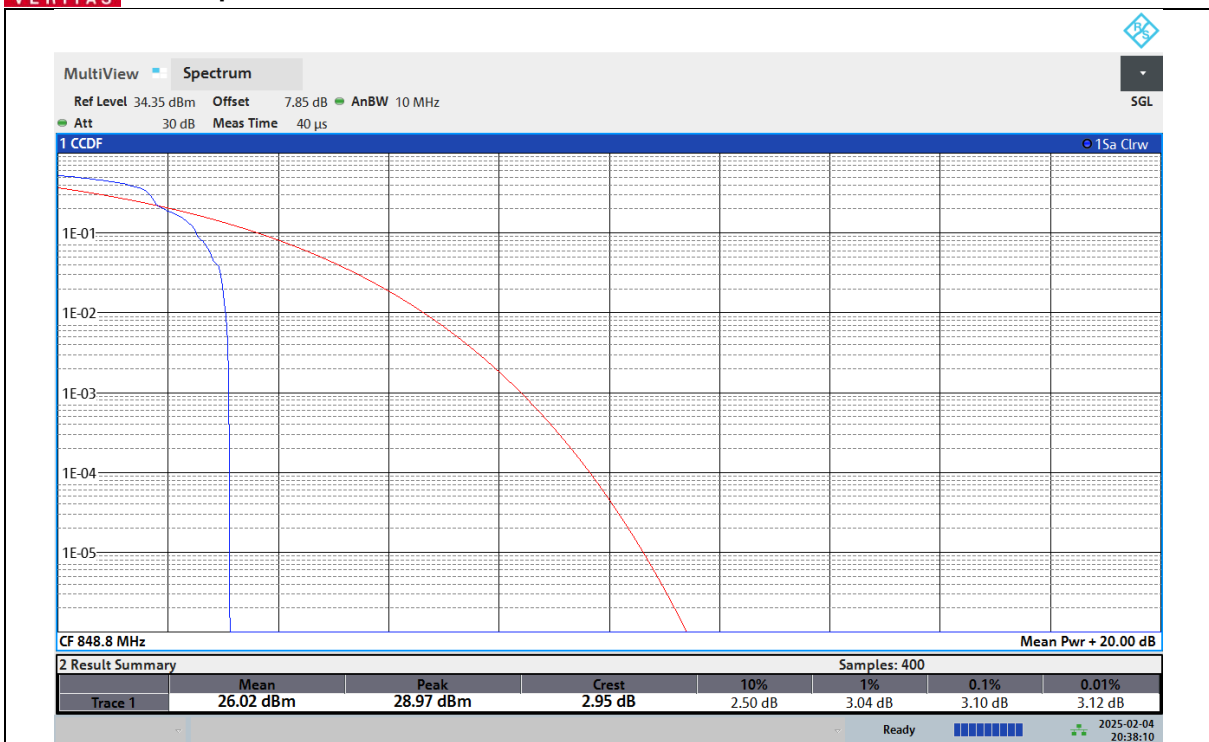






26DB BANDWIDTH AND OCCUPIED BANDWIDTH

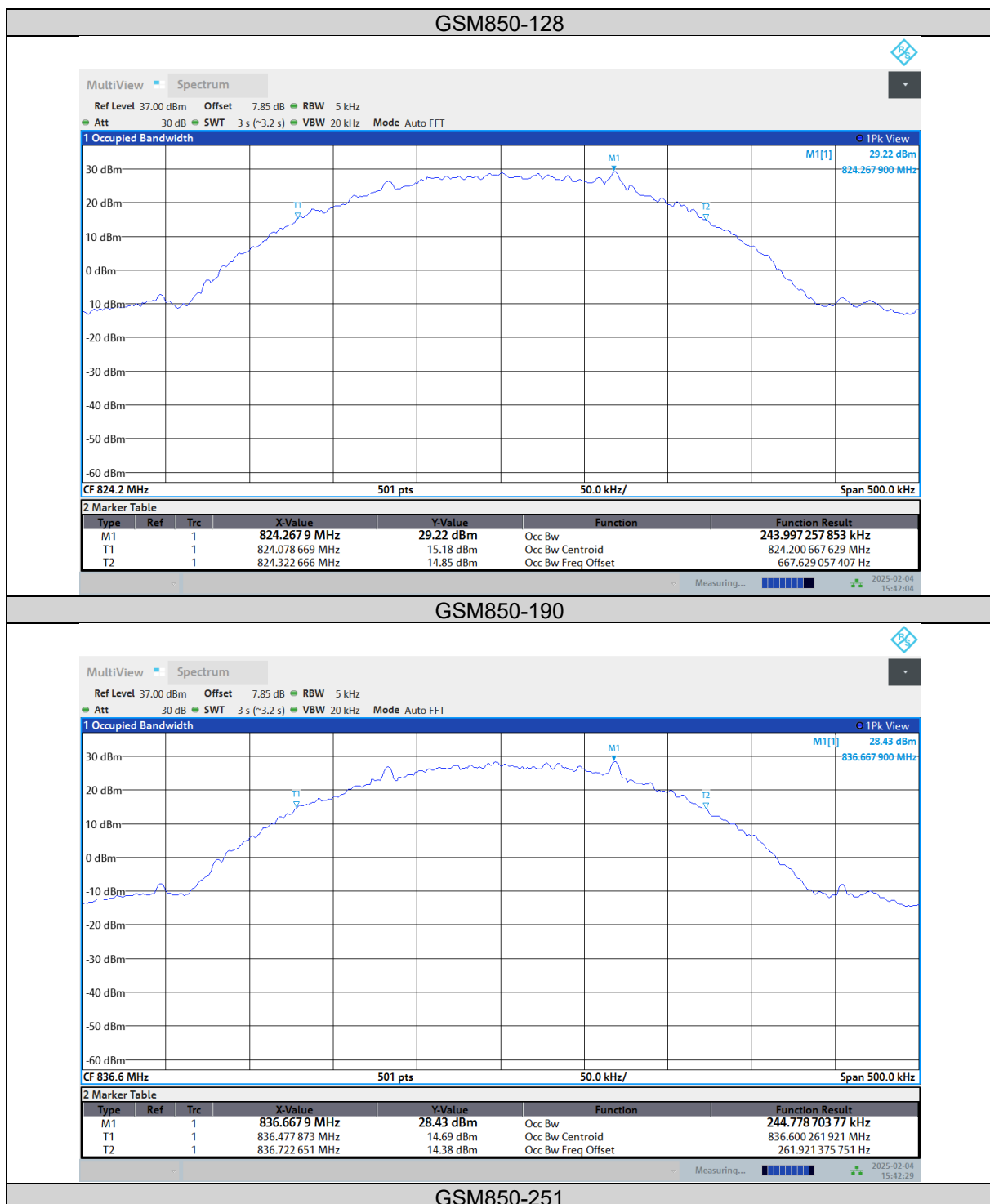
Test Result

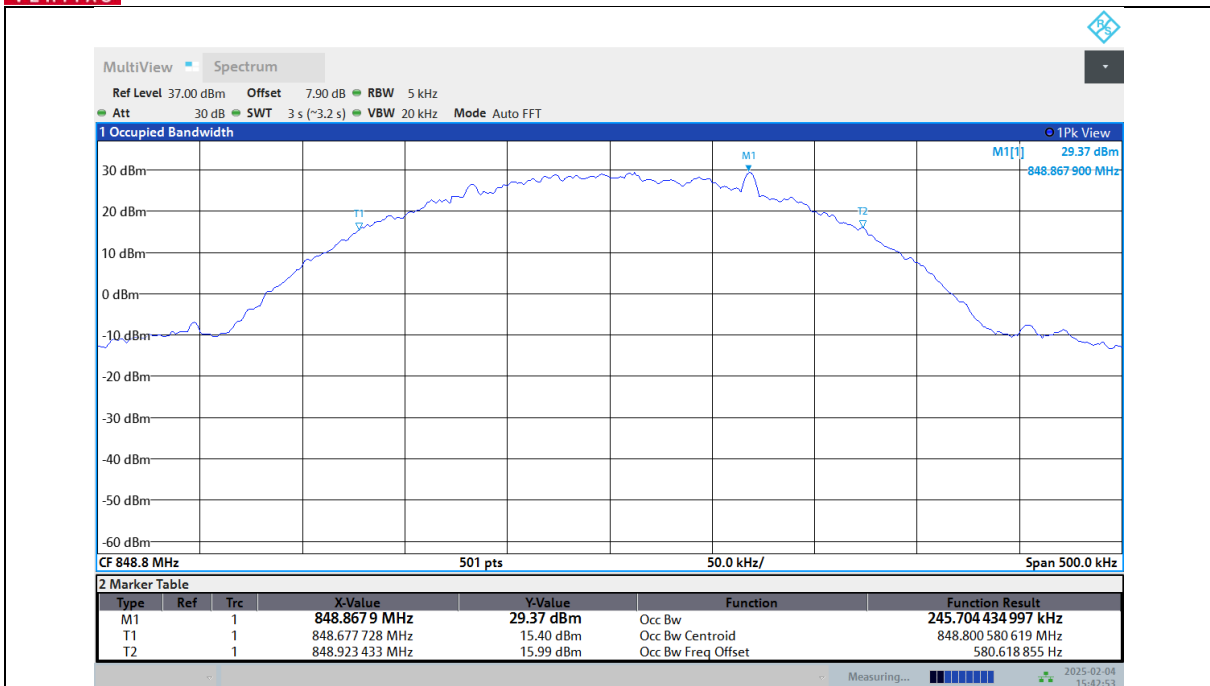
Band	Channel	Occupied Bandwidth (KHz)	26dB Bandwidth (KHz)	Verdict
GSM850	128	243.997	316.18	PASS
GSM850	190	244.779	315.68	PASS
GSM850	251	245.704	317.68	PASS
GPRS850	128	243.780	314.19	PASS
GPRS850	190	244.887	315.68	PASS
GPRS850	251	244.361	315.68	PASS
EGPRS850	128	245.083	316.68	PASS
EGPRS850	190	243.742	314.69	PASS
EGPRS850	251	243.016	313.69	PASS



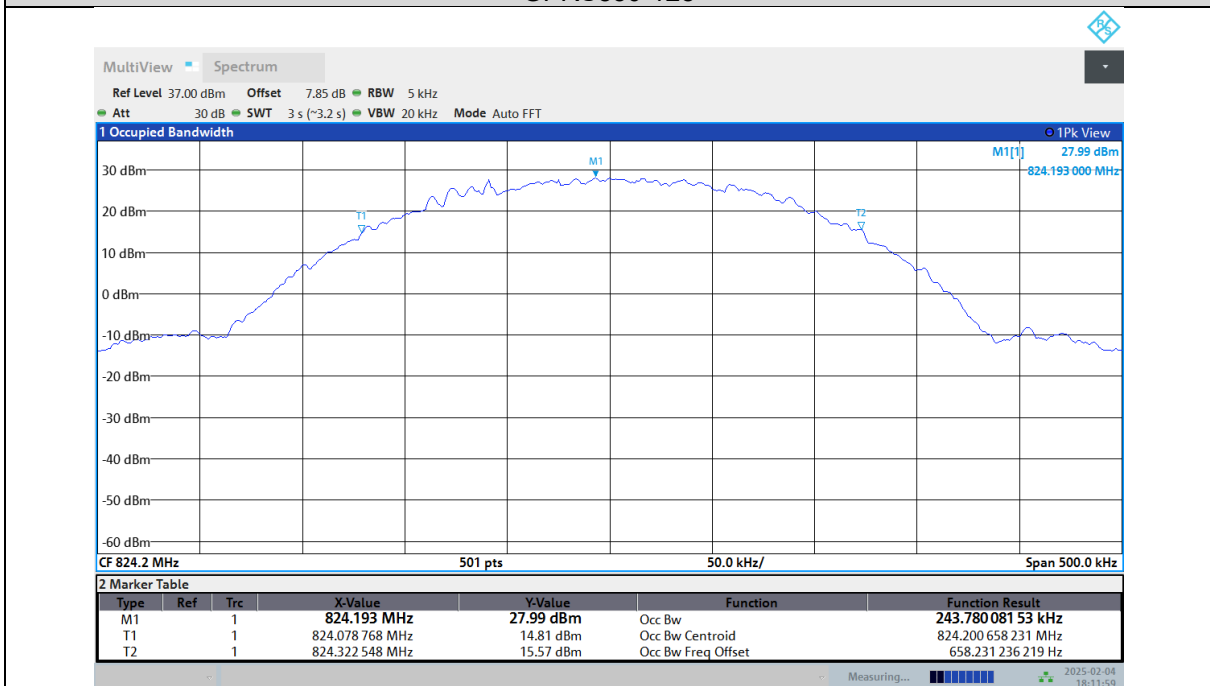
Test Graphs

Occupied Bandwidth

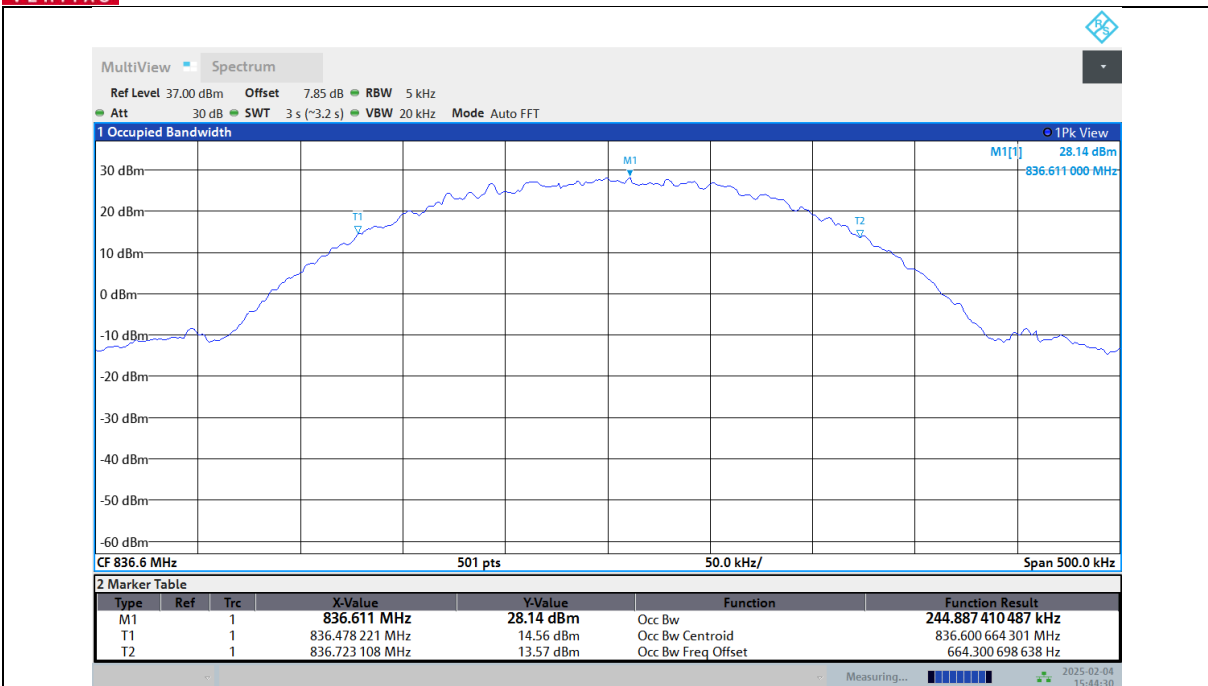




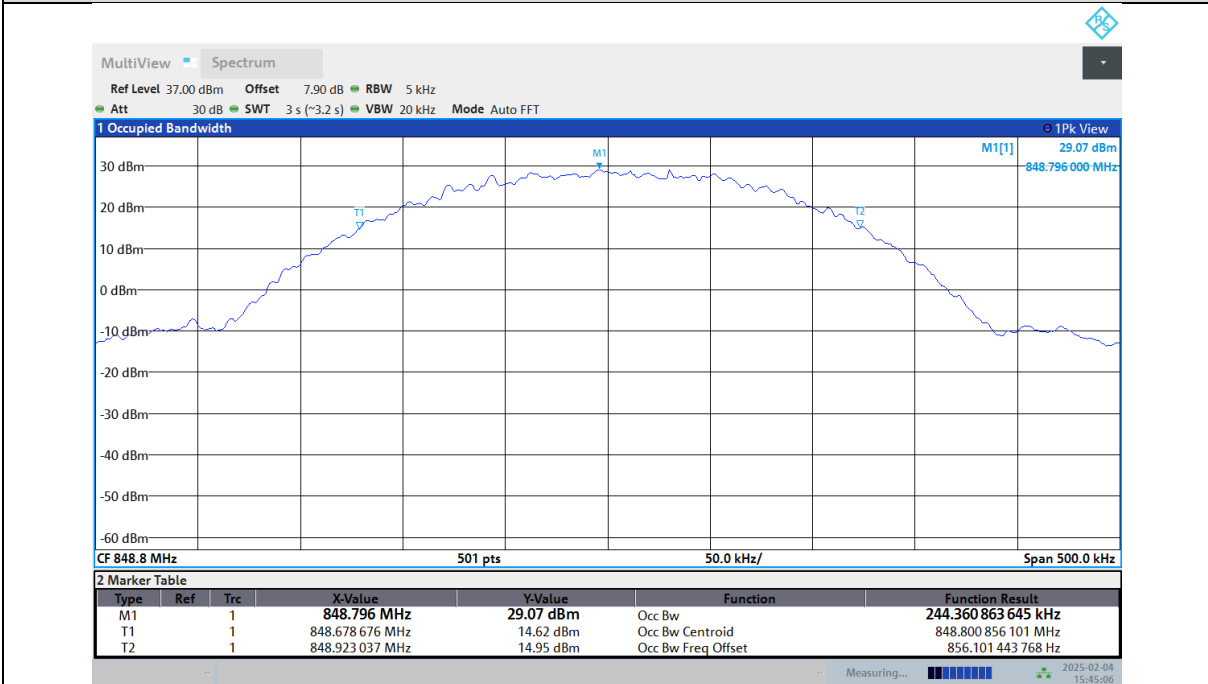
GPRS850-128



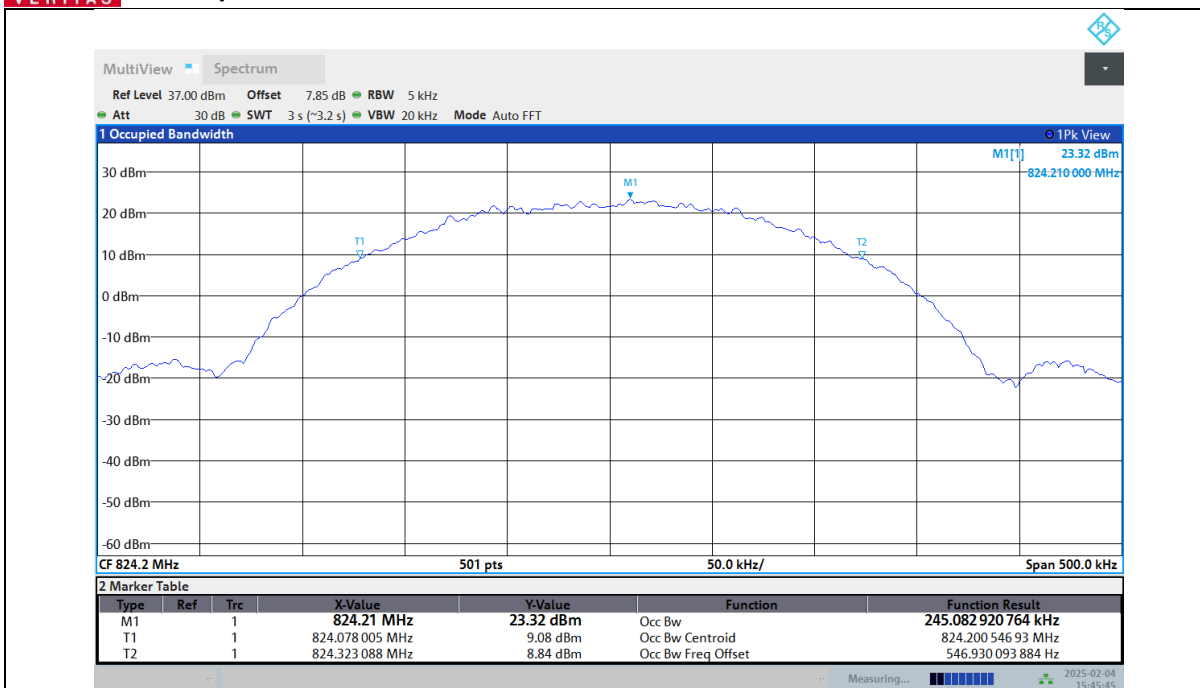
GPRS850-190



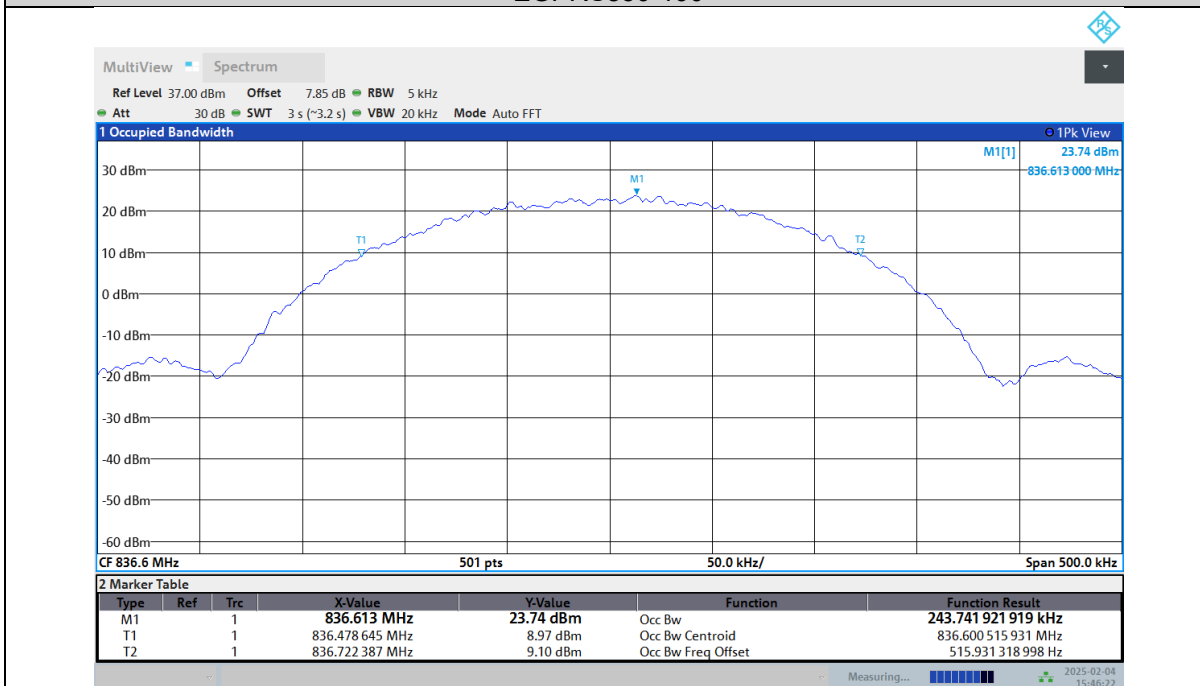
GPRS850-251



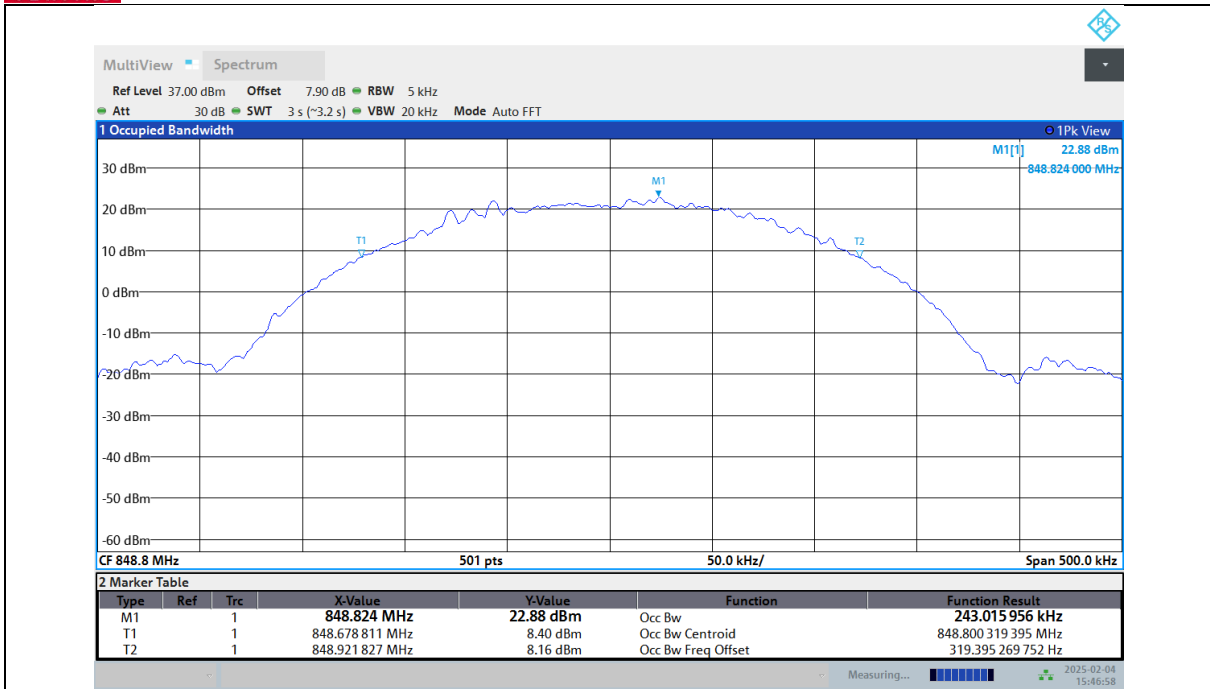
EGPRS850-128



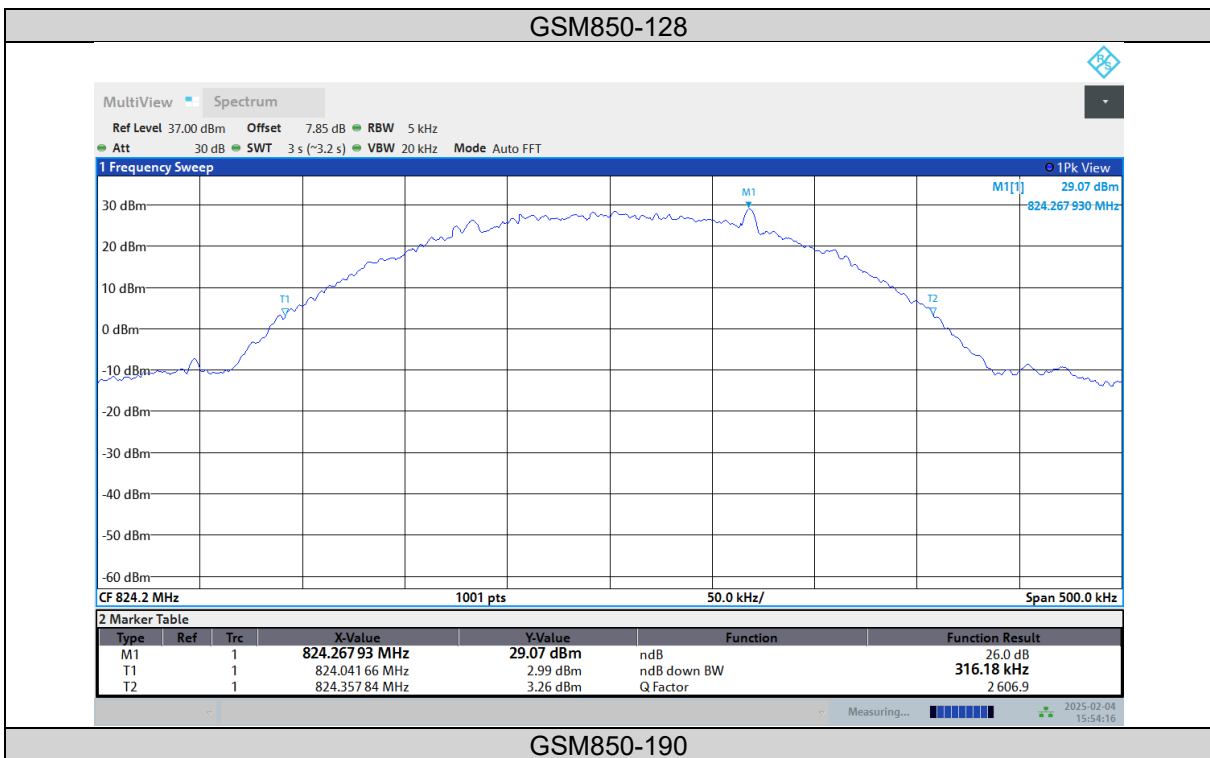
EGPRS850-190



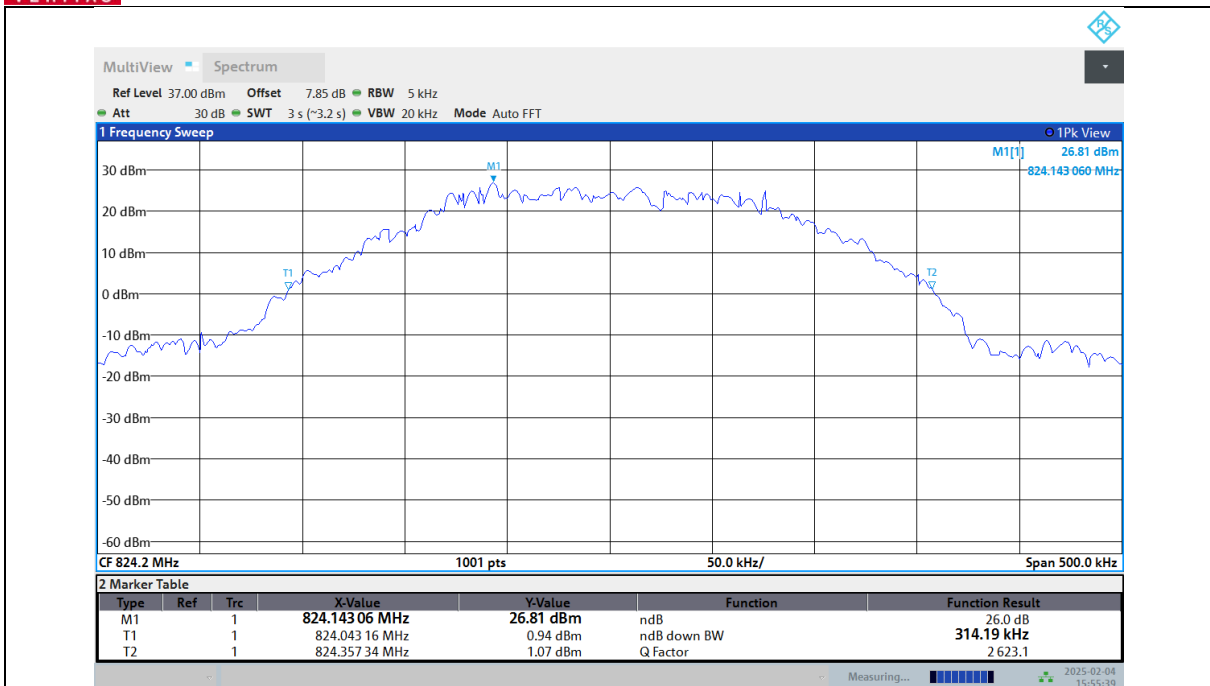
EGPRS850-251



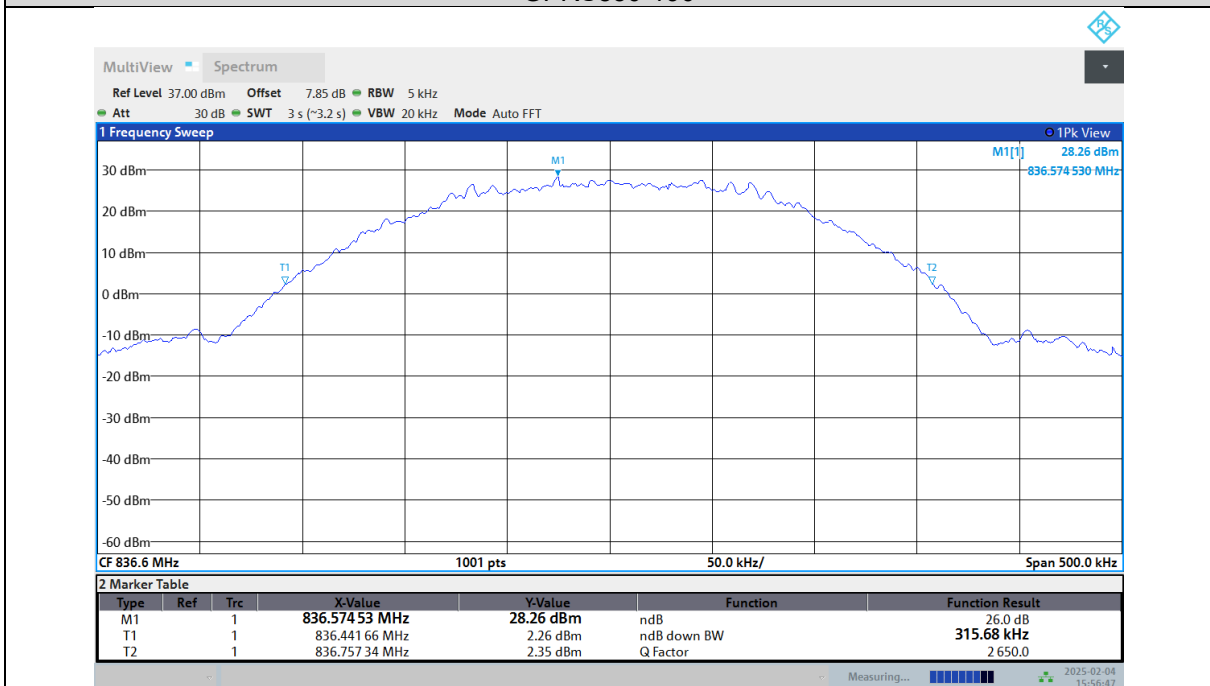
26dB Bandwidth



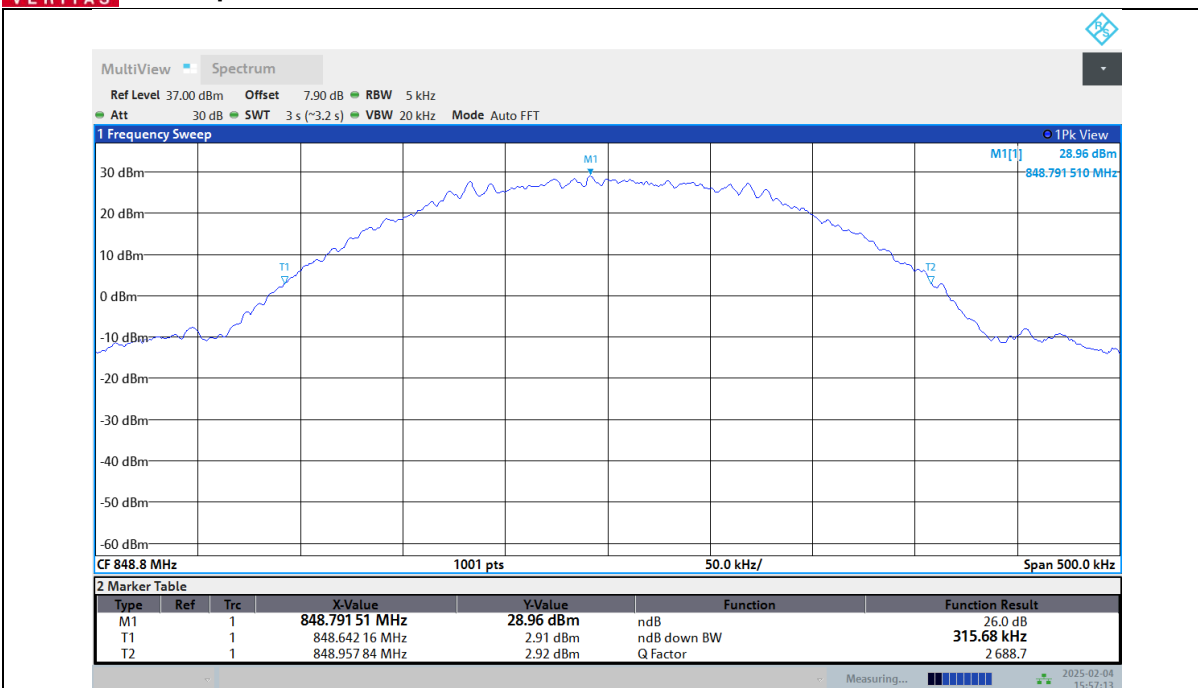




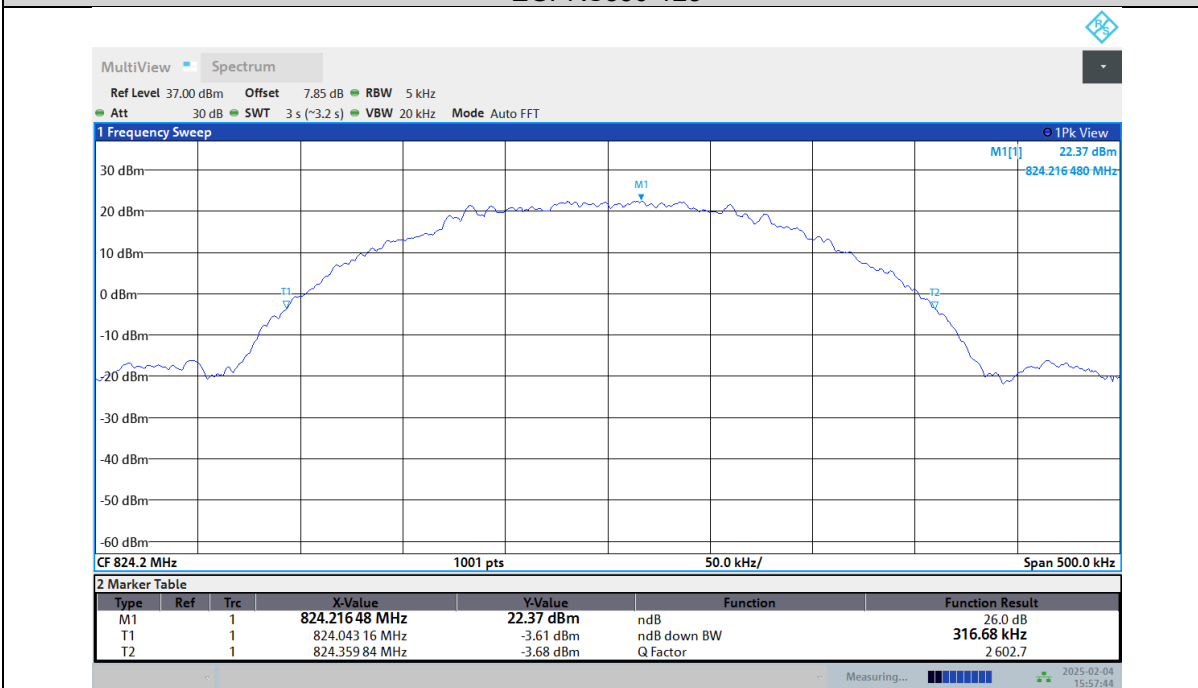
GPRS850-190



GPRS850-251



EGPRS850-128



EGPRS850-190





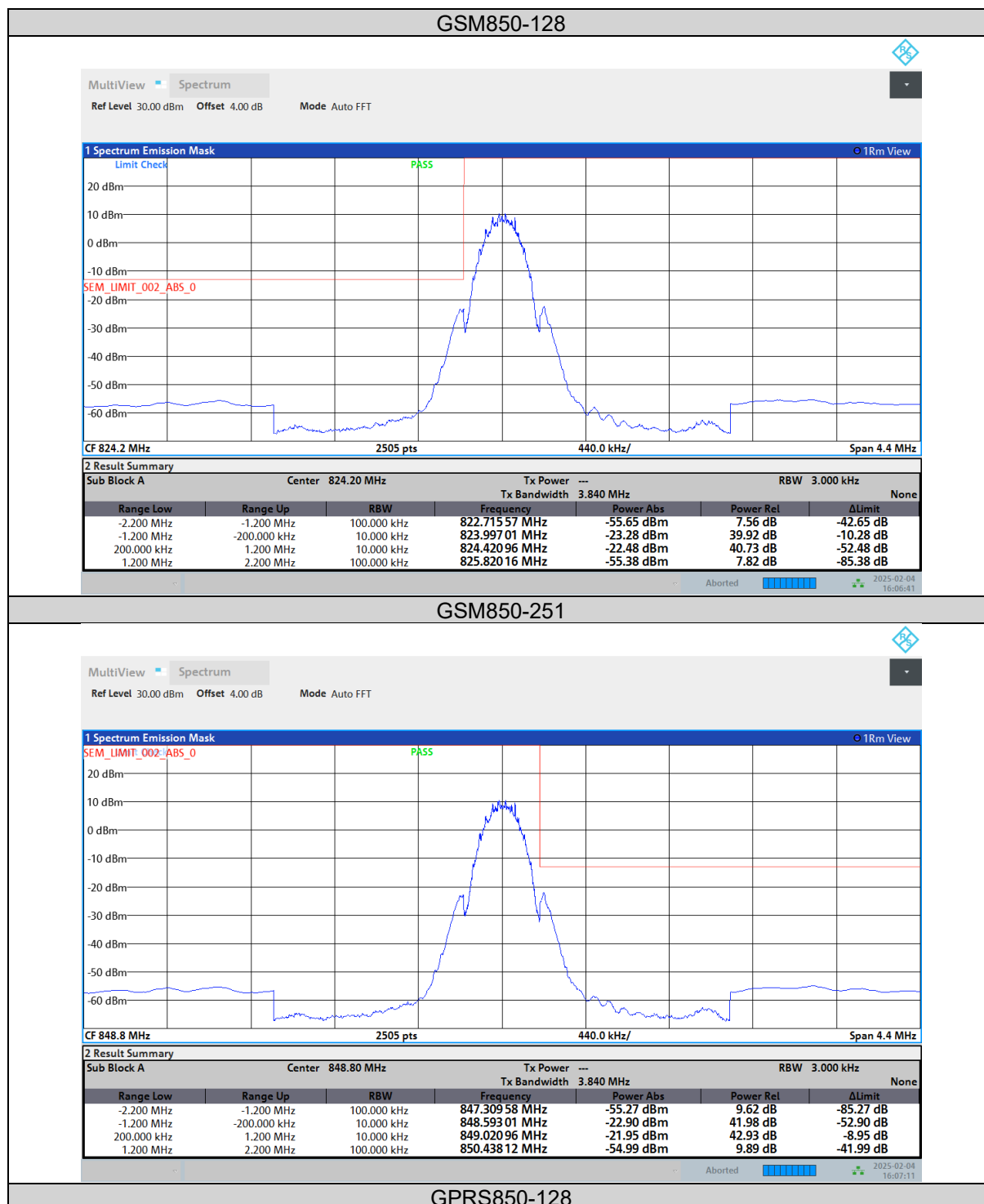
BAND EDGE

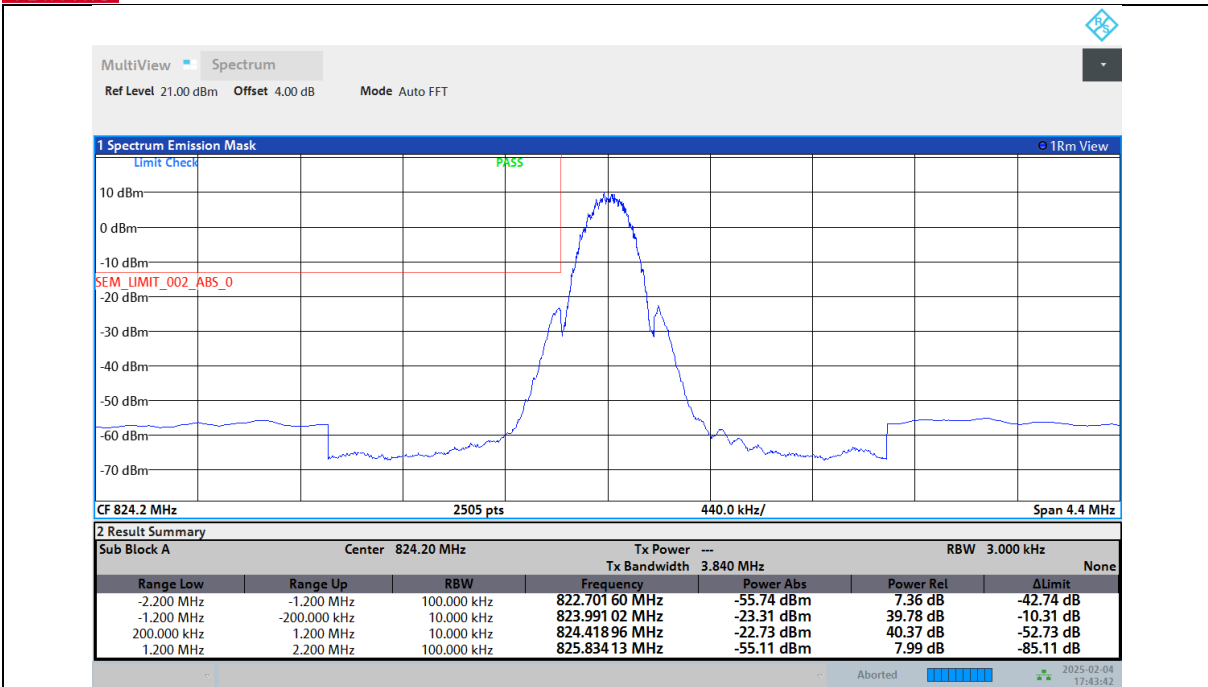
Test Result

Band	Channel	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	See Graph	-13	PASS
GSM850	251	See Graph	-13	PASS
GPRS850	128	See Graph	-13	PASS
GPRS850	251	See Graph	-13	PASS
EGPRS850	128	See Graph	-13	PASS
EGPRS850	251	See Graph	-13	PASS

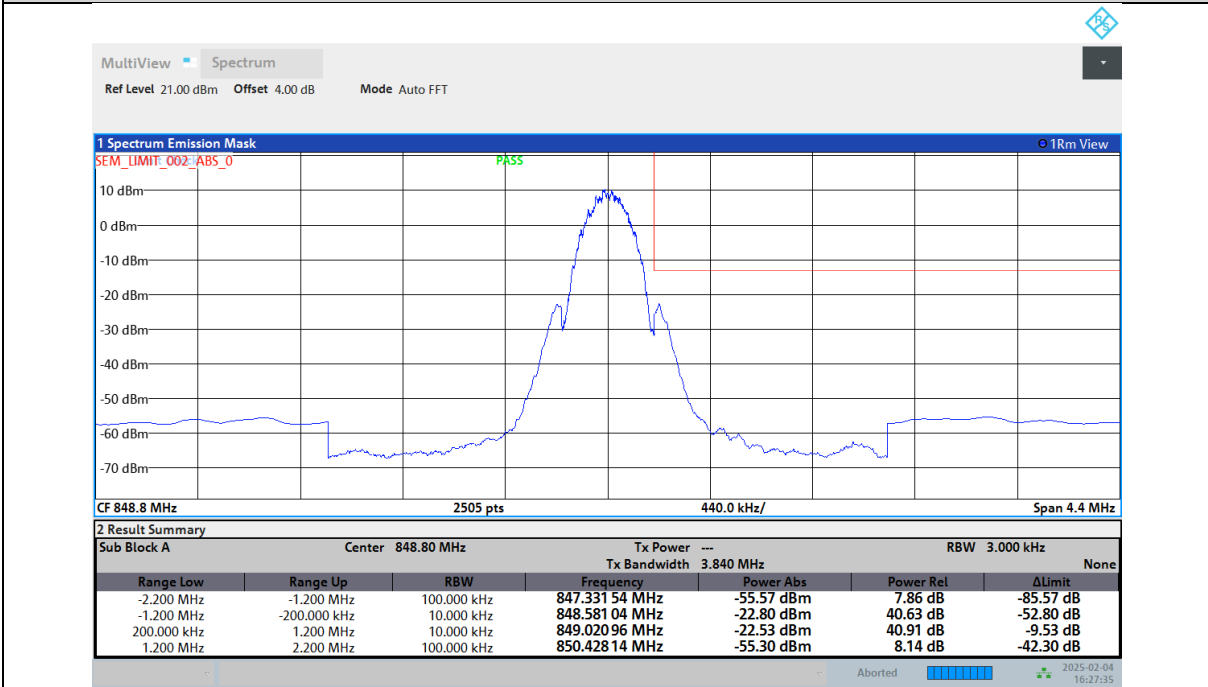


Test Graphs

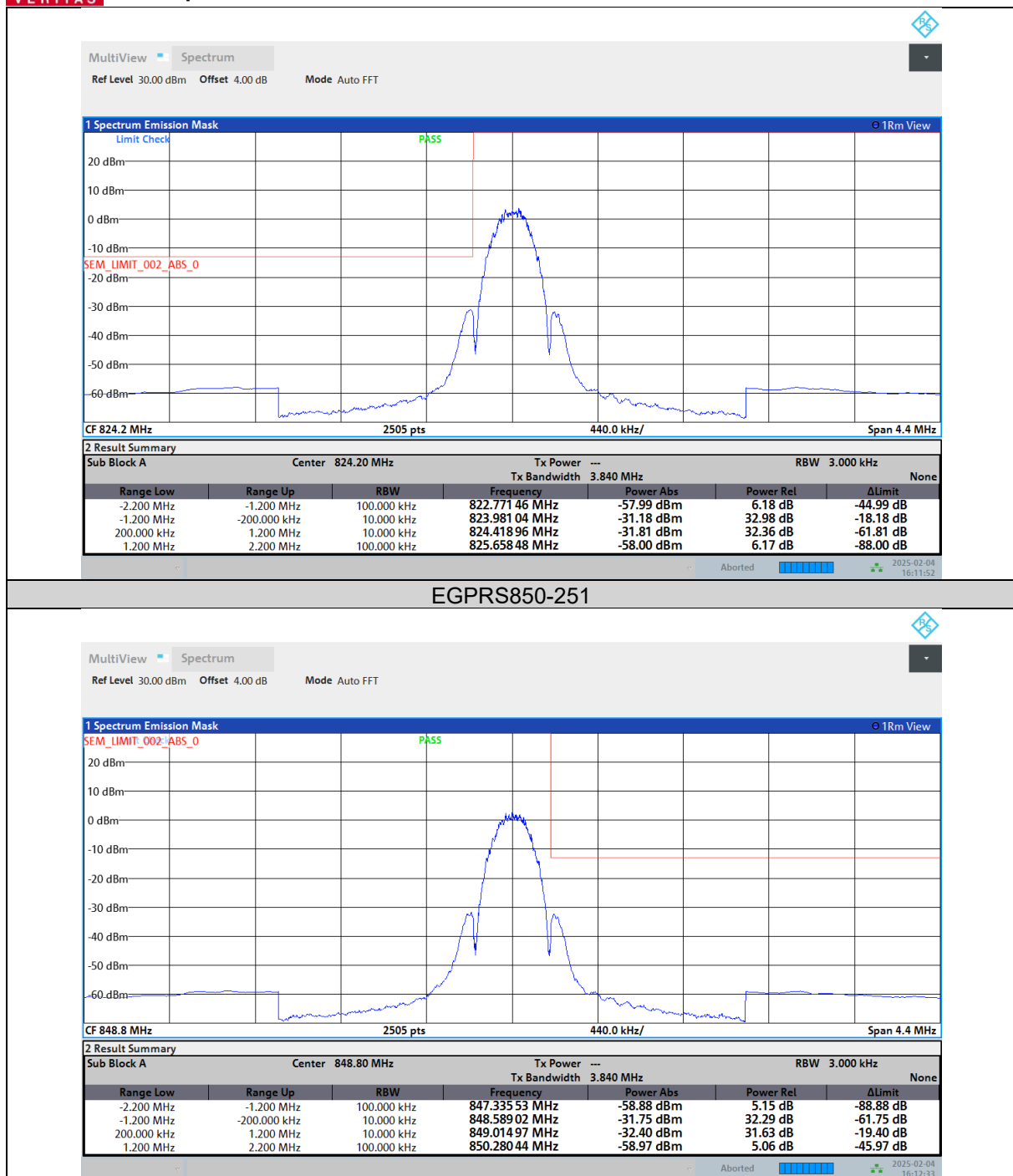




GPRS850-251



EGPRS850-128





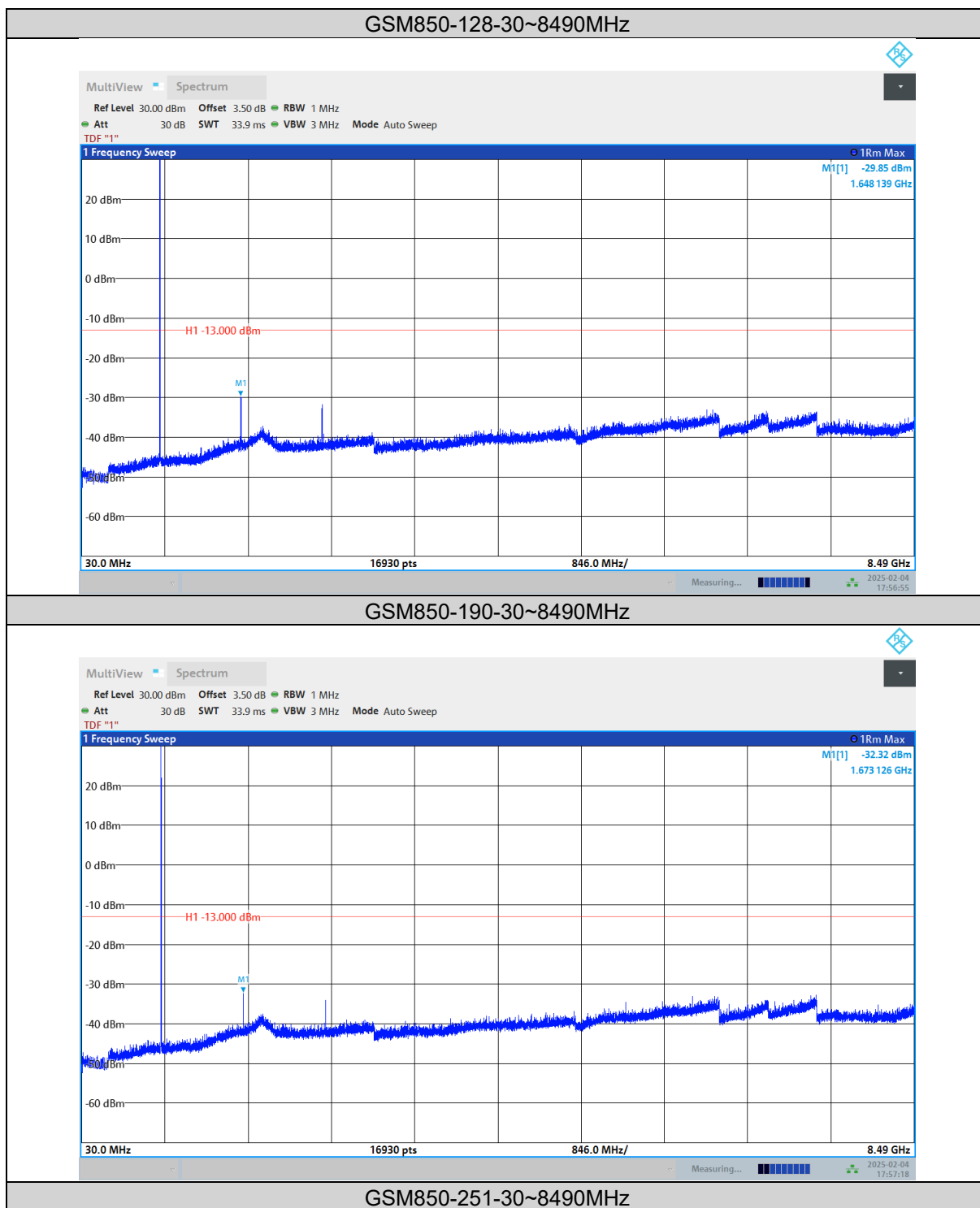
BUREAU VERITAS Test Report No.: PSU-NQN2412090210RF05
CONDUCTED SPURIOUS EMISSION

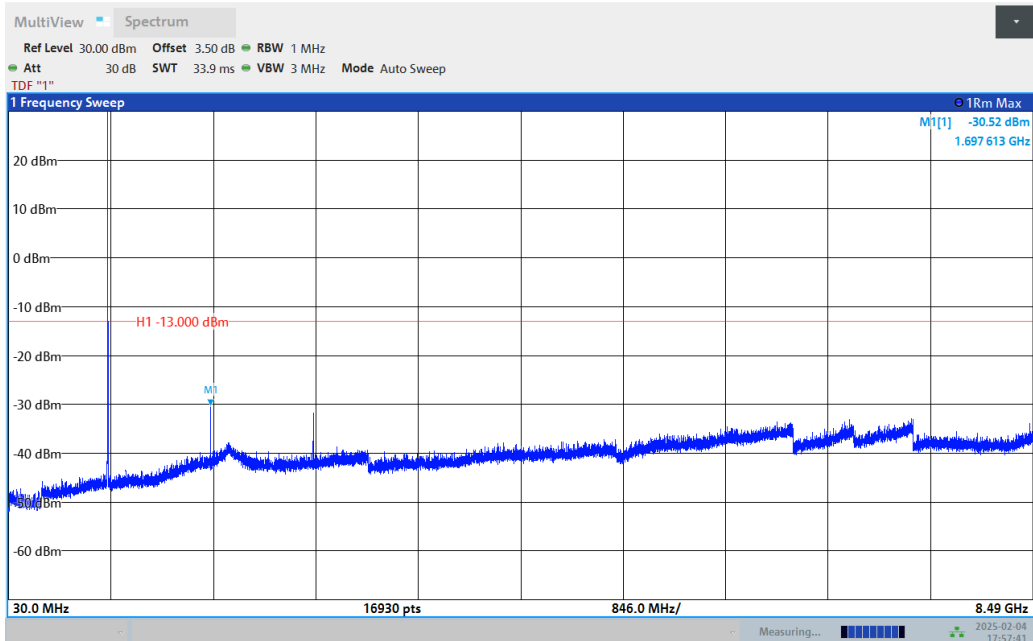
Test Result

Band	Channel	Frequency Range(MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~8490MHz	See Graph	-13	PASS
GSM850	190	30~8490MHz	See Graph	-13	PASS
GSM850	251	30~8490MHz	See Graph	-13	PASS
GPRS850	128	30~8490MHz	See Graph	-13	PASS
GPRS850	190	30~8490MHz	See Graph	-13	PASS
GPRS850	251	30~8490MHz	See Graph	-13	PASS
EGPRS850	128	30~8490MHz	See Graph	-13	PASS
EGPRS850	190	30~8490MHz	See Graph	-13	PASS
EGPRS850	251	30~8490MHz	See Graph	-13	PASS

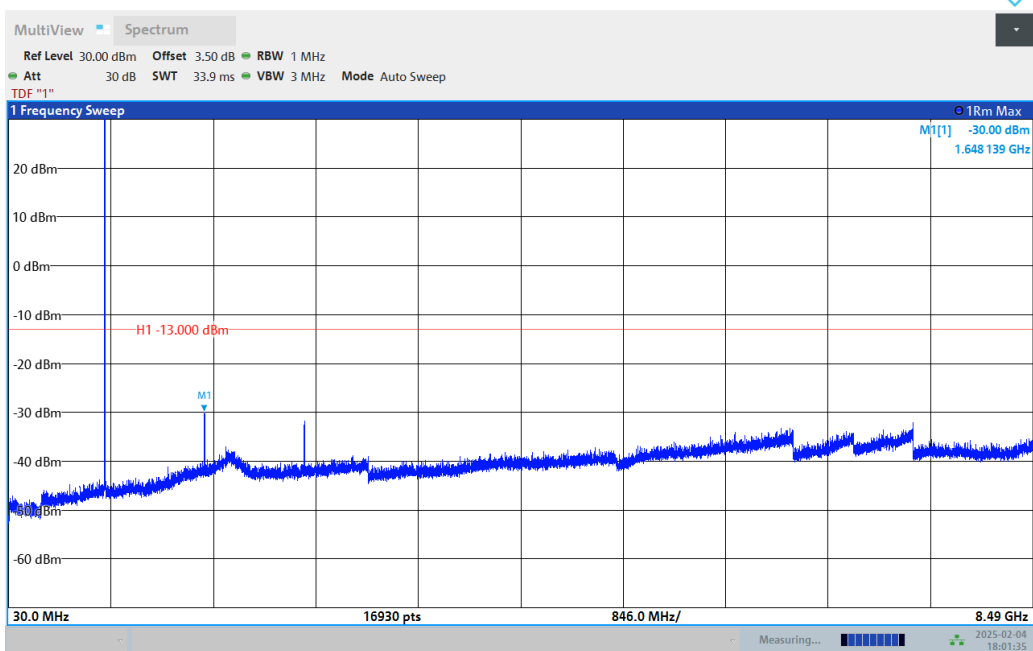


Test Graphs

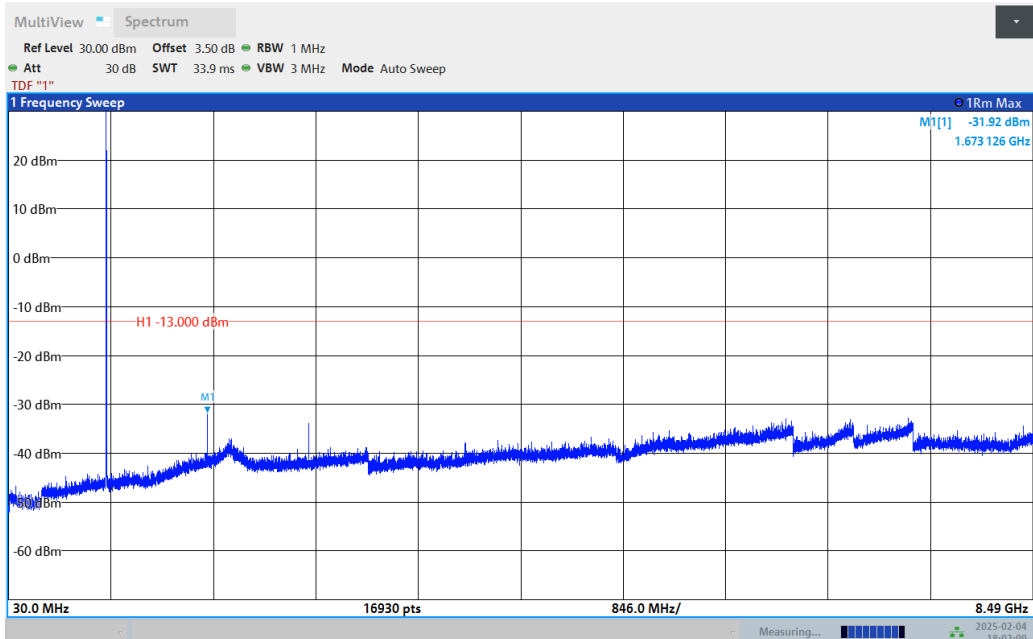




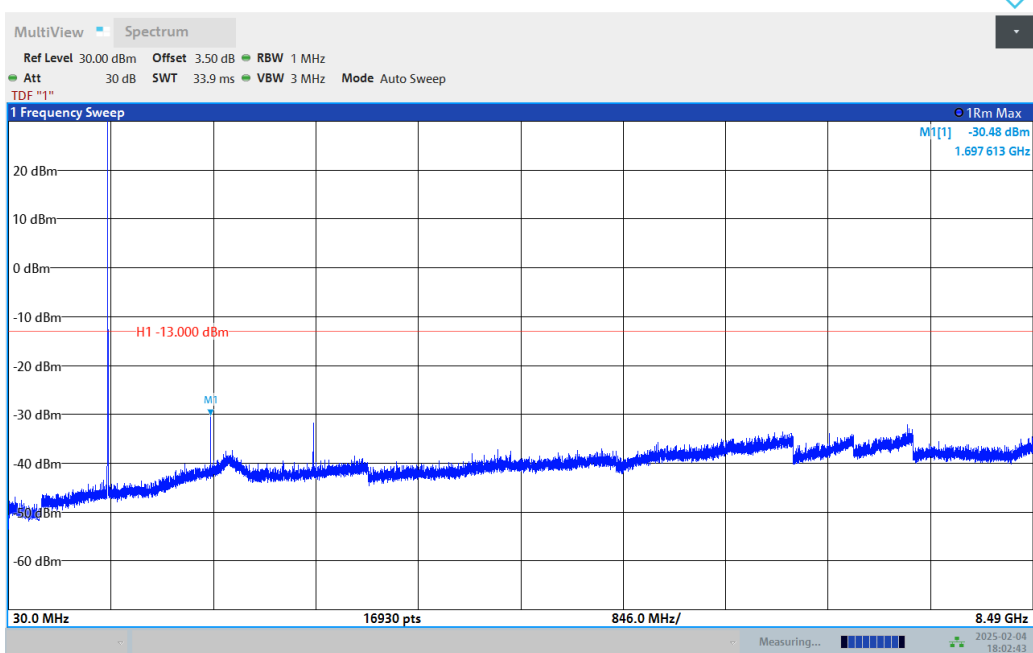
GPRS850-128-30~8490MHz



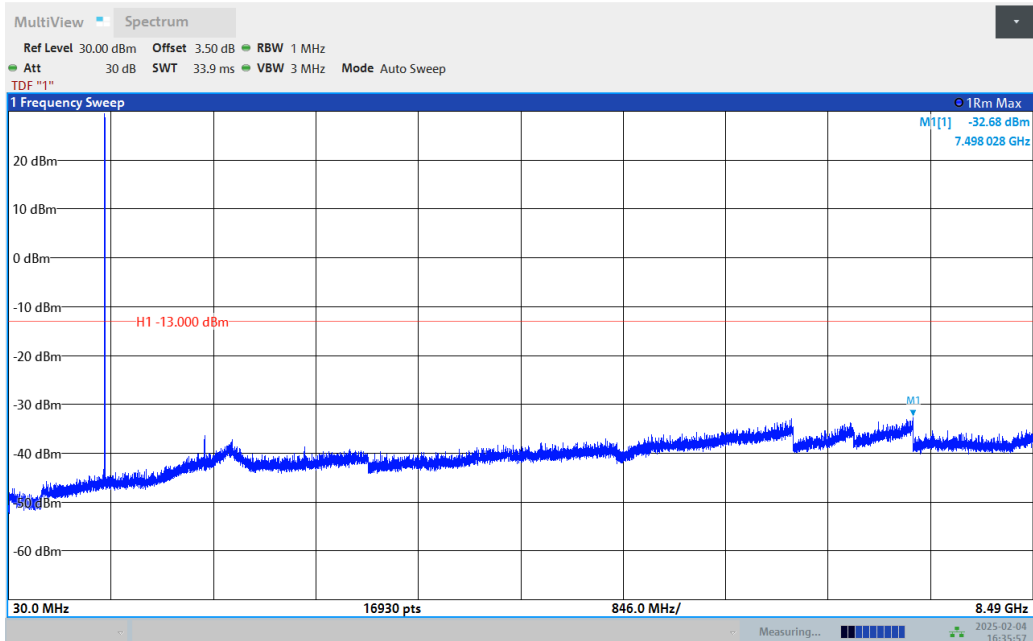
GPRS850-190-30~8490MHz



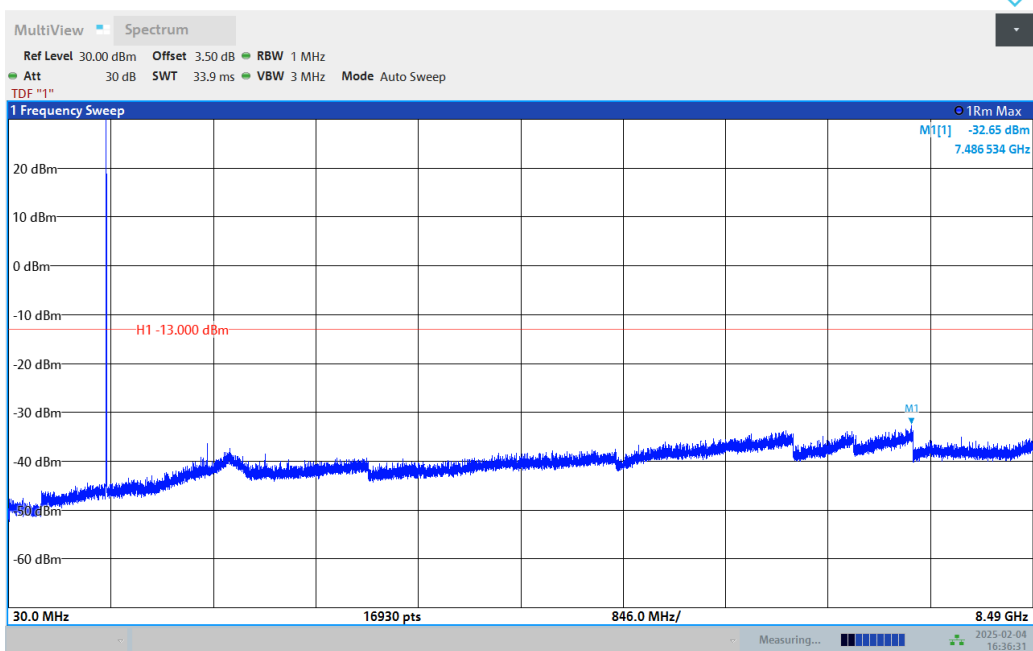
GPRS850-251-30~8490MHz



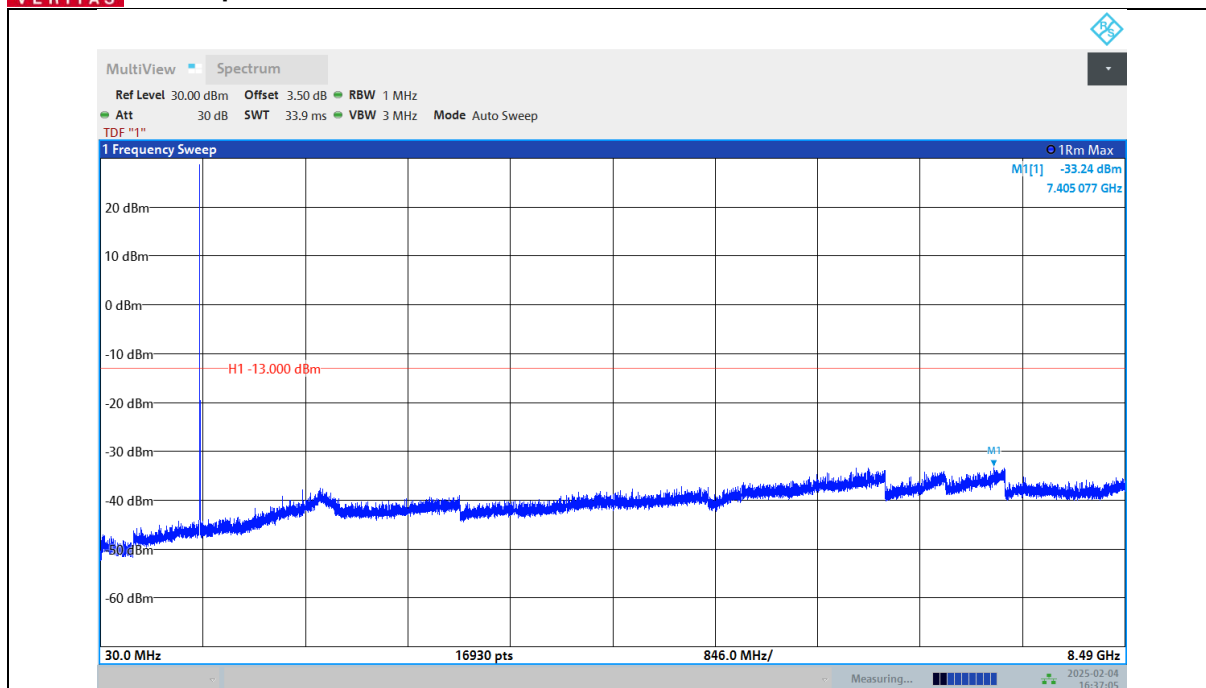
EGPRS850-128-30~8490MHz



EGPRS850-190-30~8490MHz



EGPRS850-251-30~8490MHz





FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	LV	NT	0.39	0.0005	±2.5	PASS
GSM850	190	NV	NT	5.49	0.0067	±2.5	PASS
GSM850	190	HV	NT	-1.35	-0.0016	±2.5	PASS
GSM850	128	LV	NT	-5.34	-0.0064	±2.5	PASS
GSM850	128	NV	NT	-3.25	-0.0039	±2.5	PASS
GSM850	128	HV	NT	1.63	0.0019	±2.5	PASS
GSM850	251	LV	NT	9.62	0.0113	±2.5	PASS
GSM850	251	NV	NT	-7.43	-0.0088	±2.5	PASS
GSM850	251	HV	NT	7.73	0.0091	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	2.92	0.0035	±2.5	PASS
GSM850	190	NV	-20	-1.44	-0.0017	±2.5	PASS
GSM850	190	NV	-10	-2.28	-0.0028	±2.5	PASS
GSM850	190	NV	0	6.27	0.0076	±2.5	PASS
GSM850	190	NV	10	-3.20	-0.0039	±2.5	PASS
GSM850	190	NV	20	9.71	0.0118	±2.5	PASS
GSM850	190	NV	30	-3.37	-0.0041	±2.5	PASS
GSM850	190	NV	40	4.65	0.0056	±2.5	PASS
GSM850	190	NV	50	-6.22	-0.0075	±2.5	PASS
GSM850	128	NV	-30	6.26	0.0075	±2.5	PASS
GSM850	128	NV	-20	5.27	0.0063	±2.5	PASS
GSM850	128	NV	-10	3.09	0.0037	±2.5	PASS
GSM850	128	NV	0	2.52	0.0030	±2.5	PASS
GSM850	128	NV	10	-9.69	-0.0116	±2.5	PASS
GSM850	128	NV	20	8.07	0.0096	±2.5	PASS
GSM850	128	NV	30	-5.68	-0.0068	±2.5	PASS
GSM850	128	NV	40	4.18	0.0050	±2.5	PASS
GSM850	128	NV	50	-3.12	-0.0037	±2.5	PASS
GSM850	251	NV	-30	-2.88	-0.0034	±2.5	PASS
GSM850	251	NV	-20	6.35	0.0075	±2.5	PASS
GSM850	251	NV	-10	-5.95	-0.0070	±2.5	PASS
GSM850	251	NV	0	-6.99	-0.0082	±2.5	PASS
GSM850	251	NV	10	-6.85	-0.0081	±2.5	PASS
GSM850	251	NV	20	8.68	0.0102	±2.5	PASS
GSM850	251	NV	30	7.47	0.0088	±2.5	PASS
GSM850	251	NV	40	8.90	0.0105	±2.5	PASS
GSM850	251	NV	50	3.85	0.0045	±2.5	PASS



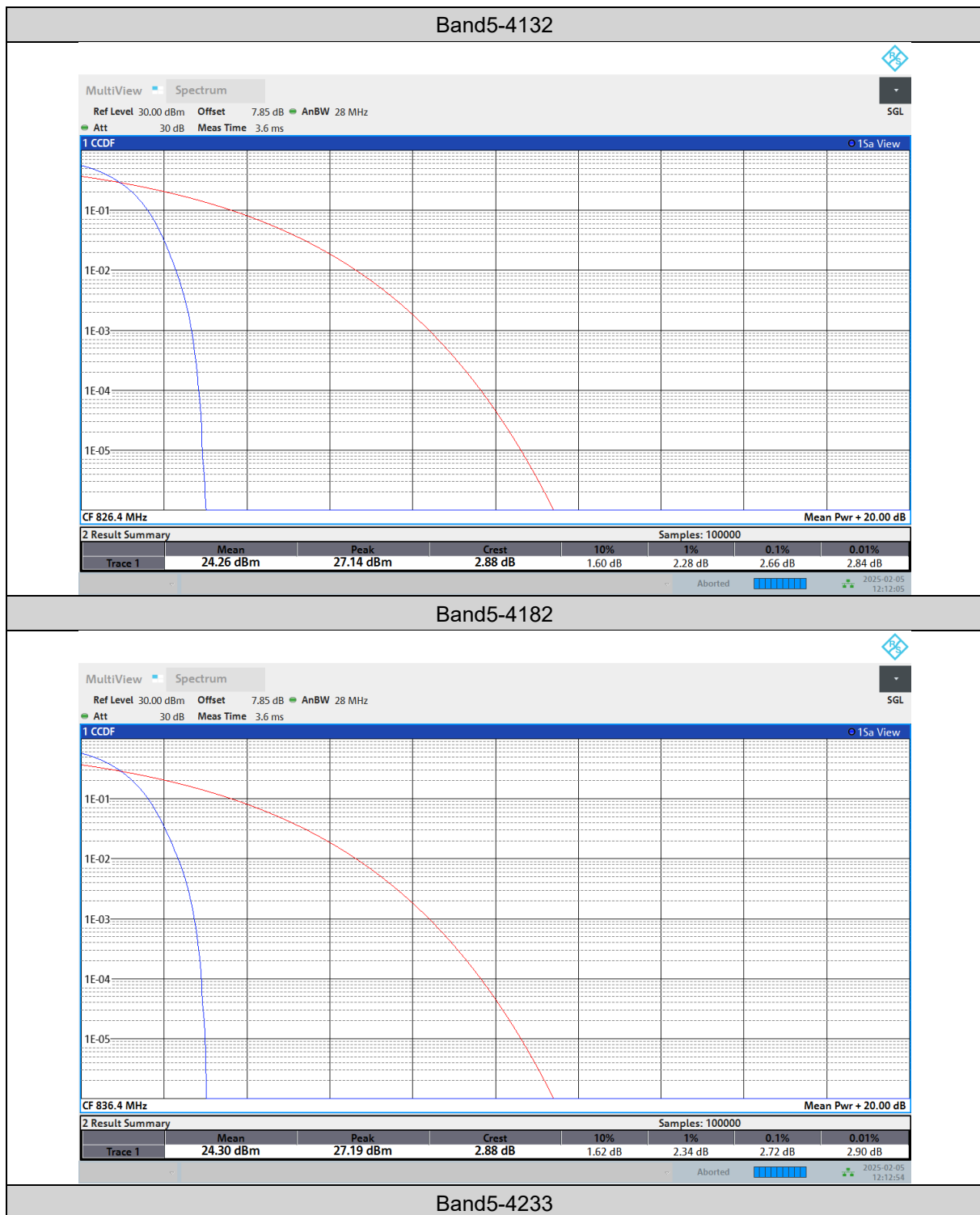
PEAK-TO-AVERAGE RATIO

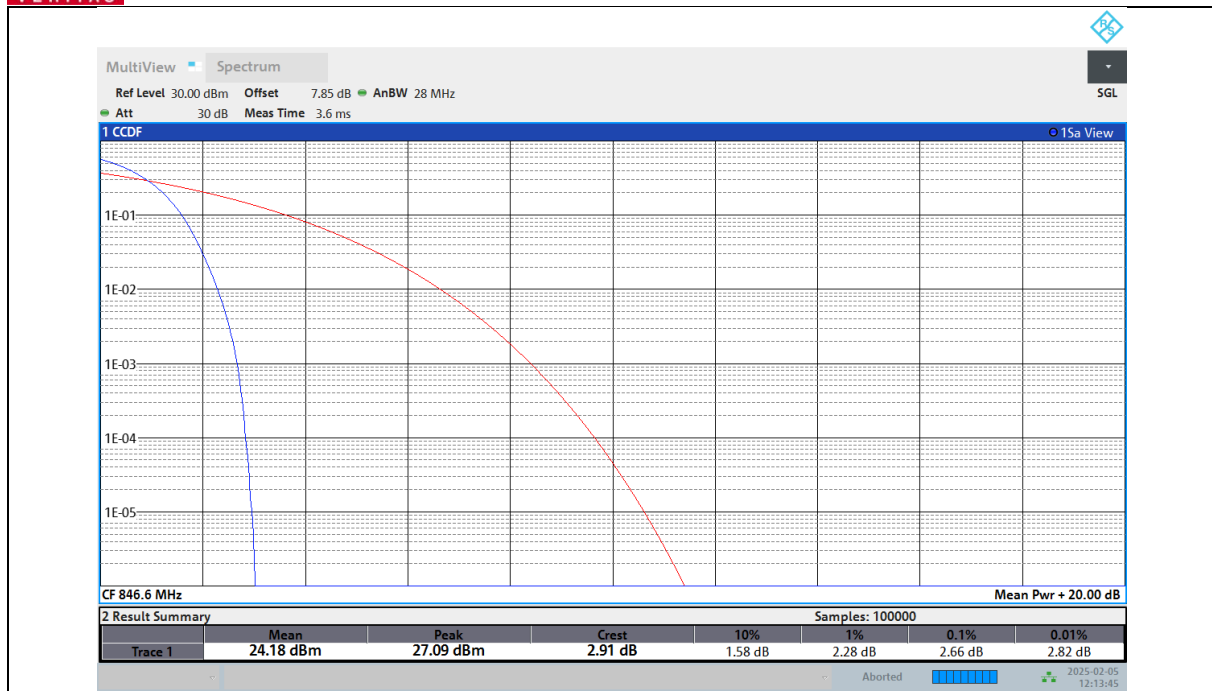
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	2.66	13	PASS
Band5	4182	2.71	13	PASS
Band5	4233	2.66	13	PASS



Test Graphs







26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

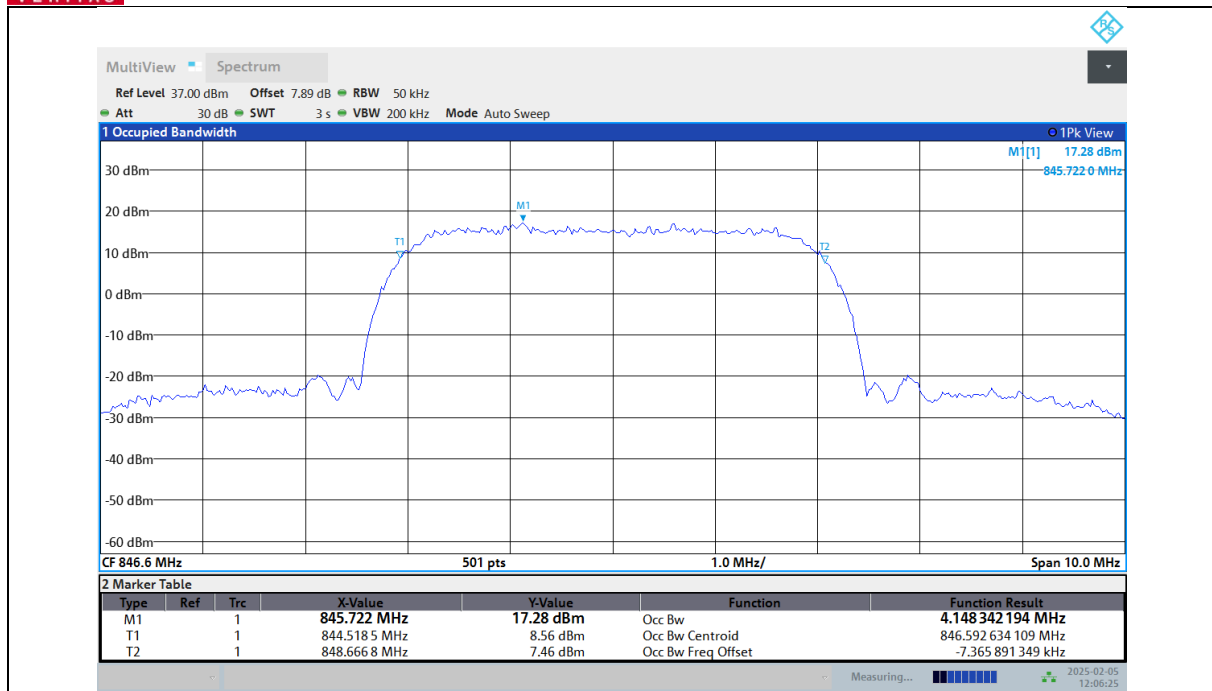
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	4132	4.146	4.71	PASS
Band5	4182	4.132	4.70	PASS
Band5	4233	4.148	4.72	PASS



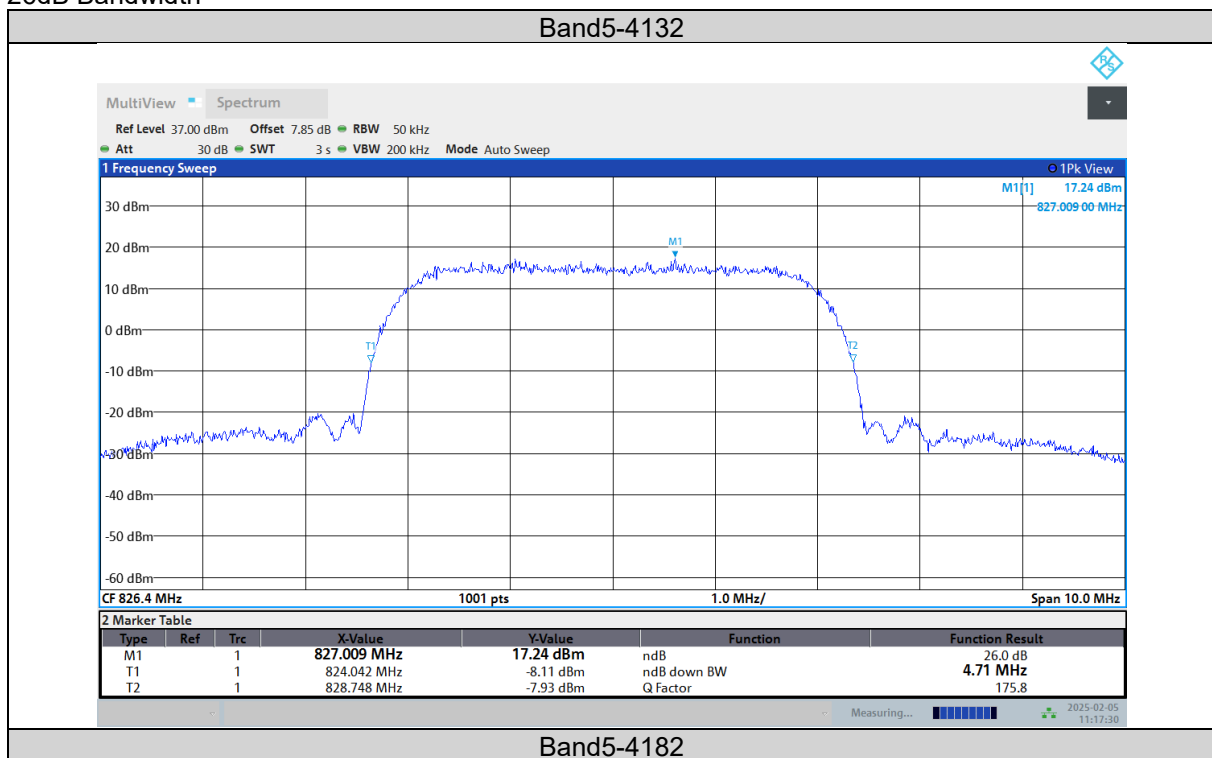
Test Graphs

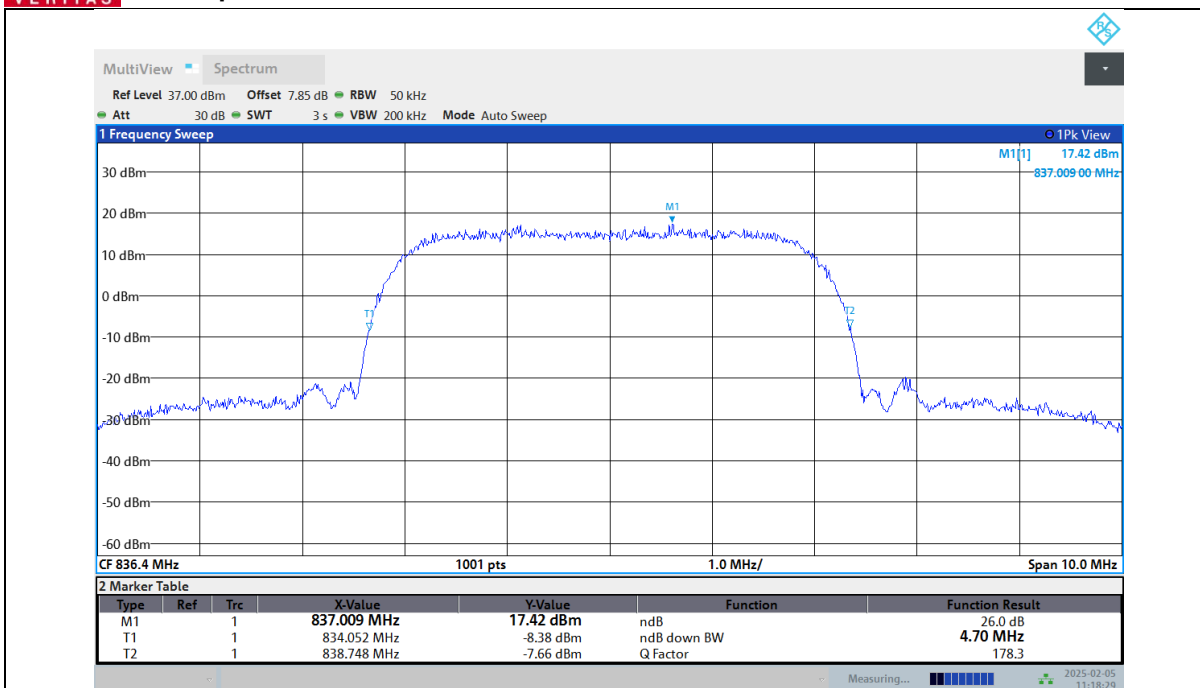
Occupied Bandwidth



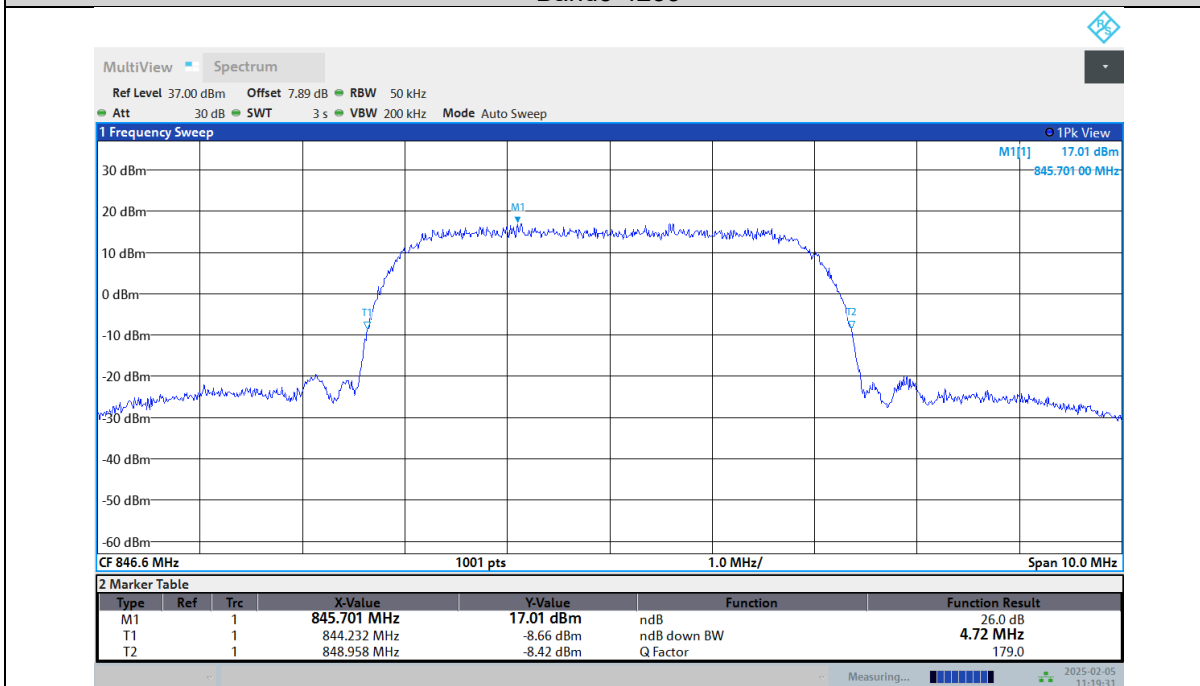


26dB Bandwidth





Band5-4233





Test Result

Band	Channel	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	See Graph	-13	PASS
Band5	4233	See Graph	-13	PASS



Test Graphs





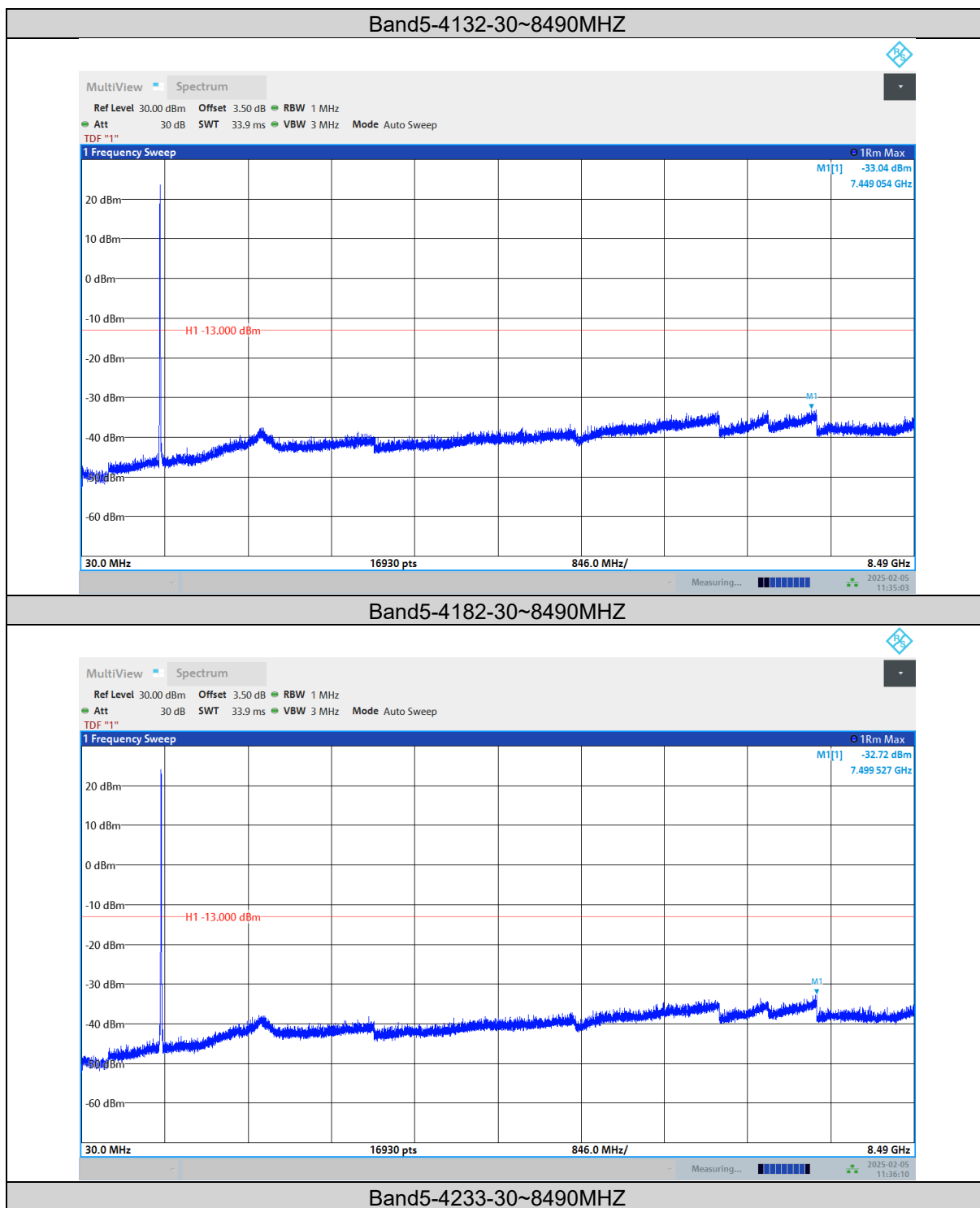
BUREAU VERITAS Test Report No.: PSU-NQN2412090210RF05
CONDUCTED SPURIOUS EMISSION

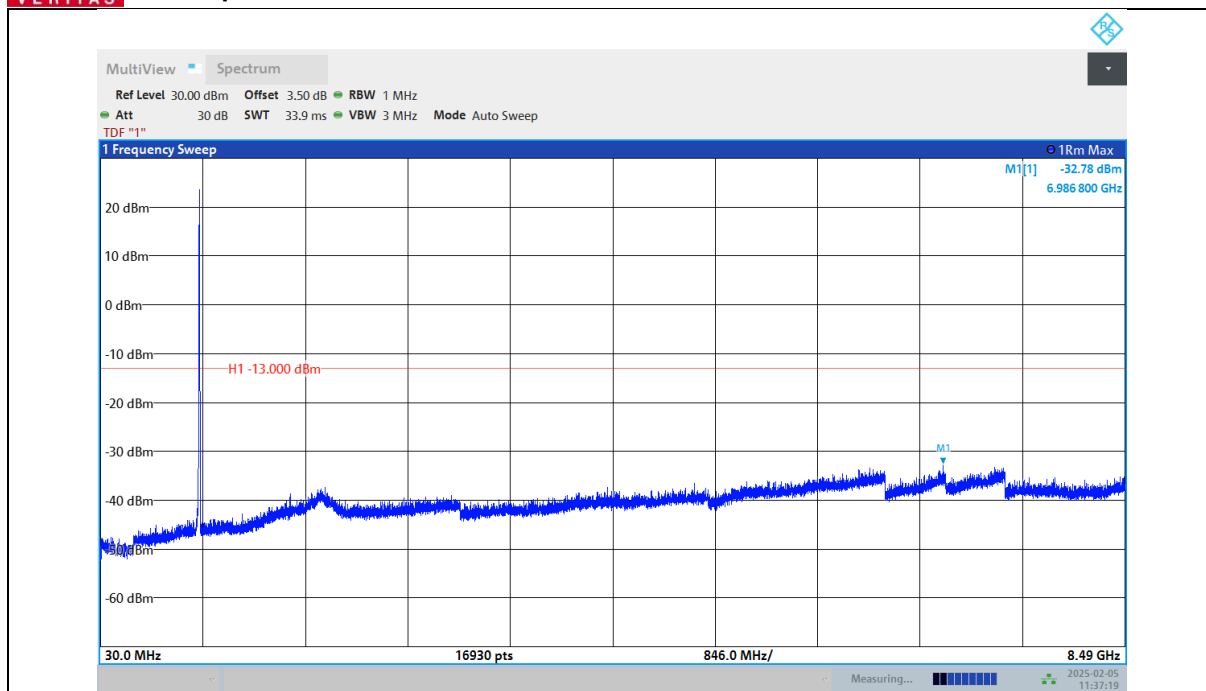
Test Result

Band	Channel	Frequency Range (Mhz)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~8490MHZ	See Graph	-13	PASS
Band5	4182	30~8490MHZ	See Graph	-13	PASS
Band5	4233	30~8490MHZ	See Graph	-13	PASS



Test Graphs







FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	-2.09	-0.0025	±2.5	PASS
Band5	4132	VN	NT	-4.71	-0.0057	±2.5	PASS
Band5	4132	VH	NT	-1.75	-0.0021	±2.5	PASS
Band5	4182	VL	NT	8.19	0.0098	±2.5	PASS
Band5	4182	VN	NT	6.73	0.0080	±2.5	PASS
Band5	4182	VH	NT	-7.24	-0.0087	±2.5	PASS
Band5	4233	VL	NT	-1.76	-0.0021	±2.5	PASS
Band5	4233	VN	NT	-7.47	-0.0088	±2.5	PASS
Band5	4233	VH	NT	-7.56	-0.0089	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	-5.84	-0.0071	±2.5	PASS
Band5	4132	NV	-20	-5.49	-0.0066	±2.5	PASS
Band5	4132	NV	-10	6.81	0.0082	±2.5	PASS
Band5	4132	NV	0	2.94	0.0036	±2.5	PASS
Band5	4132	NV	10	3.29	0.0040	±2.5	PASS
Band5	4132	NV	20	3.72	0.0045	±2.5	PASS
Band5	4132	NV	30	9.59	0.0116	±2.5	PASS
Band5	4132	NV	40	-9.48	-0.0115	±2.5	PASS
Band5	4132	NV	50	-6.66	-0.0081	±2.5	PASS
Band5	4182	NV	-30	-5.00	-0.0060	±2.5	PASS
Band5	4182	NV	-20	3.01	0.0036	±2.5	PASS
Band5	4182	NV	-10	8.14	0.0097	±2.5	PASS
Band5	4182	NV	0	-7.24	-0.0087	±2.5	PASS
Band5	4182	NV	10	-1.63	-0.0019	±2.5	PASS
Band5	4182	NV	20	-6.69	-0.0080	±2.5	PASS
Band5	4182	NV	30	-2.75	-0.0033	±2.5	PASS
Band5	4182	NV	40	-3.41	-0.0041	±2.5	PASS
Band5	4182	NV	50	-3.22	-0.0038	±2.5	PASS
Band5	4233	NV	-30	-0.15	-0.0002	±2.5	PASS
Band5	4233	NV	-20	-1.92	-0.0023	±2.5	PASS
Band5	4233	NV	-10	4.07	0.0048	±2.5	PASS
Band5	4233	NV	0	5.30	0.0063	±2.5	PASS
Band5	4233	NV	10	-3.46	-0.0041	±2.5	PASS
Band5	4233	NV	20	-3.28	-0.0039	±2.5	PASS
Band5	4233	NV	30	-3.02	-0.0036	±2.5	PASS
Band5	4233	NV	40	9.04	0.0107	±2.5	PASS
Band5	4233	NV	50	-6.70	-0.0079	±2.5	PASS



Test Report No.: PSU-NQN2412090210RF05



LTE BAND5

PEAK-TO-AVERAGE RATIO(CCDF)

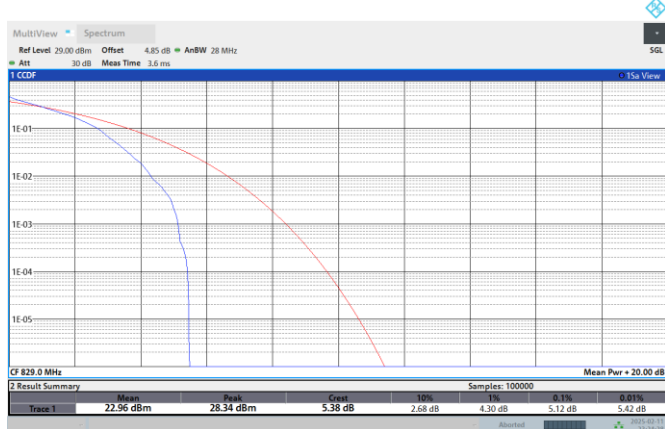
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	1RB#0	5.12	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.58	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.70	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.32	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.20	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.42	13	PASS

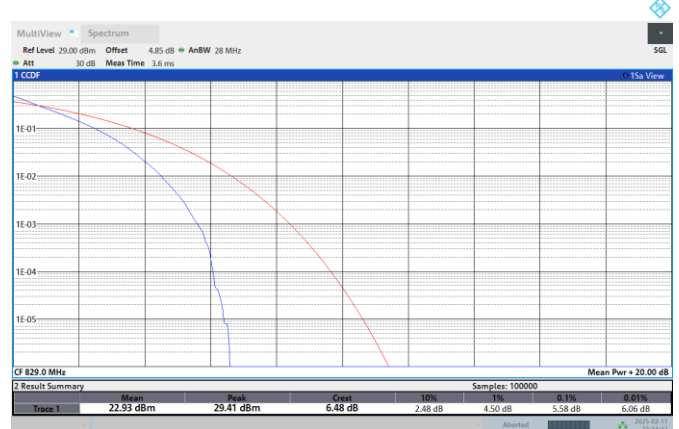


Test Graphs

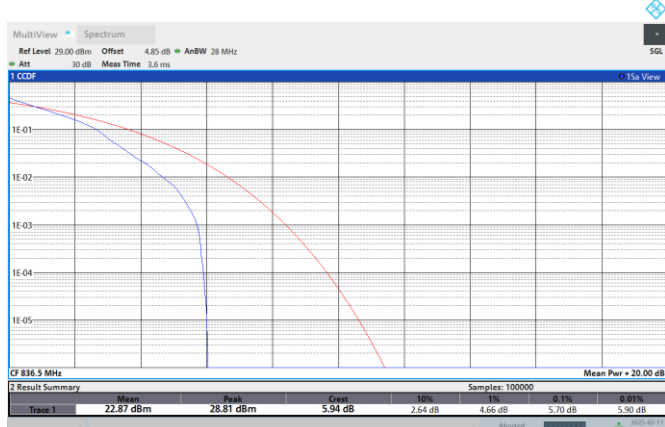
Band5-10MHz-QPSK-20450-1RB#0



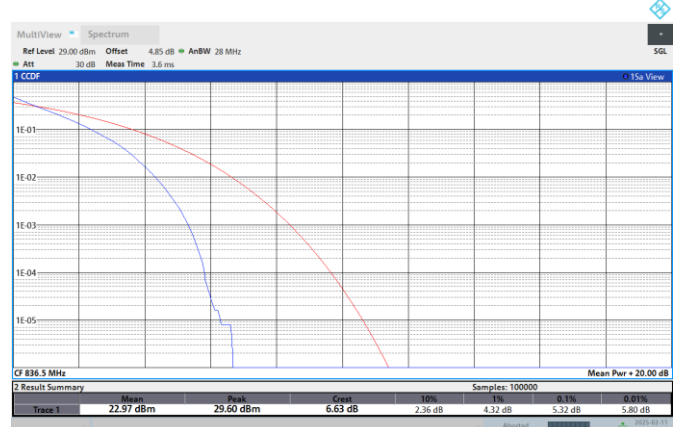
Band5-10MHz-QPSK-20450-6RB#0



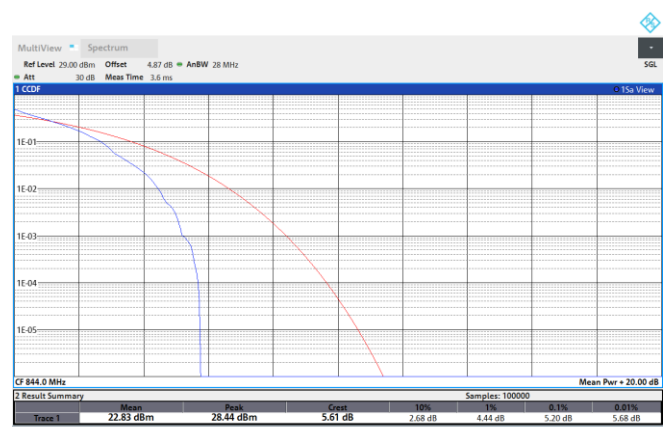
Band5-10MHz-QPSK-20525-1RB#0



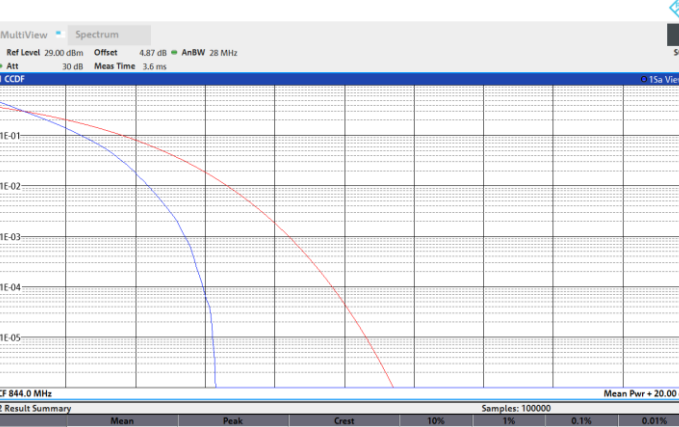
Band5-10MHz-QPSK-20525-6RB#0



Band5-10MHz-QPSK-20600-1RB#0



Band5-10MHz-QPSK-20600-6RB#0





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.36	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.095	1.36	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.095	1.34	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.093	1.33	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.090	1.33	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.094	1.35	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.093	1.30	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.095	1.33	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.096	1.35	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.097	1.34	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.067	1.31	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.702	3.02	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.700	3.02	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.702	3.02	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.697	3.00	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.698	2.99	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.706	3.03	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.699	3.01	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.700	3.02	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.701	3.03	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.704	3.03	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.698	3.00	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.699	3.04	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.494	4.92	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.489	5.04	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.495	4.99	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.488	4.99	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.490	5.00	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.500	5.02	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.496	5.04	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.488	4.99	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.496	5.00	PASS
Band5	5MHz	256QAM	20425	25RB#0	4.502	5.07	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.496	4.99	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.497	4.96	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.994	9.83	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.960	9.86	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.965	9.89	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.969	9.80	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.954	9.80	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.960	9.80	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.976	9.86	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.940	9.80	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.955	9.86	PASS



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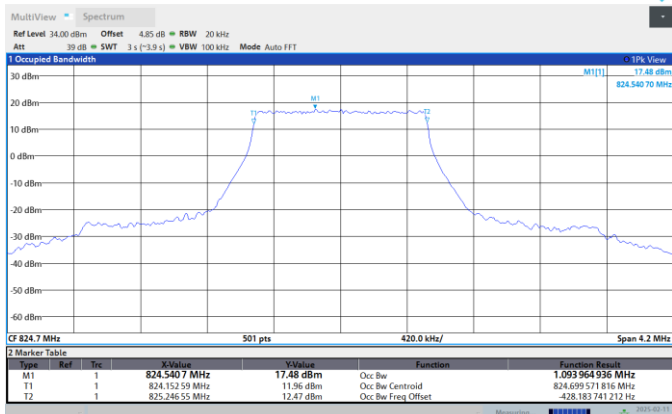
Test Report No.: PSU-NQN2412090210RF05

Band5	10MHz	256QAM	20450	50RB#0	8.966	9.89	PASS
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Band5	10MHz	256QAM	20600	50RB#0	8.960	9.86	PASS

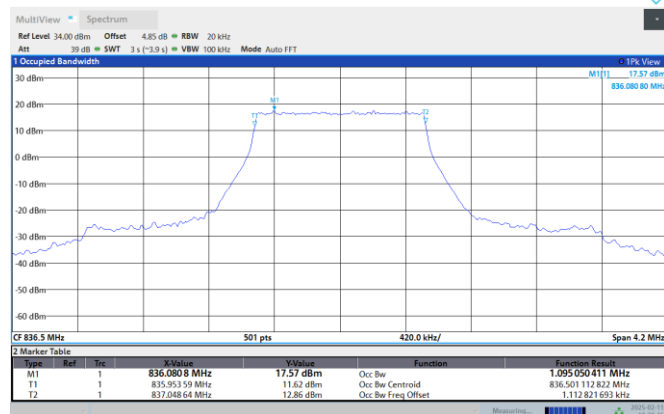
Test Graphs

Occupied Bandwidth

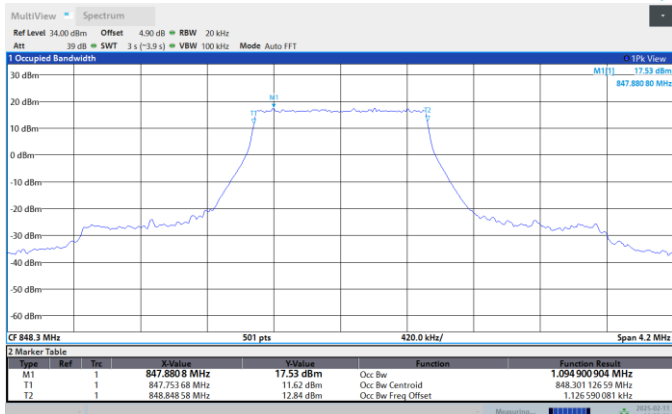
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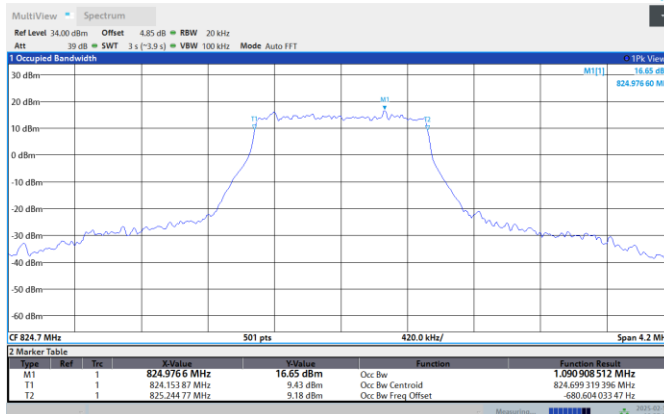
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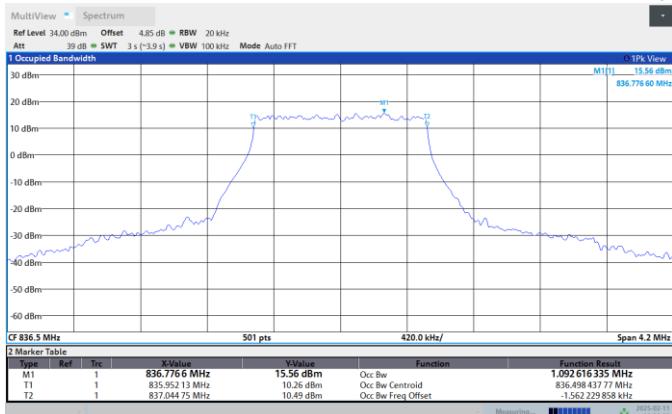
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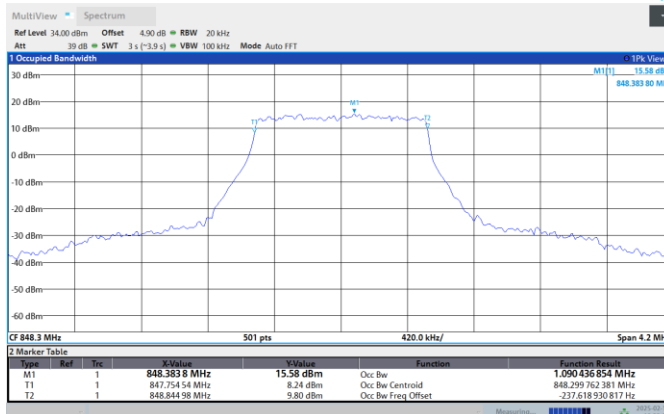
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Band5-1.4MHz-16QAM-20525-6RB#0



Band5-1.4MHz-16QAM-20643-6RB#0



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

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

Huarui 7layers High Technology
(Suzhou) Co., Ltd.

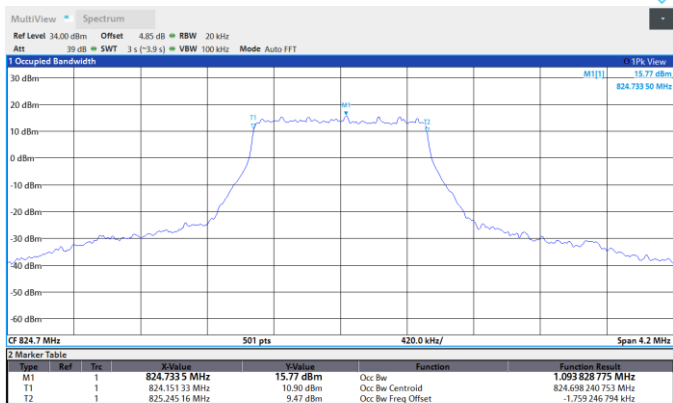
Tower N, Innovation Center, 88 Zuyi Road, High-tech District,
Suzhou City, Anhui Province

Tel: +86 (0557)
368 1008

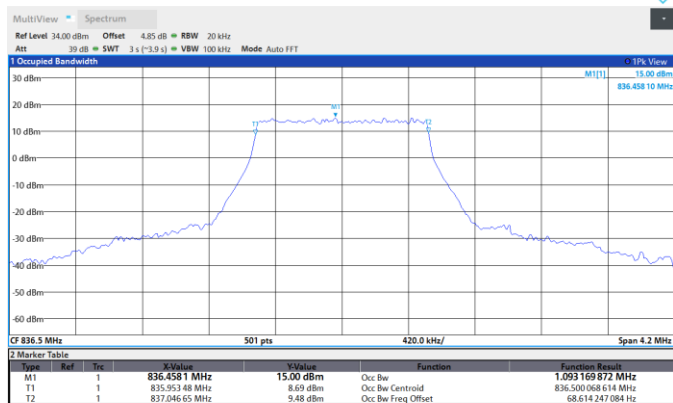


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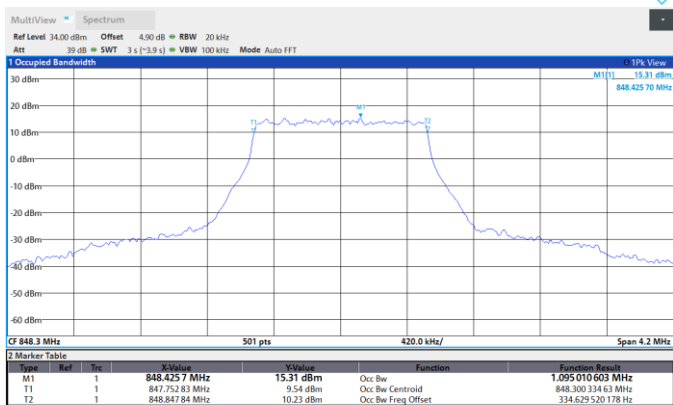
Test Report No.: PSU-NQN2412090210RF05



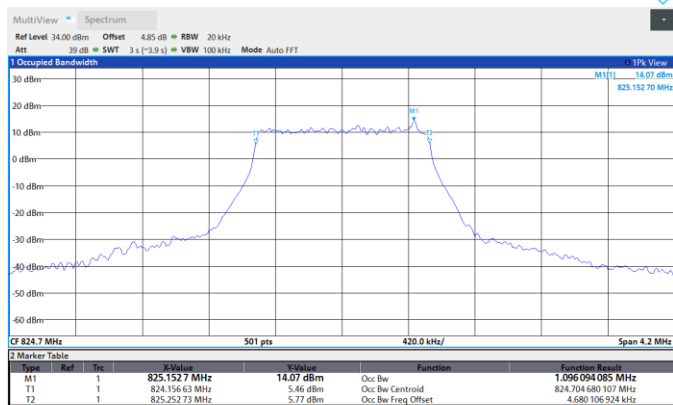
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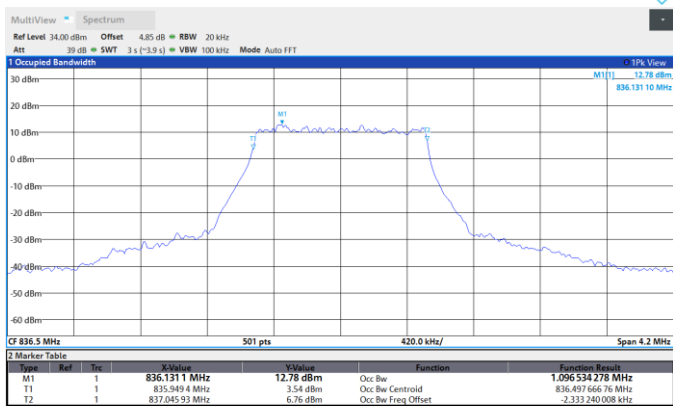
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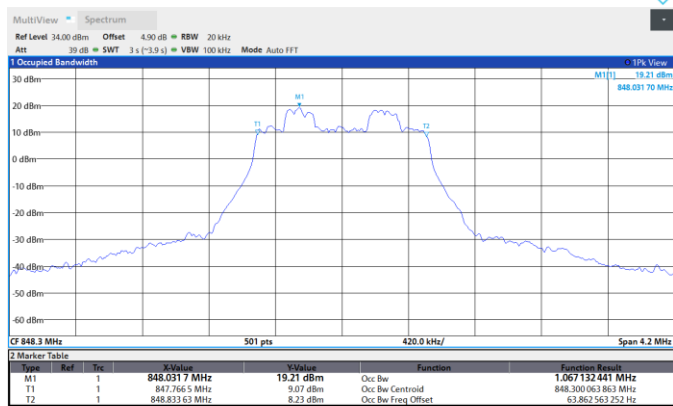
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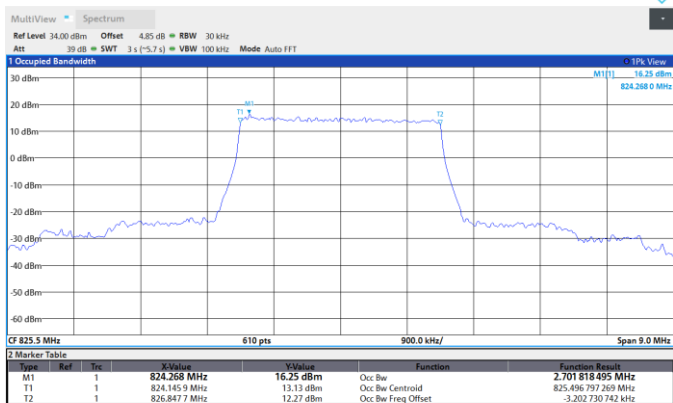
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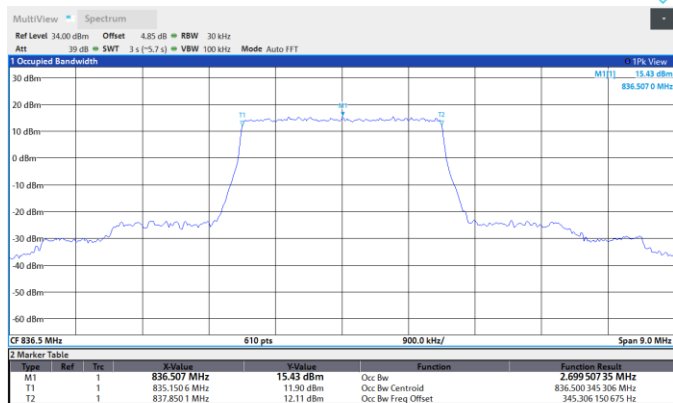
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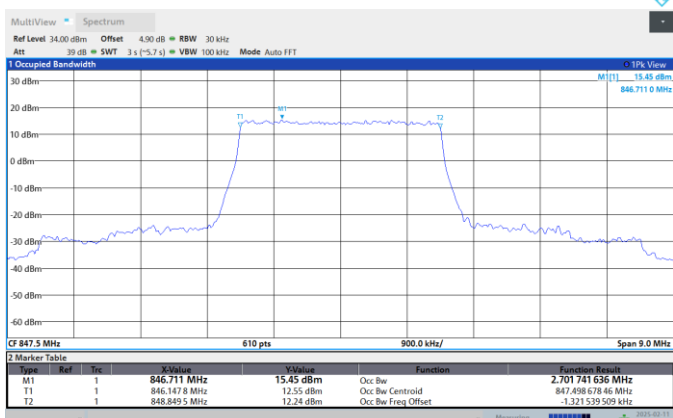
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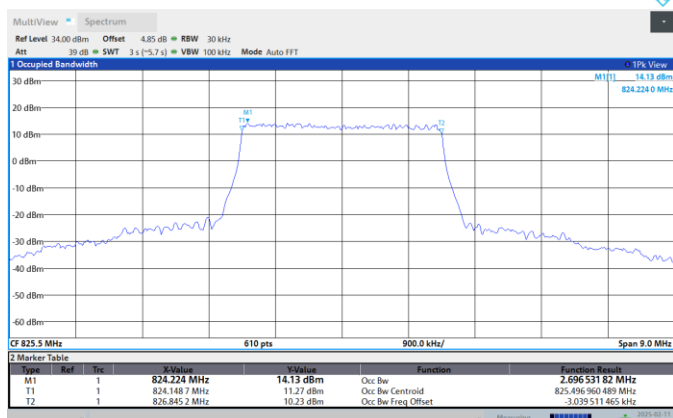
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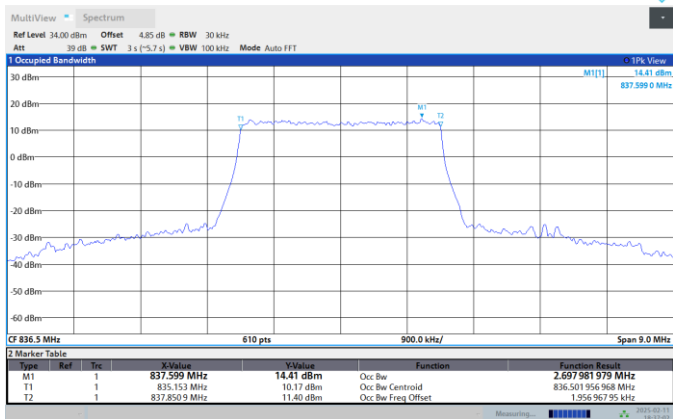
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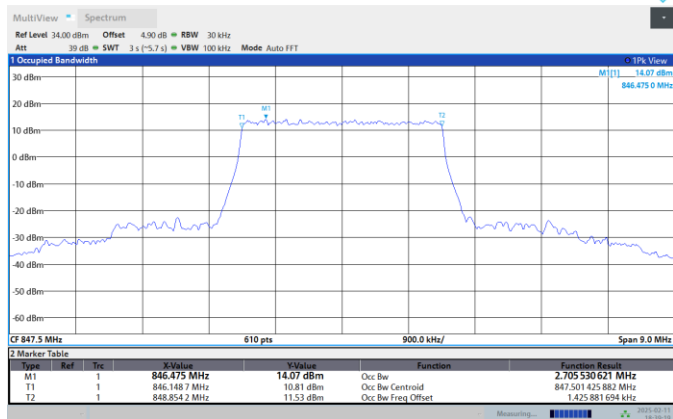
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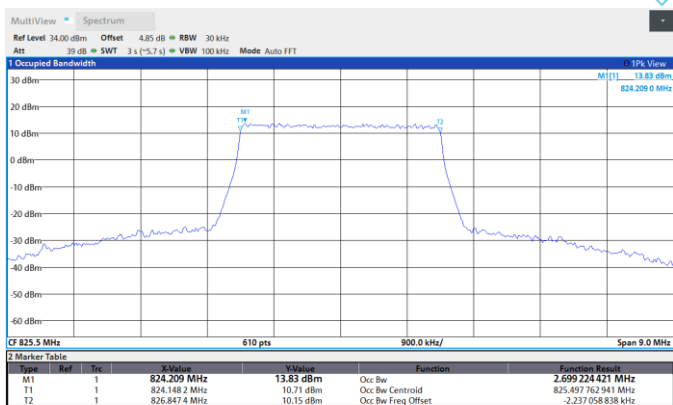


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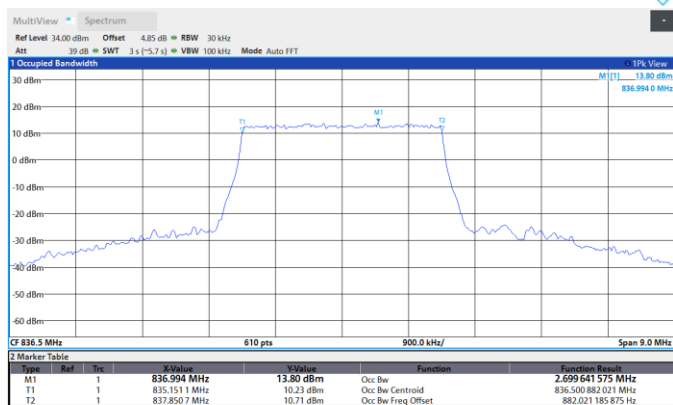


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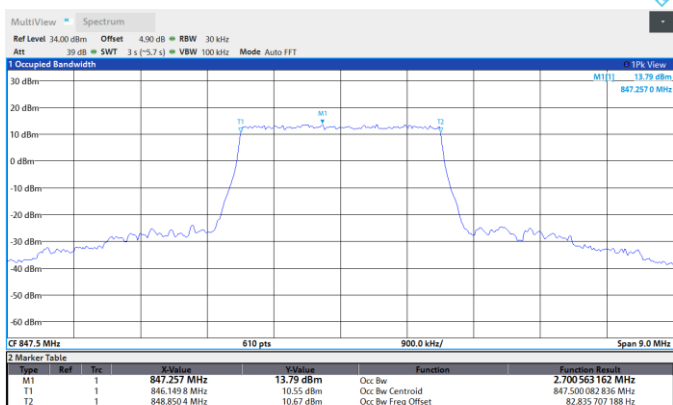
Test Report No.: PSU-NQN2412090210RF05



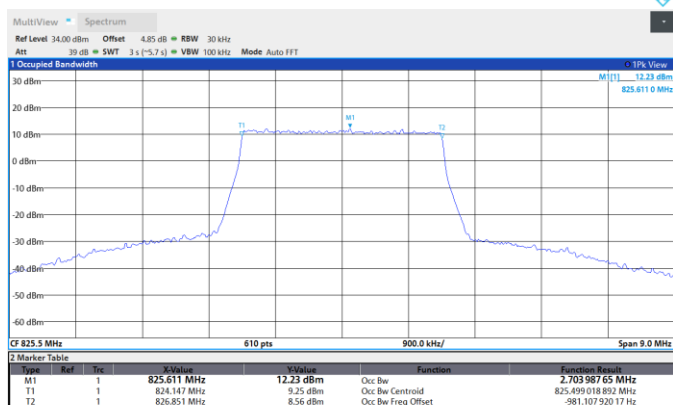
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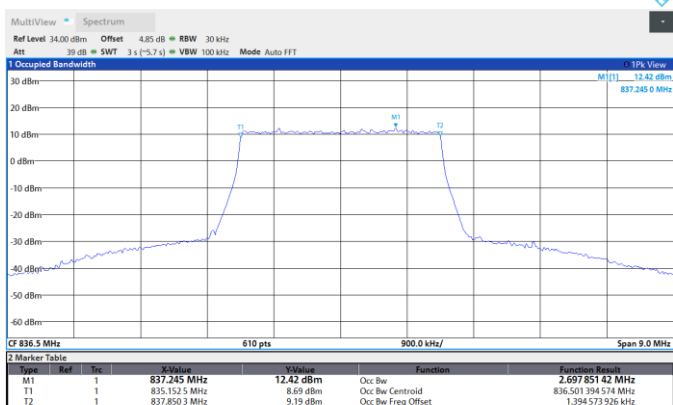
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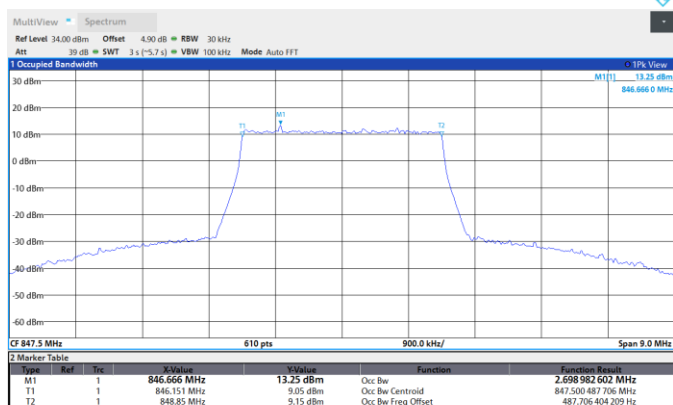
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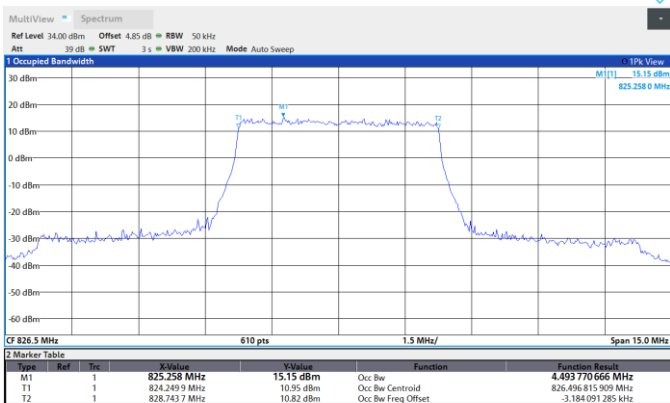


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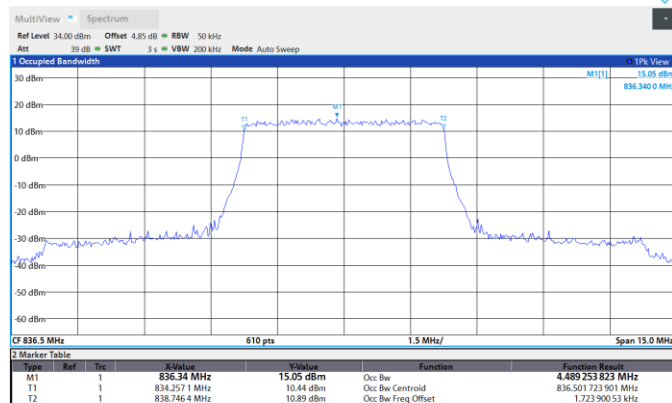


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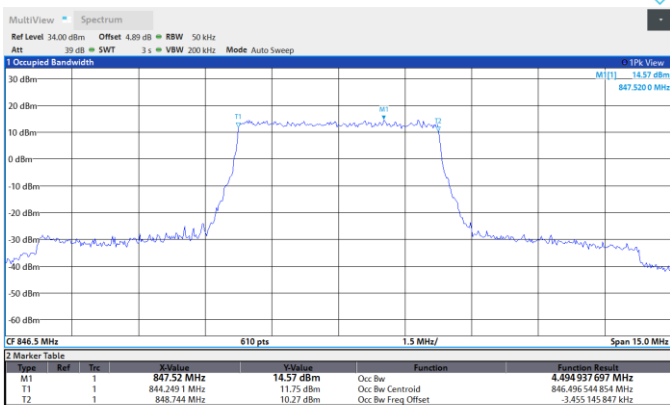
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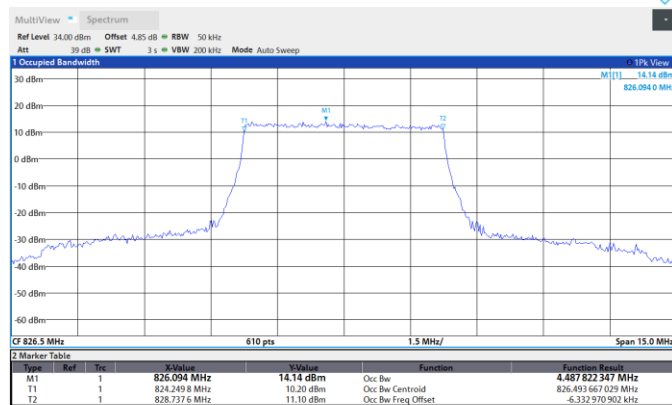
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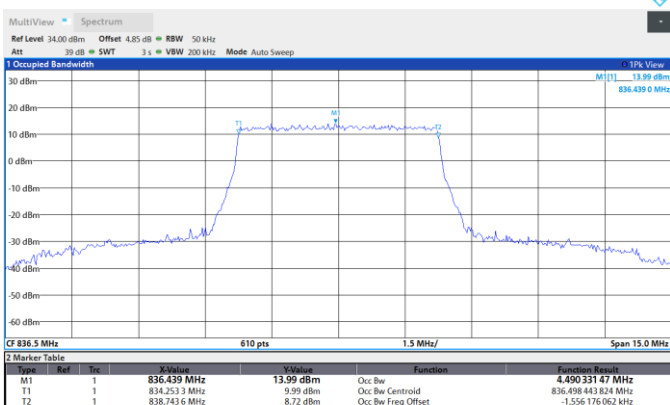
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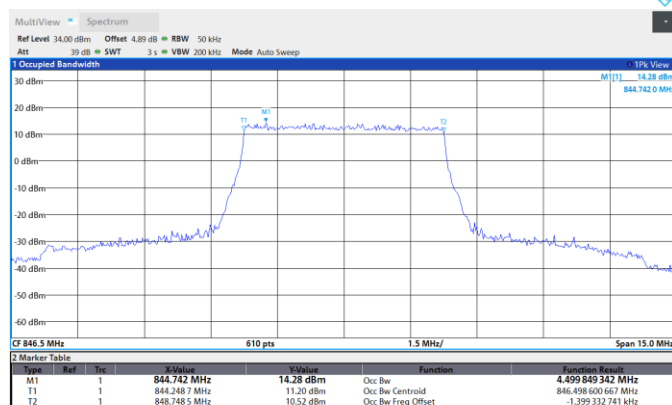
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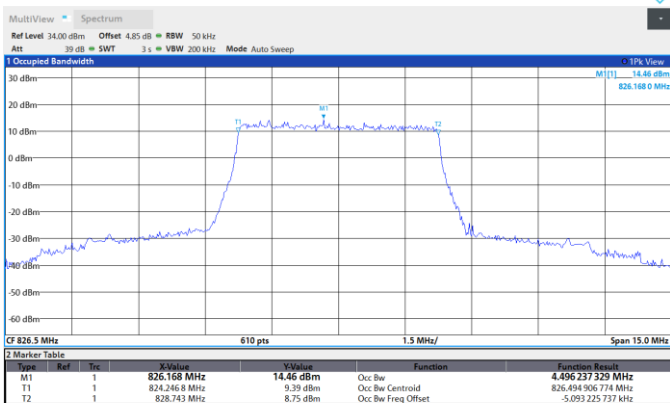
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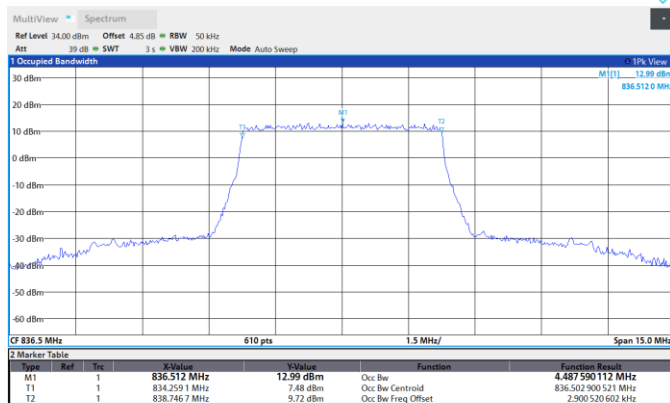
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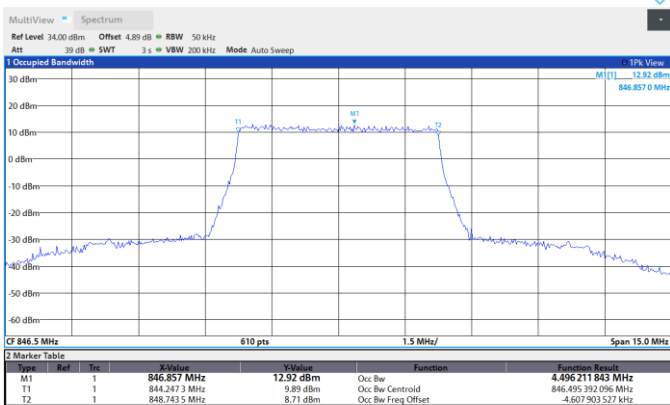
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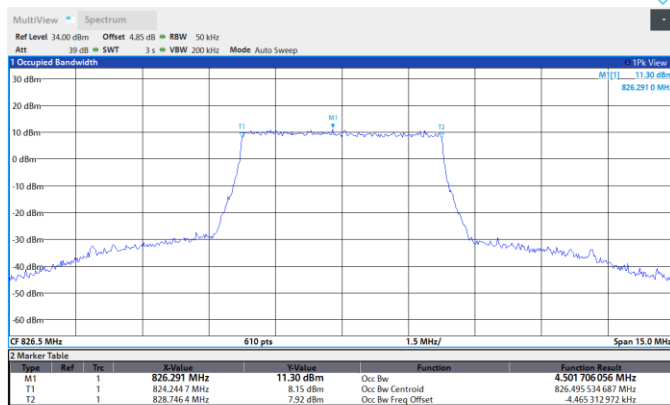
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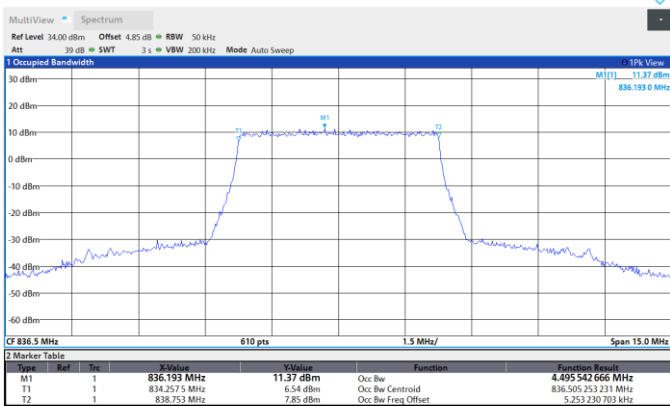
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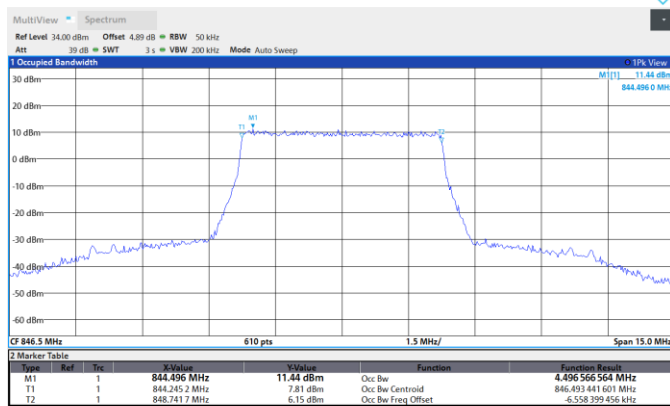
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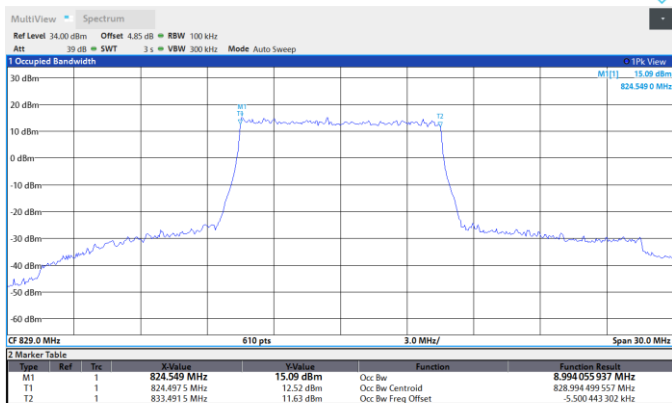
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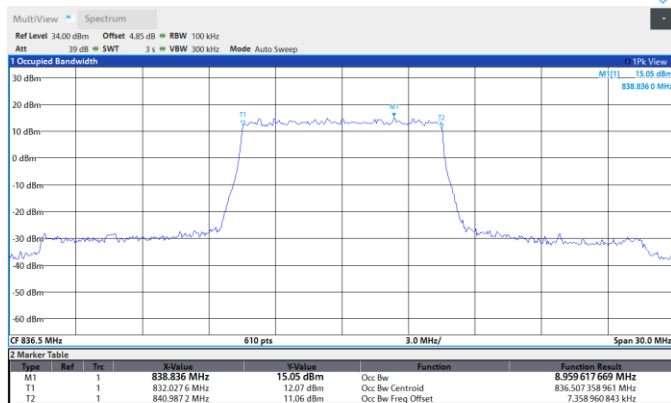
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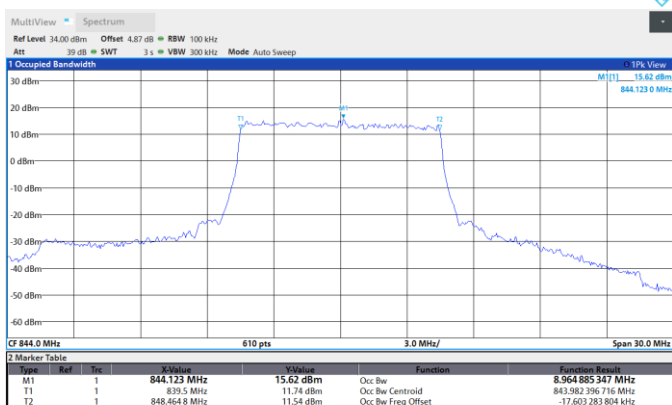
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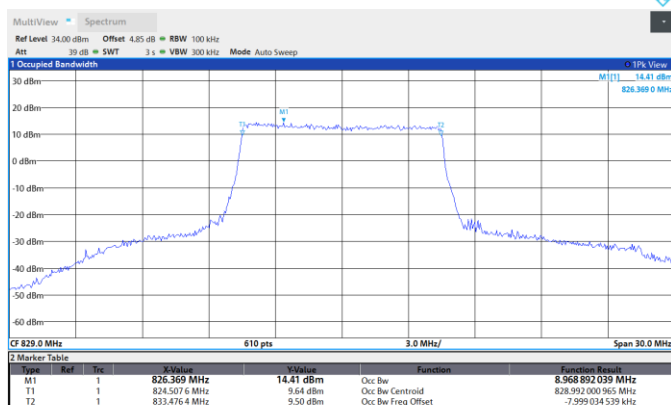
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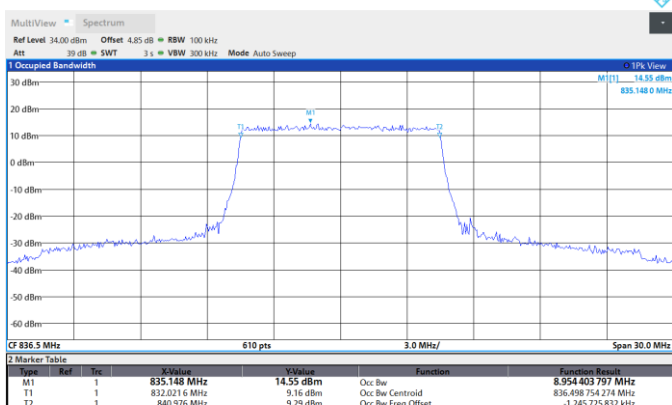
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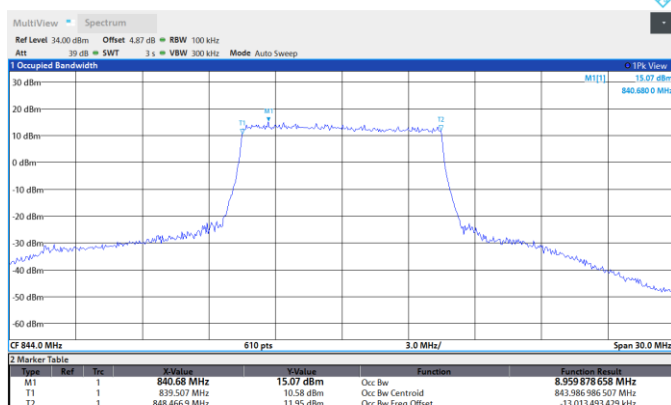
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Band5-10MHz-16QAM-20600-50RB#0



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

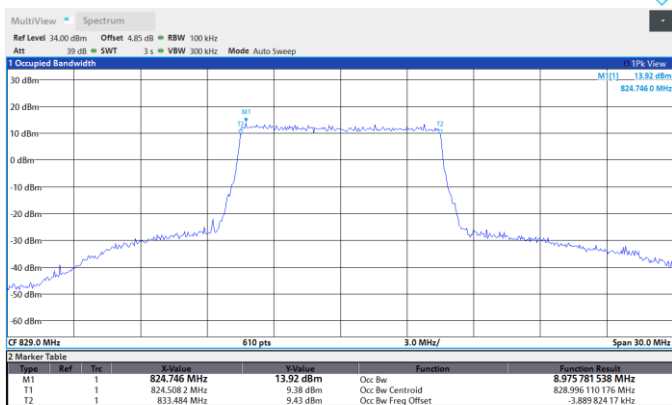


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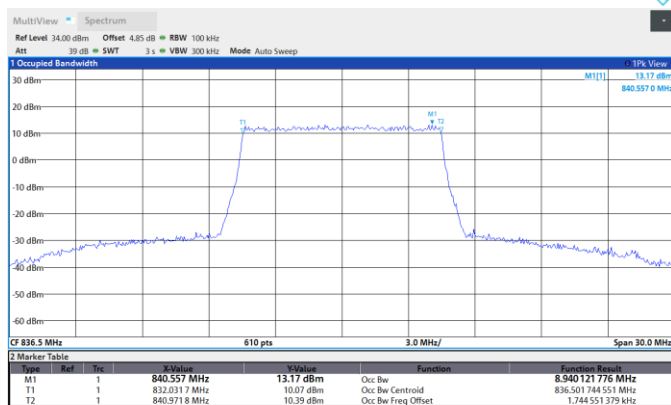


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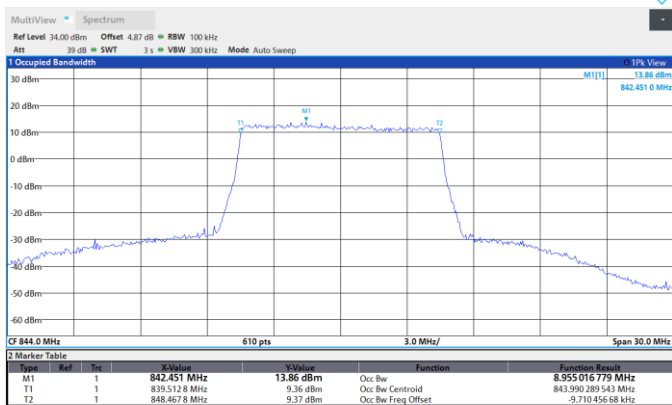
Test Report No.: PSU-NQN2412090210RF05



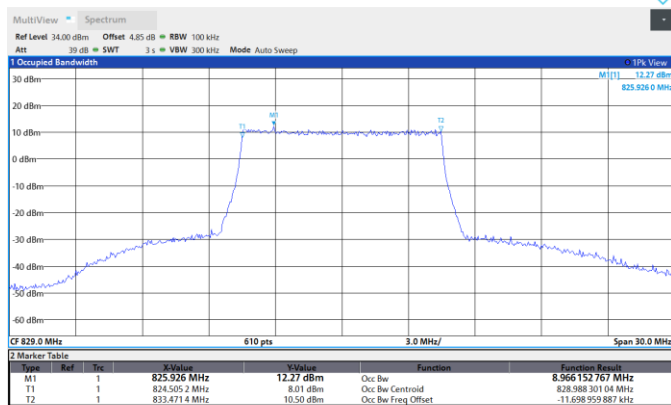
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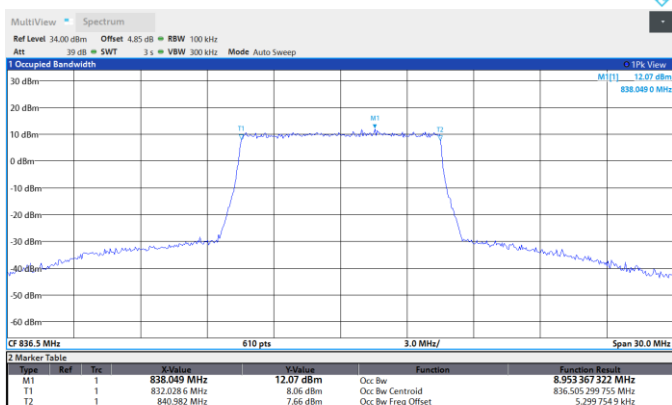
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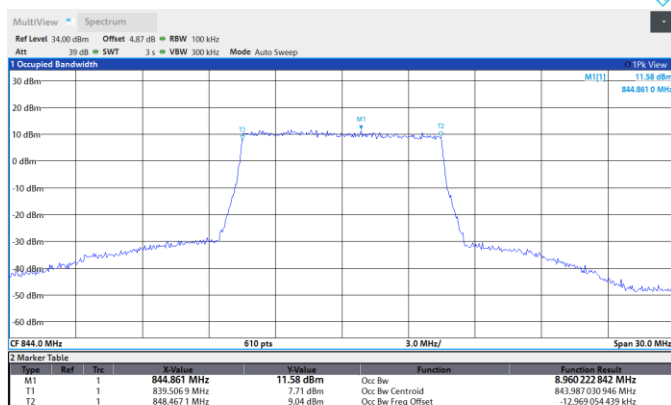
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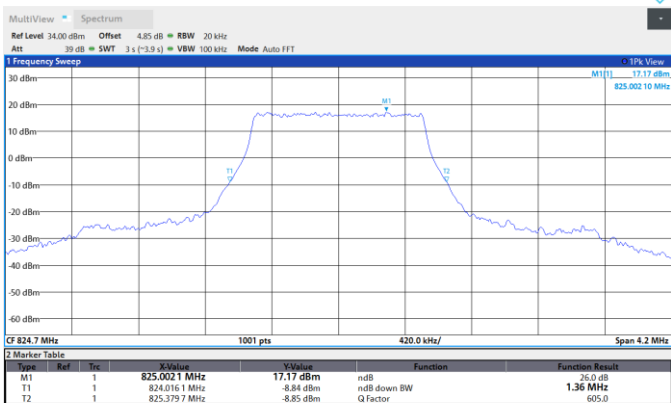


26dB Bandwidth

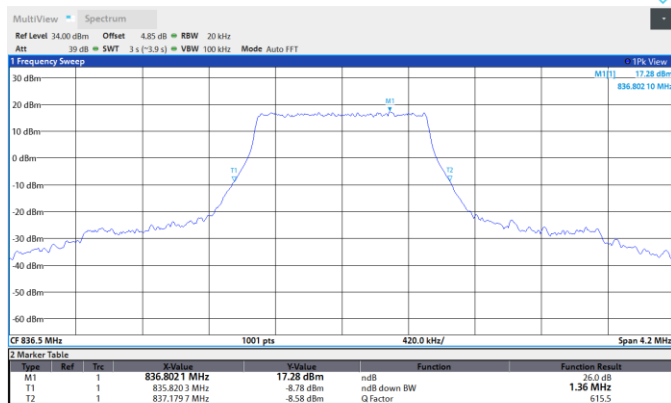


Band5-1.4MHz-QPSK-20407-6RB#0

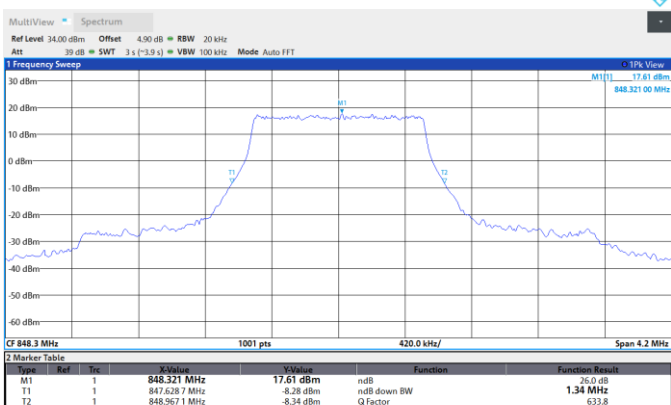
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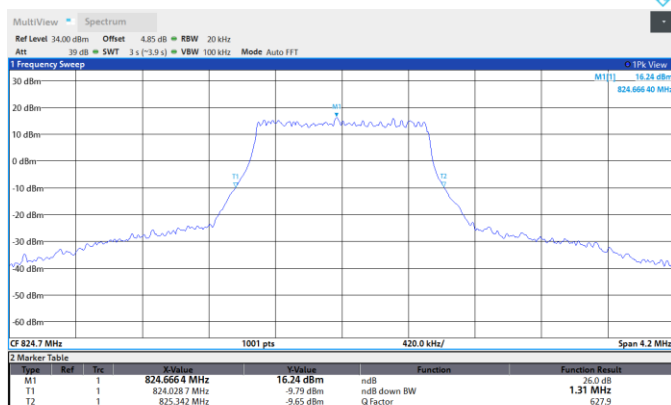
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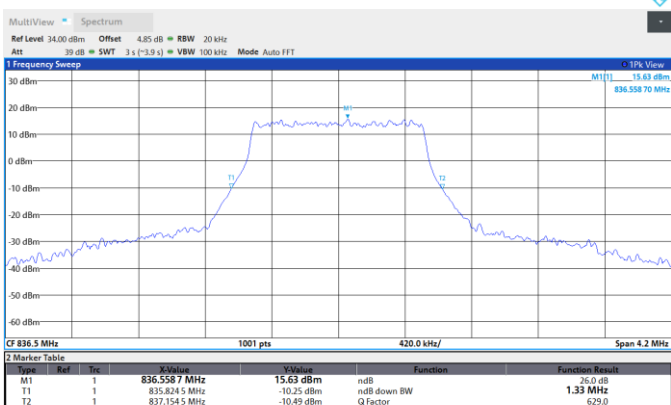
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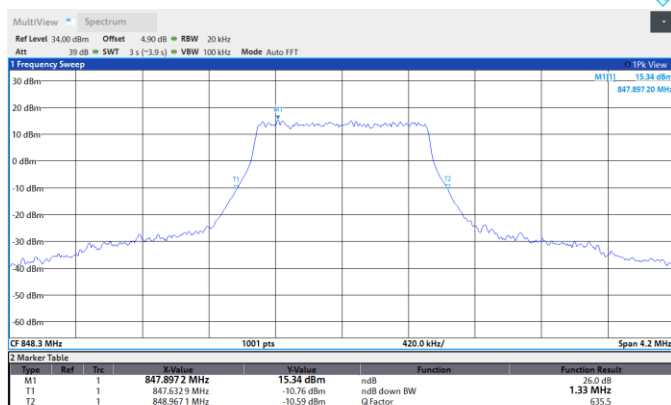
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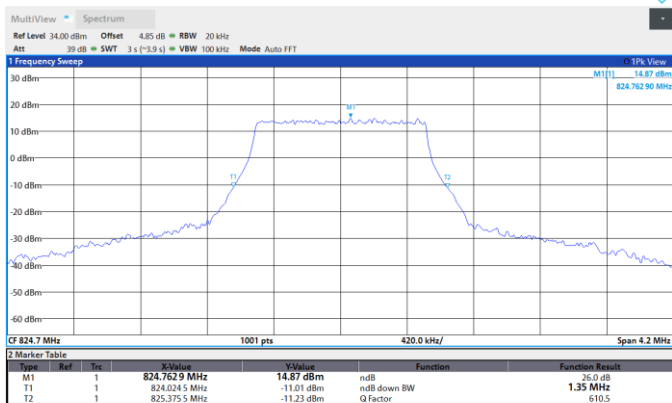


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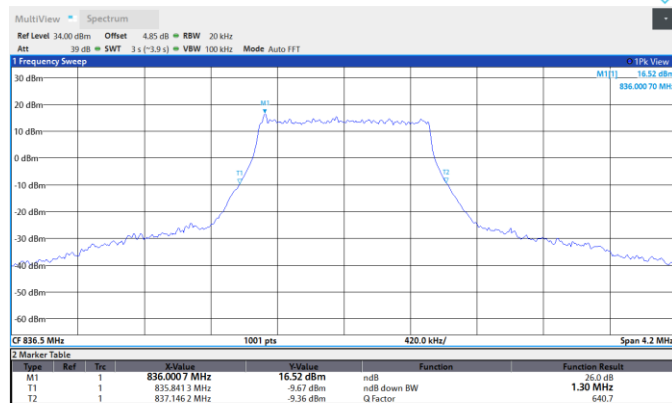


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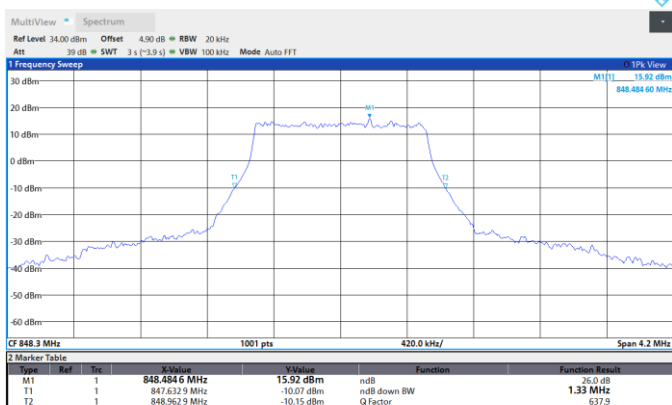
Test Report No.: PSU-NQN2412090210RF05



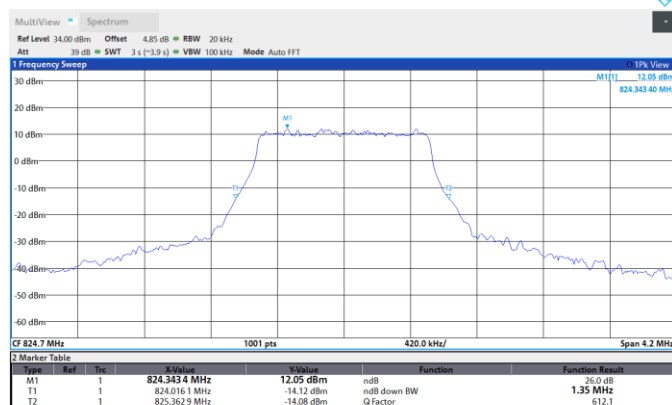
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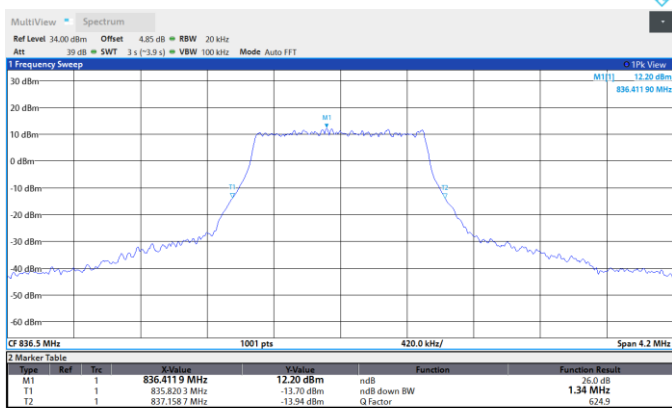
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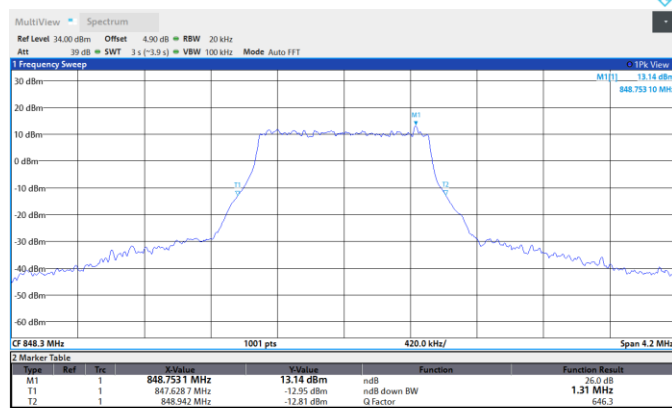
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Band5-1.4MHz-256QAM-20643-6RB#0



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



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