284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TULL02

Lab Code: CHEM **Case No.:** P5112 **SAS No.:** P5112 **SDG NO.:** P5112

Instrument ID: ECD_P **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 02:45 10:39

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP068361.D RT 750 = PP068362.D

RT 500 = PP068363.D RT 250 = PP068364.D RT 050 = PP068365.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.92	5.93	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1016-2	(2)	5.94	5.95	5.94	5.95	5.94	5.95	5.85	6.05
Aroclor-1016-3	(3)	6.01	6.01	6.01	6.01	6.01	6.01	5.91	6.11
Aroclor-1016-4	(4)	6.11	6.11	6.11	6.11	6.10	6.11	6.01	6.21
Aroclor-1016-5	(5)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1260-1	(1)	7.52	7.53	7.52	7.52	7.52	7.52	7.42	7.62
Aroclor-1260-2	(2)	7.78	7.78	7.78	7.78	7.78	7.78	7.68	7.88
Aroclor-1260-3	(3)	8.14	8.14	8.14	8.14	8.14	8.14	8.04	8.24
Aroclor-1260-4	(4)	8.38	8.38	8.38	8.38	8.38	8.38	8.28	8.48
Aroclor-1260-5	(5)	8.72	8.72	8.71	8.72	8.71	8.72	8.62	8.82
Decachlorobiphenyl		10.67	10.68	10.67	10.68	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1242-1	(1)	5.93	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1242-2	(2)	5.95	5.94	5.95	5.94	5.95	5.95	5.85	6.05
Aroclor-1242-3	(3)	6.01	6.01	6.01	6.01	6.01	6.01	5.91	6.11
Aroclor-1242-4	(4)	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Aroclor-1242-5	(5)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.68	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1248-1	(1)	5.92	5.93	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1248-2	(2)	6.19	6.20	6.19	6.19	6.20	6.20	6.10	6.30
Aroclor-1248-3	(3)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1248-4	(4)	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90
Aroclor-1248-5	(5)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Decachlorobiphenyl		10.67	10.68	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1254-1	(1)	6.77	6.78	6.78	6.77	6.77	6.78	6.68	6.88
Aroclor-1254-2	(2)	6.99	7.00	7.00	6.99	6.99	6.99	6.89	7.09
Aroclor-1254-3	(3)	7.36	7.36	7.36	7.36	7.36	7.36	7.26	7.46
Aroclor-1254-4	(4)	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
Aroclor-1254-5	(5)	8.06	8.06	8.06	8.06	8.06	8.06	7.96	8.16
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1268-1	(1)	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
Aroclor-1268-2	(2)	9.15	9.15	9.15	9.15	9.15	9.15	9.05	9.25
Aroclor-1268-3	(3)	9.40	9.40	9.40	9.40	9.40	9.40	9.30	9.50
Aroclor-1268-4	(4)	9.84	9.85	9.85	9.85	9.84	9.85	9.75	9.95
Aroclor-1268-5	(5)	10.29	10.30	10.30	10.30	10.30	10.30	10.20	10.40

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Decachlorobiphenyl	10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86

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Contract: TULL02

Lab Code: CHEM **Case No.:** P5112 **SAS No.:** P5112 **SDG NO.:** P5112

Instrument ID: ECD_P **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 02:45 10:39

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP068361.D RT 750 = PP068362.D

RT 500 = PP068363.D RT 250 = PP068364.D RT 050 = PP068365.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1016-2	(2)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1016-3	(3)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1016-4	(4)	5.40	5.40	5.40	5.40	5.40	5.40	5.30	5.50
Aroclor-1016-5	(5)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1260-1	(1)	6.66	6.66	6.66	6.66	6.66	6.66	6.56	6.76
Aroclor-1260-2	(2)	6.85	6.85	6.85	6.85	6.85	6.85	6.75	6.95
Aroclor-1260-3	(3)	7.01	7.01	7.01	7.00	7.00	7.01	6.91	7.11
Aroclor-1260-4	(4)	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58
Aroclor-1260-5	(5)	7.72	7.72	7.72	7.72	7.72	7.72	7.62	7.82
Decachlorobiphenyl		9.21	9.21	9.21	9.21	9.21	9.21	9.11	9.31
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1242-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1242-2	(2)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1242-3	(3)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1242-4	(4)	5.44	5.44	5.44	5.44	5.44	5.44	5.34	5.54
Aroclor-1242-5	(5)	5.97	5.97	5.97	5.97	5.97	5.97	5.87	6.07
Decachlorobiphenyl		9.21	9.21	9.21	9.21	9.21	9.21	9.11	9.31
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1248-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-2	(2)	5.40	5.40	5.40	5.40	5.40	5.40	5.30	5.50
Aroclor-1248-3	(3)	5.44	5.44	5.44	5.44	5.44	5.44	5.34	5.54
Aroclor-1248-4	(4)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1248-5	(5)	6.02	6.01	6.01	6.01	6.01	6.01	5.91	6.11
Decachlorobiphenyl		9.21	9.21	9.21	9.21	9.21	9.21	9.11	9.31
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1254-1	(1)	5.97	5.97	5.97	5.97	5.97	5.97	5.87	6.07
Aroclor-1254-2	(2)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1254-3	(3)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1254-4	(4)	6.76	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Aroclor-1254-5	(5)	7.18	7.18	7.18	7.18	7.18	7.18	7.08	7.28
Decachlorobiphenyl		9.21	9.21	9.21	9.21	9.21	9.21	9.11	9.31
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1268-1	(1)	8.00	8.00	8.00	8.00	8.00	8.00	7.90	8.10
Aroclor-1268-2	(2)	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
Aroclor-1268-3	(3)	8.29	8.29	8.29	8.28	8.29	8.29	8.19	8.39
Aroclor-1268-4	(4)	8.59	8.59	8.59	8.59	8.59	8.59	8.49	8.69
Aroclor-1268-5	(5)	8.92	8.92	8.92	8.92	8.92	8.92	8.82	9.02

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Decachlorobiphenyl	9.21	9.21	9.21	9.21	9.21	9.21	9.11	9.31
Tetrachloro-m-xylene	4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15