UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

RESUBMITTED DATA REVIEW REPORT

DATE:	October 11, 2012	**CASE#:**	42562
		SDG#:	F5WA4
TO:	B. Kendrick	**LAB:**	A4
	6SF-TR	**SITE:**	Manufacturing Specialties, Inc.
FROM:	L. Hoffman	**REF:**	TDF # 6-12-385B/6-12-359B
	ESAT		ESAT File # O-0889
	Page 1 of 1		ESAT Doc. No. B030-211-0110

EFFECTS OF RESUBMITTED INFORMATION ON THE ORIGINAL DATA:

Electronic and hardcopy laboratory responses to Regional request (received by ESAT on 07/24/12):

The laboratory resubmission is acceptable and does not impact the original data assessment. The electronic version of the resubmission was kept on file at the Region. The submitted explanation should be added to the CSF package as supplemental information.

672092

COVER SHEET
LABORATORY RESPONSE TO REGION'S REQUEST

Labcode: A4

Response Date: 7/18/12

Request Date: 7/21/12

EPA Contract No. EPW10018

Case No. 42562

SDG No. F5WA4 7/24/12

Hardcopy received by GSAT 7/24/12
0-0889
42562 12JN65

Sample Nos.

Other Information:

/QAO

07/20/2012

Signature/Title

Date

Green Sheet

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW10018	Case #: 42562	SDG #: F5WA4

RESPONSE TO REGION'S DATA VALIDATION

REGIONS REQUEST DATE: 07/18/2012 **LAB RESPONSE DATE: 07/21/2012**

Following are the responses to the data validation questions/issues submitted by the Region for the above referenced SDG.

FRACTION (S): VOA

FRACTION	RESPONSE
VOA	Please note the representation of the concentrations of the IS, DMCs, and targets on all our Quantitation reports is based on 5ml purge volume. Lab uses 5mL of the standards. Additional 5ml of reagent water is added to both the standards and samples as required by the SOW to make a 10ml purge volume. The SOW is unclear regarding the concentrations to be reported on the Quantitation reports. In section 7.2.2.6.2 of the SOW, there is reference to reporting at half the concentrations while in Section 9.3.3.3 it refers to a concentration of 50ug/L for the internal standards. For this reason we have been reporting the concentrations on the Quantitation reports based on 5mL. Please note that lab adds the correct absolute amount (in ug) of IS, DMC, and targets to the standards, blanks, and samples as per the SOW. A copy of the SOP section showing the spike amounts is attached. The representation of the concentrations on the Quantitation reports does not affect the reported results on Form 1 or the Response Factors (RRF) on Form 6. As requested, the following example calculations are presented to demonstrate that the RRF remains the same. <u>For calibration performed on 05/19/2012; EPA Sample ID 2E21002-CAL1; File ID=H3662.D</u> Area of IS "1,4_Difluorobenzene" = 114858 Area of target analyte "Dichlorodifluoromethane" = 1177 RRF = 1177/114858 x 50/5 = 0.10247 (if concentrations are based on 5mL) RRF = 1177/114858 x 25/2.5 = 0.10247 (if concentrations are based on 10mL)

Signature and Title

07/25/12
Date of Signature

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW10018

Lab Code: A4 Case No.: 42562 Mod. Ref No.: _____ SDG No.: F5WB4

Instrument ID: H-5975 Calibration Date(s): 05/19/2012 05/19/2012

Heated Purge: (Y/N) Y Calibration Time(s): 1140 1416

Purge Volume: 10.0 (mL)

GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

LAB FILE ID: _____ RRF2.5= H3662.D RRF005= H3661.D

RRF025= H3658.D RRF050= H3660.D RRF100= H3659.D

COMPOUND	RRF2.5	RRF005	RRF025	RRF050	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.102	0.166	0.257	0.233	0.259	0.203	33.4
Chloromethane	0.264	0.326	0.402	0.372	0.367	0.346	15.4
Vinyl chloride	0.146	0.150	0.225	0.237	0.263	0.204	26.0
Bromomethane	0.077	0.110	0.122	0.117	0.110	0.107	16.5
Chloroethane	0.069	0.078	0.107	0.091	0.055	0.080	24.8
Trichlorofluoromethane	0.371	0.390	0.409	0.345	0.329	0.369	8.8
1,1-Dichloroethene	0.392	0.443	0.430	0.398	0.370	0.407	7.3
1,1,2-Trichloro-1,2,2-trifluoroethane	0.253	0.221	0.288	0.340	0.335	0.287	18.0
Acetone	0.117	0.094	0.095	0.099	0.094	0.100	9.8
Carbon disulfide	0.920	1.079	1.411	1.373	1.409	1.238	18.2
Methyl acetate	0.261	0.269	0.230	0.256	0.252	0.254	5.7
Methylene chloride	0.513	0.472	0.431	0.407	0.401	0.445	10.7
trans-1,2-Dichloroethene	0.489	0.564	0.620	0.573	0.571	0.563	8.3
Methyl tert-butyl ether	0.526	0.431	0.353	0.380	0.321	0.402	19.9
1,1-Dichloroethane	1.049	1.116	1.208	1.165	1.169	1.141	5.3
cis-1,2-Dichloroethene	0.553	0.598	0.622	0.613	0.601	0.597	4.5
2-Butanone	0.163	0.144	0.138	0.149	0.141	0.147	6.6
Bromochloromethane	0.247	0.251	0.237	0.239	0.237	0.242	2.6
Chloroform	1.063	1.099	1.145	1.069	1.053	1.086	3.4
1,1,1-Trichloroethane	0.787	0.867	0.995	1.009	0.990	0.929	10.6
Cyclohexane	0.963	1.150	1.347	1.372	1.367	1.240	14.5
Carbon tetrachloride	0.490	0.609	0.730	0.752	0.810	0.678	18.9
Benzene	3.035	3.355	3.237	3.112	2.983	3.144	4.8
1,2-Dichloroethane	0.836	0.834	0.749	0.713	0.736	0.774	7.4
1,4-Dioxane	0.007	0.005	0.004	0.007	0.007	0.006	18.7
Trichloroethene	0.701	0.791	0.824	0.784	0.811	0.782	6.1
Methylcyclohexane	0.741	1.113	1.304	1.272	1.182	1.122	20.2

Report 1,4-Dioxane for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\data\H3662.D
Acq On : 19 May 2012 14:16
Sample : 2E21002-CAL1
Misc : VSTD2.55D 5GM SOIL
DataAcq Meth:VOAC.M

Vial: 71
Operator: AC
Inst : H-5975
Multiplr: 1.00

05/22/12

ORIGINAL LOCATED IN
CASE: 42562 SDG: F5WA4

05/22/12

Quant Time: May 19 15:00:20 2012
Quant Results File: SOSH3658.RES
Integration File: RTEINT.P
Quant Method : C:\msdchem\1\methods\SOSH3658.M
Quant Title : CLP SOM01.2-LOW/MED VOA-SOIL- 5 GM
QLast Update : Tue Apr 17 20:10:17 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Difluorobenzene	5.371	114	114858	50.0000 ug/L	0.00
30) Chlorobenzene-d5	9.259	117	87084	50.0000 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.818	152	33218	50.0000 ug/L	# 0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	1.487	65	1541	4.83 ug/L	0.00
Spiked Amount 50.000	Range 68 - 122		Recovery	= 9.66%#	
7) Chloroethane-d5	1.812	69	1260	7.93 ug/L	0.00
Spiked Amount 50.000	Range 61 - 130		Recovery	= 15.86%#	
10) 1,1-Dichloroethene-d2	2.445	63	13801	6.52 ug/L	0.00
Spiked Amount 50.000	Range 45 - 132		Recovery	= 13.04%#	
20) 2-Butanone-d5	3.989	46	5174	8.22 ug/L	0.00
Spiked Amount 100.000	Range 20 - 182		Recovery	= 8.22%#	
24) Chloroform-d	4.326	84	15346	6.51 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery	= 13.02%#	
26) 1,2-Dichloroethane-d4	4.863	65	8511	6.53 ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery	= 13.06%#	
28) 1,4-Dioxane-d8	6.040	96	2153	148.23 ug/L	0.00
Spiked Amount 1000.000	Range 50 - 150		Recovery	= 14.82%#	
34) Benzene-d6	4.886	84	31279	5.91 ug/L	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery	= 11.82%#	
37) 1,2-Dichloropropane-d6	5.812	67	8830	5.83 ug/L	0.00
Spiked Amount 50.000	Range 74 - 124		Recovery	= 11.66%#	
43) Toluene-d8	7.201	98	24605	5.42 ug/L	0.00
Spiked Amount 50.000	Range 78 - 121		Recovery	= 10.84%#	
45) trans-1,3-Dichloroprop...	7.567	79	5861	4.85 ug/L	0.00
Spiked Amount 50.000	Range 72 - 130		Recovery	= 9.70%#	
49) 2-Hexanone-d5	8.172	63	2662	8.92 ug/L	0.00
Spiked Amount 100.000	Range 17 - 184		Recovery	= 8.92%#	
59) 1,1,2,2-Tetrachloroeth...	11.390	84	4997	6.37 ug/L	0.00
Spiked Amount 50.000	Range 56 - 161		Recovery	= 12.74%#	
65) 1,2-Dichlorobenzene-d4	13.226	152	7430	6.14 ug/L	0.00
Spiked Amount 50.000	Range 70 - 131		Recovery	= 12.28%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.256	85	1177	2.2358 ug/L	83
3) Chloromethane	1.391	50	3827	2.8614 ug/L	83
5) Vinyl Chloride	1.494	62	1673m	3.6891 ug/L	
6) Bromomethane	1.751	94	881	3.1448 ug/L #	42
8) Chloroethane	1.834	64	797	3.9638 ug/L	87
9) Trichlorofluoromethane	2.037	101	4261	5.7035 ug/L	89
11) 1,1-Dichloroethene	2.452	96	4507	4.7743 ug/L #	71
12) 1,1,2-Trichloro-1,2,2-...	2.477	101	2901	4.4274 ug/L	87
13) Acetone	2.503	43	2686	10.3007 ug/L	69
14) Carbon Disulfide	2.625	76	10567	3.3403 ug/L	100
15) Methyl Acetate	2.783	43	2999	4.7657 ug/L	91
16) Methylene Chloride	2.857	84	5889	5.2405 ug/L	97
17) trans-1,2-Dichloroethene	3.101	96	5620	4.0295 ug/L	100
18) Methyl tert-Butyl Ether	3.108	73	6045	3.9353 ug/L	90
19) 1,1-Dichloroethane	3.471	63	12050	4.3286 ug/L	100
21) cis-1,2-Dichloroethene	4.030	96	6349	4.3307 ug/L	96
22) 2-Butanone	4.047	43	3733	9.5168 ug/L	84
23) Bromochloromethane	4.265	128	2833	4.9685 ug/L	96
25) Chloroform	4.352	83	12204	4.9383 ug/L	98
27) 1,2-Dichloroethane	4.944	62	9605	5.4541 ug/L	85
29) 1,4-Dioxane	6.104	88	1516	84.9390 ug/L #	68

AC S.P.

Table 10. Calibration Standards. Prepare fresh before use in 5ml Reagent Water.

LEVEL	ISTD (25ug/ml)	N. K. DMC (25ug/ml)	K. DMC (50ug/ml)	N.K. STD (25ug/ml)	K. STD (50ug/ml)	GASES (25ug/ml)	1,4-Dioxane (500ug/ml)	1,4-Dioxane-d8 (500ug/ml)
VSTD005	10ul	1.0ul	1.0ul	1.0ul	1.0ul	1.0ul	1.0ul	1.0ul
VSTD010	10ul	2.0ul	2.0ul	2.0ul	2.0ul	2.0ul	2.0ul	2.0ul
VSTD050 (CC)	10ul	10.0ul	10.0ul	10.0ul	10.0ul	10.0ul	10.0ul	10.0ul
VSTD100	10ul	20.0ul	20.0ul	20.0ul	20.0ul	20.0ul	20.0ul	20.0ul
VSTD200	10ul	40.0ul	40.0ul	40.0ul	40.0ul	40.0ul	40.0ul	40.0ul