

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020119\
 Data File : VD060824.D
 Acq On : 1 Feb 2019 17:32
 Operator : VA/AP
 Sample : K1297-05RE
 Misc : 5.22g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 A0C17-SS2RE

Quant Time: Feb 02 00:25:50 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	128970	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.94	114	183230	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.14	117	145637	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.30	152	53910	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.18	65	141855	71.74	ug/l	-0.04
Spiked Amount			Recovery	=	143.48%	
35) Dibromofluoromethane	6.64	113	83464	47.50	ug/l	-0.03
Spiked Amount			Recovery	=	95.00%	
50) Toluene-d8	10.16	98	142347	34.69	ug/l	-0.03
Spiked Amount			Recovery	=	69.38%	
62) 4-Bromofluorobenzene	13.34	95	69794	33.84	ug/l	-0.02
Spiked Amount			Recovery	=	67.68%	

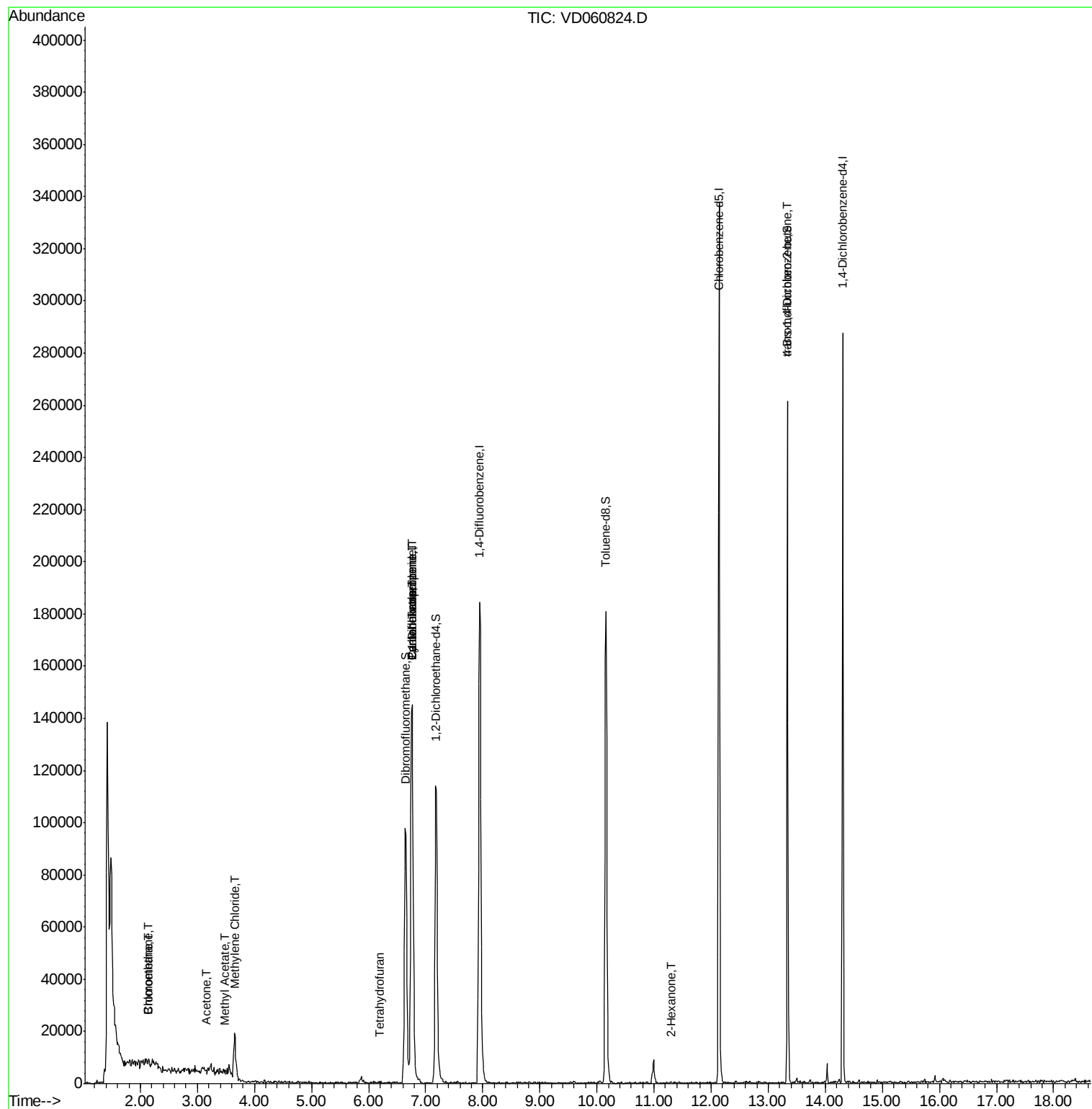
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	451	1.433	ug/l #	1
6) Chloroethane	2.15	64	191	3.048	ug/l #	37
13) Acrolein	2.92	56	385	Below Cal	#	9
16) Acetone	3.15	43	2064	7.227	ug/l #	59
18) Methyl Acetate	3.47	43	2800	4.946	ug/l #	63
20) Methylene Chloride	3.65	84	10932	4.455	ug/l #	84
29) Tetrahydrofuran	6.19	42	201	1.145	ug/l #	33
31) Cyclohexane	6.75	56	3239	1.785	ug/l #	1
36) 1,1-Dichloropropene	6.76	75	13288	6.074	ug/l #	47
38) Carbon Tetrachloride	6.76	117	15011	5.472	ug/l #	13
59) 2-Hexanone	11.30	43	947	1.527	ug/l #	27
81) trans-1,4-Dichloro-2-buten	13.34	75	35993	139.653	ug/l #	1

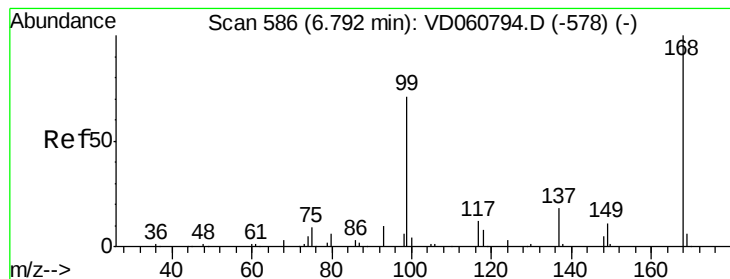
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 29 13:53:55 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.03 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

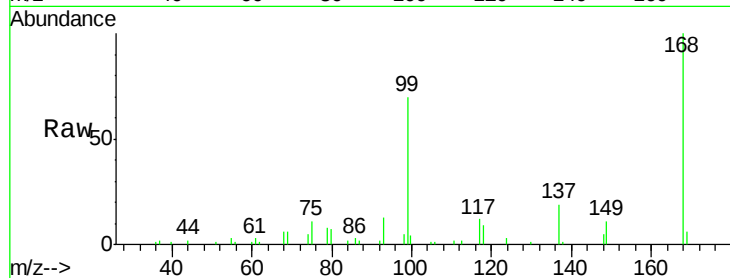
A0C17-SS2RE

Tot Ion:168 Resp: 128970

Ion Ratio Lower Upper

168 100

99 69.9 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

40000

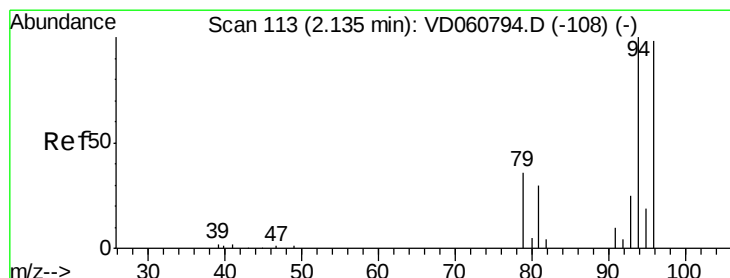
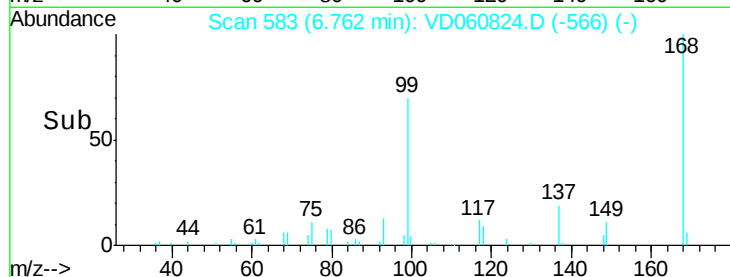
30000

20000

10000

0

Time--> 6.60 6.70 6.80 6.90



#5

Bromomethane

Concen: 1.433 ug/l

RT: 2.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VD060824.D

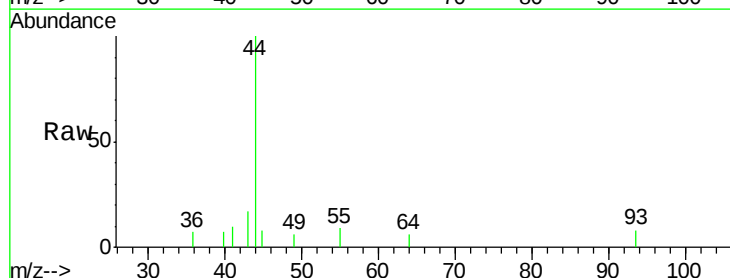
Acq: 1 Feb 2019 17:32

Tgt Ion: 94 Resp: 451

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

2.15

400

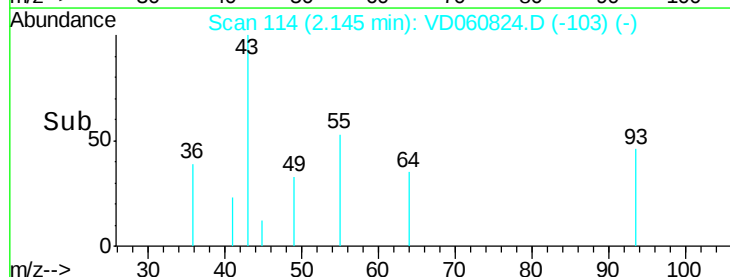
300

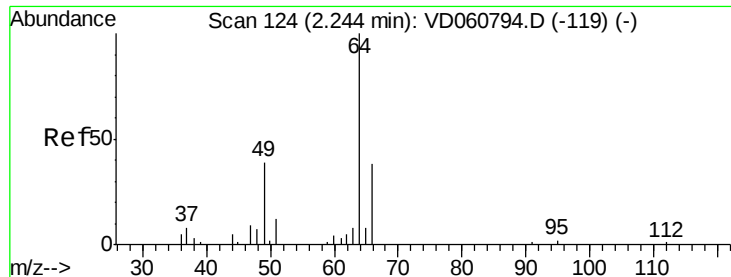
200

100

0

Time--> 2.12 2.14 2.16 2.18





#6

Chloroethane

Concen: 3.048 ug/l

RT: 2.15 min Scan# 114

Delta R.T. -0.10 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

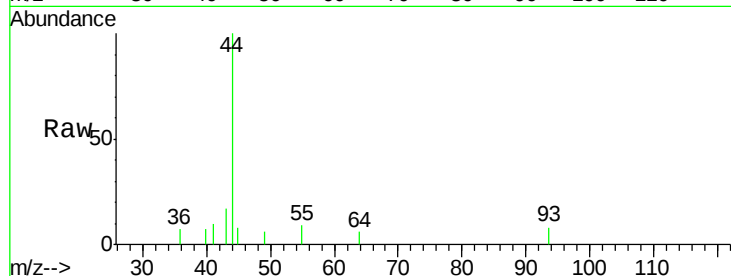
A0C17-SS2RE

Tot Ion: 64 Resp: 191

Ion Ratio Lower Upper

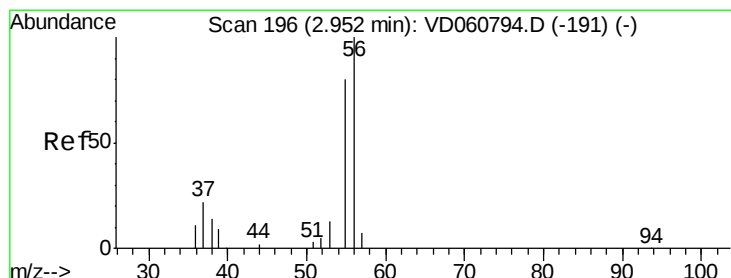
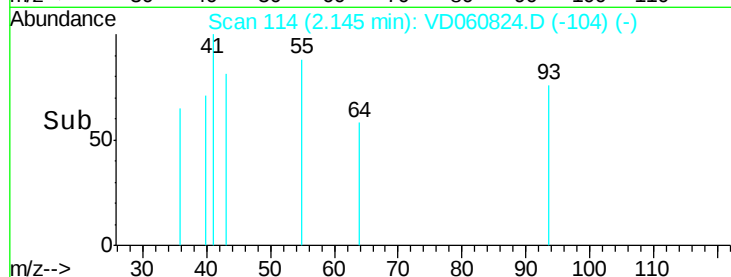
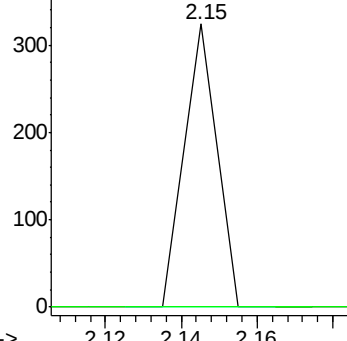
64 100

66 0.0 30.2 45.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#13

Acrolein

Concen: Below Cal

RT: 2.92 min Scan# 193

Delta R.T. -0.03 min

Lab File: VD060824.D

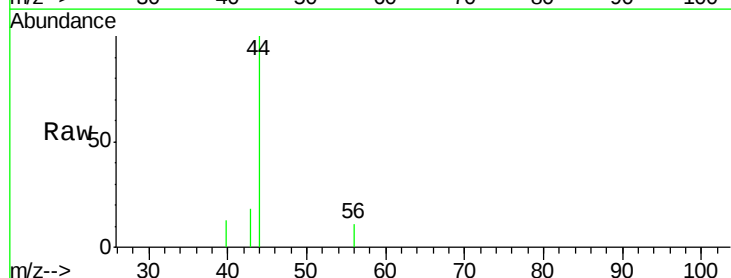
Acq: 1 Feb 2019 17:32

Tgt Ion: 56 Resp: 385

Ion Ratio Lower Upper

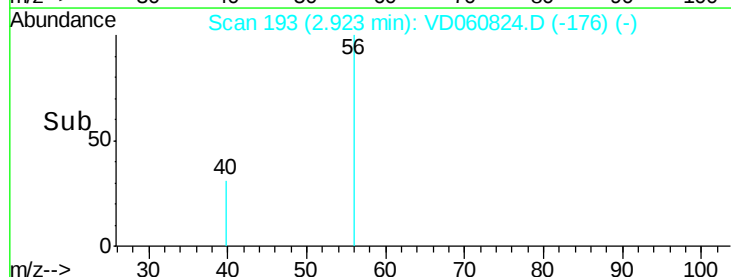
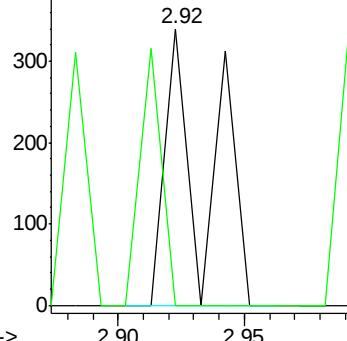
56 100

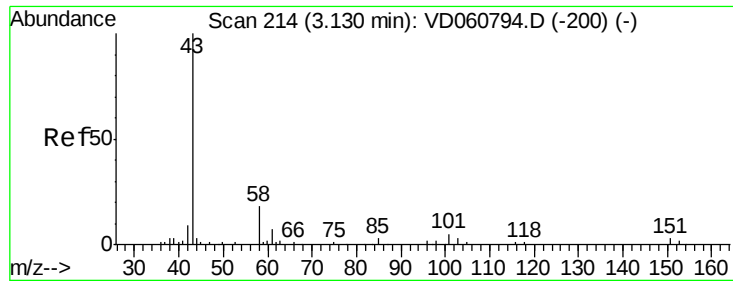
55 0.0 64.2 96.2#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 7.227 ug/l

RT: 3.15 min Scan# 216

Delta R.T. 0.02 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

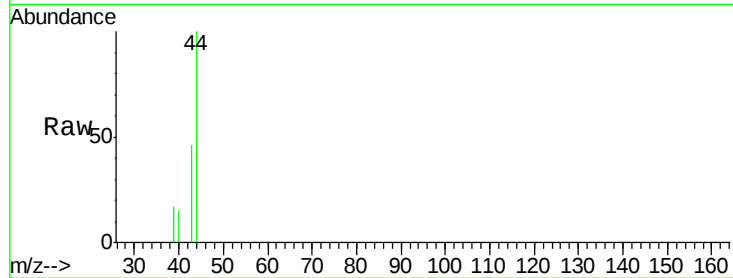
A0C17-SS2RE

Tot Ion: 43 Resp: 2064

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

1500

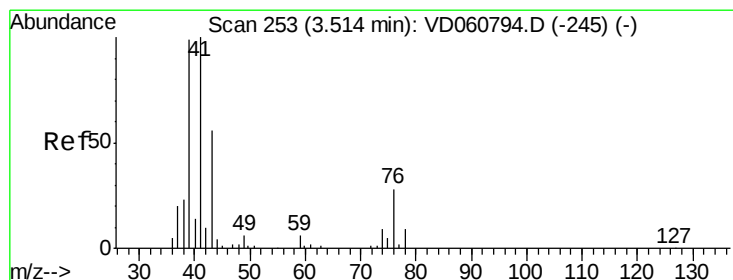
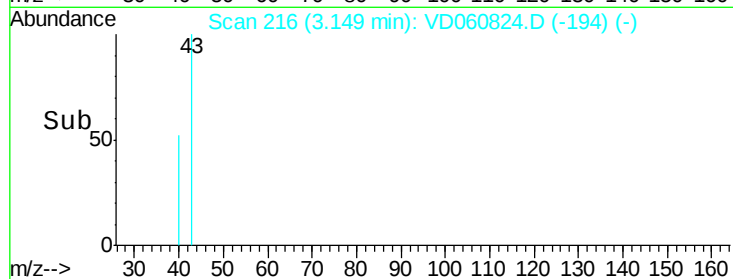
1000

500

0

3.10 3.12 3.14 3.16 3.18

Time-->



#18

Methyl Acetate

Concen: 4.946 ug/l

RT: 3.47 min Scan# 249

Delta R.T. -0.04 min

Lab File: VD060824.D

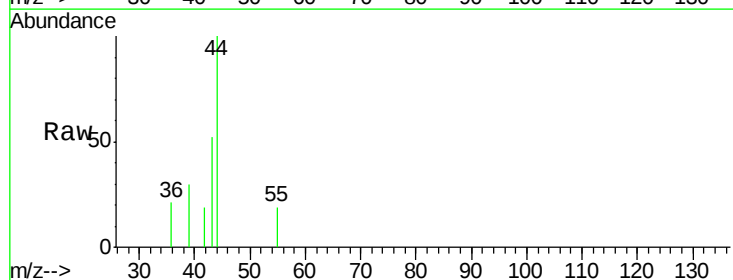
Acq: 1 Feb 2019 17:32

Tgt Ion: 43 Resp: 2800

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

1200

1000

800

600

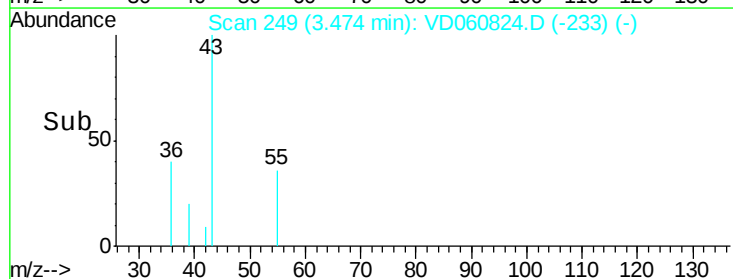
400

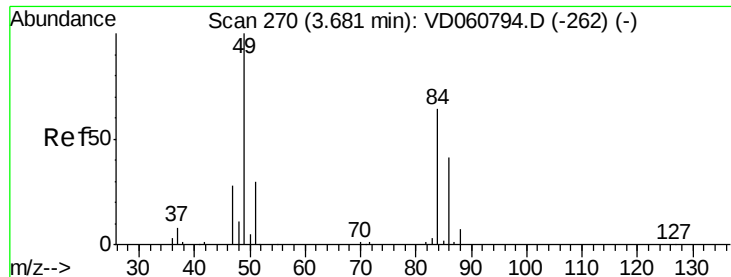
200

0

3.45 3.47 3.49 3.51 3.53 3.55

Time-->

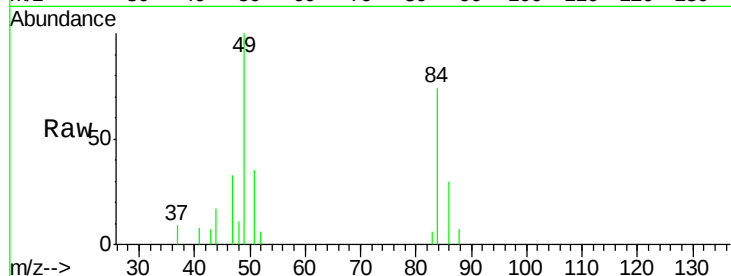




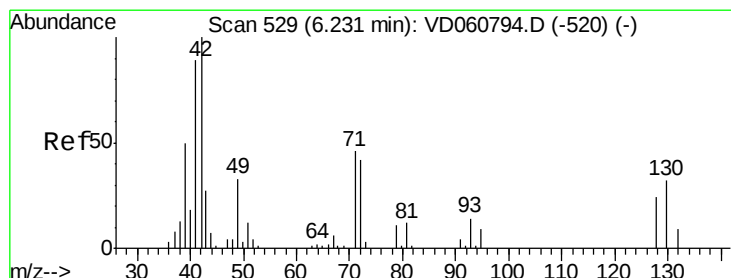
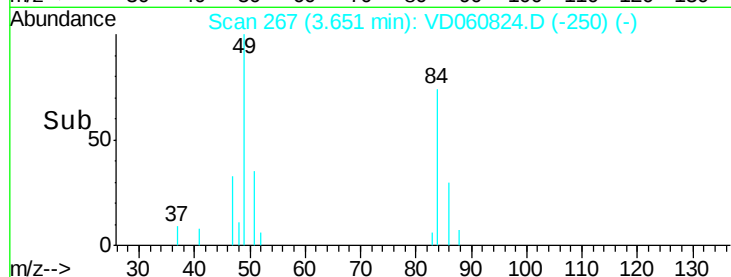
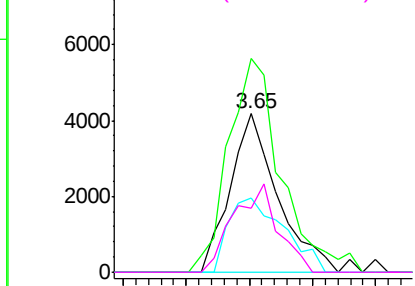
#20
Methvlene Chloride
Concen: 4.455 ug/l
RT: 3.65 min Scan# 267
Delta R.T. -0.03 min
Lab File: VD060824.D
Acq: 1 Feb 2019 17:32

Instrument :
MSVOA_D
ClientSampleId :
A0C17-SS2RE

Tot Ion: 84 Resp: 10932
Ion Ratio Lower Upper
84 100
49 134.6 124.2 186.2
51 47.2 38.1 57.1
86 40.4 50.6 76.0#

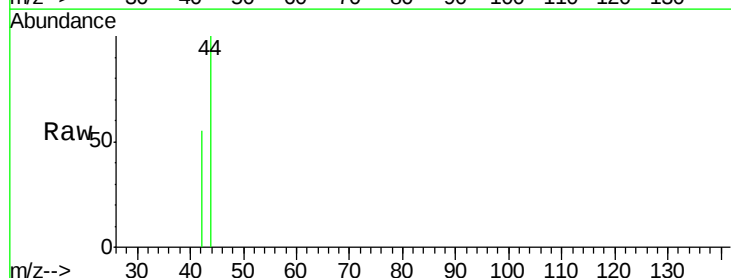


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

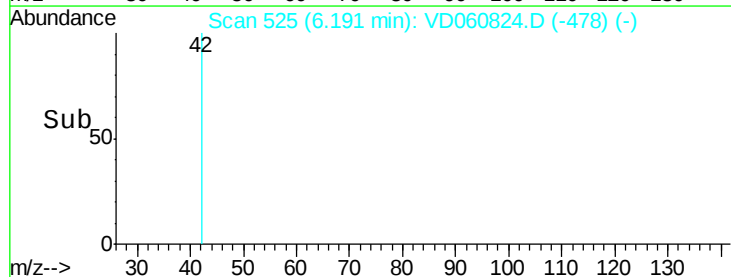
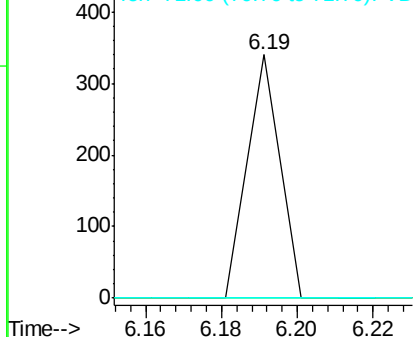


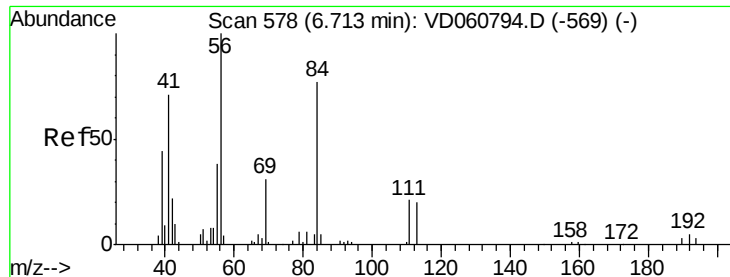
#29
Tetrahydrofuran
Concen: 1.145 ug/l
RT: 6.19 min Scan# 525
Delta R.T. -0.04 min
Lab File: VD060824.D
Acq: 1 Feb 2019 17:32

Tgt Ion: 42 Resp: 201
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 34.6 52.0#



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

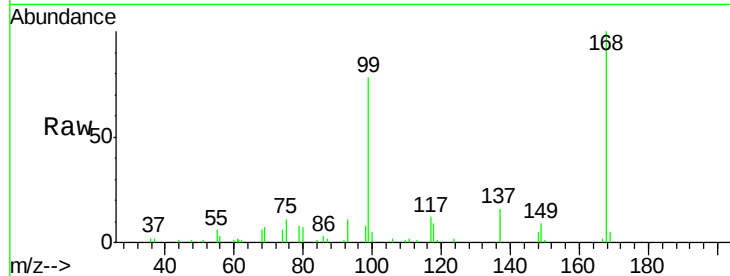




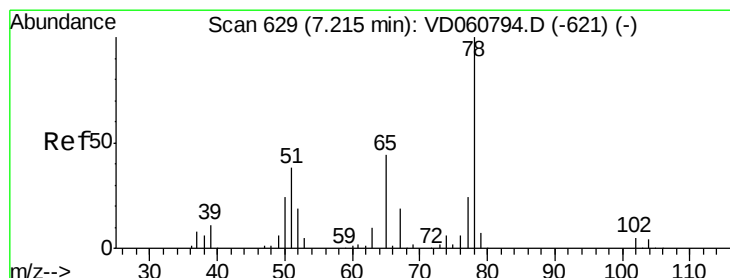
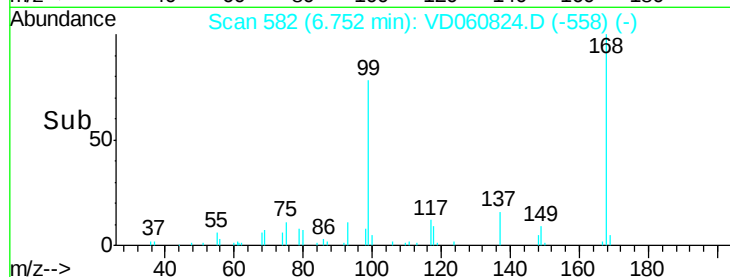
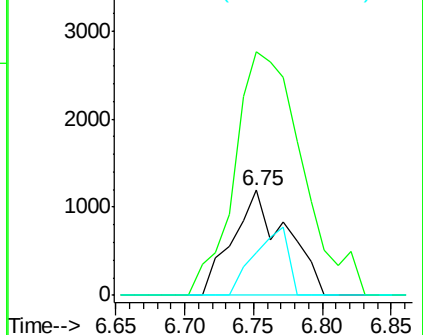
#31
Cyclohexane
Concen: 1.785 ug/l
RT: 6.75 min Scan# 582
Delta R.T. 0.04 min
Lab File: VD060824.D
Acq: 1 Feb 2019 17:32

Instrument :
MSVOA_D
ClientSampleId :
A0C17-SS2RE

Tot Ion: 56 Resp: 3239
Ion Ratio Lower Upper
56 100
69 231.7 25.1 37.7#
84 40.3 63.9 95.9#

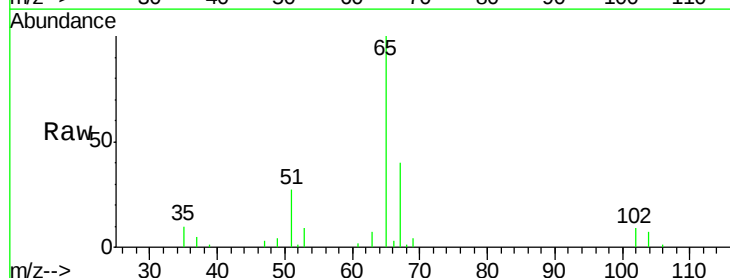


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

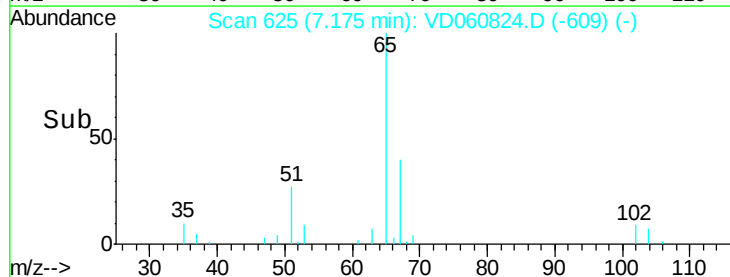
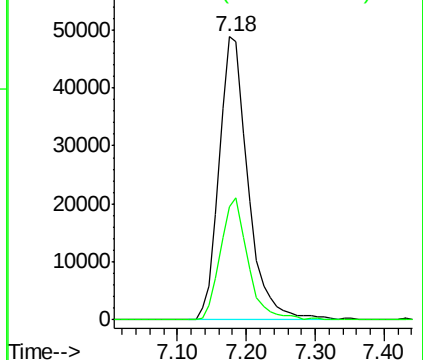


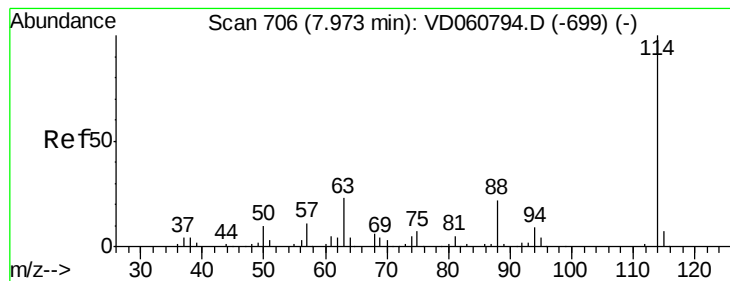
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.18 min Scan# 625
Delta R.T. -0.04 min
Lab File: VD060824.D
Acq: 1 Feb 2019 17:32

Tgt Ion: 65 Resp: 141855
Ion Ratio Lower Upper
65 100
67 40.0 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: 7.94 min Scan# 703

Delta R.T. -0.03 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

A0C17-SS2RE

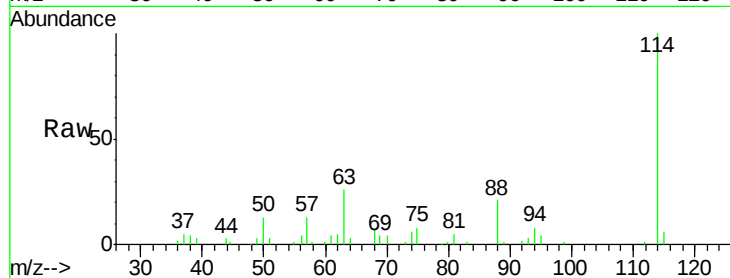
Tot Ion:114 Resp: 183230

Ion Ratio Lower Upper

114 100

63 26.1 0.0 46.6

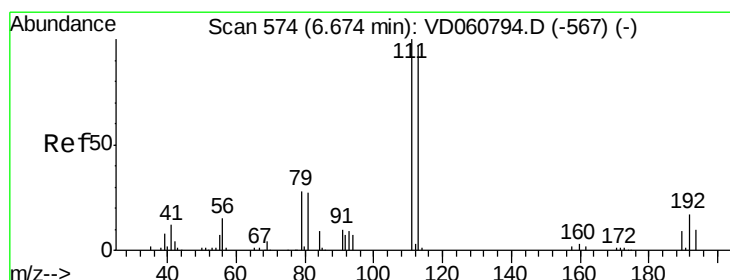
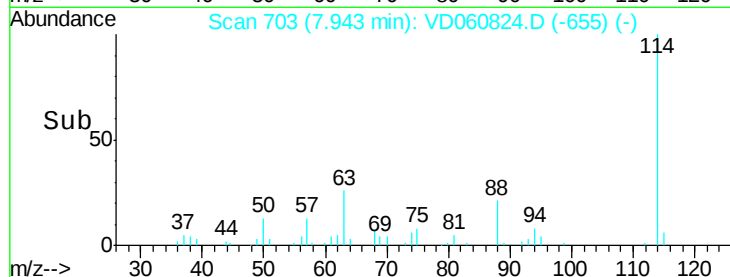
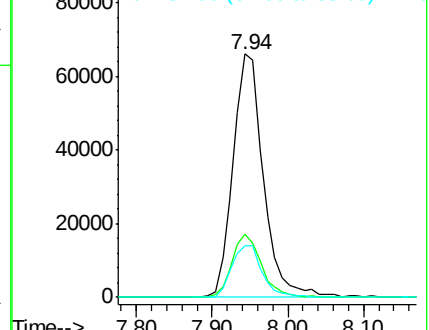
88 21.2 0.0 44.0



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: 6.64 min Scan# 571

Delta R.T. -0.03 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

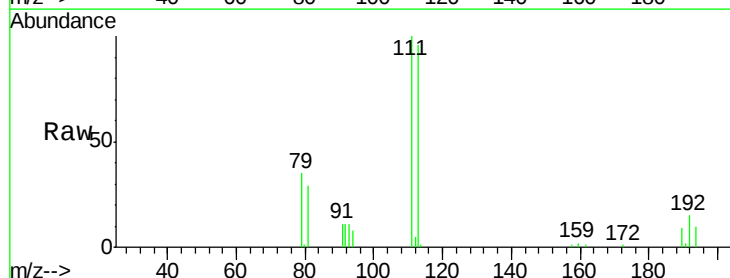
Tgt Ion:113 Resp: 83464

Ion Ratio Lower Upper

113 100

111 104.0 82.3 123.5

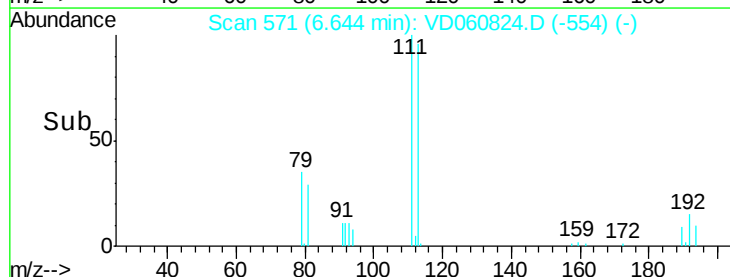
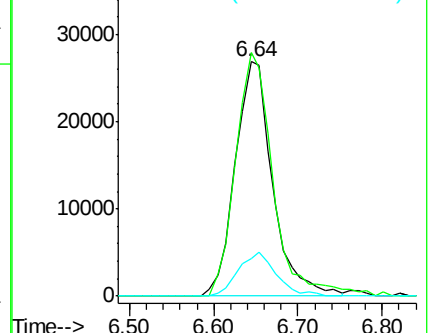
192 15.8 14.4 21.6

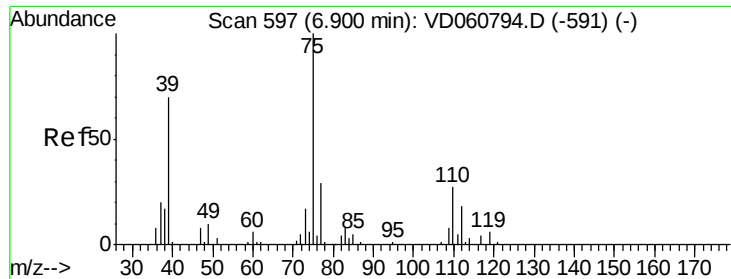


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.074 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.14 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

A0C17-SS2RE

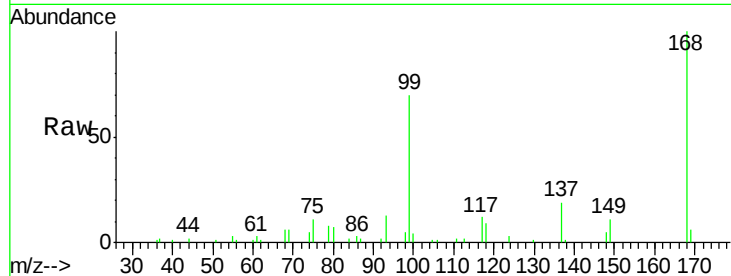
Tot Ion: 75 Resp: 13288

Ion Ratio Lower Upper

75 100

110 0.0 13.5 40.4#

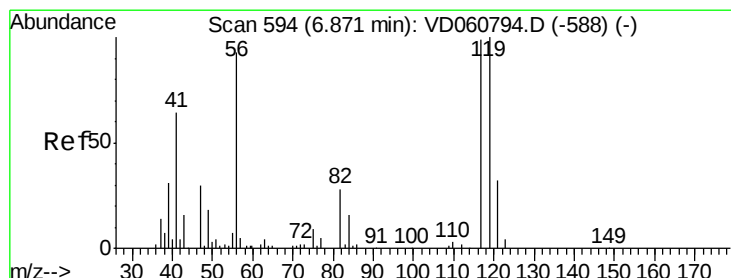
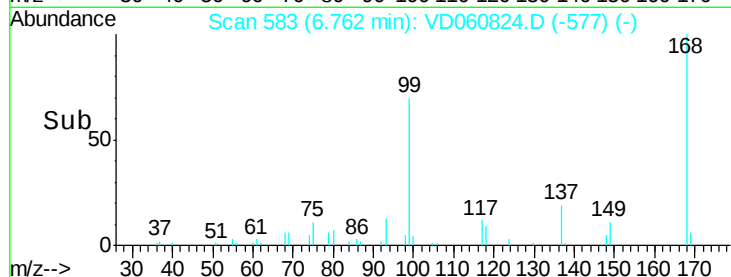
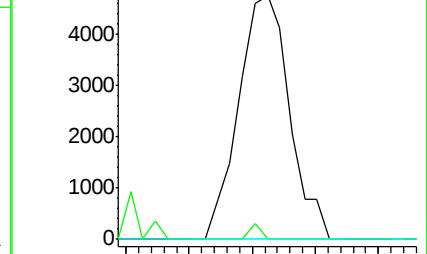
77 0.0 23.4 35.2#



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: 5.472 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.11 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

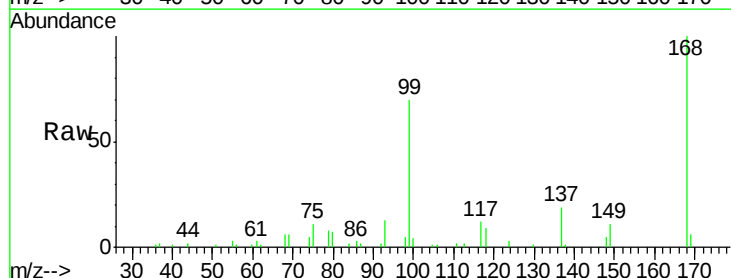
Tgt Ion: 117 Resp: 15011

Ion Ratio Lower Upper

117 100

119 0.0 75.6 113.4#

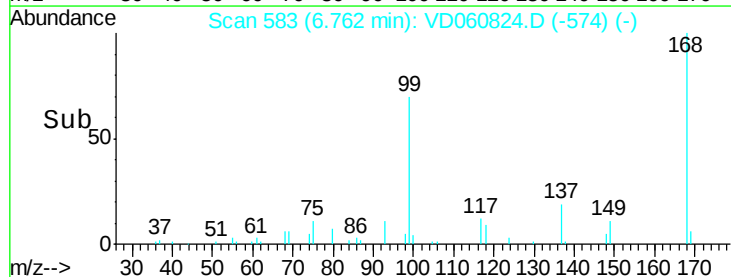
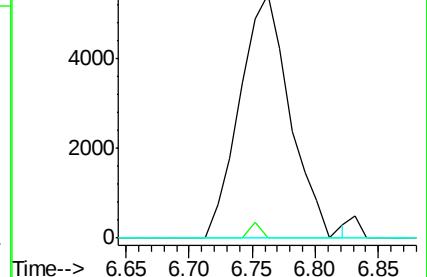
121 0.0 23.4 35.2#

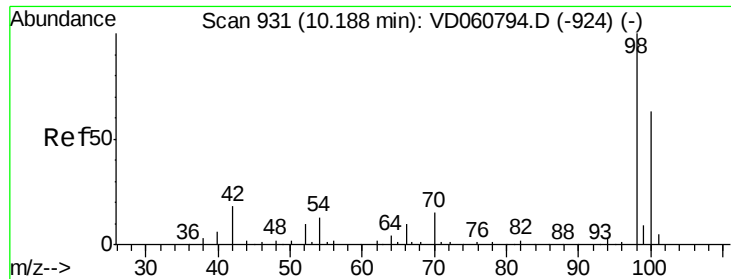


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

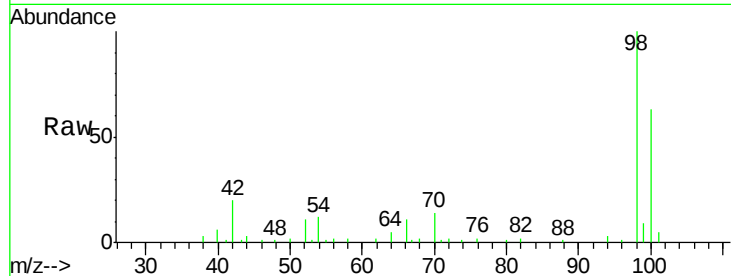




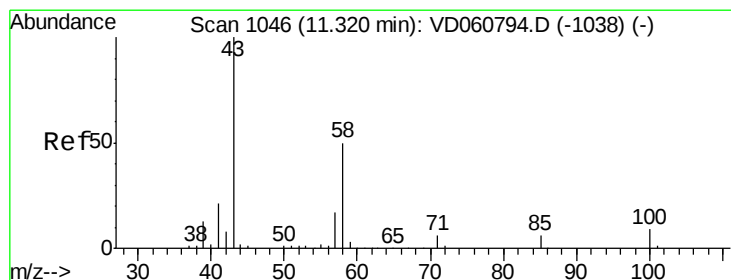
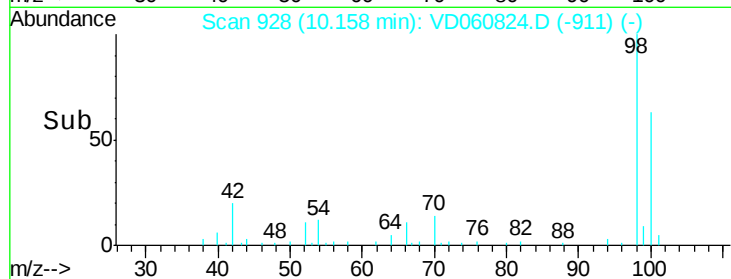
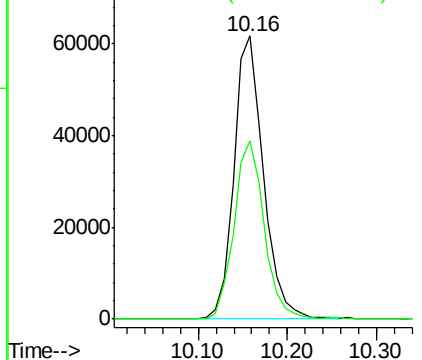
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.16 min Scan# 928
Delta R.T. -0.03 min
Lab File: VD060824.D
Acq: 1 Feb 2019 17:32

Instrument :
MSVOA_D
ClientSampleId :
A0C17-SS2RE

Tot Ion: 98 Resp: 142347
Ion Ratio Lower Upper
98 100
100 63.1 51.0 76.6

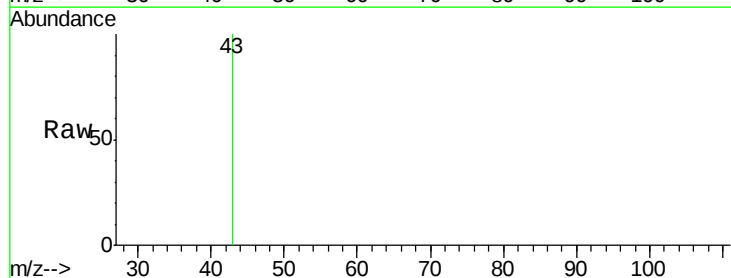


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

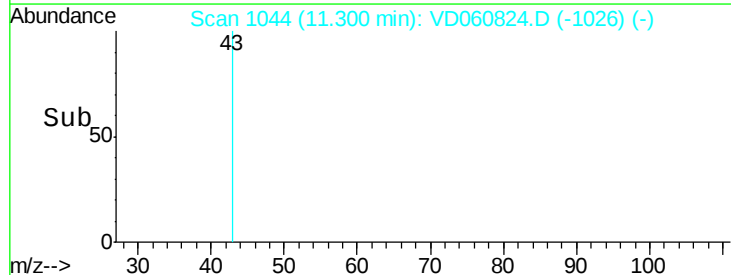
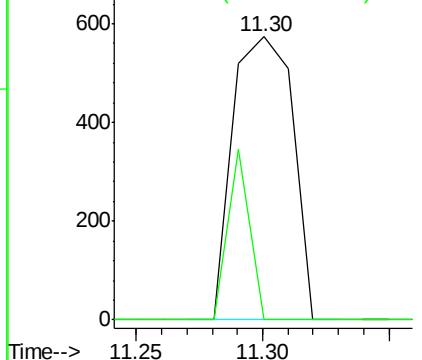


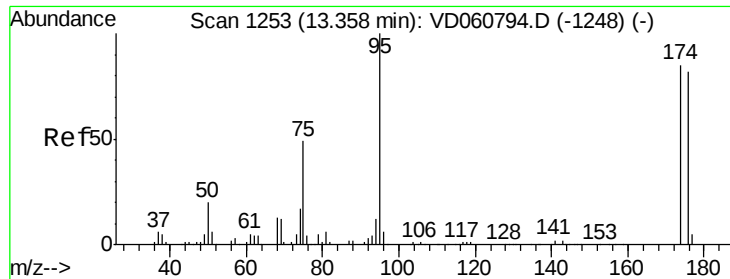
#59
2-Hexanone
Concen: 1.527 ug/l
RT: 11.30 min Scan# 1044
Delta R.T. -0.02 min
Lab File: VD060824.D
Acq: 1 Feb 2019 17:32

Tgt Ion: 43 Resp: 947
Ion Ratio Lower Upper
43 100
58 0.0 25.0 75.0#



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: 13.34 min Scan# 1251

Delta R.T. -0.02 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

A0C17-SS2RE

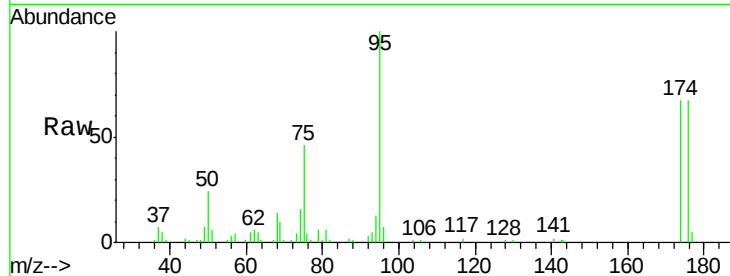
Tot Ion: 95 Resp: 69794

Ion Ratio Lower Upper

95 100

174 67.4 0.0 169.6

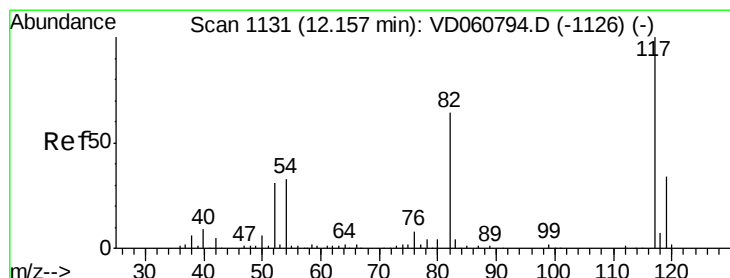
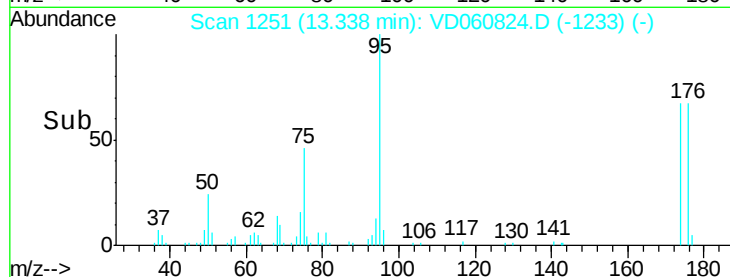
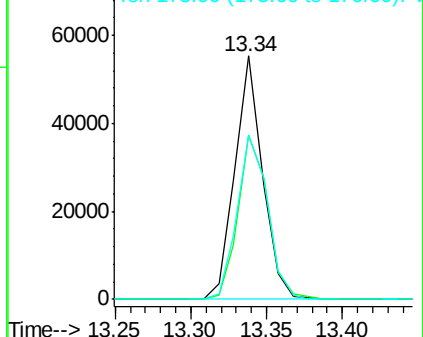
176 67.3 0.0 163.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.14 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

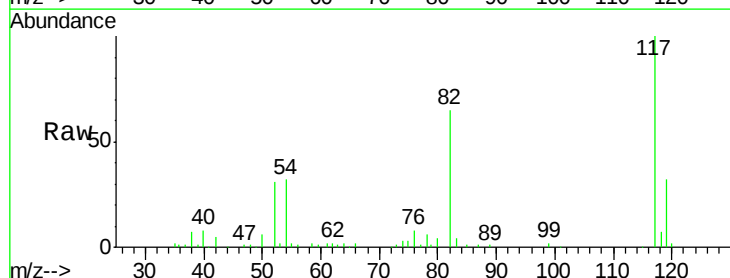
Tgt Ion: 117 Resp: 145637

Ion Ratio Lower Upper

117 100

82 64.9 51.5 77.3

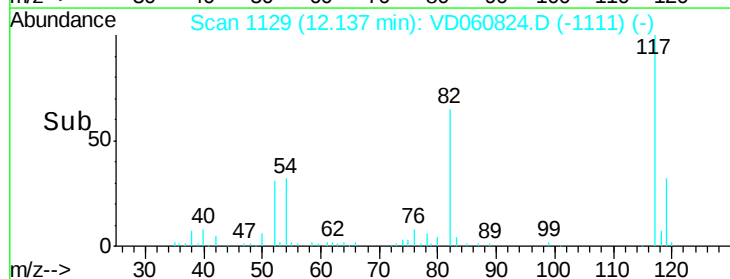
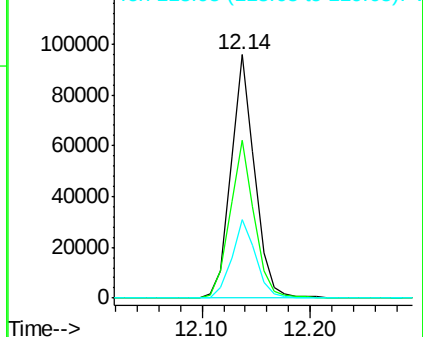
119 32.2 27.1 40.7

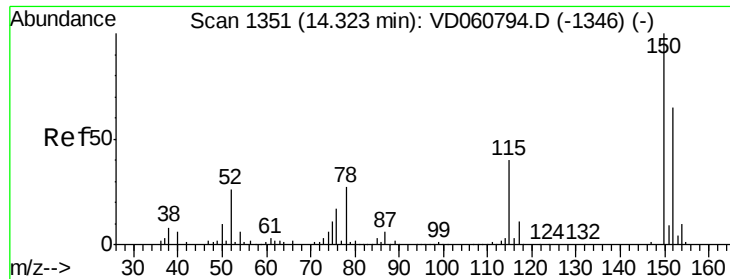


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD060824.D

Acq: 1 Feb 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

A0C17-SS2RE

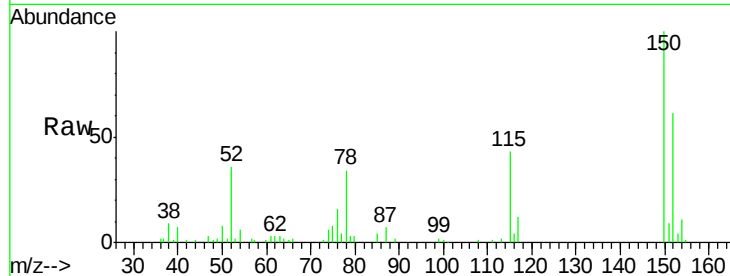
Tot Ion:152 Resp: 53910

Ion Ratio Lower Upper

152 100

115 71.2 31.6 95.0

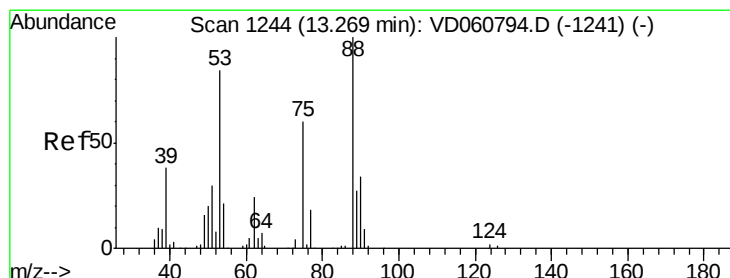
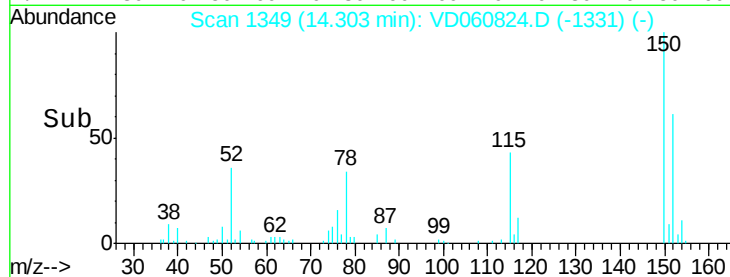
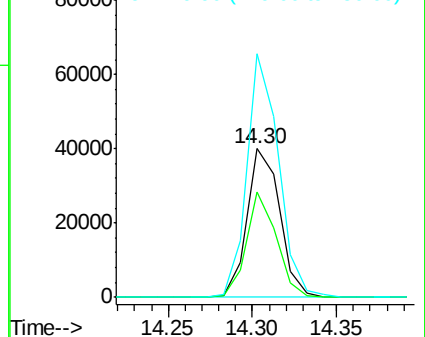
150 163.9 0.0 317.6



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: 139.653 ug/l

RT: 13.34 min Scan# 1251

Delta R.T. 0.07 min

Lab File: VD060824.D

Acq: 1 Feb 2019 17:32

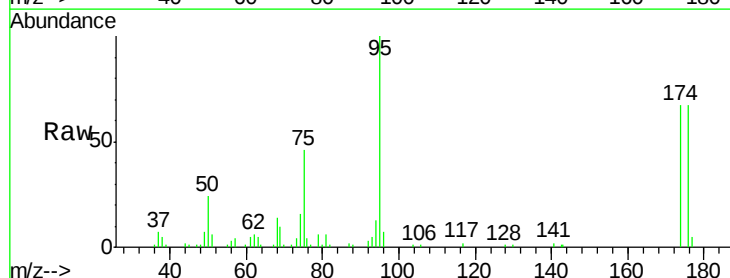
Tgt Ion: 75 Resp: 35993

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

