

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020119\
 Data File : VD060827.D
 Acq On : 1 Feb 2019 18:57
 Operator : VA/AP
 Sample : K1360-03RE
 Misc : 4.39g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200034RE

Quant Time: Feb 02 00:26:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.78	168	89178	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.96	114	129158	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.14	117	124560	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.31	152	74168	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.19	65	97561	71.36	ug/l	-0.03
Spiked Amount			Recovery	=	142.72%	
35) Dibromofluoromethane	6.66	113	55829	45.07	ug/l	-0.02
Spiked Amount			Recovery	=	90.14%	
50) Toluene-d8	10.16	98	113348	39.19	ug/l	-0.03
Spiked Amount			Recovery	=	78.38%	
62) 4-Bromofluorobenzene	13.34	95	68252	46.95	ug/l	-0.02
Spiked Amount			Recovery	=	93.90%	

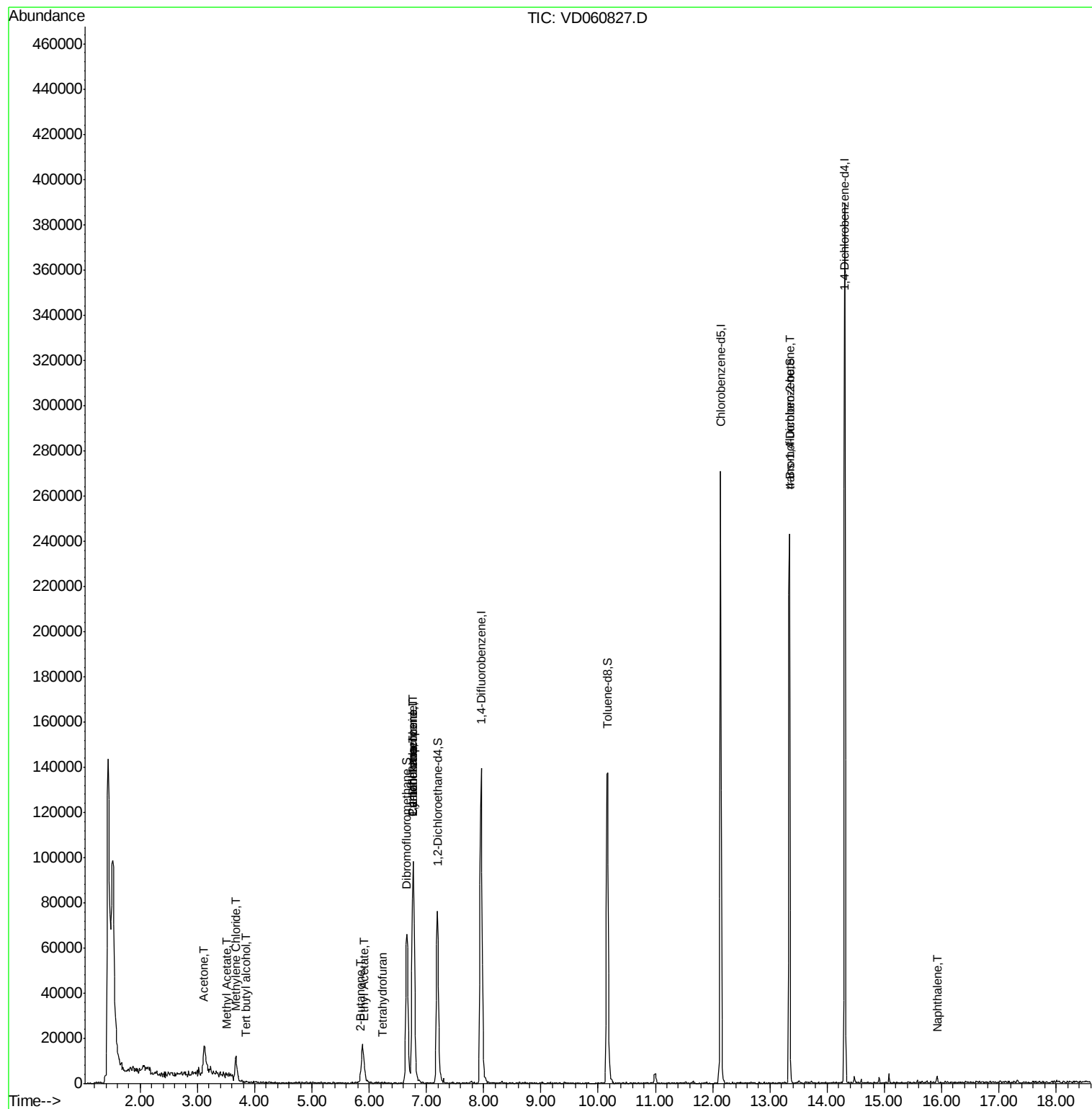
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.85	59	187	2.862	ug/l #	69
13) Acrolein	2.89	56	184	Below Cal	#	9
16) Acetone	3.12	43	35218	178.350	ug/l #	86
18) Methyl Acetate	3.52	43	571	1.459	ug/l #	63
20) Methylene Chloride	3.67	84	5722	2.121	ug/l #	89
25) 2-Butanone	5.83	43	1202	4.756	ug/l #	59
29) Tetrahydrofuran	6.22	42	730	6.014	ug/l #	33
31) Cyclohexane	6.78	56	2924	2.330	ug/l #	9
36) 1,1-Dichloropropene	6.78	75	8798	5.705	ug/l #	47
37) Ethyl Acetate	5.92	43	893	1.297	ug/l #	68
38) Carbon Tetrachloride	6.77	117	11144	5.763	ug/l #	13
81) trans-1,4-Dichloro-2-buten	13.34	75	40834	115.161	ug/l #	1
95) Naphthalene	15.92	128	3399	1.132	ug/l #	69

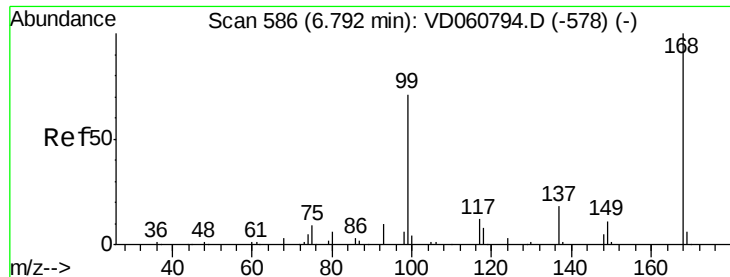
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.78 min Scan# 584

Delta R.T. -0.02 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

Instrument :

MSVOA_D

ClientSampleId :

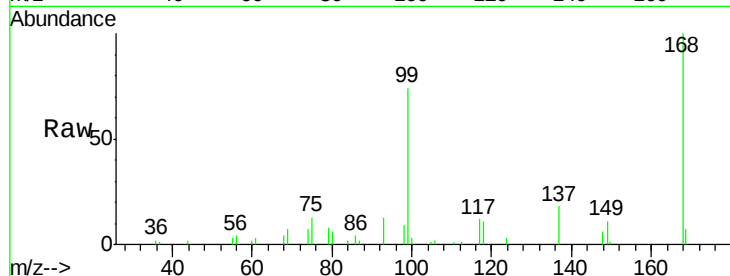
RBR-200034RE

Tot Ion:168 Resp: 89178

Ion Ratio Lower Upper

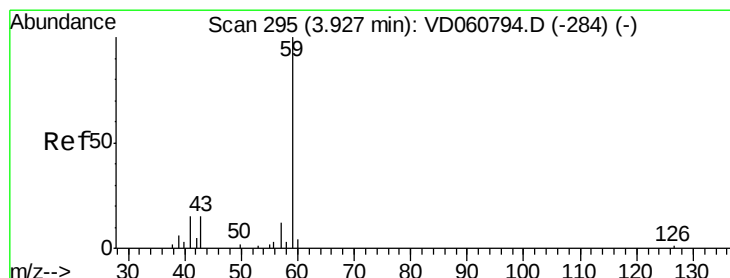
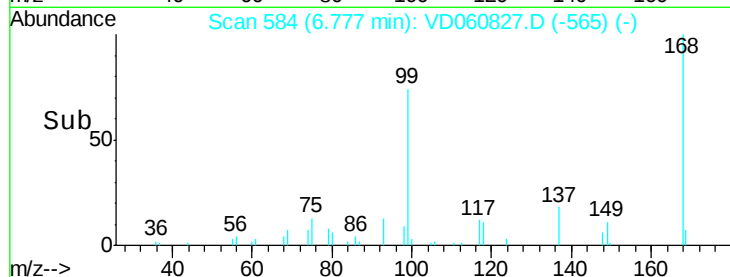
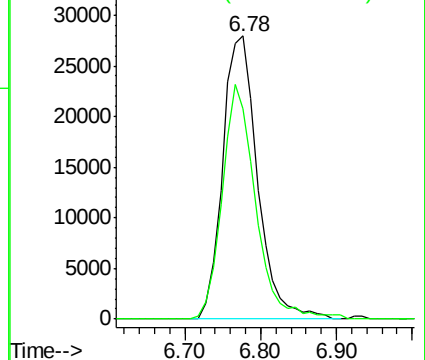
168 100

99 74.1 59.2 88.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 2.862 ug/l

RT: 3.85 min Scan# 287

Delta R.T. -0.07 min

Lab File: VD060827.D

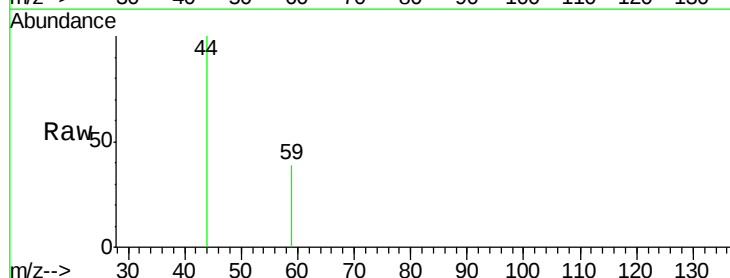
Acq: 1 Feb 2019 18:57

Tgt Ion: 59 Resp: 187

Ion Ratio Lower Upper

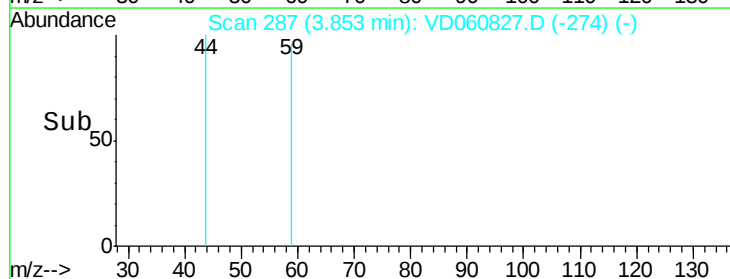
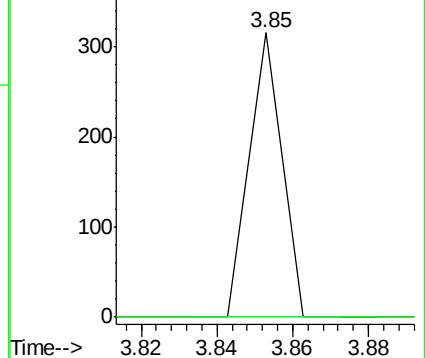
59 100

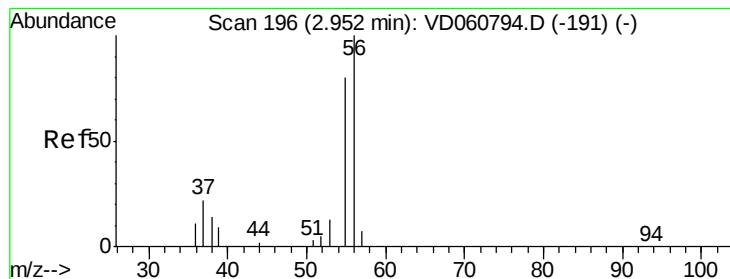
57 0.0 9.8 14.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: Below Cal

RT: 2.89 min Scan# 189

Delta R.T. -0.06 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

Instrument :

MSVOA_D

ClientSampleId :

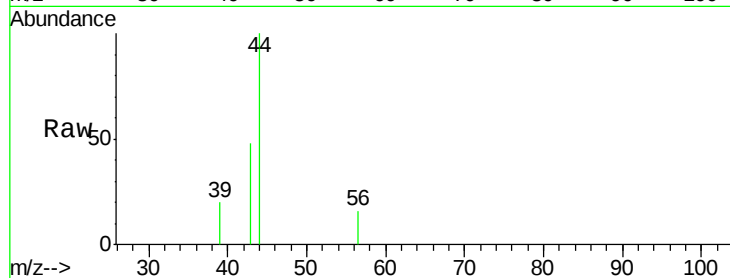
RBR-200034RE

Tot Ion: 56 Resp: 184

Ion Ratio Lower Upper

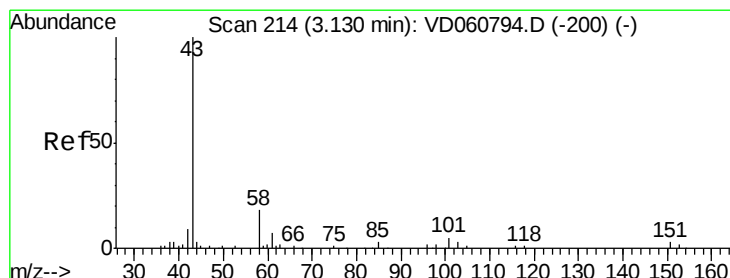
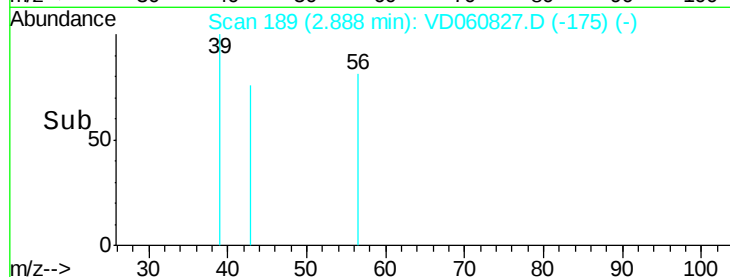
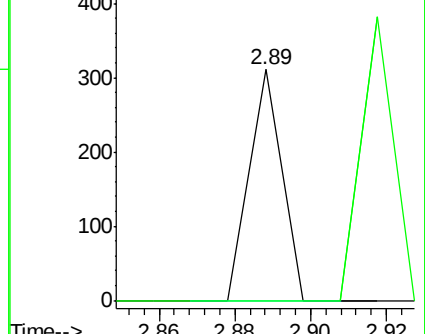
56 100

55 0.0 64.2 96.2#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 178.350 ug/l

RT: 3.12 min Scan# 213

Delta R.T. -0.01 min

Lab File: VD060827.D

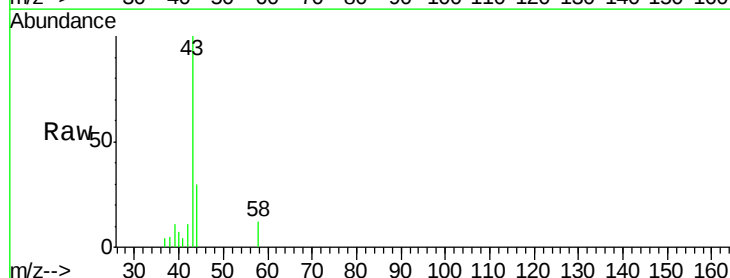
Acq: 1 Feb 2019 18:57

Tgt Ion: 43 Resp: 35218

Ion Ratio Lower Upper

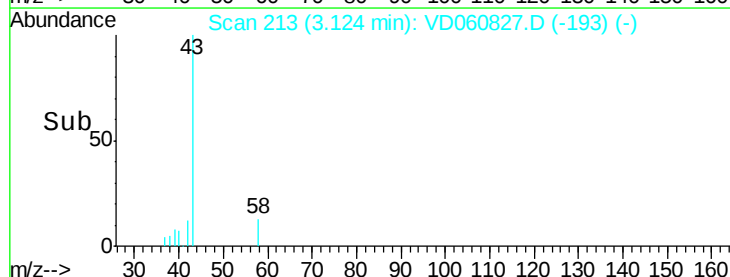
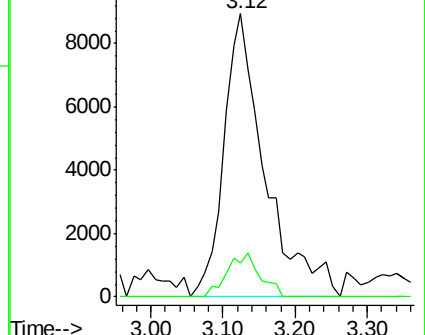
43 100

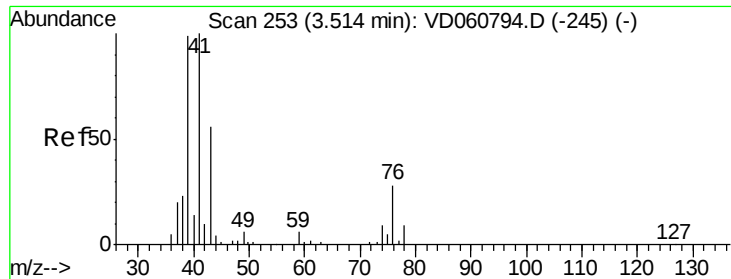
58 11.9 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

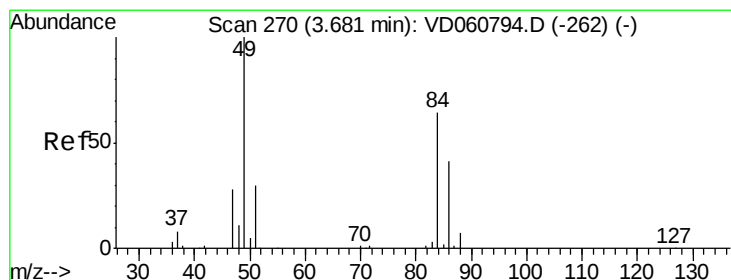
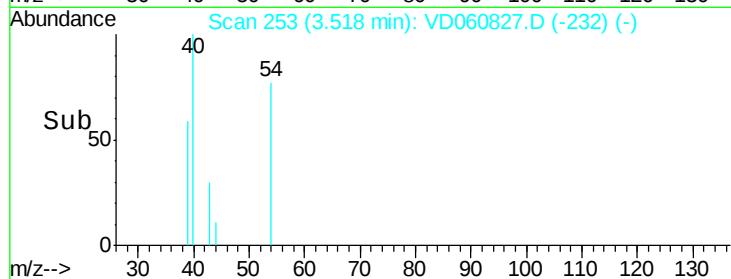
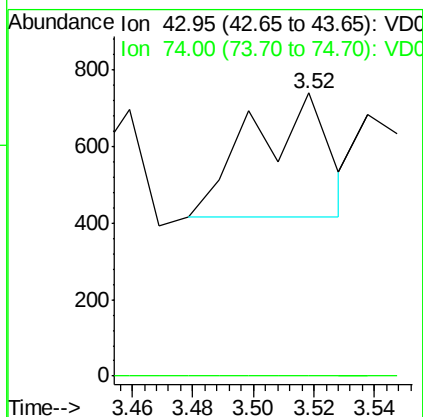
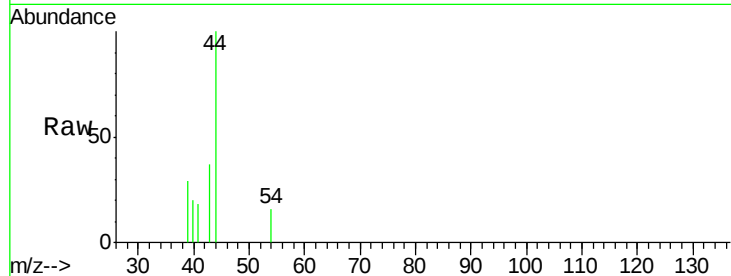




#18
Methvl Acetate
Concen: 1.459 ug/l
RT: 3.52 min Scan# 253
Delta R.T. 0.00 min
Lab File: VD060827.D
Acq: 1 Feb 2019 18:57

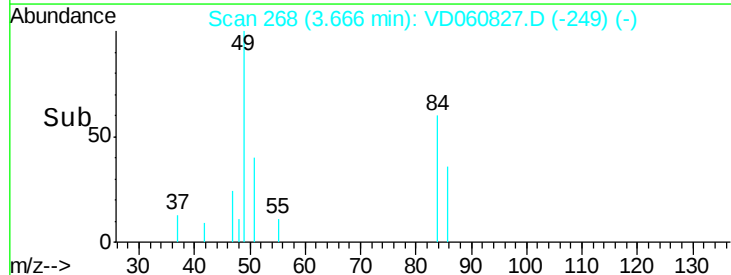
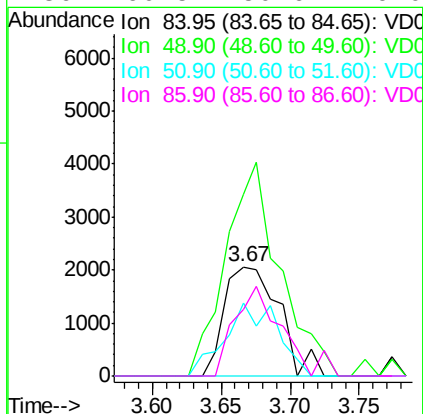
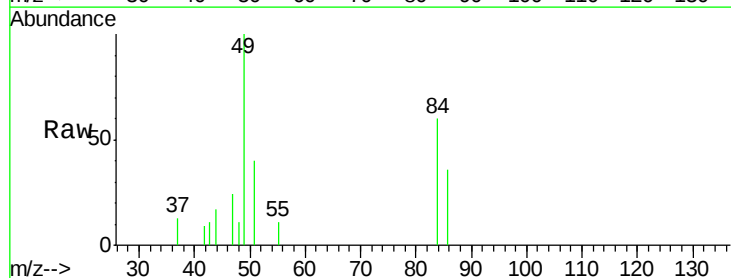
Instrument :
MSVOA_D
ClientSampleId :
RBR-200034RE

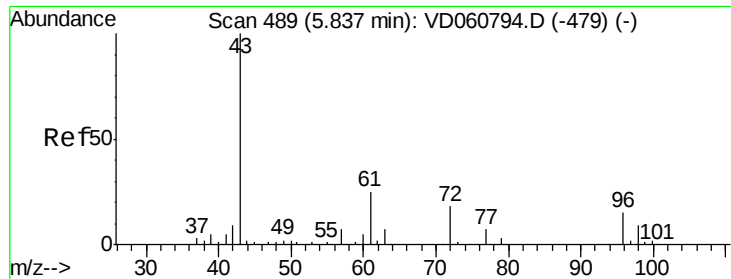
Tot Ion: 43 Resp: 571
Ion Ratio Lower Upper
43 100
74 0.0 12.5 18.7#



#20
Methylene Chloride
Concen: 2.121 ug/l
RT: 3.67 min Scan# 268
Delta R.T. -0.01 min
Lab File: VD060827.D
Acq: 1 Feb 2019 18:57

Tgt Ion: 84 Resp: 5722
Ion Ratio Lower Upper
84 100
49 166.7 124.2 186.2
51 67.1 38.1 57.1#
86 60.5 50.6 76.0

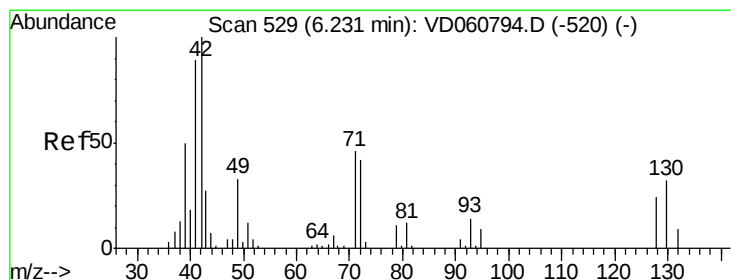
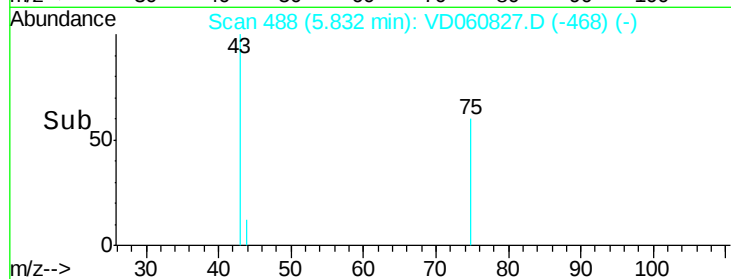
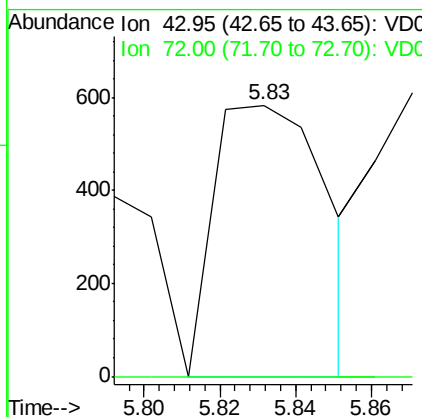
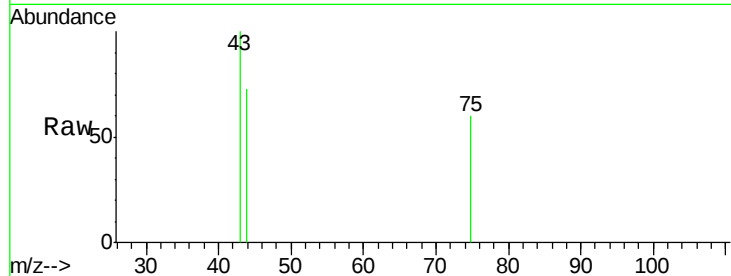




#25
2-Butanone
Concen: 4.756 ug/l
RT: 5.83 min Scan# 488
Delta R.T. -0.01 min
Lab File: VD060827.D
Acq: 1 Feb 2019 18:57

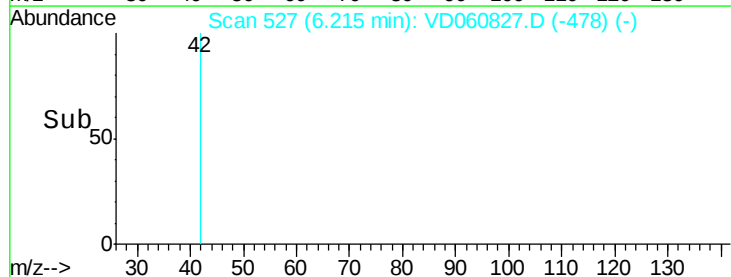
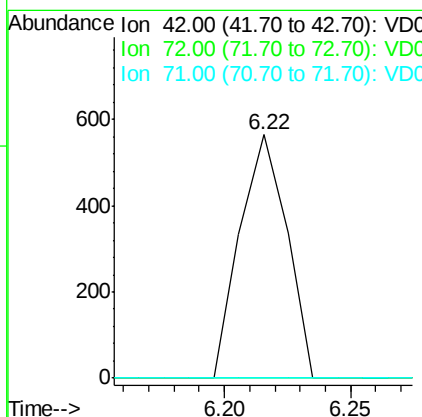
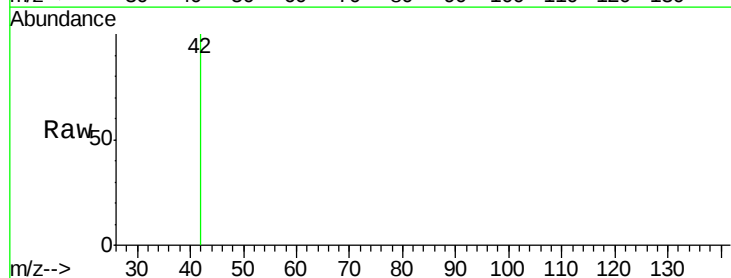
Instrument :
MSVOA_D
ClientSampleId :
RBR-200034RE

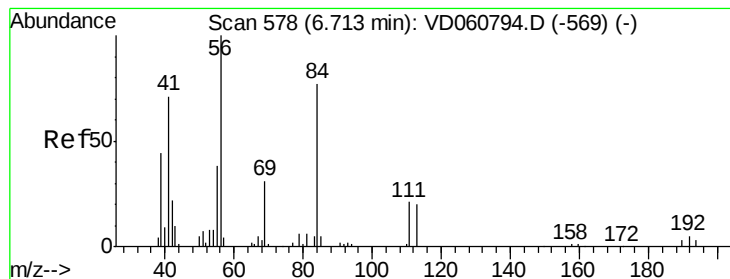
Tot Ion: 43 Resp: 1202
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#



#29
Tetrahydrofuran
Concen: 6.014 ug/l
RT: 6.22 min Scan# 527
Delta R.T. -0.02 min
Lab File: VD060827.D
Acq: 1 Feb 2019 18:57

Tgt Ion: 42 Resp: 730
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 34.6 52.0#





#31

Cyclohexane

Concen: 2.330 ug/l

RT: 6.78 min Scan# 584

Delta R.T. 0.06 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

Instrument :

MSVOA_D

ClientSampleId :

RBR-200034RE

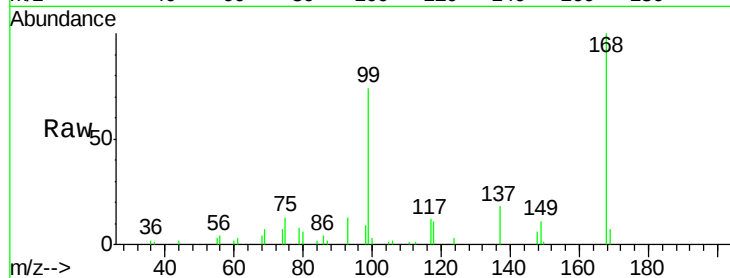
Tot Ion: 56 Resp: 2924

Ion Ratio Lower Upper

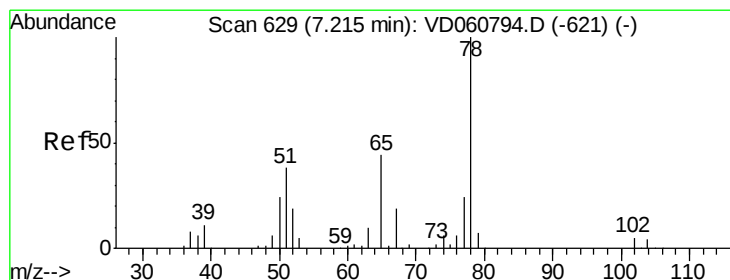
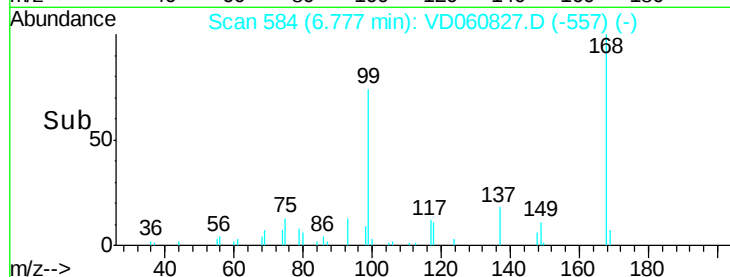
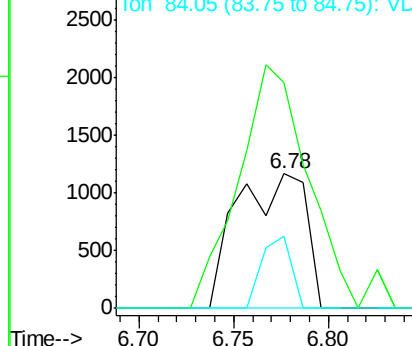
56 100

69 167.9 25.1 37.7#

84 53.7 63.9 95.9#



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: 7.19 min Scan# 626

Delta R.T. -0.03 min

Lab File: VD060827.D

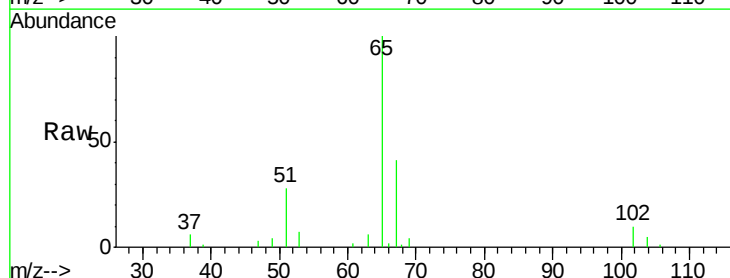
Acq: 1 Feb 2019 18:57

Tgt Ion: 65 Resp: 97561

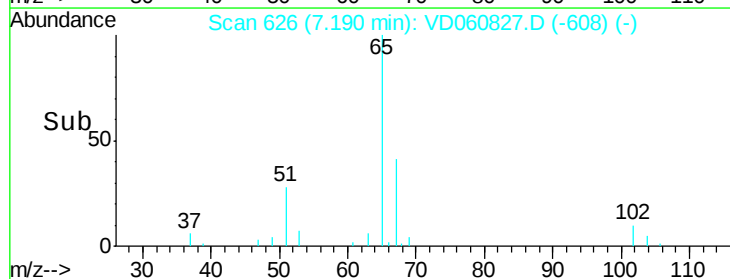
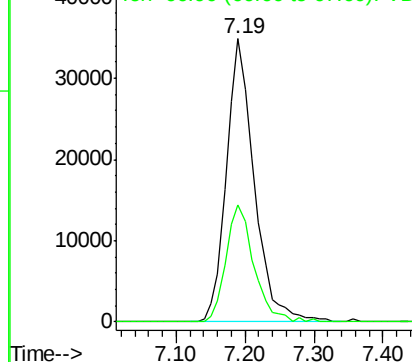
Ion Ratio Lower Upper

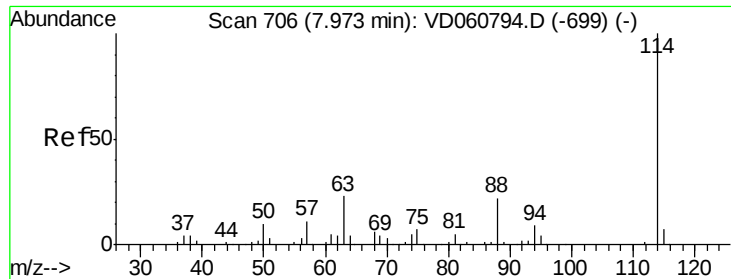
65 100

67 41.2 0.0 85.8



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

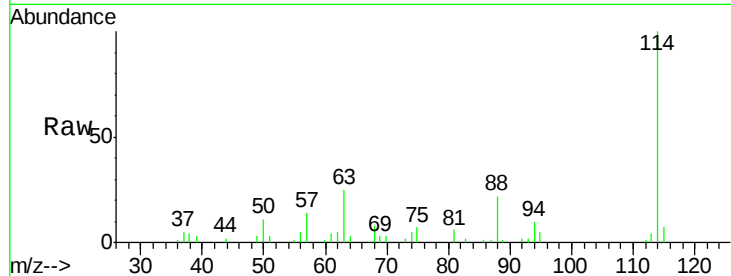




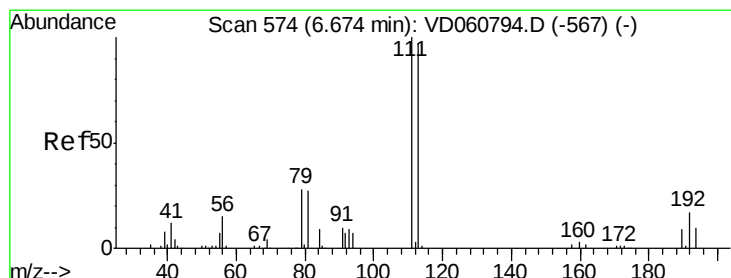
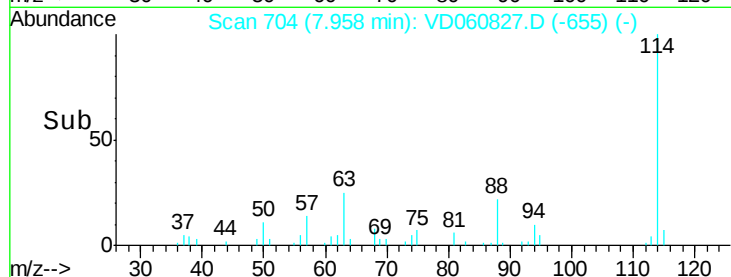
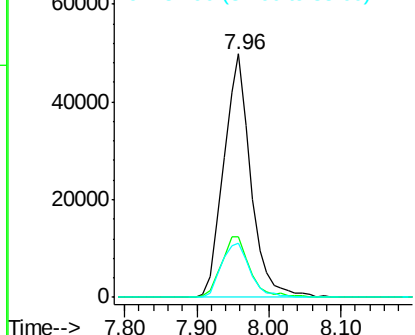
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.96 min Scan# 704
 Delta R.T. -0.02 min
 Lab File: VD060827.D
 Acq: 1 Feb 2019 18:57

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200034RE

Tot Ion:114 Resp: 129158
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 46.6
 88 22.3 0.0 44.0

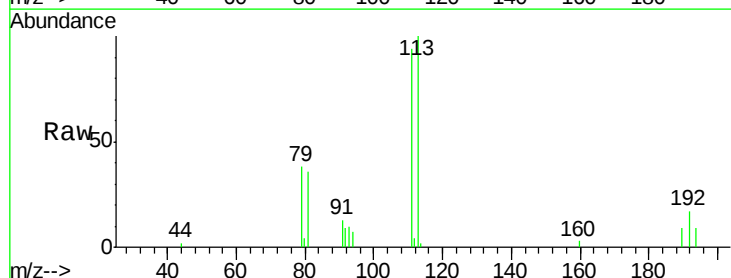


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

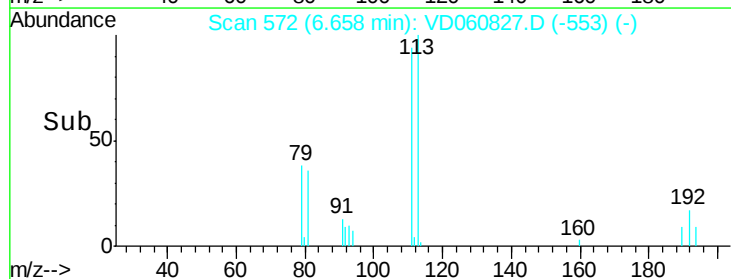
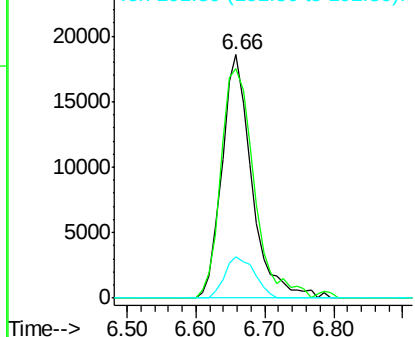


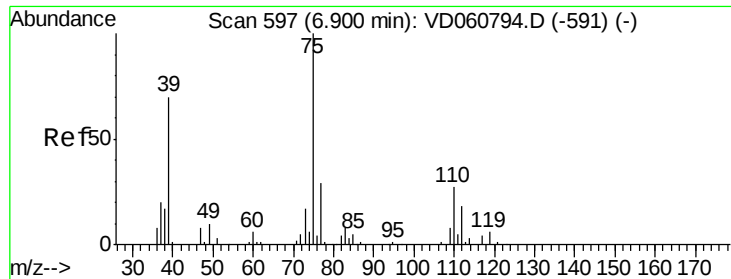
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.66 min Scan# 572
 Delta R.T. -0.02 min
 Lab File: VD060827.D
 Acq: 1 Feb 2019 18:57

Tgt Ion:113 Resp: 55829
 Ion Ratio Lower Upper
 113 100
 111 94.1 82.3 123.5
 192 17.1 14.4 21.6



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: 5.705 ug/l

RT: 6.78 min Scan# 584

Delta R.T. -0.12 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

Instrument :

MSVOA_D

ClientSampleId :

RBR-200034RE

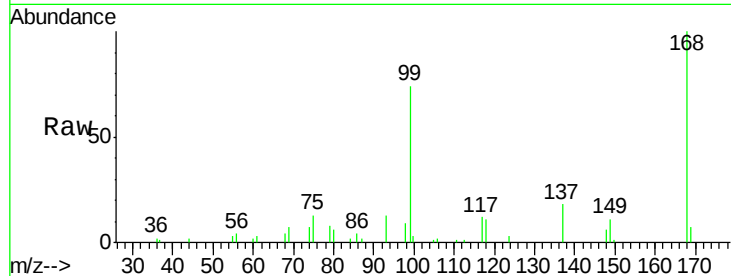
Tot Ion: 75 Resp: 8798

Ion Ratio Lower Upper

75 100

110 0.0 13.5 40.4#

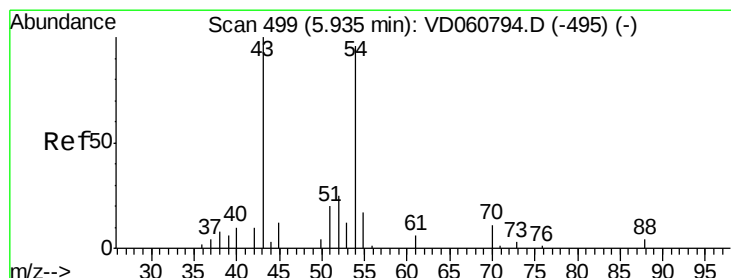
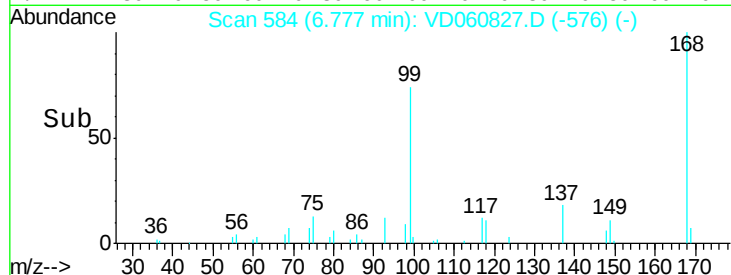
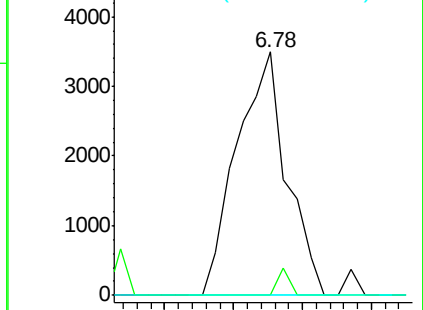
77 0.0 23.4 35.2#



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: 1.297 ug/l

RT: 5.92 min Scan# 497

Delta R.T. -0.02 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

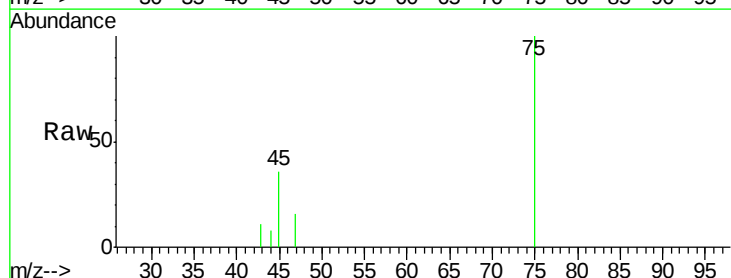
Tgt Ion: 43 Resp: 893

Ion Ratio Lower Upper

43 100

61 0.0 12.3 18.5#

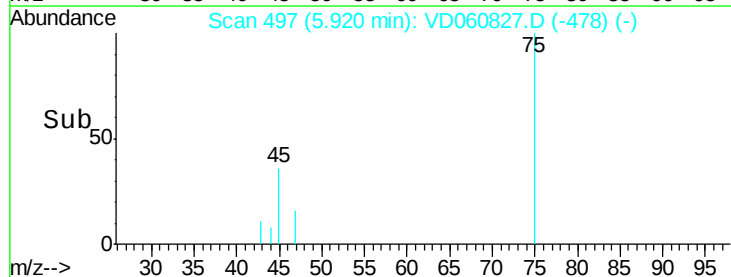
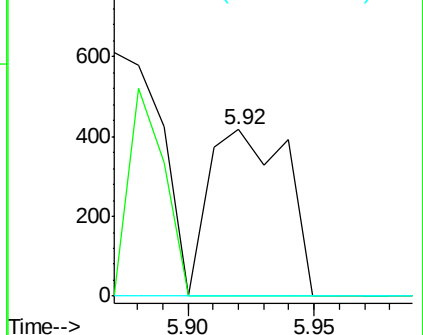
70 0.0 7.4 11.0#

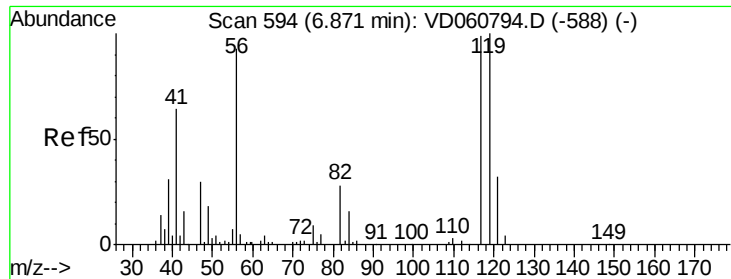


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.763 ug/l

RT: 6.77 min Scan# 583

Delta R.T. -0.10 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

Instrument :

MSVOA_D

ClientSampleId :

RBR-200034RE

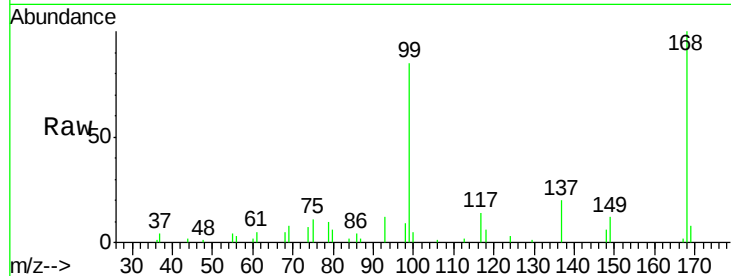
Tot Ion:117 Resp: 11144

Ion Ratio Lower Upper

117 100

119 0.0 75.6 113.4#

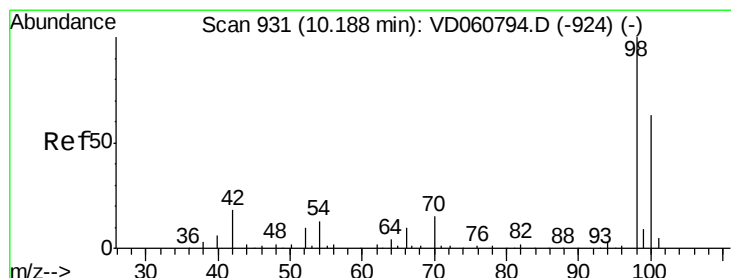
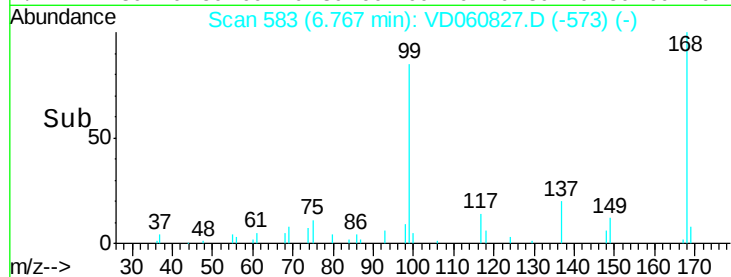
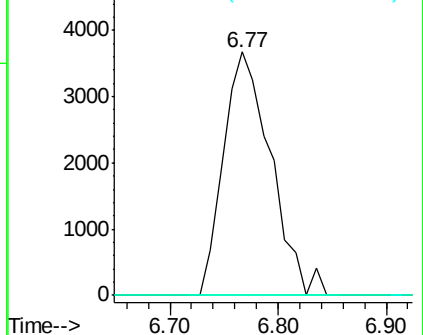
121 0.0 23.4 35.2#



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: 10.16 min Scan# 928

Delta R.T. -0.03 min

Lab File: VD060827.D

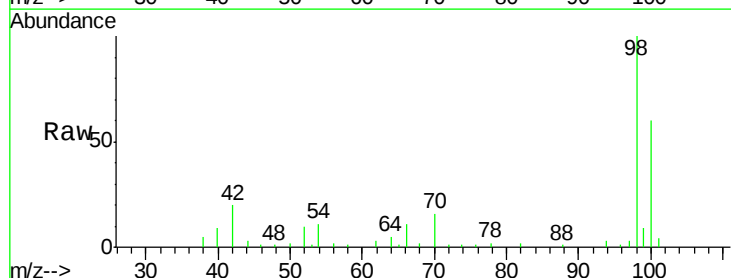
Acq: 1 Feb 2019 18:57

Tgt Ion: 98 Resp: 113348

Ion Ratio Lower Upper

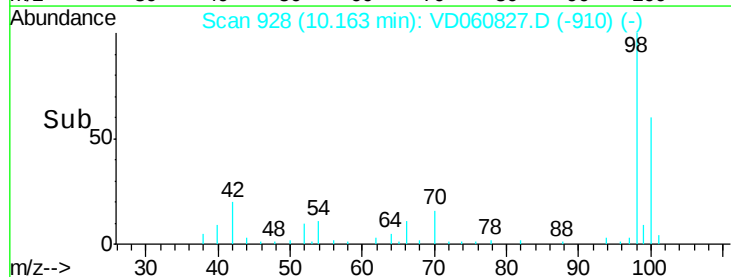
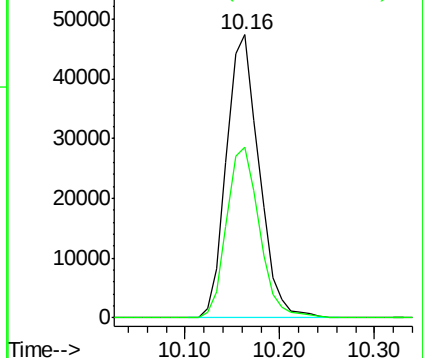
98 100

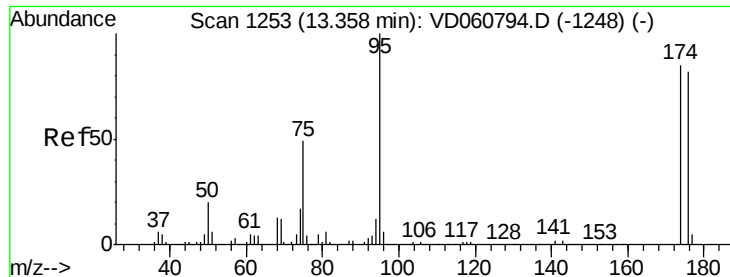
100 60.3 51.0 76.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.34 min Scan# 1251

Delta R.T. -0.02 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

Instrument :

MSVOA_D

ClientSampleId :

RBR-200034RE

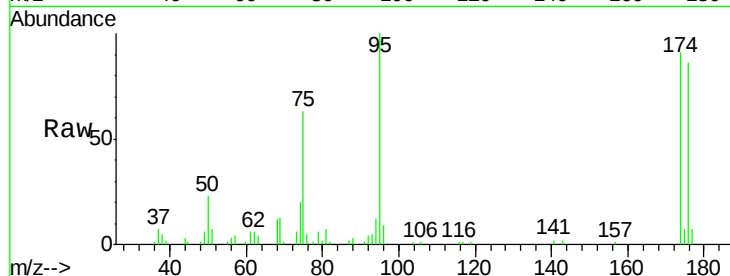
Tot Ion: 95 Resp: 68252

Ion Ratio Lower Upper

95 100

174 91.3 0.0 169.6

176 86.2 0.0 163.8



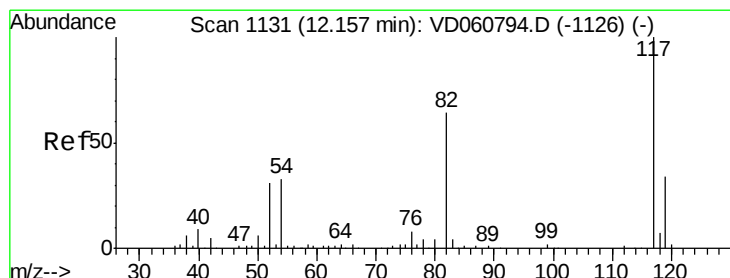
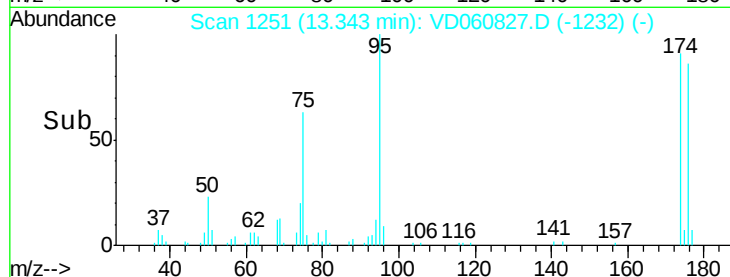
Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

13.34

Time--> 13.25 13.30 13.35 13.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.14 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

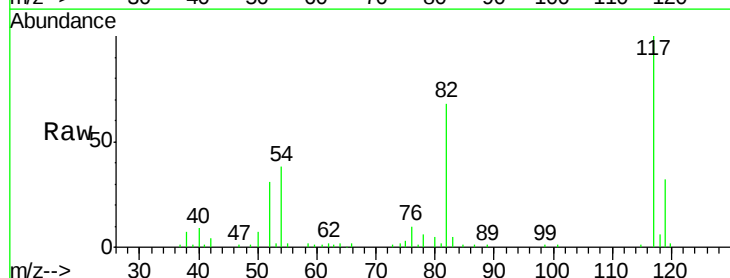
Tgt Ion: 117 Resp: 124560

Ion Ratio Lower Upper

117 100

82 67.6 51.5 77.3

119 31.8 27.1 40.7



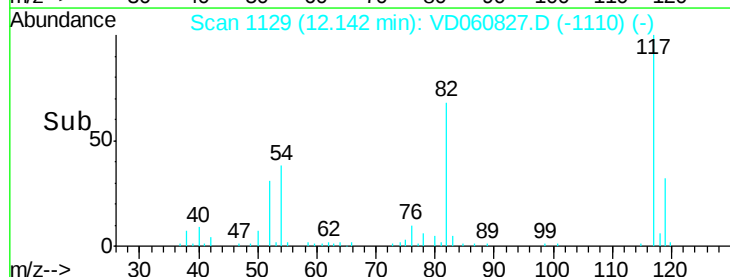
Abundance Ion 116.95 (116.65 to 117.65): V

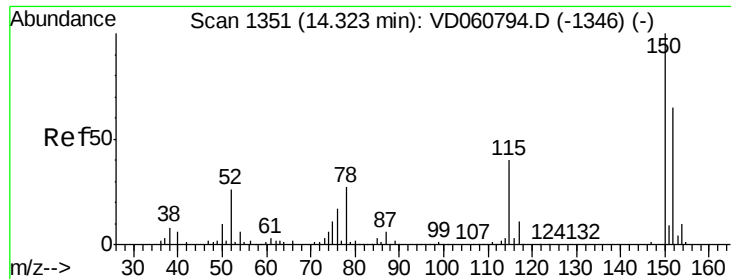
Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

12.14

Time--> 12.10 12.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.31 min Scan# 1349

Delta R.T. -0.02 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

Instrument :

MSVOA_D

ClientSampleId :

RBR-200034RE

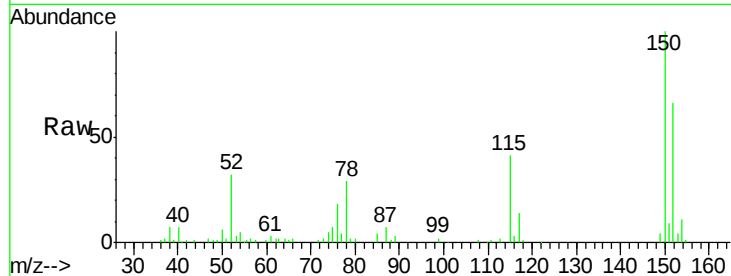
Tot Ion:152 Resp: 74168

Ion Ratio Lower Upper

152 100

115 62.0 31.6 95.0

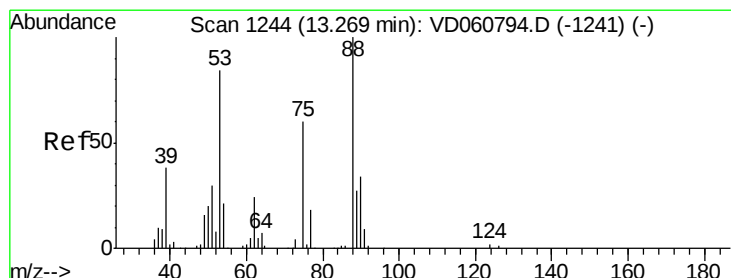
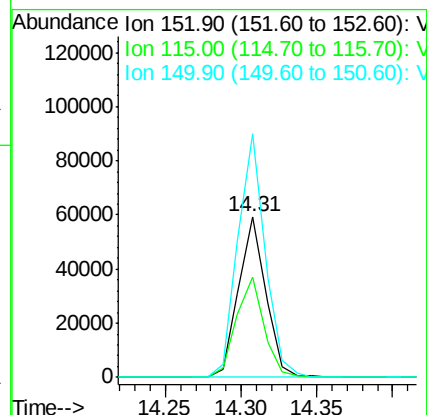
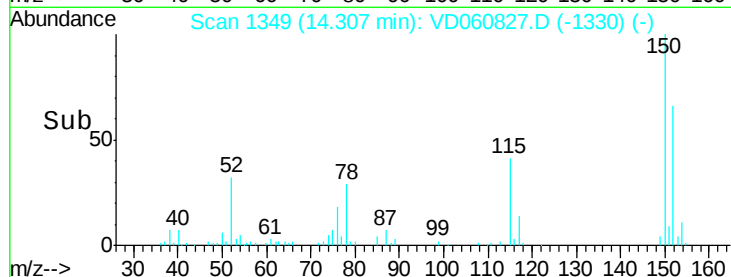
150 151.6 0.0 317.6



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



#81

trans-1,4-Dichloro-2-butene

Concen: 115.161 ug/l

RT: 13.34 min Scan# 1251

Delta R.T. 0.07 min

Lab File: VD060827.D

Acq: 1 Feb 2019 18:57

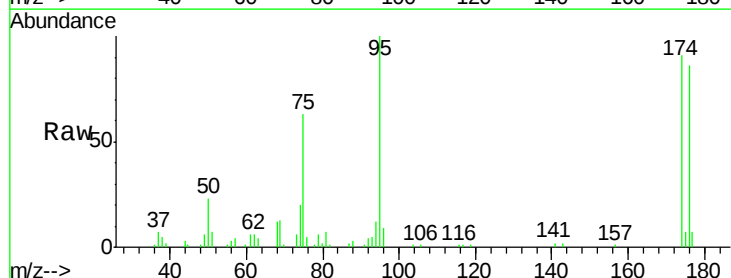
Tgt Ion: 75 Resp: 40834

Ion Ratio Lower Upper

75 100

53 0.0 111.6 167.4#

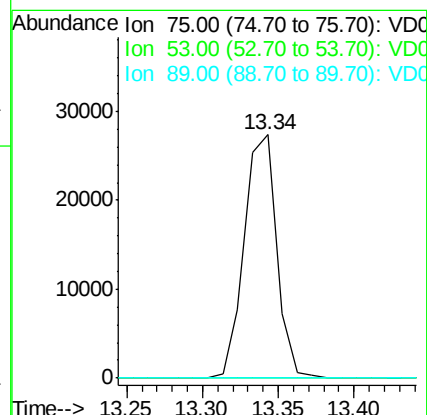
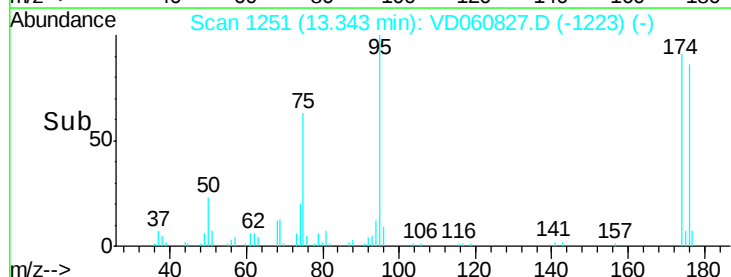
89 0.0 35.9 53.9#

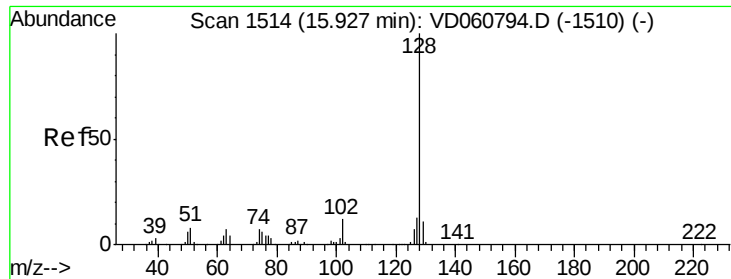


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95
Naphthalene
Concen: 1.132 ug/l
RT: 15.92 min Scan# 1513
Delta R.T. -0.01 min
Lab File: VD060827.D
Acq: 1 Feb 2019 18:57

Instrument :
MSVOA_D
ClientSampleId :
RBR-200034RE

Tot Ion:128 Resp: 3399
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.7 13.1#

