

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040419\
 Data File : VD061596.D
 Acq On : 4 Apr 2019 23:14
 Operator : VA/AP
 Sample : K2231-02
 Misc : 3.49g/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 05 01:42:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	457748	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	790846	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	655982	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	284584	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	188249	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	
35) Dibromofluoromethane	6.88	113	187615	31.04	ug/l	-0.01
Spiked Amount			Recovery	=	62.08%	
50) Toluene-d8	10.38	98	563592	38.88	ug/l	0.00
Spiked Amount			Recovery	=	77.76%	
62) 4-Bromofluorobenzene	13.54	95	247478	44.52	ug/l	0.00
Spiked Amount			Recovery	=	89.04%	

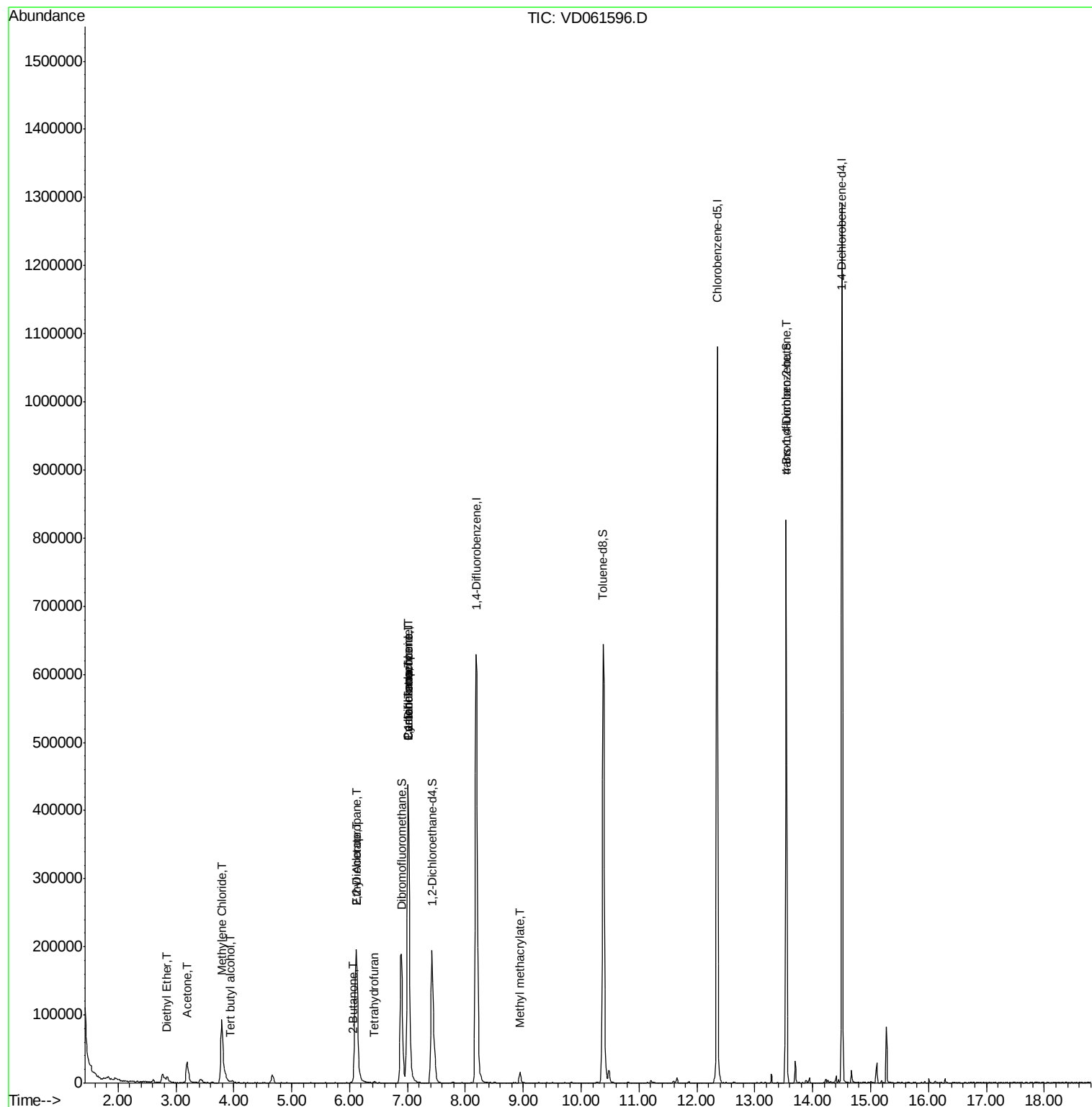
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.85	74	2445	1.427	ug/l #	4
11) Tert butyl alcohol	3.95	59	3412	14.011	ug/l #	76
16) Acetone	3.19	43	62390	62.067	ug/l	100
20) Methylene Chloride	3.79	84	70700	11.060	ug/l	97
25) 2-Butanone	6.05	43	3029	2.396	ug/l #	54
26) 2,2-Dichloropropane	6.11	77	14615	2.157	ug/l #	50
29) Tetrahydrofuran	6.43	42	1696	2.767	ug/l #	39
31) Cyclohexane	7.01	56	8150	1.210	ug/l #	1
36) 1,1-Dichloropropene	7.01	75	35138	5.091	ug/l #	44
37) Ethyl Acetate	6.12	43	12173	4.124	ug/l #	1
38) Carbon Tetrachloride	7.01	117	44213	5.574	ug/l #	13
48) Methyl methacrylate	8.94	41	2414	1.018	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.54	75	93506	74.601	ug/l #	18

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

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Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.01 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

Instrument :

MSVOA_D

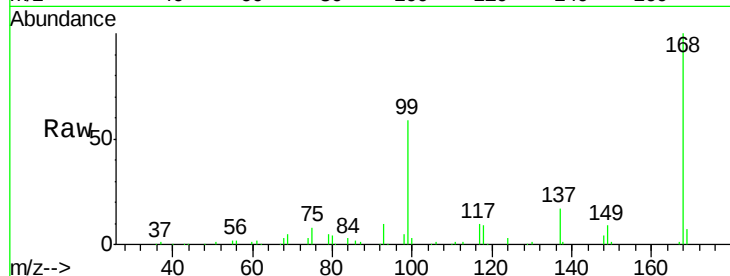
ClientSampleId :

Tot Ion:168 Resp: 457748

Ion Ratio Lower Upper

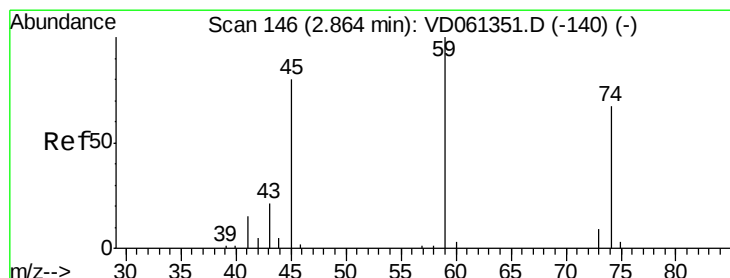
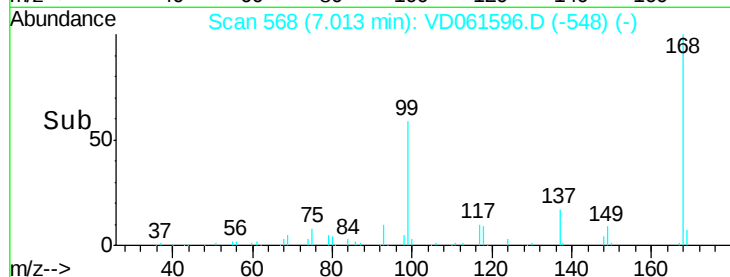
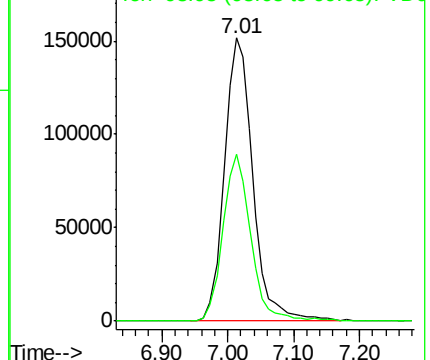
168 100

99 58.9 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.427 ug/l

RT: 2.85 min Scan# 145

Delta R.T. -0.01 min

Lab File: VD061596.D

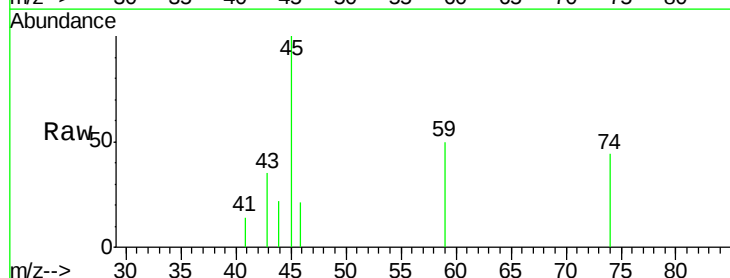
Acq: 4 Apr 2019 23:14

Tgt Ion: 74 Resp: 2445

Ion Ratio Lower Upper

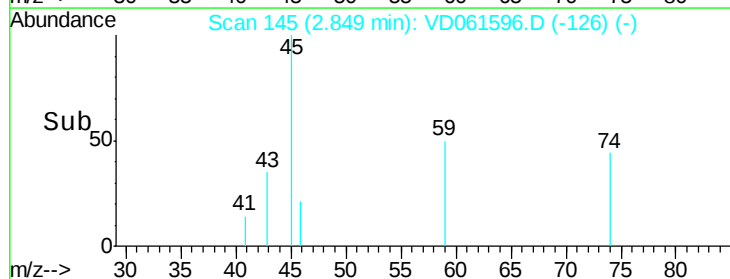
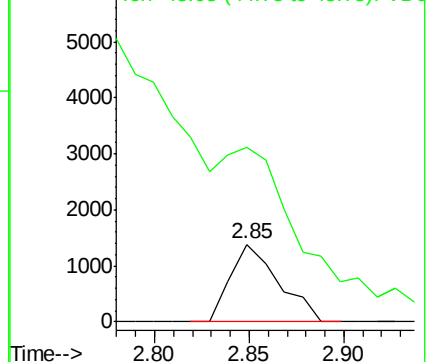
74 100

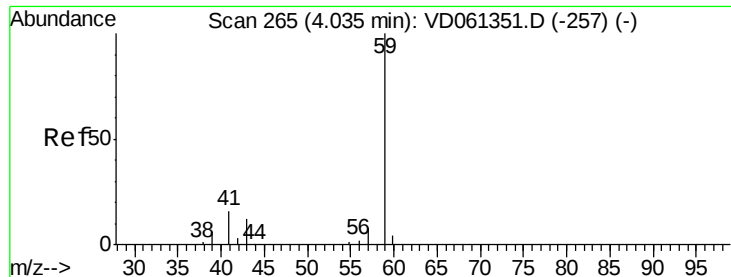
45 225.5 59.7 179.1#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

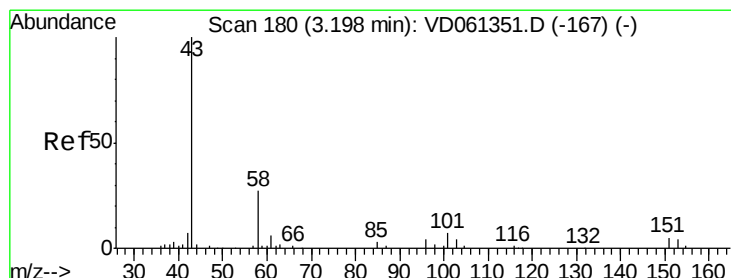
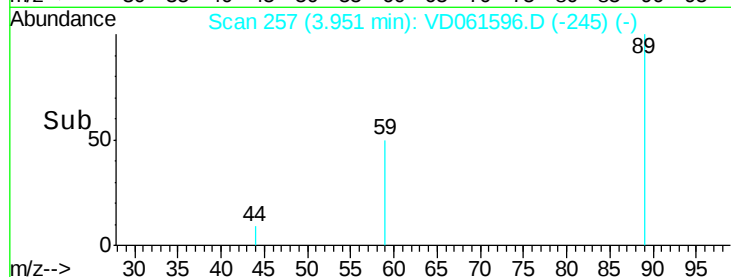
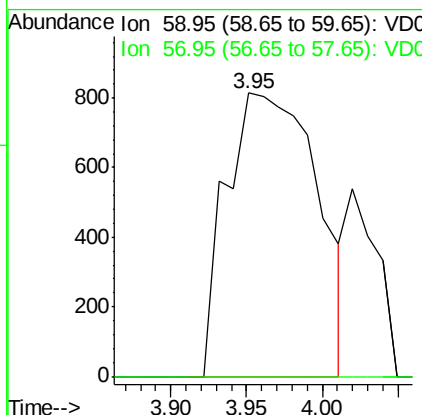
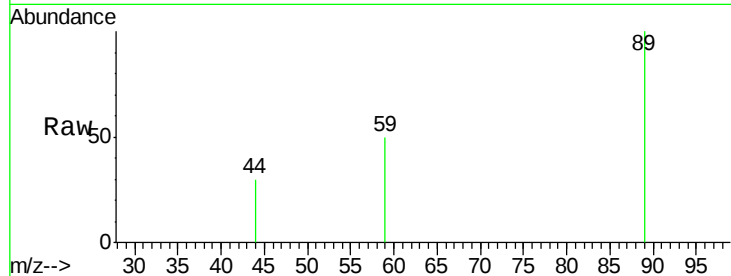




#11
Tert butyl alcohol
Concen: 14.011 ug/l
RT: 3.95 min Scan# 257
Delta R.T. -0.08 min
Lab File: VD061596.D
Acq: 4 Apr 2019 23:14

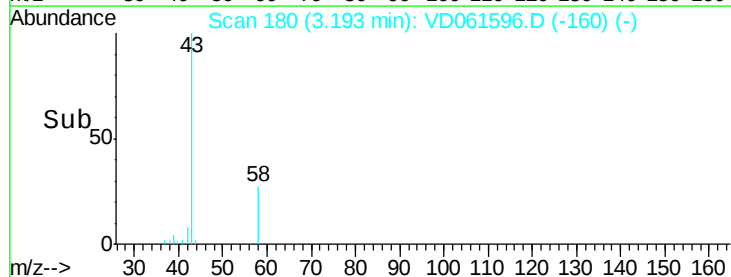
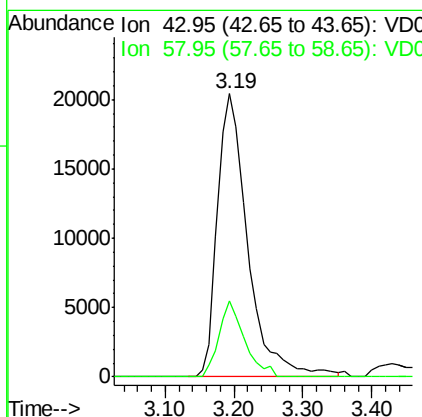
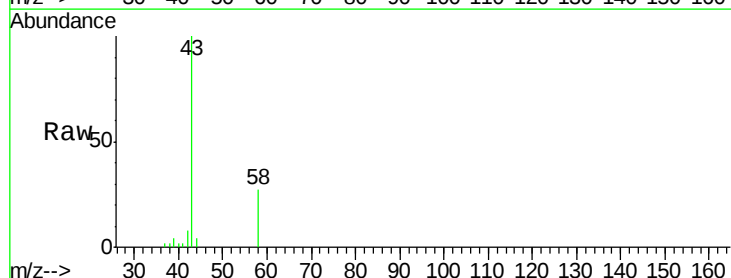
Instrument :
MSVOA_D
ClientSampled :

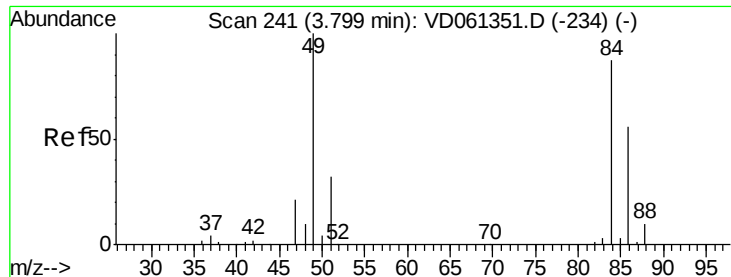
Tot Ion: 59 Resp: 3412
Ion Ratio Lower Upper
59 100
57 0.0 6.7 10.1#



#16
Acetone
Concen: 62.067 ug/l
RT: 3.19 min Scan# 180
Delta R.T. -0.01 min
Lab File: VD061596.D
Acq: 4 Apr 2019 23:14

Tgt Ion: 43 Resp: 62390
Ion Ratio Lower Upper
43 100
58 26.9 21.5 32.3

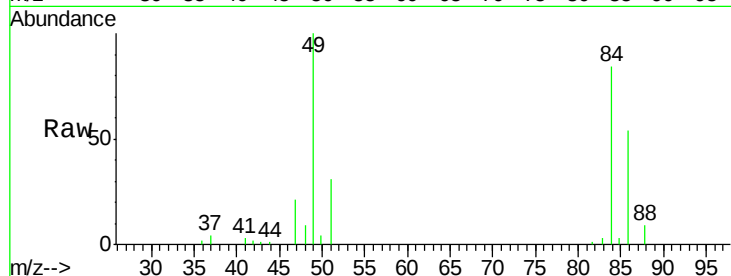




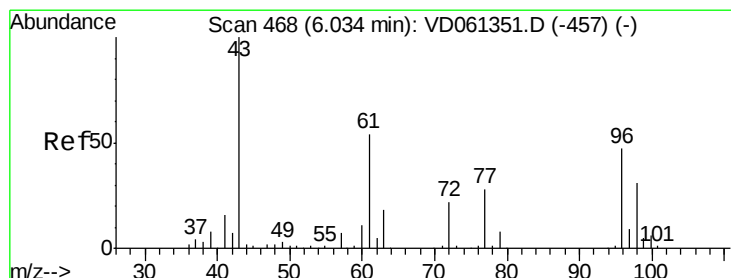
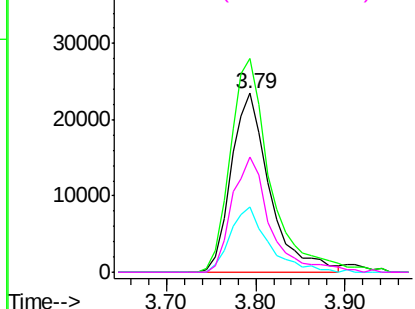
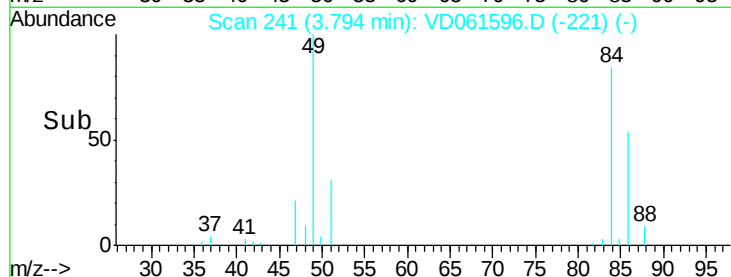
#20
Methylene Chloride
Concen: 11.060 ug/l
RT: 3.79 min Scan# 241
Delta R.T. -0.01 min
Lab File: VD061596.D
Acq: 4 Apr 2019 23:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 70700
Ion Ratio Lower Upper
84 100
49 119.4 91.8 137.8
51 36.5 29.8 44.8
86 64.3 51.8 77.6

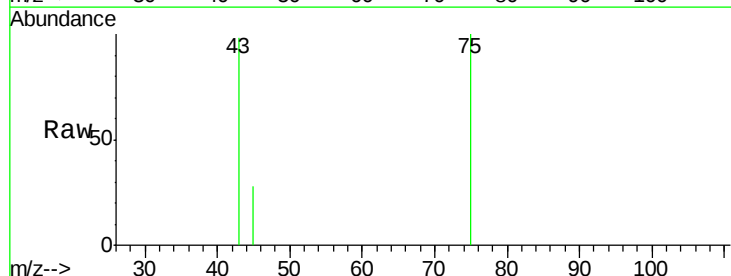


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

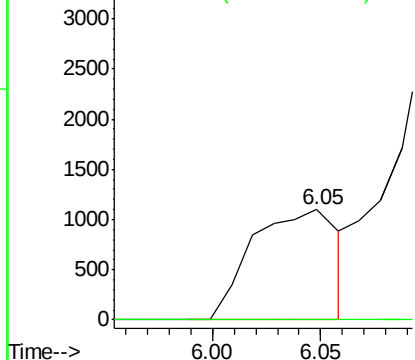
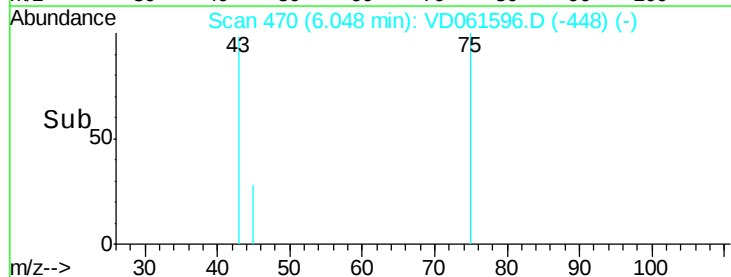


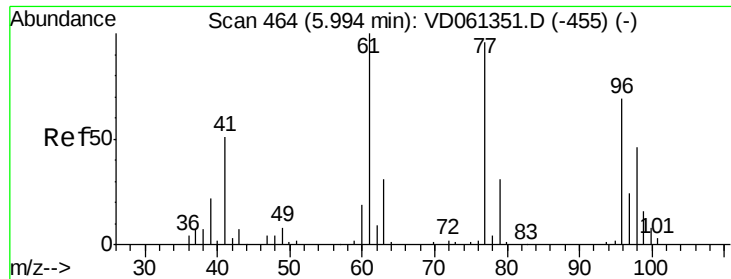
#25
2-Butanone
Concen: 2.396 ug/l
RT: 6.05 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD061596.D
Acq: 4 Apr 2019 23:14

Tgt Ion: 43 Resp: 3029
Ion Ratio Lower Upper
43 100
72 0.0 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

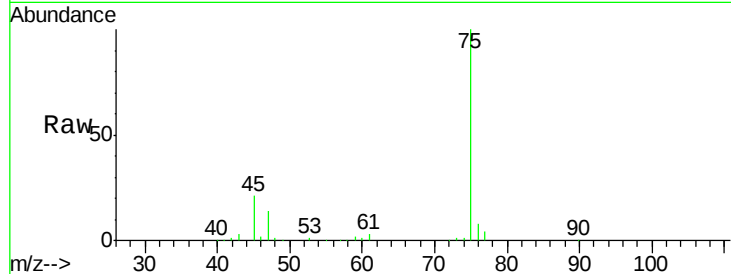




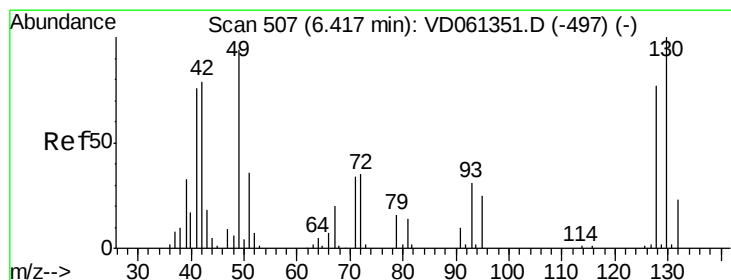
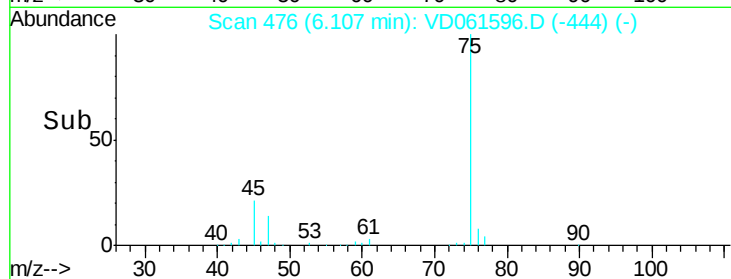
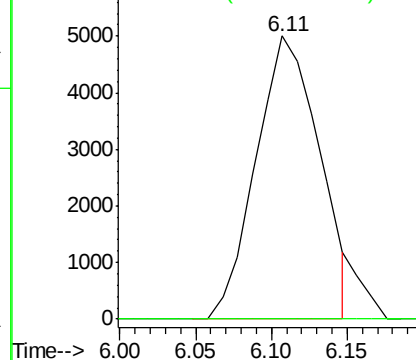
#26
 2,2-Dichloropropane
 Concen: 2.157 ug/l
 RT: 6.11 min Scan# 476
 Delta R.T. 0.11 min
 Lab File: VD061596.D
 Acq: 4 Apr 2019 23:14

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 77 Resp: 14615
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.7 38.0#

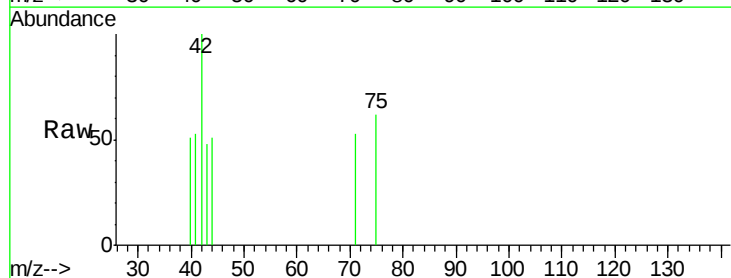


Abundance Ion 76.95 (76.65 to 77.65): VDC
 Ion 96.85 (96.55 to 97.55): VDC

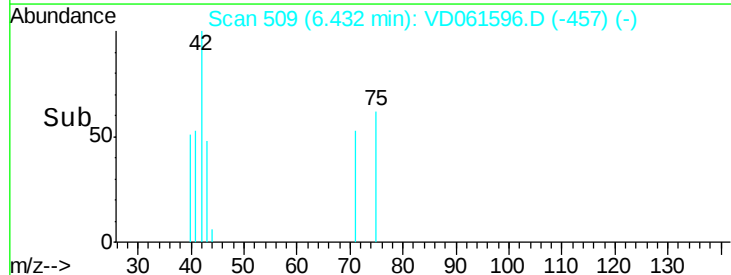
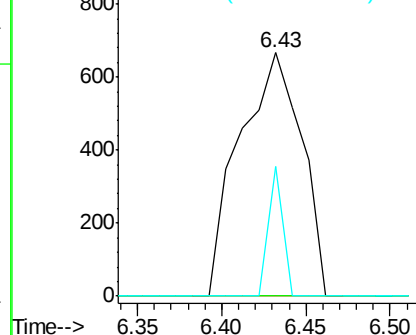


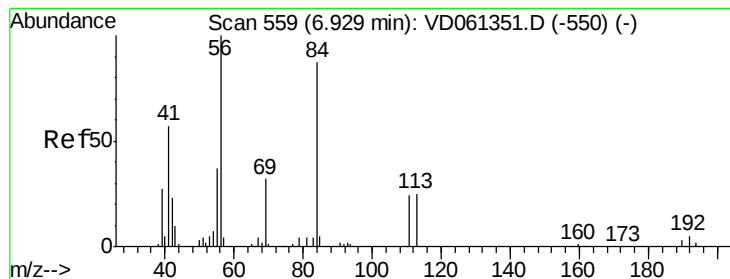
#29
 Tetrahydrofuran
 Concen: 2.767 ug/l
 RT: 6.43 min Scan# 509
 Delta R.T. 0.01 min
 Lab File: VD061596.D
 Acq: 4 Apr 2019 23:14

Tgt Ion: 42 Resp: 1696
 Ion Ratio Lower Upper
 42 100
 72 0.0 37.4 56.0#
 71 12.4 36.7 55.1#



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: 1.210 ug/l

RT: 7.01 min Scan# 568

Delta R.T. 0.08 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

Instrument :

MSVOA_D

ClientSampled :

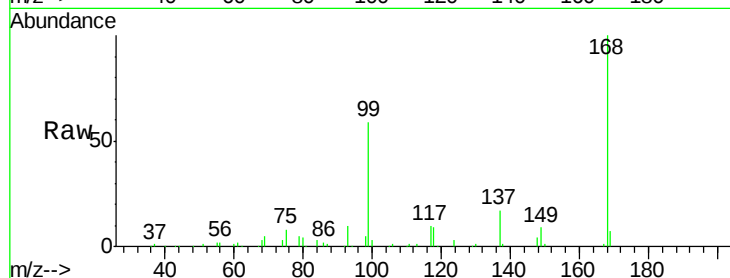
Tot Ion: 56 Resp: 8150

Ion Ratio Lower Upper

56 100

69 221.8 25.7 38.5#

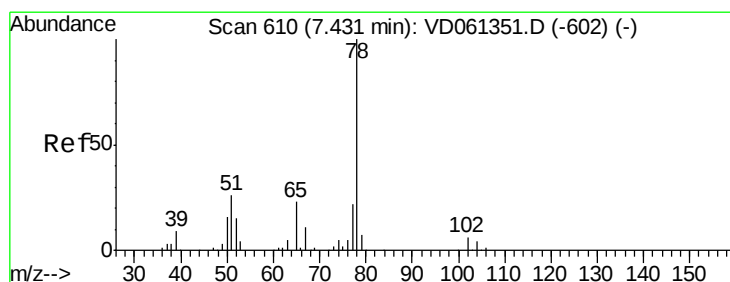
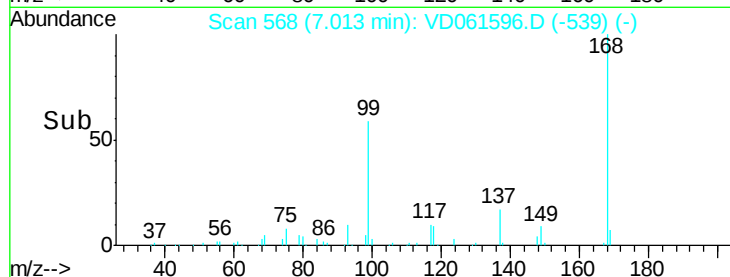
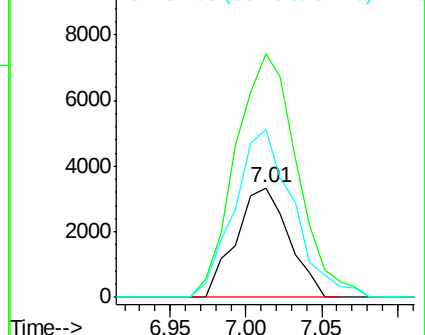
84 152.9 70.6 105.8#



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: 7.43 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD061596.D

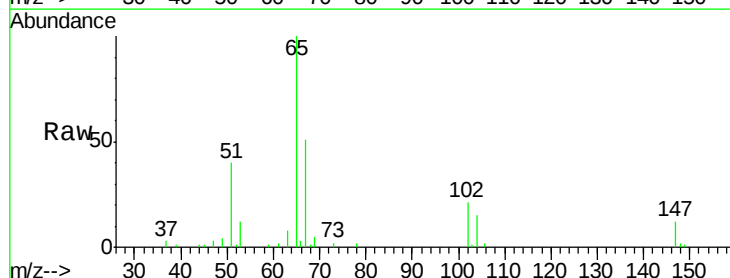
Acq: 4 Apr 2019 23:14

Tgt Ion: 65 Resp: 188249

Ion Ratio Lower Upper

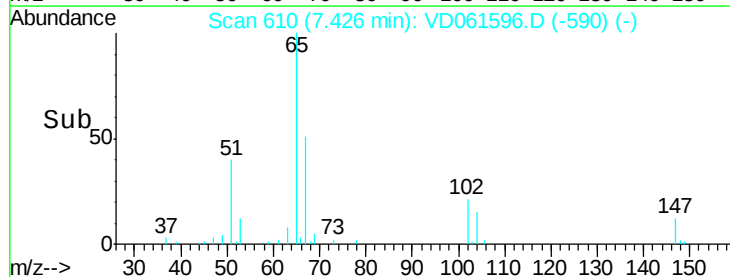
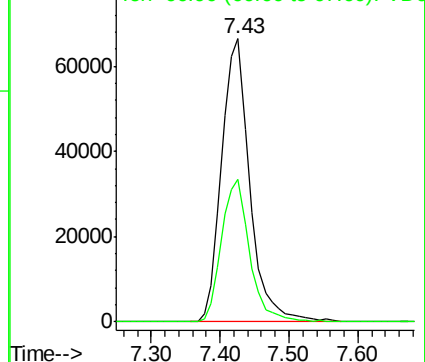
65 100

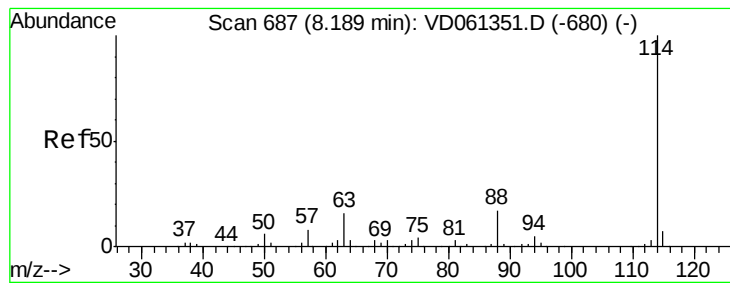
67 50.5 0.0 99.8



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: 8.19 min Scan# 688

Delta R.T. 0.00 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

Instrument :

MSVOA_D

ClientSampleId :

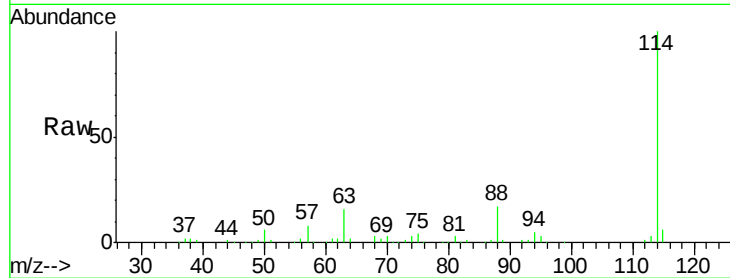
Tot Ion:114 Resp: 790846

Ion Ratio Lower Upper

114 100

63 15.7 0.0 31.6

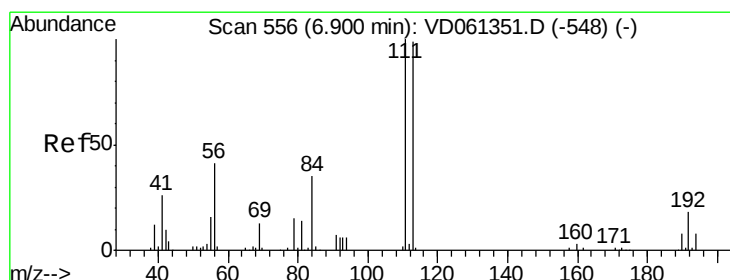
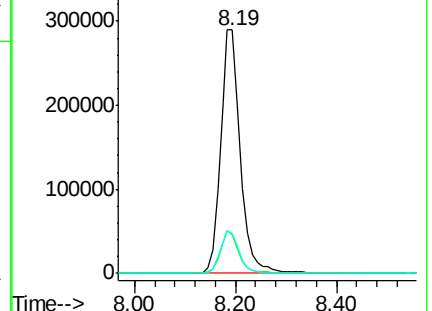
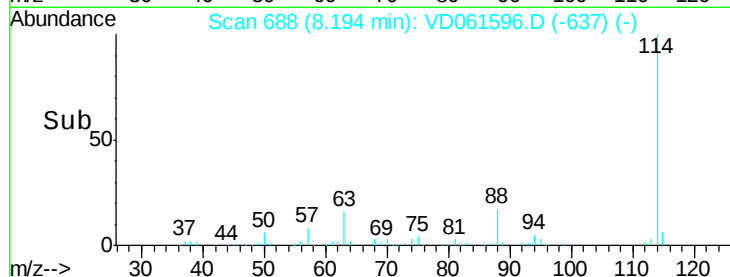
88 16.6 0.0 33.4



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: 6.88 min Scan# 555

Delta R.T. -0.01 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

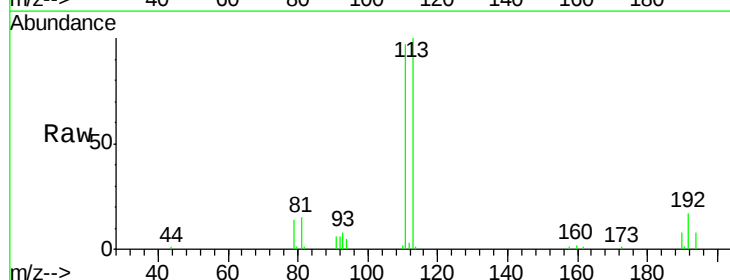
Tgt Ion:113 Resp: 187615

Ion Ratio Lower Upper

113 100

111 97.1 81.0 121.6

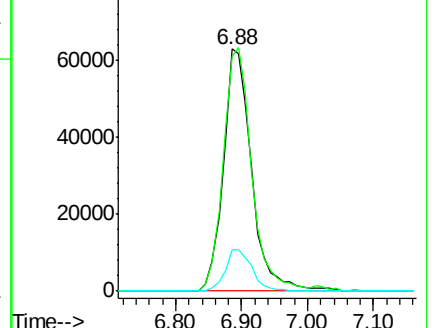
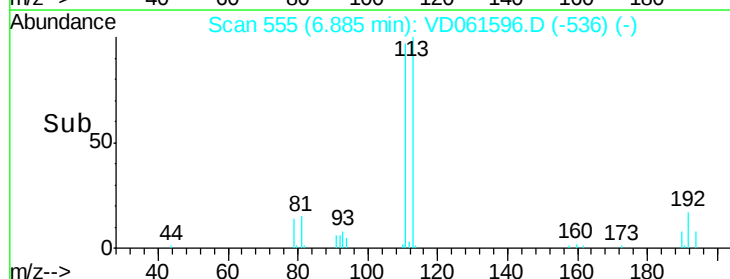
192 17.1 14.4 21.6

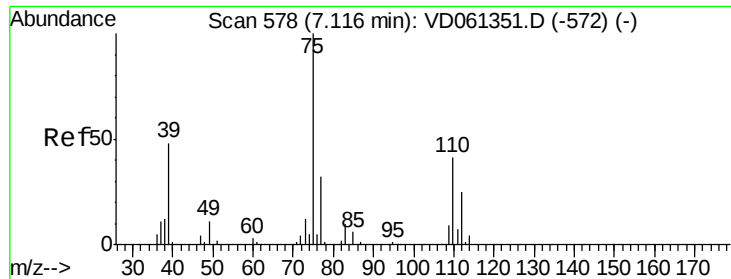


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.091 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.10 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

Instrument :

MSVOA_D

ClientSampleId :

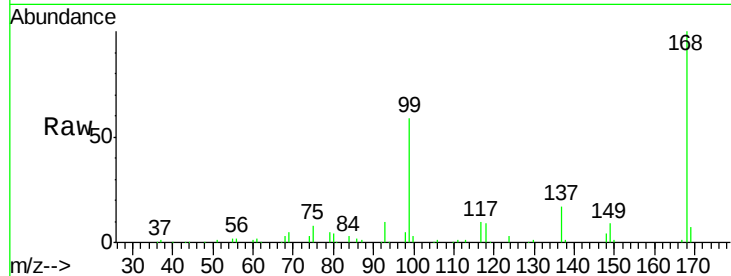
Tot Ion: 75 Resp: 35138

Ion Ratio Lower Upper

75 100

110 6.4 20.4 61.3#

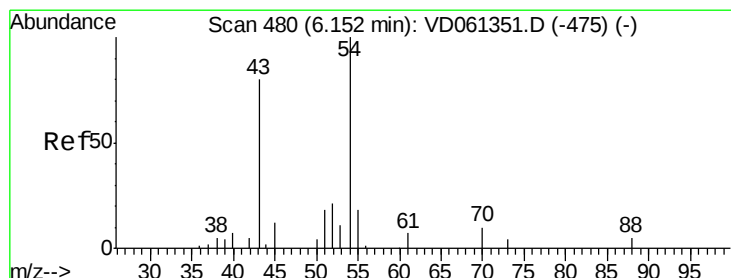
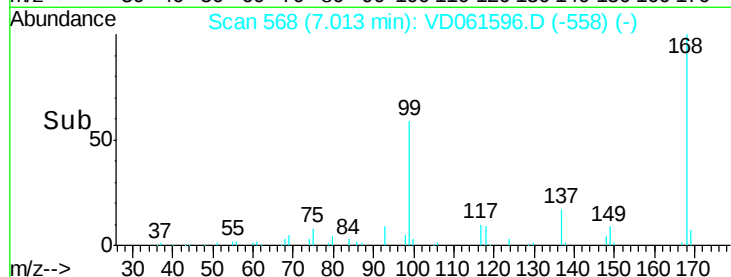
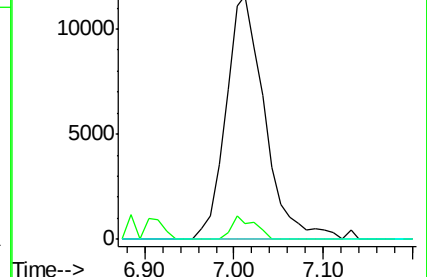
77 0.0 24.9 37.3#



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: 4.124 ug/l

RT: 6.12 min Scan# 477

Delta R.T. -0.03 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

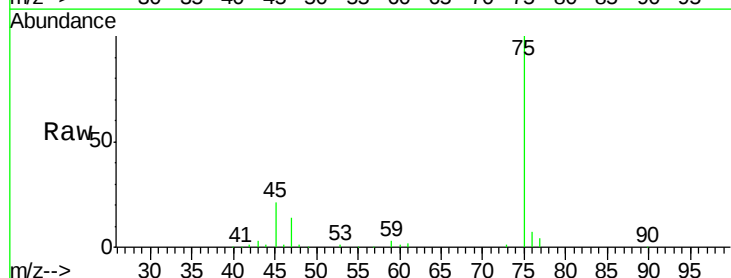
Tgt Ion: 43 Resp: 12173

Ion Ratio Lower Upper

43 100

61 80.4 13.8 20.8#

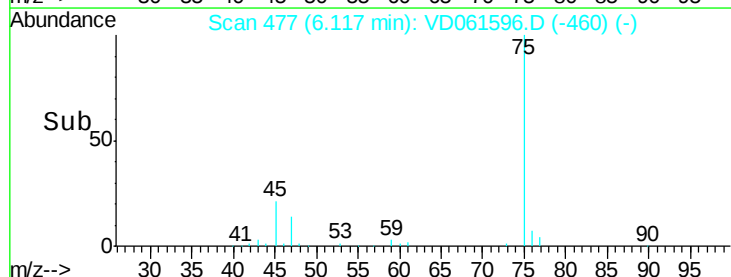
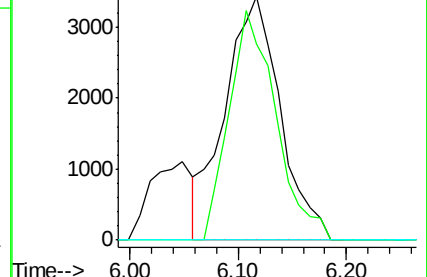
70 0.0 7.8 11.8#

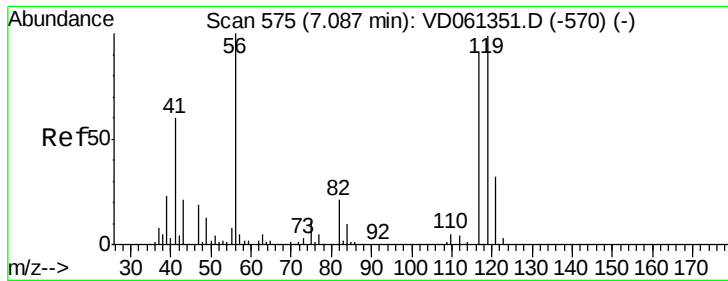


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.574 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.07 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

Instrument :

MSVOA_D

ClientSampleId :

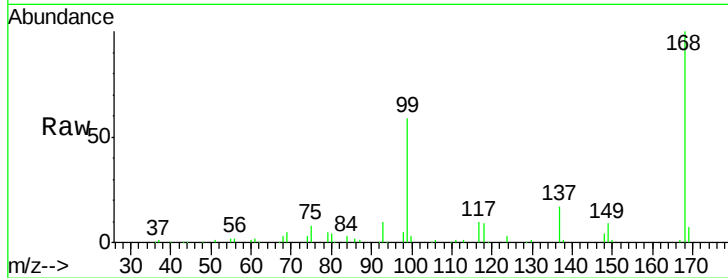
Tot Ion:117 Resp: 44213

Ion Ratio Lower Upper

117 100

119 4.0 80.1 120.1#

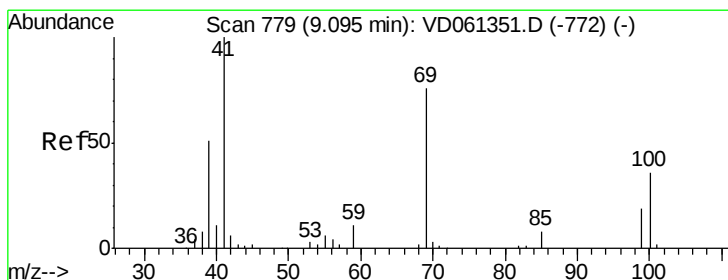
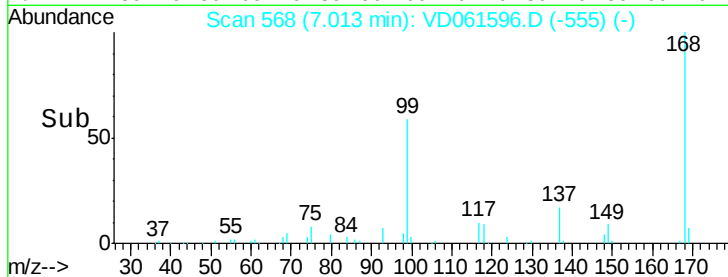
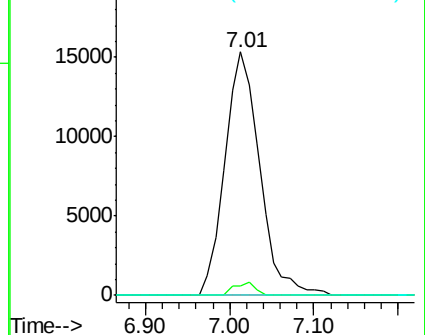
121 0.0 25.6 38.4#



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



#48

Methyl methacrylate

Concen: 1.018 ug/l

RT: 8.94 min Scan# 764

Delta R.T. -0.15 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

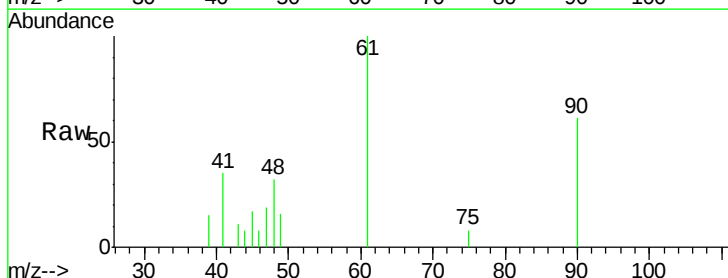
Tgt Ion: 41 Resp: 2414

Ion Ratio Lower Upper

41 100

69 0.0 60.2 90.4#

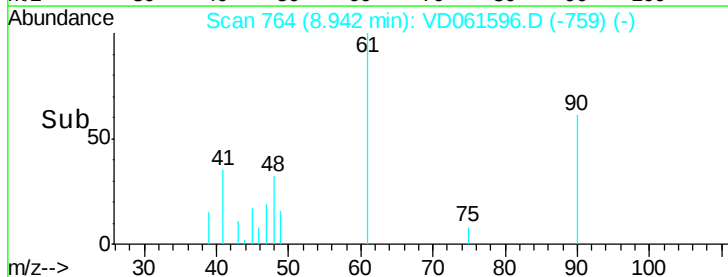
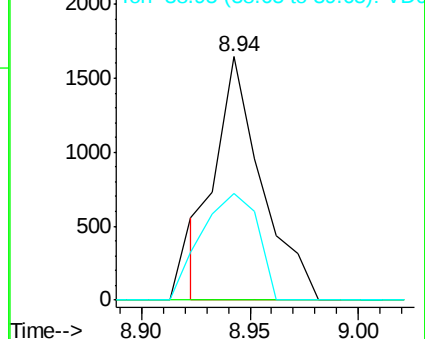
39 43.6 41.4 62.2

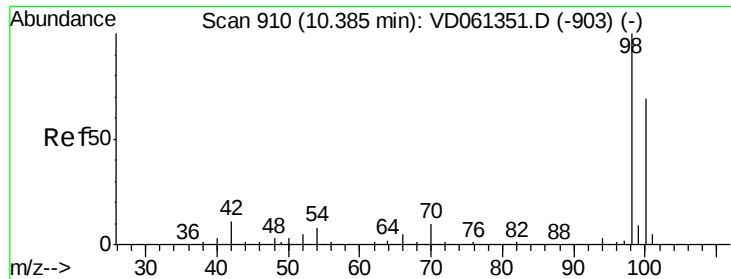


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.38 min Scan# 910

Delta R.T. -0.01 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

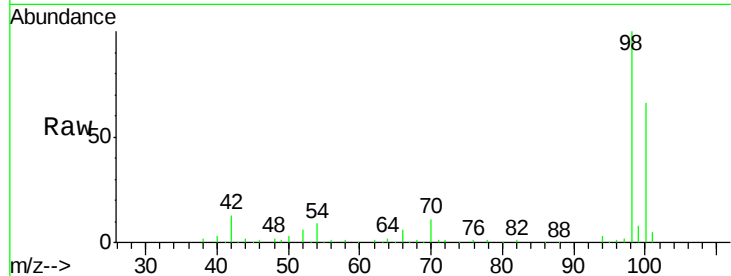
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 563592

Ion Ratio Lower Upper

98 100

100 66.4 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): VD061351.D (-903) (-)

Ion 100.05 (99.75 to 100.75): VD061351.D (-903) (-)

10.38

250000

200000

150000

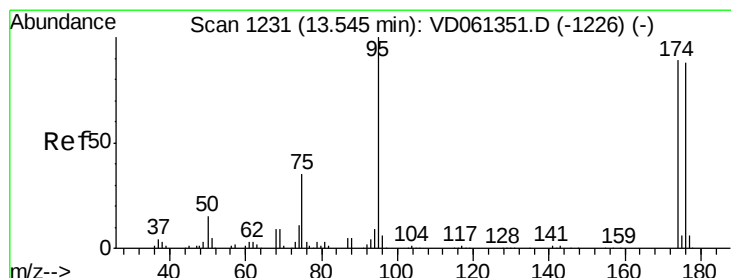
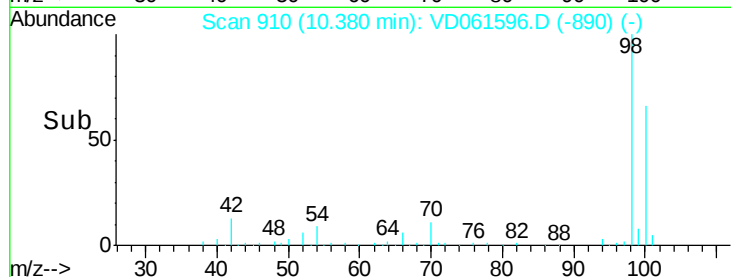
100000

50000

0

10.30 10.40 10.50

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

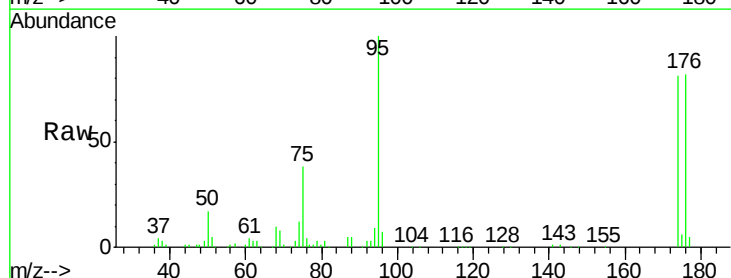
Tgt Ion: 95 Resp: 247478

Ion Ratio Lower Upper

95 100

174 81.3 0.0 178.0

176 81.6 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): VD061351.D (-1226) (-)

Ion 173.90 (173.60 to 174.60): VD061351.D (-1226) (-)

Ion 175.90 (175.60 to 176.60): VD061351.D (-1226) (-)

13.54

250000

200000

150000

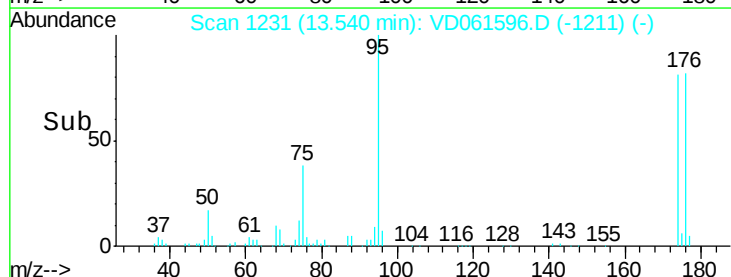
100000

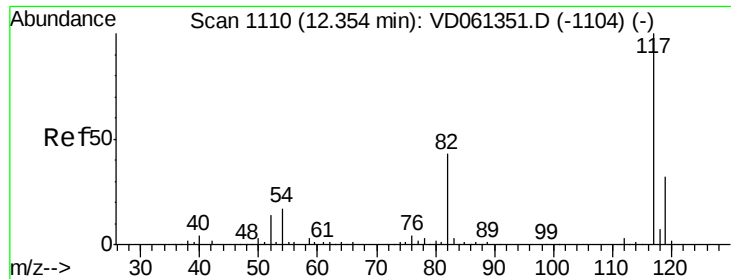
50000

0

13.50 13.60

Time-->

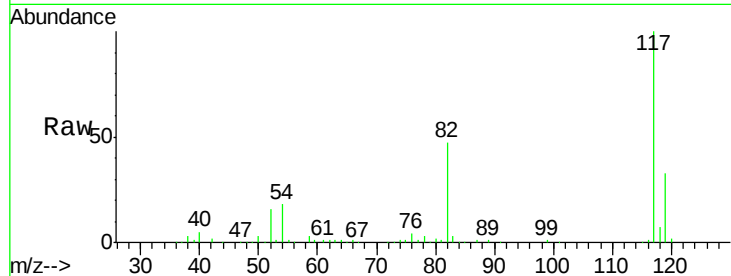




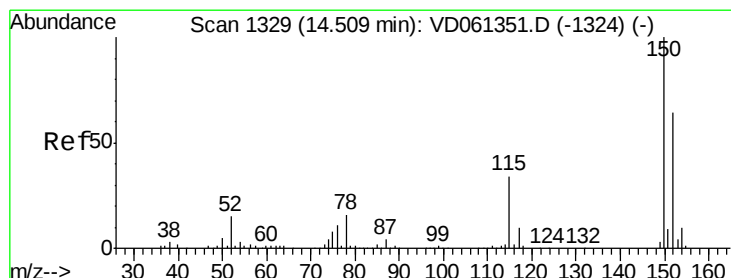
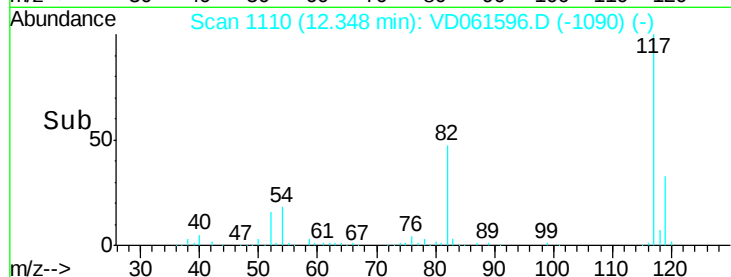
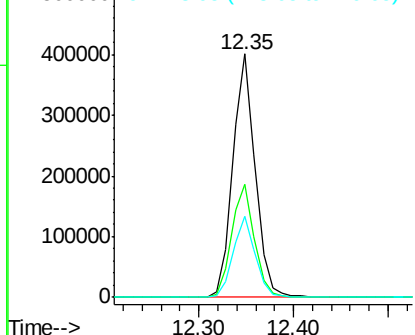
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD061596.D
Acq: 4 Apr 2019 23:14

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 655982
Ion Ratio Lower Upper
117 100
82 46.5 34.4 51.6
119 33.4 25.8 38.6

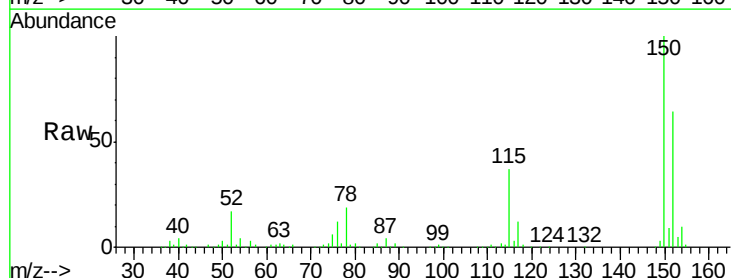


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

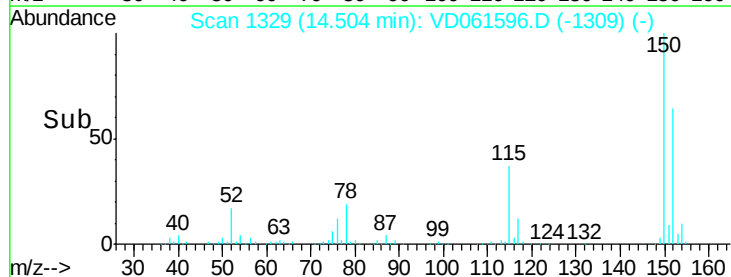
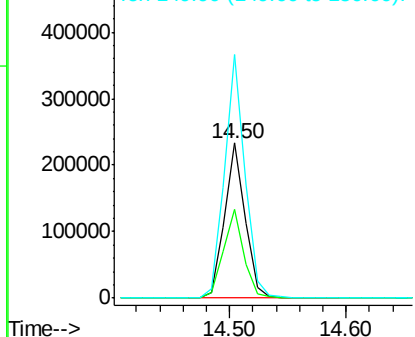


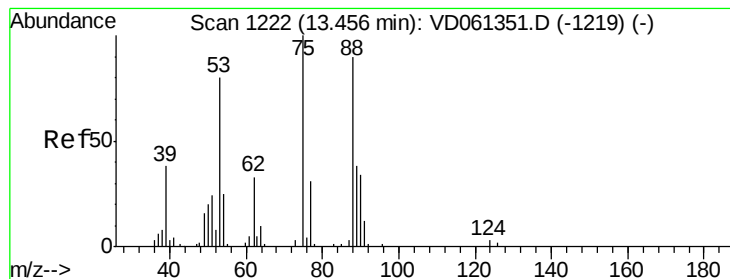
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD061596.D
Acq: 4 Apr 2019 23:14

Tgt Ion:152 Resp: 284584
Ion Ratio Lower Upper
152 100
115 57.7 26.9 80.6
150 157.2 0.0 318.0



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: 74.601 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD061596.D

Acq: 4 Apr 2019 23:14

Instrument :

MSVOA_D

ClientSampleId :

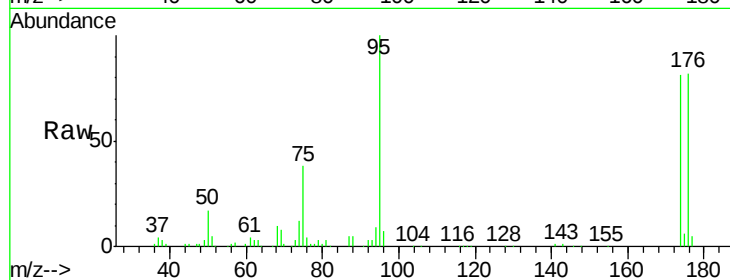
Tot Ion: 75 Resp: 93506

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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

