

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121918\
 Data File : VD060639.D
 Acq On : 19 Dec 2018 14:39
 Operator : VA/AP
 Sample : J6194-09
 Misc : 7.1G/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 20 00:30:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1593411	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.44	114	2243823	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.28	117	1714298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	633369	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	551385	48.82	ug/l	0.00
Spiked Amount				50.000		
Recovery						97.64%
35) Dibromofluoromethane	6.32	113	750727	45.55	ug/l	0.00
Spiked Amount				50.000		
Recovery						91.10%
50) Toluene-d8	9.45	98	1891507	39.66	ug/l	0.00
Spiked Amount				50.000		
Recovery						79.32%
62) 4-Bromofluorobenzene	12.43	95	615331	36.06	ug/l	0.00
Spiked Amount				50.000		
Recovery						72.12%

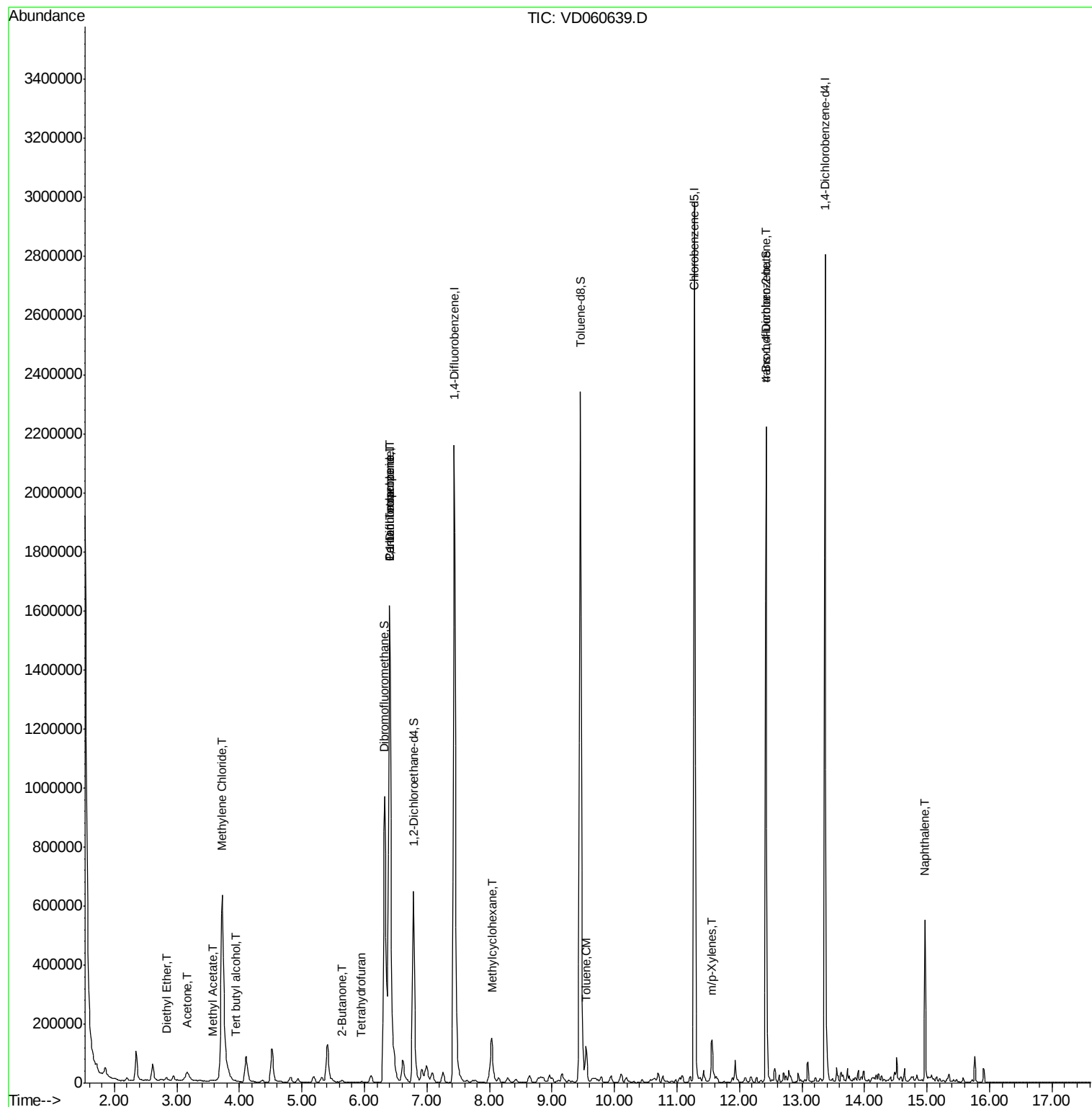
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	1640	Below Cal	#	41
8) Diethyl Ether	2.84	74	3788	1.454	ug/l	90
11) Tert butyl alcohol	3.95	59	609	1.327	ug/l #	73
16) Acetone	3.17	43	75640	41.782	ug/l	98
18) Methyl Acetate	3.57	43	5351	1.244	ug/l #	64
20) Methylene Chloride	3.73	84	368437	19.430	ug/l	99
25) 2-Butanone	5.63	43	8175	2.295	ug/l #	59
29) Tetrahydrofuran	5.95	42	2267	1.124	ug/l #	47
31) Cyclohexane	6.36	56	88731	Below Cal		89
36) 1,1-Dichloropropene	6.40	75	116425	5.308	ug/l #	47
38) Carbon Tetrachloride	6.40	117	121728	6.182	ug/l #	15
39) Methylcyclohexane	8.04	83	72710	2.908	ug/l	91
52) Toluene	9.54	92	57614	1.644	ug/l	90
68) m/p-Xylenes	11.56	106	43590	1.905	ug/l	87
81) trans-1,4-Dichloro-2-buten	12.43	75	250593	125.200	ug/l #	14
89) n-Butylbenzene	13.65	91	7288	Below Cal		99
95) Naphthalene	14.96	128	303222	18.704	ug/l	98

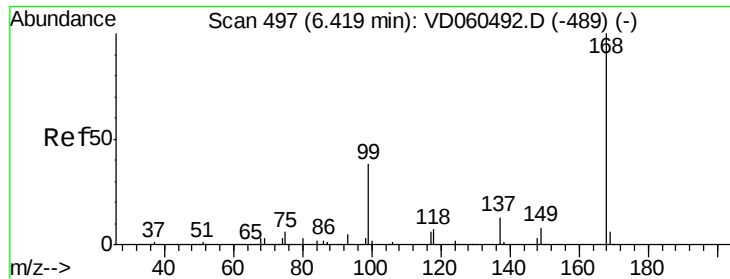
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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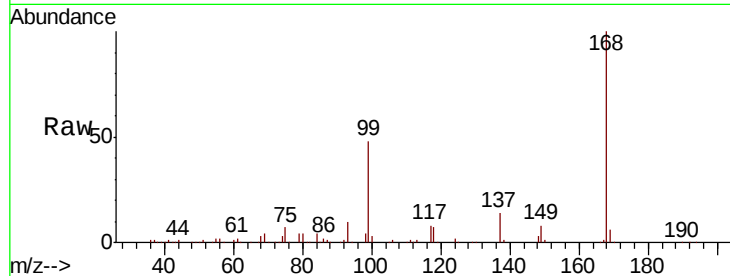


#1

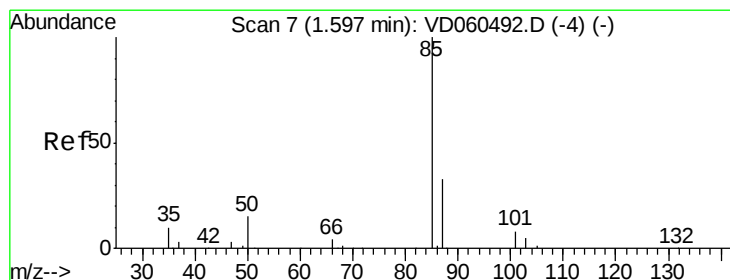
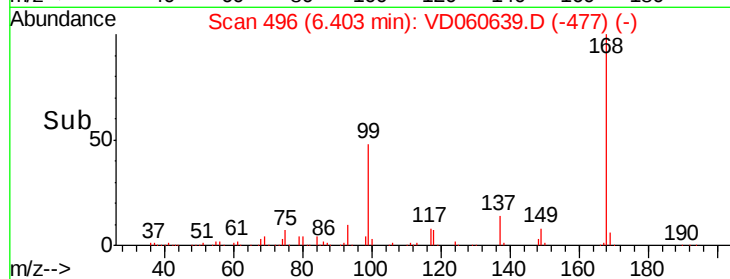
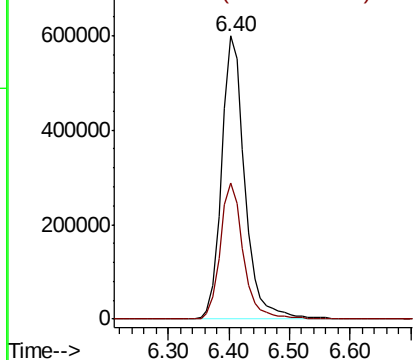
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 6.40 min Scan# 496
 Delta R.T. -0.02 min
 Lab File: VD060639.D
 Acq: 19 Dec 2018 14:39

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:168 Resp: 1593411
 Ion Ratio Lower Upper
 168 100
 99 48.1 35.6 53.4



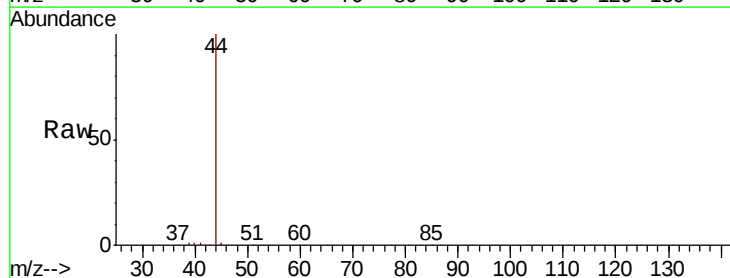
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



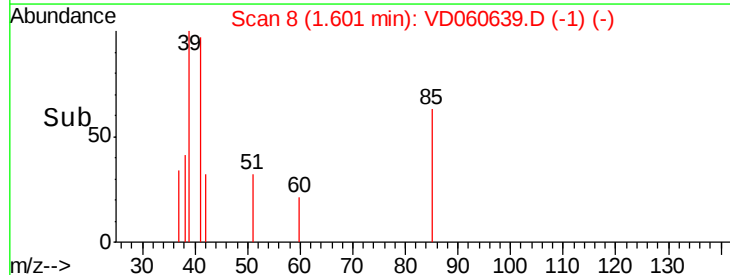
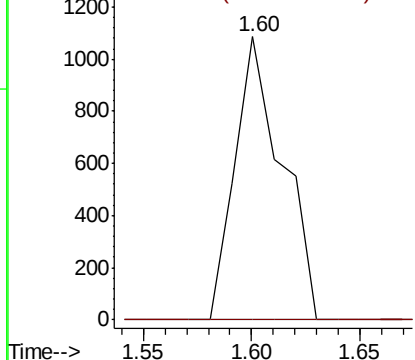
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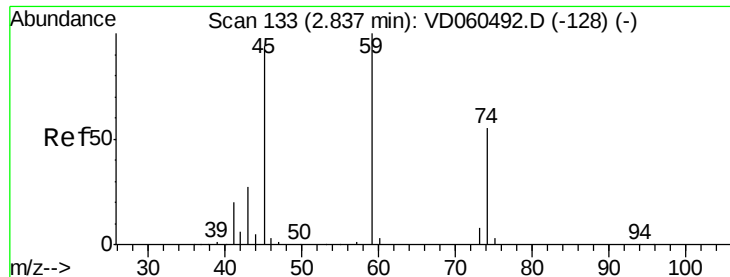
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.60 min Scan# 8
 Delta R.T. 0.00 min
 Lab File: VD060639.D
 Acq: 19 Dec 2018 14:39

Tgt Ion: 85 Resp: 1640
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.7 50.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC
 Ion 86.90 (86.60 to 87.60): VDC





#8

Diethyl Ether

Concen: 1.454 ug/l

RT: 2.84 min Scan# 134

Delta R.T. 0.00 min

Lab File: VD060639.D

Acq: 19 Dec 2018 14:39

Instrument :

MSVOA_D

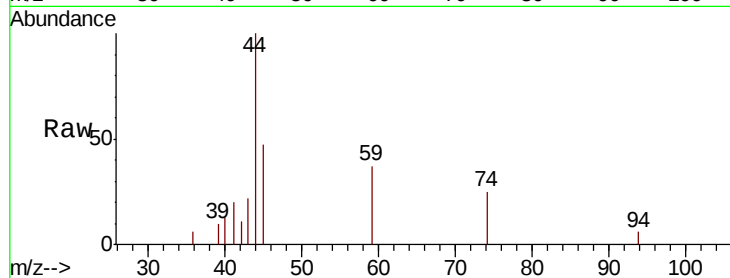
ClientSampleId :

Tot Ion: 74 Resp: 3788

Ion Ratio Lower Upper

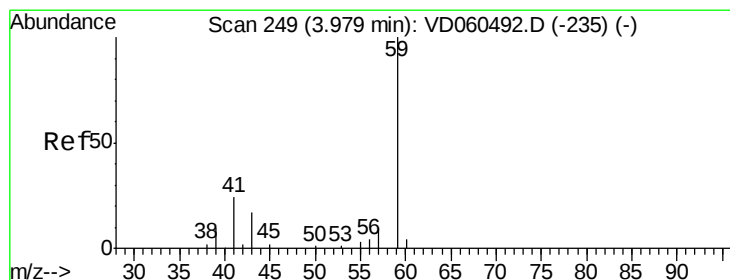
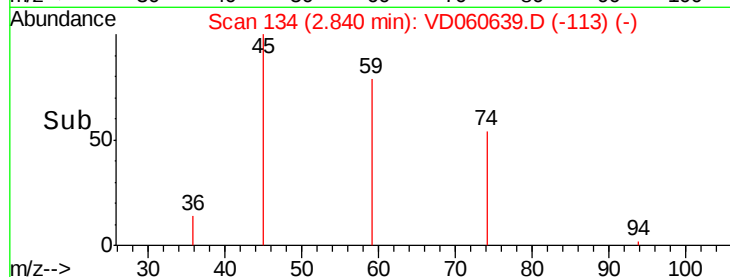
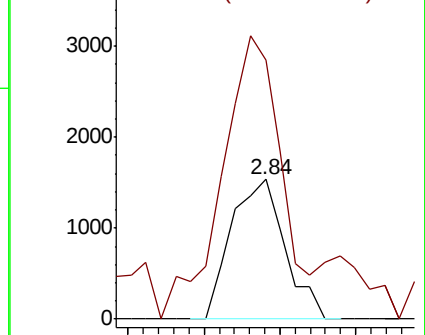
74 100

45 186.1 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 1.327 ug/l

RT: 3.95 min Scan# 247

Delta R.T. -0.03 min

Lab File: VD060639.D

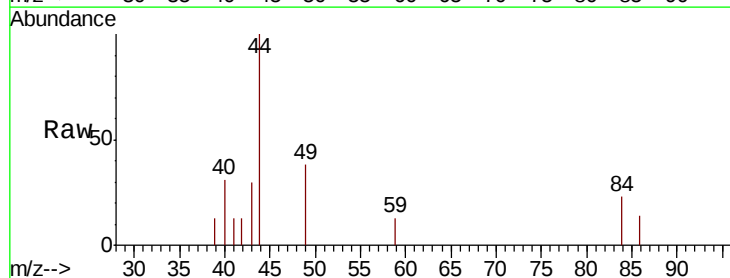
Acq: 19 Dec 2018 14:39

Tgt Ion: 59 Resp: 609

Ion Ratio Lower Upper

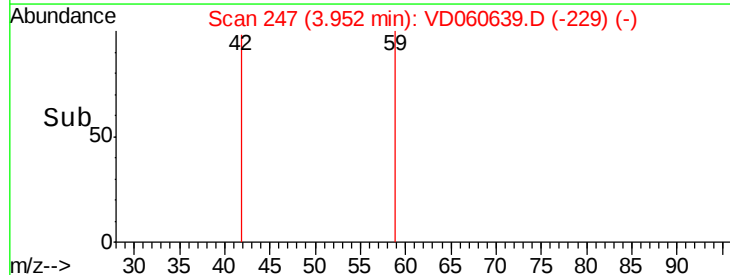
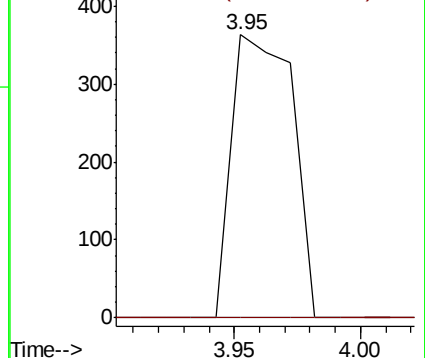
59 100

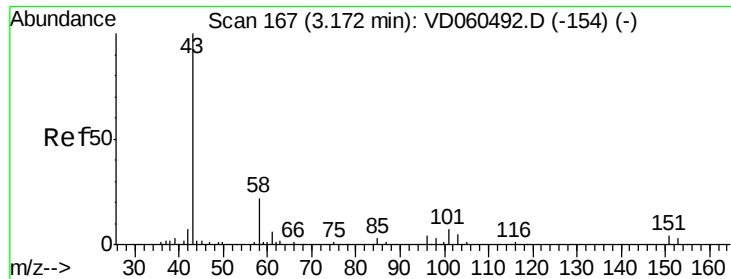
57 0.0 8.1 12.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 41.782 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD060639.D

Acq: 19 Dec 2018 14:39

Instrument :

MSVOA_D

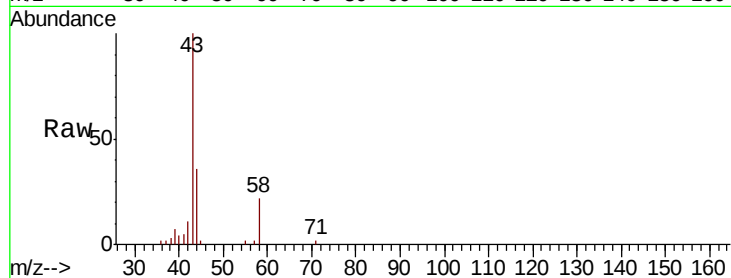
ClientSampleId :

Tot Ion: 43 Resp: 75640

Ion Ratio Lower Upper

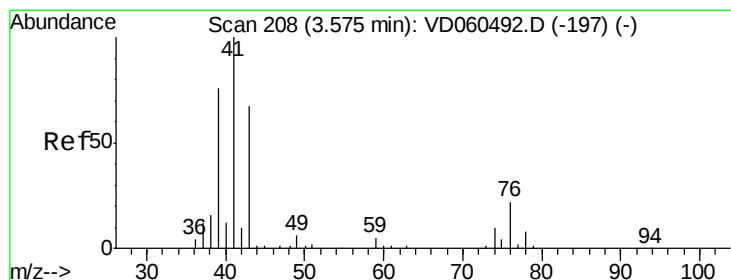
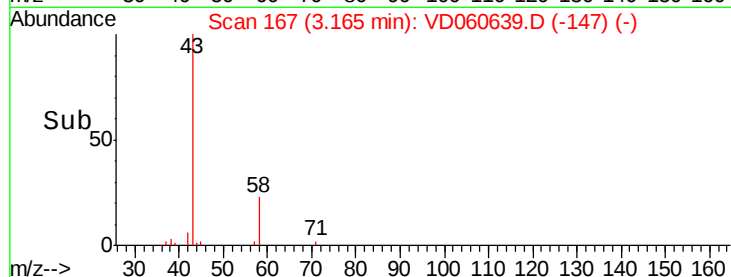
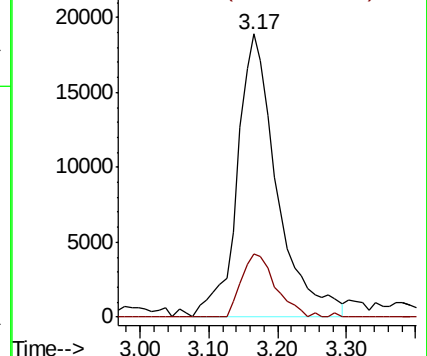
43 100

58 22.5 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.244 ug/l

RT: 3.57 min Scan# 208

Delta R.T. -0.01 min

Lab File: VD060639.D

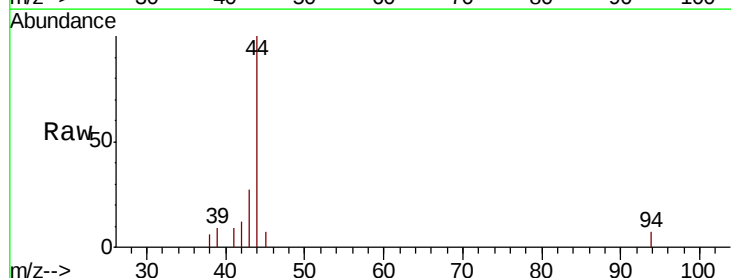
Acq: 19 Dec 2018 14:39

Tgt Ion: 43 Resp: 5351

Ion Ratio Lower Upper

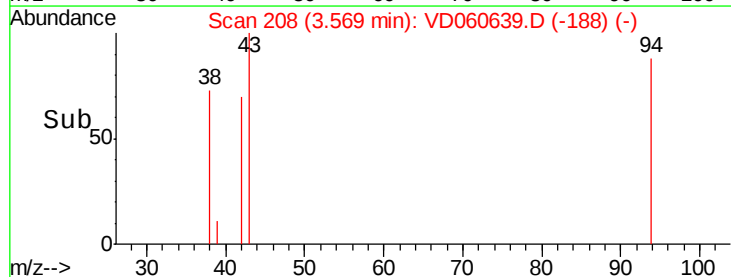
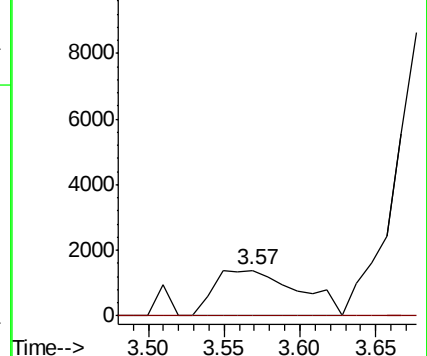
43 100

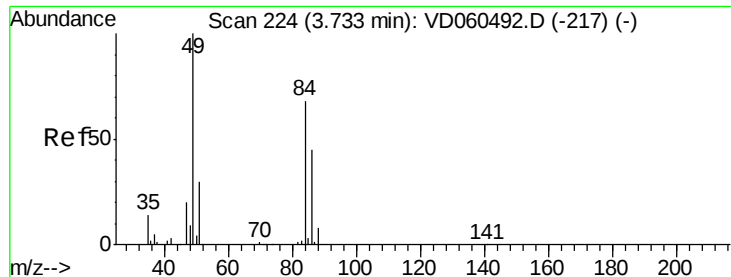
74 0.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

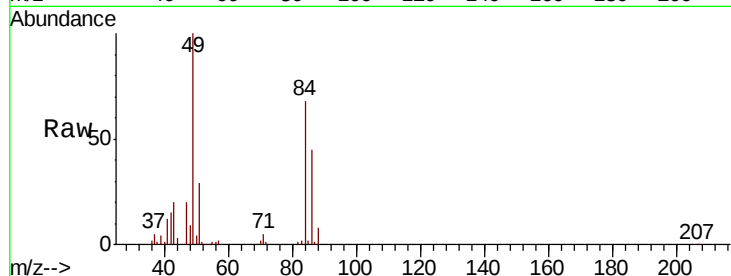




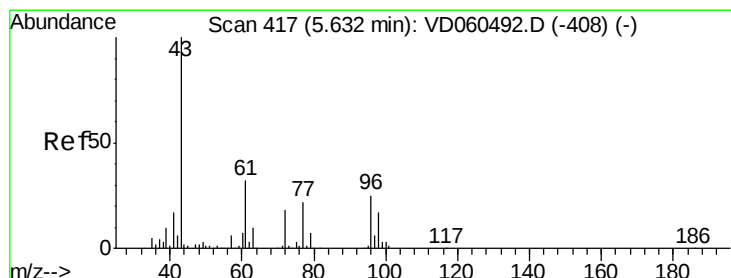
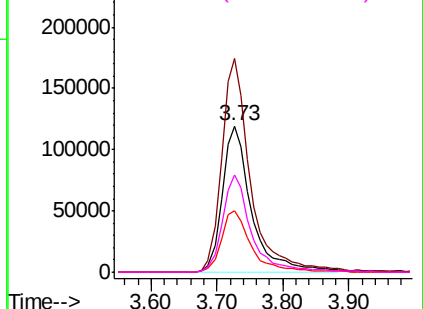
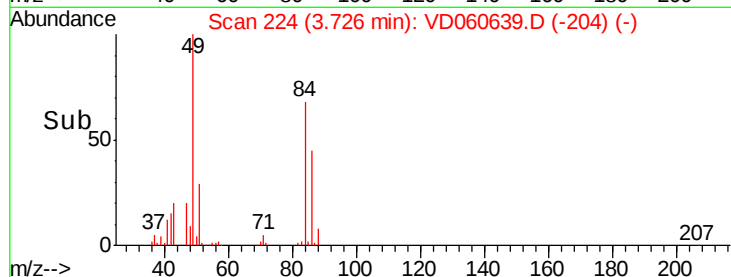
#20
Methvlene Chloride
Concen: 19.430 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD060639.D
Acq: 19 Dec 2018 14:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 368437
Ion Ratio Lower Upper
84 100
49 146.2 117.2 175.8
51 42.4 35.3 52.9
86 66.5 53.2 79.8

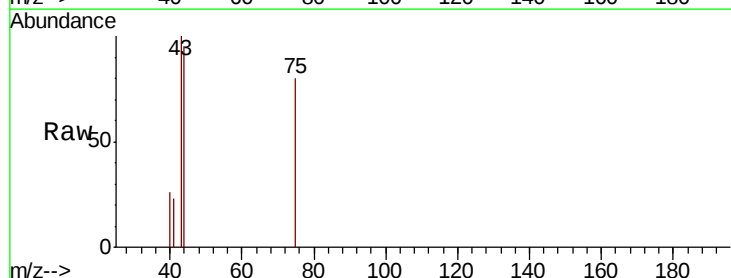


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

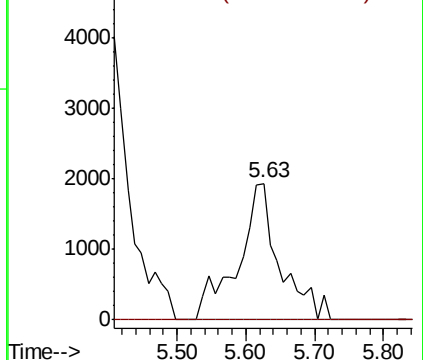
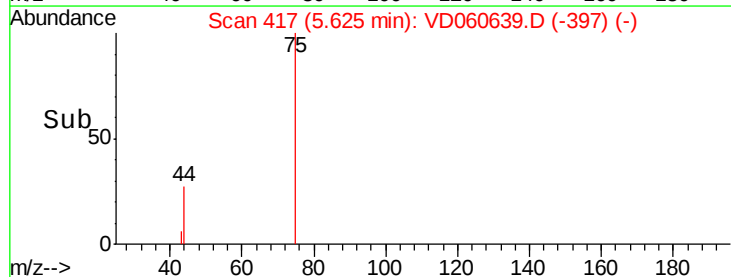


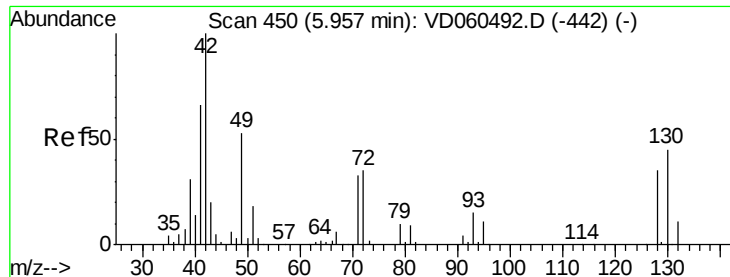
#25
2-Butanone
Concen: 2.295 ug/l
RT: 5.63 min Scan# 417
Delta R.T. -0.01 min
Lab File: VD060639.D
Acq: 19 Dec 2018 14:39

Tgt Ion: 43 Resp: 8175
Ion Ratio Lower Upper
43 100
72 0.0 14.6 21.8#



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

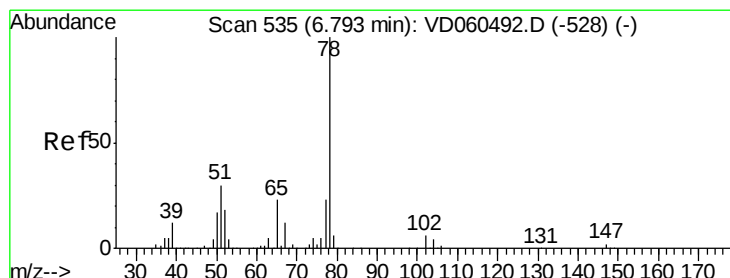
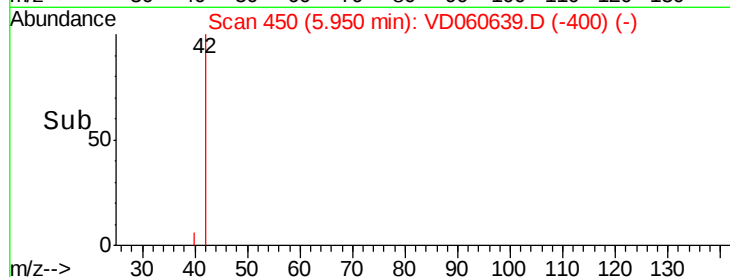
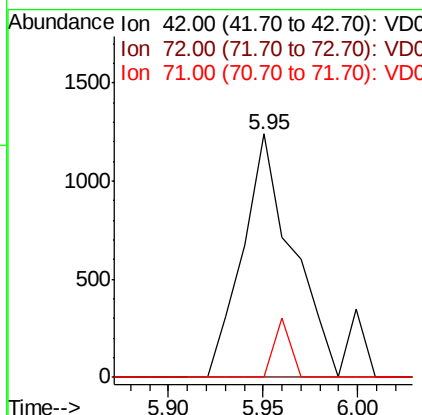
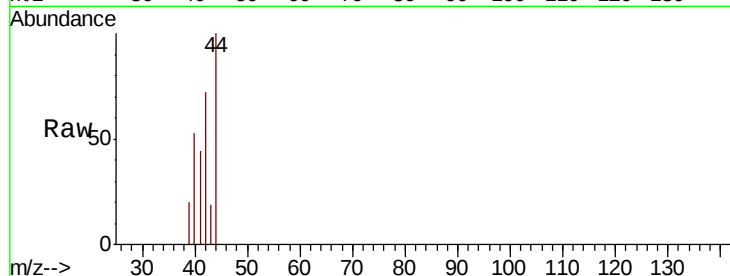




#29
Tetrahydrofuran
Concen: 1.124 ug/l
RT: 5.95 min Scan# 450
Delta R.T. -0.01 min
Lab File: VD060639.D
Acq: 19 Dec 2018 14:39

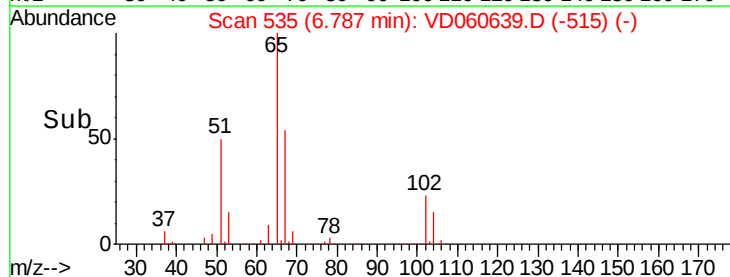
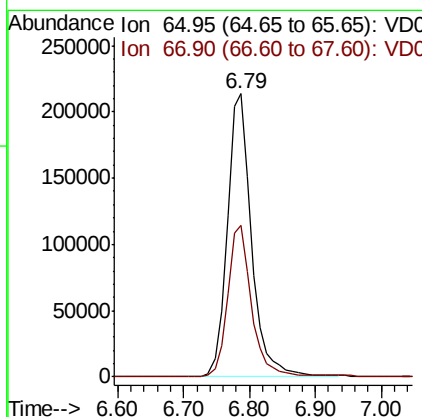
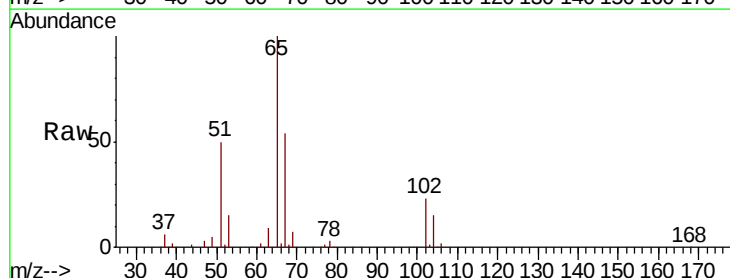
Instrument :
MSVOA_D
ClientSampleId :

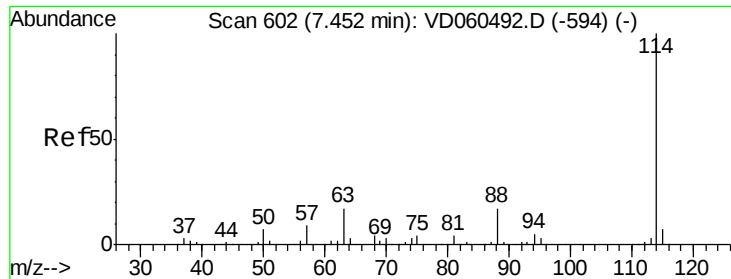
Tot Ion: 42 Resp: 2267
Ion Ratio Lower Upper
42 100
72 0.0 28.0 42.0#
71 7.9 27.2 40.8#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.79 min Scan# 535
Delta R.T. -0.01 min
Lab File: VD060639.D
Acq: 19 Dec 2018 14:39

Tgt Ion: 65 Resp: 551385
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.8

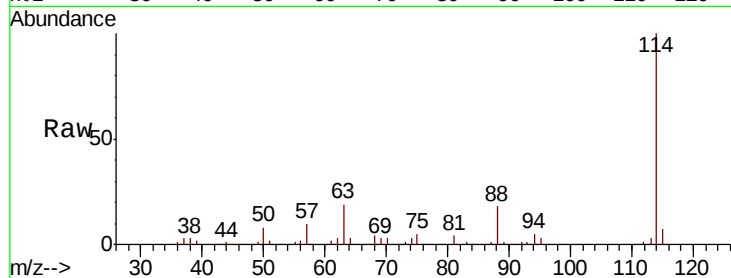




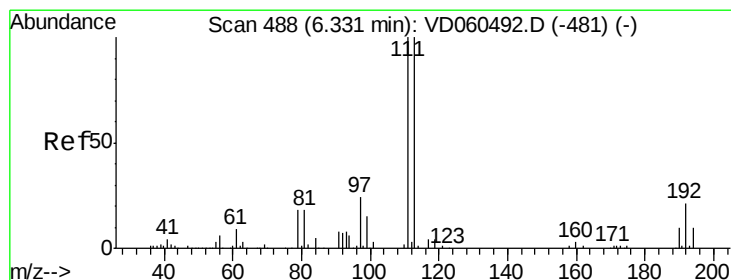
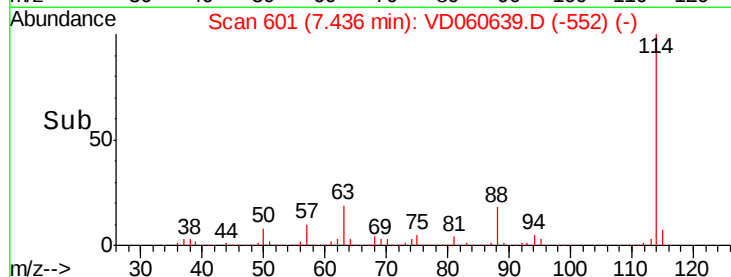
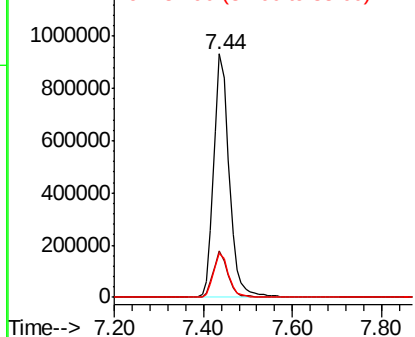
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 7.44 min Scan# 601
Delta R.T. -0.02 min
Lab File: VD060639.D
Acq: 19 Dec 2018 14:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 2243823
Ion Ratio Lower Upper
114 100
63 18.8 0.0 34.2
88 18.0 0.0 35.0

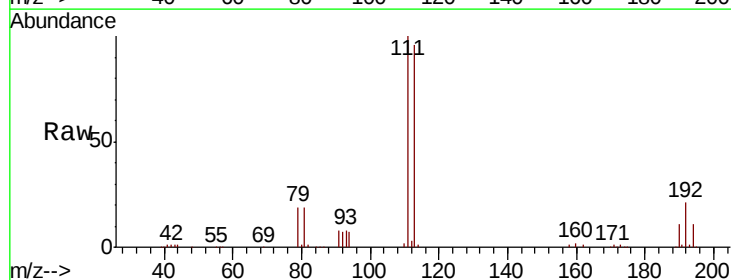


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

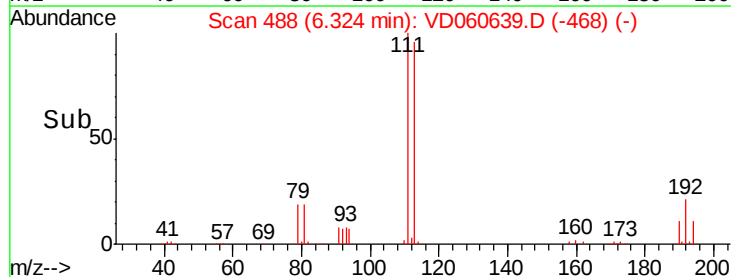
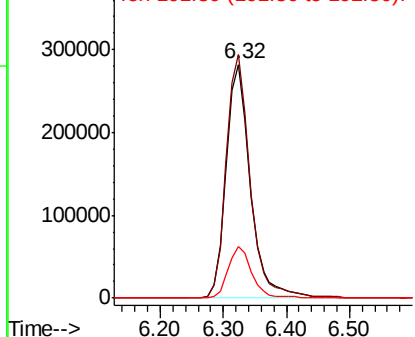


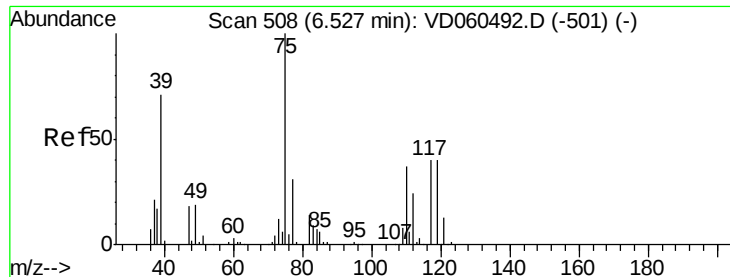
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.32 min Scan# 488
Delta R.T. -0.01 min
Lab File: VD060639.D
Acq: 19 Dec 2018 14:39

Tgt Ion:113 Resp: 750727
Ion Ratio Lower Upper
113 100
111 104.1 80.2 120.4
192 21.8 16.6 24.8



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

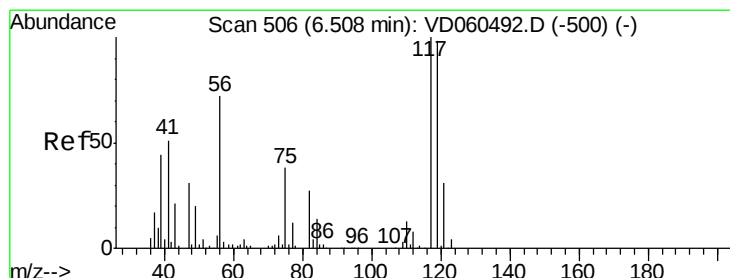
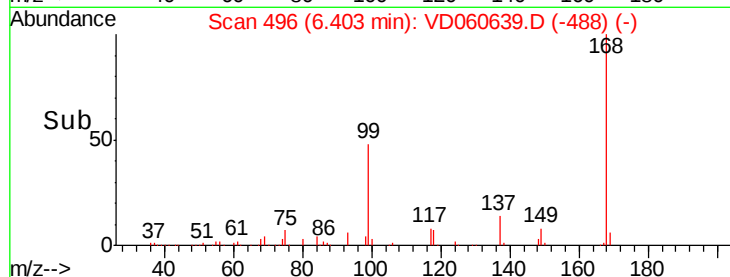
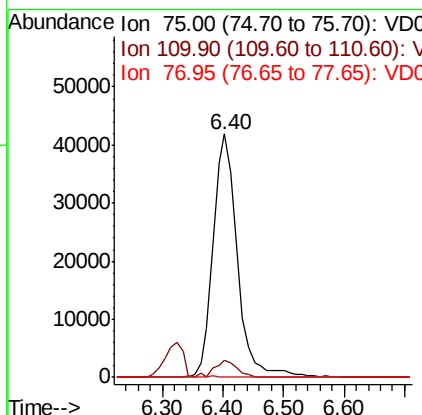
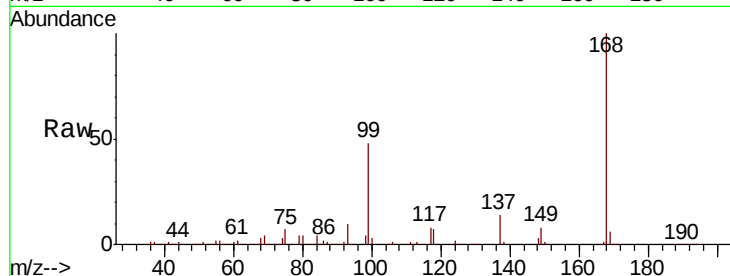




#36
 1,1-Dichloropropene
 Concen: 5.308 ug/l
 RT: 6.40 min Scan# 496
 Delta R.T. -0.12 min
 Lab File: VD060639.D
 Acq: 19 Dec 2018 14:39

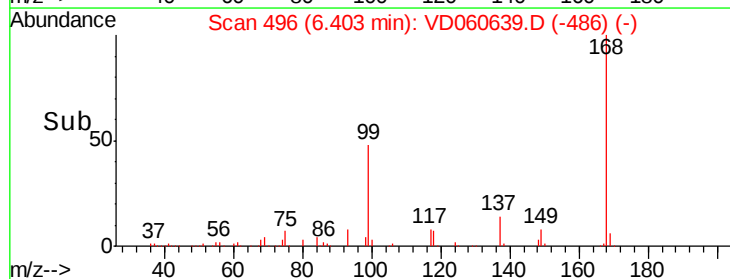
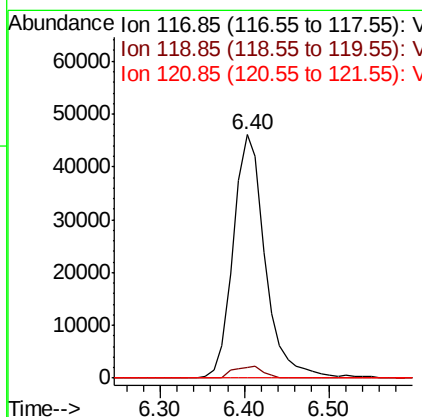
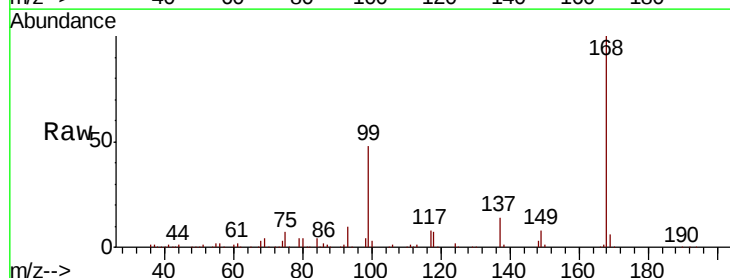
Instrument :
 MSVOA_D
 ClientSampleID :

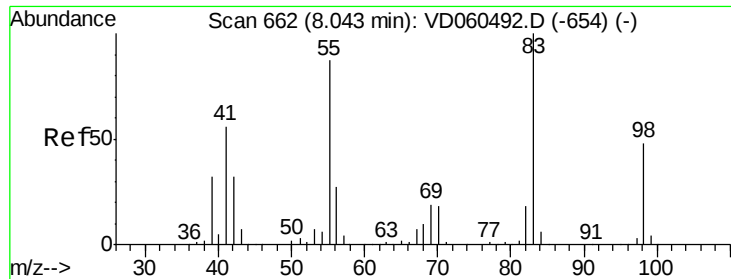
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.0	18.3	54.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.182 ug/l
 RT: 6.40 min Scan# 496
 Delta R.T. -0.10 min
 Lab File: VD060639.D
 Acq: 19 Dec 2018 14:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.8	115.2#
121	0.0	24.4	36.6#

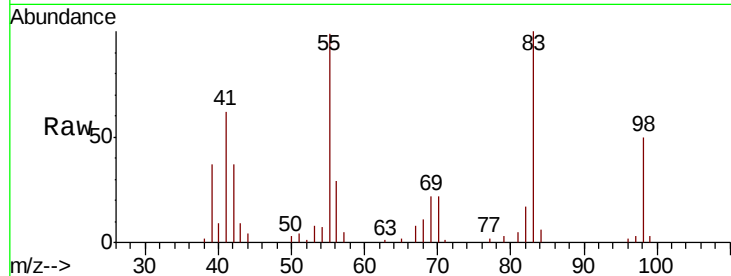




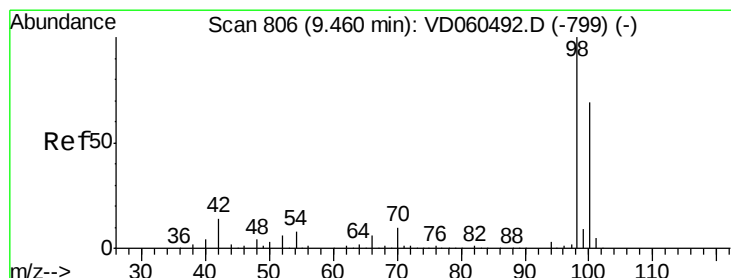
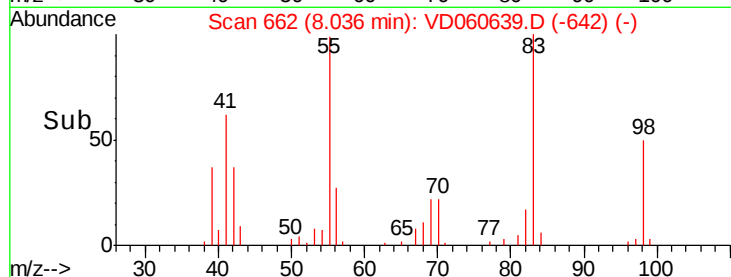
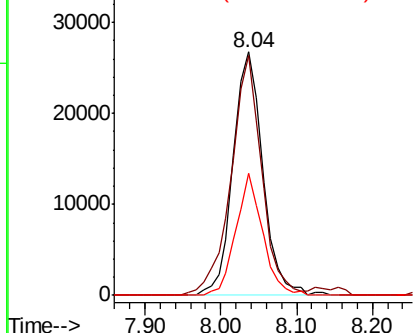
#39
Methvlcvclohexane
Concen: 2.908 ug/l
RT: 8.04 min Scan# 662
Delta R.T. -0.01 min
Lab File: VD060639.D
Acq: 19 Dec 2018 14:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 83 Resp: 72710
Ion Ratio Lower Upper
83 100
55 98.7 69.8 104.8
98 49.9 38.4 57.6

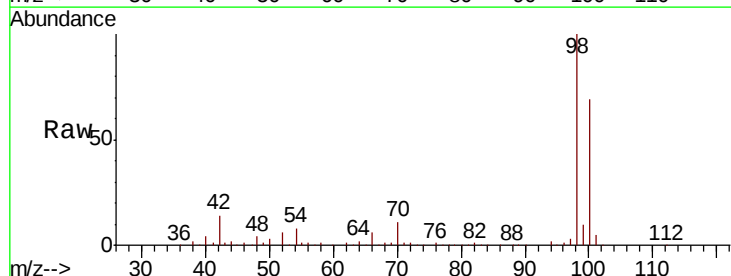


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

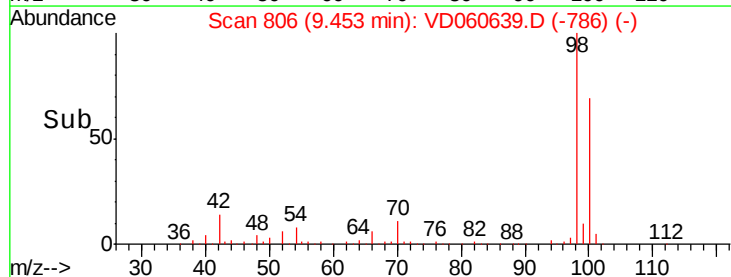
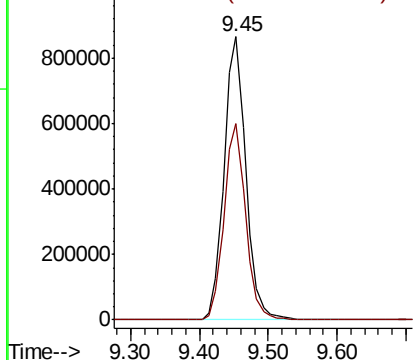


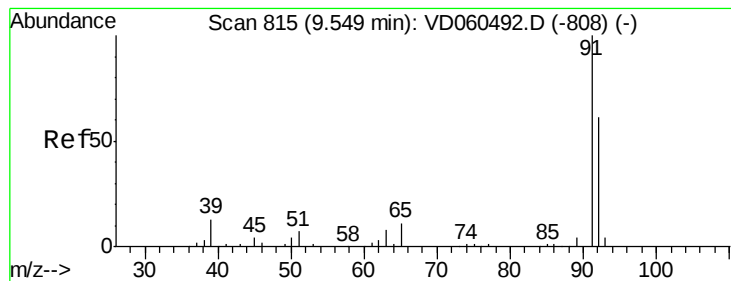
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060639.D
Acq: 19 Dec 2018 14:39

Tgt Ion: 98 Resp: 1891507
Ion Ratio Lower Upper
98 100
100 69.2 55.7 83.5



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





#52

Toluene

Concen: 1.644 ug/l

RT: 9.54 min Scan# 815

Delta R.T. -0.01 min

Lab File: VD060639.D

Acq: 19 Dec 2018 14:39

Instrument :

MSVOA_D

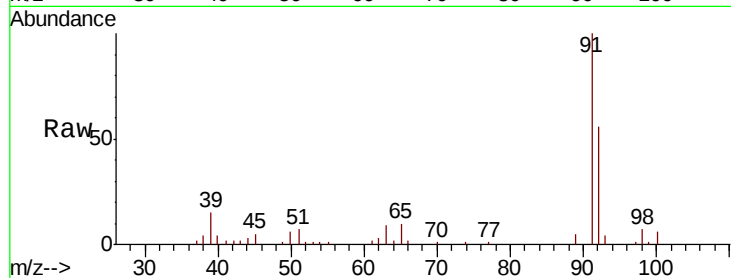
ClientSampleId :

Tot Ion: 92 Resp: 57614

Ion Ratio Lower Upper

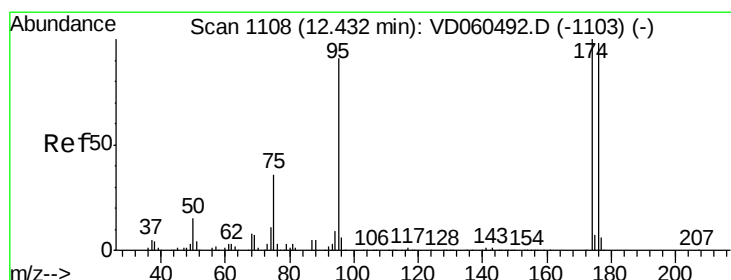
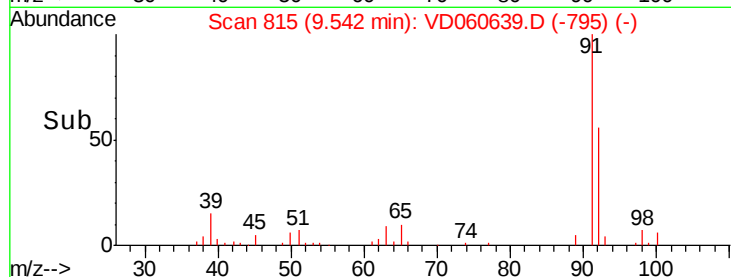
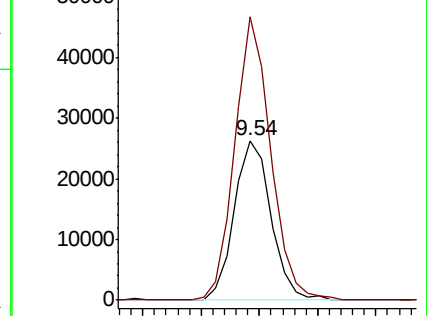
92 100

91 177.5 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060639.D

Acq: 19 Dec 2018 14:39

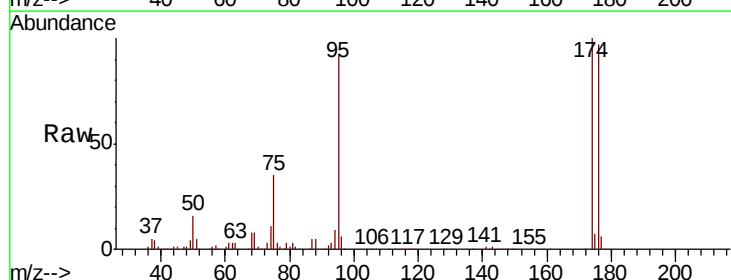
Tgt Ion: 95 Resp: 615331

Ion Ratio Lower Upper

95 100

174 109.1 0.0 219.4

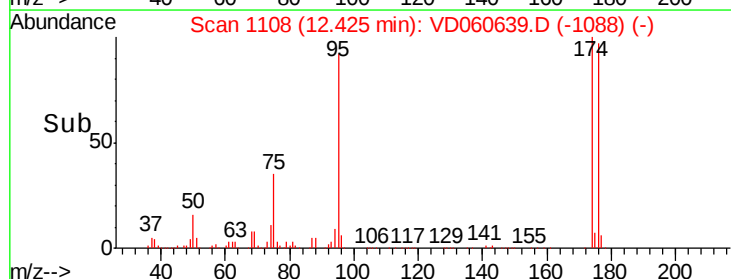
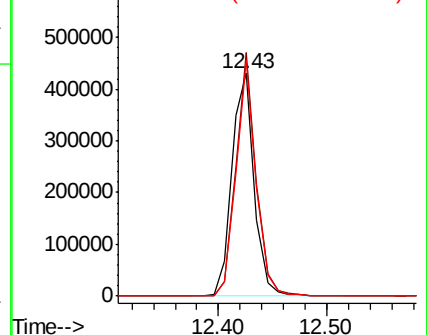
176 105.5 0.0 214.6

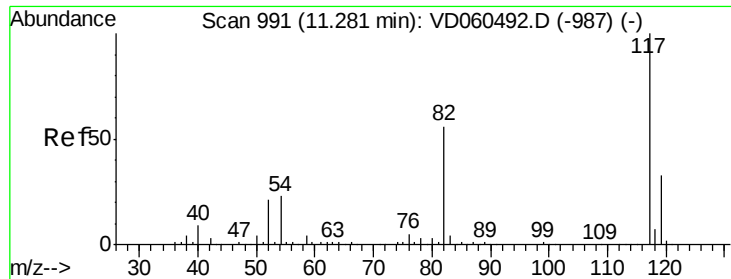


Abundance Ion 95.00 (94.70 to 95.70): VDC

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: 11.28 min Scan# 992

Delta R.T. 0.00 min

Lab File: VD060639.D

Acq: 19 Dec 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

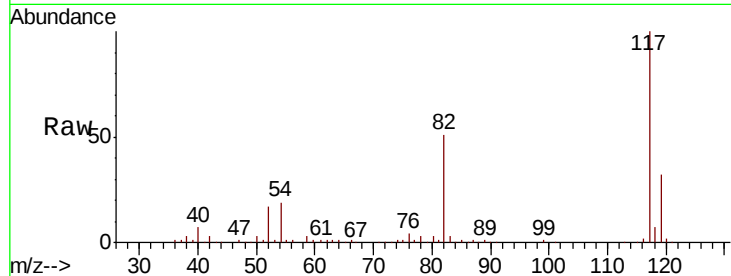
Tot Ion:117 Resp: 1714298

Ion Ratio Lower Upper

117 100

82 51.4 45.2 67.8

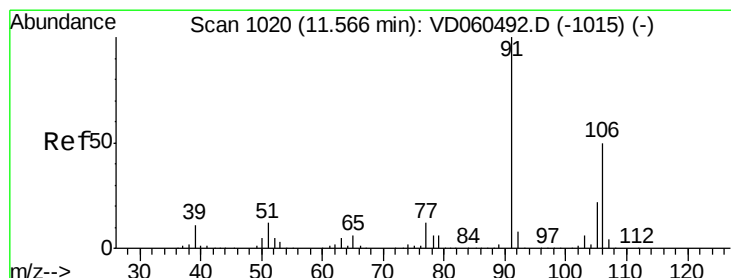
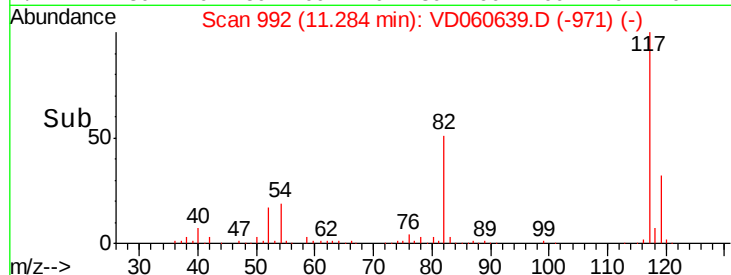
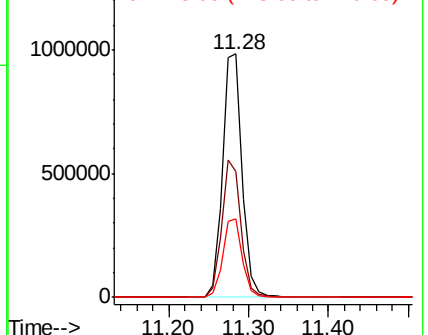
119 32.4 26.1 39.1



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



#68

m/p-Xylenes

Concen: 1.905 ug/l

RT: 11.56 min Scan# 1020

Delta R.T. -0.01 min

Lab File: VD060639.D

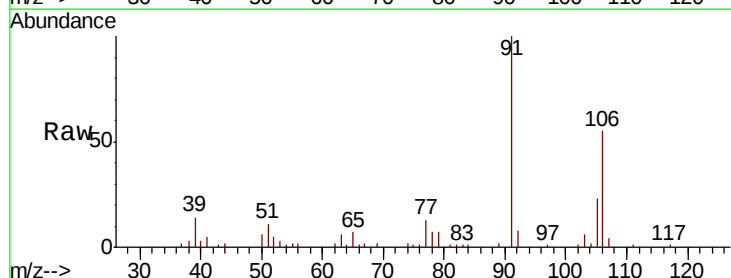
Acq: 19 Dec 2018 14:39

Tgt Ion:106 Resp: 43590

Ion Ratio Lower Upper

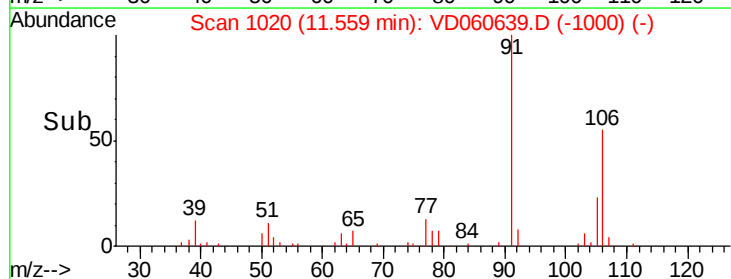
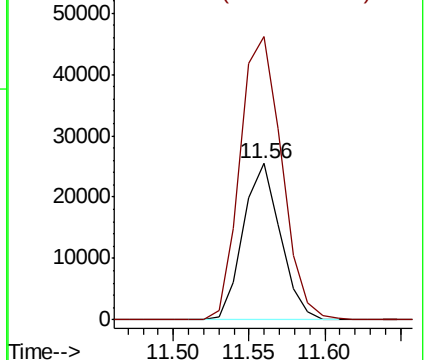
106 100

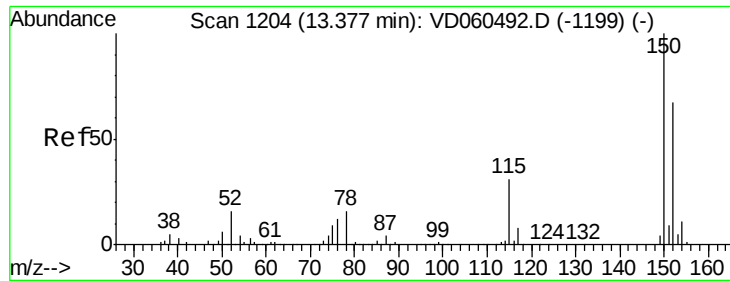
91 180.9 160.5 240.7



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VD060639.D

Acq: 19 Dec 2018 14:39

Instrument :

MSVOA_D

ClientSampleId :

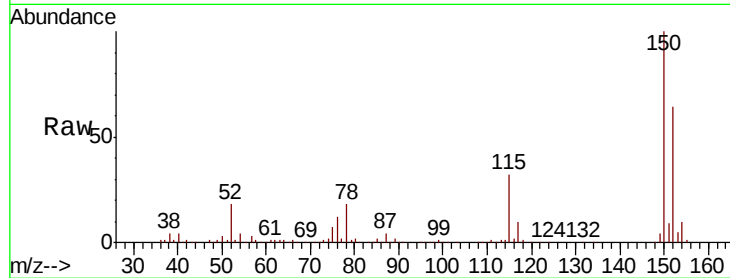
Tot Ion:152 Resp: 633369

Ion Ratio Lower Upper

152 100

115 49.6 24.6 74.0

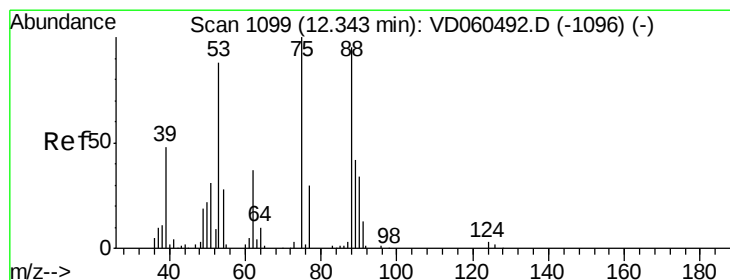
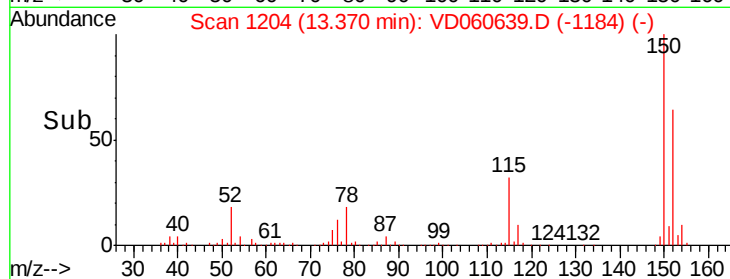
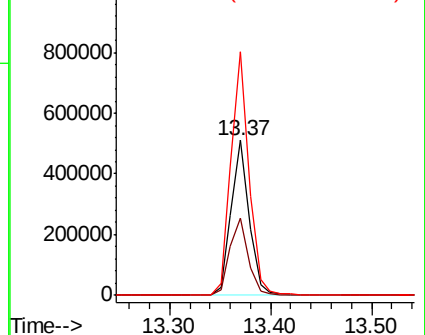
150 157.2 0.0 309.0



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: 125.200 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060639.D

Acq: 19 Dec 2018 14:39

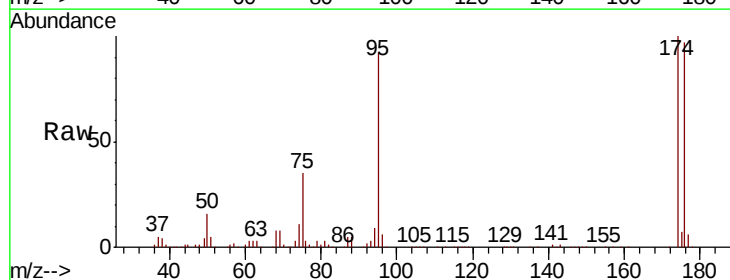
Tgt Ion: 75 Resp: 250593

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

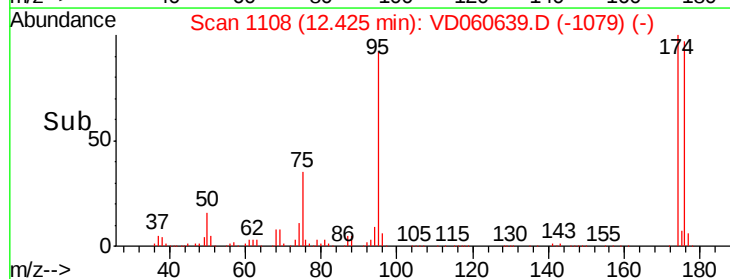
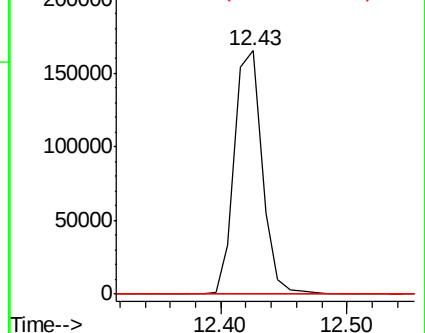
89 0.0 33.6 50.4#

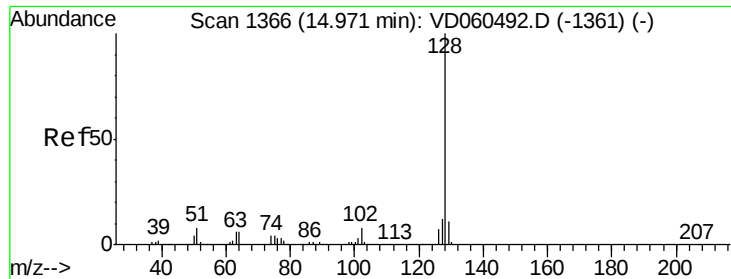


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

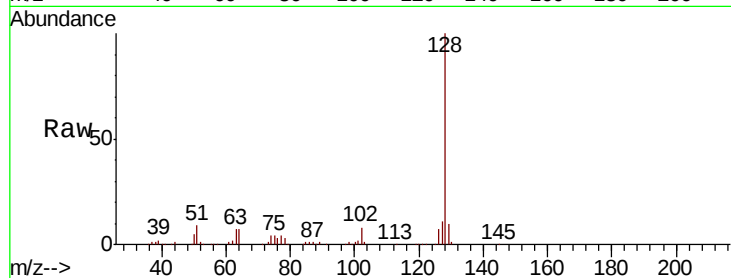




#95
 Naphthalene
 Concen: 18.704 ug/l
 RT: 14.96 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VD060639.D
 Acq: 19 Dec 2018 14:39

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	9.8	14.8
129	10.0	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

