

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061323.D
 Acq On : 26 Mar 2019 3:22
 Operator : VA/AP
 Sample : K2045-09RE
 Misc : 6.12g/5ml/MSVOA D/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB438-190318-(25-27)RE

Quant Time: Mar 26 04:32:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	493129	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	863671	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	665163	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	220043	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	187240	44.01	ug/l	-0.01
Spiked Amount			Recovery	=	88.02%	
35) Dibromofluoromethane	6.91	113	289548	43.81	ug/l	-0.02
Spiked Amount			Recovery	=	87.62%	
50) Toluene-d8	10.40	98	600948	37.50	ug/l	-0.01
Spiked Amount			Recovery	=	75.00%	
62) 4-Bromofluorobenzene	13.55	95	214990	34.39	ug/l	0.00
Spiked Amount			Recovery	=	68.78%	

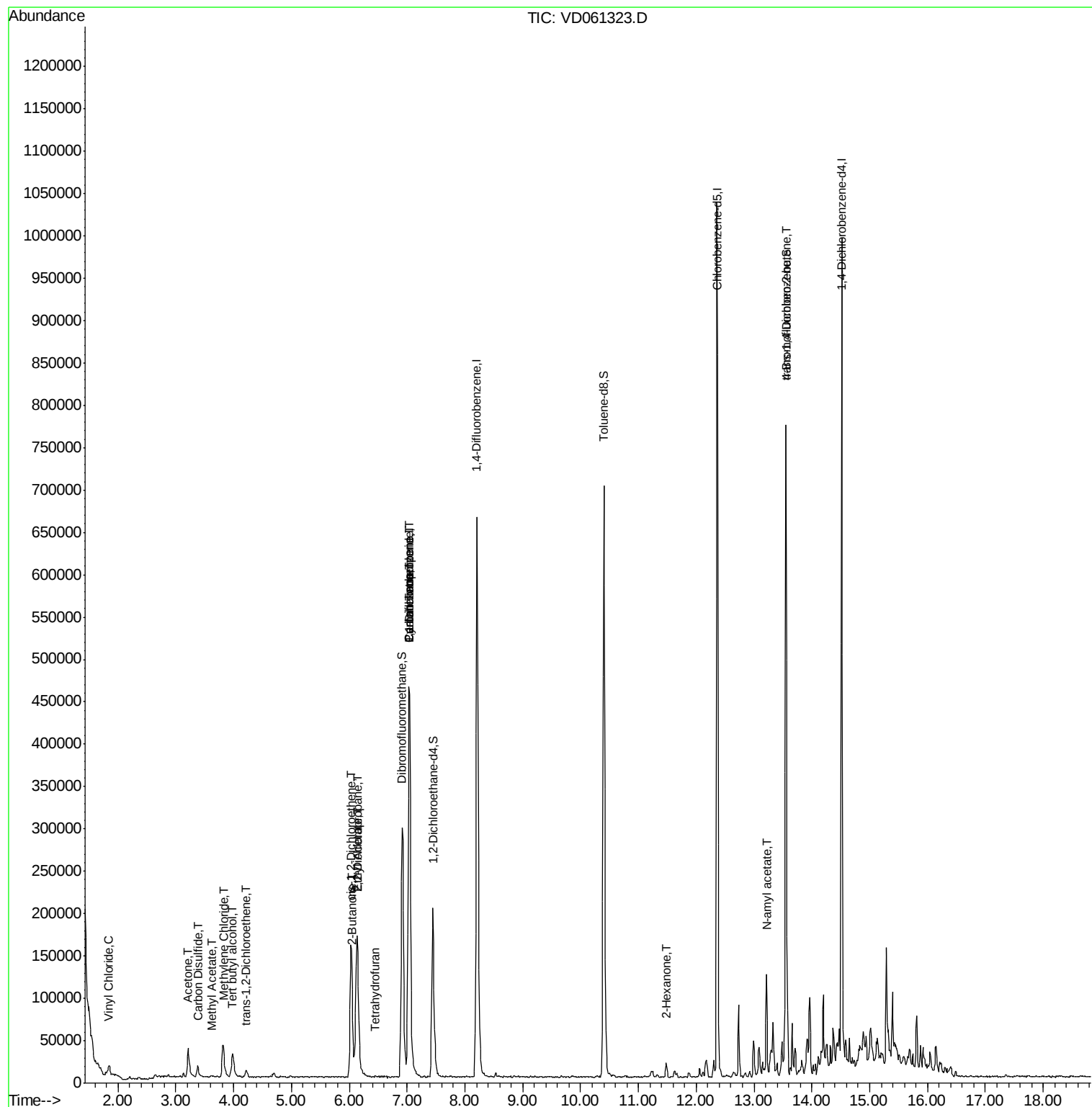
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.85	62	7752	2.108	ug/l	95
11) Tert butyl alcohol	3.98	59	25790	113.872	ug/l #	77
16) Acetone	3.21	43	65610	64.471	ug/l	99
17) Carbon Disulfide	3.38	76	27568	1.744	ug/l	96
18) Methyl Acetate	3.63	43	2941	1.529	ug/l #	55
20) Methylene Chloride	3.82	84	30321	5.250	ug/l	89
21) trans-1,2-Dichloroethene	4.23	96	5691	1.069	ug/l	88
25) 2-Butanone	6.06	43	2973	2.526	ug/l	95
26) 2,2-Dichloropropane	6.14	77	12959	1.841	ug/l #	48
27) cis-1,2-Dichloroethene	6.03	96	124770	21.769	ug/l	88
29) Tetrahydrofuran	6.44	42	760	1.297	ug/l #	49
31) Cyclohexane	7.03	56	8806	1.309	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	35181	4.979	ug/l #	46
37) Ethyl Acetate	6.14	43	10623	3.599	ug/l #	1
38) Carbon Tetrachloride	7.03	117	44633	5.527	ug/l #	17
59) 2-Hexanone	11.48	43	9294	5.051	ug/l #	24
74) N-amyl acetate	13.22	43	21243	5.673	ug/l #	65
81) trans-1,4-Dichloro-2-buten	13.55	75	78242	90.599	ug/l #	17

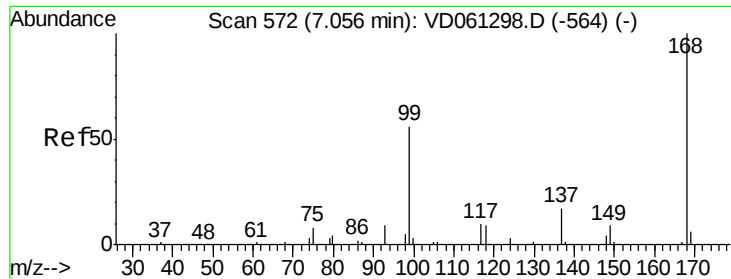
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061323.D

Acq: 26 Mar 2019 3:22

Instrument :

MSVOA_D

ClientSampleId :

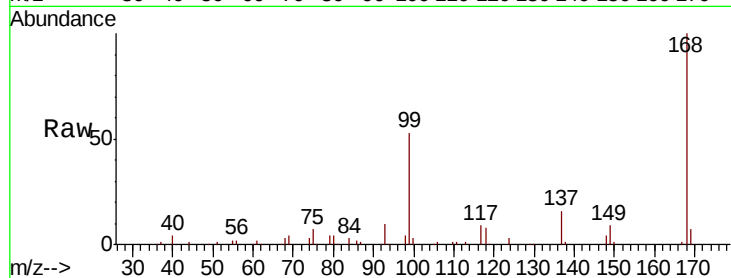
WP022SB438-190318-(25-27)RE

Tot Ion:168 Resp: 493129

Ion Ratio Lower Upper

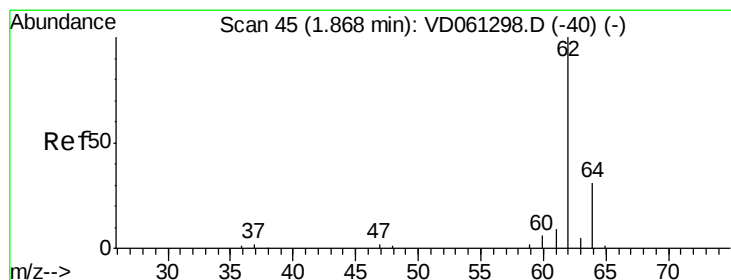
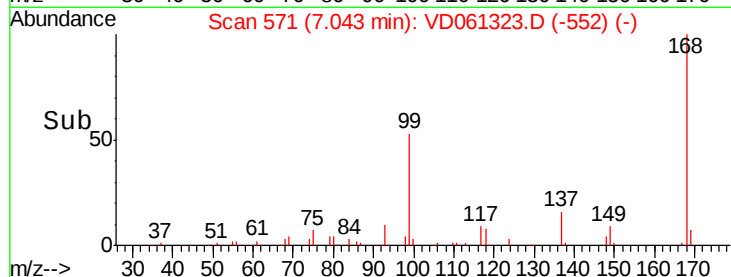
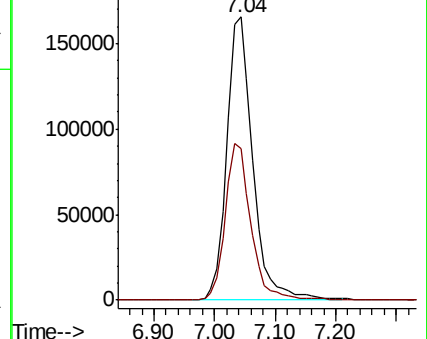
168 100

99 53.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#4

Vinyl Chloride

Concen: 2.108 ug/l

RT: 1.85 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD061323.D

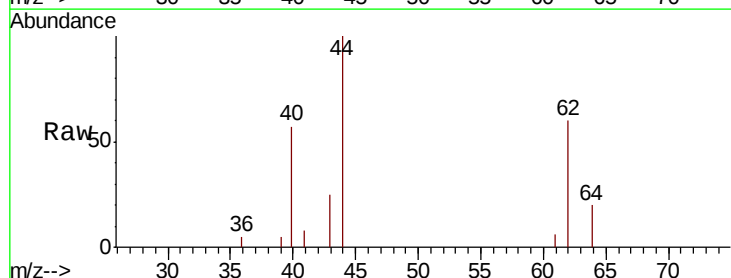
Acq: 26 Mar 2019 3:22

Tgt Ion: 62 Resp: 7752

Ion Ratio Lower Upper

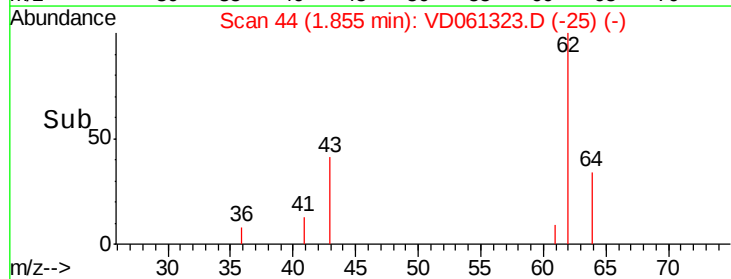
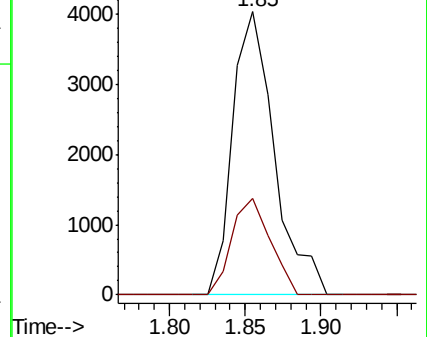
62 100

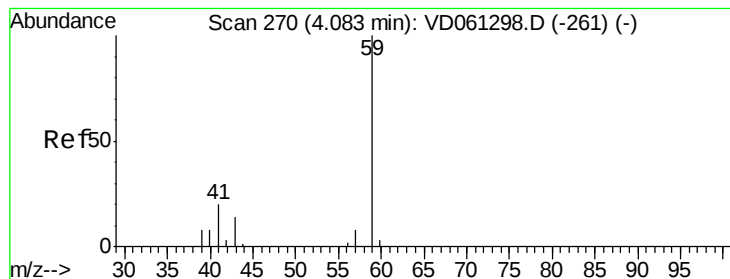
64 34.0 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



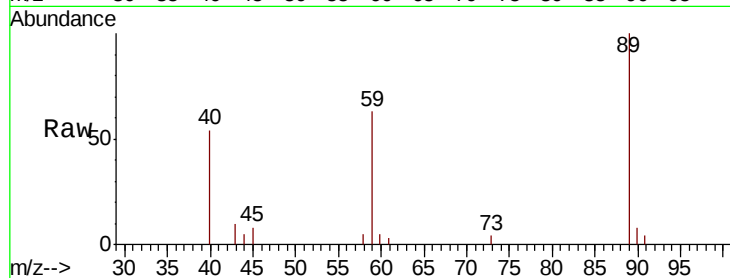


#11

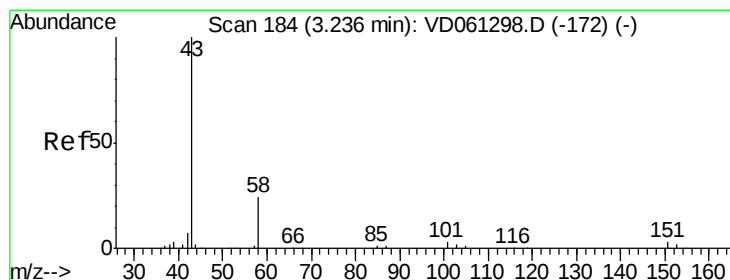
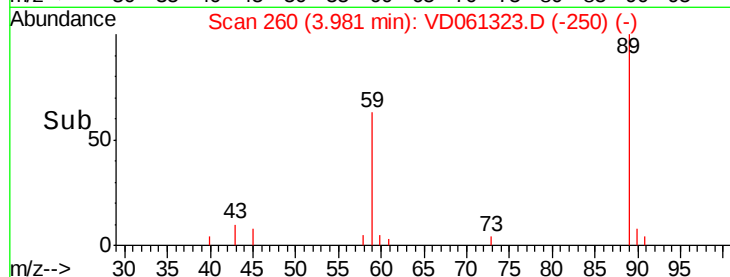
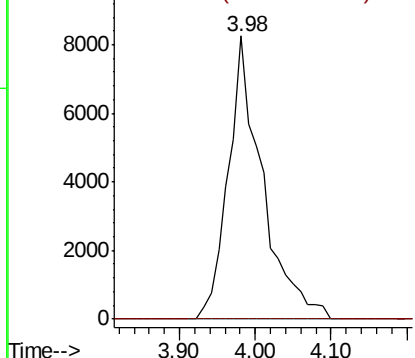
Tert butyl alcohol
Concen: 113.872 ug/l
RT: 3.98 min Scan# 260
Delta R.T. -0.10 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Instrument :
MSVOA_D
ClientSampleId :
WP022SB438-190318-(25-27)RE

Tot Ion: 59 Resp: 25790
Ion Ratio Lower Upper
59 100
57 0.0 6.6 9.8#



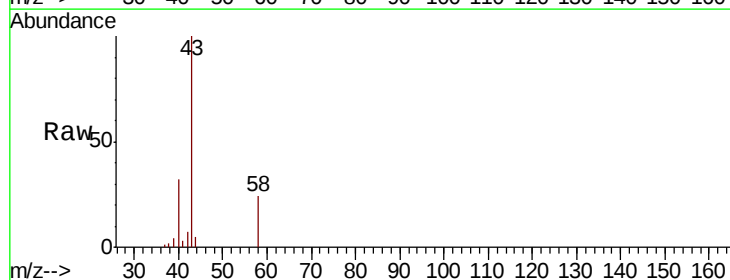
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



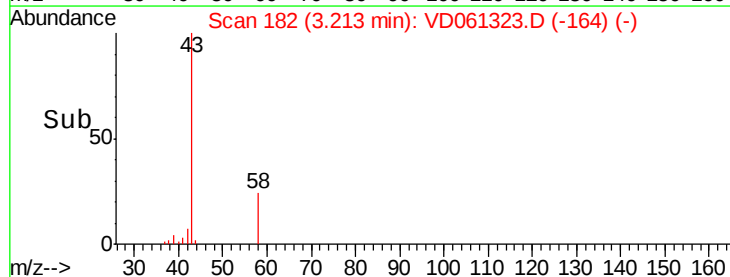
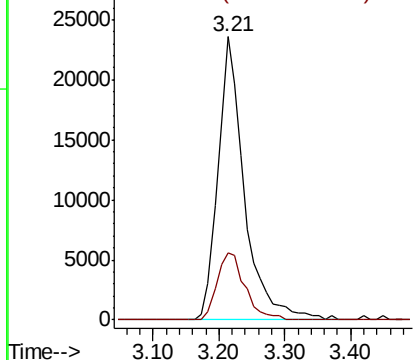
#16

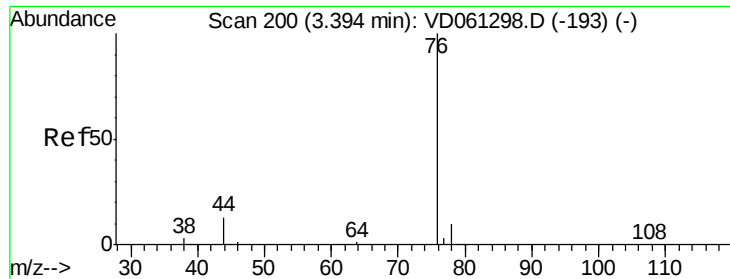
Acetone
Concen: 64.471 ug/l
RT: 3.21 min Scan# 182
Delta R.T. -0.02 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Tgt Ion: 43 Resp: 65610
Ion Ratio Lower Upper
43 100
58 23.6 19.4 29.0



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





#17

Carbon Disulfide

Concen: 1.744 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD061323.D

Acq: 26 Mar 2019 3:22

Instrument :

MSVOA_D

ClientSampleId :

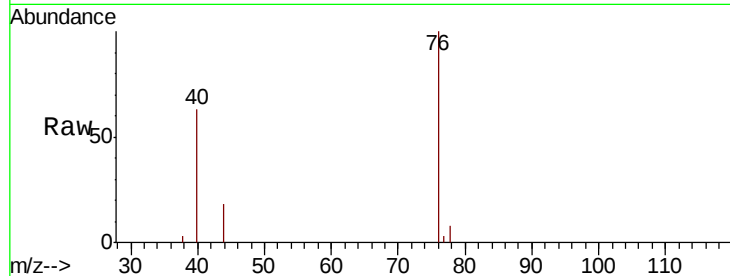
WP022SB438-190318-(25-27)RE

Tot Ion: 76 Resp: 27568

Ion Ratio Lower Upper

76 100

78 8.2 7.8 11.6



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.38

12000

10000

8000

6000

4000

2000

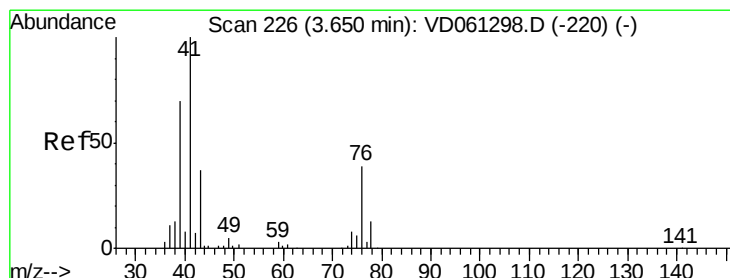
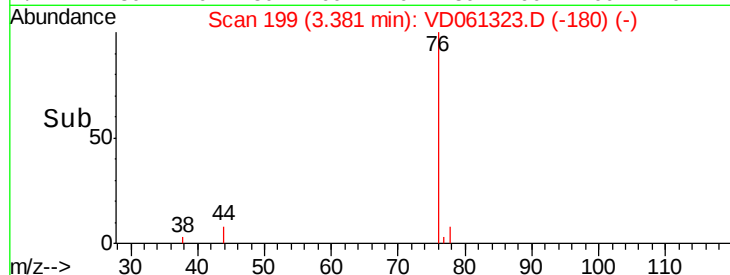
0

Time-->

3.30

3.40

3.50



#18

Methyl Acetate

Concen: 1.529 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.02 min

Lab File: VD061323.D

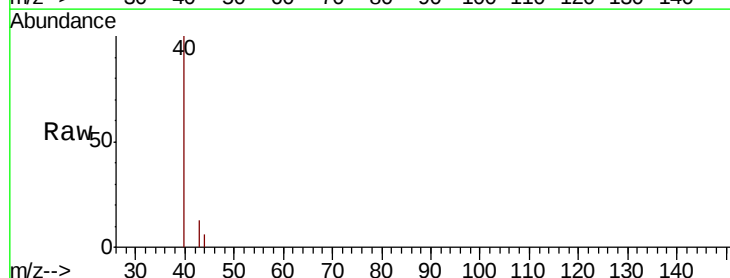
Acq: 26 Mar 2019 3:22

Tgt Ion: 43 Resp: 2941

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.63

1200

1000

800

600

400

200

0

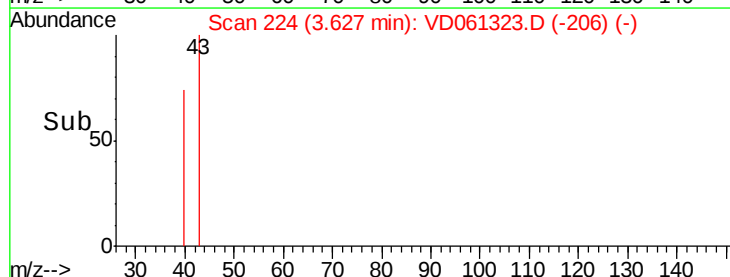
Time-->

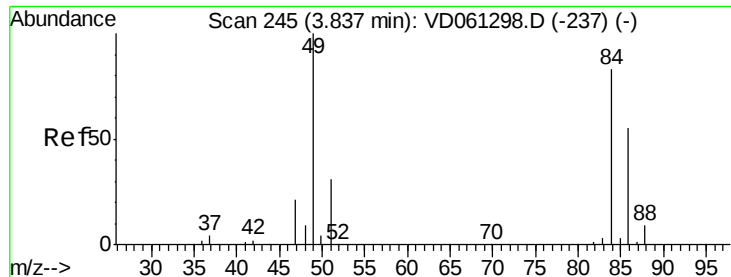
3.55

3.60

3.65

3.70

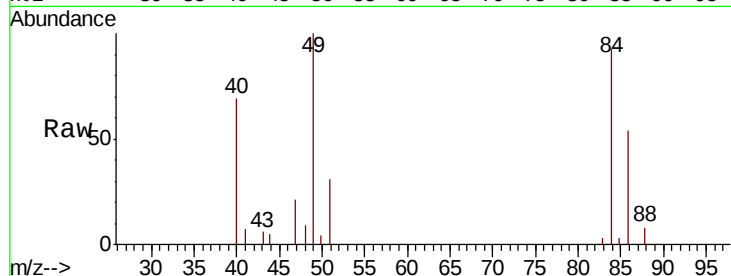




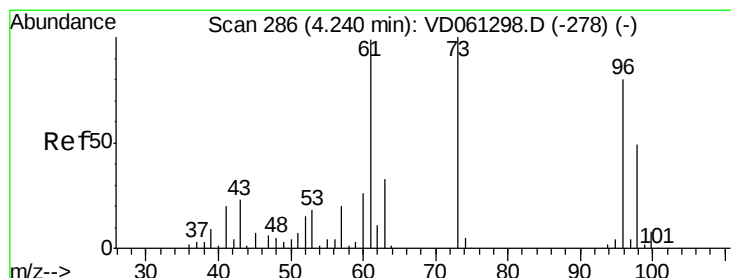
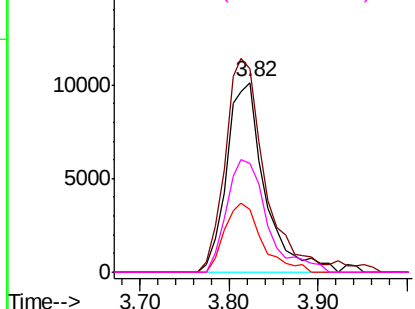
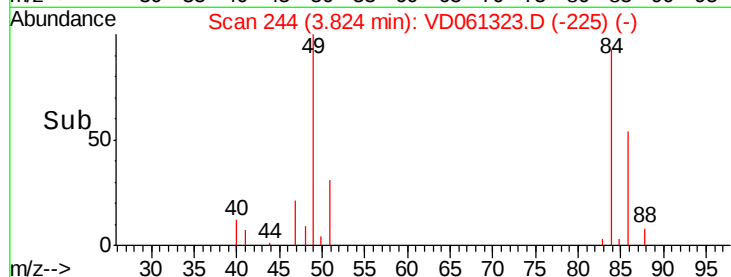
#20
Methylene Chloride
Concen: 5.250 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Instrument :
MSVOA_D
ClientSampleId :
WP022SB438-190318-(25-27)RE

Tot Ion: 84 Resp: 30321
Ion Ratio Lower Upper
84 100
49 107.6 96.8 145.2
51 33.3 29.9 44.9
86 57.7 53.1 79.7

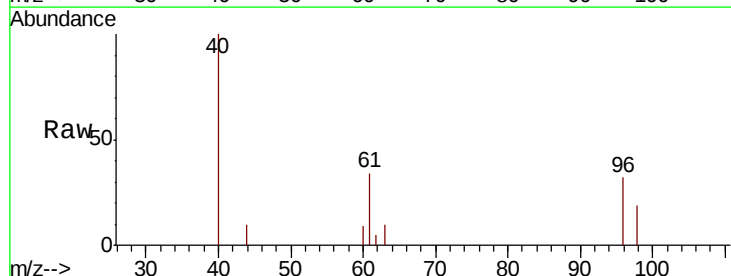


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

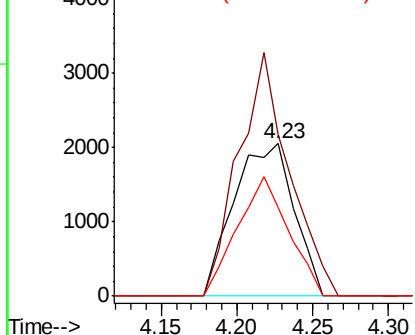
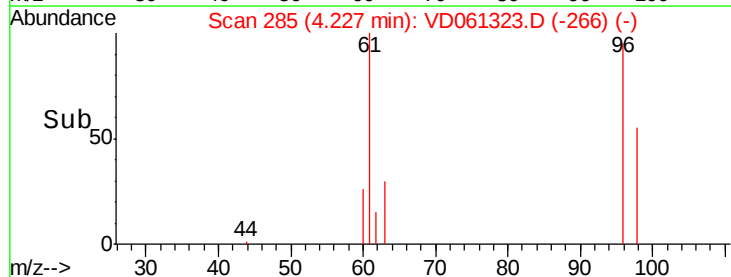


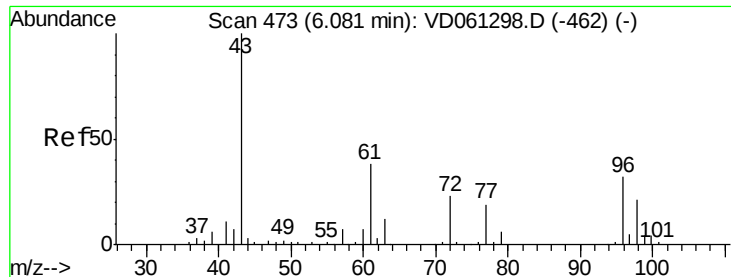
#21
trans-1,2-Dichloroethene
Concen: 1.069 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Tgt Ion: 96 Resp: 5691
Ion Ratio Lower Upper
96 100
61 105.8 99.2 148.8
98 58.2 49.2 73.8



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#25

2-Butanone

Concen: 2.526 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.02 min

Lab File: VD061323.D

Acq: 26 Mar 2019 3:22

Instrument :

MSVOA_D

ClientSampleId :

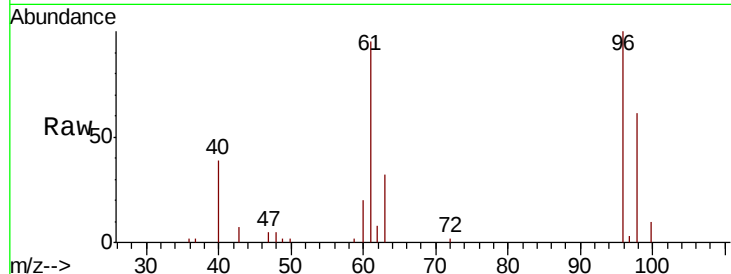
WP022SB438-190318-(25-27)RE

Tot Ion: 43 Resp: 2973

Ion Ratio Lower Upper

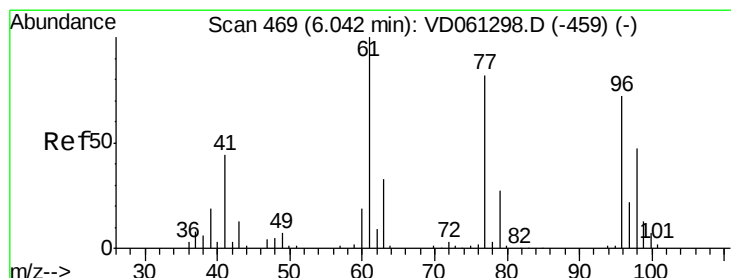
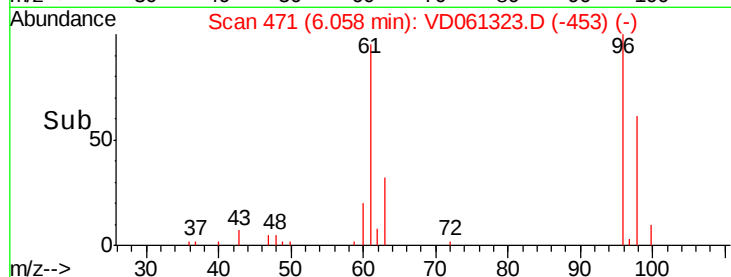
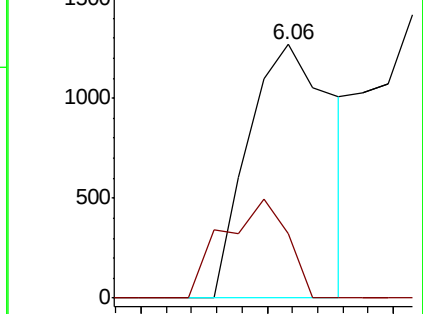
43 100

72 25.6 18.5 27.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.841 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.10 min

Lab File: VD061323.D

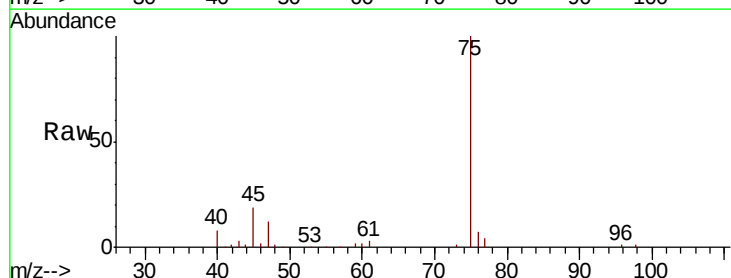
Acq: 26 Mar 2019 3:22

Tgt Ion: 77 Resp: 12959

Ion Ratio Lower Upper

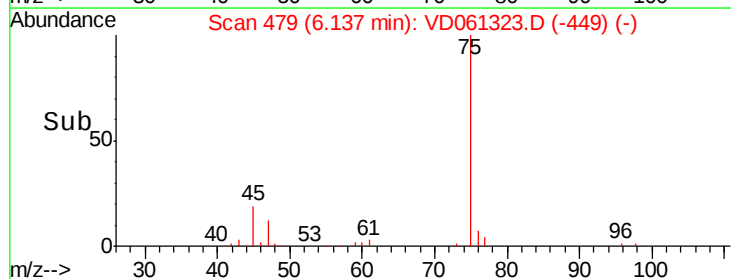
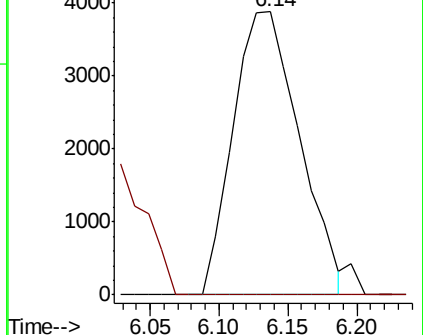
77 100

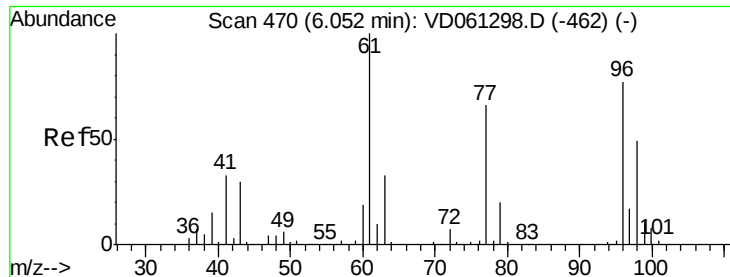
97 0.0 13.5 40.5#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 21.769 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.02 min

Lab File: VD061323.D

Acq: 26 Mar 2019 3:22

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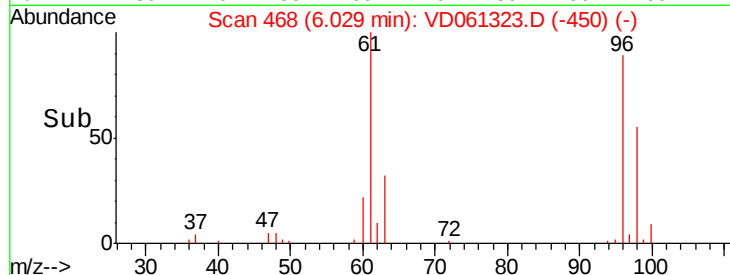
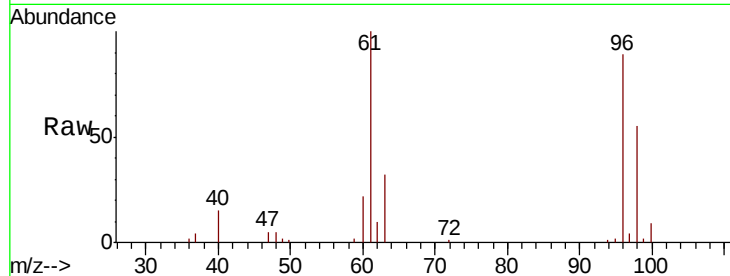
Tot Ion: 96 Resp: 124770

Ion Ratio Lower Upper

96 100

61 111.8 0.0 261.0

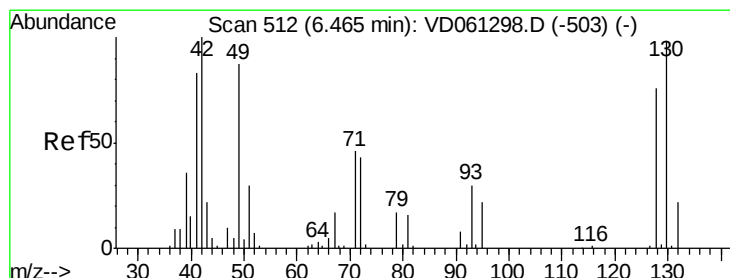
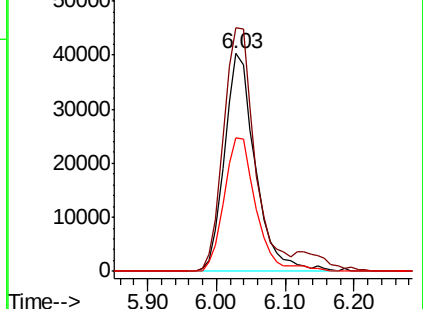
98 61.6 0.0 127.6



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#29

Tetrahydrofuran

Concen: 1.297 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD061323.D

Acq: 26 Mar 2019 3:22

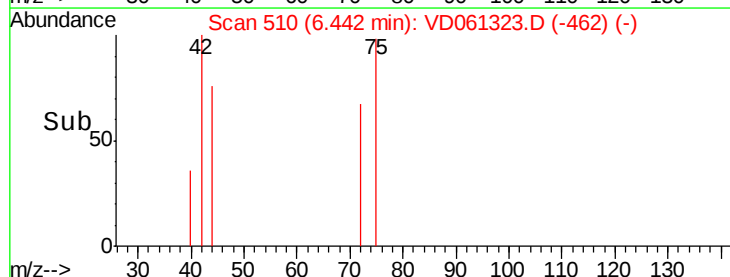
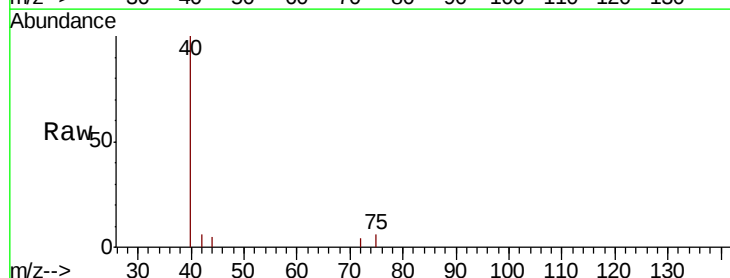
Tgt Ion: 42 Resp: 760

Ion Ratio Lower Upper

42 100

72 23.9 36.6 54.8#

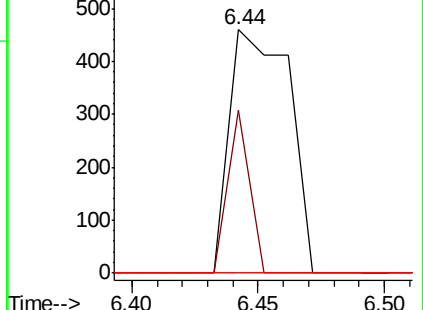
71 0.0 36.3 54.5#

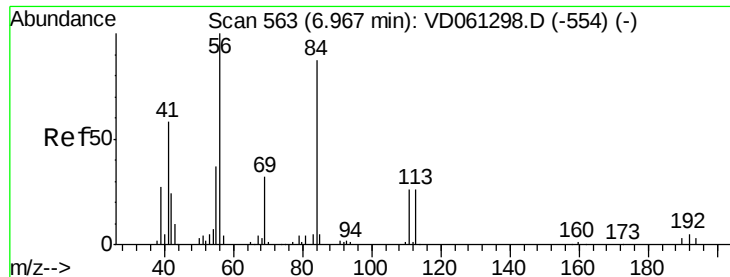


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

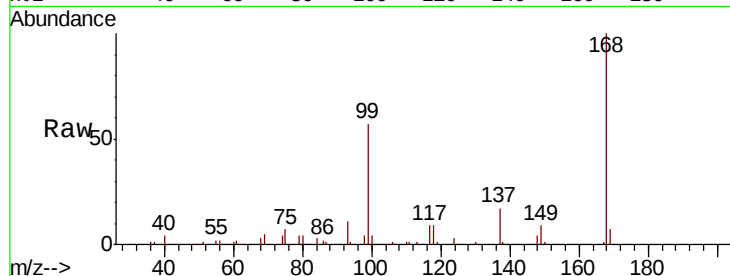




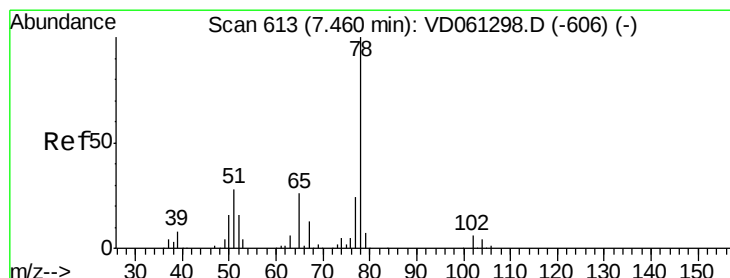
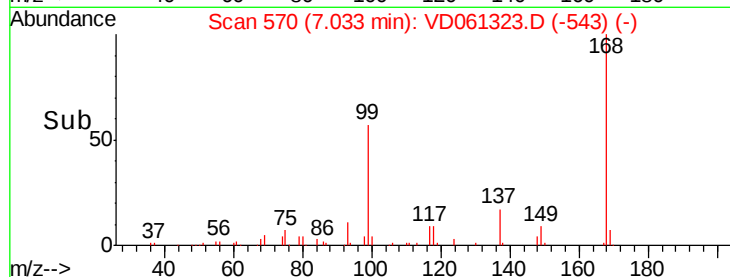
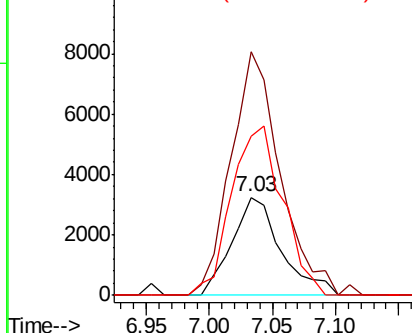
#31
Cyclohexane
Concen: 1.309 ug/l
RT: 7.03 min Scan# 570
Delta R.T. 0.07 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Instrument :
MSVOA_D
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WP022SB438-190318-(25-27)RE

Tot Ion: 56 Resp: 8806
Ion Ratio Lower Upper
56 100
69 247.8 25.5 38.3#
84 161.7 71.4 107.2#

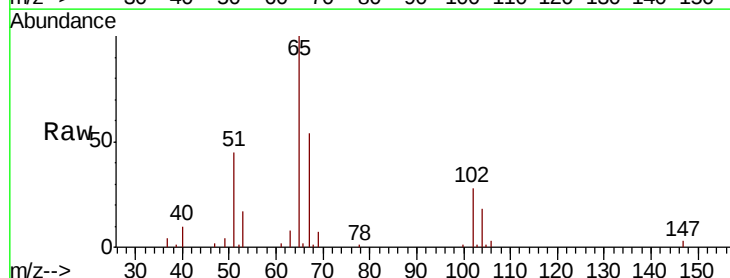


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

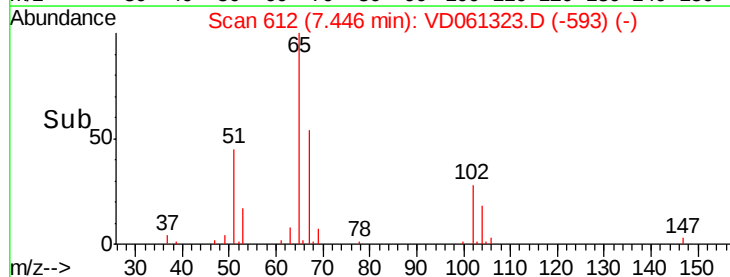
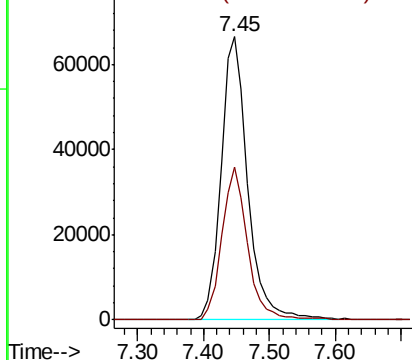


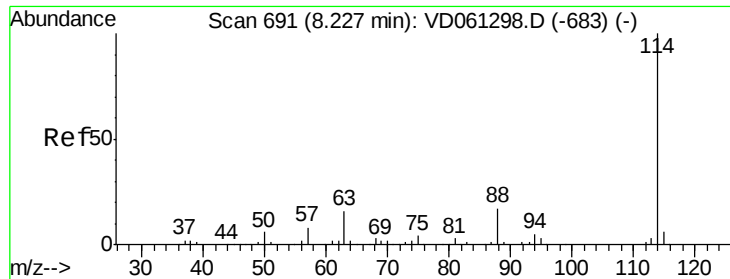
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.01 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Tgt Ion: 65 Resp: 187240
Ion Ratio Lower Upper
65 100
67 54.0 0.0 100.8



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

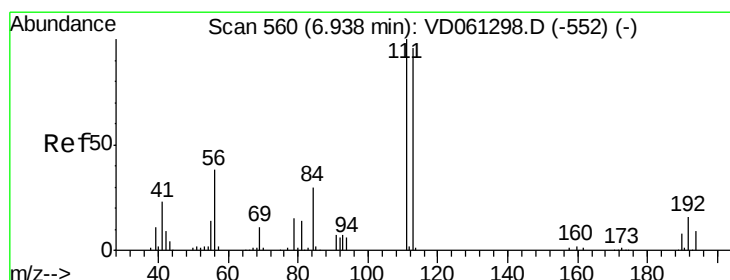
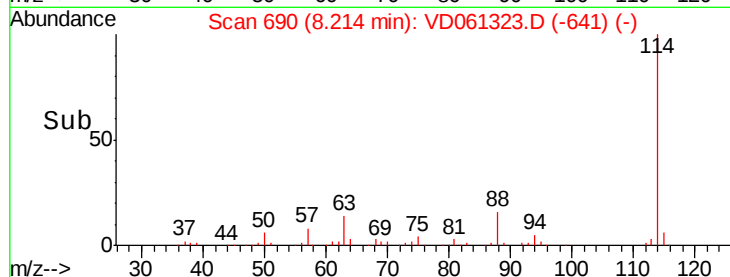
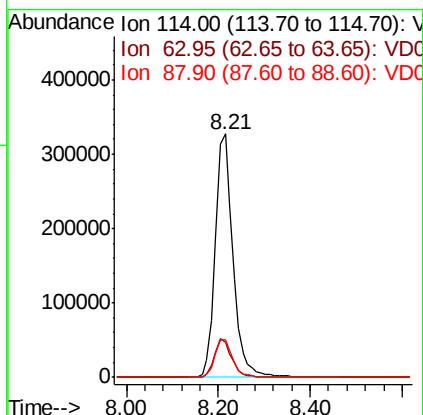
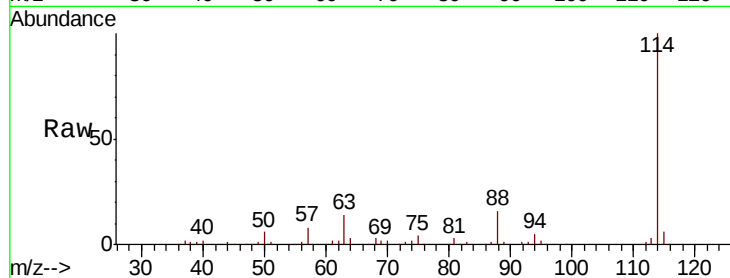




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061323.D
 Acq: 26 Mar 2019 3:22

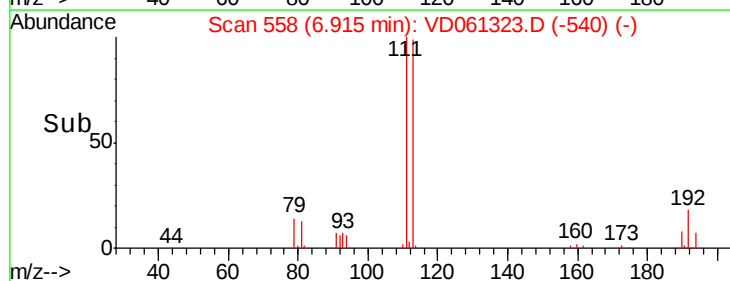
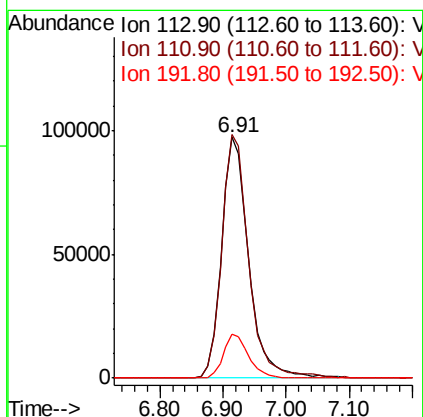
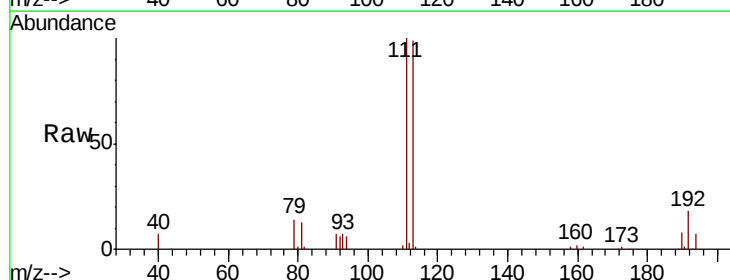
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB438-190318-(25-27)RE

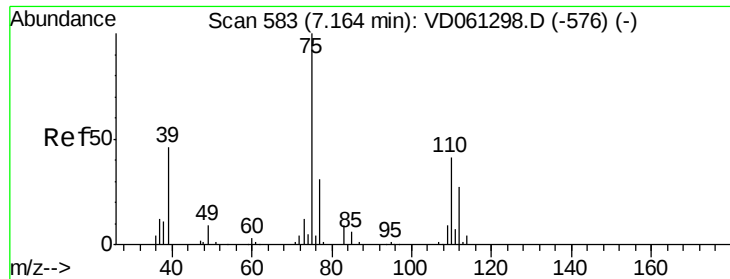
Tot Ion:114 Resp: 863671
 Ion Ratio Lower Upper
 114 100
 63 14.5 0.0 31.4
 88 15.6 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.91 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: VD061323.D
 Acq: 26 Mar 2019 3:22

Tgt Ion:113 Resp: 289548
 Ion Ratio Lower Upper
 113 100
 111 101.1 83.7 125.5
 192 18.2 13.4 20.0

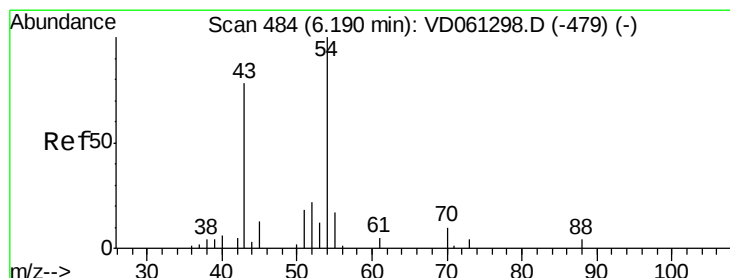
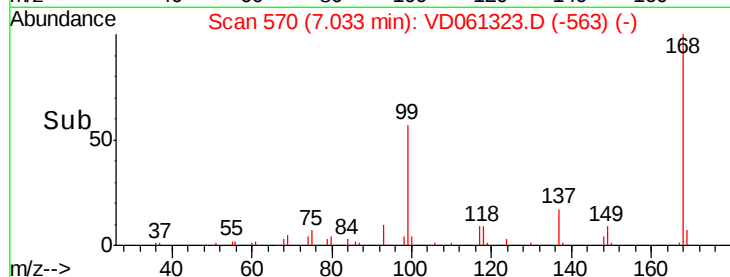
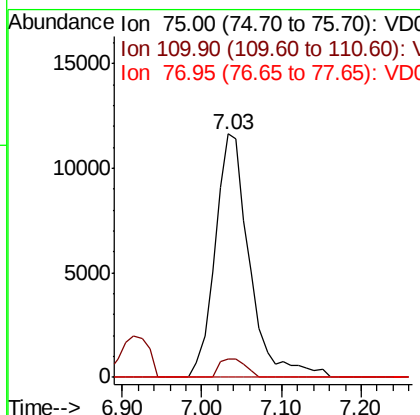
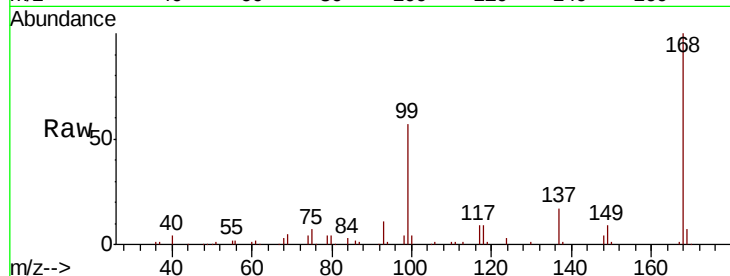




#36
 1,1-Dichloropropene
 Concen: 4.979 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD061323.D
 Acq: 26 Mar 2019 3:22

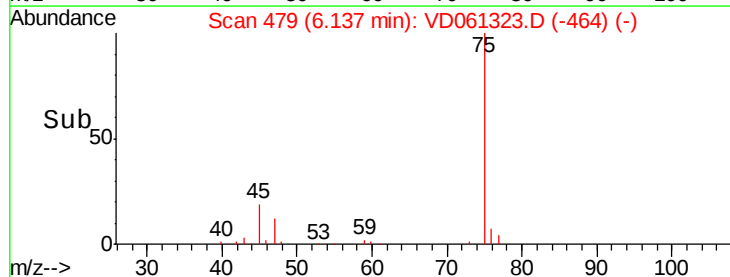
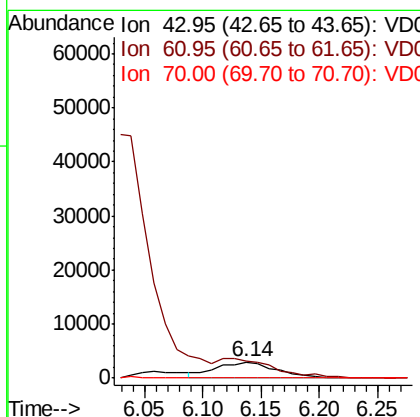
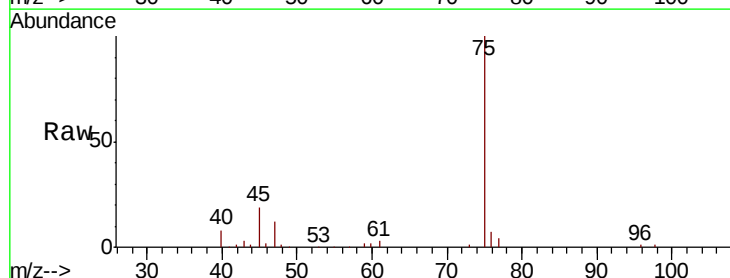
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB438-190318-(25-27)RE

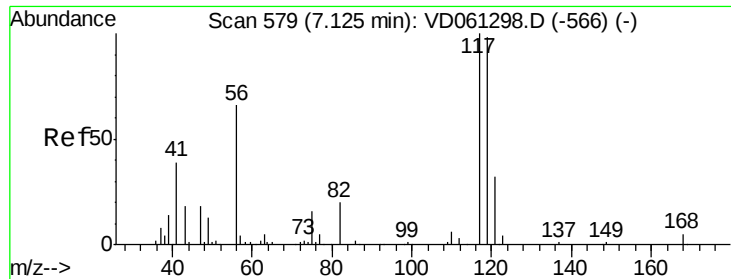
Tot Ion: 75 Resp: 35181
 Ion Ratio Lower Upper
 75 100
 110 7.6 20.1 60.2#
 77 0.0 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 3.599 ug/l
 RT: 6.14 min Scan# 479
 Delta R.T. -0.05 min
 Lab File: VD061323.D
 Acq: 26 Mar 2019 3:22

Tgt Ion: 43 Resp: 10623
 Ion Ratio Lower Upper
 43 100
 61 103.1 12.6 19.0#
 70 0.0 8.2 12.4#





#38

Carbon Tetrachloride

Concen: 5.527 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD061323.D

Acq: 26 Mar 2019 3:22

Instrument :

MSVOA_D

ClientSampleId :

WP022SB438-190318-(25-27)RE

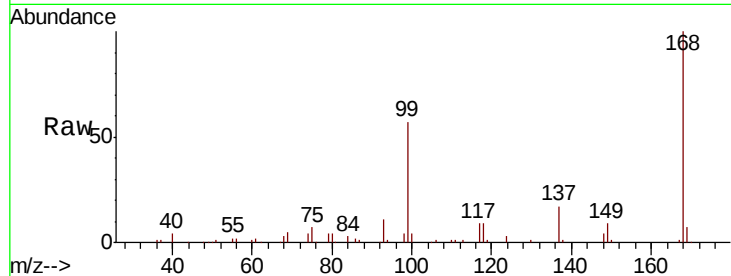
Tot Ion:117 Resp: 44633

Ion Ratio Lower Upper

117 100

119 7.1 78.4 117.6#

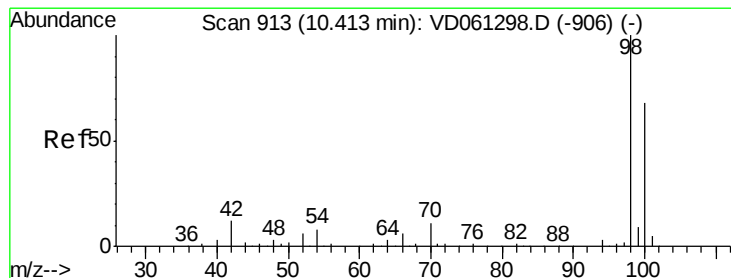
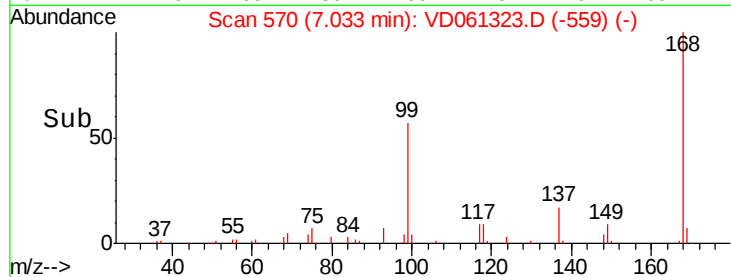
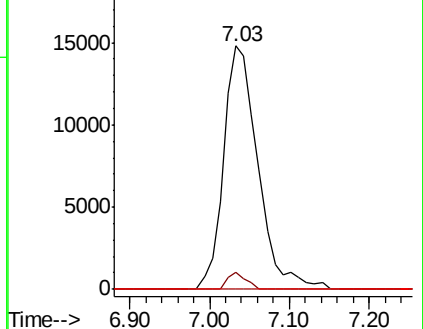
121 0.0 25.1 37.7#



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: 10.40 min Scan# 912

Delta R.T. -0.01 min

Lab File: VD061323.D

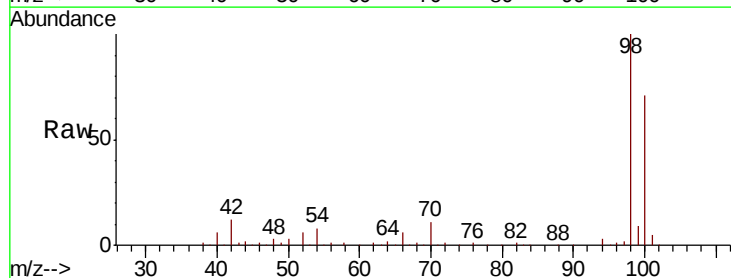
Acq: 26 Mar 2019 3:22

Tgt Ion: 98 Resp: 600948

Ion Ratio Lower Upper

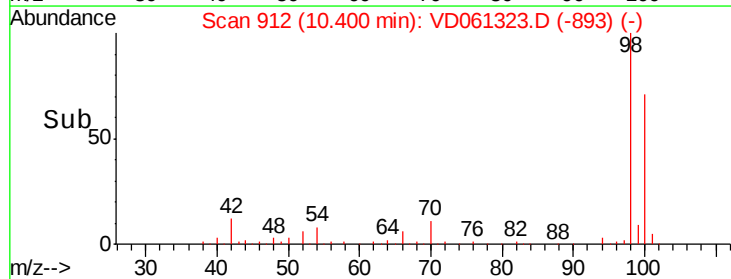
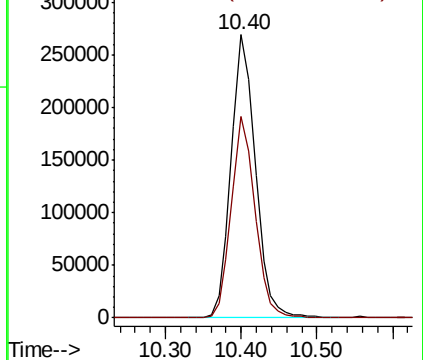
98 100

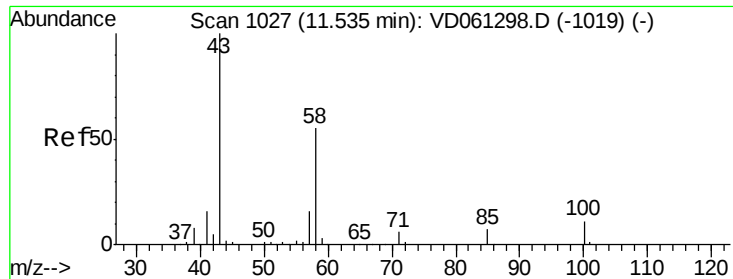
100 71.2 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

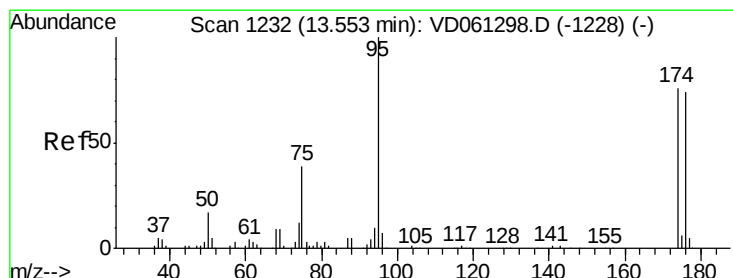
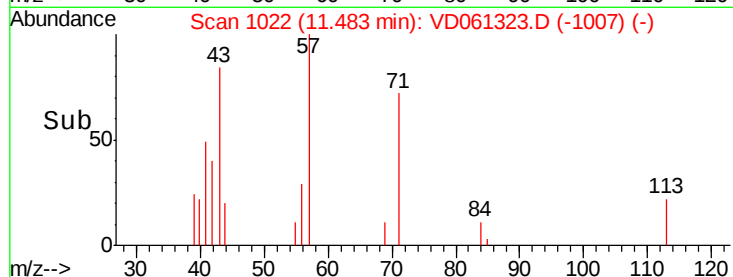
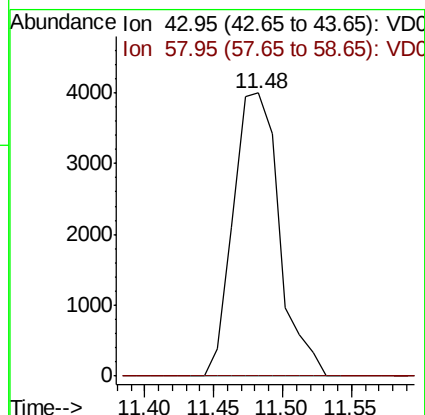
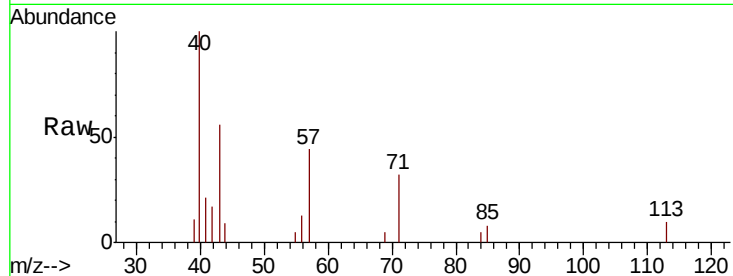




#59
2-Hexanone
Concen: 5.051 ug/l
RT: 11.48 min Scan# 1022
Delta R.T. -0.05 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

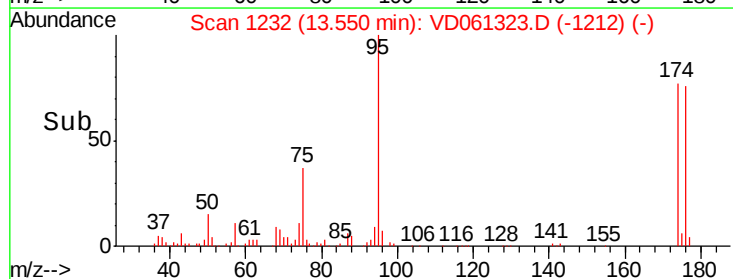
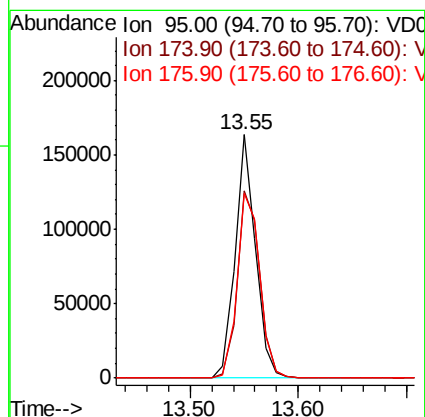
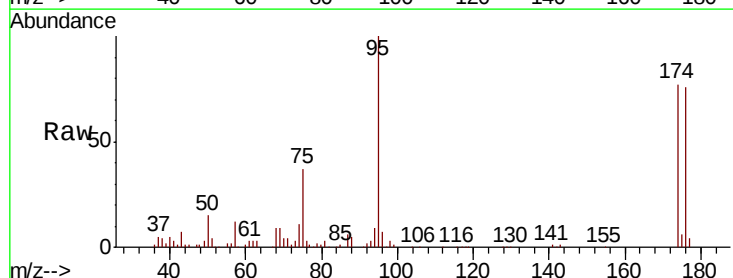
Instrument :
MSVOA_D
ClientSampleId :
WP022SB438-190318-(25-27)RE

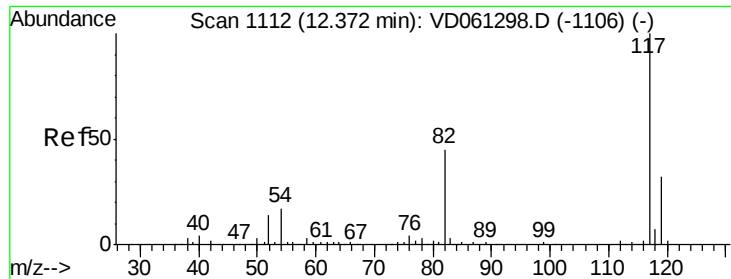
Tot Ion: 43 Resp: 9294
Ion Ratio Lower Upper
43 100
58 0.0 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Tgt Ion: 95 Resp: 214990
Ion Ratio Lower Upper
95 100
174 76.7 0.0 151.8
176 75.6 0.0 148.0

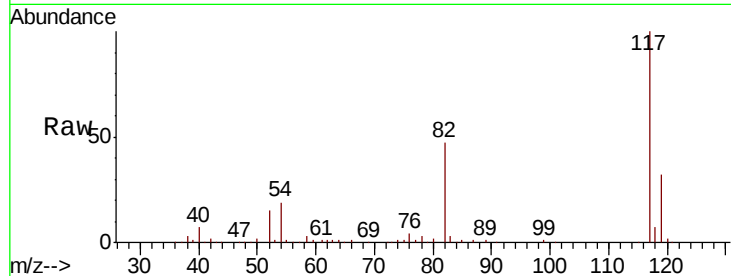




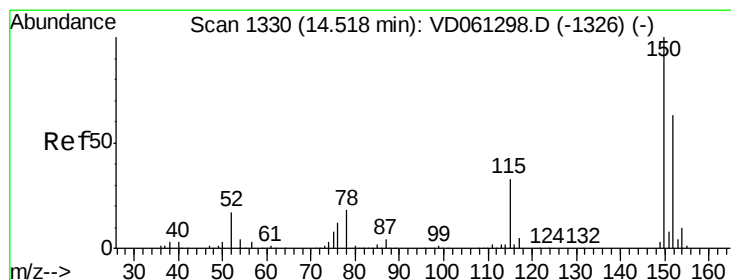
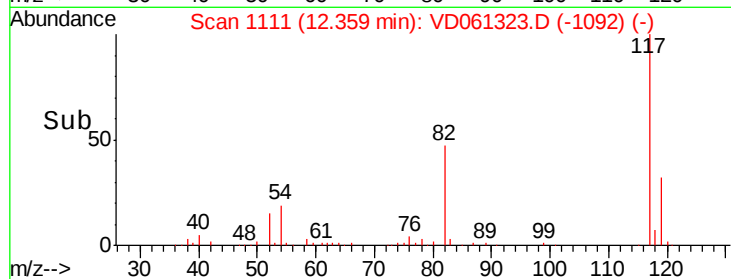
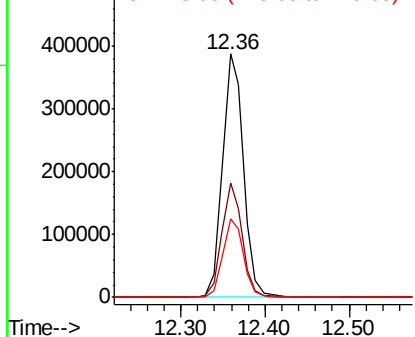
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Instrument :
MSVOA_D
ClientSampleId :
WP022SB438-190318-(25-27)RE

Tot Ion:117 Resp: 665163
Ion Ratio Lower Upper
117 100
82 46.9 35.7 53.5
119 32.5 25.9 38.9

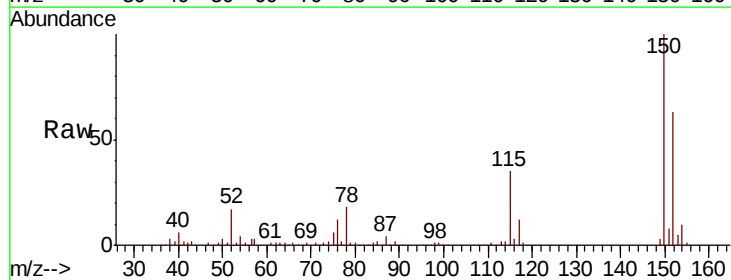


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

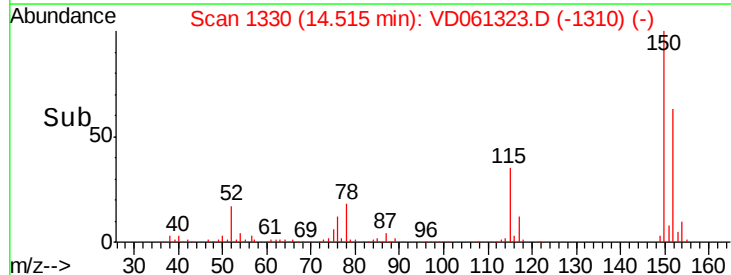
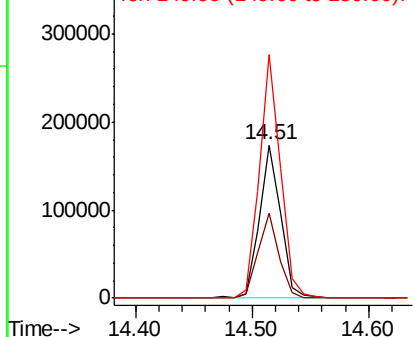


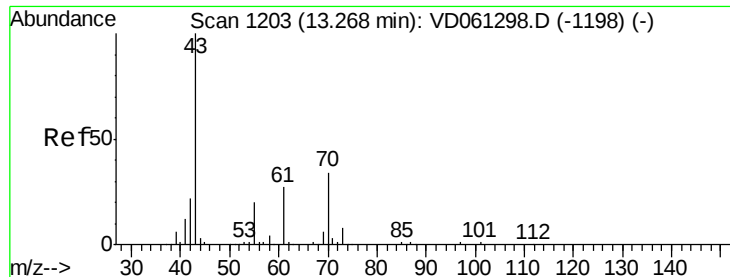
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061323.D
Acq: 26 Mar 2019 3:22

Tgt Ion:152 Resp: 220043
Ion Ratio Lower Upper
152 100
115 55.9 29.2 87.6
150 159.3 0.0 319.6



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





#74

N-amvl acetate

Concen: 5.673 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.05 min

Lab File: VD061323.D

Acq: 26 Mar 2019 3:22

Instrument :

MSVOA_D

ClientSampleId :

WP022SB438-190318-(25-27)RE

Tot Ion: 43 Resp: 21243

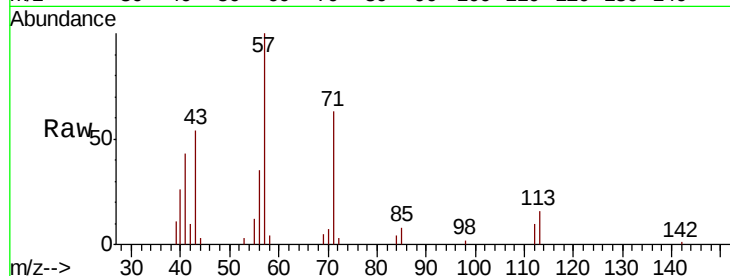
Ion Ratio Lower Upper

43 100

70 13.3 27.5 41.3#

55 22.8 15.7 23.5

61 0.0 21.8 32.6#

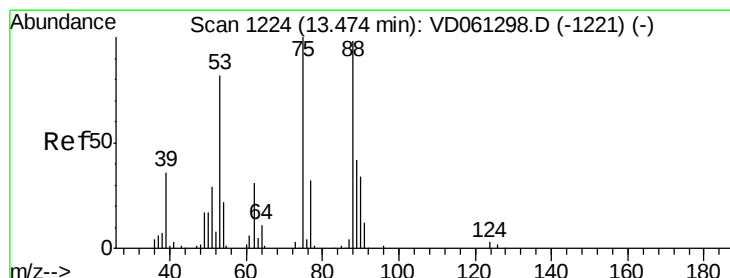
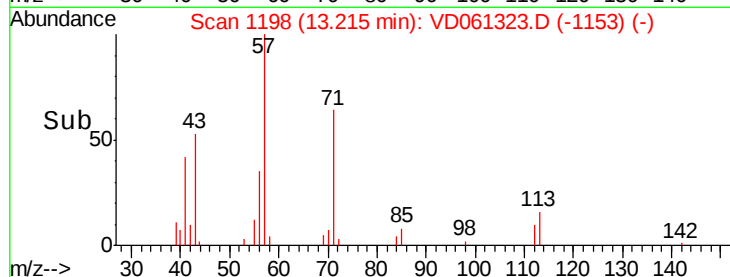
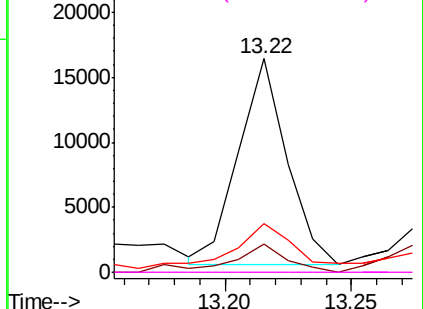


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 90.599 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061323.D

Acq: 26 Mar 2019 3:22

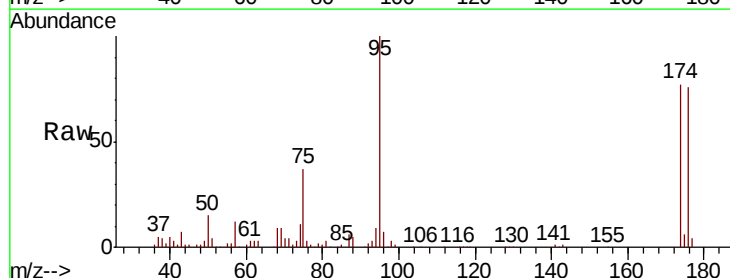
Tgt Ion: 75 Resp: 78242

Ion Ratio Lower Upper

75 100

53 0.6 65.3 97.9#

89 0.0 33.8 50.6#



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

