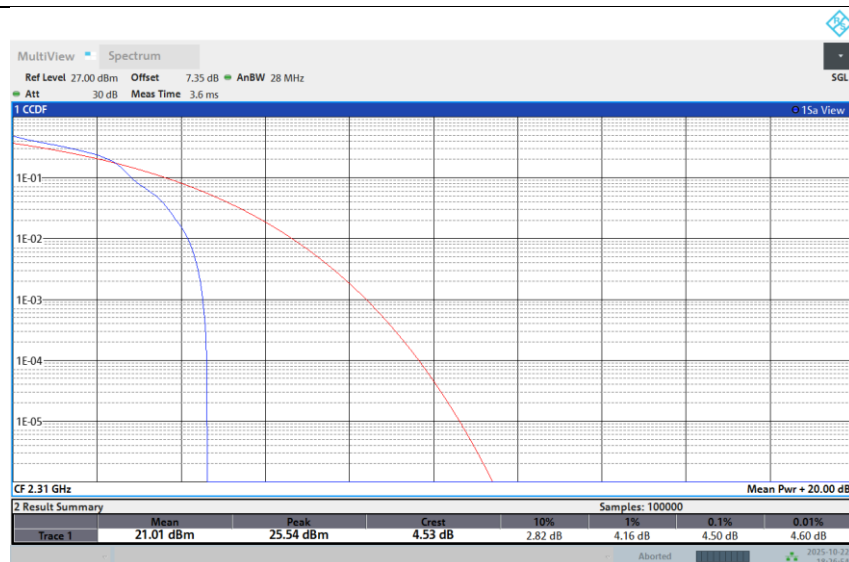
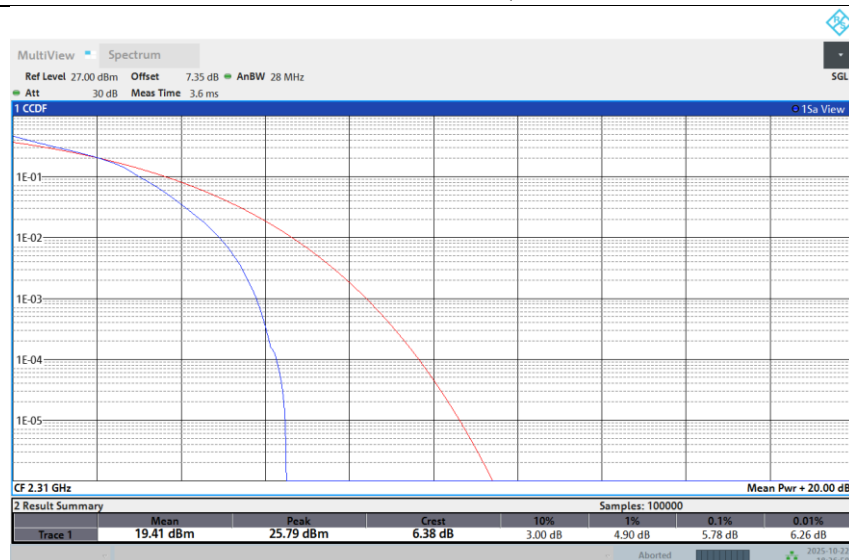
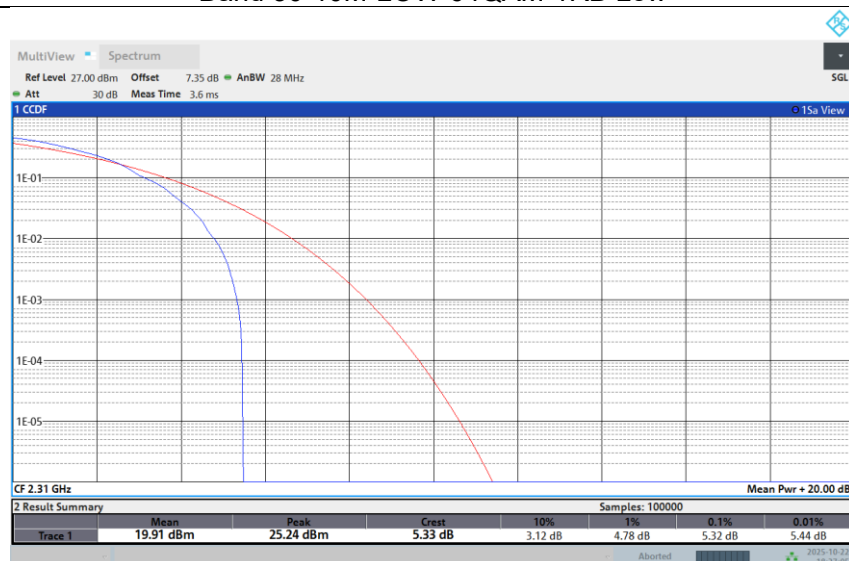




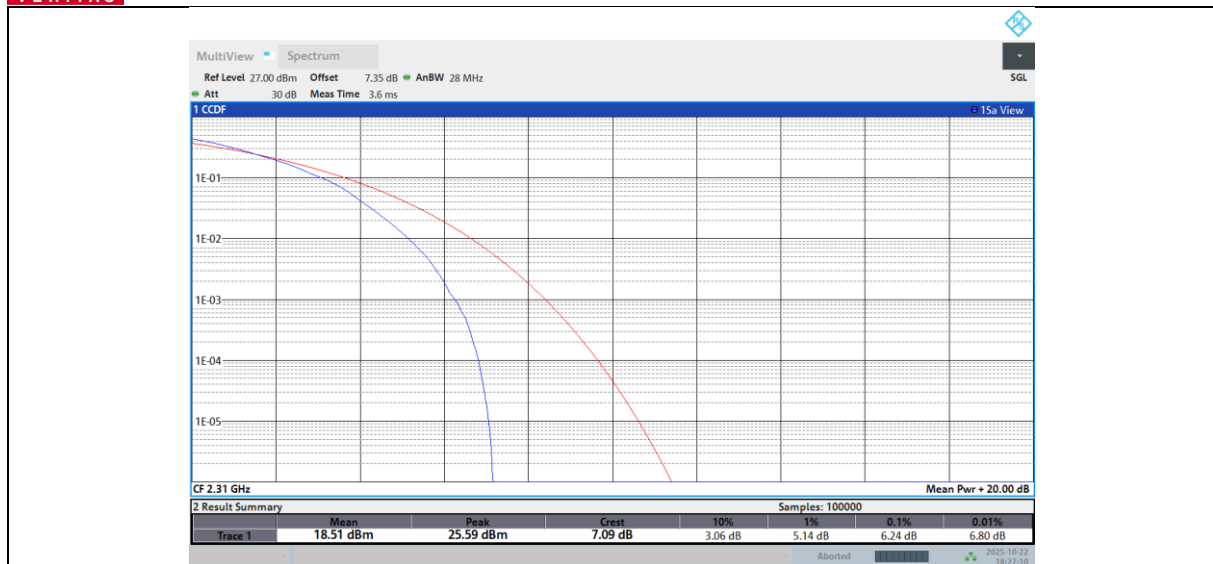
Band 30-10M-LOW-16QAM-Full RB



Band 30-10M-LOW-64QAM-1RB Low



Band 30-10M-LOW-64QAM-Full RB





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

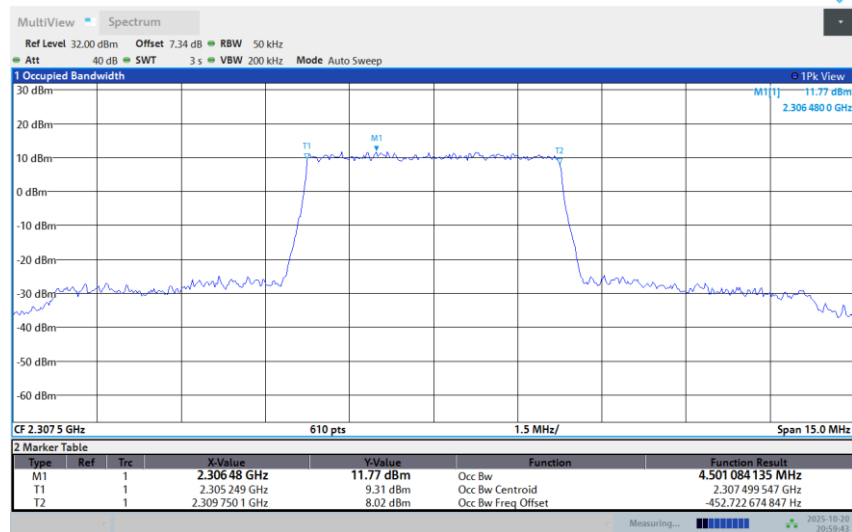
Test Result

Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth(MHz)	Verdict
5MHz	QPSK	27685	Full RB	4.501	PASS
5MHz	16QAM	27685	Full RB	4.486	PASS
5MHz	64QAM	27685	Full RB	4.484	PASS
5MHz	QPSK	27710	Full RB	4.493	PASS
5MHz	16QAM	27710	Full RB	4.501	PASS
5MHz	64QAM	27710	Full RB	4.490	PASS
5MHz	QPSK	27735	Full RB	4.479	PASS
5MHz	16QAM	27735	Full RB	4.494	PASS
5MHz	64QAM	27735	Full RB	4.475	PASS
10MHz	QPSK	27710	Full RB	8.968	PASS
10MHz	16QAM	27710	Full RB	8.964	PASS
10MHz	64QAM	27710	Full RB	8.946	PASS

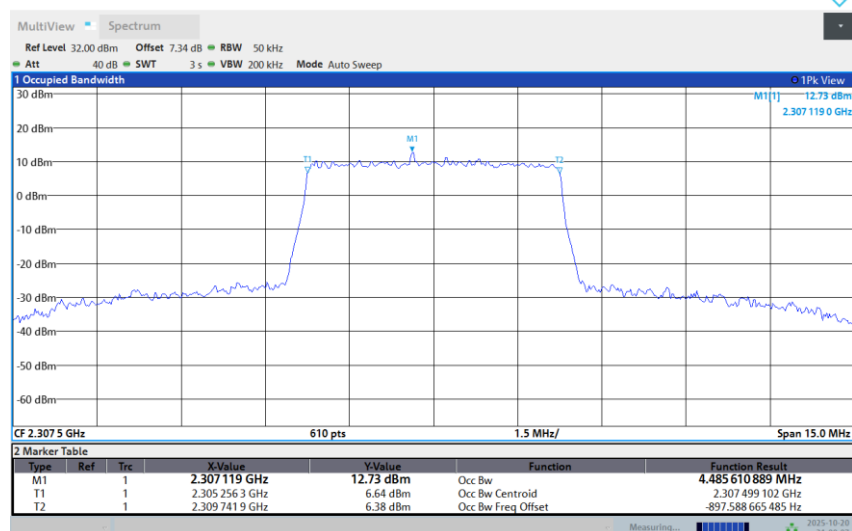


Test Graphs

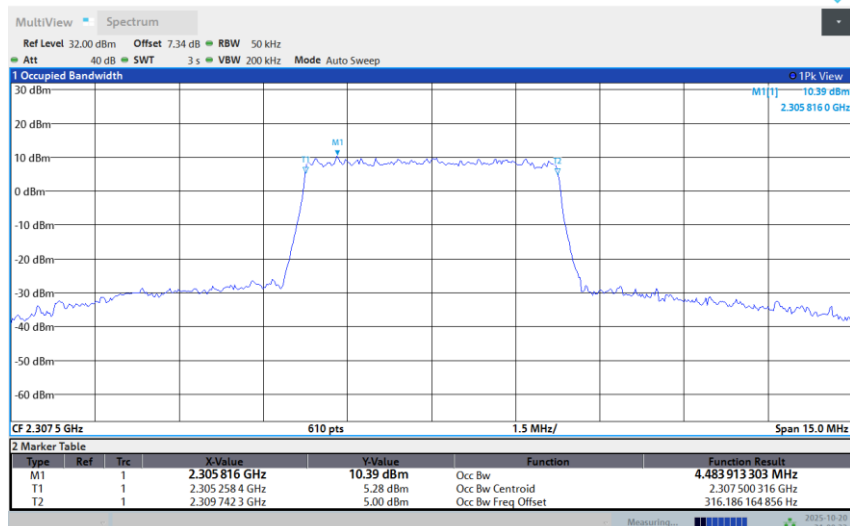
Band 30-5M-LOW-QPSK-Full RB



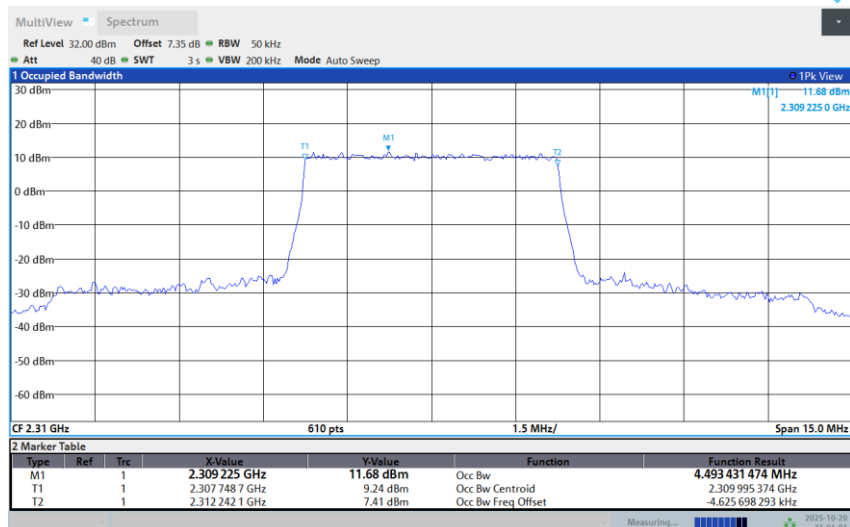
Band 30-5M-LOW-16QAM-Full RB



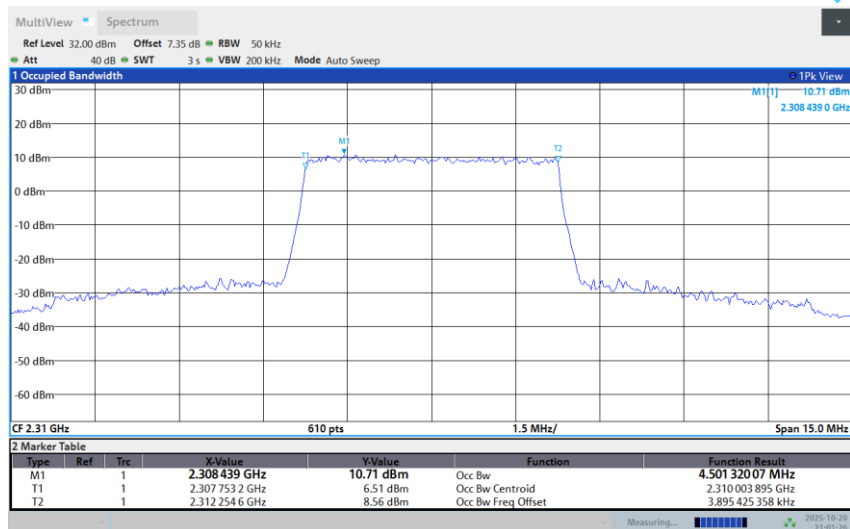
Band 30-5M-LOW-64QAM-Full RB



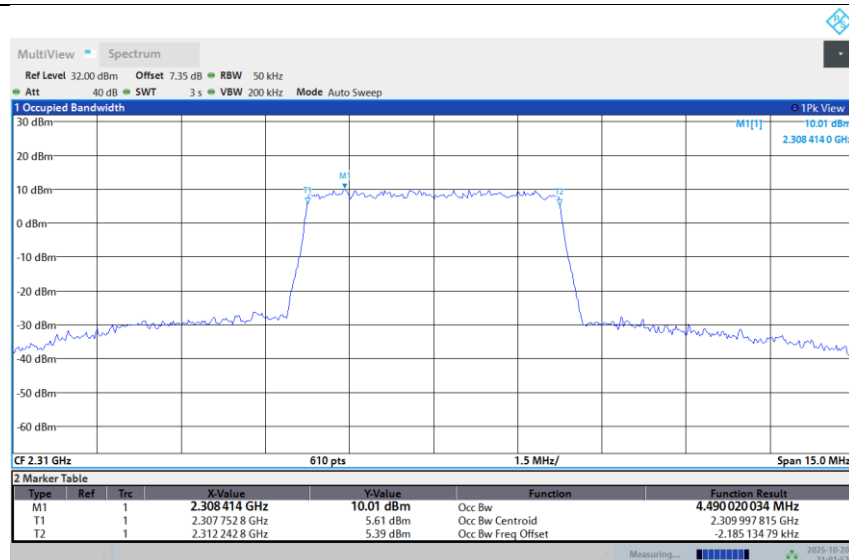
Band 30-5M-MID-QPSK-Full RB



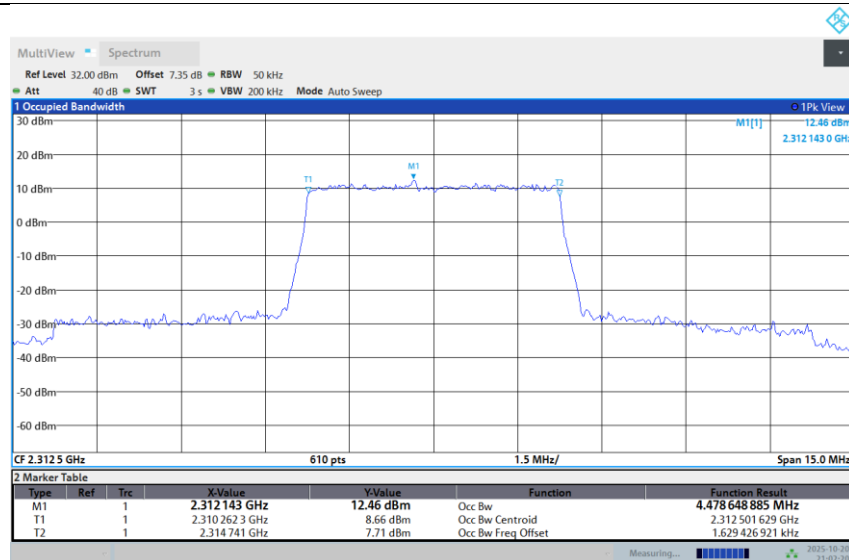
Band 30-5M-MID-16QAM-Full RB



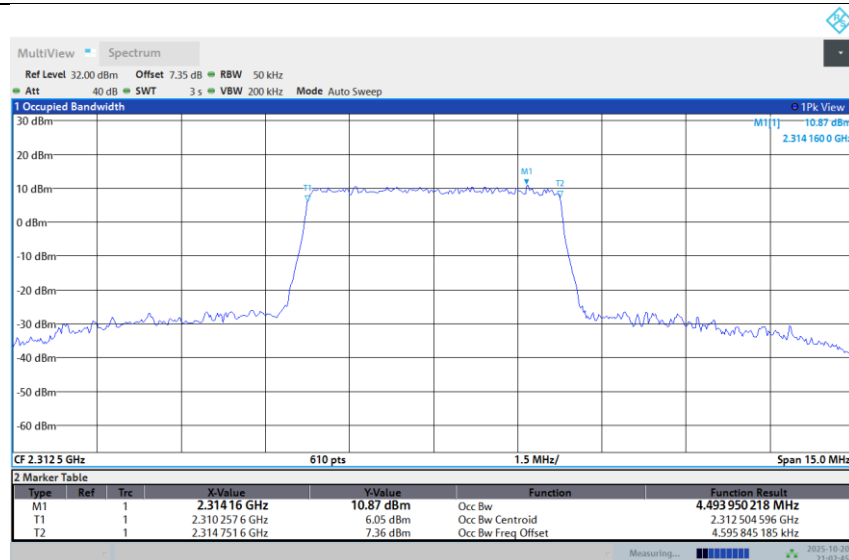
Band 30-5M-MID-64QAM-Full RB



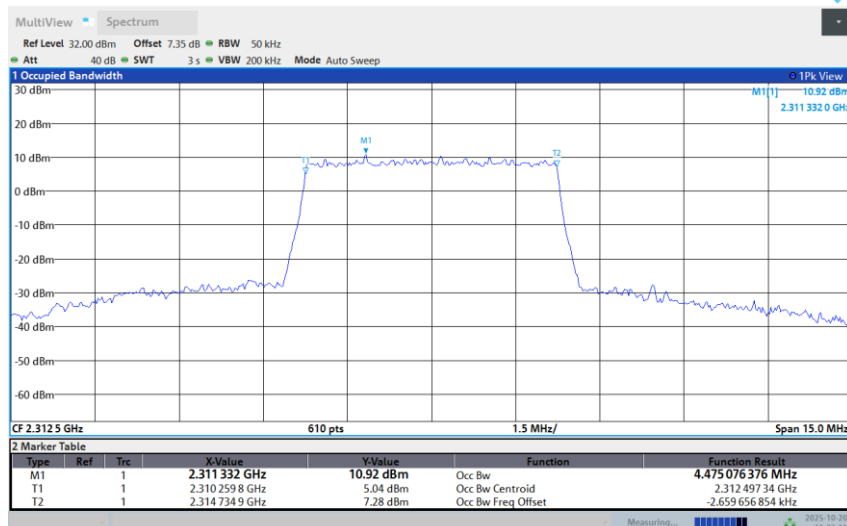
Band 30-5M-HIGH-QPSK-Full RB



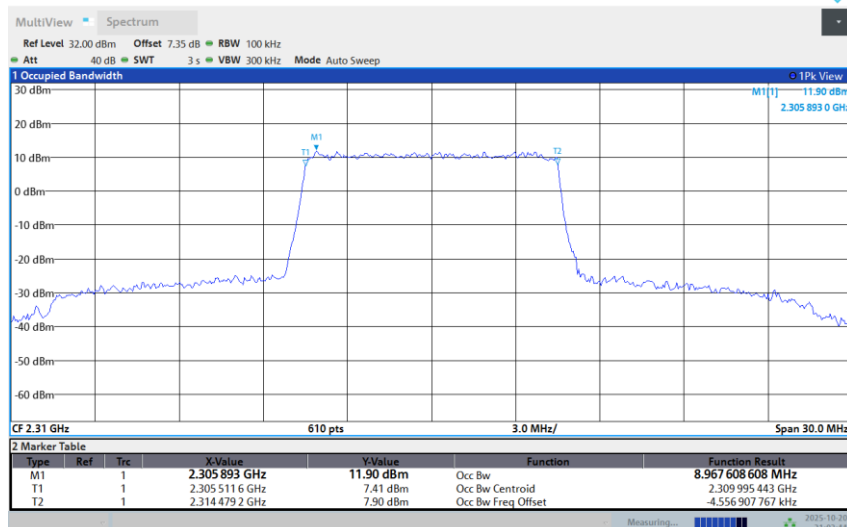
Band 30-5M-HIGH-16QAM-Full RB



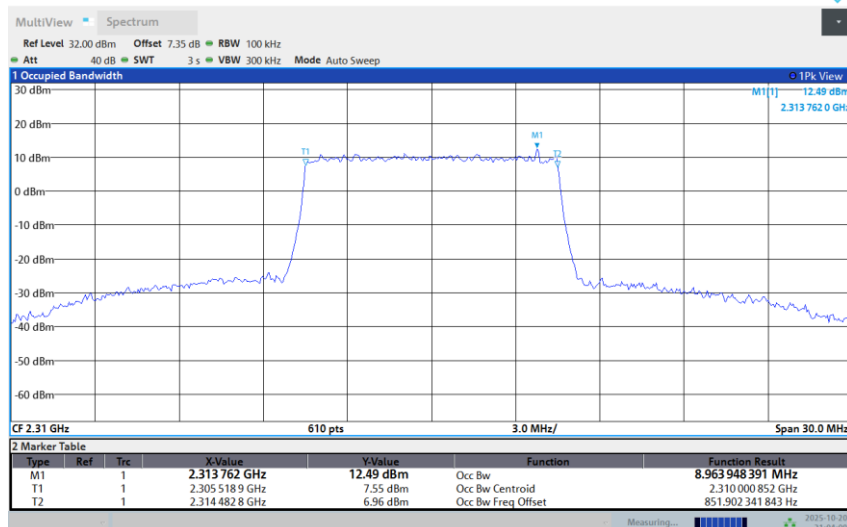
Band 30-5M-HIGH-64QAM-Full RB



Band 30-10M-LOW-QPSK-Full RB



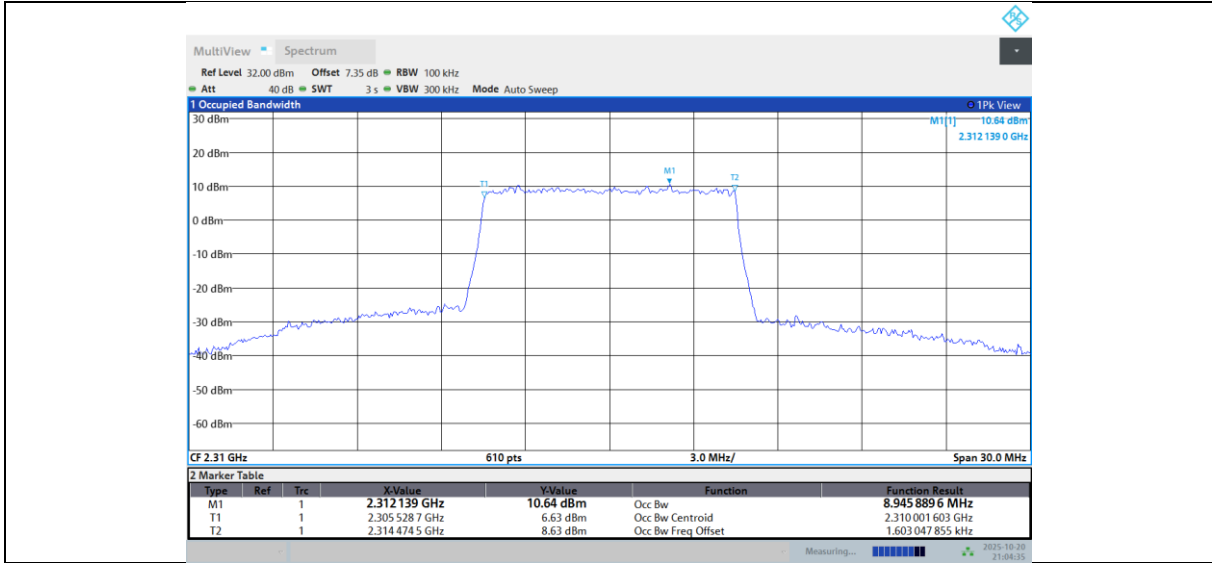
Band 30-10M-LOW-16QAM-Full RB



Band 30-10M-LOW-64QAM-Full RB



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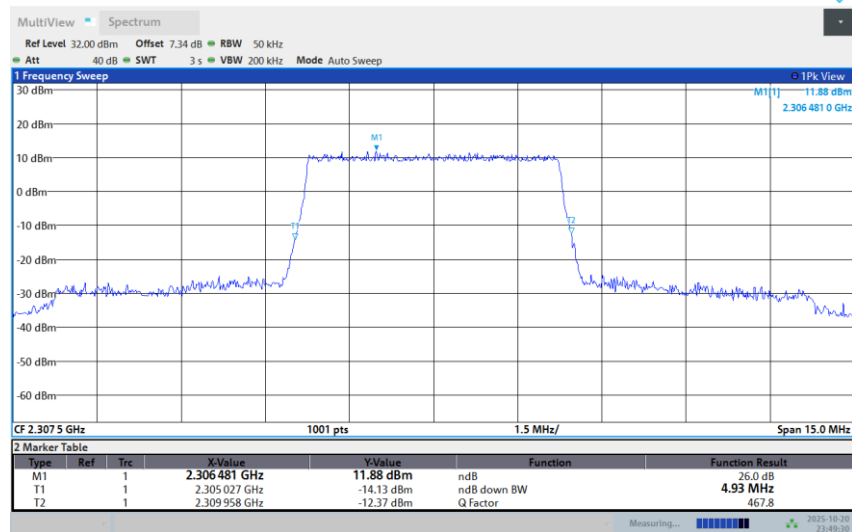
Test Result

Bandwidth	Modulation	Channel	RB Configuration	26dB Bandwidth(MHz)	Verdict
5MHz	QPSK	27685	Full RB	4.93	PASS
5MHz	16QAM	27685	Full RB	4.86	PASS
5MHz	64QAM	27685	Full RB	4.92	PASS
5MHz	QPSK	27710	Full RB	4.93	PASS
5MHz	16QAM	27710	Full RB	4.93	PASS
5MHz	64QAM	27710	Full RB	4.92	PASS
5MHz	QPSK	27735	Full RB	4.90	PASS
5MHz	16QAM	27735	Full RB	4.95	PASS
5MHz	64QAM	27735	Full RB	4.88	PASS
10MHz	QPSK	27710	Full RB	9.77	PASS
10MHz	16QAM	27710	Full RB	9.62	PASS
10MHz	64QAM	27710	Full RB	9.62	PASS

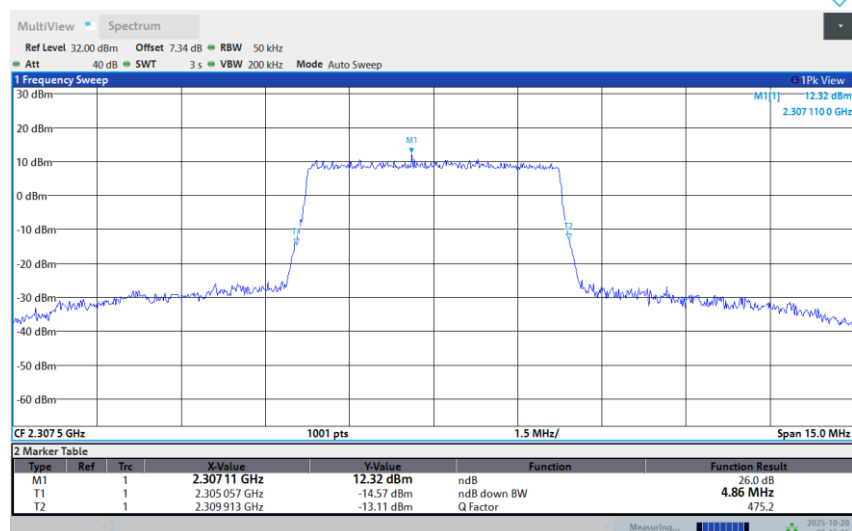


Test Graphs

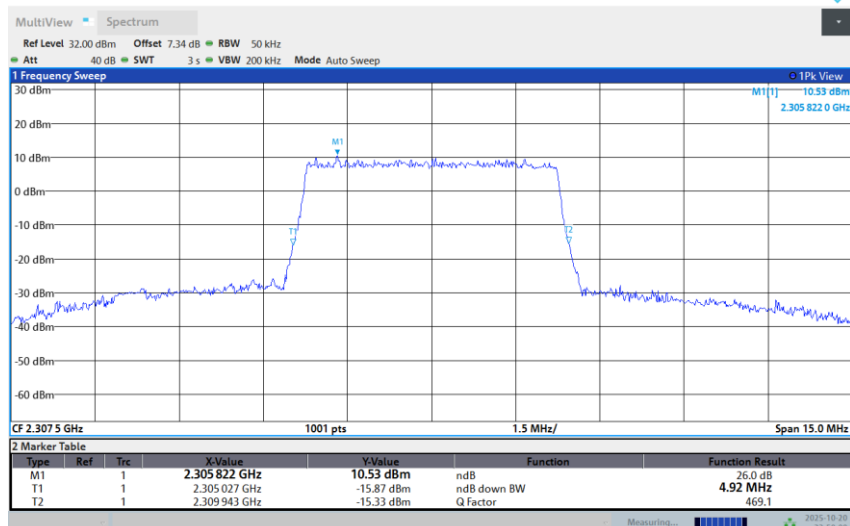
Band 30-5M-LOW-QPSK-Full RB



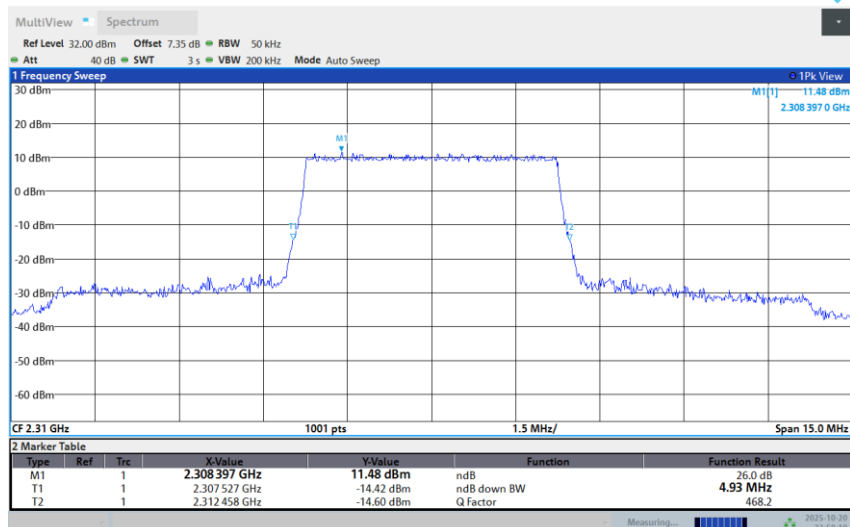
Band 30-5M-LOW-16QAM-Full RB



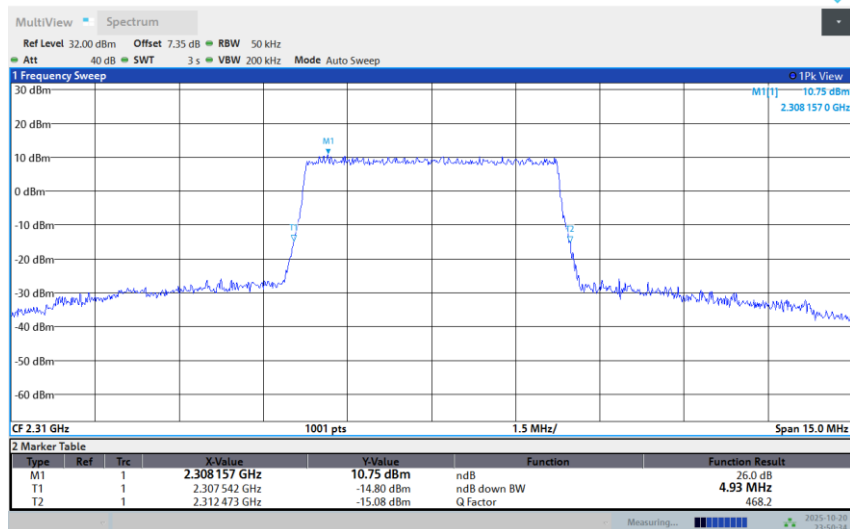
Band 30-5M-LOW-64QAM-Full RB



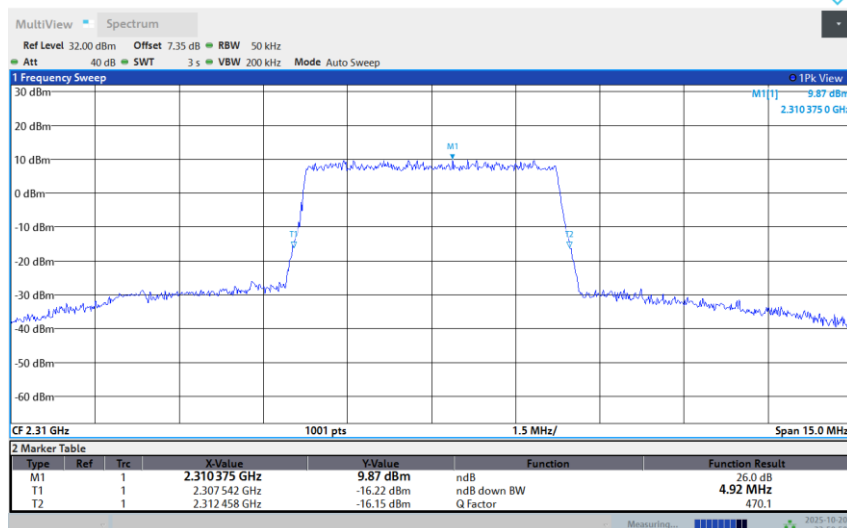
Band 30-5M-MID-QPSK-Full RB



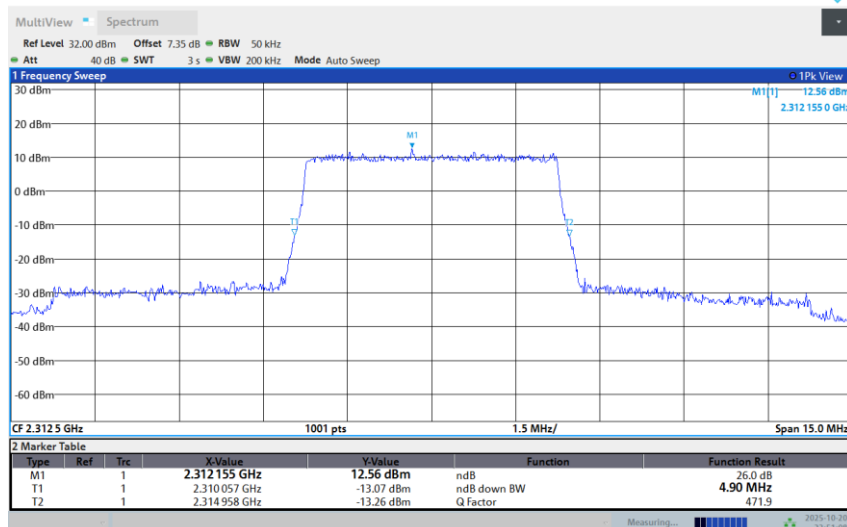
Band 30-5M-MID-16QAM-Full RB



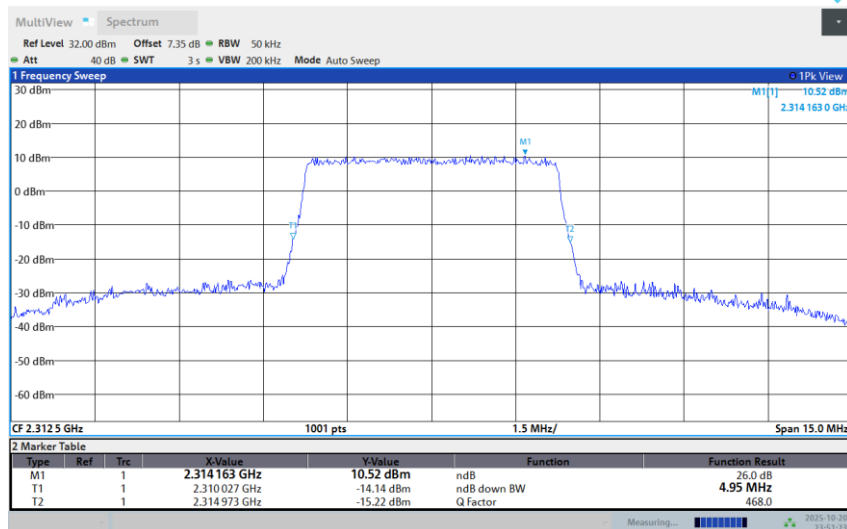
Band 30-5M-MID-64QAM-Full RB



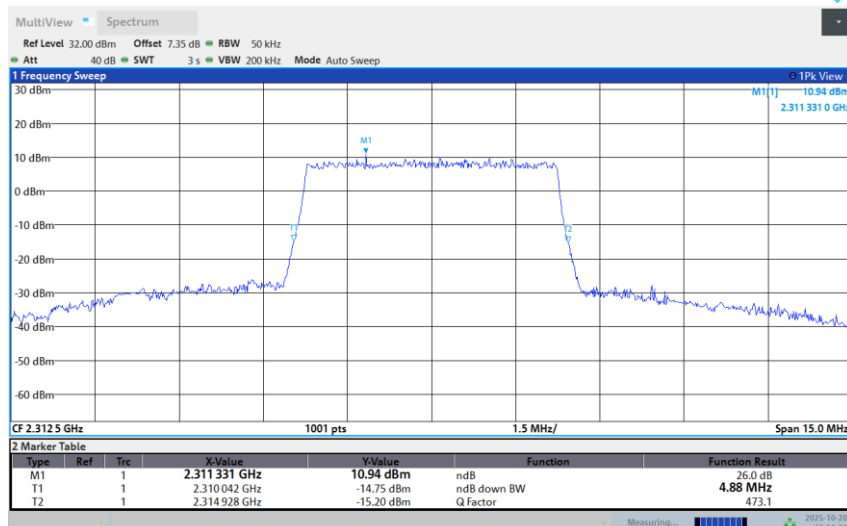
Band 30-5M-HIGH-QPSK-Full RB



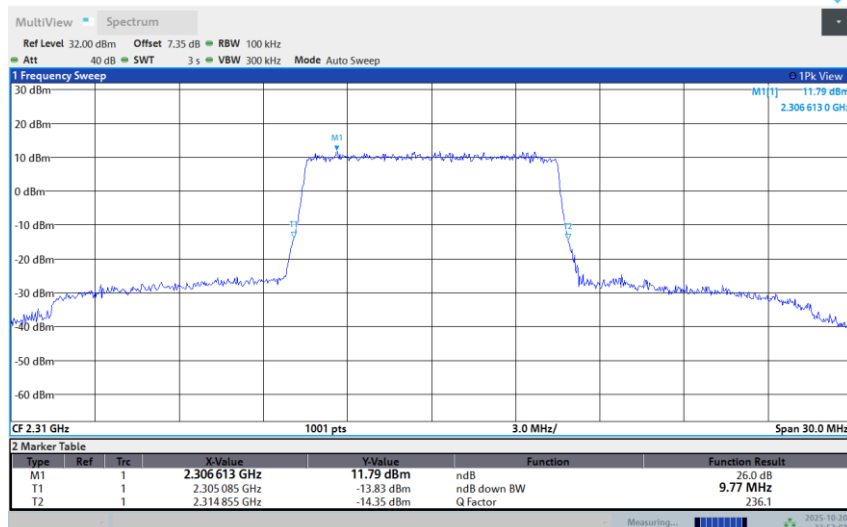
Band 30-5M-HIGH-16QAM-Full RB



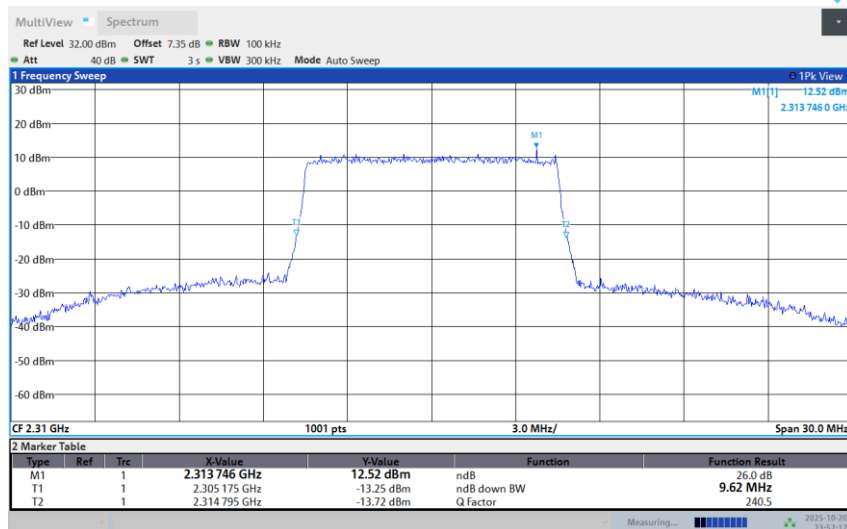
Band 30-5M-HIGH-64QAM-Full RB



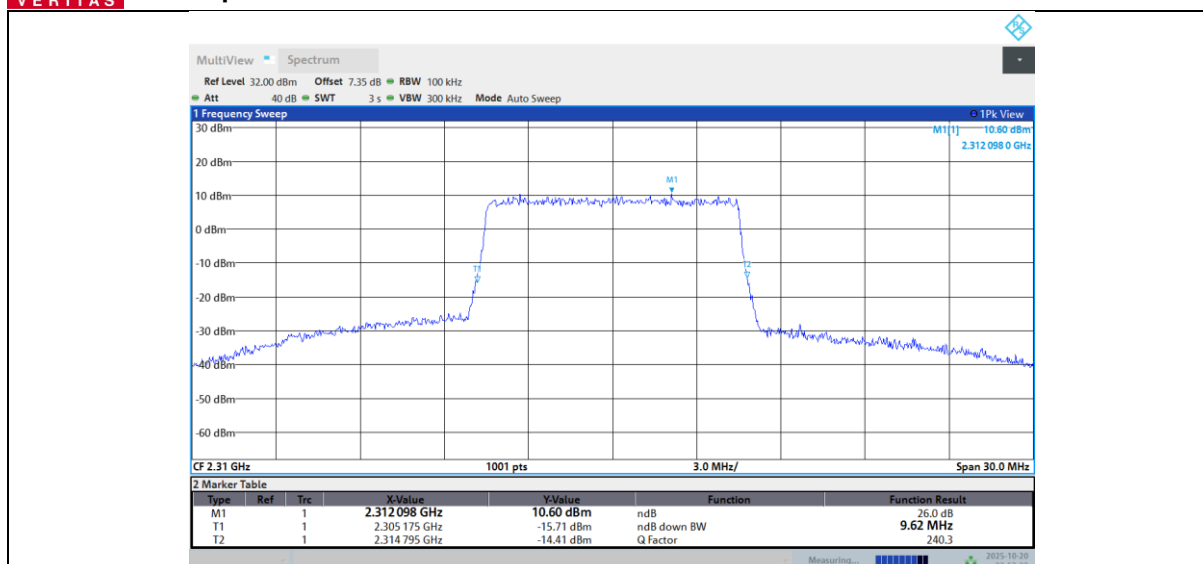
Band 30-10M-LOW-QPSK-Full RB



Band 30-10M-LOW-16QAM-Full RB



Band 30-10M-LOW-64QAM-Full RB





BAND EDGE

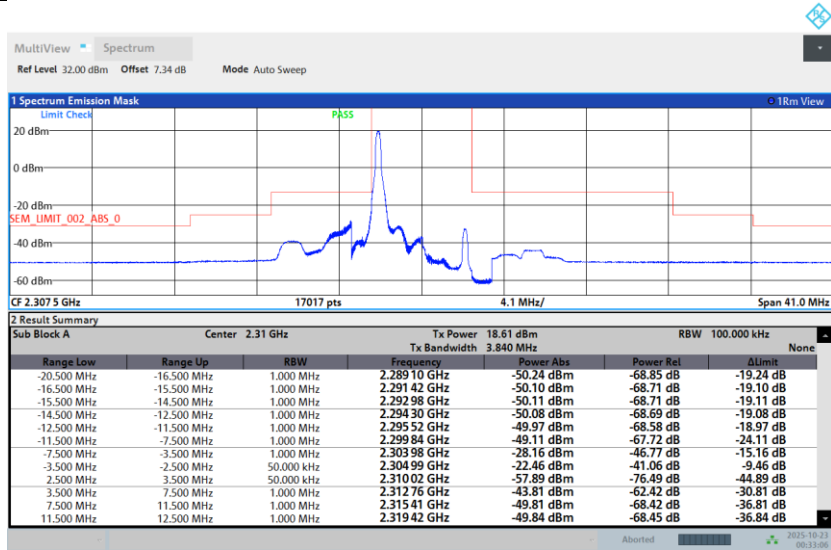
Test Result

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
5MHz	QPSK	27685	1RB Low	See Graph	PASS
5MHz	QPSK	27685	Full RB	See Graph	PASS
5MHz	16QAM	27685	1RB Low	See Graph	PASS
5MHz	16QAM	27685	Full RB	See Graph	PASS
5MHz	64QAM	27685	1RB Low	See Graph	PASS
5MHz	64QAM	27685	Full RB	See Graph	PASS
5MHz	QPSK	27735	1RB High	See Graph	PASS
5MHz	QPSK	27735	Full RB	See Graph	PASS
5MHz	16QAM	27735	1RB High	See Graph	PASS
5MHz	16QAM	27735	Full RB	See Graph	PASS
5MHz	64QAM	27735	1RB High	See Graph	PASS
5MHz	64QAM	27735	Full RB	See Graph	PASS
10MHz	QPSK	27710	1RB Low	See Graph	PASS
10MHz	QPSK	27710	Full RB	See Graph	PASS
10MHz	16QAM	27710	1RB Low	See Graph	PASS
10MHz	16QAM	27710	Full RB	See Graph	PASS
10MHz	64QAM	27710	1RB Low	See Graph	PASS
10MHz	64QAM	27710	Full RB	See Graph	PASS
10MHz	QPSK	27710	1RB High	See Graph	PASS
10MHz	QPSK	27710	1RB High	See Graph	PASS
10MHz	QPSK	27710	1RB High	See Graph	PASS

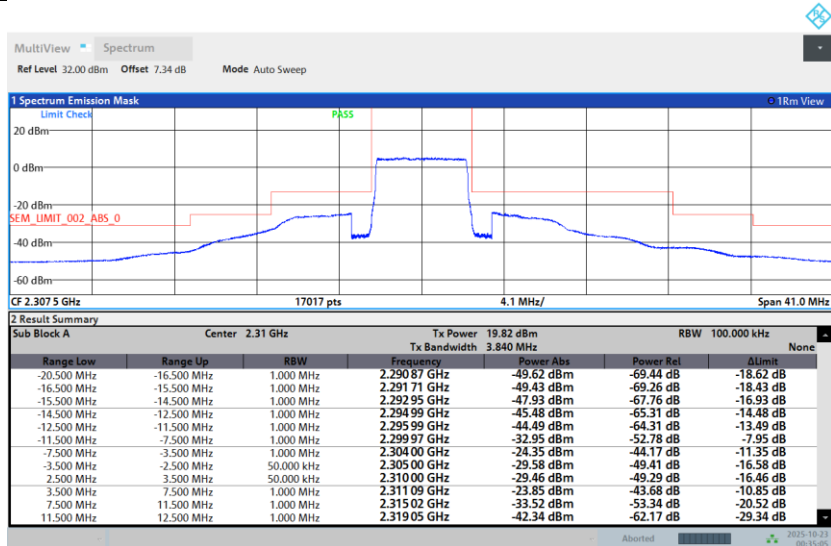


Test Graphs

Graph1 LOW BAND EDGE BLOCK-1RB-LOW_offset



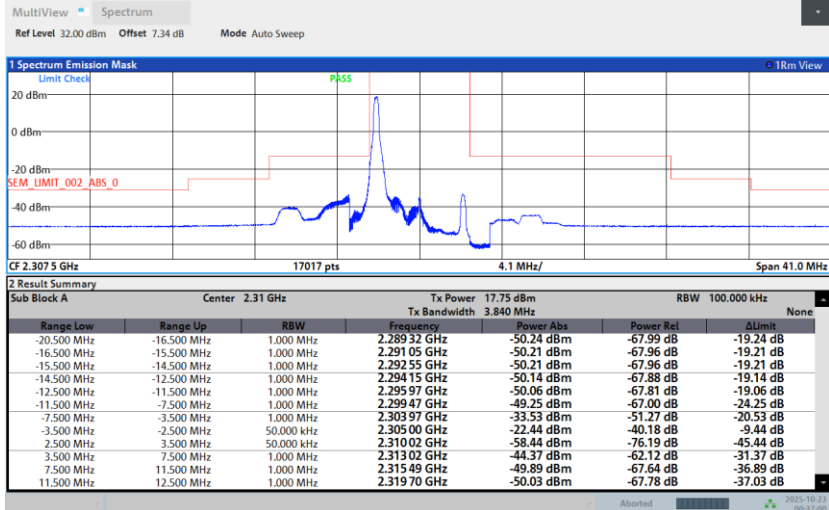
Graph2 LOW BAND EDGE BLOCK-5MHz-100%RB



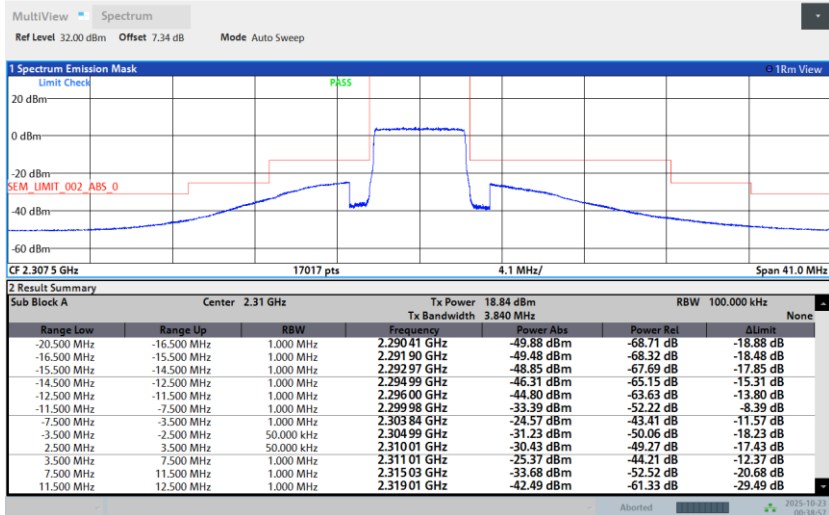
Graph3 LOW BAND EDGE BLOCK-1RB-LOW_offset



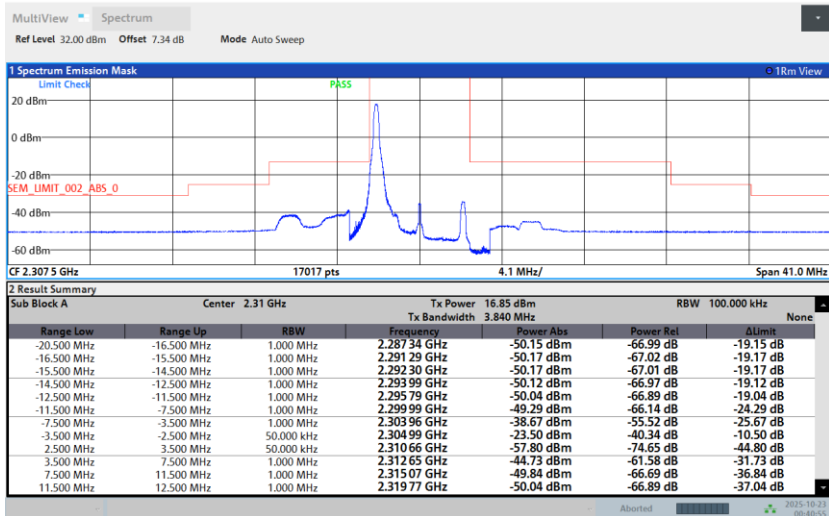
Test Report No.: PSU-NQN2509250114RF09



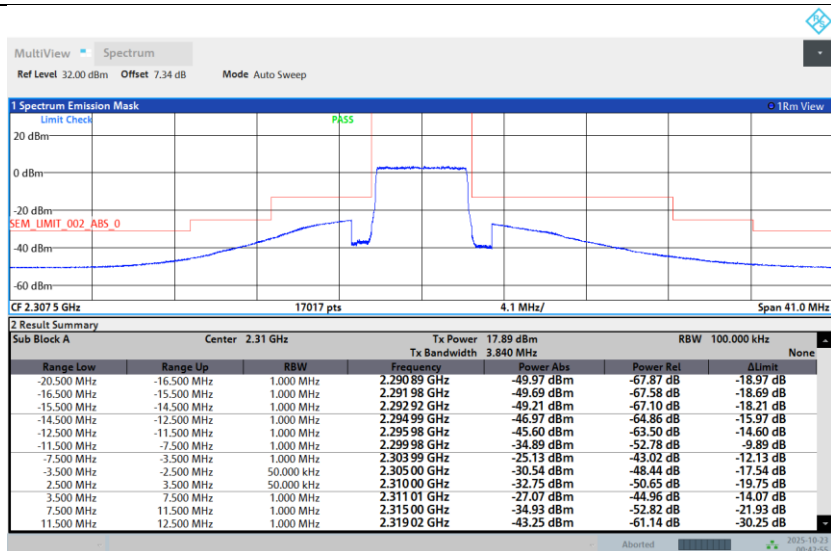
Graph4 LOW BAND EDGE BLOCK-5MHz-100%RB



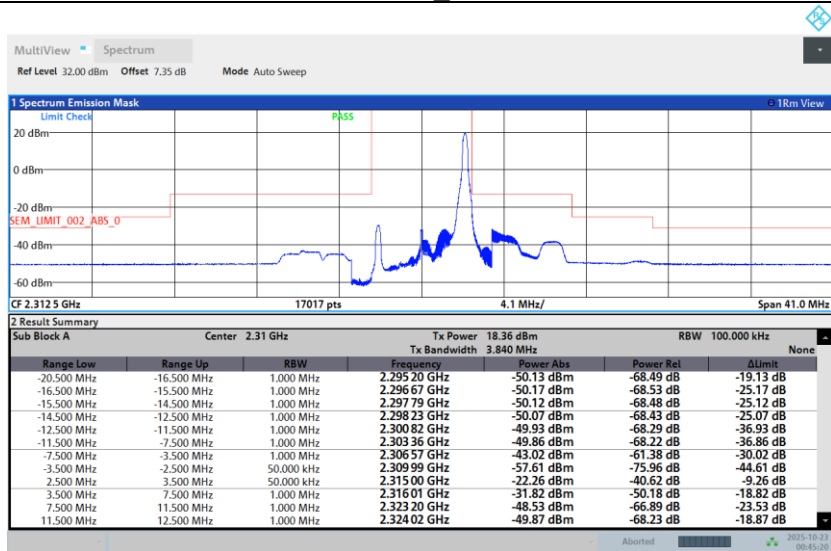
Graph5 LOW BAND EDGE BLOCK-1RB-LOW_offset



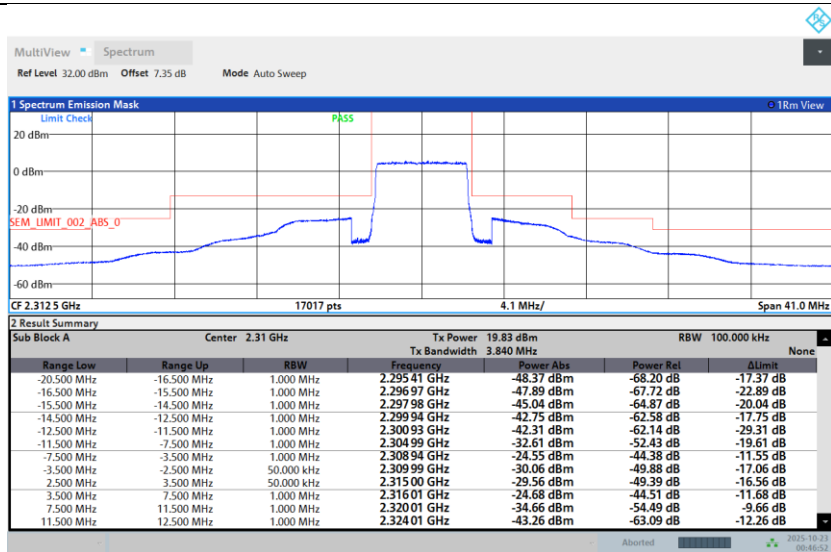
Graph6 LOW BAND EDGE BLOCK-5MHz-100%RB



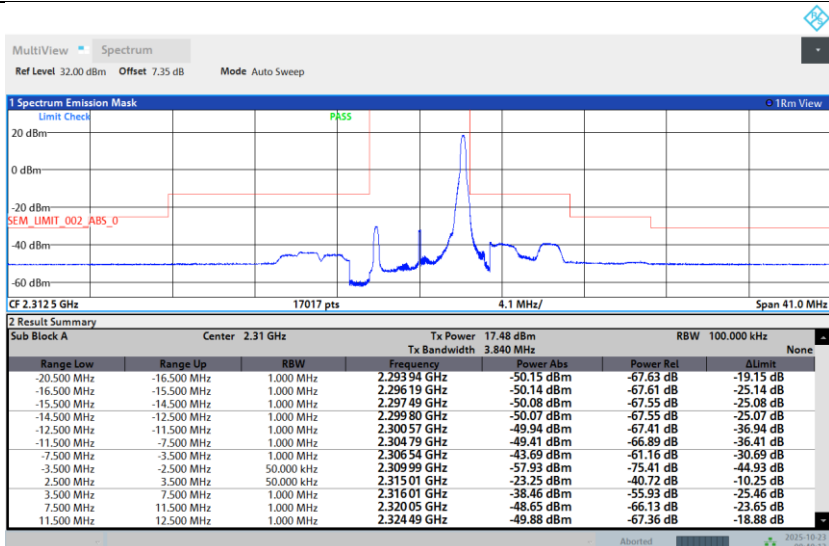
Graph7 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



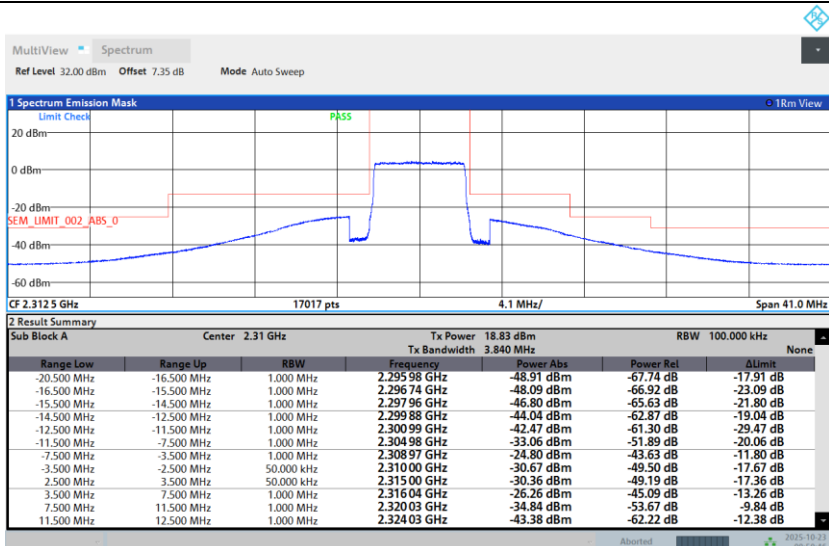
Graph8 HIGH BAND EDGE BLOCK-5MHz-100%RB



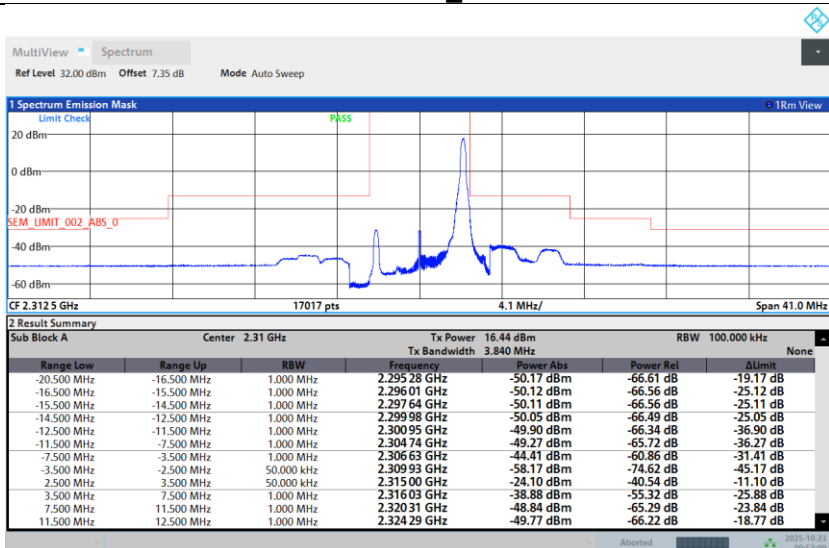
Graph9 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



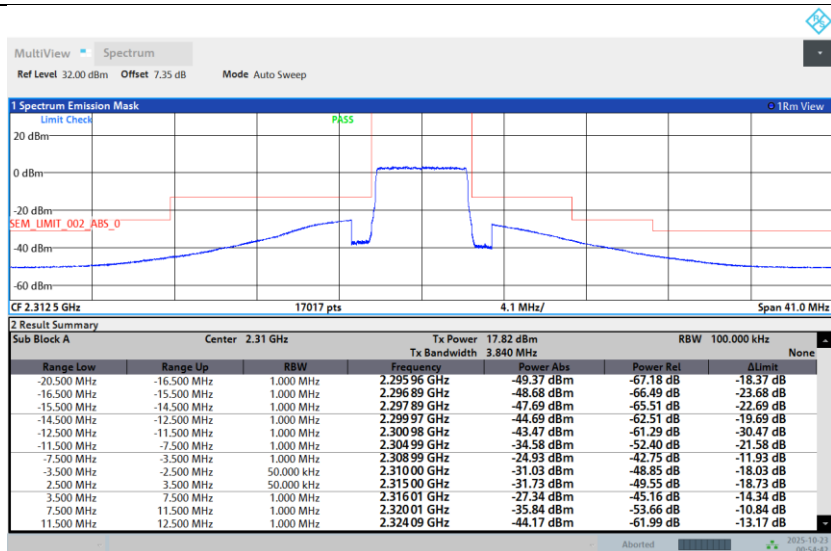
Graph10 HIGH BAND EDGE BLOCK-5MHz-100%RB



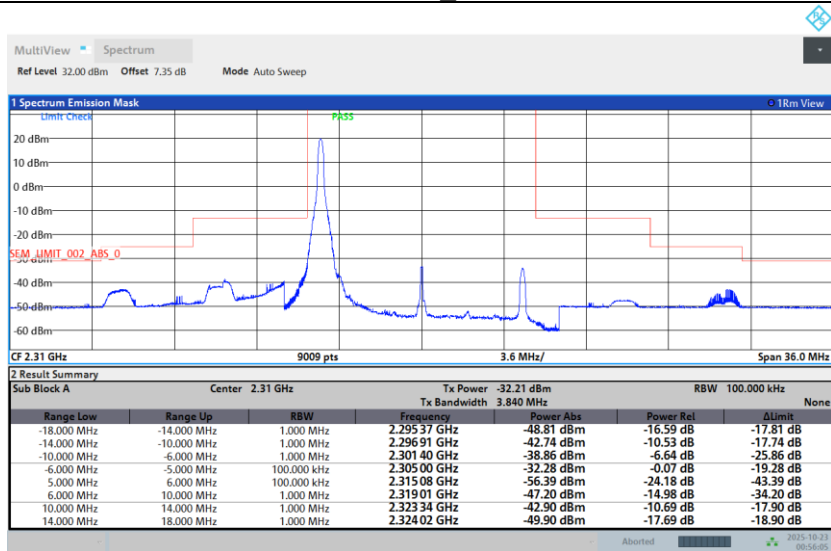
Graph11 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



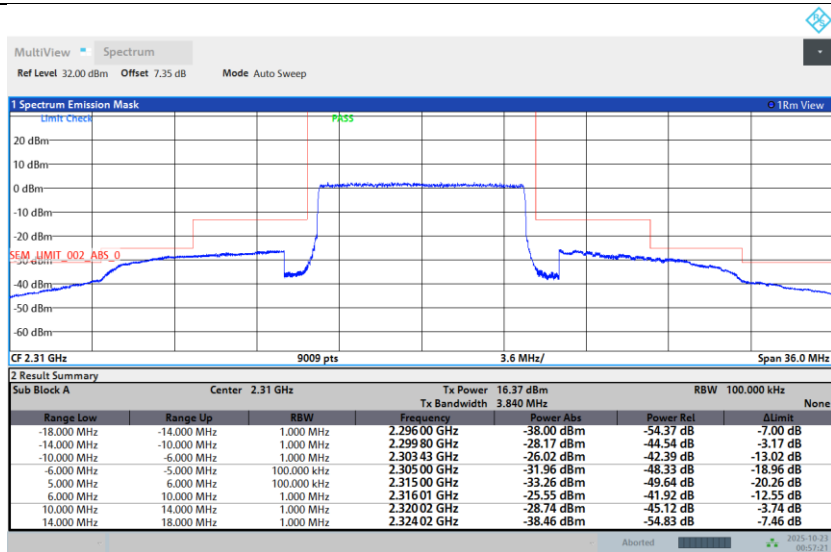
Graph12 HIGH BAND EDGE BLOCK-5MHz-100%RB



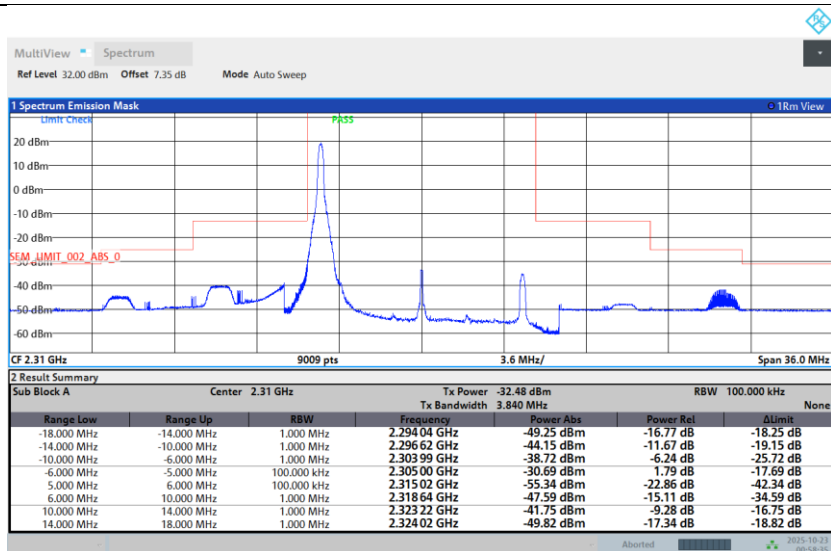
Graph13 LOW BAND EDGE BLOCK-1RB-LOW_offset



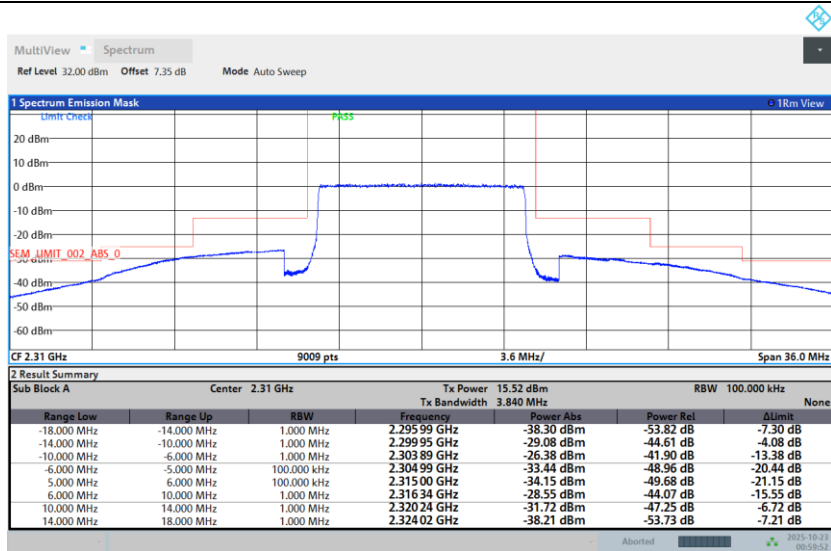
Graph14 LOW BAND EDGE BLOCK-10MHz-100%RB



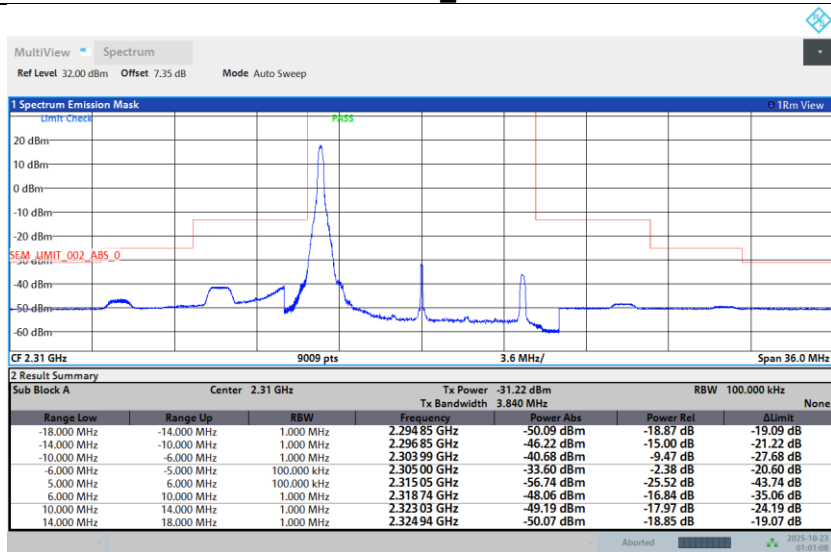
Graph15 LOW BAND EDGE BLOCK-1RB-LOW_offset



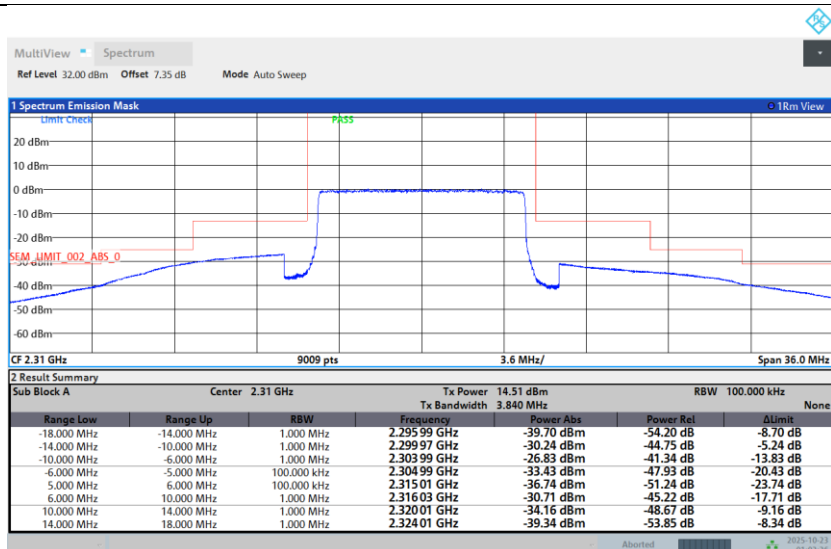
Graph16 LOW BAND EDGE BLOCK-10MHz-100%RB



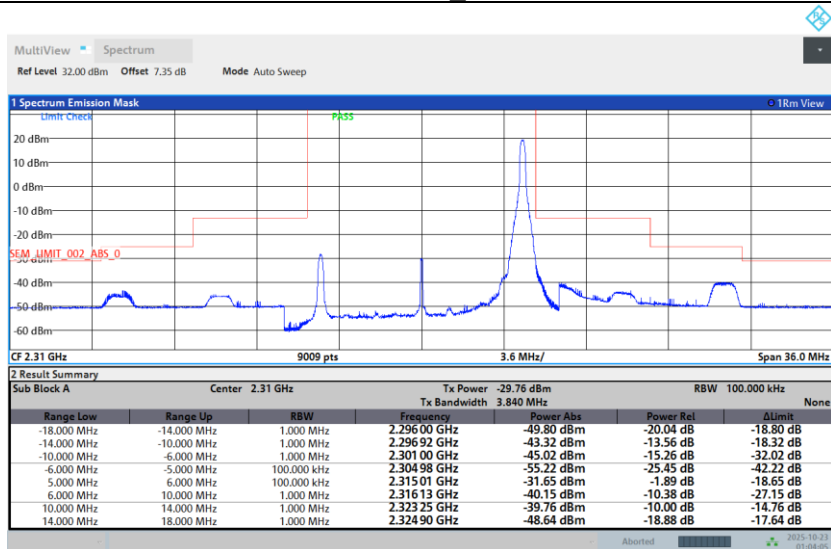
Graph17 LOW BAND EDGE BLOCK-1RB-LOW_offset



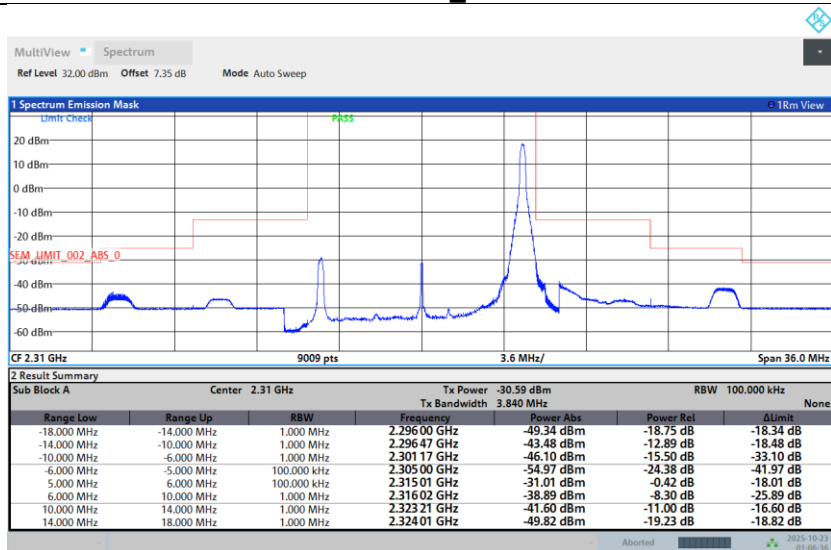
Graph18 LOW BAND EDGE BLOCK-10MHz-100%RB



Graph19 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



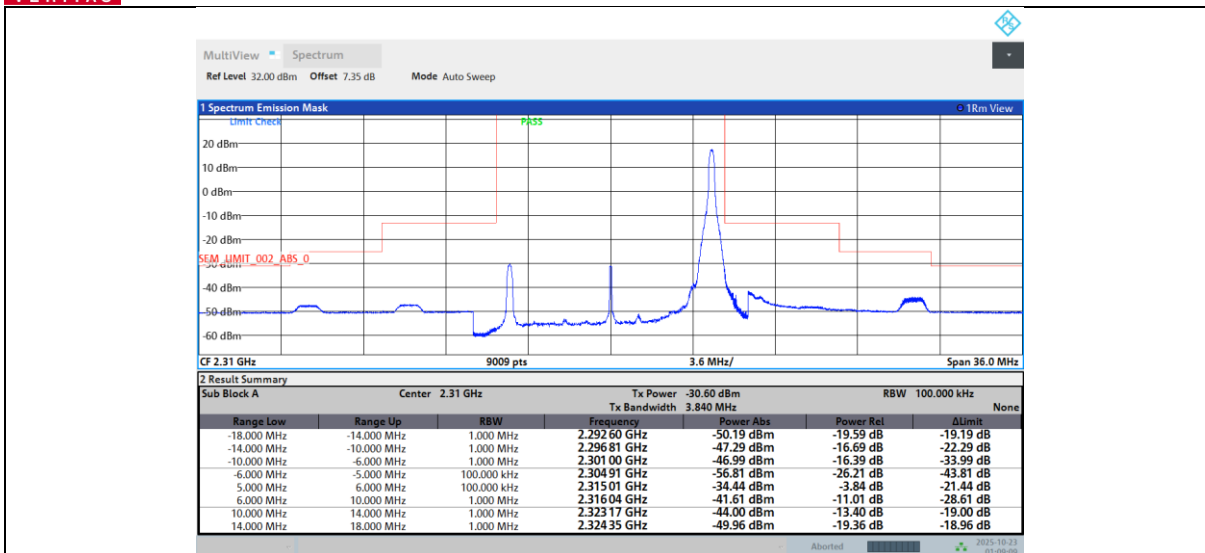
Graph20 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Graph21 HIGH BAND EDGE BLOCK-1RB-HIGH_offset



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CONDUCTED SPURIOUS EMISSION

Test Result

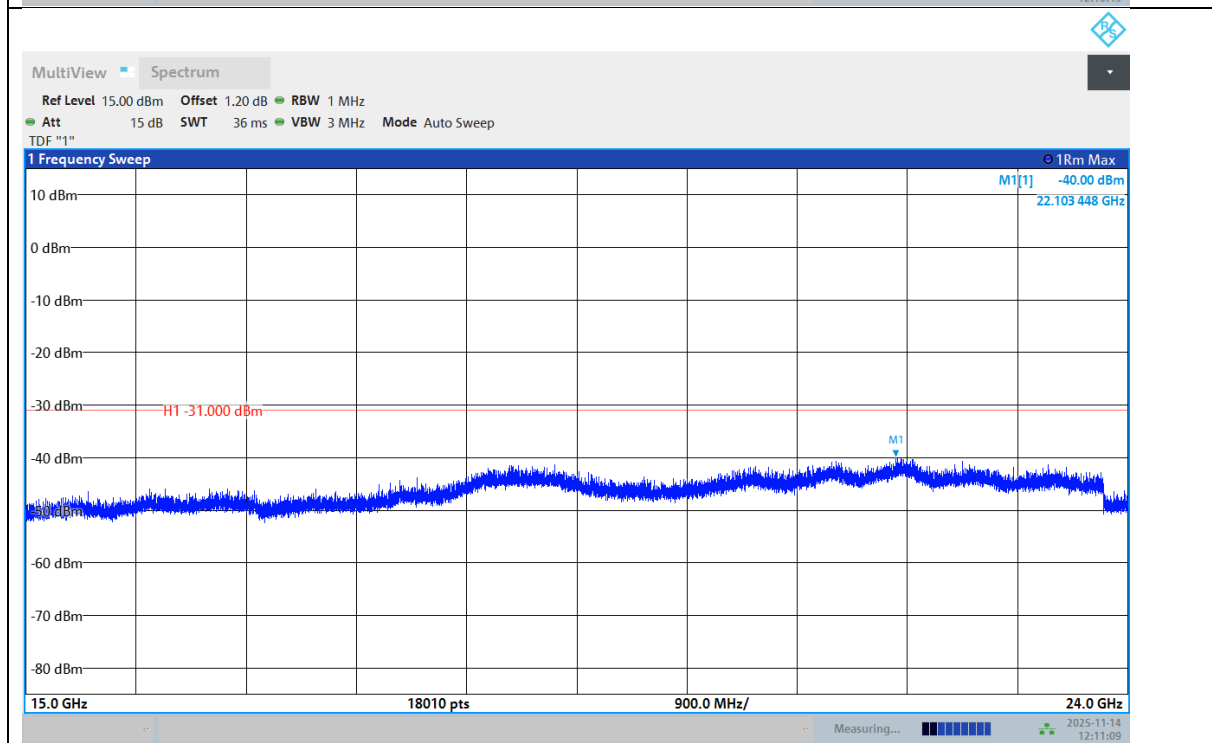
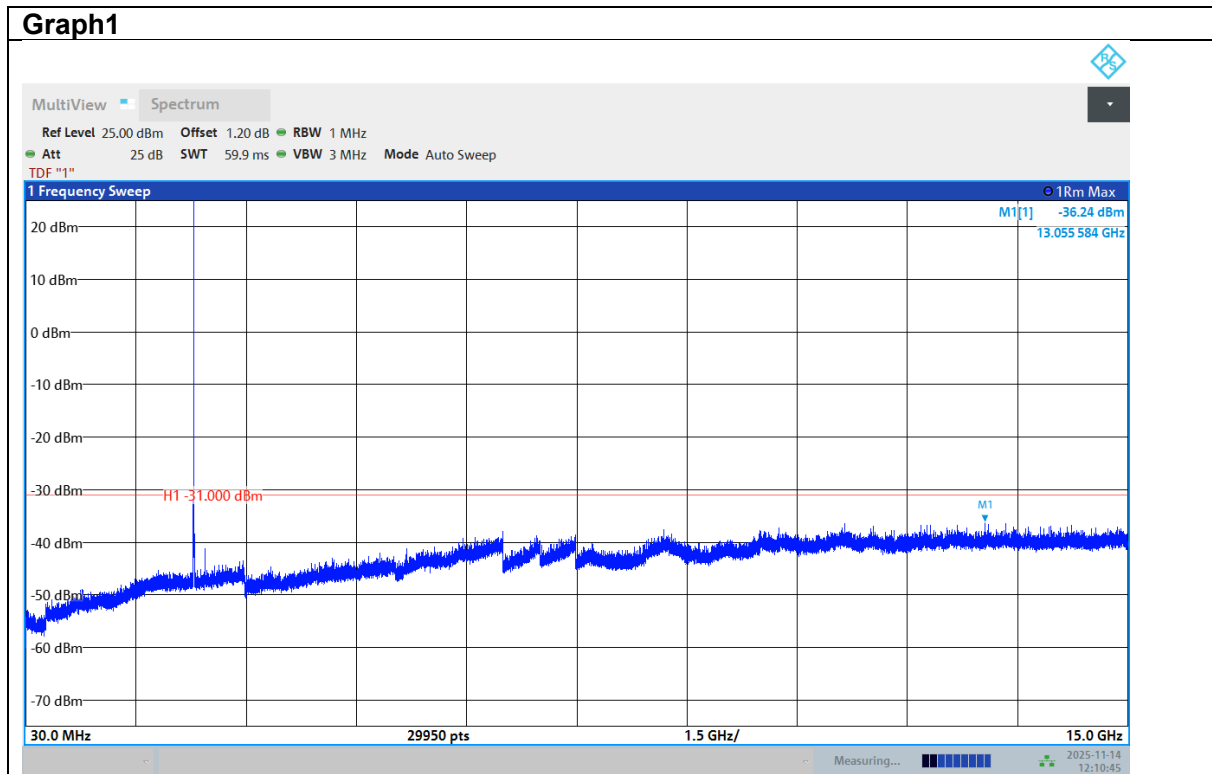
LTE band 30

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
5MHz	QPSK	27685	1RB Low	See Graph1	PASS
5MHz	QPSK	27710	1RB Low	See Graph2	PASS
5MHz	QPSK	27735	1RB Low	See Graph3	PASS
10MHz	QPSK	27710	1RB Low	See Graph4	PASS

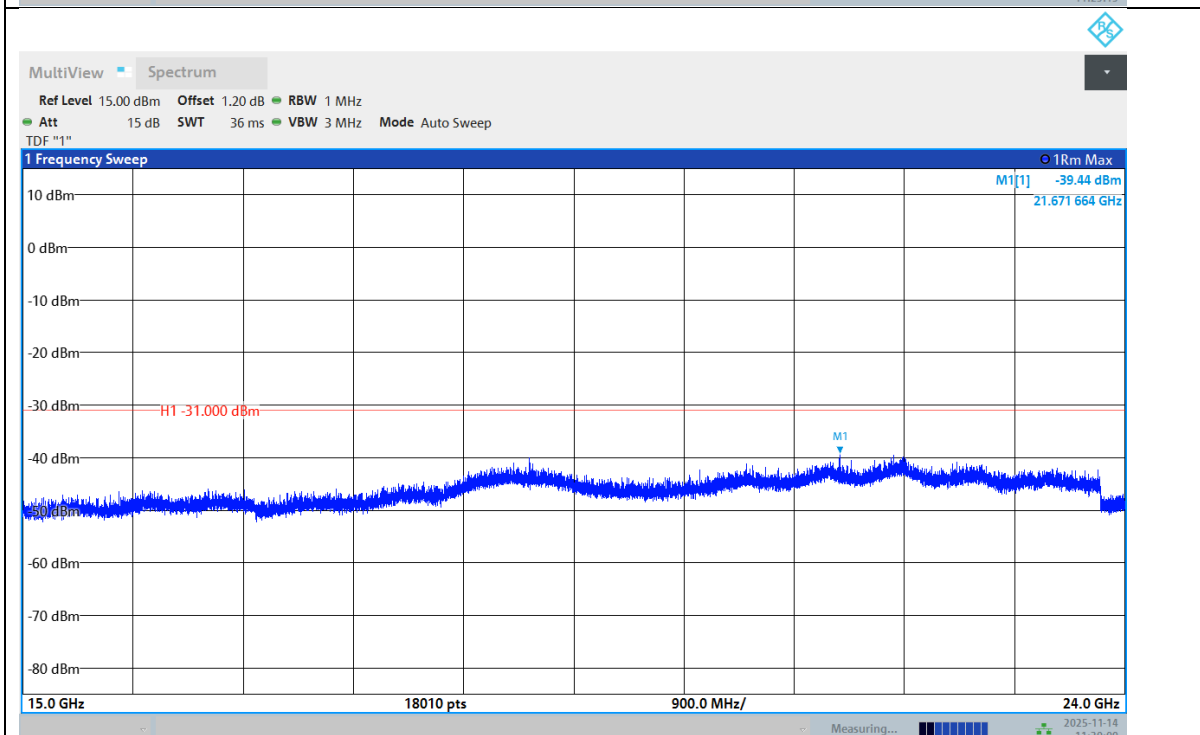
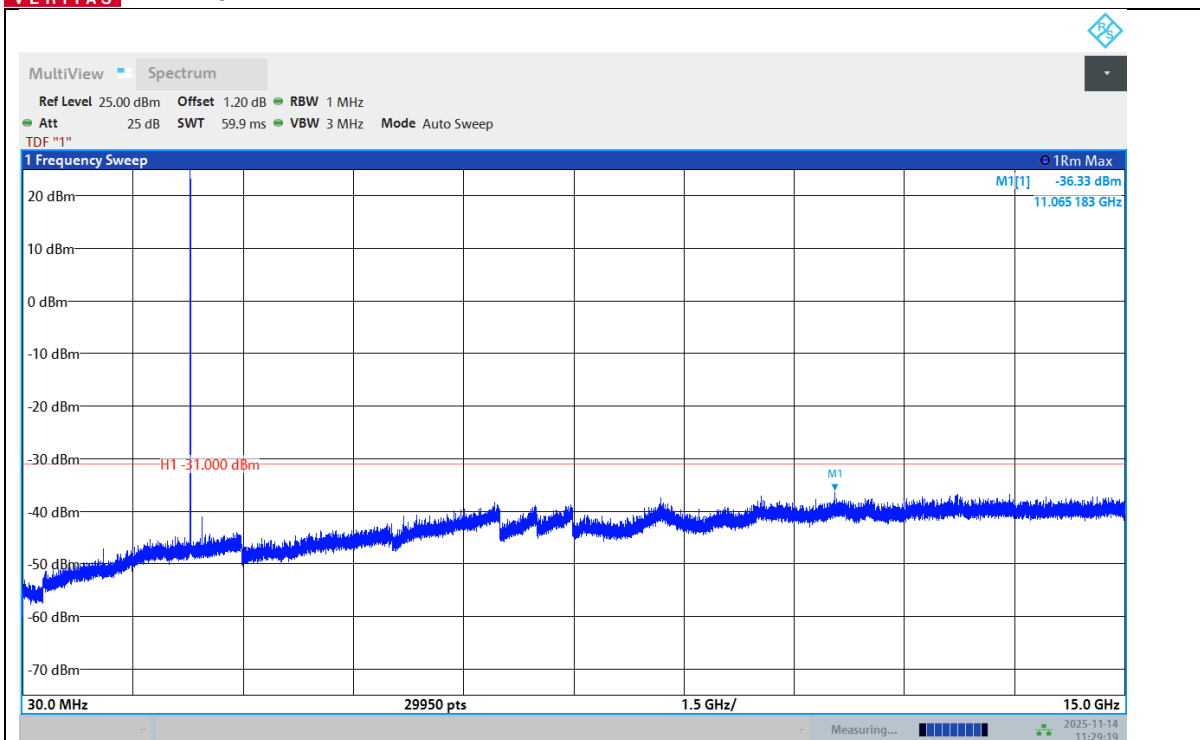


Test Graphs

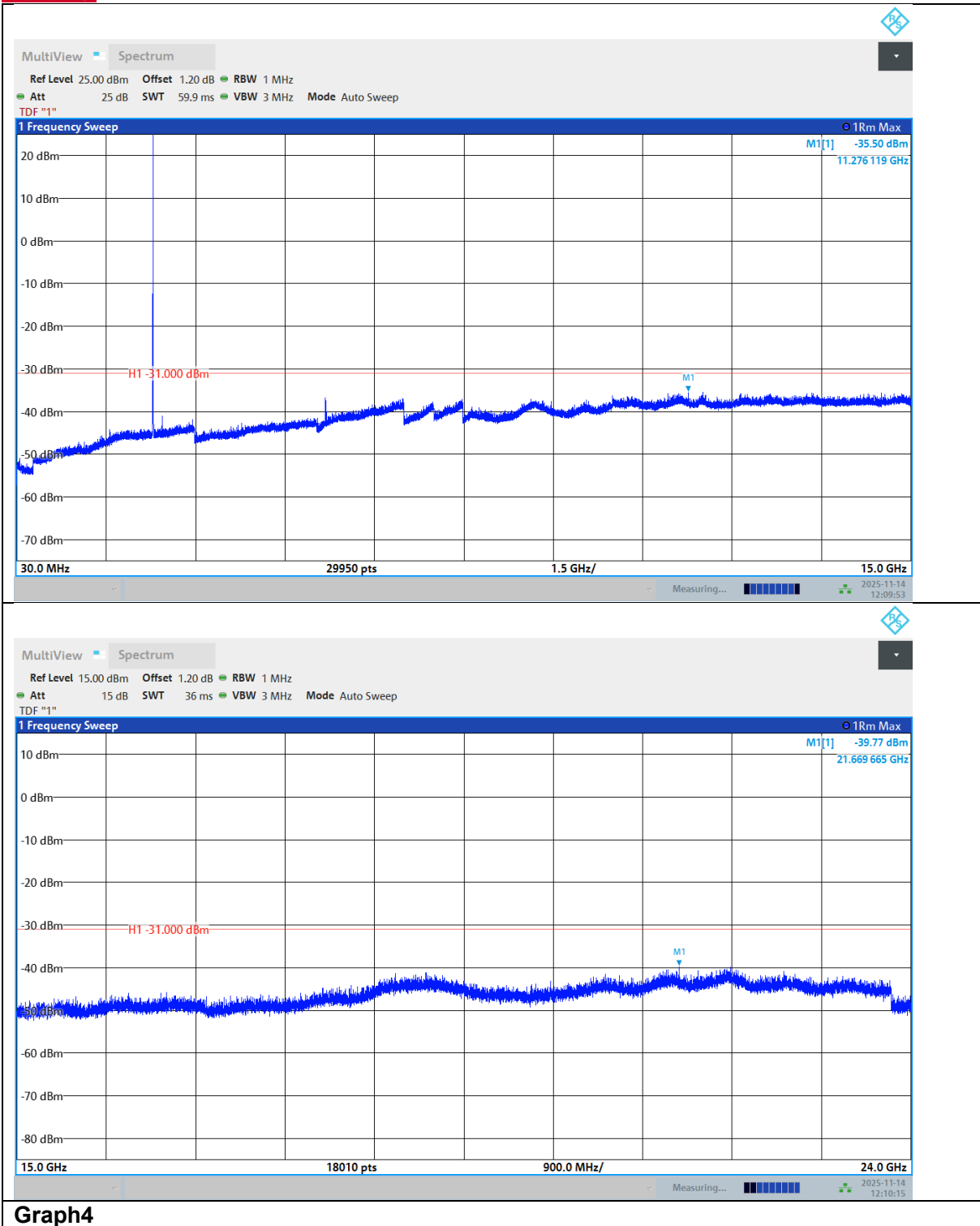
Graph1

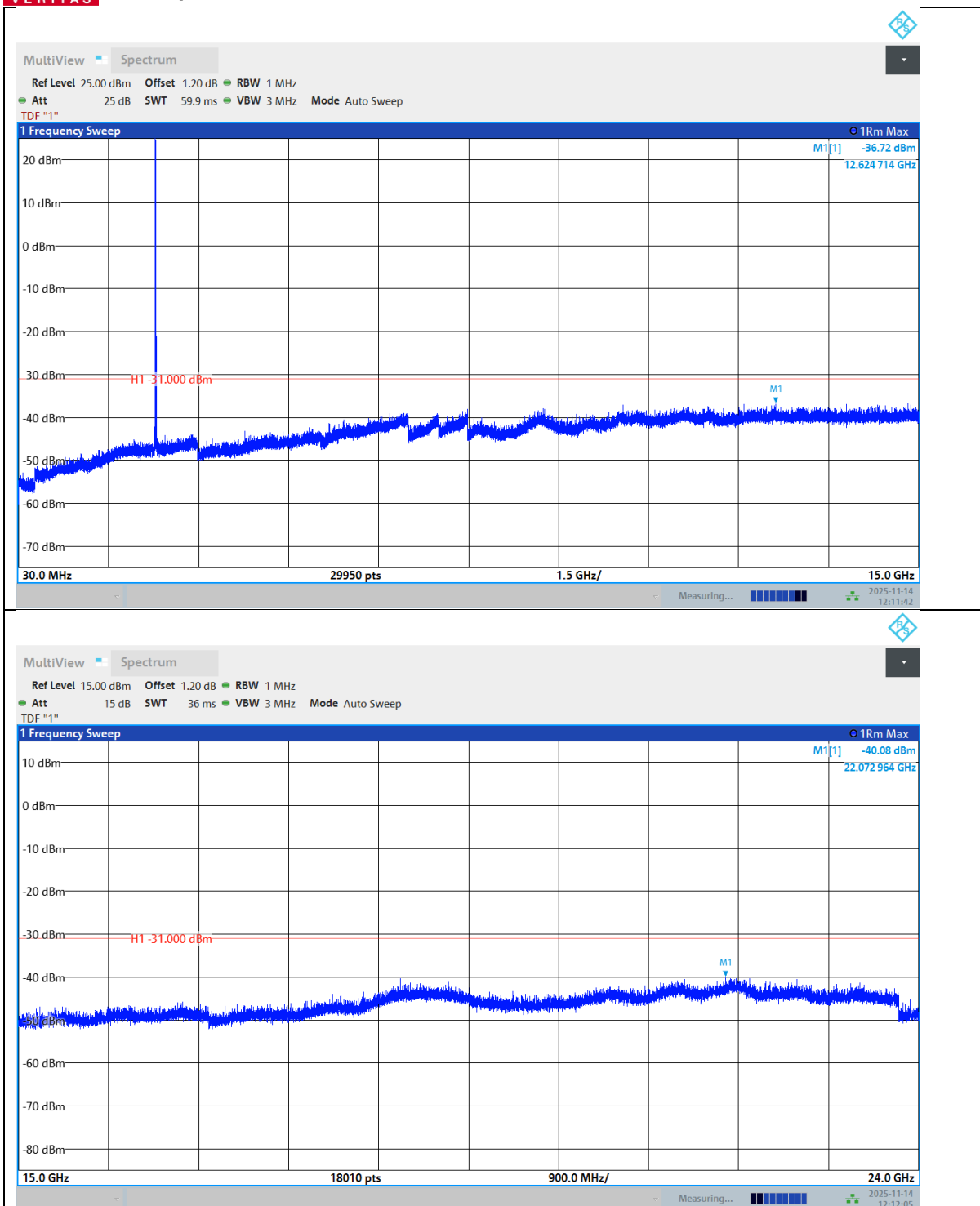


Graph2



Graph3







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FREQUENCY STABILITY

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature(°C)	Deviation(Hz)	Deviation(ppm)	Limit(ppm)	Verdict
Band30	10MHz	QPSK	2310	50RB#0	LV	NT	-145.08	-0.0628	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	NT	3.67	0.0016	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	HV	NT	-164.82	-0.0714	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature(°C)	Deviation(Hz)	Deviation(ppm)	Limit(ppm)	Verdict
Band30	10MHz	QPSK	2310	50RB#0	NV	-30	-78.26	-0.0339	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	-20	-87.47	-0.0379	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	-10	-145.02	-0.0628	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	0	-43.40	-0.0188	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	10	-100.68	-0.0436	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	20	14.61	0.0063	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	30	-134.41	-0.0582	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	40	-63.39	-0.0274	±2.5	PASS
Band30	10MHz	QPSK	2310	50RB#0	NV	50	0.40	0.0002	±2.5	PASS



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LTE BAND 66(INCLUDING LTE BAND4)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
1.4MHz	QPSK	131979	1RB Low	4.90	13	PASS
1.4MHz	QPSK	131979	Full RB	5.40	13	PASS
1.4MHz	16QAM	131979	1RB Low	5.34	13	PASS
1.4MHz	16QAM	131979	Full RB	6.18	13	PASS
1.4MHz	64QAM	131979	1RB Low	6.20	13	PASS
1.4MHz	64QAM	131979	Full RB	6.82	13	PASS
1.4MHz	QPSK	132322	1RB Low	5.14	13	PASS
1.4MHz	QPSK	132322	Full RB	5.48	13	PASS
1.4MHz	16QAM	132322	1RB Low	6.02	13	PASS
1.4MHz	16QAM	132322	Full RB	6.26	13	PASS
1.4MHz	64QAM	132322	1RB Low	6.28	13	PASS
1.4MHz	64QAM	132322	Full RB	6.80	13	PASS
1.4MHz	QPSK	132665	1RB Low	5.34	13	PASS
1.4MHz	QPSK	132665	Full RB	5.60	13	PASS
1.4MHz	16QAM	132665	1RB Low	6.06	13	PASS
1.4MHz	16QAM	132665	Full RB	6.50	13	PASS
1.4MHz	64QAM	132665	1RB Low	6.94	13	PASS
1.4MHz	64QAM	132665	Full RB	6.58	13	PASS
3MHz	QPSK	131987	1RB Low	4.60	13	PASS
3MHz	QPSK	131987	Full RB	5.12	13	PASS
3MHz	16QAM	131987	1RB Low	5.42	13	PASS
3MHz	16QAM	131987	Full RB	6.00	13	PASS
3MHz	64QAM	131987	1RB Low	5.68	13	PASS
3MHz	64QAM	131987	Full RB	6.52	13	PASS
3MHz	QPSK	132322	1RB Low	5.32	13	PASS
3MHz	QPSK	132322	Full RB	5.36	13	PASS
3MHz	16QAM	132322	1RB Low	6.30	13	PASS
3MHz	16QAM	132322	Full RB	6.28	13	PASS
3MHz	64QAM	132322	1RB Low	6.48	13	PASS
3MHz	64QAM	132322	Full RB	6.44	13	PASS
3MHz	QPSK	132657	1RB Low	5.00	13	PASS
3MHz	QPSK	132657	Full RB	5.40	13	PASS
3MHz	16QAM	132657	1RB Low	5.58	13	PASS
3MHz	16QAM	132657	Full RB	6.36	13	PASS
3MHz	64QAM	132657	1RB Low	6.52	13	PASS
3MHz	64QAM	132657	Full RB	6.68	13	PASS
5MHz	QPSK	131997	1RB Low	4.74	13	PASS
5MHz	QPSK	131997	Full RB	5.14	13	PASS
5MHz	16QAM	131997	1RB Low	5.26	13	PASS
5MHz	16QAM	131997	Full RB	6.00	13	PASS
5MHz	64QAM	131997	1RB Low	5.90	13	PASS
5MHz	64QAM	131997	Full RB	6.42	13	PASS
5MHz	QPSK	132322	1RB Low	5.10	13	PASS
5MHz	QPSK	132322	Full RB	5.38	13	PASS
5MHz	16QAM	132322	1RB Low	5.50	13	PASS
5MHz	16QAM	132322	Full RB	6.18	13	PASS

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5MHz	64QAM	132322	1RB Low	6.76	13	PASS
5MHz	64QAM	132322	Full RB	6.54	13	PASS
5MHz	QPSK	132647	1RB Low	5.00	13	PASS
5MHz	QPSK	132647	Full RB	5.40	13	PASS
5MHz	16QAM	132647	1RB Low	5.72	13	PASS
5MHz	16QAM	132647	Full RB	6.14	13	PASS
5MHz	64QAM	132647	1RB Low	6.80	13	PASS
5MHz	64QAM	132647	Full RB	6.56	13	PASS
10MHz	QPSK	132022	1RB Low	4.88	13	PASS
10MHz	QPSK	132022	Full RB	5.16	13	PASS
10MHz	16QAM	132022	1RB Low	5.74	13	PASS
10MHz	16QAM	132022	Full RB	5.96	13	PASS
10MHz	64QAM	132022	1RB Low	6.00	13	PASS
10MHz	64QAM	132022	Full RB	6.46	13	PASS
10MHz	QPSK	132322	1RB Low	5.50	13	PASS
10MHz	QPSK	132322	Full RB	5.36	13	PASS
10MHz	16QAM	132322	1RB Low	6.32	13	PASS
10MHz	16QAM	132322	Full RB	6.16	13	PASS
10MHz	64QAM	132322	1RB Low	6.76	13	PASS
10MHz	64QAM	132322	Full RB	6.54	13	PASS
10MHz	QPSK	132622	1RB Low	5.44	13	PASS
10MHz	QPSK	132622	Full RB	5.32	13	PASS
10MHz	16QAM	132622	1RB Low	6.20	13	PASS
10MHz	16QAM	132622	Full RB	6.26	13	PASS
10MHz	64QAM	132622	1RB Low	6.68	13	PASS
10MHz	64QAM	132622	Full RB	6.48	13	PASS
15MHz	QPSK	132047	1RB Low	4.80	13	PASS
15MHz	QPSK	132047	Full RB	5.70	13	PASS
15MHz	16QAM	132047	1RB Low	5.46	13	PASS
15MHz	16QAM	132047	Full RB	6.24	13	PASS
15MHz	64QAM	132047	1RB Low	5.74	13	PASS
15MHz	64QAM	132047	Full RB	6.52	13	PASS
15MHz	QPSK	132322	1RB Low	5.24	13	PASS
15MHz	QPSK	132322	Full RB	5.70	13	PASS
15MHz	16QAM	132322	1RB Low	5.88	13	PASS
15MHz	16QAM	132322	Full RB	6.28	13	PASS
15MHz	64QAM	132322	1RB Low	6.70	13	PASS
15MHz	64QAM	132322	Full RB	6.48	13	PASS
15MHz	QPSK	132597	1RB Low	5.44	13	PASS
15MHz	QPSK	132597	Full RB	5.82	13	PASS
15MHz	16QAM	132597	1RB Low	6.16	13	PASS
15MHz	16QAM	132597	Full RB	6.40	13	PASS
15MHz	64QAM	132597	1RB Low	6.60	13	PASS
15MHz	64QAM	132597	Full RB	6.58	13	PASS
20MHz	QPSK	132072	1RB Low	4.60	13	PASS
20MHz	QPSK	132072	Full RB	5.54	13	PASS
20MHz	16QAM	132072	1RB Low	5.30	13	PASS
20MHz	16QAM	132072	Full RB	6.28	13	PASS
20MHz	64QAM	132072	1RB Low	6.00	13	PASS
20MHz	64QAM	132072	Full RB	6.72	13	PASS
20MHz	QPSK	132322	1RB Low	5.66	13	PASS
20MHz	QPSK	132322	Full RB	5.36	13	PASS
20MHz	16QAM	132322	1RB Low	6.12	13	PASS
20MHz	16QAM	132322	Full RB	6.22	13	PASS



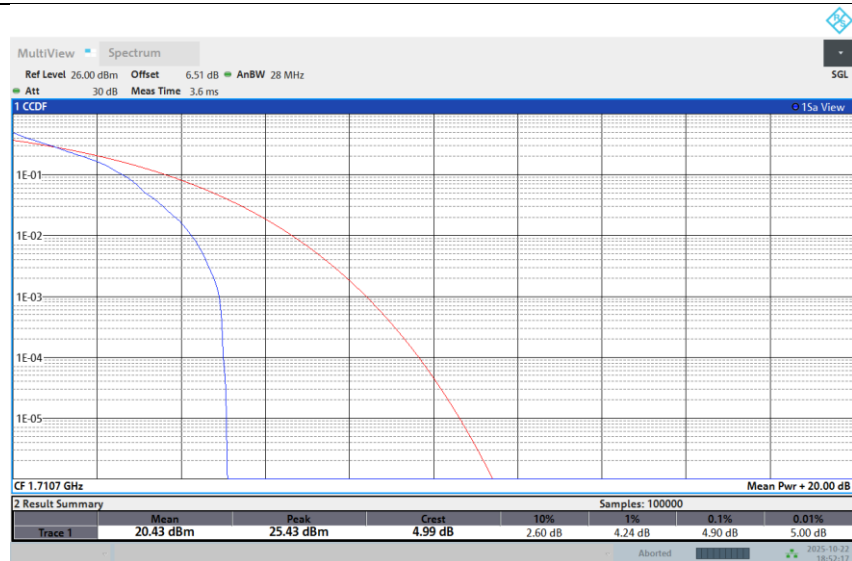
BUREAU VERITAS Test Report No.: PSU-NQN2509250114RF09

20MHz	64QAM	132322	1RB Low	6.76	13	PASS
20MHz	64QAM	132322	Full RB	6.50	13	PASS
20MHz	QPSK	132572	1RB Low	5.66	13	PASS
20MHz	QPSK	132572	Full RB	5.68	13	PASS
20MHz	16QAM	132572	1RB Low	6.04	13	PASS
20MHz	16QAM	132572	Full RB	6.46	13	PASS
20MHz	64QAM	132572	1RB Low	6.62	13	PASS
20MHz	64QAM	132572	Full RB	6.66	13	PASS

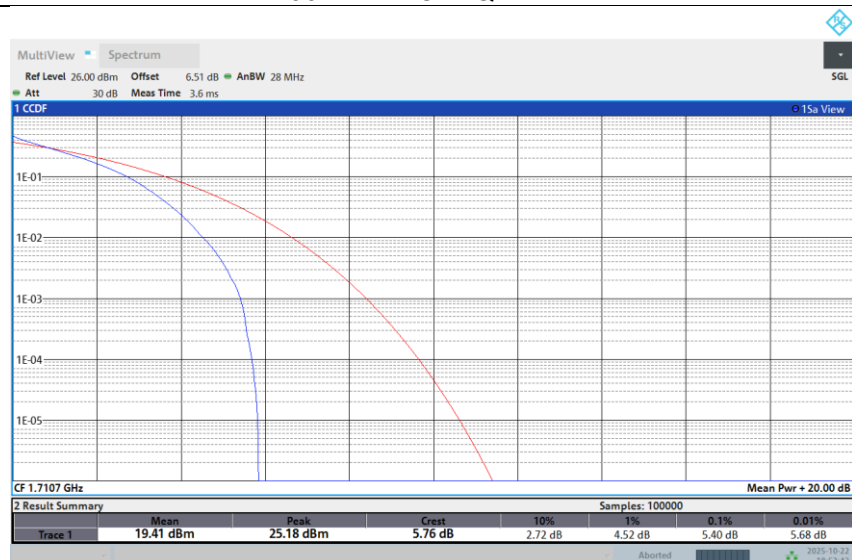


Test Graphs

Band 66-1.4M-LOW-QPSK-1RB Low



Band 66-1.4M-LOW-QPSK-Full RB



Band 66-1.4M-LOW-16QAM-1RB Low