

DataTrace Applications

Subject: Bio-hazardous Waste Heat Penetration Study

Equipment: 5 Data Loggers in each Autoclave - 4 Penetrations 1 Drain

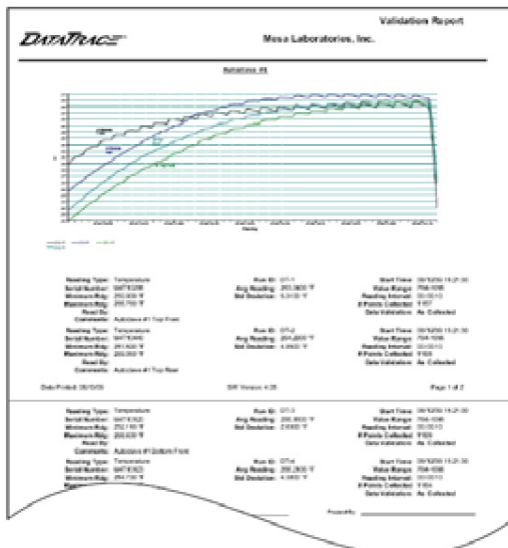
Exposure Time: 30 minutes at 250°F

Cycle Time: 2 hours

The client chose DataTrace RF for this application because they wanted:

- The ability to monitor the autoclaves from a laptop in the Waste Disposal Area or a desk top PC connected to their network.
- Real-time actual N.I.S.T. traceable temperature reading at the coldest spot of each biohazard bag.
- The ability to release the load in real-time once all samples achieved required exposure temperature and time.
- To be confident they achieved sterilization.
- To reduce the current cycle from 120 minutes to 90 minutes which would increase the efficiency of the autoclaves by 25%.
- To be completely wireless and did not want to use thermocouples or semi-wireless systems which would dramatically increase the time to load and unload the autoclaves and would cancel any cycle time reduction.
- To reduce or eliminate the need to bring in costly third party validation companies each time they failed to achieve proper sterilization during bi-weekly biological monitoring tests.
- To eliminate the need for chart recorders.

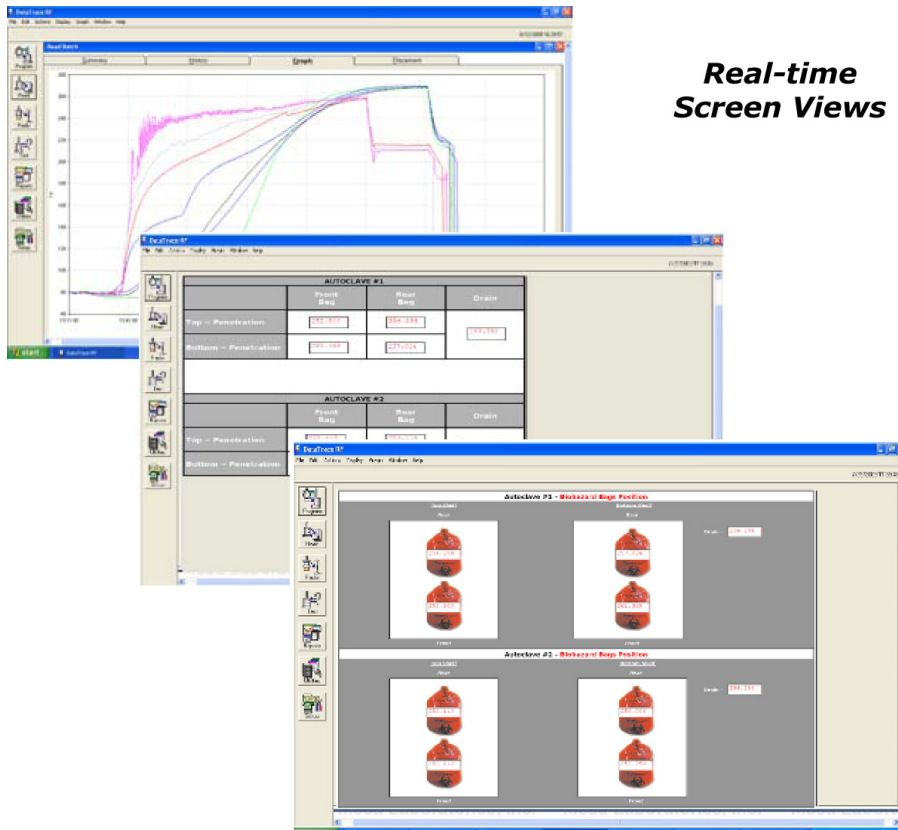
Validation Reports



Period at 250F and Above

Run #	Temp	Start Time	Stop Time	Avg Reading	Min Reading	Max Reading	# Points Collected
001	250.00 F	08/12/09 14:27:00	08/12/09 14:57:00	250.000	249.999	250.001	1000
002	250.00 F	08/12/09 14:57:00	08/12/09 15:27:00	250.000	249.999	250.001	1000
003	250.00 F	08/12/09 15:27:00	08/12/09 15:57:00	250.000	249.999	250.001	1000
004	250.00 F	08/12/09 15:57:00	08/12/09 16:27:00	250.000	249.999	250.001	1000
005	250.00 F	08/12/09 16:27:00	08/12/09 16:57:00	250.000	249.999	250.001	1000

Data Trace Technical Note



**Real-time
Screen Views**

DTRF Equipment Placement

