

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** Q2164 **SAS No.:** Q2164 **SDG NO.:** Q2164

**Instrument ID:** ECD\_Q **Calibration Date(s):** 05/07/2025 05/07/2025  
**Calibration Times:** 09:43 19:11

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

| LAB FILE ID:   |     | CF 100 =   | PQ070242.D | CF 200 =   | PQ070243.D |            |            |       |
|----------------|-----|------------|------------|------------|------------|------------|------------|-------|
| CF 400 =       |     | PQ070244.D | CF 800 =   | PQ070245.D | CF 1600 =  | PQ070246.D |            |       |
| COMPOUND       |     | CF 100     | CF 200     | CF 400     | CF 800     | CF 1600    | CF         | % RSD |
| Aroclor-1016-1 | (1) | 233015370  | 220397795  | 214180038  | 189088208  | 175433111  | 206422904  | 11    |
| Aroclor-1016-2 | (2) | 364540520  | 362666360  | 336149488  | 305173454  | 282137756  | 330133515  | 11    |
| Aroclor-1016-3 | (3) | 233018220  | 225553025  | 218923910  | 195214869  | 178330416  | 210208088  | 11    |
| Aroclor-1016-4 | (4) | 186656270  | 182090545  | 176142055  | 158227779  | 145700131  | 169763356  | 10    |
| Aroclor-1016-5 | (5) | 186760080  | 182052060  | 171005195  | 154148766  | 140055445  | 166804309  | 12    |
| Aroclor-1260-1 | (1) | 332063440  | 325012145  | 301237673  | 274078584  | 254660699  | 297410508  | 11    |
| Aroclor-1260-2 | (2) | 384973090  | 366230840  | 348580003  | 318441988  | 295876732  | 342820530  | 10    |
| Aroclor-1260-3 | (3) | 294010690  | 284701450  | 271336648  | 251289038  | 233491319  | 266965829  | 9     |
| Aroclor-1260-4 | (4) | 320512260  | 312668635  | 300384018  | 276379666  | 260020803  | 293993076  | 9     |
| Aroclor-1260-5 | (5) | 595911100  | 587299955  | 563368948  | 525160190  | 500731419  | 554494322  | 7     |
| DCB            |     | 3772528500 | 3751568650 | 3570012725 | 3290283775 | 3094246475 | 3495728025 | 8     |
| TCX            |     | 8176820000 | 7965417300 | 7473641700 | 6901804100 | 6499644513 | 7403465523 | 10    |
| Aroclor-1221-1 | (1) | 89855690   | 92769615   | 84977398   | 78766251   | 70822261   | 83438243   | 11    |
| Aroclor-1221-2 | (2) | 64650690   | 64087775   | 59280100   | 55425569   | 49159506   | 58520728   | 11    |
| Aroclor-1221-3 | (3) | 216299970  | 206807215  | 190754223  | 173299245  | 154046508  | 188241432  | 13    |
| DCB            |     | 3933101300 | 3730416400 | 3456729675 | 3249883513 | 3054709838 | 3484968145 | 10    |
| TCX            |     | 8645414400 | 8063976900 | 7626742100 | 7137698525 | 6644824325 | 7623731250 | 10    |
| Aroclor-1232-1 | (1) | 180224830  | 162069915  | 137813698  | 131592378  | 122639355  | 146868035  | 16    |
| Aroclor-1232-2 | (2) | 96291690   | 86812065   | 75705598   | 71484511   | 67472875   | 79553348   | 15    |
| Aroclor-1232-3 | (3) | 176946150  | 161195645  | 138197718  | 135093133  | 127672546  | 147821038  | 14    |
| Aroclor-1232-4 | (4) | 90652350   | 81388300   | 69058558   | 67208328   | 65282495   | 74718006   | 15    |
| Aroclor-1232-5 | (5) | 59260570   | 55517505   | 48469340   | 45516555   | 43592754   | 50471345   | 13    |
| DCB            |     | 3940096100 | 3787969100 | 3535716350 | 3261076188 | 3096142244 | 3524199996 | 10    |
| TCX            |     | 8519763000 | 8079435800 | 7321315750 | 6817487525 | 6571273238 | 7461855063 | 11    |
| Aroclor-1242-1 | (1) | 186086370  | 183803620  | 168192340  | 156611105  | 145427576  | 168024202  | 10    |
| Aroclor-1242-2 | (2) | 287833690  | 278583760  | 261297728  | 252168595  | 233363512  | 262649457  | 8     |
| Aroclor-1242-3 | (3) | 184030450  | 176951990  | 166518908  | 157703263  | 145725021  | 166185926  | 9     |
| Aroclor-1242-4 | (4) | 147263570  | 142453410  | 134633590  | 129416488  | 119588530  | 134671118  | 8     |
| Aroclor-1242-5 | (5) | 146781510  | 145152165  | 138490633  | 131089743  | 124922763  | 137287363  | 7     |
| DCB            |     | 3950442200 | 3673962050 | 3464147900 | 3316656163 | 3127636725 | 3506569008 | 9     |
| TCX            |     | 8012833000 | 7488391900 | 7089643750 | 6853579525 | 6453871975 | 7179664030 | 8     |
| Aroclor-1248-1 | (1) | 153636940  | 141763335  | 131485825  | 121528911  | 110887386  | 131860480  | 13    |
| Aroclor-1248-2 | (2) | 212737610  | 199931955  | 185177925  | 167636974  | 154981480  | 184093189  | 13    |
| Aroclor-1248-3 | (3) | 248805510  | 238795355  | 222441913  | 201628701  | 187634531  | 219861202  | 12    |

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|                |     |            |            |            |            |            |            |    |
|----------------|-----|------------|------------|------------|------------|------------|------------|----|
| Aroclor-1248-4 | (4) | 264356290  | 253142635  | 237532758  | 218600519  | 206940831  | 236114607  | 10 |
| Aroclor-1248-5 | (5) | 262606850  | 242238265  | 239704685  | 220321630  | 209463004  | 234866887  | 9  |
| DCB            |     | 4025551800 | 3781244200 | 3576742050 | 3307794988 | 3131964113 | 3564659430 | 10 |
| TCX            |     | 8329657000 | 7684292800 | 7154069350 | 6689223500 | 6403795163 | 7252207563 | 11 |
| Aroclor-1254-1 | (1) | 292516920  | 265456250  | 245938160  | 228745409  | 210153311  | 248562010  | 13 |
| Aroclor-1254-2 | (2) | 440218970  | 401501310  | 374966743  | 348346356  | 322479626  | 377502601  | 12 |
| Aroclor-1254-3 | (3) | 452376390  | 426247090  | 397236418  | 374641385  | 350125748  | 400125406  | 10 |
| Aroclor-1254-4 | (4) | 308433530  | 291584415  | 272441900  | 259280003  | 243084658  | 274964901  | 9  |
| Aroclor-1254-5 | (5) | 351019830  | 335966760  | 314672148  | 298632759  | 278853335  | 315828966  | 9  |
| DCB            |     | 3945698900 | 3775353650 | 3527268475 | 3301762613 | 3092440000 | 3528504728 | 10 |
| TCX            |     | 8006748000 | 7723719400 | 7084852850 | 6704792325 | 6301089163 | 7164240348 | 10 |
| Aroclor-1262-1 | (1) | 412282260  | 386526370  | 362284623  | 344040473  | 319451668  | 364917079  | 10 |
| Aroclor-1262-2 | (2) | 709463340  | 663223295  | 630692825  | 607498606  | 573252794  | 636826172  | 8  |
| Aroclor-1262-3 | (3) | 476100440  | 444579075  | 421737120  | 402735070  | 375727706  | 424175882  | 9  |
| Aroclor-1262-4 | (4) | 380930790  | 357365130  | 346033153  | 332240881  | 302583811  | 343830753  | 8  |
| Aroclor-1262-5 | (5) | 228304420  | 217645765  | 208145633  | 200489791  | 186646381  | 208246398  | 8  |
| DCB            |     | 4011416800 | 3797835100 | 3563759250 | 3393902788 | 3166970513 | 3586776890 | 9  |
| TCX            |     | 7935358800 | 7581879400 | 7077485050 | 6815126900 | 6361246738 | 7154219378 | 9  |
| Aroclor-1268-1 | (1) | 802938310  | 766957745  | 724757960  | 690265260  | 649313294  | 726846514  | 8  |
| Aroclor-1268-2 | (2) | 732604550  | 705882610  | 671139878  | 640931130  | 603510947  | 670813823  | 8  |
| Aroclor-1268-3 | (3) | 607278640  | 585645085  | 552312298  | 527174019  | 496167588  | 553715526  | 8  |
| Aroclor-1268-4 | (4) | 244031870  | 241469710  | 230392970  | 218254270  | 205912012  | 228012166  | 7  |
| Aroclor-1268-5 | (5) | 1712184830 | 1654777040 | 1589275355 | 1530770696 | 1467178094 | 1590837203 | 6  |
| DCB            |     | 7203746400 | 6950793300 | 6545946325 | 6201676163 | 5851348025 | 6550702043 | 8  |
| TCX            |     | 7784369400 | 7570331700 | 7074975650 | 6731470775 | 6250049513 | 7082239408 | 9  |

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** Q2164 **SAS No.:** Q2164 **SDG NO.:** Q2164

**Instrument ID:** ECD\_Q **Calibration Date(s):** 05/07/2025 05/07/2025  
**Calibration Times:** 09:43 19:11

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

| LAB FILE ID:   |     | CF 100 =   | PQ070242.D | CF 200 =   | PQ070243.D |            |            |       |
|----------------|-----|------------|------------|------------|------------|------------|------------|-------|
| CF 400 =       |     | PQ070244.D | CF 800 =   | PQ070245.D | CF 1600 =  | PQ070246.D |            |       |
| COMPOUND       |     | CF 100     | CF 200     | CF 400     | CF 800     | CF 1600    | CF         | % RSD |
| Aroclor-1016-1 | (1) | 244831050  | 234104725  | 221806225  | 201525766  | 186473343  | 217748222  | 11    |
| Aroclor-1016-2 | (2) | 384806330  | 373007160  | 353970650  | 322353258  | 294173649  | 345662209  | 11    |
| Aroclor-1016-3 | (3) | 213762540  | 201684045  | 199426353  | 180905108  | 163179393  | 191791488  | 10    |
| Aroclor-1016-4 | (4) | 197651100  | 183015770  | 176888215  | 159374183  | 140431952  | 171472244  | 13    |
| Aroclor-1016-5 | (5) | 233881080  | 217771180  | 211226138  | 190163194  | 169684682  | 204545255  | 12    |
| Aroclor-1260-1 | (1) | 416100470  | 401458190  | 382677705  | 349124549  | 316829931  | 373238169  | 11    |
| Aroclor-1260-2 | (2) | 504714760  | 479257855  | 459186653  | 421537088  | 383561715  | 449651614  | 11    |
| Aroclor-1260-3 | (3) | 470582730  | 458779125  | 438884815  | 401405923  | 369767155  | 427883950  | 10    |
| Aroclor-1260-4 | (4) | 408229490  | 398701600  | 379474313  | 350133285  | 320441559  | 371396049  | 10    |
| Aroclor-1260-5 | (5) | 886545210  | 869161550  | 847958600  | 789534651  | 741677933  | 826975589  | 7     |
| DCB            |     | 6392460500 | 6188295050 | 5871706100 | 5416604675 | 4982276188 | 5770268503 | 10    |
| TCX            |     | 7986808200 | 7971217900 | 7527001900 | 7025054750 | 6527060300 | 7407428610 | 9     |
| Aroclor-1221-1 | (1) | 104306950  | 102934105  | 93856088   | 86305436   | 75219682   | 92524452   | 13    |
| Aroclor-1221-2 | (2) | 71933420   | 71409550   | 67019775   | 61385535   | 53329533   | 65015563   | 12    |
| Aroclor-1221-3 | (3) | 237351830  | 222557425  | 209056263  | 189735430  | 164016921  | 204543574  | 14    |
| DCB            |     | 6745237500 | 6355791000 | 5757295700 | 5309739600 | 4965711638 | 5826755088 | 13    |
| TCX            |     | 8273975400 | 7936644200 | 7373328200 | 6993119450 | 6393030113 | 7394019473 | 10    |
| Aroclor-1232-1 | (1) | 198960520  | 174119395  | 147551078  | 143255313  | 132320547  | 159241370  | 17    |
| Aroclor-1232-2 | (2) | 203326740  | 176352880  | 151861970  | 145856739  | 136613859  | 162802438  | 17    |
| Aroclor-1232-3 | (3) | 96964380   | 93063710   | 91924103   | 78827216   | 73880153   | 86931912   | 11    |
| Aroclor-1232-4 | (4) | 86826220   | 78310765   | 70860250   | 66491663   | 62148966   | 72927573   | 13    |
| Aroclor-1232-5 | (5) | 101537520  | 88853940   | 79857235   | 75328051   | 69898055   | 83094960   | 15    |
| DCB            |     | 6835642400 | 6592948950 | 5890662625 | 5348386463 | 5037372556 | 5941002599 | 13    |
| TCX            |     | 8469525200 | 7869216000 | 6777209400 | 6723430825 | 6438778925 | 7255632070 | 12    |
| Aroclor-1242-1 | (1) | 212847510  | 196622210  | 181640703  | 171401668  | 156513125  | 183805043  | 12    |
| Aroclor-1242-2 | (2) | 321347660  | 302038515  | 277924480  | 264828704  | 244876711  | 282203214  | 11    |
| Aroclor-1242-3 | (3) | 185183100  | 166387405  | 153857920  | 148442520  | 134148133  | 157603816  | 12    |
| Aroclor-1242-4 | (4) | 168119800  | 158687250  | 145265763  | 138633109  | 123240126  | 146789210  | 12    |
| Aroclor-1242-5 | (5) | 222396670  | 200616320  | 184691618  | 174734018  | 159131163  | 188313958  | 13    |
| DCB            |     | 6519454800 | 6191911000 | 5739726450 | 5512158288 | 5117810631 | 5816212234 | 10    |
| TCX            |     | 8048901400 | 7689636200 | 7171798650 | 6956752425 | 6531431300 | 7279703995 | 8     |
| Aroclor-1248-1 | (1) | 166844690  | 159041945  | 145704780  | 129630974  | 121295760  | 144503630  | 13    |
| Aroclor-1248-2 | (2) | 267393450  | 247084060  | 226828163  | 203215901  | 185548619  | 226014039  | 15    |
| Aroclor-1248-3 | (3) | 257733200  | 238044705  | 218939325  | 196750273  | 181385343  | 218570569  | 14    |

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

|                |     |             |             |             |             |            |             |    |
|----------------|-----|-------------|-------------|-------------|-------------|------------|-------------|----|
| Aroclor-1248-4 | (4) | 307974170   | 288514985   | 267496275   | 240634189   | 223992312  | 265722386   | 13 |
| Aroclor-1248-5 | (5) | 298204660   | 280677055   | 258029373   | 234442030   | 220153016  | 258301227   | 12 |
| DCB            |     | 6943337400  | 6385534750  | 5964283400  | 5551941213  | 5154511050 | 5999921563  | 12 |
| TCX            |     | 8259701000  | 8094521400  | 7654981150  | 7100541375  | 6755753013 | 7573099588  | 8  |
| Aroclor-1254-1 | (1) | 465264210   | 421218240   | 388268035   | 359026883   | 325970572  | 391949588   | 14 |
| Aroclor-1254-2 | (2) | 417404210   | 378775020   | 343431555   | 316880908   | 285273006  | 348352940   | 15 |
| Aroclor-1254-3 | (3) | 645565340   | 589768205   | 550577833   | 512880479   | 471434171  | 554045206   | 12 |
| Aroclor-1254-4 | (4) | 377210720   | 345280115   | 324693155   | 303784616   | 278709103  | 325935542   | 12 |
| Aroclor-1254-5 | (5) | 581567590   | 545581815   | 508240360   | 475565996   | 436691183  | 509529389   | 11 |
| DCB            |     | 6833018300  | 6311623250  | 5866980700  | 5489896025  | 5064435513 | 5913190758  | 12 |
| TCX            |     | 8609574400  | 7868968400  | 7480709150  | 7035496525  | 6565745313 | 7512098758  | 10 |
| Aroclor-1262-1 | (1) | 592995570   | 562034660   | 523964848   | 495059705   | 450827693  | 524976495   | 11 |
| Aroclor-1262-2 | (2) | 558506080   | 521267365   | 483372328   | 457721743   | 417074146  | 487588332   | 11 |
| Aroclor-1262-3 | (3) | 430711640   | 397227585   | 376488940   | 357540324   | 328820505  | 378157799   | 10 |
| Aroclor-1262-4 | (4) | 767610910   | 715051680   | 682867328   | 657943129   | 612298943  | 687154398   | 9  |
| Aroclor-1262-5 | (5) | 360106280   | 334047740   | 319925215   | 307129353   | 286487114  | 321539140   | 9  |
| DCB            |     | 6798950800  | 6269054400  | 5866675850  | 5581295963  | 5118407738 | 5926876950  | 11 |
| TCX            |     | 8331715600  | 7910940200  | 7445930900  | 7110130000  | 6582285563 | 7476200453  | 9  |
| Aroclor-1268-1 | (1) | 1184896350  | 1115094800  | 1063234353  | 1013742048  | 942689129  | 1063931336  | 9  |
| Aroclor-1268-2 | (2) | 1067114190  | 1012074810  | 970587750   | 930274188   | 872169898  | 970444167   | 8  |
| Aroclor-1268-3 | (3) | 943388110   | 896693955   | 857229035   | 816027119   | 765155036  | 855698651   | 8  |
| Aroclor-1268-4 | (4) | 400862850   | 388656700   | 371001580   | 349331653   | 327049611  | 367380479   | 8  |
| Aroclor-1268-5 | (5) | 2764041860  | 2635399760  | 2544343785  | 2435323298  | 2363506414 | 2548523023  | 6  |
| DCB            |     | 12062320600 | 11379765650 | 10754495500 | 10207541963 | 9632865256 | 10807397794 | 9  |
| TCX            |     | 8273810400  | 7975872500  | 7446793800  | 7084944200  | 6482480025 | 7452780185  | 10 |