

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
 Data File : VL026850.D
 Acq On : 10 Feb 2016 13:03
 Operator : SY/AP
 Sample : H1388-01DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1DL

Quant Time: Feb 11 03:04:34 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 03:14:04 2016
 QLast Update : Wed Feb 10 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	1713116	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.36	114	5125650	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.79	117	4994149	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	3557634	9.92	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

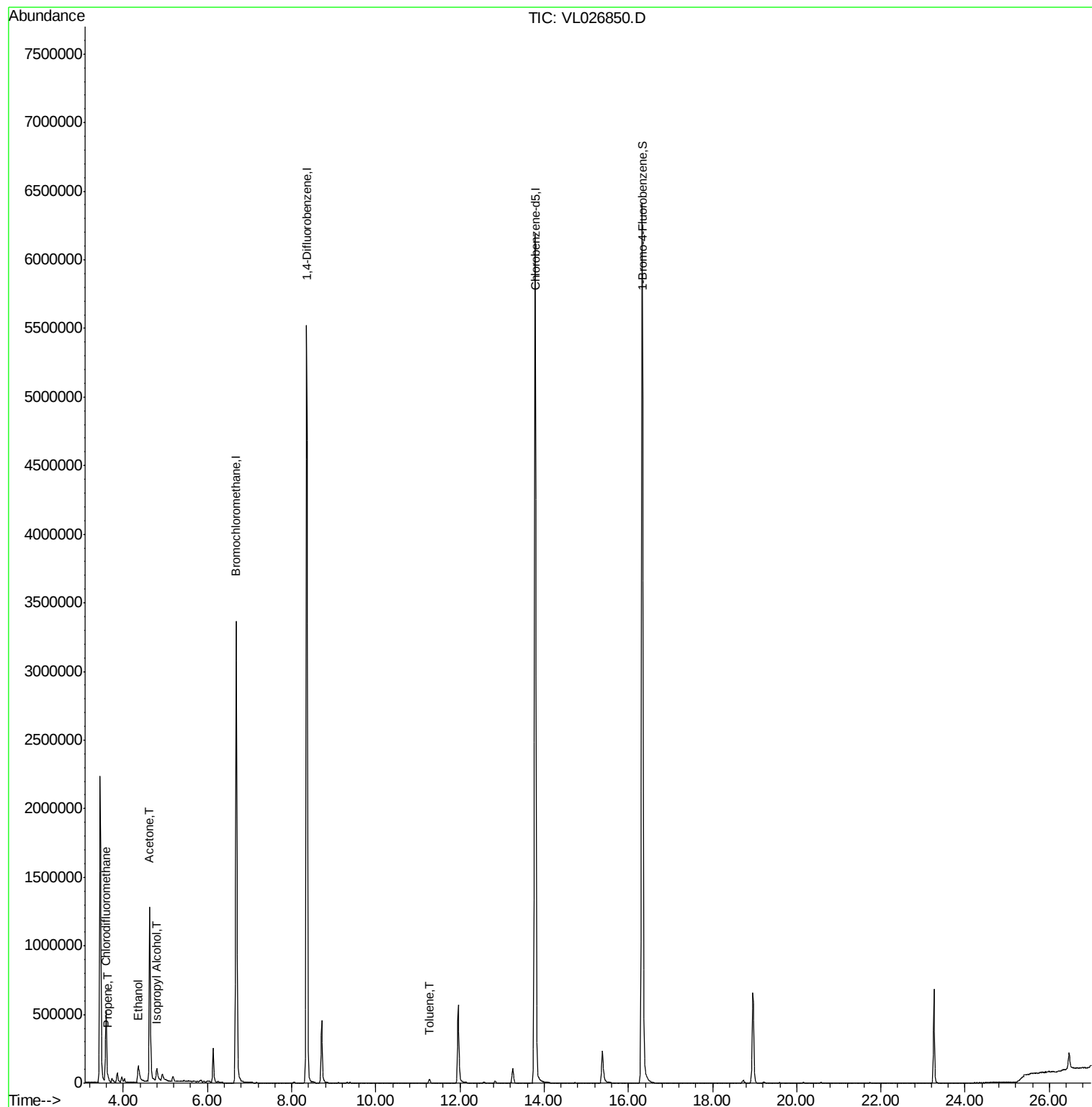
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.59	51	647156	2.33	ppbv	97
9) Propene	3.63	41	12112	0.16	ppbv #	83
13) Ethanol	4.35	45	209373	16.21	ppbv	99
15) Acetone	4.62	43	1786551	7.59	ppbv	97
19) Isopropyl Alcohol	4.79	45	136625	1.63	ppbv #	92
53) Toluene	11.27	91	30266	0.07	ppbv	98

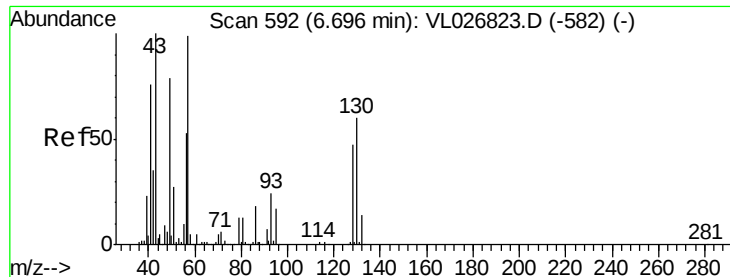
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. -0.01 min

Lab File: VL026850.D

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Instrument :

MSVOA_L

ClientSampleId :

IAS-1DL

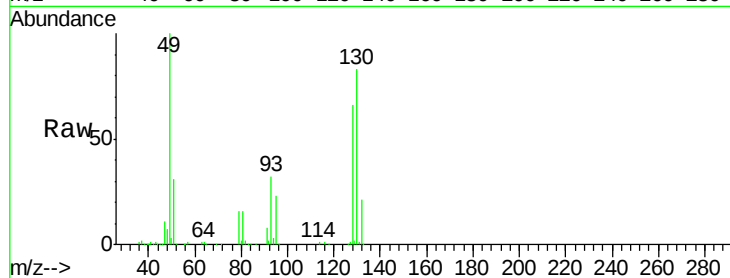
Tot Ion: 49 Resp: 1713116

Ion Ratio Lower Upper

49 100

128 65.7 29.7 89.1

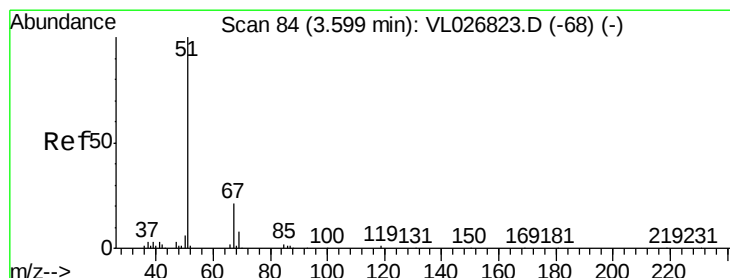
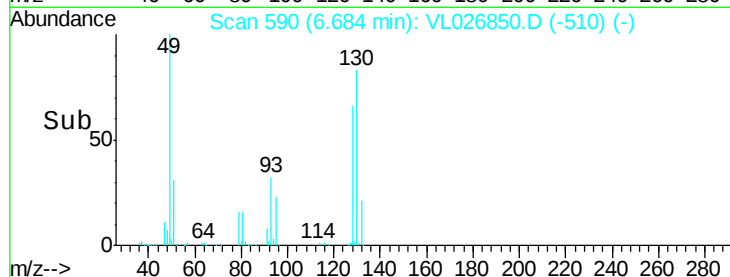
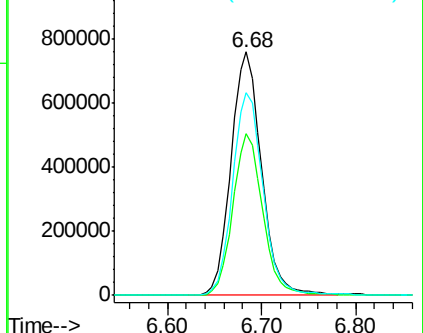
130 84.1 38.3 114.8



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



#3

Chlorodifluoromethane

Concen: 2.33 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026850.D

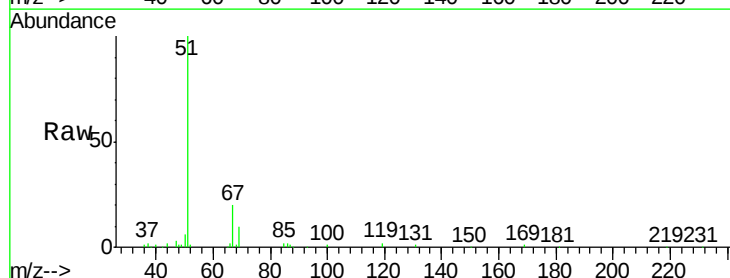
Acq: 10 Feb 2016 13:03

Tgt Ion: 51 Resp: 647156

Ion Ratio Lower Upper

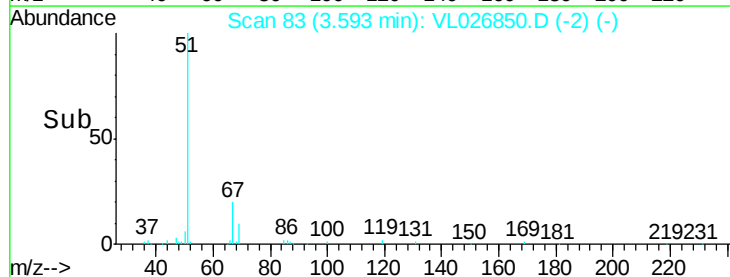
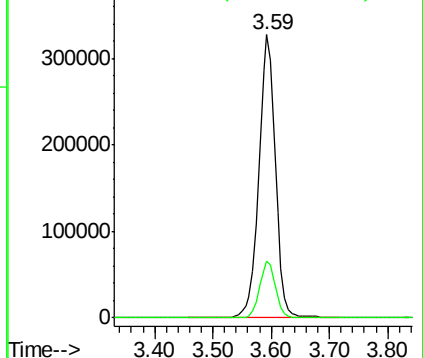
51 100

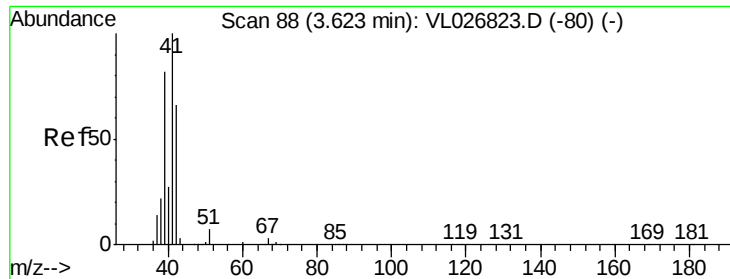
67 19.1 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.16 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL026850.D

Acq: 10 Feb 2016 13:03

Instrument :

MSVOA_L

ClientSampleId :

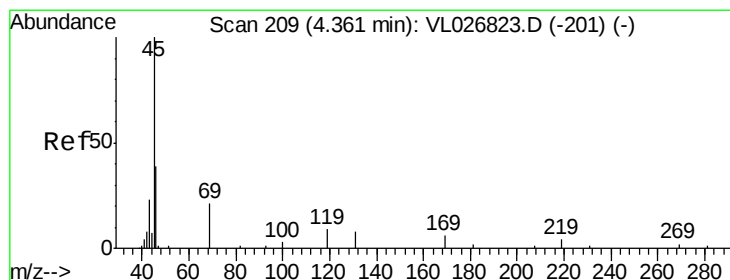
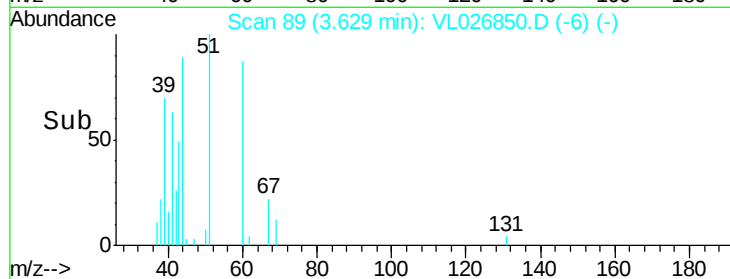
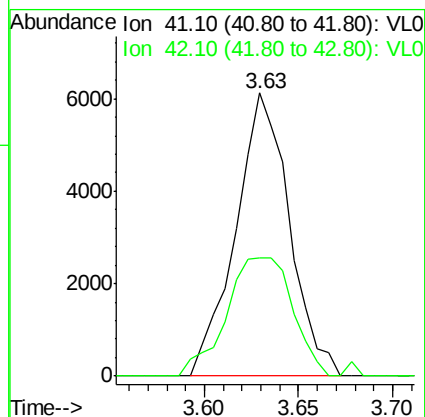
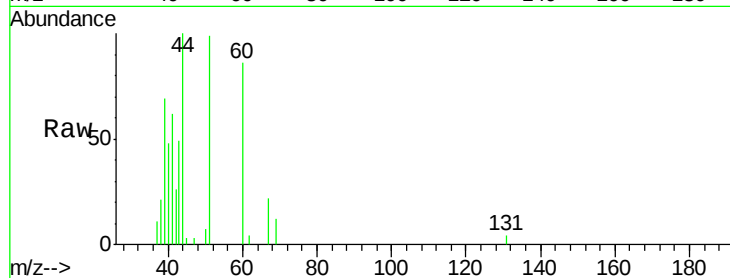
IAS-1DL

Tot Ion: 41 Resp: 12112

Ion Ratio Lower Upper

41 100

42 52.5 52.8 79.2#



#13

Ethanol

Concen: 16.21 ppbv

RT: 4.35 min Scan# 208

Delta R.T. -0.01 min

Lab File: VL026850.D

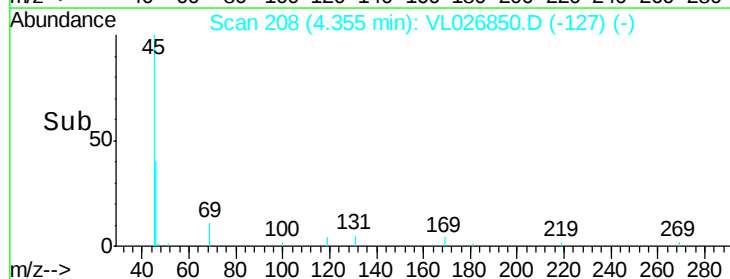
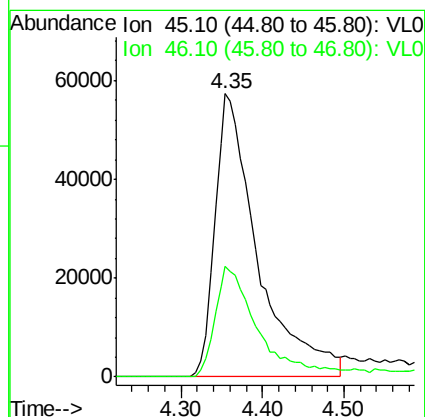
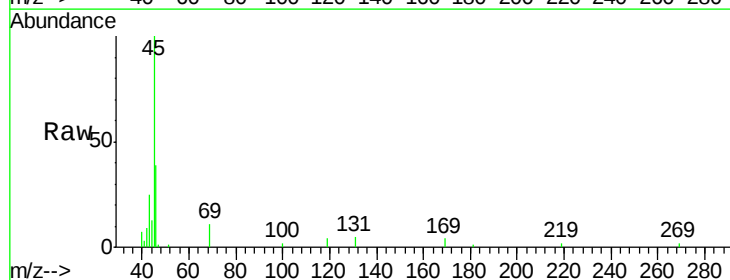
Acq: 10 Feb 2016 13:03

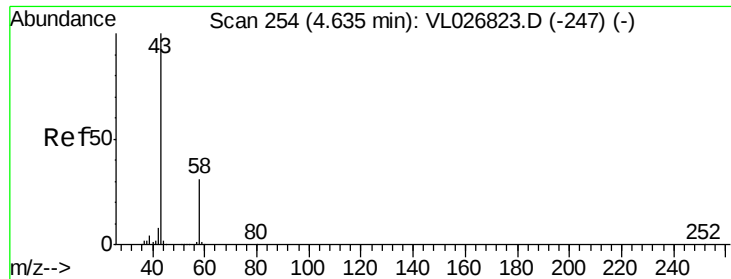
Tgt Ion: 45 Resp: 209373

Ion Ratio Lower Upper

45 100

46 40.4 15.8 63.4





#15

Acetone

Concen: 7.59 ppbv

RT: 4.62 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL026850.D

Acq: 10 Feb 2016 13:03

Instrument :

MSVOA_L

ClientSampleId :

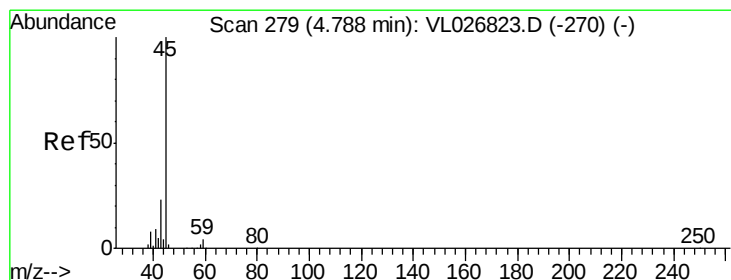
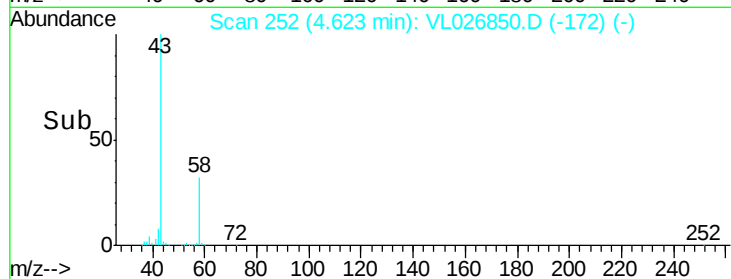
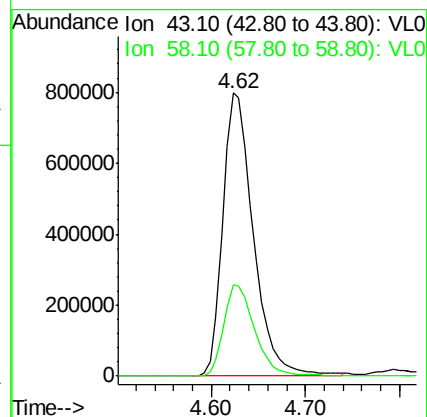
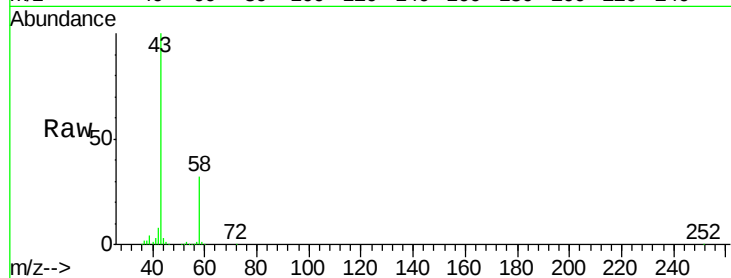
IAS-1DL

Tot Ion: 43 Resp: 1786551

Ion Ratio Lower Upper

43 100

58 33.0 25.2 37.8



#19

Isopropyl Alcohol

Concen: 1.63 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.01 min

Lab File: VL026850.D

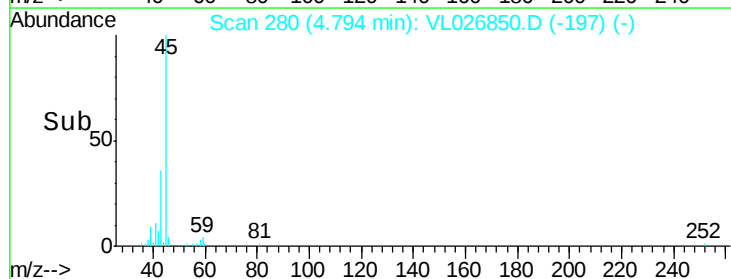
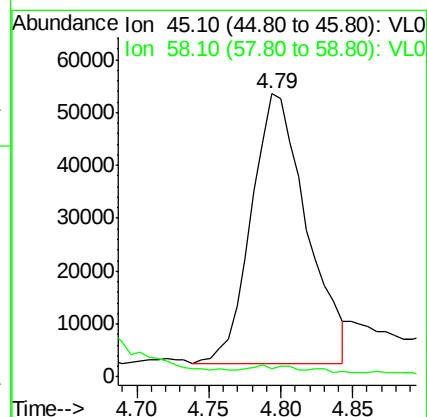
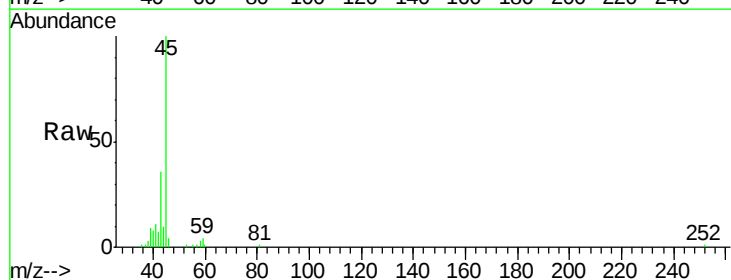
Acq: 10 Feb 2016 13:03

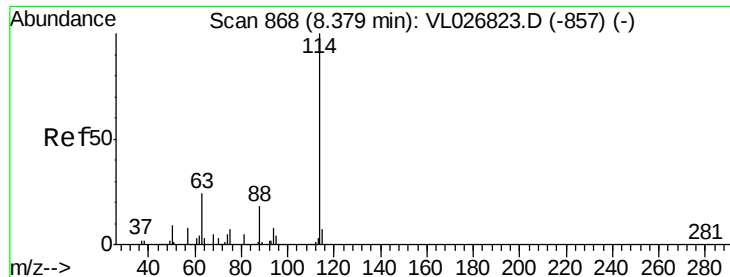
Tgt Ion: 45 Resp: 136625

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.2#

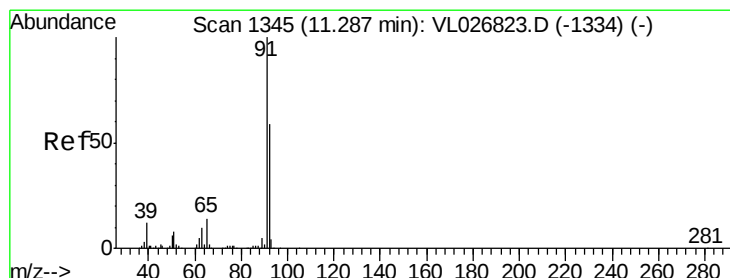
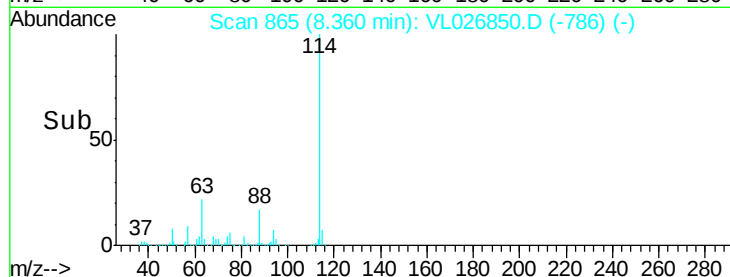
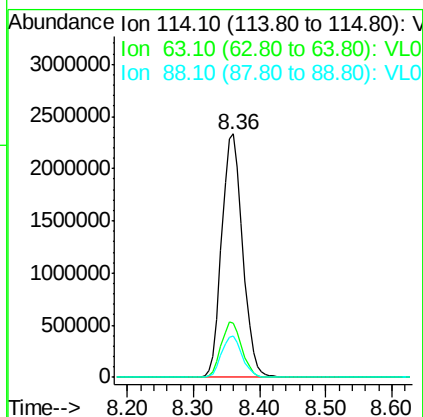
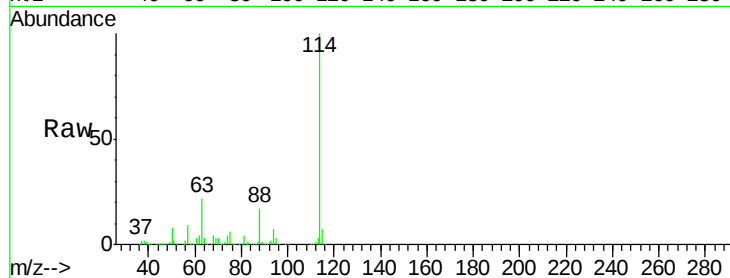




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.36 min Scan# 865
 Delta R.T. -0.02 min
 Lab File: VL026850.D
 Acq: 10 Feb 2016 13:03

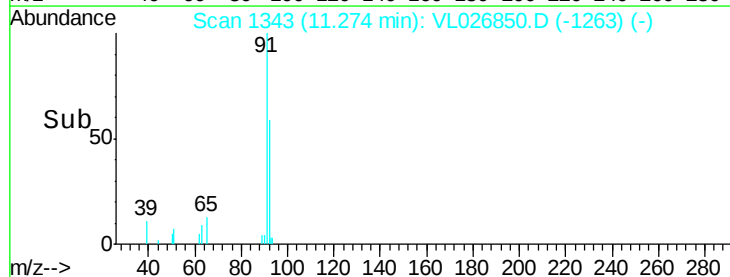
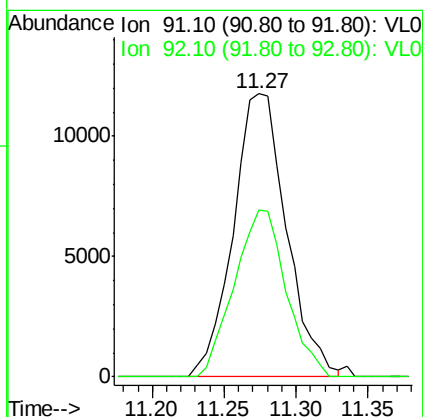
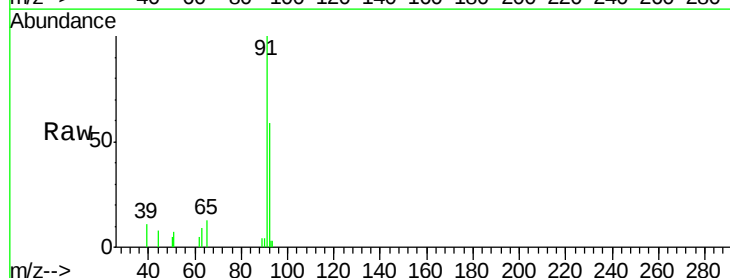
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 ClientSampleId :
 IAS-1DL

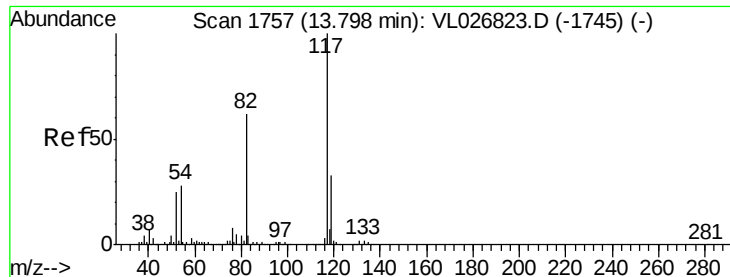
Tot Ion:114 Resp: 5125650
 Ion Ratio Lower Upper
 114 100
 63 22.3 19.7 29.5
 88 16.6 13.8 20.6



#53
 Toluene
 Concen: 0.07 ppbv
 RT: 11.27 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: VL026850.D
 Acq: 10 Feb 2016 13:03

Tgt Ion: 91 Resp: 30266
 Ion Ratio Lower Upper
 91 100
 92 57.3 47.3 70.9

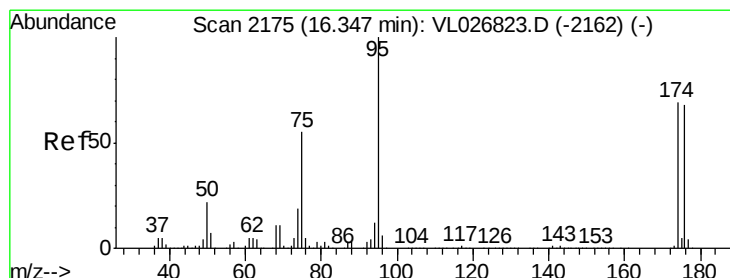
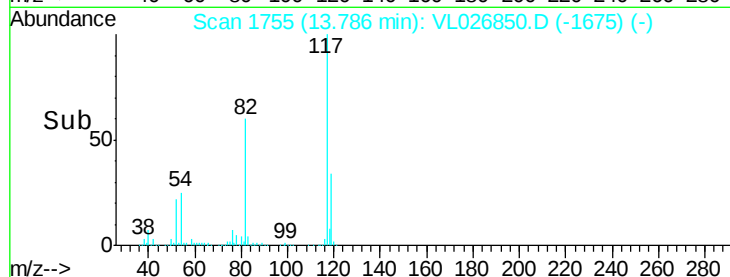
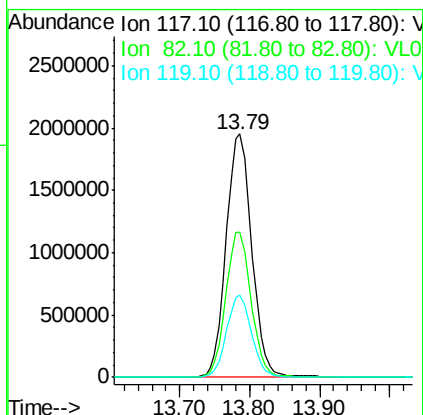
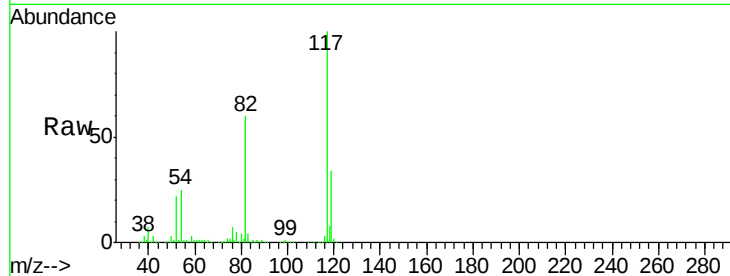




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. -0.01 min
Lab File: VL026850.D
Acq: 10 Feb 2016 13:03

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DL

Tot Ion:117 Resp: 4994149
Ion Ratio Lower Upper
117 100
82 59.6 51.9 77.9
119 33.1 48.5 72.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.92 ppbv
RT: 16.33 min Scan# 2172
Delta R.T. -0.02 min
Lab File: VL026850.D
Acq: 10 Feb 2016 13:03

Tgt Ion: 95 Resp: 3557634
Ion Ratio Lower Upper
95 100
174 75.1 55.6 83.4
175 5.3 3.9 5.9

