

TEST 3: RunFullValidationMaster - Instructions

Version: Phase 2 - Test 3

Date: 2026-01-19

Status: Ready to Execute

Setup Confirmed

- ✓ **Test data:** Ready
 - ✓ **Validation rules:** Populated (Phase 2B rules)
 - ✓ **Test scenarios:** Set up
 - ✓ **GlobalDebugOn:** Set to "ON"
-

Module Requirements

Required Modules (Test 2 Versions):

1. ✓ **AV_Core_v2.1_COMPLETE.bas** - From Test 2
2. ✓ **AV_UI_v2.1_Test2.bas** - From Test 2
3. **AV_Constants.bas** - Phase 2 version (if not already imported)
4. **AV_DataAccess.bas** - Phase 2 version (if not already imported)

Phase 2 Modules (from project folder):

5. **av_engine_fixed.bas** - Use as AV_Engine
6. **av_format_fixed.bas** - Use as AV_Format
7. **av_validators_RoutingLayer.bas** - Use as AV_Validators

8. **av_validation_BusinessRules.bas** - Use as AV_ValidationRules

Test Module:

9. **Test3_RunFullValidation.bas** - New (just created)

Test Procedure

Step 1: Pre-Flight Check

Run this first to verify everything is ready:

vba

Test3_PreFlightCheck

Expected Output:

TEST 3 - PRE-FLIGHT CHECK

Check 1: GlobalDebugOn setting...

✓ PASS: GlobalDebugOn = ON

Check 2: AutoValidationCommentPrefixMappingTable...

✓ PASS: Table found with 9 validation functions

Check 3: AutoFormatOnFullValidation table...

✓ PASS: Table found with 3 format types

Check 4: Validation rule tables...

✓ GIWValidationTable (X rules)

✓ ElectricityPairValidation (X rules)

✓ PlumbingPairValidation (X rules)

✓ HeatSourcePairValidation (X rules)

✓ HeatSourceANYRefTable (X rules)

Check 5: Target data sheet...

✓ PASS: Target sheet 'ReviewTable' exists

Data range: Row X to Y

Total rows: Z

PRE-FLIGHT CHECK: ✓ ALL SYSTEMS GO

Ready to run Test3_RunValidation

If any checks FAIL: Fix the issue before proceeding.

Step 2: Quick Validation (Recommended First)

Test with small sample (10 rows only):

```
vba
```

```
Test3_QuickValidation
```

What this does:

- Temporarily sets row count to 10
- Runs full validation on 10 rows
- Restores original row count
- Good for quick verification

Expected:

- ValidationTrackerForm appears
- Progress messages appear
- Debug messages in Immediate Window (GlobalDebugEnabled = ON)
- Validation completes
- Check target sheet for results

Step 3: Full Validation

Once quick test passes, run full validation:

```
vba
```

What this does:

- Runs validation on all configured rows
- Shows elapsed time
- Reports completion status

Monitor:

1. **ValidationTrackerForm:** Progress updates
 2. **Immediate Window:** Debug messages (if GlobalDebugOn = ON)
 3. **Target Sheet:** Validation results applied
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What to Watch For

During Validation

ValidationTrackerForm should show:

- "Initializing Full Validation Master"
- "Target sheet: [SheetName]"
- "Row range: X to Y"
- Progress updates every 10 rows
- "ADVANCED AUTO VALIDATIONS COMPLETE"
- "Standard menu accessible field validation Completed"

Immediate Window (if GlobalDebugOn = ON):

```
[DEBUG] AV_Core :: Table found: AutoValidationCommentPrefixMappingTable (9 rows)
[DEBUG] AV_Core :: Row 1 Processing: Validate_Column_GIWQuantity
[DEBUG] AV_Core :: Row 2 Processing: Validate_Column_GIWIncluded
...
[DEBUG] AV_Core :: Success: 9 | Skipped: 0
```

After Validation

Check target sheet:

1. **Error cells:** Red background (or configured error format)
 2. **Autocorrect cells:** Yellow background (or configured autocorrect format)
 3. **Valid cells:** Default format
 4. **Drop columns:** Validation messages with [[SYS_TAG ...]]
 5. **Key column:** Formatted with highest priority error
-

Expected Results

 **Successful Test**

Immediate Window:

TEST 3 - RUNNING FULL VALIDATION

Starting validation at hh:mm:ss

Watch ValidationTrackerForm for progress...

---[VALIDATION OUTPUT BELOW]---

[DEBUG messages from validation process]

---[VALIDATION OUTPUT ABOVE]---

Validation completed successfully

Elapsed time: X.XX seconds

TEST 3 COMPLETE

NEXT STEPS:

1. Check ValidationTrackerForm for completion status
 2. Review target sheet for validation results
 3. Verify error/autocorrect formatting applied
 4. Check drop columns for validation messages
-

ValidationTrackerForm:

- All 3 checkboxes checked ✓
- Log shows all steps completed
- No error messages

Target Sheet:

- Errors flagged and formatted
 - Auto-corrections applied
 - Messages in drop columns
 - Key column formatted
-

✖ Failed Test

If error occurs:

=====

✖ ERROR DURING VALIDATION

=====

Error #XXX: [Description]

Source: [Module]

Check ValidationTrackerForm for additional details

=====

Troubleshooting:

1. Note the error number and description
 2. Check which module failed (Source)
 3. Review ValidationTrackerForm log for context
 4. Share error details for diagnosis
-

Common Issues

Issue: "Compile Error"

Cause: Module not imported or version mismatch

Solution: Run `Test3_CheckModuleVersions` to verify

Issue: "Table not found"

Cause: Missing configuration table

Solution: Run `Test3_PreFlightCheck` to identify missing tables

Issue: "Object required" error

Cause: AV_Core not properly initialized

Solution: Verify AV_Core v2.1 COMPLETE is imported

Issue: No debug messages appear

Cause: GlobalDebugEnabled not set correctly

Solution:

1. Check GlobalDebugOptions table shows "ON"
2. Run `AV_Core.InitDebugFlags True`
3. Check `AV_Core.GlobalDebugEnabled` = True

Issue: Validation runs but no results

Cause: AutoValidate flags may be False

Solution: Check AutoValidationCommentPrefixMappingTable - AutoValidate column should be "TRUE"

Performance Expectations

Quick Validation (10 rows):

- Expected time: < 5 seconds
- Debug logging adds ~1-2 seconds

Full Validation (depends on row count):

- 100 rows: ~15-20 seconds
- 500 rows: ~60-90 seconds
- 1000 rows: ~2-3 minutes

With GlobalDebugEnabled = OFF:

- ~20-30% faster (no debug message overhead)
-

After Test 3

If Test Passes:

- ✓ Core validation workflow confirmed working
- ✓ Error detection functional
- ✓ Auto-correction functional
- ✓ Format application working
- ✓ Progress tracking working

Next: Test 4 - Trigger-based validation (single cell changes)

If Test Fails:

1. Share full error output
2. Share ValidationTrackerForm log
3. Share Immediate Window output

4. Share any specific error examples from data

Quick Reference

```
vba

' Check setup
Test3_PreFlightCheck

' Quick test (10 rows)
Test3_QuickValidation

' Full test (all rows)
Test3_RunValidation

' Check module versions
Test3_CheckModuleVersions

' Check debug status
Test2_ShowStatus
```

Ready when you are!