

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026676.D
 Acq On : 12 Jan 2016 15:58
 Operator : SY/AP
 Sample : H1064-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Quant Time: Jan 13 07:44:56 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	6.68	49	750007	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	8.35	114	2284655	10.00	ppbv	0.04
55) Chlorobenzene-d5	13.77	117	3050849	10.00	ppbv	0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.32	95	2555117	10.51	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

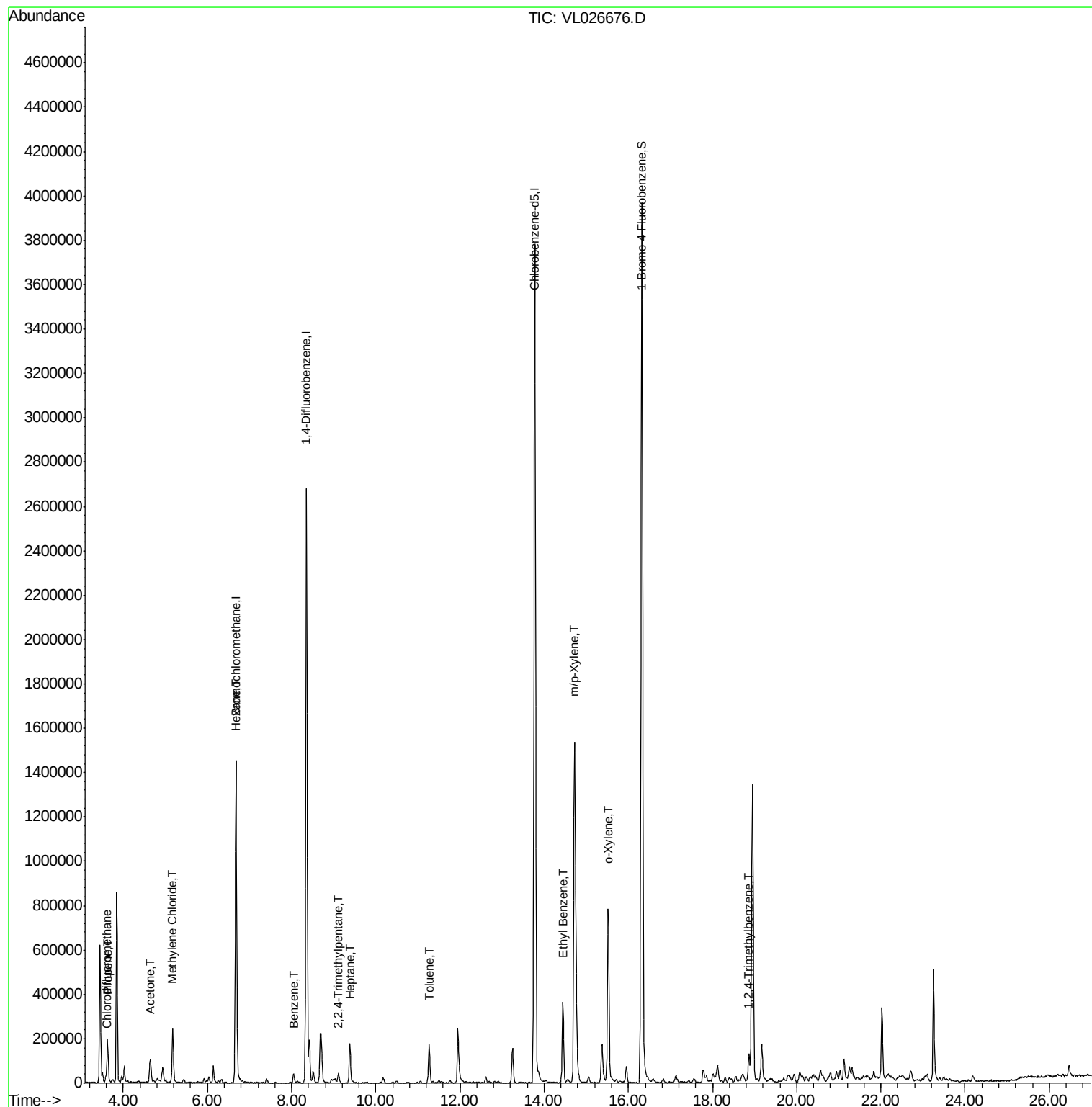
Target Compounds						Ovalue
3) Chlorodifluoromethane	3.59	51	27449	0.27	ppbv	93
9) Propene	3.63	41	55531	1.55	ppbv #	71
10) Heptane	9.38	43	66268	0.50	ppbv	100
15) Acetone	4.65	43	141948	1.15	ppbv	91
20) Methylene Chloride	5.17	84	114942	2.27	ppbv	97
26) Hexane	6.69	57	16599	0.17	ppbv #	46
36) Benzene	8.06	78	41652	0.18	ppbv	95
44) 2,2,4-Trimethylpentane	9.11	57	23025	0.06	ppbv #	60
53) Toluene	11.27	91	156998	0.47	ppbv	100
58) Ethyl Benzene	14.44	91	379482	0.70	ppbv	99
59) m/p-Xylene	14.72	91	1898427	4.23	ppbv	98
60) o-Xylene	15.52	91	755651	1.56	ppbv	97
74) 1,2,4-Trimethylbenzene	18.86	105	100869	0.18	ppbv #	75

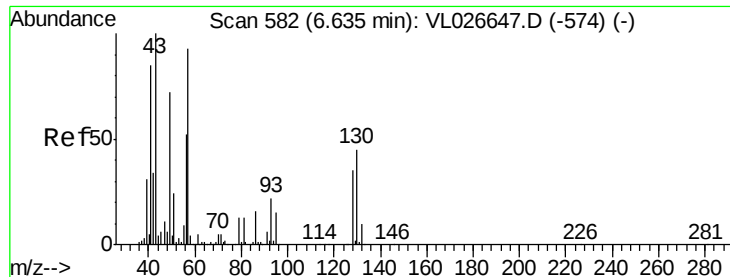
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 6.68 min Scan# 589

Delta R.T. 0.04 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

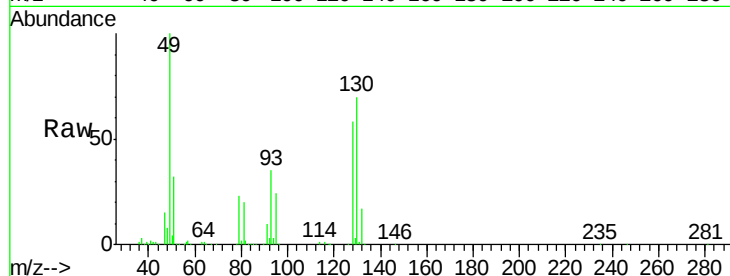
Tot Ion: 49 Resp: 750007

Ion Ratio Lower Upper

49 100

128 56.8 25.9 77.7

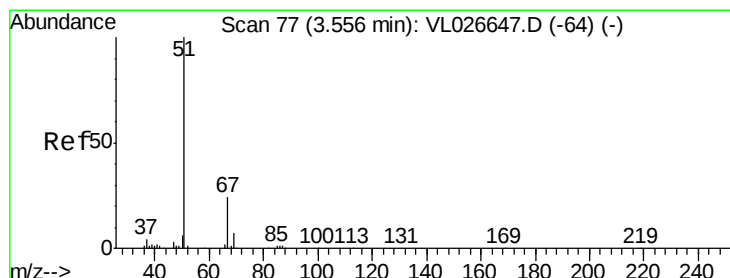
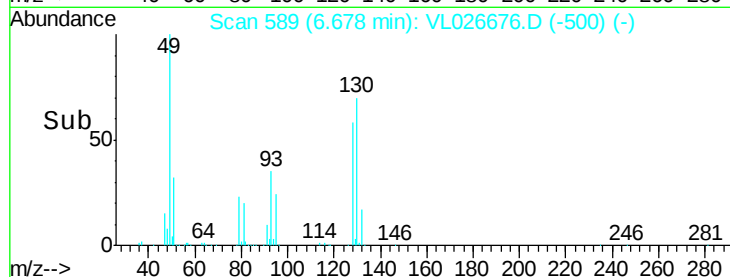
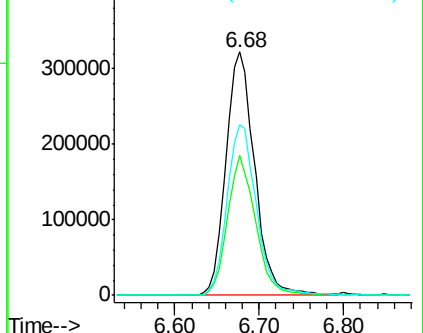
130 72.3 33.6 100.8



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



#3

Chlorodifluoromethane

Concen: 0.27 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.04 min

Lab File: VL026676.D

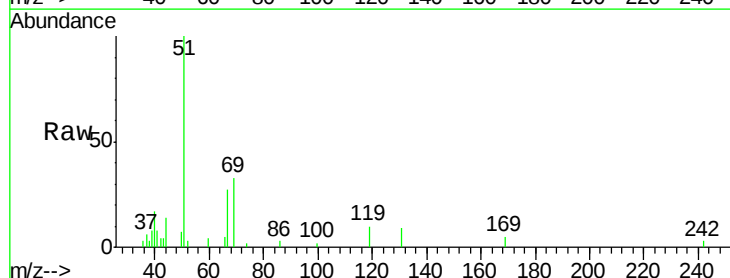
Acq: 12 Jan 2016 15:58

Tgt Ion: 51 Resp: 27449

Ion Ratio Lower Upper

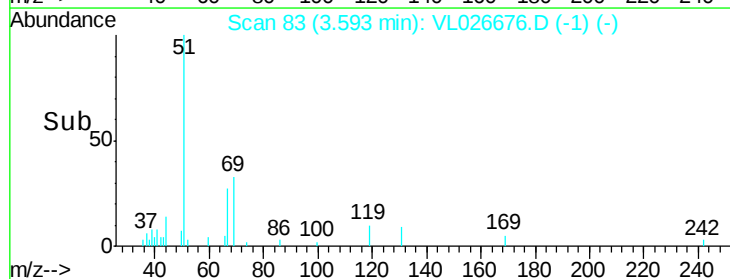
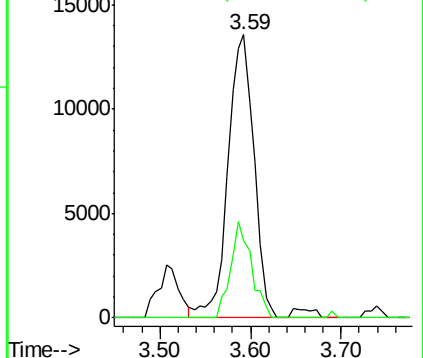
51 100

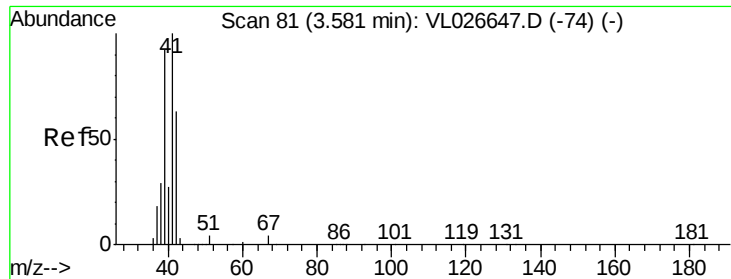
67 26.9 18.6 28.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.55 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.05 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

Instrument :

MSVOA_L

ClientSampleId :

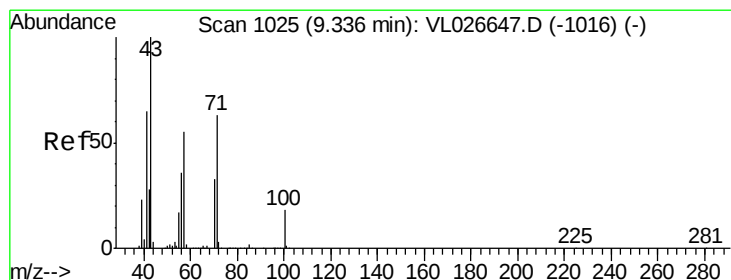
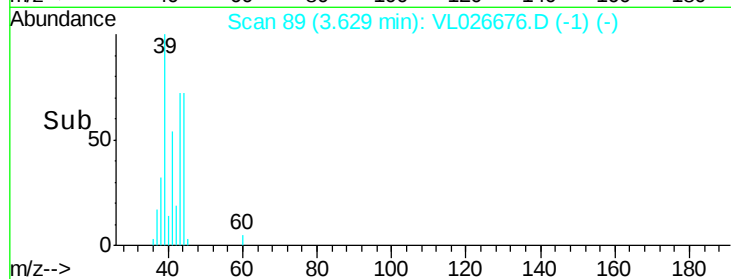
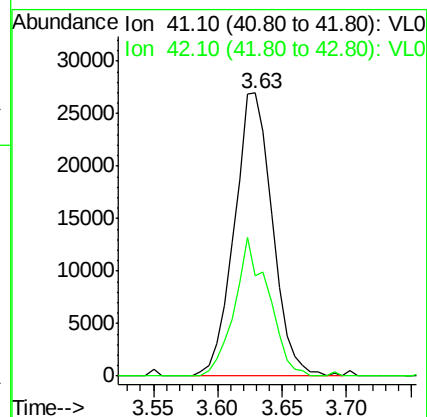
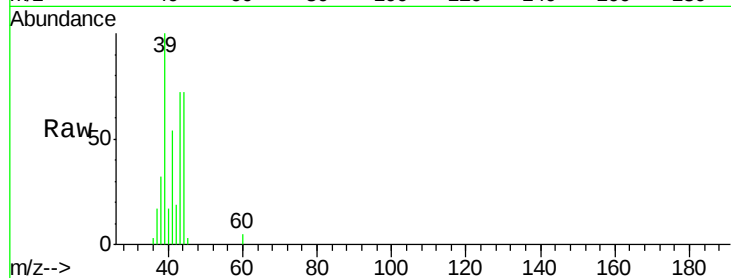
SS-1DL

Tot Ion: 41 Resp: 55531

Ion Ratio Lower Upper

41 100

42 43.8 53.6 80.4#



#10

Heptane

Concen: 0.50 ppbv

RT: 9.38 min Scan# 1033

Delta R.T. 0.05 min

Lab File: VL026676.D

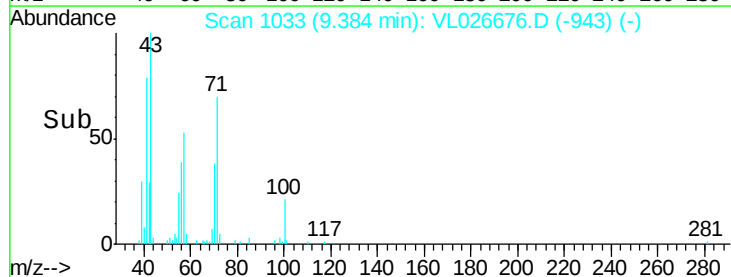
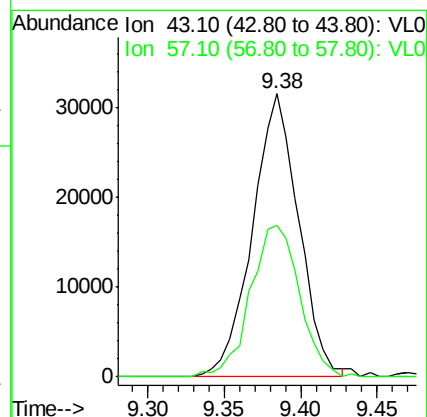
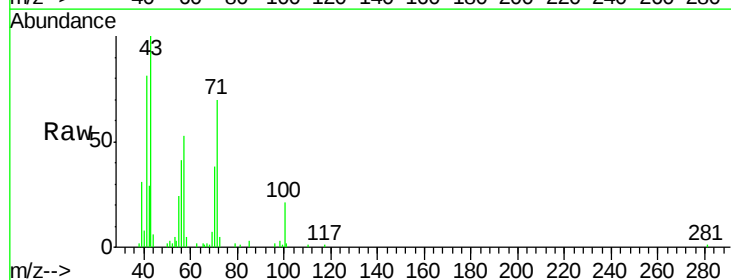
Acq: 12 Jan 2016 15:58

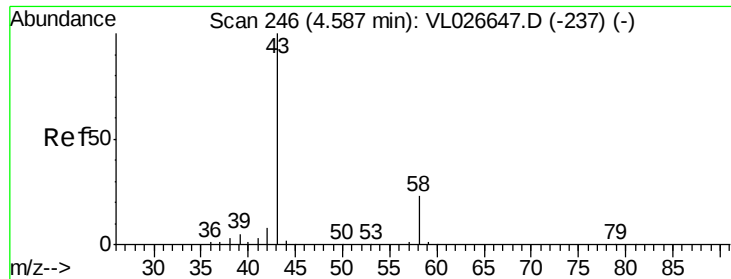
Tgt Ion: 43 Resp: 66268

Ion Ratio Lower Upper

43 100

57 57.0 45.8 68.6





#15

Acetone

Concen: 1.15 ppbv

RT: 4.65 min Scan# 256

Delta R.T. 0.06 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

Instrument :

MSVOA_L

ClientSampleId :

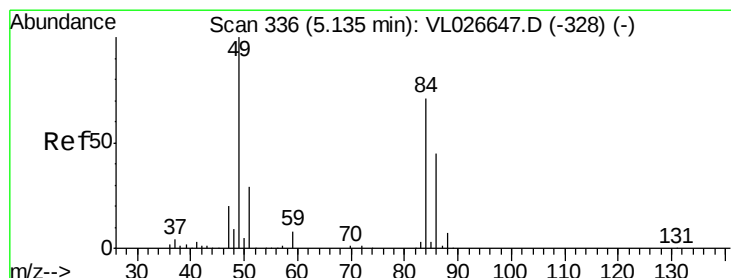
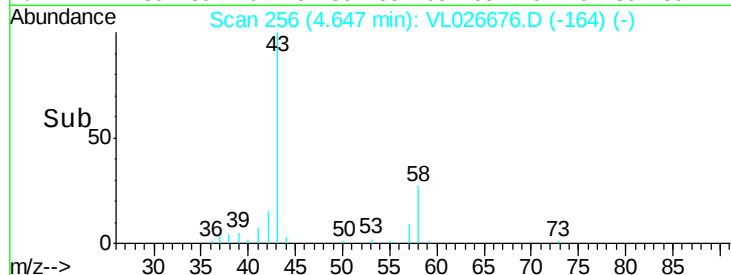
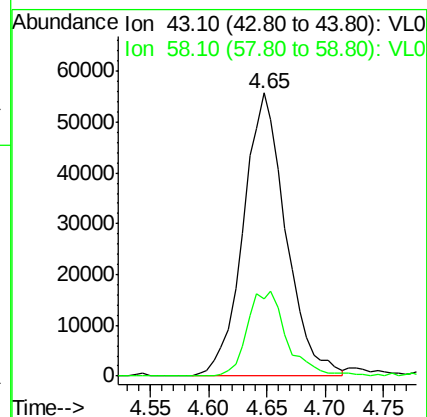
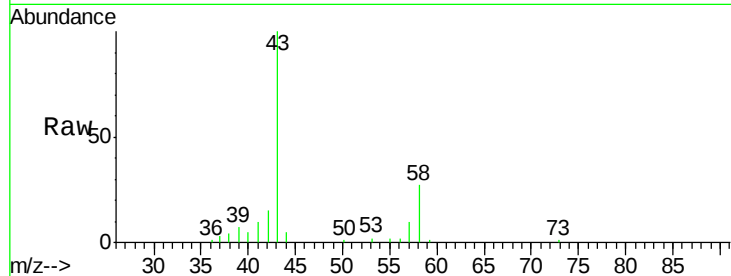
SS-1DL

Tot Ion: 43 Resp: 141948

Ion Ratio Lower Upper

43 100

58 28.2 19.2 28.8



#20

Methylene Chloride

Concen: 2.27 ppbv

RT: 5.17 min Scan# 342

Delta R.T. 0.04 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

Tgt Ion: 84 Resp: 114942

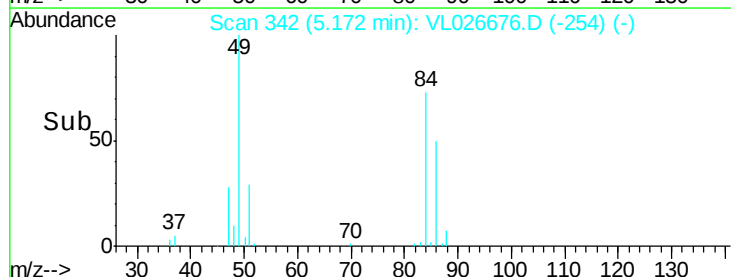
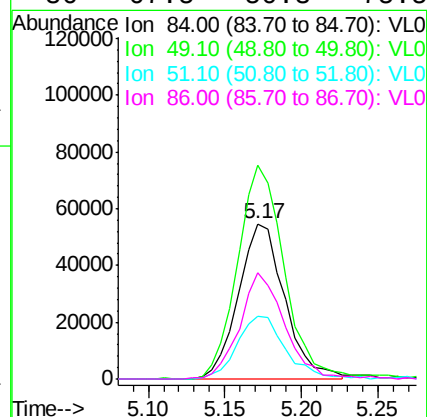
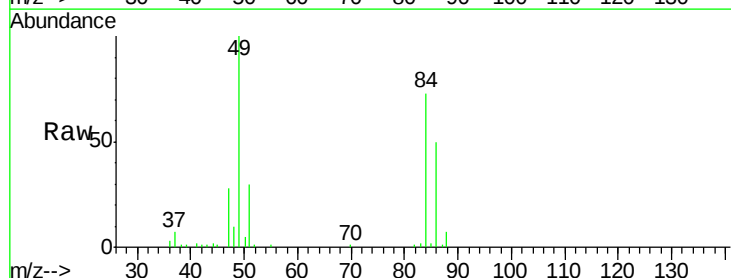
Ion Ratio Lower Upper

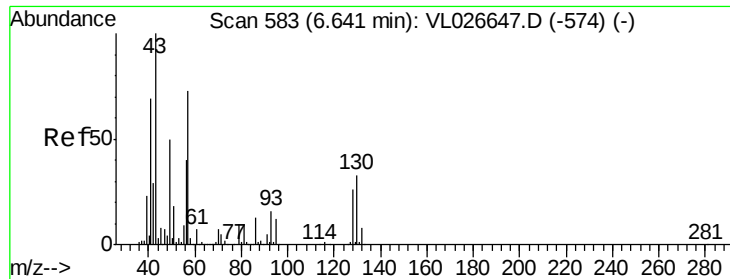
84 100

49 137.5 112.3 168.5

51 40.8 32.5 48.7

86 67.5 50.3 75.5

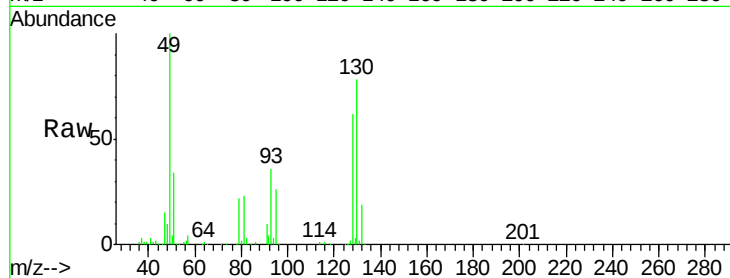




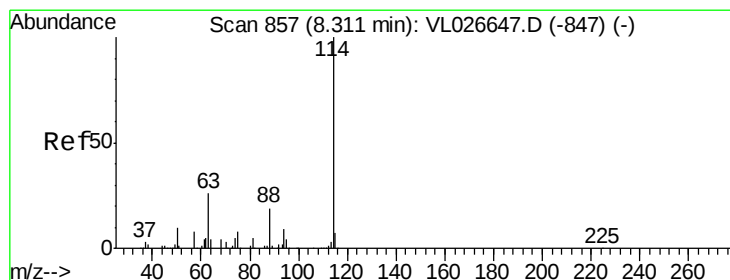
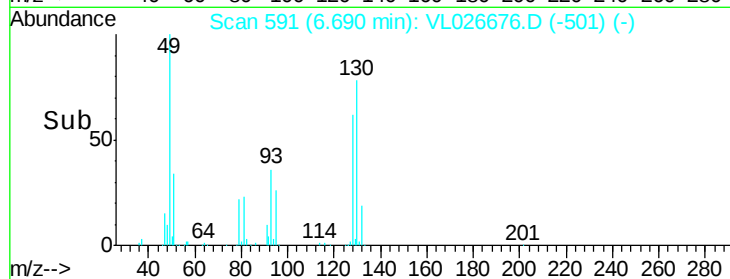
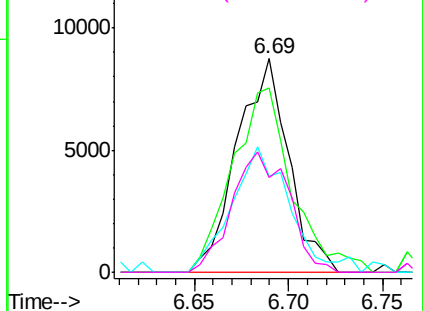
#26
Hexane
Concen: 0.17 ppbv
RT: 6.69 min Scan# 591
Delta R.T. 0.05 min
Lab File: VL026676.D
Acq: 12 Jan 2016 15:58

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

Tot Ion: 57 Resp: 16599
Ion Ratio Lower Upper
57 100
41 99.7 74.8 112.2
43 67.4 161.5 242.3#
56 62.0 44.4 66.6

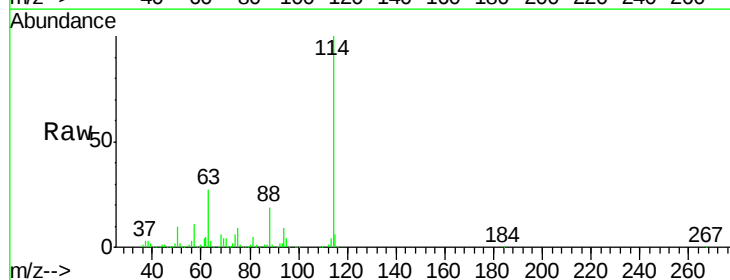


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

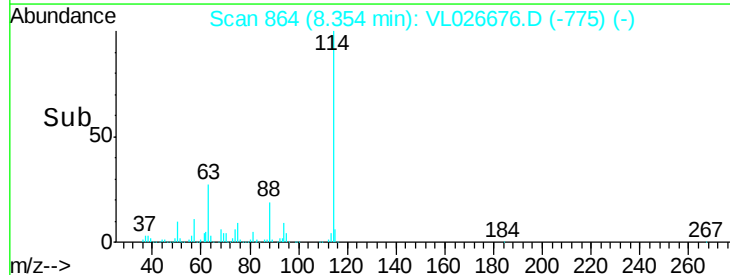
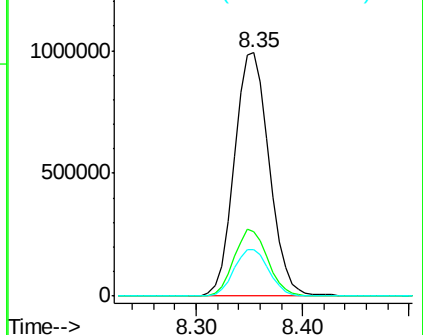


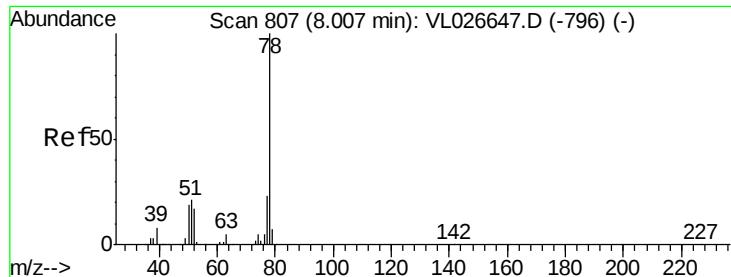
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.35 min Scan# 864
Delta R.T. 0.04 min
Lab File: VL026676.D
Acq: 12 Jan 2016 15:58

Tgt Ion:114 Resp: 2284655
Ion Ratio Lower Upper
114 100
63 26.7 21.7 32.5
88 19.3 15.2 22.8



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 0.18 ppbv

RT: 8.06 min Scan# 815

Delta R.T. 0.05 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

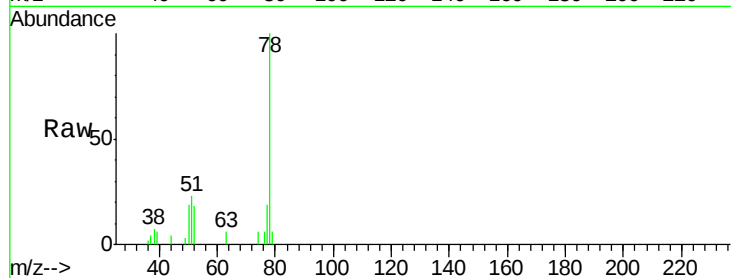
Tot Ion: 78 Resp: 41652

Ion Ratio Lower Upper

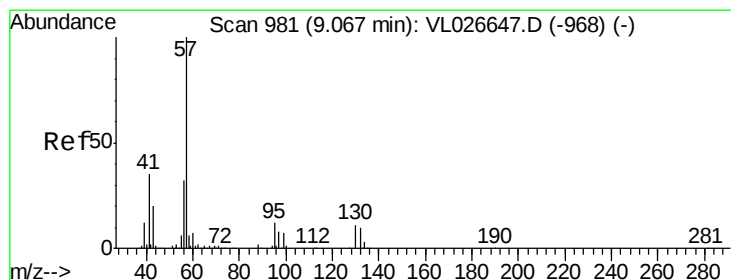
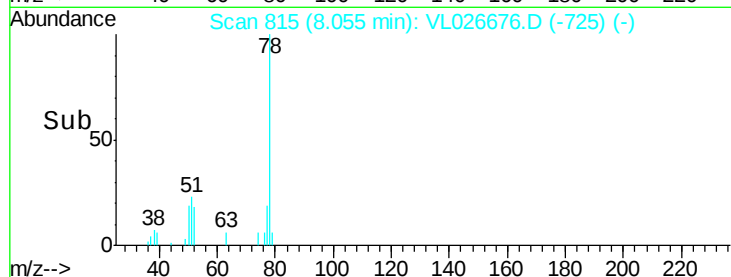
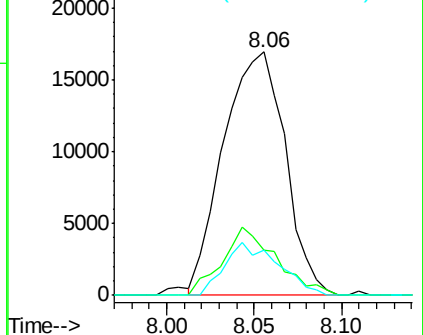
78 100

77 18.7 18.5 27.7

50 18.7 15.4 23.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.06 ppbv

RT: 9.11 min Scan# 988

Delta R.T. 0.04 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

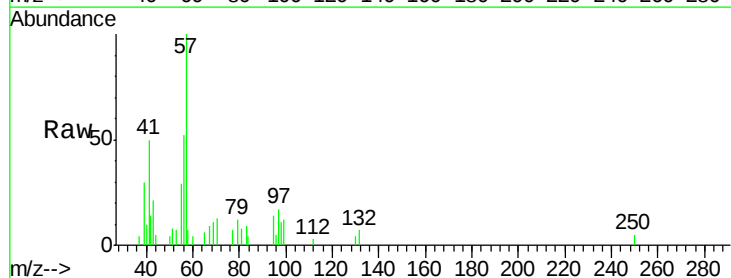
Tgt Ion: 57 Resp: 23025

Ion Ratio Lower Upper

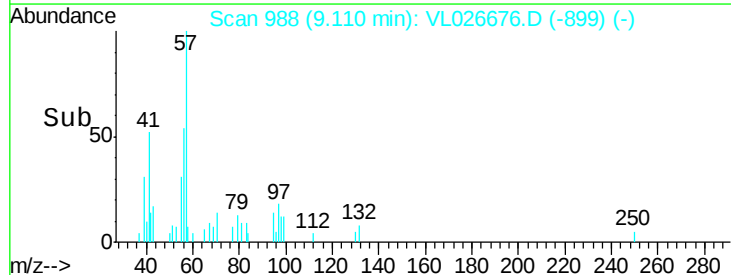
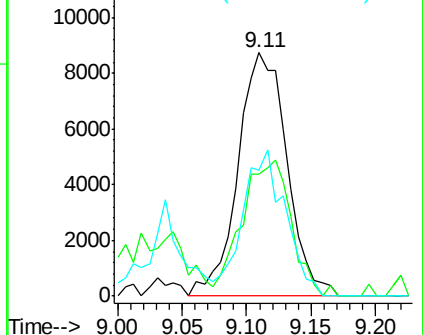
57 100

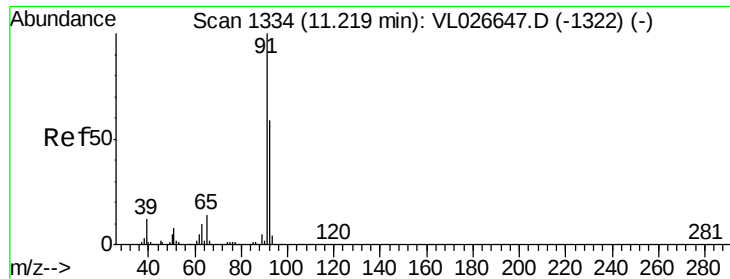
41 57.0 26.9 40.3#

56 52.9 25.4 38.0#



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





#53

Toluene

Concen: 0.47 ppbv

RT: 11.27 min Scan# 1342

Delta R.T. 0.05 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

Instrument :

MSVOA_L

ClientSampleId :

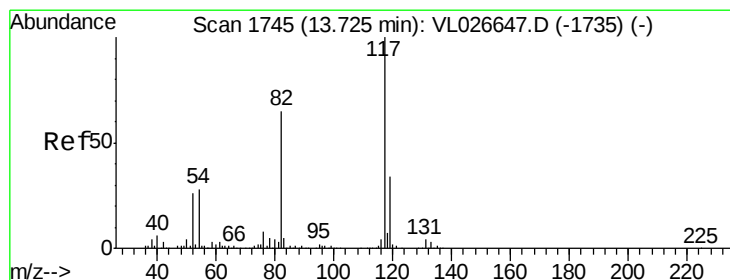
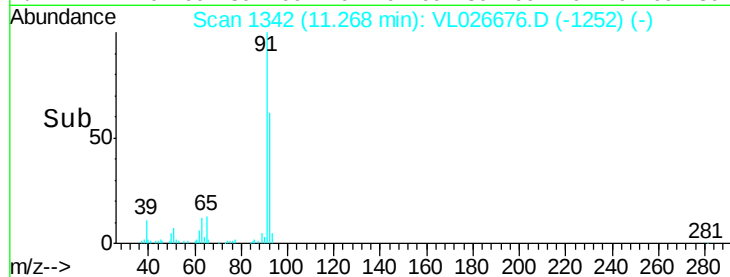
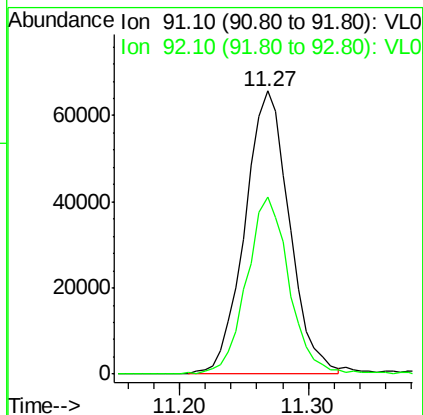
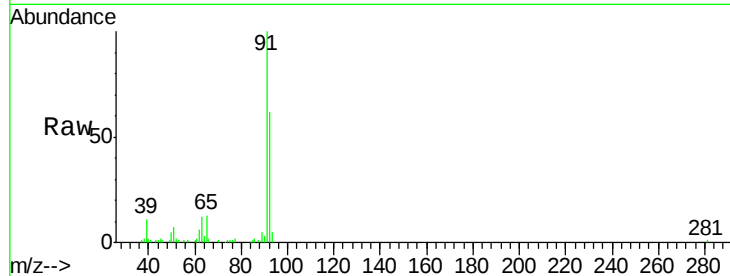
SS-1DL

Tot Ion: 91 Resp: 156998

Ion Ratio Lower Upper

91 100

92 60.1 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.77 min Scan# 1753

Delta R.T. 0.05 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

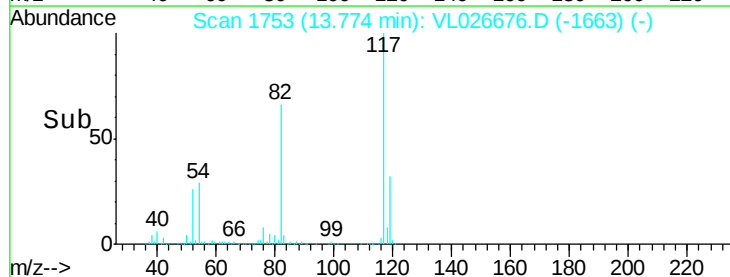
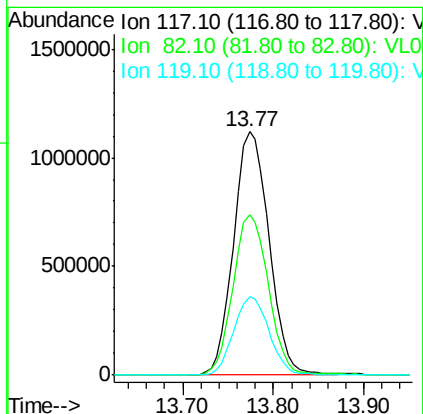
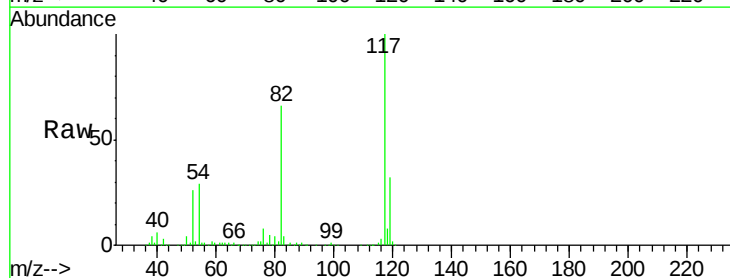
Tgt Ion: 117 Resp: 3050849

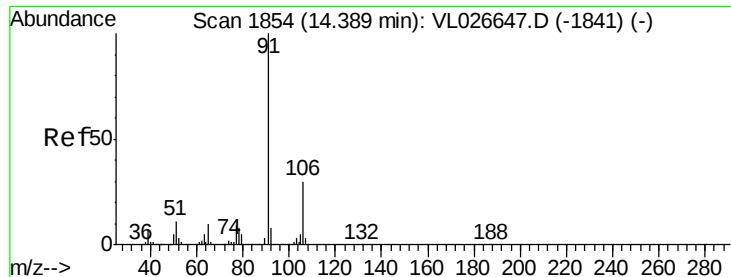
Ion Ratio Lower Upper

117 100

82 66.6 49.7 74.5

119 32.3 43.8 65.8#





#58

Ethyl Benzene

Concen: 0.70 ppbv

RT: 14.44 min Scan# 1863

Delta R.T. 0.05 min

Lab File: VL026676.D

Acq: 12 Jan 2016 15:58

Instrument :

MSVOA_L

ClientSampleId :

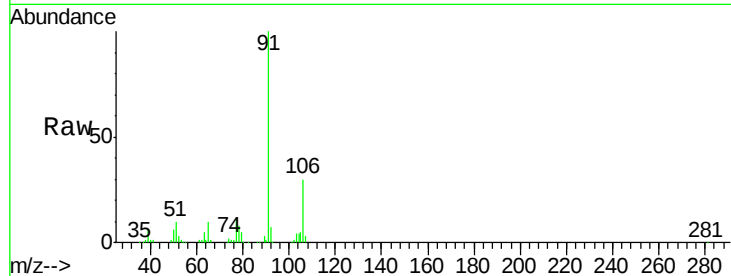
SS-1DL

Tot Ion: 91 Resp: 379482

Ion Ratio Lower Upper

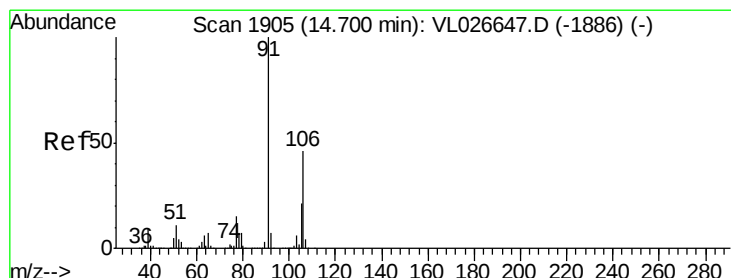
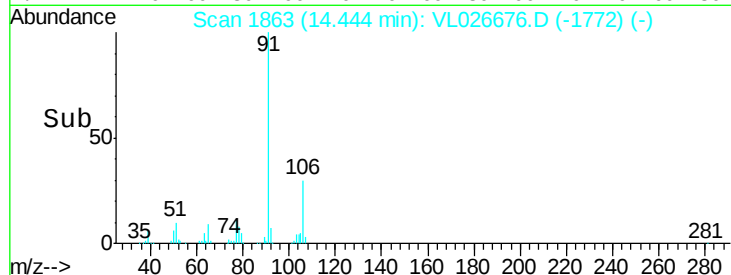
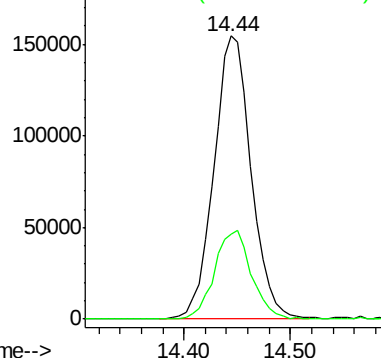
91 100

106 30.2 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 4.23 ppbv

RT: 14.72 min Scan# 1908

Delta R.T. 0.02 min

Lab File: VL026676.D

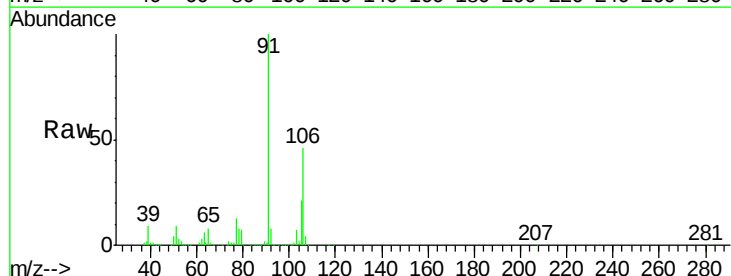
Acq: 12 Jan 2016 15:58

Tgt Ion: 91 Resp: 1898427

Ion Ratio Lower Upper

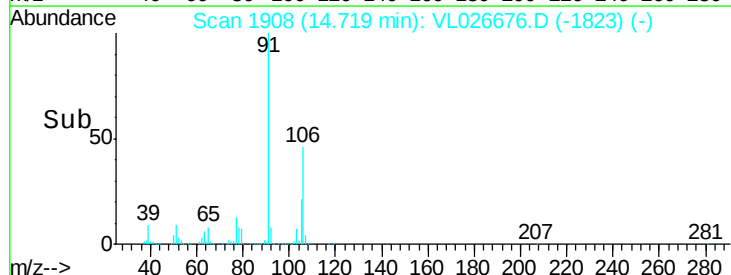
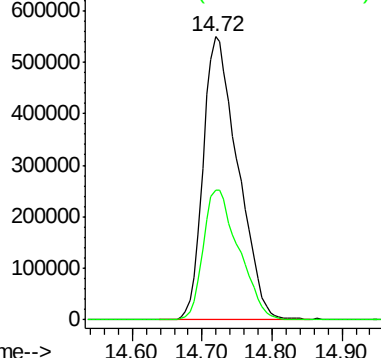
91 100

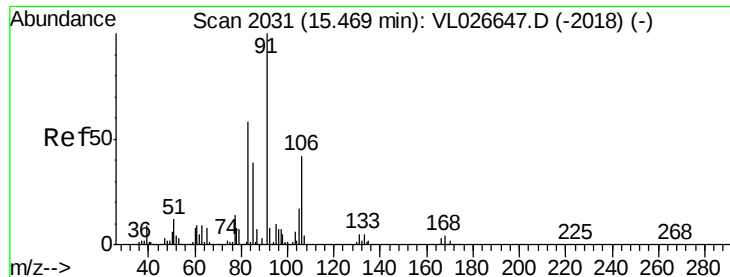
106 47.1 36.6 55.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

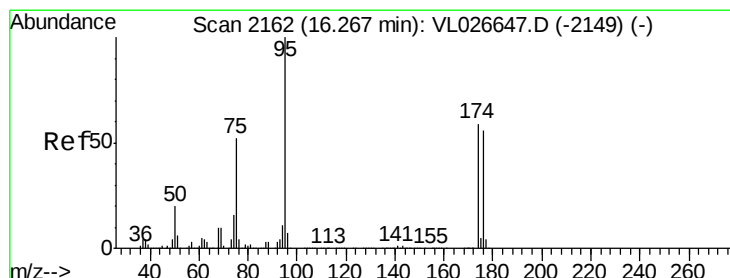
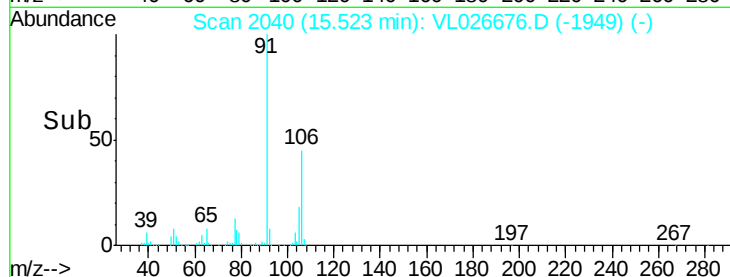
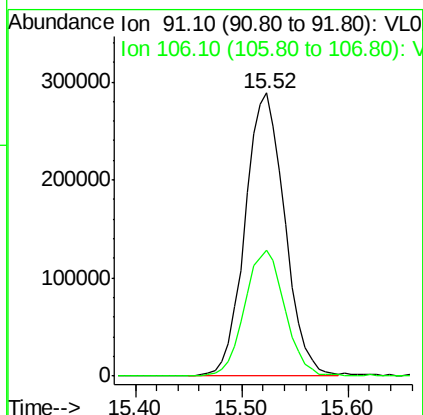
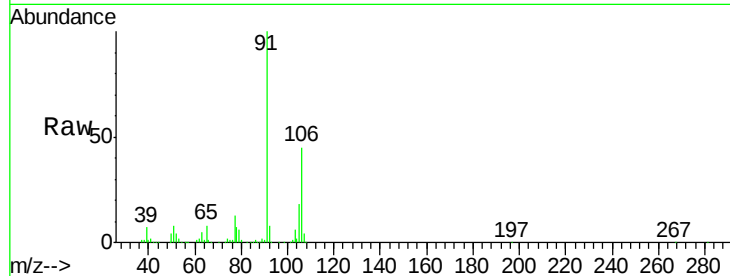




#60
o-Xylene
Concen: 1.56 ppbv
RT: 15.52 min Scan# 2040
Delta R.T. 0.05 min
Lab File: VL026676.D
Acq: 12 Jan 2016 15:58

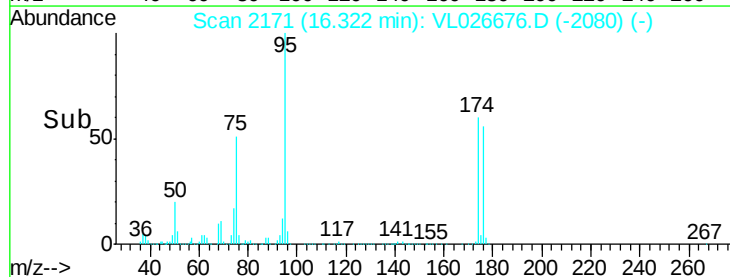
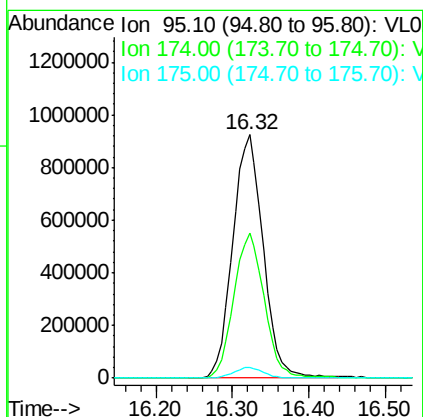
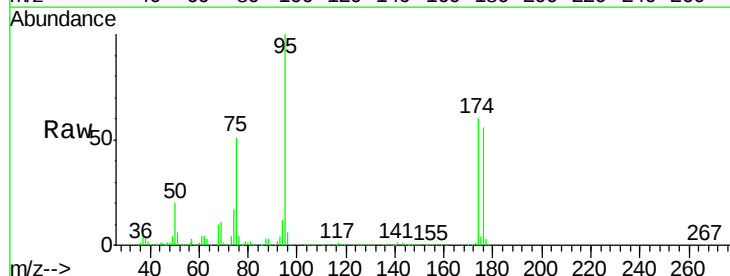
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

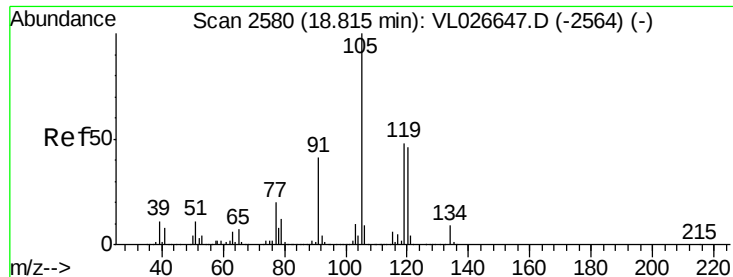
Tot Ion: 91 Resp: 755651
Ion Ratio Lower Upper
91 100
106 45.1 21.5 64.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.51 ppbv
RT: 16.32 min Scan# 2171
Delta R.T. 0.05 min
Lab File: VL026676.D
Acq: 12 Jan 2016 15:58

Tgt Ion: 95 Resp: 2555117
Ion Ratio Lower Upper
95 100
174 60.1 47.8 71.8
175 4.3 3.6 5.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.18 ppbv
 RT: 18.86 min Scan# 2588
 Delta R.T. 0.05 min
 Lab File: VL026676.D
 Acq: 12 Jan 2016 15:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Tot Ion:	105	Resp:	100869
Ion Ratio	Lower	Upper	
105	100		
120	41.5	36.6	55.0
91	9.1	32.5	48.7#
77	13.7	15.7	23.5#

