

ER PROGRAM DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. E89-0724 Site Area 2 - 881 Hillside
 Laboratory 881 Rockwell No. of Samples/Matrix 25/Low Water
 SOW # 10/86 (Rev. 8/87) Reviewer Org. TechLaw
 Sample Numbers 9-74, 10-74, 56-86, 62-86, 64-86, 69-86, 70-86, 2-87, D2-87, 3-87, 4-87, 5-87, 5-87MS, 5-87MSD, 6-87, 8-87, 43-87, 45-87, 52-87, Trip Blank 4-17, Field Blank 4-17, Trip Blank 4-19, Field Blank 4-19, TB4-24, F Blank 4-24 (2nd Quarter 1989).

Data Assessment Summary

	VOA	Comments
1. Holding Times	<u>V</u>	
2. GC/MS Tune/Instr. Perf.	<u>V</u>	
3. Calibrations	<u>A</u>	<u>1 SPCC out; 6 TCLs out.</u>
4. Blanks	<u>A</u>	<u>Methylene chloride, chloroform, and toluene contamination. 1,2-dichloroethane-d4 out (5%). Toluene out (slightly on one sample and by 4% on a second sample).</u>
5. Surrogates	<u>A</u>	
6. Matrix Spike/Dup.	<u>A</u>	<u>Benzene out (5-87).</u>
7. Other QC	<u>V</u>	
8. Internal Standards	<u>V</u>	
9. Compound Identification	<u>A</u>	<u>See comments on next page. Blank contamination,</u>
10. System Performance	<u>A</u>	<u>1,2-dichloroethane-d4 and toluene surrogate out. 1 SPCC not met.</u>
11. Overall Assessment	<u>A</u>	<u>Data acceptable, with qualification.</u>

V = Data had no problems.
 A = Data acceptable but qualified due to problems.
 R = Data rejected, unusable.
 X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable qualified may be used, provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Table).

ADMIN RECORD
 "REVIEWED FOR CLASSIFICATION"
 By R. B. Hoffman
 Date 7-11-90

REVIEWED FOR CLASSIFICATION/UCNI
 By George H. Schlock
 Date 6/27/90

Action Items: 1) Vinyl acetate out of initial calibration limits (avg. RRF<0.05), positive values flagged as "J", non-detects "R"; 2) Chloromethane (SPCC) outside QC-criteria, values estimated (J-flag); 3) Numerous TCL compounds %D>25, values flagged as "J"; 4) %D at 60.8% for acetone, value is flagged as "R"; 5) Toluene, chloroform and methylene chloride in the blank, elevate all sample detection limits for these compounds to 5U; 6) 1,2-dichloroethane-d4 surrogate out (by 5%), toluene-d8 out (by 1% on one sample and 4% on another sample), all values estimated (J-flag) for respective samples; 7) Benzene is out on sample 5-87 MSD, flag all positive benzene values as "J".

Comments: BFB tune data for lab file I.D. APR11BFB % relative abundance for peaks 174-177 do not match the data sheet. The data for the following samples do not show quantitation nor identity for chloroform, toluene and methylene chloride. These compounds are suspect as being persistent from method blanks to samples, including those samples which were diluted (according to the RIC scan numbers and peak response). All of the samples listed here, including 9-74, 43-87 and 10-74 (these three samples had no apparent baseline in the RIC), have values flagged as "J".

<u>Sample Number</u>	<u>Suspect TCLs</u>
62-86	Chloroform
FB4-24	Chloroform
64-86	Chloroform
MB4-27	Chloroform
64-86RE	Chloroform
9-74DL	Chloroform, Toluene, Methylene Chloride
43-87DL	Chloroform, Toluene, Methylene Chloride
10-74DL	Chloroform, Toluene, Methylene Chloride

Note: Worksheets and data summary forms are attached.

Anthony W. Toth
Reviewer Signature

3-26-89
Date

TABLE #: 1-E89-0724 Page 1 of 4
SITE NAME: Area 2 - 881 Hillside ANALYTICAL RESULTS (ppb)
SAMPLING DATE: 04/12/89 & 04/17/89
CLP VOLATILE ORGANIC ANALYSIS: Low Water

Sample Location	RGNTB	56-86	70-86	5-87	5-87	TB	FB	2-87
Sample Number	MB4-19	E89-0724	E89-0724	E89-0724	E89-0724	TB4-17	FB4-17	E89-0724
Traffic Report Number	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724
Remarks	Lab Blank				Duplicate	Trip Blank	Field Blank	
Volatile Organic Compound	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)
Chloromethane	10	10 U U A	10 U U A	10 U U A	10 U U A			
Bromomethane	10	10 U U V	10 U U V	10 U U A	10 U U V			
Vinyl Chloride	10	10 U U V	10 U U V	10 U U A	10 U U V			
Chloroethane	10	10 U U V	10 U U V	10 U U A	10 U U V			
Methylene Chloride	5	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A
Acetone	10	10 U U A	10 U U V	10 U U A	10 U U V			
Carbon Disulfide	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
1,1-Dichloroethane	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
1,1-Dichloroethane	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
1,2-Dichloroethane (Total)	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Chloroform	5	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A
1,2-Dichloroethane	5	5 U U A	5 U U A	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
2-Butanone	10	10 U U V	10 U U V	10 U U A	10 U U V			
1,1,1-Trichloroethane	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Carbon Tetrachloride	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Vinyl Acetate	10	10 U U R	10 U U R	10 U U R	10 U U R			
Bromodichloromethane	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
1,2-Dichloropropane	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
cis-1,3 Dichloropropene	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Trichloroethene	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Dibromochloromethane	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
1,1,2-Trichloroethane	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Benzene	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Trans-1,3-Dichloropropene	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Bromoform	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
4-Methyl-2-pentanone	10	10 U U A	10 U U A	10 U U A	10 U U A			
2-Hexanone	10	10 U U V	10 U U V	10 U U A	10 U U V			
Tetrachloroethene	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
1,1,2,2-Tetrachloroethane	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Toluene	5	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A	5 U U A
Chlorobenzene	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Ethylbenzene	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Styrene	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Xylene (Total)	5	5 U U V	5 U U V	5 U U V	5 U U V	5 U U V	5 U U A	5 U U V
Total volatile organic concentration (ppb)	13	0	0	0	0	0	0	0

U Indicates the compound was not detected above the Required Quantization Limit.
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 * Value is rejected due to other contractual criteria examined during the quality control review (data validation).
 ** Value is rejected due to blank contamination identified during the quality control review (data validation).
 ppb Parts per billion.

Form V-1

Sample Location	D2-87	3-87	69-86	8-87	4-87	RGNTB	TB	FB
Sample Number	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724
Traffic Report Number	Field Dup.					Lab Blank	Trip Blank	Field Blank
Remarks								
Volatiles Organic Compound	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)
Chloromethane	10 UJ A	10 UJ A	10 UJ A	10 UJ A	10 UJ A		10 U V	10 U V
Bromomethane	10 U V	10 U V	10 U V	10 U V	10 U A		10 U V	10 U V
Vinyl Chloride	10 U V	10 U V	10 U V	10 U V	10 U A		10 U V	10 U V
Chloroethane	10 U V	10 U V	10 U V	10 U V	10 U A		10 U V	10 U V
Methylene Chloride	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 ppb	5 UJ A	5 UJ A
Acetone	10 UJ A	10 UJ A	10 UJ A	10 UJ A	10 UJ A		10 U V	10 U V
Carbon Disulfide	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
1,1-Dichloroethene	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
1,1-Dichloroethane	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
1,2-Dichloroethene (Total)	5 U V	5 UJ A	5 UJ A	5 U V	5 UJ A	3 ppb	5 UJ A	5 UJ A
Chloroform	5 UJ A	5 UJ A	5 UJ A	5 U V	5 UJ A		5 UJ A	5 UJ A
1,2-Dichloromethane	5 UJ A	5 UJ A	5 UJ A	5 U V	5 UJ A		5 UJ A	5 UJ A
2-Butanone	10 U V	10 U V	10 U V	10 U V	10 UJ A		10 UJ A	10 UJ A
1,1,1-Trichloroethane	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Carbon Tetrachloride	5 U V	5 U V	5 U V	5 U V	✓11 UJ A		5 UJ A	5 UJ A
Vinyl Acetate	10 U R	10 U R	10 U R	10 U R	10 U R		10 U R	10 U R
Bromodichloromethane	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
1,2-Dichloropropane	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
cis-1,3 Dichloropropene	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Trichloroethene	5 U V	5 U V	5 U V	5 U V	110 UJ A		5 U V	5 U V
Dibromochloromethane	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
1,1,2-Trichloroethane	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Benzene	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Trans-1,3-Dichloropropene	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Bromoform	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
4-Methyl-2-pentanone	10 UJ A	10 UJ A	10 UJ A	10 UJ A	10 UJ A		10 U V	10 U V
2-Hexanone	10 U V	10 U V	10 U V	10 U V	10 UJ A		10 U V	10 U V
Tetrachloroethene	5 U V	5 U V	5 U V	5 U V	6 UJ A		5 U V	5 U V
1,1,2,2-tetrachloroethane	5 U V	5 U V	5 U V	5 U V	5 UJ A	4 ppb	5 UJ A	5 UJ A
Toluene	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A		5 UJ A	5 UJ A
Chlorobenzene	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Ethylbenzene	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Styrene	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Xylene (Total)	5 U V	5 U V	5 U V	5 U V	5 UJ A		5 U V	5 U V
Total volatile organic concentration (ppb)	0	0	0	0	127	12	0	0

U Quantitation the compound was not detected above the Required Quantitation Limit.
 J Quantitation is approximate due to limitations identified during the quality control review (data validation).
 * Value is reflected due to other contractual criteria examined during the quality control review (data validation).
 ** Value is reflected due to blank contamination identified during the quality control review (data validation).
 ppb Parts per billion.
 DQ Data Qualifier
 V Valid
 A Acceptable with qualifications
 R Rejected, data unusable
 Form V-1

Sample Location	45-87	62-86	6-87	52-87	TB TB4-24	FB FB4-24	9-74	43-87
Sample Number	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724	E89-0724
Traffic Report Number					Trip Blank	Field Blank		
Remarks								
Volatiles Organic Compound	Detection Limit (ppb)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane (Total)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3 Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (Total)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total volatile organic concentration (ppb)	0	0	10	0	0	0	21678	31463

U Indicates the compound was not detected above the Required Quantization Limit.
 J Quantitation is approximate due to limitations identified during the quality control review (data validation).
 A Value is rejected due to other contractual criteria examined during the quality control review (data validation).
 R Value is rejected due to blank contamination identified during the quality control review (data validation).
 ppb Parts per billion.

DQ Data Qualifier
 V Valid
 A Acceptable with qualifications
 R Rejected, data unusable

Form V-1

Sample Location	10-74	64-86	RGNTB	64-86RE	9-74DL	43-87DL	10-74DL
Sample Number	E89-0724	E89-0724	MB4-27	E89-0724	E89-0724	E89-0724	E89-0724
Traffic Report Number			E89-0724	Reanalysis			
Remarks			Lab Blank				
Volatile Organic Compound	Detection Limit (ppb)	(DQ)	(DQ)	(DQ)	Dilution X100 (DQ)	Dilution X100 (DQ)	Dilution X50 (DQ)
Chloromethane	10 U	10 U V		10 U V	1000 U V	1000 U V	500 U V
Bromomethane	10 U	10 U V		10 U V	1000 U V	1000 U V	500 U V
Vinyl Chloride	10 U	10 U V		10 U V	1000 U V	1000 U V	500 U V
Chloroethane	10 U	10 U V		10 U V	1000 U V	1000 U V	500 U V
Methylene Chloride	5 J	5 UJ A	6 ppb	5 UJ A	500 UJ A	500 UJ A	250 UJ A
Acetone	10 U	10 U R		10 U R	1000 U V	1000 U V	500 U V
Carbon Disulfide	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
1,1-Dichloroethene	5 U	5 U V		5 U V	4500 V	6900 V	250 U V
1,1-Dichloroethane	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
1,2-Dichloroethene (Total)	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Chloroform	5 UJ A	5 UJ A		5 UJ A	500 UJ A	500 UJ A	250 UJ A
1,2-Dichloroethane	5 UJ A	5 UJ A		5 UJ A	500 UJ A	500 UJ A	250 UJ A
2-Butanone	10 U	10 U A		10 U V	1000 U V	1000 U V	500 U V
1,1,1-Trichloroethane	5 J	5 U V		5 U V	5500 V	12000 V	250 U V
Carbon Tetrachloride	2400 J	5 UJ A		5 UJ A	500 UJ A	500 UJ A	2100 J A
Vinyl Acetate	10 U	10 U R		10 U R	1000 U R	1000 U R	500 U R
Bromodichloromethane	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
1,2-Dichloropropane	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
cis-1,3-Dichloropropene	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Trichloroethene	1200 J	5 U A		5 U V	5600 V	9900 V	930 V
Dibromochloromethane	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
1,1,2-Trichloroethane	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Benzene	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Trans-1,3-Dichloropropene	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Bromoform	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
4-Methyl-2-pentanone	10 U	10 U V		10 U V	1000 U V	1000 U V	500 U V
2-Hexanone	10 U	10 U V		10 U V	1000 U V	1000 U V	500 U V
Tetrachloroethene	5 U	17 J A		5 U V	1600 V	4900 V	250 U V
1,1,2,2-Tetrachloroethane	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Toluene	5 U	5 U A	5 ppb	5 U A	500 UJ A	500 UJ A	250 UJ A
Chlorobenzene	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Ethylbenzene	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Styrene	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Xylene (Total)	5 U	5 U V		5 U V	500 U V	500 U V	250 U V
Total volatile organic concentration (ppb)	3625	8	11	0	17200	33700	3030

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 * Value is rejected due to other contractual criteria examined during the quality control review (data validation).
 ** Value is rejected due to blank contamination identified during the quality control review (data validation).
 ppb Parts per billion.

DQ Data Qualifier
 V Valid
 A Acceptable with qualifications
 R Rejected, data unusable

Form V-1

SOP WORK SHEETS FOR VOLATILES

E89-0724

Area 2 - 881 Hillside

2nd Quarter 1989

HOLDING TIMES

SAMPLE NO.	PRESERVED		CONC LEVEL / MATRIX	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	TIME ANALYZED	INSTRUMENT I.D.	CONTRACT HOLDING TIME MET		40 CFR 136 HOLDING TIME MET		ACTION
	YES	NO							YES	NO	YES	NO	
MB4-19	✓		Low H ₂ O	4-17-89 4-19-89	4-19-89	9:28	Extrel	✓		✓			
56-86				4-12-89	4-12-89		10:06						
70-86							10:49						
5-87							11:21						
5-87							11:53						
5-87MS					4-19-89		12:25						
5-87MSD					4-19-89		12:57	↓		↓			
TB4-17				4-17-89	4-17-89		13:35	✓		✓			
FB4-17				4-17-89	4-17-89		14:09						
2-87				4			14:41						
D2-87				4			15:13						
3-87				4			15:45						
69-86				4			16:17						
8-87				4			16:49						
4-87				4	↓	↓	17:20	↓		↓			
MB4-25				-	-	4-25-89	10:31	-		-			
TB4-19				4-19-89	4-19-89		11:20	✓		✓			
FB4-19							11:53						
45-87							12:25						
62-86							12:57						
6-87							13:29						
52-87				↓	↓		14:01						
TB4-24				4-24-89	4-24-89		15:42						
FB4-24							16:14						
9-74		↓					16:46	↓		↓			

* INCLUDE MATRIX SPIKES, BLANKS AND RE-RUNS HERE

SOP WORK SHEETS FOR VOLATILES

GC / MS TUNING AND PERFORMANCE										
SAMPLE NO. *	DATE TUNED	TIME TUNED	BFB ION ABUNDANCE CRITERIA MET		ION ABUNDANCE CRITERIA NOT MET	SKEWED OR DISTORTED SPECTRA		FREQUENCY OF TUNE > 12 HRS		ACTION
			YES	NO		YES	NO	YES	NO	
200	4-11-89	9:18	✓		All out.	✓	✓	✓		No action taken
150	↓	↓	↓			↓	↓	↓		
100	↓	↓	↓			↓	↓	↓		
50	↓	↓	↓			↓	↓	↓		
20	↓	↓	↓			↓	↓	↓		
MB4-19	4-19-89	8:08	✓			✓	✓			
56-86	↓	↓	↓			↓	↓	↓		
70-86	↓	↓	↓			↓	↓	↓		
5-87	↓	↓	↓			↓	↓	↓		
5-87	↓	↓	↓			↓	↓	↓		
5-87MS	↓	↓	↓			↓	↓	↓		
5-87MS0	↓	↓	↓			↓	↓	↓		
TB4-17	↓	↓	↓			↓	↓	↓		
FB4-17	↓	↓	↓			↓	↓	↓		
2-87	↓	↓	↓			↓	↓	↓		
D2-87	↓	↓	↓			↓	↓	↓		
3-87	↓	↓	↓			↓	↓	↓		
69-86	↓	↓	↓			↓	↓	↓		
8-87	↓	↓	↓			↓	↓	↓		
4-87	↓	↓	↓			↓	↓	↓		
MB4-25	4-25-89	9:09	✓			✓	✓			
TB4-19	↓	↓	↓			↓	↓	↓		
FB4-19	↓	↓	↓			↓	↓	↓		
45-87	↓	↓	↓			↓	↓	↓		
62-86	↓	↓	↓			↓	↓	↓		↓

* INCLUDE MATRIX SPIKES, BLANKS AND RE-RUNS HERE

SOP WORK SHEETS FOR VOLATILES

INITIAL CALIBRATION														
SAMPLE NO.	DATE	TIME	DESCRIBE CHROMATO. GRAPHIC PROBLEMS	SPCC CRITERIA MET		CCC CRITERIA MET		ALL COMPOUNDS RF > 0		ANY HSL COMPOUND RF < 0.05		ANY HSL COMPOUND RSD > 30%		ACTION
				YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	
MB4-19	4-19-89	9:28	None	✓	✓	✓	✓	✓	✓	✓	✓			<i>SPCC</i> <i>RF < 0.05 value for</i> <i>chromatogram stopped</i> <i>as is.</i> <i>Vinyl acetate</i> <i>RF < 0.05</i>
56-86		10:06												
70-86		10:49												
5-87		11:21												
5-87		11:53												
5-87MS		12:25												
5-87MSD		12:57												
TB4-17		13:35												
FB4-17		14:09												
2-87		14:41												
D2-87		15:13												
3-87		15:45												
69-86		16:17												
8-87		16:49												
4-87	↓	17:20		↓										
MB4-25	4-25-89	10:31												
TB4-19		11:20												
FB4-19		11:53												
45-87		12:25												
62-86		12:57												
6-87		13:29												
52-87		14:01												
TB4-24		15:42												
FB4-24		16:14												
9-74		16:46	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

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SOP WORK SHEETS FOR VOLATILES

CONTINUING CALIBRATION															
SAMPLE NO.	DATE	TIME	SPCC CRITERIA MET		CCC CRITERIA MET		ALL COMPOUNDS RF > 0		CALIBRATION WITHIN 12 HRS. OF SAMPLE ANALYSIS		ANY HSL COMPOUND RF < 0.05		ANY HSL COMPOUND %D > 25		ACTION
			YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	
MB4-19	4-19-89	9:28	✓	✓	✓		✓	✓	✓	✓					Vinyl acetate RRF < 0.05 all files, flag as "I" non-detects as "R" Chloromethane (SPCC) > 25%, flag as "I" and acetone, 1,2-DCA, Vinyl acetate, & MIBK as "I" %D > 25 ↓ %D > 25 1,2-DCA, 2-Butanone, CCl ₄ , vinyl acetate & acetone others as "I" (60%) "R"
56-86		10:06													
70-86		10:49													
5-87		11:21													
5-87		11:53													
5-87MS		12:25													
5-87MSD		12:57													
TB4-17		13:35													
FB4-17		14:09													
2-87		14:41													
D2-87		15:13													
3-87		15:45													
69-86		16:17													
8-87		16:49													
4-87	✓	17:20	✓	✓	✓	✓		✓	✓	✓					
MB4-25	4-25-89	10:31	✓	✓	✓	✓		✓	✓	✓					
TB4-19		11:20													
FB4-19		11:53													
45-87		12:25													
62-86		12:57													
6-87		13:29													
52-87		14:01													
TB4-24		15:42													
FB4-24		16:14													
9-74	✓	16:46	✓	✓	✓	✓		✓	✓	✓					

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SOP WORK SHEETS FOR VOLATILES

SURROGATES													
SAMPLE NO. *	BLANK SURROGATES CRITERIA MET		IF "NO" WERE ALL ASSOCIATED SAMPLES RE-PURGED		SAMPLE SURROGATE RECOVERIES MET CRITERIA		IF "NO" WAS SAMPLE RE-PURGED		RE-PURGED SAMPLE MET CRITERIA		SURROGATES OUTSIDE CRITERIA	ACTION	
	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO			
MB4-19	✓	N/A									none	—	
56-86				✓							↓	—	
70-86				✓								—	
5-87				✓								—	
5-87				✓								—	
5-87MS				✓								—	
5-87MSD				✓								—	
TB4-17	✓											—	
FB4-17		✓					✓	N/A	—	DCE ⁴⁴ Low by 5%	Values flagged as "I"		
2-87				✓							none	—	
D2-87				✓							↓	—	
3-87				✓								—	
69-86				✓								—	
8-87				✓								—	
4-87					✓		✓	N/A	—	Tol ⁴⁴ Slightly Low	Values flagged as "I"		
MB4-25	✓										none	—	
TB4-19	✓										↓	—	
FB4-19	✓											—	
45-87				✓								—	
62-86				✓								—	
6-87				✓								—	
52-87				✓								—	
TB4-24	✓											—	
FB4-24	✓											—	
9-74				✓								↓	—

* INCLUDE MATRIX SPIKES, BLANKS AND RE-RUNS HERE

SOP WORK SHEETS FOR VOLATILES

COMPOUND IDENTIFICATION									
SAMPLE NO	HSL COMPOUNDS WITHIN ± 0.06 RRT UNITS OF STANDARD		SAMPLE VS STANDARD SPECTRAL CRITERIA MET		ACTION ON HSL COMPOUNDS	NON-HSL COMPOUND IDENTIFICATION CRITERIA MET		ALL SPECTRA PRESENT	ACTION ON NON-HSL COMPOUNDS
	YES	NO	YES	NO		YES	NO		
MB4-19	✓		✓						
56-86									
70-86									
5-87									
5-87									
5-87ms									
5-87msD									
TB4-17									
FB4-17					<i>DCE - surrogate out of criteria</i>				
2-87									
D2-87									
3-87									
69-86									
8-87									
4-87					<i>Toluene d8 - surrogate out of criteria</i>				
MB4-25									
TB4-19									
FB4-19									
45-87									
62-86					<i>non-identified peak that looks like chloroform</i>				
6-87			✓						
52-87			✓		<i>poss. false positive for chloroform based on spectra review</i>				
TB4-24			✓						
FB4-24			✓		<i>non-identified peak that looks like chloroform</i>				
9-74	✓		✓		<i>chromatogram of scale i-hits are flagged on J.</i>				

