

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026842.D
 Acq On : 10 Feb 2016 6:12
 Operator : SY/AP
 Sample : H1388-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2DL

Quant Time: Feb 10 07:56:53 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	1707620	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	4867118	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.79	117	4629808	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	3230525	9.72	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

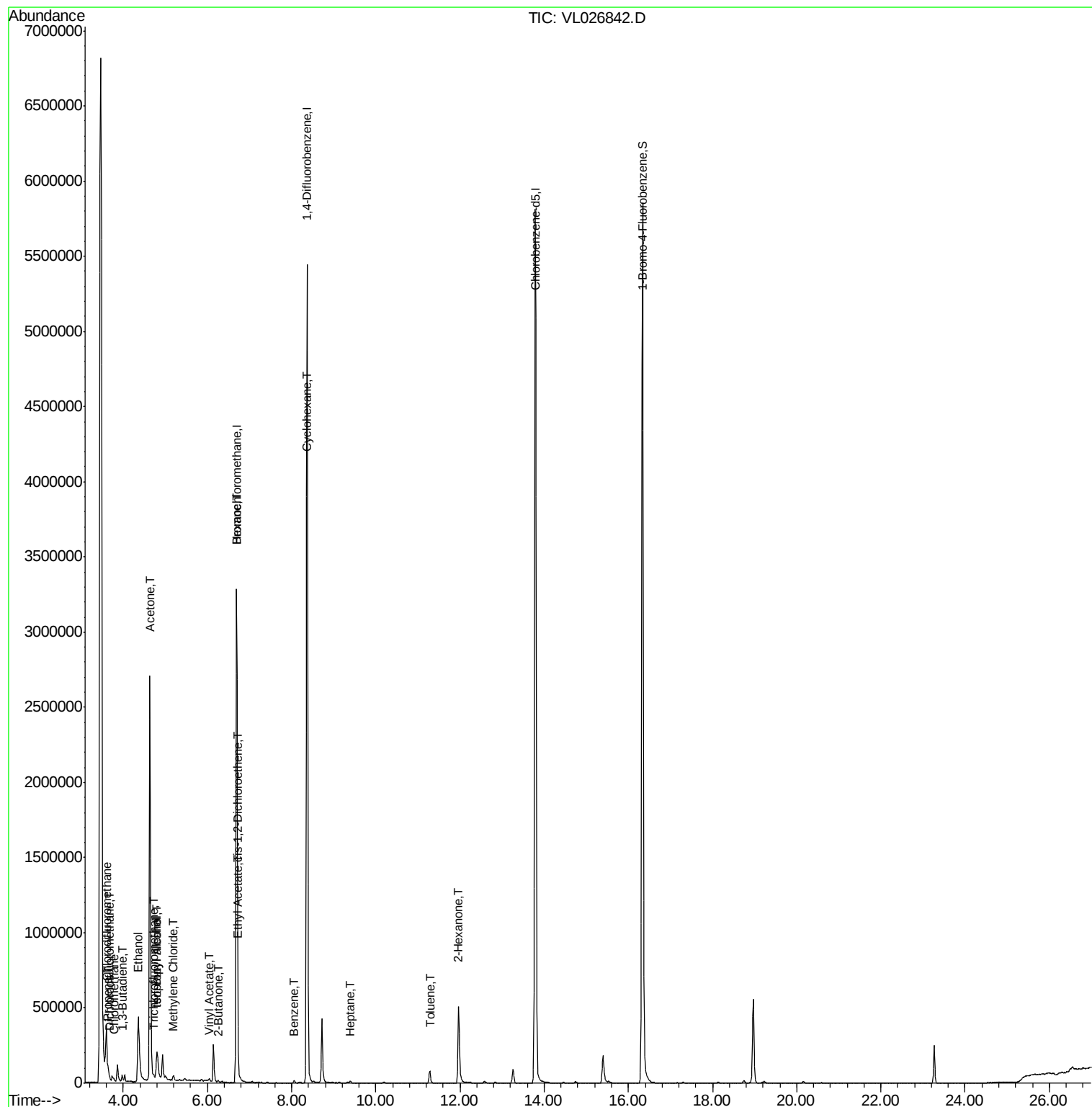
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.67	85	21914	0.06	ppbv	99
3) Chlorodifluoromethane	3.60	51	433616	1.57	ppbv	91
4) Chloromethane	3.78	50	6632	0.06	ppbv	96
9) Propene	3.64	41	19060	0.25	ppbv	85
10) Heptane	9.39	43	7544	0.03	ppbv #	67
11) Trichlorofluoromethane	4.73	101	13943	0.03	ppbv	100
13) Ethanol	4.35	45	747570	58.08	ppbv	99
15) Acetone	4.63	43	3748109	15.98	ppbv	100
16) 1,3-Butadiene	3.98	39	6716	0.07	ppbv #	3
17) tert-Butyl alcohol	4.81	59	15425	0.10	ppbv	98
19) Isopropyl Alcohol	4.80	45	352082	4.21	ppbv #	92
20) Methylene Chloride	5.18	84	14815	0.12	ppbv	95
23) Vinyl Acetate	6.03	43	10357	0.03	ppbv #	71
25) Ethyl Acetate	6.73	43	54935	0.16	ppbv #	95
26) Hexane	6.70	57	11307	0.06	ppbv #	1
30) Cyclohexane	8.35	84	8505	0.05	ppbv #	19
31) cis-1,2-Dichloroethene	6.72	61	5980	0.04	ppbv #	29
34) 2-Butanone	6.26	43	17697	0.07	ppbv	92
36) Benzene	8.06	78	15171	0.04	ppbv	95
51) 2-Hexanone	11.97	43	122915	0.52	ppbv #	27
53) Toluene	11.29	91	82474	0.19	ppbv	97

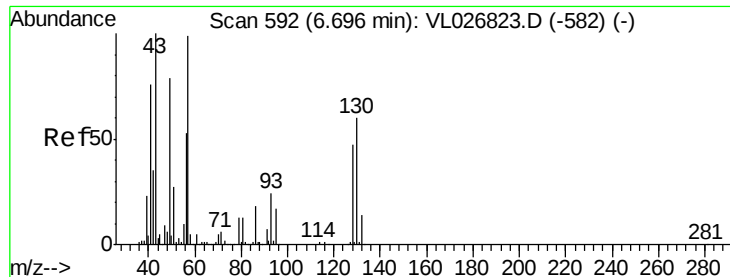
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
Data File : VL026842.D
Acq On : 10 Feb 2016 6:12
Operator : SY/AP
Sample : H1388-02DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IAS-2DL

Quant Time: Feb 10 07:56:53 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: 6.69 min Scan# 591

Delta R.T. -0.01 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Instrument :

MSVOA_L

ClientSampleId :

IAS-2DL

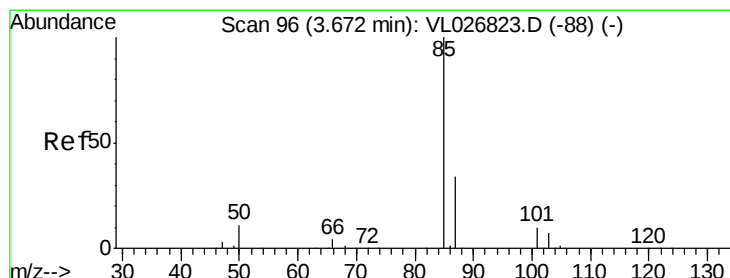
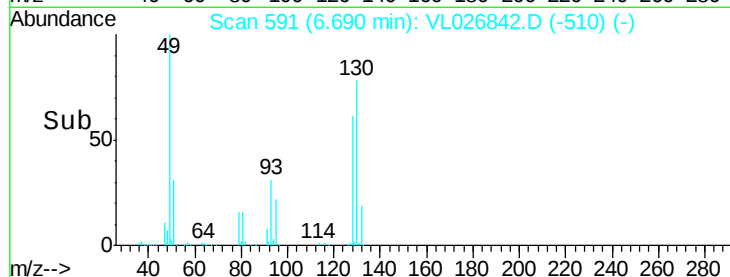
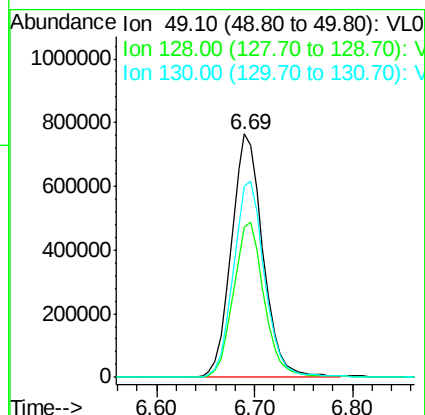
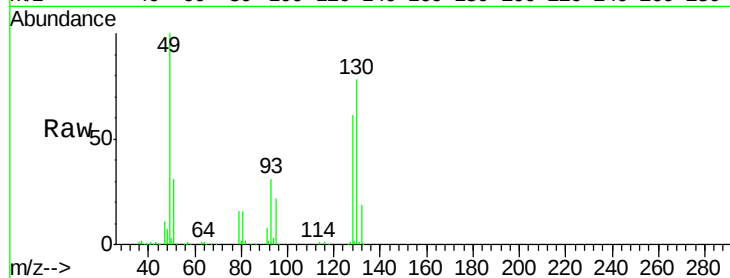
Tgt Ion: 49 Resp: 1707620

Ion Ratio Lower Upper

49 100

128 63.0 29.7 89.1

130 0.0 38.3 114.8#



#2

Dichlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.67 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL026842.D

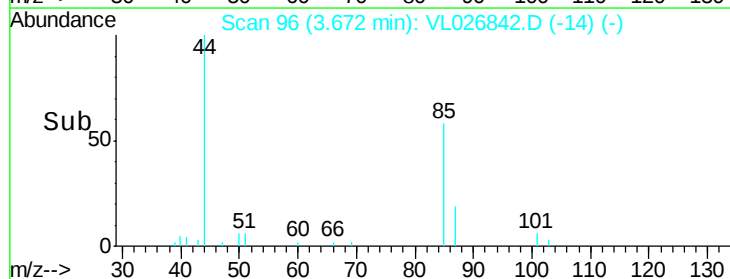
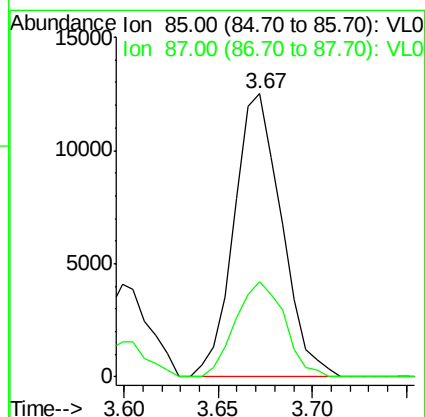
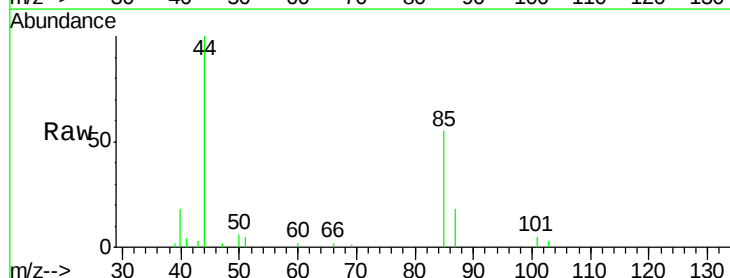
Acq: 10 Feb 2016 6:12

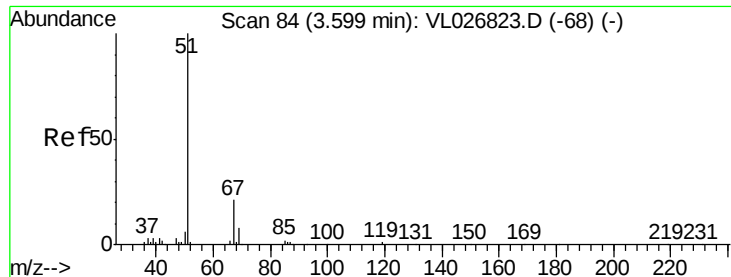
Tgt Ion: 85 Resp: 21914

Ion Ratio Lower Upper

85 100

87 33.5 27.3 40.9





#3

Chlorodifluoromethane

Concen: 1.57 ppbv

RT: 3.60 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Instrument :

MSVOA_L

ClientSampleId :

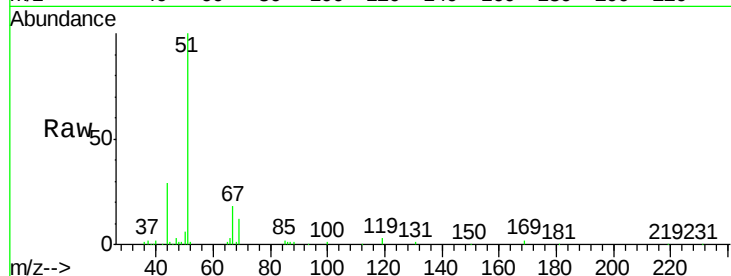
IAS-2DL

Tgt Ion: 51 Resp: 433616

Ion Ratio Lower Upper

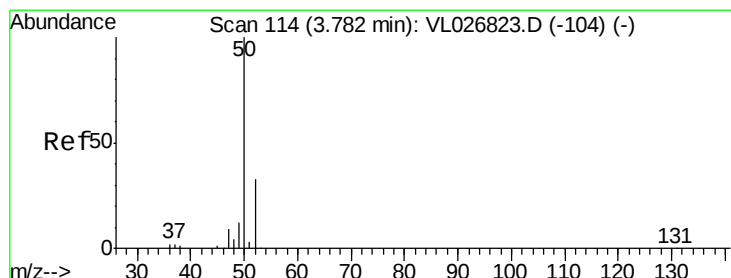
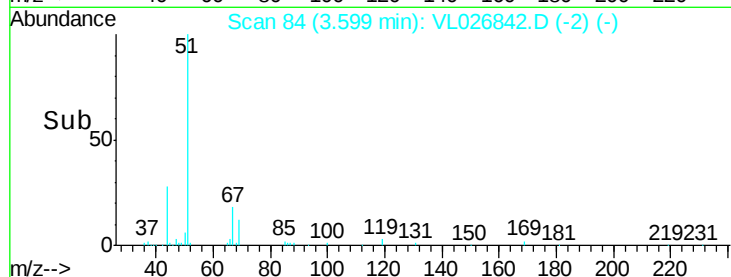
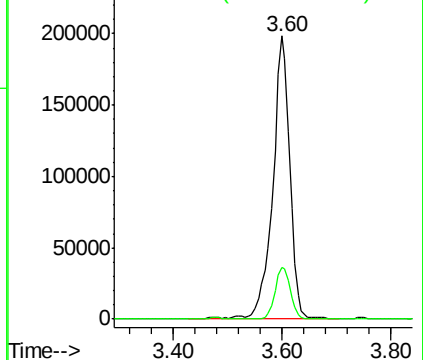
51 100

67 16.4 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.78 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL026842.D

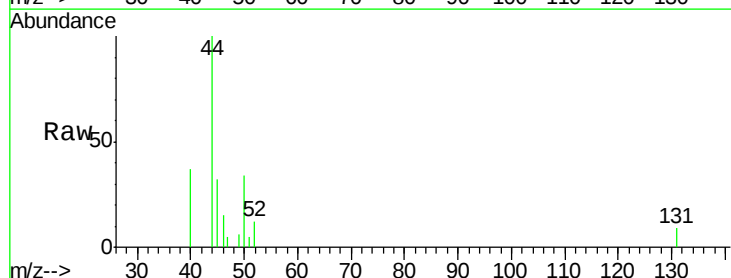
Acq: 10 Feb 2016 6:12

Tgt Ion: 50 Resp: 6632

Ion Ratio Lower Upper

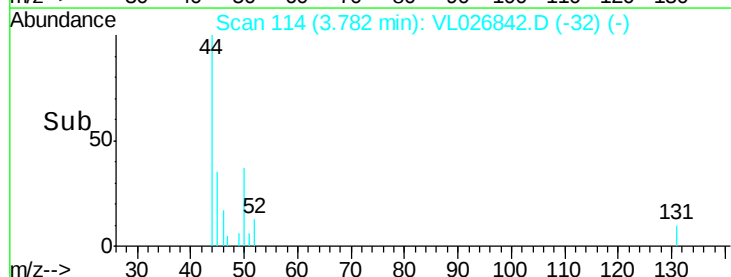
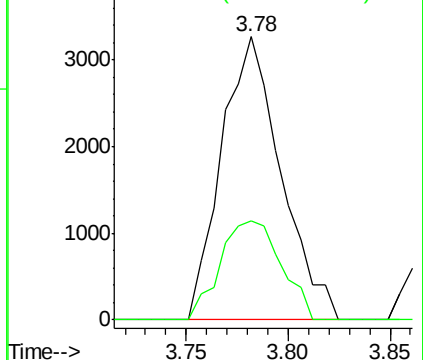
50 100

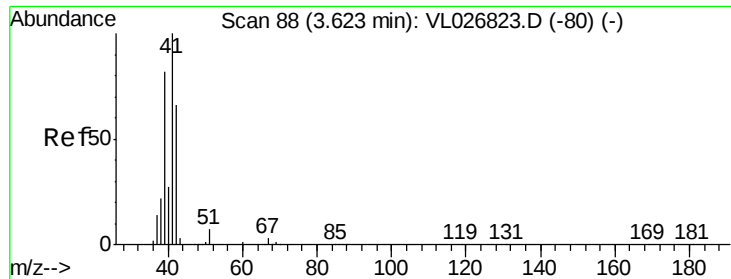
52 35.0 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.25 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Instrument :

MSVOA_L

ClientSampleId :

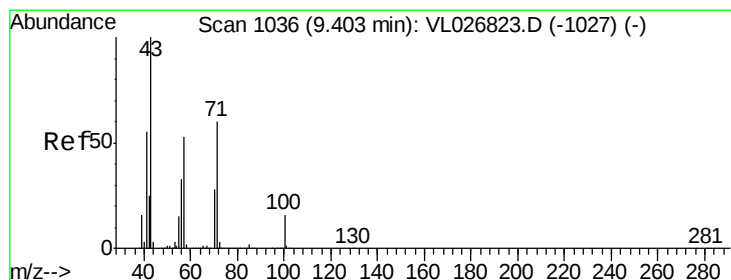
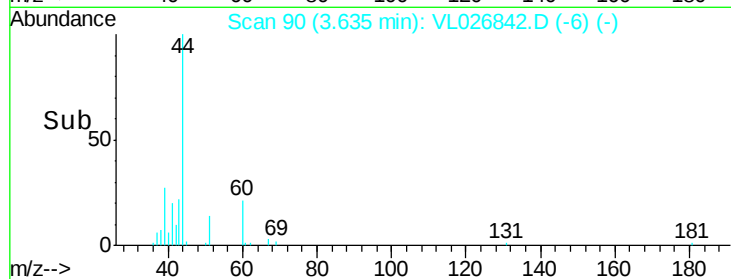
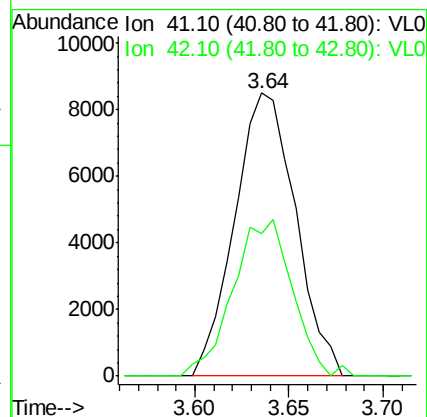
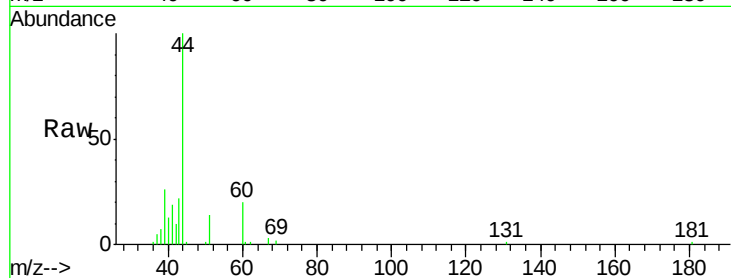
IAS-2DL

Tgt Ion: 41 Resp: 19060

Ion Ratio Lower Upper

41 100

42 53.9 52.8 79.2



#10

Heptane

Concen: 0.03 ppbv

RT: 9.39 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VL026842.D

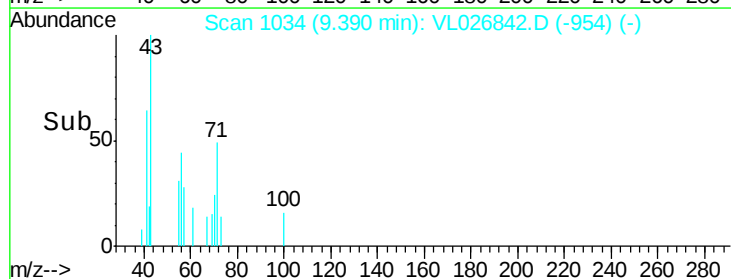
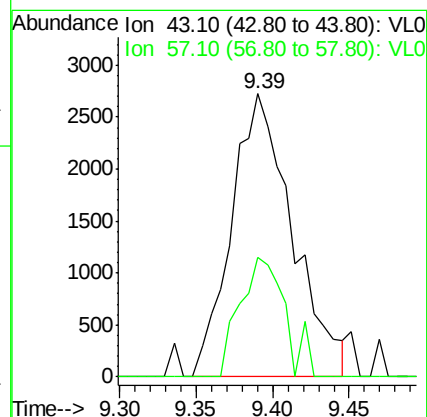
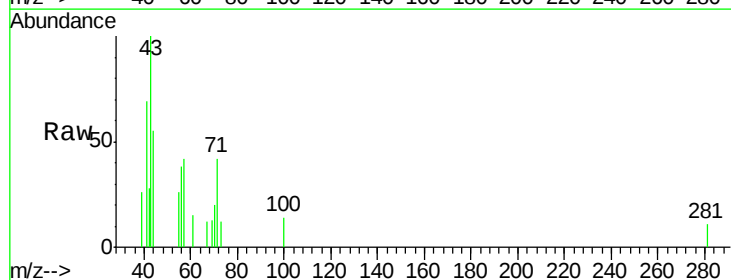
Acq: 10 Feb 2016 6:12

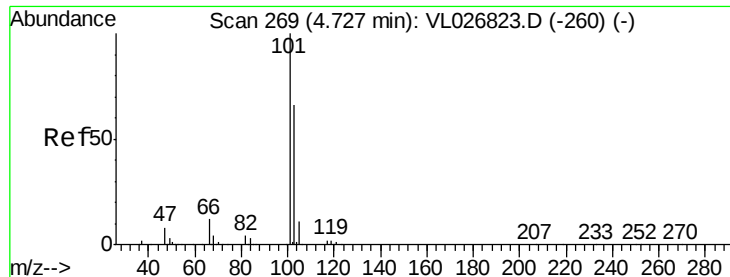
Tgt Ion: 43 Resp: 7544

Ion Ratio Lower Upper

43 100

57 31.1 44.0 66.0#





#11

Trichlorofluoromethane

Concen: 0.03 ppbv

RT: 4.73 min Scan# 270

Delta R.T. 0.01 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Instrument :

MSVOA_L

ClientSampleId :

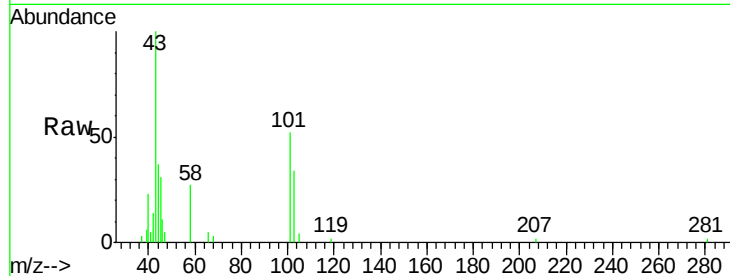
IAS-2DL

Tgt Ion: 101 Resp: 13943

Ion Ratio Lower Upper

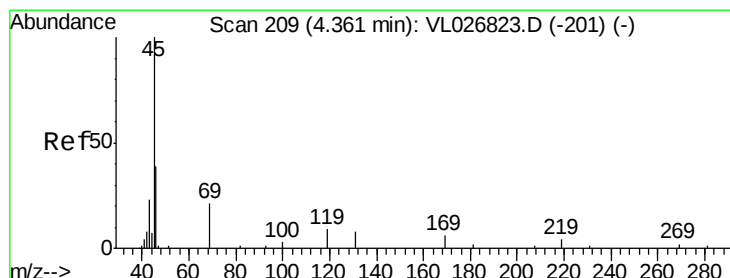
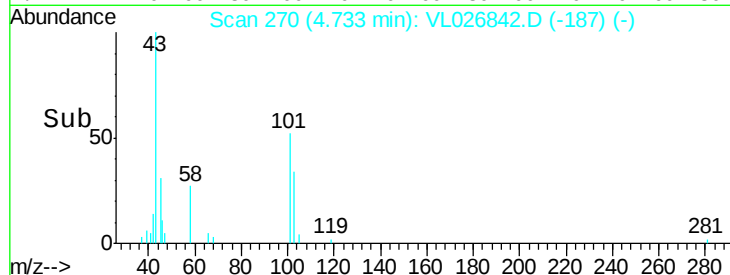
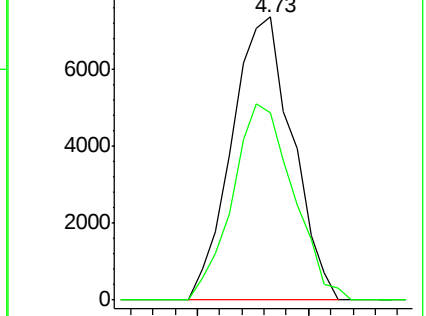
101 100

103 66.0 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 58.08 ppbv

RT: 4.35 min Scan# 208

Delta R.T. -0.01 min

Lab File: VL026842.D

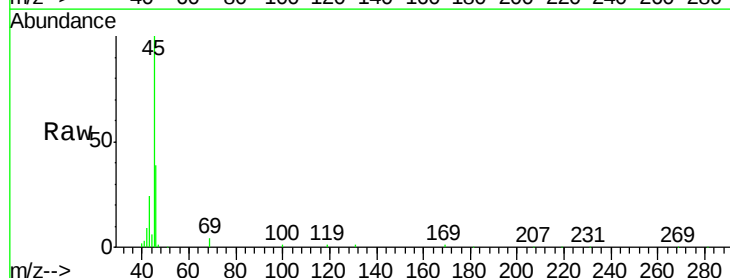
Acq: 10 Feb 2016 6:12

Tgt Ion: 45 Resp: 747570

Ion Ratio Lower Upper

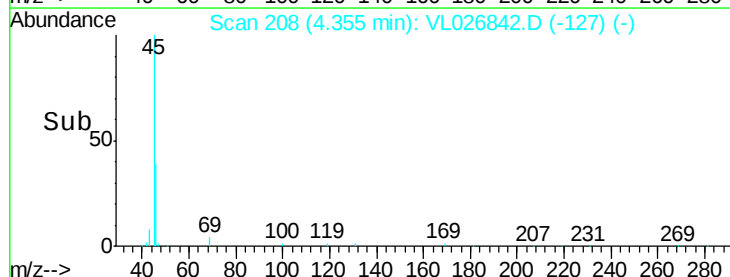
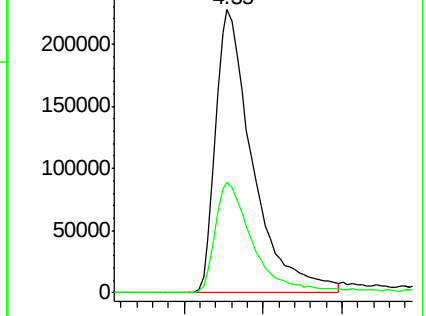
45 100

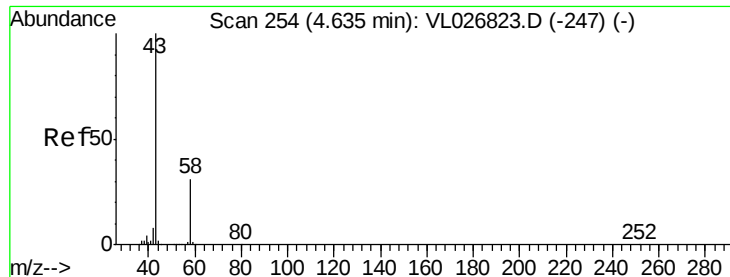
46 40.4 15.8 63.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 15.98 ppbv

RT: 4.63 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Instrument :

MSVOA_L

ClientSampleId :

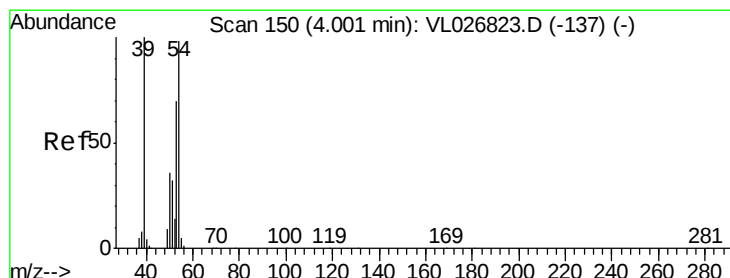
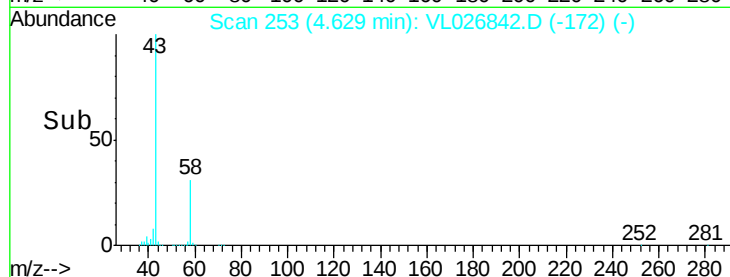
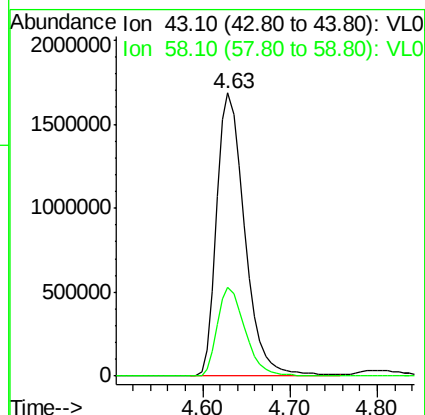
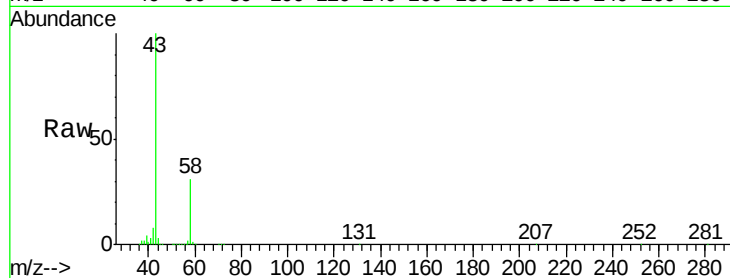
IAS-2DL

Tgt Ion: 43 Resp: 3748109

Ion Ratio Lower Upper

43 100

58 31.3 25.2 37.8



#16

1,3-Butadiene

Concen: 0.07 ppbv

RT: 3.98 min Scan# 146

Delta R.T. -0.02 min

Lab File: VL026842.D

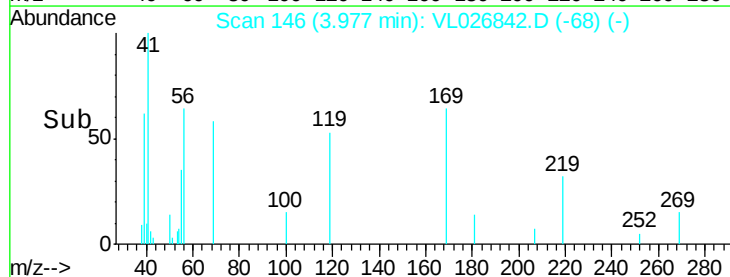
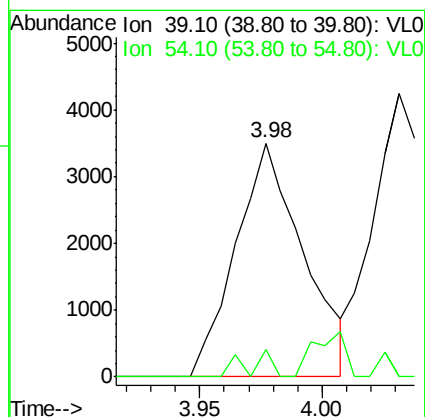
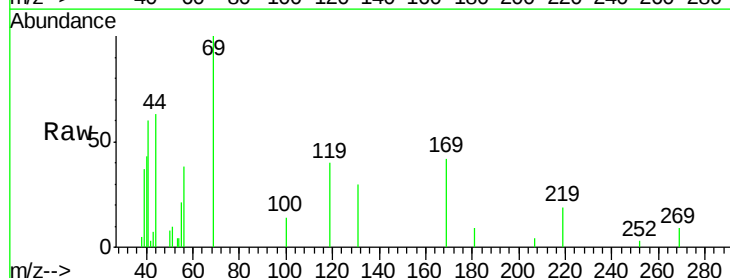
Acq: 10 Feb 2016 6:12

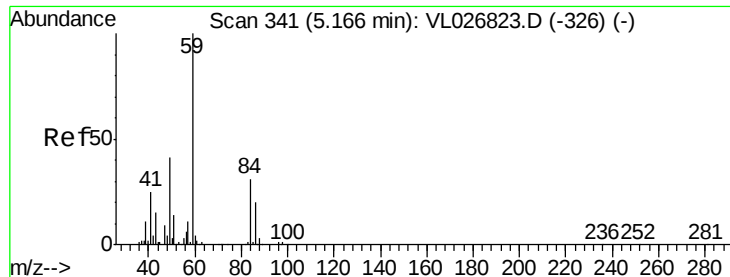
Tgt Ion: 39 Resp: 6716

Ion Ratio Lower Upper

39 100

54 0.0 74.7 112.1#

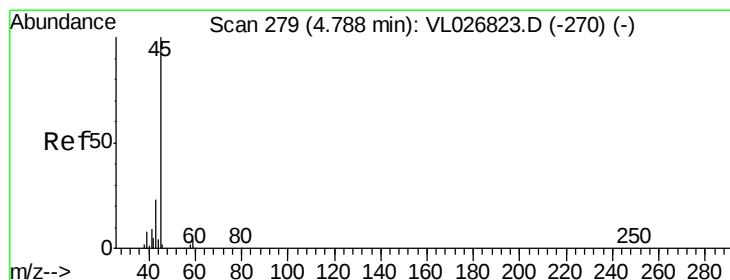
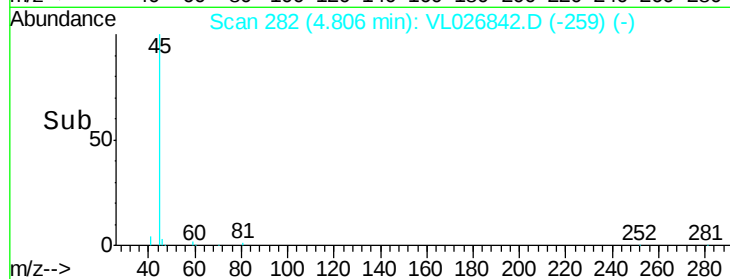
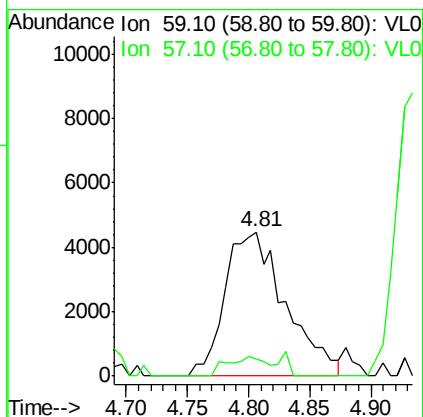
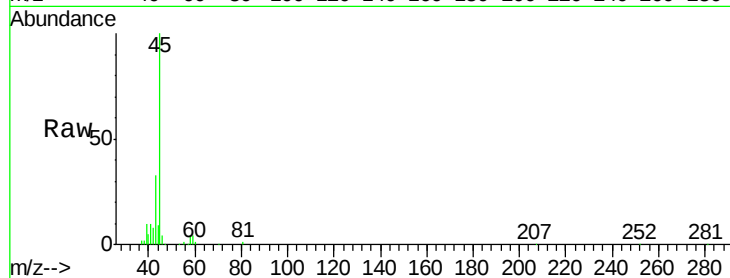




#17
tert-Butyl alcohol
Concen: 0.10 ppbv
RT: 4.81 min Scan# 282
Delta R.T. -0.36 min
Lab File: VL026842.D
Acq: 10 Feb 2016 6:12

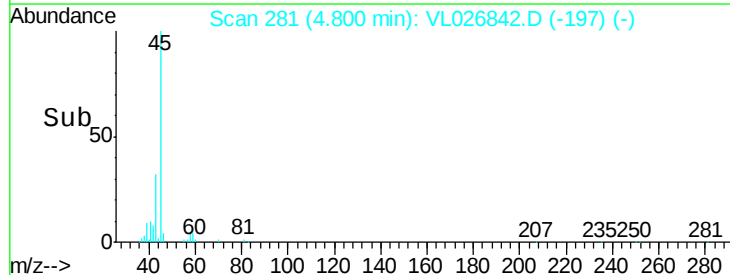
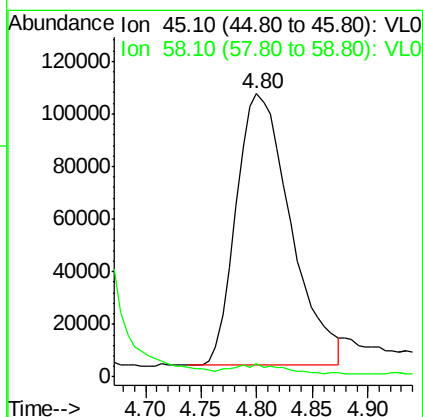
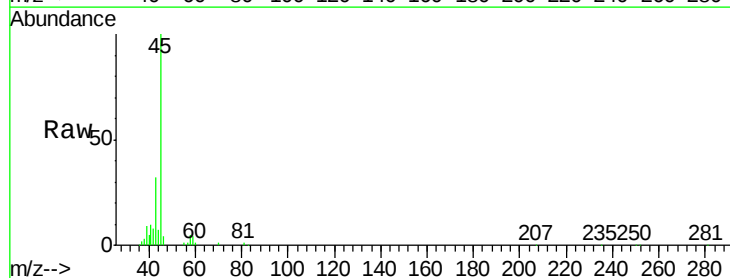
Instrument :
MSVOA_L
ClientSampleId :
IAS-2DL

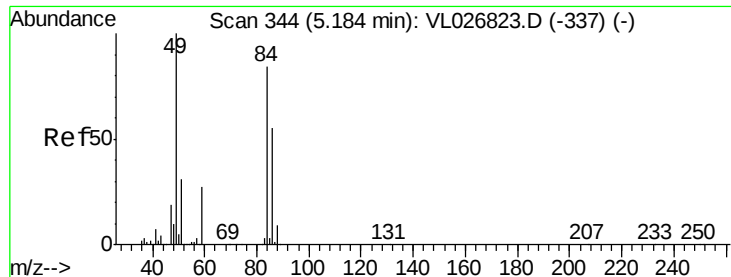
Tgt Ion: 59 Resp: 15425
Ion Ratio Lower Upper
59 100
57 11.3 8.5 12.7



#19
Isopropyl Alcohol
Concen: 4.21 ppbv
RT: 4.80 min Scan# 281
Delta R.T. 0.01 min
Lab File: VL026842.D
Acq: 10 Feb 2016 6:12

Tgt Ion: 45 Resp: 352082
Ion Ratio Lower Upper
45 100
58 0.0 2.2 3.2#

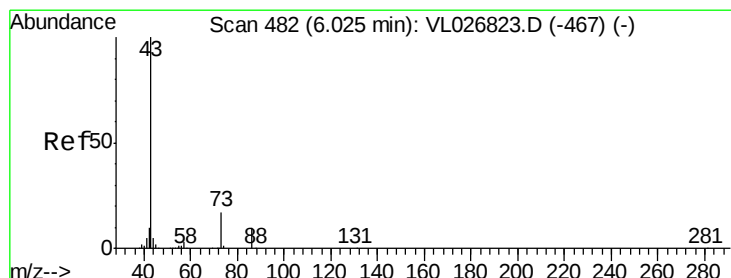
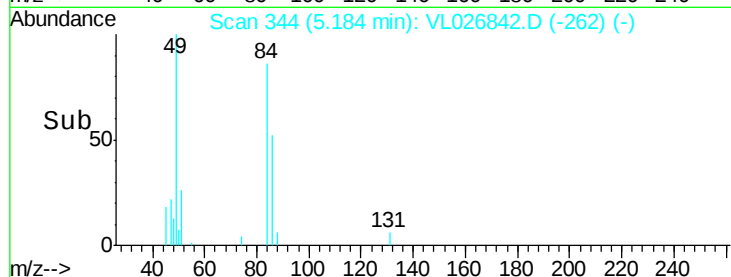
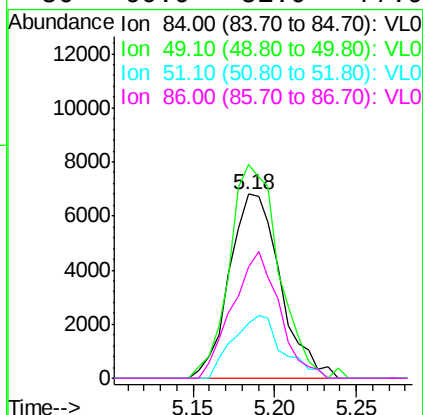
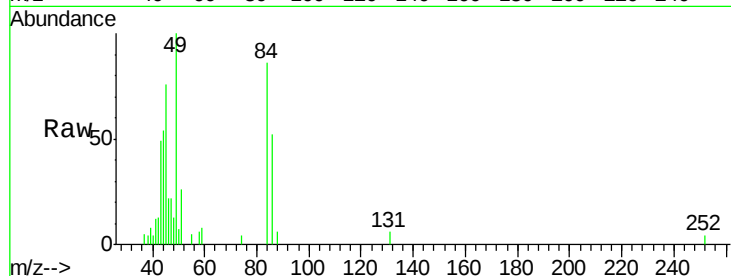




#20
Methylene Chloride
Concen: 0.12 ppbv
RT: 5.18 min Scan# 344
Delta R.T. -0.00 min
Lab File: VL026842.D
Acq: 10 Feb 2016 6:12

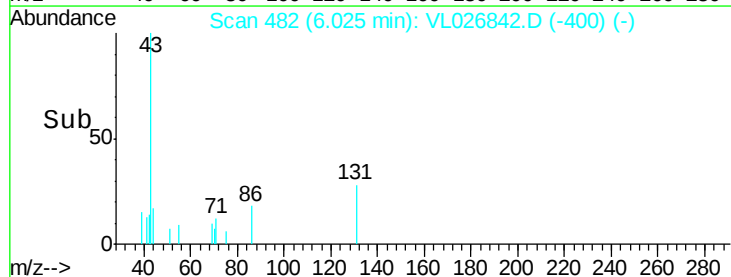
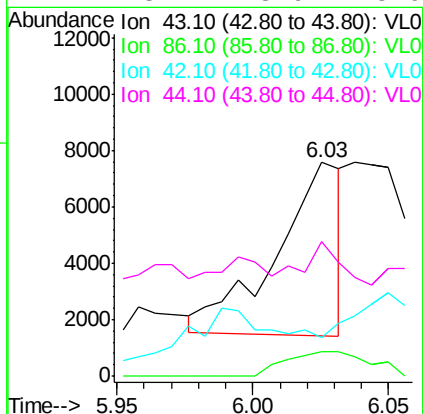
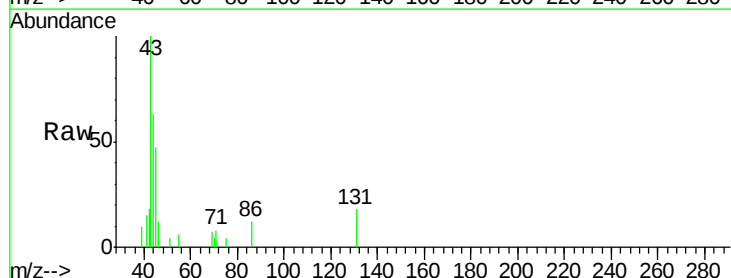
Instrument :
MSVOA_L
ClientSampleId :
IAS-2DL

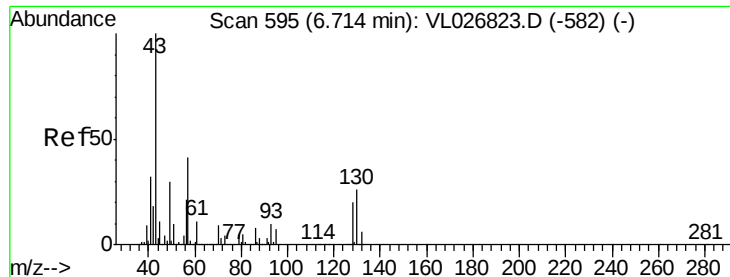
Tgt Ion:	84	Resp:	14815
Ion	Ratio	Lower	Upper
84	100		
49	116.2	94.9	142.3
51	30.2	29.5	44.3
86	60.9	51.9	77.9



#23
Vinyl Acetate
Concen: 0.03 ppbv
RT: 6.03 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL026842.D
Acq: 10 Feb 2016 6:12

Tgt Ion:	43	Resp:	10357
Ion	Ratio	Lower	Upper
43	100		
86	16.2	7.7	11.5#
42	0.0	7.8	11.8#
44	23.7	3.9	5.9#





#25

Ethyl Acetate

Concen: 0.16 ppbv

RT: 6.73 min Scan# 597

Delta R.T. 0.01 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Instrument :

MSVOA_L

ClientSampleId :

IAS-2DL

Tgt Ion: 43 Resp: 54935

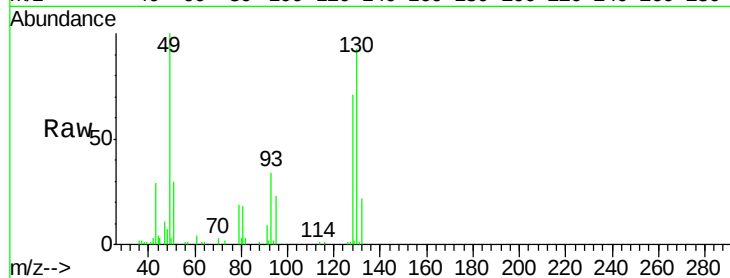
Ion Ratio Lower Upper

43 100

45 14.3 7.8 11.8#

61 10.9 7.9 11.9

70 8.6 6.9 10.3

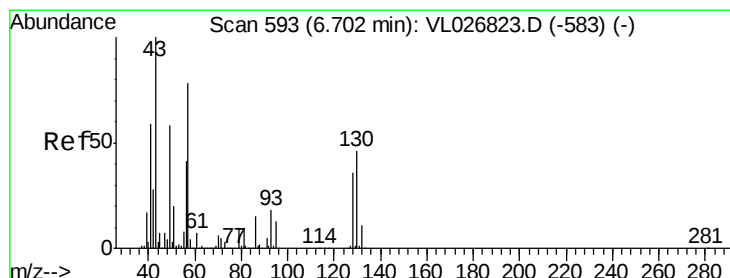
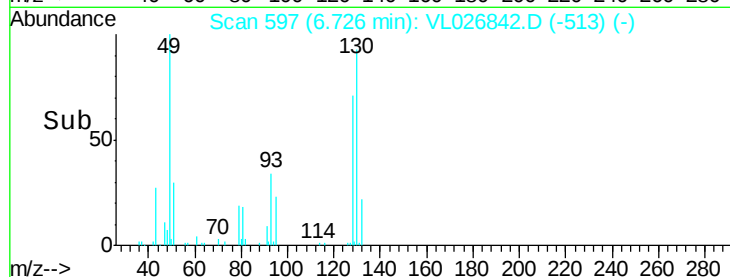
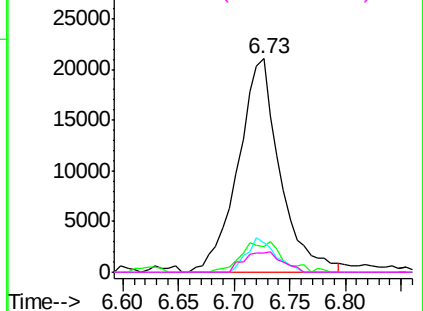


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 6.70 min Scan# 592

Delta R.T. -0.01 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Tgt Ion: 57 Resp: 11307

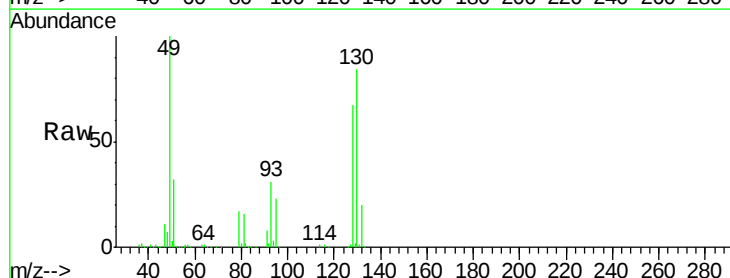
Ion Ratio Lower Upper

57 100

41 98.6 63.3 94.9#

43 519.2 151.4 227.2#

56 60.7 42.2 63.2

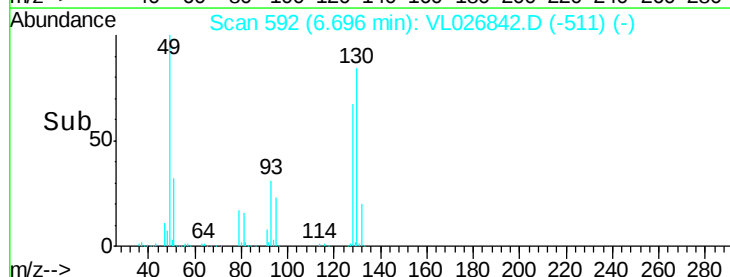
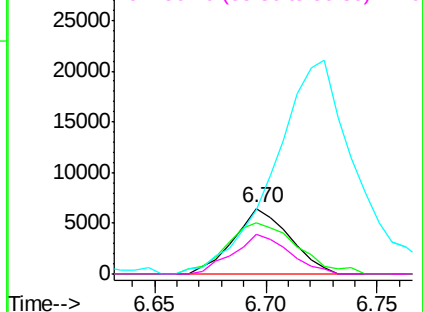


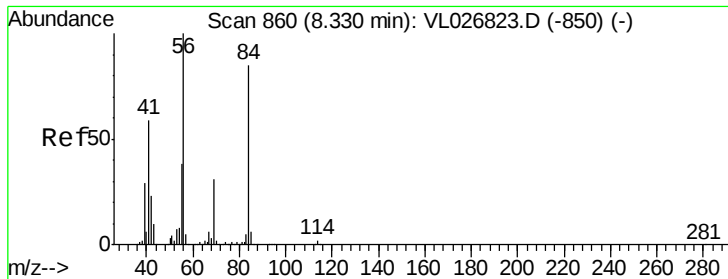
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

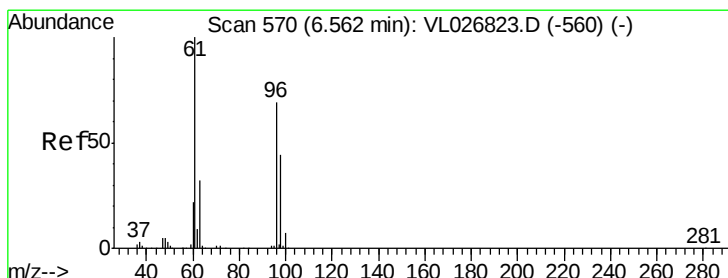
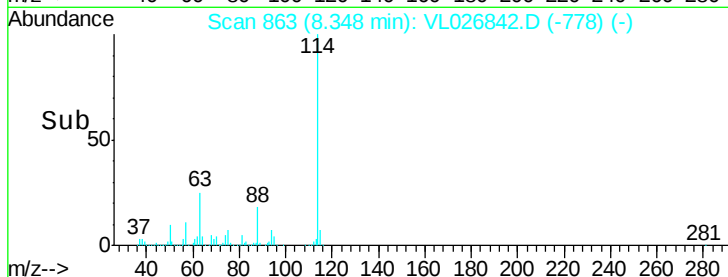
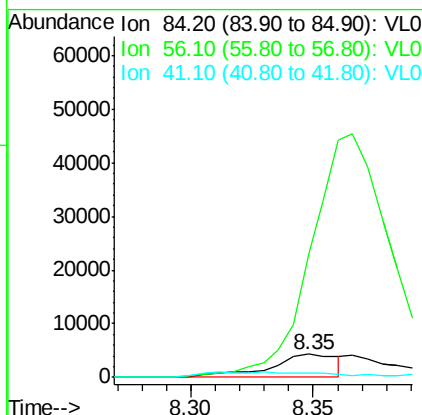
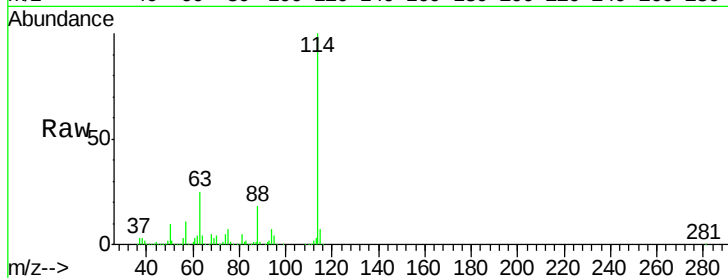




#30
Cyclohexane
Concen: 0.05 ppbv
RT: 8.35 min Scan# 863
Delta R.T. 0.02 min
Lab File: VL026842.D
Acq: 10 Feb 2016 6:12

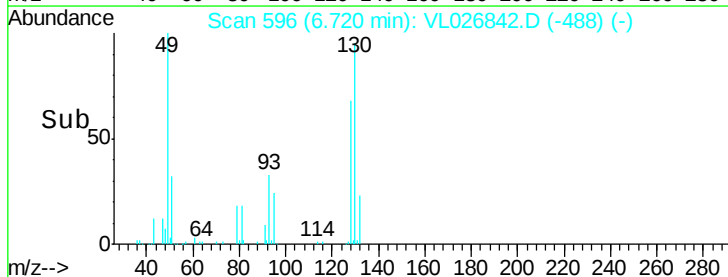
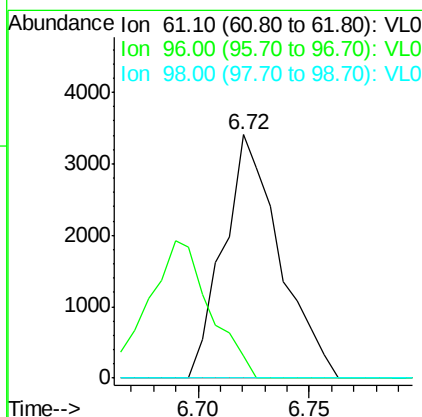
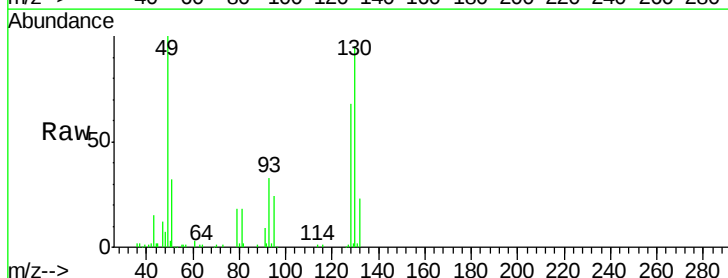
Instrument :
MSVOA_L
ClientSampleId :
IAS-2DL

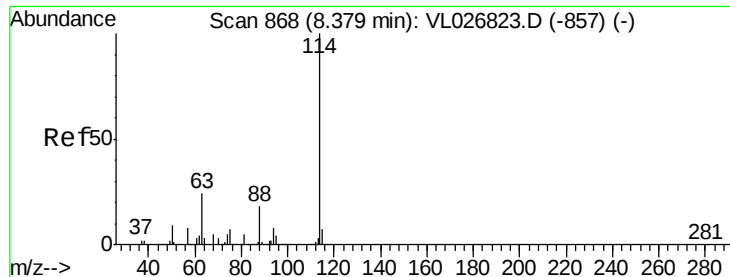
Tgt Ion: 84 Resp: 8505
Ion Ratio Lower Upper
84 100
56 0.0 99.4 149.2#
41 45.5 56.7 85.1#



#31
cis-1,2-Dichloroethene
Concen: 0.04 ppbv
RT: 6.72 min Scan# 596
Delta R.T. 0.16 min
Lab File: VL026842.D
Acq: 10 Feb 2016 6:12

Tgt Ion: 61 Resp: 5980
Ion Ratio Lower Upper
61 100
96 9.4 55.2 82.8#
98 0.0 35.2 52.8#

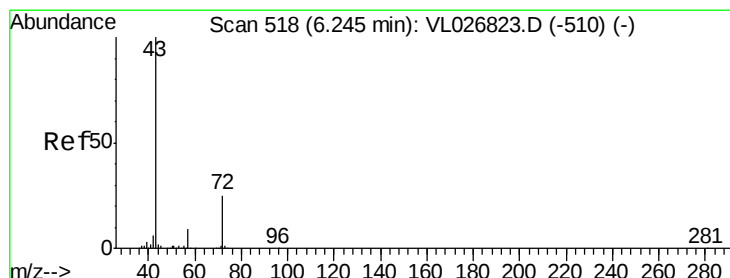
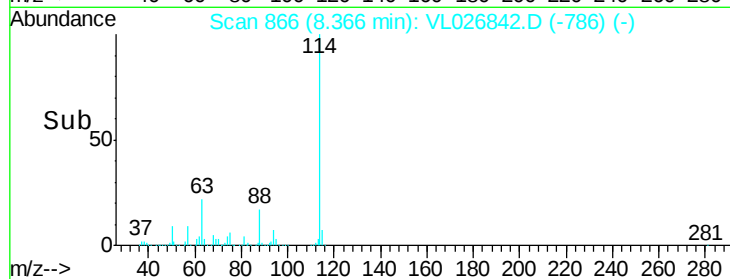
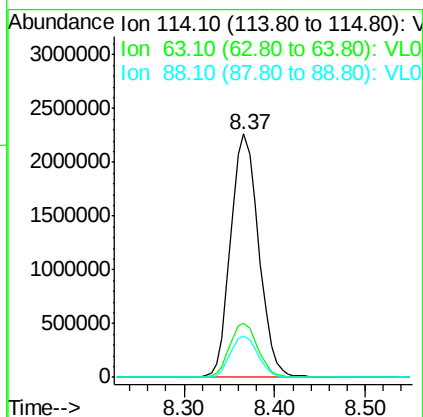
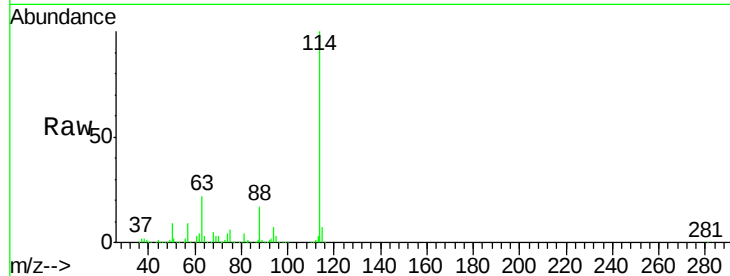




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.37 min Scan# 866
 Delta R.T. -0.01 min
 Lab File: VL026842.D
 Acq: 10 Feb 2016 6:12

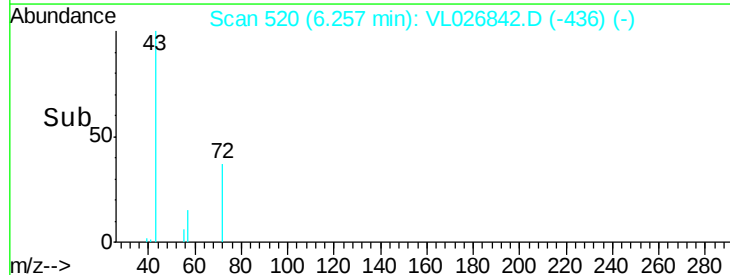
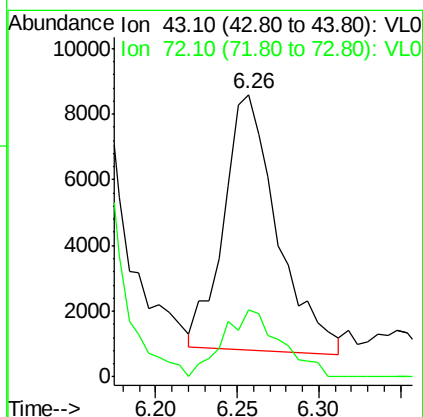
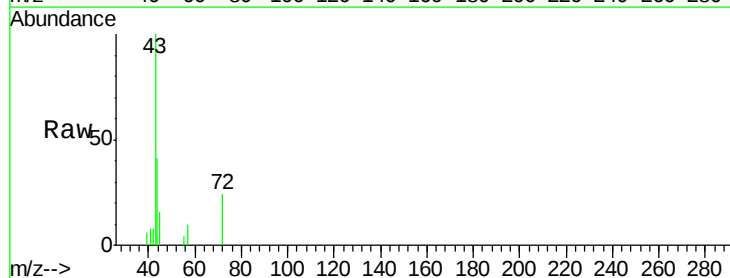
Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2DL

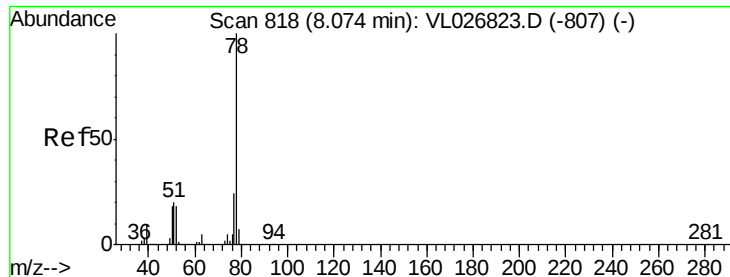
Tgt Ion:114 Resp: 4867118
 Ion Ratio Lower Upper
 114 100
 63 22.5 19.7 29.5
 88 16.8 13.8 20.6



#34
 2-Butanone
 Concen: 0.07 ppbv
 RT: 6.26 min Scan# 520
 Delta R.T. 0.01 min
 Lab File: VL026842.D
 Acq: 10 Feb 2016 6:12

Tgt Ion: 43 Resp: 17697
 Ion Ratio Lower Upper
 43 100
 72 28.6 19.8 29.8

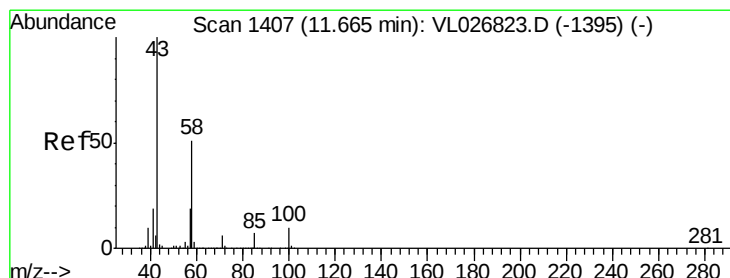
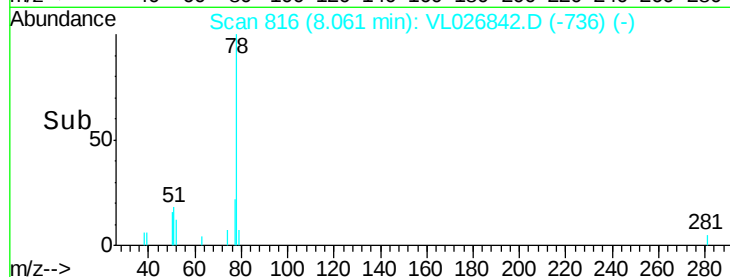
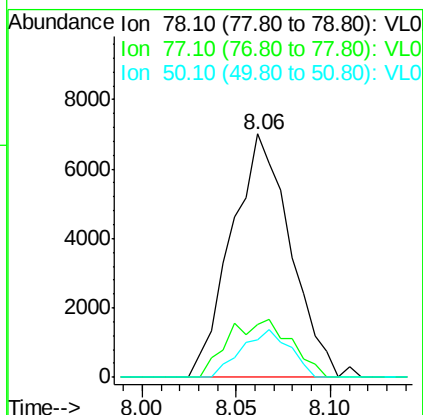
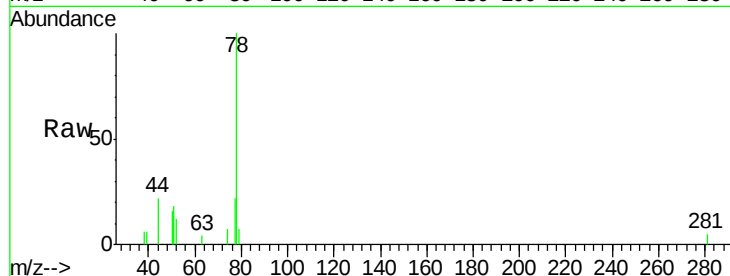




#36
Benzene
Concen: 0.04 ppbv
RT: 8.06 min Scan# 816
Delta R.T. -0.01 min
Lab File: VL026842.D
Acq: 10 Feb 2016 6:12

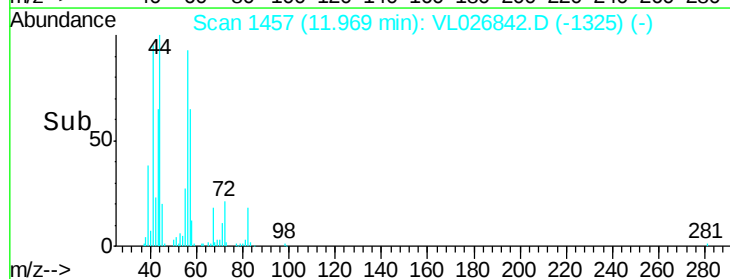
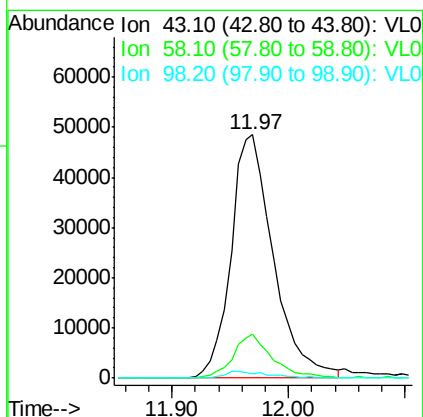
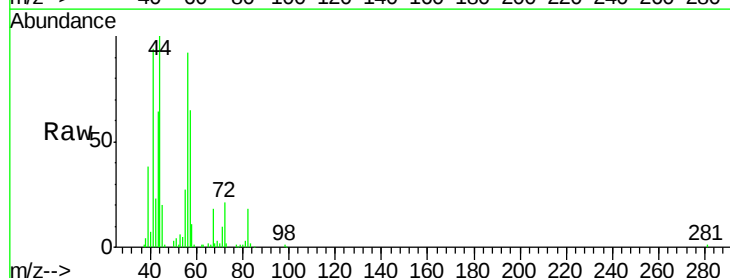
Instrument :
MSVOA_L
ClientSampleId :
IAS-2DL

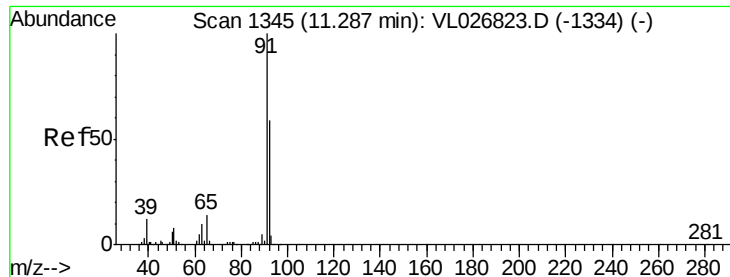
Tgt Ion: 78 Resp: 15171
Ion Ratio Lower Upper
78 100
77 21.6 19.0 28.6
50 15.5 14.2 21.4



#51
2-Hexanone
Concen: 0.52 ppbv
RT: 11.97 min Scan# 1457
Delta R.T. 0.30 min
Lab File: VL026842.D
Acq: 10 Feb 2016 6:12

Tgt Ion: 43 Resp: 122915
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 2.8 0.2 0.4#





#53

Toluene

Concen: 0.19 ppbv

RT: 11.29 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Instrument :

MSVOA_L

ClientSampleId :

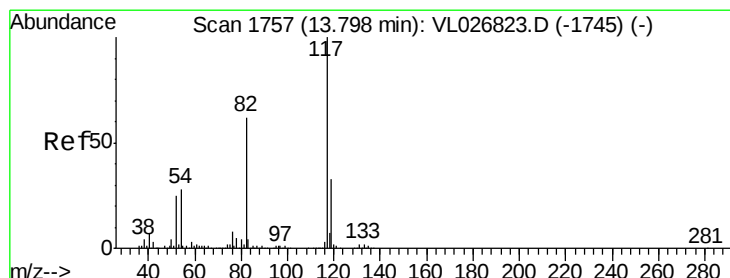
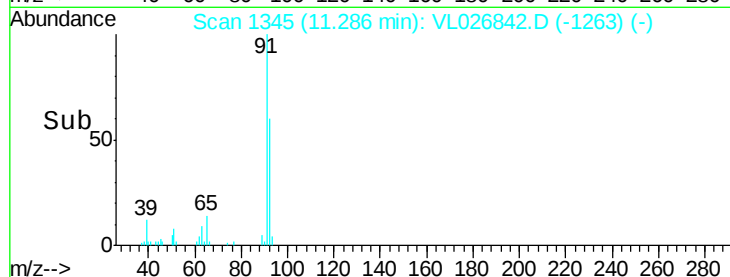
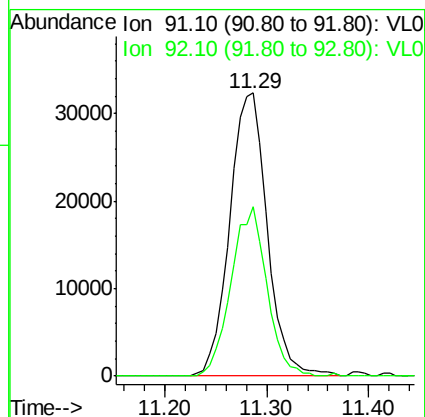
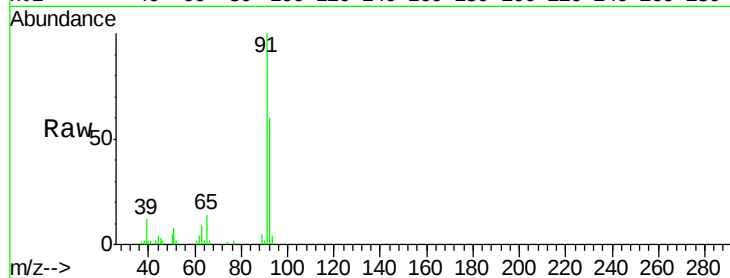
IAS-2DL

Tgt Ion: 91 Resp: 82474

Ion Ratio Lower Upper

91 100

92 57.0 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: VL026842.D

Acq: 10 Feb 2016 6:12

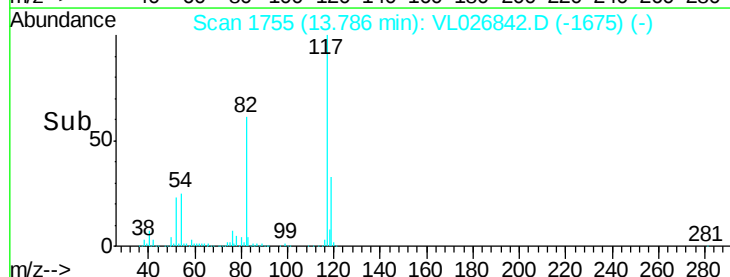
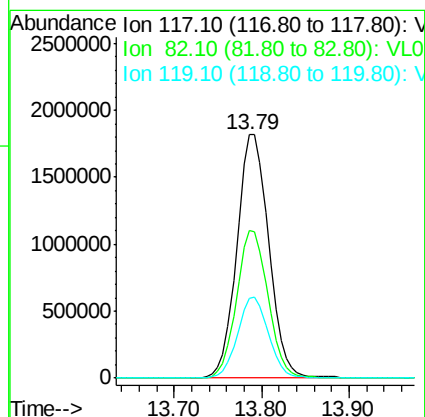
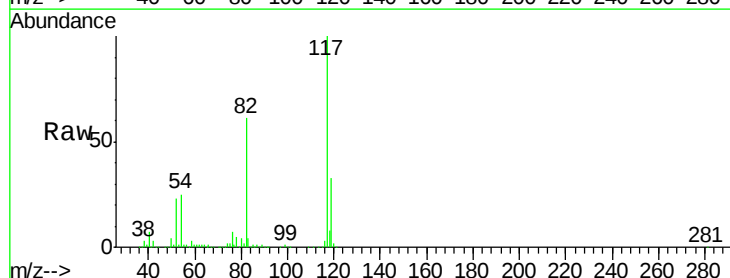
Tgt Ion: 117 Resp: 4629808

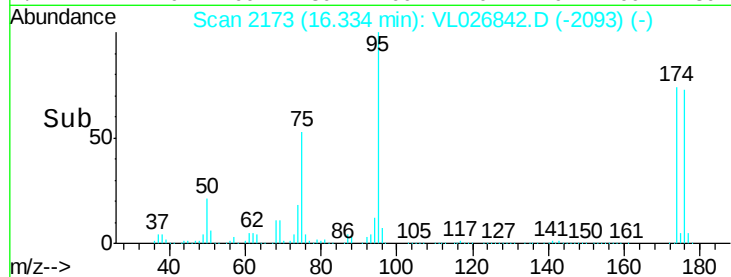
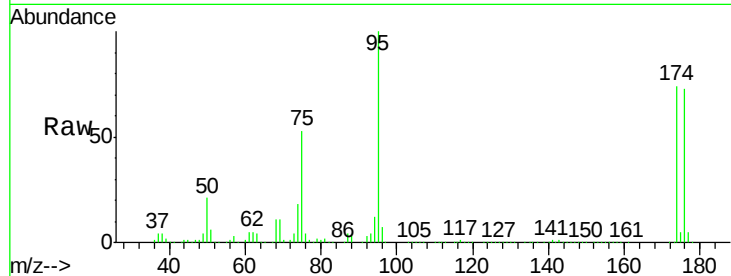
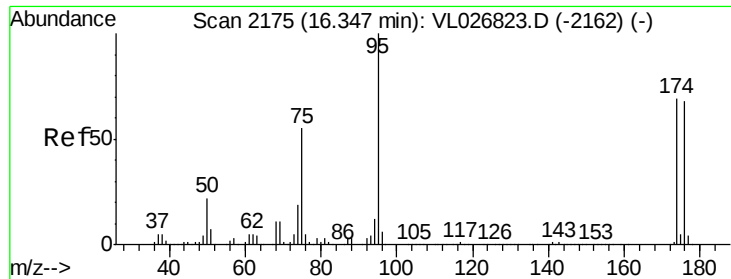
Ion Ratio Lower Upper

117 100

82 0.0 51.9 77.9#

119 32.8 48.5 72.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.72 ppbv

RT: 16.33 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL026842.D

Acq: 10 Feb 2016 6:12

Instrument :

MSVOA_L

ClientSampleId :

IAS-2DL

Tgt Ion: 95 Resp: 3230525

Ion Ratio Lower Upper

95 100

174 74.3 55.6 83.4

175 5.2 3.9 5.9

