

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058044.D
 Acq On : 9 Jun 2018 5:27
 Operator : VA/AP
 Sample : J3354-05RE
 Misc : 15.63g/5ml/MSVOA D/SOIL
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 09 05:45:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	565379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	791156	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	621050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	305301	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	324861	57.47	ug/l	-0.02
Spiked Amount						
			Recovery	=	114.94%	
35) Dibromofluoromethane	5.54	113	348811	56.98	ug/l	-0.02
Spiked Amount						
			Recovery	=	113.96%	
50) Toluene-d8	8.70	98	791118	54.36	ug/l	0.00
Spiked Amount						
			Recovery	=	108.72%	
62) 4-Bromofluorobenzene	11.92	95	331037	52.14	ug/l	0.00
Spiked Amount						
			Recovery	=	104.28%	

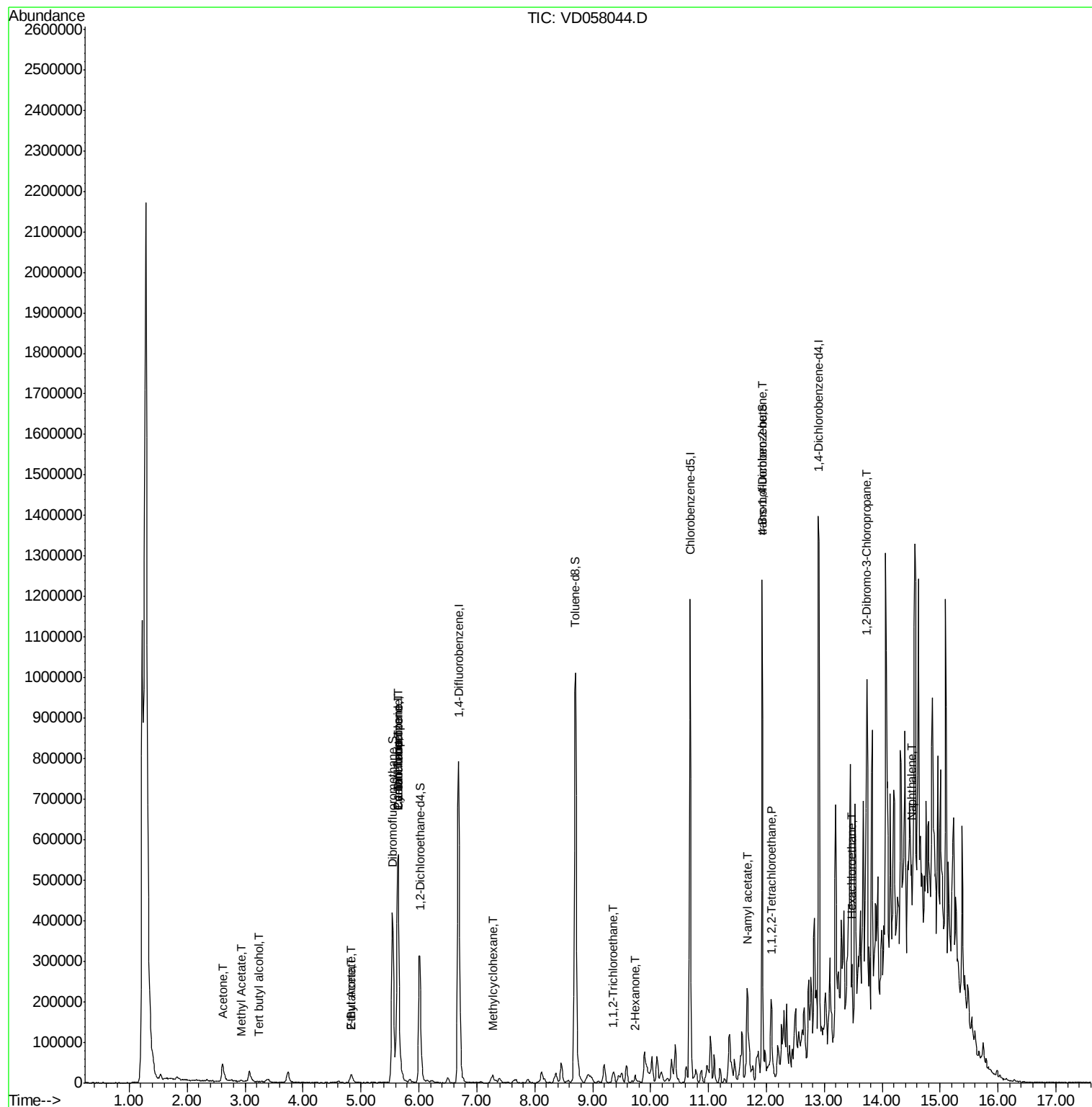
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.25	59	465	3.071	ug/l #	74
16) Acetone	2.61	43	90260	110.836	ug/l	97
18) Methyl Acetate	2.94	43	4060	2.577	ug/l #	66
20) Methylene Chloride	3.07	84	11857	Below Cal	#	83
25) 2-Butanone	4.83	43	22504	12.160	ug/l #	86
31) Cyclohexane	5.64	56	19098	1.943	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	50756	5.823	ug/l #	50
37) Ethyl Acetate	4.83	43	22504	4.732	ug/l #	72
38) Carbon Tetrachloride	5.64	117	46881	5.457	ug/l #	15
39) Methylcyclohexane	7.28	83	9709	1.124	ug/l	87
55) 1,1,2-Trichloroethane	9.36	97	12662	3.348	ug/l #	17
59) 2-Hexanone	9.74	43	10597	3.619	ug/l #	31
74) N-amyl acetate	11.67	43	24053	3.083	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.08	83	10579	2.399	ug/l #	44
81) trans-1,4-Dichloro-2-buten	11.92	75	155359	136.772	ug/l #	6
82) 4-Chlorotoluene	12.32	91	3548	Below Cal		84
89) n-Butylbenzene	13.19	91	7449	Below Cal	#	58
90) Hexachloroethane	13.48	117	47480	10.740	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.73	75	2574	3.783	ug/l #	11
95) Naphthalene	14.51	128	10714	1.087	ug/l #	58

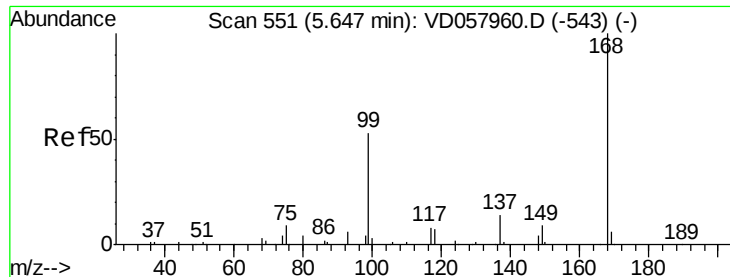
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

Instrument :

MSVOA_D

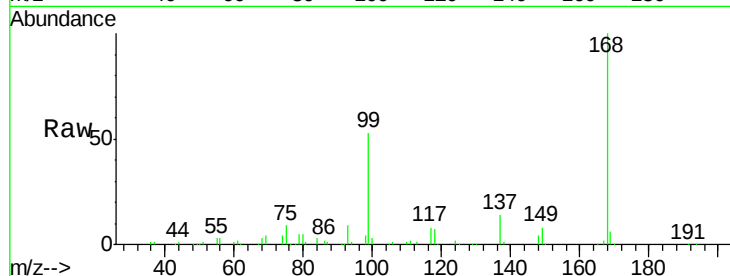
ClientSampleId :

Tot Ion:168 Resp: 565379

Ion Ratio Lower Upper

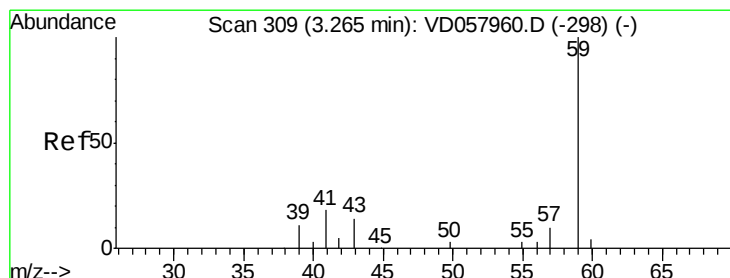
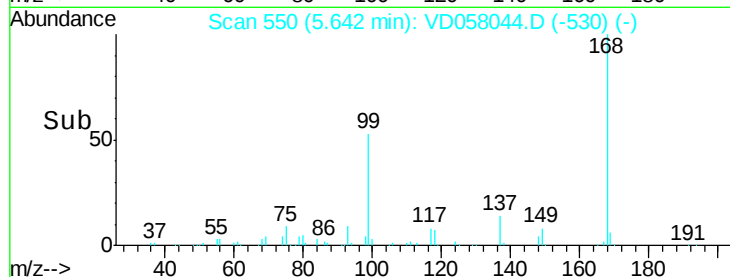
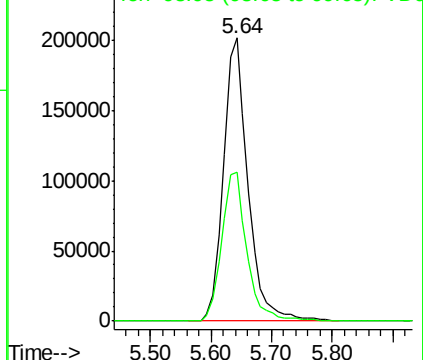
168 100

99 52.6 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 3.071 ug/l

RT: 3.25 min Scan# 307

Delta R.T. -0.02 min

Lab File: VD058044.D

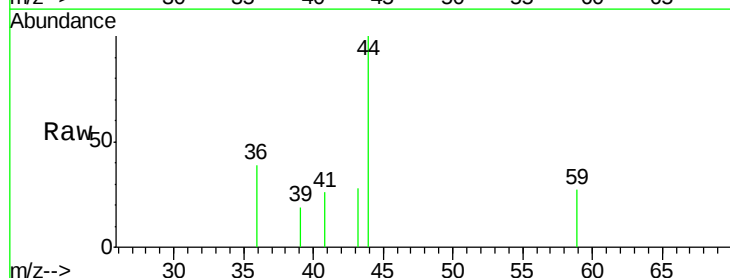
Acq: 9 Jun 2018 5:27

Tgt Ion: 59 Resp: 465

Ion Ratio Lower Upper

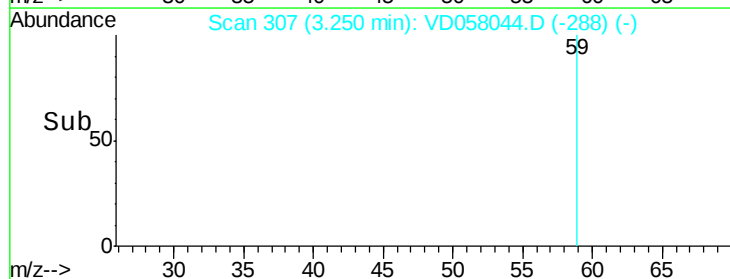
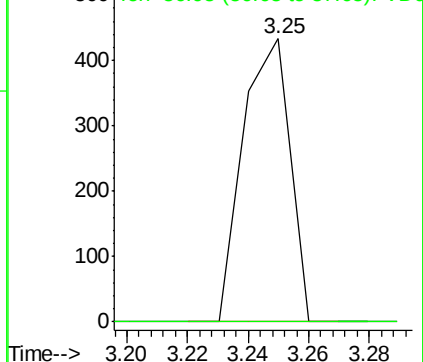
59 100

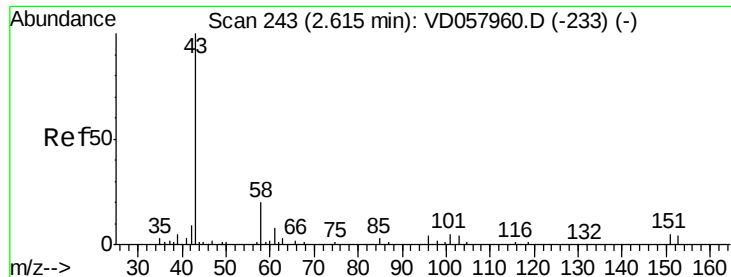
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 110.836 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

Instrument :

MSVOA_D

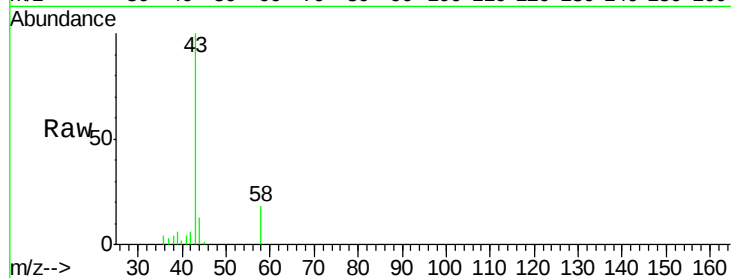
ClientSampleId :

Tot Ion: 43 Resp: 90260

Ion Ratio Lower Upper

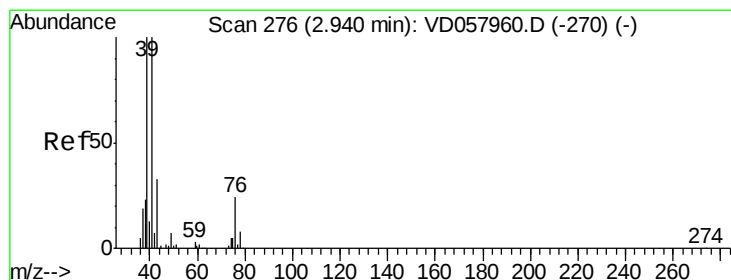
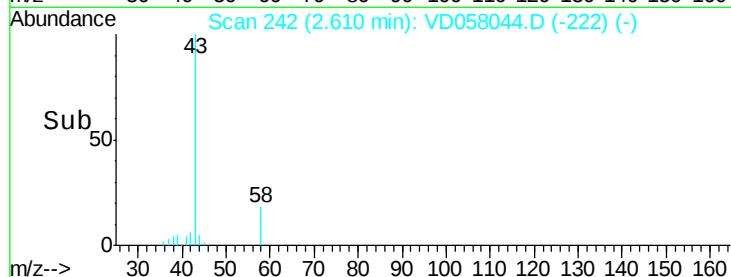
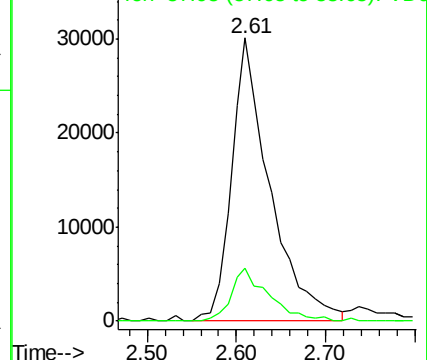
43 100

58 18.5 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 2.577 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.00 min

Lab File: VD058044.D

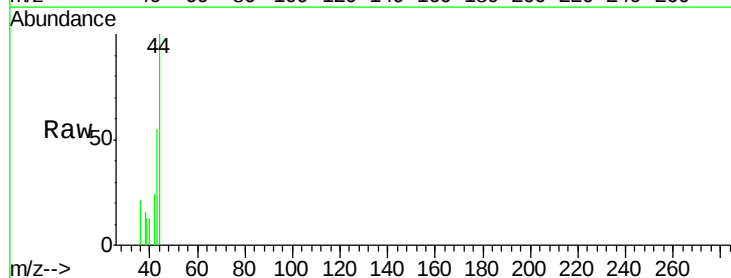
Acq: 9 Jun 2018 5:27

Tgt Ion: 43 Resp: 4060

Ion Ratio Lower Upper

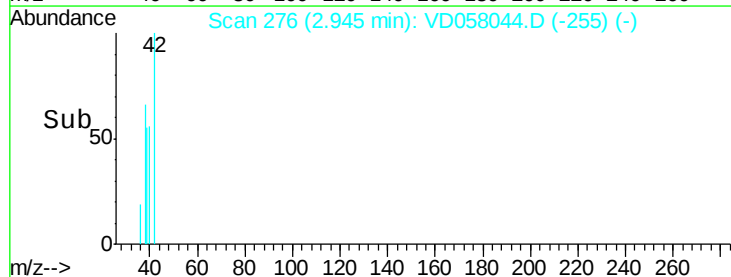
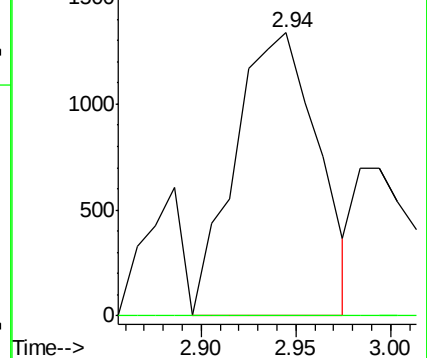
43 100

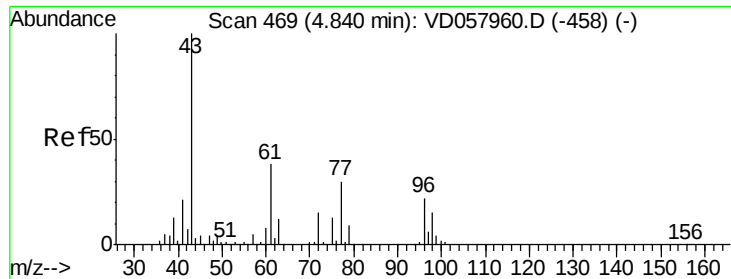
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 12.160 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

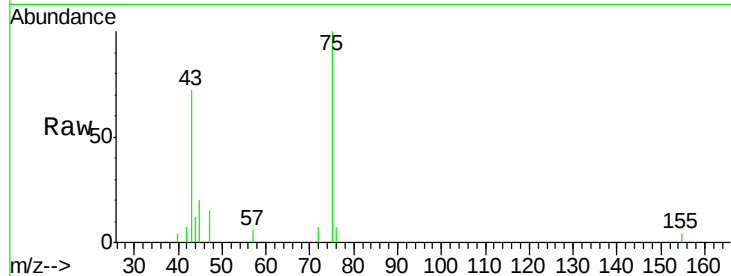
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 22504

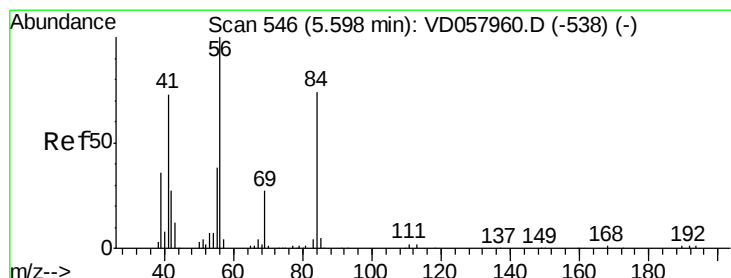
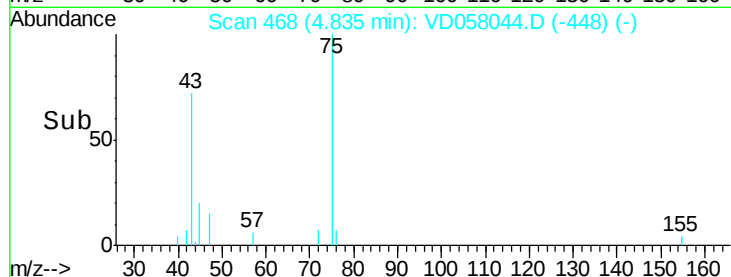
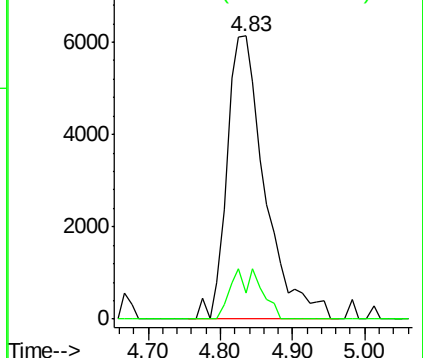
Ion Ratio Lower Upper

43 100

72 9.2 12.0 18.0#



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



#31

Cyclohexane

Concen: 1.943 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.04 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

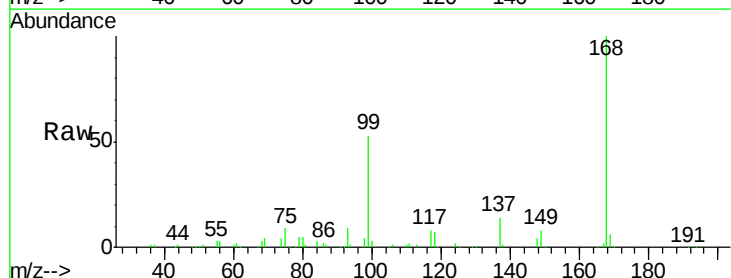
Tgt Ion: 56 Resp: 19098

Ion Ratio Lower Upper

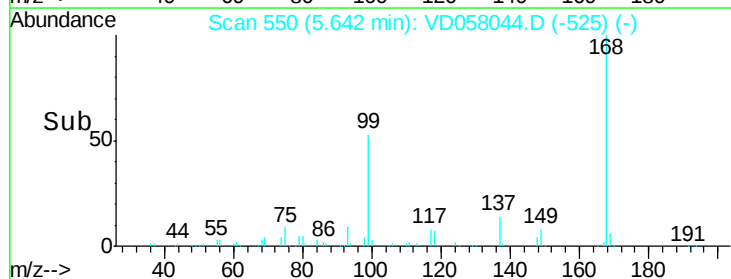
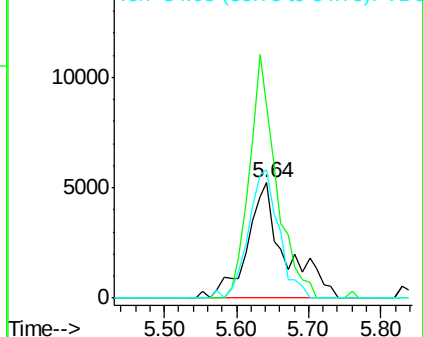
56 100

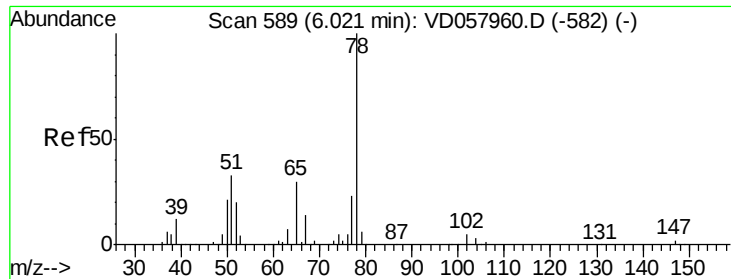
69 166.5 21.5 32.3#

84 111.5 61.0 91.6#



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

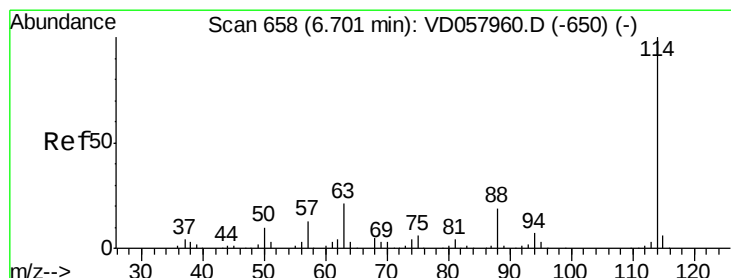
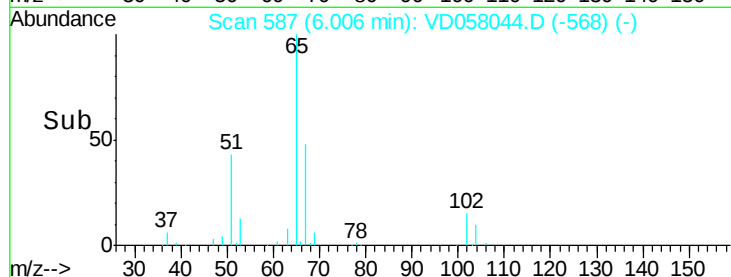
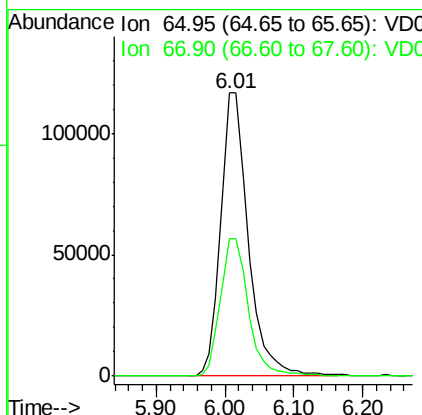
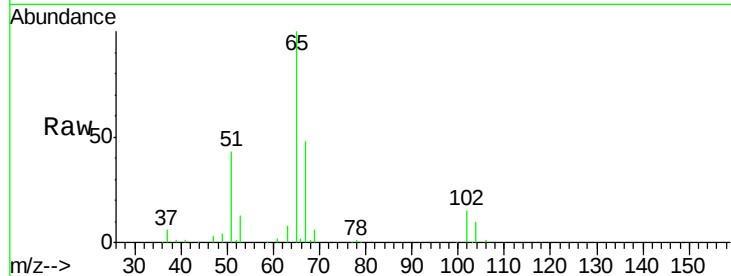




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.01 min Scan# 587
 Delta R.T. -0.02 min
 Lab File: VD058044.D
 Acq: 9 Jun 2018 5:27

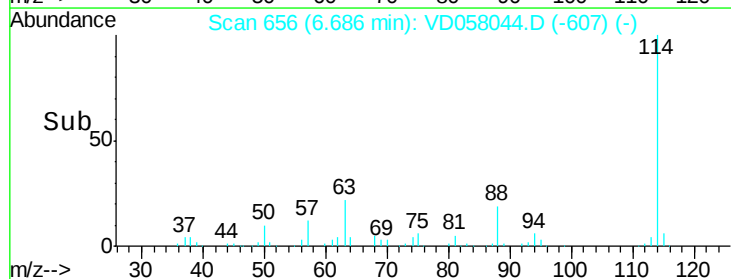
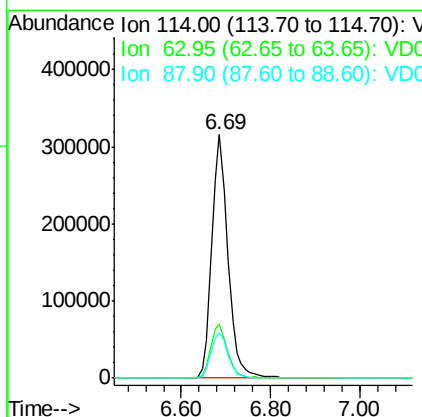
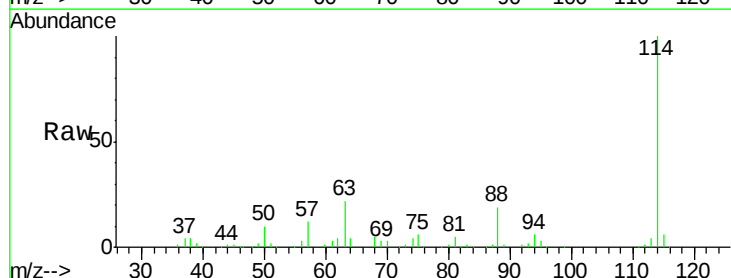
Instrument :
 MSVOA_D
 ClientSampled :

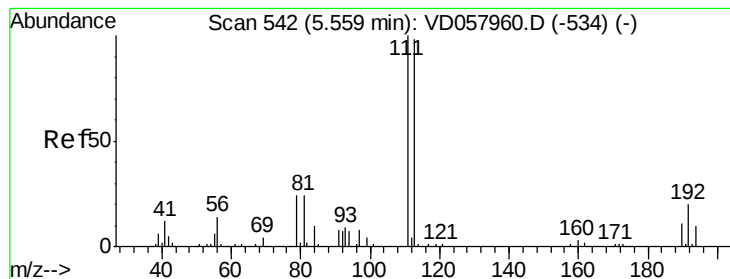
Tot Ion: 65 Resp: 324861
 Ion Ratio Lower Upper
 65 100
 67 48.4 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058044.D
 Acq: 9 Jun 2018 5:27

Tgt Ion: 114 Resp: 791156
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 42.8
 88 18.8 0.0 37.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

Instrument :
MSVOA_D
ClientSampleId :

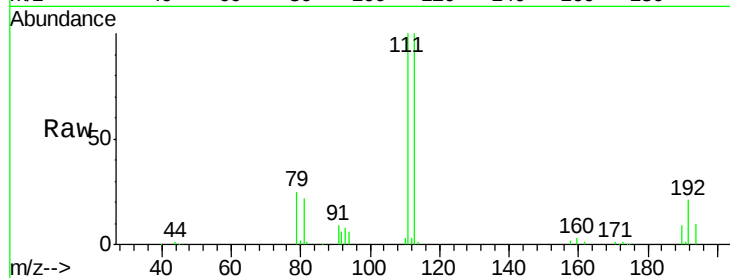
Tot Ion:113 Resp: 348811

Ion Ratio Lower Upper

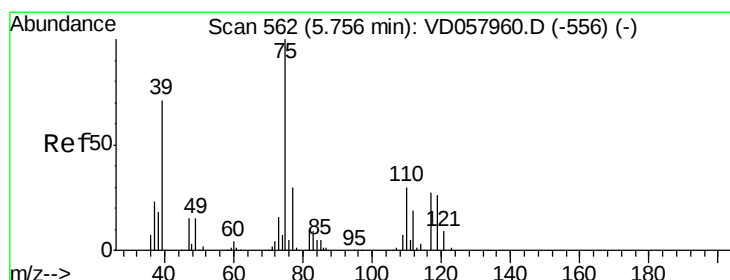
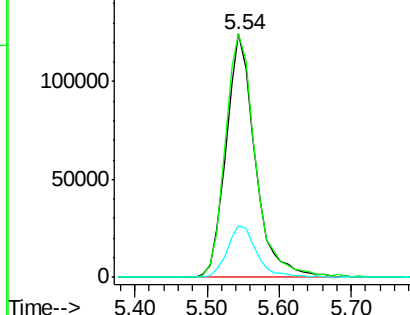
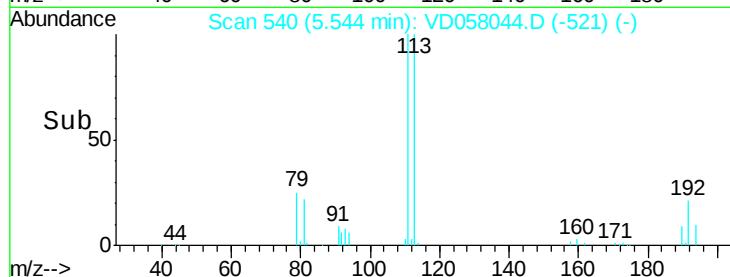
113 100

111 99.9 81.5 122.3

192 21.1 16.4 24.6



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: 5.823 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

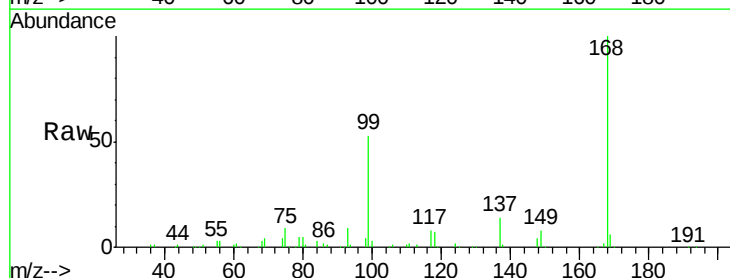
Tgt Ion: 75 Resp: 50756

Ion Ratio Lower Upper

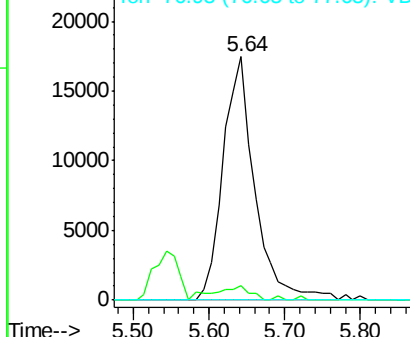
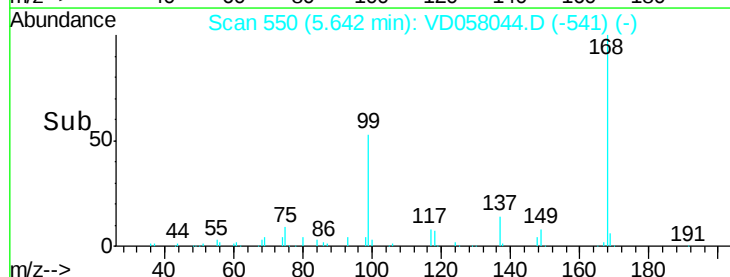
75 100

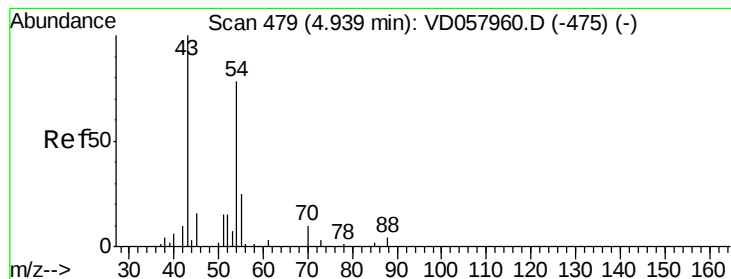
110 5.9 14.8 44.3#

77 0.0 23.9 35.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 4.732 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.10 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

Instrument :

MSVOA_D

ClientSampleId :

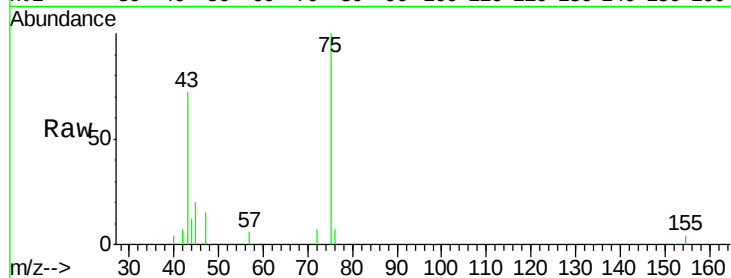
Tot Ion: 43 Resp: 22504

Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

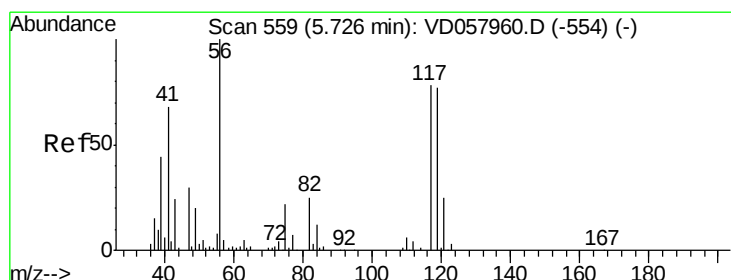
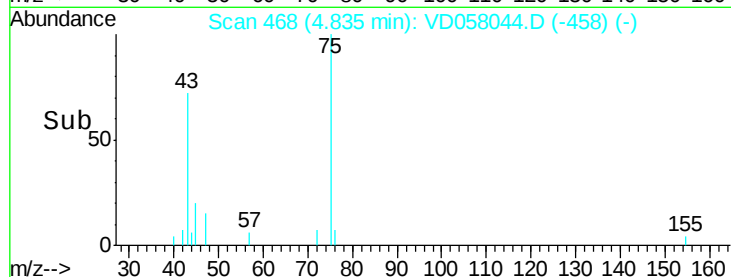
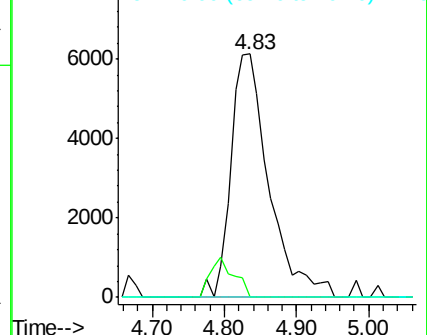
70 0.0 5.7 8.5#



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: 5.457 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.08 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

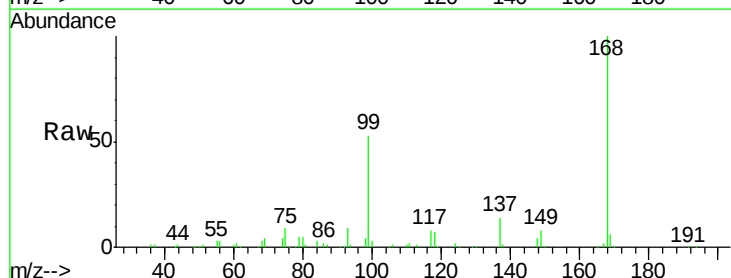
Tgt Ion: 117 Resp: 46881

Ion Ratio Lower Upper

117 100

119 3.6 76.1 114.1#

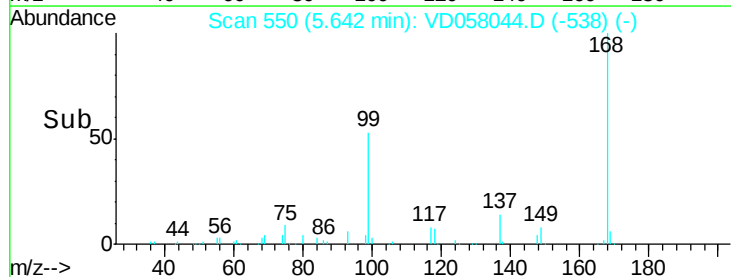
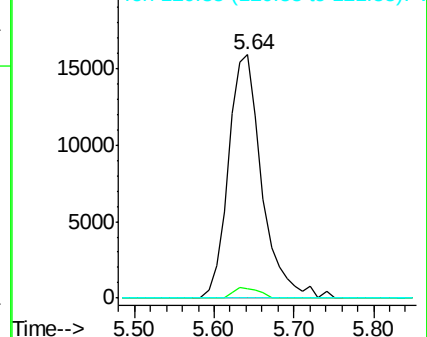
121 0.0 24.9 37.3#

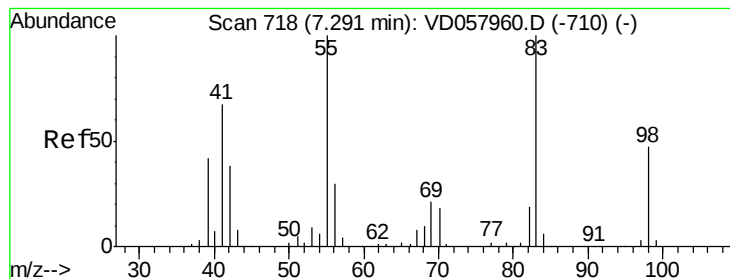


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#39

Methylcyclohexane

Concen: 1.124 ug/l

RT: 7.28 min Scan# 716

Delta R.T. -0.02 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

Instrument :

MSVOA_D

ClientSampled :

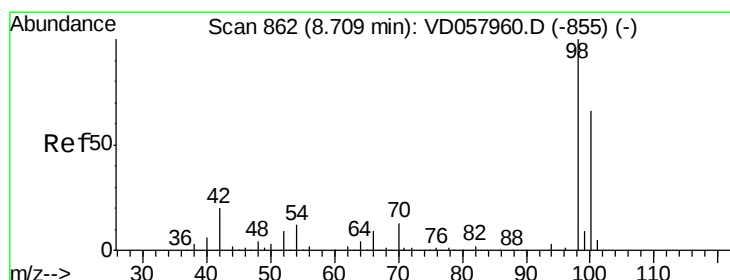
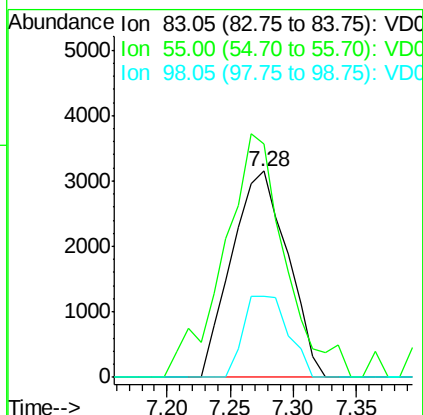
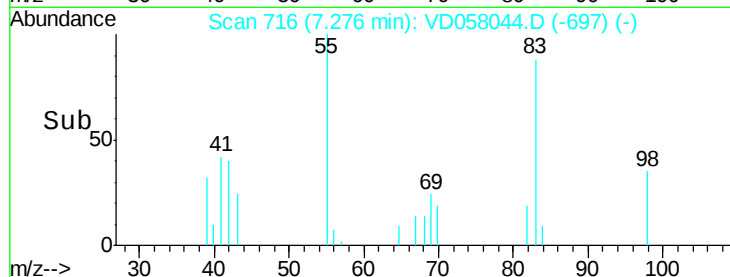
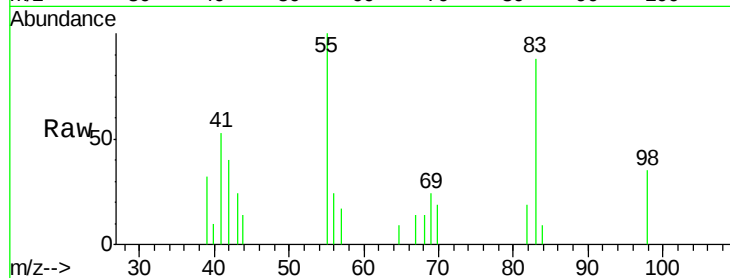
Tot Ion: 83 Resp: 9709

Ion Ratio Lower Upper

83 100

55 113.3 80.3 120.5

98 39.2 38.0 57.0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058044.D

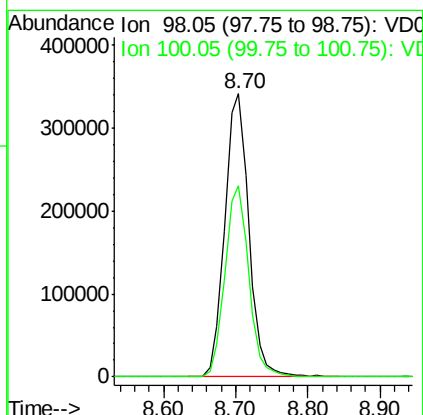
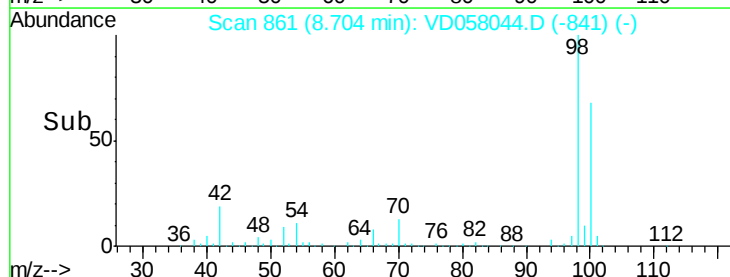
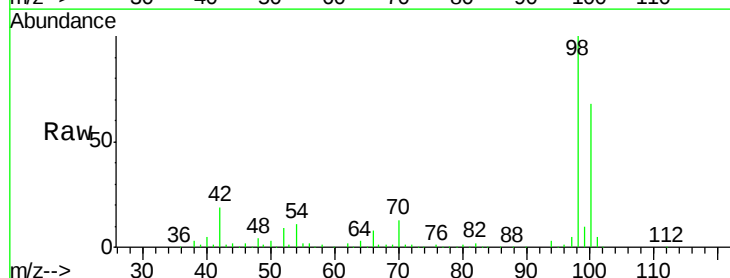
Acq: 9 Jun 2018 5:27

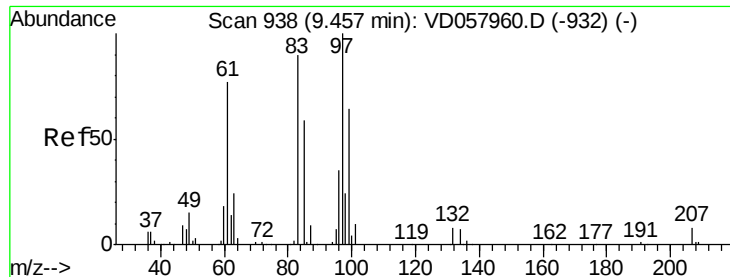
Tgt Ion: 98 Resp: 791118

Ion Ratio Lower Upper

98 100

100 67.5 53.4 80.0





#55

1,1,2-Trichloroethane

Concen: 3.348 ug/l

RT: 9.36 min Scan# 928

Delta R.T. -0.09 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 12662

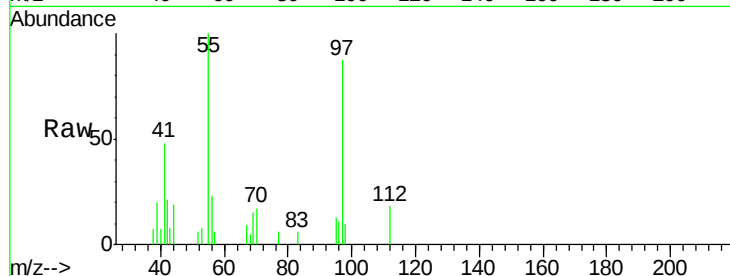
Ion Ratio Lower Upper

97 100

83 7.2 71.8 107.8#

85 0.0 47.2 70.8#

99 0.0 51.4 77.0#

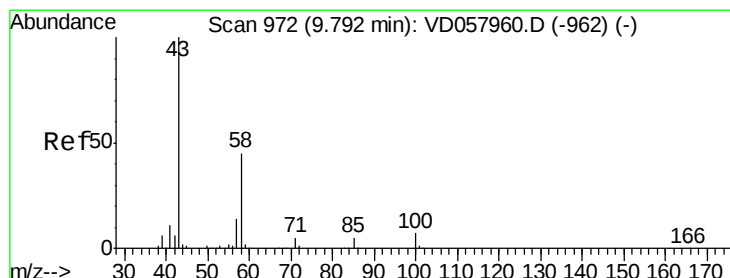
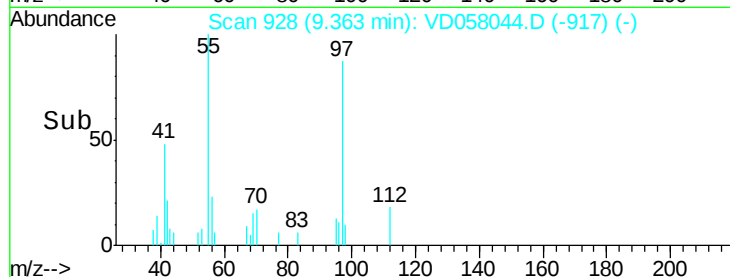
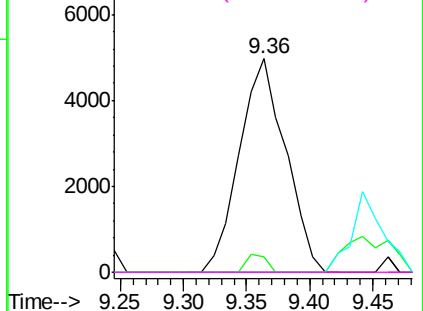


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#59

2-Hexanone

Concen: 3.619 ug/l

RT: 9.74 min Scan# 966

Delta R.T. -0.05 min

Lab File: VD058044.D

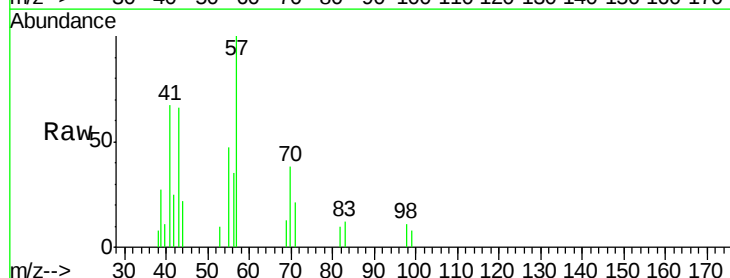
Acq: 9 Jun 2018 5:27

Tgt Ion: 43 Resp: 10597

Ion Ratio Lower Upper

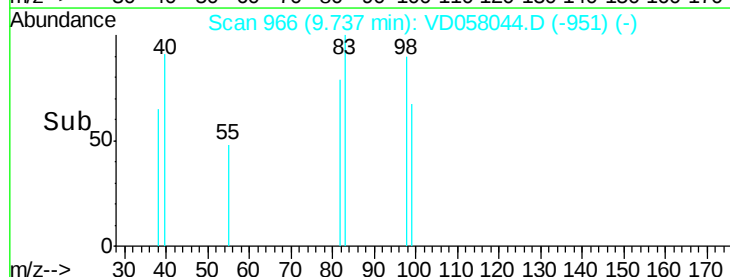
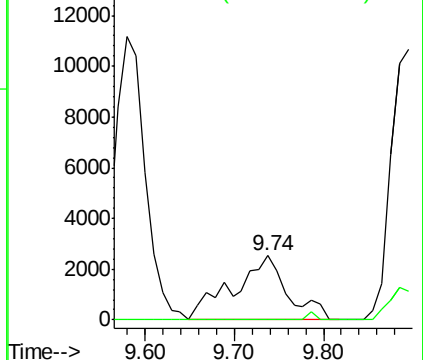
43 100

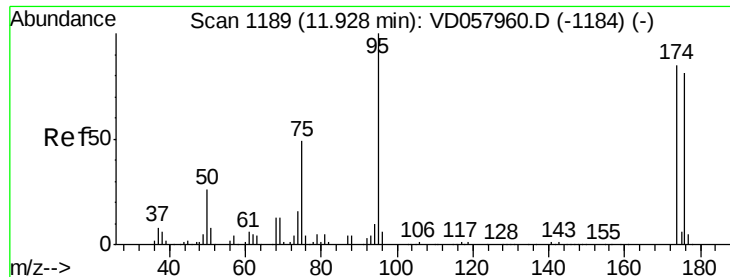
58 0.0 22.5 67.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

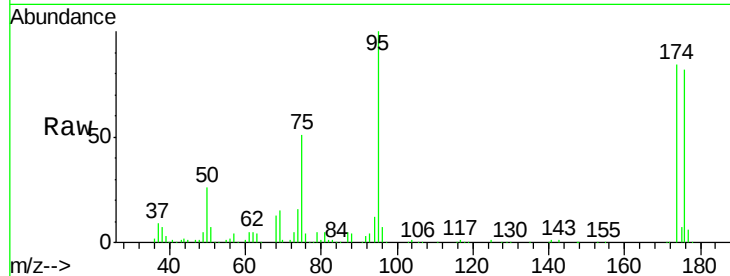




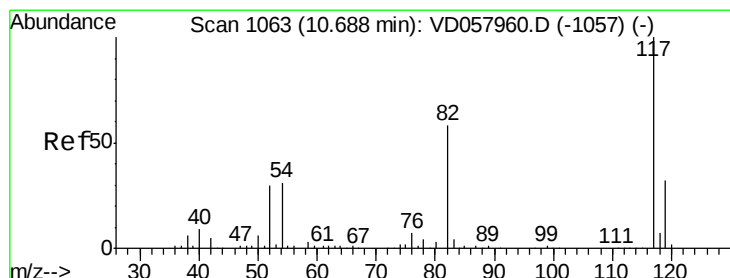
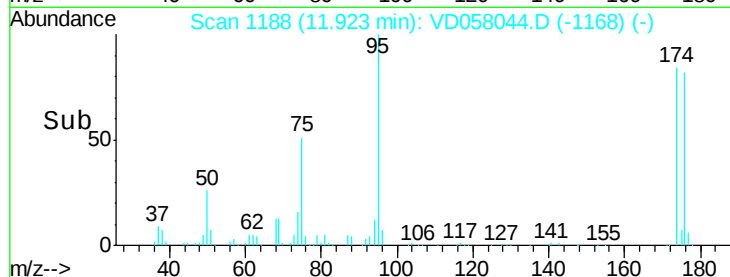
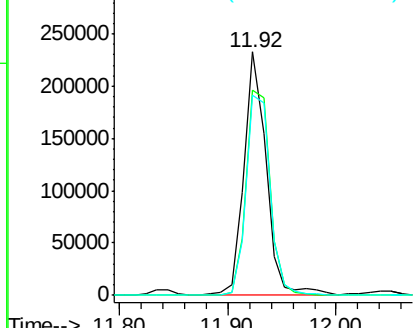
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.01 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 331037
Ion Ratio Lower Upper
95 100
174 84.3 0.0 169.4
176 82.2 0.0 162.6

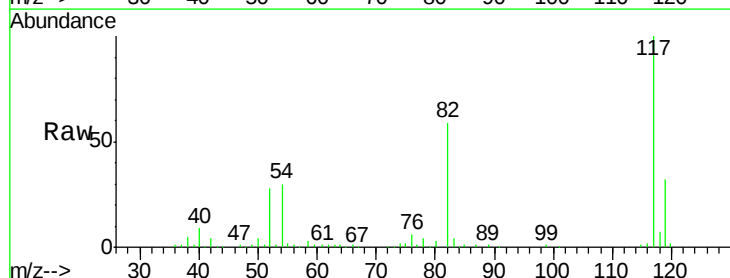


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

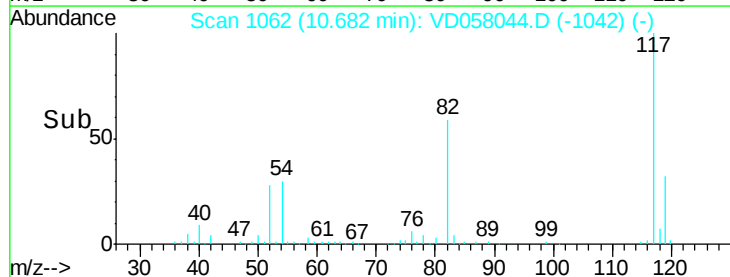
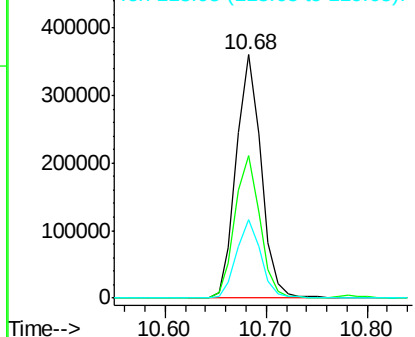


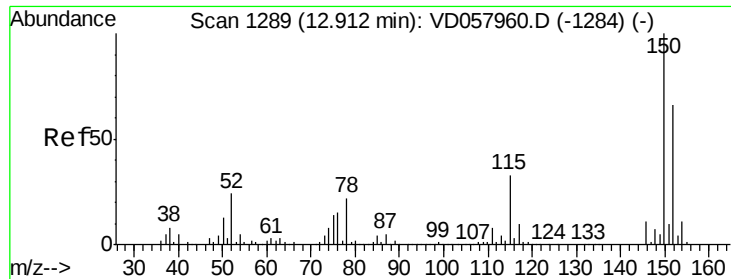
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

Tgt Ion: 117 Resp: 621050
Ion Ratio Lower Upper
117 100
82 58.5 46.8 70.2
119 32.4 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



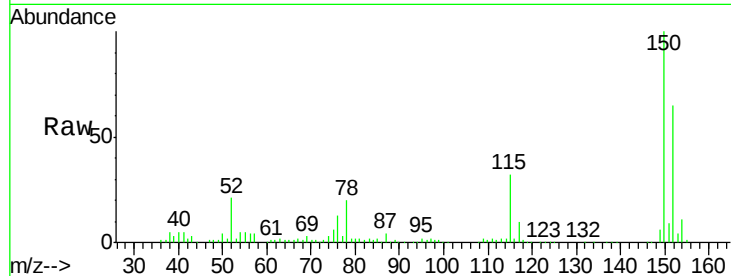


#72

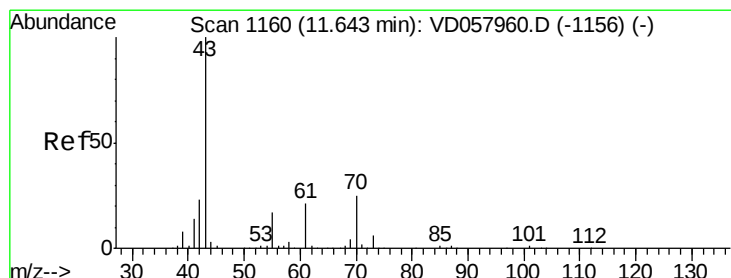
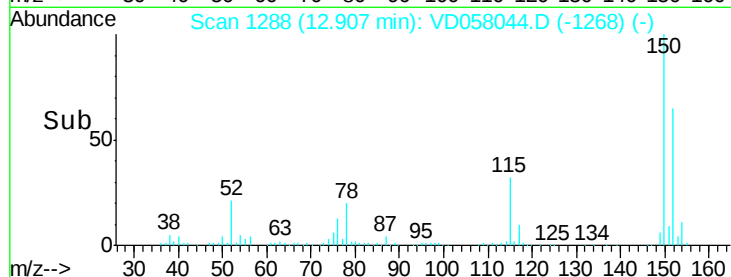
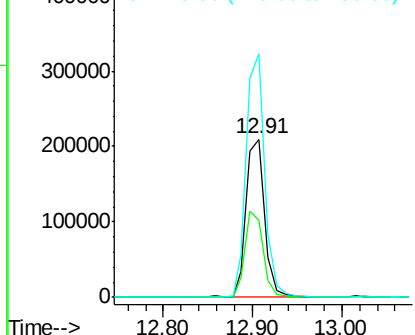
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 305301
Ion Ratio Lower Upper
152 100
115 49.0 25.6 76.6
150 154.1 0.0 306.8



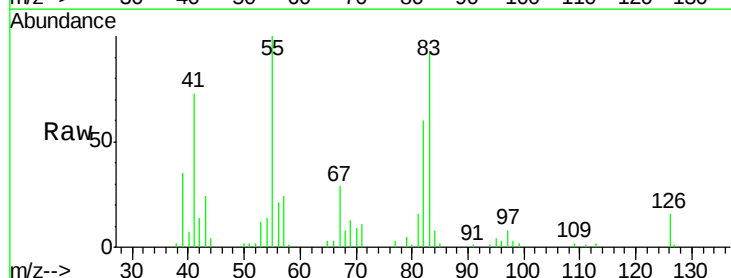
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



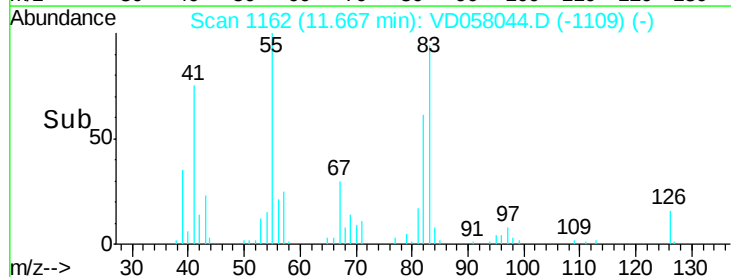
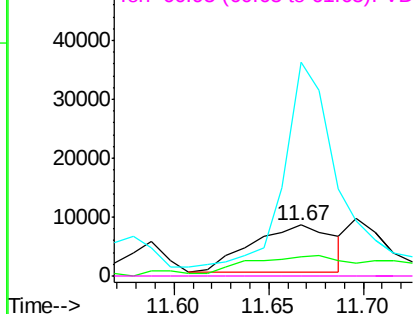
#74

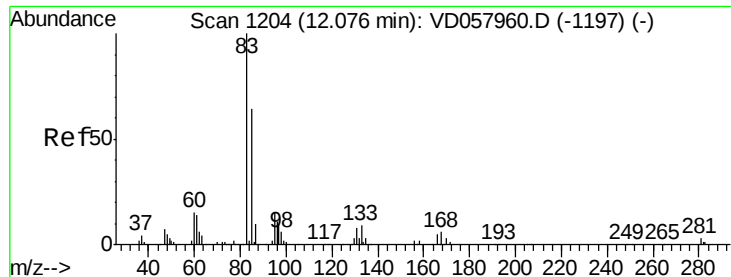
N-ethyl acetate
Concen: 3.083 ug/l
RT: 11.67 min Scan# 1162
Delta R.T. 0.02 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

Tgt Ion: 43 Resp: 24053
Ion Ratio Lower Upper
43 100
70 38.7 20.3 30.5#
55 417.6 13.9 20.9#
61 0.0 16.6 24.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 2.399 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

Instrument :

MSVOA_D

ClientSampleId :

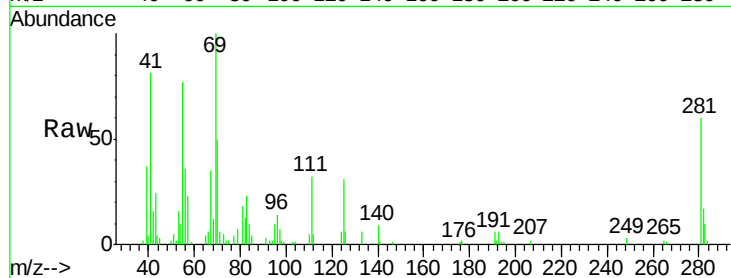
Tot Ion: 83 Resp: 10579

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.6#

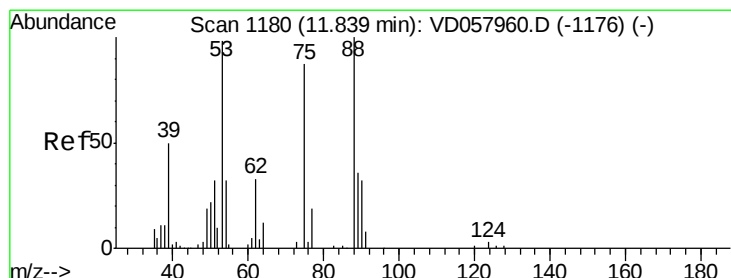
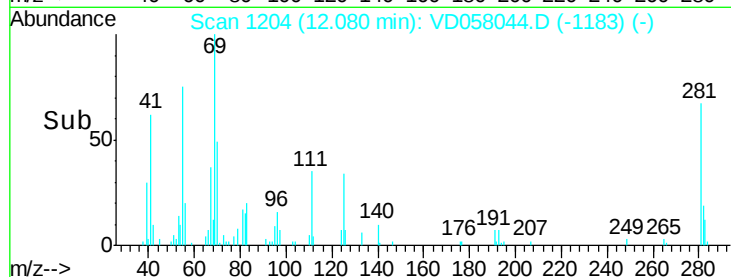
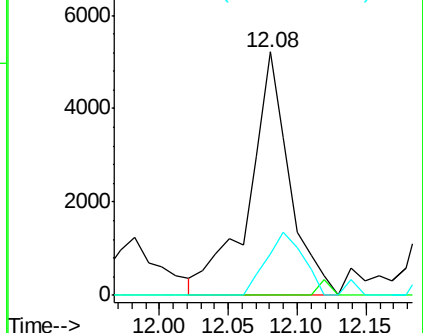
85 16.8 31.9 95.5#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 136.772 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD058044.D

Acq: 9 Jun 2018 5:27

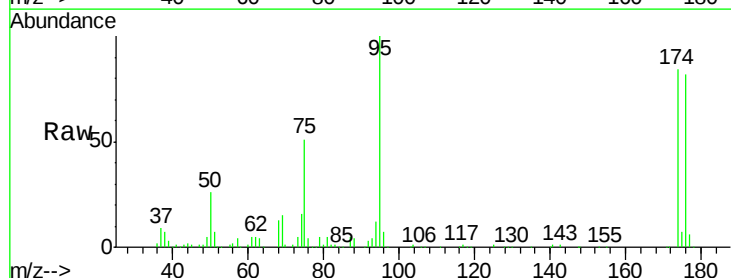
Tgt Ion: 75 Resp: 155359

Ion Ratio Lower Upper

75 100

53 0.4 89.3 133.9#

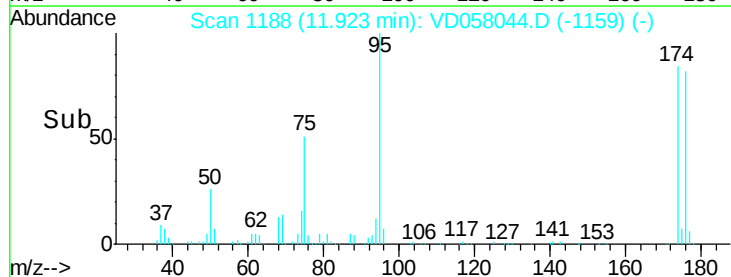
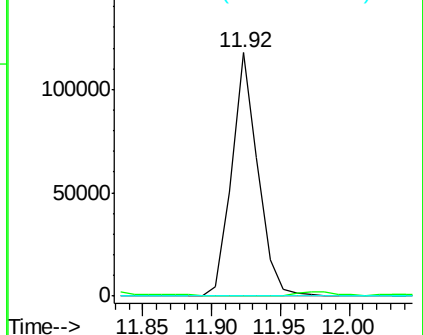
89 0.0 33.3 49.9#

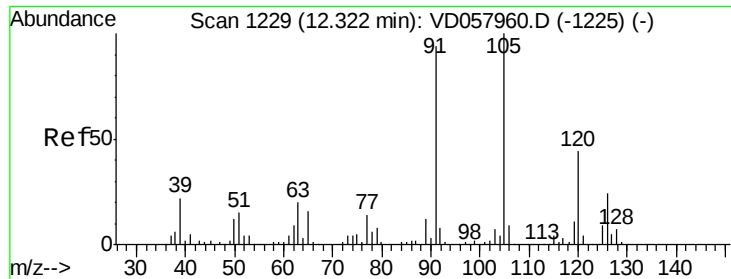


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

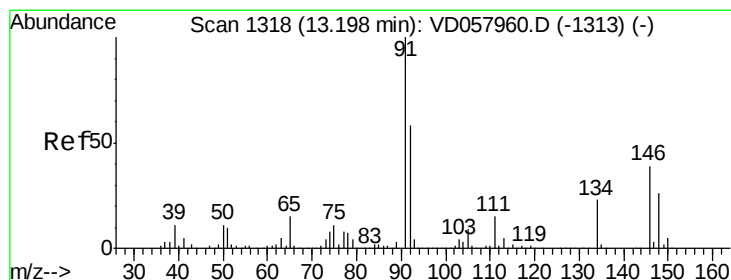
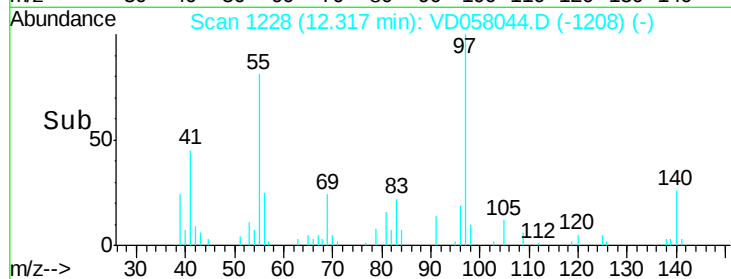
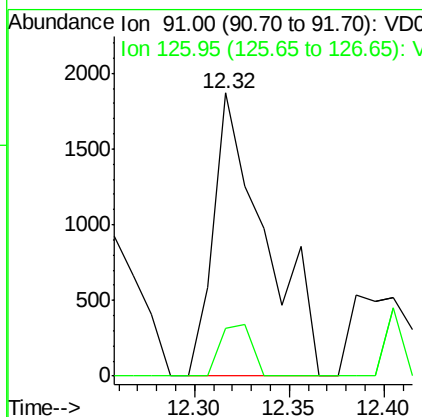
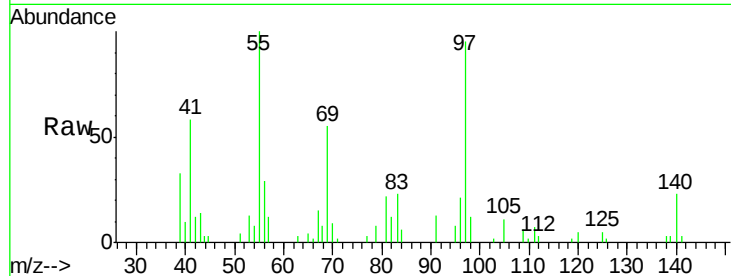




#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.32 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

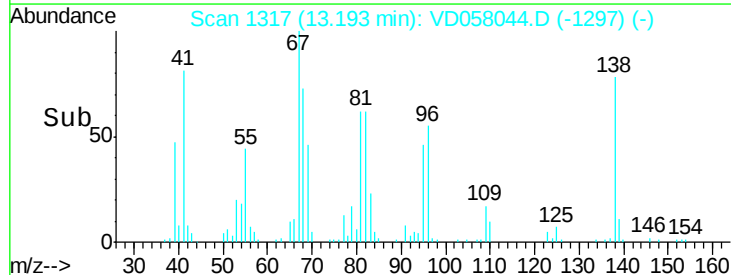
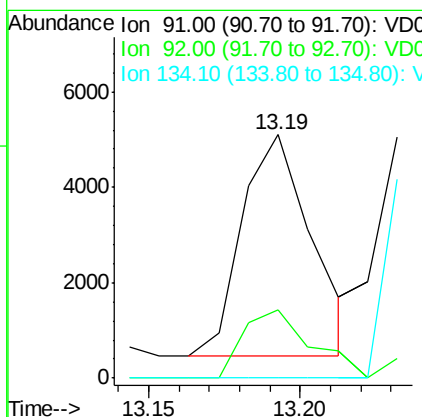
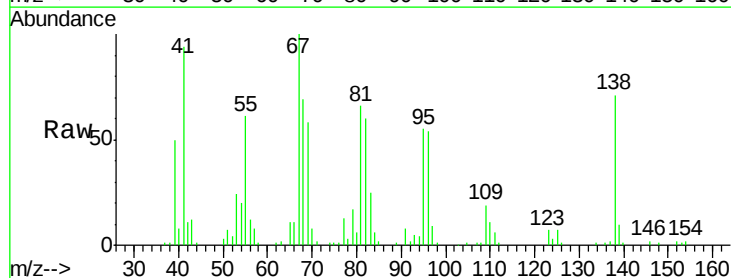
Instrument :
MSVOA_D
ClientSampled :

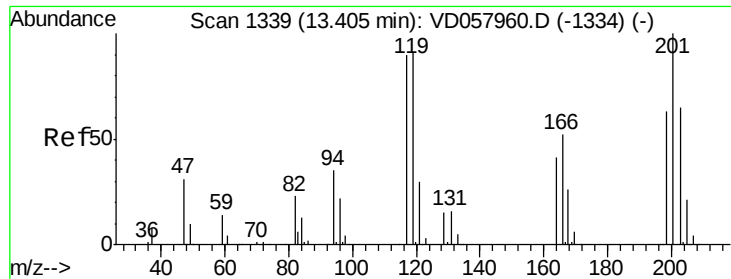
Tot Ion: 91 Resp: 3548
Ion Ratio Lower Upper
91 100
126 16.8 12.5 37.5



#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

Tgt Ion: 91 Resp: 7449
Ion Ratio Lower Upper
91 100
92 28.1 29.2 87.6#
134 0.0 11.3 33.9#

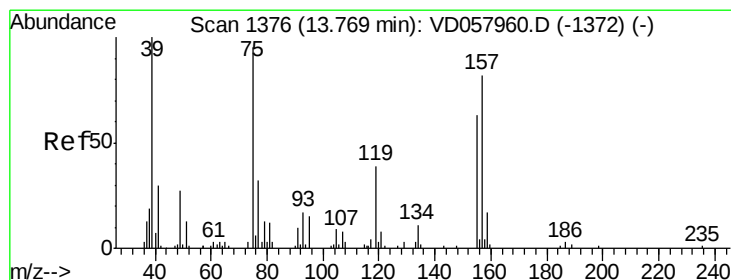
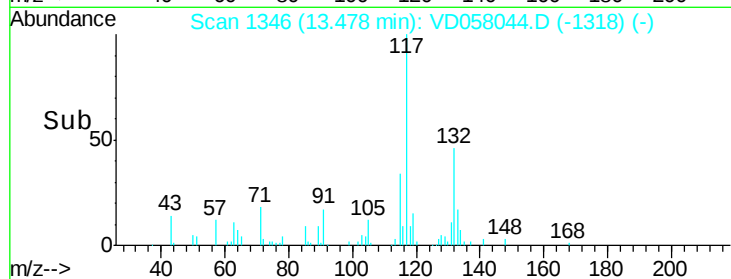
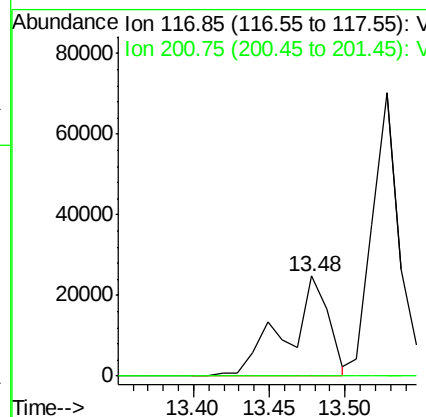
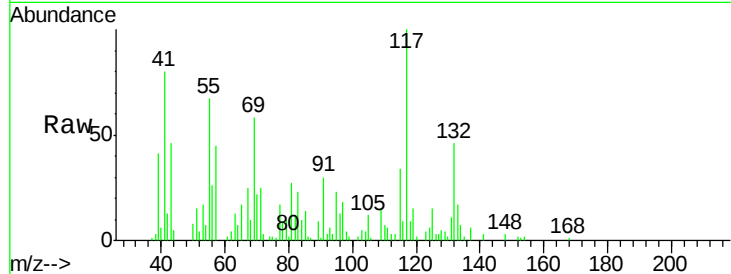




#90
Hexachloroethane
Concen: 10.740 ug/l
RT: 13.48 min Scan# 1346
Delta R.T. 0.07 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

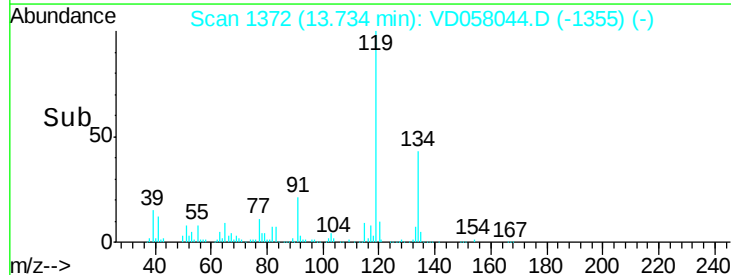
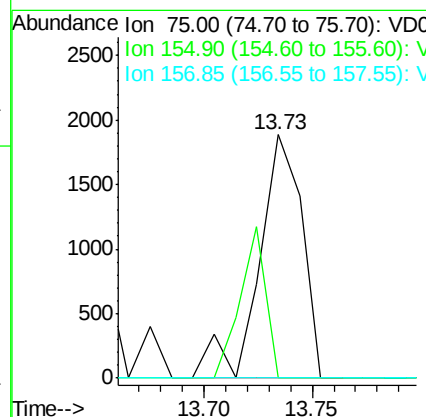
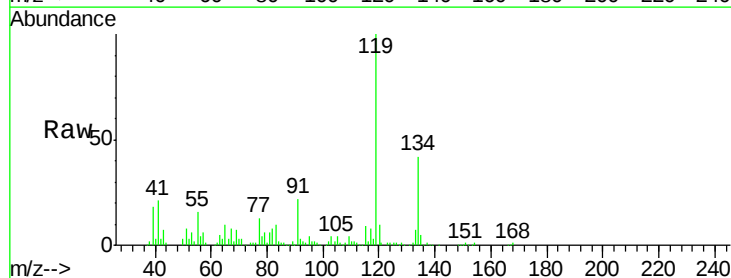
Instrument :
MSVOA_D
ClientSampleId :

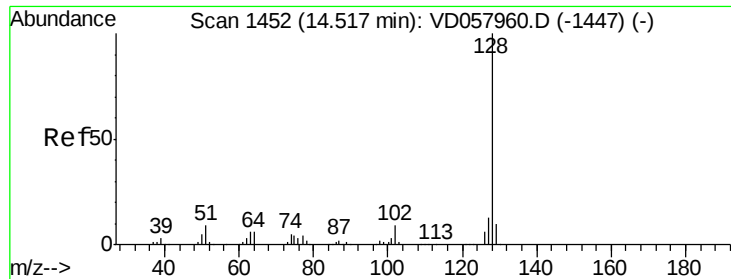
Tot Ion:117 Resp: 47480
Ion Ratio Lower Upper
117 100
201 0.0 55.4 166.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 3.783 ug/l
RT: 13.73 min Scan# 1372
Delta R.T. -0.03 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

Tgt Ion: 75 Resp: 2574
Ion Ratio Lower Upper
75 100
155 0.0 33.4 100.1#
157 0.0 42.9 128.5#

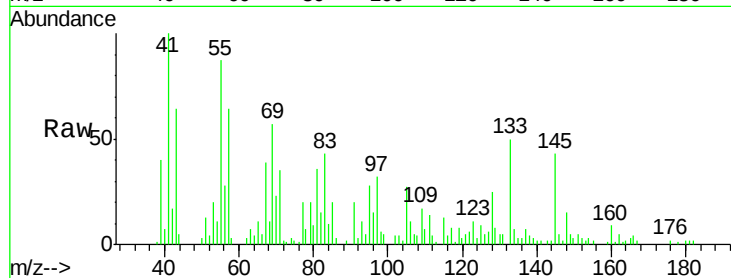




#95
Naphthalene
Concen: 1.087 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD058044.D
Acq: 9 Jun 2018 5:27

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 10714
Ion Ratio Lower Upper
128 100
127 25.0 10.2 15.2#
129 30.5 8.2 12.2#



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

