

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD091815\
 Data File : VD046789.D
 Acq On : 18 Sep 2015 18:22
 Operator : FY/SY
 Sample : G3652-03RE
 Misc : 5.91µm/5mL/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 18 19:32:56 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	175324	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	234648	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	206372	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.92	152	82368	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	88418	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
35) Dibromofluoromethane	6.21	113	90570	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	9.63	98	253879	43.83	ug/l	0.00
Spiked Amount			Recovery	=	87.66%	
62) 4-Bromofluorobenzene	12.85	95	88215	37.83	ug/l	0.00
Spiked Amount			Recovery	=	75.66%	

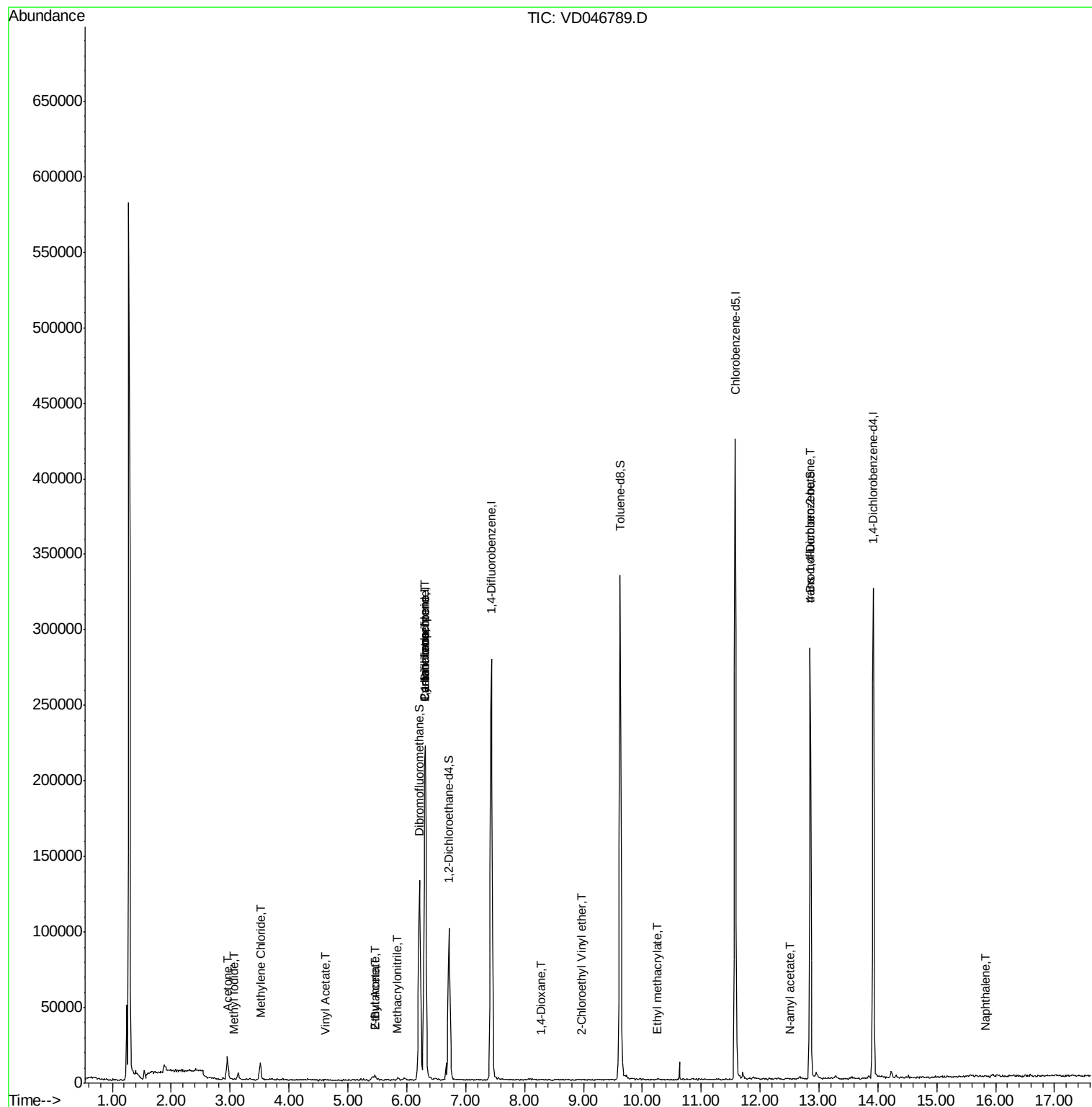
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	345	Below Cal	#	64
3) Chlorodifluoromethane	1.43	51	426	Below Cal	#	81
6) Bromomethane	1.99	94	624	Below Cal	#	49
11) Methyl Iodide	3.06	142	227	1.84	ug/l	18
12) Tert butyl alcohol	3.71	59	31	Below Cal	#	74
17) Acetone	2.95	43	21549	69.96	ug/l	90
21) Methylene Chloride	3.51	84	5342	3.19	ug/l	86
24) Vinyl Acetate	4.63	43	270	15.22	ug/l	82
26) 2-Butanone	5.46	43	4605	13.30	ug/l	99
31) Cyclohexane	6.31	56	4757	1.74	ug/l	15
36) 1,1-Dichloropropene	6.30	75	15743	5.74	ug/l	53
37) Ethyl Acetate	5.46	43	4605	5.23	ug/l	87
38) Carbon Tetrachloride	6.31	117	16635	5.84	ug/l	16
41) Methacrylonitrile	5.85	41	661	1.34	ug/l	61
49) 1,4-Dioxane	8.28	88	40	6.09	ug/l	20
56) Ethyl methacrylate	10.24	69	417	4.21	ug/l	35
58) 2-Chloroethyl Vinyl ether	8.97	63	43	6.40	ug/l	53
74) N-amyl acetate	12.52	43	54	4.75	ug/l	16
81) trans-1,4-Dichloro-2-buten	12.85	75	44478	152.85	ug/l	9
95) Naphthalene	15.83	128	383	2.59	ug/l	79

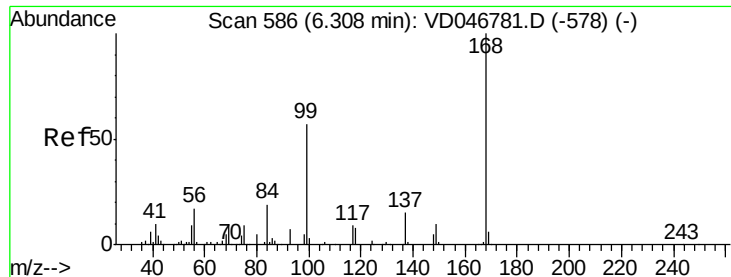
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.31 min Scan# 587

Delta R.T. 0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

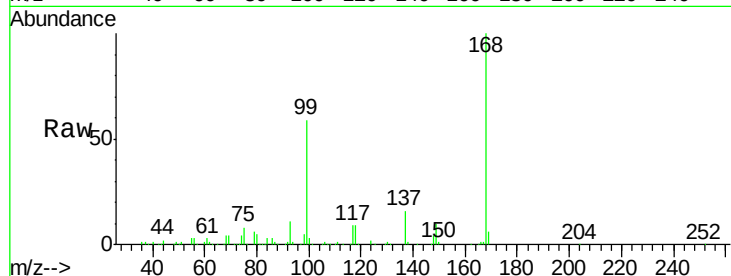
ClientSampled :

Tot Ion:168 Resp: 175324

Ion Ratio Lower Upper

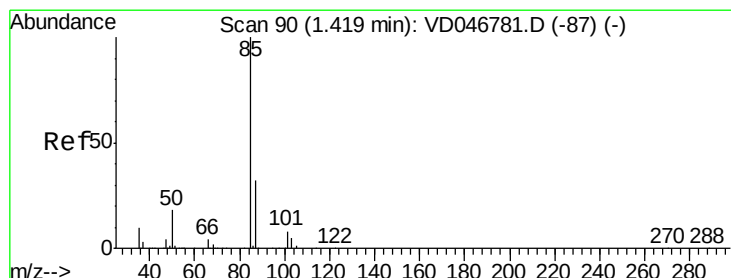
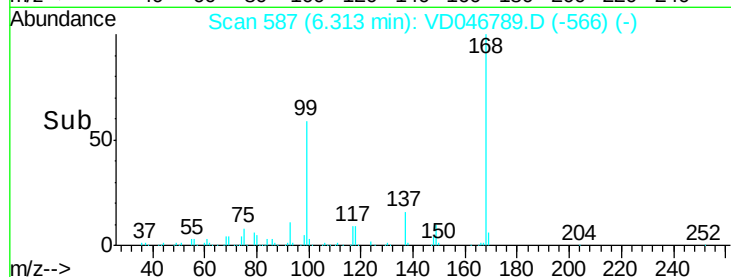
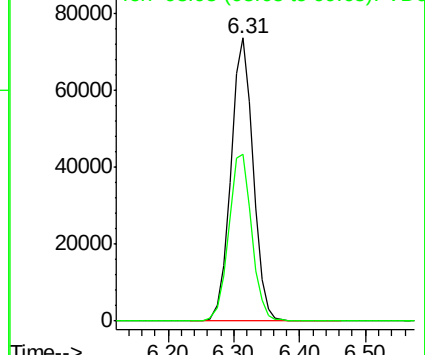
168 100

99 58.8 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# 91

Delta R.T. 0.01 min

Lab File: VD046789.D

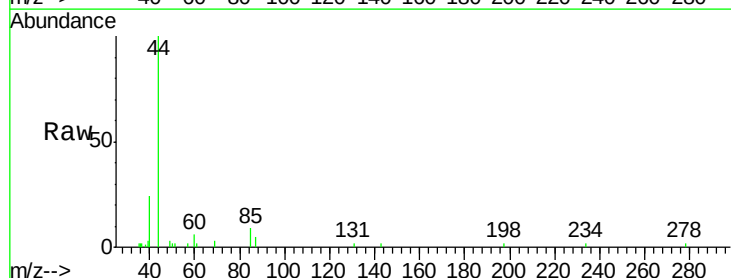
Acq: 18 Sep 2015 18:22

Tgt Ion: 85 Resp: 345

Ion Ratio Lower Upper

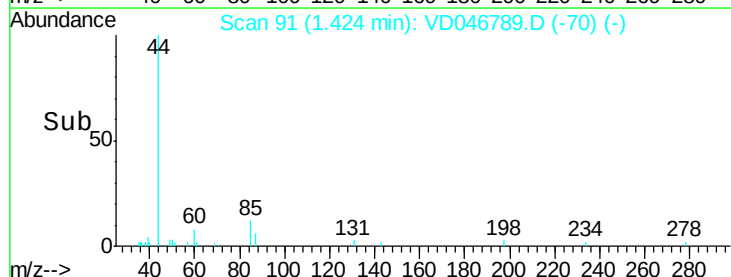
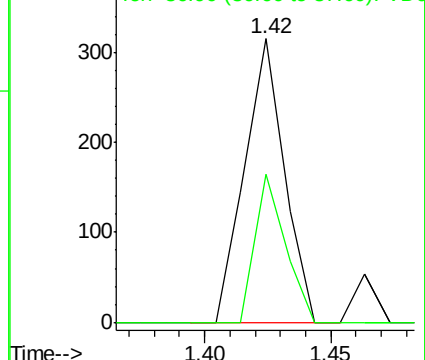
85 100

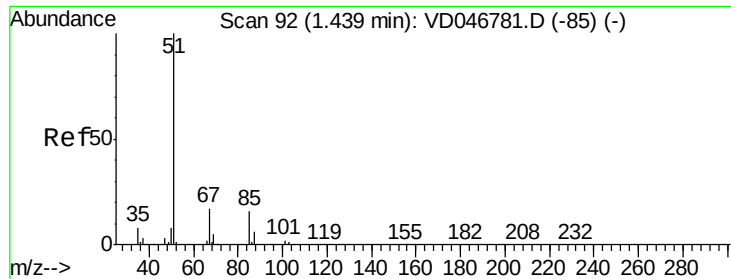
87 52.4 16.2 48.5#



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: 1.43 min Scan# 92

Delta R.T. -0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

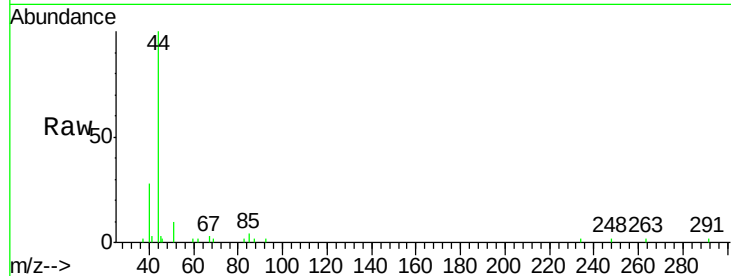
ClientSampleId :

Tot Ion: 51 Resp: 426

Ion Ratio Lower Upper

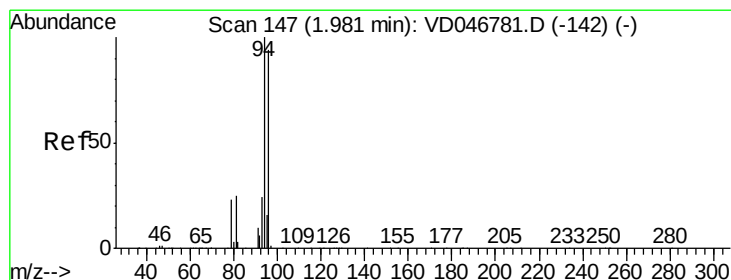
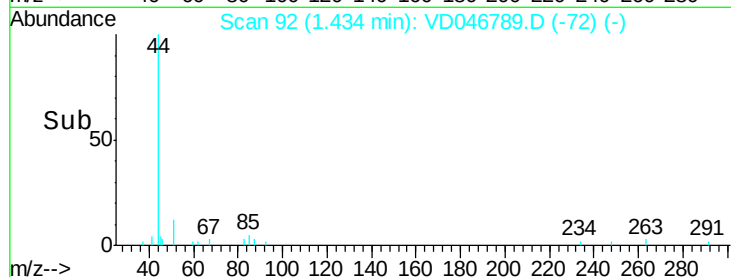
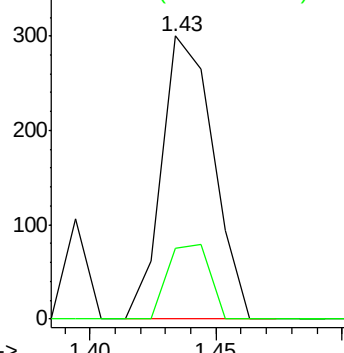
51 100

67 21.4 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: 1.99 min Scan# 148

Delta R.T. 0.00 min

Lab File: VD046789.D

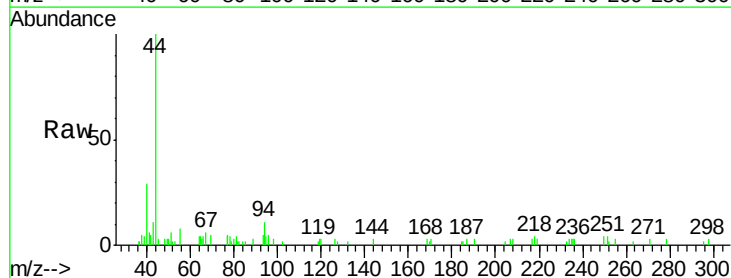
Acq: 18 Sep 2015 18:22

Tgt Ion: 94 Resp: 624

Ion Ratio Lower Upper

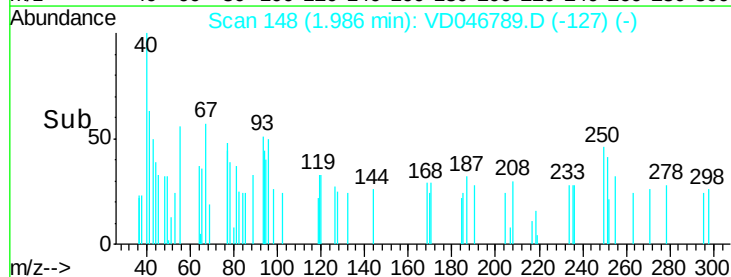
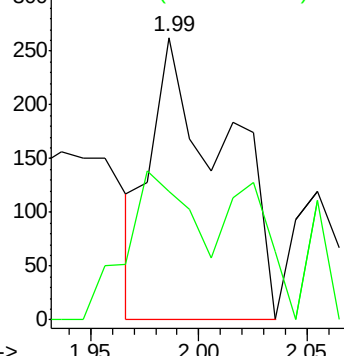
94 100

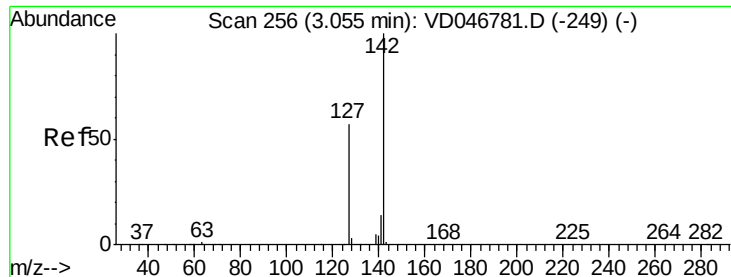
96 45.2 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

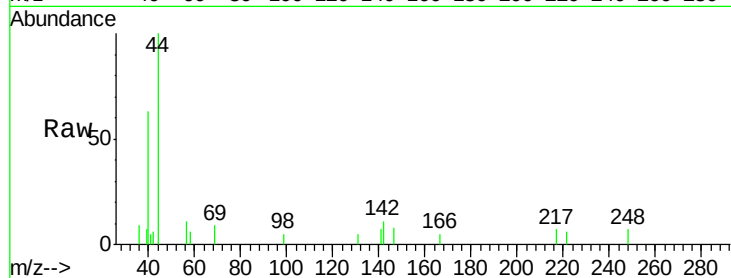




#11
Methvl Iodide
Concen: 1.84 ua/l
RT: 3.06 min Scan# 257
Delta R.T. 0.01 min
Lab File: VD046789.D
Acq: 18 Sep 2015 18:22

Instrument :
MSVOA_D
ClientSampled :

Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	41.2	61.8#
141	60.2	11.6	17.4#

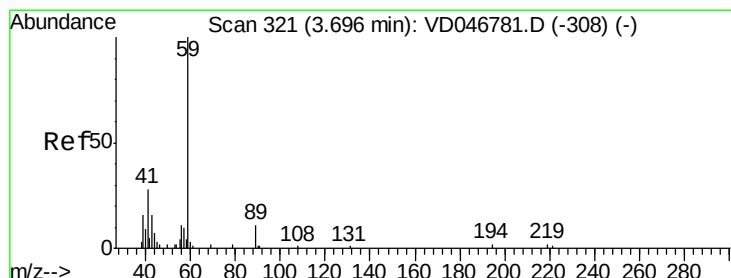
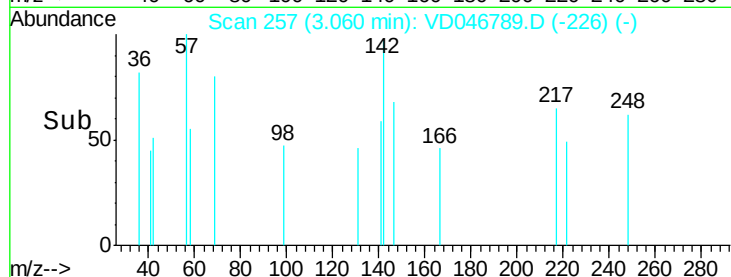
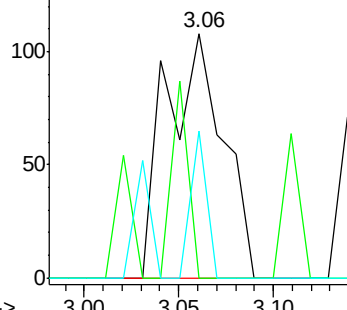


Abundance

Ion 141.85 (141.55 to 142.55): V

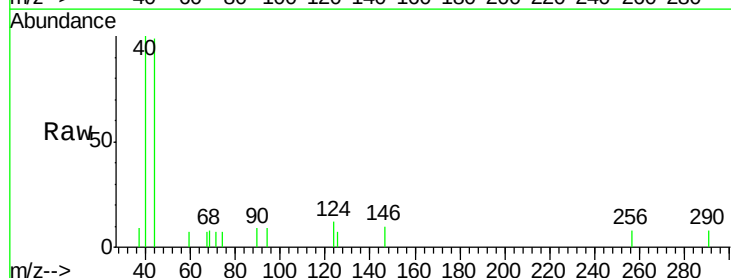
Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.71 min Scan# 323
Delta R.T. 0.01 min
Lab File: VD046789.D
Acq: 18 Sep 2015 18:22

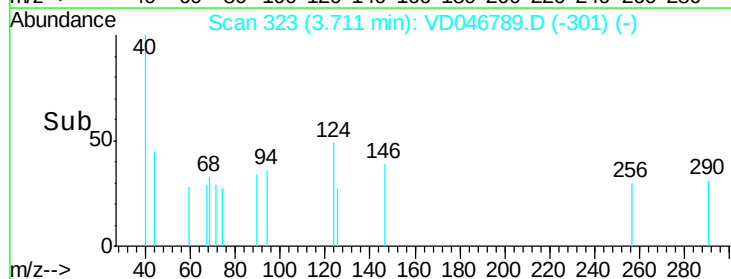
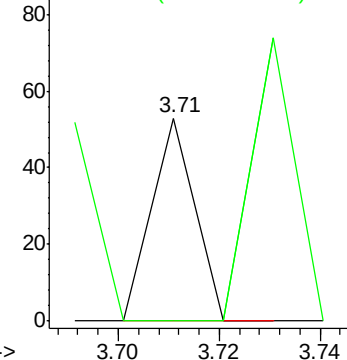
Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.6#

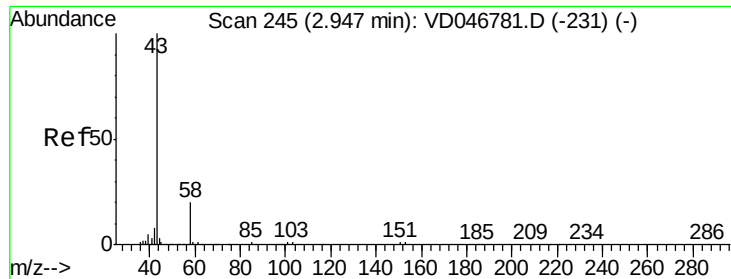


Abundance

Ion 58.95 (58.65 to 59.65): V

Ion 56.95 (56.65 to 57.65): V





#17

Acetone

Concen: 69.96 ug/l

RT: 2.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

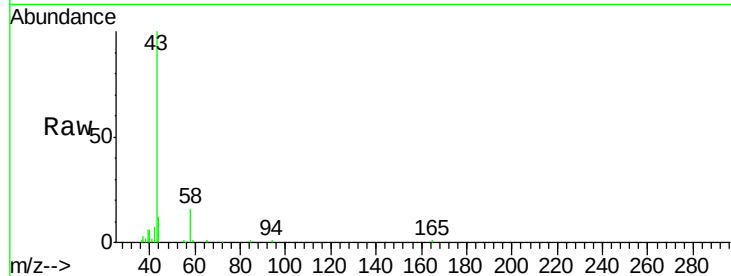
ClientSampleId :

Tot Ion: 43 Resp: 21549

Ion Ratio Lower Upper

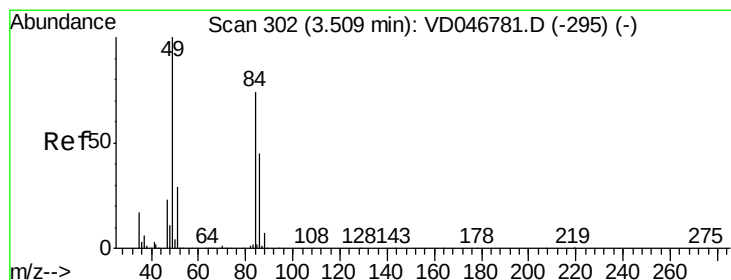
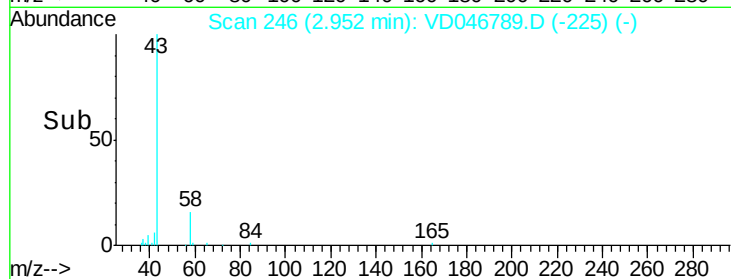
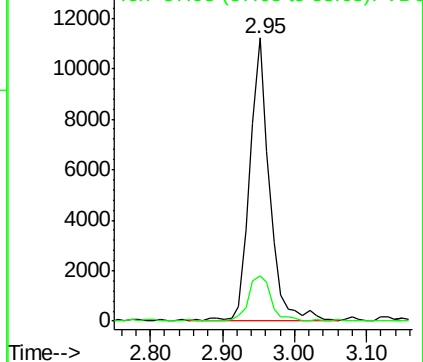
43 100

58 16.2 16.6 24.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#21

Methylene Chloride

Concen: 3.19 ug/l

RT: 3.51 min Scan# 303

Delta R.T. 0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Tgt Ion: 84 Resp: 5342

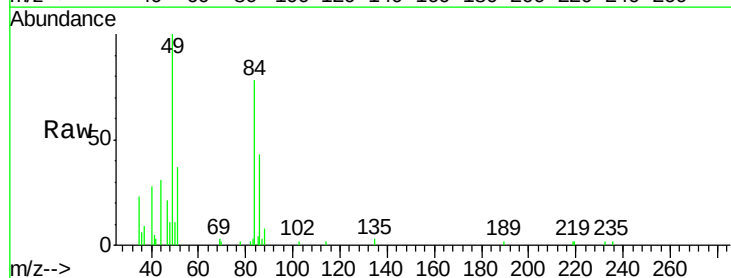
Ion Ratio Lower Upper

84 100

49 128.5 122.1 183.1

51 47.6 33.6 50.4

86 54.9 48.3 72.5

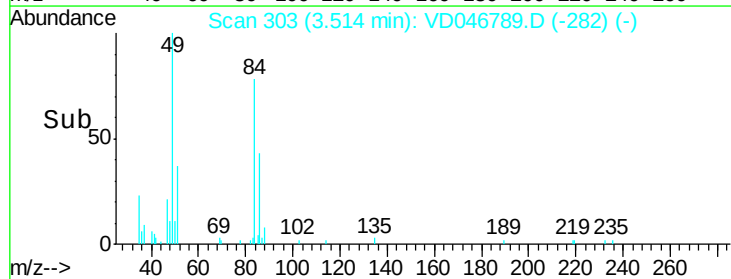
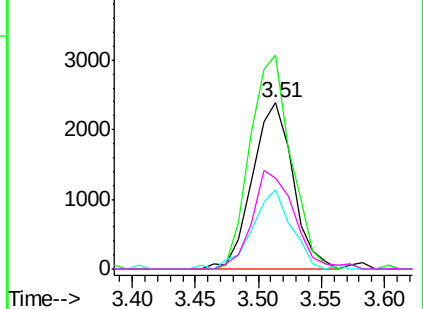


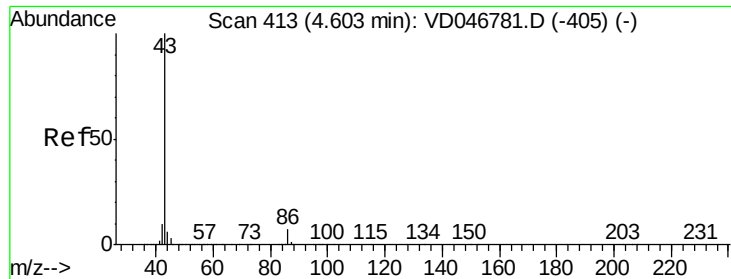
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#24

Vinyl Acetate

Concen: 15.22 ug/l

RT: 4.63 min Scan# 416

Delta R.T. 0.02 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

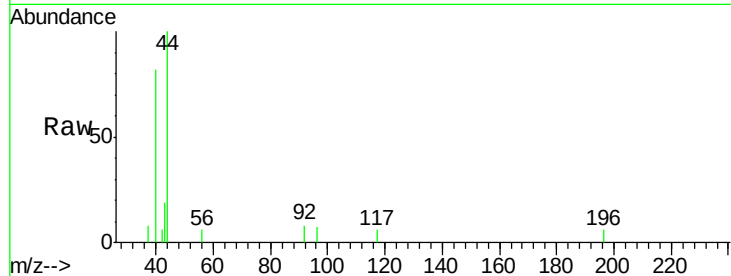
ClientSampleId :

Tot Ion: 43 Resp: 270

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

4.63

150

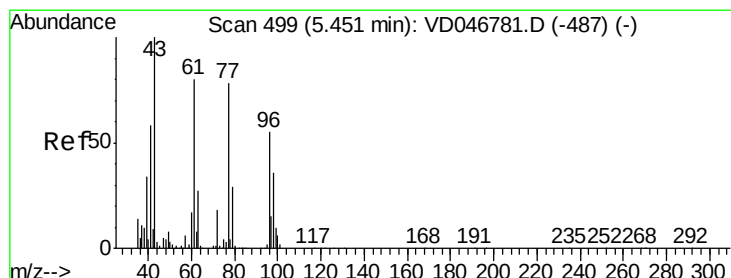
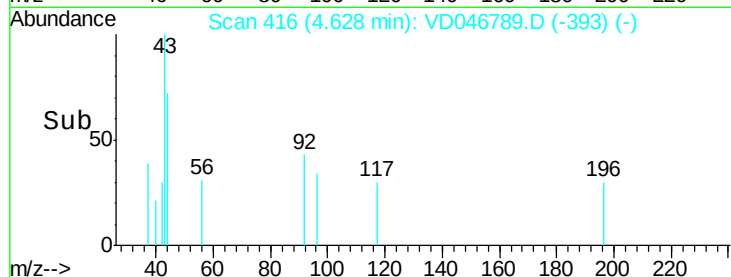
100

50

0

4.58 4.60 4.62 4.64 4.66

Time-->



#26

2-Butanone

Concen: 13.30 ug/l

RT: 5.46 min Scan# 500

Delta R.T. 0.00 min

Lab File: VD046789.D

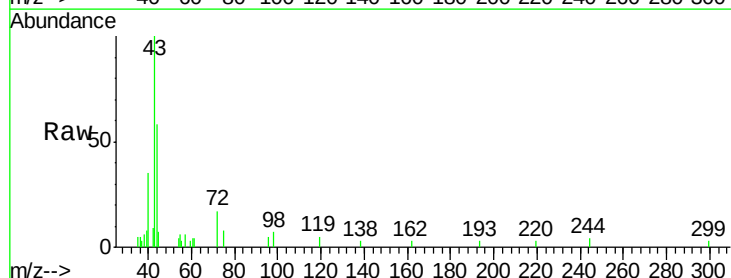
Acq: 18 Sep 2015 18:22

Tgt Ion: 43 Resp: 4605

Ion Ratio Lower Upper

43 100

72 17.3 13.4 20.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

2000

1500

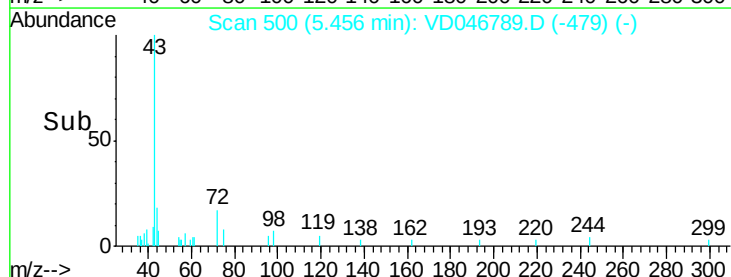
1000

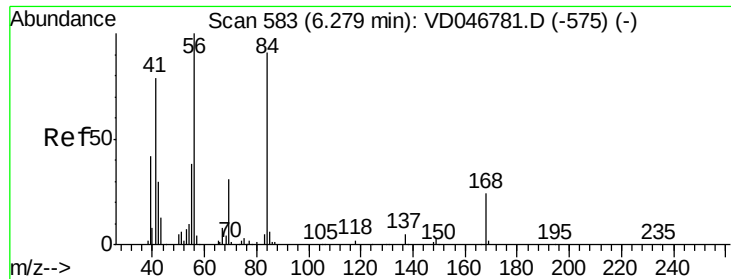
500

0

5.40 5.46 5.50 5.56 5.60

Time-->

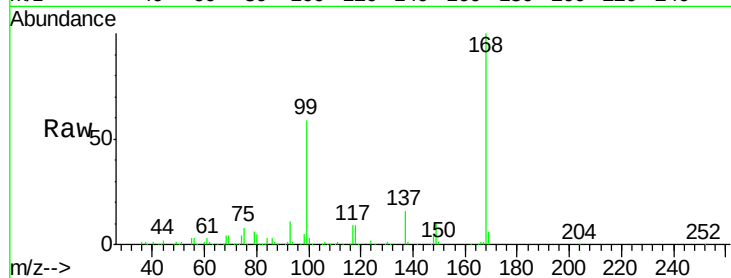




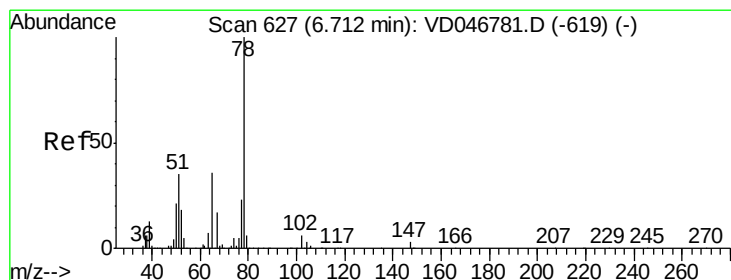
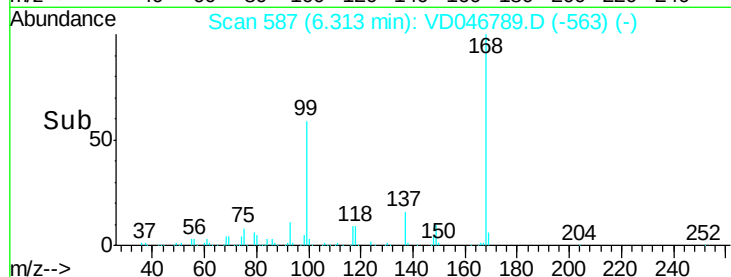
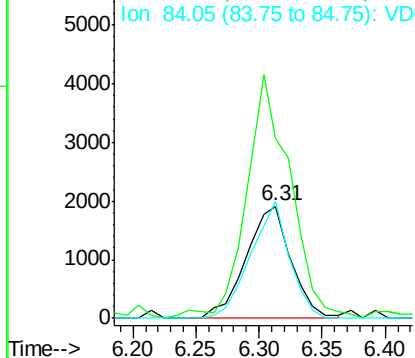
#31
Cyclohexane
Concen: 1.74 ug/l
RT: 6.31 min Scan# 587
Delta R.T. 0.03 min
Lab File: VD046789.D
Acq: 18 Sep 2015 18:22

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 4757
Ion Ratio Lower Upper
56 100
69 160.4 23.4 35.0#
84 103.7 63.8 95.8#

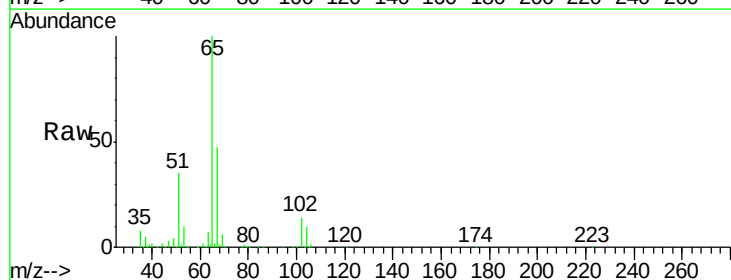


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

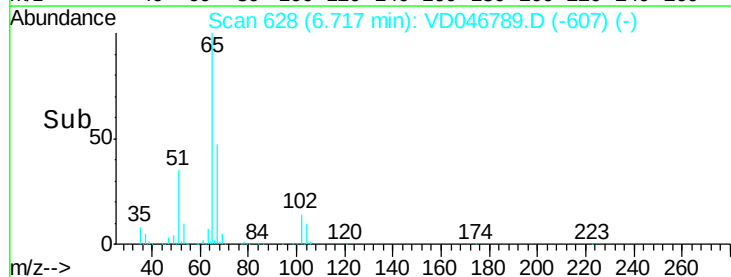
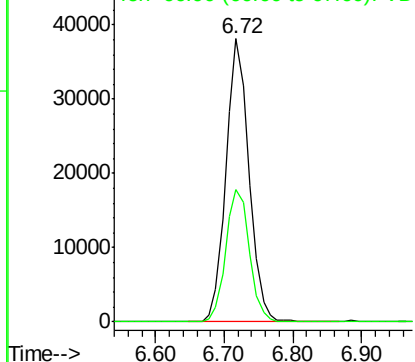


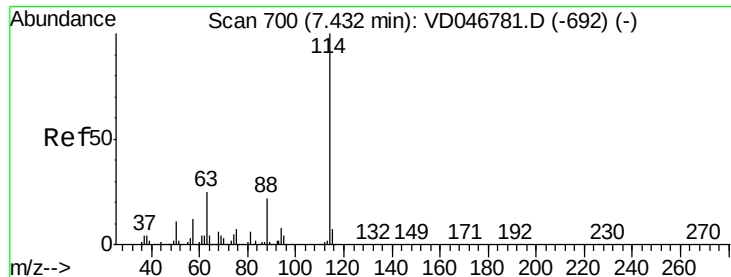
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.72 min Scan# 628
Delta R.T. 0.00 min
Lab File: VD046789.D
Acq: 18 Sep 2015 18:22

Tgt Ion: 65 Resp: 88418
Ion Ratio Lower Upper
65 100
67 47.0 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: 7.44 min Scan# 701

Delta R.T. 0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

ClientSampleId :

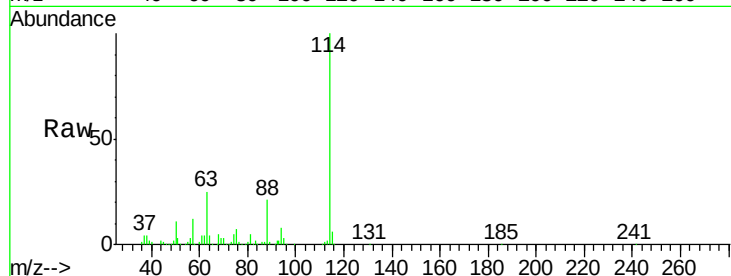
Tot Ion:114 Resp: 234648

Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.8

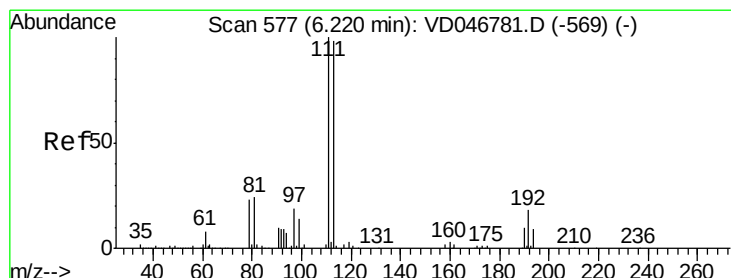
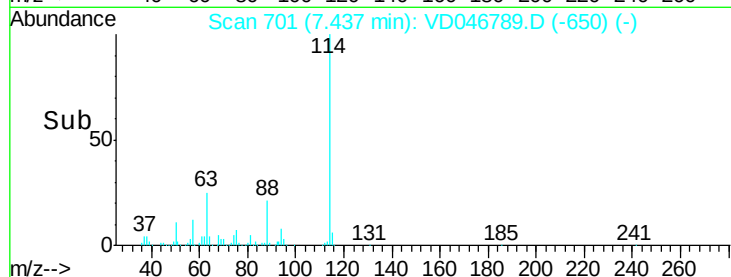
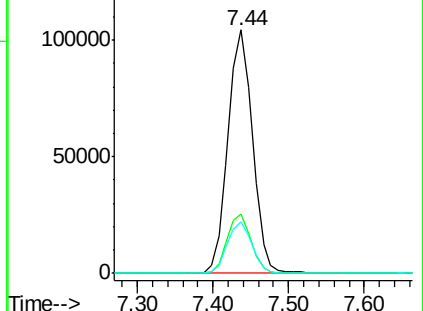
88 21.1 0.0 43.6



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: 6.21 min Scan# 577

Delta R.T. -0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

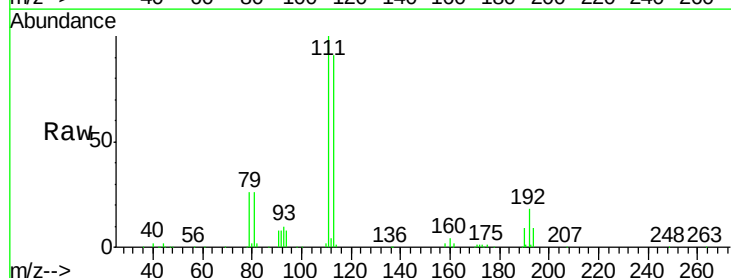
Tgt Ion:113 Resp: 90570

Ion Ratio Lower Upper

113 100

111 109.4 79.4 119.0

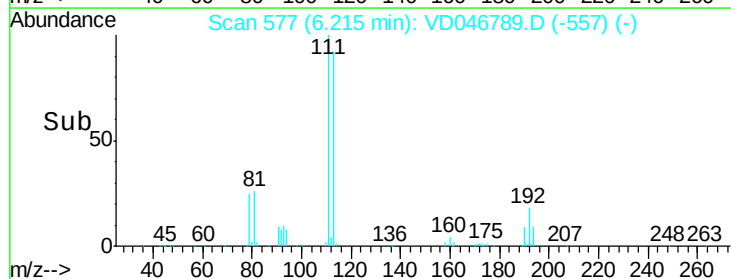
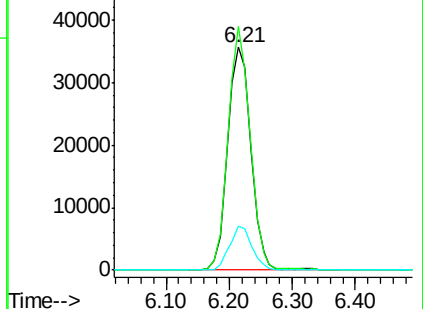
192 19.5 14.6 22.0

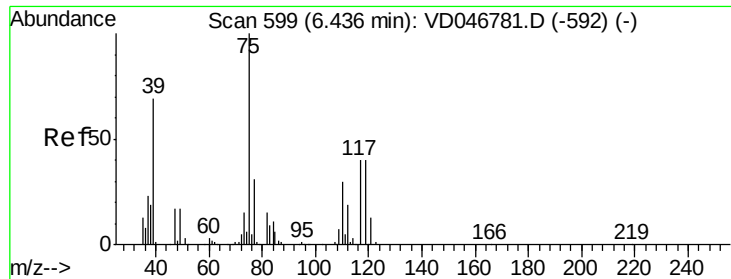


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

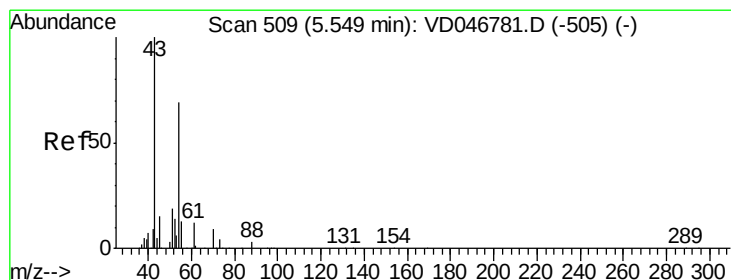
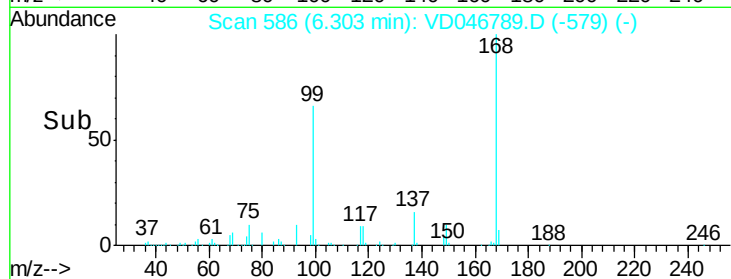
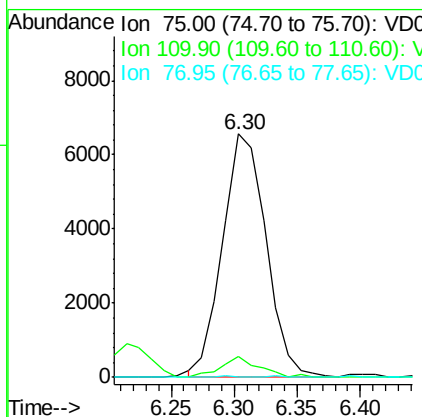
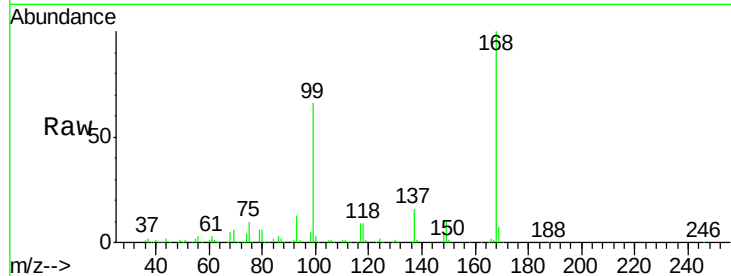




#36
 1,1-Dichloropropene
 Concen: 5.74 ug/l
 RT: 6.30 min Scan# 586
 Delta R.T. -0.13 min
 Lab File: VD046789.D
 Acq: 18 Sep 2015 18:22

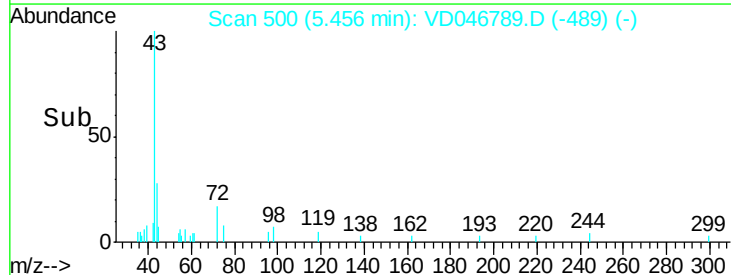
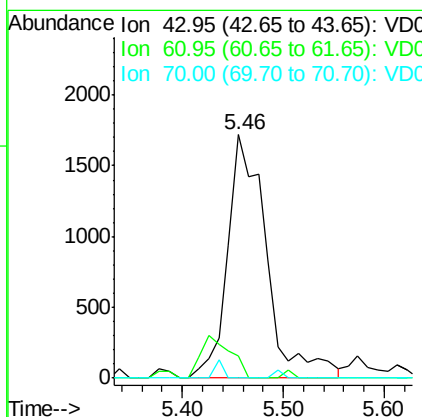
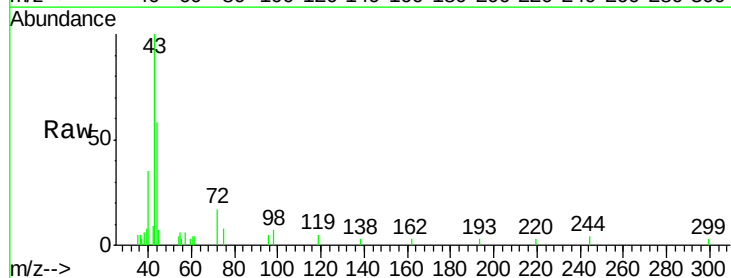
Instrument :
 MSVOA_D
 ClientSampleId :

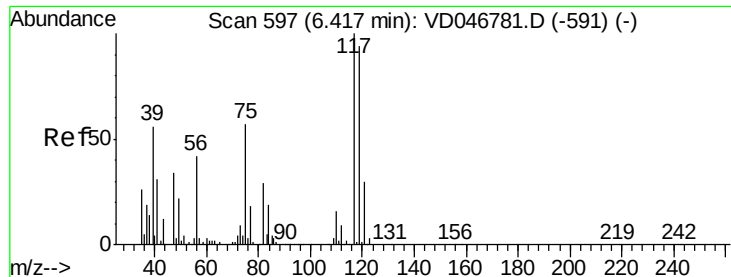
Tot Ion: 75 Resp: 15743
 Ion Ratio Lower Upper
 75 100
 110 8.5 13.7 41.0#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 5.23 ug/l
 RT: 5.46 min Scan# 500
 Delta R.T. -0.09 min
 Lab File: VD046789.D
 Acq: 18 Sep 2015 18:22

Tgt Ion: 43 Resp: 4605
 Ion Ratio Lower Upper
 43 100
 61 8.8 9.4 14.2#
 70 0.0 6.0 9.0#





#38

Carbon Tetrachloride

Concen: 5.84 ug/l

RT: 6.31 min Scan# 587

Delta R.T. -0.10 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

ClientSampleId :

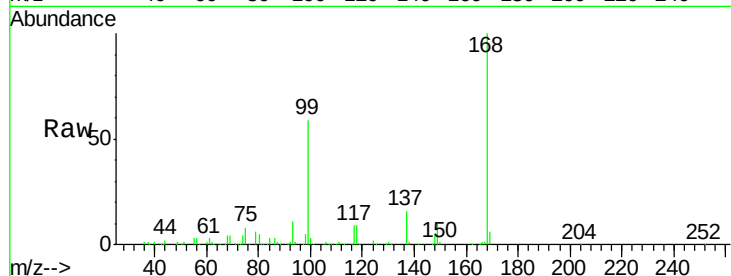
Tot Ion:117 Resp: 16635

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.4#

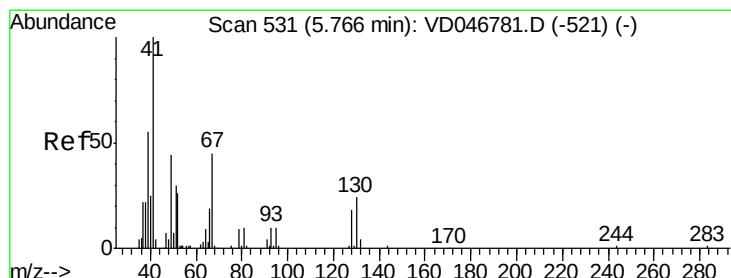
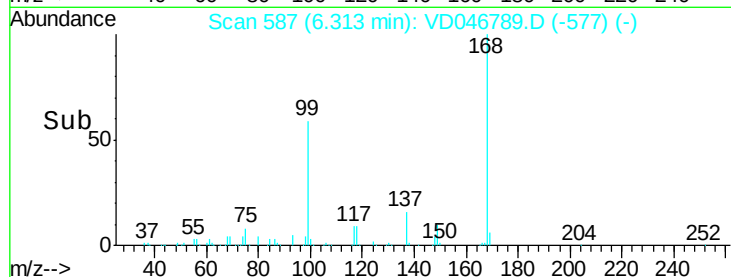
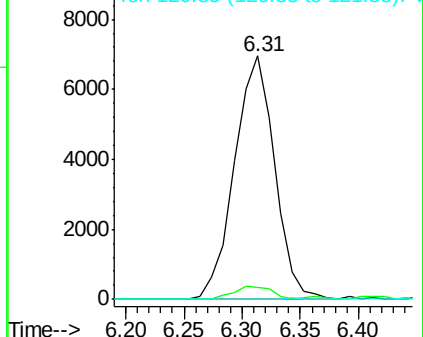
121 0.0 24.5 36.7#



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



#41

Methacrylonitrile

Concen: 1.34 ug/l

RT: 5.85 min Scan# 540

Delta R.T. 0.08 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Tgt Ion: 41 Resp: 661

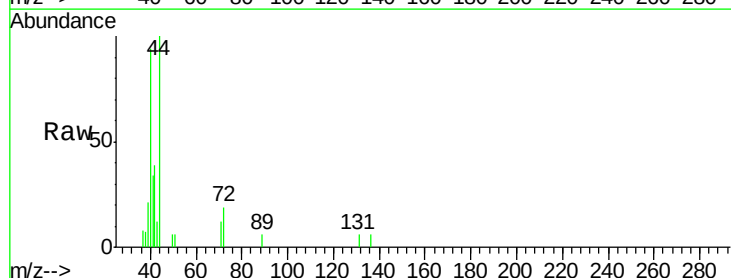
Ion Ratio Lower Upper

41 100

39 62.3 40.2 60.4#

67 0.0 32.0 48.0#

52 0.0 13.8 20.8#

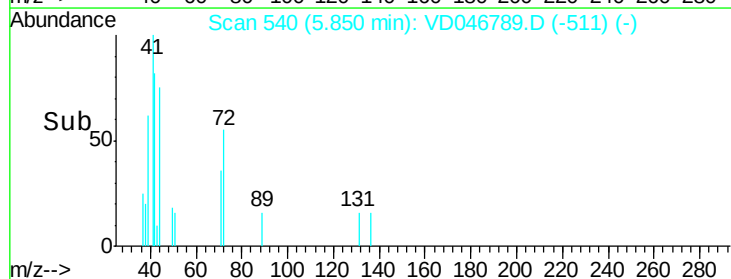
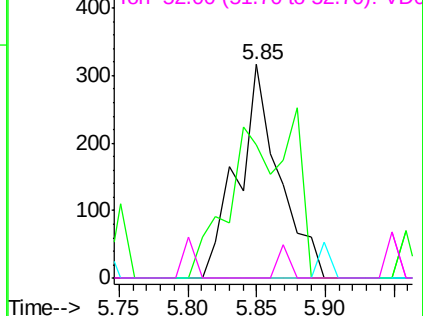


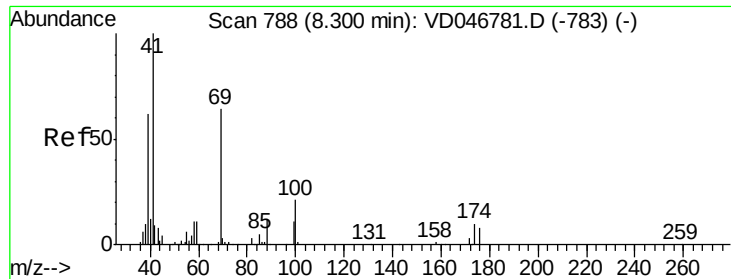
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#49

1,4-Dioxane

Concen: 6.09 ug/l

RT: 8.28 min Scan# 787

Delta R.T. -0.01 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

ClientSampled :

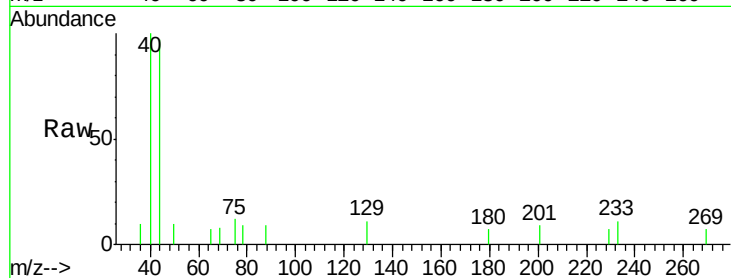
Tot Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

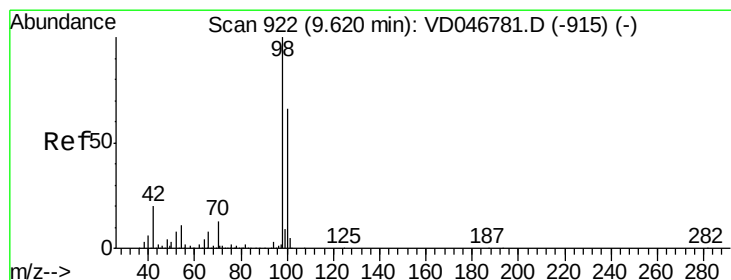
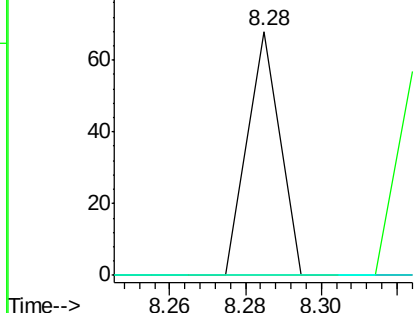
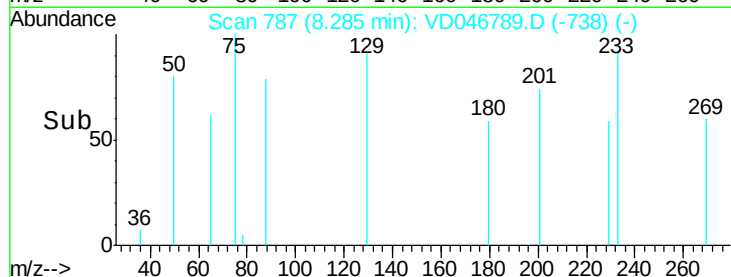
58 0.0 48.3 72.5#



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: 6.09 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.00 min

Lab File: VD046789.D

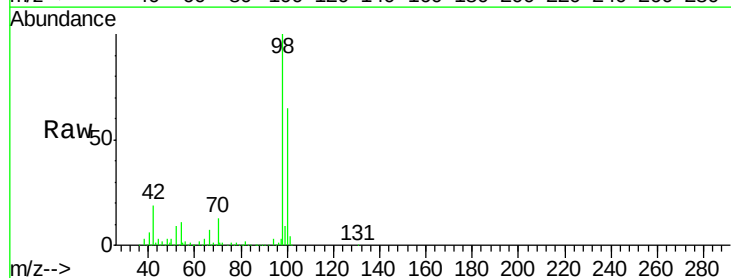
Acq: 18 Sep 2015 18:22

Tgt Ion: 98 Resp: 253879

Ion Ratio Lower Upper

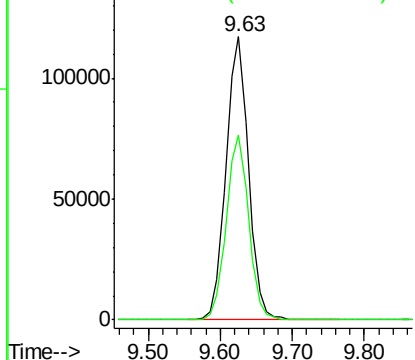
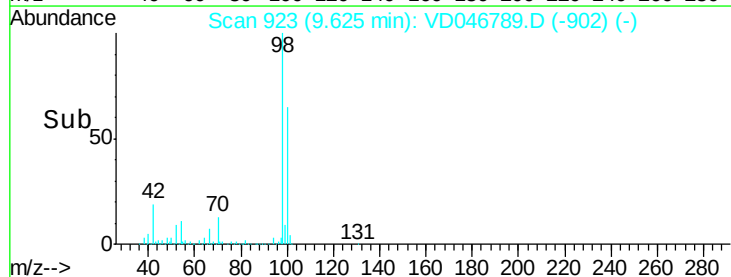
98 100

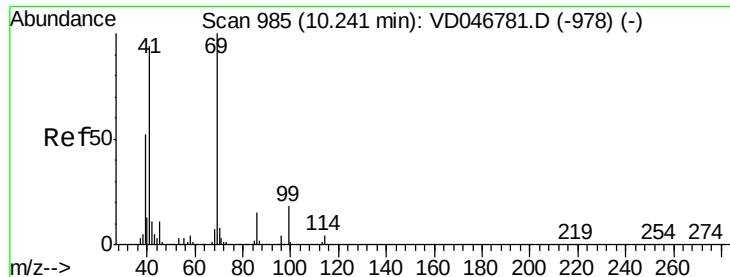
100 65.3 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#56

Ethyl methacrylate

Concen: 4.21 ug/l

RT: 10.24 min Scan# 985

Delta R.T. -0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

ClientSampled :

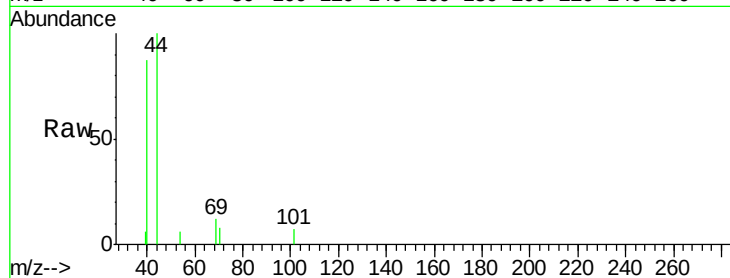
Tot Ion: 69 Resp: 417

Ion Ratio Lower Upper

69 100

41 0.0 75.4 113.0#

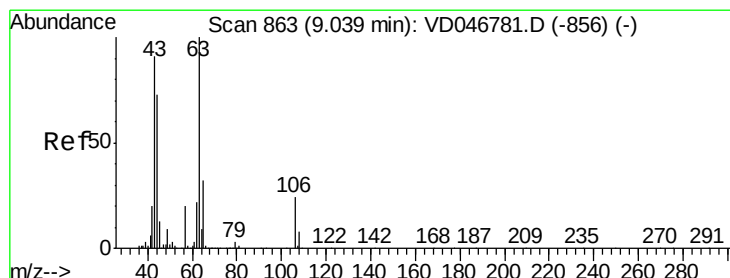
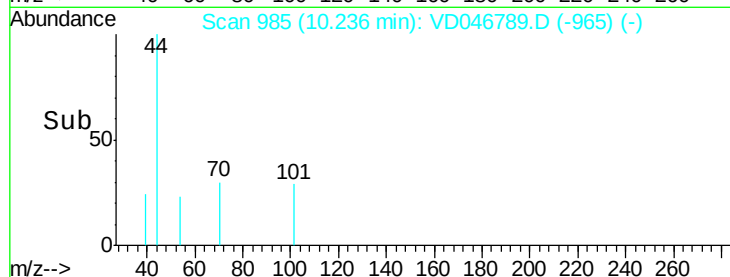
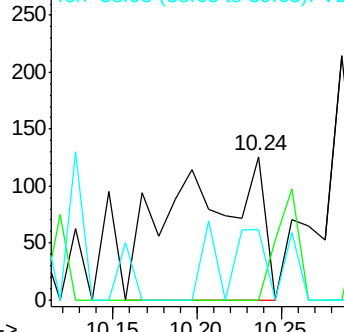
39 48.4 41.0 61.4



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: 6.40 ug/l

RT: 8.97 min Scan# 857

Delta R.T. -0.06 min

Lab File: VD046789.D

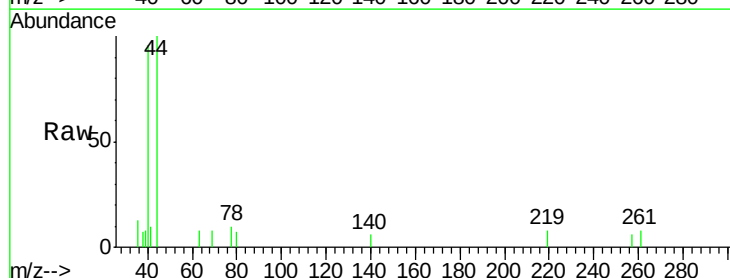
Acq: 18 Sep 2015 18:22

Tgt Ion: 63 Resp: 43

Ion Ratio Lower Upper

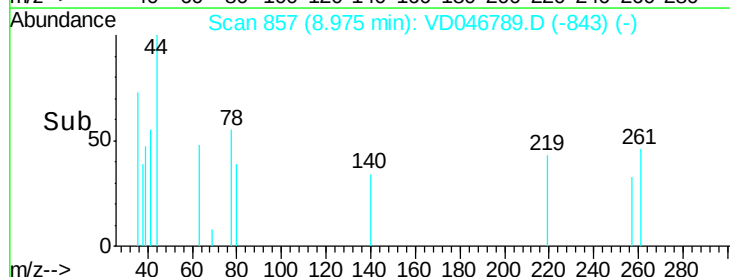
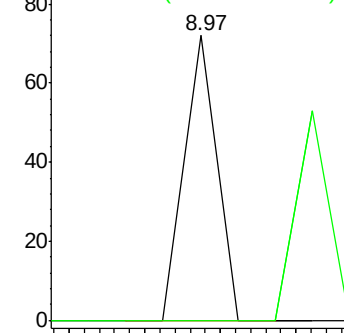
63 100

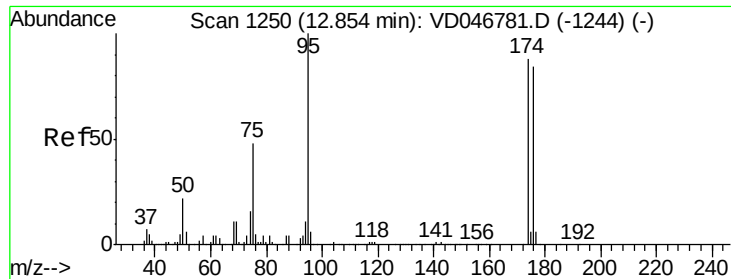
106 0.0 17.8 26.8#



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: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

ClientSampleId :

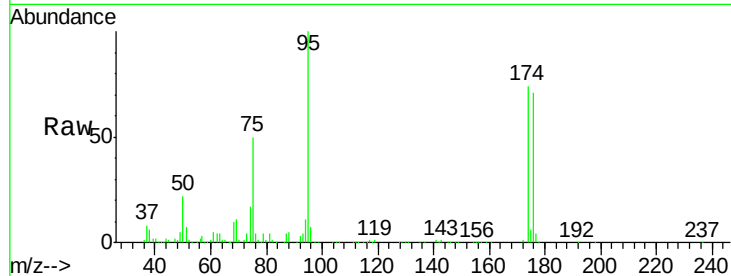
Tot Ion: 95 Resp: 88215

Ion Ratio Lower Upper

95 100

174 74.0 0.0 149.8

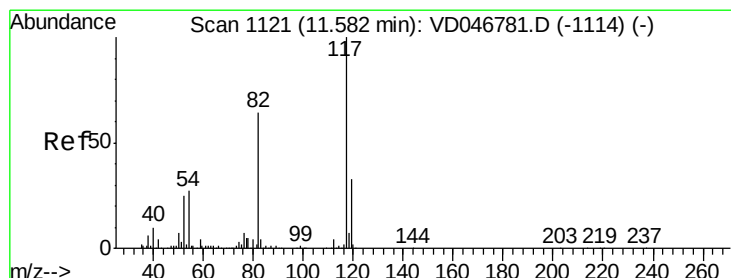
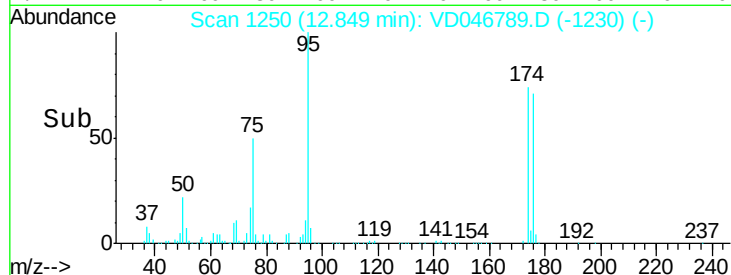
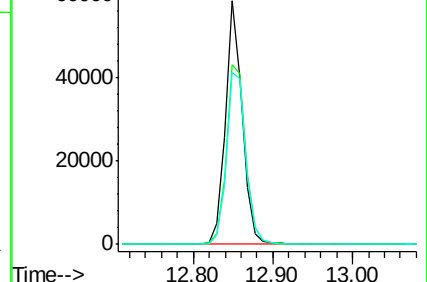
176 70.8 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): VD046789.D (-1244) (-)

Ion 173.90 (173.60 to 174.60): VD046789.D (-1244) (-)

Ion 175.90 (175.60 to 176.60): VD046789.D (-1244) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

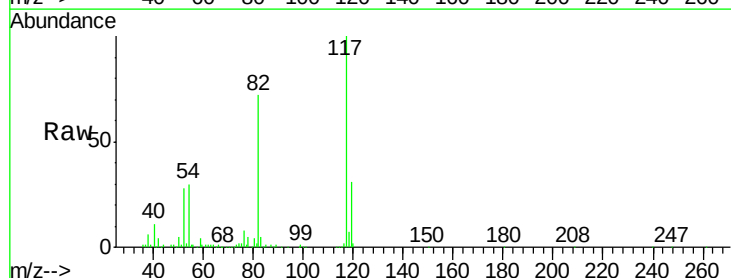
Tgt Ion: 117 Resp: 206372

Ion Ratio Lower Upper

117 100

82 72.4 50.6 75.8

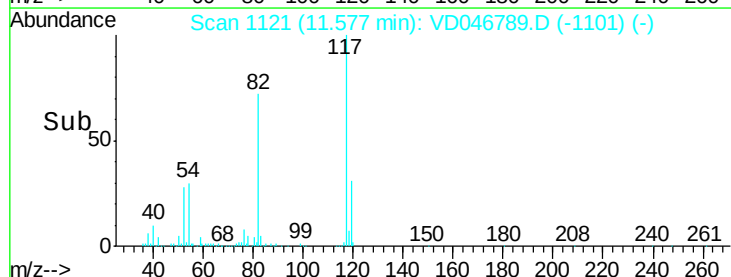
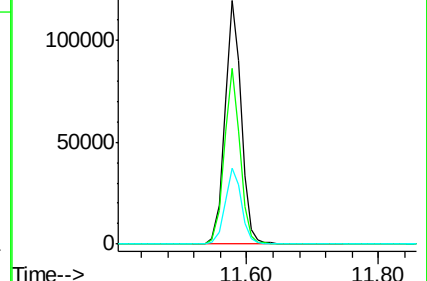
119 31.3 25.8 38.8

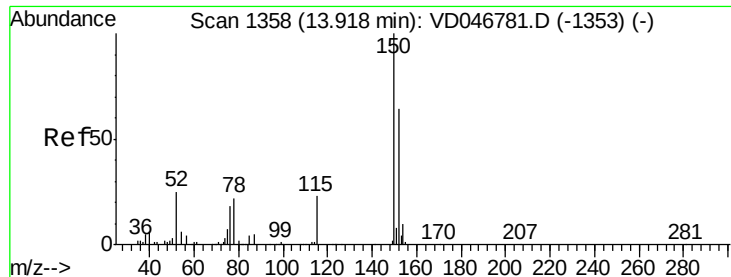


Abundance Ion 116.95 (116.65 to 117.65): VD046789.D (-1114) (-)

Ion 82.05 (81.75 to 82.75): VD046789.D (-1114) (-)

Ion 118.95 (118.65 to 119.65): VD046789.D (-1114) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.92 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

ClientSampleId :

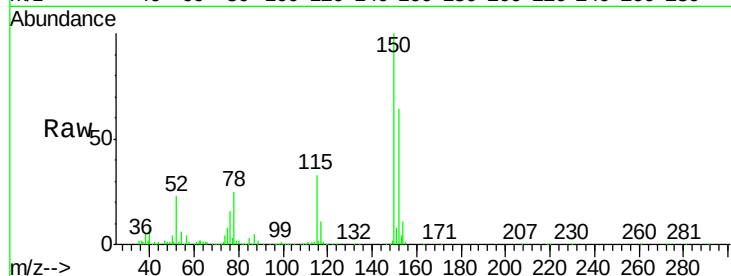
Tot Ion:152 Resp: 82368

Ion Ratio Lower Upper

152 100

115 51.3 26.2 78.6

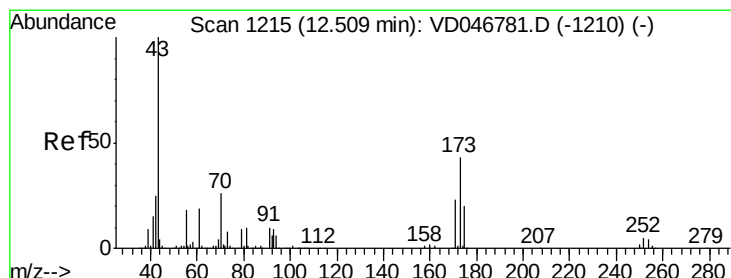
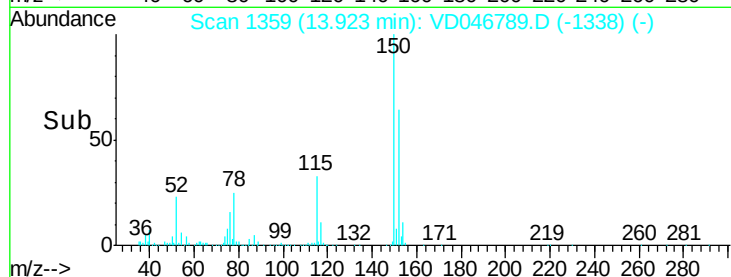
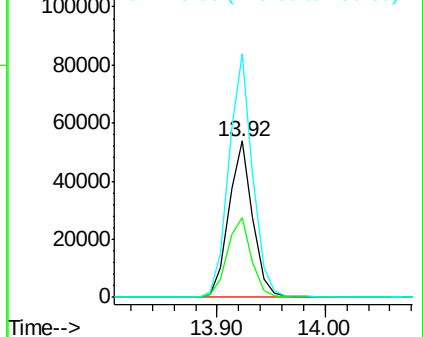
150 155.8 0.0 311.8



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-amyl acetate

Concen: 4.75 ug/l

RT: 12.52 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Tgt Ion: 43 Resp: 54

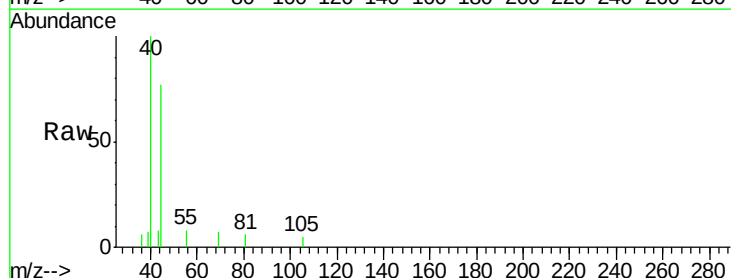
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 95.6 14.5 21.7#

61 0.0 14.6 21.8#

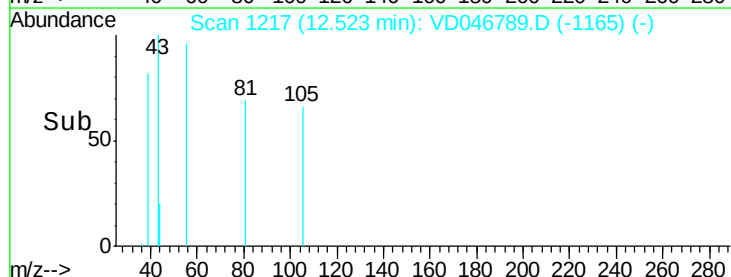
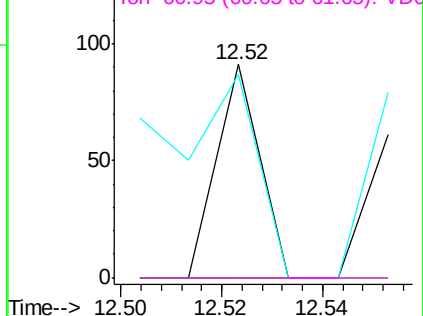


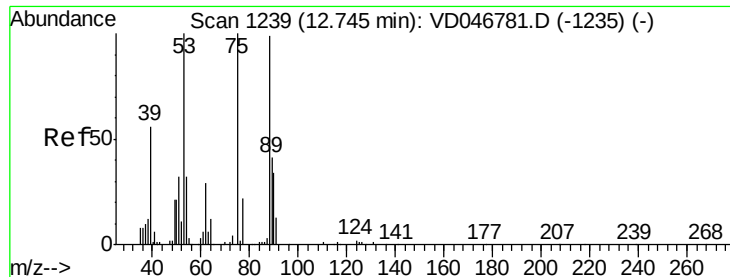
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 152.85 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. 0.10 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

Instrument :

MSVOA_D

ClientSampleId :

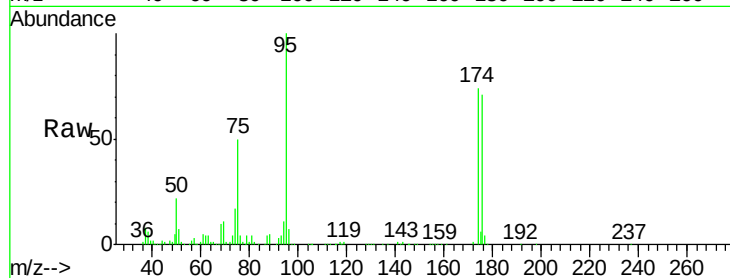
Tot Ion: 75 Resp: 44478

Ion Ratio Lower Upper

75 100

53 0.3 82.3 123.5#

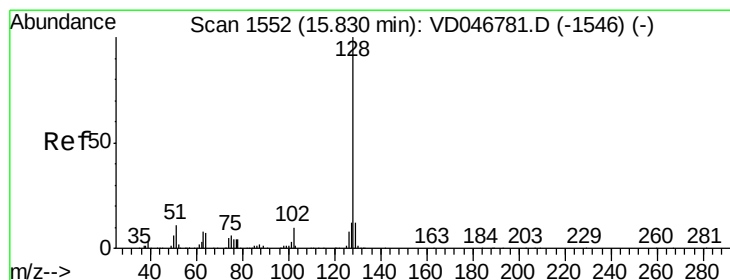
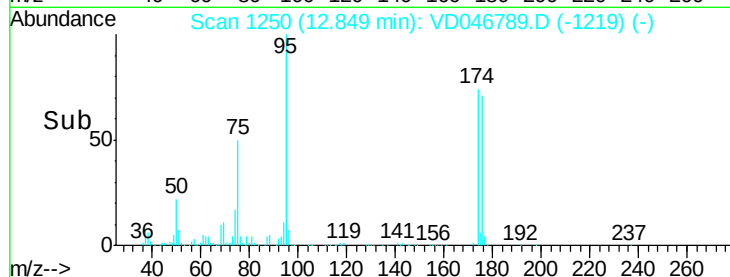
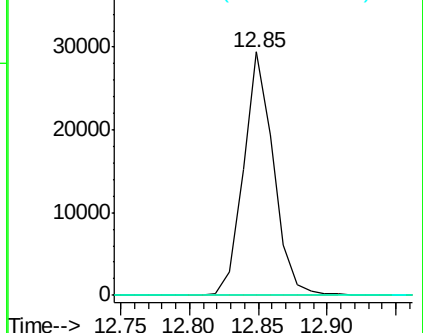
89 0.0 36.6 54.8#



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: 2.59 ug/l

RT: 15.83 min Scan# 1552

Delta R.T. -0.00 min

Lab File: VD046789.D

Acq: 18 Sep 2015 18:22

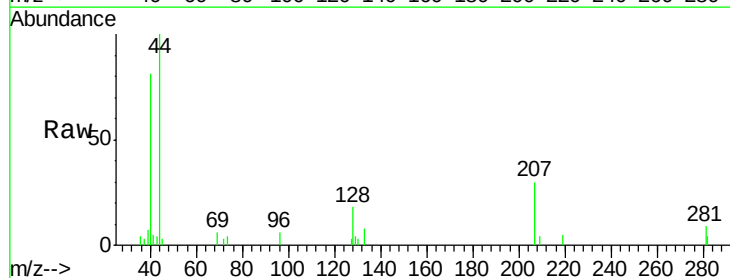
Tgt Ion: 128 Resp: 383

Ion Ratio Lower Upper

128 100

127 19.2 9.8 14.6#

129 20.2 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

