

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121418\
 Data File : VD060584.D
 Acq On : 14 Dec 2018 20:19
 Operator : VA/AP
 Sample : J6403-53
 Misc : 5.53g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 22:25:30 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	6.39	168	1489545	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.43	114	2081016	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.27	117	1549048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	602189	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	579045	54.84	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	109.68%	
35) Dibromofluoromethane	6.31	113	757130	49.53	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	99.06%	
50) Toluene-d8	9.44	98	2081743	47.06	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	94.12%	
62) 4-Bromofluorobenzene	12.42	95	642162	40.57	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	81.14%	

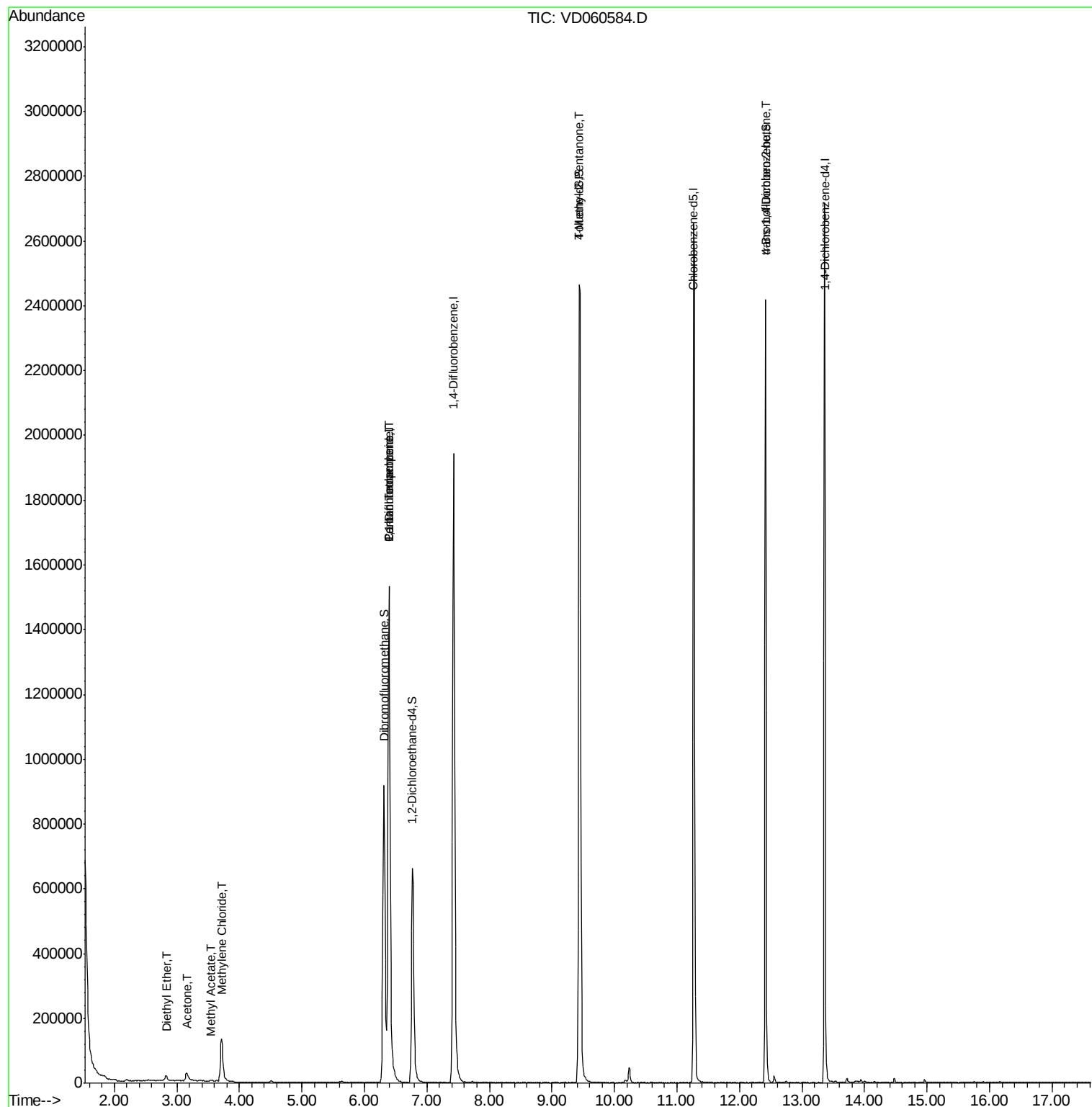
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	812	Below Cal	#	41
8) Diethyl Ether	2.83	74	6017	2.470	ug/l	88
16) Acetone	3.16	43	56436	33.348	ug/l	95
18) Methyl Acetate	3.55	43	8790	2.185	ug/l #	64
20) Methylene Chloride	3.72	84	90247	1.466	ug/l	99
31) Cyclohexane	6.39	56	27755	Below Cal	#	1
36) 1,1-Dichloropropene	6.39	75	105019	5.163	ug/l #	48
38) Carbon Tetrachloride	6.39	117	113514	6.216	ug/l #	15
51) 4-Methyl-2-Pentanone	9.43	43	11465	1.693	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.42	75	258357	135.762	ug/l #	14

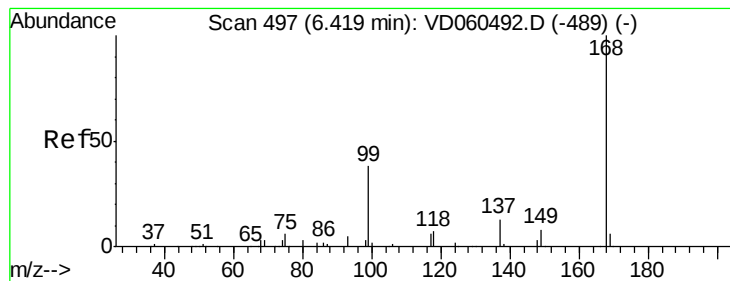
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.03 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

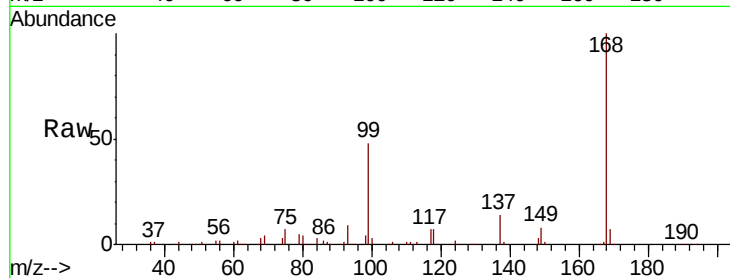
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 1489545

Ion Ratio Lower Upper

168 100

99 48.0 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

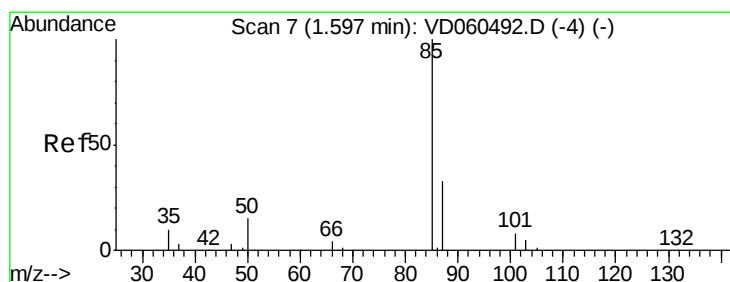
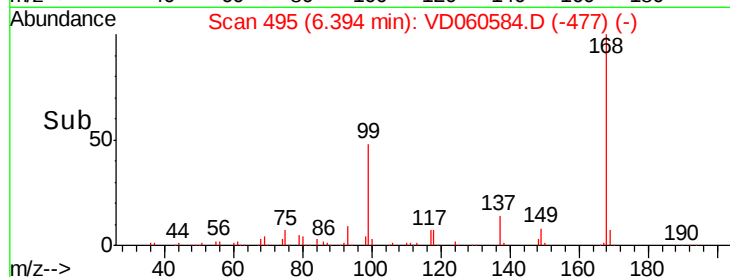
6.39

400000

200000

0

Time--> 6.20 6.30 6.40 6.50 6.60



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.59 min Scan# 7

Delta R.T. -0.01 min

Lab File: VD060584.D

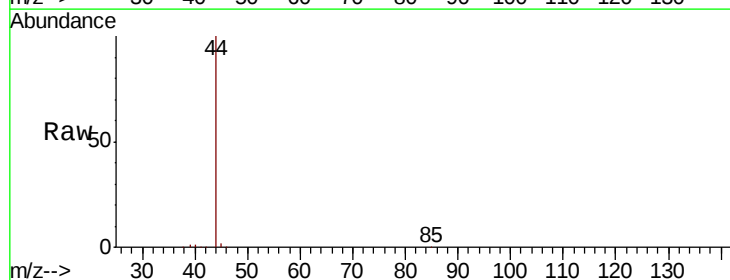
Acq: 14 Dec 2018 20:19

Tgt Ion: 85 Resp: 812

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

1.59

500

400

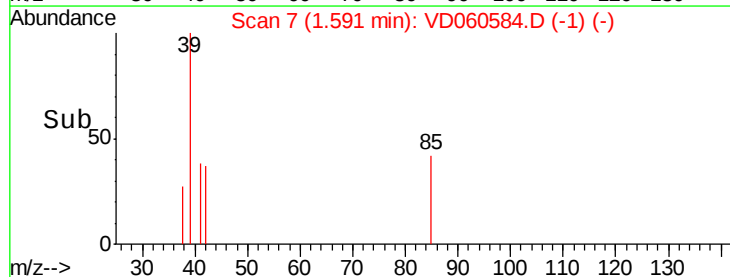
300

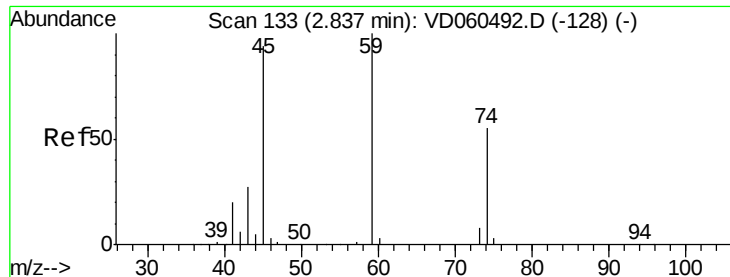
200

100

0

Time--> 1.55 1.60 1.65





#8

Diethyl Ether

Concen: 2.470 ug/l

RT: 2.83 min Scan# 133

Delta R.T. -0.01 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

Instrument :

MSVOA_D

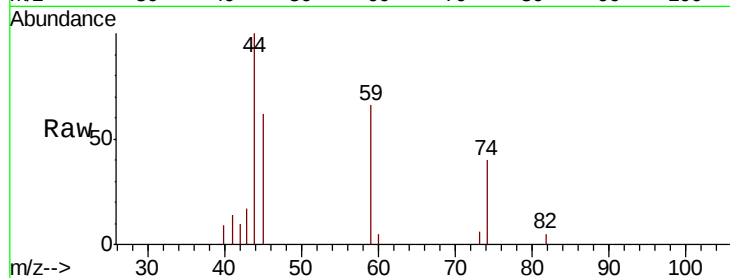
ClientSampleId :

Tot Ion: 74 Resp: 6017

Ion Ratio Lower Upper

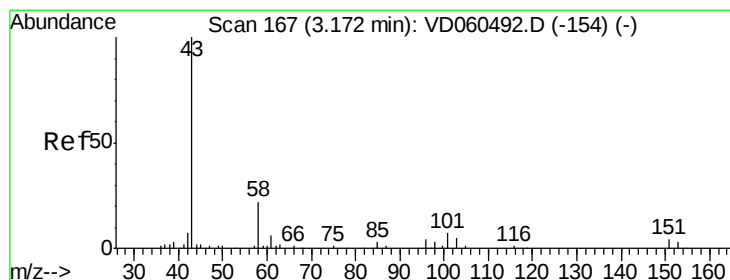
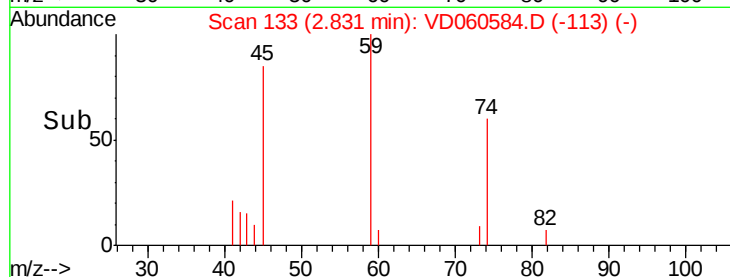
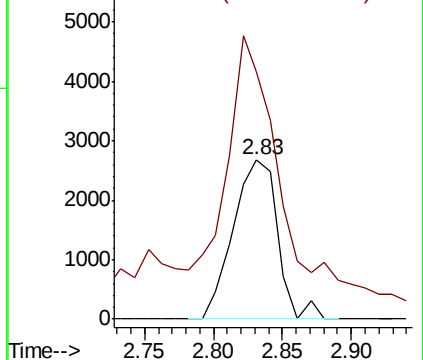
74 100

45 154.9 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 33.348 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.02 min

Lab File: VD060584.D

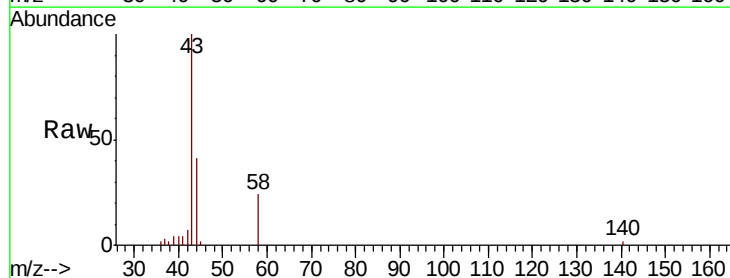
Acq: 14 Dec 2018 20:19

Tgt Ion: 43 Resp: 56436

Ion Ratio Lower Upper

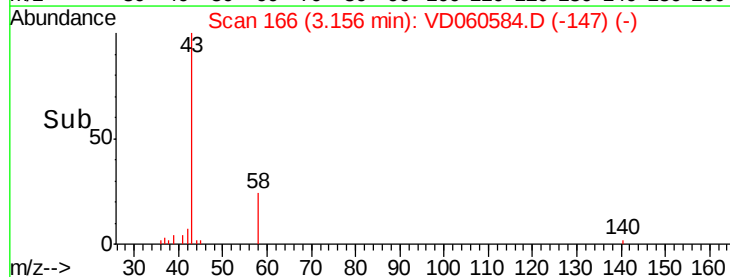
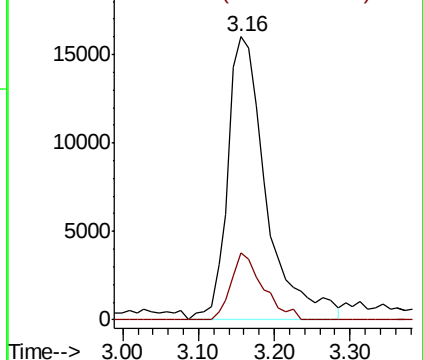
43 100

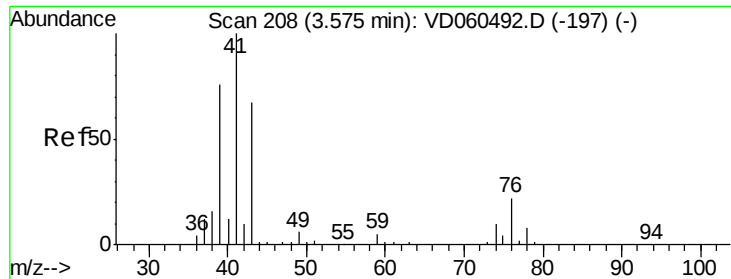
58 23.9 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

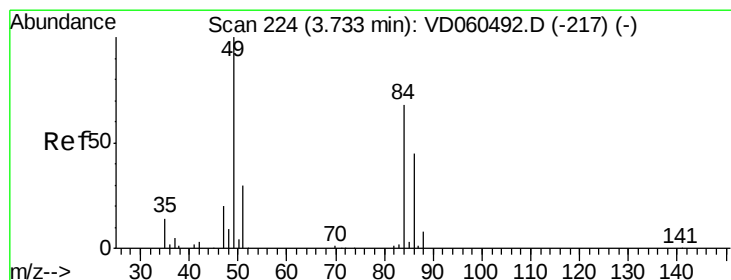
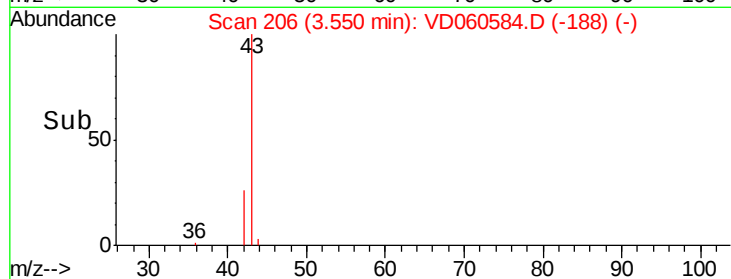
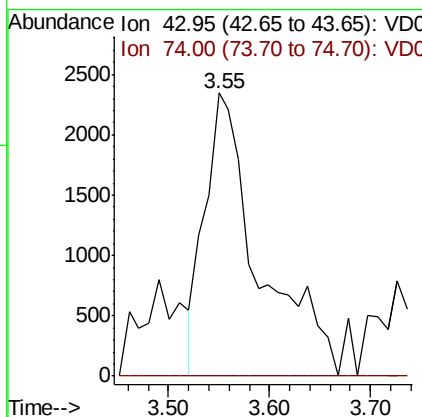
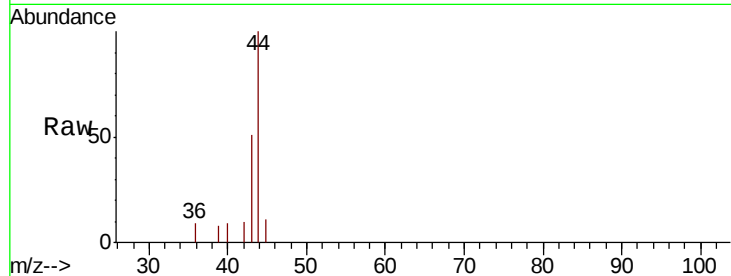




#18
Methyl Acetate
Concen: 2.185 ug/l
RT: 3.55 min Scan# 206
Delta R.T. -0.03 min
Lab File: VD060584.D
Acq: 14 Dec 2018 20:19

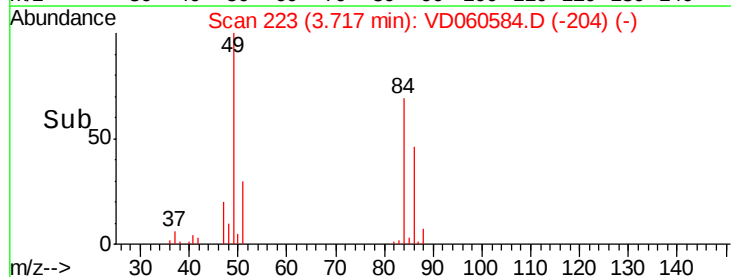
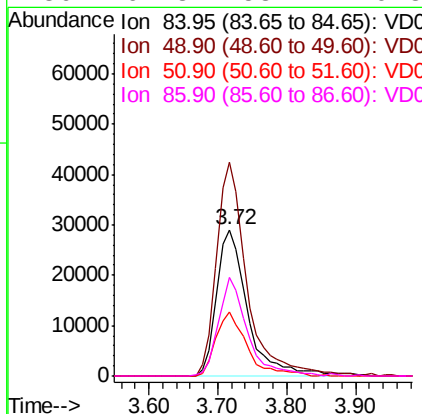
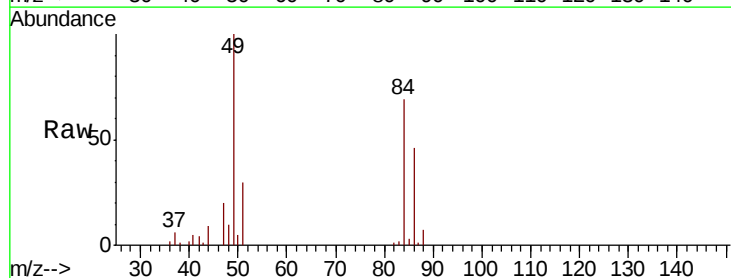
Instrument :
MSVOA_D
ClientSampleID :

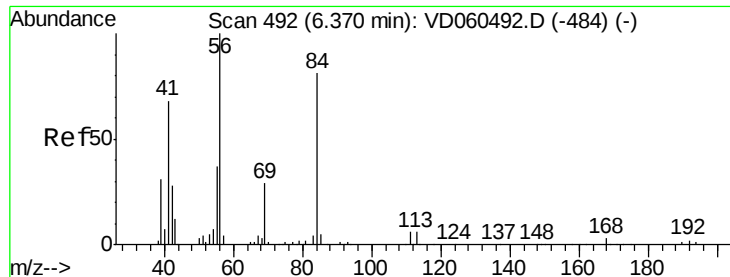
Tot Ion: 43 Resp: 8790
Ion Ratio Lower Upper
43 100
74 0.0 12.0 18.0#



#20
Methylene Chloride
Concen: 1.466 ug/l
RT: 3.72 min Scan# 223
Delta R.T. -0.02 min
Lab File: VD060584.D
Acq: 14 Dec 2018 20:19

Tgt Ion: 84 Resp: 90247
Ion Ratio Lower Upper
84 100
49 145.9 117.2 175.8
51 44.1 35.3 52.9
86 67.3 53.2 79.8





#31

Cyclohexane

Concen: Below Cal

RT: 6.39 min Scan# 495

Delta R.T. 0.02 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

Instrument :

MSVOA_D

ClientSampleId :

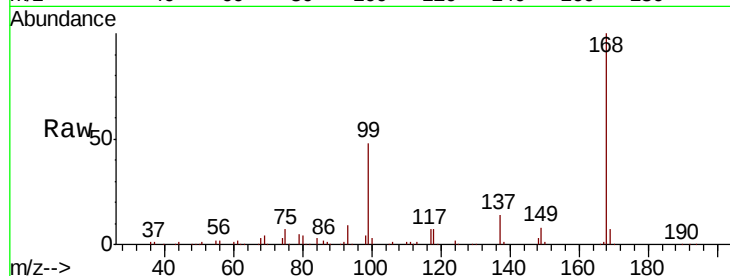
Tot Ion: 56 Resp: 27755

Ion Ratio Lower Upper

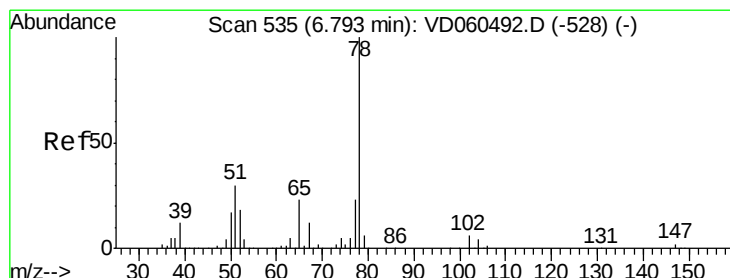
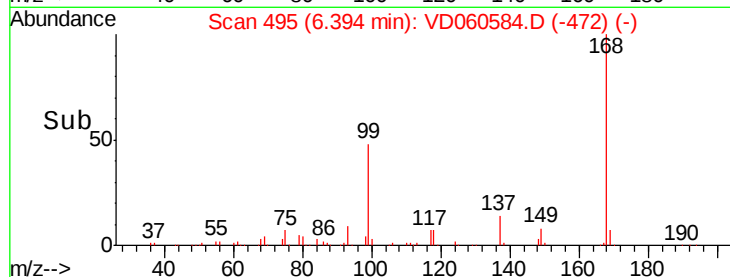
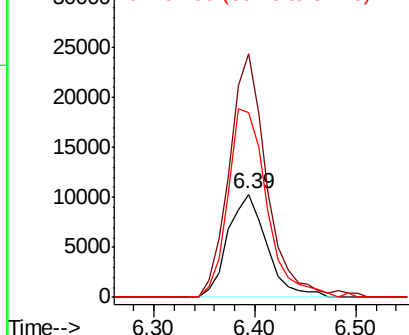
56 100

69 235.6 22.8 34.2#

84 178.3 65.1 97.7#



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: 6.77 min Scan# 533

Delta R.T. -0.03 min

Lab File: VD060584.D

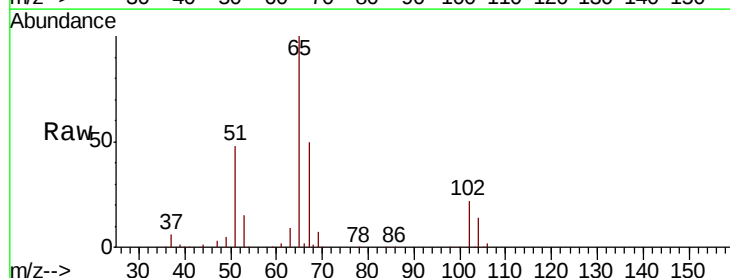
Acq: 14 Dec 2018 20:19

Tgt Ion: 65 Resp: 579045

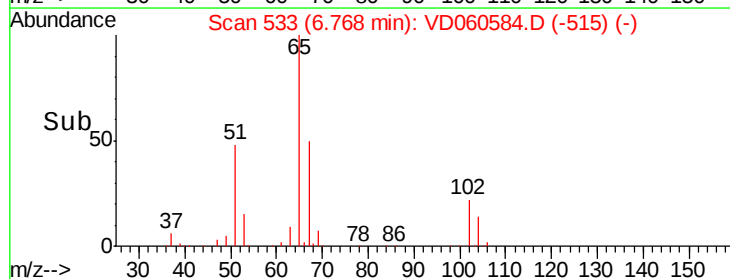
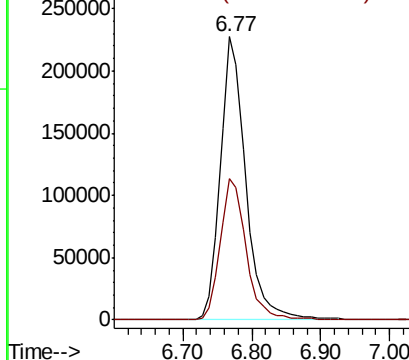
Ion Ratio Lower Upper

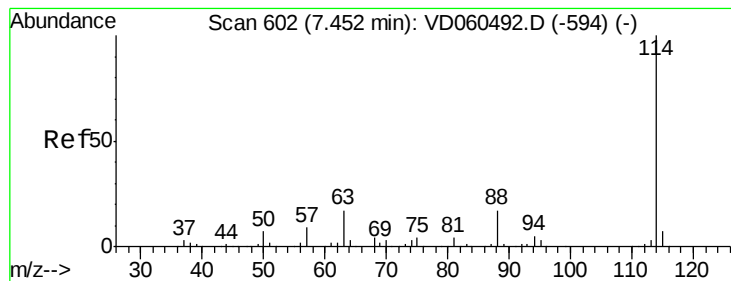
65 100

67 50.0 0.0 106.8



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: 7.43 min Scan# 600

Delta R.T. -0.03 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

Instrument :

MSVOA_D

ClientSampled :

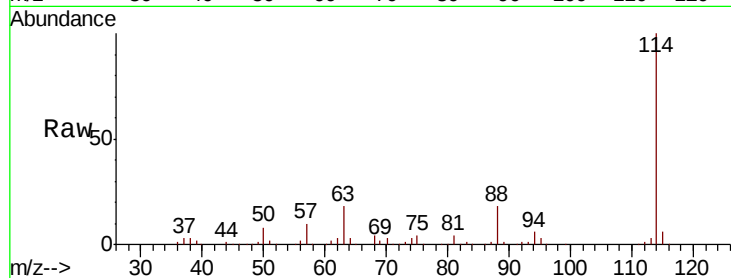
Tot Ion:114 Resp: 2081016

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.2

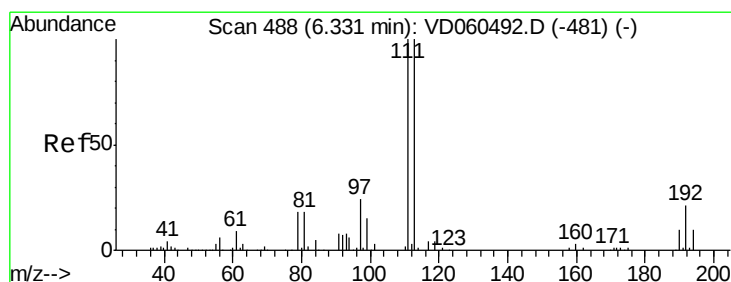
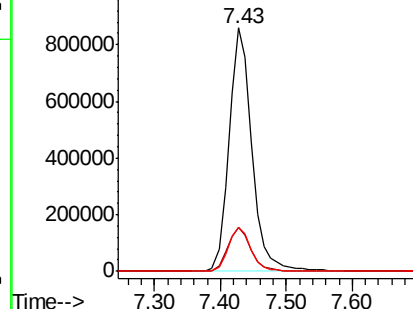
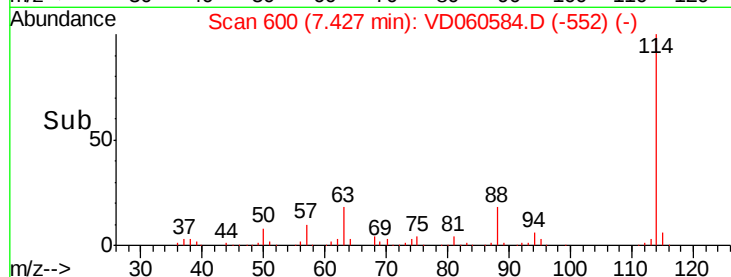
88 18.2 0.0 35.0



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: 6.31 min Scan# 487

Delta R.T. -0.02 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

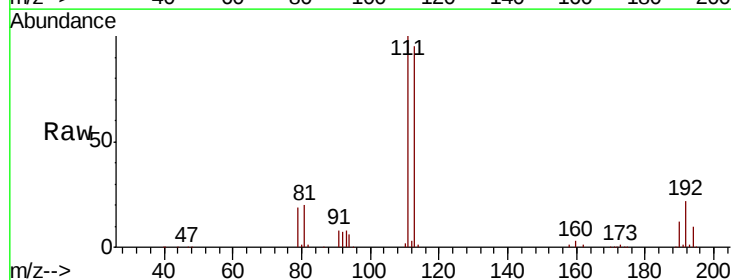
Tgt Ion:113 Resp: 757130

Ion Ratio Lower Upper

113 100

111 104.8 80.2 120.4

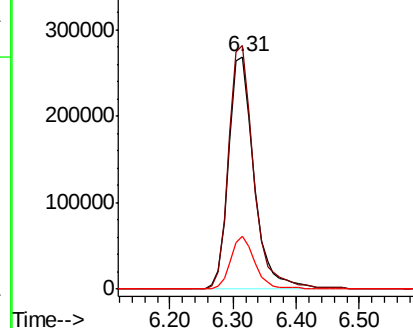
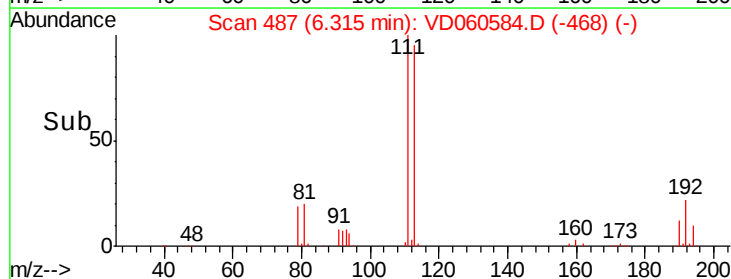
192 22.7 16.6 24.8

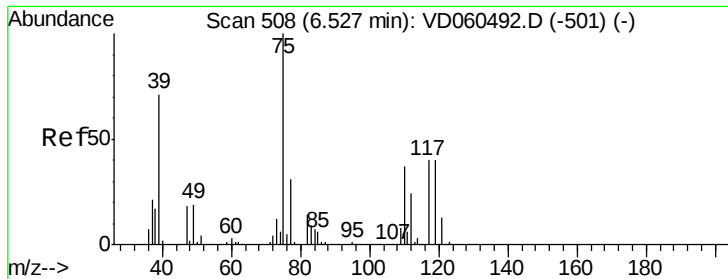


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.163 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.13 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

Instrument :

MSVOA_D

ClientSampled :

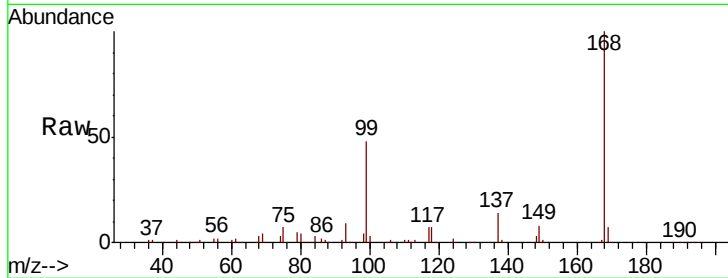
Tot Ion: 75 Resp: 105019

Ion Ratio Lower Upper

75 100

110 7.6 18.3 54.8#

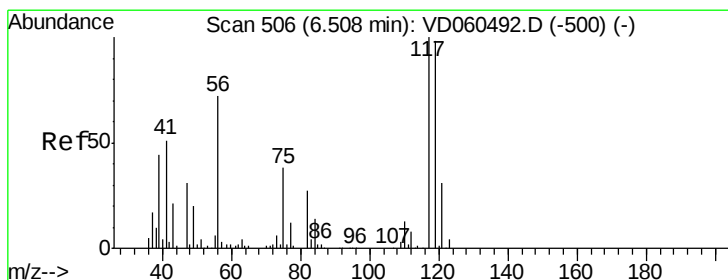
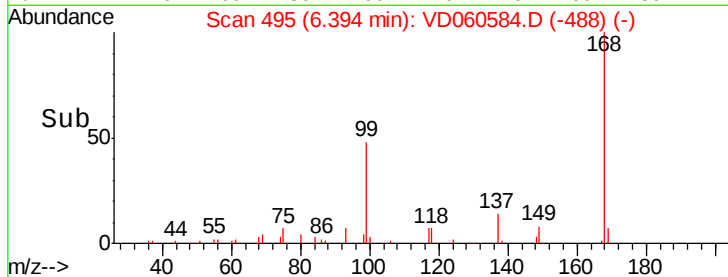
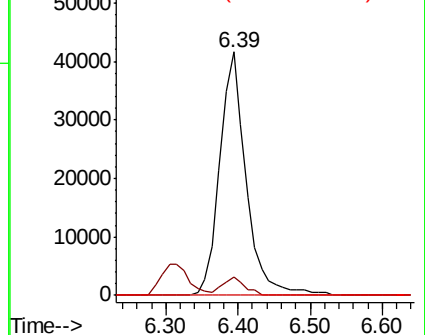
77 0.0 24.6 37.0#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.216 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.11 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

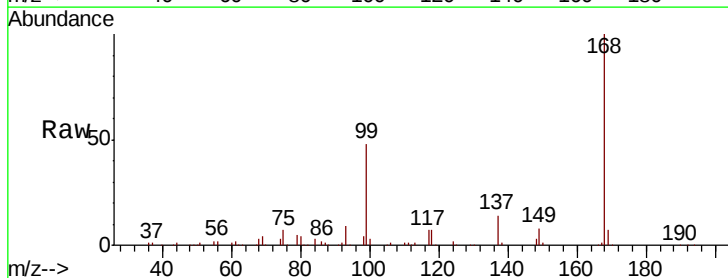
Tgt Ion: 117 Resp: 113514

Ion Ratio Lower Upper

117 100

119 4.3 76.8 115.2#

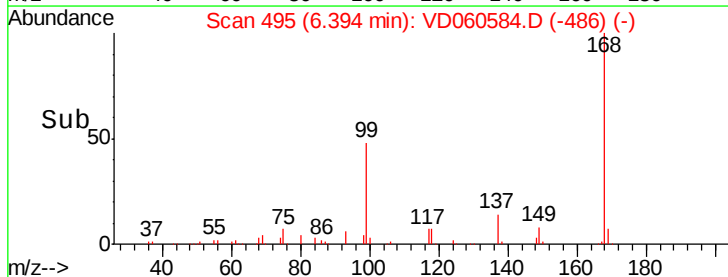
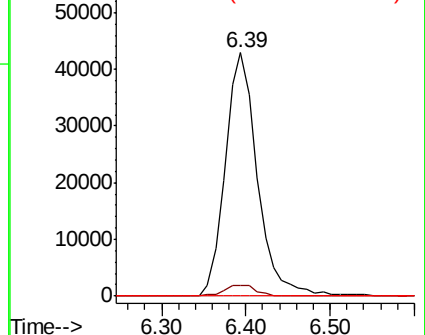
121 0.0 24.4 36.6#

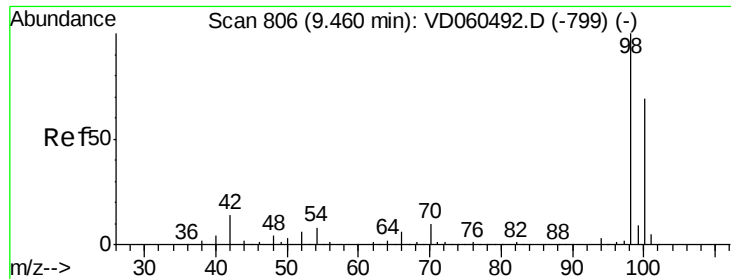


Abundance Ion 116.85 (116.55 to 117.55): V

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: 9.44 min Scan# 805

Delta R.T. -0.02 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

Instrument :

MSVOA_D

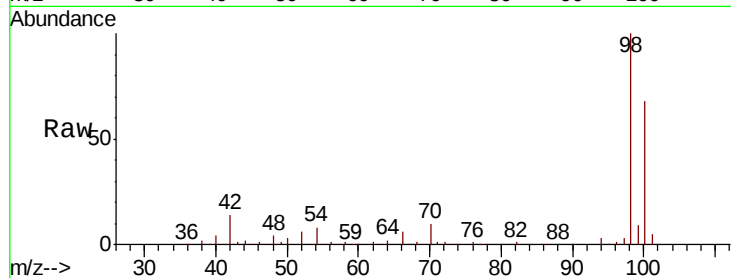
ClientSampled :

Tot Ion: 98 Resp: 2081743

Ion Ratio Lower Upper

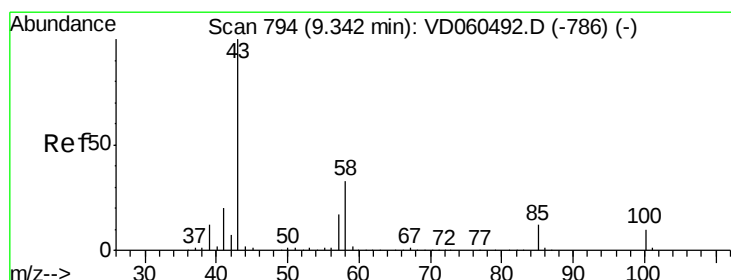
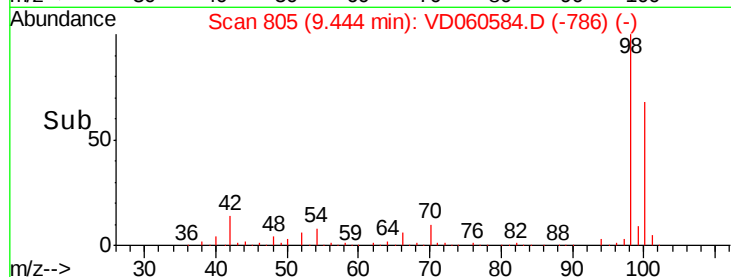
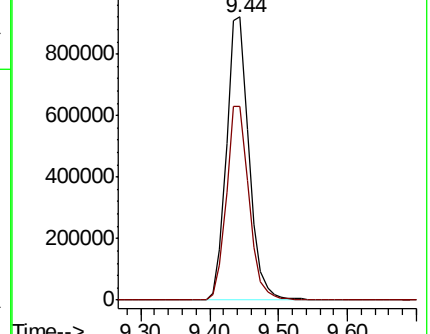
98 100

100 68.5 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.693 ug/l

RT: 9.43 min Scan# 804

Delta R.T. 0.09 min

Lab File: VD060584.D

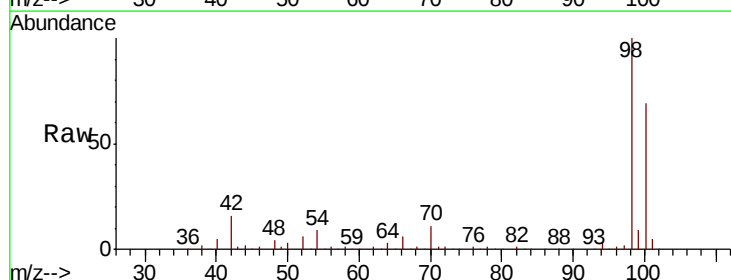
Acq: 14 Dec 2018 20:19

Tgt Ion: 43 Resp: 11465

Ion Ratio Lower Upper

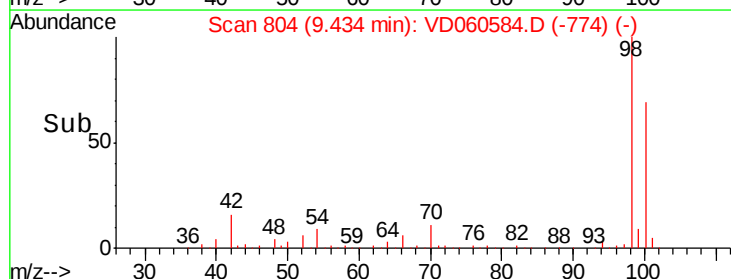
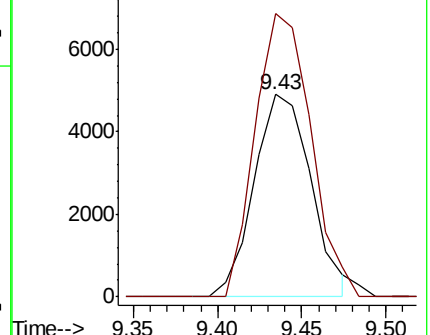
43 100

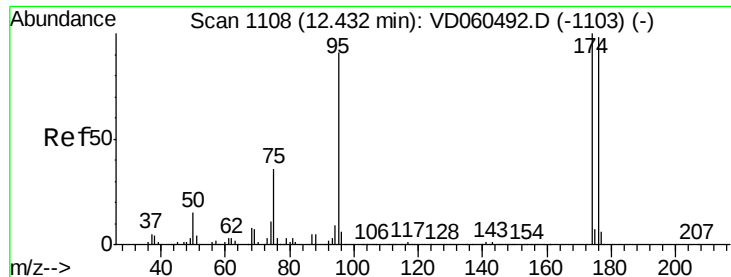
58 140.0 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

Instrument :

MSVOA_D

ClientSampleId :

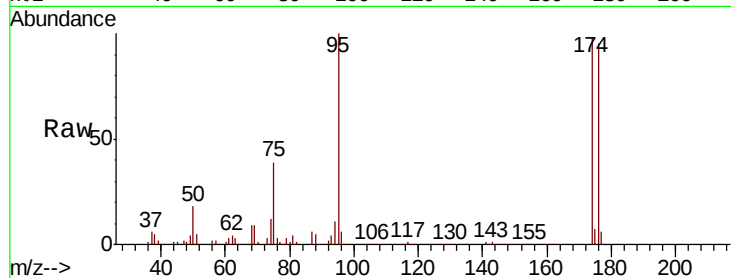
Tot Ion: 95 Resp: 642162

Ion Ratio Lower Upper

95 100

174 97.9 0.0 219.4

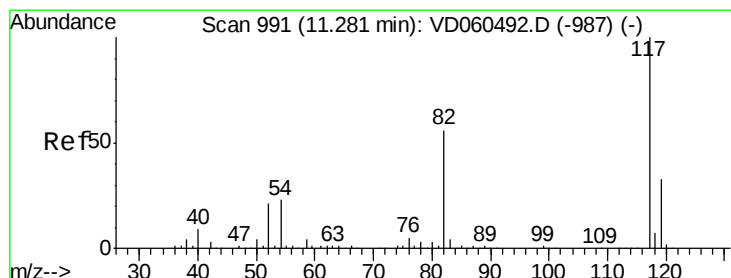
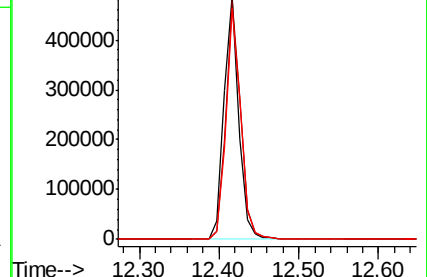
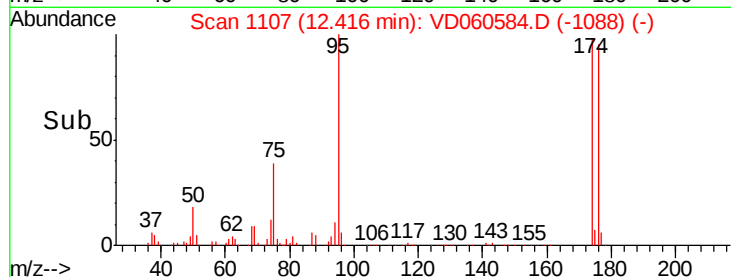
176 94.6 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.27 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

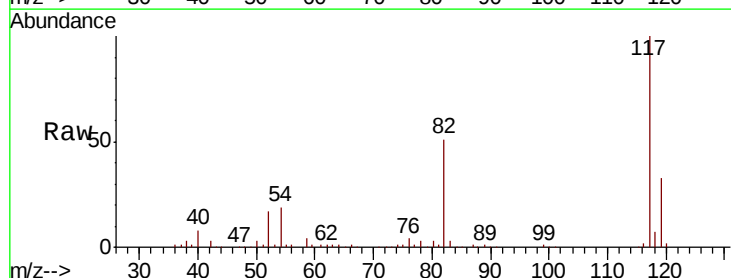
Tgt Ion: 117 Resp: 1549048

Ion Ratio Lower Upper

117 100

82 51.1 45.2 67.8

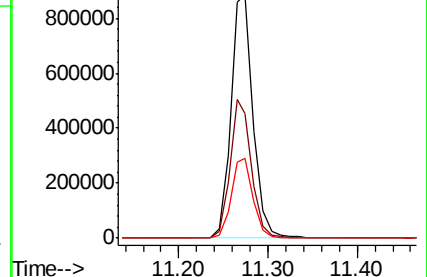
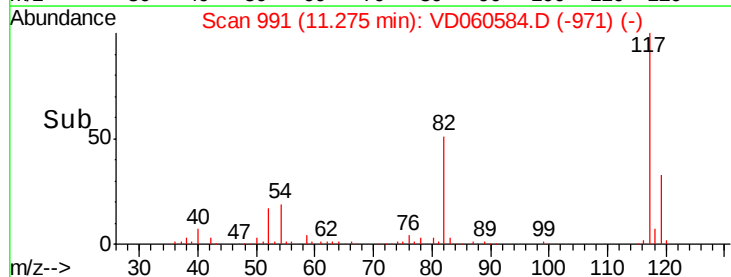
119 33.0 26.1 39.1

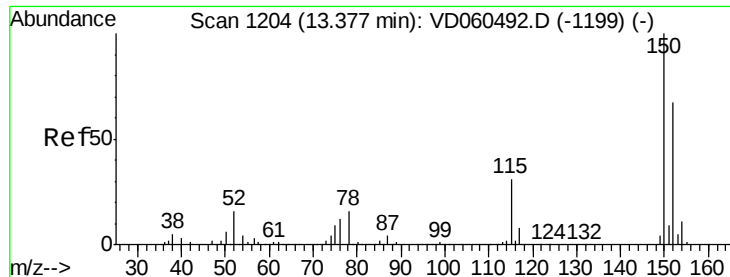


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.02 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

Instrument :

MSVOA_D

ClientSampled :

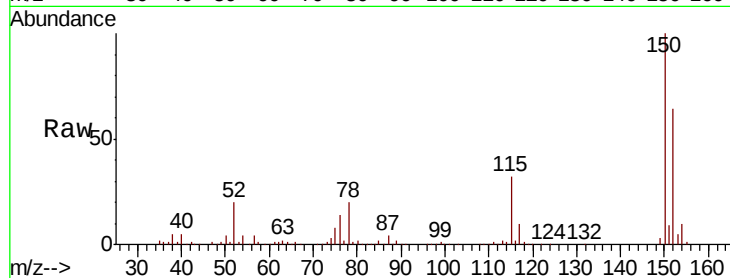
Tot Ion:152 Resp: 602189

Ion Ratio Lower Upper

152 100

115 50.8 24.6 74.0

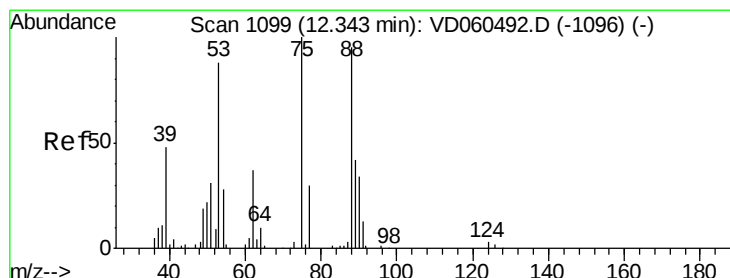
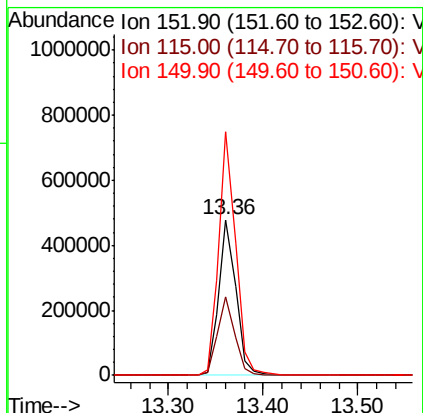
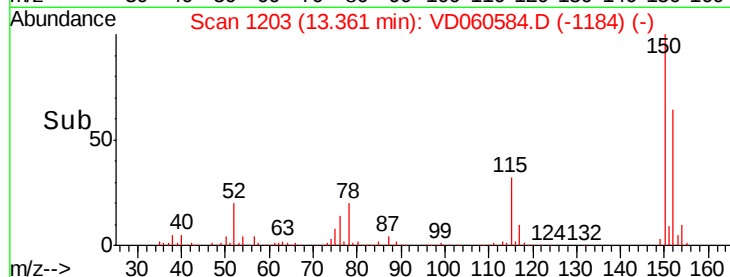
150 156.7 0.0 309.0



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: 135.762 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.07 min

Lab File: VD060584.D

Acq: 14 Dec 2018 20:19

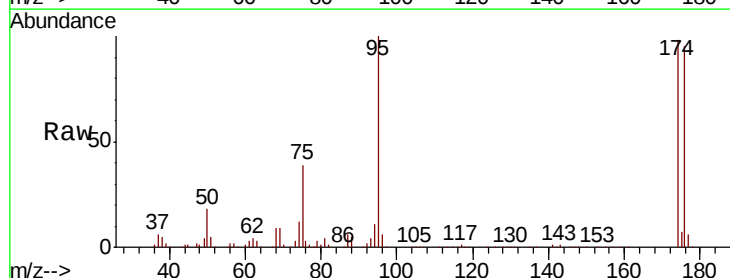
Tgt Ion: 75 Resp: 258357

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

