

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122118\
 Data File : VD060689.D
 Acq On : 21 Dec 2018 17:43
 Operator : VA/AP
 Sample : J6188-03
 Misc : 6.08g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-01-122018

Quant Time: Dec 21 22:28:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.44	168	30945	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.47	114	48923	50.00	ug/l	0.03
63) Chlorobenzene-d5	11.31	117	49013	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.40	152	20668	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.81	65	20390	95.35	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	190.70%	
35) Dibromofluoromethane	6.35	113	18736	52.32	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	104.64%	
50) Toluene-d8	9.49	98	34938	32.70	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	65.40%	
62) 4-Bromofluorobenzene	12.44	95	12759	34.10	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	68.20%	

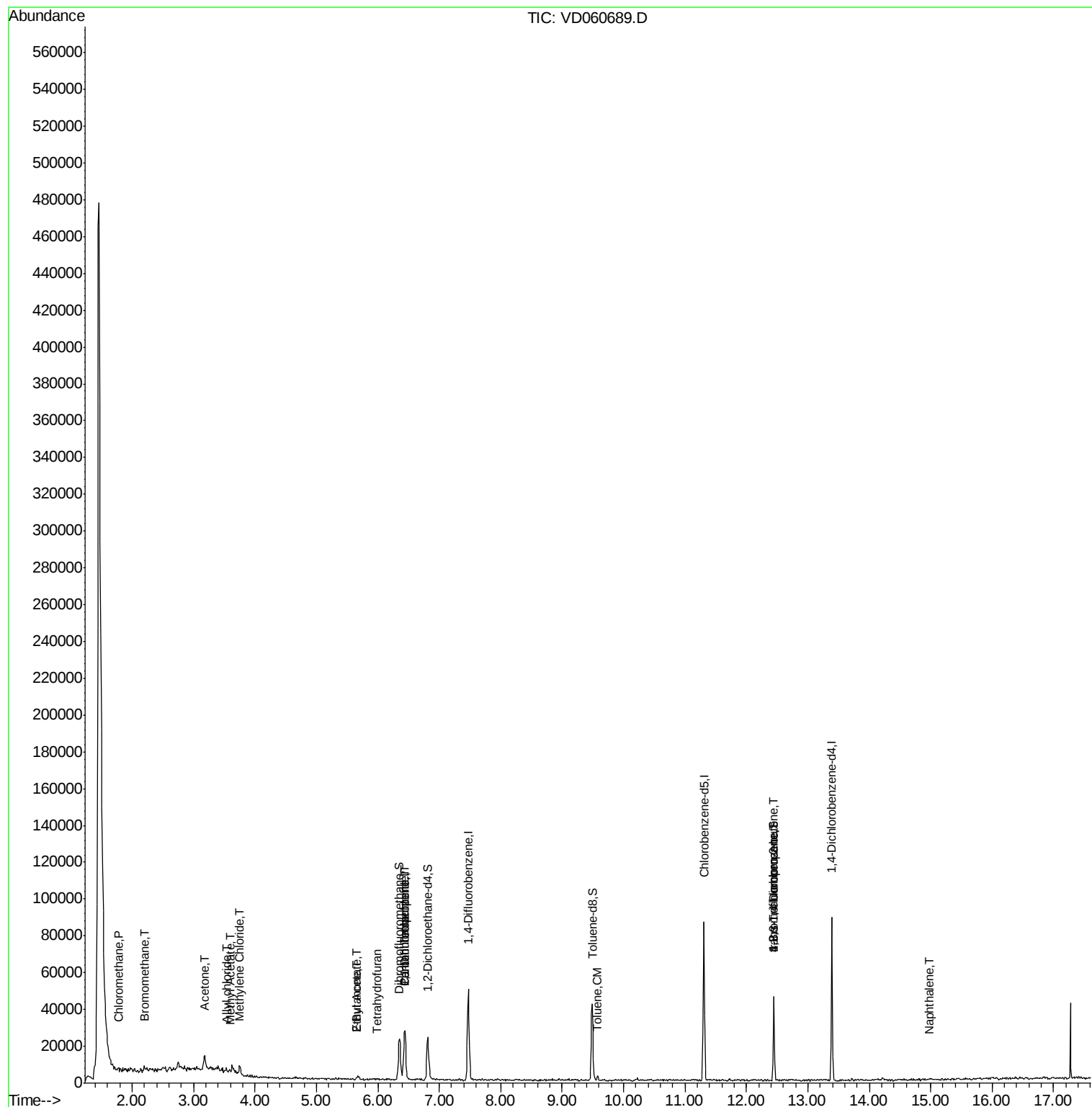
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.78	50	1507	4.141	ug/l #	77
5) Bromomethane	2.19	94	2620	40.485	ug/l #	51
14) Allyl chloride	3.54	41	479	1.524	ug/l #	86
16) Acetone	3.17	43	15878	425.157	ug/l	97
18) Methyl Acetate	3.60	43	784	8.471	ug/l #	63
20) Methylene Chloride	3.75	84	2480	6.394	ug/l #	62
25) 2-Butanone	5.65	43	213	2.980	ug/l #	61
29) Tetrahydrofuran	5.99	42	416	10.268	ug/l #	40
36) 1,1-Dichloropropene	6.44	75	1300	2.581	ug/l #	40
37) Ethyl Acetate	5.65	43	213	1.011	ug/l #	69
38) Carbon Tetrachloride	6.44	117	2178	4.901	ug/l #	12
52) Toluene	9.58	92	1092	1.339	ug/l #	57
76) 1,2,3-Trichloropropane	12.44	75	6000	25.499	ug/l #	41
81) trans-1,4-Dichloro-2-buten	12.44	75	6001	92.295	ug/l #	13
95) Naphthalene	14.98	128	579	1.070	ug/l #	70

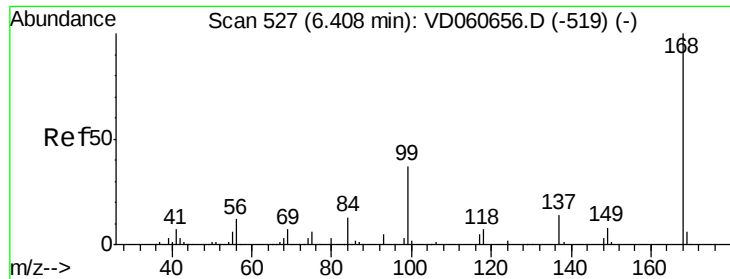
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.44 min Scan# 530

Delta R.T. 0.03 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

Instrument :

MSVOA_D

ClientSampleId :

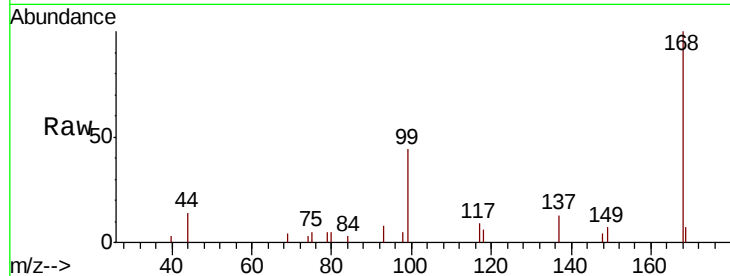
BU-01-122018

Tot Ion:168 Resp: 30945

Ion Ratio Lower Upper

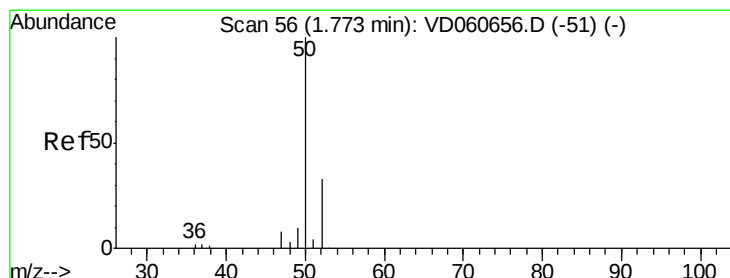
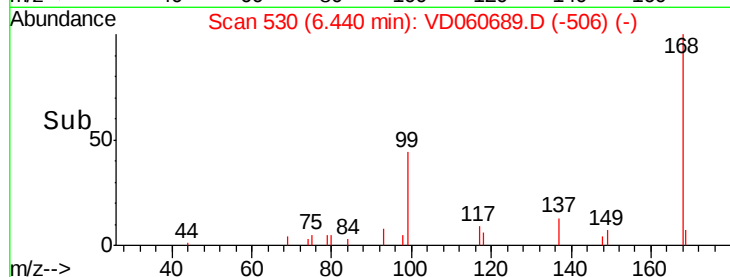
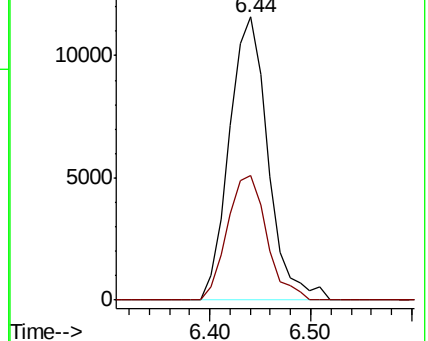
168 100

99 44.2 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 4.141 ug/l

RT: 1.78 min Scan# 56

Delta R.T. 0.00 min

Lab File: VD060689.D

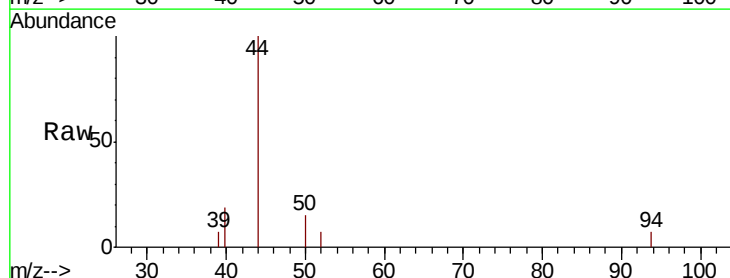
Acq: 21 Dec 2018 17:43

Tgt Ion: 50 Resp: 1507

Ion Ratio Lower Upper

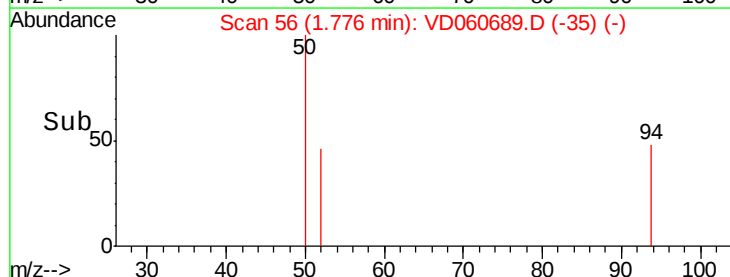
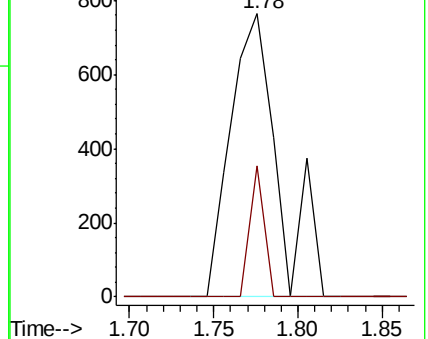
50 100

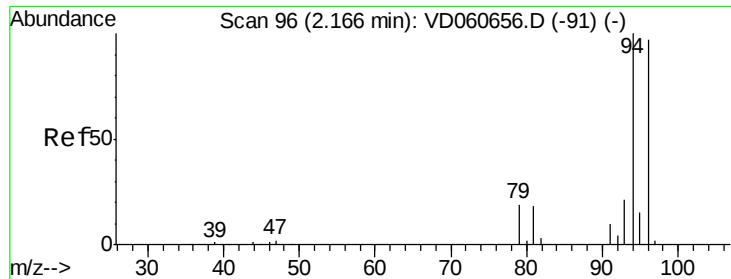
52 46.5 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 40.485 ug/l

RT: 2.19 min Scan# 98

Delta R.T. 0.02 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

Instrument :

MSVOA_D

ClientSampleId :

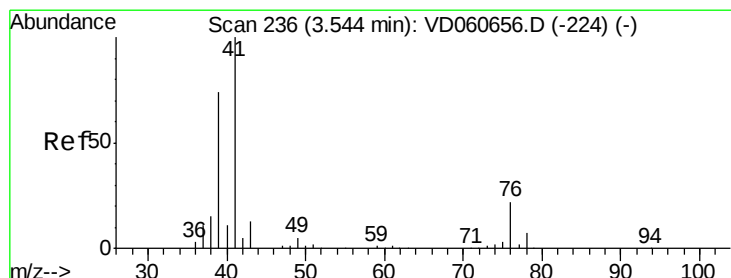
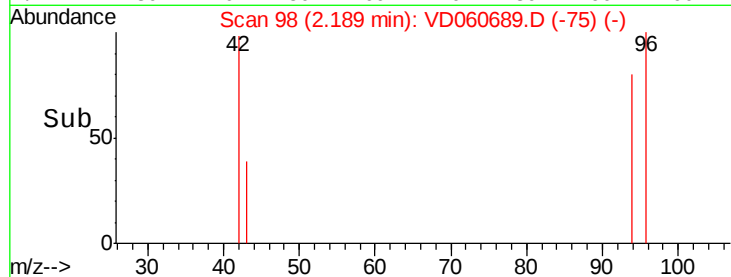
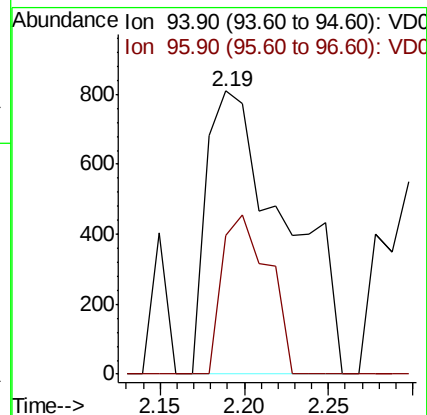
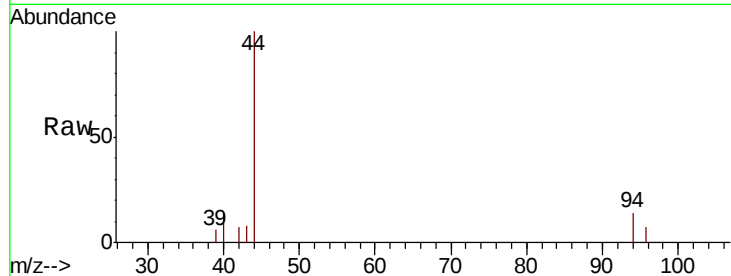
BU-01-122018

Tot Ion: 94 Resp: 2620

Ion Ratio Lower Upper

94 100

96 48.9 77.2 115.8#



#14

Allyl chloride

Concen: 1.524 ug/l

RT: 3.54 min Scan# 235

Delta R.T. -0.01 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

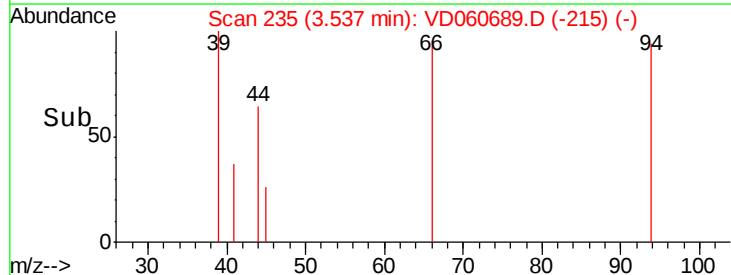
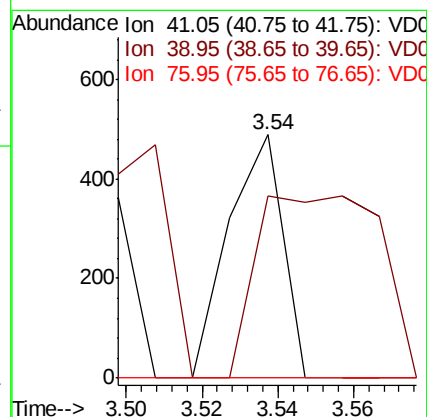
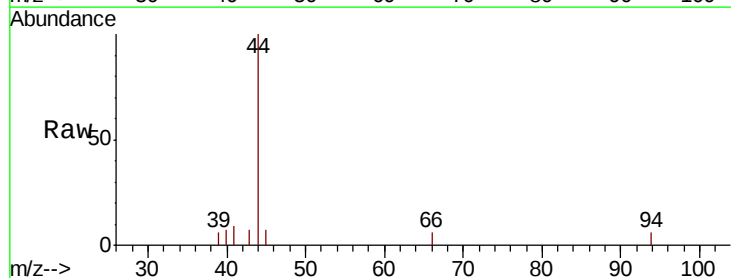
Tgt Ion: 41 Resp: 479

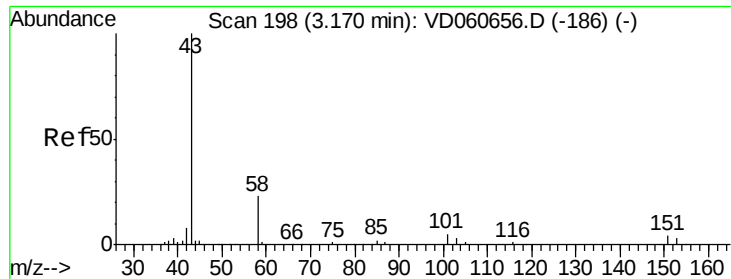
Ion Ratio Lower Upper

41 100

39 74.6 59.6 89.4

76 0.0 21.8 32.6#





#16

Acetone

Concen: 425.157 ug/l

RT: 3.17 min Scan# 198

Delta R.T. 0.00 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

Instrument :

MSVOA_D

ClientSampleId :

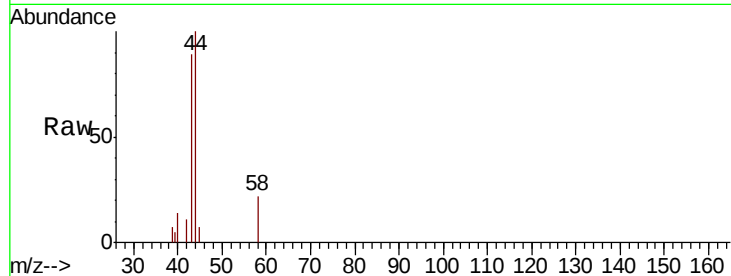
BU-01-122018

Tot Ion: 43 Resp: 15878

Ion Ratio Lower Upper

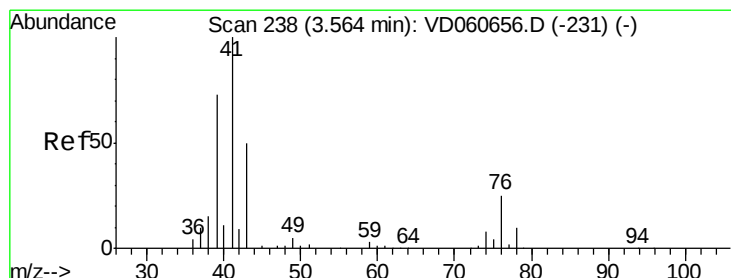
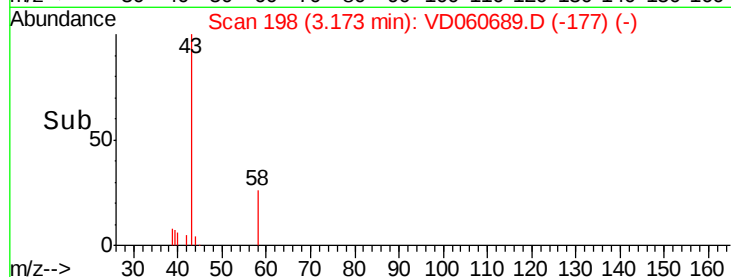
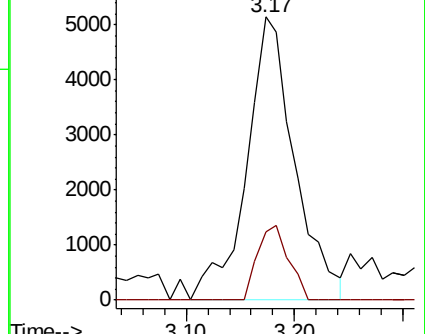
43 100

58 24.1 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 8.471 ug/l

RT: 3.60 min Scan# 241

Delta R.T. 0.03 min

Lab File: VD060689.D

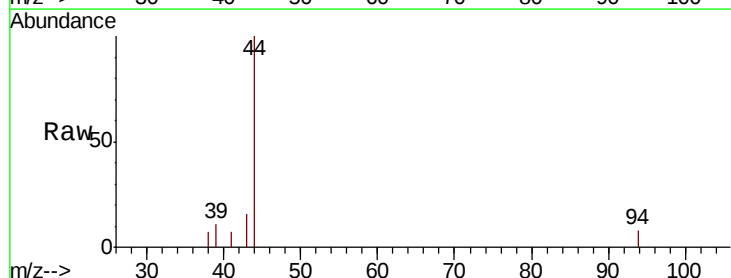
Acq: 21 Dec 2018 17:43

Tgt Ion: 43 Resp: 784

Ion Ratio Lower Upper

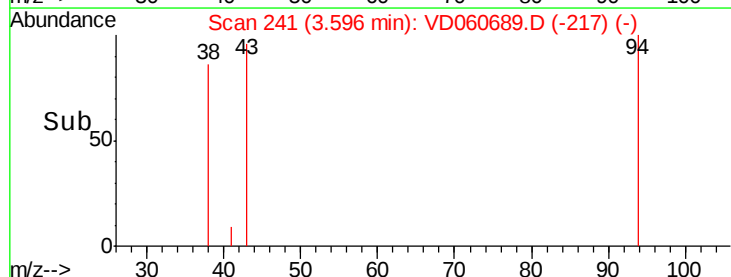
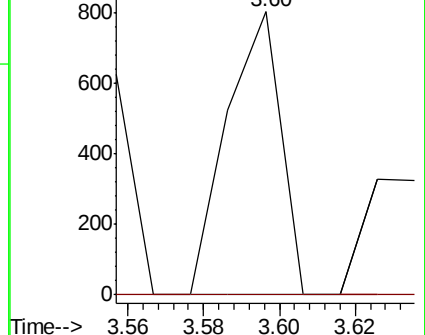
43 100

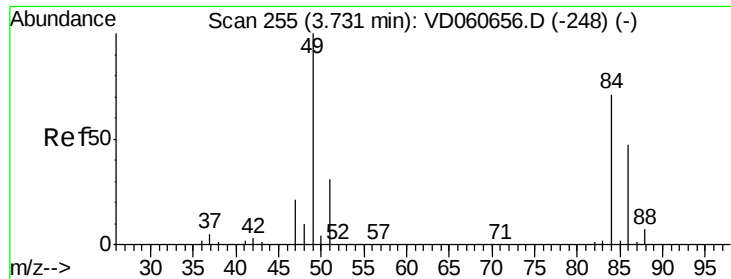
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

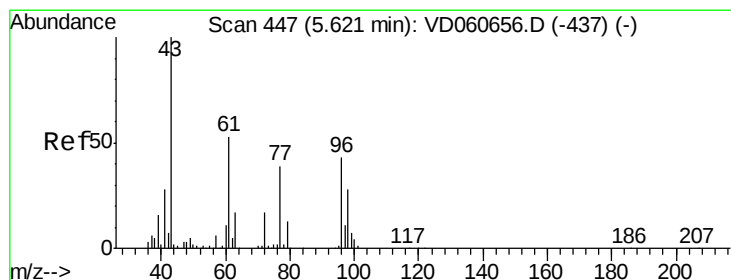
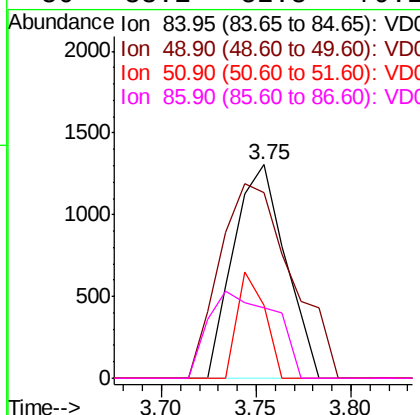
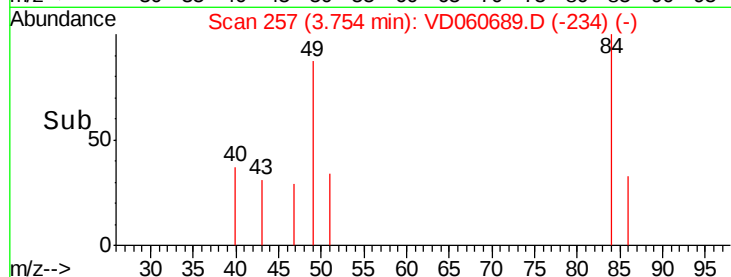
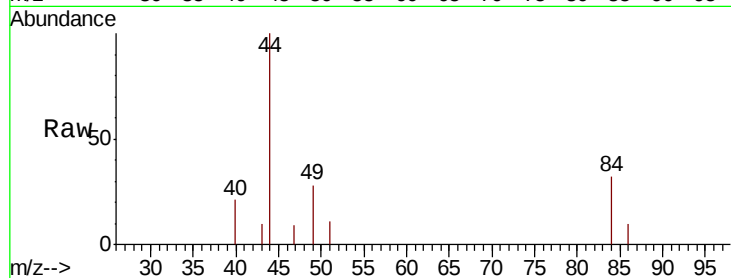




#20
Methvlene Chloride
Concen: 6.394 ug/l
RT: 3.75 min Scan# 257
Delta R.T. 0.02 min
Lab File: VD060689.D
Acq: 21 Dec 2018 17:43

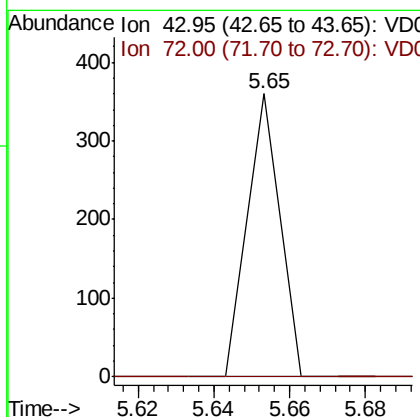
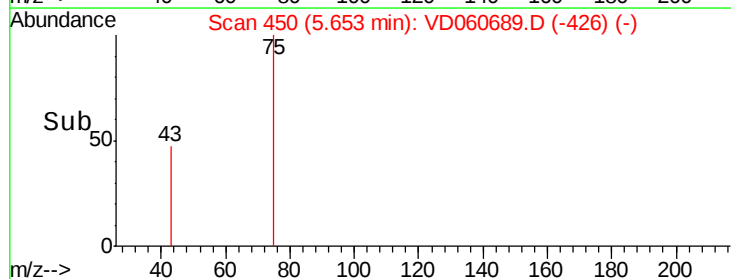
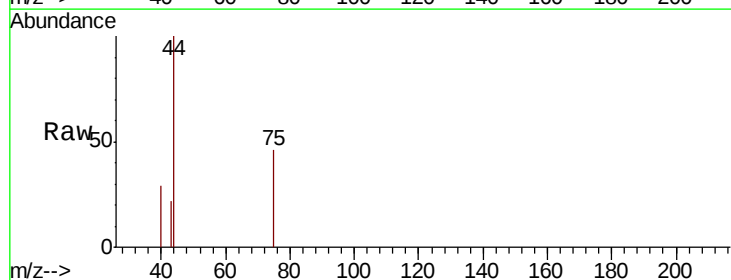
Instrument :
MSVOA_D
ClientSampleId :
BU-01-122018

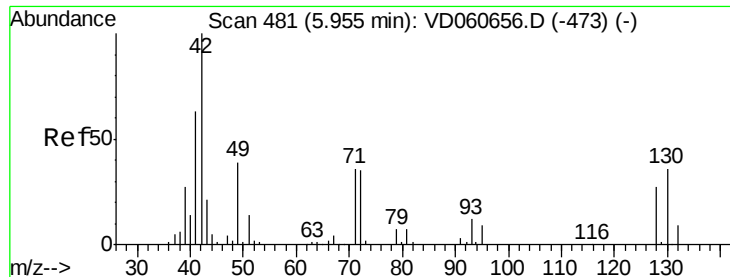
Tot Ion: 84 Resp: 2480
Ion Ratio Lower Upper
84 100
49 87.2 113.6 170.4#
51 34.4 34.7 52.1#
86 33.1 52.8 79.2#



#25
2-Butanone
Concen: 2.980 ug/l
RT: 5.65 min Scan# 450
Delta R.T. 0.03 min
Lab File: VD060689.D
Acq: 21 Dec 2018 17:43

Tgt Ion: 43 Resp: 213
Ion Ratio Lower Upper
43 100
72 0.0 13.7 20.5#





#29

Tetrahydrofuran

Concen: 10.268 ug/l

RT: 5.99 min Scan# 484

Delta R.T. 0.03 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

Instrument :

MSVOA_D

ClientSampleId :

BU-01-122018

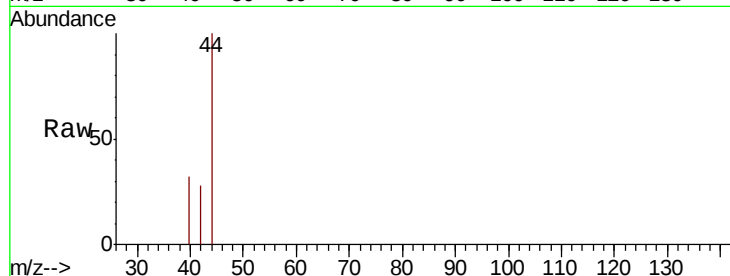
Tot Ion: 42 Resp: 416

Ion Ratio Lower Upper

42 100

72 0.0 28.0 42.0#

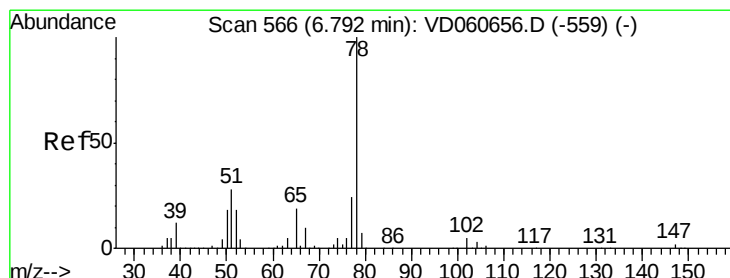
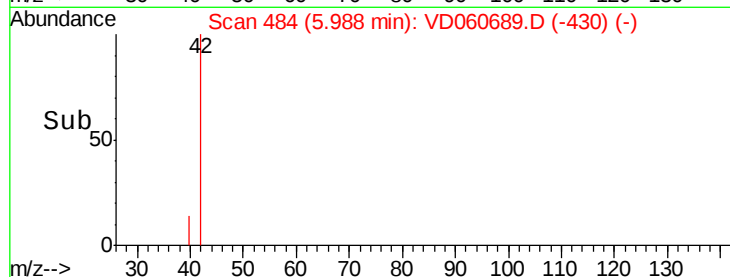
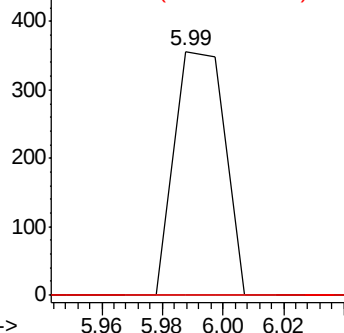
71 0.0 27.0 40.6#



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: 6.81 min Scan# 568

Delta R.T. 0.02 min

Lab File: VD060689.D

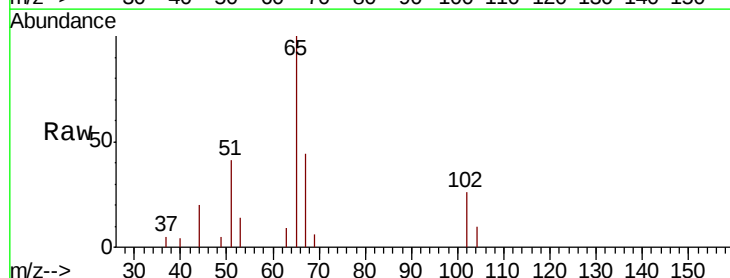
Acq: 21 Dec 2018 17:43

Tgt Ion: 65 Resp: 20390

Ion Ratio Lower Upper

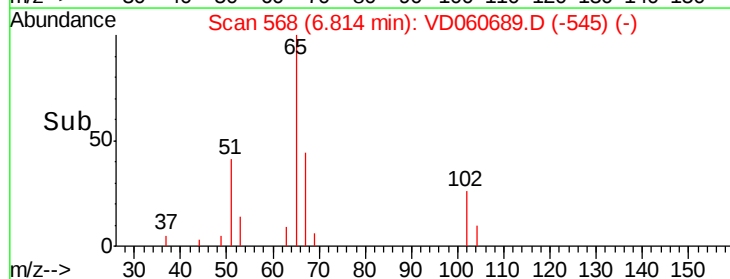
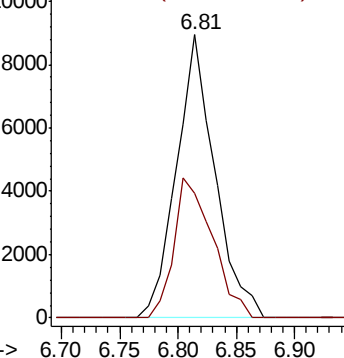
65 100

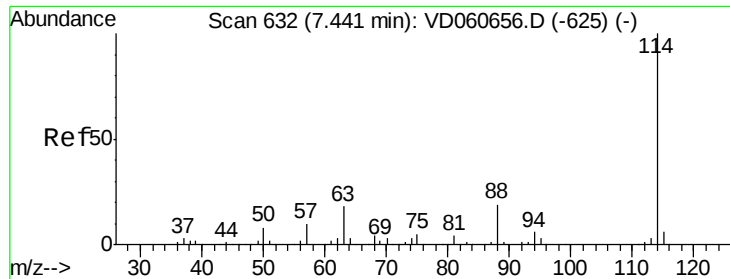
67 44.2 0.0 105.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

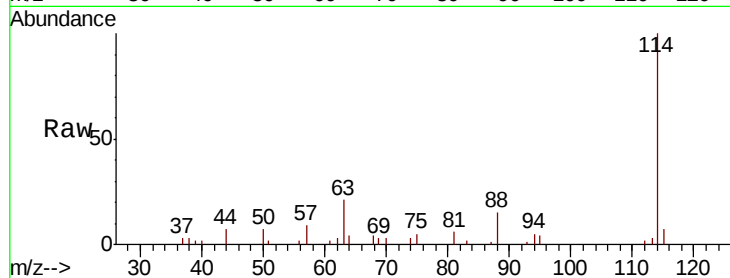




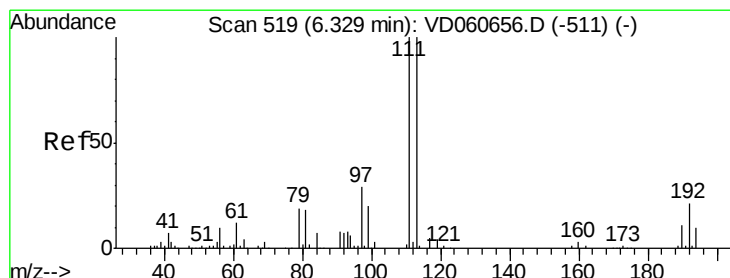
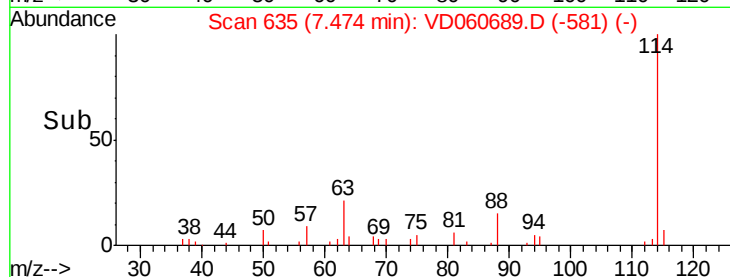
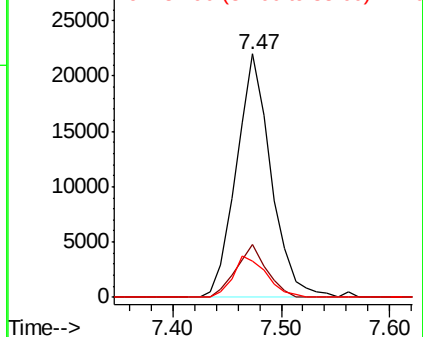
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 7.47 min Scan# 635
Delta R.T. 0.03 min
Lab File: VD060689.D
Acq: 21 Dec 2018 17:43

Instrument :
MSVOA_D
ClientSampleId :
BU-01-122018

Tot Ion:114 Resp: 48923
Ion Ratio Lower Upper
114 100
63 21.5 0.0 36.2
88 15.1 0.0 37.0

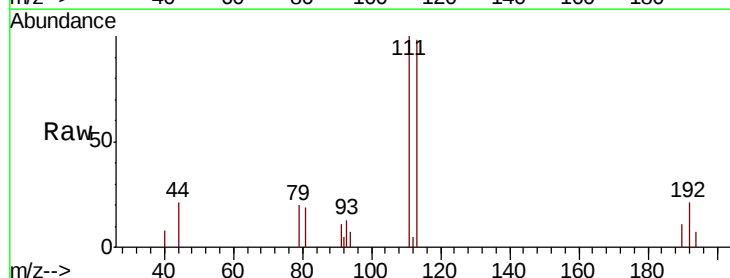


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

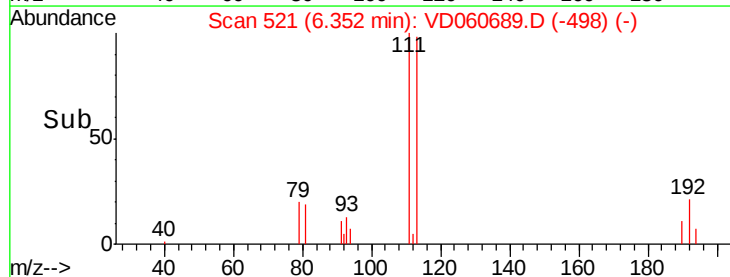
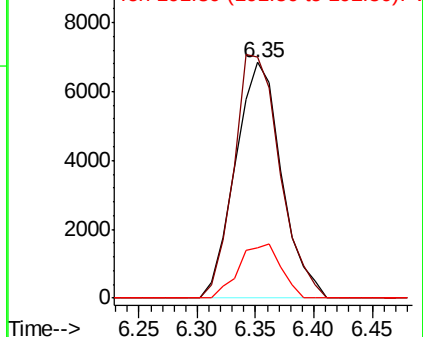


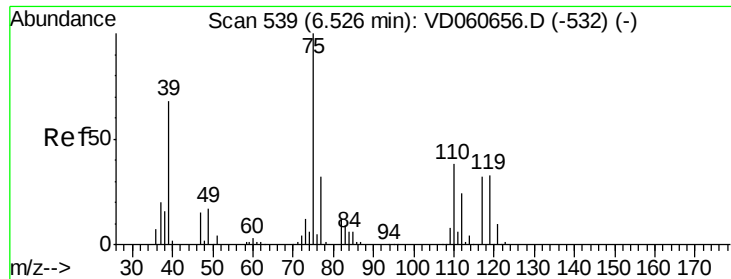
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.35 min Scan# 521
Delta R.T. 0.02 min
Lab File: VD060689.D
Acq: 21 Dec 2018 17:43

Tgt Ion:113 Resp: 18736
Ion Ratio Lower Upper
113 100
111 102.4 80.0 120.0
192 21.3 16.6 25.0



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: 2.581 ug/l

RT: 6.44 min Scan# 530

Delta R.T. -0.09 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

Instrument :

MSVOA_D

ClientSampleId :

BU-01-122018

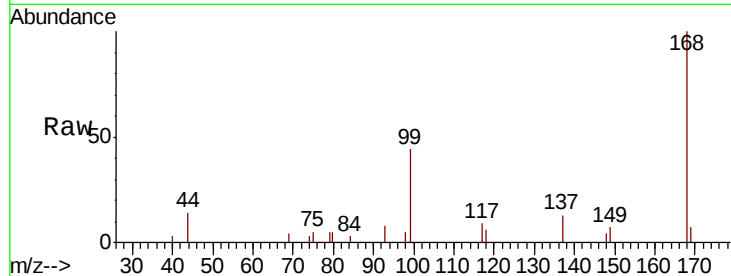
Tot Ion: 75 Resp: 1300

Ion Ratio Lower Upper

75 100

110 0.0 18.9 56.7#

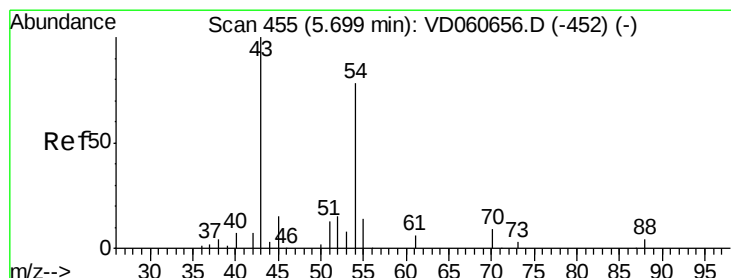
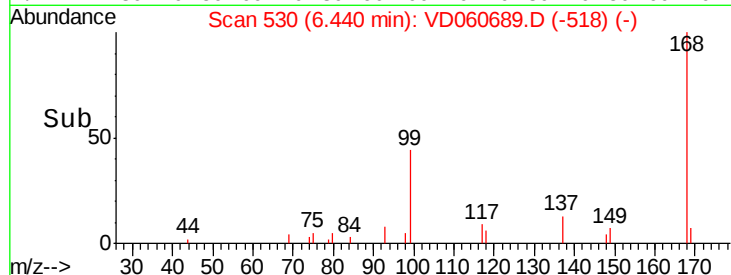
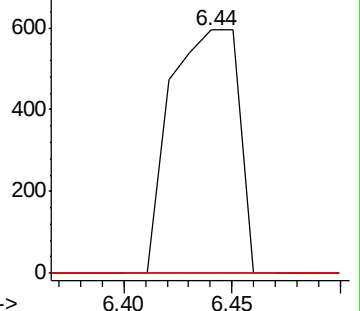
77 0.0 25.4 38.0#



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: 1.011 ug/l

RT: 5.65 min Scan# 450

Delta R.T. -0.05 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

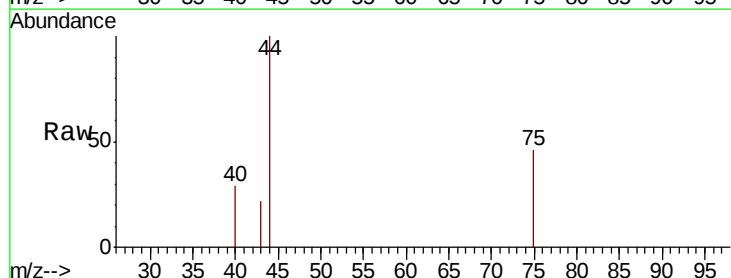
Tgt Ion: 43 Resp: 213

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

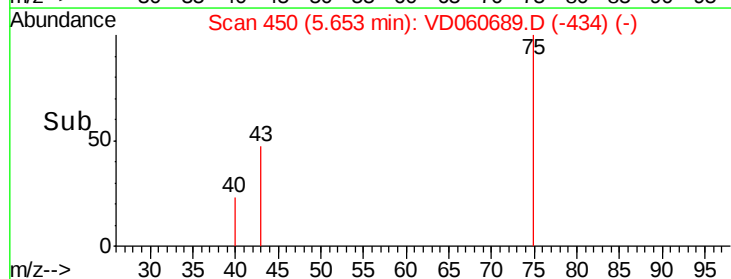
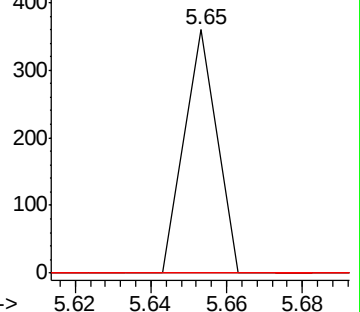
70 0.0 5.8 8.6#

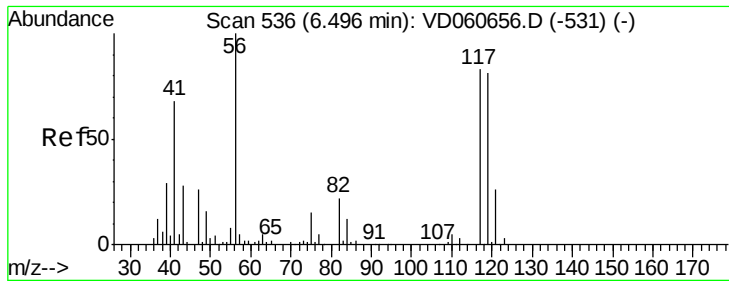


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 4.901 ug/l

RT: 6.44 min Scan# 530

Delta R.T. -0.06 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

Instrument :

MSVOA_D

ClientSampleId :

BU-01-122018

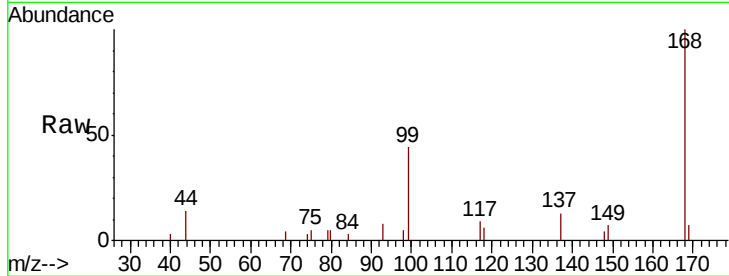
Tot Ion:117 Resp: 2178

Ion Ratio Lower Upper

117 100

119 0.0 77.0 115.4#

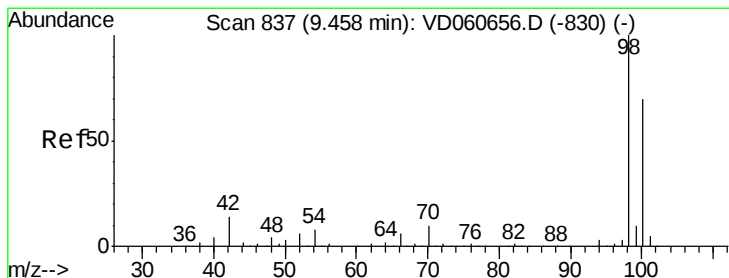
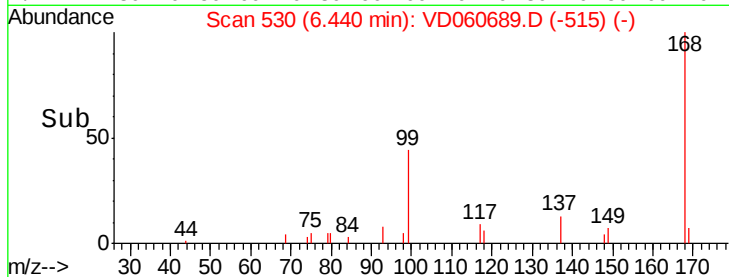
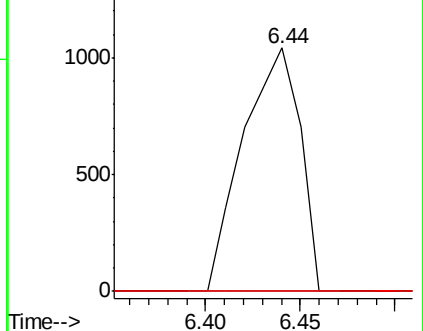
121 0.0 24.7 37.1#



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: 9.49 min Scan# 840

Delta R.T. 0.03 min

Lab File: VD060689.D

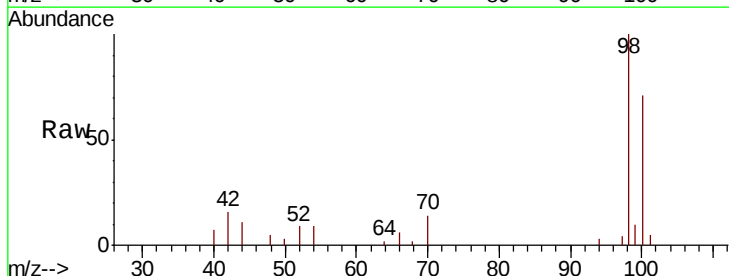
Acq: 21 Dec 2018 17:43

Tgt Ion: 98 Resp: 34938

Ion Ratio Lower Upper

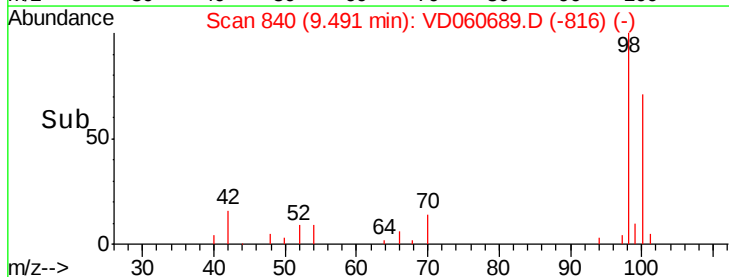
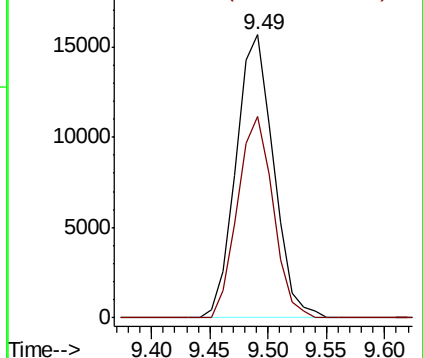
98 100

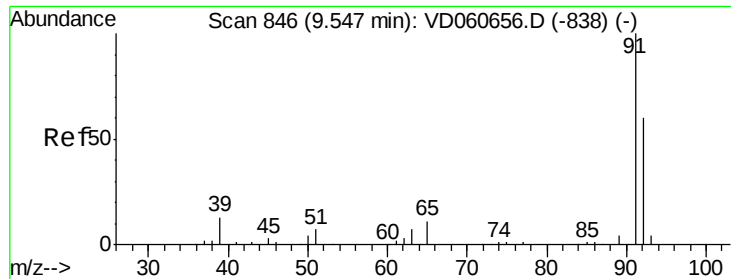
100 71.0 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 1.339 ug/l

RT: 9.58 min Scan# 849

Delta R.T. 0.03 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

Instrument :

MSVOA_D

ClientSampleId :

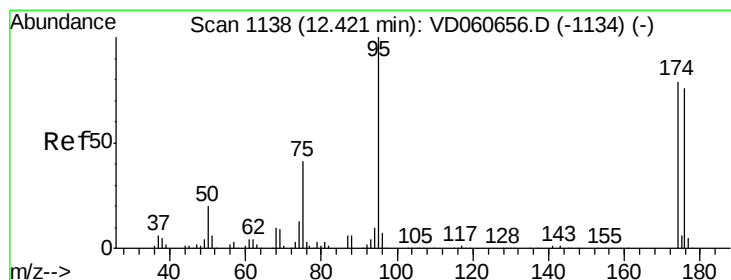
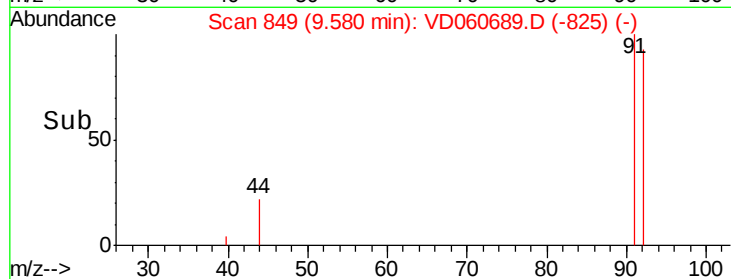
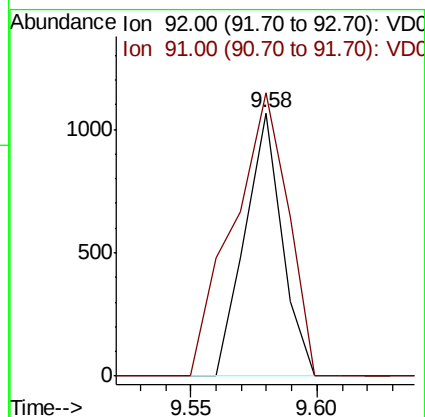
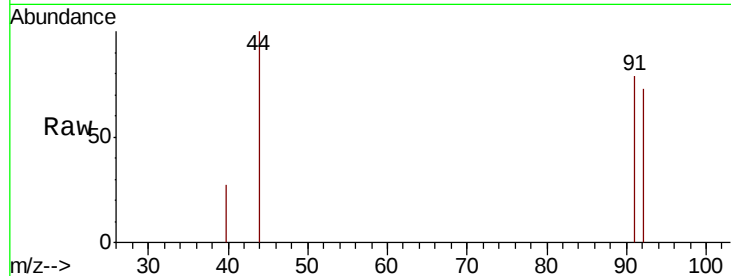
BU-01-122018

Tot Ion: 92 Resp: 1092

Ion Ratio Lower Upper

92 100

91 107.6 132.6 199.0#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.44 min Scan# 1140

Delta R.T. 0.02 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

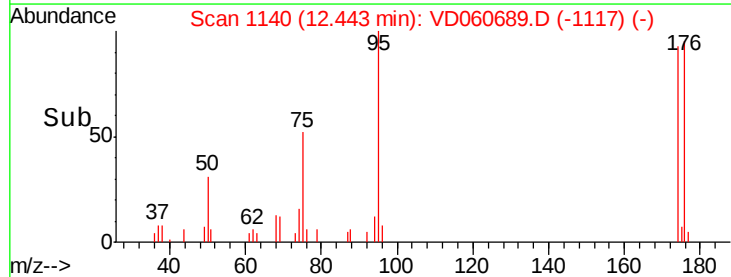
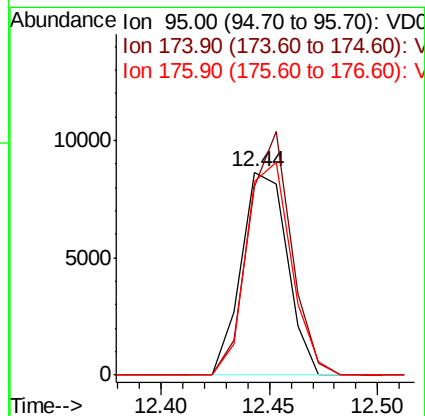
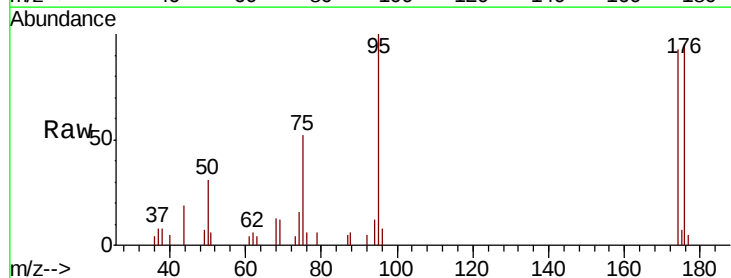
Tgt Ion: 95 Resp: 12759

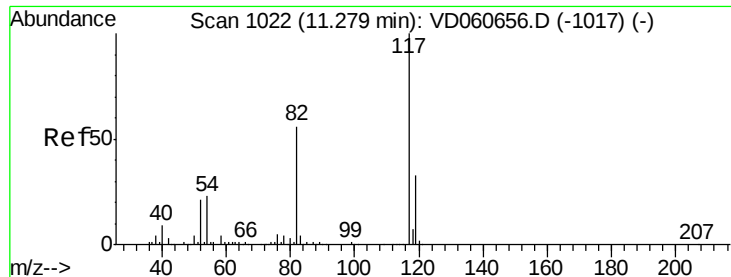
Ion Ratio Lower Upper

95 100

174 92.9 0.0 158.2

176 95.5 0.0 152.4

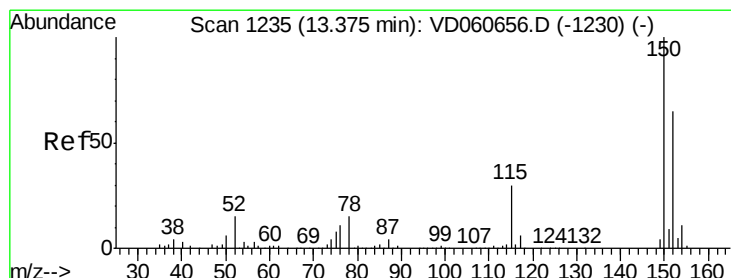
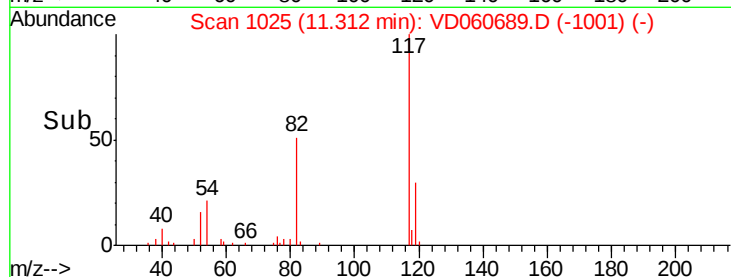
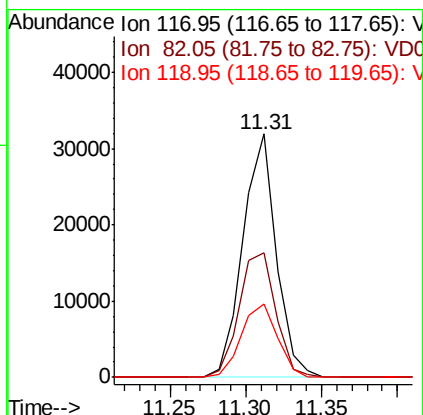
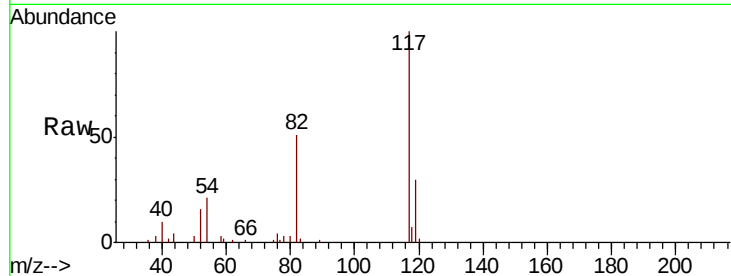




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.31 min Scan# 1025
Delta R.T. 0.03 min
Lab File: VD060689.D
Acq: 21 Dec 2018 17:43

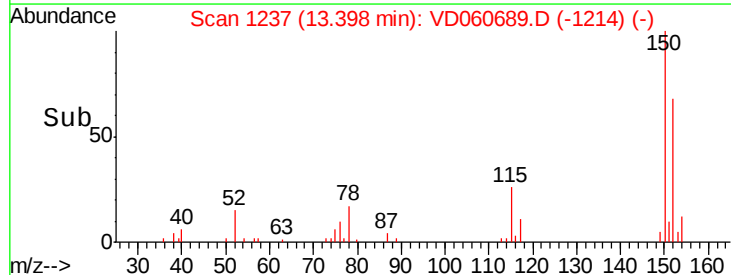
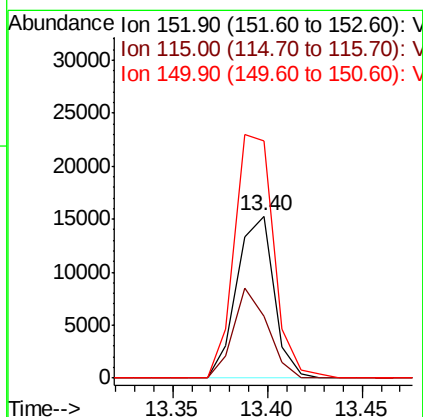
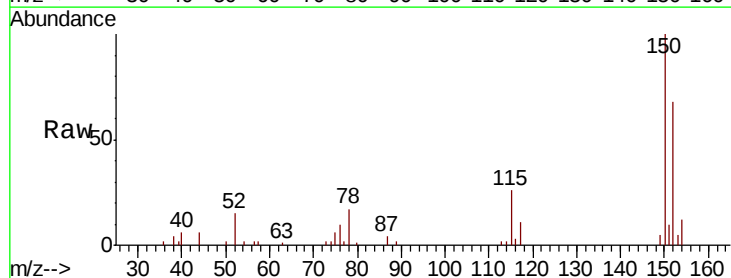
Instrument :
MSVOA_D
ClientSampleId :
BU-01-122018

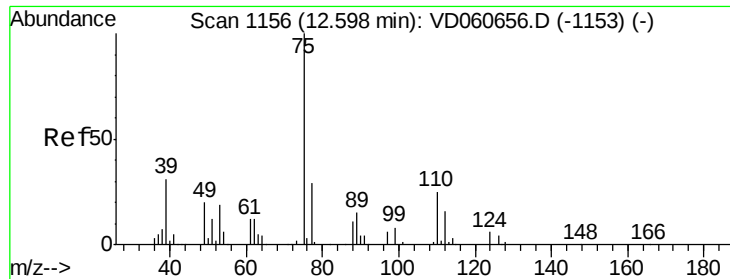
Tot Ion:117 Resp: 49013
Ion Ratio Lower Upper
117 100
82 51.0 44.5 66.7
119 30.3 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.40 min Scan# 1237
Delta R.T. 0.02 min
Lab File: VD060689.D
Acq: 21 Dec 2018 17:43

Tgt Ion:152 Resp: 20668
Ion Ratio Lower Upper
152 100
115 38.1 24.1 72.3
150 146.5 0.0 315.0





#76

1,2,3-Trichloropropane

Concen: 25.499 ug/l

RT: 12.44 min Scan# 1140

Delta R.T. -0.15 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

Instrument :

MSVOA_D

ClientSampleId :

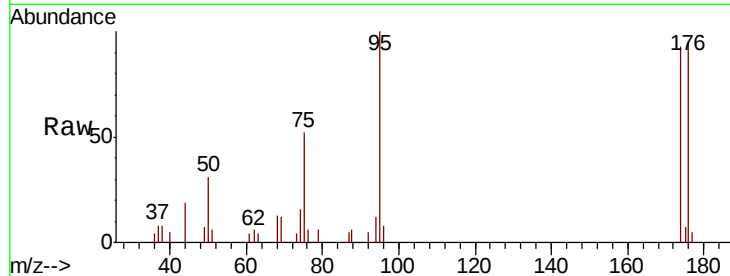
BU-01-122018

Tot Ion: 75 Resp: 6000

Ion Ratio Lower Upper

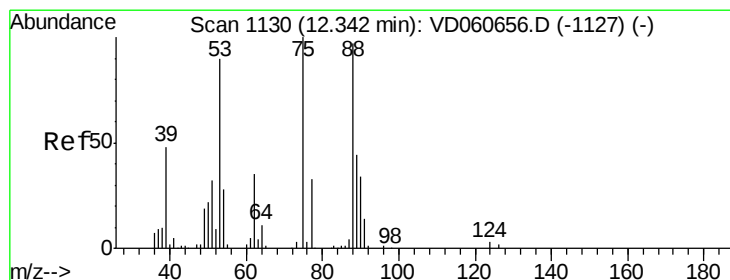
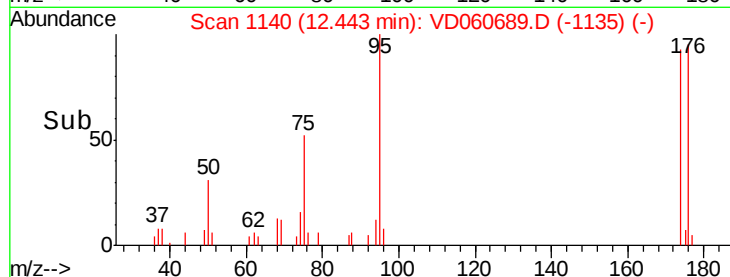
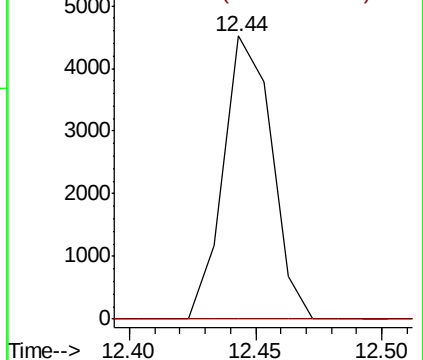
75 100

77 0.0 16.7 50.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 92.295 ug/l

RT: 12.44 min Scan# 1140

Delta R.T. 0.10 min

Lab File: VD060689.D

Acq: 21 Dec 2018 17:43

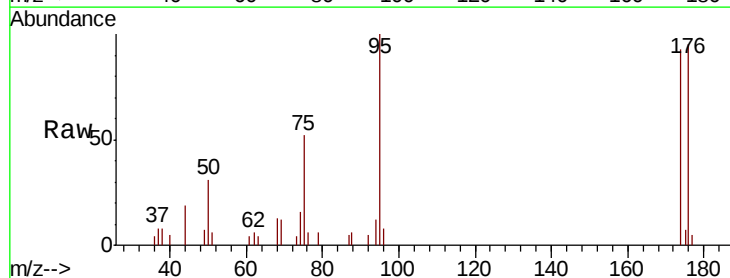
Tgt Ion: 75 Resp: 6001

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

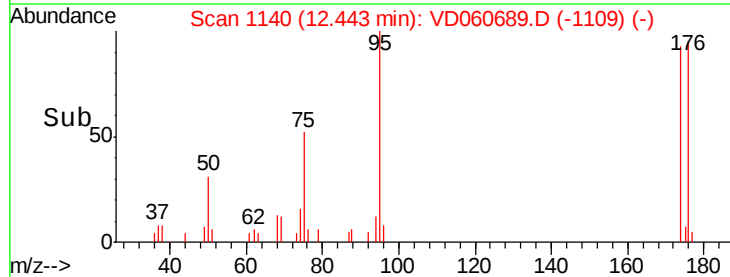
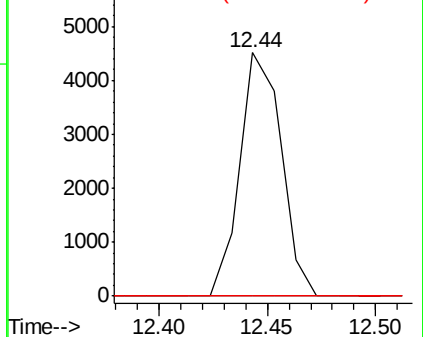
89 0.0 35.1 52.7#

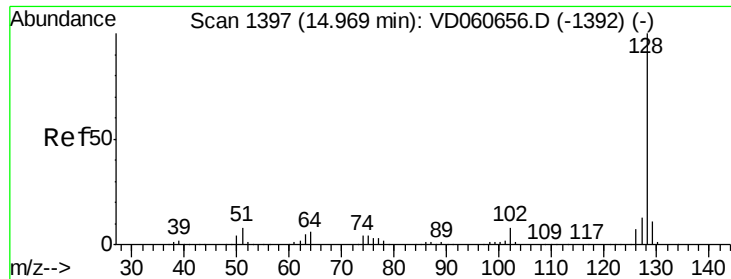


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95
 Naphthalene
 Concen: 1.070 ug/l
 RT: 14.98 min Scan# 1398
 Delta R.T. 0.01 min
 Lab File: VD060689.D
 Acq: 21 Dec 2018 17:43

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-01-122018

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.1	15.1#
129	0.0	8.6	13.0#

