

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026227.D
 Acq On : 21 Oct 2015 4:58
 Operator : SY/MD
 Sample : G4112-03D
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-239DUP

Quant Time: Oct 21 04:43:40 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 01:20:55 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.62	49	532360	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.30	114	1563106	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.71	117	1864600	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.25	95	1470569	10.23	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.62	85	78886	0.72	ppbv	99
3) Chlorodifluoromethane	3.56	51	211058	3.13	ppbv	95
4) Chloromethane	3.73	50	16943	0.47	ppbv	99
8) Dichlorotetrafluoroethane	3.79	85	1970	0.02	ppbv	92
9) Propene	3.81	41	30265	0.96	ppbv	84
10) Heptane	9.32	43	18180	0.17	ppbv	88
11) Trichlorofluoromethane	4.68	101	61075	0.56	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.29	101	4901	0.07	ppbv	100
13) Ethanol	4.31	45	178699	37.76	ppbv	97
15) Acetone	4.59	43	366517	4.68	ppbv	94
16) 1,3-Butadiene	3.93	39	10651	0.30	ppbv #	33
17) tert-Butyl alcohol	5.17	59	1190	0.02	ppbv #	72
19) Isopropyl Alcohol	4.76	45	28599	0.93	ppbv #	27
20) Methylene Chloride	5.13	84	111945	3.58	ppbv	98
21) Allyl Chloride	5.14	41	7109	0.14	ppbv #	67
23) Vinyl Acetate	5.99	43	49421	0.34	ppbv #	51
25) Ethyl Acetate	6.66	43	59487	0.40	ppbv #	97
26) Hexane	6.64	57	22108	0.30	ppbv #	67
29) Chloroform	6.72	83	6292	0.06	ppbv	95
30) Cyclohexane	8.26	84	8083	0.11	ppbv #	1
31) cis-1,2-Dichloroethene	6.49	61	1357	0.02	ppbv #	59
34) 2-Butanone	6.19	43	31612	0.36	ppbv	95
35) Carbon Tetrachloride	8.13	117	8417	0.07	ppbv	91
36) Benzene	7.99	78	45704	0.29	ppbv	98
37) 1,2-Dichloroethane	7.34	62	1651	0.02	ppbv #	78
38) Trichloroethene	9.04	130	51526	0.67	ppbv	98
41) Tetrahydrofuran	7.13	42	5030	0.10	ppbv #	71
44) 2,2,4-Trimethylpentane	9.06	57	38462	0.15	ppbv #	86
50) 4-Methyl-2-Pentanone	10.10	43	7930	0.07	ppbv #	36
52) Tetrachloroethene	12.77	164	5074945	55.59	ppbv	98
53) Toluene	11.20	91	304920	1.41	ppbv	98
58) Ethyl Benzene	14.38	91	37102	0.12	ppbv	99
59) m/p-Xylene	14.66	91	93355	0.39	ppbv	99
60) o-Xylene	15.46	91	38171	0.15	ppbv	98
61) Styrene	15.29	104	5495	0.05	ppbv	99
64) n-propylbenzene	17.49	120	4660	0.05	ppbv	68
65) tert-Butylbenzene	18.79	119	9676	0.03	ppbv #	81
72) 4-Ethyltoluene	17.79	105	30746	0.11	ppbv #	94
73) 1,3,5-Trimethylbenzene	17.95	105	25381	0.09	ppbv	95
74) 1,2,4-Trimethylbenzene	18.79	105	70699	0.25	ppbv #	74
75) 1,3-Dichlorobenzene	19.24	146	7255	0.04	ppbv	92

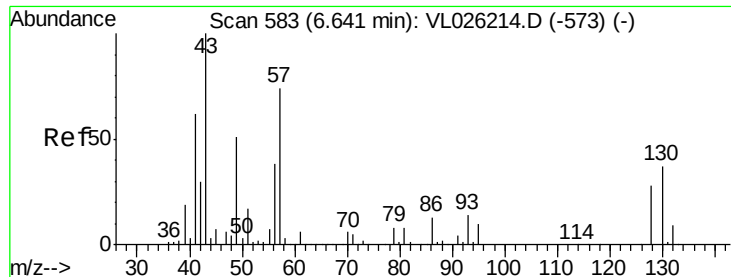
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
Data File : VL026227.D
Acq On : 21 Oct 2015 4:58
Operator : SY/MD
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Quant Time: Oct 21 04:43:40 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 21 01:20:55 2015
QLast Update : Wed Oct 21 01:20:55 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-Dichlorobenzene	19.24	146	7255	0.04	ppbv	90
79) Naphthalene	23.91	128	10377	0.04	ppbv #	94

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.62 min Scan# 580

Delta R.T. -0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

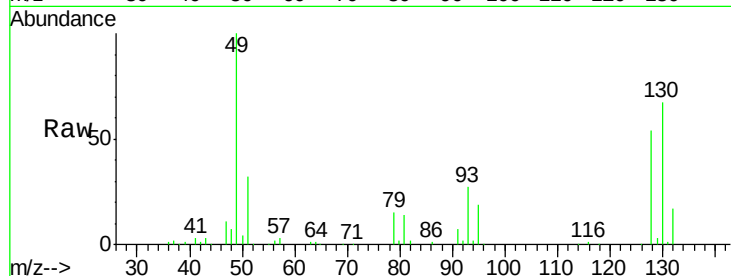
Tot Ion: 49 Resp: 532360

Ion Ratio Lower Upper

49 100

128 56.6 28.2 84.7

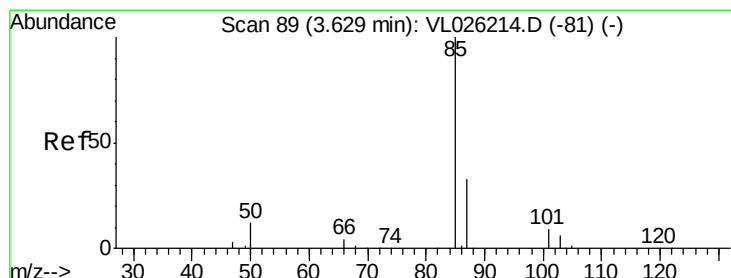
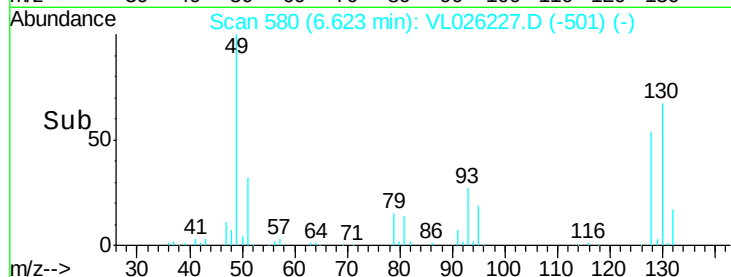
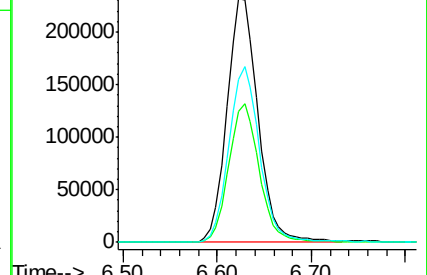
130 72.6 36.0 108.1



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: 0.72 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.01 min

Lab File: VL026227.D

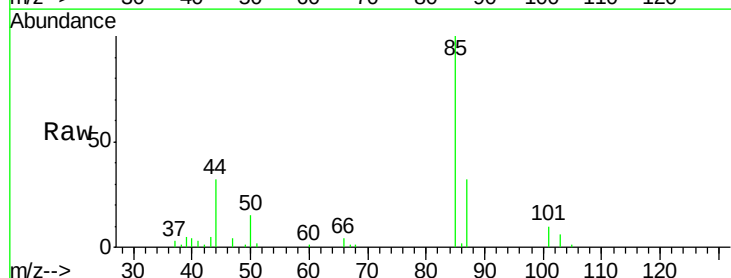
Acq: 21 Oct 2015 4:58

Tgt Ion: 85 Resp: 78886

Ion Ratio Lower Upper

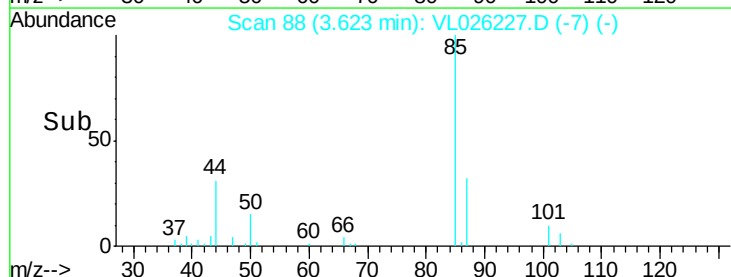
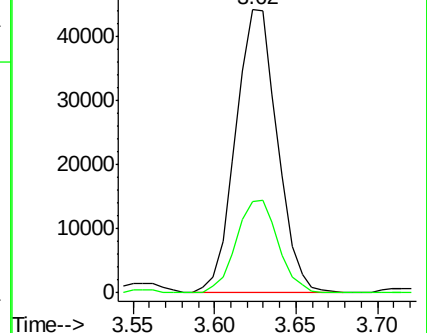
85 100

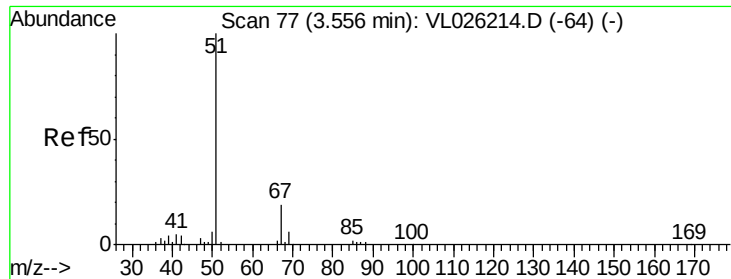
87 32.2 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 3.13 ppbv

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

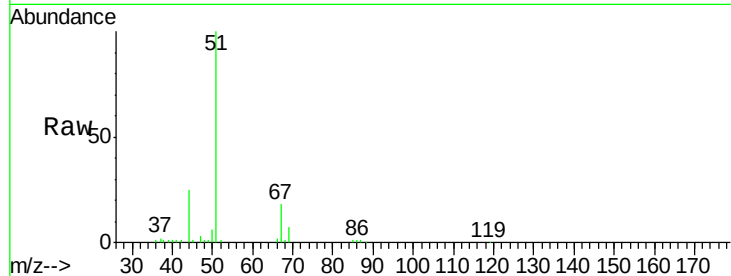
INDOOR-239DUP

Tot Ion: 51 Resp: 211058

Ion Ratio Lower Upper

51 100

67 16.6 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

120000

100000

80000

60000

40000

20000

0

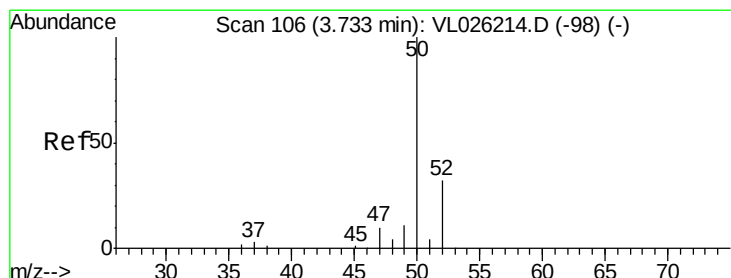
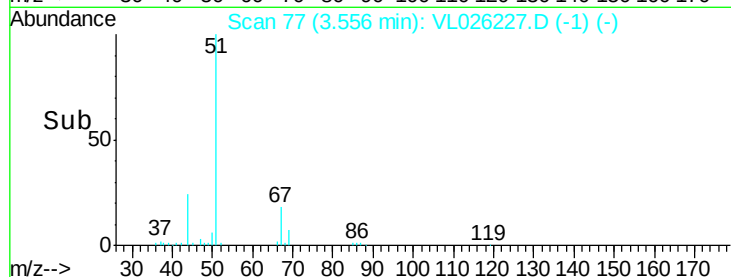
3.40

3.50

3.60

3.70

Time-->



#4

Chloromethane

Concen: 0.47 ppbv

RT: 3.73 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL026227.D

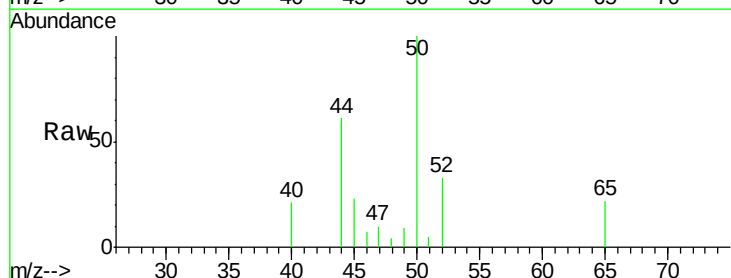
Acq: 21 Oct 2015 4:58

Tgt Ion: 50 Resp: 16943

Ion Ratio Lower Upper

50 100

52 32.8 25.8 38.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

8000

6000

4000

2000

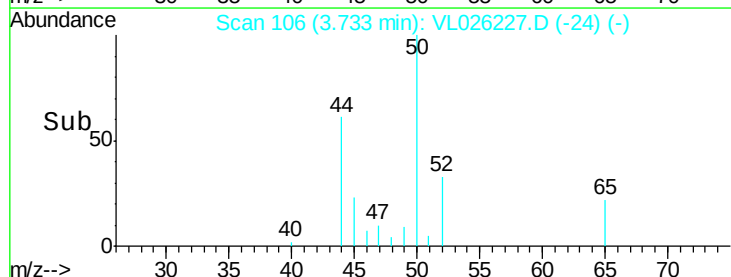
0

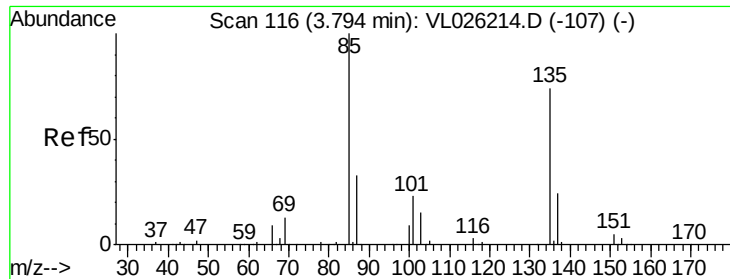
3.70

3.75

3.80

Time-->





#8

Dichlorotetrafluoroethane

Concen: 0.02 ppbv

RT: 3.79 min Scan# 115

Delta R.T. -0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

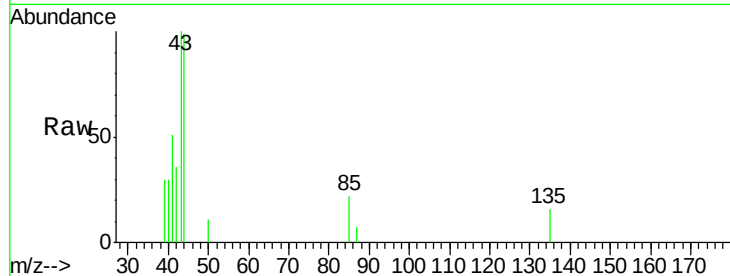
INDOOR-239DUP

Tot Ion: 85 Resp: 1970

Ion Ratio Lower Upper

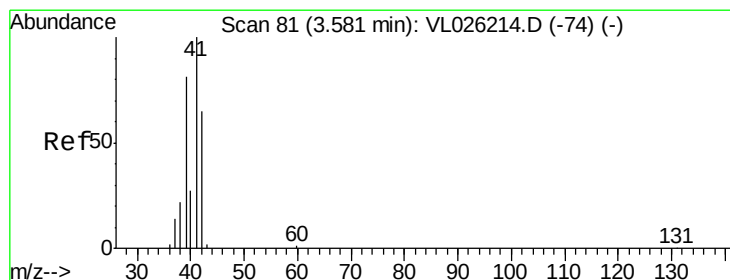
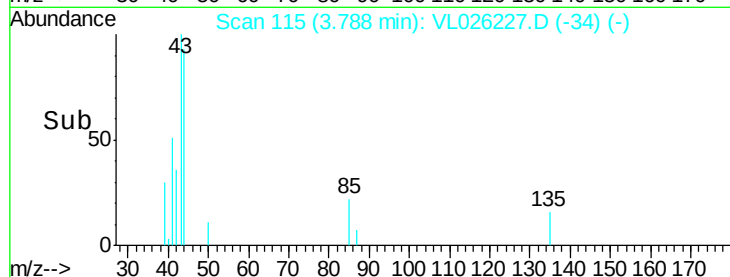
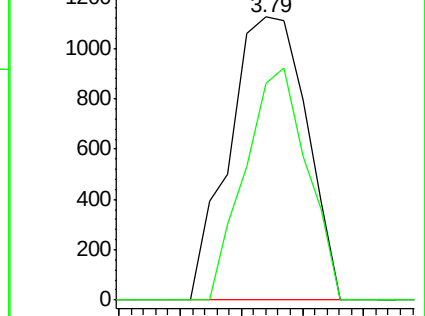
85 100

135 66.0 57.8 86.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.96 ppbv

RT: 3.81 min Scan# 119

Delta R.T. 0.23 min

Lab File: VL026227.D

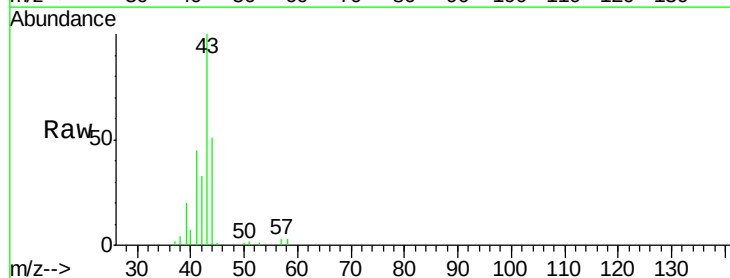
Acq: 21 Oct 2015 4:58

Tgt Ion: 41 Resp: 30265

Ion Ratio Lower Upper

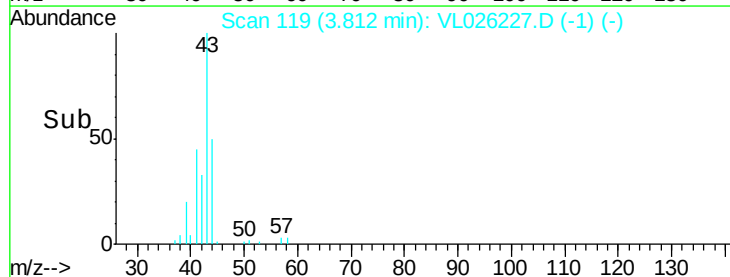
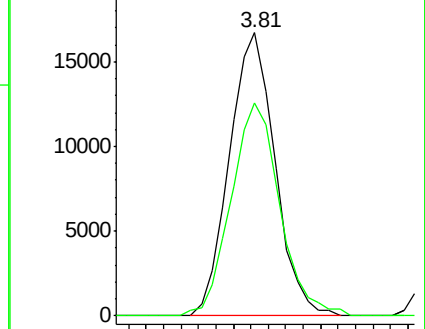
41 100

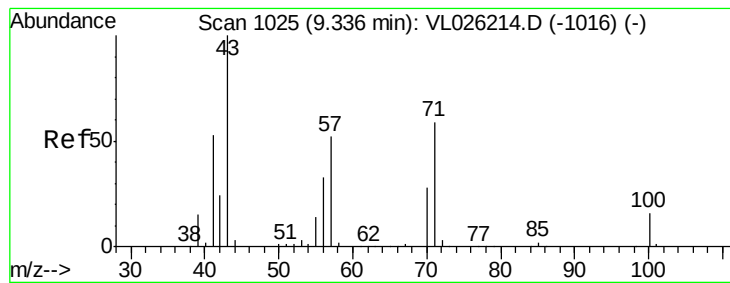
42 80.3 53.8 80.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.17 ppbv

RT: 9.32 min Scan# 1022

Delta R.T. -0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

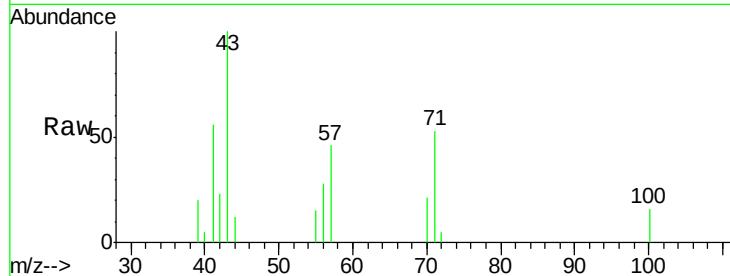
INDOOR-239DUP

Tot Ion: 43 Resp: 18180

Ion Ratio Lower Upper

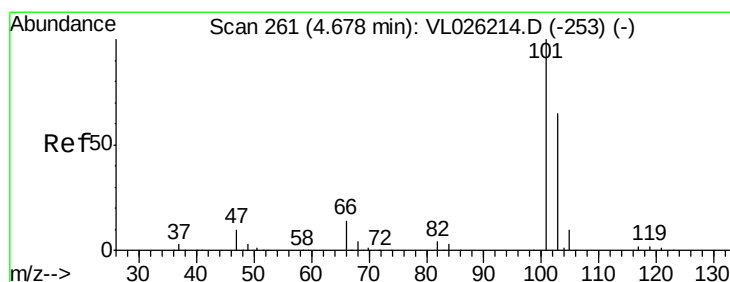
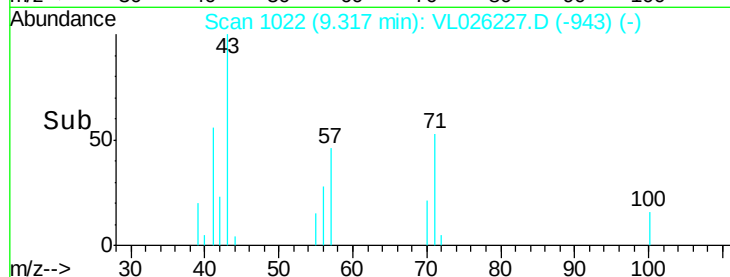
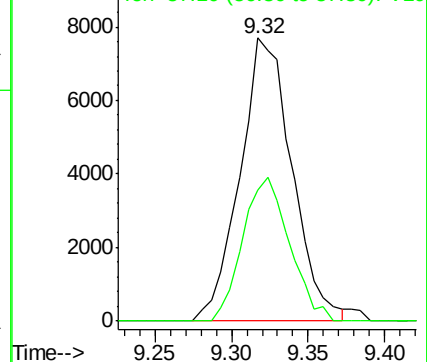
43 100

57 45.7 43.7 65.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.56 ppbv

RT: 4.68 min Scan# 261

Delta R.T. 0.00 min

Lab File: VL026227.D

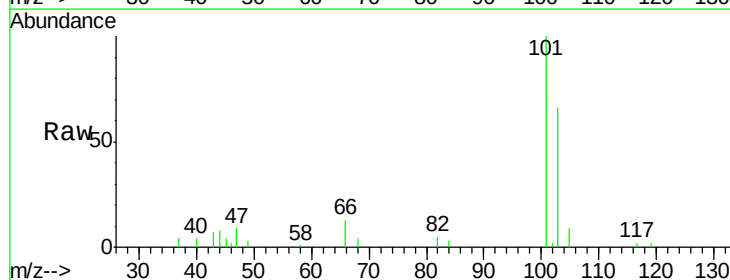
Acq: 21 Oct 2015 4:58

Tgt Ion: 101 Resp: 61075

Ion Ratio Lower Upper

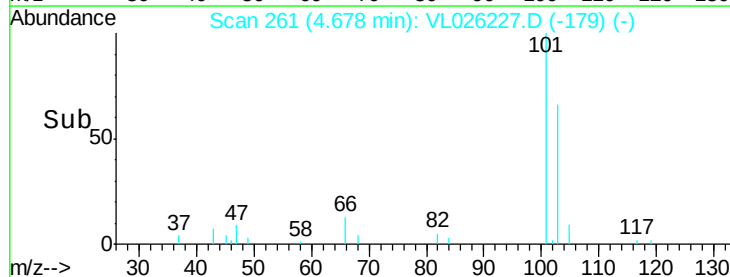
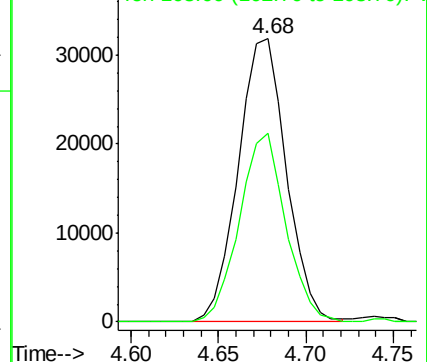
101 100

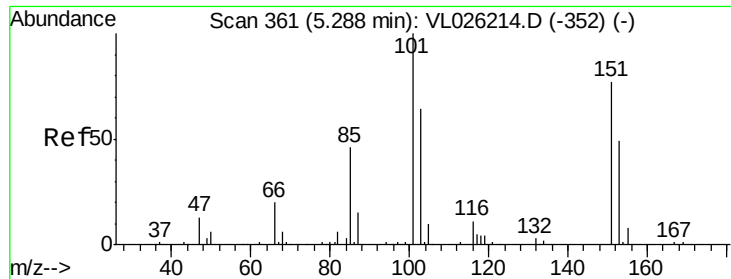
103 66.5 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

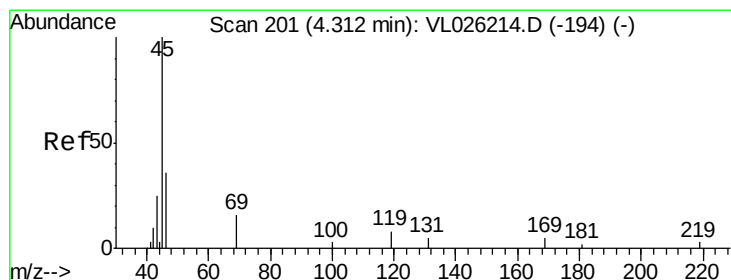
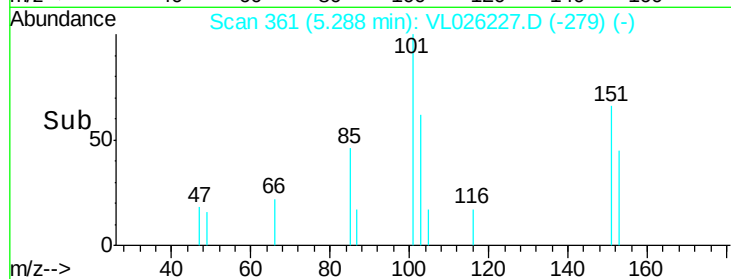
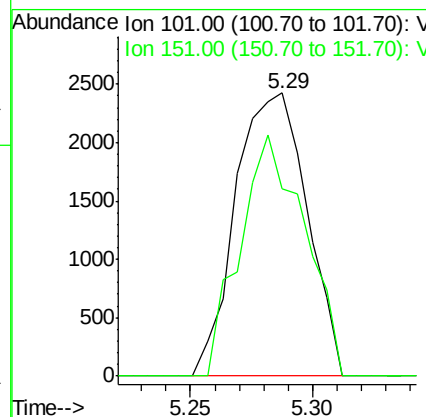
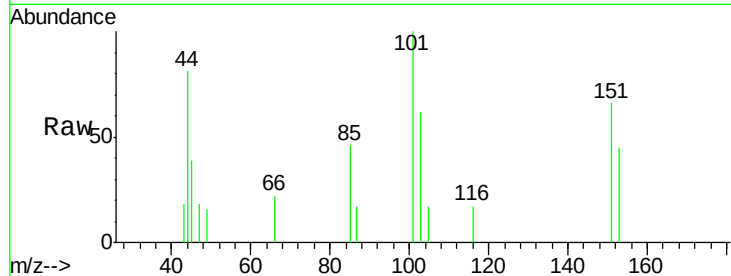




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.07 ppbv
 RT: 5.29 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL026227.D
 Acq: 21 Oct 2015 4:58

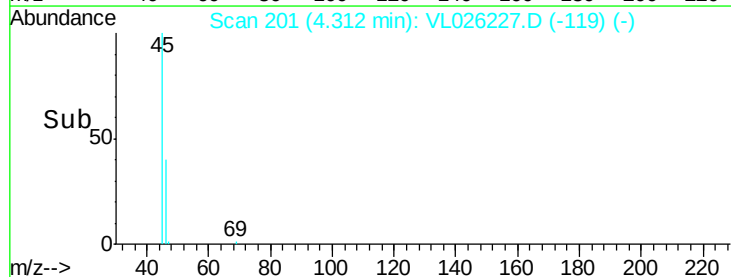
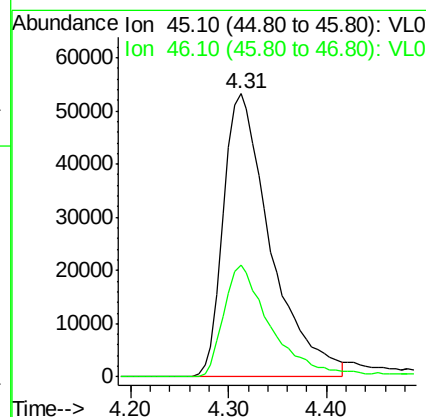
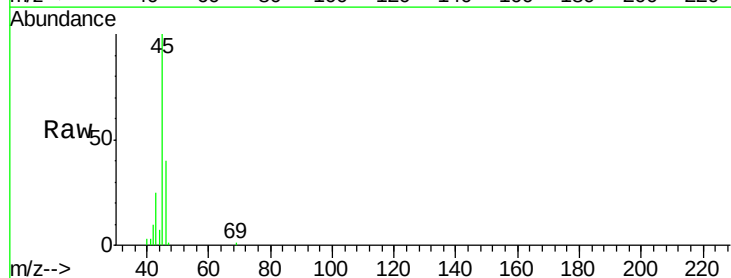
Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-239DUP

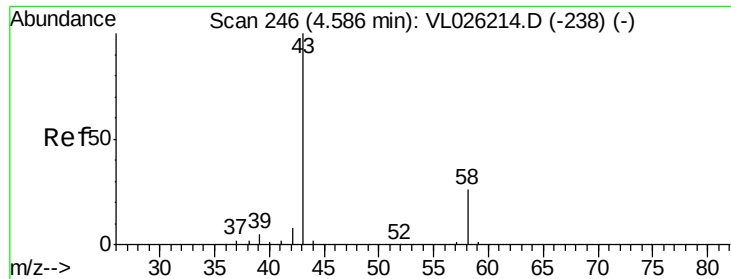
Tot Ion:101 Resp: 4901
 Ion Ratio Lower Upper
 101 100
 151 77.3 61.7 92.5



#13
 Ethanol
 Concen: 37.76 ppbv
 RT: 4.31 min Scan# 201
 Delta R.T. 0.00 min
 Lab File: VL026227.D
 Acq: 21 Oct 2015 4:58

Tgt Ion: 45 Resp: 178699
 Ion Ratio Lower Upper
 45 100
 46 41.0 15.8 63.0





#15

Acetone

Concen: 4.68 ppbv

RT: 4.59 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

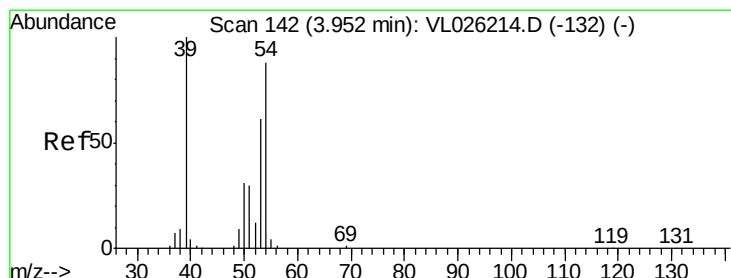
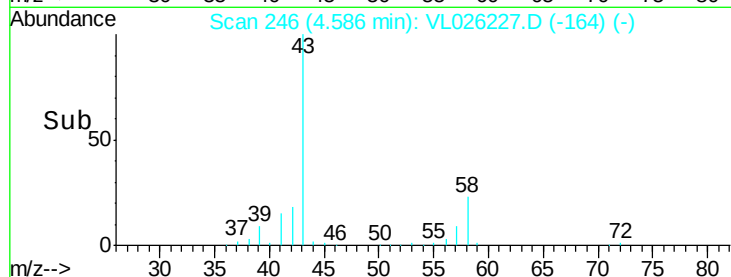
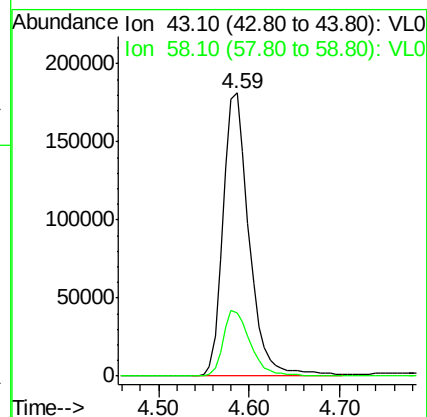
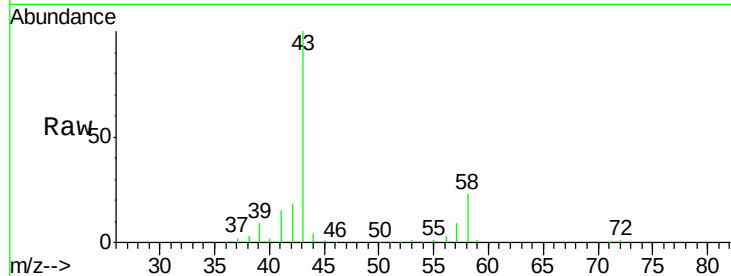
INDOOR-239DUP

Tot Ion: 43 Resp: 366517

Ion Ratio Lower Upper

43 100

58 24.2 21.8 32.6



#16

1,3-Butadiene

Concen: 0.30 ppbv

RT: 3.93 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL026227.D

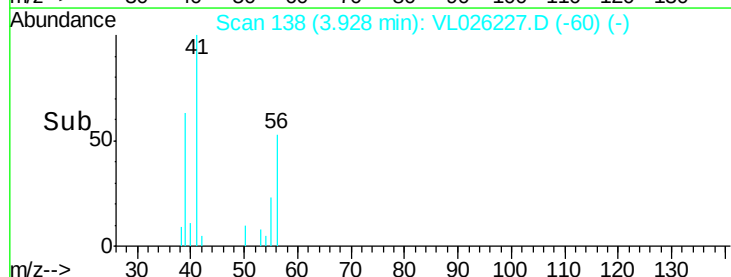
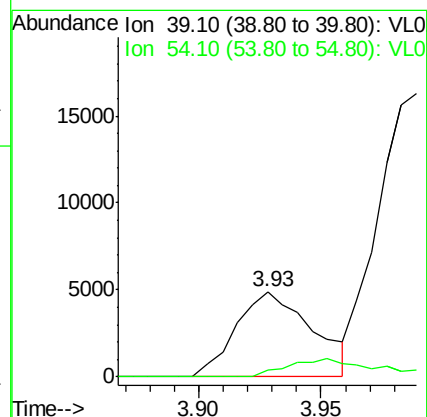
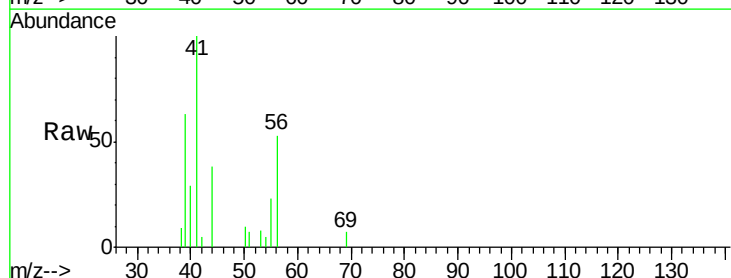
Acq: 21 Oct 2015 4:58

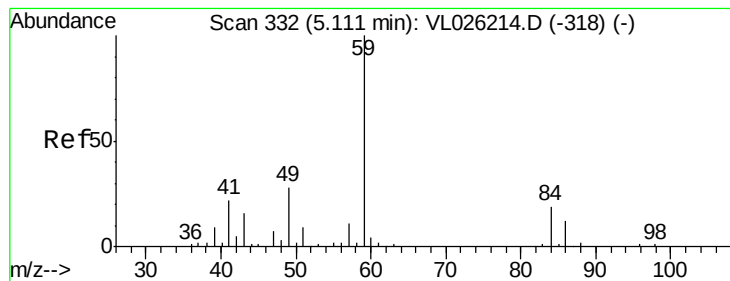
Tgt Ion: 39 Resp: 10651

Ion Ratio Lower Upper

39 100

54 23.4 67.3 100.9#





#17

tert-Butyl alcohol

Concen: 0.02 ppbv

RT: 5.17 min Scan# 342

Delta R.T. 0.06 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

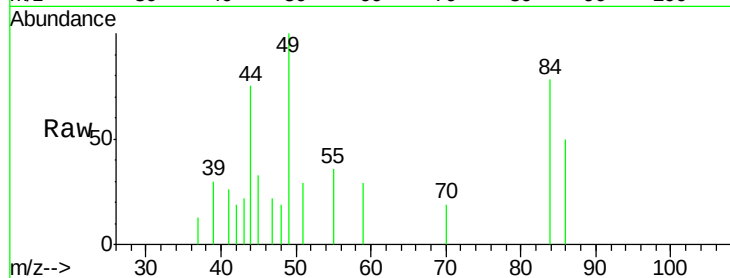
INDOOR-239DUP

Tot Ion: 59 Resp: 1190

Ion Ratio Lower Upper

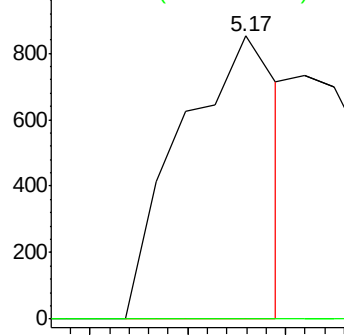
59 100

57 0.0 8.5 12.7#

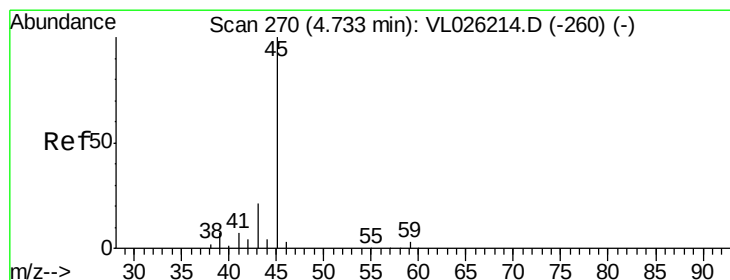
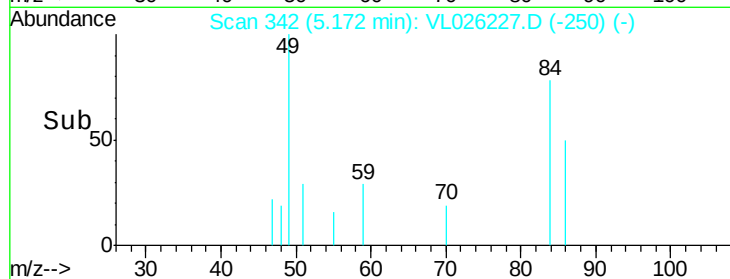


Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



Time-->



#19

Isopropyl Alcohol

Concen: 0.93 ppbv

RT: 4.76 min Scan# 274

Delta R.T. 0.02 min

Lab File: VL026227.D

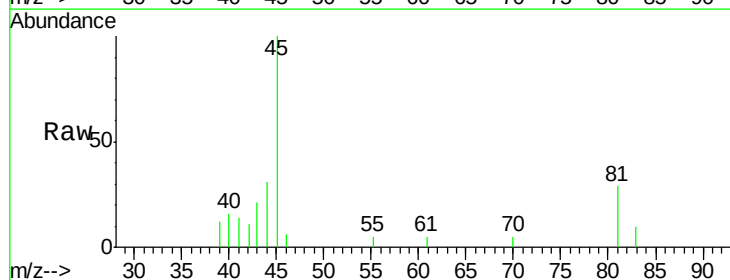
Acq: 21 Oct 2015 4:58

Tgt Ion: 45 Resp: 28599

Ion Ratio Lower Upper

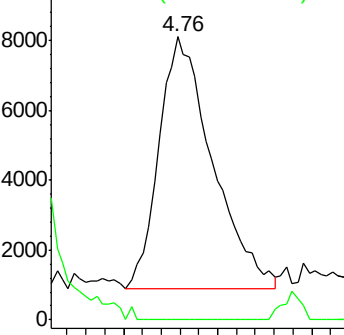
45 100

58 0.0 40.3 60.5#

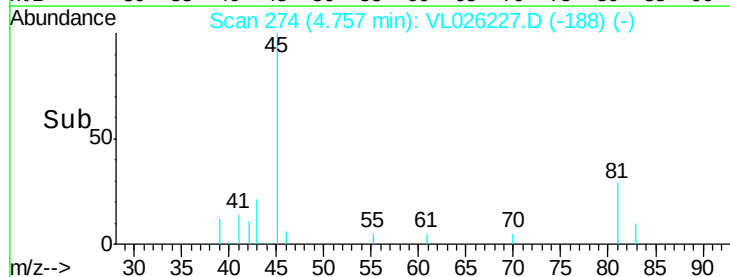


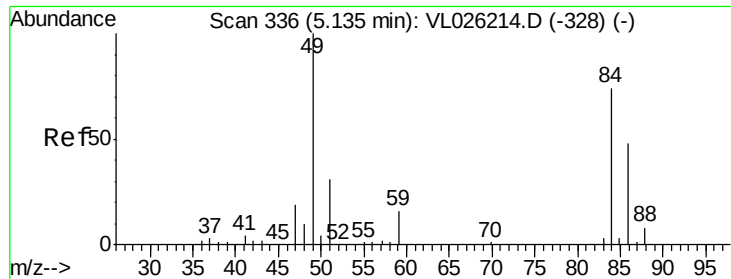
Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->

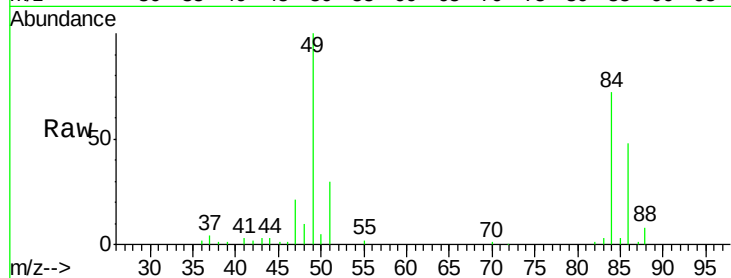




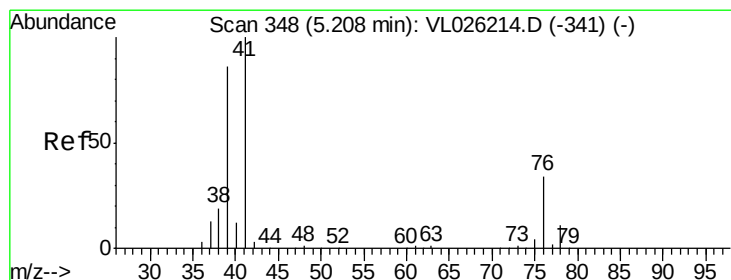
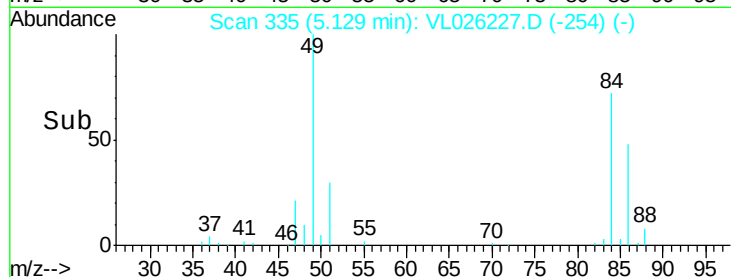
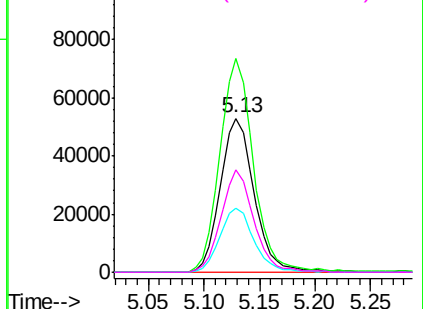
#20
Methylene Chloride
Concen: 3.58 ppbv
RT: 5.13 min Scan# 335
Delta R.T. -0.01 min
Lab File: VL026227.D
Acq: 21 Oct 2015 4:58

Instrument :
MSVOA_L
ClientSampleId :
INDOOR-239DUP

Tot Ion: 84 Resp: 111945
Ion Ratio Lower Upper
84 100
49 138.8 108.7 163.1
51 42.0 33.7 50.5
86 66.4 52.2 78.2

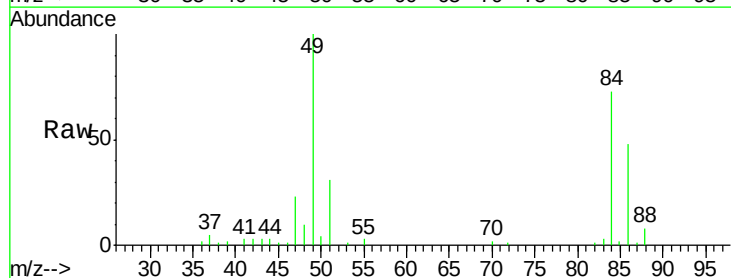


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

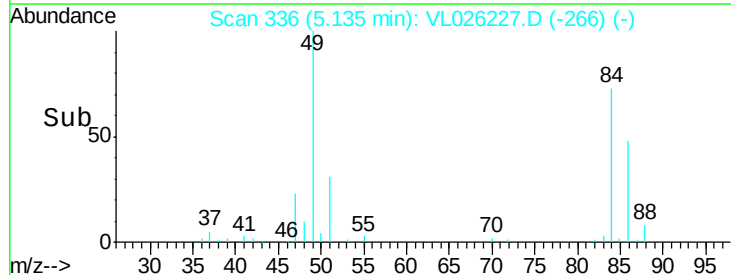
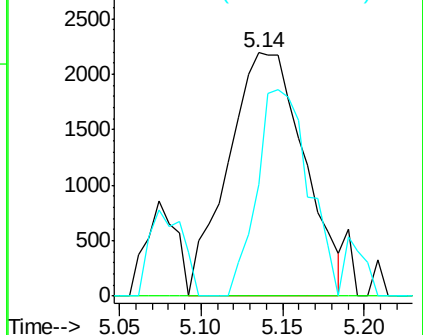


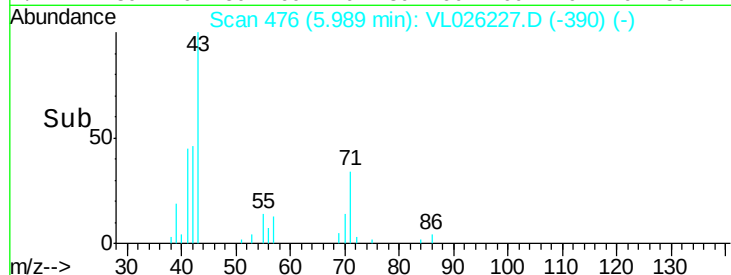
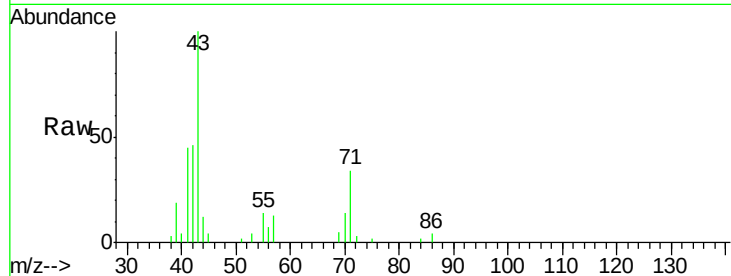
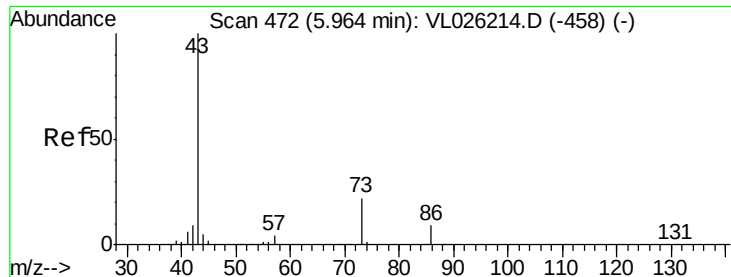
#21
Allyl Chloride
Concen: 0.14 ppbv
RT: 5.14 min Scan# 336
Delta R.T. -0.07 min
Lab File: VL026227.D
Acq: 21 Oct 2015 4:58

Tgt Ion: 41 Resp: 7109
Ion Ratio Lower Upper
41 100
76 0.0 26.6 39.8#
39 63.9 67.4 101.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.34 ppbv

RT: 5.99 min Scan# 476

Delta R.T. 0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

Tot Ion: 43 Resp: 49421

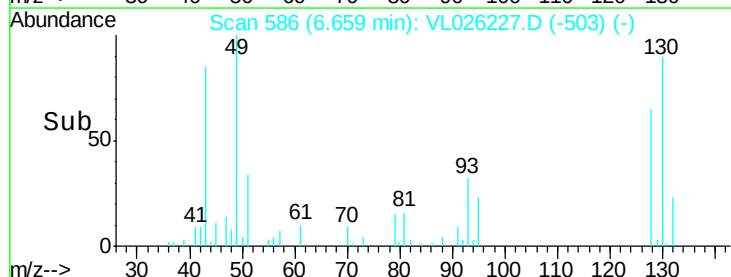
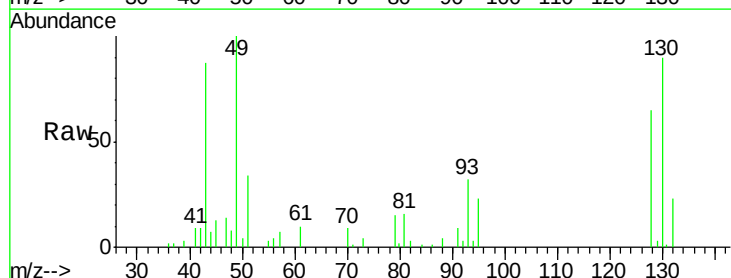
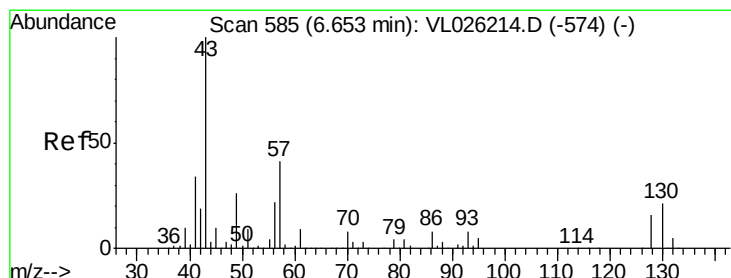
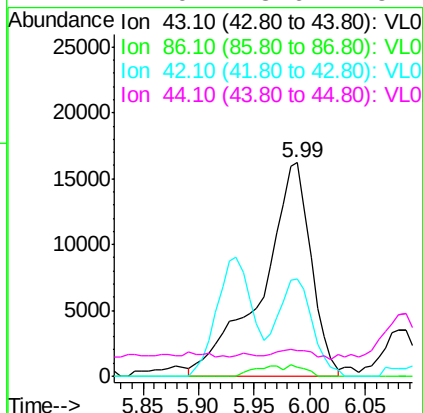
Ion Ratio Lower Upper

43 100

86 4.5 7.0 10.6#

42 47.0 7.5 11.3#

44 2.0 3.6 5.4#



#25

Ethyl Acetate

Concen: 0.40 ppbv

RT: 6.66 min Scan# 586

Delta R.T. 0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Tgt Ion: 43 Resp: 59487

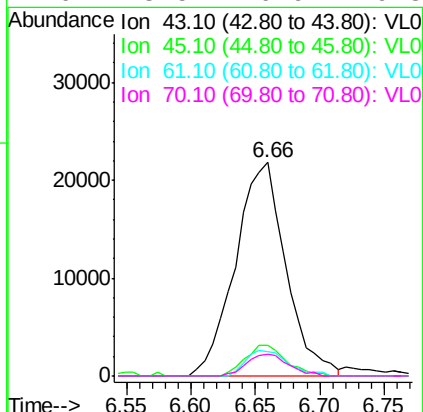
Ion Ratio Lower Upper

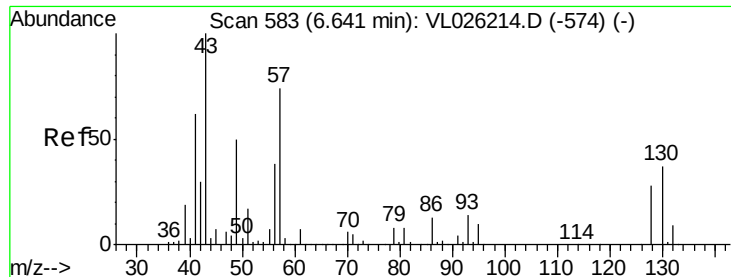
43 100

45 11.7 7.7 11.5#

61 10.1 7.5 11.3

70 8.5 6.9 10.3





#26

Hexane

Concen: 0.30 ppbv

RT: 6.64 min Scan# 583

Delta R.T. 0.00 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

Tot Ion: 57 Resp: 22108

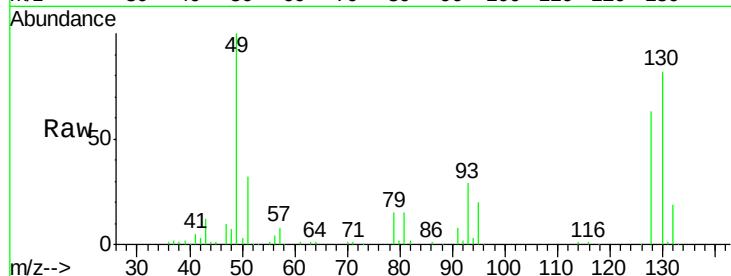
Ion Ratio Lower Upper

57 100

41 95.8 68.1 102.1

43 281.2 163.4 245.2#

56 54.0 42.2 63.4

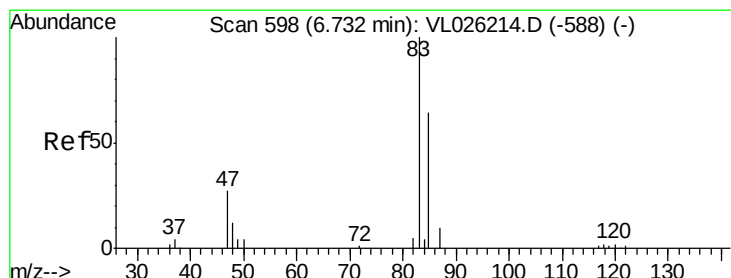
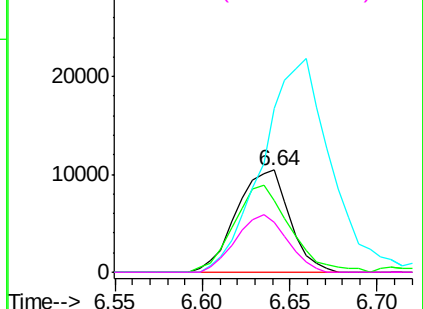
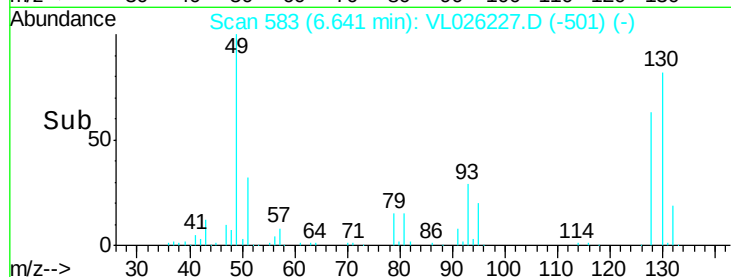


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.06 ppbv

RT: 6.72 min Scan# 596

Delta R.T. -0.01 min

Lab File: VL026227.D

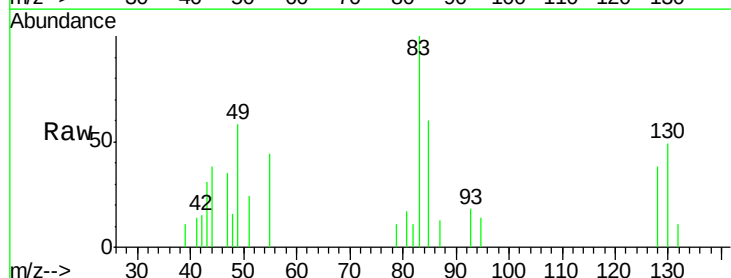
Acq: 21 Oct 2015 4:58

Tgt Ion: 83 Resp: 6292

Ion Ratio Lower Upper

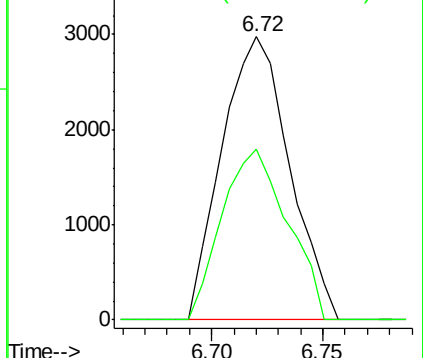
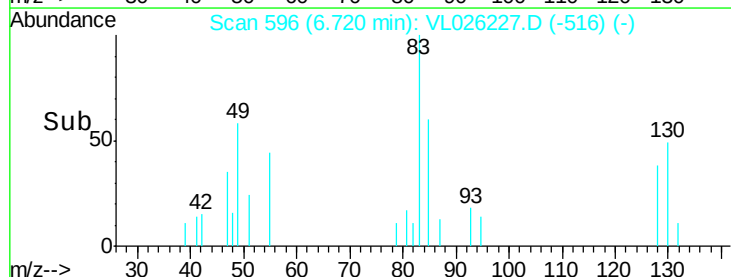
83 100

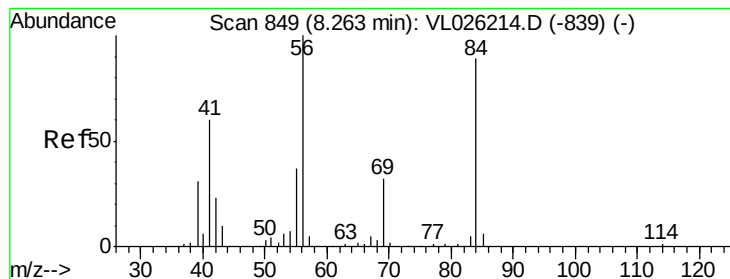
85 60.4 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#30

Cyclohexane

Concen: 0.11 ppbv

RT: 8.26 min Scan# 848

Delta R.T. -0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

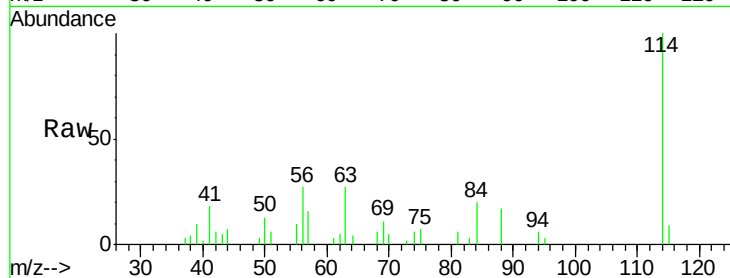
Tot Ion: 84 Resp: 8083

Ion Ratio Lower Upper

84 100

56 582.3 95.9 143.9#

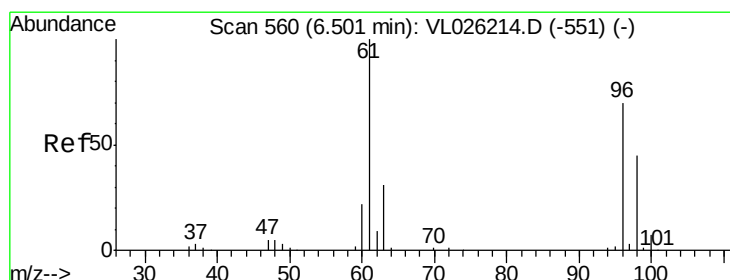
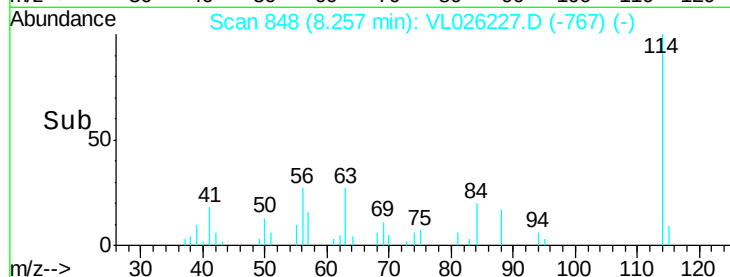
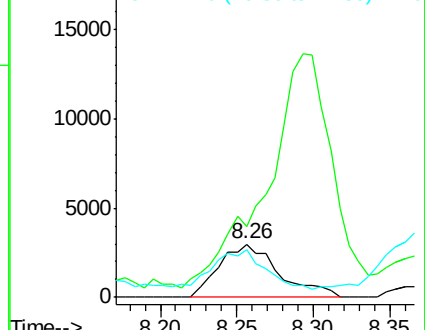
41 103.9 54.8 82.2#



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



#31

cis-1,2-Dichloroethene

Concen: 0.02 ppbv

RT: 6.49 min Scan# 558

Delta R.T. -0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

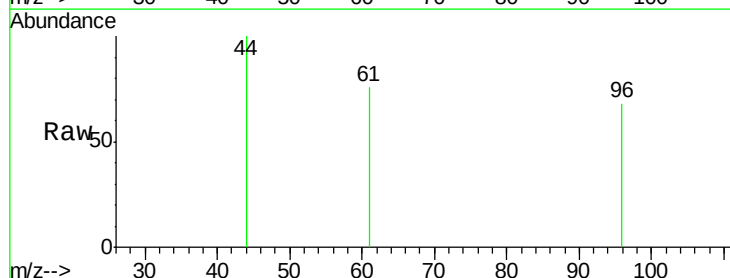
Tgt Ion: 61 Resp: 1357

Ion Ratio Lower Upper

61 100

96 89.6 56.0 84.0#

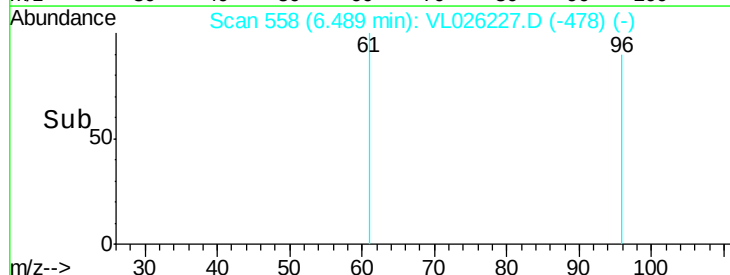
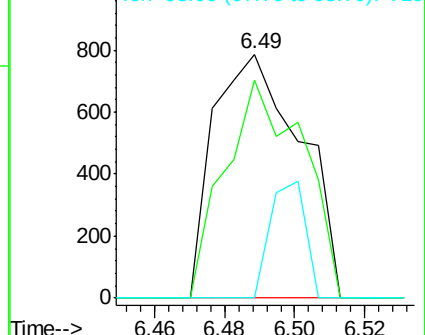
98 0.0 36.1 54.1#

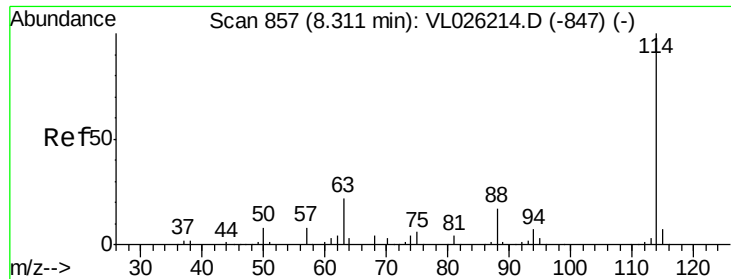


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0

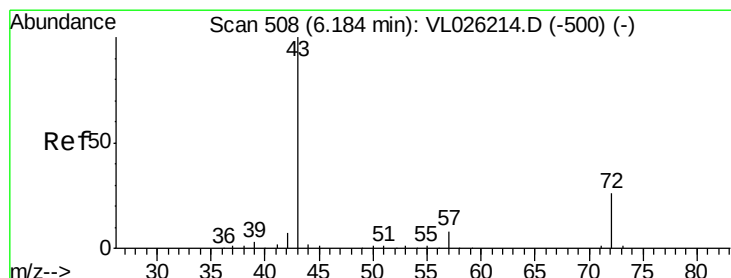
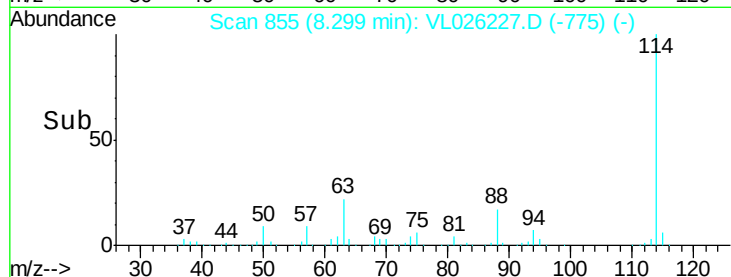
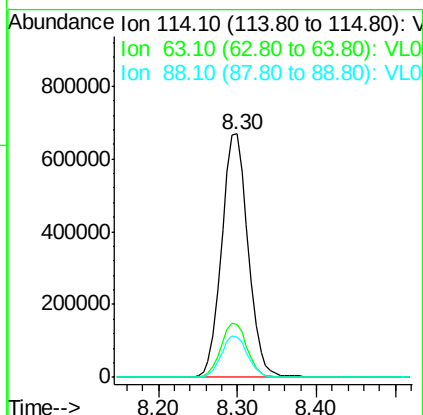
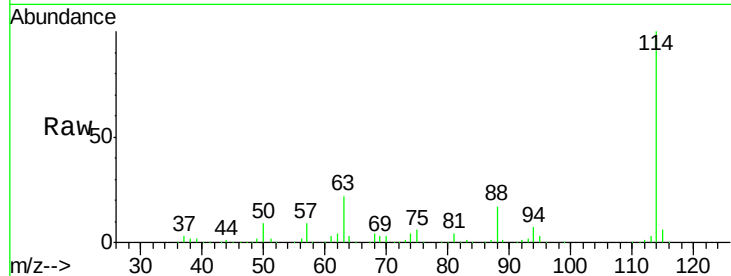




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.30 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: VL026227.D
 Acq: 21 Oct 2015 4:58

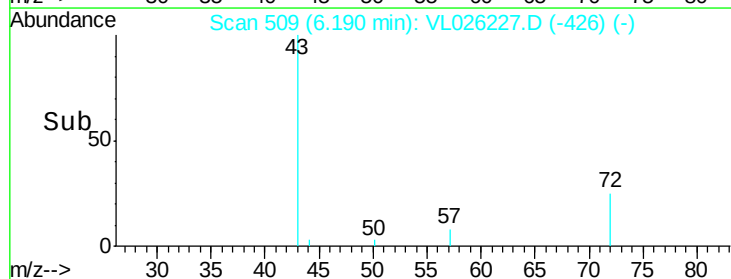
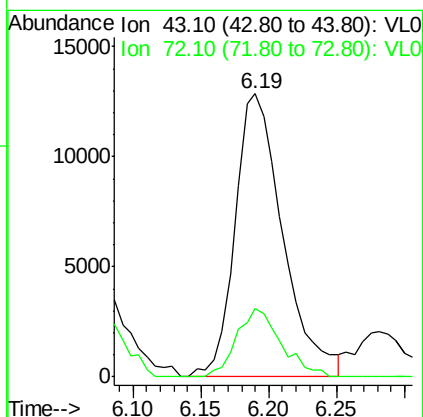
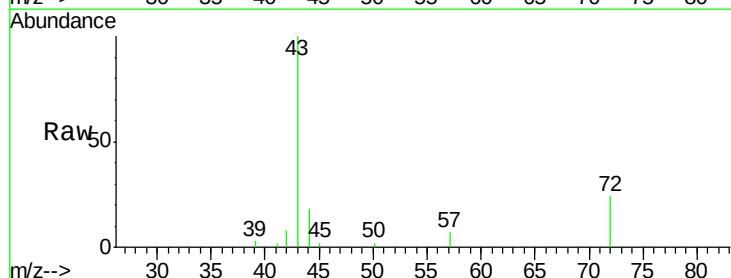
Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-239DUP

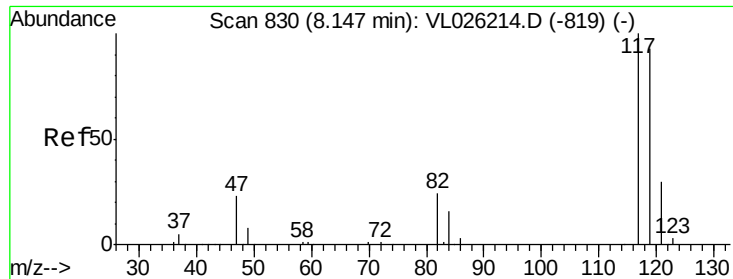
Tot Ion:114 Resp: 1563106
 Ion Ratio Lower Upper
 114 100
 63 22.3 18.2 27.4
 88 17.0 13.5 20.3



#34
 2-Butanone
 Concen: 0.36 ppbv
 RT: 6.19 min Scan# 509
 Delta R.T. 0.01 min
 Lab File: VL026227.D
 Acq: 21 Oct 2015 4:58

Tgt Ion: 43 Resp: 31612
 Ion Ratio Lower Upper
 43 100
 72 22.4 20.1 30.1





#35

Carbon Tetrachloride

Concen: 0.07 ppbv

RT: 8.13 min Scan# 827

Delta R.T. -0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

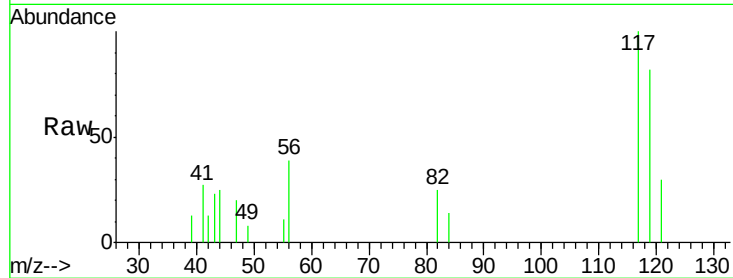
Tot Ion:117 Resp: 8417

Ion Ratio Lower Upper

117 100

119 81.6 74.6 111.8

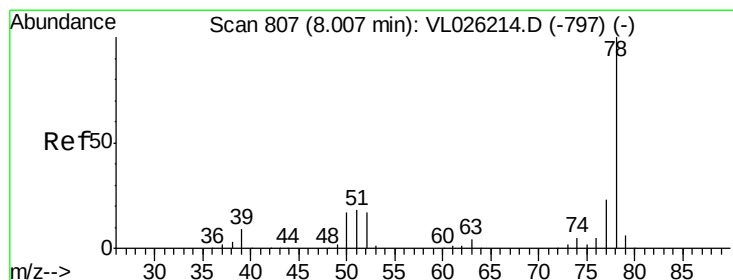
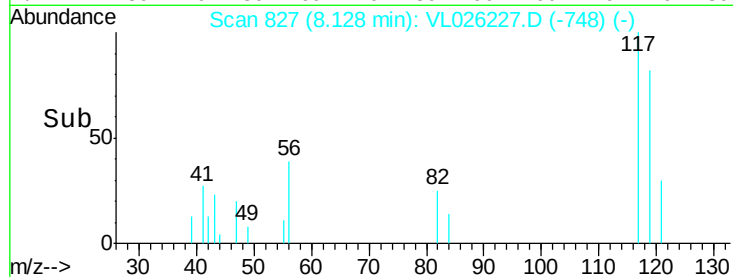
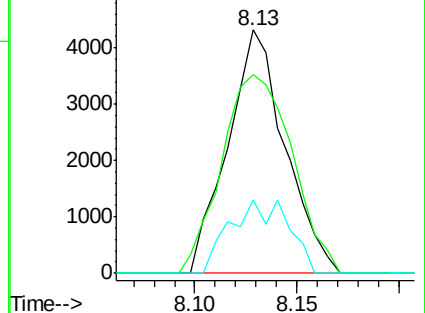
121 30.2 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.29 ppbv

RT: 7.99 min Scan# 805

Delta R.T. -0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

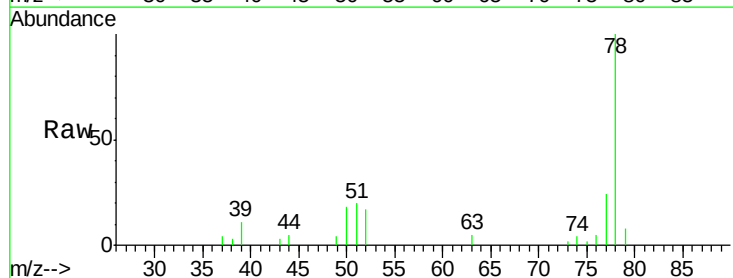
Tgt Ion: 78 Resp: 45704

Ion Ratio Lower Upper

78 100

77 23.7 18.1 27.1

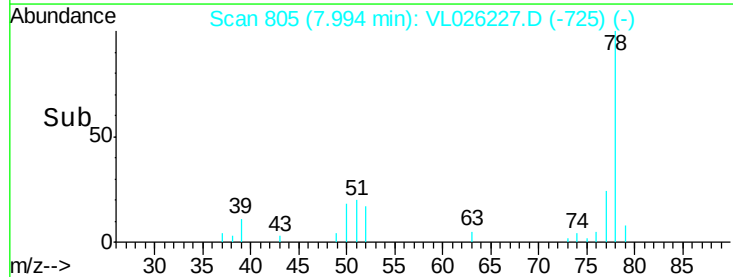
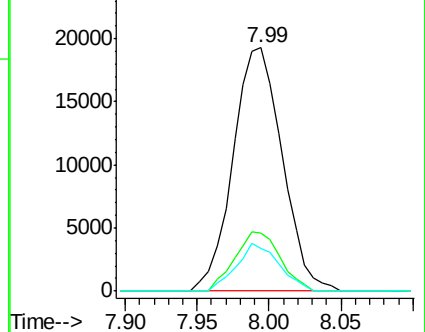
50 17.7 13.8 20.8

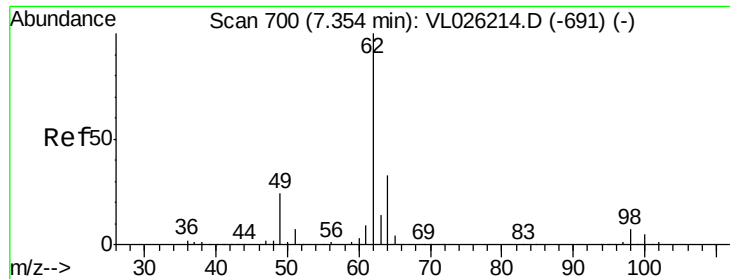


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

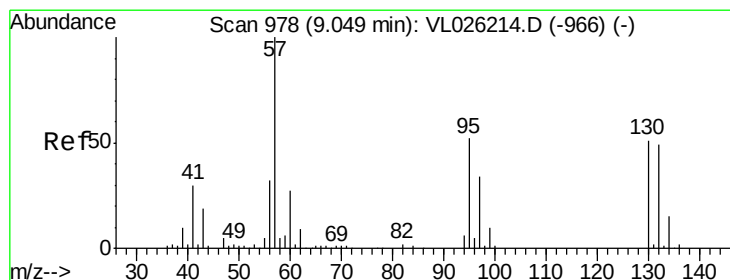
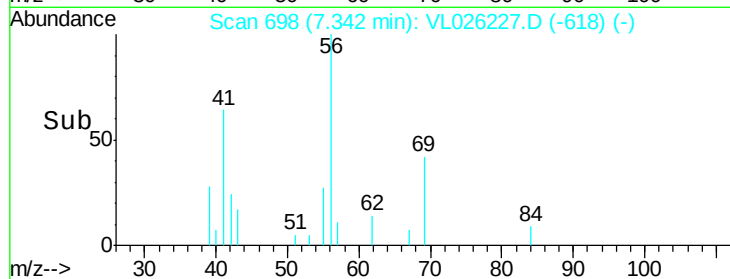
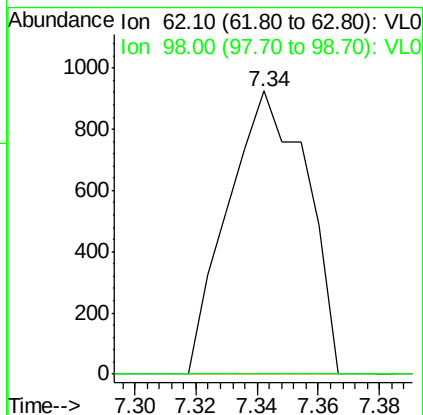
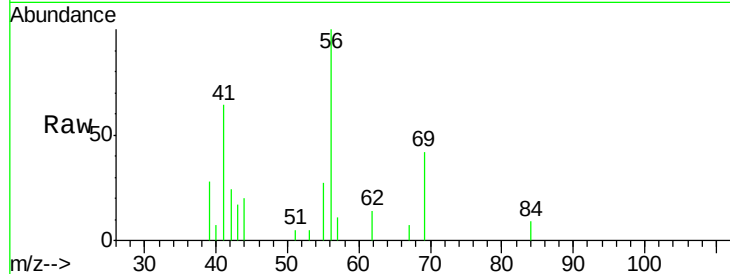




#37
 1,2-Dichloroethane
 Concen: 0.02 ppbv
 RT: 7.34 min Scan# 698
 Delta R.T. -0.01 min
 Lab File: VL026227.D
 Acq: 21 Oct 2015 4:58

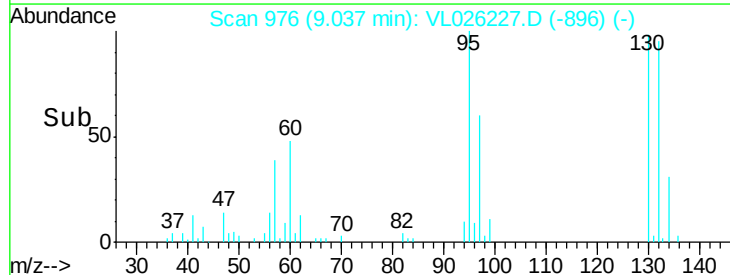
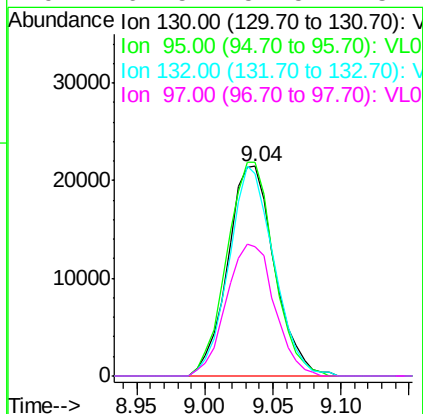
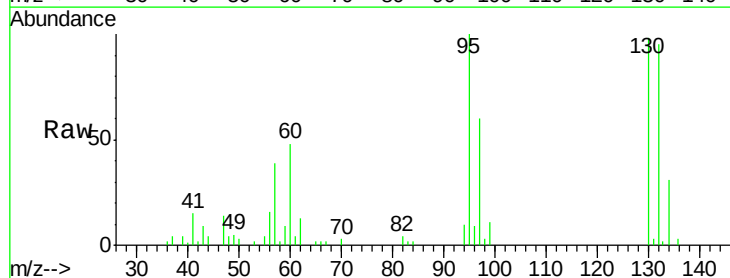
Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-239DUP

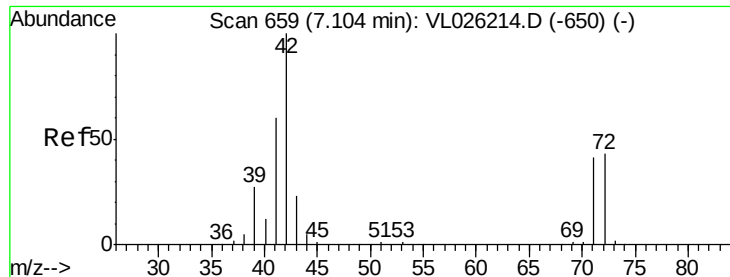
Tot Ion: 62 Resp: 1651
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.1 9.1#



#38
 Trichloroethene
 Concen: 0.67 ppbv
 RT: 9.04 min Scan# 976
 Delta R.T. -0.01 min
 Lab File: VL026227.D
 Acq: 21 Oct 2015 4:58

Tgt Ion: 130 Resp: 51526
 Ion Ratio Lower Upper
 130 100
 95 101.8 81.0 121.4
 132 96.7 76.5 114.7
 97 61.5 52.5 78.7





#41

Tetrahydrofuran

Concen: 0.10 ppbv

RT: 7.13 min Scan# 663

Delta R.T. 0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

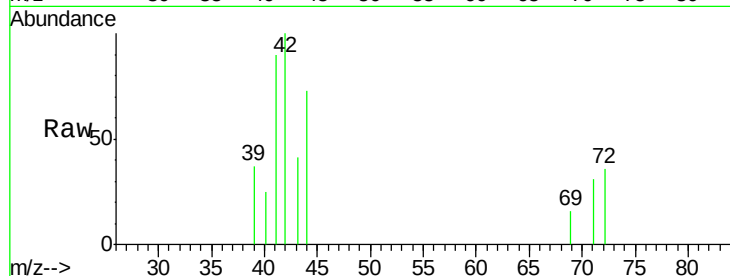
Tot Ion: 42 Resp: 5030

Ion Ratio Lower Upper

42 100

72 22.1 34.3 51.5#

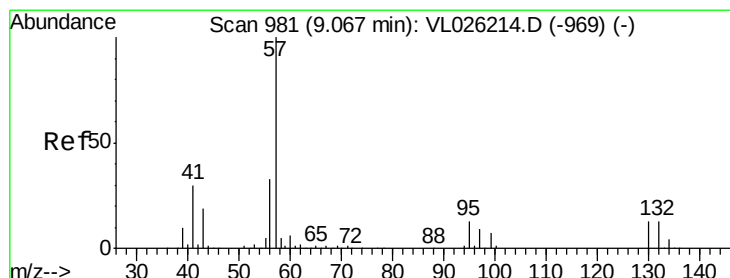
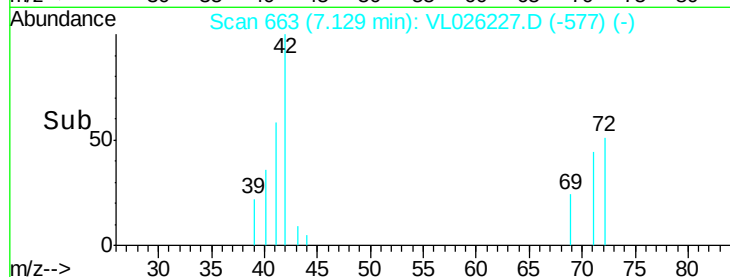
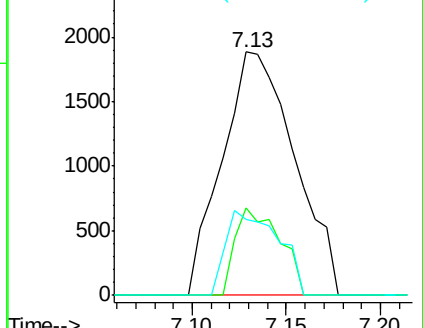
71 25.1 32.1 48.1#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.15 ppbv

RT: 9.06 min Scan# 979

Delta R.T. -0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

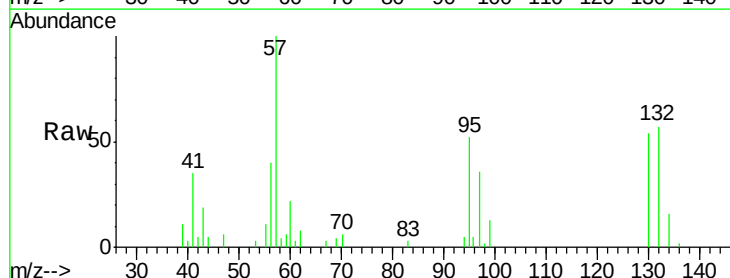
Tgt Ion: 57 Resp: 38462

Ion Ratio Lower Upper

57 100

41 34.9 23.7 35.5

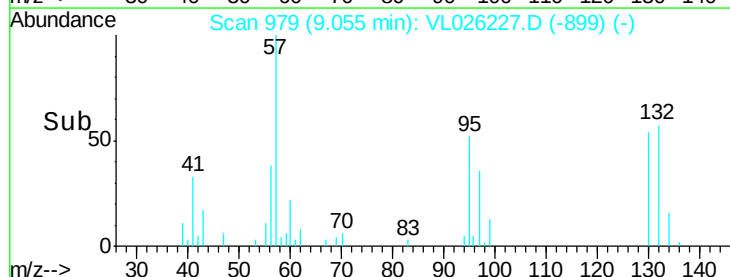
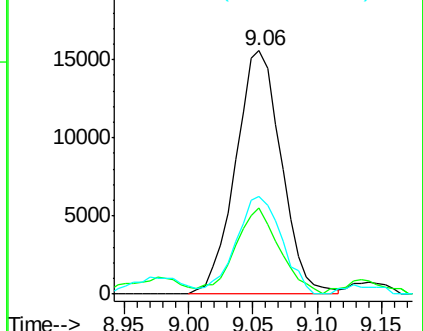
56 42.6 25.9 38.9#

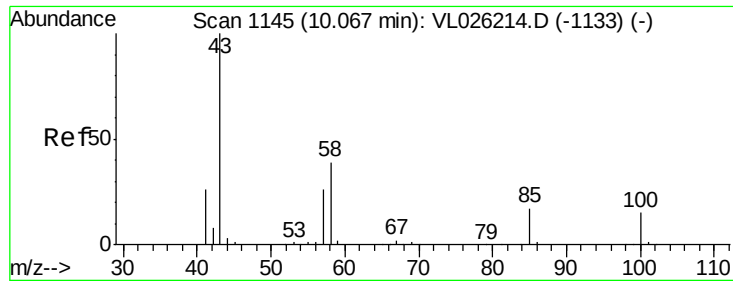


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

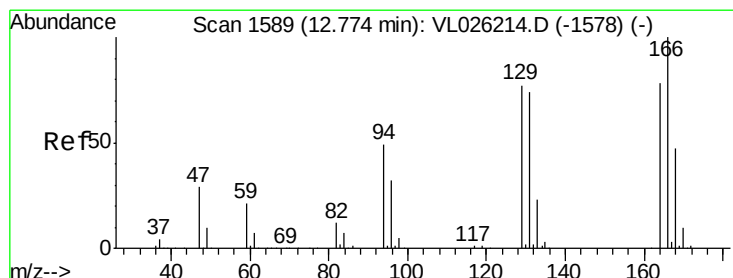
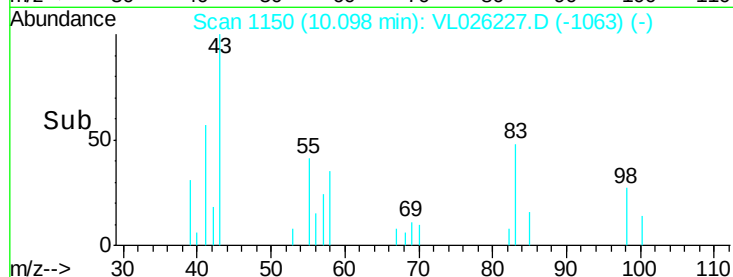
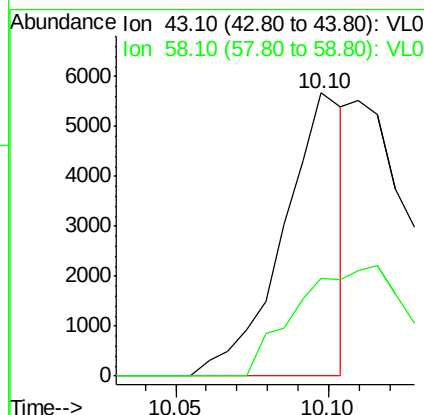
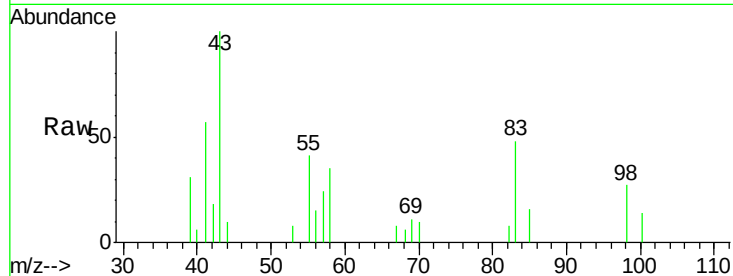




#50
4-Methyl-2-Pentanone
Concen: 0.07 ppbv
RT: 10.10 min Scan# 1150
Delta R.T. 0.03 min
Lab File: VL026227.D
Acq: 21 Oct 2015 4:58

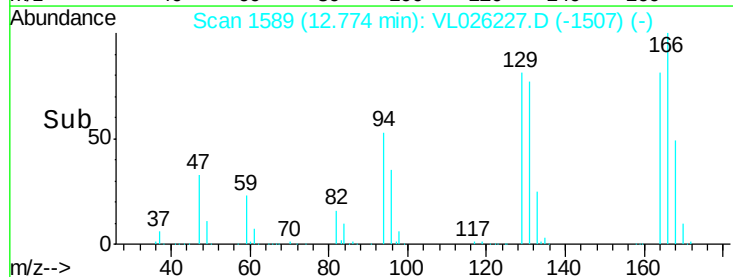
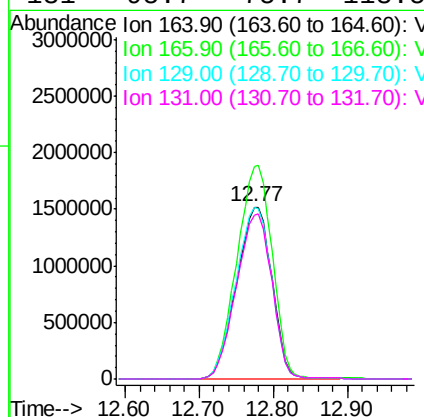
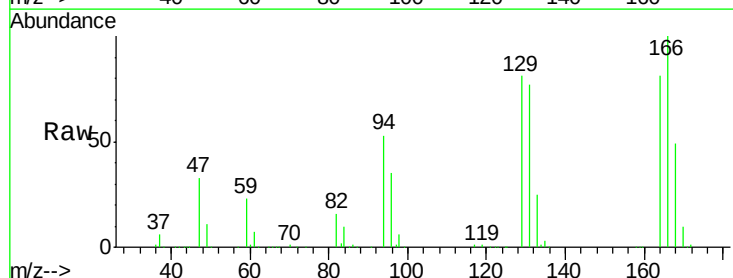
Instrument :
MSVOA_L
ClientSampleId :
INDOOR-239DUP

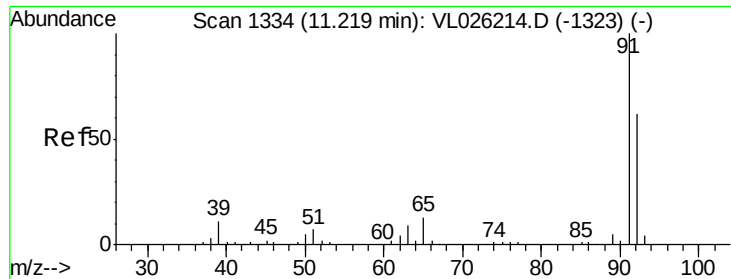
Tot Ion: 43 Resp: 7930
Ion Ratio Lower Upper
43 100
58 0.0 31.1 46.7#



#52
Tetrachloroethene
Concen: 55.59 ppbv
RT: 12.77 min Scan# 1589
Delta R.T. 0.00 min
Lab File: VL026227.D
Acq: 21 Oct 2015 4:58

Tgt Ion: 164 Resp: 5074945
Ion Ratio Lower Upper
164 100
166 123.7 102.3 153.5
129 99.8 78.2 117.4
131 95.7 75.7 113.5





#53

Toluene

Concen: 1.41 ppbv

RT: 11.20 min Scan# 1331

Delta R.T. -0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

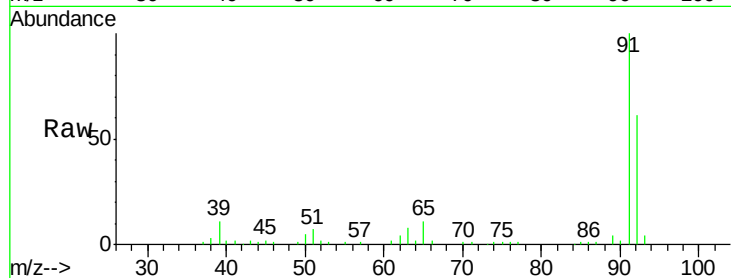
INDOOR-239DUP

Tot Ion: 91 Resp: 304920

Ion Ratio Lower Upper

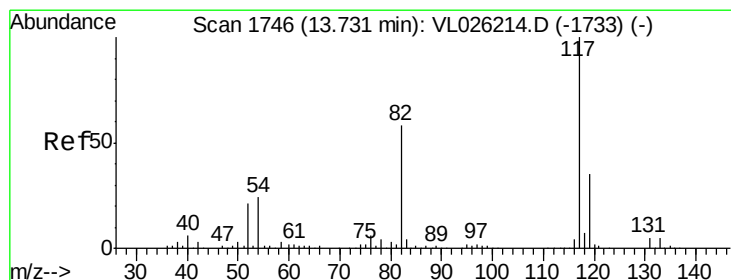
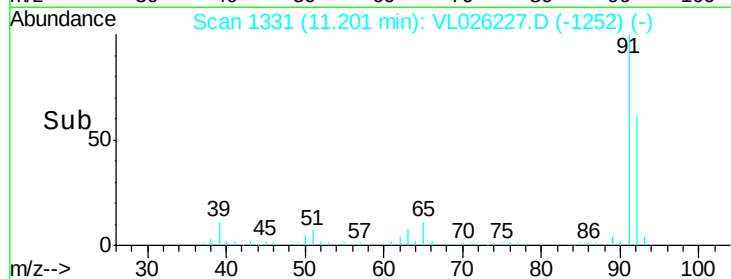
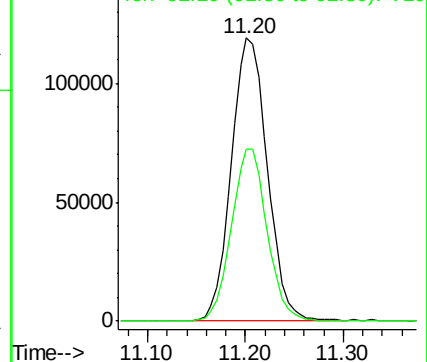
91 100

92 60.0 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.71 min Scan# 1743

Delta R.T. -0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

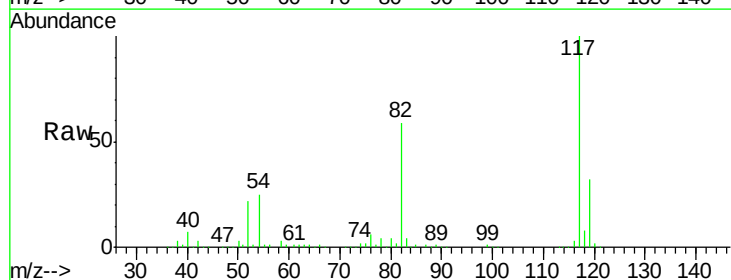
Tgt Ion: 117 Resp: 1864600

Ion Ratio Lower Upper

117 100

82 59.9 45.8 68.8

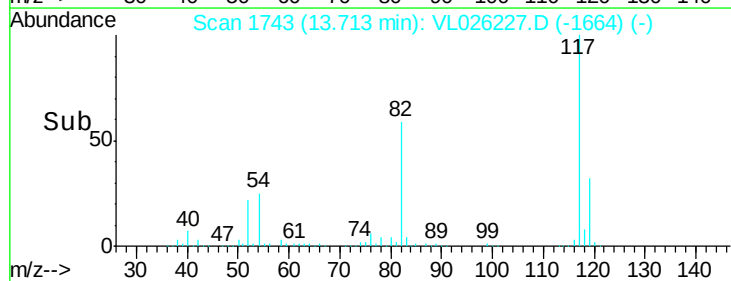
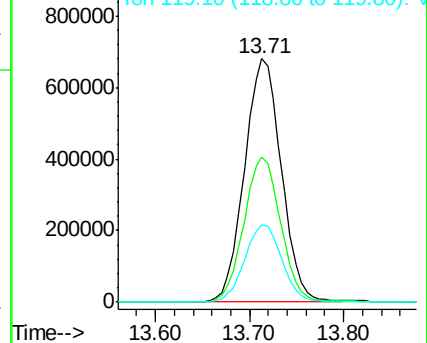
119 32.5 45.0 67.4#

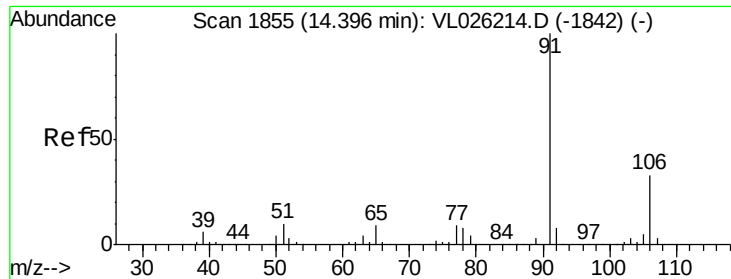


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.12 ppbv

RT: 14.38 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

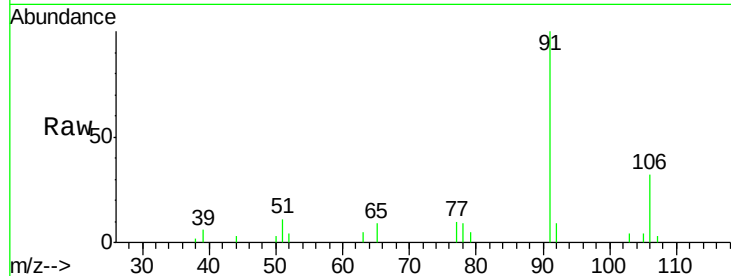
INDOOR-239DUP

Tot Ion: 91 Resp: 37102

Ion Ratio Lower Upper

91 100

106 32.2 26.1 39.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

14.38

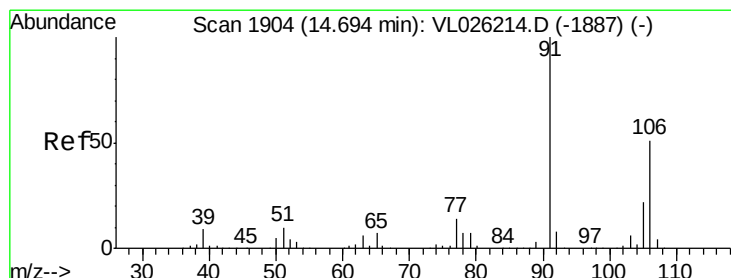
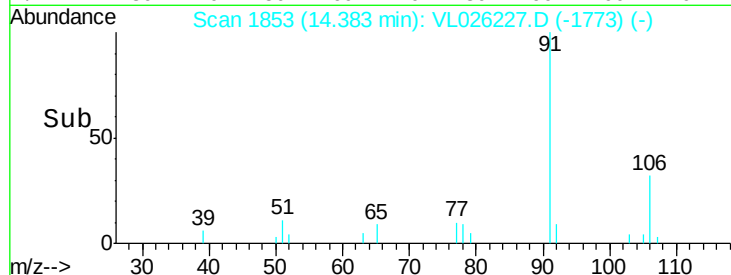
15000

10000

5000

0

Time-->



#59

m/p-Xylene

Concen: 0.39 ppbv

RT: 14.66 min Scan# 1898

Delta R.T. -0.04 min

Lab File: VL026227.D

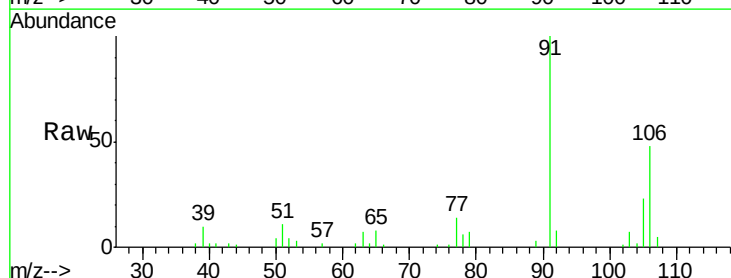
Acq: 21 Oct 2015 4:58

Tgt Ion: 91 Resp: 93355

Ion Ratio Lower Upper

91 100

106 51.2 40.6 61.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

14.66

30000

25000

20000

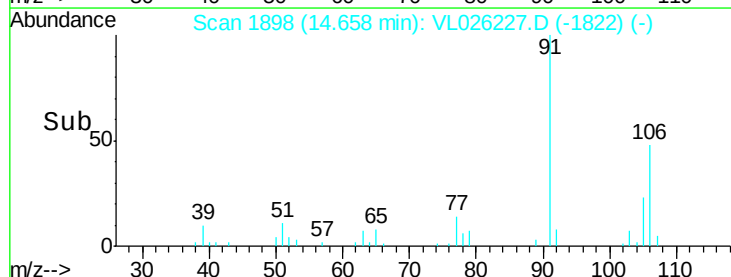
15000

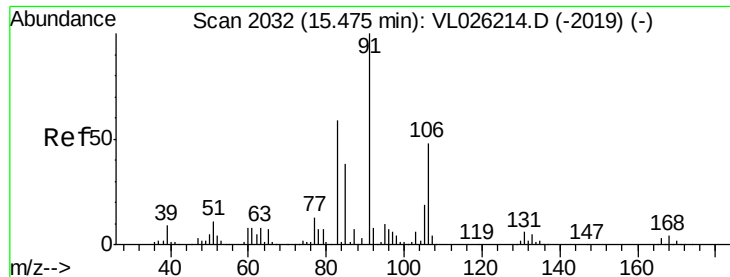
10000

5000

0

Time-->

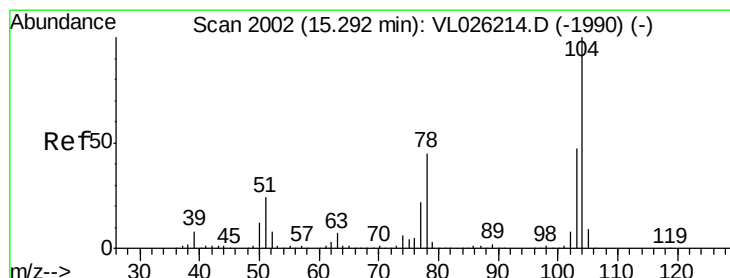
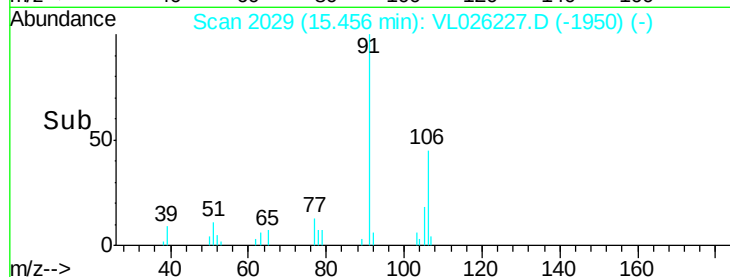
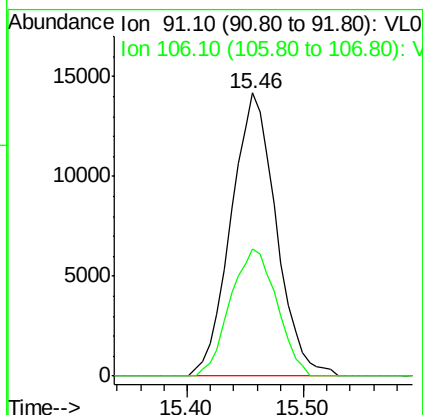
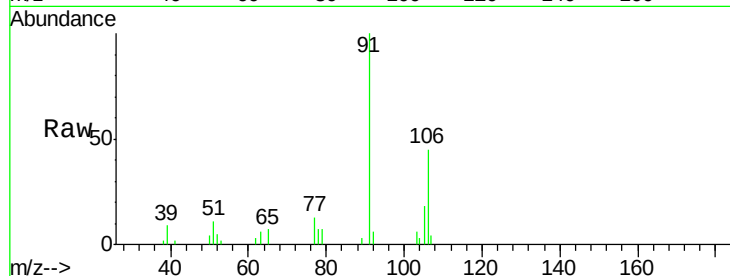




#60
o-Xylene
Concen: 0.15 ppbv
RT: 15.46 min Scan# 2029
Delta R.T. -0.02 min
Lab File: VL026227.D
Acq: 21 Oct 2015 4:58

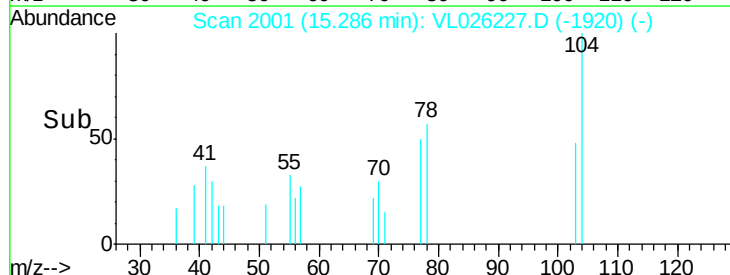
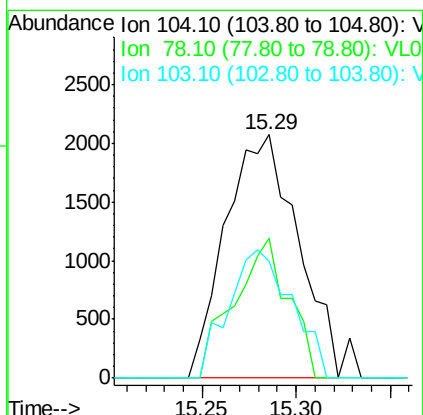
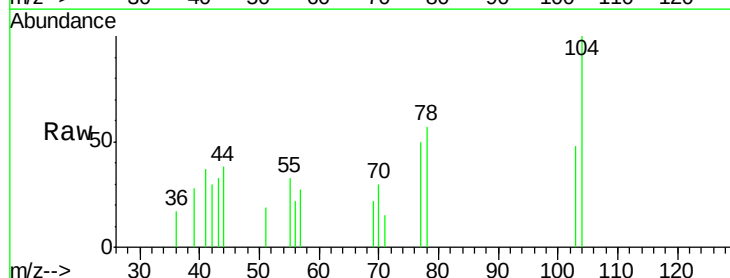
Instrument :
MSVOA_L
ClientSampleId :
INDOOR-239DUP

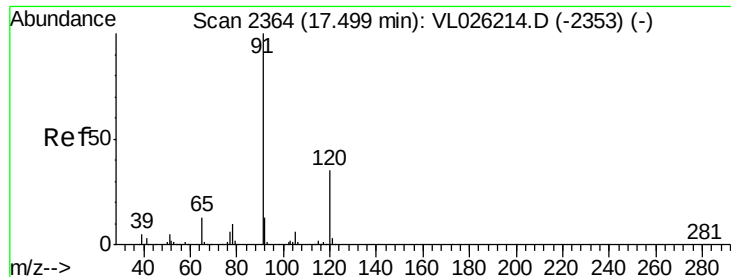
Tot Ion: 91 Resp: 38171
Ion Ratio Lower Upper
91 100
106 46.1 23.8 71.5



#61
Styrene
Concen: 0.05 ppbv
RT: 15.29 min Scan# 2001
Delta R.T. -0.01 min
Lab File: VL026227.D
Acq: 21 Oct 2015 4:58

Tgt Ion: 104 Resp: 5495
Ion Ratio Lower Upper
104 100
78 43.3 35.3 52.9
103 46.2 37.0 55.4





#64

n-propylbenzene

Concen: 0.05 ppbv

RT: 17.49 min Scan# 2362

Delta R.T. -0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

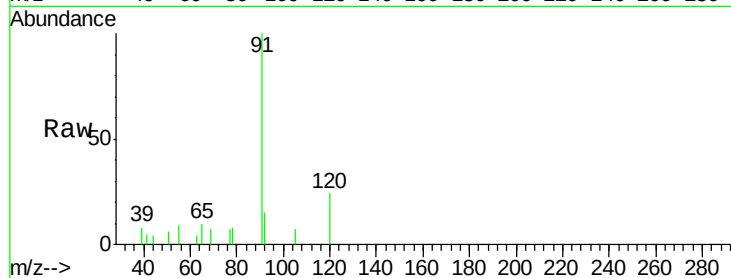
INDOOR-239DUP

Tot Ion:120 Resp: 4660

Ion Ratio Lower Upper

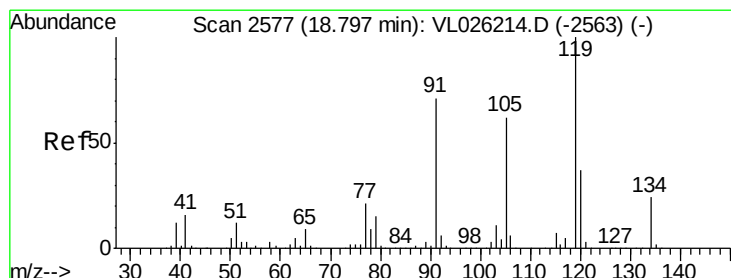
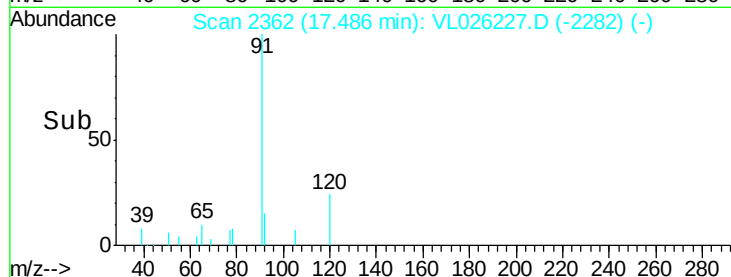
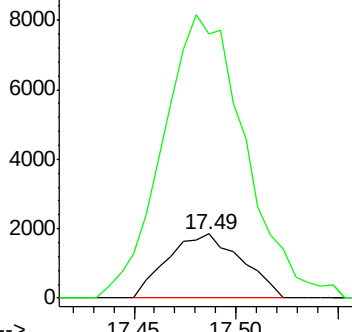
120 100

91 493.5 331.7 497.5



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.03 ppbv

RT: 18.79 min Scan# 2576

Delta R.T. -0.01 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

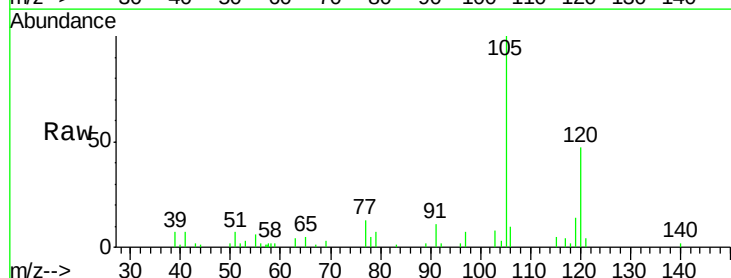
Tgt Ion:119 Resp: 9676

Ion Ratio Lower Upper

119 100

91 80.9 57.5 86.3

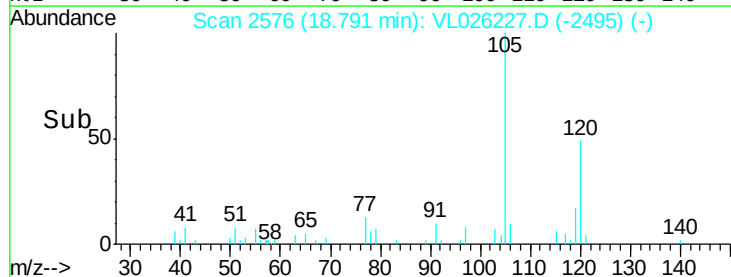
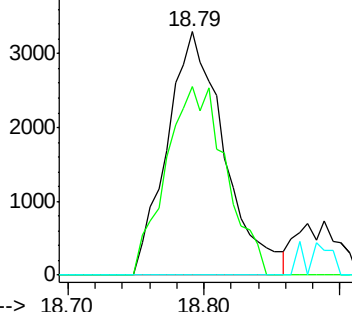
134 0.0 18.1 27.1#

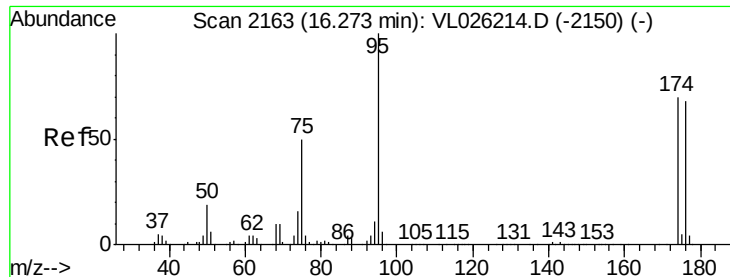


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.23 ppbv

RT: 16.25 min Scan# 2159

Delta R.T. -0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

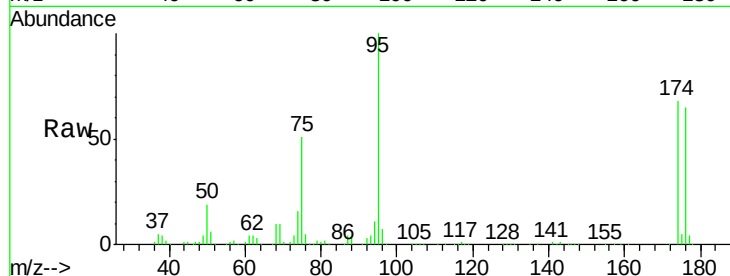
Tot Ion: 95 Resp: 1470569

Ion Ratio Lower Upper

95 100

174 68.9 55.8 83.8

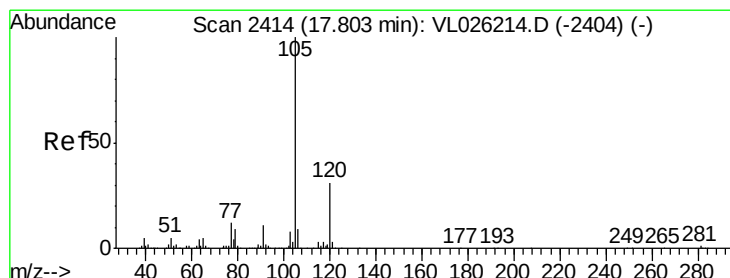
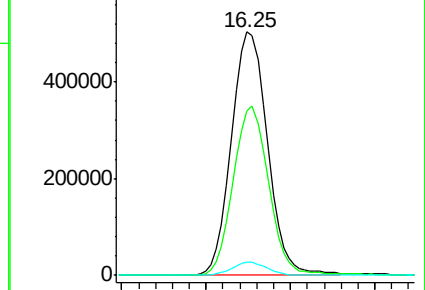
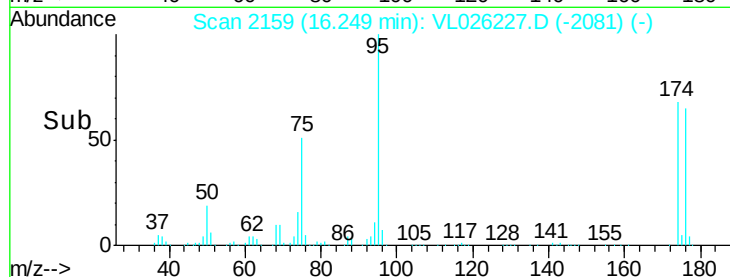
175 5.3 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#72

4-Ethyltoluene

Concen: 0.11 ppbv

RT: 17.79 min Scan# 2411

Delta R.T. -0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Tgt Ion: 105 Resp: 30746

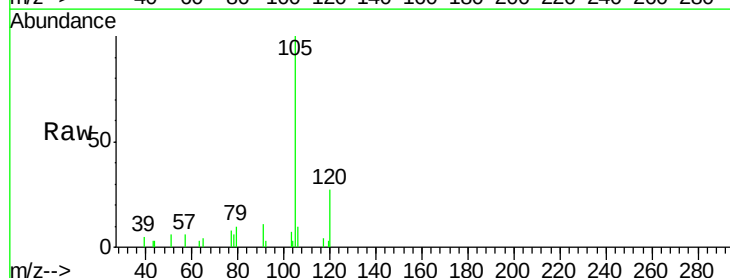
Ion Ratio Lower Upper

105 100

120 27.1 25.2 37.8

91 11.3 9.0 13.6

77 9.5 9.7 14.5#

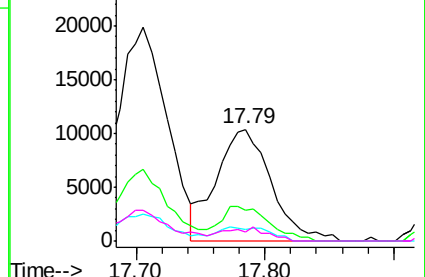
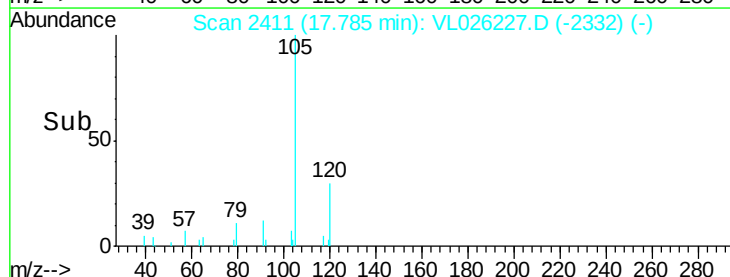


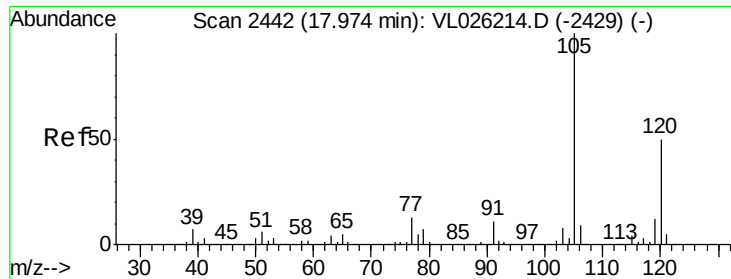
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

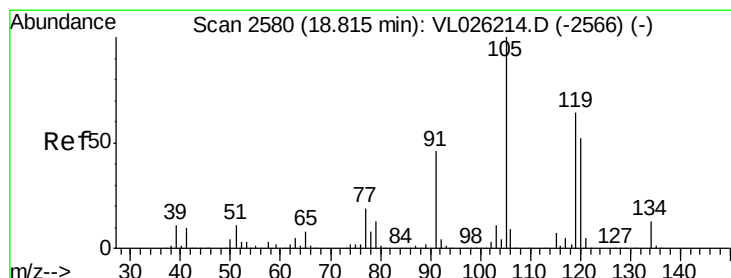
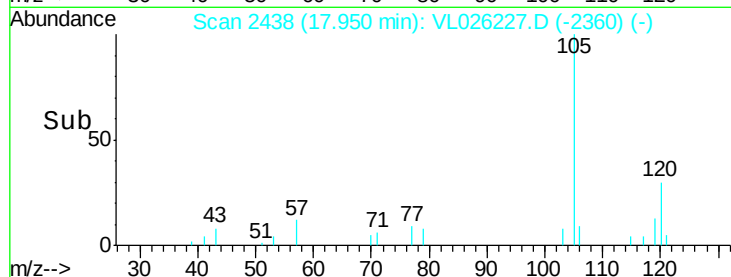
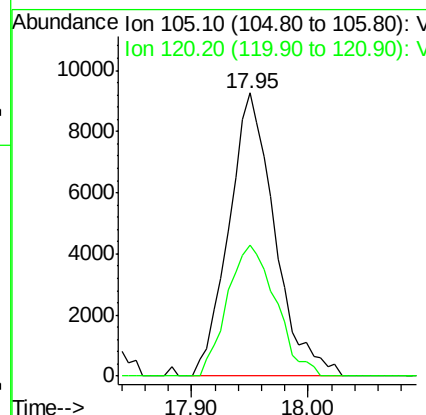
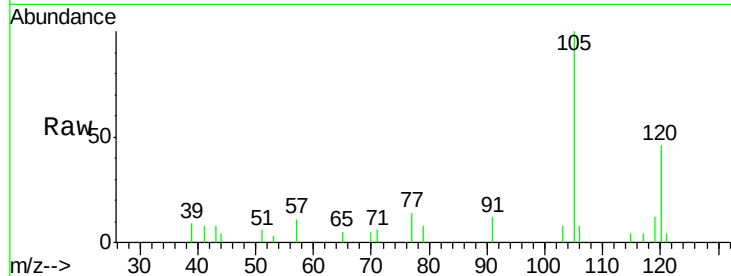




#73
 1,3,5-Trimethylbenzene
 Concen: 0.09 ppbv
 RT: 17.95 min Scan# 2438
 Delta R.T. -0.02 min
 Lab File: VL026227.D
 Acq: 21 Oct 2015 4:58

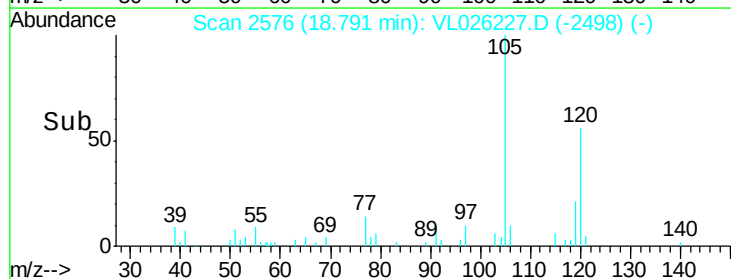
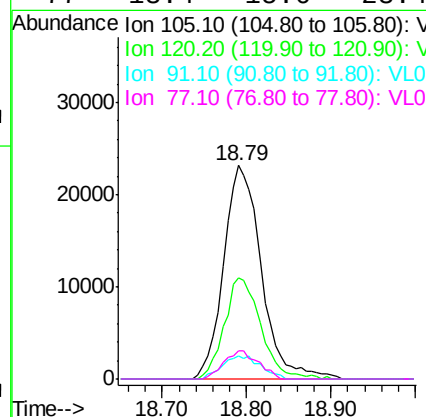
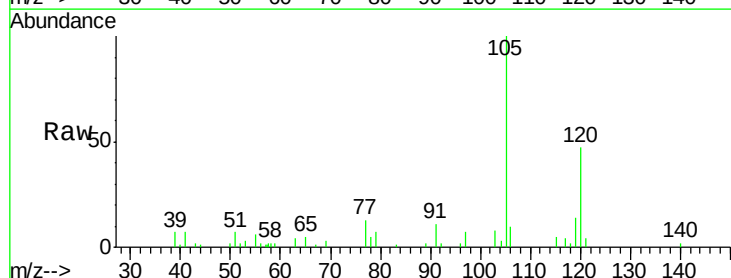
Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-239DUP

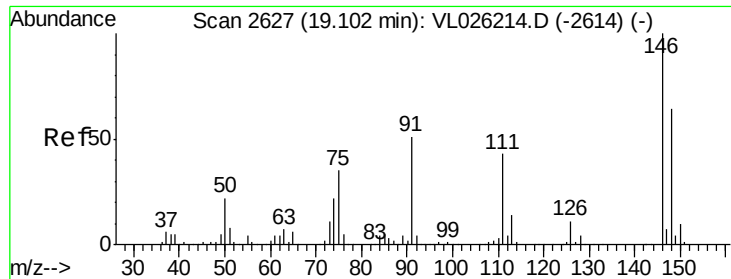
Tot Ion:105 Resp: 25381
 Ion Ratio Lower Upper
 105 100
 120 46.2 39.8 59.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.25 ppbv
 RT: 18.79 min Scan# 2576
 Delta R.T. -0.02 min
 Lab File: VL026227.D
 Acq: 21 Oct 2015 4:58

Tgt Ion:105 Resp: 70699
 Ion Ratio Lower Upper
 105 100
 120 47.4 41.2 61.8
 91 11.0 37.2 55.8#
 77 13.4 15.6 23.4#





#75

1,3-Dichlorobenzene

Concen: 0.04 ppbv

RT: 19.24 min Scan# 2649

Delta R.T. 0.13 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

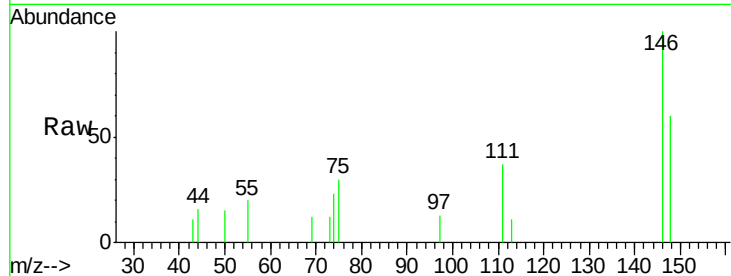
Tot Ion:146 Resp: 7255

Ion Ratio Lower Upper

146 100

111 52.2 21.6 64.8

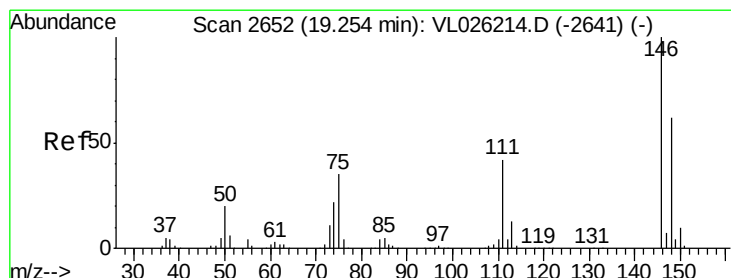
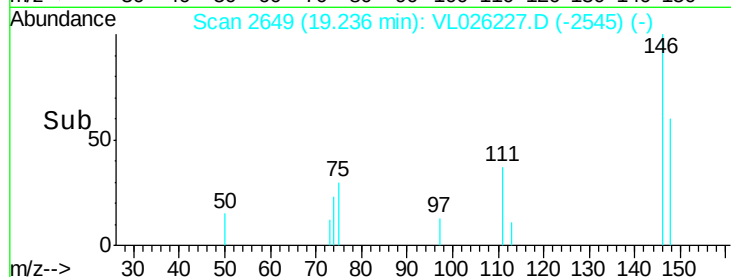
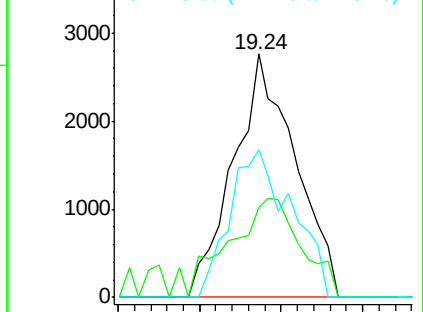
148 60.9 31.8 95.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.04 ppbv

RT: 19.24 min Scan# 2649

Delta R.T. -0.02 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

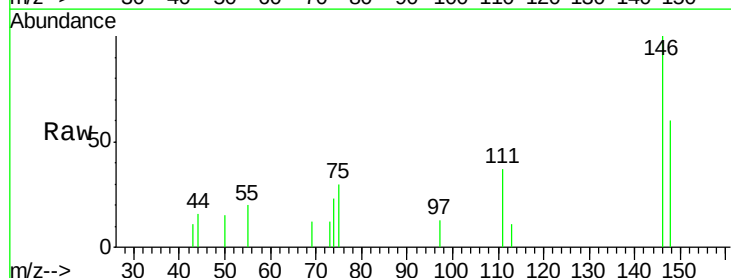
Tgt Ion:146 Resp: 7255

Ion Ratio Lower Upper

146 100

111 53.9 20.8 62.2

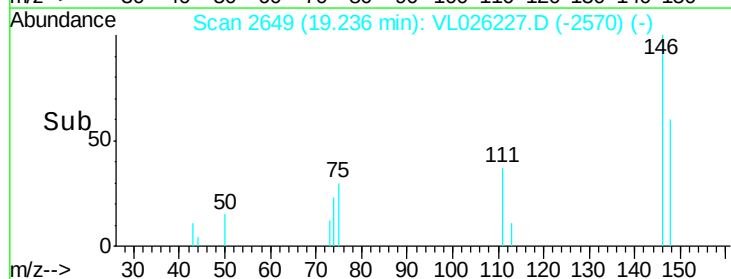
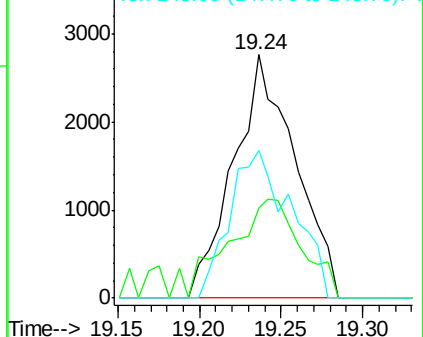
148 60.9 31.9 95.9

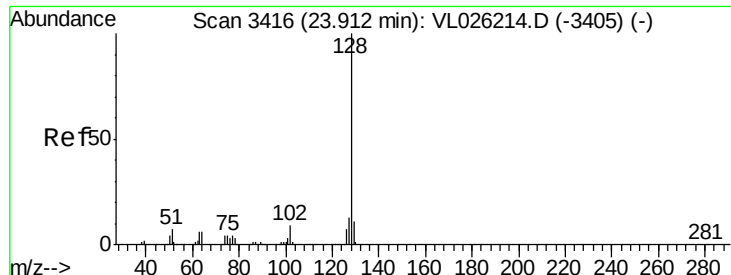


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.04 ppbv

RT: 23.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: VL026227.D

Acq: 21 Oct 2015 4:58

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-239DUP

Tot Ion:128 Resp: 10377

Ion Ratio Lower Upper

128 100

127 15.3 10.4 15.6

129 13.4 8.8 13.2#

