National Functional Guidelines Report # 16

4:05 Sat, Nov 8, 2008

Lab MITKEM (Mitkem Corporation) **SDG** Y4G13 **Case** 37947 **Contract** EPW05030 **Region** 9 **DDTID** 65850 **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 V5K2511.D

		RRF-005 VSTD005O5 V5K2516.D 11/01/2008 19:20:00	RRF-010 VSTD010O5 V5K2515.D 11/01/2008 18:51:00	RRF-050 VSTD050O5 V5K2514.D 11/01/2008 18:23:00	RRF-100 VSTD100O5 V5K2513.D 11/01/2008 17:54:00	RRF-200 VSTD200O5 V5K2512.D 11/01/2008 17:26:00	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	0.667	0.670	0.629	0.617	0.607	0.638	4.5	0.638	4.5
Benzene	78	2.188	2.209	2.128	2.010	1.860	2.079	7.0	2.079	7.0
Dichlorodifluoromethane	85	0.833	0.878	0.798	0.775	0.745	0.806	6.4	0.806	6.4
2-Butanone	43	0.286	0.348	0.340	0.333	0.332	0.328	7.3	0.328	7.3
Chloromethane	50	0.922	0.909	0.839	0.831	0.809	0.862	5.8	0.862	5.8
Carbon disulfide	76	2.017	1.913	1.763	1.700	1.727	1.824	7.4	1.824	7.4
1,1-Dichloroethene	96	0.439	0.540	0.486	0.476	0.483	0.485	7.5	0.485	7.5
Chlorobenzene	112	1.217	1.163	1.157	1.129	1.108	1.155	3.6	1.155	3.6
Carbon tetrachloride	117	0.677	0.693	0.652	0.635	0.604	0.652	5.4	0.652	5.4
Chloroform	83	1.053	1.082	0.941	0.908	0.893	0.976	8.8	0.976	8.8
Bromomethane	94	0.547	0.560	0.452	0.434	0.415	0.482	13.9	0.482	13.9
1,2-Dichloroethane	62	0.792	0.846	0.776	0.777	0.800	0.798	3.6	0.798	3.6
Chloroethane	64	0.448	0.422	0.368	0.338	0.337	0.383	13.1	0.383	13.1
Trichlorofluoromethane	101	1.007	0.925	0.876	0.854	0.896	0.912	6.5	0.912	6.5
1,4-Dichlorobenzene	146	2.037	1.822	1.739	1.677	1.590	1.773	9.6	1.773	9.6
cis-1,2-Dichloroethene	96	0.487	0.495	0.491	0.465	0.447	0.477	4.3	0.477	4.3
Trichloroethene	95	0.497	0.523	0.498	0.495	0.469	0.496	3.9	0.496	3.9
trans-1,2-Dichloroethene	96	0.507	0.497	0.473	0.453	0.430	0.472	6.7	0.472	6.7
1,1,2-Trichloro-1,2,2-trifluoroethane	101	0.587	0.609	0.530	0.517	0.503	0.549	8.4	0.549	8.4
Tetrachloroethene	164	0.301	0.351	0.363	0.353	0.351	0.344	7.1	0.344	7.1
1,2-Dichloropropane	63	0.664	0.608	0.627	0.602	0.565	0.613	5.9	0.613	5.9
Acetone	43	0.414	0.275	0.266	0.251	0.257	0.293	23.3	0.293	23.3
Ethylbenzene	91	1.714	1.940	2.222	2.232	2.158	2.053	10.9	2.053	10.9
4-Methyl-2-pentanone	43	0.428	0.613	0.747	0.733	0.702	0.645	20.4	0.645	20.4

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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 V5K2511.D

		RRF-005 VSTD005O5 V5K2516.D 11/01/2008 19:20:00	RRF-010 VSTD010O5 V5K2515.D 11/01/2008 18:51:00	RRF-050 VSTD050O5 V5K2514.D 11/01/2008 18:23:00	RRF-100 VSTD100O5 V5K2513.D 11/01/2008 17:54:00	RRF-200 VSTD200O5 V5K2512.D 11/01/2008 17:26:00	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	0.636	0.589	0.477	0.440	0.442	0.517	17.5	0.517	17.5
Methylene chloride	84	0.721	0.668	0.566	0.533	0.524	0.602	14.5	0.602	14.5
Styrene	104	0.755	0.908	1.166	1.156	1.160	1.029	18.3	1.029	18.3
Methyl tert-butyl ether	73	1.329	1.395	1.319	1.255	1.202	1.300	5.7	1.300	5.7
Toluene	91	1.816	1.878	1.944	1.877	1.811	1.865	2.9	1.865	2.9
1,1-Dichloroethane	63	1.042	1.081	0.973	0.945	0.909	0.990	7.1	0.990	7.1
1,1,1-Trichloroethane	97	0.919	0.913	0.831	0.789	0.752	0.841	8.8	0.841	8.8
o-Xylene	106	0.563	0.649	0.726	0.718	0.720	0.675	10.4	0.675	10.4
Bromochloromethane	128	0.217	0.220	0.204	0.197	0.184	0.204	7.2	0.204	7.2
m,p-Xylene	106	0.549	0.636	0.748	0.764	0.755	0.690	13.7	0.690	13.7
1,2-Dichlorobenzene	146	1.529	1.604	1.600	1.532	1.456	1.544	3.9	1.544	3.9
Cyclohexane	56	0.819	0.904	0.940	0.923	0.870	0.891	5.4	0.891	5.4
1,2,4-Trichlorobenzene	180	0.847	1.087	1.187	1.201	1.161	1.097	13.3	1.097	13.3
1,4-Dioxane	88	0.004	0.005	0.007	0.007	0.008	0.006	23.8	0.006	23.8

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Initial Calibration Data Summary

A - RRF & CF Multi-Point Report

VOA_Low_Med 1B Initial_Calibration InstrumentID=V5 Column=DB-624 HeatedPurge=Yes V5K2511.D

		RRF-005 VSTD005O5 V5K2516.D 11/01/2008 19:20:00	RRF-010 VSTD010O5 V5K2515.D 11/01/2008 18:51:00	RRF-050 VSTD050O5 V5K2514.D 11/01/2008 18:23:00	RRF-100 VSTD100O5 V5K2513.D 11/01/2008 17:54:00	RRF-200 VSTD200O5 V5K2512.D 11/01/2008 17:26:00	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	0.301	0.351	0.363	0.353	0.351	0.344	7.1	0.344	7.1
Trichloroethene	95	0.497	0.523	0.498	0.495	0.469	0.496	3.9	0.496	3.9
Methylcyclohexane	83	0.774	0.820	0.843	0.827	0.785	0.810	3.6	0.810	3.6
1,2-Dichloropropane	63	0.664	0.608	0.627	0.602	0.565	0.613	5.9	0.613	5.9
Bromodichloromethane	83	0.875	0.940	0.876	0.837	0.820	0.869	5.3	0.869	5.3
cis-1,3-Dichloropropene	75	0.889	0.960	1.006	1.011	0.982	0.970	5.1	0.970	5.1
4-Methyl-2-pentanone	43	0.428	0.613	0.747	0.733	0.702	0.645	20.4	0.645	20.4
Toluene	91	1.816	1.878	1.944	1.877	1.811	1.865	2.9	1.865	2.9
trans-1,3-Dichloropropene	75	0.747	0.863	0.950	0.924	0.908	0.878	9.1	0.878	9.1
1,1,2-Trichloroethane	97	0.469	0.443	0.430	0.425	0.402	0.434	5.6	0.434	5.6
2-Hexanone	43	0.253	0.431	0.559	0.569	0.562	0.475	28.8	0.475	28.8
Dibromochloromethane	129	0.468	0.482	0.474	0.474	0.460	0.472	1.7	0.472	1.7
1,2-Dibromoethane	107	0.423	0.419	0.455	0.443	0.424	0.433	3.5	0.433	3.5
Chlorobenzene	112	1.217	1.163	1.157	1.129	1.108	1.155	3.6	1.155	3.6
Ethylbenzene	91	1.714	1.940	2.222	2.232	2.158	2.053	10.9	2.053	10.9
o-Xylene	106	0.563	0.649	0.726	0.718	0.720	0.675	10.4	0.675	10.4
m,p-Xylene	106	0.549	0.636	0.748	0.764	0.755	0.690	13.7	0.690	13.7
Styrene	104	0.755	0.908	1.166	1.156	1.160	1.029	18.3	1.029	18.3
Bromoform	173	0.576	0.538	0.624	0.605	0.576	0.584	5.6	0.584	5.6
Isopropylbenzene	105	1.313	1.582	1.906	1.883	1.879	1.713	15.2	1.713	15.2
1,1,2,2-Tetrachloroethane	83	0.651	0.650	0.622	0.600	0.589	0.622	4.5	0.622	4.5
1,3-Dichlorobenzene	146	1.207	1.366	1.567	1.559	1.489	1.438	10.6	1.438	10.6
1,4-Dichlorobenzene	146	2.037	1.822	1.739	1.677	1.590	1.773	9.6	1.773	9.6
1,2-Dichlorobenzene	146	1.529	1.604	1.600	1.532	1.456	1.544	3.9	1.544	3.9

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Initial Calibration Data Summary

A - RRF & CF Multi-Point Report

VOA_Low_Med 1B Initial_Calibration InstrumentID=V5 Column=DB-624 HeatedPurge=Yes V5K2511.D

		RRF-005 VSTD005O5 V5K2516.D 11/01/2008 19:20:00	RRF-010 VSTD010O5 V5K2515.D 11/01/2008 18:51:00	RRF-050 VSTD050O5 V5K2514.D 11/01/2008 18:23:00	RRF-100 VSTD100O5 V5K2513.D 11/01/2008 17:54:00	RRF-200 VSTD200O5 V5K2512.D 11/01/2008 17:26:00	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	0.181	0.226	0.203	0.201	0.188	0.200	8.7	0.200	8.7
1,2,4-Trichlorobenzene	180	0.847	1.087	1.187	1.201	1.161	1.097	13.3	1.097	13.3
1,2,3-Trichlorobenzene	180	0.938	1.181	1.175	1.144	1.079	1.103	9.2	1.103	9.2
Hexane	57	0.933	0.987	0.957	1.002	1.001	0.976	3.1	0.976	3.1
Isopropanol	45	0.045	0.063	0.040	0.033	0.033	0.043	28.6	0.043	28.6

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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 V5K2511.D

		RRF-005 VSTD005O5 V5K2516.D 11/01/2008 19:20:00	RRF-010 VSTD010O5 V5K2515.D 11/01/2008 18:51:00	RRF-050 VSTD050O5 V5K2514.D 11/01/2008 18:23:00	RRF-100 VSTD100O5 V5K2513.D 11/01/2008 17:54:00	RRF-200 VSTD200O5 V5K2512.D 11/01/2008 17:26:00	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	0.794	0.699	0.679	0.704	0.699	0.715	6.3	0.715	6.3
Chloroethane-d5	69	0.558	0.437	0.512	0.510	0.499	0.503	8.6	0.503	8.6
1,1-Dichloroethene-d2	100	0.189	0.191	0.179	0.187	0.183	0.186	2.6	0.186	2.6
2-Butanone-d5	46	0.280	0.342	0.358	0.347	0.338	0.333	9.2	0.333	9.2
Chloroform-d	84	1.076	1.011	0.952	0.952	0.933	0.985	6.0	0.985	6.0
1,2-Dichloroethane-d4	65	0.775	0.667	0.583	0.621	0.604	0.650	11.8	0.650	11.8
Benzene-d6	84	2.124	1.820	1.949	1.977	1.800	1.934	6.8	1.934	6.8
1,2-Dichloropropane-d6	67	0.688	0.608	0.595	0.588	0.552	0.606	8.3	0.606	8.3
Toluene-d8	98	1.462	1.308	1.439	1.504	1.410	1.425	5.2	1.425	5.2
trans-1,3-Dichloropropene-d4	79	0.607	0.589	0.675	0.689	0.680	0.648	7.2	0.648	7.2
2-Hexanone-d5	63	0.170	0.173	0.264	0.281	0.281	0.234	24.5	0.234	24.5
1,4-Dioxane-d8	96	0.004	0.002	0.005	0.006	0.006	0.005	31.3	0.005	31.3
1,1,2,2-Tetrachloroethane-d2	84	0.591	0.607	0.592	0.565	0.557	0.582	3.6	0.582	3.6
1,2-Dichlorobenzene-d4	152	0.836	0.824	0.913	0.914	0.880	0.873	4.8	0.873	4.8