

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** Q1328 **SAS No.:** Q1328 **SDG NO.:** Q1328

**Instrument ID:** ECD\_Q **Calibration Date(s):** 02/03/2025 02/04/2025  
**Calibration Times:** 15:58 02:03

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

| LAB FILE ID:   |     |             |             |             |            |            |             |                      |  |
|----------------|-----|-------------|-------------|-------------|------------|------------|-------------|----------------------|--|
| CF 100 =       |     | PQ069913.D  |             | CF 200 =    |            | PQ069914.D |             |                      |  |
| CF 400 =       |     | PQ069915.D  |             | CF 800 =    |            | PQ069916.D |             | CF 1600 = PQ069917.D |  |
| COMPOUND       |     | CF 100      | CF 200      | CF 400      | CF 800     | CF 1600    | CF          | % RSD                |  |
| Aroclor-1016-1 | (1) | 271606500   | 270574675   | 250632798   | 229054065  | 210272130  | 246428034   | 11                   |  |
| Aroclor-1016-2 | (2) | 445353490   | 428091890   | 404332660   | 378159068  | 349428676  | 401073157   | 10                   |  |
| Aroclor-1016-3 | (3) | 281323080   | 274224900   | 259652368   | 239036999  | 217207499  | 254288969   | 10                   |  |
| Aroclor-1016-4 | (4) | 221911780   | 220286450   | 212666318   | 194439145  | 178450494  | 205550837   | 9                    |  |
| Aroclor-1016-5 | (5) | 221770000   | 218790645   | 206712253   | 190832095  | 172575796  | 202136158   | 10                   |  |
| Aroclor-1260-1 | (1) | 378485350   | 368369415   | 351032245   | 328891693  | 304858047  | 346327350   | 9                    |  |
| Aroclor-1260-2 | (2) | 429835990   | 421242425   | 396753190   | 373288734  | 350103074  | 394244683   | 8                    |  |
| Aroclor-1260-3 | (3) | 332077640   | 329263555   | 310718330   | 294656145  | 273184074  | 307979949   | 8                    |  |
| Aroclor-1260-4 | (4) | 358687440   | 357759785   | 338447503   | 320689974  | 298164513  | 334749843   | 8                    |  |
| Aroclor-1260-5 | (5) | 662330050   | 651616050   | 626943405   | 603974645  | 576470143  | 624266859   | 6                    |  |
| DCB            |     | 3935674500  | 4026976800  | 3884631500  | 3676564163 | 3441750475 | 3793119488  | 6                    |  |
| TCX            |     | 9692263800  | 9598458500  | 9034124400  | 8518403400 | 7923077488 | 8953265518  | 8                    |  |
| Aroclor-1221-1 | (1) | 120357340   | 115123185   | 109486753   | 102752645  | 91177253   | 107779435   | 11                   |  |
| Aroclor-1221-2 | (2) | 81436930    | 77715400    | 76358748    | 70678803   | 62775816   | 73793139    | 10                   |  |
| Aroclor-1221-3 | (3) | 275291120   | 258922015   | 242493113   | 221341225  | 194783908  | 238566276   | 13                   |  |
| DCB            |     | 4271627400  | 4241929500  | 4047549050  | 3831349388 | 3536440056 | 3985779079  | 8                    |  |
| TCX            |     | 10747466800 | 10512067500 | 9786213550  | 9251789825 | 8457182588 | 9750944053  | 10                   |  |
| Aroclor-1232-1 | (1) | 223886600   | 210893905   | 199706615   | 180764096  | 159989011  | 195048046   | 13                   |  |
| Aroclor-1232-2 | (2) | 127404120   | 117549900   | 112347003   | 102533443  | 91743905   | 110315674   | 12                   |  |
| Aroclor-1232-3 | (3) | 235322160   | 220173130   | 209726840   | 190405881  | 171962859  | 205518174   | 12                   |  |
| Aroclor-1232-4 | (4) | 116516750   | 110103145   | 107223218   | 98421726   | 88426858   | 104138339   | 11                   |  |
| Aroclor-1232-5 | (5) | 76934550    | 73743115    | 70689930    | 66041594   | 59281373   | 69338112    | 10                   |  |
| DCB            |     | 4588572700  | 4348804700  | 4201619550  | 3935964500 | 3641771525 | 4143346595  | 9                    |  |
| TCX            |     | 11357615600 | 10604738200 | 10041512100 | 9356802525 | 8573252463 | 9986784178  | 11                   |  |
| Aroclor-1242-1 | (1) | 281788320   | 259251810   | 239431840   | 213517851  | 193893189  | 237576602   | 15                   |  |
| Aroclor-1242-2 | (2) | 443744510   | 410831605   | 374175203   | 345649493  | 311037552  | 377087672   | 14                   |  |
| Aroclor-1242-3 | (3) | 279499460   | 259992390   | 242147373   | 220409761  | 196750843  | 239759965   | 14                   |  |
| Aroclor-1242-4 | (4) | 228407870   | 212710650   | 197325860   | 179744138  | 161464304  | 195930564   | 13                   |  |
| Aroclor-1242-5 | (5) | 224604220   | 214314895   | 200111220   | 185755153  | 167427650  | 198442628   | 11                   |  |
| DCB            |     | 4783067700  | 4529712000  | 4280179375  | 3967556575 | 3658873144 | 4243877759  | 10                   |  |
| TCX            |     | 11789614600 | 10841787000 | 10136050700 | 9367204600 | 8565823413 | 10140096063 | 12                   |  |
| Aroclor-1248-1 | (1) | 214104730   | 197158195   | 184204550   | 169648699  | 151730565  | 183369348   | 13                   |  |
| Aroclor-1248-2 | (2) | 300047930   | 278282450   | 260968005   | 237106253  | 211462498  | 257573427   | 13                   |  |
| Aroclor-1248-3 | (3) | 359992980   | 333179110   | 315175805   | 288580408  | 257565924  | 310898845   | 13                   |  |

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|                |     |             |             |             |            |            |             |    |
|----------------|-----|-------------|-------------|-------------|------------|------------|-------------|----|
| Aroclor-1248-4 | (4) | 375411920   | 348140575   | 333707073   | 307003143  | 277280423  | 328308627   | 12 |
| Aroclor-1248-5 | (5) | 387160620   | 354245755   | 339963790   | 316399248  | 284610944  | 336476071   | 12 |
| DCB            |     | 4671630300  | 4504056500  | 4381826575  | 4114943563 | 3755340013 | 4285559390  | 8  |
| TCX            |     | 11583912800 | 10554028800 | 9993402750  | 9364285075 | 8548315975 | 10008789080 | 12 |
| Aroclor-1254-1 | (1) | 422540750   | 392394180   | 351729993   | 322234801  | 288970331  | 355574011   | 15 |
| Aroclor-1254-2 | (2) | 630368670   | 581844760   | 534919293   | 492278184  | 442476539  | 536377489   | 14 |
| Aroclor-1254-3 | (3) | 640615320   | 597397575   | 555018803   | 516873444  | 470555361  | 556092101   | 12 |
| Aroclor-1254-4 | (4) | 420917460   | 391617505   | 371817358   | 343431669  | 314523358  | 368461470   | 11 |
| Aroclor-1254-5 | (5) | 476300940   | 438297430   | 418461580   | 390684681  | 358692458  | 416487418   | 11 |
| DCB            |     | 4782321300  | 4652703600  | 4364459050  | 4102458525 | 3769070019 | 4334202499  | 9  |
| TCX            |     | 11643817800 | 11026044300 | 10102224800 | 9399455700 | 8559802450 | 10146269010 | 12 |
| Aroclor-1262-1 | (1) | 557574890   | 526814040   | 486428013   | 449980880  | 397548298  | 483669224   | 13 |
| Aroclor-1262-2 | (2) | 934094430   | 868002510   | 812066305   | 757579824  | 686048074  | 811558229   | 12 |
| Aroclor-1262-3 | (3) | 619556490   | 580716500   | 541201400   | 506076613  | 447155775  | 538941356   | 12 |
| Aroclor-1262-4 | (4) | 493806610   | 478944940   | 445376533   | 411927875  | 364049556  | 438821103   | 12 |
| Aroclor-1262-5 | (5) | 272713560   | 263643040   | 246755825   | 227217515  | 202346678  | 242535324   | 12 |
| DCB            |     | 4998017300  | 4822797750  | 4468379825  | 4115803925 | 3655623706 | 4412124501  | 12 |
| TCX            |     | 11921797400 | 10988266600 | 10267157750 | 9415594400 | 8286565413 | 10175876313 | 14 |
| Aroclor-1268-1 | (1) | 1056872070  | 988425465   | 938703683   | 909566640  | 847404415  | 948194455   | 8  |
| Aroclor-1268-2 | (2) | 967374730   | 917037465   | 871293770   | 846094394  | 780769493  | 876513970   | 8  |
| Aroclor-1268-3 | (3) | 804046260   | 770344475   | 727130220   | 707026886  | 649000940  | 731509756   | 8  |
| Aroclor-1268-4 | (4) | 291074930   | 287785880   | 271371003   | 262309058  | 243930617  | 271294297   | 7  |
| Aroclor-1268-5 | (5) | 2091559810  | 2027891200  | 1943146315  | 1924082309 | 1822025666 | 1961741060  | 5  |
| DCB            |     | 9230131500  | 8736662800  | 8280507125  | 8027720125 | 7387881819 | 8332580674  | 8  |
| TCX            |     | 12028360800 | 11069494800 | 10301168950 | 9701736675 | 8799829275 | 10380118100 | 12 |

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**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** Q1328 **SAS No.:** Q1328 **SDG NO.:** Q1328

**Instrument ID:** ECD\_Q **Calibration Date(s):** 02/03/2025 02/04/2025  
**Calibration Times:** 15:58 02:03

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

| LAB FILE ID:               |     | CF 100 = <u>PQ069913.D</u> |            | CF 200 = <u>PQ069914.D</u>  |            |            |            |
|----------------------------|-----|----------------------------|------------|-----------------------------|------------|------------|------------|
| CF 400 = <u>PQ069915.D</u> |     | CF 800 = <u>PQ069916.D</u> |            | CF 1600 = <u>PQ069917.D</u> |            |            |            |
| COMPOUND                   |     | CF 100                     | CF 200     | CF 400                      | CF 800     | CF 1600    | % RSD      |
| Aroclor-1016-1             | (1) | 275848450                  | 263461965  | 243029115                   | 220990239  | 203977004  | 241461355  |
| Aroclor-1016-2             | (2) | 420109660                  | 408407930  | 373324795                   | 342779555  | 316839068  | 372292202  |
| Aroclor-1016-3             | (3) | 234221810                  | 232745975  | 212560053                   | 190408315  | 175776796  | 209142590  |
| Aroclor-1016-4             | (4) | 210122960                  | 206401140  | 187295700                   | 165225503  | 149357068  | 183680474  |
| Aroclor-1016-5             | (5) | 249163480                  | 246650640  | 223918675                   | 200384399  | 183093465  | 220642132  |
| Aroclor-1260-1             | (1) | 458307270                  | 437660055  | 397420748                   | 370795139  | 340730693  | 400982781  |
| Aroclor-1260-2             | (2) | 546790120                  | 521264080  | 457218380                   | 444659135  | 408748455  | 475736034  |
| Aroclor-1260-3             | (3) | 502174420                  | 488012390  | 429374853                   | 419851139  | 390243082  | 445931177  |
| Aroclor-1260-4             | (4) | 448917530                  | 428451690  | 355295355                   | 370716938  | 342804802  | 389237263  |
| Aroclor-1260-5             | (5) | 934199170                  | 927799445  | 819865373                   | 843023554  | 801312220  | 865239952  |
| DCB                        |     | 6845395700                 | 6451894950 | 6098647650                  | 5646021625 | 5322417575 | 6072875500 |
| TCX                        |     | 8744316000                 | 8572605600 | 7941633700                  | 7456542175 | 6937003013 | 7930420098 |
| Aroclor-1221-1             | (1) | 115144670                  | 107188360  | 99499128                    | 91672313   | 80585744   | 98818043   |
| Aroclor-1221-2             | (2) | 81254040                   | 74362395   | 69359793                    | 64903543   | 57111072   | 69398168   |
| Aroclor-1221-3             | (3) | 257823470                  | 243396765  | 217633305                   | 199650709  | 175700125  | 218840875  |
| DCB                        |     | 7081041600                 | 6658453400 | 6178367100                  | 5724556313 | 5306410788 | 6189765840 |
| TCX                        |     | 8994255600                 | 8399025900 | 7828325900                  | 7441291000 | 6855524288 | 7903684538 |
| Aroclor-1232-1             | (1) | 209812650                  | 192130300  | 178229880                   | 159860691  | 141198966  | 176246497  |
| Aroclor-1232-2             | (2) | 209780190                  | 190161070  | 180283185                   | 165332225  | 149191008  | 178949536  |
| Aroclor-1232-3             | (3) | 114421180                  | 102736625  | 97350420                    | 90660713   | 81969719   | 97427731   |
| Aroclor-1232-4             | (4) | 98019210                   | 87851025   | 85314573                    | 77461866   | 68948058   | 83518946   |
| Aroclor-1232-5             | (5) | 109859080                  | 108200635  | 98742078                    | 86557126   | 77716306   | 96215045   |
| DCB                        |     | 7304534100                 | 6671154200 | 6230286175                  | 5853291113 | 5403644406 | 6292581999 |
| TCX                        |     | 8922724200                 | 8509143300 | 8092274250                  | 7508287925 | 6953911163 | 7997268168 |
| Aroclor-1242-1             | (1) | 250672580                  | 226309420  | 210486520                   | 189298521  | 171148976  | 209583204  |
| Aroclor-1242-2             | (2) | 370129300                  | 337306345  | 320973175                   | 289380631  | 263106124  | 316179115  |
| Aroclor-1242-3             | (3) | 205287310                  | 186708965  | 182639888                   | 163584071  | 145888873  | 176821821  |
| Aroclor-1242-4             | (4) | 195027450                  | 175914975  | 172119230                   | 151773628  | 134694595  | 165905976  |
| Aroclor-1242-5             | (5) | 249206340                  | 226893740  | 212341808                   | 190861456  | 171090341  | 210078737  |
| DCB                        |     | 7392644600                 | 6883841450 | 6291655450                  | 5822918175 | 5303917281 | 6338995391 |
| TCX                        |     | 9212542400                 | 8571664200 | 8155300800                  | 7578705625 | 6968935175 | 8097429640 |
| Aroclor-1248-1             | (1) | 190259400                  | 172561020  | 162617360                   | 146742595  | 132159572  | 160867989  |
| Aroclor-1248-2             | (2) | 299003820                  | 272102825  | 248878498                   | 223976981  | 200812406  | 248954906  |
| Aroclor-1248-3             | (3) | 288400130                  | 263725375  | 241425898                   | 217340756  | 195638537  | 241306139  |

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|                |     |             |             |             |             |             |             |    |
|----------------|-----|-------------|-------------|-------------|-------------|-------------|-------------|----|
| Aroclor-1248-4 | (4) | 353040240   | 320211260   | 293835993   | 266717244   | 241458606   | 295052669   | 15 |
| Aroclor-1248-5 | (5) | 327263430   | 302861580   | 281266013   | 258993413   | 236896208   | 281456129   | 13 |
| DCB            |     | 7325201000  | 6806101450  | 6328512475  | 5882708238  | 5417432669  | 6351991166  | 12 |
| TCX            |     | 9267147200  | 8783367500  | 8349827200  | 7854971000  | 7195550400  | 8290172660  | 10 |
| Aroclor-1254-1 | (1) | 519930480   | 477247980   | 436280708   | 400834495   | 361257768   | 439110286   | 14 |
| Aroclor-1254-2 | (2) | 463905310   | 422999845   | 384172090   | 351589334   | 315632413   | 387659798   | 15 |
| Aroclor-1254-3 | (3) | 712493690   | 666626225   | 612915985   | 570781528   | 518235735   | 616210633   | 12 |
| Aroclor-1254-4 | (4) | 420029200   | 396008920   | 363831958   | 333420034   | 306116818   | 363881386   | 13 |
| Aroclor-1254-5 | (5) | 604757170   | 595803385   | 558359280   | 512781030   | 468763614   | 548092896   | 10 |
| DCB            |     | 7432634700  | 6867593550  | 6345222250  | 5912414563  | 5419766956  | 6395526404  | 12 |
| TCX            |     | 9525746000  | 8920523300  | 8377977450  | 7802441175  | 7139897125  | 8353317010  | 11 |
| Aroclor-1262-1 | (1) | 679946180   | 629878255   | 574894583   | 531367716   | 467288220   | 576674991   | 14 |
| Aroclor-1262-2 | (2) | 637758230   | 585050855   | 534532778   | 494994758   | 432805409   | 537028406   | 15 |
| Aroclor-1262-3 | (3) | 500714840   | 448398065   | 419677513   | 385082589   | 344085451   | 419591691   | 14 |
| Aroclor-1262-4 | (4) | 896290280   | 809722540   | 768810088   | 710633769   | 640255504   | 765142436   | 13 |
| Aroclor-1262-5 | (5) | 405490090   | 370606075   | 349415165   | 320806109   | 289135784   | 347090645   | 13 |
| DCB            |     | 7519248000  | 6873158600  | 6348940675  | 5845342963  | 5183113188  | 6353960685  | 14 |
| TCX            |     | 9618072800  | 8775553900  | 8214928500  | 7727812325  | 6837944513  | 8234862408  | 13 |
| Aroclor-1268-1 | (1) | 1348335260  | 1251189895  | 1163929743  | 1123159351  | 1050453926  | 1187413635  | 10 |
| Aroclor-1268-2 | (2) | 1252257320  | 1167107490  | 1086762805  | 1051722841  | 985200383   | 1108610168  | 9  |
| Aroclor-1268-3 | (3) | 1072687470  | 1005208775  | 937040393   | 904444531   | 846378193   | 953151872   | 9  |
| Aroclor-1268-4 | (4) | 441932740   | 420113890   | 392711890   | 375513606   | 351031315   | 396260688   | 9  |
| Aroclor-1268-5 | (5) | 2901428160  | 2777167580  | 2684508195  | 2647977666  | 2553134355  | 2712843191  | 5  |
| DCB            |     | 13364183400 | 12391419200 | 11666797400 | 11173710163 | 10502521744 | 11819726381 | 9  |
| TCX            |     | 9518634000  | 8775167900  | 8155503000  | 7822424000  | 7130588475  | 8280463475  | 11 |