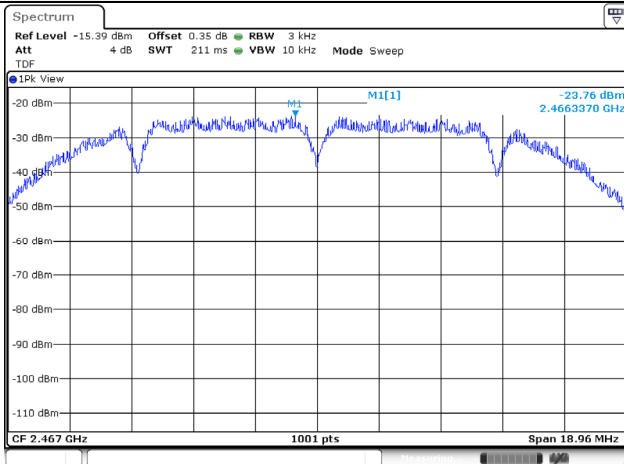
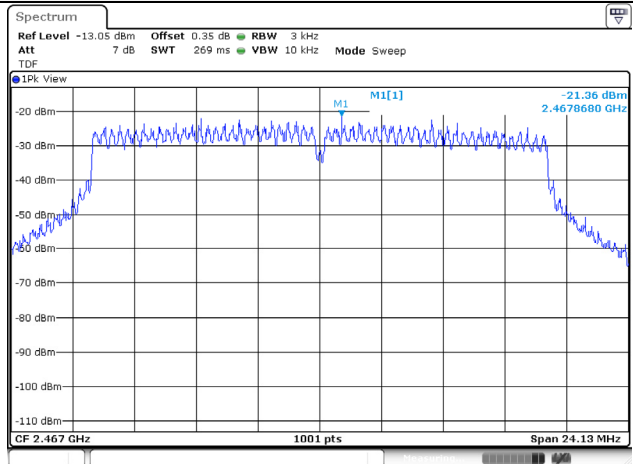
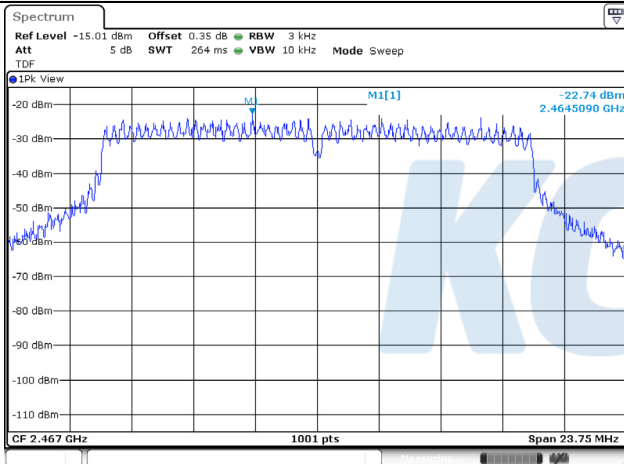
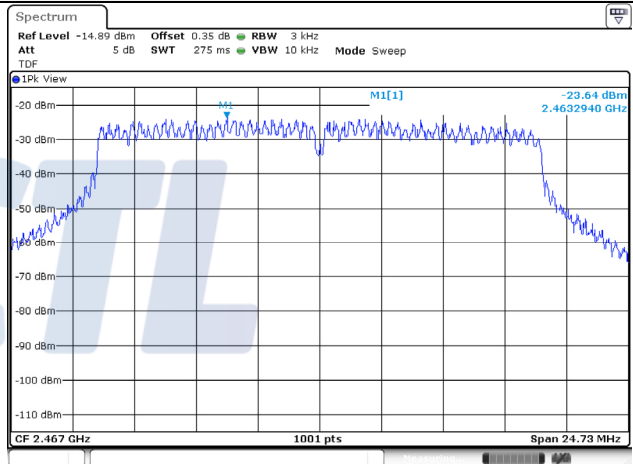
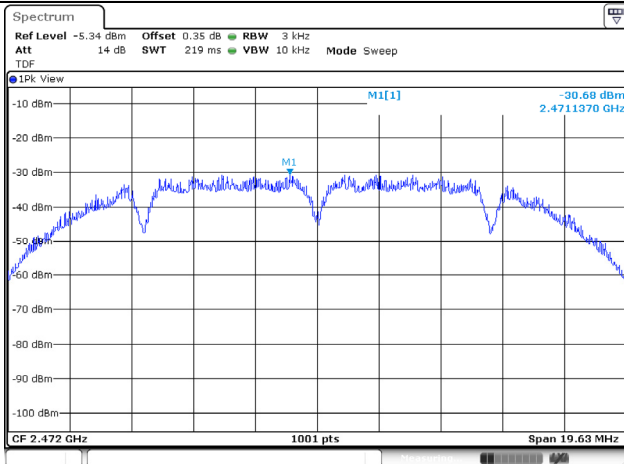
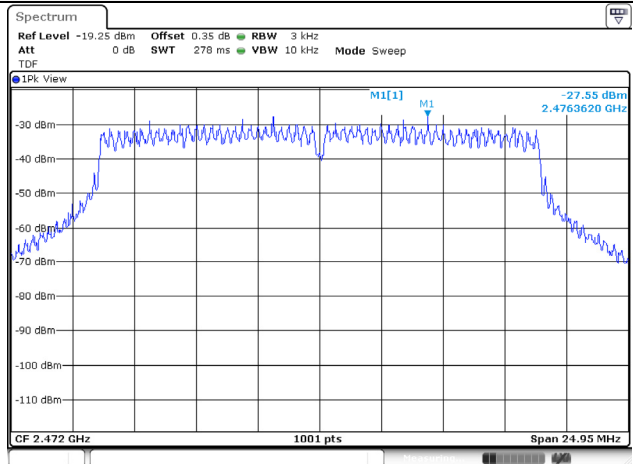
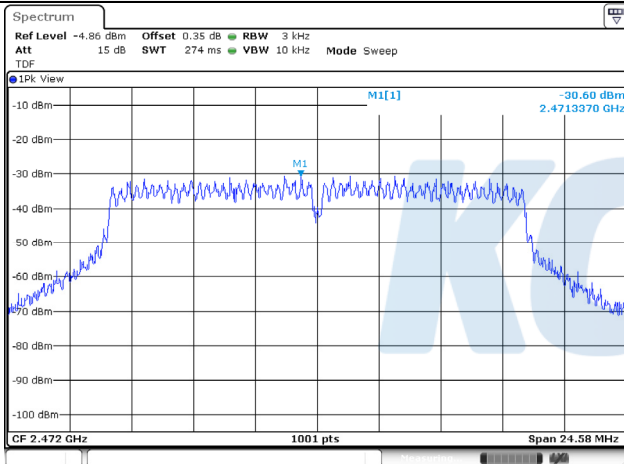
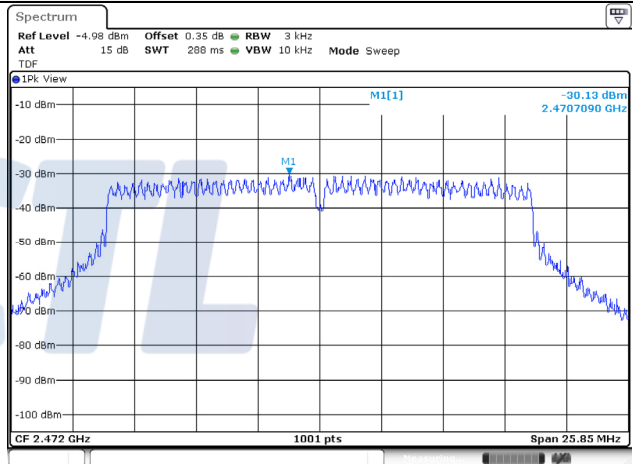
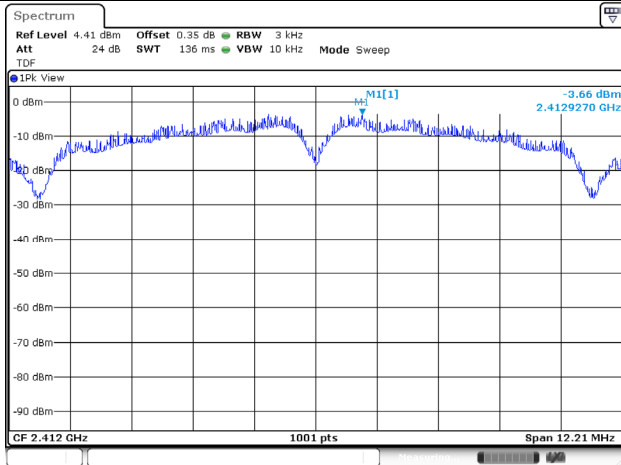
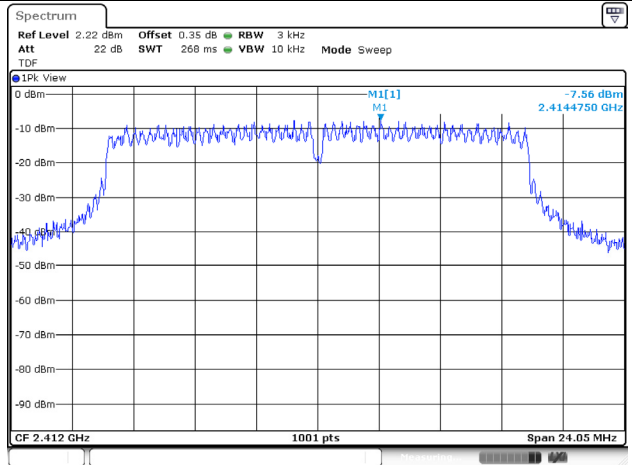
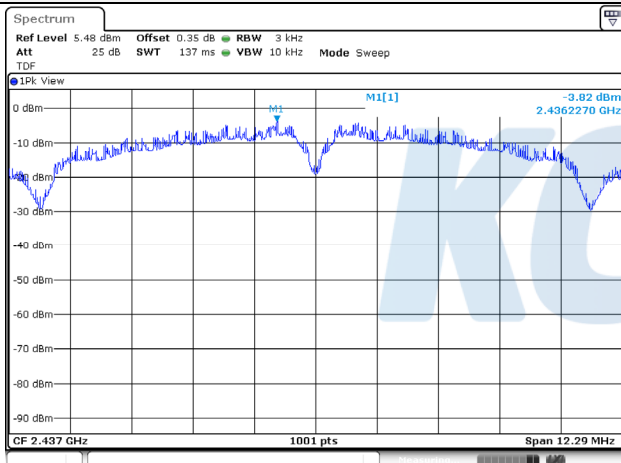
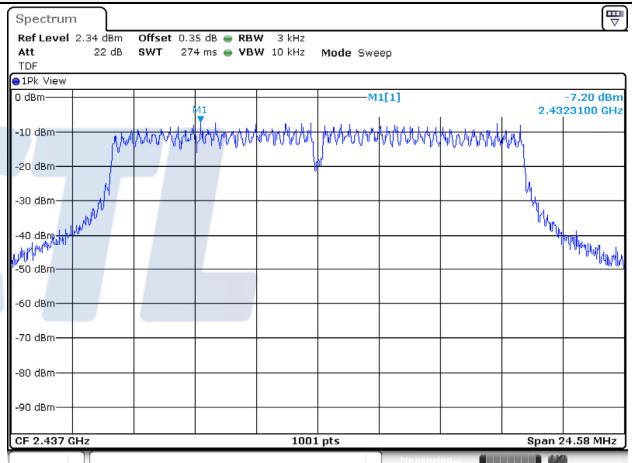
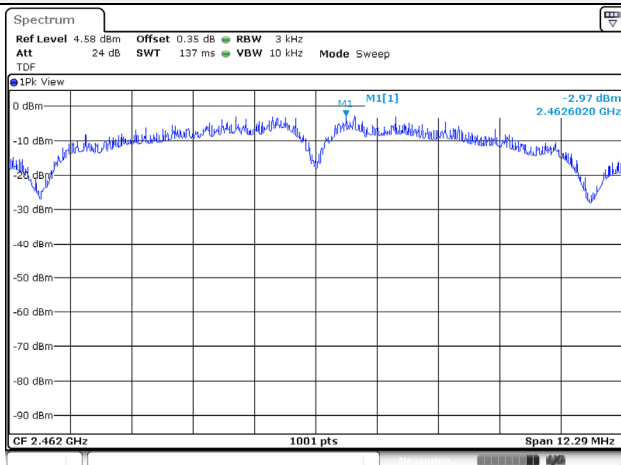
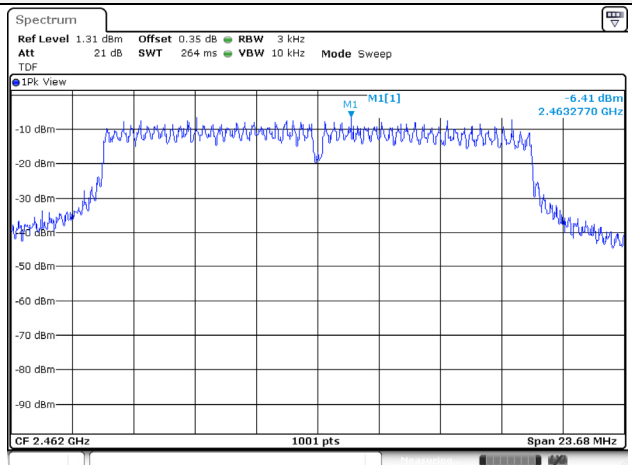
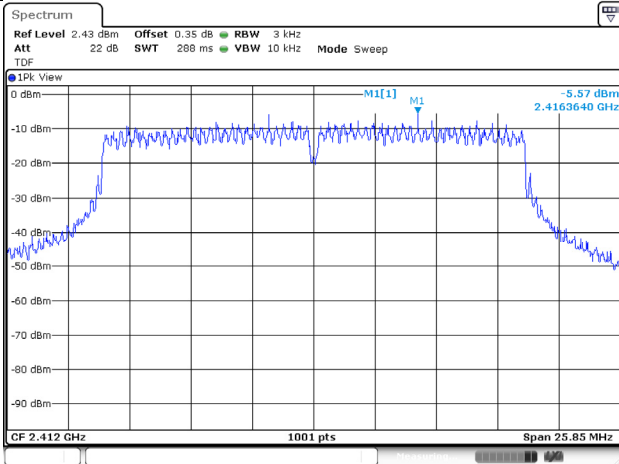
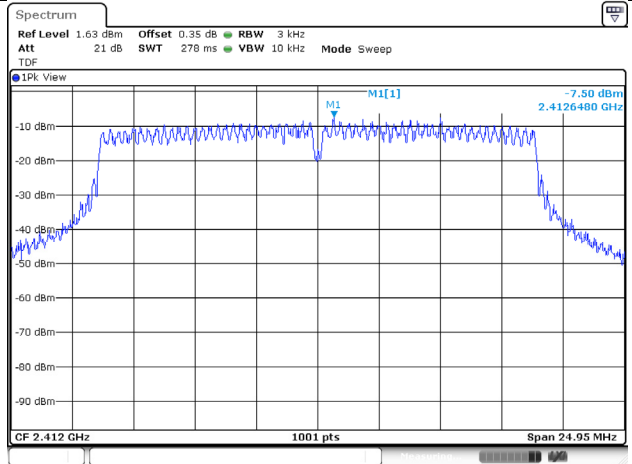
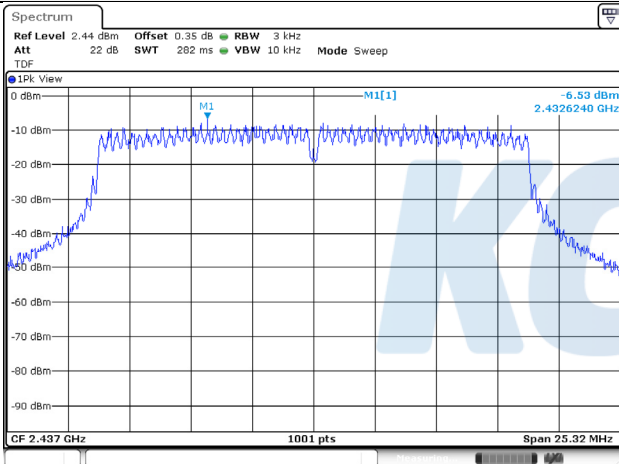
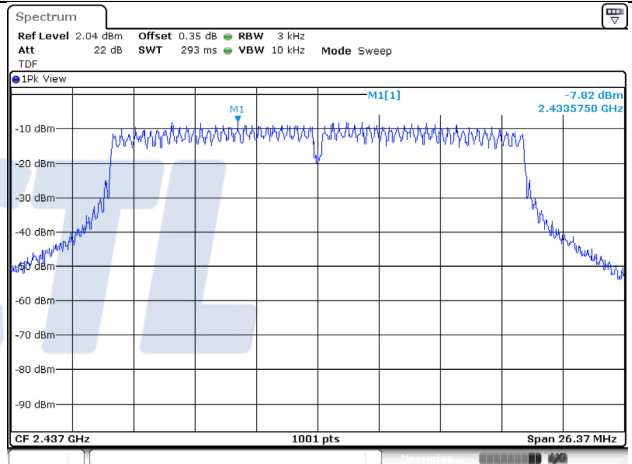
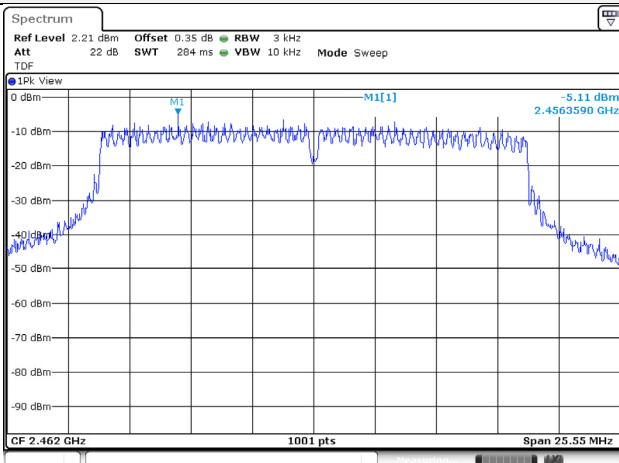
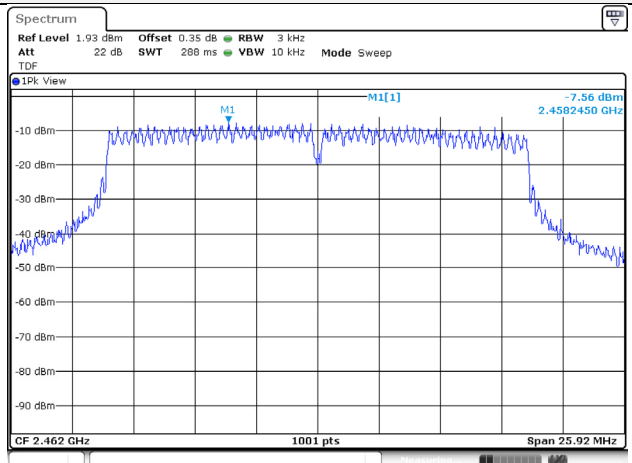
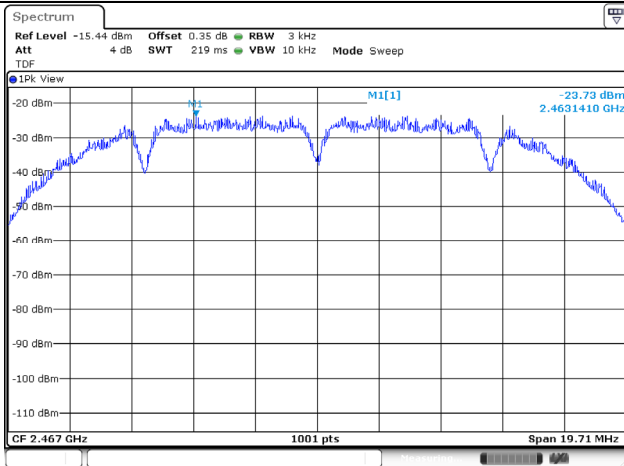
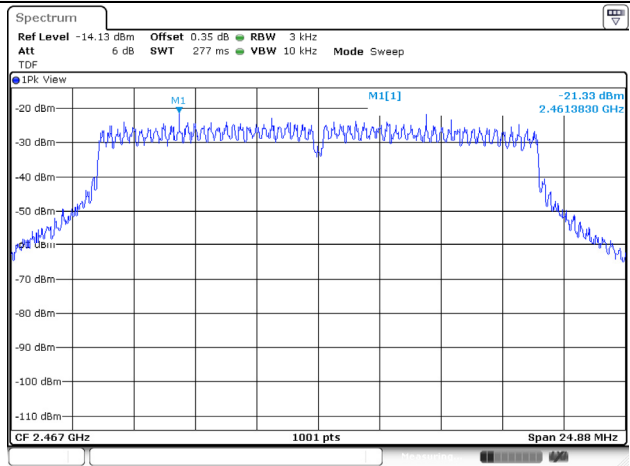
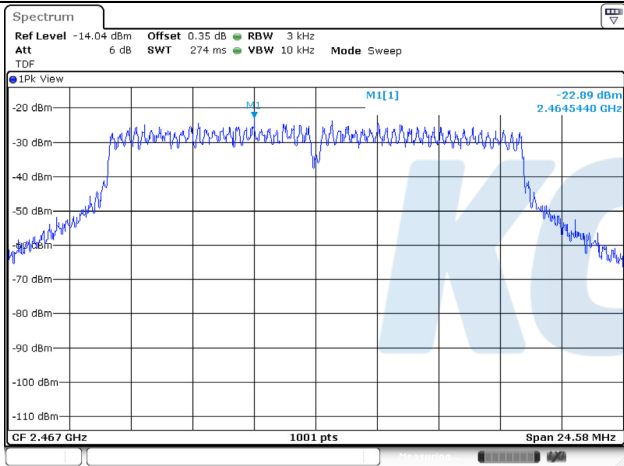
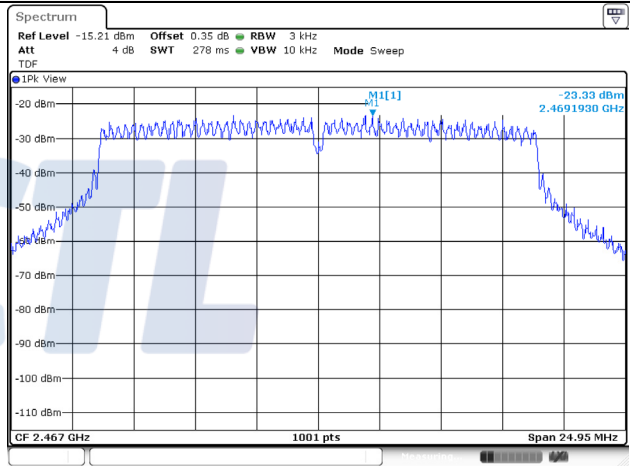


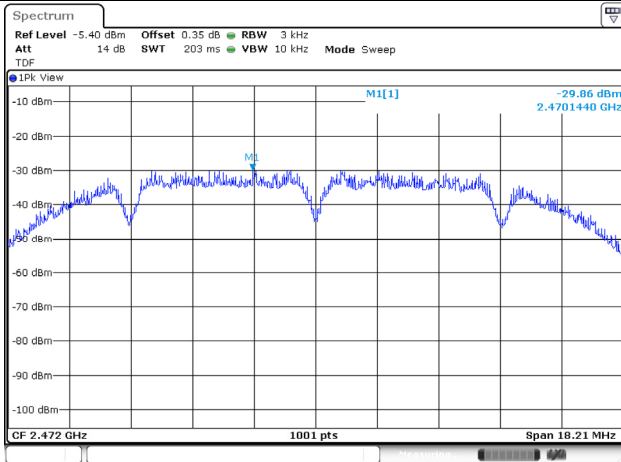
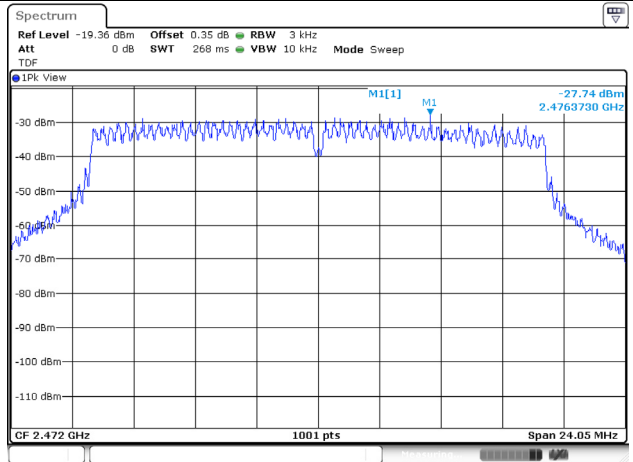
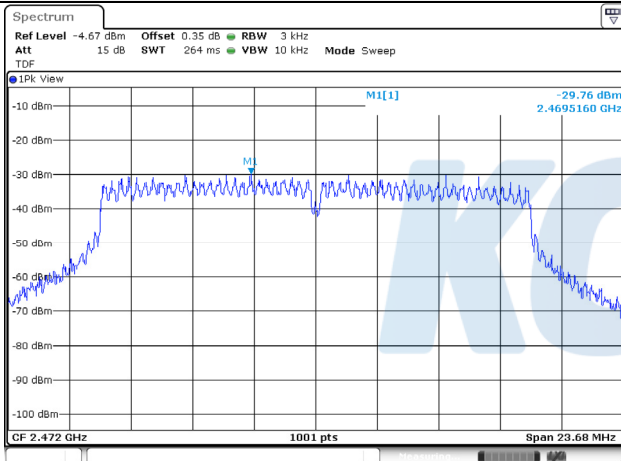
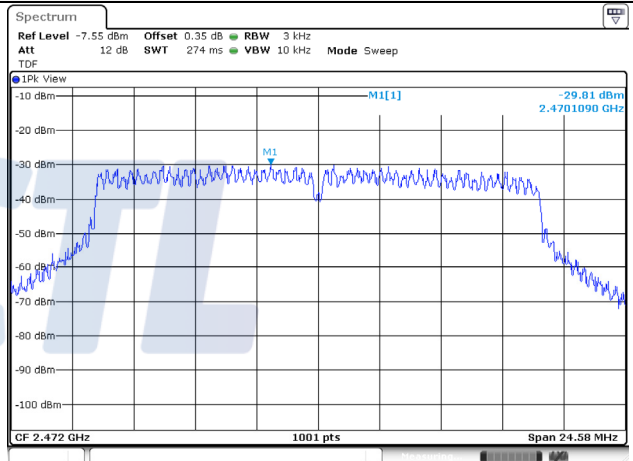
802.11b / 2 467 MHz**802.11n HT20 / 2 467 MHz****802.11g / 2 467 MHz****802.11ac VHT20 / 2 467 MHz**

802.11b / 2 472 MHz**802.11n HT20 / 2 472 MHz****802.11g / 2 472 MHz****802.11ac VHT20 / 2 472 MHz**

MIMO_ANT 2**802.11b / 2 412 MHz****802.11g / 2 412 MHz****802.11b / 2 437 MHz****802.11g / 2 437 MHz****802.11b / 2 462 MHz****802.11g / 2 462 MHz**

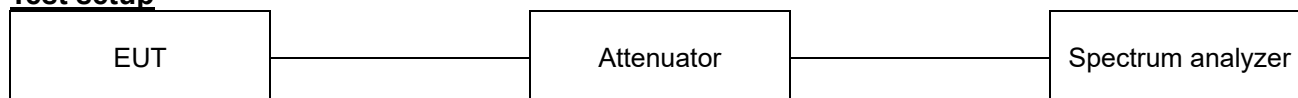
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802.11b / 2 467 MHz**802.11n HT20 / 2 467 MHz****802.11g / 2 467 MHz****802.11ac VHT20 / 2 467 MHz**

802.11b / 2 472 MHz**802.11n HT20 / 2 472 MHz****802.11g / 2 472 MHz****802.11ac VHT20 / 2 472 MHz**

7.3. 6 dB Bandwidth(DTS Channel Bandwidth)

Test setup



Limit

According to §15.247(a)(2) Systems using digital modulation techniques may operate in the 902–928 MHz, 2 400–2 483.5 MHz, and 5 725–5 850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

ANSI C63.10 - Section 11.8.2

Test settings

DTS bandwidth

One of the following procedures may be used to determine the modulated DTS bandwidth.

Option 1

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times$ RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

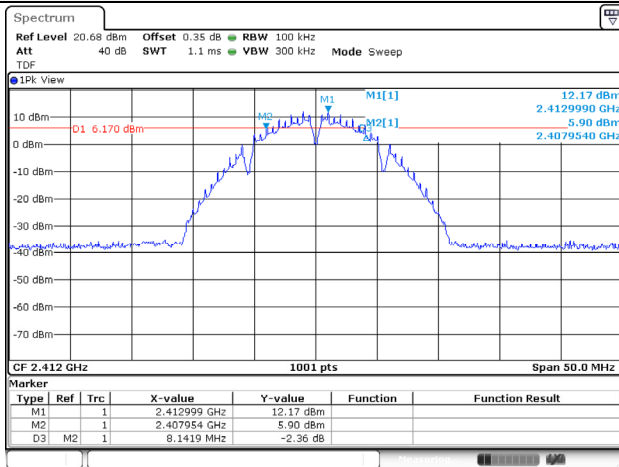
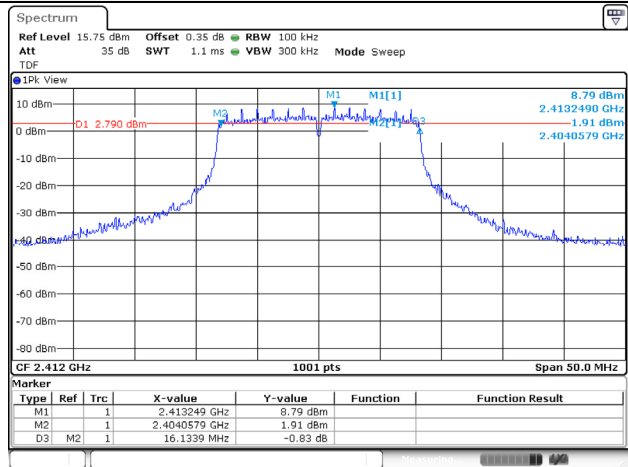
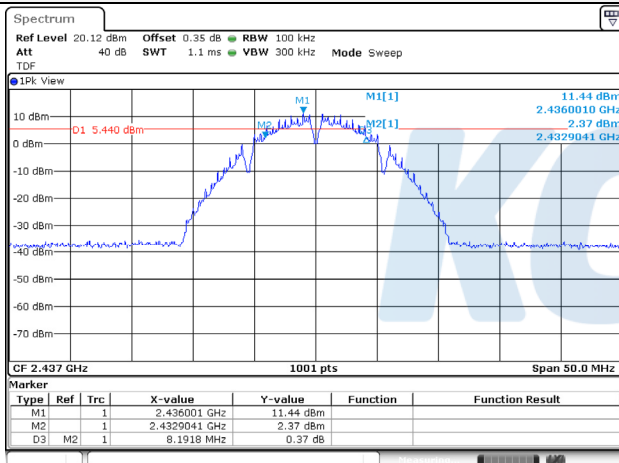
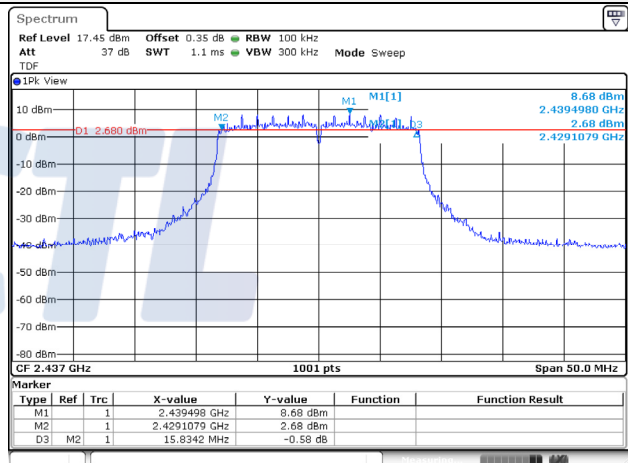
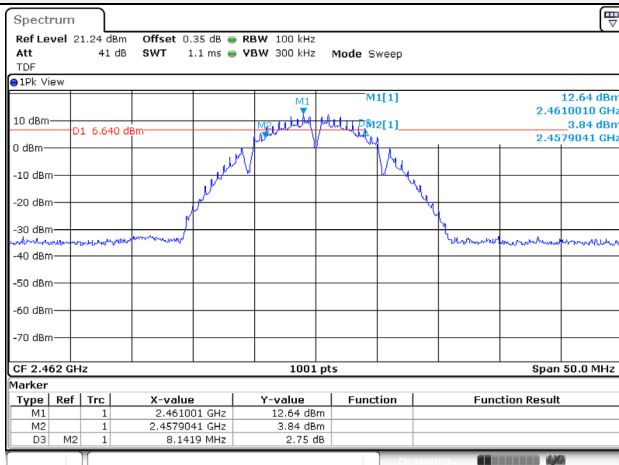
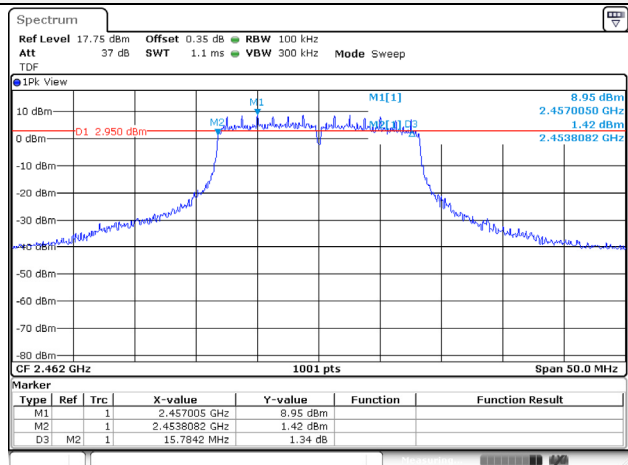
Test results

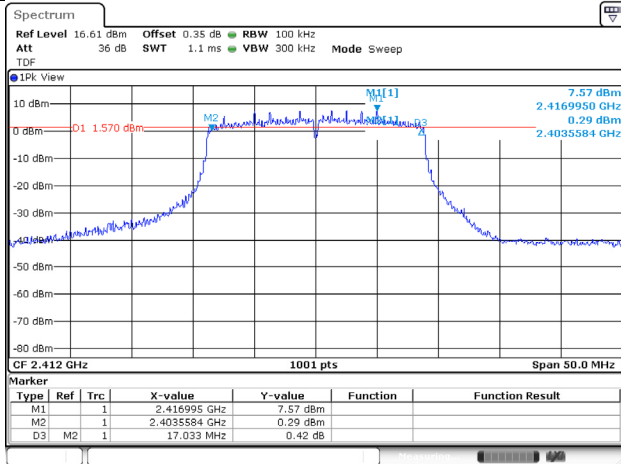
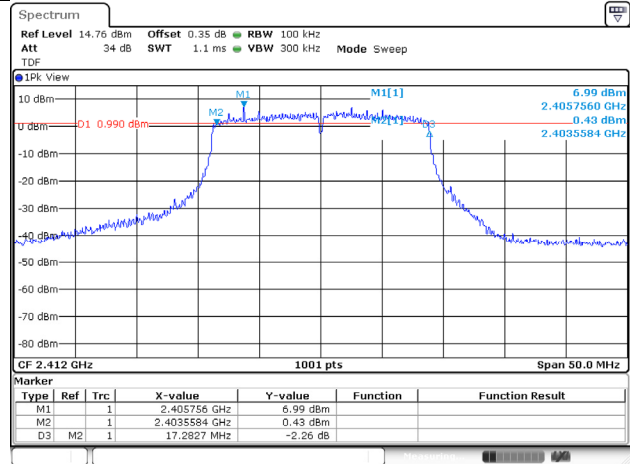
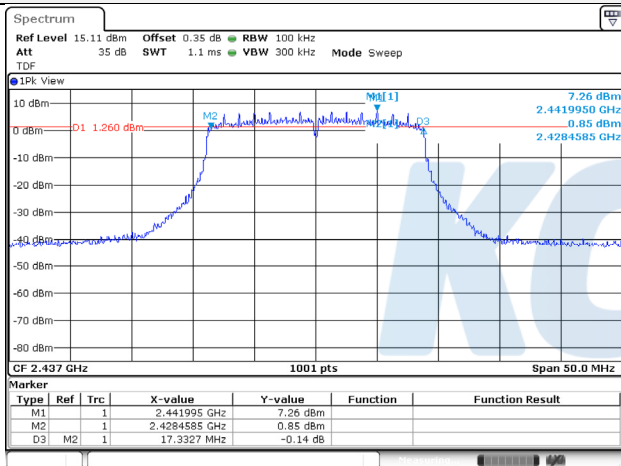
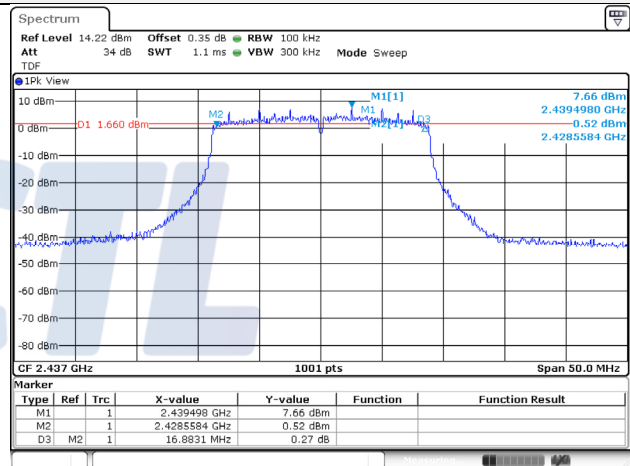
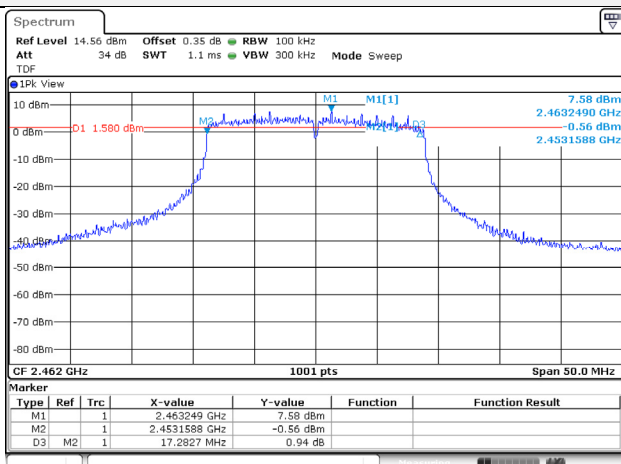
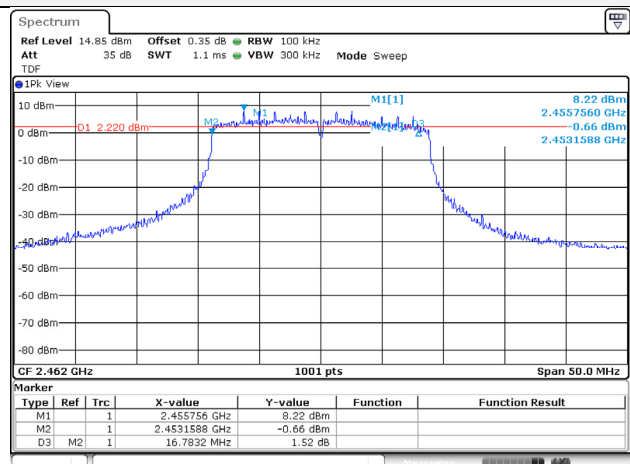
SISO

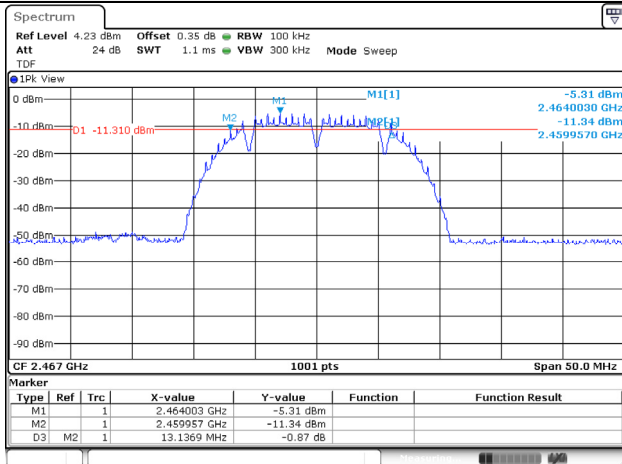
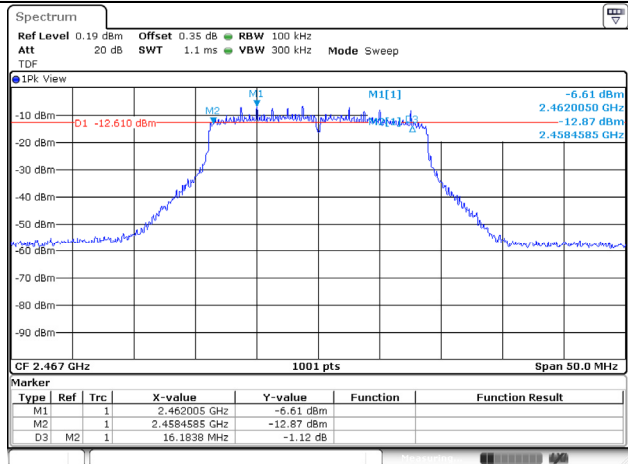
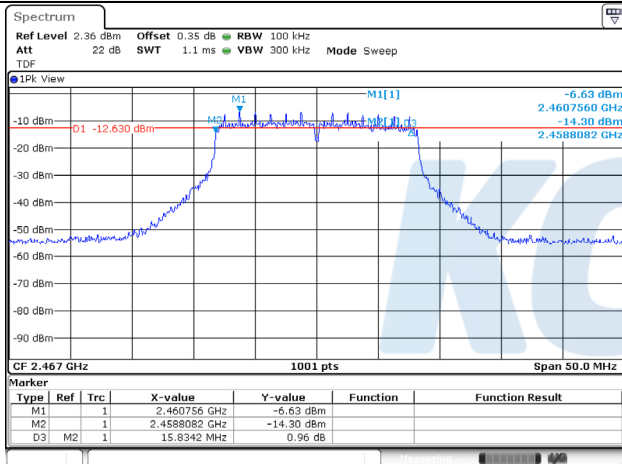
Test mode	Frequency(MHz)	6 dB bandwidth(MHz)
802.11b	2 412	8.14
	2 437	8.19
	2 462	8.14
	2 467	13.14
	2 472	13.09
802.11g	2 412	16.13
	2 437	15.83
	2 462	15.78
	2 467	15.83
	2 472	16.13
802.11n HT20	2 412	17.03
	2 437	17.33
	2 462	17.28
	2 467	16.18
	2 472	16.63
802.11ac VHT20	2 412	17.28
	2 437	16.88
	2 462	16.78
	2 467	16.78
	2 472	16.63

MIMO

Test mode	Frequency(MHz)	6 dB bandwidth(MHz)	
		ANT 1	ANT 2
802.11b	2 412	8.19	8.14
	2 437	8.19	8.19
	2 462	8.14	8.19
	2 467	12.64	13.14
	2 472	13.09	12.14
802.11g	2 412	15.78	16.03
	2 437	16.38	16.38
	2 462	16.13	15.78
	2 467	15.83	16.38
	2 472	16.38	15.78
802.11n HT20	2 412	17.08	17.23
	2 437	16.98	16.88
	2 462	16.23	17.03
	2 467	16.08	16.58
	2 472	16.63	16.03
802.11ac VHT20	2 412	16.63	16.63
	2 437	17.08	17.58
	2 462	16.03	17.28
	2 467	16.48	16.63
	2 472	17.23	16.38

SISO_ANT 2**802.11b / 2 412 MHz****802.11g / 2 412 MHz****802.11b / 2 437 MHz****802.11g / 2 437 MHz****802.11b / 2 462 MHz****802.11g / 2 462 MHz**

802.11n HT20 / 2 412 MHz**802.11ac VHT20 / 2 412 MHz****802.11n HT20 / 2 437 MHz****802.11ac VHT20 / 2 437 MHz****802.11n HT20 / 2 462 MHz****802.11ac VHT20 / 2 462 MHz**

802.11b / 2 467 MHz**802.11n HT20 / 2 467 MHz****802.11g / 2 467 MHz****802.11ac VHT20 / 2 467 MHz**