

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 10 13:38:26 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%

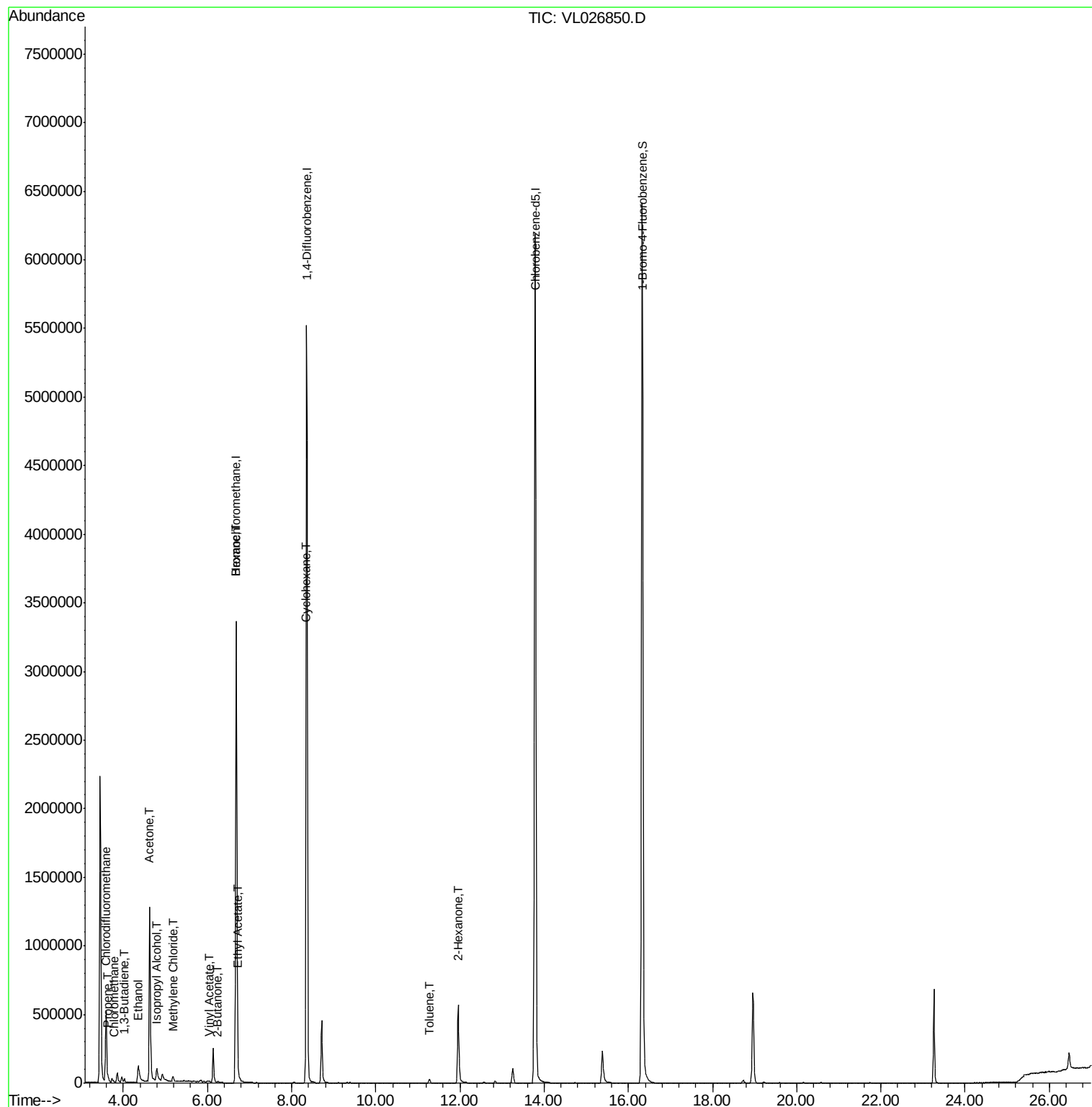
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.59	51	647156	2.33	ppbv	97
4) Chloromethane	3.78	50	3609	0.03	ppbv	93
9) Propene	3.63	41	12112	0.16	ppbv #	83
13) Ethanol	4.35	45	209373	16.21	ppbv	99
15) Acetone	4.62	43	1786551	7.59	ppbv	97
16) 1,3-Butadiene	4.03	39	3532	0.04	ppbv #	15
19) Isopropyl Alcohol	4.79	45	136625	1.63	ppbv #	92
20) Methylene Chloride	5.18	84	20840	0.17	ppbv #	85
23) Vinyl Acetate	6.03	43	11383	0.04	ppbv #	81
25) Ethyl Acetate	6.72	43	29828	0.08	ppbv	96
26) Hexane	6.69	57	11749	0.06	ppbv #	61
30) Cyclohexane	8.34	84	12503	0.08	ppbv #	1
34) 2-Butanone	6.25	43	10419	0.04	ppbv #	73
51) 2-Hexanone	11.95	43	132250	0.53	ppbv #	50
53) Toluene	11.27	91	30266	0.07	ppbv	98

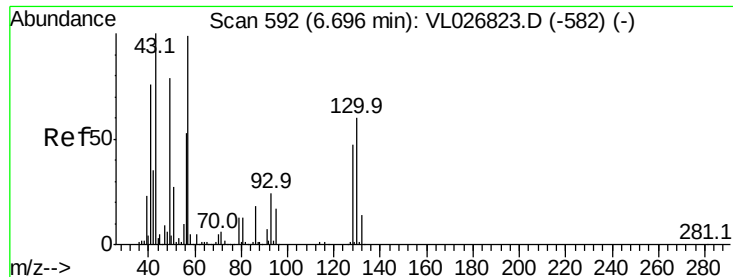
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 10 13:38:26 2016
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 03:14:04 2016
QLast Update : Wed Feb 10 03:14:04 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. -0.01 min

Lab File: VL026850.D

Acq: 10 Feb 2016 13:03

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DL

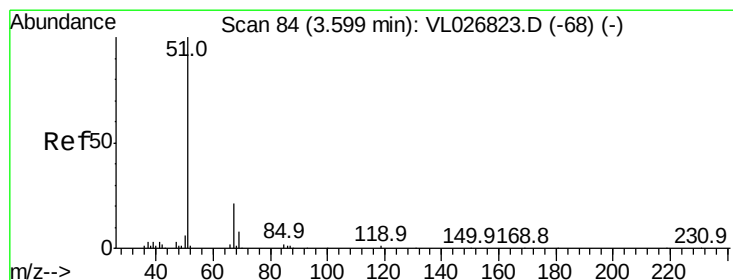
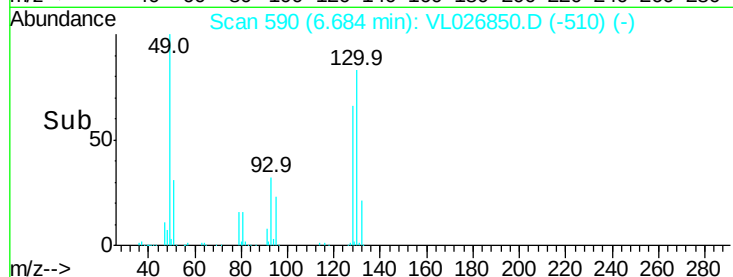
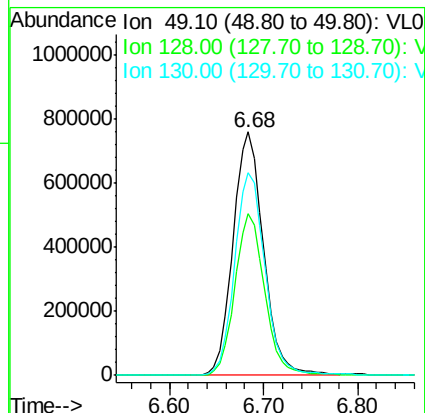
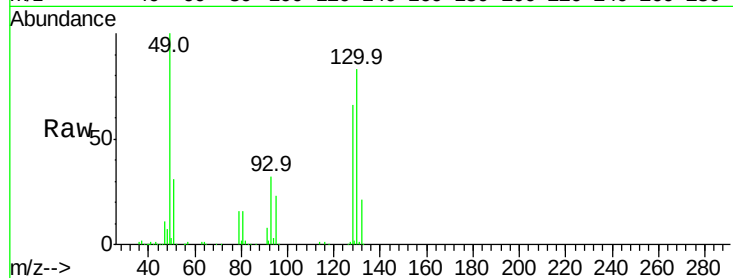
Tgt Ion: 49 Resp: 1713116

Ion Ratio Lower Upper

49 100

128 65.7 29.7 89.1

130 84.1 38.3 114.8



#3

Chlorodifluoromethane

Concen: 2.33 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026850.D

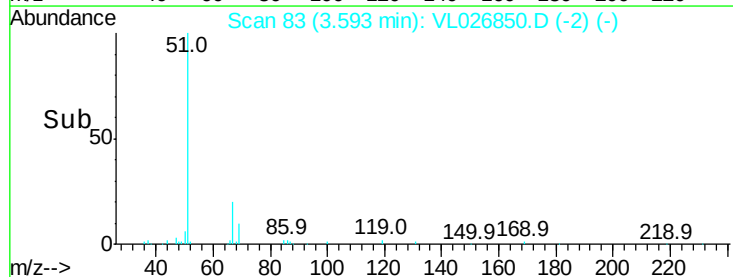
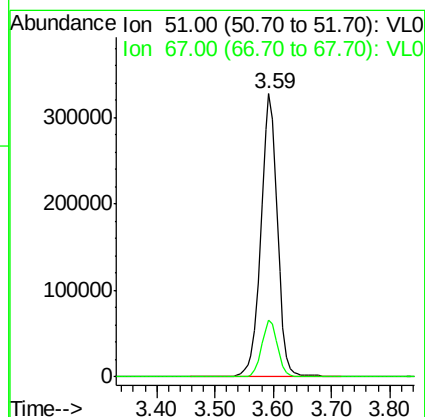
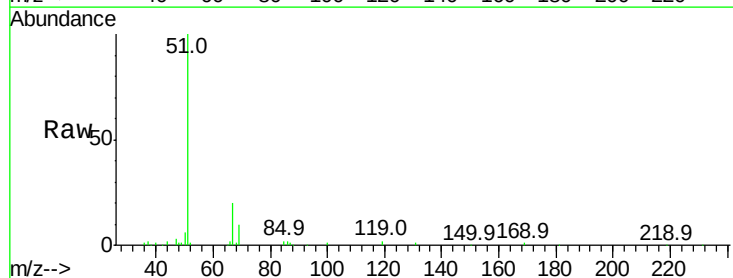
Acq: 10 Feb 2016 13:03

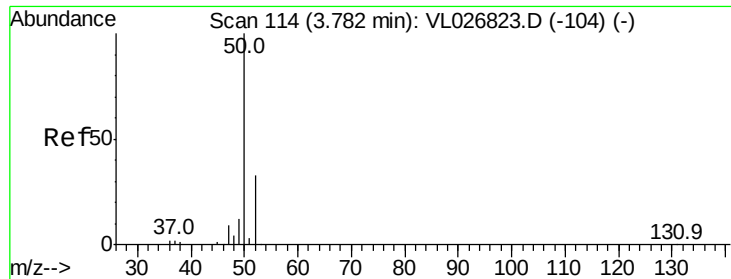
Tgt Ion: 51 Resp: 647156

Ion Ratio Lower Upper

51 100

67 19.1 16.4 24.6





#4

Chloromethane

Concen: 0.03 ppbv

RT: 3.78 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL026850.D

Acq: 10 Feb 2016 13:03

Instrument :

MSVOA_L

ClientSampleId :

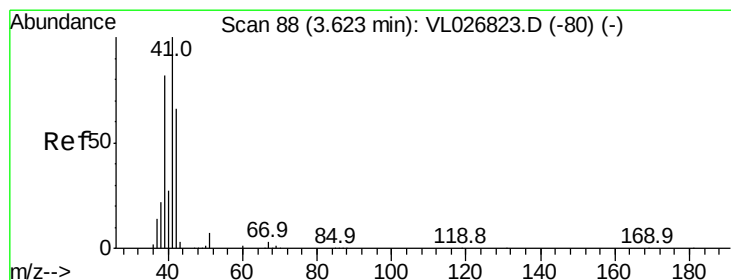
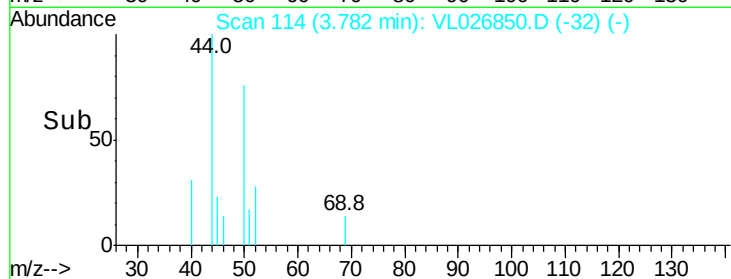
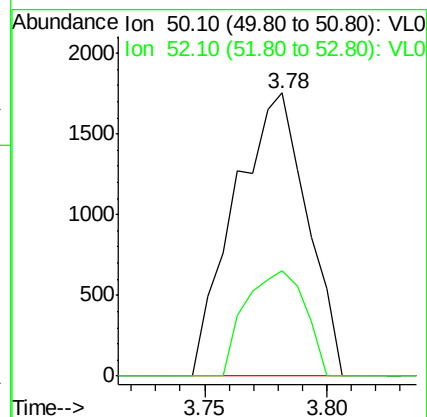
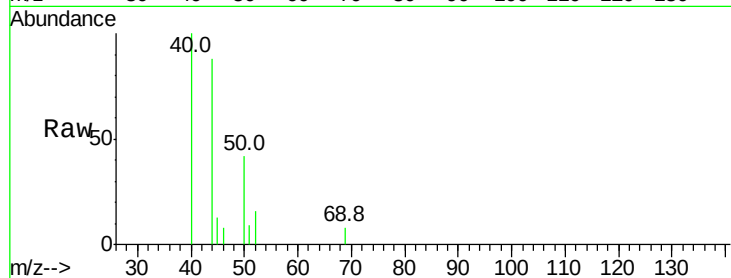
IAS-1DL

Tgt Ion: 50 Resp: 3609

Ion Ratio Lower Upper

50 100

52 37.1 26.3 39.5



#9

Propene

Concen: 0.16 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL026850.D

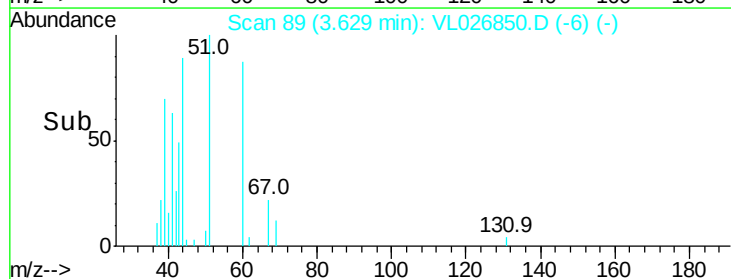
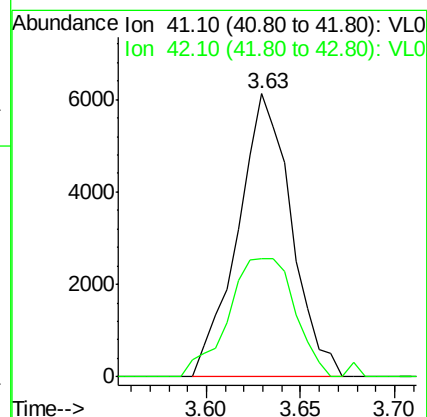
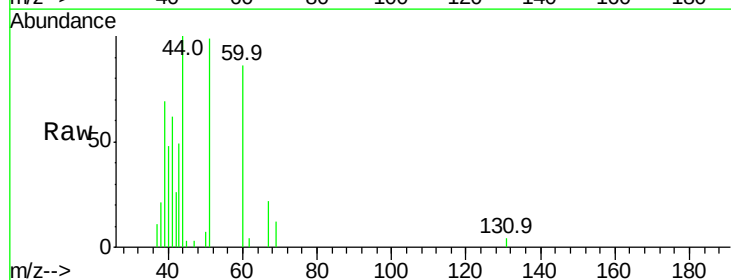
Acq: 10 Feb 2016 13:03

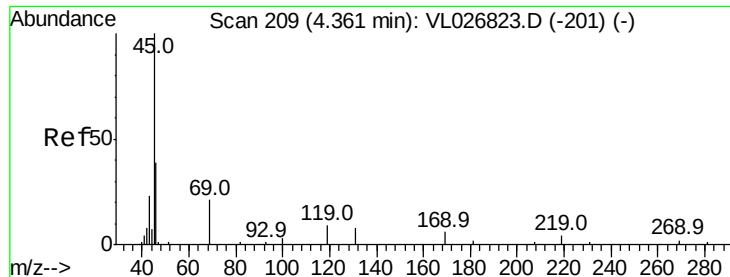
Tgt Ion: 41 Resp: 12112

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

Instrument :

MSVOA_L

ClientSampleId :

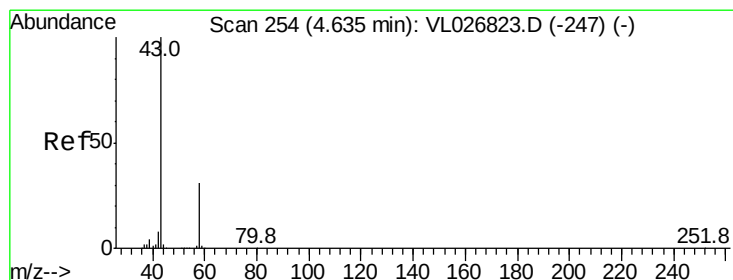
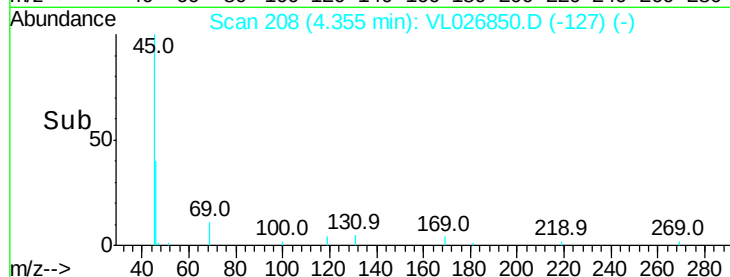
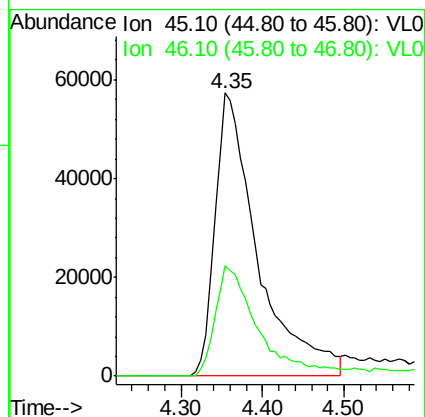
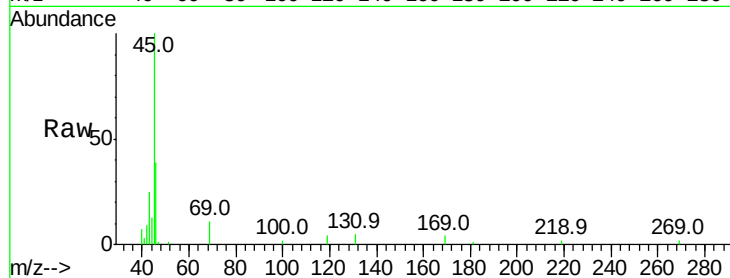
IAS-1DL

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

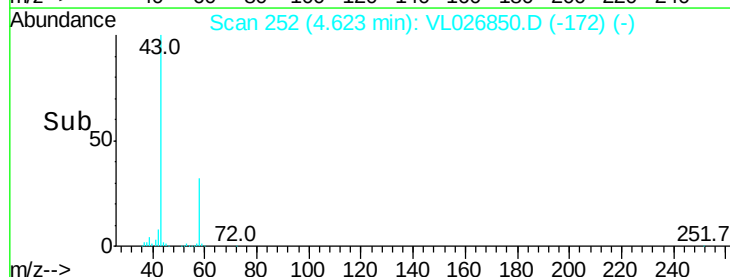
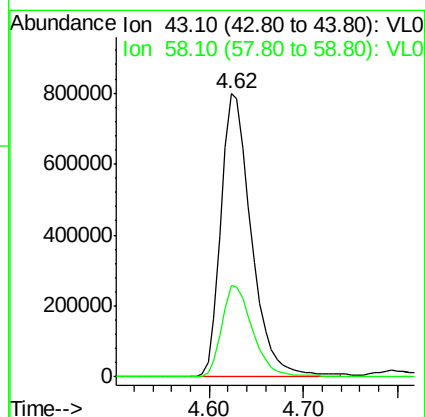
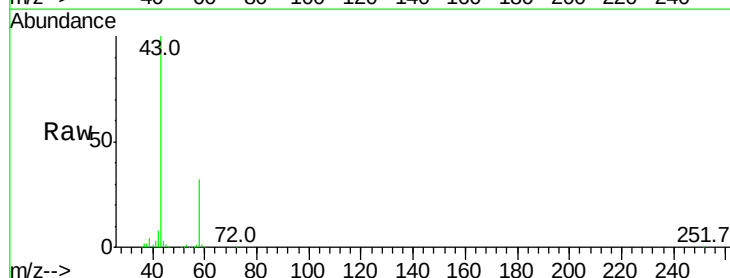
Acq: 10 Feb 2016 13:03

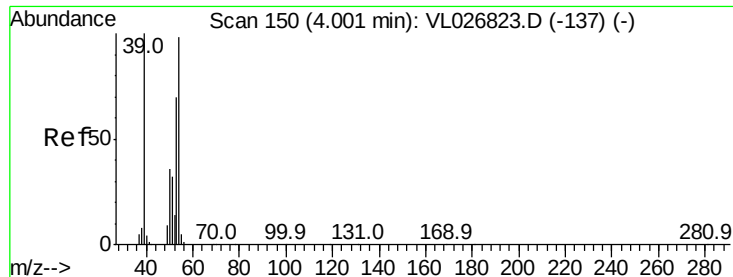
Tgt Ion: 43 Resp: 1786551

Ion Ratio Lower Upper

43 100

58 33.0 25.2 37.8





#16

1,3-Butadiene

Concen: 0.04 ppbv

RT: 4.03 min Scan# 154

Delta R.T. 0.02 min

Lab File: VL026850.D

Acq: 10 Feb 2016 13:03

Instrument :

MSVOA_L

ClientSampleId :

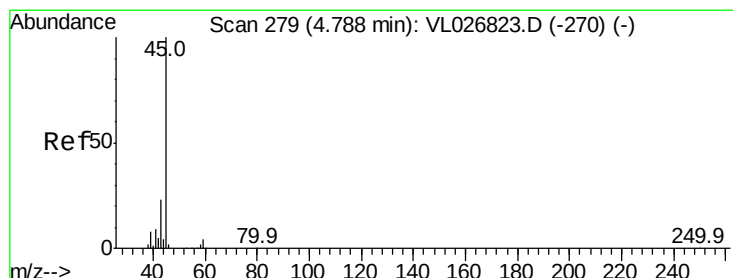
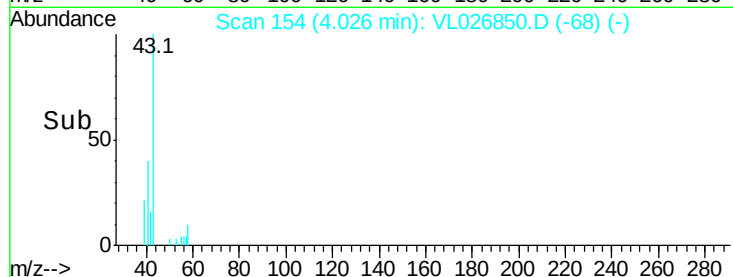
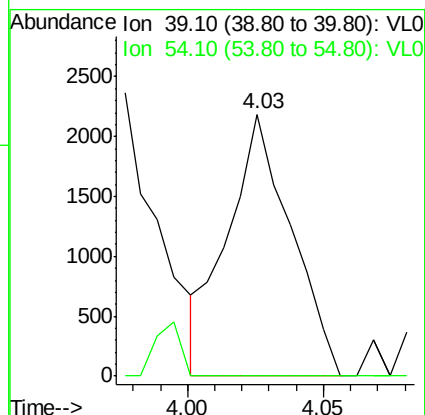
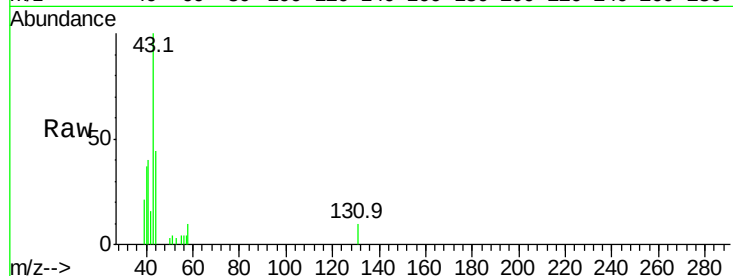
IAS-1DL

Tgt Ion: 39 Resp: 3532

Ion Ratio Lower Upper

39 100

54 11.7 74.7 112.1#



#19

Isopropyl Alcohol

Concen: 1.63 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.01 min

Lab File: VL026850.D

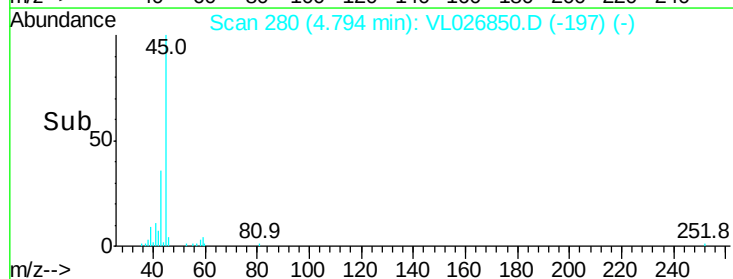
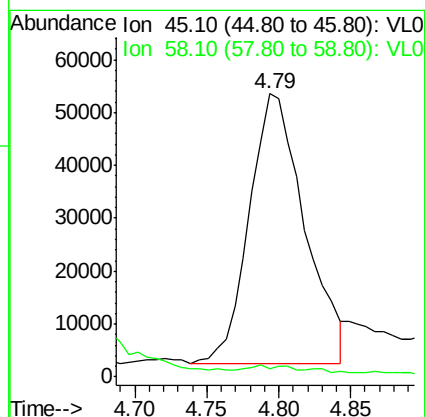
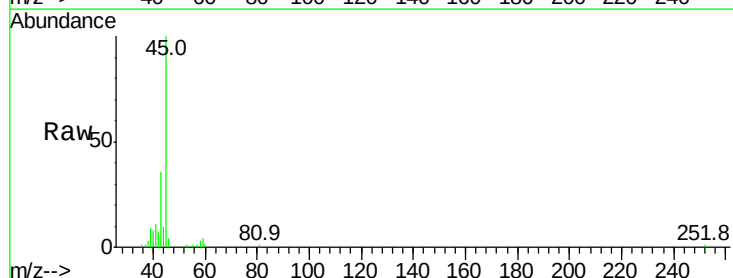
Acq: 10 Feb 2016 13:03

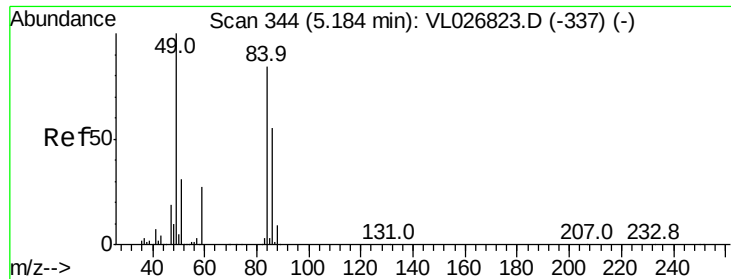
Tgt Ion: 45 Resp: 136625

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.2#

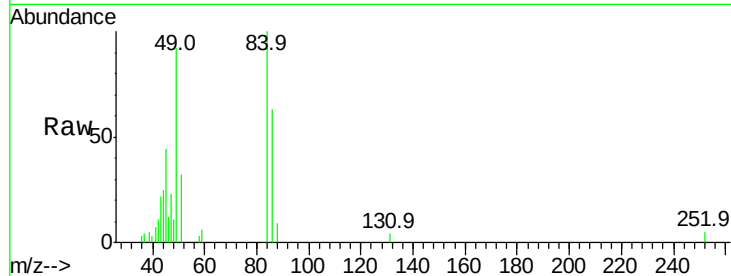




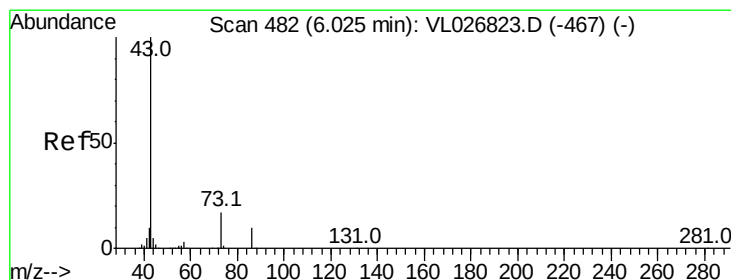
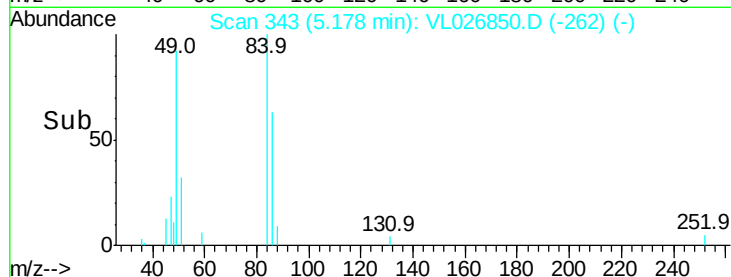
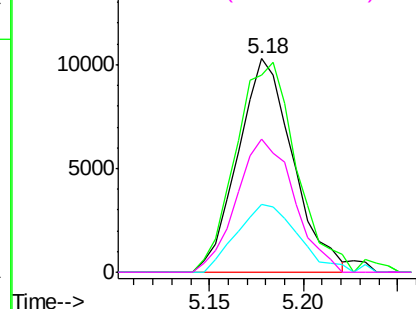
#20
Methylene Chloride
Concen: 0.17 ppbv
RT: 5.18 min Scan# 343
Delta R.T. -0.01 min
Lab File: VL026850.D
Acq: 10 Feb 2016 13:03

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DL

Tgt Ion:	84	Resp:	20840
Ion	Ratio	Lower	Upper
84	100		
49	92.2	94.9	142.3#
51	32.0	29.5	44.3
86	62.5	51.9	77.9

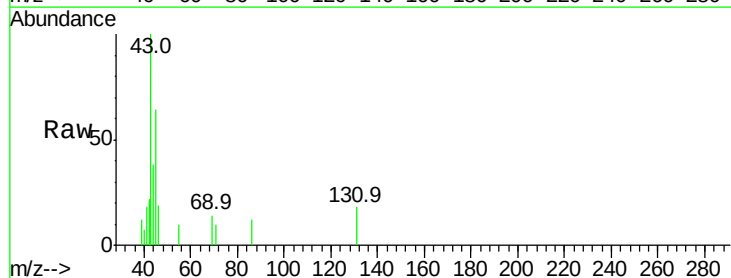


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

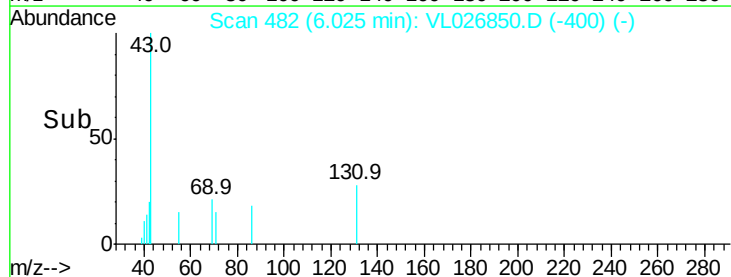
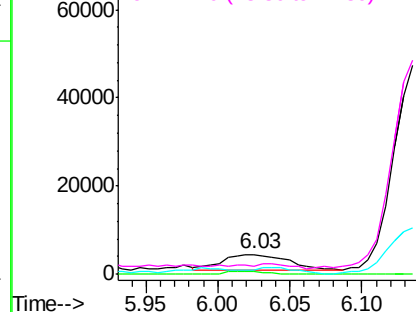


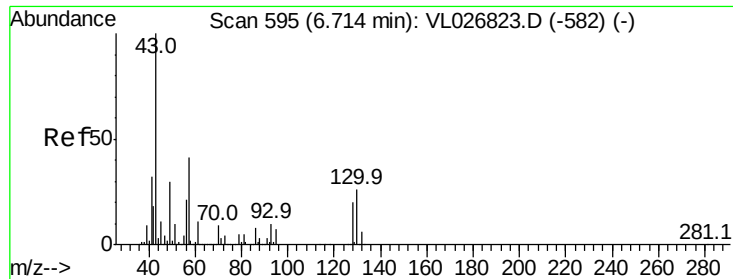
#23
Vinyl Acetate
Concen: 0.04 ppbv
RT: 6.03 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL026850.D
Acq: 10 Feb 2016 13:03

Tgt Ion:	43	Resp:	11383
Ion	Ratio	Lower	Upper
43	100		
86	15.2	7.7	11.5#
42	18.9	7.8	11.8#
44	0.0	3.9	5.9#



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





#25

Ethyl Acetate

Concen: 0.08 ppbv

RT: 6.72 min Scan# 596

Delta R.T. 0.01 min

Lab File: VL026850.D

Acq: 10 Feb 2016 13:03

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DL

Tgt Ion: 43 Resp: 29828

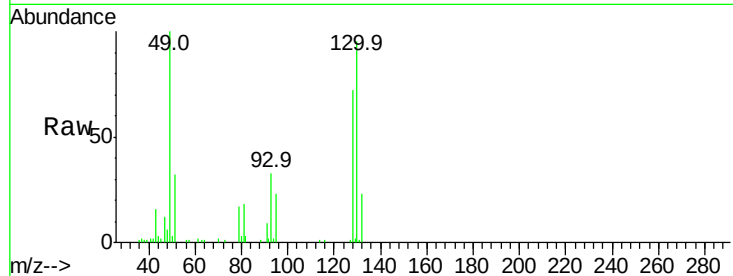
Ion Ratio Lower Upper

43 100

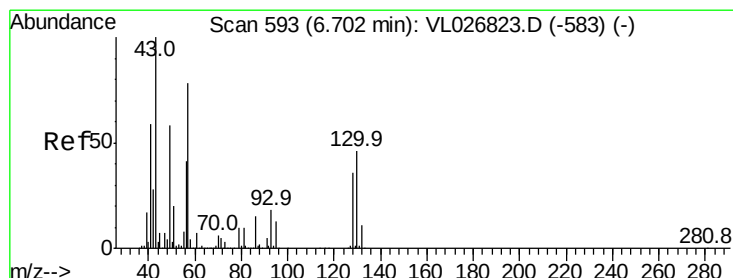
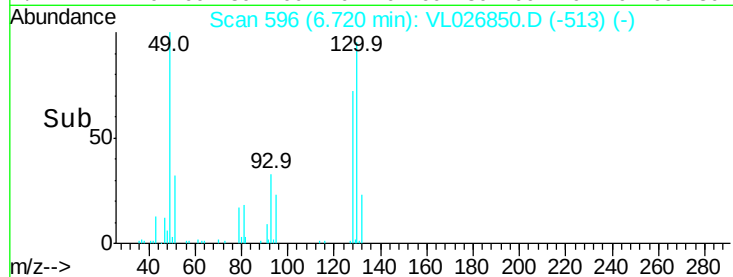
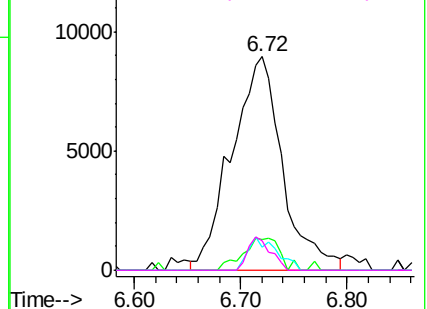
45 11.5 7.8 11.8

61 8.7 7.9 11.9

70 7.0 6.9 10.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.06 ppbv

RT: 6.69 min Scan# 591

Delta R.T. -0.01 min

Lab File: VL026850.D

Acq: 10 Feb 2016 13:03

Tgt Ion: 57 Resp: 11749

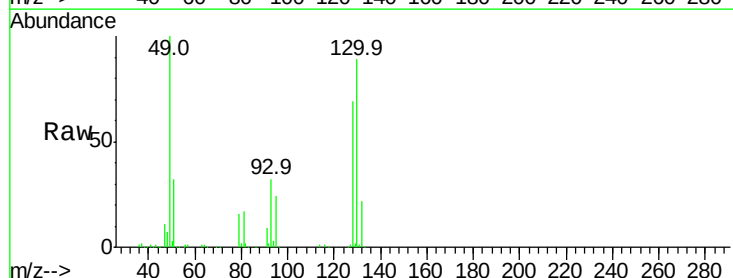
Ion Ratio Lower Upper

57 100

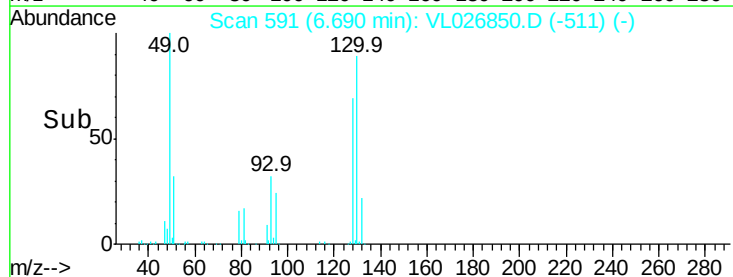
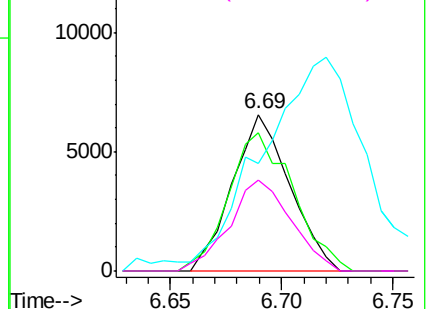
41 100.0 63.3 94.9#

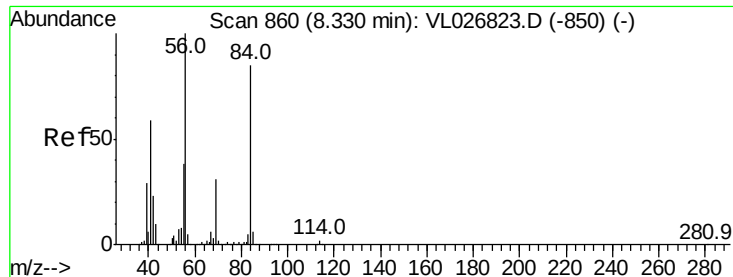
43 265.9 151.4 227.2#

56 62.6 42.2 63.2



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

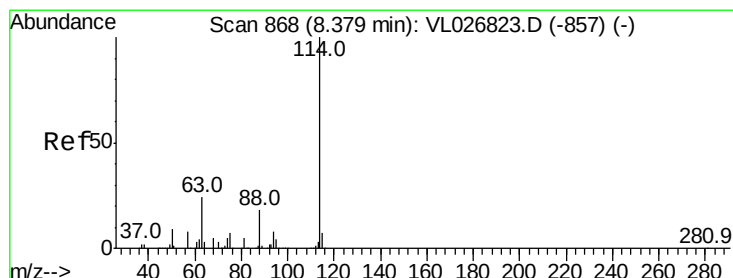
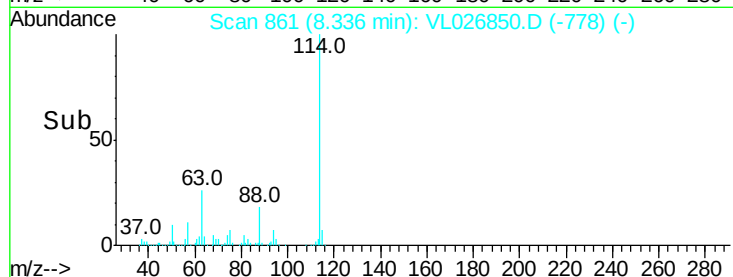
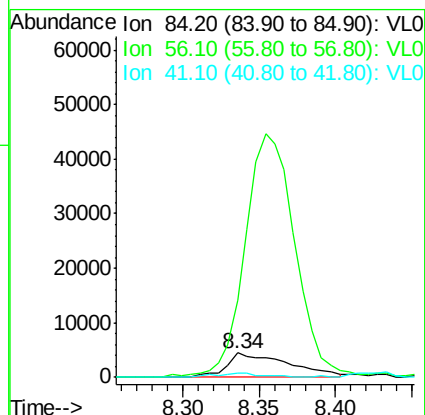
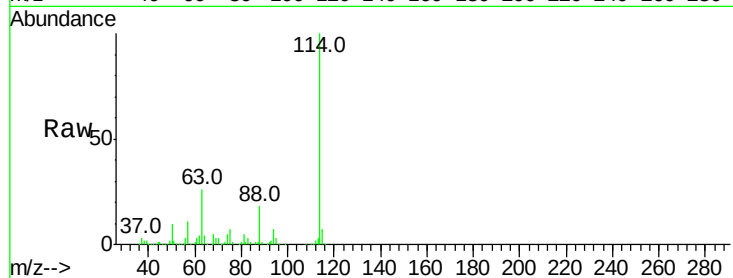




#30
Cyclohexane
Concen: 0.08 ppbv
RT: 8.34 min Scan# 861
Delta R.T. 0.01 min
Lab File: VL026850.D
Acq: 10 Feb 2016 13:03

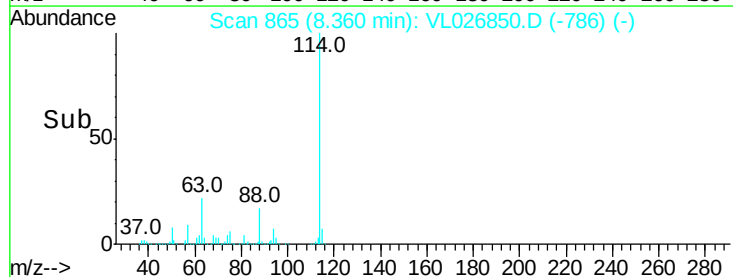
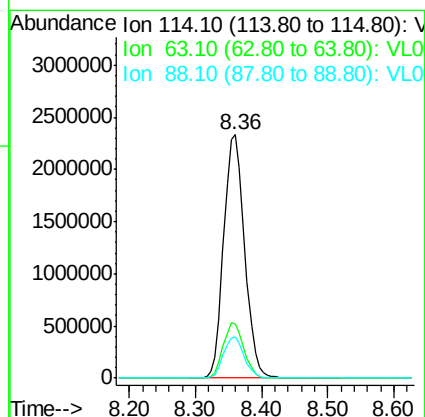
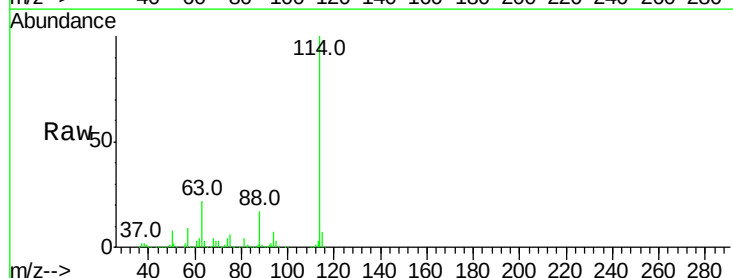
Instrument :
MSVOA_L
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IAS-1DL

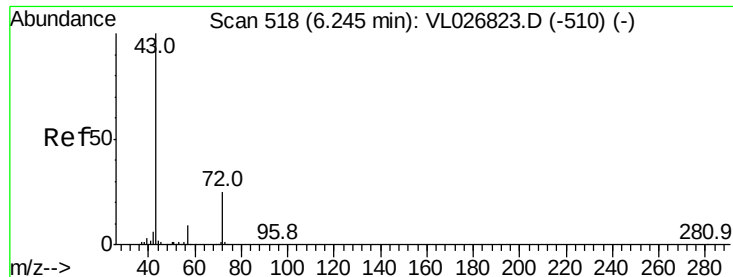
Tgt Ion: 84 Resp: 12503
Ion Ratio Lower Upper
84 100
56 823.0 99.4 149.2#
41 0.0 56.7 85.1#



#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

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

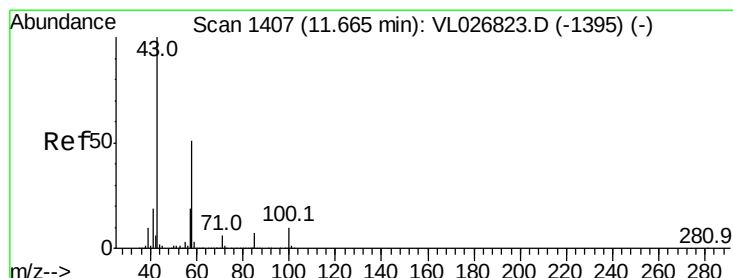
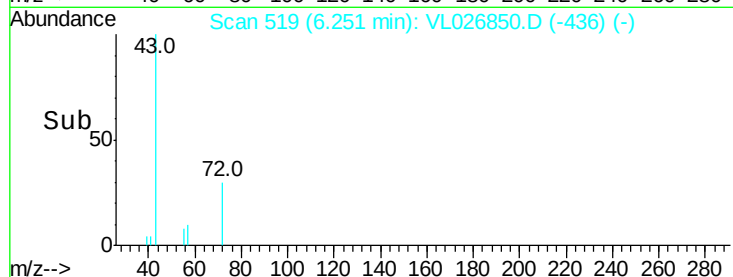
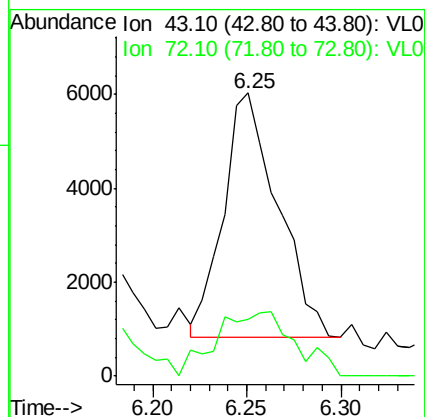
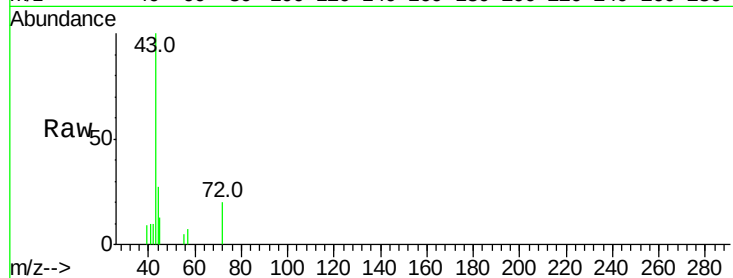




#34
 2-Butanone
 Concen: 0.04 ppbv
 RT: 6.25 min Scan# 519
 Delta R.T. 0.01 min
 Lab File: VL026850.D
 Acq: 10 Feb 2016 13:03

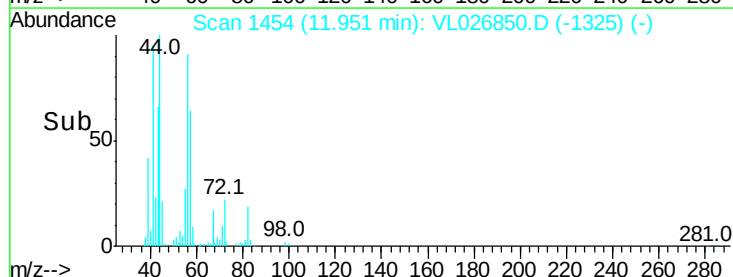
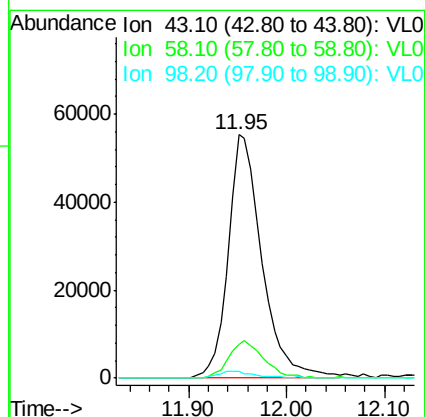
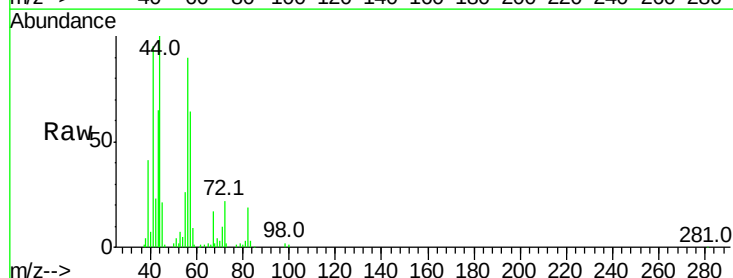
Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1DL

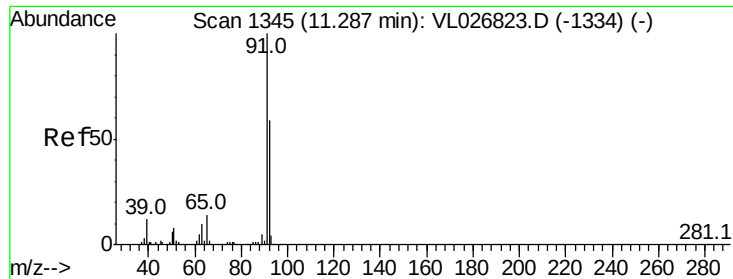
Tgt Ion: 43 Resp: 10419
 Ion Ratio Lower Upper
 43 100
 72 38.2 19.8 29.8#



#51
 2-Hexanone
 Concen: 0.53 ppbv
 RT: 11.95 min Scan# 1454
 Delta R.T. 0.29 min
 Lab File: VL026850.D
 Acq: 10 Feb 2016 13:03

Tgt Ion: 43 Resp: 132250
 Ion Ratio Lower Upper
 43 100
 58 15.8 40.4 60.6#
 98 3.0 0.2 0.4#





#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

Instrument :

MSVOA_L

ClientSampleId :

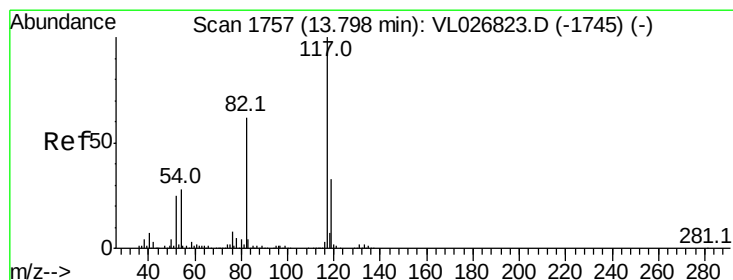
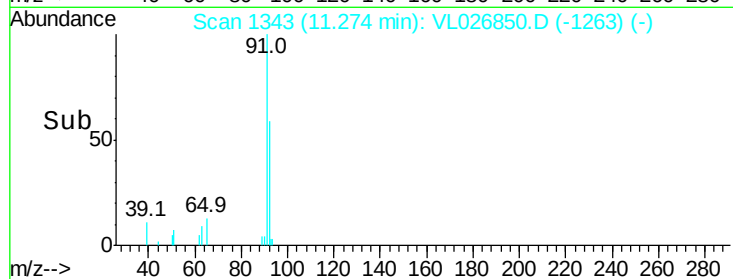
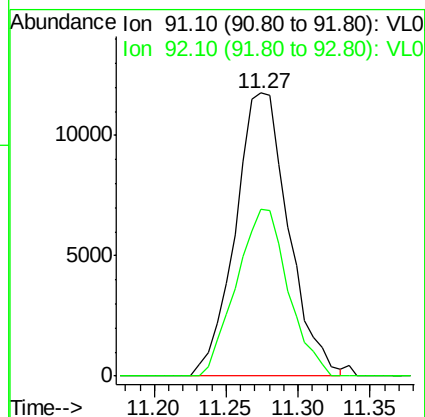
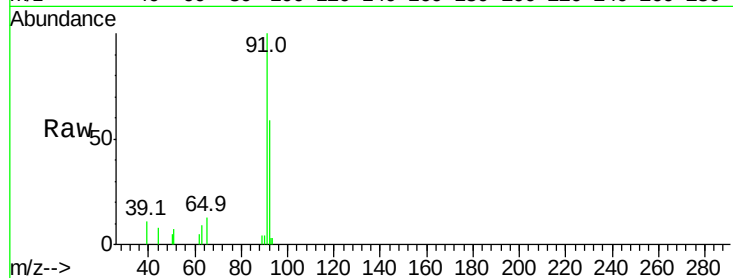
IAS-1DL

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

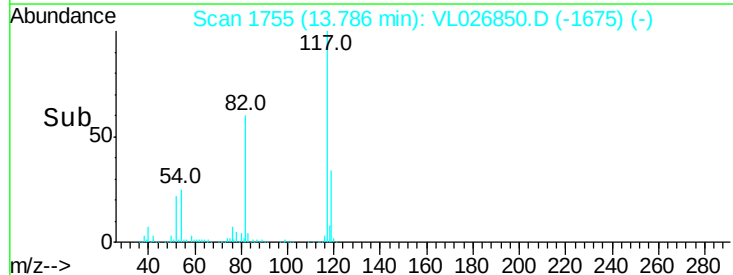
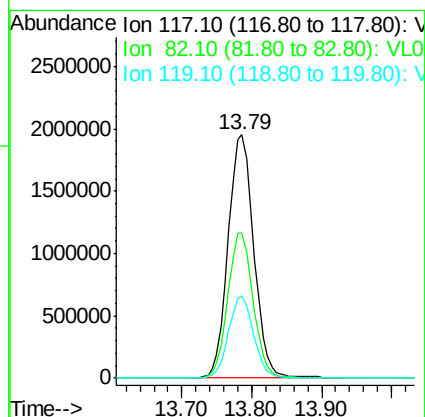
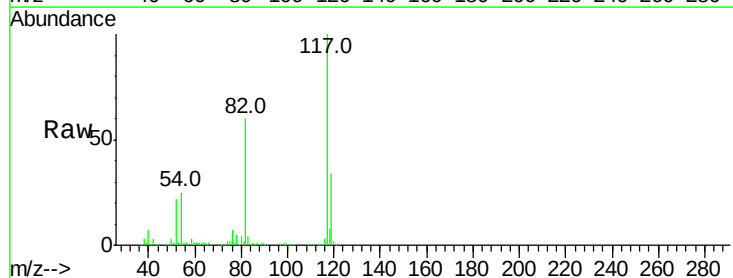
Tgt Ion: 117 Resp: 4994149

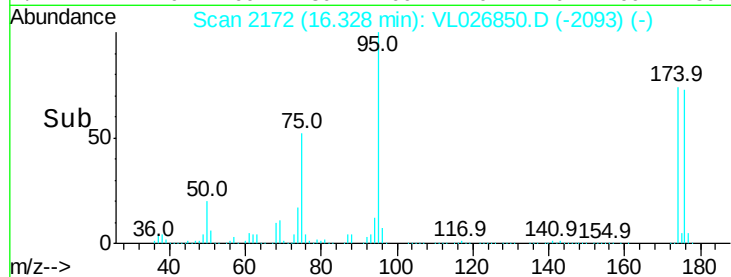
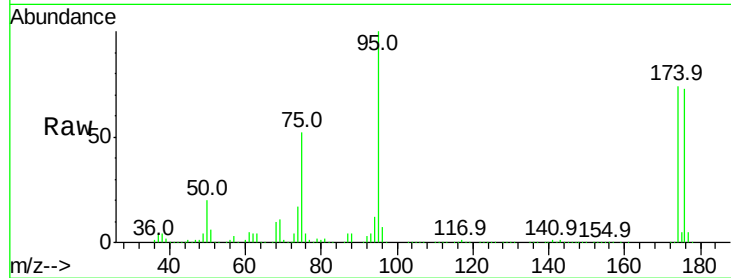
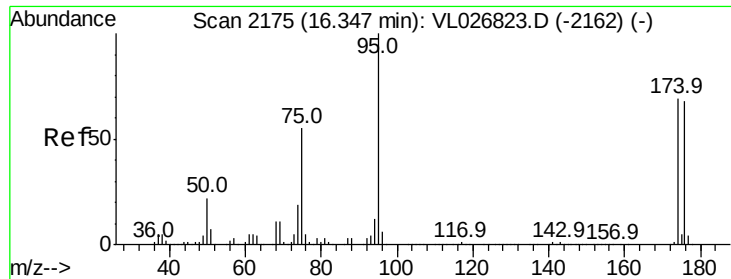
Ion Ratio Lower Upper

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

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DL

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

