

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102115\
 Data File : VL026234.D
 Acq On : 21 Oct 2015 11:18
 Operator : SY/MD
 Sample : VL1021ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1021ABL01

Quant Time: Oct 22 08:31:16 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)
1) Bromochloromethane	6.62	49	512677	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.29	114	1485392	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.70	117	1758930	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.24	95	1426277	10.51	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

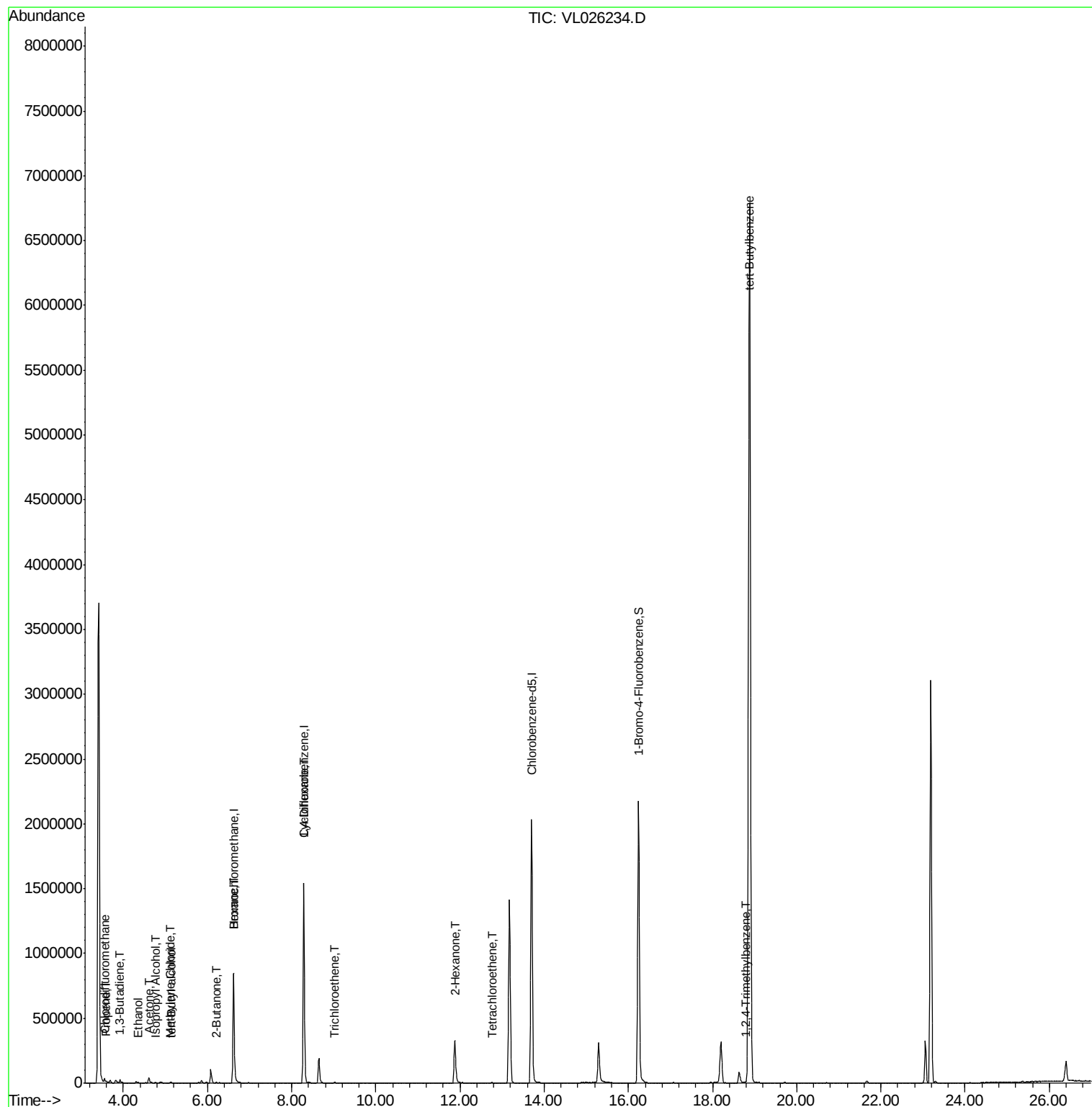
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.56	51	15532	0.24	ppbv	95
9) Propene	3.59	41	2318	0.08	ppbv #	79
13) Ethanol	4.34	45	740	0.16	ppbv #	36
15) Acetone	4.61	43	44378	0.59	ppbv #	35
16) 1,3-Butadiene	3.92	39	4485	0.13	ppbv #	7
17) tert-Butyl alcohol	5.15	59	1798	0.03	ppbv #	72
19) Isopropyl Alcohol	4.78	45	1784	0.06	ppbv #	1
20) Methylene Chloride	5.12	84	3286	0.11	ppbv	90
26) Hexane	6.63	57	1489	0.02	ppbv #	52
30) Cyclohexane	8.28	84	1612	0.02	ppbv #	1
34) 2-Butanone	6.21	43	9566	0.11	ppbv	92
38) Trichloroethene	9.02	130	2658	0.04	ppbv	90
51) 2-Hexanone	11.87	43	94557	0.89	ppbv #	25
52) Tetrachloroethene	12.76	164	2293	0.03	ppbv #	81
65) tert-Butylbenzene	18.88	119	137900	0.47	ppbv #	26
74) 1,2,4-Trimethylbenzene	18.79	105	11224	0.04	ppbv #	68

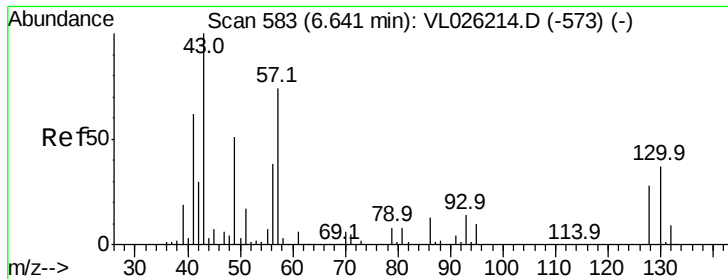
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102115\
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MSVOA_L
ClientSampleId :
VL1021ABL01

Quant Time: Oct 22 08:31:16 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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.62 min Scan# 579

Delta R.T. -0.02 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Instrument :

MSVOA_L

ClientSampleId :

VL1021ABL01

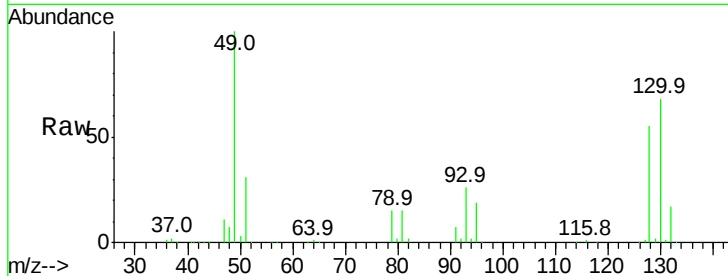
Tgt Ion: 49 Resp: 512677

Ion Ratio Lower Upper

49 100

128 56.5 28.2 84.7

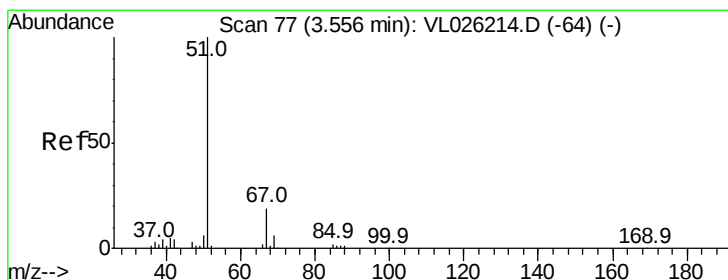
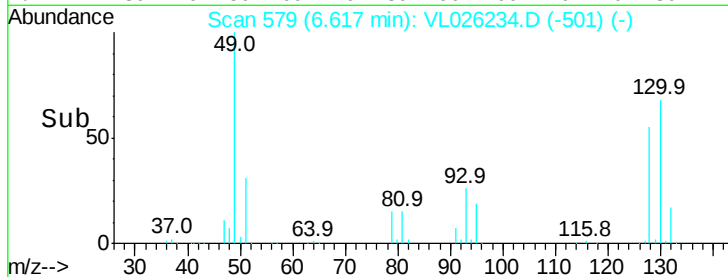
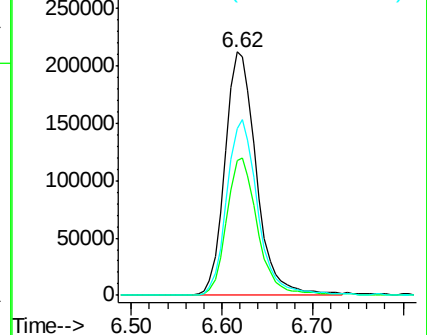
130 72.7 36.0 108.1



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



#3

Chlorodifluoromethane

Concen: 0.24 ppbv

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026234.D

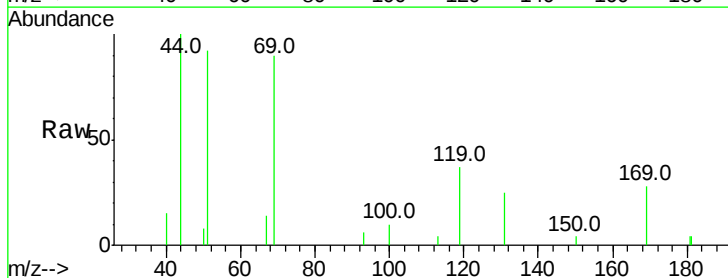
Acq: 21 Oct 2015 11:18

Tgt Ion: 51 Resp: 15532

Ion Ratio Lower Upper

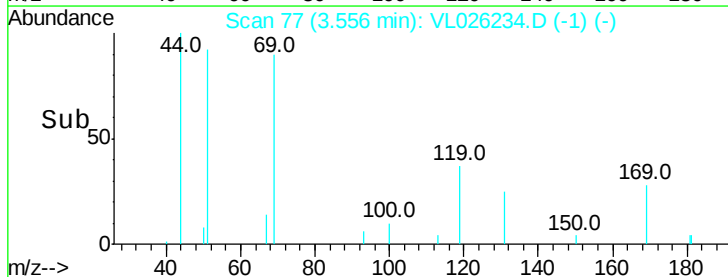
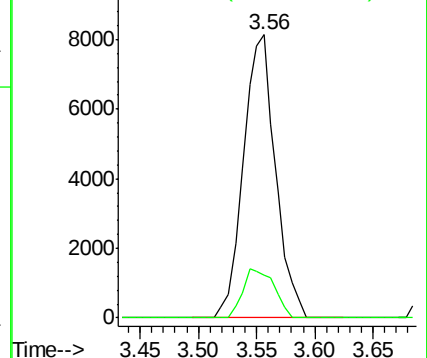
51 100

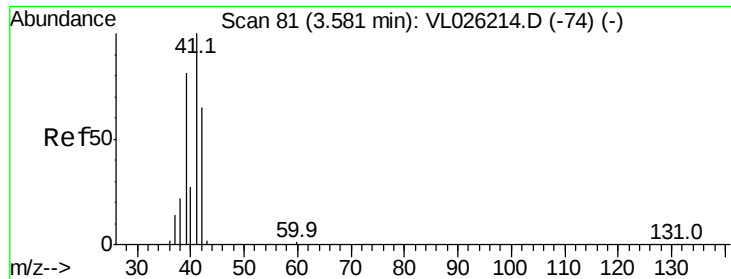
67 17.0 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.08 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Instrument :

MSVOA_L

ClientSampleId :

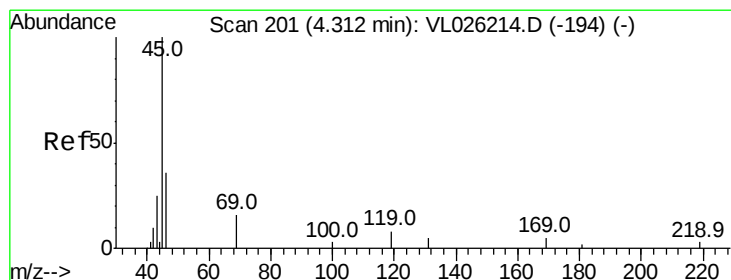
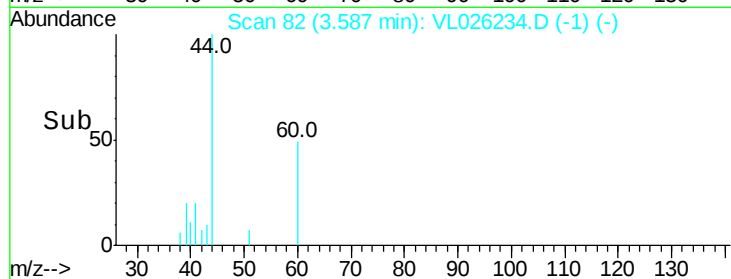
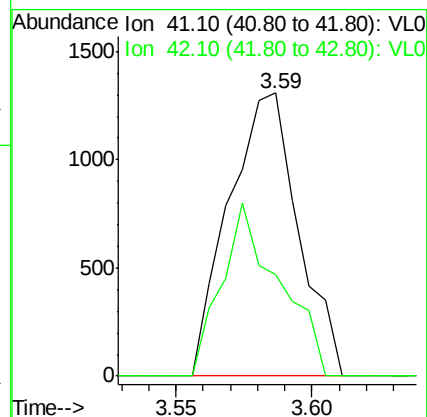
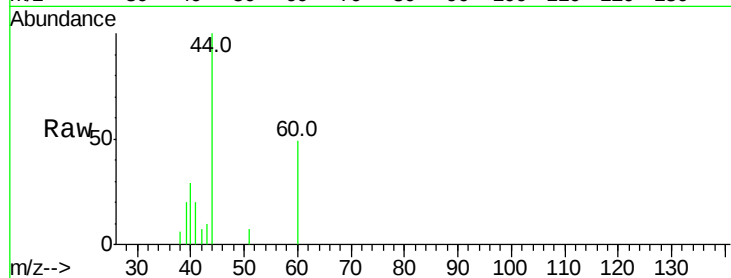
VL1021ABL01

Tgt Ion: 41 Resp: 2318

Ion Ratio Lower Upper

41 100

42 50.5 53.8 80.8#



#13

Ethanol

Concen: 0.16 ppbv

RT: 4.34 min Scan# 206

Delta R.T. 0.03 min

Lab File: VL026234.D

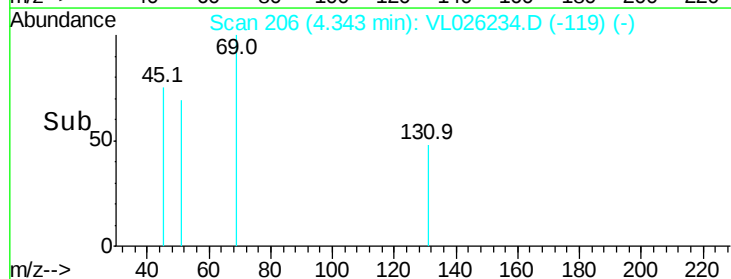
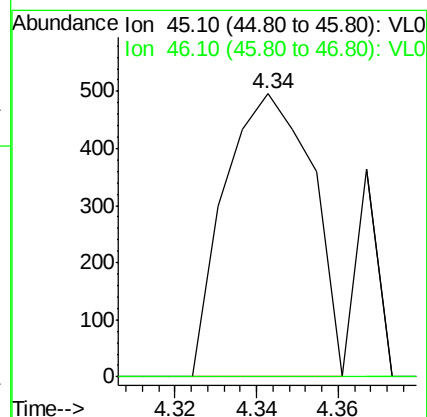
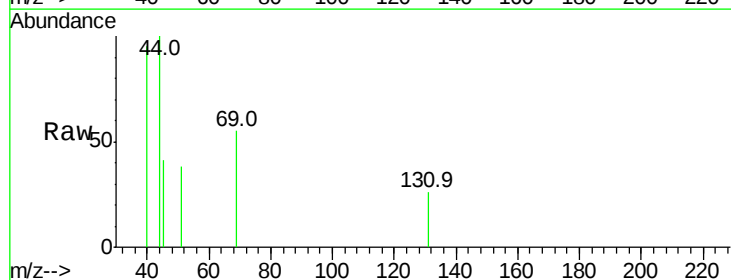
Acq: 21 Oct 2015 11:18

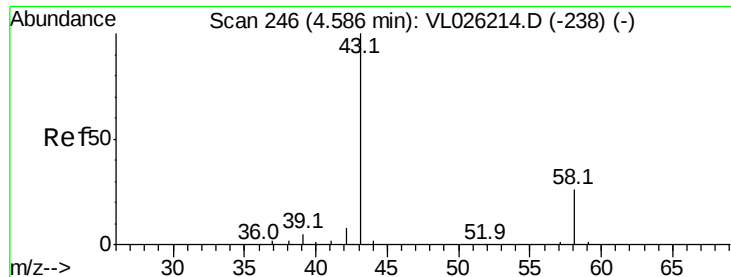
Tgt Ion: 45 Resp: 740

Ion Ratio Lower Upper

45 100

46 0.0 15.8 63.0#





#15

Acetone

Concen: 0.59 ppbv

RT: 4.61 min Scan# 250

Delta R.T. 0.02 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Instrument :

MSVOA_L

ClientSampleId :

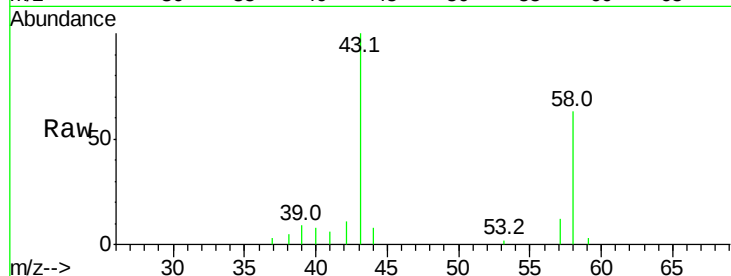
VL1021ABL01

Tgt Ion: 43 Resp: 44378

Ion Ratio Lower Upper

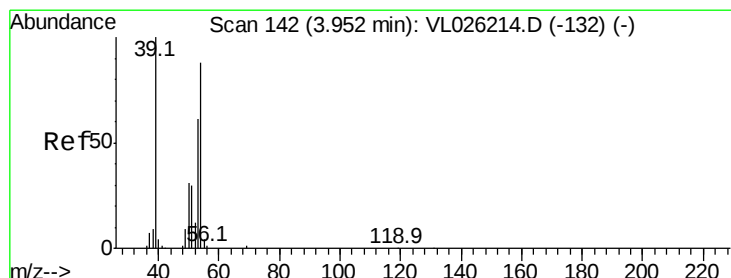
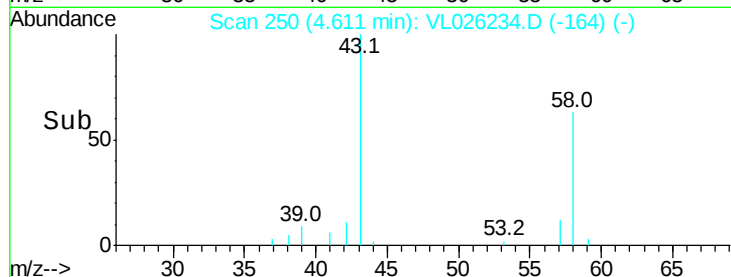
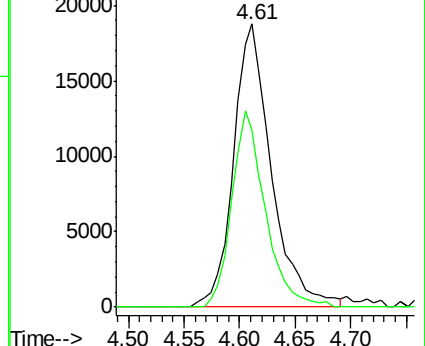
43 100

58 61.0 21.8 32.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.13 ppbv

RT: 3.92 min Scan# 137

Delta R.T. -0.03 min

Lab File: VL026234.D

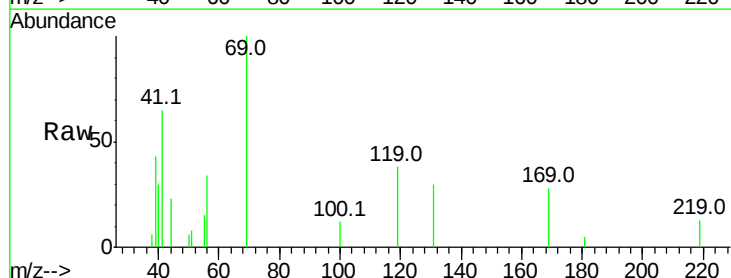
Acq: 21 Oct 2015 11:18

Tgt Ion: 39 Resp: 4485

Ion Ratio Lower Upper

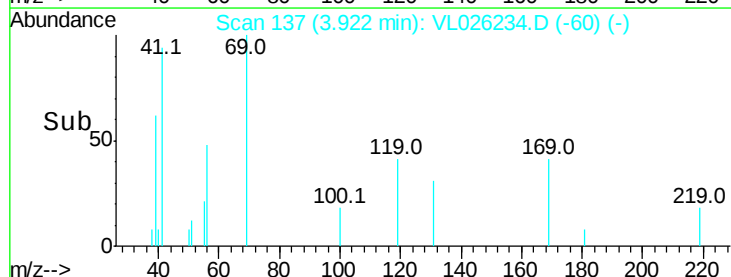
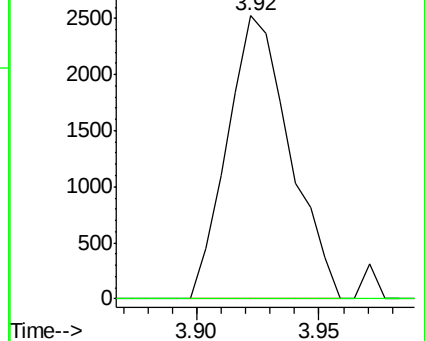
39 100

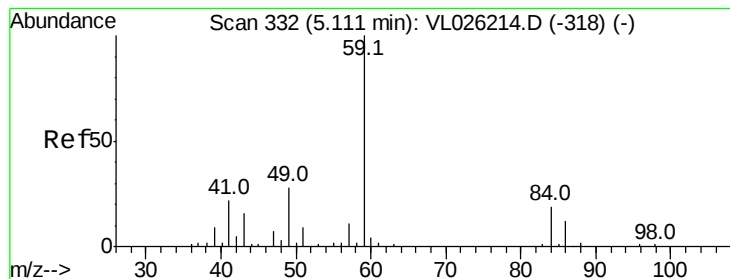
54 0.0 67.3 100.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.03 ppbv

RT: 5.15 min Scan# 338

Delta R.T. 0.04 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Instrument :

MSVOA_L

ClientSampleId :

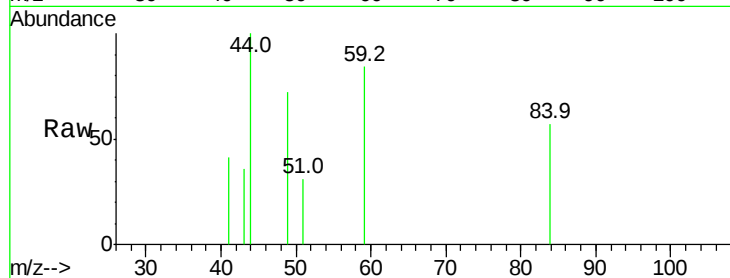
VL1021ABL01

Tgt Ion: 59 Resp: 1798

Ion Ratio Lower Upper

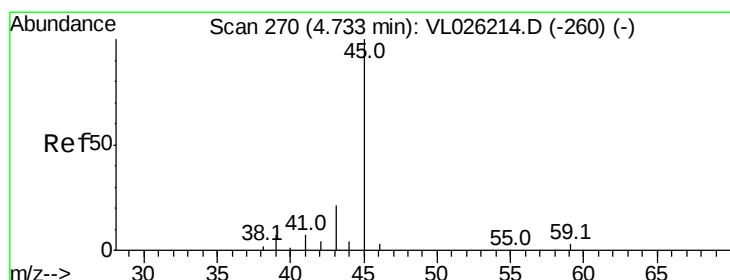
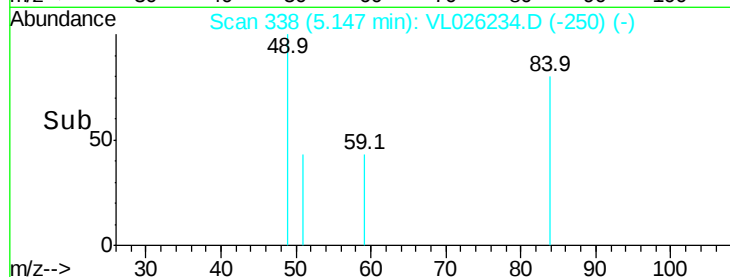
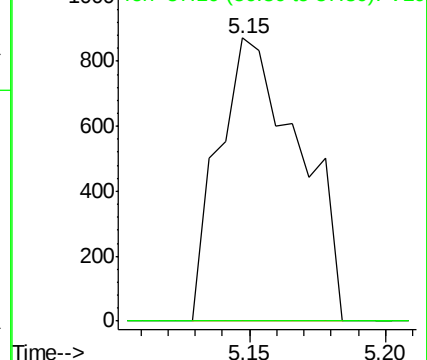
59 100

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



#19

Isopropyl Alcohol

Concen: 0.06 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.04 min

Lab File: VL026234.D

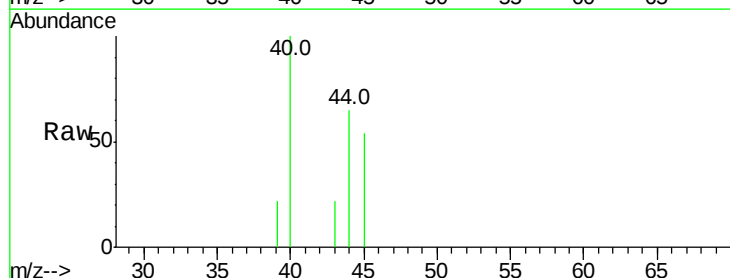
Acq: 21 Oct 2015 11:18

Tgt Ion: 45 Resp: 1784

Ion Ratio Lower Upper

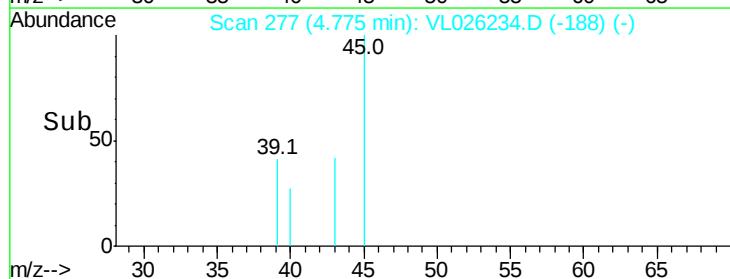
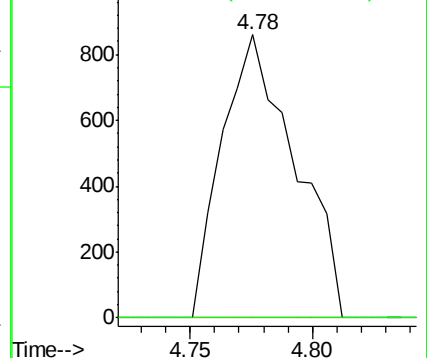
45 100

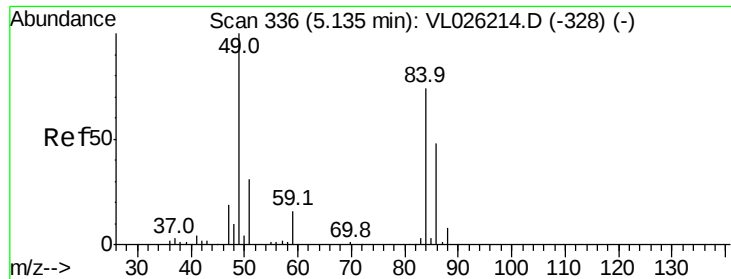
58 1518.3 40.3 60.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

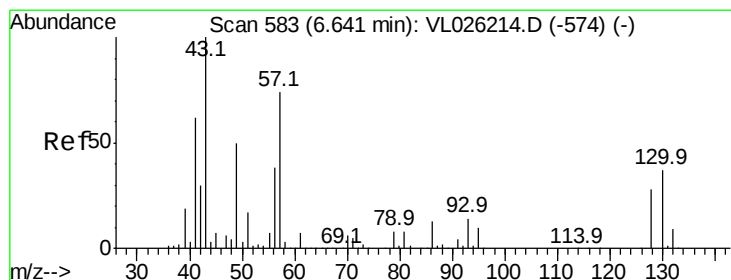
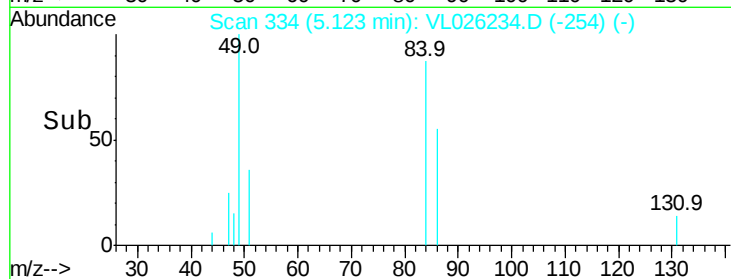
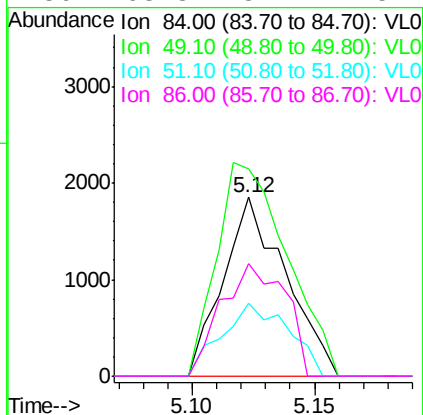
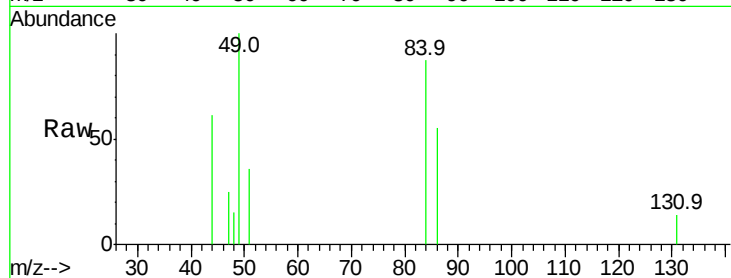




#20
Methylene Chloride
Concen: 0.11 ppbv
RT: 5.12 min Scan# 334
Delta R.T. -0.01 min
Lab File: VL026234.D
Acq: 21 Oct 2015 11:18

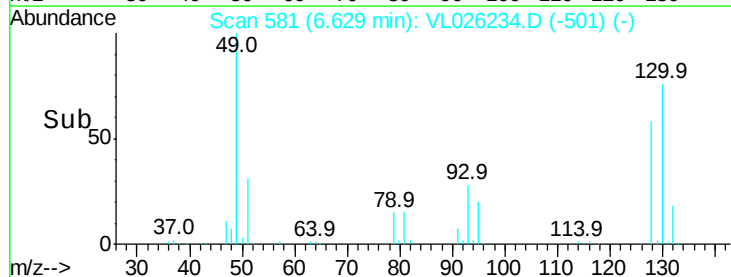
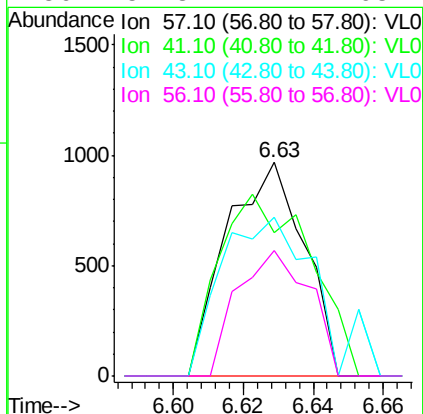
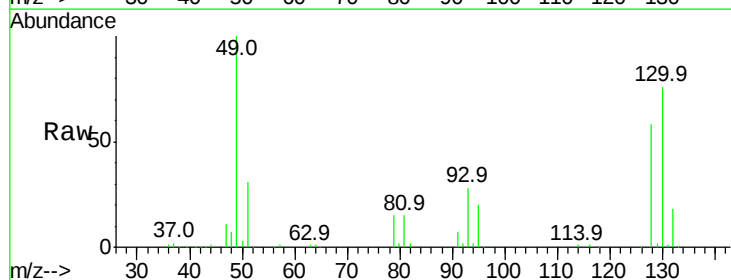
Instrument :
MSVOA_L
ClientSampleId :
VL1021ABL01

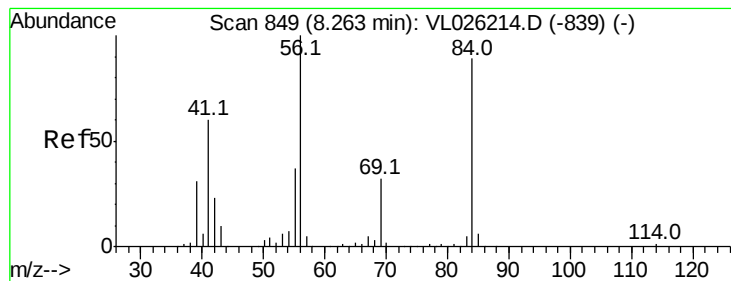
Tgt Ion:	84	Resp:	3286
Ion	Ratio	Lower	Upper
84	100		
49	115.6	108.7	163.1
51	41.1	33.7	50.5
86	63.3	52.2	78.2



#26
Hexane
Concen: 0.02 ppbv
RT: 6.63 min Scan# 581
Delta R.T. -0.01 min
Lab File: VL026234.D
Acq: 21 Oct 2015 11:18

Tgt Ion:	57	Resp:	1489
Ion	Ratio	Lower	Upper
57	100		
41	100.7	68.1	102.1
43	91.6	163.4	245.2#
56	54.3	42.2	63.4





#30

Cyclohexane

Concen: 0.02 ppbv

RT: 8.28 min Scan# 852

Delta R.T. 0.02 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Instrument :

MSVOA_L

ClientSampleId :

VL1021ABL01

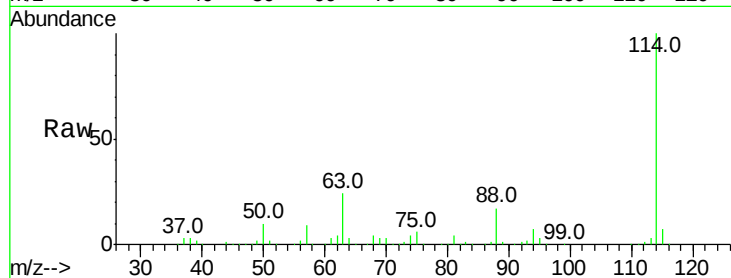
Tgt Ion: 84 Resp: 1612

Ion Ratio Lower Upper

84 100

56 1932.6 95.9 143.9#

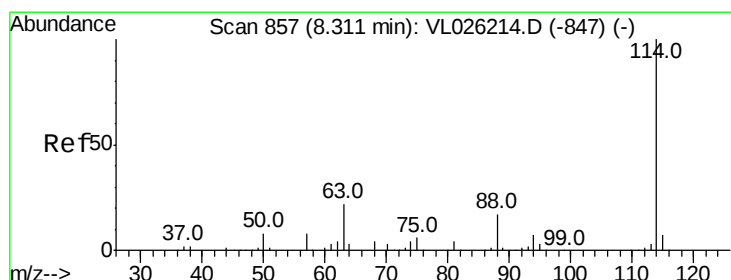
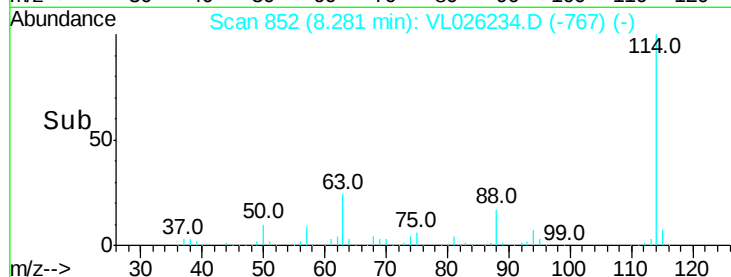
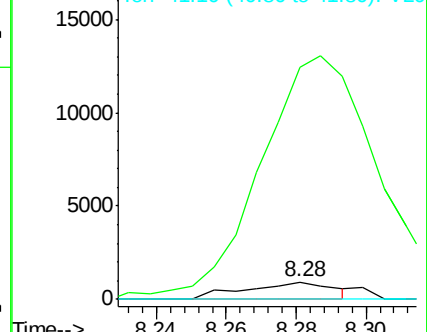
41 0.0 54.8 82.2#



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



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.29 min Scan# 853

Delta R.T. -0.02 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

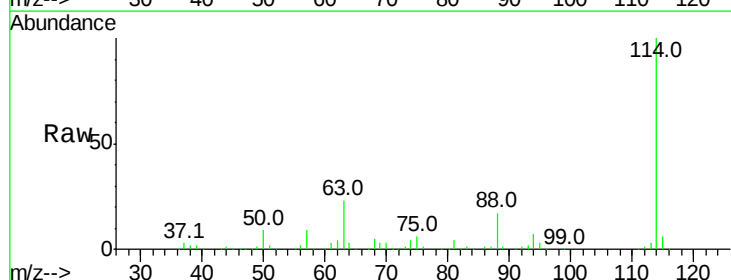
Tgt Ion: 114 Resp: 1485392

Ion Ratio Lower Upper

114 100

63 22.5 18.2 27.4

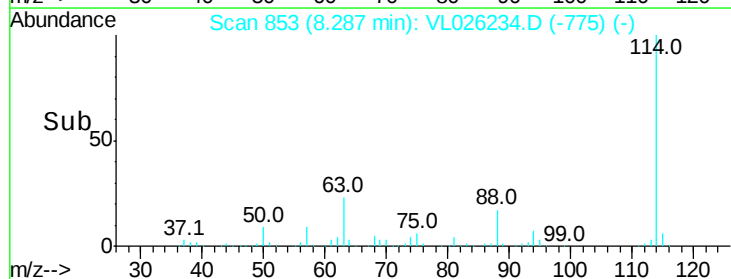
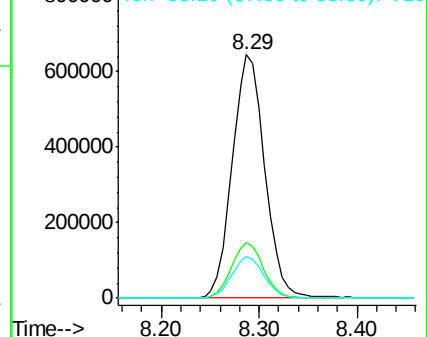
88 16.9 13.5 20.3

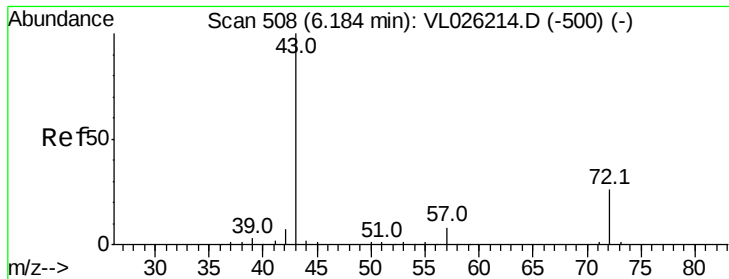


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

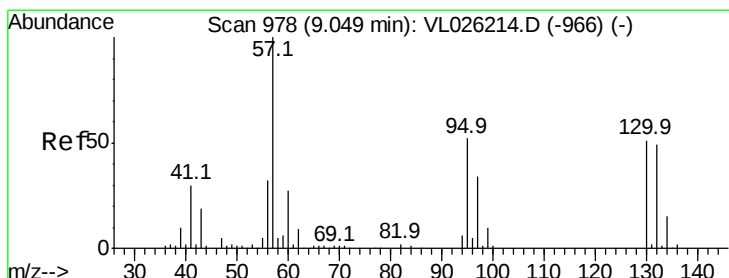
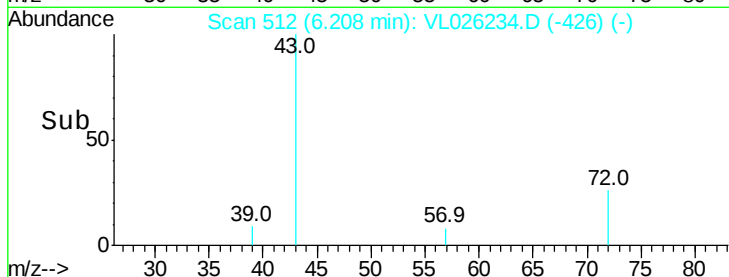
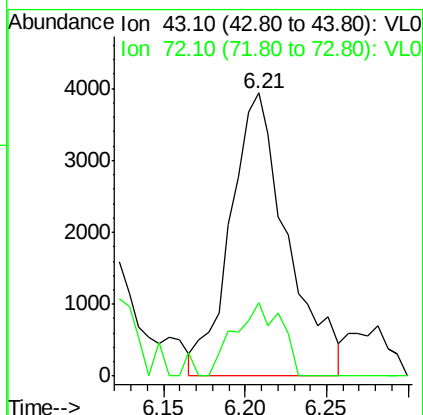
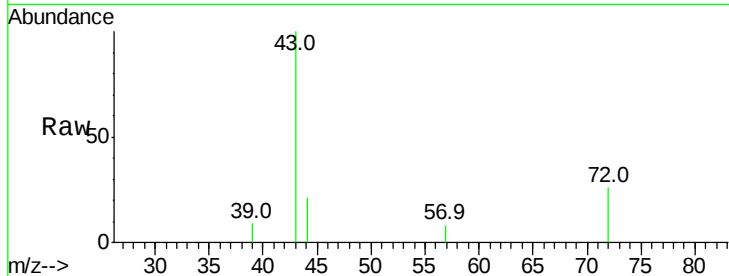




#34
2-Butanone
Concen: 0.11 ppbv
RT: 6.21 min Scan# 512
Delta R.T. 0.02 min
Lab File: VL026234.D
Acq: 21 Oct 2015 11:18

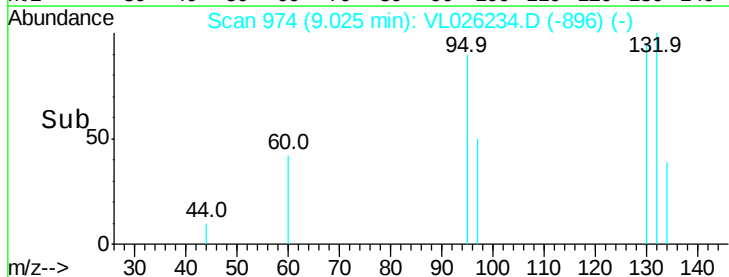
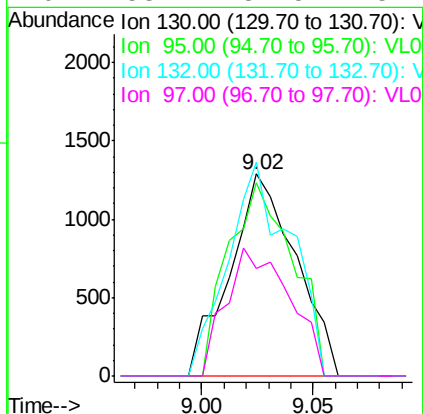
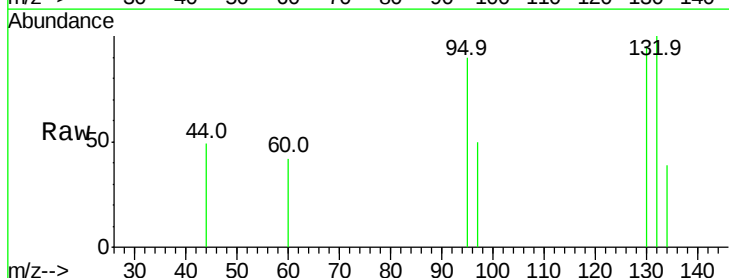
Instrument :
MSVOA_L
ClientSampleId :
VL1021ABL01

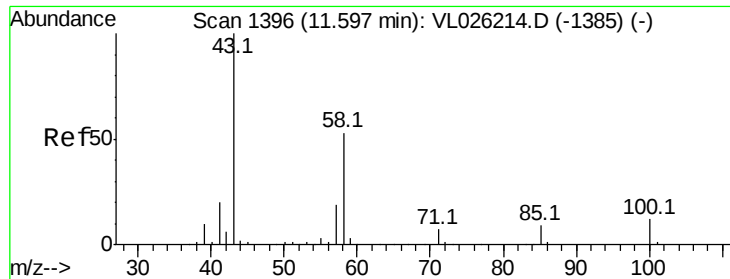
Tgt Ion: 43 Resp: 9566
Ion Ratio Lower Upper
43 100
72 21.2 20.1 30.1



#38
Trichloroethene
Concen: 0.04 ppbv
RT: 9.02 min Scan# 974
Delta R.T. -0.02 min
Lab File: VL026234.D
Acq: 21 Oct 2015 11:18

Tgt Ion: 130 Resp: 2658
Ion Ratio Lower Upper
130 100
95 95.4 81.0 121.4
132 105.7 76.5 114.7
97 53.2 52.5 78.7





#51

2-Hexanone

Concen: 0.89 ppbv

RT: 11.87 min Scan# 1441

Delta R.T. 0.27 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Instrument :

MSVOA_L

ClientSampleId :

VL1021ABL01

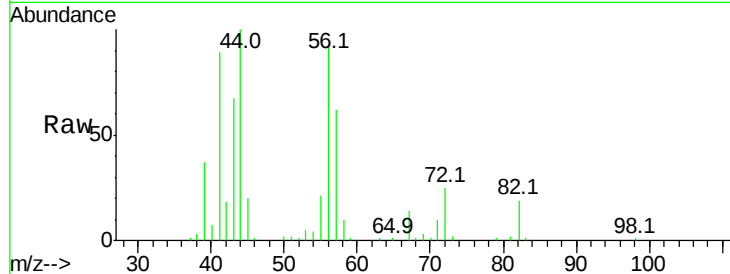
Tgt Ion: 43 Resp: 94557

Ion Ratio Lower Upper

43 100

58 0.0 43.2 64.8#

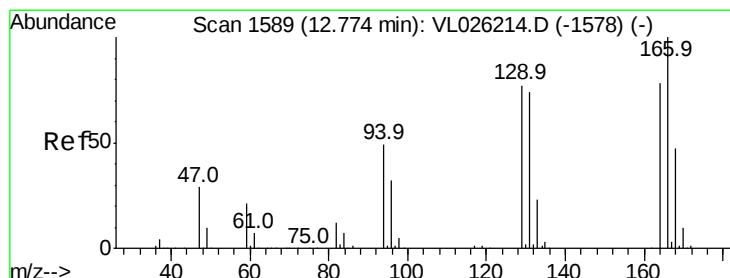
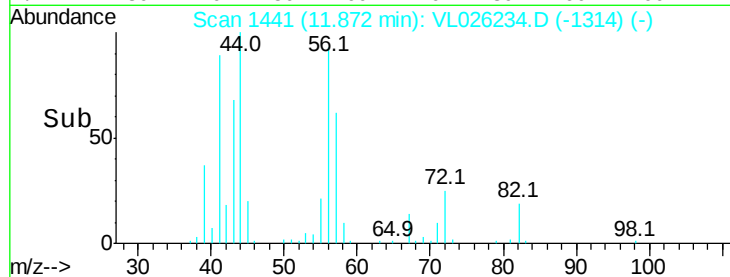
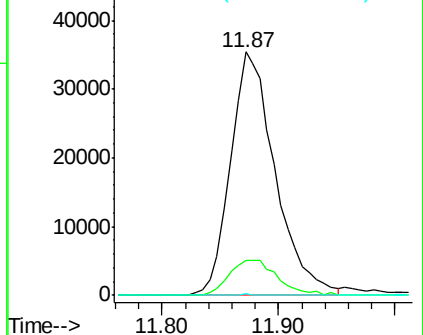
98 0.1 0.0 0.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.03 ppbv

RT: 12.76 min Scan# 1586

Delta R.T. -0.02 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Tgt Ion: 164 Resp: 2293

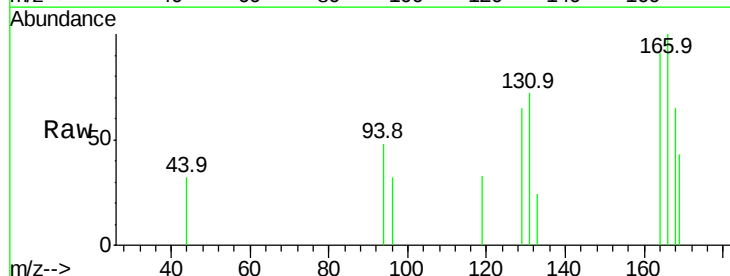
Ion Ratio Lower Upper

164 100

166 110.0 102.3 153.5

129 71.9 78.2 117.4#

131 78.7 75.7 113.5

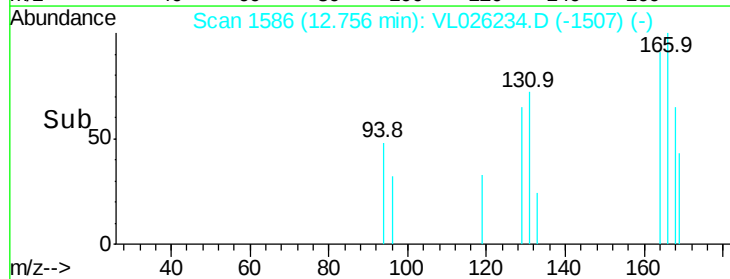
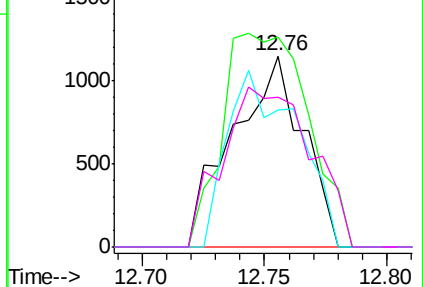


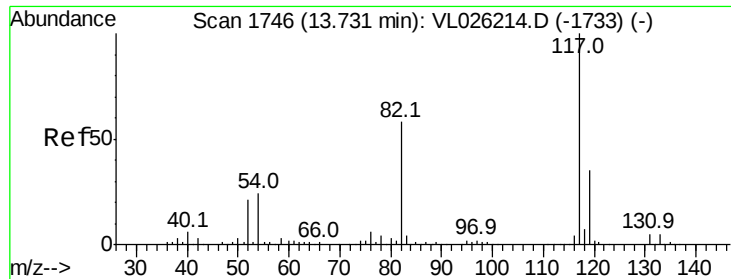
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.70 min Scan# 1741

Delta R.T. -0.03 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Instrument :

MSVOA_L

ClientSampleId :

VL1021ABL01

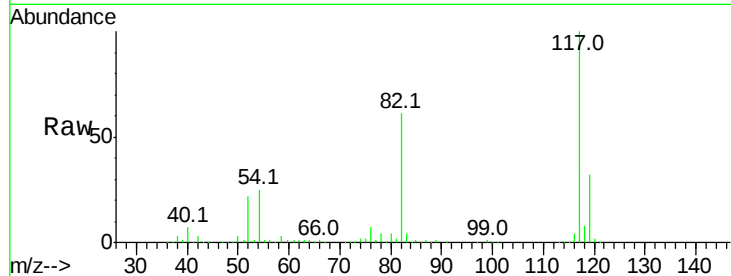
Tgt Ion:117 Resp: 1758930

Ion Ratio Lower Upper

117 100

82 60.0 45.8 68.8

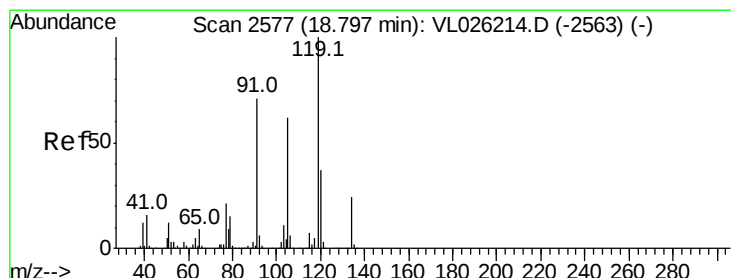
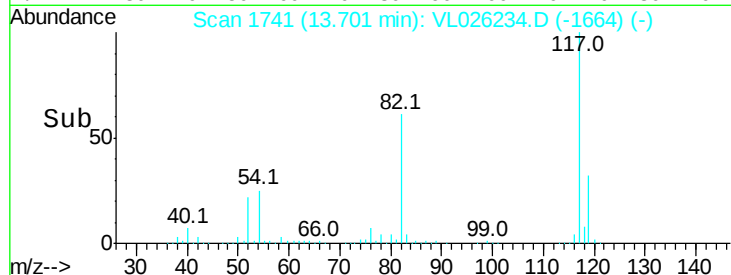
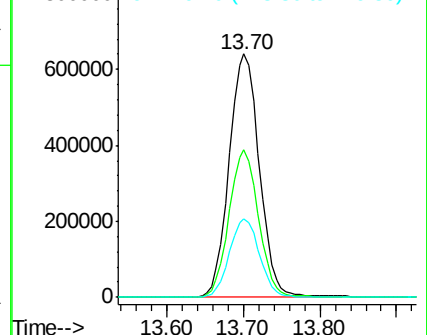
119 32.5 45.0 67.4#



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



#65

tert-Butylbenzene

Concen: 0.47 ppbv

RT: 18.88 min Scan# 2590

Delta R.T. 0.08 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

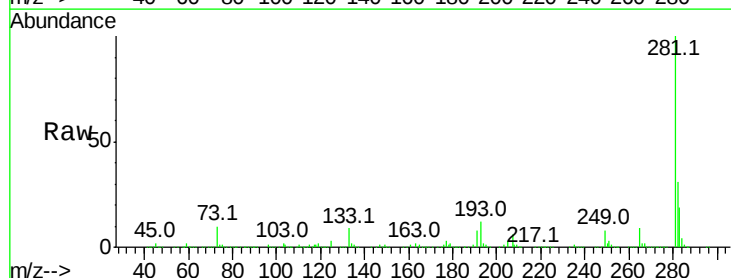
Tgt Ion:119 Resp: 137900

Ion Ratio Lower Upper

119 100

91 2.8 57.5 86.3#

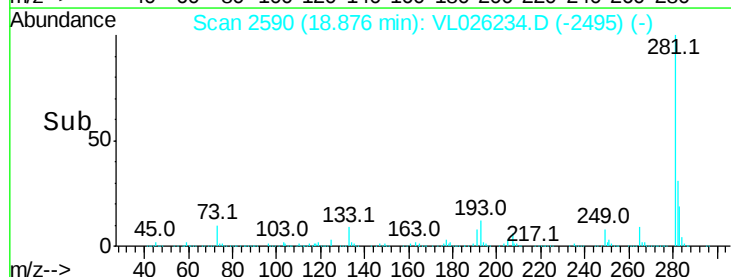
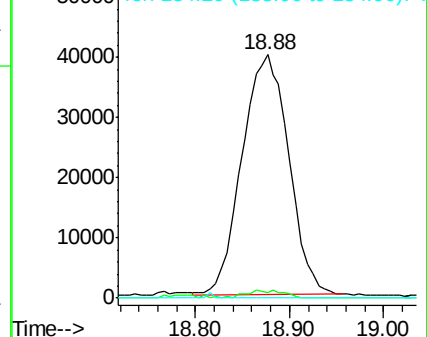
134 0.0 18.1 27.1#

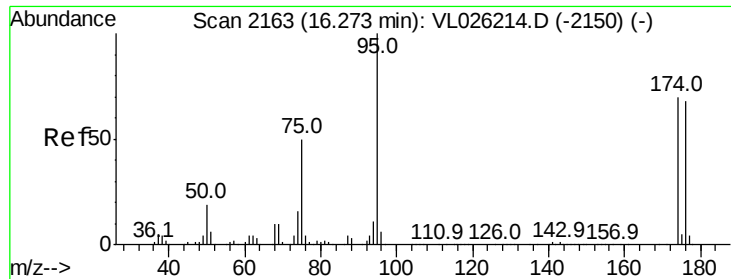


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.51 ppbv

RT: 16.24 min Scan# 2158

Delta R.T. -0.03 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Instrument :

MSVOA_L

ClientSampleId :

VL1021ABL01

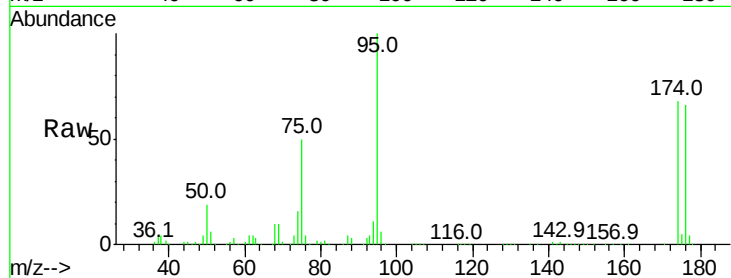
Tgt Ion: 95 Resp: 1426277

Ion Ratio Lower Upper

95 100

174 68.7 55.8 83.8

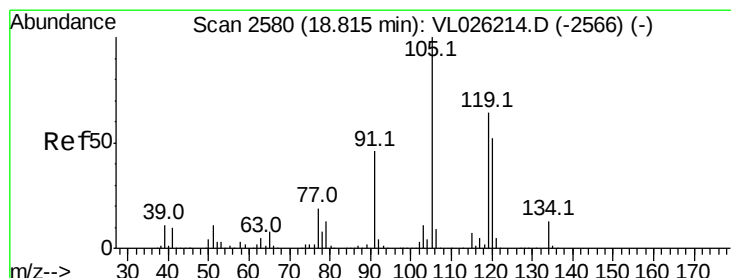
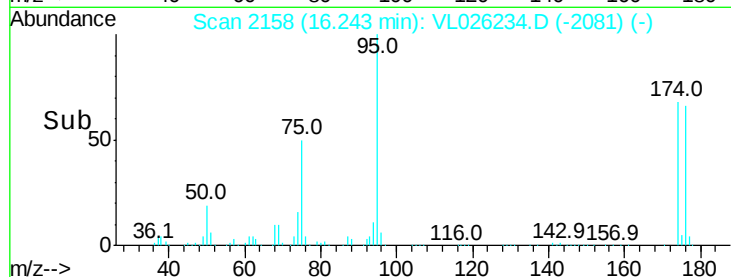
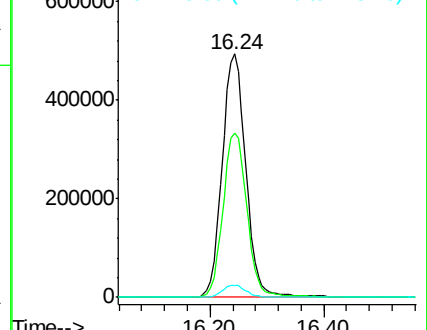
175 5.2 4.3 6.5



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



#74

1,2,4-Trimethylbenzene

Concen: 0.04 ppbv

RT: 18.79 min Scan# 2576

Delta R.T. -0.02 min

Lab File: VL026234.D

Acq: 21 Oct 2015 11:18

Tgt Ion: 105 Resp: 11224

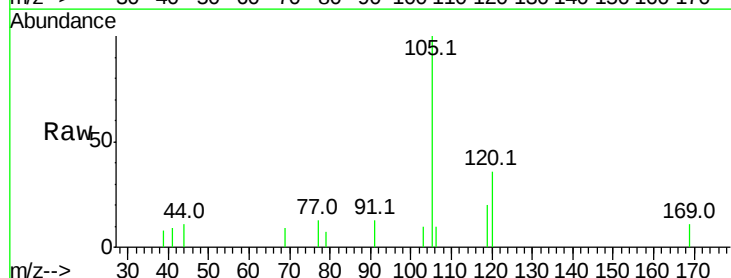
Ion Ratio Lower Upper

105 100

120 35.5 41.2 61.8#

91 12.5 37.2 55.8#

77 13.5 15.6 23.4#



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

