

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\
 Data File : VD062027.D
 Acq On : 25 Apr 2019 8:11
 Operator : VA/AP
 Sample : K2518-05RE
 Misc : 5.08g/5ml/MSVOA D/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 25 08:52:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	30891	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	54853	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	43571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	15189	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	31581	130.62	ug/l	0.01
Spiked Amount			Recovery	=	261.24%	
35) Dibromofluoromethane	6.94	113	23652	62.35	ug/l	0.01
Spiked Amount			Recovery	=	124.70%	
50) Toluene-d8	10.42	98	36729	40.69	ug/l	0.00
Spiked Amount			Recovery	=	81.38%	
62) 4-Bromofluorobenzene	13.56	95	18454	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	

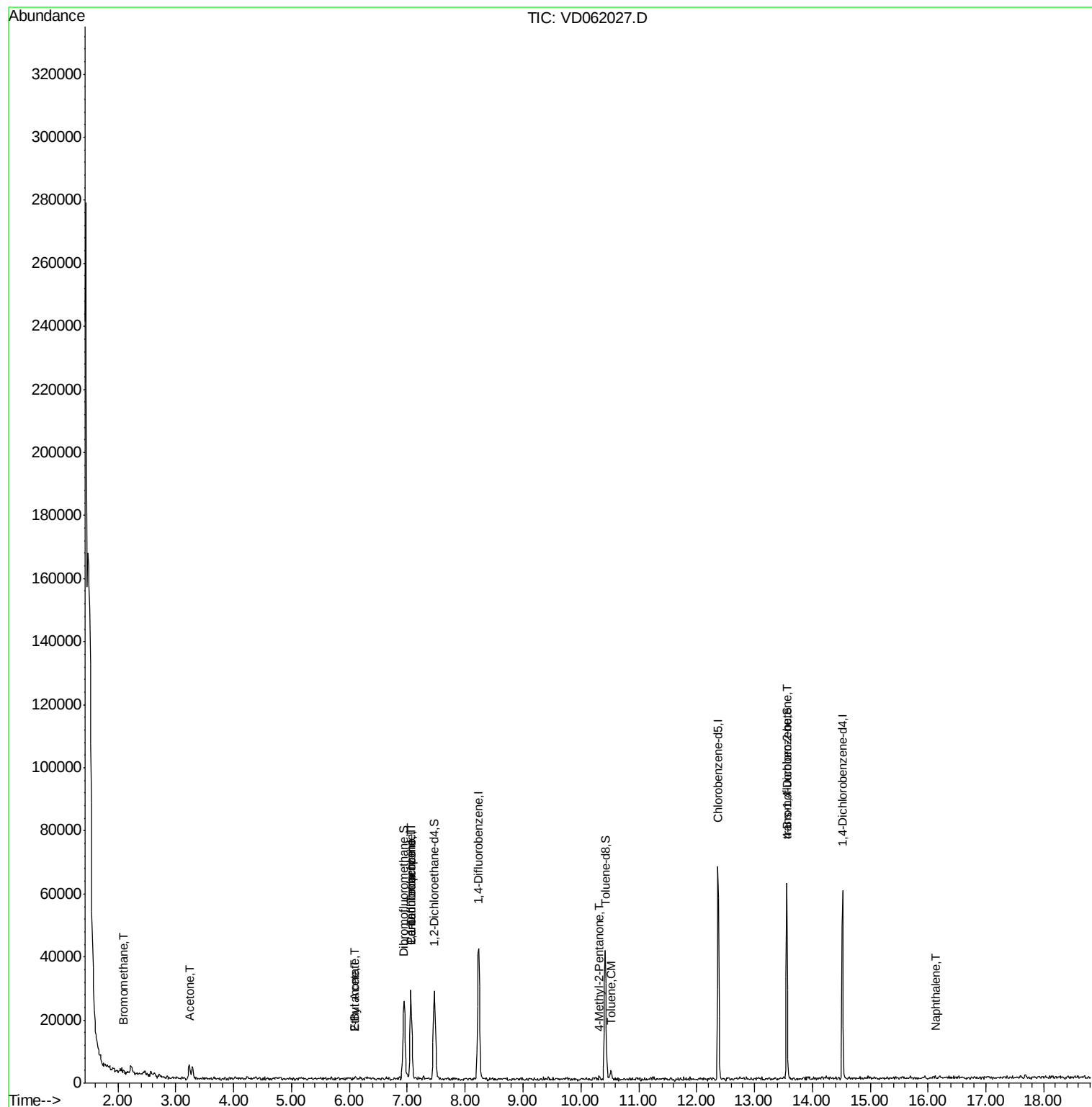
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.10	94	415	5.893	ug/l #	12
16) Acetone	3.22	43	7887	136.624	ug/l #	86
18) Methyl Acetate	3.66	43	217	Below Cal	#	53
20) Methylene Chloride	3.84	84	207	Below Cal	#	8
25) 2-Butanone	6.09	43	956	13.659	ug/l #	56
36) 1,1-Dichloropropene	7.05	75	1351	3.161	ug/l #	40
37) Ethyl Acetate	6.09	43	956	5.249	ug/l #	64
38) Carbon Tetrachloride	7.07	117	2178	4.022	ug/l #	12
51) 4-Methyl-2-Pentanone	10.31	43	736	4.523	ug/l #	37
52) Toluene	10.52	92	2100	3.113	ug/l	88
81) trans-1,4-Dichloro-2-buten	13.56	75	6891	117.897	ug/l #	16
95) Naphthalene	16.13	128	927	2.534	ug/l #	70

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 23 14:52:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

Instrument :

MSVOA_D

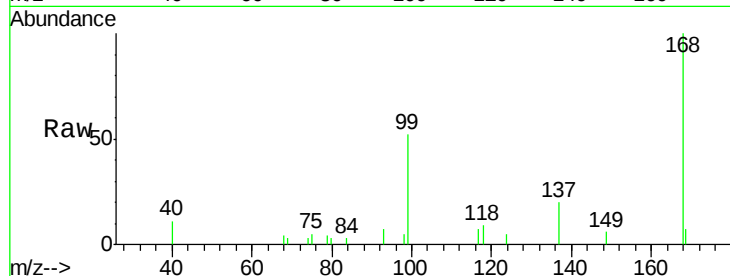
ClientSampleId :

Tot Ion:168 Resp: 30891

Ion Ratio Lower Upper

168 100

99 52.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

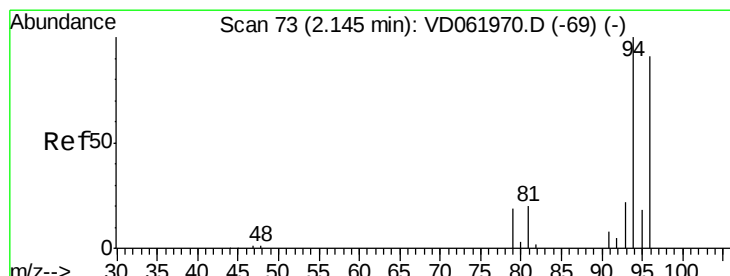
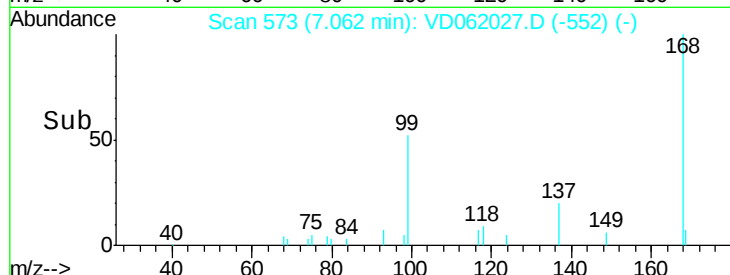
7.06

10000

5000

0

Time-->



#5

Bromomethane

Concen: 5.893 ug/l

RT: 2.10 min Scan# 69

Delta R.T. -0.06 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

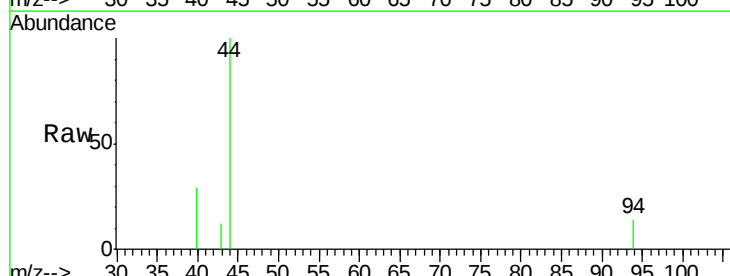
Tgt Ion: 94 Resp: 415

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



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

600

500

400

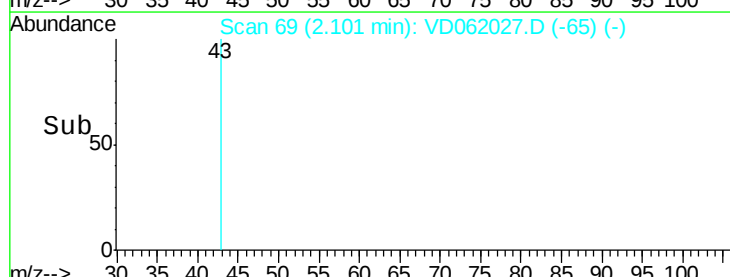
300

200

100

0

Time-->





#16

Acetone

Concen: 136.624 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

Instrument :

MSVOA_D

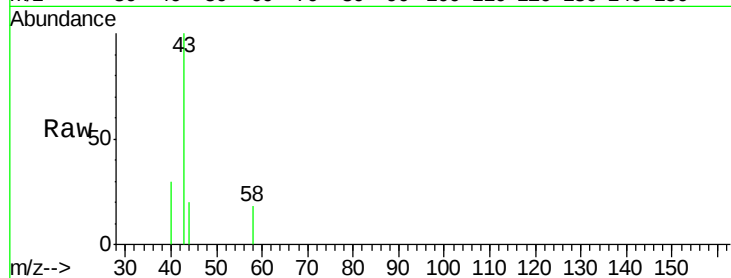
ClientSampleId :

Tot Ion: 43 Resp: 7887

Ion Ratio Lower Upper

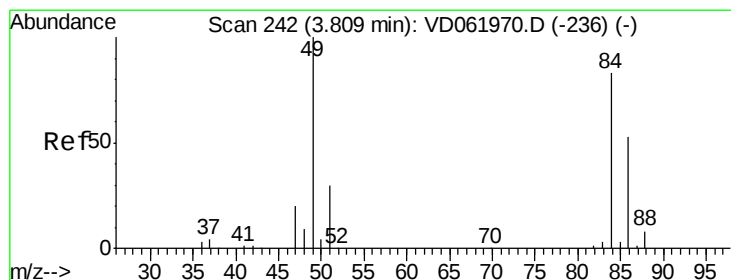
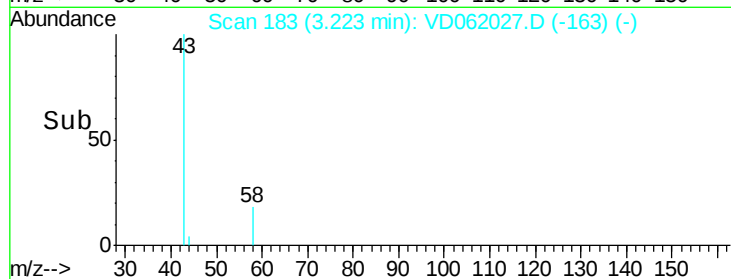
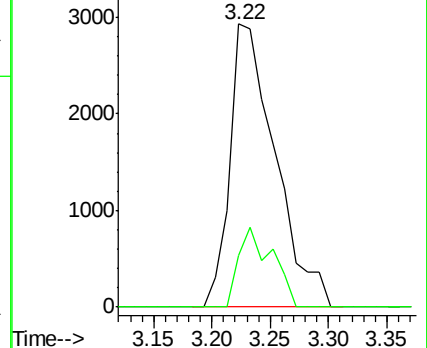
43 100

58 18.1 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 3.84 min Scan# 246

Delta R.T. 0.02 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

Tgt Ion: 84 Resp: 207

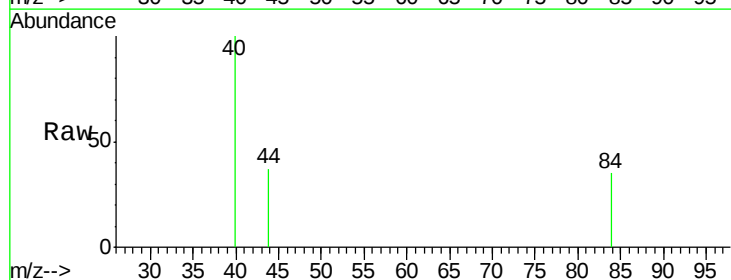
Ion Ratio Lower Upper

84 100

49 0.0 94.0 141.0#

51 0.0 29.0 43.4#

86 0.0 49.8 74.6#

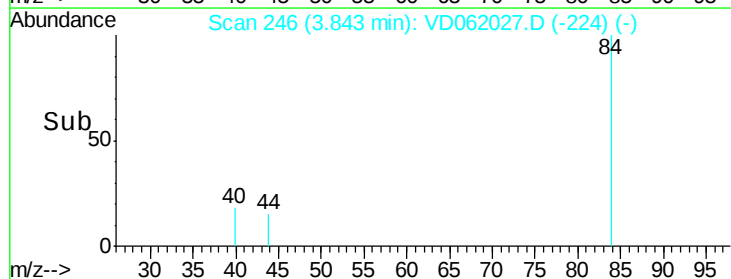
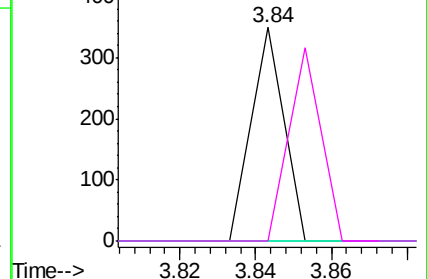


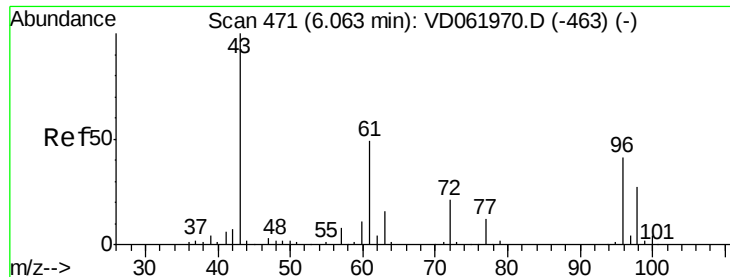
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

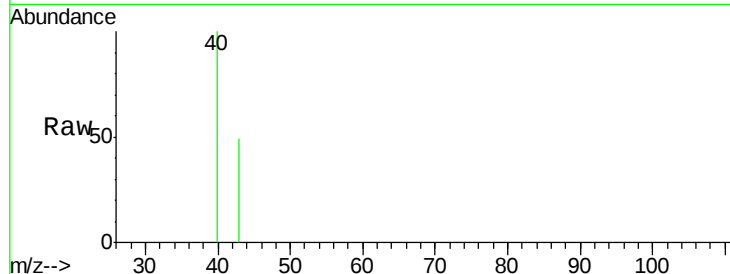




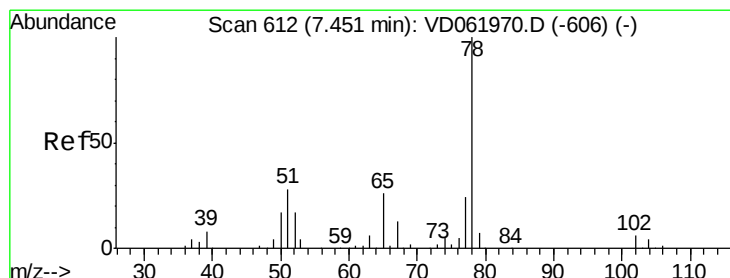
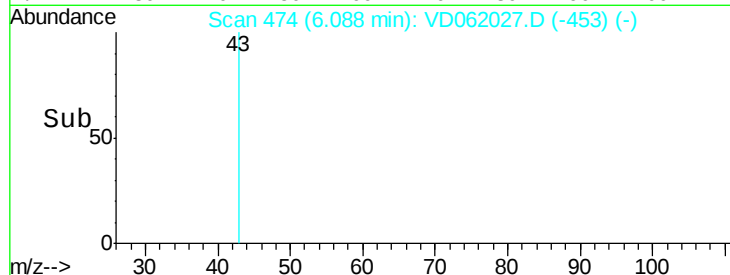
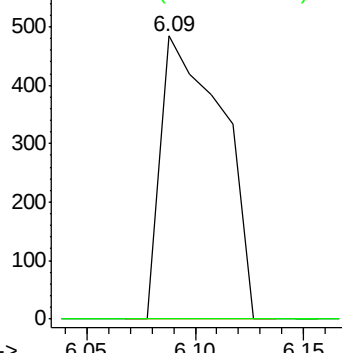
#25
 2-Butanone
 Concen: 13.659 ug/l
 RT: 6.09 min Scan# 474
 Delta R.T. 0.01 min
 Lab File: VD062027.D
 Acq: 25 Apr 2019 8:11

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 43 Resp: 956
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.2 24.4#

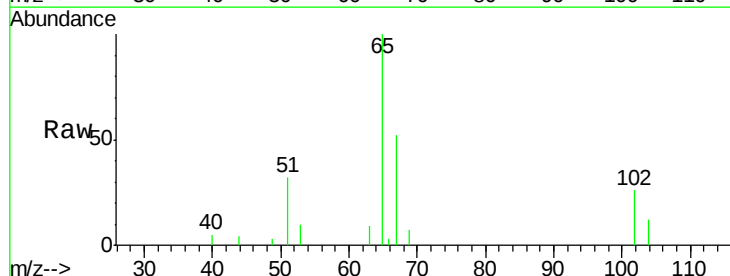


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 72.00 (71.70 to 72.70): VDC

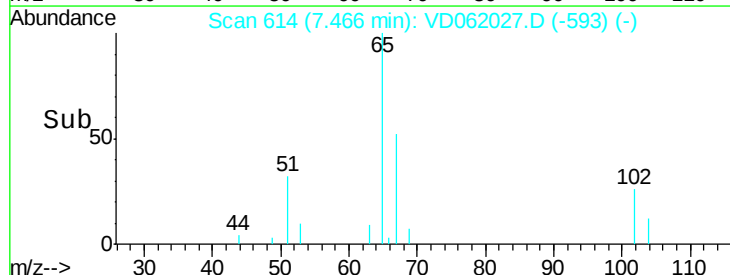
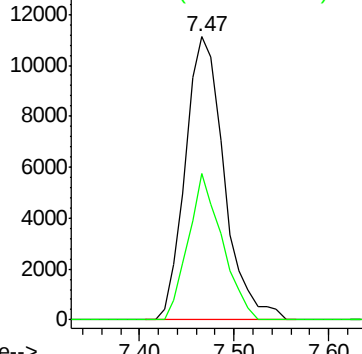


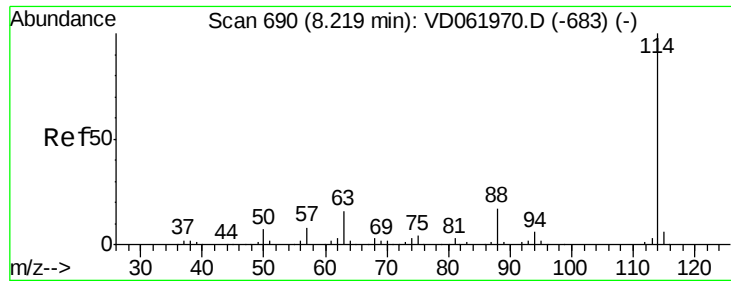
#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.01 min
 Lab File: VD062027.D
 Acq: 25 Apr 2019 8:11

Tgt Ion: 65 Resp: 31581
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 98.0



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

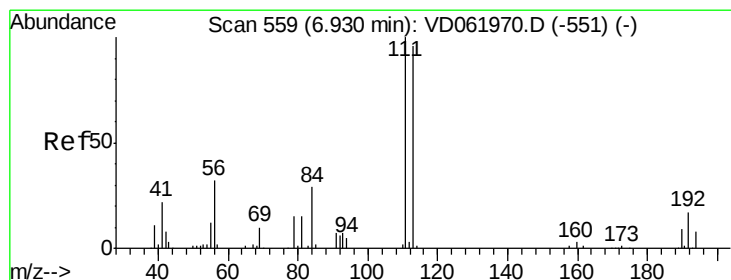
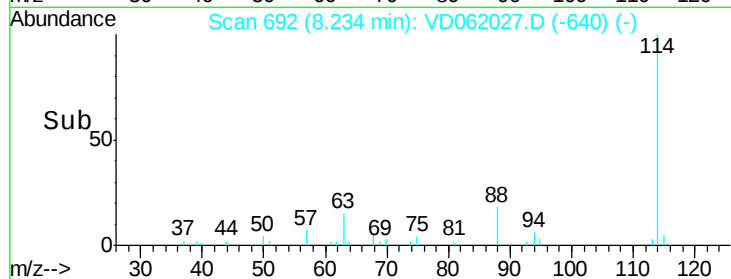
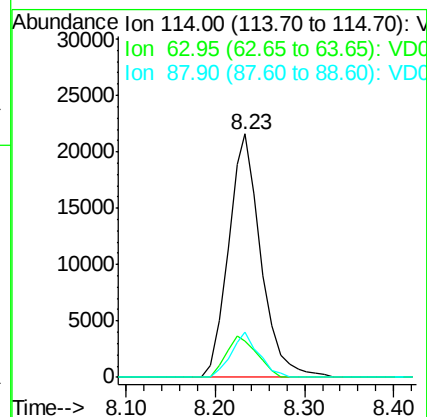
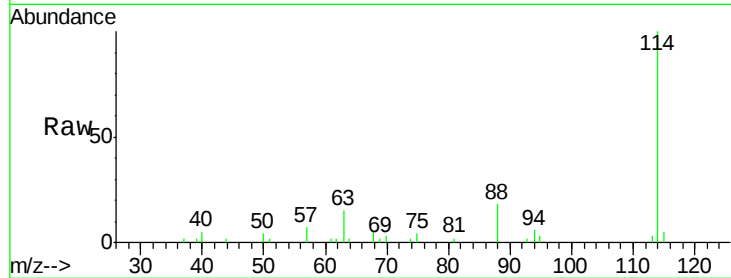




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.01 min
 Lab File: VD062027.D
 Acq: 25 Apr 2019 8:11

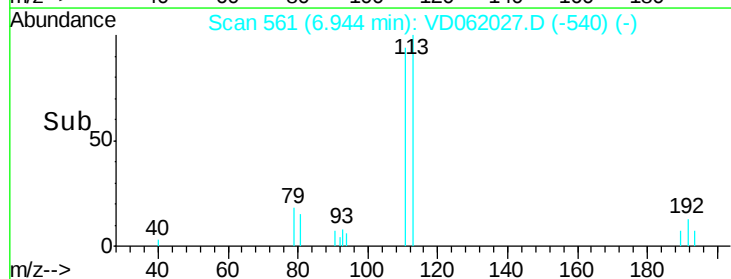
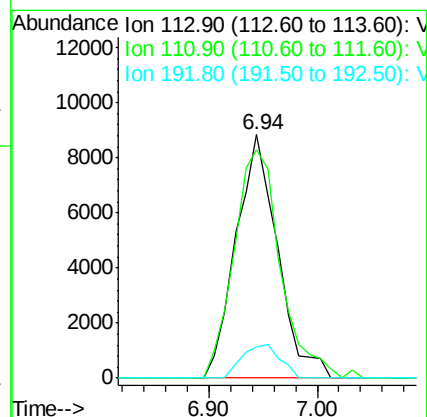
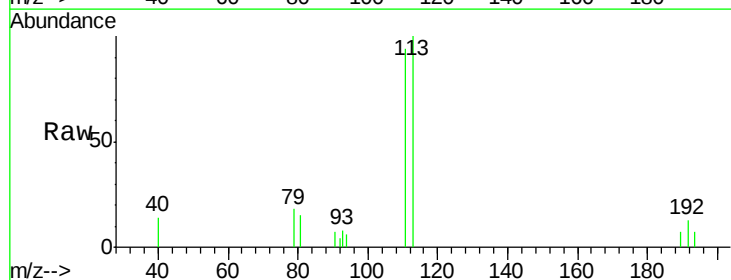
Instrument :
 MSVOA_D
 ClientSampleId :

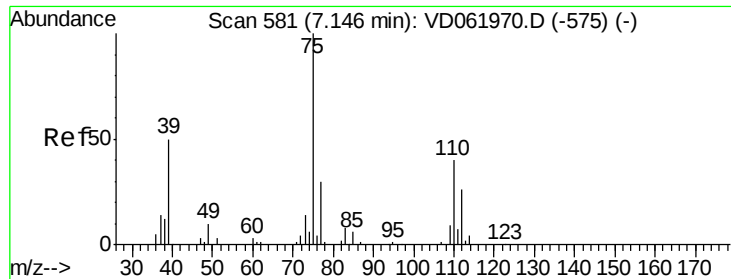
Tot Ion:114 Resp: 54853
 Ion Ratio Lower Upper
 114 100
 63 14.7 0.0 32.4
 88 18.5 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.94 min Scan# 561
 Delta R.T. 0.01 min
 Lab File: VD062027.D
 Acq: 25 Apr 2019 8:11

Tgt Ion:113 Resp: 23652
 Ion Ratio Lower Upper
 113 100
 111 93.8 78.5 117.7
 192 12.8 13.0 19.4#





#36

1,1-Dichloropropene

Concen: 3.161 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.10 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

Instrument :

MSVOA_D

ClientSampleId :

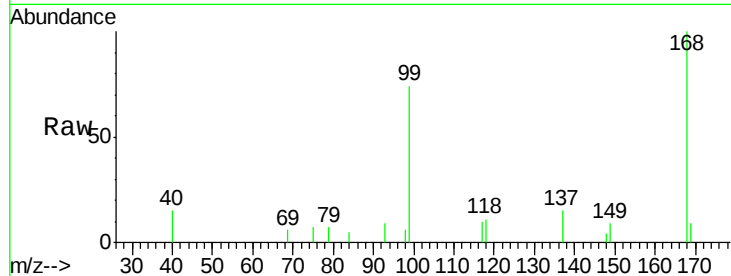
Tot Ion: 75 Resp: 1351

Ion Ratio Lower Upper

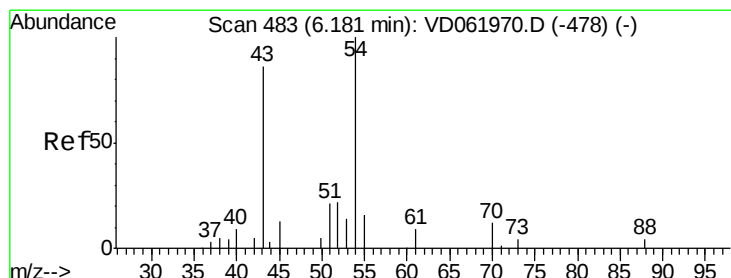
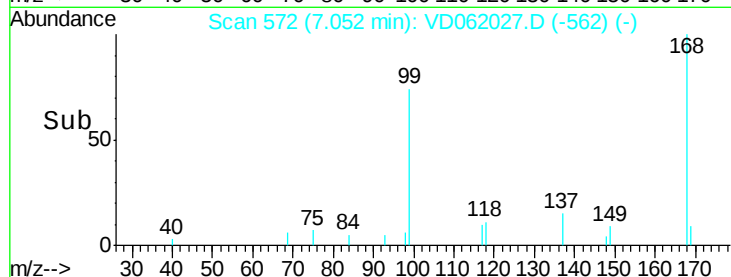
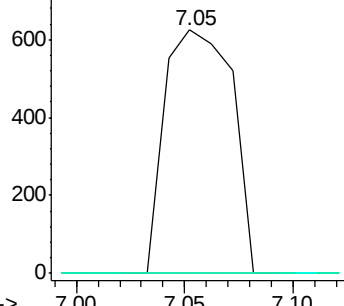
75 100

110 0.0 19.1 57.1#

77 0.0 25.6 38.4#



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



#37

Ethyl Acetate

Concen: 5.249 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.10 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

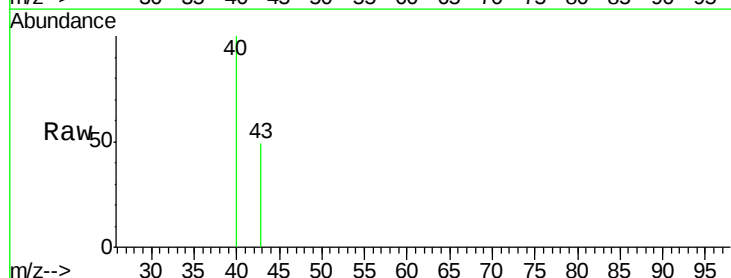
Tgt Ion: 43 Resp: 956

Ion Ratio Lower Upper

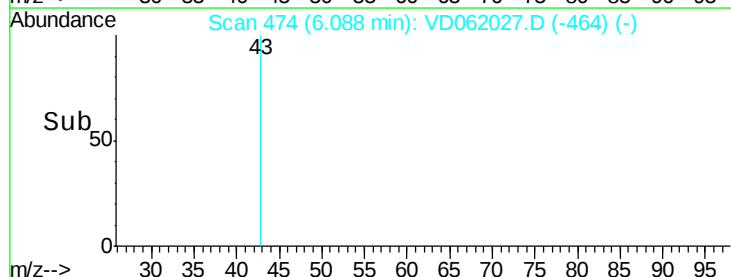
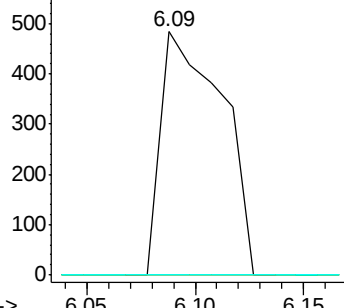
43 100

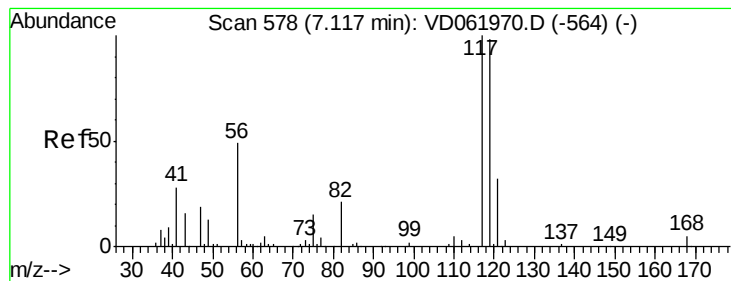
61 0.0 14.7 22.1#

70 0.0 7.8 11.6#



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: 4.022 ug/l

RT: 7.07 min Scan# 574

Delta R.T. -0.05 min

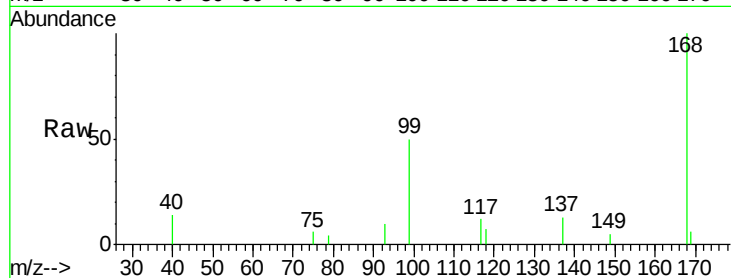
Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

Instrument :

MSVOA_D

ClientSampled :



Tot Ion:117 Resp: 2178

Ion Ratio Lower Upper

117 100

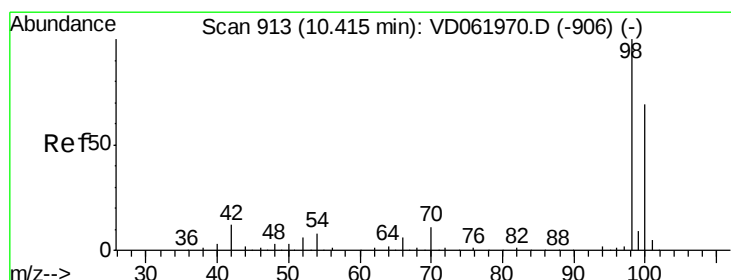
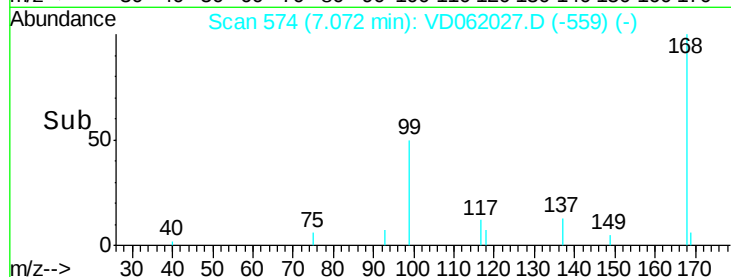
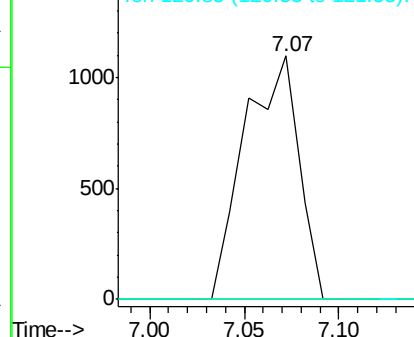
119 0.0 75.8 113.8#

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. 0.00 min

Lab File: VD062027.D

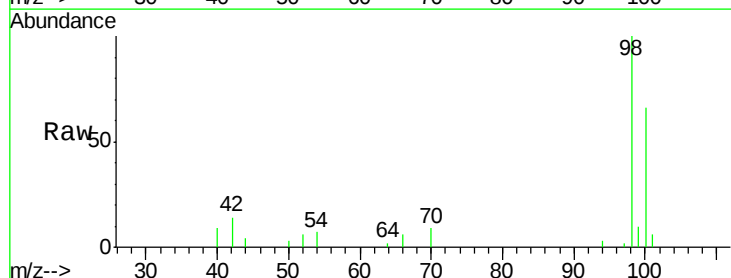
Acq: 25 Apr 2019 8:11

Tgt Ion: 98 Resp: 36729

Ion Ratio Lower Upper

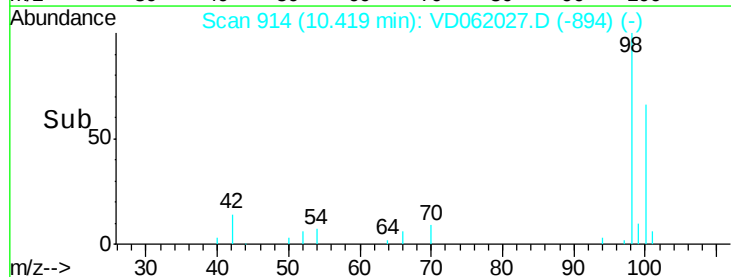
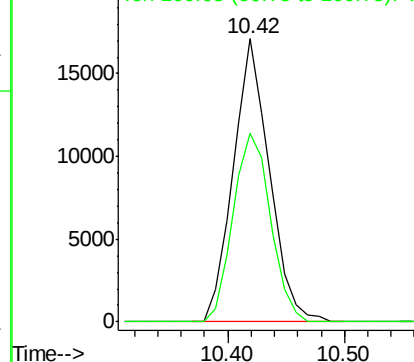
98 100

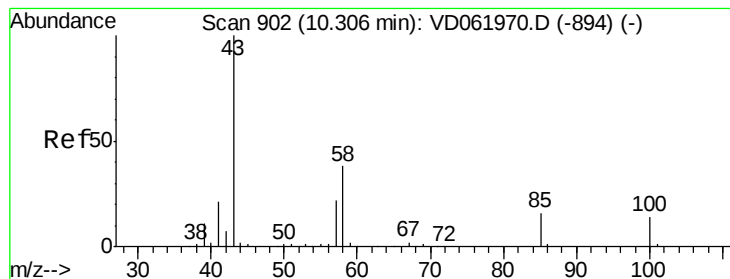
100 66.5 53.8 80.8



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: 4.523 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

Instrument :

MSVOA_D

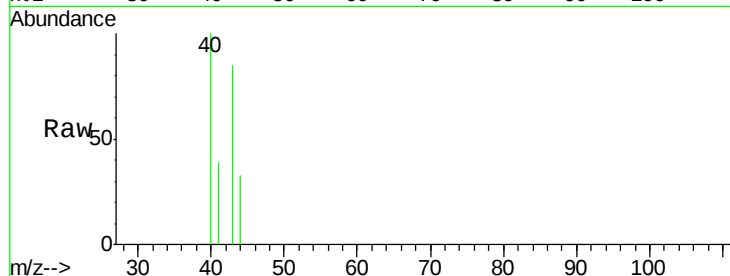
ClientSampled :

Tot Ion: 43 Resp: 736

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

800

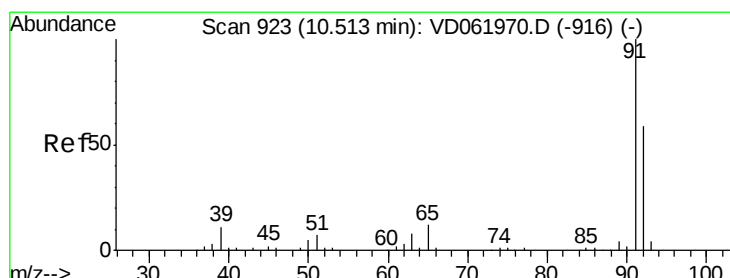
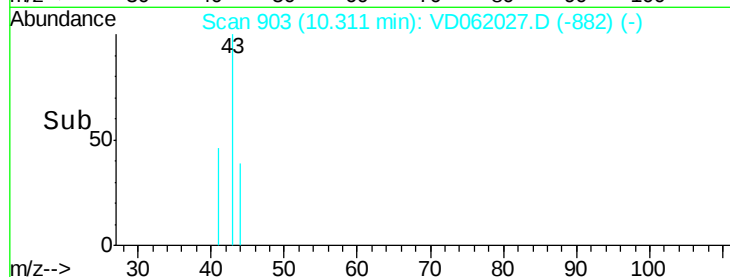
600

400

200

0

Time-->



#52

Toluene

Concen: 3.113 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.00 min

Lab File: VD062027.D

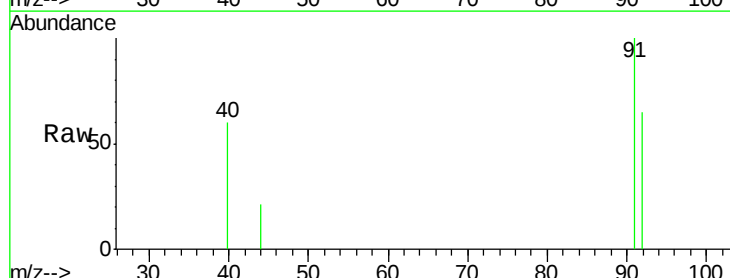
Acq: 25 Apr 2019 8:11

Tgt Ion: 92 Resp: 2100

Ion Ratio Lower Upper

92 100

91 153.9 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

2000

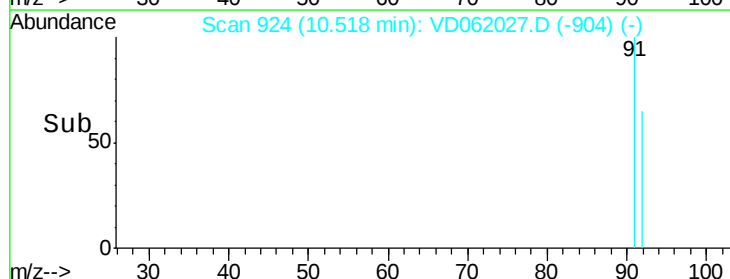
1500

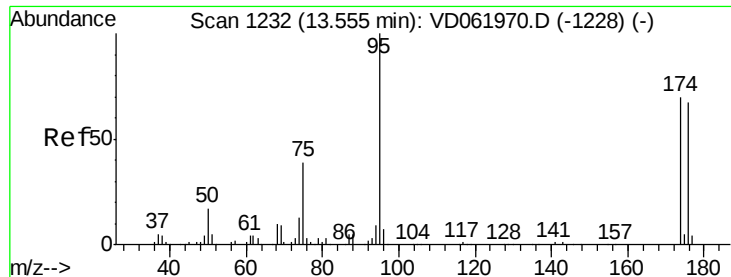
1000

500

0

Time-->

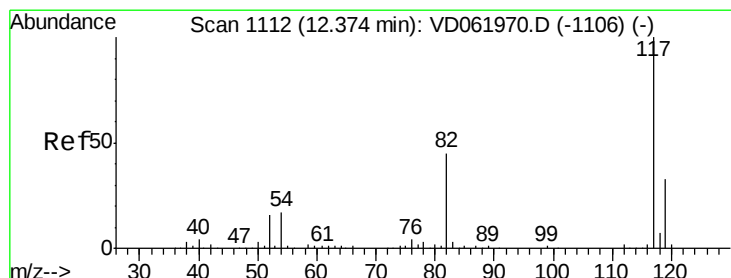
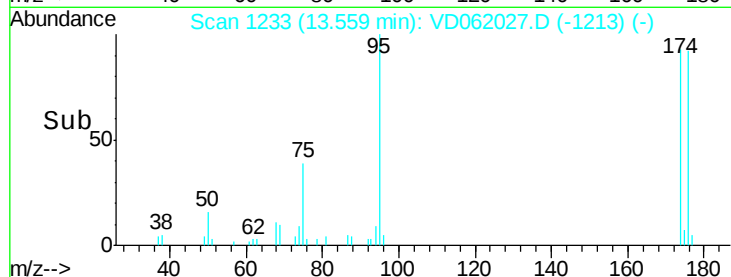
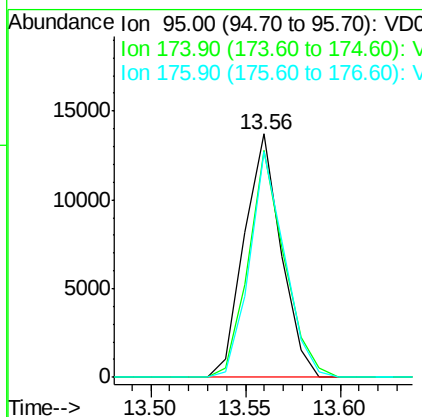
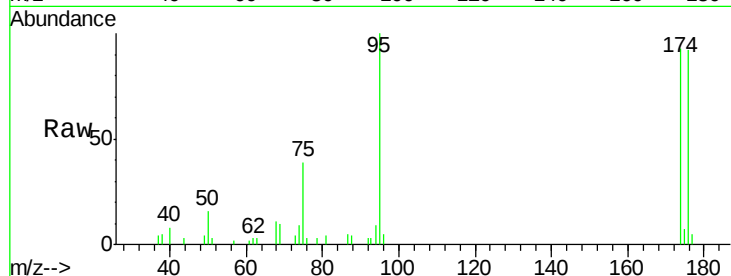




#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VD062027.D
 Acq: 25 Apr 2019 8:11

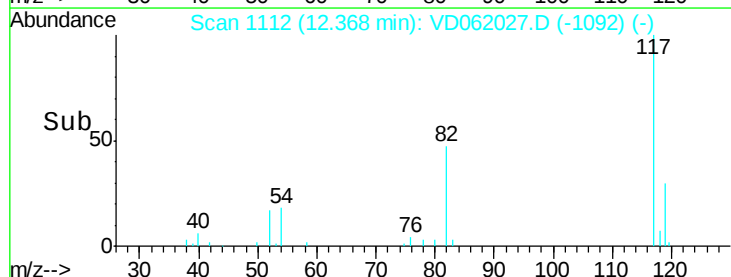
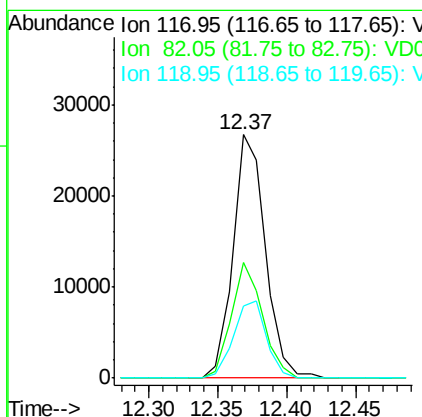
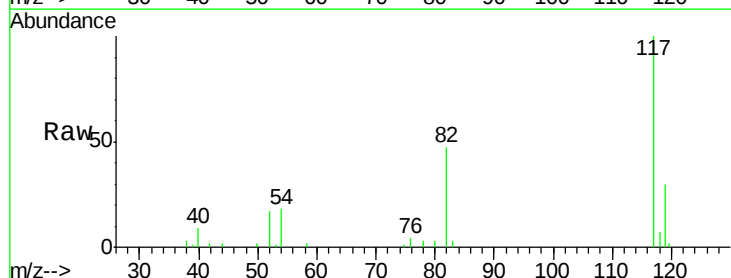
Instrument :
 MSVOA_D
 ClientSampleId :

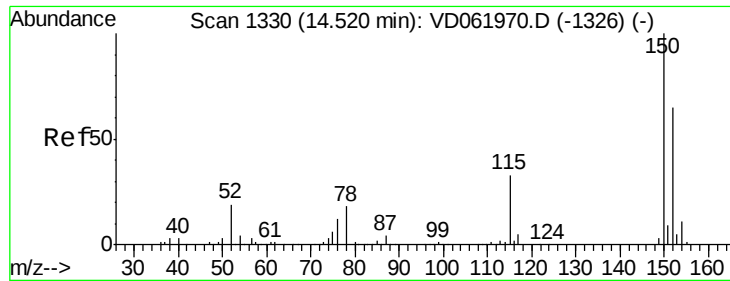
Tot Ion: 95 Resp: 18454
 Ion Ratio Lower Upper
 95 100
 174 93.4 0.0 181.8
 176 92.5 0.0 174.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.37 min Scan# 1112
 Delta R.T. 0.00 min
 Lab File: VD062027.D
 Acq: 25 Apr 2019 8:11

Tgt Ion: 117 Resp: 43571
 Ion Ratio Lower Upper
 117 100
 82 47.3 36.2 54.2
 119 29.6 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

Instrument :

MSVOA_D

ClientSampleId :

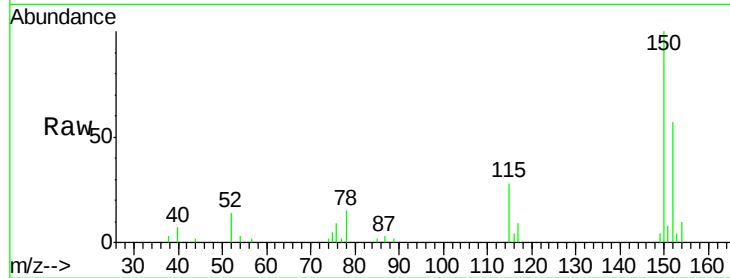
Tot Ion:152 Resp: 15189

Ion Ratio Lower Upper

152 100

115 49.2 30.9 92.7

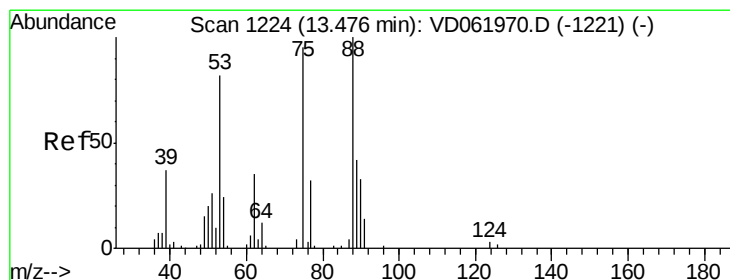
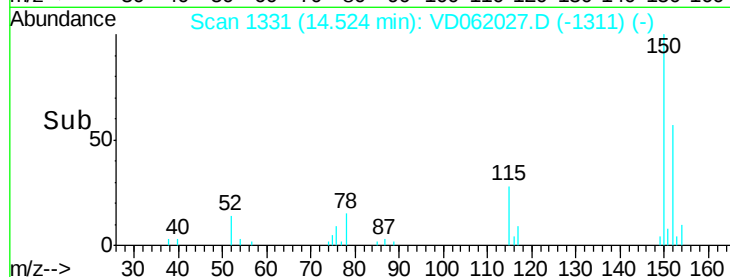
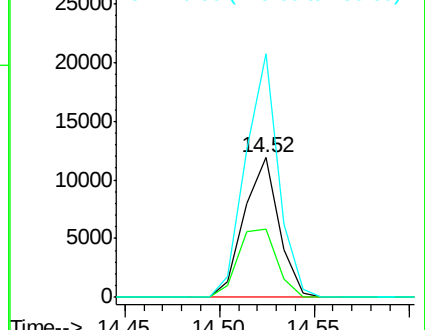
150 174.3 0.0 314.8



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: 117.897 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

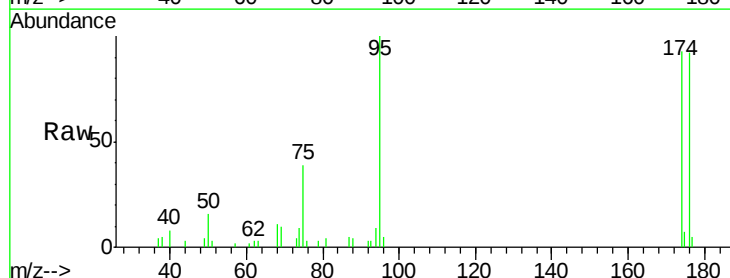
Tgt Ion: 75 Resp: 6891

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

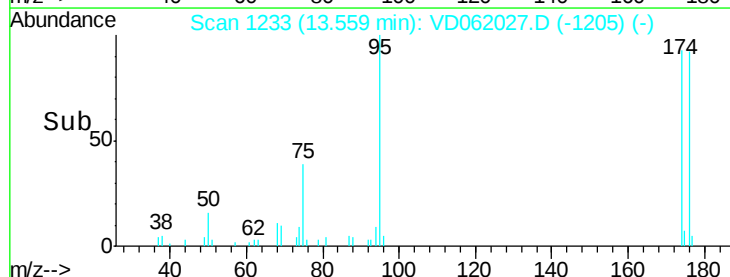
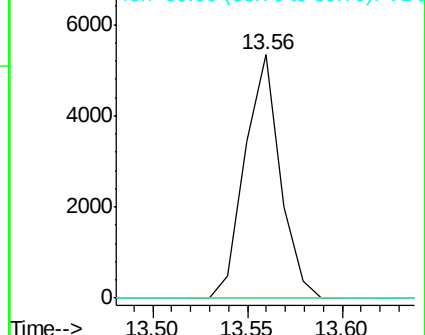
89 0.0 35.0 52.6#

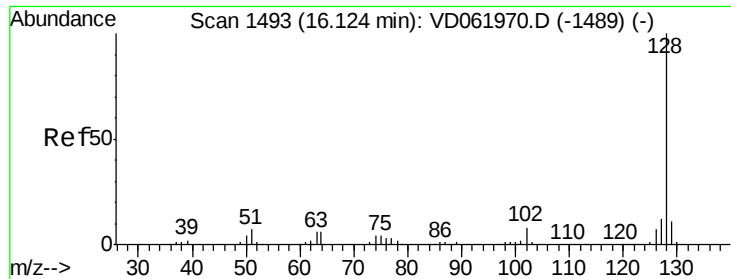


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Napthalene

Concen: 2.534 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.00 min

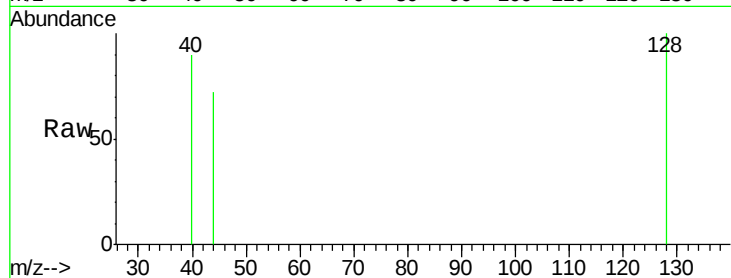
Lab File: VD062027.D

Acq: 25 Apr 2019 8:11

Instrument :

MSVOA_D

ClientSampleId :



Tot Ion:128 Resp: 927

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.8 13.2#

