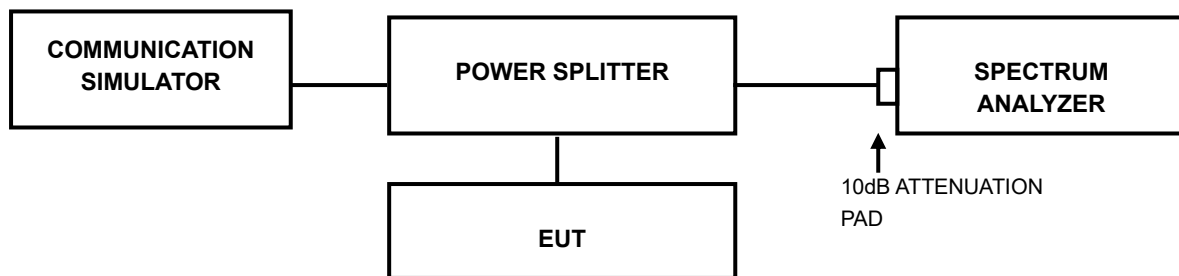


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



6 Appendix

LTE BAND41(INCLUDING LTE BAND38)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	3.68	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	5.70	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	4.28	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	7.20	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	2.90	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	6.92	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	3.00	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	5.60	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	4.98	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	7.02	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	4.38	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	7.30	13	PASS
Band41	5MHz	64QAM	39675	1RB#0	4.50	13	PASS
Band41	5MHz	64QAM	39675	25RB#0	5.88	13	PASS
Band41	5MHz	64QAM	40620	1RB#0	8.18	13	PASS
Band41	5MHz	64QAM	40620	25RB#0	7.30	13	PASS
Band41	5MHz	64QAM	41565	1RB#0	4.88	13	PASS
Band41	5MHz	64QAM	41565	25RB#0	7.86	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	5.16	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	5.98	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	4.32	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.04	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	5.34	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.88	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	4.80	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	6.00	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	3.28	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	6.64	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	5.88	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	6.54	13	PASS
Band41	10MHz	64QAM	39700	1RB#0	4.32	13	PASS
Band41	10MHz	64QAM	39700	50RB#0	6.92	13	PASS
Band41	10MHz	64QAM	40620	1RB#0	4.88	13	PASS
Band41	10MHz	64QAM	40620	50RB#0	7.40	13	PASS
Band41	10MHz	64QAM	41540	1RB#0	3.90	13	PASS
Band41	10MHz	64QAM	41540	50RB#0	6.26	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	2.78	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.32	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	4.78	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	4.84	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	3.56	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	5.62	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	4.04	13	PASS

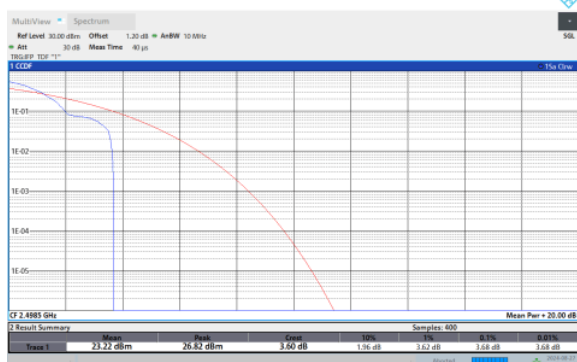


Band41	15MHz	16QAM	39725	75RB#0	6.10	13	PASS
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Band41	15MHz	16QAM	41515	1RB#0	8.64	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	6.26	13	PASS
Band41	15MHz	64QAM	39725	1RB#0	6.06	13	PASS
Band41	15MHz	64QAM	39725	75RB#0	6.54	13	PASS
Band41	15MHz	64QAM	40620	1RB#0	3.56	13	PASS
Band41	15MHz	64QAM	40620	75RB#0	6.08	13	PASS
Band41	15MHz	64QAM	41515	1RB#0	2.54	13	PASS
Band41	15MHz	64QAM	41515	75RB#0	7.48	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	1.40	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	3.74	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	2.16	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.98	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	4.04	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	4.10	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	2.52	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	5.70	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	4.28	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.16	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	4.80	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	5.60	13	PASS
Band41	20MHz	64QAM	39750	1RB#0	4.70	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	6.26	13	PASS
Band41	20MHz	64QAM	40620	1RB#0	4.80	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	6.54	13	PASS
Band41	20MHz	64QAM	41490	1RB#0	2.74	13	PASS
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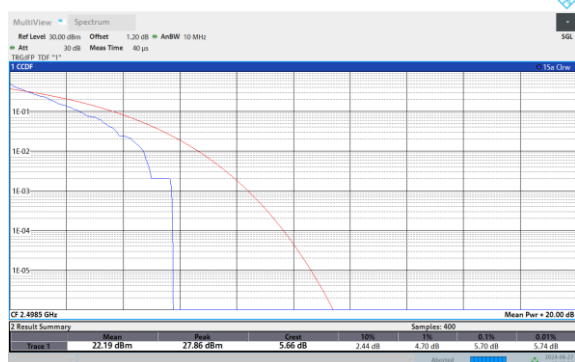


Test Graphs

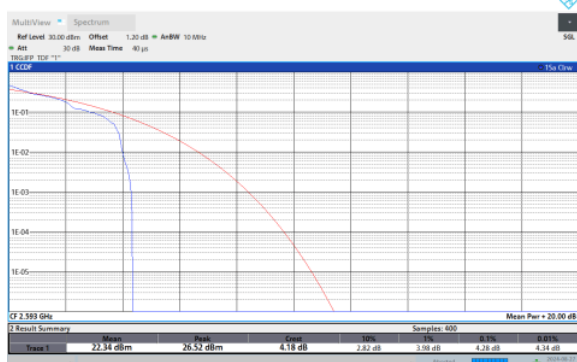
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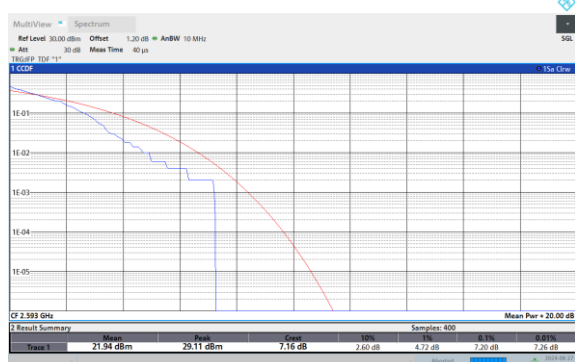
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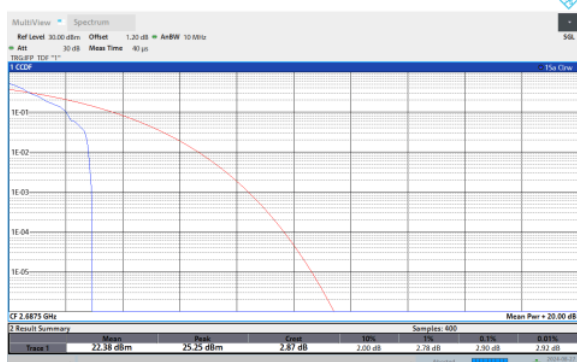
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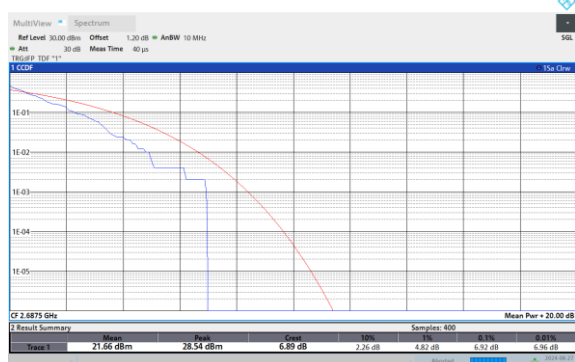
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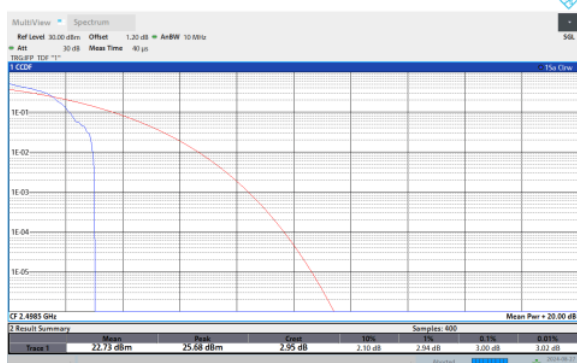
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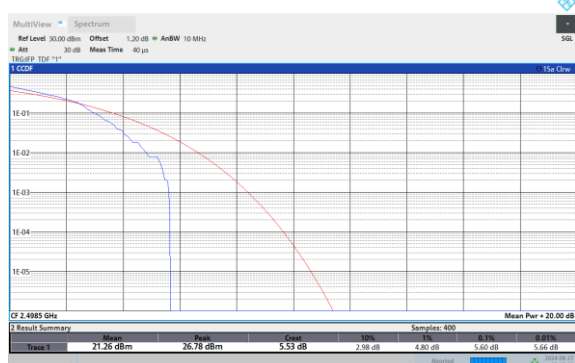
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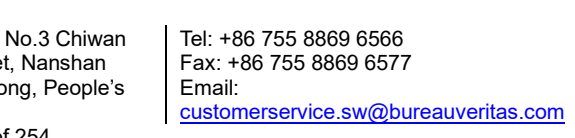
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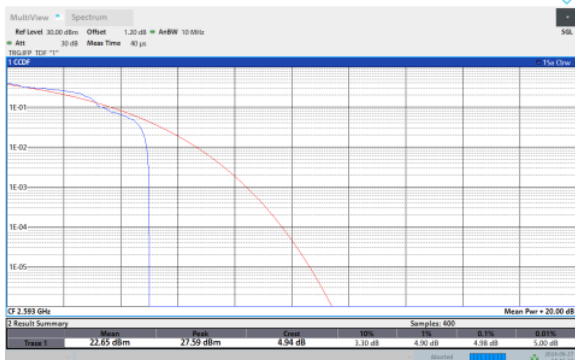
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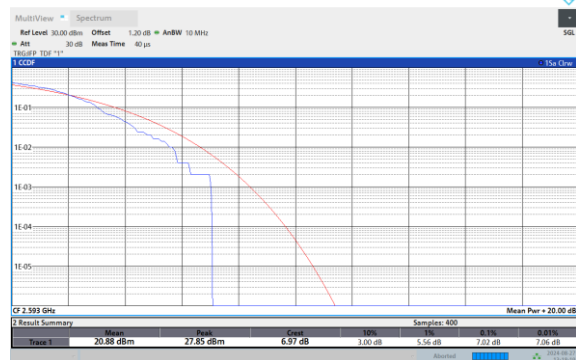


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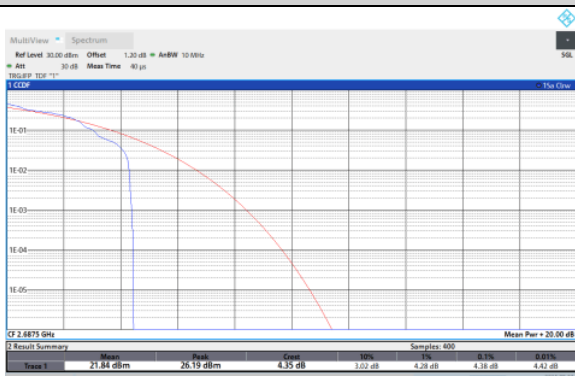
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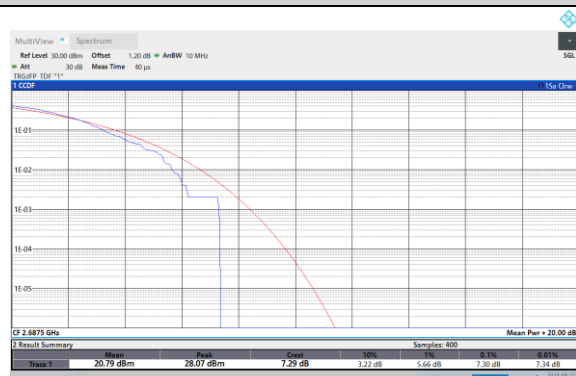
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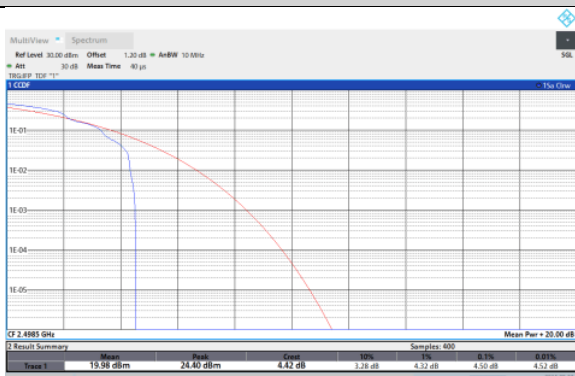
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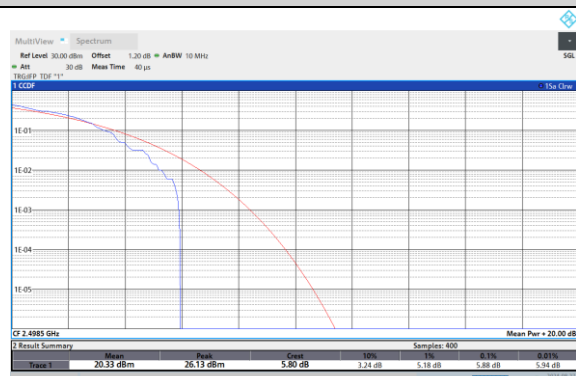
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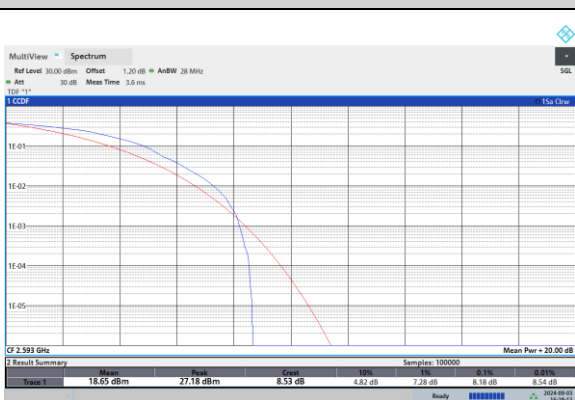
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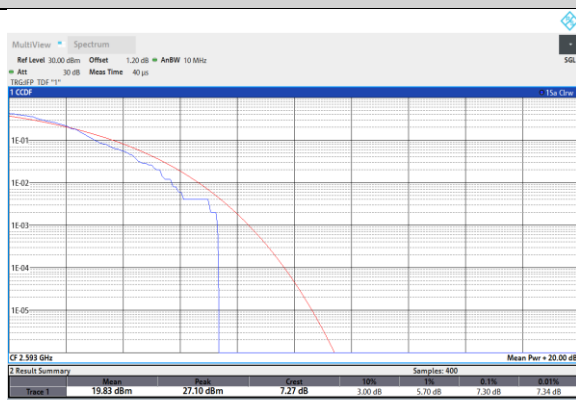
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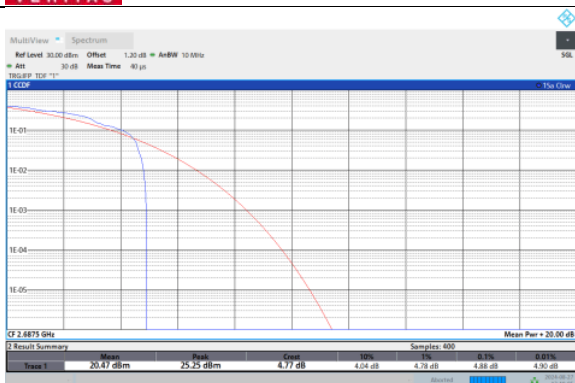
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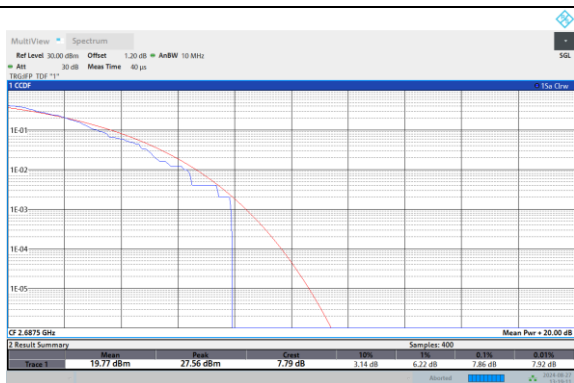
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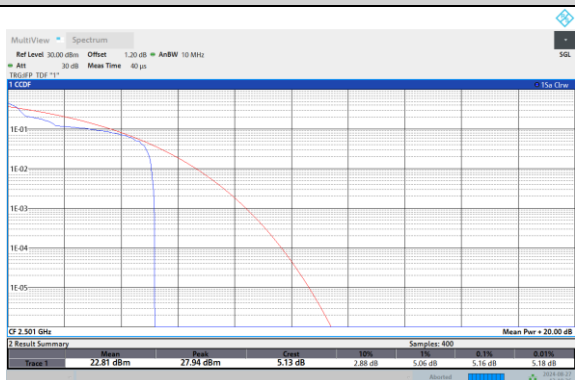
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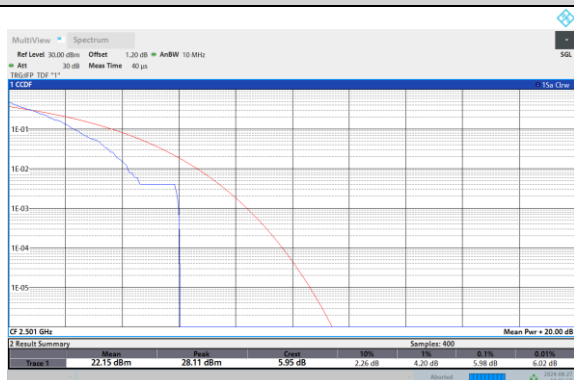
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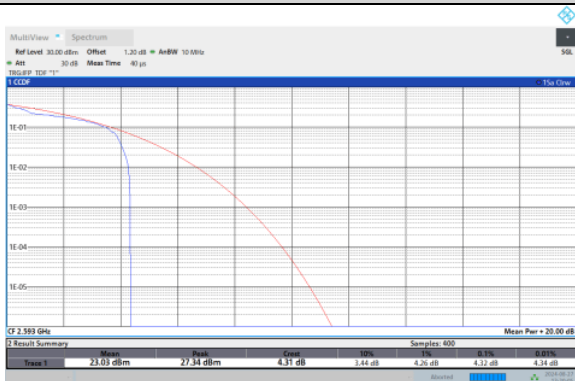
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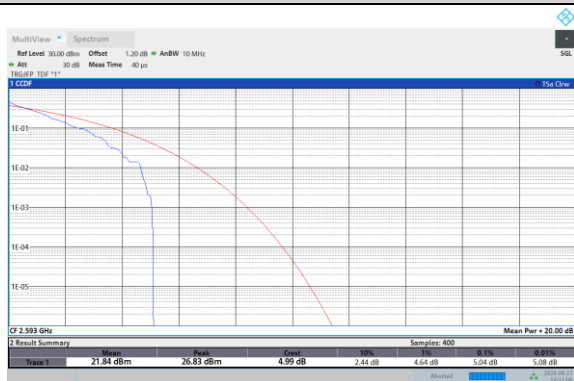
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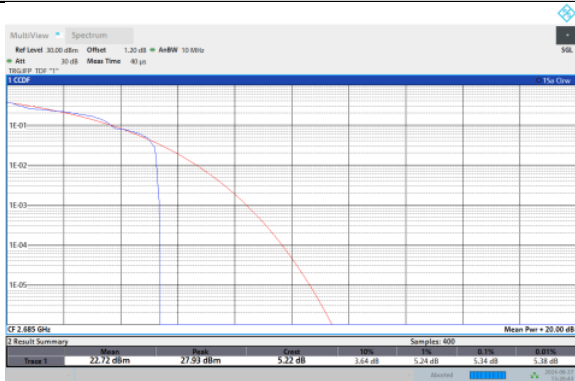
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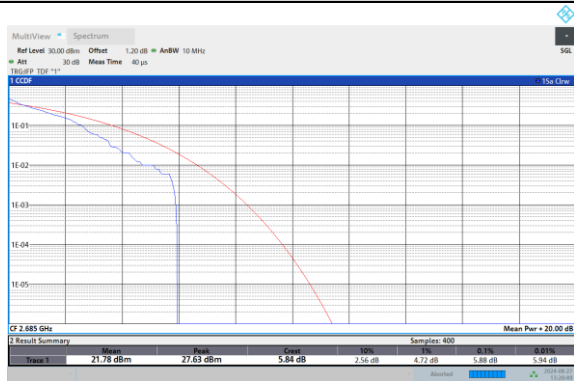
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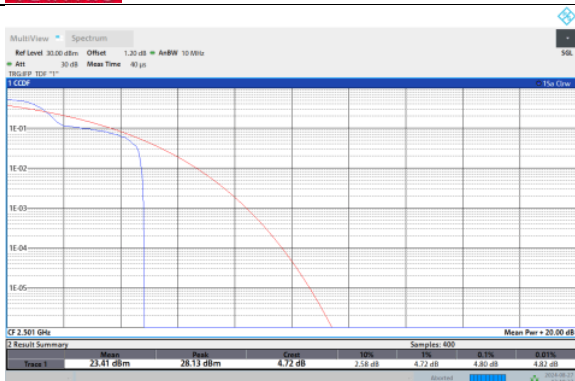
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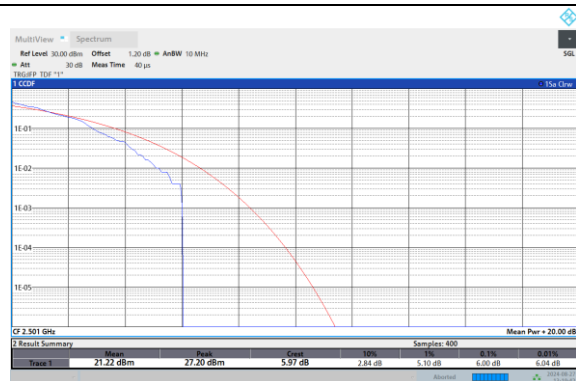
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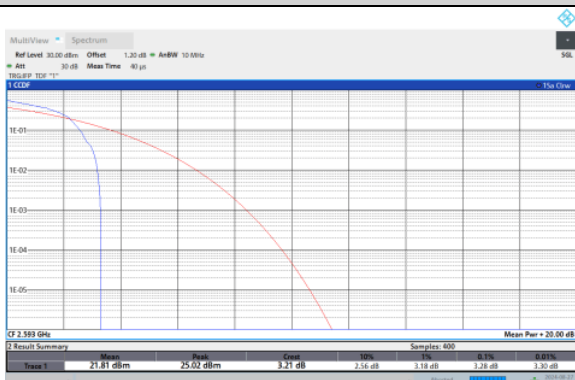
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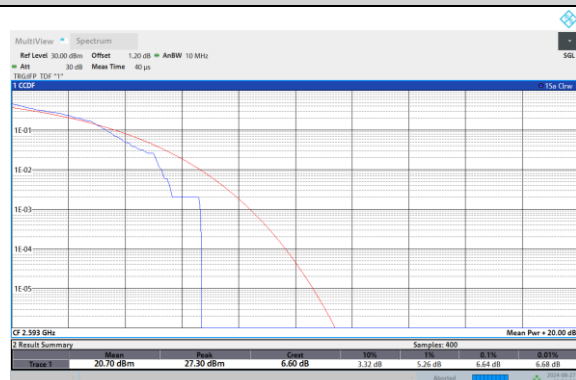
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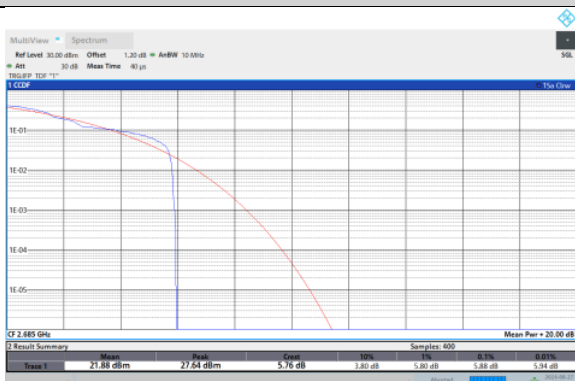
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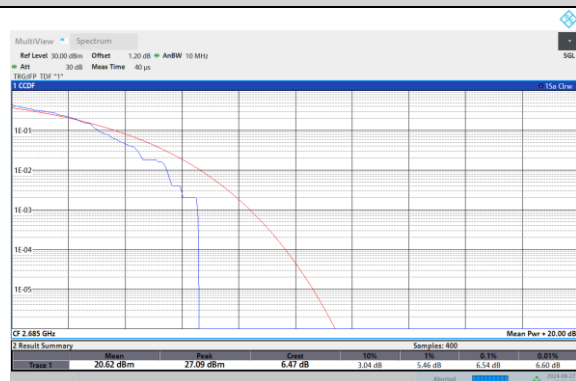
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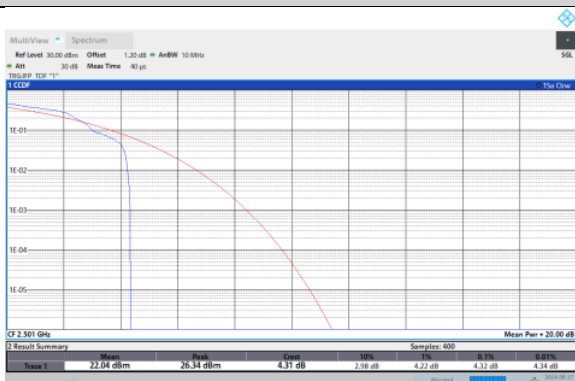
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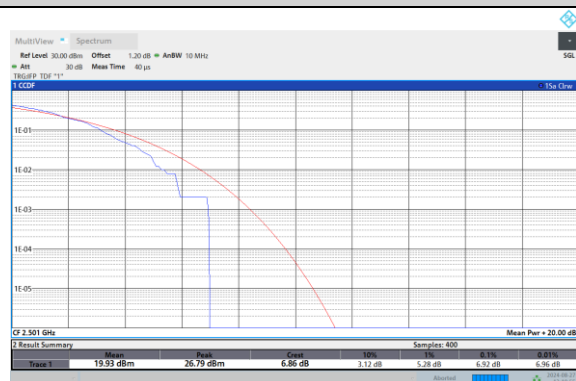
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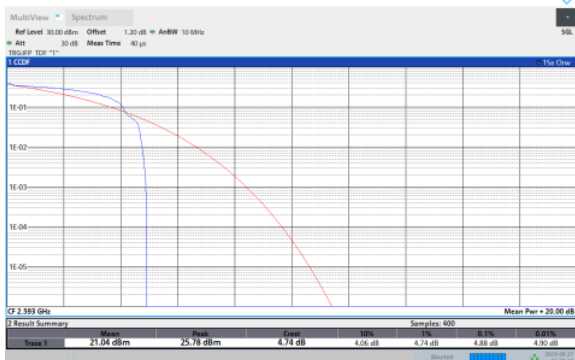
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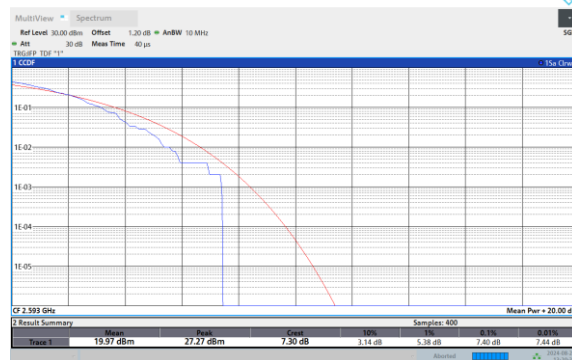
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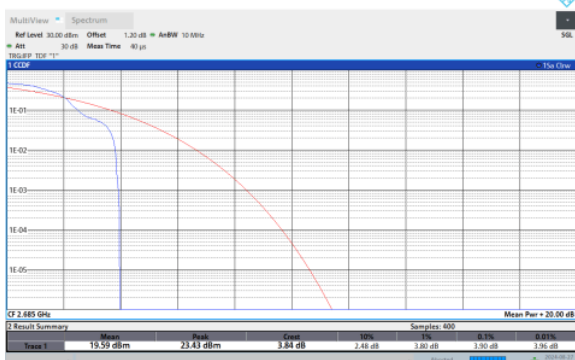
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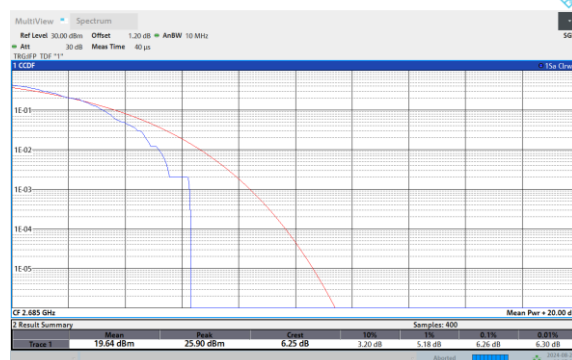
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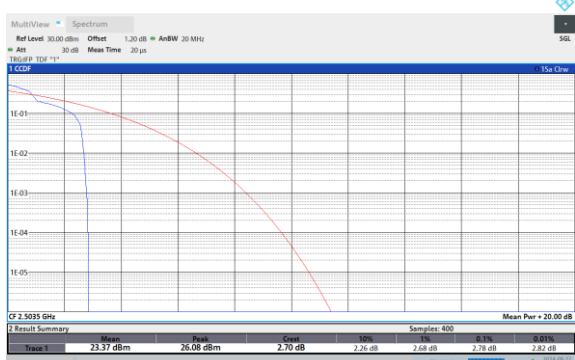
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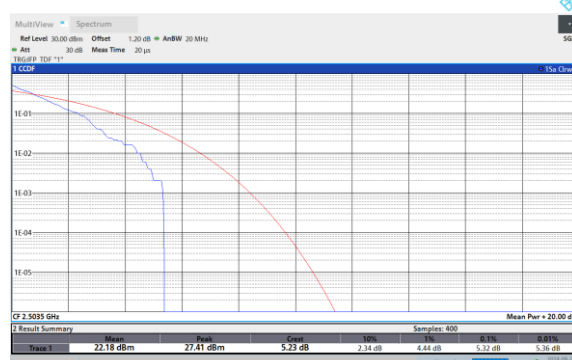
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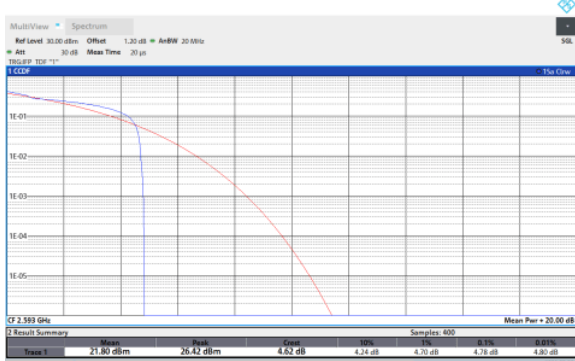
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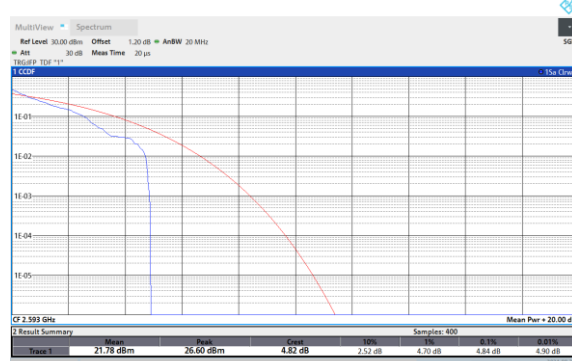
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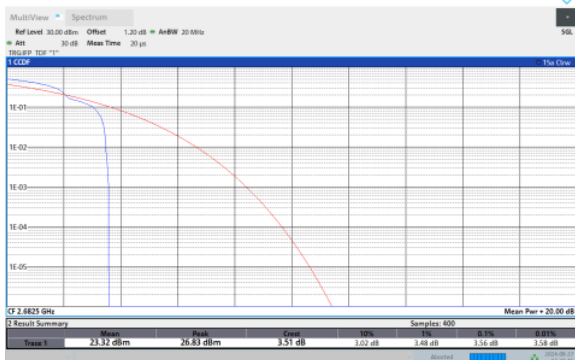
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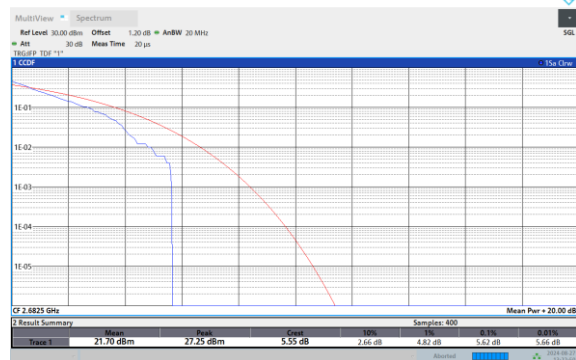
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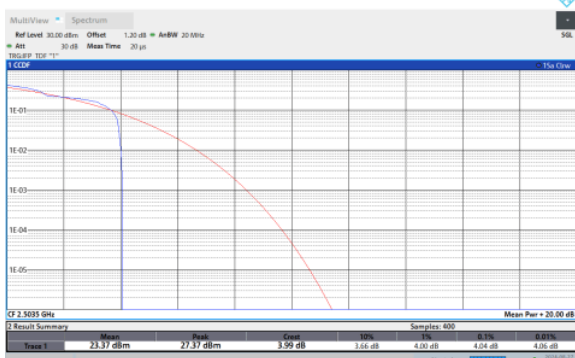
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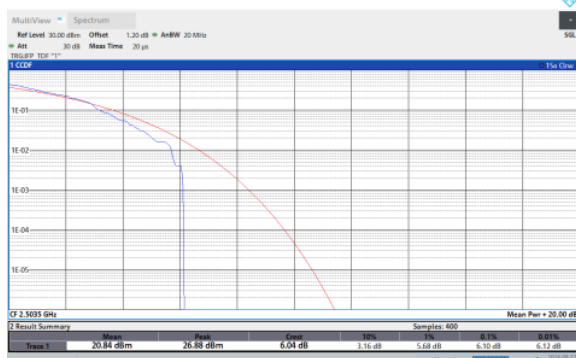
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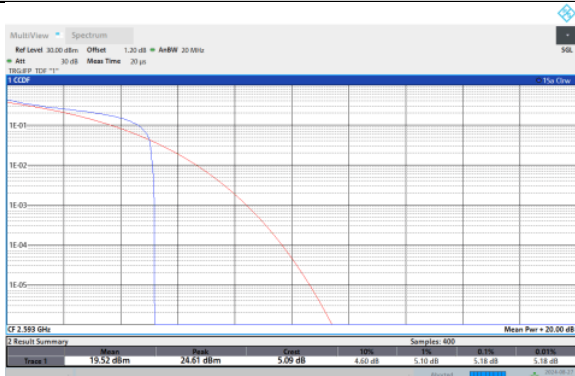
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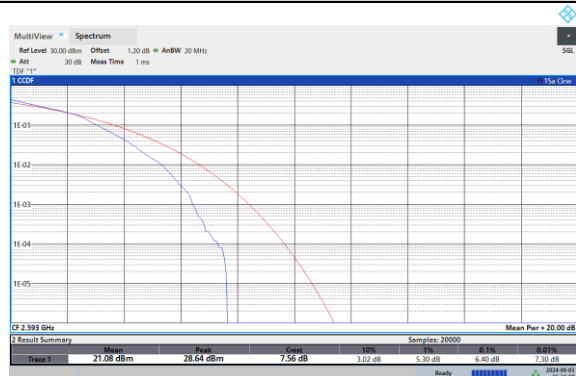
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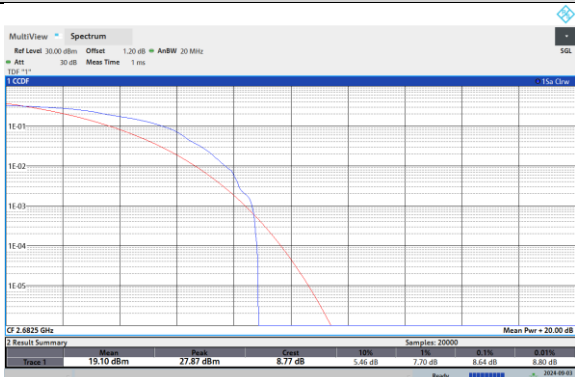
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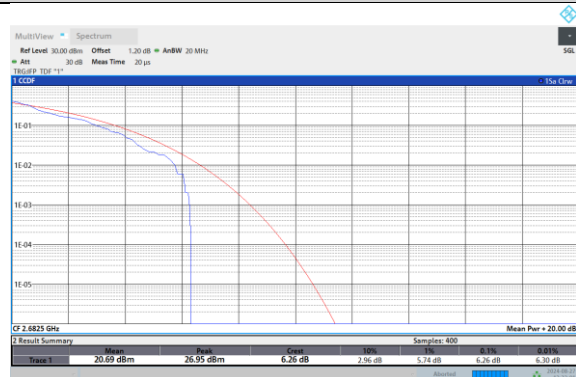
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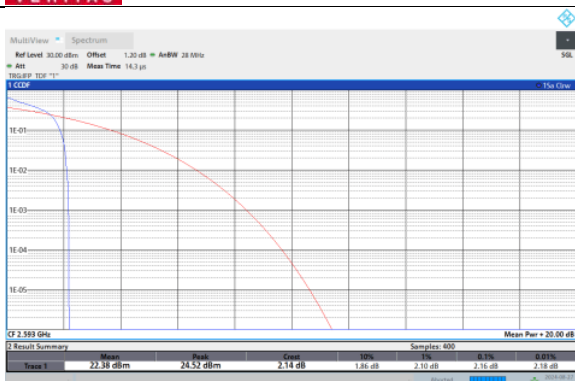


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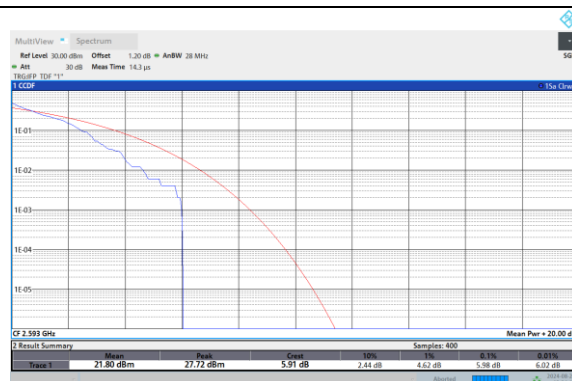


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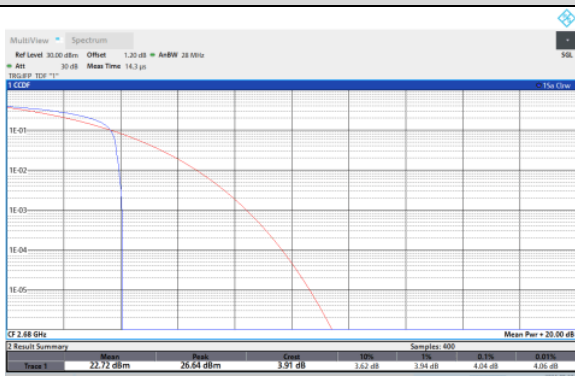
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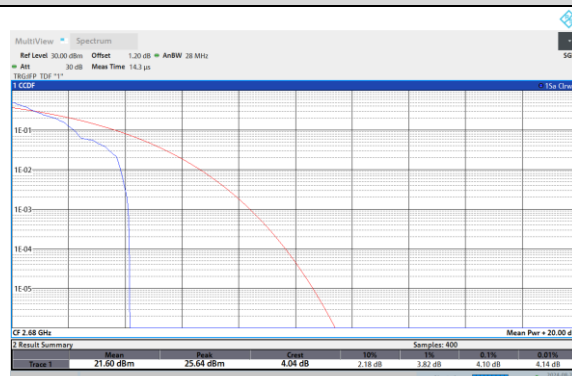
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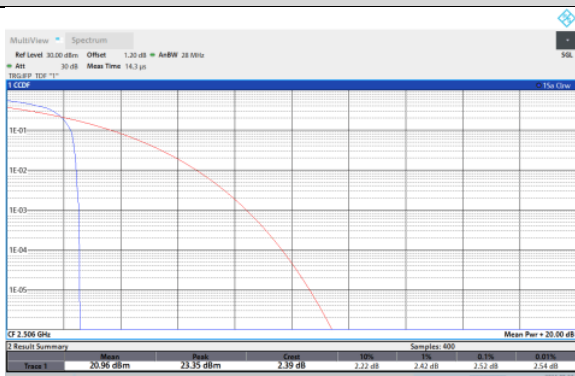
Band41-20MHz-QPSK-41490-100RB#0



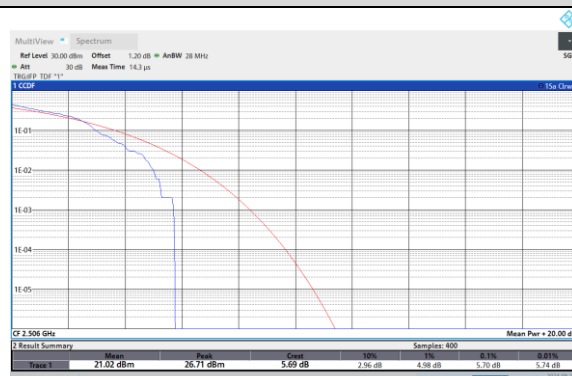
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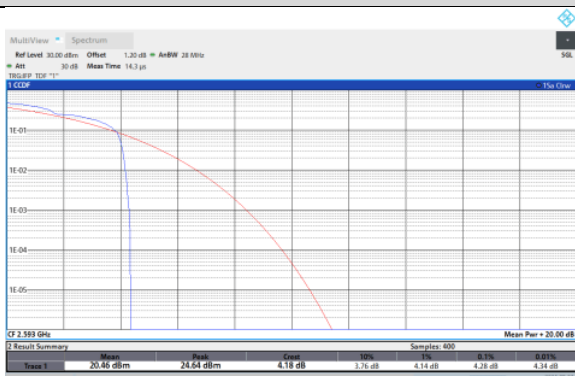
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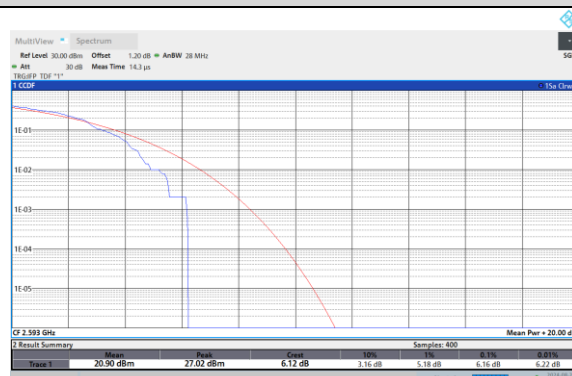
Band41-20MHz-16QAM-40620-1RB#0



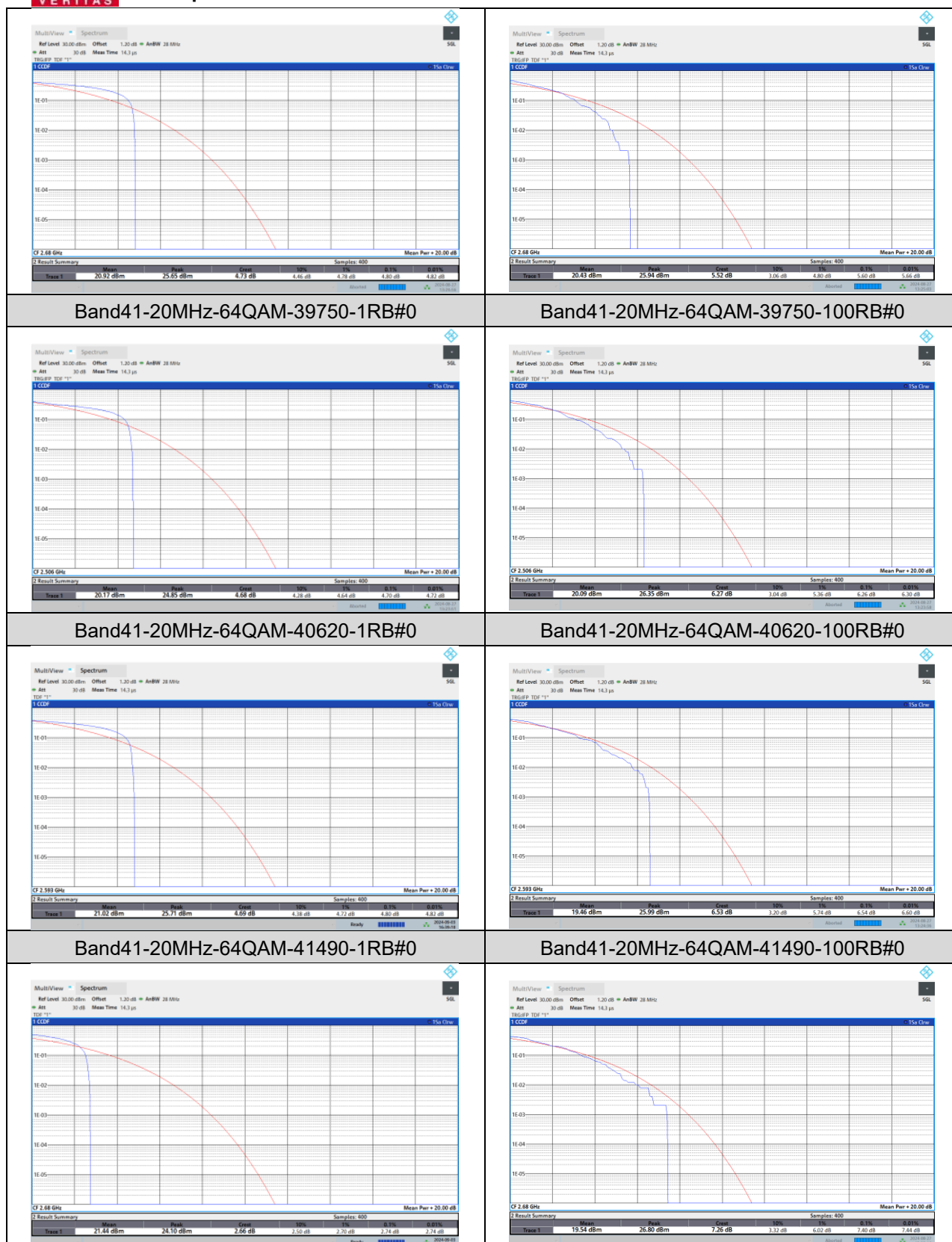
Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-1RB#0



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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

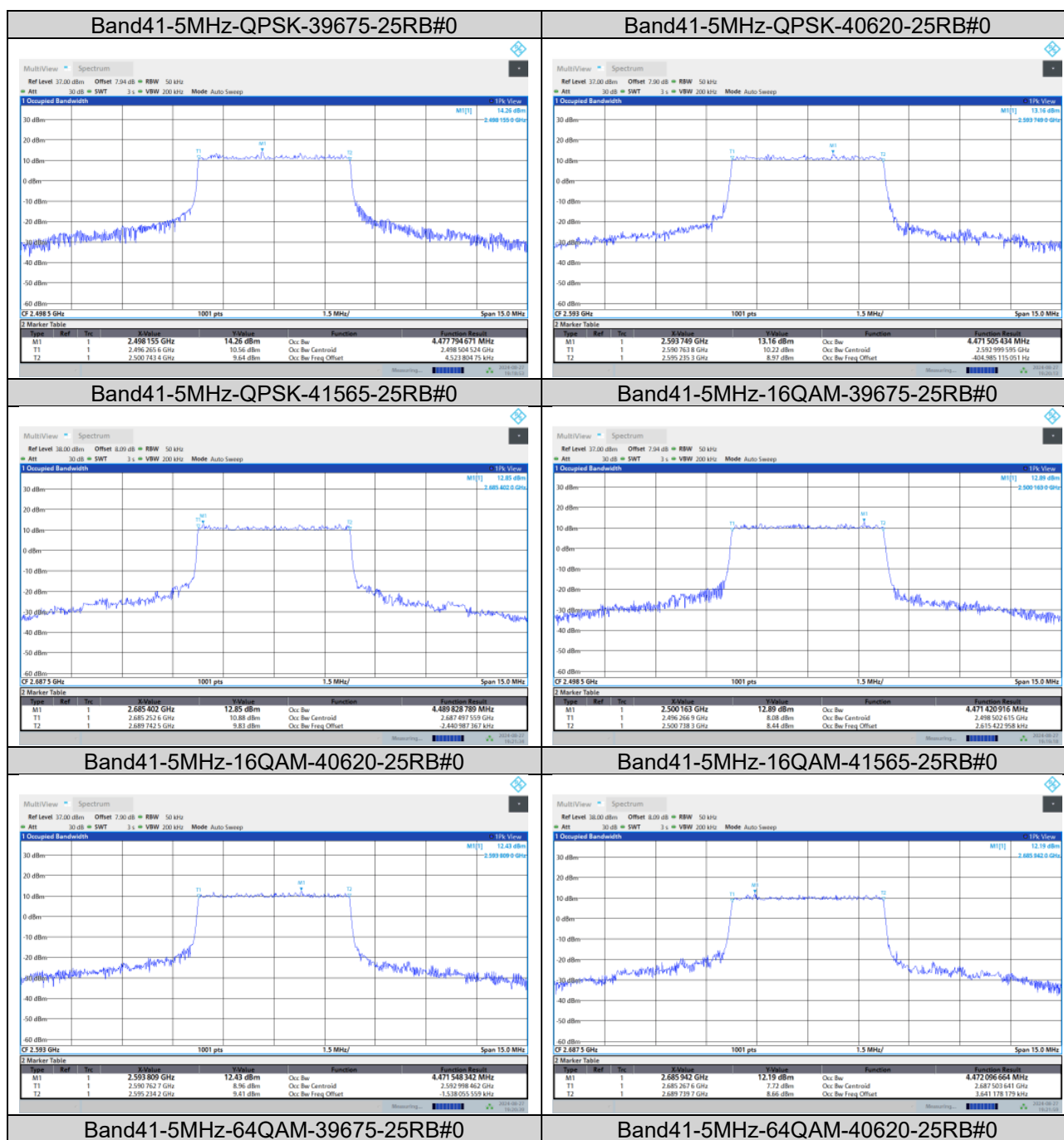
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.478	4.79	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.472	4.83	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.490	4.78	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.471	4.81	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.472	4.79	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.472	4.81	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.465	4.78	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.484	4.86	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.471	4.84	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.949	9.62	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.946	9.59	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.955	9.53	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.950	9.50	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.933	9.47	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.953	9.62	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.959	9.50	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.942	9.56	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.958	9.59	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.442	14.48	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.416	14.52	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.411	14.48	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.439	14.61	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.476	14.52	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.472	14.79	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.405	14.30	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.448	14.34	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.443	14.48	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.889	19.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.878	19.24	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.882	19.18	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.878	19.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.890	19.42	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.845	18.94	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.852	18.88	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.894	19.06	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.885	19.00	PASS



Test Graphs

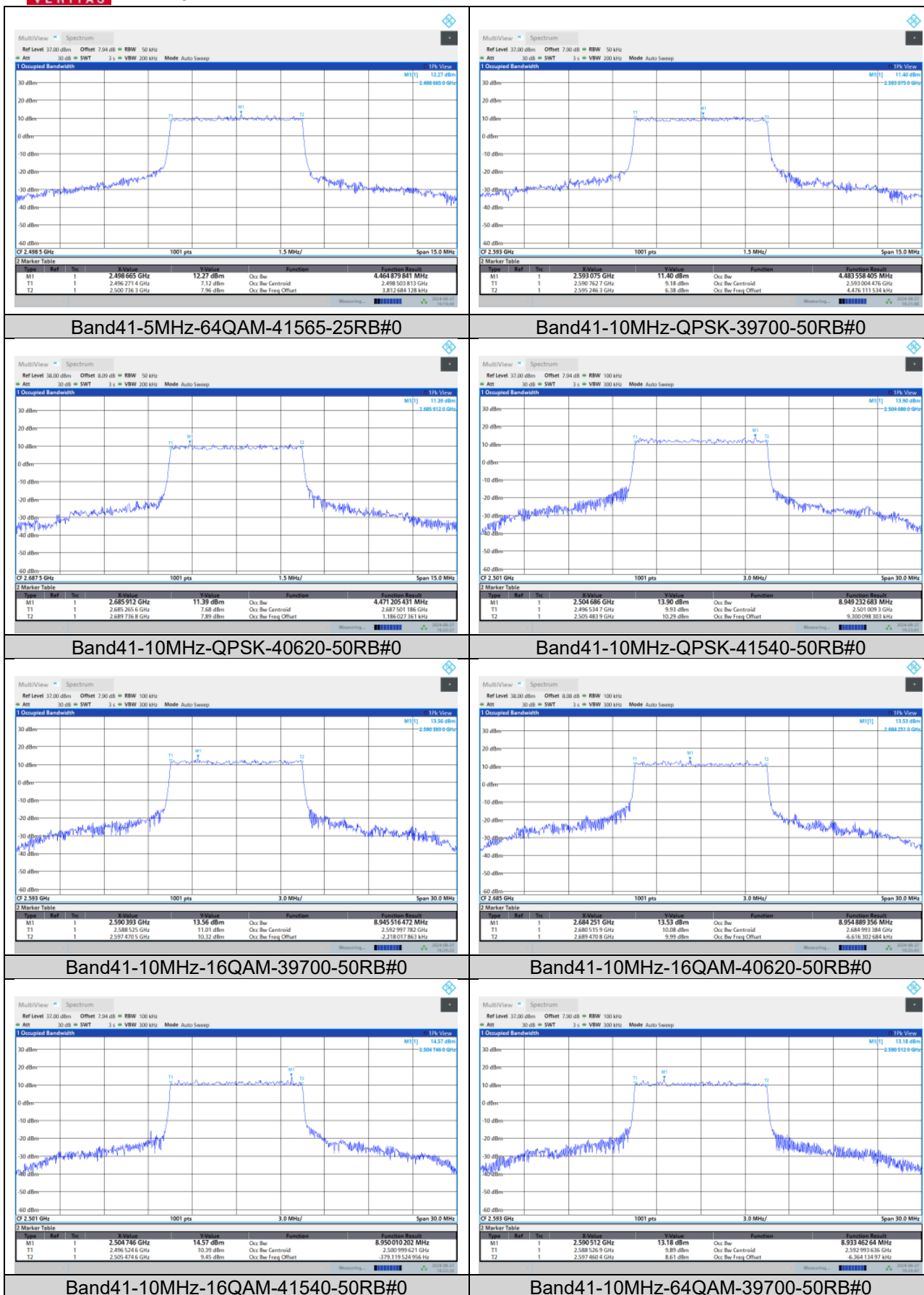
Occupied Bandwidth





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Republic of China

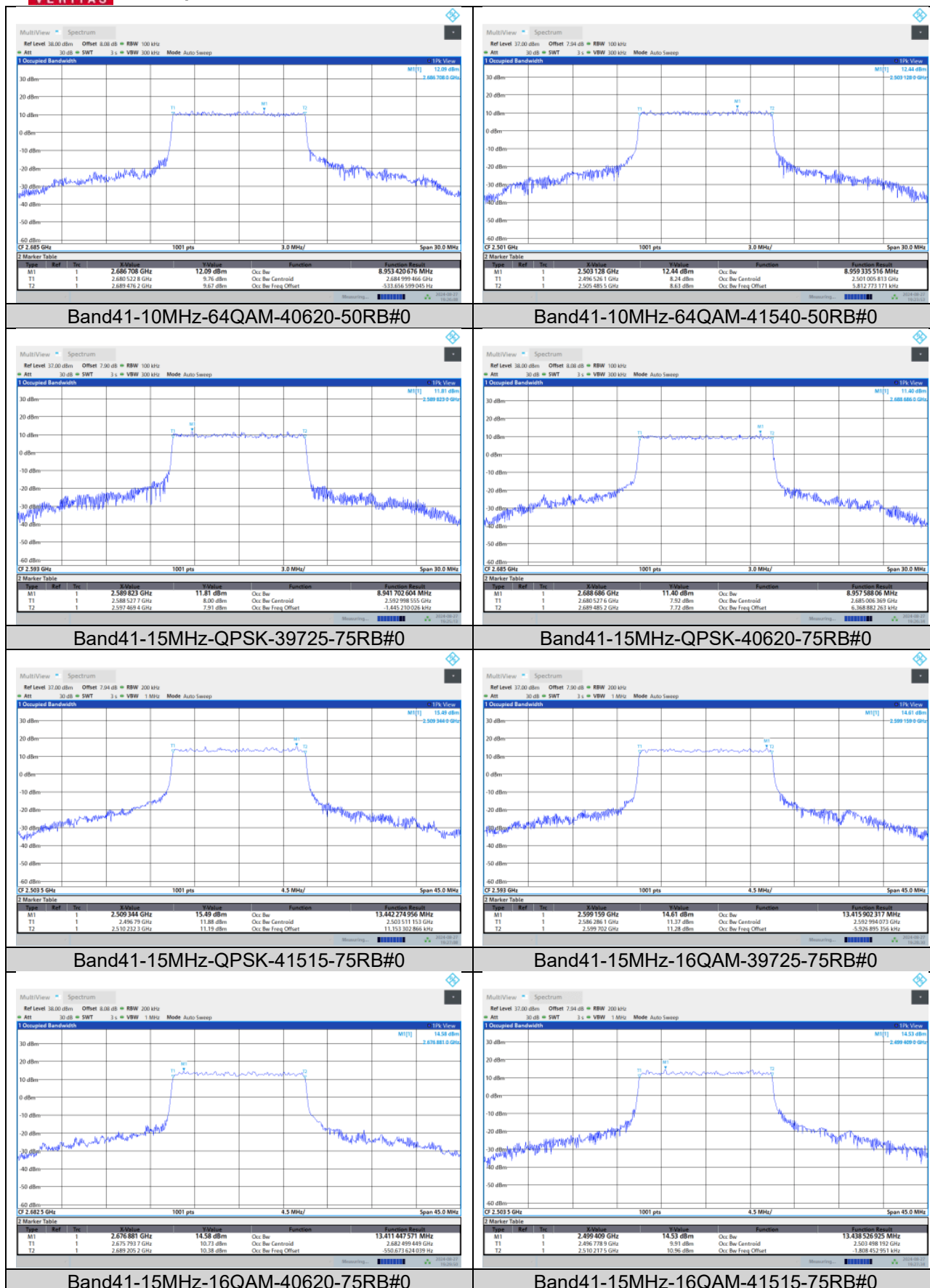
Tel: +86 755 8869 6566
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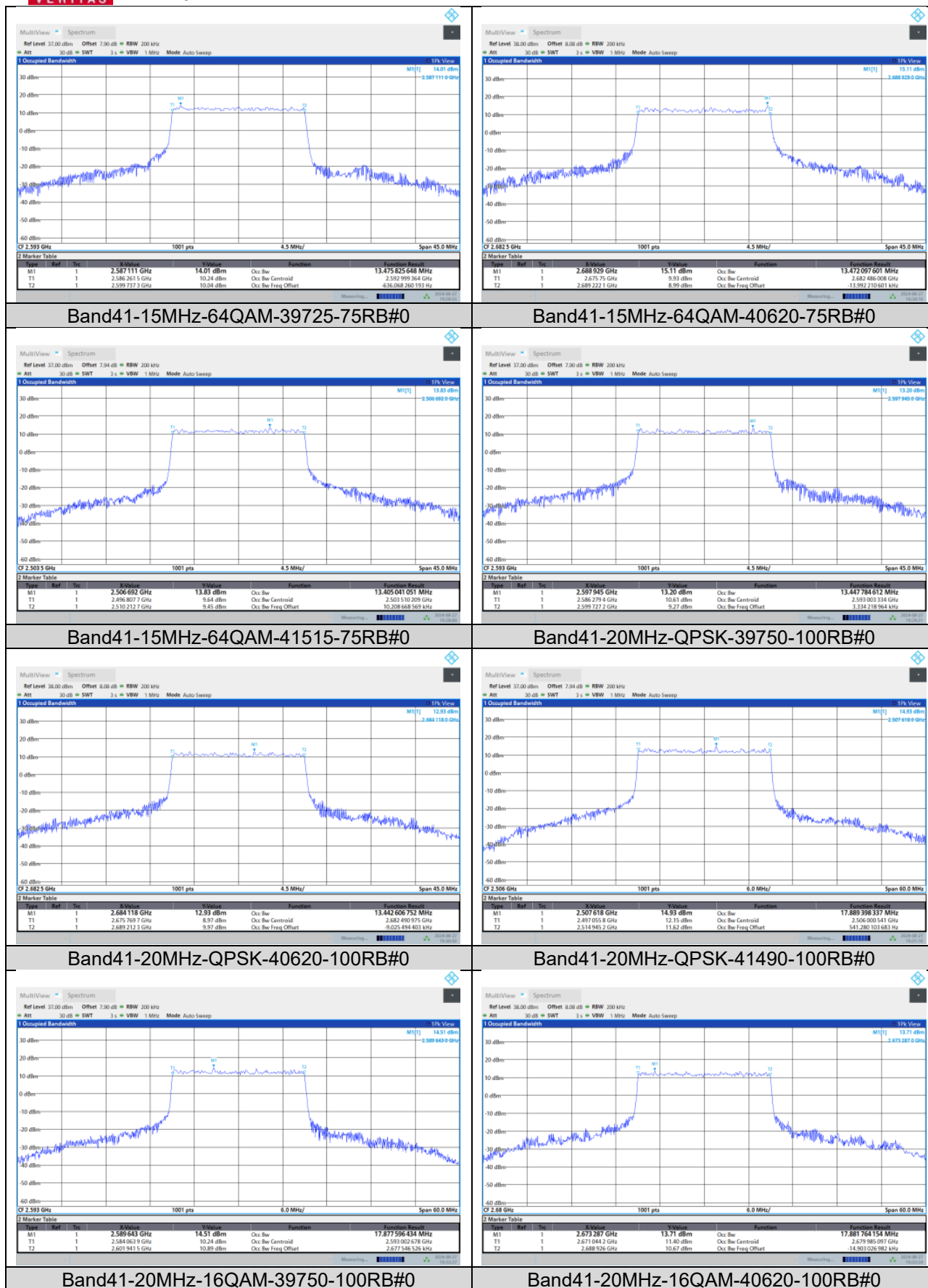
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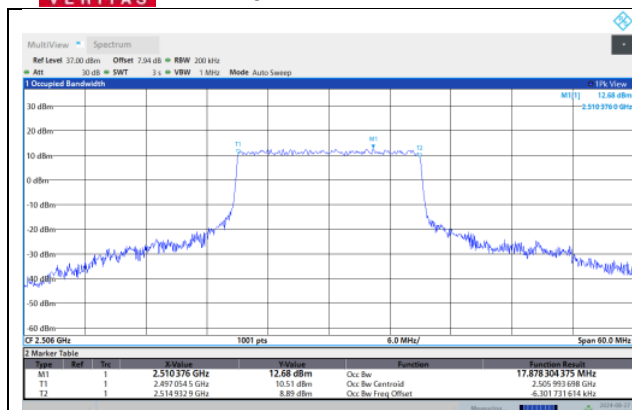
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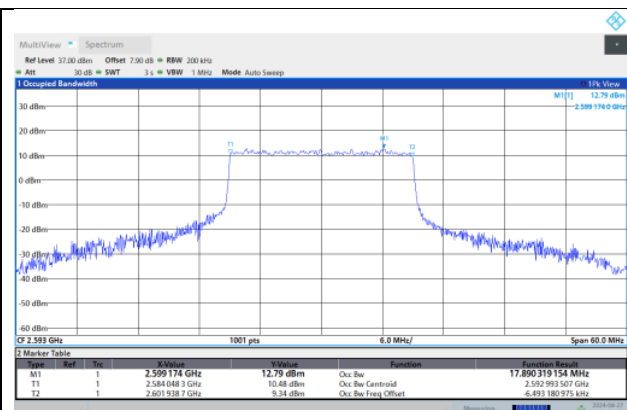


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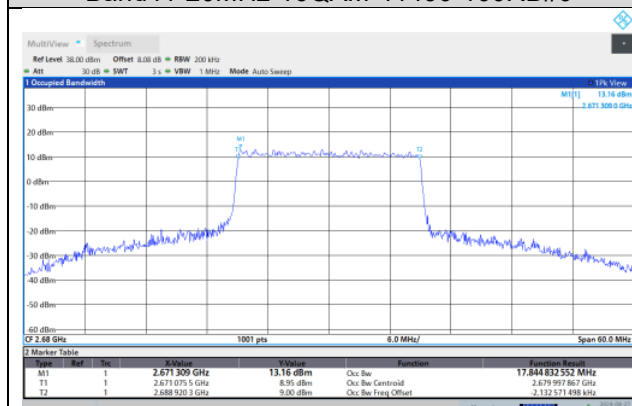
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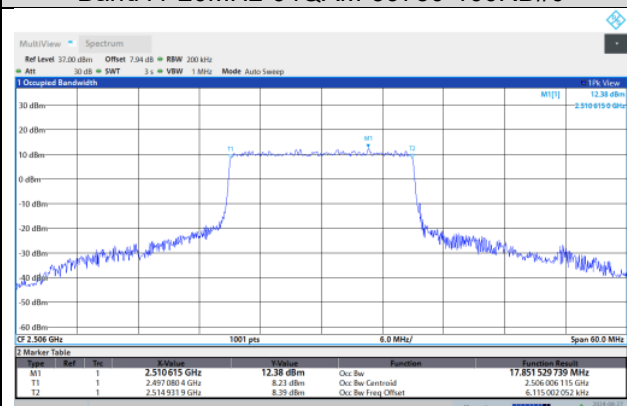
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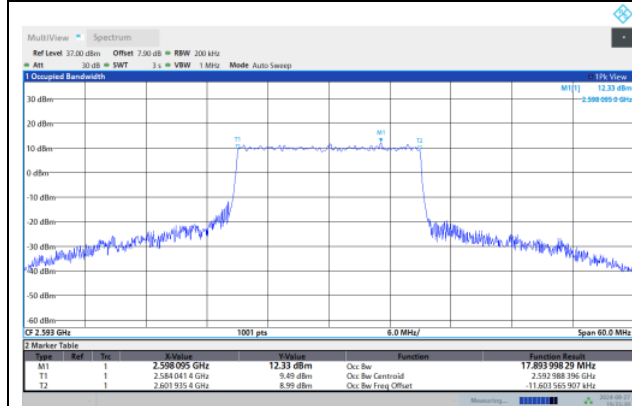
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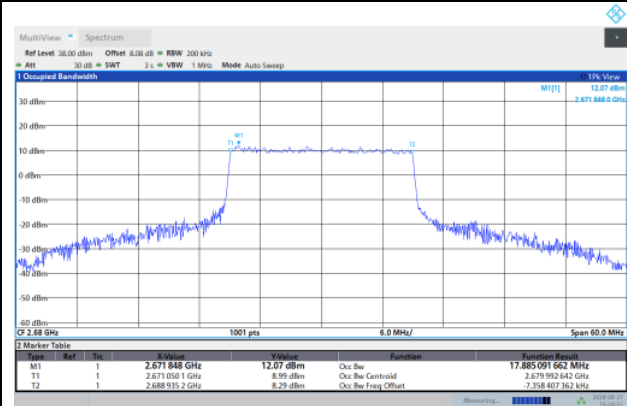
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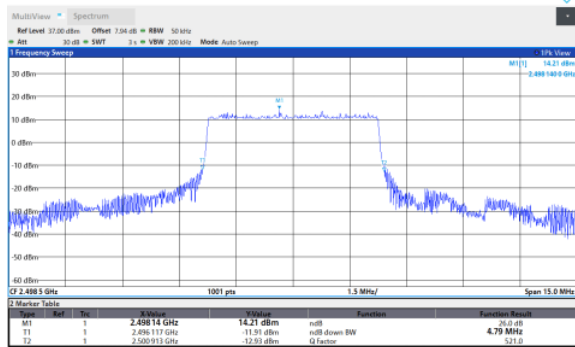
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26dB Bandwidth

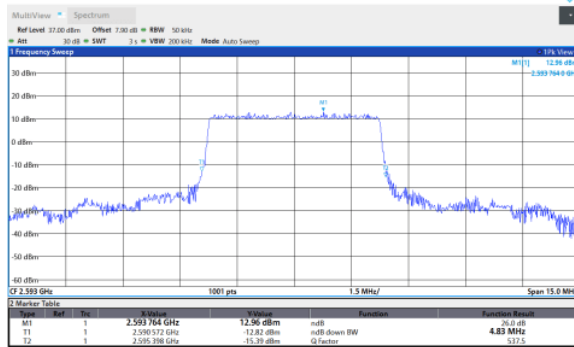


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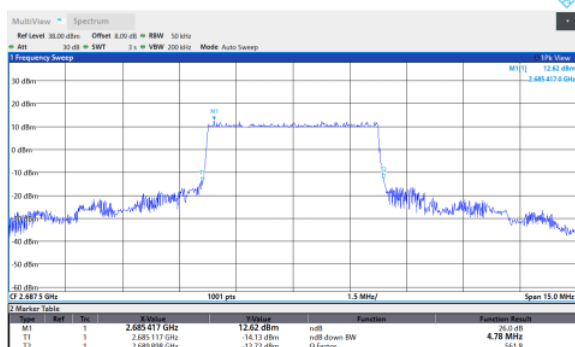
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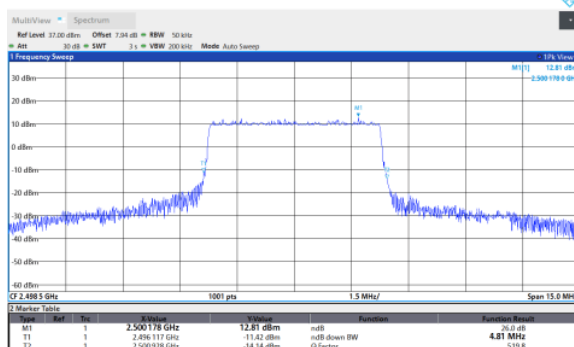
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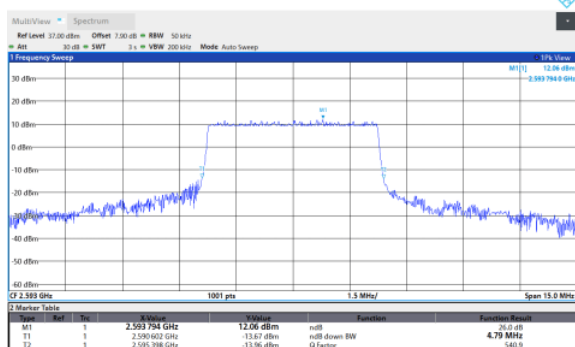
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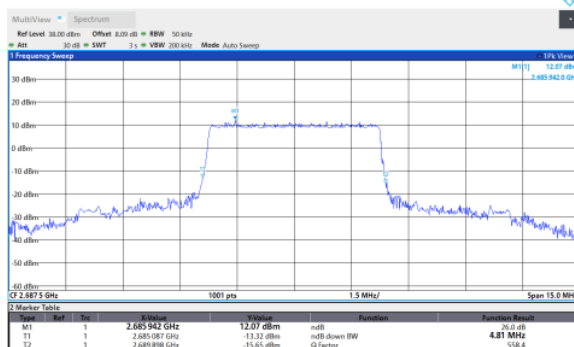
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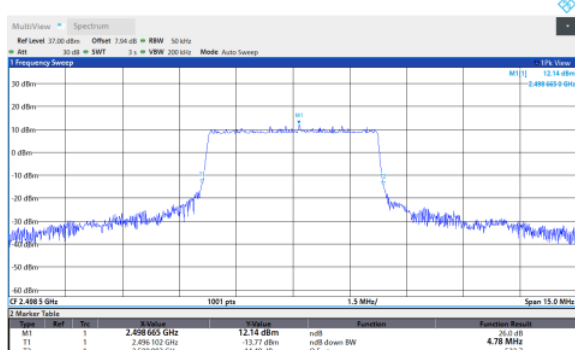
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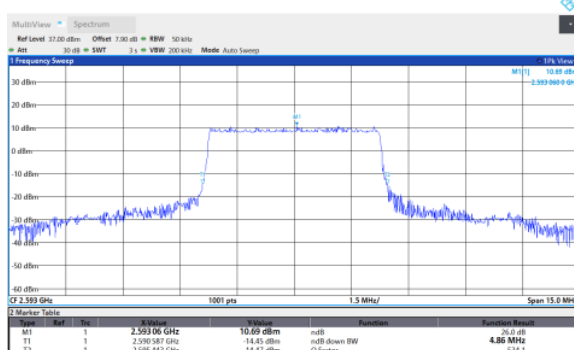
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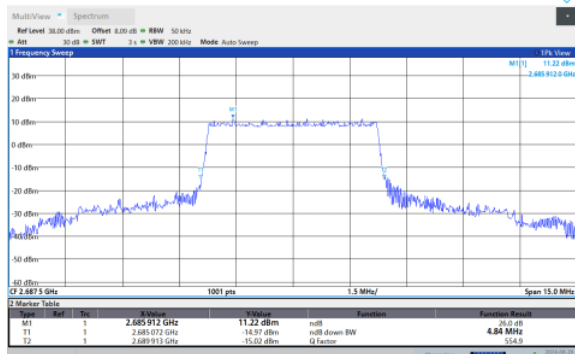
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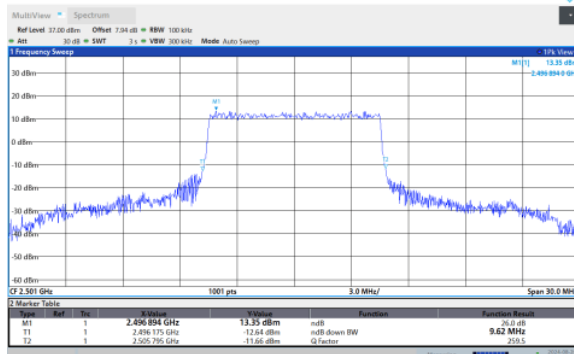
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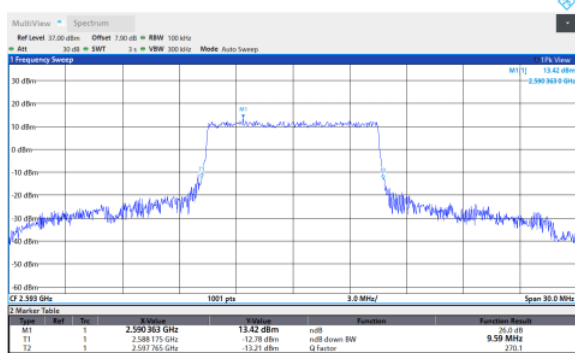
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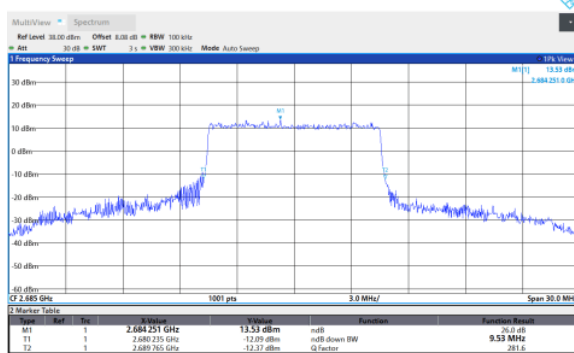
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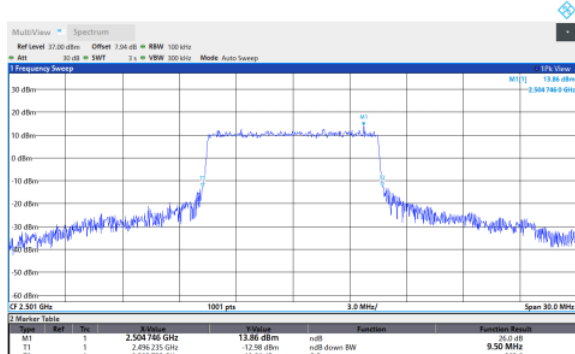
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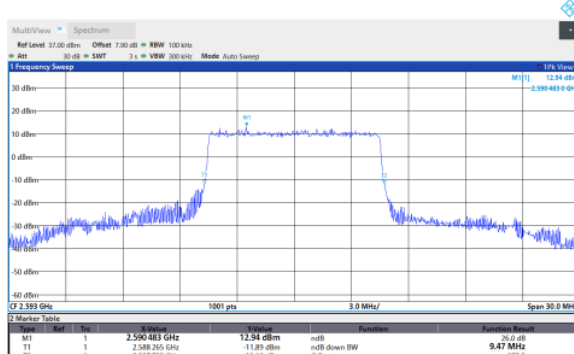
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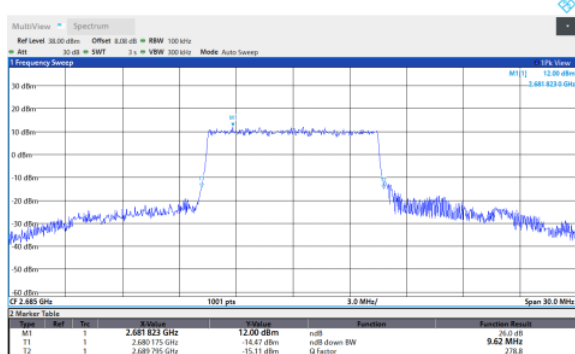
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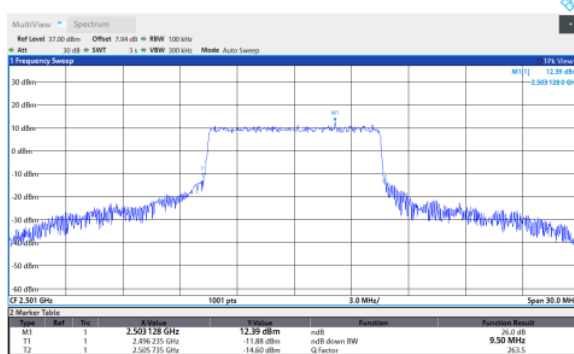
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Band41-10MHz-64QAM-39700-50RB#0



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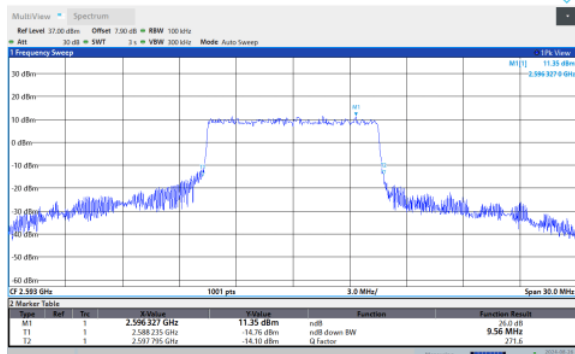


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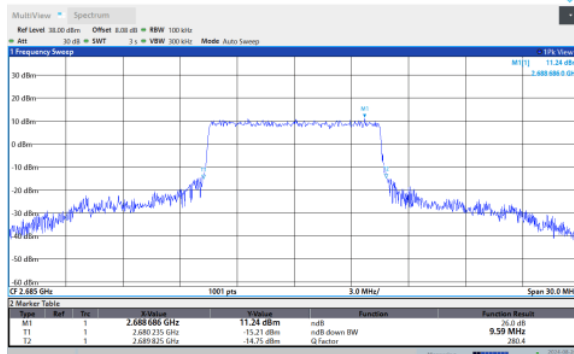


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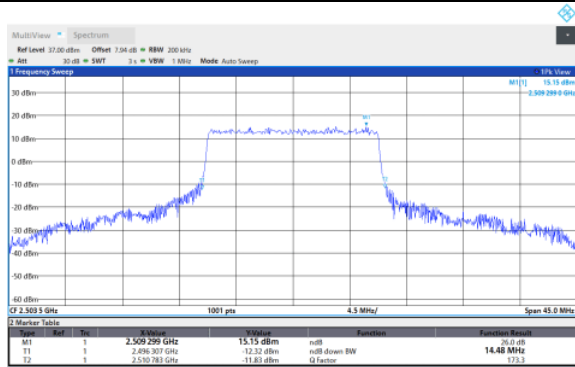
Test Report No.: PSU-NQN2407300216RF04



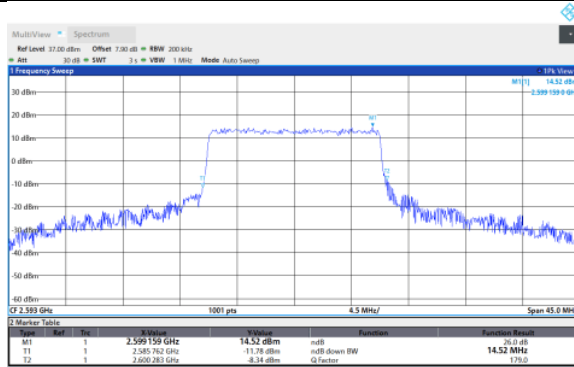
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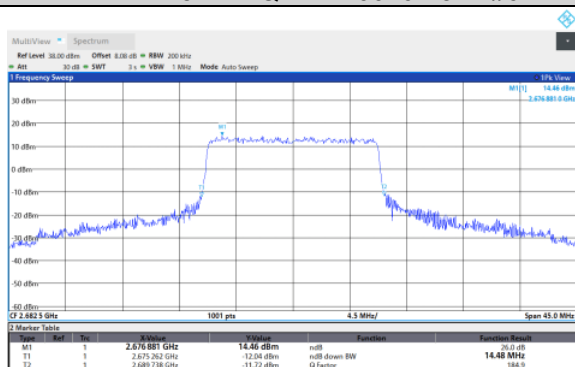
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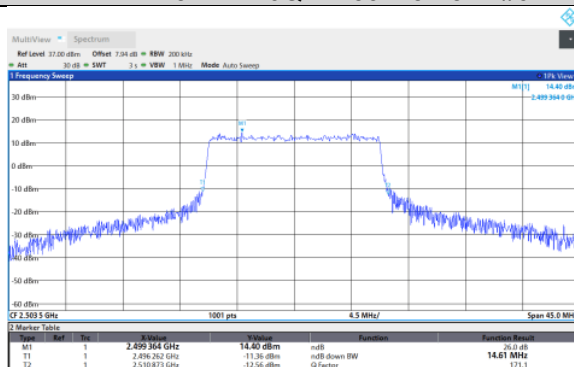
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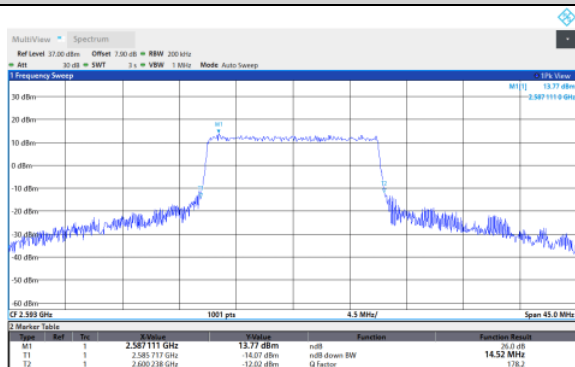
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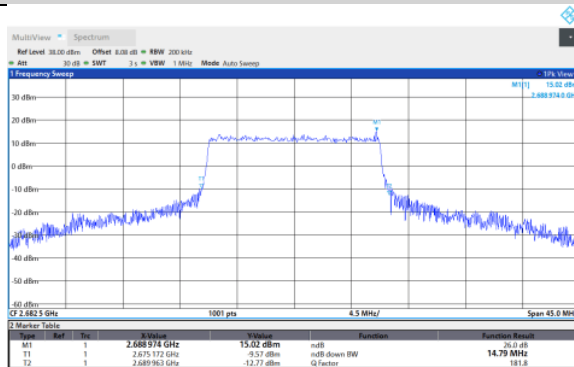
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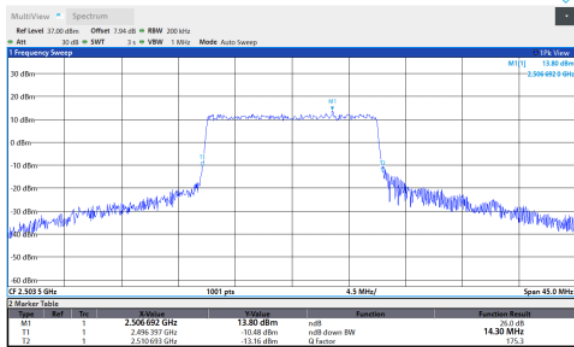
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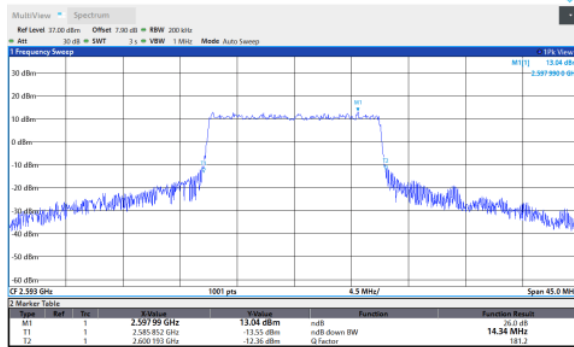
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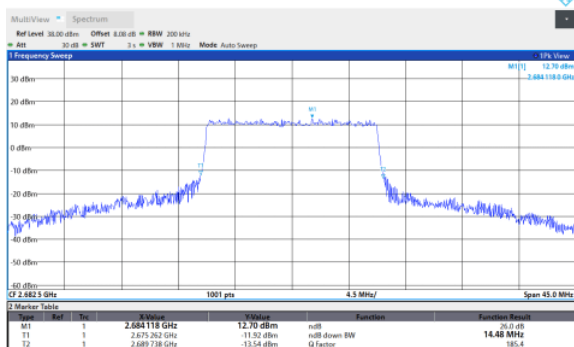
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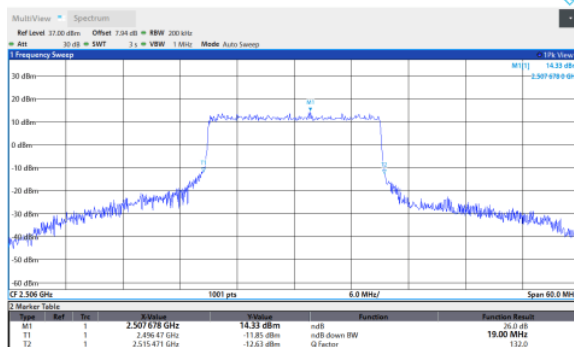
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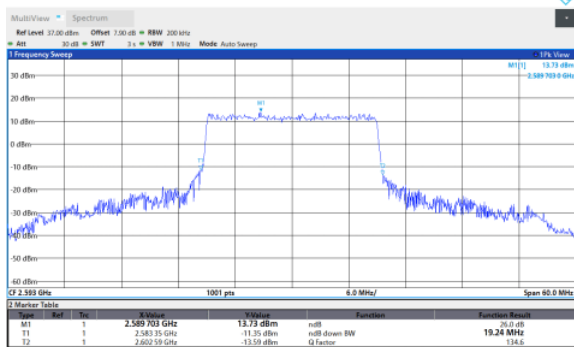
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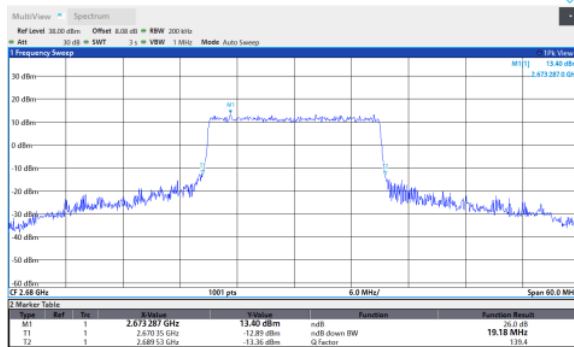
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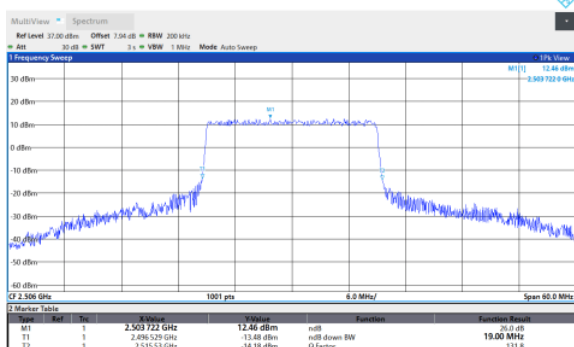
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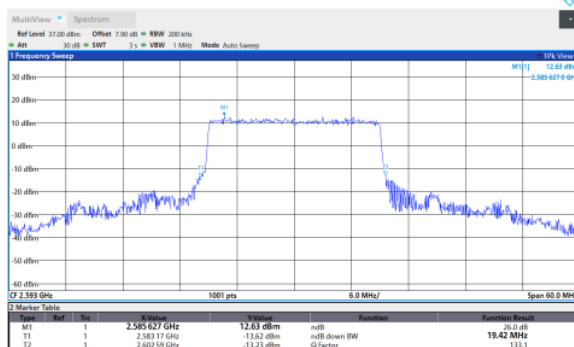
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Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-100RB#0

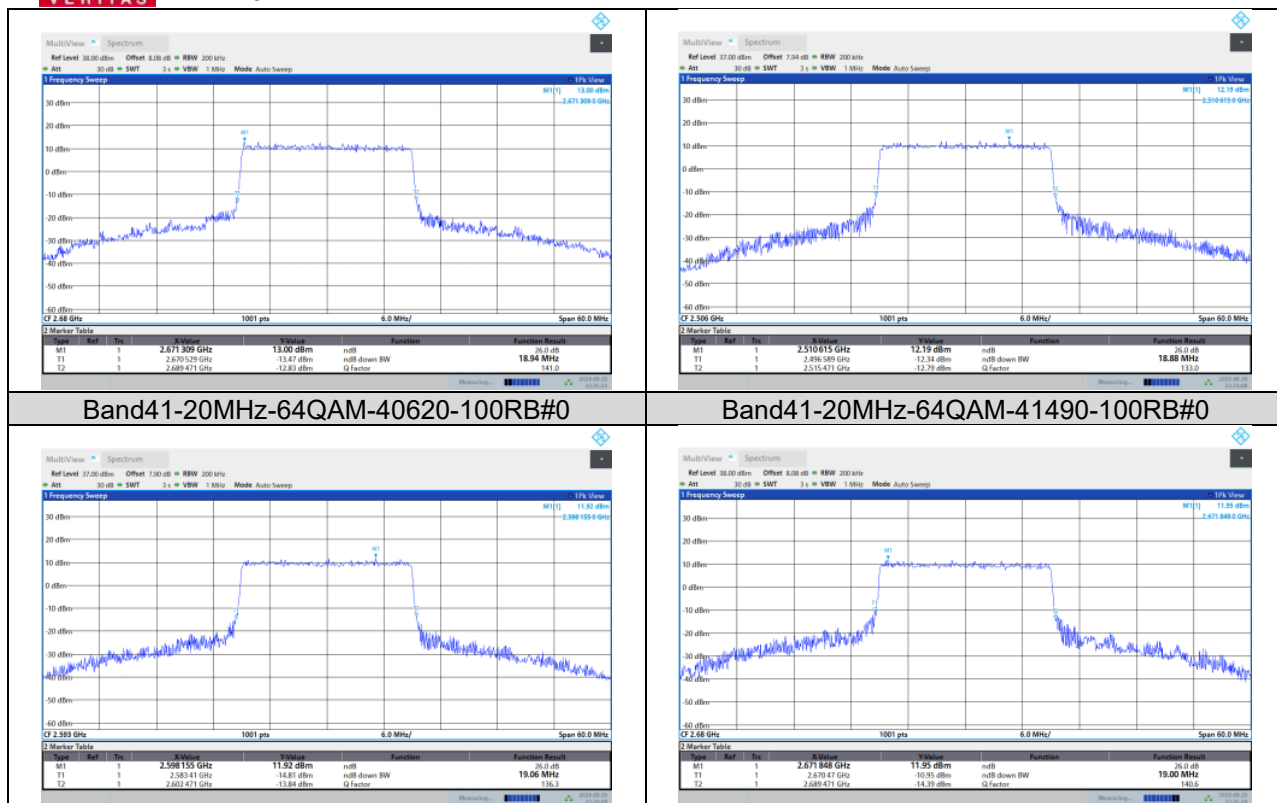


Band41-20MHz-64QAM-39750-100RB#0



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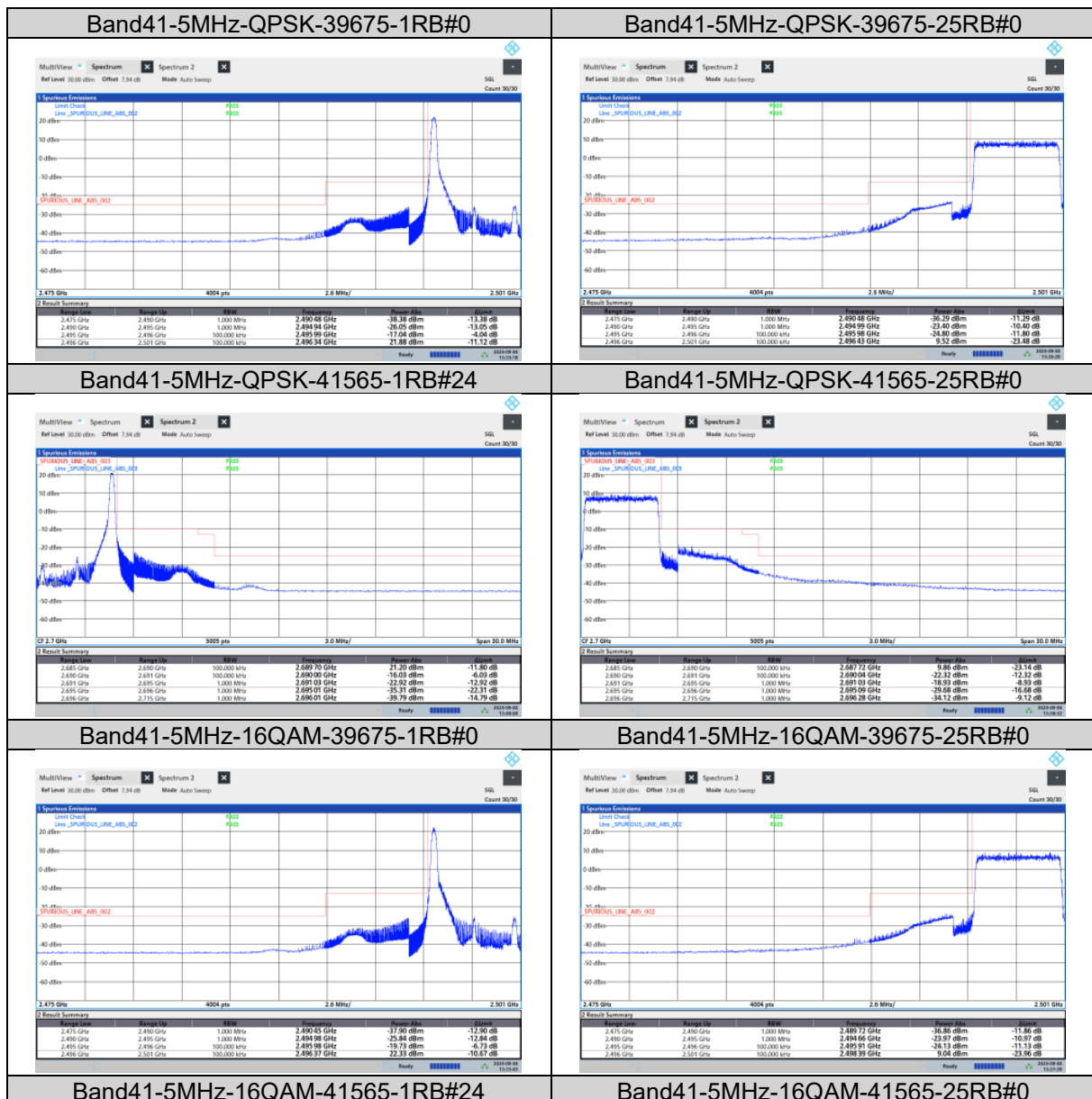
BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	See Graph	PASS
Band41	5MHz	QPSK	39675	25RB#0	See Graph	PASS
Band41	5MHz	QPSK	41565	1RB#24	See Graph	PASS
Band41	5MHz	QPSK	41565	25RB#0	See Graph	PASS
Band41	5MHz	16QAM	39675	1RB#0	See Graph	PASS
Band41	5MHz	16QAM	39675	25RB#0	See Graph	PASS
Band41	5MHz	16QAM	41565	1RB#24	See Graph	PASS
Band41	5MHz	16QAM	41565	25RB#0	See Graph	PASS
Band41	5MHz	64QAM	39675	1RB#0	See Graph	PASS
Band41	5MHz	64QAM	39675	25RB#0	See Graph	PASS
Band41	5MHz	64QAM	41565	1RB#24	See Graph	PASS
Band41	5MHz	64QAM	41565	25RB#0	See Graph	PASS
Band41	10MHz	QPSK	39700	1RB#0	See Graph	PASS
Band41	10MHz	QPSK	39700	50RB#0	See Graph	PASS
Band41	10MHz	QPSK	41540	1RB#49	See Graph	PASS
Band41	10MHz	QPSK	41540	50RB#0	See Graph	PASS
Band41	10MHz	16QAM	39700	1RB#0	See Graph	PASS
Band41	10MHz	16QAM	39700	50RB#0	See Graph	PASS
Band41	10MHz	16QAM	41540	1RB#49	See Graph	PASS
Band41	10MHz	16QAM	41540	50RB#0	See Graph	PASS
Band41	10MHz	64QAM	39700	1RB#0	See Graph	PASS
Band41	10MHz	64QAM	39700	50RB#0	See Graph	PASS
Band41	10MHz	64QAM	41540	1RB#49	See Graph	PASS
Band41	10MHz	64QAM	41540	50RB#0	See Graph	PASS
Band41	15MHz	QPSK	39725	1RB#0	See Graph	PASS
Band41	15MHz	QPSK	39725	75RB#0	See Graph	PASS
Band41	15MHz	QPSK	41515	1RB#74	See Graph	PASS
Band41	15MHz	QPSK	41515	75RB#0	See Graph	PASS
Band41	15MHz	16QAM	39725	1RB#0	See Graph	PASS
Band41	15MHz	16QAM	39725	75RB#0	See Graph	PASS
Band41	15MHz	16QAM	41515	1RB#74	See Graph	PASS
Band41	15MHz	16QAM	41515	75RB#0	See Graph	PASS
Band41	15MHz	64QAM	39725	1RB#0	See Graph	PASS
Band41	15MHz	64QAM	39725	75RB#0	See Graph	PASS
Band41	15MHz	64QAM	41515	1RB#74	See Graph	PASS
Band41	15MHz	64QAM	41515	75RB#0	See Graph	PASS
Band41	20MHz	QPSK	39750	1RB#0	See Graph	PASS
Band41	20MHz	QPSK	39750	100RB#0	See Graph	PASS
Band41	20MHz	QPSK	41490	1RB#99	See Graph	PASS
Band41	20MHz	QPSK	41490	100RB#0	See Graph	PASS
Band41	20MHz	16QAM	39750	1RB#0	See Graph	PASS
Band41	20MHz	16QAM	39750	100RB#0	See Graph	PASS
Band41	20MHz	16QAM	41490	1RB#99	See Graph	PASS
Band41	20MHz	16QAM	41490	100RB#0	See Graph	PASS
Band41	20MHz	64QAM	39750	1RB#0	See Graph	PASS
Band41	20MHz	64QAM	39750	100RB#0	See Graph	PASS
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Band41	20MHz	64QAM	41490	100RB#0	See Graph	PASS



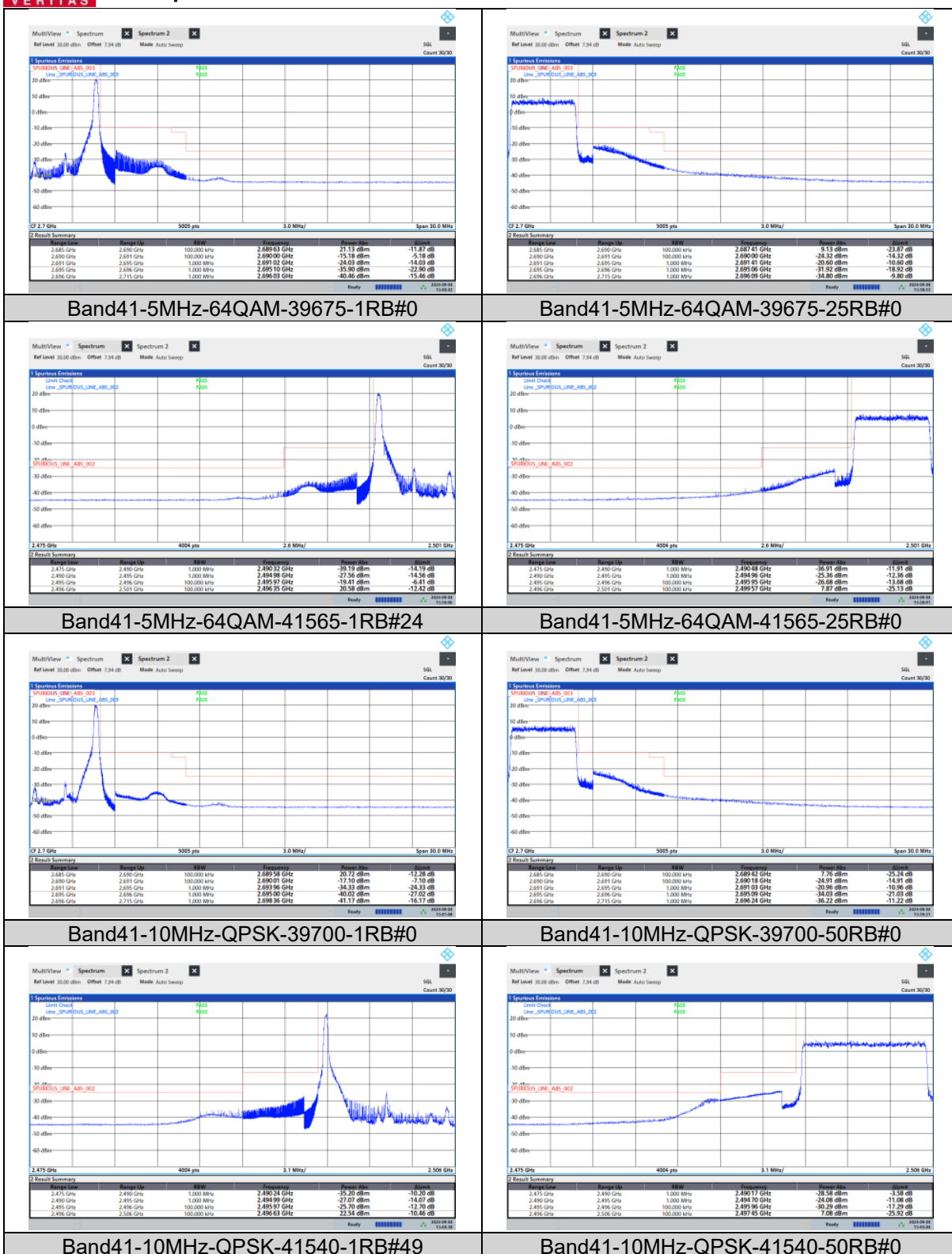
Test Graphs

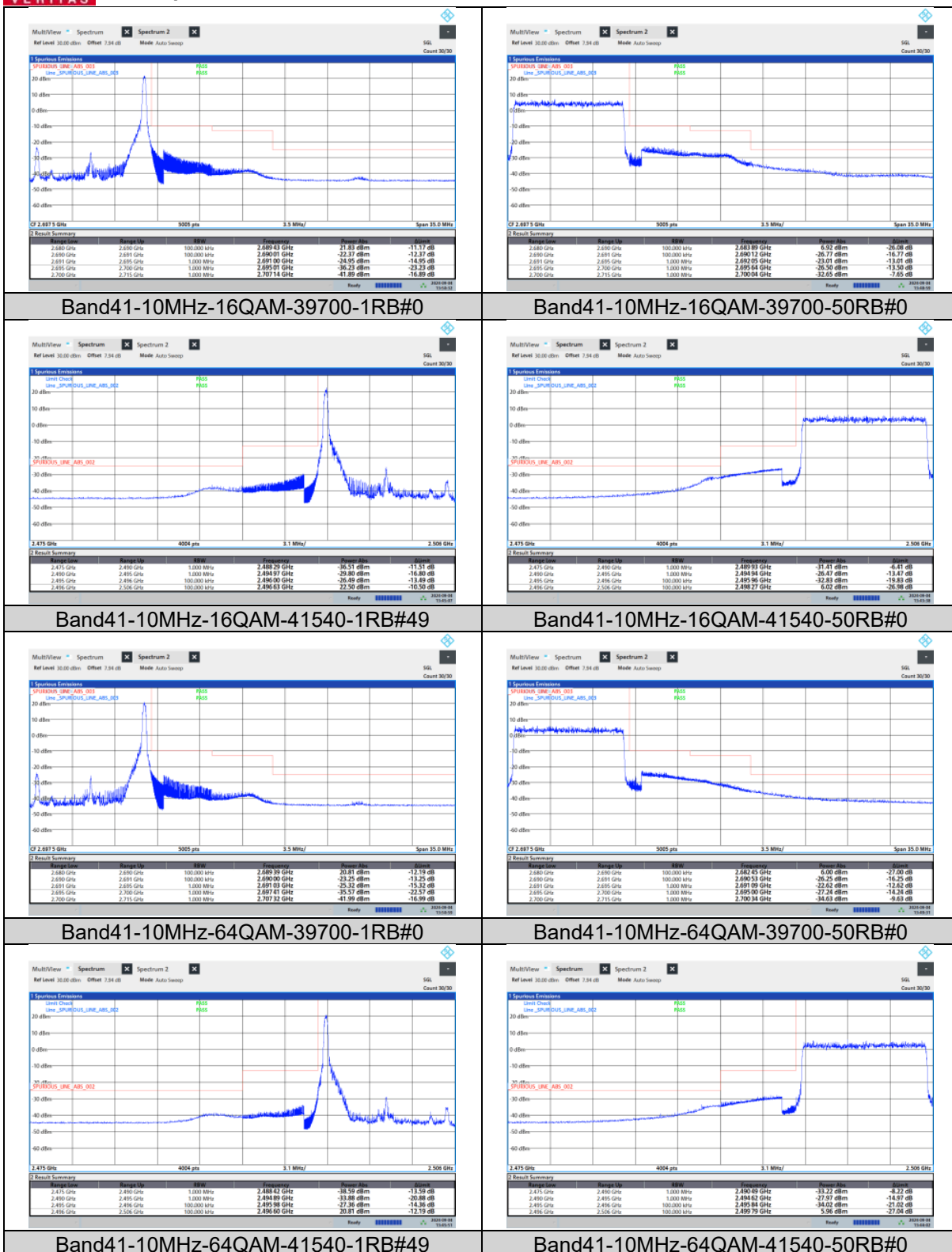




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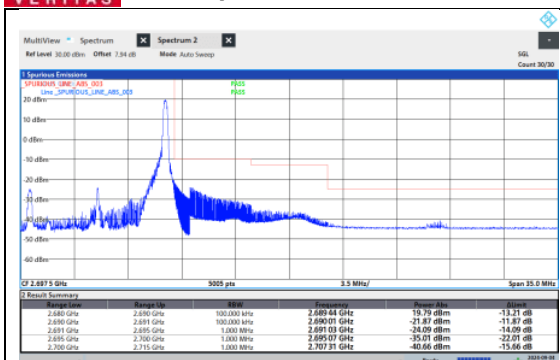






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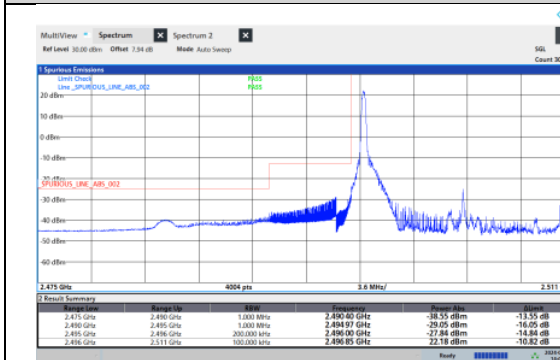
Test Report No.: PSU-NQN2407300216RF04



Band41-15MHz-QPSK-39725-1RB#0



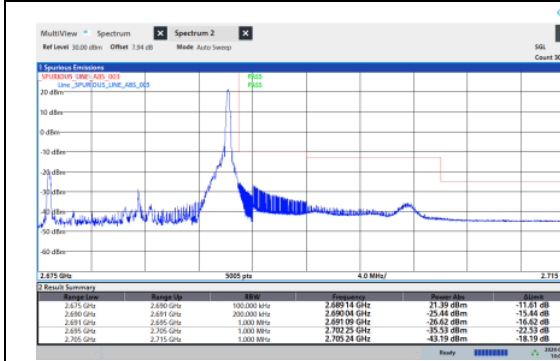
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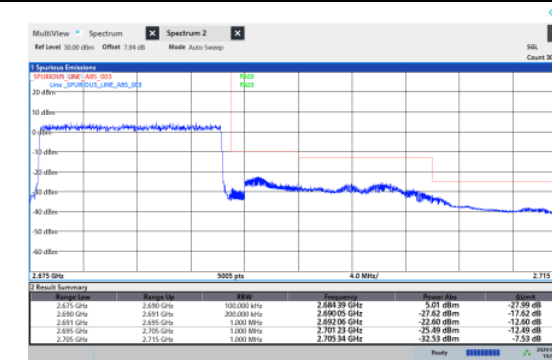
Band41-15MHz-QPSK-41515-1RB#74



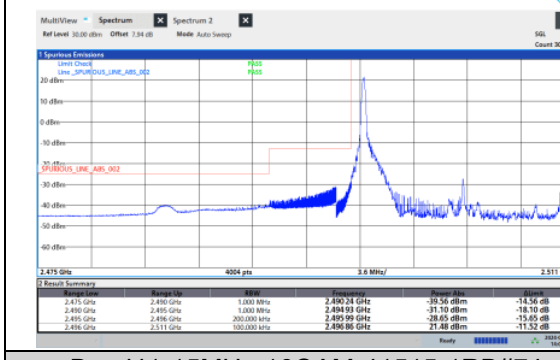
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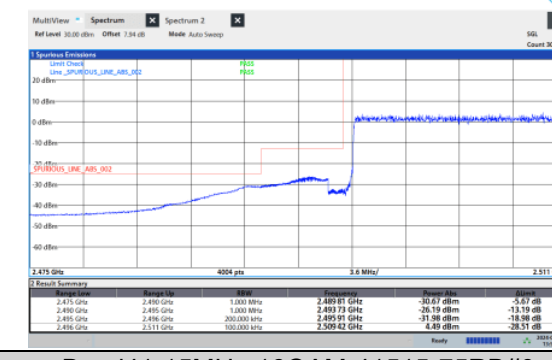
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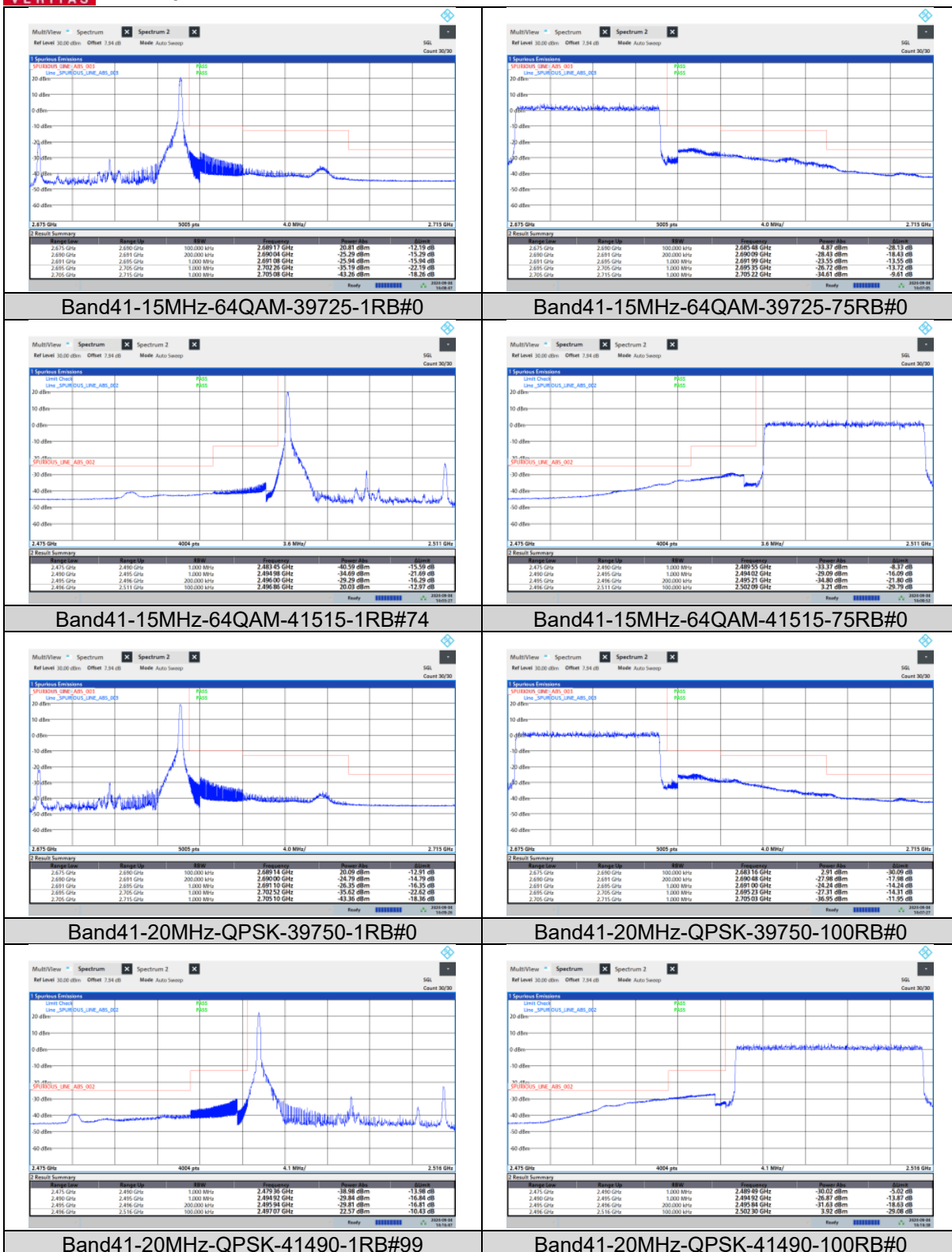
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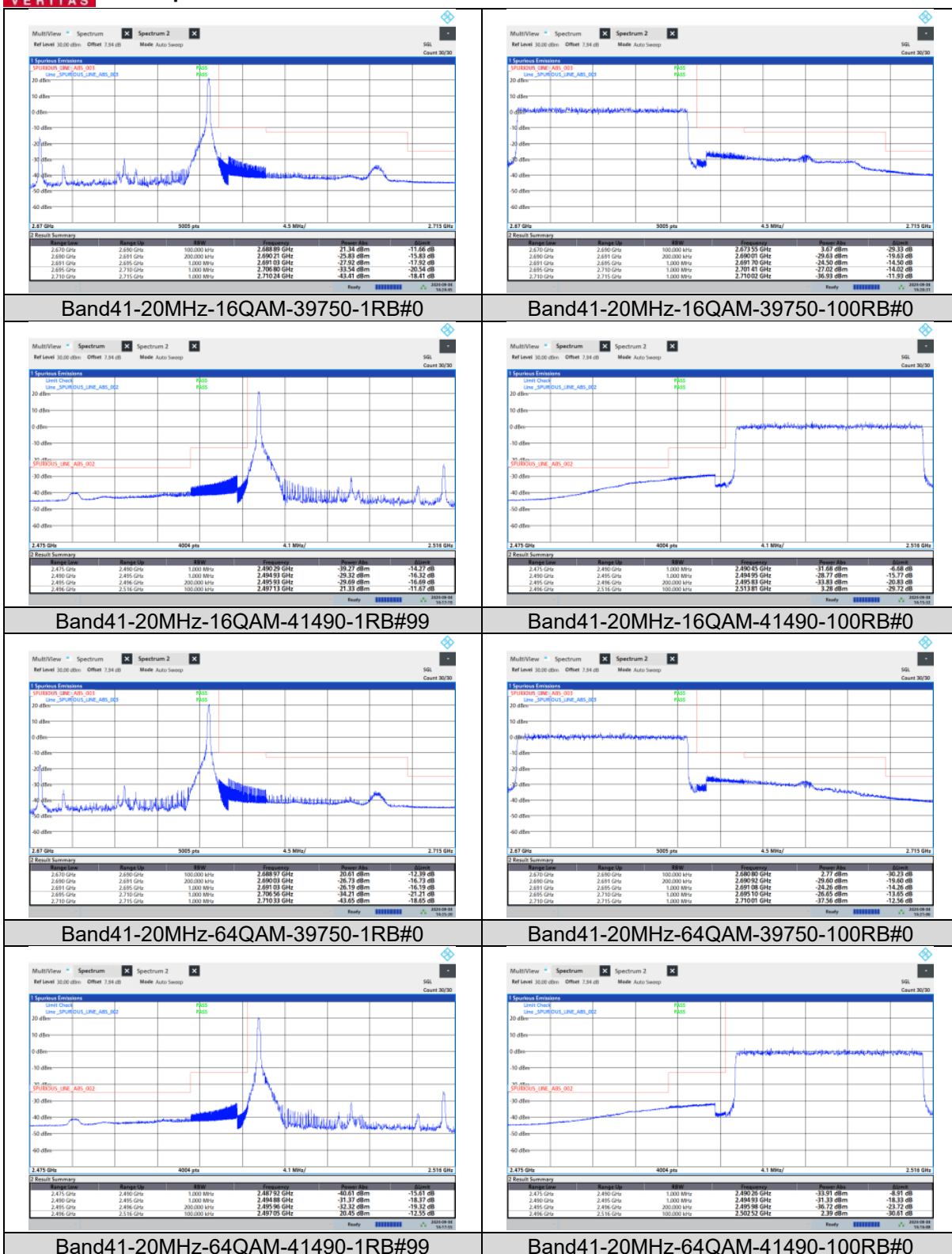


Band41-15MHz-16QAM-41515-1RB#74



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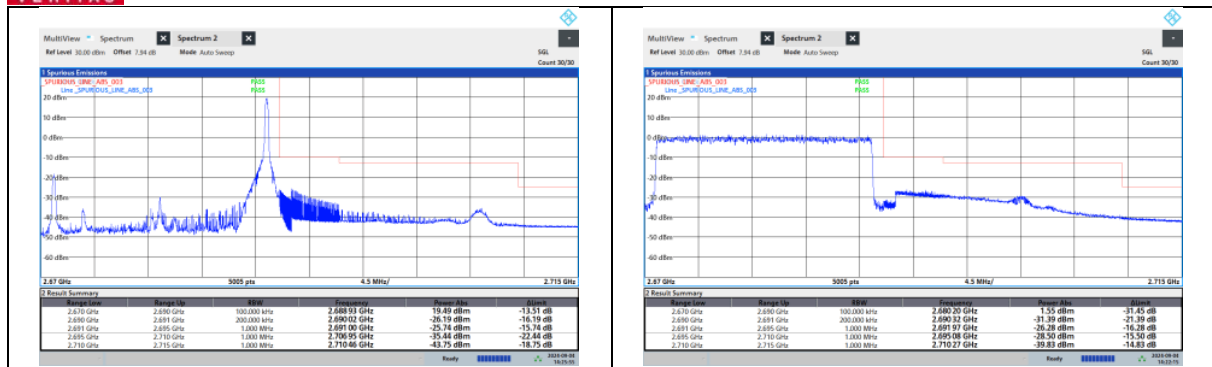






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Test Report No.: PSU-NQN2407300216RF04



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BUREAU VERITAS Test Report No.: PSU-NQN2407300216RF04
CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	5MHz	QPSK	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	5MHz	QPSK	41565	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	5MHz	16QAM	39675	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	5MHz	16QAM	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	5MHz	16QAM	41565	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	5MHz	64QAM	39675	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	5MHz	64QAM	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	5MHz	64QAM	41565	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	QPSK	39700	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	QPSK	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	QPSK	41540	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	16QAM	39700	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	16QAM	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	16QAM	41540	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	64QAM	39700	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	64QAM	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	10MHz	64QAM	41540	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	QPSK	39725	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	QPSK	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	QPSK	41515	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	16QAM	39725	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	16QAM	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	16QAM	41515	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	64QAM	39725	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	64QAM	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	15MHz	64QAM	41515	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	QPSK	39750	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	QPSK	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	QPSK	41490	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	16QAM	39750	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	16QAM	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	16QAM	41490	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	64QAM	39750	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	64QAM	40620	1RB#0	Range:30~26900MHz	See Graph	PASS
Band41	20MHz	64QAM	41490	1RB#0	Range:30~26900MHz	See Graph	PASS

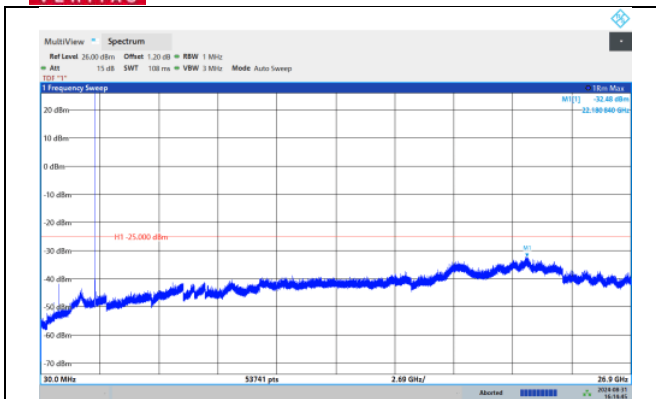
Test Graphs

Band41-5MHz-QPSK-39675-1RB#0- Range:30~26900MHz	Band41-5MHz-QPSK-40620-1RB#0- Range:30~26900MHz
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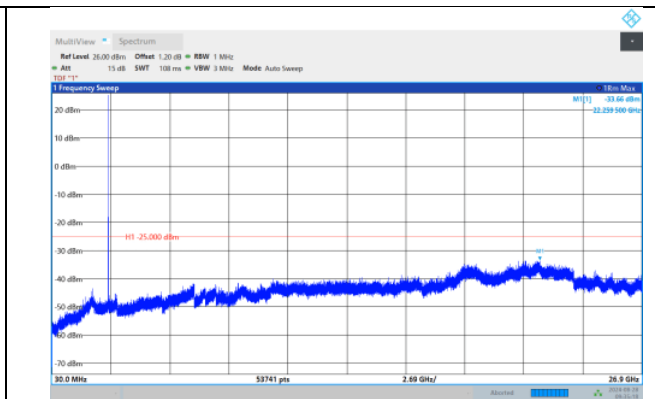


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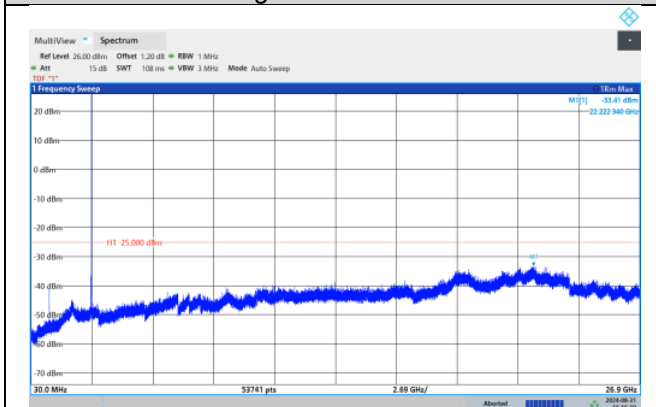
Test Report No.: PSU-NQN2407300216RF04



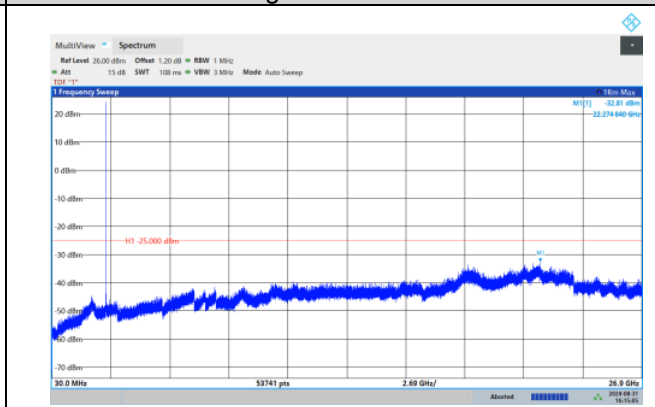
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Range:30~26900MHz**



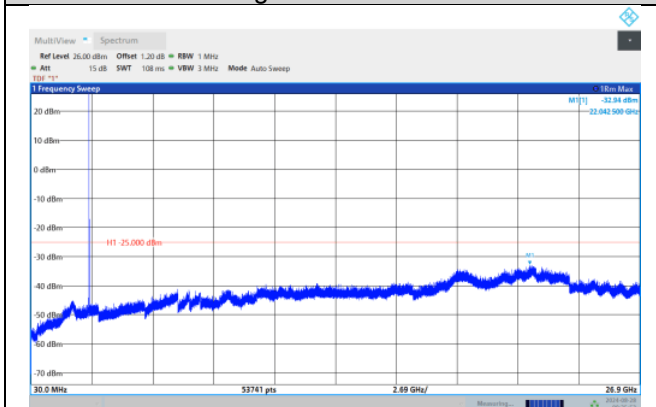
**Band41-5MHz-16QAM-39675-1RB#0-
Range:30~26900MHz**



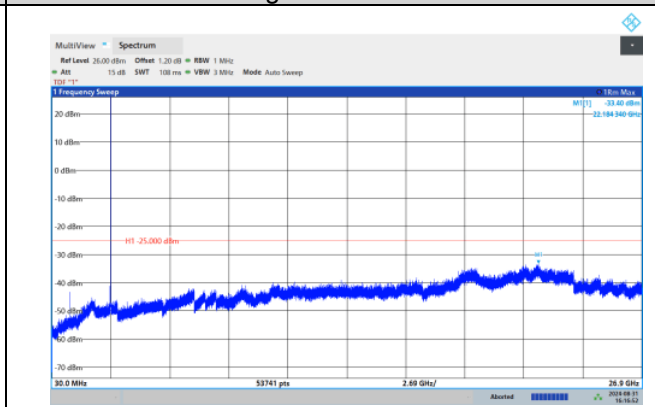
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Range:30~26900MHz**



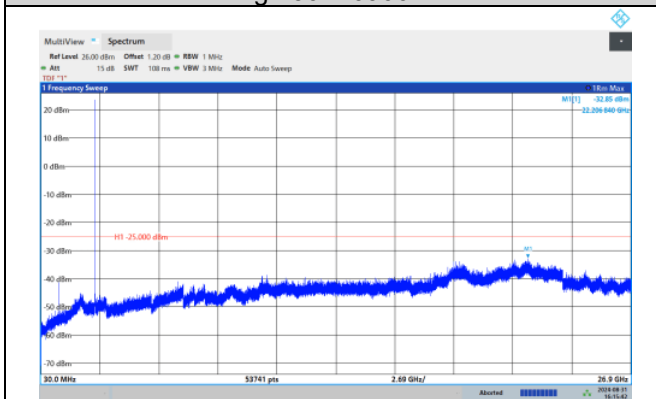
**Band41-5MHz-16QAM-41565-1RB#0-
Range:30~26900MHz**



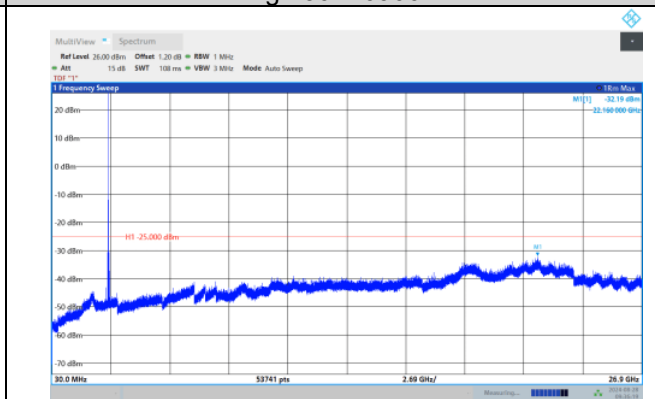
**Band41-5MHz-64QAM-39675-1RB#0-
Range:30~26900MHz**



**Band41-5MHz-64QAM-40620-1RB#0-
Range:30~26900MHz**



Band41-5MHz-64QAM-41565-1RB#0-



Band41-10MHz-QPSK-39700-1RB#0-

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