

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041919\
 Data File : VD061923.D
 Acq On : 19 Apr 2019 21:40
 Operator : VA/AP
 Sample : K2199-13
 Misc : 6.26g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 19 23:12:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	499266	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	795075	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	631865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	225465	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	215011	51.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.76%	
35) Dibromofluoromethane	6.93	113	312950	52.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.20%	
50) Toluene-d8	10.42	98	609954	42.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.72%	
62) 4-Bromofluorobenzene	13.56	95	257186	44.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.16%	

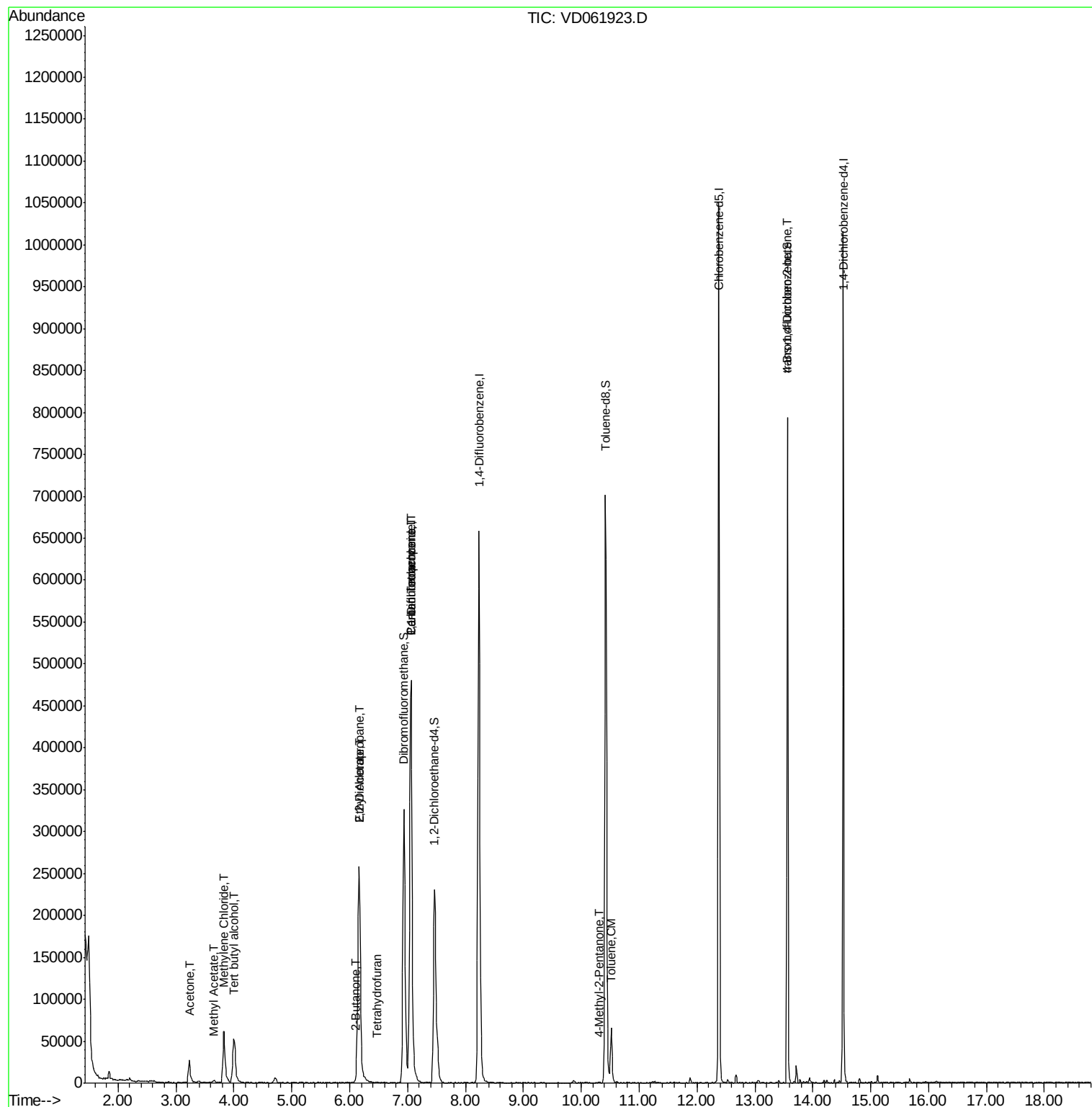
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	426	Below Cal	#	12
11) Tert butyl alcohol	4.00	59	50446	204.434	ug/l #	83
16) Acetone	3.23	43	50132	48.612	ug/l	95
18) Methyl Acetate	3.65	43	5817	2.814	ug/l #	53
20) Methylene Chloride	3.83	84	47729	5.201	ug/l	97
25) 2-Butanone	6.10	43	3342	2.846	ug/l #	56
26) 2,2-Dichloropropane	6.17	77	16981	2.373	ug/l #	51
29) Tetrahydrofuran	6.47	42	1032	1.804	ug/l #	30
36) 1,1-Dichloropropene	7.06	75	36699	5.649	ug/l #	48
37) Ethyl Acetate	6.17	43	16177	5.818	ug/l #	1
38) Carbon Tetrachloride	7.06	117	48964	5.968	ug/l #	15
51) 4-Methyl-2-Pentanone	10.31	43	2430	1.015	ug/l #	37
52) Toluene	10.52	92	35176	3.519	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.56	75	98982	99.606	ug/l #	16

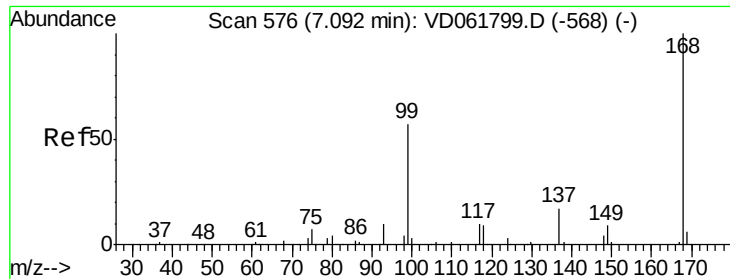
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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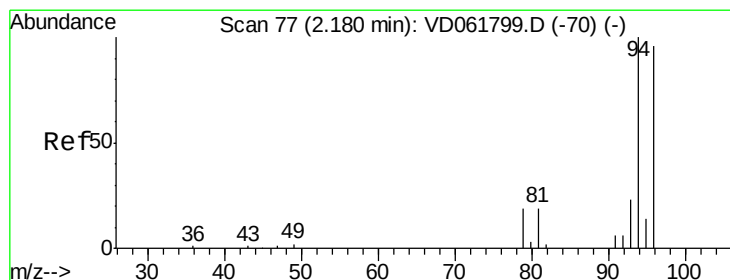
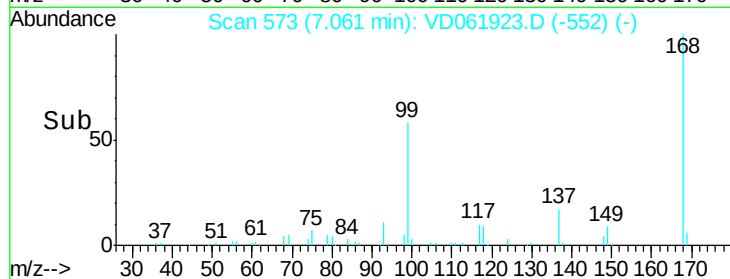
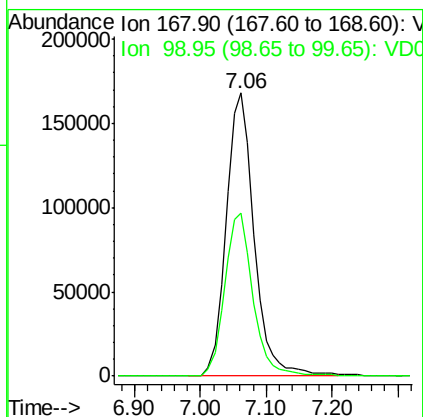
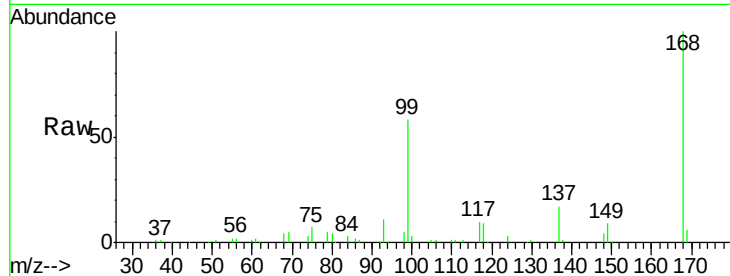




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.06 min Scan# 573
Delta R.T. 0.01 min
Lab File: VD061923.D
Acq: 19 Apr 2019 21:40

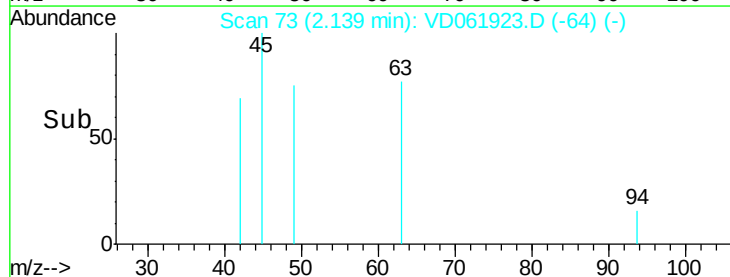
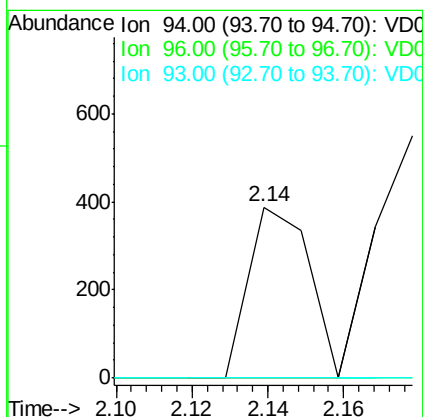
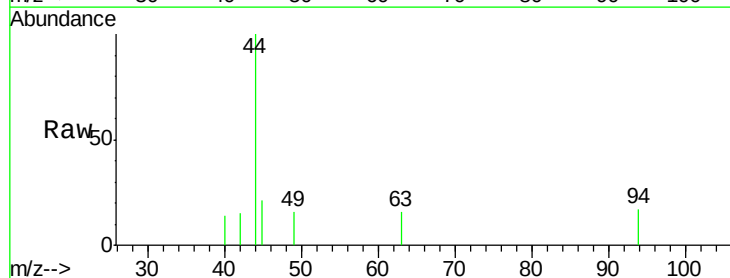
Instrument :
MSVOA_D
ClientSampleId :

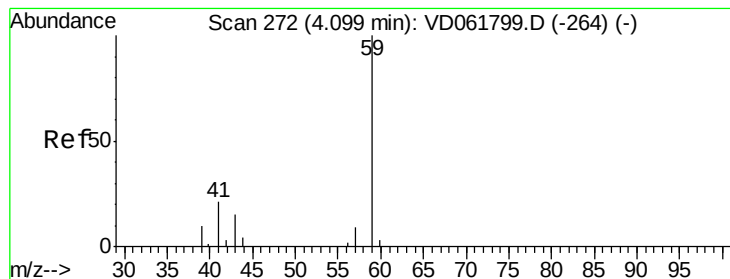
Tot Ion:168 Resp: 499266
Ion Ratio Lower Upper
168 100
99 57.8 46.5 69.7



#5
Bromomethane
Concen: Below Cal
RT: 2.14 min Scan# 73
Delta R.T. -0.01 min
Lab File: VD061923.D
Acq: 19 Apr 2019 21:40

Tgt Ion: 94 Resp: 426
Ion Ratio Lower Upper
94 100
96 0.0 76.6 115.0#
93 0.0 18.5 27.7#





#11

Tert butyl alcohol

Concen: 204.434 ug/l

RT: 4.00 min Scan# 262

Delta R.T. -0.06 min

Lab File: VD061923.D

Acq: 19 Apr 2019 21:40

Instrument :

MSVOA_D

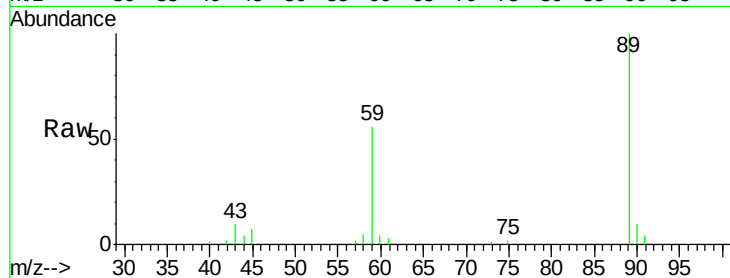
ClientSampleId :

Tot Ion: 59 Resp: 50446

Ion Ratio Lower Upper

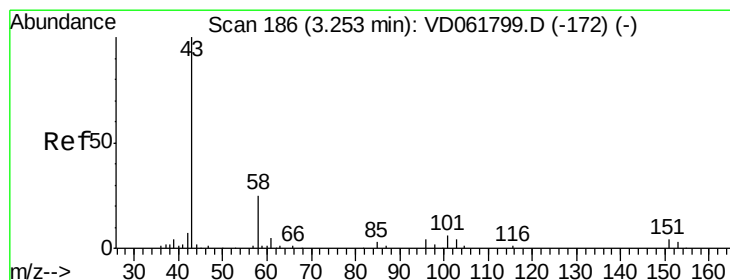
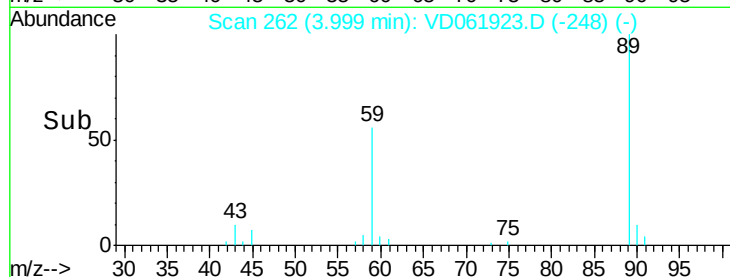
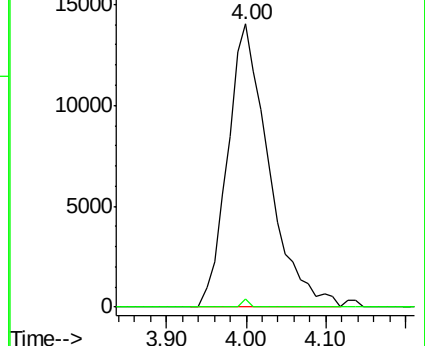
59 100

57 2.7 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#16

Acetone

Concen: 48.612 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD061923.D

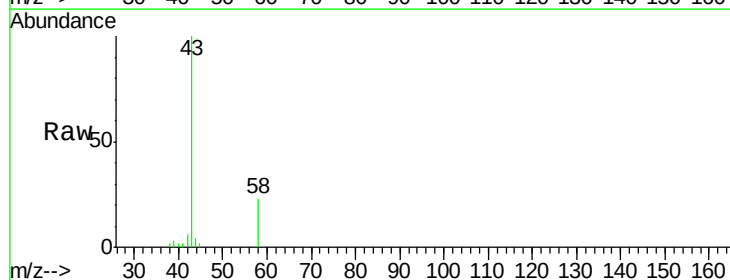
Acq: 19 Apr 2019 21:40

Tgt Ion: 43 Resp: 50132

Ion Ratio Lower Upper

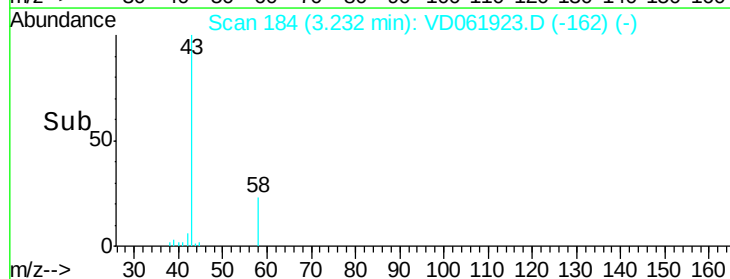
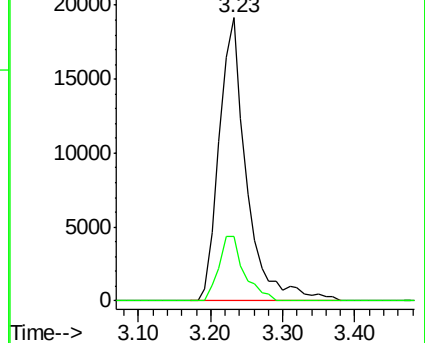
43 100

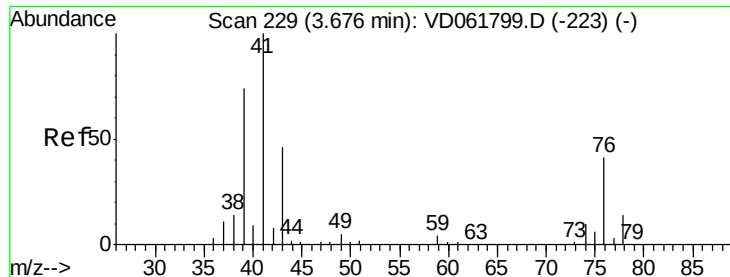
58 22.6 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

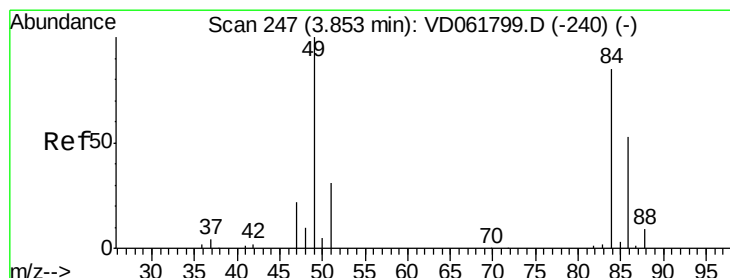
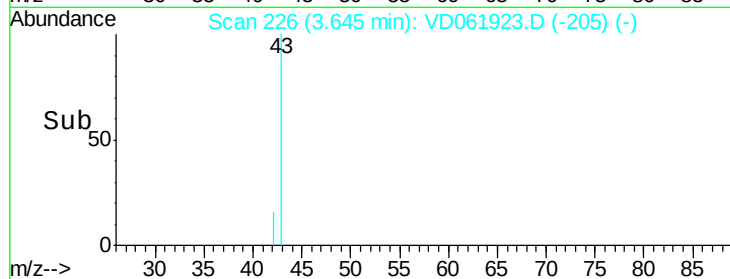
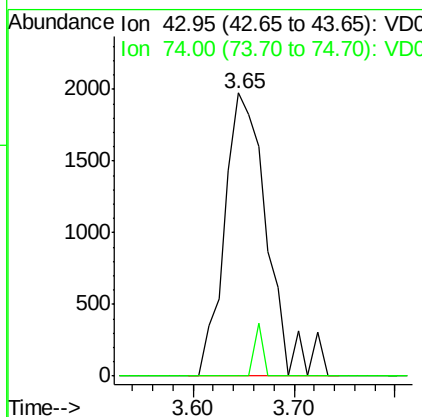
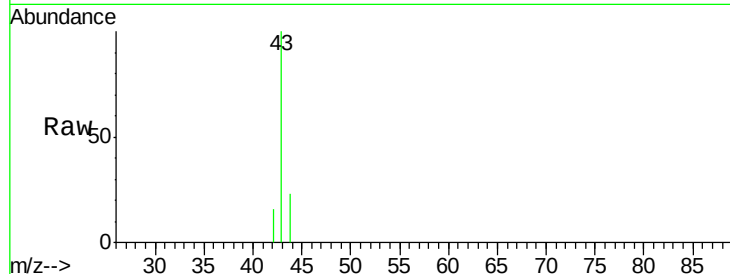




#18
Methyl Acetate
Concen: 2.814 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD061923.D
Acq: 19 Apr 2019 21:40

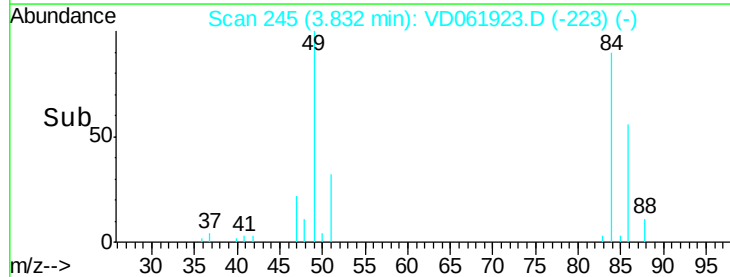
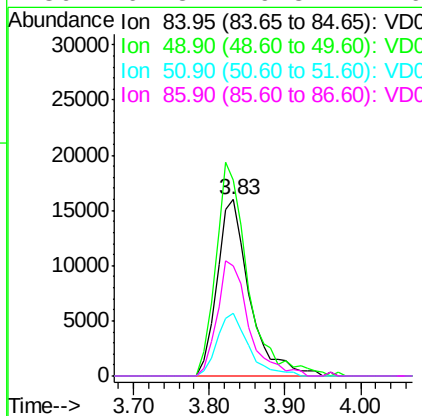
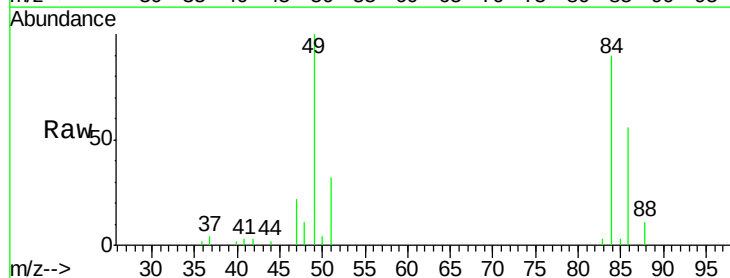
Instrument :
MSVOA_D
ClientSampleId :

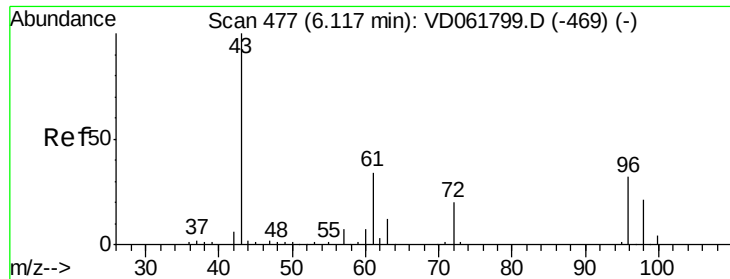
Tot Ion: 43 Resp: 5817
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 5.201 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.02 min
Lab File: VD061923.D
Acq: 19 Apr 2019 21:40

Tgt Ion: 84 Resp: 47729
Ion Ratio Lower Upper
84 100
49 111.4 94.0 141.0
51 35.5 29.0 43.4
86 62.3 49.8 74.6





#25

2-Butanone

Concen: 2.846 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.03 min

Lab File: VD061923.D

Acq: 19 Apr 2019 21:40

Instrument :

MSVOA_D

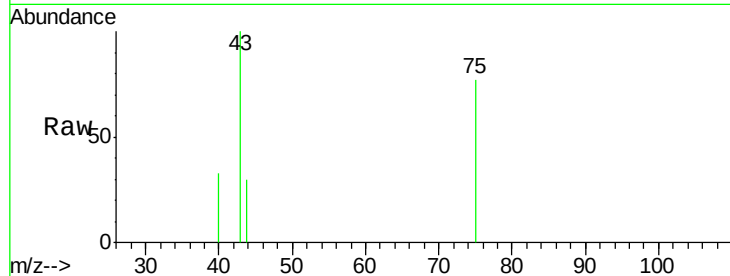
ClientSampled :

Tot Ion: 43 Resp: 3342

Ion Ratio Lower Upper

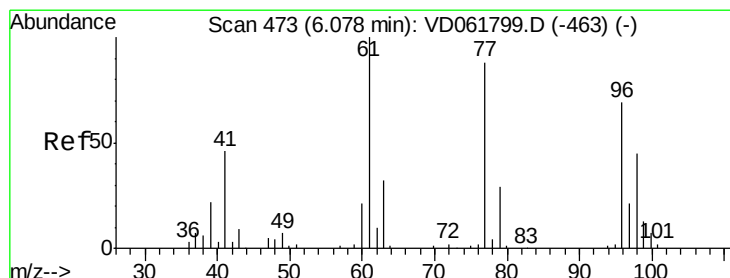
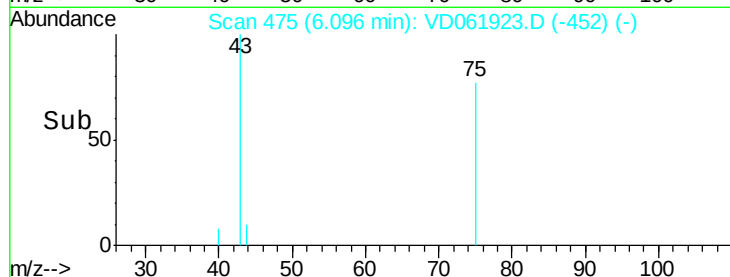
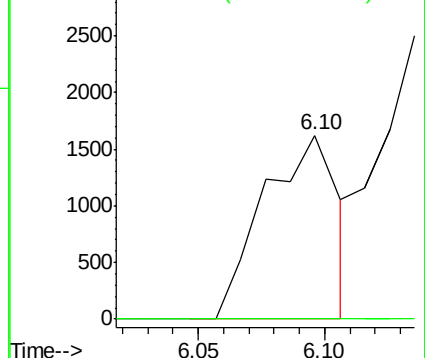
43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.373 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.15 min

Lab File: VD061923.D

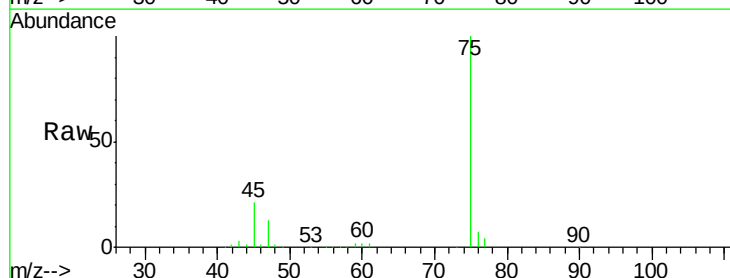
Acq: 19 Apr 2019 21:40

Tgt Ion: 77 Resp: 16981

Ion Ratio Lower Upper

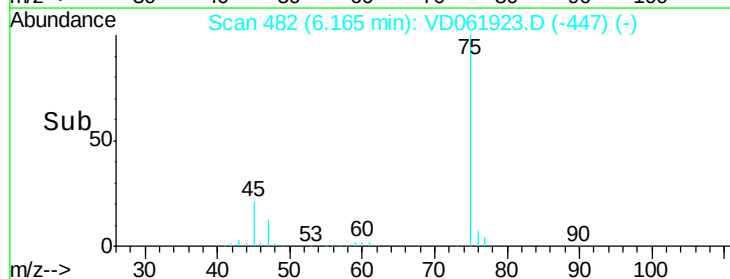
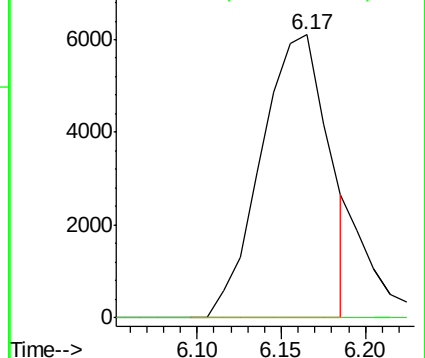
77 100

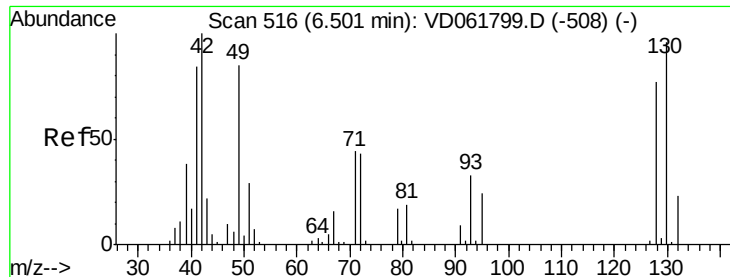
97 0.0 11.9 35.9#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 1.804 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.02 min

Lab File: VD061923.D

Acq: 19 Apr 2019 21:40

Instrument :

MSVOA_D

ClientSampled :

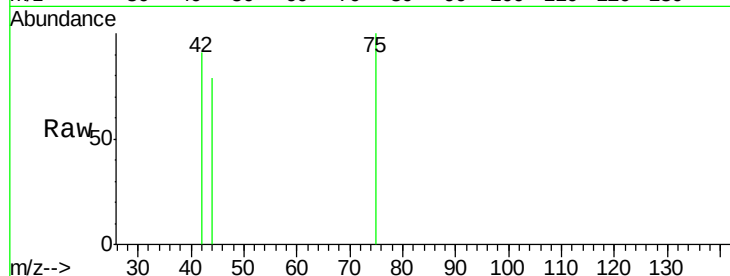
Tot Ion: 42 Resp: 1032

Ion Ratio Lower Upper

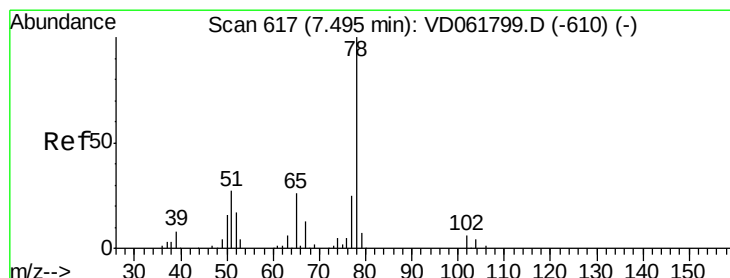
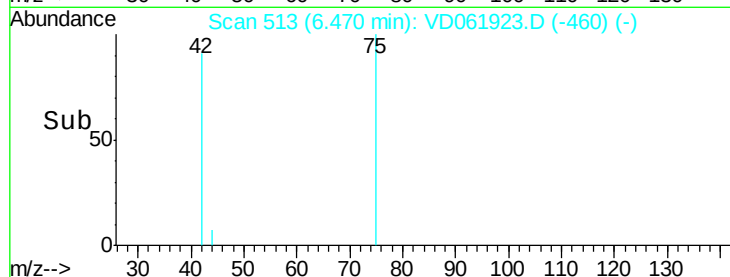
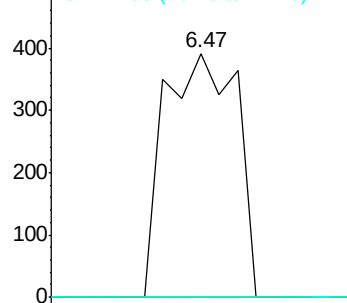
42 100

72 0.0 37.8 56.6#

71 0.0 36.7 55.1#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061923.D

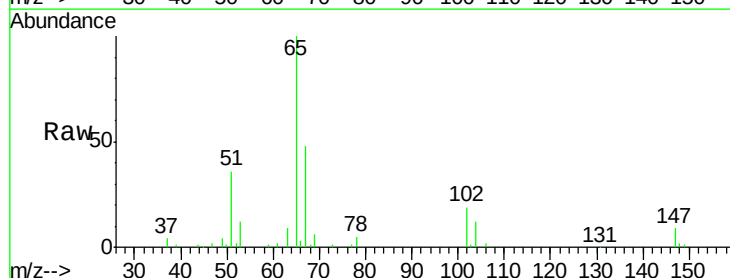
Acq: 19 Apr 2019 21:40

Tgt Ion: 65 Resp: 215011

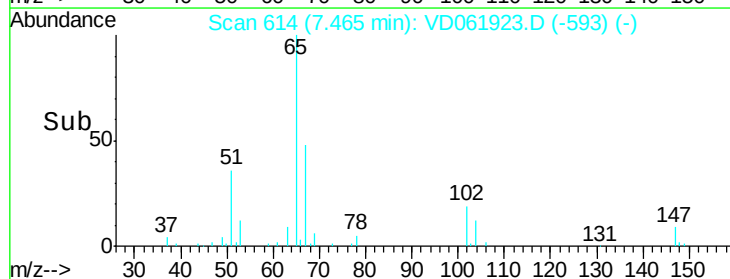
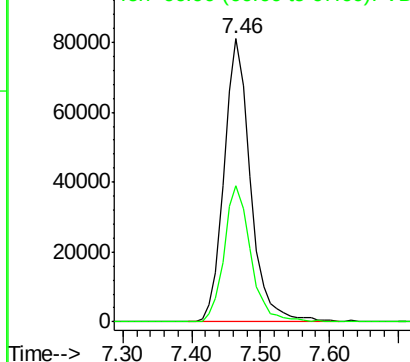
Ion Ratio Lower Upper

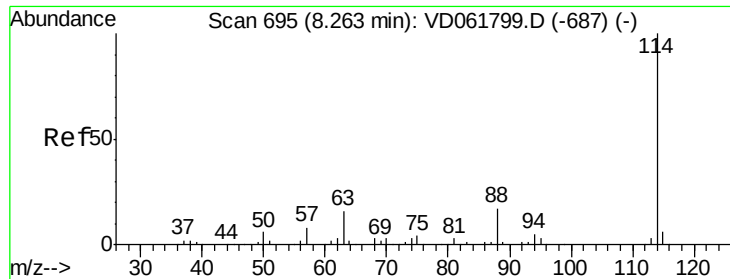
65 100

67 48.2 0.0 98.0



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: 8.23 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD061923.D

Acq: 19 Apr 2019 21:40

Instrument :

MSVOA_D

ClientSampleId :

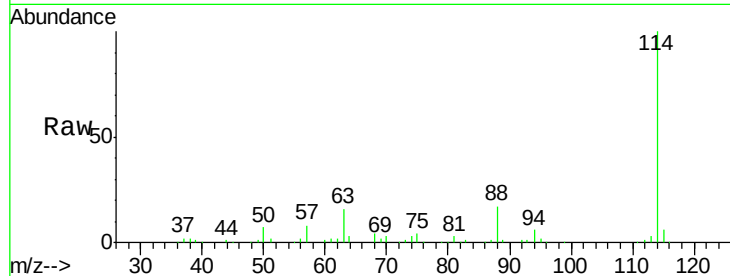
Tot Ion:114 Resp: 795075

Ion Ratio Lower Upper

114 100

63 15.9 0.0 32.4

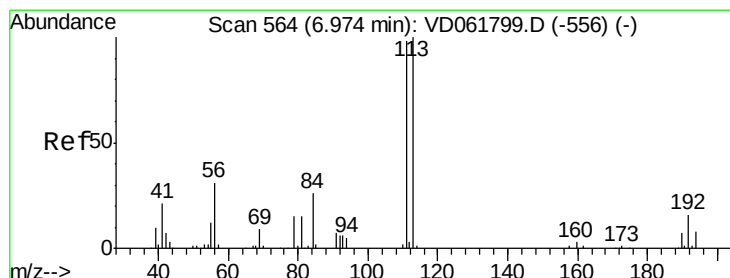
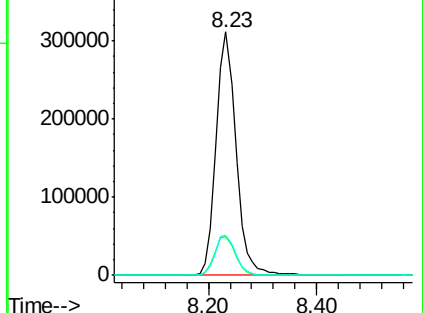
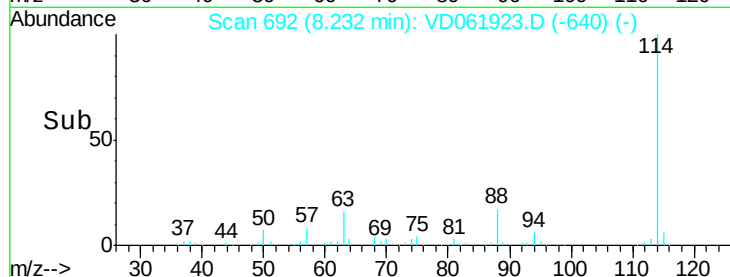
88 16.5 0.0 33.6



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: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061923.D

Acq: 19 Apr 2019 21:40

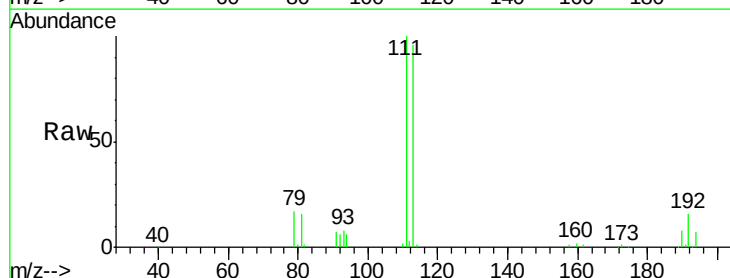
Tgt Ion:113 Resp: 312950

Ion Ratio Lower Upper

113 100

111 103.7 78.5 117.7

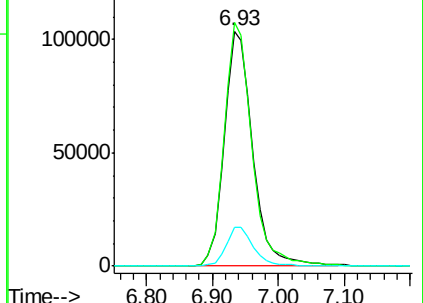
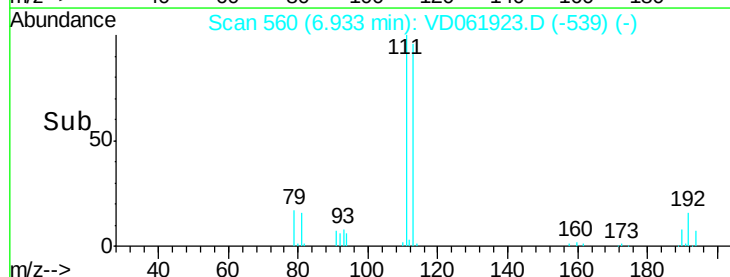
192 16.4 13.0 19.4

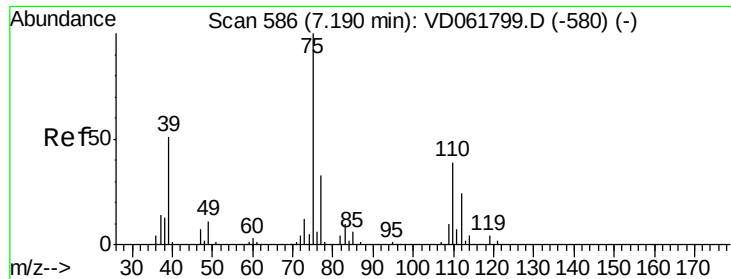


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

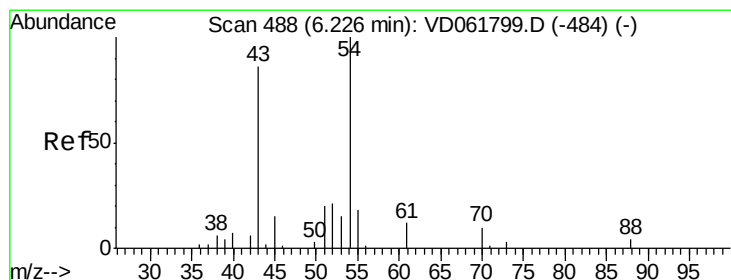
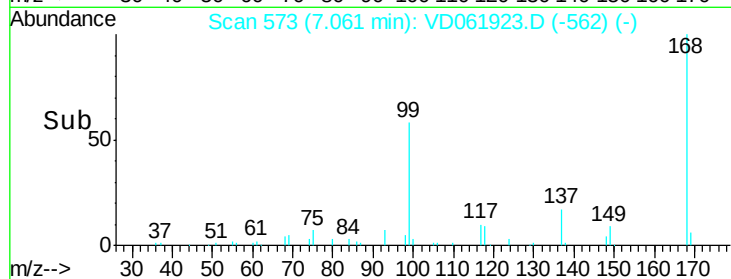
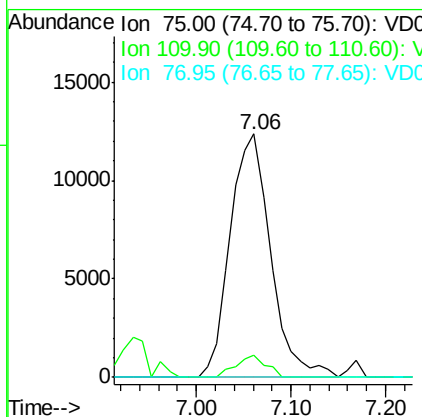
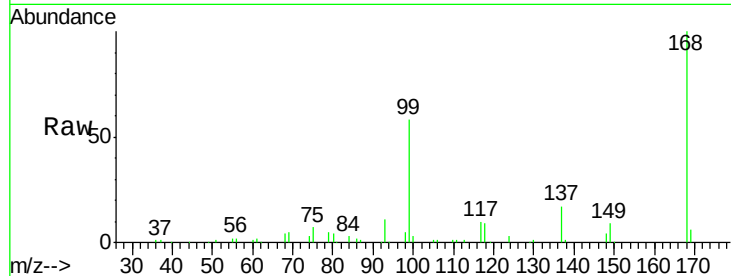




#36
 1,1-Dichloropropene
 Concen: 5.649 ug/l
 RT: 7.06 min Scan# 573
 Delta R.T. -0.09 min
 Lab File: VD061923.D
 Acq: 19 Apr 2019 21:40

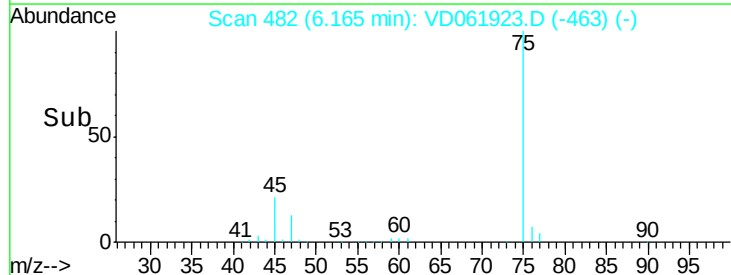
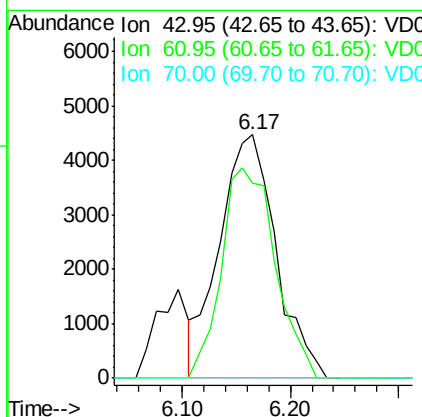
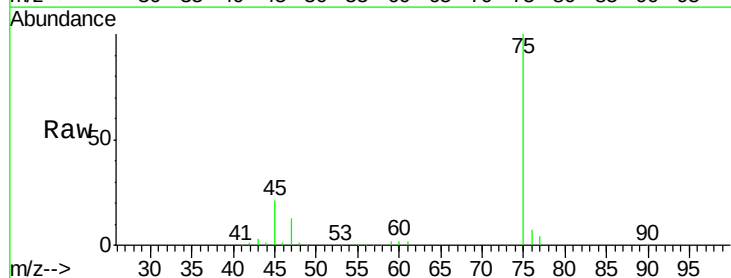
Instrument :
 MSVOA_D
 ClientSampleId :

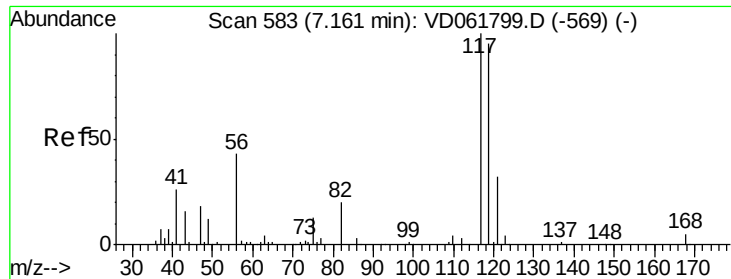
Tot Ion: 75 Resp: 36699
 Ion Ratio Lower Upper
 75 100
 110 9.2 19.1 57.1#
 77 0.0 25.6 38.4#



#37
 Ethyl Acetate
 Concen: 5.818 ug/l
 RT: 6.17 min Scan# 482
 Delta R.T. -0.01 min
 Lab File: VD061923.D
 Acq: 19 Apr 2019 21:40

Tgt Ion: 43 Resp: 16177
 Ion Ratio Lower Upper
 43 100
 61 80.0 14.7 22.1#
 70 0.0 7.8 11.6#





#38

Carbon Tetrachloride

Concen: 5.968 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.05 min

Lab File: VD061923.D

Acq: 19 Apr 2019 21:40

Instrument :

MSVOA_D

ClientSampleId :

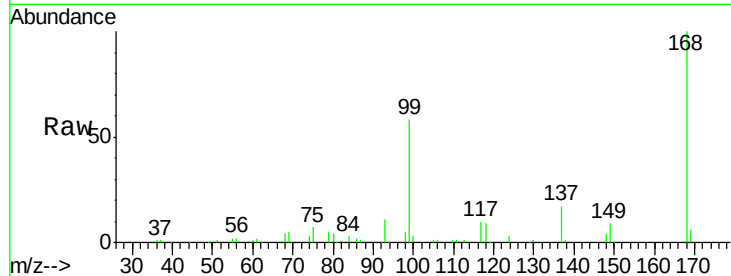
Tot Ion:117 Resp: 48964

Ion Ratio Lower Upper

117 100

119 3.9 75.8 113.8#

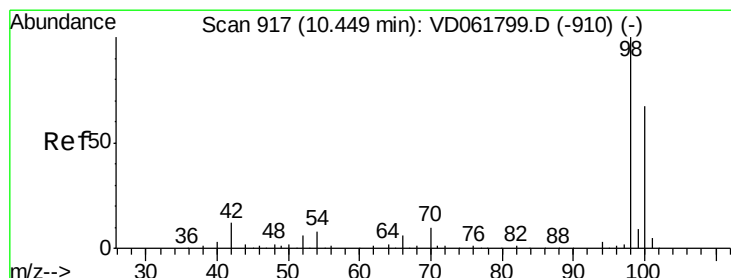
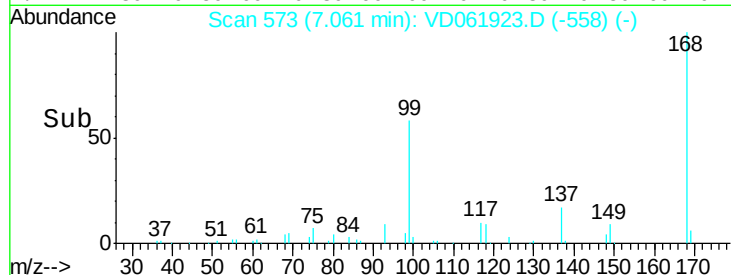
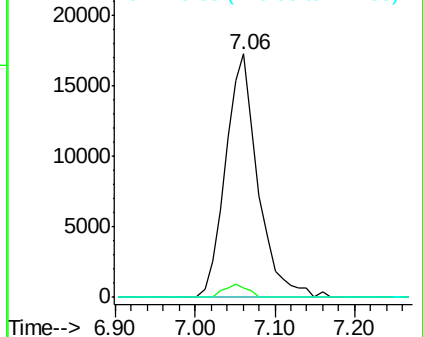
121 0.0 25.9 38.9#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.01 min

Lab File: VD061923.D

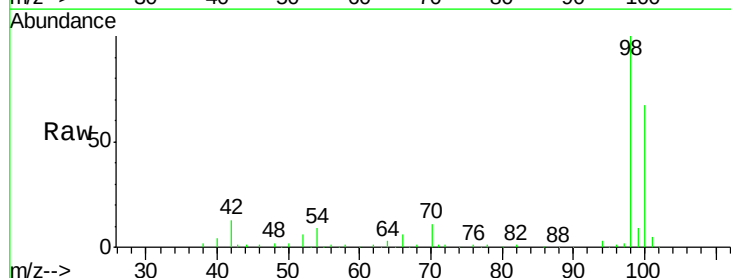
Acq: 19 Apr 2019 21:40

Tgt Ion: 98 Resp: 609954

Ion Ratio Lower Upper

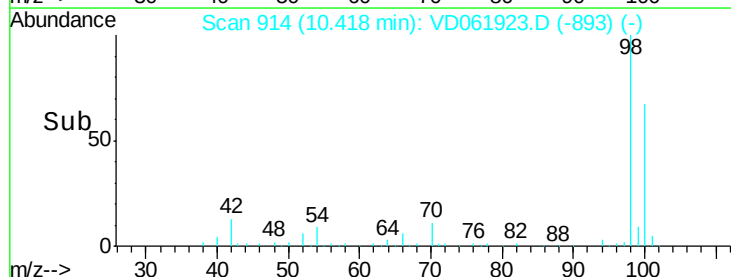
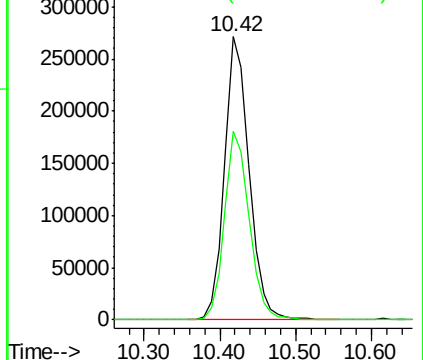
98 100

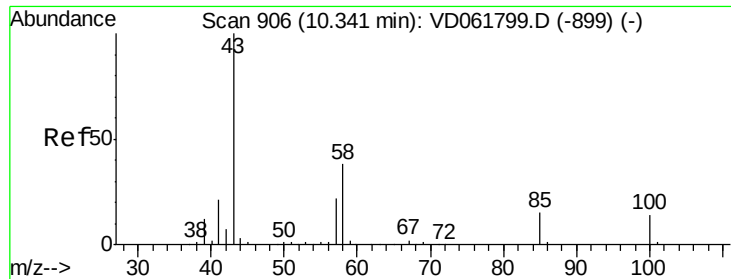
100 66.8 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.015 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD061923.D

Acq: 19 Apr 2019 21:40

Instrument :

MSVOA_D

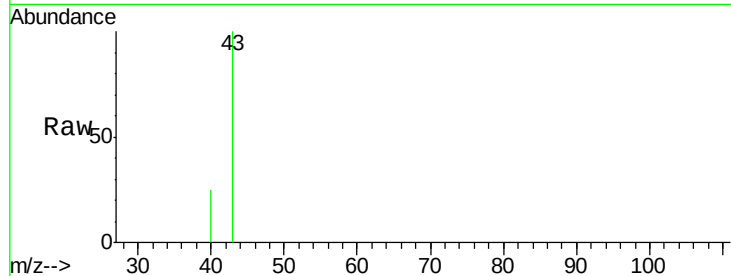
ClientSampled :

Tot Ion: 43 Resp: 2430

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.31

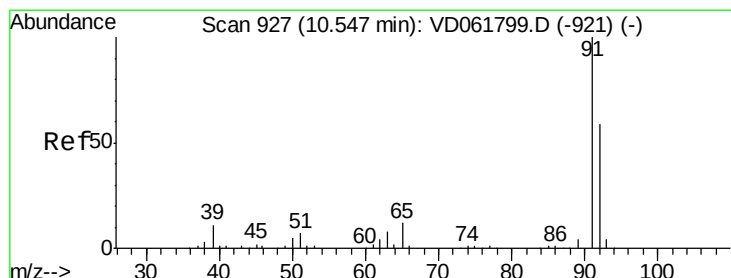
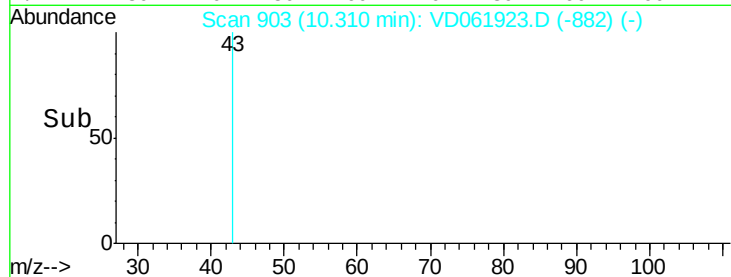
1500

1000

500

0

Time-->



#52

Toluene

Concen: 3.519 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061923.D

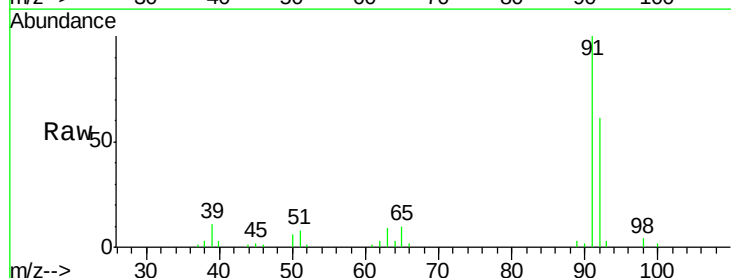
Acq: 19 Apr 2019 21:40

Tgt Ion: 92 Resp: 35176

Ion Ratio Lower Upper

92 100

91 163.5 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

30000

25000

20000

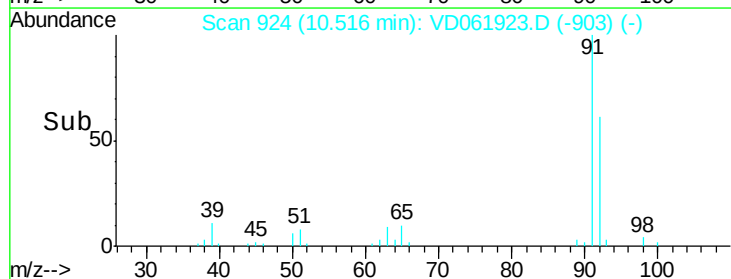
15000

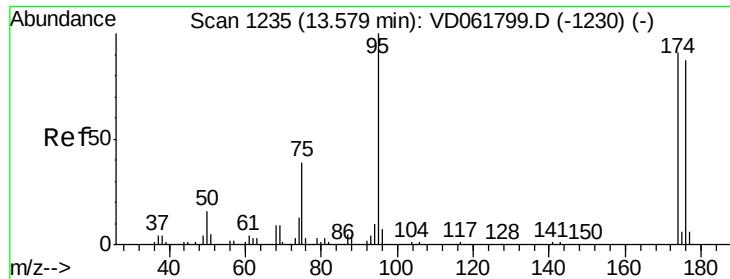
10000

5000

0

Time-->

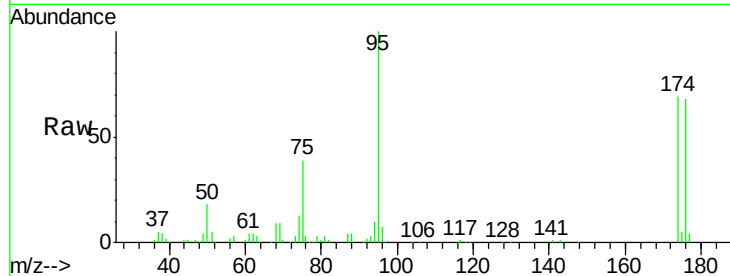




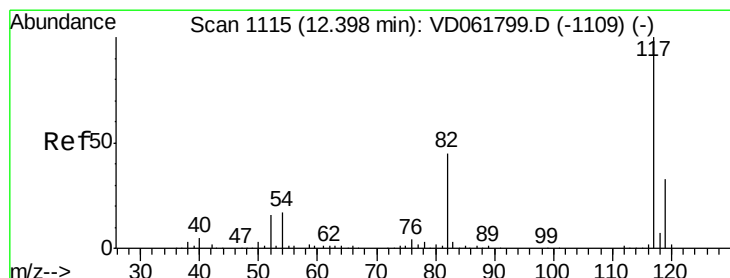
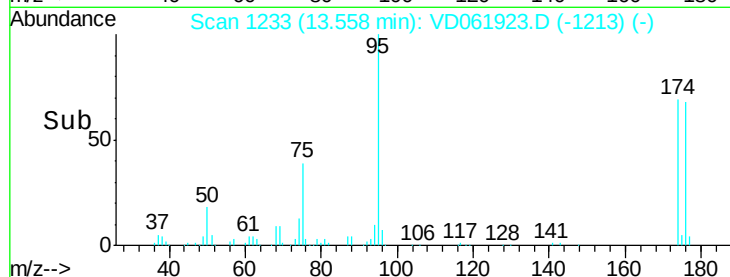
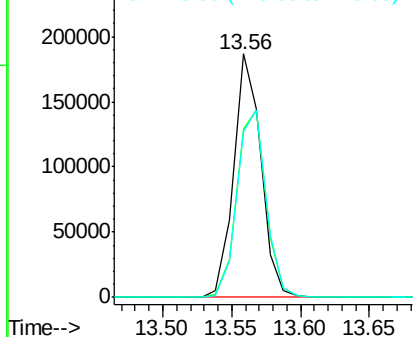
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VD061923.D
Acq: 19 Apr 2019 21:40

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 257186
Ion Ratio Lower Upper
95 100
174 69.1 0.0 181.8
176 68.0 0.0 174.4

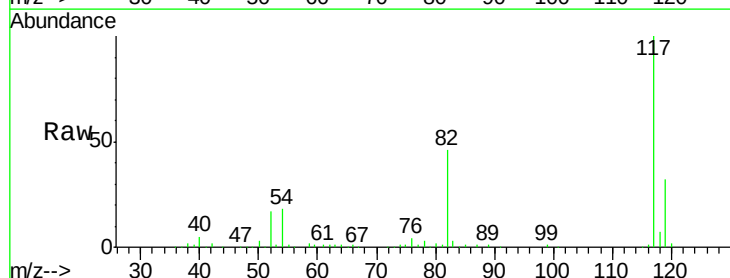


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

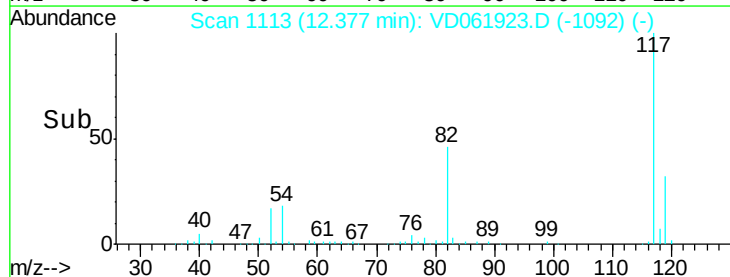
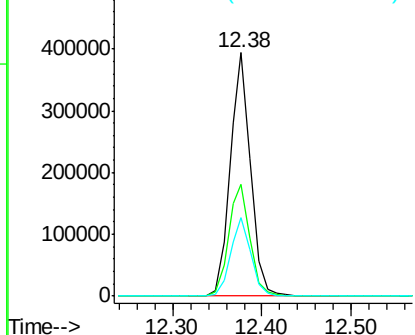


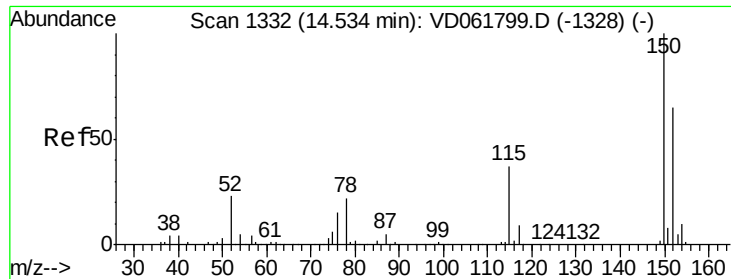
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061923.D
Acq: 19 Apr 2019 21:40

Tgt Ion: 117 Resp: 631865
Ion Ratio Lower Upper
117 100
82 45.8 36.2 54.2
119 32.0 26.2 39.4



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

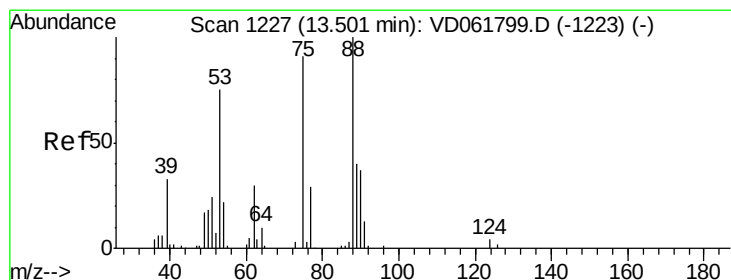
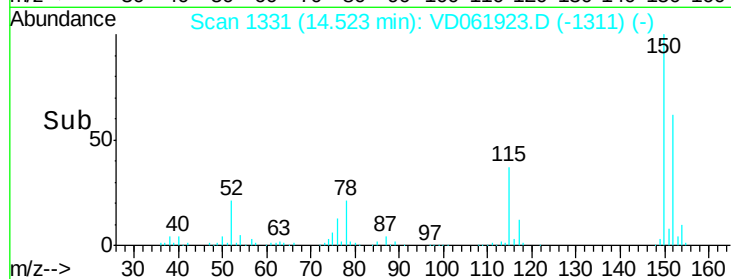
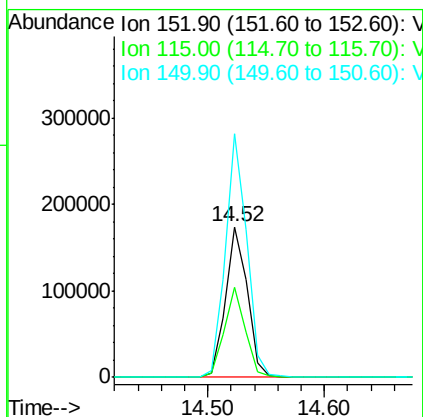
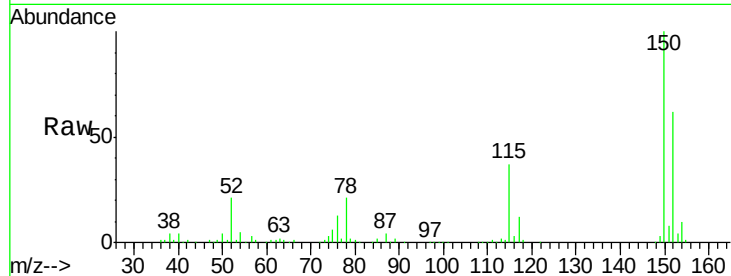




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. -0.00 min
 Lab File: VD061923.D
 Acq: 19 Apr 2019 21:40

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:152 Resp: 225465
 Ion Ratio Lower Upper
 152 100
 115 59.6 30.9 92.7
 150 161.6 0.0 314.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 99.606 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.09 min
 Lab File: VD061923.D
 Acq: 19 Apr 2019 21:40

Tgt Ion: 75 Resp: 98982
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.8 98.8#
 89 0.0 35.0 52.6#

