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1. Identification of test laboratory

| | |
|---------------------------|--|
| Company name | SGS-TÜV Saarland Forster GmbH |
| Address | Saarbruecker Strasse 1 66706 Perl Germany |
| Laboratory accreditation | D-PL-12103-01-01 KBA-P-00029-98 |
| Name for contact purposes | MR. Karl-Heinz Forster |
| Telephone | (+49)-6866-93200 |
| Fax | (+49)-6866-93201 |
| E-mail | info@emv-forster.de |

Personel involved in this test report

| | |
|------------------------------|------------------------------|
| Responsible for test report: | Mr K.-H. Forster |
| Responsible for testing: | Mr K.Cypher/ Mr.MSc M.Linder |

Head of test laboratory: K.-H. Forster

Signature: 



2. Standards and requirements

Tests were performed according to:

MILSTD 285

NSA 65-6

EN50147-1

Test environmental

Semi-Anechoic Chamber

| | |
|---------------|----------|
| Temperature | 21.0° C |
| Rel. humidity | 51 % |
| Air pressure | 1013 hPa |

4. Test setup shield attenuation test

4.1. Mounting of samples

Outside chamber

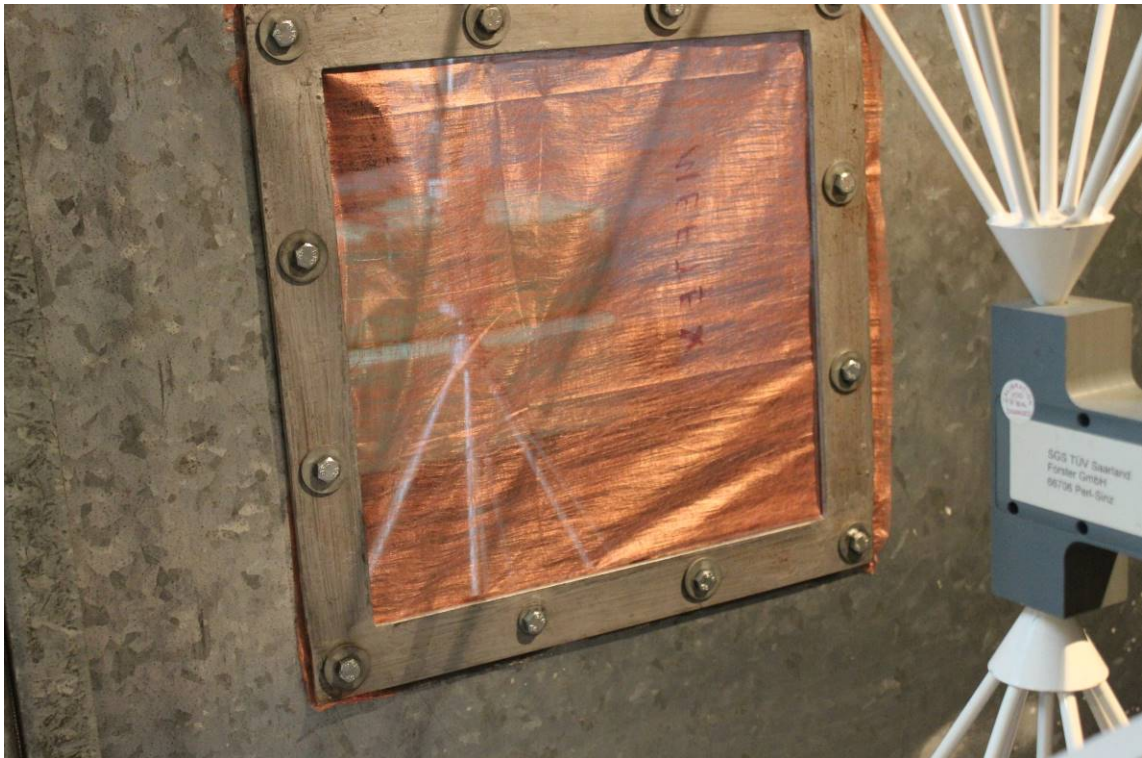


Inside chamber



4.2. Test setup 30MHz-300MHz

Range 30M to 300MHz

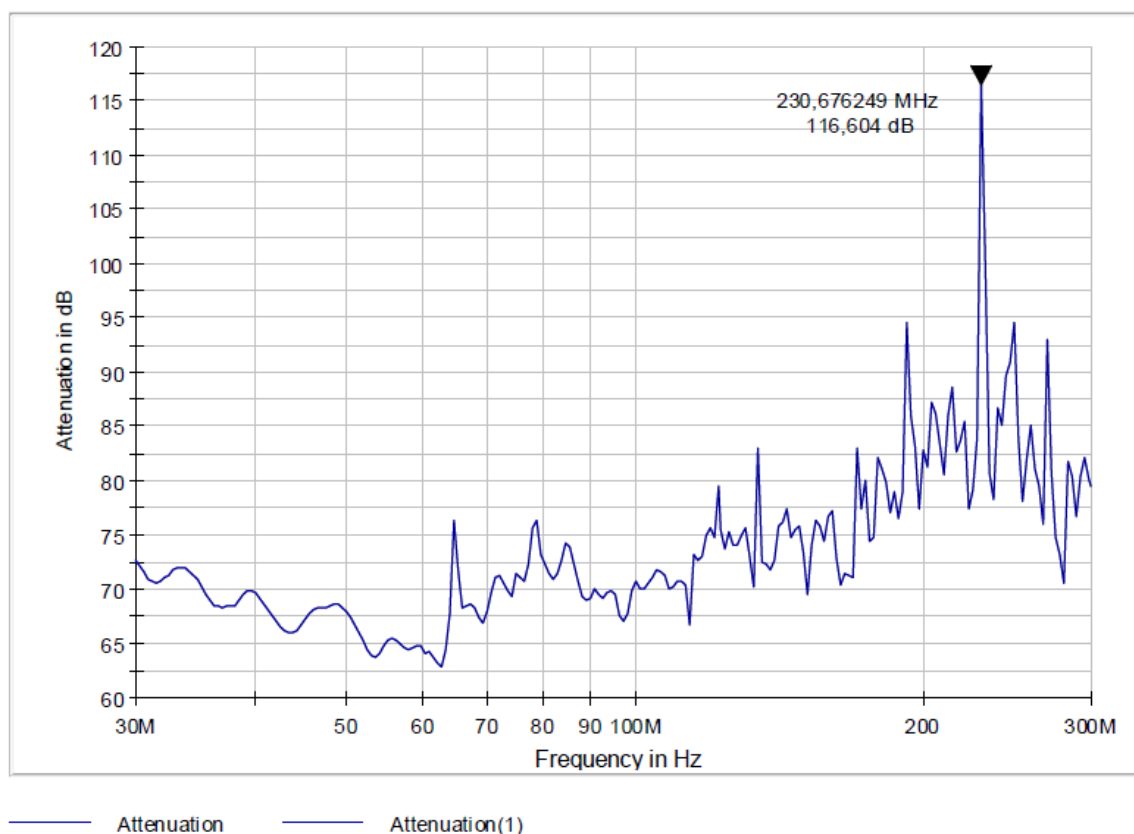


4.2.1 Test results attenuation of sample

Common Information

| | |
|-------------------------|---|
| Signal Path: | <not used> |
| Correction Table: | Schirmdämpfung - Meftex - 30-300MHz (Cal. Date: 2020-01-03 11:05:21) |
| RF generator: | SML 03 (Modulation Off;10,0dBm) |
| Power Meter: | ESR 7 ("RF Input" = 1 DC;"No. of Repetitions" = 1;"Measurement Mode" = Single;"IF Ba) |
| Frequency Range: | 30MHz - 300MHz, 1% LOG |
| DUT: | Sample 1 |
| Environment Conditions: | 20°C ; 52% |
| Test Site: | SR1 |
| Comment: | - |

Path Calibration Result



Schirmdämpfung - Meftex - 30-300MHz

| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 30.000000 | 72.7 |
| 30.300000 | 72.1 |
| 30.603000 | 71.5 |
| 30.909030 | 71.0 |
| 31.218120 | 70.6 |
| 31.530302 | 70.5 |
| 31.845605 | 70.7 |
| 32.164061 | 71.0 |
| 32.485701 | 71.3 |
| 32.810558 | 71.7 |
| 33.138664 | 71.9 |
| 33.470050 | 72.0 |
| 33.804751 | 71.9 |
| 34.142798 | 71.6 |
| 34.484226 | 71.3 |
| 34.829069 | 70.9 |
| 35.177359 | 70.2 |
| 35.529133 | 69.5 |
| 35.884424 | 68.9 |
| 36.243269 | 68.5 |
| 36.605701 | 68.3 |
| 36.971758 | 68.2 |
| 37.341476 | 68.4 |
| 37.714891 | 68.4 |
| 38.092039 | 68.5 |
| 38.472960 | 69.0 |
| 38.857689 | 69.5 |
| 39.246266 | 69.8 |
| 39.638729 | 69.8 |
| 40.035116 | 69.6 |
| 40.435467 | 69.2 |
| 40.839822 | 68.6 |
| 41.248220 | 68.0 |
| 41.660703 | 67.5 |
| 42.077310 | 67.0 |
| 42.498083 | 66.5 |
| 42.923064 | 66.2 |
| 43.352294 | 66.0 |
| 43.785817 | 65.9 |
| 44.223675 | 66.2 |
| 44.665912 | 66.7 |
| 45.112571 | 67.2 |
| 45.563697 | 67.7 |
| 46.019334 | 68.1 |
| 46.479527 | 68.3 |
| 46.944322 | 68.3 |
| 47.413766 | 68.3 |
| 47.887903 | 68.4 |
| 48.366782 | 68.5 |
| 48.850450 | 68.5 |
| 49.338955 | 68.3 |
| 49.832344 | 67.9 |
| 50.330668 | 67.4 |
| 50.833974 | 66.7 |
| 51.342314 | 65.9 |
| 51.855737 | 65.2 |
| 52.374295 | 64.4 |
| 52.898038 | 63.8 |
| 53.427018 | 63.7 |
| 53.961288 | 64.1 |
| 54.500901 | 64.8 |
| 55.045910 | 65.3 |
| 55.596369 | 65.4 |
| 56.152333 | 65.2 |
| 56.713856 | 64.8 |
| 57.280995 | 64.6 |
| 57.853805 | 64.4 |

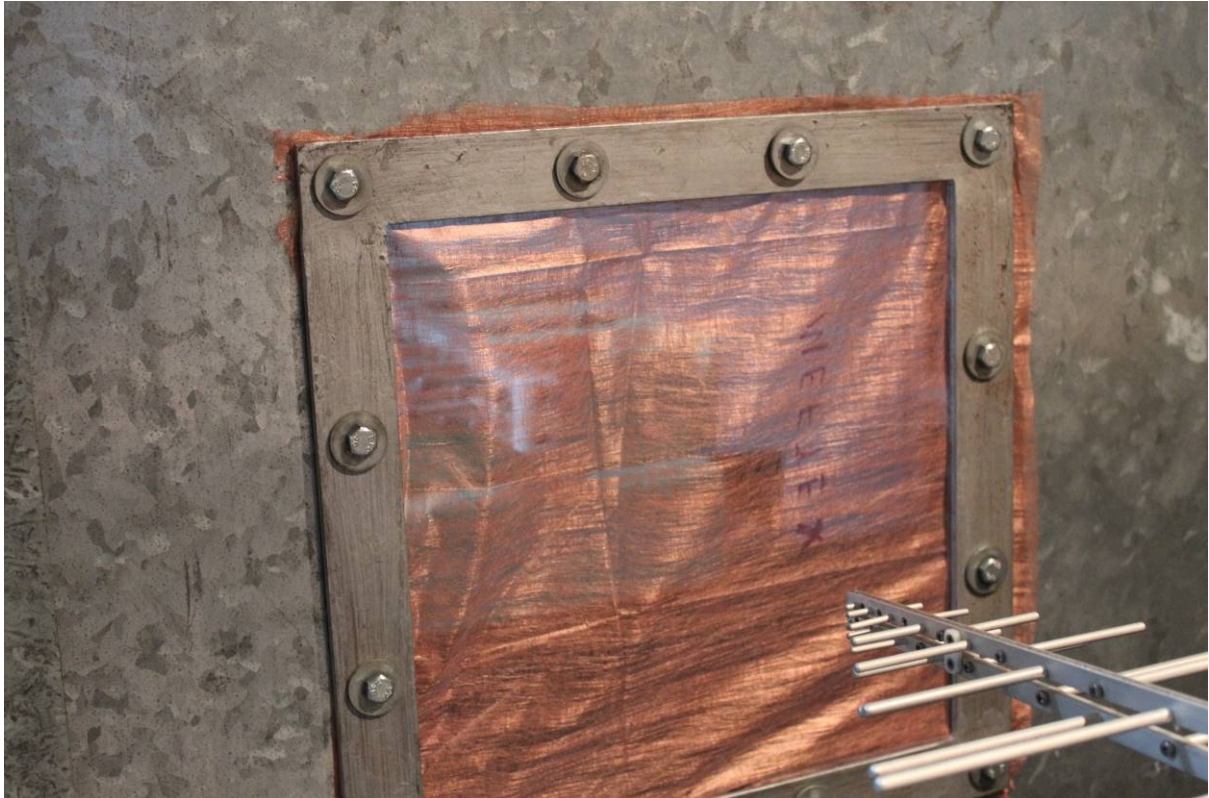
| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 58.432343 | 64.5 |
| 59.016666 | 64.7 |
| 59.606833 | 64.7 |
| 60.202901 | 64.0 |
| 60.804930 | 64.2 |
| 61.412979 | 63.8 |
| 62.027109 | 63.1 |
| 62.647380 | 62.8 |
| 63.273854 | 64.5 |
| 63.906593 | 67.7 |
| 64.545659 | 76.3 |
| 65.191115 | 71.7 |
| 65.843026 | 68.2 |
| 66.501457 | 68.4 |
| 67.166471 | 68.6 |
| 67.838136 | 68.2 |
| 68.516517 | 67.4 |
| 69.201682 | 66.9 |
| 69.893699 | 67.8 |
| 70.592636 | 69.7 |
| 71.298562 | 71.0 |
| 72.011548 | 71.1 |
| 72.731664 | 70.5 |
| 73.458980 | 69.9 |
| 74.193570 | 69.3 |
| 74.935506 | 71.5 |
| 75.684861 | 71.1 |
| 76.441709 | 70.6 |
| 77.206127 | 72.3 |
| 77.978188 | 75.7 |
| 78.757970 | 76.3 |
| 79.545549 | 73.2 |
| 80.341005 | 72.3 |
| 81.144415 | 71.4 |
| 81.955859 | 70.9 |
| 82.775418 | 71.4 |
| 83.603172 | 72.6 |
| 84.439204 | 74.1 |
| 85.283596 | 73.9 |
| 86.136432 | 72.3 |
| 86.997796 | 70.8 |
| 87.867774 | 69.3 |
| 88.746452 | 68.9 |
| 89.633916 | 69.1 |
| 90.530255 | 70.1 |
| 91.435558 | 69.5 |
| 92.349913 | 69.2 |
| 93.273412 | 69.6 |
| 94.206147 | 69.8 |
| 95.148208 | 69.4 |
| 96.099690 | 67.6 |
| 97.060687 | 67.0 |
| 98.031294 | 67.7 |
| 99.011607 | 69.9 |
| 100.001723 | 70.7 |
| 101.001740 | 70.0 |
| 102.011758 | 70.0 |
| 103.031875 | 70.5 |
| 104.062194 | 71.0 |
| 105.102816 | 71.8 |
| 106.153844 | 71.6 |
| 107.215382 | 71.1 |
| 108.287536 | 70.1 |
| 109.370412 | 70.1 |
| 110.464116 | 70.7 |
| 111.568757 | 70.8 |
| 112.684444 | 70.4 |

| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 113.811289 | 66.6 |
| 114.949402 | 73.1 |
| 116.098896 | 72.7 |
| 117.259885 | 73.0 |
| 118.432484 | 74.9 |
| 119.616808 | 75.6 |
| 120.812977 | 74.7 |
| 122.021106 | 79.4 |
| 123.241317 | 75.5 |
| 124.473731 | 73.7 |
| 125.718468 | 75.2 |
| 126.975652 | 74.0 |
| 128.245409 | 74.0 |
| 129.527863 | 74.9 |
| 130.823142 | 75.7 |
| 132.131373 | 72.9 |
| 133.452687 | 70.2 |
| 134.787214 | 82.9 |
| 136.135086 | 72.4 |
| 137.496437 | 72.3 |
| 138.871401 | 71.7 |
| 140.260115 | 72.6 |
| 141.662716 | 75.8 |
| 143.079343 | 76.2 |
| 144.510137 | 77.4 |
| 145.955238 | 74.7 |
| 147.414791 | 75.4 |
| 148.888939 | 75.7 |
| 150.377828 | 73.3 |
| 151.881606 | 69.4 |
| 153.400422 | 74.0 |
| 154.934426 | 76.3 |
| 156.483771 | 75.7 |
| 158.048608 | 74.4 |
| 159.629095 | 76.7 |
| 161.225385 | 77.2 |
| 162.837639 | 72.8 |
| 164.466016 | 70.4 |
| 166.110676 | 71.4 |
| 167.771783 | 71.1 |
| 169.449500 | 71.1 |
| 171.143995 | 83.0 |
| 172.855435 | 77.4 |
| 174.583990 | 80.1 |
| 176.329830 | 74.4 |
| 178.093128 | 74.8 |
| 179.874059 | 82.0 |
| 181.672800 | 81.1 |
| 183.489528 | 79.8 |
| 185.324423 | 77.0 |
| 187.177667 | 79.0 |
| 189.049444 | 76.4 |
| 190.939938 | 79.0 |
| 192.849338 | 94.5 |
| 194.777831 | 86.0 |
| 196.725610 | 83.1 |
| 198.692866 | 77.4 |
| 200.679794 | 82.8 |
| 202.686592 | 81.2 |
| 204.713458 | 87.2 |
| 206.760593 | 86.2 |
| 208.828199 | 83.3 |
| 210.916481 | 80.4 |
| 213.025645 | 85.9 |
| 215.155902 | 88.7 |
| 217.307461 | 82.6 |
| 219.480536 | 83.7 |

| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 221.675341 | 85.5 |
| 223.892094 | 77.3 |
| 226.131015 | 79.1 |
| 228.392325 | 83.9 |
| 230.676249 | 116.6 |
| 232.983011 | 100.0 |
| 235.312841 | 80.7 |
| 237.665970 | 78.3 |
| 240.042629 | 86.7 |
| 242.443056 | 85.1 |
| 244.867486 | 89.7 |
| 247.316161 | 90.9 |
| 249.789323 | 94.6 |
| 252.287216 | 83.9 |
| 254.810088 | 78.0 |
| 257.358189 | 81.9 |
| 259.931771 | 85.2 |
| 262.531089 | 81.1 |
| 265.156399 | 79.5 |
| 267.807963 | 75.9 |
| 270.486043 | 93.0 |
| 273.190904 | 80.7 |
| 275.922813 | 74.7 |
| 278.682041 | 73.1 |
| 281.468861 | 70.5 |
| 284.283550 | 81.7 |
| 287.126385 | 80.3 |
| 289.997649 | 76.7 |
| 292.897626 | 80.3 |
| 295.826602 | 82.1 |
| 298.784868 | 80.2 |
| 300.000000 | 79.5 |

4.3. Test setup shield attenuation test 300MHz - 1GHz

Range 300MHz-1GHz

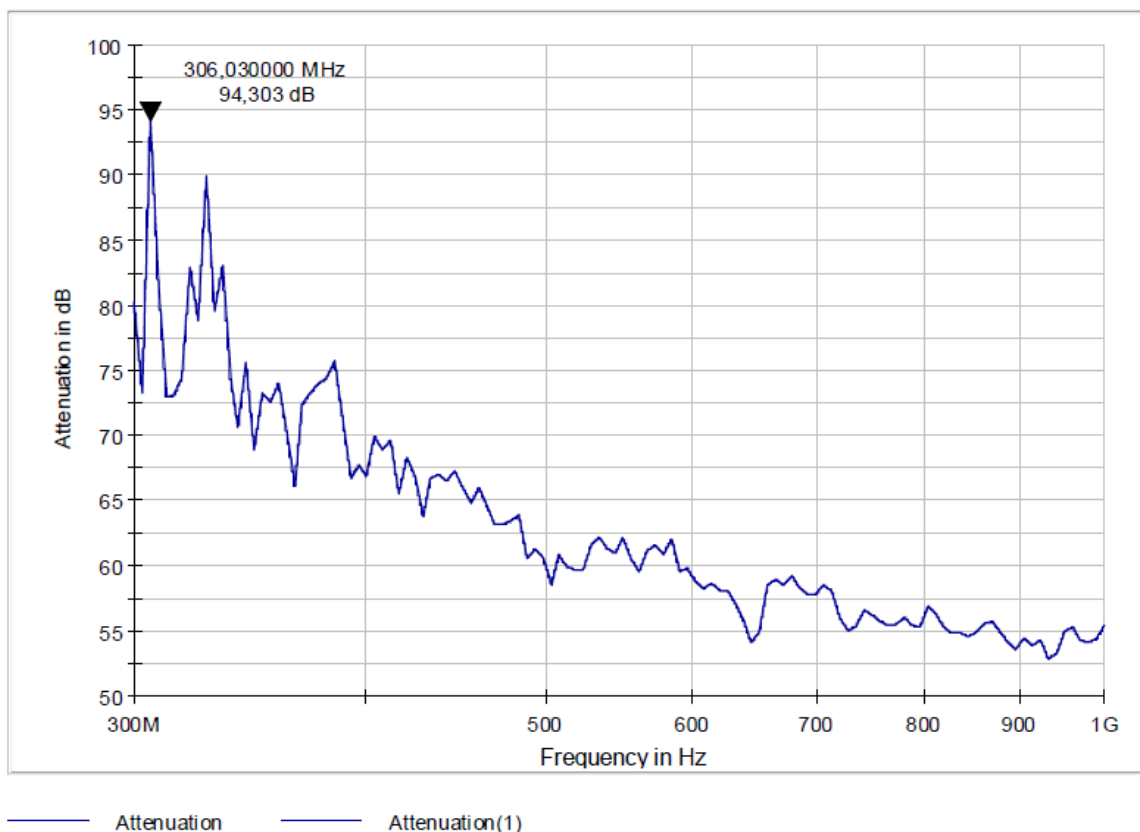


4.3.1 Test results attenuation of sample

Common Information

| | |
|-------------------------|---|
| Signal Path: | <not used> |
| Correction Table: | Schirmdämpfung - Meftex - 300-1000MHz (Cal. Date: 2020-01-03 11:34:18) |
| RF generator: | SML 03 (Modulation Off;10,0dBm) |
| Power Meter: | ESR 7 ("RF Input" = 1 DC;"No. of Repetitions" = 1;"Measurement Mode" = Single;"IF Ba) |
| Frequency Range: | 300MHz - 1GHz, 1% LOG |
| DUT: | Sample 1 |
| Environment Conditions: | 20°C ; 52% |
| Test Site: | SR1 |
| Comment: | - |

Path Calibration Result



Schirmdämpfung - Meftex - 300-1000MHz

| Frequency (MHz) | Attenuation (dB) | Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|-----------------|------------------|
| 300.000000 | 80.3 | 584.323426 | 62.0 |
| 303.000000 | 73.2 | 590.166661 | 59.5 |
| 306.030000 | 94.3 | 596.068327 | 59.8 |
| 309.090300 | 81.5 | 602.029011 | 58.8 |
| 312.181203 | 72.9 | 608.049301 | 58.2 |
| 315.303015 | 73.1 | 614.129794 | 58.6 |
| 318.456045 | 74.4 | 620.271092 | 58.1 |
| 321.640606 | 83.0 | 626.473802 | 58.0 |
| 324.857012 | 78.7 | 632.738541 | 57.0 |
| 328.105582 | 89.9 | 639.065926 | 55.6 |
| 331.386638 | 79.5 | 645.456585 | 54.1 |
| 334.700504 | 83.0 | 651.911151 | 54.9 |
| 338.047509 | 74.2 | 658.430263 | 58.5 |
| 341.427984 | 70.7 | 665.014565 | 58.9 |
| 344.842264 | 75.5 | 671.664711 | 58.5 |
| 348.290687 | 68.9 | 678.381358 | 59.2 |
| 351.773593 | 73.2 | 685.165171 | 58.2 |
| 355.291329 | 72.6 | 692.016823 | 57.7 |
| 358.844243 | 74.0 | 698.936991 | 57.8 |
| 362.432685 | 70.2 | 705.926361 | 58.4 |
| 366.057012 | 66.1 | 712.985625 | 58.1 |
| 369.717582 | 72.3 | 720.115481 | 55.9 |
| 373.414758 | 73.2 | 727.316636 | 55.0 |
| 377.148906 | 73.9 | 734.589802 | 55.3 |
| 380.920395 | 74.4 | 741.935700 | 56.6 |
| 384.729599 | 75.7 | 749.355057 | 56.2 |
| 388.576894 | 71.2 | 756.848608 | 55.7 |
| 392.462663 | 66.7 | 764.417094 | 55.4 |
| 396.387290 | 67.7 | 772.061265 | 55.4 |
| 400.351163 | 66.9 | 779.781878 | 56.0 |
| 404.354675 | 69.9 | 787.579696 | 55.4 |
| 408.398221 | 68.9 | 795.455493 | 55.2 |
| 412.482204 | 69.6 | 803.410048 | 56.9 |
| 416.607026 | 65.5 | 811.444149 | 56.2 |
| 420.773096 | 68.3 | 819.558590 | 55.3 |
| 424.980827 | 66.8 | 827.754176 | 54.8 |
| 429.230635 | 63.8 | 836.031718 | 54.8 |
| 433.522941 | 66.7 | 844.392035 | 54.5 |
| 437.858171 | 67.0 | 852.835956 | 54.9 |
| 442.236753 | 66.5 | 861.364315 | 55.5 |
| 446.659120 | 67.2 | 869.977958 | 55.6 |
| 451.125711 | 65.9 | 878.677738 | 54.8 |
| 455.636968 | 64.8 | 887.464515 | 54.1 |
| 460.193338 | 66.0 | 896.339160 | 53.6 |
| 464.795271 | 64.4 | 905.302552 | 54.5 |
| 469.443224 | 63.2 | 914.355577 | 53.9 |
| 474.137656 | 63.2 | 923.499133 | 54.3 |
| 478.879033 | 63.4 | 932.734125 | 52.8 |
| 483.667823 | 63.8 | 942.061466 | 53.2 |
| 488.504502 | 60.5 | 951.482080 | 55.0 |
| 493.389547 | 61.3 | 960.996901 | 55.3 |
| 498.323442 | 60.6 | 970.606870 | 54.2 |
| 503.306676 | 58.5 | 980.312939 | 54.0 |
| 508.339743 | 60.8 | 990.116068 | 54.3 |
| 513.423141 | 59.9 | 1000.000000 | 55.4 |
| 518.557372 | 59.7 | | |
| 523.742946 | 59.6 | | |
| 528.980375 | 61.6 | | |
| 534.270179 | 62.1 | | |
| 539.612881 | 61.3 | | |
| 545.009010 | 60.9 | | |
| 550.459100 | 62.1 | | |
| 555.963691 | 60.5 | | |
| 561.523328 | 59.5 | | |
| 567.138561 | 61.2 | | |
| 572.809946 | 61.6 | | |
| 578.538046 | 60.8 | | |

4.4. Test setup shield attenuation test 1GHz - 20GHz

Range 1GHz-20GHz

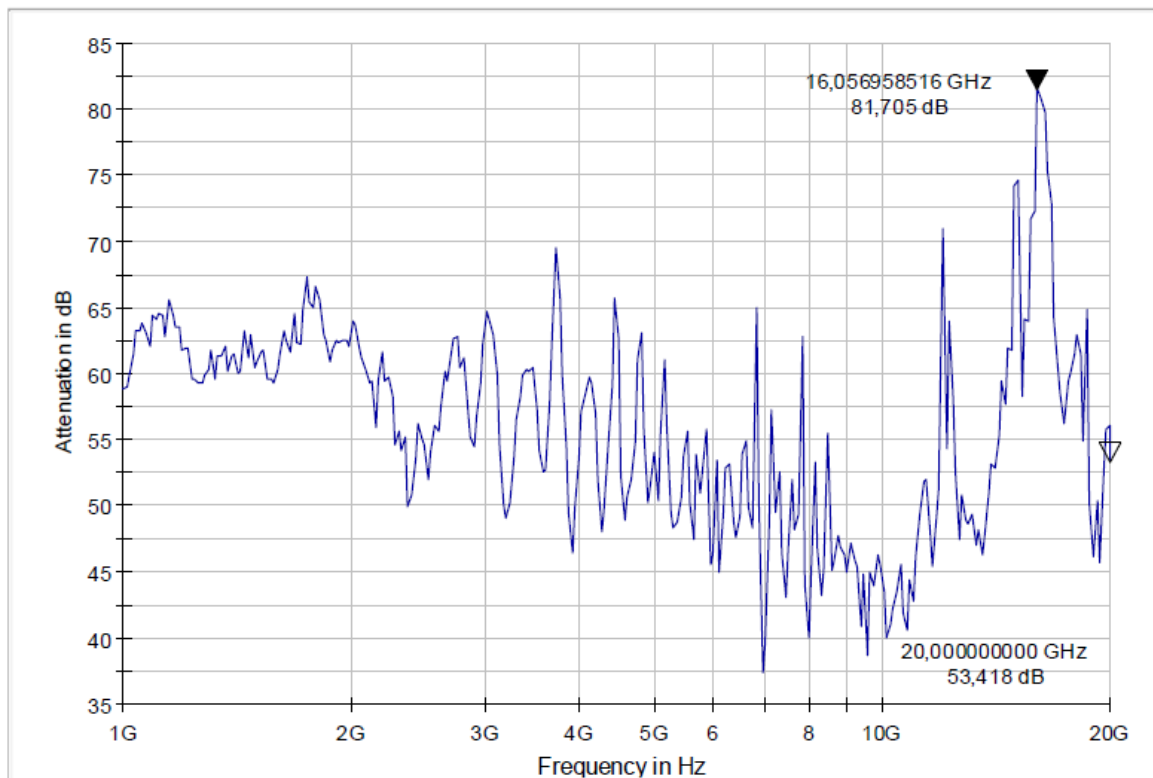


4.4.1 Test results attenuation of sample

Common Information

| | |
|-------------------------|---|
| Signal Path: | <not used> |
| Correction Table: | 1000-20000MHz (Cal. Date: 2020-01-03 15:15:14) |
| RF generator: | SMR 20 (Modulation Off;10,0dBm) |
| Power Meter: | ESU 26 ("RF Input" = 1 DC;"No. of Repetitions" = 1;"Measurement Mode" = Single;"IF Ba") |
| Frequency Range: | 1GHz - 20GHz, 1% LOG |
| DUT: | Sample 1 |
| Environment Conditions: | 20°C ; 52% |
| Test Site: | SR1 |
| Comment: | -- |

Path Calibration Result



— Attenuation

1000-20000MHz

| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 1000.000000 | 58.8 |
| 1010.000000 | 59.0 |
| 1020.100000 | 59.8 |
| 1030.301000 | 61.4 |
| 1040.604010 | 63.2 |
| 1051.010050 | 63.2 |
| 1061.520151 | 63.8 |
| 1072.135352 | 63.1 |
| 1082.856706 | 62.1 |
| 1093.685273 | 64.4 |
| 1104.622125 | 64.0 |
| 1115.668347 | 64.6 |
| 1126.825030 | 64.4 |
| 1138.093280 | 62.7 |
| 1149.474213 | 65.5 |
| 1160.968955 | 64.4 |
| 1172.578645 | 63.5 |
| 1184.304431 | 63.6 |
| 1196.147476 | 61.7 |
| 1208.108950 | 61.9 |
| 1220.190040 | 61.9 |
| 1232.391940 | 59.5 |
| 1244.715860 | 59.6 |
| 1257.163018 | 59.3 |
| 1269.734649 | 59.3 |
| 1282.431995 | 59.9 |
| 1295.256315 | 60.3 |
| 1308.208878 | 61.7 |
| 1321.290967 | 59.5 |
| 1334.503877 | 61.2 |
| 1347.848915 | 61.3 |
| 1361.327404 | 62.0 |
| 1374.940679 | 60.1 |
| 1388.690085 | 61.4 |
| 1402.576986 | 61.5 |
| 1416.602756 | 60.0 |
| 1430.768784 | 60.1 |
| 1445.076471 | 63.3 |
| 1459.527236 | 61.2 |
| 1474.122509 | 62.9 |
| 1488.863734 | 60.4 |
| 1503.752371 | 60.9 |
| 1518.789895 | 61.6 |
| 1533.977794 | 61.7 |
| 1549.317572 | 59.5 |
| 1564.810747 | 59.6 |
| 1580.458855 | 59.3 |
| 1596.263443 | 60.3 |
| 1612.226078 | 61.4 |
| 1628.348338 | 63.2 |
| 1644.631822 | 62.5 |
| 1661.078140 | 61.6 |
| 1677.688921 | 64.5 |
| 1694.465811 | 62.3 |
| 1711.410469 | 62.2 |
| 1728.524573 | 64.8 |
| 1745.809819 | 67.3 |
| 1763.267917 | 65.4 |
| 1780.900597 | 64.9 |
| 1798.709603 | 66.6 |
| 1816.696699 | 65.5 |
| 1834.863666 | 63.0 |
| 1853.212302 | 62.5 |
| 1871.744425 | 60.9 |
| 1890.461869 | 61.8 |
| 1909.366488 | 62.5 |
| 1928.460153 | 62.3 |

| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 1947.744755 | 62.5 |
| 1967.222202 | 62.5 |
| 1986.894424 | 62.1 |
| 2006.763368 | 64.0 |
| 2026.831002 | 63.7 |
| 2047.099312 | 61.9 |
| 2067.570305 | 61.2 |
| 2088.246008 | 60.2 |
| 2109.128468 | 59.3 |
| 2130.219753 | 59.4 |
| 2151.521951 | 56.0 |
| 2173.037170 | 59.4 |
| 2194.767542 | 61.6 |
| 2216.715217 | 59.5 |
| 2238.882369 | 59.7 |
| 2261.271193 | 58.2 |
| 2283.883905 | 54.6 |
| 2306.722744 | 55.7 |
| 2329.789971 | 54.2 |
| 2353.087871 | 55.2 |
| 2376.618750 | 49.9 |
| 2400.384937 | 50.8 |
| 2424.388787 | 53.6 |
| 2448.632675 | 56.2 |
| 2473.119001 | 55.0 |
| 2497.850191 | 54.5 |
| 2522.828693 | 52.0 |
| 2548.056980 | 54.1 |
| 2573.537550 | 56.1 |
| 2599.272926 | 55.6 |
| 2625.265655 | 57.5 |
| 2651.518311 | 60.2 |
| 2678.033494 | 59.4 |
| 2704.813829 | 61.5 |
| 2731.861968 | 62.6 |
| 2759.180587 | 62.7 |
| 2786.772393 | 60.4 |
| 2814.640117 | 61.2 |
| 2842.786518 | 57.1 |
| 2871.214384 | 55.1 |
| 2899.926527 | 54.5 |
| 2928.925793 | 56.6 |
| 2958.215051 | 59.3 |
| 2987.797201 | 62.1 |
| 3017.675173 | 64.6 |
| 3047.851925 | 63.5 |
| 3078.330444 | 62.9 |
| 3109.113749 | 59.9 |
| 3140.204886 | 54.5 |
| 3171.606935 | 50.0 |
| 3203.323004 | 49.1 |
| 3235.356234 | 50.2 |
| 3267.709797 | 53.7 |
| 3300.386895 | 56.5 |
| 3333.390764 | 58.2 |
| 3366.724671 | 59.8 |
| 3400.391918 | 60.4 |
| 3434.395837 | 60.1 |
| 3468.739795 | 60.5 |
| 3503.427193 | 57.3 |
| 3538.461465 | 54.2 |
| 3573.846080 | 52.5 |
| 3609.584541 | 52.6 |
| 3645.680386 | 57.9 |
| 3682.137190 | 62.2 |
| 3718.958562 | 69.5 |
| 3756.148148 | 65.7 |

| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 3793.709629 | 59.8 |
| 3831.646725 | 54.5 |
| 3869.963193 | 49.5 |
| 3908.662824 | 46.4 |
| 3947.749453 | 49.8 |
| 3987.226947 | 53.6 |
| 4027.099217 | 57.1 |
| 4067.370209 | 58.4 |
| 4108.043911 | 59.7 |
| 4149.124350 | 59.3 |
| 4190.615594 | 56.9 |
| 4232.521750 | 52.0 |
| 4274.846967 | 48.1 |
| 4317.595437 | 49.7 |
| 4360.771391 | 54.6 |
| 4404.379105 | 59.2 |
| 4448.422896 | 65.8 |
| 4492.907125 | 62.6 |
| 4537.836196 | 52.3 |
| 4583.214558 | 48.8 |
| 4629.046704 | 50.6 |
| 4675.337171 | 51.9 |
| 4722.090543 | 54.9 |
| 4769.311448 | 61.0 |
| 4817.004562 | 63.0 |
| 4865.174608 | 55.7 |
| 4913.826354 | 50.2 |
| 4962.964618 | 51.4 |
| 5012.594264 | 54.0 |
| 5062.720206 | 50.4 |
| 5113.347409 | 55.5 |
| 5164.480883 | 61.0 |
| 5216.125691 | 56.0 |
| 5268.286948 | 49.4 |
| 5320.969818 | 48.4 |
| 5374.179516 | 48.8 |
| 5427.921311 | 50.6 |
| 5482.200524 | 53.8 |
| 5537.022530 | 55.7 |
| 5592.392755 | 50.2 |
| 5648.316682 | 47.4 |
| 5704.799849 | 53.9 |
| 5761.847848 | 50.9 |
| 5819.466326 | 52.5 |
| 5877.660989 | 55.8 |
| 5936.437599 | 45.5 |
| 5995.801975 | 46.2 |
| 6055.759995 | 53.5 |
| 6116.317595 | 44.9 |
| 6177.480771 | 49.4 |
| 6239.255579 | 52.9 |
| 6301.648135 | 53.1 |
| 6364.664616 | 48.8 |
| 6428.311262 | 47.5 |
| 6492.594375 | 49.1 |
| 6557.520318 | 53.9 |
| 6623.095522 | 54.9 |
| 6689.326477 | 49.9 |
| 6756.219742 | 48.4 |
| 6823.781939 | 65.0 |
| 6892.019758 | 50.5 |
| 6960.939956 | 37.3 |
| 7030.549355 | 39.6 |
| 7100.854849 | 48.8 |
| 7171.863398 | 57.2 |
| 7243.582032 | 49.4 |
| 7316.017852 | 52.6 |

| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 7389.178030 | 46.5 |
| 7463.069811 | 43.0 |
| 7537.700509 | 46.5 |
| 7613.077514 | 51.9 |
| 7689.208289 | 48.1 |
| 7766.100372 | 49.3 |
| 7843.761376 | 62.8 |
| 7922.198989 | 44.0 |
| 8001.420979 | 40.0 |
| 8081.435189 | 44.8 |
| 8162.249541 | 53.2 |
| 8243.872036 | 46.7 |
| 8326.310757 | 43.1 |
| 8409.573864 | 45.1 |
| 8493.669603 | 55.5 |
| 8578.606299 | 45.0 |
| 8664.392362 | 45.9 |
| 8751.036286 | 47.7 |
| 8838.546648 | 46.9 |
| 8926.932115 | 46.3 |
| 9016.201436 | 44.9 |
| 9106.363450 | 47.1 |
| 9197.427085 | 45.8 |
| 9289.401356 | 45.3 |
| 9382.295369 | 40.9 |
| 9476.118323 | 44.8 |
| 9570.879506 | 38.6 |
| 9666.588301 | 45.0 |
| 9763.254184 | 43.9 |
| 9860.886726 | 46.3 |
| 9959.495593 | 45.6 |
| 10059.090549 | 43.5 |
| 10159.681455 | 40.0 |
| 10261.278269 | 41.1 |
| 10363.891052 | 42.2 |
| 10467.529963 | 43.5 |
| 10572.205262 | 45.5 |
| 10677.927315 | 41.8 |
| 10784.706588 | 40.5 |
| 10892.553654 | 44.4 |
| 11001.479190 | 42.8 |
| 11111.493982 | 46.1 |
| 11222.608922 | 49.4 |
| 11334.835011 | 51.8 |
| 11448.183361 | 52.0 |
| 11562.665195 | 47.8 |
| 11678.291847 | 45.4 |
| 11795.074766 | 49.2 |
| 11913.025513 | 51.2 |
| 12032.155768 | 71.0 |
| 12152.477326 | 54.3 |
| 12274.002099 | 63.9 |
| 12396.742120 | 57.9 |
| 12520.709541 | 52.6 |
| 12645.916637 | 47.5 |
| 12772.375803 | 50.7 |
| 12900.099561 | 48.9 |
| 13029.100557 | 48.6 |
| 13159.391562 | 49.3 |
| 13290.985478 | 47.0 |
| 13423.895333 | 48.1 |
| 13558.134286 | 46.2 |
| 13693.715629 | 47.7 |
| 13830.652785 | 50.9 |
| 13968.959313 | 53.2 |
| 14108.648906 | 52.9 |
| 14249.735395 | 55.4 |
| 14392.232749 | 59.4 |

| Frequency (MHz) | Attenuation (dB) |
|-----------------|------------------|
| 14536.155077 | 57.6 |
| 14681.516628 | 61.9 |
| 14828.331794 | 61.8 |
| 14976.615112 | 74.2 |
| 15126.381263 | 74.6 |
| 15277.645076 | 58.3 |
| 15430.421526 | 64.1 |
| 15584.725742 | 64.0 |
| 15740.572999 | 71.7 |
| 15897.978729 | 72.3 |
| 16056.958516 | 81.7 |
| 16217.528101 | 80.8 |
| 16379.703382 | 79.8 |
| 16543.500416 | 75.3 |
| 16708.935420 | 72.9 |
| 16876.024775 | 64.3 |
| 17044.785022 | 60.4 |
| 17215.232873 | 58.5 |
| 17387.385201 | 56.2 |
| 17561.259053 | 59.5 |
| 17736.871644 | 59.9 |
| 17914.240360 | 61.5 |
| 18093.382764 | 62.9 |
| 18274.316592 | 61.5 |
| 18457.059757 | 54.9 |
| 18641.630355 | 64.8 |
| 18828.046659 | 50.3 |
| 19016.327125 | 46.2 |
| 19206.490396 | 50.3 |
| 19398.555300 | 45.7 |
| 19592.540853 | 52.7 |
| 19788.466262 | 55.7 |
| 19986.350925 | 56.1 |
| 20000.000000 | 53.4 |

5. List of test instruments

Shield attenuation test

| INV # | Test equipment | Type | Manufacturer | S/N # |
|--------|---------------------------|-----------------|-----------------|------------|
| #A 220 | Signal Generator | SML03 | R&S | 004/5746 |
| #A27-1 | RF-Coaxial-Cable (N-N/3) | PE302-72 | Pasternack | 1306 |
| #A220 | Signal Generator | SMR20,10M-20GHz | Rohde & Schwarz | 834671/004 |
| #A16 | RF-Coaxial-Cable (N-N/3) | PE302-72 | Pasternack | 1307 |
| #A 253 | RF-Coaxial -Cable | 16301 | Astrolab | 32061-3m |
| #A257 | LogPerAntenna | UHALP9108A | Schwarzbeck | 0756 |
| #A258 | Log PerAntenna | EM6950 | Electro-Metrics | 705 |
| #A66 | Biconical Antenna | BBA9160 | Schwarzbeck | 2315 |
| #A67 | Biconical Antenna | VHBC9133 | Schwarzbeck | 070 |
| #A138 | Double Ridge Horn Antenna | BBHA9120D | Schwarzbeck | 9120D-374 |
| #A 263 | Double Ridge Horn Antenna | BBHA9120D | Schwarzbeck | 9120D-1532 |
| #A 133 | RF Power Meter | 4231 | Boonton | 86801 |

6. Photo E. u. T.

Sample size 600 x 400mm

