

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020119\
 Data File : VD060825.D
 Acq On : 1 Feb 2019 18:01
 Operator : VA/AP
 Sample : K1297-06RE
 Misc : 4.61µl/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 A0C4-SS1RE

Quant Time: Feb 02 00:26:01 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	6.76	168	81278	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.94	114	116853	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.14	117	96228	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.30	152	32682	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	108049	86.71	ug/l	-0.03
Spiked Amount			Recovery	=	173.42%	
35) Dibromofluoromethane	6.64	113	58086	51.83	ug/l	-0.03
Spiked Amount			Recovery	=	103.66%	
50) Toluene-d8	10.16	98	95933	36.66	ug/l	-0.03
Spiked Amount			Recovery	=	73.32%	
62) 4-Bromofluorobenzene	13.34	95	45483	34.58	ug/l	-0.02
Spiked Amount			Recovery	=	69.16%	

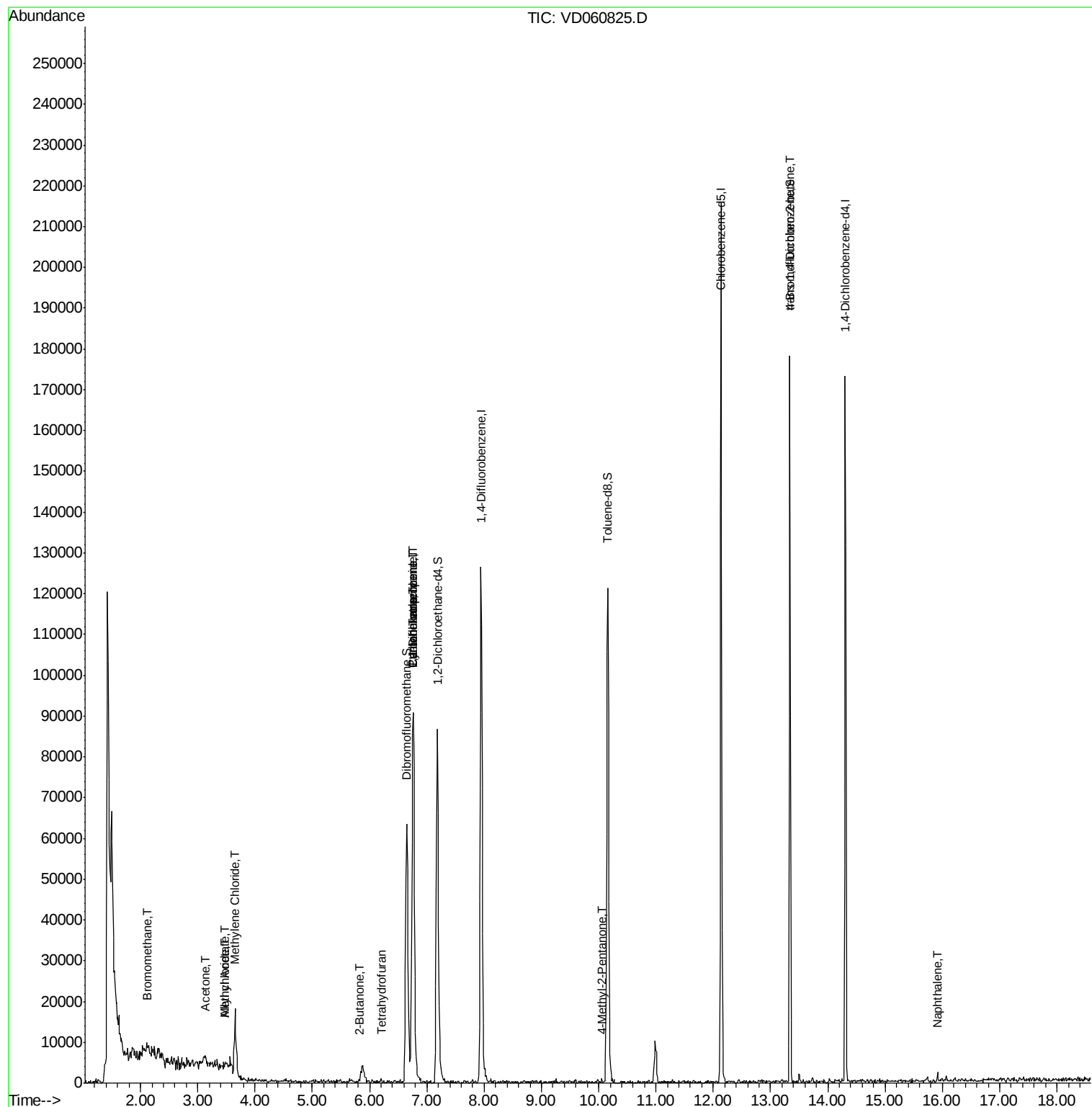
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.13	94	234	1.180	ug/l #	1
13) Acrolein	3.04	56	183	Below Cal	#	9
14) Allyl chloride	3.48	41	1070	1.074	ug/l #	78
16) Acetone	3.12	43	5046	28.038	ug/l #	59
18) Methyl Acetate	3.48	43	3550	9.950	ug/l #	63
20) Methylene Chloride	3.65	84	7957	5.942	ug/l	85
25) 2-Butanone	5.82	43	764	3.317	ug/l #	59
29) Tetrahydrofuran	6.20	42	211	1.907	ug/l #	33
31) Cyclohexane	6.75	56	2489	2.176	ug/l #	32
36) 1,1-Dichloropropene	6.76	75	7500	5.376	ug/l #	47
38) Carbon Tetrachloride	6.75	117	9953	5.689	ug/l #	13
51) 4-Methyl-2-Pentanone	10.05	43	755	1.435	ug/l #	39
81) trans-1,4-Dichloro-2-buten	13.34	75	25387	162.482	ug/l #	1
95) Naphthalene	15.92	128	1527	1.154	ug/l #	75

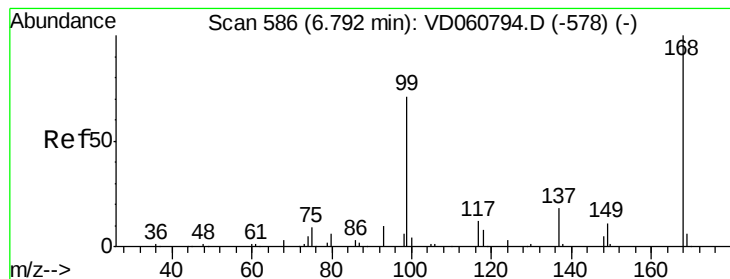
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 29 13:53:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.03 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA_D

ClientSampleId :

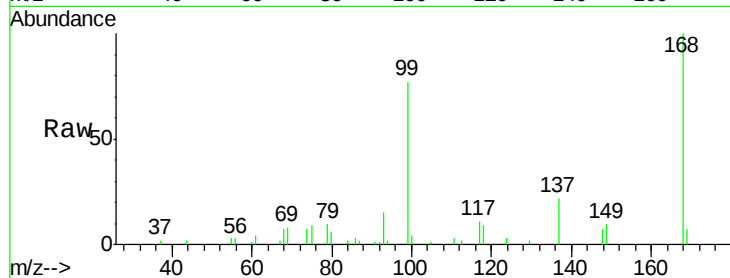
A0C4-SS1RE

Tot Ion:168 Resp: 81278

Ion Ratio Lower Upper

168 100

99 76.9 59.2 88.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.76

25000

20000

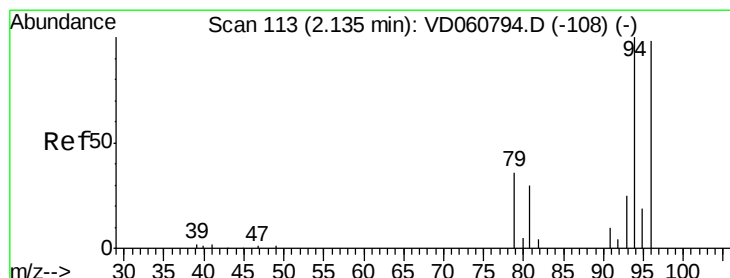
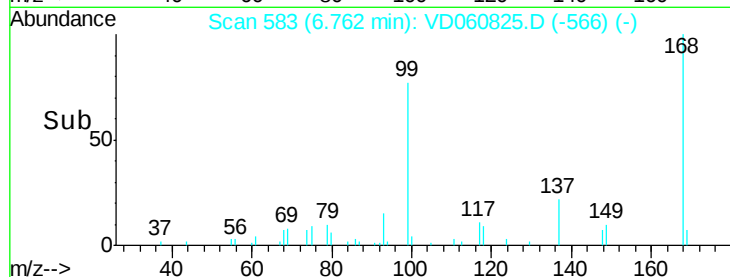
15000

10000

5000

0

Time--> 6.60 6.70 6.80 6.90



#5

Bromomethane

Concen: 1.180 ug/l

RT: 2.13 min Scan# 112

Delta R.T. -0.01 min

Lab File: VD060825.D

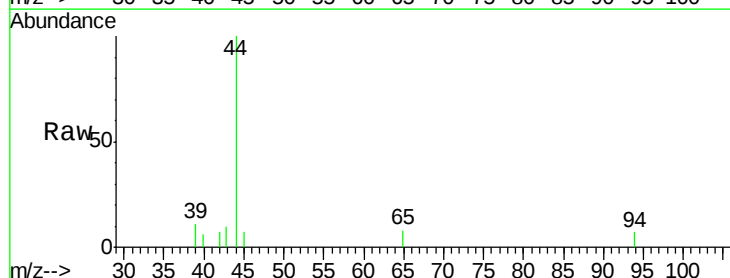
Acq: 1 Feb 2019 18:01

Tgt Ion: 94 Resp: 234

Ion Ratio Lower Upper

94 100

96 0.0 78.0 117.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.13

400

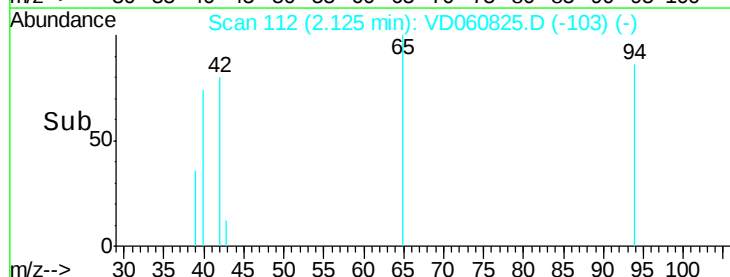
300

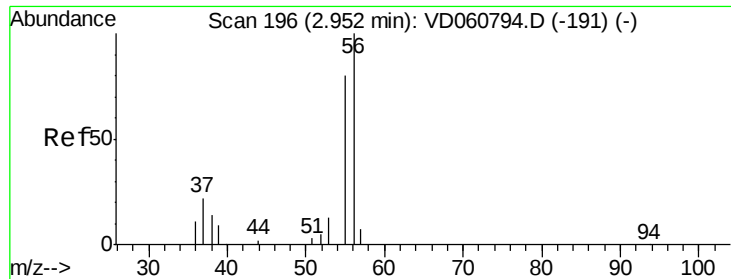
200

100

0

Time--> 2.10 2.12 2.14





#13

Acrolein

Concen: Below Cal

RT: 3.04 min Scan# 205

Delta R.T. 0.09 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA_D

ClientSampleId :

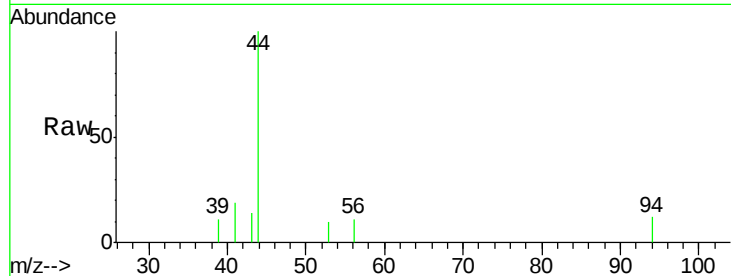
A0C4-SS1RE

Tot Ion: 56 Resp: 183

Ion Ratio Lower Upper

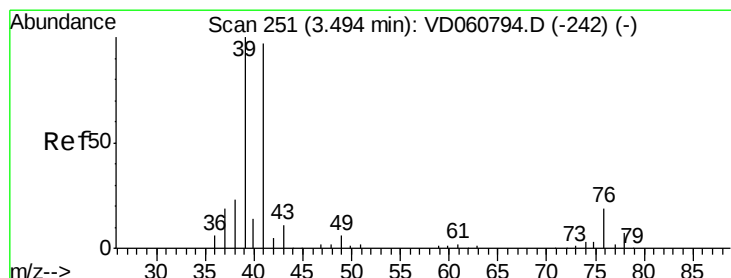
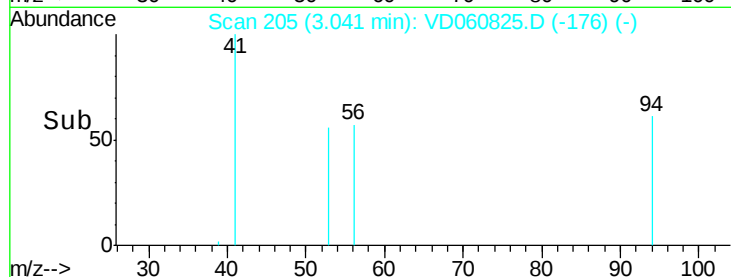
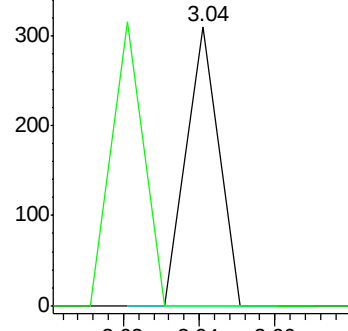
56 100

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



#14

Allyl chloride

Concen: 1.074 ug/l

RT: 3.48 min Scan# 250

Delta R.T. -0.01 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

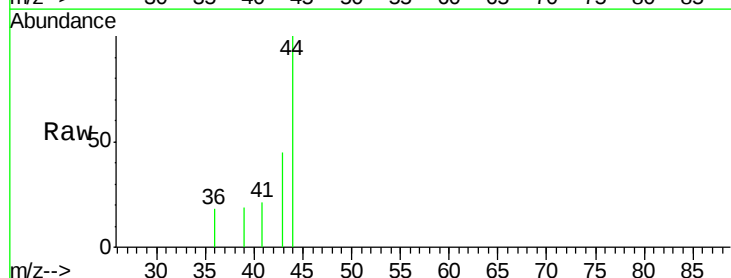
Tgt Ion: 41 Resp: 1070

Ion Ratio Lower Upper

41 100

39 87.3 82.6 123.8

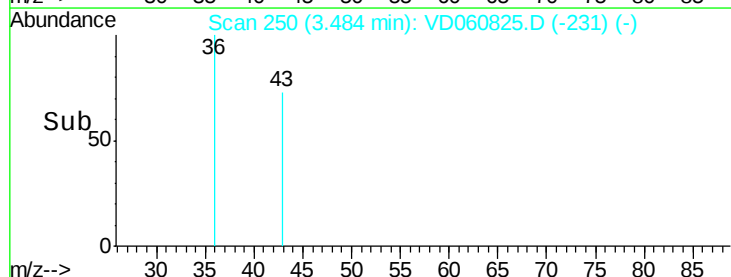
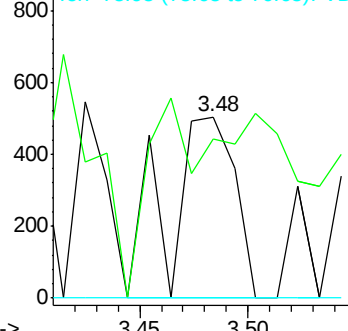
76 0.0 18.9 28.3#

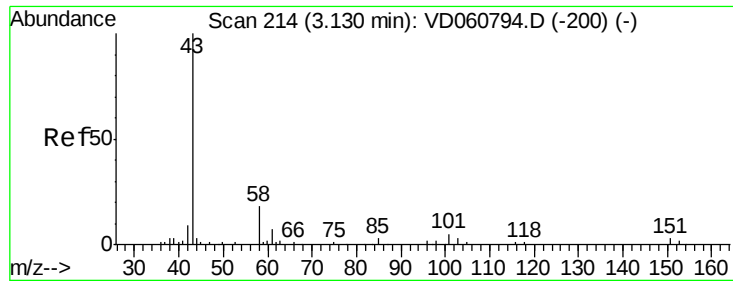


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#16

Acetone

Concen: 28.038 ug/l

RT: 3.12 min Scan# 213

Delta R.T. -0.01 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA_D

ClientSampleId :

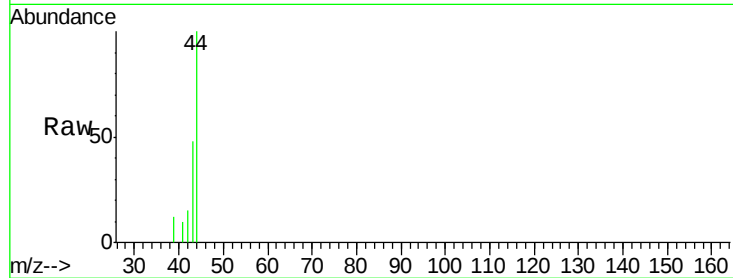
A0C4-SS1RE

Tot Ion: 43 Resp: 5046

Ion Ratio Lower Upper

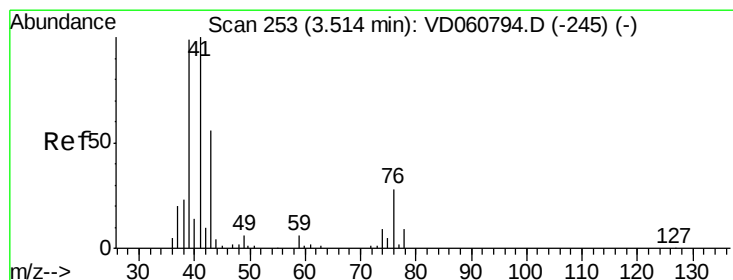
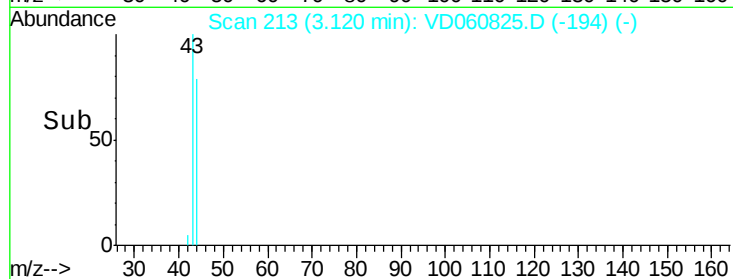
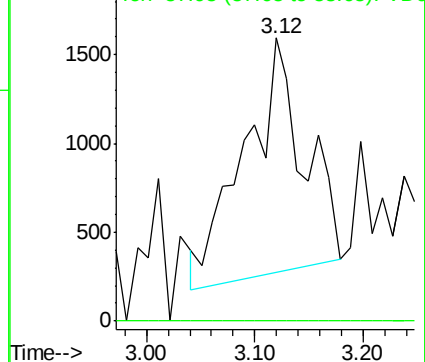
43 100

58 0.0 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 9.950 ug/l

RT: 3.48 min Scan# 250

Delta R.T. -0.03 min

Lab File: VD060825.D

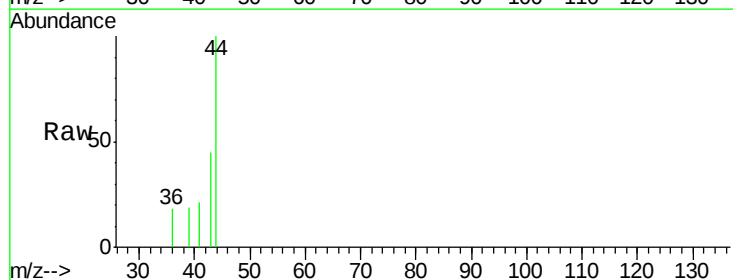
Acq: 1 Feb 2019 18:01

Tgt Ion: 43 Resp: 3550

Ion Ratio Lower Upper

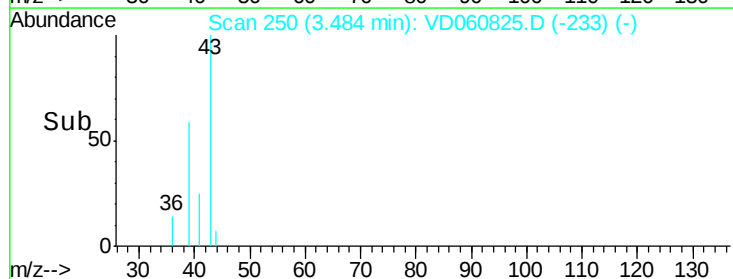
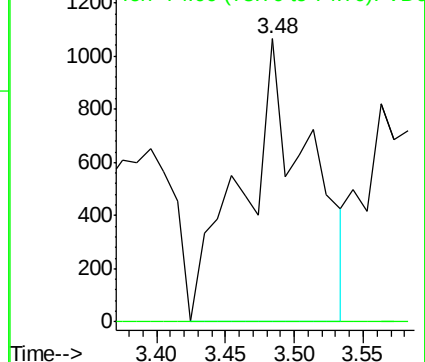
43 100

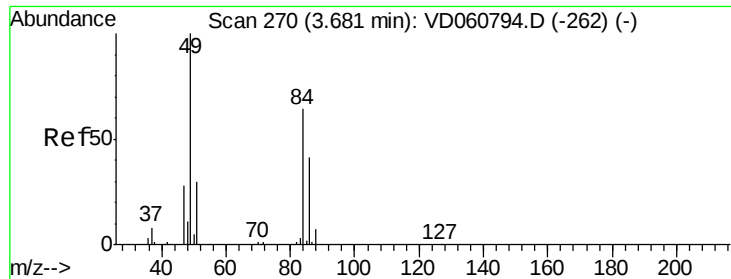
74 0.0 12.5 18.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

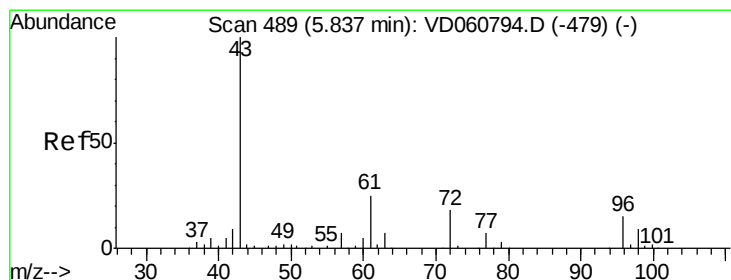
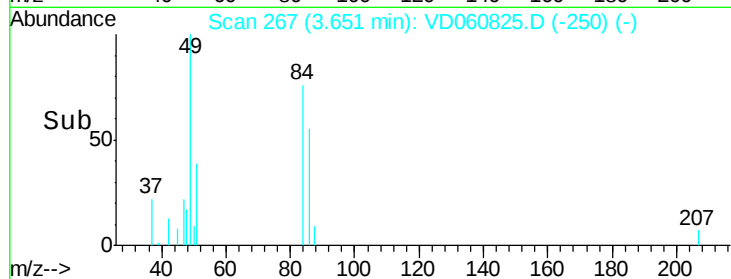
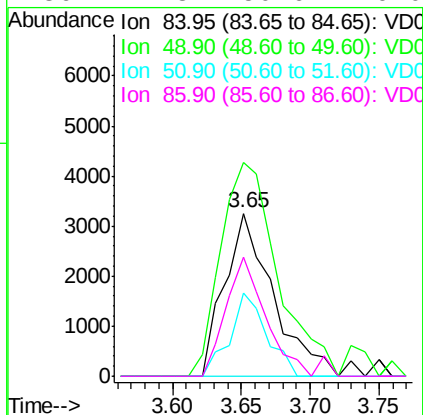
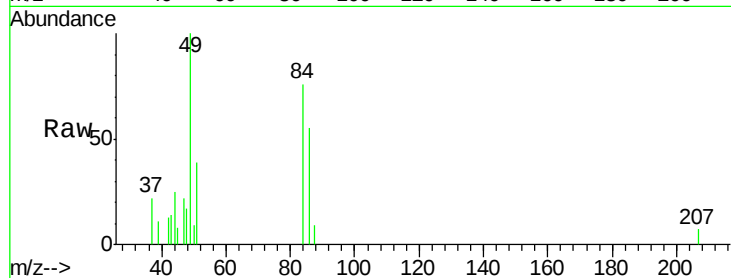




#20
Methvlene Chloride
Concen: 5.942 ug/l
RT: 3.65 min Scan# 267
Delta R.T. -0.03 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

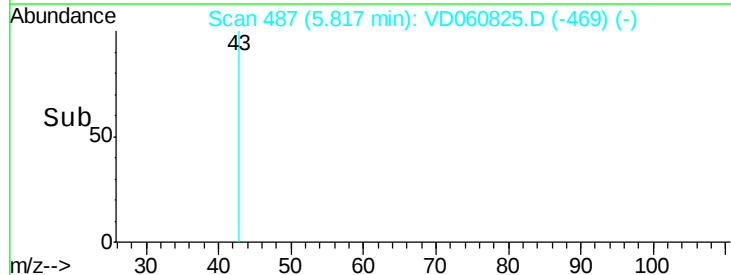
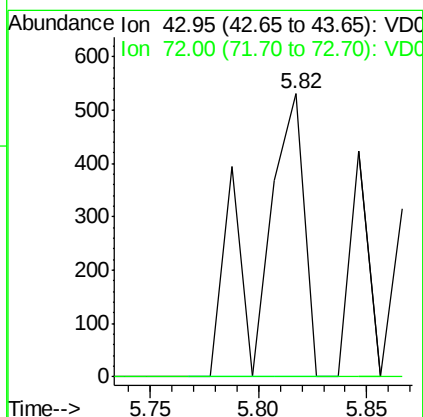
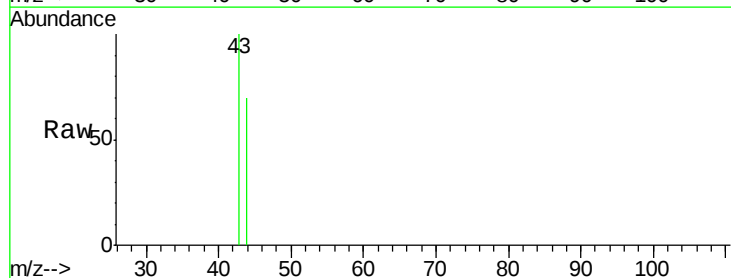
Instrument :
MSVOA_D
ClientSampleId :
A0C4-SS1RE

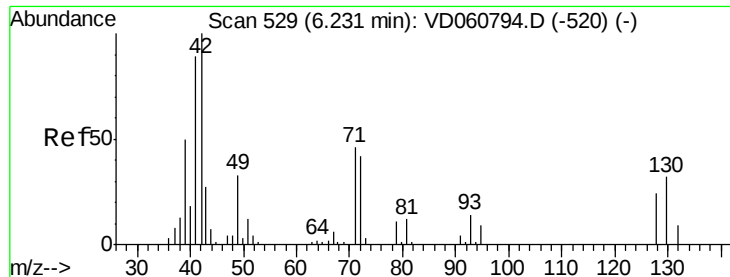
Tot Ion: 84 Resp: 7957
Ion Ratio Lower Upper
84 100
49 131.2 124.2 186.2
51 51.4 38.1 57.1
86 72.8 50.6 76.0



#25
2-Butanone
Concen: 3.317 ug/l
RT: 5.82 min Scan# 487
Delta R.T. -0.02 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

Tgt Ion: 43 Resp: 764
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#

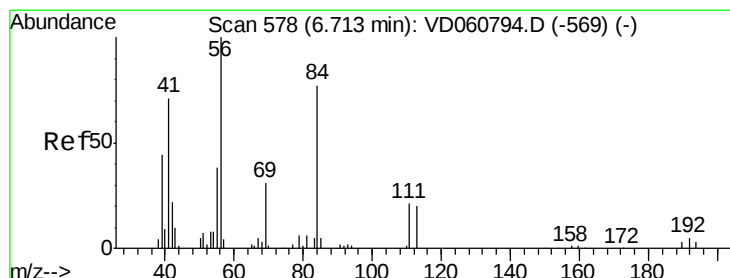
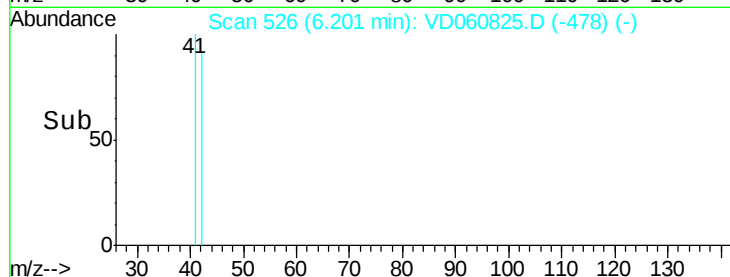
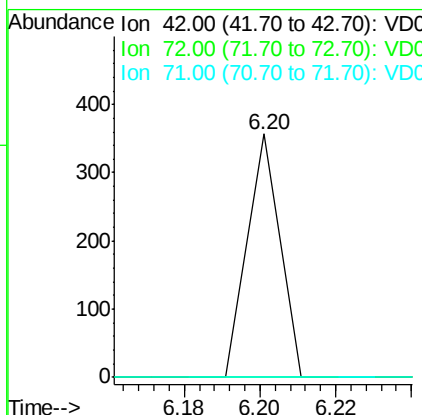
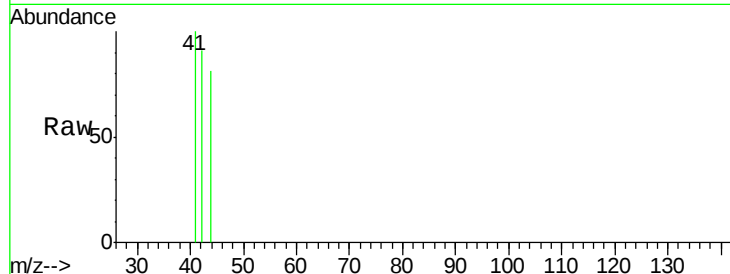




#29
Tetrahydrofuran
Concen: 1.907 ug/l
RT: 6.20 min Scan# 526
Delta R.T. -0.03 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

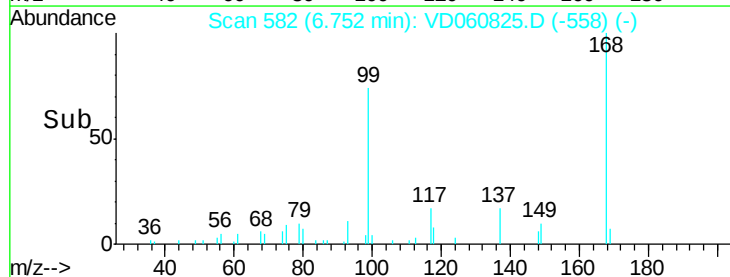
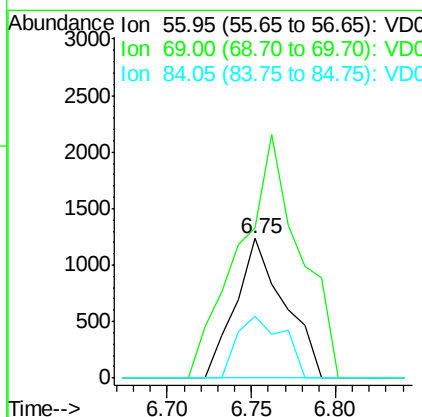
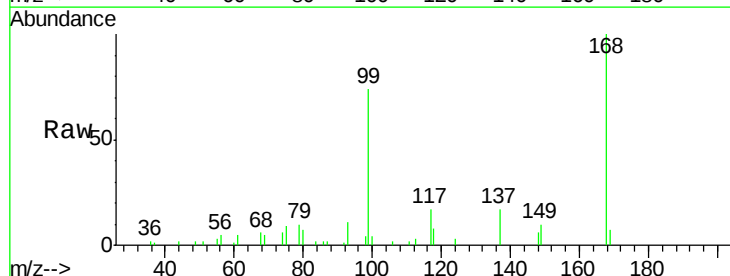
Instrument :
MSVOA_D
ClientSampleId :
A0C4-SS1RE

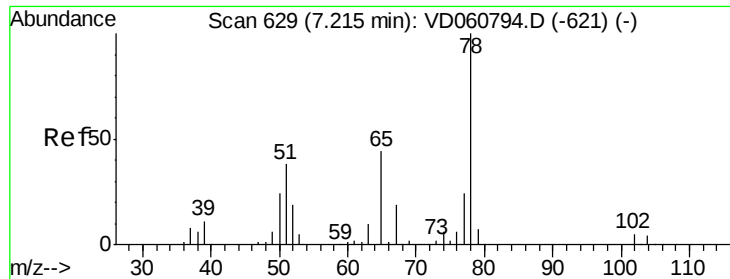
Tot Ion: 42 Resp: 211
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 34.6 52.0#



#31
Cyclohexane
Concen: 2.176 ug/l
RT: 6.75 min Scan# 582
Delta R.T. 0.04 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

Tgt Ion: 56 Resp: 2489
Ion Ratio Lower Upper
56 100
69 107.5 25.1 37.7#
84 44.1 63.9 95.9#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.19 min Scan# 626

Delta R.T. -0.03 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA_D

ClientSampleId :

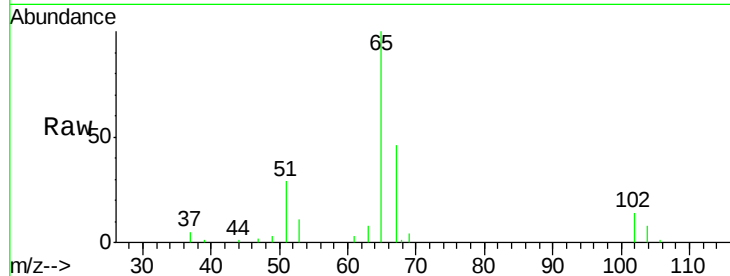
A0C4-SS1RE

Tot Ion: 65 Resp: 108049

Ion Ratio Lower Upper

65 100

67 45.8 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.19

40000

30000

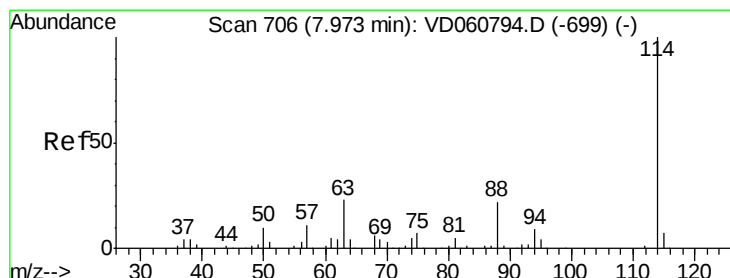
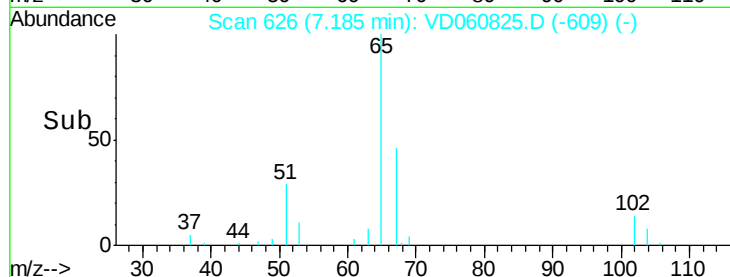
20000

10000

0

7.10 7.20 7.30

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 703

Delta R.T. -0.03 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

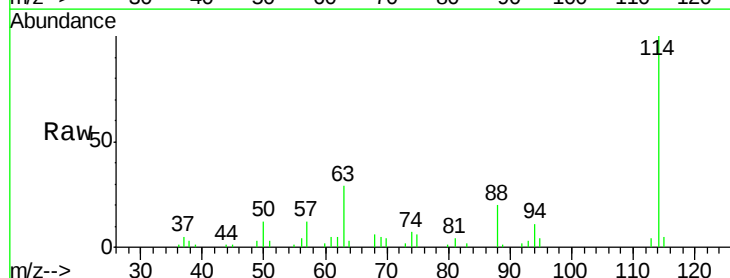
Tgt Ion: 114 Resp: 116853

Ion Ratio Lower Upper

114 100

63 29.2 0.0 46.6

88 19.9 0.0 44.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

7.94

60000

50000

40000

30000

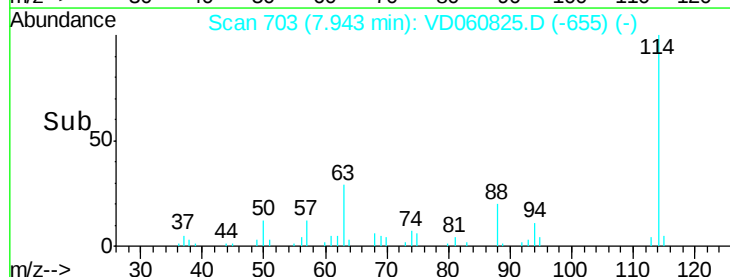
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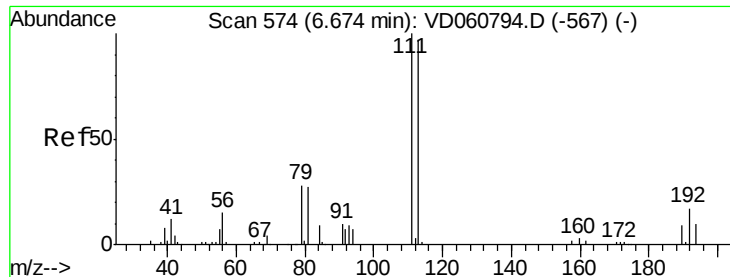
10000

0

7.80 7.90 8.00 8.10

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.64 min Scan# 571

Delta R.T. -0.03 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA_D

ClientSampleId :

A0C4-SS1RE

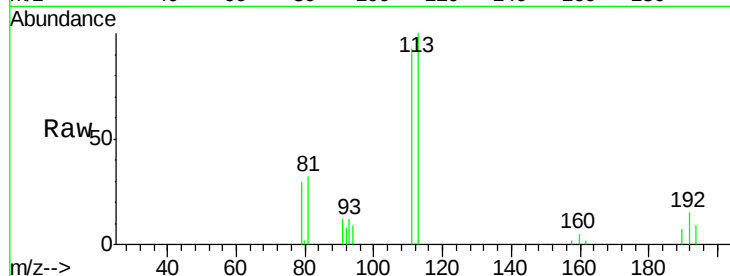
Tot Ion:113 Resp: 58086

Ion Ratio Lower Upper

113 100

111 93.2 82.3 123.5

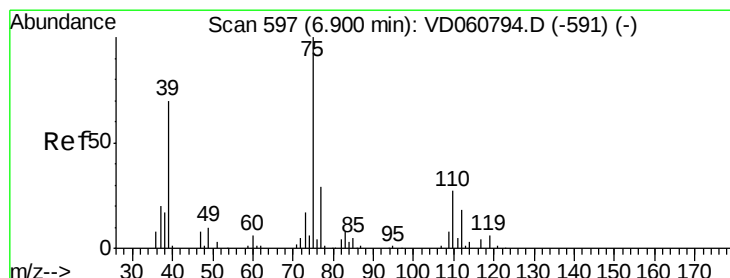
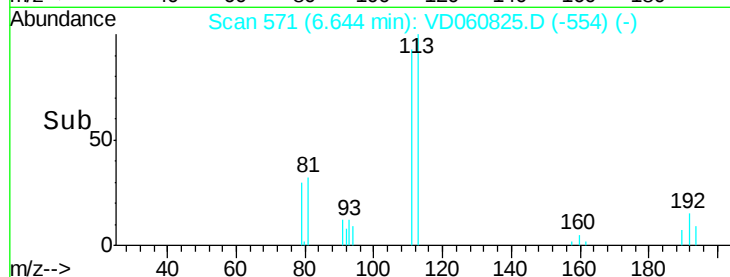
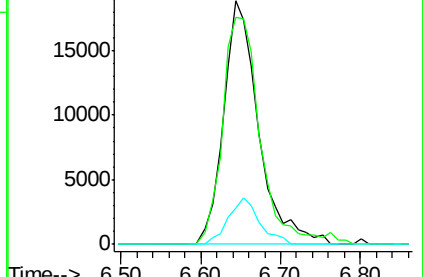
192 14.7 14.4 21.6



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: 5.376 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.14 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

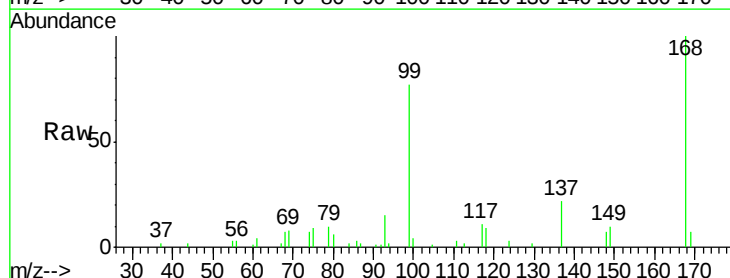
Tgt Ion: 75 Resp: 7500

Ion Ratio Lower Upper

75 100

110 0.0 13.5 40.4#

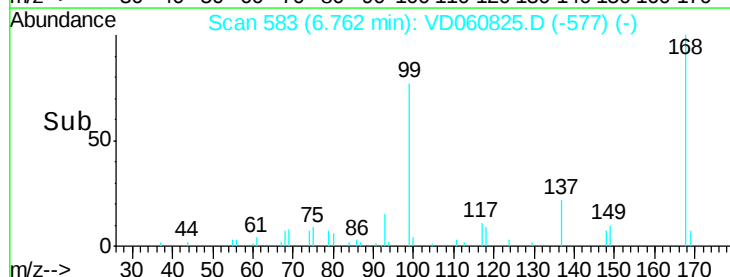
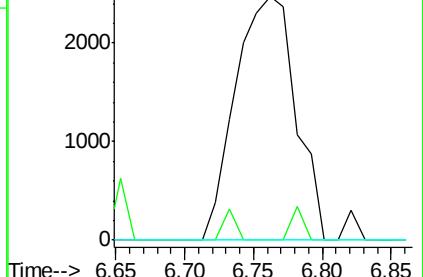
77 0.0 23.4 35.2#

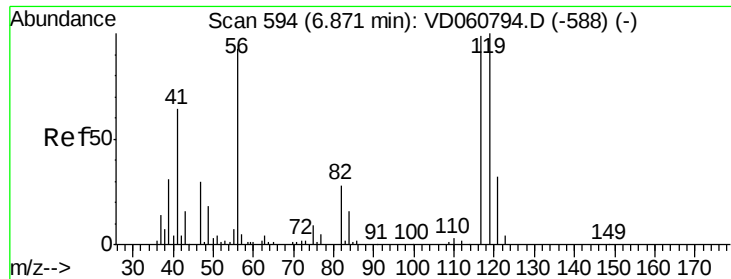


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

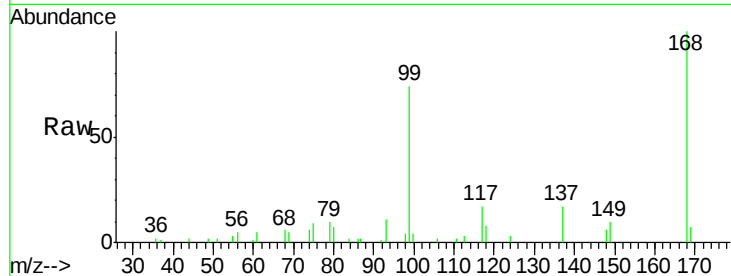




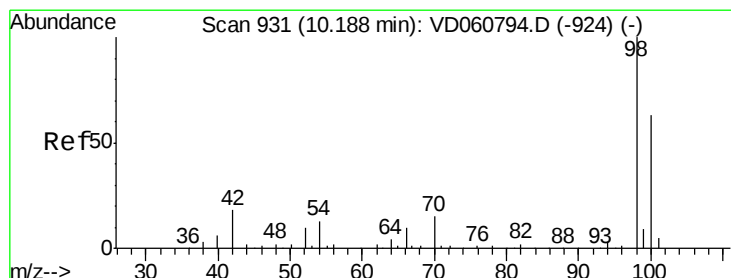
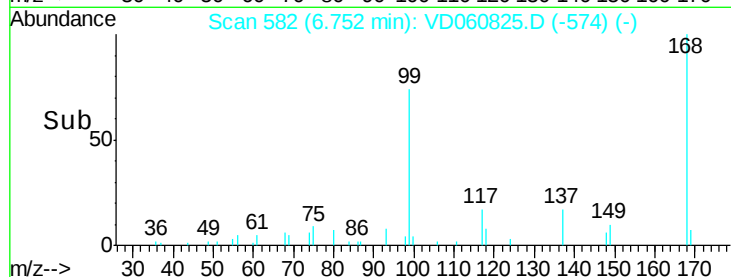
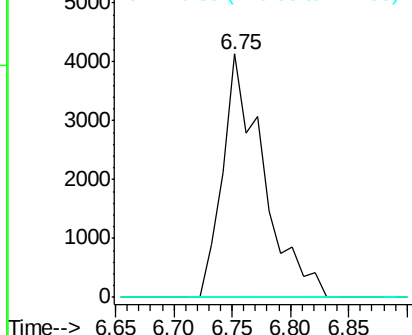
#38
Carbon Tetrachloride
Concen: 5.689 ug/l
RT: 6.75 min Scan# 582
Delta R.T. -0.12 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

Instrument :
MSVOA_D
ClientSampleId :
A0C4-SS1RE

Tot Ion:117 Resp: 9953
Ion Ratio Lower Upper
117 100
119 0.0 75.6 113.4#
121 0.0 23.4 35.2#

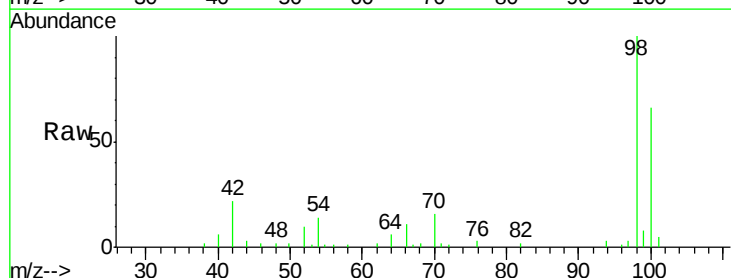


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

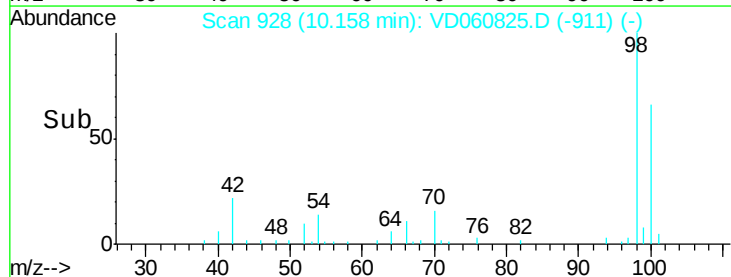
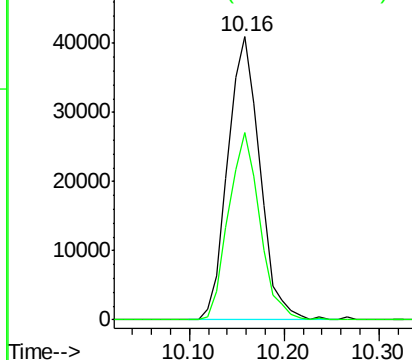


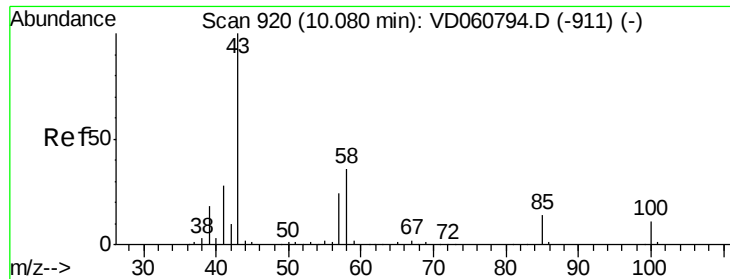
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.16 min Scan# 928
Delta R.T. -0.03 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

Tgt Ion: 98 Resp: 95933
Ion Ratio Lower Upper
98 100
100 66.0 51.0 76.6



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

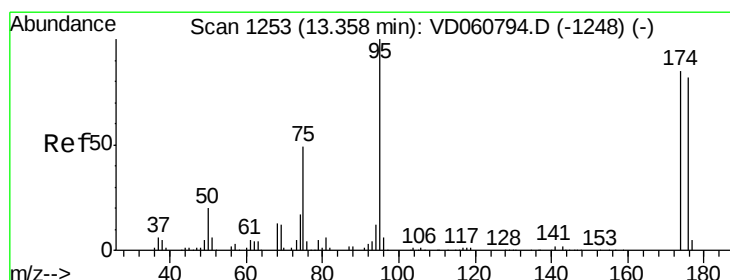
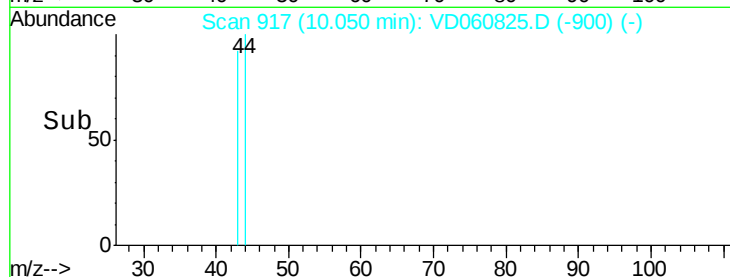
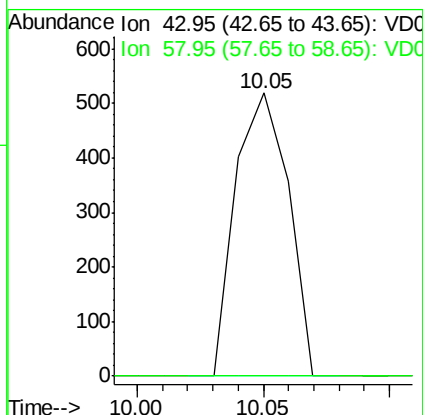
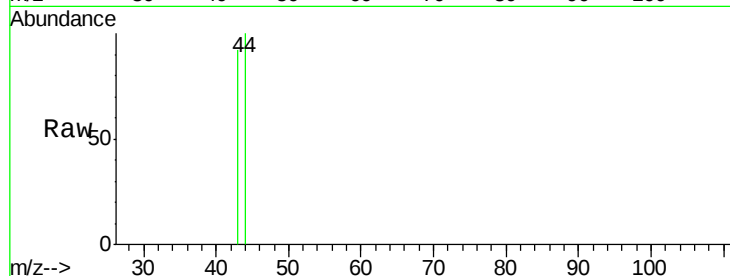




#51
4-Methyl-2-Pentanone
Concen: 1.435 ug/l
RT: 10.05 min Scan# 917
Delta R.T. -0.03 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

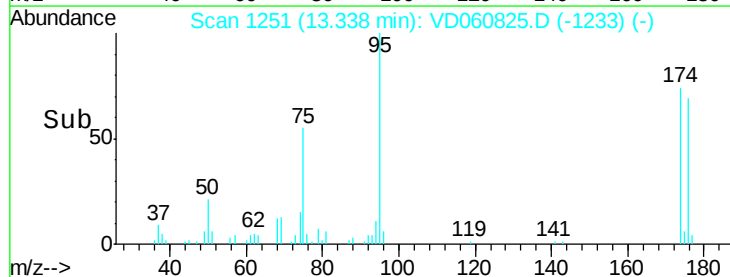
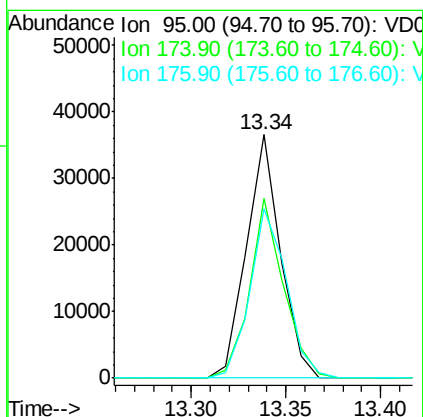
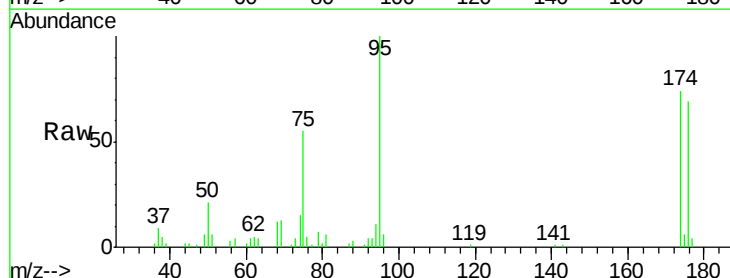
Instrument :
MSVOA_D
ClientSampleId :
A0C4-SS1RE

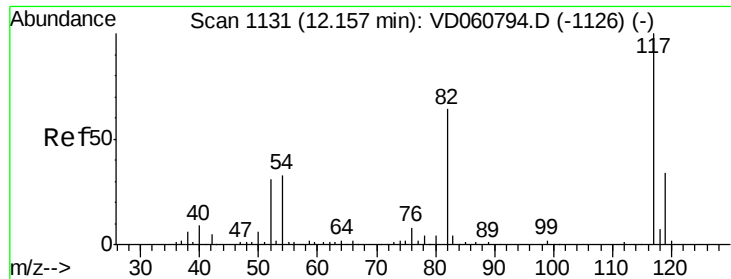
Tot Ion: 43 Resp: 755
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.34 min Scan# 1251
Delta R.T. -0.02 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

Tgt Ion: 95 Resp: 45483
Ion Ratio Lower Upper
95 100
174 73.8 0.0 169.6
176 69.4 0.0 163.8

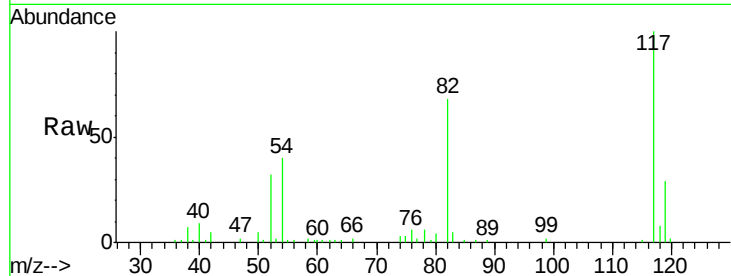




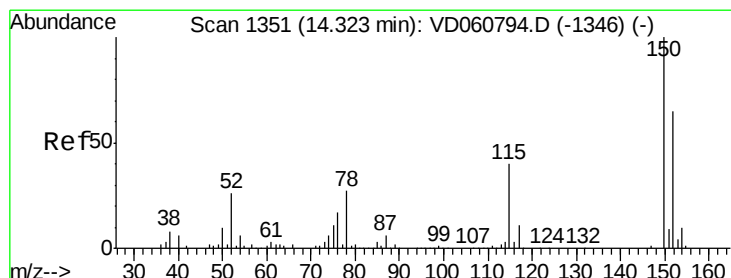
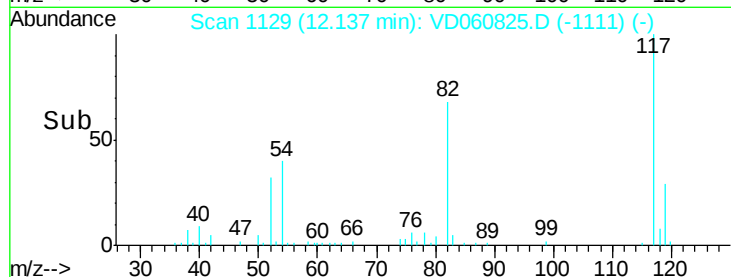
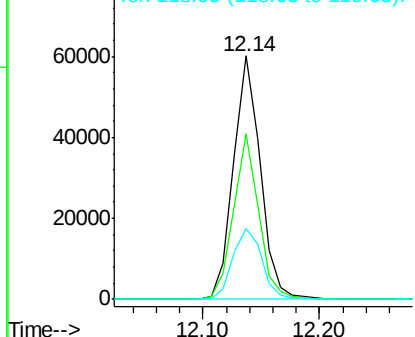
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.14 min Scan# 1129
Delta R.T. -0.02 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

Instrument :
MSVOA_D
ClientSampleId :
A0C4-SS1RE

Tot Ion:117 Resp: 96228
Ion Ratio Lower Upper
117 100
82 68.0 51.5 77.3
119 29.1 27.1 40.7

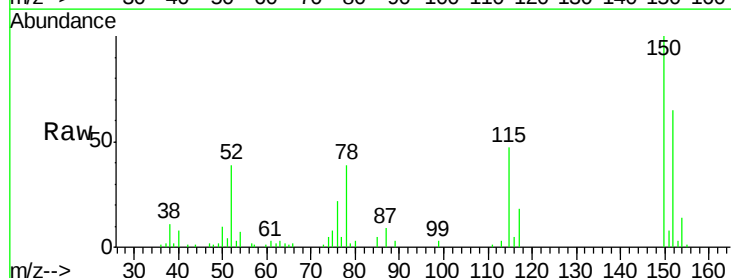


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

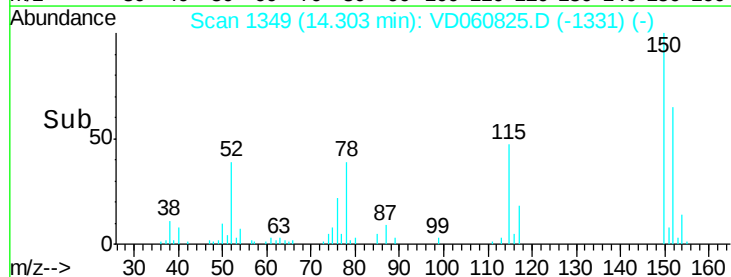
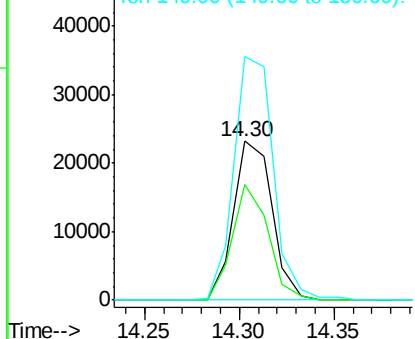


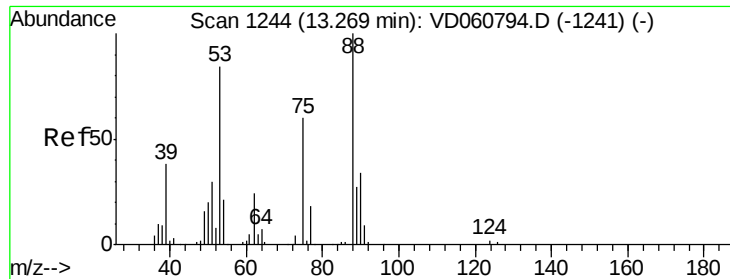
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.30 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VD060825.D
Acq: 1 Feb 2019 18:01

Tgt Ion:152 Resp: 32682
Ion Ratio Lower Upper
152 100
115 72.7 31.6 95.0
150 153.3 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: 162.482 ug/l

RT: 13.34 min Scan# 1251

Delta R.T. 0.07 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA_D

ClientSampleId :

A0C4-SS1RE

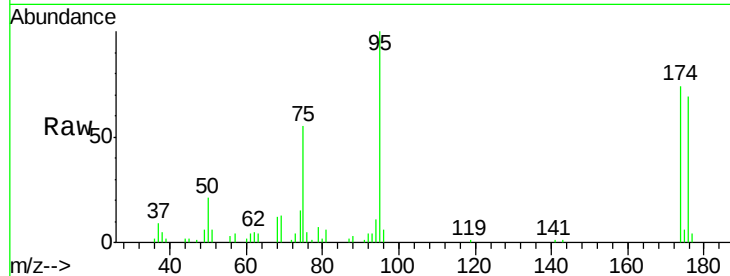
Tot Ion: 75 Resp: 25387

Ion Ratio Lower Upper

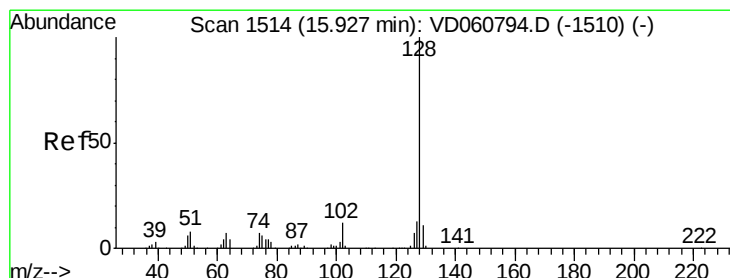
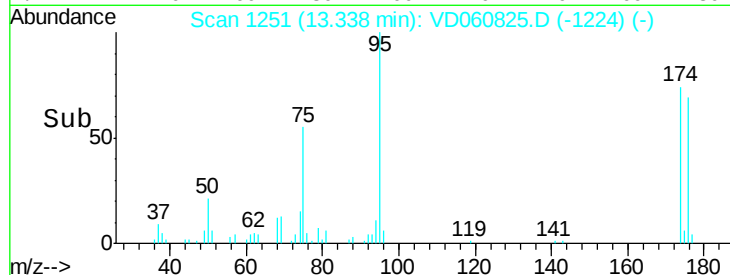
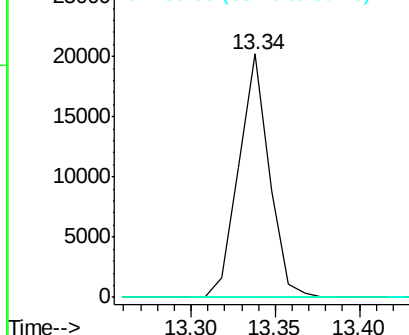
75 100

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: 1.154 ug/l

RT: 15.92 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

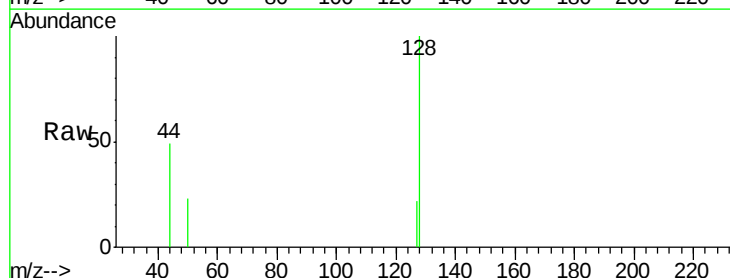
Tgt Ion: 128 Resp: 1527

Ion Ratio Lower Upper

128 100

127 21.9 10.4 15.6#

129 0.0 8.7 13.1#



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

