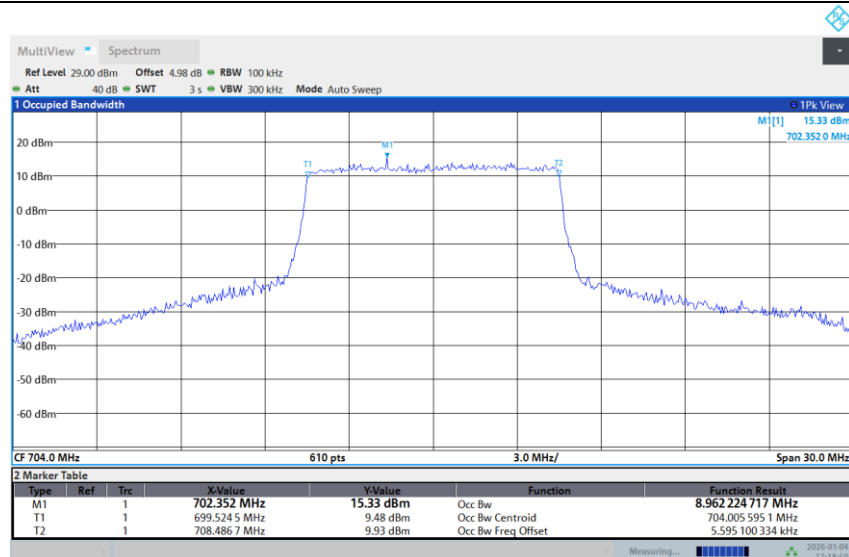
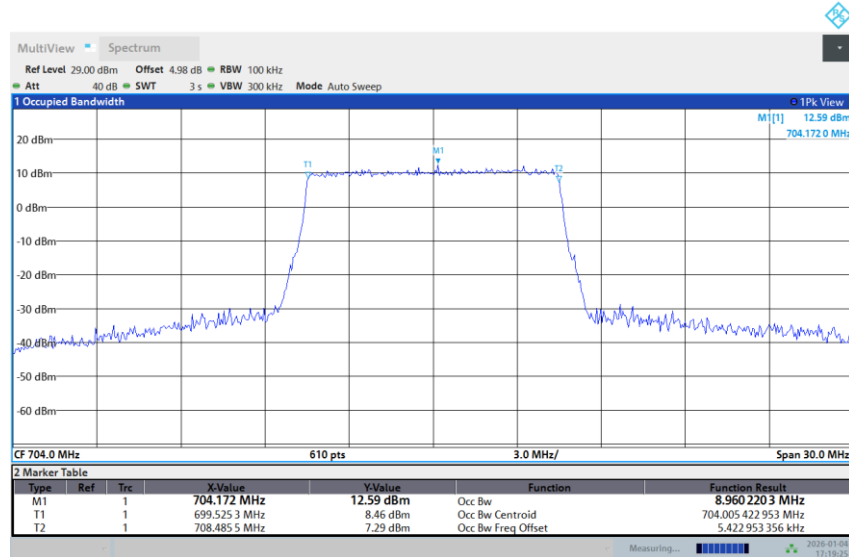
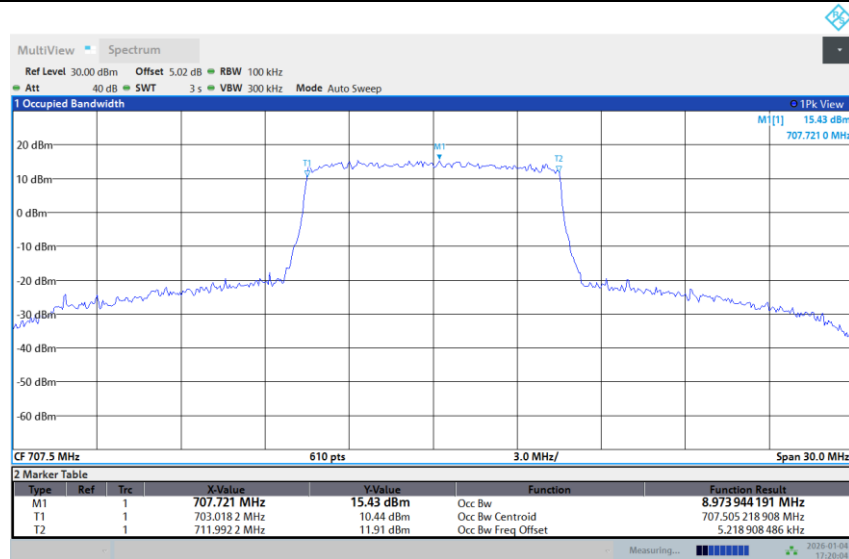




Band 12-10M-LOW-256QAM-Full RB



Band 12-10M-MID-QPSK-Full RB

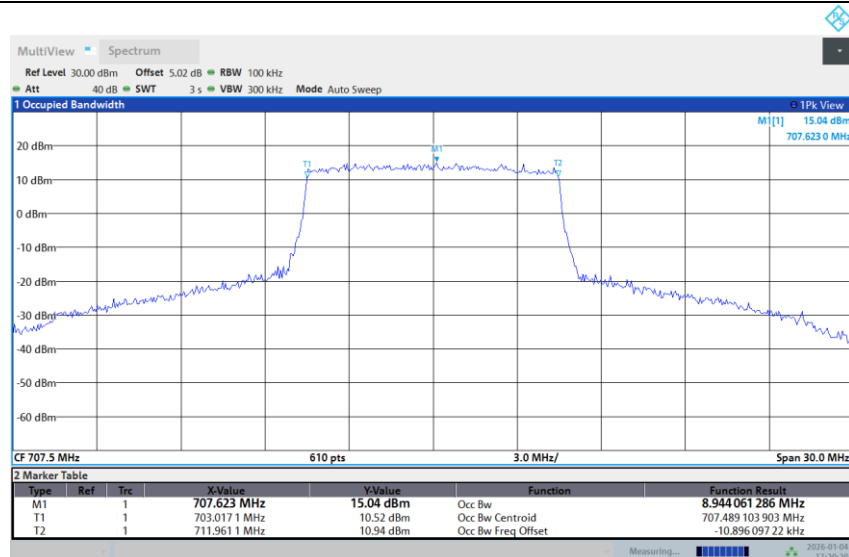


Band 12-10M-MID-16QAM-Full RB

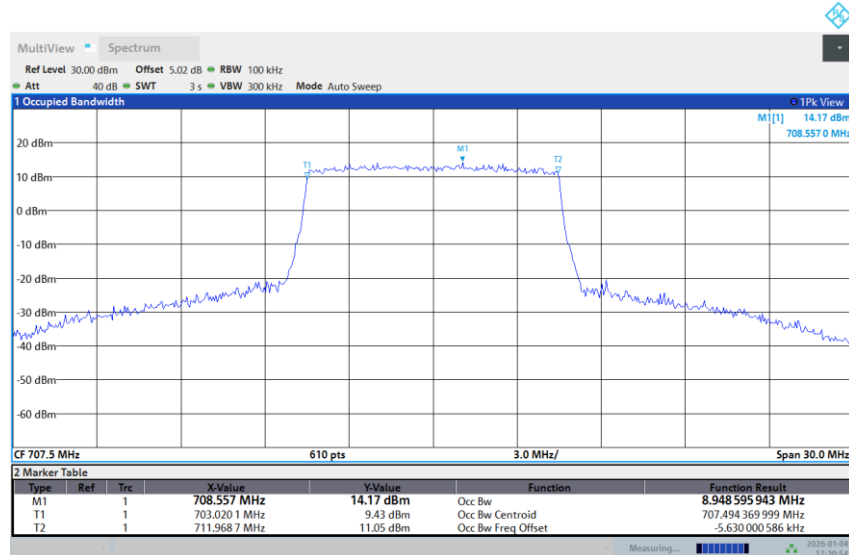
BOOMWAVE TEST (SHENZHEN)
CO., LTD.

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4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

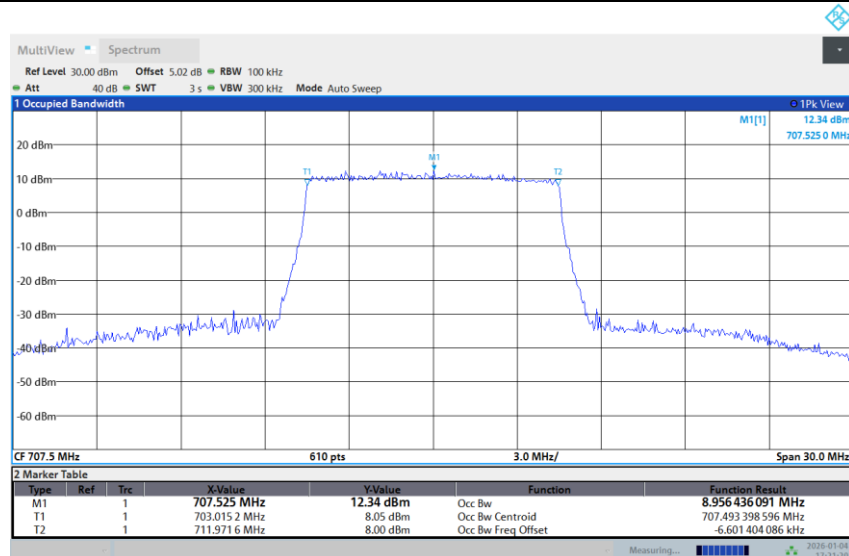
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Band 12-10M-MID-64QAM-Full RB



Band 12-10M-MID-256QAM-Full RB

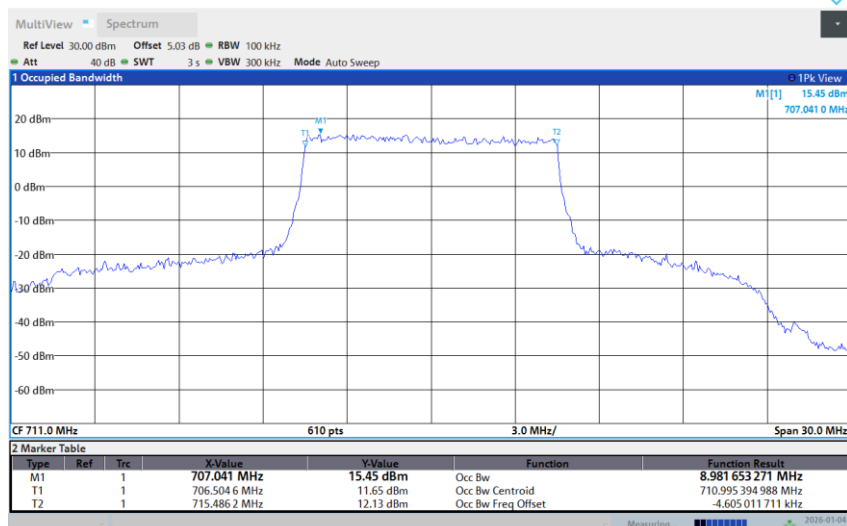


Band 12-10M-HIGH-QPSK-Full RB

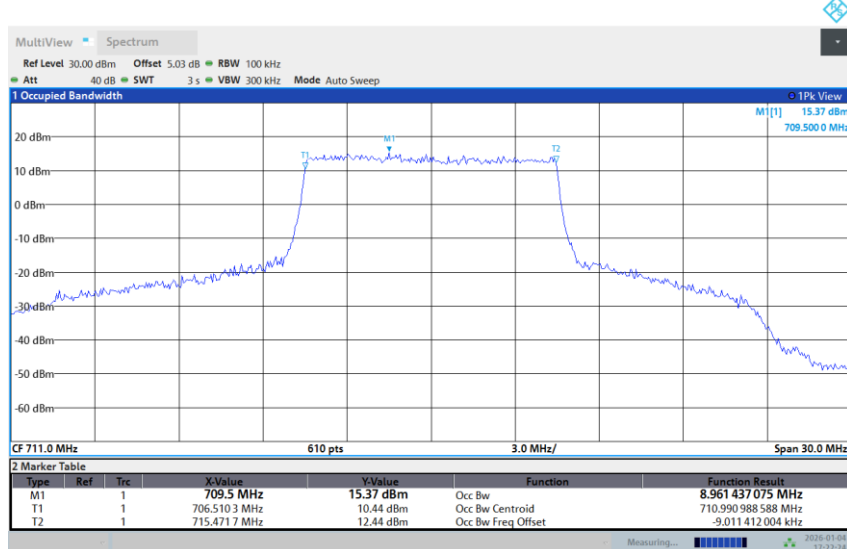
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Nanshan District, Shenzhen, Guangdong, P.R. CHINA

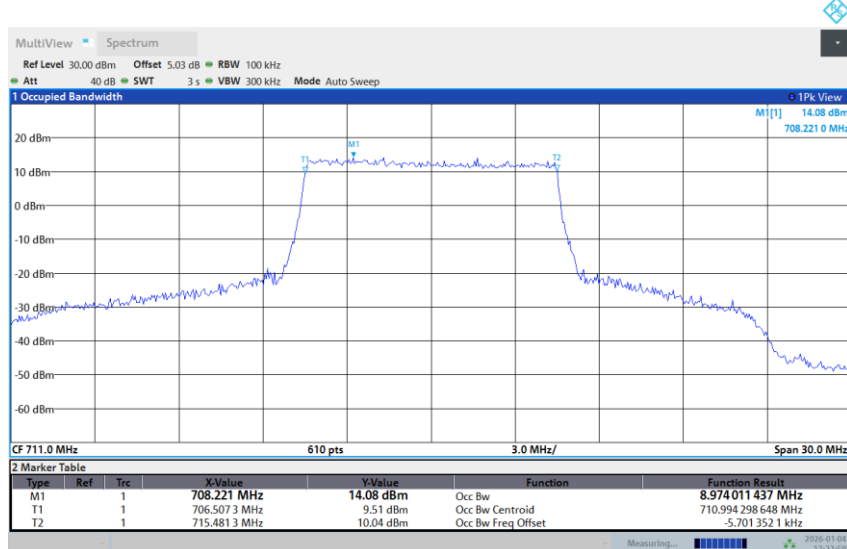
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



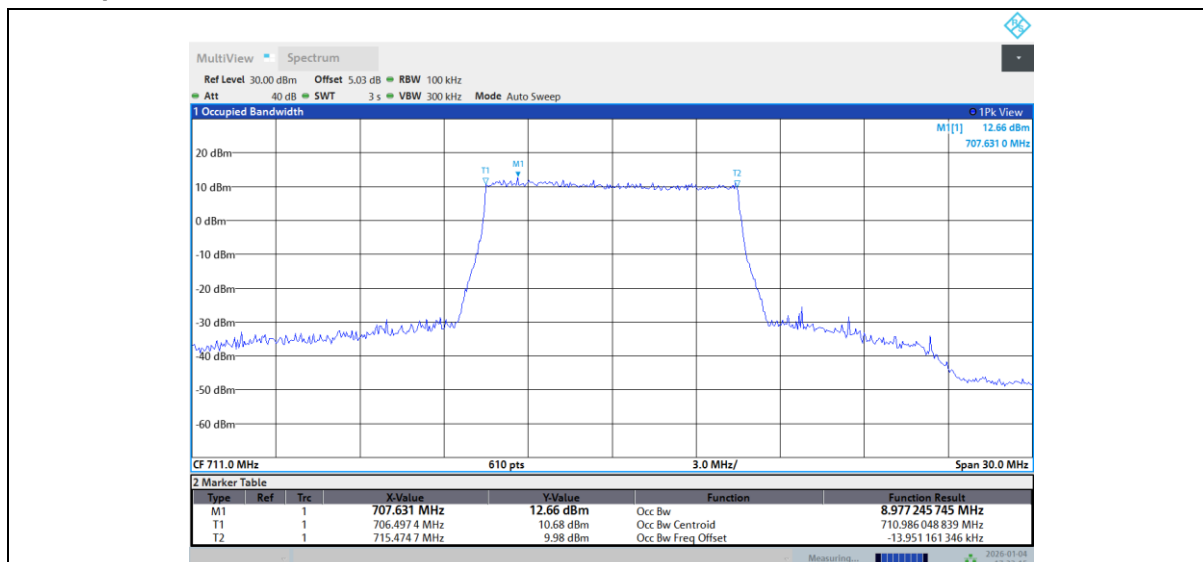
Band 12-10M-HIGH-16QAM-Full RB



Band 12-10M-HIGH-64QAM-Full RB



Band 12-10M-HIGH-256QAM-Full RB



Test Report No.: RF260714B008

LTE band 12(-26dBc)

Bandwidth	Modulation	Channel	RB Configuration	26dB Bandwidth(MHz)	Verdict
1.4MHz	QPSK	23017	Full RB	1.34	PASS
1.4MHz	16QAM	23017	Full RB	1.35	PASS
1.4MHz	64QAM	23017	Full RB	1.36	PASS
1.4MHz	256QAM	23017	Full RB	1.33	PASS
1.4MHz	QPSK	23095	Full RB	1.38	PASS
1.4MHz	16QAM	23095	Full RB	1.35	PASS
1.4MHz	64QAM	23095	Full RB	1.34	PASS
1.4MHz	256QAM	23095	Full RB	1.35	PASS
1.4MHz	QPSK	23173	Full RB	1.37	PASS
1.4MHz	16QAM	23173	Full RB	1.39	PASS
1.4MHz	64QAM	23173	Full RB	1.35	PASS
1.4MHz	256QAM	23173	Full RB	1.35	PASS
3MHz	QPSK	23025	Full RB	3.01	PASS
3MHz	16QAM	23025	Full RB	3.06	PASS
3MHz	64QAM	23025	Full RB	3.04	PASS
3MHz	256QAM	23025	Full RB	3.00	PASS
3MHz	QPSK	23095	Full RB	3.00	PASS
3MHz	16QAM	23095	Full RB	3.01	PASS
3MHz	64QAM	23095	Full RB	3.02	PASS
3MHz	256QAM	23095	Full RB	2.99	PASS
3MHz	QPSK	23165	Full RB	3.04	PASS
3MHz	16QAM	23165	Full RB	3.03	PASS
3MHz	64QAM	23165	Full RB	3.01	PASS
3MHz	256QAM	23165	Full RB	3.02	PASS
5MHz	QPSK	23035	Full RB	4.99	PASS
5MHz	16QAM	23035	Full RB	5.08	PASS
5MHz	64QAM	23035	Full RB	4.99	PASS
5MHz	256QAM	23035	Full RB	5.04	PASS
5MHz	QPSK	23095	Full RB	4.97	PASS
5MHz	16QAM	23095	Full RB	5.00	PASS
5MHz	64QAM	23095	Full RB	5.07	PASS
5MHz	256QAM	23095	Full RB	5.02	PASS
5MHz	QPSK	23155	Full RB	5.02	PASS
5MHz	16QAM	23155	Full RB	5.07	PASS
5MHz	64QAM	23155	Full RB	5.04	PASS
5MHz	256QAM	23155	Full RB	5.04	PASS
10MHz	QPSK	23060	Full RB	9.77	PASS
10MHz	16QAM	23060	Full RB	9.74	PASS
10MHz	64QAM	23060	Full RB	9.74	PASS
10MHz	256QAM	23060	Full RB	9.83	PASS
10MHz	QPSK	23095	Full RB	9.65	PASS
10MHz	16QAM	23095	Full RB	9.80	PASS
10MHz	64QAM	23095	Full RB	9.71	PASS
10MHz	256QAM	23095	Full RB	9.80	PASS
10MHz	QPSK	23130	Full RB	9.86	PASS
10MHz	16QAM	23130	Full RB	9.80	PASS
10MHz	64QAM	23130	Full RB	9.86	PASS
10MHz	256QAM	23130	Full RB	9.83	PASS

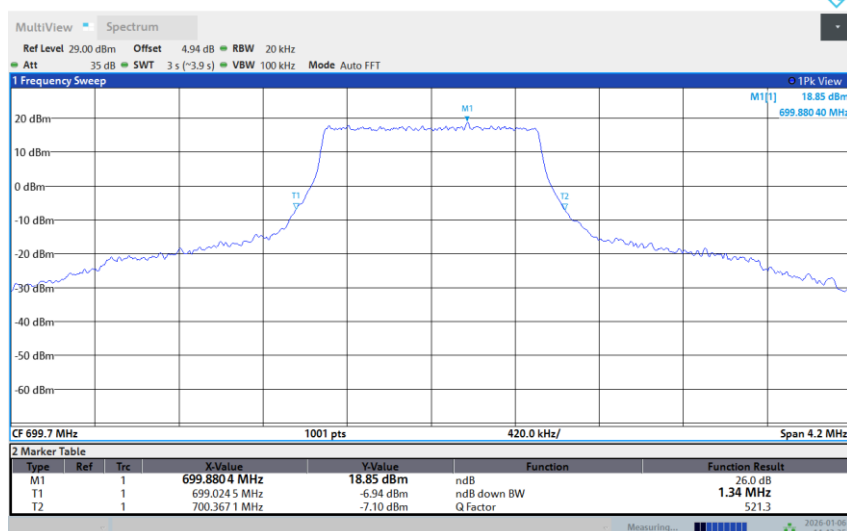
Test Graphs

Band 12-1.4M-LOW-QPSK-Full RB

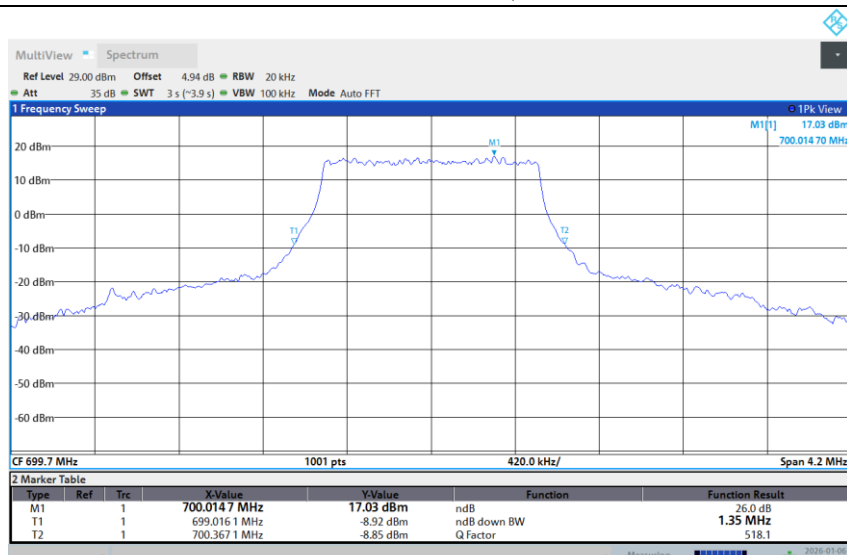
BOOMWAVE TEST (SHENZHEN)
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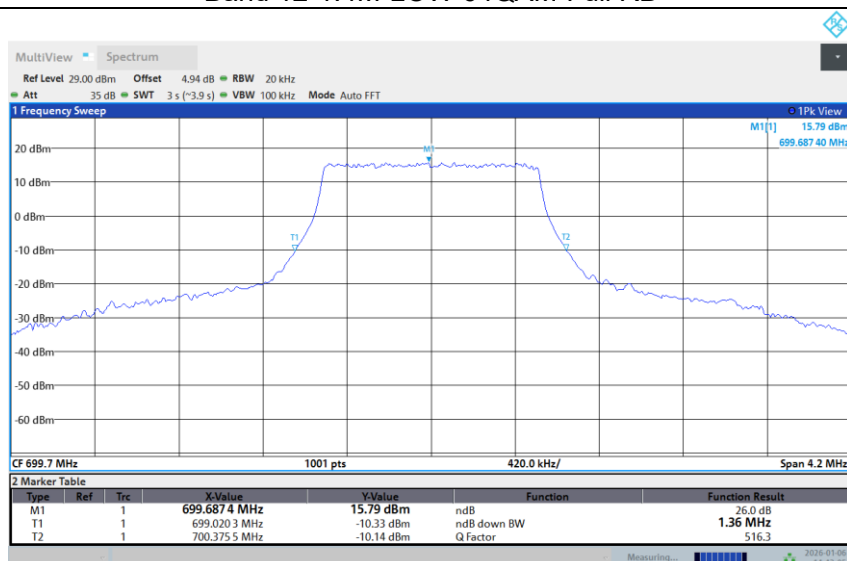
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



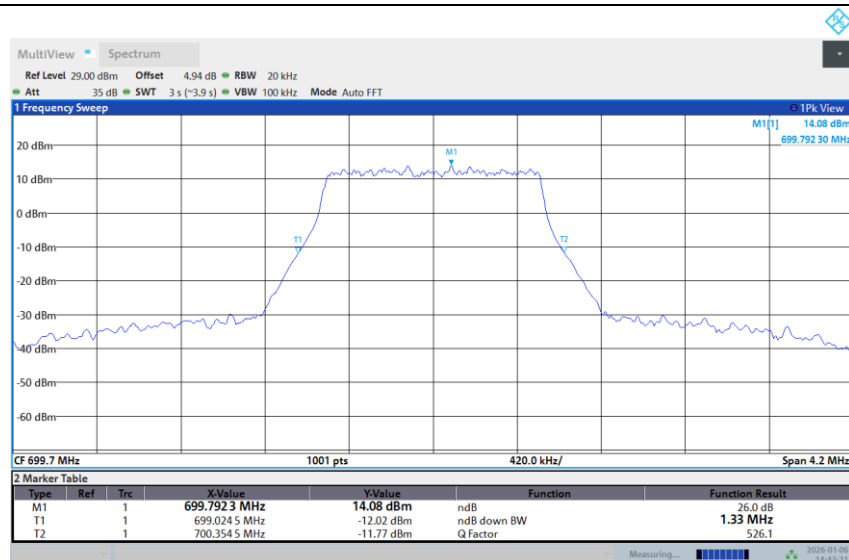
Band 12-1.4M-LOW-16QAM-Full RB



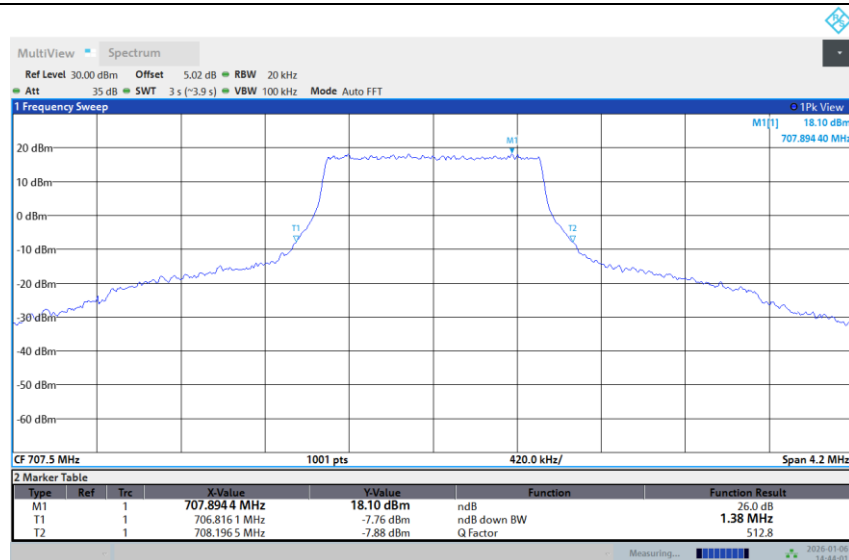
Band 12-1.4M-LOW-64QAM-Full RB



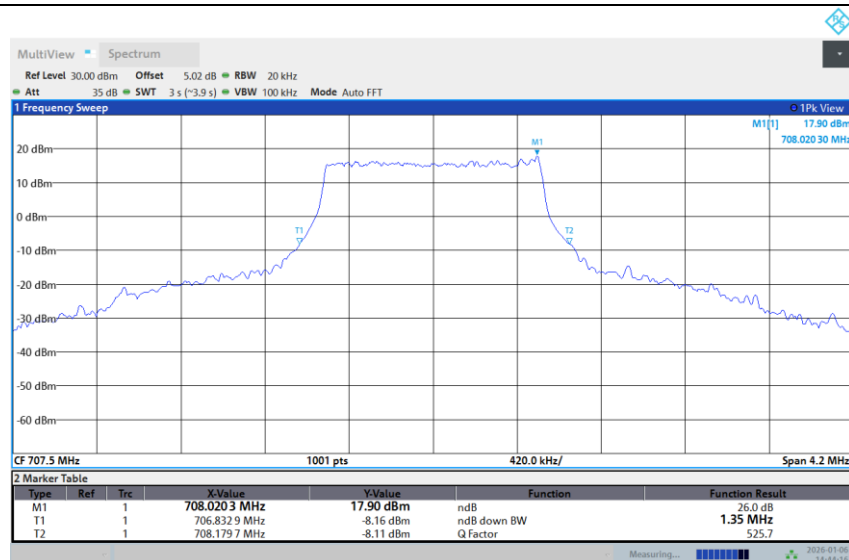
Band 12-1.4M-LOW-256QAM-Full RB



Band 12-1.4M-MID-QPSK-Full RB



Band 12-1.4M-MID-16QAM-Full RB

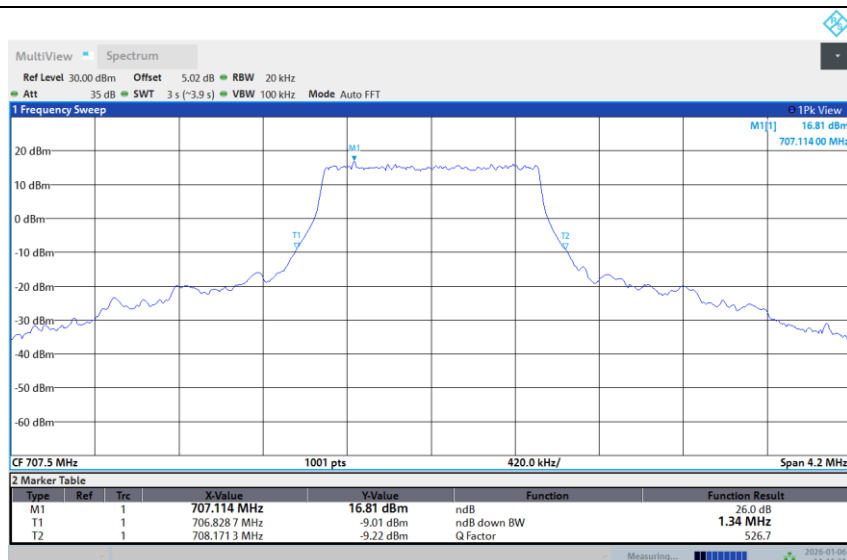


Band 12-1.4M-MID-64QAM-Full RB

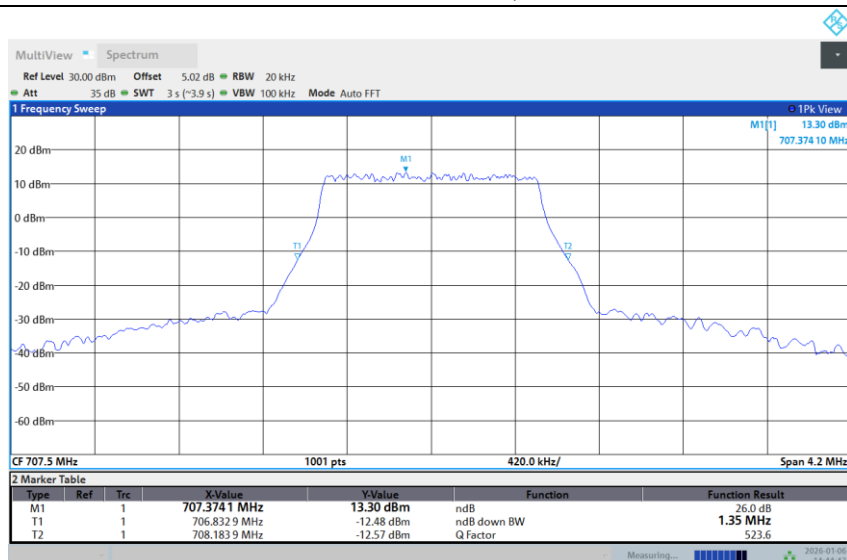
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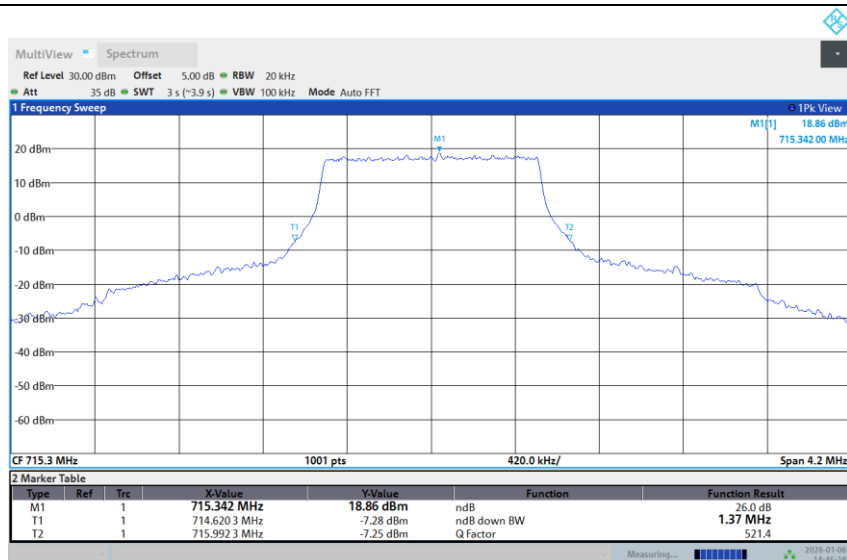
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



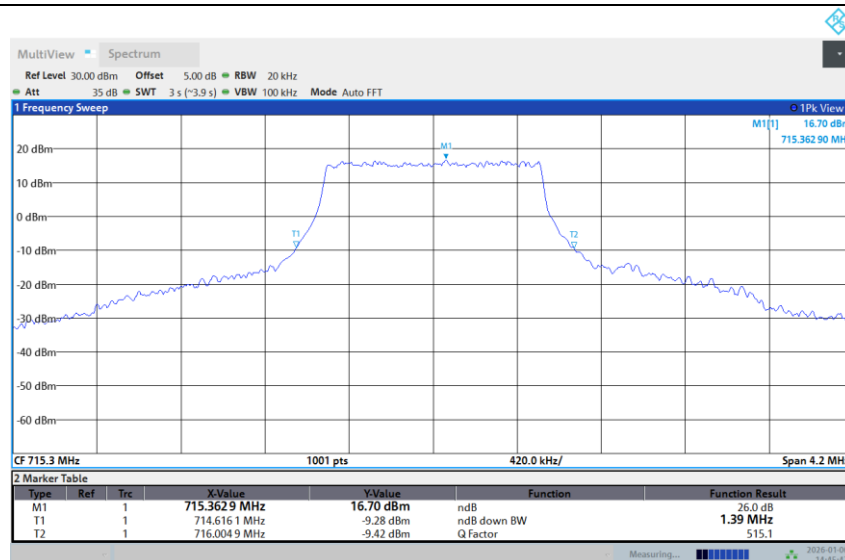
Band 12-1.4M-MID-256QAM-Full RB



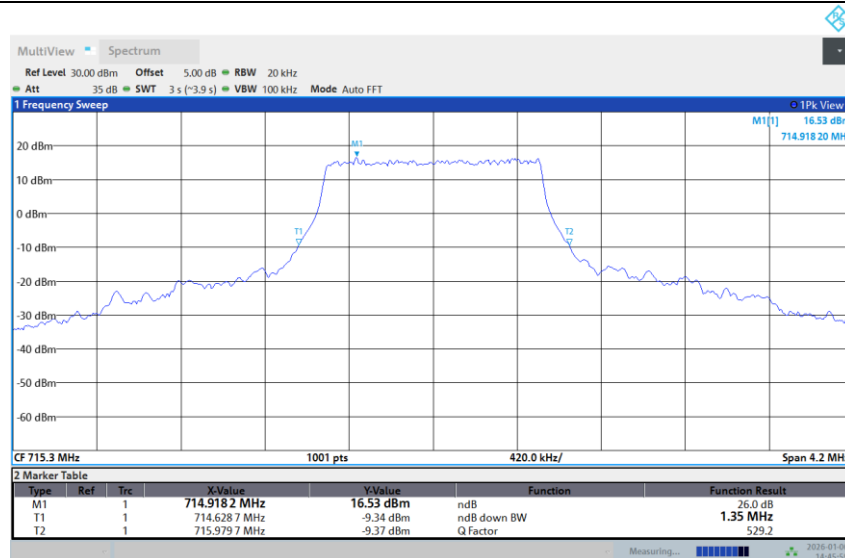
Band 12-1.4M-HIGH-QPSK-Full RB



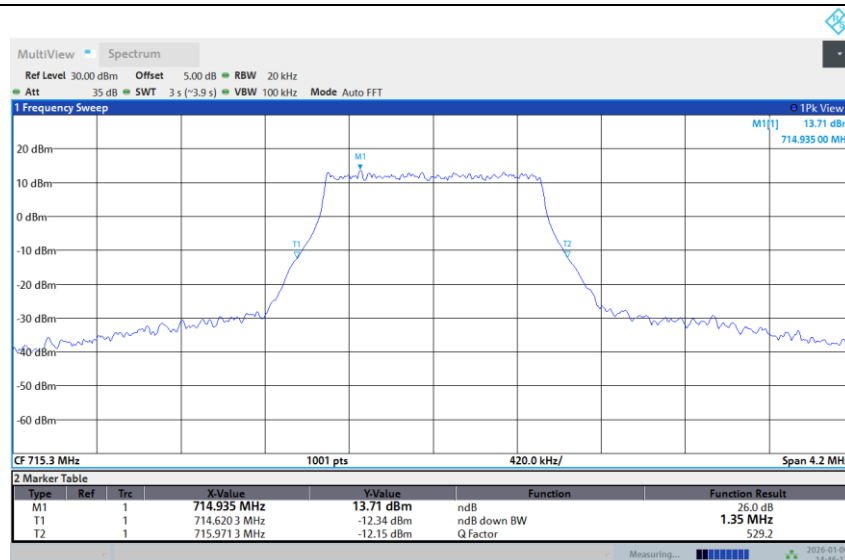
Band 12-1.4M-HIGH-16QAM-Full RB



Band 12-1.4M-HIGH-64QAM-Full RB



Band 12-1.4M-HIGH-256QAM-Full RB

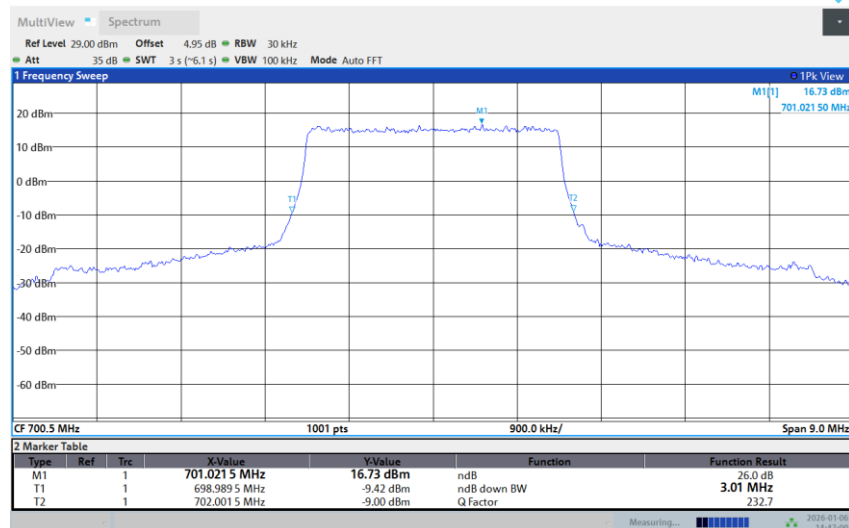


Band 12-3M-LOW-QPSK-Full RB

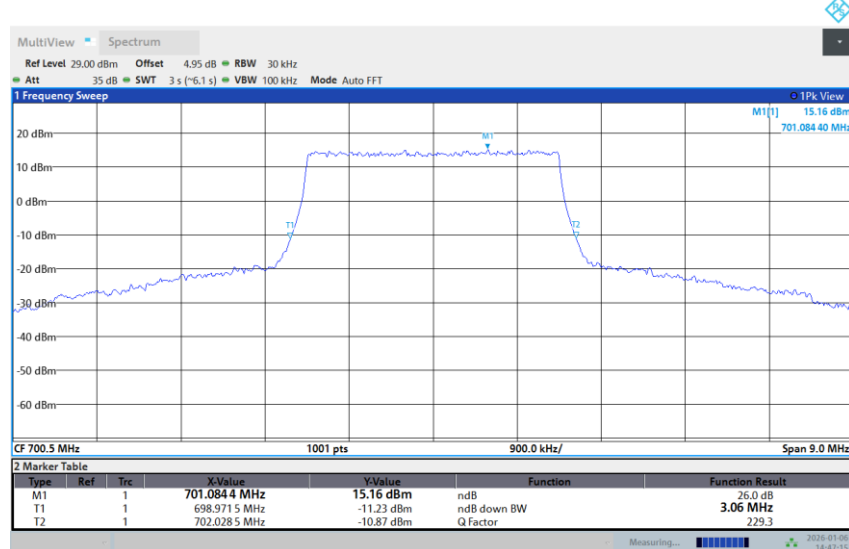
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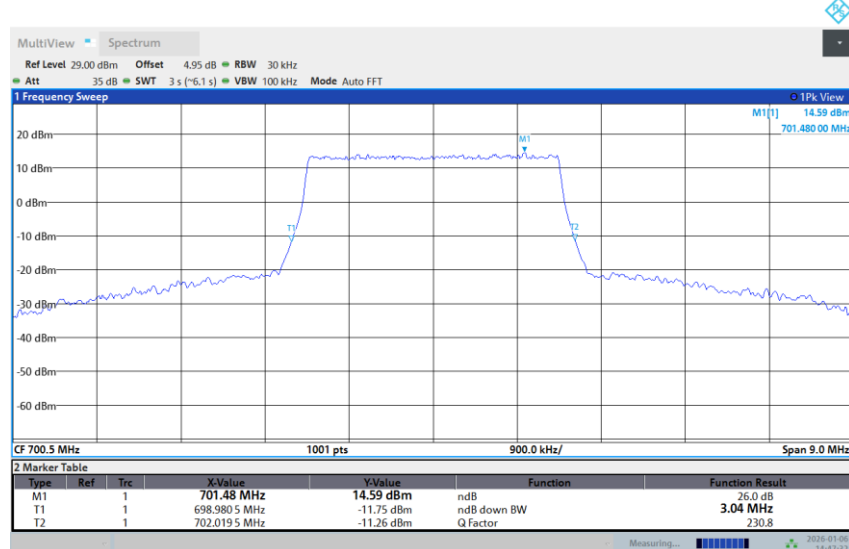
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



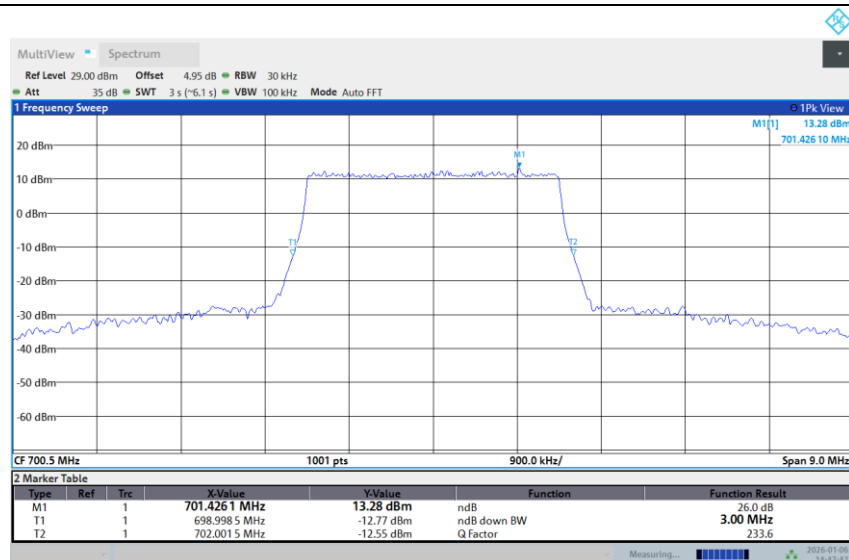
Band 12-3M-LOW-16QAM-Full RB



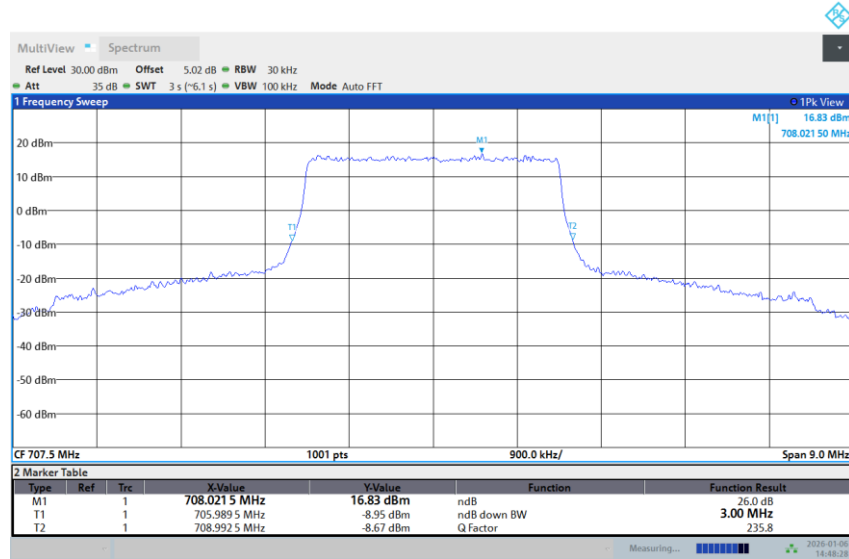
Band 12-3M-LOW-64QAM-Full RB



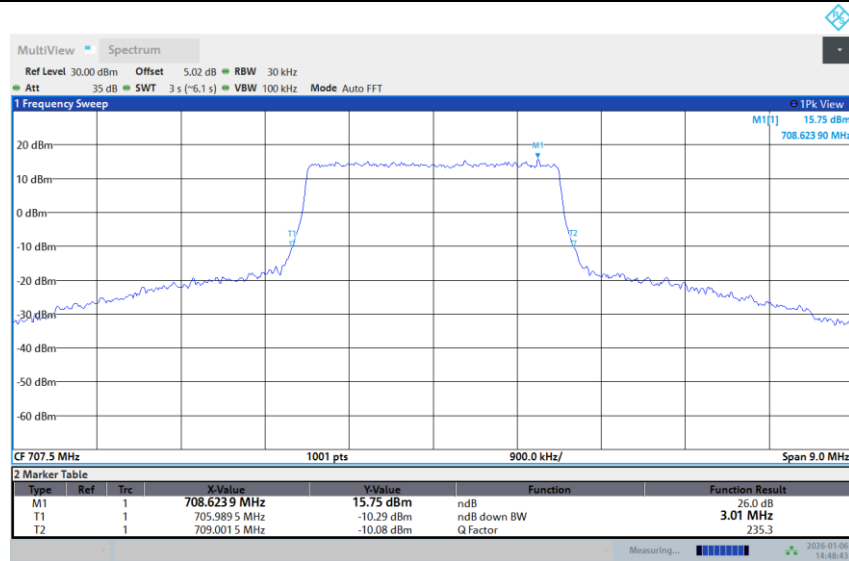
Band 12-3M-LOW-256QAM-Full RB



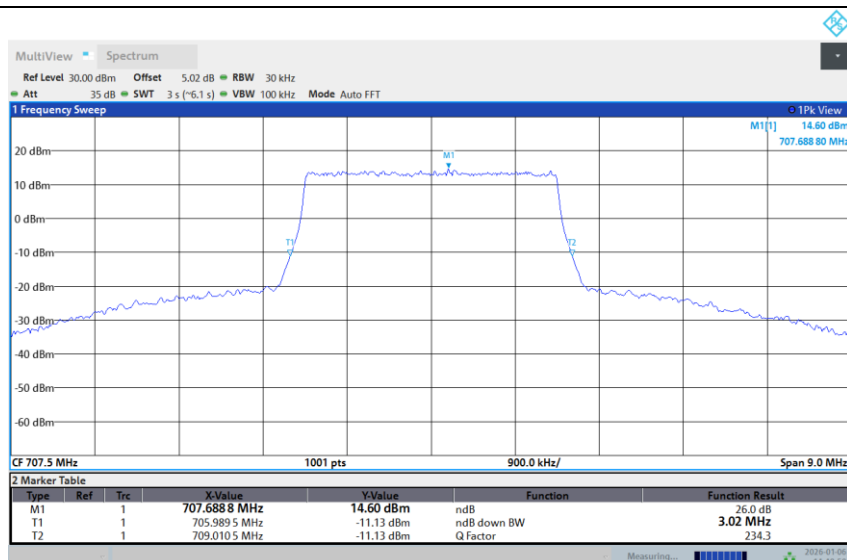
Band 12-3M-MID-QPSK-Full RB



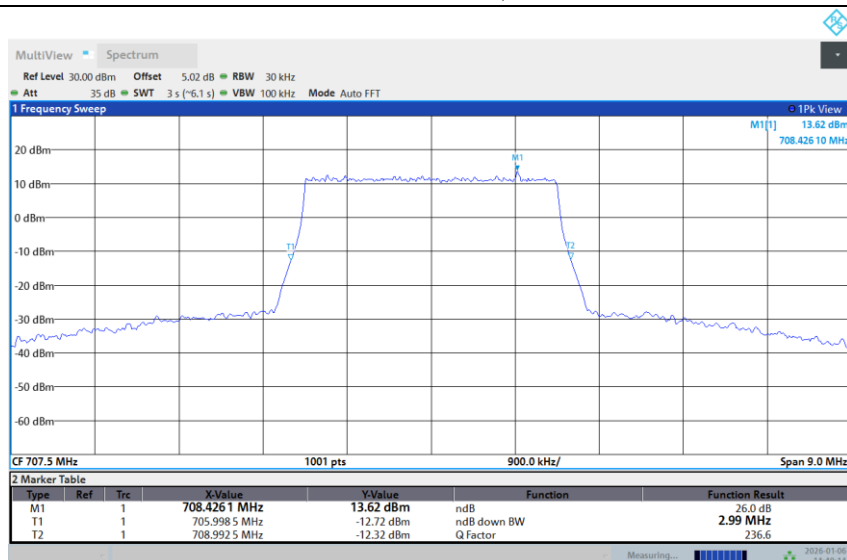
Band 12-3M-MID-16QAM-Full RB



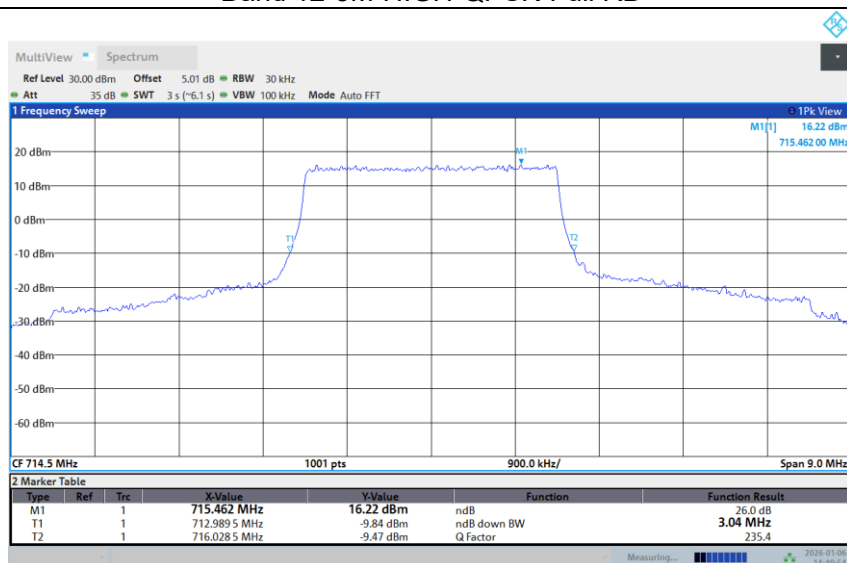
Band 12-3M-MID-64QAM-Full RB



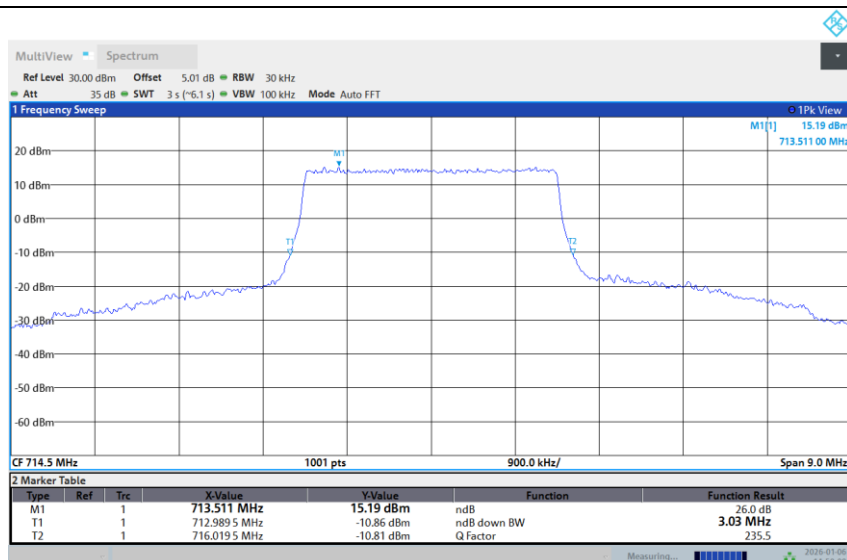
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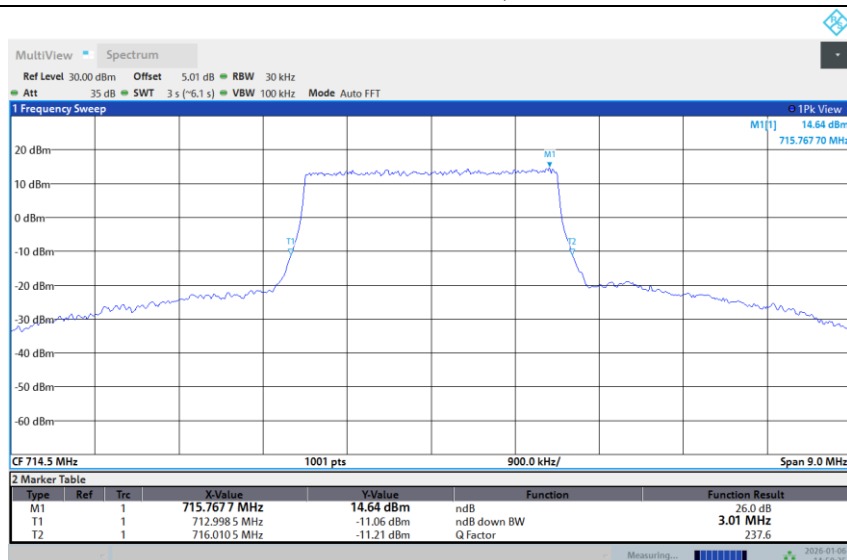
Band 12-3M-HIGH-QPSK-Full RB



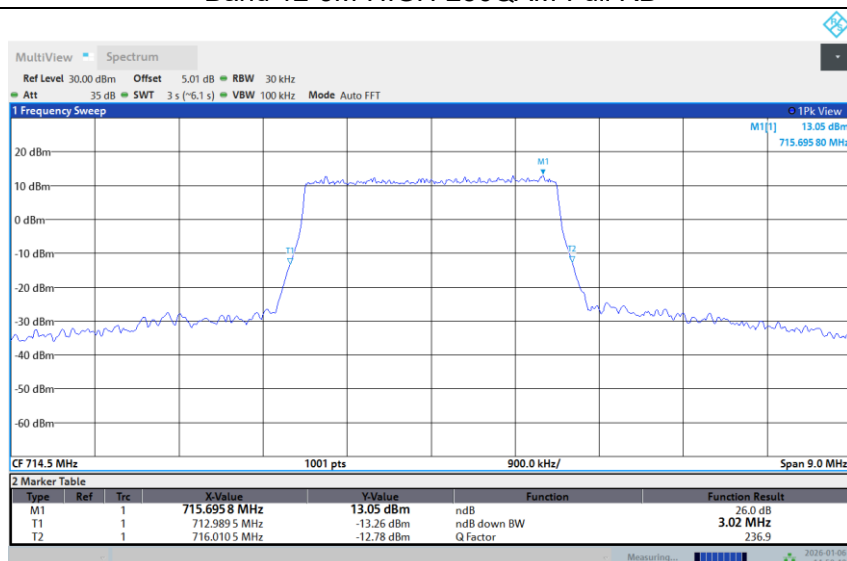
Band 12-3M-HIGH-16QAM-Full RB



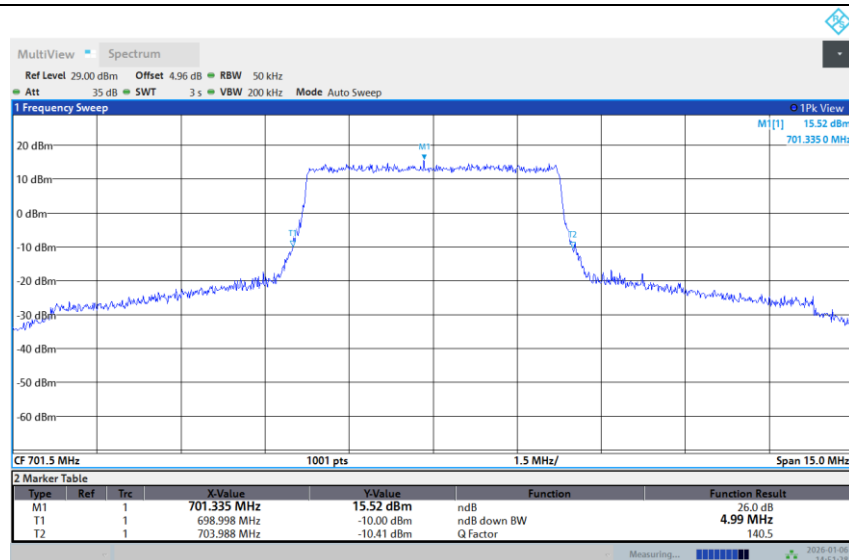
Band 12-3M-HIGH-64QAM-Full RB



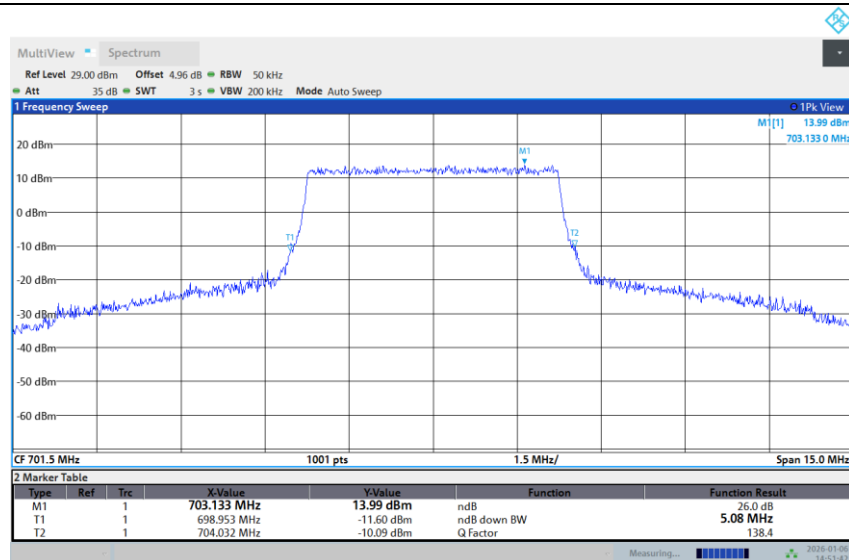
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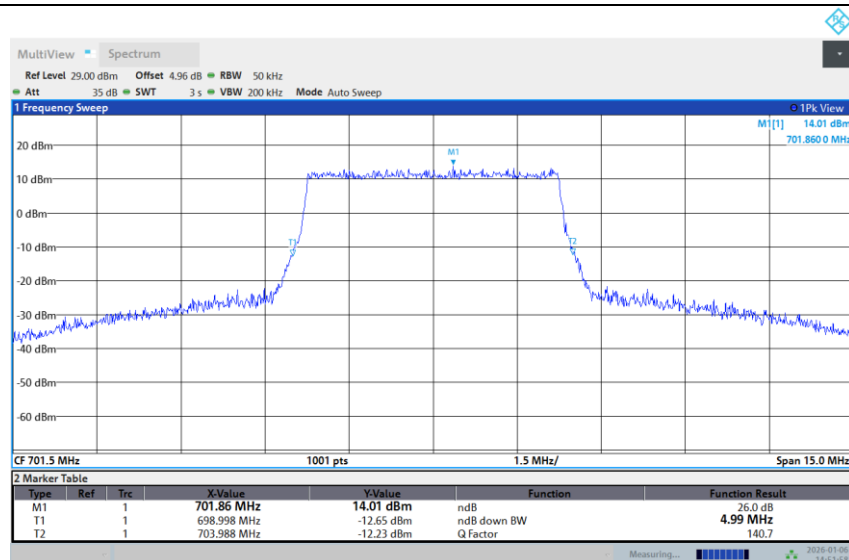
Band 12-5M-LOW-QPSK-Full RB



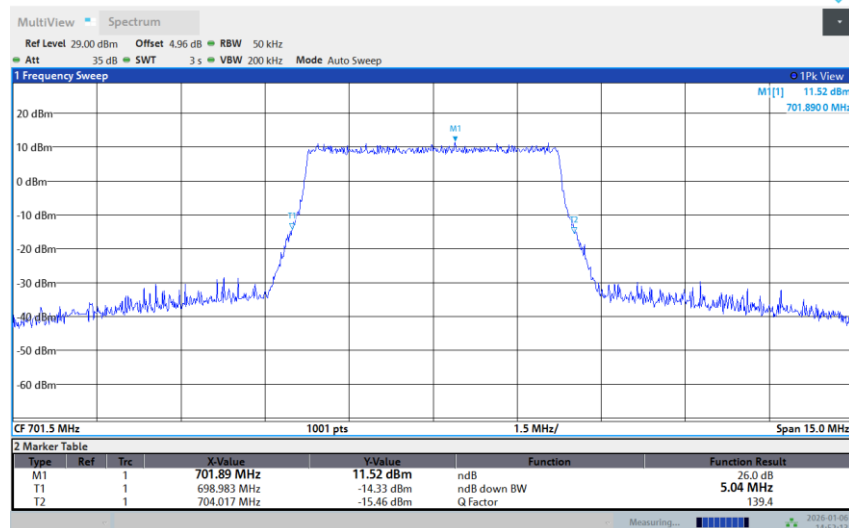
Band 12-5M-LOW-16QAM-Full RB



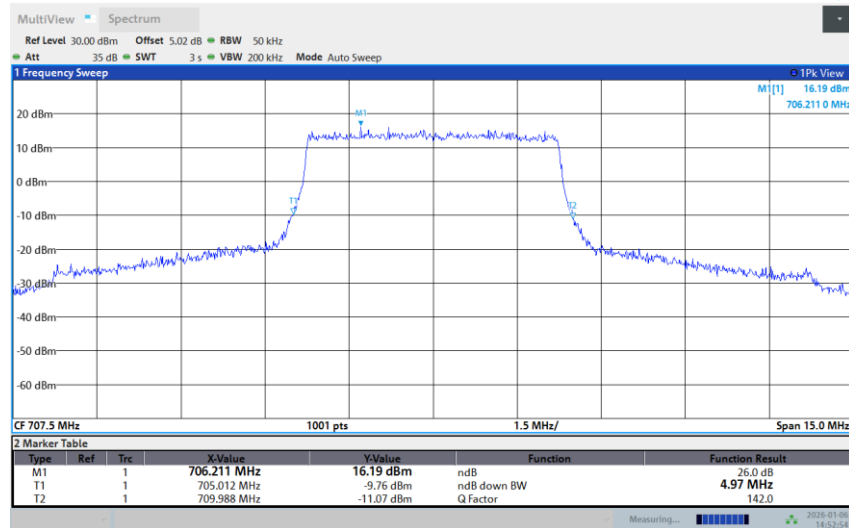
Band 12-5M-LOW-64QAM-Full RB



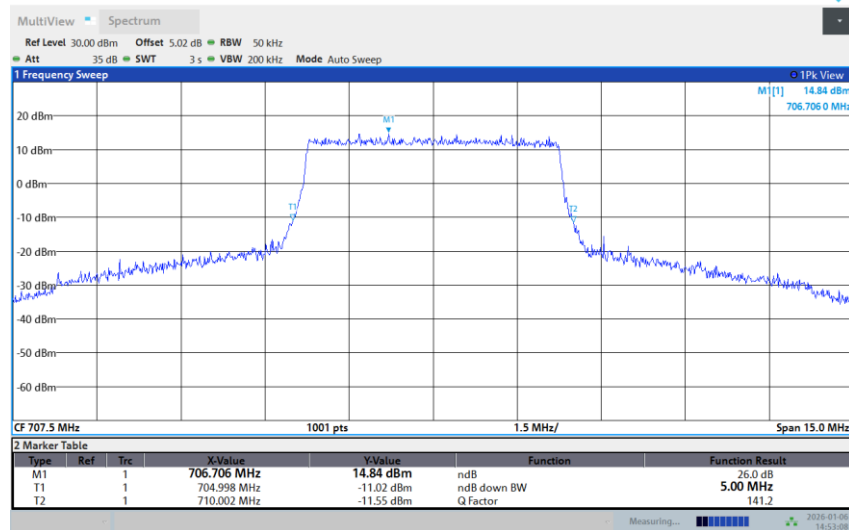
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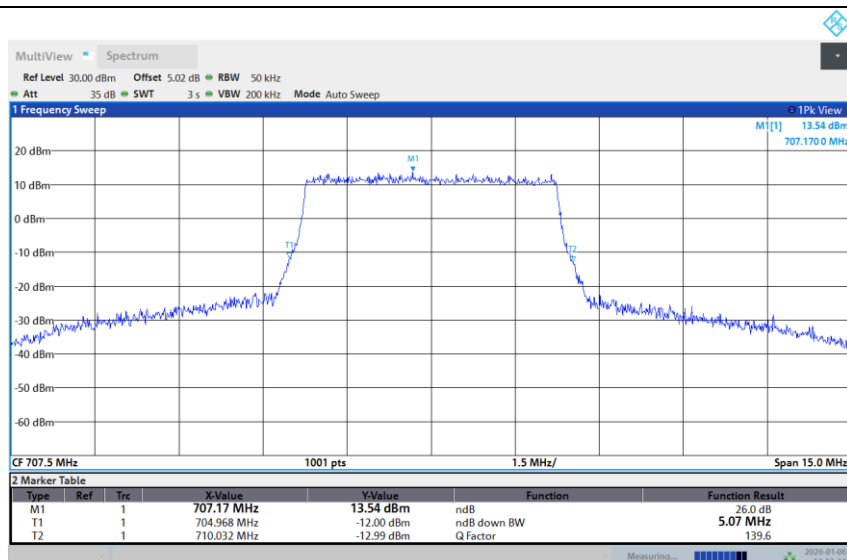
Band 12-5M-MID-QPSK-Full RB



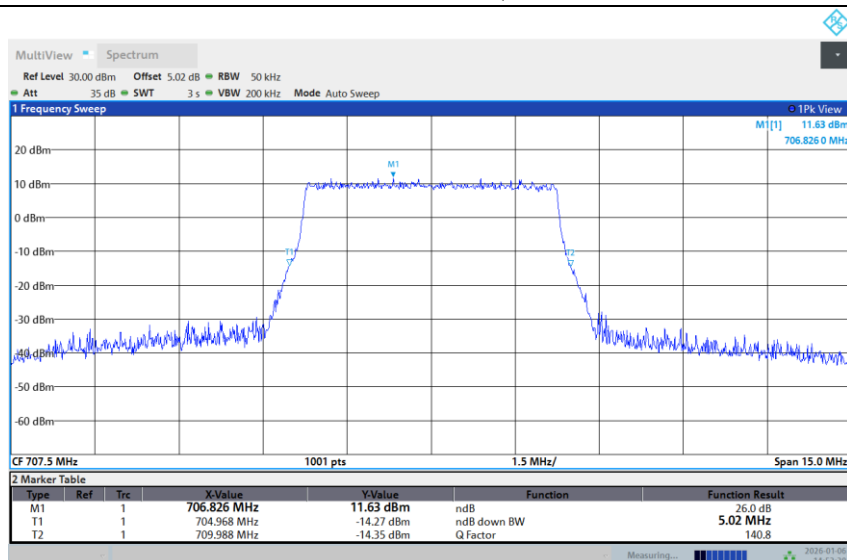
Band 12-5M-MID-16QAM-Full RB



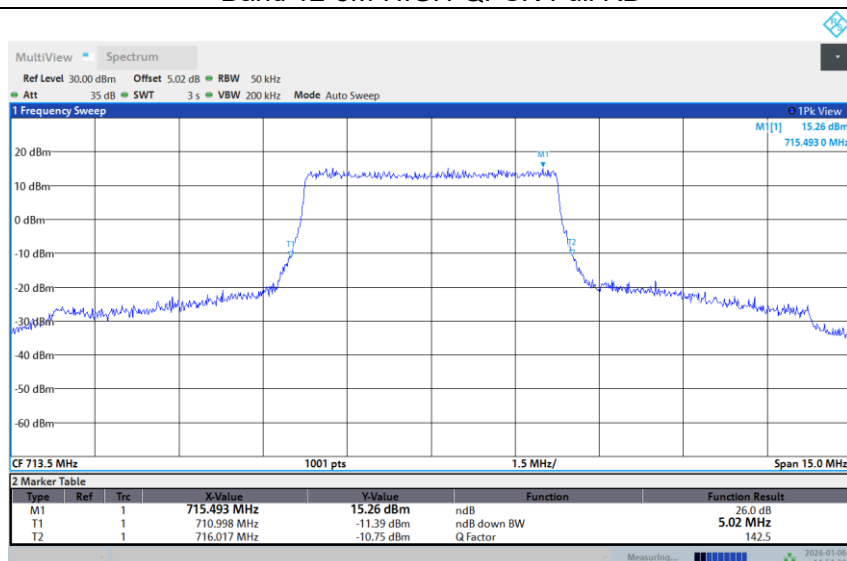
Band 12-5M-MID-64QAM-Full RB



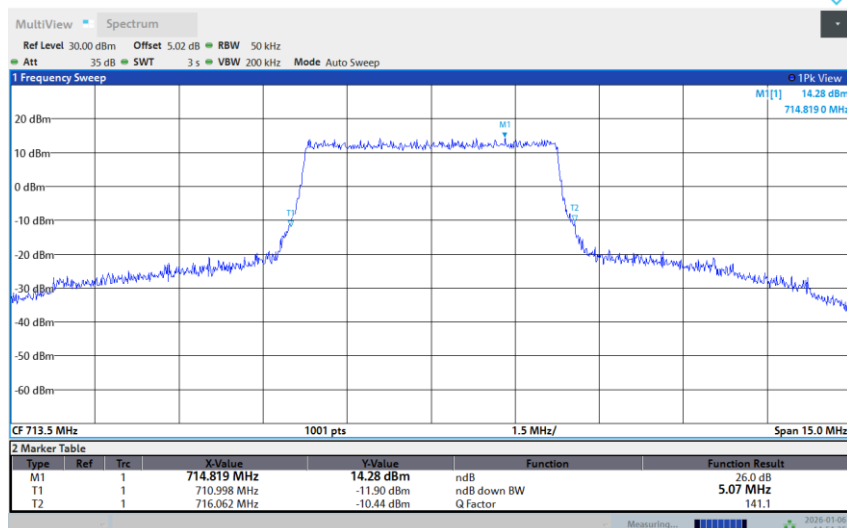
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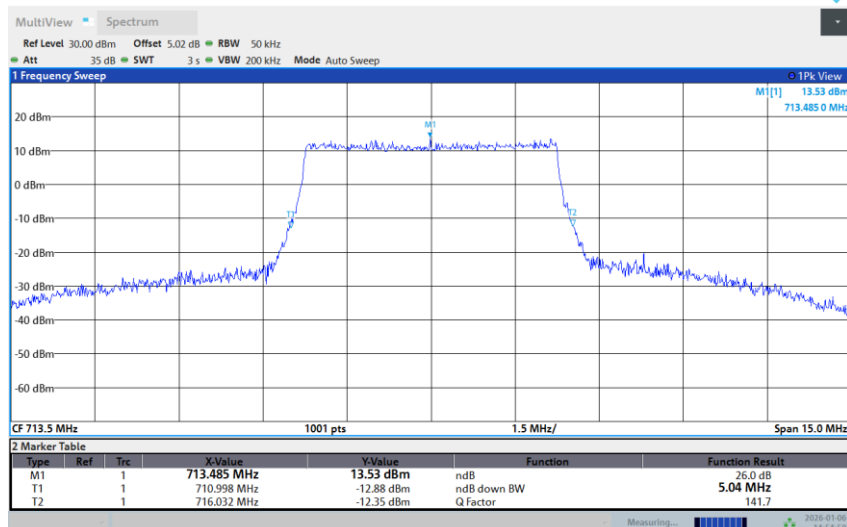
Band 12-5M-HIGH-QPSK-Full RB



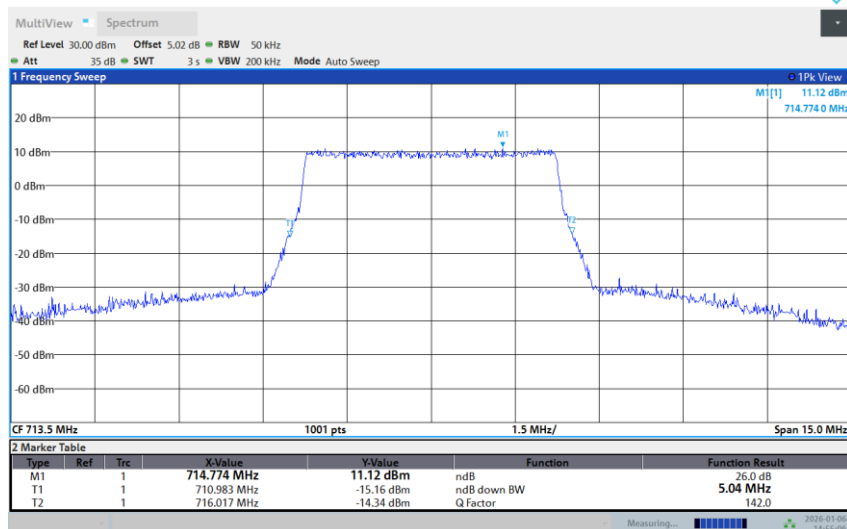
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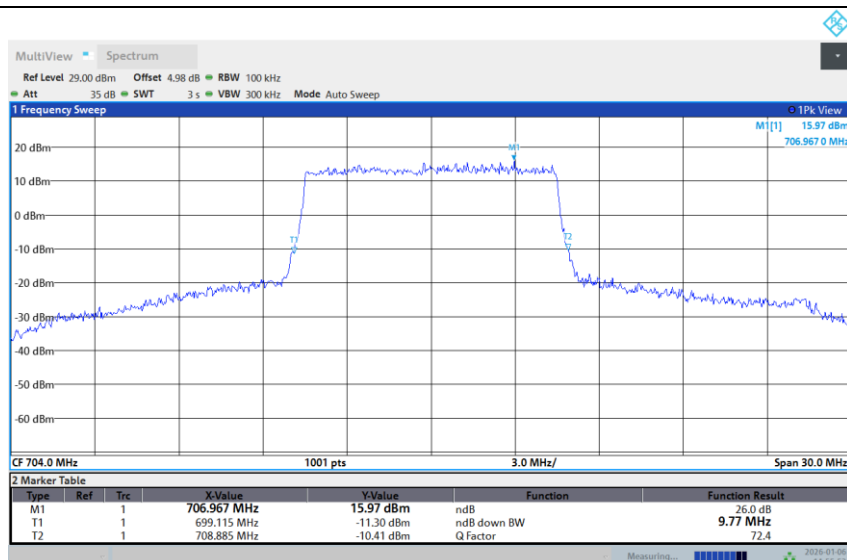
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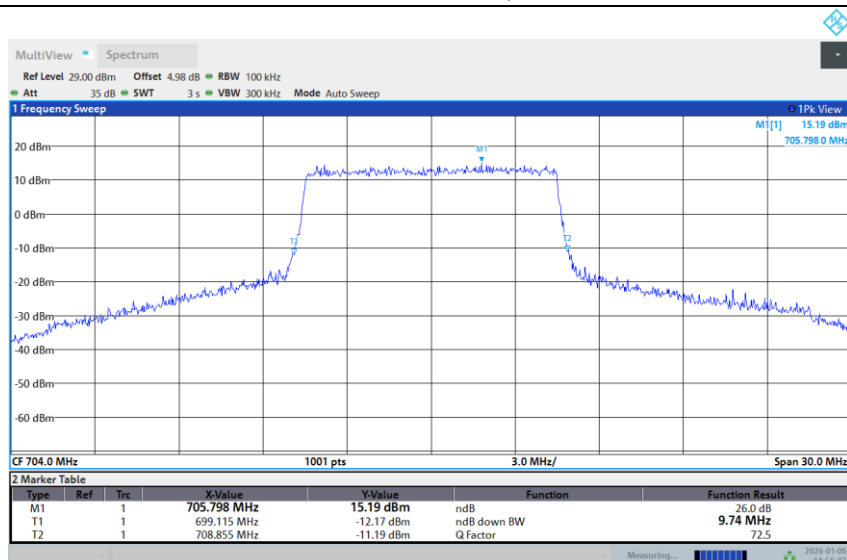
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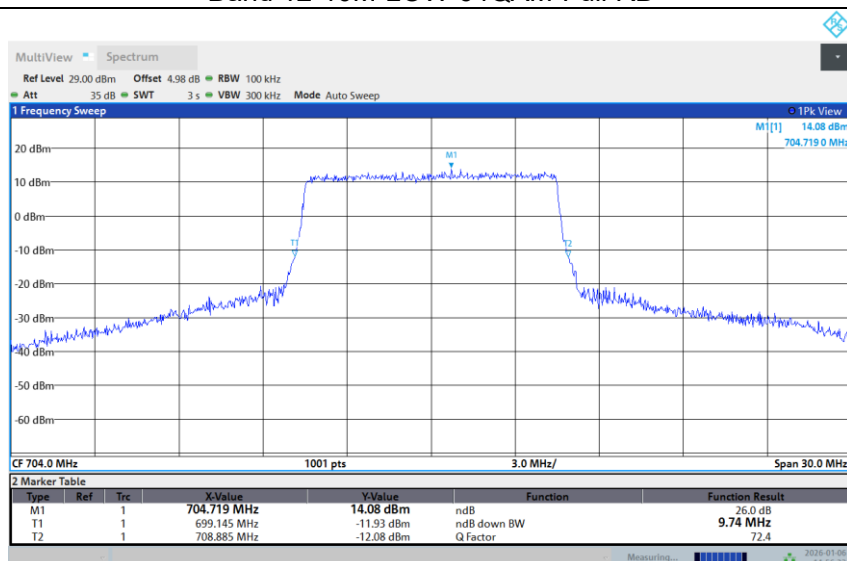
Band 12-10M-LOW-QPSK-Full RB



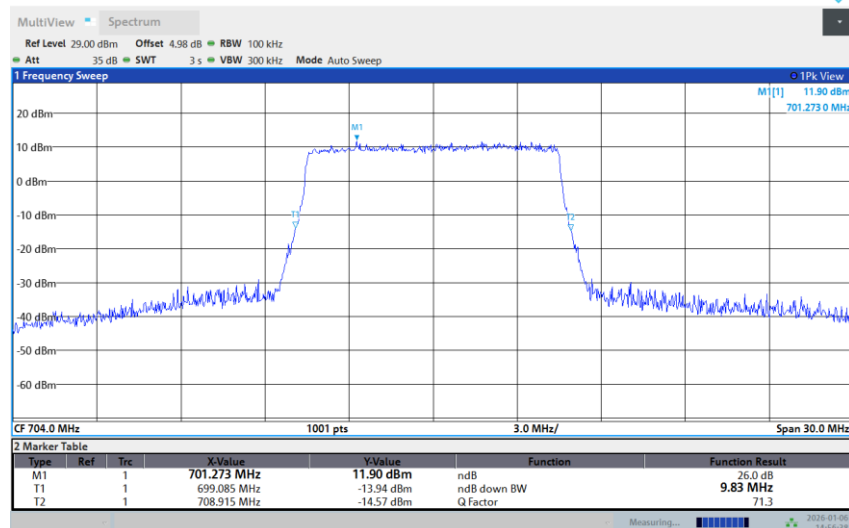
Band 12-10M-LOW-16QAM-Full RB



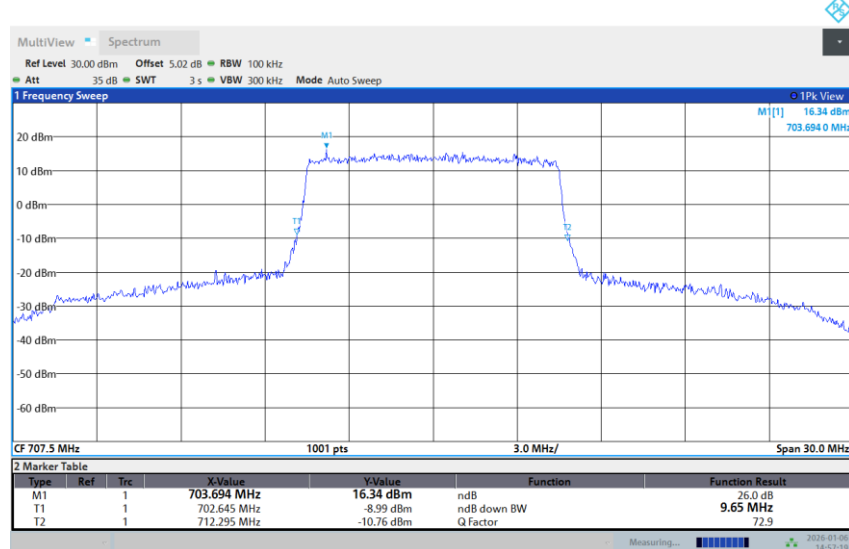
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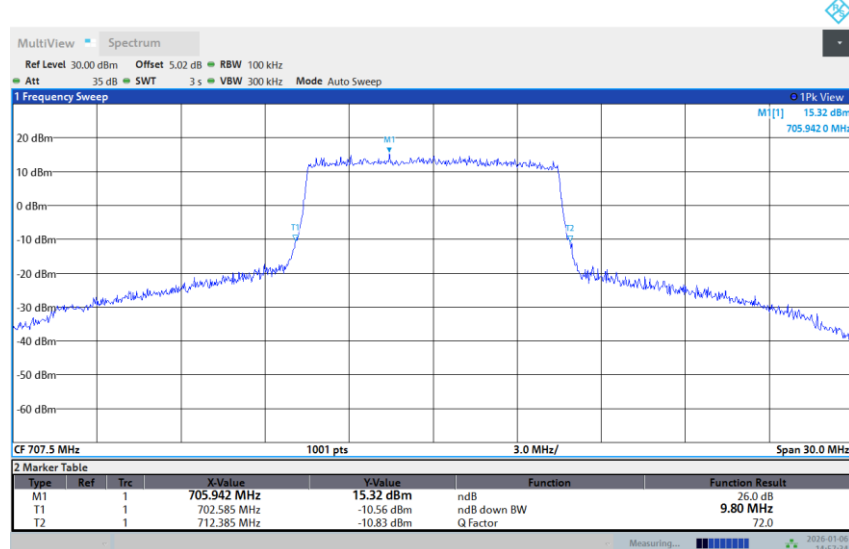
Band 12-10M-LOW-256QAM-Full RB



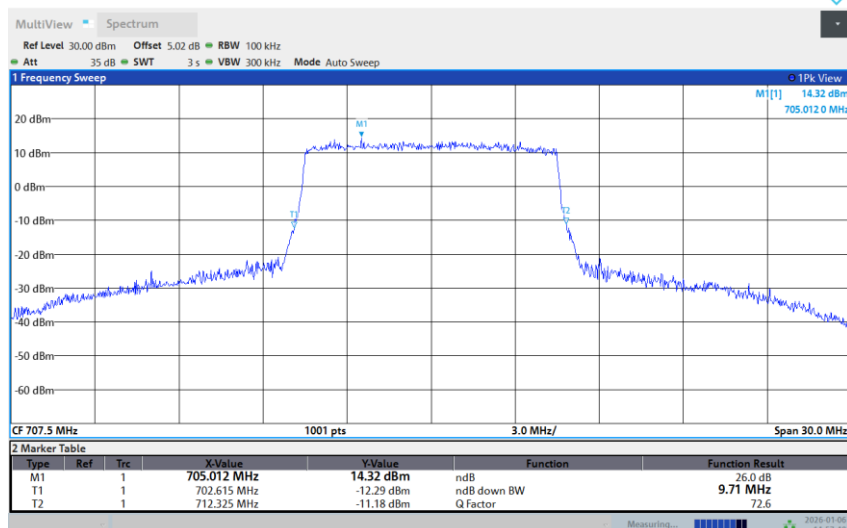
Band 12-10M-MID-QPSK-Full RB



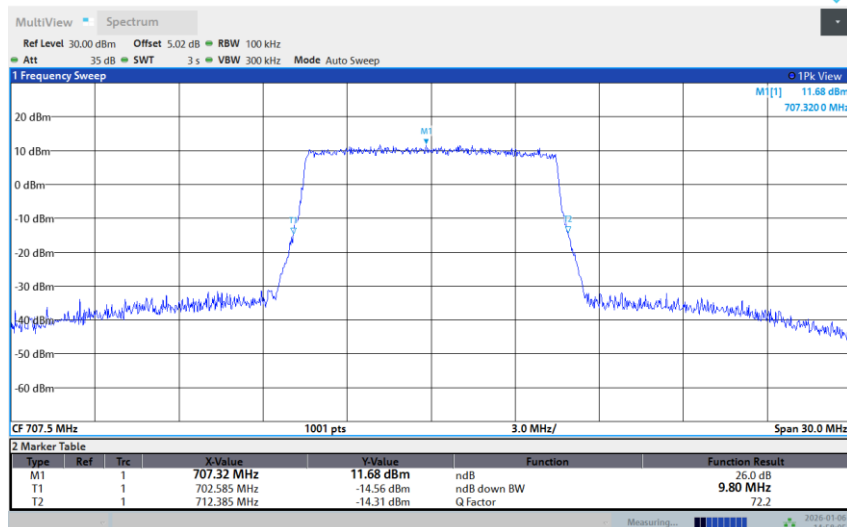
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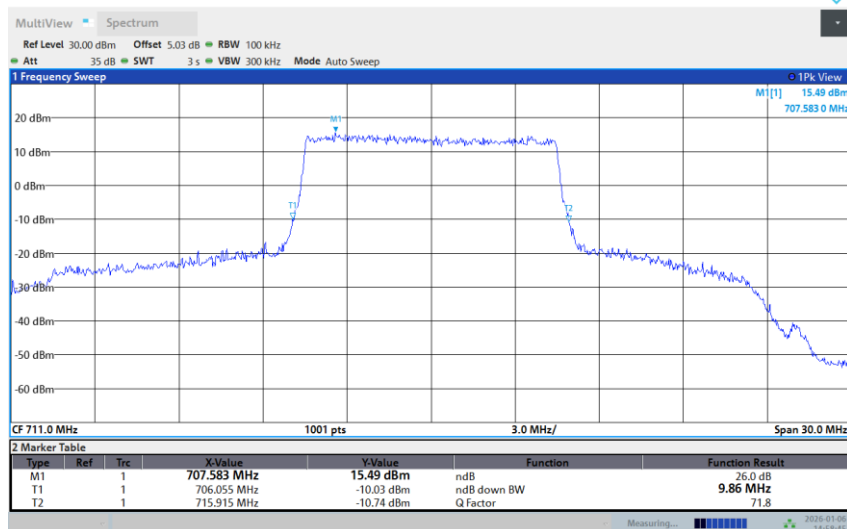
Band 12-10M-MID-64QAM-Full RB



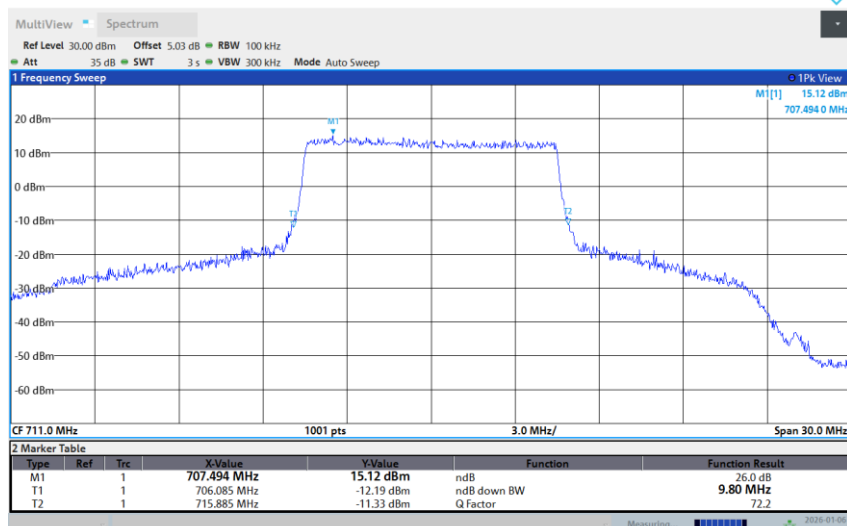
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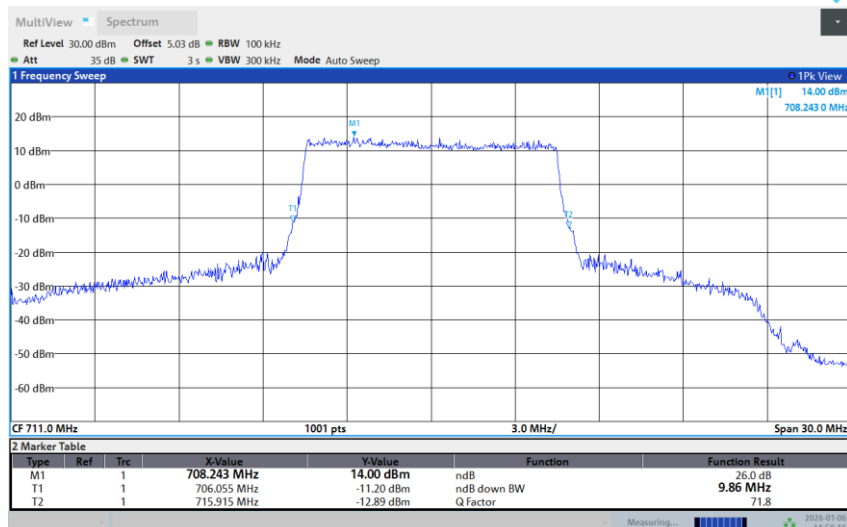
Band 12-10M-HIGH-QPSK-Full RB



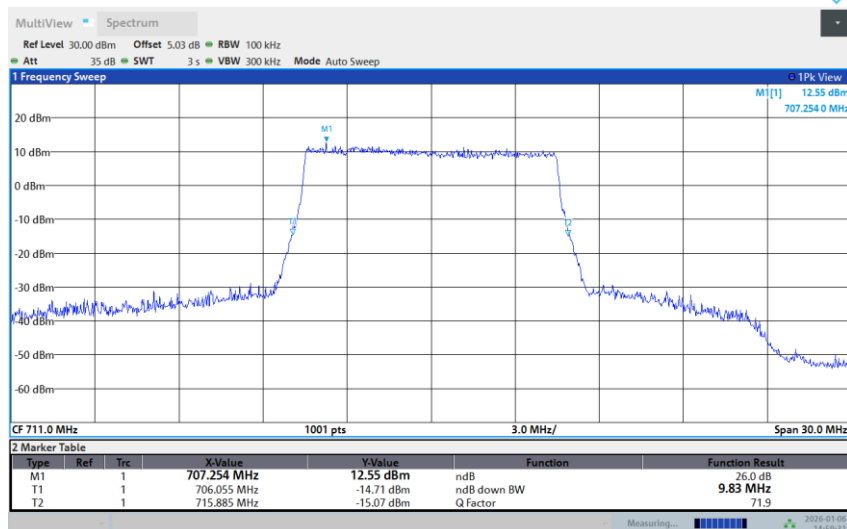
Band 12-10M-HIGH-16QAM-Full RB



Band 12-10M-HIGH-64QAM-Full RB



Band 12-10M-HIGH-256QAM-Full RB



BAND EDGE

Test Result

LTE band 12

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
1.4MHz	QPSK	23017	1RB Low	See Graph1	PASS
1.4MHz	QPSK	23017	Full RB	See Graph2	PASS
1.4MHz	16QAM	23017	1RB Low	See Graph3	PASS
1.4MHz	16QAM	23017	Full RB	See Graph4	PASS
1.4MHz	64QAM	23017	1RB Low	See Graph5	PASS
1.4MHz	64QAM	23017	Full RB	See Graph6	PASS
1.4MHz	256QAM	23017	1RB Low	See Graph7	PASS
1.4MHz	256QAM	23017	Full RB	See Graph8	PASS
1.4MHz	QPSK	23173	1RB High	See Graph9	PASS
1.4MHz	QPSK	23173	Full RB	See Graph10	PASS
1.4MHz	16QAM	23173	1RB High	See Graph11	PASS
1.4MHz	16QAM	23173	Full RB	See Graph12	PASS
1.4MHz	64QAM	23173	1RB High	See Graph13	PASS
1.4MHz	64QAM	23173	Full RB	See Graph14	PASS
1.4MHz	256QAM	23173	1RB High	See Graph15	PASS
1.4MHz	256QAM	23173	Full RB	See Graph16	PASS
3MHz	QPSK	23025	1RB Low	See Graph17	PASS
3MHz	QPSK	23025	Full RB	See Graph18	PASS
3MHz	16QAM	23025	1RB Low	See Graph19	PASS
3MHz	16QAM	23025	Full RB	See Graph20	PASS
3MHz	64QAM	23025	1RB Low	See Graph21	PASS
3MHz	64QAM	23025	Full RB	See Graph22	PASS
3MHz	256QAM	23025	1RB Low	See Graph23	PASS
3MHz	256QAM	23025	Full RB	See Graph24	PASS
3MHz	QPSK	23165	1RB High	See Graph25	PASS
3MHz	QPSK	23165	Full RB	See Graph26	PASS
3MHz	16QAM	23165	1RB High	See Graph27	PASS
3MHz	16QAM	23165	Full RB	See Graph28	PASS
3MHz	64QAM	23165	1RB High	See Graph29	PASS
3MHz	64QAM	23165	Full RB	See Graph30	PASS
3MHz	256QAM	23165	1RB High	See Graph31	PASS
3MHz	256QAM	23165	Full RB	See Graph32	PASS
5MHz	QPSK	23035	1RB Low	See Graph33	PASS
5MHz	QPSK	23035	Full RB	See Graph34	PASS
5MHz	16QAM	23035	1RB Low	See Graph35	PASS
5MHz	16QAM	23035	Full RB	See Graph36	PASS
5MHz	64QAM	23035	1RB Low	See Graph37	PASS
5MHz	64QAM	23035	Full RB	See Graph38	PASS
5MHz	256QAM	23035	1RB Low	See Graph39	PASS
5MHz	256QAM	23035	Full RB	See Graph40	PASS
5MHz	QPSK	23155	1RB High	See Graph41	PASS
5MHz	QPSK	23155	Full RB	See Graph42	PASS
5MHz	16QAM	23155	1RB High	See Graph43	PASS
5MHz	16QAM	23155	Full RB	See Graph44	PASS
5MHz	64QAM	23155	1RB High	See Graph45	PASS

BOOMWAVE TEST (SHENZHEN)
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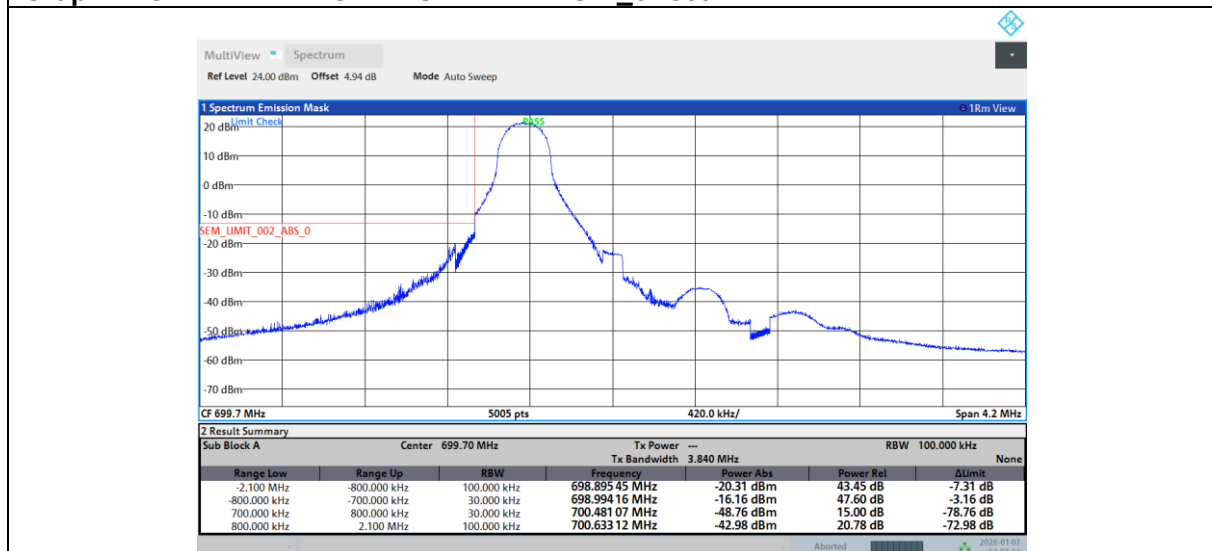
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: RF260714B008

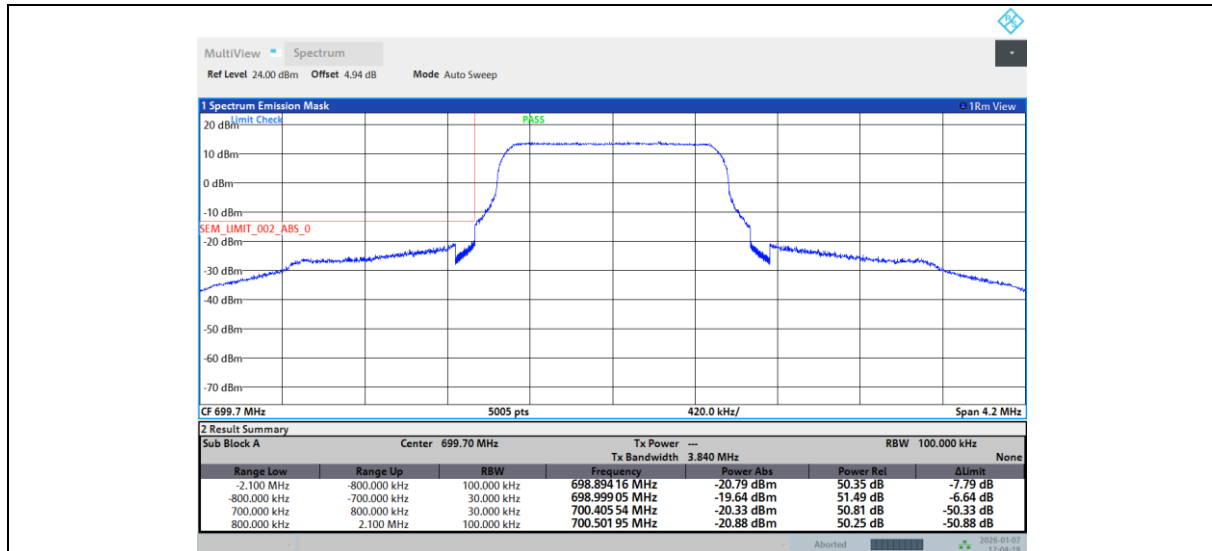
5MHz	64QAM	23155	Full RB	See Graph46	PASS
5MHz	256QAM	23155	1RB High	See Graph47	PASS
5MHz	256QAM	23155	Full RB	See Graph48	PASS
10MHz	QPSK	23060	1RB Low	See Graph49	PASS
10MHz	QPSK	23060	Full RB	See Graph50	PASS
10MHz	16QAM	23060	1RB Low	See Graph51	PASS
10MHz	16QAM	23060	Full RB	See Graph52	PASS
10MHz	64QAM	23060	1RB Low	See Graph53	PASS
10MHz	64QAM	23060	Full RB	See Graph54	PASS
10MHz	256QAM	23060	1RB Low	See Graph55	PASS
10MHz	256QAM	23060	Full RB	See Graph56	PASS
10MHz	QPSK	23130	1RB High	See Graph57	PASS
10MHz	QPSK	23130	Full RB	See Graph58	PASS
10MHz	16QAM	23130	1RB High	See Graph59	PASS
10MHz	16QAM	23130	Full RB	See Graph60	PASS
10MHz	64QAM	23130	1RB High	See Graph61	PASS
10MHz	64QAM	23130	Full RB	See Graph62	PASS
10MHz	256QAM	23130	1RB High	See Graph63	PASS
10MHz	256QAM	23130	Full RB	See Graph64	PASS

Test Graphs

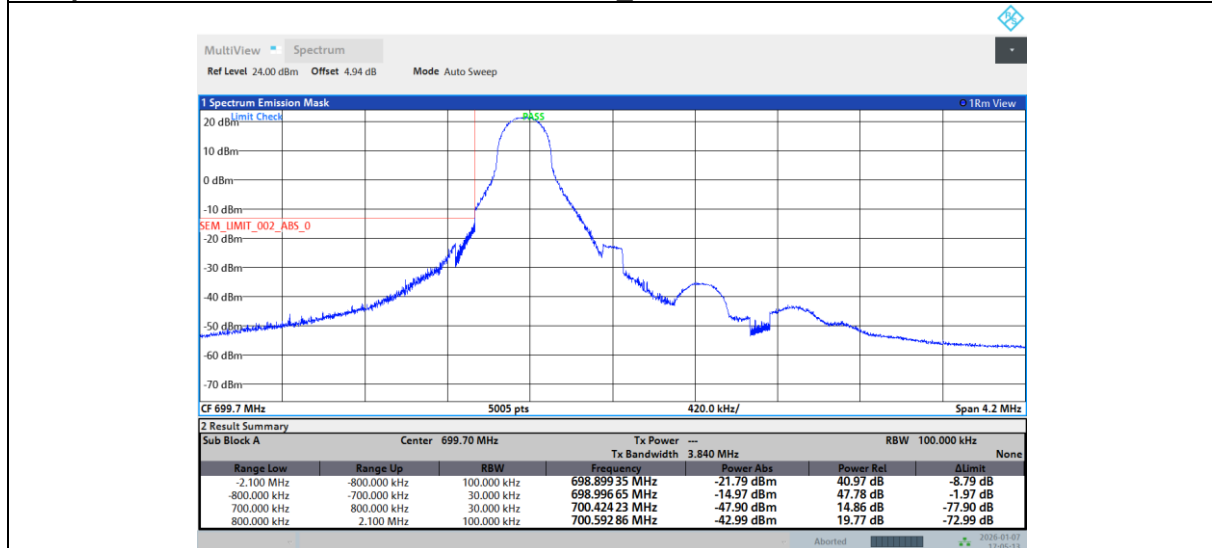
Graph1 LOW BAND EDGE BLOCK-1RB-LOW_offset



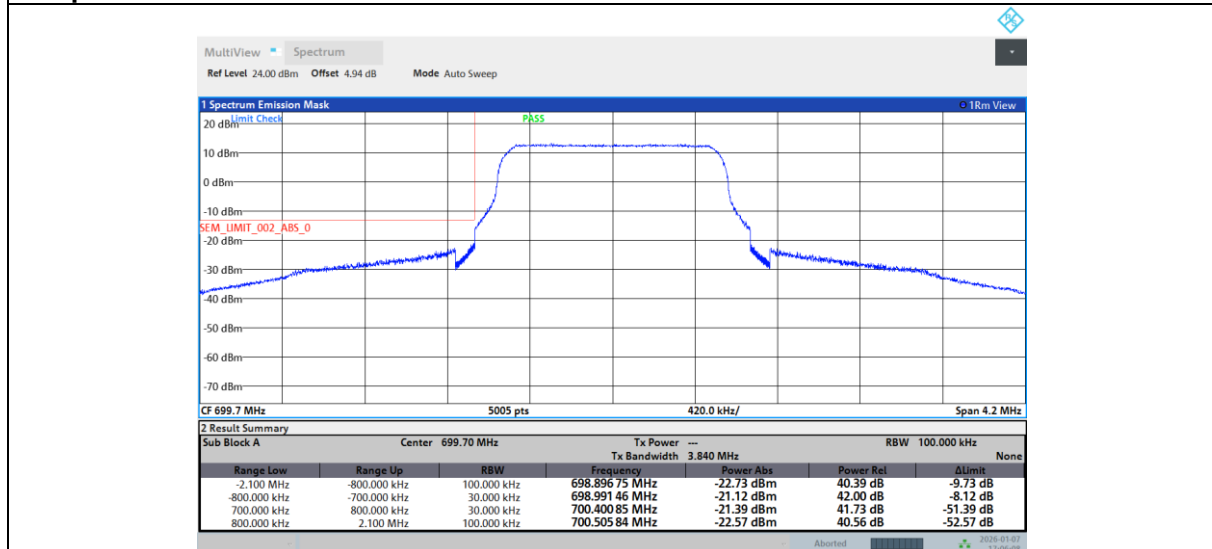
Graph2 LOW BAND EDGE BLOCK-1.4MHz-100%RB



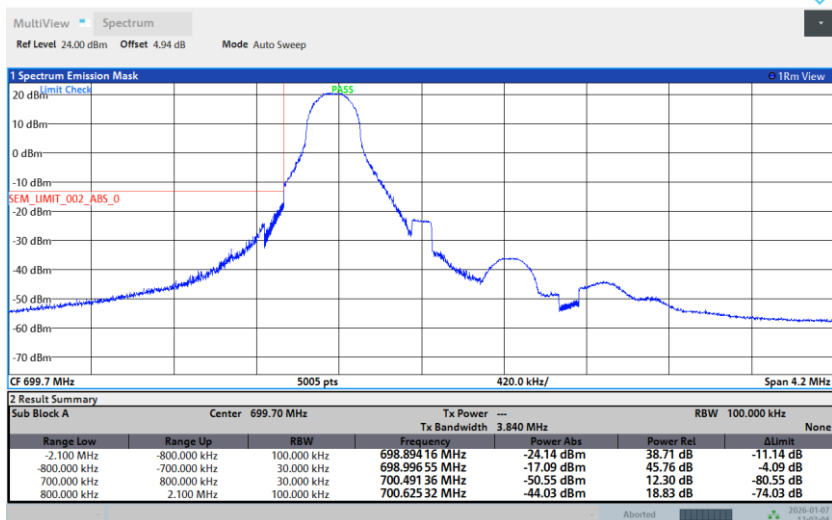
Graph3 LOW BAND EDGE BLOCK-1RB-LOW_offset



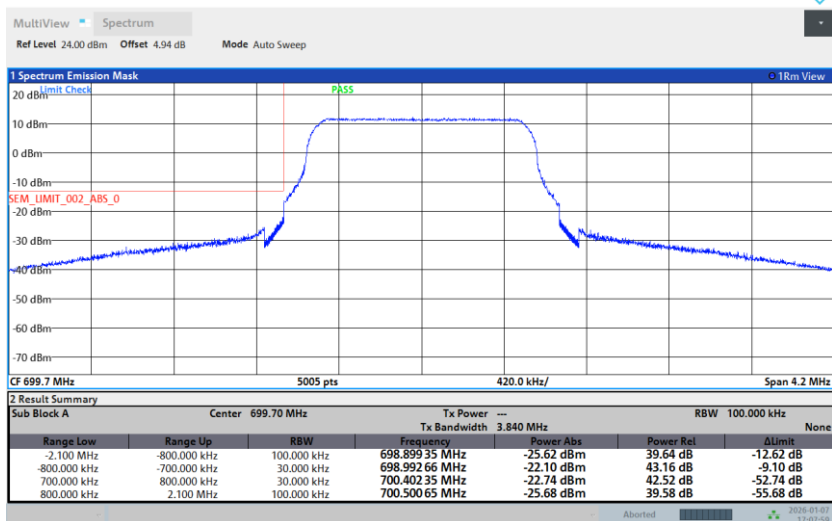
Graph4 LOW BAND EDGE BLOCK-1.4MHz-100%RB



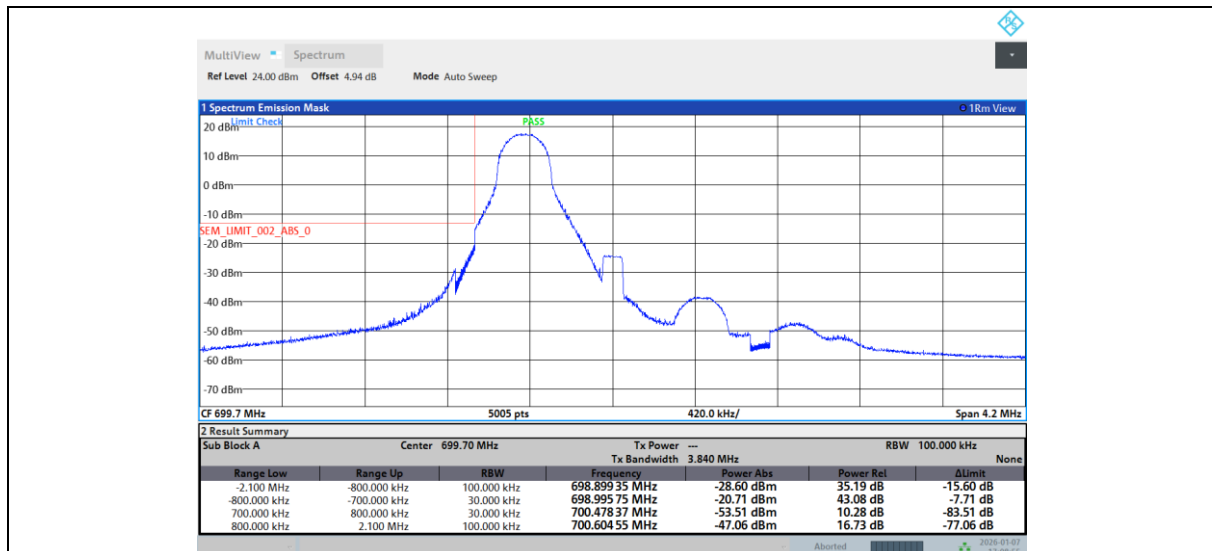
Graph5 LOW BAND EDGE BLOCK-1RB-LOW_offset



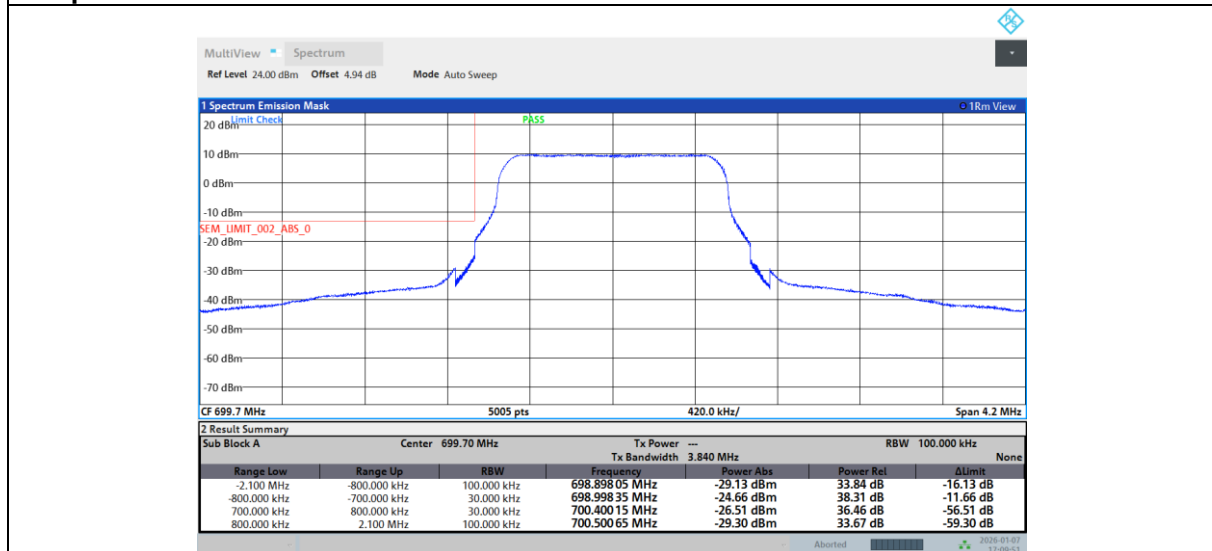
Graph6 LOW BAND EDGE BLOCK-1.4MHz-100%RB



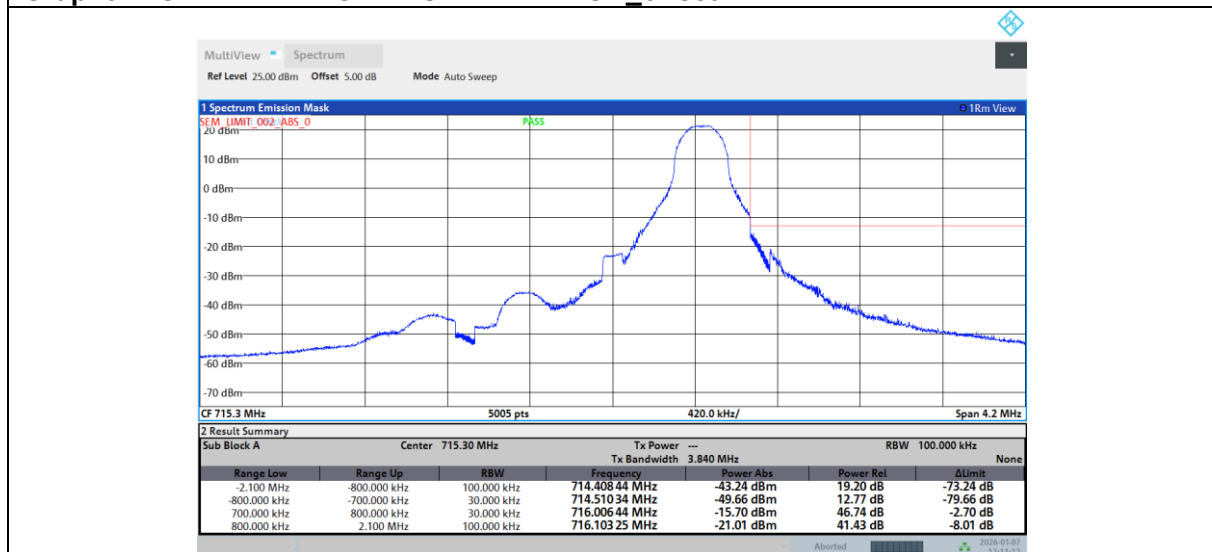
Graph7 LOW BAND EDGE BLOCK-1RB-LOW_offset



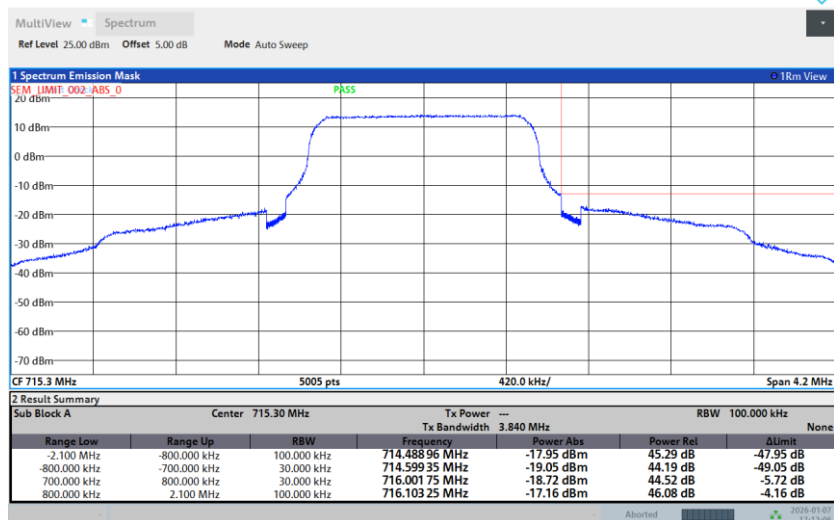
Graph8 LOW BAND EDGE BLOCK-1.4MHz-100%RB



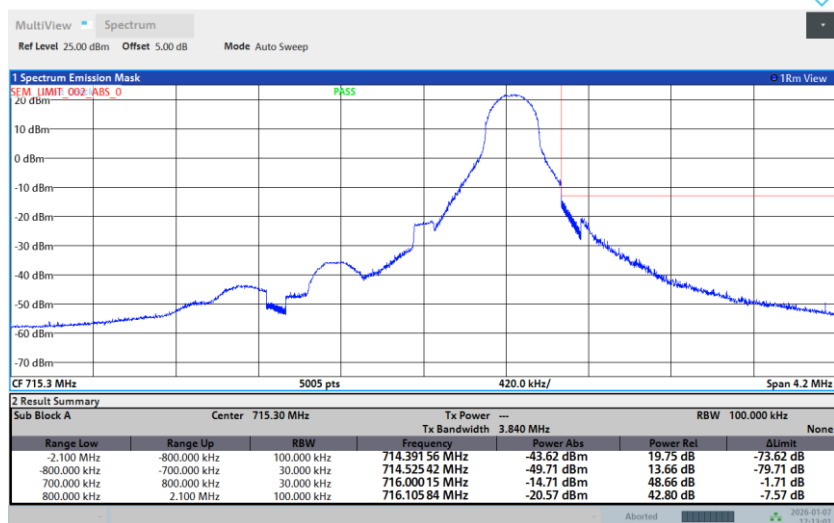
Graph9 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



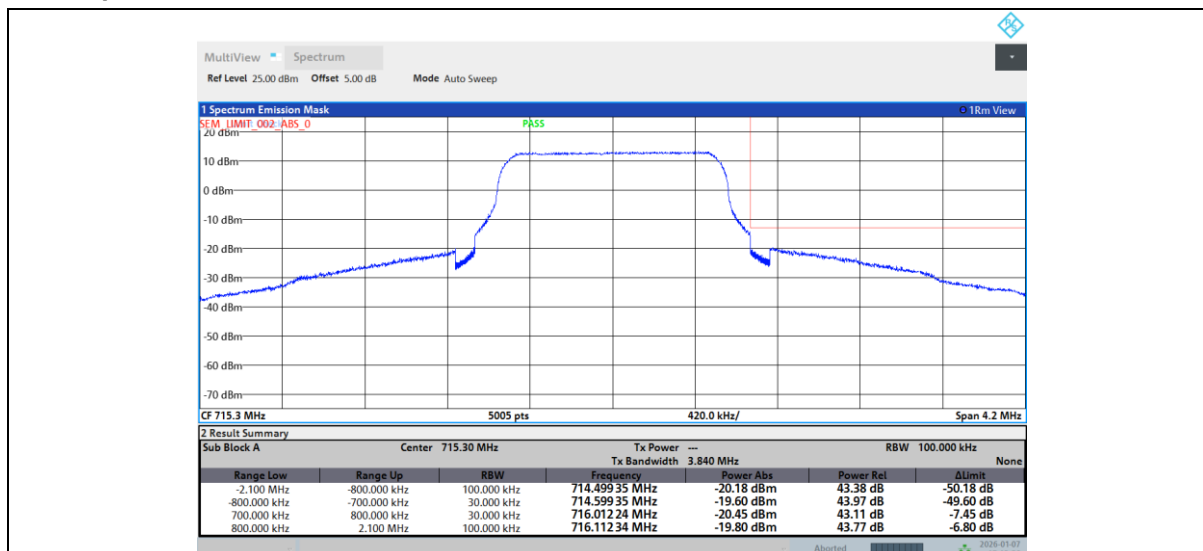
Graph10 HIGH BAND EDGE BLOCK-1.4MHz-100%RB



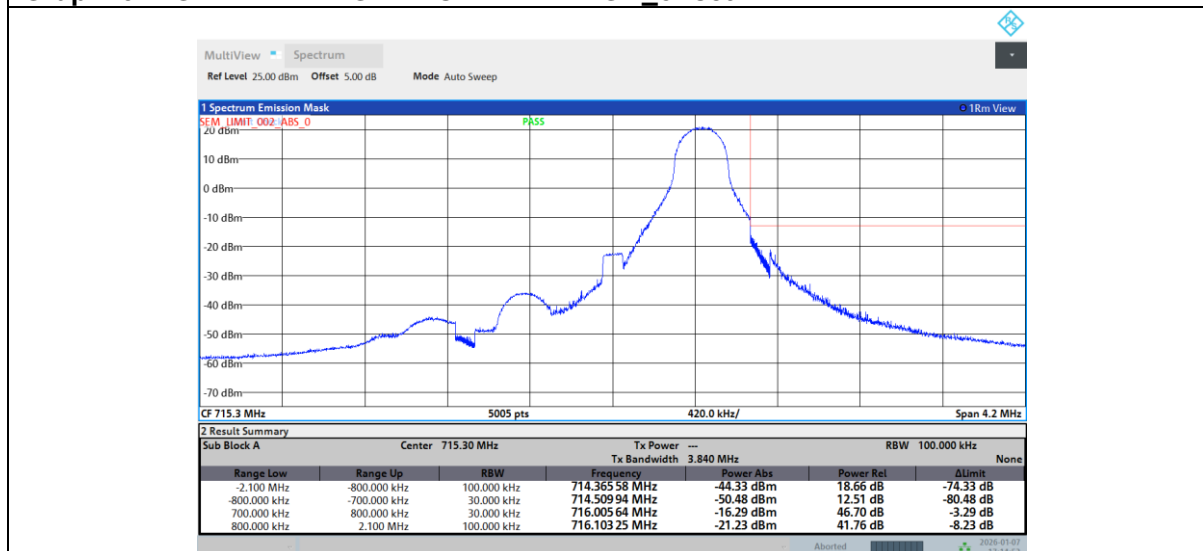
Graph11 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Graph12 HIGH BAND EDGE BLOCK-1.4MHz-100%RB



Graph13 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Graph14 HIGH BAND EDGE BLOCK-1.4MHz-100%RB

