

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102115\
 Data File : VL026247.D
 Acq On : 21 Oct 2015 21:05
 Operator : SY/MD
 Sample : G4128-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFDL

Quant Time: Oct 22 08:38:17 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	457022	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.29	114	1399193	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.72	117	1605160	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	1256761	10.15	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

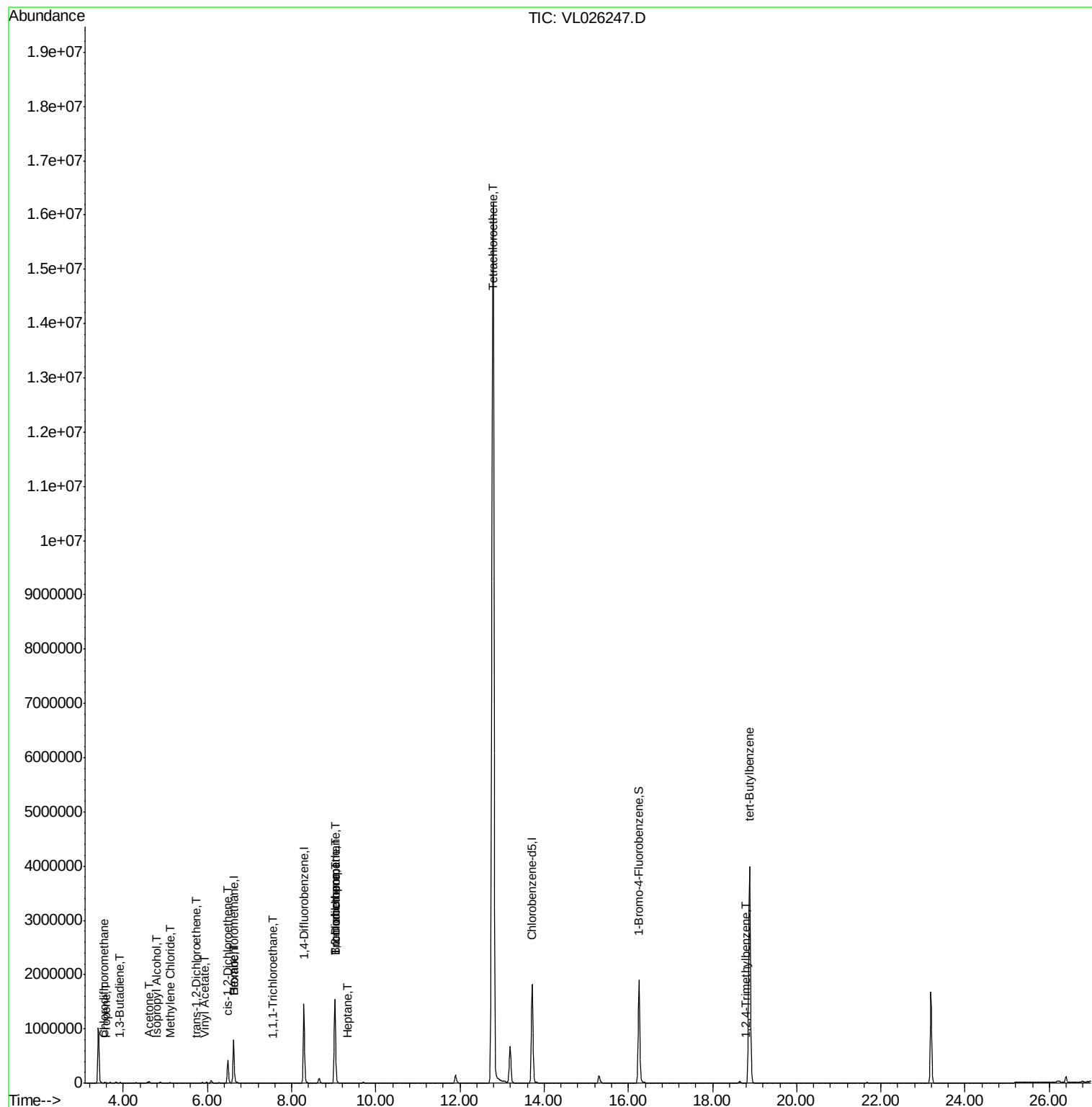
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.54	51	9336	0.16	ppbv #	90
9) Propene	3.58	41	1715	0.06	ppbv #	79
10) Heptane	9.32	43	2786	0.03	ppbv #	77
15) Acetone	4.61	43	33183	0.49	ppbv #	69
16) 1,3-Butadiene	3.92	39	2859	0.10	ppbv #	7
19) Isopropyl Alcohol	4.78	45	946	0.04	ppbv #	1
20) Methylene Chloride	5.13	84	2627	0.10	ppbv	87
22) trans-1,2-Dichloroethene	5.74	96	1836	0.05	ppbv	90
23) Vinyl Acetate	5.92	43	2532	0.02	ppbv #	1
26) Hexane	6.63	57	5561	0.09	ppbv #	49
31) cis-1,2-Dichloroethene	6.48	61	293455	5.13	ppbv	99
32) 1,1,1-Trichloroethane	7.56	97	3178	0.03	ppbv	90
38) Trichloroethene	9.03	130	656251	9.49	ppbv	99
39) 1,2-Dichloropropane	9.02	63	2485	0.05	ppbv #	1
42) Bromodichloromethane	9.03	83	8146	0.08	ppbv #	99
52) Tetrachloroethene	12.79	164	7728042	94.56	ppbv	96
65) tert-Butylbenzene	18.88	119	80060	0.30	ppbv #	26
74) 1,2,4-Trimethylbenzene	18.80	105	7332	0.03	ppbv #	67

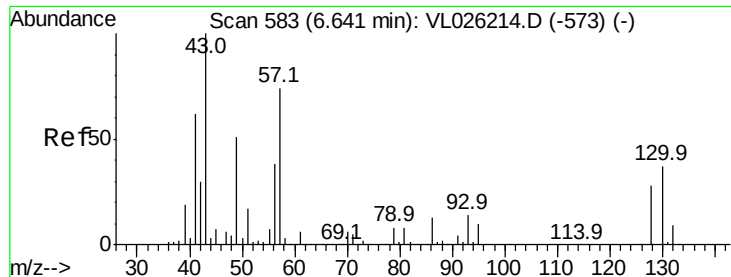
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

INFDL

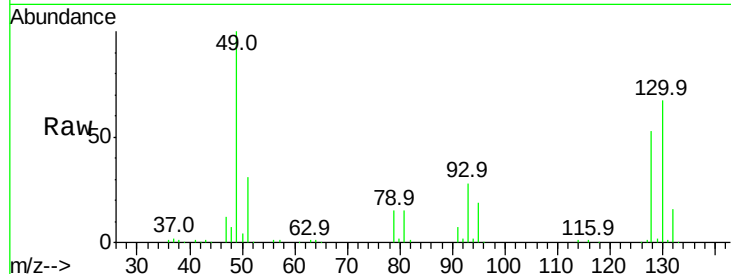
Tgt Ion: 49 Resp: 457022

Ion Ratio Lower Upper

49 100

128 56.0 28.2 84.7

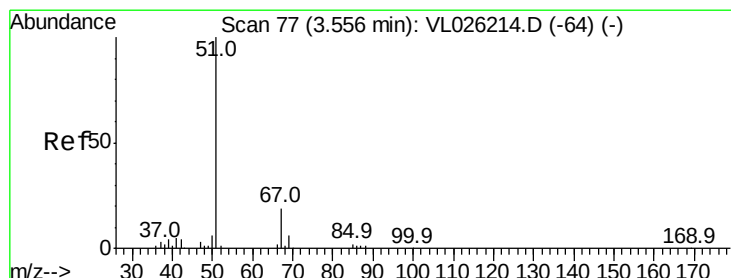
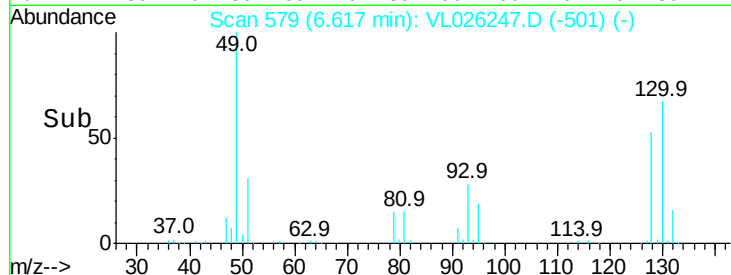
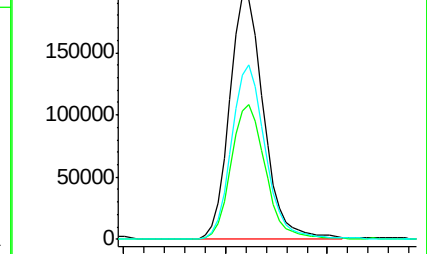
130 71.4 36.0 108.1



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: 0.16 ppbv

RT: 3.54 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL026247.D

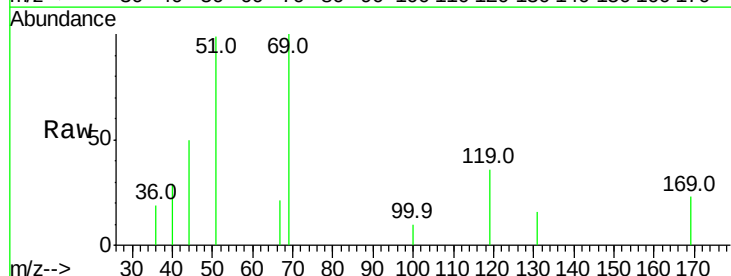
Acq: 21 Oct 2015 21:05

Tgt Ion: 51 Resp: 9336

Ion Ratio Lower Upper

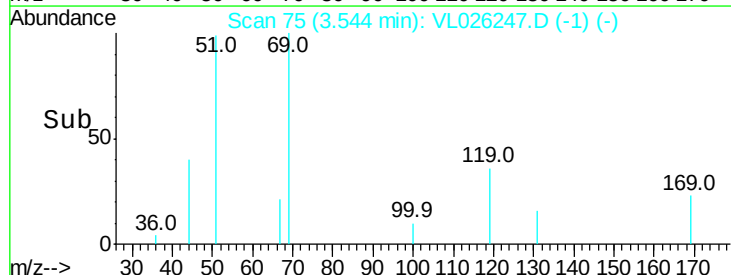
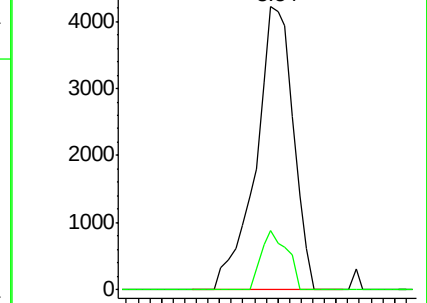
51 100

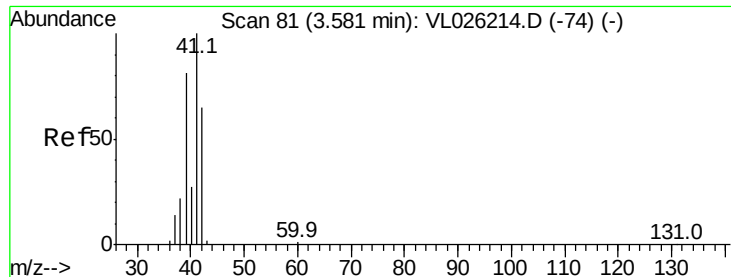
67 14.6 15.3 22.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.06 ppbv

RT: 3.58 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

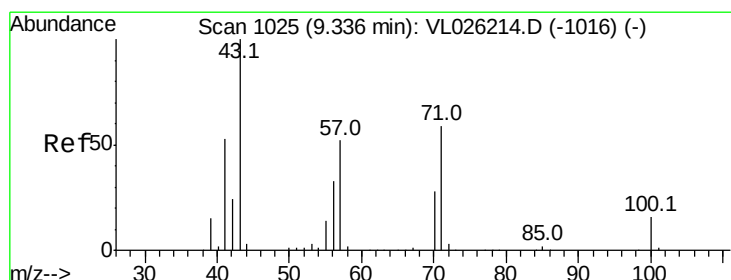
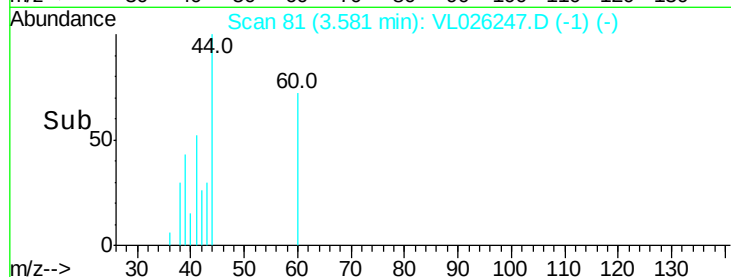
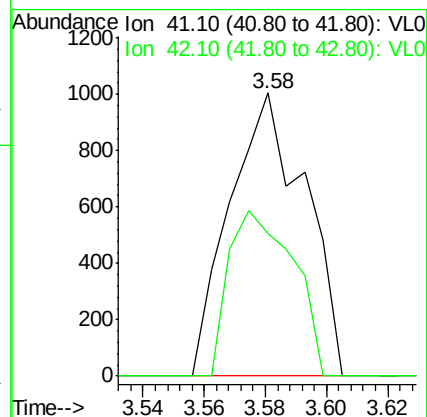
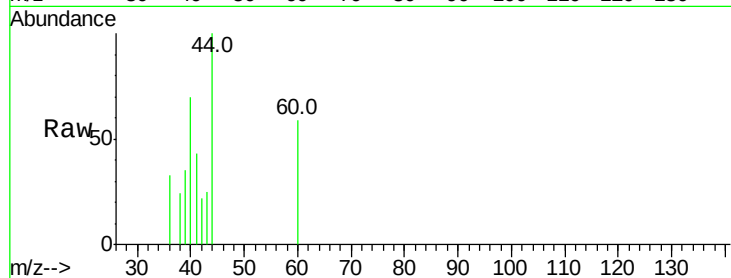
INFDL

Tgt Ion: 41 Resp: 1715

Ion Ratio Lower Upper

41 100

42 50.3 53.8 80.8#



#10

Heptane

Concen: 0.03 ppbv

RT: 9.32 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VL026247.D

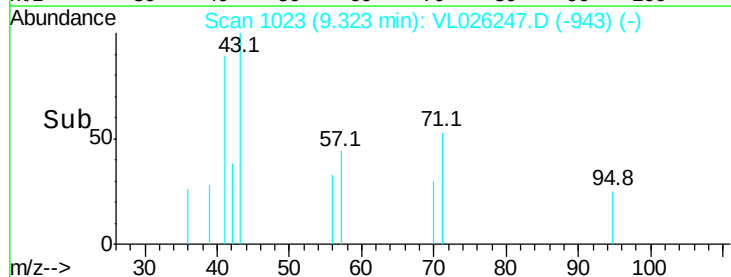
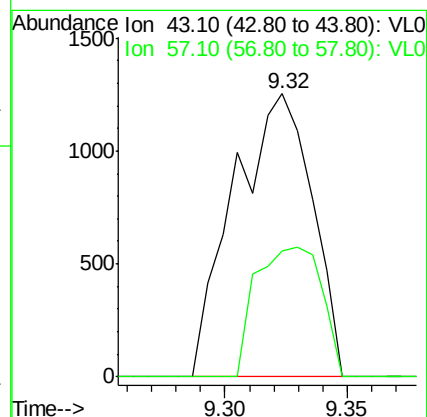
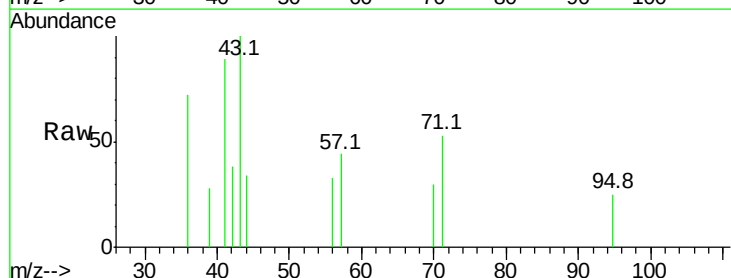
Acq: 21 Oct 2015 21:05

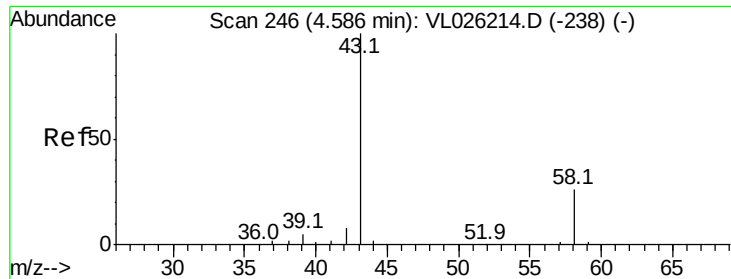
Tgt Ion: 43 Resp: 2786

Ion Ratio Lower Upper

43 100

57 38.4 43.7 65.5#





#15

Acetone

Concen: 0.49 ppbv

RT: 4.61 min Scan# 250

Delta R.T. 0.02 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

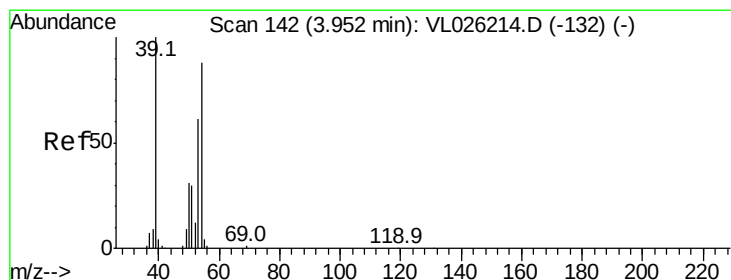
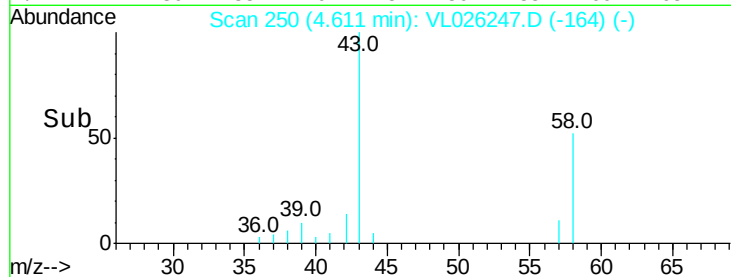
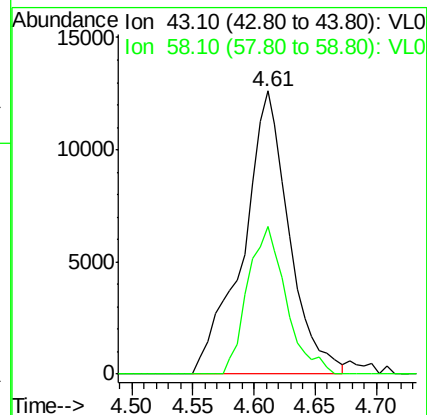
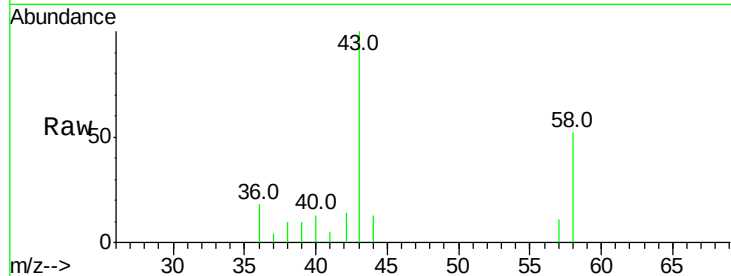
INFDL

Tgt Ion: 43 Resp: 33183

Ion Ratio Lower Upper

43 100

58 43.5 21.8 32.6#



#16

1,3-Butadiene

Concen: 0.10 ppbv

RT: 3.92 min Scan# 137

Delta R.T. -0.03 min

Lab File: VL026247.D

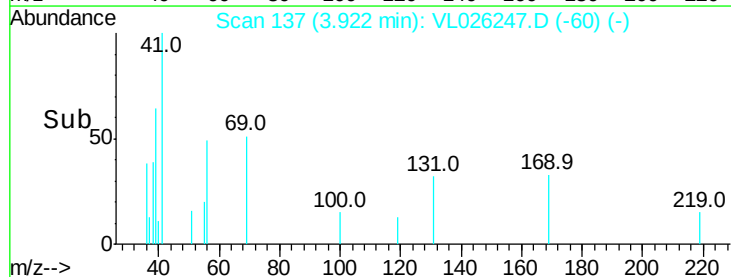
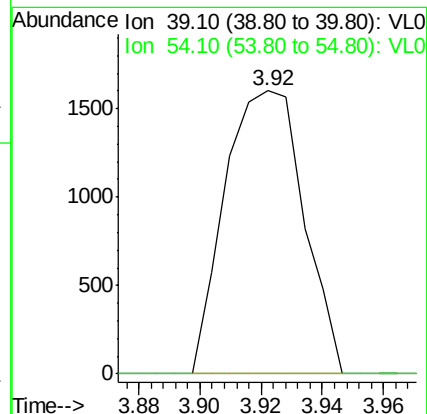
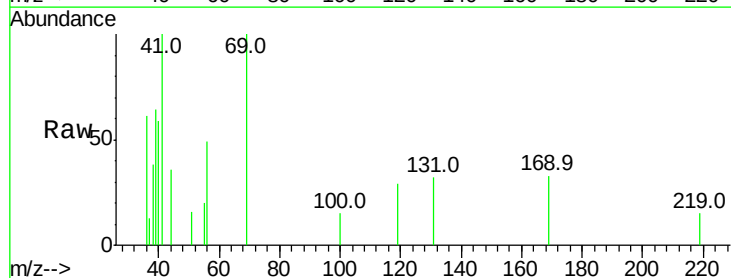
Acq: 21 Oct 2015 21:05

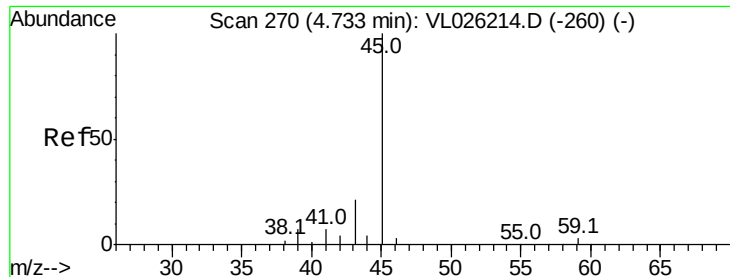
Tgt Ion: 39 Resp: 2859

Ion Ratio Lower Upper

39 100

54 0.0 67.3 100.9#





#19

Isopropyl Alcohol

Concen: 0.04 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.04 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

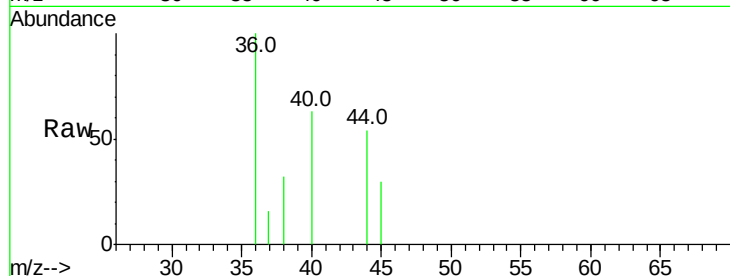
INFDL

Tgt Ion: 45 Resp: 946

Ion Ratio Lower Upper

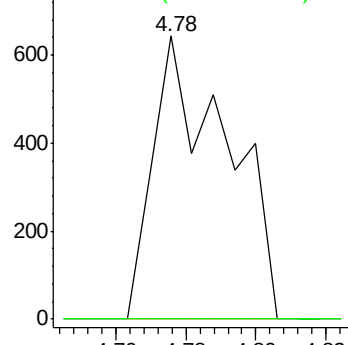
45 100

58 1525.2 40.3 60.5#

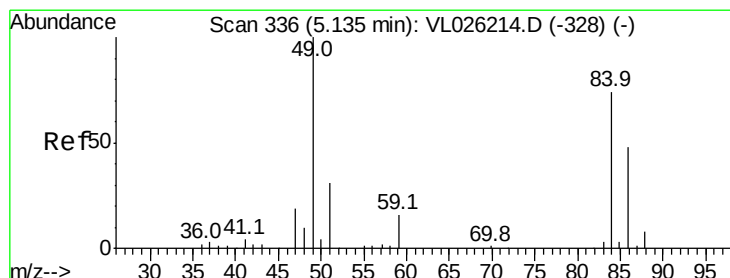
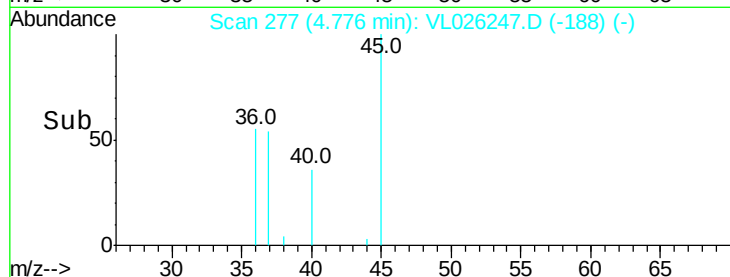


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->



#20

Methylene Chloride

Concen: 0.10 ppbv

RT: 5.13 min Scan# 335

Delta R.T. -0.01 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Tgt Ion: 84 Resp: 2627

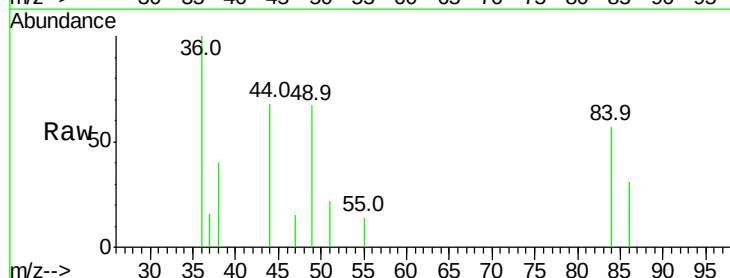
Ion Ratio Lower Upper

84 100

49 116.8 108.7 163.1

51 39.2 33.7 50.5

86 54.2 52.2 78.2

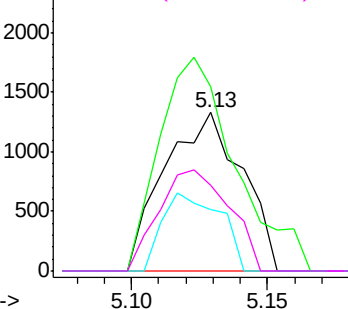


Abundance Ion 84.00 (83.70 to 84.70): VL0

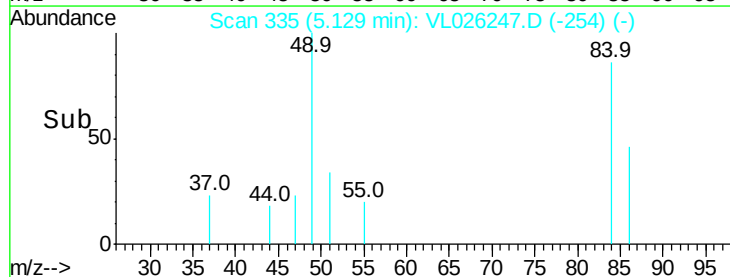
Ion 49.10 (48.80 to 49.80): VL0

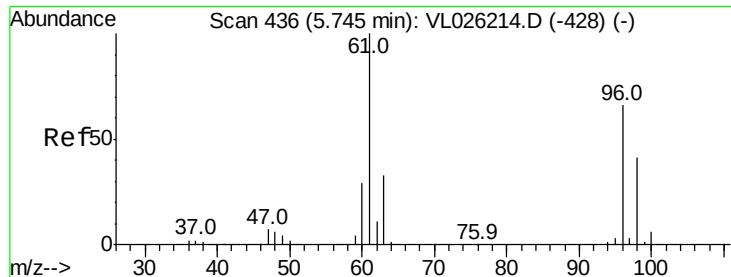
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



Time-->





#22

trans-1,2-Dichloroethene

Concen: 0.05 ppbv

RT: 5.74 min Scan# 435

Delta R.T. -0.01 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

INFDL

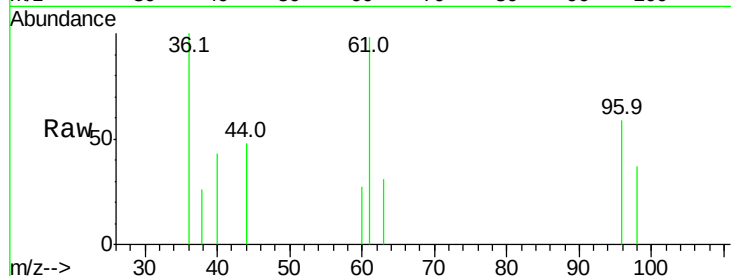
Tgt Ion: 96 Resp: 1836

Ion Ratio Lower Upper

96 100

61 134.8 121.5 182.3

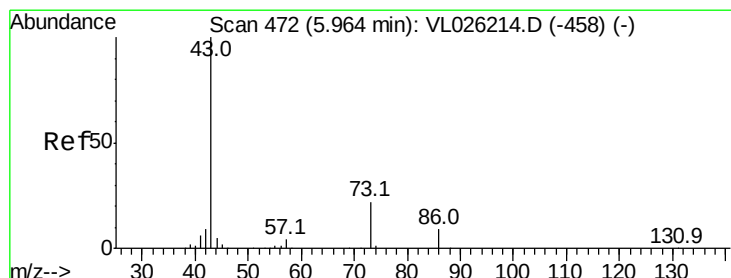
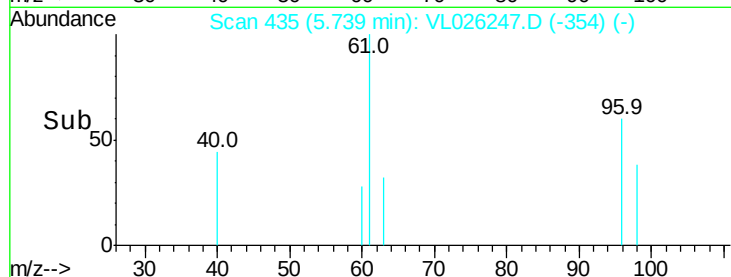
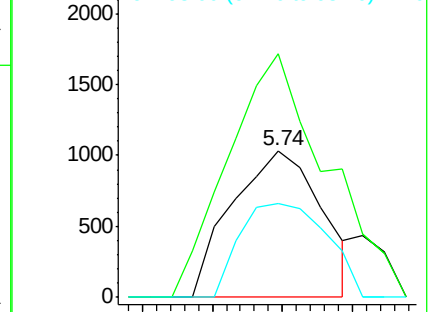
98 63.8 49.7 74.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.02 ppbv

RT: 5.92 min Scan# 465

Delta R.T. -0.04 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Tgt Ion: 43 Resp: 2532

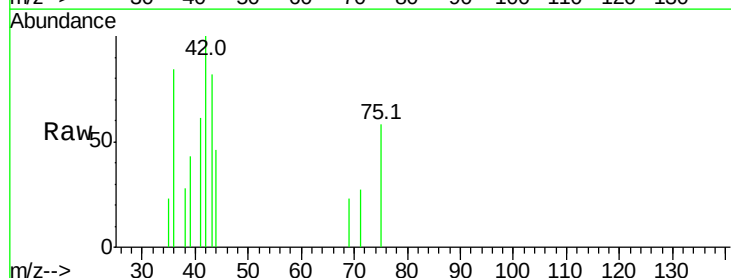
Ion Ratio Lower Upper

43 100

86 0.0 7.0 10.6#

42 121.3 7.5 11.3#

44 0.0 3.6 5.4#

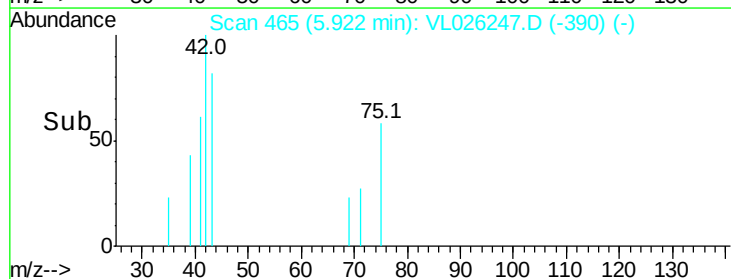
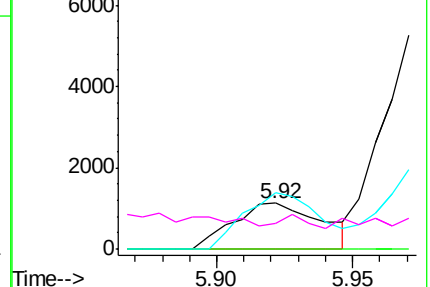


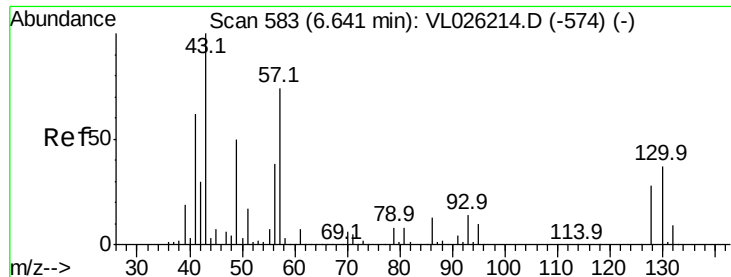
Abundance Ion 43.10 (42.80 to 43.80): VL0

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





#26

Hexane

Concen: 0.09 ppbv

RT: 6.63 min Scan# 581

Delta R.T. -0.01 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

INFDL

Tgt Ion: 57 Resp: 5561

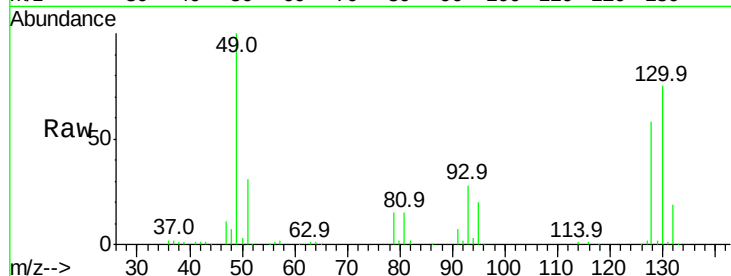
Ion Ratio Lower Upper

57 100

41 89.4 68.1 102.1

43 75.3 163.4 245.2#

56 52.8 42.2 63.4

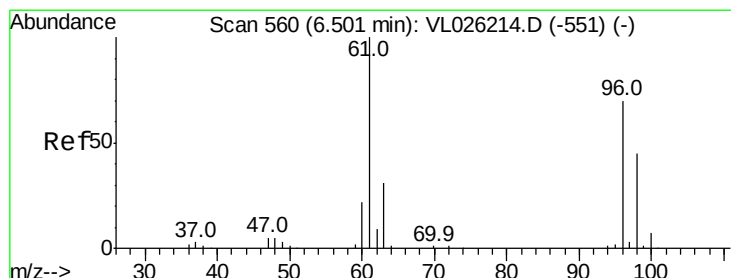
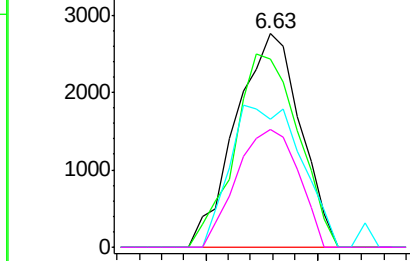
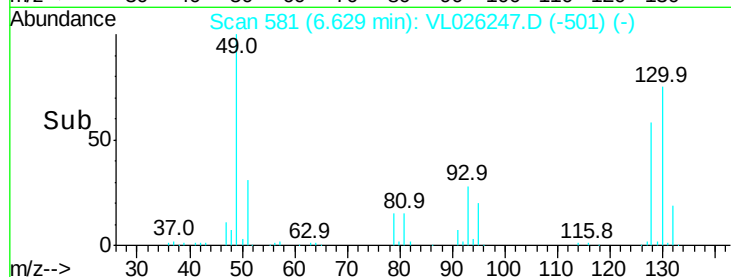


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#31

cis-1,2-Dichloroethene

Concen: 5.13 ppbv

RT: 6.48 min Scan# 557

Delta R.T. -0.02 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

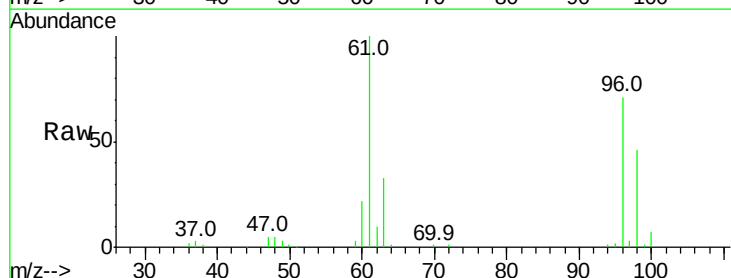
Tgt Ion: 61 Resp: 293455

Ion Ratio Lower Upper

61 100

96 70.6 56.0 84.0

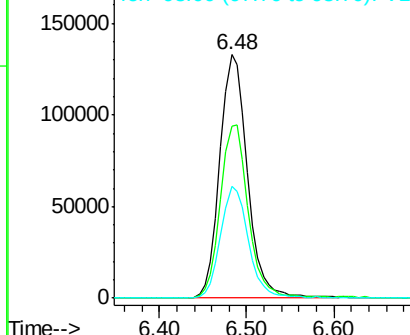
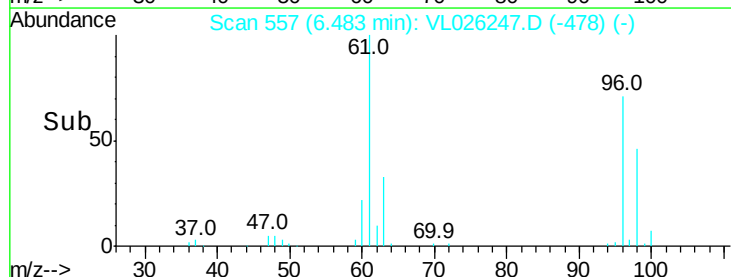
98 45.7 36.1 54.1

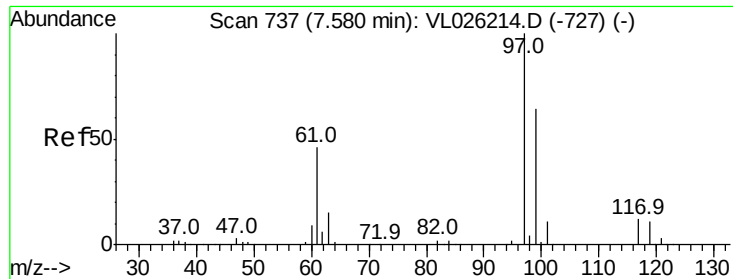


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.03 ppbv

RT: 7.56 min Scan# 734

Delta R.T. -0.02 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

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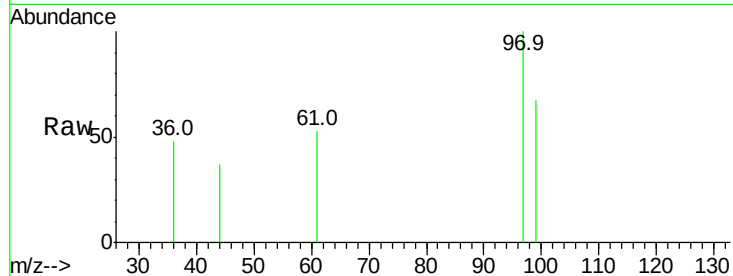
Tgt Ion: 97 Resp: 3178

Ion Ratio Lower Upper

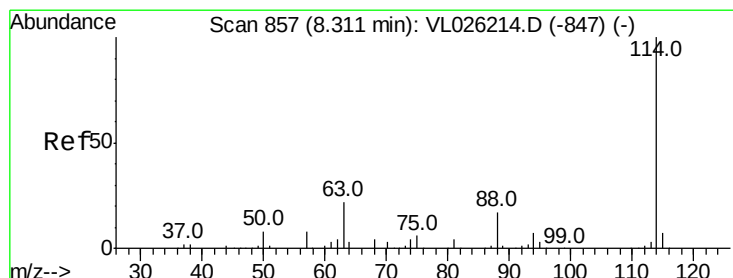
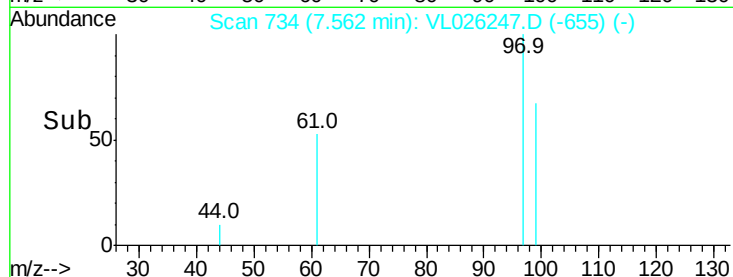
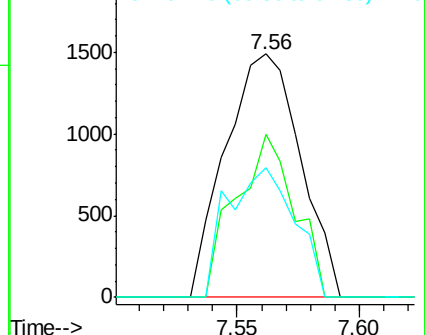
97 100

99 52.9 51.4 77.0

61 48.0 36.2 54.4



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.29 min Scan# 854

Delta R.T. -0.02 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

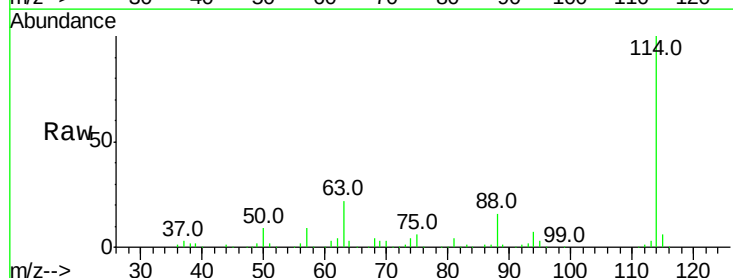
Tgt Ion: 114 Resp: 1399193

Ion Ratio Lower Upper

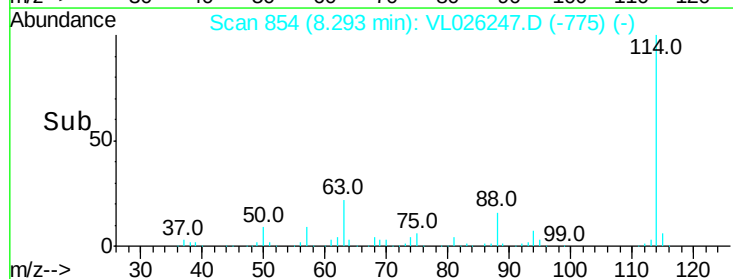
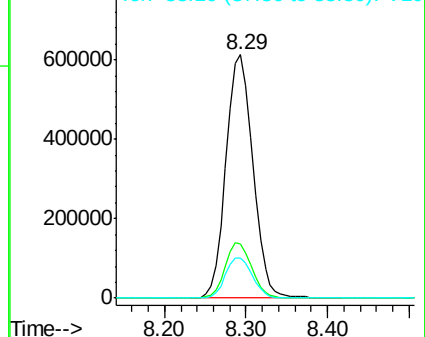
114 100

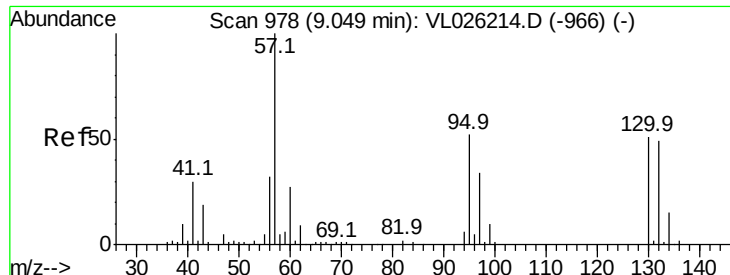
63 22.6 18.2 27.4

88 16.7 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





#38

Trichloroethene

Concen: 9.49 ppbv

RT: 9.03 min Scan# 975

Delta R.T. -0.02 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

INFDL

Tgt Ion:130 Resp: 656251

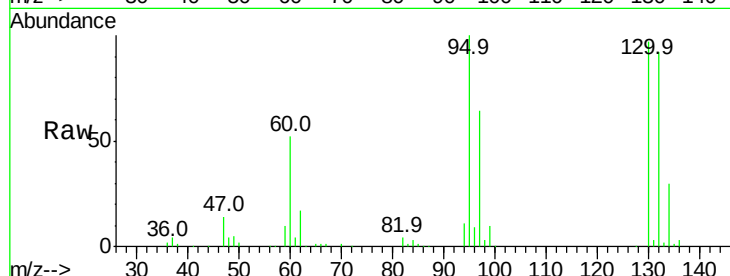
Ion Ratio Lower Upper

130 100

95 103.2 81.0 121.4

132 95.4 76.5 114.7

97 66.0 52.5 78.7

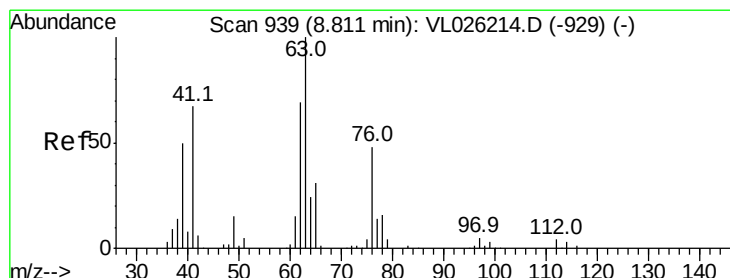
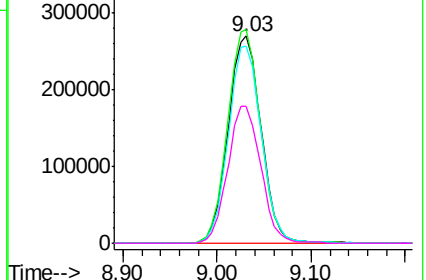
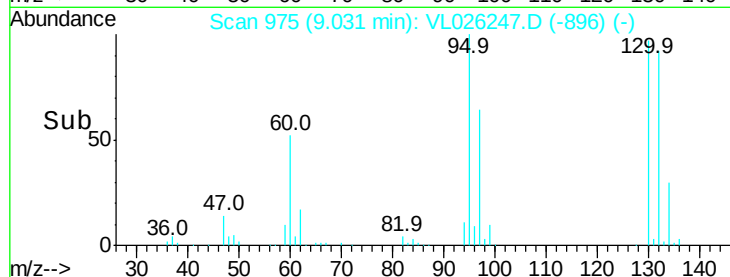


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.05 ppbv

RT: 9.02 min Scan# 974

Delta R.T. 0.21 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

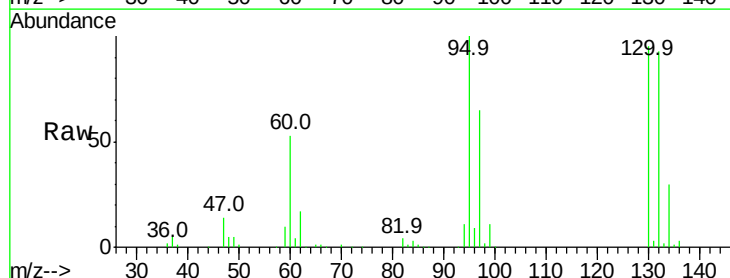
Tgt Ion: 63 Resp: 2485

Ion Ratio Lower Upper

63 100

41 0.0 53.2 79.8#

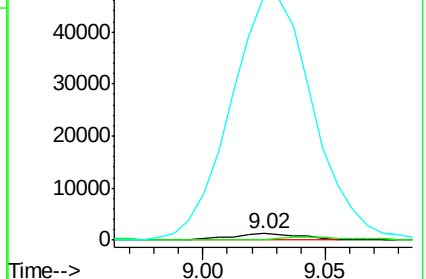
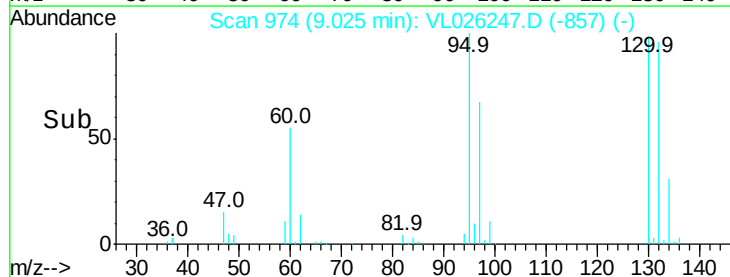
62 3457.3 55.4 83.2#

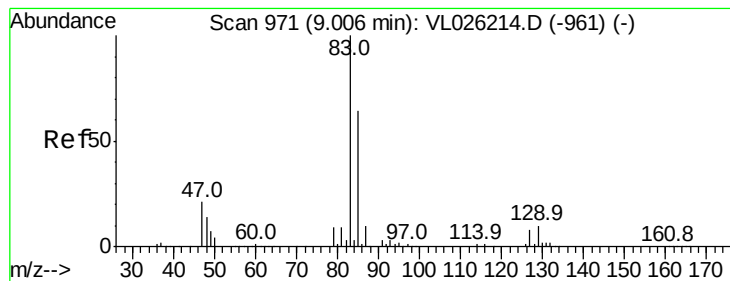


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.08 ppbv

RT: 9.03 min Scan# 975

Delta R.T. 0.02 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

INFDL

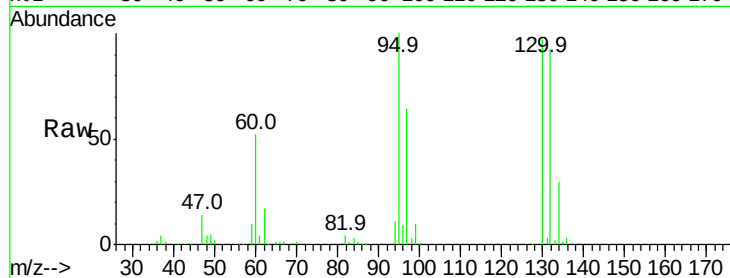
Tgt Ion: 83 Resp: 8146

Ion Ratio Lower Upper

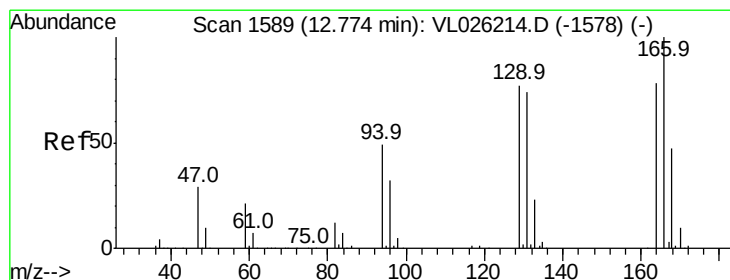
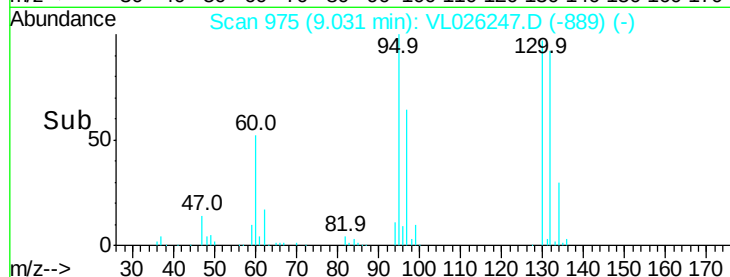
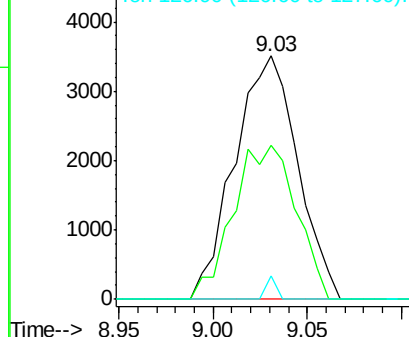
83 100

85 63.2 50.9 76.3

127 9.4 6.2 9.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#52

Tetrachloroethene

Concen: 94.56 ppbv

RT: 12.79 min Scan# 1591

Delta R.T. 0.01 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Tgt Ion:164 Resp: 7728042

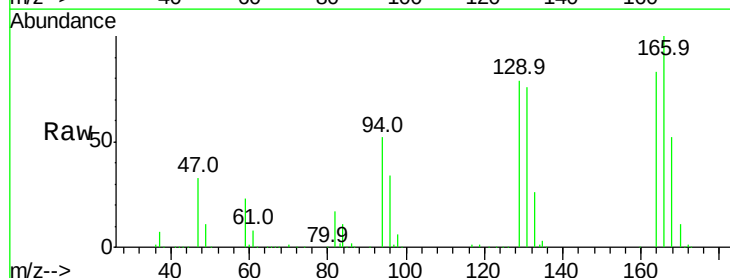
Ion Ratio Lower Upper

164 100

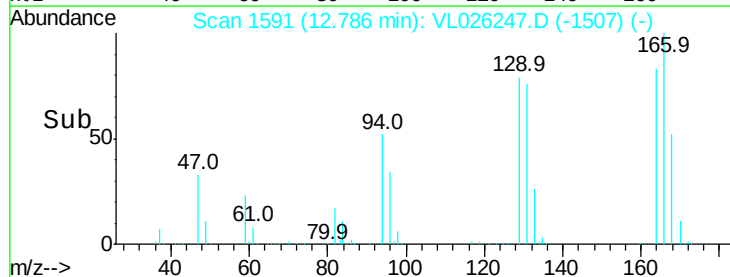
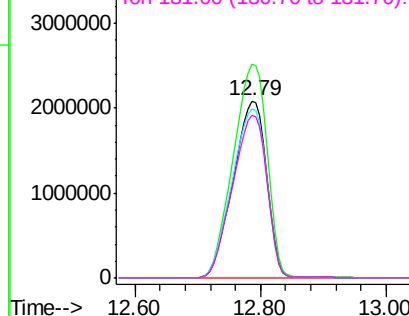
166 120.8 102.3 153.5

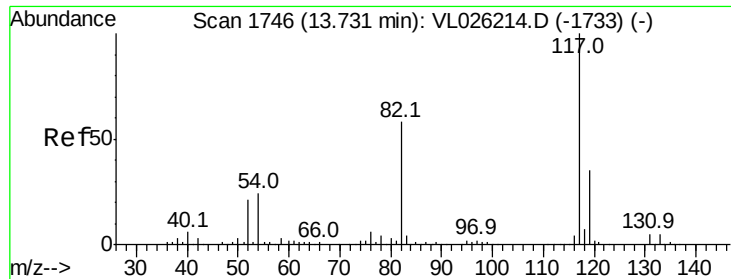
129 95.7 78.2 117.4

131 91.8 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

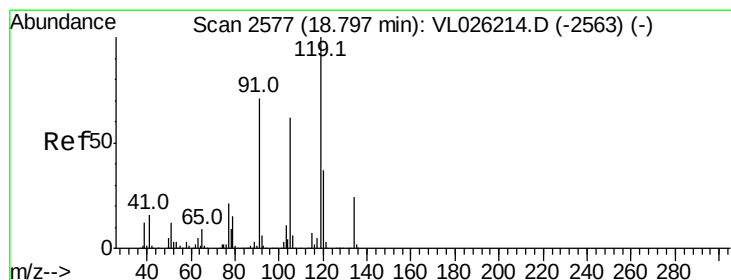
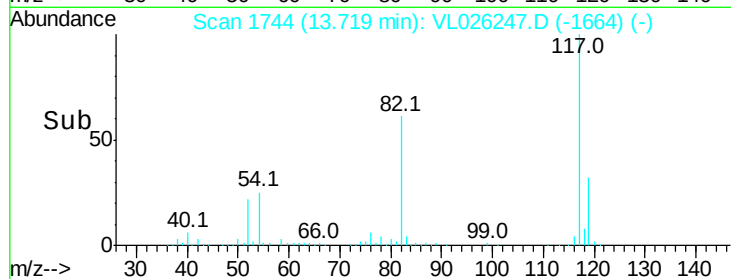
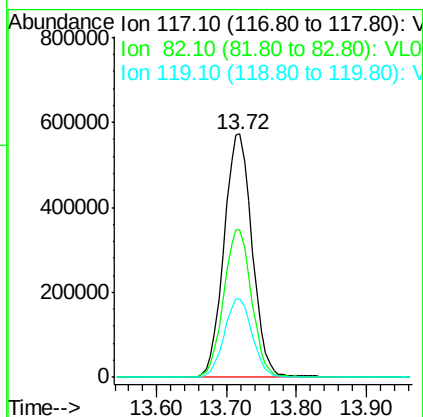
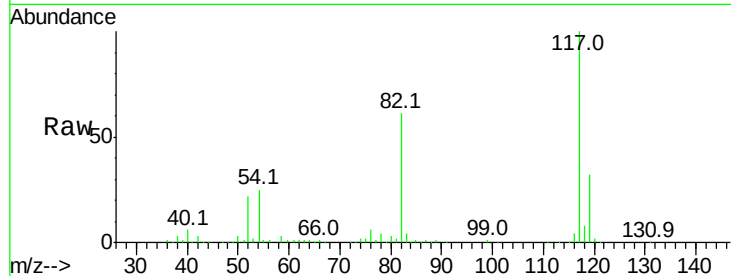




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.72 min Scan# 1744
Delta R.T. -0.01 min
Lab File: VL026247.D
Acq: 21 Oct 2015 21:05

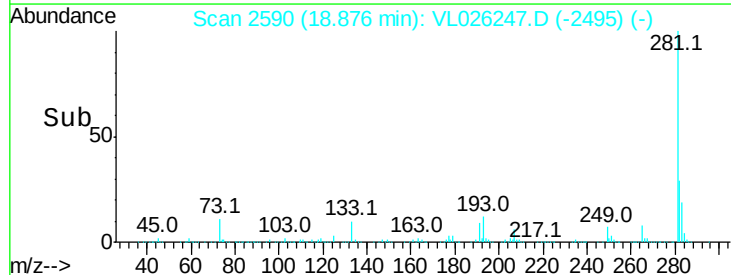
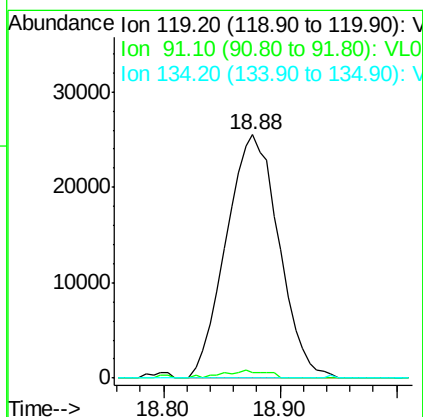
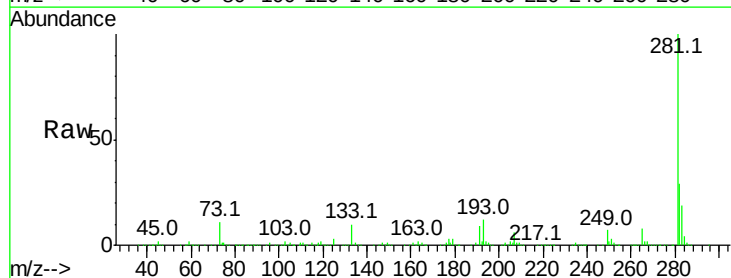
Instrument :
MSVOA_L
ClientSampleId :
INFDL

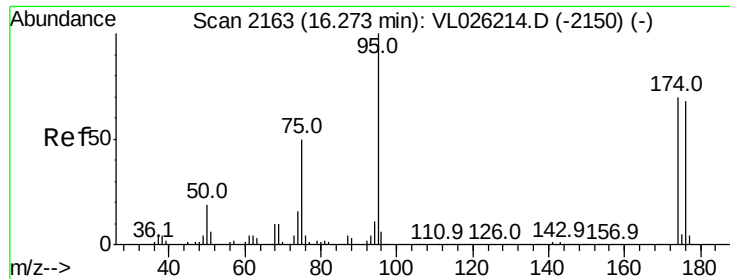
Tgt Ion:117 Resp: 1605160
Ion Ratio Lower Upper
117 100
82 60.5 45.8 68.8
119 32.4 45.0 67.4#



#65
tert-Butylbenzene
Concen: 0.30 ppbv
RT: 18.88 min Scan# 2590
Delta R.T. 0.08 min
Lab File: VL026247.D
Acq: 21 Oct 2015 21:05

Tgt Ion:119 Resp: 80060
Ion Ratio Lower Upper
119 100
91 2.9 57.5 86.3#
134 0.0 18.1 27.1#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.15 ppbv

RT: 16.25 min Scan# 2159

Delta R.T. -0.02 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Instrument :

MSVOA_L

ClientSampleId :

INFDL

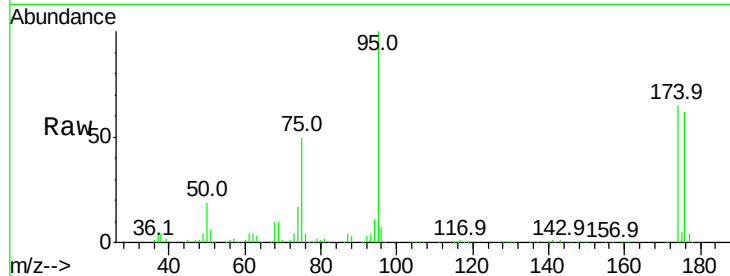
Tgt Ion: 95 Resp: 1256761

Ion Ratio Lower Upper

95 100

174 66.4 55.8 83.8

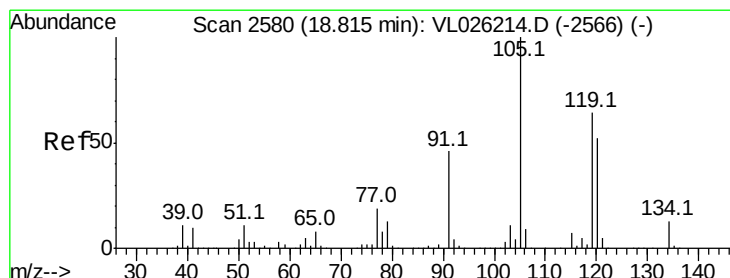
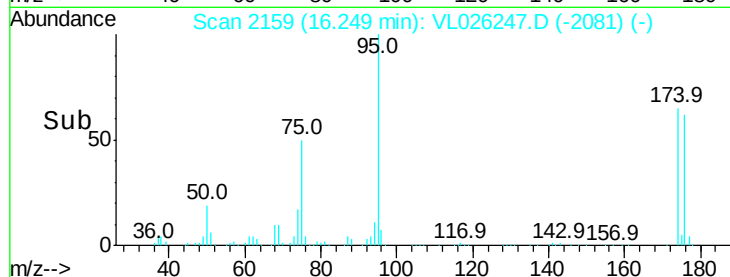
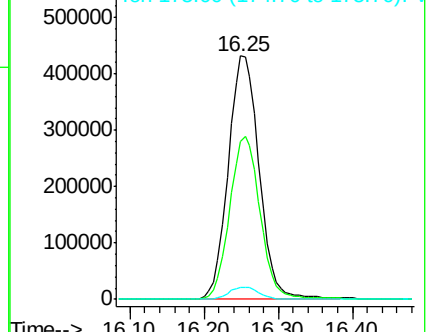
175 4.9 4.3 6.5



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: 0.03 ppbv

RT: 18.80 min Scan# 2577

Delta R.T. -0.02 min

Lab File: VL026247.D

Acq: 21 Oct 2015 21:05

Tgt Ion: 105 Resp: 7332

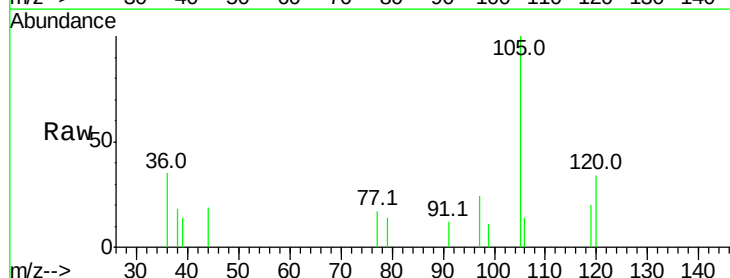
Ion Ratio Lower Upper

105 100

120 34.0 41.2 61.8#

91 12.1 37.2 55.8#

77 16.5 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

