

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026654.D
 Acq On : 8 Jan 2016 23:36
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 12 01:59:31 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.62	49	743582	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.29	114	2344981	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.71	117	3117158	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	16.25	95	2539702	10.22	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%	

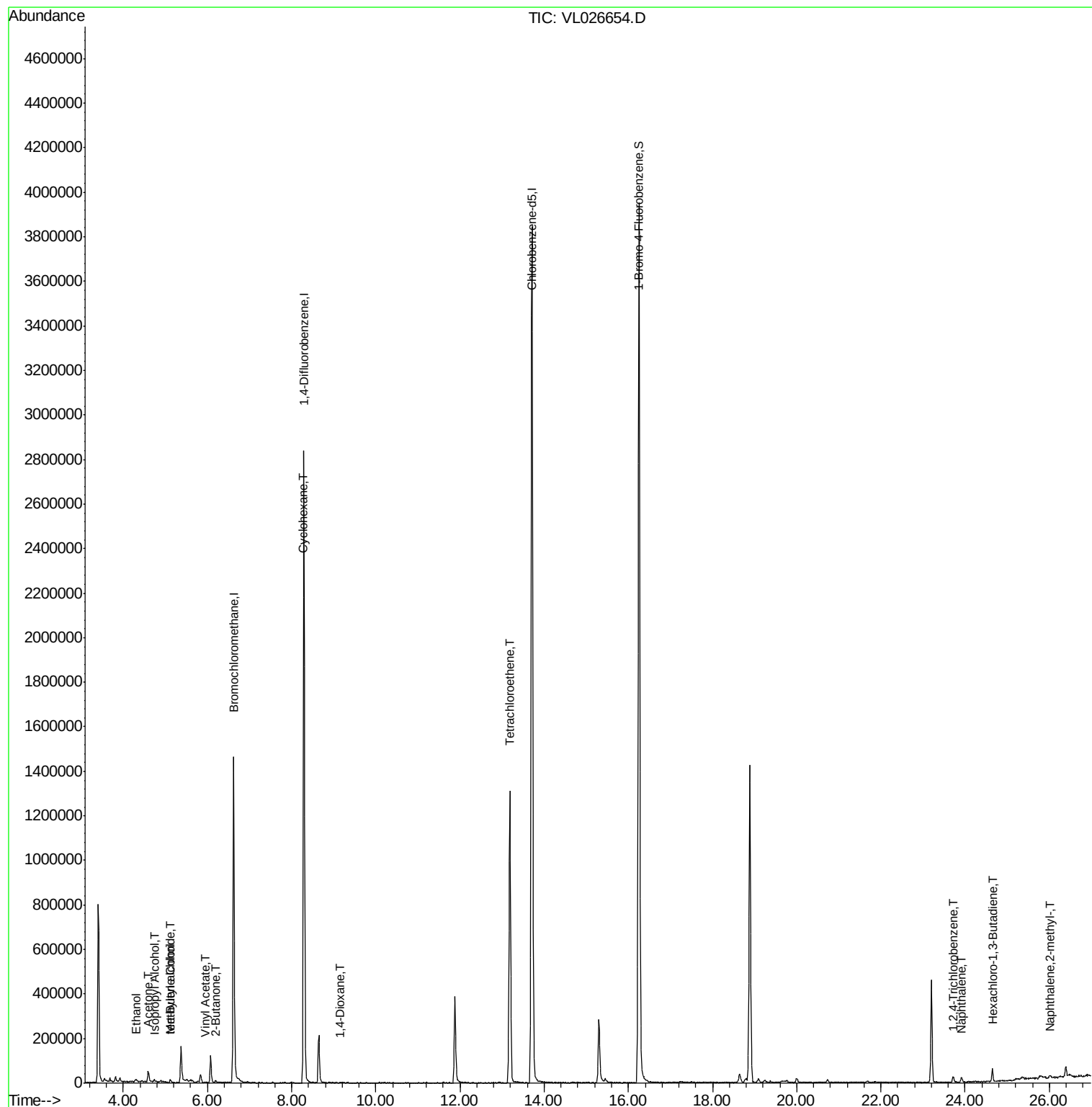
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	4.31	45	1474	0.22	ppbv #	34
15) Acetone	4.59	43	42623	0.35	ppbv #	17
17) tert-Butyl alcohol	5.11	59	10874	0.12	ppbv	97
19) Isopropyl Alcohol	4.74	45	8289	0.16	ppbv #	1
20) Methylene Chloride	5.12	84	2609	0.05	ppbv #	86
23) Vinyl Acetate	5.96	43	5987	0.03	ppbv #	79
30) Cyclohexane	8.27	84	3686	0.04	ppbv #	1
34) 2-Butanone	6.18	43	10943	0.09	ppbv	93
40) 1,4-Dioxane	9.16	88	897	0.05	ppbv #	1
52) Tetrachloroethene	13.19	164	6783	0.06	ppbv #	25
78) Hexachloro-1,3-Butadiene	24.64	225	14657	0.10	ppbv	92
79) Naphthalene	23.91	128	13216	0.04	ppbv #	94
80) Naphthalene,2-methyl-	26.02	142	7890	0.13	ppbv #	67
81) 1,2,4-Trichlorobenzene	23.71	180	13252	0.08	ppbv	98

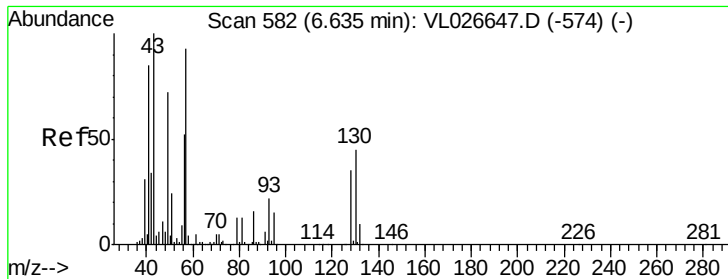
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.62 min Scan# 580

Delta R.T. -0.01 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampled :

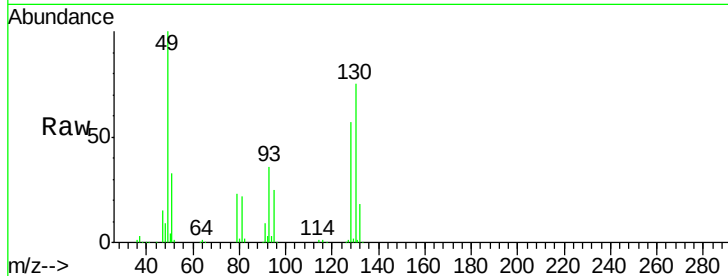
Tot Ion: 49 Resp: 743582

Ion Ratio Lower Upper

49 100

128 56.7 25.9 77.7

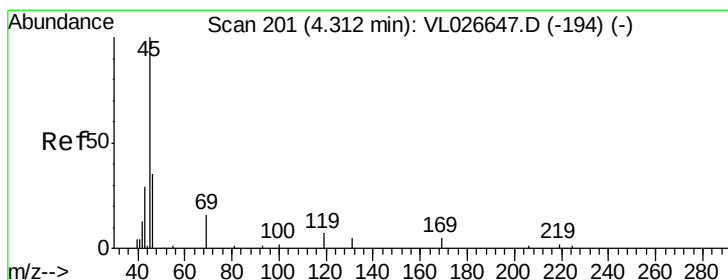
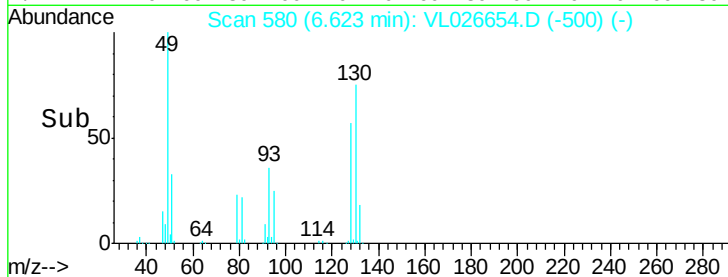
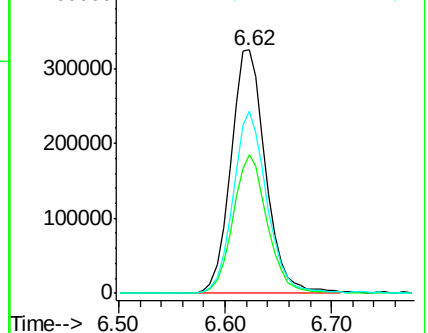
130 73.9 33.6 100.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#13

Ethanol

Concen: 0.22 ppbv

RT: 4.31 min Scan# 200

Delta R.T. -0.01 min

Lab File: VL026654.D

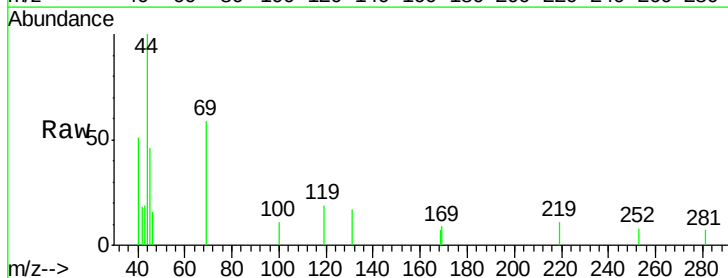
Acq: 8 Jan 2016 23:36

Tgt Ion: 45 Resp: 1474

Ion Ratio Lower Upper

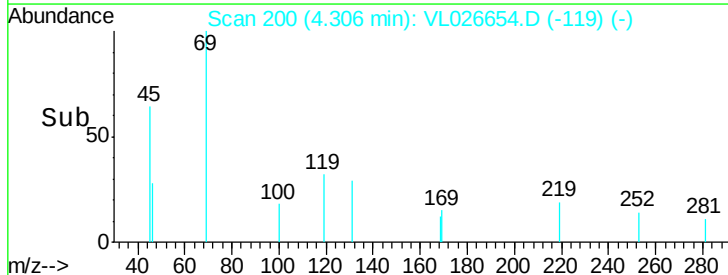
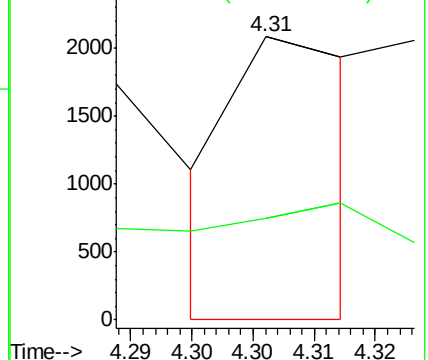
45 100

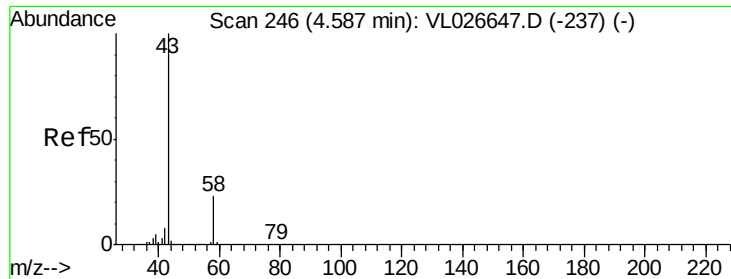
46 0.0 16.7 66.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.35 ppbv

RT: 4.59 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

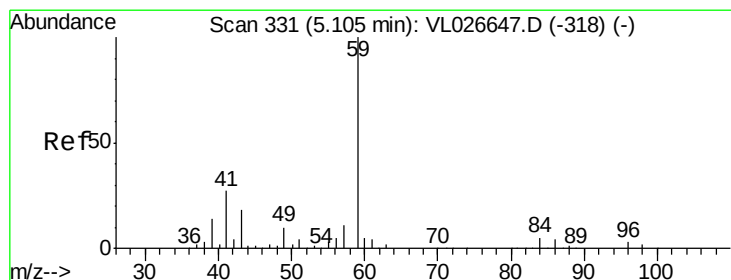
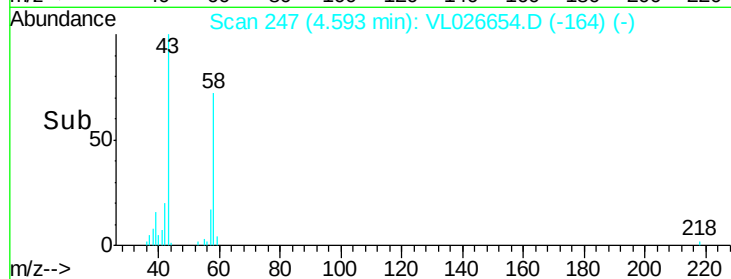
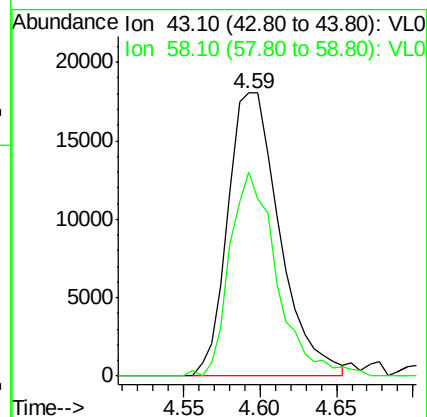
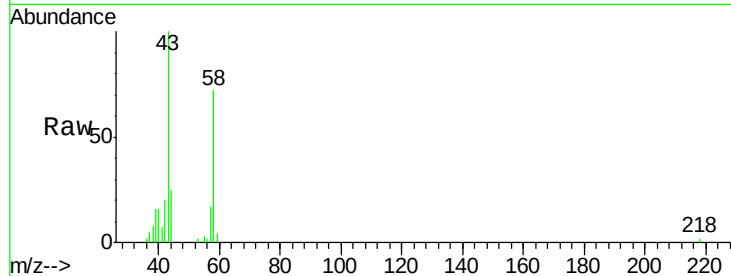
ClientSampleId :

Tot Ion: 43 Resp: 42623

Ion Ratio Lower Upper

43 100

58 65.1 19.2 28.8#



#17

tert-Butyl alcohol

Concen: 0.12 ppbv

RT: 5.11 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL026654.D

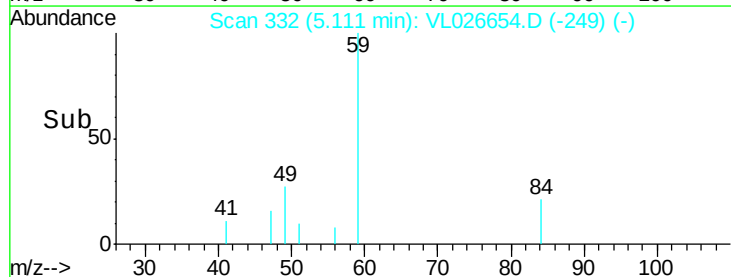
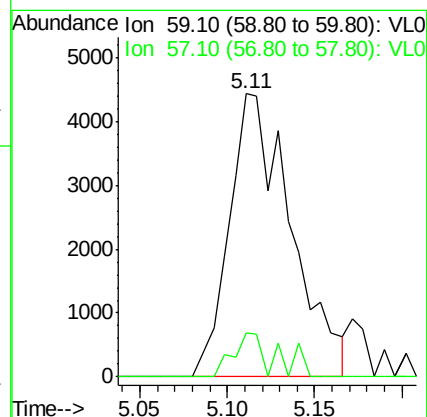
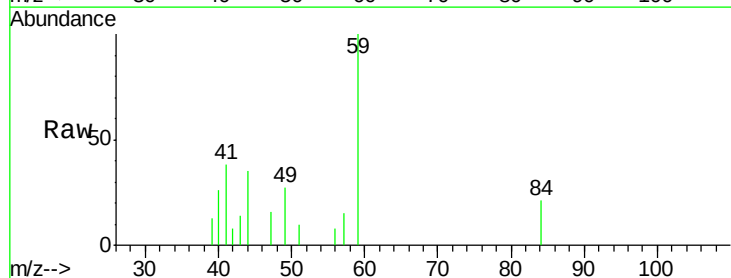
Acq: 8 Jan 2016 23:36

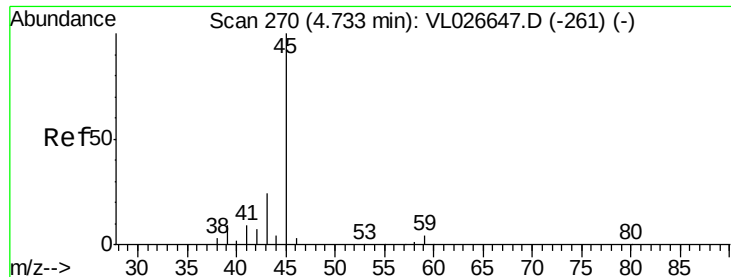
Tgt Ion: 59 Resp: 10874

Ion Ratio Lower Upper

59 100

57 10.3 9.0 13.6





#19

Isopropyl Alcohol

Concen: 0.16 ppbv

RT: 4.74 min Scan# 272

Delta R.T. 0.01 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

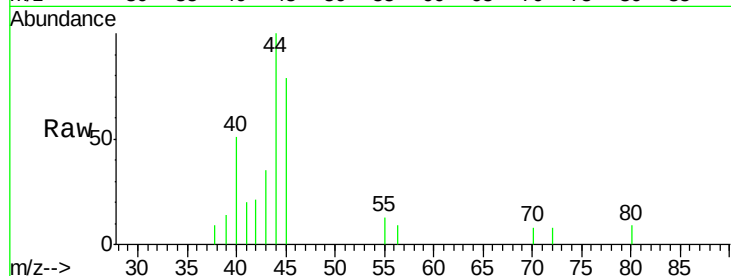
ClientSampleId :

Tot Ion: 45 Resp: 8289

Ion Ratio Lower Upper

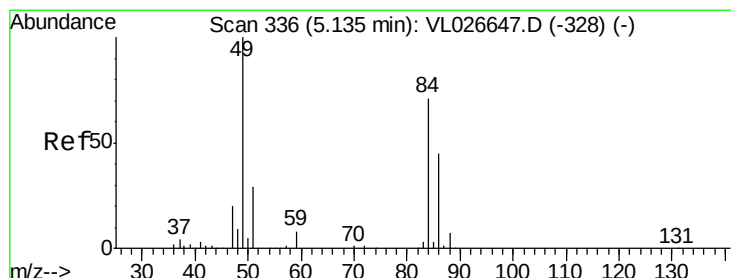
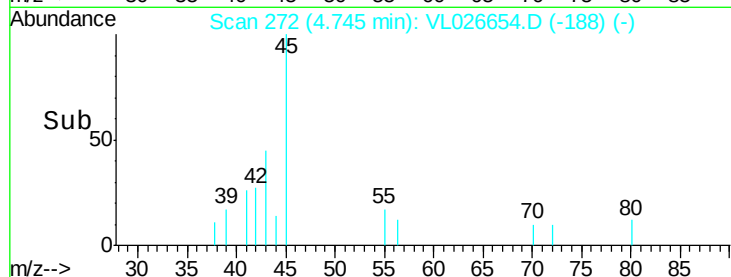
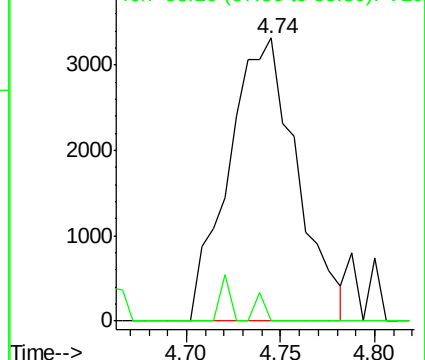
45 100

58 334.6 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.05 ppbv

RT: 5.12 min Scan# 334

Delta R.T. -0.01 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Tgt Ion: 84 Resp: 2609

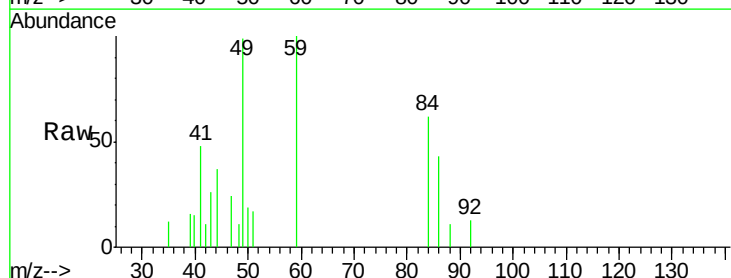
Ion Ratio Lower Upper

84 100

49 158.5 112.3 168.5

51 27.6 32.5 48.7#

86 69.2 50.3 75.5

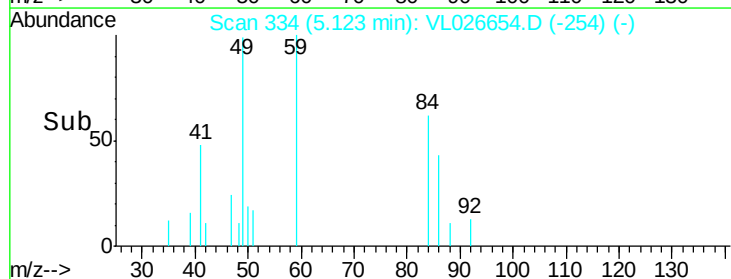
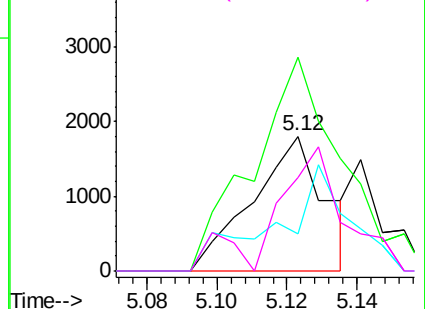


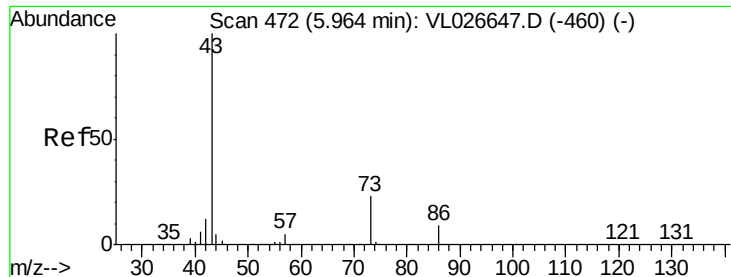
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#23

Vinyl Acetate

Concen: 0.03 ppbv

RT: 5.96 min Scan# 471

Delta R.T. -0.01 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 5987

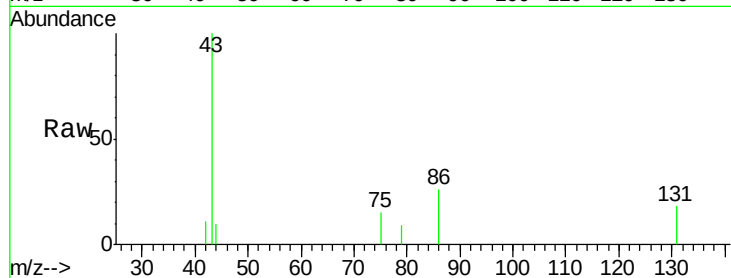
Ion Ratio Lower Upper

43 100

86 26.2 7.4 11.0#

42 10.6 9.2 13.8

44 0.0 3.8 5.8#

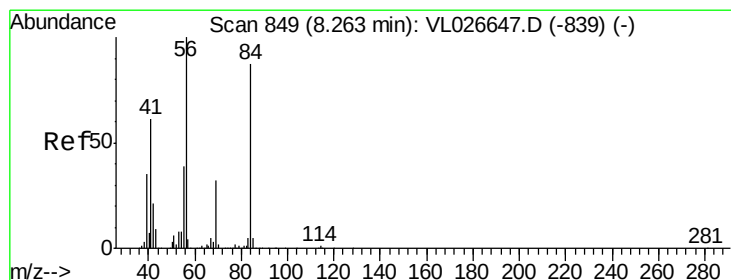
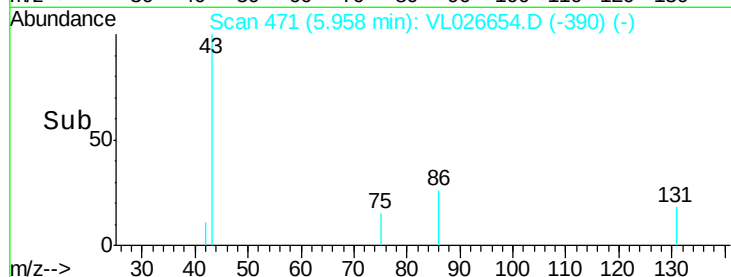
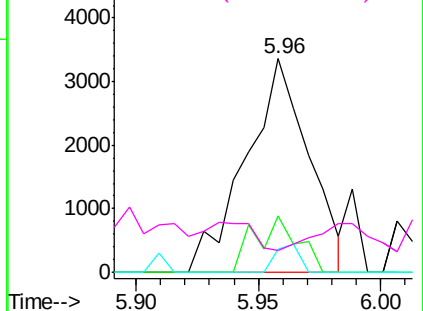


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#30

Cyclohexane

Concen: 0.04 ppbv

RT: 8.27 min Scan# 851

Delta R.T. 0.01 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

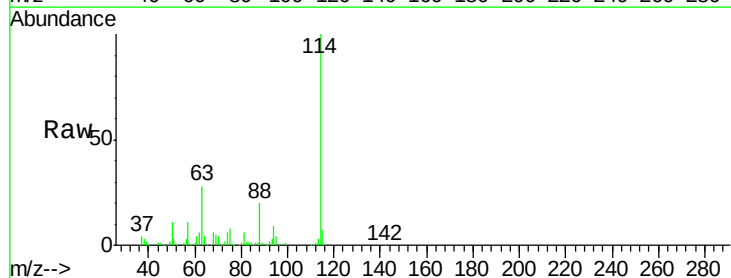
Tgt Ion: 84 Resp: 3686

Ion Ratio Lower Upper

84 100

56 0.0 95.9 143.9#

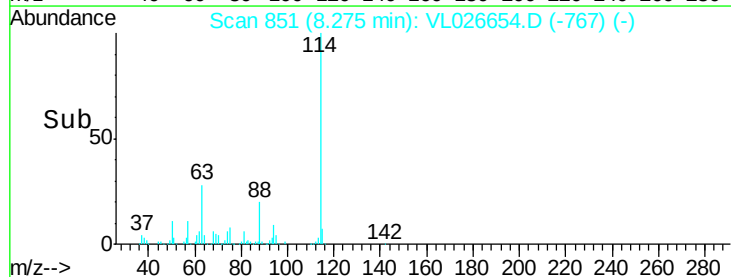
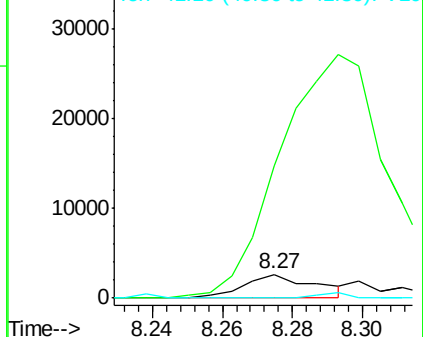
41 0.0 54.8 82.2#

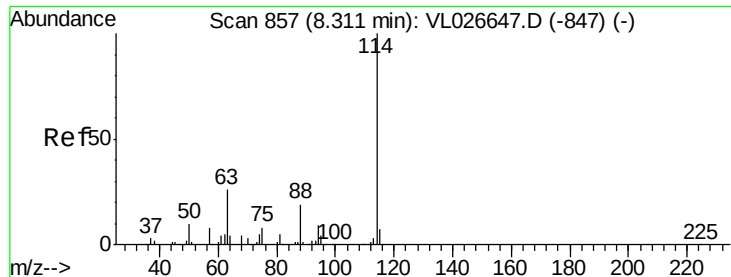


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

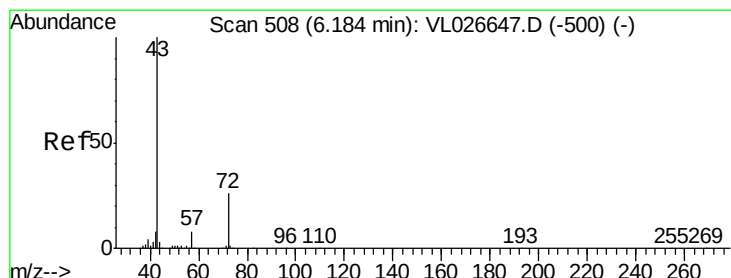
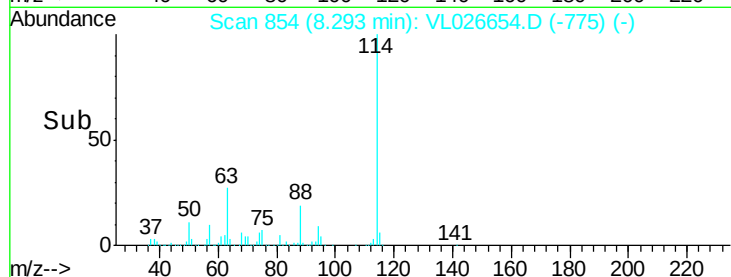
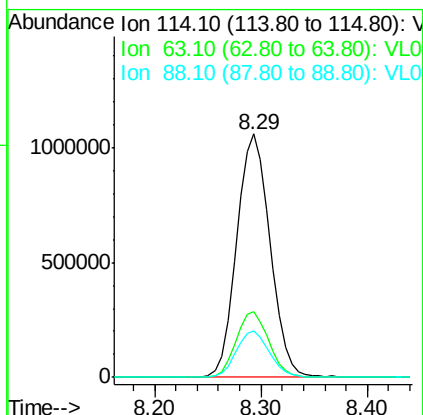
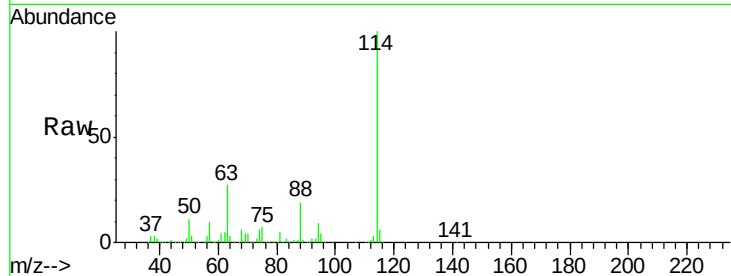




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.29 min Scan# 854
 Delta R.T. -0.02 min
 Lab File: VL026654.D
 Acq: 8 Jan 2016 23:36

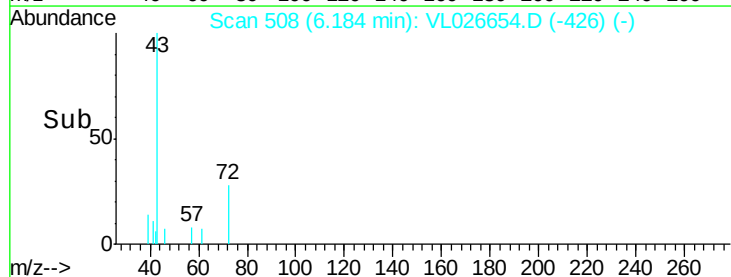
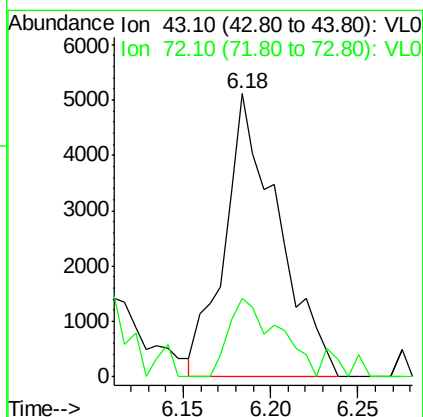
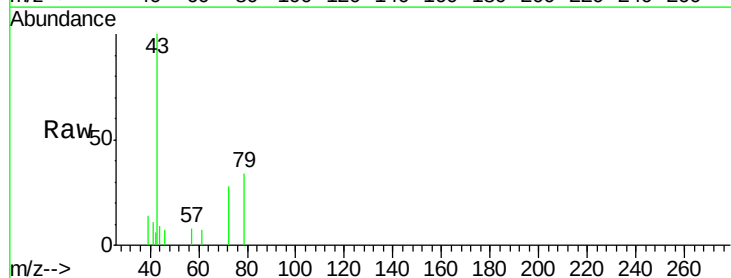
Instrument :
 MSVOA_L
 ClientSampleId :

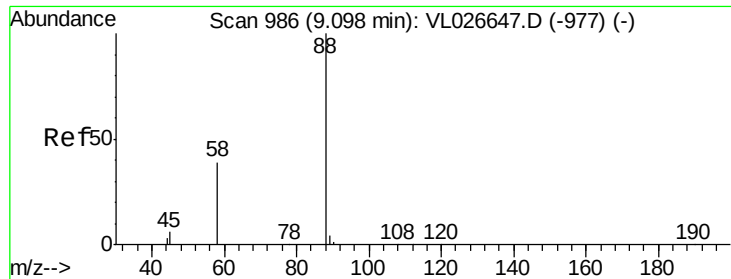
Tot Ion:114 Resp: 2344981
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.7 32.5
 88 18.9 15.2 22.8



#34
 2-Butanone
 Concen: 0.09 ppbv
 RT: 6.18 min Scan# 508
 Delta R.T. -0.00 min
 Lab File: VL026654.D
 Acq: 8 Jan 2016 23:36

Tgt Ion: 43 Resp: 10943
 Ion Ratio Lower Upper
 43 100
 72 29.6 20.9 31.3

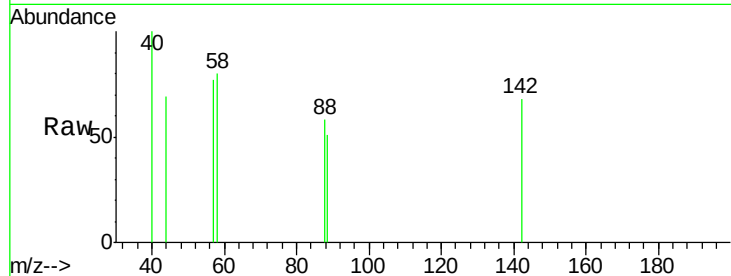




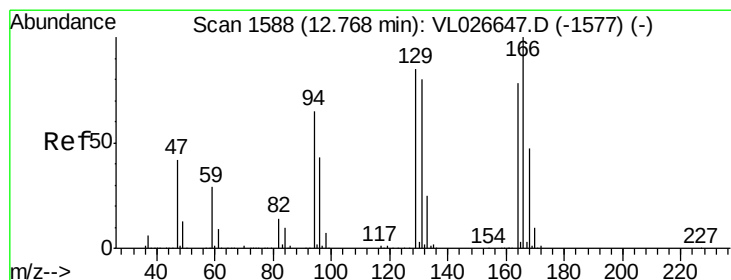
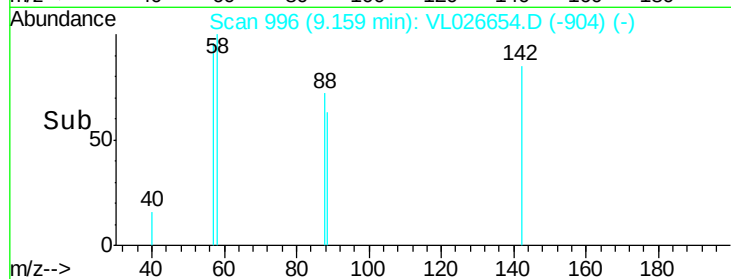
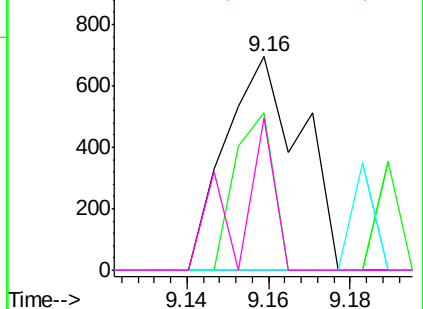
#40
1,4-Dioxane
Concen: 0.05 ppbv
RT: 9.16 min Scan# 996
Delta R.T. 0.06 min
Lab File: VL026654.D
Acq: 8 Jan 2016 23:36

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 88 Resp: 897
Ion Ratio Lower Upper
88 100
58 0.0 109.4 164.2#
43 225.2 238.2 357.2#
57 0.0 1148.3 1722.5#

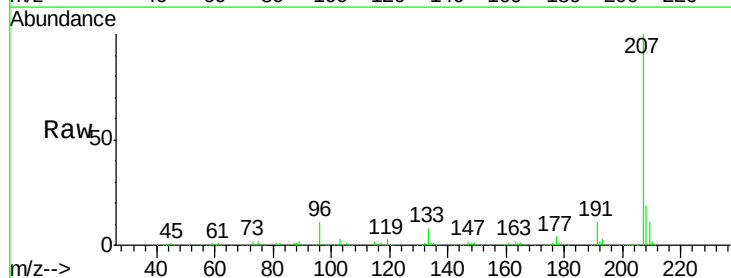


Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

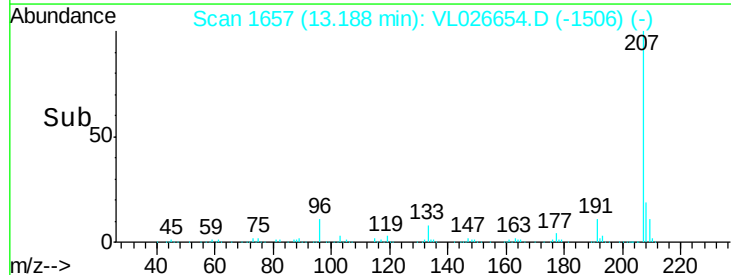
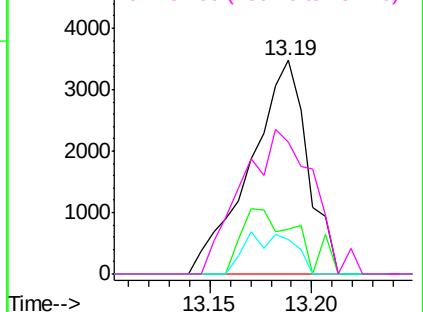


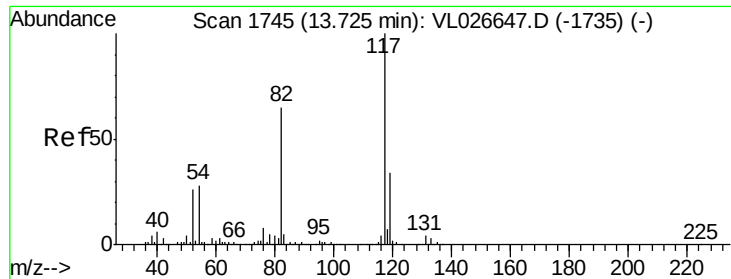
#52
Tetrachloroethene
Concen: 0.06 ppbv
RT: 13.19 min Scan# 1657
Delta R.T. 0.42 min
Lab File: VL026654.D
Acq: 8 Jan 2016 23:36

Tgt Ion:164 Resp: 6783
Ion Ratio Lower Upper
164 100
166 20.8 102.5 153.7#
129 16.3 87.0 130.6#
131 62.0 82.5 123.7#



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

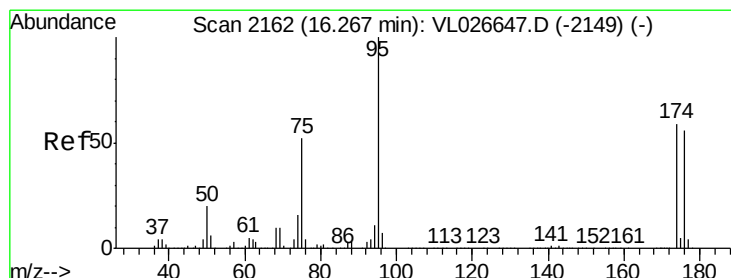
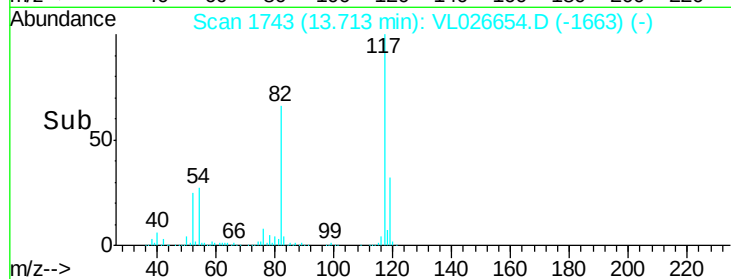
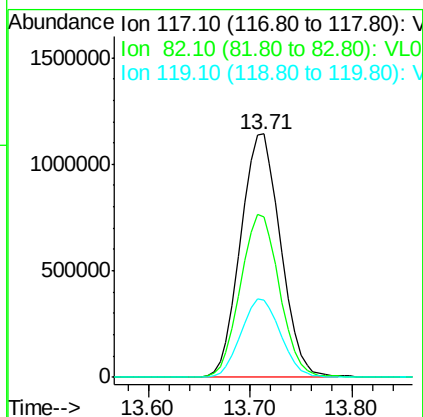
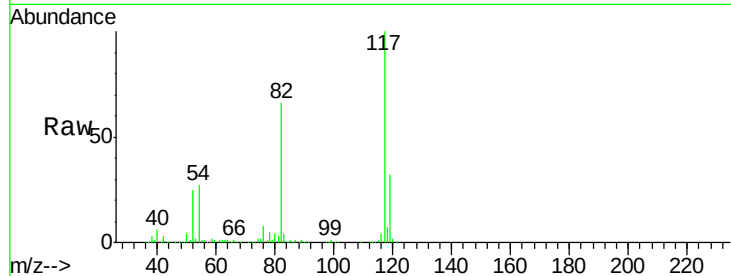




#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 13.71 min Scan# 1743
 Delta R.T. -0.01 min
 Lab File: VL026654.D
 Acq: 8 Jan 2016 23:36

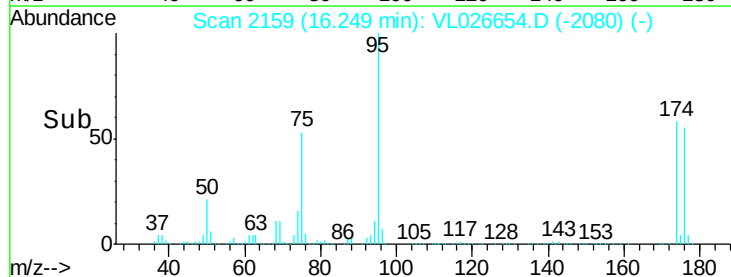
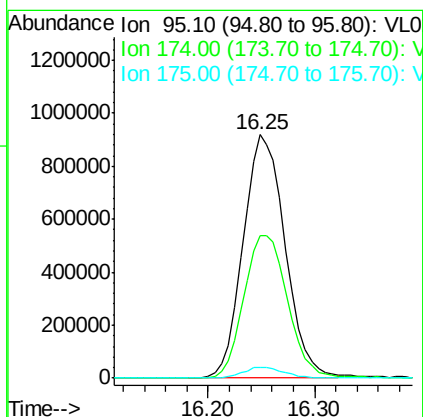
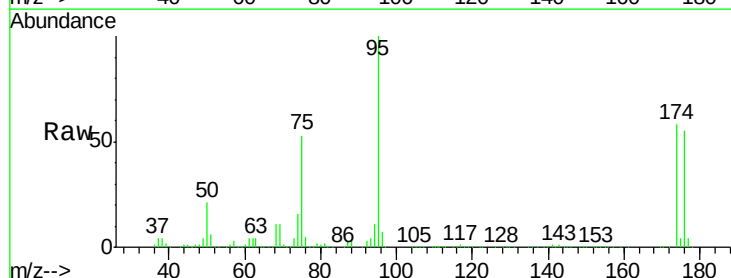
Instrument :
 MSVOA_L
 ClientSampleId :

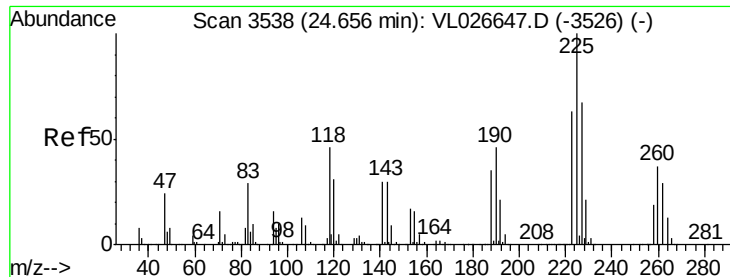
Tot Ion:117 Resp: 3117158
 Ion Ratio Lower Upper
 117 100
 82 66.2 49.7 74.5
 119 32.3 43.8 65.8#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.22 ppbv
 RT: 16.25 min Scan# 2159
 Delta R.T. -0.02 min
 Lab File: VL026654.D
 Acq: 8 Jan 2016 23:36

Tgt Ion: 95 Resp: 2539702
 Ion Ratio Lower Upper
 95 100
 174 61.9 47.8 71.8
 175 4.4 3.6 5.4

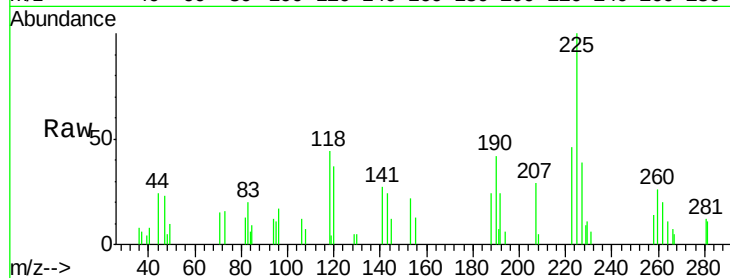




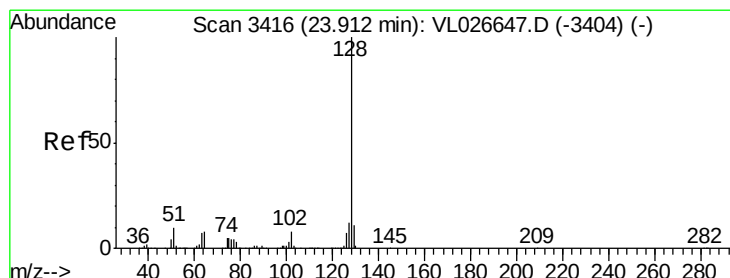
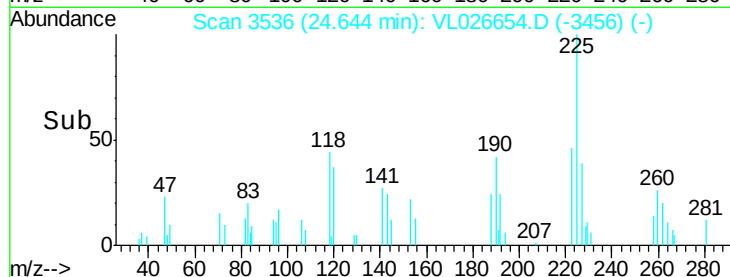
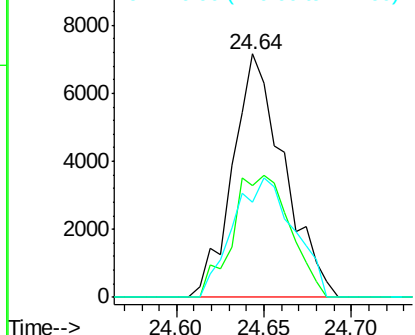
#78
Hexachloro-1,3-Butadiene
Concen: 0.10 ppbv
RT: 24.64 min Scan# 3536
Delta R.T. -0.01 min
Lab File: VL026654.D
Acq: 8 Jan 2016 23:36

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:225 Resp: 14657
Ion Ratio Lower Upper
225 100
223 56.5 50.1 75.1
227 58.1 51.1 76.7

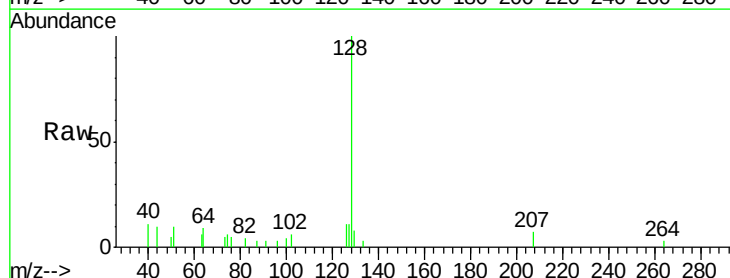


Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V

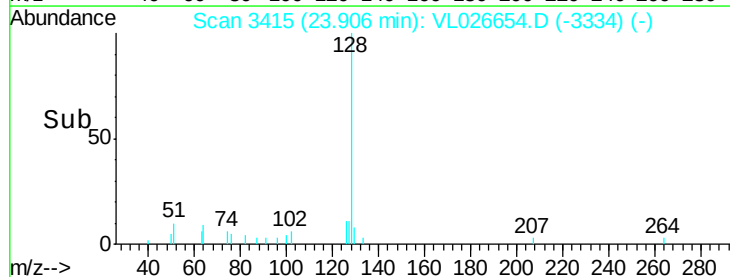
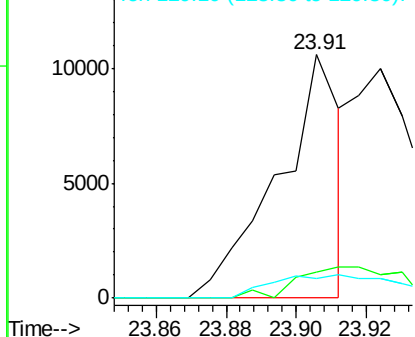


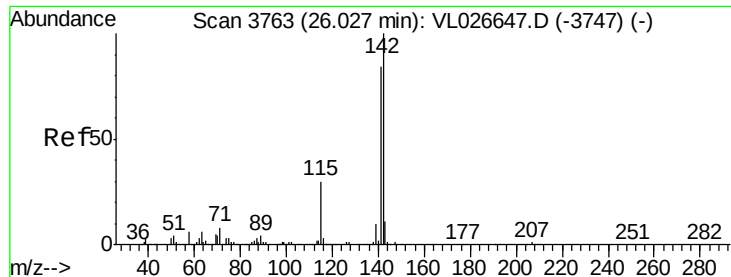
#79
Naphthalene
Concen: 0.04 ppbv
RT: 23.91 min Scan# 3415
Delta R.T. -0.01 min
Lab File: VL026654.D
Acq: 8 Jan 2016 23:36

Tgt Ion:128 Resp: 13216
Ion Ratio Lower Upper
128 100
127 10.6 9.8 14.8
129 8.3 8.9 13.3#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.13 ppbv

RT: 26.02 min Scan# 3761

Delta R.T. -0.01 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

Instrument :

MSVOA_L

ClientSampleId :

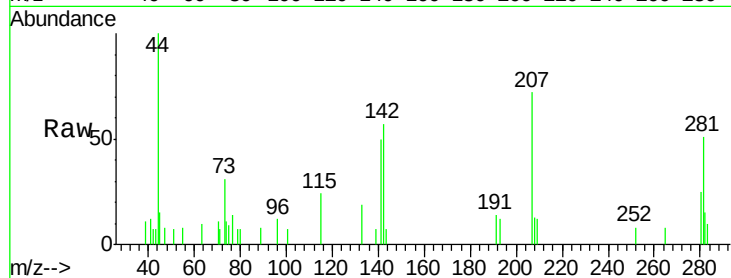
Tot Ion:142 Resp: 7890

Ion Ratio Lower Upper

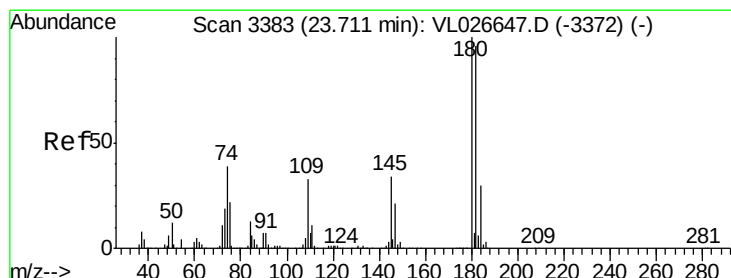
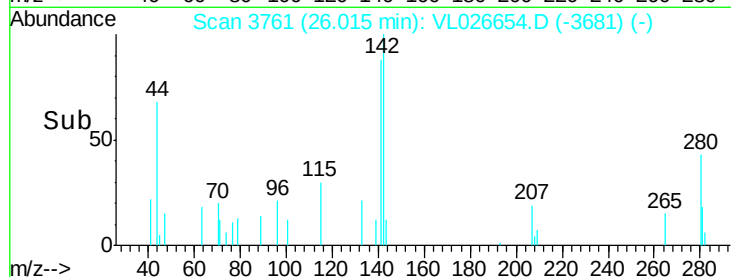
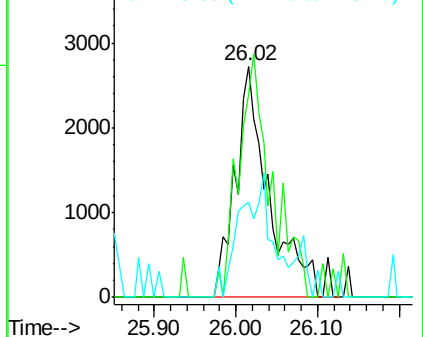
142 100

141 106.7 67.0 100.6#

115 61.0 24.7 37.1#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.08 ppbv

RT: 23.71 min Scan# 3383

Delta R.T. -0.00 min

Lab File: VL026654.D

Acq: 8 Jan 2016 23:36

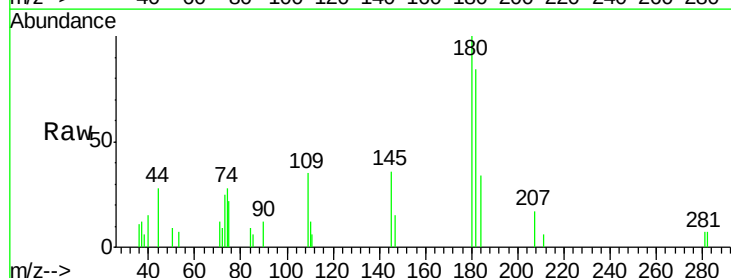
Tgt Ion:180 Resp: 13252

Ion Ratio Lower Upper

180 100

182 94.2 75.4 113.0

184 34.1 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V

