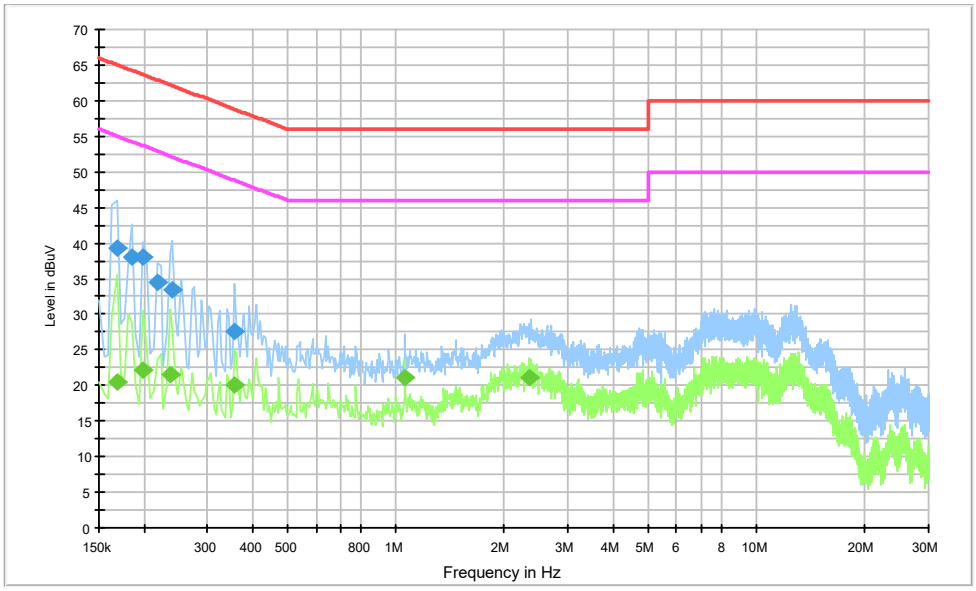

Fig.66 Conducted Emission (802.11a, IDLE)

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.168000	39.2	2000.	9.000	Off	L1	19.7	25.8
0.186000	38.1	2000.	9.000	Off	L1	19.7	26.1
0.199500	38.1	2000.	9.000	Off	N	19.7	25.6
0.217500	34.4	2000.	9.000	Off	N	19.7	28.5
0.240000	33.4	2000.	9.000	Off	L1	19.6	28.7
0.357000	27.7	2000.	9.000	Off	L1	19.6	31.1

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.168000	20.5	2000.0	9.000	Off	L1	19.7	34.6
0.199500	22.2	2000.0	9.000	Off	N	19.7	31.5
0.235500	21.5	2000.0	9.000	Off	N	19.6	30.8
0.357000	20.1	2000.0	9.000	Off	N	19.6	28.7
1.059000	21.1	2000.0	9.000	Off	N	19.7	24.9
2.346000	21.1	2000.0	9.000	Off	L1	19.7	24.9

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A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% ofthe total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz

EUT ID: UT11a

Measurement Result:

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant6	5180	16.795	5171.5829	5188.3775	---	---
		5200	16.766	5191.5827	5208.3483	---	---
		5240	16.775	5231.6171	5248.3924	---	---
		5260	16.801	5251.5462	5268.3472	---	---
		5280	16.84	5271.5490	5288.3890	---	---
		5320	16.805	5311.5478	5328.3532	---	---
		5500	16.82	5491.5935	5508.4137	---	---
		5580	16.919	5571.5617	5588.4803	---	---
		5700	16.769	5691.6025	5708.3714	---	---
		5720	16.767	5711.6026	5728.3697	---	---

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11N20SISO	Ant6	5180	17.996	5170.9975	5188.9938	---	---
		5200	17.957	5190.9768	5208.9340	---	---
		5240	17.95	5231.0233	5248.9732	---	---
		5260	18.009	5250.9320	5268.9411	---	---
		5280	18.027	5270.9430	5288.9699	---	---
		5320	17.967	5310.9643	5328.9308	---	---
		5500	18.028	5491.0153	5509.0433	---	---
		5580	17.962	5570.9783	5588.9405	---	---
		5700	17.932	5691.0176	5708.9500	---	---
		5720	20.468	5710.8065	5731.2750	---	---
11N40SISO	Ant6	5190	36.409	5171.7723	5208.1815	---	---
		5230	36.51	5211.6983	5248.2085	---	---
		5270	36.547	5251.6600	5288.2068	---	---
		5310	36.388	5291.7474	5328.1354	---	---
		5510	36.425	5491.7497	5528.1746	---	---
		5550	36.488	5531.7558	5568.2439	---	---
		5670	36.297	5651.8539	5688.1507	---	---
		5710	36.327	5691.8182	5728.1457	---	---
11AC80SISO	Ant6	5210	76.117	5171.9293	5248.0459	---	---
		5290	76.242	5251.7392	5327.9815	---	---
		5530	76.163	5491.8910	5568.0544	---	---
		5610	76.237	5571.7917	5648.0286	---	---
		5690	75.9	5652.0408	5727.9413	---	---
11AX160SISO	Ant6	5250	157.531	5171.1293	5328.6603	---	---
		5570	157.277	5490.9673	5648.2443	---	---
11N20MIMO	Ant6	5180	17.997	5170.9995	5188.9962	---	---
	Ant10	5180	17.862	5171.0777	5188.9399	---	---
	Ant6	5200	17.954	5190.9727	5208.9268	---	---
	Ant10	5200	17.839	5191.0611	5208.9002	---	---
	Ant6	5240	18.364	5230.8386	5249.2026	---	---
	Ant10	5240	18.279	5230.8575	5249.1363	---	---
	Ant6	5260	18.416	5250.7603	5269.1766	---	---
	Ant10	5260	18.332	5250.8846	5269.2165	---	---
	Ant6	5280	18.469	5270.7728	5289.2415	---	---
	Ant10	5280	18.279	5270.8582	5289.1371	---	---
	Ant6	5320	18.433	5310.7520	5329.1852	---	---
	Ant10	5320	18.332	5310.8798	5329.2117	---	---
	Ant6	5500	18.507	5490.8101	5509.3172	---	---
	Ant10	5500	18.507	5490.7895	5509.2969	---	---
	Ant6	5580	18.445	5570.7863	5589.2317	---	---
	Ant10	5580	18.368	5570.8302	5589.1985	---	---

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	Ant6	5700	18.389	5690.8558	5709.2448	---	---
	Ant10	5700	18.267	5690.8487	5709.1155	---	---
	Ant6	5720	18.395	5710.8436	5729.2387	---	---
	Ant10	5720	18.277	5710.8438	5729.1205	---	---
11N40MIMO	Ant6	5190	36.37	5171.7865	5208.1567	---	---
	Ant10	5190	36.218	5171.9043	5208.1218	---	---
	Ant6	5230	36.436	5211.7410	5248.1775	---	---
	Ant10	5230	36.275	5211.8362	5248.1111	---	---
	Ant6	5270	36.456	5251.7121	5288.1685	---	---
	Ant10	5270	36.172	5251.9004	5288.0726	---	---
	Ant6	5310	36.392	5291.7225	5328.1143	---	---
	Ant10	5310	36.245	5291.9108	5328.1560	---	---
	Ant6	5510	36.411	5491.7355	5528.1470	---	---
	Ant10	5510	36.223	5491.8560	5528.0795	---	---
	Ant6	5550	36.447	5531.7129	5568.1604	---	---
	Ant10	5550	36.239	5531.8229	5568.0620	---	---
	Ant6	5670	36.223	5651.8893	5688.1126	---	---
	Ant10	5670	36.242	5651.8460	5688.0875	---	---
	Ant6	5710	36.262	5691.8583	5728.1208	---	---
	Ant10	5710	36.248	5691.8177	5728.0661	---	---
11AC80MIMO	Ant6	5210	76.048	5171.9655	5248.0139	---	---
	Ant10	5210	75.52	5172.3024	5247.8227	---	---
	Ant6	5290	76.082	5251.8557	5327.9375	---	---
	Ant10	5290	75.656	5252.2530	5327.9091	---	---
	Ant6	5530	76.058	5491.8370	5567.8948	---	---
	Ant10	5530	75.564	5492.1071	5567.6711	---	---
	Ant6	5610	75.978	5571.9128	5647.8908	---	---
	Ant10	5610	75.576	5572.0531	5647.6295	---	---
	Ant6	5690	75.795	5652.1448	5727.9397	---	---
	Ant10	5690	75.651	5652.0566	5727.7077	---	---
11AX160MIMO	Ant6	5250	157.524	5171.2049	5328.7288	---	---
	Ant10	5250	157.299	5171.6345	5328.9330	---	---
	Ant6	5570	157.453	5490.9638	5648.4166	---	---
	Ant10	5570	156.633	5491.0669	5647.7003	---	---

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Test graphs as below:

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11A_Ant6_5200

10:06:08 11.01.2024

11A_Ant6_5240

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10:06:42 11.01.2024

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10:07:17 11.01.2024

11A_Ant6_5280

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10:07:46 11.01.2024

11A_Ant6_5320

10:08:19 11.01.2024

11A_Ant6_5500

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10:10:20 11.01.2024

11A_Ant6_5580

10:11:13 11.01.2024

11A_Ant6_5700

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10:16:48 11.01.2024

11A_Ant6_5720

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11N20SISO_Ant6_5180

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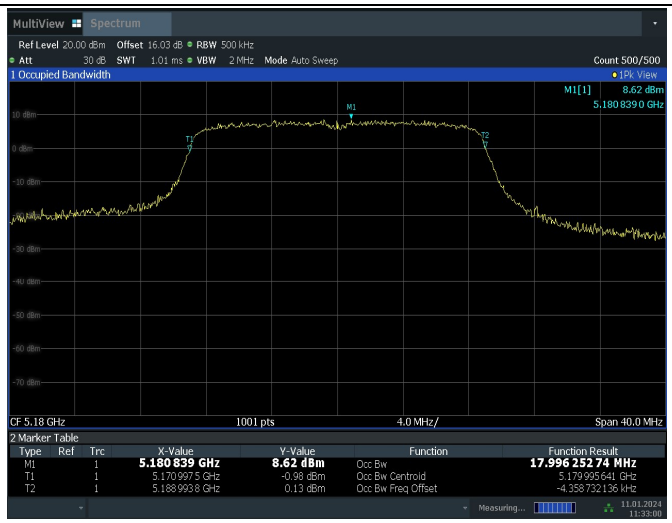

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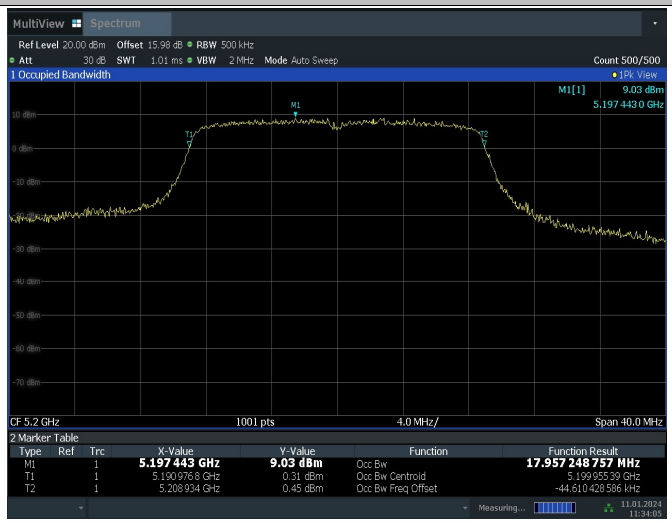

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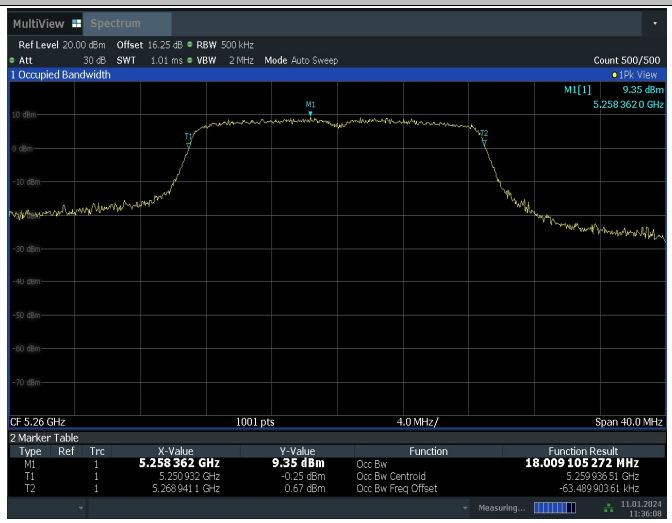

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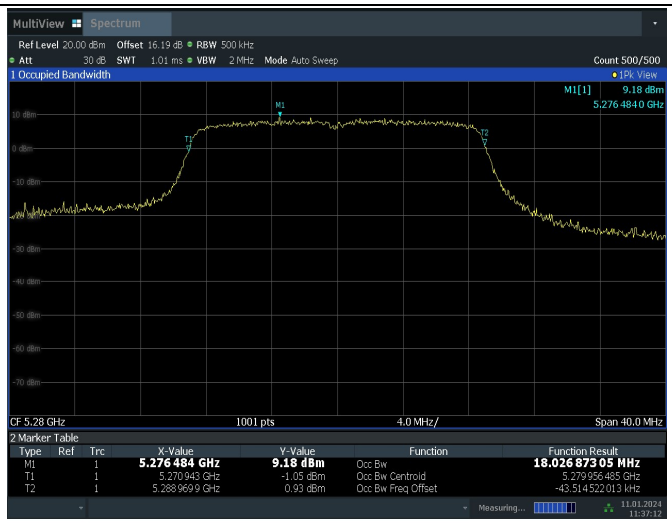

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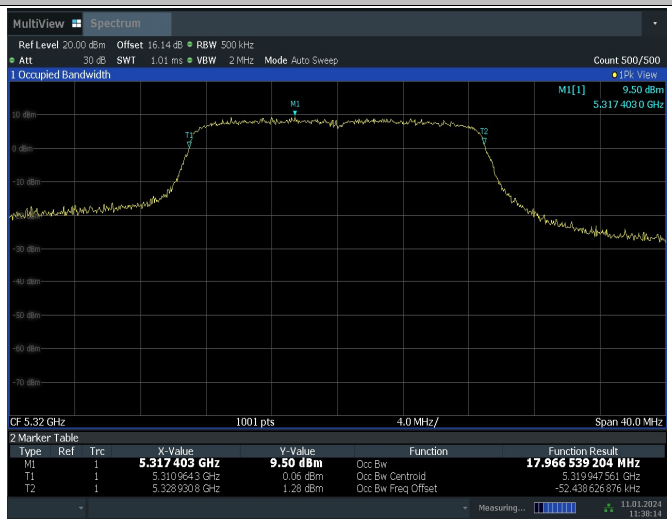

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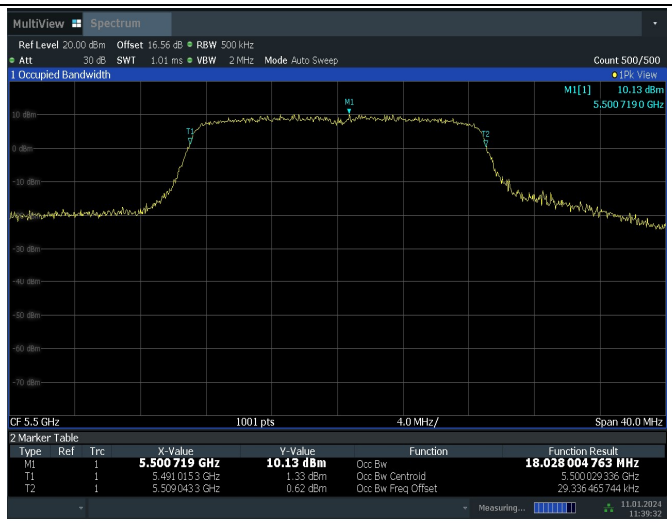

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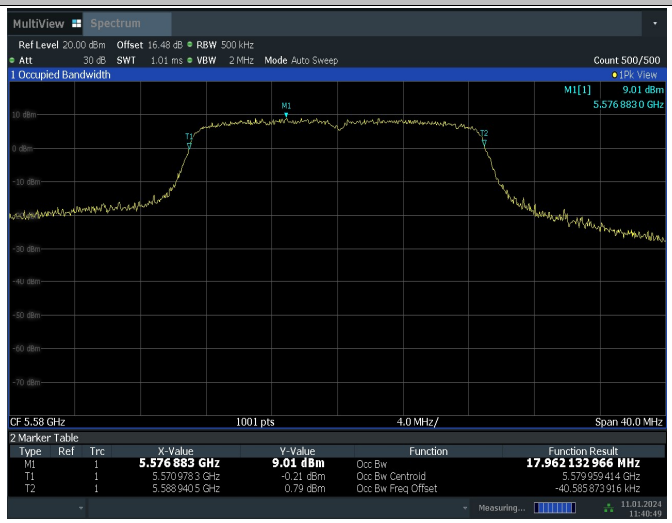

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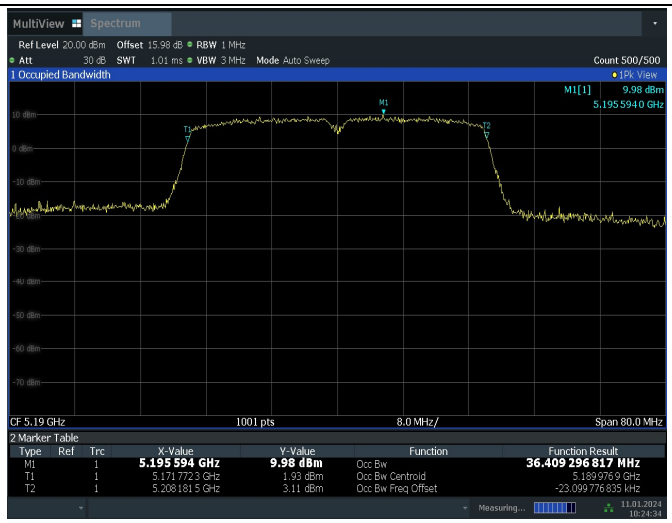

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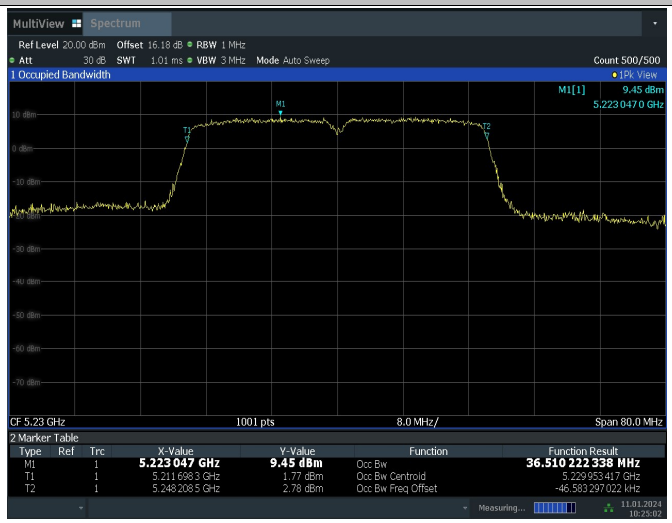

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