

Test data, continued

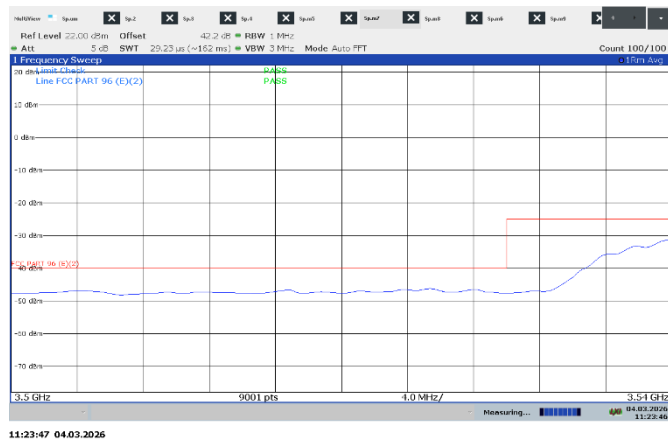


Figure 7.4-19: C. OOB sp. EMI, below 3540 MHz, 1CC 40 MHz, low ch

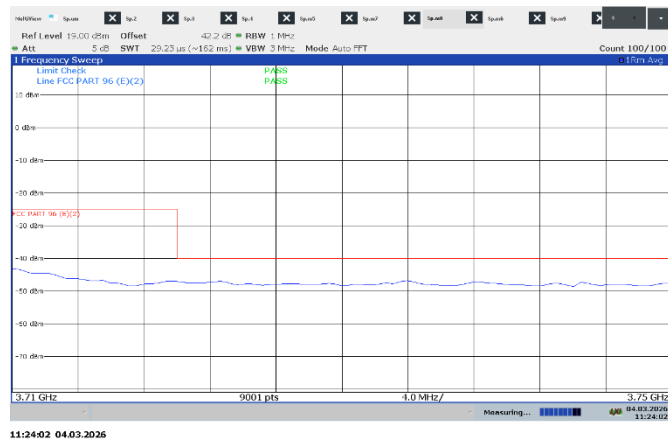


Figure 7.4-20: C. OOB sp. EMI, above 3710 MHz, 1CC 40 MHz, low ch

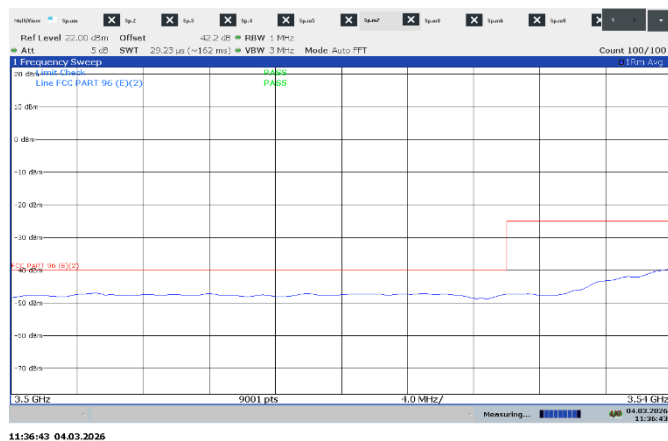


Figure 7.4-21: C. OOB sp. EMI, below 3540 MHz, 1CC 40 MHz, mid ch

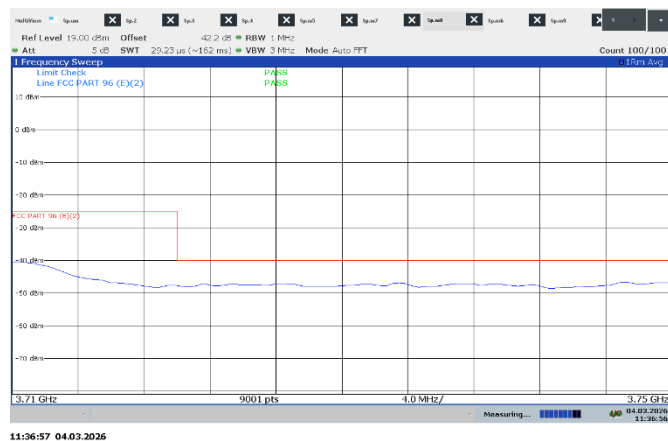


Figure 7.4-22: C. OOB sp. emissions, above 3710 MHz, 1CC 40 MHz, mid ch

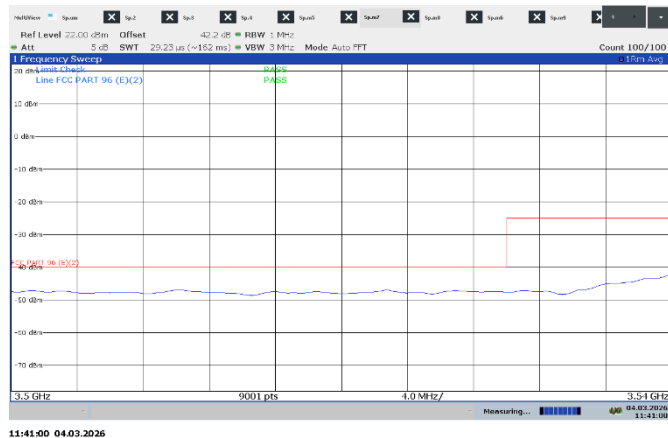


Figure 7.4-23: C. OOB sp. EMI, below 3540 MHz, 1CC 40 MHz, high ch

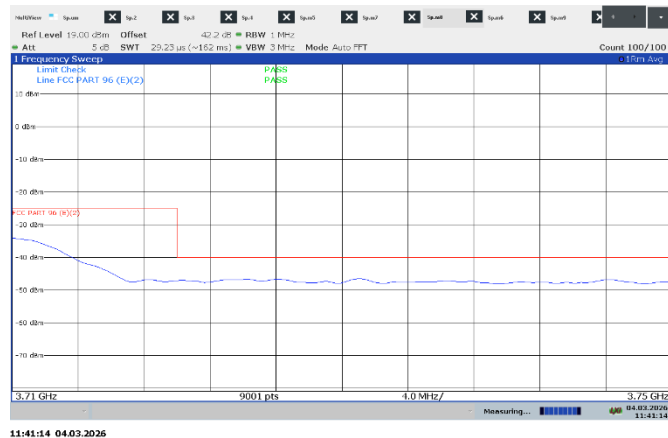
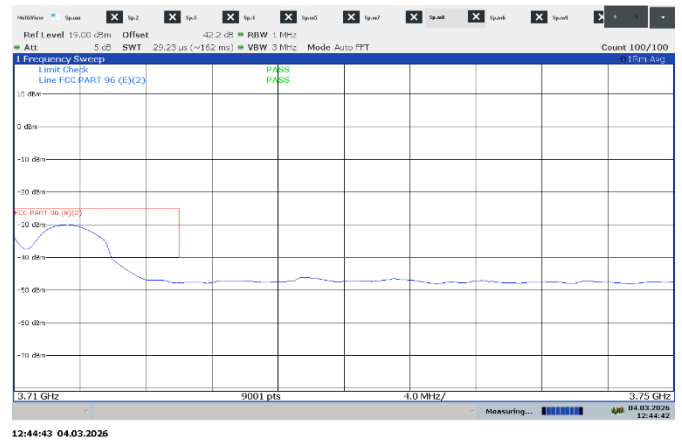
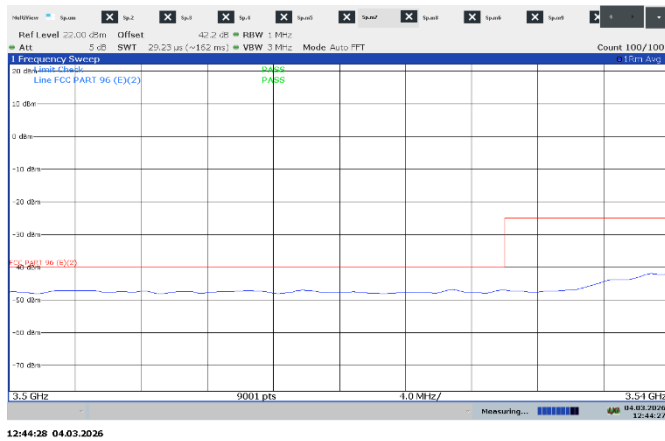
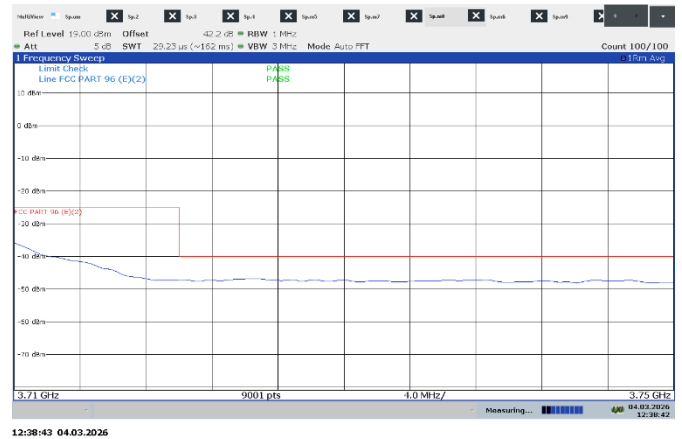
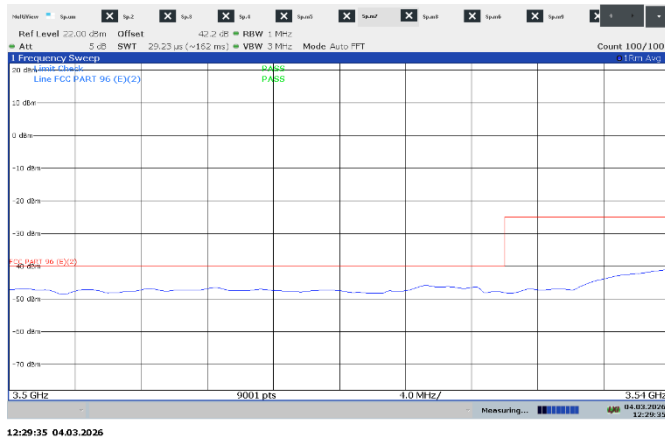
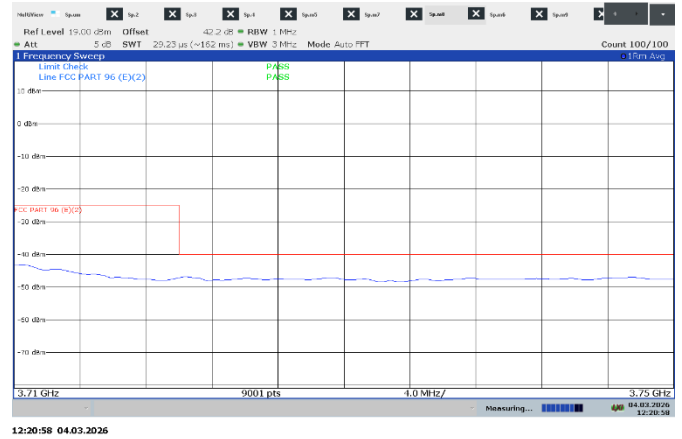
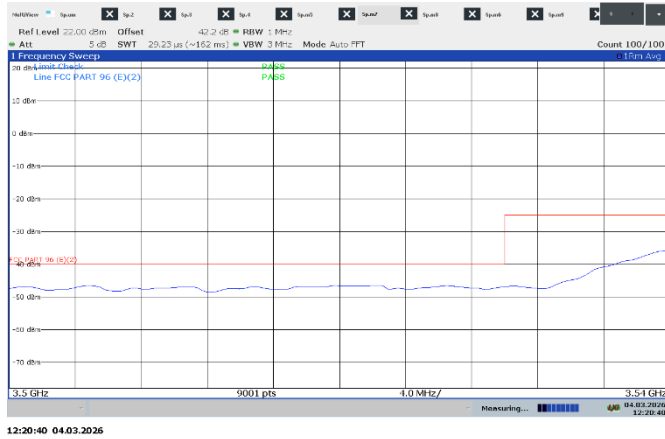


Figure 7.4-24: C. OOB sp. EMI, above 3710 MHz, 1CC 40 MHz, high ch

Test data, continued



Test data, continued

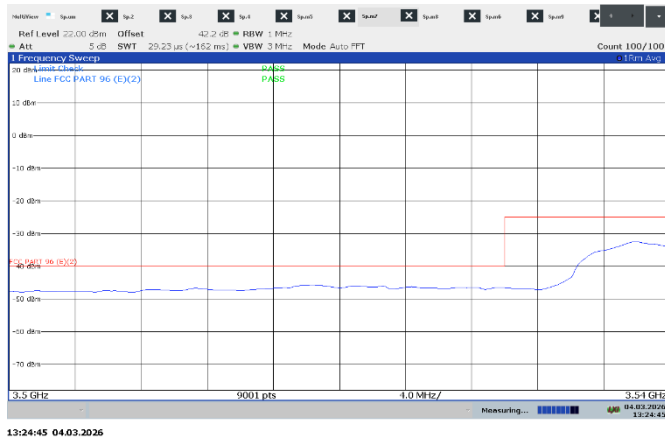


Figure 7.4-31: C. OOB sp. EMI, below 3540 MHz, 1CC 80 MHz, low ch

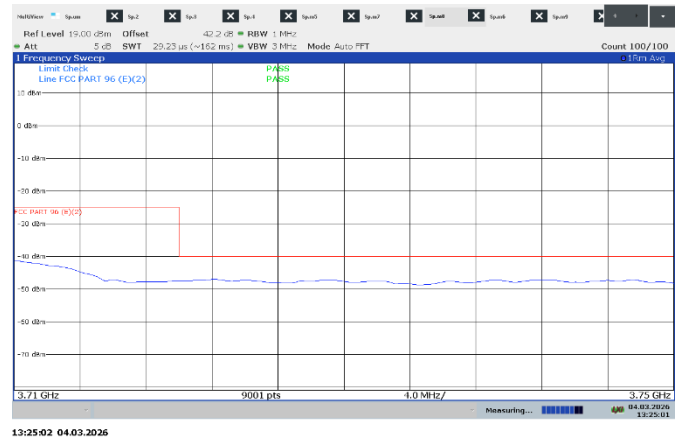


Figure 7.4-32: C. OOB sp. EMI, above 3710 MHz, 1CC 80 MHz, low ch

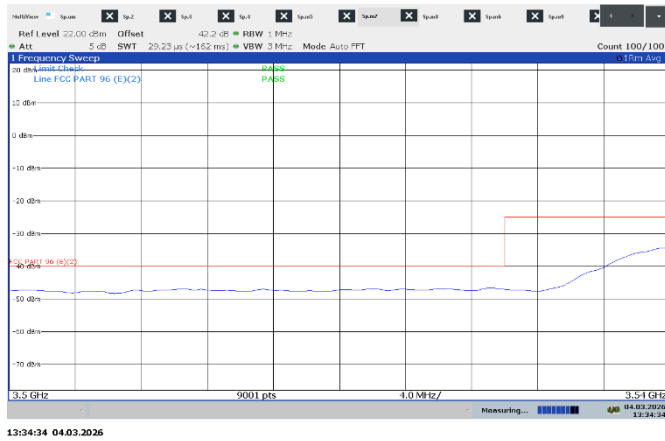


Figure 7.4-33: C. OOB sp. EMI, below 3540 MHz, 1CC 80 MHz, mid ch

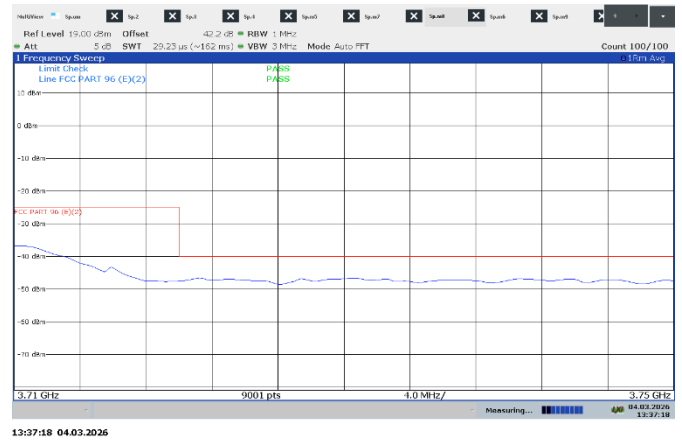


Figure 7.4-34: C. OOB sp. EMI, above 3710 MHz, 1CC 80 MHz, mid ch

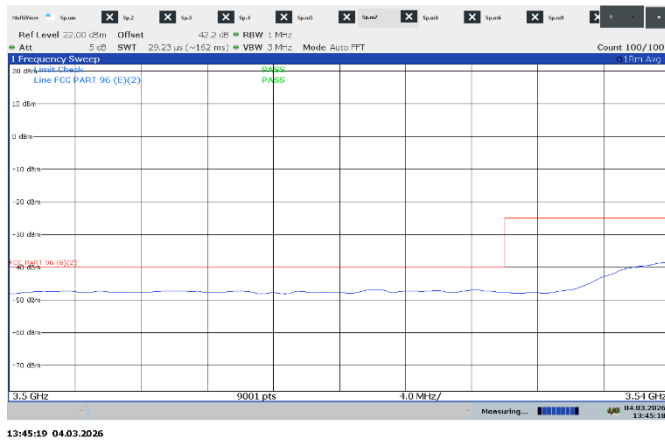


Figure 7.4-35: C. OOB sp. EMI, below 3540 MHz, 1CC 80 MHz, high ch

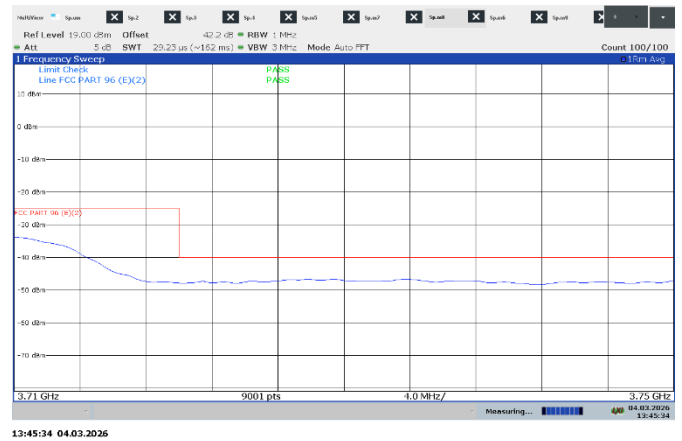


Figure 7.4-36: C. OOB sp. EMI, above 3710 MHz, 1CC 80 MHz, high ch

Test data, continued

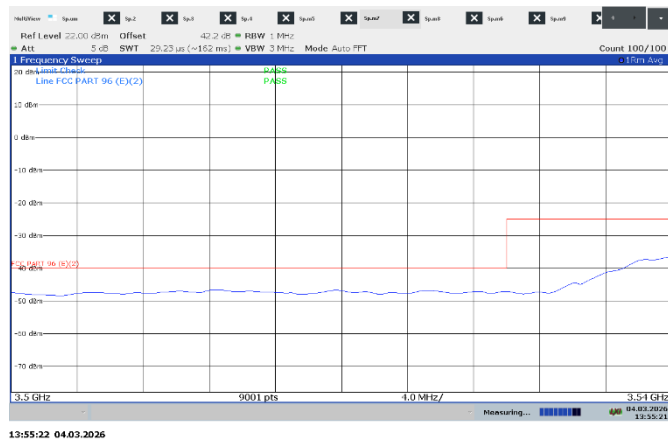


Figure 7.4-37: C. OOB sp. EMI, below 3540 MHz, 1CC 100 MHz, low ch

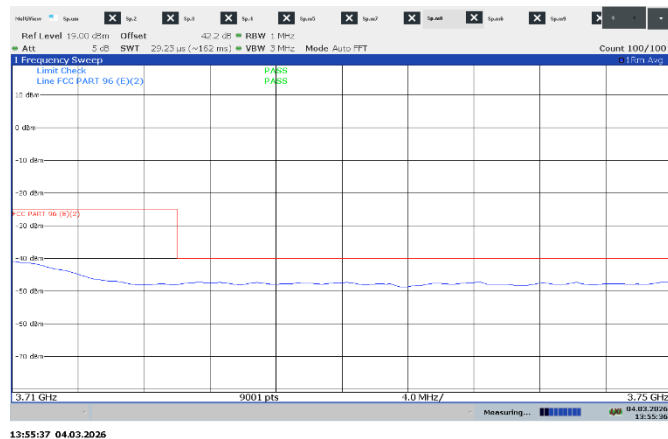


Figure 7.4-38: C. OOB sp. EMI, above 3710 MHz, 1CC 100 MHz, low ch

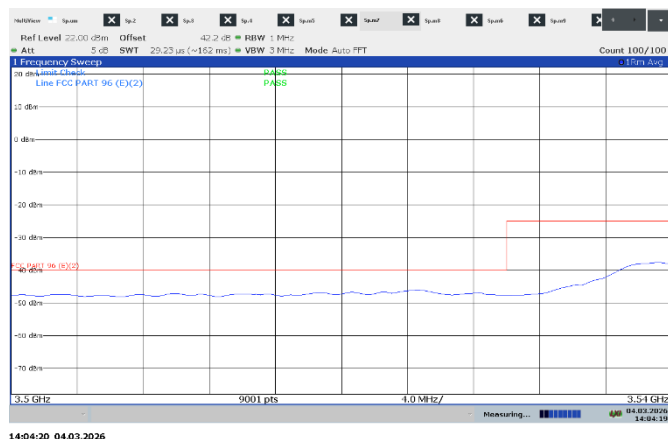


Figure 7.4-39: C. OOB sp. EMI, below 3540 MHz, 1CC 100 MHz, mid ch

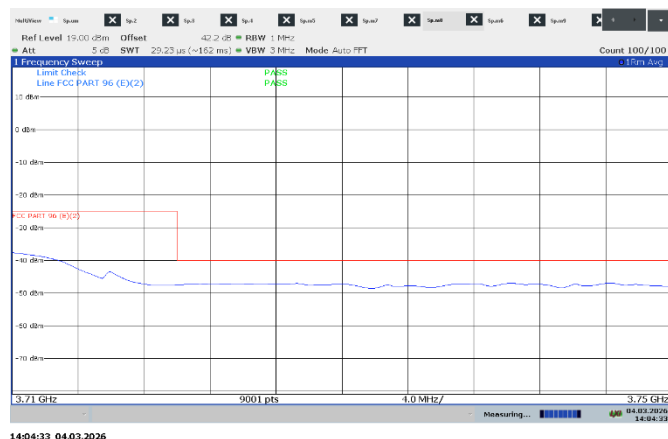


Figure 7.4-40: C. OOB sp. EMI, above 3710 MHz, 1CC 100 MHz, mid ch

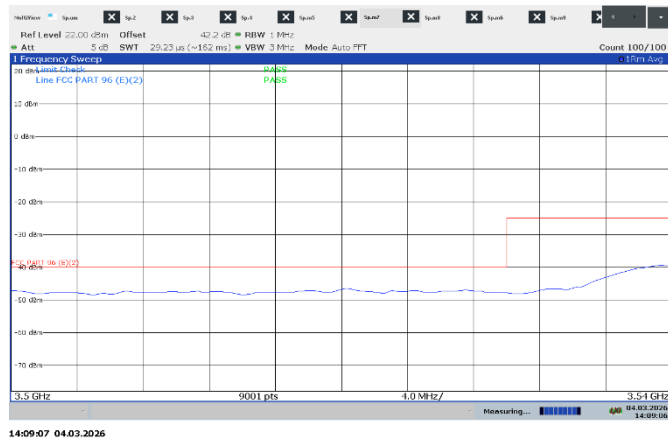


Figure 7.4-41: C. OOB sp. EMI, below 3540 MHz, 1CC 100 MHz, high ch

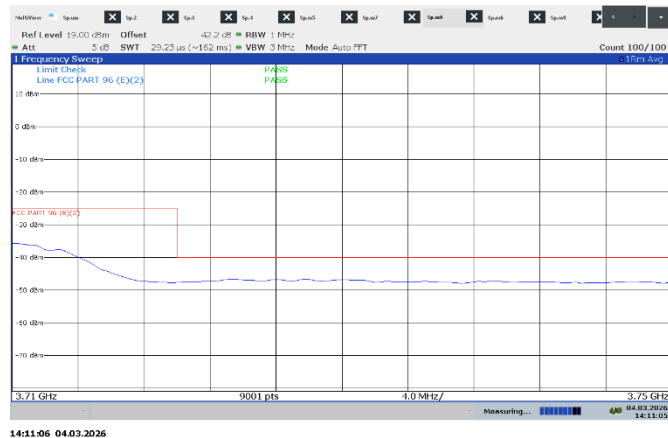


Figure 7.4-42: C. OOB sp. EMI, above 3710 MHz, 1CC 100 MHz, high ch

Test data, continued

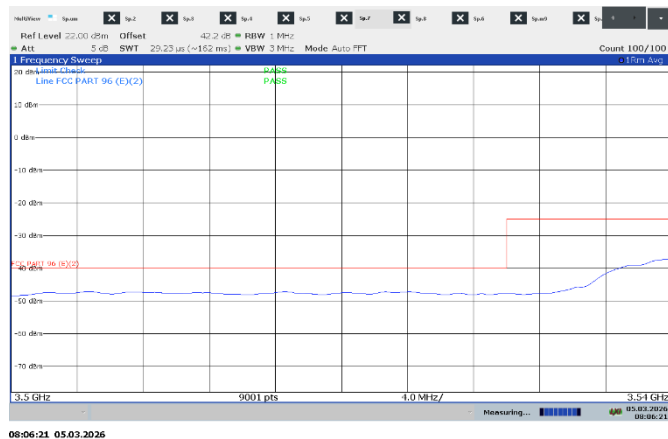


Figure 7.4-43: C. OOB sp. EMI, below 3540 MHz, 2CC 10+10 MHz, low ch

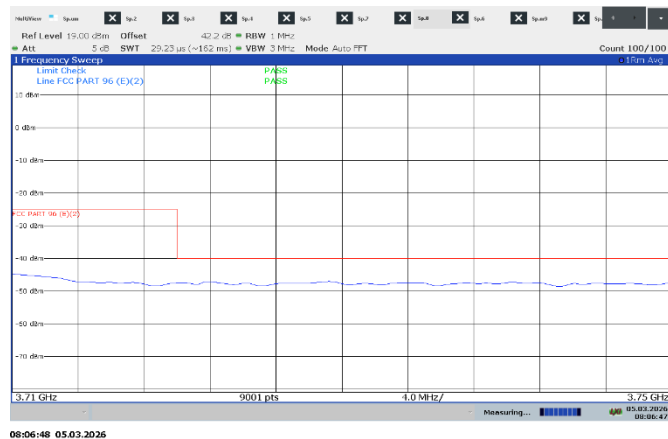


Figure 7.4-44: C. OOB sp. EMI, above 3710 MHz, 2CC 10+10 MHz, low ch

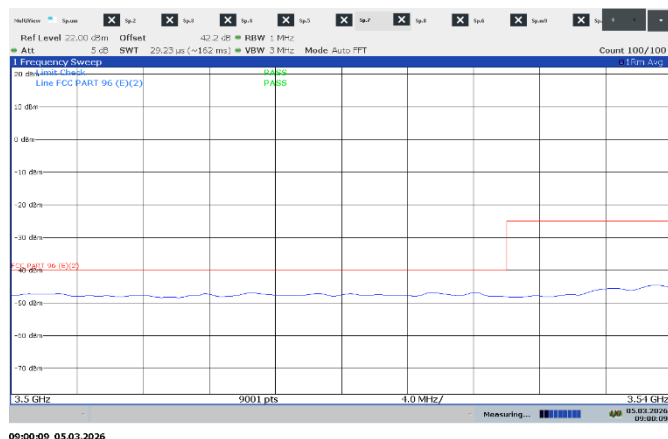


Figure 7.4-45: C. OOB sp. EMI, below 3540 MHz, 2CC 10+10 MHz, mid ch

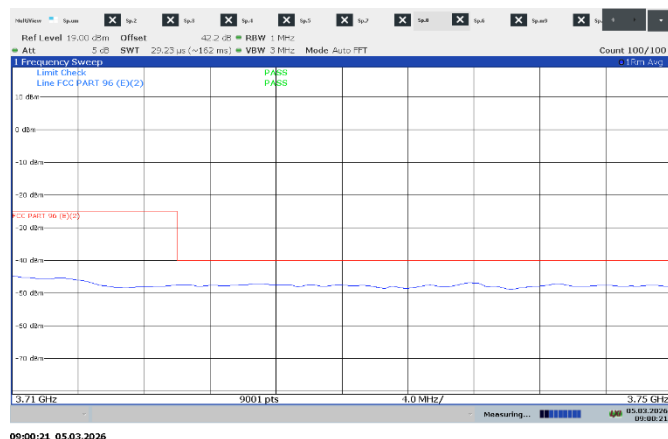


Figure 7.4-46: C. OOB sp. EMI, above 3710 MHz, 2CC 10+10 MHz, mid ch

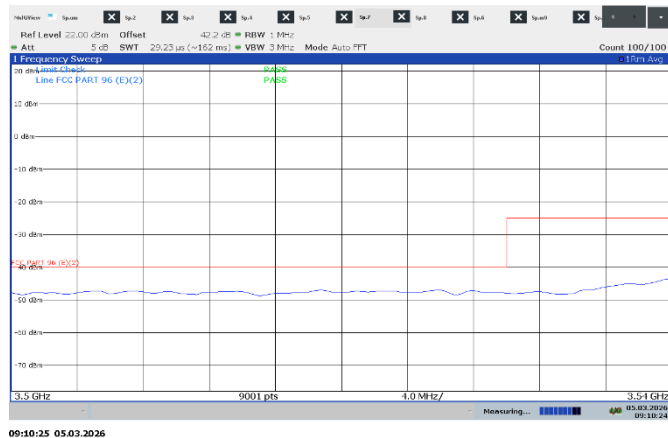


Figure 7.4-47: C. OOB sp. EMI, below 3540 MHz, 2CC 10+10 MHz, high ch

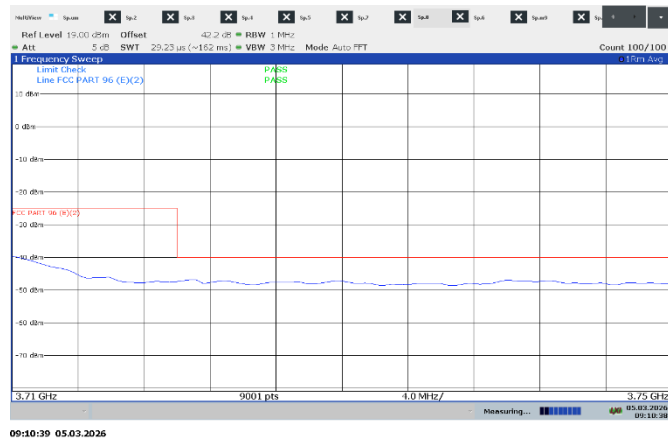
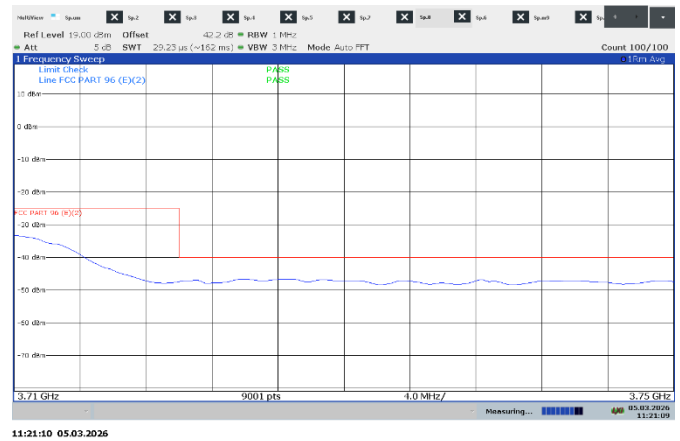
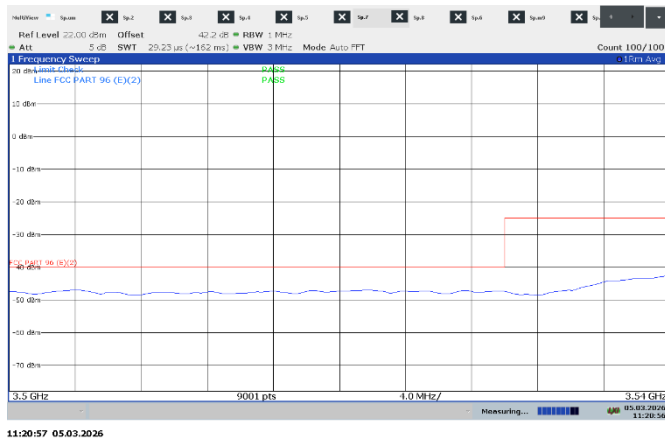
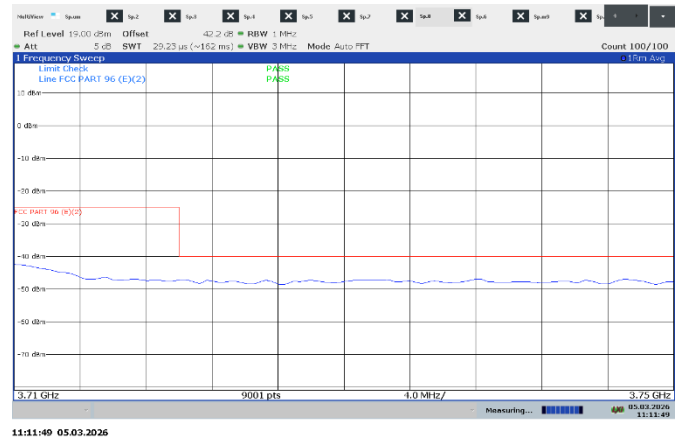
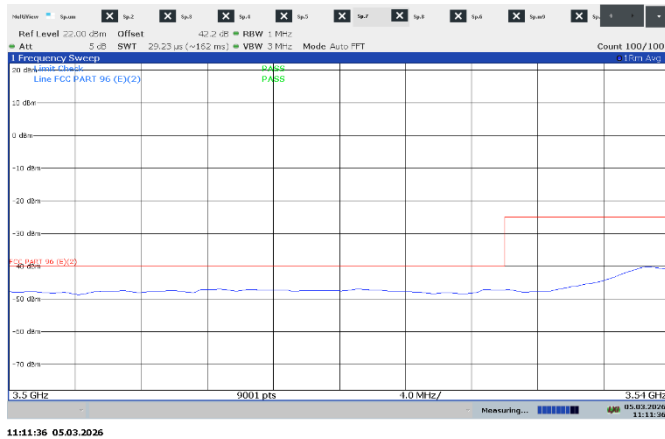
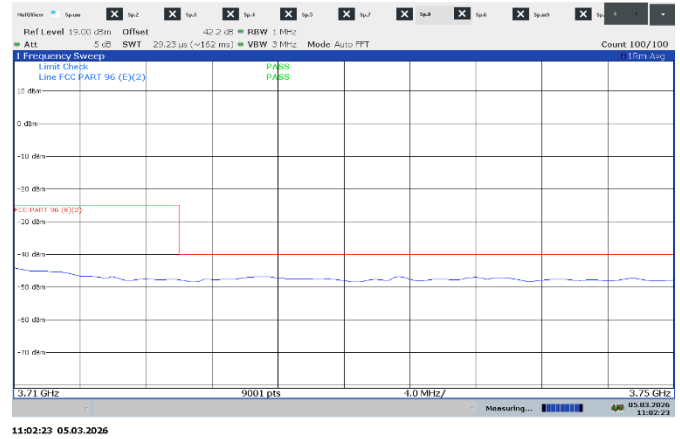
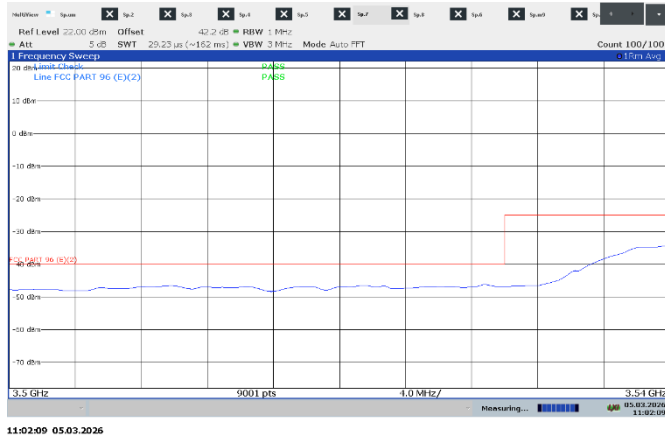


Figure 7.4-48: C. OOB sp. EMI, above 3710 MHz, 2CC 10+10 MHz, high ch

Test data, continued



Test data, continued

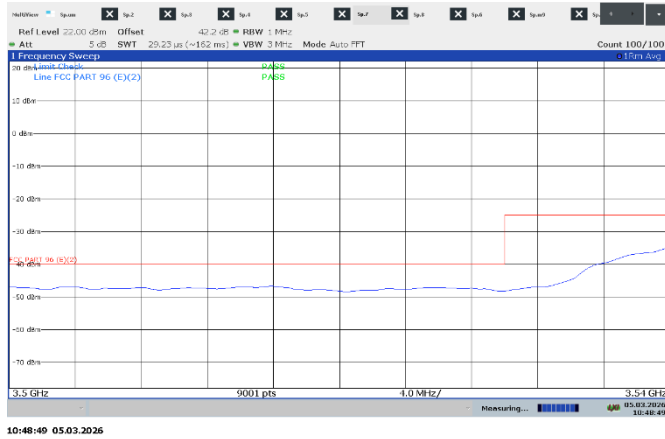


Figure 7.4-55: C. OOB sp. EMI, below 3540 MHz, 2CC 20+20 MHz, low ch

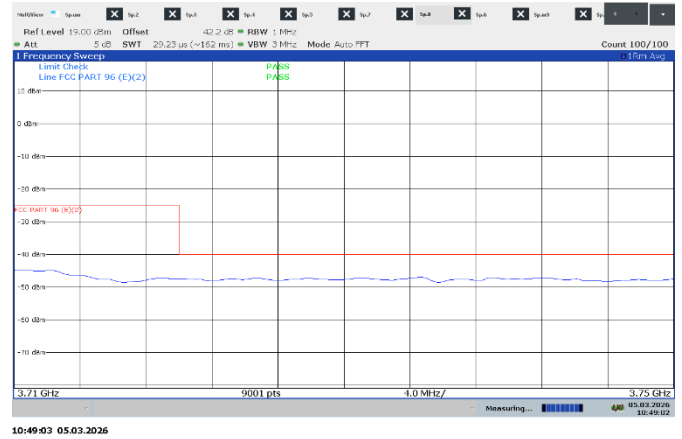


Figure 7.4-56: C. OOB sp. EMI, above 3710 MHz, 2CC 20+20 MHz, low ch

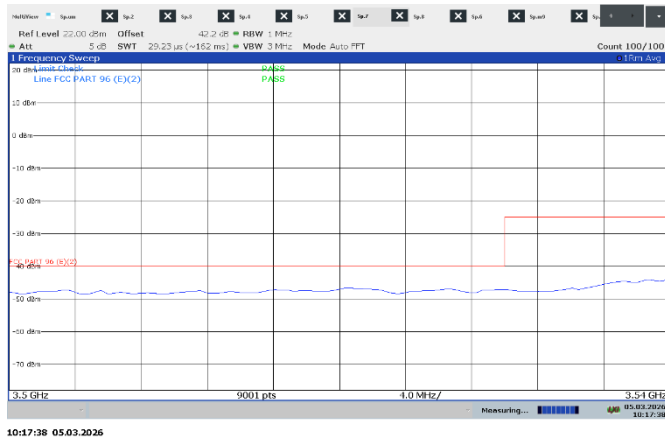


Figure 7.4-57: C. OOB sp. EMI, below 3540 MHz, 2CC 20+20 MHz, mid ch

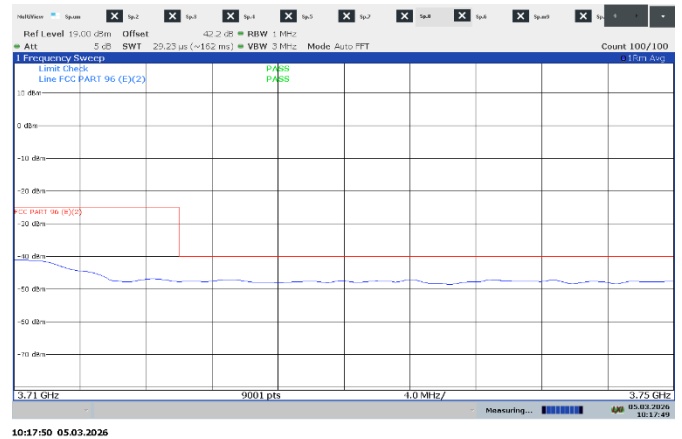


Figure 7.4-58: C. OOB sp. EMI, above 3710 MHz, 2CC 20+20 MHz, mid ch

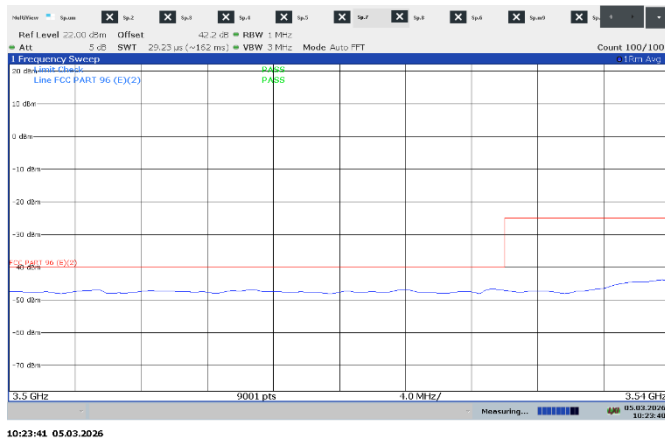


Figure 7.4-59: C. OOB sp. EMI, below 3540 MHz, 2CC 20+20 MHz, high ch

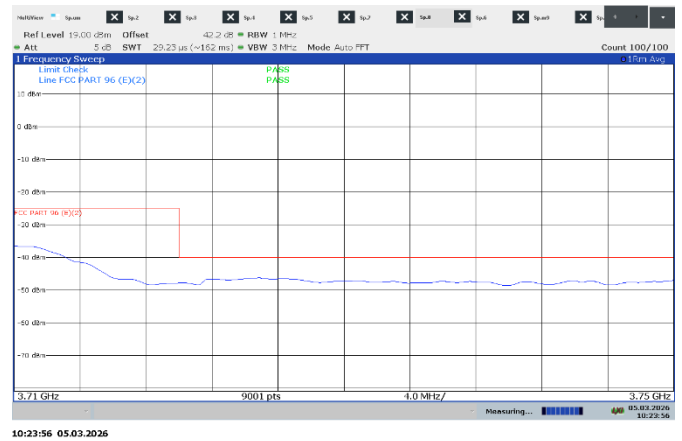


Figure 7.4-60: C. OOB sp. EMI, above 3710 MHz, 2CC 20+20 MHz, high ch

Test data, continued

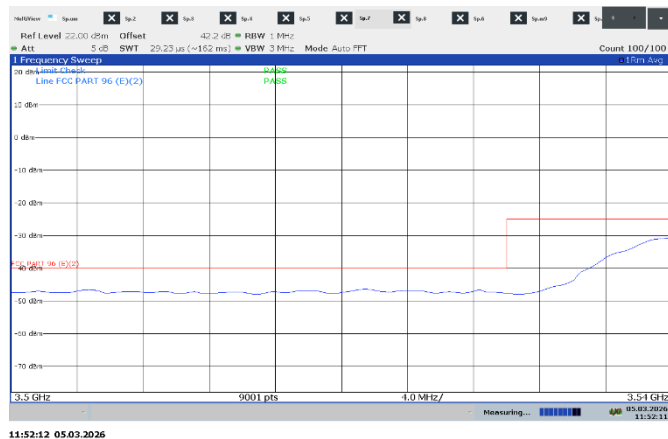


Figure 7.4-61: C. OOB sp. EMI, below 3540 MHz, 2CC 20+30 MHz, low ch

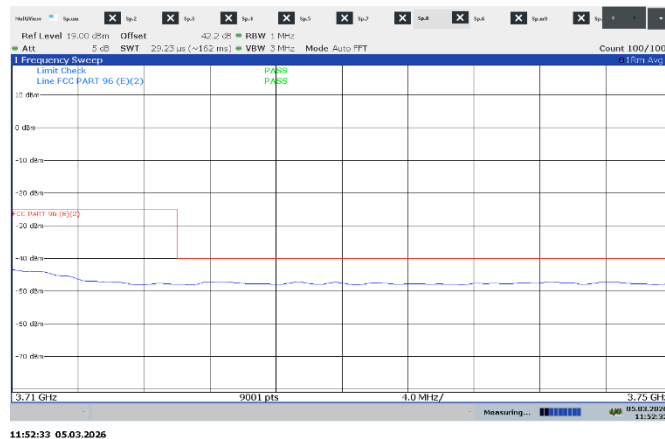


Figure 7.4-62: C. OOB sp. EMI, above 3710 MHz, 2CC 20+30 MHz, low ch

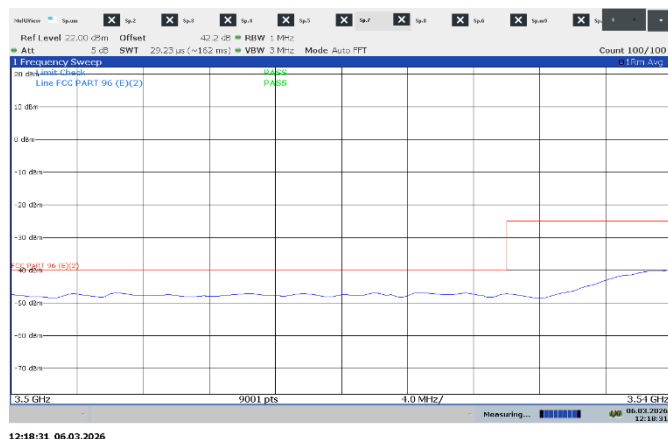


Figure 7.4-63: C. OOB sp. EMI, below 3540 MHz, 2CC 20+30 MHz, mid ch

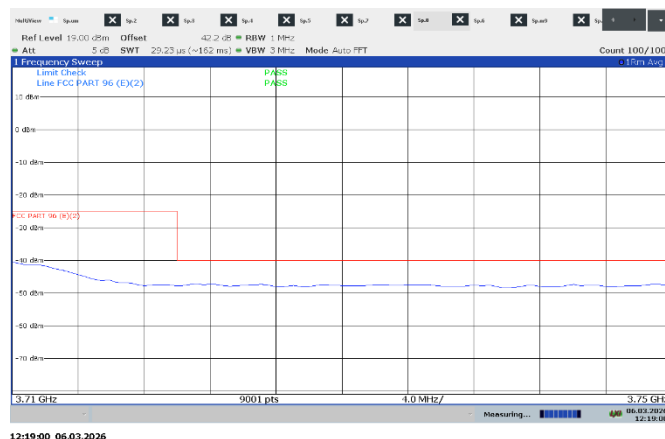


Figure 7.4-64: C. OOB sp. EMI, above 3710 MHz, 2CC 20+30 MHz, mid ch

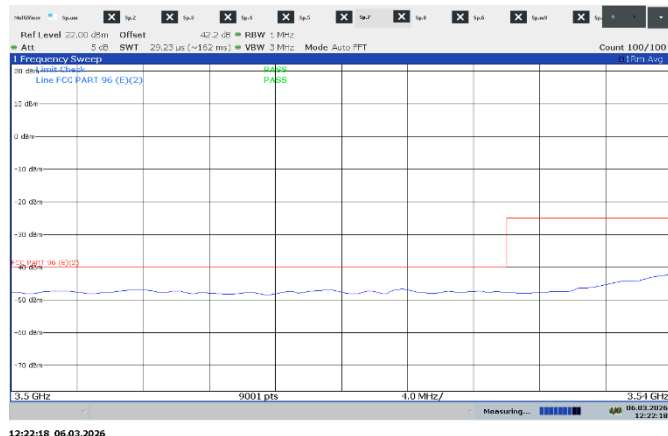


Figure 7.4-65: C. OOB sp. EMI, below 3540 MHz, 2CC 20+30 MHz, high ch

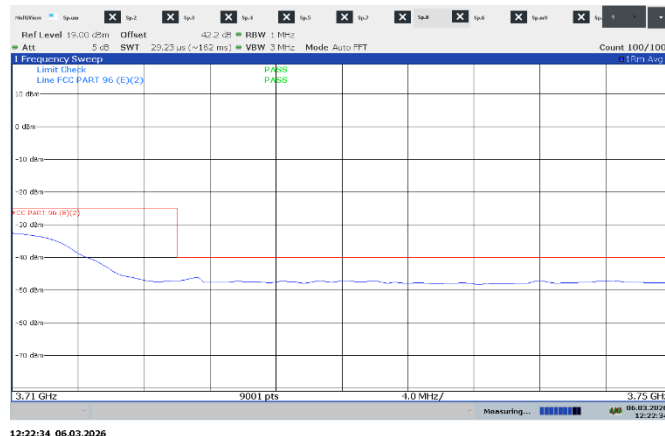


Figure 7.4-66: C. OOB sp. EMI, above 3710 MHz, 2CC 20+30 MHz, high ch

Test data, continued

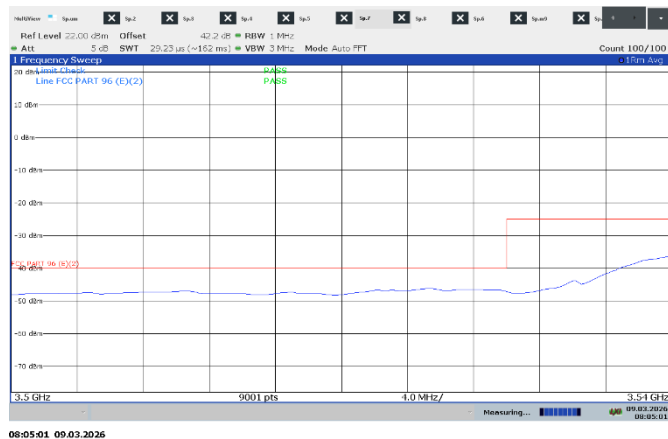


Figure 7.4-67: C. OOB sp. EMI, below 3540 MHz, 2CC 20+40 MHz, low ch

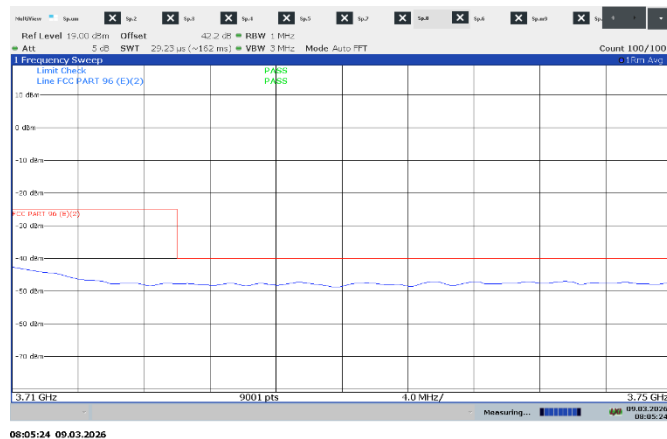


Figure 7.4-68: C. OOB sp. EMI, above 3710 MHz, 2CC 20+40 MHz, low ch

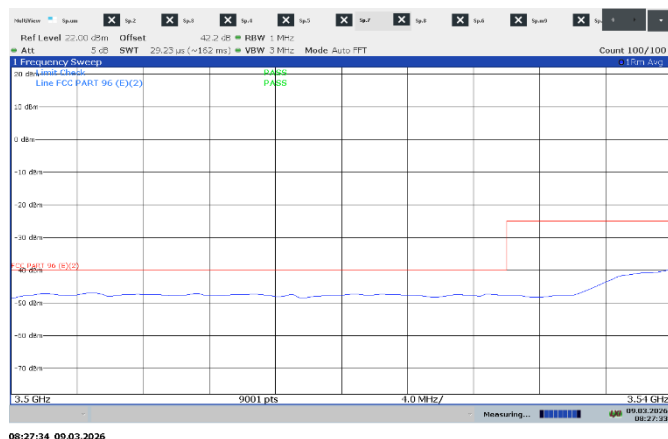


Figure 7.4-69: C. OOB sp. EMI, below 3540 MHz, 2CC 20+40 MHz, mid ch

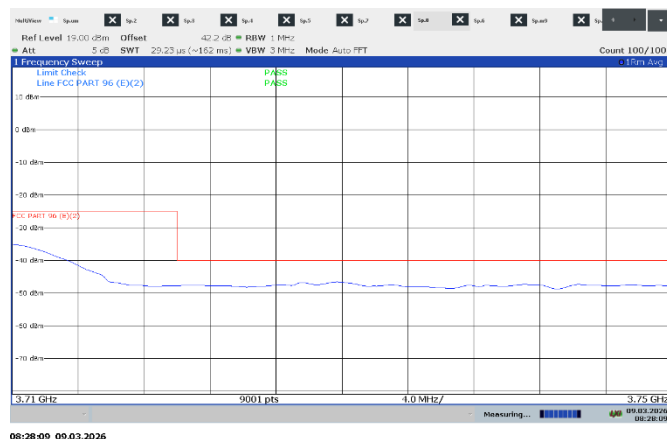


Figure 7.4-70: C. OOB sp. EMI, above 3710 MHz, 2CC 20+40 MHz, mid ch

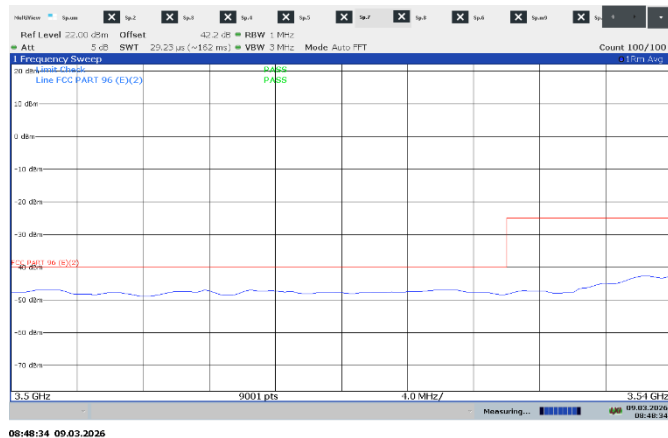


Figure 7.4-71: C. OOB sp. EMI, below 3540 MHz, 2CC 20+40 MHz, high ch

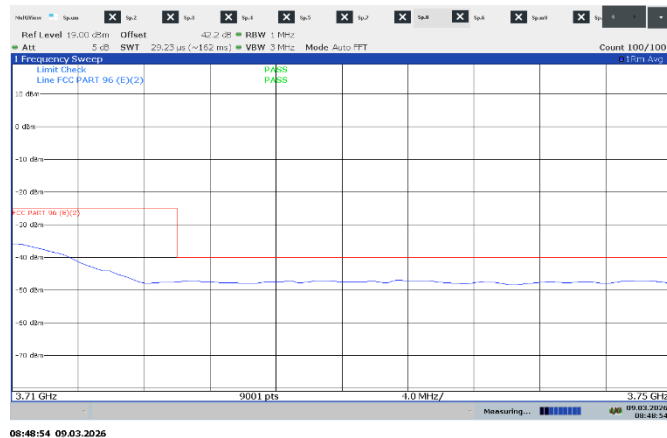


Figure 7.4-72: C. OOB sp. EMI, above 3710 MHz, 2CC 20+40 MHz, high ch

Test data, continued

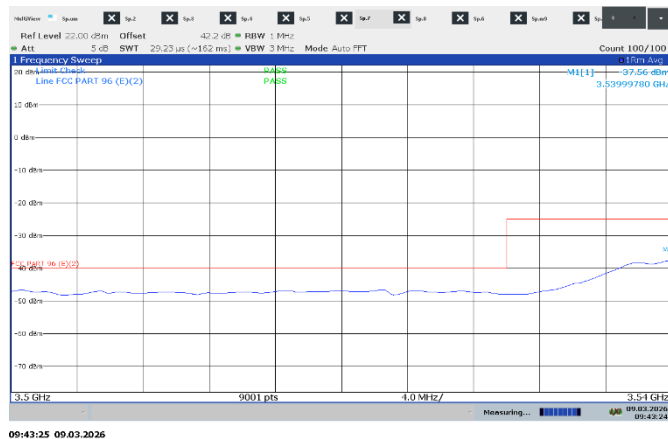


Figure 7.4-73: C. OOB sp. EMI, below 3540 MHz, 2CC 20+60 MHz, low ch

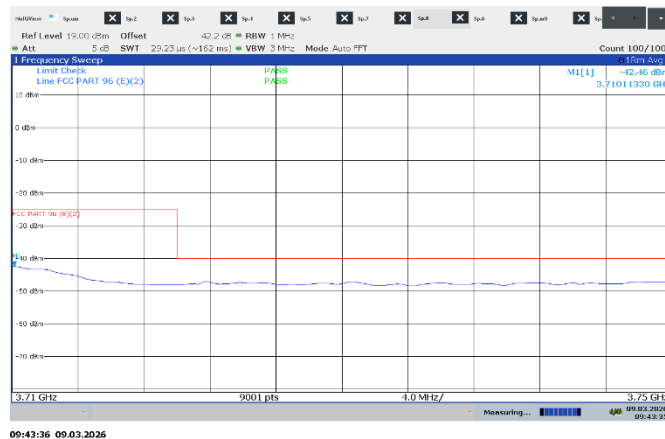


Figure 7.4-74: C. OOB sp. EMI, above 3710 MHz, 2CC 20+60 MHz, low ch

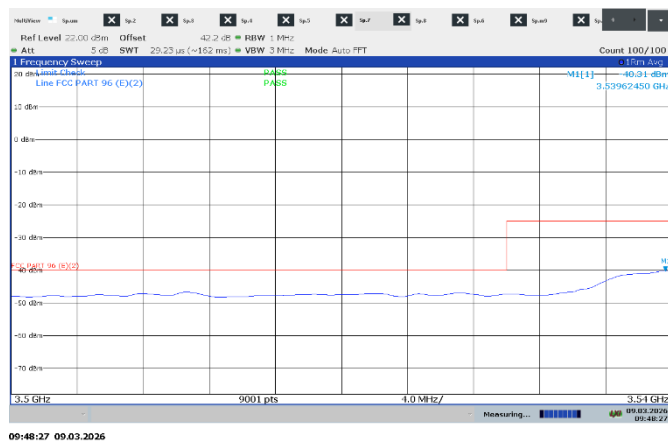


Figure 7.4-75: C. OOB sp. EMI, below 3540 MHz, 2CC 20+60 MHz, mid ch

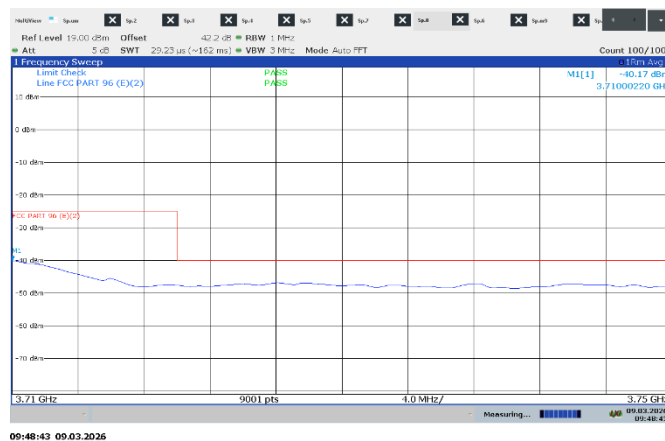


Figure 7.4-76: C. OOB sp. EMI, above 3710 MHz, 2CC 20+60 MHz, mid ch

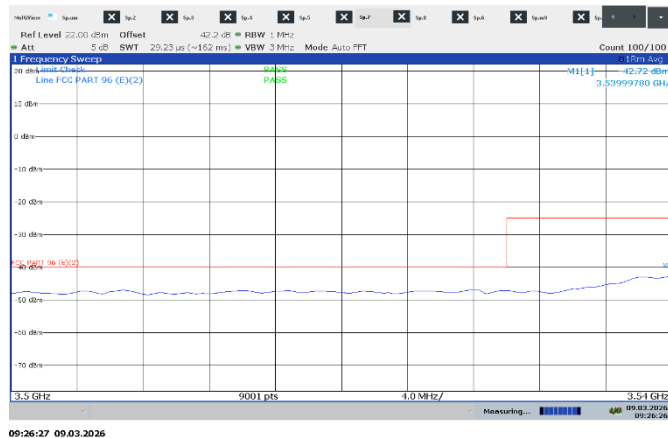


Figure 7.4-77: C. OOB sp. EMI, below 3540 MHz, 2CC 20+60 MHz, high ch

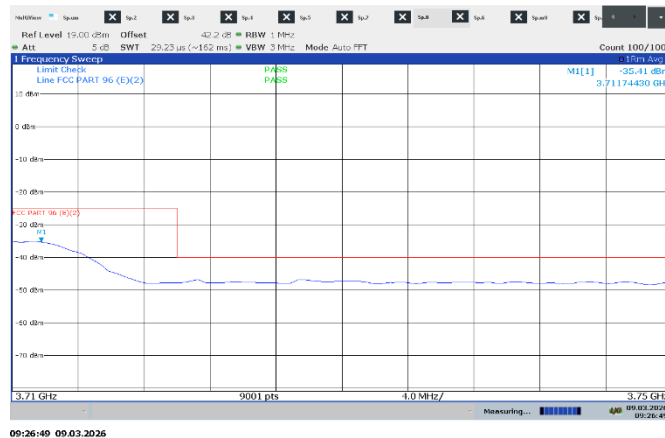


Figure 7.4-78: C. OOB sp. EMI, above 3710 MHz, 2CC 20+60 MHz, high ch

Test data, continued

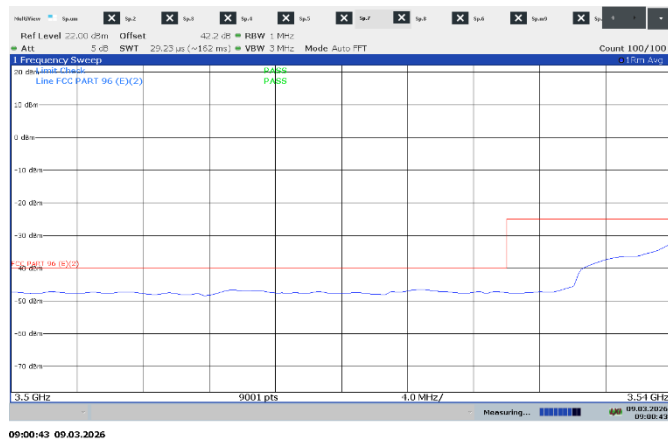


Figure 7.4-79: C. OOB sp. EMI, below 3540 MHz, 2CC 40+40 MHz, low ch

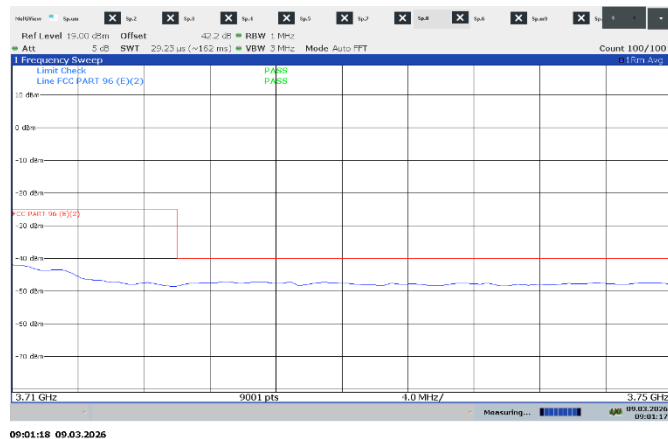


Figure 7.4-80: C. OOB sp. EMI, above 3710 MHz, 2CC 40+40 MHz, low ch

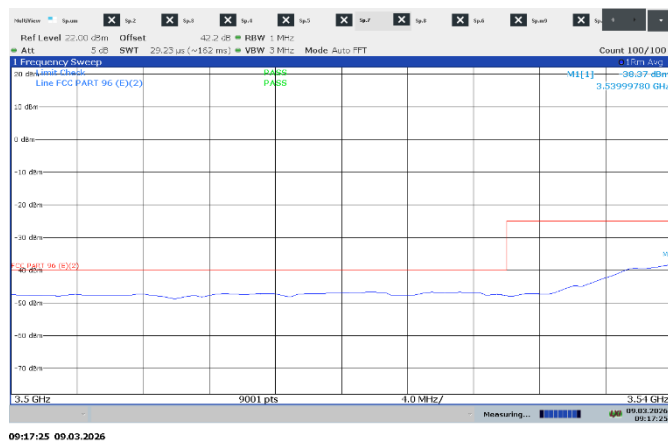


Figure 7.4-81: C. OOB sp. EMI, below 3540 MHz, 2CC 40+40 MHz, mid ch

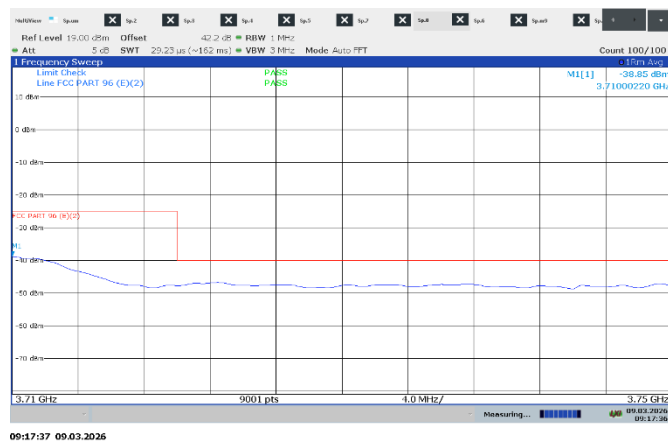


Figure 7.4-82: C. OOB sp. EMI, above 3710 MHz, 2CC 40+40 MHz, mid ch

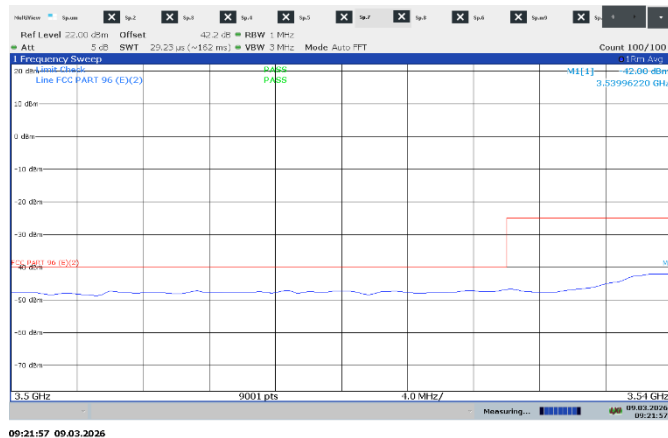


Figure 7.4-83: C. OOB sp. EMI, below 3540 MHz, 2CC 40+40 MHz, high ch

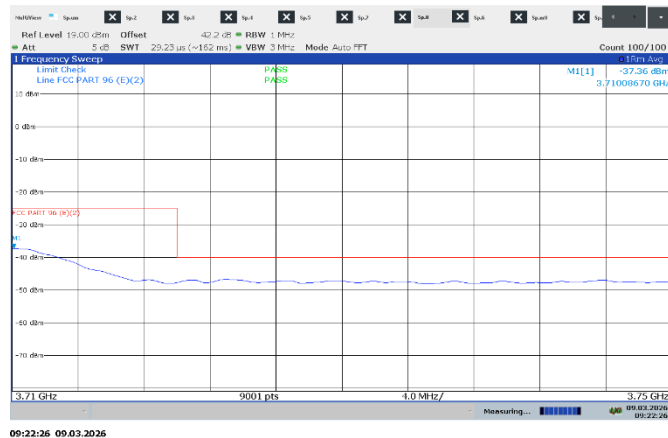


Figure 7.4-84: C. OOB sp. EMI, above 3710 MHz, 2CC 40+40 MHz, high ch

Test data, continued

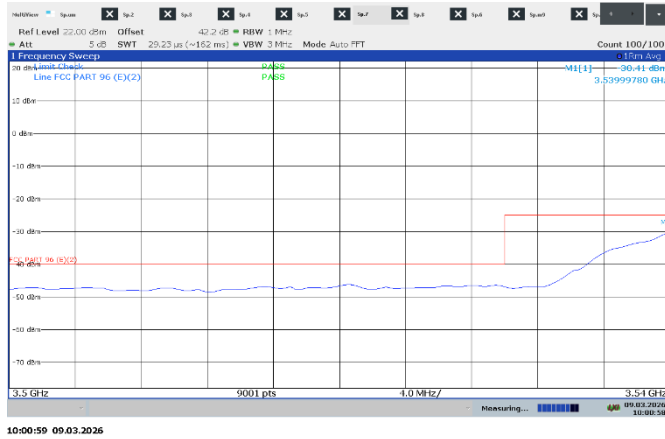


Figure 7.4-85: C. OOB sp. EMI, below 3540 MHz, 3CC 10+10+10 MHz, low ch

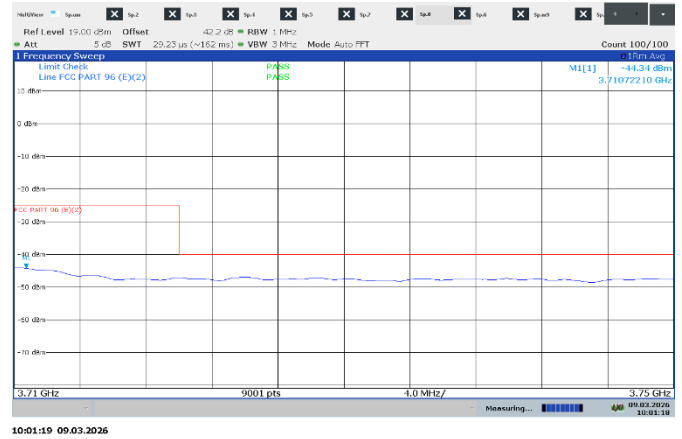


Figure 7.4-86: C. OOB sp. EMI, above 3710 MHz, 3CC 10+10+10 MHz, low ch

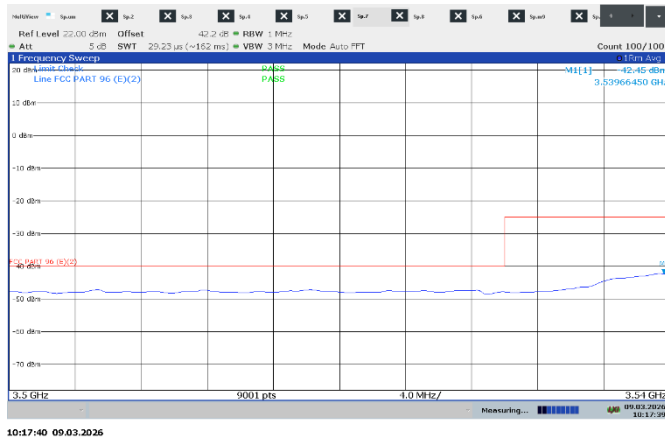


Figure 7.4-87: C. OOB sp. EMI, below 3540 MHz, 3CC 10+10+10 MHz, mid ch

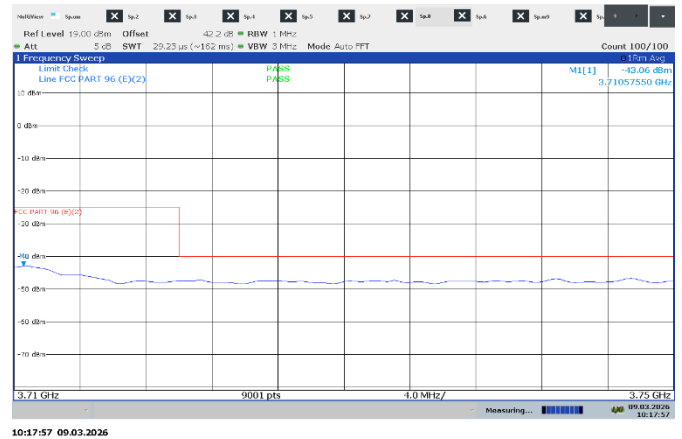


Figure 7.4-88: C. OOB sp. EMI, above 3710 MHz, 3CC 10+10+10 MHz, mid ch

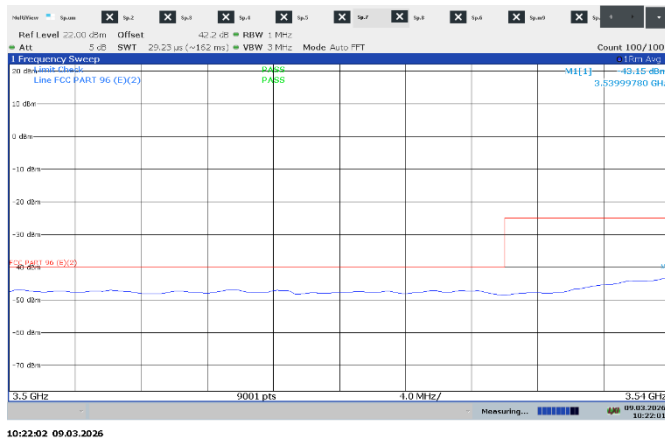


Figure 7.4-89: C. OOB sp. EMI, below 3540 MHz, 3CC 10+10+10 MHz, high c.

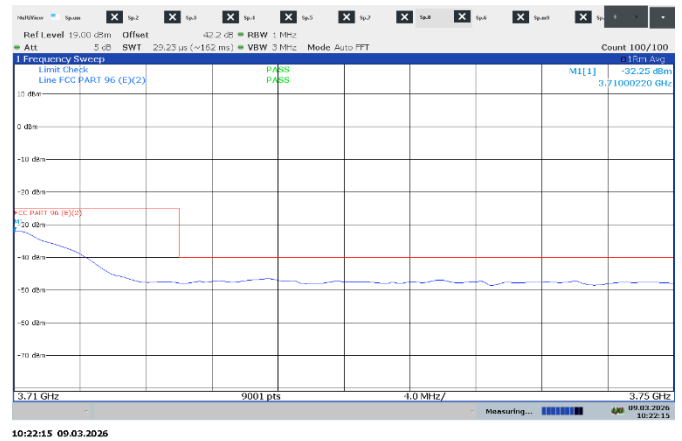


Figure 7.4-90: C. OOB sp. EMI, above 3710 MHz, 3CC 10+10+10 MHz, high c.

Test data, continued

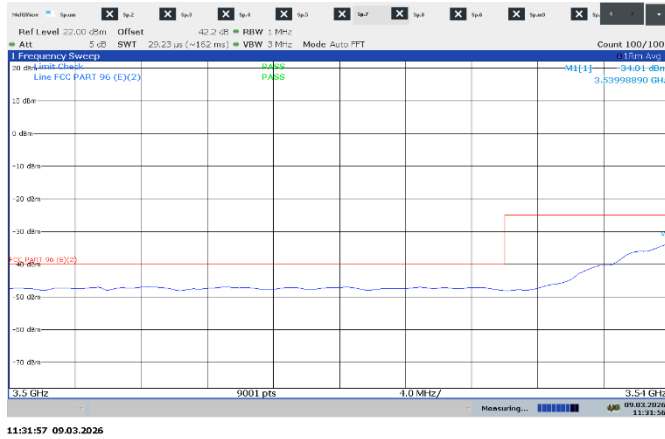


Figure 7.4-91: C. OOB sp. EMI, below 3540 MHz, 3CC 10+20+40 MHz, low ch

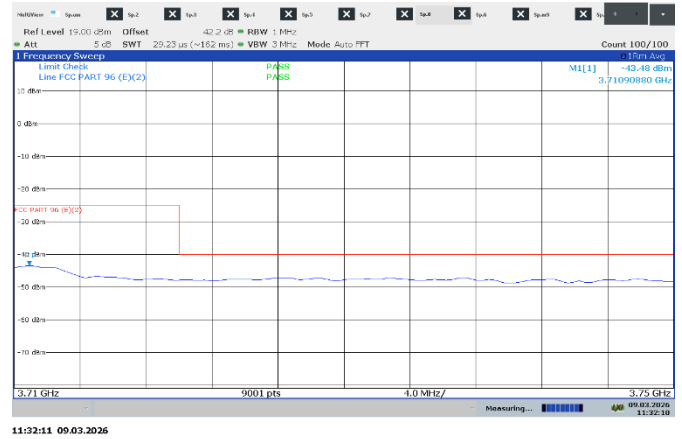


Figure 7.4-92: C. OOB sp. EMI, above 3710 MHz, 3CC 10+20+40 MHz, low ch

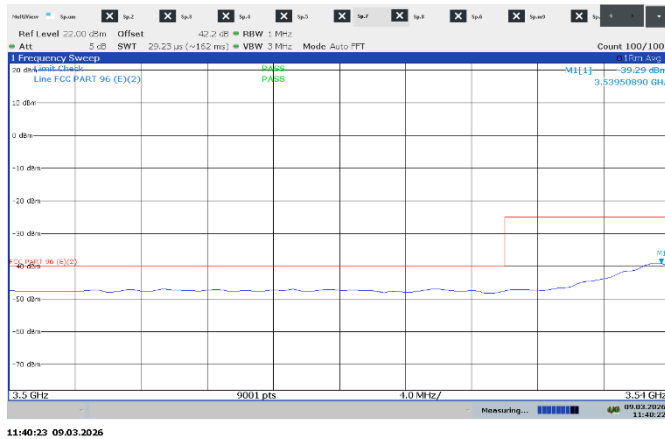


Figure 7.4-93: C. OOB sp. EMI, below 3540 MHz, 3CC 10+20+40 MHz, mid c.

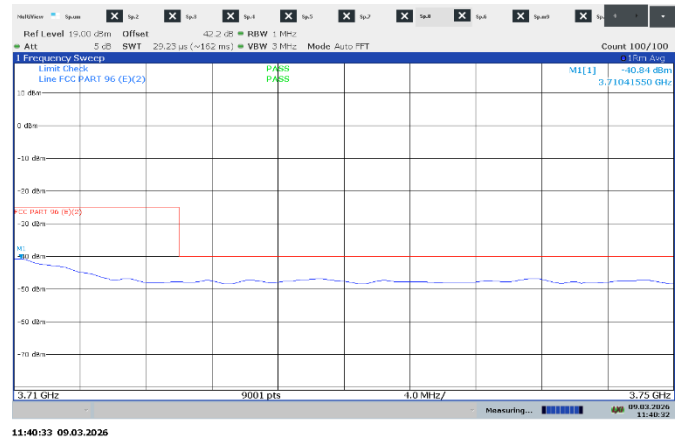


Figure 7.4-94: C. OOB sp. EMI, above 3710 MHz, 3CC 10+20+40 MHz, mid ch

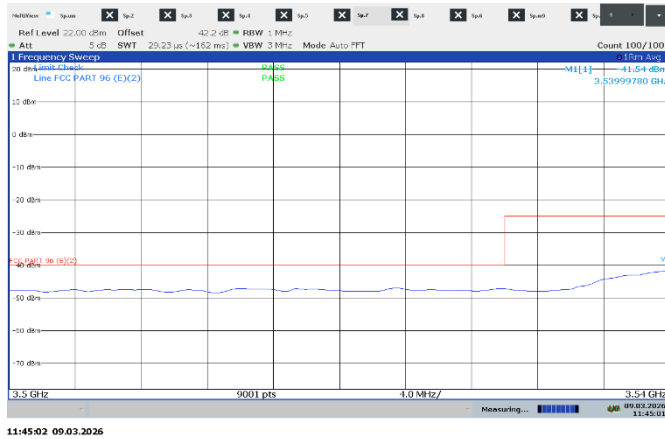


Figure 7.4-95: C. OOB sp. EMI, below 3540 MHz, 3CC 10+20+40 MHz, high c.

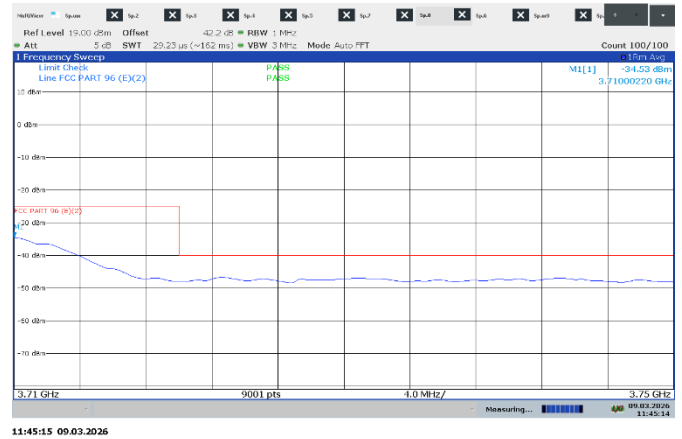


Figure 7.4-96: C. OOB sp. EMI, above 3710 MHz, 3CC 10+20+40 MHz, high ch

Test data, continued

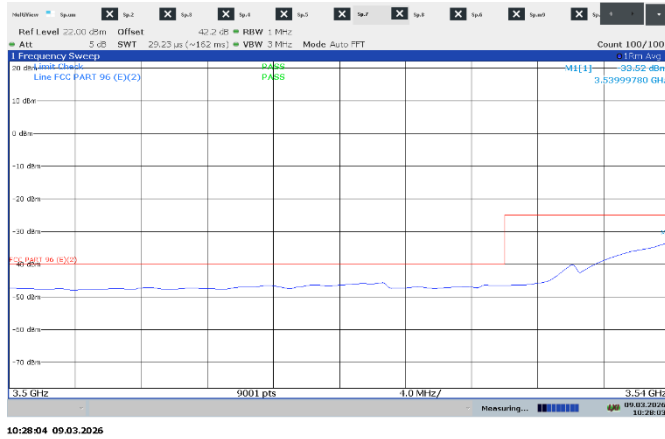


Figure 7.4-97: C. OOB sp. EMI, below 3540 MHz, 3CC 20+20+20 MHz, low ch

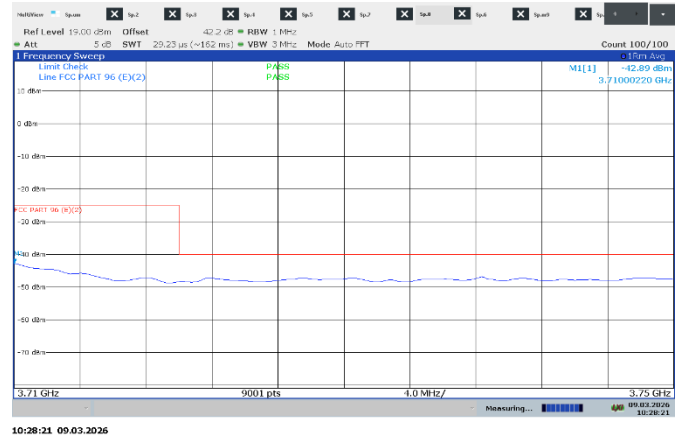


Figure 7.4-98: C. OOB sp. EMI, above 3710 MHz, 3CC 20+20+20 MHz, low ch

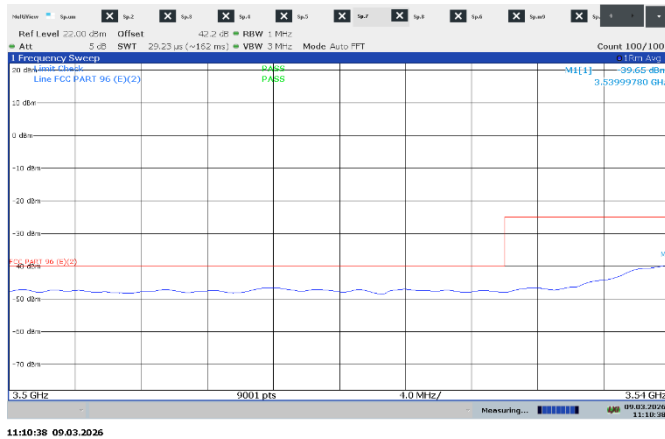


Figure 7.4-99: C. OOB sp. EMI, below 3540 MHz, 3CC 20+20+20 MHz, mid ch

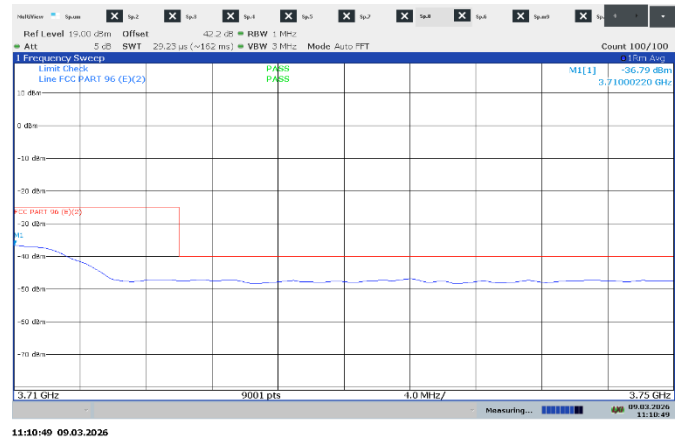


Figure 7.4-100: C. OOB sp. EMI, above 3710 MHz, 3CC 20+20+20 MHz, mid ch

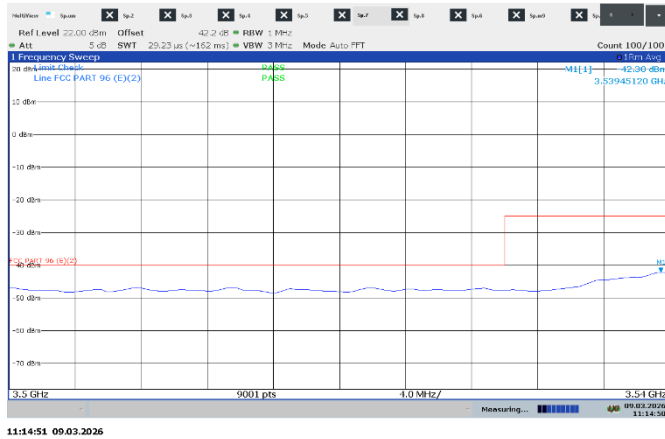


Figure 7.4-101: C. OOB sp. EMI, below 3540 MHz, 3CC 20+20+20 MHz, high

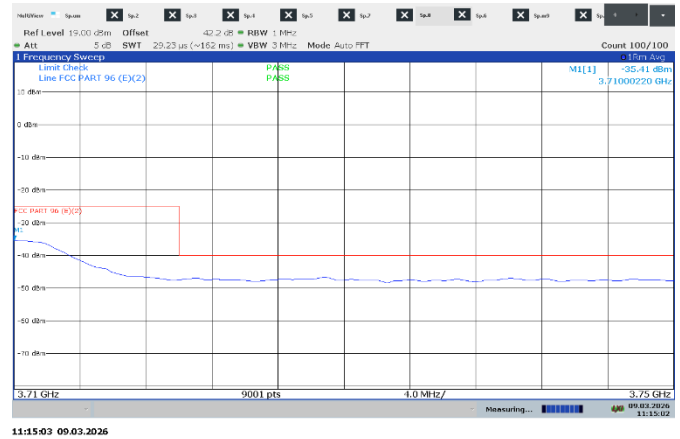


Figure 7.4-102: C. OOB sp. EMI, above 3710 MHz, 3CC 20+20+20 MHz, high

Test data, continued

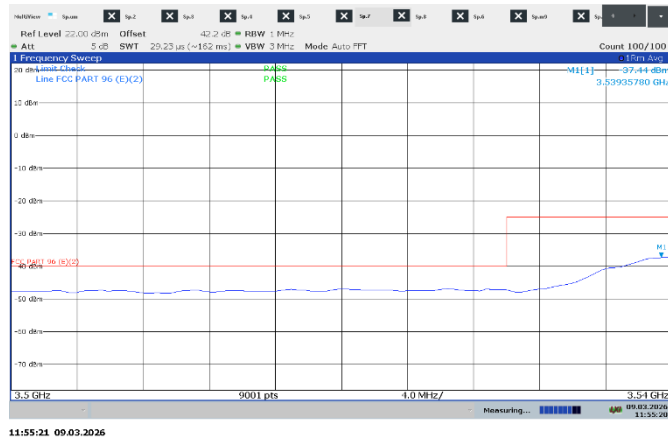


Figure 7.4-103: C. OOB sp. EMI, below 3540 MHz, 3CC 20+30+40 MHz, low c.

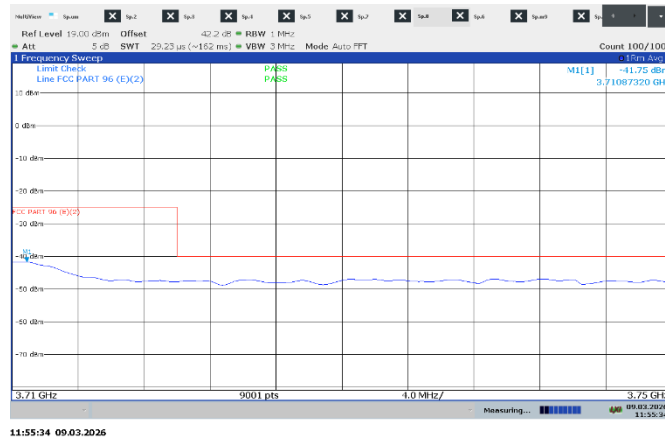


Figure 7.4-104: C. OOB sp. EMI, above 3710 MHz, 3CC 20+30+40 MHz, low c.

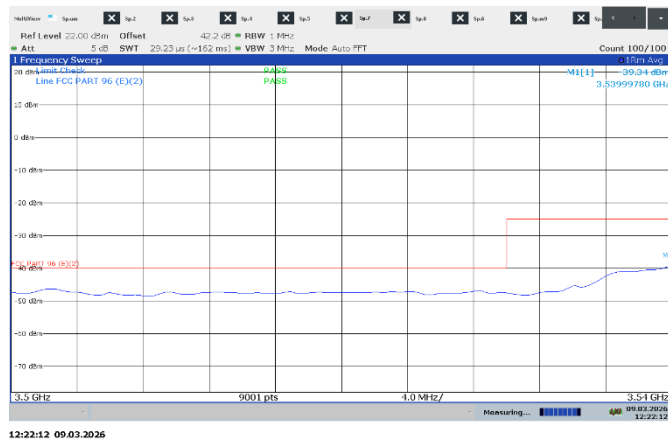


Figure 7.4-105: C. OOB sp. EMI, below 3540 MHz, 3CC 20+30+40 MHz, mid c

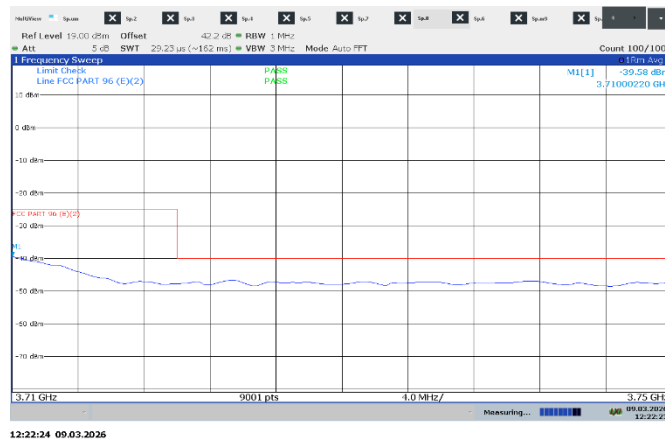


Figure 7.4-106: C. OOB sp. EMI, above 3710 MHz, 3CC 20+30+40 MHz, mid c

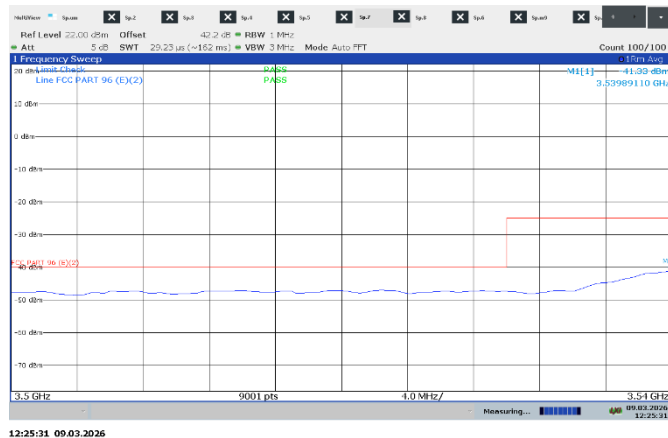


Figure 7.4-107: C. OOB sp. EMI, below 3540 MHz, 3CC 20+30+40 MHz, high

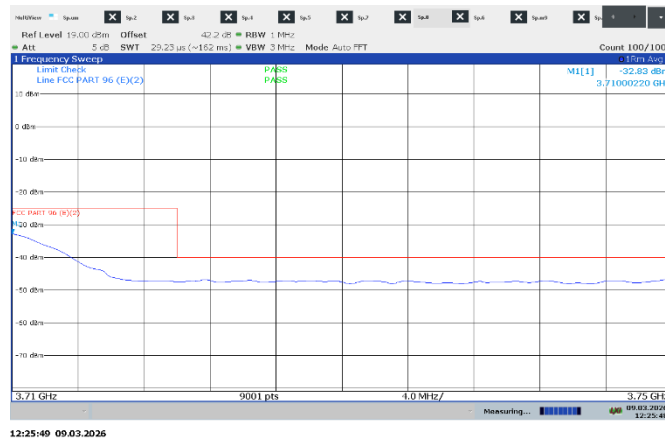
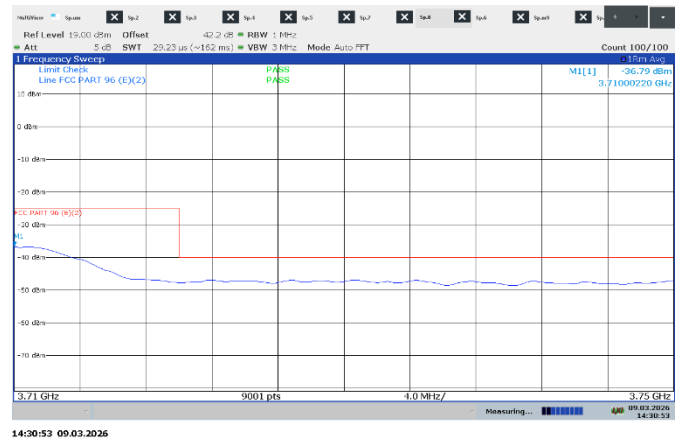
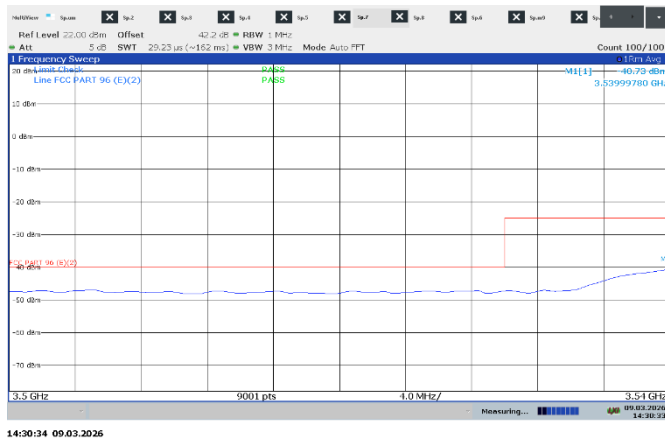
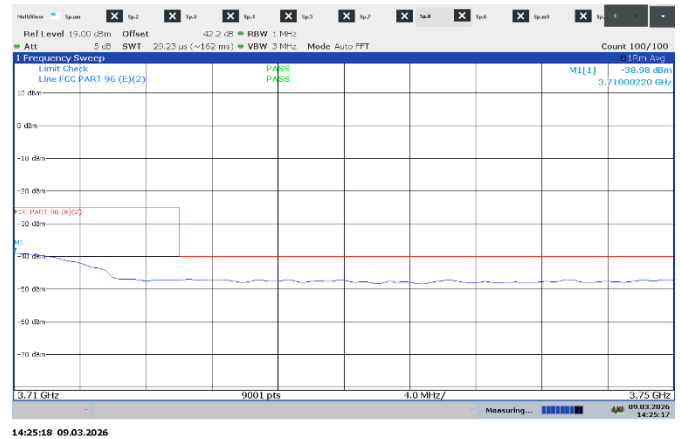
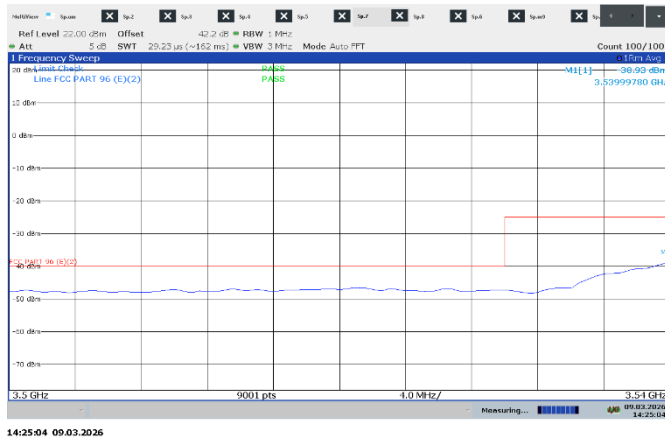
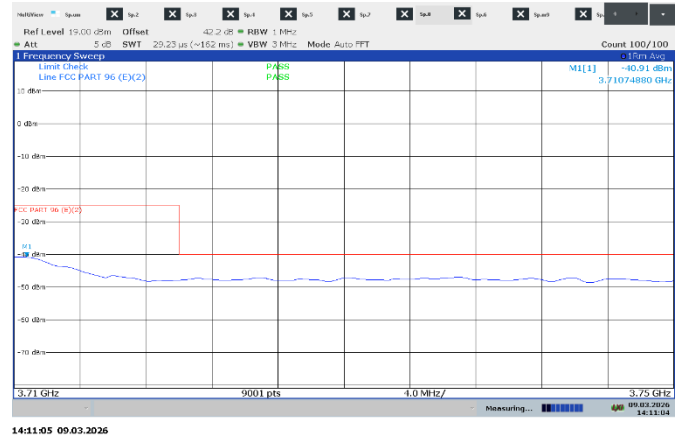
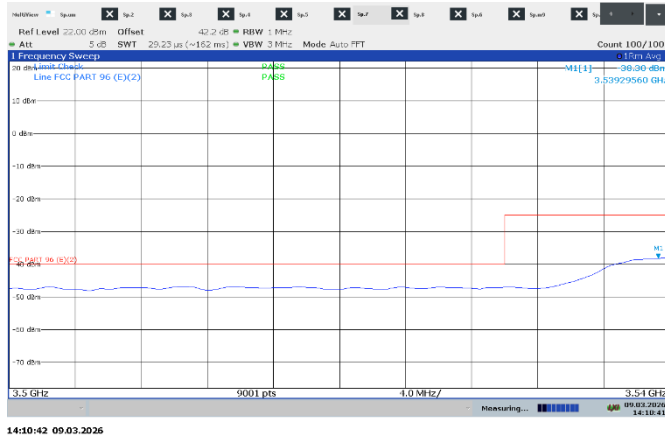


Figure 7.4-108: C. OOB sp. EMI, above 3710 MHz, 3CC 20+30+40 MHz, high

Test data, continued



Test data, continued

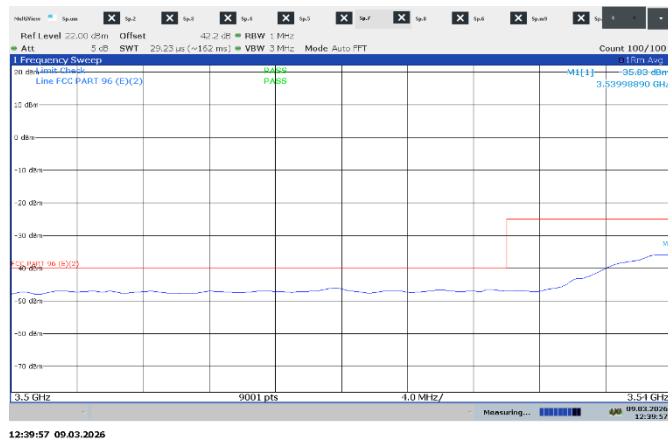


Figure 7.4-115: C. OOB sp. EMI, below 3540 MHz, 4CC 20+20+20+20, low ch

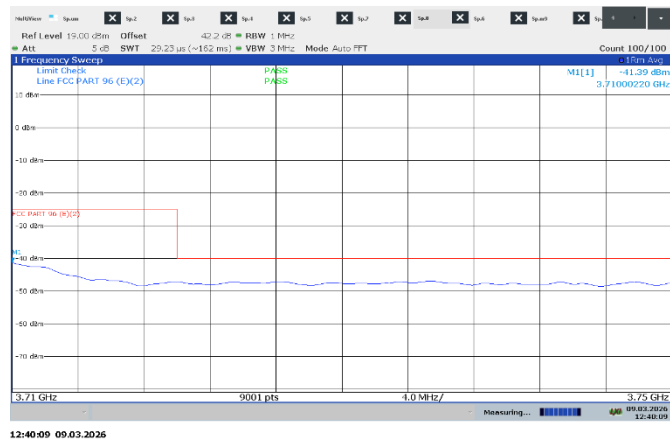


Figure 7.4-116: C. OOB sp. EMI, above 3710 MHz, 4CC 20+20+20+20, low ch

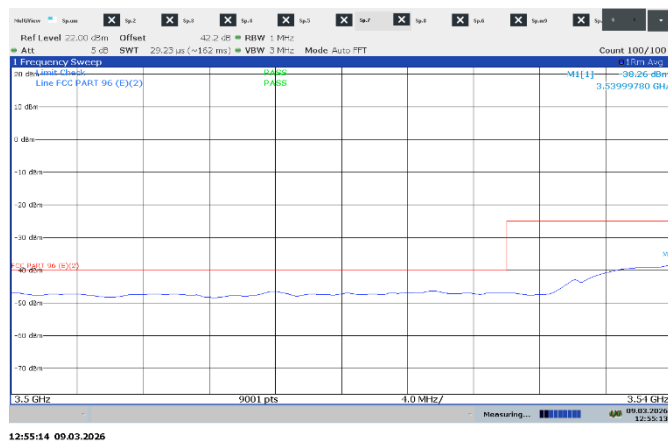


Figure 7.4-117: C. OOB sp. EMI, below 3540 MHz, 4CC 20+20+20+20, mid ch

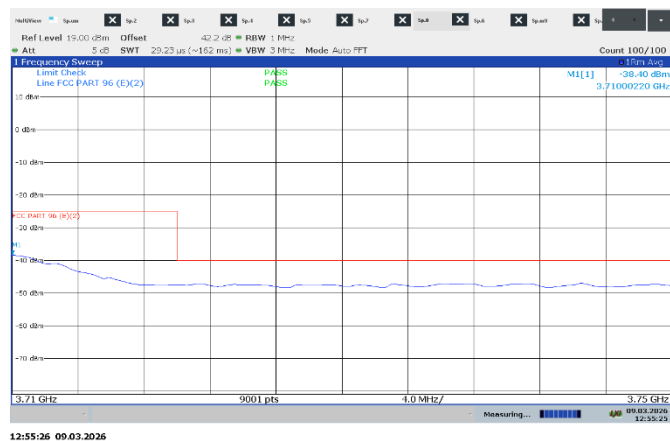


Figure 7.4-118: C. OOB sp. EMI, above 3710 MHz, 4CC 20+20+20+20, mid ch

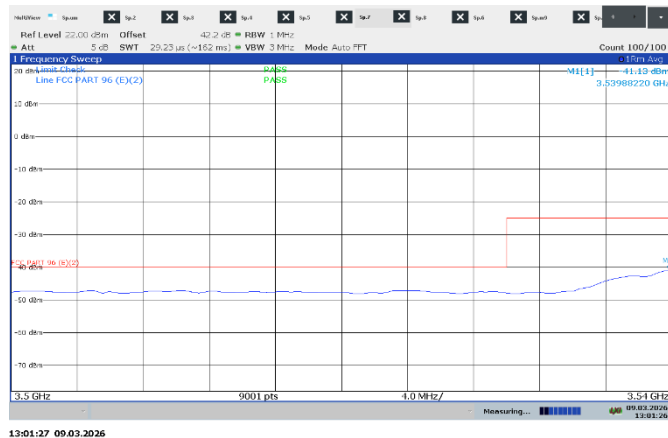


Figure 7.4-119: C. OOB sp. EMI, below 3540 MHz, 4CC 20+20+20+20, high ch

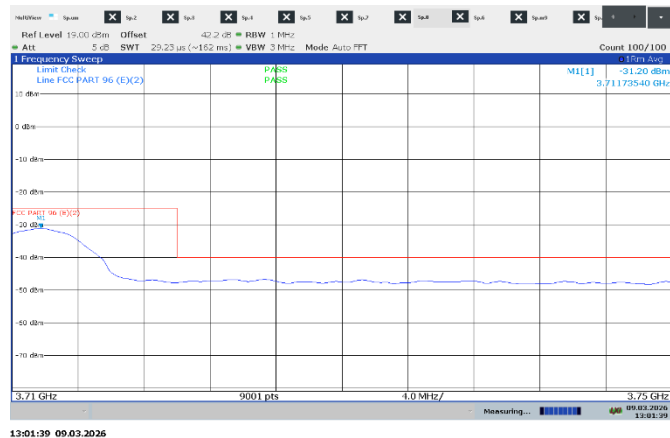


Figure 7.4-120: C. OOB sp. EMI, above 3710 MHz, 4CC 20+20+20+20, high ch

7.5 Frequency stability

7.5.1 References, definitions and limits

FCC §2.1055

- (a) The frequency stability shall be measured with variation of ambient temperature as follows:
 - (a)(1) From -30° to $+50^{\circ}$ centigrade for all equipment
 - (b) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short term transient effects on the frequency of the transmitter due to keying (except for broadcast transmitters) and any heating element cycling normally occurring at each ambient temperature level also shall be shown. Only the portion or portions of the transmitter containing the frequency determining and stabilizing circuitry need be subjected to the temperature variation test.
- (d)(1) The frequency stability shall be measured with variation of primary supply voltage as follows:
 - Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

7.5.2 Test summary

Verdict	Pass		
Test date	March 16, 2026	Temperature	24 °C
Tested by	Tarek Elkholy	Air pressure	955 mbar
Test location	Cambridge	Relative humidity	40 %

7.5.3 Observations, settings and special notes

- Testing was performed per ANSI C63.26 Paragraphs 5.6 methods.
- The fundamental emission remains within the authorized frequency band under various environmental conditions.
- $\frac{F_{Measured} - F_{Reference}}{F_{Reference}} \times 10^6$ was used to calculate the drift in the center frequency.

7.5.4 Test data

Table 7.5-1: Transmitter frequency stability results, 1CC 10 MHz

Test conditions	Frequency, Hz	Drift, ppm	26 dB bandwidth, MHz	Deviation in 26 dB bandwidth, MHz
+50 °C, Nominal	3.55496734	-0.0397	9.56	0.01
+40 °C, Nominal	3.55496781	0.0934	9.56	0.01
+30 °C, Nominal	3.55496773	0.0706	9.55	0.00
+20 °C, Voltage 85 %	3.55496753	0.0135	9.55	0.00
+20 °C, Nominal	3.55496748	Reference	9.55	Reference
+20 °C, Voltage 115 %	3.55496746	-0.0045	9.56	0.01
+10 °C, Nominal	3.55496749	0.0039	9.56	0.01
0 °C, Nominal	3.55496752	0.0107	9.55	0.00
-10 °C, Nominal	3.55496724	-0.0678	9.55	0.00
-20 °C, Nominal	3.55496756	0.0222	9.55	0.00
-30 °C, Nominal	3.55496760	0.0352	9.54	-0.01

Table 7.5-2: Transmitter frequency stability results, 4CC 10+20+30+40 MHz

Test conditions	Frequency, Hz	Drift, ppm	26 dB bandwidth, MHz	Deviation in 26 dB bandwidth, MHz
+50 °C, Nominal	3.60031462	-0.5394	99.64	0.00
+40 °C, Nominal	3.60031764	0.3000	99.64	0.00
+30 °C, Nominal	3.60031730	0.2064	99.64	0.00
+20 °C, Voltage 85 %	3.60031528	-0.3552	99.64	0.00
+20 °C, Nominal	3.60031656	Reference	99.64	Reference
+20 °C, Voltage 115 %	3.60031635	-0.0594	99.64	0.00
+10 °C, Nominal	3.60031210	-1.2388	99.64	0.00
0 °C, Nominal	3.60031460	-0.5461	99.64	0.00
-10 °C, Nominal	3.60031842	0.5152	99.64	0.00
-20 °C, Nominal	3.60031860	0.5666	99.64	0.00
-30 °C, Nominal	3.60031783	0.3527	99.64	0.00

End of the test report