National Functional Guidelines Report # 16

16:17 Fri, Oct 31, 2008

Lab MITKEM (Mitkem Corporation) **SDG** Y4FY2 **Case** 37947 **Contract** EPW05030 **Region** 9 **DDTID** 65618 **SOW** SOM01.2

Initial Calibration Data Summary

A - RRF & CF Multi-Point Report

VOA_Low_Med 1A Initial_Calibration InstrumentID=V5 Column=DB-624 HeatedPurge=Yes V5K2021.D

		RRF-005 VSTD0055K V5K2024.D 10/21/2008 00:20:00	RRF-010 VSTD0105K V5K2023.D 10/20/2008 23:52:00	RRF-050 VSTD0505K V5K2022.D 10/20/2008 23:23:00	RRF-100 VSTD1005K V5K2026.D 10/21/2008 01:17:00	RRF-200 VSTD2005K V5K2025.D 10/21/2008 00:48:00	Lab Reported		NFG Calculated	
Compound	**Peak ID**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**Avg RRF/CF**	**%RSD**	**Avg RRF/CF**	**%RSD**
Vinyl chloride	62	0.503	0.459	0.474	0.481	0.399	0.463	8.4	0.463	8.4
Benzene	78	1.841	1.722	1.868	1.712	1.572	1.743	6.8	1.743	6.8
Dichlorodifluoromethane	85	0.556	0.542	0.606	0.601	0.514	0.564	7.0	0.564	7.0
2-Butanone	43	0.227	0.232	0.297	0.260	0.235	0.250	11.6	0.250	11.6
Chloromethane	50	0.647	0.601	0.659	0.635	0.544	0.617	7.5	0.617	7.5
Carbon disulfide	76	1.350	1.267	1.406	1.365	1.180	1.314	6.9	1.314	6.9
1,1-Dichloroethene	96	0.458	0.373	0.412	0.400	0.344	0.397	10.8	0.397	10.8
Chlorobenzene	112	1.143	1.062	1.153	1.092	1.011	1.092	5.4	1.092	5.4
Carbon tetrachloride	117	0.590	0.558	0.564	0.509	0.479	0.540	8.3	0.540	8.3
Chloroform	83	0.904	0.780	0.875	0.827	0.723	0.822	8.8	0.822	8.8
Bromomethane	94	0.467	0.406	0.407	0.387	0.316	0.397	13.7	0.397	13.7
1,2-Dichloroethane	62	0.682	0.643	0.702	0.664	0.598	0.658	6.0	0.658	6.0
Chloroethane	64	0.299	0.285	0.306	0.284	0.237	0.282	9.6	0.282	9.6
Trichlorofluoromethane	101	0.775	0.675	0.750	0.702	0.615	0.703	9.0	0.703	9.0
1,4-Dichlorobenzene	146	1.790	1.659	1.728	1.668	1.499	1.669	6.5	1.669	6.5
cis-1,2-Dichloroethene	96	0.414	0.394	0.467	0.472	0.415	0.432	8.1	0.432	8.1
Trichloroethene	95	0.433	0.394	0.435	0.417	0.388	0.414	5.3	0.414	5.3
trans-1,2-Dichloroethene	96	0.452	0.414	0.453	0.434	0.378	0.426	7.3	0.426	7.3
1,1,2-Trichloro-1,2,2-trifluoroethane	101	0.479	0.413	0.467	0.418	0.374	0.430	9.9	0.430	9.9
Tetrachloroethene	164	0.280	0.294	0.314	0.298	0.288	0.295	4.2	0.295	4.2
1,2-Dichloropropane	63	0.570	0.555	0.551	0.492	0.465	0.526	8.6	0.526	8.6
Acetone	43	0.199	0.180	0.168	0.135	0.134	0.163	17.4	0.163	17.4
Ethylbenzene	91	1.468	1.513	1.923	1.859	1.706	1.694	11.9	1.694	11.9
4-Methyl-2-pentanone	43	0.444	0.476	0.626	0.561	0.539	0.529	13.5	0.529	13.5

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Initial Calibration Data Summary

A - RRF & CF Multi-Point Report

VOA_Low_Med 1A Initial_Calibration InstrumentID=V5 Column=DB-624 HeatedPurge=Yes V5K2021.D

		RRF-005 VSTD0055K V5K2024.D 10/21/2008 00:20:00	RRF-010 VSTD0105K V5K2023.D 10/20/2008 23:52:00	RRF-050 VSTD0505K V5K2022.D 10/20/2008 23:23:00	RRF-100 VSTD1005K V5K2026.D 10/21/2008 01:17:00	RRF-200 VSTD2005K V5K2025.D 10/21/2008 00:48:00	Lab Reported		NFG Calculated	
Compound	**Peak ID**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**Avg RRF/CF**	**%RSD**	**Avg RRF/CF**	**%RSD**
Methyl acetate	43	0.481	0.379	0.386	0.330	0.283	0.372	19.9	0.372	19.9
Methylene chloride	84	0.589	0.506	0.503	0.476	0.411	0.497	12.9	0.497	12.9
Styrene	104	0.748	0.818	1.155	1.113	1.070	0.981	18.8	0.981	18.8
Methyl tert-butyl ether	73	1.140	1.042	1.199	1.175	1.020	1.115	7.2	1.115	7.2
Toluene	91	1.560	1.498	1.765	1.659	1.556	1.608	6.6	1.608	6.6
1,1-Dichloroethane	63	0.880	0.786	0.877	0.830	0.740	0.822	7.3	0.822	7.3
1,1,1-Trichloroethane	97	0.779	0.670	0.682	0.627	0.561	0.664	12.0	0.664	12.0
o-Xylene	106	0.485	0.535	0.720	0.680	0.656	0.615	16.3	0.615	16.3
Bromochloromethane	128	0.214	0.192	0.214	0.208	0.186	0.203	6.4	0.203	6.4
m,p-Xylene	106	0.515	0.532	0.736	0.692	0.661	0.627	15.7	0.627	15.7
1,2-Dichlorobenzene	146	1.349	1.404	1.631	1.606	1.389	1.476	8.9	1.476	8.9
Cyclohexane	56	0.588	0.612	0.690	0.648	0.633	0.634	6.1	0.634	6.1
1,2,4-Trichlorobenzene	180	0.793	0.870	1.196	1.308	1.124	1.058	20.7	1.058	20.7
1,4-Dioxane	88	0.004	0.005	0.005	0.007	0.007	0.005	22.2	0.005	22.2

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Initial Calibration Data Summary

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VOA_Low_Med 1B Initial_Calibration InstrumentID=V5 Column=DB-624 HeatedPurge=Yes V5K2021.D

		RRF-005 VSTD0055K V5K2024.D 10/21/2008 00:20:00	RRF-010 VSTD0105K V5K2023.D 10/20/2008 23:52:00	RRF-050 VSTD0505K V5K2022.D 10/20/2008 23:23:00	RRF-100 VSTD1005K V5K2026.D 10/21/2008 01:17:00	RRF-200 VSTD2005K V5K2025.D 10/21/2008 00:48:00	Lab Reported		NFG Calculated	
Compound	**Peak ID**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**Avg RRF/CF**	**%RSD**	**Avg RRF/CF**	**%RSD**
Tetrachloroethene	164	0.280	0.294	0.314	0.298	0.288	0.295	4.2	0.295	4.2
Trichloroethene	95	0.433	0.394	0.435	0.417	0.388	0.414	5.3	0.414	5.3
Methylcyclohexane	83	0.625	0.552	0.652	0.619	0.602	0.610	6.1	0.610	6.1
1,2-Dichloropropane	63	0.570	0.555	0.551	0.492	0.465	0.526	8.6	0.526	8.6
Bromodichloromethane	83	0.781	0.723	0.753	0.707	0.666	0.726	6.1	0.726	6.1
cis-1,3-Dichloropropene	75	0.749	0.789	0.856	0.836	0.777	0.801	5.5	0.801	5.5
4-Methyl-2-pentanone	43	0.444	0.476	0.626	0.561	0.539	0.529	13.5	0.529	13.5
Toluene	91	1.560	1.498	1.765	1.659	1.556	1.608	6.6	1.608	6.6
trans-1,3-Dichloropropene	75	0.584	0.639	0.818	0.744	0.707	0.698	13.0	0.698	13.0
1,1,2-Trichloroethane	97	0.442	0.418	0.432	0.389	0.370	0.410	7.4	0.410	7.4
2-Hexanone	43	0.277	0.320	0.459	0.417	0.407	0.376	19.9	0.376	19.9
Dibromochloromethane	129	0.455	0.427	0.463	0.446	0.426	0.444	3.7	0.444	3.7
1,2-Dibromoethane	107	0.430	0.410	0.452	0.420	0.397	0.421	4.9	0.421	4.9
Chlorobenzene	112	1.143	1.062	1.153	1.092	1.011	1.092	5.4	1.092	5.4
Ethylbenzene	91	1.468	1.513	1.923	1.859	1.706	1.694	11.9	1.694	11.9
o-Xylene	106	0.485	0.535	0.720	0.680	0.656	0.615	16.3	0.615	16.3
m,p-Xylene	106	0.515	0.532	0.736	0.692	0.661	0.627	15.7	0.627	15.7
Styrene	104	0.748	0.818	1.155	1.113	1.070	0.981	18.8	0.981	18.8
Bromoform	173	0.528	0.492	0.622	0.660	0.585	0.577	11.8	0.577	11.8
Isopropylbenzene	105	1.123	1.233	1.765	1.640	1.581	1.469	18.8	1.469	18.8
1,1,2,2-Tetrachloroethane	83	0.594	0.525	0.592	0.501	0.494	0.541	9.0	0.541	9.0
1,3-Dichlorobenzene	146	1.127	1.082	1.504	1.559	1.398	1.334	16.3	1.334	16.3
1,4-Dichlorobenzene	146	1.790	1.659	1.728	1.668	1.499	1.669	6.5	1.669	6.5
1,2-Dichlorobenzene	146	1.349	1.404	1.631	1.606	1.389	1.476	8.9	1.476	8.9

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A - RRF & CF Multi-Point Report

VOA_Low_Med 1B Initial_Calibration InstrumentID=V5 Column=DB-624 HeatedPurge=Yes V5K2021.D

		RRF-005 VSTD0055K V5K2024.D 10/21/2008 00:20:00	RRF-010 VSTD0105K V5K2023.D 10/20/2008 23:52:00	RRF-050 VSTD0505K V5K2022.D 10/20/2008 23:23:00	RRF-100 VSTD1005K V5K2026.D 10/21/2008 01:17:00	RRF-200 VSTD2005K V5K2025.D 10/21/2008 00:48:00	Lab Reported		NFG Calculated	
Compound	**Peak ID**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**Avg RRF/CF**	**%RSD**	**Avg RRF/CF**	**%RSD**
1,2-Dibromo-3-chloropropane	75	0.155	0.170	0.173	0.172	0.152	0.164	6.1	0.164	6.1
1,2,4-Trichlorobenzene	180	0.793	0.870	1.196	1.308	1.124	1.058	20.7	1.058	20.7
1,2,3-Trichlorobenzene	180	0.952	0.952	1.138	1.274	1.067	1.077	12.6	1.077	12.6
Hexane	57	0.792	0.642	0.777	0.819	0.755	0.757	9.0	0.757	9.0
Isopropanol	45	0.047	0.037	0.023	0.025	0.017	0.030	39.9	0.030	39.9

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Initial Calibration Data Summary

A - RRF & CF Multi-Point Report

VOA_Low_Med 6C Initial_Calibration InstrumentID=V5 Column=DB-624 HeatedPurge=Yes V5K2021.D

		RRF-005 VSTD0055K V5K2024.D 10/21/2008 00:20:00	RRF-010 VSTD0105K V5K2023.D 10/20/2008 23:52:00	RRF-050 VSTD0505K V5K2022.D 10/20/2008 23:23:00	RRF-100 VSTD1005K V5K2026.D 10/21/2008 01:17:00	RRF-200 VSTD2005K V5K2025.D 10/21/2008 00:48:00	Lab Reported		NFG Calculated	
Compound	**Peak ID**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**RRF/CF**	**Avg RRF/CF**	**%RSD**	**Avg RRF/CF**	**%RSD**
Vinyl chloride-d3	65	0.523	0.557	0.485	0.462	0.463	0.498	8.3	0.498	8.3
Chloroethane-d5	69	0.438	0.450	0.404	0.367	0.355	0.403	10.4	0.403	10.4
1,1-Dichloroethene-d2	100	0.157	0.152	0.138	0.142	0.138	0.145	5.8	0.145	5.8
2-Butanone-d5	46	0.240	0.227	0.305	0.281	0.266	0.264	11.9	0.264	11.9
Chloroform-d	84	0.928	0.887	0.844	0.754	0.767	0.836	9.0	0.836	9.0
1,2-Dichloroethane-d4	65	0.570	0.551	0.515	0.458	0.460	0.511	10.0	0.511	10.0
Benzene-d6	84	1.734	1.767	1.661	1.450	1.546	1.631	8.1	1.631	8.1
1,2-Dichloropropane-d6	67	0.570	0.543	0.501	0.442	0.475	0.506	10.1	0.506	10.1
Toluene-d8	98	1.163	1.259	1.281	1.158	1.279	1.228	5.1	1.228	5.1
trans-1,3-Dichloropropene-d4	79	0.472	0.514	0.576	0.535	0.559	0.531	7.6	0.531	7.6
2-Hexanone-d5	63	0.115	0.162	0.255	0.230	0.230	0.198	29.3	0.198	29.3
1,4-Dioxane-d8	96	0.002	0.003	0.006	0.006	0.006	0.005	37.7	0.005	37.7
1,1,2,2-Tetrachloroethane-d2	84	0.572	0.554	0.567	0.475	0.495	0.533	8.4	0.533	8.4
1,2-Dichlorobenzene-d4	152	0.805	0.841	0.916	0.853	0.869	0.857	4.7	0.857	4.7