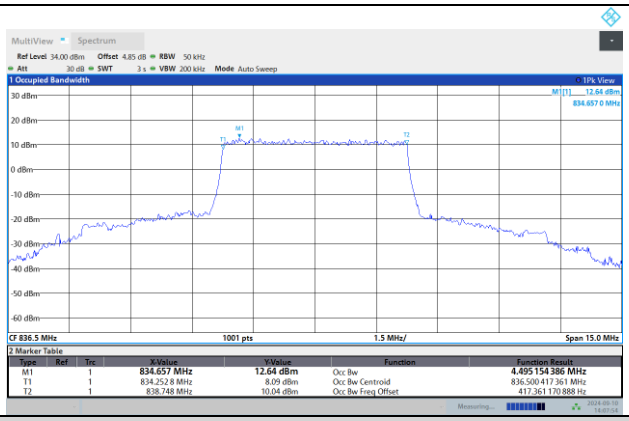

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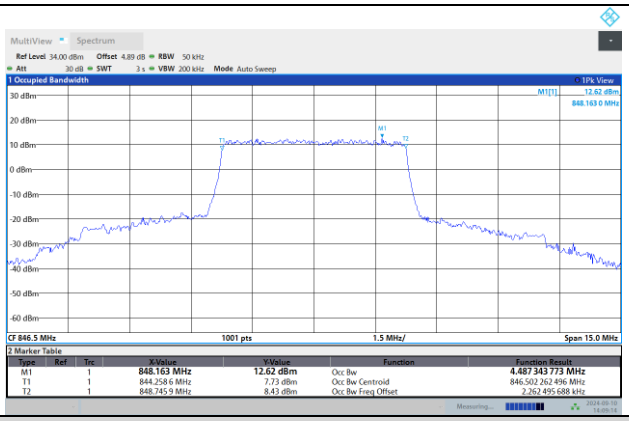

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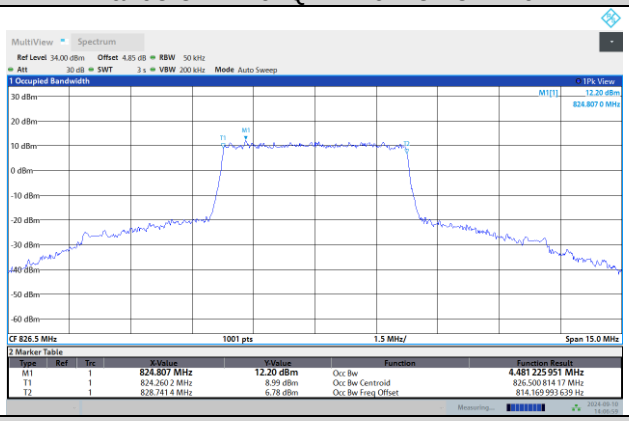

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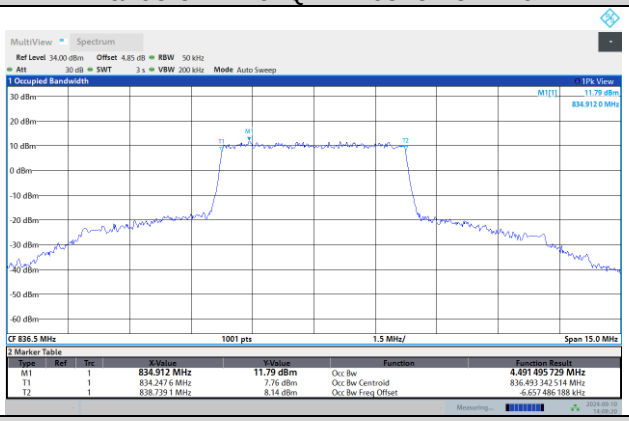

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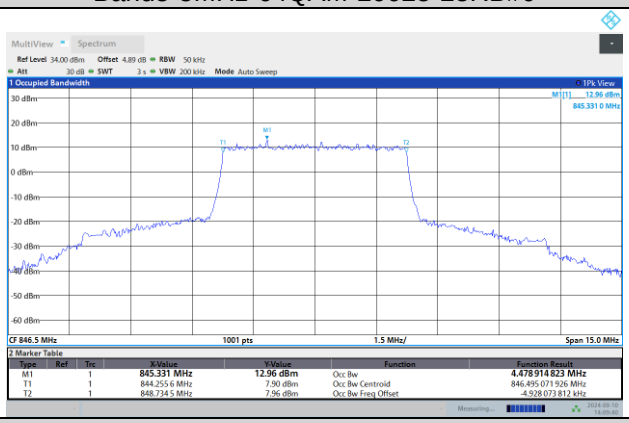

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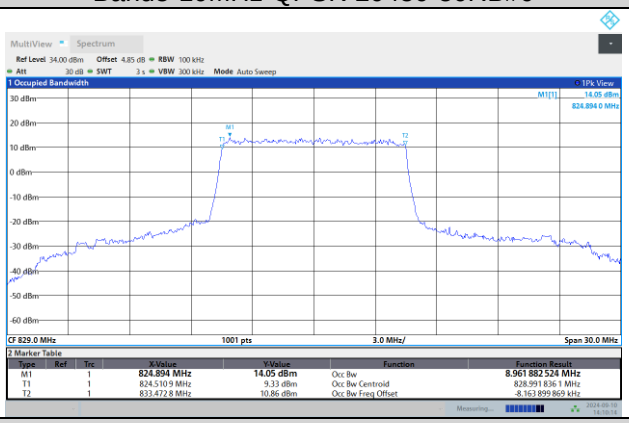

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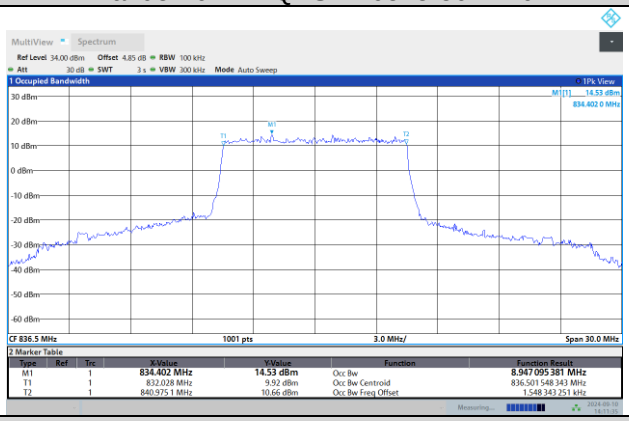

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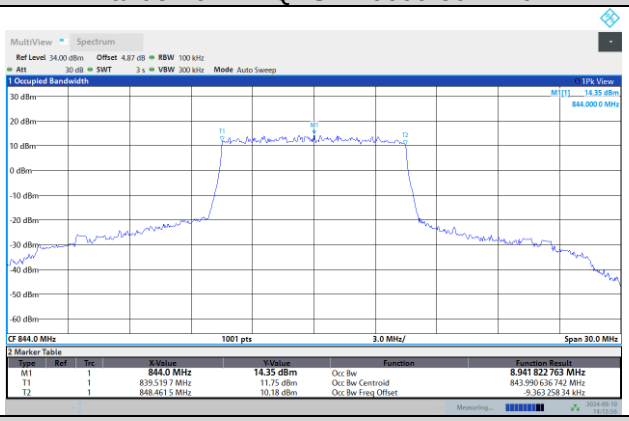

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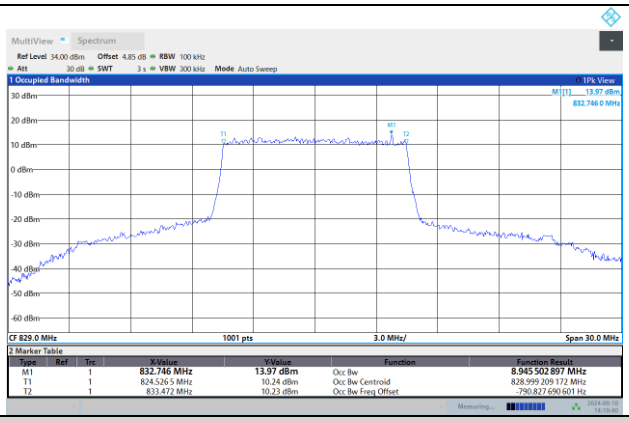

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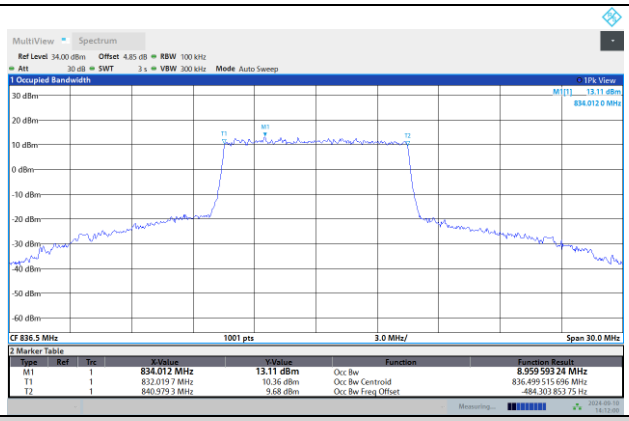

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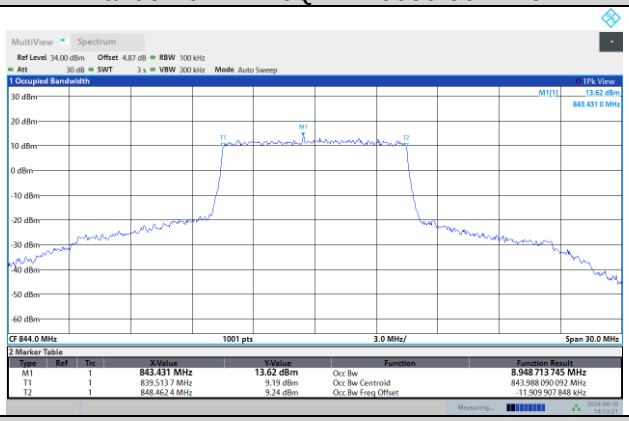

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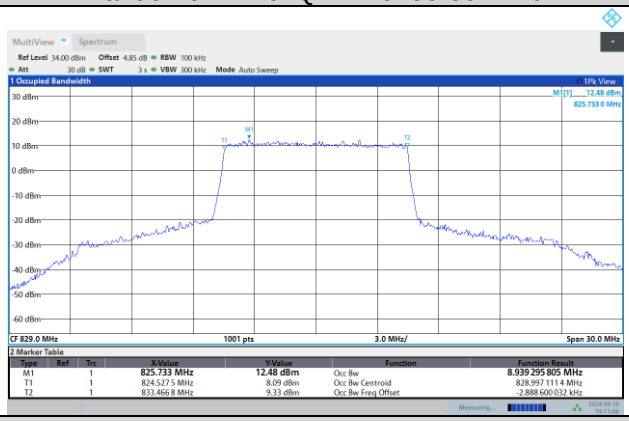

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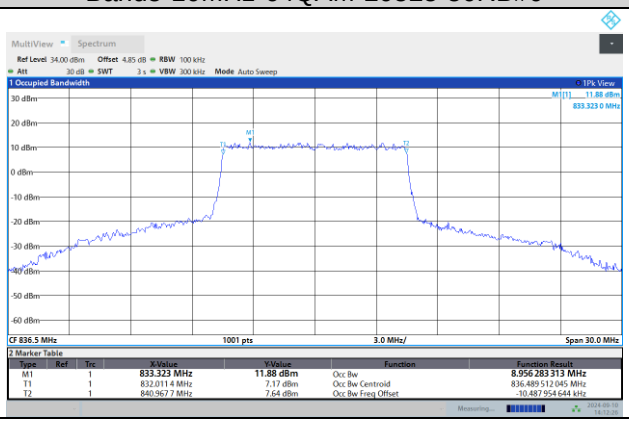
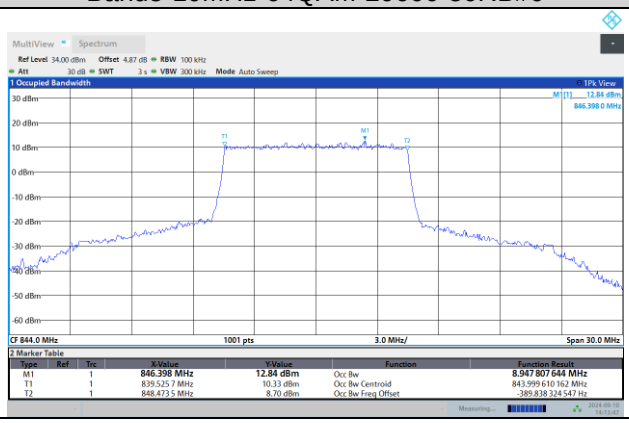
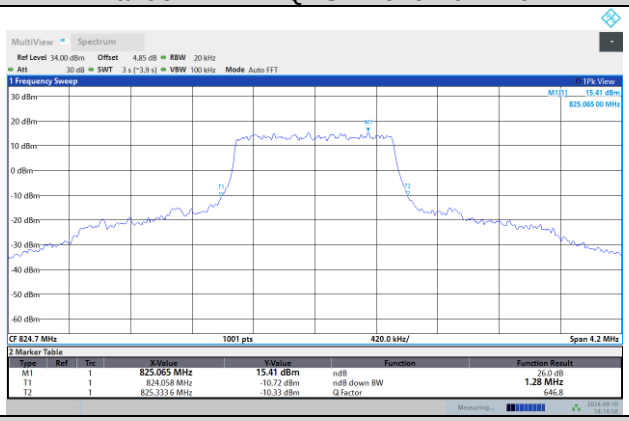




26dB Bandwidth

Band5-1.4MHz-QPSK-20407-6RB#0



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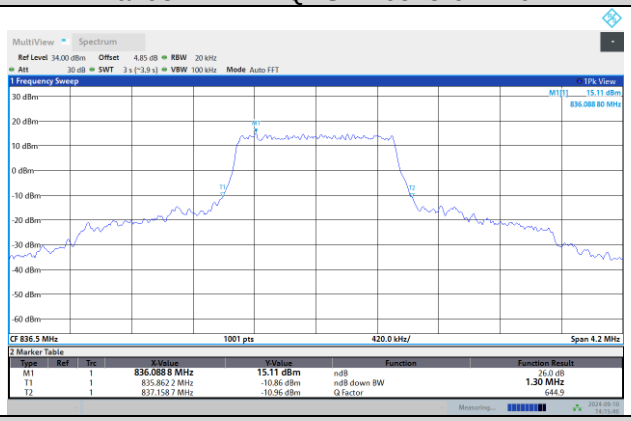

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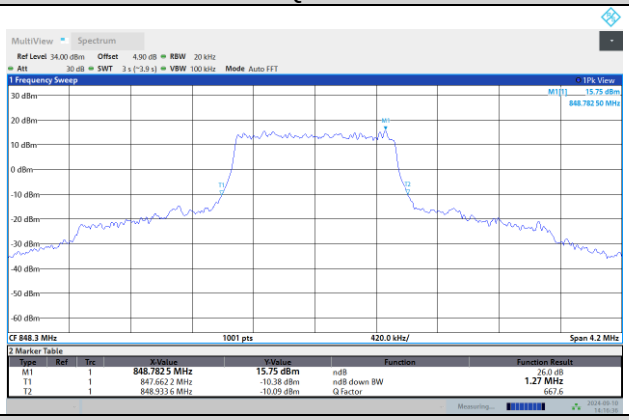

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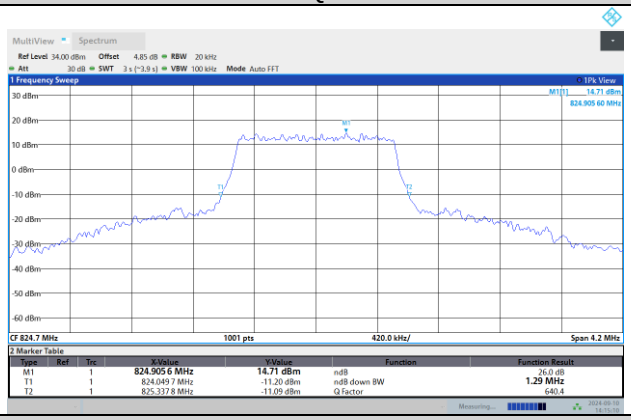

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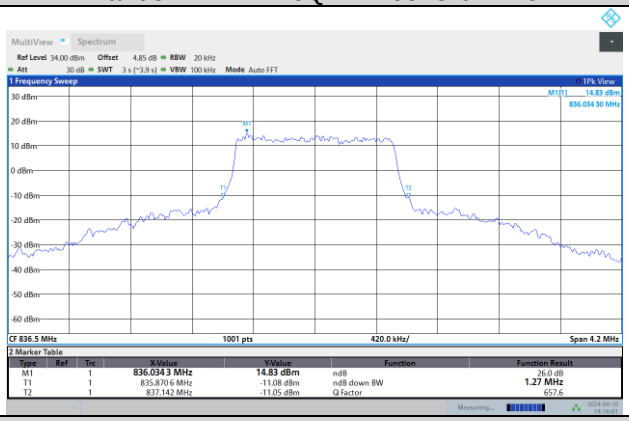

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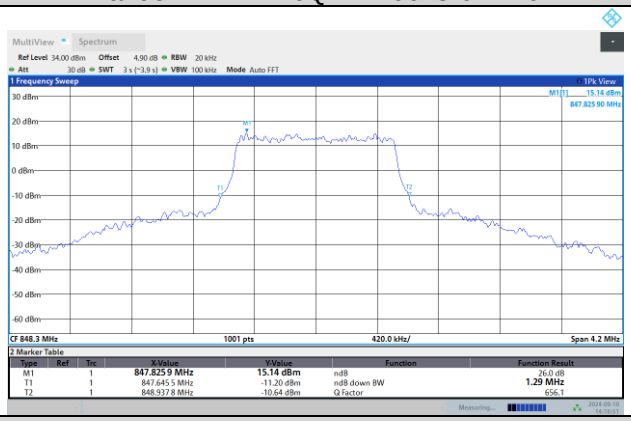
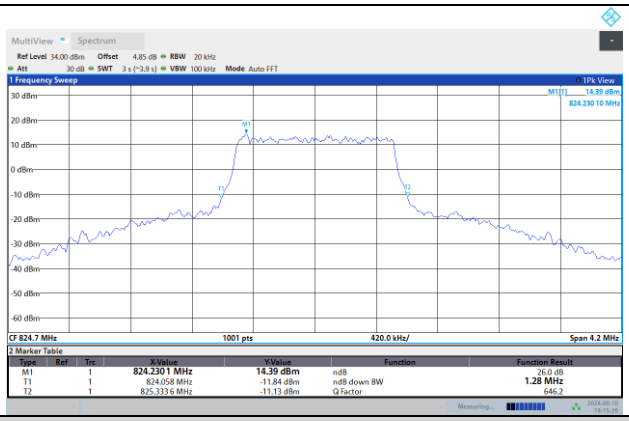


Band5-1.4MHz-64QAM-20407-6RB#0

Band5-1.4MHz-64QAM-20525-6RB#0



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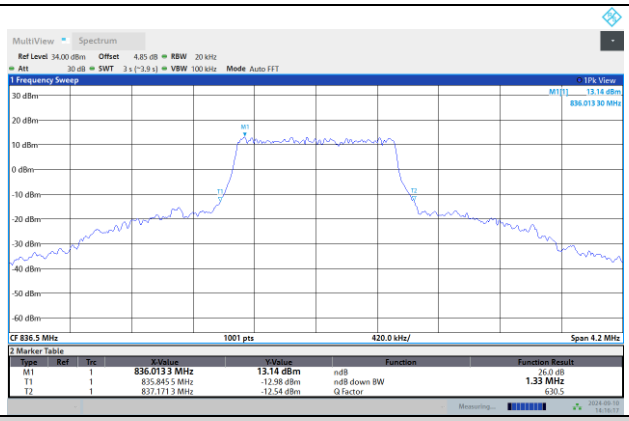
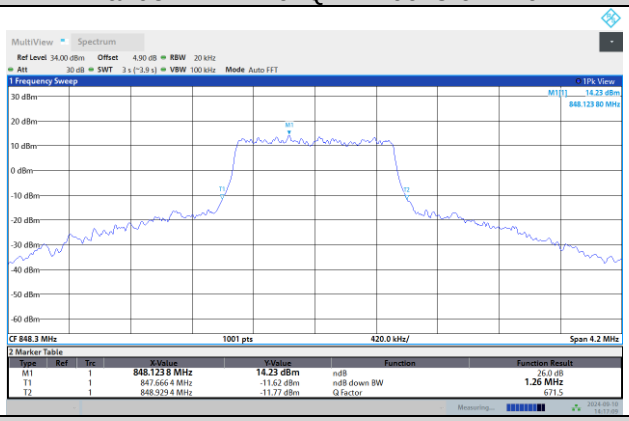


Band5-3MHz-QPSK-20415-15RB#



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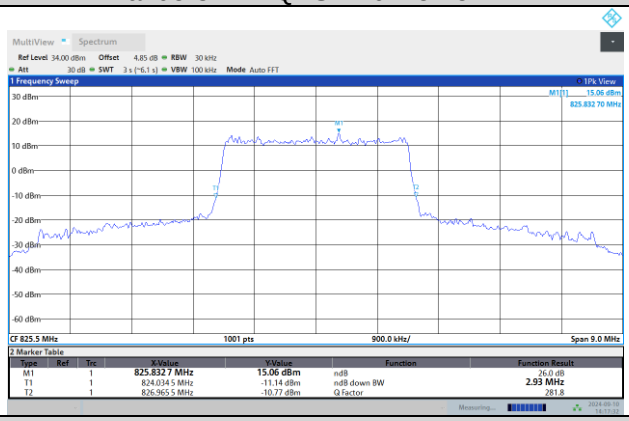

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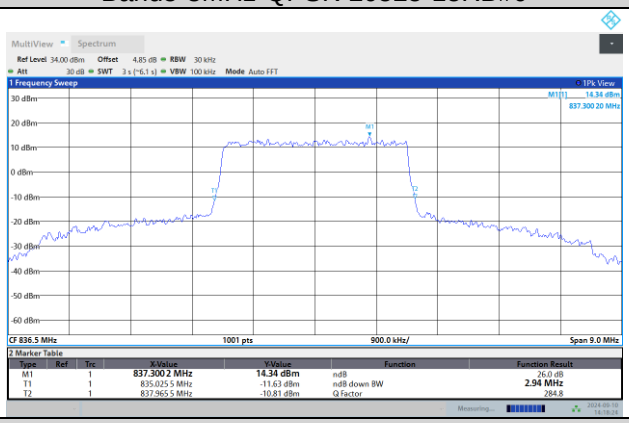

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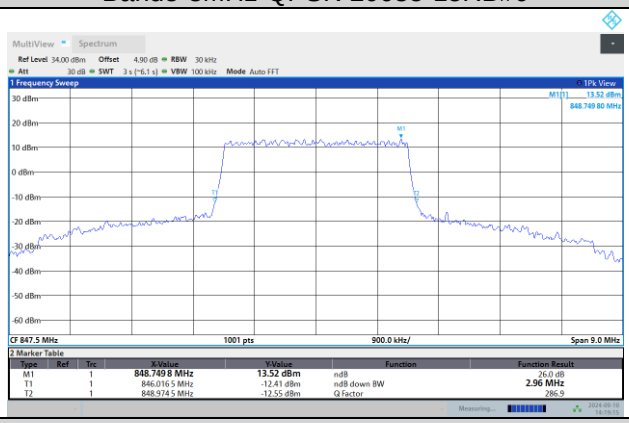

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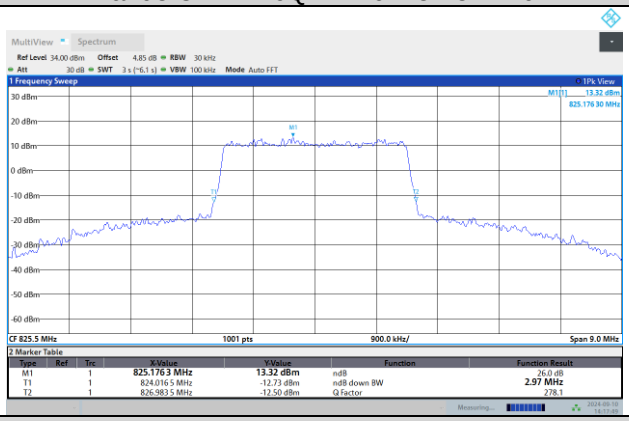

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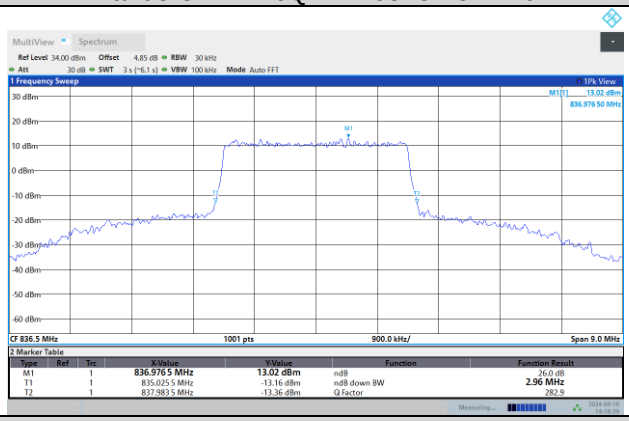

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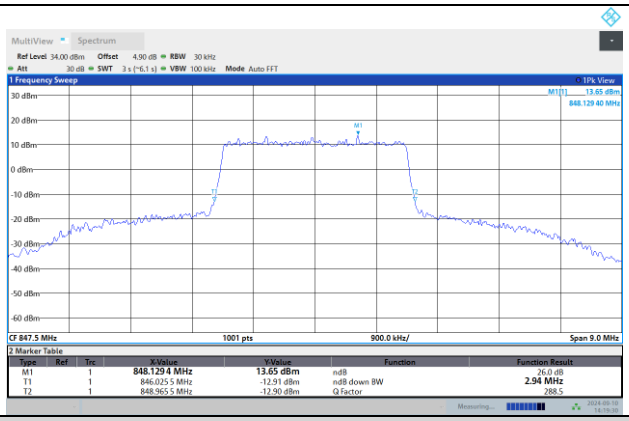

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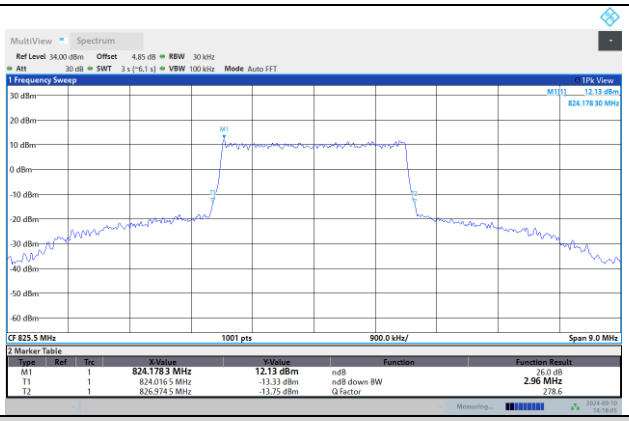

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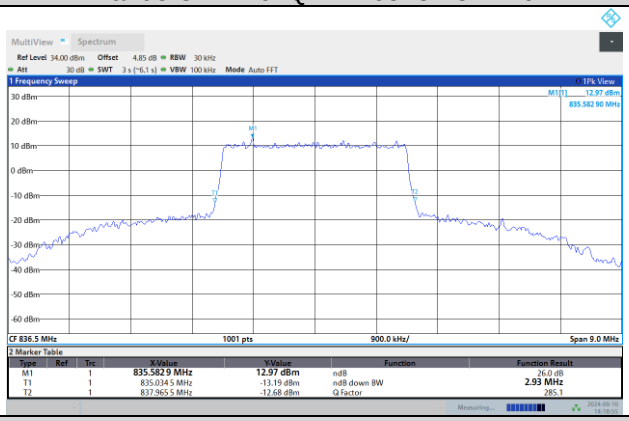

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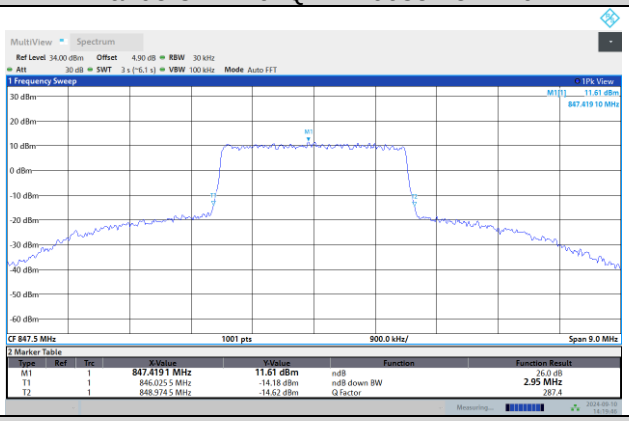

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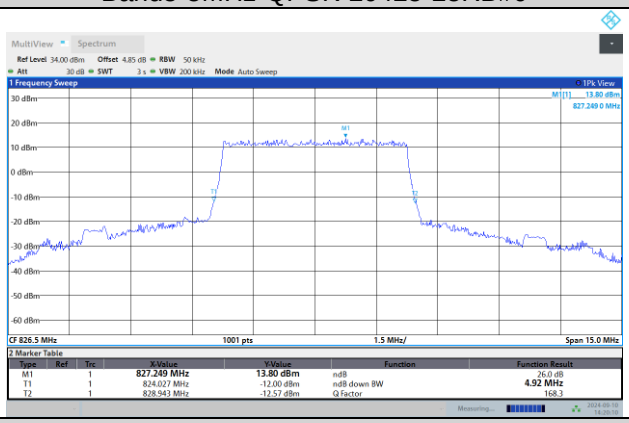

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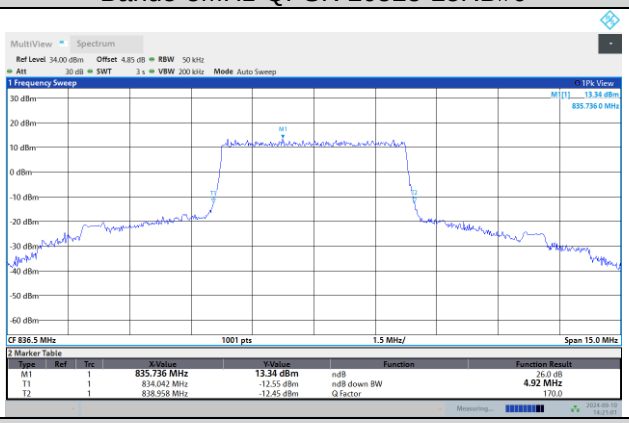

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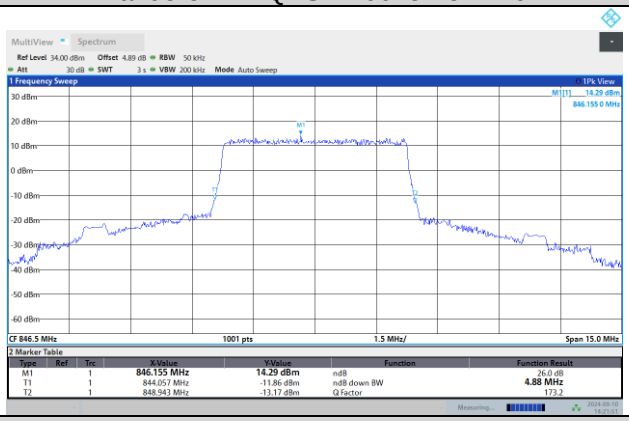

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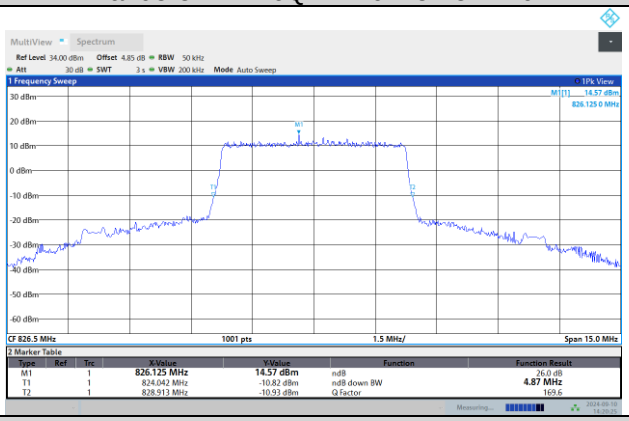

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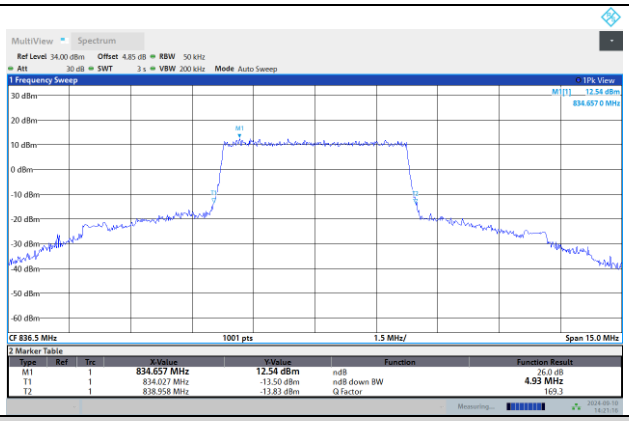

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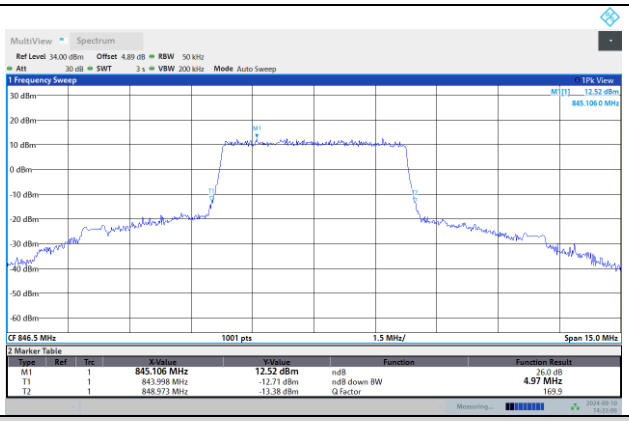

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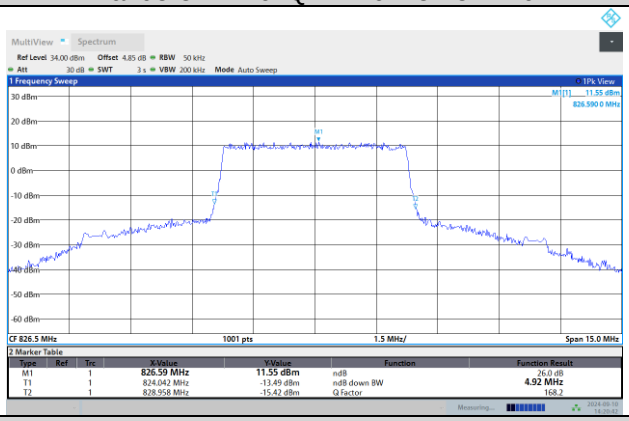

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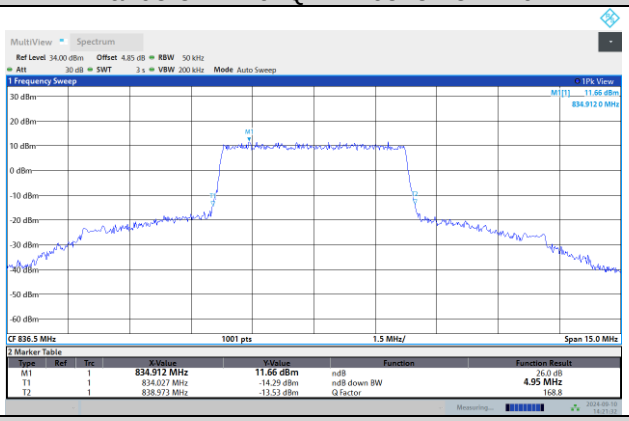

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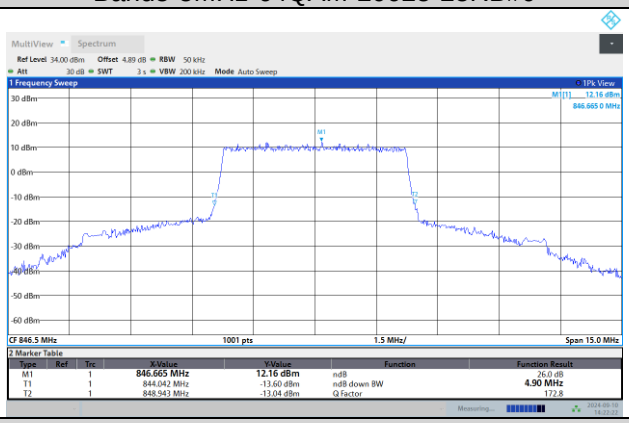

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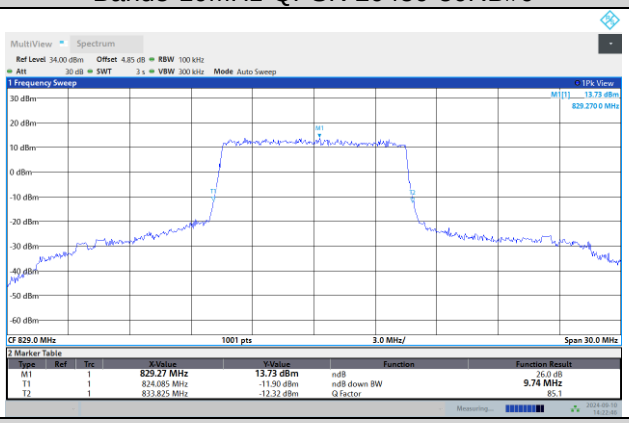

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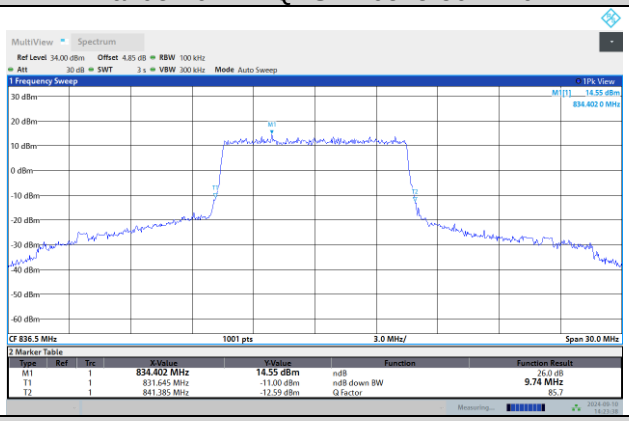

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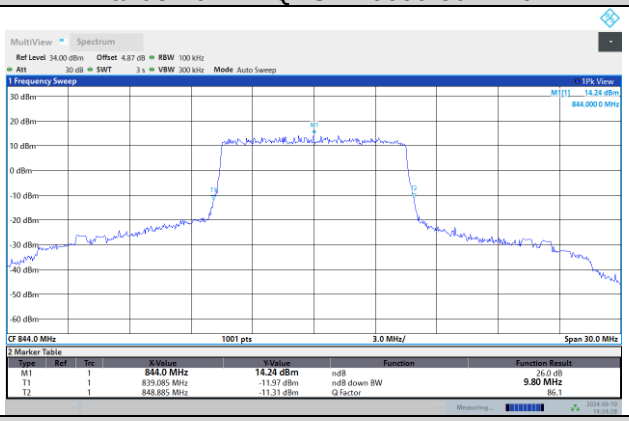

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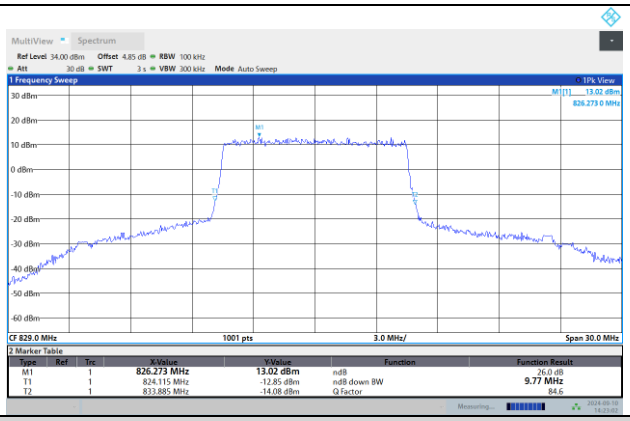

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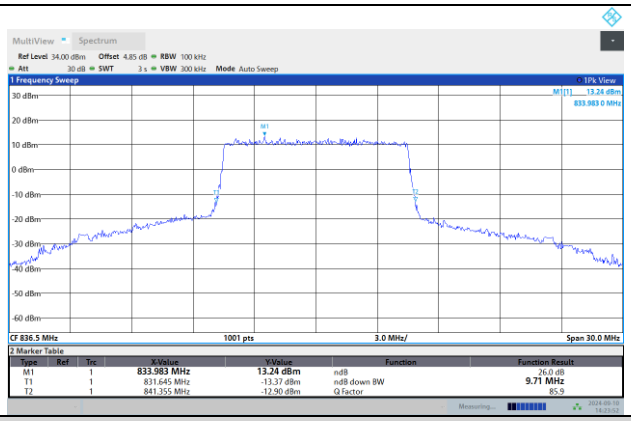

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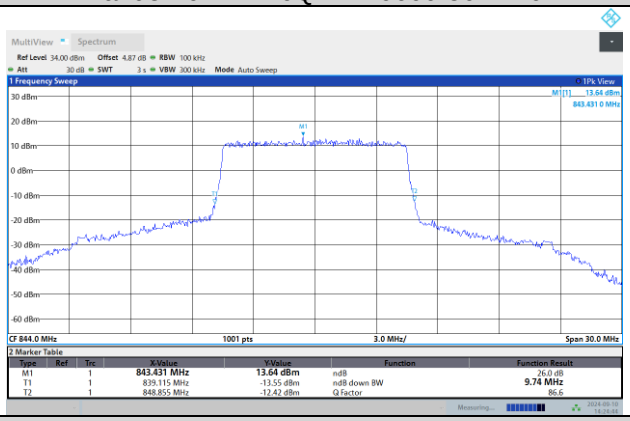
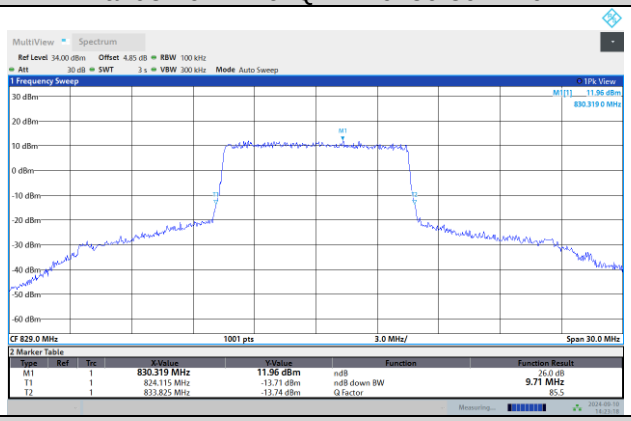


Band5-10MHz-64QAM-20525-50RB#0



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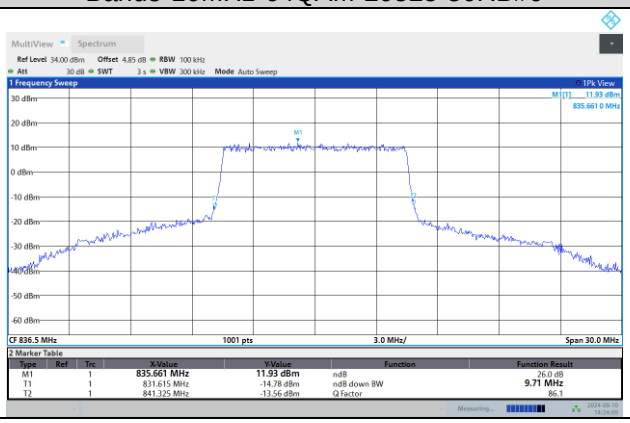
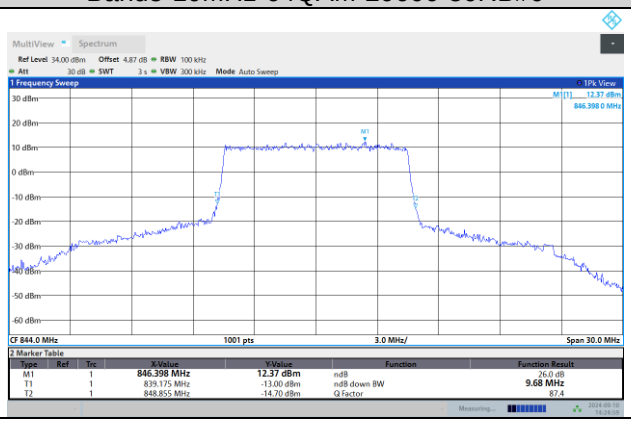




BAND EDGE

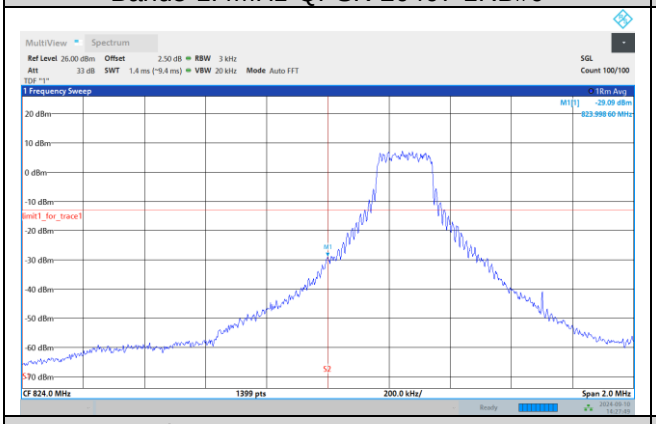
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	See Graph	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	See Graph	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	See Graph	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	See Graph	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	See Graph	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	See Graph	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	See Graph	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	See Graph	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	See Graph	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	See Graph	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	See Graph	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	See Graph	PASS
Band5	3MHz	QPSK	20415	1RB#0	See Graph	PASS
Band5	3MHz	QPSK	20415	15RB#0	See Graph	PASS
Band5	3MHz	QPSK	20635	1RB#14	See Graph	PASS
Band5	3MHz	QPSK	20635	15RB#0	See Graph	PASS
Band5	3MHz	16QAM	20415	1RB#0	See Graph	PASS
Band5	3MHz	16QAM	20415	15RB#0	See Graph	PASS
Band5	3MHz	16QAM	20635	1RB#14	See Graph	PASS
Band5	3MHz	16QAM	20635	15RB#0	See Graph	PASS
Band5	3MHz	64QAM	20415	1RB#0	See Graph	PASS
Band5	3MHz	64QAM	20415	15RB#0	See Graph	PASS
Band5	3MHz	64QAM	20635	1RB#14	See Graph	PASS
Band5	3MHz	64QAM	20635	15RB#0	See Graph	PASS
Band5	5MHz	QPSK	20425	1RB#0	See Graph	PASS
Band5	5MHz	QPSK	20425	25RB#0	See Graph	PASS
Band5	5MHz	QPSK	20625	1RB#24	See Graph	PASS
Band5	5MHz	QPSK	20625	25RB#0	See Graph	PASS
Band5	5MHz	16QAM	20425	1RB#0	See Graph	PASS
Band5	5MHz	16QAM	20425	25RB#0	See Graph	PASS
Band5	5MHz	16QAM	20625	1RB#24	See Graph	PASS
Band5	5MHz	16QAM	20625	25RB#0	See Graph	PASS
Band5	5MHz	64QAM	20425	1RB#0	See Graph	PASS
Band5	5MHz	64QAM	20425	25RB#0	See Graph	PASS
Band5	5MHz	64QAM	20625	1RB#24	See Graph	PASS
Band5	5MHz	64QAM	20625	25RB#0	See Graph	PASS
Band5	10MHz	QPSK	20450	1RB#0	See Graph	PASS
Band5	10MHz	QPSK	20450	50RB#0	See Graph	PASS
Band5	10MHz	QPSK	20600	1RB#49	See Graph	PASS
Band5	10MHz	QPSK	20600	50RB#0	See Graph	PASS
Band5	10MHz	16QAM	20450	1RB#0	See Graph	PASS
Band5	10MHz	16QAM	20450	50RB#0	See Graph	PASS
Band5	10MHz	16QAM	20600	1RB#49	See Graph	PASS
Band5	10MHz	16QAM	20600	50RB#0	See Graph	PASS
Band5	10MHz	64QAM	20450	1RB#0	See Graph	PASS

Band5	10MHz	64QAM	20450	50RB#0	See Graph	PASS
Band5	10MHz	64QAM	20600	1RB#49	See Graph	PASS
Band5	10MHz	64QAM	20600	50RB#0	See Graph	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0



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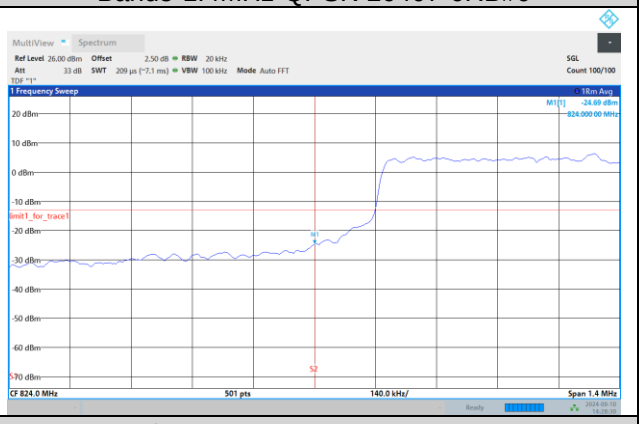

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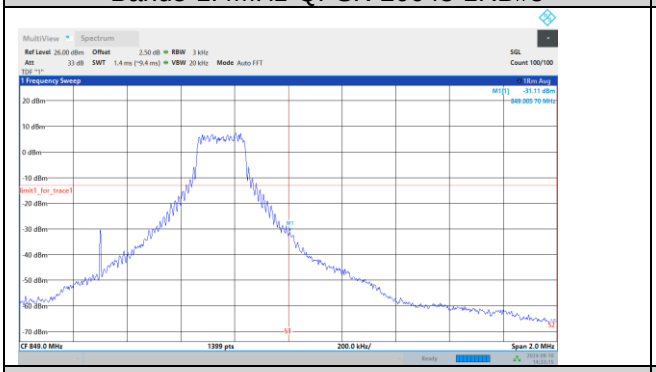

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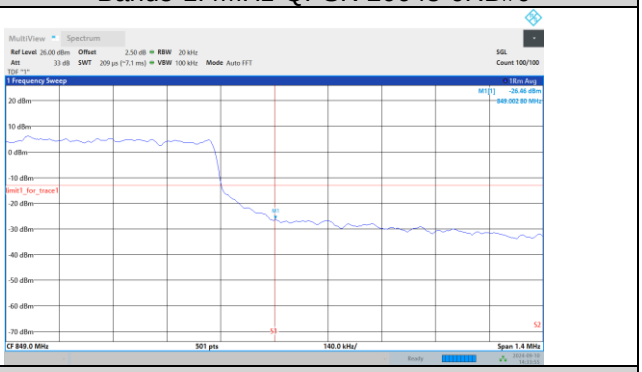

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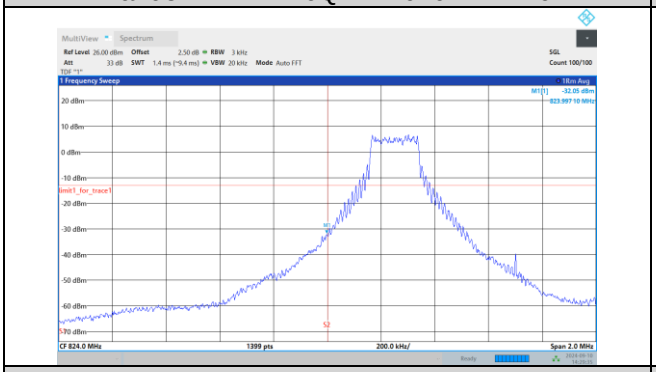

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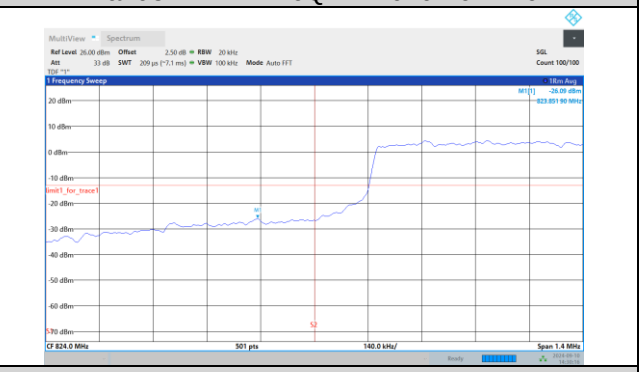

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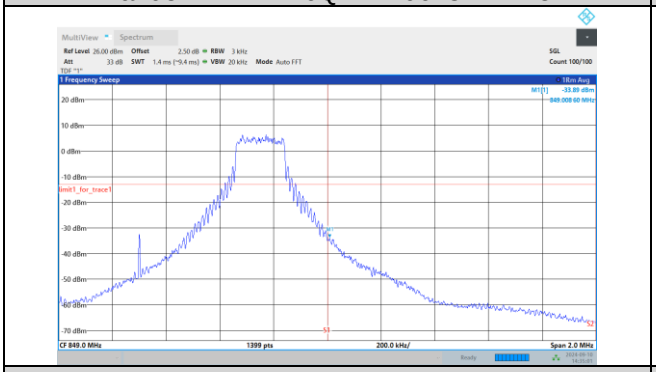

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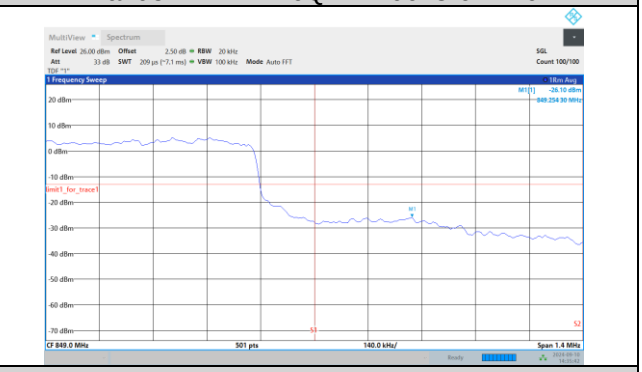
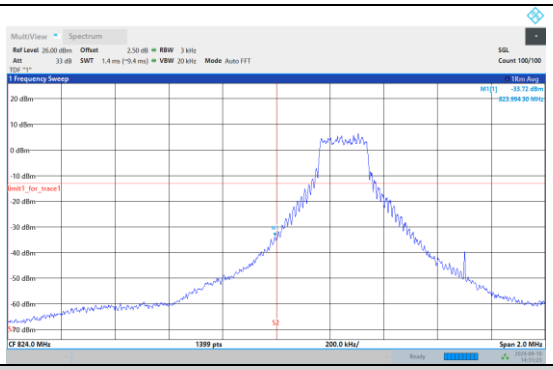


Band5-1.4MHz-64QAM-20407-1RB#0

Band5-1.4MHz-64QAM-20407-6RB#0



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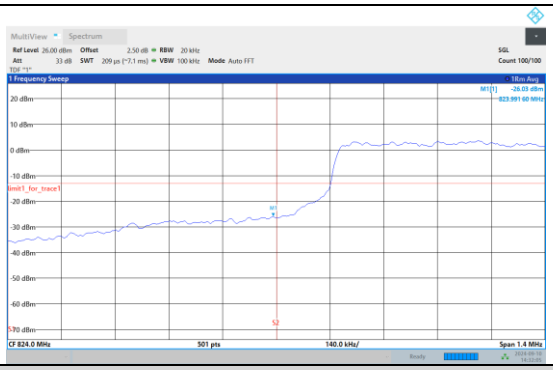
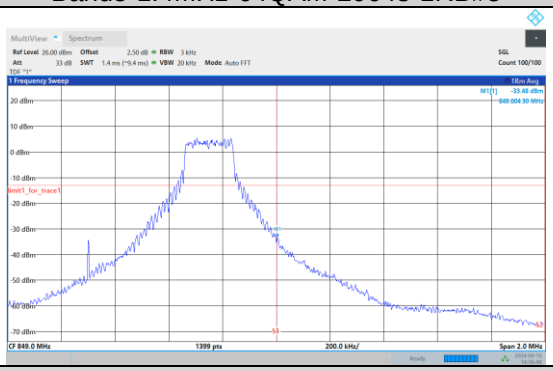
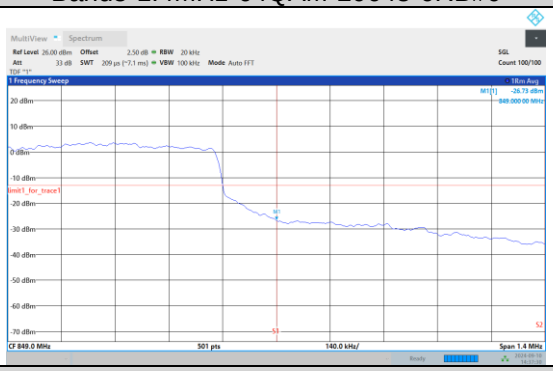


Band5-1.4MHz-64QAM-20643-6RB#0



Band5-3MHz-QPSK-20415-1RB#0



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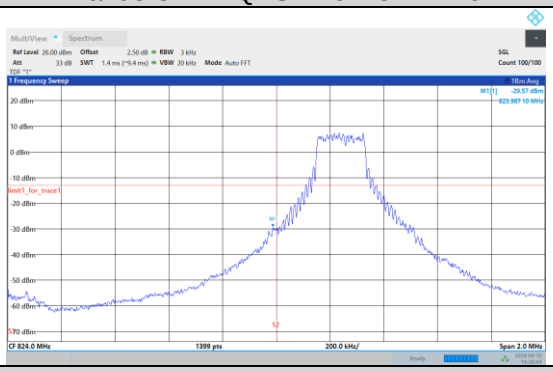

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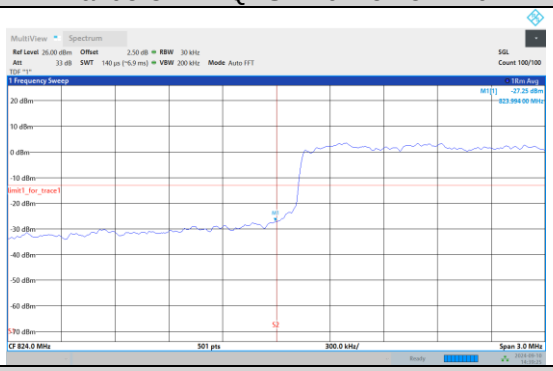
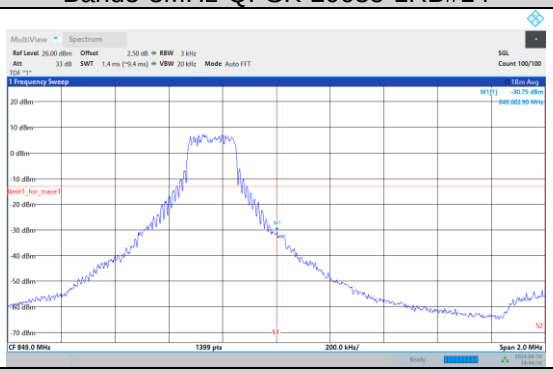


Band5-3MHz-QPSK-20635-15RB#0



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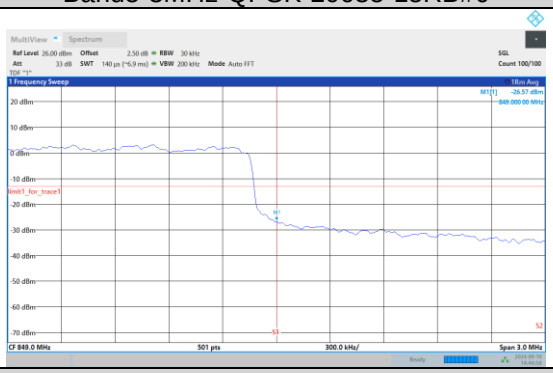

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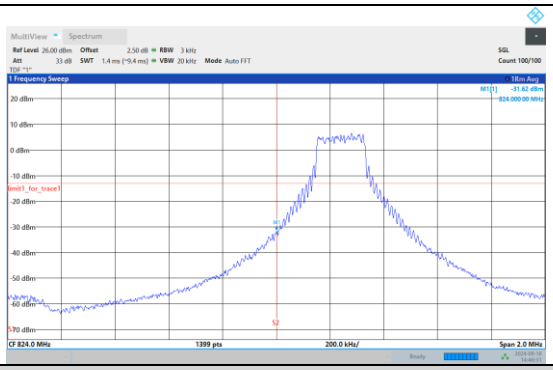

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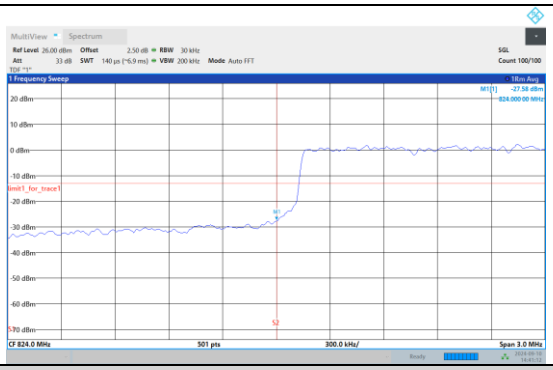

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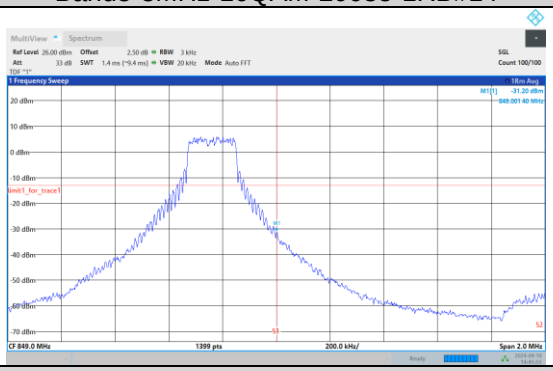

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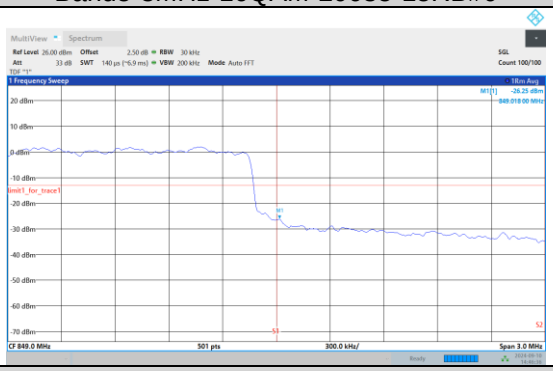

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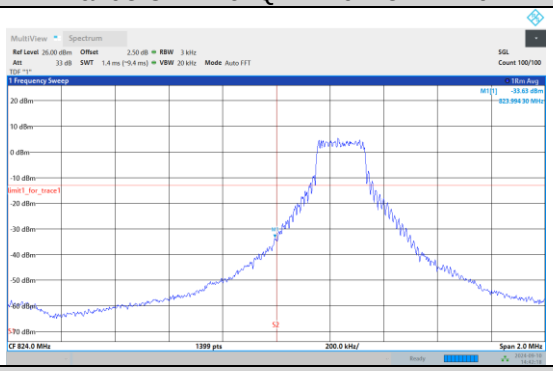

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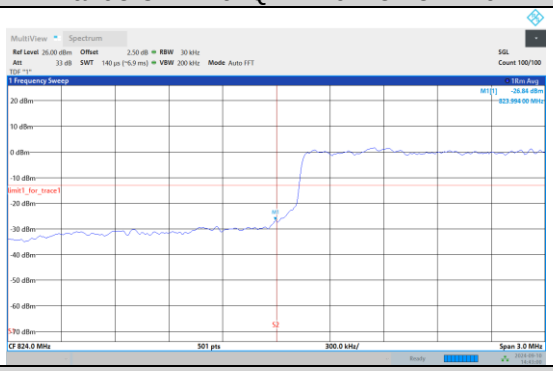

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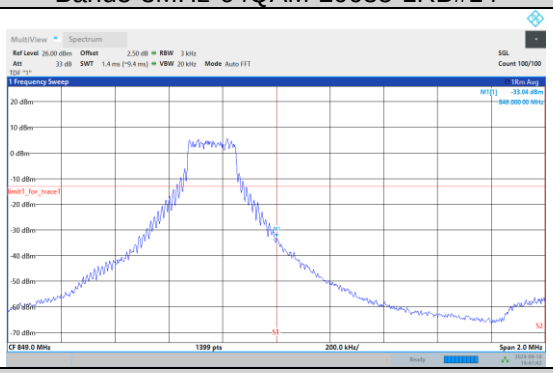
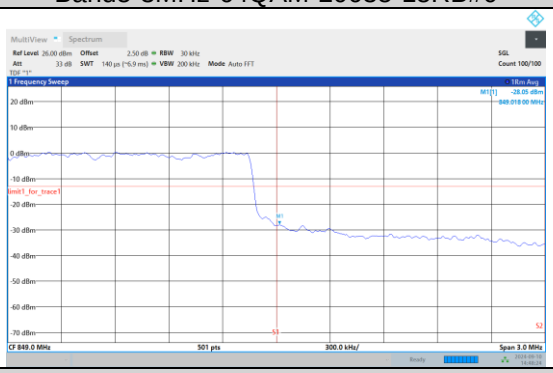
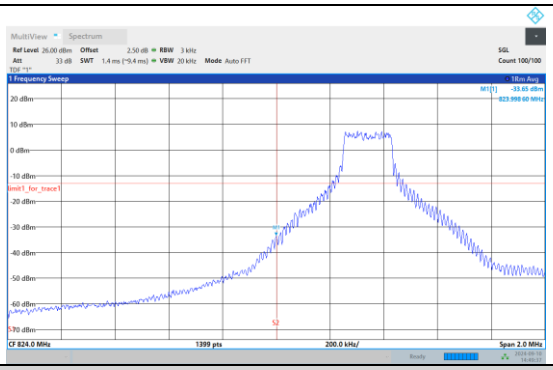


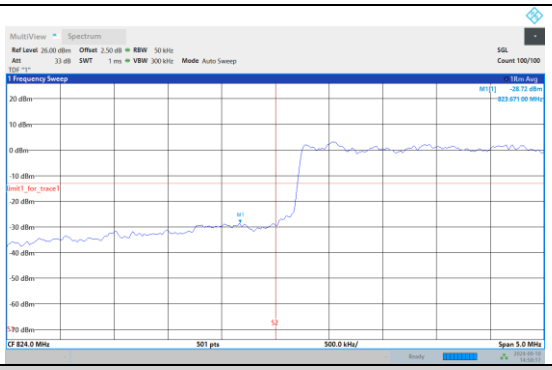
Band5-5MHz-QPSK-20425-1RB#0



Band5-5MHz-QPSK-20425-25RB#0



Band5-5MHz-QPSK-20625-1RB#24



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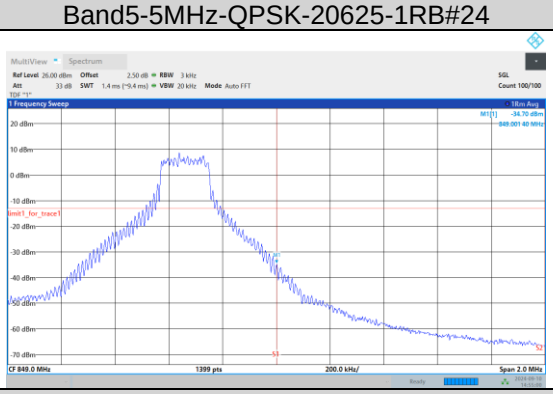

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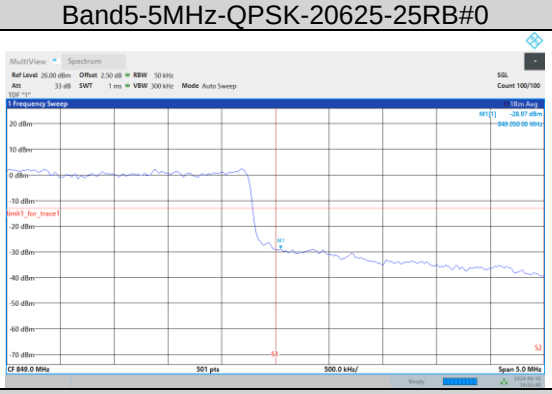

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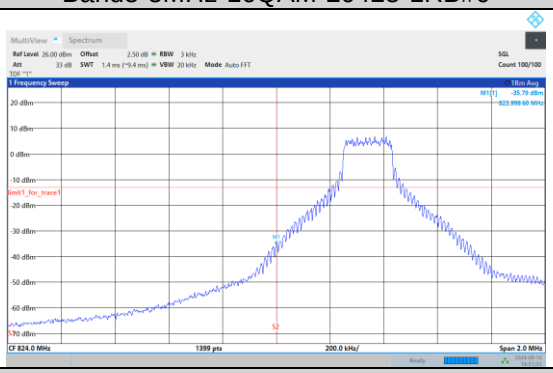

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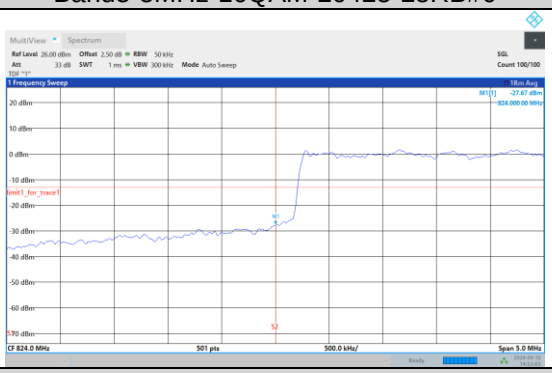

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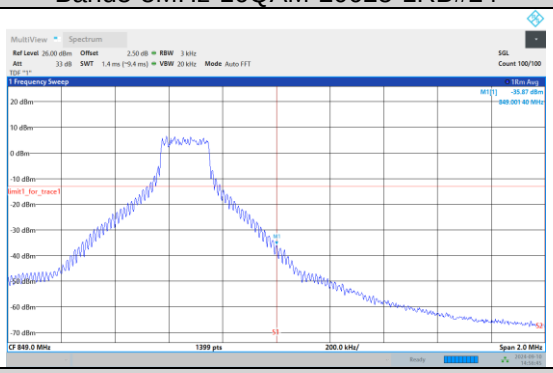
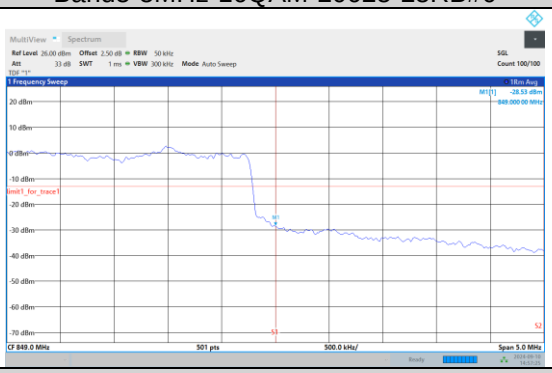
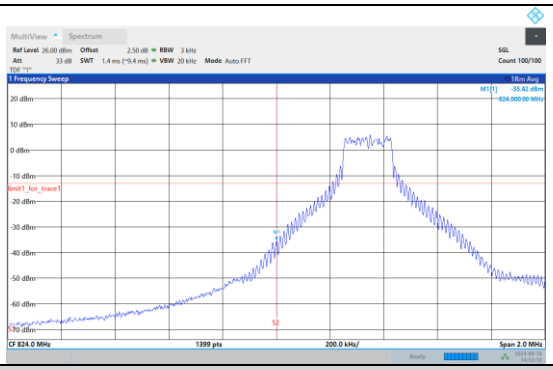


Band5-5MHz-64QAM-20425-1RB#0



Band5-5MHz-64QAM-20425-25RB#0



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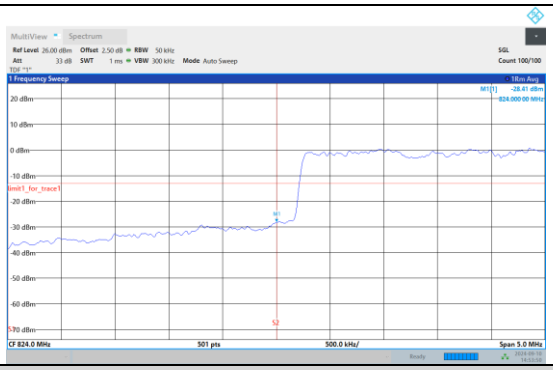

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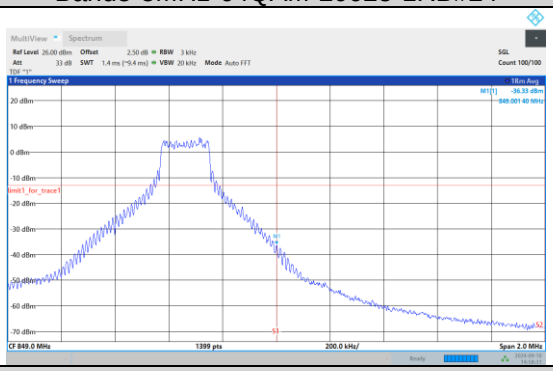
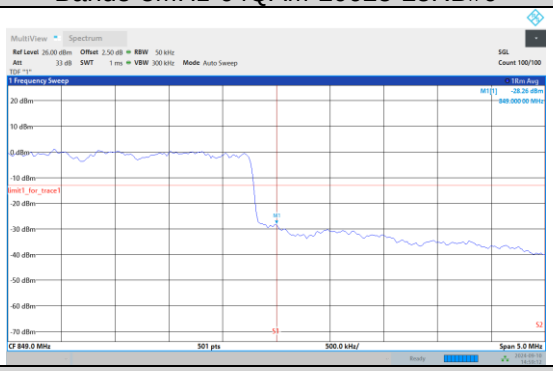


Band5-10MHz-QPSK-20450-1RB#0



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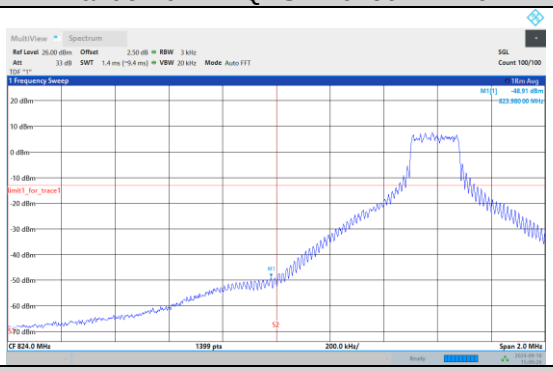
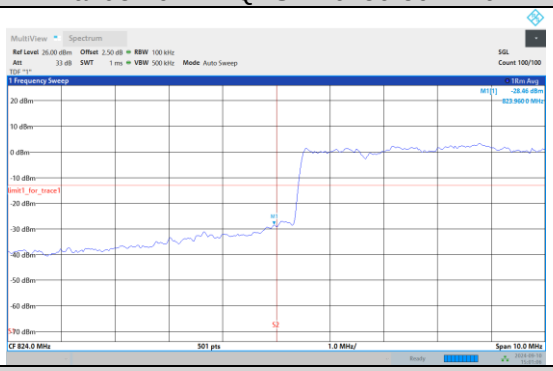
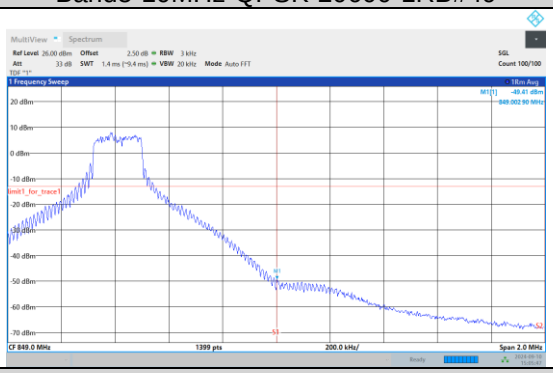


Band5-10MHz-QPSK-20600-1RB#49

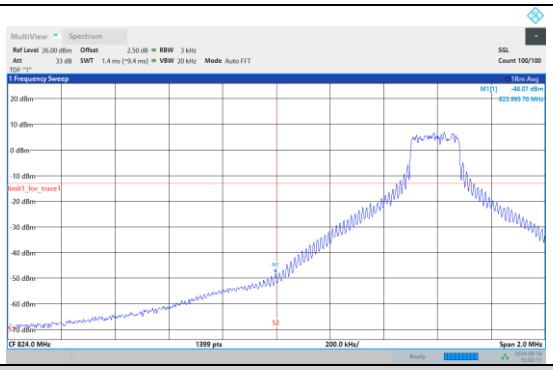


Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-1RB#0

Band5-10MHz-16QAM-20450-50RB#0



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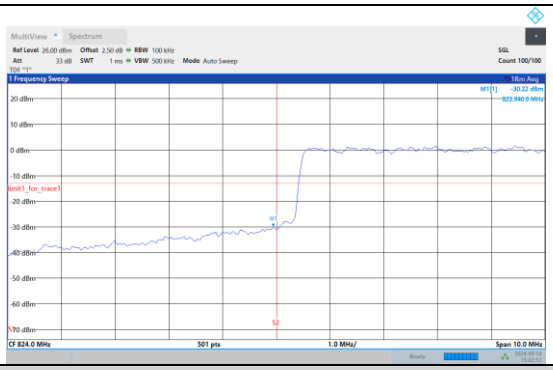
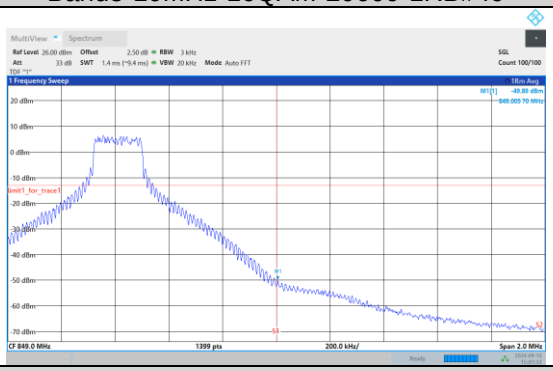


Band5-10MHz-16QAM-20600-50RB#0



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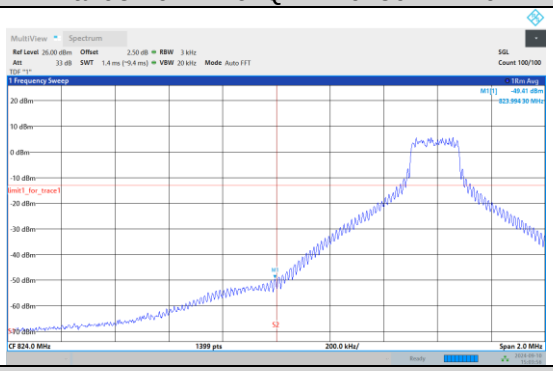
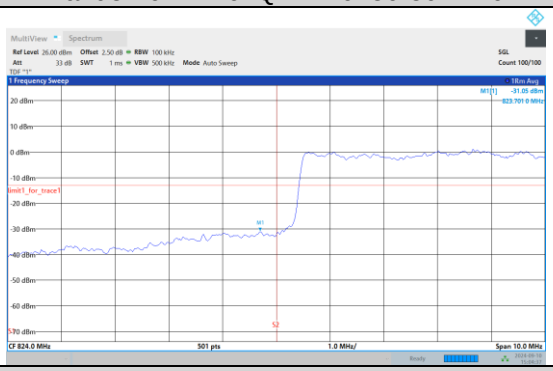
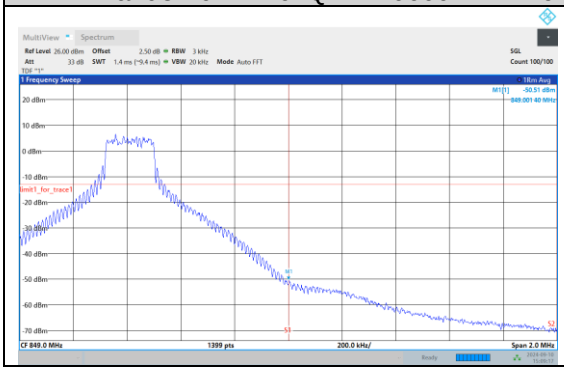
Band5-10MHz-64QAM-20450-50RB#0



Band5-10MHz-64QAM-20600-1RB#49



Band5-10MHz-64QAM-20600-50RB#0

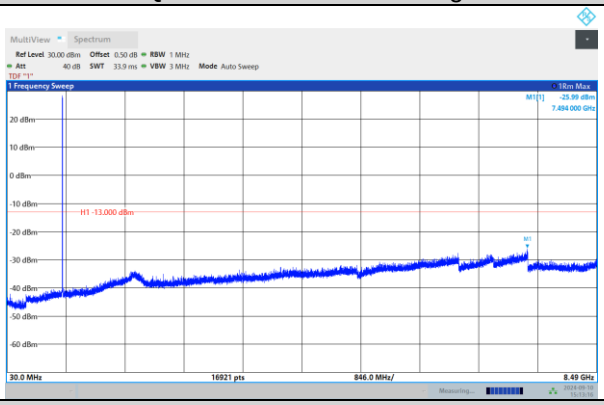
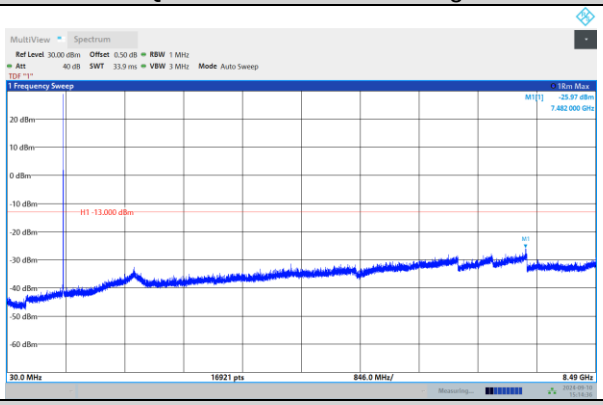
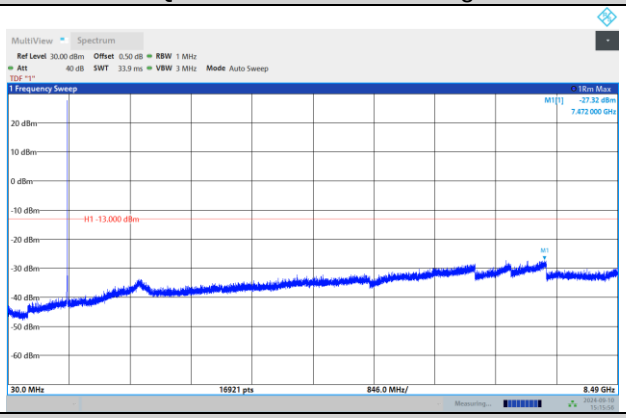
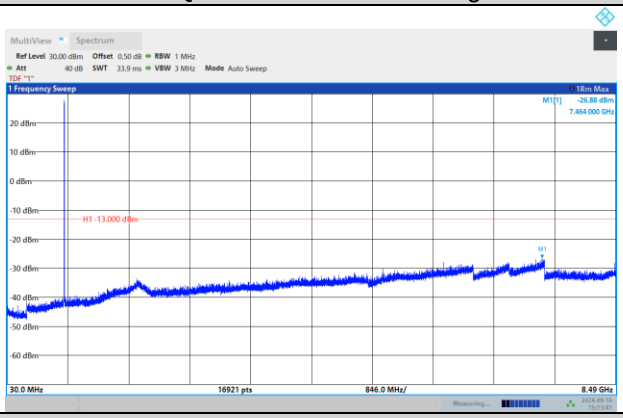
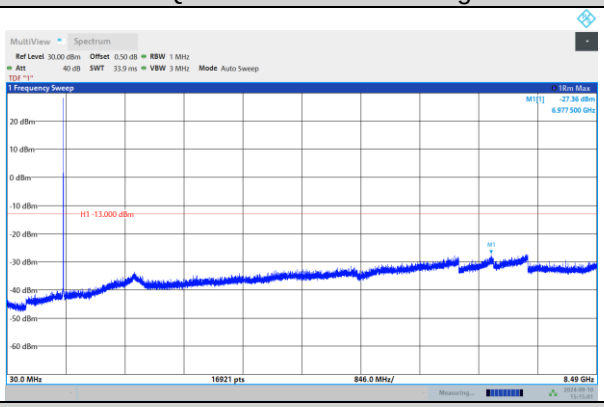
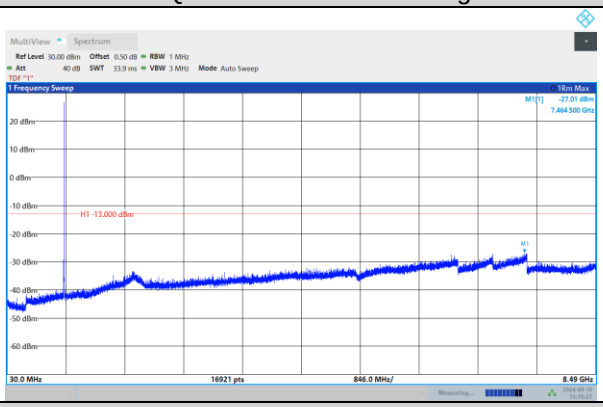


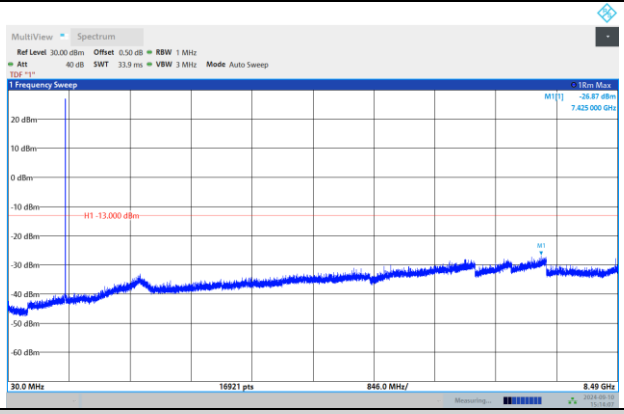
CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	64QAM	20415	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	64QAM	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	3MHz	64QAM	20635	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	64QAM	20425	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	64QAM	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	5MHz	64QAM	20625	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	64QAM	20450	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	64QAM	20525	1RB#0	Range:30~8490MHz	See Graph	PASS
Band5	10MHz	64QAM	20600	1RB#0	Range:30~8490MHz	See Graph	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0-Range:30~8490MHz	Band5-1.4MHz-QPSK-20525-1RB#0-Range:30~8490MHz
	
Band5-1.4MHz-QPSK-20643-1RB#0-Range:30~8490MHz	Band5-1.4MHz-16QAM-20407-1RB#0-Range:30~8490MHz
	
Band5-1.4MHz-16QAM-20525-1RB#0-Range:30~8490MHz	Band5-1.4MHz-16QAM-20643-1RB#0-Range:30~8490MHz
	
Band5-1.4MHz-64QAM-20407-1RB#0-Range:30~8490MHz	Band5-1.4MHz-64QAM-20525-1RB#0-Range:30~8490MHz



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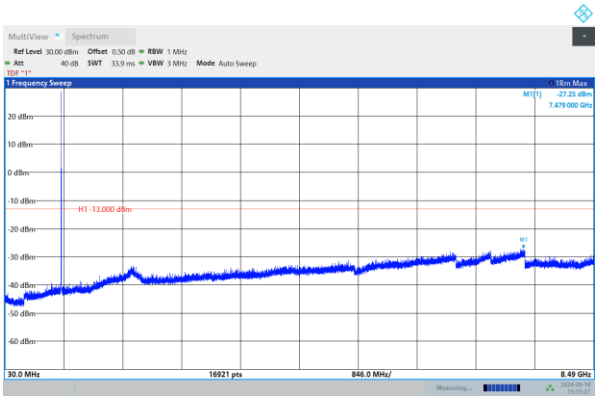
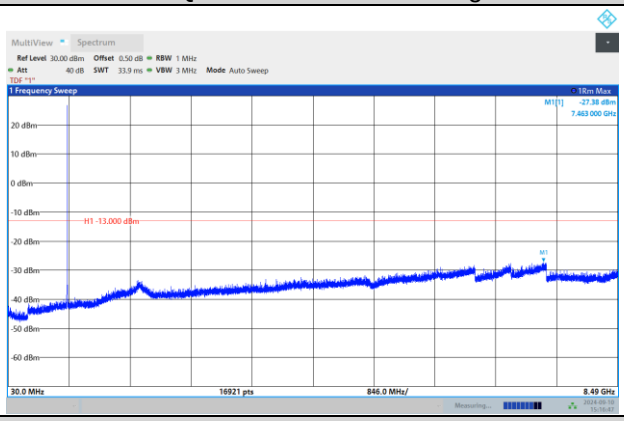


Band5-3MHz-QPSK-20415-1RB#0-Range:30~8490MHz



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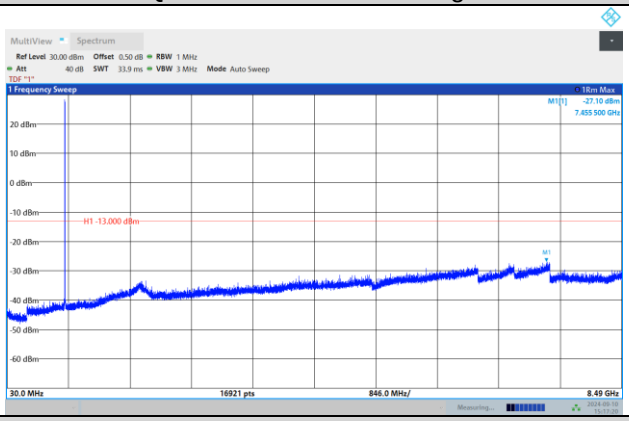

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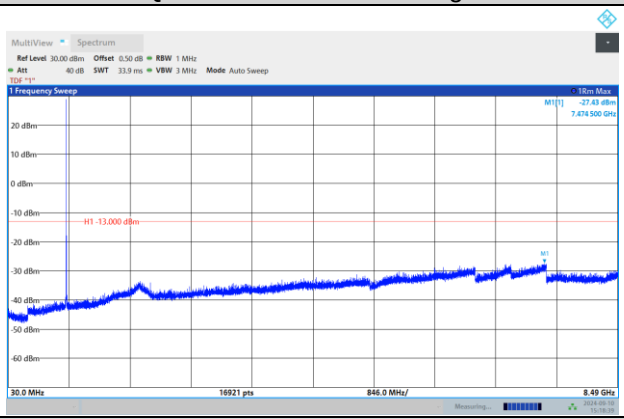

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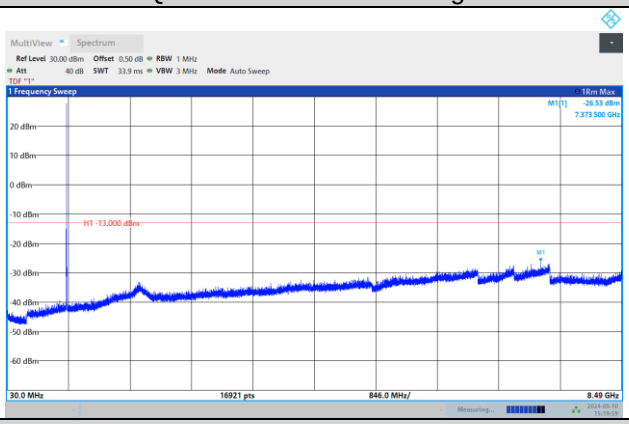

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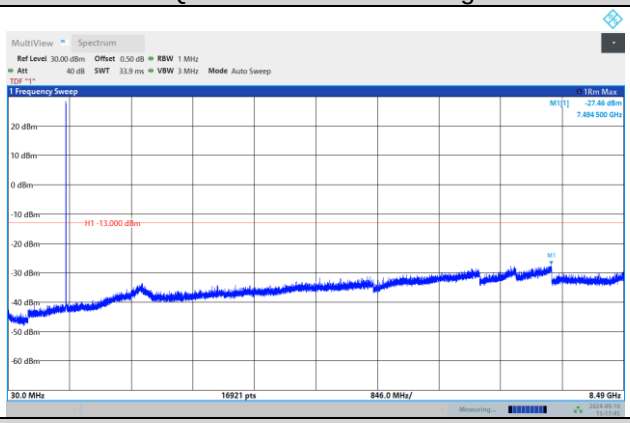

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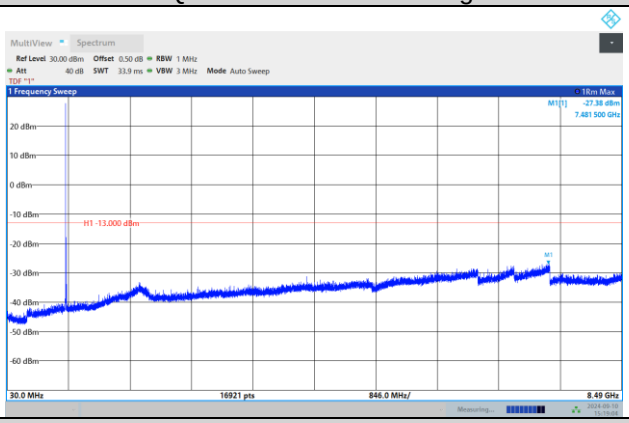

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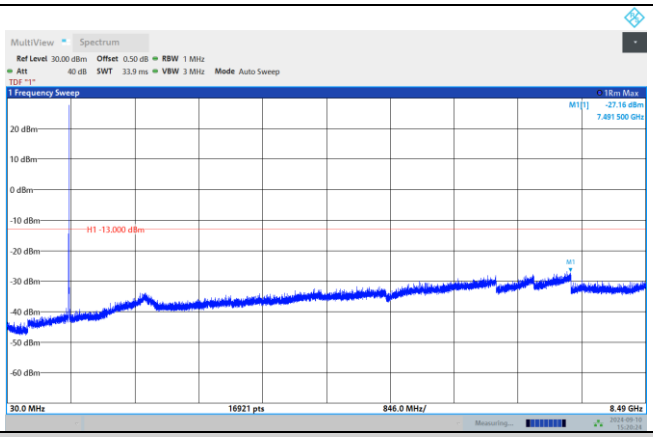

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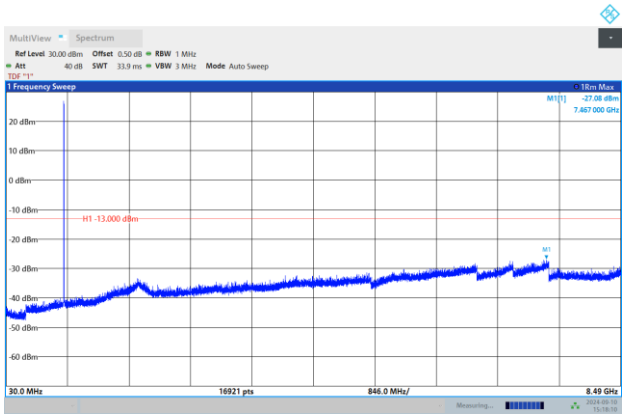
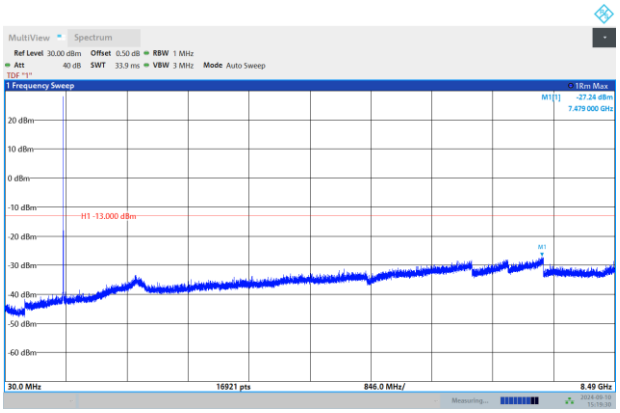
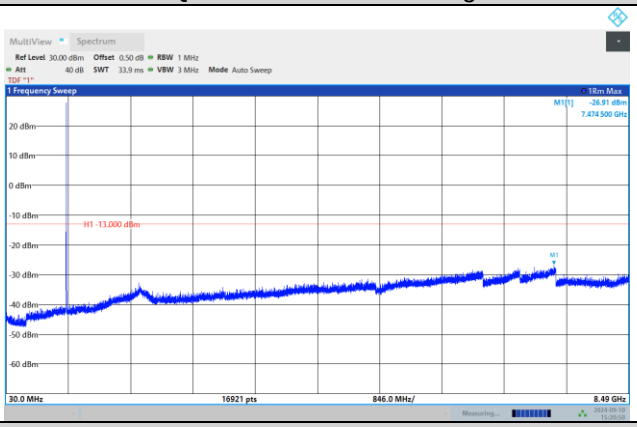


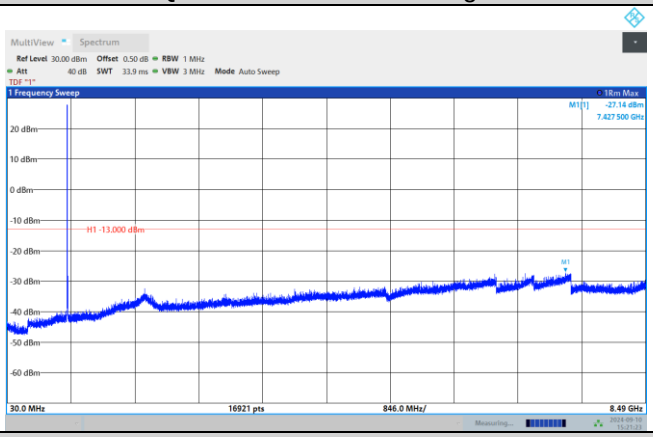
Band5-3MHz-64QAM-20635-1RB#0-Range:30~8490MHz



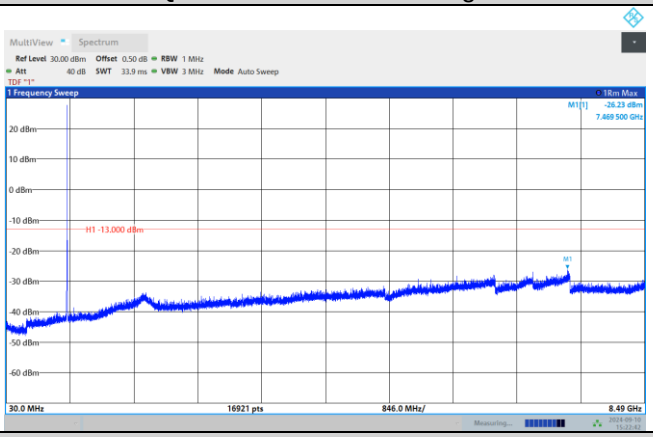
Band5-5MHz-QPSK-20425-1RB#0-Range:30~8490MHz



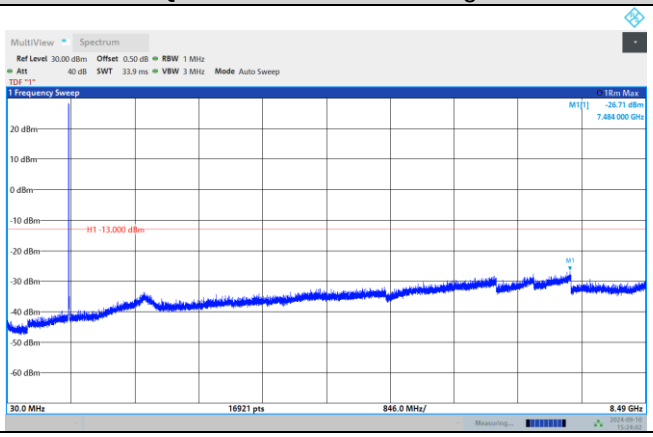
Band5-5MHz-QPSK-20525-1RB#0-Range:30~8490MHz

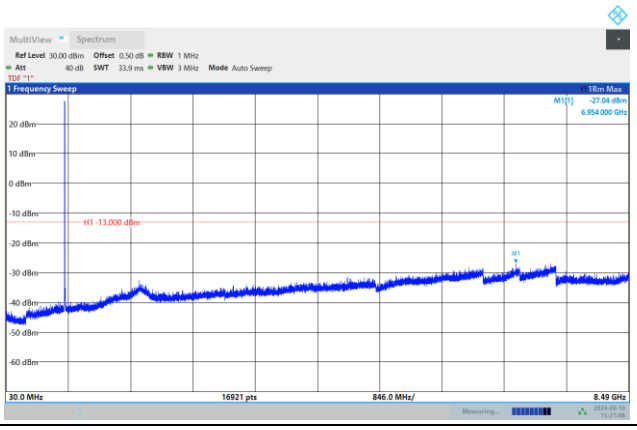


Band5-5MHz-QPSK-20625-1RB#0-Range:30~8490MHz

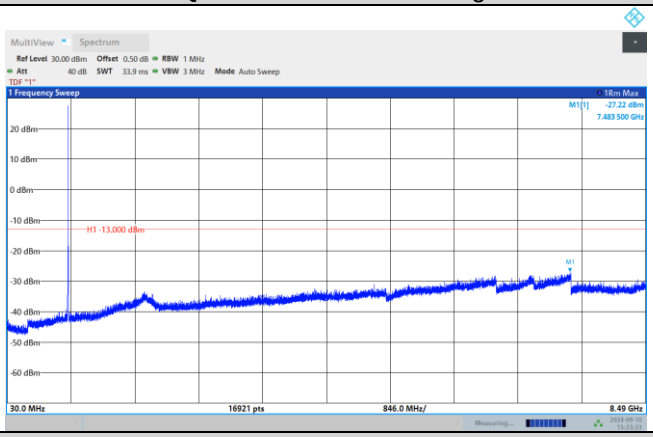


Band5-5MHz-16QAM-20425-1RB#0-Range:30~8490MHz

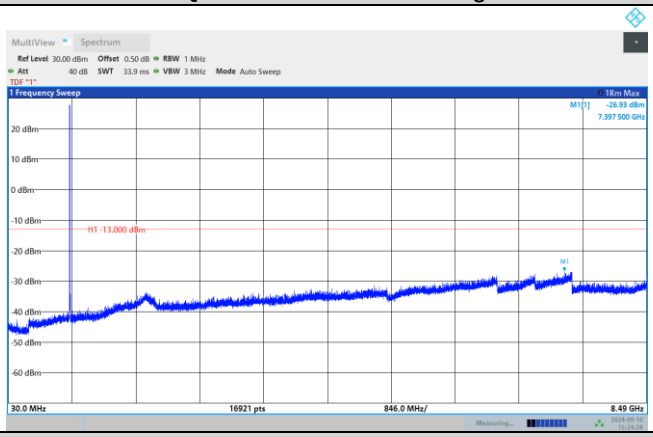




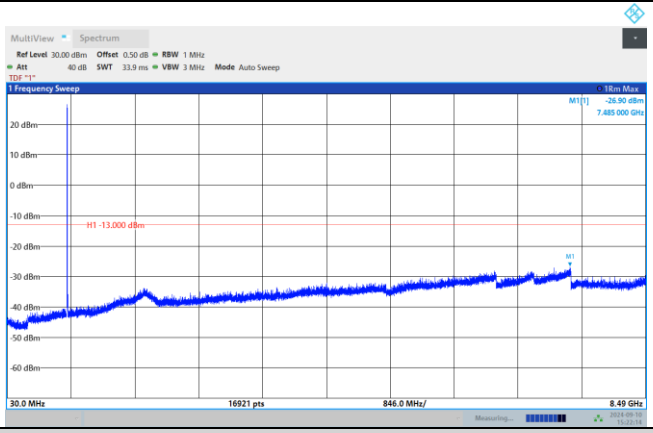
Band5-5MHz-16QAM-20525-1RB#0-Range:30~8490MHz



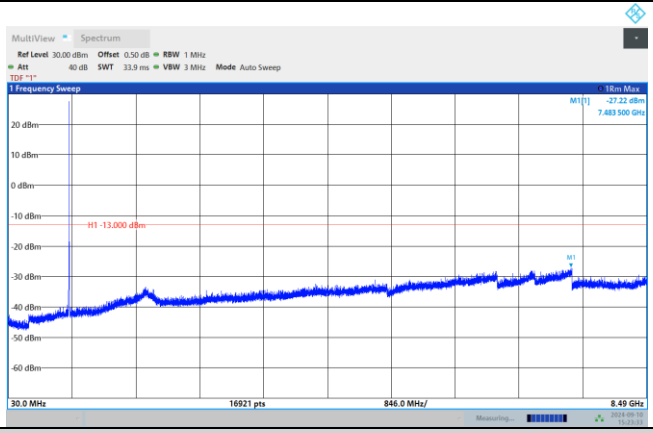
Band5-5MHz-16QAM-20625-1RB#0-Range:30~8490MHz



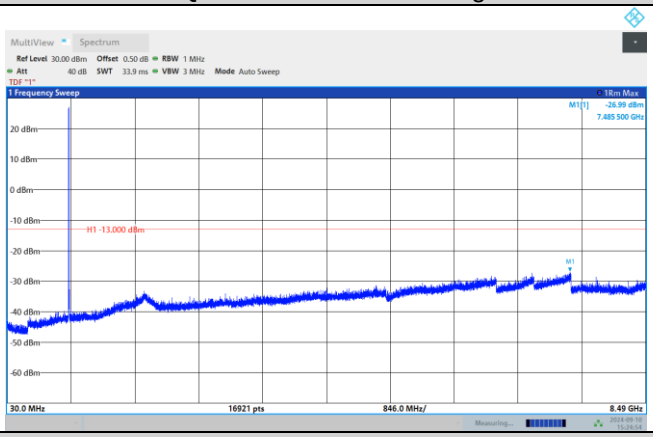
Band5-5MHz-64QAM-20425-1RB#0-Range:30~8490MHz



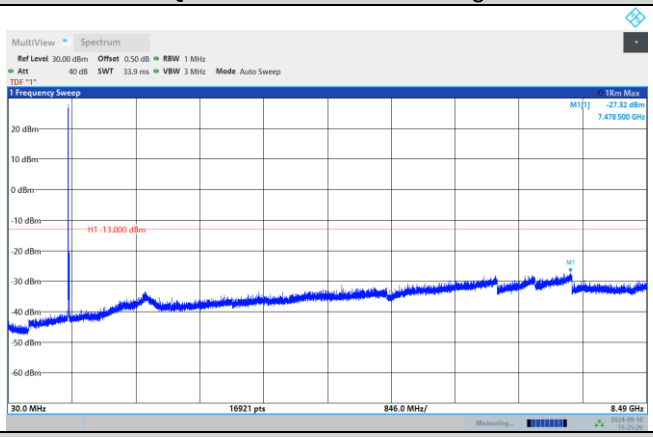
Band5-5MHz-64QAM-20525-1RB#0-Range:30~8490MHz



Band5-5MHz-64QAM-20625-1RB#0-Range:30~8490MHz

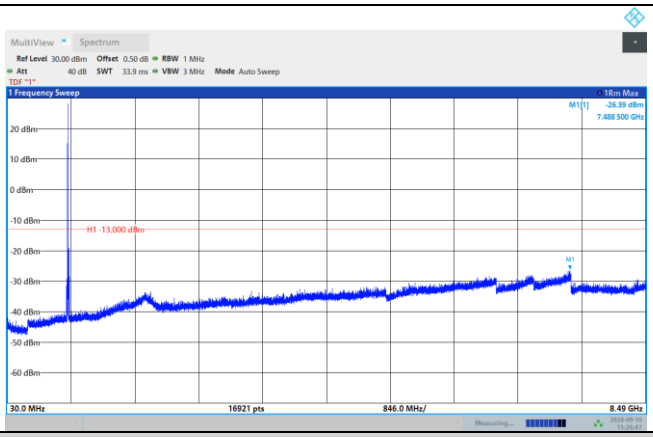


Band5-10MHz-QPSK-20450-1RB#0-Range:30~8490MHz

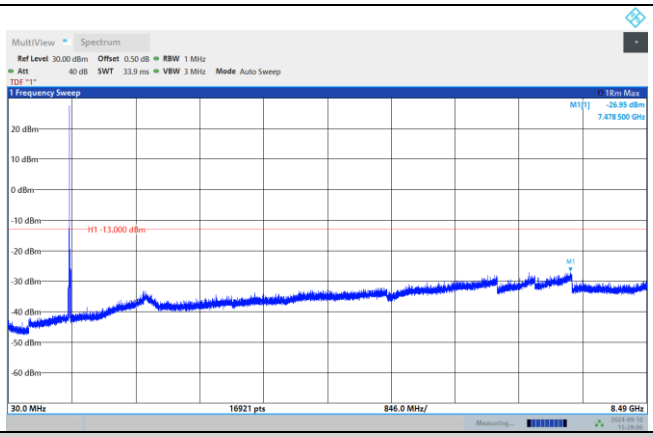


Band5-10MHz-QPSK-20525-1RB#0-Range:30~8490MHz

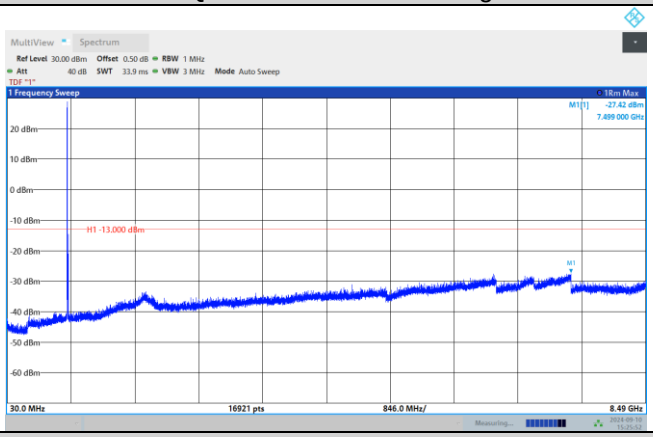
Band5-10MHz-QPSK-20600-1RB#0-Range:30~8490MHz



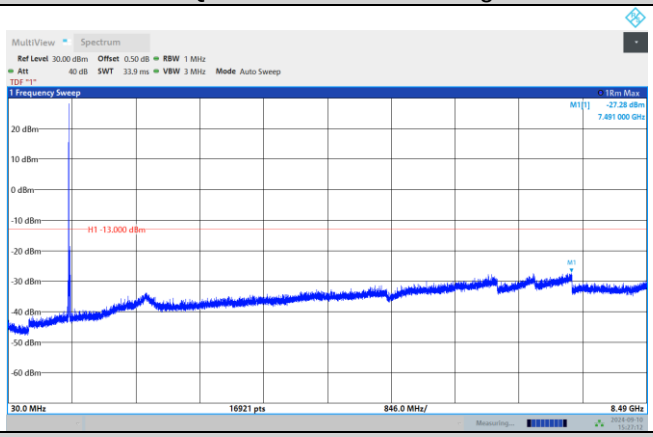
Band5-10MHz-16QAM-20450-1RB#0-Range:30~8490MHz



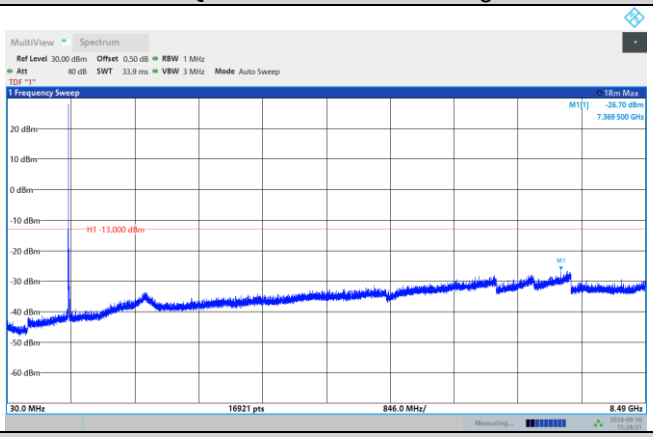
Band5-10MHz-16QAM-20525-1RB#0-Range:30~8490MHz



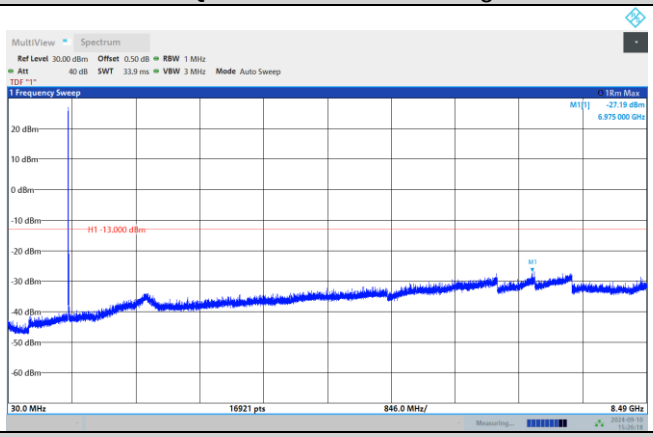
Band5-10MHz-16QAM-20600-1RB#0-Range:30~8490MHz



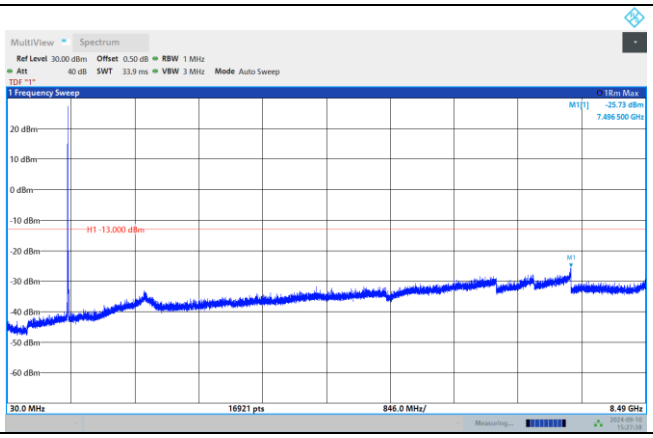
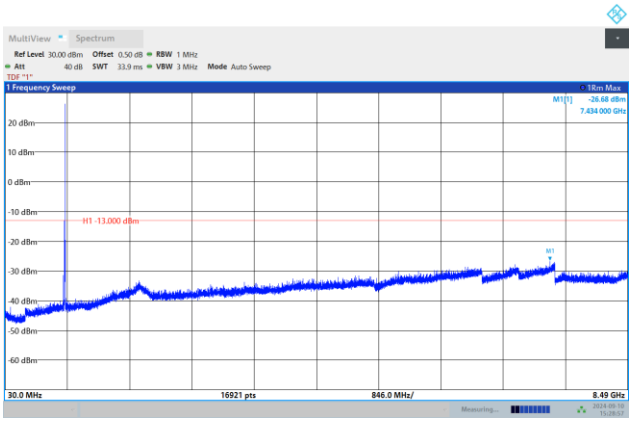
Band5-10MHz-64QAM-20450-1RB#0-Range:30~8490MHz



Band5-10MHz-64QAM-20525-1RB#0-Range:30~8490MHz



Band5-10MHz-64QAM-20600-1RB#0-Range:30~8490MHz

MultiView
Spectrum
Ref Level 30.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 33.9 ms VBW 3 MHz Mode Auto Sweep
TDF "1"
1 Frequency Sweep
1Rm Max
M1[1] -25.73 dBm
7.496 500 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
H1 -13.000 dBm
M1
30.0 MHz
16921 pts
846.0 MHz/
8.49 GHz
Measuring...

MultiView
Spectrum
Ref Level 30.00 dBm Offset 0.50 dB RBW 1 MHz
Att 40 dB SWT 33.9 ms VBW 3 MHz Mode Auto Sweep
TDF "1"
1 Frequency Sweep
1Rm Max
M1[1] -26.68 dBm
7.434 000 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
H1 -13.000 dBm
M1
30.0 MHz
16921 pts
846.0 MHz/
8.49 GHz
Measuring...

FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	LV	NT	-14.28	-0.0172	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	NT	1.98	0.0024	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	HV	NT	-11.73	-0.0141	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	LV	NT	-5.36	-0.0064	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	NT	-11.06	-0.0132	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	HV	NT	3.81	0.0046	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	LV	NT	-6.83	-0.0081	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	NT	-12.11	-0.0143	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	HV	NT	-4.74	-0.0056	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	8.31	0.0100	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-10.93	-0.0132	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	5.35	0.0065	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-4.00	-0.0048	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	6.37	0.0077	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	2.46	0.0030	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-10.82	-0.0131	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-2.77	-0.0033	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-2.36	-0.0028	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	5.92	0.0071	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.42	-0.0017	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	10.89	0.0130	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	11.80	0.0141	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-12.05	-0.0144	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-4.19	-0.0050	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.59	-0.0007	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.79	-0.0033	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-4.71	-0.0056	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-7.79	-0.0092	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	11.18	0.0132	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	3.49	0.0041	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	1.60	0.0019	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-13.20	-0.0156	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	2.97	0.0035	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-1.26	-0.0015	±2.5	PASS

Band5	10MHz	QPSK	20600	50RB#0	NV	40	-6.81	-0.0081	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-12.22	-0.0145	±2.5	PASS

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
fL-|MAX(△f)|	824.518986	≥824	PASS
fH+|MAX(△f)|	848.47101	≤849	

Note: 1. |MAX(△f)| = Max Deviation
2. fL = Occ low channel fl(-13dBm/MHz)
3. fH = Occ High channel fH(-13dBm/MHz)
4. |MAX(△f)| =14.28Hz.

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