

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026846.D
 Acq On : 10 Feb 2016 8:52
 Operator : SY/AP
 Sample : H1404-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Feb 10 10:36:28 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	1916780	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.36	114	5801895	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.79	117	5765403	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	4120209	9.95	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

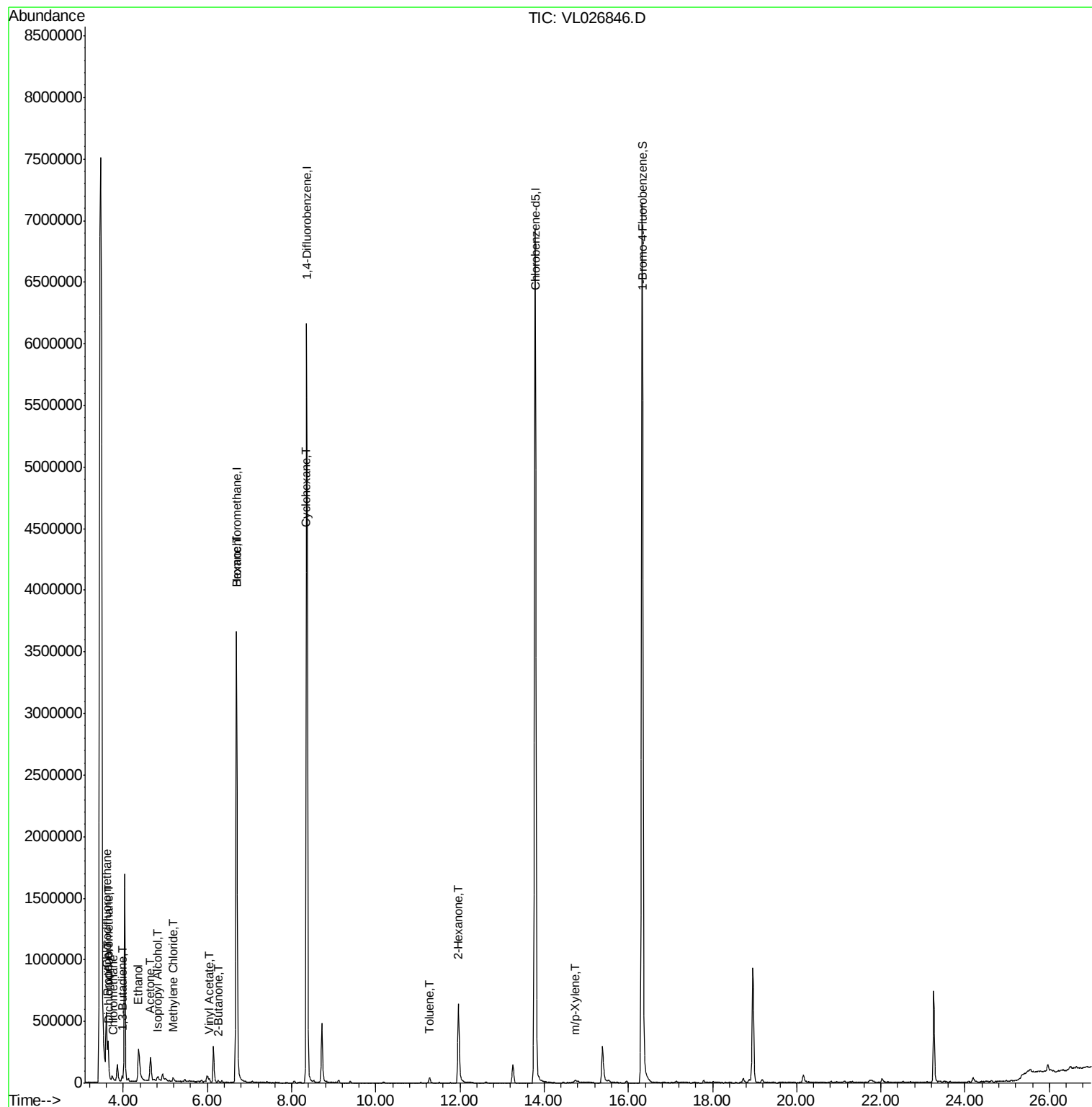
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.67	85	22462	0.05	ppbv	98
3) Chlorodifluoromethane	3.60	51	588611	1.89	ppbv	97
4) Chloromethane	3.78	50	7353	0.06	ppbv	93
9) Propene	3.64	41	77351	0.92	ppbv #	69
13) Ethanol	4.36	45	479412	33.18	ppbv	98
15) Acetone	4.65	43	182684	0.69	ppbv #	59
16) 1,3-Butadiene	3.97	39	7628	0.07	ppbv #	3
19) Isopropyl Alcohol	4.82	45	55752	0.59	ppbv #	1
20) Methylene Chloride	5.18	84	16320	0.12	ppbv	90
23) Vinyl Acetate	6.04	43	21027	0.06	ppbv #	59
26) Hexane	6.70	57	14349	0.06	ppbv	83
30) Cyclohexane	8.34	84	12881	0.07	ppbv #	1
34) 2-Butanone	6.26	43	16285	0.06	ppbv #	70
51) 2-Hexanone	11.96	43	161726	0.58	ppbv #	27
53) Toluene	11.27	91	43566	0.08	ppbv	99
59) m/p-Xylene	14.73	91	24236	0.04	ppbv	96

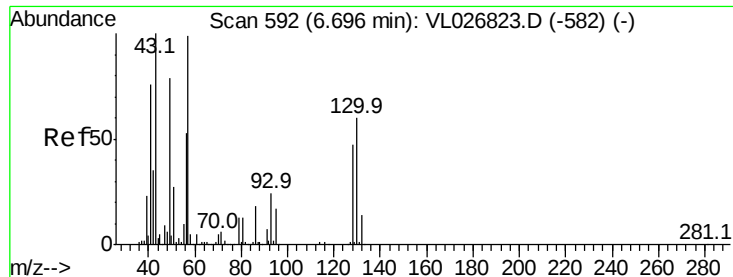
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

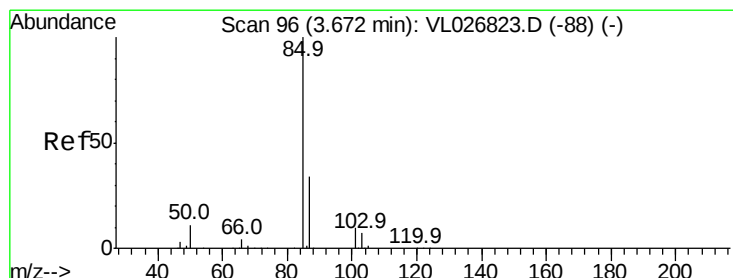
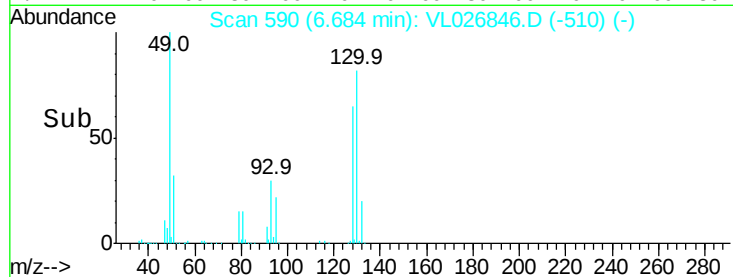
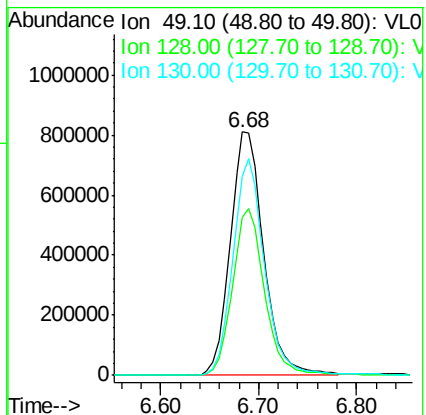
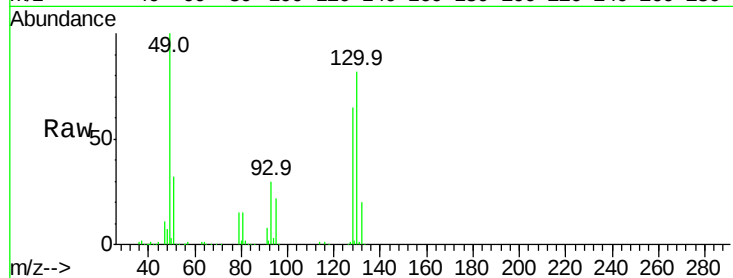
Tgt Ion: 49 Resp: 1916780

Ion Ratio Lower Upper

49 100

128 66.7 29.7 89.1

130 85.7 38.3 114.8



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.67 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL026846.D

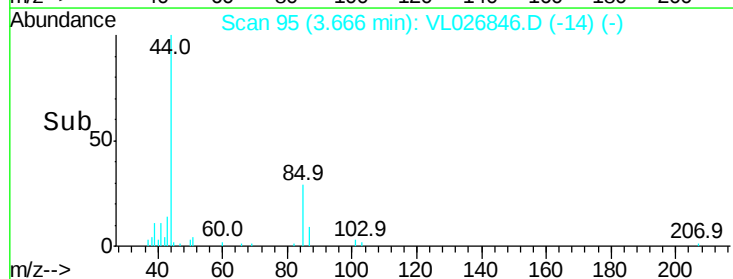
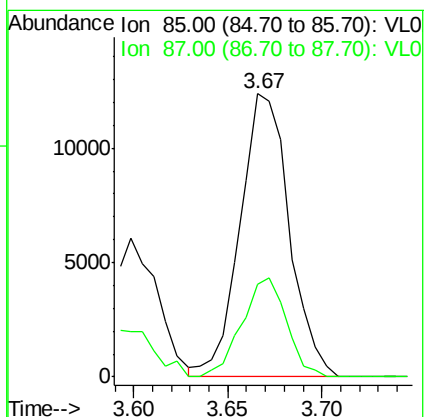
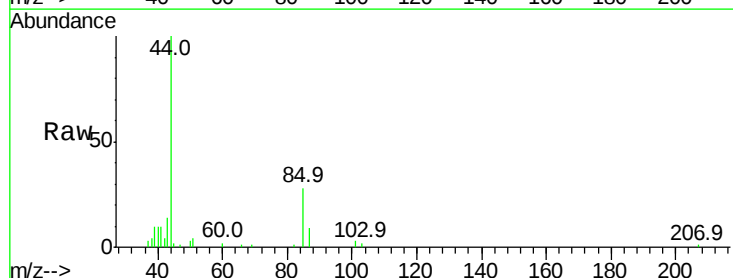
Acq: 10 Feb 2016 8:52

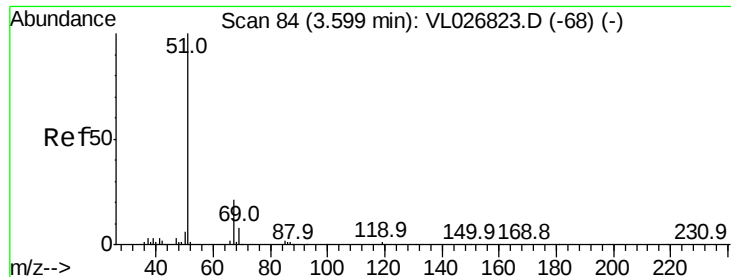
Tgt Ion: 85 Resp: 22462

Ion Ratio Lower Upper

85 100

87 32.7 27.3 40.9





#3

Chlorodifluoromethane

Concen: 1.89 ppbv

RT: 3.60 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

ClientSampleId :

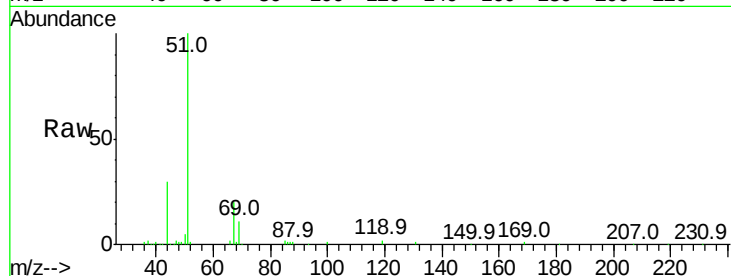
IA-2DL

Tgt Ion: 51 Resp: 588611

Ion Ratio Lower Upper

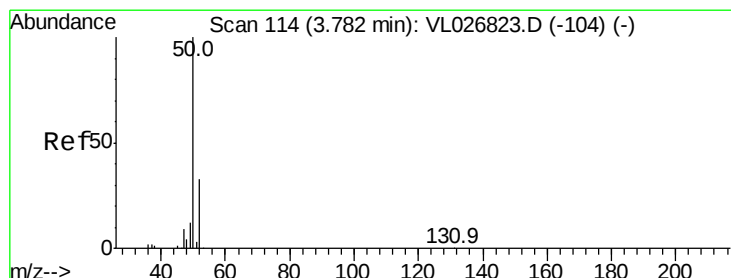
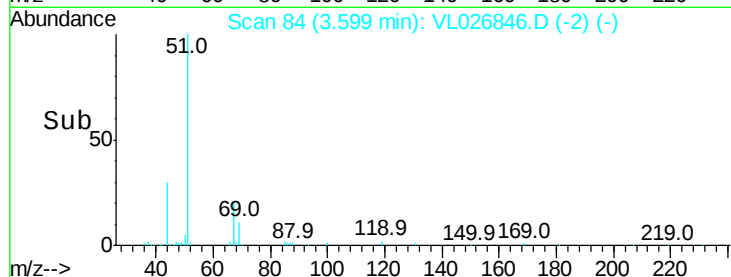
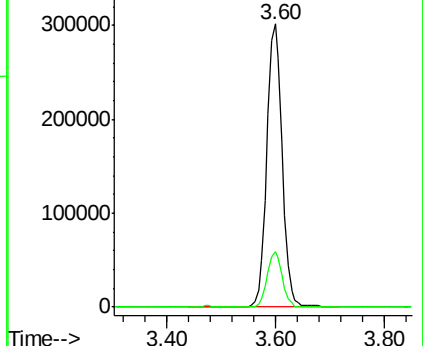
51 100

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



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.78 min Scan# 113

Delta R.T. -0.01 min

Lab File: VL026846.D

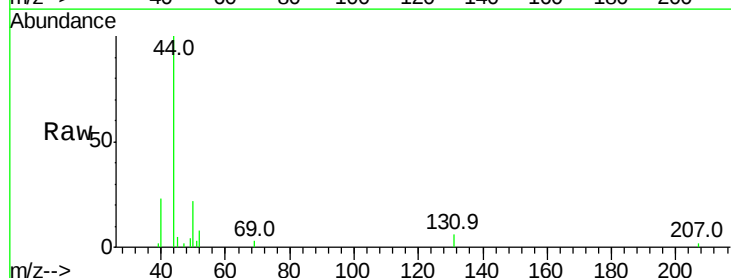
Acq: 10 Feb 2016 8:52

Tgt Ion: 50 Resp: 7353

Ion Ratio Lower Upper

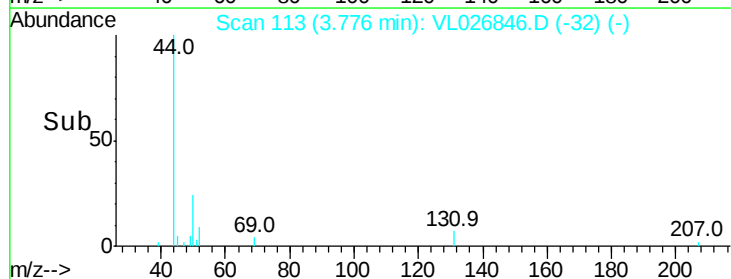
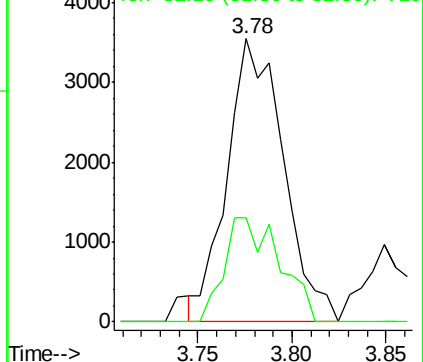
50 100

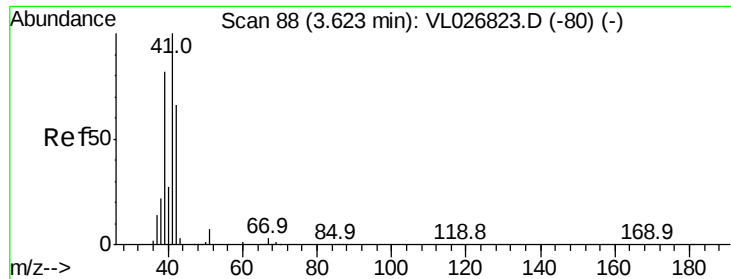
52 36.6 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.92 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

ClientSampleId :

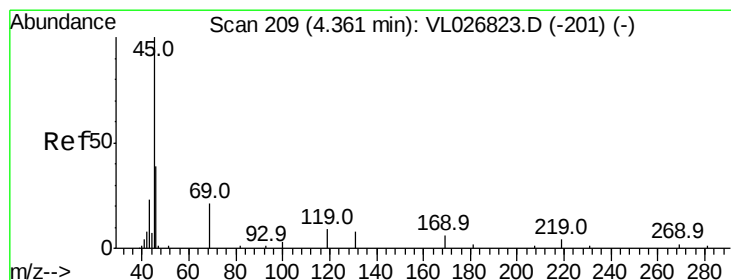
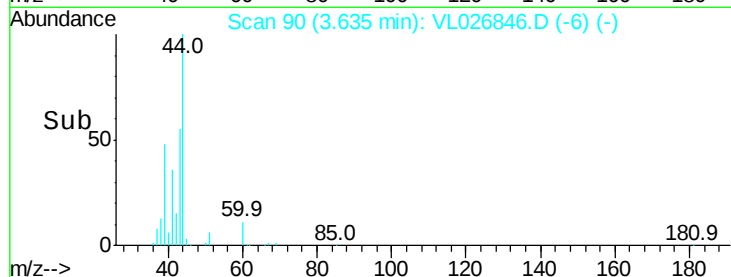
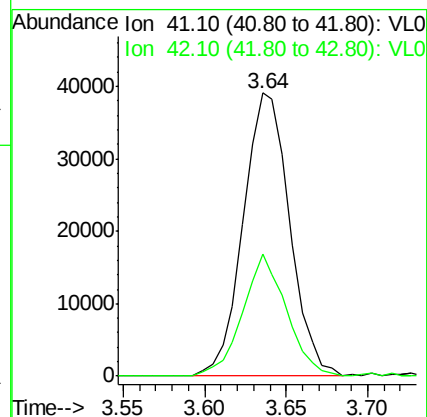
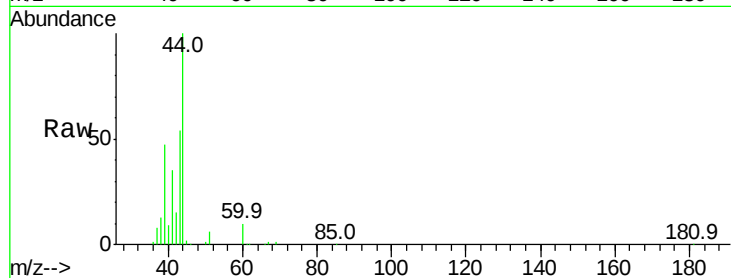
IA-2DL

Tgt Ion: 41 Resp: 77351

Ion Ratio Lower Upper

41 100

42 41.2 52.8 79.2#



#13

Ethanol

Concen: 33.18 ppbv

RT: 4.36 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL026846.D

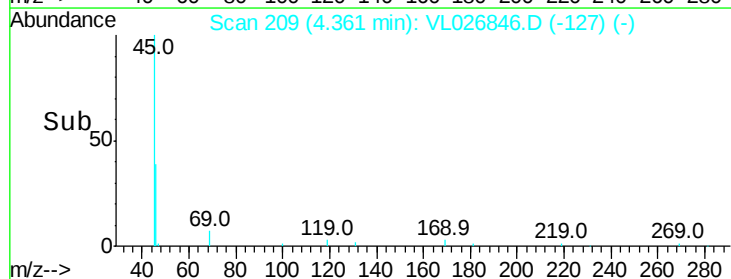
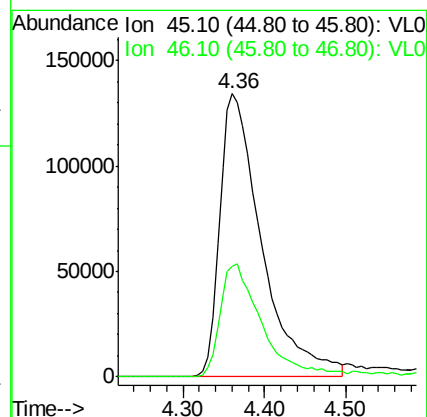
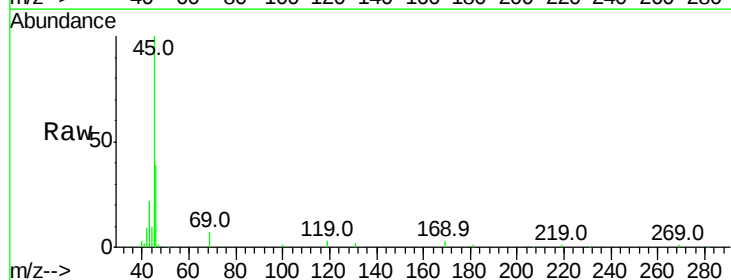
Acq: 10 Feb 2016 8:52

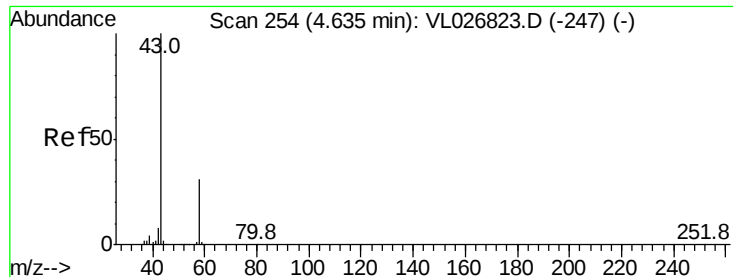
Tgt Ion: 45 Resp: 479412

Ion Ratio Lower Upper

45 100

46 41.1 15.8 63.4





#15

Acetone

Concen: 0.69 ppbv

RT: 4.65 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

ClientSampleId :

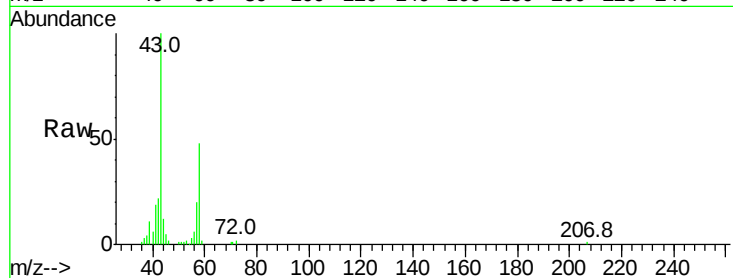
IA-2DL

Tgt Ion: 43 Resp: 182684

Ion Ratio Lower Upper

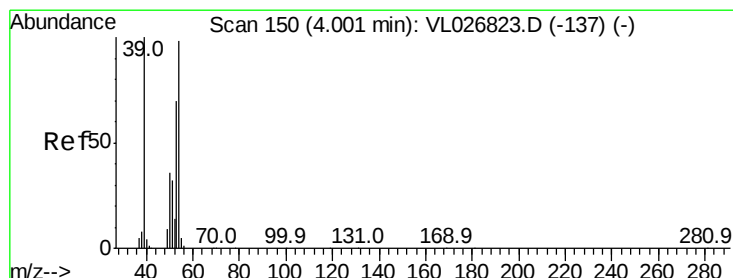
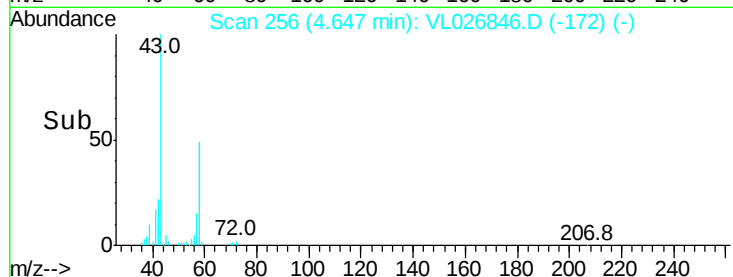
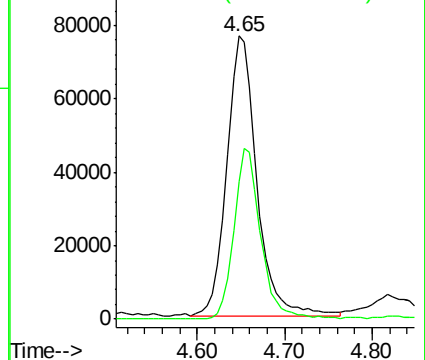
43 100

58 54.1 25.2 37.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.07 ppbv

RT: 3.97 min Scan# 145

Delta R.T. -0.03 min

Lab File: VL026846.D

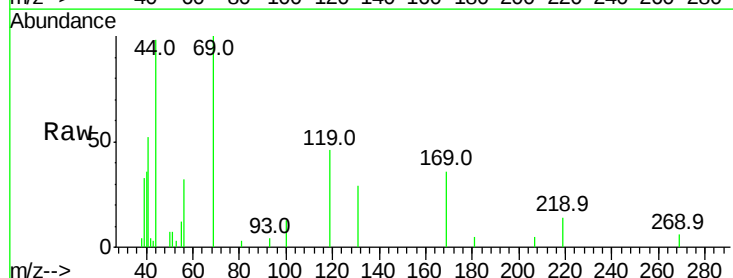
Acq: 10 Feb 2016 8:52

Tgt Ion: 39 Resp: 7628

Ion Ratio Lower Upper

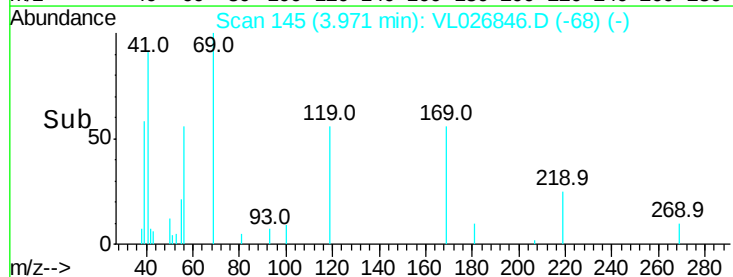
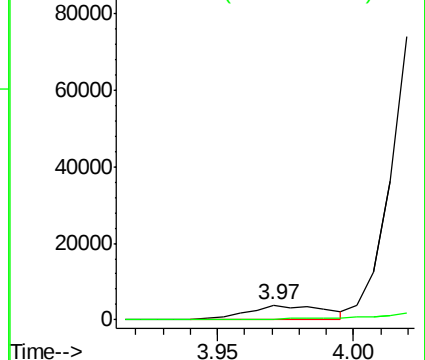
39 100

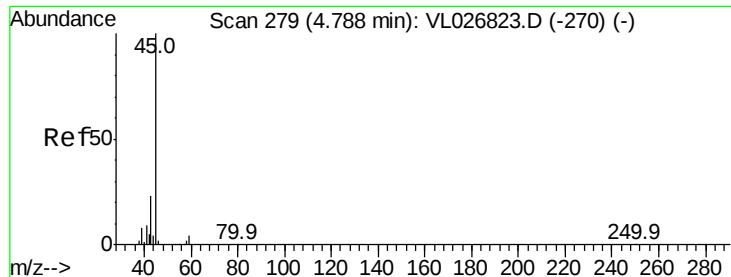
54 0.0 74.7 112.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.59 ppbv

RT: 4.82 min Scan# 284

Delta R.T. 0.03 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

ClientSampleId :

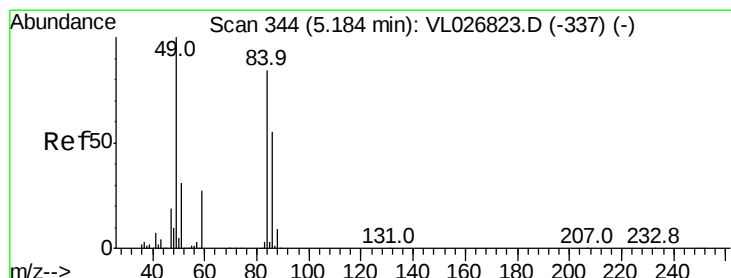
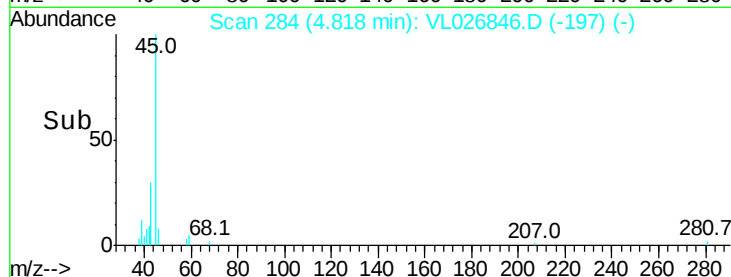
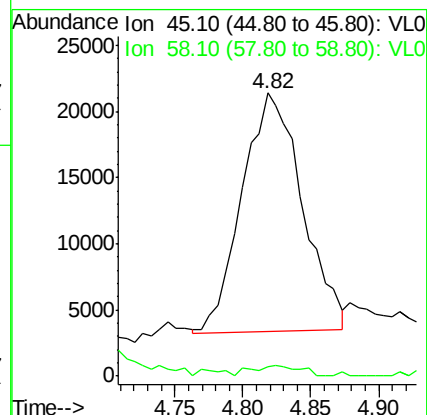
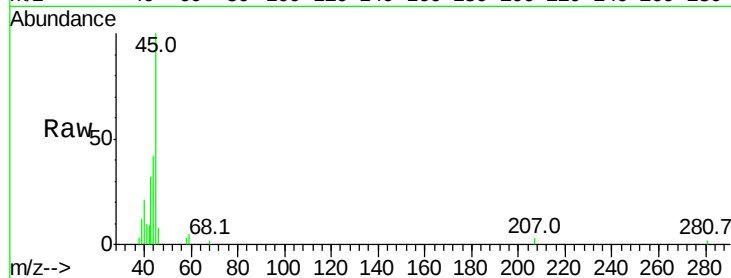
IA-2DL

Tgt Ion: 45 Resp: 55752

Ion Ratio Lower Upper

45 100

58 178.7 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: VL026846.D

Acq: 10 Feb 2016 8:52

Tgt Ion: 84 Resp: 16320

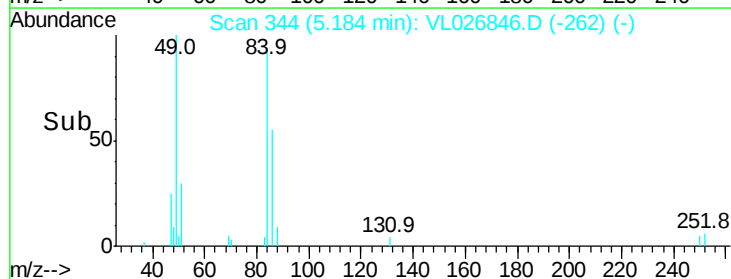
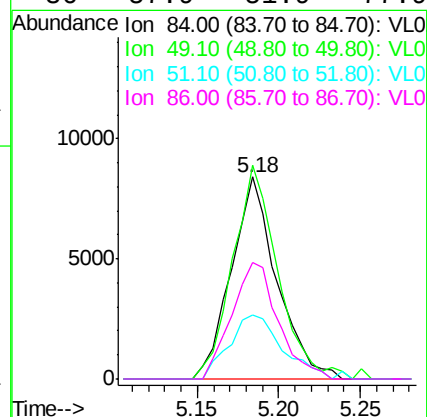
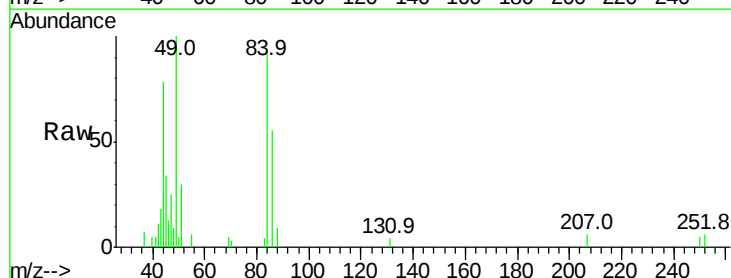
Ion Ratio Lower Upper

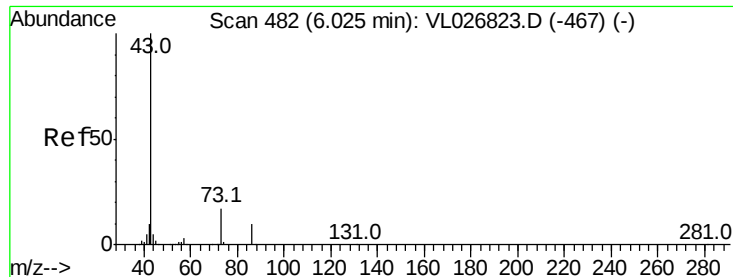
84 100

49 105.9 94.9 142.3

51 31.9 29.5 44.3

86 57.9 51.9 77.9





#23

Vinyl Acetate

Concen: 0.06 ppbv

RT: 6.04 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

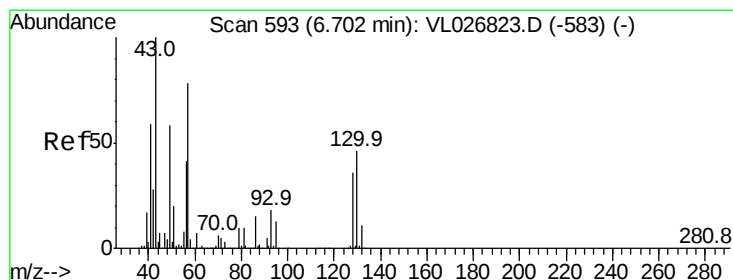
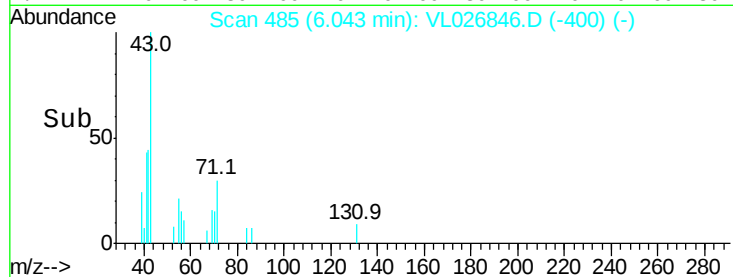
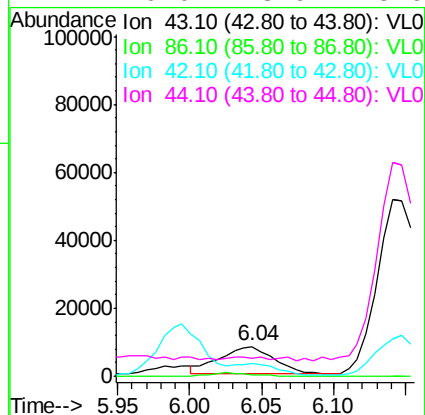
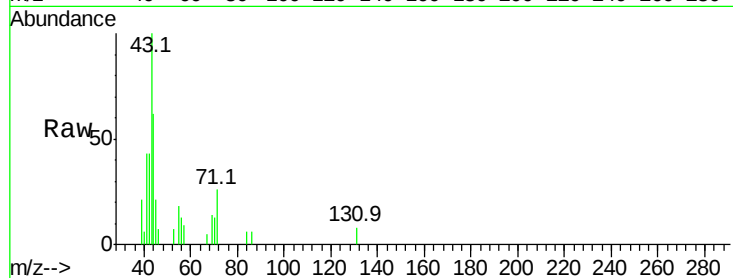
MSVOA_L

ClientSampleId :

IA-2DL

Tgt Ion: 43 Resp: 21027

Ion	Ratio	Lower	Upper
43	100		
86	6.7	7.7	11.5#
42	41.3	7.8	11.8#
44	0.0	3.9	5.9#



#26

Hexane

Concen: 0.06 ppbv

RT: 6.70 min Scan# 592

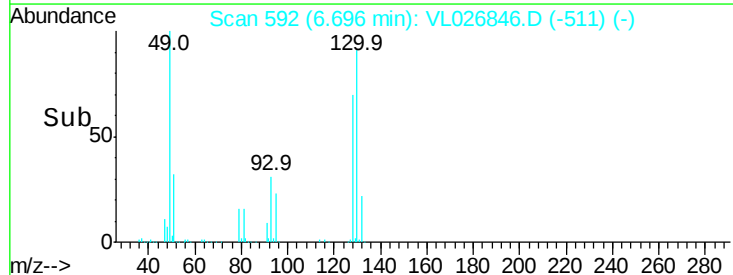
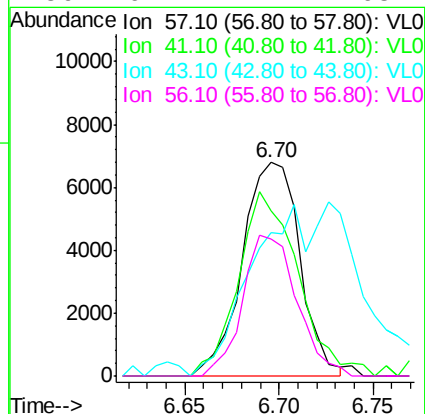
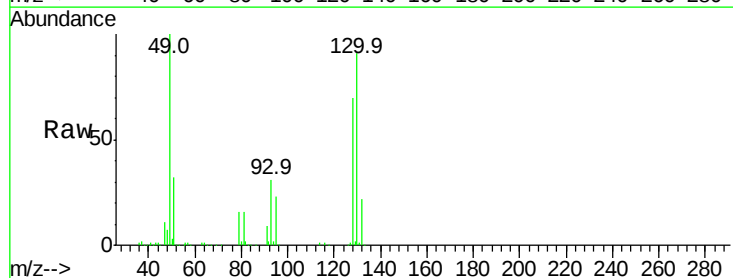
Delta R.T. -0.01 min

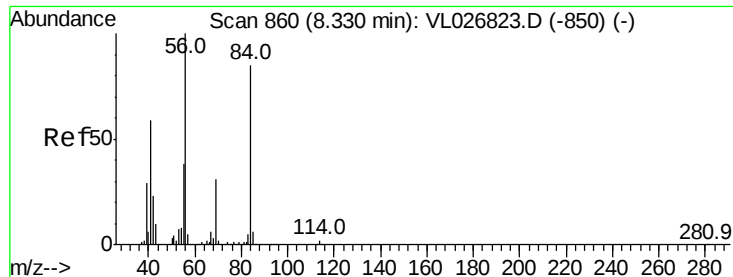
Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Tgt Ion: 57 Resp: 14349

Ion	Ratio	Lower	Upper
57	100		
41	93.3	63.3	94.9
43	163.7	151.4	227.2
56	62.4	42.2	63.2

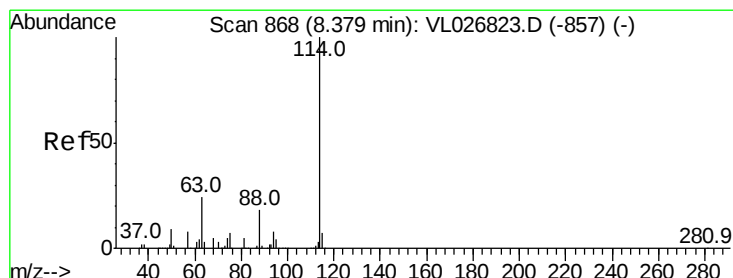
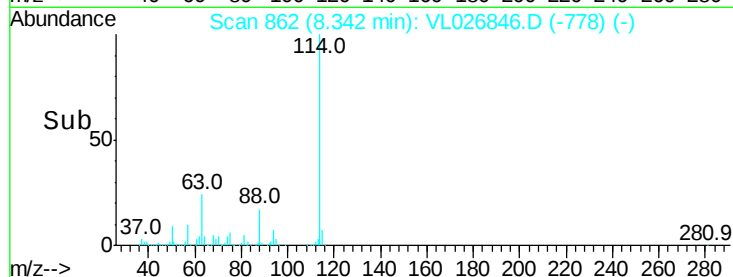
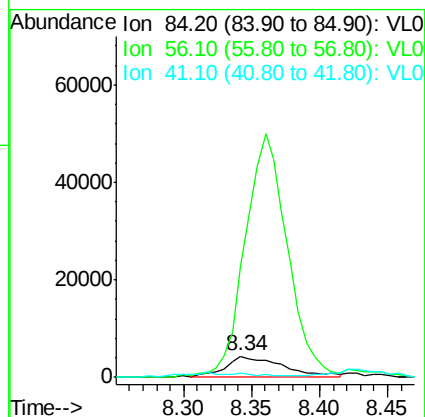
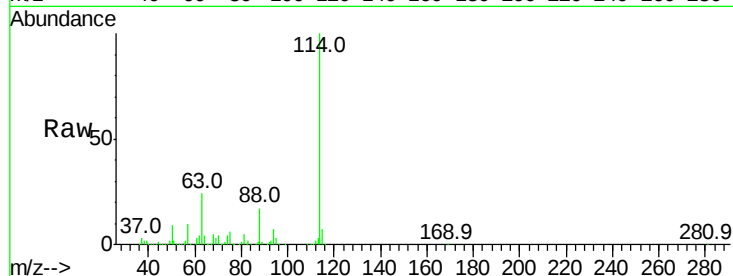




#30
Cyclohexane
Concen: 0.07 ppbv
RT: 8.34 min Scan# 862
Delta R.T. 0.01 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

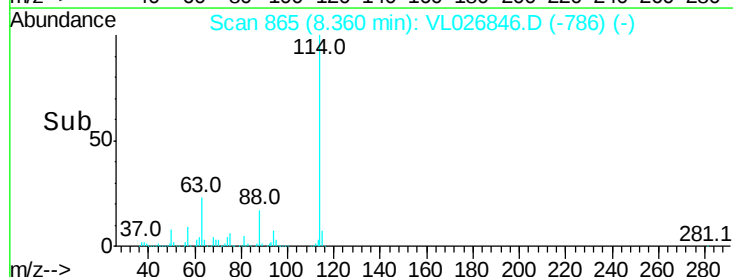
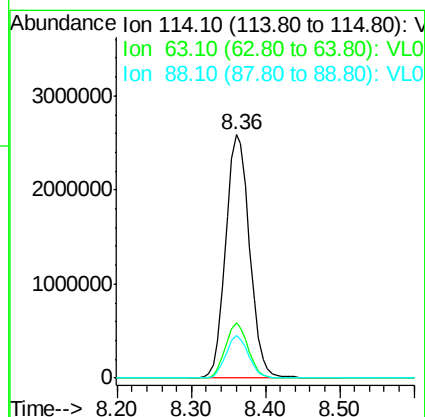
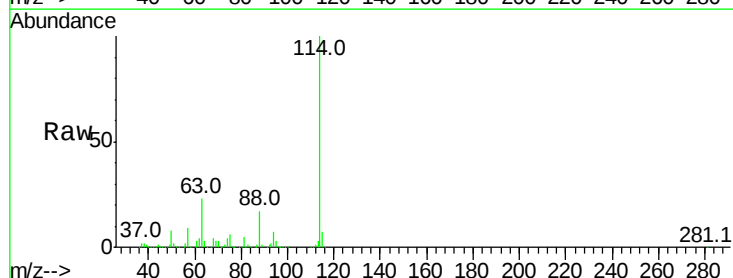
Instrument :
MSVOA_L
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IA-2DL

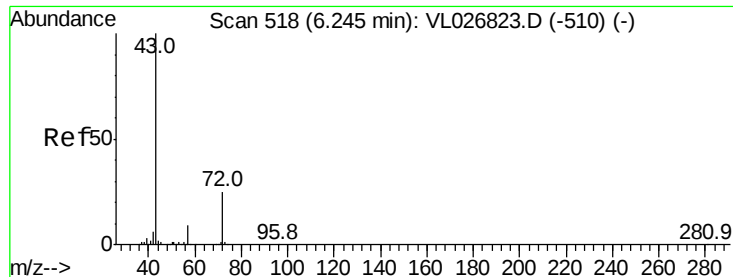
Tgt Ion: 84 Resp: 12881
Ion Ratio Lower Upper
84 100
56 873.8 99.4 149.2#
41 29.5 56.7 85.1#



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.36 min Scan# 865
Delta R.T. -0.02 min
Lab File: VL026846.D
Acq: 10 Feb 2016 8:52

Tgt Ion: 114 Resp: 5801895
Ion Ratio Lower Upper
114 100
63 21.9 19.7 29.5
88 16.6 13.8 20.6

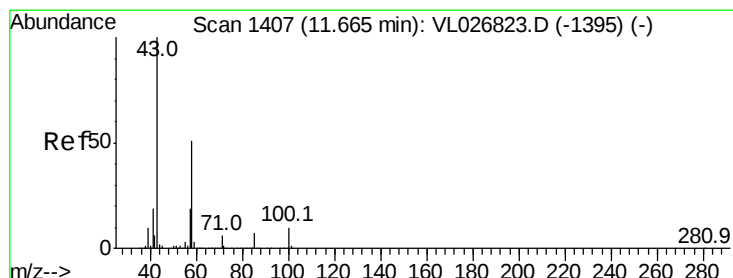
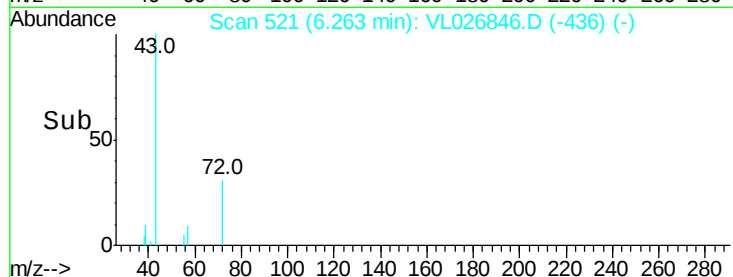
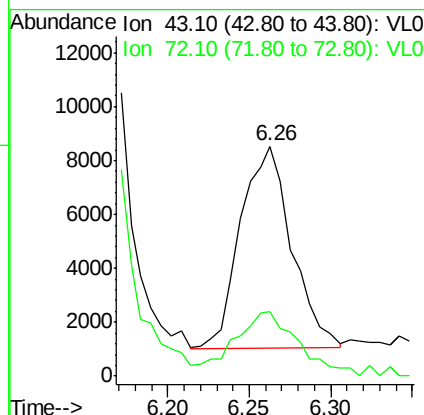
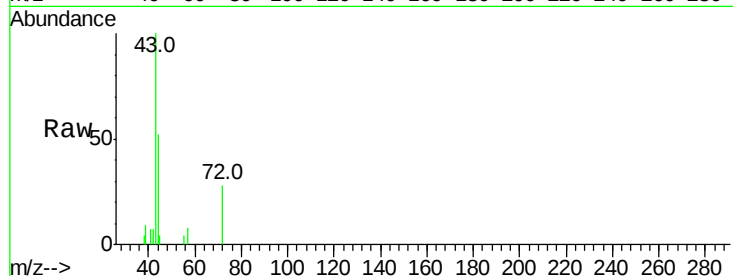




#34
 2-Butanone
 Concen: 0.06 ppbv
 RT: 6.26 min Scan# 521
 Delta R.T. 0.02 min
 Lab File: VL026846.D
 Acq: 10 Feb 2016 8:52

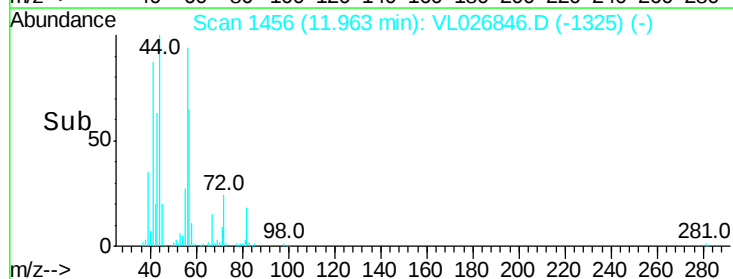
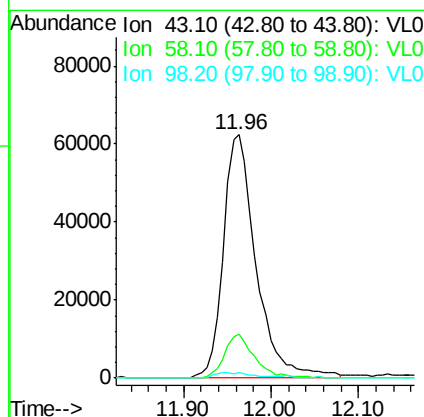
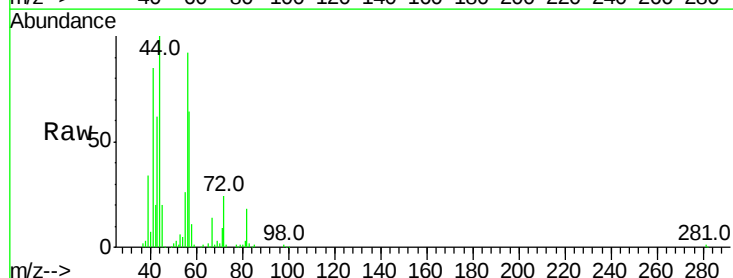
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

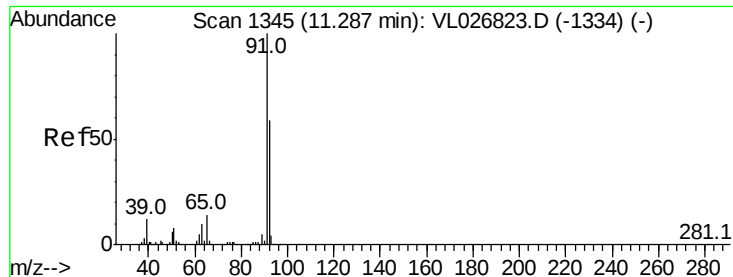
Tgt Ion: 43 Resp: 16285
 Ion Ratio Lower Upper
 43 100
 72 39.6 19.8 29.8#



#51
 2-Hexanone
 Concen: 0.58 ppbv
 RT: 11.96 min Scan# 1456
 Delta R.T. 0.30 min
 Lab File: VL026846.D
 Acq: 10 Feb 2016 8:52

Tgt Ion: 43 Resp: 161726
 Ion Ratio Lower Upper
 43 100
 58 0.0 40.4 60.6#
 98 0.0 0.2 0.4#





#53

Toluene

Concen: 0.08 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. -0.01 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

ClientSampleId :

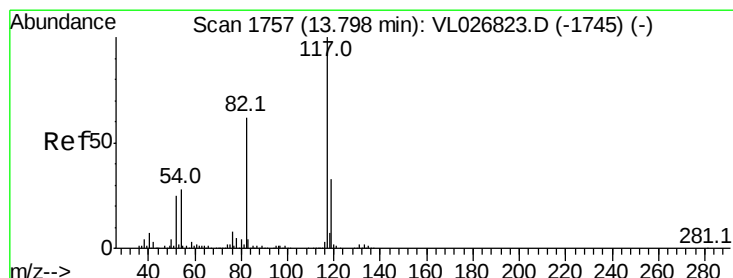
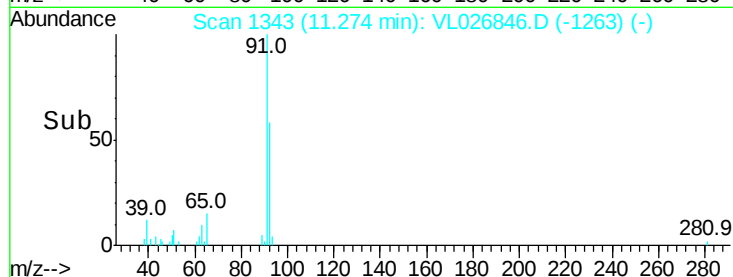
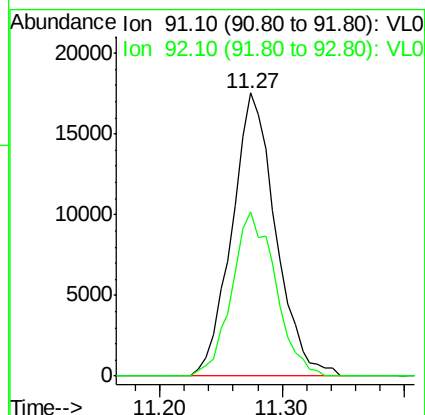
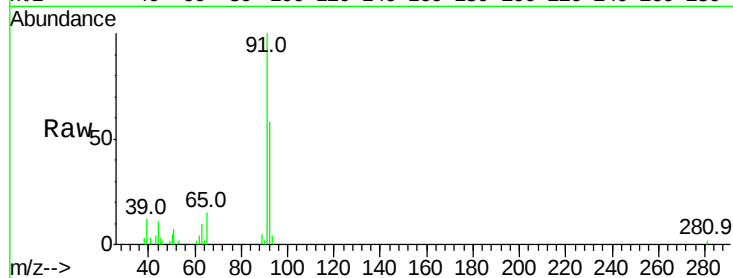
IA-2DL

Tgt Ion: 91 Resp: 43566

Ion Ratio Lower Upper

91 100

92 58.0 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: VL026846.D

Acq: 10 Feb 2016 8:52

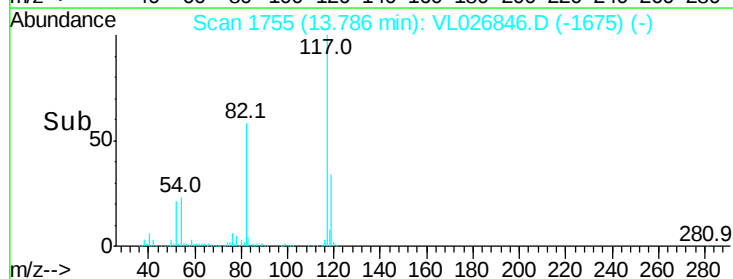
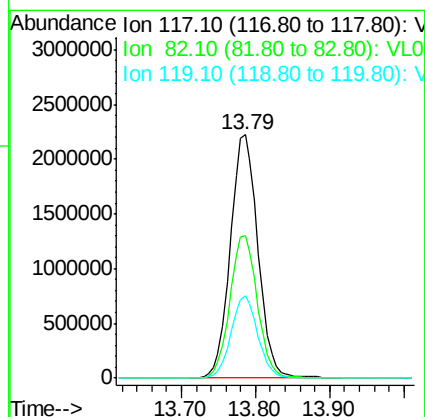
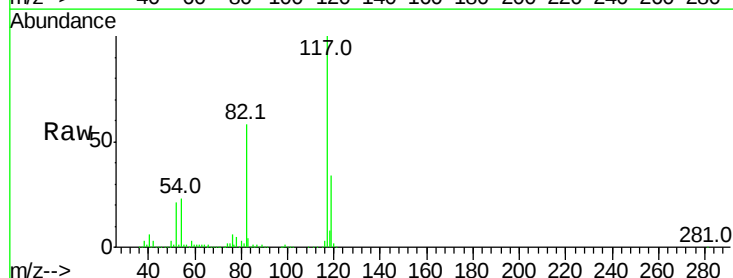
Tgt Ion: 117 Resp: 5765403

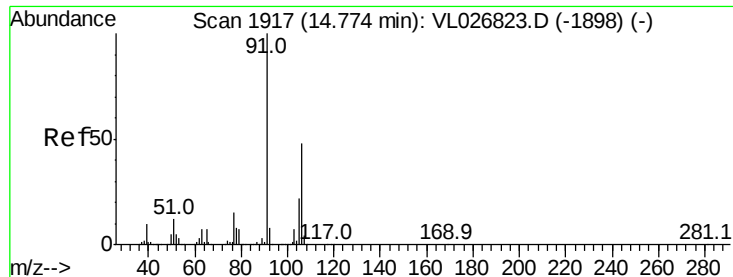
Ion Ratio Lower Upper

117 100

82 59.0 51.9 77.9

119 33.1 48.5 72.7#





#59

m/p-Xylene

Concen: 0.04 ppbv

RT: 14.73 min Scan# 1910

Delta R.T. -0.04 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Instrument :

MSVOA_L

ClientSampled :

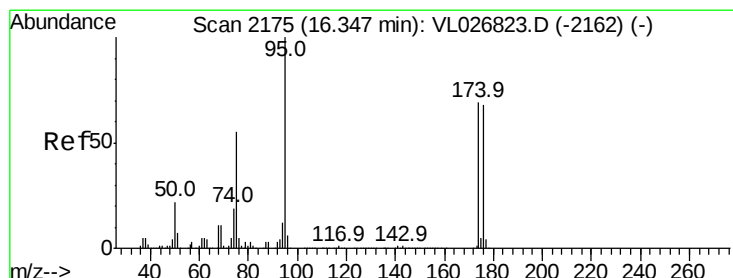
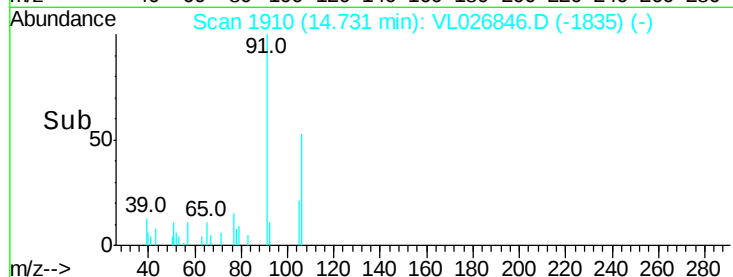
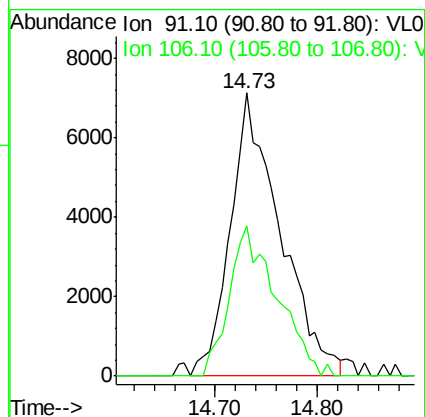
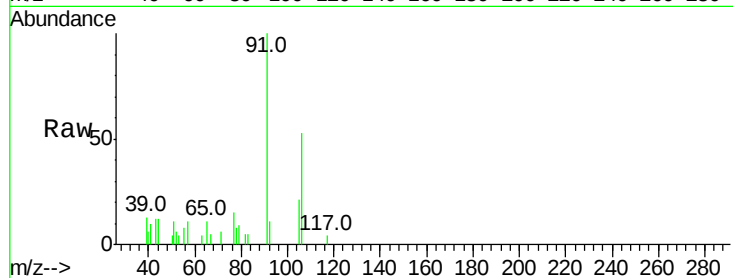
IA-2DL

Tgt Ion: 91 Resp: 24236

Ion Ratio Lower Upper

91 100

106 50.4 38.2 57.2



#68

1-Bromo-4-Fluorobenzene

Concen: 9.95 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. -0.02 min

Lab File: VL026846.D

Acq: 10 Feb 2016 8:52

Tgt Ion: 95 Resp: 4120209

Ion Ratio Lower Upper

95 100

174 76.3 55.6 83.4

175 5.4 3.9 5.9

