















**VII. Initial & Continuing Calibration (VOC, SVOC)**

GC/MS instrument performance checks (BFB / DFTPP) Acceptable Y or N  
 All compounds must have and RRF > 0.01, %RSD < 30, and %D < 25

VOC - Date of initial calibration: 3/3/15  
 VOC - Date(s) of continuing calibration: 3/6/15  
 Was the 12 hour criteria met? Y or N

SVOC- Date of initial calibration: \_\_\_\_\_  
 SVOC - Date(s) of continuing calibration: \_\_\_\_\_  
 Was the 12 hour criteria met? Y or N NA

**Deviations:**

Compound	Date	RRF	%RSD	%D	Samples Affected
1,4-Dioxane	3/3/15	0.0029			1, 2, 3 = R
Isobutyl Alcohol	3/6/15	0.0043			
1,4-Dioxane	3/6/15	0.0024			1, 2, 3 = R
Acetone	3/6/15			30.6	None
Bromomethane	3/6/15			46.5	UJ = 1, 2, 3
Chloroethane	↓			35.9	plus
Dichlorofluoromethane	↓			47.7	UJ = none

\* % Difference =  $((RF_{CCV} - RF_{ICAL AVG}) / RF_{ICAL AVG}) \times 100$ . In instances where the bias of the CCV impacts validation qualifiers, review the RF values or amount reported to confirm that the % Difference or % Drift are reported with the correct negative or positive value.

Trichlorofluoromethane 3/6/15 58.7 UJ = None

**Actions:**

1. If any compound has an initial or continuing RRF of < 0.01, qualify positive results as estimated (J)
2. If any compound has an initial or continuing RRF of < 0.01, qualify non-detects as unusable (R)
3. If any compound has a %RSD >30 or a %D >25, qualify positive results as estimated (J)
4. If any compound has a %RSD >40 or a %D >40, qualify non-detects as estimated (UJ)
5. If BFB or DFTPP mass assignment / ION abundance criteria are all associated data as unusable (R).
6. If samples were analyzed outside the 12 hour BFB or DFTPP performance check time period, qualify the affected sample data as estimated (J/UJ).
7. If separate calibration for water and soil were not performed, use professional judgement to evaluate the data. Data may be rejected (R).
8. If calibrations were not completed within the 12 hour criterion, qualify all associated data as estimated (J/UJ). If the 12 hour criterion was grossly exceeded, reject all associated data (R).

**Remarks:** See above







**X. Laboratory Control Sample Information**

General LCS Criteria:  
percent recovery (%R)

VOC	SVOC	Pest	PCB
80-120	60-120	50-130	50-130

Laboratory LCS Identifications: \_\_\_\_\_

**Deviations:**

Compound	Date	%R	Samples Affected/Qualifiers Applied
2 - Hexanes	3/6/15	73	1, 2, 3 = J/UJ
MIBK	↓	72	↓
Cis-1,3-Dichloropropane	↓	66	↓
Trans-1,3-Dichloropropane	↓	58	↓

**Actions:**

- Action should be based on both the number of compounds outside the criterion and the magnitude of the exceedance.
1. If the LCS recovery is below limits but > one-half the lower limit, qualify valves as estimated (J/UJ).
  2. If the LCS recovery is < one-half the lower limit, qualify all data for that analyte as unusable (R).
  3. If the LCS recovery is greater than the upper limit, qualify positive valves for that analyte as estimated (J).
  4. If more than half the compounds in this LCS are not within recovery criteria, then qualify associated detected compounds as estimated (J).
  5. Use professional judgement for qualification of data for compounds with no LCS information

Remarks: \_\_\_\_\_

See above

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# Hold Time Summary

Sample Number	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-41760-1	SW846 8260C	3/4/2015	3/6/2015		2
180-41760-2	SW846 8260C	3/4/2015	3/6/2015		2
180-41760-3	SW846 8260C	3/4/2015	3/6/2015		2

# Trip Blank Detections

Sample ID	Sample	Analyte	Result	Method	Units	Qual
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No detections  
P6  
3/17/15