

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026216.D
 Acq On : 20 Oct 2015 21:11
 Operator : SY/MD
 Sample : VL1020ABL01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1020ABL01

Quant Time: Oct 21 01:01:13 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 20:24:48 2015
 QLast Update : Tue Oct 20 20:24:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	549170	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.30	114	1598683	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.71	117	1882635	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	1524262	10.50	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

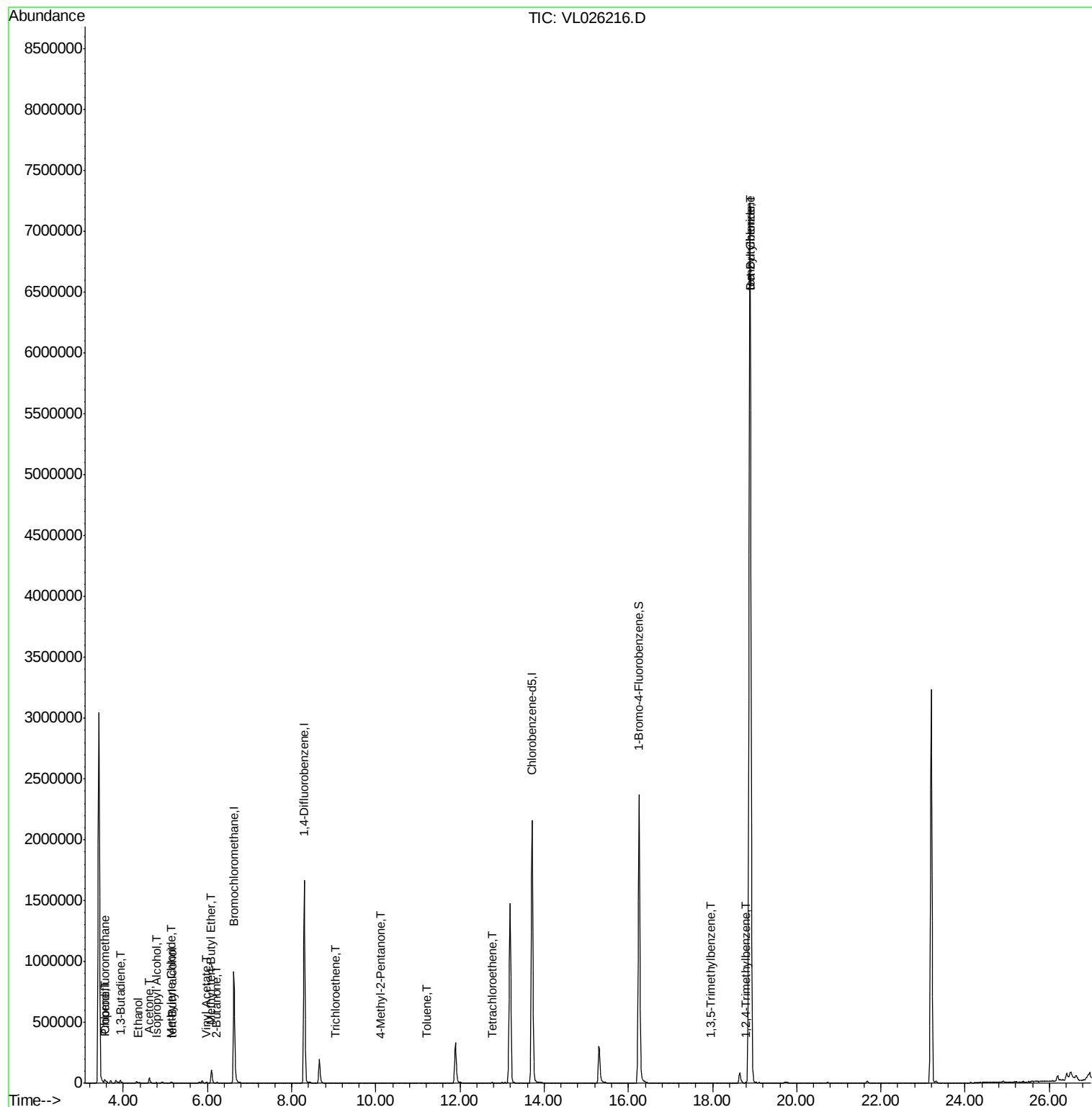
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.56	51	11584	0.17	ppbv #	91
9) Propene	3.58	41	1547	0.05	ppbv #	82
13) Ethanol	4.34	45	615	0.13	ppbv #	36
15) Acetone	4.62	43	43218	0.53	ppbv #	24
16) 1,3-Butadiene	3.93	39	4452	0.12	ppbv #	7
17) tert-Butyl alcohol	5.17	59	1751	0.03	ppbv #	72
19) Isopropyl Alcohol	4.78	45	2510	0.08	ppbv #	1
20) Methylene Chloride	5.14	84	3027	0.09	ppbv	93
23) Vinyl Acetate	5.98	43	6749	0.05	ppbv #	86
28) Methyl tert-Butyl Ether	6.09	73	1517	0.01	ppbv #	1
34) 2-Butanone	6.21	43	10519	0.12	ppbv	96
38) Trichloroethene	9.04	130	1064	0.01	ppbv #	57
50) 4-Methyl-2-Pentanone	10.10	43	1353	0.01	ppbv #	36
52) Tetrachloroethene	12.77	164	1980	0.02	ppbv	89
53) Toluene	11.21	91	2871	0.01	ppbv	99
65) tert-Butylbenzene	18.88	119	152006	0.48	ppbv #	25
66) Benzyl Chloride	18.89	91	1797	0.01	ppbv #	62
73) 1,3,5-Trimethylbenzene	17.96	105	4703	0.02	ppbv	91
74) 1,2,4-Trimethylbenzene	18.80	105	11818	0.04	ppbv #	63

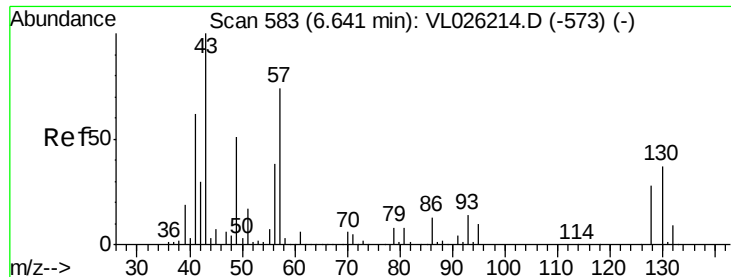
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
Data File : VL026216.D
Acq On : 20 Oct 2015 21:11
Operator : SY/MD
Sample : VL1020ABL01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1020ABL01

Quant Time: Oct 21 01:01:13 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 20:24:48 2015
QLast Update : Tue Oct 20 20:24:48 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 581

Delta R.T. -0.01 min

Lab File: VL026216.D

Acq: 20 Oct 2015 21:11

Instrument :

MSVOA_L

ClientSampleId :

VL1020ABL01

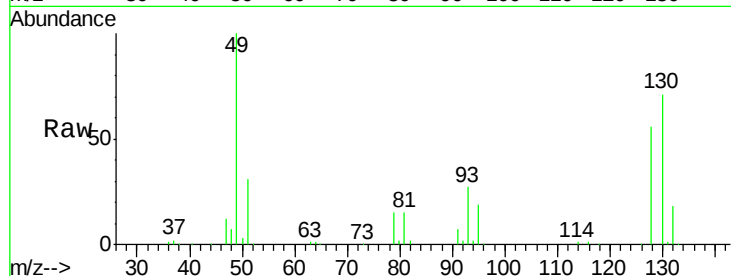
Tot Ion: 49 Resp: 549170

Ion Ratio Lower Upper

49 100

128 57.1 28.2 84.7

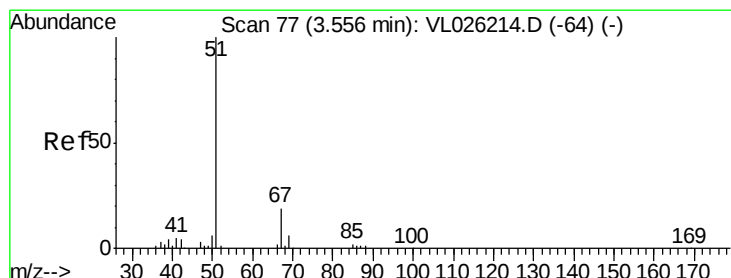
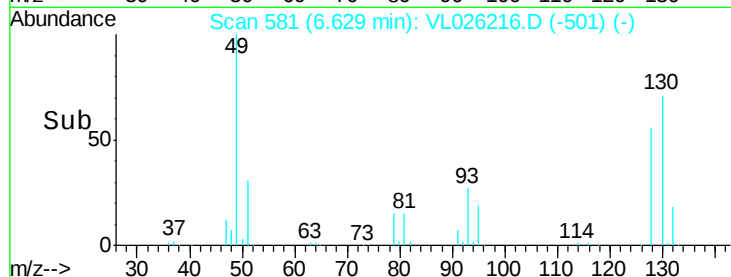
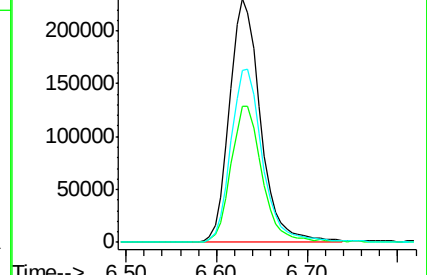
130 73.8 36.0 108.1



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: 0.17 ppbv

RT: 3.56 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL026216.D

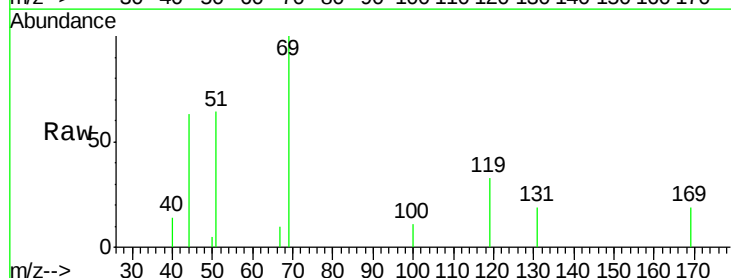
Acq: 20 Oct 2015 21:11

Tgt Ion: 51 Resp: 11584

Ion Ratio Lower Upper

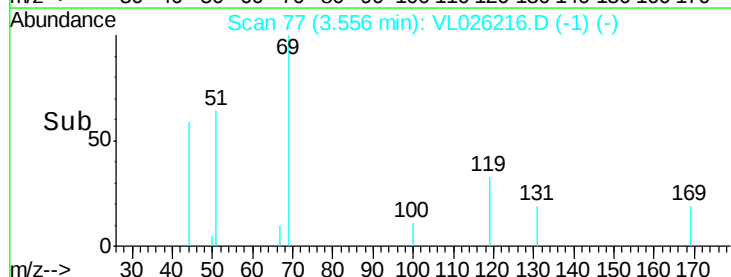
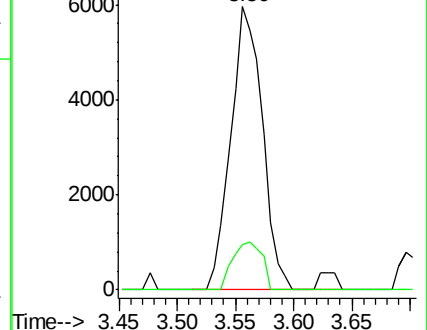
51 100

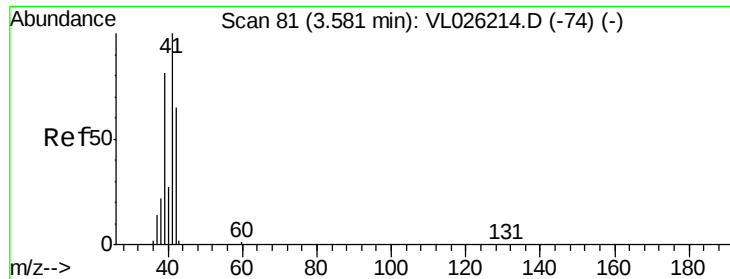
67 15.2 15.3 22.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.05 ppbv

RT: 3.58 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL026216.D

Acq: 20 Oct 2015 21:11

Instrument :

MSVOA_L

ClientSampleId :

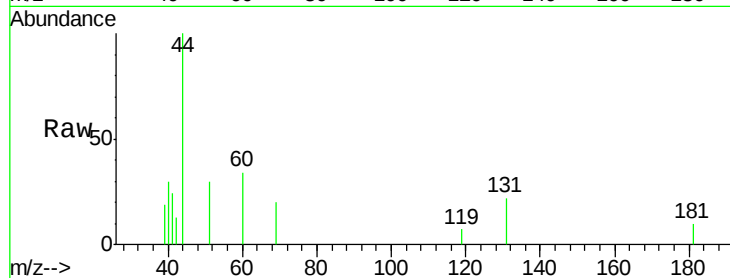
VL1020ABL01

Tot Ion: 41 Resp: 1547

Ion Ratio Lower Upper

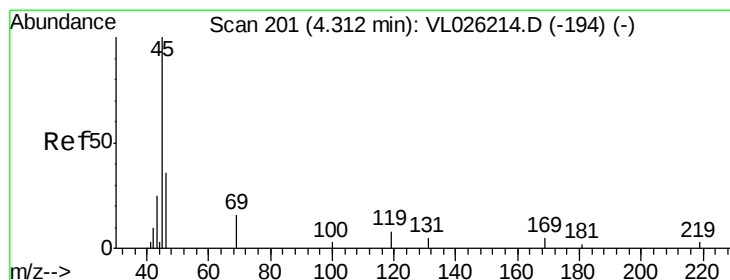
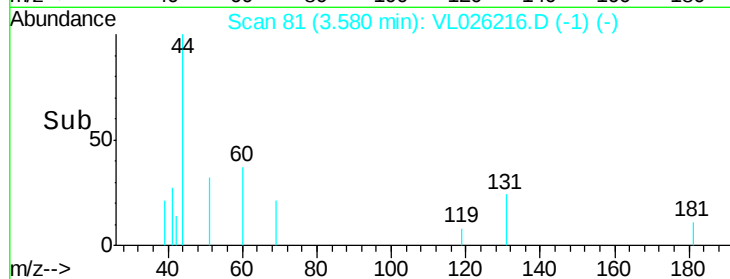
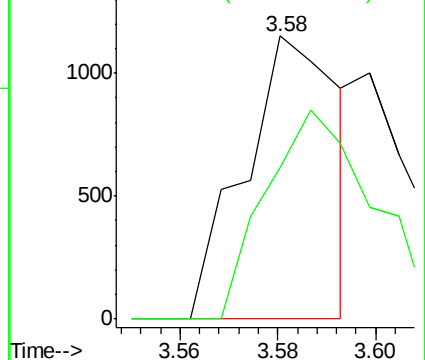
41 100

42 82.2 53.8 80.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 0.13 ppbv

RT: 4.34 min Scan# 206

Delta R.T. 0.03 min

Lab File: VL026216.D

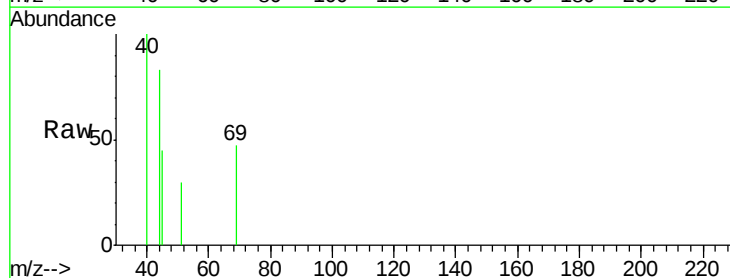
Acq: 20 Oct 2015 21:11

Tgt Ion: 45 Resp: 615

Ion Ratio Lower Upper

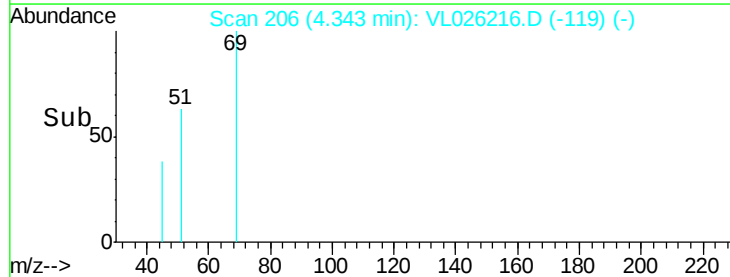
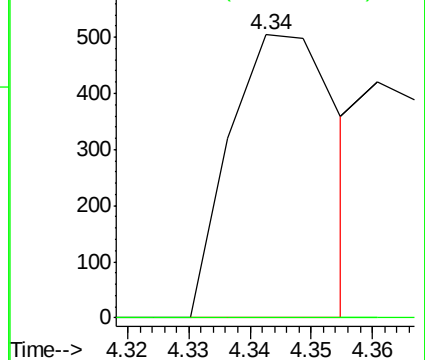
45 100

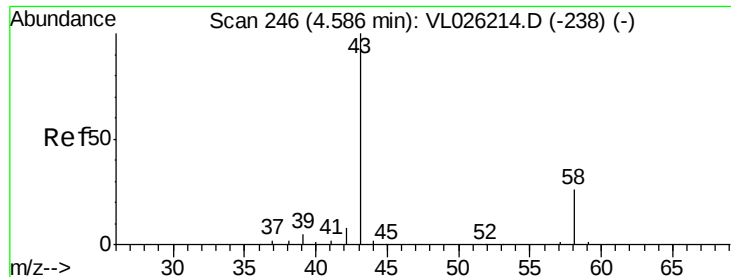
46 0.0 15.8 63.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.53 ppbv

RT: 4.62 min Scan# 252

Delta R.T. 0.04 min

Lab File: VL026216.D

Acq: 20 Oct 2015 21:11

Instrument :

MSVOA_L

ClientSampleId :

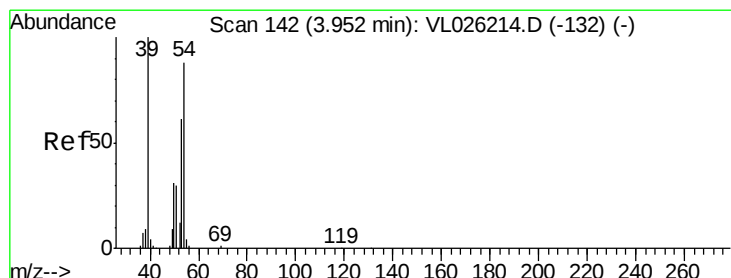
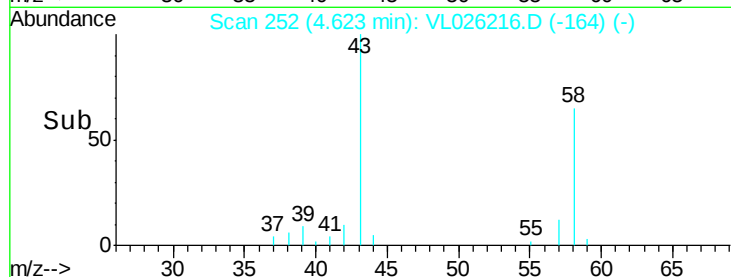
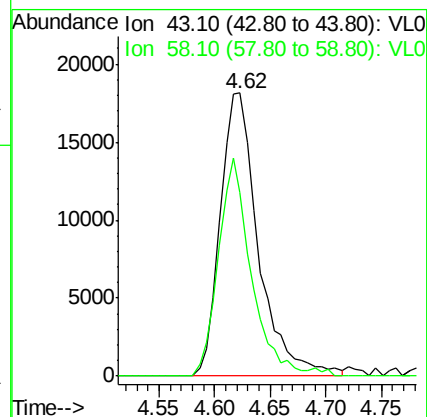
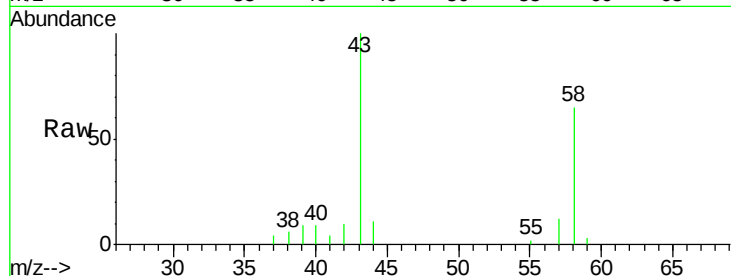
VL1020ABL01

Tot Ion: 43 Resp: 43218

Ion Ratio Lower Upper

43 100

58 66.7 21.8 32.6#



#16

1,3-Butadiene

Concen: 0.12 ppbv

RT: 3.93 min Scan# 139

Delta R.T. -0.02 min

Lab File: VL026216.D

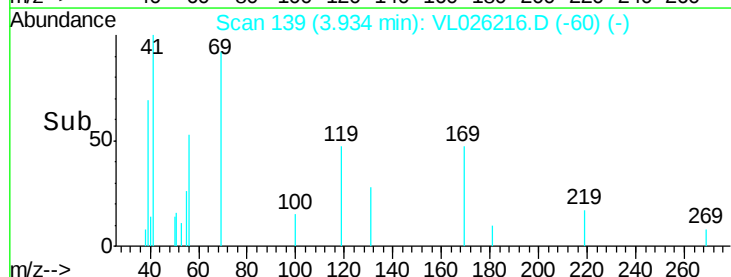
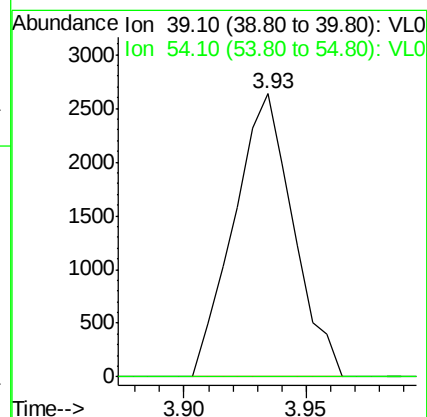
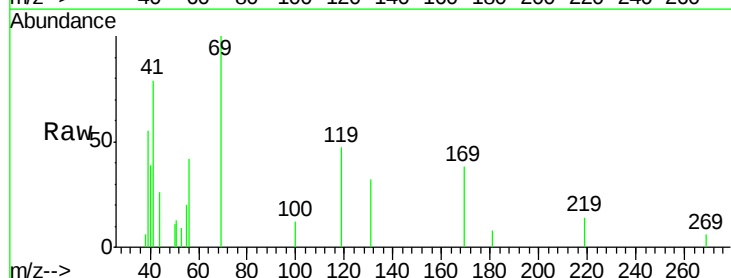
Acq: 20 Oct 2015 21:11

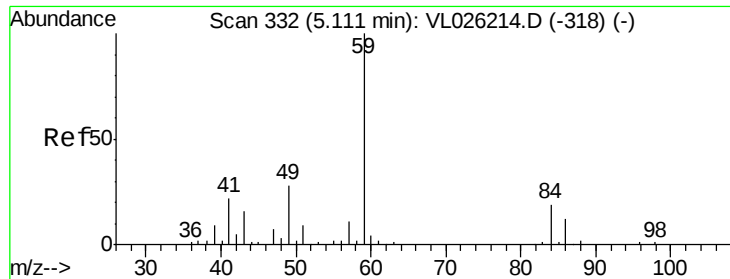
Tgt Ion: 39 Resp: 4452

Ion Ratio Lower Upper

39 100

54 0.0 67.3 100.9#



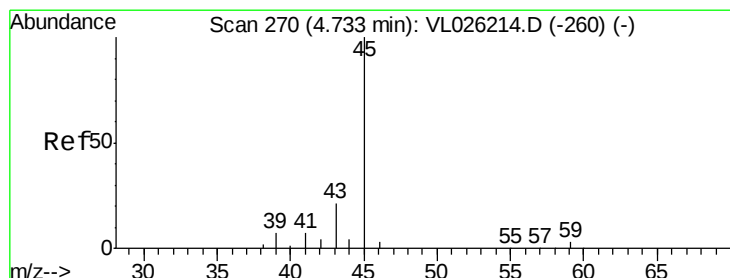
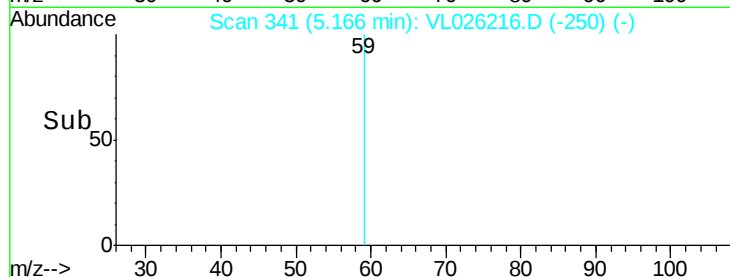
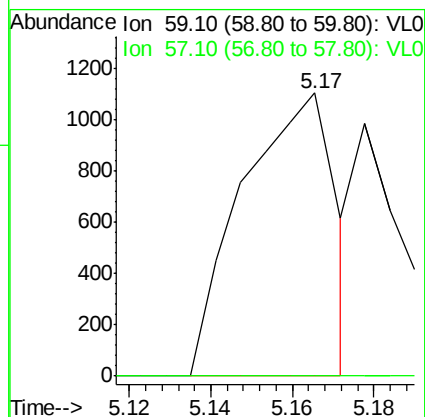
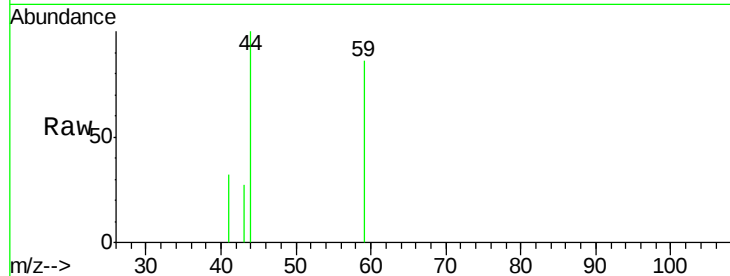


#17

tert-Butyl alcohol
Concen: 0.03 ppbv
RT: 5.17 min Scan# 341
Delta R.T. 0.05 min
Lab File: VL026216.D
Acq: 20 Oct 2015 21:11

Instrument :
MSVOA_L
ClientSampleId :
VL1020ABL01

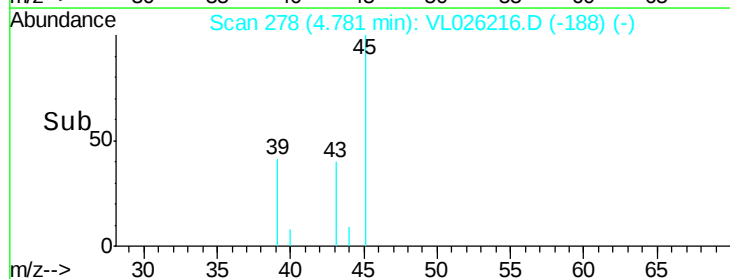
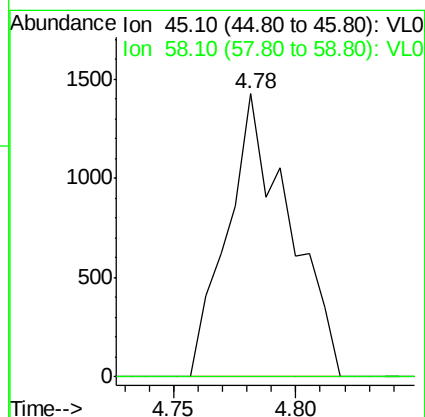
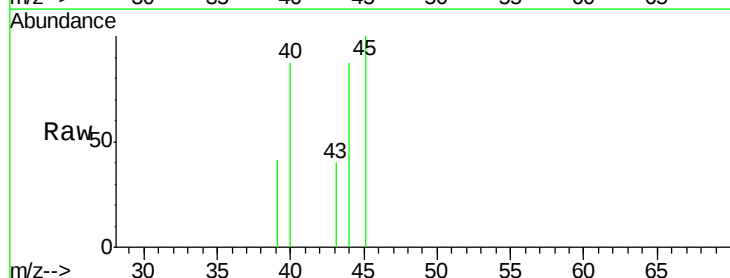
Tot Ion: 59 Resp: 1751
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

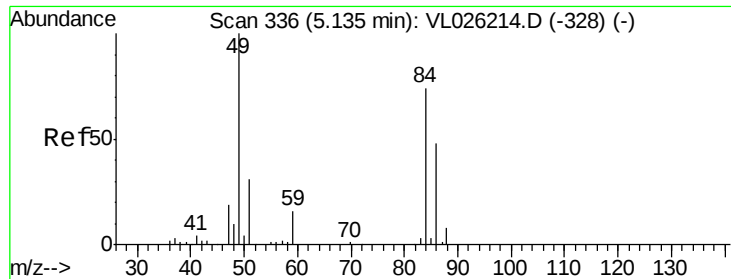


#19

Isopropyl Alcohol
Concen: 0.08 ppbv
RT: 4.78 min Scan# 278
Delta R.T. 0.05 min
Lab File: VL026216.D
Acq: 20 Oct 2015 21:11

Tgt Ion: 45 Resp: 2510
Ion Ratio Lower Upper
45 100
58 1148.8 40.3 60.5#

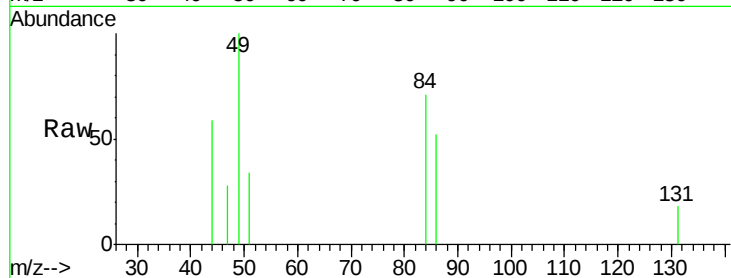




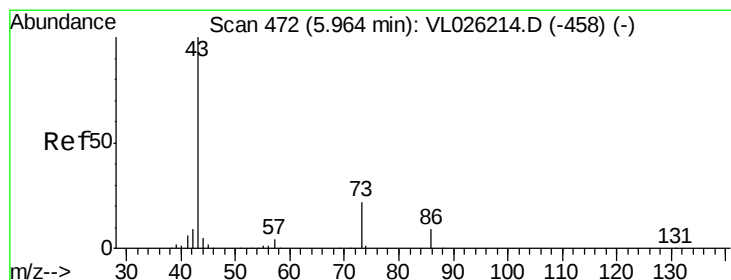
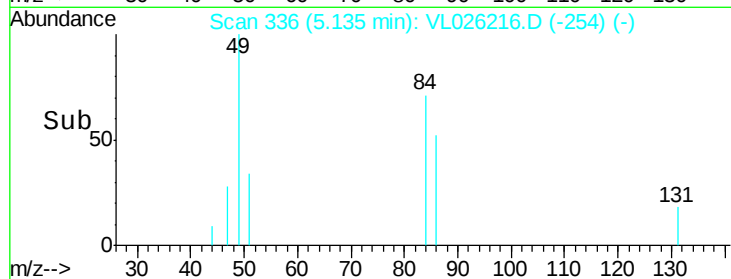
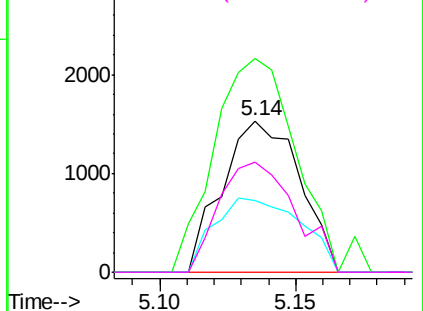
#20
Methvlene Chloride
Concen: 0.09 ppbv
RT: 5.14 min Scan# 336
Delta R.T. -0.00 min
Lab File: VL026216.D
Acq: 20 Oct 2015 21:11

Instrument :
MSVOA_L
ClientSampleId :
VL1020ABL01

Tot Ion: 84 Resp: 3027
Ion Ratio Lower Upper
84 100
49 141.2 108.7 163.1
51 47.4 33.7 50.5
86 72.8 52.2 78.2

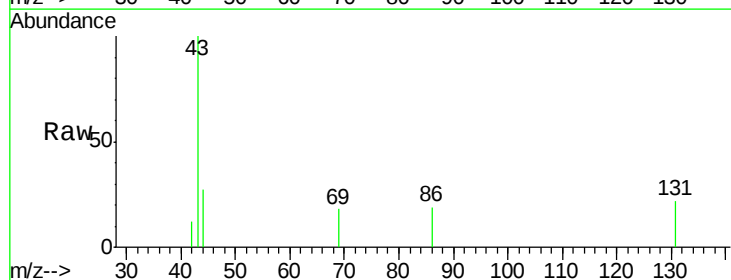


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

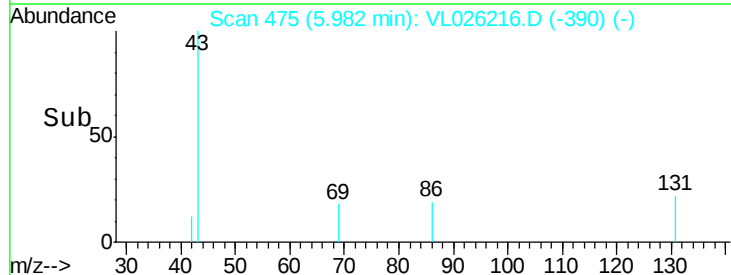
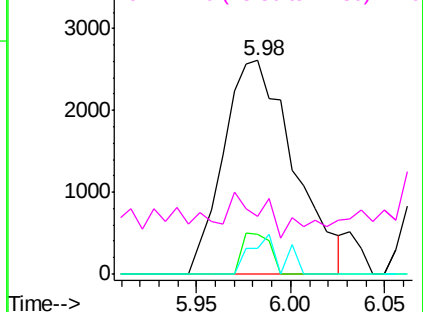


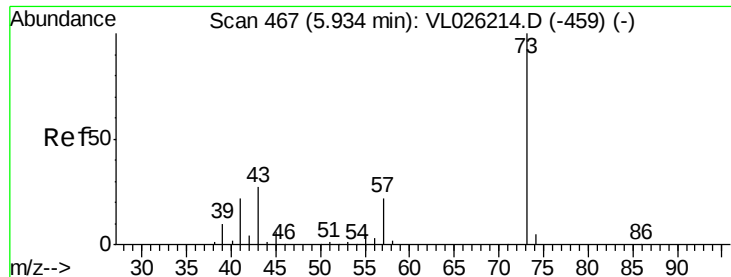
#23
Vinyl Acetate
Concen: 0.05 ppbv
RT: 5.98 min Scan# 475
Delta R.T. 0.02 min
Lab File: VL026216.D
Acq: 20 Oct 2015 21:11

Tgt Ion: 43 Resp: 6749
Ion Ratio Lower Upper
43 100
86 18.6 7.0 10.6#
42 11.7 7.5 11.3#
44 3.7 3.6 5.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



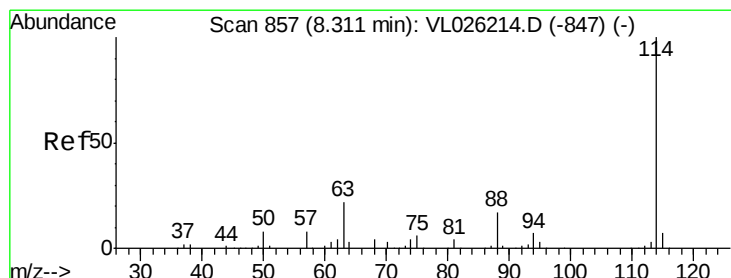
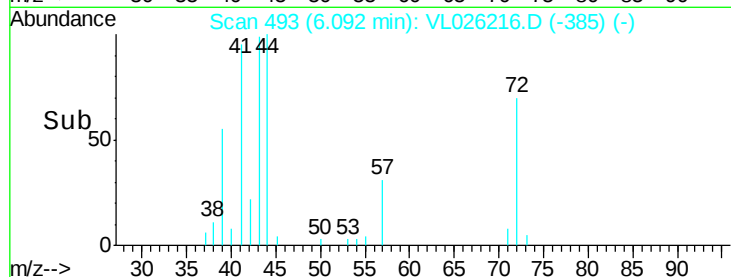
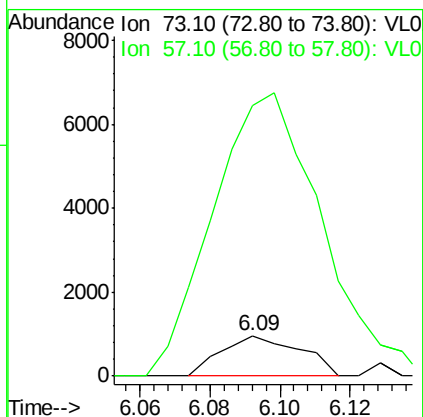
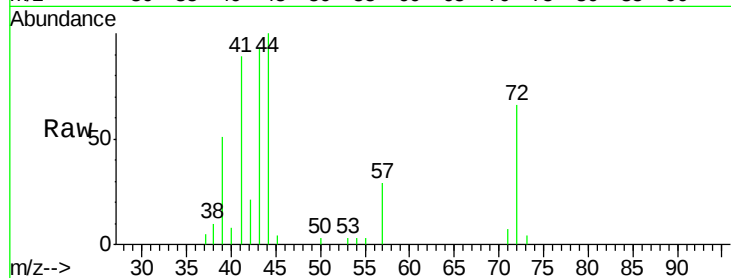


#28

Methvl tert-Butvl Ether
 Concen: 0.01 ppbv
 RT: 6.09 min Scan# 493
 Delta R.T. 0.16 min
 Lab File: VL026216.D
 Acq: 20 Oct 2015 21:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1020ABL01

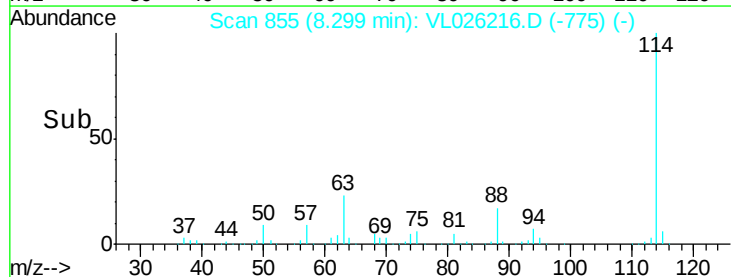
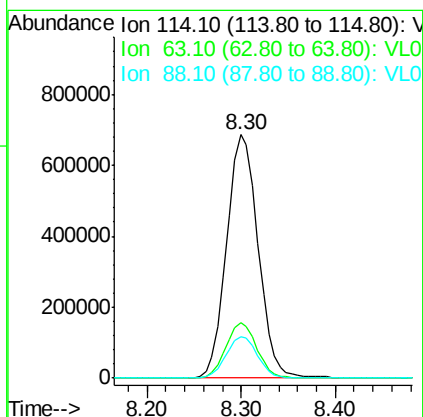
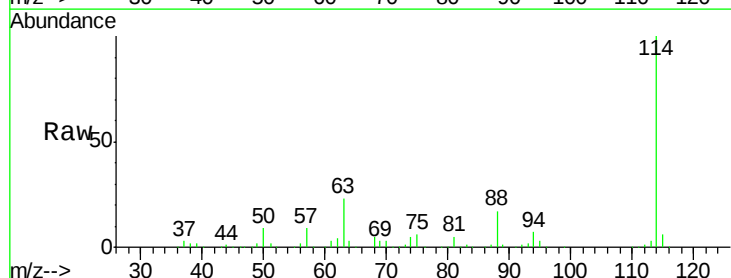
Tot Ion: 73 Resp: 1517
 Ion Ratio Lower Upper
 73 100
 57 957.9 17.4 26.0#

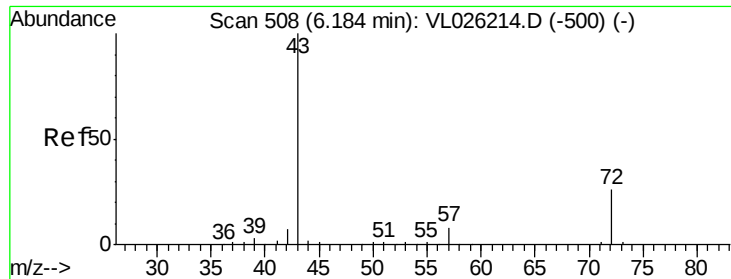


#33

1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.30 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: VL026216.D
 Acq: 20 Oct 2015 21:11

Tgt Ion: 114 Resp: 1598683
 Ion Ratio Lower Upper
 114 100
 63 22.5 18.2 27.4
 88 17.2 13.5 20.3





#34

2-Butanone

Concen: 0.12 ppbv

RT: 6.21 min Scan# 513

Delta R.T. 0.03 min

Lab File: VL026216.D

Acq: 20 Oct 2015 21:11

Instrument :

MSVOA_L

ClientSampleId :

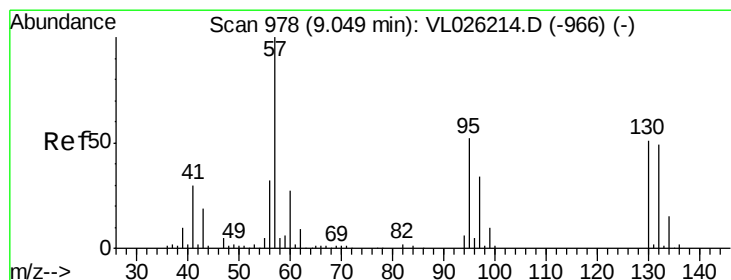
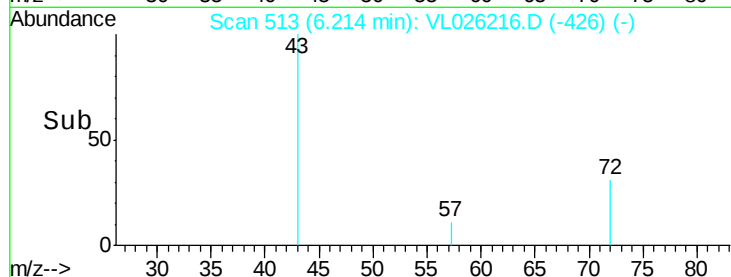
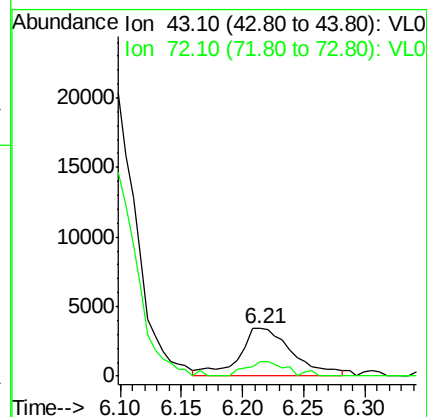
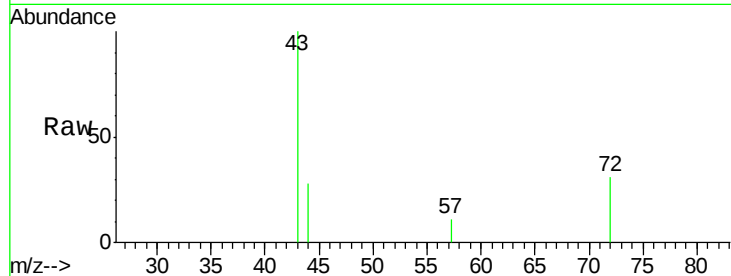
VL1020ABL01

Tot Ion: 43 Resp: 10519

Ion Ratio Lower Upper

43 100

72 23.0 20.1 30.1



#38

Trichloroethene

Concen: 0.01 ppbv

RT: 9.04 min Scan# 977

Delta R.T. -0.01 min

Lab File: VL026216.D

Acq: 20 Oct 2015 21:11

Tgt Ion: 130 Resp: 1064

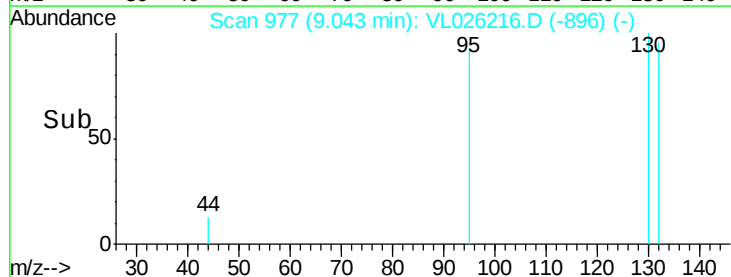
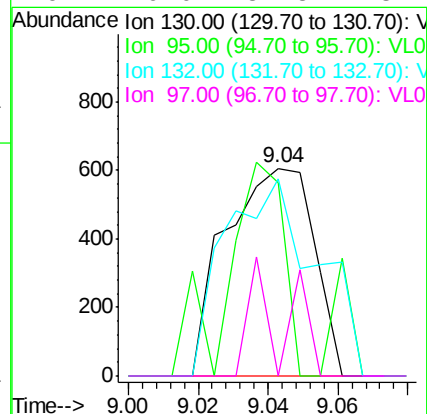
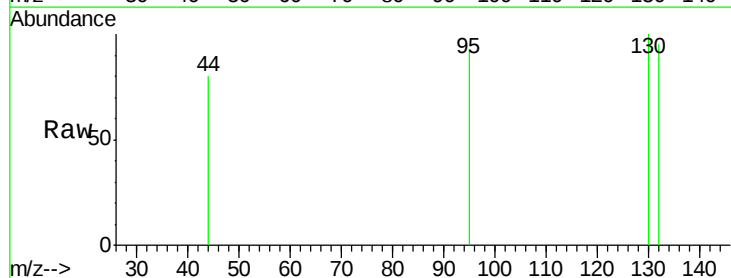
Ion Ratio Lower Upper

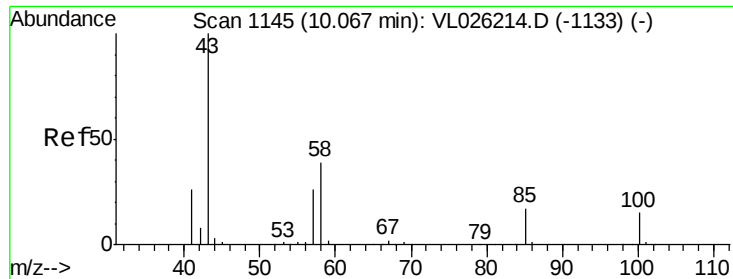
130 100

95 42.3 81.0 121.4#

132 95.1 76.5 114.7

97 0.0 52.5 78.7#

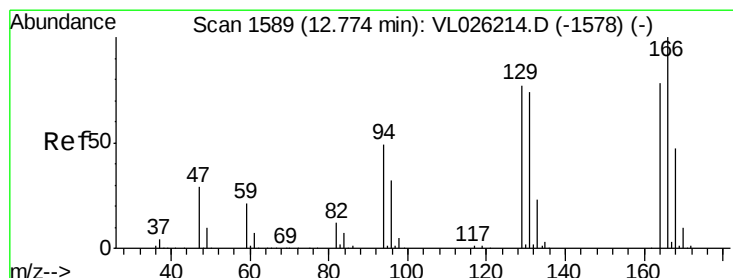
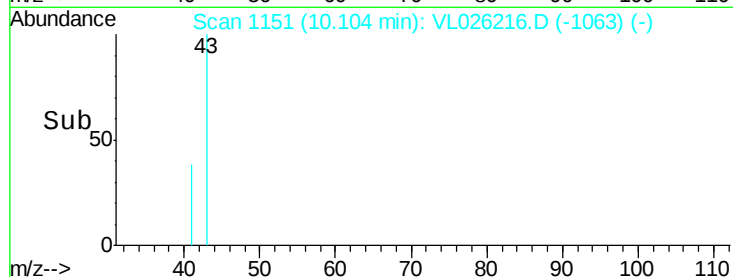
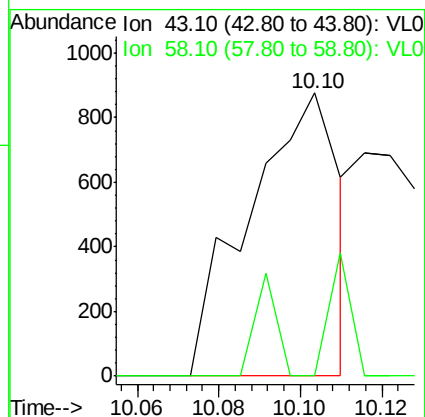
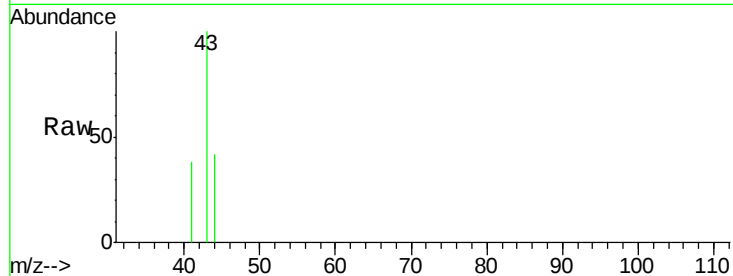




#50
4-Methyl-2-pentanone
Concen: 0.01 ppbv
RT: 10.10 min Scan# 1151
Delta R.T. 0.04 min
Lab File: VL026216.D
Acq: 20 Oct 2015 21:11

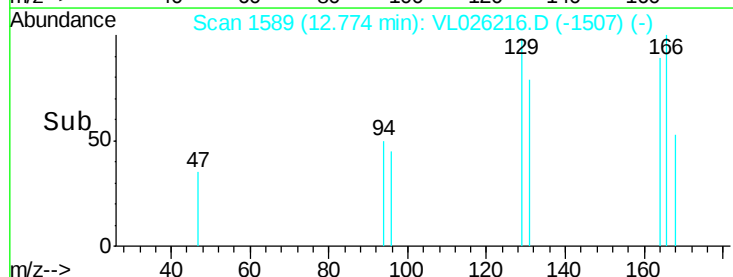
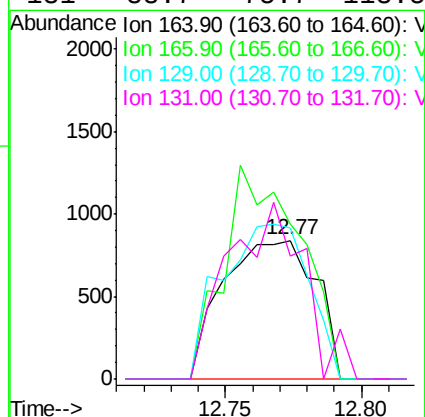
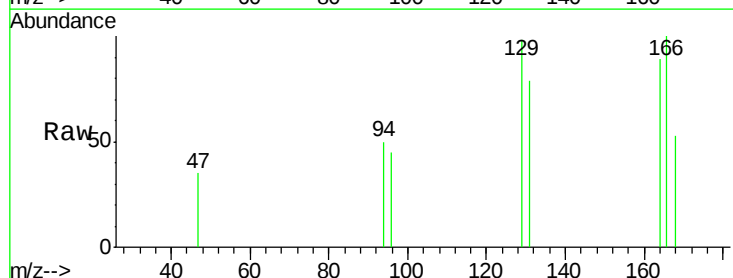
Instrument :
MSVOA_L
ClientSampleId :
VL1020ABL01

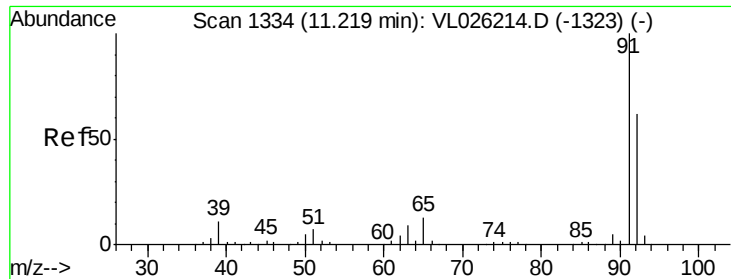
Tot Ion: 43 Resp: 1353
Ion Ratio Lower Upper
43 100
58 0.0 31.1 46.7#



#52
Tetrachloroethene
Concen: 0.02 ppbv
RT: 12.77 min Scan# 1589
Delta R.T. -0.00 min
Lab File: VL026216.D
Acq: 20 Oct 2015 21:11

Tgt Ion: 164 Resp: 1980
Ion Ratio Lower Upper
164 100
166 111.8 102.3 153.5
129 109.3 78.2 117.4
131 88.7 75.7 113.5





#53

Toluene

Concen: 0.01 ppbv

RT: 11.21 min Scan# 1332

Delta R.T. -0.01 min

Lab File: VL026216.D

Acq: 20 Oct 2015 21:11

Instrument :

MSVOA_L

ClientSampleId :

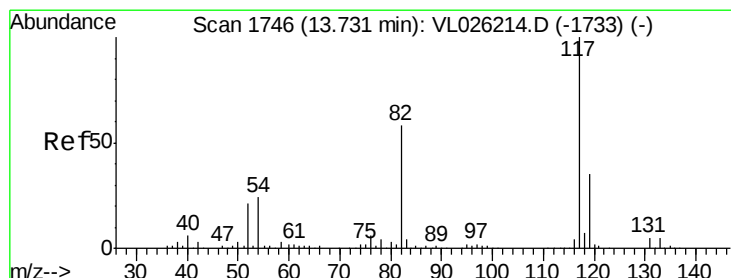
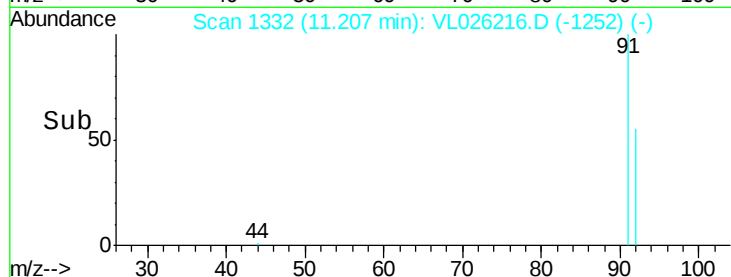
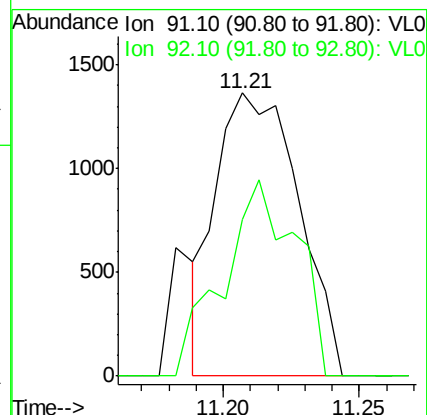
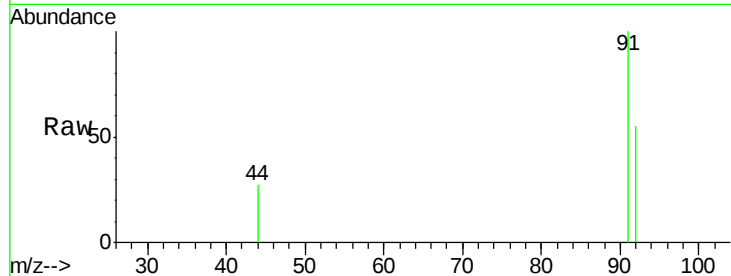
VL1020ABL01

Tot Ion: 91 Resp: 2871

Ion Ratio Lower Upper

91 100

92 61.1 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.71 min Scan# 1743

Delta R.T. -0.02 min

Lab File: VL026216.D

Acq: 20 Oct 2015 21:11

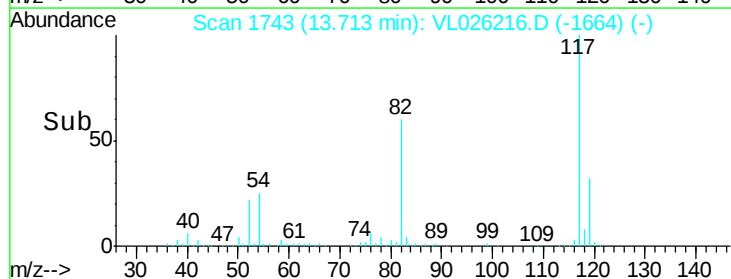
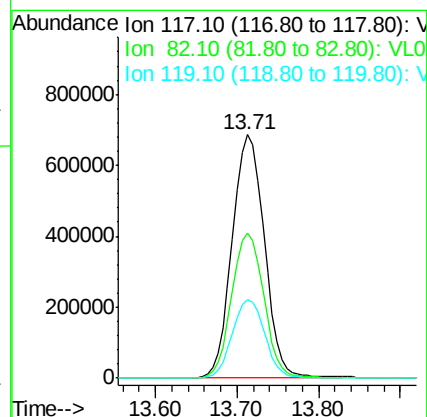
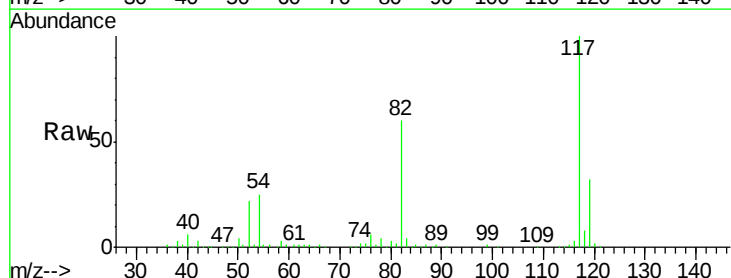
Tgt Ion: 117 Resp: 1882635

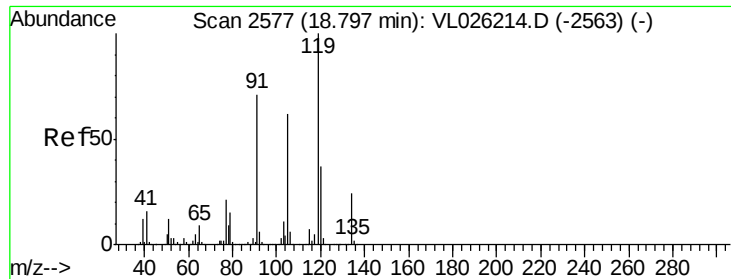
Ion Ratio Lower Upper

117 100

82 60.1 45.8 68.8

119 32.8 45.0 67.4#

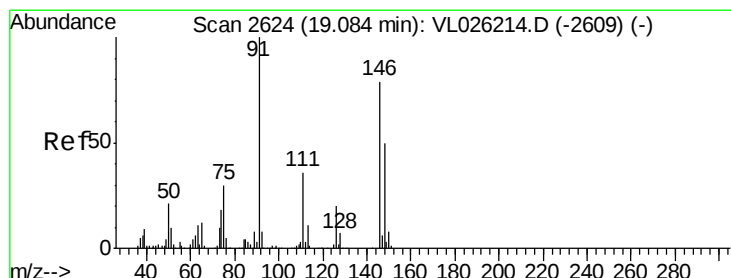
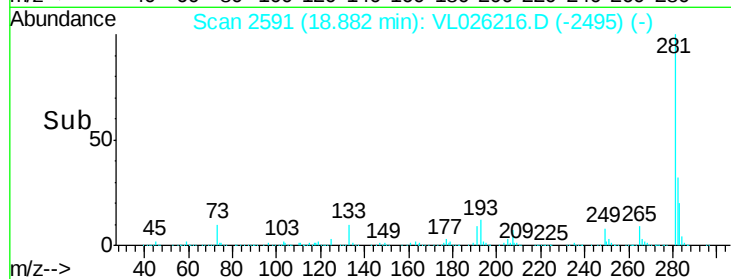
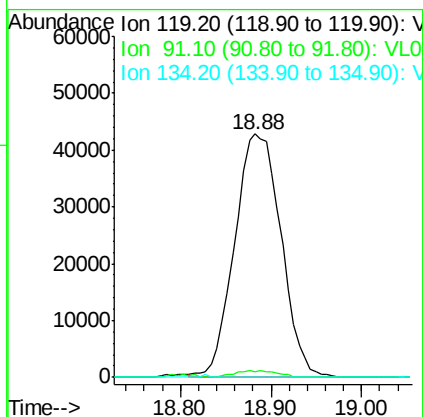
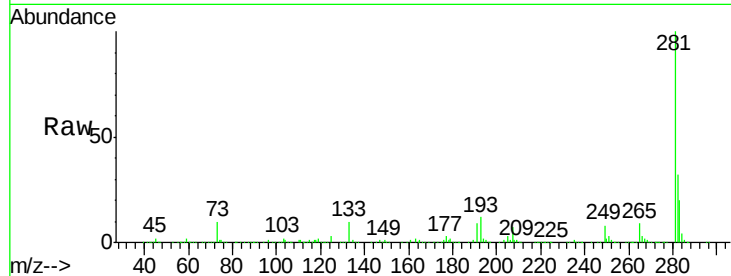




#65
 tert-Butylbenzene
 Concen: 0.48 ppbv
 RT: 18.88 min Scan# 2591
 Delta R.T. 0.09 min
 Lab File: VL026216.D
 Acq: 20 Oct 2015 21:11

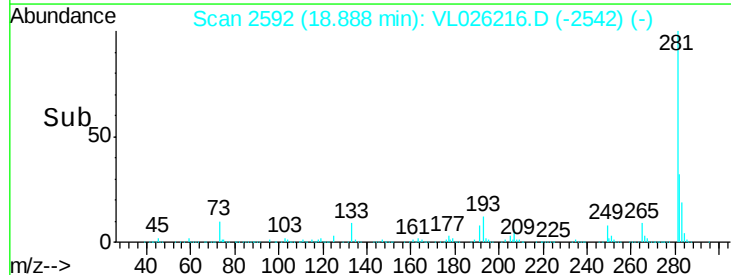
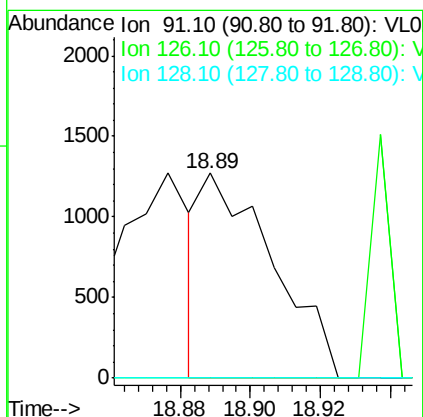
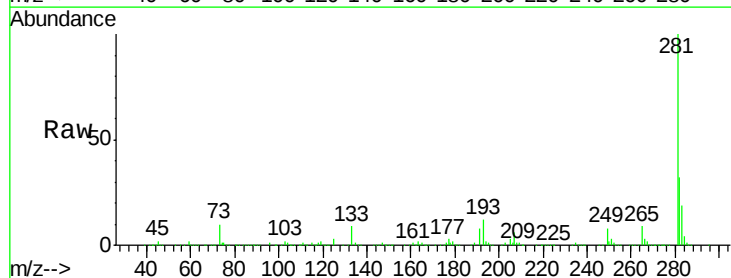
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1020ABL01

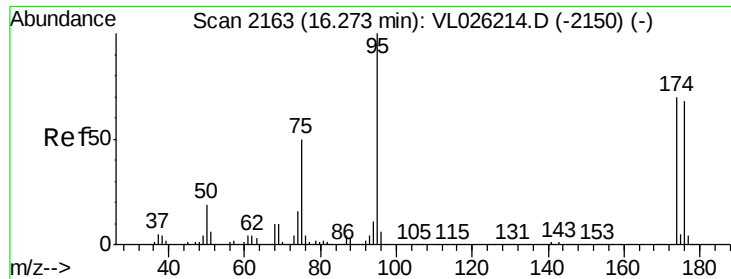
Tot Ion	Ratio	Lower	Upper
119	100		
91	2.6	57.5	86.3#
134	0.0	18.1	27.1#



#66
 Benzyl Chloride
 Concen: 0.01 ppbv
 RT: 18.89 min Scan# 2592
 Delta R.T. -0.20 min
 Lab File: VL026216.D
 Acq: 20 Oct 2015 21:11

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	16.2	24.2#
128	0.0	5.1	7.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.50 ppbv

RT: 16.25 min Scan# 2160

Delta R.T. -0.02 min

Lab File: VL026216.D

Acq: 20 Oct 2015 21:11

Instrument :

MSVOA_L

ClientSampleId :

VL1020ABL01

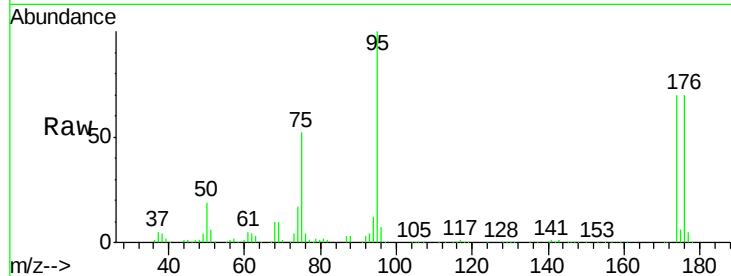
Tot Ion: 95 Resp: 1524262

Ion Ratio Lower Upper

95 100

174 70.4 55.8 83.8

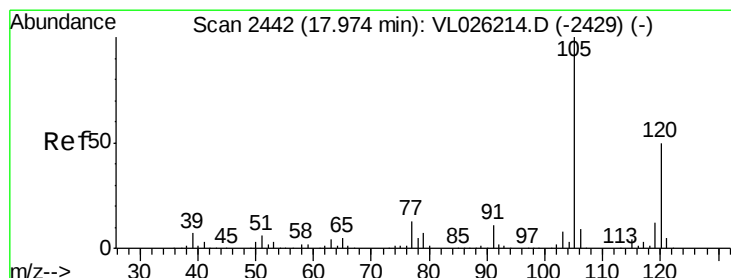
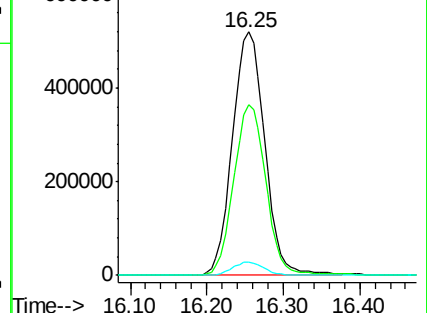
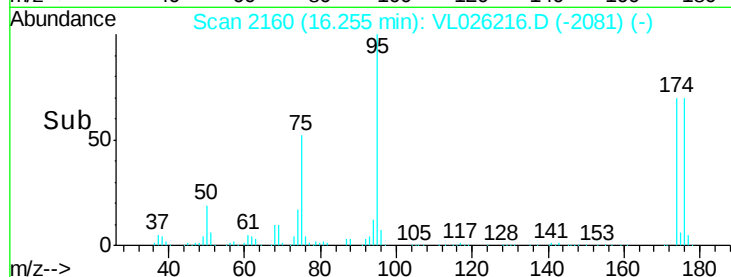
175 5.5 4.3 6.5



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



#73

1,3,5-Trimethylbenzene

Concen: 0.02 ppbv

RT: 17.96 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL026216.D

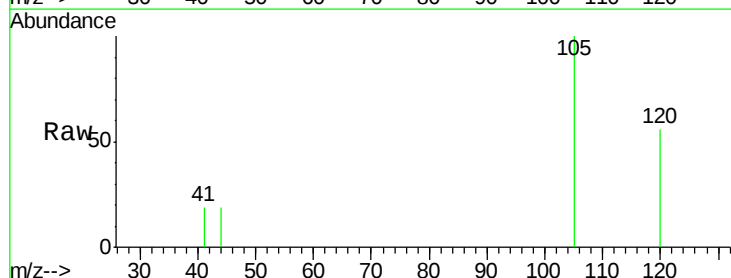
Acq: 20 Oct 2015 21:11

Tgt Ion: 105 Resp: 4703

Ion Ratio Lower Upper

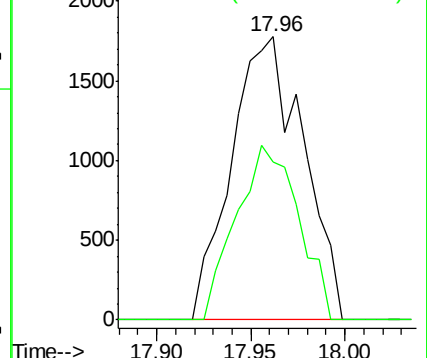
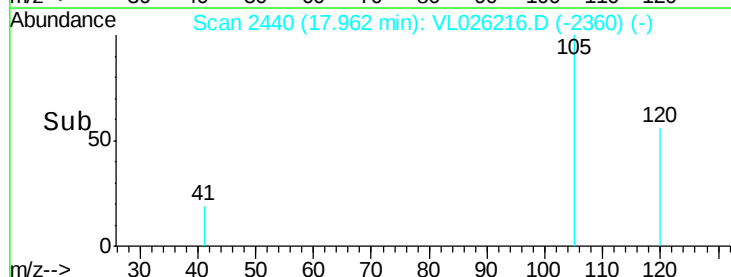
105 100

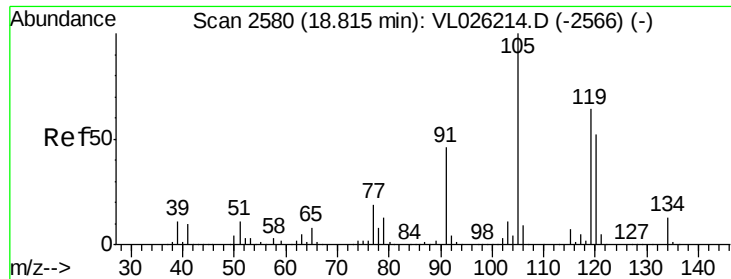
120 55.6 39.8 59.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.04 ppbv
 RT: 18.80 min Scan# 2577
 Delta R.T. -0.02 min
 Lab File: VL026216.D
 Acq: 20 Oct 2015 21:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1020ABL01

Tot Ion	Ratio	Lower	Upper
105	100		
120	34.4	41.2	61.8#
91	7.6	37.2	55.8#
77	11.5	15.6	23.4#

