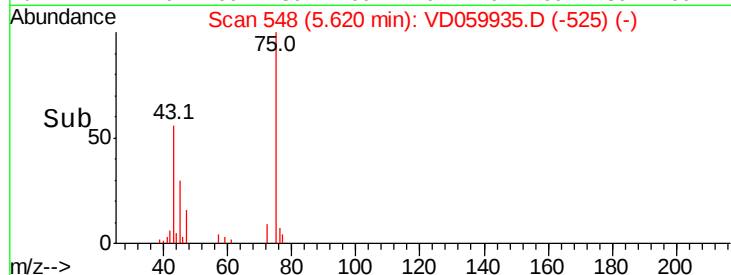
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 11.354 ug/l

RT: 5.93 min Scan# 579

Delta R.T. -0.03 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

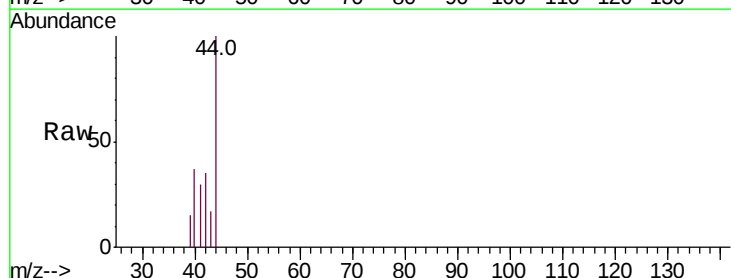
Tgt Ion: 42 Resp: 1748

Ion Ratio Lower Upper

42 100

72 0.0 25.7 38.5#

71 11.5 25.3 37.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

1000

800

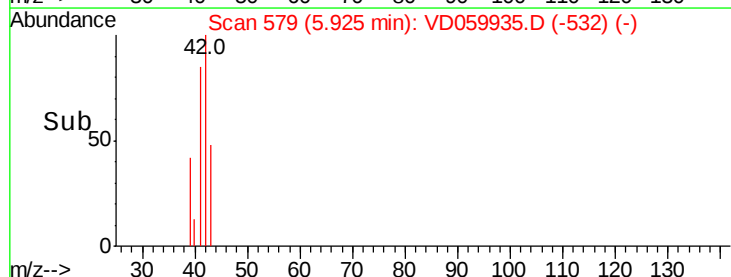
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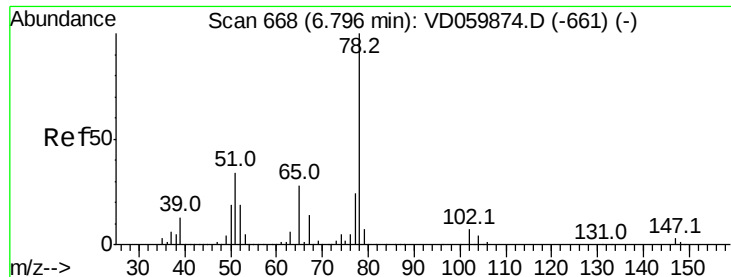
400

200

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.76 min Scan# 664

Delta R.T. -0.03 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

Instrument :

MSVOA_D

ClientSampleId :

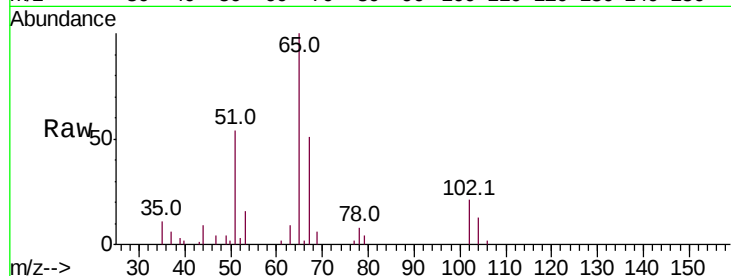
CL-02-082918-A

Tot Ion: 65 Resp: 68902

Ion Ratio Lower Upper

65 100

67 50.7 0.0 103.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.76

30000

25000

20000

15000

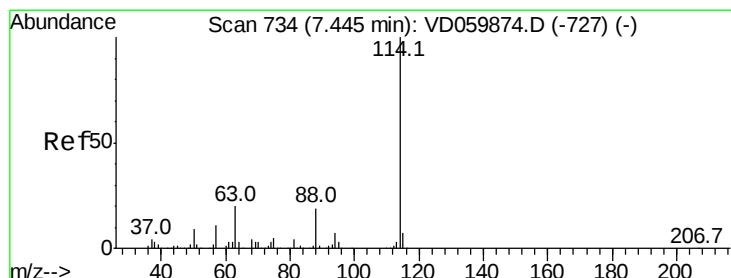
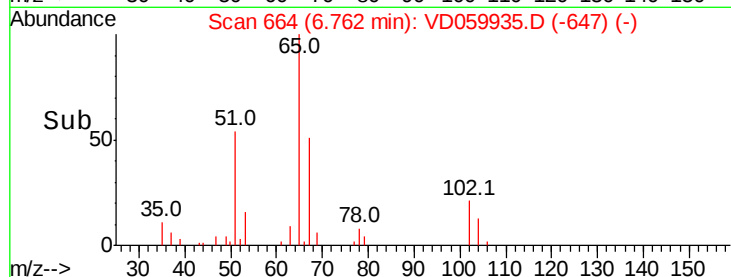
10000

5000

0

6.70 6.80 6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.42 min Scan# 731

Delta R.T. -0.02 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

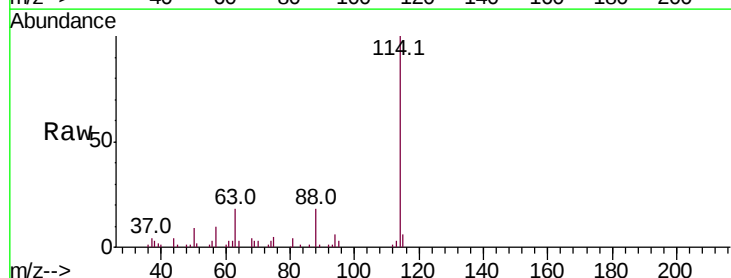
Tgt Ion:114 Resp: 155714

Ion Ratio Lower Upper

114 100

63 18.1 0.0 39.4

88 18.3 0.0 37.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

7.42

80000

60000

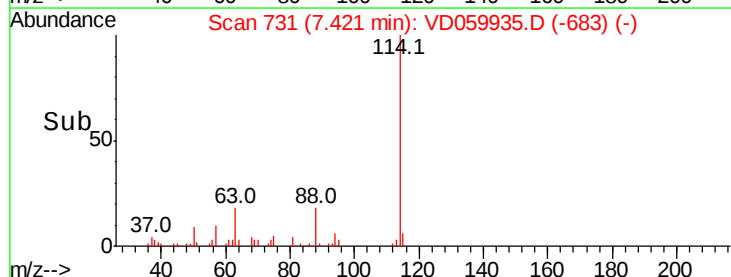
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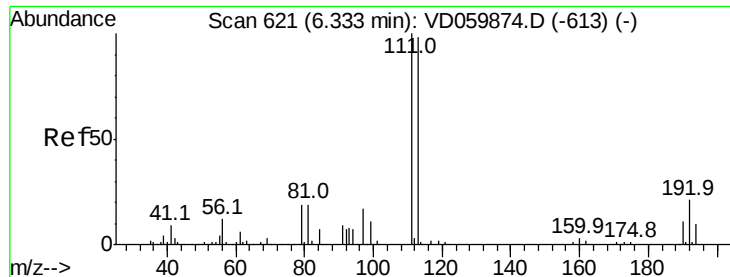
20000

0

7.30 7.40 7.50 7.60

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.30 min Scan# 617

Delta R.T. -0.03 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

Instrument :

MSVOA_D

ClientSampleId :

CL-02-082918-A

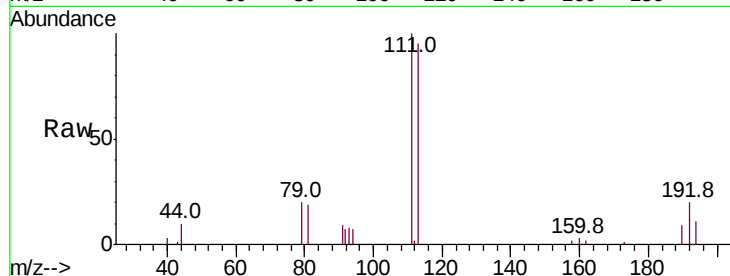
Tot Ion:113 Resp: 59531

Ion Ratio Lower Upper

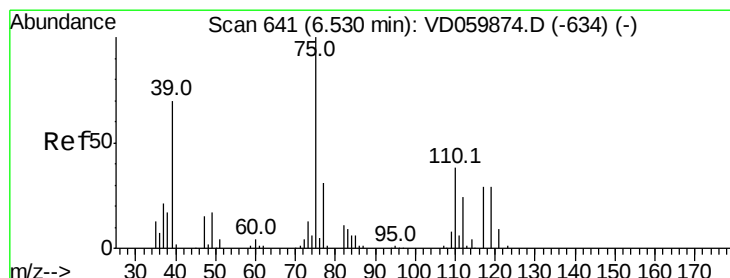
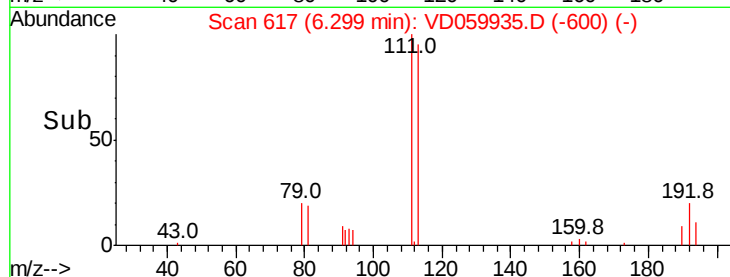
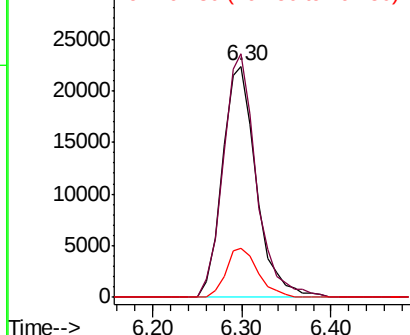
113 100

111 105.3 81.4 122.2

192 21.1 17.0 25.6



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: 3.709 ug/l

RT: 6.37 min Scan# 624

Delta R.T. -0.16 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

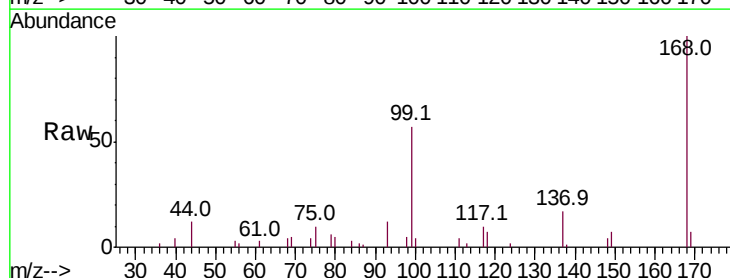
Tgt Ion: 75 Resp: 5235

Ion Ratio Lower Upper

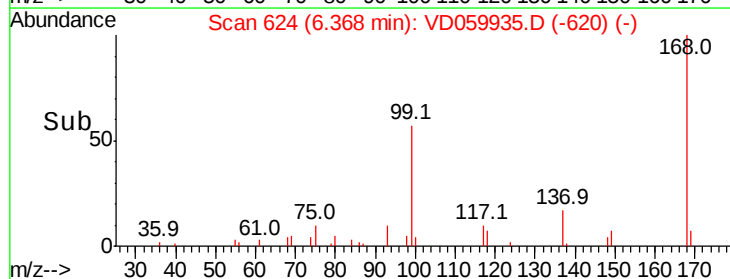
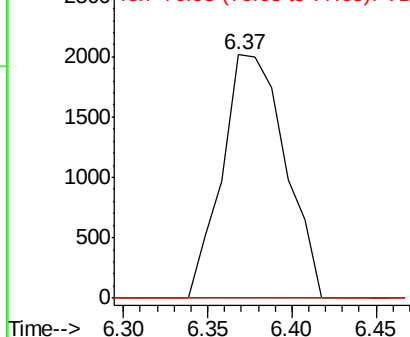
75 100

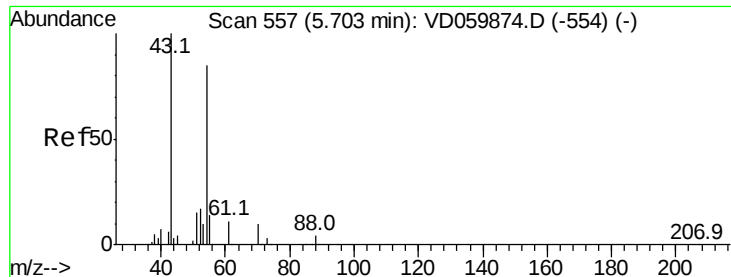
110 0.0 18.6 56.0#

77 0.0 25.1 37.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

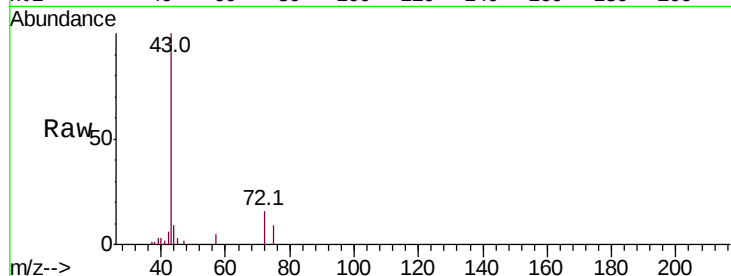




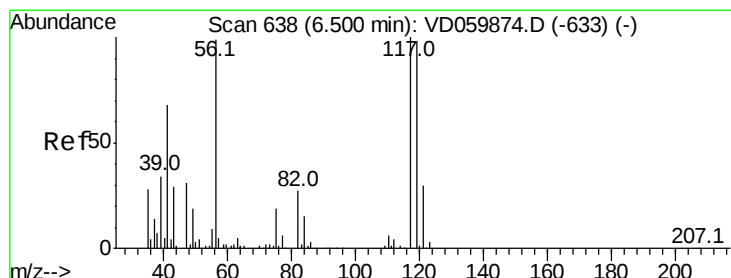
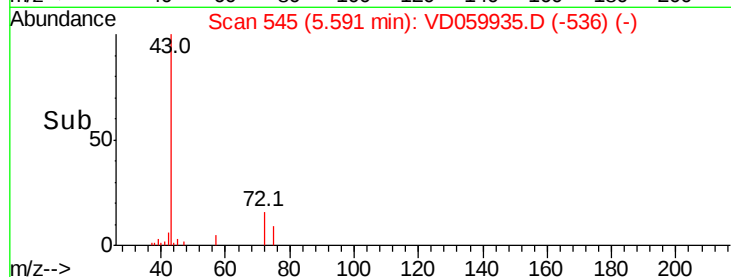
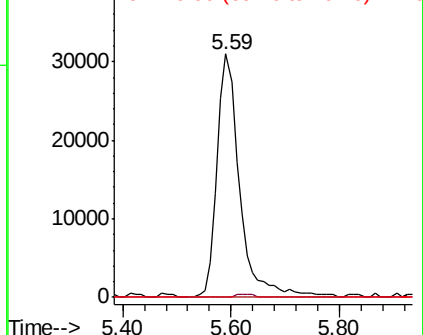
#37
Ethyl Acetate
Concen: 82.103 ug/l
RT: 5.59 min Scan# 545
Delta R.T. -0.11 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Instrument :
MSVOA_D
ClientSampleId :
CL-02-082918-A

Tot Ion: 43 Resp: 90183
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 0.0 5.7 8.5#

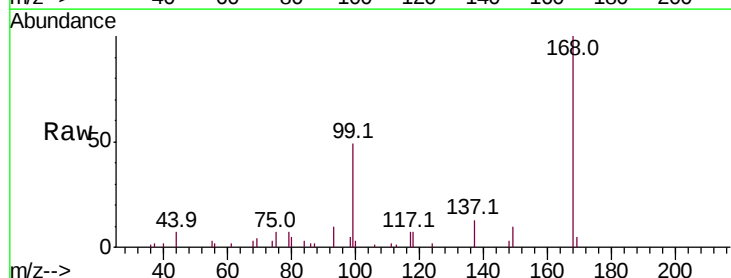


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

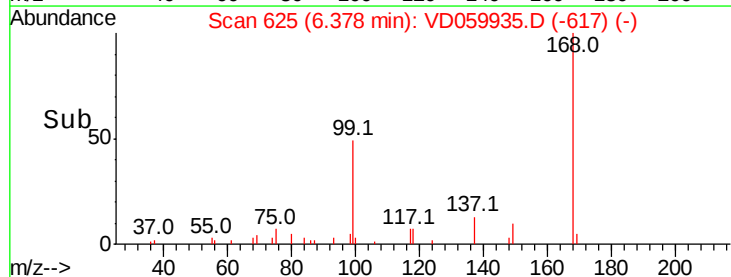
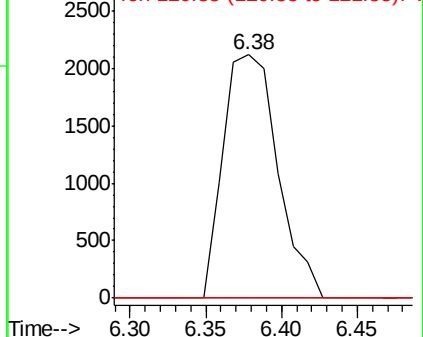


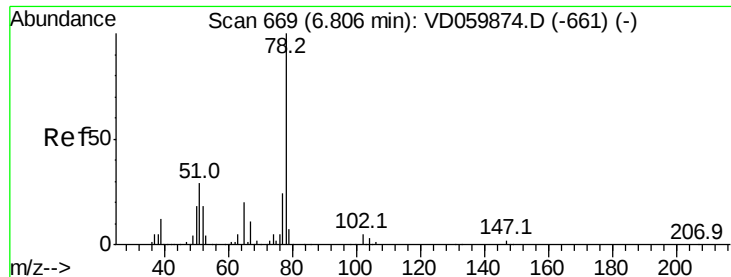
#38
Carbon Tetrachloride
Concen: 3.741 ug/l
RT: 6.38 min Scan# 625
Delta R.T. -0.12 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Tgt Ion: 117 Resp: 5329
Ion Ratio Lower Upper
117 100
119 0.0 77.2 115.8#
121 0.0 24.0 36.0#



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





#40

Benzene

Concen: 1.541 ug/l

RT: 6.76 min Scan# 664

Delta R.T. -0.04 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

Instrument :

MSVOA_D

ClientSampleId :

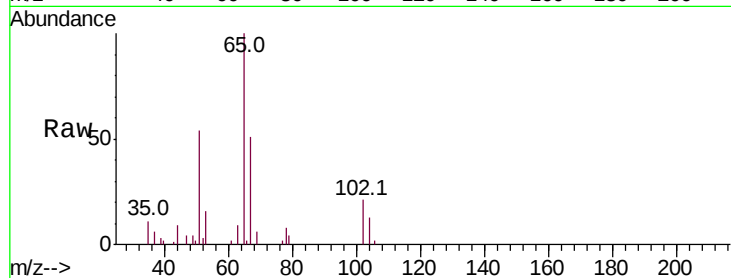
CL-02-082918-A

Tot Ion: 78 Resp: 5655

Ion Ratio Lower Upper

78 100

77 27.0 19.0 28.4



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

2500

2000

1500

1000

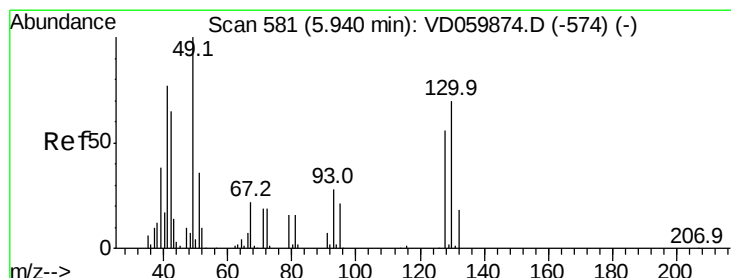
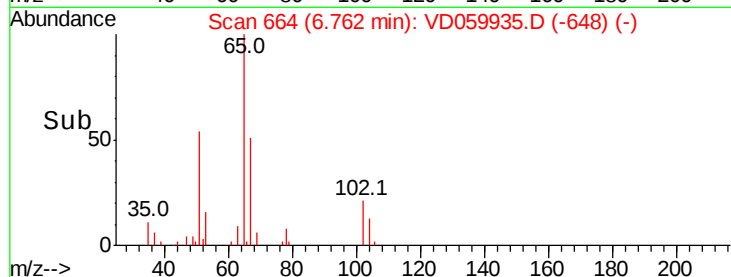
500

0

6.70 6.75 6.80 6.85

6.76

Time-->



#41

Methacrylonitrile

Concen: 3.743 ug/l

RT: 5.93 min Scan# 579

Delta R.T. -0.01 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

Tgt Ion: 41 Resp: 2071

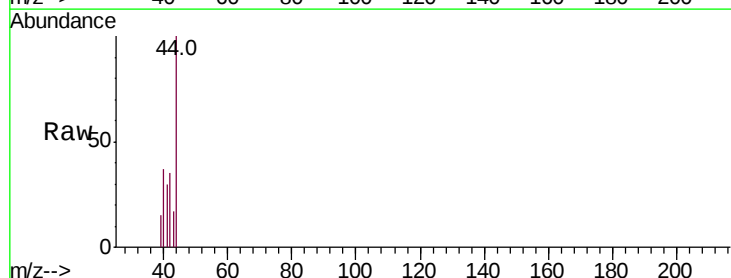
Ion Ratio Lower Upper

41 100

39 49.2 39.4 59.2

67 0.0 22.2 33.2#

52 0.0 10.1 15.1#



Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

1000

800

600

400

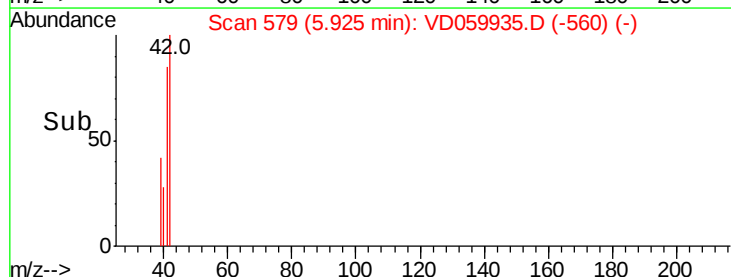
200

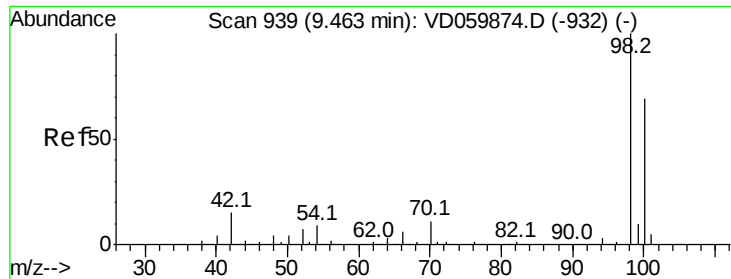
0

5.85 5.90 5.95 6.00

5.93

Time-->

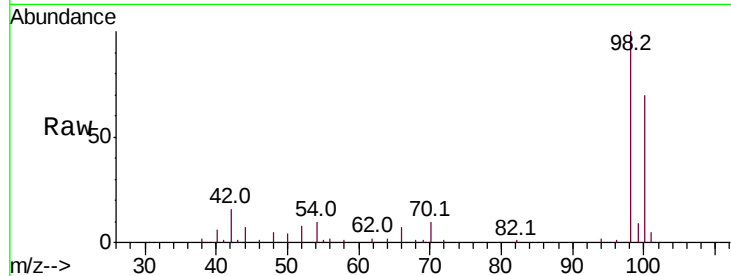




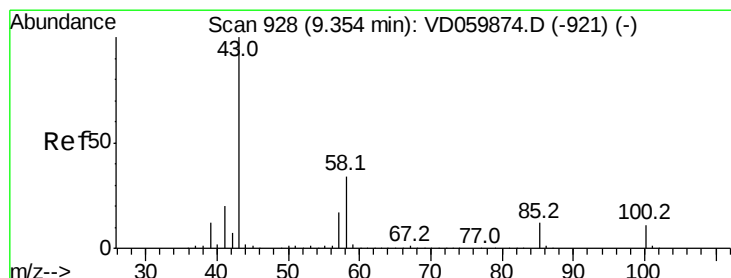
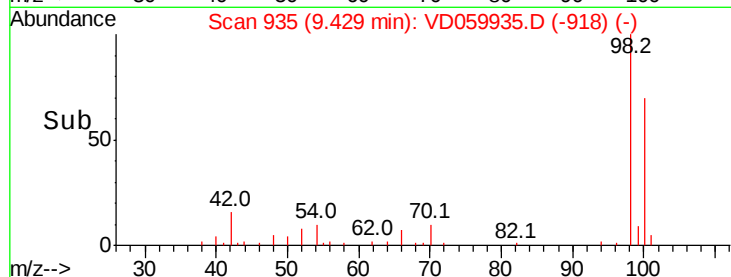
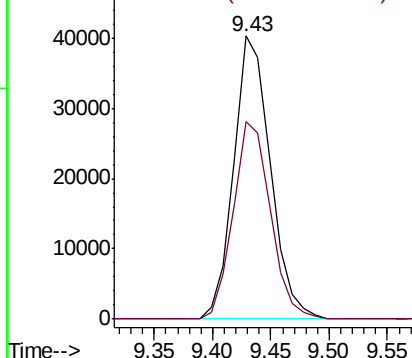
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.43 min Scan# 935
Delta R.T. -0.03 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Instrument :
MSVOA_D
ClientSampleId :
CL-02-082918-A

Tot Ion: 98 Resp: 87878
Ion Ratio Lower Upper
98 100
100 69.6 55.8 83.6

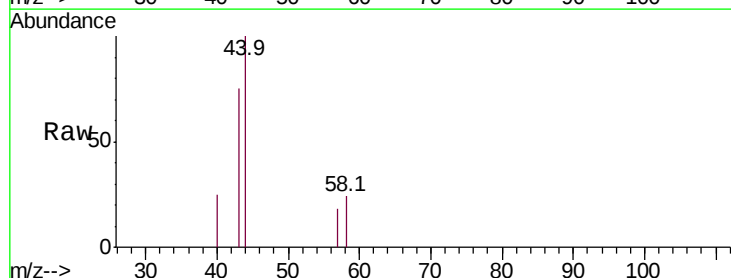


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

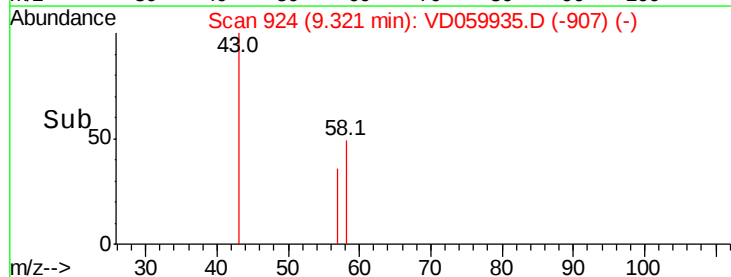
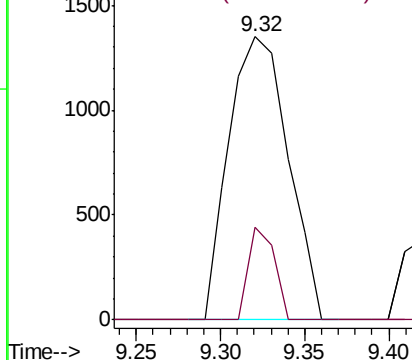


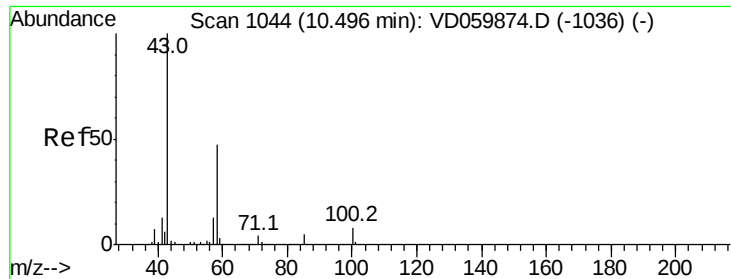
#51
4-Methyl-2-Pentanone
Concen: 3.102 ug/l
RT: 9.32 min Scan# 924
Delta R.T. -0.03 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Tgt Ion: 43 Resp: 3305
Ion Ratio Lower Upper
43 100
58 32.8 27.0 40.4



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

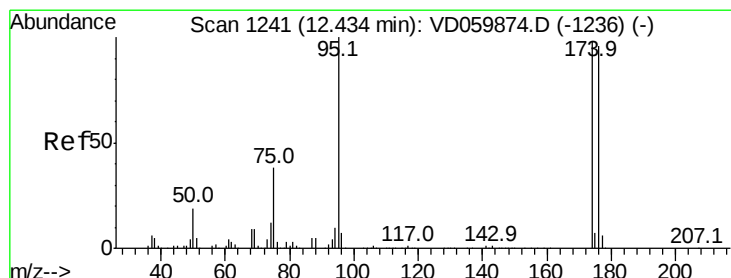
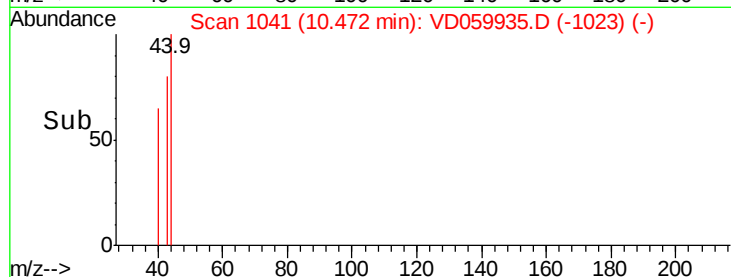
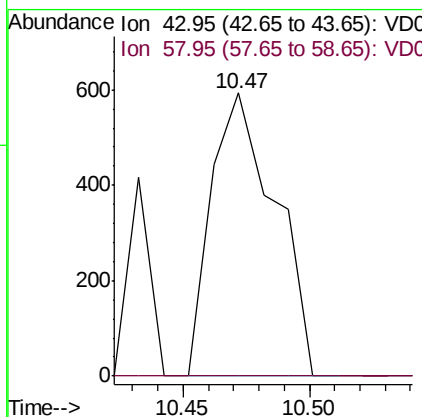
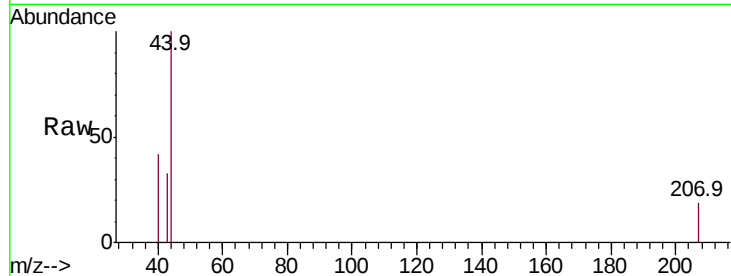




#59
2-Hexanone
Concen: 1.325 ug/l
RT: 10.47 min Scan# 1041
Delta R.T. -0.02 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

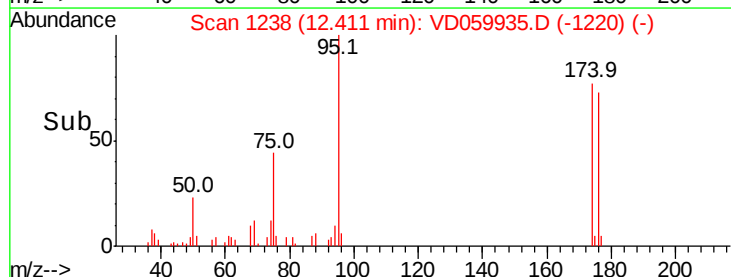
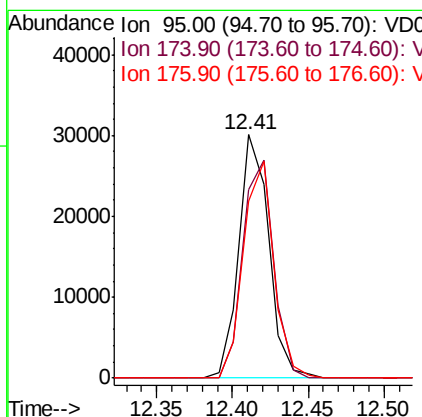
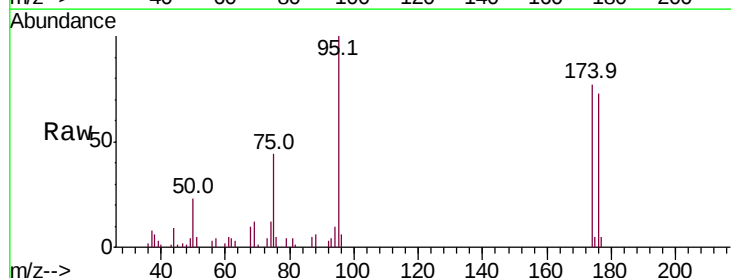
Instrument :
MSVOA_D
ClientSampleId :
CL-02-082918-A

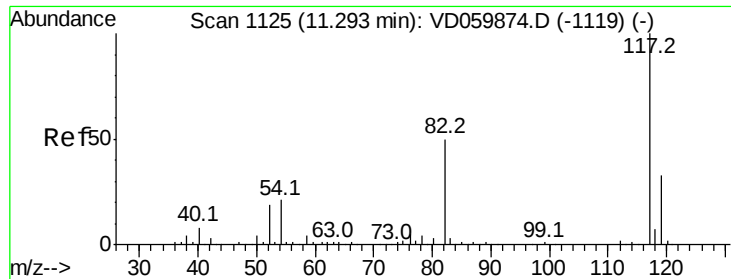
Tot Ion: 43 Resp: 1041
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.41 min Scan# 1238
Delta R.T. -0.02 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Tgt Ion: 95 Resp: 41258
Ion Ratio Lower Upper
95 100
174 77.3 0.0 195.6
176 72.8 0.0 191.2

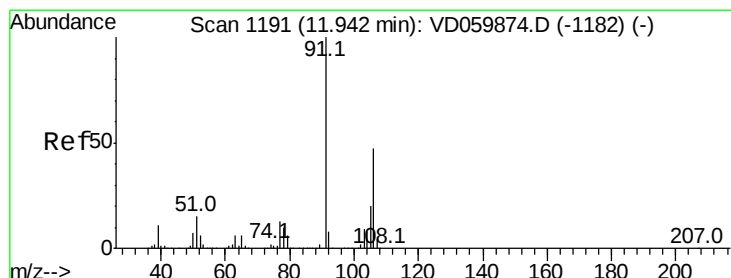
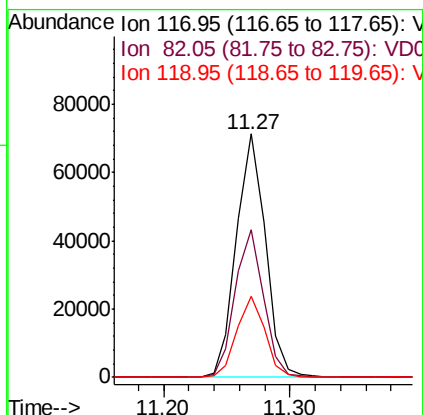
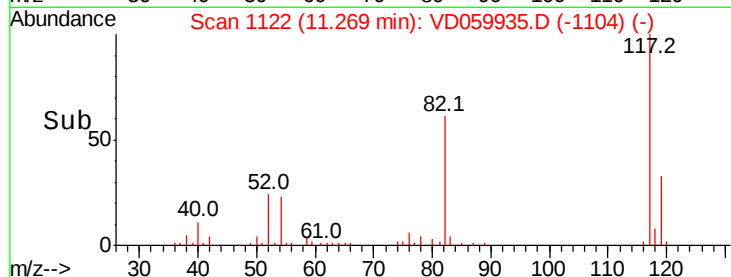
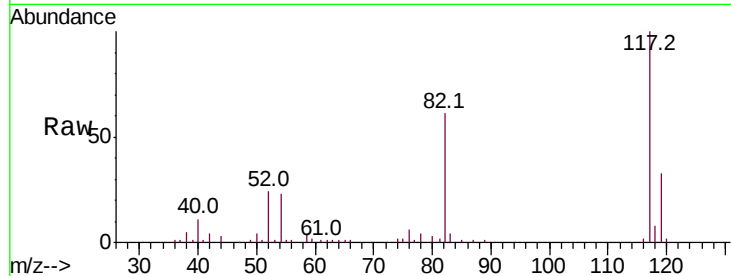




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 1122
Delta R.T. -0.02 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

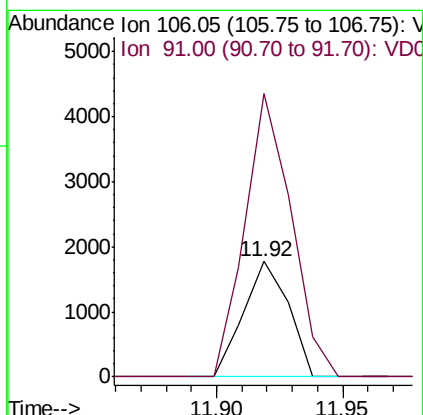
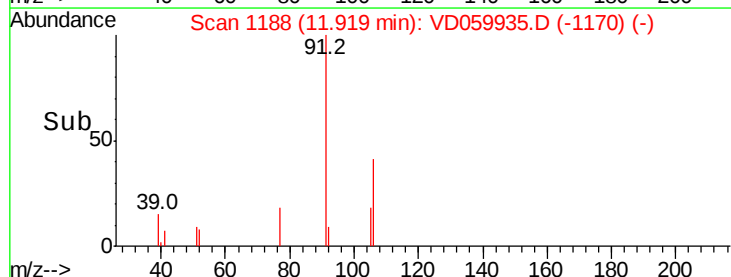
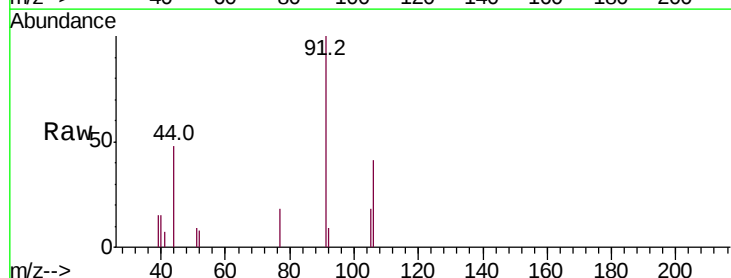
Instrument :
MSVOA_D
ClientSampleId :
CL-02-082918-A

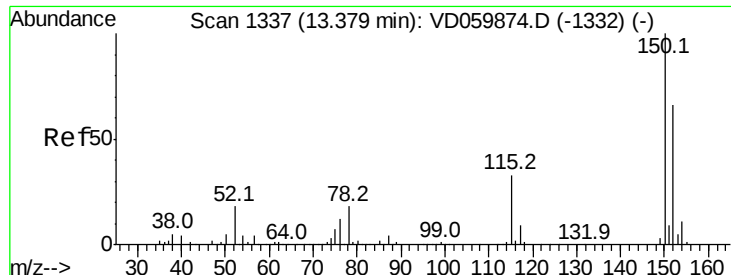
Tot Ion:117 Resp: 113895
Ion Ratio Lower Upper
117 100
82 60.7 40.1 60.1#
119 33.2 26.7 40.1



#69
o-Xylene
Concen: 1.614 ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.02 min
Lab File: VD059935.D
Acq: 31 Aug 2018 14:56

Tgt Ion:106 Resp: 2188
Ion Ratio Lower Upper
106 100
91 245.6 107.3 322.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

Instrument :

MSVOA_D

ClientSampleId :

CL-02-082918-A

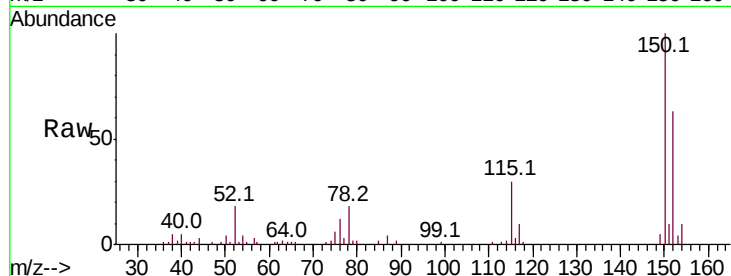
Tot Ion:152 Resp: 49018

Ion Ratio Lower Upper

152 100

115 47.3 25.7 77.0

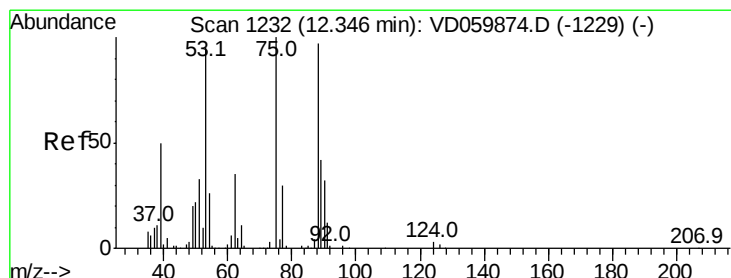
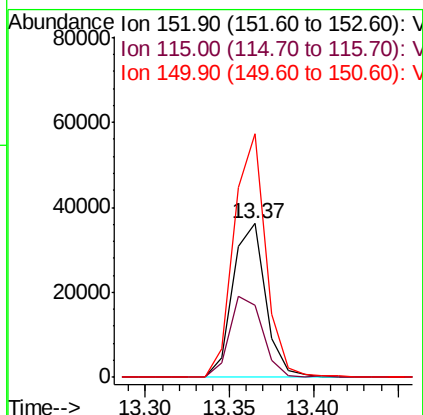
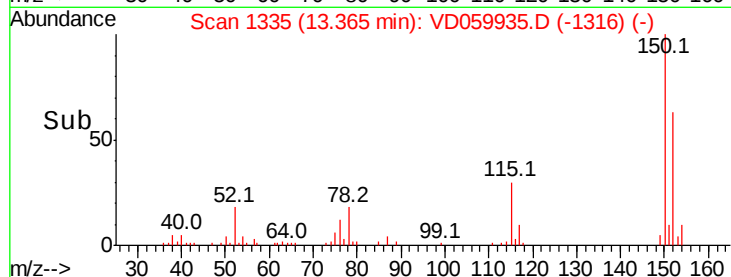
150 158.4 0.0 310.2



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: 76.465 ug/l

RT: 12.41 min Scan# 1238

Delta R.T. 0.06 min

Lab File: VD059935.D

Acq: 31 Aug 2018 14:56

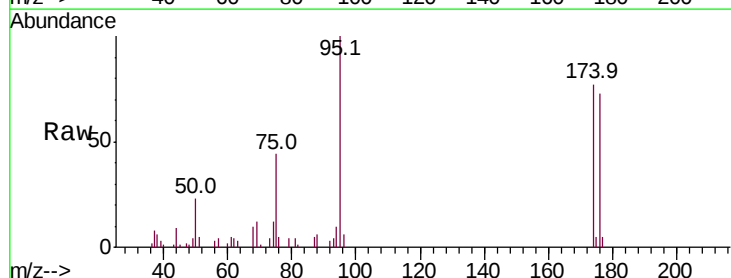
Tgt Ion: 75 Resp: 18121

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.6#

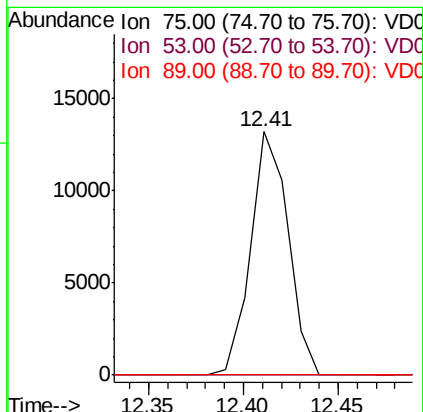
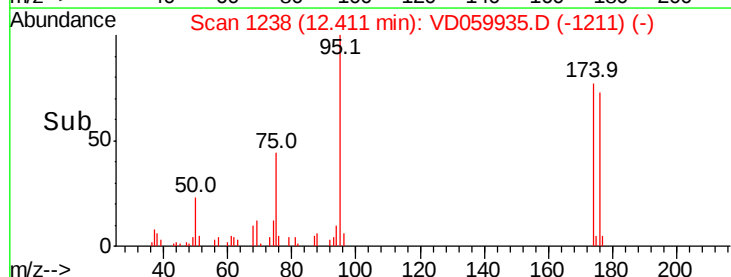
89 0.0 33.6 50.4#

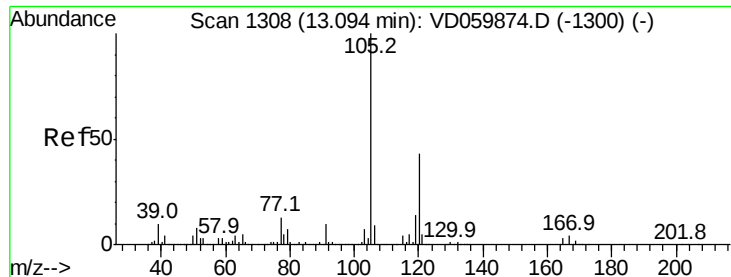


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

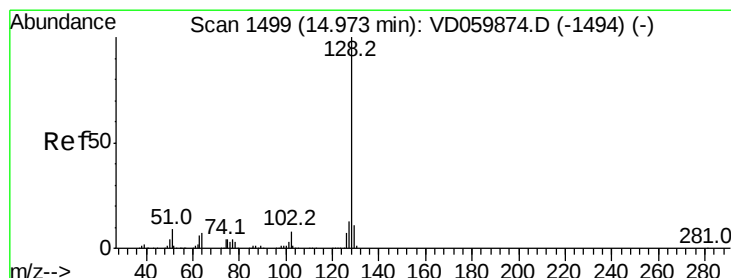
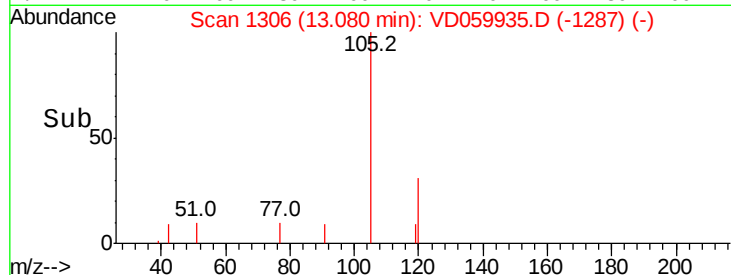
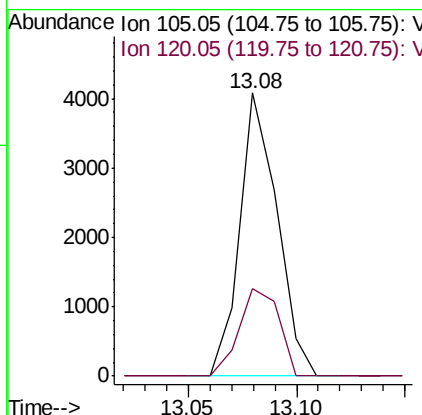
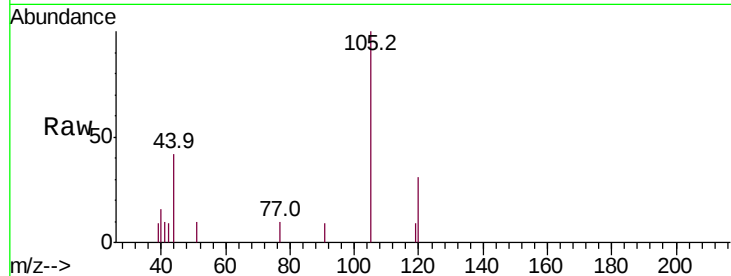




#84
 1,2,4-Trimethylbenzene
 Concen: 1.888 ug/l
 RT: 13.08 min Scan# 1306
 Delta R.T. -0.01 min
 Lab File: VD059935.D
 Acq: 31 Aug 2018 14:56

Instrument :
 MSVOA_D
 ClientSampleId :
 CL-02-082918-A

Tot Ion:105 Resp: 4895
 Ion Ratio Lower Upper
 105 100
 120 31.0 21.8 65.3



#95
 Naphthalene
 Concen: 19.068 ug/l
 RT: 14.96 min Scan# 1497
 Delta R.T. -0.01 min
 Lab File: VD059935.D
 Acq: 31 Aug 2018 14:56

Tgt Ion:128 Resp: 32857
 Ion Ratio Lower Upper
 128 100
 127 13.5 10.0 15.0
 129 10.1 8.6 13.0

