

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** P4562 **SAS No.:** P4562 **SDG NO.:** P4562

**Instrument ID:** ECD\_Q **Calibration Date(s):** 10/07/2024 10/08/2024  
**Calibration Times:** 17:21 02:48

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

| LAB FILE ID:   |     | CF 100 =    | PQ068975.D  | CF 200 =    | PQ068976.D  |             |             |       |
|----------------|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| CF 400 =       |     | PQ068977.D  | CF 800 =    | PQ068978.D  | CF 1600 =   | PQ068979.D  |             |       |
| COMPOUND       |     | CF 100      | CF 200      | CF 400      | CF 800      | CF 1600     | CF          | % RSD |
| Aroclor-1016-1 | (1) | 421322490   | 392738575   | 369922073   | 363614266   | 336066781   | 376732837   | 9     |
| Aroclor-1016-2 | (2) | 611949340   | 576990880   | 544810000   | 557042963   | 507594280   | 559677493   | 7     |
| Aroclor-1016-3 | (3) | 364431220   | 355483995   | 335411500   | 335137650   | 306450031   | 339382879   | 7     |
| Aroclor-1016-4 | (4) | 313809430   | 292959855   | 277199158   | 278097580   | 256018911   | 283616987   | 8     |
| Aroclor-1016-5 | (5) | 291166350   | 280714050   | 267013608   | 271948686   | 248465611   | 271861661   | 6     |
| Aroclor-1260-1 | (1) | 522731570   | 503127410   | 479562220   | 486862604   | 452181983   | 488893157   | 5     |
| Aroclor-1260-2 | (2) | 630827530   | 608352210   | 582643265   | 589260568   | 547321811   | 591681077   | 5     |
| Aroclor-1260-3 | (3) | 479955160   | 456276780   | 420612900   | 427191308   | 405089199   | 437825069   | 7     |
| Aroclor-1260-4 | (4) | 513455430   | 507287105   | 470890330   | 490105128   | 464424481   | 489232495   | 4     |
| Aroclor-1260-5 | (5) | 1026196070  | 1036580115  | 995726183   | 1010617633  | 973900667   | 1008604133  | 2     |
| DCB            |     | 4380533700  | 4285206800  | 4167189400  | 4092194025  | 4029574113  | 4190939608  | 3     |
| TCX            |     | 12852895800 | 11953659500 | 11483880900 | 11843258375 | 11020462363 | 11830831388 | 6     |
| Aroclor-1221-1 | (1) | 144327590   | 138727815   | 142124120   | 124620921   | 118108344   | 133581758   | 9     |
| Aroclor-1221-2 | (2) | 101701150   | 94026695    | 97215920    | 83485164    | 79717387    | 91229263    | 10    |
| Aroclor-1221-3 | (3) | 325586430   | 319112610   | 309746538   | 275212486   | 252217531   | 296375119   | 11    |
| DCB            |     | 4196219000  | 4312732750  | 4024770775  | 4290810700  | 4044638844  | 4173834414  | 3     |
| TCX            |     | 12504679200 | 12557294900 | 12614859050 | 11339957325 | 10745091800 | 11952376455 | 7     |
| Aroclor-1232-1 | (1) | 276885350   | 264449600   | 248989758   | 220706578   | 212705515   | 244747360   | 11    |
| Aroclor-1232-2 | (2) | 141422570   | 141880395   | 135810883   | 124140231   | 118564576   | 132363731   | 8     |
| Aroclor-1232-3 | (3) | 276005010   | 269133830   | 259199528   | 233438813   | 229453008   | 253446038   | 8     |
| Aroclor-1232-4 | (4) | 138327530   | 132121000   | 127300768   | 116215235   | 113636246   | 125520156   | 8     |
| Aroclor-1232-5 | (5) | 87518010    | 85232790    | 82910995    | 75357191    | 74322152    | 81068228    | 7     |
| DCB            |     | 4656961100  | 4122380250  | 4165149300  | 4254959500  | 4105015600  | 4260893150  | 5     |
| TCX            |     | 13014278200 | 13071346600 | 12431736150 | 11218096200 | 11198577313 | 12186806893 | 8     |
| Aroclor-1242-1 | (1) | 338142590   | 331778860   | 311212613   | 298450274   | 279081379   | 311733143   | 8     |
| Aroclor-1242-2 | (2) | 512085990   | 503282170   | 463578975   | 447454790   | 414173461   | 468115077   | 9     |
| Aroclor-1242-3 | (3) | 310938530   | 307896085   | 283797060   | 270290159   | 250150385   | 284614444   | 9     |
| Aroclor-1242-4 | (4) | 258241500   | 254997690   | 236268113   | 227337089   | 212364150   | 237841708   | 8     |
| Aroclor-1242-5 | (5) | 258420800   | 264491140   | 251852953   | 240420413   | 227803898   | 248597841   | 6     |
| DCB            |     | 4279930600  | 4457407650  | 4308292125  | 4205728675  | 3978130788  | 4245897968  | 4     |
| TCX            |     | 12825994000 | 12681670200 | 11760927950 | 11530811525 | 10861019813 | 11932084698 | 7     |
| Aroclor-1248-1 | (1) | 246065460   | 245955135   | 235178140   | 223364645   | 202590695   | 230630815   | 8     |
| Aroclor-1248-2 | (2) | 338974700   | 332570680   | 314134810   | 296358970   | 267126916   | 309833215   | 9     |
| Aroclor-1248-3 | (3) | 404263410   | 402042115   | 383716410   | 364576316   | 330103590   | 376940368   | 8     |

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

|                |     |             |             |             |             |             |             |    |
|----------------|-----|-------------|-------------|-------------|-------------|-------------|-------------|----|
| Aroclor-1248-4 | (4) | 467191640   | 464955845   | 434546943   | 419140981   | 388356767   | 434838435   | 8  |
| Aroclor-1248-5 | (5) | 448529150   | 454582265   | 424155935   | 411765528   | 383413254   | 424489226   | 7  |
| DCB            |     | 4393483700  | 4496063550  | 4275133425  | 4160210963  | 4140956544  | 4293169636  | 4  |
| TCX            |     | 12330480800 | 12353006800 | 12099007950 | 11711804800 | 10613053188 | 11821470708 | 6  |
| Aroclor-1254-1 | (1) | 491179530   | 463487590   | 431390180   | 390190370   | 382089761   | 431667486   | 11 |
| Aroclor-1254-2 | (2) | 761429450   | 713501695   | 674664105   | 609675606   | 602114723   | 672277116   | 10 |
| Aroclor-1254-3 | (3) | 811661710   | 760459135   | 728576105   | 674067675   | 666009276   | 728154780   | 8  |
| Aroclor-1254-4 | (4) | 582269440   | 542855990   | 528707725   | 498928640   | 489778328   | 528508025   | 7  |
| Aroclor-1254-5 | (5) | 656591410   | 606973425   | 580969973   | 548627205   | 535762162   | 585784835   | 8  |
| DCB            |     | 4898642300  | 4331402400  | 4349433300  | 4288740713  | 4134697888  | 4400583320  | 7  |
| TCX            |     | 12733125400 | 12674677600 | 11881544650 | 10617573425 | 10748747313 | 11731133678 | 9  |
| Aroclor-1262-1 | (1) | 651964550   | 650903890   | 633084093   | 634631209   | 604506569   | 635018062   | 3  |
| Aroclor-1262-2 | (2) | 1261428830  | 1242001715  | 1231573235  | 1232038055  | 1181229007  | 1229654168  | 2  |
| Aroclor-1262-3 | (3) | 785984210   | 800060165   | 804089625   | 792315381   | 758134006   | 788116677   | 2  |
| Aroclor-1262-4 | (4) | 587052320   | 598919320   | 604926223   | 605608669   | 572240255   | 593749357   | 2  |
| Aroclor-1262-5 | (5) | 392494700   | 395920590   | 395349813   | 394646711   | 370719172   | 389826197   | 3  |
| DCB            |     | 4370227100  | 4502658550  | 4529498325  | 4464193338  | 4181037069  | 4409522876  | 3  |
| TCX            |     | 12721744600 | 12251191700 | 11211476650 | 11538280975 | 11124359438 | 11769410673 | 6  |
| Aroclor-1268-1 | (1) | 1413836460  | 1363932140  | 1336350113  | 1297923740  | 1249760124  | 1332360515  | 5  |
| Aroclor-1268-2 | (2) | 1258179460  | 1244336450  | 1216927678  | 1177616686  | 1140798423  | 1207571739  | 4  |
| Aroclor-1268-3 | (3) | 1069071870  | 1037584565  | 1020539715  | 987310678   | 954227265   | 1013746819  | 4  |
| Aroclor-1268-4 | (4) | 422458120   | 429575155   | 415655835   | 403364009   | 389674463   | 412145516   | 4  |
| Aroclor-1268-5 | (5) | 3157300540  | 3160987295  | 3076215685  | 3002088624  | 2936659577  | 3066650344  | 3  |
| DCB            |     | 11155288200 | 11001180750 | 10526518825 | 10131391163 | 9779335338  | 10518742855 | 5  |
| TCX            |     | 13041125400 | 11685813000 | 11910398300 | 11611257925 | 10998577038 | 11849434333 | 6  |

**CALIBRATION FACTOR OF INITIAL CALIBRATION**

**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** P4562 **SAS No.:** P4562 **SDG NO.:** P4562

**Instrument ID:** ECD\_Q **Calibration Date(s):** 10/07/2024 10/08/2024  
**Calibration Times:** 17:21 02:48

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

| LAB FILE ID:   |     | CF 100 =    | PQ068975.D  | CF 200 =    | PQ068976.D  |             |             |          |
|----------------|-----|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| CF 400 =       |     | PQ068977.D  | CF 800 =    | PQ068978.D  | CF 1600 =   | PQ068979.D  |             |          |
| COMPOUND       |     | CF 100      | CF 200      | CF 400      | CF 800      | CF 1600     | CF          | %<br>RSD |
| Aroclor-1016-1 | (1) | 410478590   | 394339035   | 363686330   | 362969210   | 335578637   | 373410360   | 8        |
| Aroclor-1016-2 | (2) | 604693190   | 567760515   | 539715368   | 536887491   | 492473081   | 548305929   | 8        |
| Aroclor-1016-3 | (3) | 318067250   | 304910215   | 289866943   | 288801703   | 265677944   | 293464811   | 7        |
| Aroclor-1016-4 | (4) | 272378020   | 255835920   | 240767630   | 238850648   | 217576936   | 245081831   | 8        |
| Aroclor-1016-5 | (5) | 351816440   | 322960880   | 302097200   | 300670821   | 274031731   | 310315415   | 9        |
| Aroclor-1260-1 | (1) | 632230990   | 611221640   | 563263398   | 561196979   | 505347268   | 574652055   | 9        |
| Aroclor-1260-2 | (2) | 767729110   | 753456095   | 696531305   | 689533190   | 626417709   | 706733482   | 8        |
| Aroclor-1260-3 | (3) | 721044500   | 710422765   | 658314338   | 657944360   | 599876436   | 669520480   | 7        |
| Aroclor-1260-4 | (4) | 632877070   | 614475425   | 568906105   | 567243211   | 516890984   | 580078559   | 8        |
| Aroclor-1260-5 | (5) | 1464863450  | 1443717715  | 1333880775  | 1334691156  | 1196365695  | 1354703758  | 8        |
| DCB            |     | 6671409100  | 6700040450  | 6216408525  | 6047258563  | 5463167988  | 6219656925  | 8        |
| TCX            |     | 12145222200 | 11543147100 | 10996681750 | 11220726250 | 10513538100 | 11283863080 | 5        |
| Aroclor-1221-1 | (1) | 138126690   | 137137110   | 138513738   | 123226903   | 114767901   | 130354468   | 8        |
| Aroclor-1221-2 | (2) | 98054230    | 99661070    | 97431568    | 85347348    | 81342801    | 92367403    | 9        |
| Aroclor-1221-3 | (3) | 321938680   | 322503180   | 304926455   | 270471251   | 249039674   | 293775848   | 11       |
| DCB            |     | 6664785500  | 6228230600  | 6012661150  | 5662261950  | 5798644675  | 6073316775  | 6        |
| TCX            |     | 11938772000 | 11587211100 | 11674220200 | 10693107250 | 10200780113 | 11218818133 | 7        |
| Aroclor-1232-1 | (1) | 277848710   | 265920995   | 241044348   | 223280648   | 213623569   | 244343654   | 11       |
| Aroclor-1232-2 | (2) | 273891820   | 268933420   | 254314468   | 236088550   | 232017714   | 253049194   | 7        |
| Aroclor-1232-3 | (3) | 141598160   | 141106315   | 133075500   | 125594354   | 122749258   | 132824717   | 7        |
| Aroclor-1232-4 | (4) | 119020260   | 112874855   | 109014143   | 99923199    | 97306344    | 107627760   | 8        |
| Aroclor-1232-5 | (5) | 143445640   | 134651805   | 127927810   | 119391778   | 116314839   | 128346374   | 9        |
| DCB            |     | 6773006500  | 6285641850  | 6128310025  | 6216637750  | 5618580081  | 6204435241  | 7        |
| TCX            |     | 12265571800 | 12309892500 | 11679134200 | 10841576125 | 10923635938 | 11603962113 | 6        |
| Aroclor-1242-1 | (1) | 364327980   | 357998540   | 331418078   | 309112388   | 285561726   | 329683742   | 10       |
| Aroclor-1242-2 | (2) | 535943260   | 516085255   | 474729078   | 448779725   | 413608693   | 477829202   | 10       |
| Aroclor-1242-3 | (3) | 285003270   | 277888820   | 259297928   | 241753313   | 224558679   | 257700402   | 10       |
| Aroclor-1242-4 | (4) | 261244950   | 252730150   | 232720165   | 215532690   | 197909799   | 232027551   | 11       |
| Aroclor-1242-5 | (5) | 359471350   | 346443965   | 320329798   | 298177940   | 274199585   | 319724528   | 11       |
| DCB            |     | 6687505700  | 6675704950  | 6362451875  | 6017667400  | 5557094781  | 6260084941  | 8        |
| TCX            |     | 13094524200 | 12605314800 | 11918668100 | 11513756625 | 11078827413 | 12042218228 | 7        |
| Aroclor-1248-1 | (1) | 270667240   | 263584950   | 246270350   | 233871270   | 219257458   | 246730254   | 9        |
| Aroclor-1248-2 | (2) | 396992350   | 392471820   | 363464608   | 332336716   | 304957603   | 358044619   | 11       |
| Aroclor-1248-3 | (3) | 378845200   | 373263985   | 347787113   | 317608329   | 293190736   | 342139072   | 11       |

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|                |     |             |             |             |             |             |             |    |
|----------------|-----|-------------|-------------|-------------|-------------|-------------|-------------|----|
| Aroclor-1248-4 | (4) | 476736930   | 474395285   | 437217420   | 406443556   | 376686678   | 434295974   | 10 |
| Aroclor-1248-5 | (5) | 488556900   | 479095500   | 446638848   | 417697654   | 397272454   | 445852271   | 9  |
| DCB            |     | 6810343900  | 6811268550  | 6261494500  | 6195823538  | 5915829613  | 6398952020  | 6  |
| TCX            |     | 12900886000 | 12755099500 | 12340678400 | 11709733750 | 10755103363 | 12092300203 | 7  |
| Aroclor-1254-1 | (1) | 756087680   | 708003880   | 647078858   | 594134853   | 587212564   | 658503567   | 11 |
| Aroclor-1254-2 | (2) | 674025820   | 615163315   | 563722005   | 518474270   | 510157223   | 576308527   | 12 |
| Aroclor-1254-3 | (3) | 1048319030  | 968732085   | 906004605   | 848987879   | 842382453   | 922885210   | 9  |
| Aroclor-1254-4 | (4) | 687462140   | 625124650   | 589674553   | 556986155   | 549973515   | 601844203   | 9  |
| Aroclor-1254-5 | (5) | 990802060   | 869932575   | 816340445   | 787823196   | 758183287   | 844616313   | 11 |
| DCB            |     | 6876044700  | 6703342150  | 6327497350  | 6211074113  | 5759693625  | 6375530388  | 7  |
| TCX            |     | 13050444200 | 13030381100 | 12366543350 | 11199784825 | 11278178238 | 12185066343 | 7  |
| Aroclor-1262-1 | (1) | 922995920   | 906742625   | 902730353   | 850908820   | 791780141   | 875031572   | 6  |
| Aroclor-1262-2 | (2) | 856013220   | 806340280   | 823707310   | 789468511   | 736288983   | 802363661   | 6  |
| Aroclor-1262-3 | (3) | 709262520   | 658580515   | 659777540   | 619628420   | 574339909   | 644317781   | 8  |
| Aroclor-1262-4 | (4) | 1229999520  | 1185894570  | 1221641460  | 1132605504  | 1061366056  | 1166301422  | 6  |
| Aroclor-1262-5 | (5) | 557302110   | 543516540   | 558267013   | 527657948   | 494918154   | 536332353   | 5  |
| DCB            |     | 6595719300  | 6535477900  | 6567660775  | 6274496650  | 5819847256  | 6358640376  | 5  |
| TCX            |     | 13366879000 | 12934264300 | 11898246700 | 12112136875 | 11704028800 | 12403111135 | 6  |
| Aroclor-1268-1 | (1) | 1975138890  | 1886117990  | 1786880323  | 1661690194  | 1598208820  | 1781607243  | 9  |
| Aroclor-1268-2 | (2) | 1798967960  | 1734899105  | 1651451730  | 1547934529  | 1486483214  | 1643947308  | 8  |
| Aroclor-1268-3 | (3) | 1542571550  | 1506098280  | 1409285600  | 1320611584  | 1273518089  | 1410417021  | 8  |
| Aroclor-1268-4 | (4) | 606839800   | 615830915   | 572634273   | 543452774   | 519709135   | 571693379   | 7  |
| Aroclor-1268-5 | (5) | 4556150940  | 4583997185  | 4345088425  | 4159192668  | 4047389416  | 4338363727  | 5  |
| DCB            |     | 15989185300 | 16059373950 | 14752442450 | 13940948188 | 13406658950 | 14829721768 | 8  |
| TCX            |     | 13921942800 | 12487956300 | 12464410100 | 12044248925 | 11533930175 | 12490497660 | 7  |