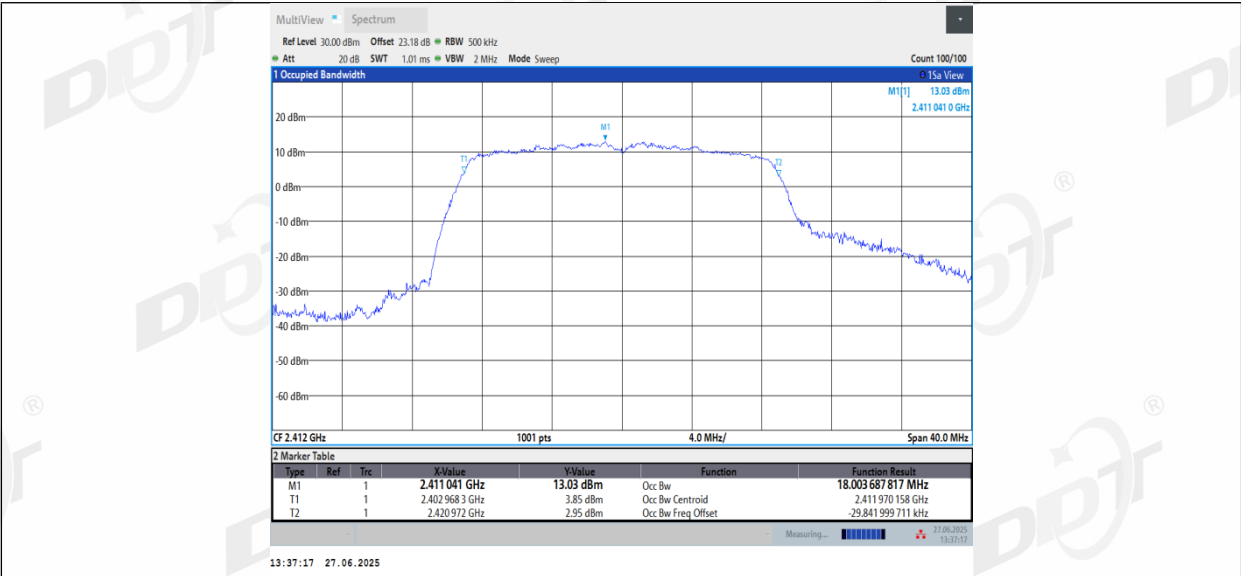
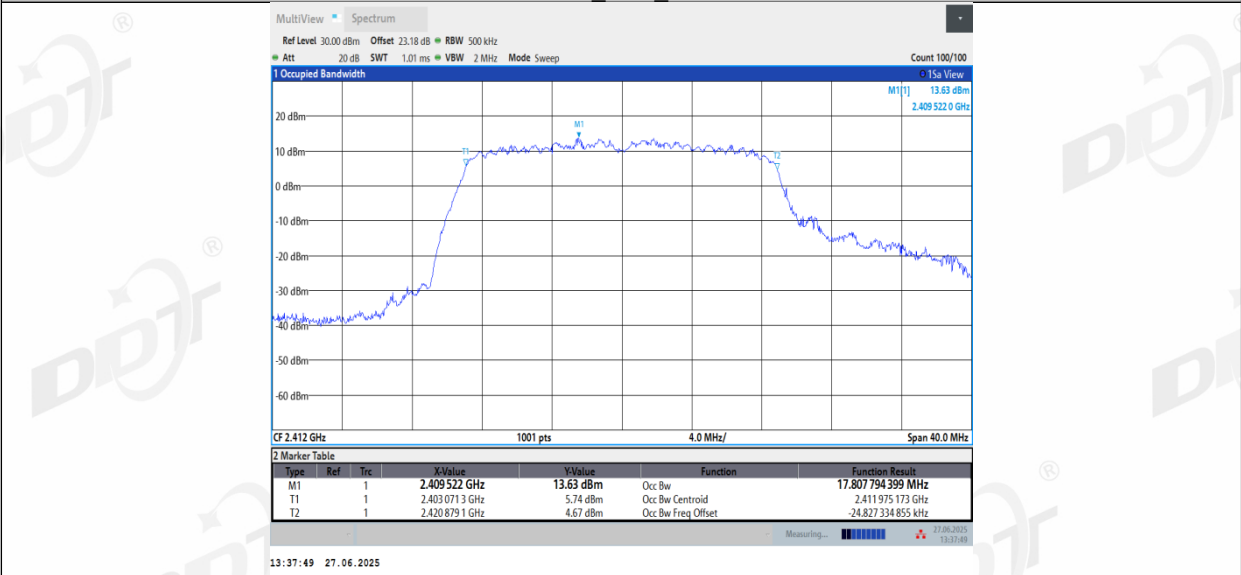
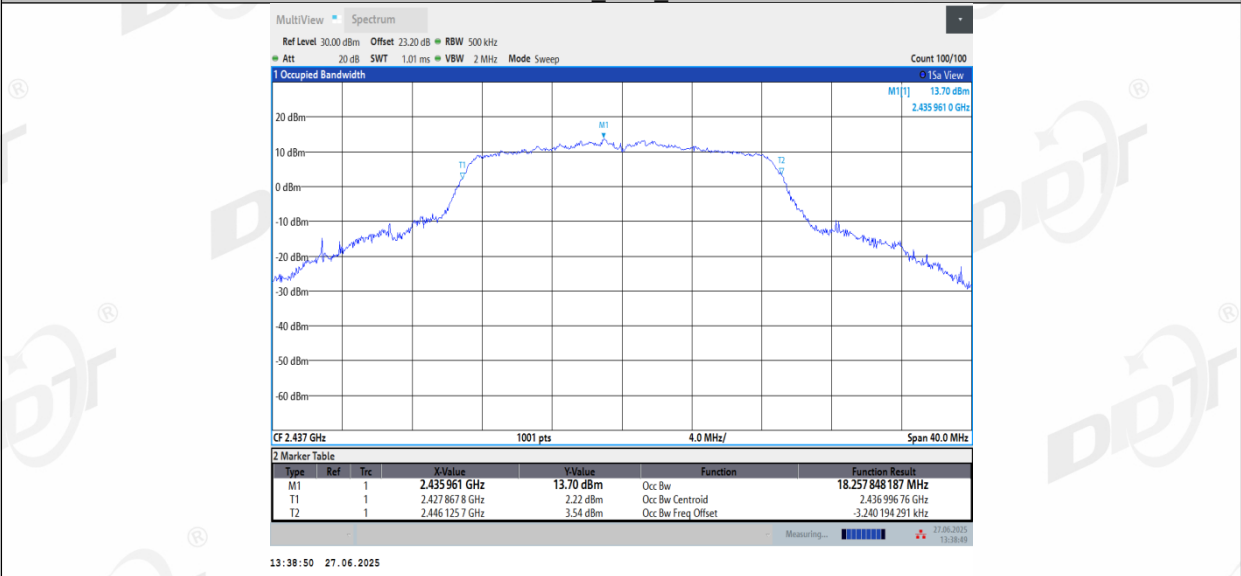




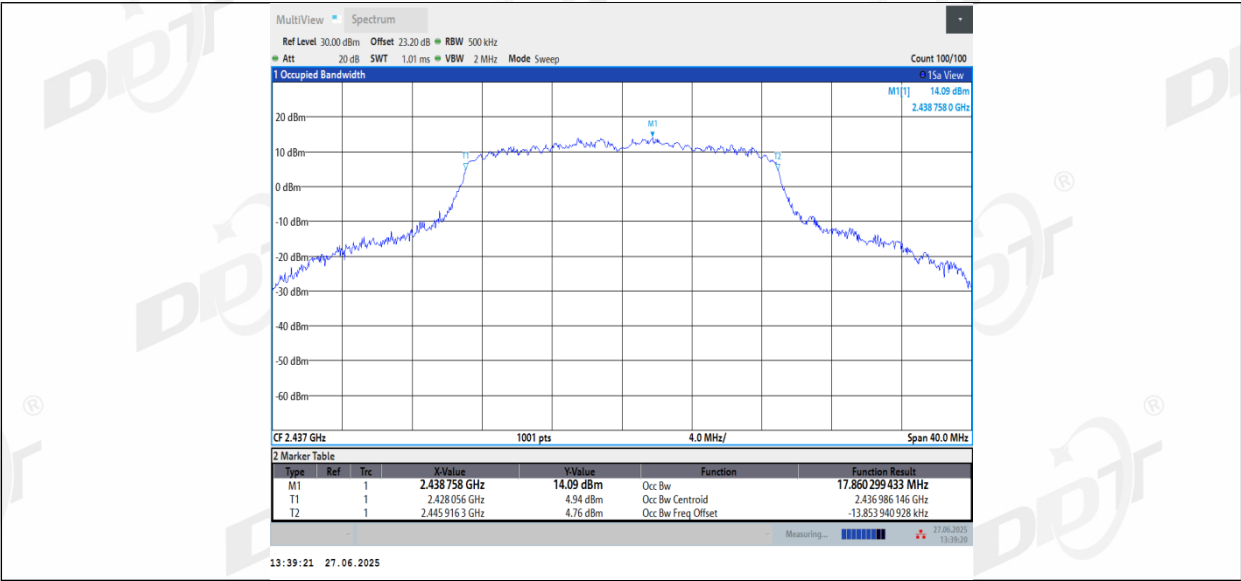
11N20_Ant2_2412



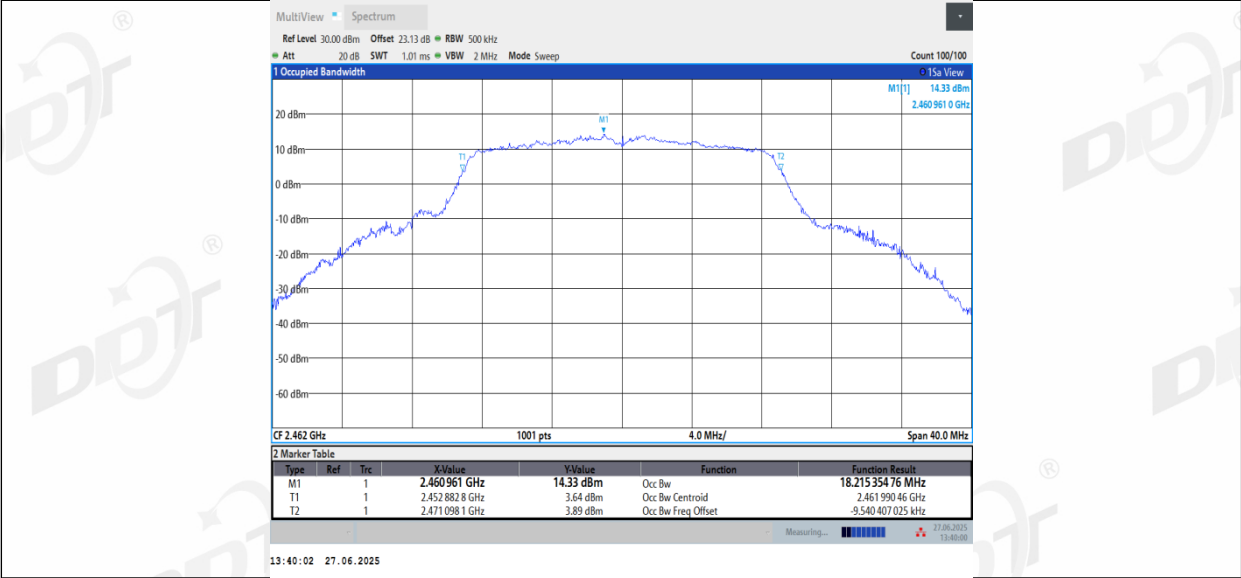
11N20_Ant1_2437



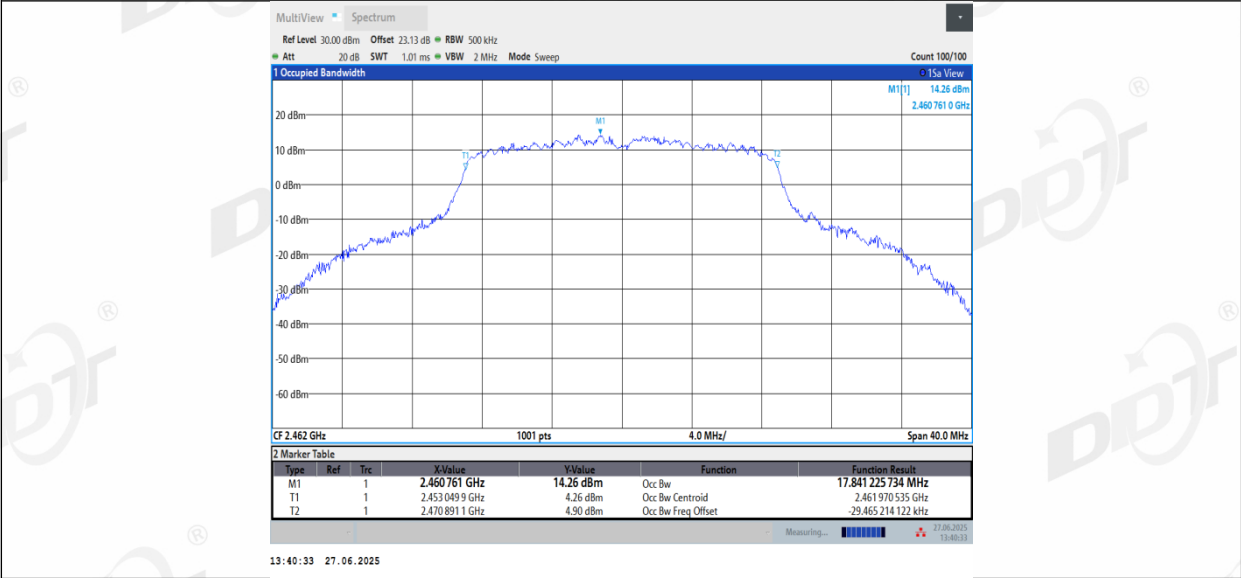
11N20_Ant2_2437



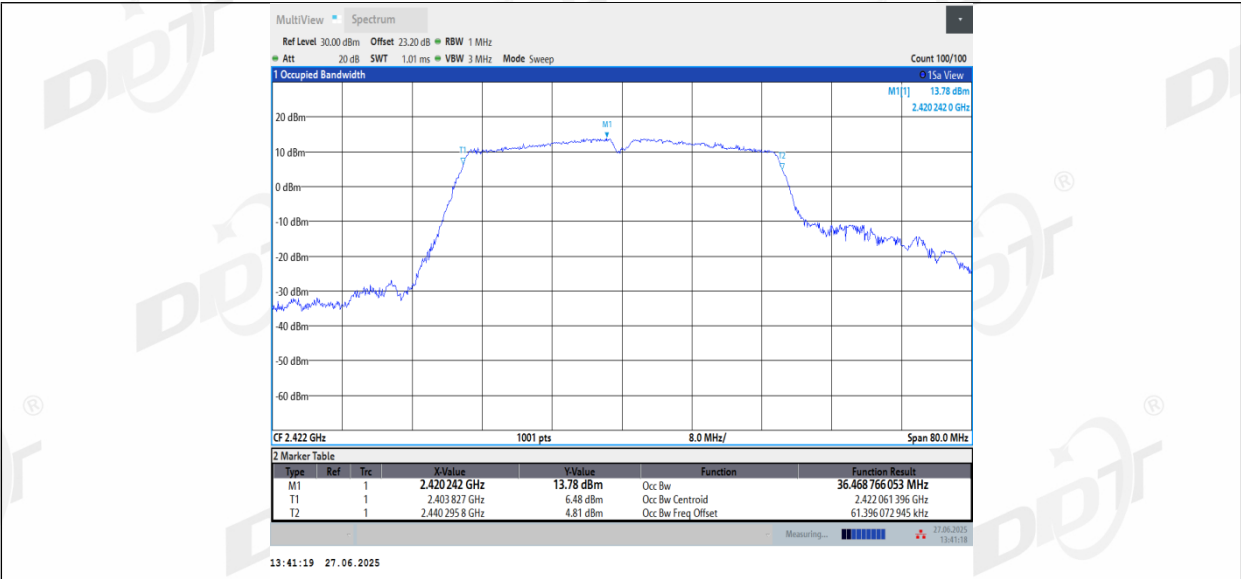
11N20_Ant1_2462



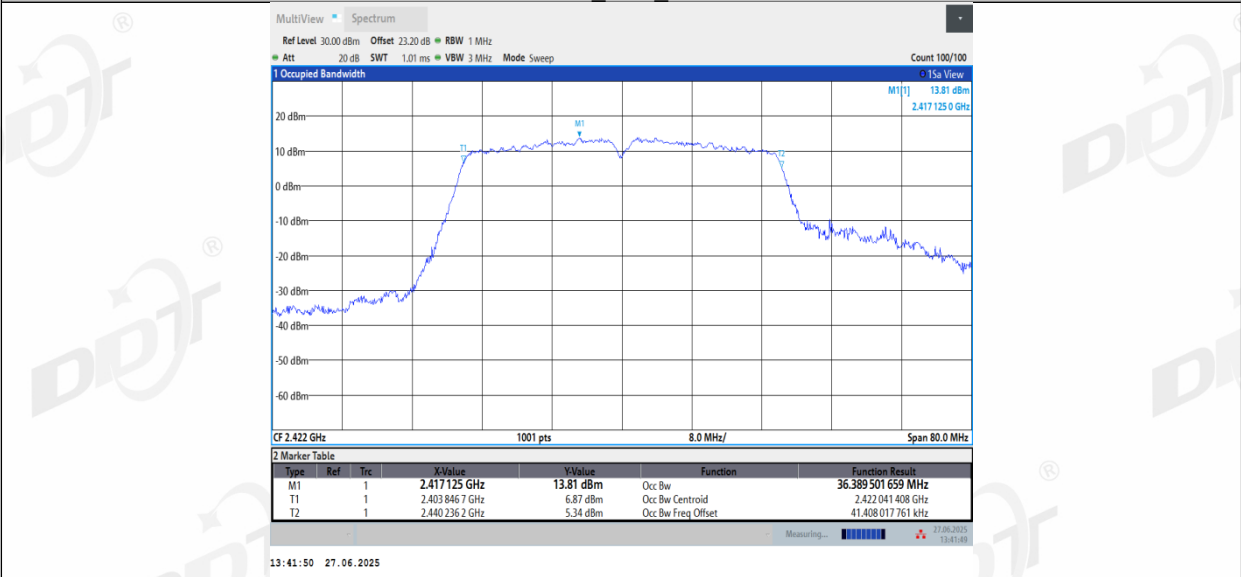
11N20_Ant2_2462



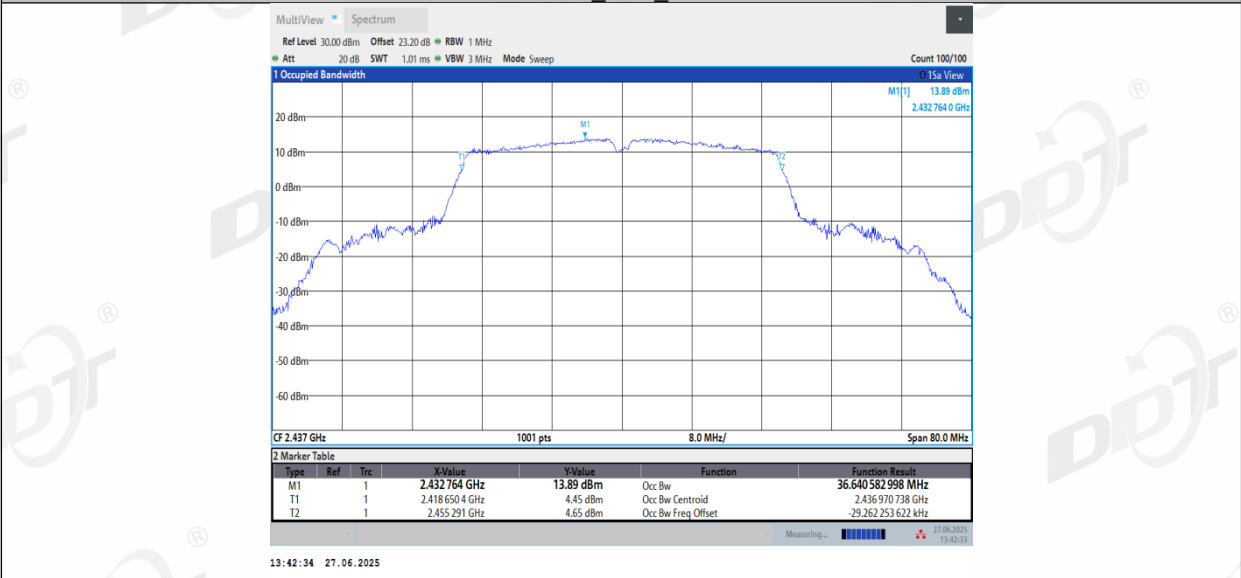
11N40_Ant1_2422



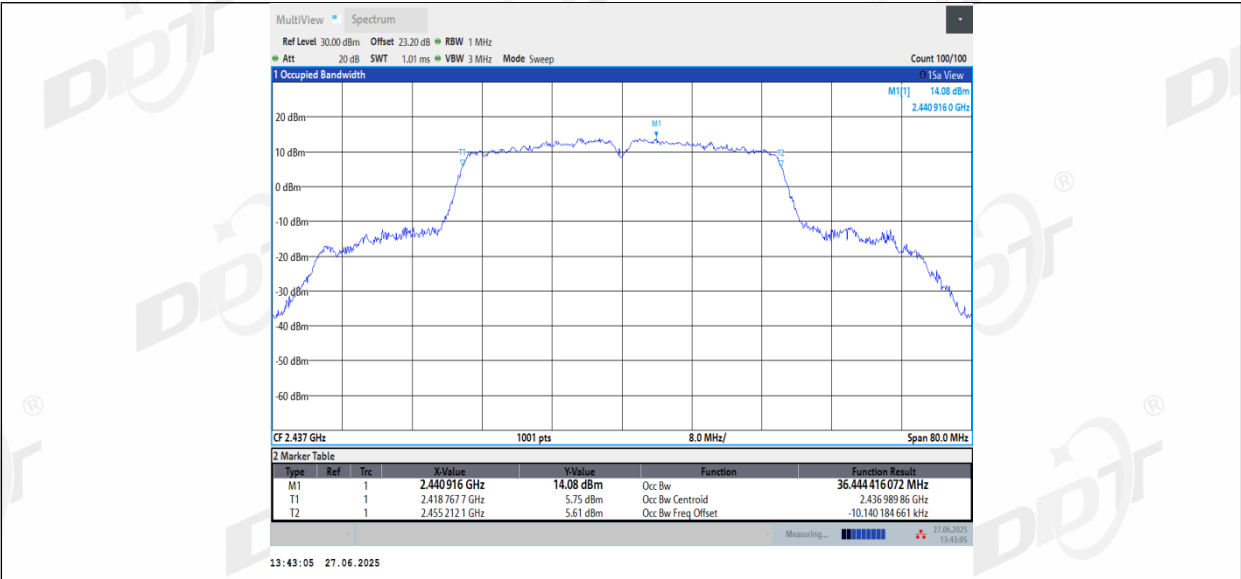
11N40_Ant2_2422



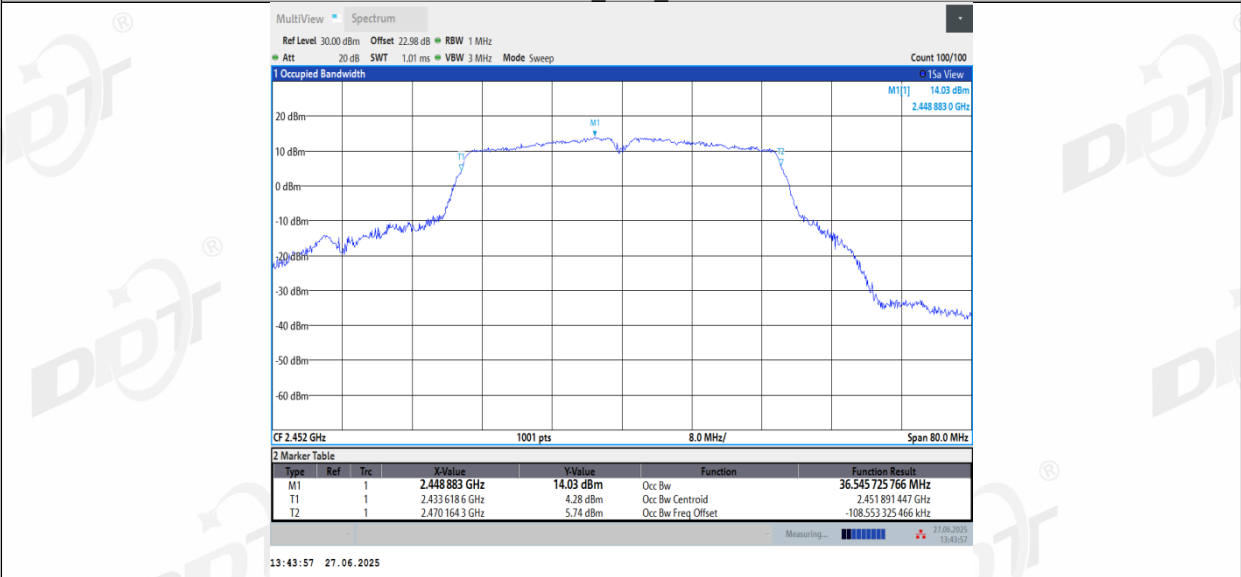
11N40_Ant1_2437



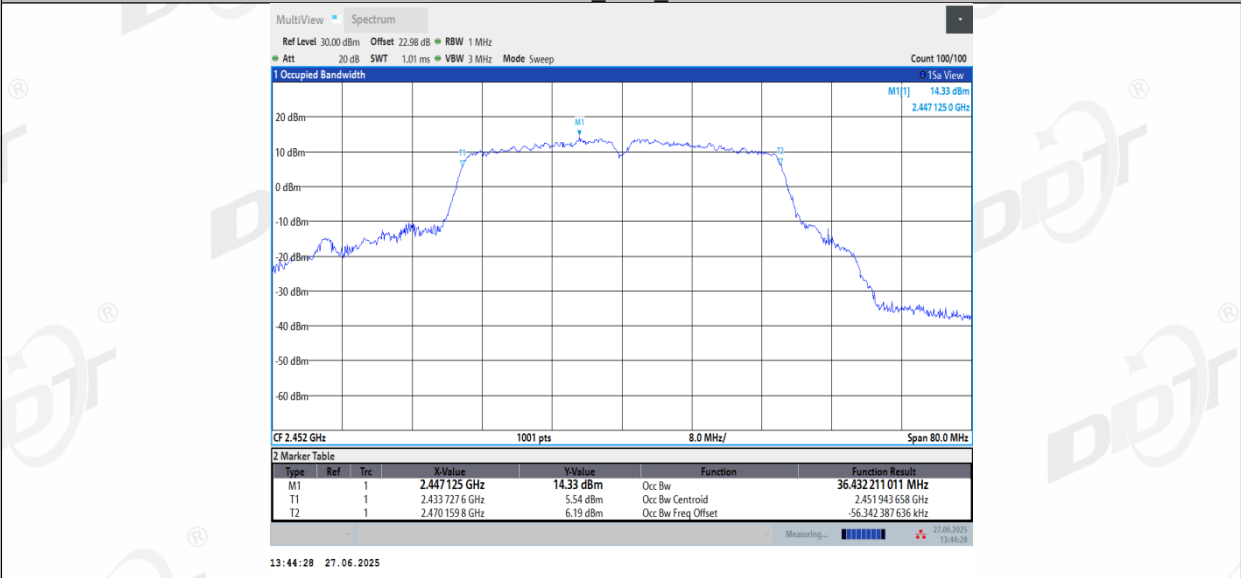
11N40_Ant2_2437



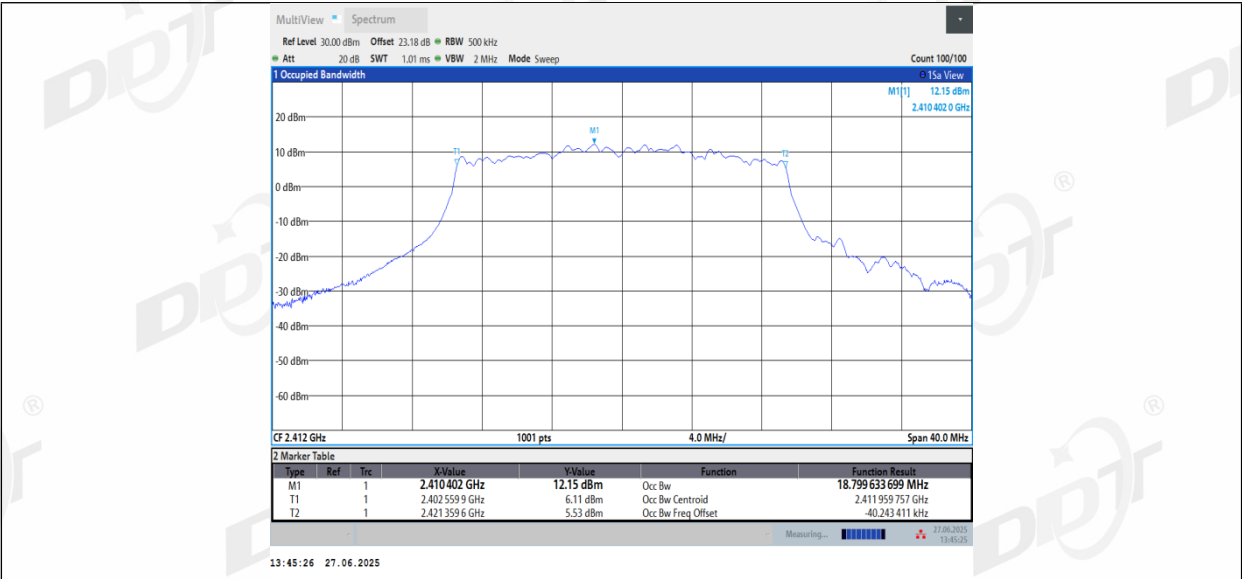
11N40_Ant1_2452



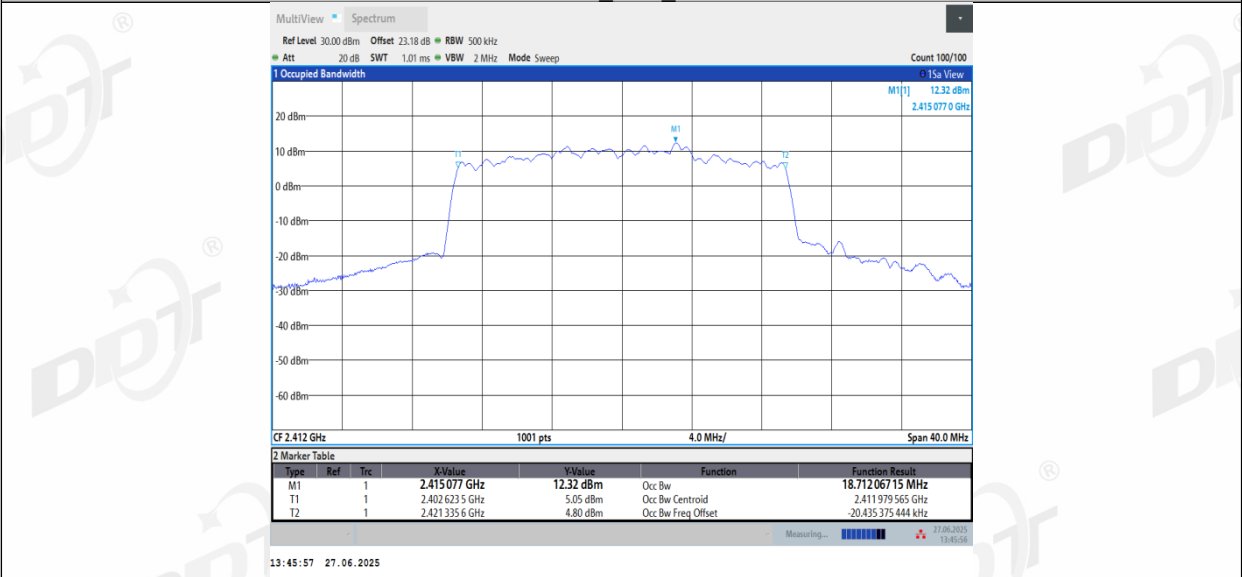
11N40_Ant2_2452



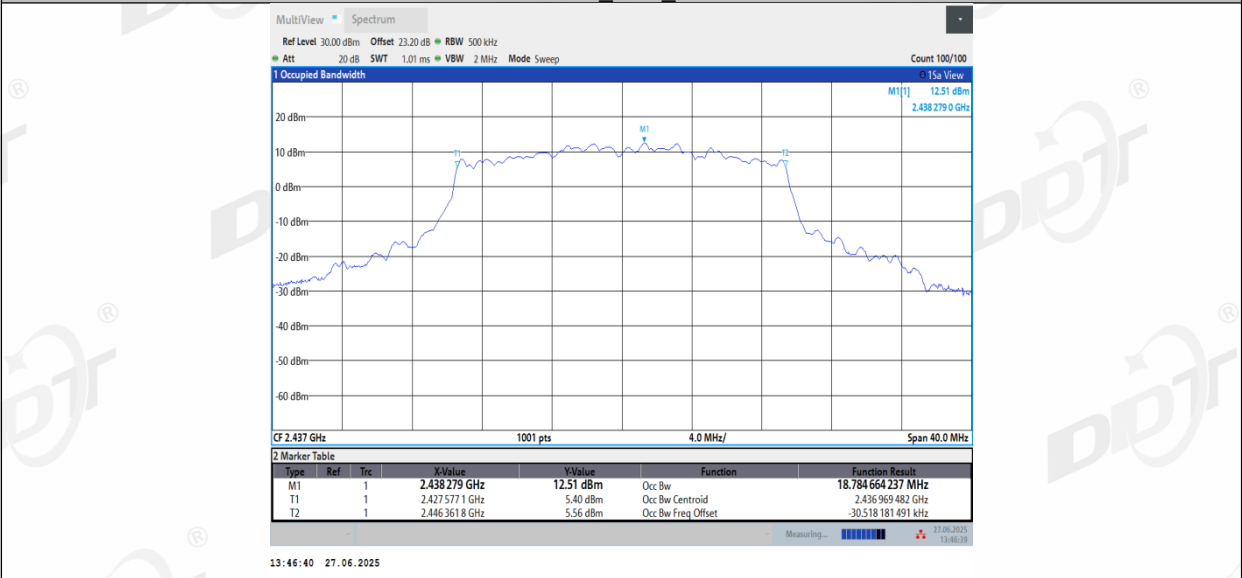
11AX20_Ant1_2412



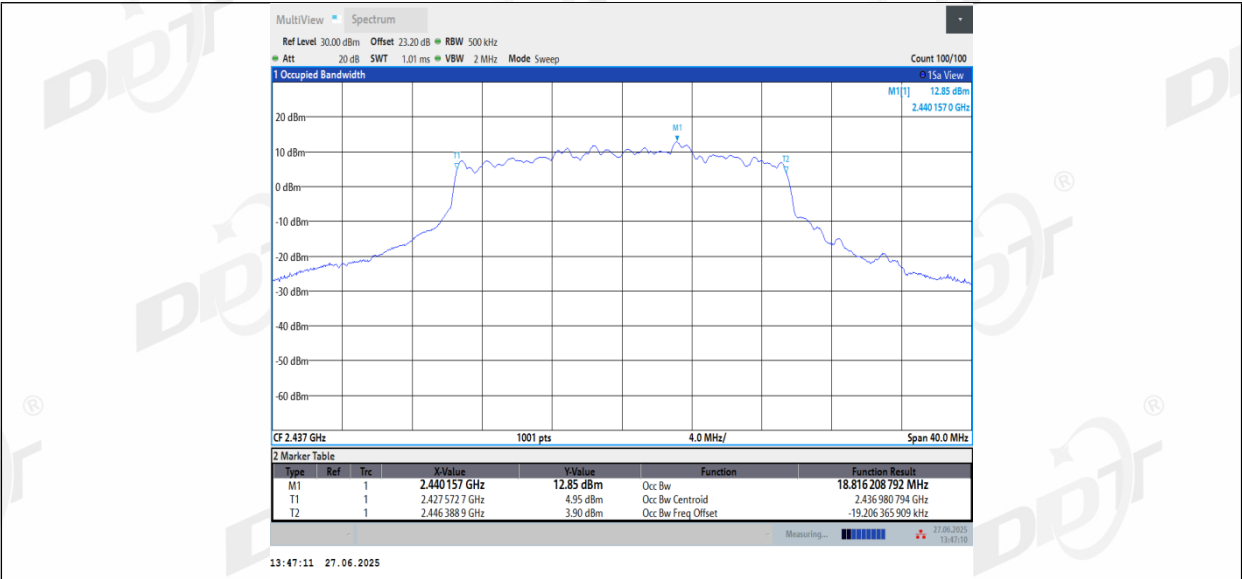
11AX20_Ant2_2412



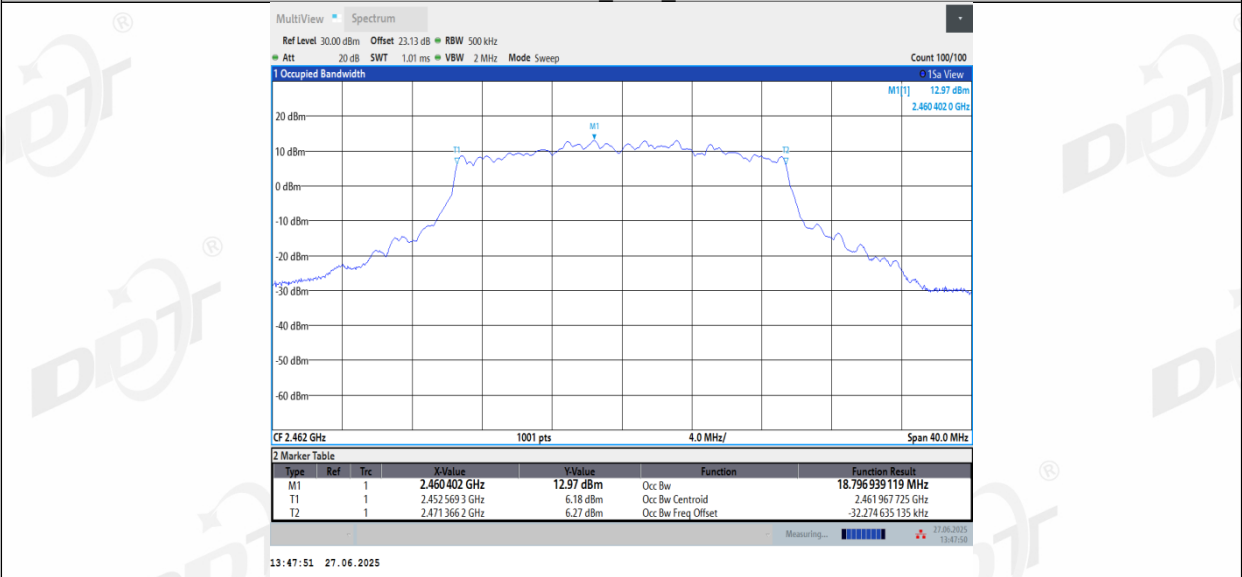
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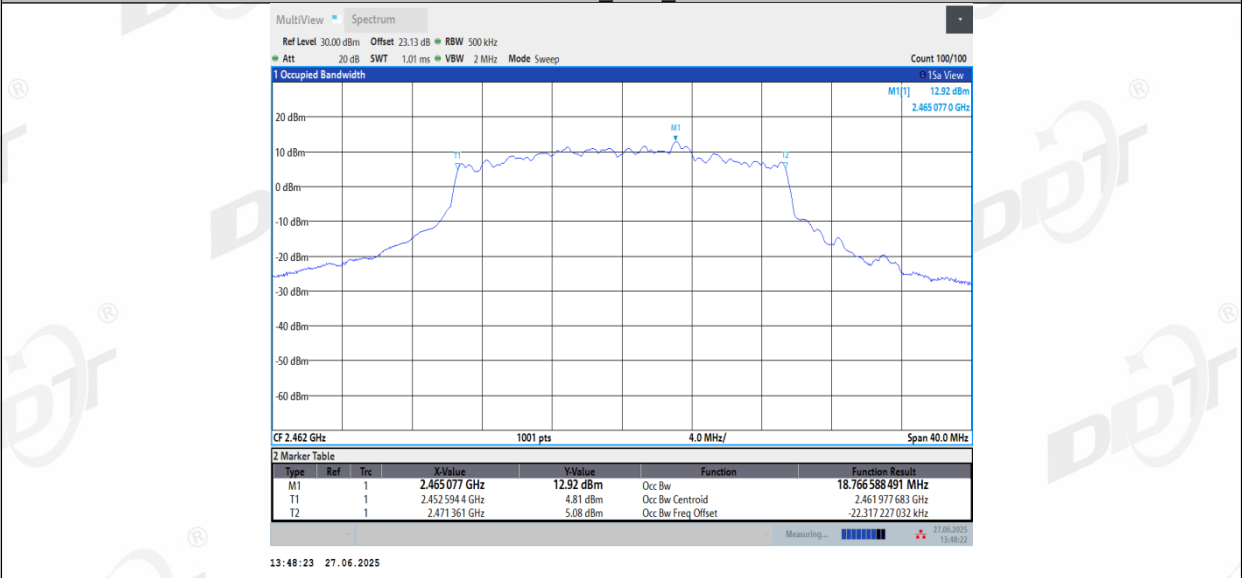
11AX20_Ant2_2437



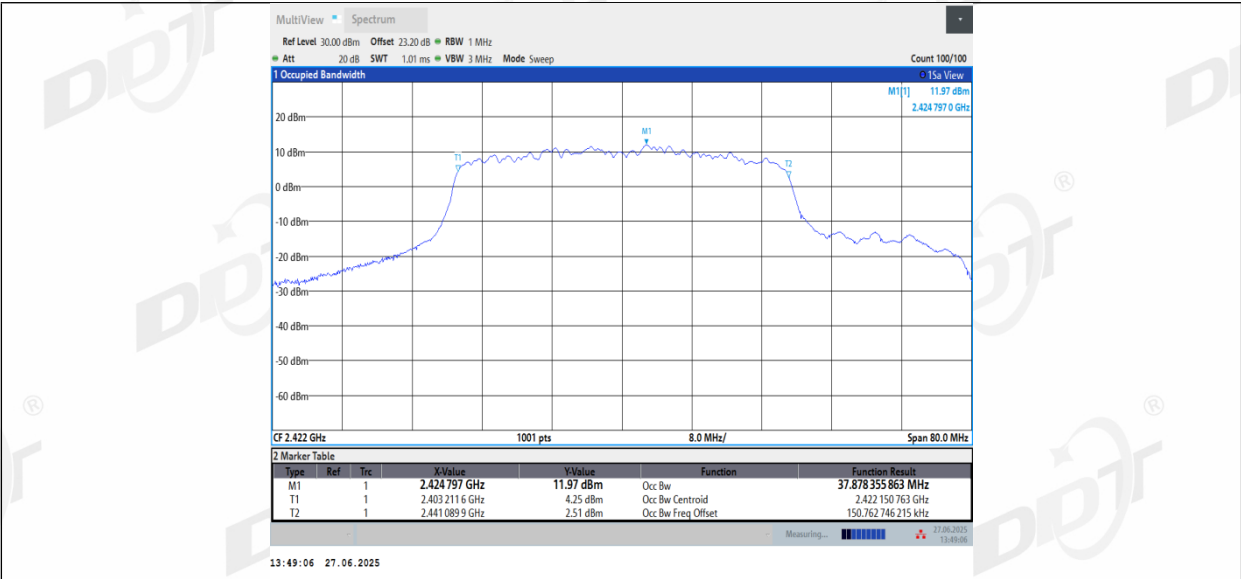
11AX20_Ant1_2462



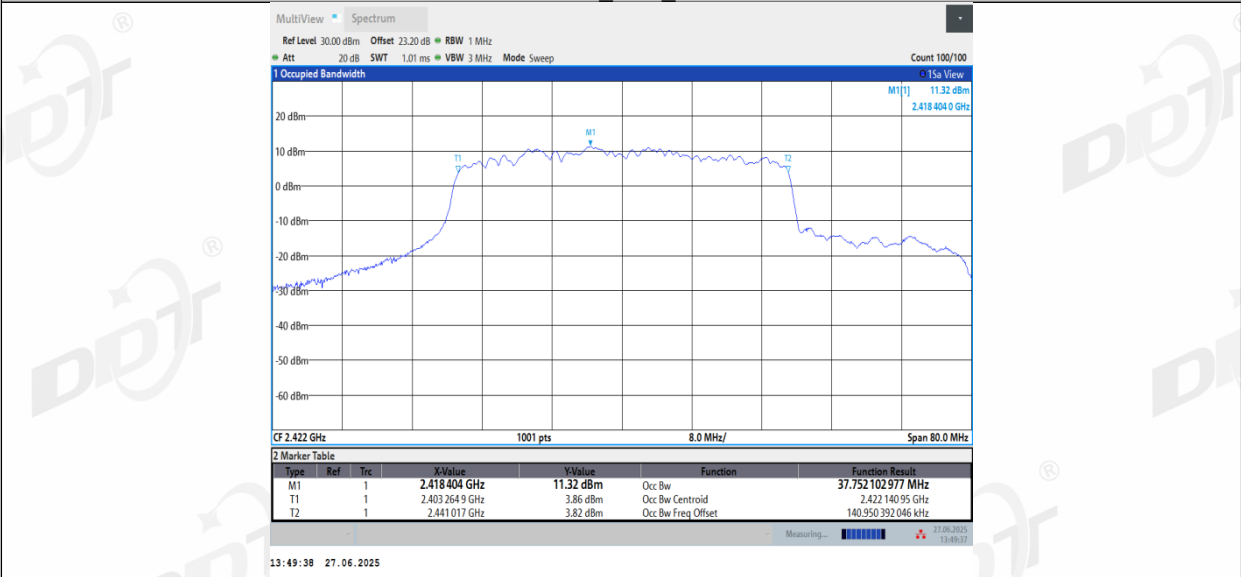
11AX20_Ant2_2462



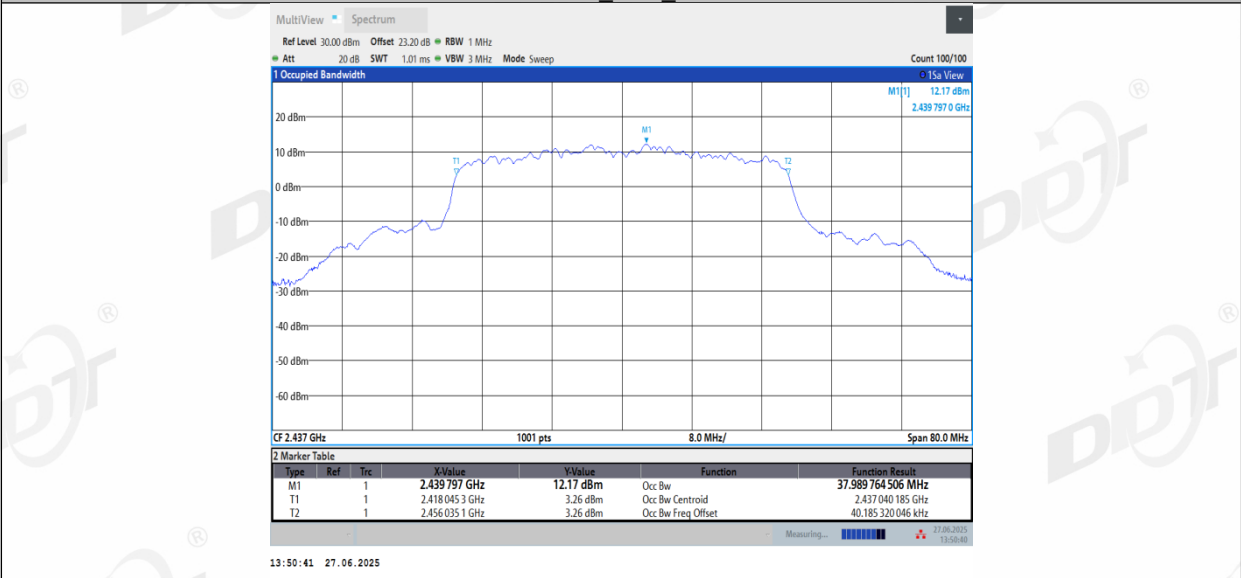
11AX40_Ant1_2422



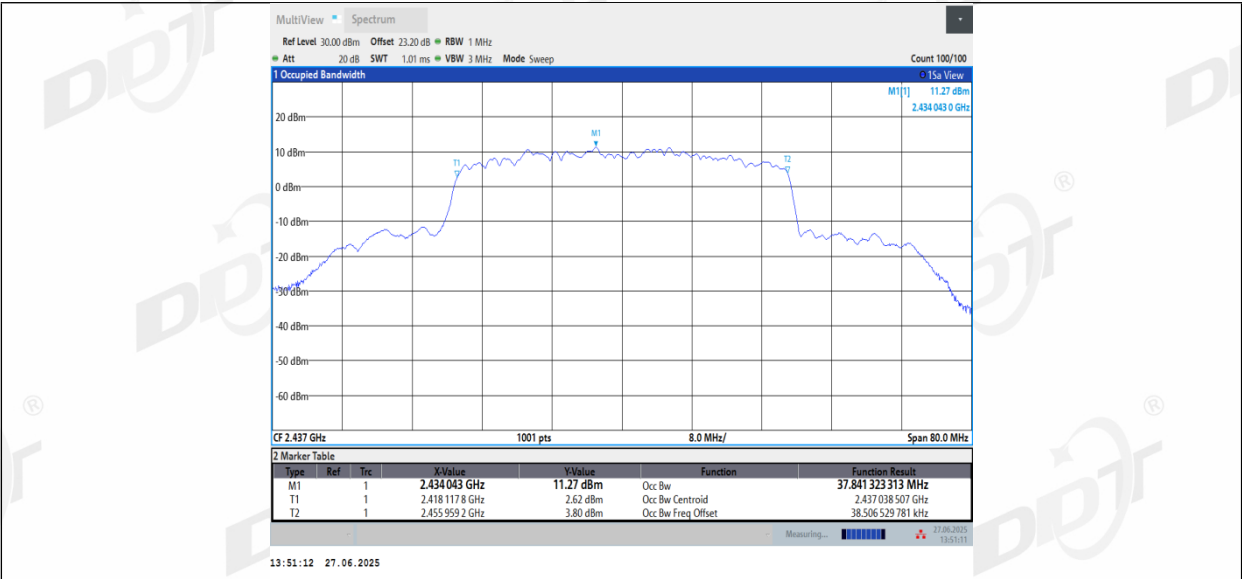
11AX40_Ant2_2422



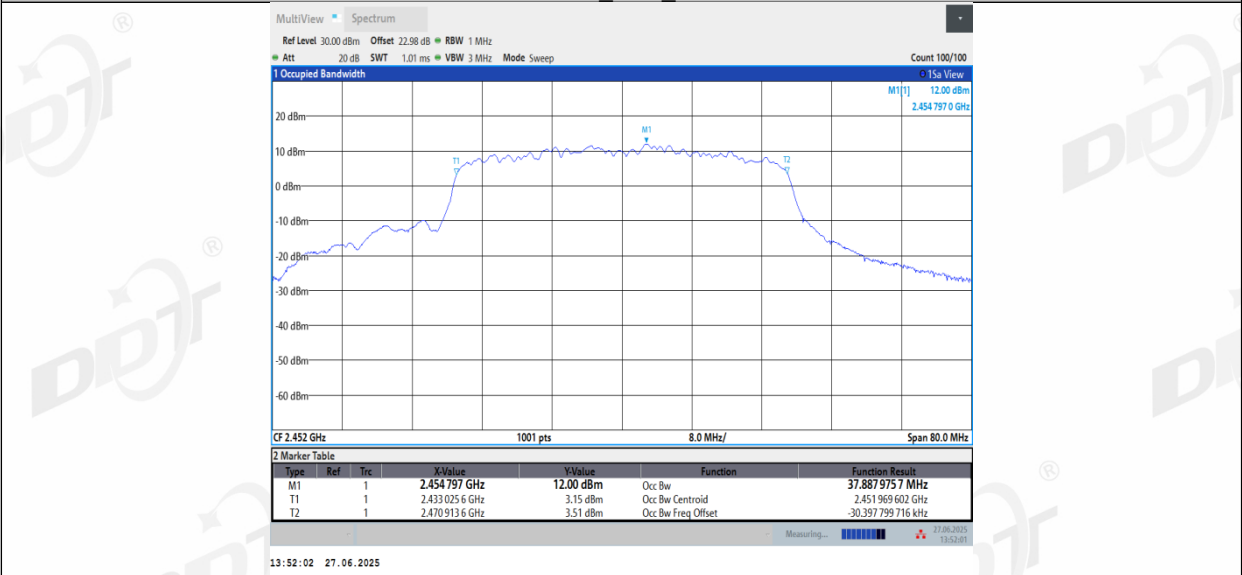
11AX40_Ant1_2437



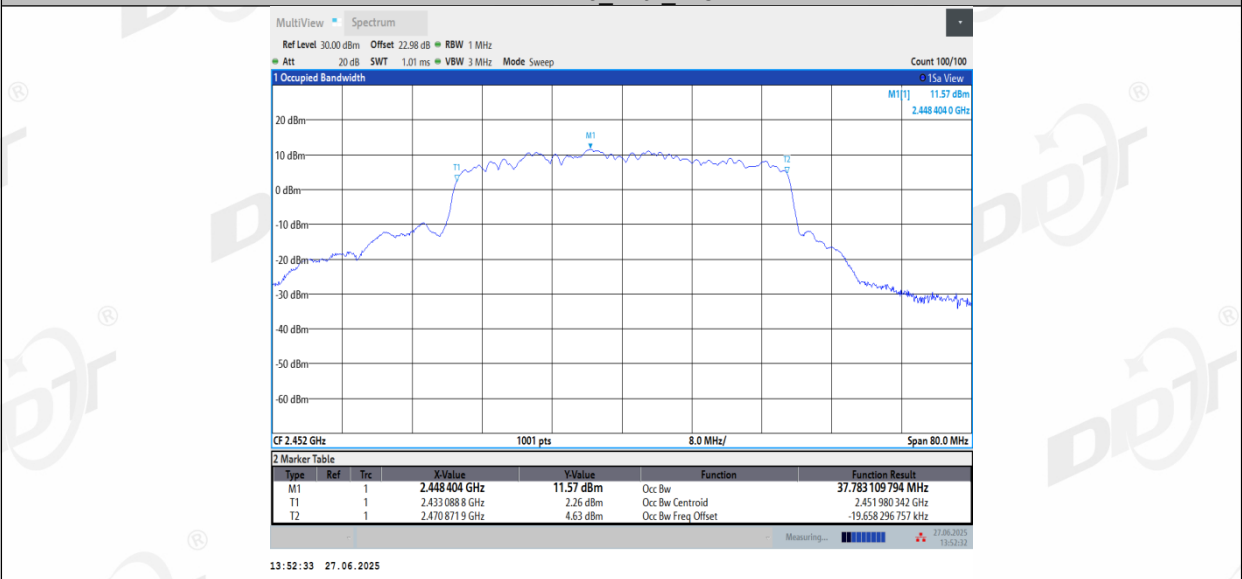
11AX40_Ant2_2437



11AX40_Ant1_2452

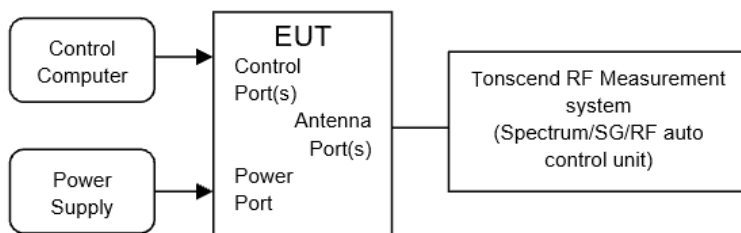


11AX40_Ant2_2452



6. Conducted Output Power

6.1. Block diagram of test setup



6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3. Test procedure

- (1) The test according to ANSI C63.10 clause 11.9.2.3.
- (2) Connect EUT's antenna output to RF power meter by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously, If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal.
- (4) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- (5) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.
- (6) Record the RF average power of each antenna port.

6.4. Test result average

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.6℃,43.1%RH	Test Date:	2025.06.27/2025.07.17
Test Power Supply:	AC120V/60Hz	Sample Number:	S25061924-003

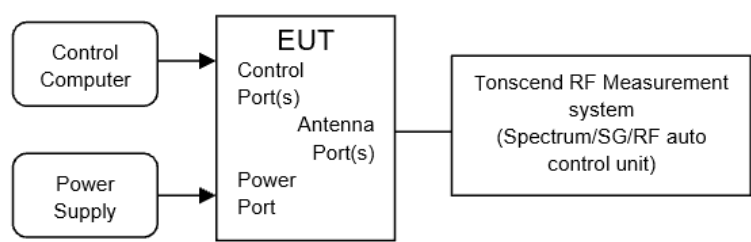
Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	23.62	99.53	0.02	23.64	≤30.00	26.74	≤36.00	PASS
	Ant2	2412	22.70	99.29	0.03	22.73	≤30.00	26.81	≤36.00	PASS
	Ant1	2437	23.55	99.29	0.03	23.58	≤30.00	26.68	≤36.00	PASS
	Ant2	2437	22.69	99.29	0.03	22.72	≤30.00	26.8	≤36.00	PASS
	Ant1	2462	24.05	99.41	0.03	24.08	≤30.00	27.18	≤36.00	PASS
	Ant2	2462	22.70	99.29	0.03	22.73	≤30.00	26.81	≤36.00	PASS
11G	Ant1	2412	19.77	96.55	0.15	19.92	≤30.00	23.02	≤36.00	PASS
	Ant2	2412	18.91	95.89	0.18	19.09	≤30.00	23.17	≤36.00	PASS
	Ant1	2437	19.80	95.89	0.18	19.98	≤30.00	23.08	≤36.00	PASS
	Ant2	2437	18.93	95.86	0.18	19.11	≤30.00	23.19	≤36.00	PASS
	Ant1	2462	20.23	95.86	0.18	20.41	≤30.00	23.51	≤36.00	PASS
	Ant2	2462	19.05	96.55	0.15	19.20	≤30.00	23.28	≤36.00	PASS
11N20MIMO	Ant1	2412	19.24	91.89	0.37	19.61	≤30.00	22.71	≤36.00	PASS
	Ant2	2412	18.19	91.78	0.37	18.56	≤30.00	22.64	≤36.00	PASS
	total	2412	---	---	---	22.13	≤30.00	26.21	≤36.00	PASS
	Ant1	2437	19.22	91.89	0.37	19.59	≤30.00	22.69	≤36.00	PASS
	Ant2	2437	18.36	91.78	0.37	18.73	≤30.00	22.81	≤36.00	PASS
	total	2437	---	---	---	22.19	≤30.00	26.27	≤36.00	PASS
	Ant1	2462	19.74	91.89	0.37	20.11	≤30.00	23.21	≤36.00	PASS
	Ant2	2462	18.44	91.78	0.37	18.81	≤30.00	22.89	≤36.00	PASS
11N40MIMO	total	2462	---	---	---	22.52	≤30.00	26.6	≤36.00	PASS
	Ant1	2422	17.58	85.00	0.71	18.29	≤30.00	21.39	≤36.00	PASS
	Ant2	2422	16.60	85.00	0.71	17.31	≤30.00	21.39	≤36.00	PASS
	total	2422	---	---	---	20.84	≤30.00	24.92	≤36.00	PASS
	Ant1	2437	17.55	85.00	0.71	18.26	≤30.00	21.36	≤36.00	PASS
	Ant2	2437	16.62	85.00	0.71	17.33	≤30.00	21.41	≤36.00	PASS
	total	2437	---	---	---	20.83	≤30.00	24.91	≤36.00	PASS
	Ant1	2452	17.60	85.00	0.71	18.31	≤30.00	21.41	≤36.00	PASS
11AX20MIMO	Ant2	2452	16.73	85.00	0.71	17.44	≤30.00	21.52	≤36.00	PASS
	total	2452	---	---	---	20.91	≤30.00	24.99	≤36.00	PASS
	Ant1	2412	18.56	76.92	1.14	19.70	≤30.00	22.8	≤36.00	PASS
	Ant2	2412	17.66	76.92	1.14	18.80	≤30.00	22.88	≤36.00	PASS
	total	2412	---	---	---	22.28	≤30.00	26.36	≤36.00	PASS
	Ant1	2437	18.53	76.92	1.14	19.67	≤30.00	22.77	≤36.00	PASS
	Ant2	2437	17.64	76.92	1.14	18.78	≤30.00	22.86	≤36.00	PASS
	total	2437	---	---	---	22.26	≤30.00	26.34	≤36.00	PASS
11AX40MIMO	Ant1	2462	18.99	76.92	1.14	20.13	≤30.00	23.23	≤36.00	PASS
	Ant2	2462	17.83	76.92	1.14	18.97	≤30.00	23.05	≤36.00	PASS
	total	2462	---	---	---	22.60	≤30.00	26.68	≤36.00	PASS
	Ant1	2422	18.35	76.92	1.14	19.49	≤30.00	22.59	≤36.00	PASS
	Ant2	2422	17.41	76.92	1.14	18.55	≤30.00	22.63	≤36.00	PASS
	total	2422	---	---	---	22.06	≤30.00	26.14	≤36.00	PASS
	Ant1	2437	18.26	76.92	1.14	19.40	≤30.00	22.5	≤36.00	PASS
	Ant2	2437	17.28	76.92	1.14	18.42	≤30.00	22.5	≤36.00	PASS
	total	2437	---	---	---	21.95	≤30.00	26.03	≤36.00	PASS
	Ant1	2452	18.31	76.92	1.14	19.45	≤30.00	22.55	≤36.00	PASS
	Ant2	2452	17.43	76.92	1.14	18.57	≤30.00	22.65	≤36.00	PASS
	total	2452	---	---	---	22.04	≤30.00	26.12	≤36.00	PASS

Note1: EIRP (dBm)=Conducted Output Power (dBm)+ Antenna Gain (dBi)

Note2: The limit and EIRP caculation for MIMO results refer to the stricter antenna gain 4.08dBi.

7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. Test procedure

- (1) The test according to ANSI C63.10 clause 11.10.5.
- (2) Connect EUT’s antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for Power Spectral Density measurement:

Center frequency	DTS Channel center frequency
RBW:	$3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	RMS
Sweep time:	auto
Trace mode	max hold
	Employ trace averaging (rms)
Trace	mode over a minimum of 100 traces.

- (5) Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.4. Test result

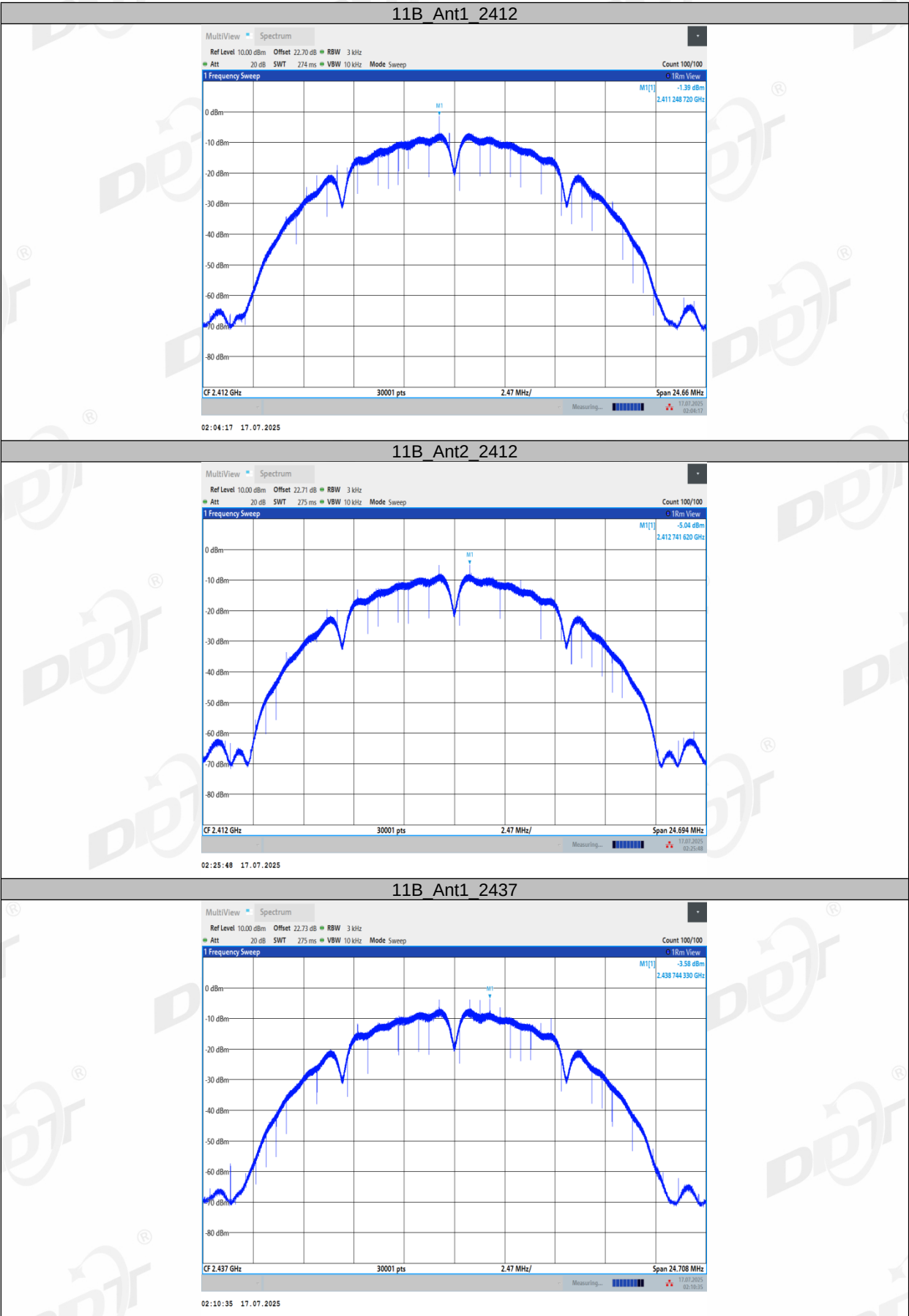
Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.6℃,43.1%RH	Test Date:	2025.06.27/2025.07.17
Test Power Supply:	AC120V/60Hz	Sample Number:	S25061924-003

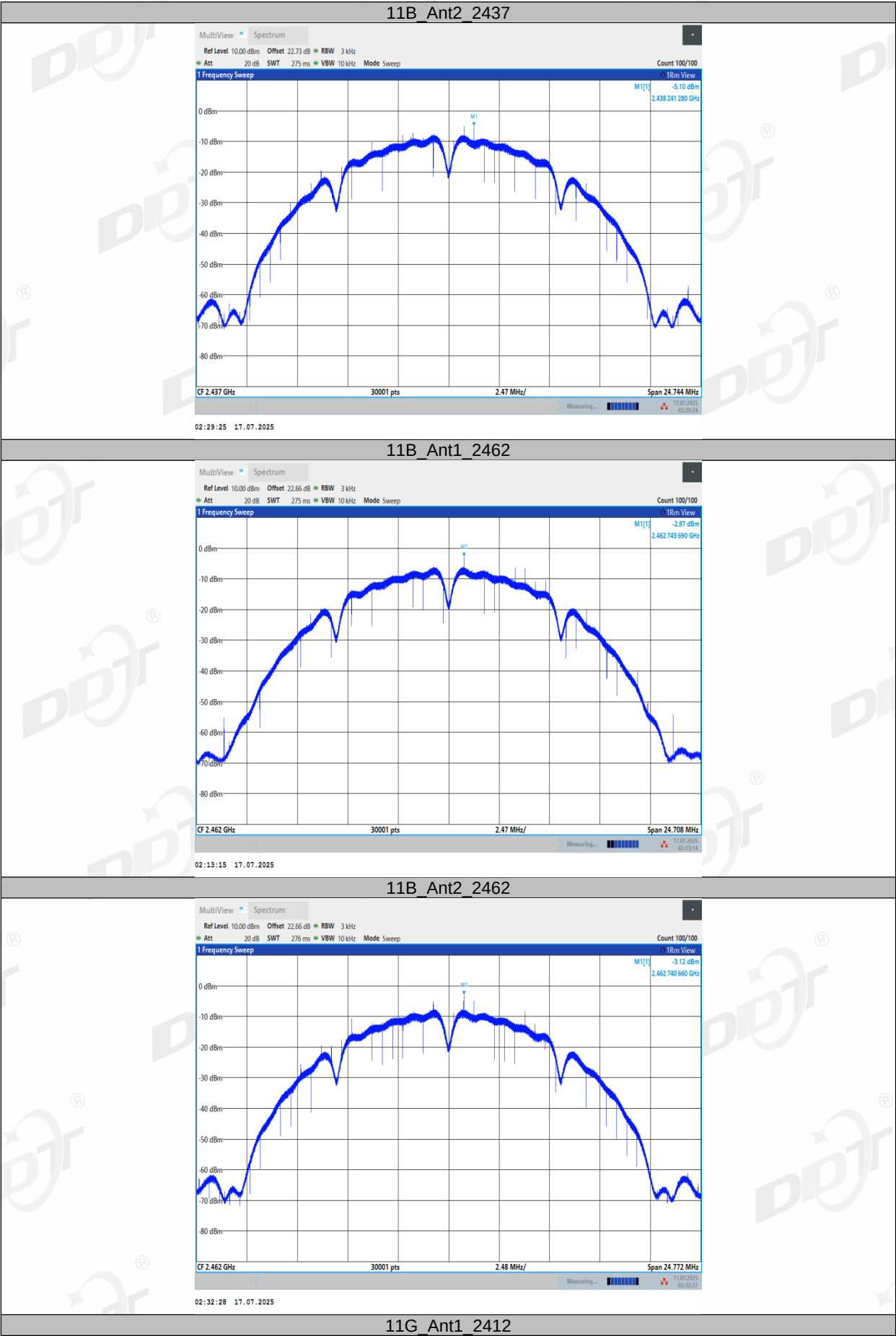
Test Mode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-1.39	≤8.00	PASS
	Ant2	2412	-5.04	≤8.00	PASS
	Ant1	2437	-3.58	≤8.00	PASS
	Ant2	2437	-5.10	≤8.00	PASS
	Ant1	2462	-2.97	≤8.00	PASS
	Ant2	2462	-3.12	≤8.00	PASS
11G	Ant1	2412	-11.47	≤8.00	PASS
	Ant2	2412	-12.59	≤8.00	PASS
	Ant1	2437	-10.72	≤8.00	PASS
	Ant2	2437	-12.27	≤8.00	PASS
	Ant1	2462	-10.44	≤8.00	PASS
	Ant2	2462	-12.03	≤8.00	PASS
11N20MIMO	Ant1	2412	-12.24	≤8.00	PASS
	Ant2	2412	-13.62	≤8.00	PASS
	total	2412	-9.87	≤8.00	PASS
	Ant1	2437	-12.29	≤8.00	PASS
	Ant2	2437	-13.06	≤8.00	PASS
	total	2437	-9.65	≤8.00	PASS
	Ant1	2462	-11.35	≤8.00	PASS
	Ant2	2462	-12.96	≤8.00	PASS
	total	2462	-9.07	≤8.00	PASS
11N40MIMO	Ant1	2422	-14.81	≤8.00	PASS
	Ant2	2422	-16.73	≤8.00	PASS
	total	2422	-12.65	≤8.00	PASS
	Ant1	2437	-15.06	≤8.00	PASS
	Ant2	2437	-16.38	≤8.00	PASS
	total	2437	-12.66	≤8.00	PASS
	Ant1	2452	-15.13	≤8.00	PASS
	Ant2	2452	-16.12	≤8.00	PASS
	total	2452	-12.59	≤8.00	PASS
11AX20MIMO	Ant1	2412	-9.31	≤8.00	PASS
	Ant2	2412	-11.21	≤8.00	PASS
	total	2412	-7.15	≤8.00	PASS
	Ant1	2437	-9.37	≤8.00	PASS
	Ant2	2437	-11.07	≤8.00	PASS
	total	2437	-7.13	≤8.00	PASS
	Ant1	2462	-8.83	≤8.00	PASS
	Ant2	2462	-11.25	≤8.00	PASS
	total	2462	-6.86	≤8.00	PASS
11AX40MIMO	Ant1	2422	-12.33	≤8.00	PASS
	Ant2	2422	-13.54	≤8.00	PASS
	total	2422	-9.88	≤8.00	PASS
	Ant1	2437	-12.20	≤8.00	PASS
	Ant2	2437	-13.83	≤8.00	PASS
	total	2437	-9.93	≤8.00	PASS
	Ant1	2452	-12.11	≤8.00	PASS
	Ant2	2452	-13.31	≤8.00	PASS
	total	2452	-9.66	≤8.00	PASS

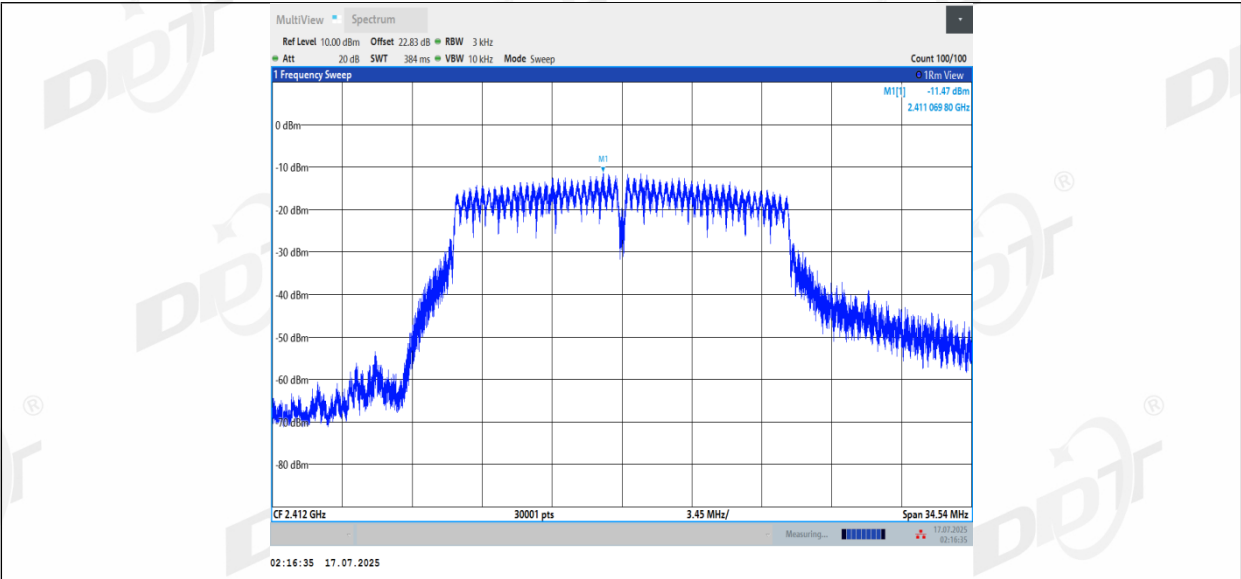
Note1: The Duty Cycle Factor is compensated in the graph.

Note2: The limit and EIRP caculation for MIMO results refer to the stricter antenna gain 4.08dBi.

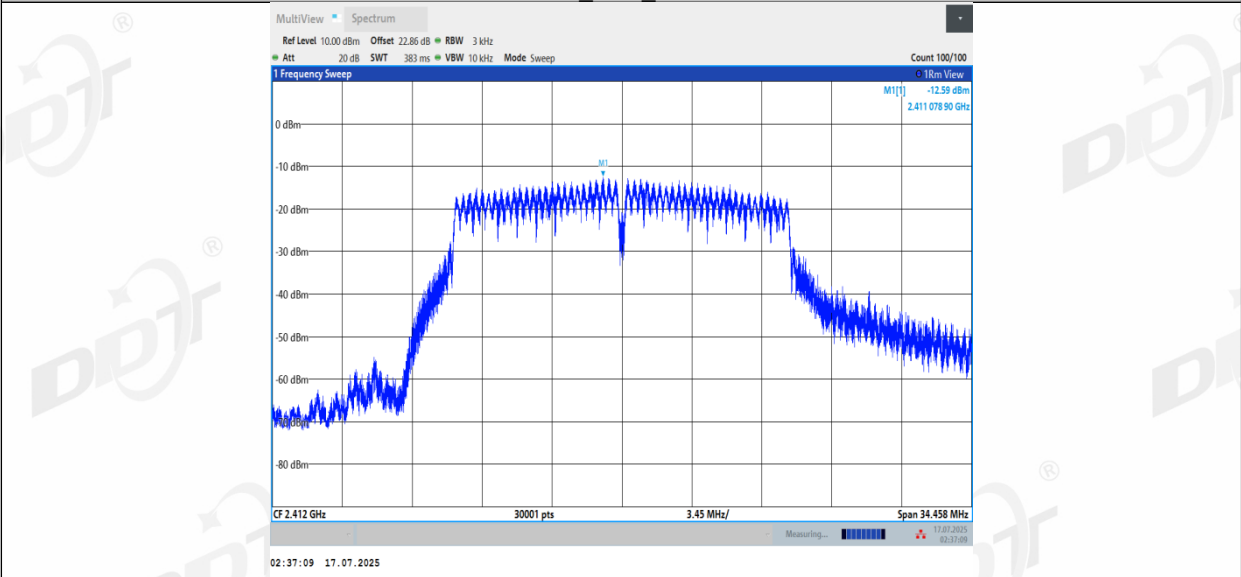
7.5. Test graphs



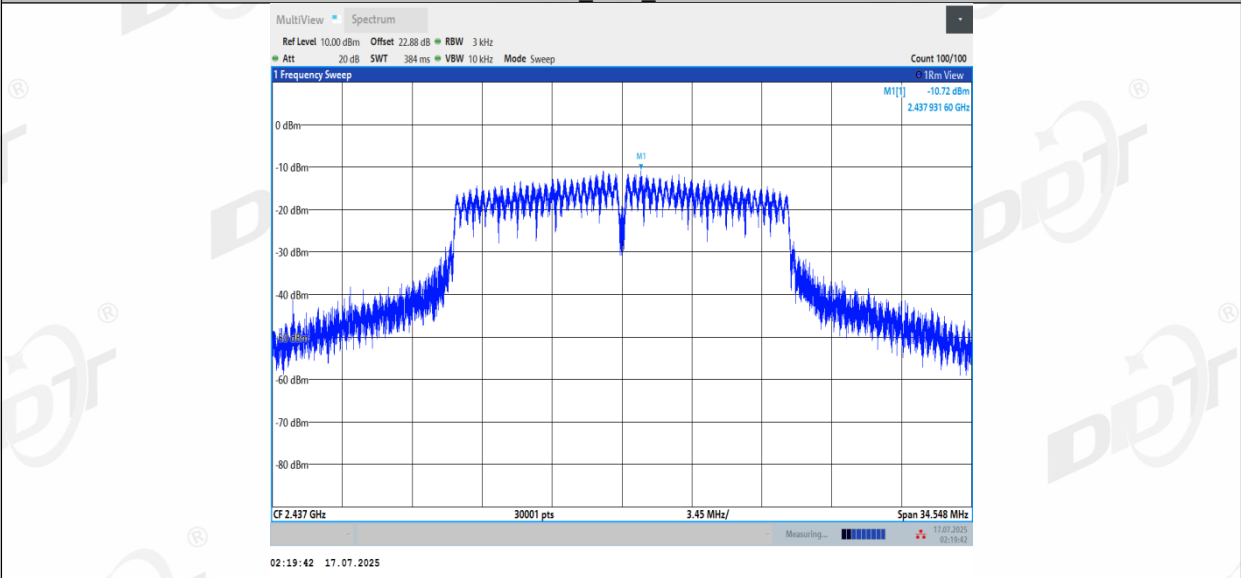




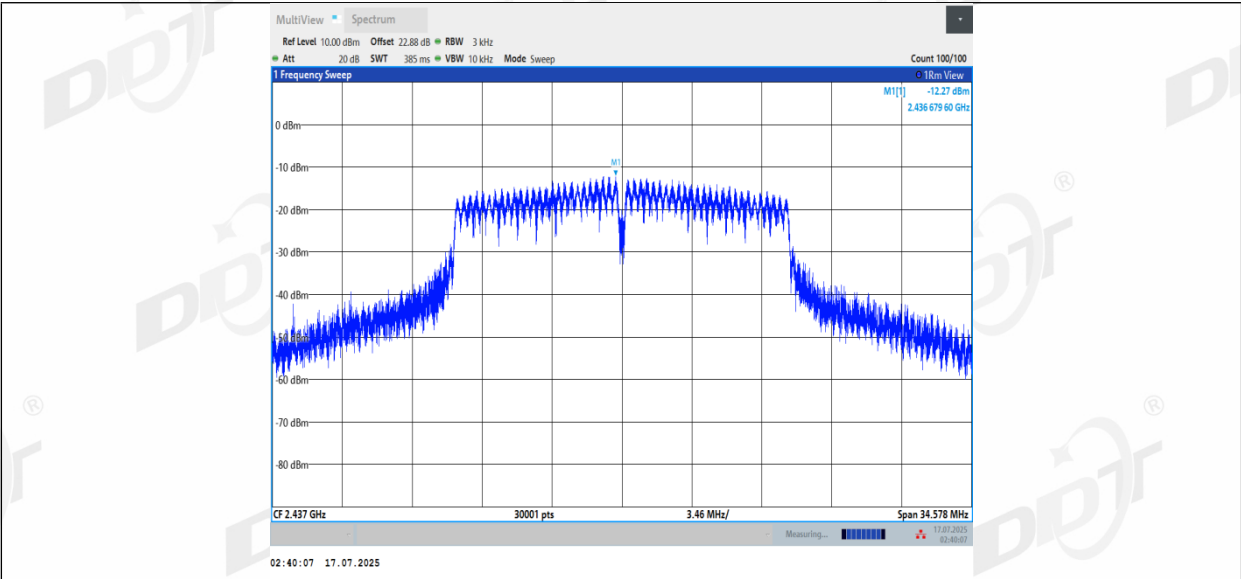
11G_Ant2_2412



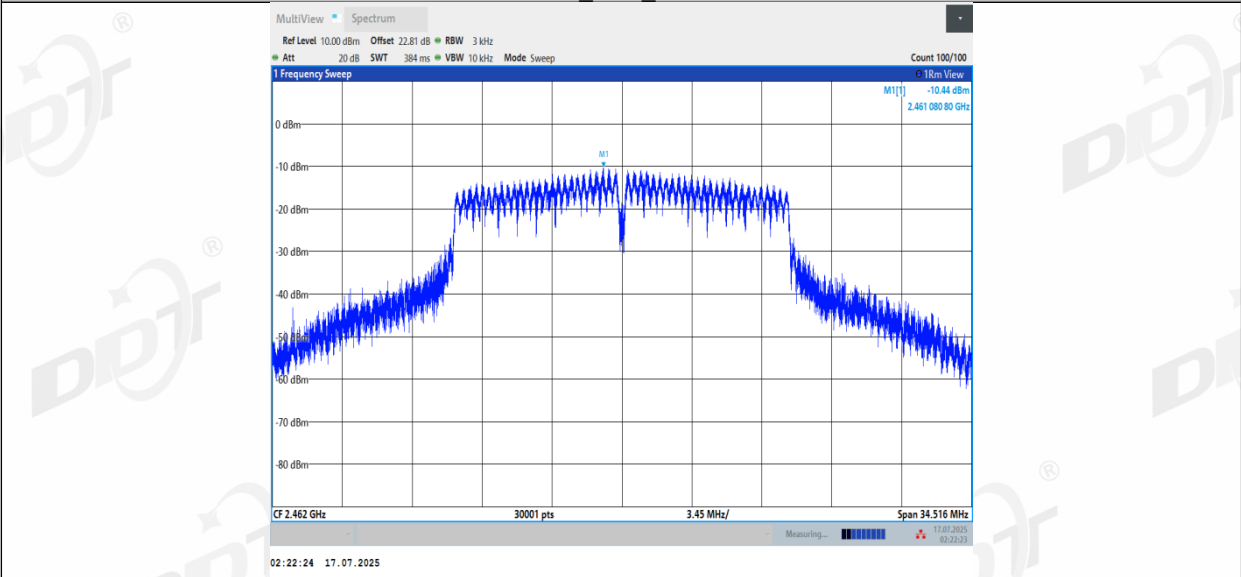
11G_Ant1_2437



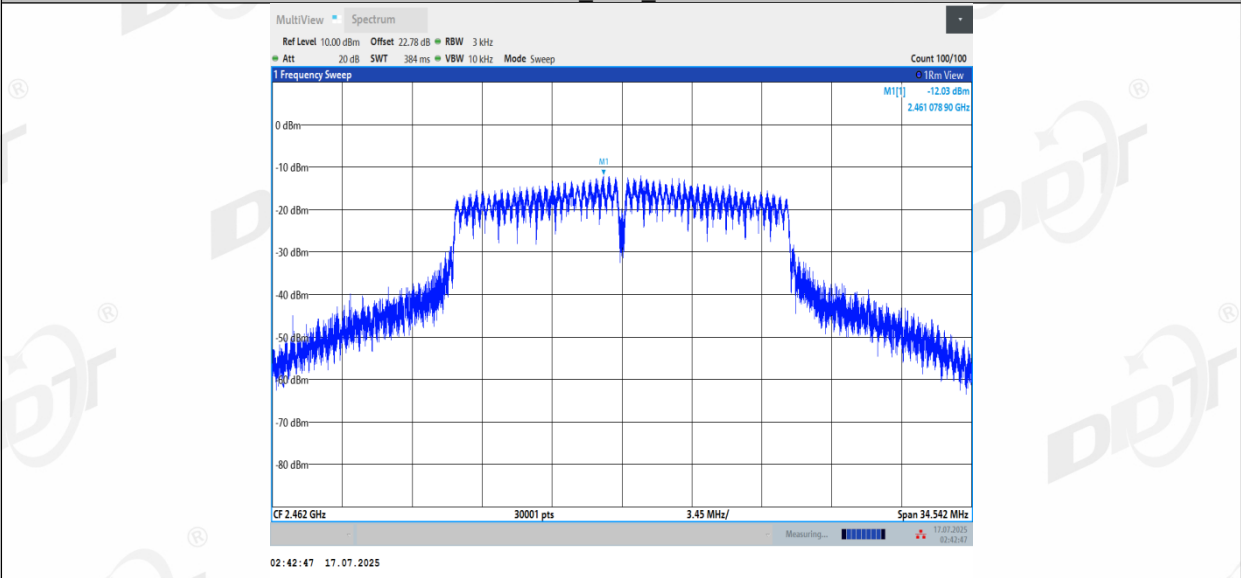
11G_Ant2_2437



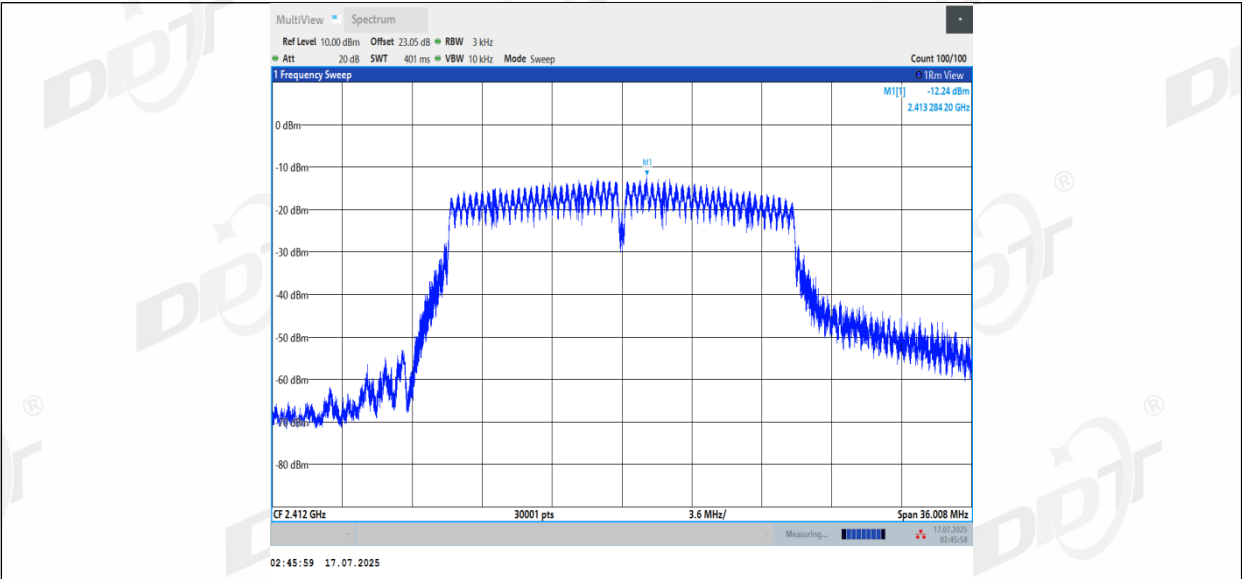
11G_Ant1_2462



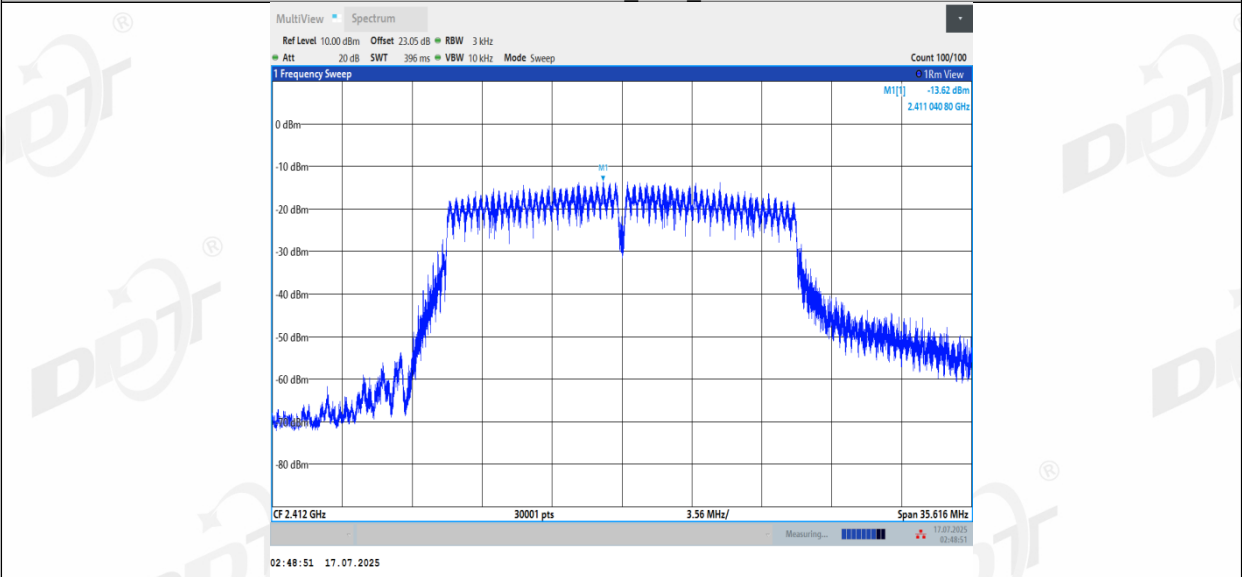
11G_Ant2_2462



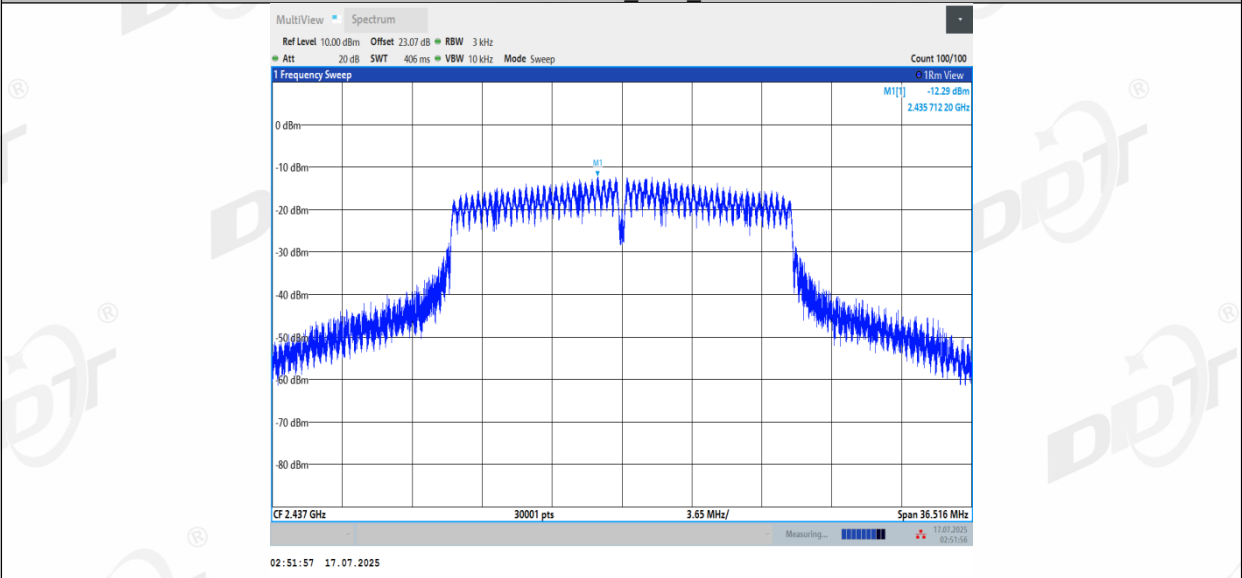
11N20MIMO_Ant1_2412



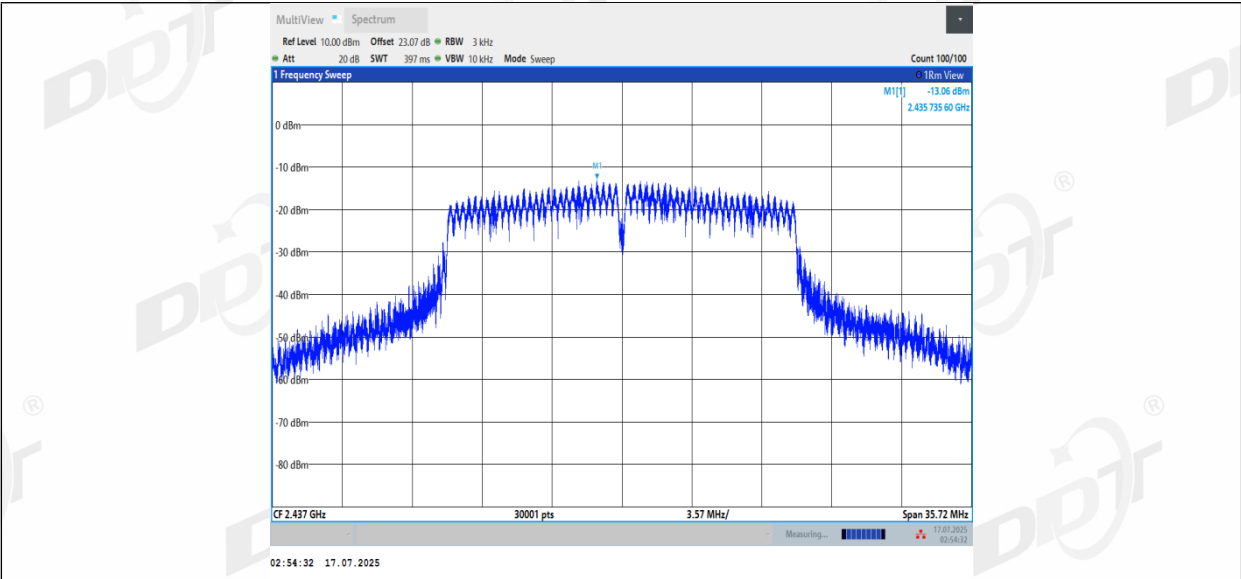
11N20MIMO_Ant2_2412



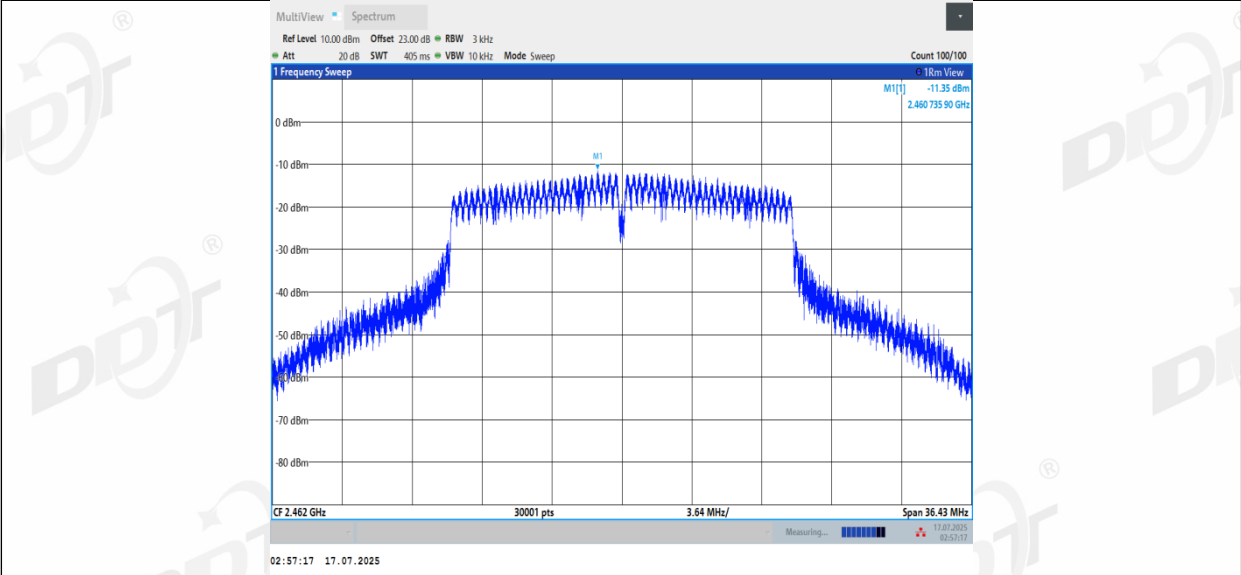
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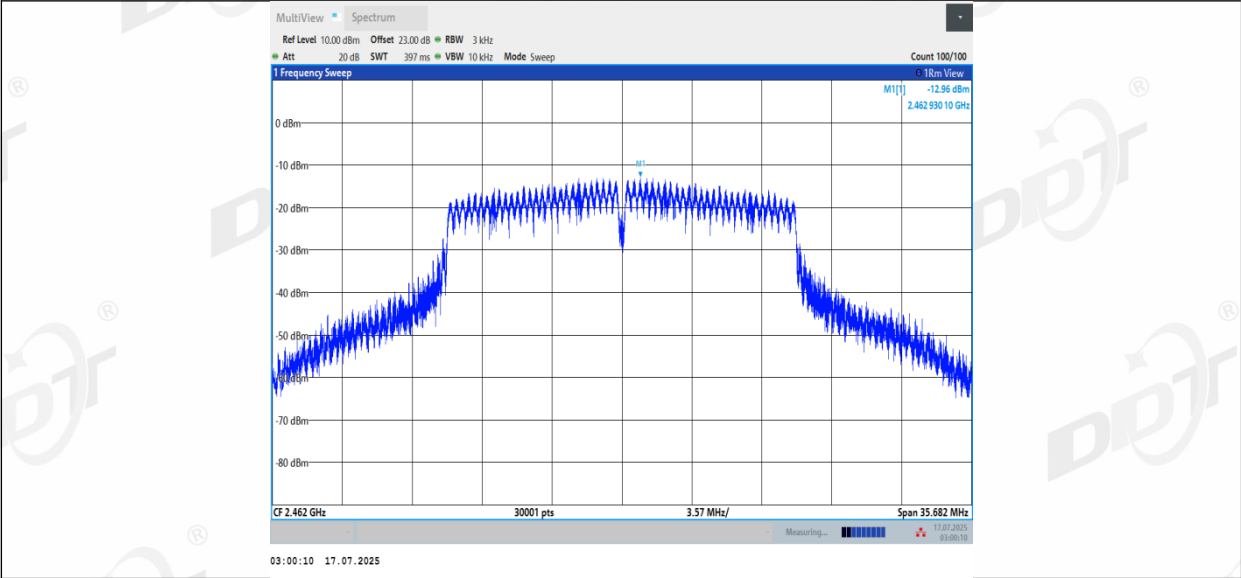
11N20MIMO_Ant2_2437



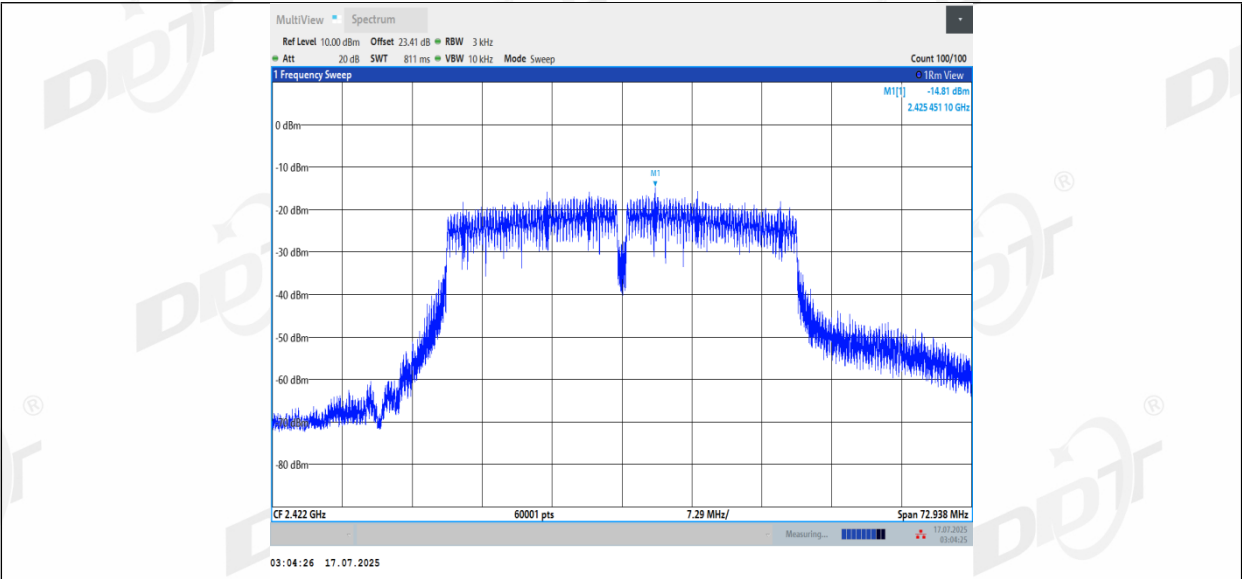
11N20MIMO_Ant1_2462



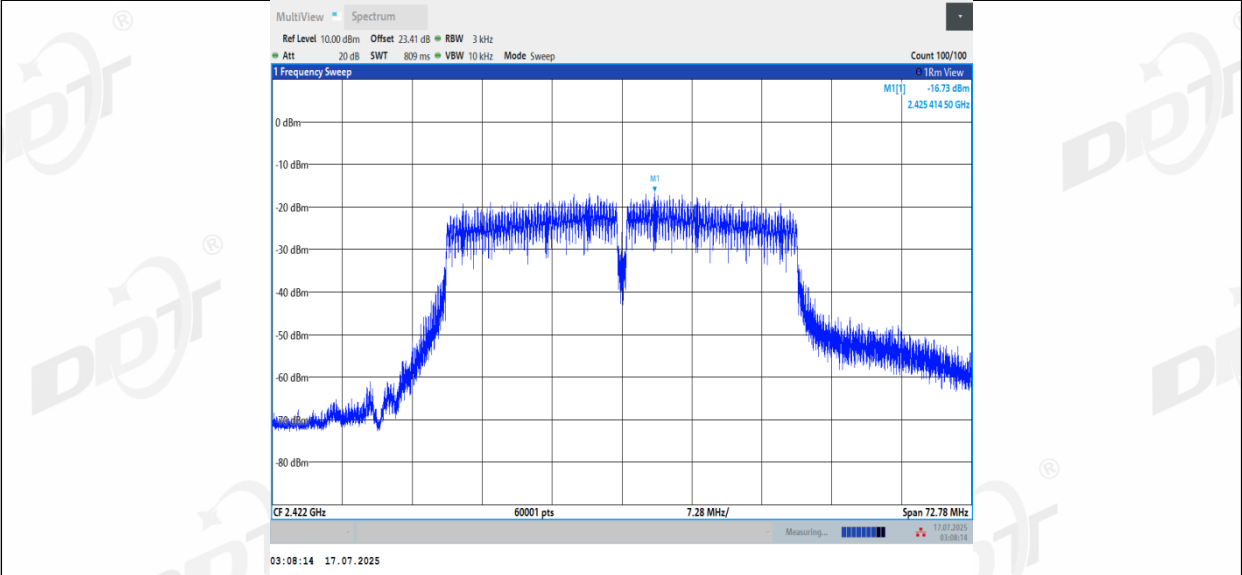
11N20MIMO_Ant2_2462



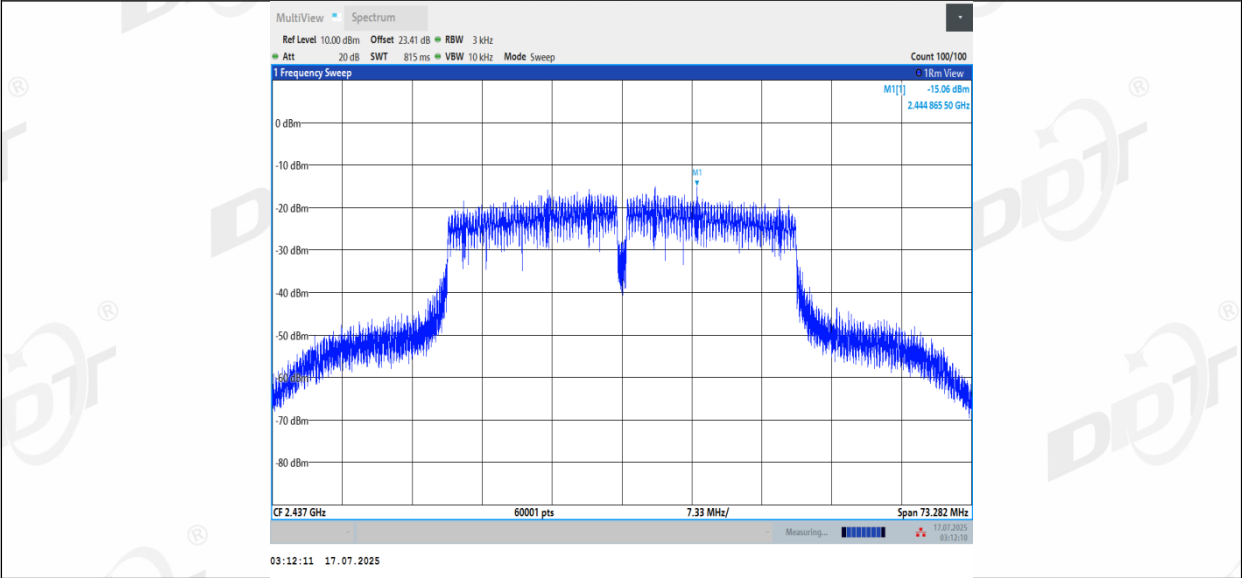
11N40MIMO_Ant1_2422



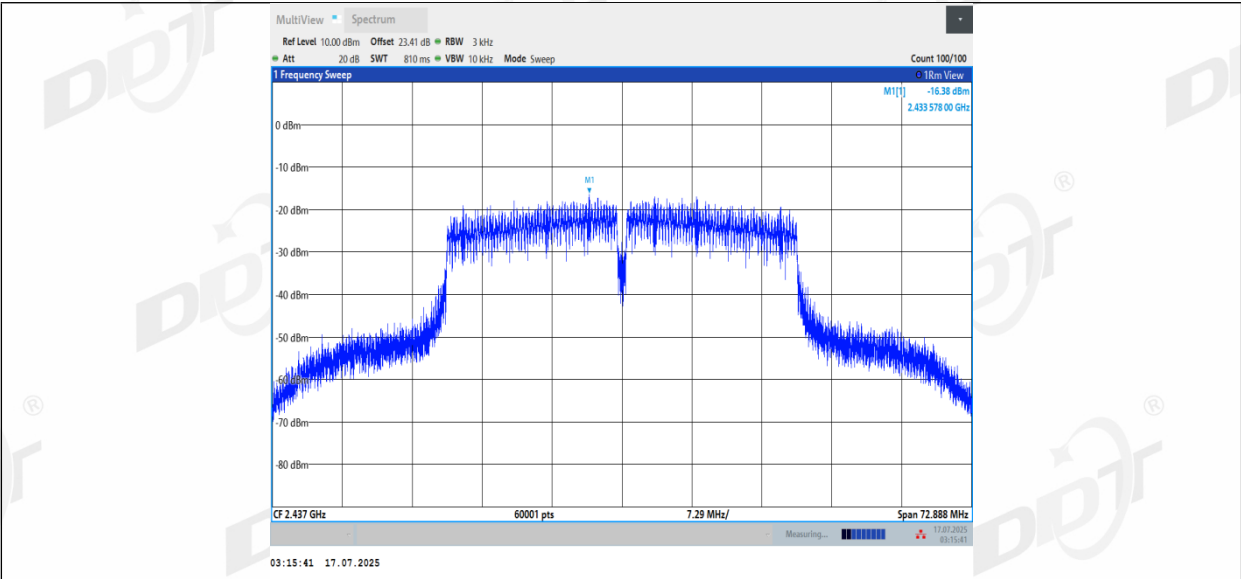
11N40MIMO_Ant2_2422



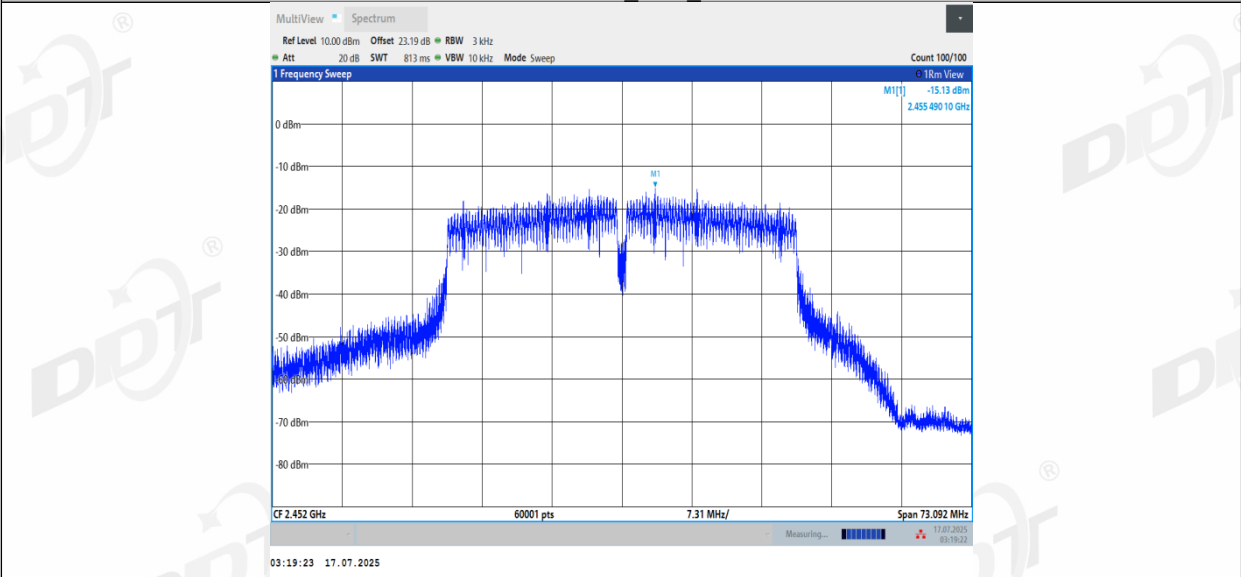
11N40MIMO_Ant1_2437



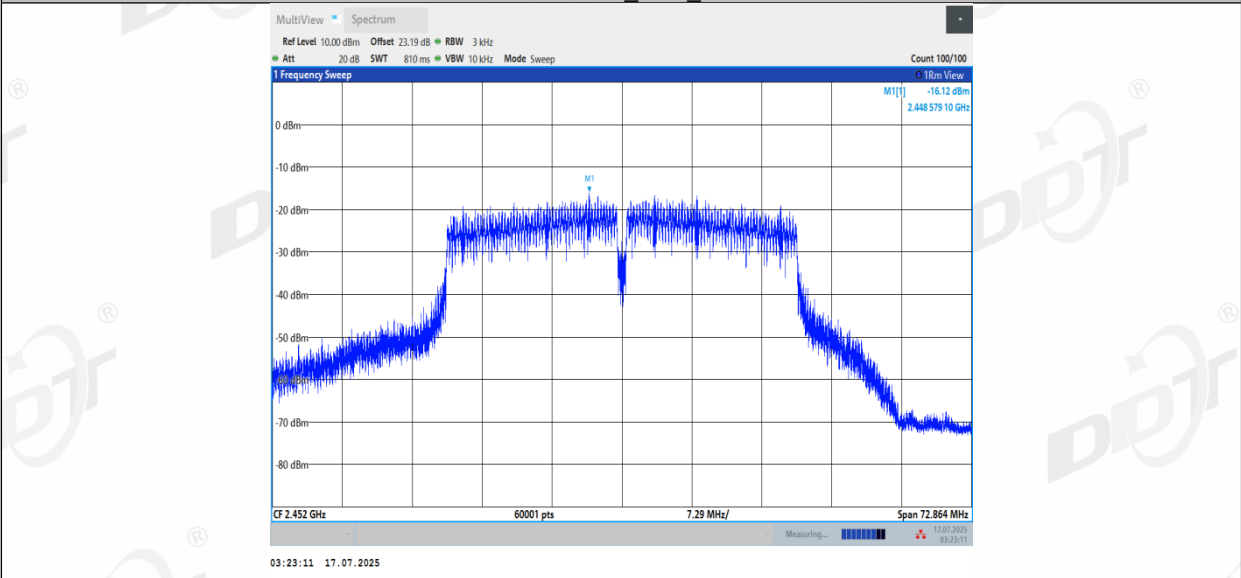
11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



11AX20MIMO_Ant1_2412