

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046819.D
 Acq On : 21 Sep 2015 20:40
 Operator : FY/SY
 Sample : G3727-01
 Misc : 4.56µm/5mL/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MMB5

Quant Time: Sep 22 01:11:38 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	6.30	168	273503	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.42	114	370928	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.56	117	295444	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.90	152	135650	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.70	65	108933	38.31	ug/l	-0.01
Spiked Amount			Recovery	=	76.62%	
35) Dibromofluoromethane	6.20	113	122027	42.05	ug/l	-0.02
Spiked Amount			Recovery	=	84.10%	
50) Toluene-d8	9.60	98	338400	36.96	ug/l	-0.02
Spiked Amount			Recovery	=	73.92%	
62) 4-Bromofluorobenzene	12.84	95	124839	33.86	ug/l	-0.01
Spiked Amount			Recovery	=	67.72%	

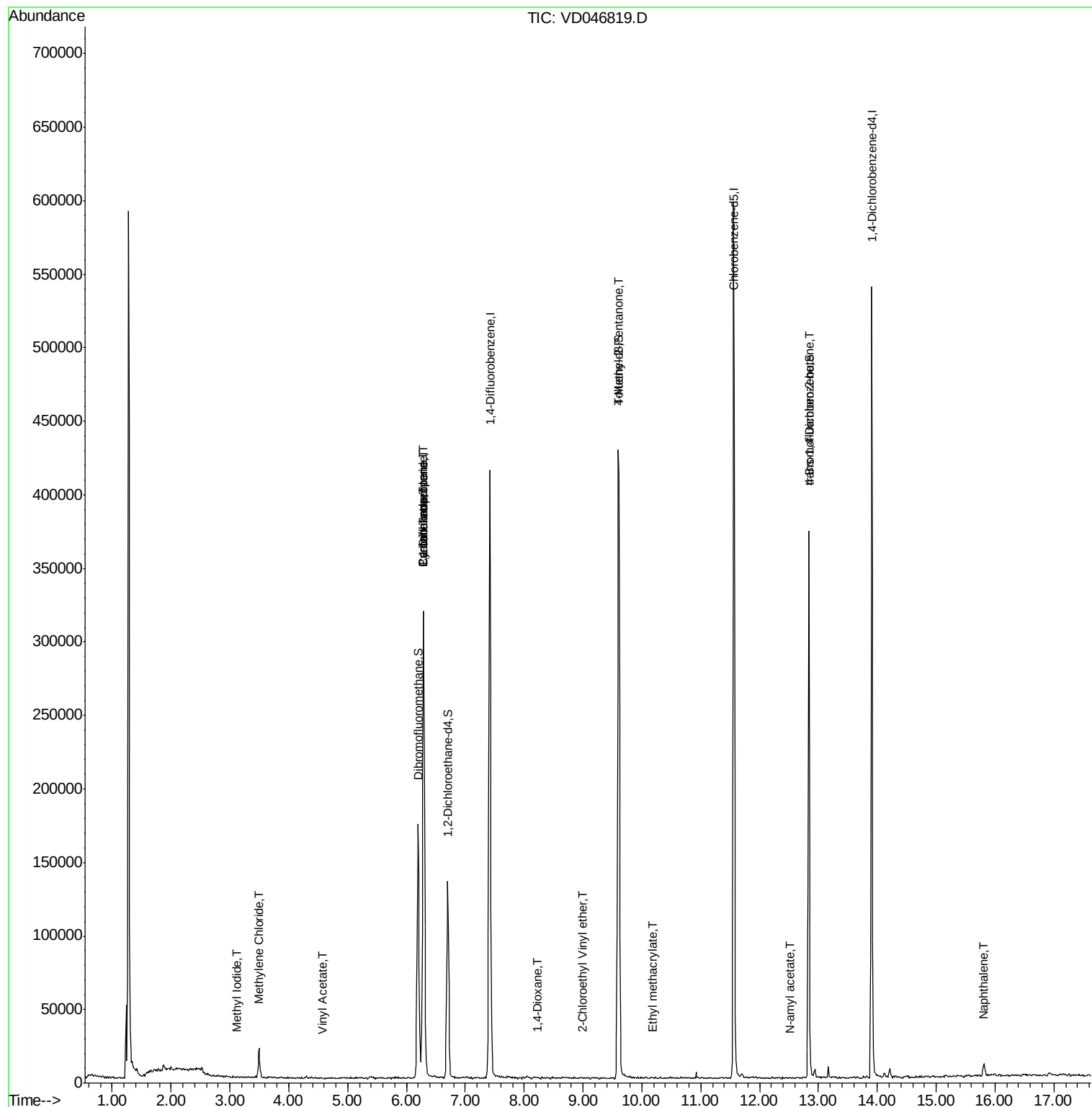
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	1530	Below Cal		99
3) Chlorodifluoromethane	1.43	51	371	Below Cal	#	81
6) Bromomethane	2.00	94	288	Below Cal	#	2
11) Methyl Iodide	3.11	142	35	1.75	ug/l	35
12) Tert butyl alcohol	3.67	59	168	Below Cal	#	74
21) Methylene Chloride	3.50	84	8617	3.30	ug/l	86
24) Vinyl Acetate	4.58	43	36	15.01	ug/l	82
31) Cyclohexane	6.30	56	6486	1.52	ug/l	1
36) 1,1-Dichloropropene	6.29	75	22159	5.11	ug/l	52
38) Carbon Tetrachloride	6.29	117	23168	5.14	ug/l	16
49) 1,4-Dioxane	8.22	88	38	3.66	ug/l	44
51) 4-Methyl-2-Pentanone	9.60	43	2272	1.71	ug/l	1
56) Ethyl methacrylate	10.19	69	114	3.93	ug/l	60
58) 2-Chloroethyl Vinyl ether	8.99	63	47	6.38	ug/l	53
74) N-amyl acetate	12.52	43	80	4.74	ug/l	54
81) trans-1,4-Dichloro-2-buten	12.83	75	62212	130.38	ug/l	9
95) Naphthalene	15.81	128	8189	5.09	ug/l	91

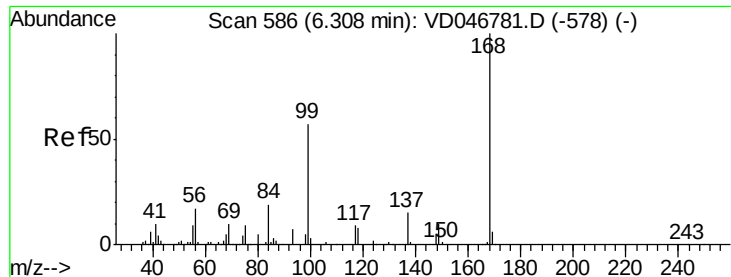
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.30 min Scan# 585

Delta R.T. -0.01 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

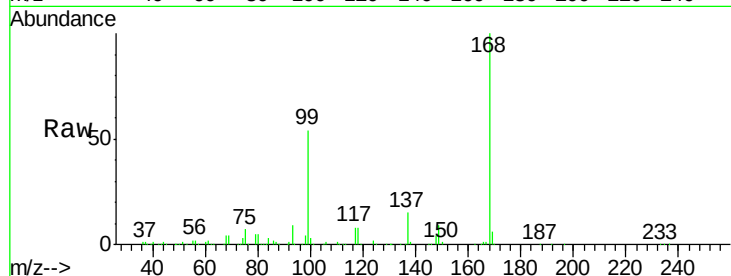
MMB5

Tot Ion:168 Resp: 273503

Ion Ratio Lower Upper

168 100

99 53.6 42.4 63.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.30

120000

100000

80000

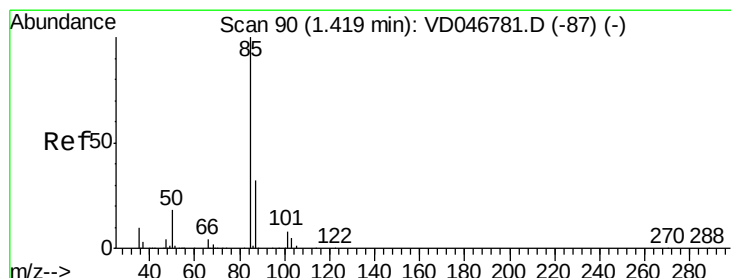
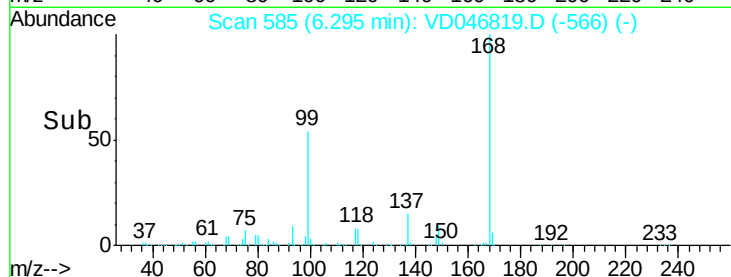
60000

40000

20000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. -0.00 min

Lab File: VD046819.D

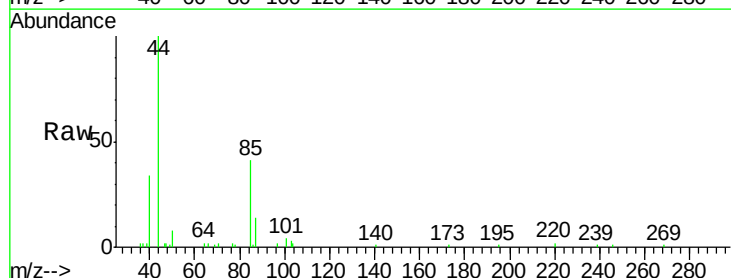
Acq: 21 Sep 2015 20:40

Tgt Ion: 85 Resp: 1530

Ion Ratio Lower Upper

85 100

87 33.1 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.42

2000

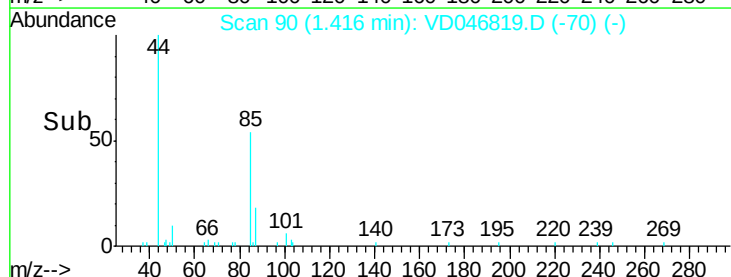
1500

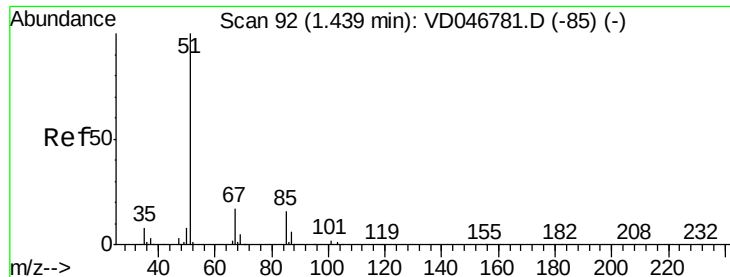
1000

500

0

Time--> 1.40 1.45





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

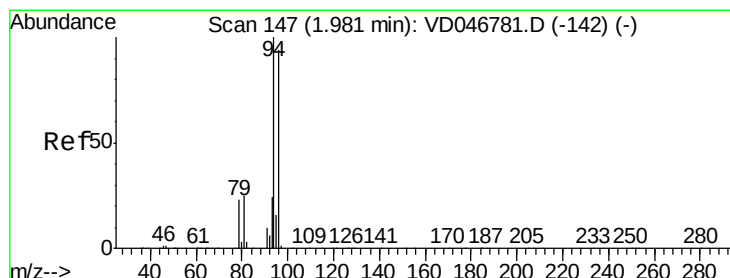
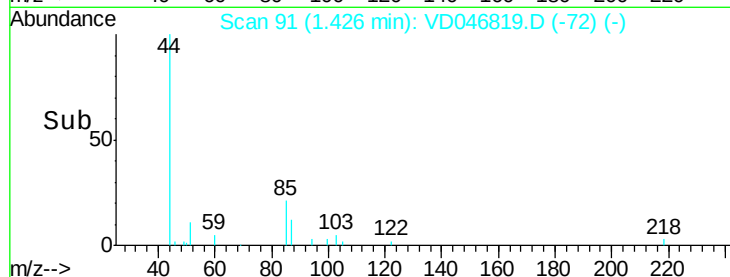
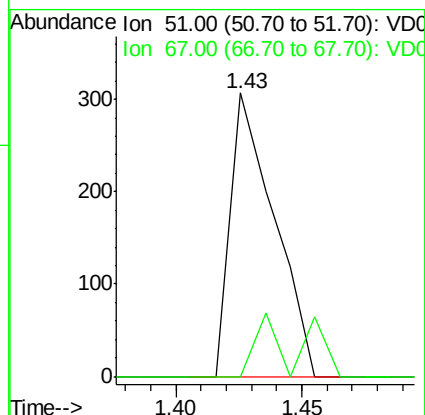
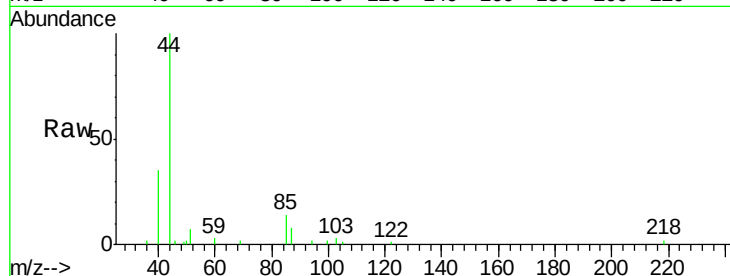
MMB5

Tot Ion: 51 Resp: 371

Ion Ratio Lower Upper

51 100

67 21.3 10.9 16.3#



#6

Bromomethane

Concen: Below Cal

RT: 2.00 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD046819.D

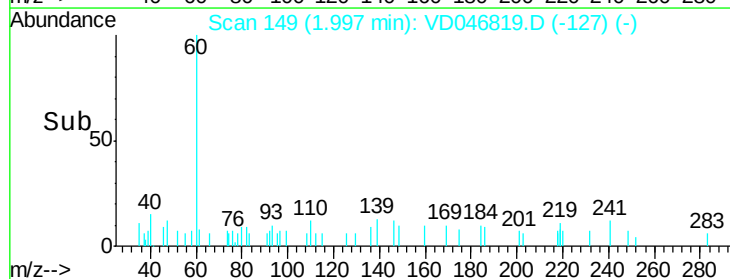
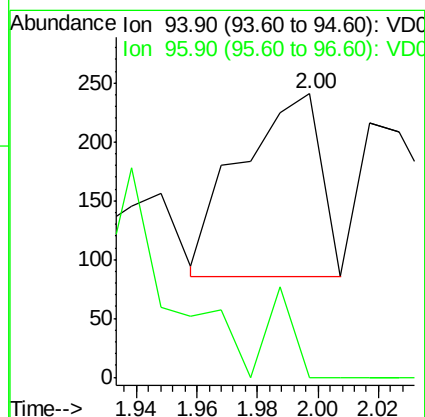
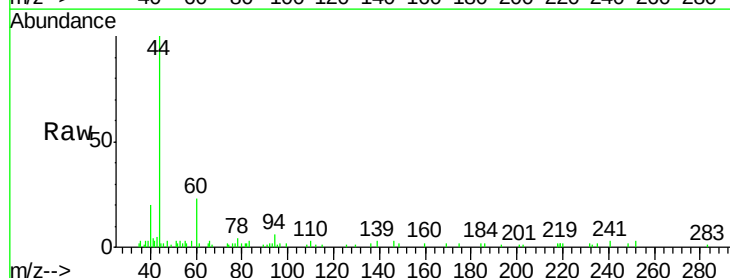
Acq: 21 Sep 2015 20:40

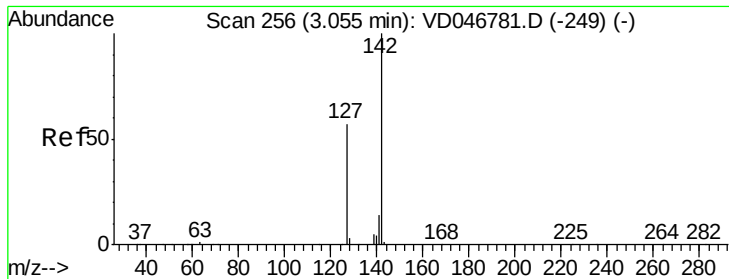
Tgt Ion: 94 Resp: 288

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#

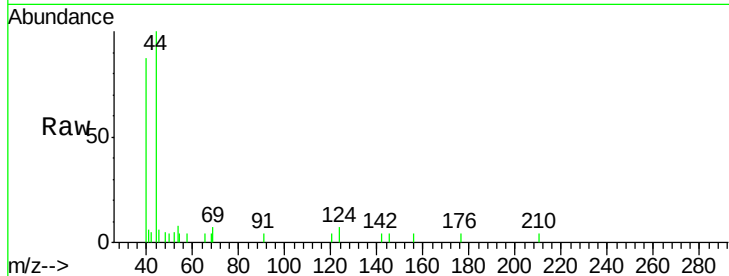




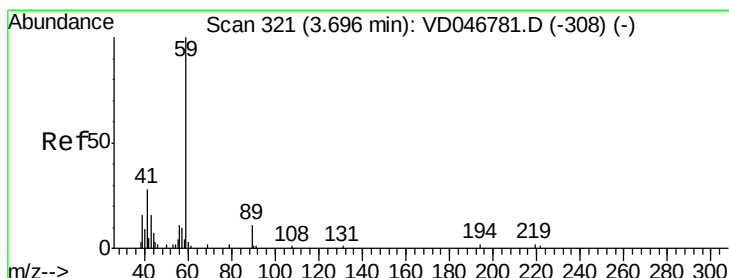
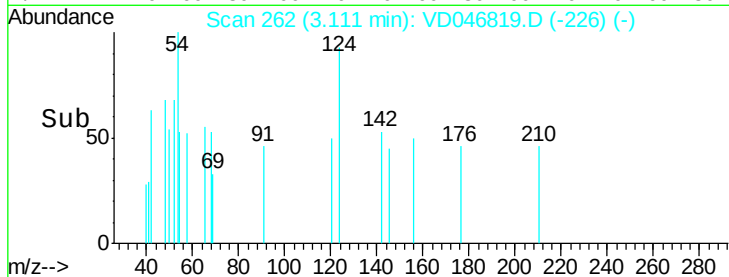
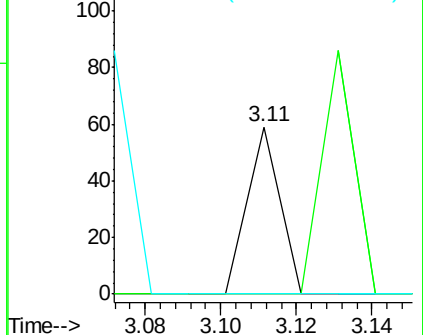
#11
Methyl Iodide
Concen: 1.75 ug/l
RT: 3.11 min Scan# 262
Delta R.T. 0.06 min
Lab File: VD046819.D
Acq: 21 Sep 2015 20:40

Instrument :
MSVOA_D
ClientSampleId :
MMB5

Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	41.2	61.8#
141	0.0	11.6	17.4#

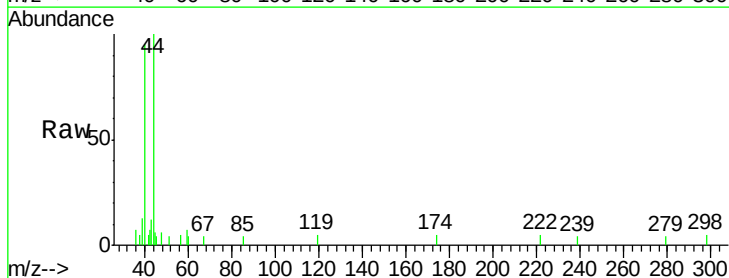


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

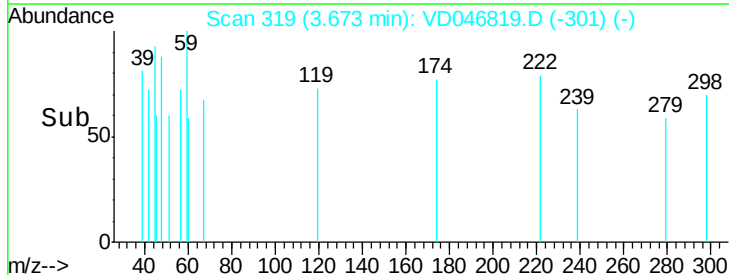
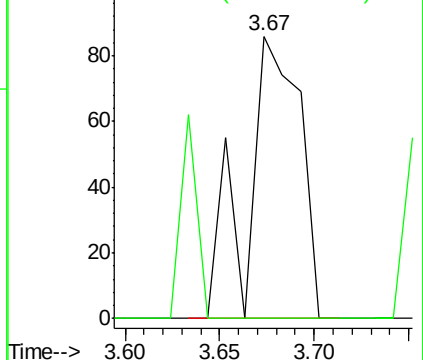


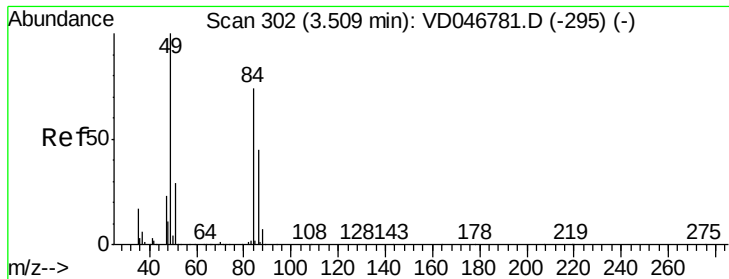
#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.67 min Scan# 319
Delta R.T. -0.02 min
Lab File: VD046819.D
Acq: 21 Sep 2015 20:40

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.6#



Abundance Ion 58.95 (58.65 to 59.65): V
Ion 56.95 (56.65 to 57.65): V

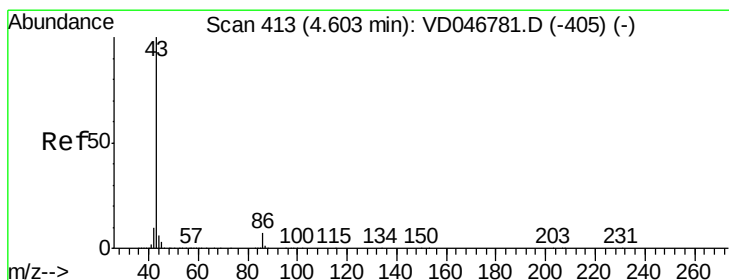
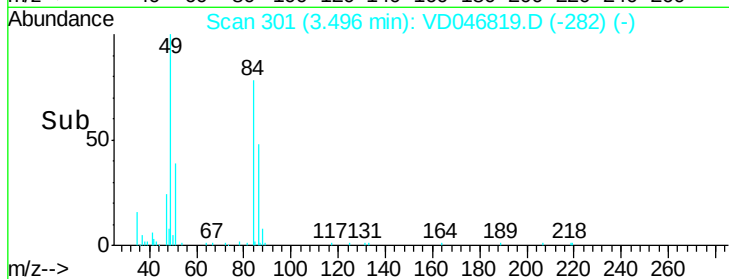
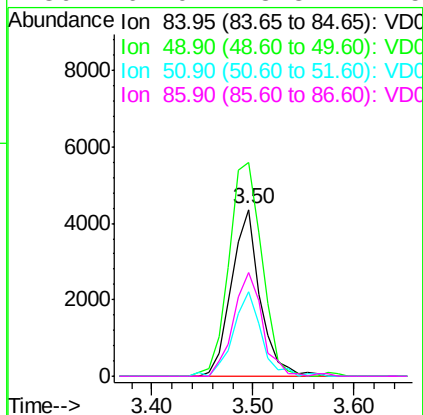
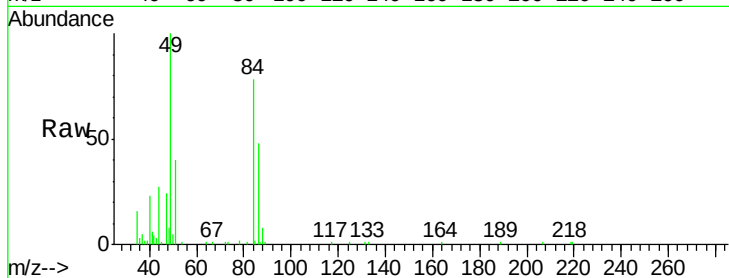




#21
Methvlene Chloride
Concen: 3.30 ug/l
RT: 3.50 min Scan# 301
Delta R.T. -0.01 min
Lab File: VD046819.D
Acq: 21 Sep 2015 20:40

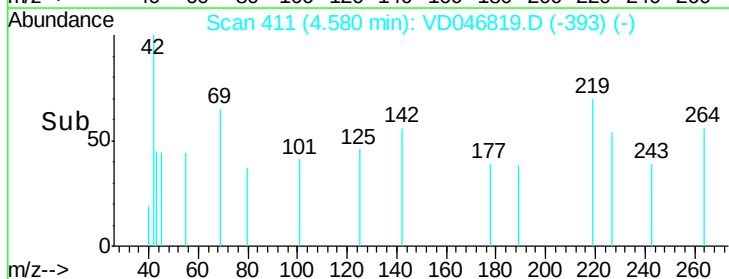
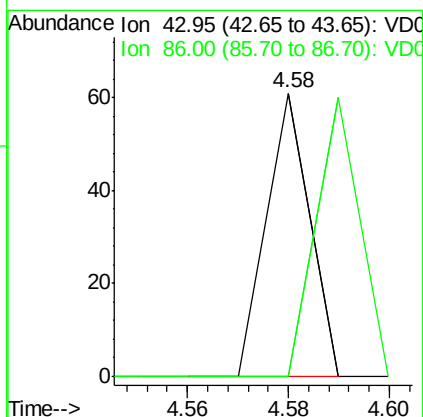
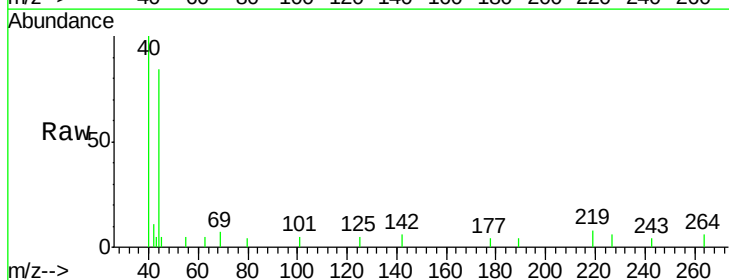
Instrument :
MSVOA_D
ClientSampleId :
MMB5

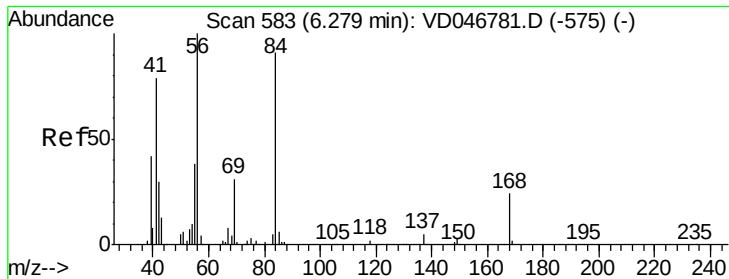
Tot Ion: 84 Resp: 8617
Ion Ratio Lower Upper
84 100
49 128.2 122.1 183.1
51 50.9 33.6 50.4#
86 62.0 48.3 72.5



#24
Vinyl Acetate
Concen: 15.01 ug/l
RT: 4.58 min Scan# 411
Delta R.T. -0.02 min
Lab File: VD046819.D
Acq: 21 Sep 2015 20:40

Tgt Ion: 43 Resp: 36
Ion Ratio Lower Upper
43 100
86 0.0 4.9 7.3#

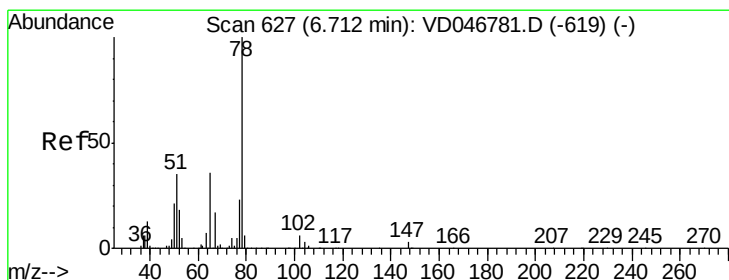
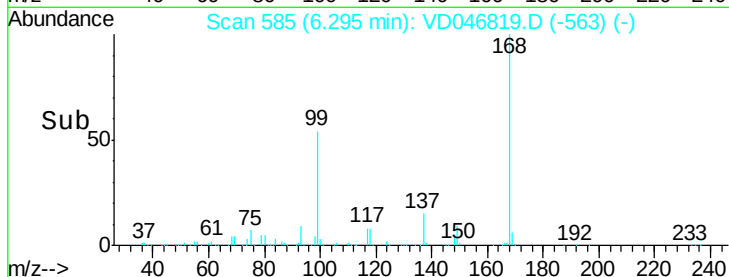
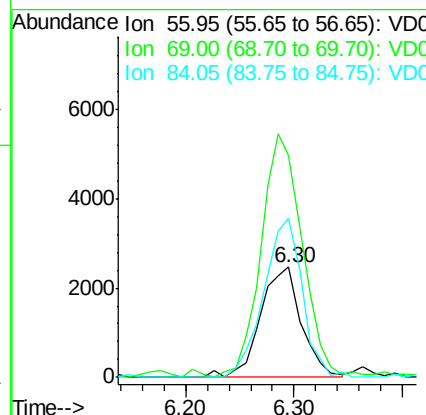
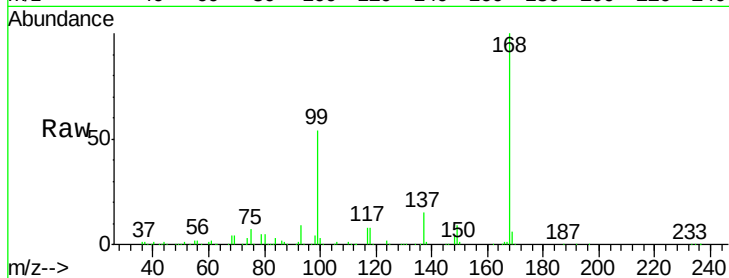




#31
Cyclohexane
Concen: 1.52 ug/l
RT: 6.30 min Scan# 585
Delta R.T. 0.02 min
Lab File: VD046819.D
Acq: 21 Sep 2015 20:40

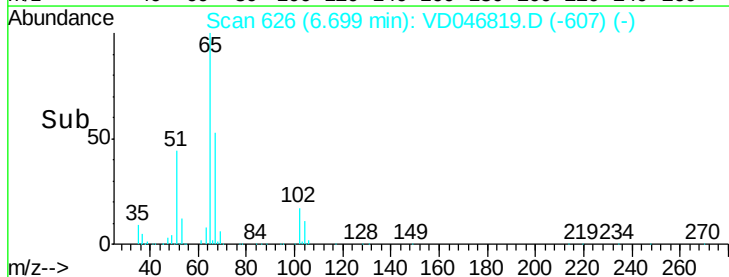
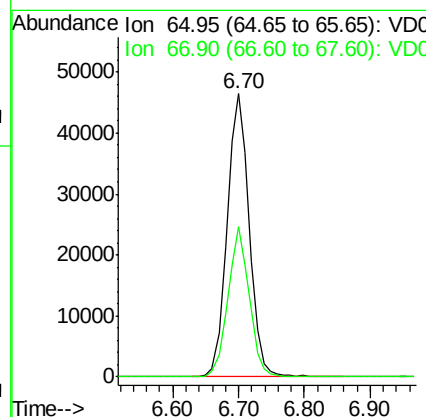
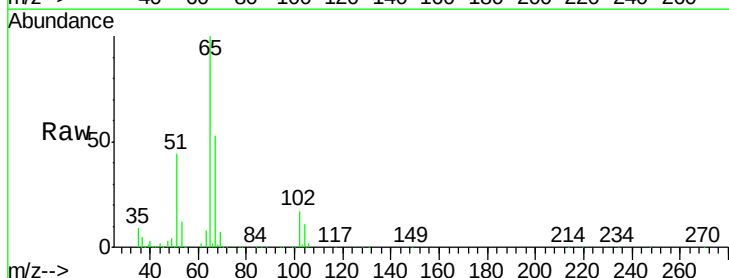
Instrument :
MSVOA_D
ClientSampleId :
MMB5

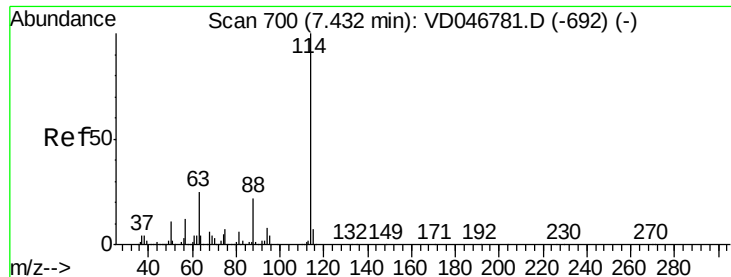
Tot Ion: 56 Resp: 6486
Ion Ratio Lower Upper
56 100
69 201.5 23.4 35.0#
84 145.0 63.8 95.8#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.70 min Scan# 626
Delta R.T. -0.01 min
Lab File: VD046819.D
Acq: 21 Sep 2015 20:40

Tgt Ion: 65 Resp: 108933
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.01 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

MMB5

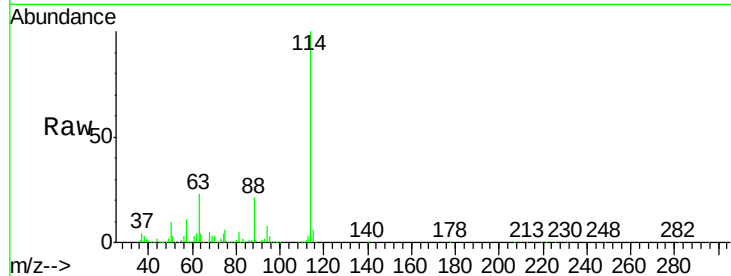
Tot Ion:114 Resp: 370928

Ion Ratio Lower Upper

114 100

63 23.0 0.0 49.8

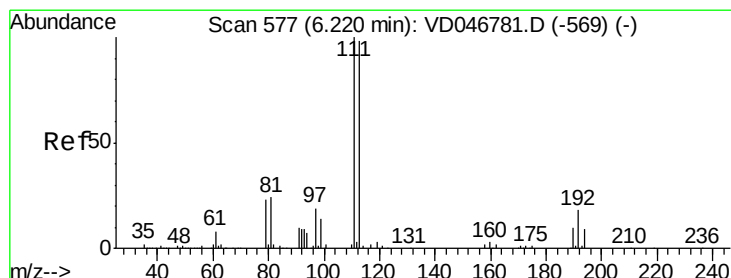
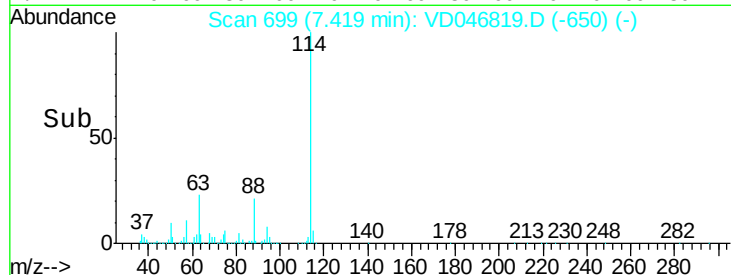
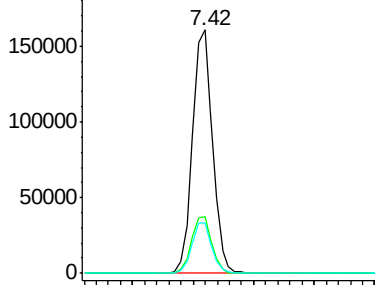
88 20.8 0.0 43.6



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: 6.20 min Scan# 575

Delta R.T. -0.02 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

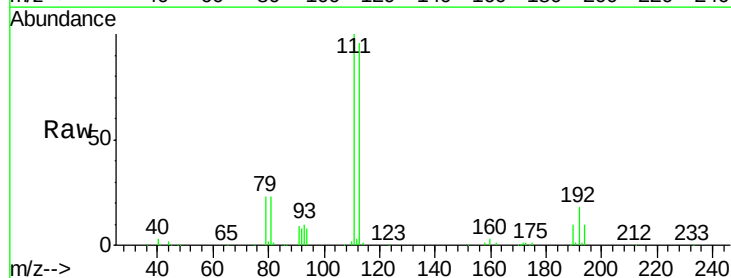
Tgt Ion:113 Resp: 122027

Ion Ratio Lower Upper

113 100

111 104.2 79.4 119.0

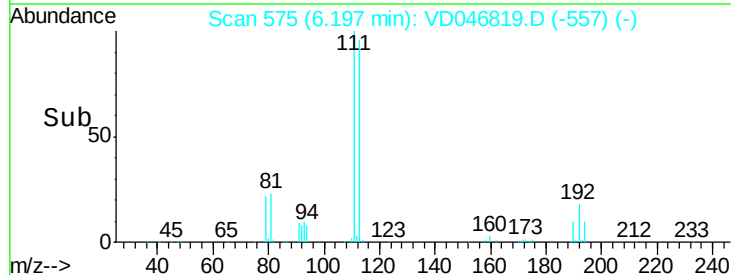
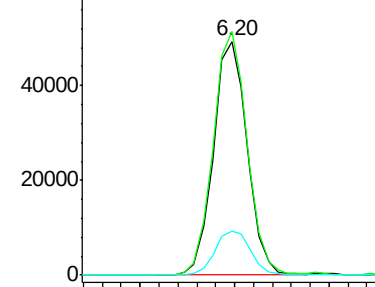
192 18.9 14.6 22.0

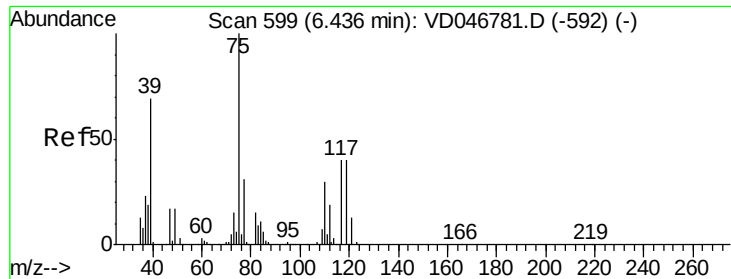


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.11 ug/l

RT: 6.29 min Scan# 584

Delta R.T. -0.15 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

MMB5

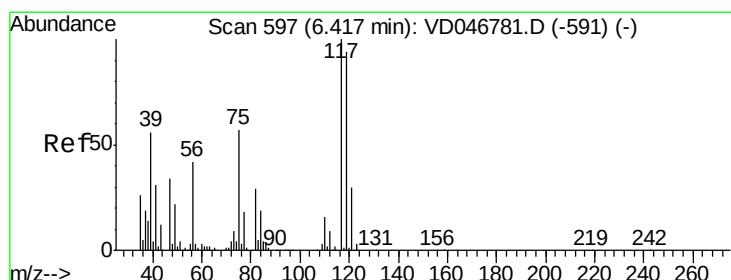
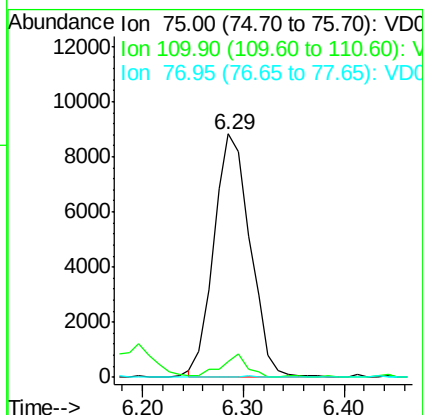
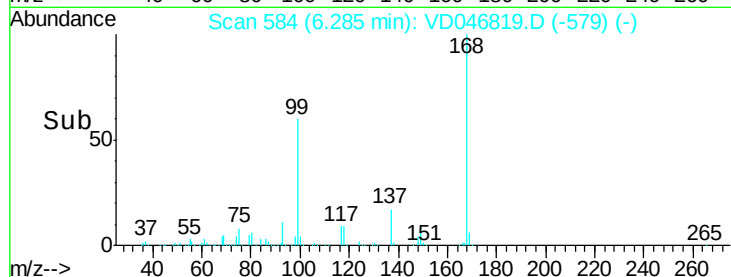
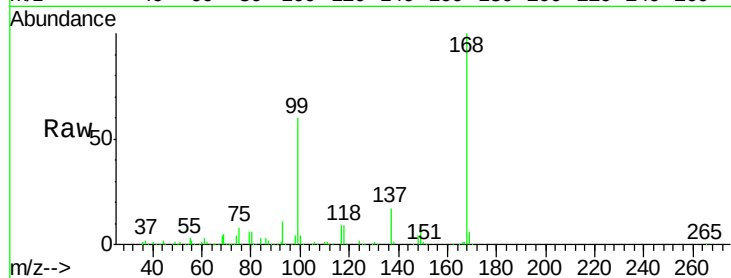
Tot Ion: 75 Resp: 22159

Ion Ratio Lower Upper

75 100

110 6.7 13.7 41.0#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.14 ug/l

RT: 6.29 min Scan# 584

Delta R.T. -0.13 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

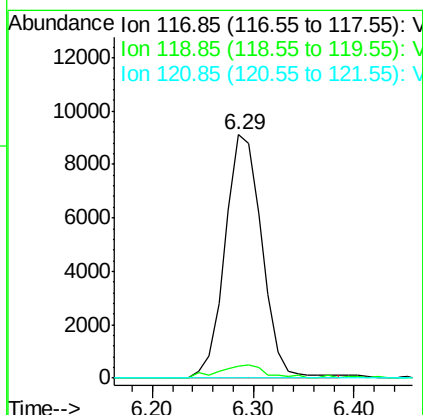
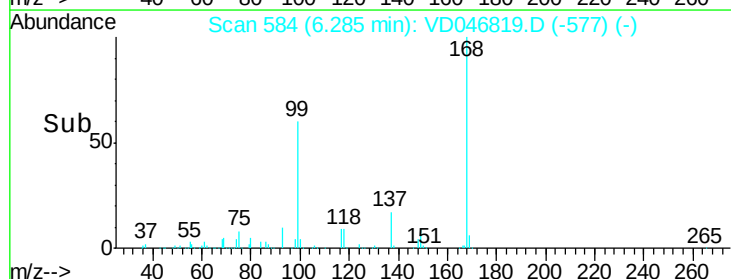
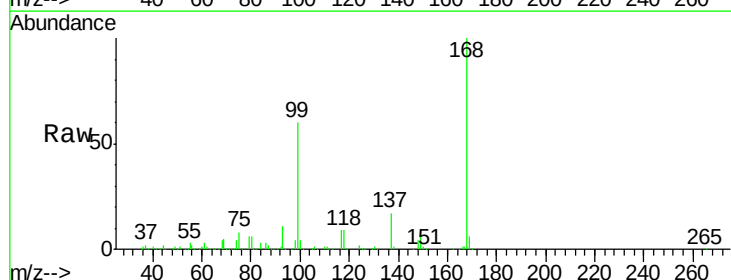
Tgt Ion: 117 Resp: 23168

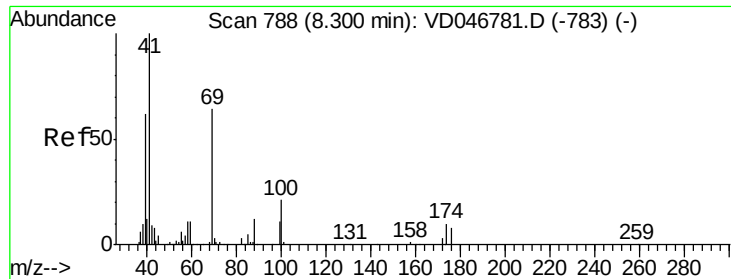
Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.4#

121 0.0 24.5 36.7#

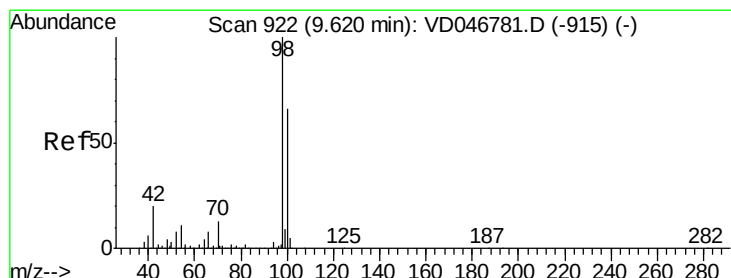
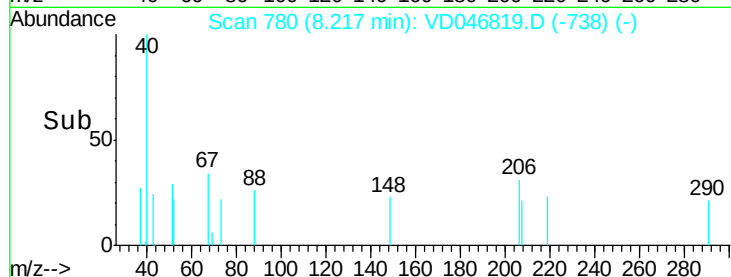
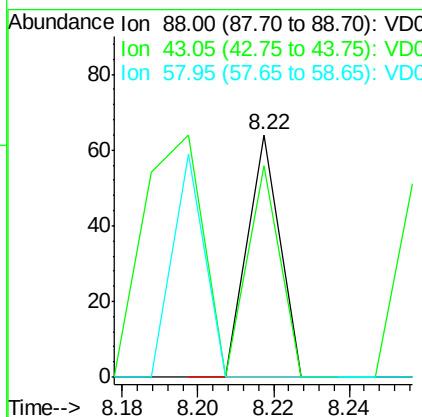
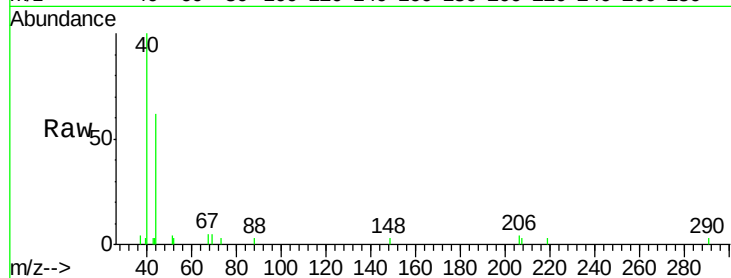




#49
 1,4-Dioxane
 Concen: 3.66 ug/l
 RT: 8.22 min Scan# 780
 Delta R.T. -0.08 min
 Lab File: VD046819.D
 Acq: 21 Sep 2015 20:40

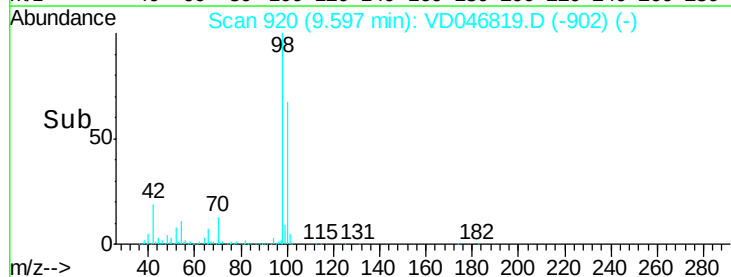
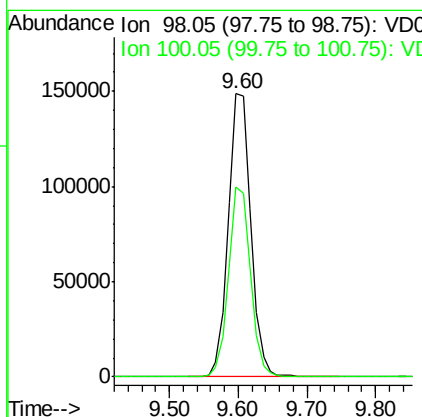
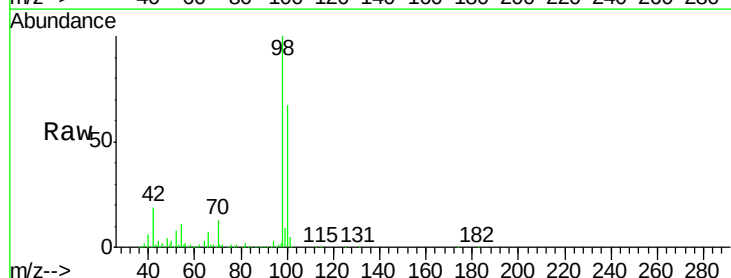
Instrument :
 MSVOA_D
 ClientSampleId :
 MMB5

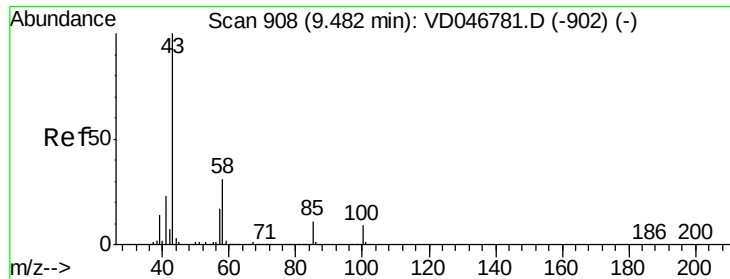
Tot Ion: 88 Resp: 38
 Ion Ratio Lower Upper
 88 100
 43 87.5 50.0 75.0#
 58 0.0 48.3 72.5#



#50
 Toluene-d8
 Concen: 3.66 ug/l
 RT: 9.60 min Scan# 920
 Delta R.T. -0.02 min
 Lab File: VD046819.D
 Acq: 21 Sep 2015 20:40

Tgt Ion: 98 Resp: 338400
 Ion Ratio Lower Upper
 98 100
 100 67.0 49.9 74.9





#51

4-Methyl-2-Pentanone

Concen: 1.71 ug/l

RT: 9.60 min Scan# 920

Delta R.T. 0.11 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampled :

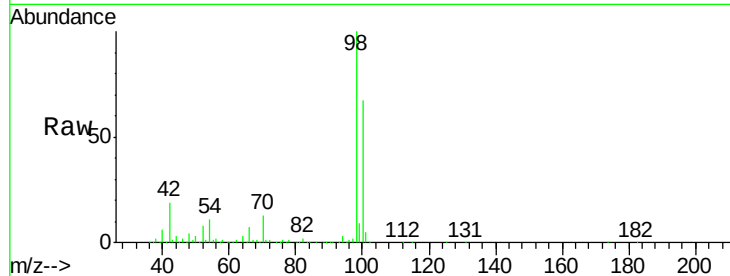
MMB5

Tot Ion: 43 Resp: 2272

Ion Ratio Lower Upper

43 100

58 110.8 22.2 33.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

1500

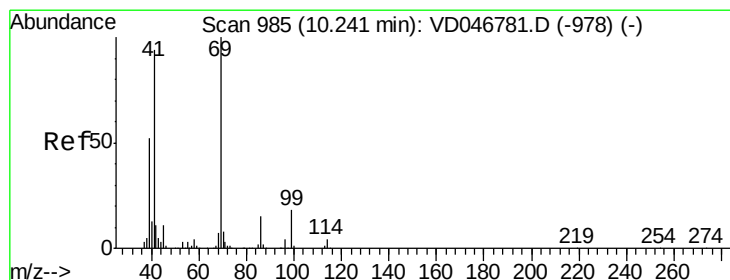
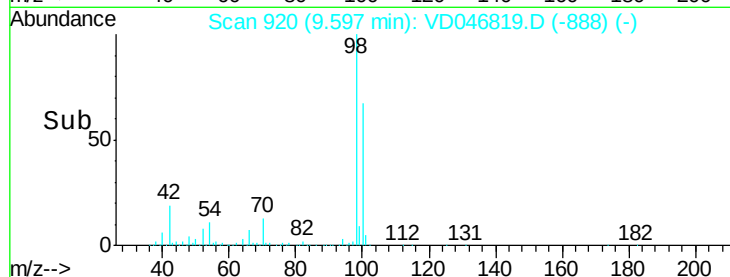
1000

500

0

9.55 9.60 9.65

Time-->



#56

Ethyl methacrylate

Concen: 3.93 ug/l

RT: 10.19 min Scan# 980

Delta R.T. -0.05 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

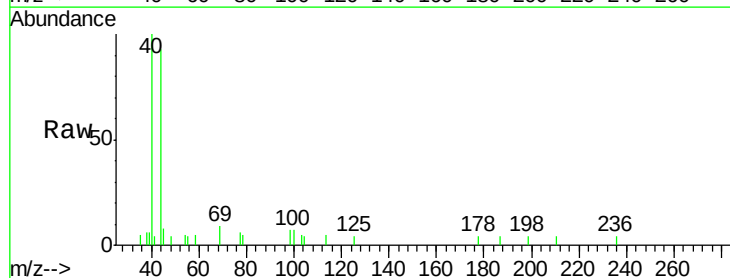
Tgt Ion: 69 Resp: 114

Ion Ratio Lower Upper

69 100

41 45.1 75.4 113.0#

39 65.5 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

250

200

150

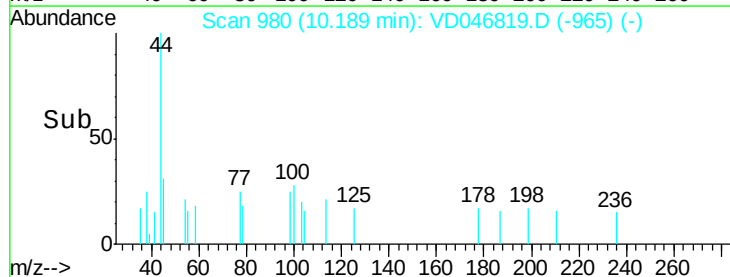
100

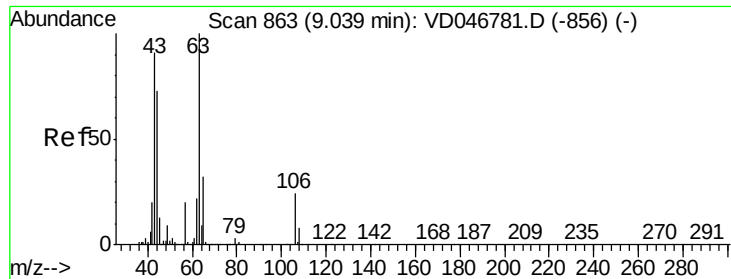
50

0

10.16 10.18 10.20 10.22

Time-->

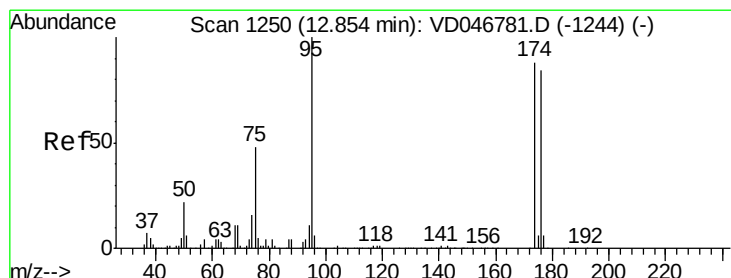
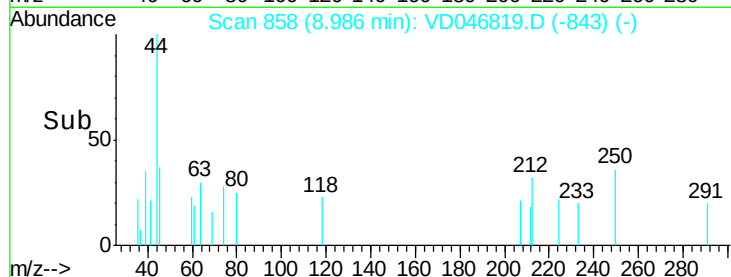
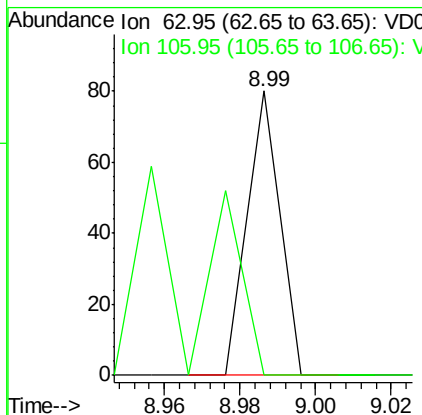
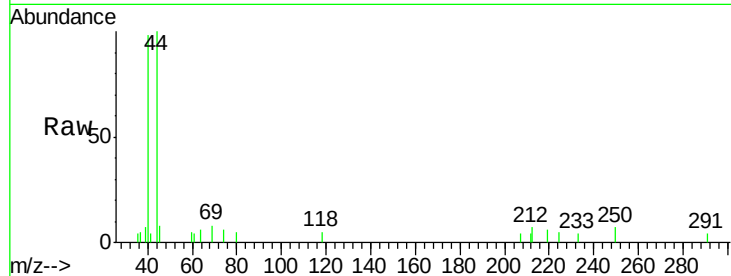




#58
 2-Chloroethyl Vinyl ether
 Concen: 6.38 ug/l
 RT: 8.99 min Scan# 858
 Delta R.T. -0.05 min
 Lab File: VD046819.D
 Acq: 21 Sep 2015 20:40

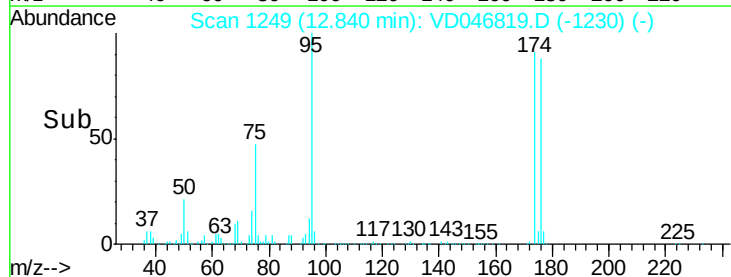
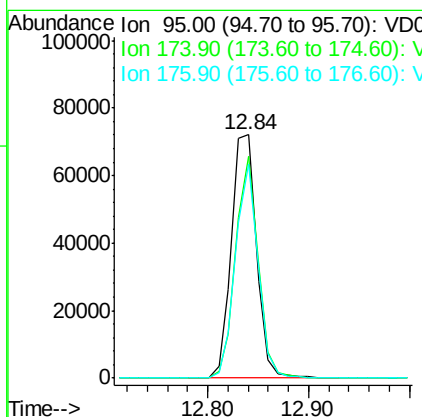
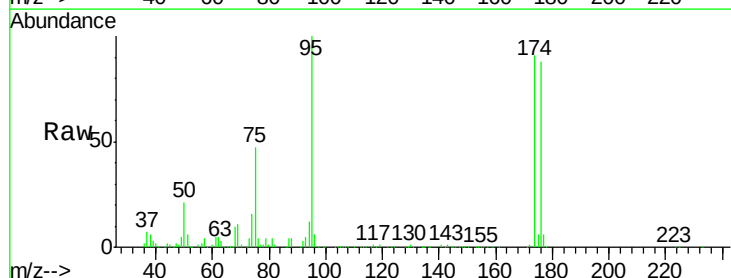
Instrument :
 MSVOA_D
 ClientSampleId :
 MMB5

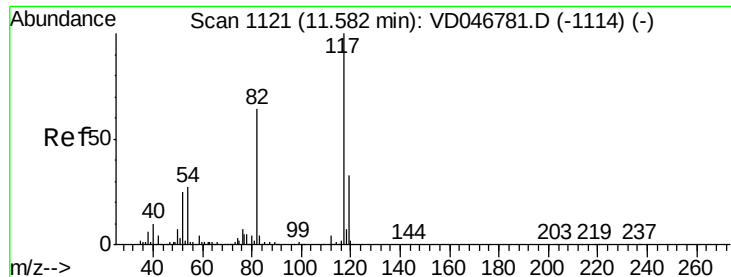
Tot Ion: 63 Resp: 47
 Ion Ratio Lower Upper
 63 100
 106 0.0 17.8 26.8#



#62
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.84 min Scan# 1249
 Delta R.T. -0.01 min
 Lab File: VD046819.D
 Acq: 21 Sep 2015 20:40

Tgt Ion: 95 Resp: 124839
 Ion Ratio Lower Upper
 95 100
 174 91.0 0.0 149.8
 176 87.8 0.0 143.4

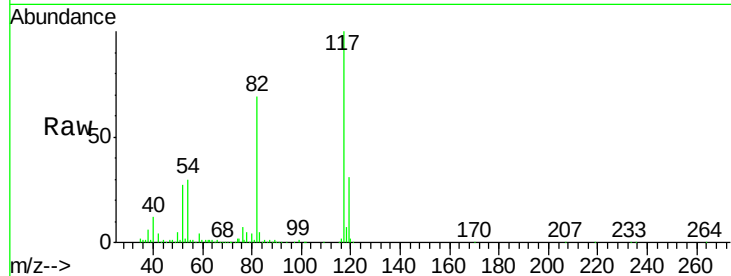




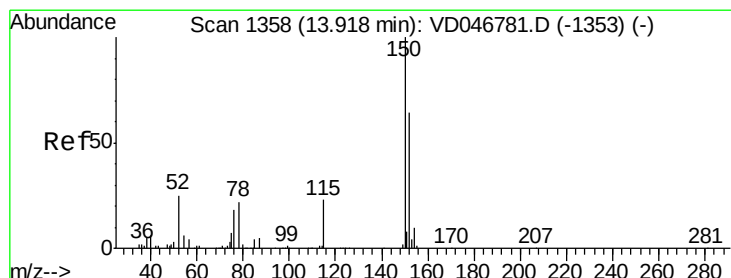
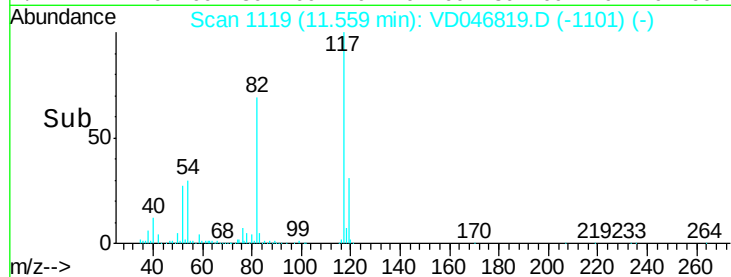
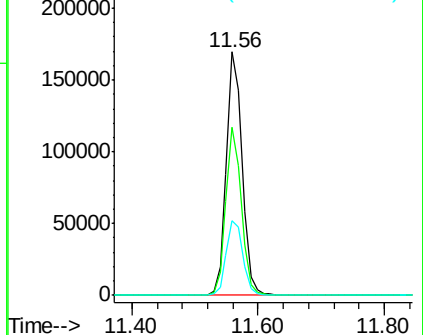
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.56 min Scan# 1119
Delta R.T. -0.02 min
Lab File: VD046819.D
Acq: 21 Sep 2015 20:40

Instrument :
MSVOA_D
ClientSampleId :
MMB5

Tot Ion:117 Resp: 295444
Ion Ratio Lower Upper
117 100
82 69.2 50.6 75.8
119 30.7 25.8 38.8

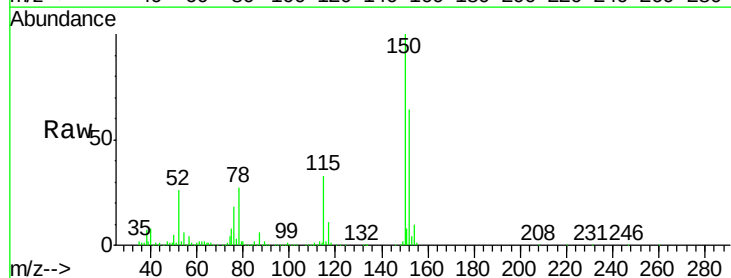


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

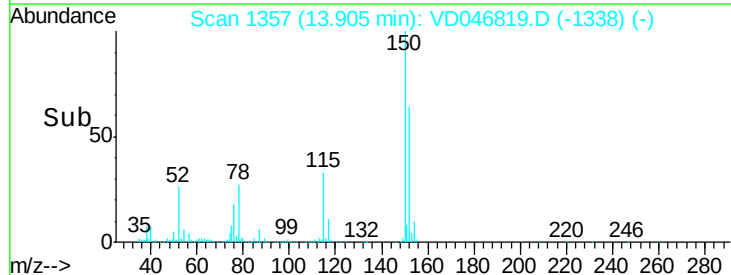
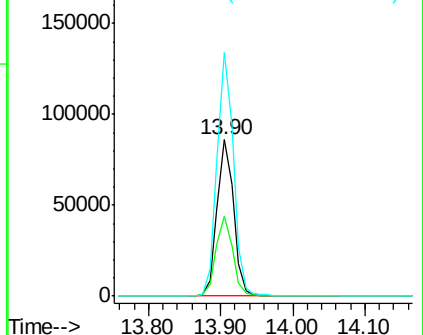


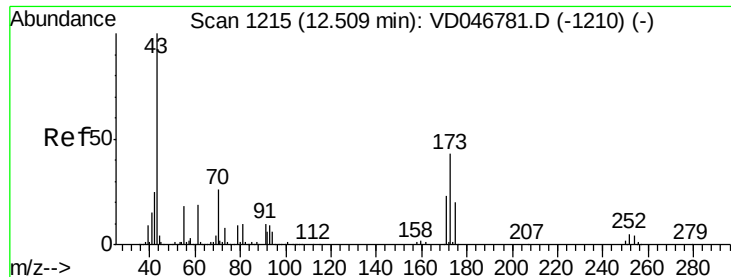
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.90 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VD046819.D
Acq: 21 Sep 2015 20:40

Tgt Ion:152 Resp: 135650
Ion Ratio Lower Upper
152 100
115 50.8 26.2 78.6
150 155.6 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-amvl acetate

Concen: 4.74 ug/l

RT: 12.52 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

MMB5

Tot Ion: 43 Resp: 80

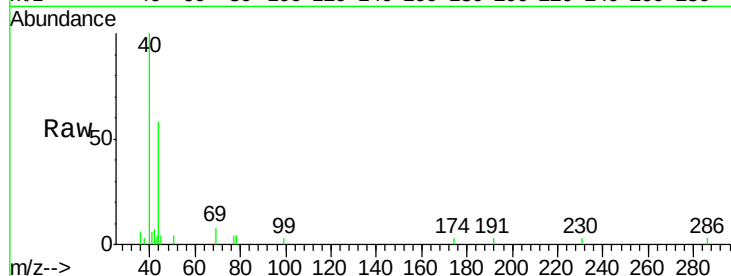
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 0.0 14.5 21.7#

61 0.0 14.6 21.8#

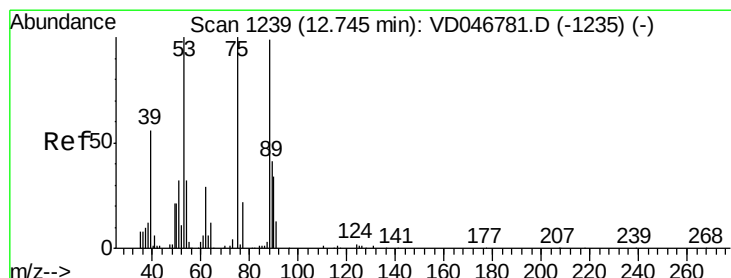
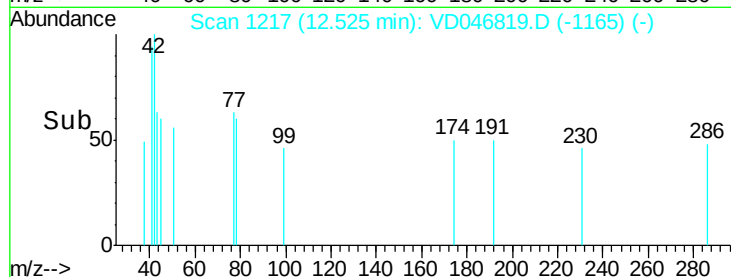
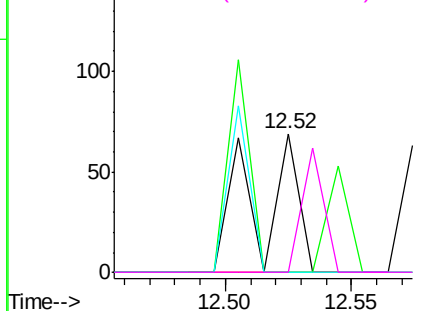


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#81

trans-1,4-Dichloro-2-butene

Concen: 130.38 ug/l

RT: 12.83 min Scan# 1248

Delta R.T. 0.09 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

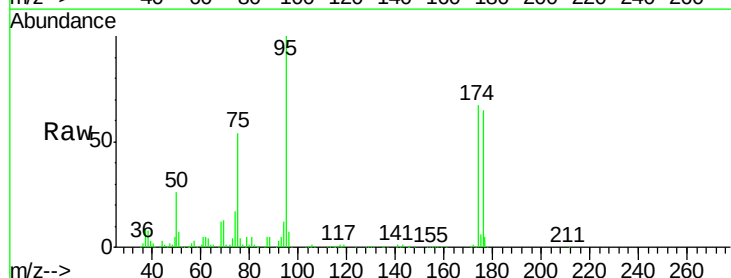
Tgt Ion: 75 Resp: 62212

Ion Ratio Lower Upper

75 100

53 0.2 82.3 123.5#

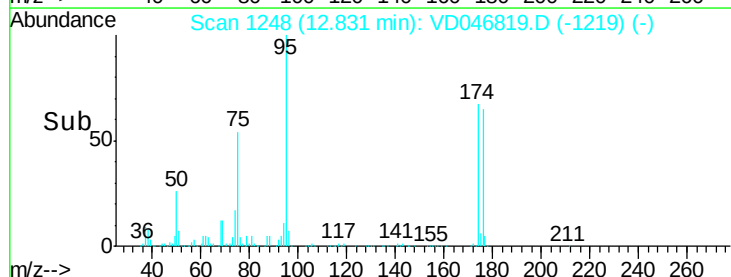
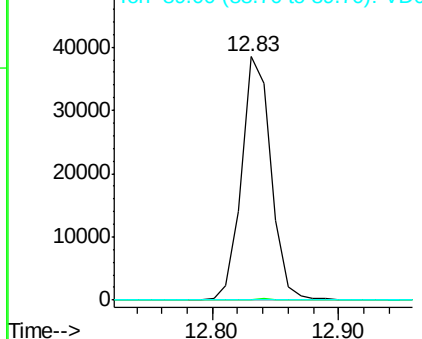
89 0.0 36.6 54.8#

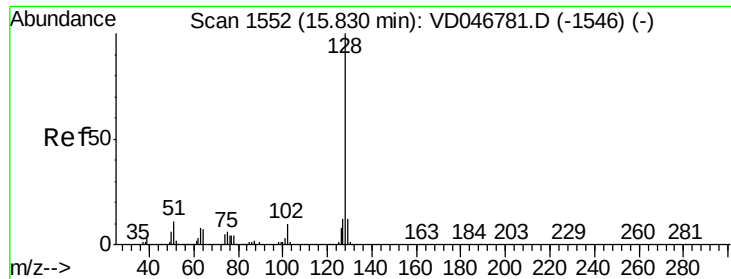


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 5.09 ug/l

RT: 15.81 min Scan# 1550

Delta R.T. -0.02 min

Lab File: VD046819.D

Acq: 21 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

MMB5

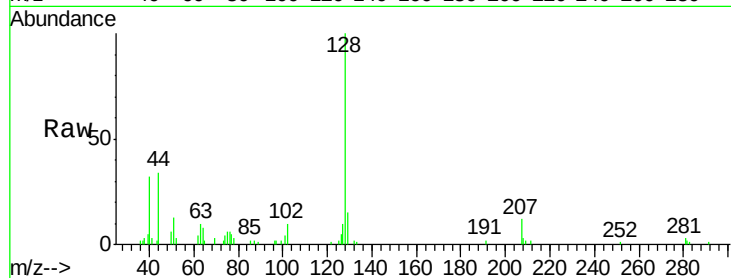
Tot Ion:128 Resp: 8189

Ion Ratio Lower Upper

128 100

127 9.9 9.8 14.6

129 15.5 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

