

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD091815\
 Data File : VD046785.D
 Acq On : 18 Sep 2015 16:30
 Operator : FY/SY
 Sample : VD0918SBL01
 Misc : 5.00qm/5mL/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 18 19:31:17 2015
 Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:47:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.31	168	183535	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.43	114	264021	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	246827	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.92	152	122009	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.72	65	110897	58.12	ug/l	0.01
Spiked Amount			Recovery	=	116.24%	
35) Dibromofluoromethane	6.22	113	111152	53.81	ug/l	0.00
Spiked Amount			Recovery	=	107.62%	
50) Toluene-d8	9.62	98	356349	54.68	ug/l	0.00
Spiked Amount			Recovery	=	109.36%	
62) 4-Bromofluorobenzene	12.85	95	131523	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	

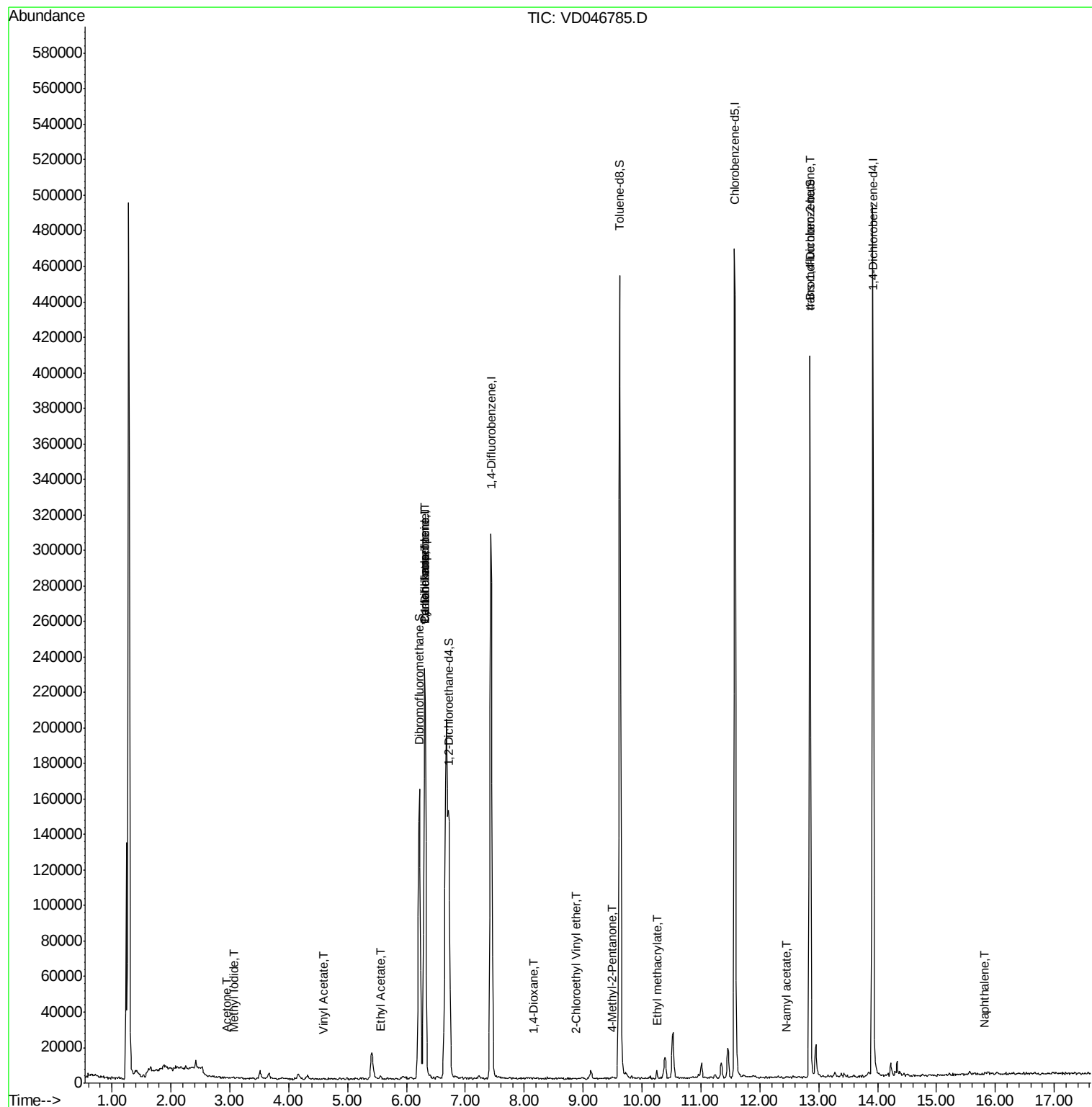
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	664	Below Cal		90
3) Chlorodifluoromethane	1.44	51	340	Below Cal	#	66
6) Bromomethane	1.98	94	494	Below Cal	#	47
11) Methyl Iodide	3.06	142	237	1.84	ug/l	9
12) Tert butyl alcohol	3.65	59	2232	Below Cal	#	86
17) Acetone	2.95	43	1120	3.47	ug/l	56
24) Vinyl Acetate	4.58	43	161	15.12	ug/l	82
31) Cyclohexane	6.31	56	4767	1.66	ug/l	1
36) 1,1-Dichloropropene	6.31	75	16841	5.46	ug/l	52
37) Ethyl Acetate	5.55	43	1777	1.79	ug/l	83
38) Carbon Tetrachloride	6.31	117	16998	5.30	ug/l	18
49) 1,4-Dioxane	8.15	88	46	6.23	ug/l	20
51) 4-Methyl-2-Pentanone	9.49	43	1115	1.18	ug/l	73
56) Ethyl methacrylate	10.25	69	216	4.03	ug/l	85
58) 2-Chloroethyl Vinyl ether	8.89	63	96	6.48	ug/l	53
74) N-amyl acetate	12.45	43	187	4.79	ug/l	54
81) trans-1,4-Dichloro-2-buten	12.84	75	66090	153.32	ug/l	9
95) Naphthalene	15.83	128	780	2.67	ug/l	71

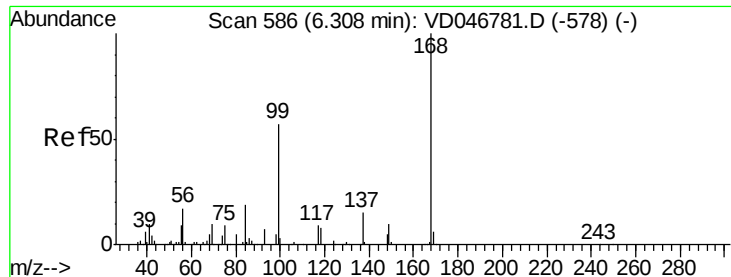
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.31 min Scan# 586

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

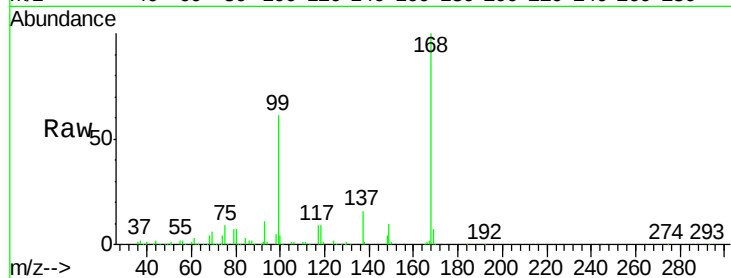
ClientSampleId :

Tot Ion:168 Resp: 183535

Ion Ratio Lower Upper

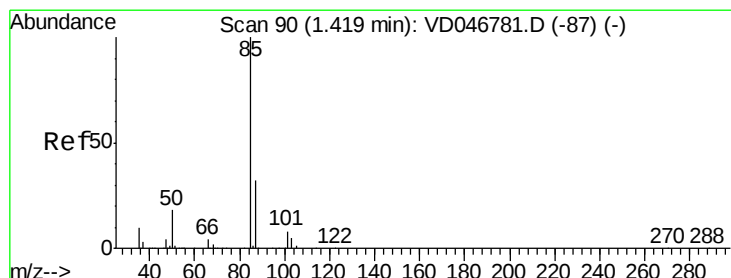
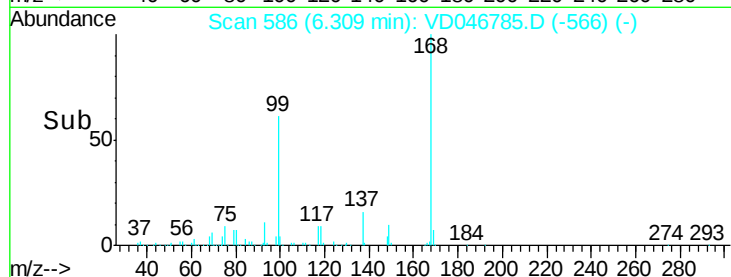
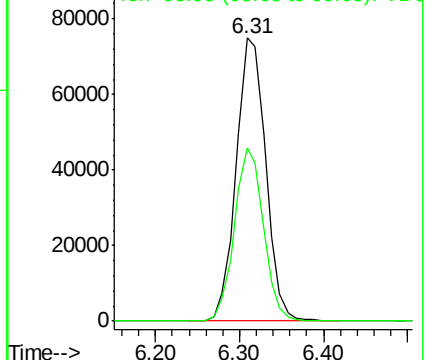
168 100

99 61.3 42.4 63.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.00 min

Lab File: VD046785.D

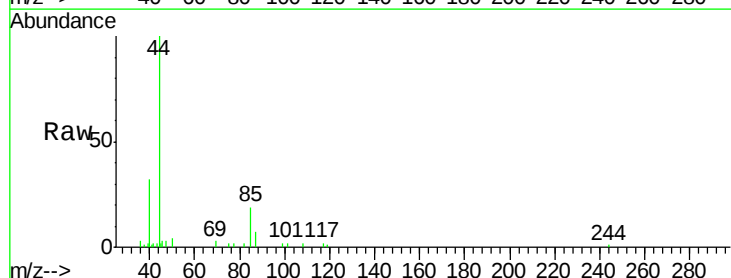
Acq: 18 Sep 2015 16:30

Tgt Ion: 85 Resp: 664

Ion Ratio Lower Upper

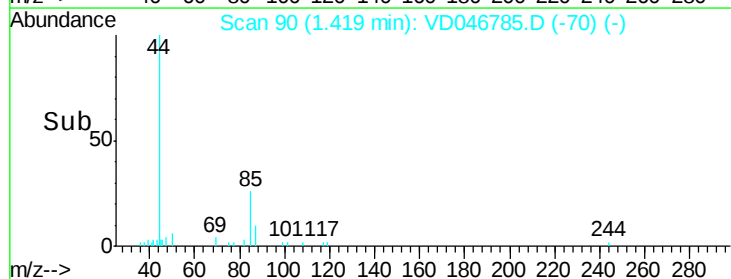
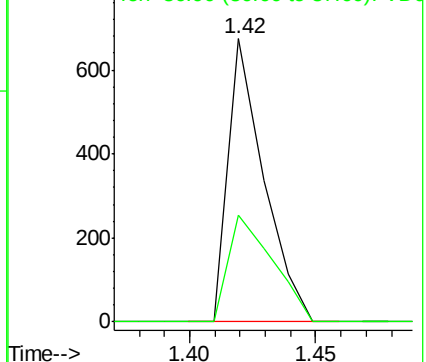
85 100

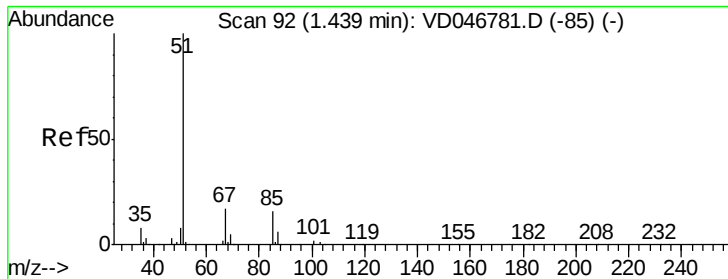
87 37.8 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.44 min Scan# 92

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

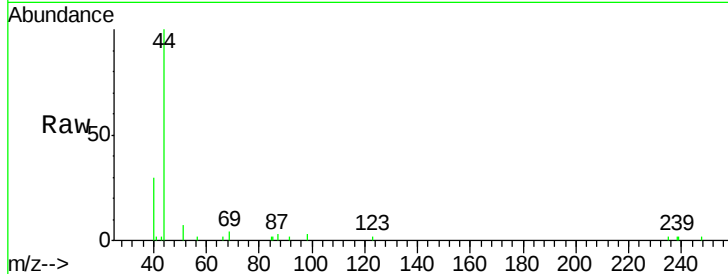
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 51 Resp: 340

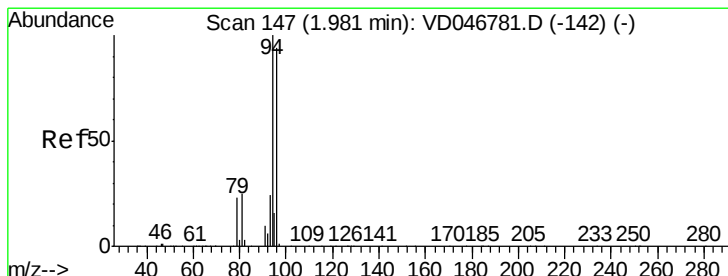
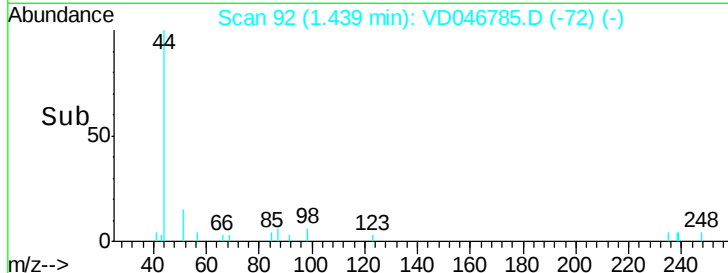
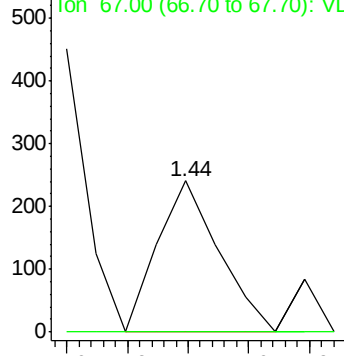
Ion Ratio Lower Upper

51 100

67 0.0 10.9 16.3#



Abundance Ion 51.00 (50.70 to 51.70): VDC
Ion 67.00 (66.70 to 67.70): VDC



#6

Bromomethane

Concen: Below Cal

RT: 1.98 min Scan# 147

Delta R.T. 0.00 min

Lab File: VD046785.D

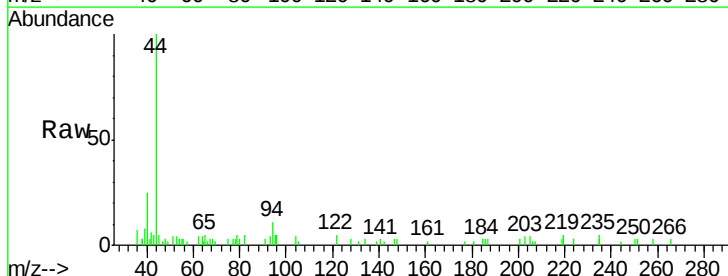
Acq: 18 Sep 2015 16:30

Tgt Ion: 94 Resp: 494

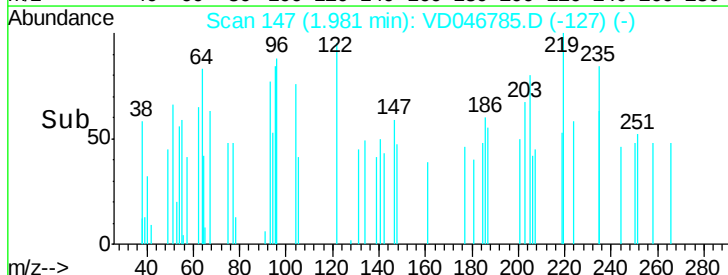
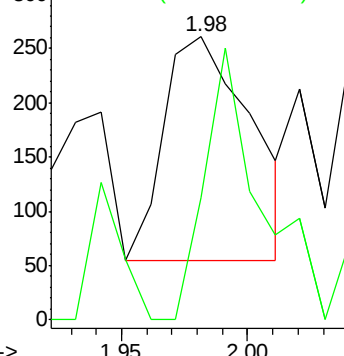
Ion Ratio Lower Upper

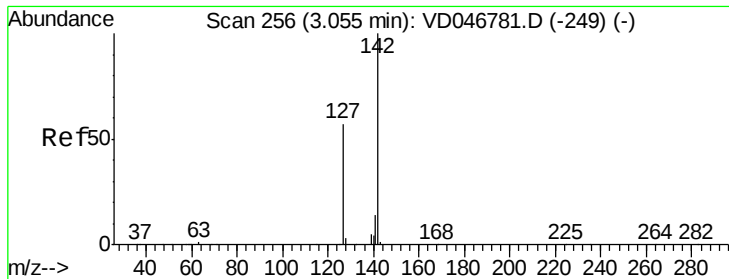
94 100

96 43.3 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC

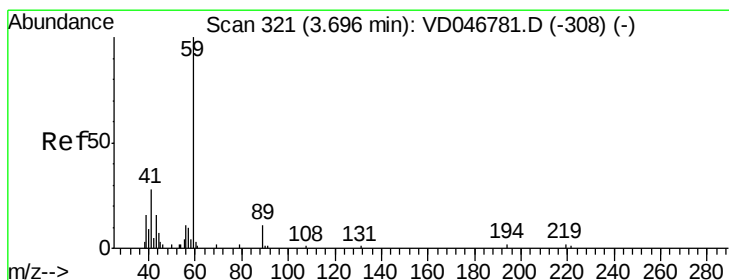
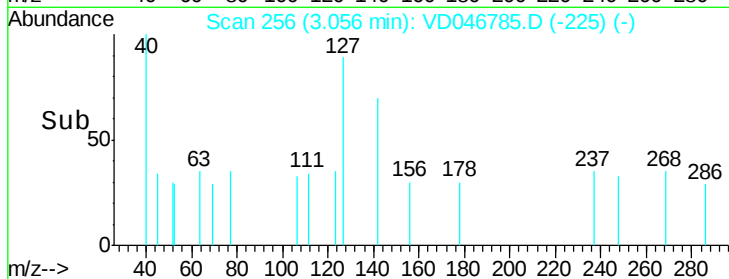
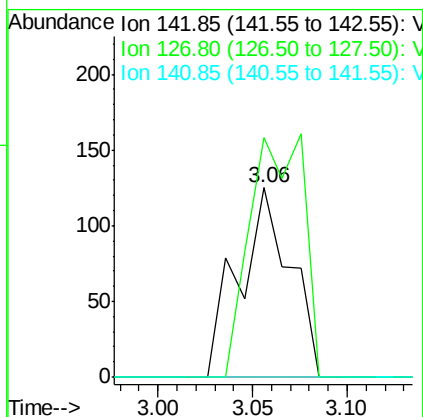
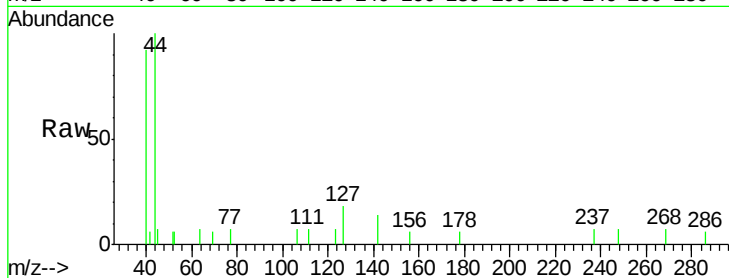




#11
Methvl Iodide
Concen: 1.84 ua/l
RT: 3.06 min Scan# 256
Delta R.T. 0.00 min
Lab File: VD046785.D
Acq: 18 Sep 2015 16:30

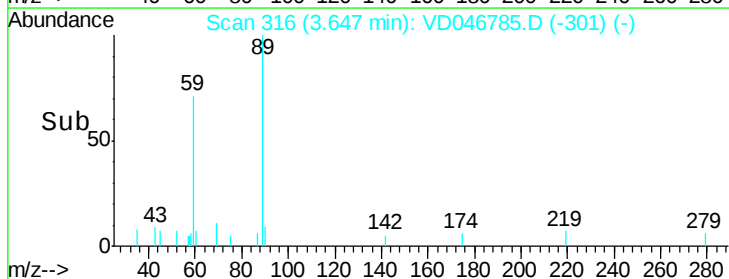
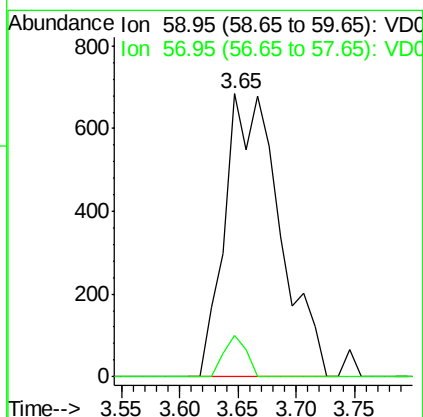
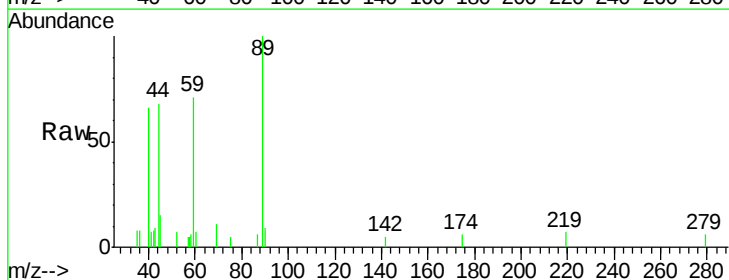
Instrument :
MSVOA_D
ClientSampled :

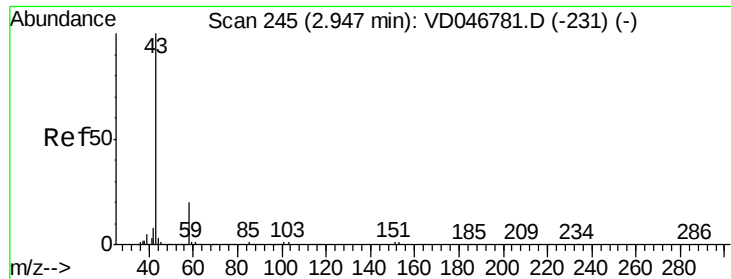
Tot Ion:142 Resp: 237
Ion Ratio Lower Upper
142 100
127 126.4 41.2 61.8#
141 0.0 11.6 17.4#



#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.65 min Scan# 316
Delta R.T. -0.05 min
Lab File: VD046785.D
Acq: 18 Sep 2015 16:30

Tgt Ion: 59 Resp: 2232
Ion Ratio Lower Upper
59 100
57 14.8 7.8 11.6#





#17

Acetone

Concen: 3.47 ug/l

RT: 2.95 min Scan# 245

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

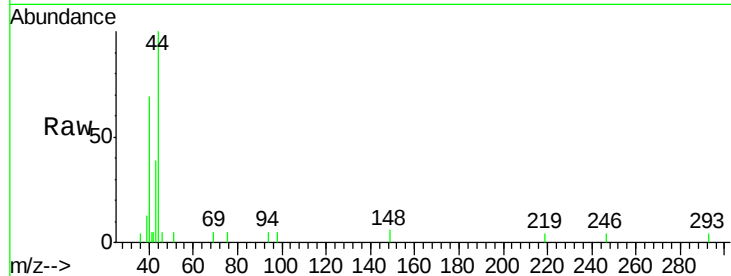
ClientSampled :

Tot Ion: 43 Resp: 1120

Ion Ratio Lower Upper

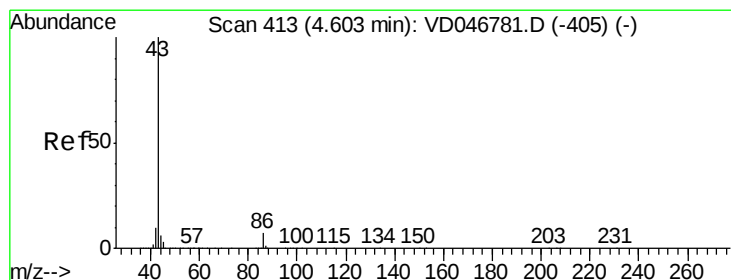
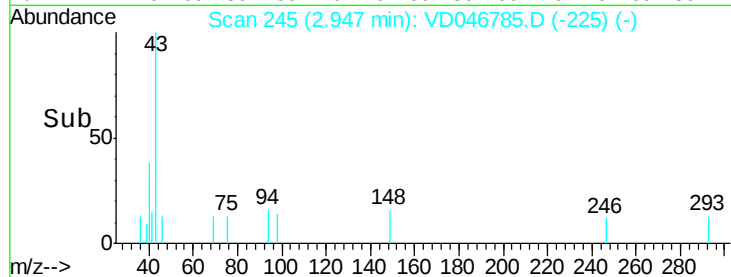
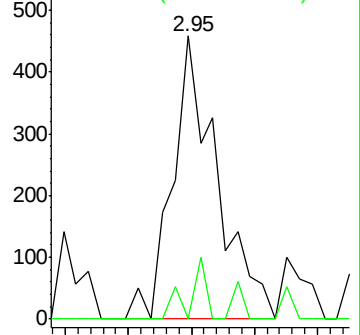
43 100

58 0.0 16.6 24.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#24

Vinyl Acetate

Concen: 15.12 ug/l

RT: 4.58 min Scan# 411

Delta R.T. -0.02 min

Lab File: VD046785.D

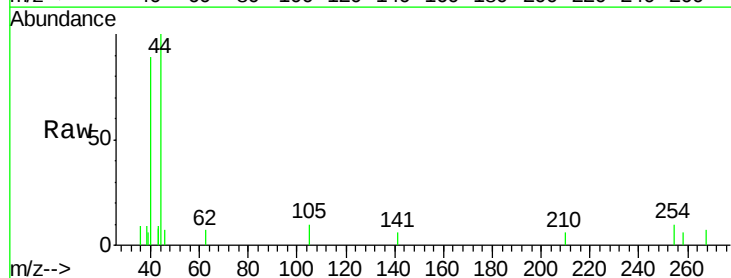
Acq: 18 Sep 2015 16:30

Tgt Ion: 43 Resp: 161

Ion Ratio Lower Upper

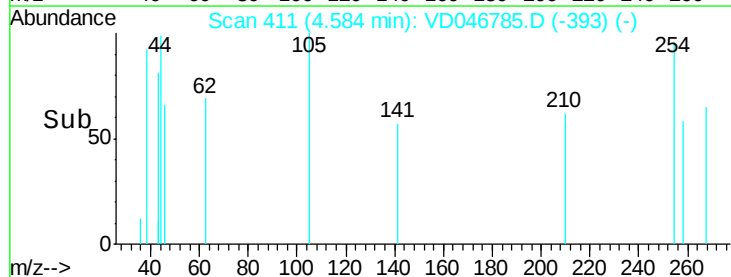
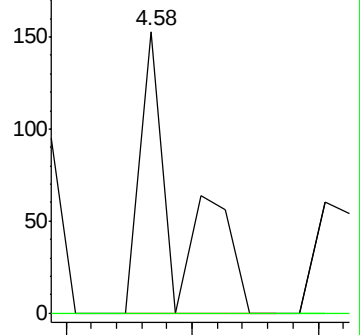
43 100

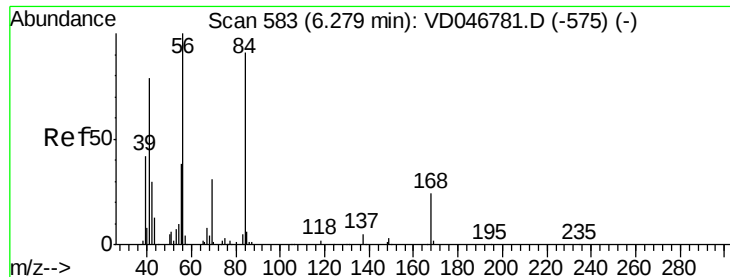
86 0.0 4.9 7.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

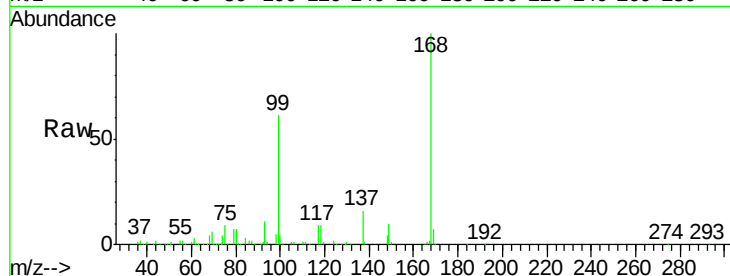




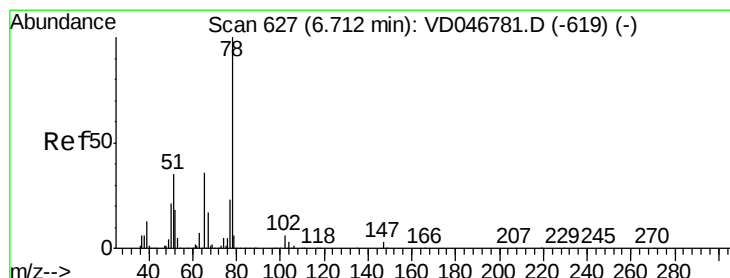
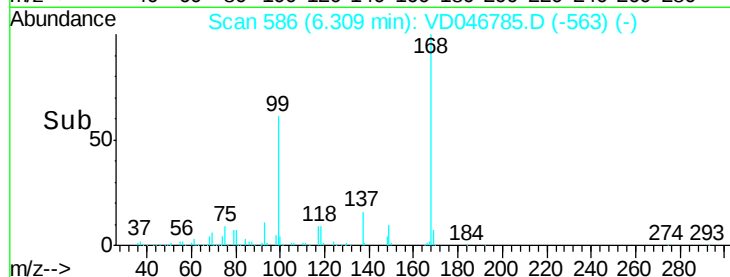
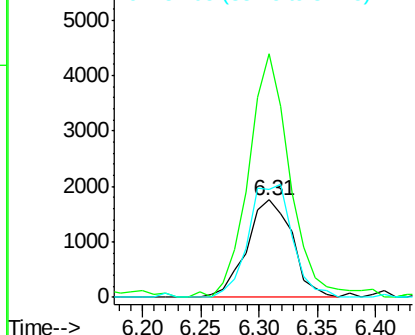
#31
Cyclohexane
Concen: 1.66 ug/l
RT: 6.31 min Scan# 586
Delta R.T. 0.03 min
Lab File: VD046785.D
Acq: 18 Sep 2015 16:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 4767
Ion Ratio Lower Upper
56 100
69 249.6 23.4 35.0#
84 110.2 63.8 95.8#

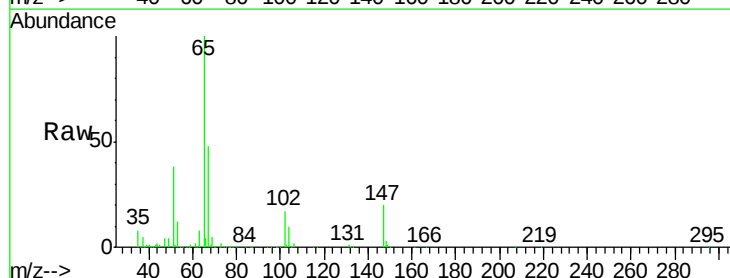


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

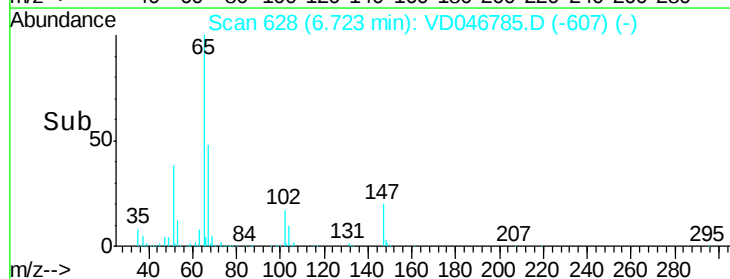
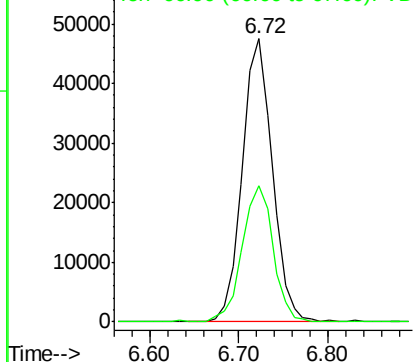


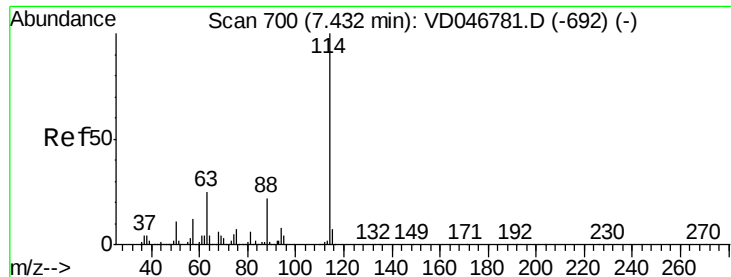
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.72 min Scan# 628
Delta R.T. 0.01 min
Lab File: VD046785.D
Acq: 18 Sep 2015 16:30

Tgt Ion: 65 Resp: 110897
Ion Ratio Lower Upper
65 100
67 48.1 0.0 105.4



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.43 min Scan# 700

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

ClientSampleId :

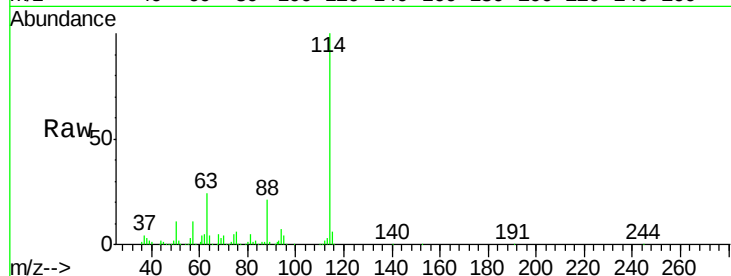
Tot Ion:114 Resp: 264021

Ion Ratio Lower Upper

114 100

63 23.9 0.0 49.8

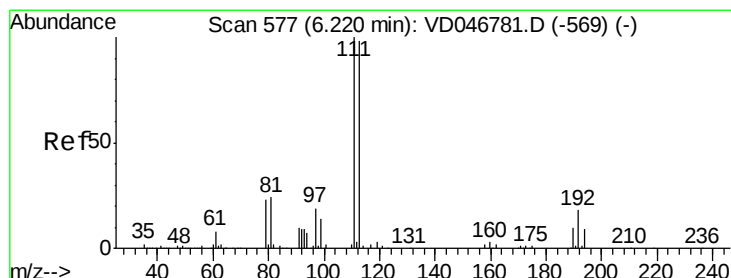
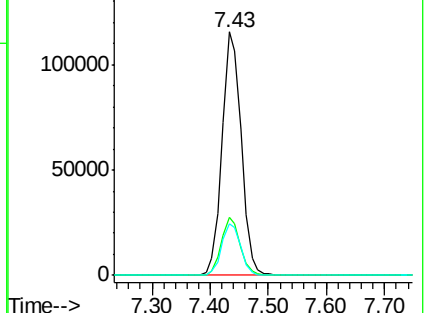
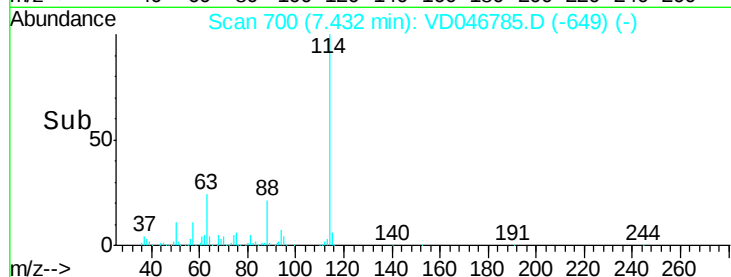
88 21.1 0.0 43.6



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: 50.00 ug/l

RT: 6.22 min Scan# 577

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

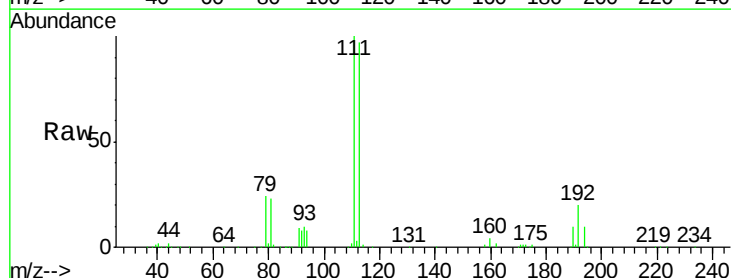
Tgt Ion:113 Resp: 111152

Ion Ratio Lower Upper

113 100

111 103.3 79.4 119.0

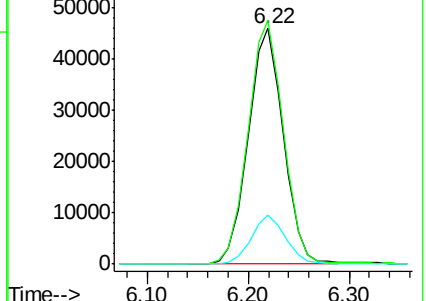
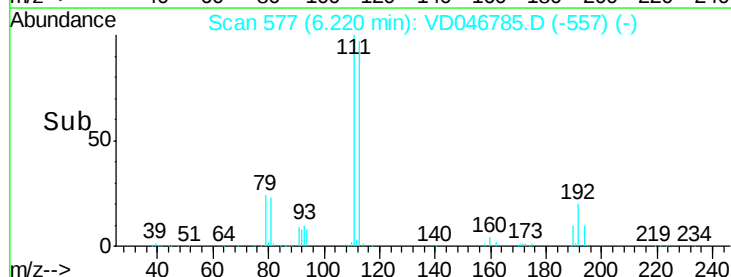
192 20.6 14.6 22.0

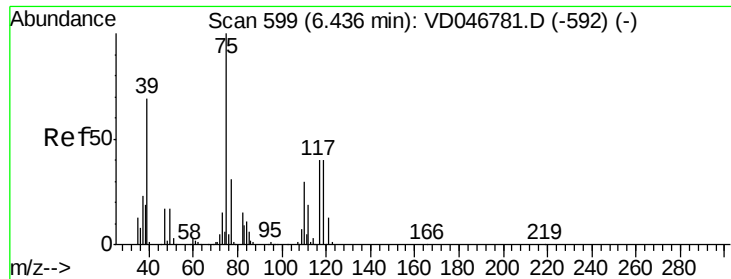


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.46 ug/l

RT: 6.31 min Scan# 586

Delta R.T. -0.13 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

ClientSampleId :

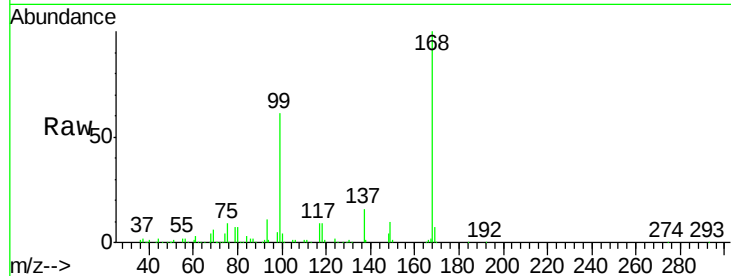
Tot Ion: 75 Resp: 16841

Ion Ratio Lower Upper

75 100

110 7.7 13.7 41.0#

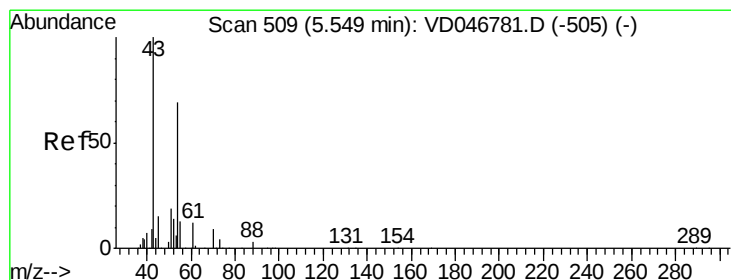
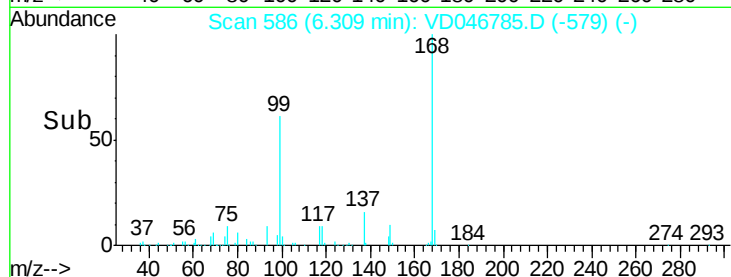
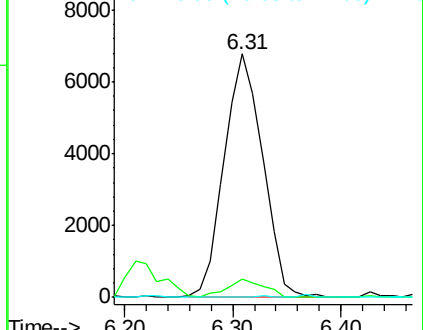
77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.79 ug/l

RT: 5.55 min Scan# 509

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

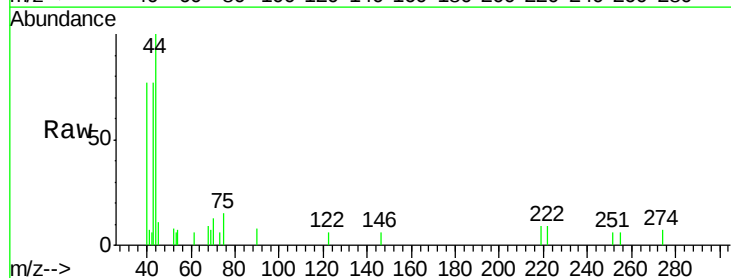
Tgt Ion: 43 Resp: 1777

Ion Ratio Lower Upper

43 100

61 7.7 9.4 14.2#

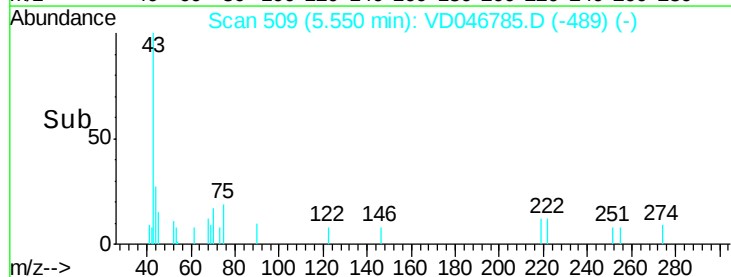
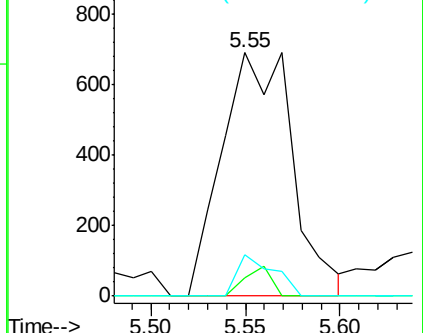
70 17.0 6.0 9.0#

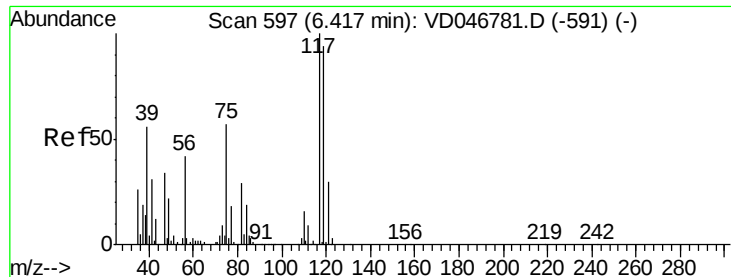


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.30 ug/l

RT: 6.31 min Scan# 586

Delta R.T. -0.11 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

ClientSampleId :

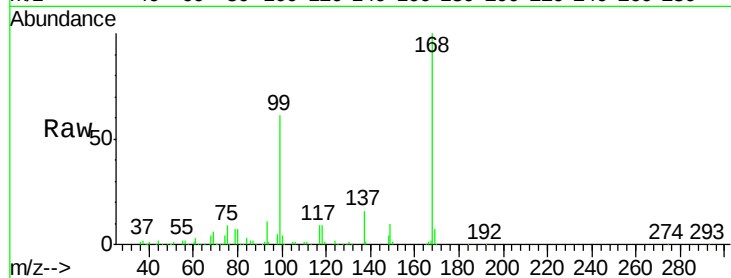
Tot Ion:117 Resp: 16998

Ion Ratio Lower Upper

117 100

119 6.8 76.2 114.4#

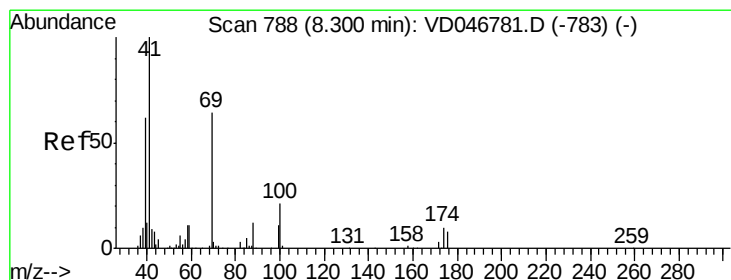
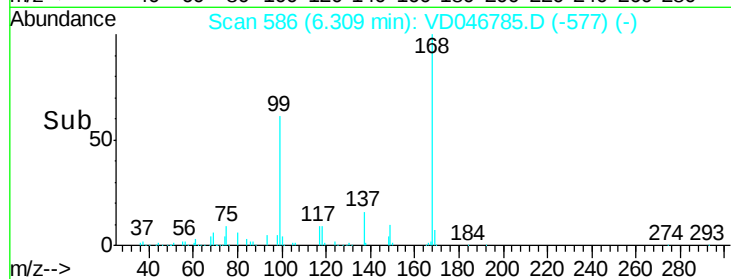
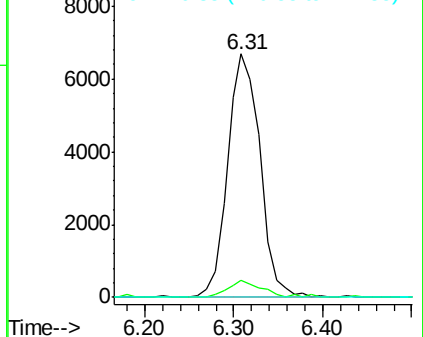
121 0.0 24.5 36.7#



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



#49

1,4-Dioxane

Concen: 6.23 ug/l

RT: 8.15 min Scan# 773

Delta R.T. -0.15 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

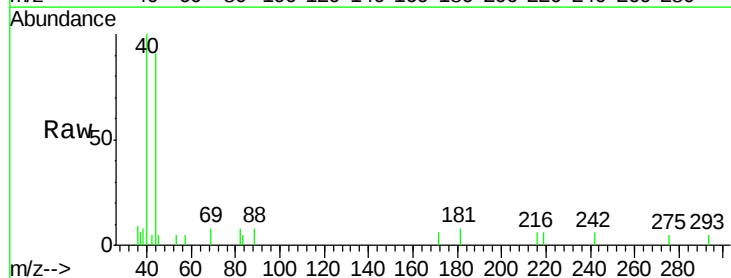
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

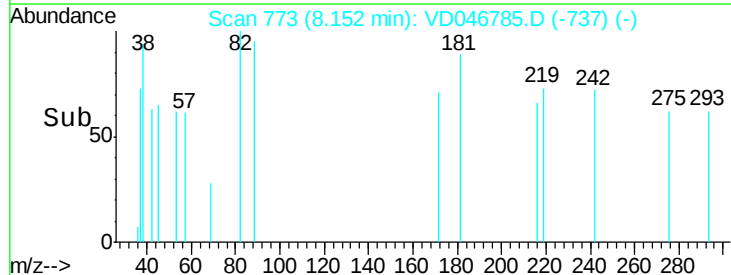
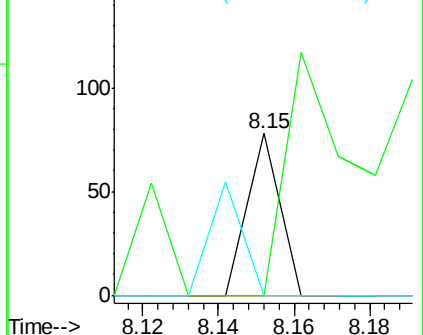
58 0.0 48.3 72.5#

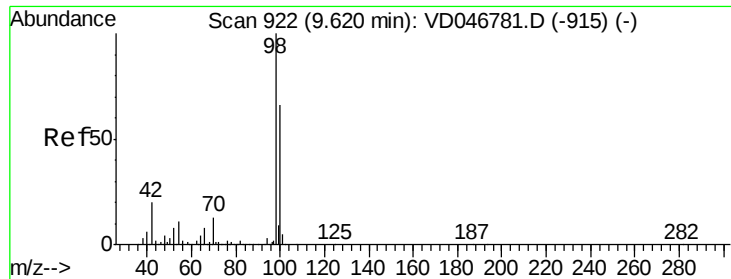


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 6.23 ug/l

RT: 9.62 min Scan# 922

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

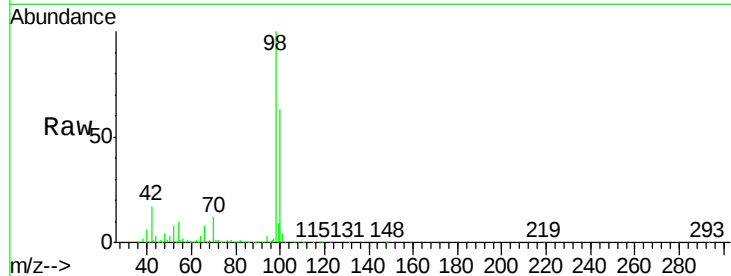
ClientSampleId :

Tot Ion: 98 Resp: 356349

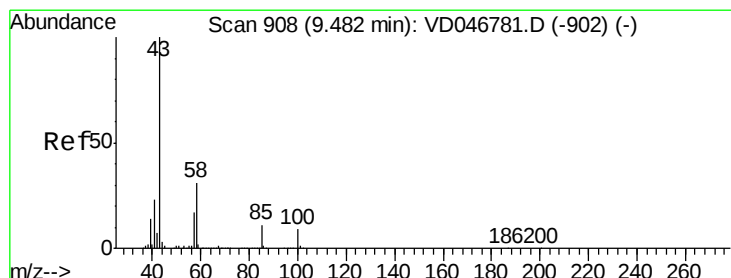
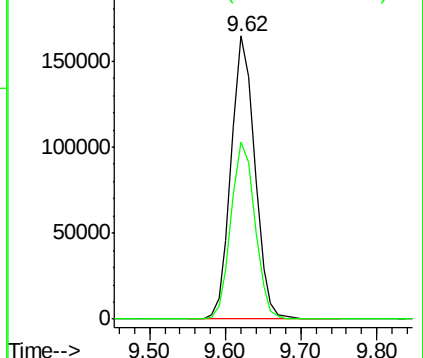
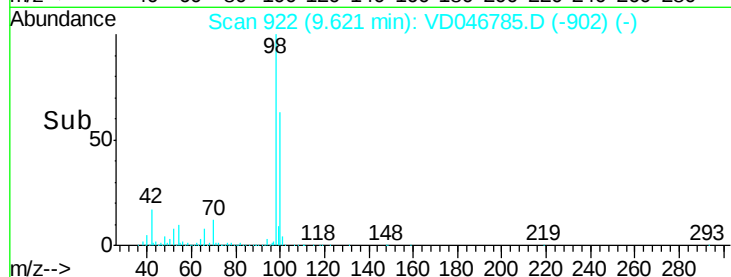
Ion Ratio Lower Upper

98 100

100 62.6 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VD046785.D (-902) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.18 ug/l

RT: 9.49 min Scan# 909

Delta R.T. 0.01 min

Lab File: VD046785.D

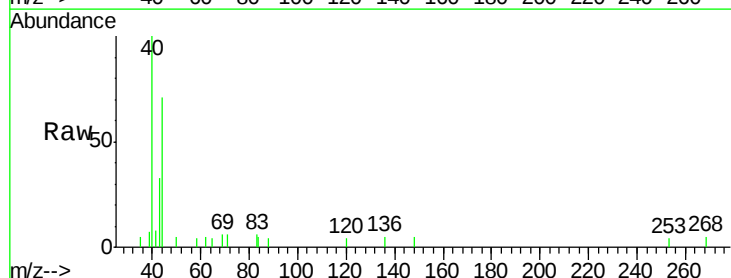
Acq: 18 Sep 2015 16:30

Tgt Ion: 43 Resp: 1115

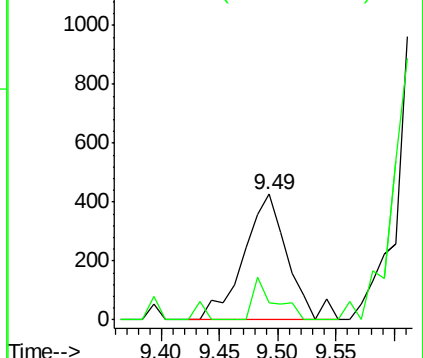
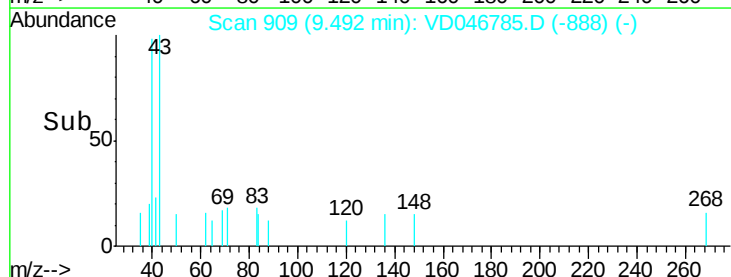
Ion Ratio Lower Upper

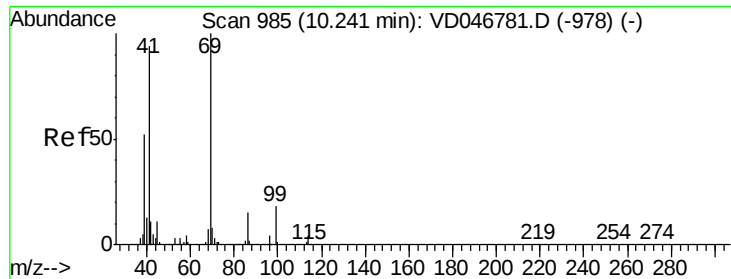
43 100

58 13.4 22.2 33.2#



Abundance Ion 42.95 (42.65 to 43.65): VD046785.D (-888) (-)





#56

Ethyl methacrylate

Concen: 4.03 ug/l

RT: 10.25 min Scan# 986

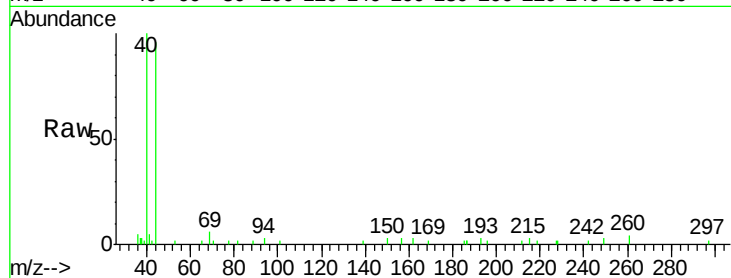
Delta R.T. 0.01 min

Lab File: VD046785.D

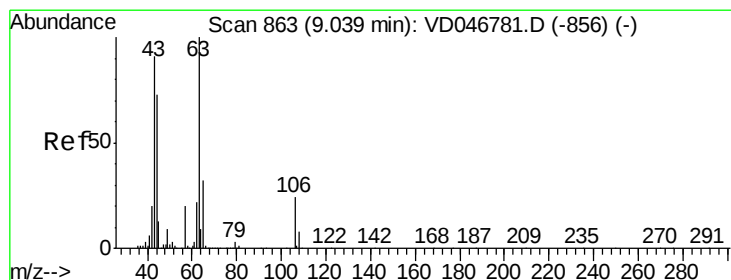
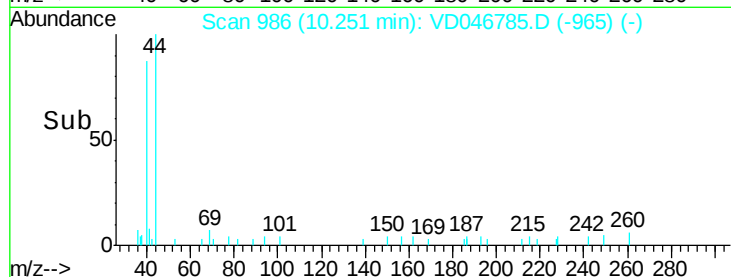
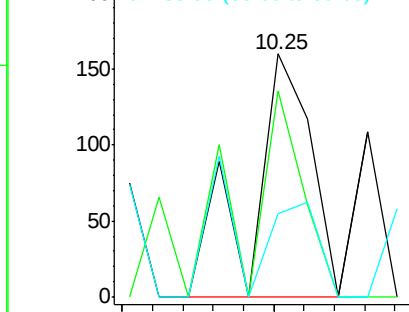
Acq: 18 Sep 2015 16:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 69 Resp: 216
Ion Ratio Lower Upper
69 100
41 85.0 75.4 113.0
39 34.4 41.0 61.4#



Abundance Ion 69.00 (68.70 to 69.70): VDC
Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 6.48 ug/l

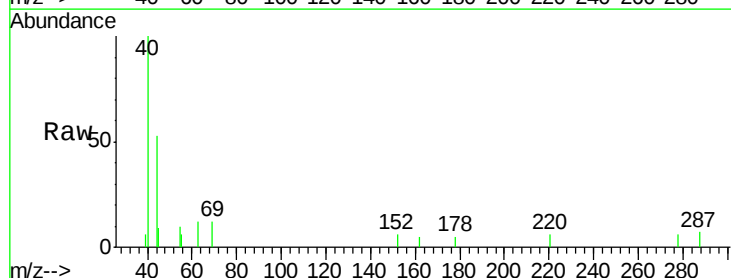
RT: 8.89 min Scan# 848

Delta R.T. -0.15 min

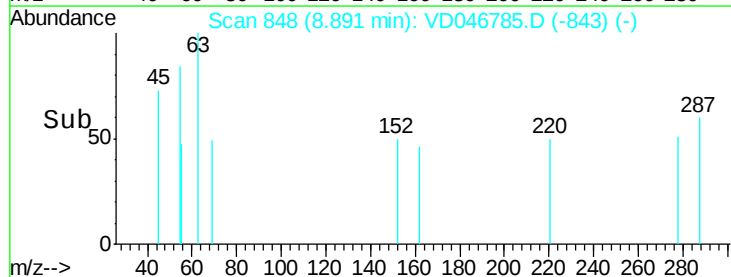
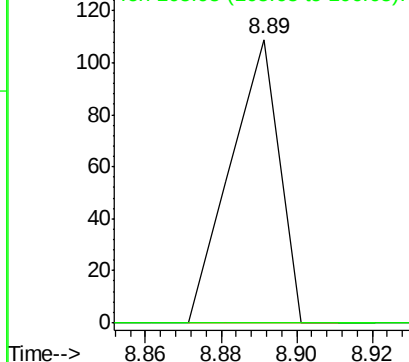
Lab File: VD046785.D

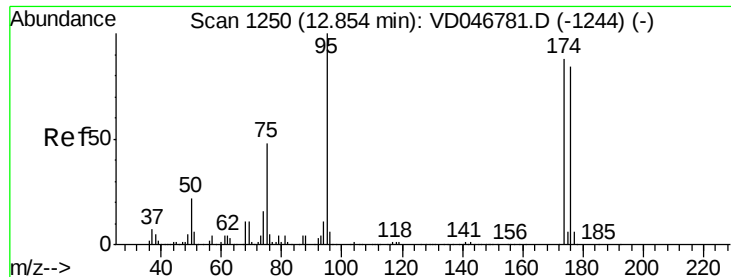
Acq: 18 Sep 2015 16:30

Tgt Ion: 63 Resp: 96
Ion Ratio Lower Upper
63 100
106 0.0 17.8 26.8#



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 105.95 (105.65 to 106.65): V





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.85 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

ClientSampleId :

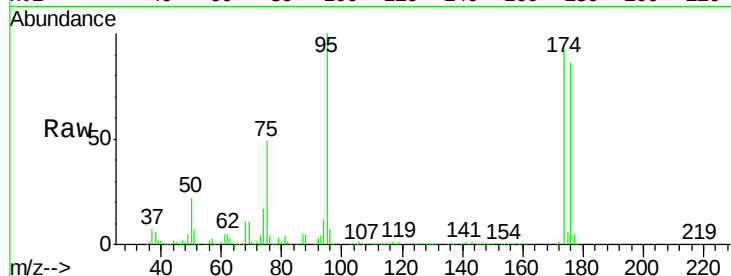
Tot Ion: 95 Resp: 131523

Ion Ratio Lower Upper

95 100

174 92.0 0.0 149.8

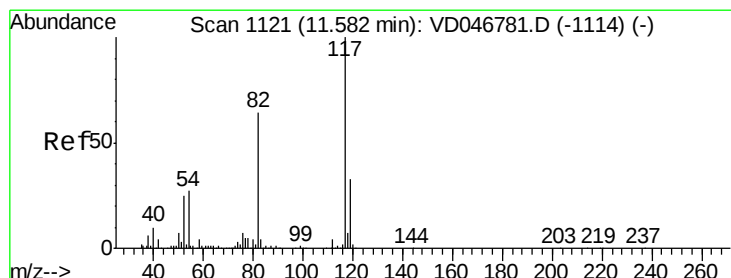
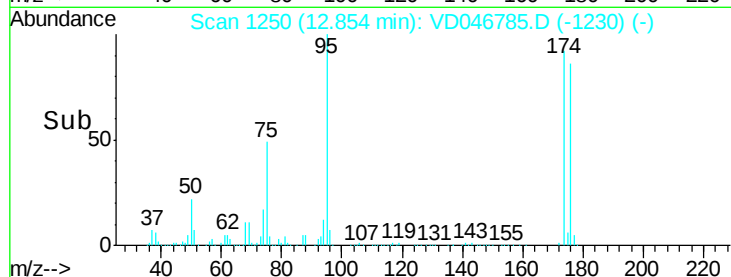
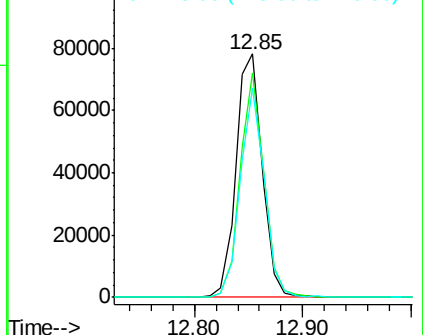
176 86.1 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): VD046785.D (-1230) (-)

Ion 173.90 (173.60 to 174.60): VD046785.D (-1230) (-)

Ion 175.90 (175.60 to 176.60): VD046785.D (-1230) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

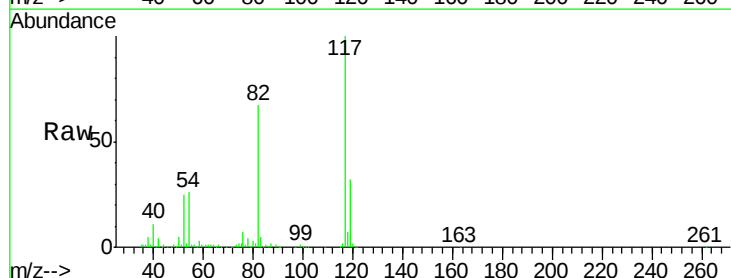
Tgt Ion: 117 Resp: 246827

Ion Ratio Lower Upper

117 100

82 66.8 50.6 75.8

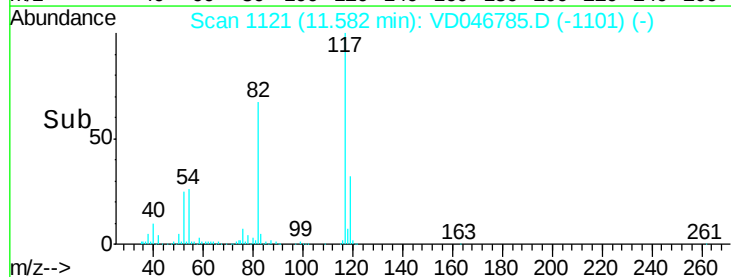
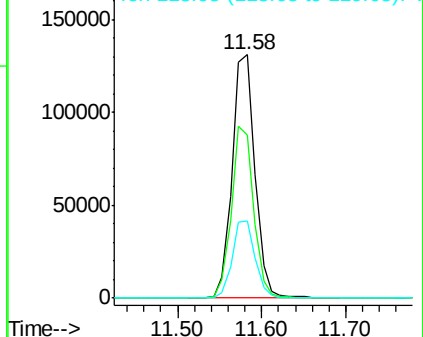
119 31.8 25.8 38.8

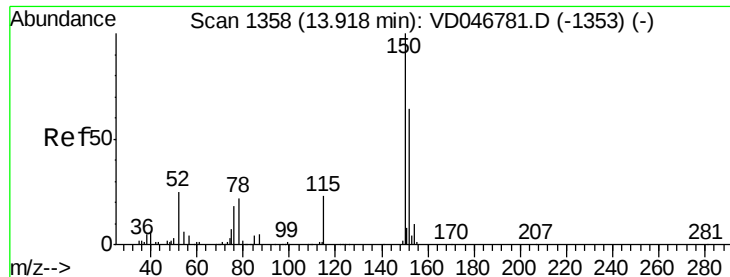


Abundance Ion 116.95 (116.65 to 117.65): VD046785.D (-1101) (-)

Ion 82.05 (81.75 to 82.75): VD046785.D (-1101) (-)

Ion 118.95 (118.65 to 119.65): VD046785.D (-1101) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.92 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

ClientSampleId :

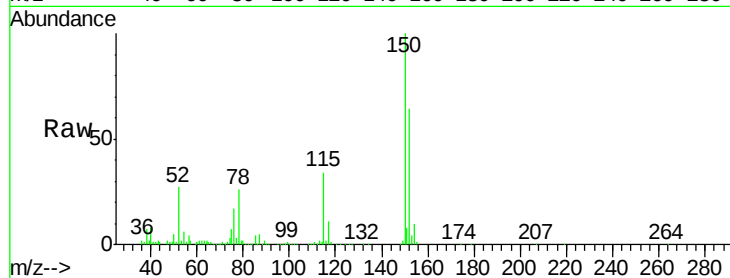
Tot Ion:152 Resp: 122009

Ion Ratio Lower Upper

152 100

115 53.5 26.2 78.6

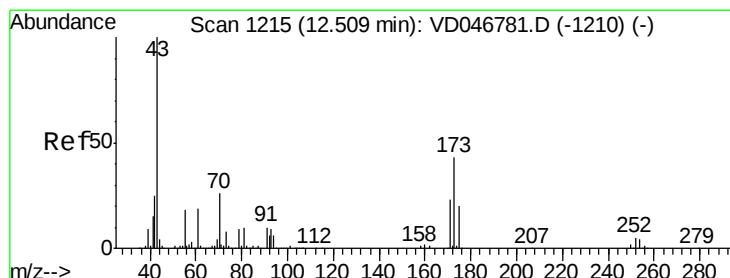
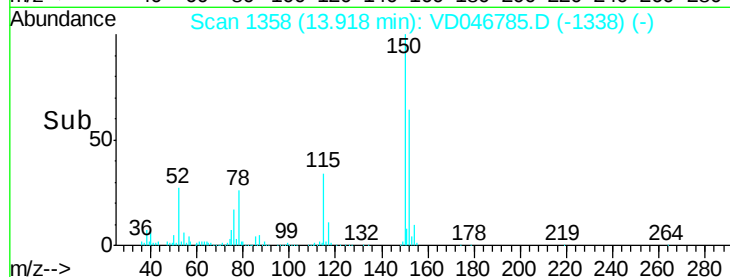
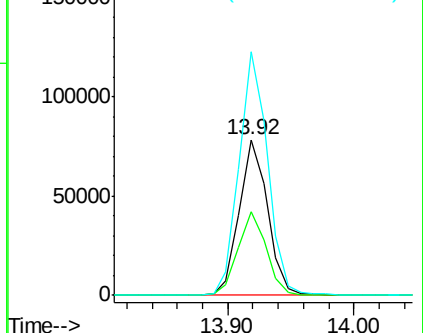
150 156.5 0.0 311.8



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: 4.79 ug/l

RT: 12.45 min Scan# 1209

Delta R.T. -0.06 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Tgt Ion: 43 Resp: 187

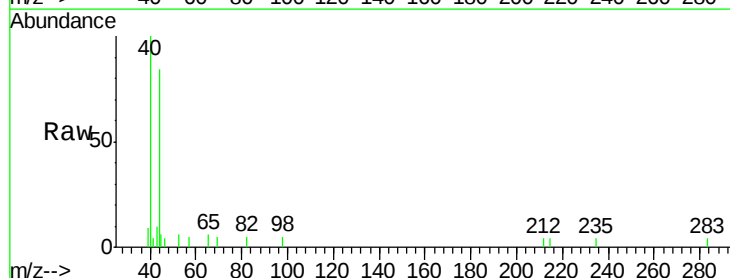
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 0.0 14.5 21.7#

61 0.0 14.6 21.8#

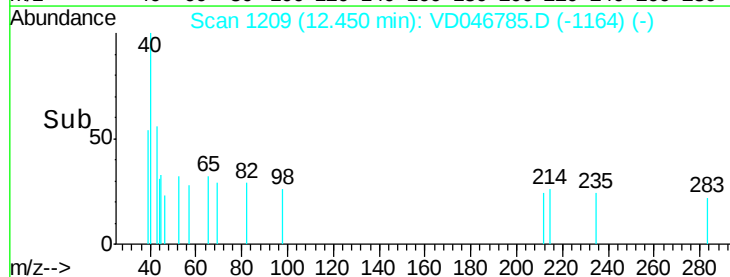
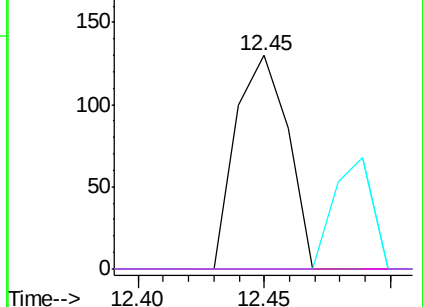


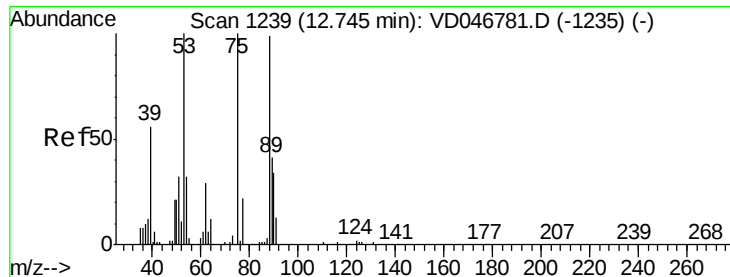
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 153.32 ug/l

RT: 12.84 min Scan# 1249

Delta R.T. 0.10 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

Instrument :

MSVOA_D

ClientSampled :

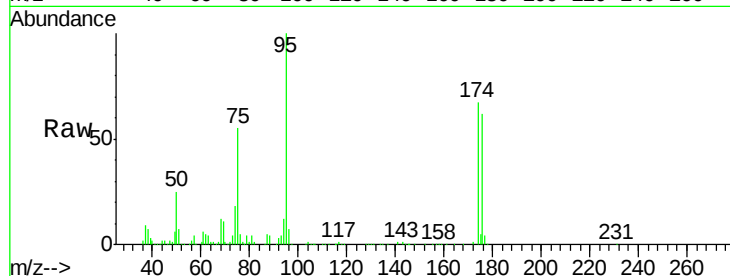
Tot Ion: 75 Resp: 66090

Ion Ratio Lower Upper

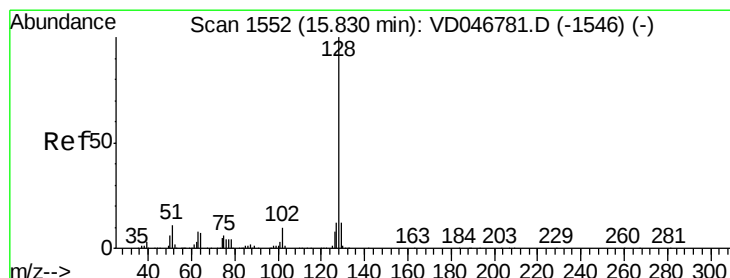
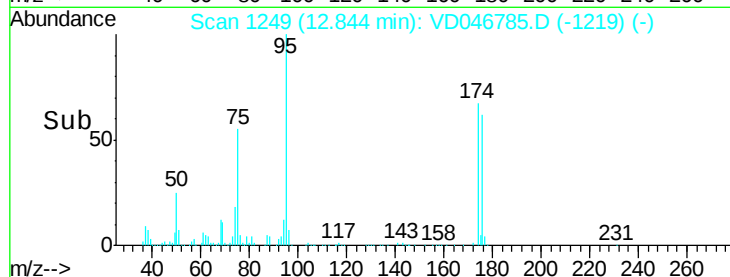
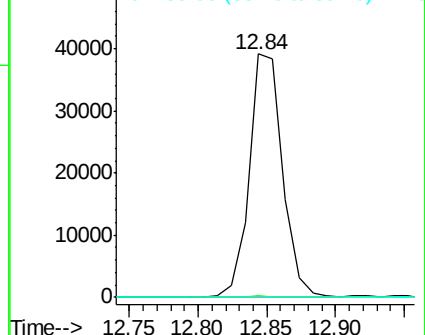
75 100

53 0.5 82.3 123.5#

89 0.0 36.6 54.8#



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: 2.67 ug/l

RT: 15.83 min Scan# 1552

Delta R.T. 0.00 min

Lab File: VD046785.D

Acq: 18 Sep 2015 16:30

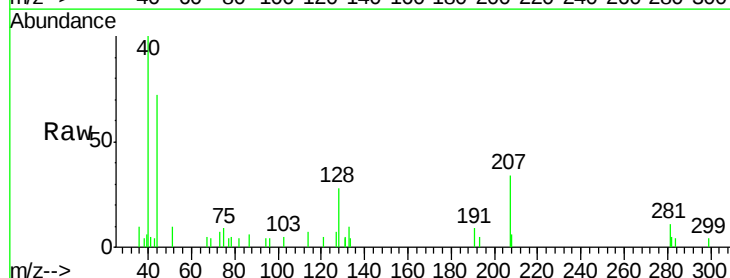
Tgt Ion: 128 Resp: 780

Ion Ratio Lower Upper

128 100

127 23.9 9.8 14.6#

129 0.0 8.6 12.8#



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

