

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026851.D
 Acq On : 10 Feb 2016 13:42
 Operator : SY/AP
 Sample : H1388-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 01:18:32 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	1608162	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.36	114	4709758	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.79	117	4606388	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	3275946	9.91	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

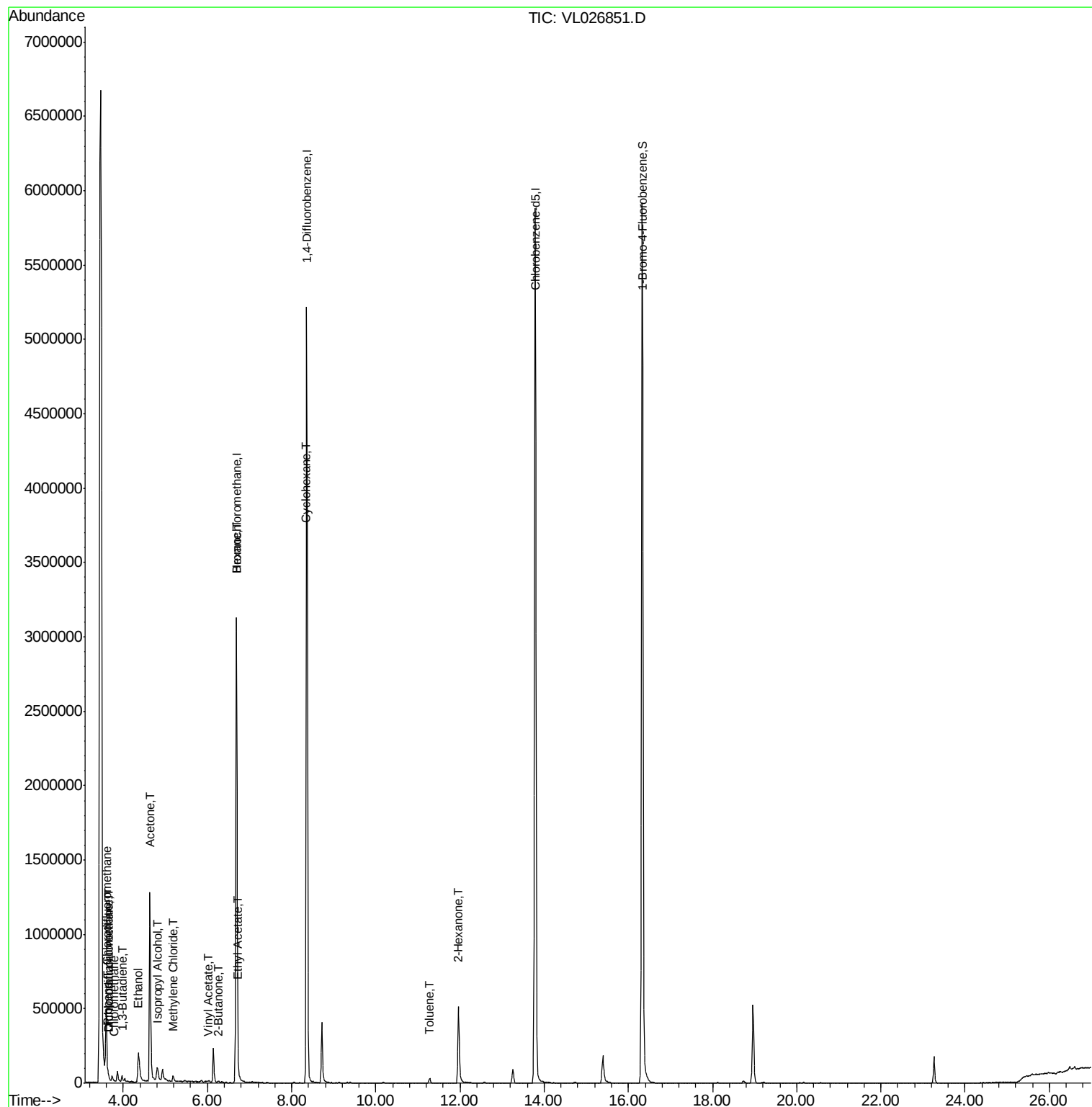
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.67	85	10594	0.03	ppbv	94
3) Chlorodifluoromethane	3.60	51	564964	2.17	ppbv	98
4) Chloromethane	3.78	50	3427	0.03	ppbv	94
8) Dichlorotetrafluoroethane	3.67	85	10594	0.03	ppbv #	10
9) Propene	3.64	41	10493	0.15	ppbv	85
13) Ethanol	4.36	45	326115	26.90	ppbv	97
15) Acetone	4.63	43	1769451	8.01	ppbv	99
16) 1,3-Butadiene	3.98	39	4970	0.06	ppbv #	3
19) Isopropyl Alcohol	4.81	45	152291	1.93	ppbv #	1
20) Methylene Chloride	5.18	84	18966	0.17	ppbv	92
23) Vinyl Acetate	6.03	43	11313	0.04	ppbv #	84
25) Ethyl Acetate	6.73	43	27232	0.08	ppbv #	95
26) Hexane	6.70	57	10618	0.06	ppbv #	59
30) Cyclohexane	8.34	84	13679	0.09	ppbv #	1
34) 2-Butanone	6.26	43	9442	0.04	ppbv #	73
51) 2-Hexanone	11.96	43	121543	0.53	ppbv #	27
53) Toluene	11.28	91	32053	0.08	ppbv	97

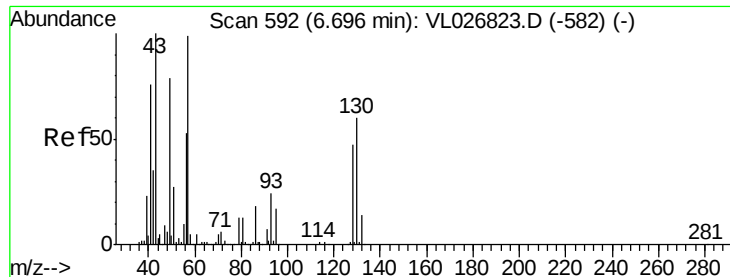
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :

Quant Time: Feb 11 01:18:32 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: VL026851.D

Acq: 10 Feb 2016 13:42

Instrument :

MSVOA_L

ClientSampleId :

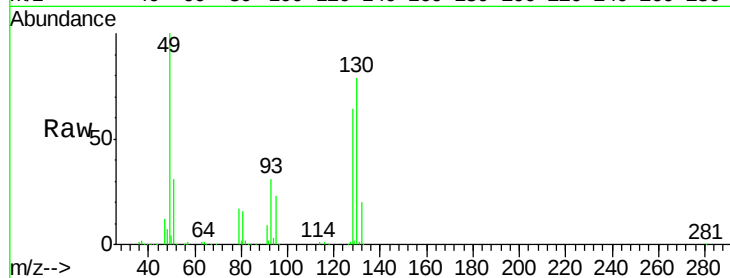
Tgt Ion: 49 Resp: 1608162

Ion Ratio Lower Upper

49 100

128 64.8 29.7 89.1

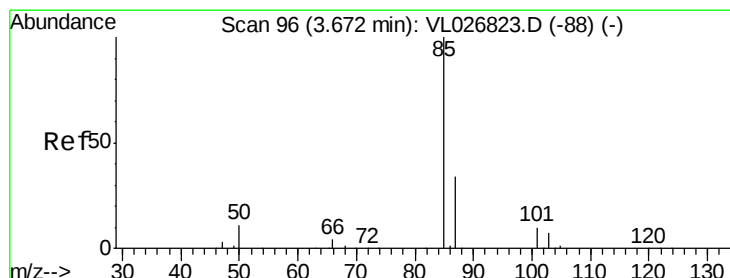
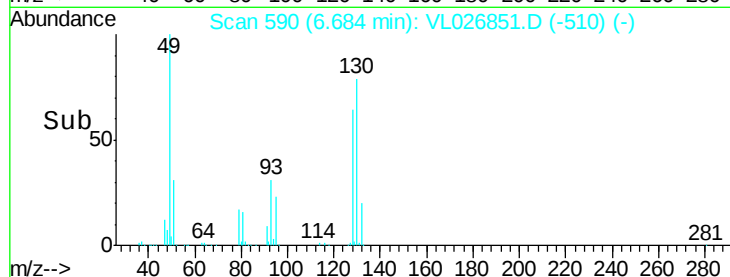
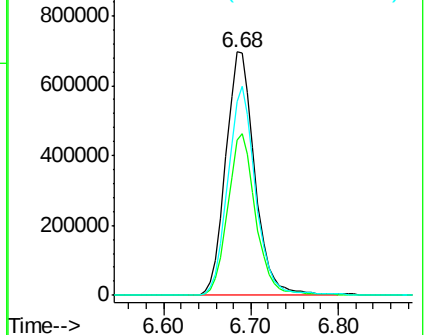
130 83.2 38.3 114.8



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



#2

Dichlorodifluoromethane

Concen: 0.03 ppbv

RT: 3.67 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL026851.D

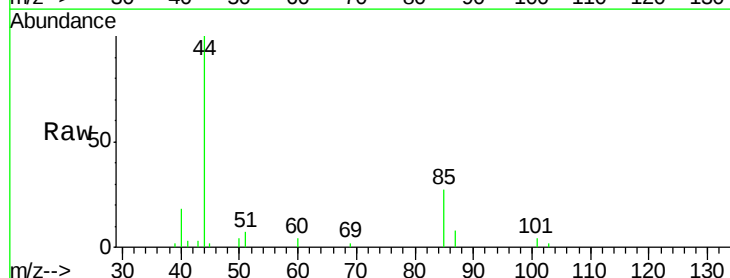
Acq: 10 Feb 2016 13:42

Tgt Ion: 85 Resp: 10594

Ion Ratio Lower Upper

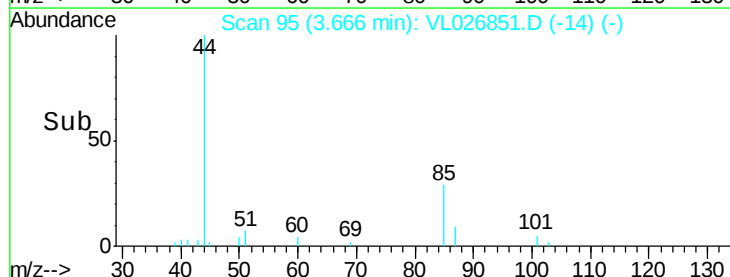
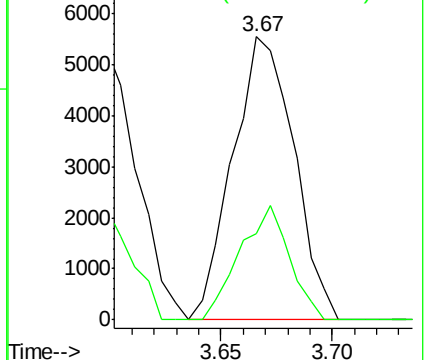
85 100

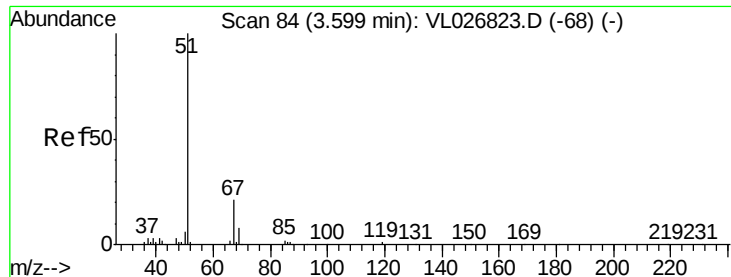
87 30.6 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.17 ppbv

RT: 3.60 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

Instrument :

MSVOA_L

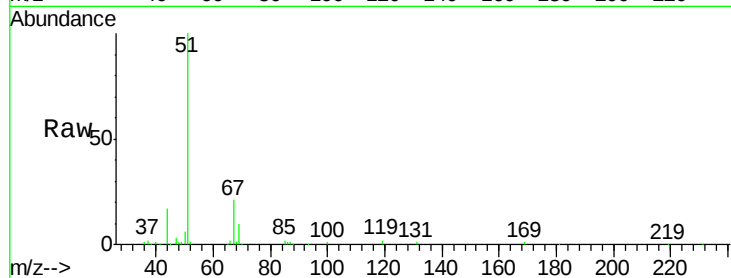
ClientSampleId :

Tgt Ion: 51 Resp: 564964

Ion Ratio Lower Upper

51 100

67 19.6 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

300000

250000

200000

150000

100000

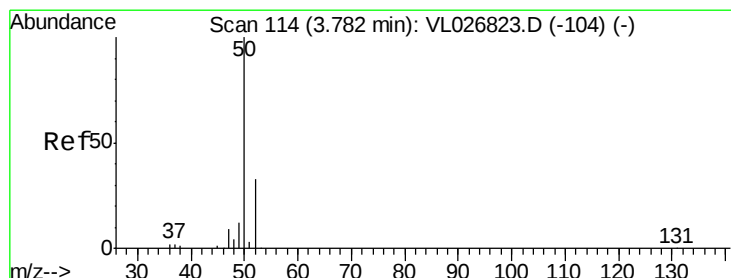
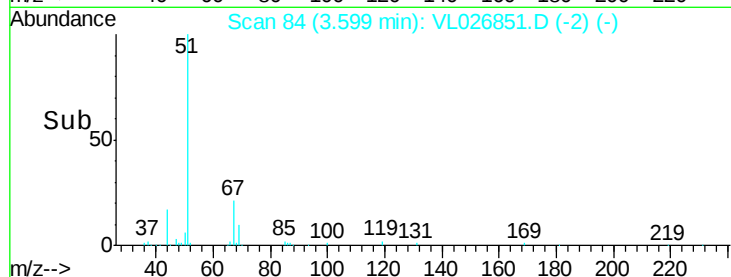
50000

0

3.60

3.40 3.50 3.60 3.70

Time-->



#4

Chloromethane

Concen: 0.03 ppbv

RT: 3.78 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL026851.D

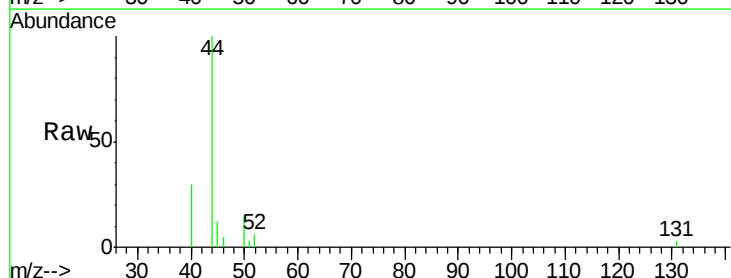
Acq: 10 Feb 2016 13:42

Tgt Ion: 50 Resp: 3427

Ion Ratio Lower Upper

50 100

52 36.4 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

1500

1000

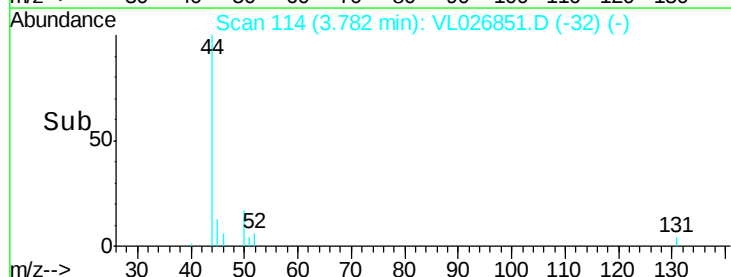
500

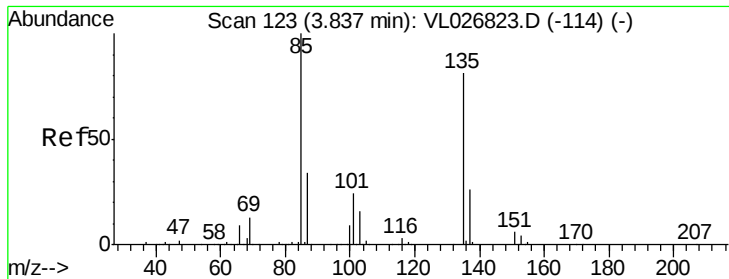
0

3.78

3.75 3.80

Time-->





#8

Dichlorotetrafluoroethane

Concen: 0.03 ppbv

RT: 3.67 min Scan# 95

Delta R.T. -0.17 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

Instrument :

MSVOA_L

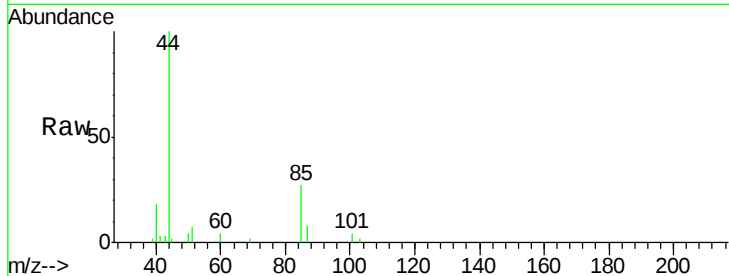
ClientSampleId :

Tgt Ion: 85 Resp: 10594

Ion Ratio Lower Upper

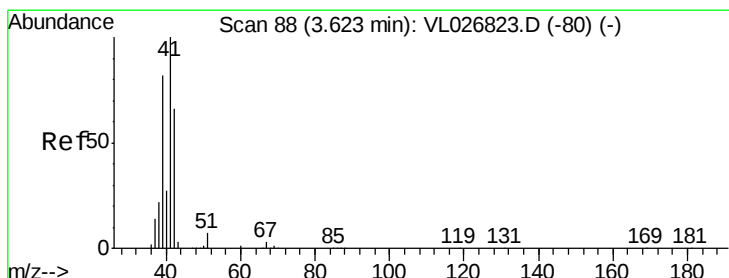
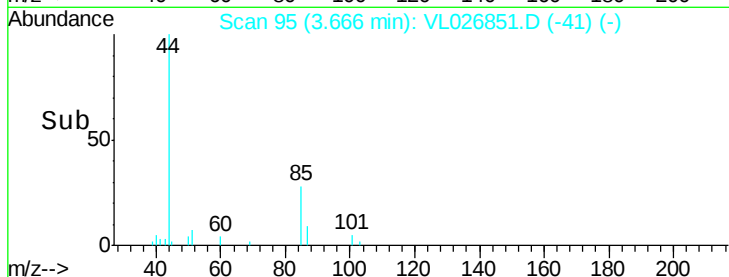
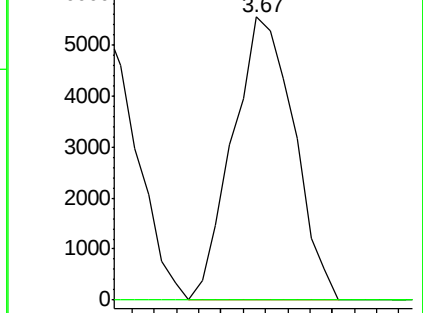
85 100

135 0.0 63.2 94.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.15 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026851.D

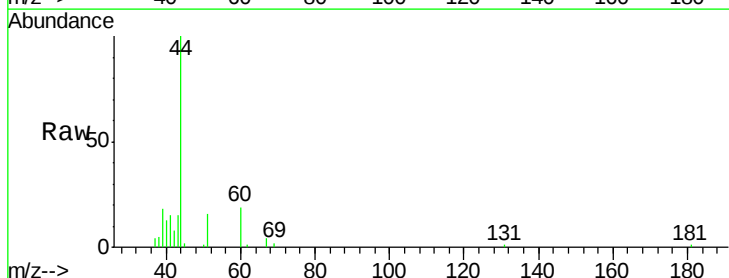
Acq: 10 Feb 2016 13:42

Tgt Ion: 41 Resp: 10493

Ion Ratio Lower Upper

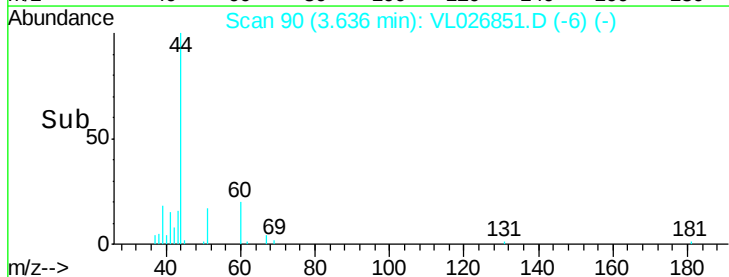
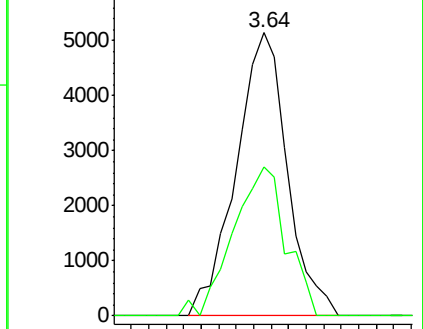
41 100

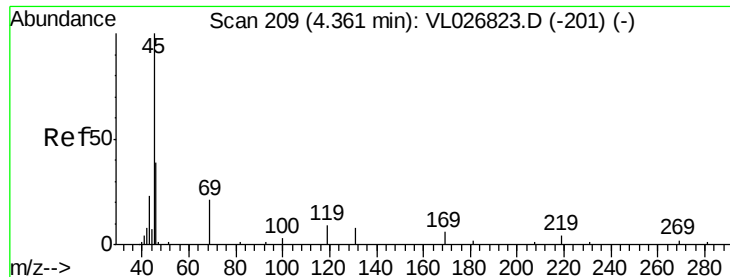
42 54.3 52.8 79.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 26.90 ppbv

RT: 4.36 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

Instrument :

MSVOA_L

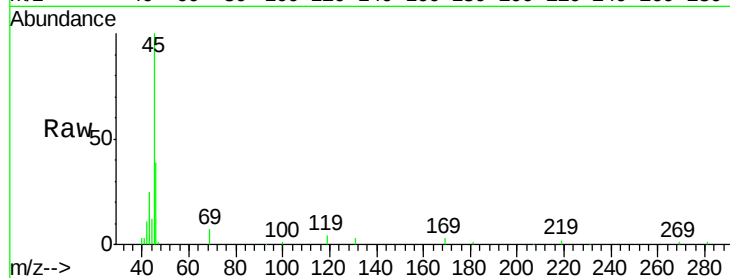
ClientSampleId :

Tgt Ion: 45 Resp: 326115

Ion Ratio Lower Upper

45 100

46 41.3 15.8 63.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

4.36

100000

80000

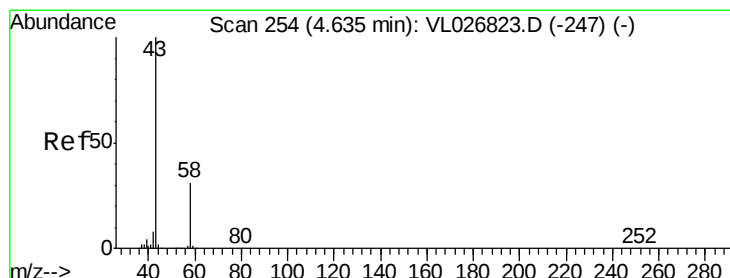
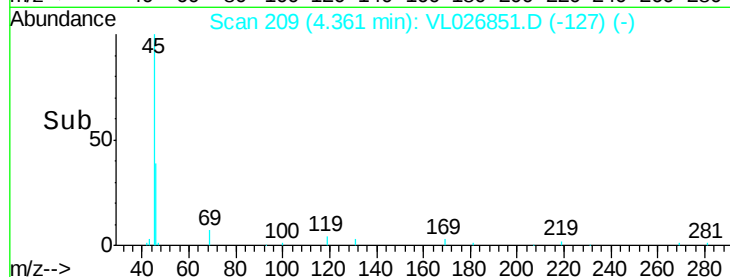
60000

40000

20000

0

Time-->



#15

Acetone

Concen: 8.01 ppbv

RT: 4.63 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL026851.D

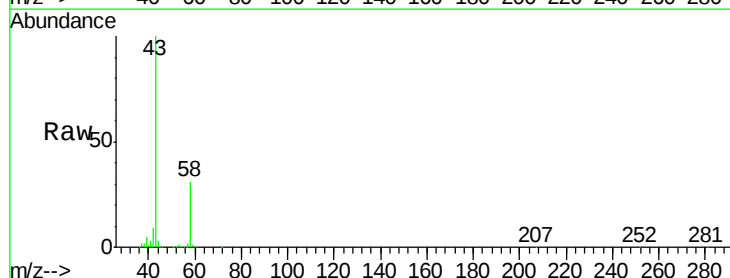
Acq: 10 Feb 2016 13:42

Tgt Ion: 43 Resp: 1769451

Ion Ratio Lower Upper

43 100

58 32.0 25.2 37.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.63

800000

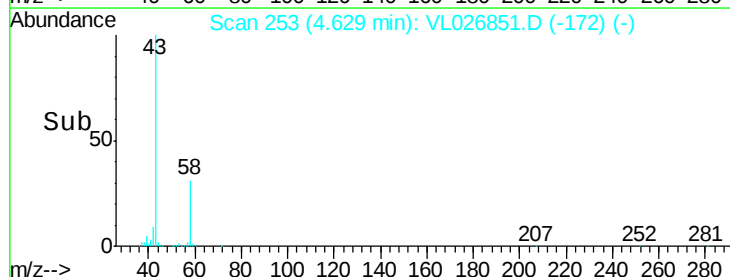
600000

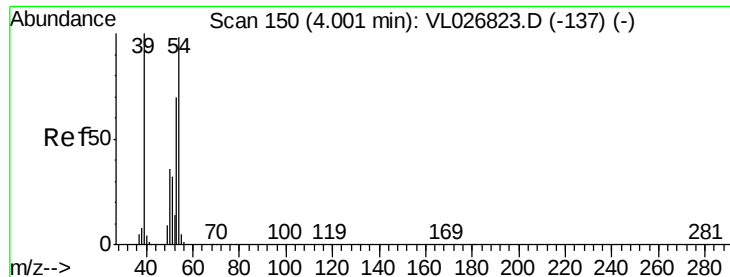
400000

200000

0

Time-->

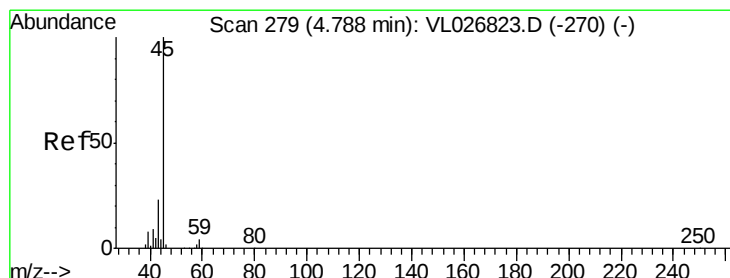
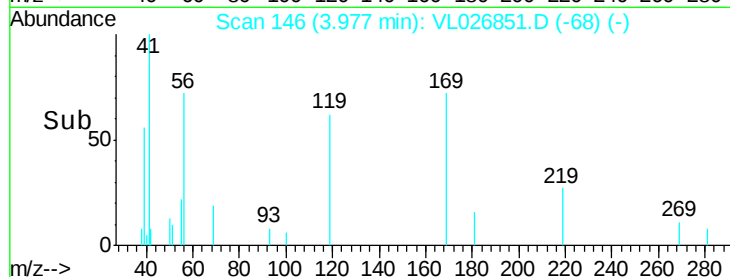
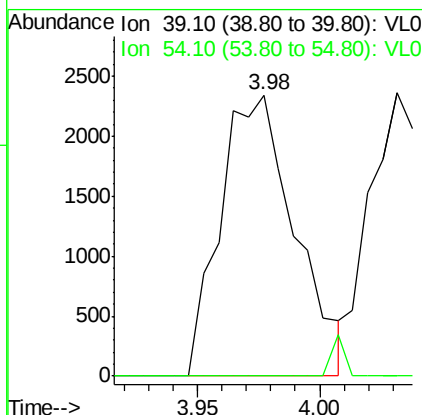
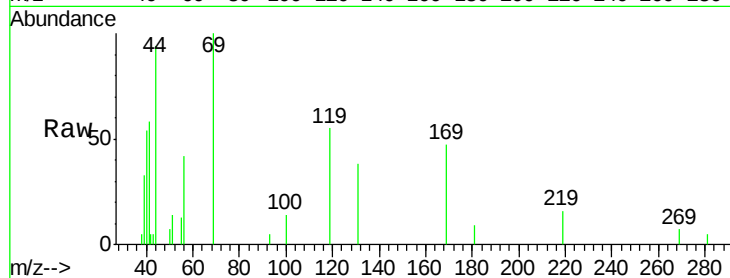




#16
 1,3-Butadiene
 Concen: 0.06 ppbv
 RT: 3.98 min Scan# 146
 Delta R.T. -0.02 min
 Lab File: VL026851.D
 Acq: 10 Feb 2016 13:42

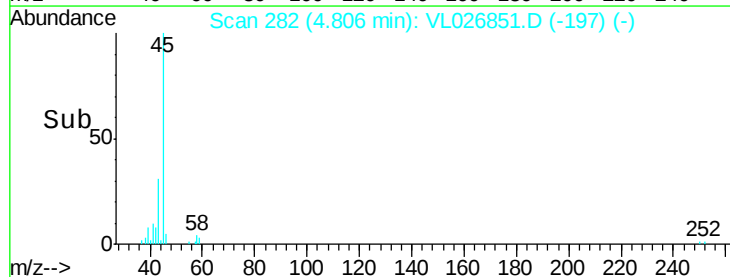
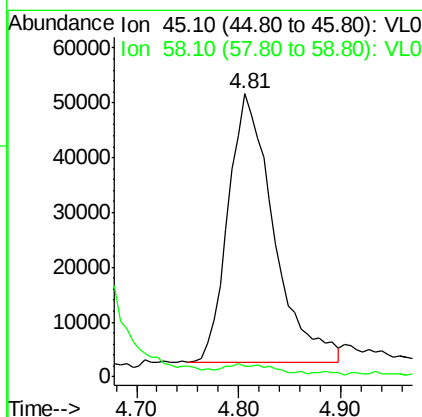
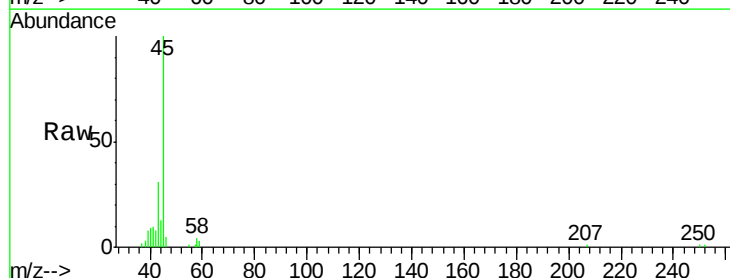
Instrument :
 MSVOA_L
 ClientSampled :

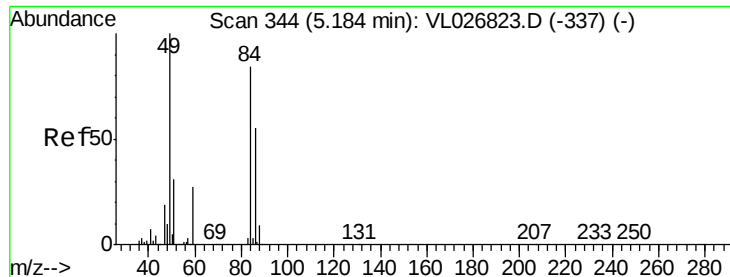
Tgt Ion: 39 Resp: 4970
 Ion Ratio Lower Upper
 39 100
 54 0.0 74.7 112.1#



#19
 Isopropyl Alcohol
 Concen: 1.93 ppbv
 RT: 4.81 min Scan# 282
 Delta R.T. 0.02 min
 Lab File: VL026851.D
 Acq: 10 Feb 2016 13:42

Tgt Ion: 45 Resp: 152291
 Ion Ratio Lower Upper
 45 100
 58 371.9 2.2 3.2#

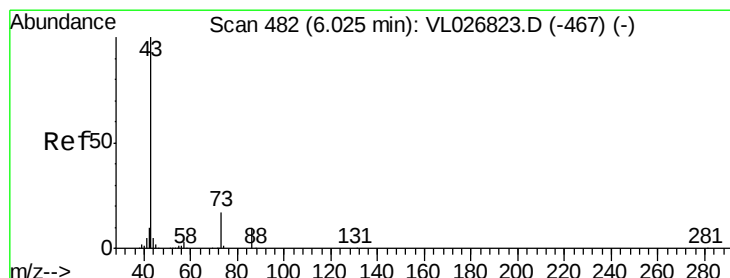
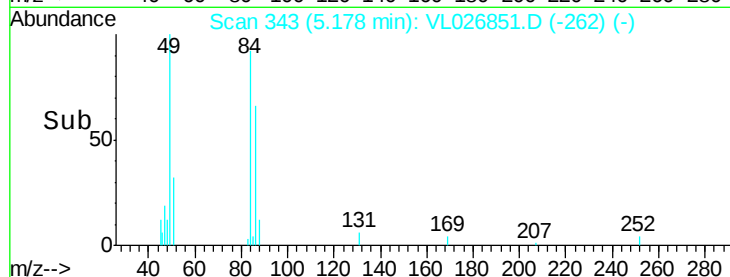
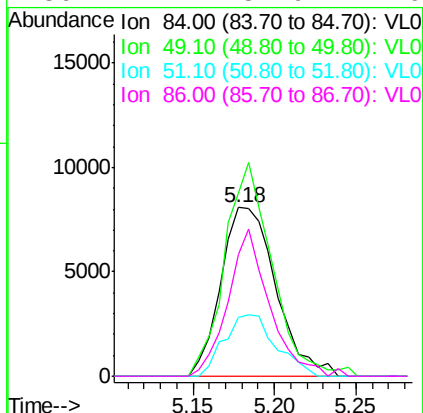
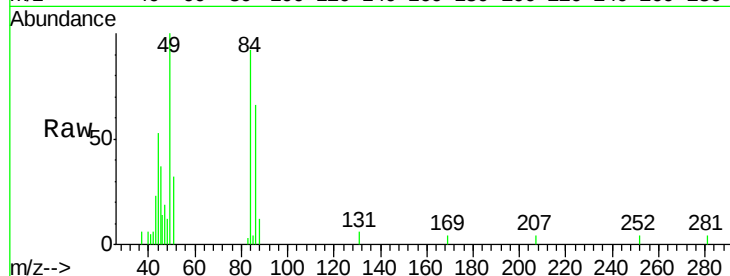




#20
Methylene Chloride
Concen: 0.17 ppbv
RT: 5.18 min Scan# 343
Delta R.T. -0.01 min
Lab File: VL026851.D
Acq: 10 Feb 2016 13:42

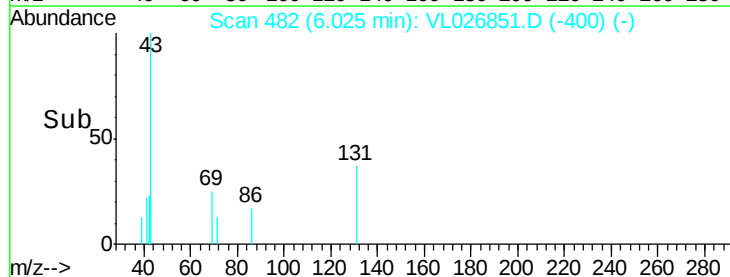
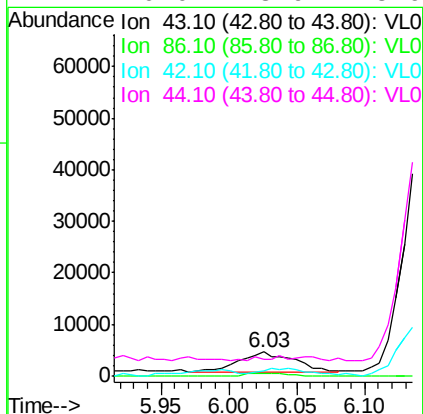
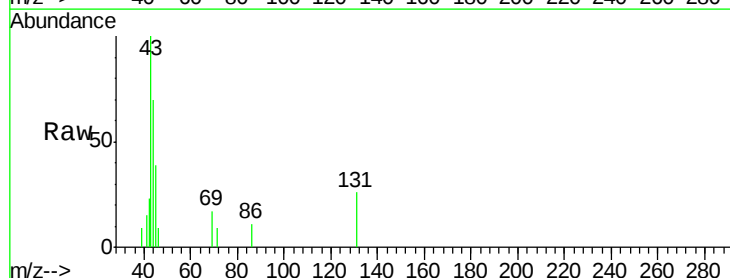
Instrument :
MSVOA_L
ClientSampleId :

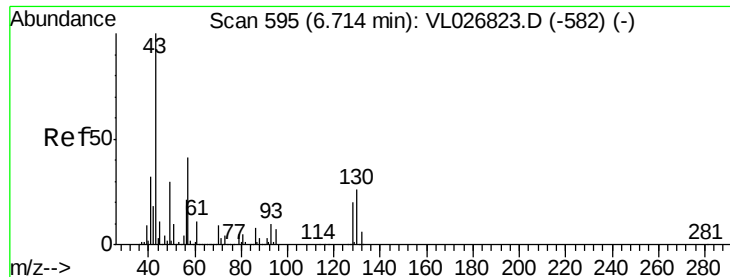
Tgt Ion:	84	Resp:	18966
Ion	Ratio	Lower	Upper
84	100		
49	108.8	94.9	142.3
51	34.6	29.5	44.3
86	72.2	51.9	77.9



#23
Vinyl Acetate
Concen: 0.04 ppbv
RT: 6.03 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL026851.D
Acq: 10 Feb 2016 13:42

Tgt Ion:	43	Resp:	11313
Ion	Ratio	Lower	Upper
43	100		
86	13.6	7.7	11.5#
42	18.1	7.8	11.8#
44	0.0	3.9	5.9#

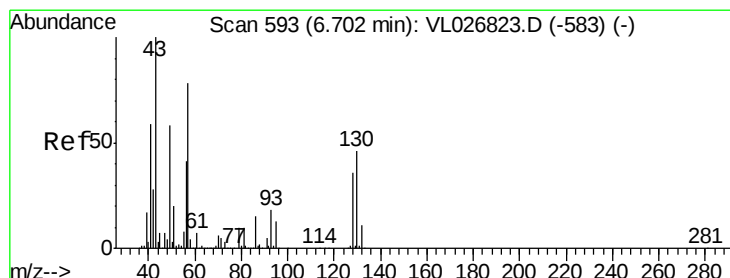
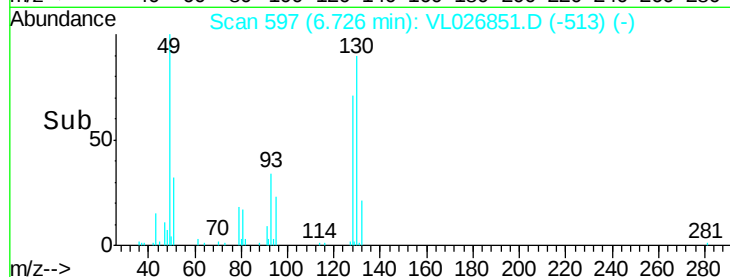
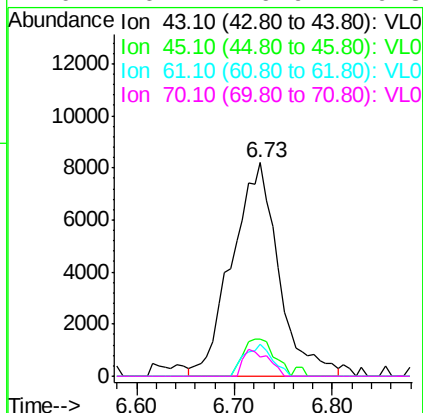
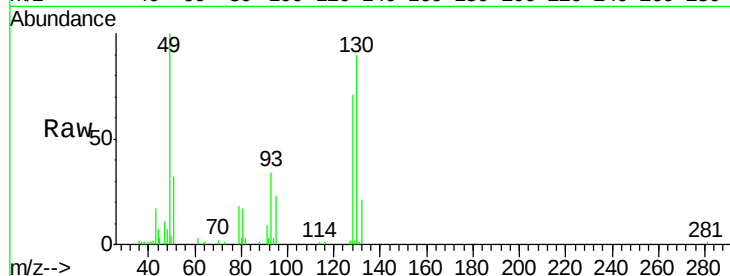




#25
Ethyl Acetate
Concen: 0.08 ppbv
RT: 6.73 min Scan# 597
Delta R.T. 0.01 min
Lab File: VL026851.D
Acq: 10 Feb 2016 13:42

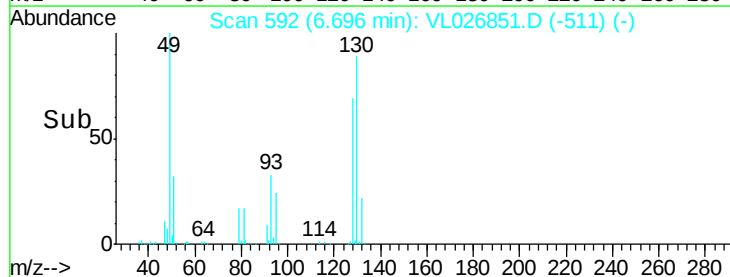
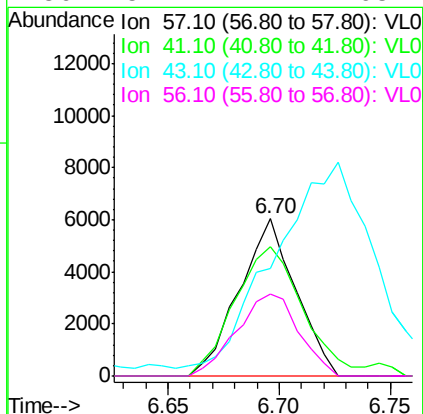
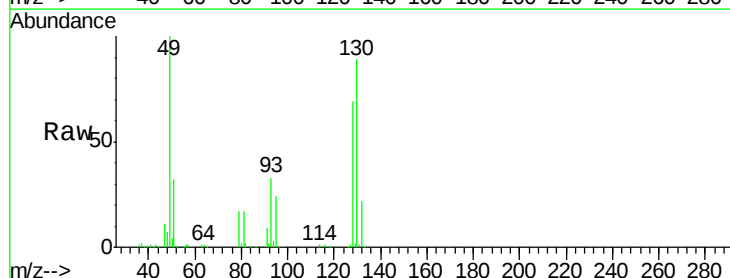
Instrument :
MSVOA_L
ClientSampleId :

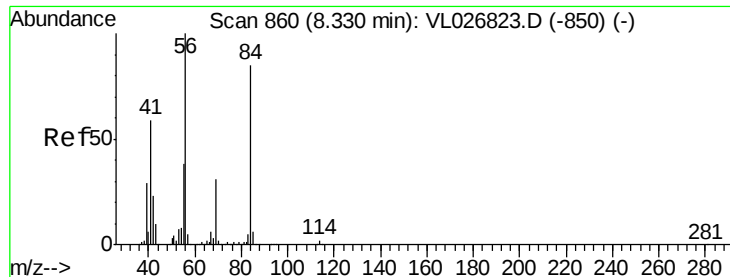
Tgt Ion: 43 Resp: 27232
Ion Ratio Lower Upper
43 100
45 12.5 7.8 11.8#
61 8.8 7.9 11.9
70 6.7 6.9 10.3#



#26
Hexane
Concen: 0.06 ppbv
RT: 6.70 min Scan# 592
Delta R.T. -0.01 min
Lab File: VL026851.D
Acq: 10 Feb 2016 13:42

Tgt Ion: 57 Resp: 10618
Ion Ratio Lower Upper
57 100
41 102.8 63.3 94.9#
43 271.2 151.4 227.2#
56 57.4 42.2 63.2





#30

Cyclohexane

Concen: 0.09 ppbv

RT: 8.34 min Scan# 862

Delta R.T. 0.01 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

Instrument :

MSVOA_L

ClientSampleId :

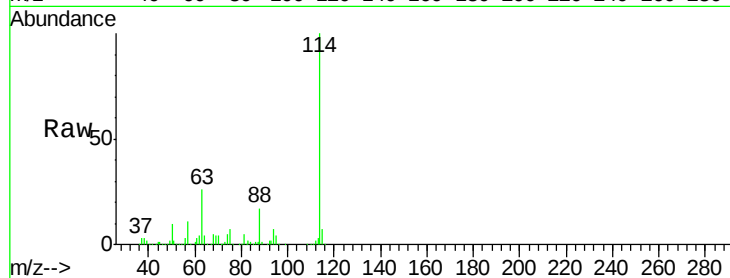
Tgt Ion: 84 Resp: 13679

Ion Ratio Lower Upper

84 100

56 719.5 99.4 149.2#

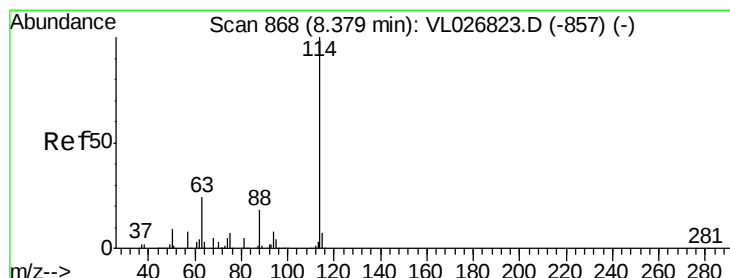
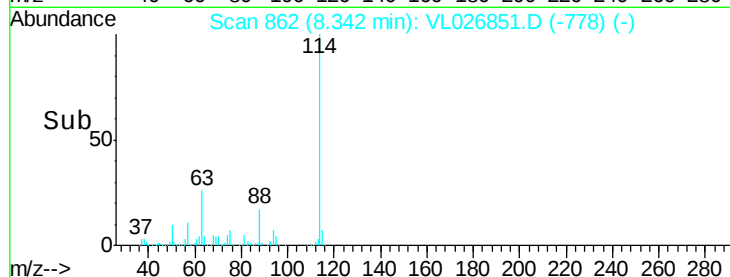
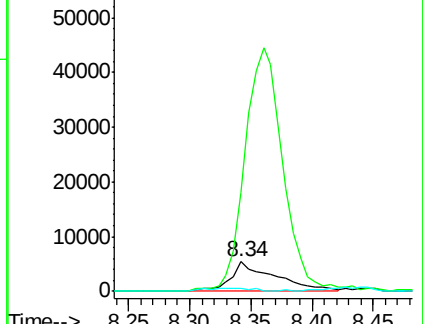
41 0.0 56.7 85.1#



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.36 min Scan# 865

Delta R.T. -0.02 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

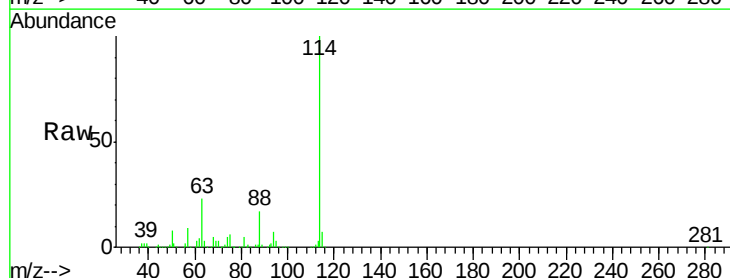
Tgt Ion: 114 Resp: 4709758

Ion Ratio Lower Upper

114 100

63 22.4 19.7 29.5

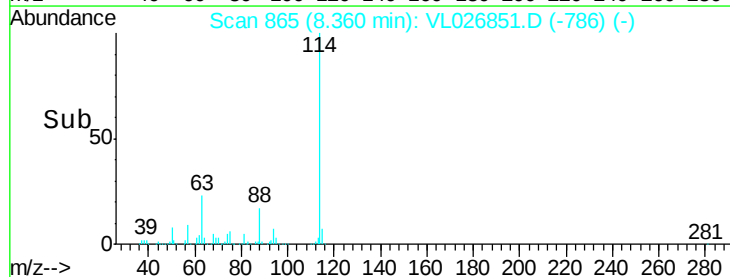
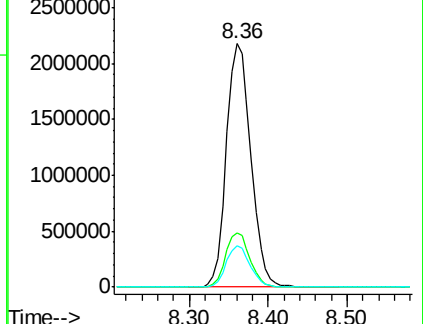
88 16.5 13.8 20.6

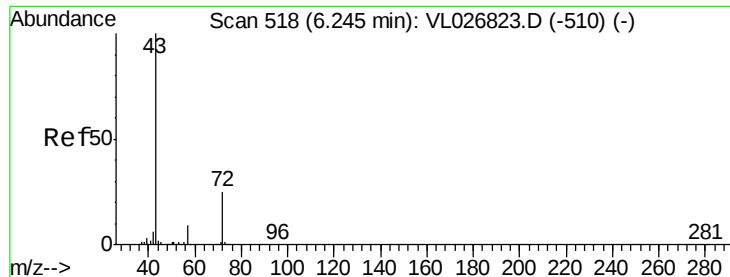


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.04 ppbv

RT: 6.26 min Scan# 521

Delta R.T. 0.02 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

Instrument :

MSVOA_L

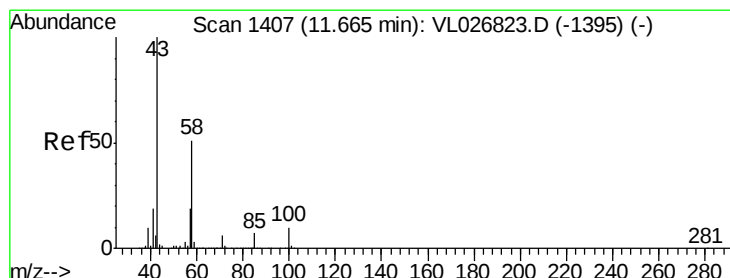
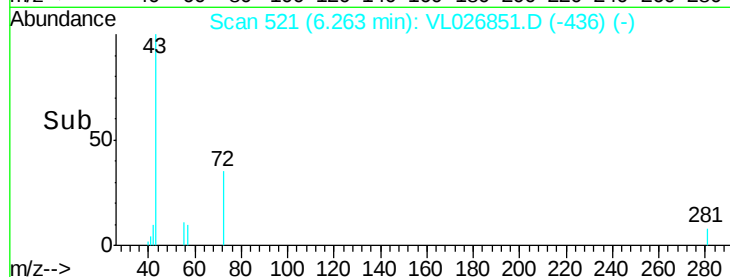
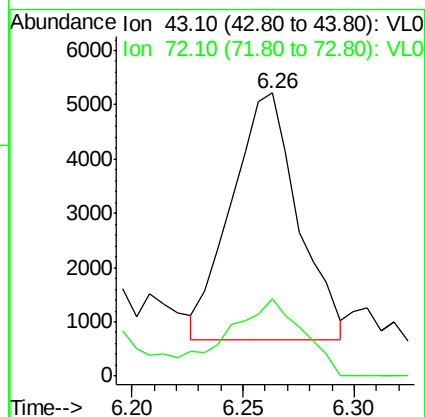
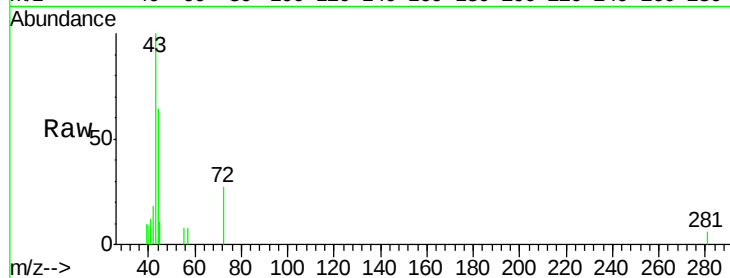
ClientSampleId :

Tgt Ion: 43 Resp: 9442

Ion Ratio Lower Upper

43 100

72 38.2 19.8 29.8#



#51

2-Hexanone

Concen: 0.53 ppbv

RT: 11.96 min Scan# 1455

Delta R.T. 0.29 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

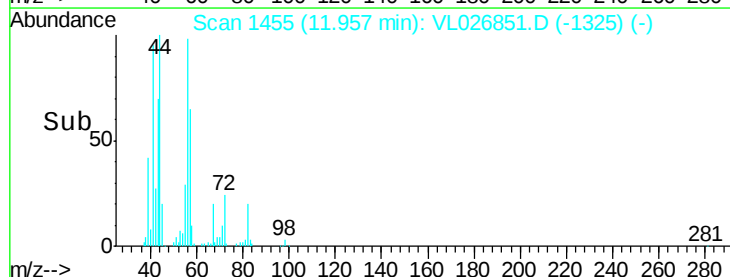
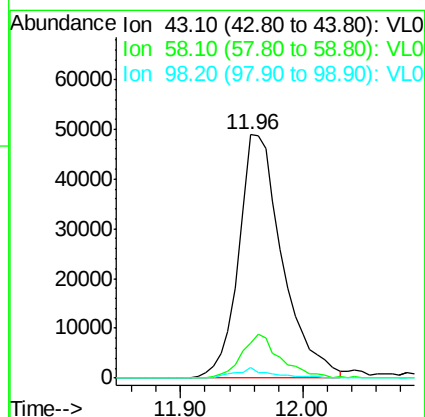
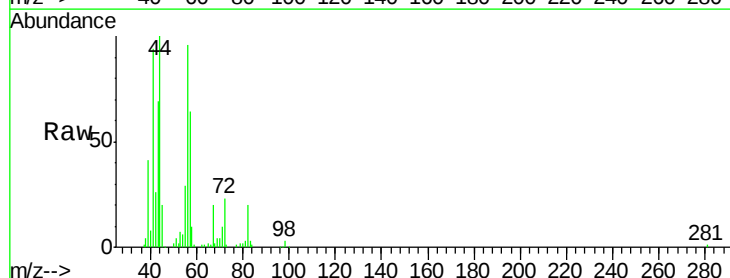
Tgt Ion: 43 Resp: 121543

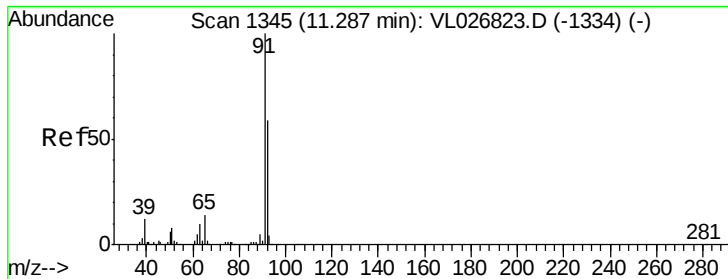
Ion Ratio Lower Upper

43 100

58 0.0 40.4 60.6#

98 3.6 0.2 0.4#





#53

Toluene

Concen: 0.08 ppbv

RT: 11.28 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

Instrument :

MSVOA_L

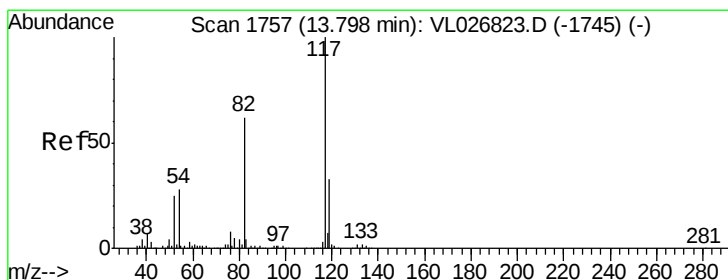
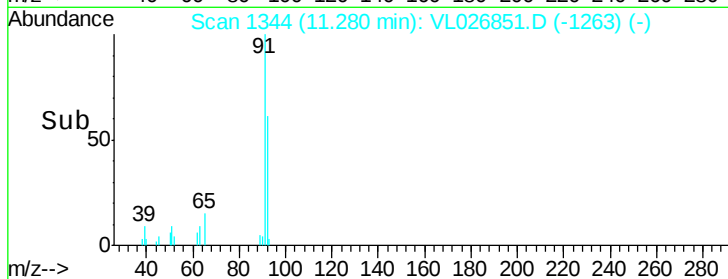
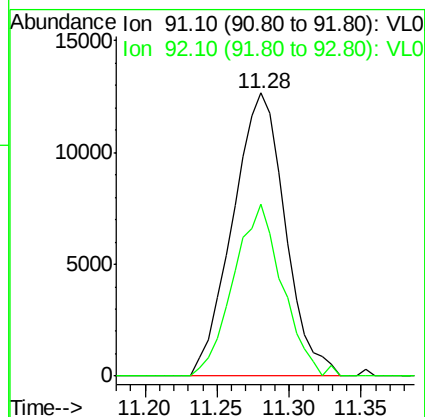
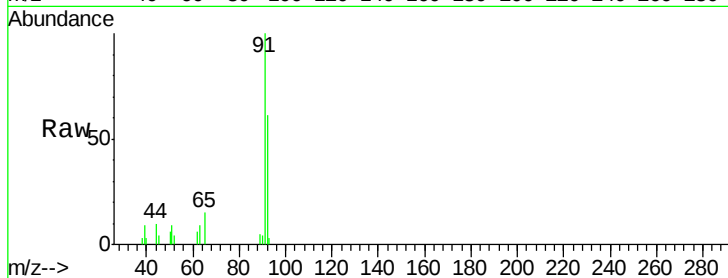
ClientSampleId :

Tgt Ion: 91 Resp: 32053

Ion Ratio Lower Upper

91 100

92 56.7 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: VL026851.D

Acq: 10 Feb 2016 13:42

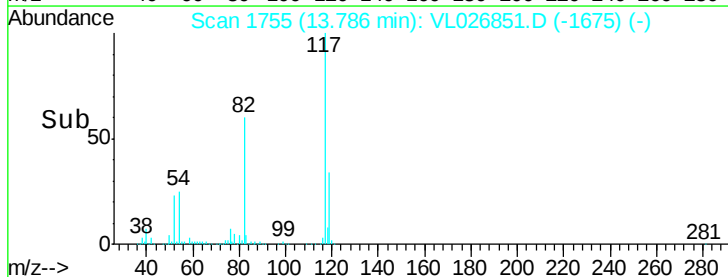
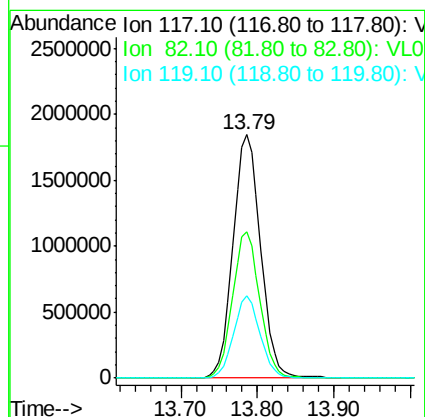
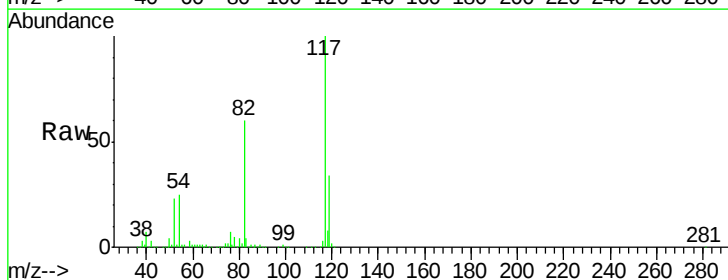
Tgt Ion: 117 Resp: 4606388

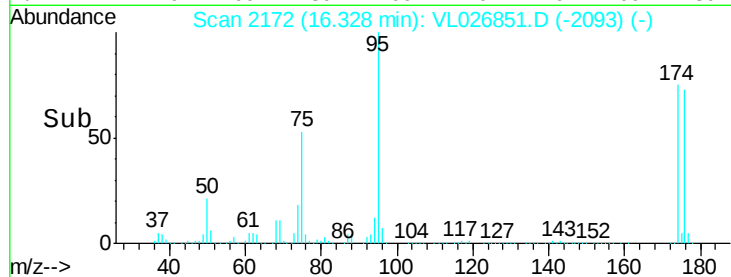
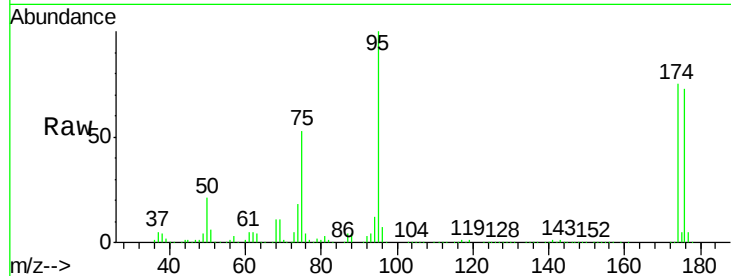
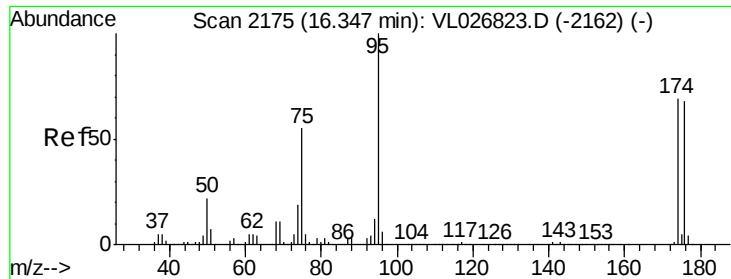
Ion Ratio Lower Upper

117 100

82 0.0 51.9 77.9#

119 0.0 48.5 72.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.91 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. -0.02 min

Lab File: VL026851.D

Acq: 10 Feb 2016 13:42

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 95 Resp: 3275946

Ion Ratio Lower Upper

95 100

174 74.8 55.6 83.4

175 5.3 3.9 5.9

