



BUREAU VERITAS

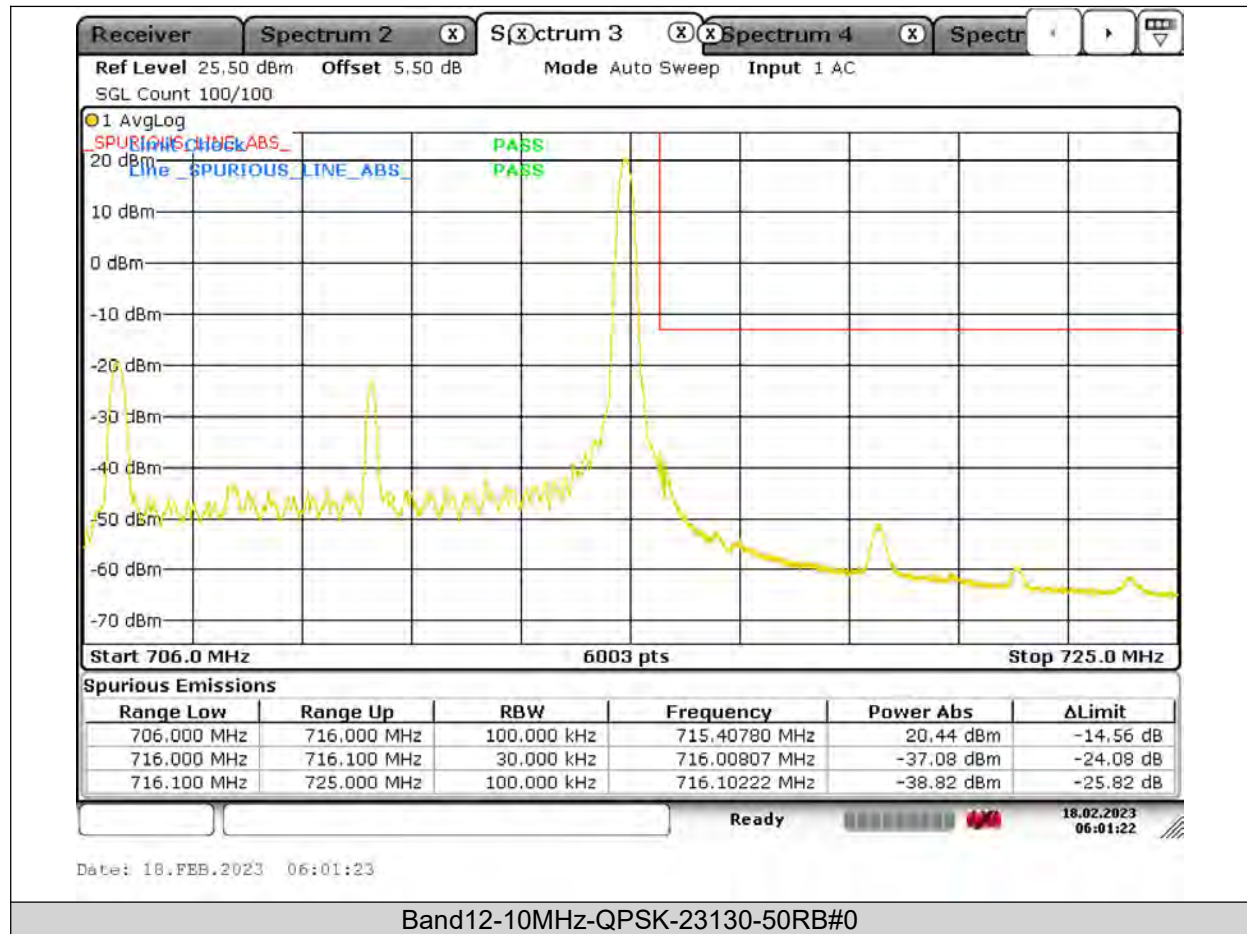
Test Report No.: PSU-QSU2308280414RF03





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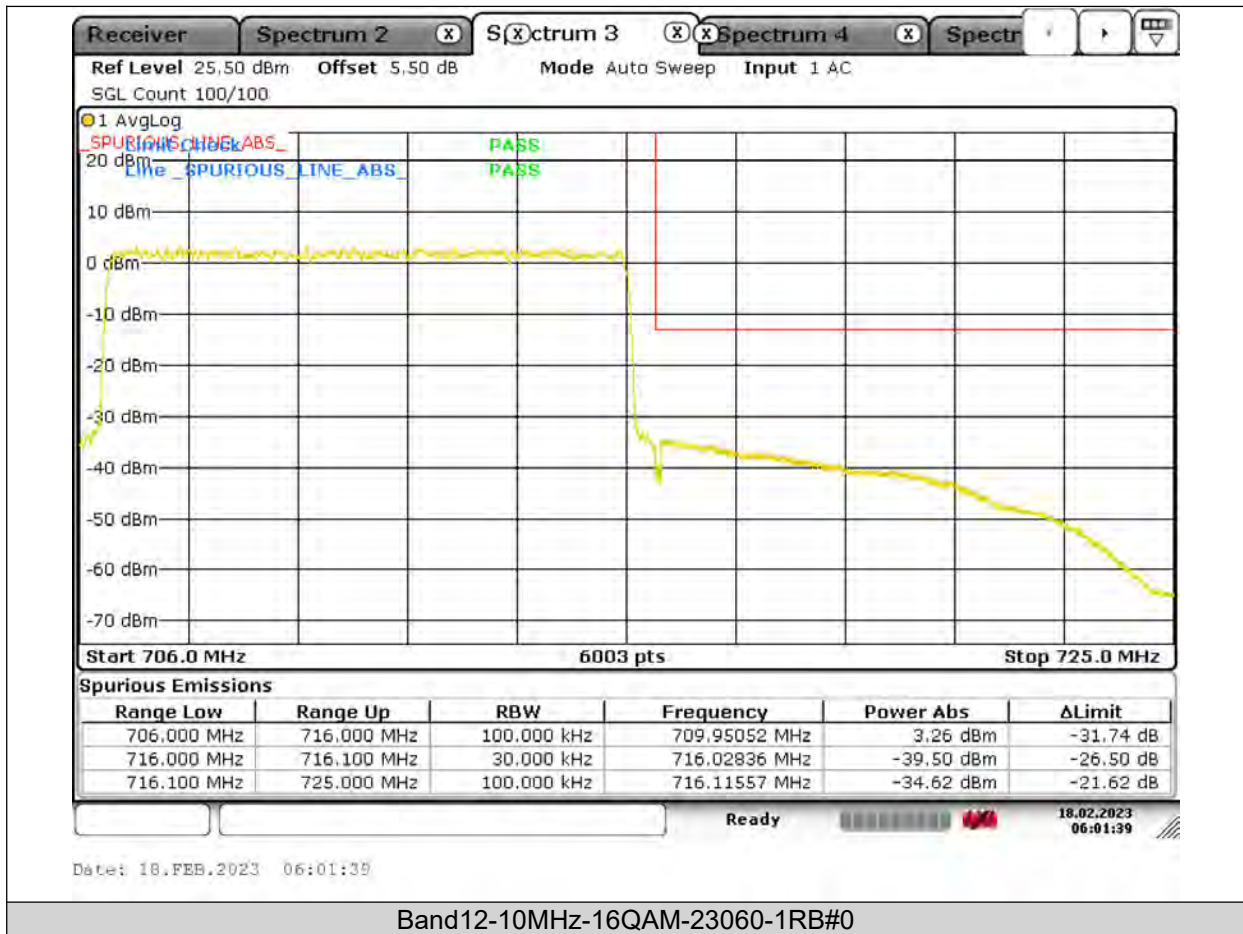
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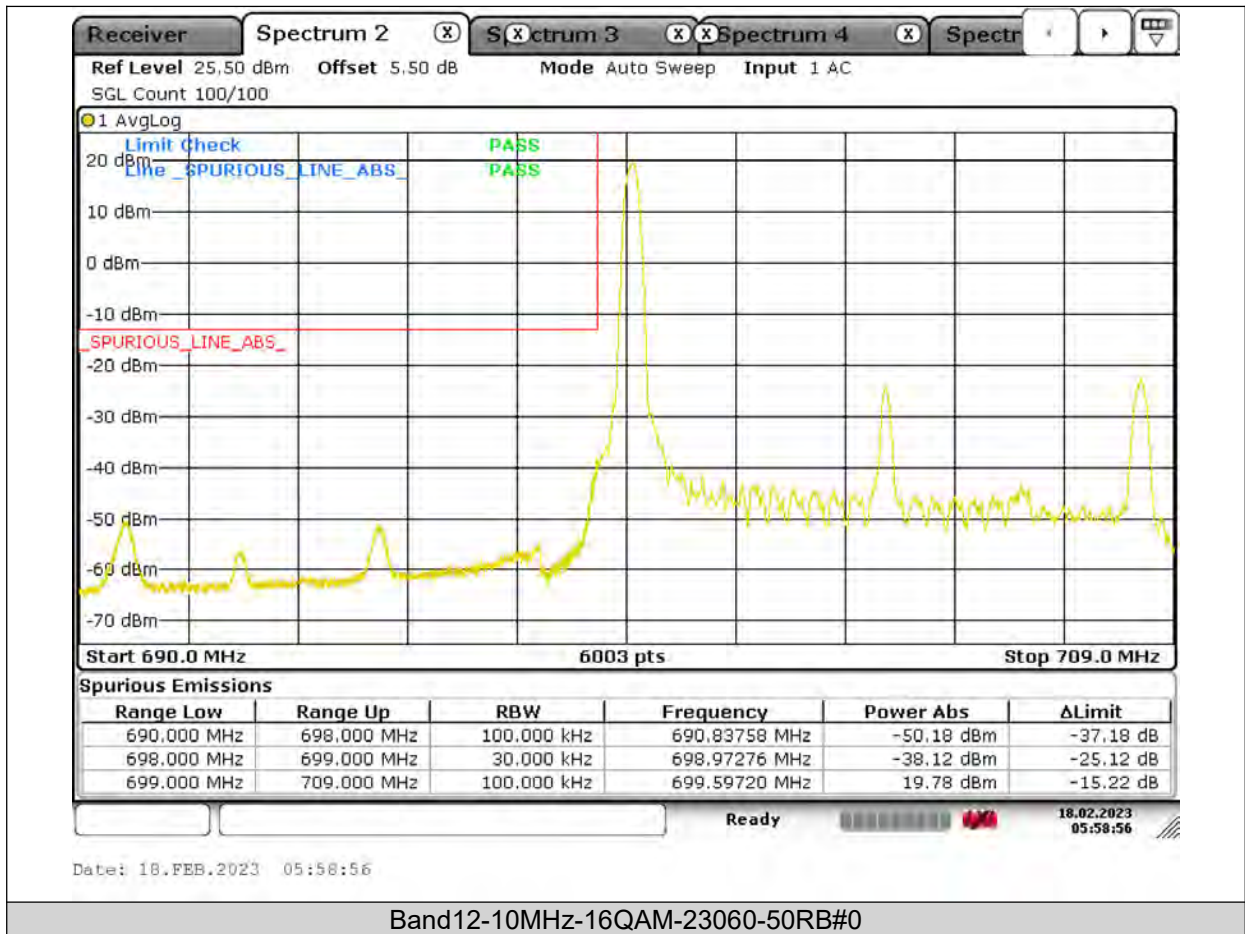
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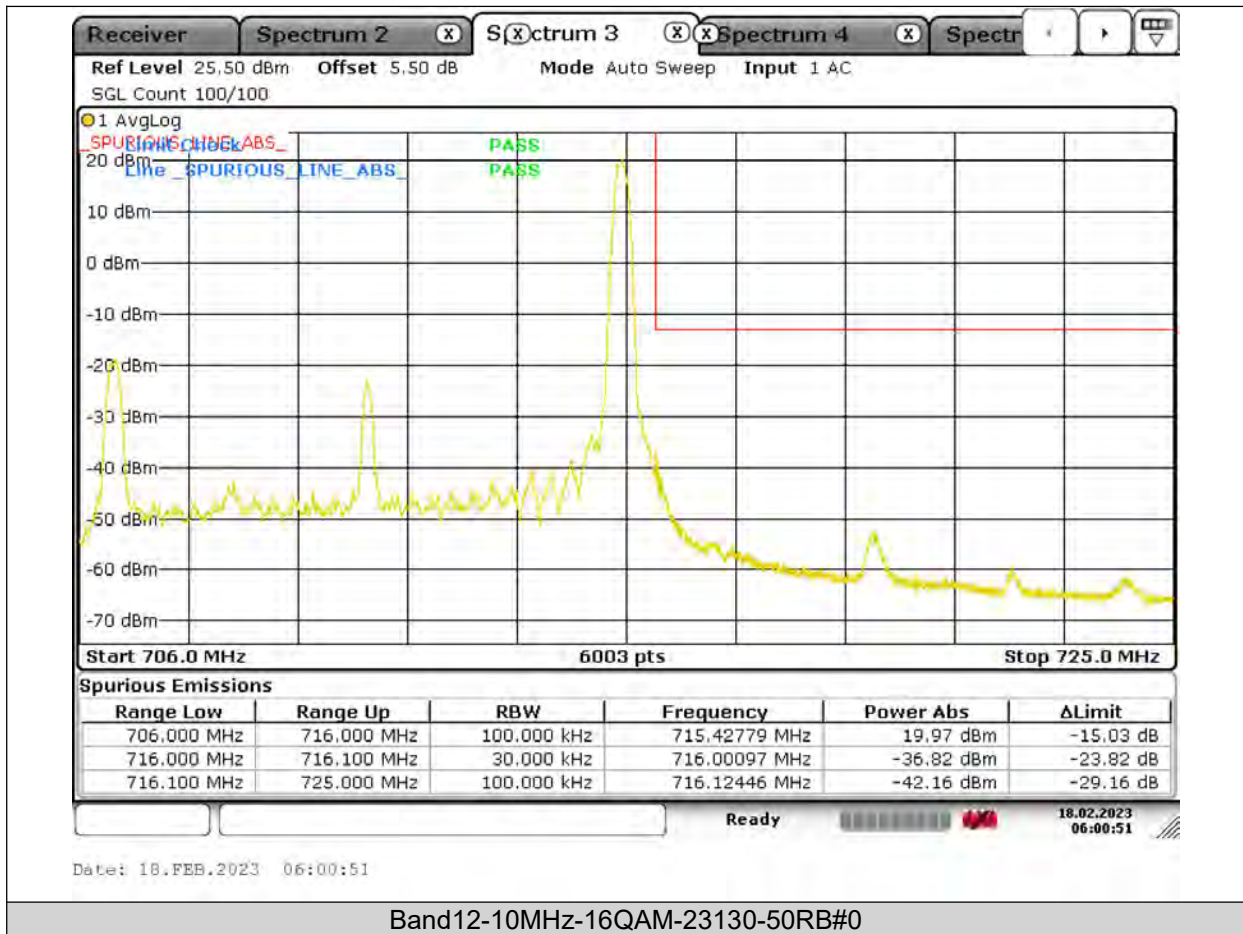
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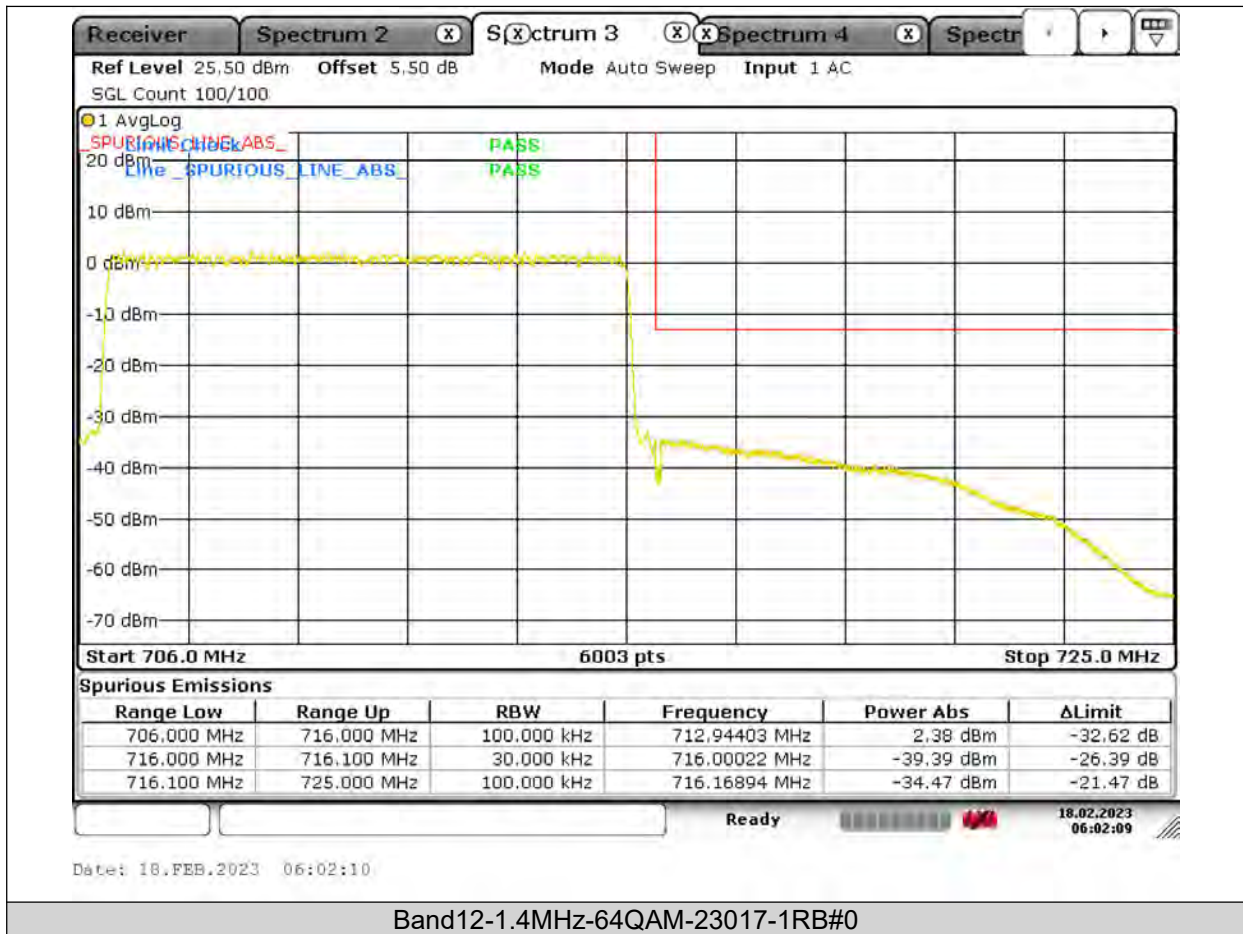
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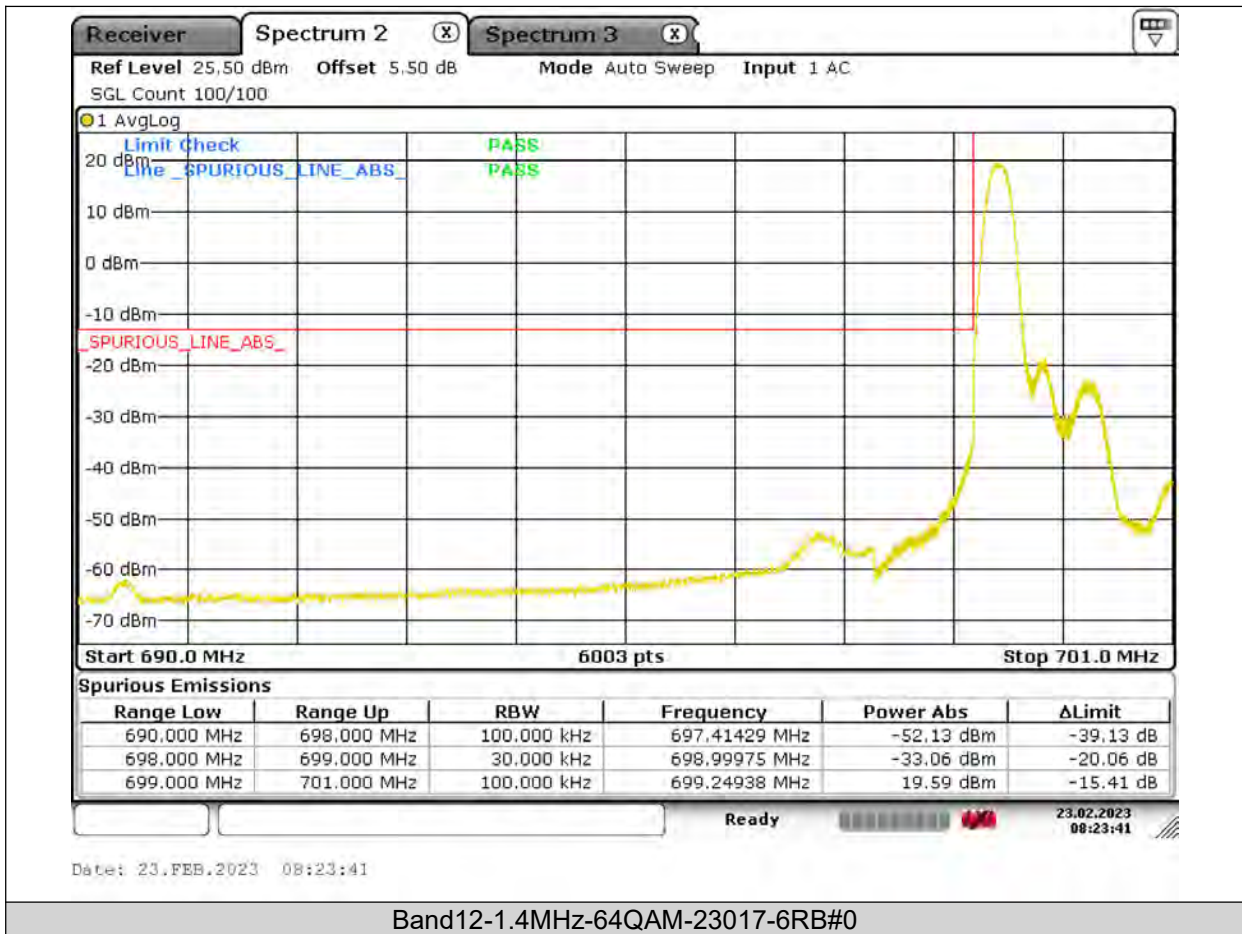
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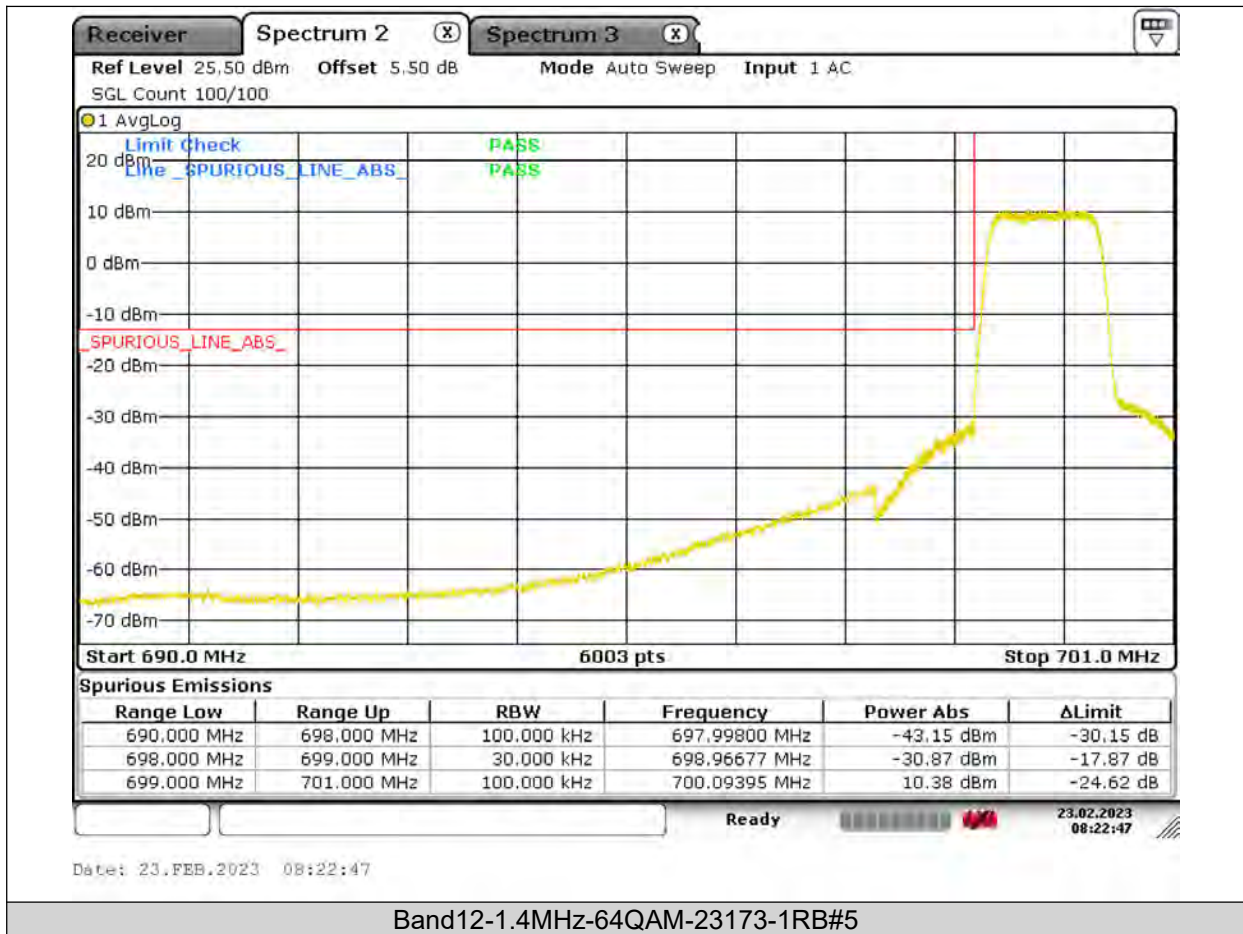






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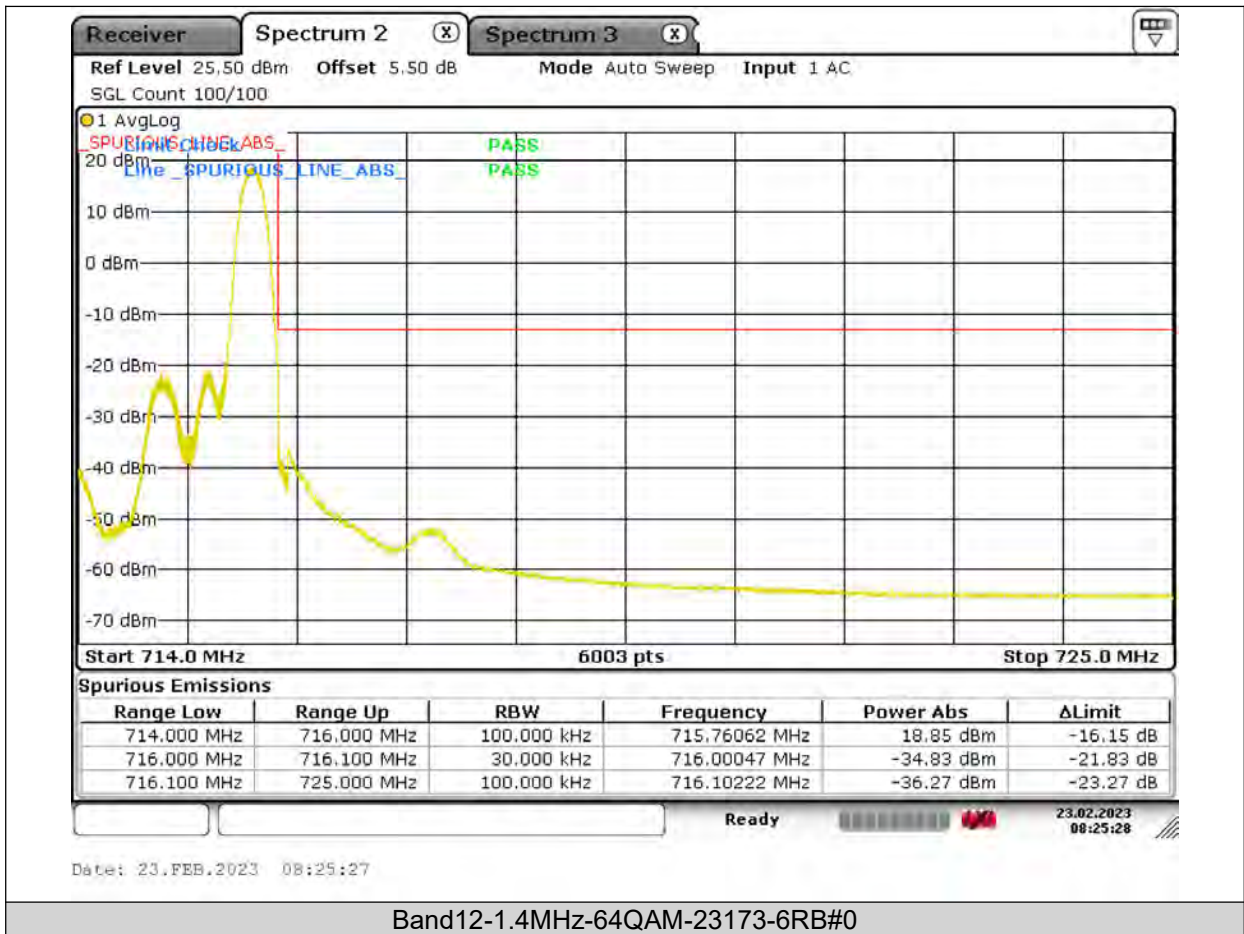
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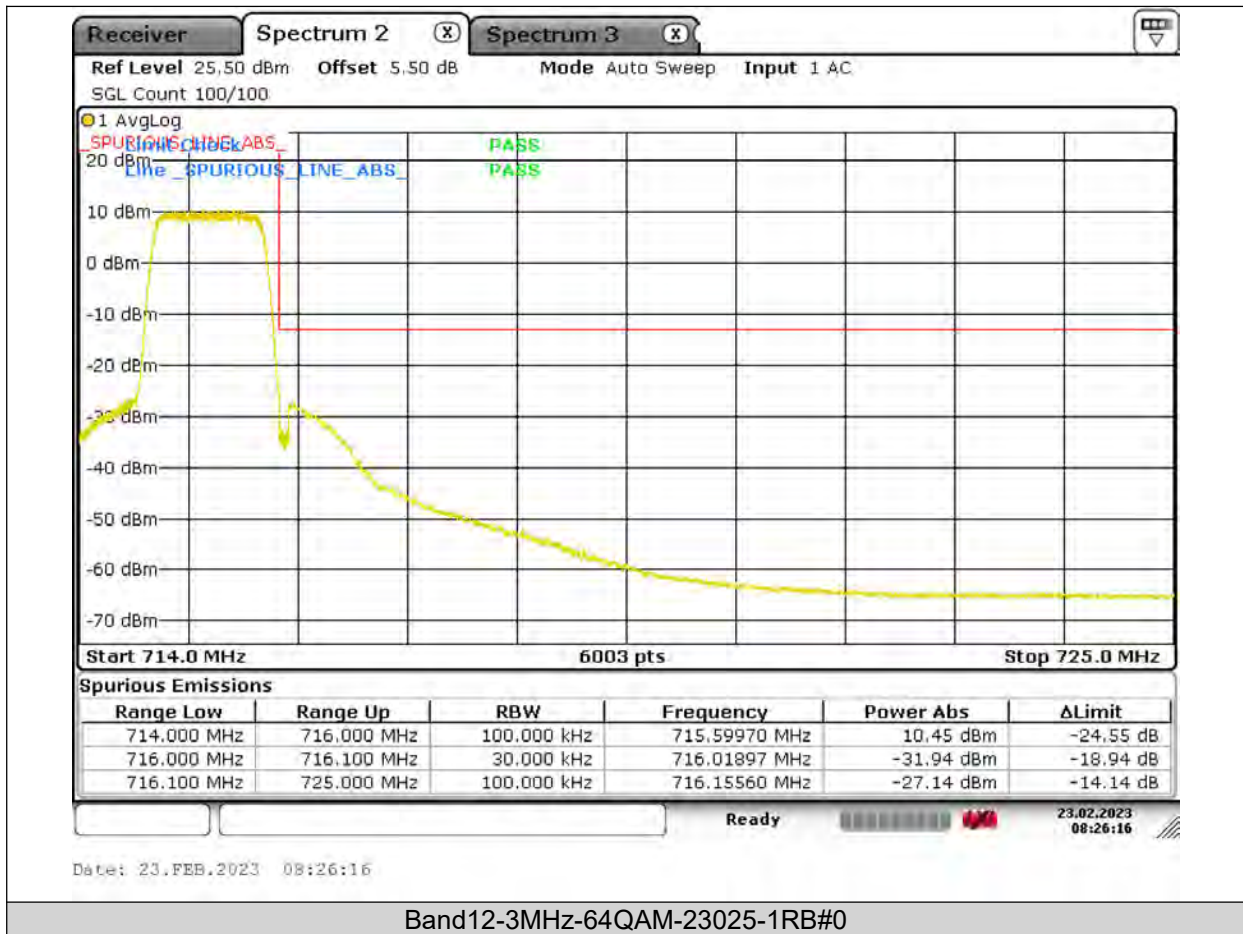
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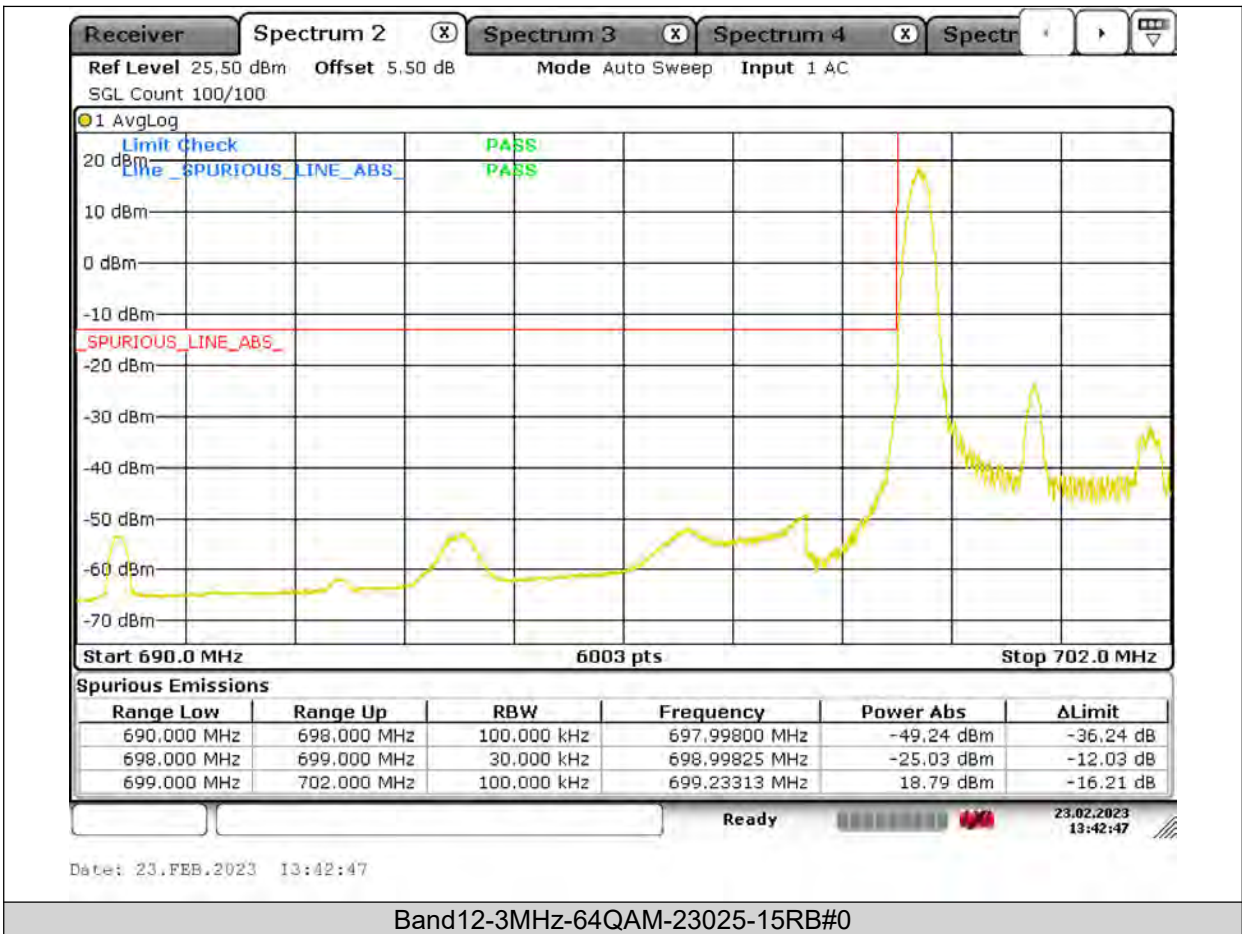
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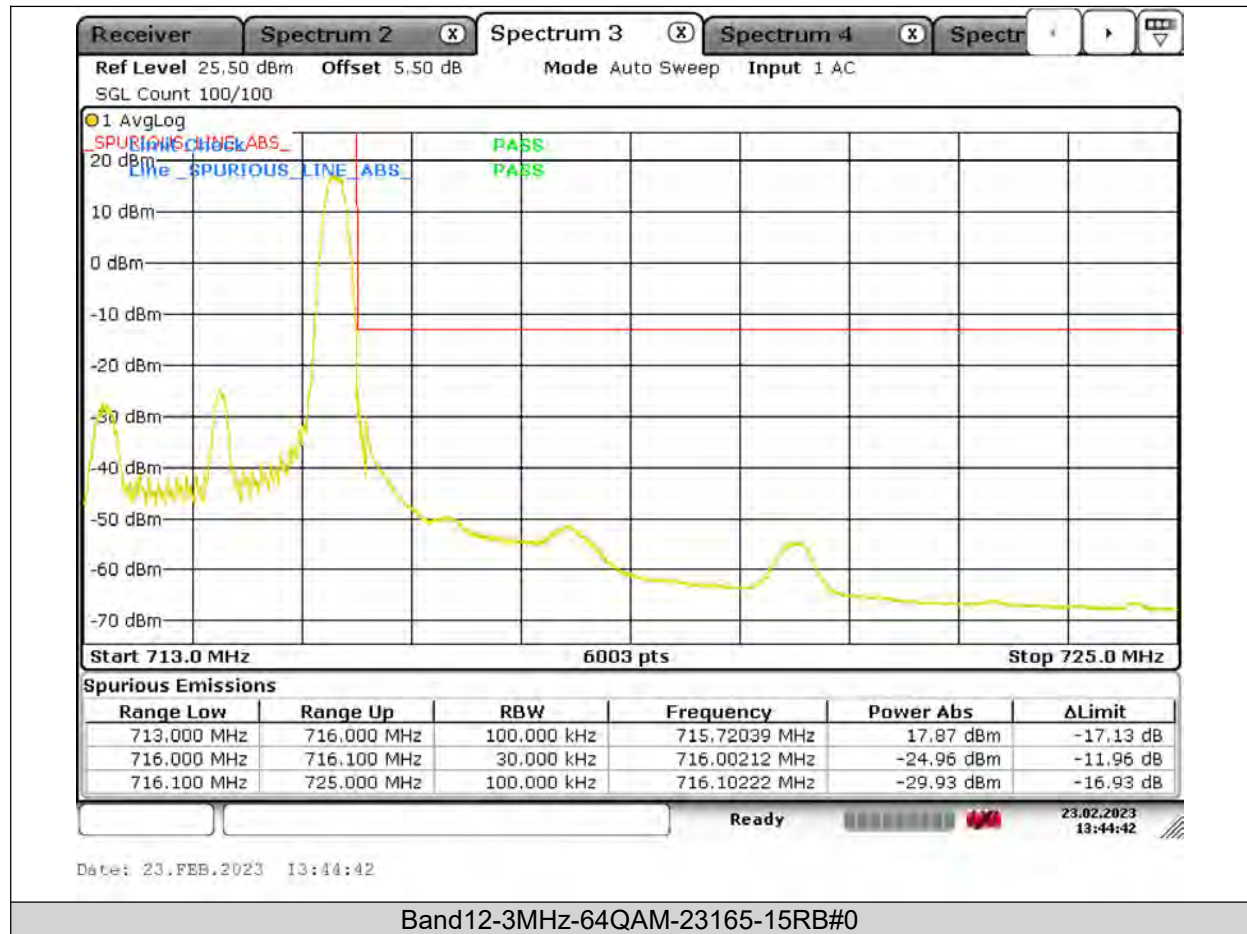
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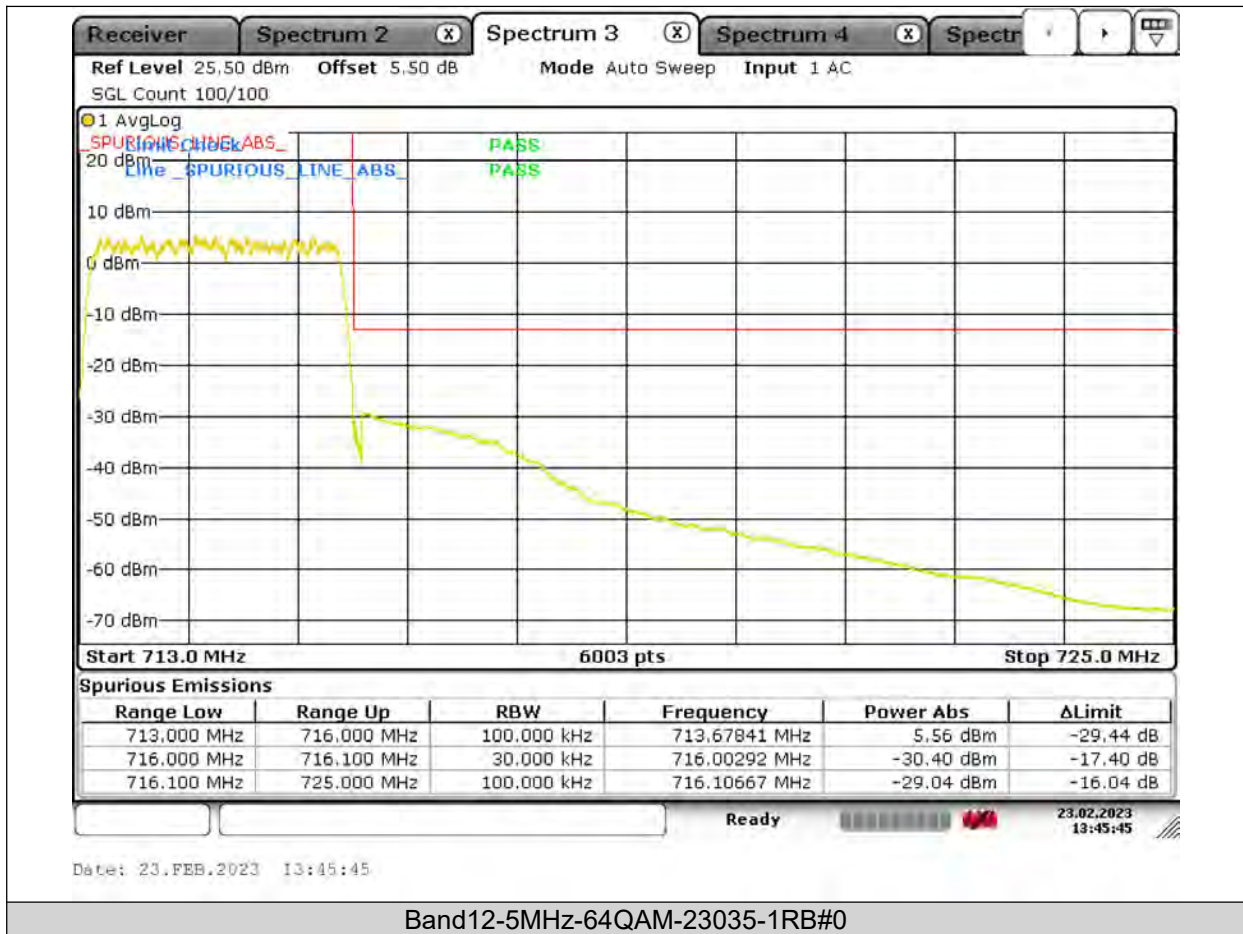
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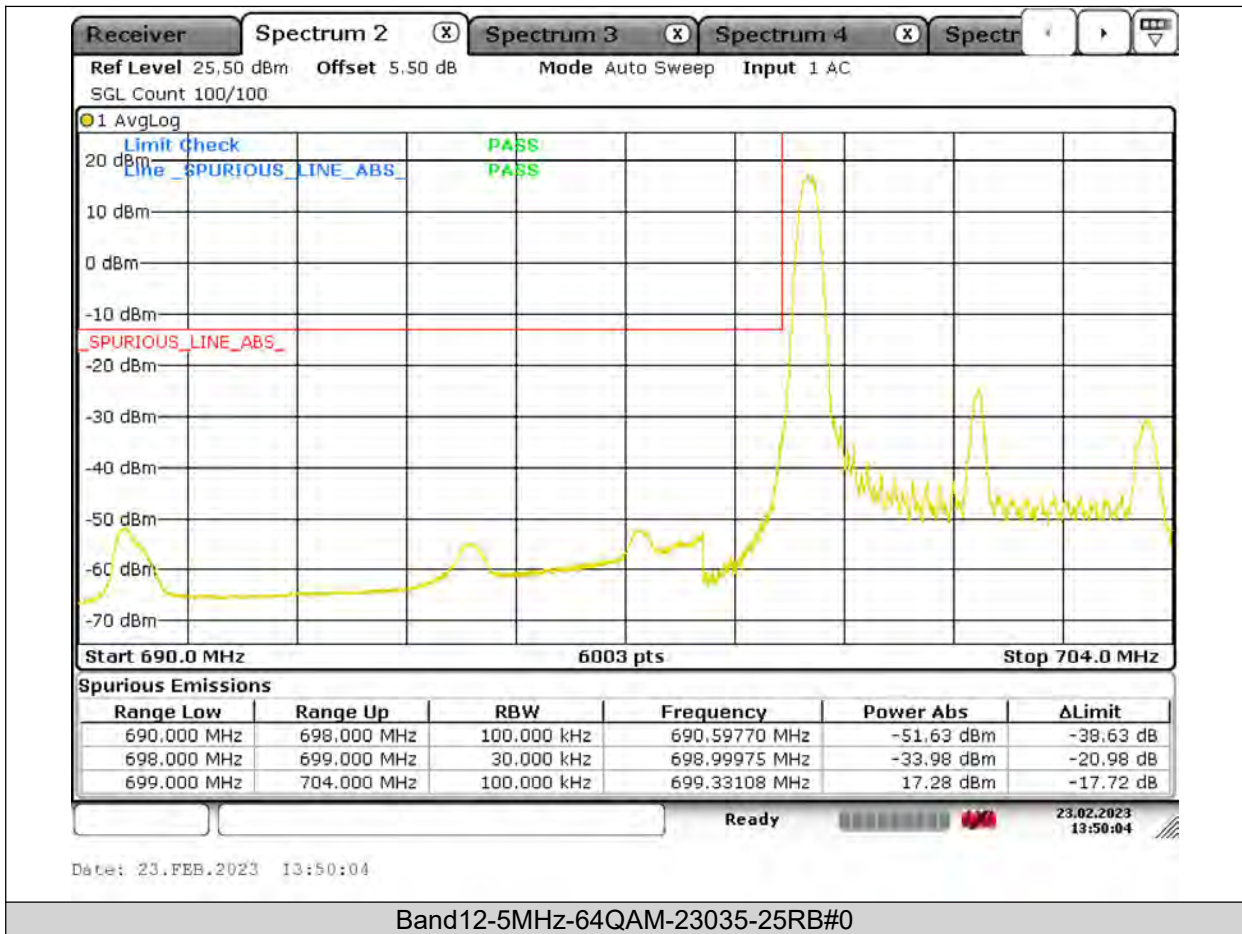
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Test Report No.: PSU-QSU2308280414RF03







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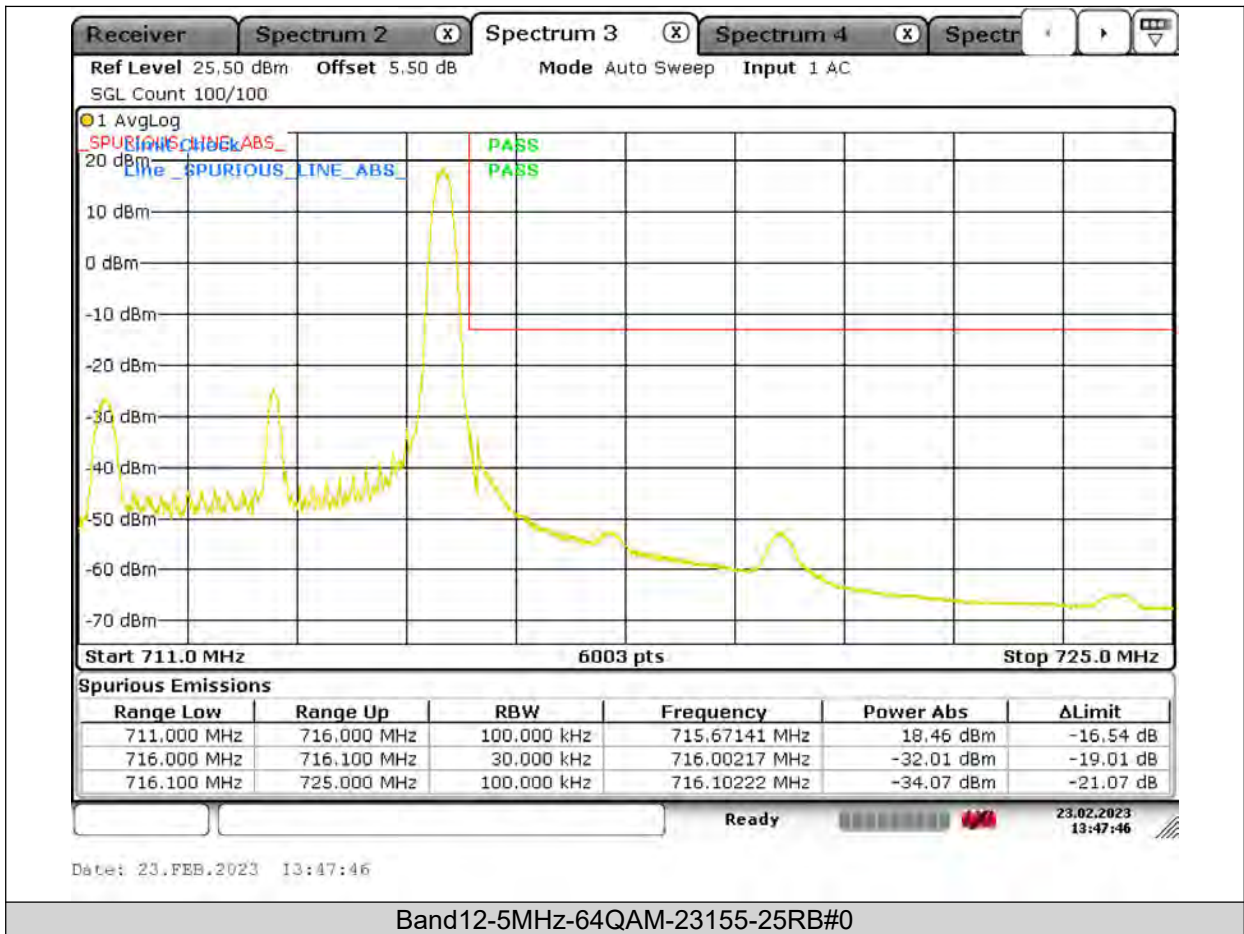
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Test Report No.: PSU-QSU2308280414RF03





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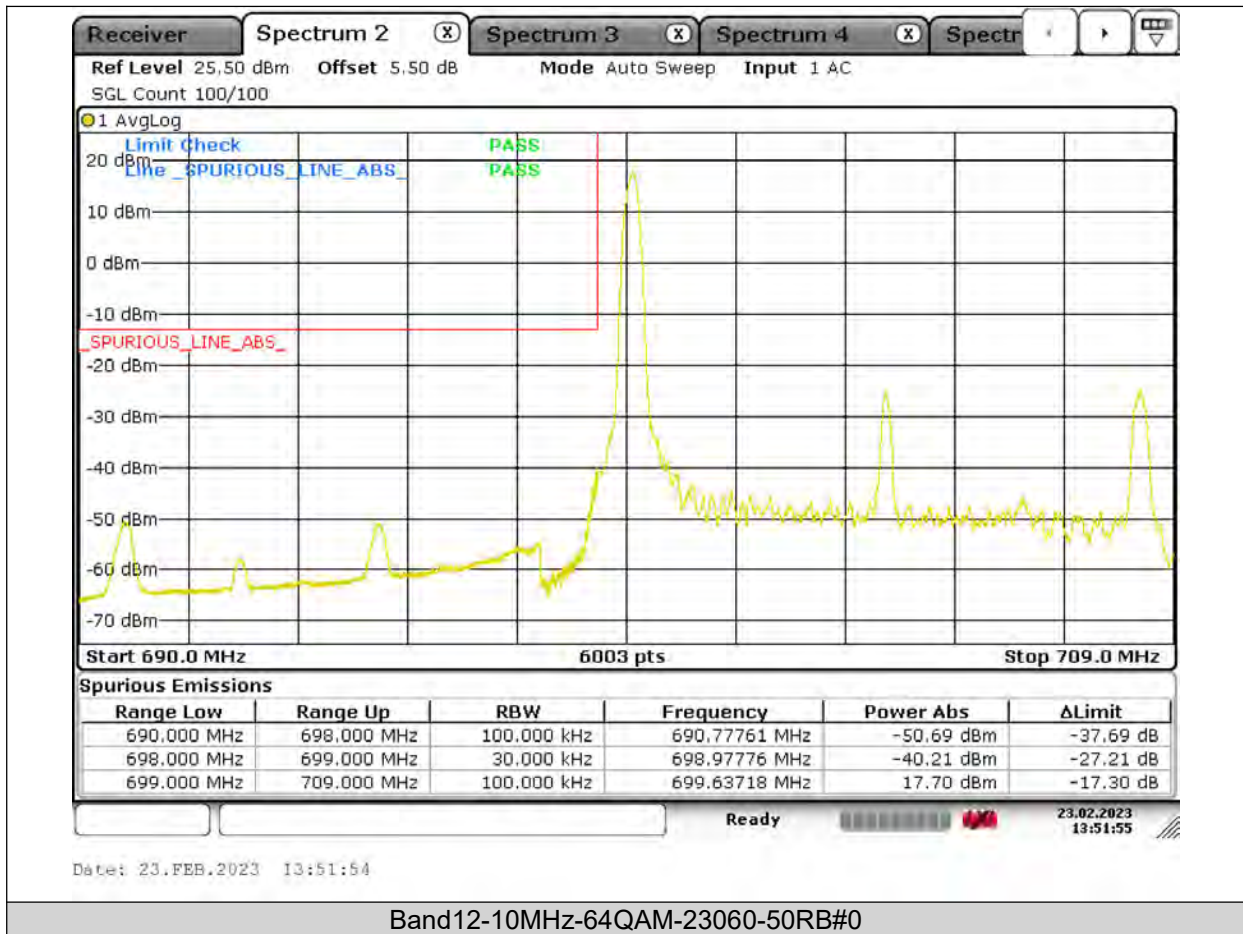
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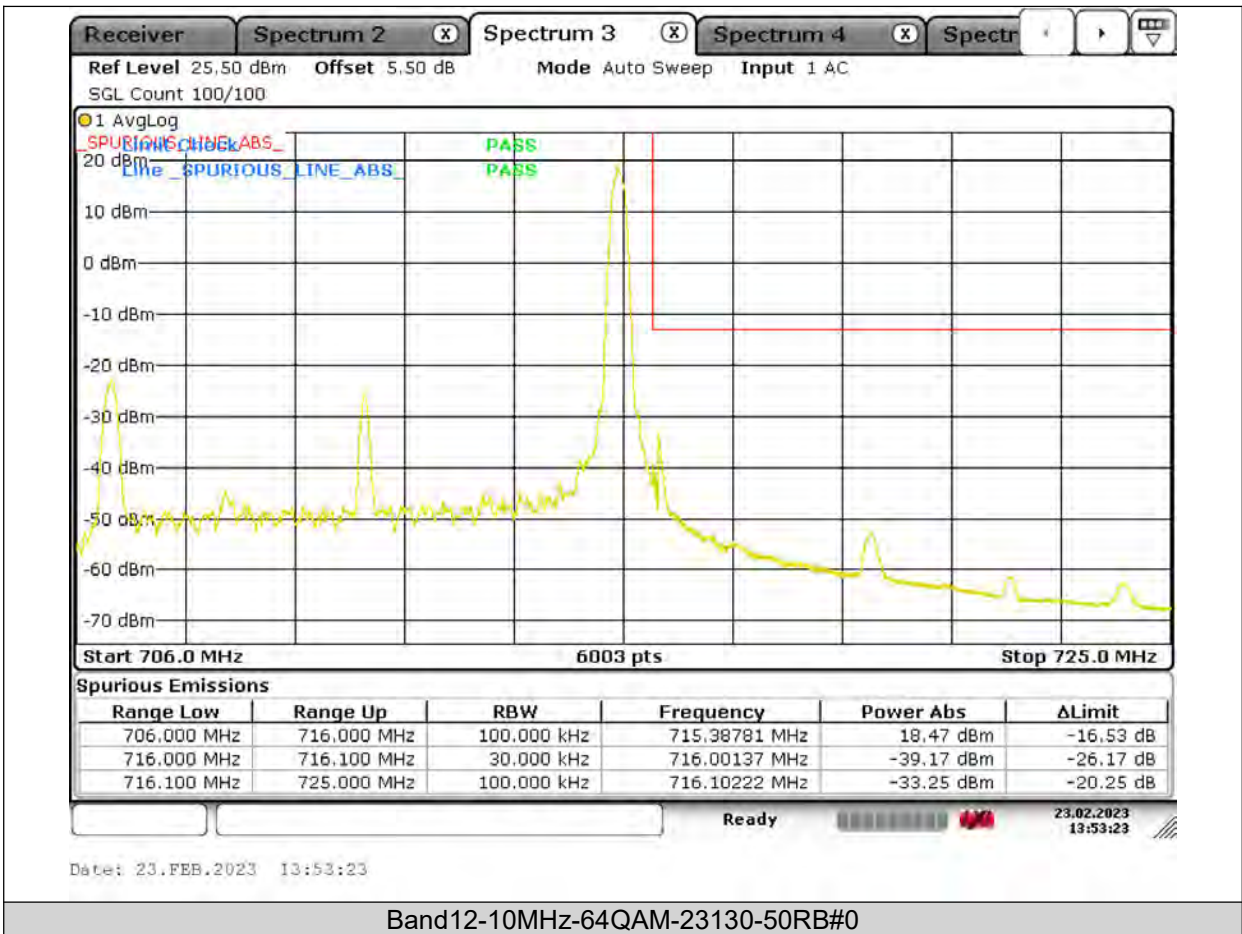
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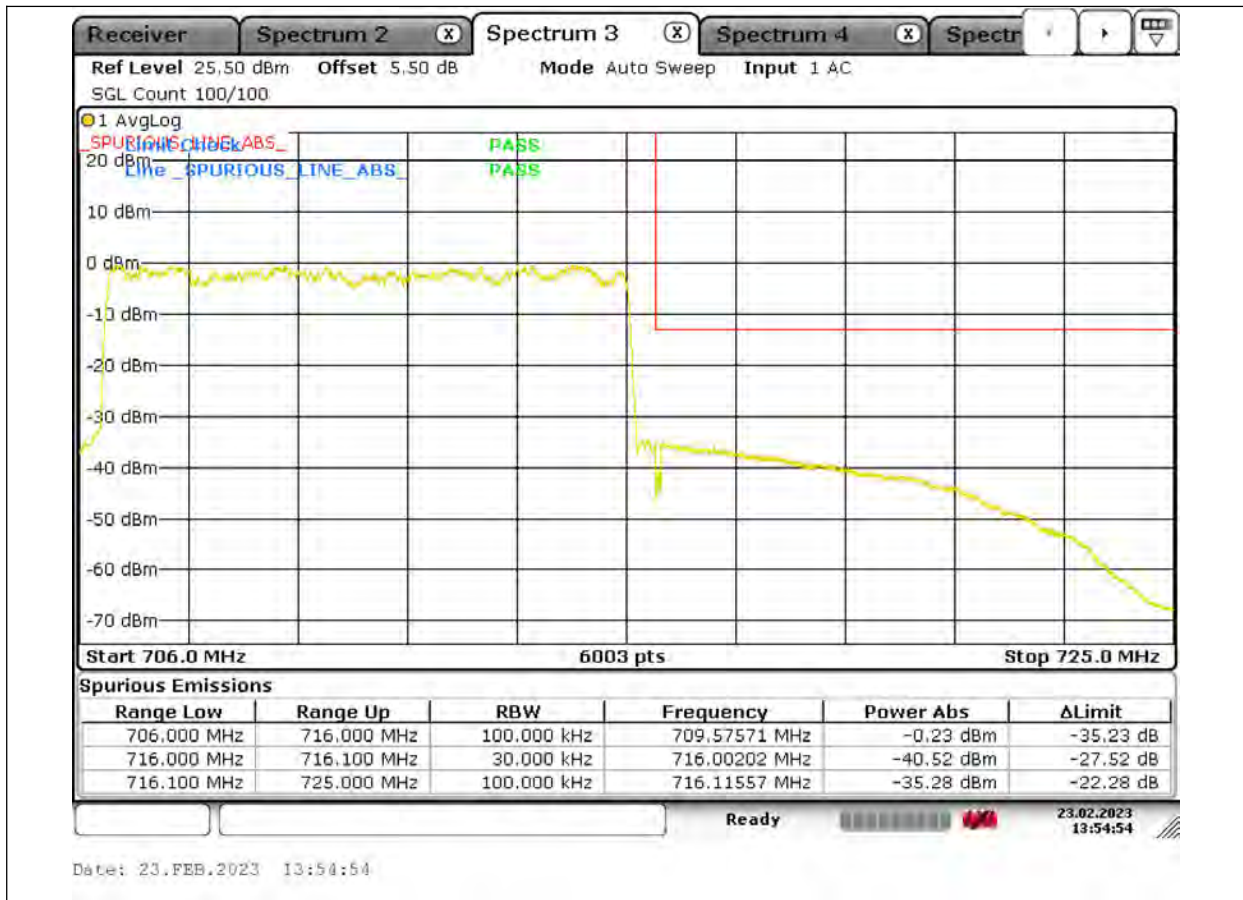
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## CONDUCTED SPURIOUS EMISSION

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	Range1:30~1000MHz	-63.34	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	Range2:1000~9000MHz	-44.87	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-63.63	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range2:1000~9000MHz	-44.74	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range1:30~1000MHz	-63.66	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range2:1000~9000MHz	-46.88	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range1:30~1000MHz	-63.31	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range2:1000~9000MHz	-46.58	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-63.6	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range2:1000~9000MHz	-46.31	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range1:30~1000MHz	-63.6	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range2:1000~9000MHz	-47.09	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range1:30~1000MHz	-62.81	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range2:1000~9000MHz	-45.3	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-63.5	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range2:1000~9000MHz	-46.59	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range1:30~1000MHz	-63.58	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range2:1000~9000MHz	-45.73	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range1:30~1000MHz	-62.9	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range2:1000~9000MHz	-46.51	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-63.45	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range2:1000~9000MHz	-47.06	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range1:30~1000MHz	-63.65	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range2:1000~9000MHz	-45.58	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range1:30~1000MHz	-63.58	PASS





Test Report No.: PSU-QSU2308280414RF03

Band12	5MHz	QPSK	23035	1RB#0	Range2:1000~9000MHz	-44.7 6	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-63.4 7	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range2:1000~9000MHz	-47.0 4	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range1:30~1000MHz	-63.6	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range2:1000~9000MHz	-43.5 1	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range1:30~1000MHz	-63.5 4	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range2:1000~9000MHz	-46.8 8	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-63.6 5	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range2:1000~9000MHz	-47.2 2	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range1:30~1000MHz	-63.3	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range2:1000~9000MHz	-44.1 9	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range1:30~1000MHz	-62.8 9	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:1000~9000MHz	-46.2 3	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-63.6 5	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:1000~9000MHz	-47.2 4	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:30~1000MHz	-57.9 1	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:1000~9000MHz	-44.5 7	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:30~1000MHz	-63.5 3	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range2:1000~9000MHz	-46.7 3	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-63.6 6	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range2:1000~9000MHz	-47.2 4	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:30~1000MHz	-58.9 2	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:1000~9000MHz	-46.8 6	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	Range1:30~1000MHz	-64.0 7	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	Range2:1000~9000MHz	-47.0 5	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	Range1:30~1000MHz	-63.7 3	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	Range2:1000~9000MHz	-47.0 5	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	Range1:30~1000MHz	-63.7 9	PASS



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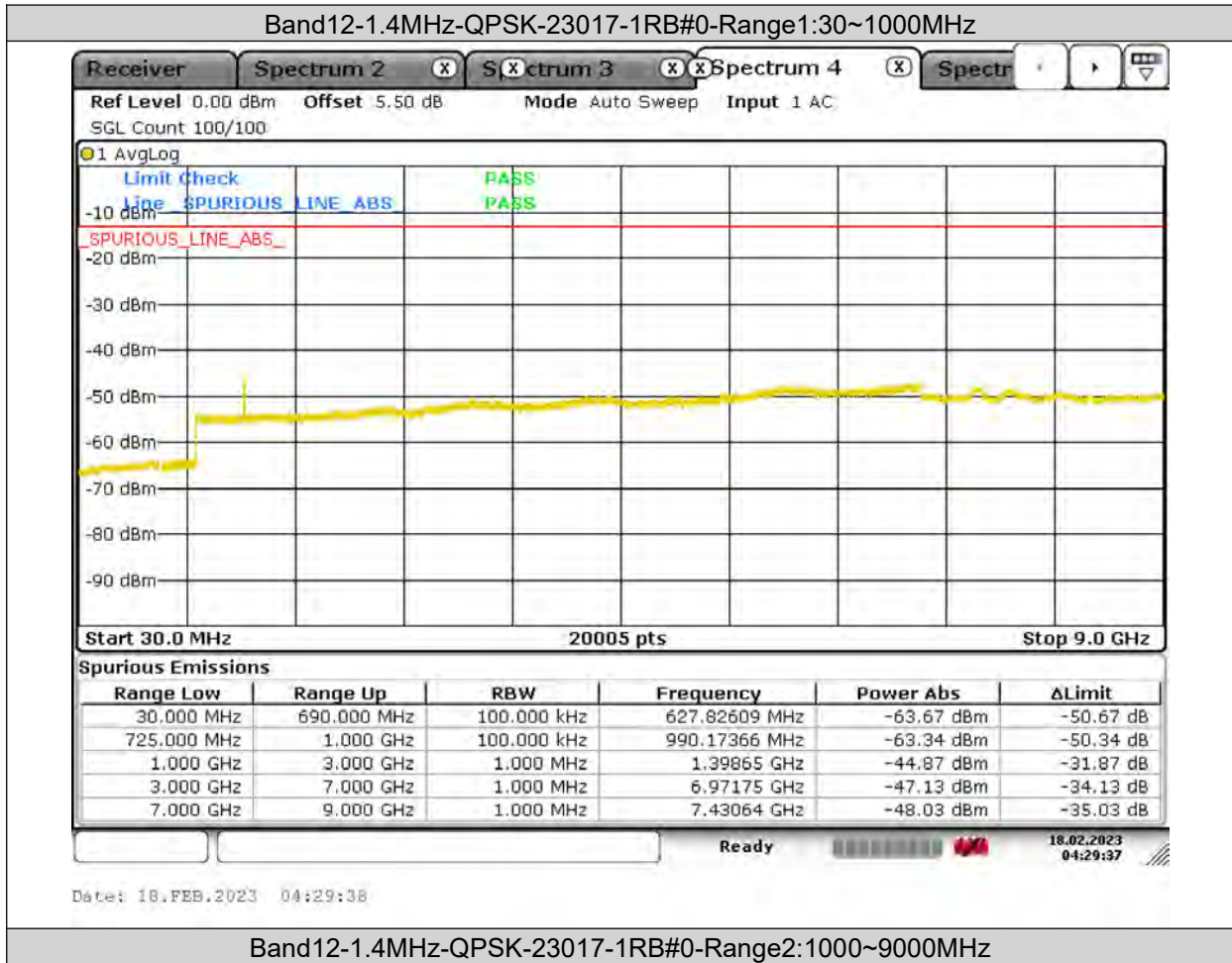
Test Report No.: PSU-QSU2308280414RF03

Band12	1.4MHz	64QAM	23173	1RB#0	Range2:1000~9000MHz	-47.2 5	PASS
Band12	3MHz	64QAM	23025	1RB#0	Range1:30~1000MHz	-63.8 3	PASS
Band12	3MHz	64QAM	23025	1RB#0	Range2:1000~9000MHz	-47.2 3	PASS
Band12	3MHz	64QAM	23095	1RB#0	Range1:30~1000MHz	-63.8 2	PASS
Band12	3MHz	64QAM	23095	1RB#0	Range2:1000~9000MHz	-47.4 3	PASS
Band12	3MHz	64QAM	23165	1RB#0	Range1:30~1000MHz	-63.8 2	PASS
Band12	3MHz	64QAM	23165	1RB#0	Range2:1000~9000MHz	-47.2 5	PASS
Band12	5MHz	64QAM	23035	1RB#0	Range1:30~1000MHz	-63.8 3	PASS
Band12	5MHz	64QAM	23035	1RB#0	Range2:1000~9000MHz	-47.4 1	PASS
Band12	5MHz	64QAM	23095	1RB#0	Range1:30~1000MHz	-63.8 6	PASS
Band12	5MHz	64QAM	23095	1RB#0	Range2:1000~9000MHz	-47.3 4	PASS
Band12	5MHz	64QAM	23155	1RB#0	Range1:30~1000MHz	-64.0 0	PASS
Band12	5MHz	64QAM	23155	1RB#0	Range2:1000~9000MHz	-46.1 8	PASS
Band12	10MHz	64QAM	23060	1RB#0	Range1:30~1000MHz	-63.8 9	PASS
Band12	10MHz	64QAM	23060	1RB#0	Range2:1000~9000MHz	-47.1 5	PASS
Band12	10MHz	64QAM	23095	1RB#0	Range1:30~1000MHz	-63.6 1	PASS
Band12	10MHz	64QAM	23095	1RB#0	Range2:1000~9000MHz	-47.1 1	PASS
Band12	10MHz	64QAM	23130	1RB#0	Range1:30~1000MHz	-61.2 0	PASS
Band12	10MHz	64QAM	23130	1RB#0	Range2:1000~9000MHz	-47.3 1	PASS



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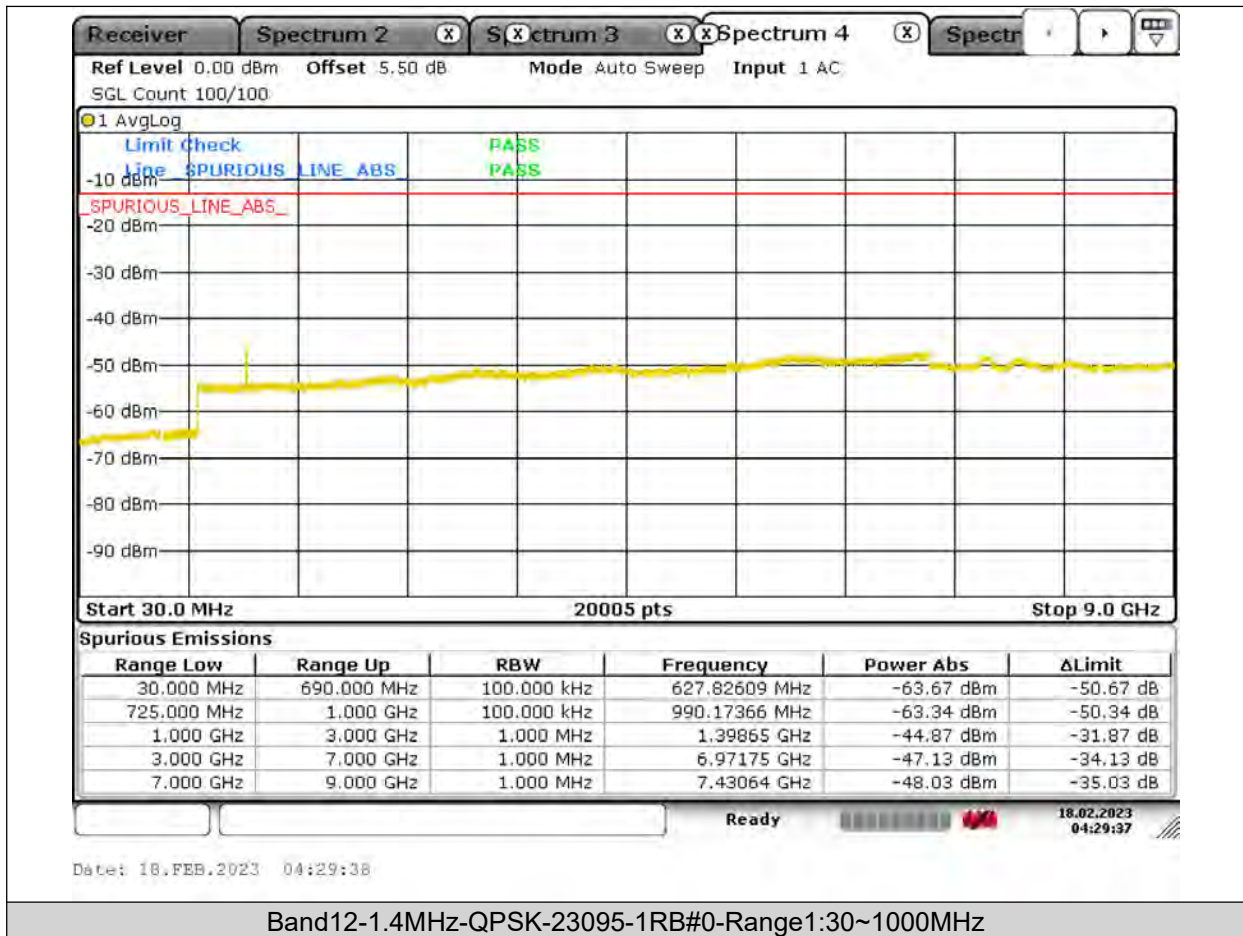
### Test Graphs





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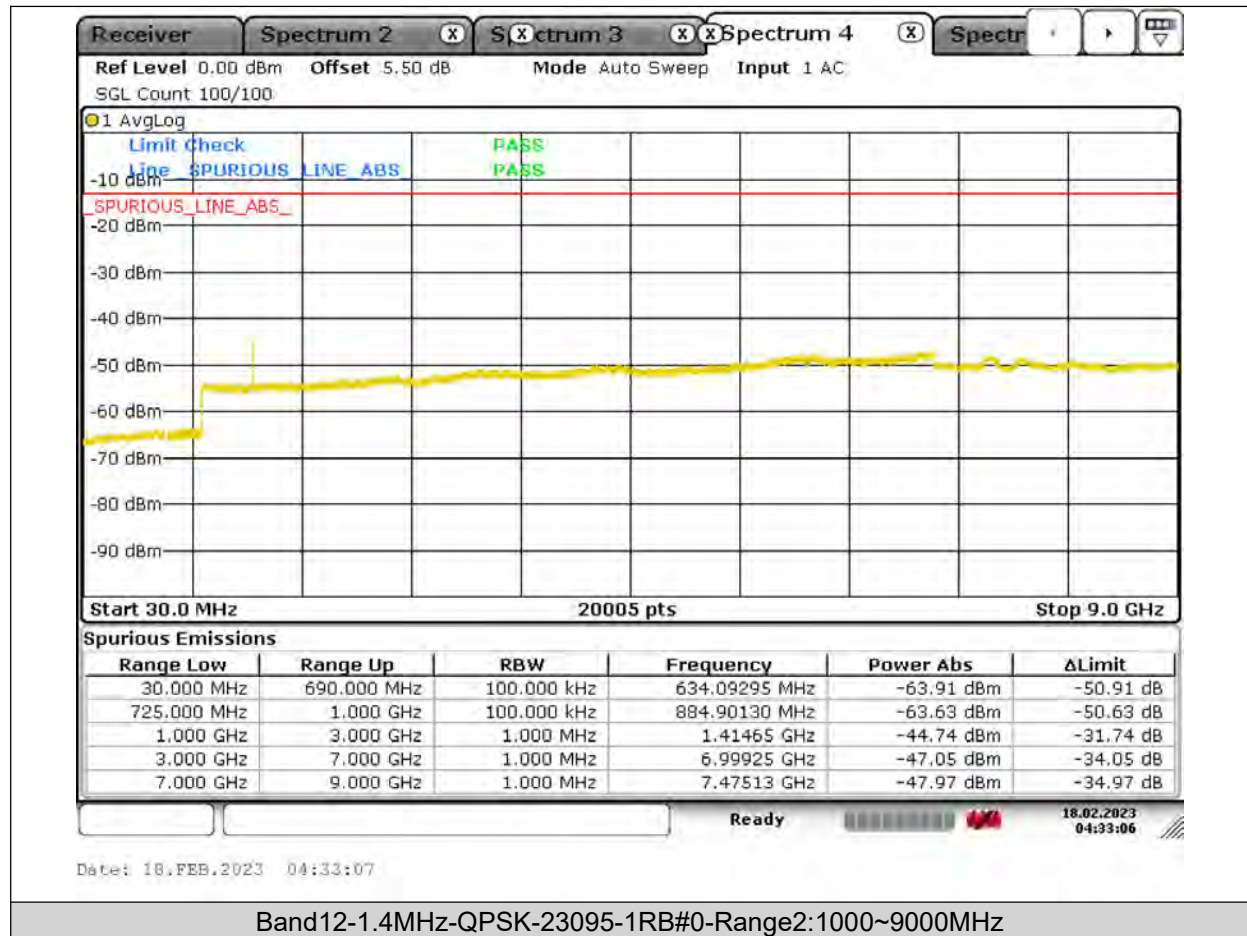
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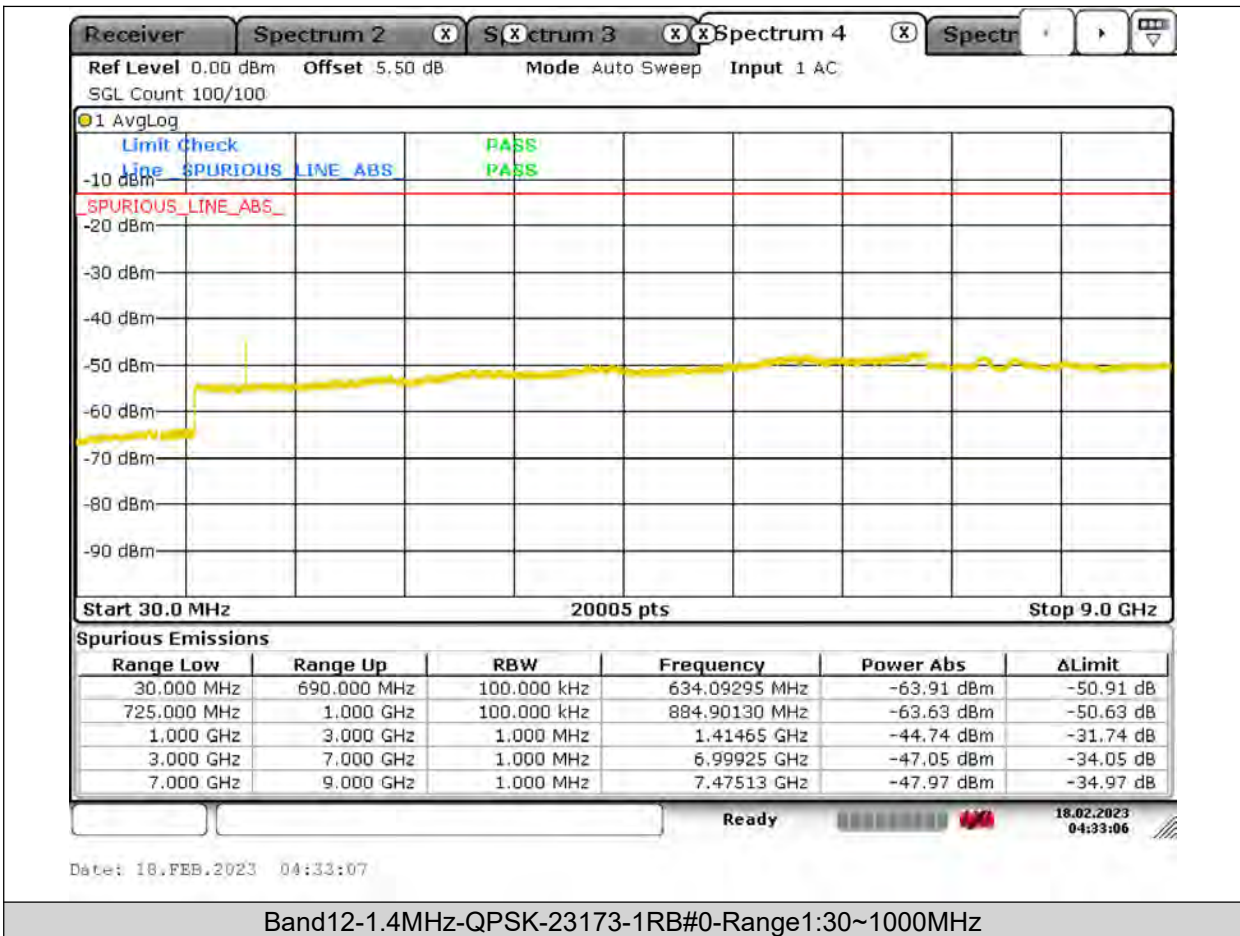
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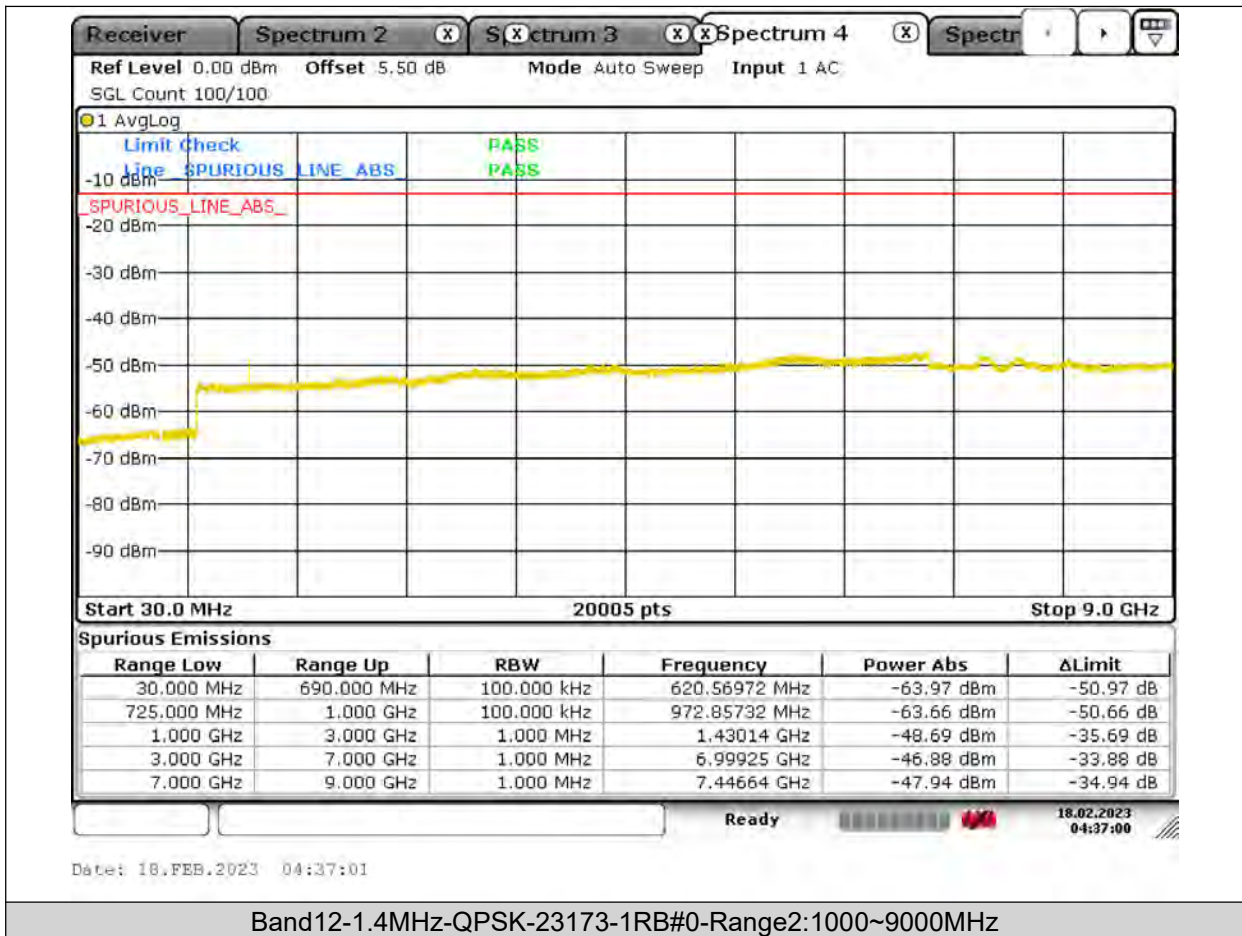
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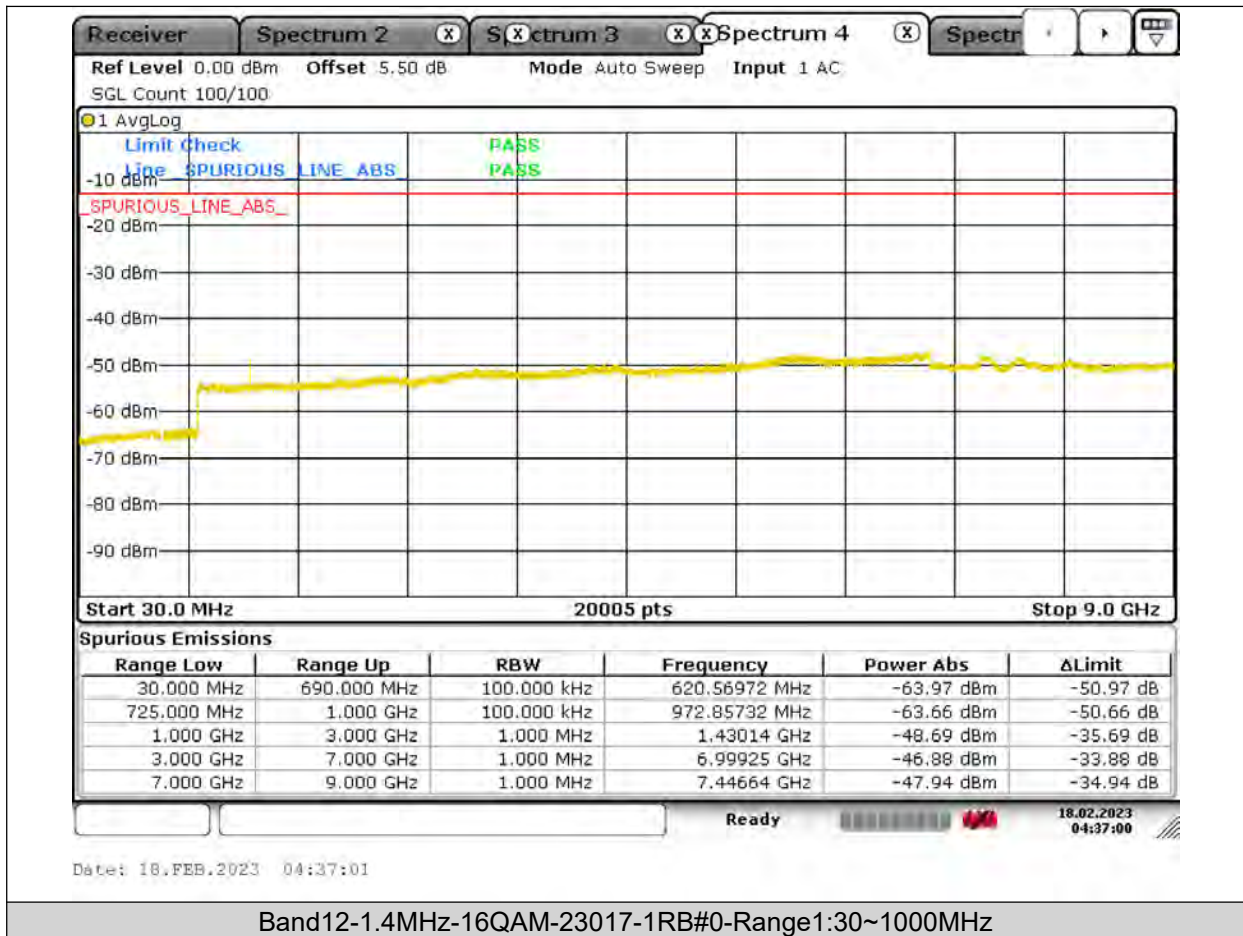
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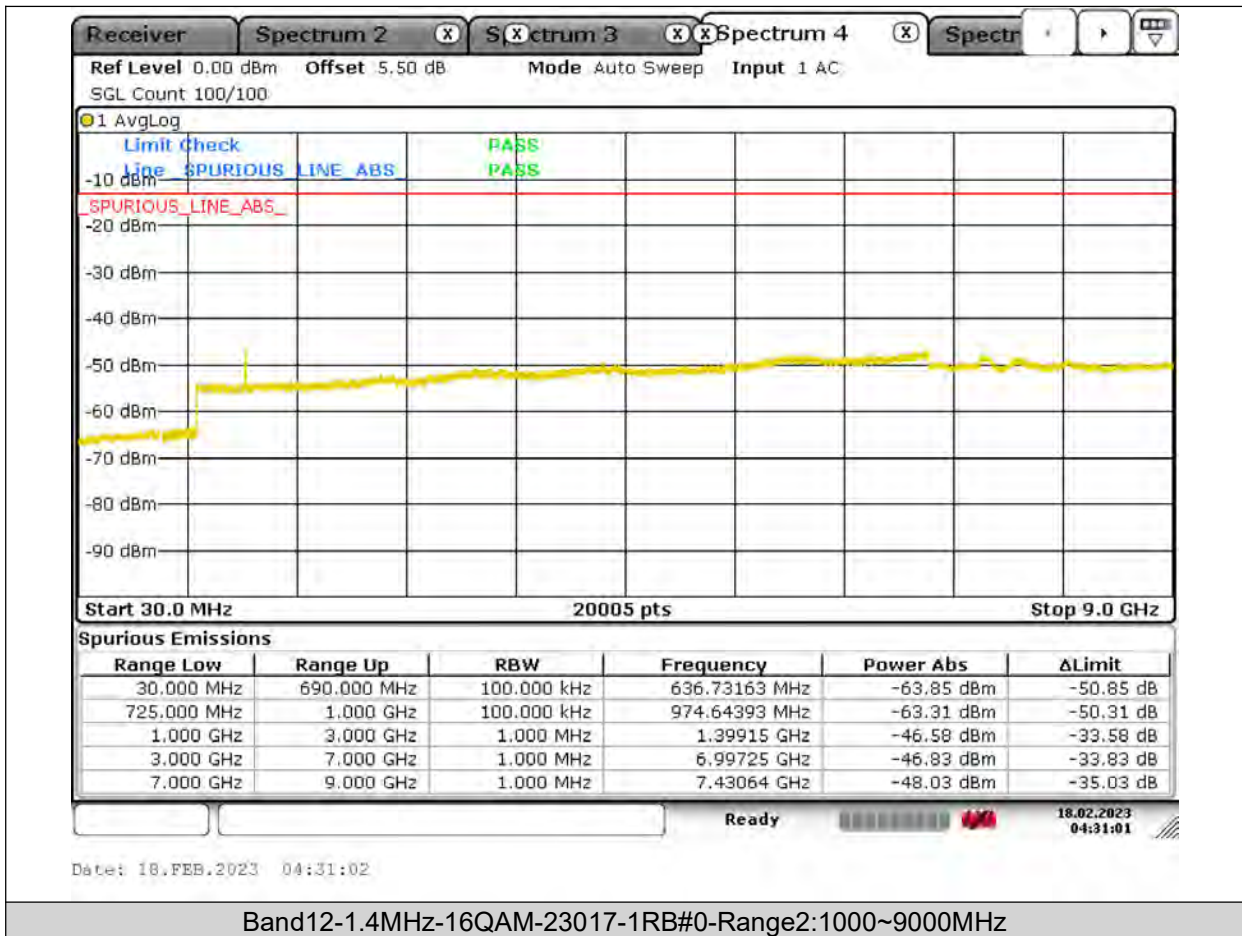






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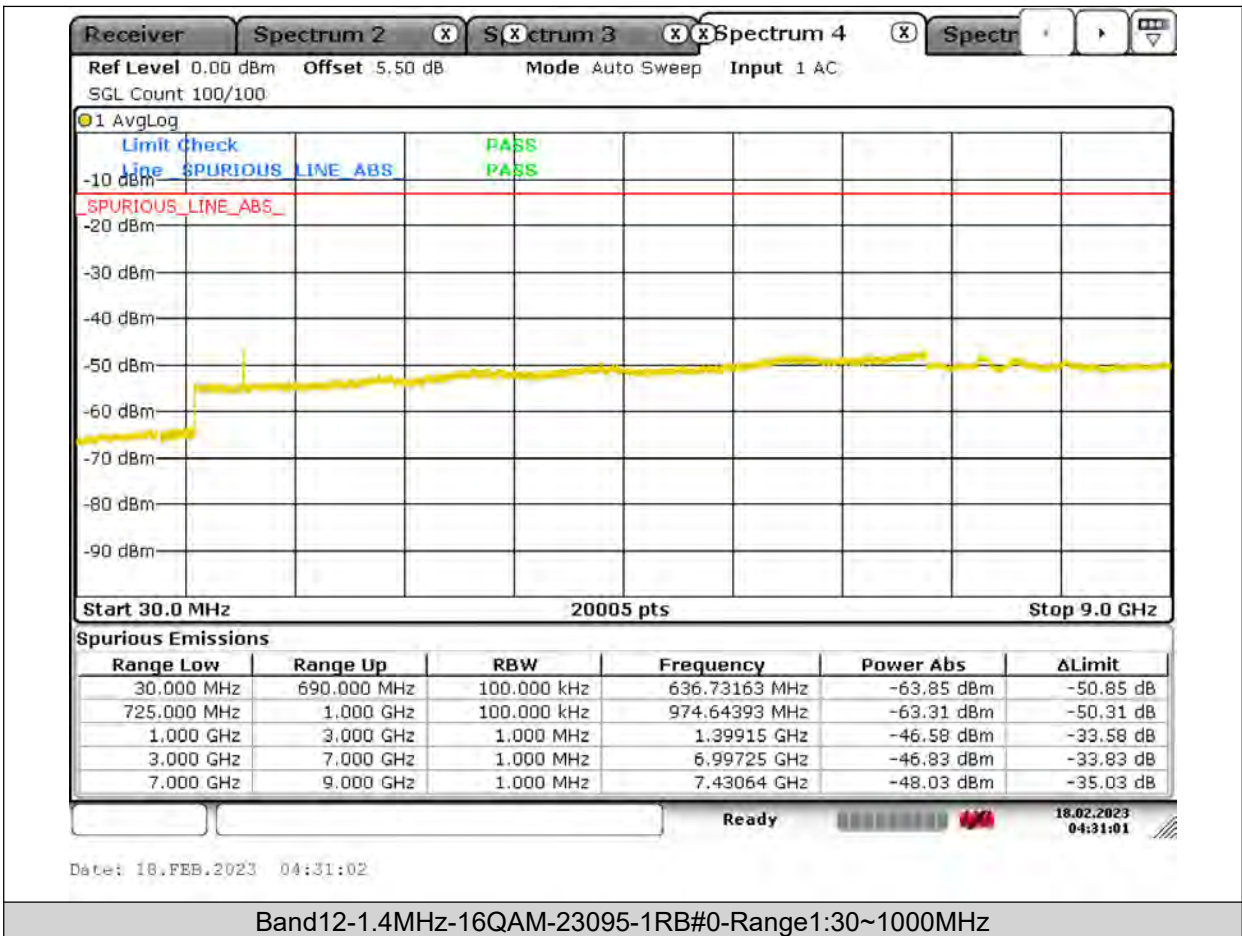
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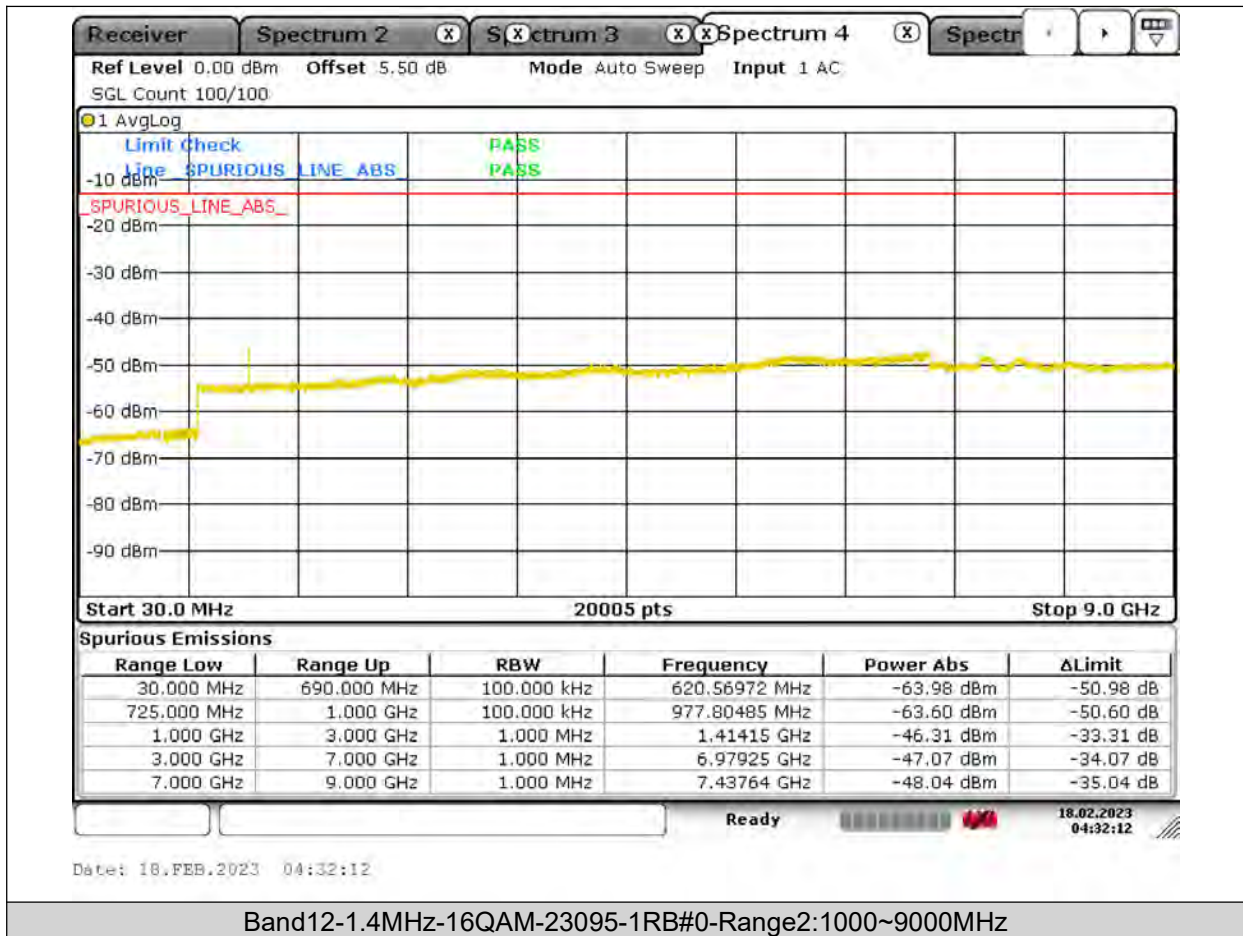
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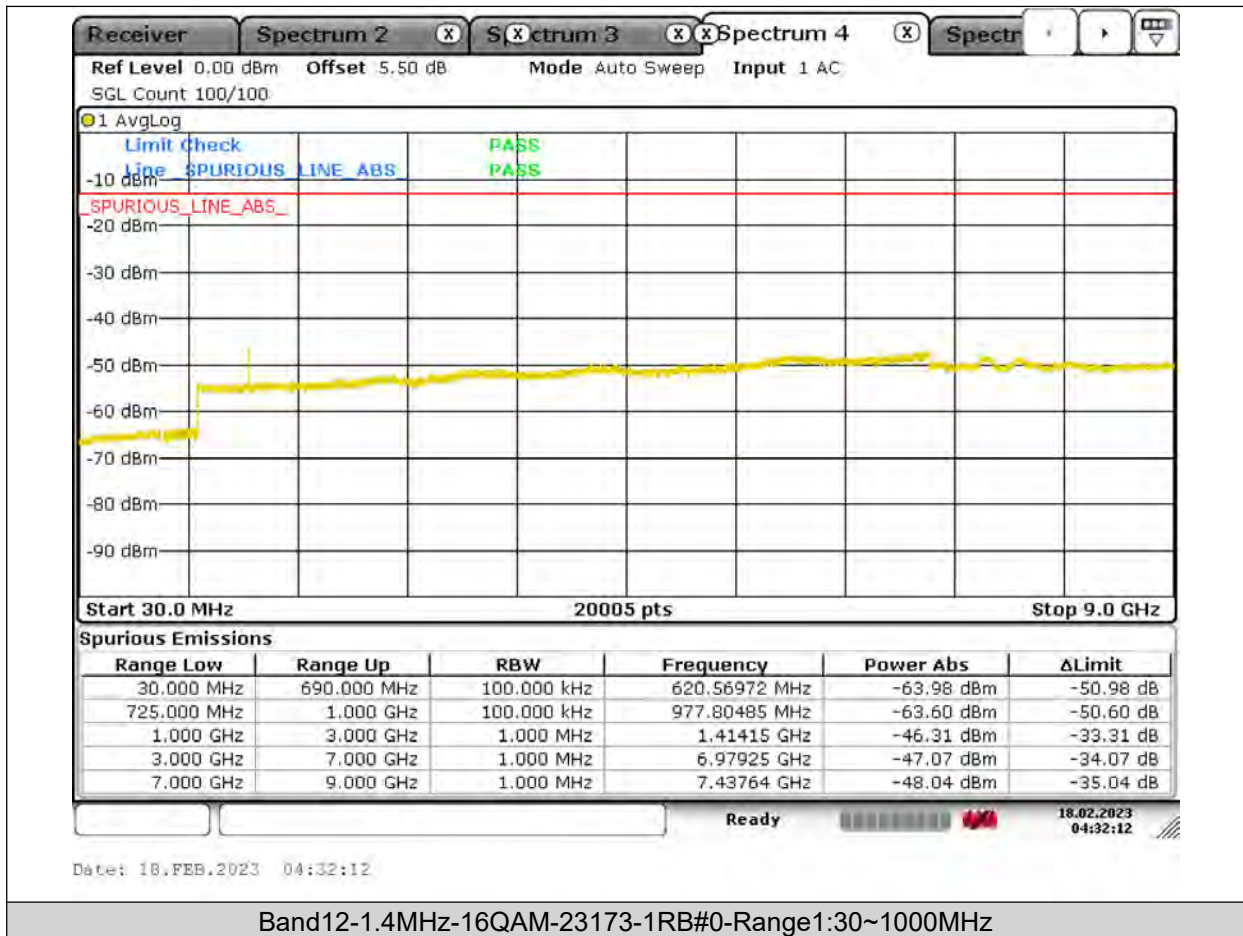
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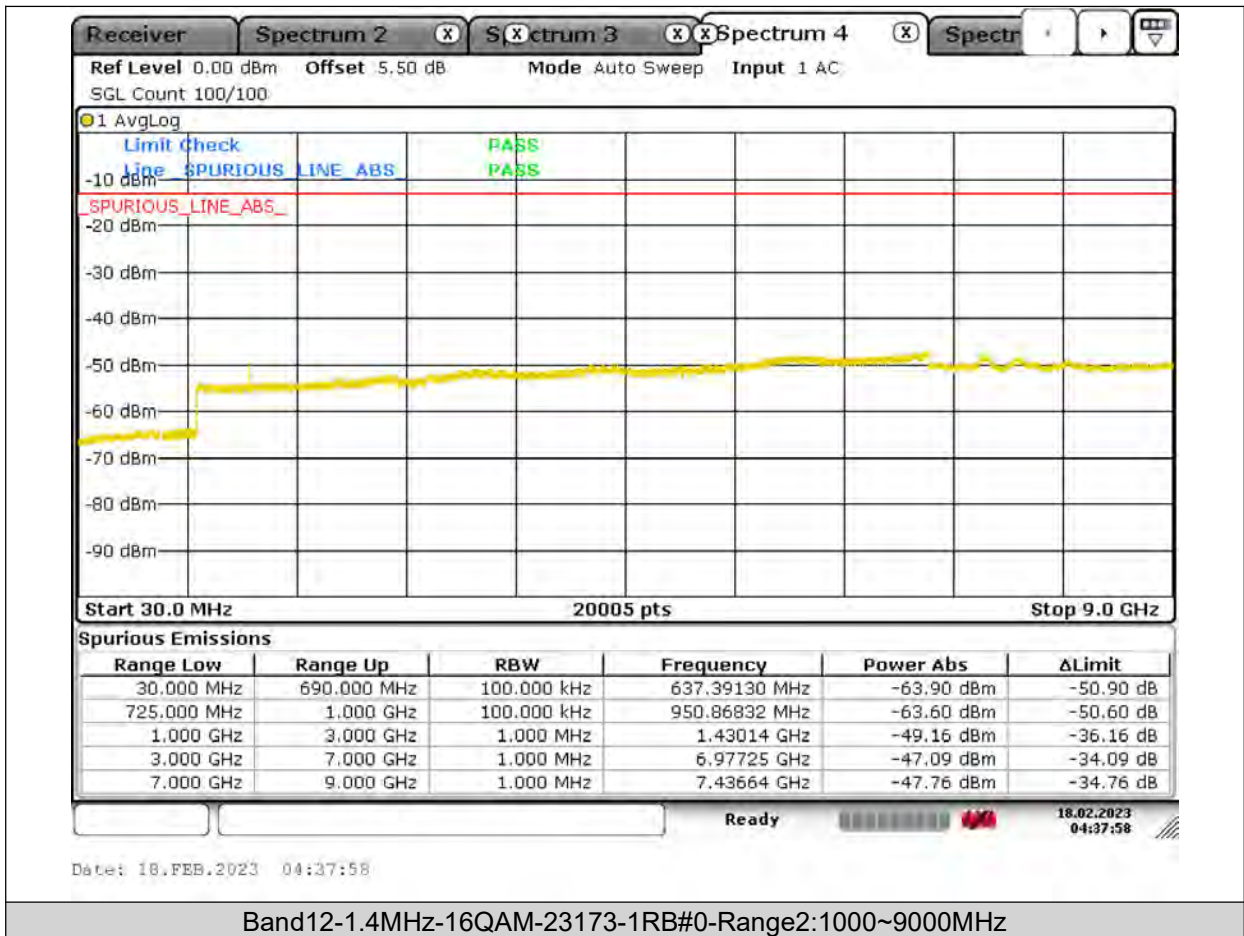
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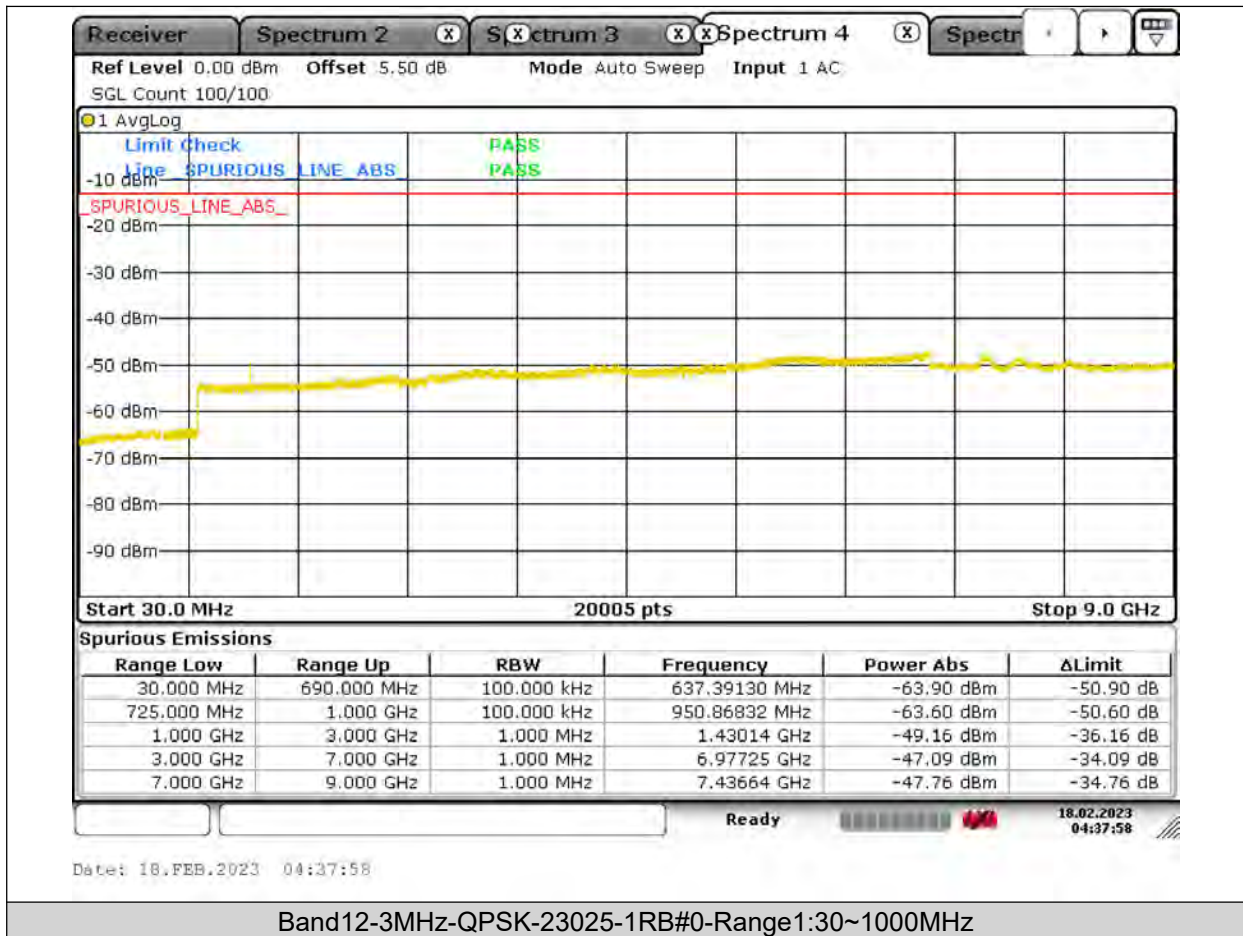
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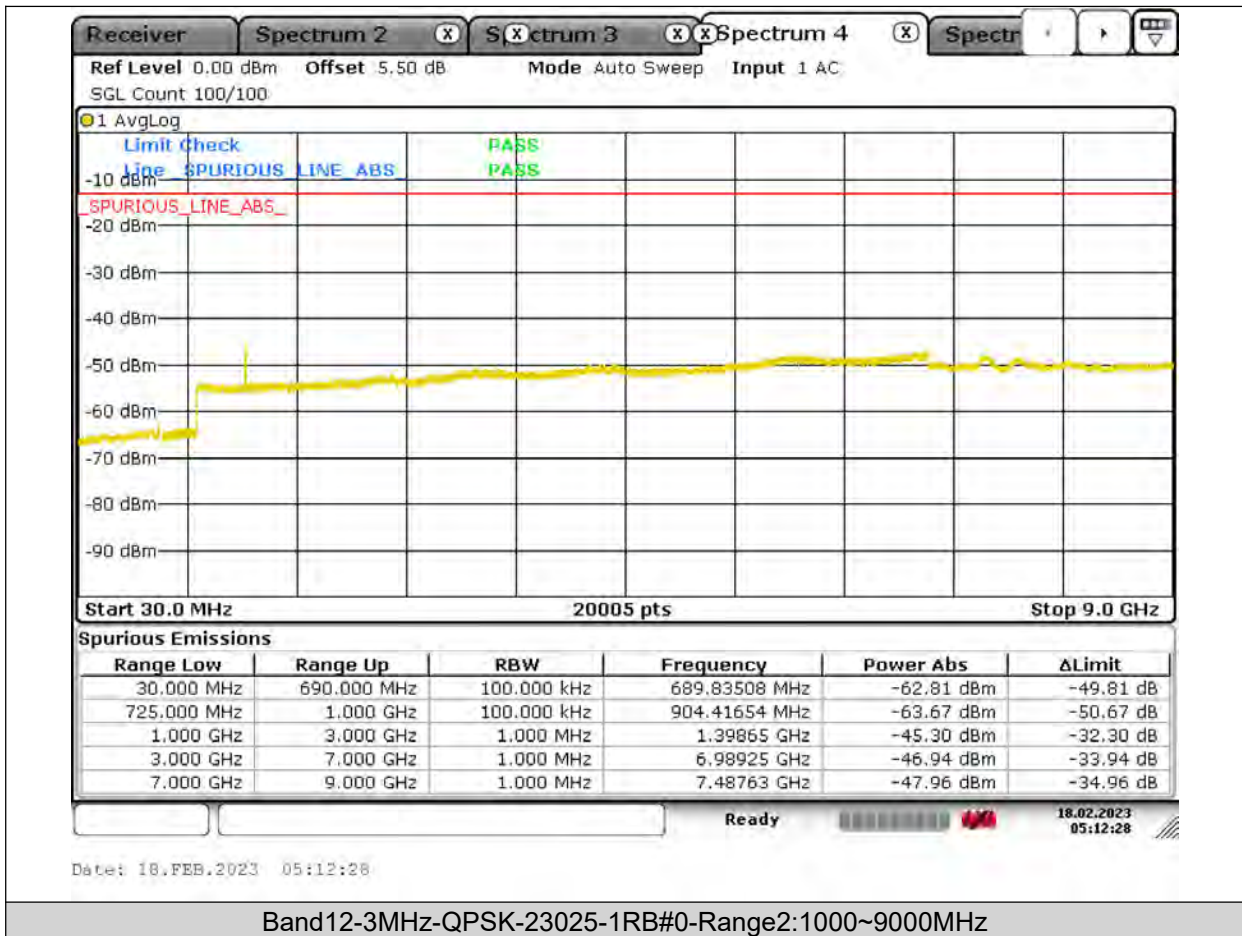
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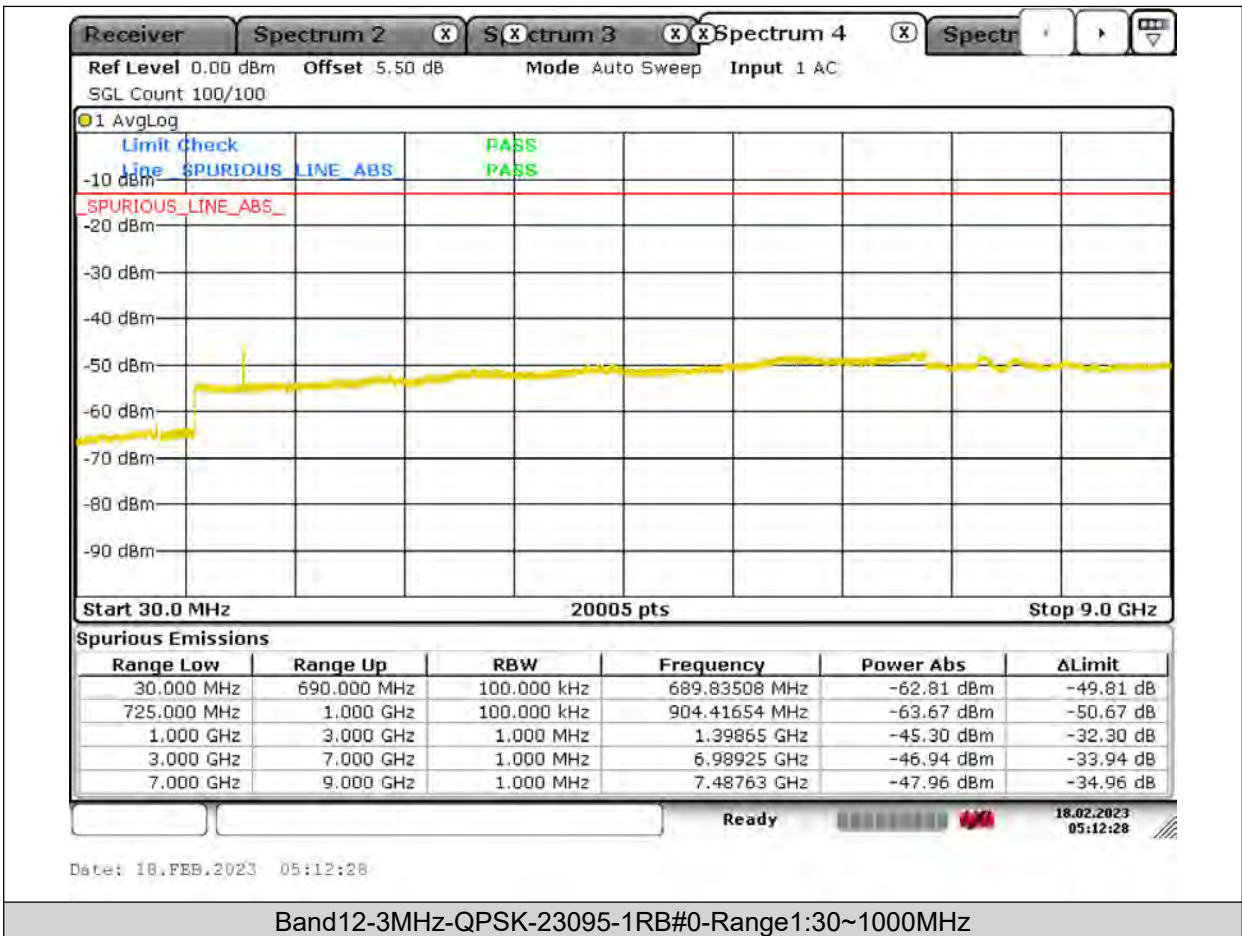
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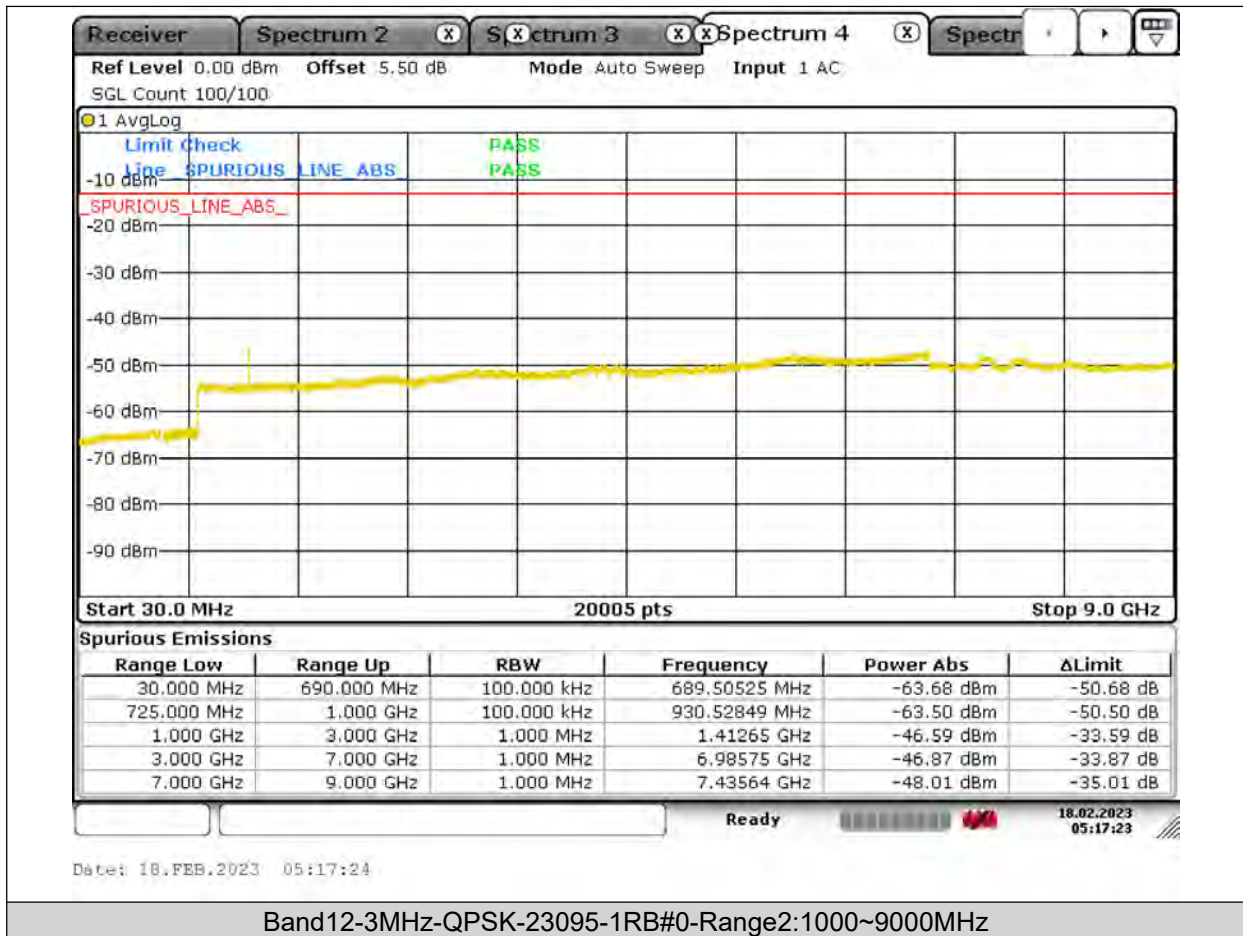






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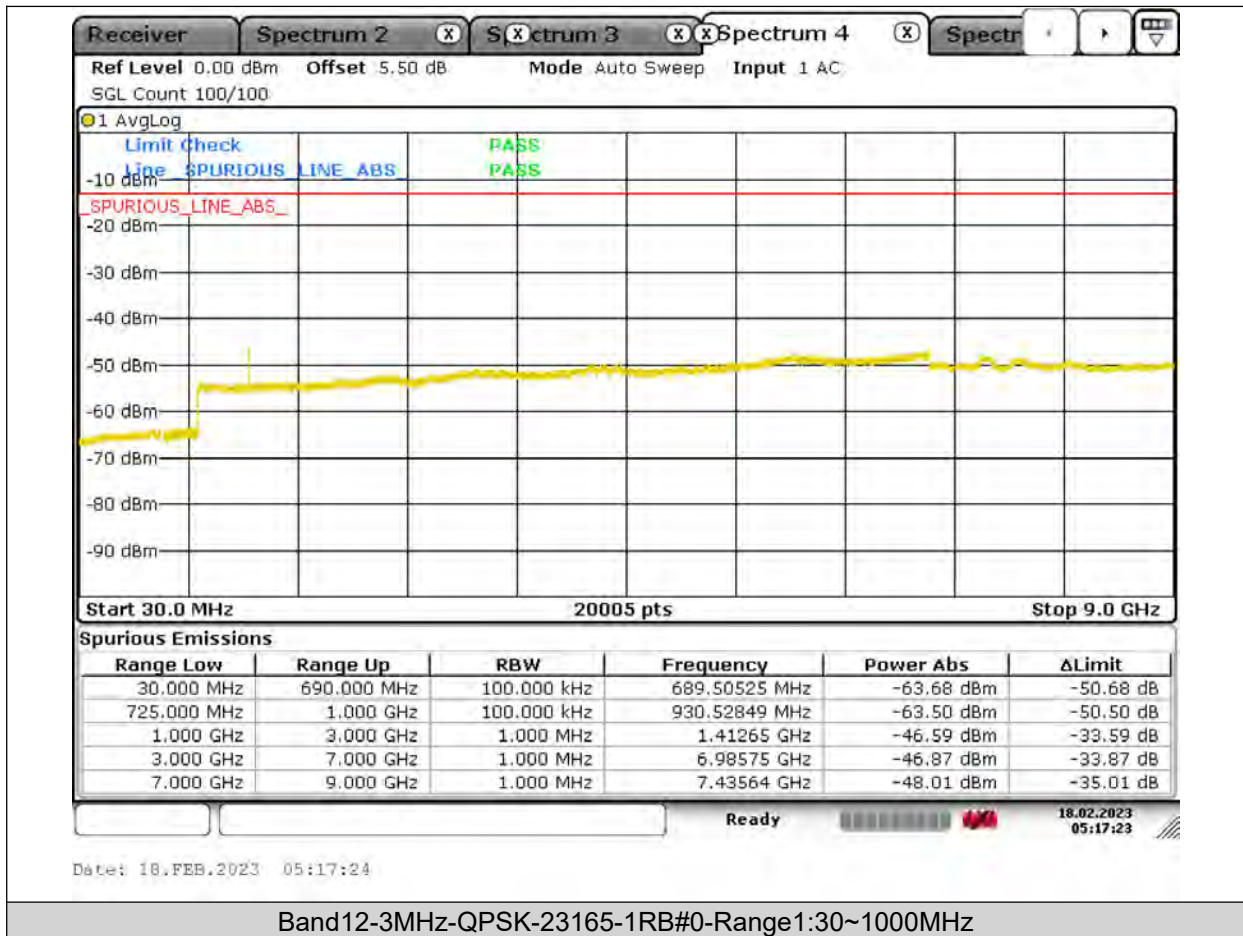
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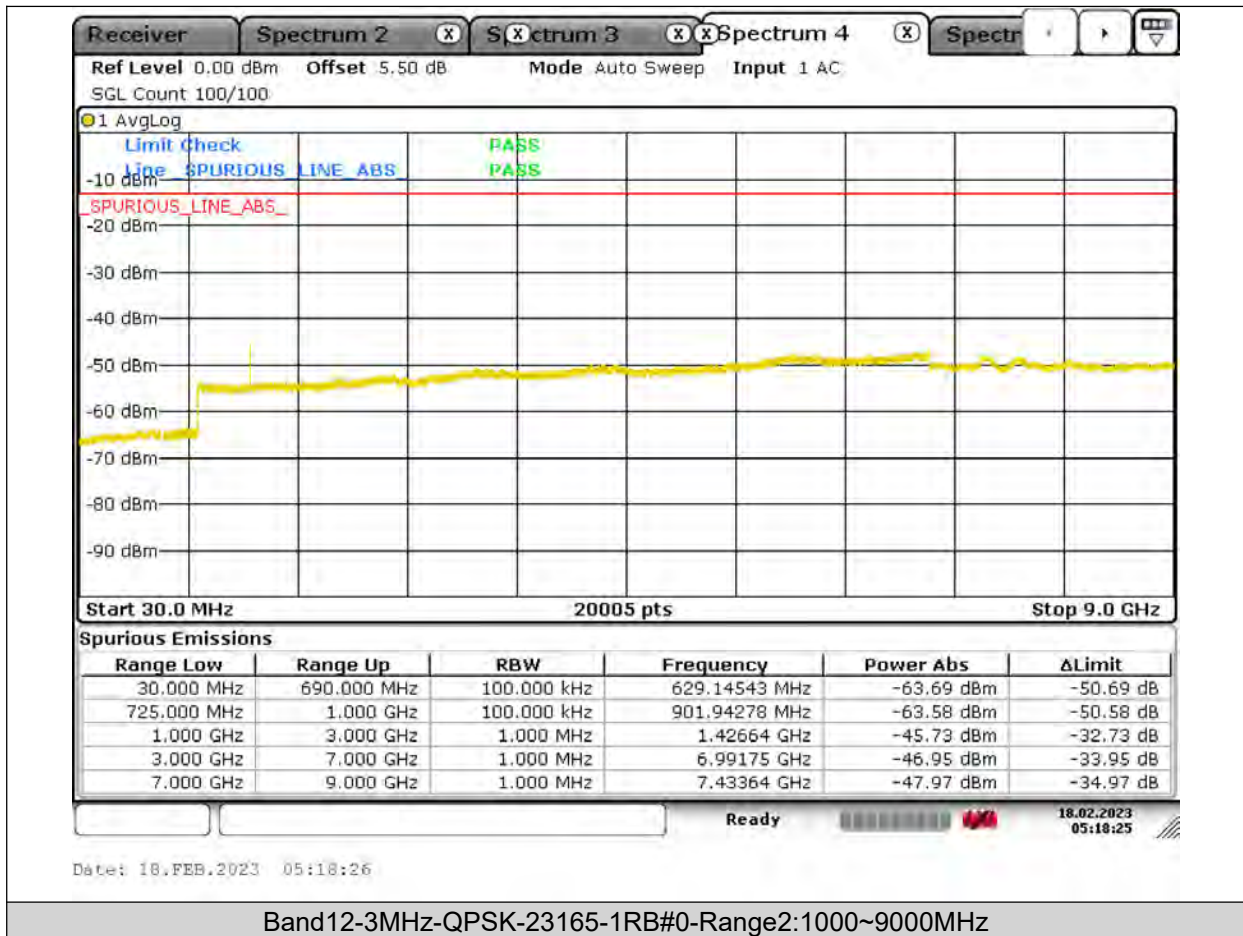
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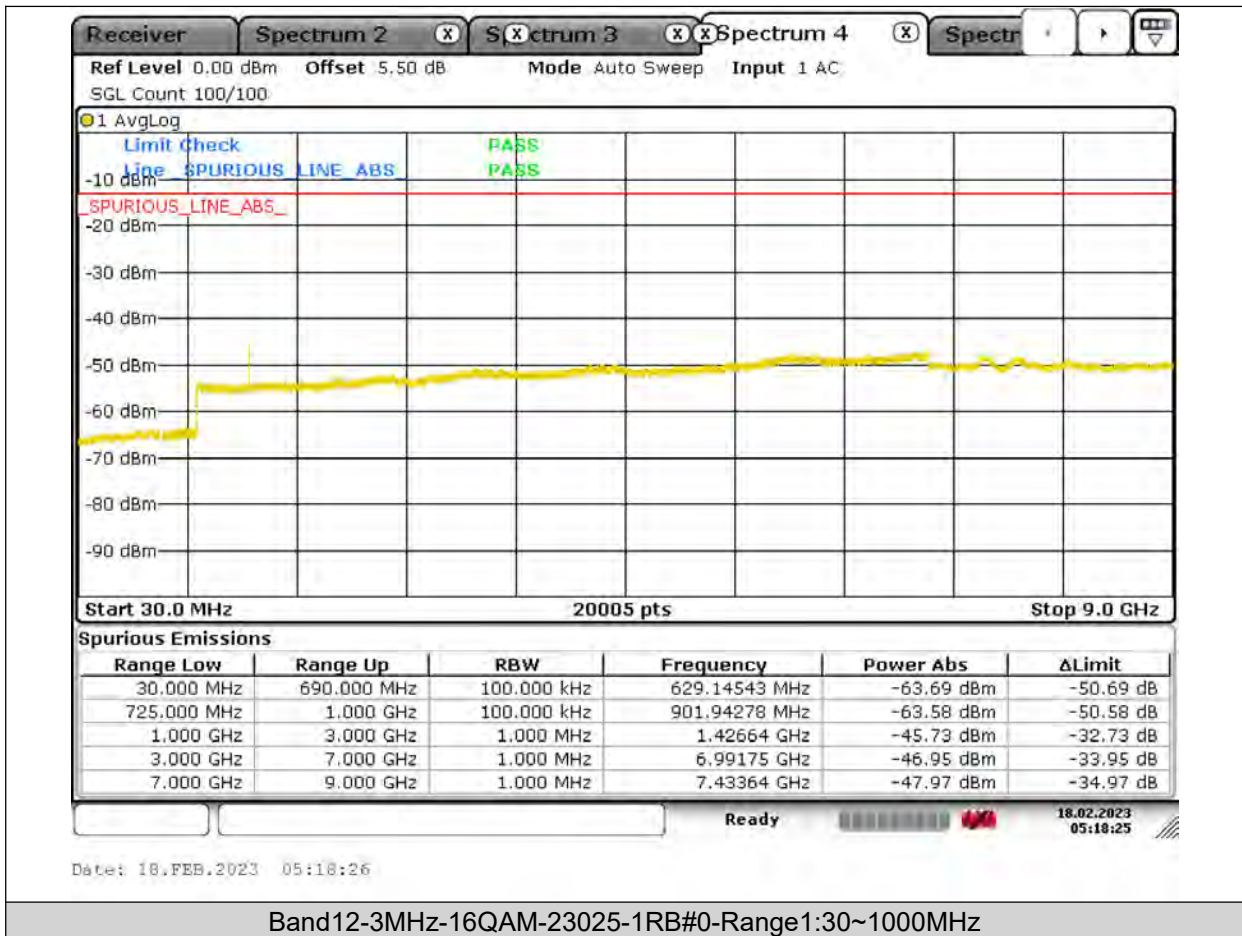
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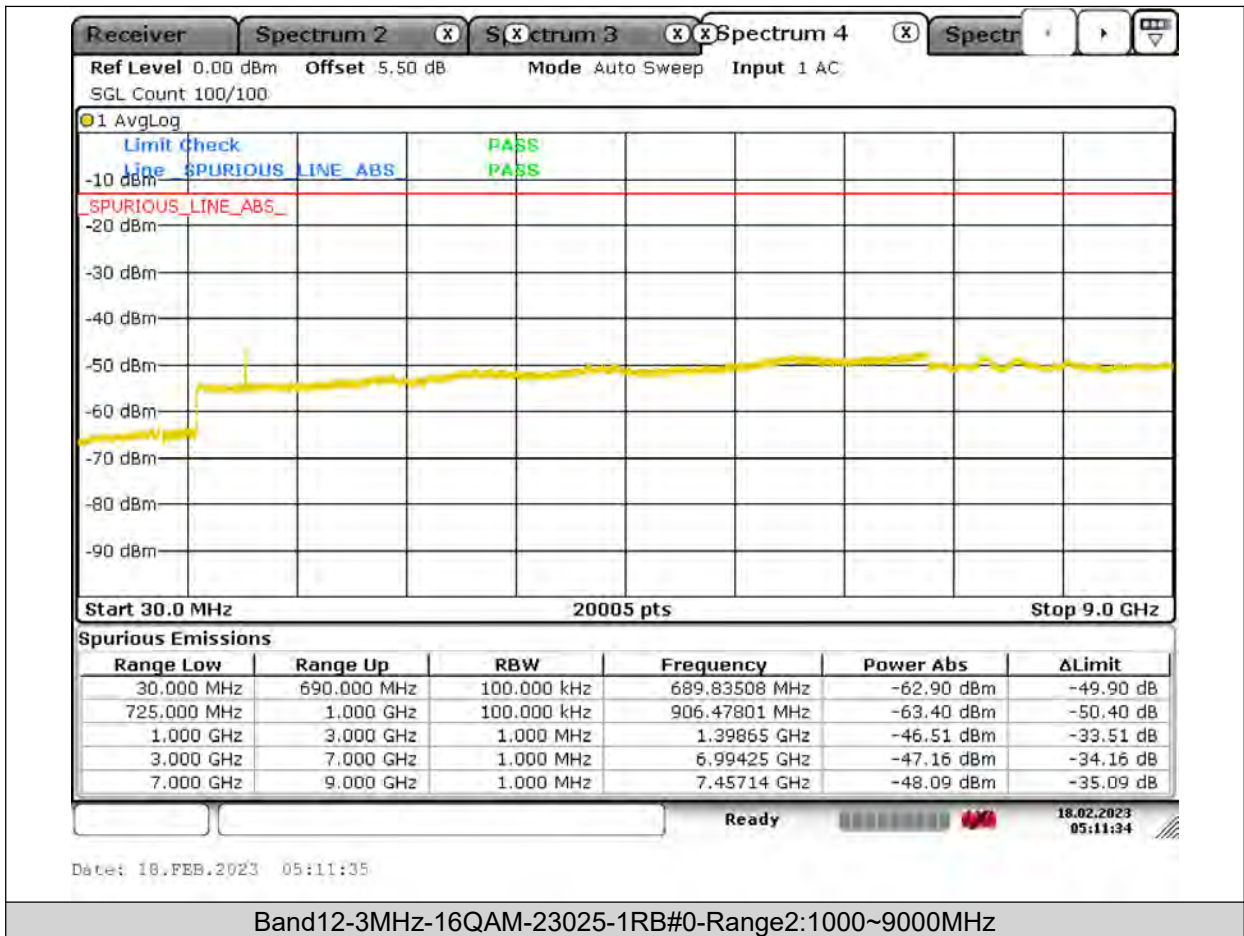
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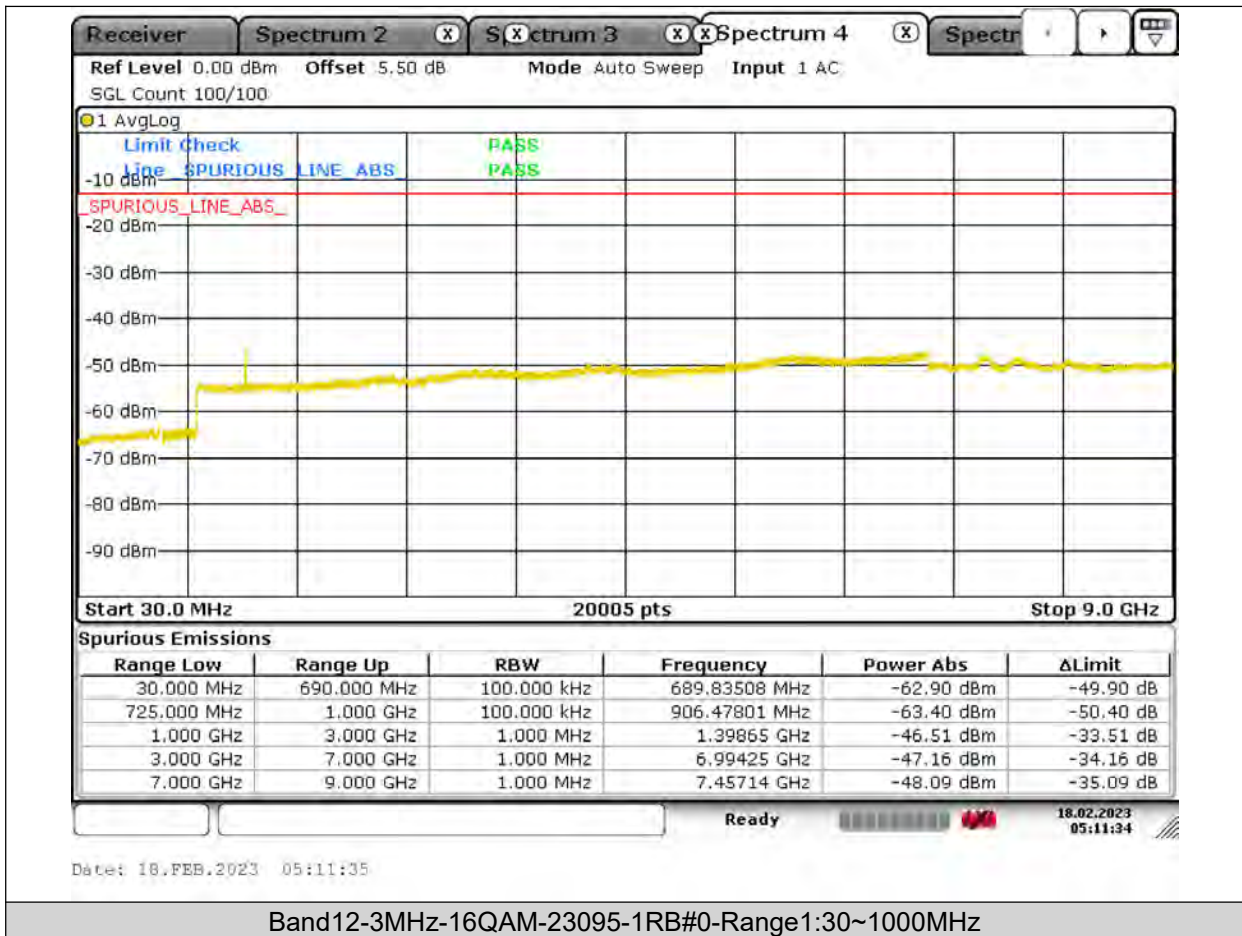
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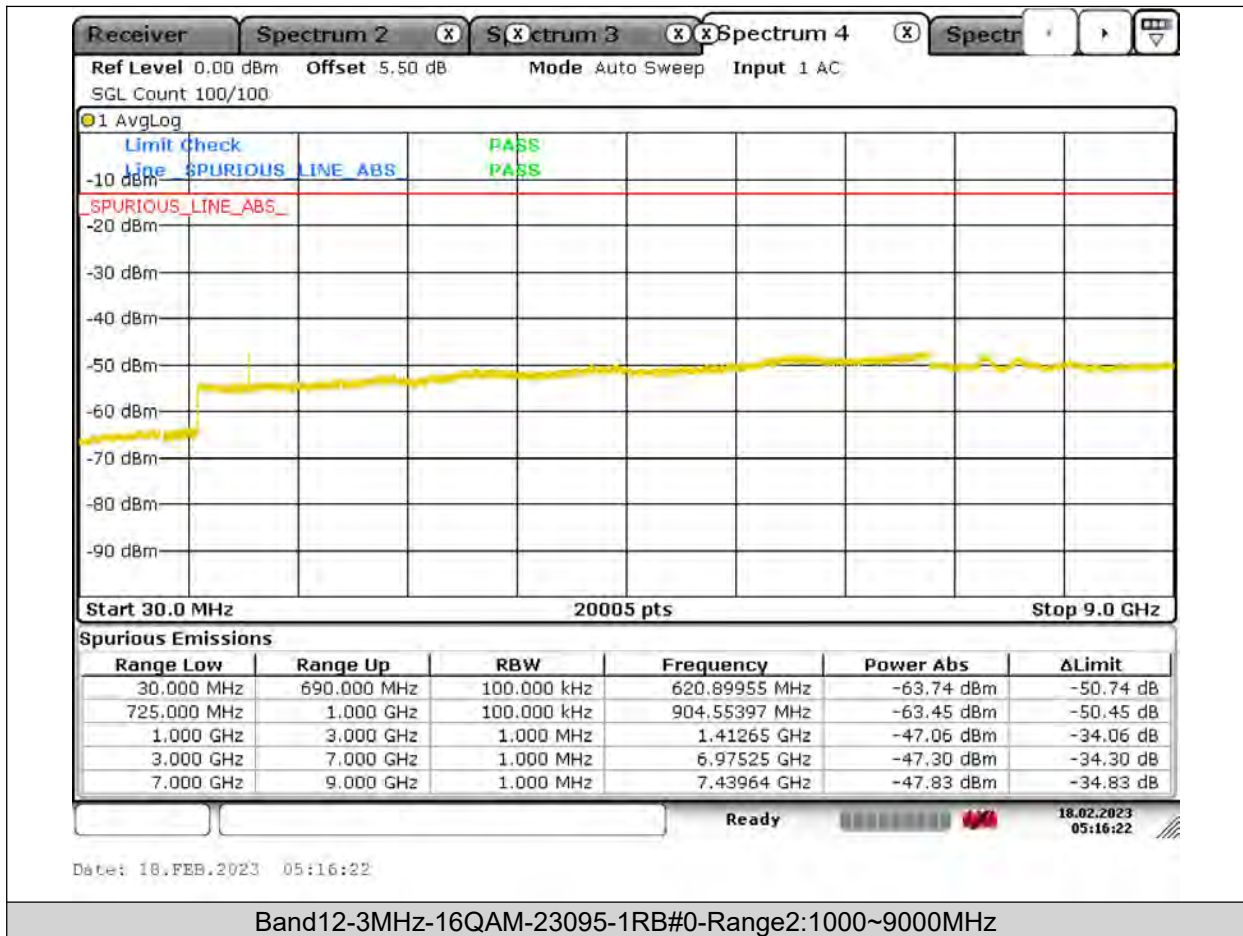
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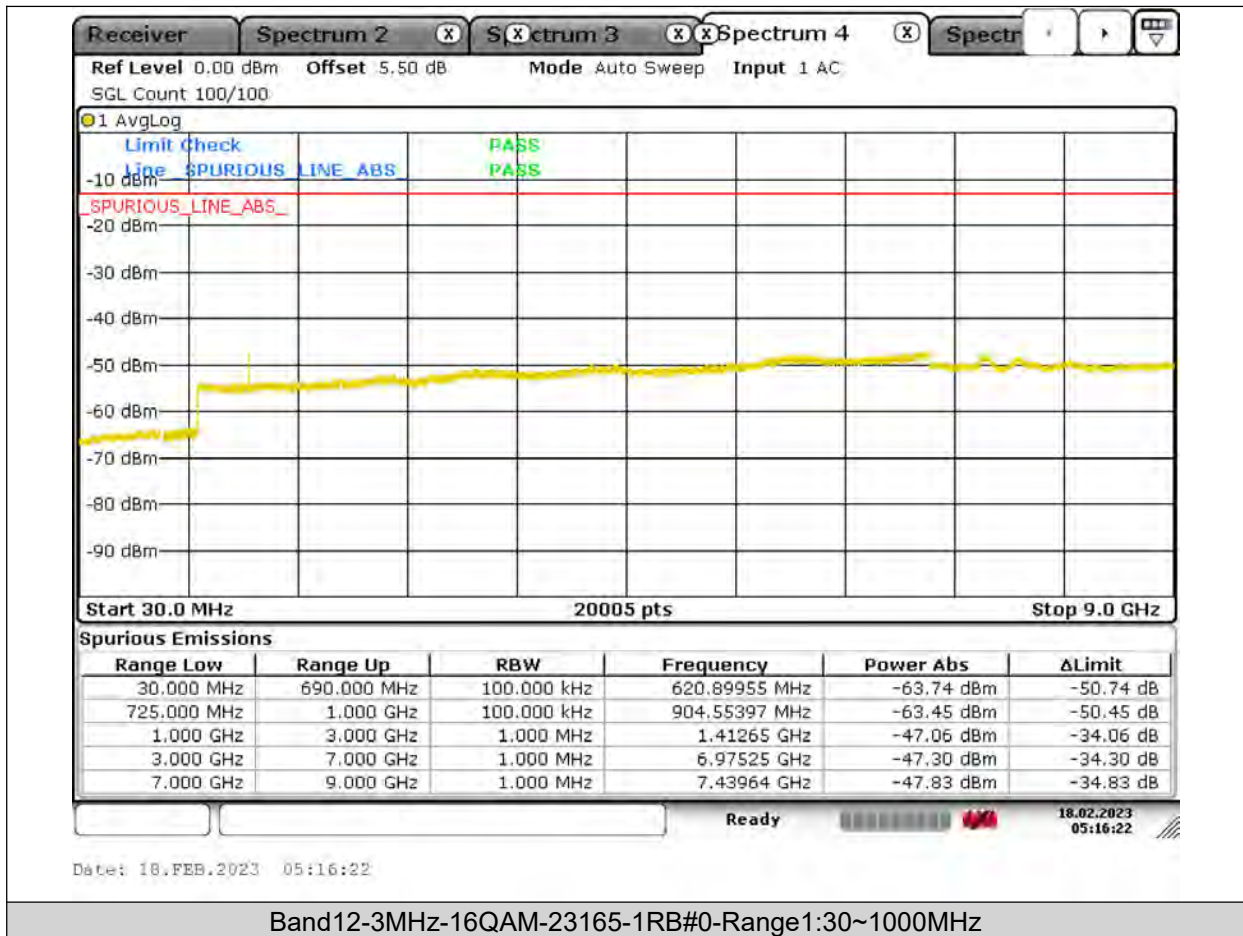
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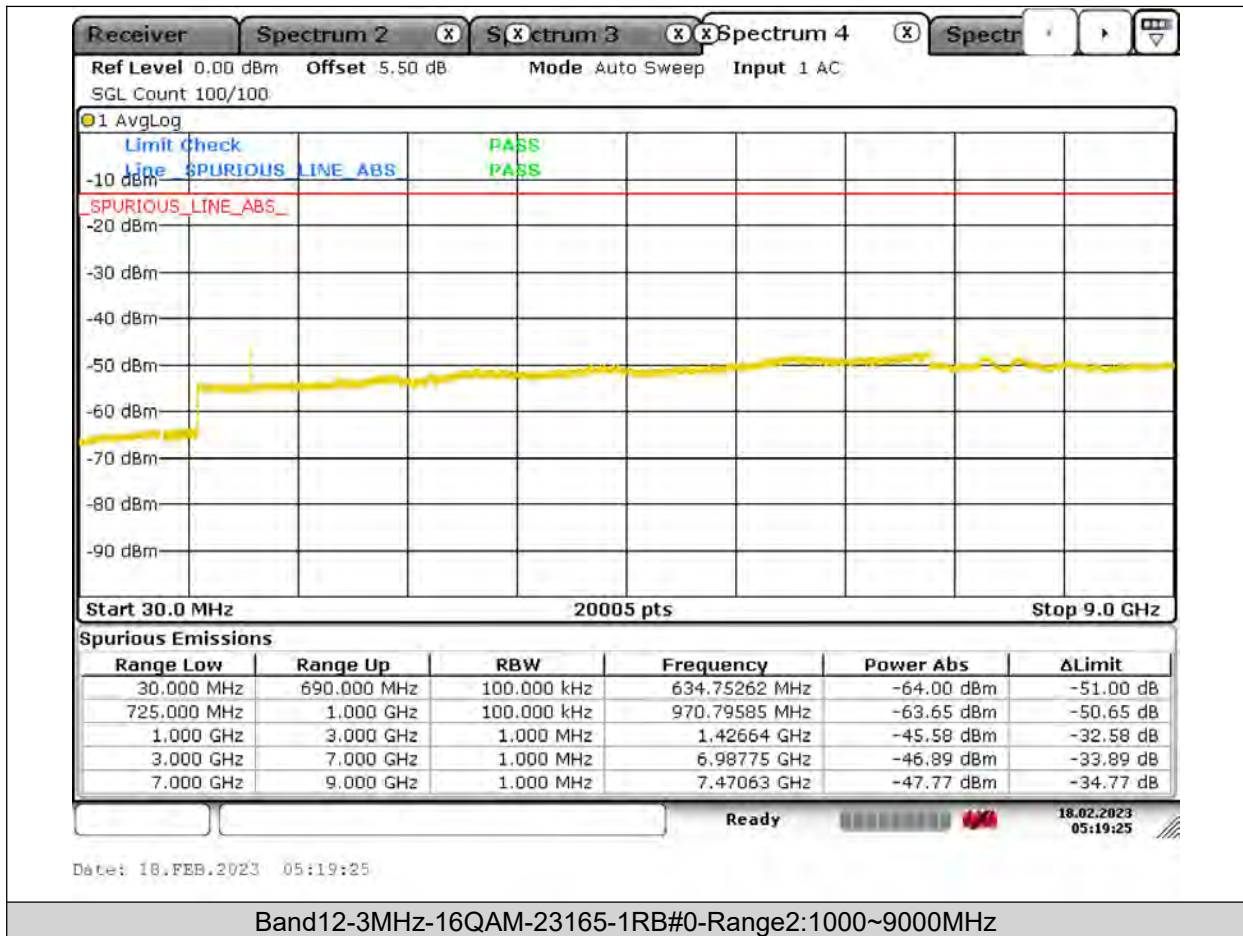






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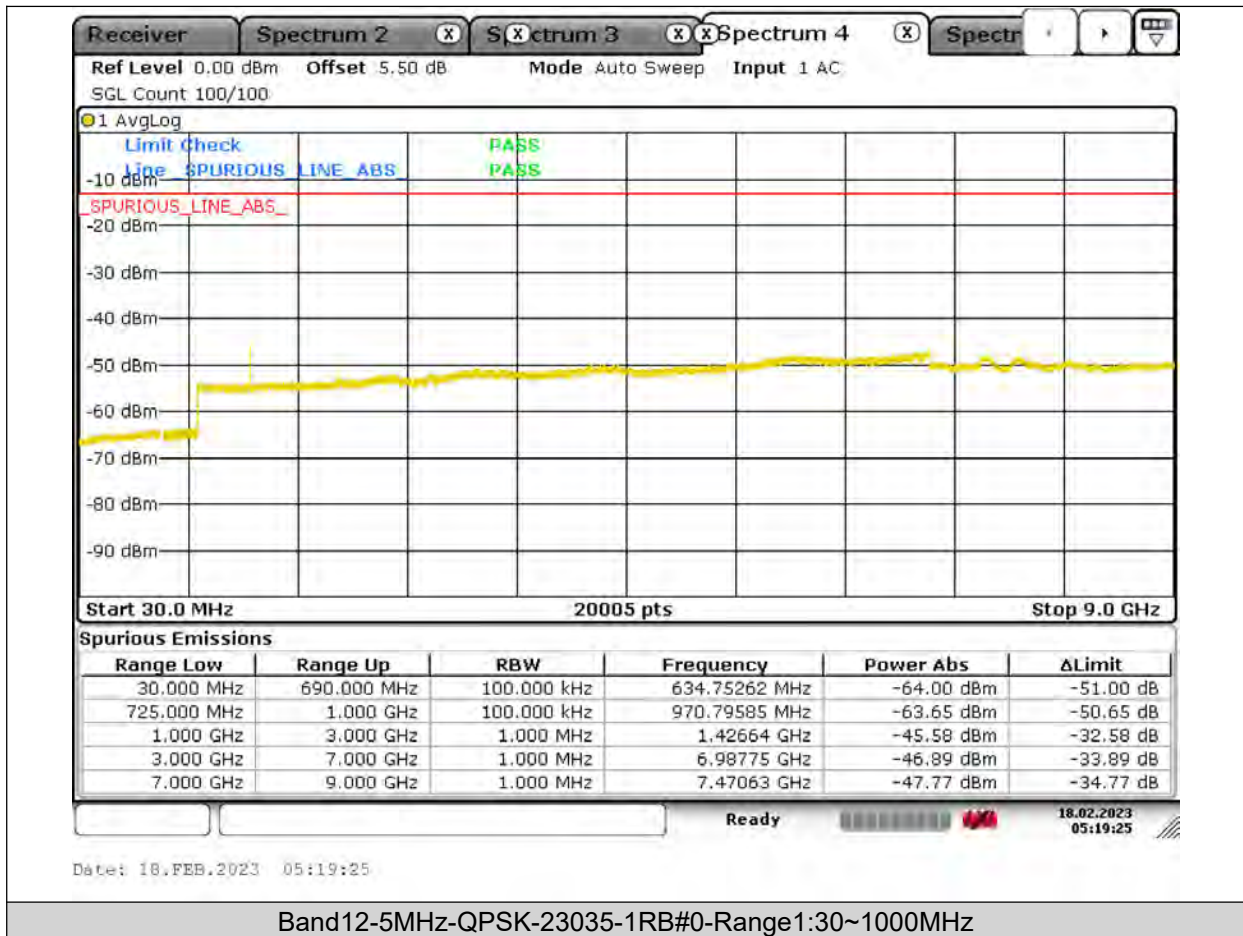
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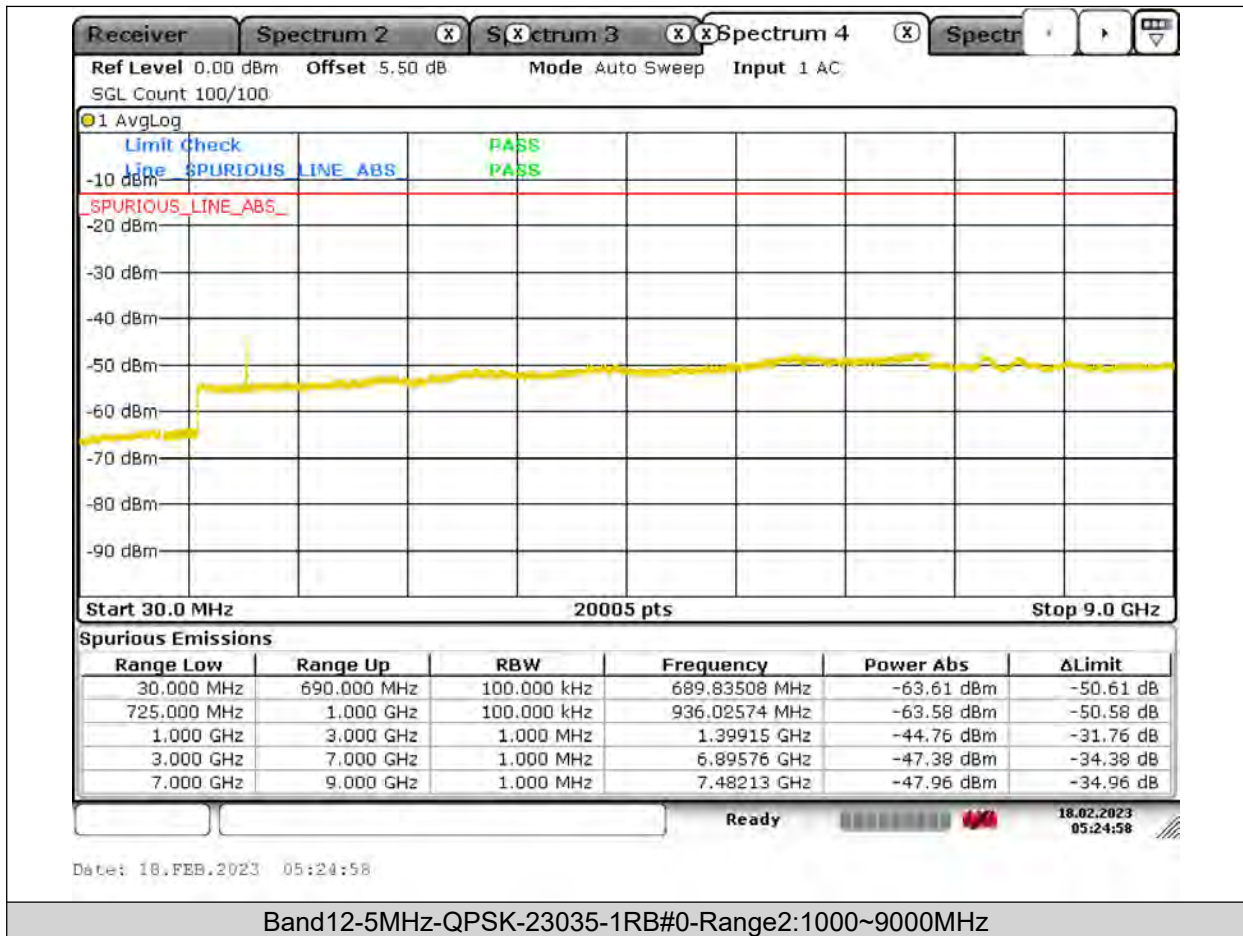
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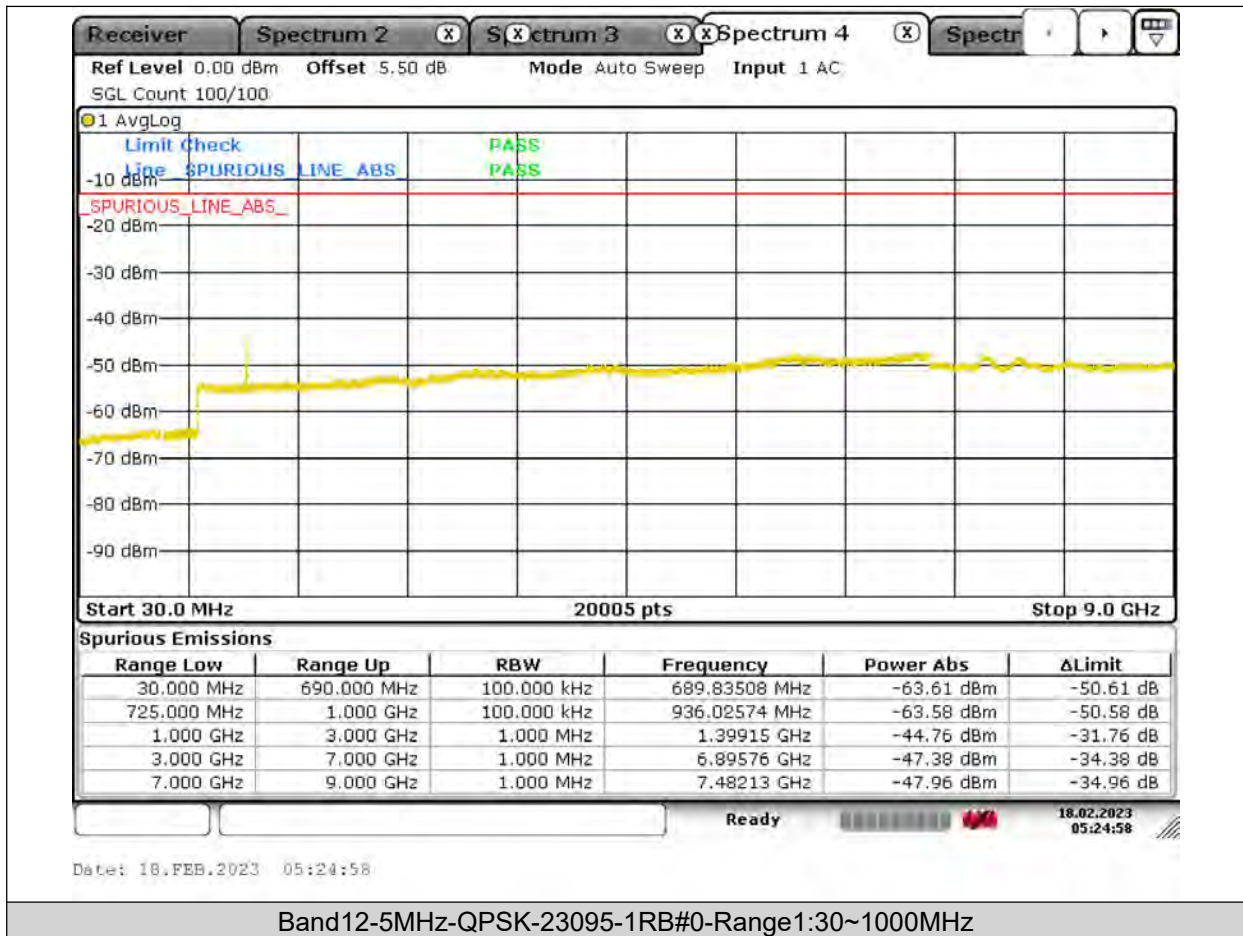
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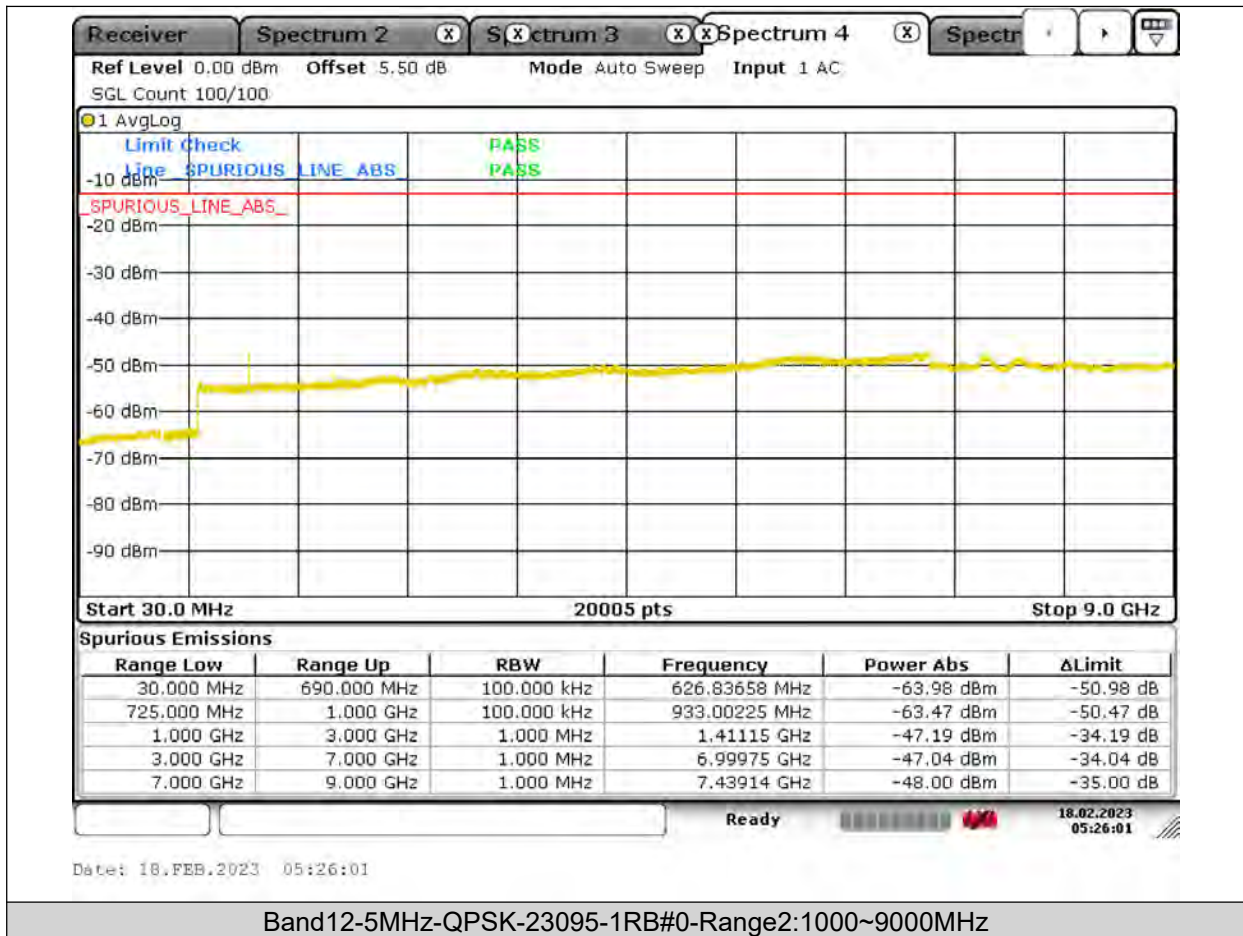
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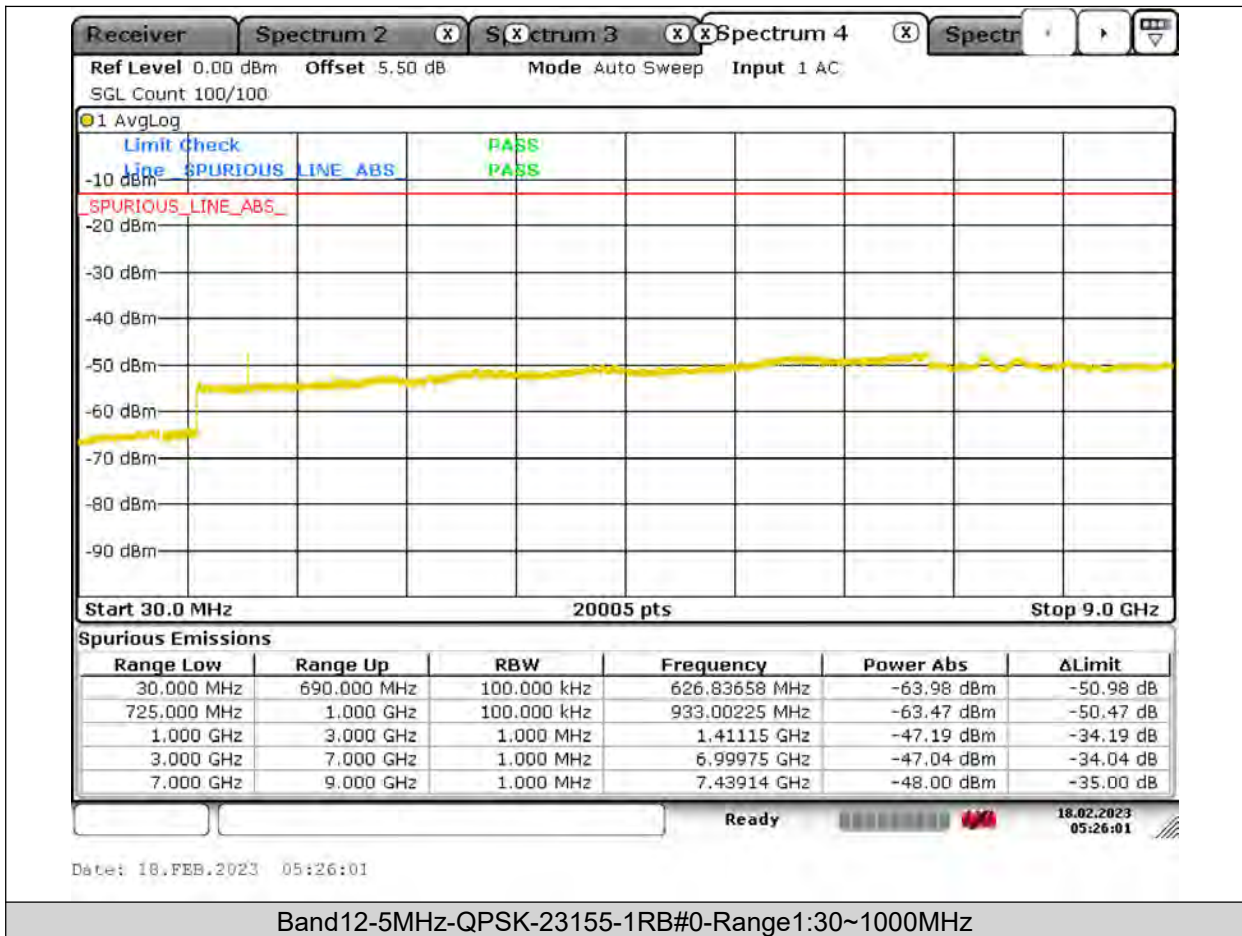
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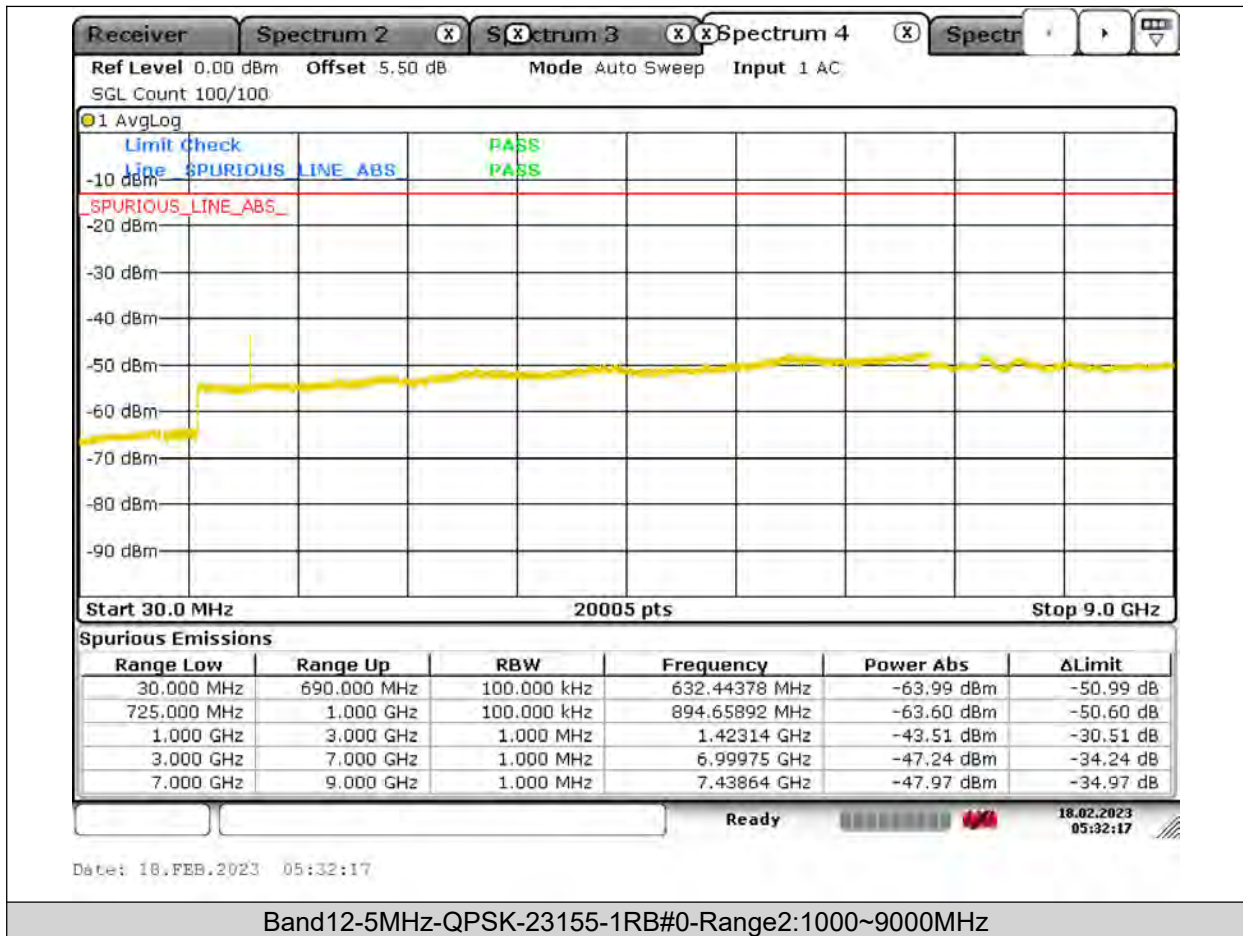
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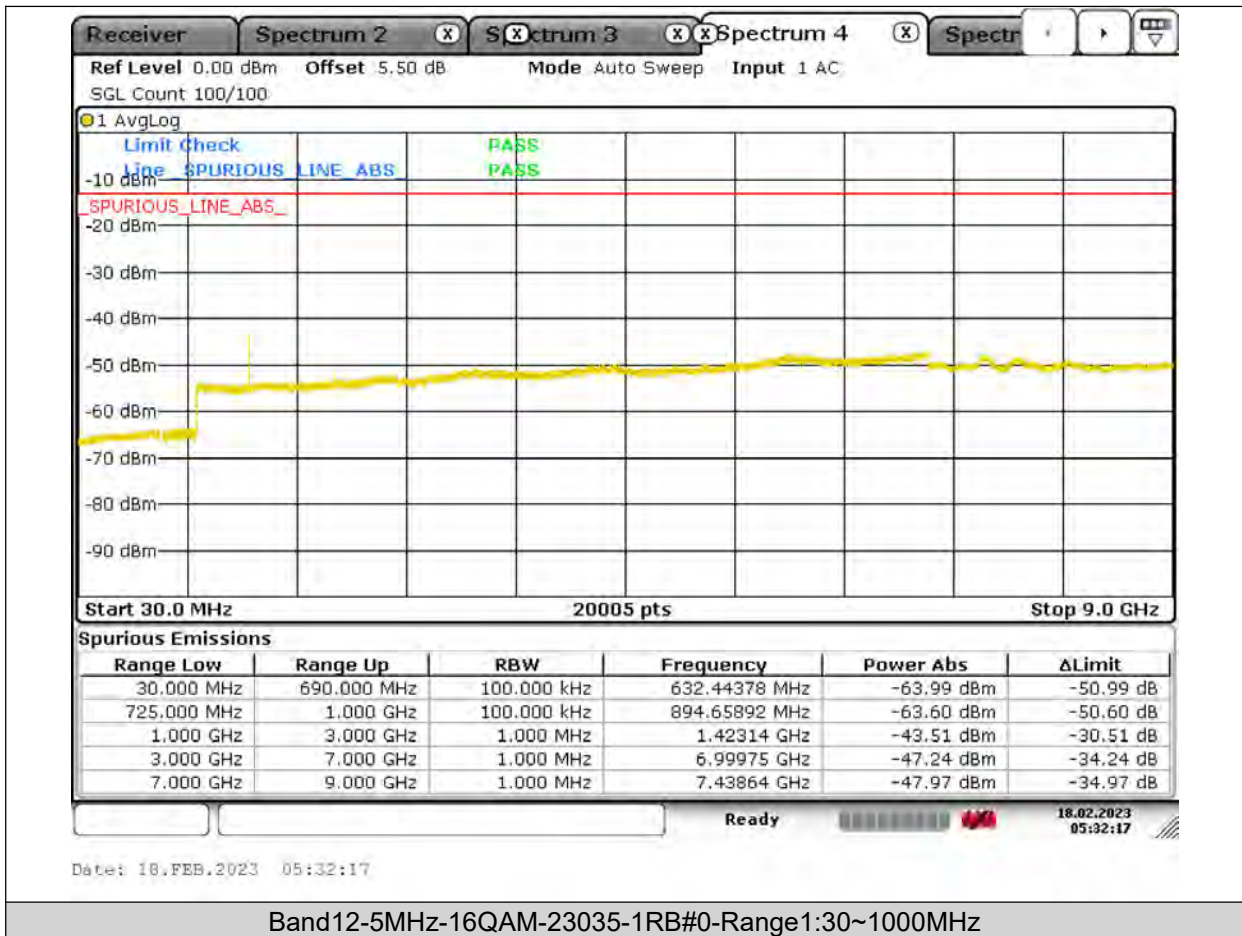
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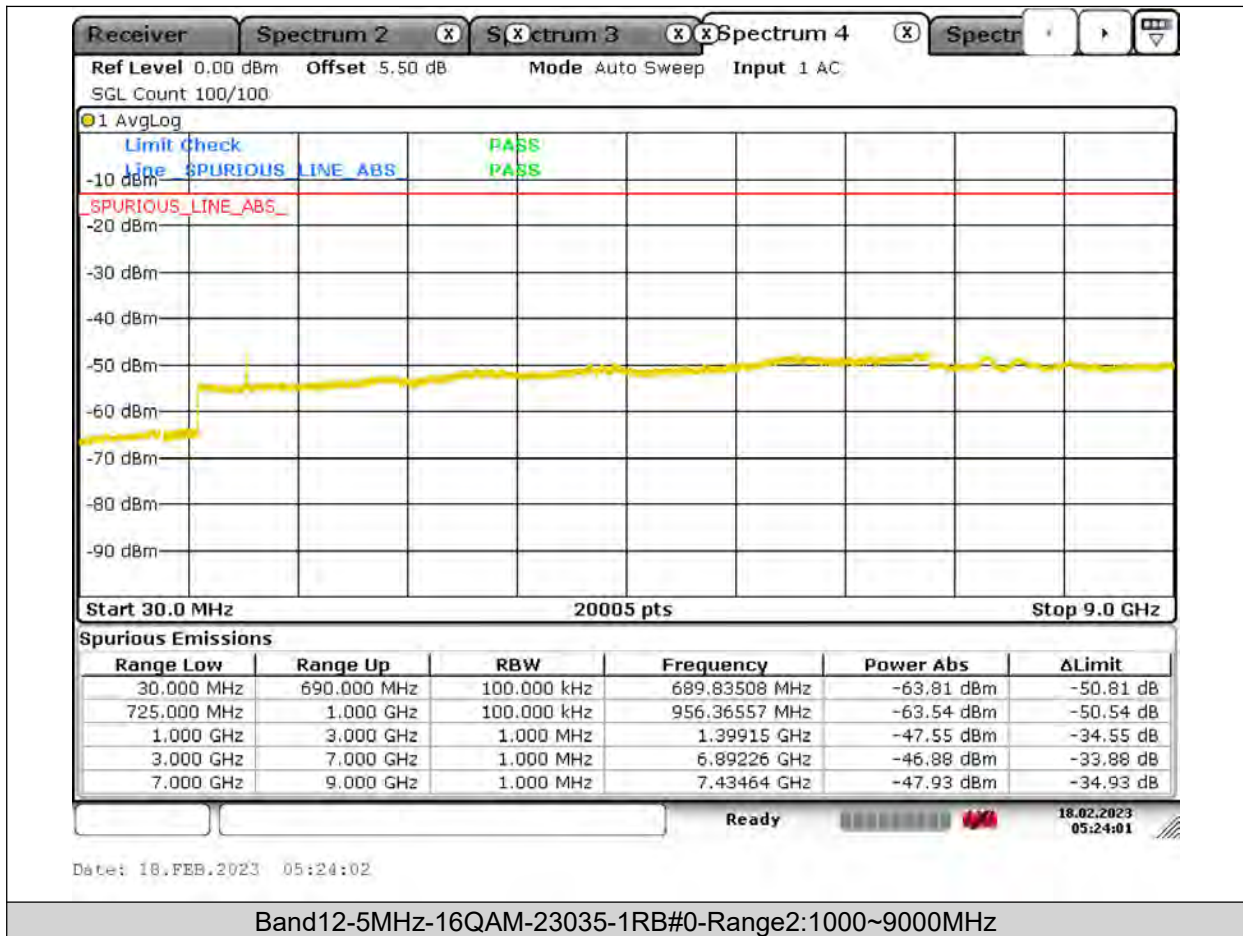






BUREAU  
VERITAS

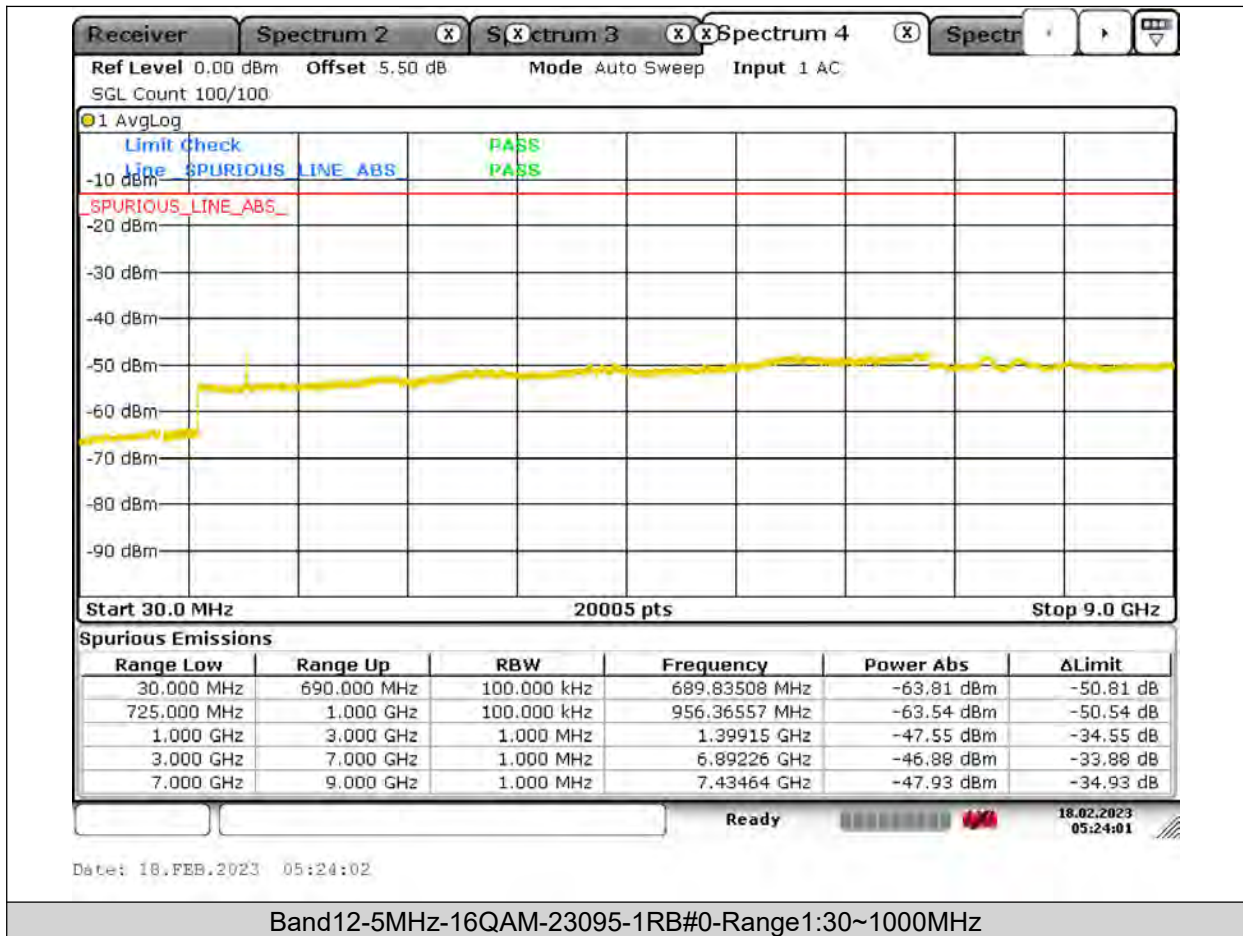
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

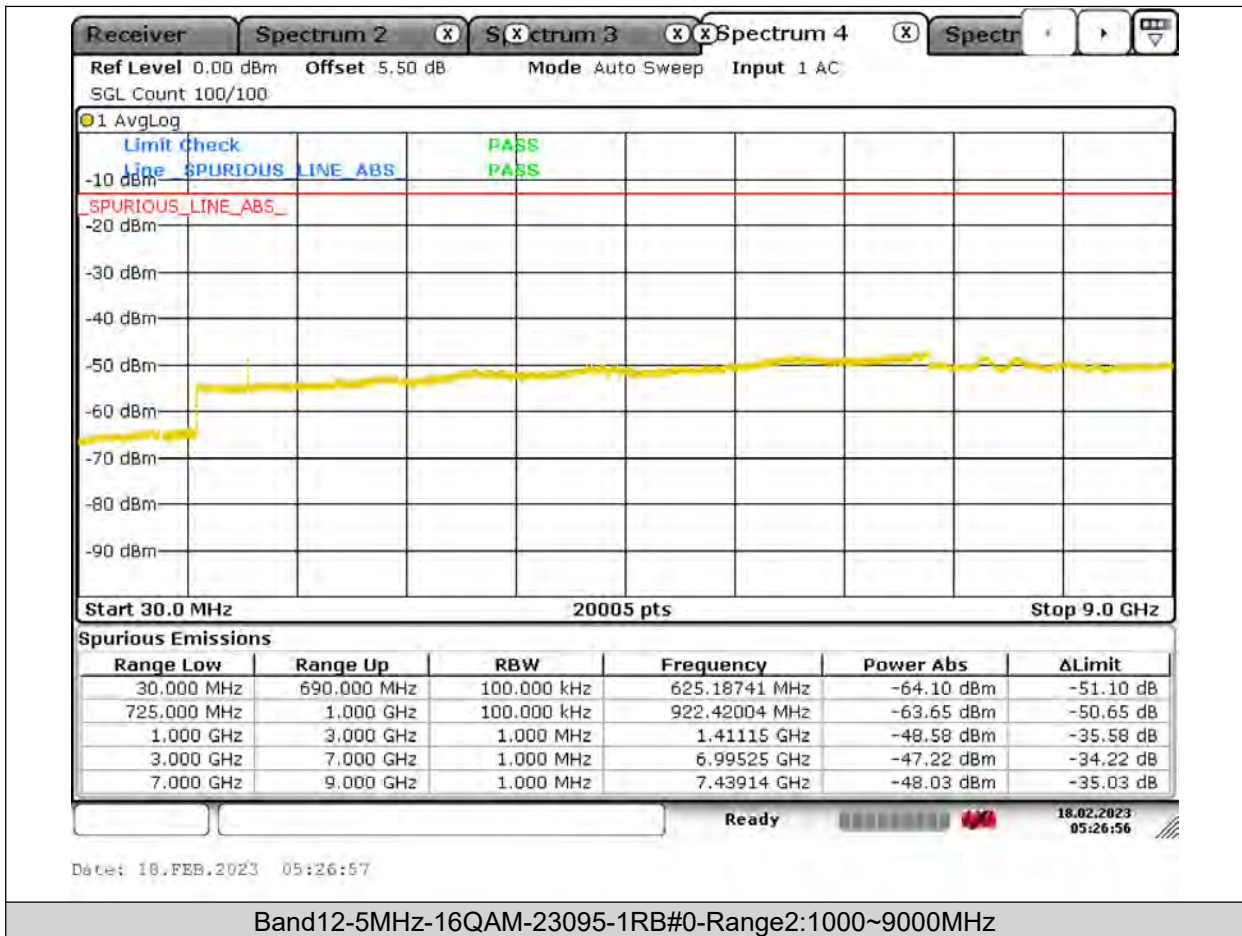
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VERITAS

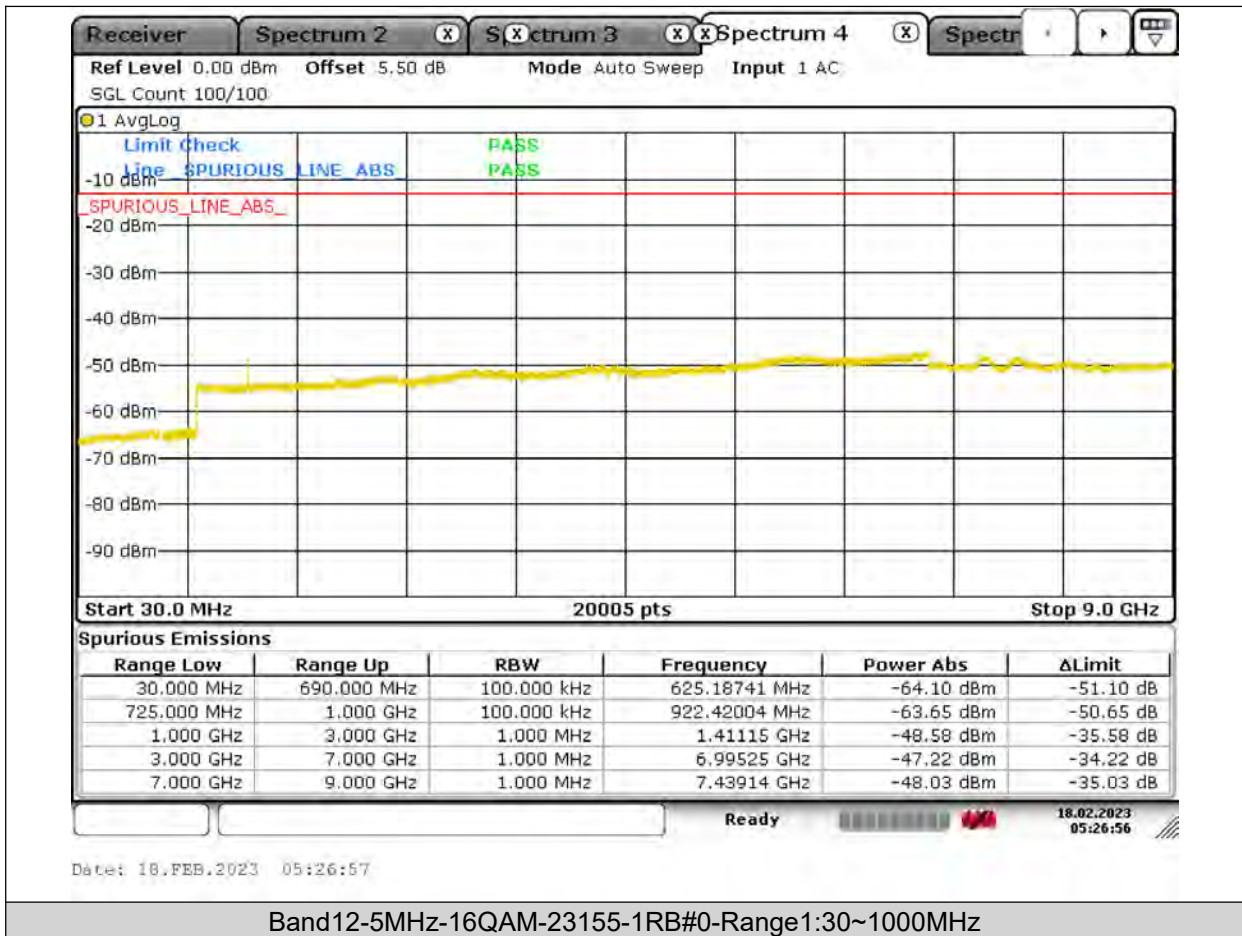
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VERITAS

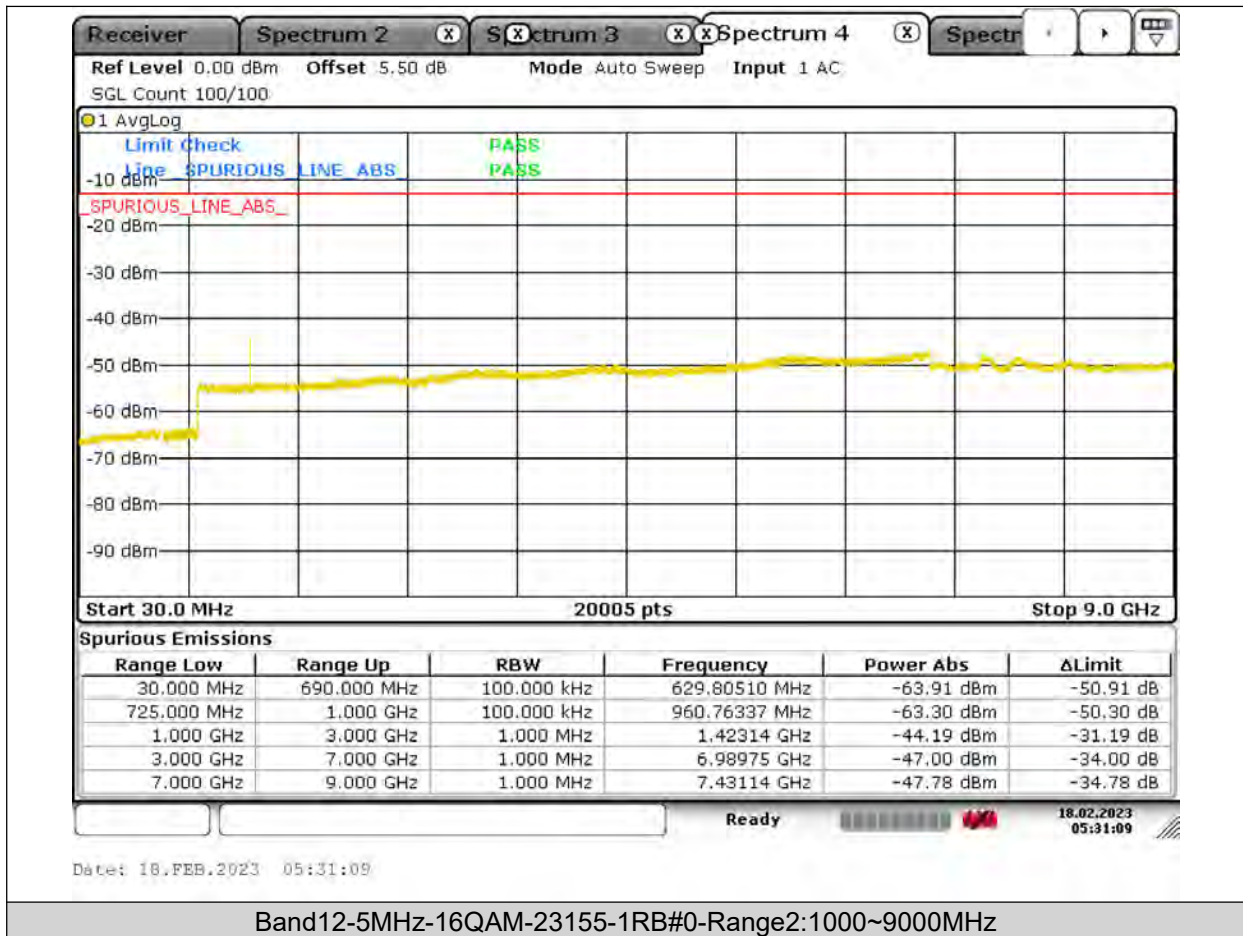
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VERITAS

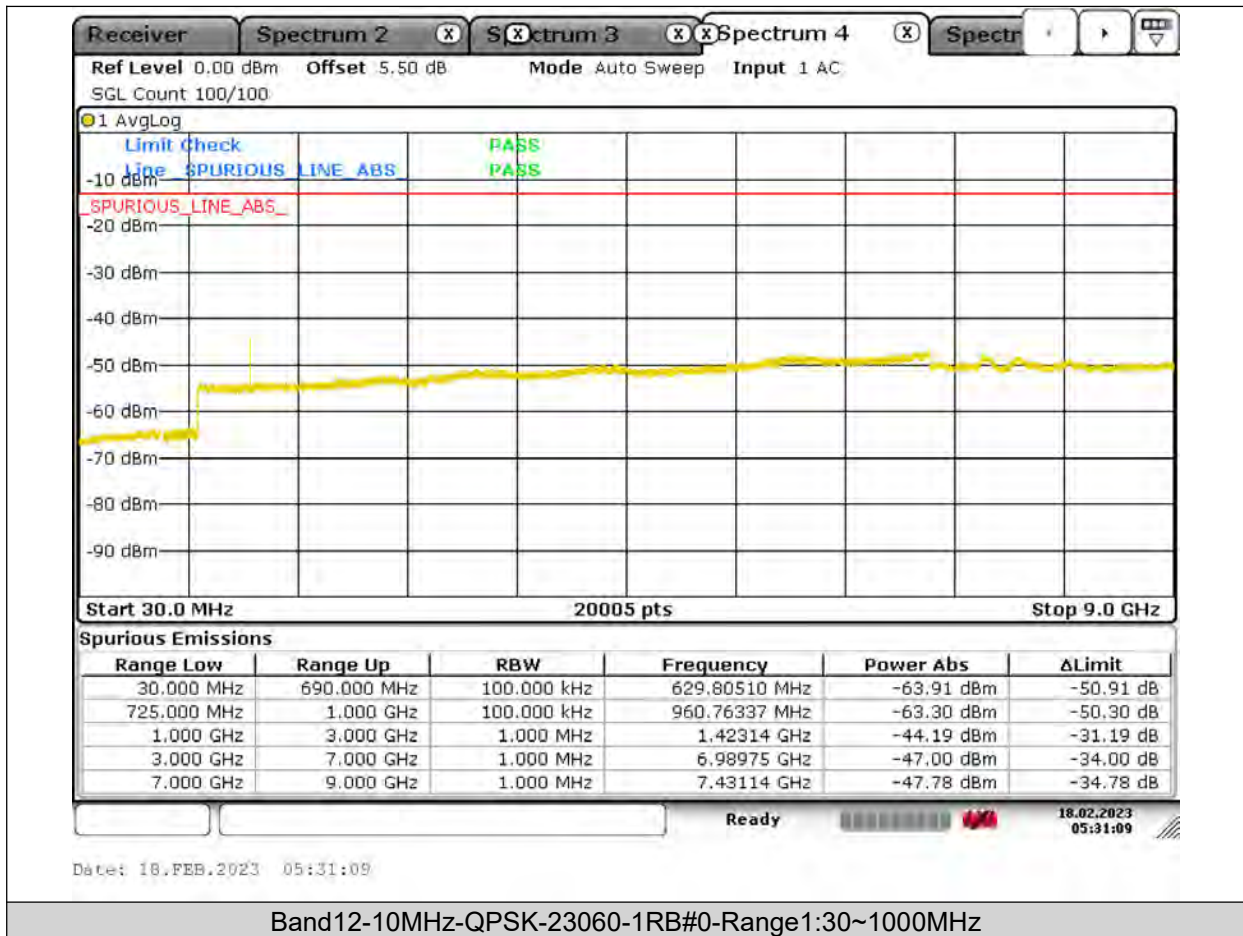
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

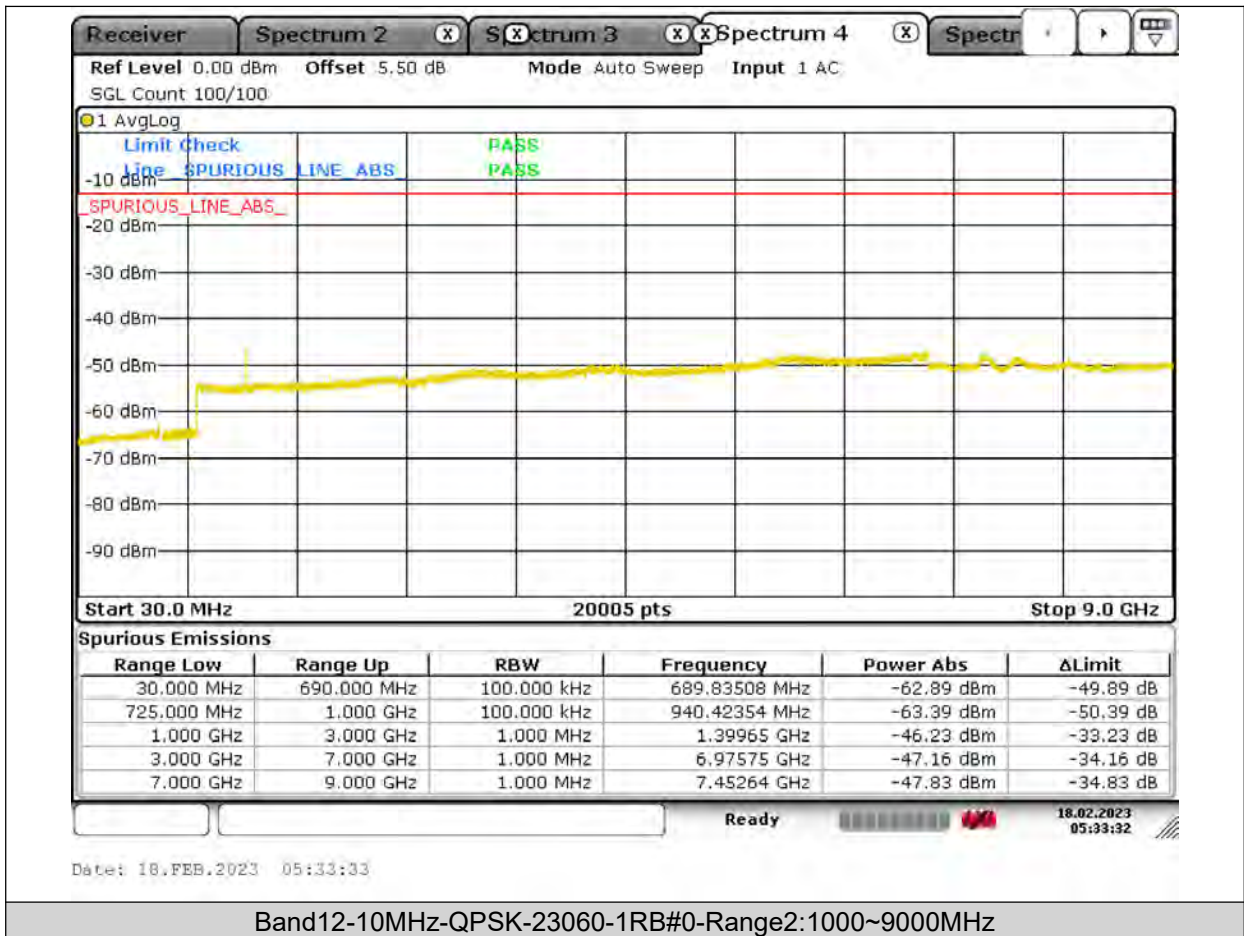
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VERITAS

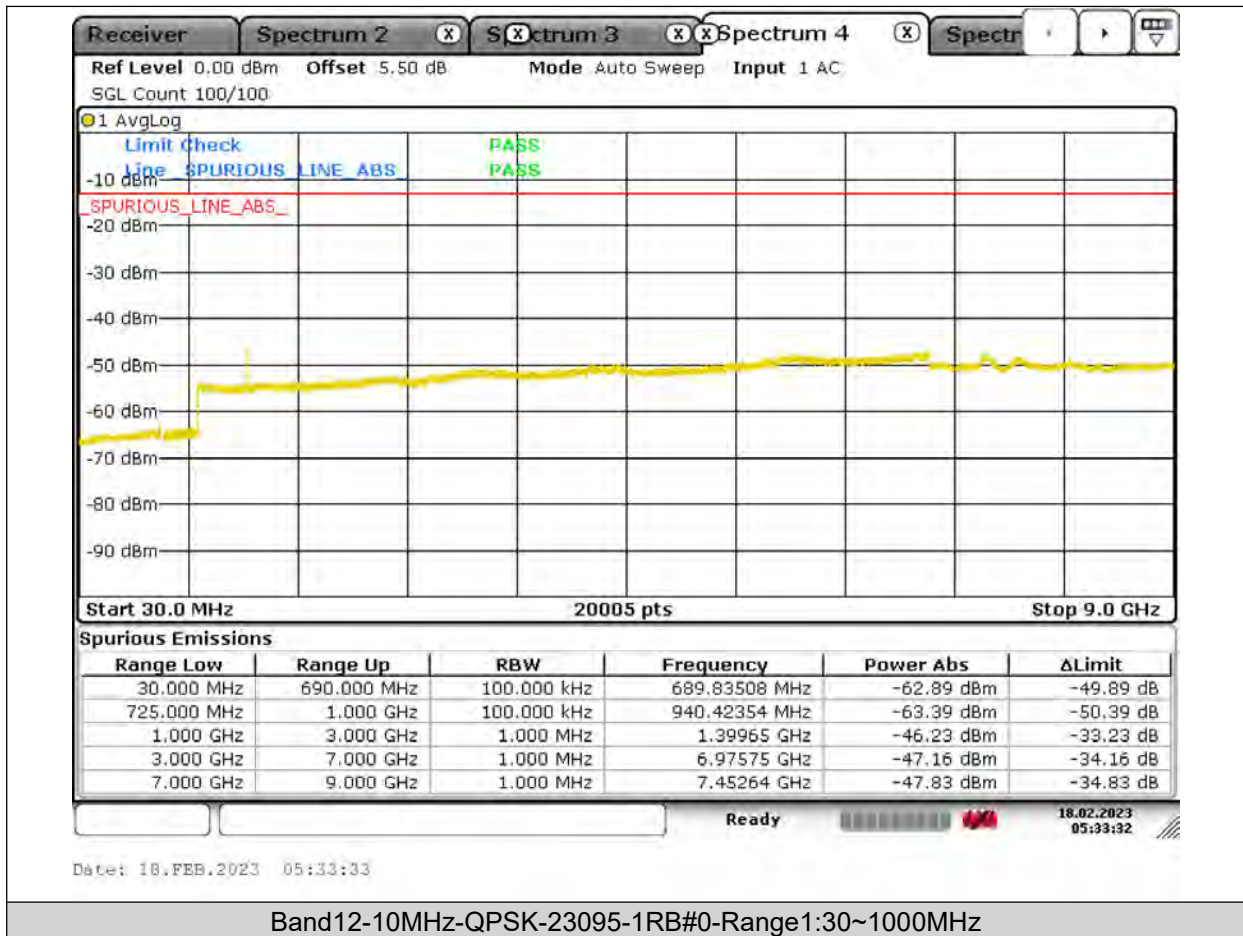
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BUREAU  
VERITAS

Test Report No.: PSU-QSU2308280414RF03







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VERITAS

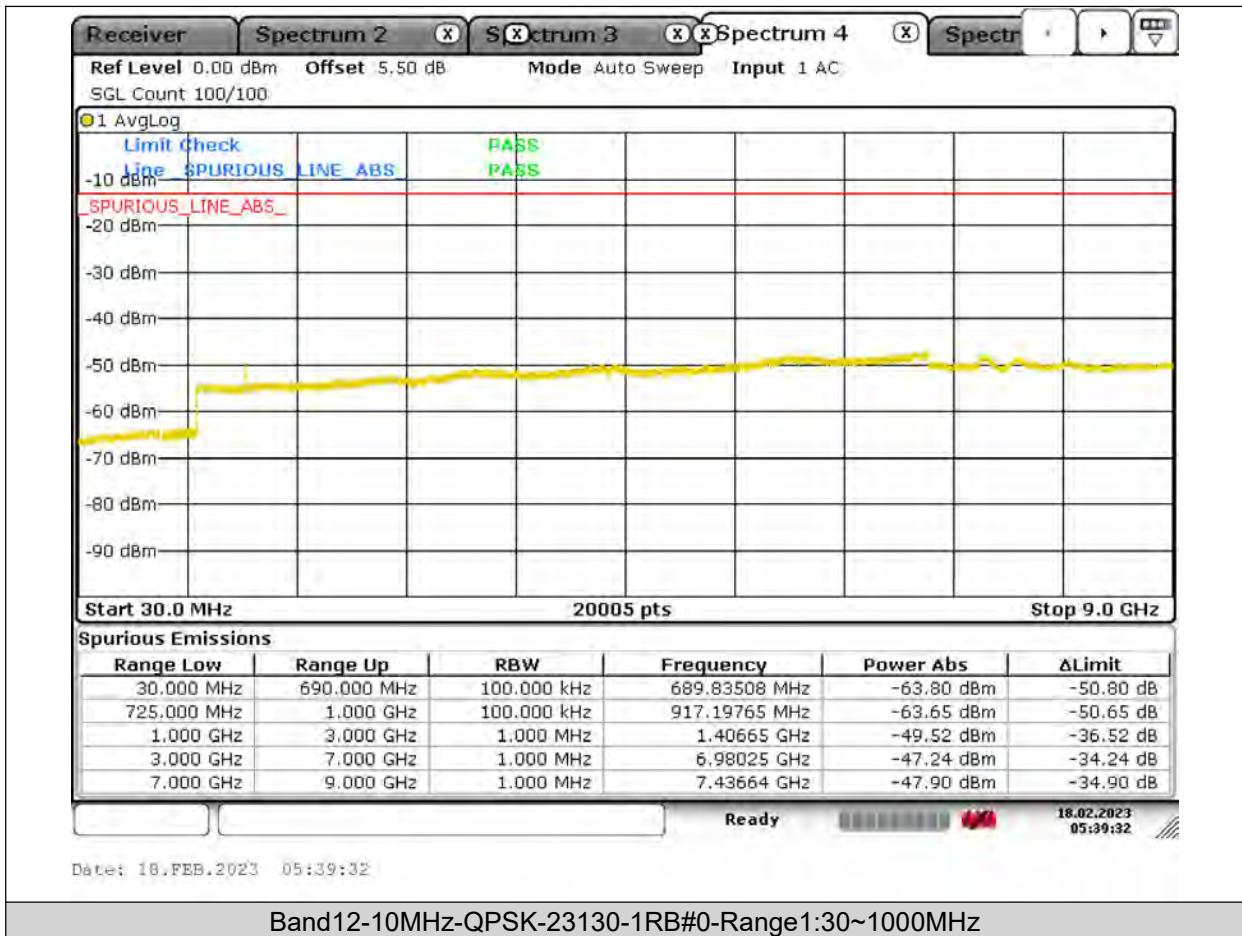
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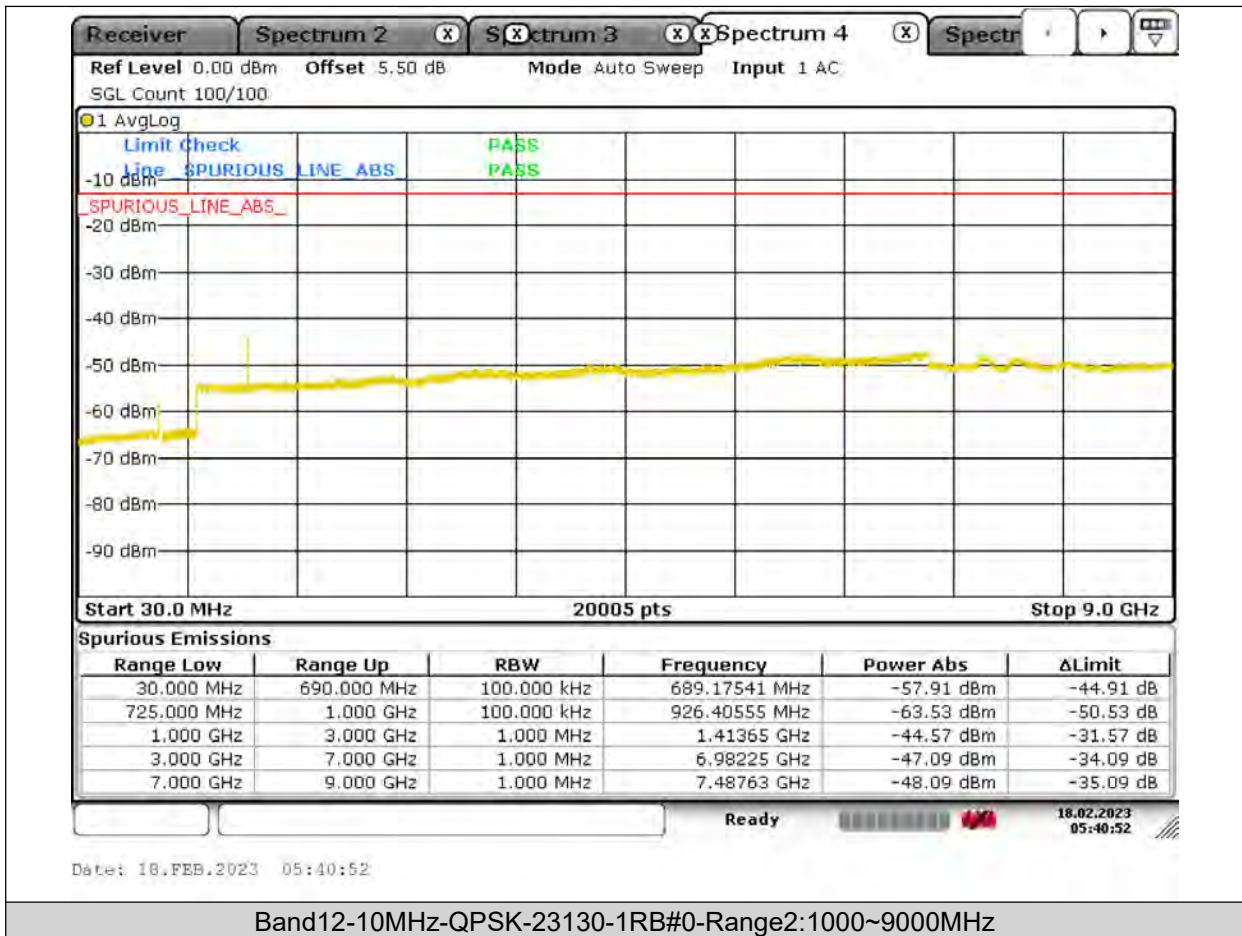
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

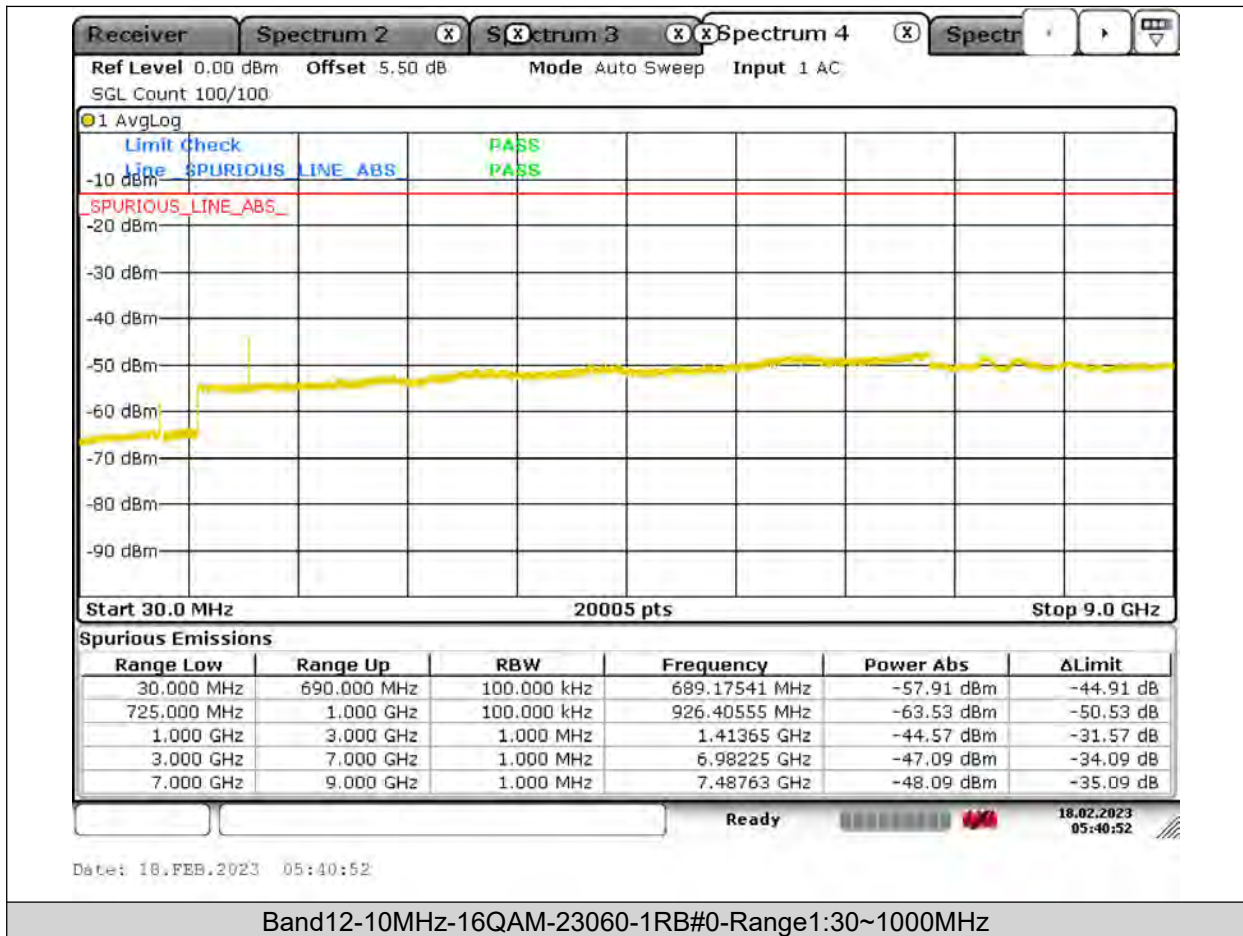
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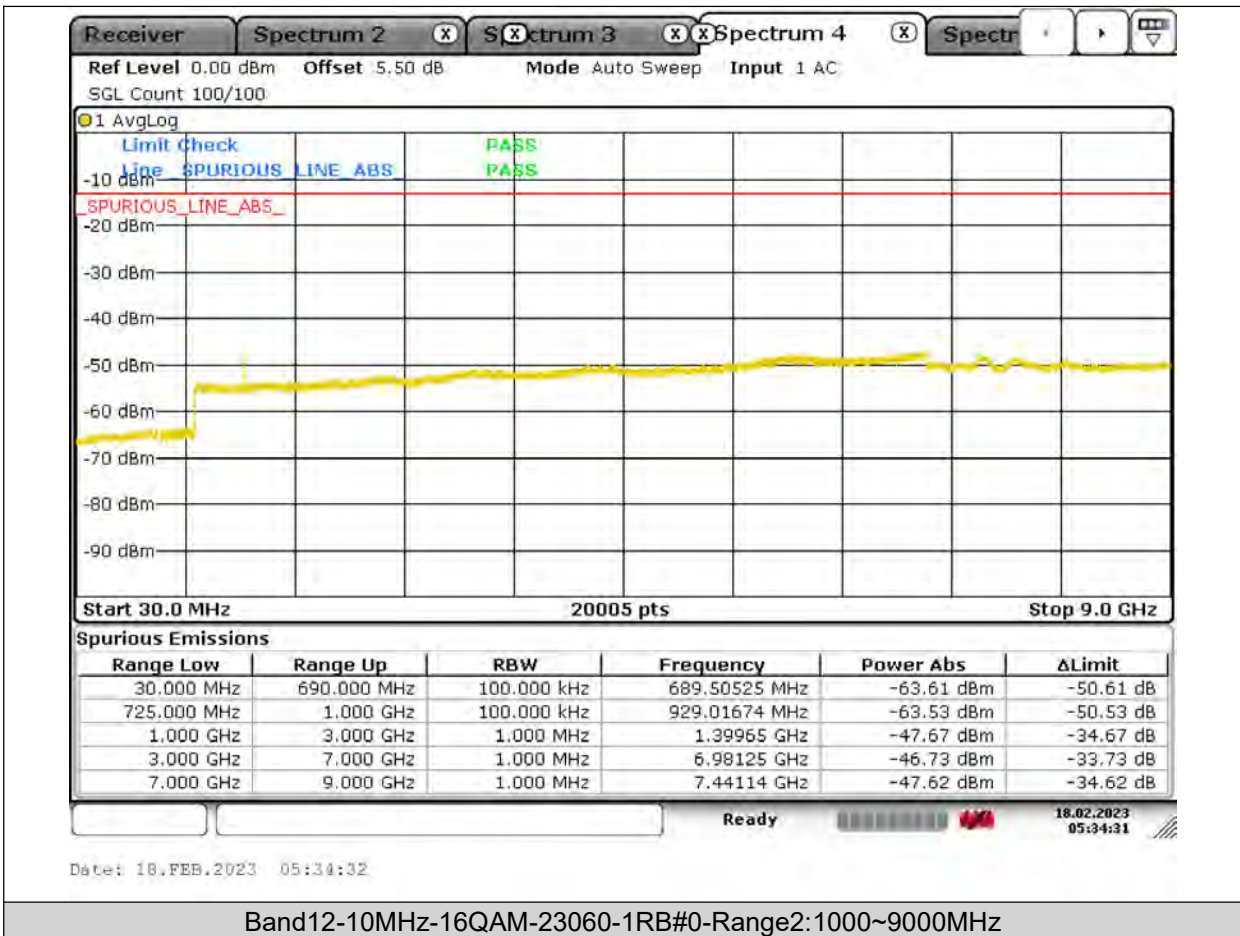
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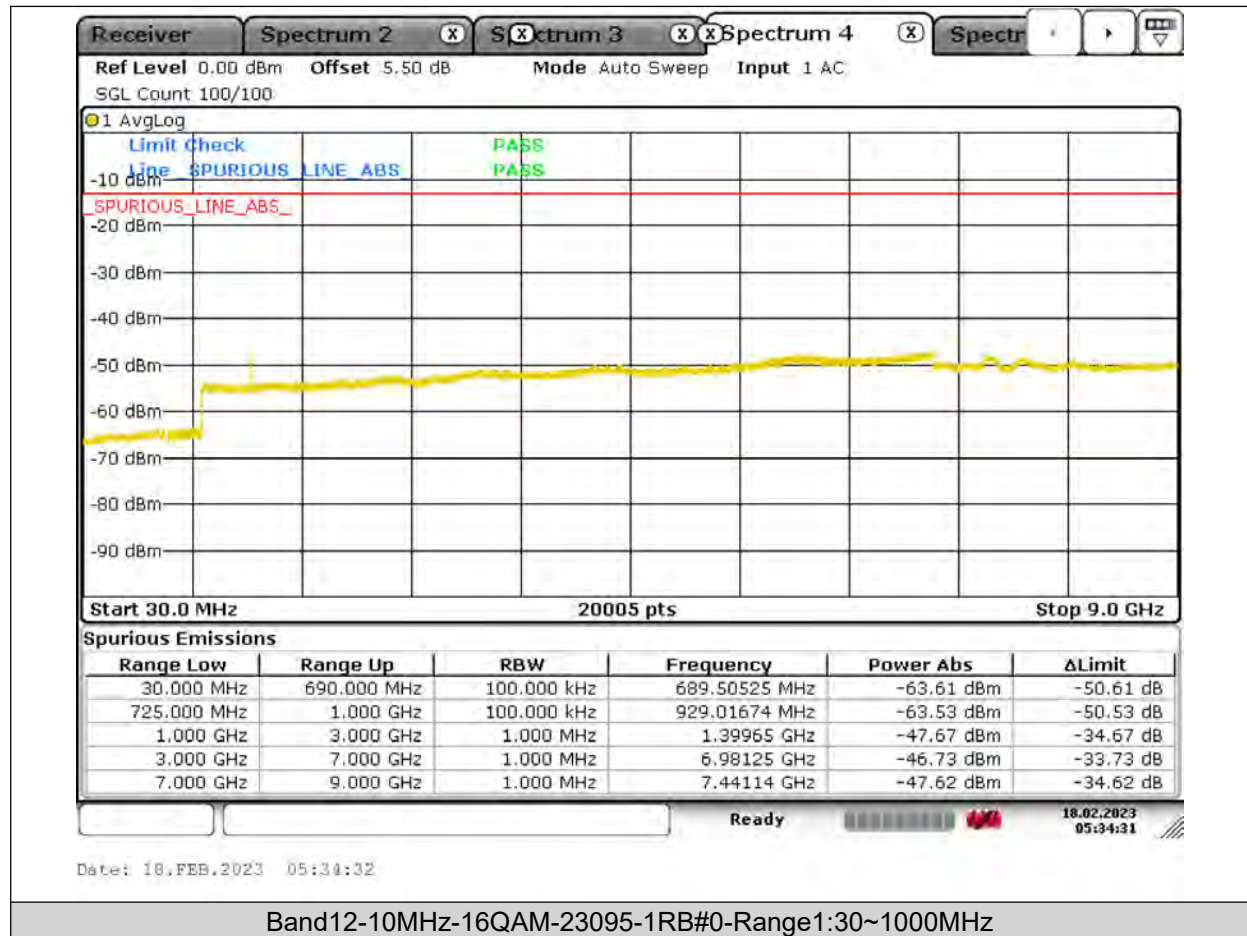
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BUREAU VERITAS

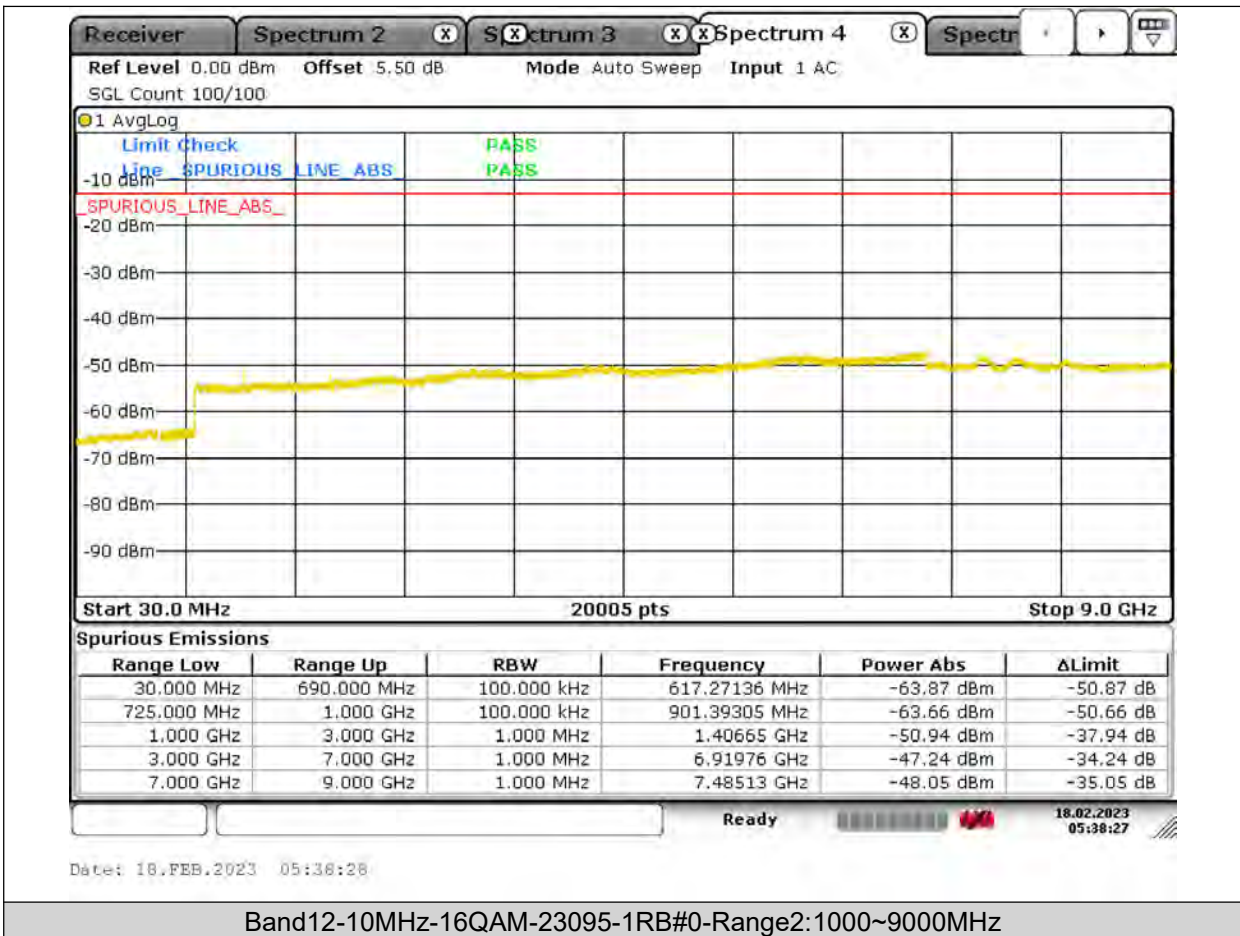
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BUREAU VERITAS

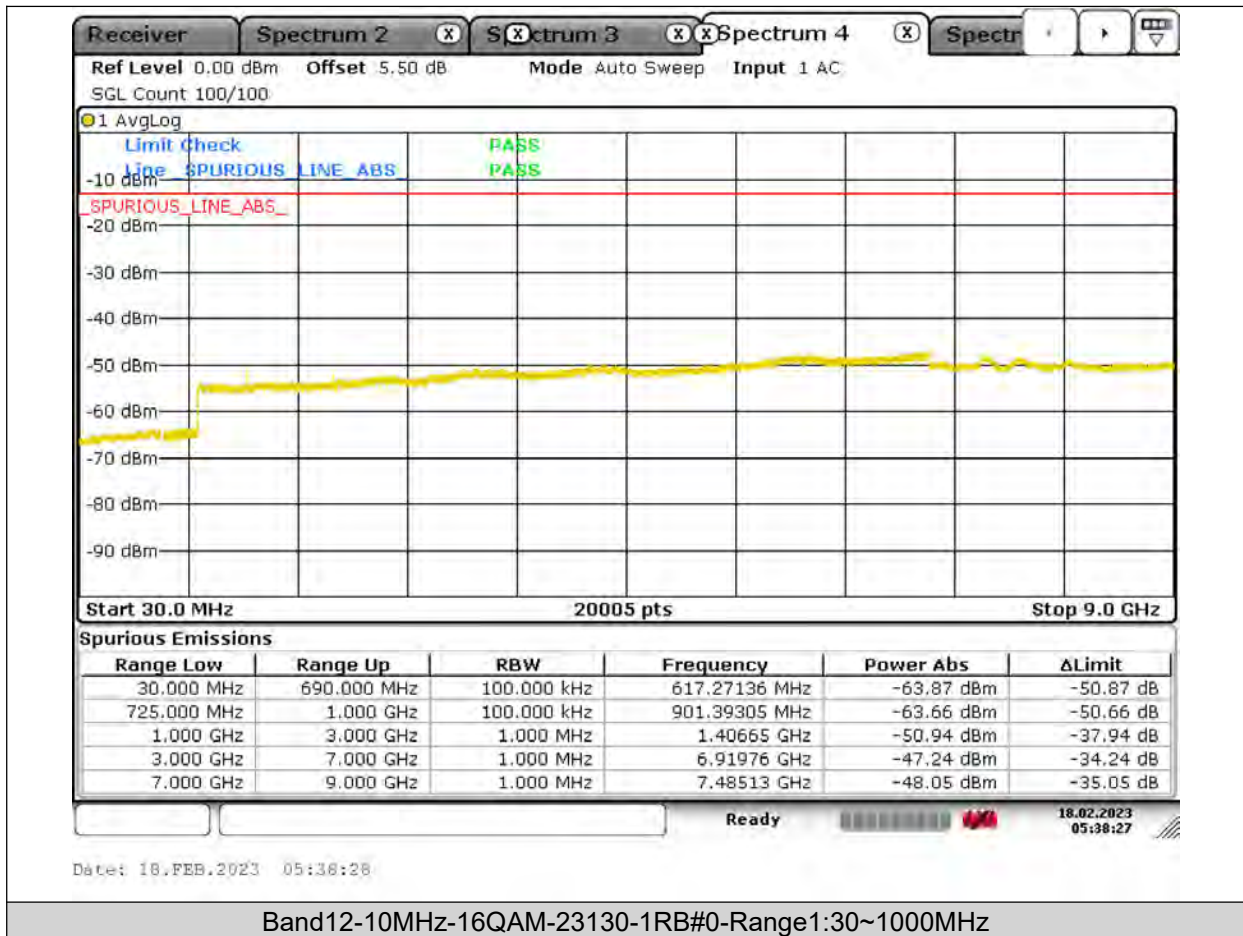
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VERITAS

Test Report No.: PSU-QSU2308280414RF03

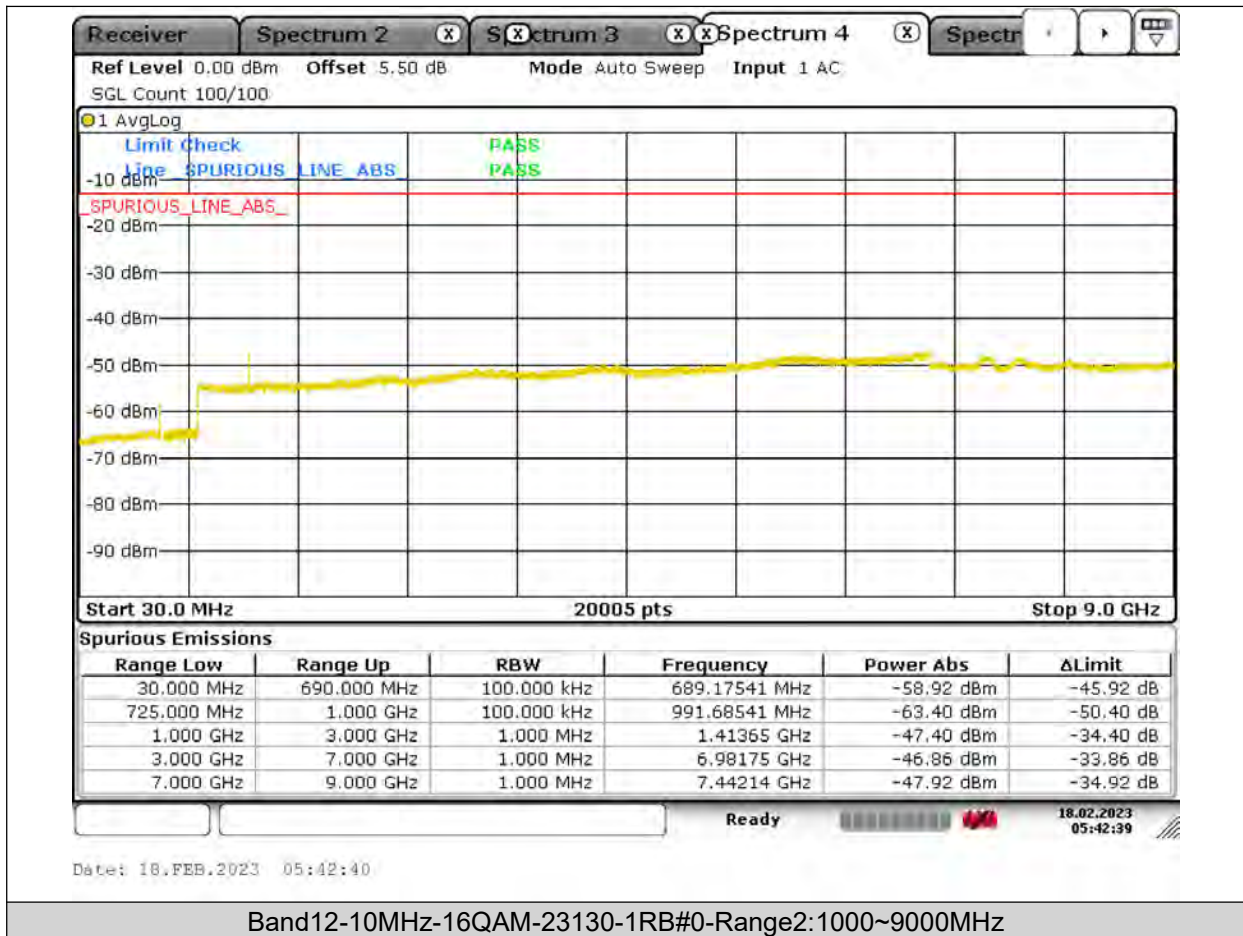






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VERITAS

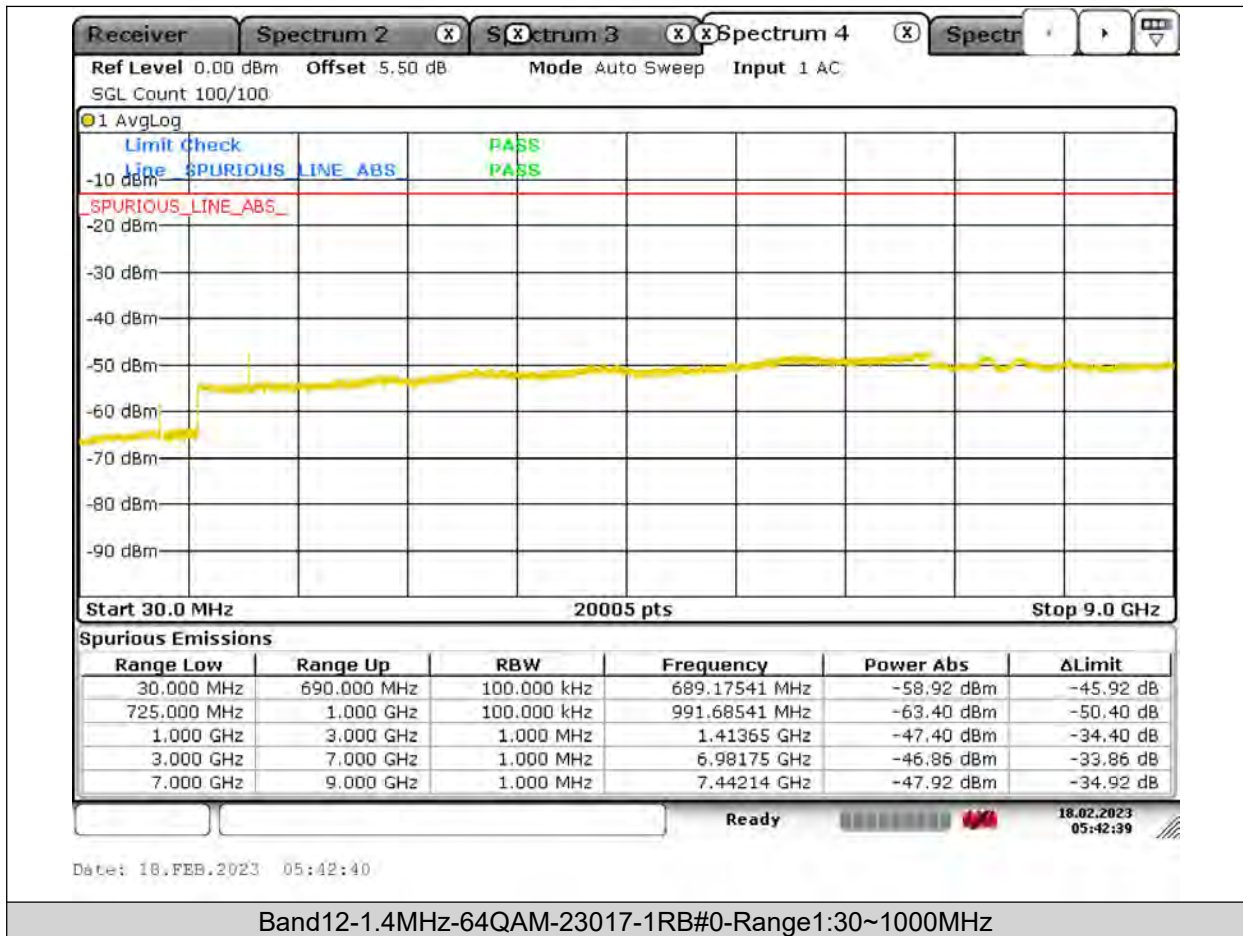
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

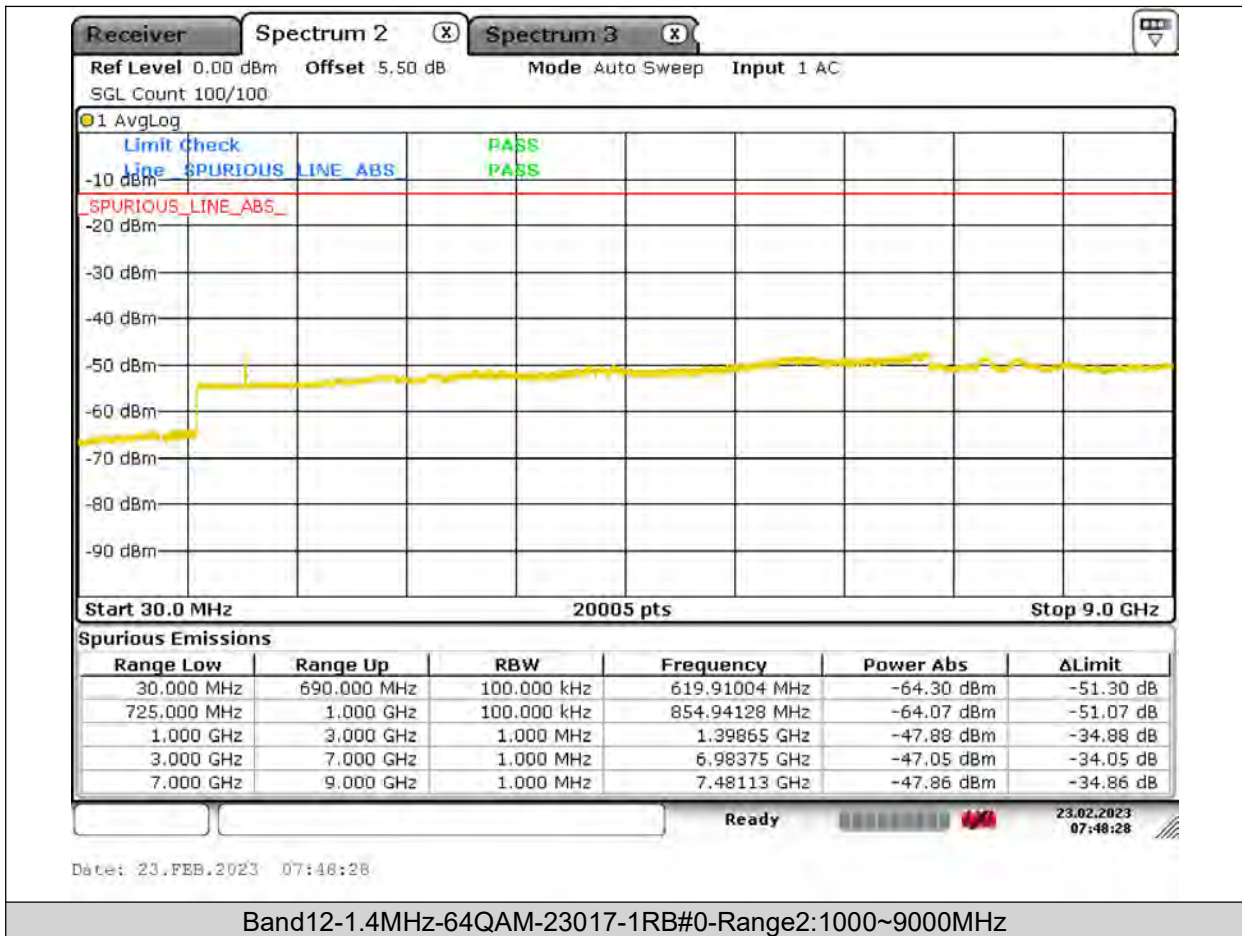
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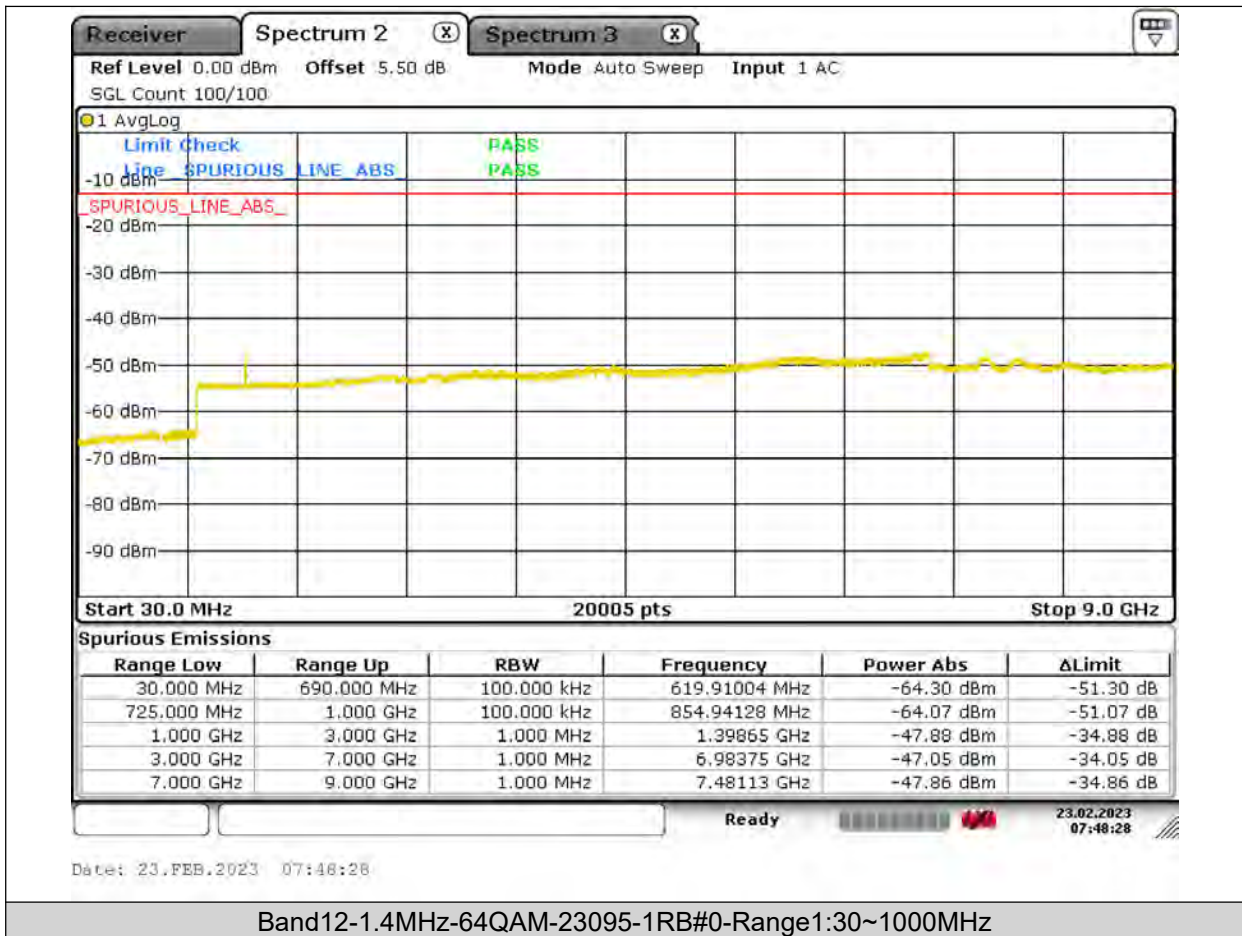
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VERITAS

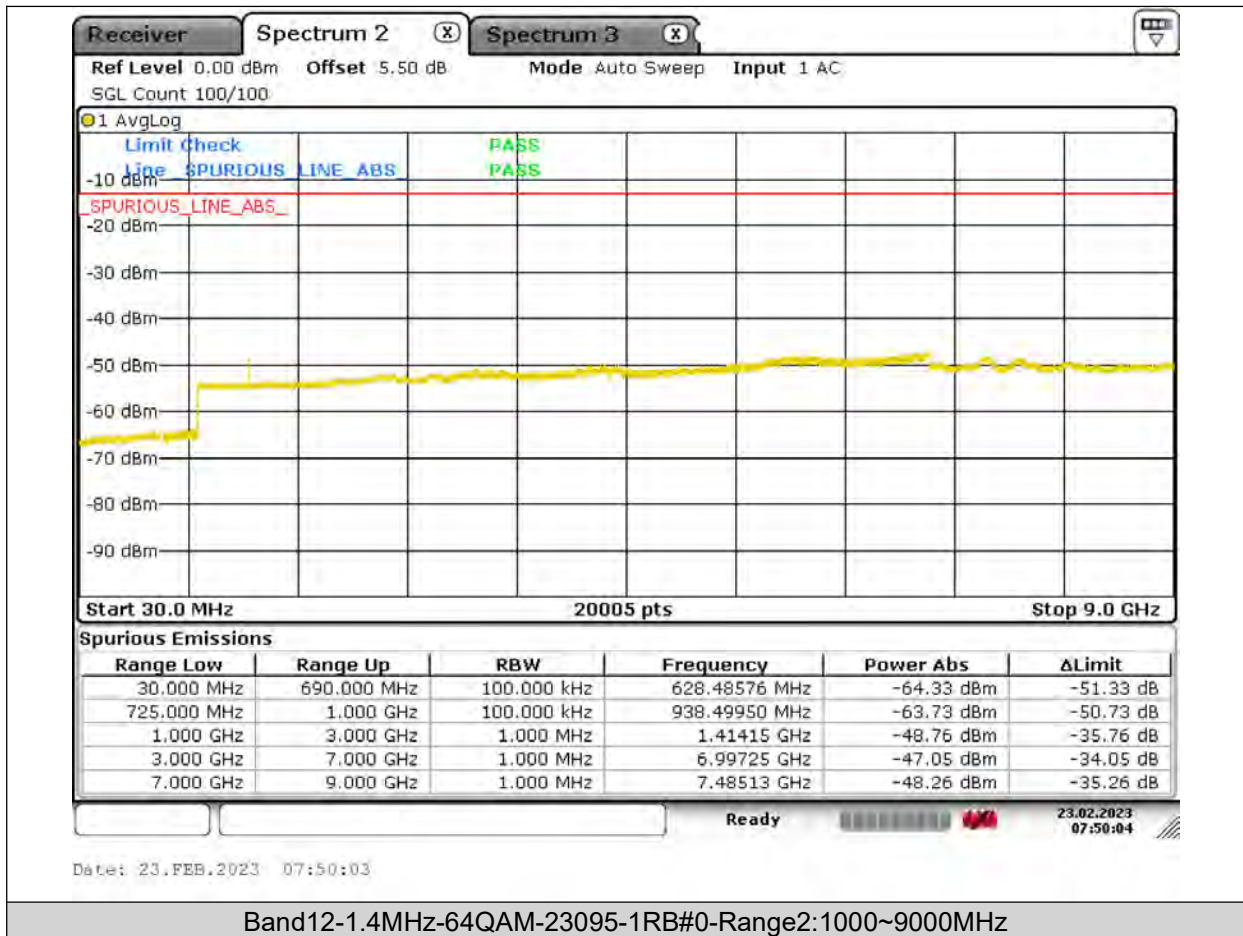
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VERITAS

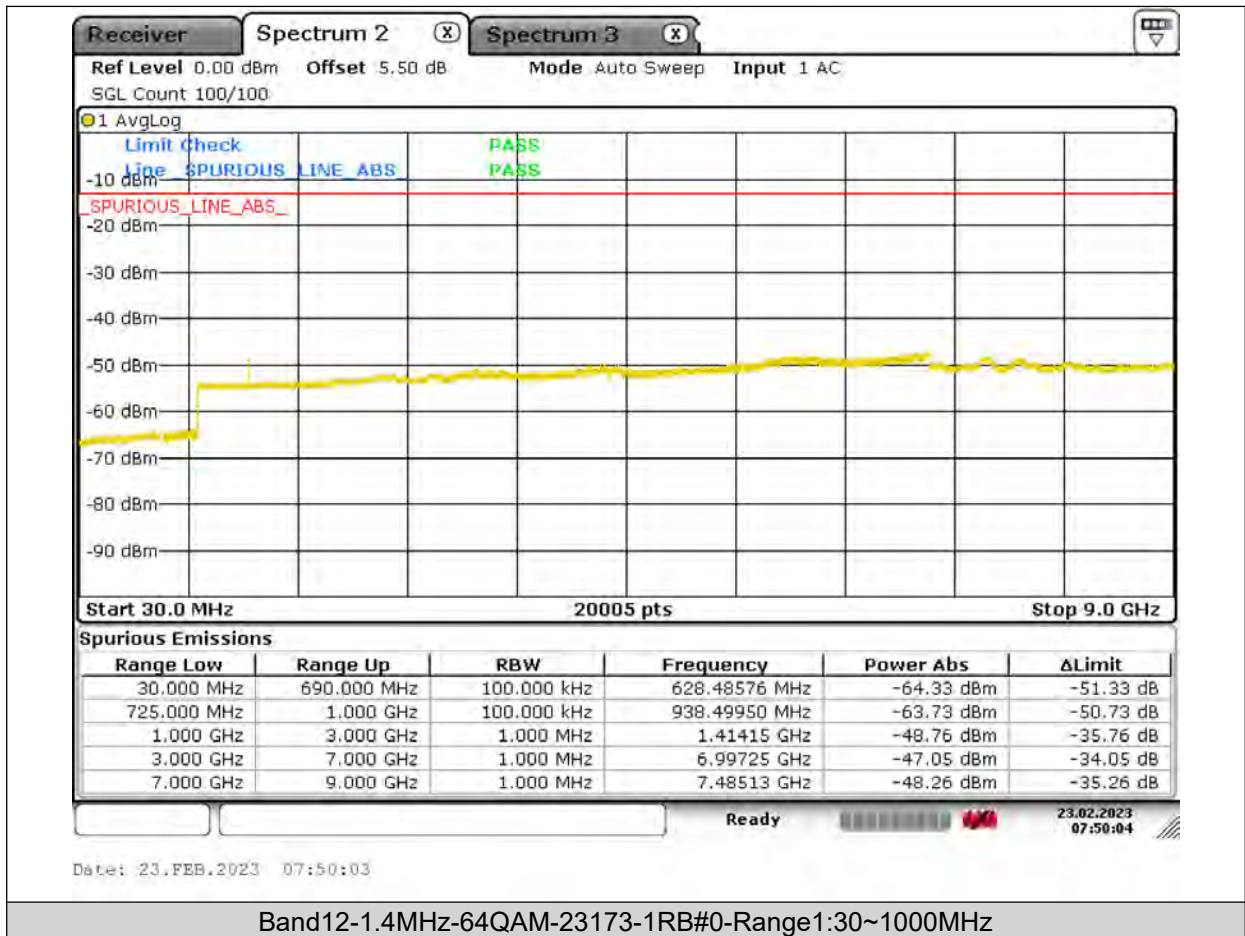
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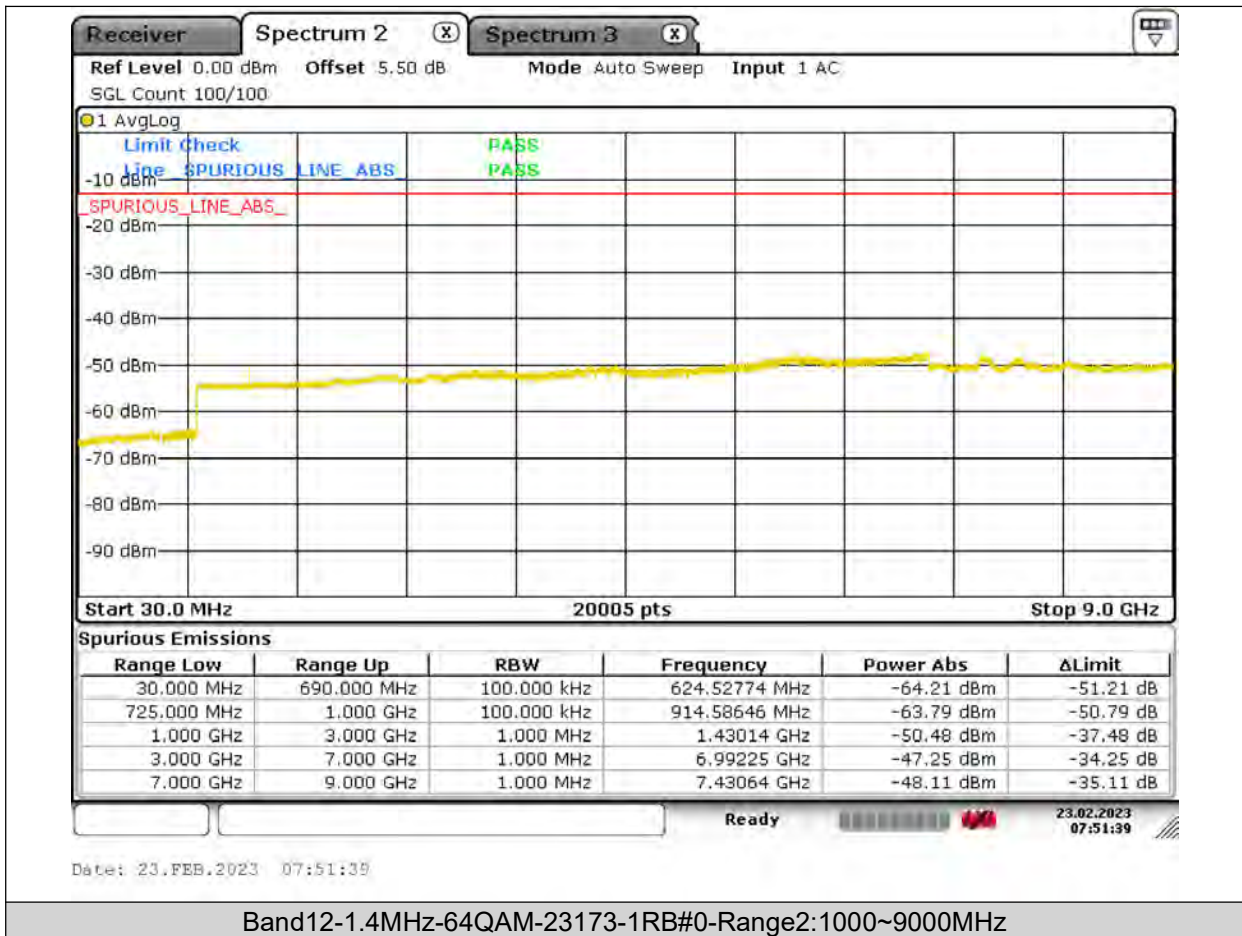
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VERITAS

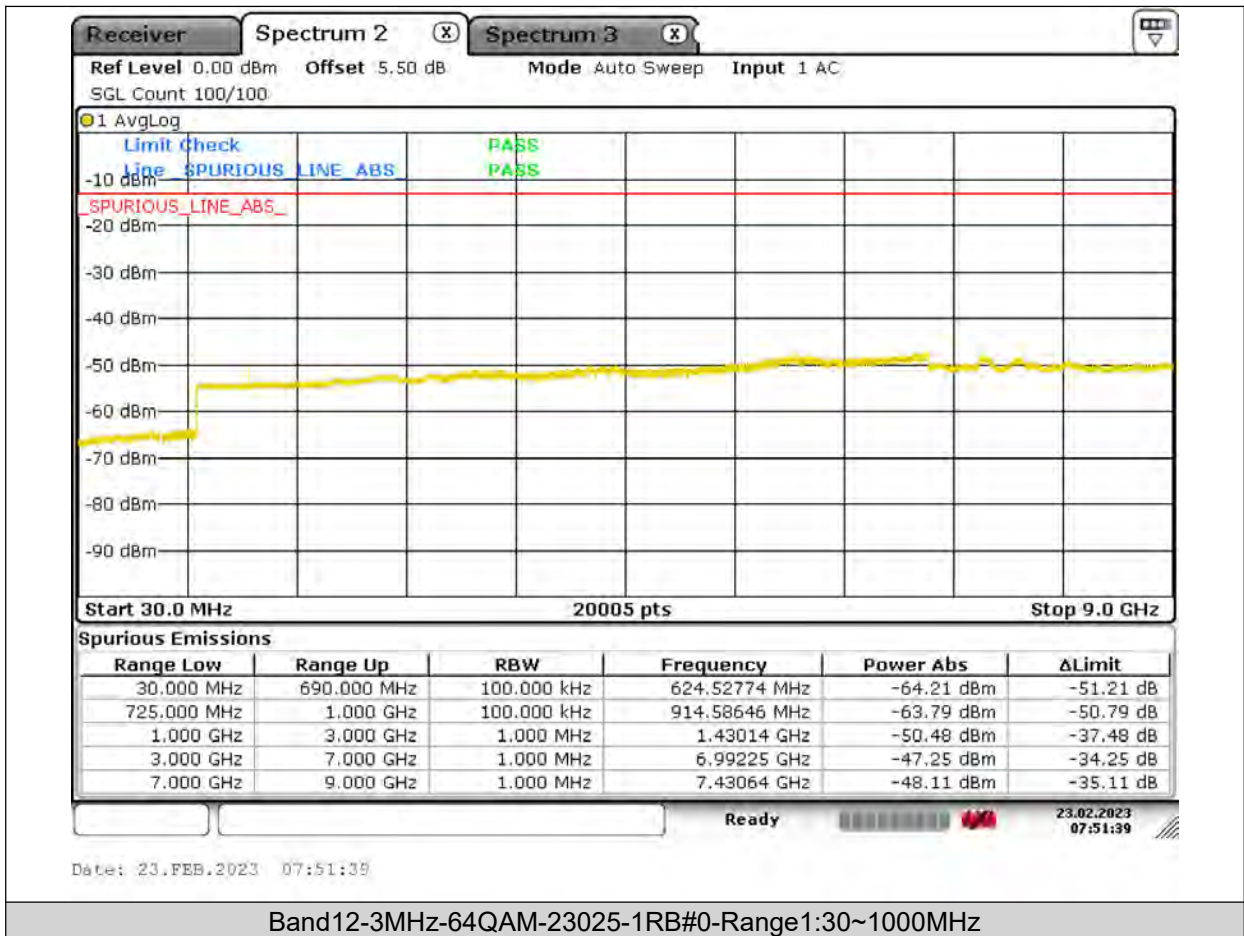
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VERITAS

Test Report No.: PSU-QSU2308280414RF03

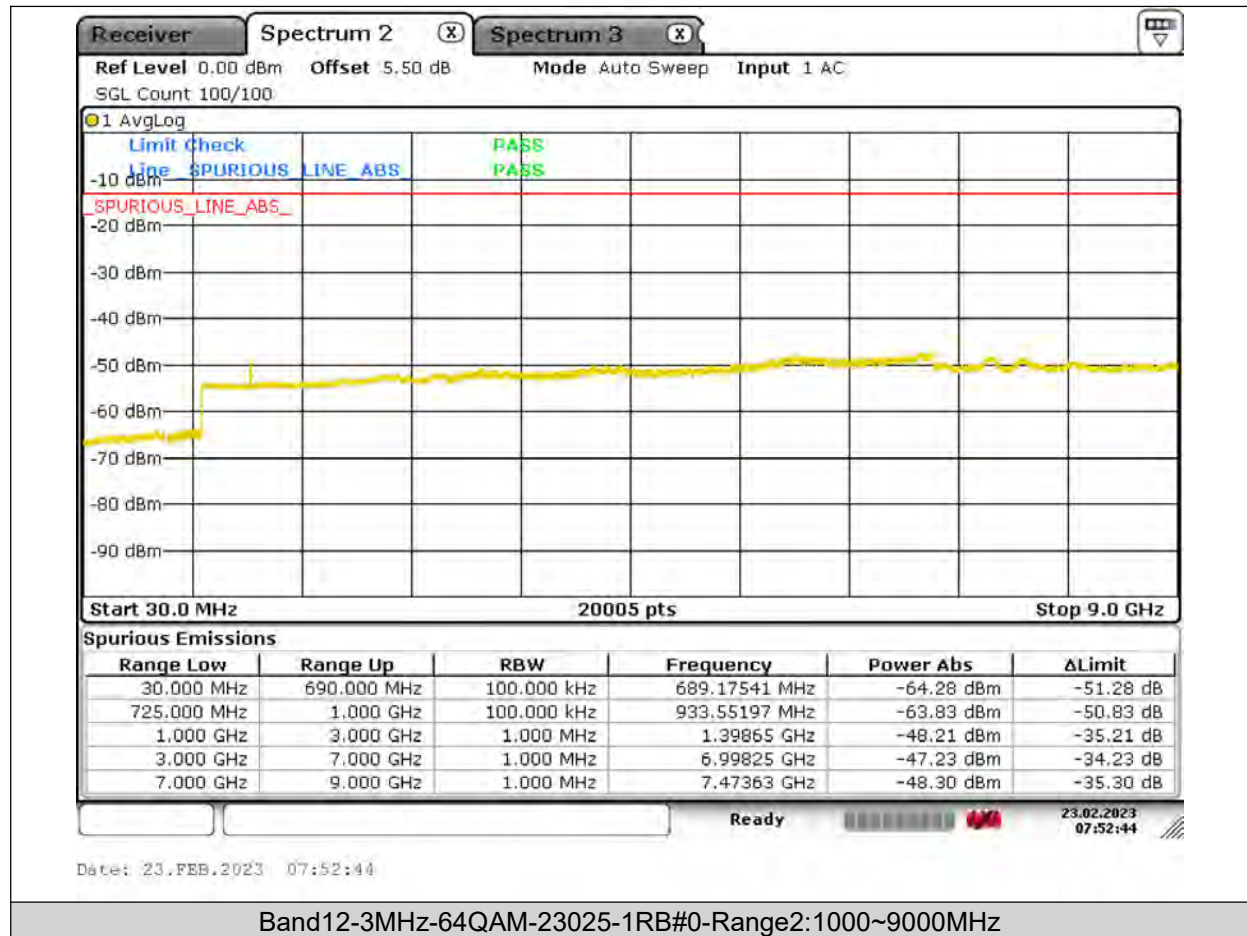






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VERITAS

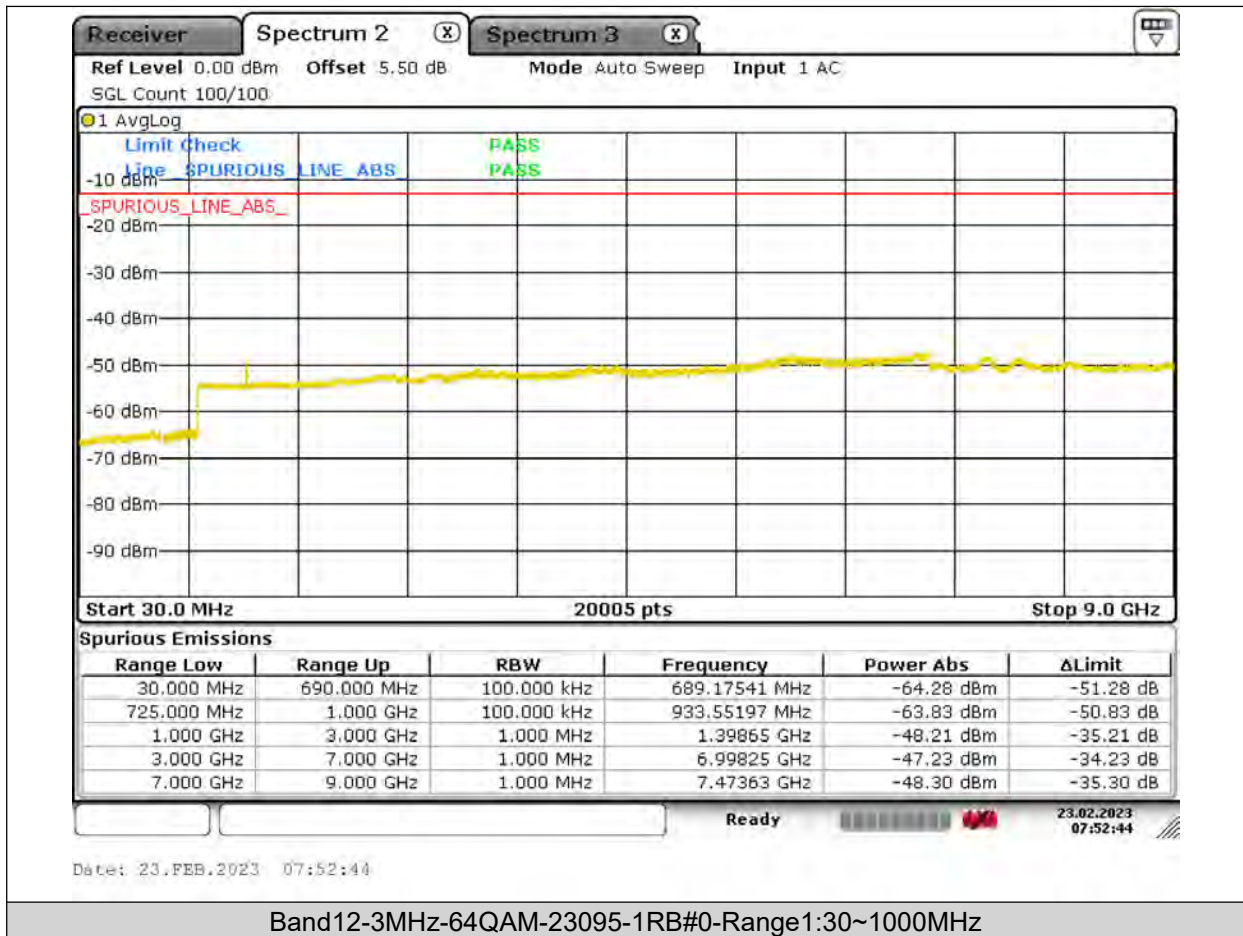
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VERITAS

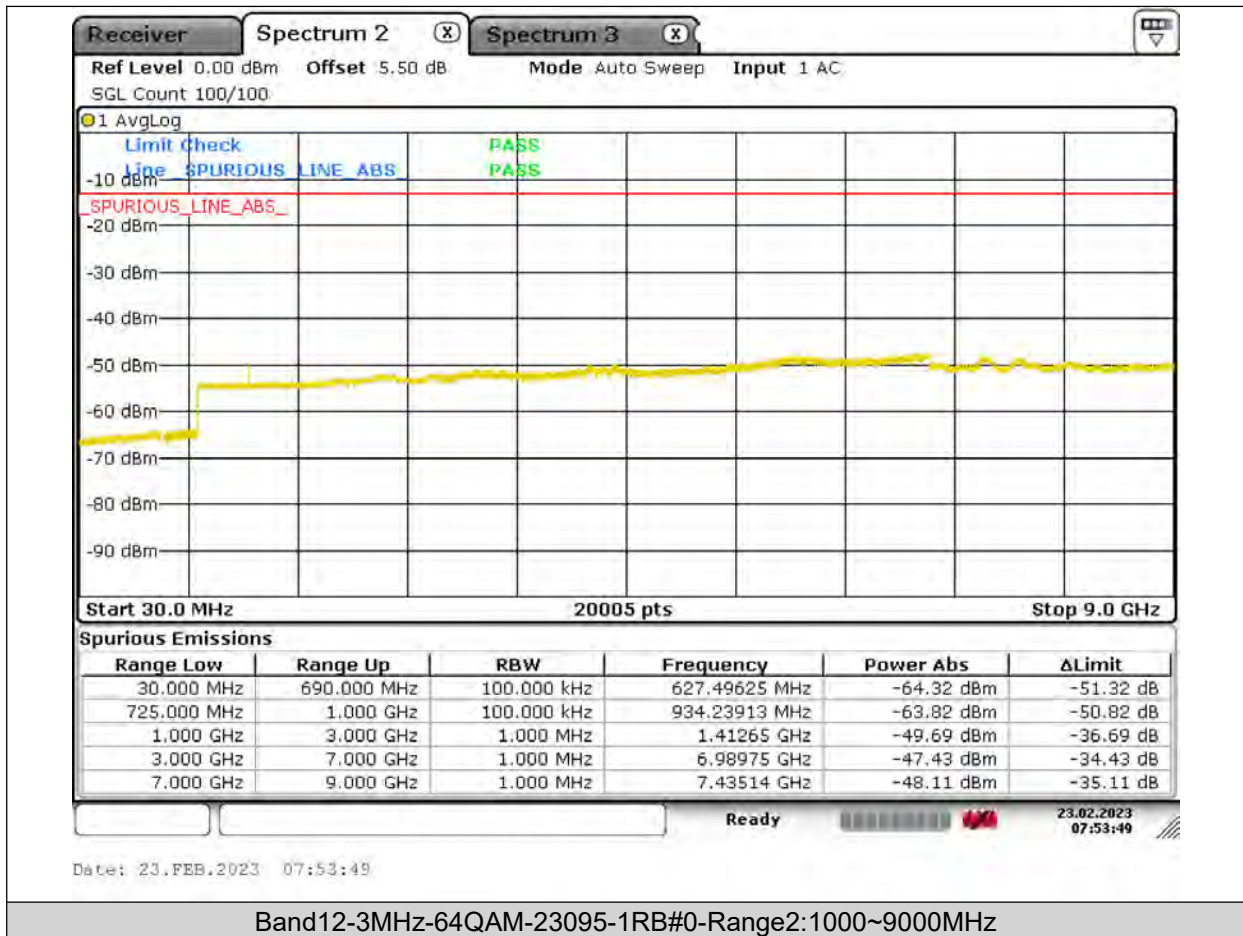
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VERITAS

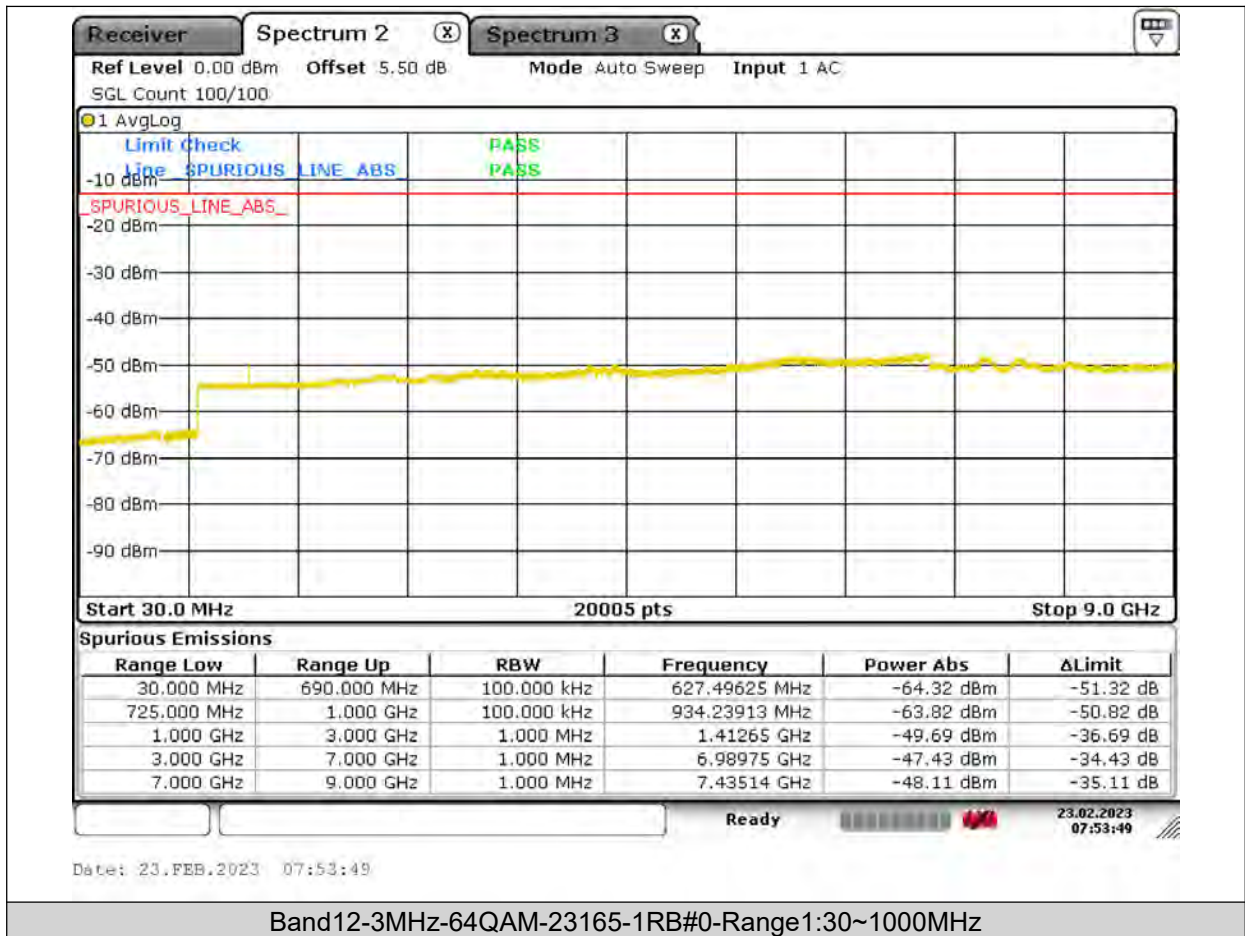
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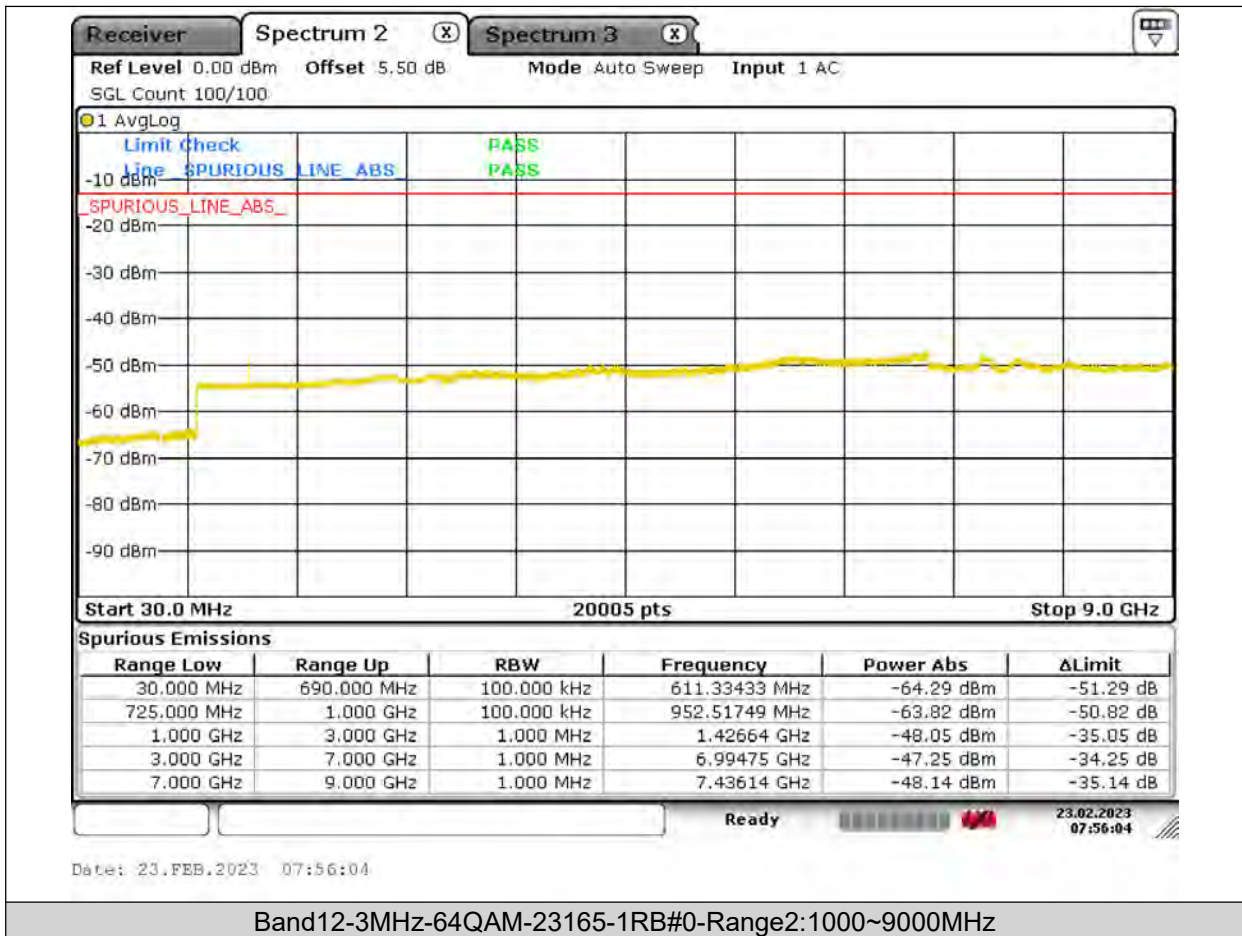
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VERITAS

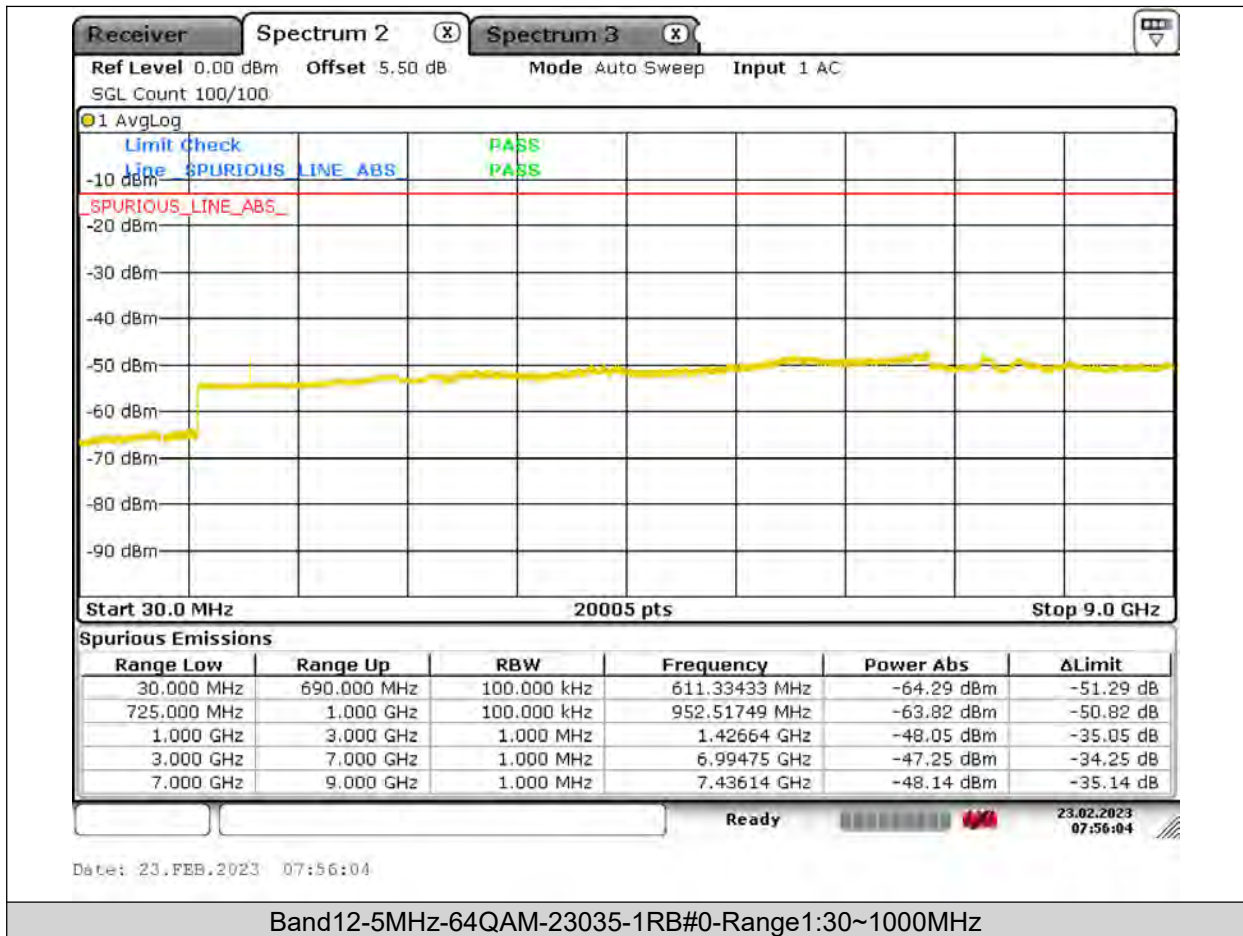
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VERITAS

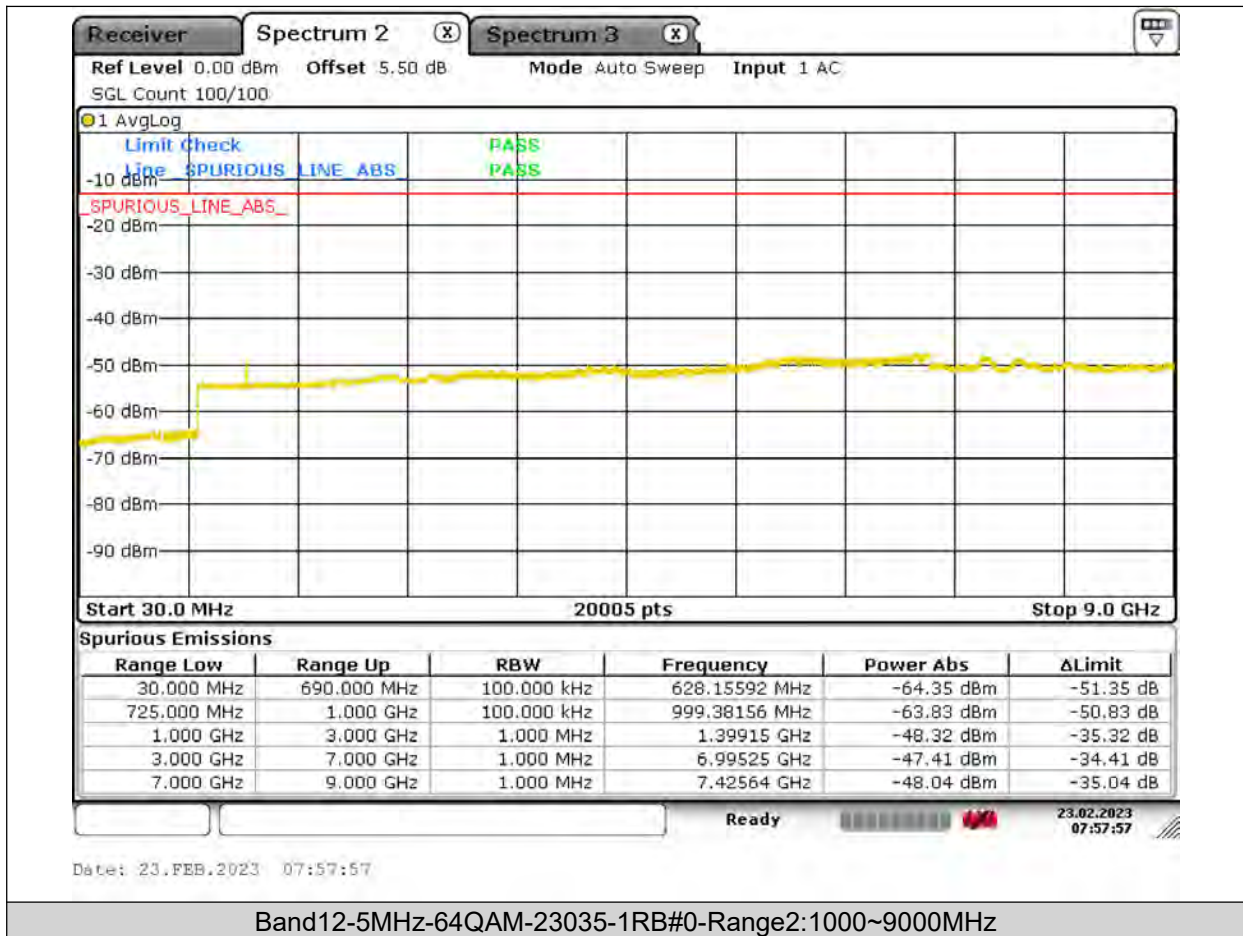
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VERITAS

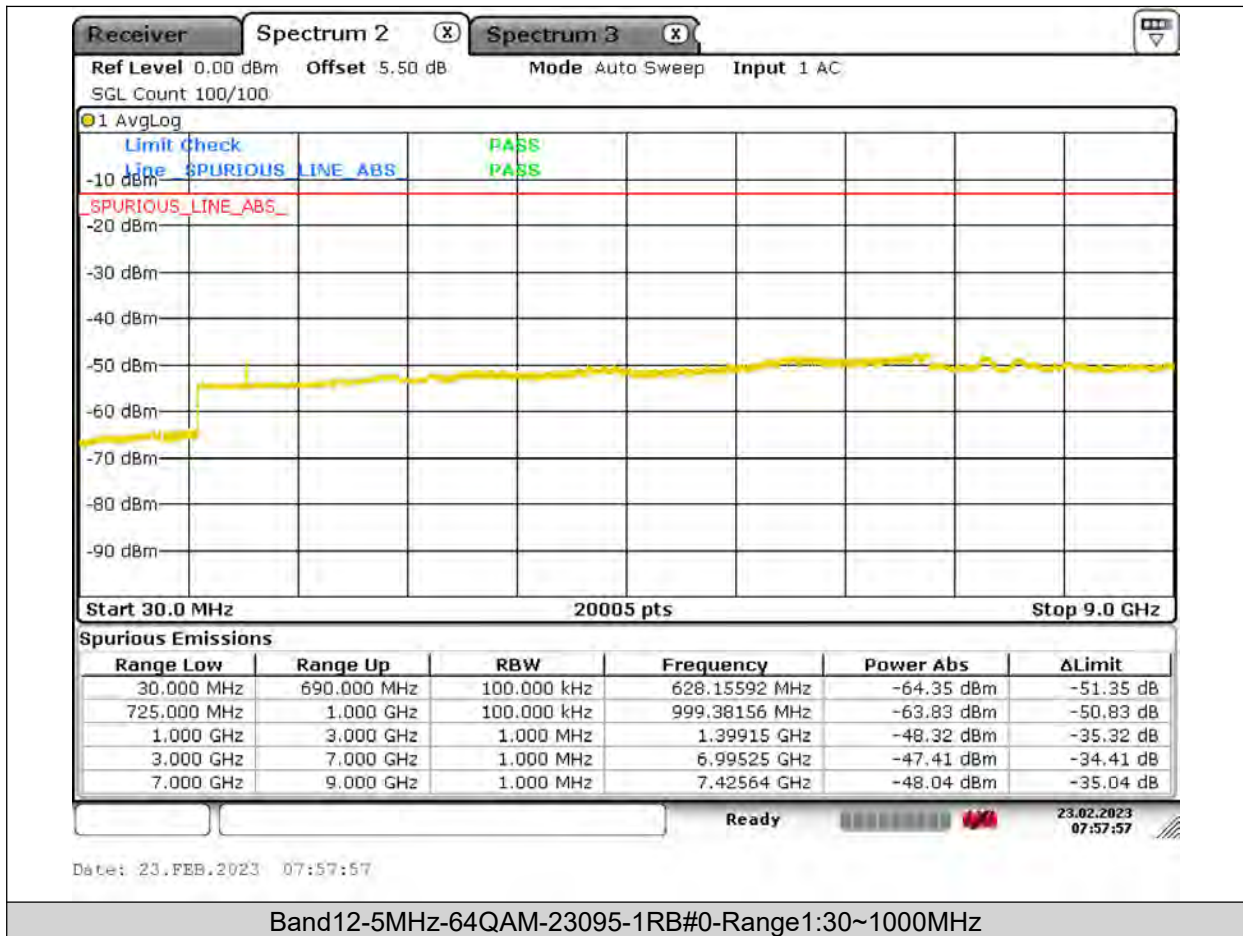
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VERITAS

Test Report No.: PSU-QSU2308280414RF03

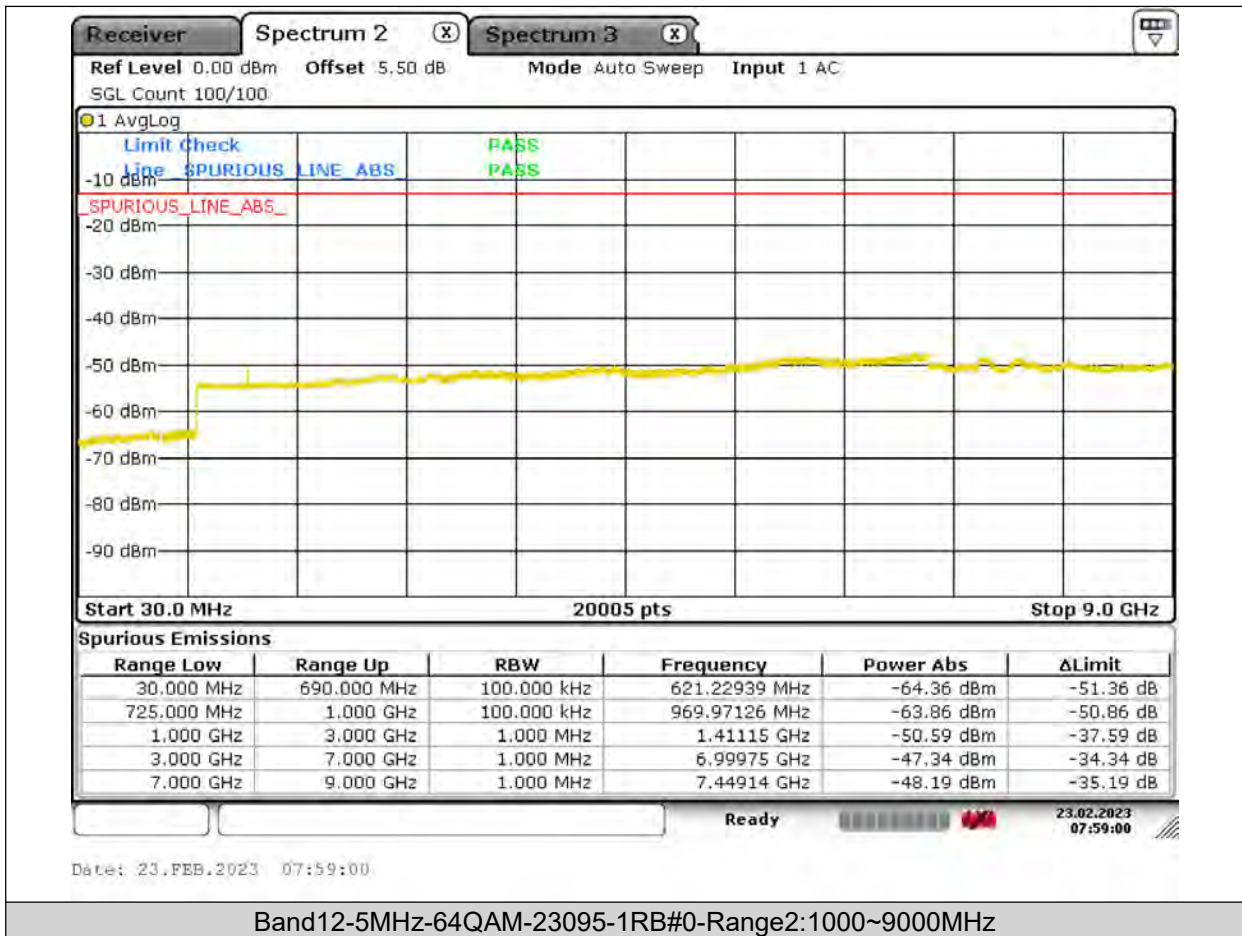






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VERITAS

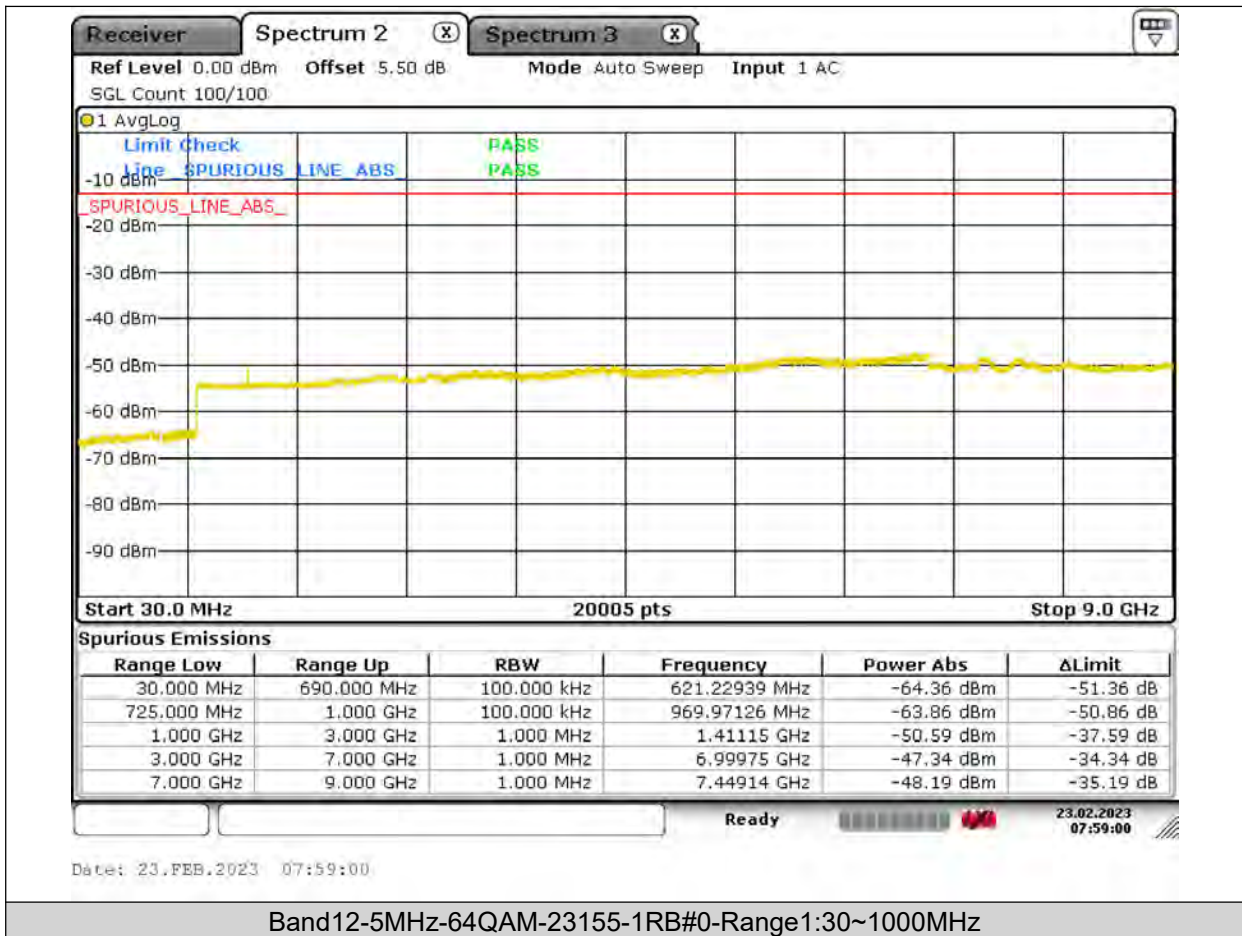
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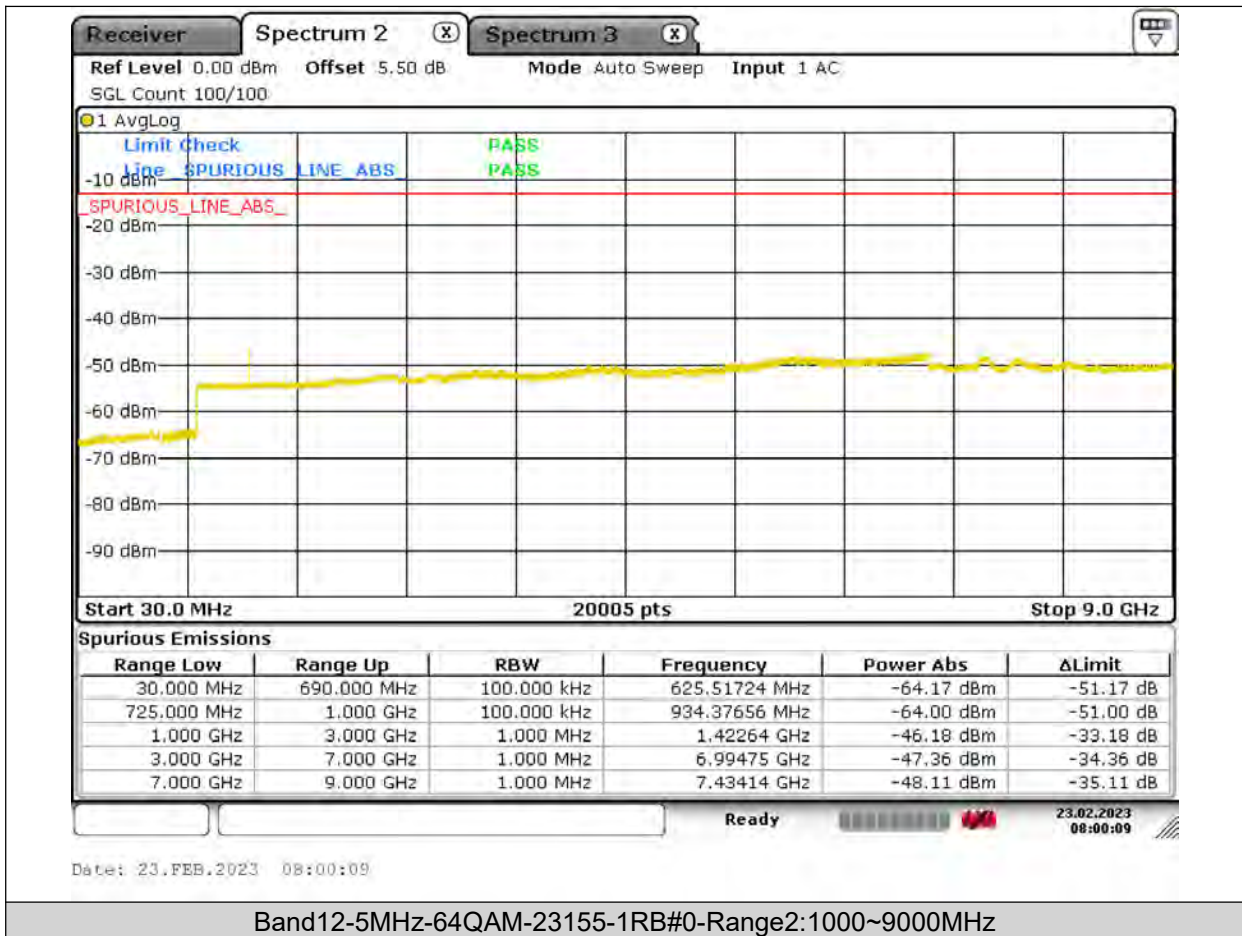
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VERITAS

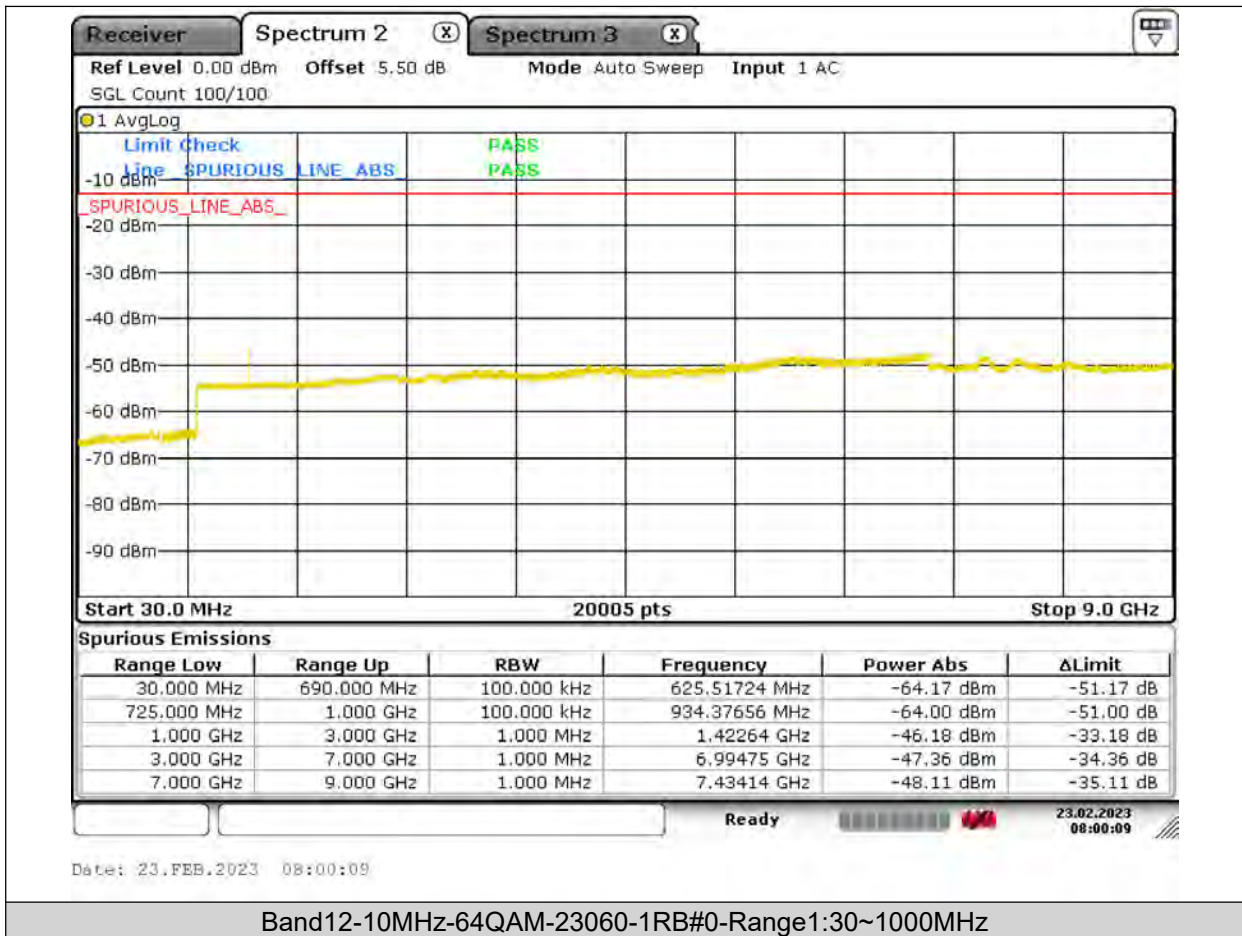
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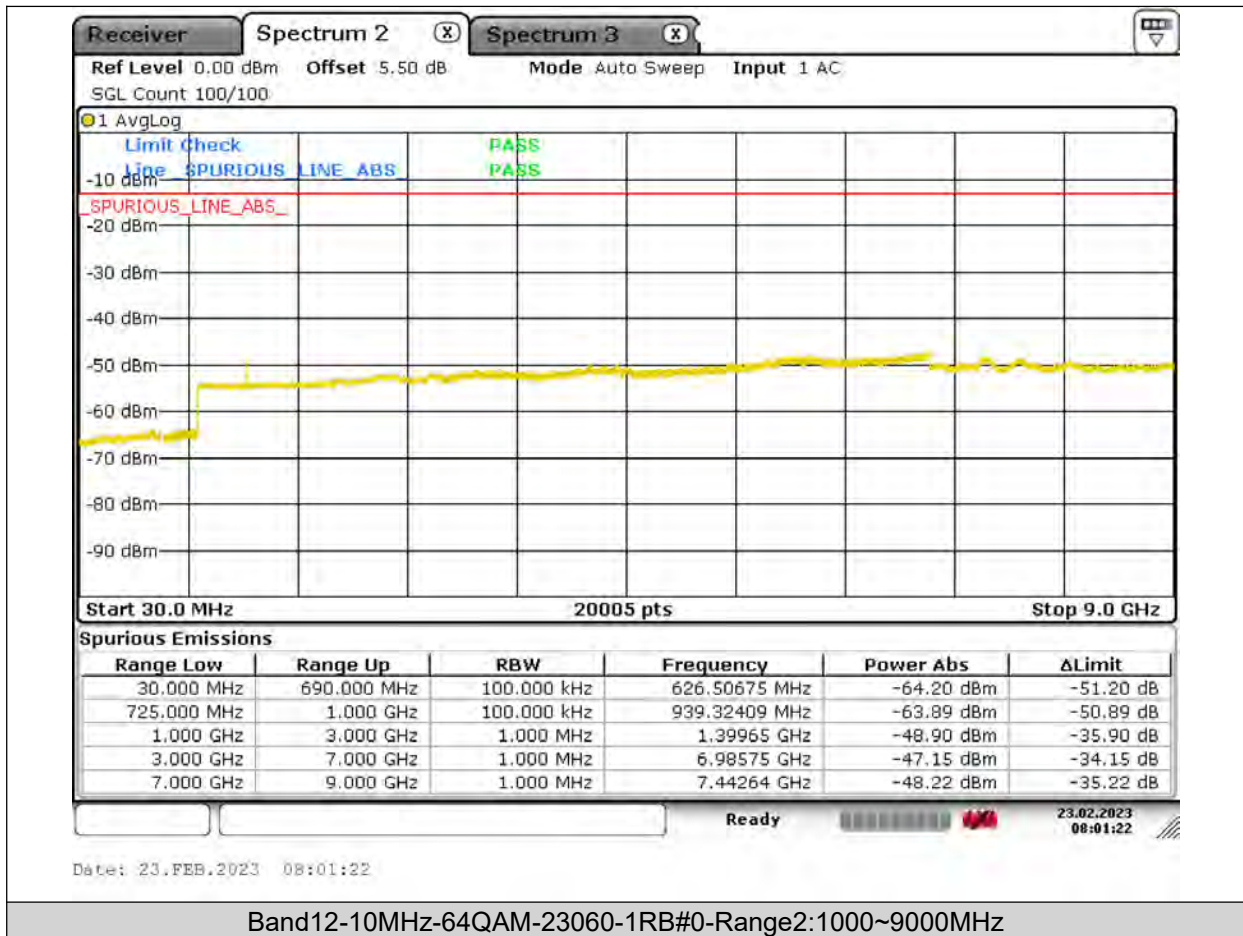
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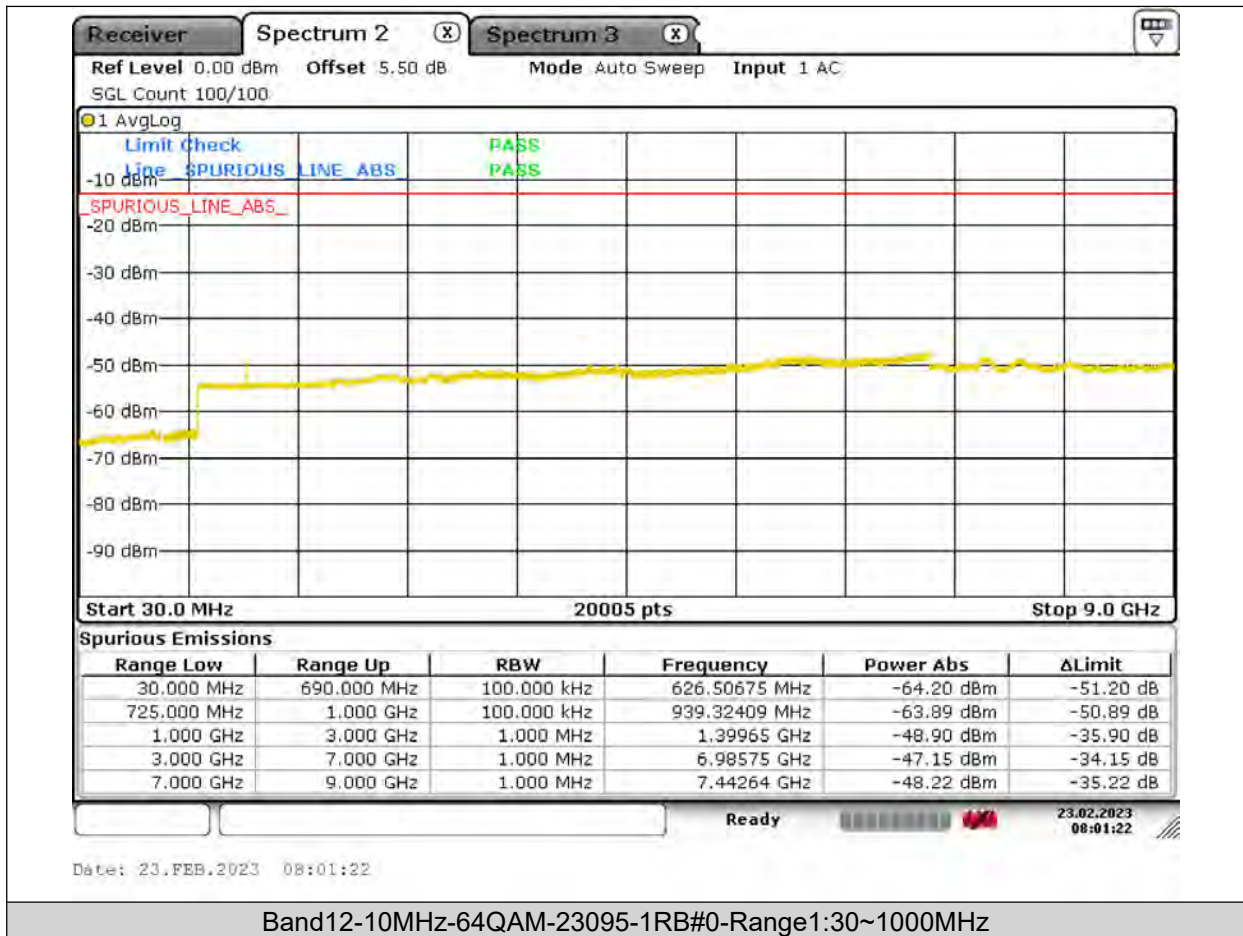
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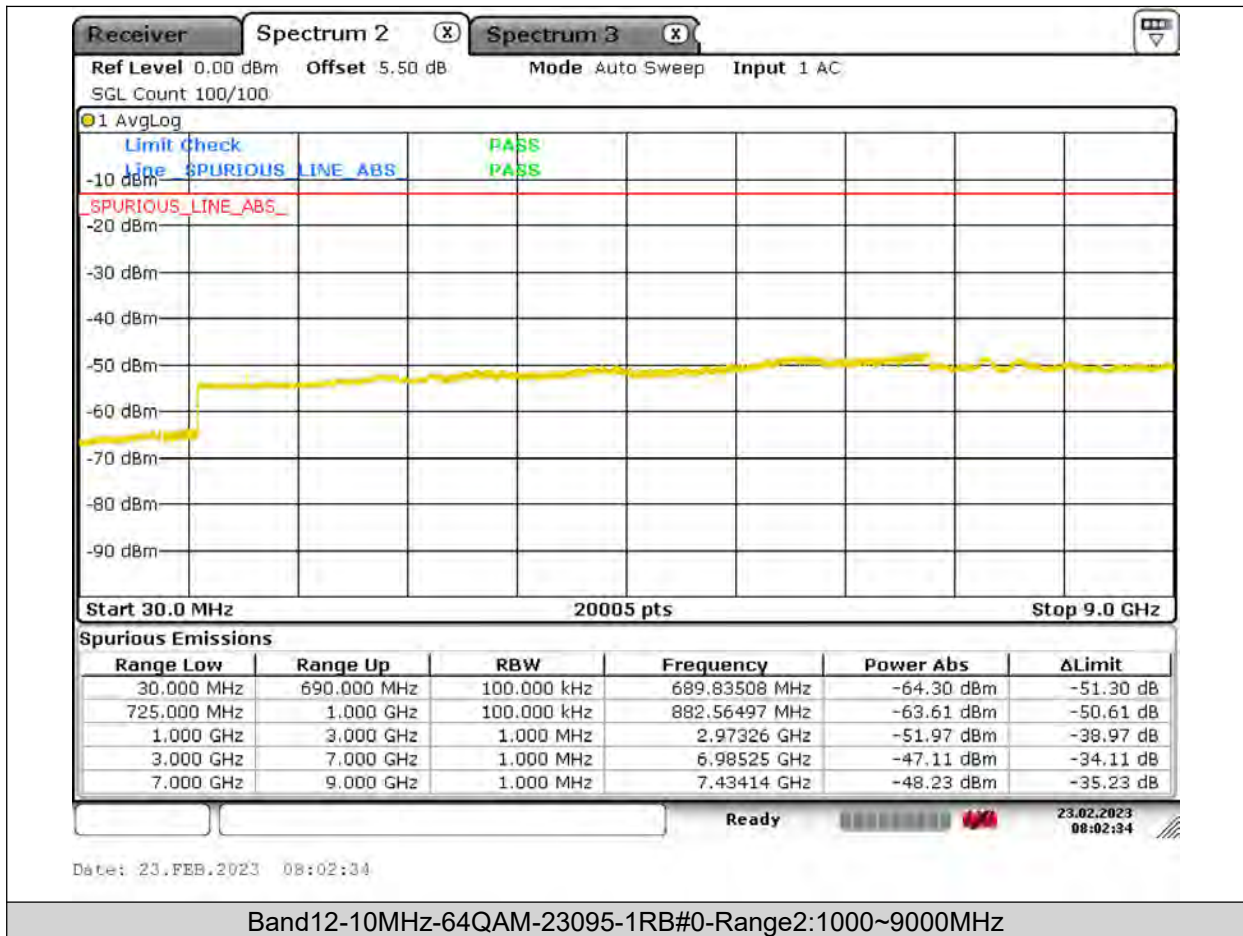
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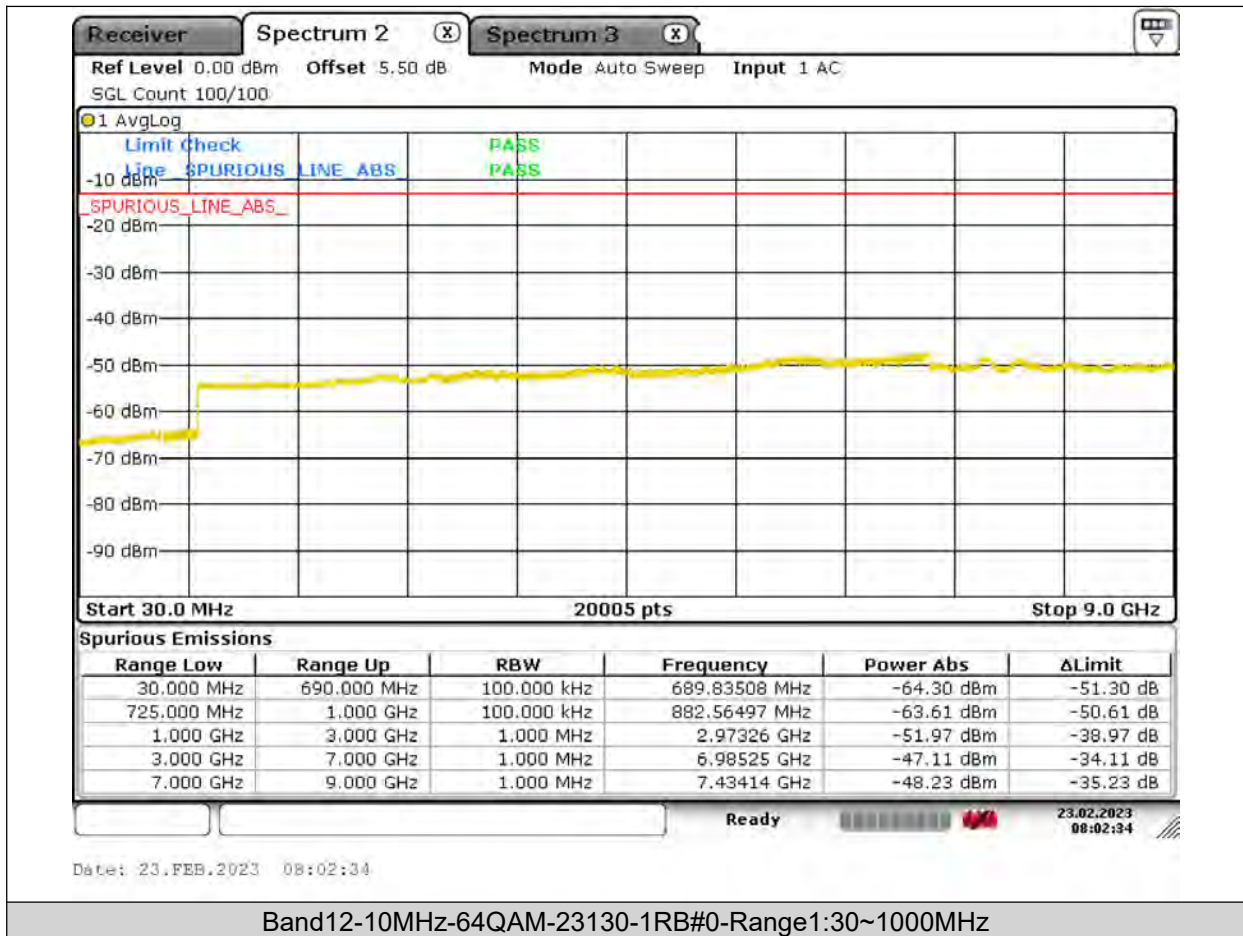
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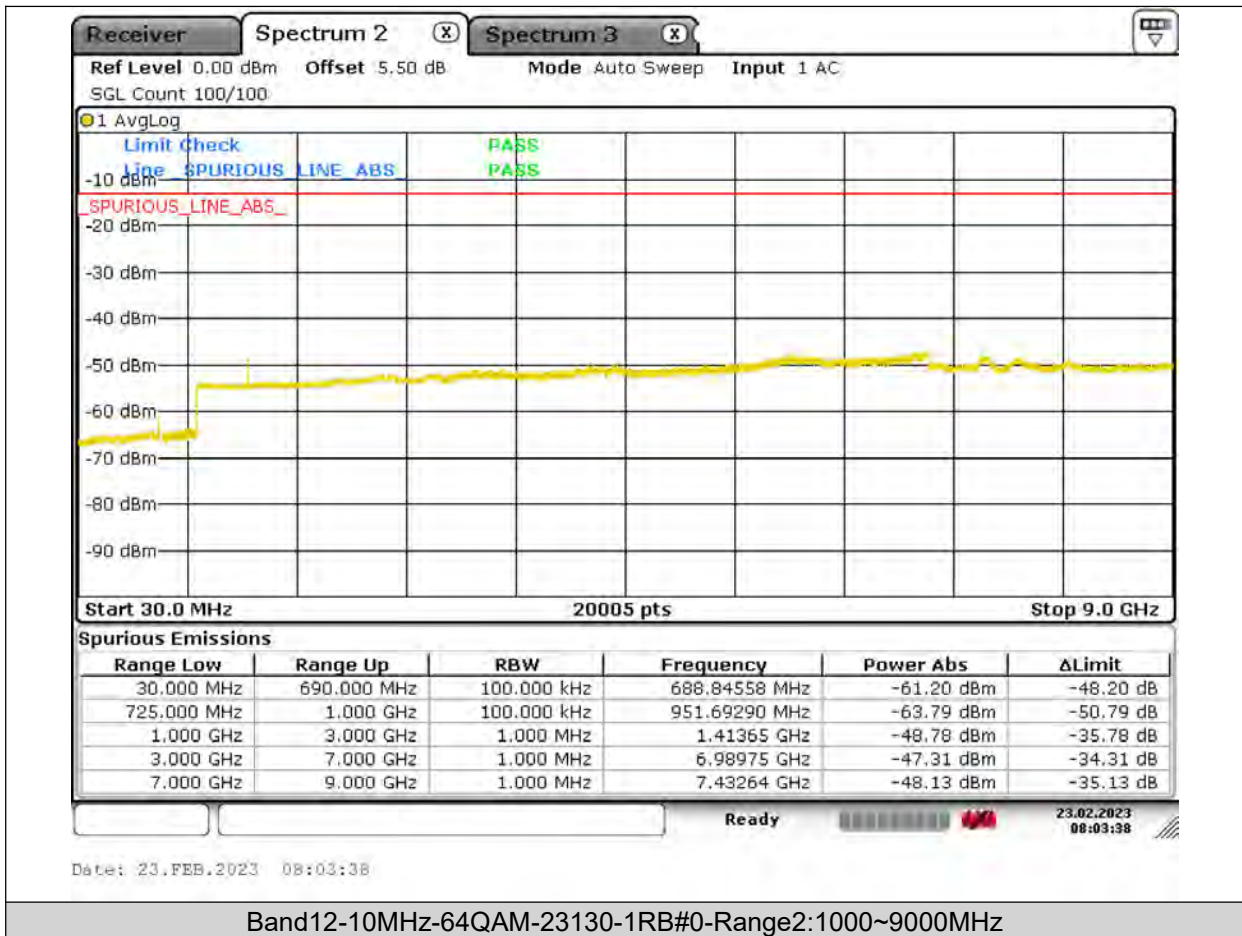






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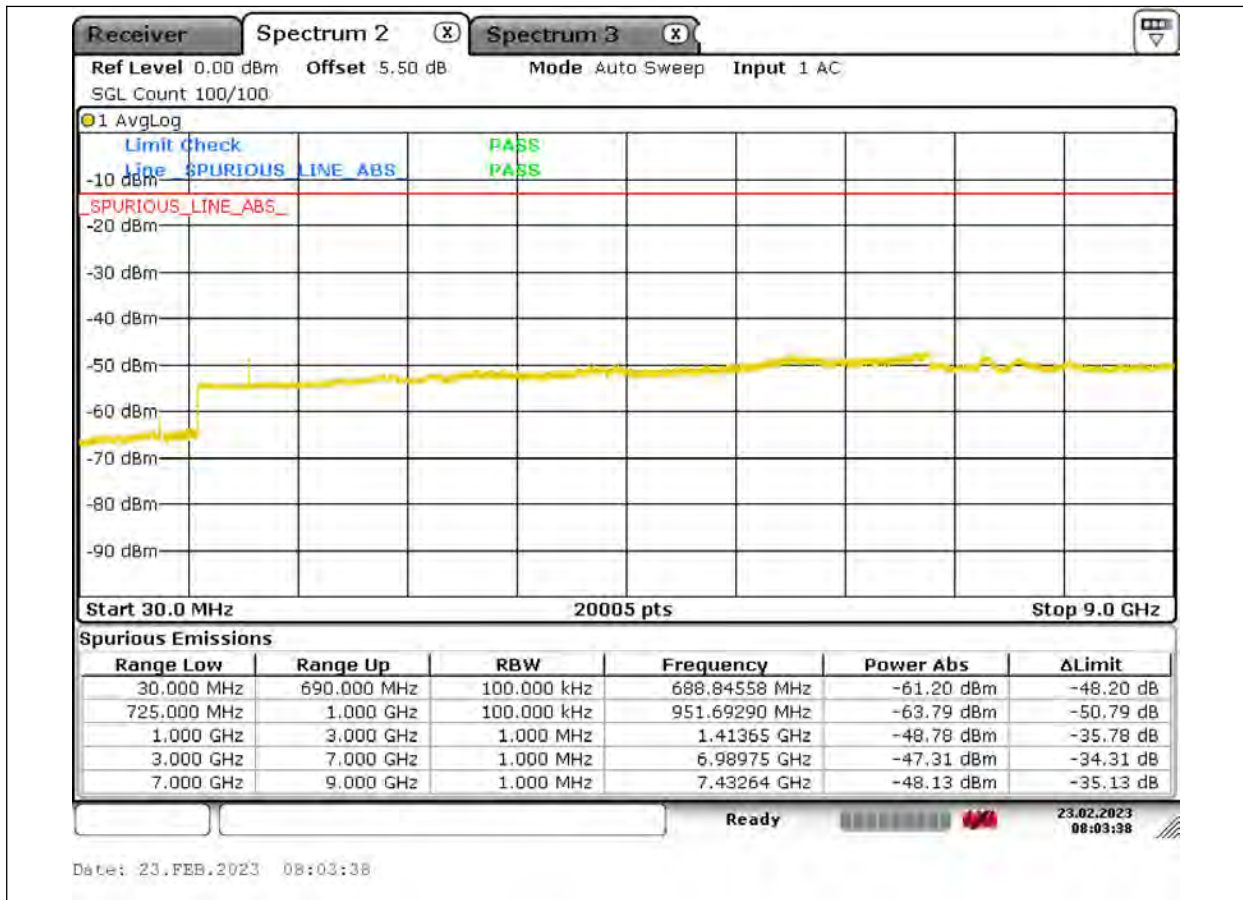
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03





Test Report No.: PSU-QSU2308280414RF03

## FREQUENCY STABILITY

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	5.4	0.007670	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	14.4	0.020455	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-4.1	-0.005824	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-12.9	-0.018233	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	5.7	0.008057	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-13.1	-0.018516	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-4.4	-0.006188	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-9.4	-0.013221	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-0.7	-0.000985	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-13.5	-0.019176	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	6.8	0.009659	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	14.1	0.020028	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-2.1	-0.002968	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	9.3	0.013145	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-8.3	-0.011731	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-9.2	-0.012940	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-11.7	-0.016456	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-14.3	-0.020113	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VL	NT	5.4	0.007670	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VN	NT	14.4	0.020455	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VH	NT	-4.1	-0.005824	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VL	NT	-12.9	-0.018233	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VN	NT	5.7	0.008057	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VH	NT	-13.1	-0.018516	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VL	NT	-4.4	-0.006188	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VN	NT	-9.4	-0.013221	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VH	NT	-0.7	-0.000985	±2.5	PASS



Test Report No.: PSU-QSU2308280414RF03

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	704	50RB#0	NV	-30	-5.9	-0.008381	±2.5	PASS
Band12	10MHz	QPSK	704	50RB#0	NV	-20	17.3	0.024574	±2.5	PASS
Band12	10MHz	QPSK	704	50RB#0	NV	0	-20.8	-0.029545	±2.5	PASS
Band12	10MHz	QPSK	704	50RB#0	NV	10	-19.7	-0.027983	±2.5	PASS
Band12	10MHz	QPSK	704	50RB#0	NV	20	6.8	0.009659	±2.5	PASS
Band12	10MHz	QPSK	704	50RB#0	NV	30	-6.6	-0.009375	±2.5	PASS
Band12	10MHz	QPSK	704	50RB#0	NV	40	-17.4	-0.024716	±2.5	PASS
Band12	10MHz	QPSK	704	50RB#0	NV	50	20.9	0.029688	±2.5	PASS
Band12	10MHz	QPSK	707.5	50RB#0	NV	-30	-4.9	-0.006926	±2.5	PASS
Band12	10MHz	QPSK	707.5	50RB#0	NV	-20	-8.4	-0.011873	±2.5	PASS
Band12	10MHz	QPSK	707.5	50RB#0	NV	0	-11	-0.015548	±2.5	PASS
Band12	10MHz	QPSK	707.5	50RB#0	NV	10	9.1	0.012862	±2.5	PASS
Band12	10MHz	QPSK	707.5	50RB#0	NV	20	-15.2	-0.021484	±2.5	PASS
Band12	10MHz	QPSK	707.5	50RB#0	NV	30	-0.7	-0.000989	±2.5	PASS
Band12	10MHz	QPSK	707.5	50RB#0	NV	40	23	0.032509	±2.5	PASS
Band12	10MHz	QPSK	707.5	50RB#0	NV	50	-12.3	-0.017385	±2.5	PASS
Band12	10MHz	QPSK	711	50RB#0	NV	-30	-8.5	-0.011955	±2.5	PASS
Band12	10MHz	QPSK	711	50RB#0	NV	-20	-8.7	-0.012236	±2.5	PASS
Band12	10MHz	QPSK	711	50RB#0	NV	0	-3.2	-0.004501	±2.5	PASS
Band12	10MHz	QPSK	711	50RB#0	NV	10	14.2	0.019972	±2.5	PASS
Band12	10MHz	QPSK	711	50RB#0	NV	20	-15.4	-0.021660	±2.5	PASS
Band12	10MHz	QPSK	711	50RB#0	NV	30	12.7	0.017862	±2.5	PASS
Band12	10MHz	QPSK	711	50RB#0	NV	40	-19.5	-0.027426	±2.5	PASS
Band12	10MHz	QPSK	711	50RB#0	NV	50	18.9	0.026582	±2.5	PASS
Band12	10MHz	16QAM	704	50RB#0	NV	-30	-18.2	-0.025852	±2.5	PASS
Band12	10MHz	16QAM	704	50RB#0	NV	-20	-12.5	-0.017756	±2.5	PASS
Band12	10MHz	16QAM	704	50RB#0	NV	0	7.9	0.011222	±2.5	PASS
Band12	10MHz	16QAM	704	50RB#0	NV	10	-1.4	-0.001989	±2.5	PASS
Band12	10MHz	16QAM	704	50RB#0	NV	20	-13	-0.018466	±2.5	PASS
Band12	10MHz	16QAM	704	50RB#0	NV	30	11.1	0.015767	±2.5	PASS
Band12	10MHz	16QAM	704	50RB#0	NV	40	4.5	0.006392	±2.5	PASS
Band12	10MHz	16QAM	704	50RB#0	NV	50	-23.3	-0.033097	±2.5	PASS
Band12	10MHz	16QAM	707.5	50RB#0	NV	-30	6.3	0.008905	±2.5	PASS
Band12	10MHz	16QAM	707.5	50RB#0	NV	-20	15.7	0.022191	±2.5	PASS
Band12	10MHz	16QAM	707.5	50RB#0	NV	0	8.6	0.012155	±2.5	PASS
Band12	10MHz	16QAM	707.5	50RB#0	NV	10	-21.7	-0.030671	±2.5	PASS
Band12	10MHz	16QAM	707.5	50RB#0	NV	20	19	0.026855	±2.5	PASS
Band12	10MHz	16QAM	707.5	50RB#0	NV	30	-20.7	-0.029258	±2.5	PASS
Band12	10MHz	16QAM	707.5	50RB#0	NV	40	-16.6	-0.023463	±2.5	PASS
Band12	10MHz	16QAM	707.5	50RB#0	NV	50	10.5	0.014841	±2.5	PASS
Band12	10MHz	16QAM	711	50RB#0	NV	-30	-23.3	-0.032771	±2.5	PASS
Band12	10MHz	16QAM	711	50RB#0	NV	-20	-7.2	-0.010127	±2.5	PASS
Band12	10MHz	16QAM	711	50RB#0	NV	0	-16.5	-0.023207	±2.5	PASS
Band12	10MHz	16QAM	711	50RB#0	NV	10	-11.8	-0.016596	±2.5	PASS
Band12	10MHz	16QAM	711	50RB#0	NV	20	-5.7	-0.008017	±2.5	PASS
Band12	10MHz	16QAM	711	50RB#0	NV	30	-12.6	-0.017722	±2.5	PASS
Band12	10MHz	16QAM	711	50RB#0	NV	40	2.8	0.003938	±2.5	PASS



BUREAU  
VERITAS

Test Report No.: PSU-QSU2308280414RF03

Band12	10MHz	16QAM	711	50RB#0	NV	50	11.4	0.016034	±2.5	PASS
Band12	10MHz	64QAM	704	50RB#0	NV	-30	13.14	0.018665	±2.5	PASS
Band12	10MHz	64QAM	704	50RB#0	NV	-20	6.5	0.009233	±2.5	PASS
Band12	10MHz	64QAM	704	50RB#0	NV	0	18.6	0.026420	±2.5	PASS
Band12	10MHz	64QAM	704	50RB#0	NV	10	-16.5	-0.023438	±2.5	PASS
Band12	10MHz	64QAM	704	50RB#0	NV	20	15.4	0.021875	±2.5	PASS
Band12	10MHz	64QAM	704	50RB#0	NV	30	-18.9	-0.026847	±2.5	PASS
Band12	10MHz	64QAM	704	50RB#0	NV	40	-6	-0.008523	±2.5	PASS
Band12	10MHz	64QAM	704	50RB#0	NV	50	13.1	0.018608	±2.5	PASS
Band12	10MHz	64QAM	707.5	50RB#0	NV	-30	22.4	0.031661	±2.5	PASS
Band12	10MHz	64QAM	707.5	50RB#0	NV	-20	-16.4	-0.023180	±2.5	PASS
Band12	10MHz	64QAM	707.5	50RB#0	NV	0	-16.4	-0.023180	±2.5	PASS
Band12	10MHz	64QAM	707.5	50RB#0	NV	10	-14	-0.019788	±2.5	PASS
Band12	10MHz	64QAM	707.5	50RB#0	NV	20	11.5	0.016254	±2.5	PASS
Band12	10MHz	64QAM	707.5	50RB#0	NV	30	-17.6	-0.024876	±2.5	PASS
Band12	10MHz	64QAM	707.5	50RB#0	NV	40	0.4	0.000565	±2.5	PASS
Band12	10MHz	64QAM	707.5	50RB#0	NV	50	15.5	0.021908	±2.5	PASS
Band12	10MHz	64QAM	711	50RB#0	NV	-30	-0.1	-0.000141	±2.5	PASS
Band12	10MHz	64QAM	711	50RB#0	NV	-20	1.4	0.001969	±2.5	PASS
Band12	10MHz	64QAM	711	50RB#0	NV	0	-12.7	-0.017862	±2.5	PASS
Band12	10MHz	64QAM	711	50RB#0	NV	10	5	0.007032	±2.5	PASS
Band12	10MHz	64QAM	711	50RB#0	NV	20	-7	-0.009845	±2.5	PASS
Band12	10MHz	64QAM	711	50RB#0	NV	30	-7.4	-0.010408	±2.5	PASS
Band12	10MHz	64QAM	711	50RB#0	NV	40	-6.9	-0.009705	±2.5	PASS
Band12	10MHz	64QAM	711	50RB#0	NV	50	-21.5	-0.030239	±2.5	PASS



Test Report No.: PSU-QSU2308280414RF03

## LTE BAND13

### PEAK-TO-AVERAGE RATIO(CCDF)

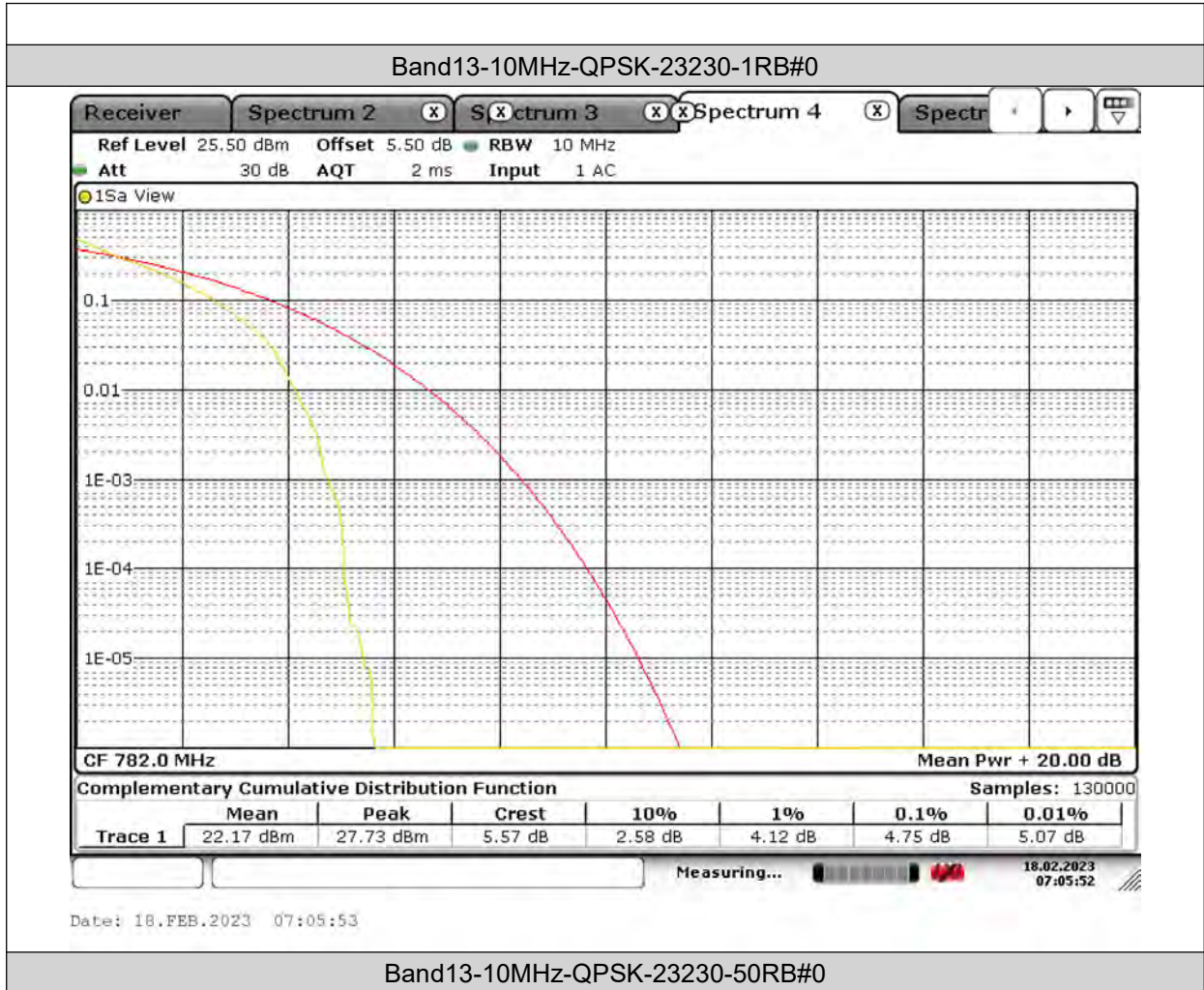
#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	1RB#0	4.75	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.83	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	6.14	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.43	13	PASS
Band13	10MHz	64QAM	23230	1RB#0	6.75	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.81	13	PASS



Test Report No.: PSU-QSU2308280414RF03

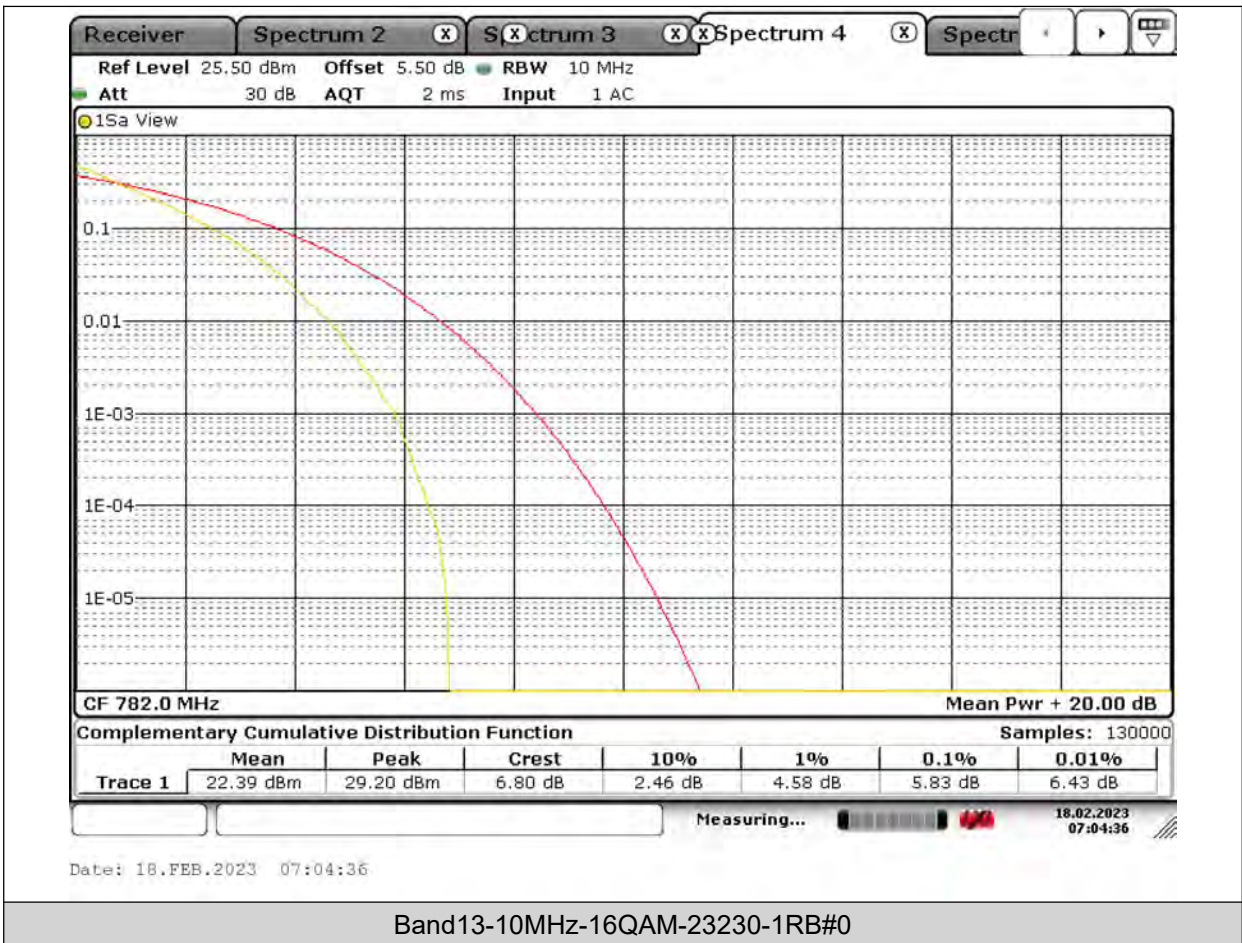
### Test Graphs





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03

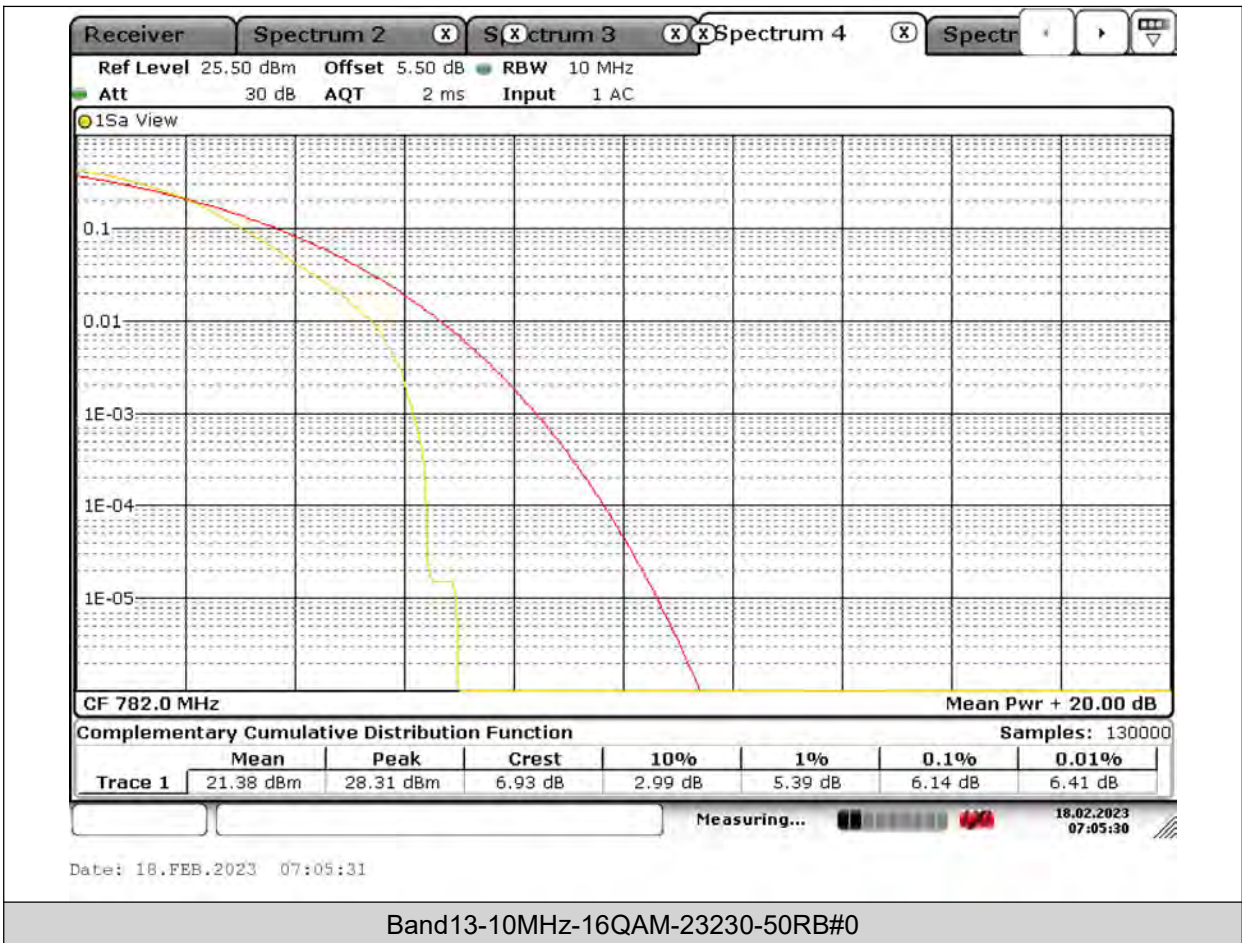






BUREAU VERITAS

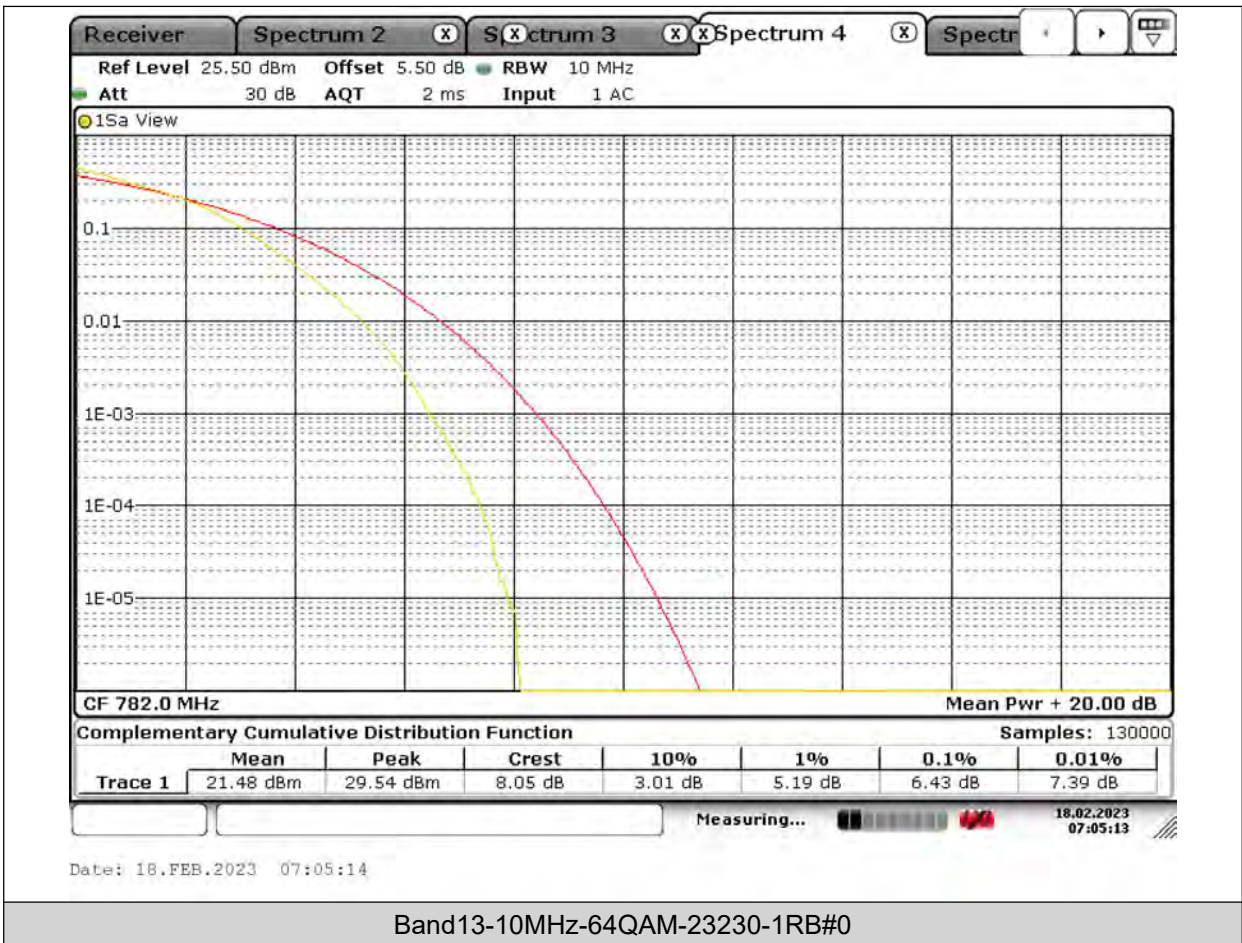
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

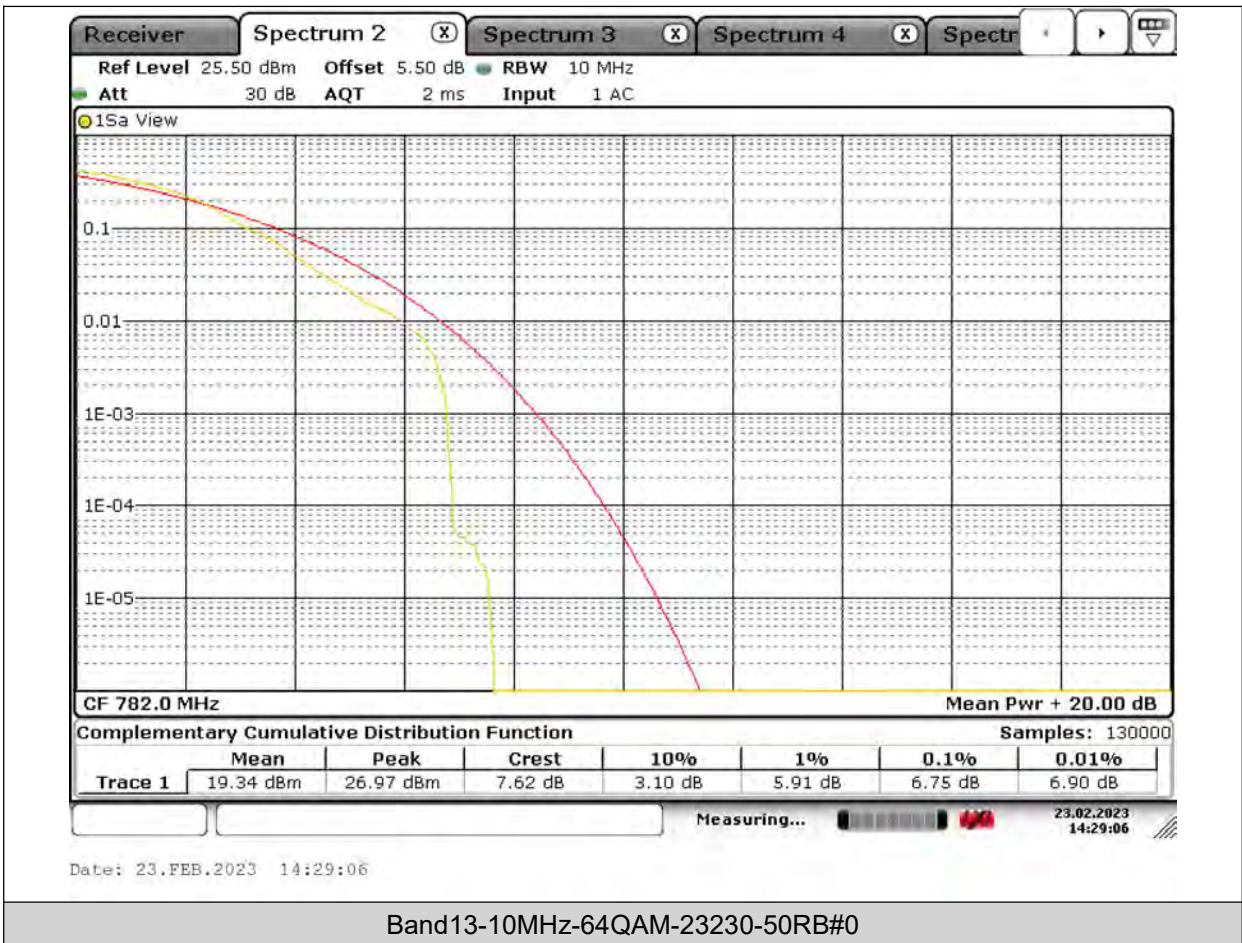
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BUREAU VERITAS

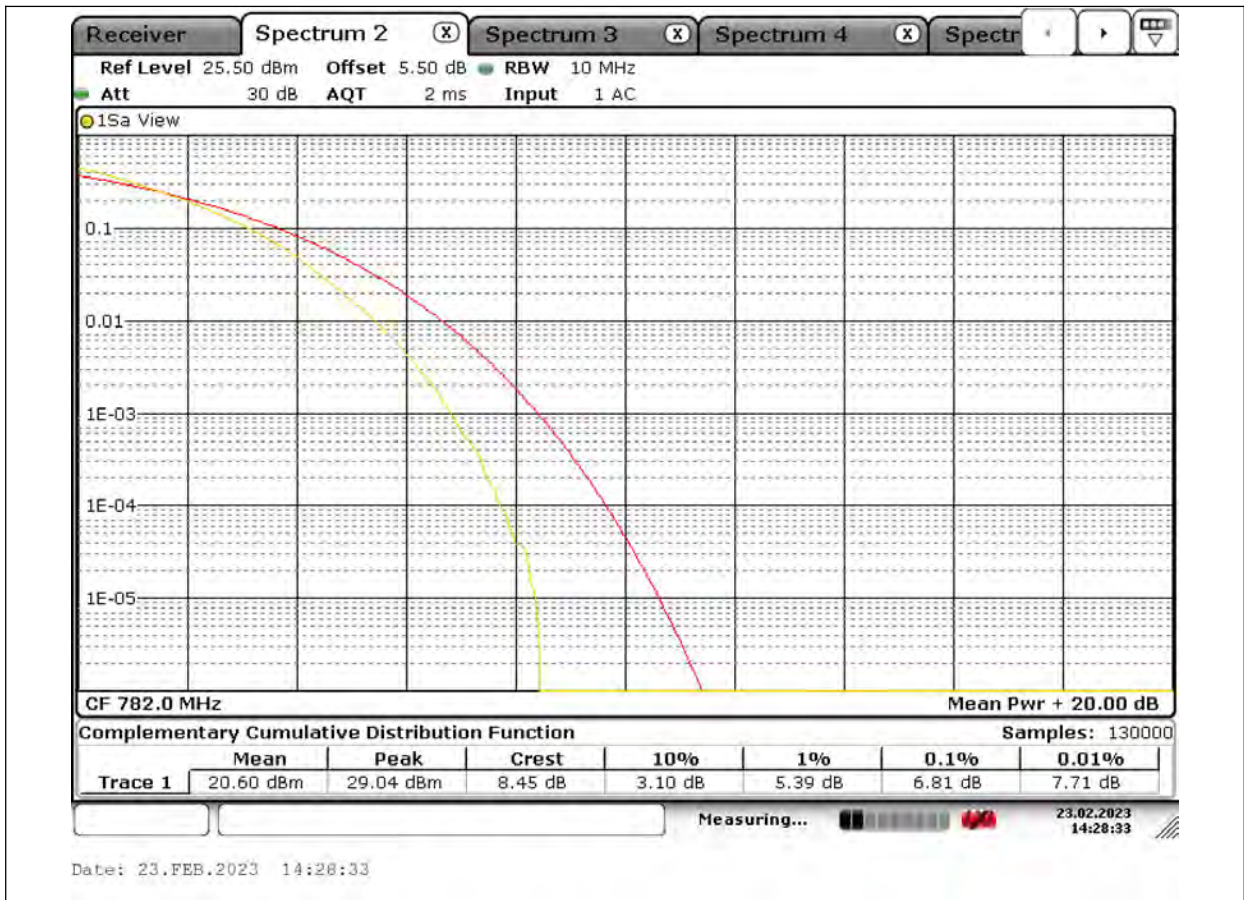
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03





Test Report No.: PSU-QSU2308280414RF03

## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

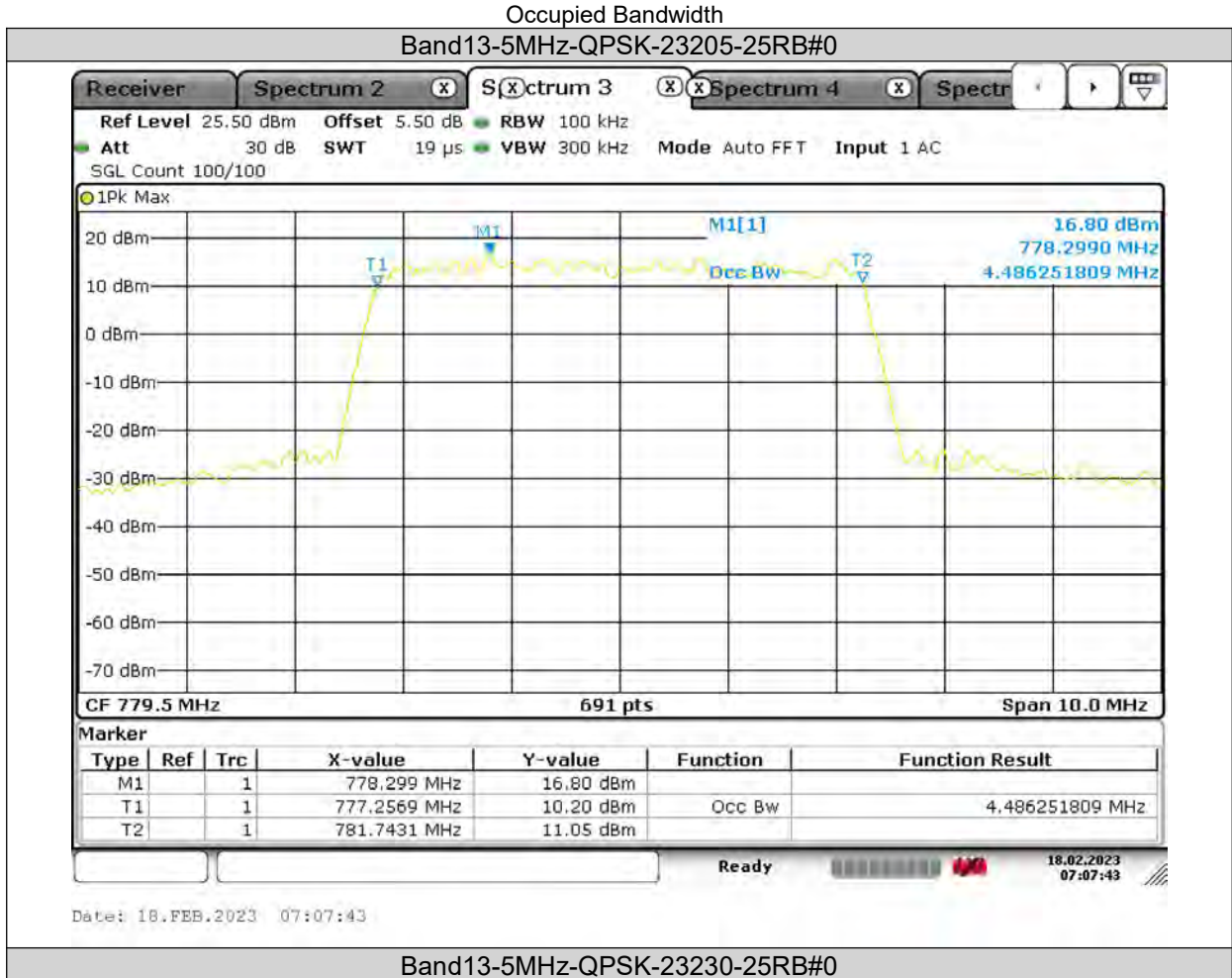
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.486	4.935	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.501	4.964	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.472	4.949	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.486	4.949	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.486	4.891	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.486	4.891	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.03	9.725	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.030	9.870	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.501	4.906	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.501	4.935	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.501	4.935	PASS
Band13	10MHz	64QAM	23230	50RB#0	9.001	9.899	PASS



Test Report No.: PSU-QSU2308280414RF03

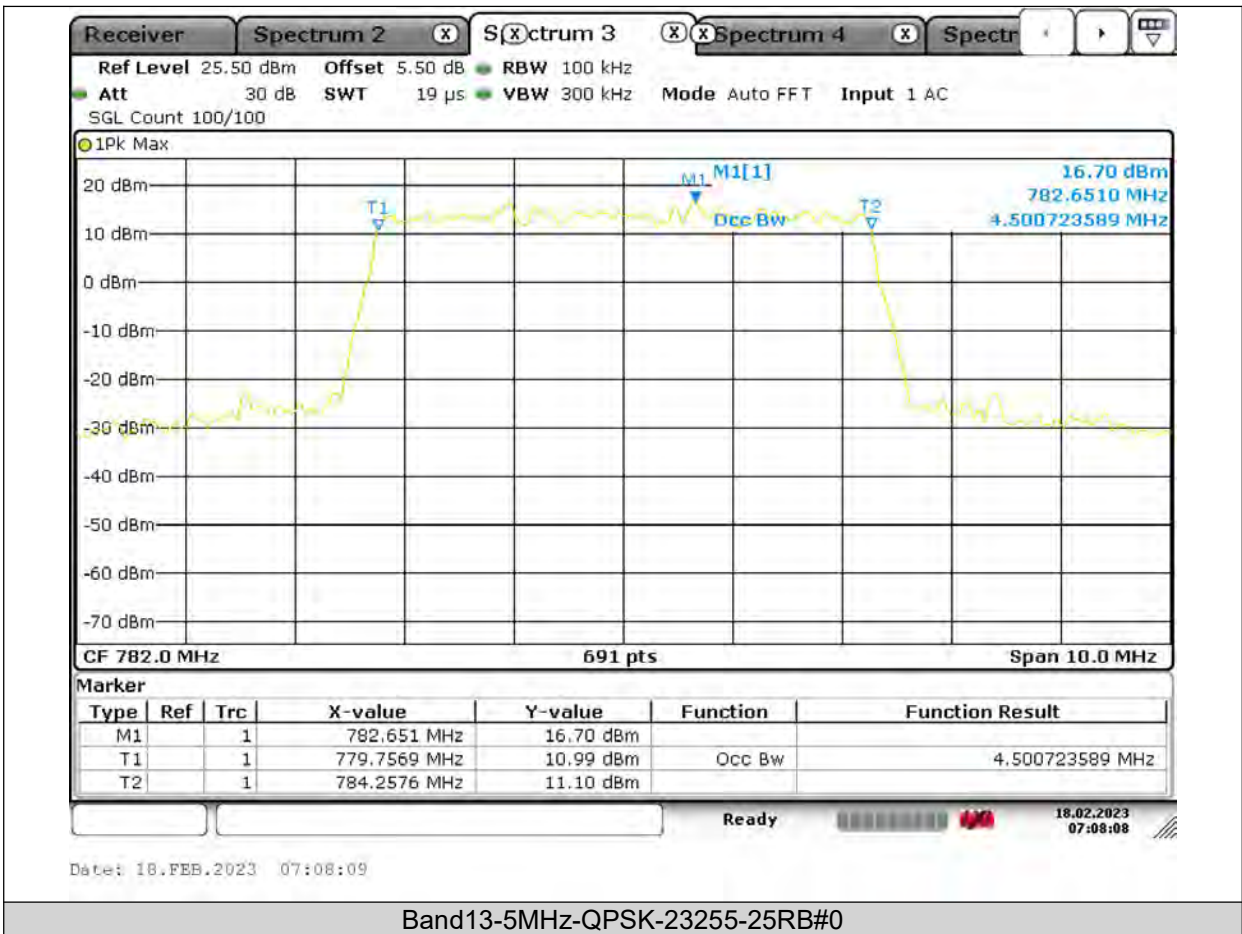
### Test Graphs





BUREAU VERITAS

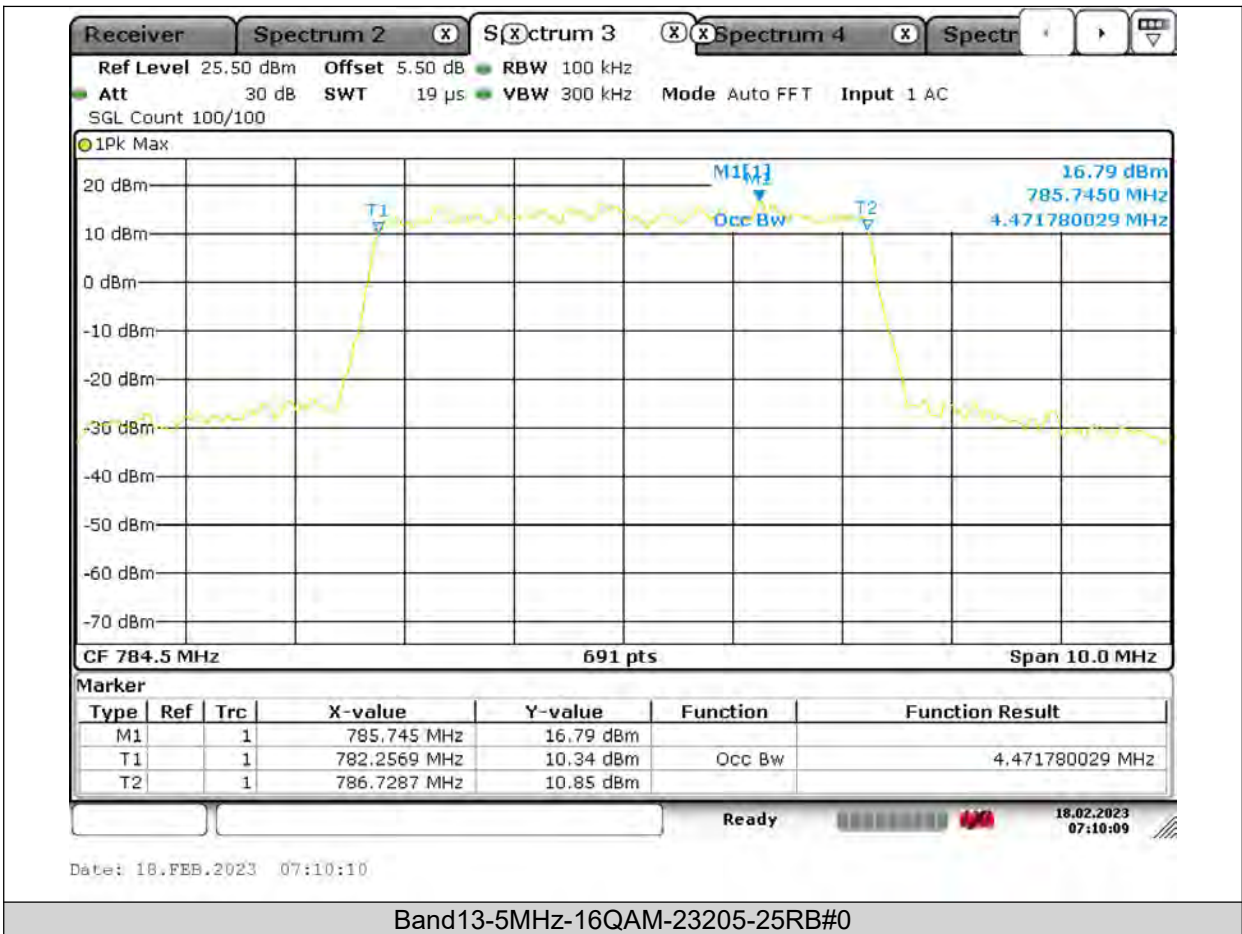
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03

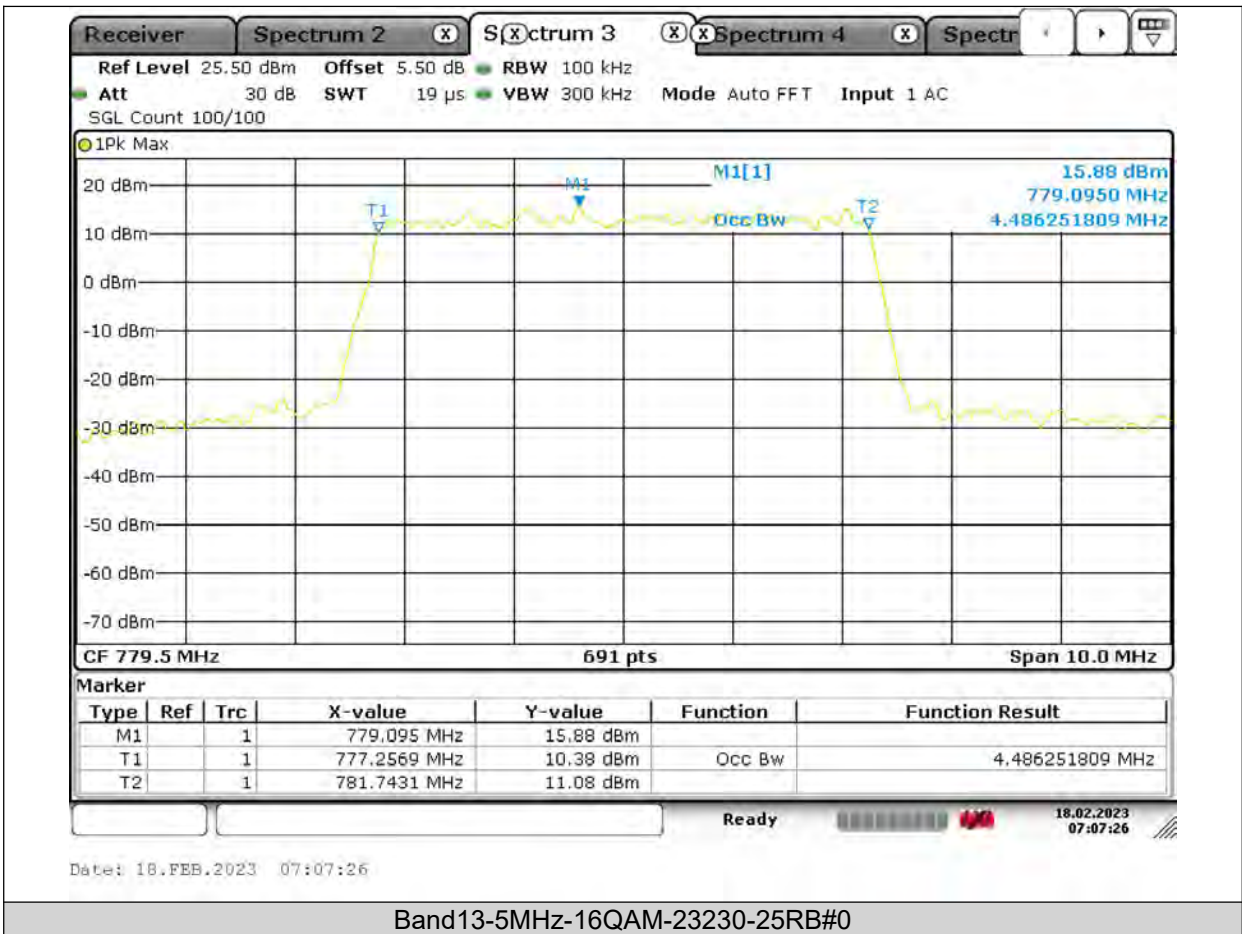






BUREAU VERITAS

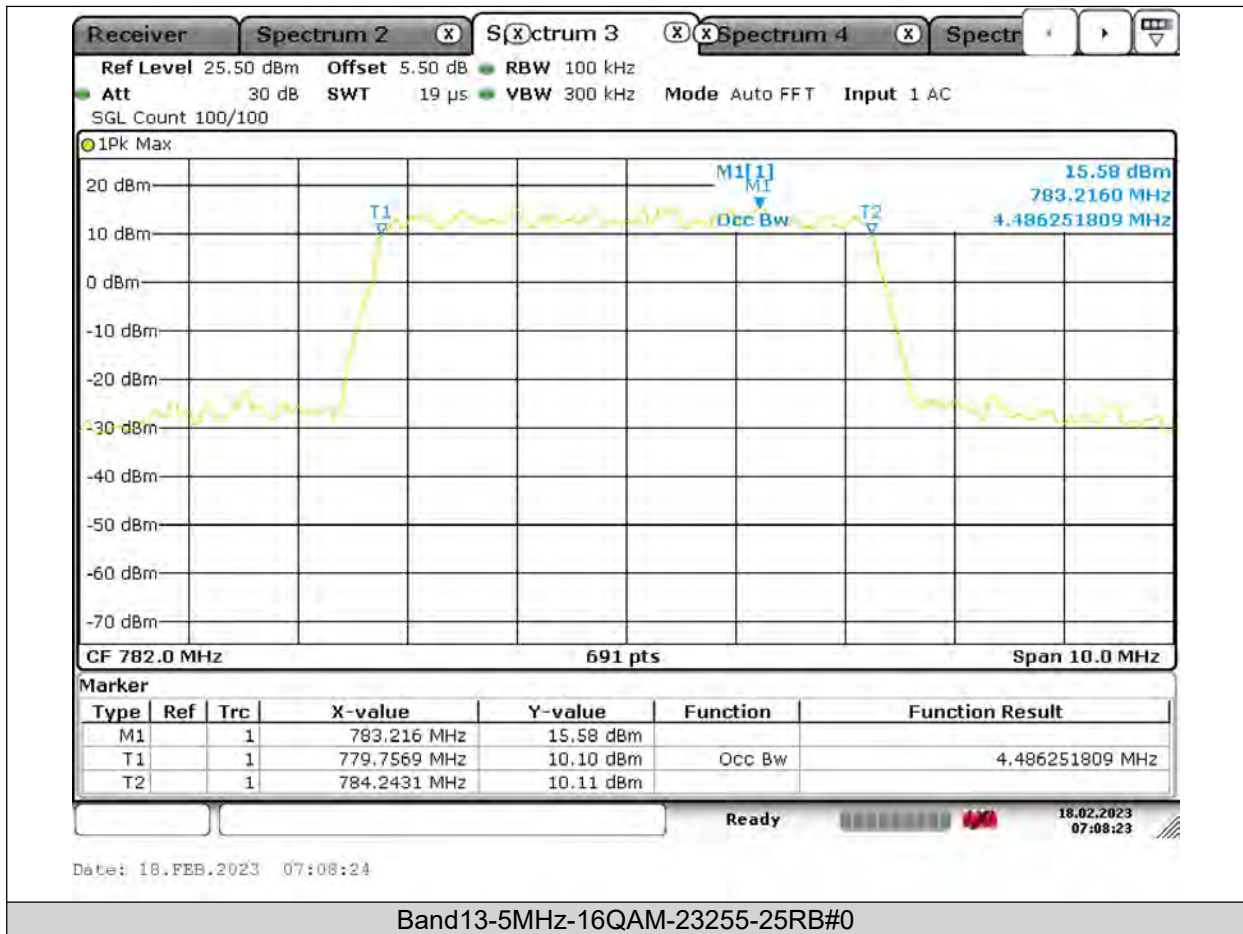
Test Report No.: PSU-QSU2308280414RF03





BUREAU  
VERITAS

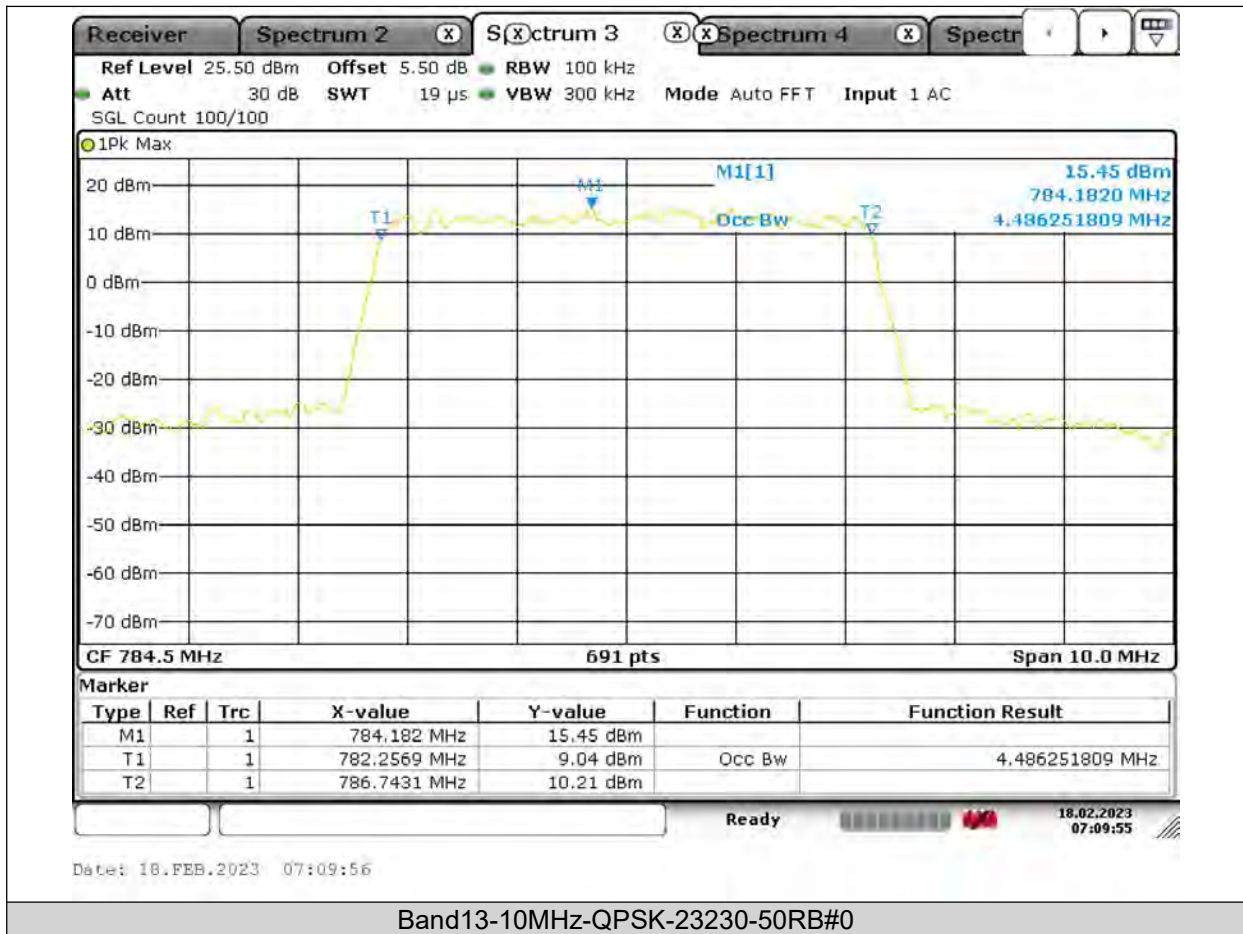
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

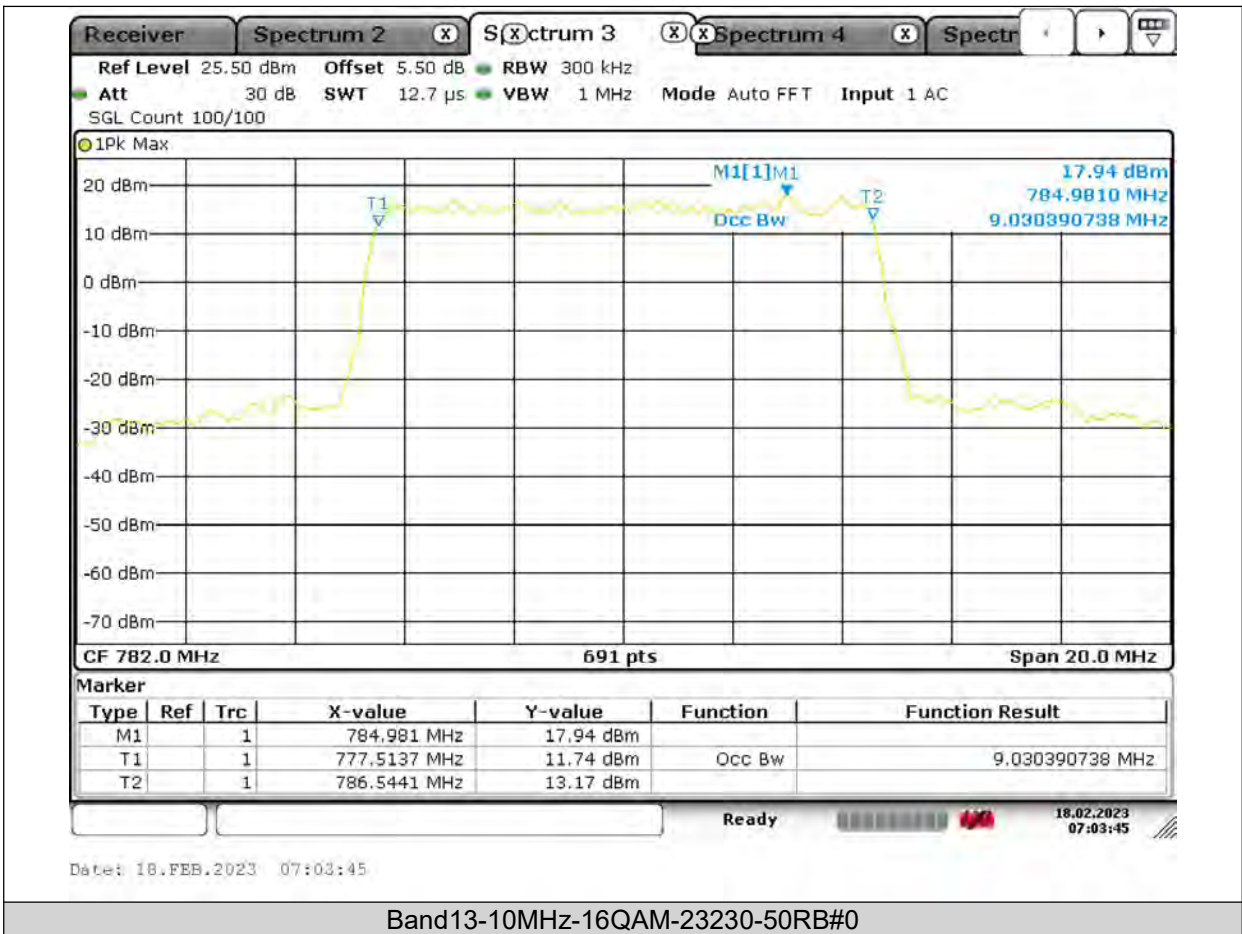
Test Report No.: PSU-QSU2308280414RF03





BUREAU  
VERITAS

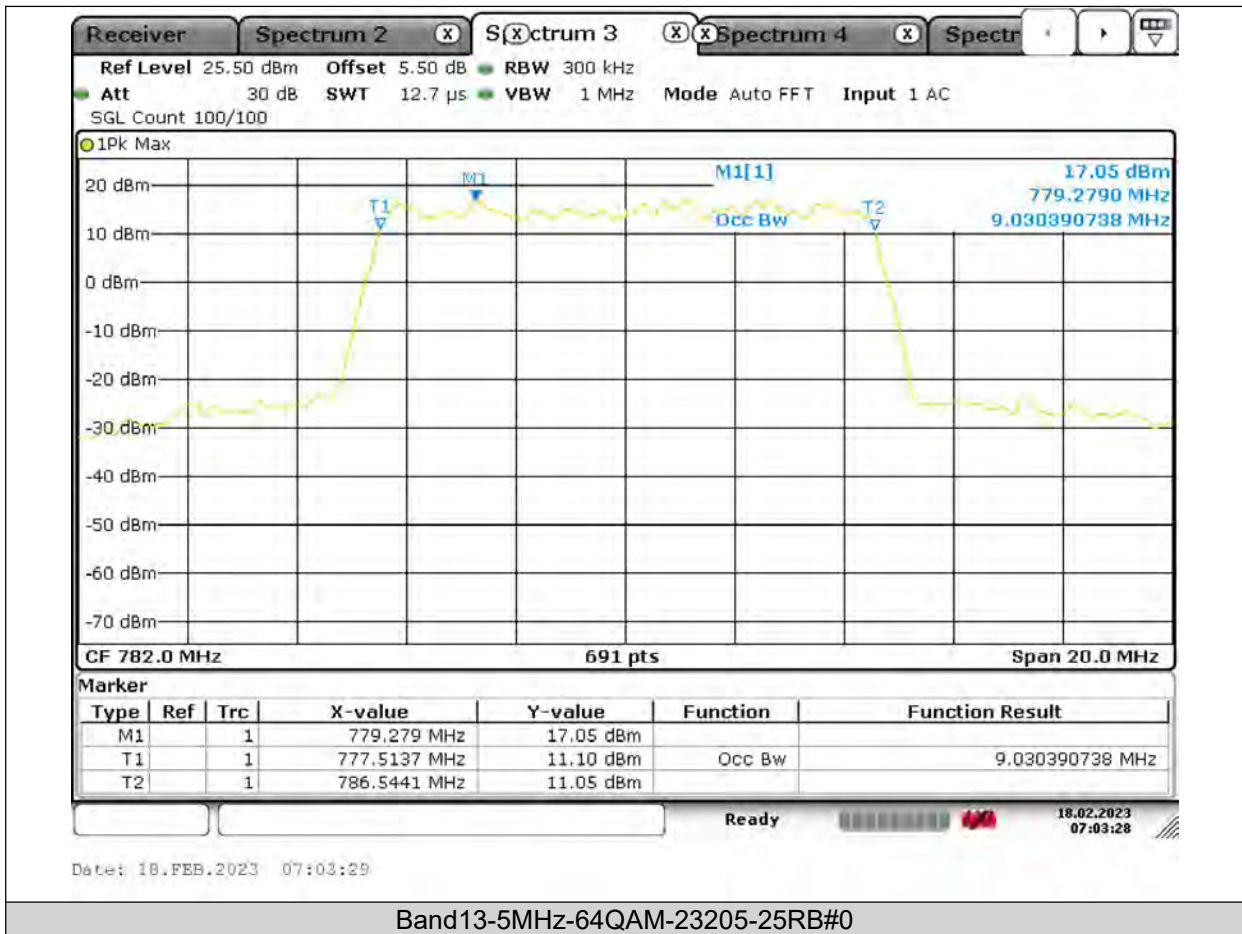
Test Report No.: PSU-QSU2308280414RF03





BUREAU  
VERITAS

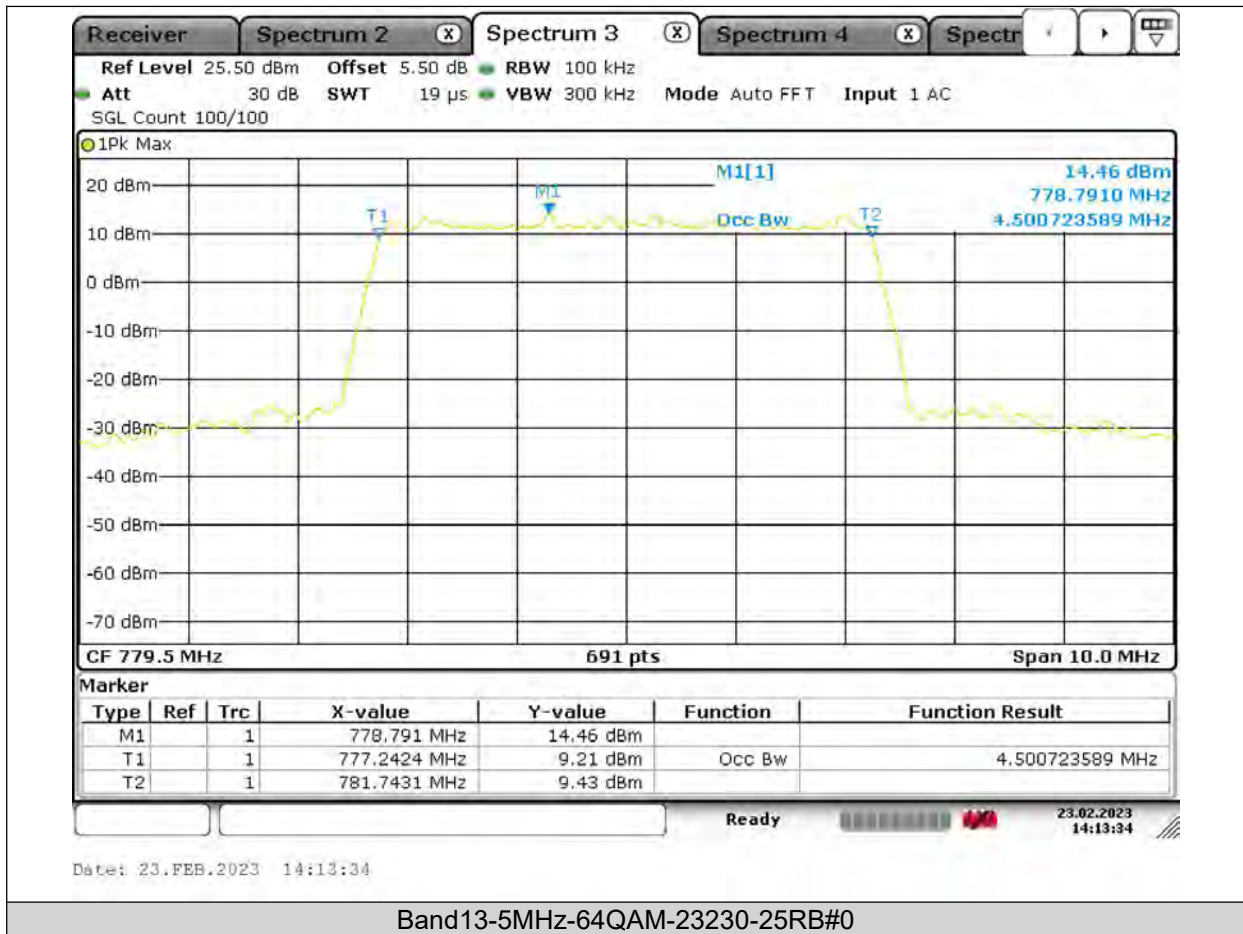
Test Report No.: PSU-QSU2308280414RF03





BUREAU  
VERITAS

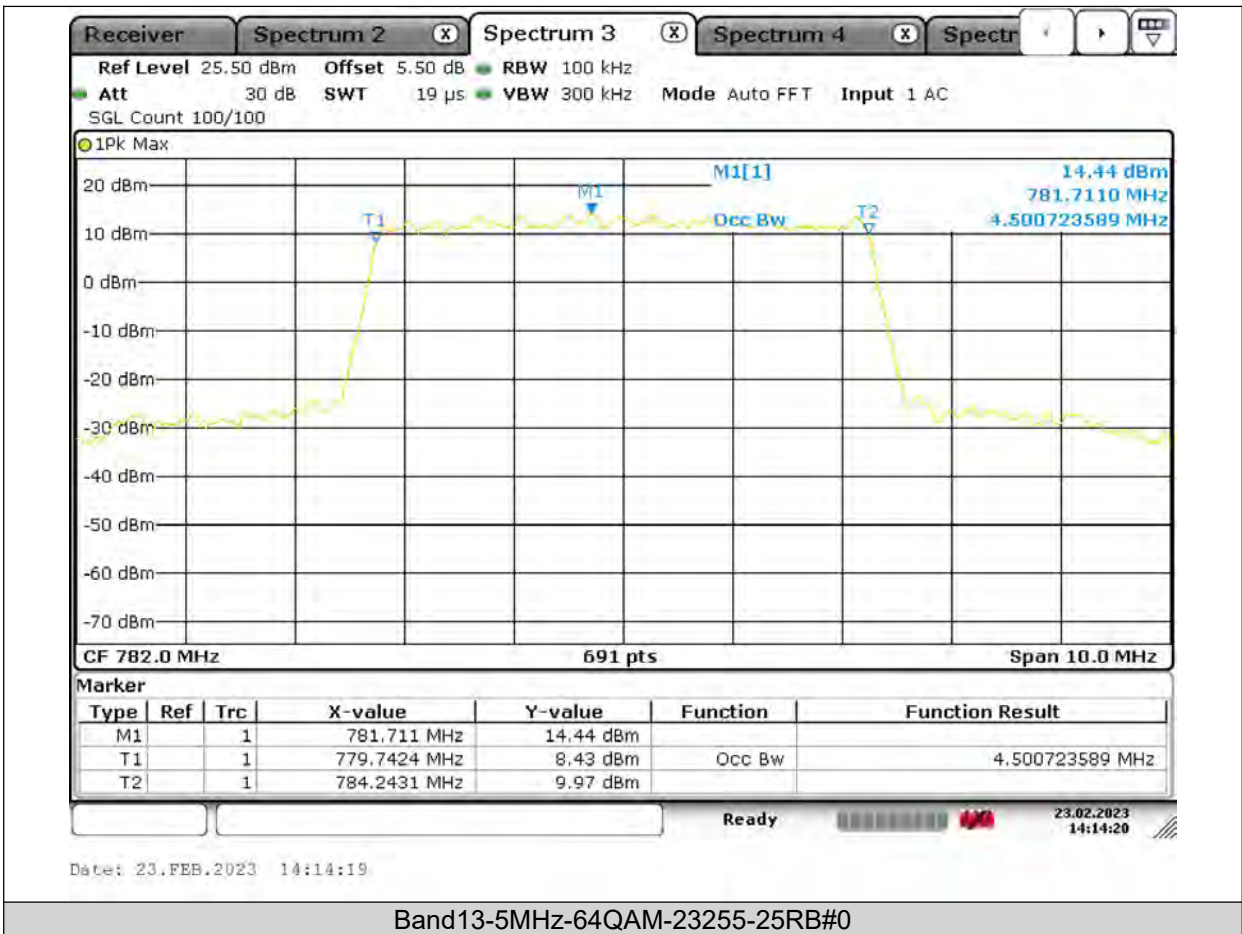
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BUREAU  
VERITAS

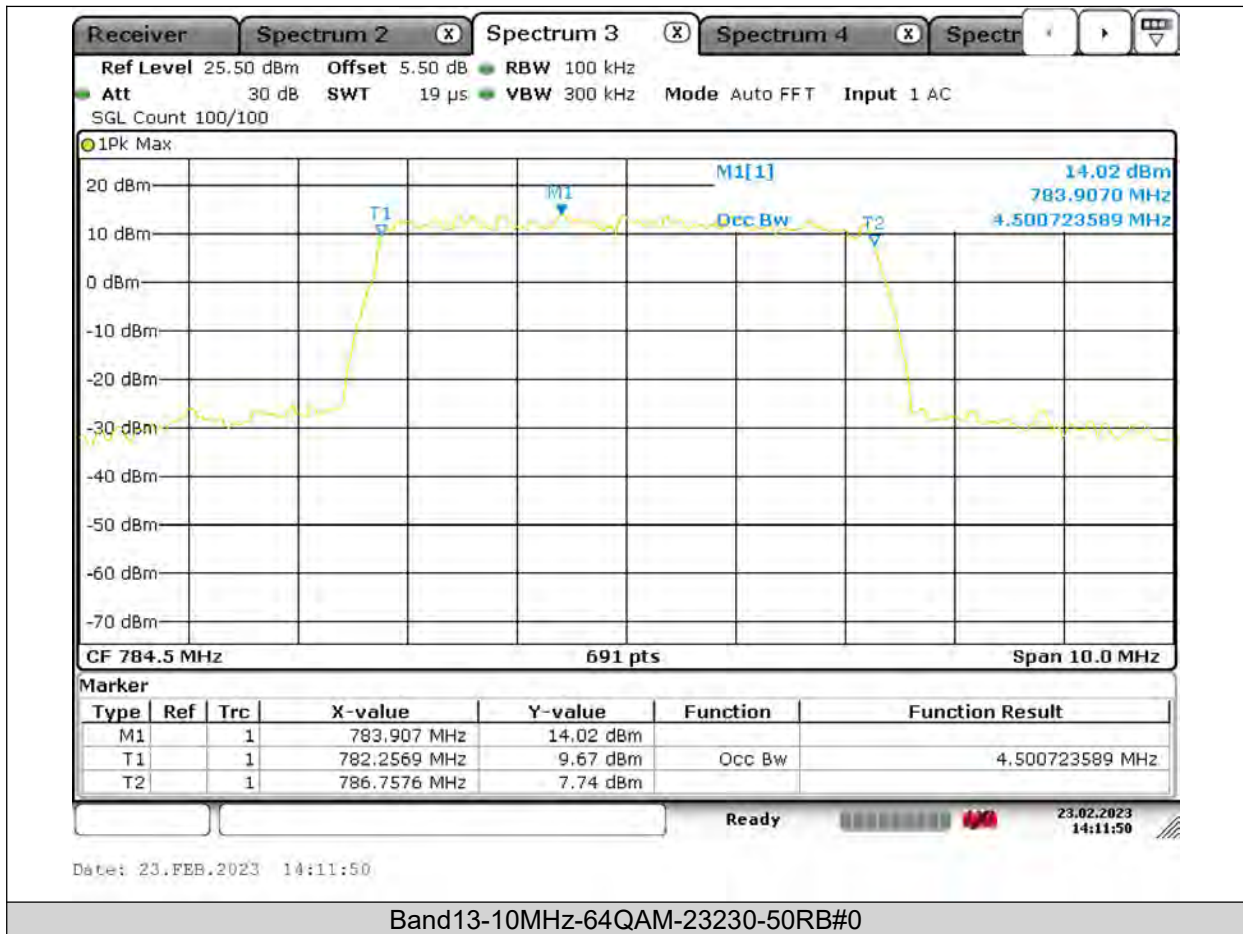
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BUREAU  
VERITAS

Test Report No.: PSU-QSU2308280414RF03

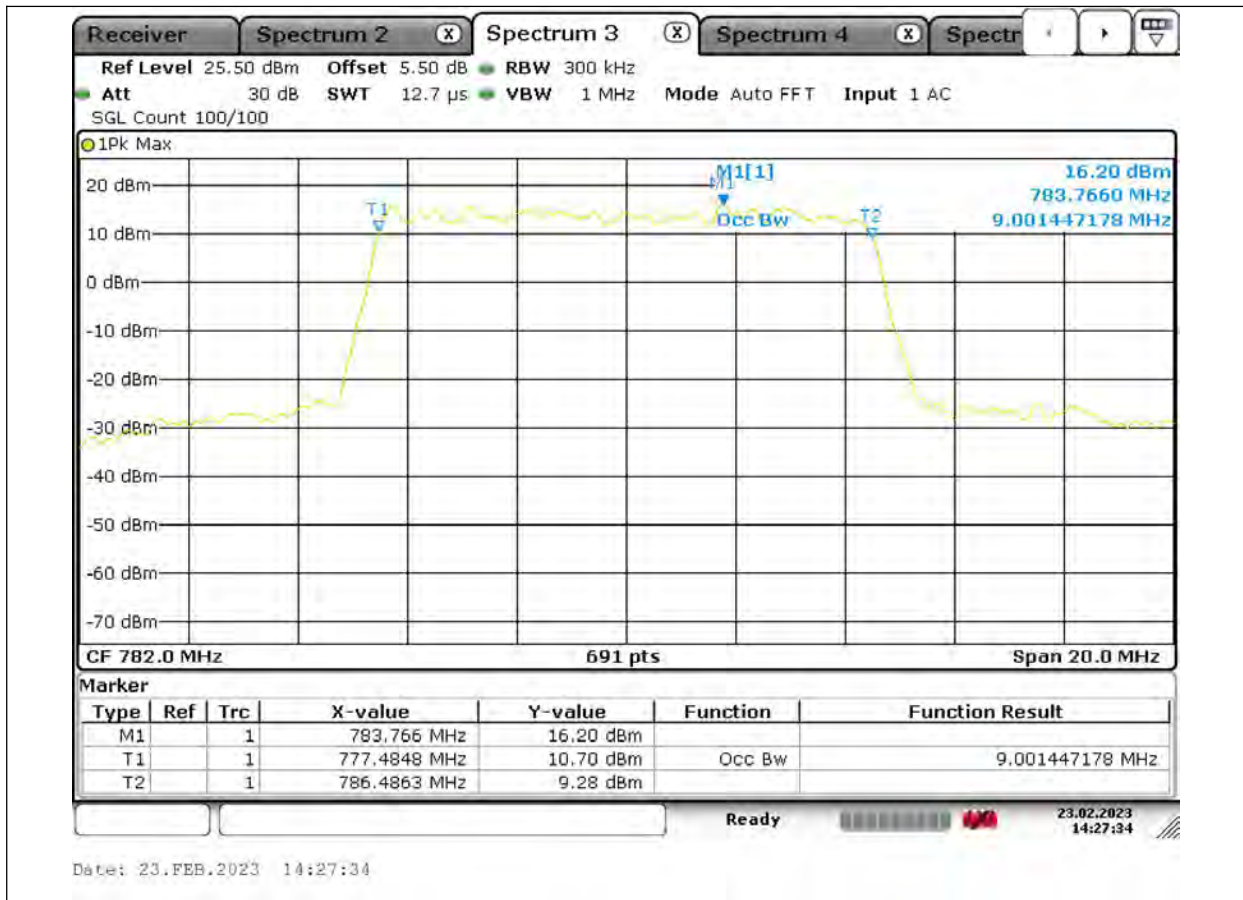






BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03



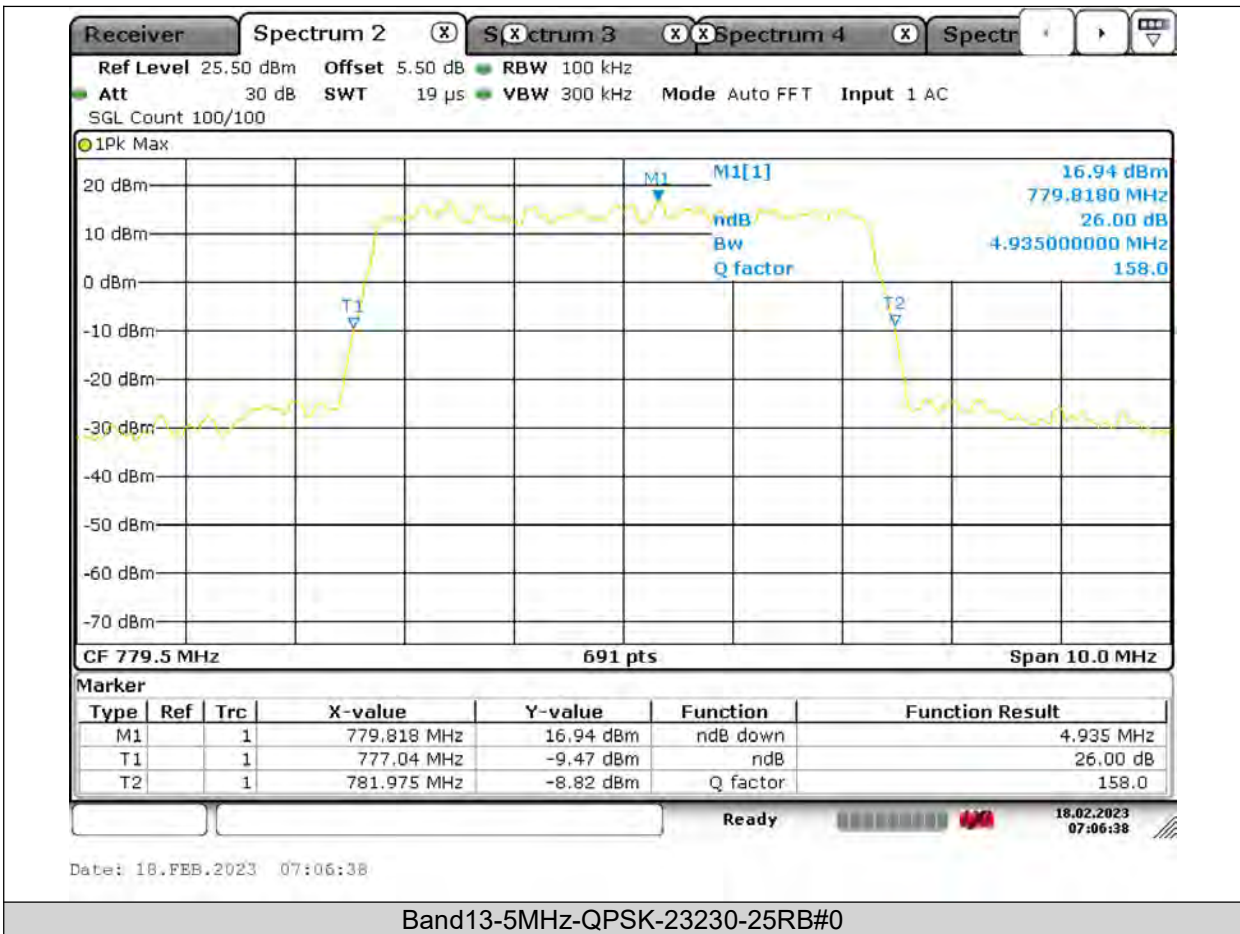
26dB Bandwidth

Band13-5MHz-QPSK-23205-25RB#0



BUREAU VERITAS

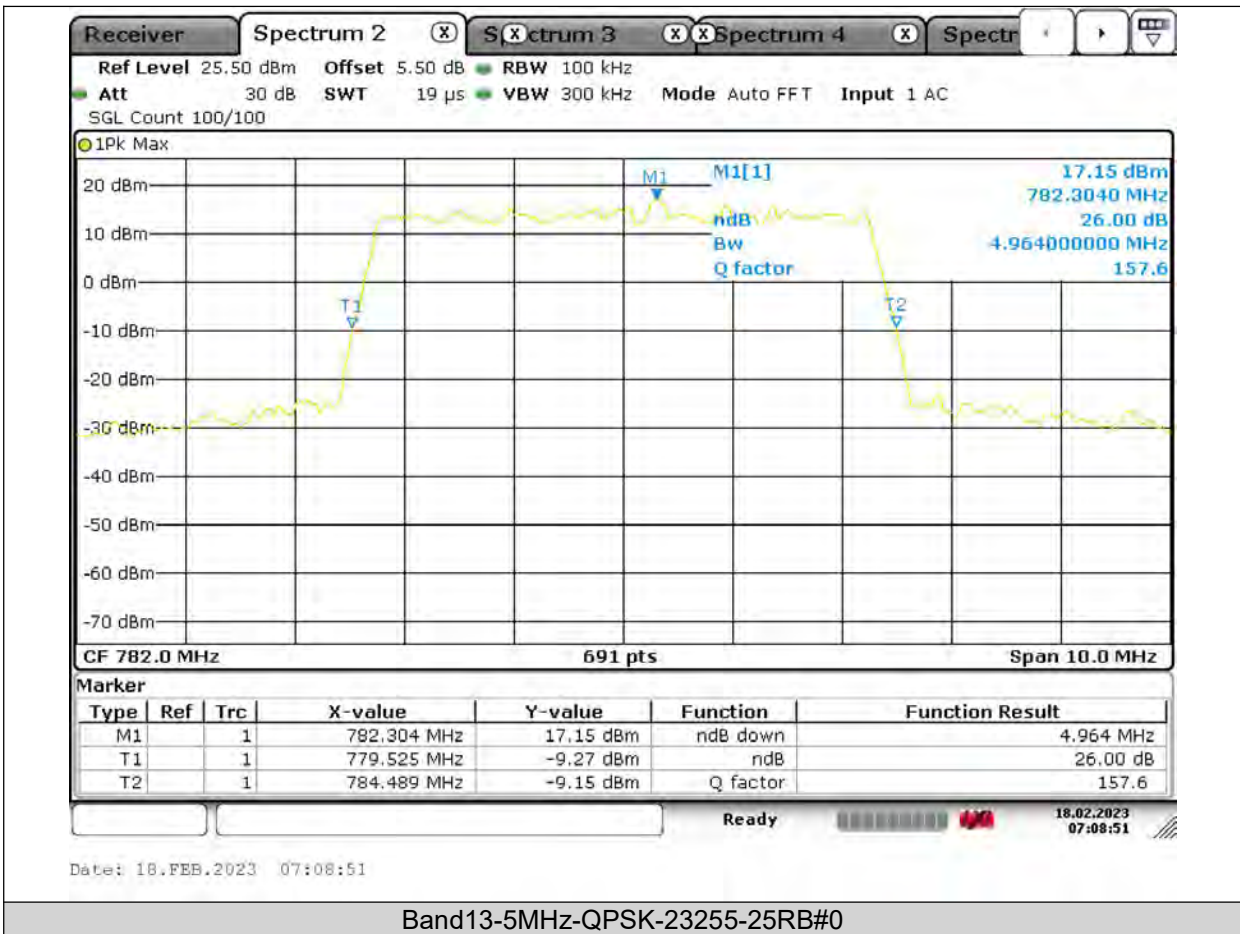
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BUREAU VERITAS

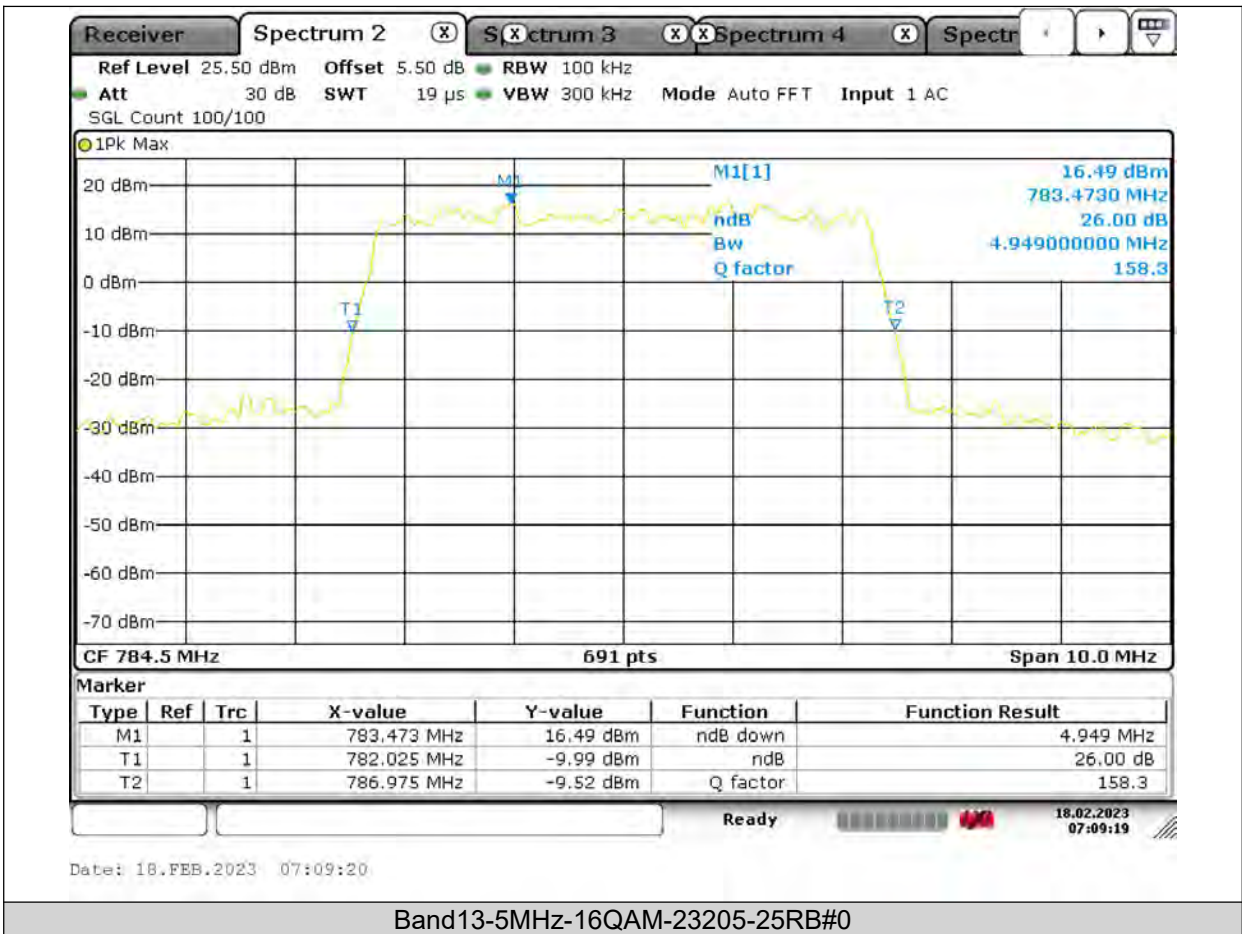
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BUREAU VERITAS

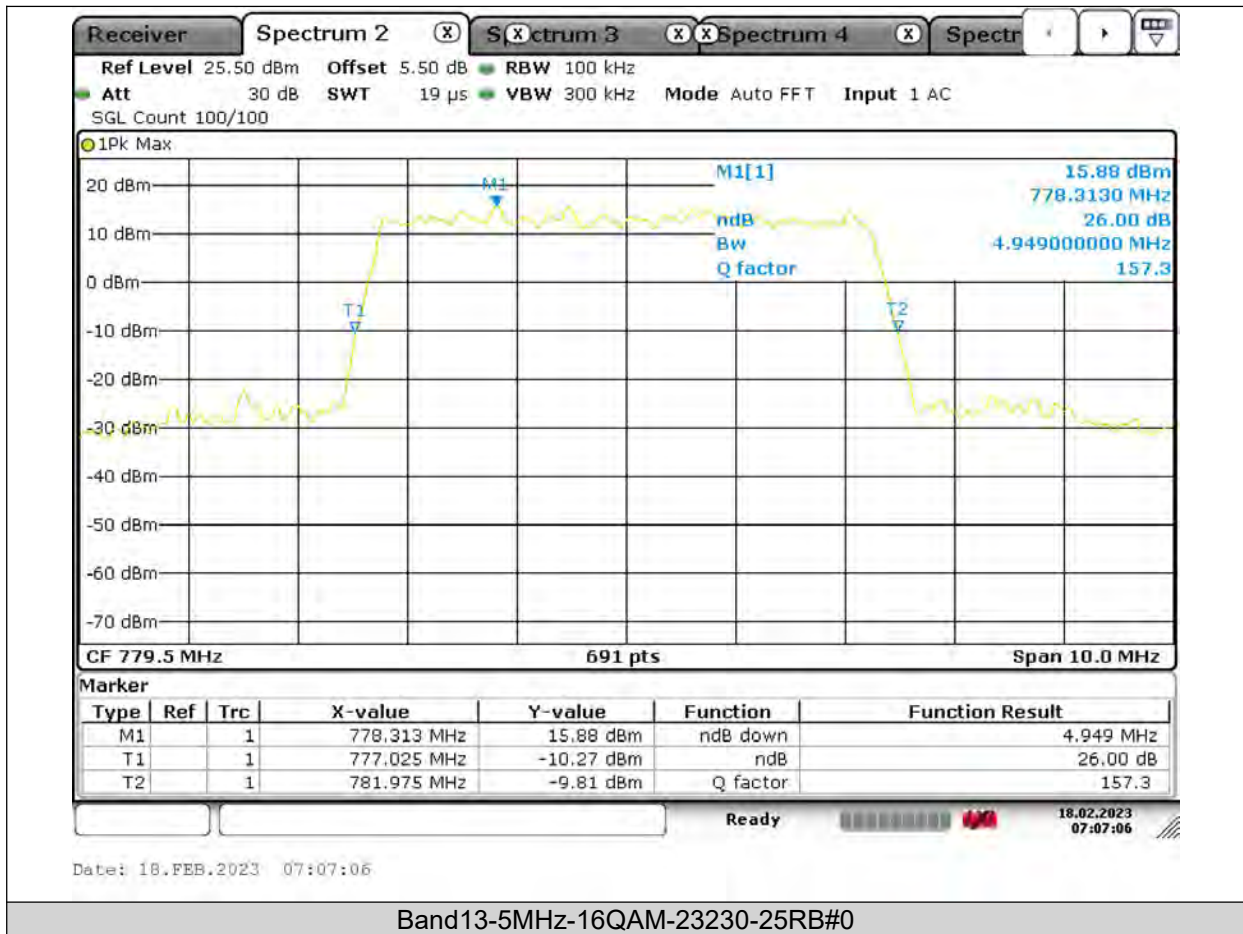
Test Report No.: PSU-QSU2308280414RF03





**BUREAU  
VERITAS**

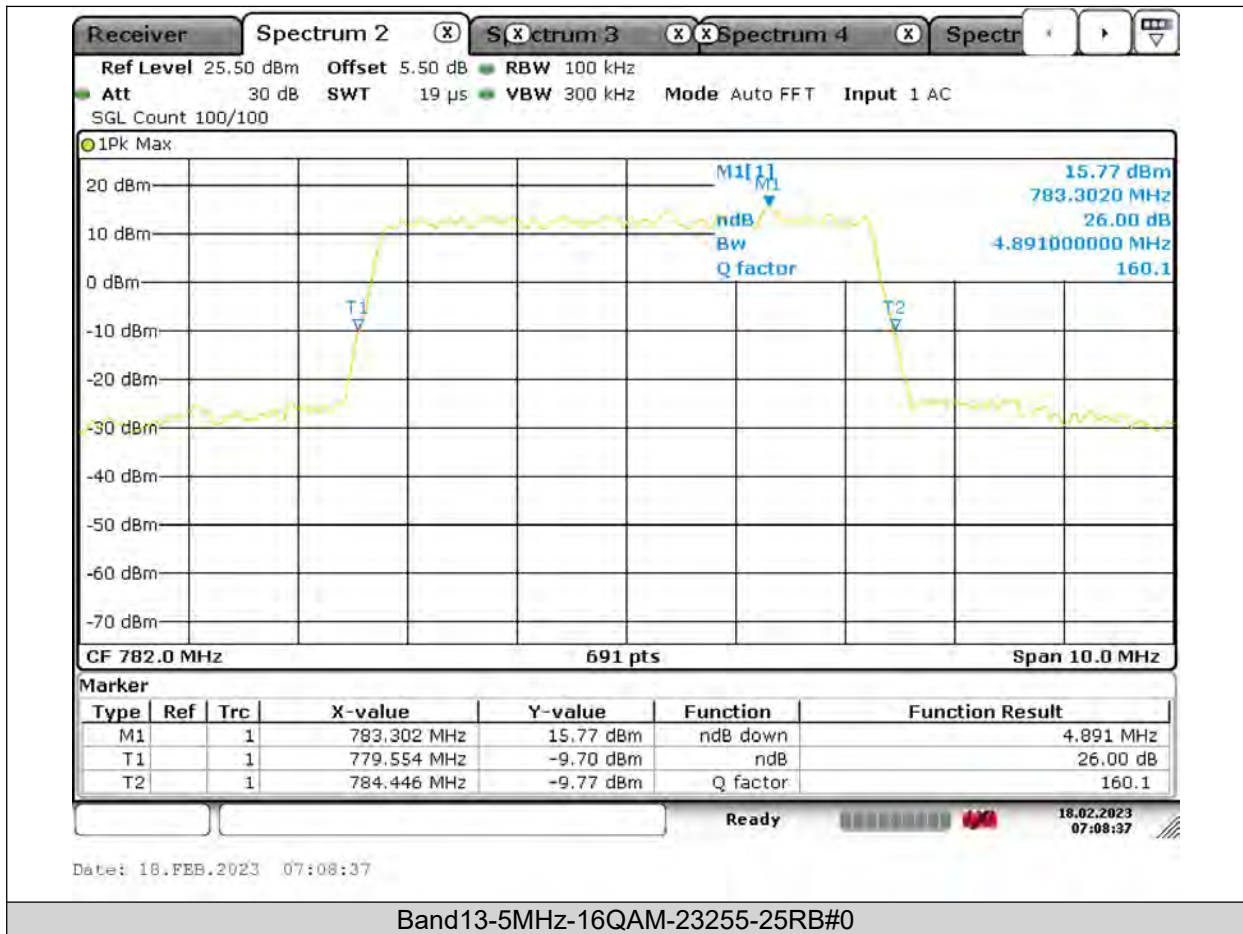
Test Report No.: PSU-QSU2308280414RF03





BUREAU  
VERITAS

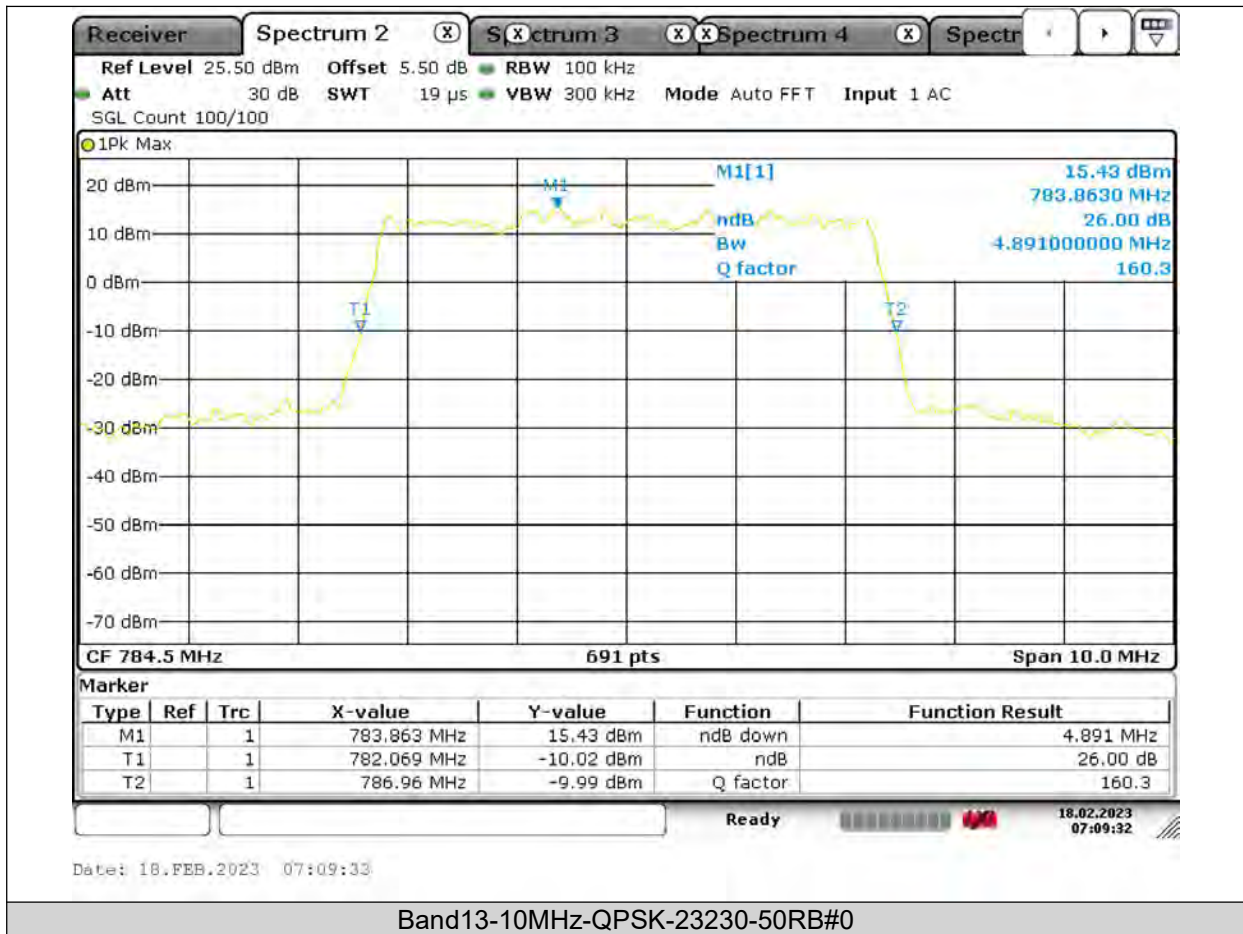
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

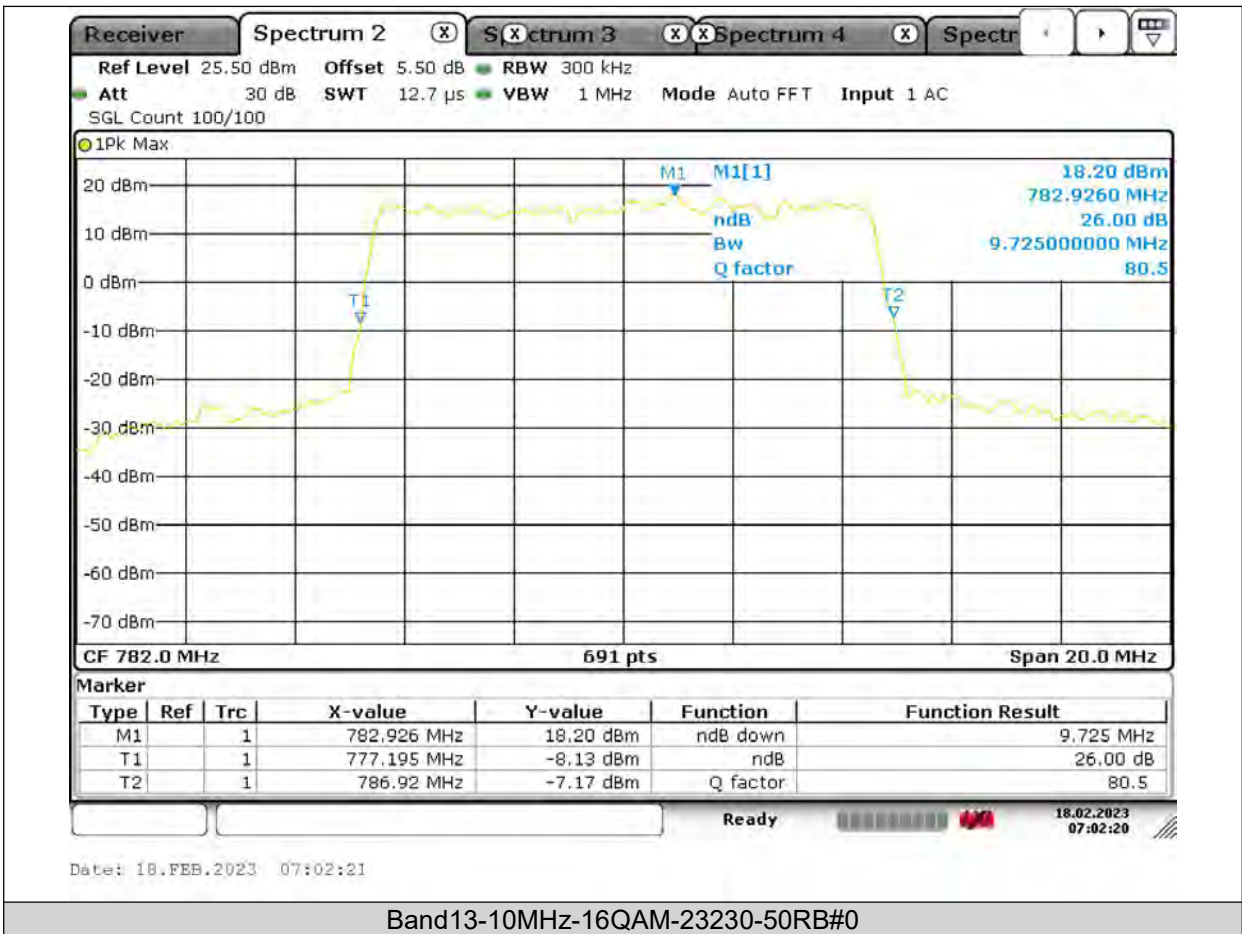
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BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03

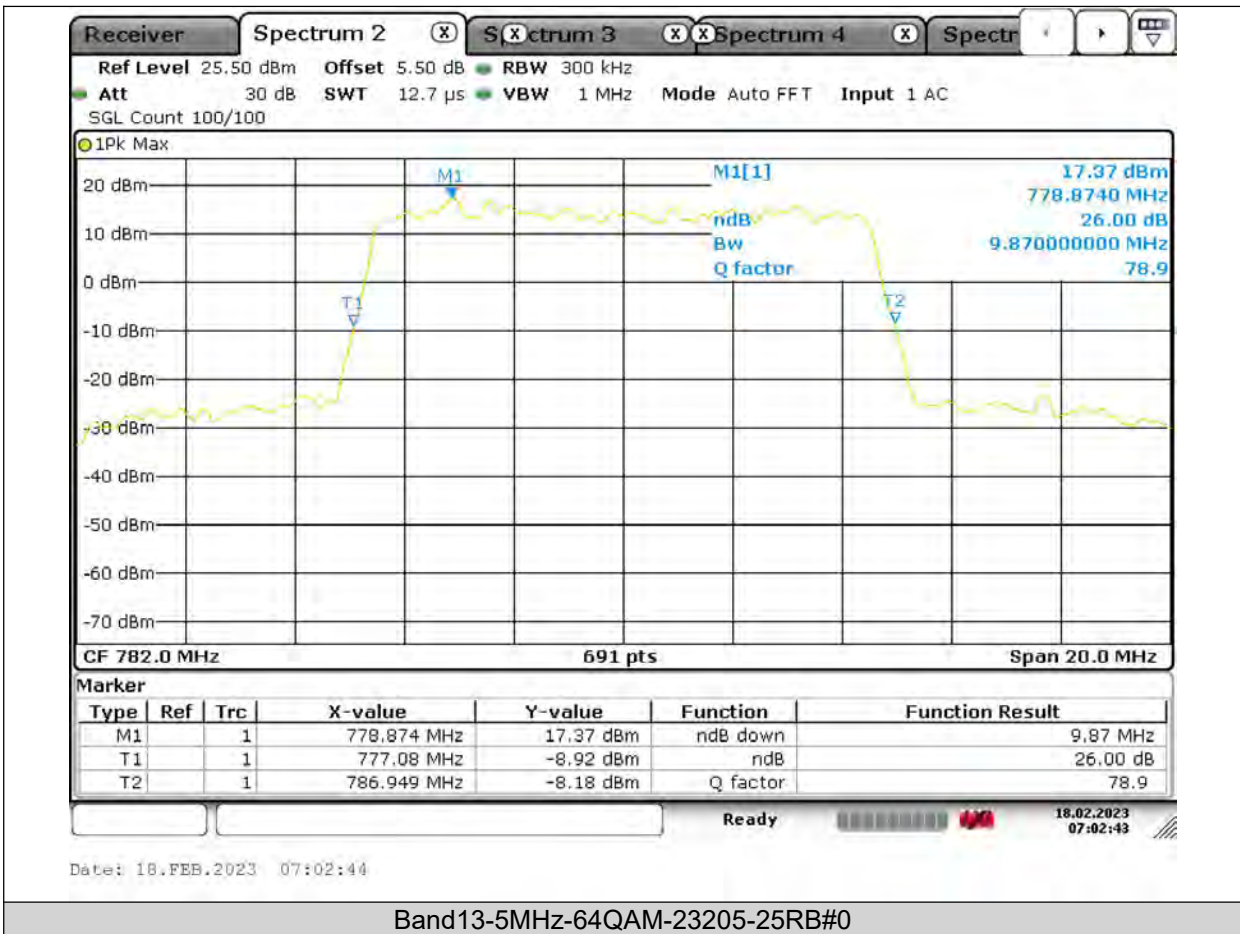






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VERITAS

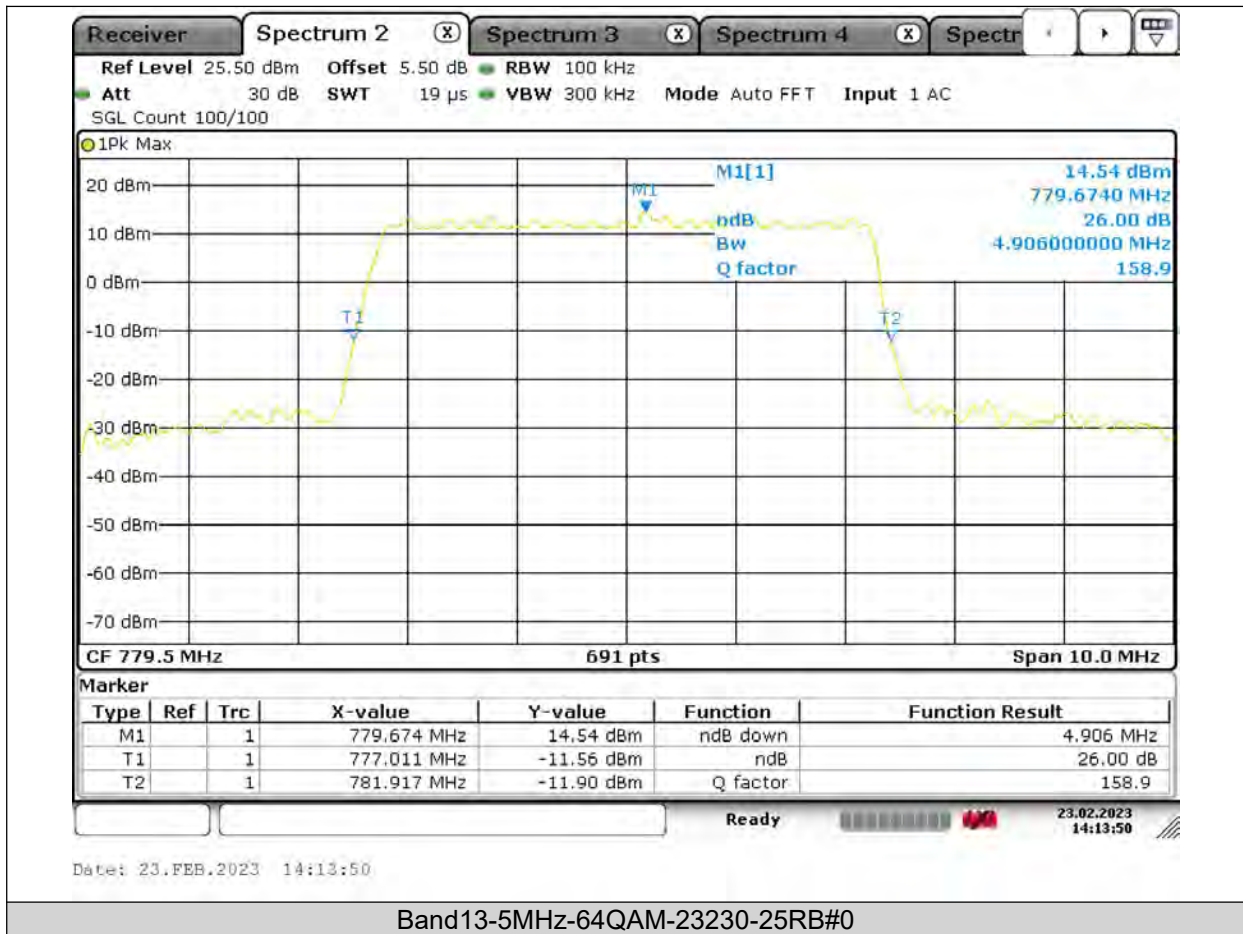
Test Report No.: PSU-QSU2308280414RF03





BUREAU  
VERITAS

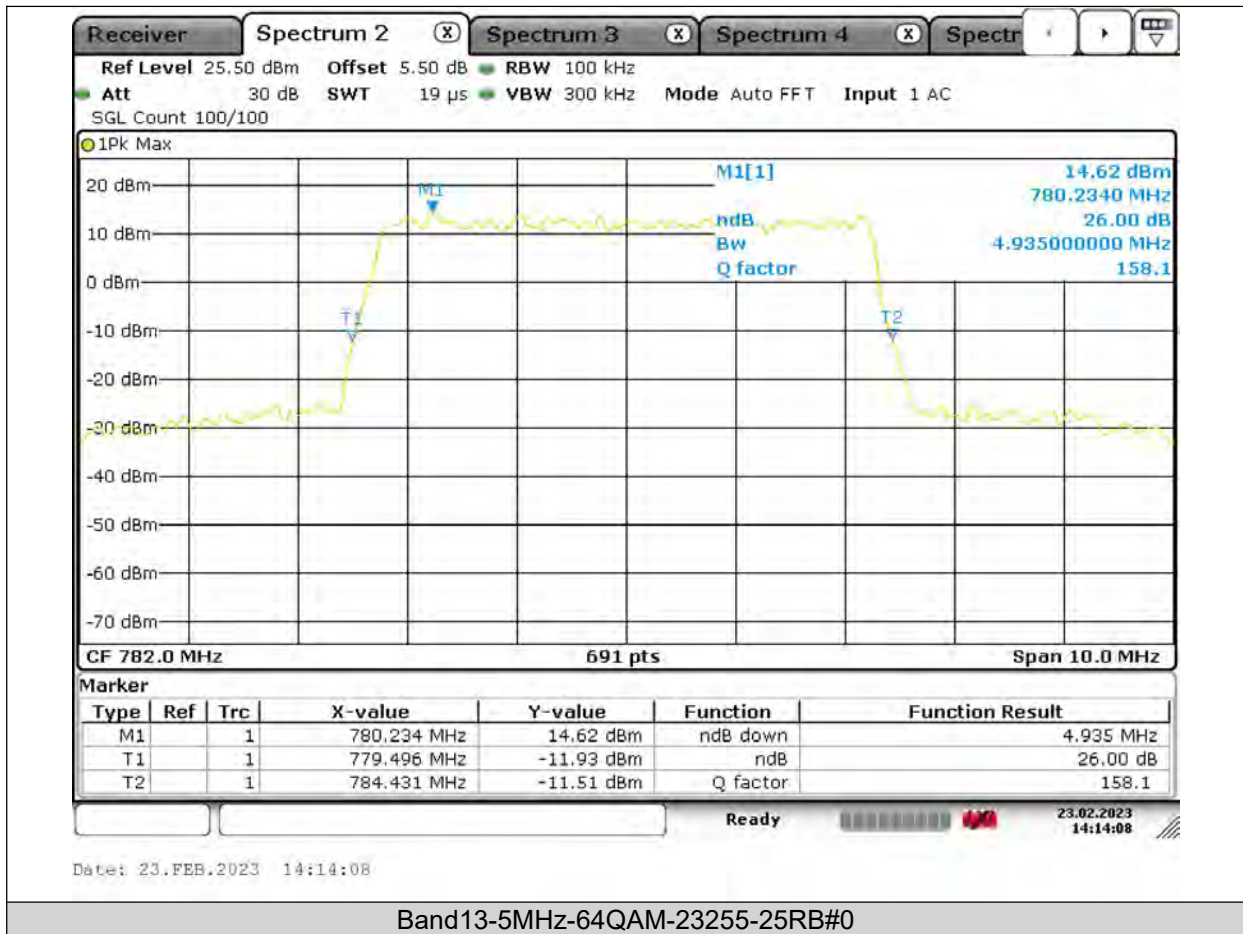
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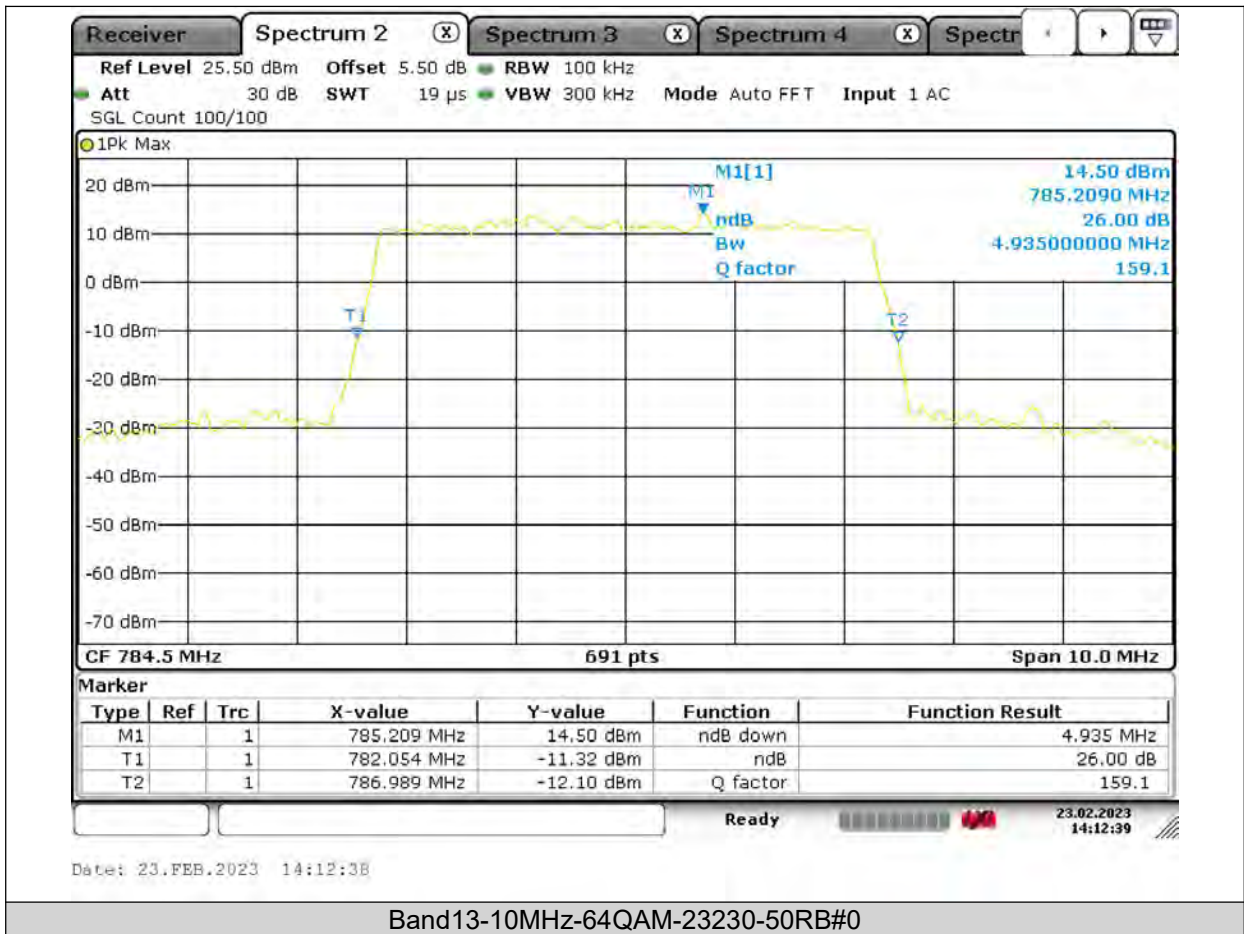
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BUREAU VERITAS

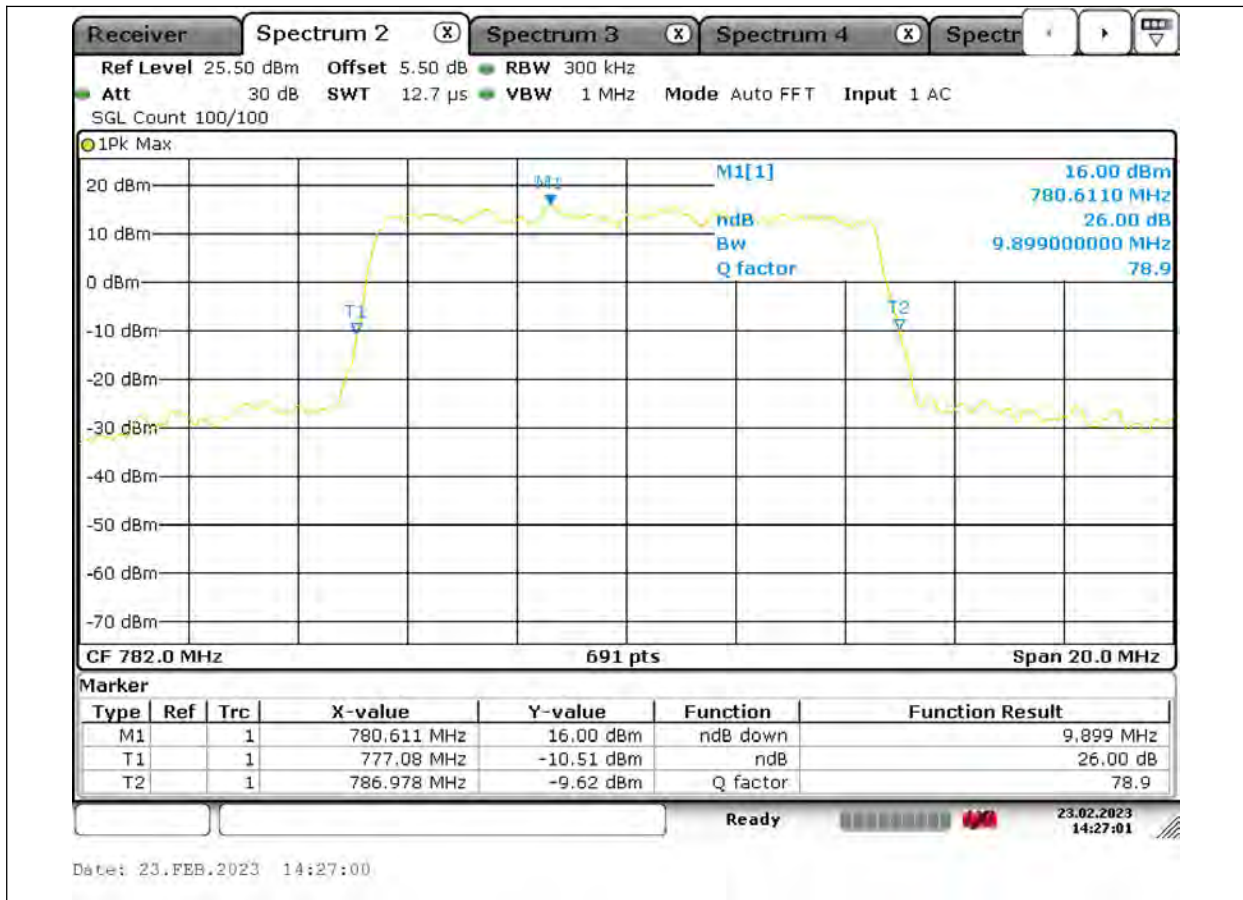
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03





Test Report No.: PSU-QSU2308280414RF03

## BAND EDGE

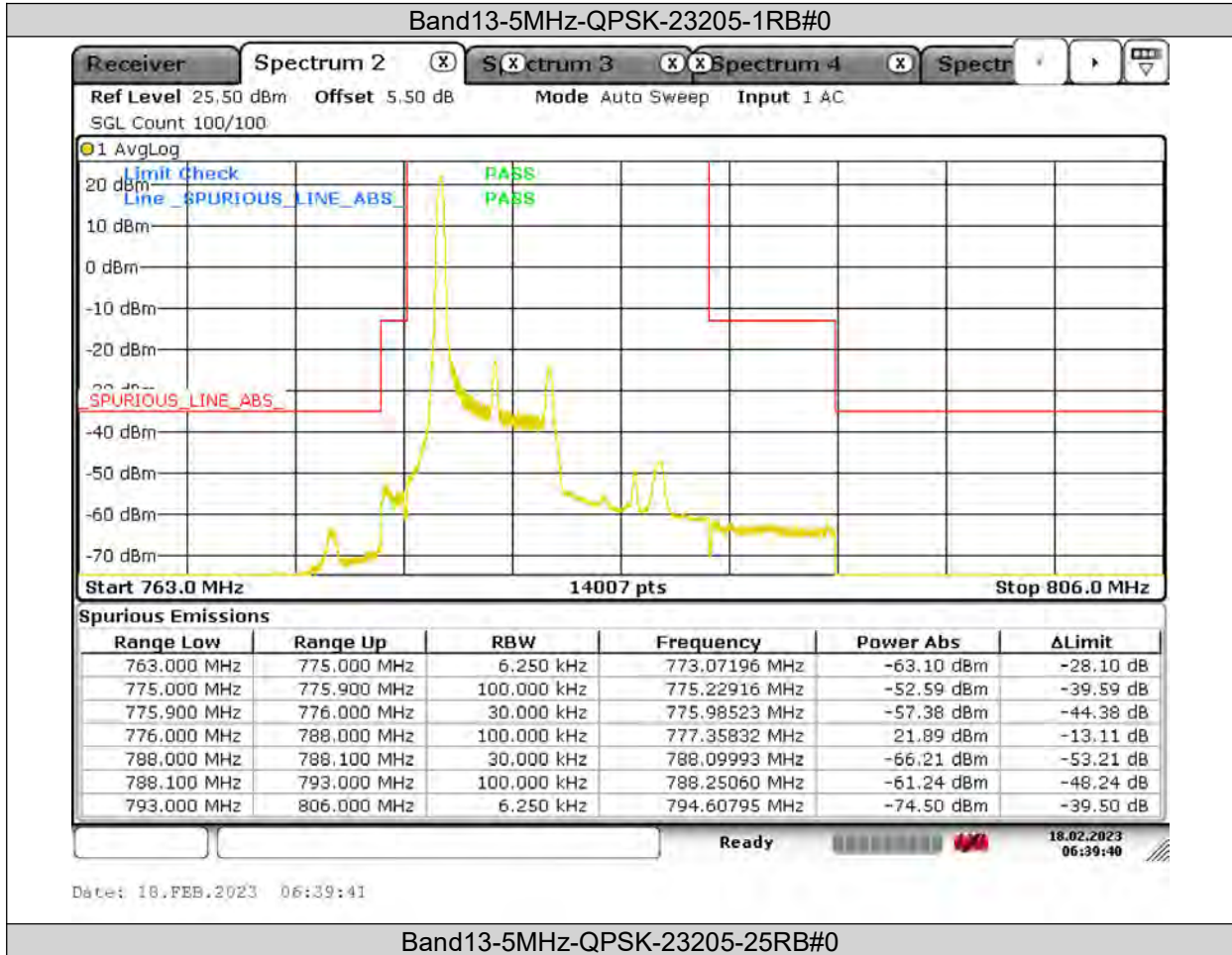
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-52.59	PASS
Band13	5MHz	QPSK	23205	25RB#0	-36.88	PASS
Band13	5MHz	QPSK	23255	1RB#24	-50.28	PASS
Band13	5MHz	QPSK	23255	25RB#0	-37.86	PASS
Band13	5MHz	16QAM	23205	1RB#0	-53.09	PASS
Band13	5MHz	16QAM	23205	25RB#0	-36.47	PASS
Band13	5MHz	16QAM	23255	1RB#24	-51.8	PASS
Band13	5MHz	16QAM	23255	25RB#0	-37.69	PASS
Band13	10MHz	QPSK	23230	1RB#0	-53.39	PASS
Band13	10MHz	QPSK	23230	1RB#49	-52.4	PASS
Band13	10MHz	QPSK	23230	50RB#0	-38.2	PASS
Band13	10MHz	16QAM	23230	1RB#0	-54.94	PASS
Band13	10MHz	16QAM	23230	1RB#49	-53.44	PASS
Band13	10MHz	16QAM	23230	50RB#0	-38.32	PASS
Band13	5MHz	64QAM	23205	1RB#0	-53.04	PASS
Band13	5MHz	64QAM	23205	25RB#0	-37.37	PASS
Band13	5MHz	64QAM	23255	1RB#24	-55.47	PASS
Band13	5MHz	64QAM	23255	25RB#0	-39.18	PASS
Band13	10MHz	64QAM	23230	1RB#0	-58.12	PASS
Band13	10MHz	64QAM	23230	1RB#49	-57.38	PASS
Band13	10MHz	64QAM	23230	50RB#0	-39.49	PASS



Test Report No.: PSU-QSU2308280414RF03

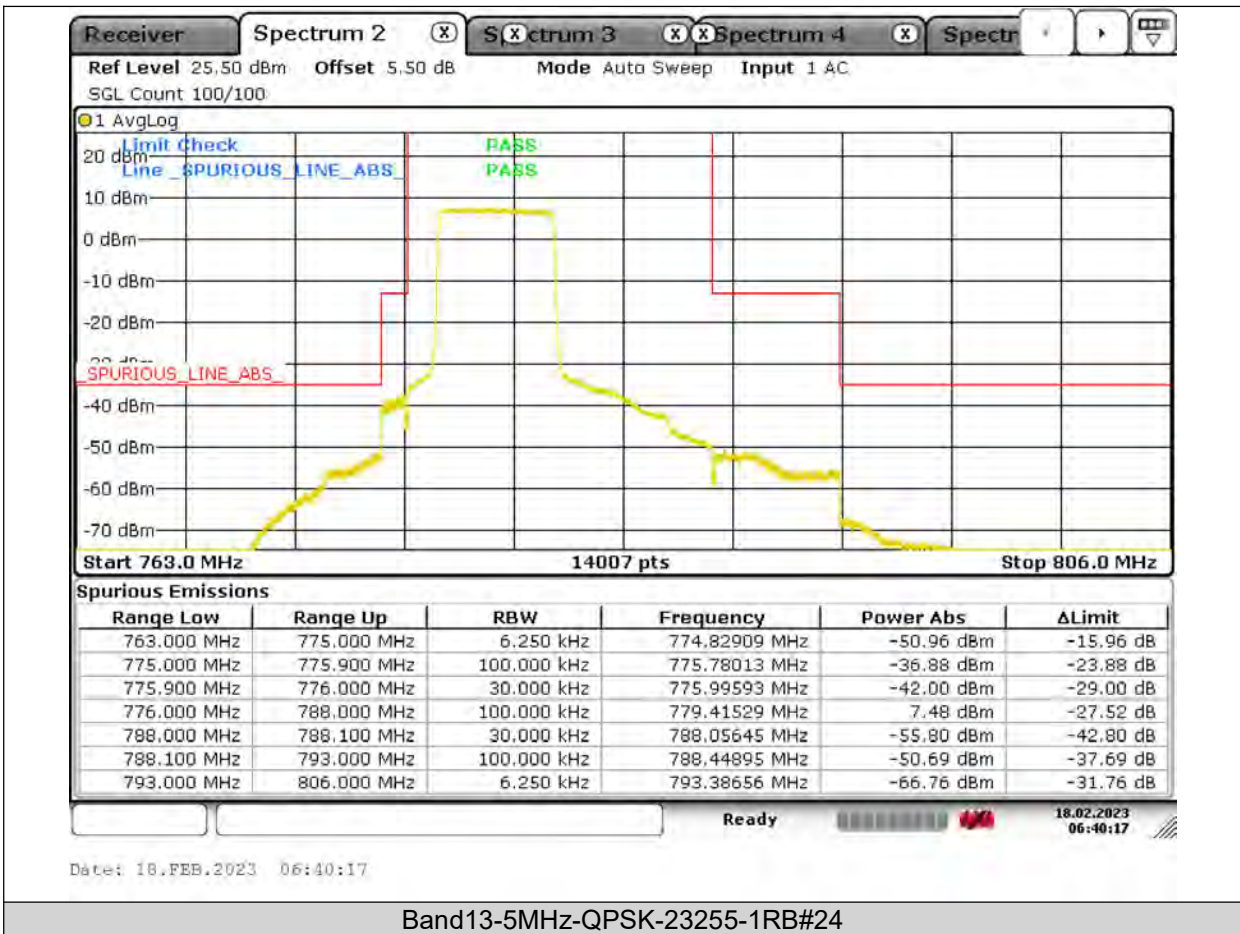
### Test Graphs





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03

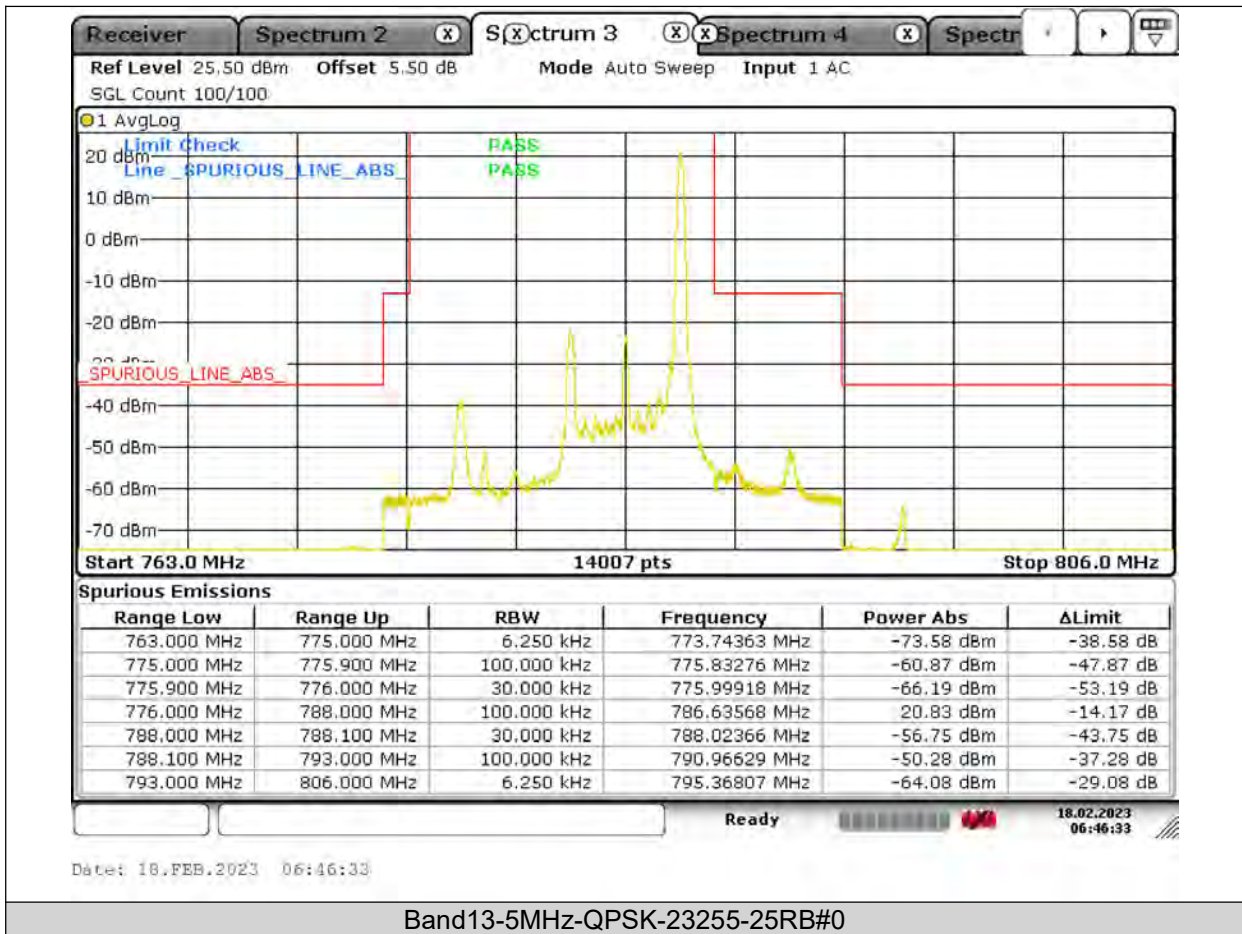






BUREAU  
VERITAS

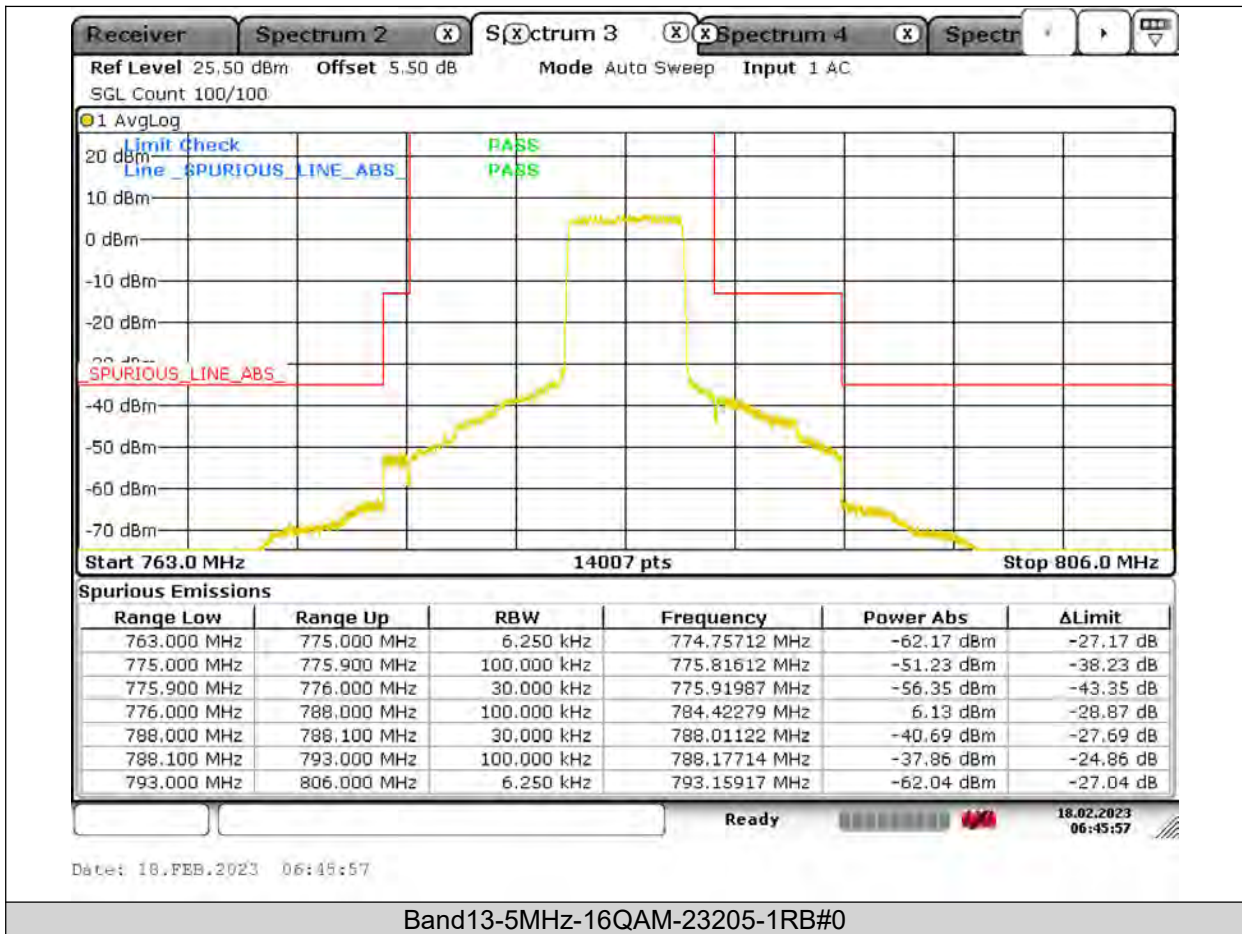
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VERITAS

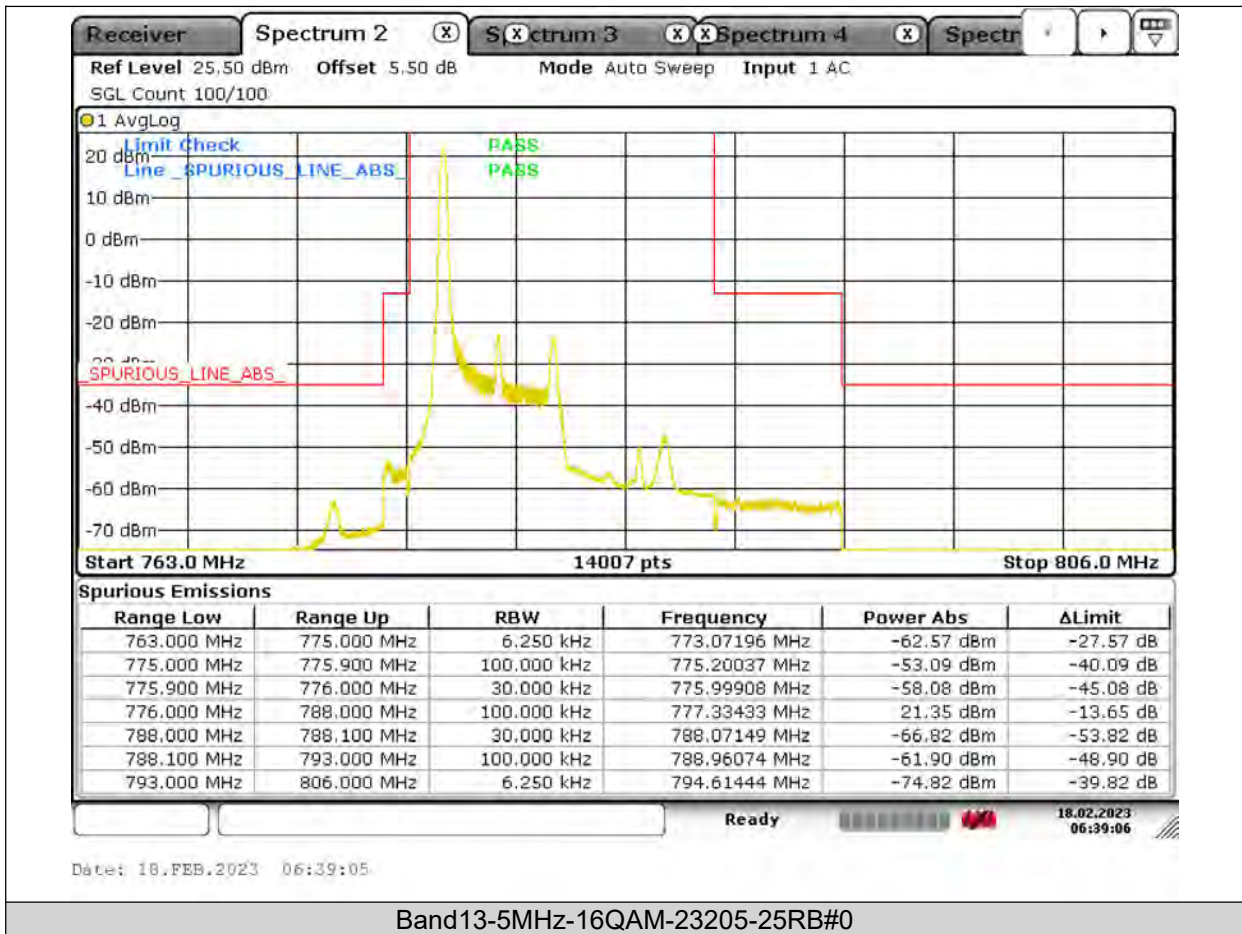
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

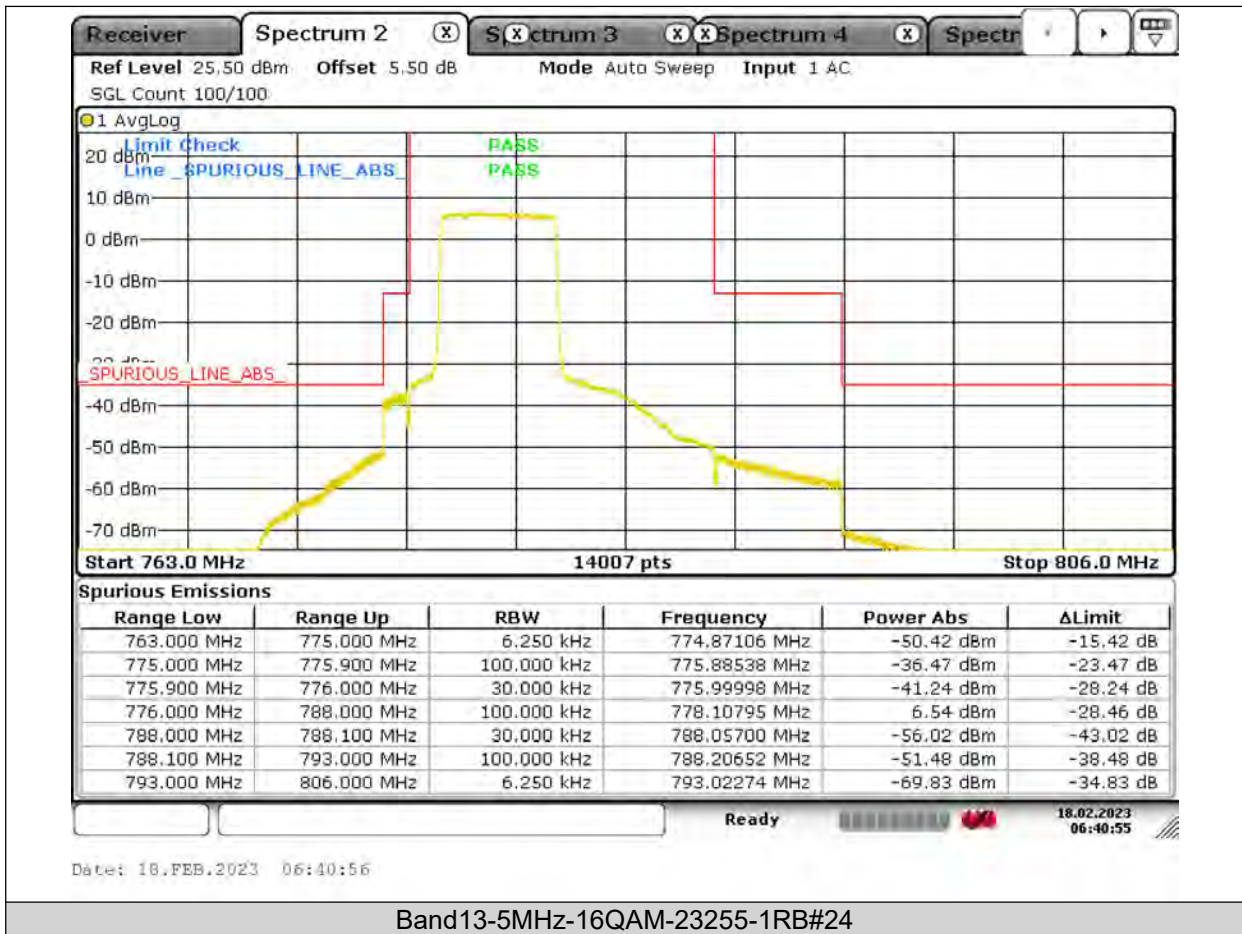
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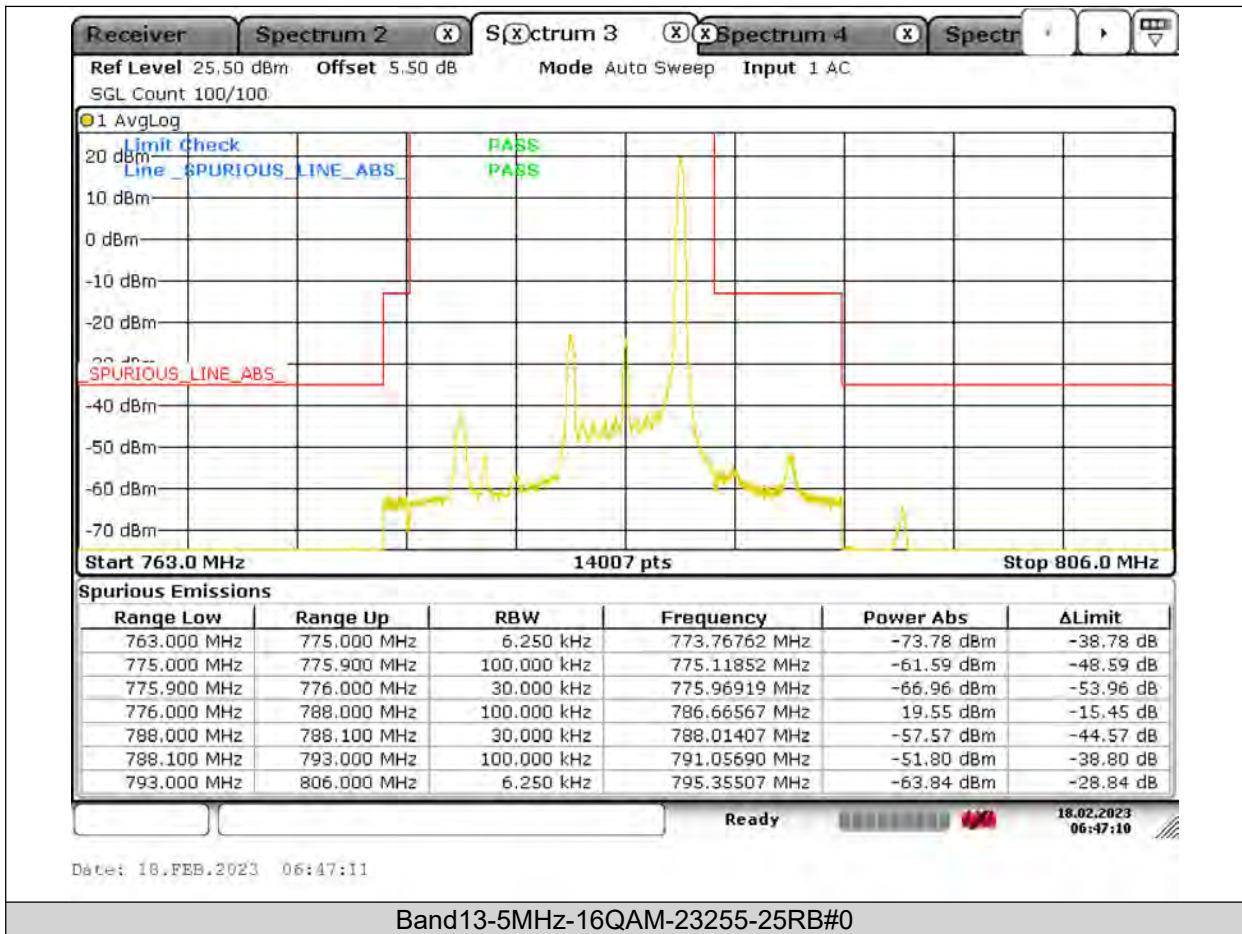
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BUREAU VERITAS

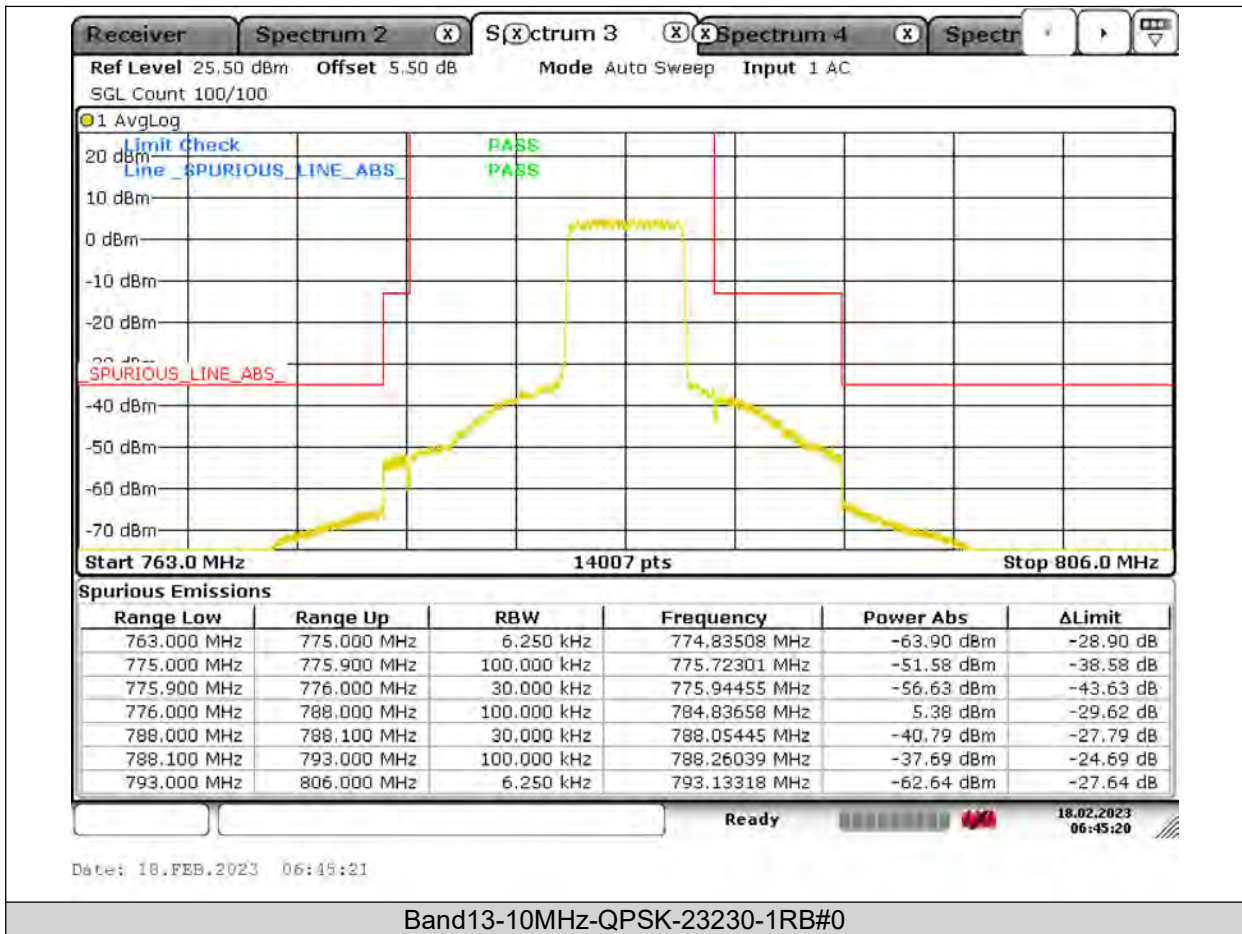
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BUREAU  
VERITAS

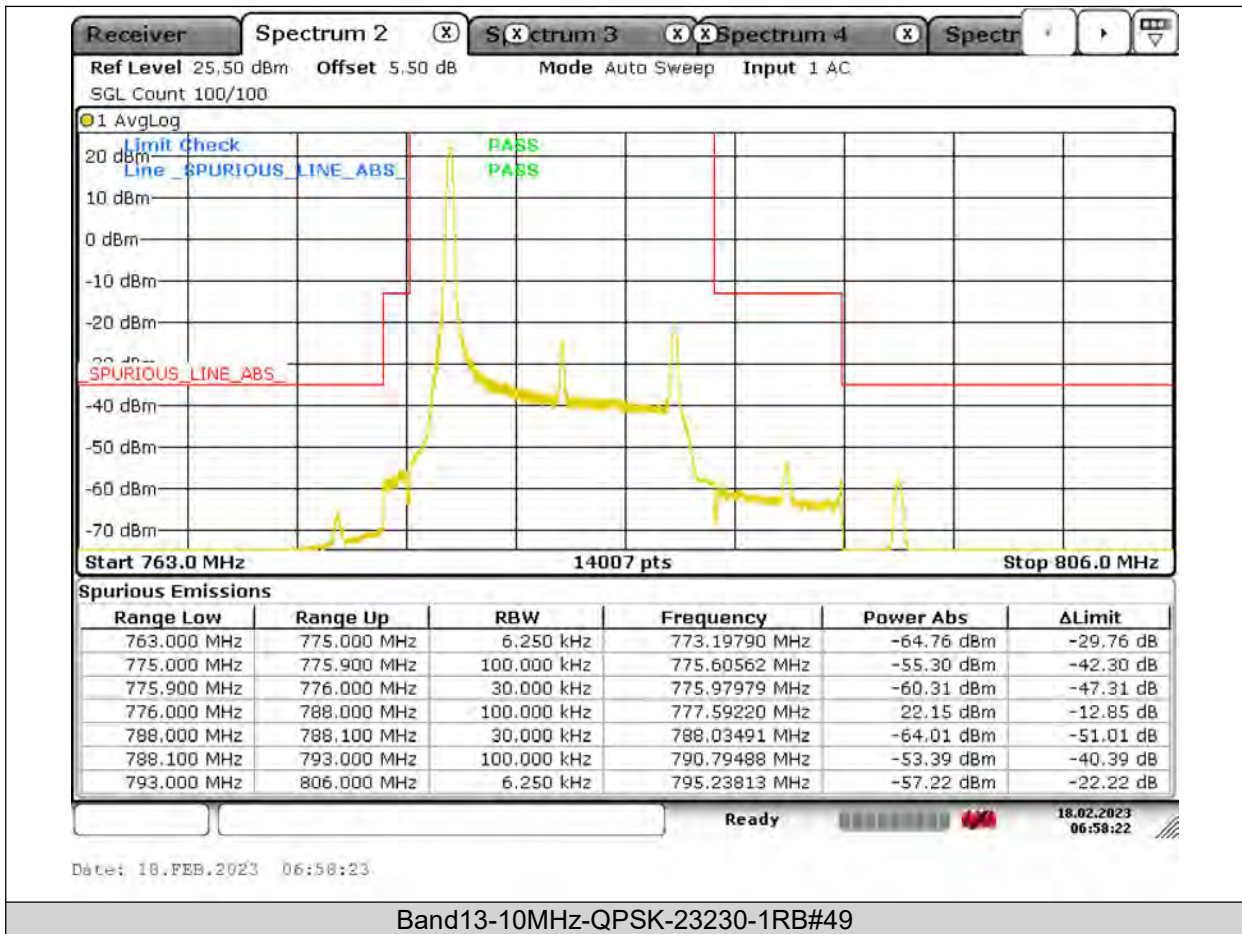
Test Report No.: PSU-QSU2308280414RF03





BUREAU  
VERITAS

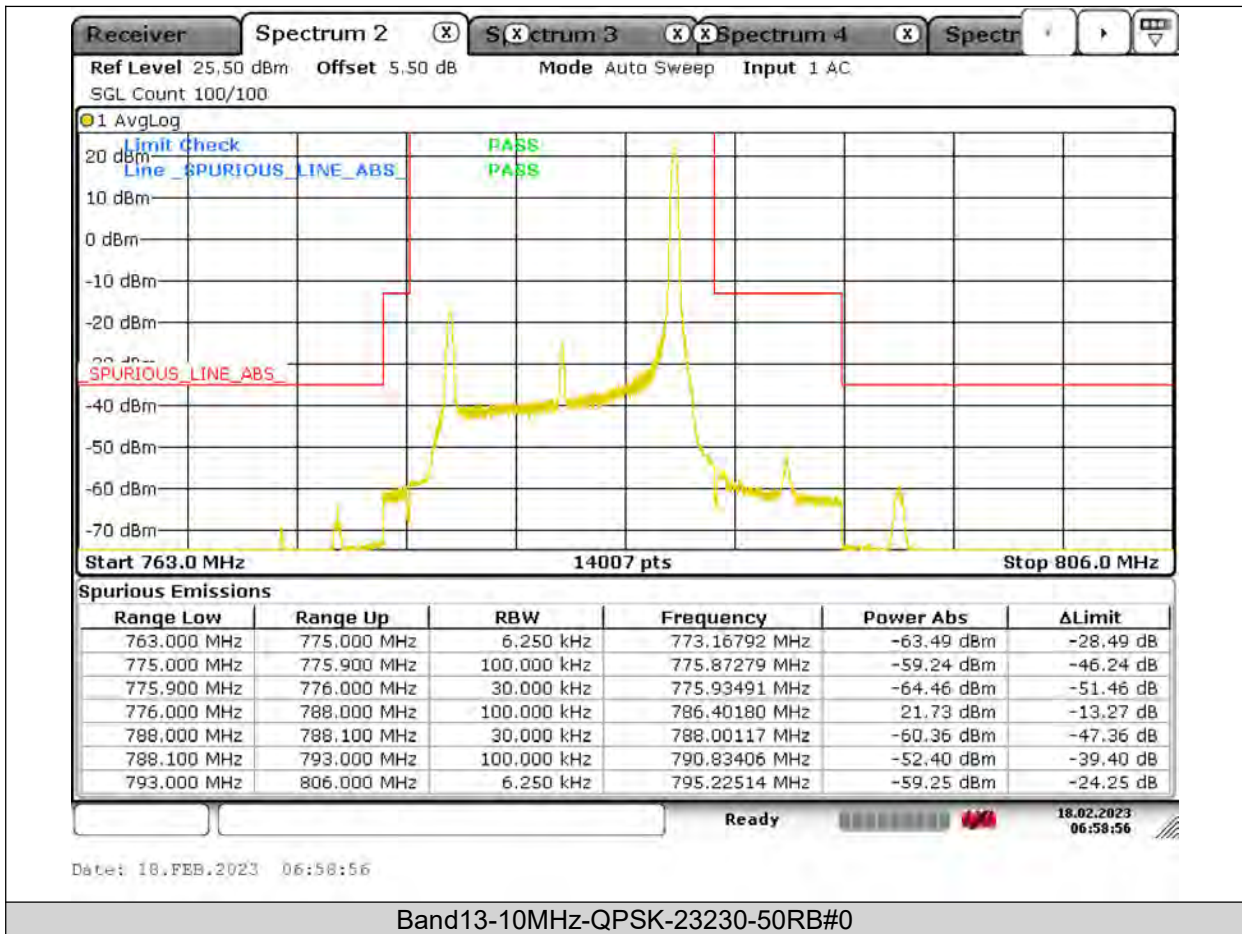
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03

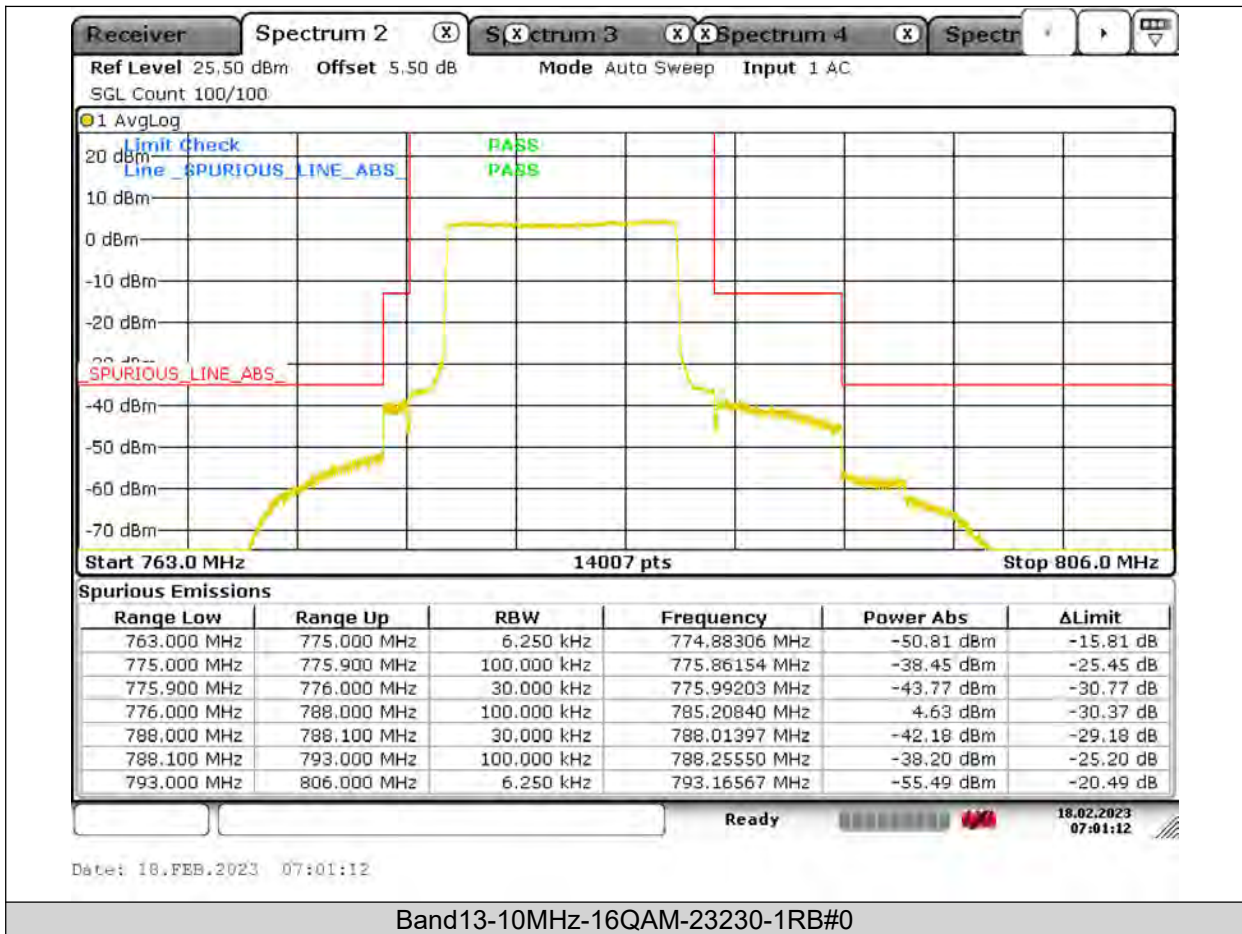






BUREAU  
VERITAS

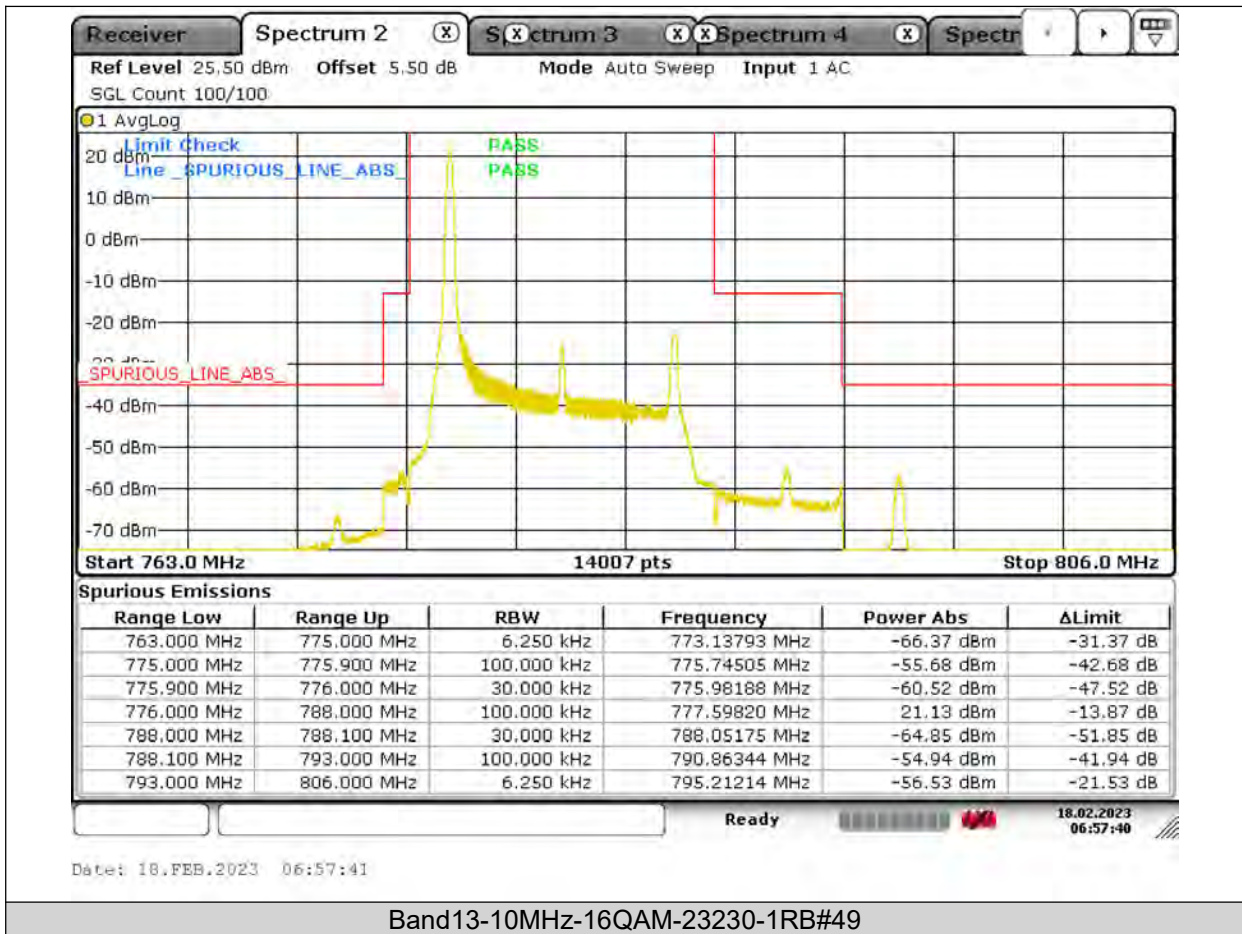
Test Report No.: PSU-QSU2308280414RF03





BUREAU  
VERITAS

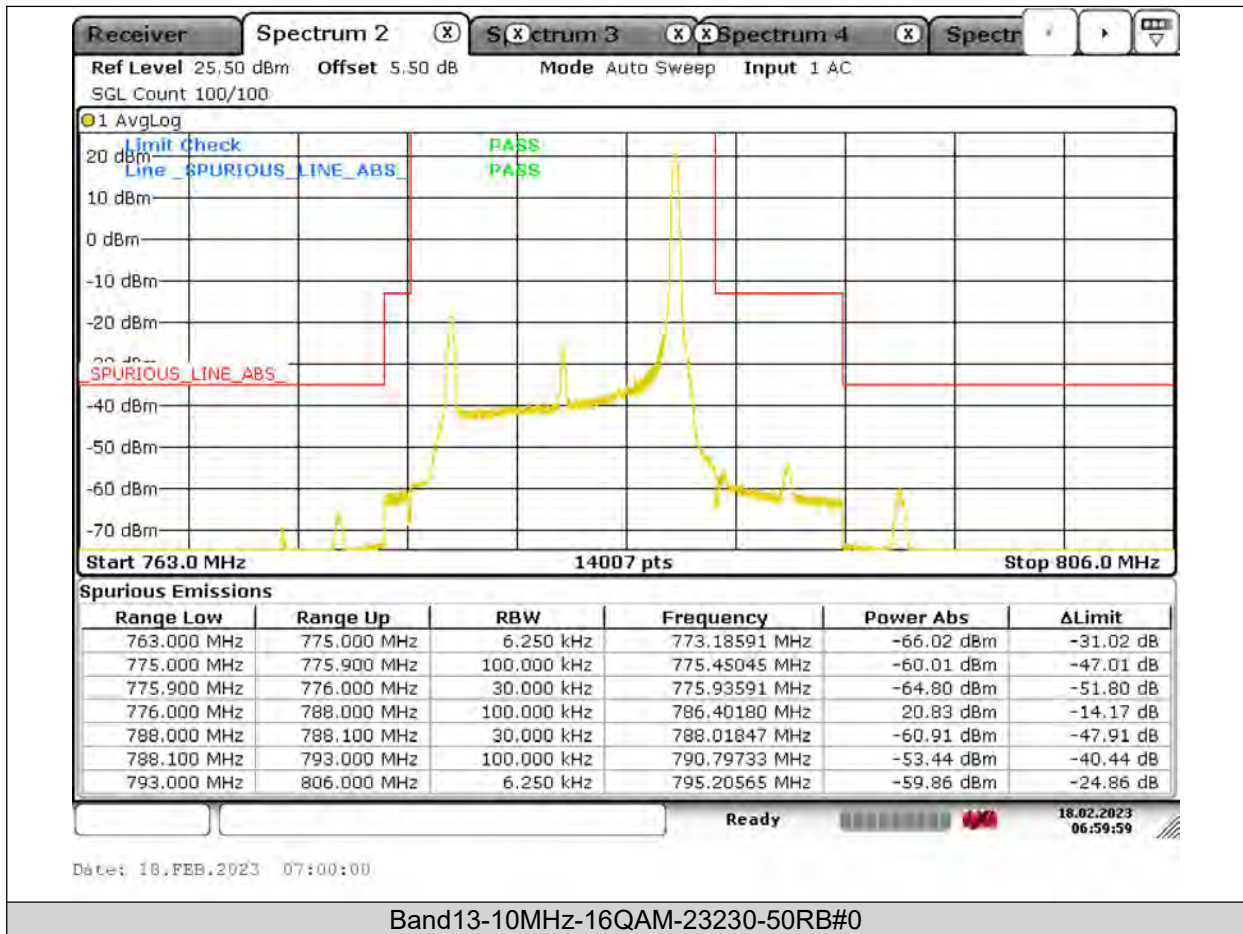
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

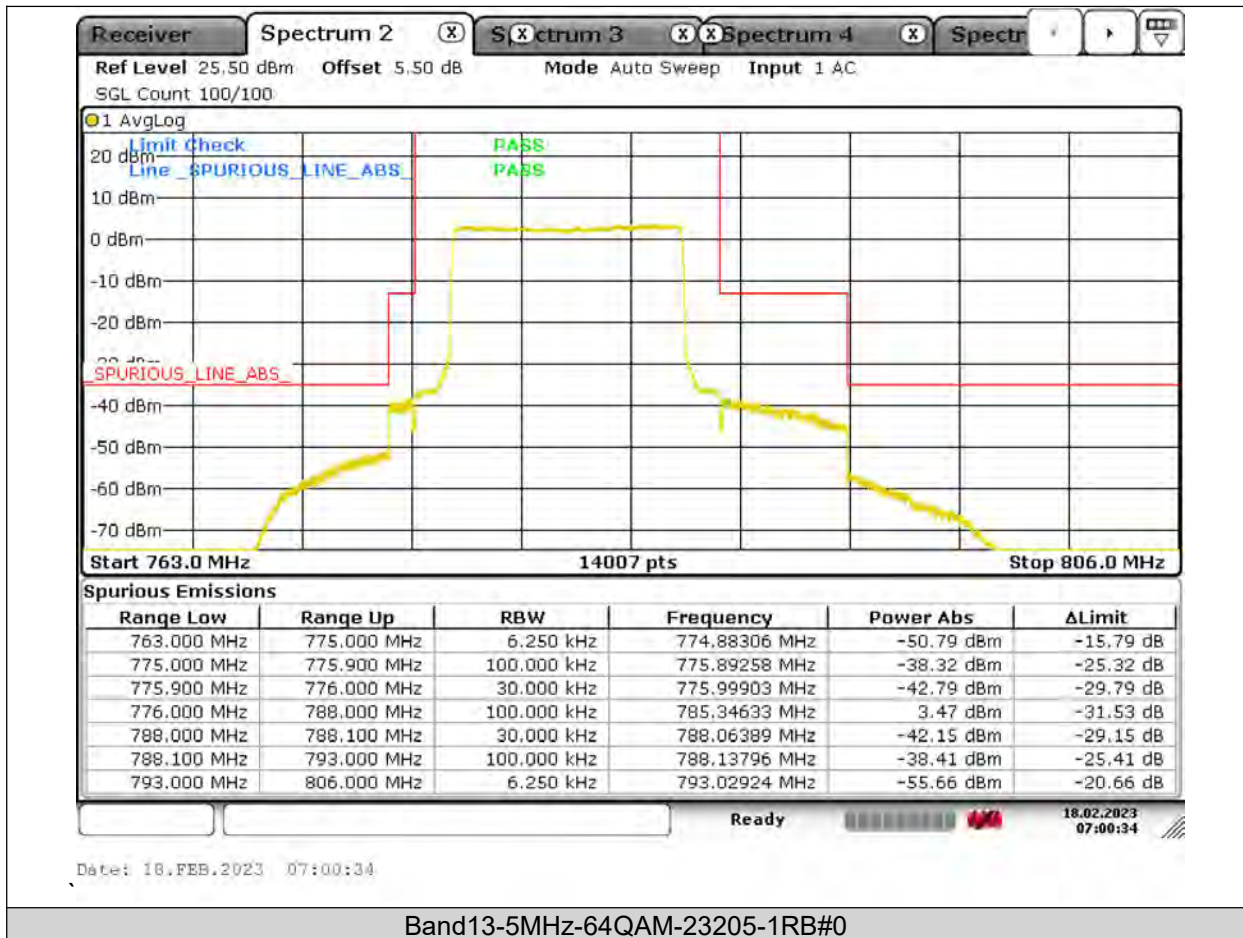
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

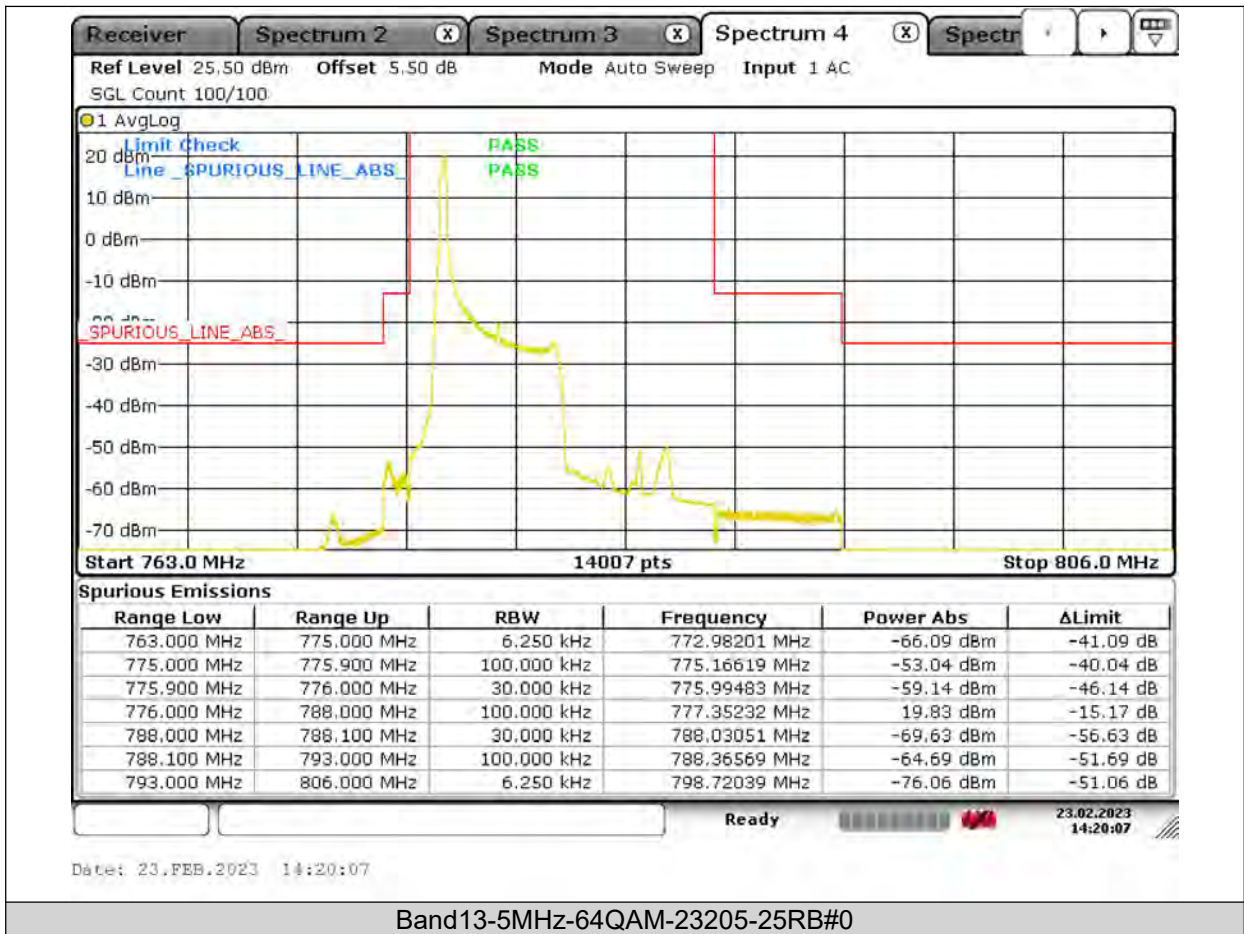
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VERITAS

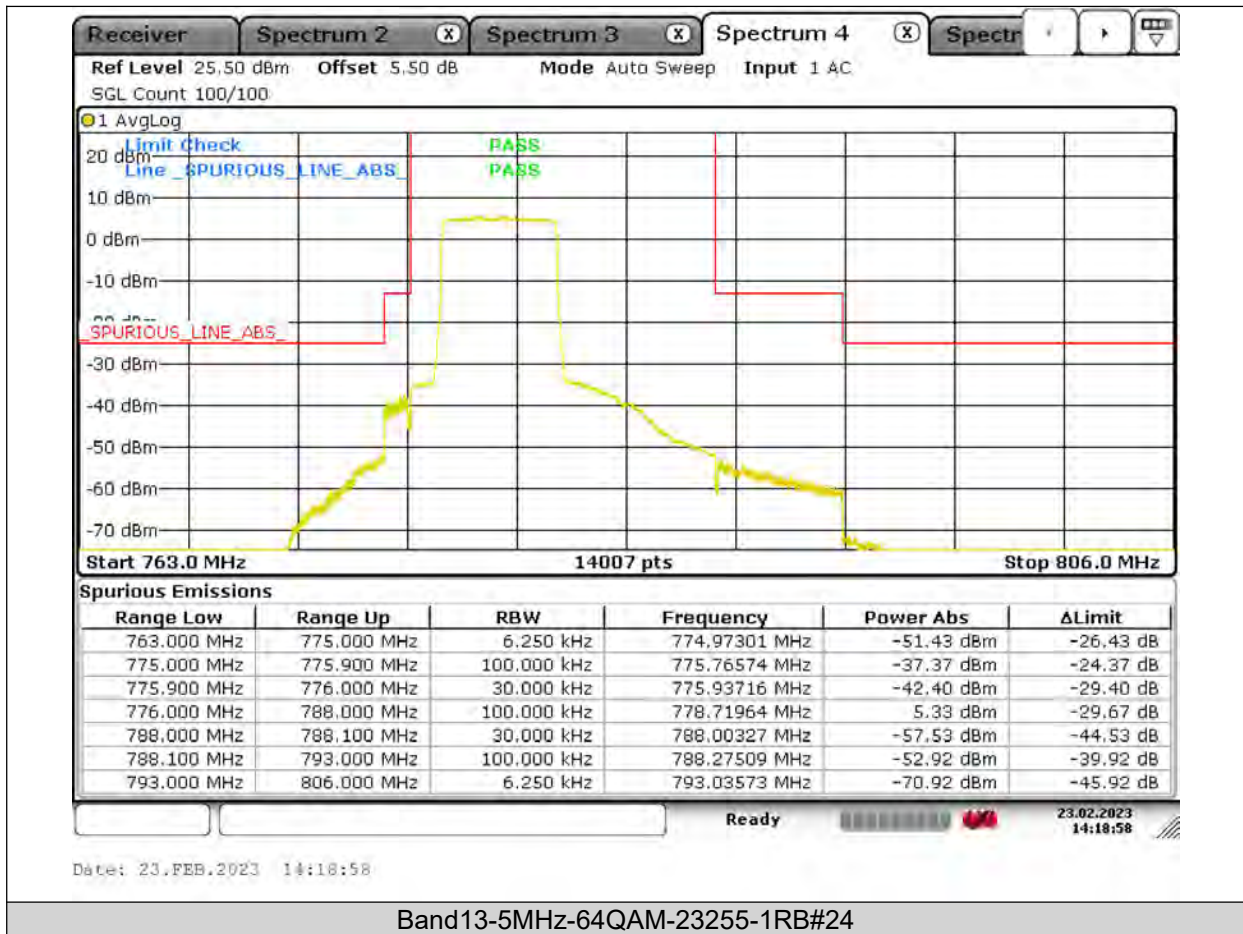
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VERITAS

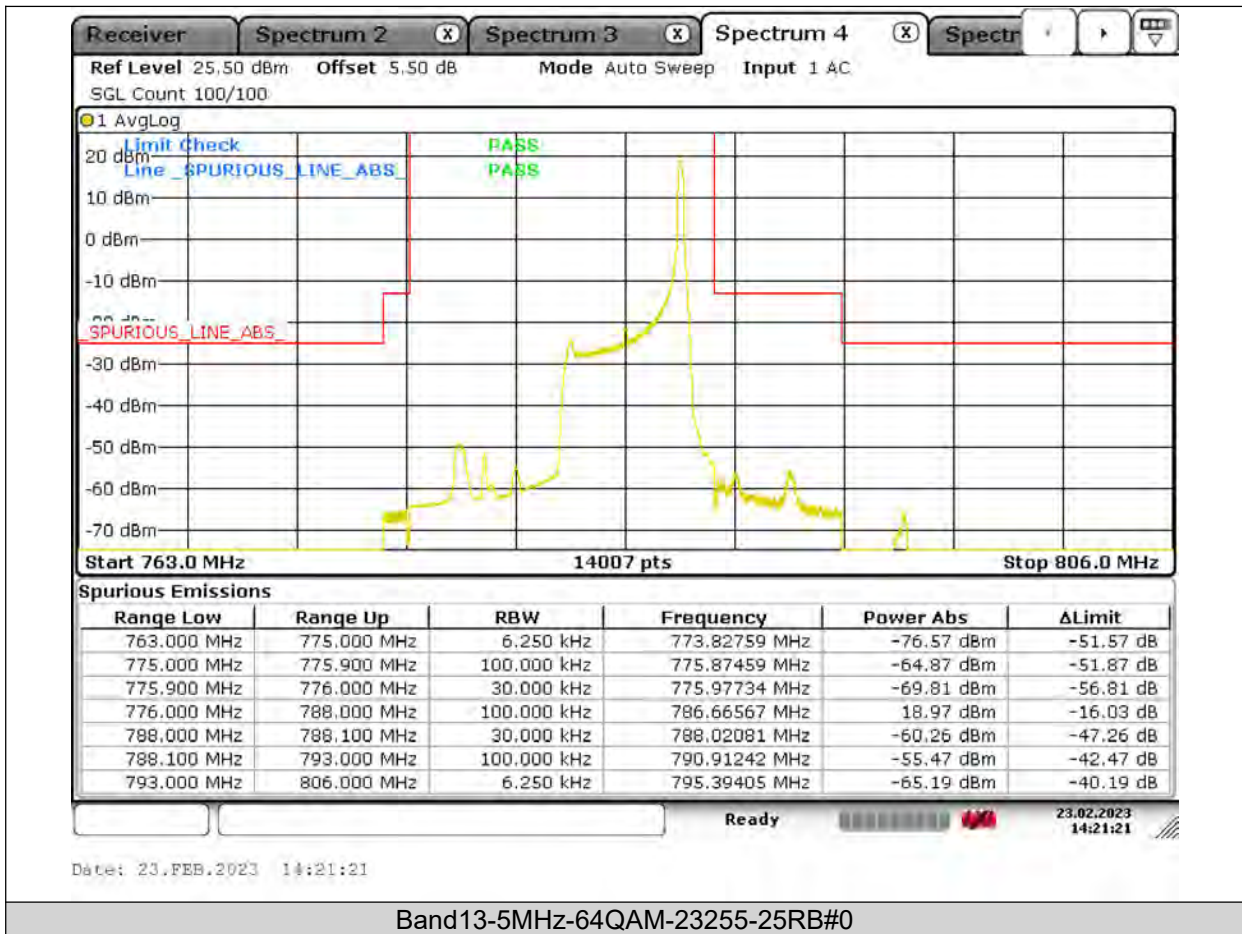
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

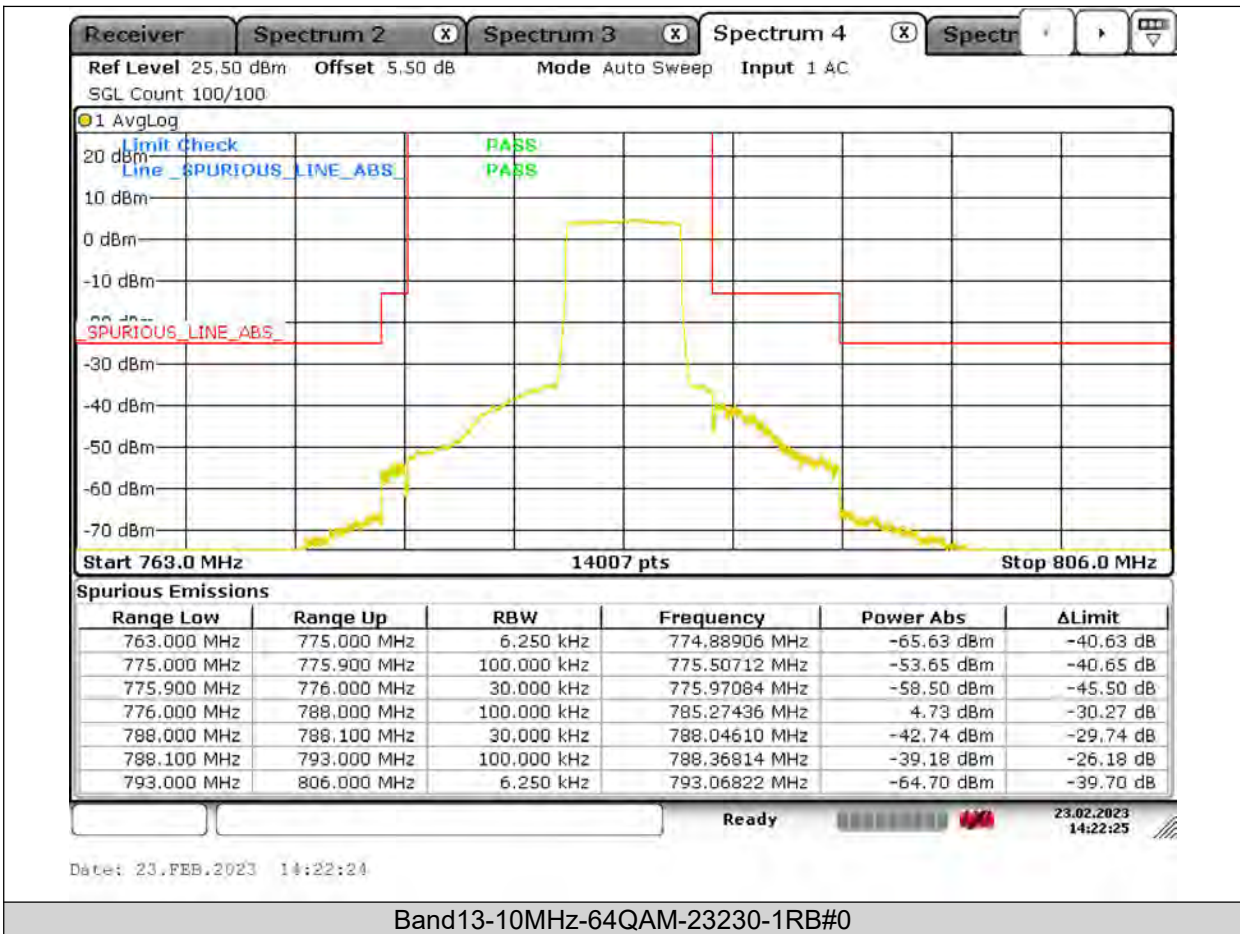
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03

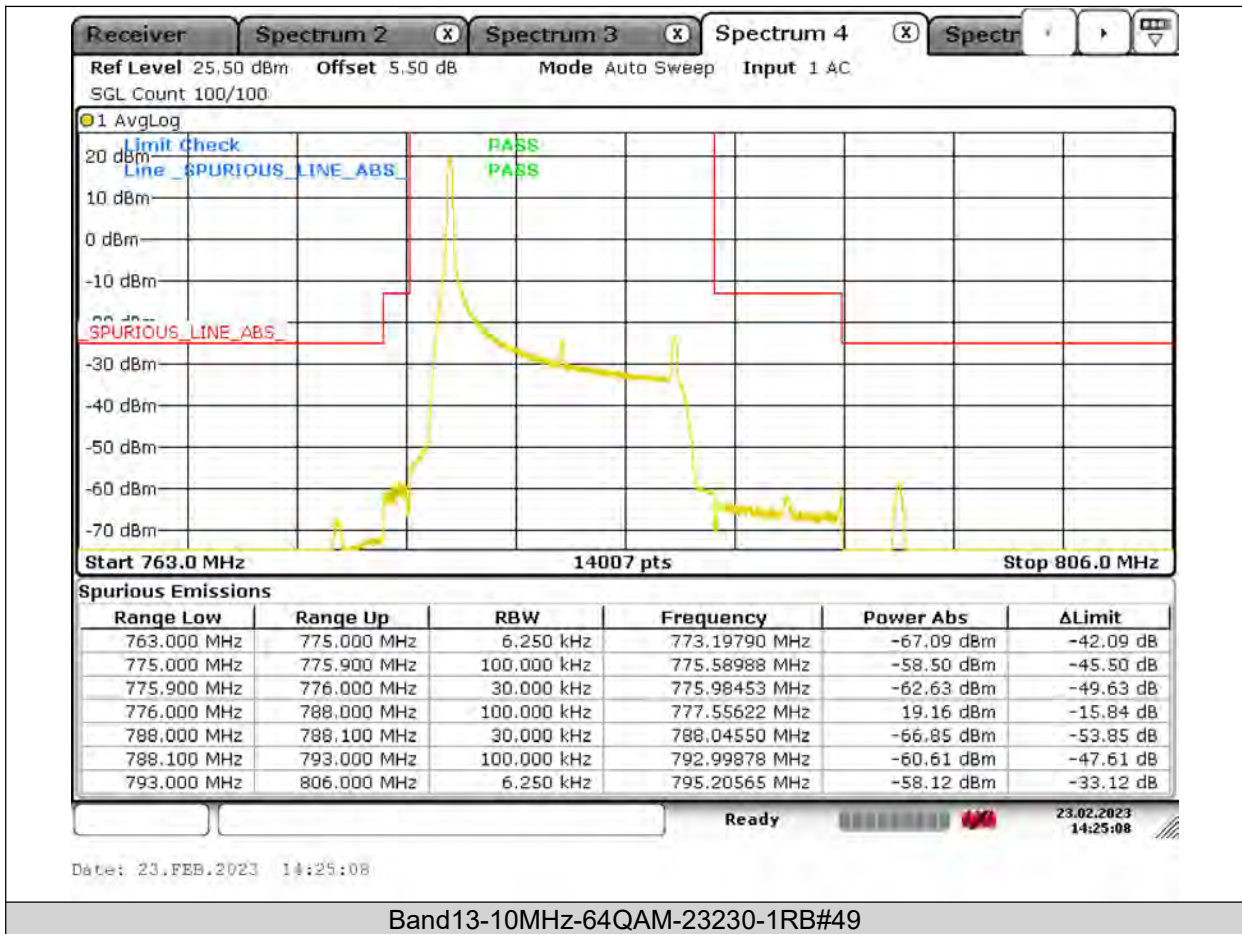






BUREAU VERITAS

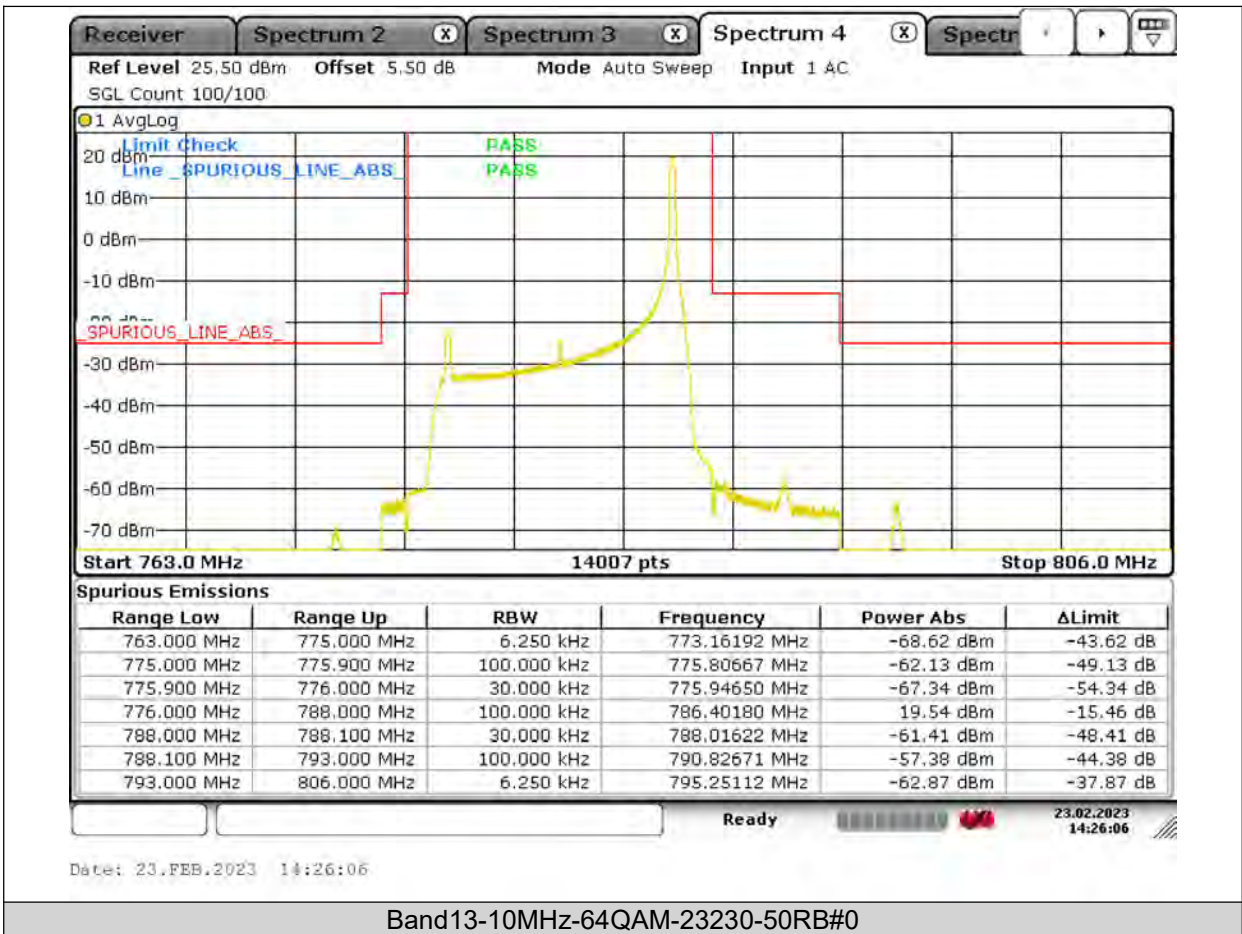
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

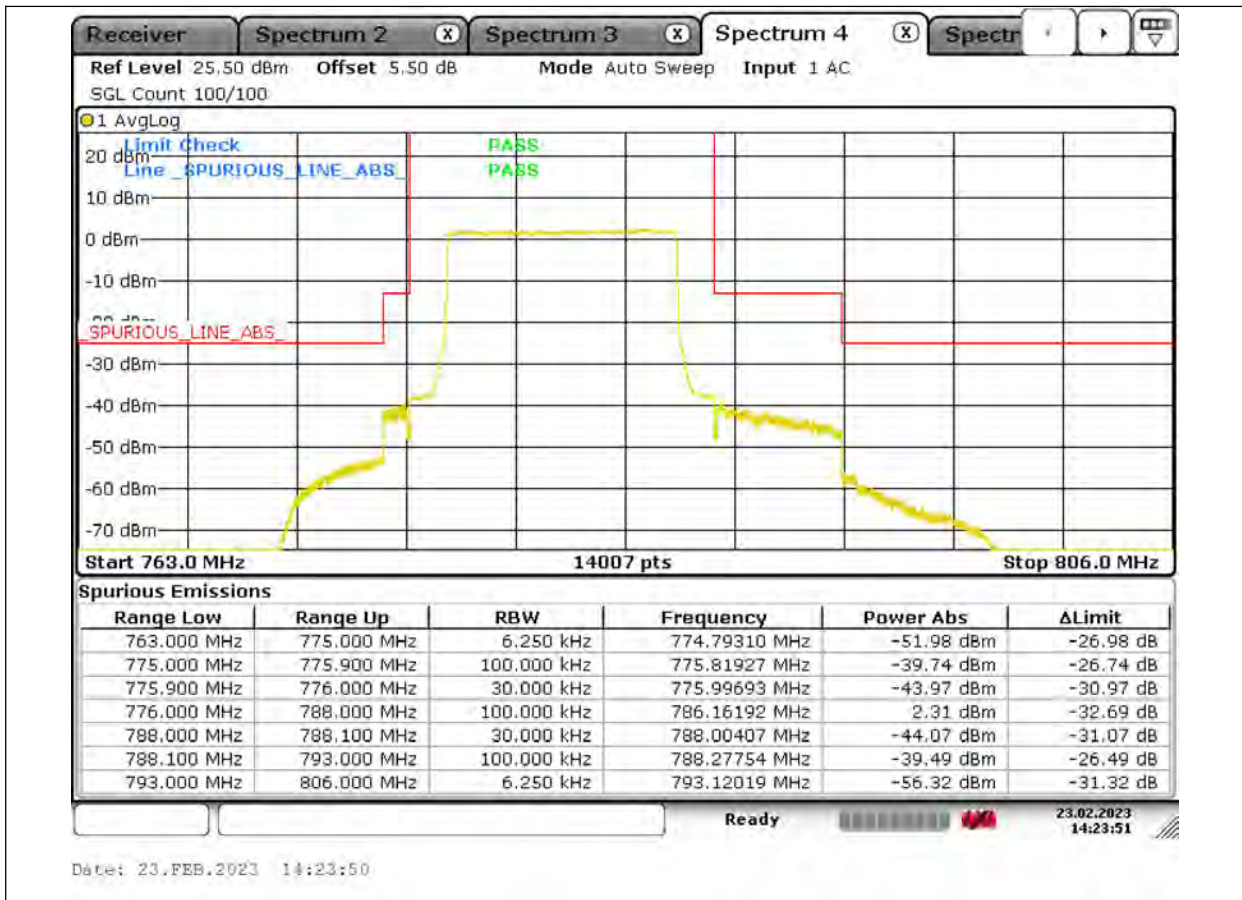
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03





Test Report No.: PSU-QSU2308280414RF03

## CONDUCTED SPURIOUS EMISSION

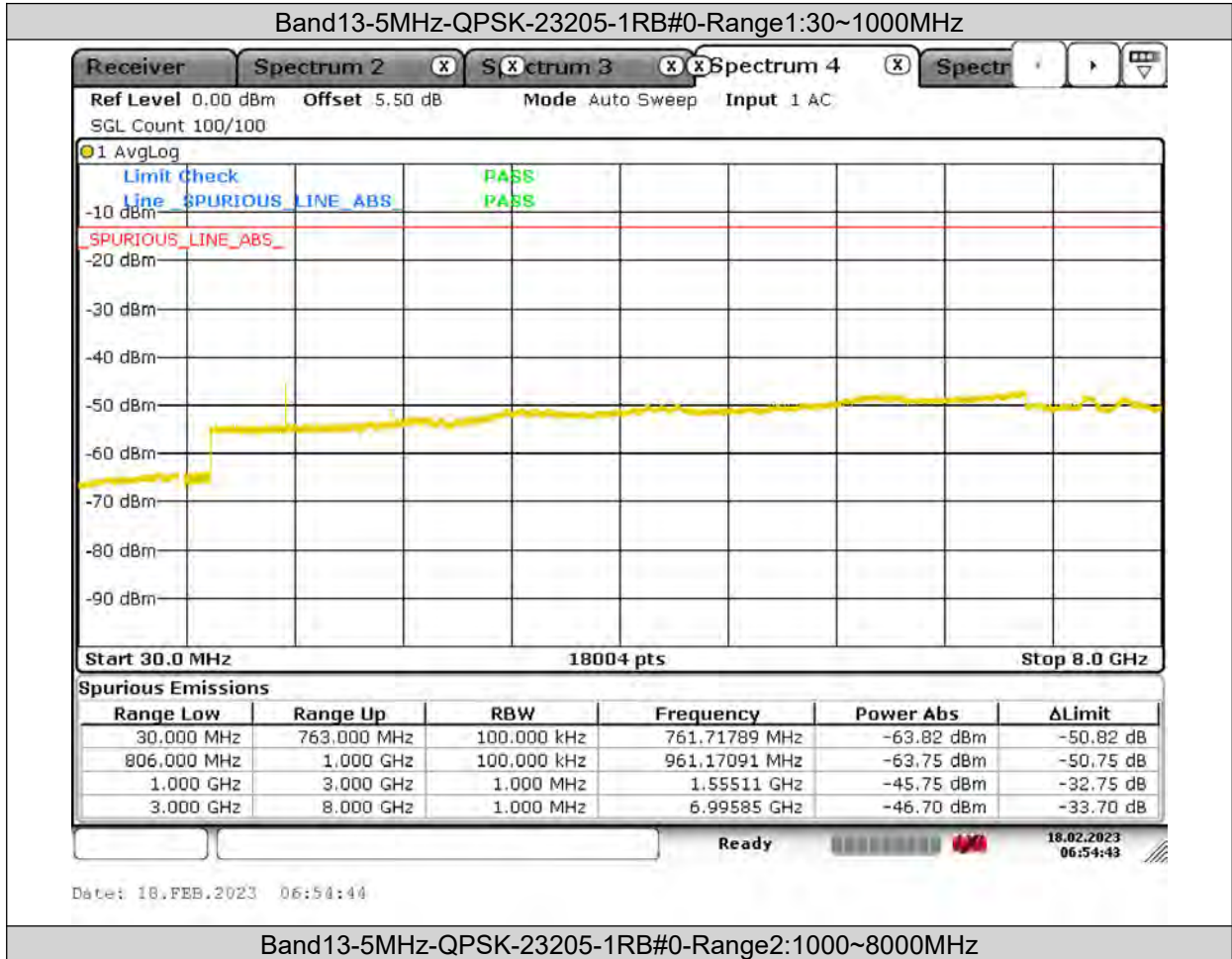
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-63.75	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~8000M Hz	-45.75	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-63.39	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~8000M Hz	-45.24	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-63.64	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~8000M Hz	-45.81	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-63.76	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~8000M Hz	-46.9	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-63.2	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~8000M Hz	-46.37	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-63.6	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~8000M Hz	-45.98	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-63.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~8000M Hz	-46	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-63.52	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~8000M Hz	-47.02	PASS
Band13	5MHz	64QAM	23205	1RB#0	Range1:30~1000MHz	-63.87	PASS
Band13	5MHz	64QAM	23205	1RB#0	Range2:1000~8000M Hz	-47.06	PASS
Band13	5MHz	64QAM	23230	1RB#0	Range1:30~1000MHz	-63.91	PASS
Band13	5MHz	64QAM	23230	1RB#0	Range2:1000~8000M Hz	-47.12	PASS
Band13	5MHz	64QAM	23255	1RB#0	Range1:30~1000MHz	-63.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	Range2:1000~8000M Hz	-47.23	PASS
Band13	10MHz	64QAM	23230	1RB#0	Range1:30~1000MHz	-64.07	PASS
Band13	10MHz	64QAM	23230	1RB#0	Range2:1000~8000M Hz	-47.18	PASS



Test Report No.: PSU-QSU2308280414RF03

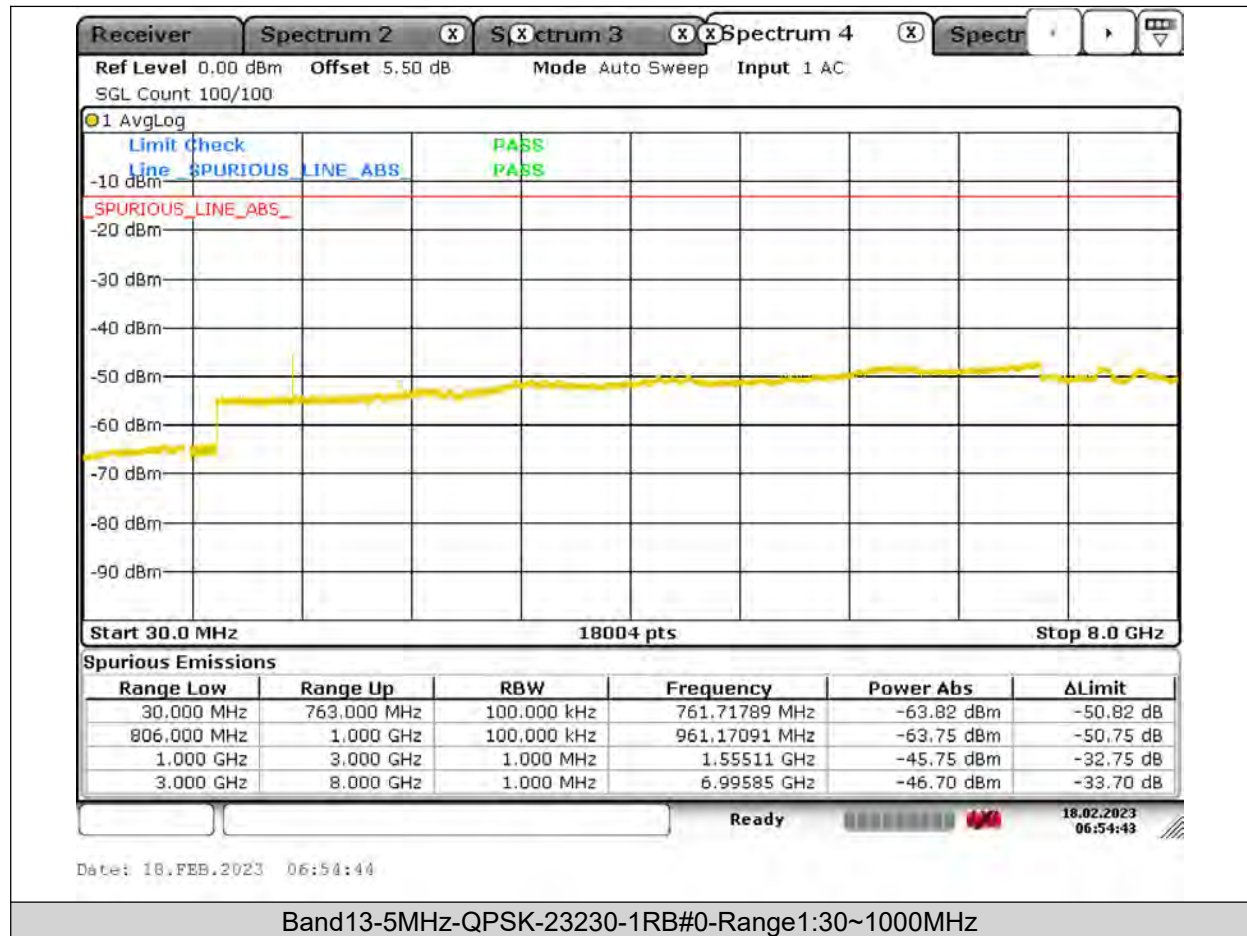
### Test Graphs





BUREAU  
VERITAS

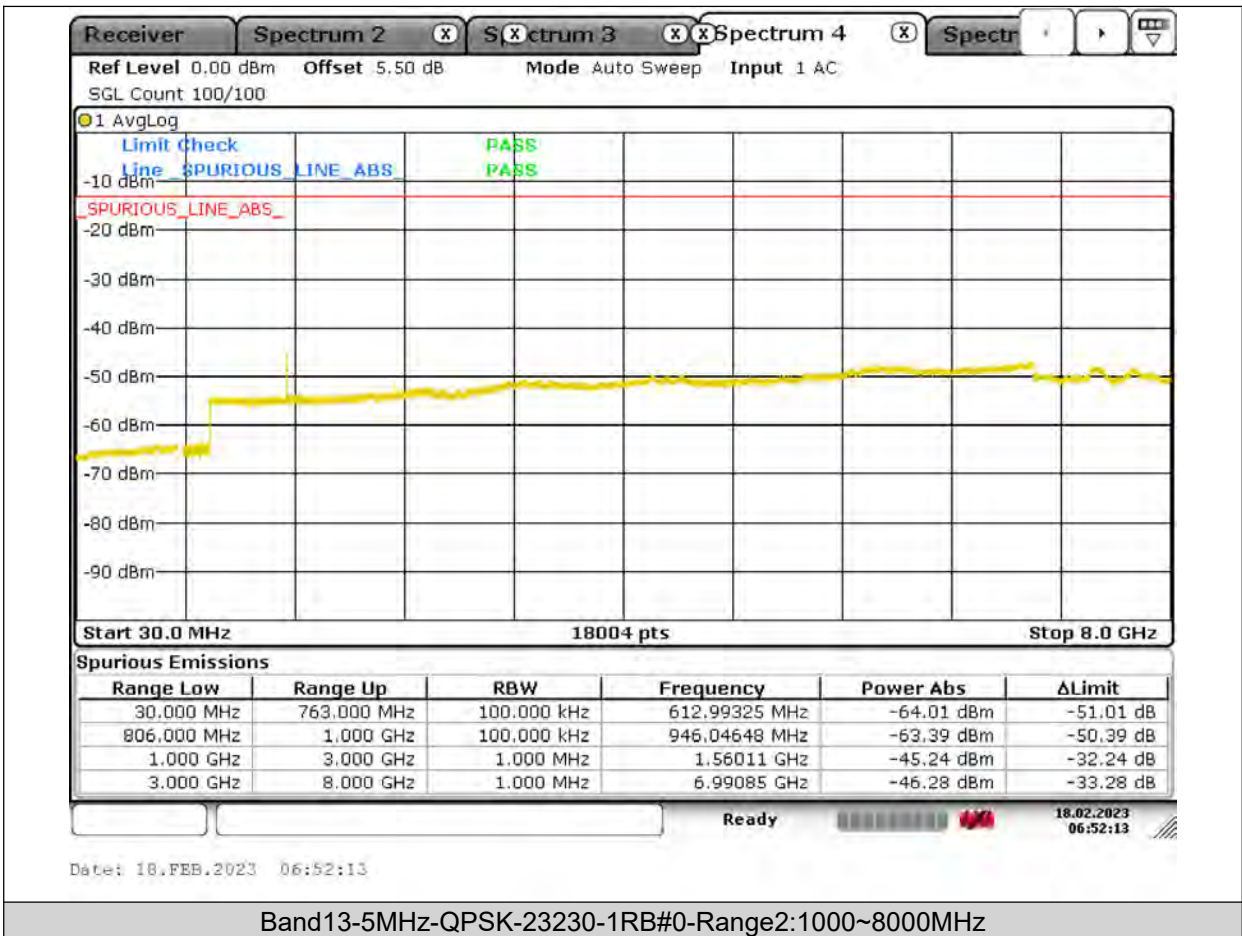
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

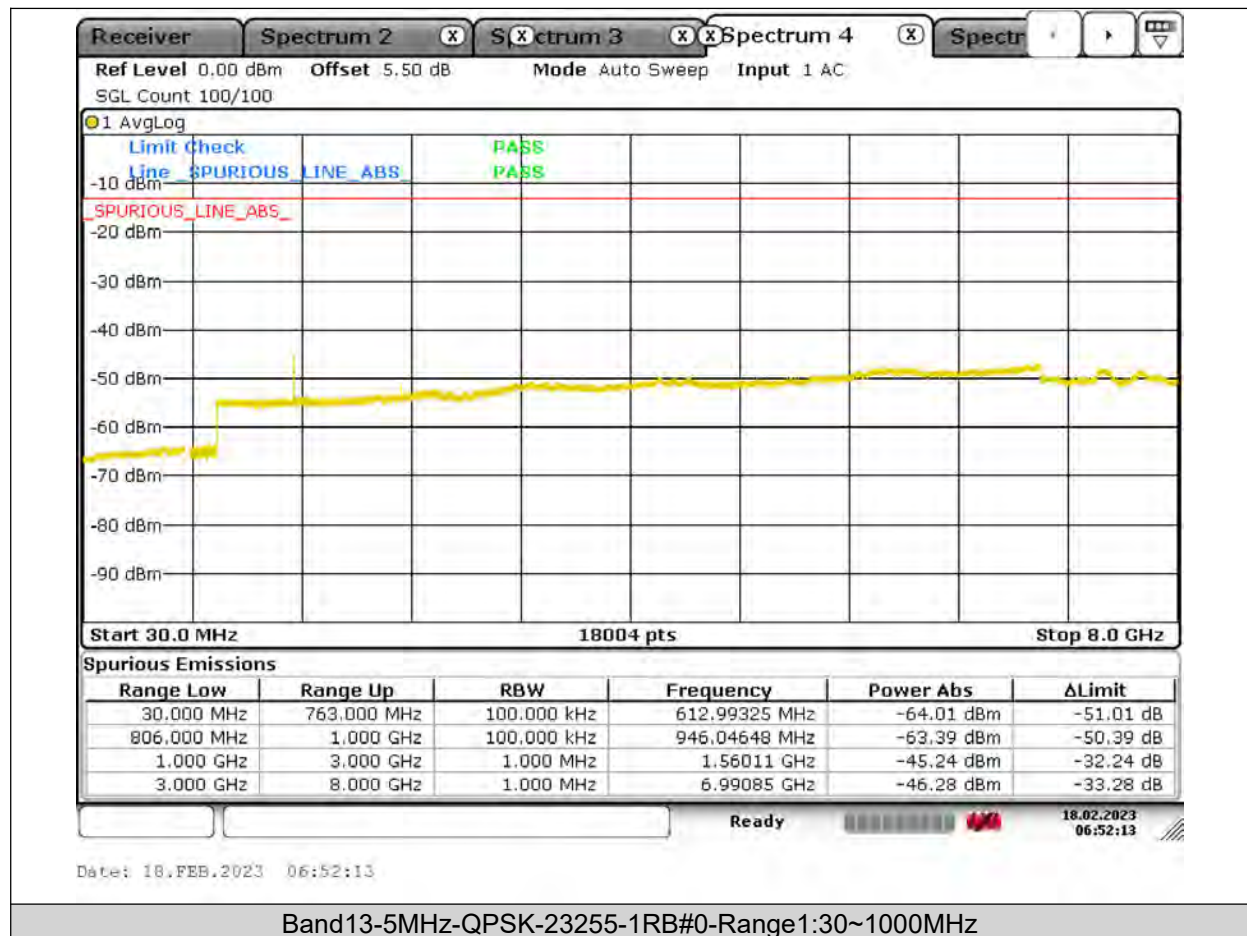
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

Test Report No.: PSU-QSU2308280414RF03

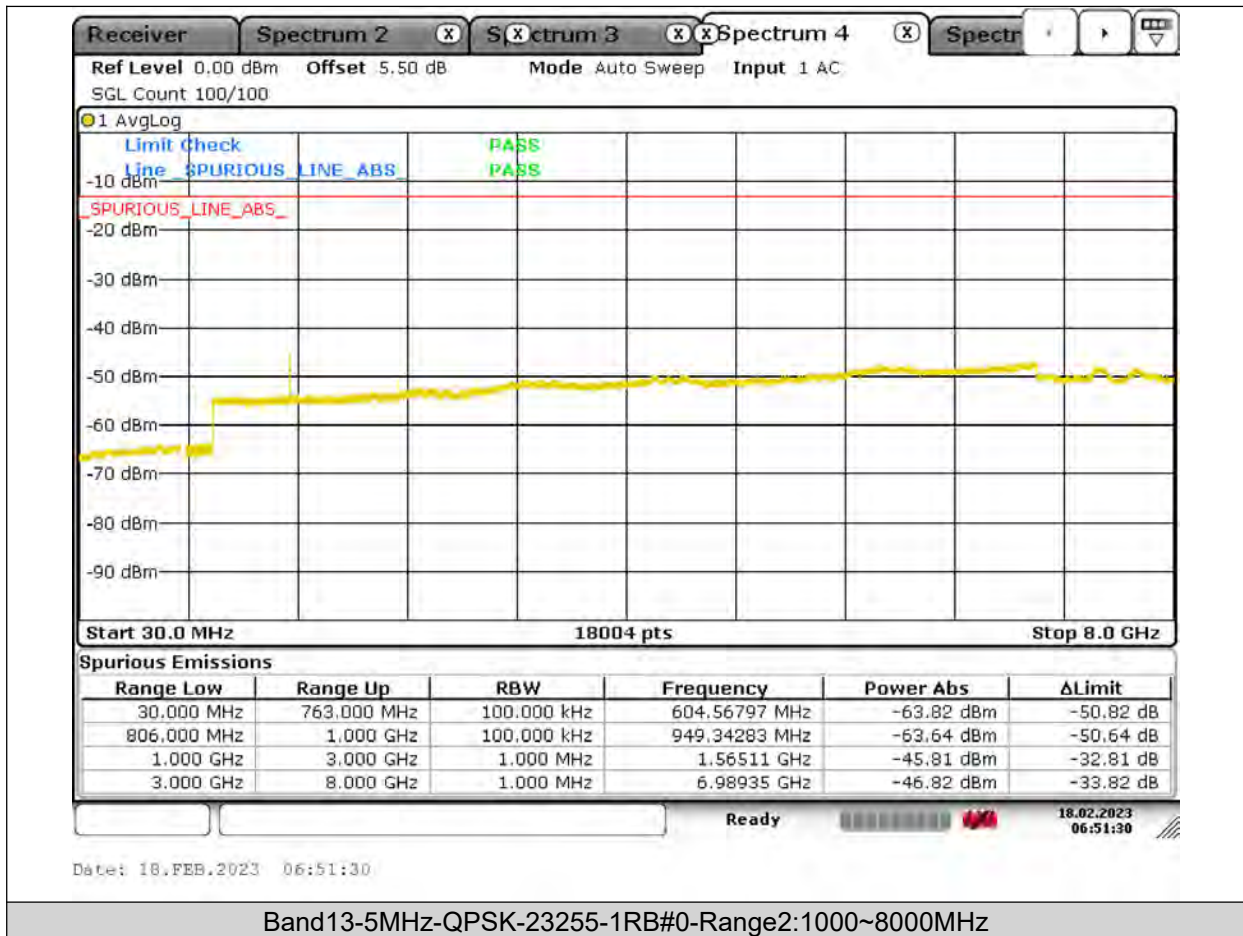






BUREAU  
VERITAS

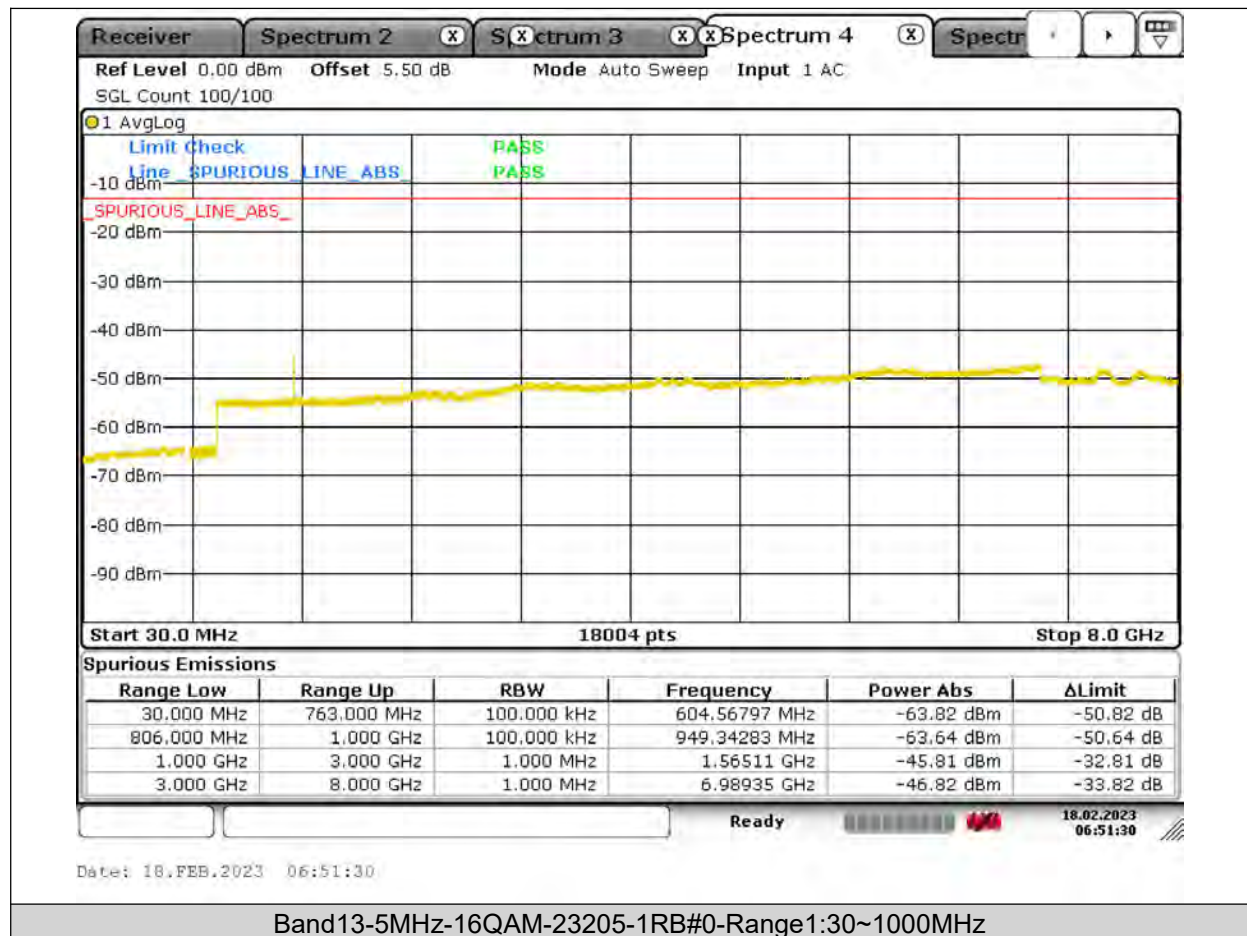
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

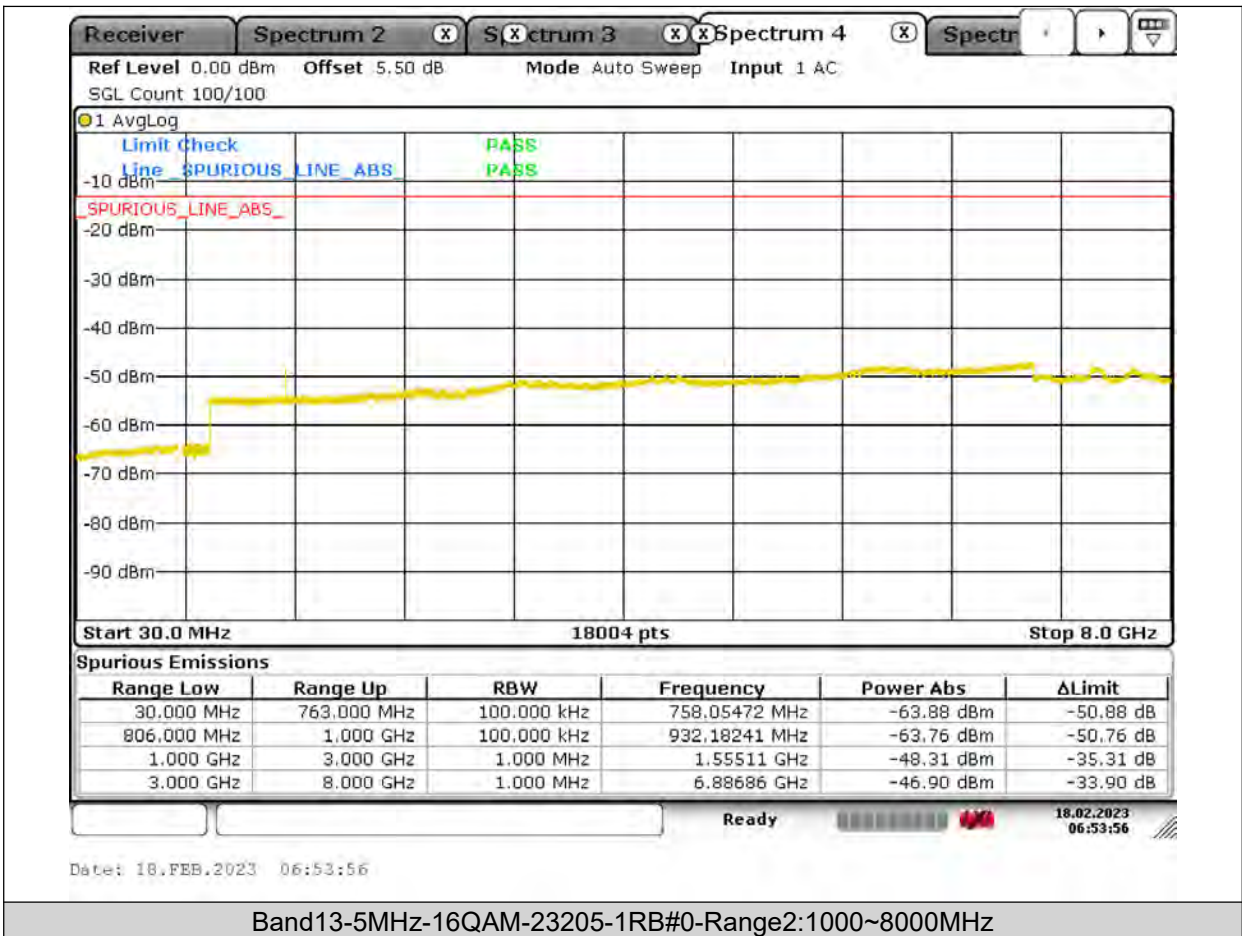
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BUREAU VERITAS

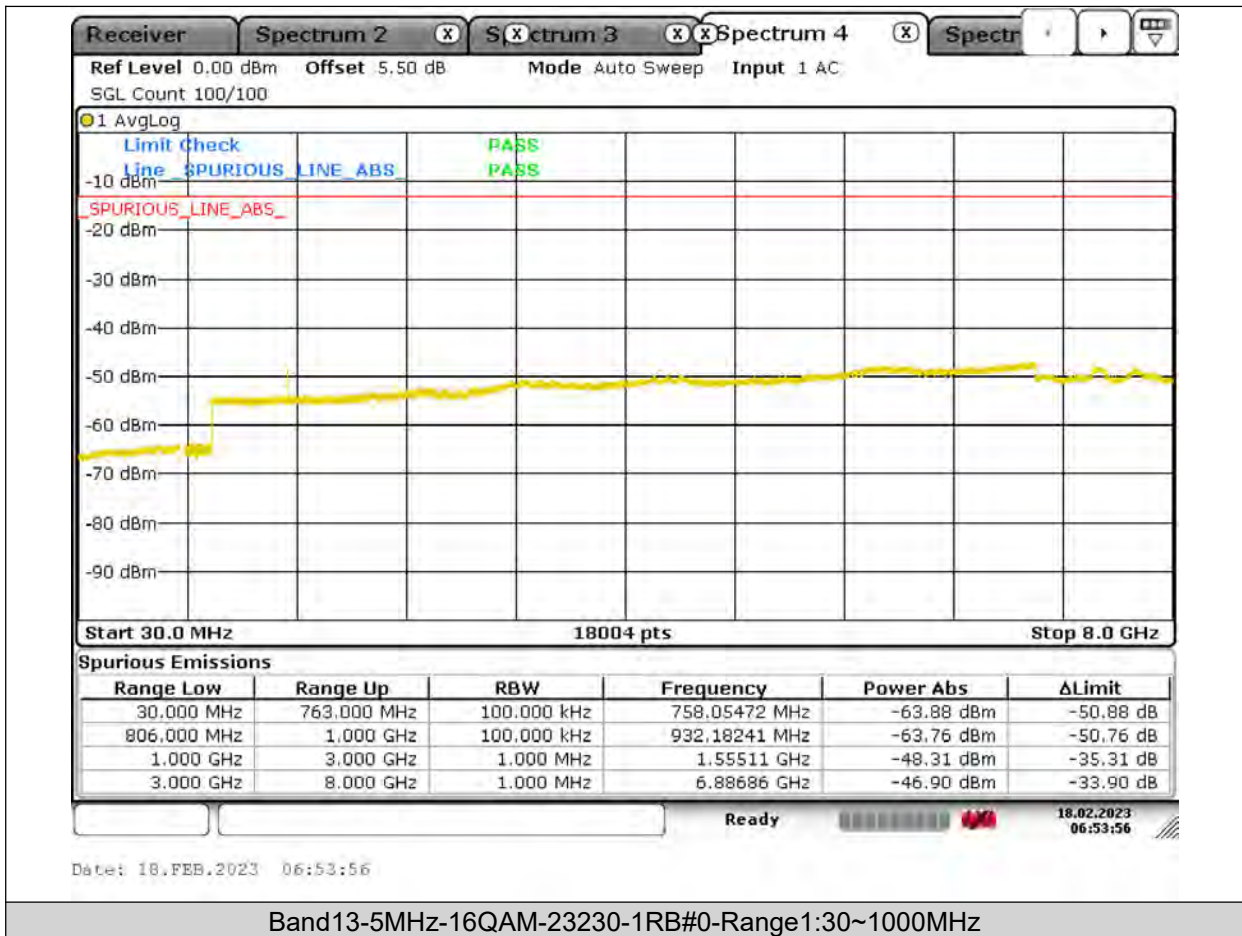
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VERITAS

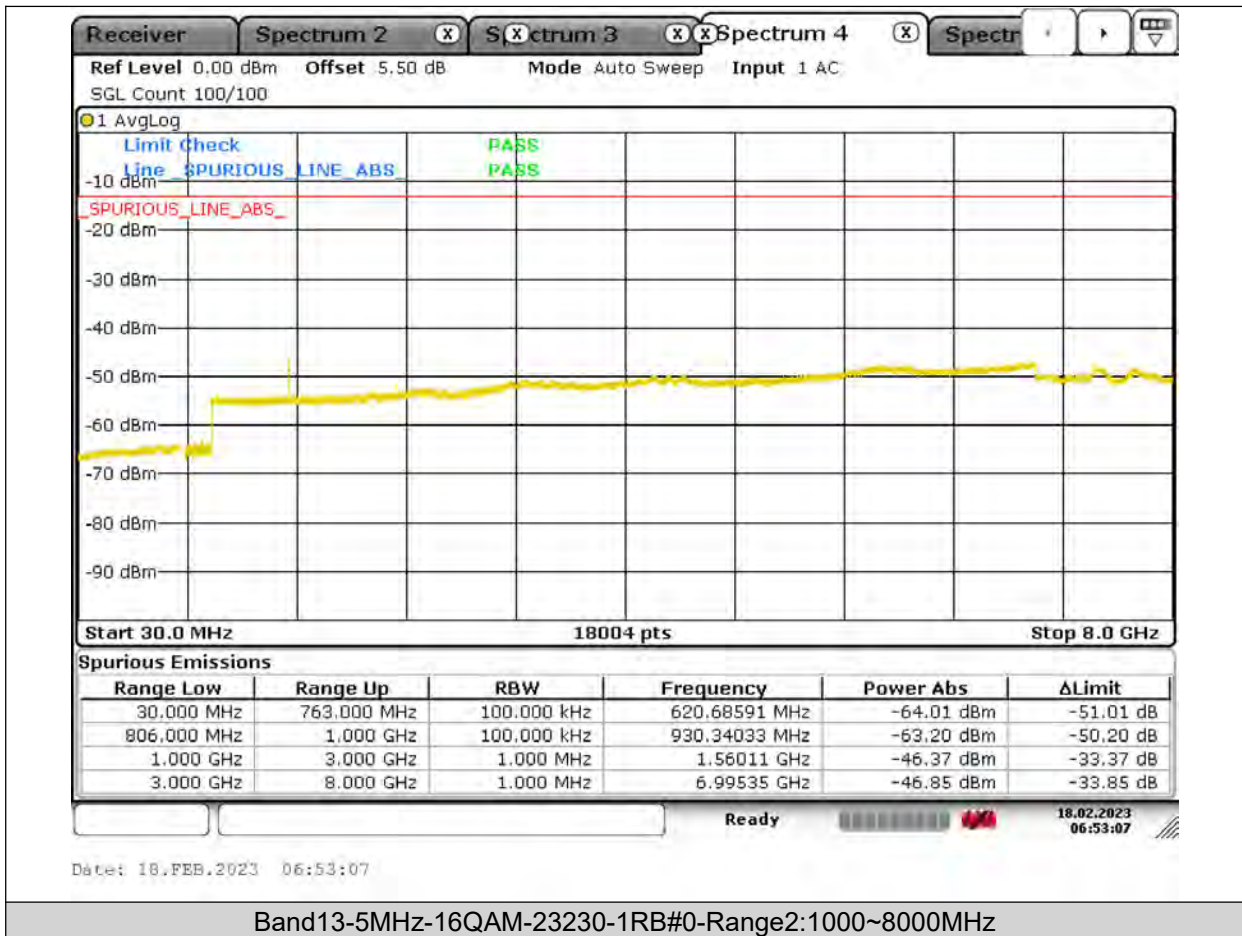
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VERITAS

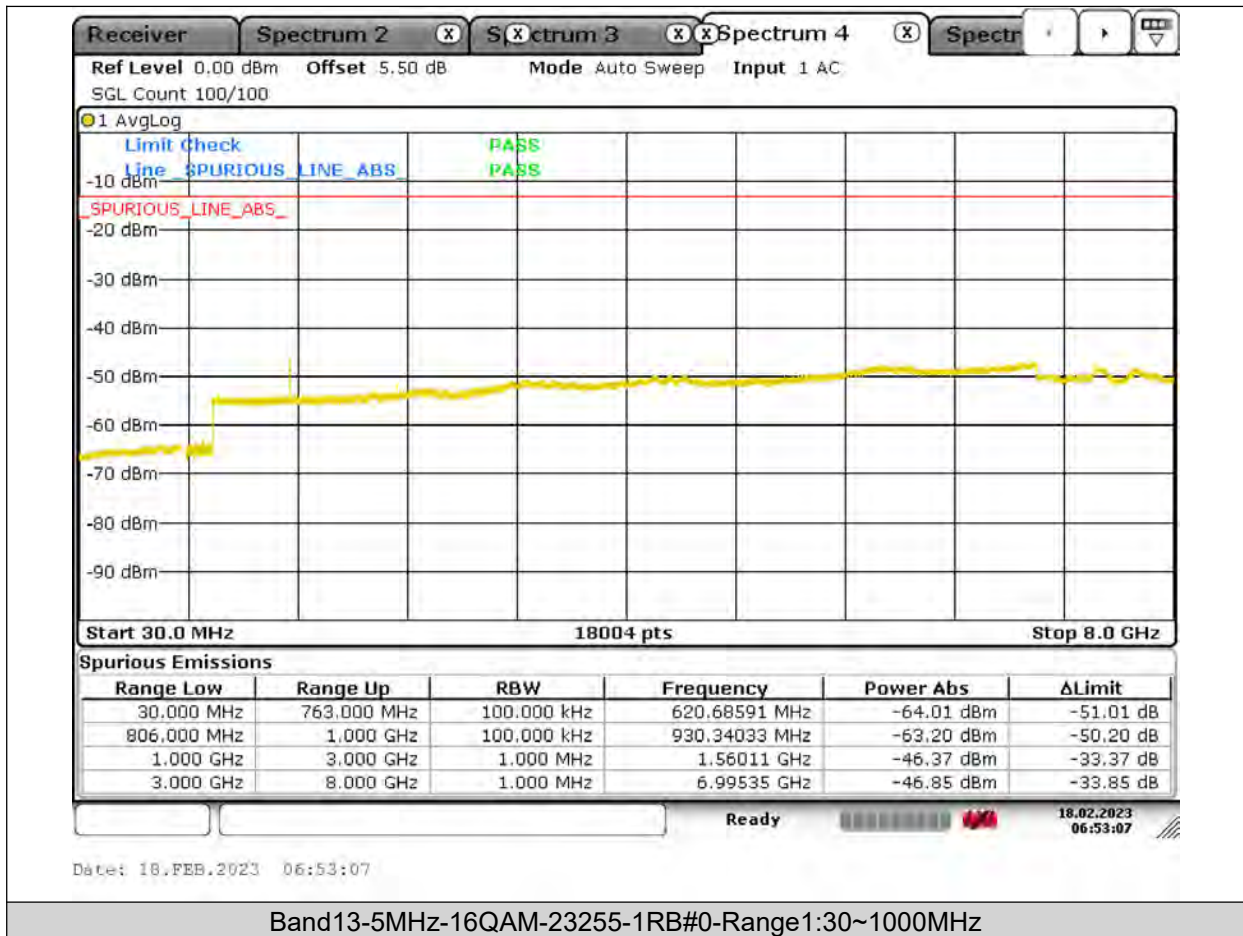
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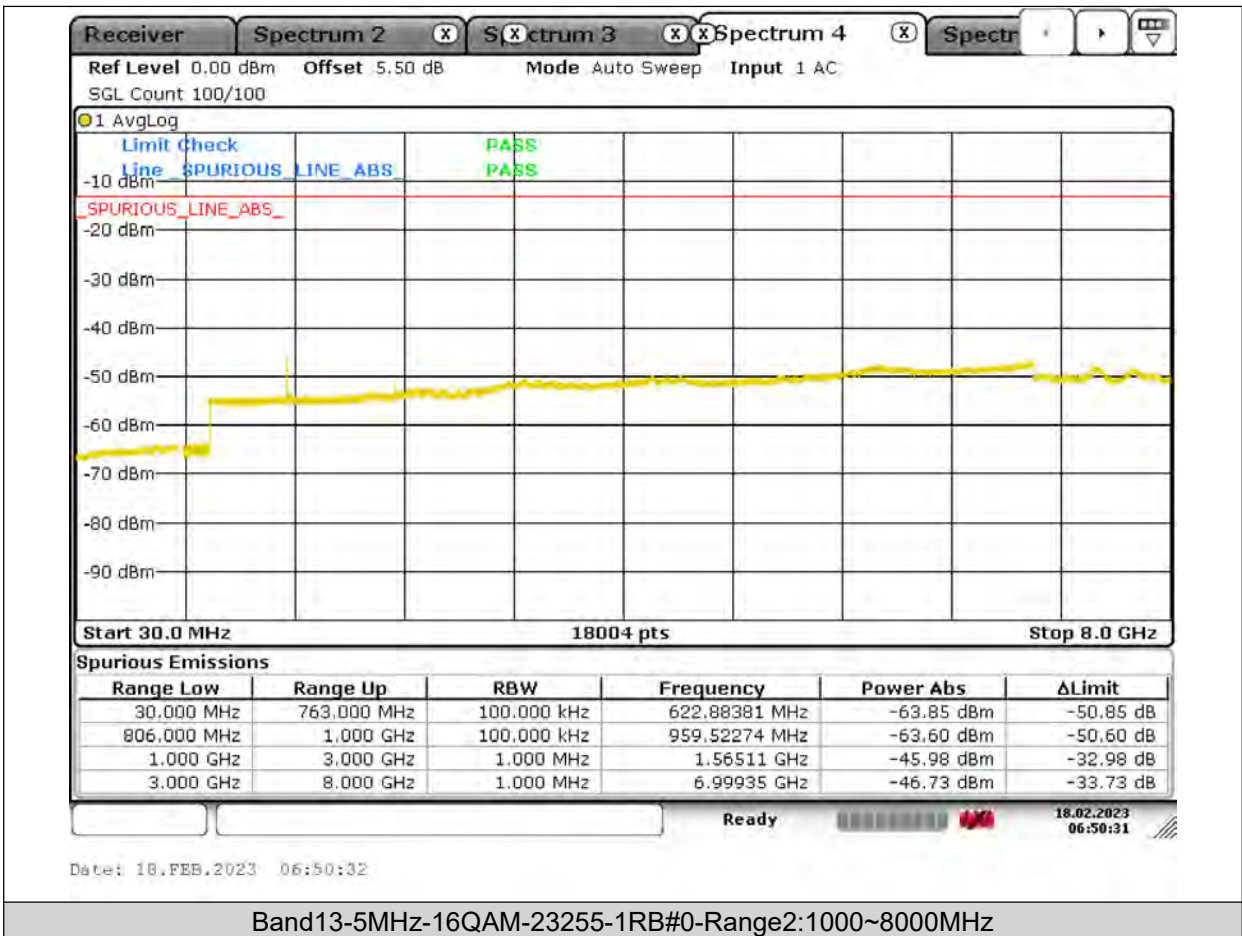
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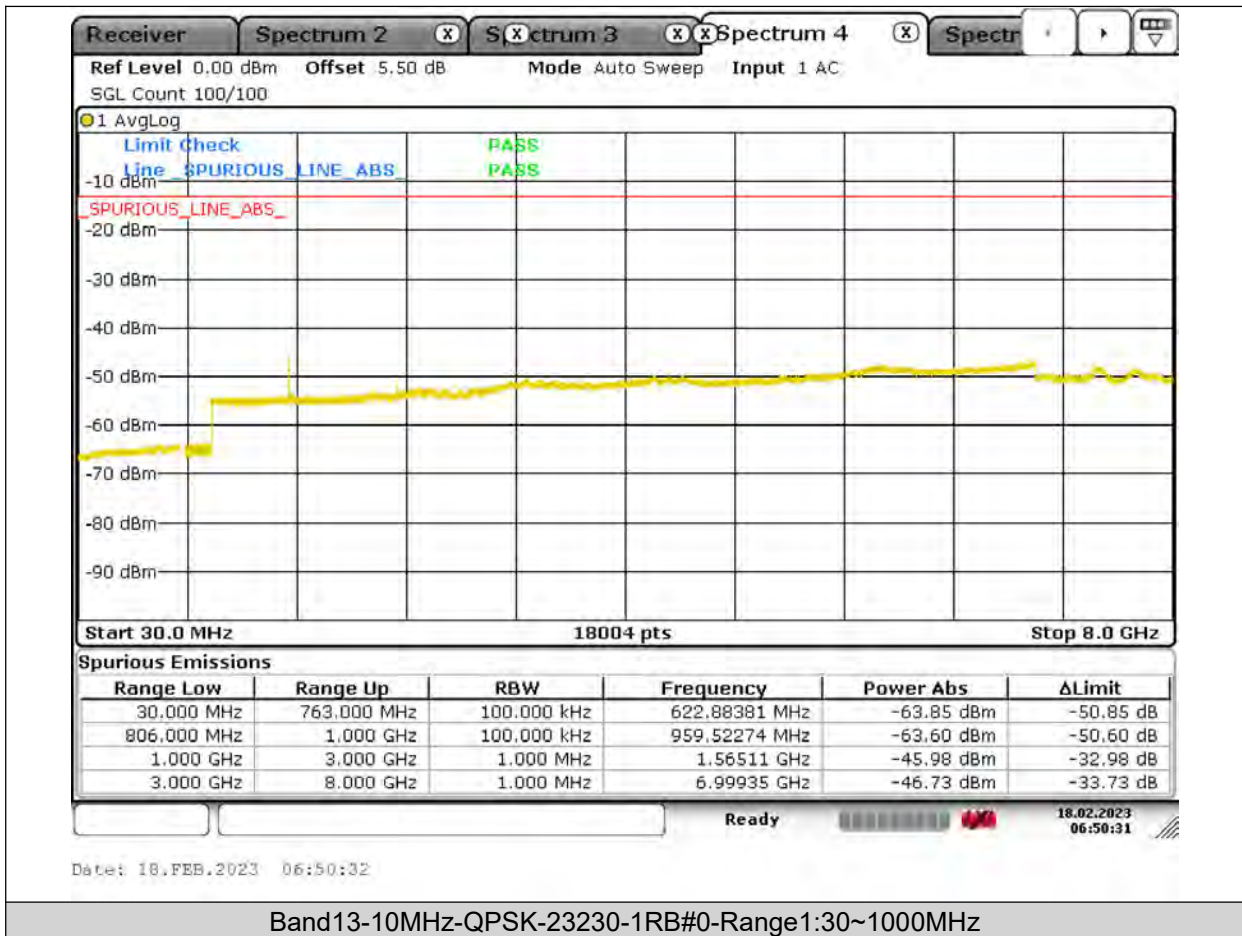
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VERITAS

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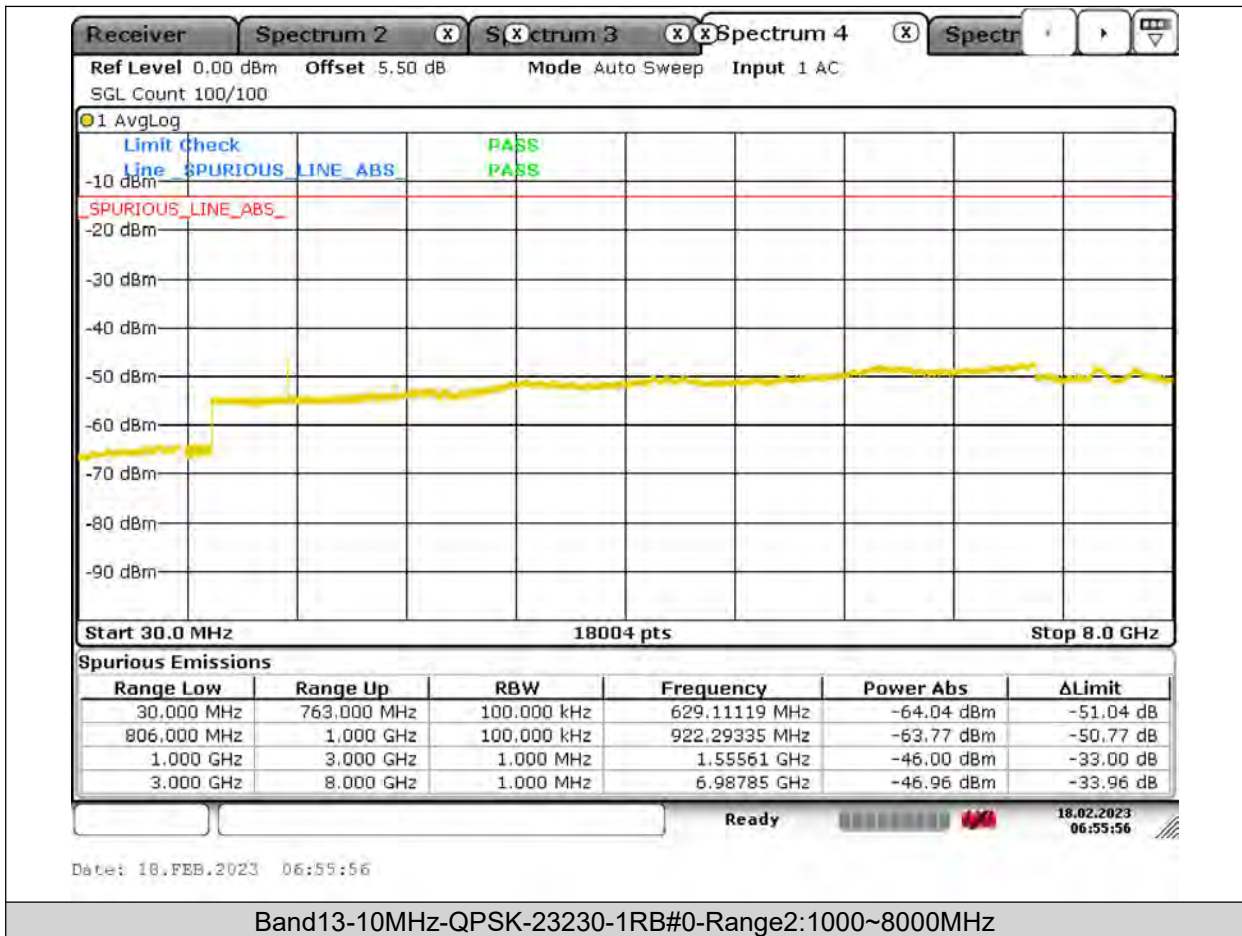






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VERITAS

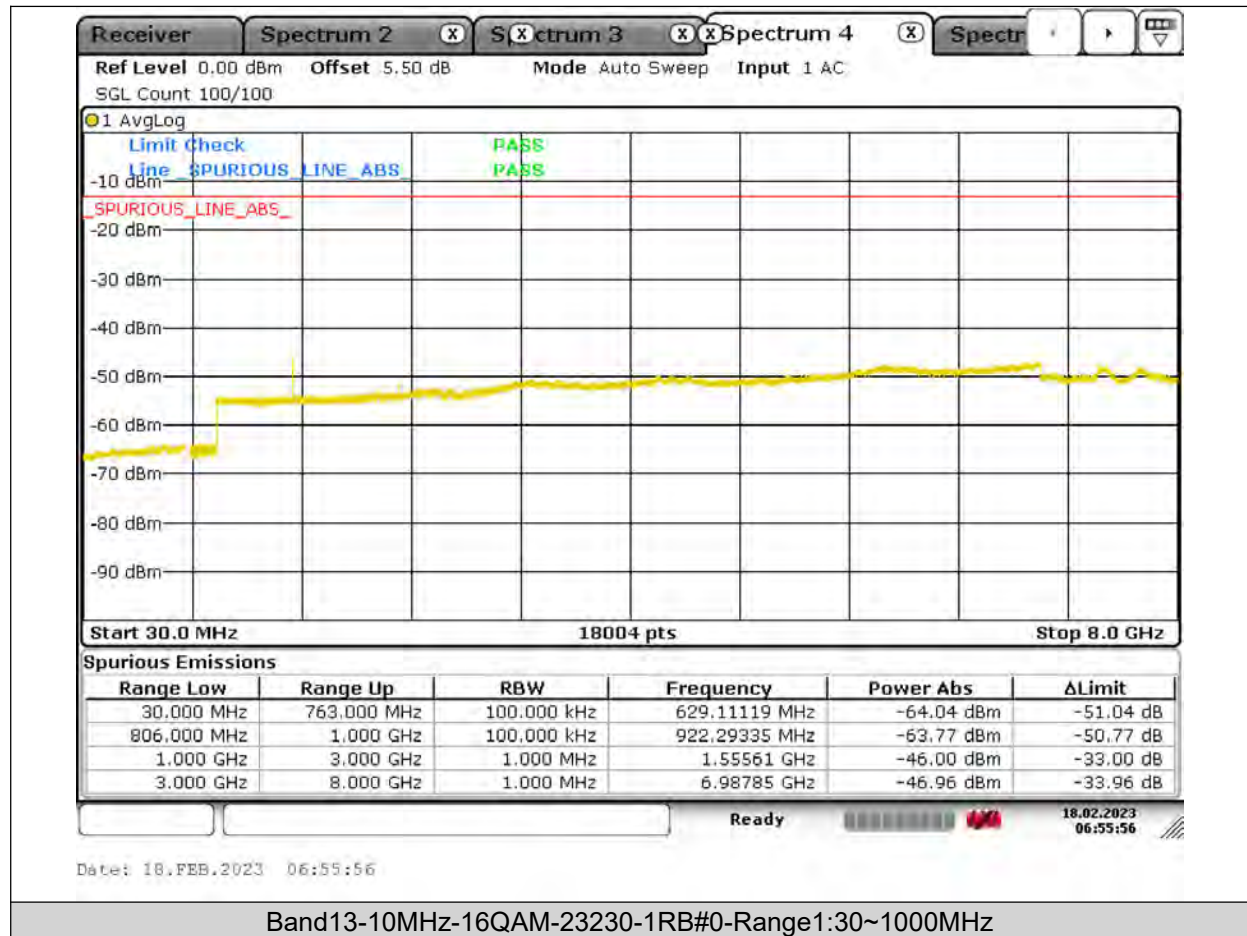
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BUREAU VERITAS

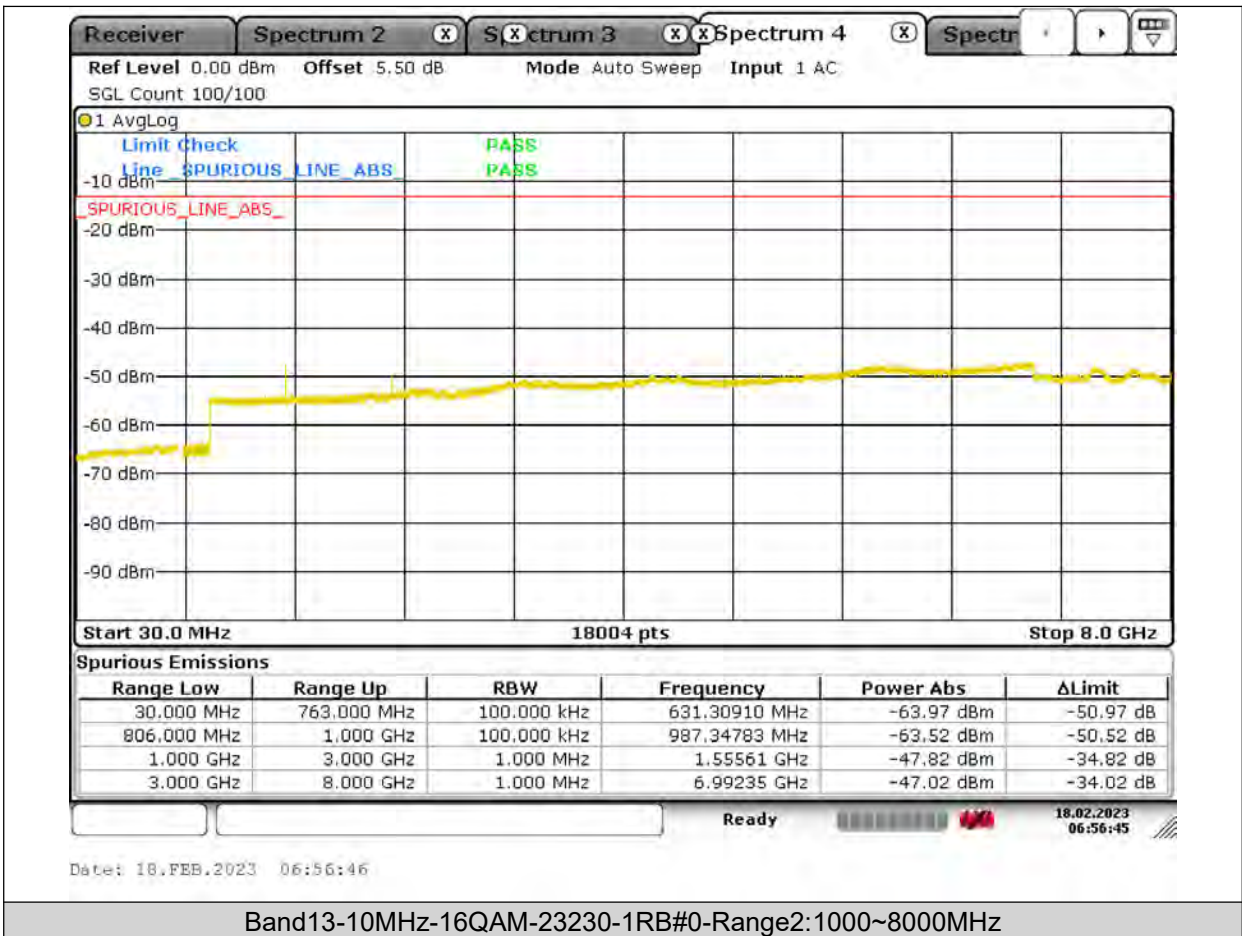
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VERITAS

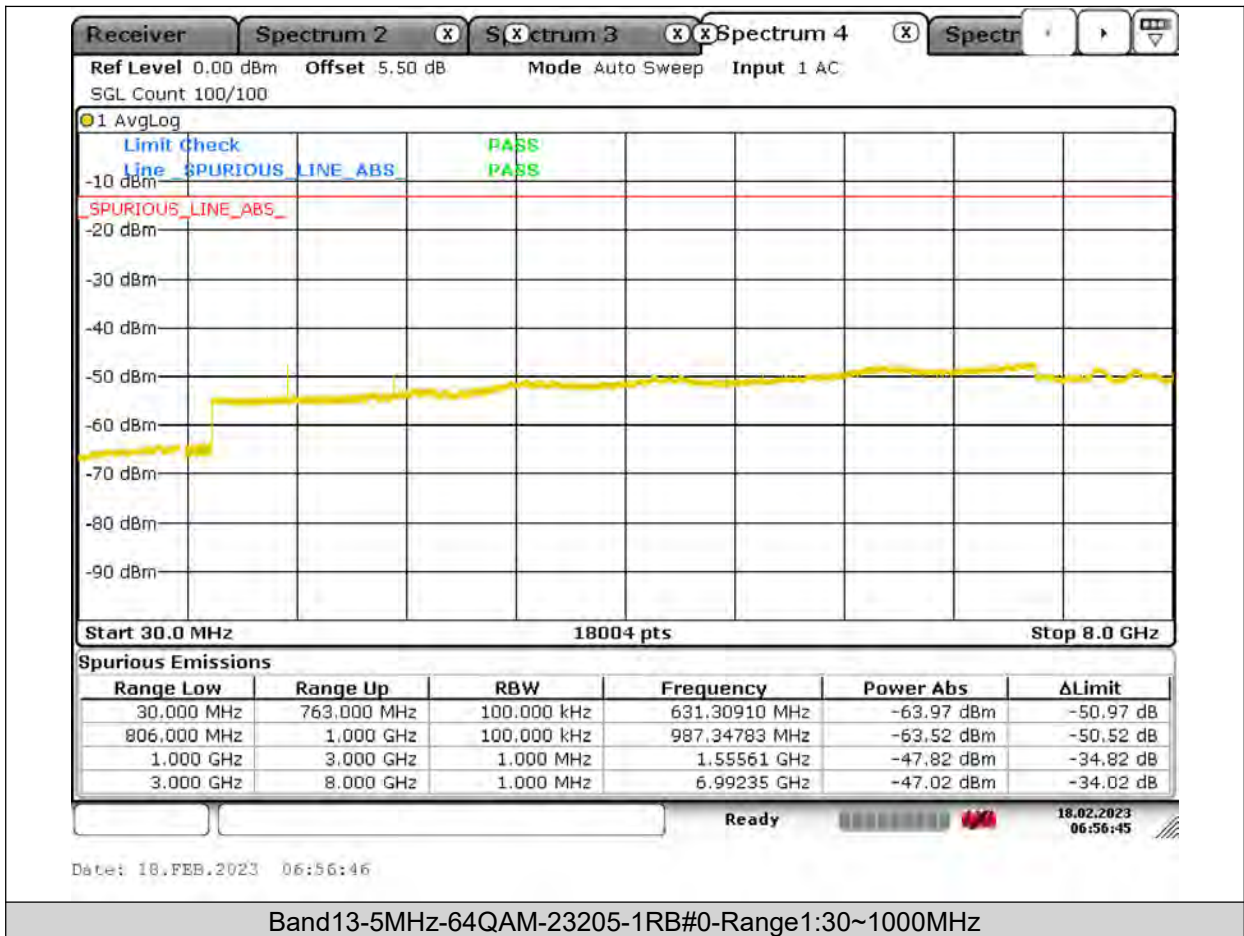
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BUREAU VERITAS

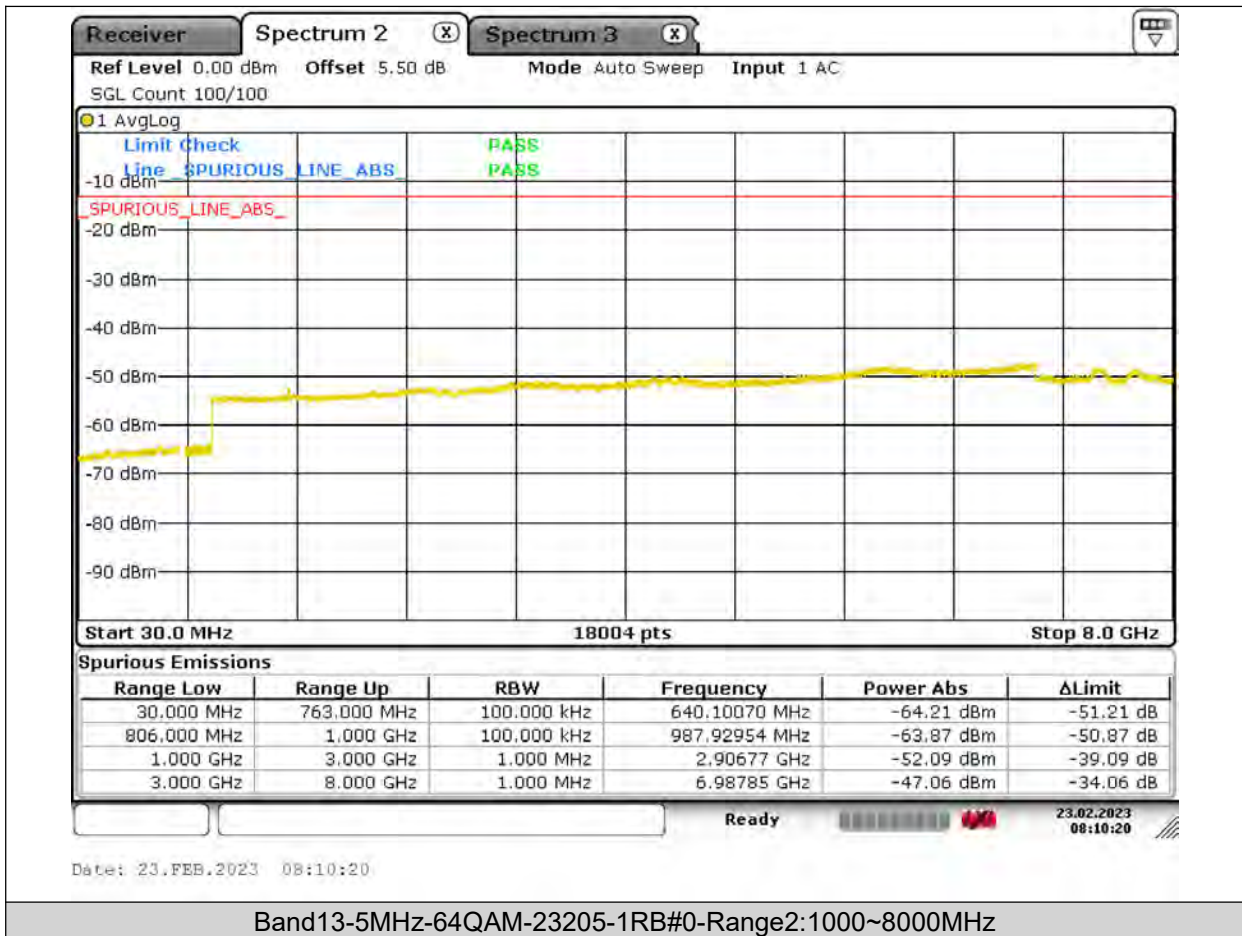
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BUREAU  
VERITAS

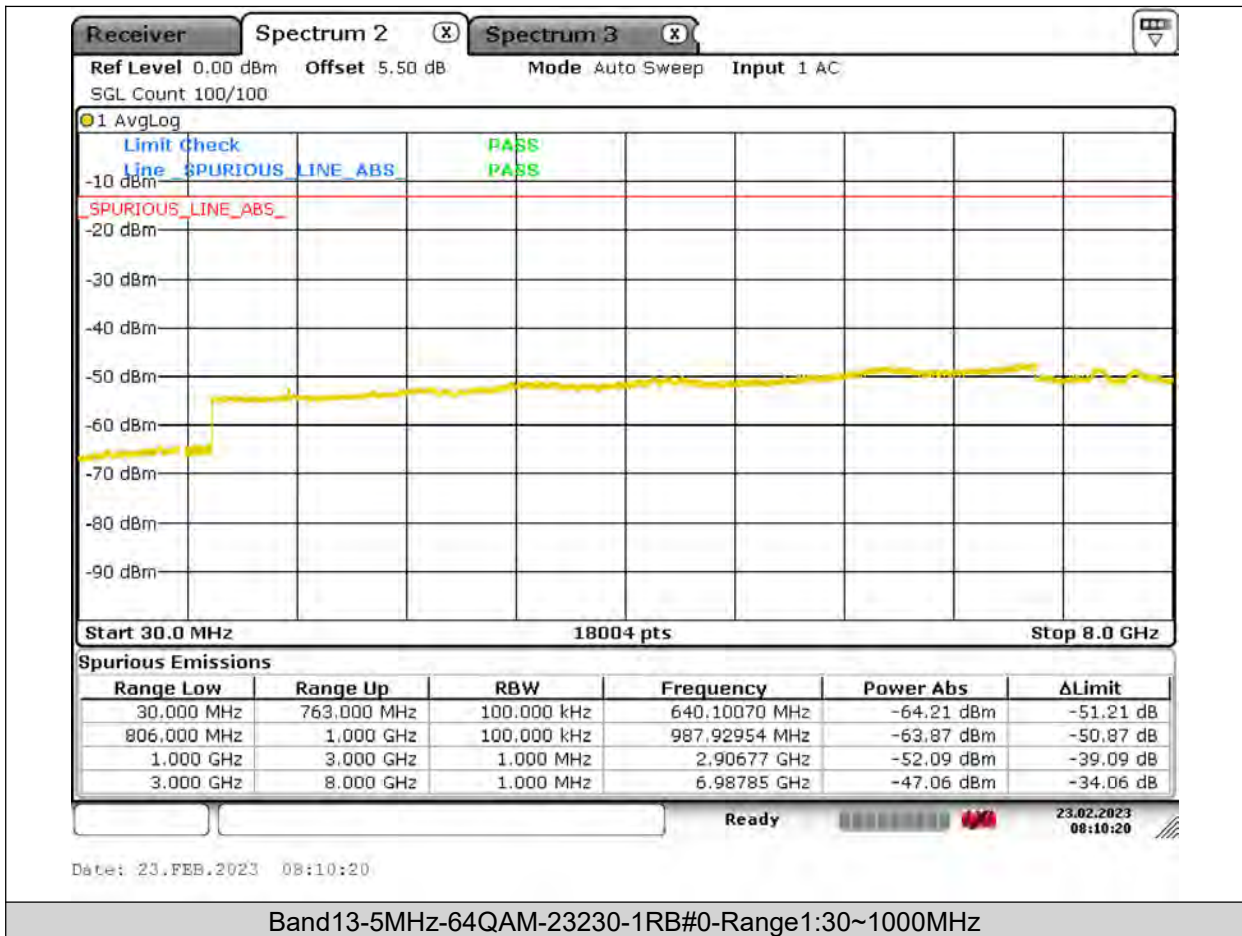
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VERITAS

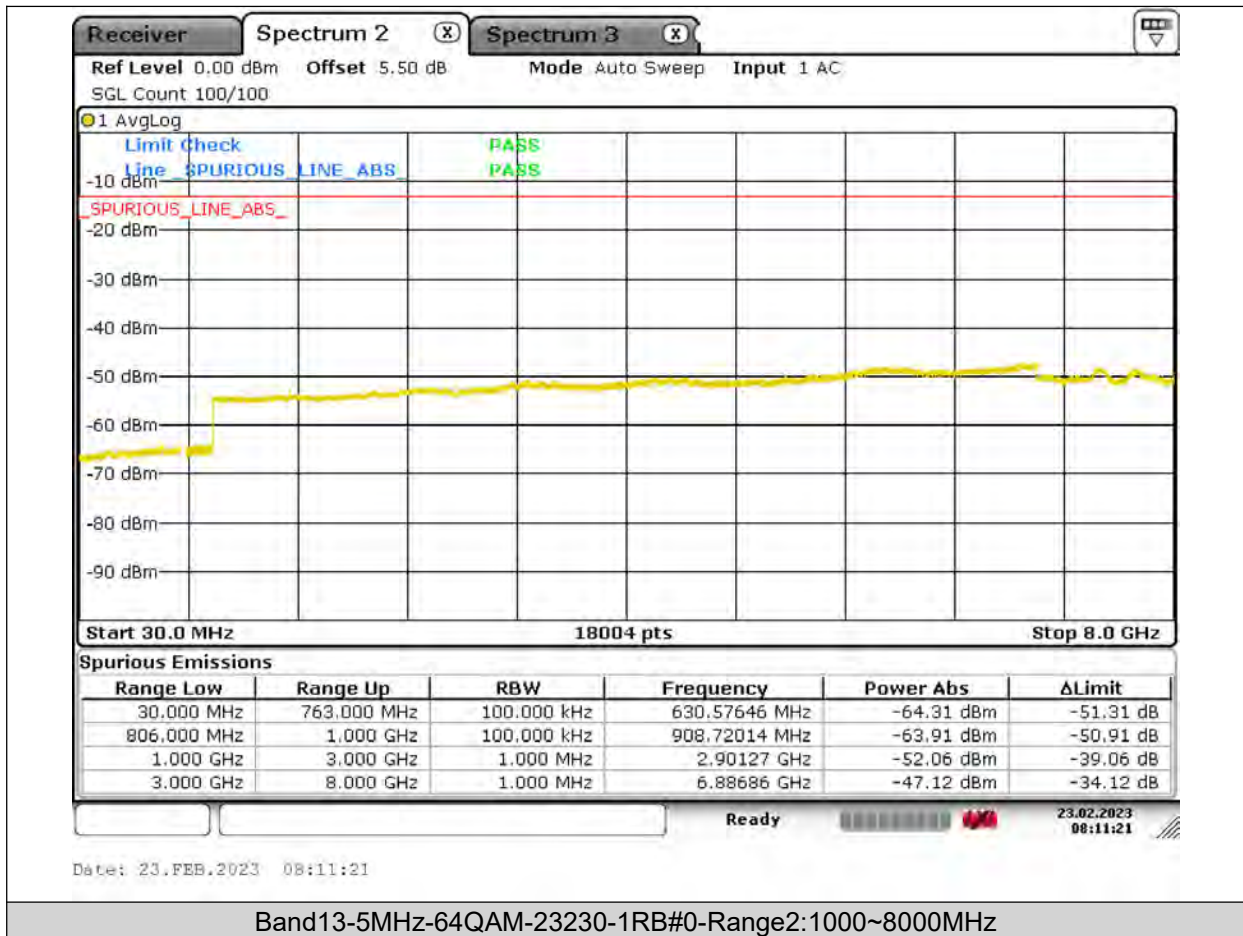
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BUREAU  
VERITAS

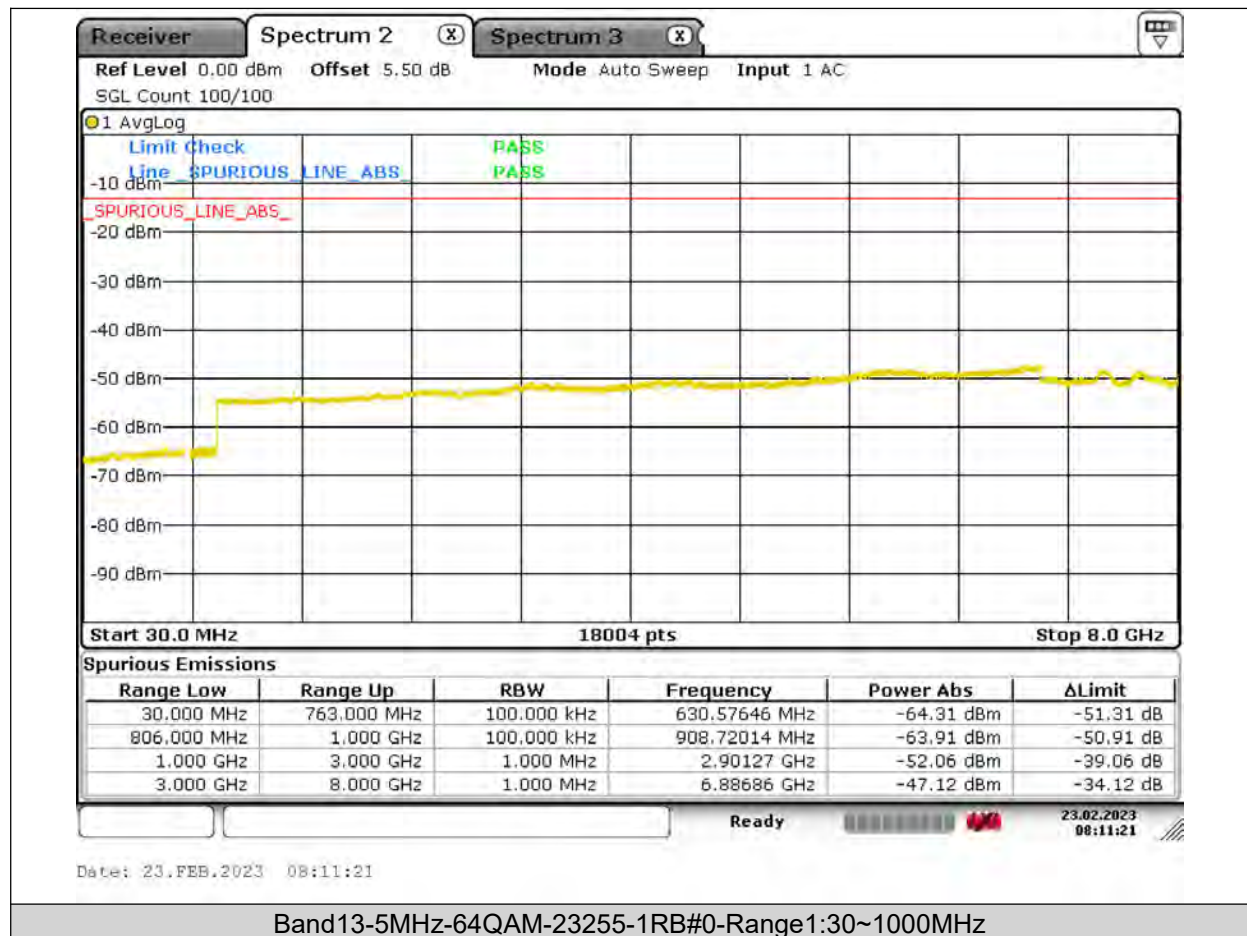
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BUREAU  
VERITAS

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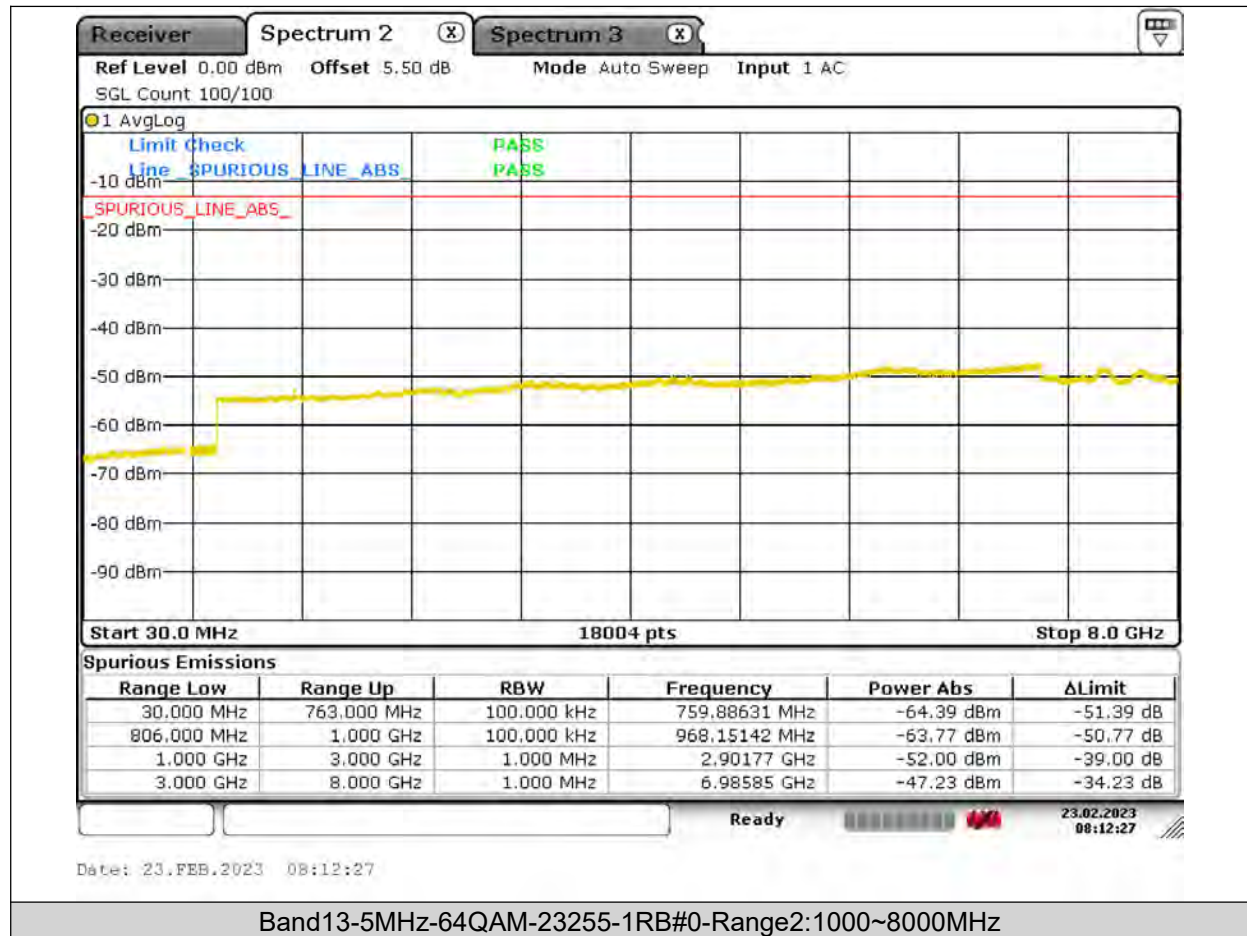






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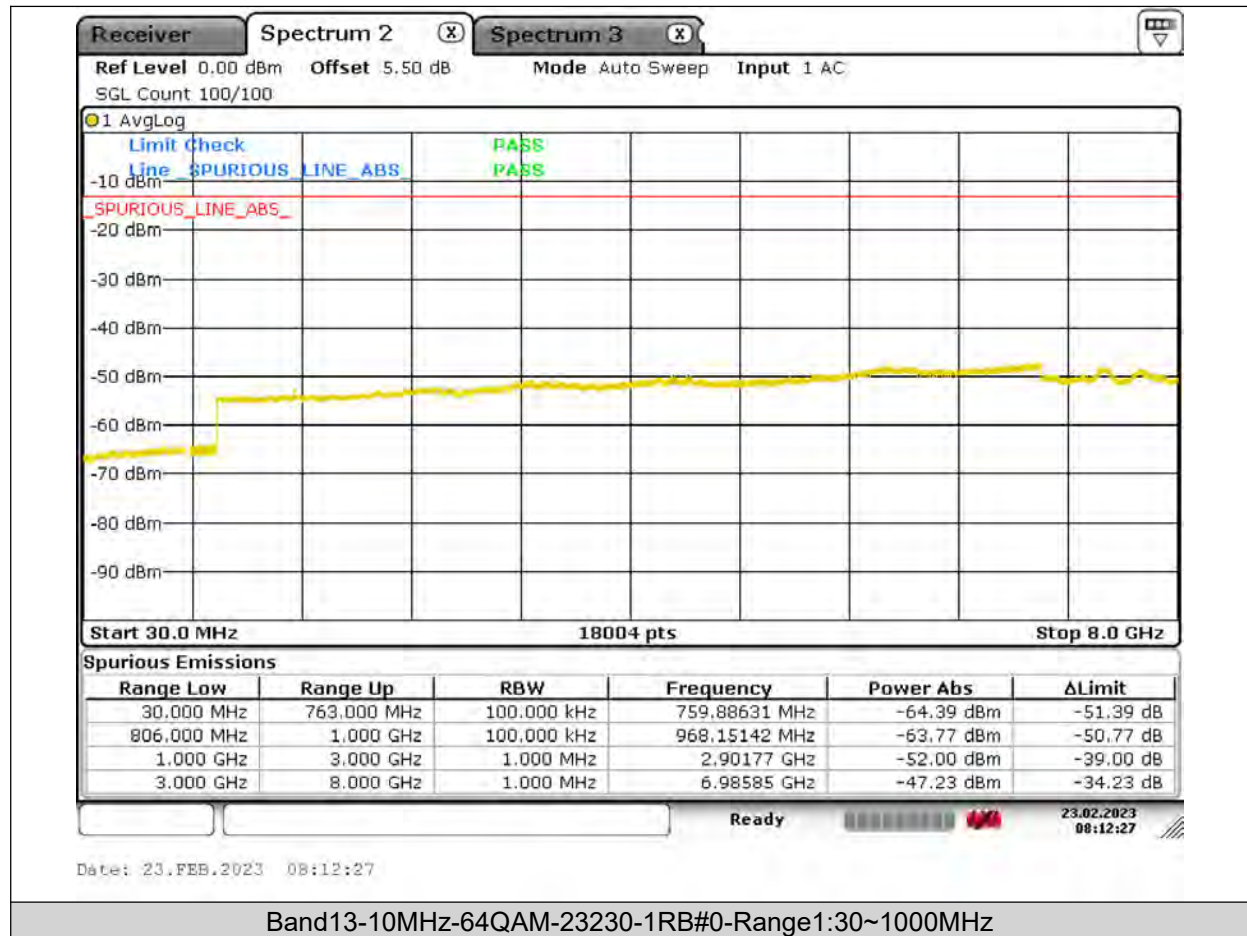
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BUREAU VERITAS

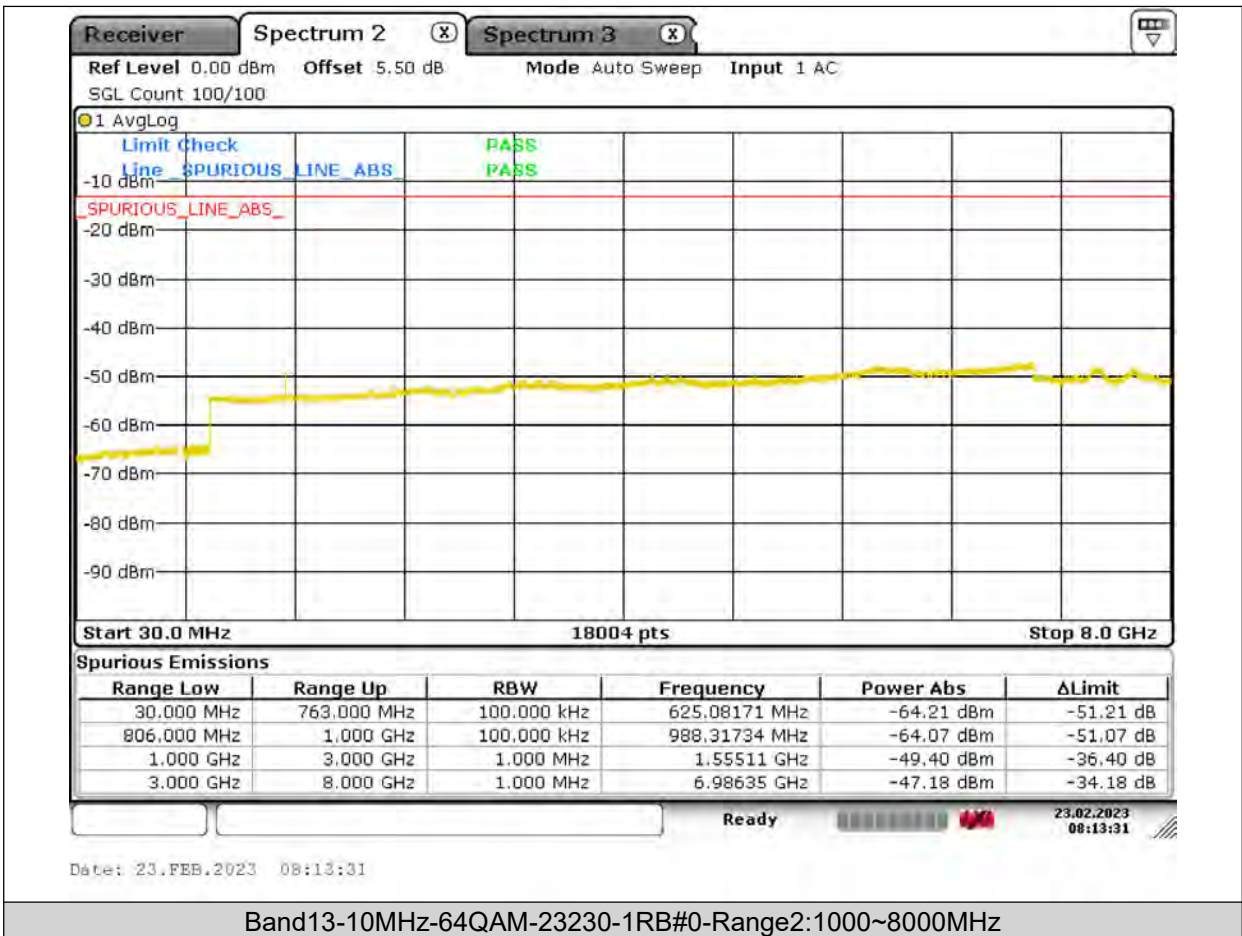
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BUREAU VERITAS

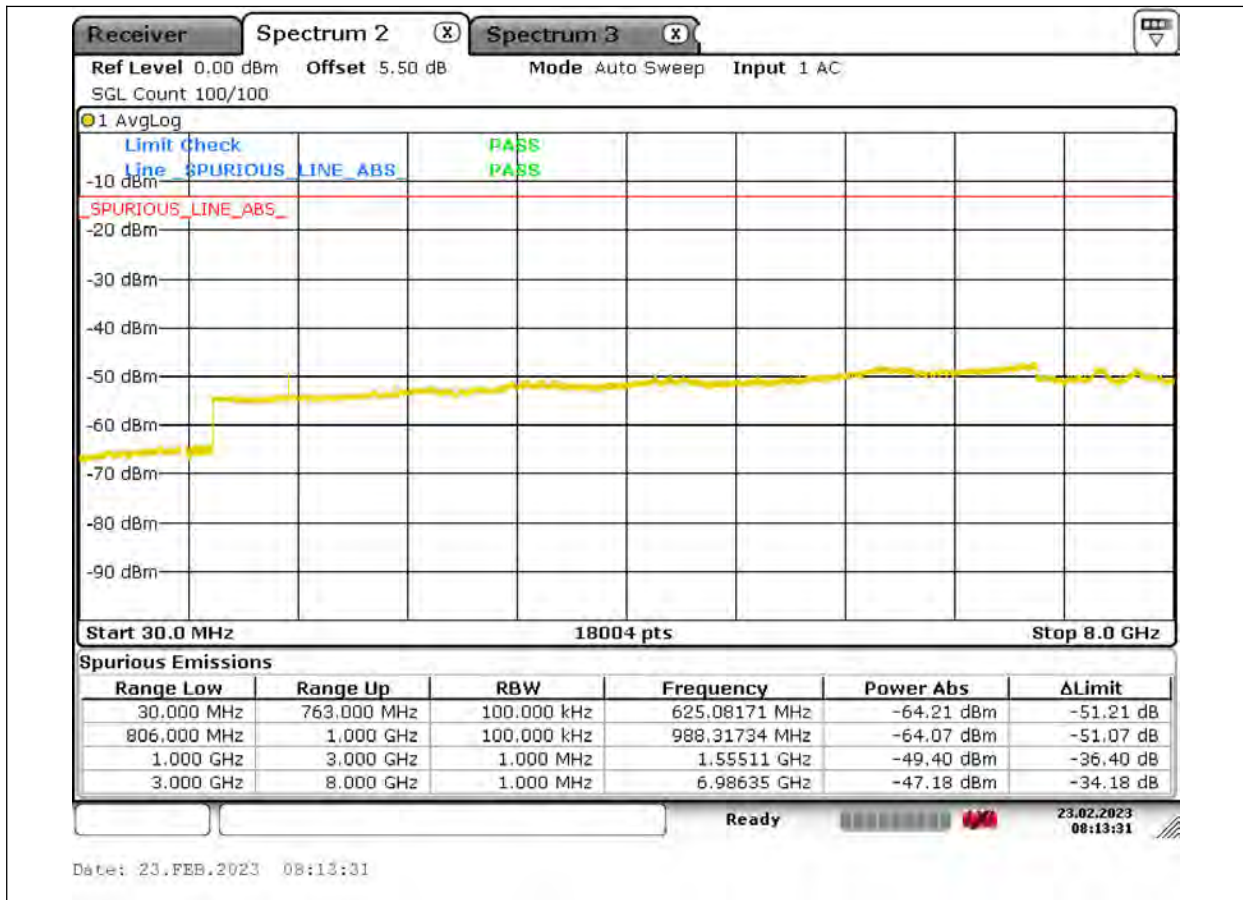
Test Report No.: PSU-QSU2308280414RF03





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VERITAS

Test Report No.: PSU-QSU2308280414RF03





Test Report No.: PSU-QSU2308280414RF03

## FREQUENCY STABILITY

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	13.21	0.016893	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.9	-0.001151	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-24.2	-0.030946	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	27	0.034527	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	0.6	0.000767	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	17.5	0.022379	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VL	NT	14.21	0.018171	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VN	NT	-16.6	-0.021228	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VH	NT	-9.6	-0.012276	±2.5	PASS



Test Report No.: PSU-QSU2308280414RF03

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	9.21	0.011777	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-11.2	-0.014322	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-14.8	-0.018926	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	22.8	0.029156	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	1	0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2	-0.002558	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	6.1	0.007801	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-21.9	-0.028005	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-20.6	-0.026343	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-7.2	-0.009207	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-1.1	-0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-24.9	-0.031841	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-6.9	-0.008824	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-7.4	-0.009463	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-8	-0.010230	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-22.4	-0.028645	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-30	14.23	0.018197	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-20	-9.6	-0.012276	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	0	5.3	0.006777	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	10	-12.5	-0.015985	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	20	1	0.001279	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	30	16.3	0.020844	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	40	-20	-0.025575	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	50	-9.8	-0.012532	±2.5	PASS



Test Report No.: PSU-QSU2308280414RF03

## LTE BAND66

### PEAK-TO-AVERAGE RATIO(CCDF)

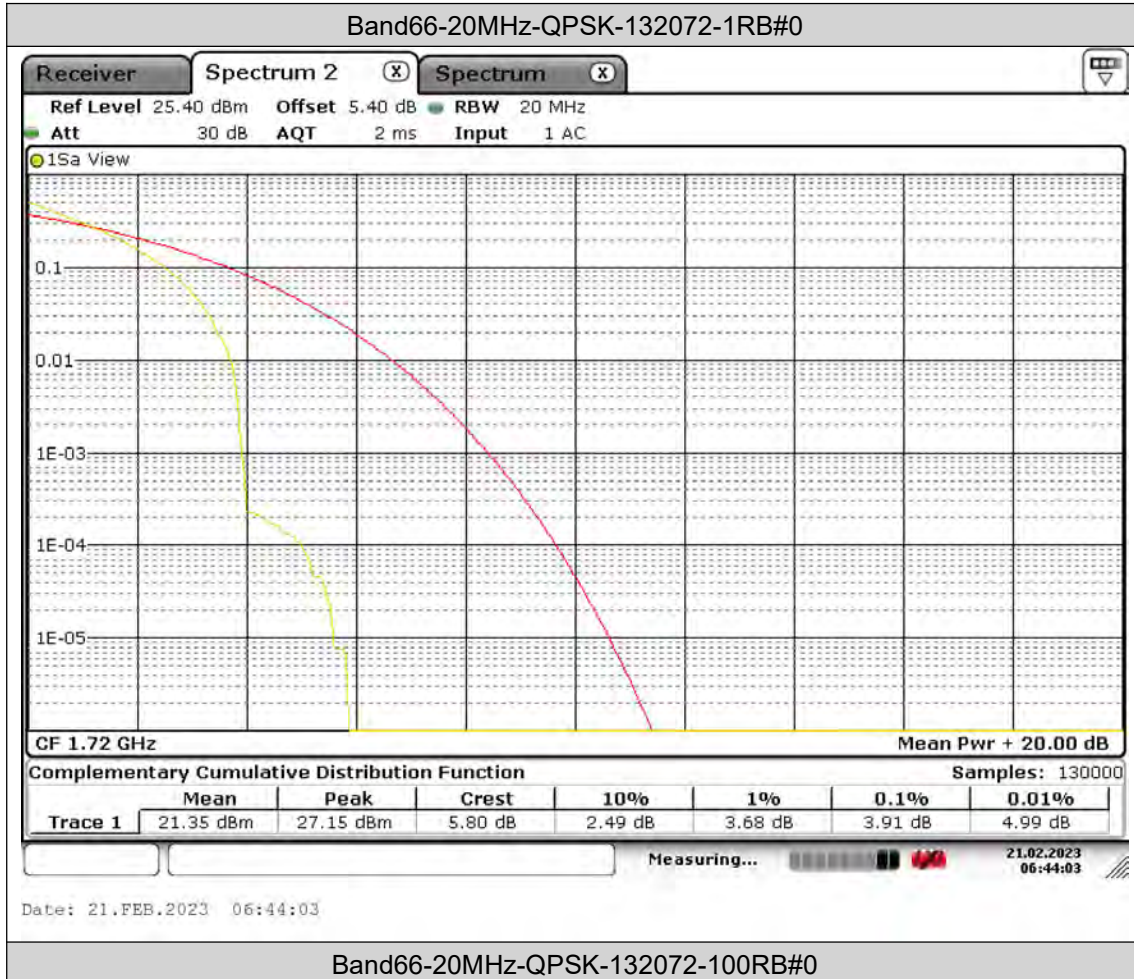
#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	1RB#0	3.91	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	4.84	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	4.75	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.07	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	4.49	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.13	13	PASS
Band66	20MHz	16QAM	132072	1RB#0	4.41	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.83	13	PASS
Band66	20MHz	16QAM	132322	1RB#0	5.45	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.91	13	PASS
Band66	20MHz	16QAM	132572	1RB#0	5.13	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.97	13	PASS
Band66	20MHz	64QAM	132072	1RB#0	4.41	13	PASS
Band66	20MHz	64QAM	132072	100RB#0	6.32	13	PASS
Band66	20MHz	64QAM	132322	1RB#0	6.12	13	PASS
Band66	20MHz	64QAM	132322	100RB#0	6.23	13	PASS
Band66	20MHz	64QAM	132572	1RB#0	5.91	13	PASS
Band66	20MHz	64QAM	132572	100RB#0	6.26	13	PASS



Test Report No.: PSU-QSU2308280414RF03

### Test Graphs

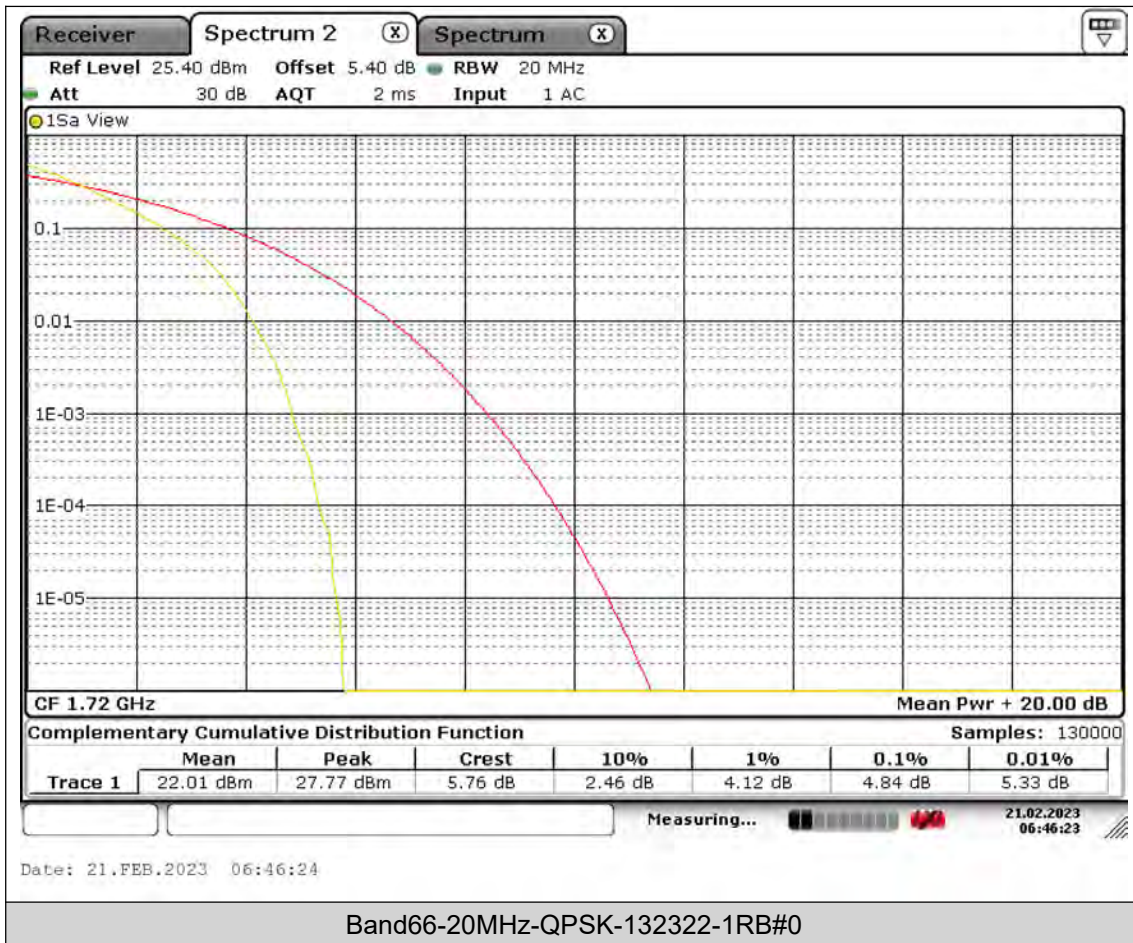






BUREAU VERITAS

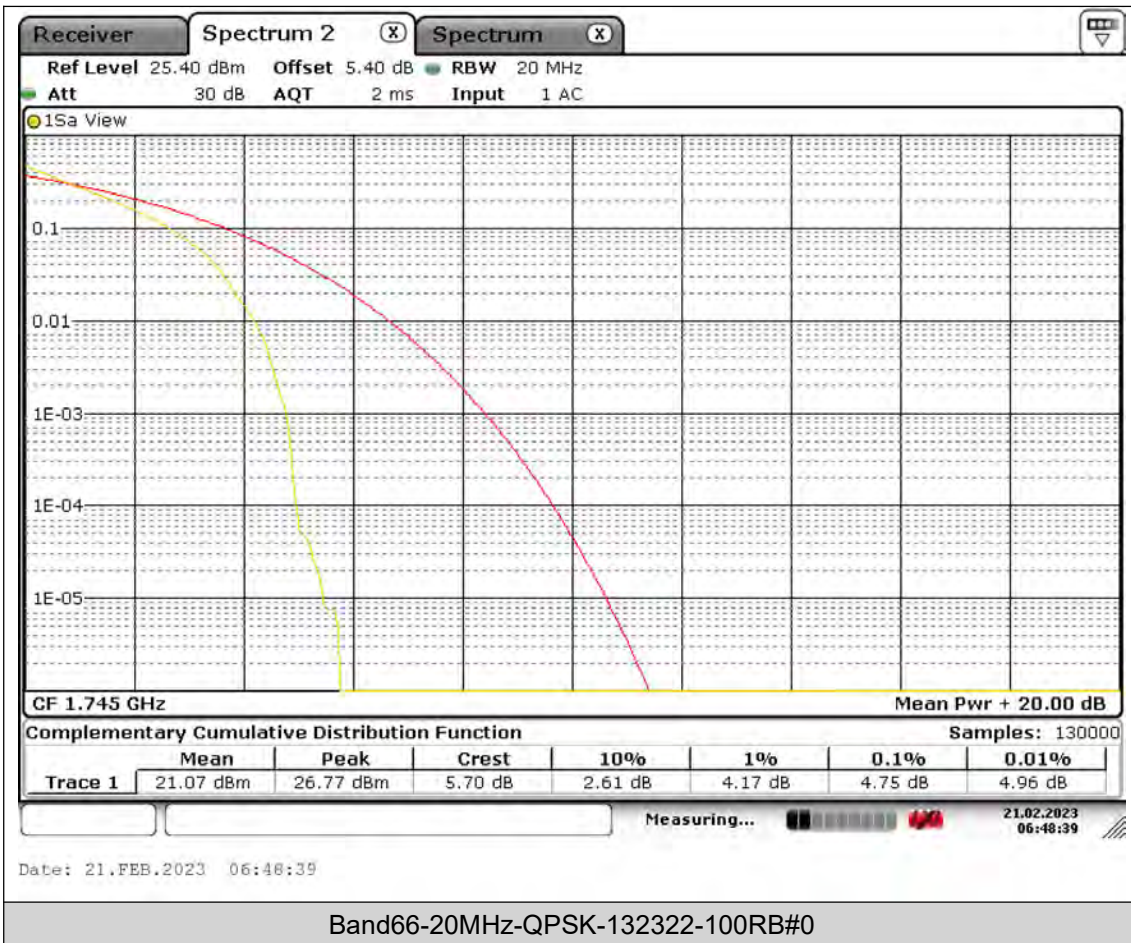
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

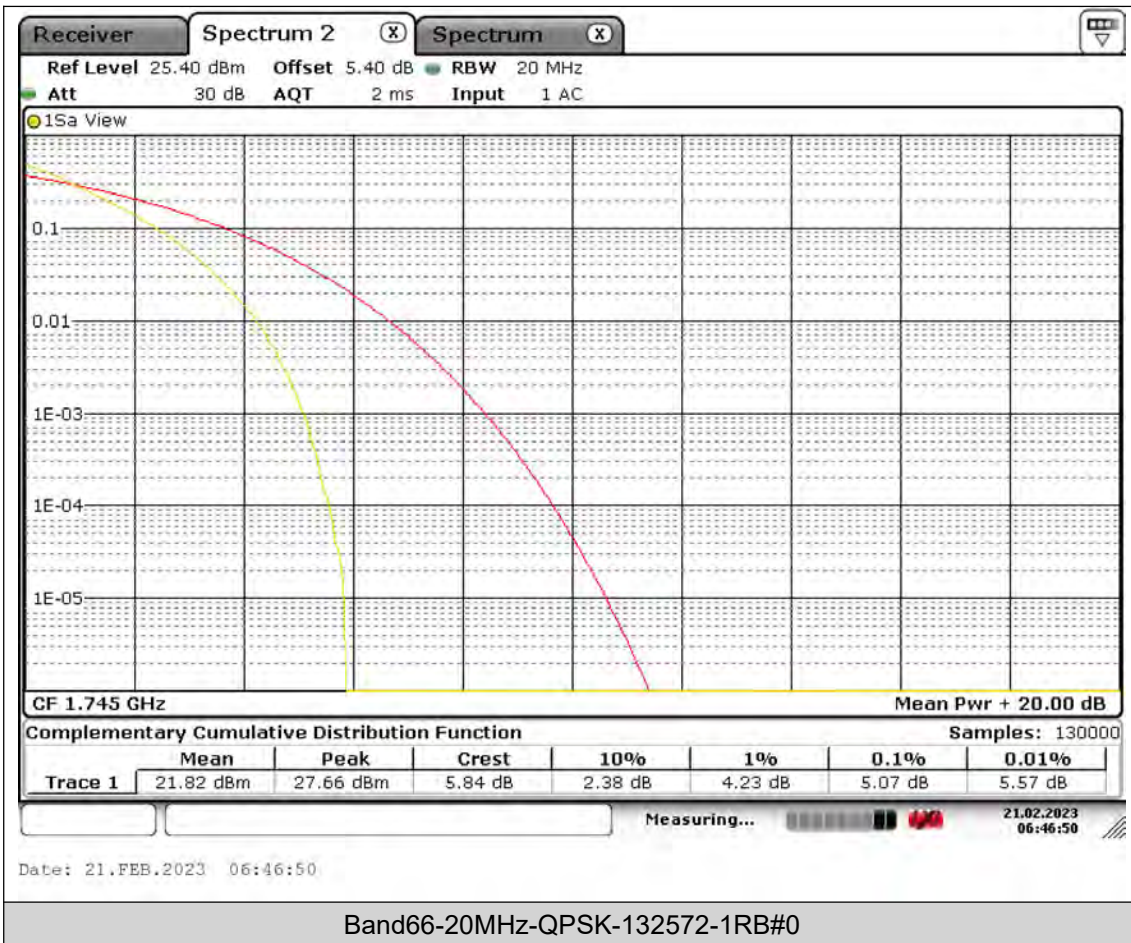
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BUREAU VERITAS

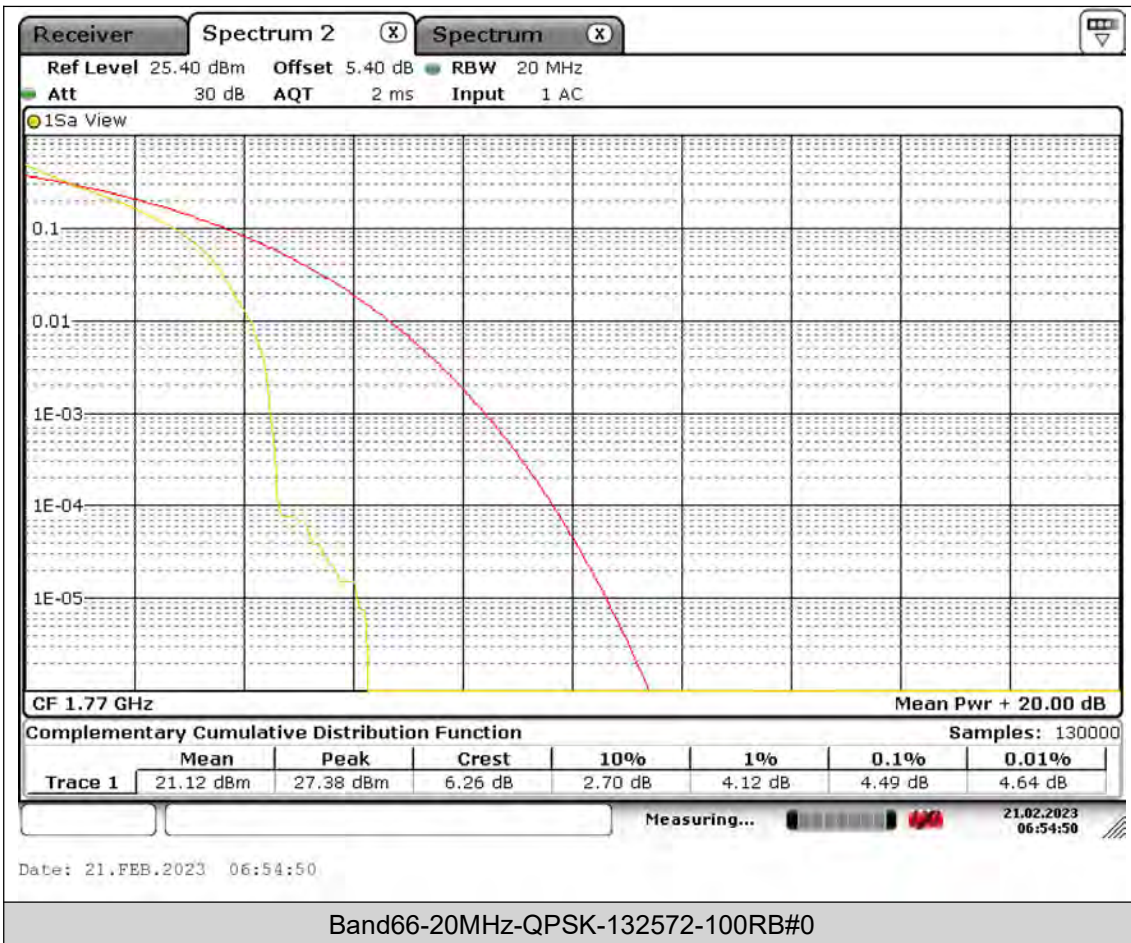
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BUREAU VERITAS

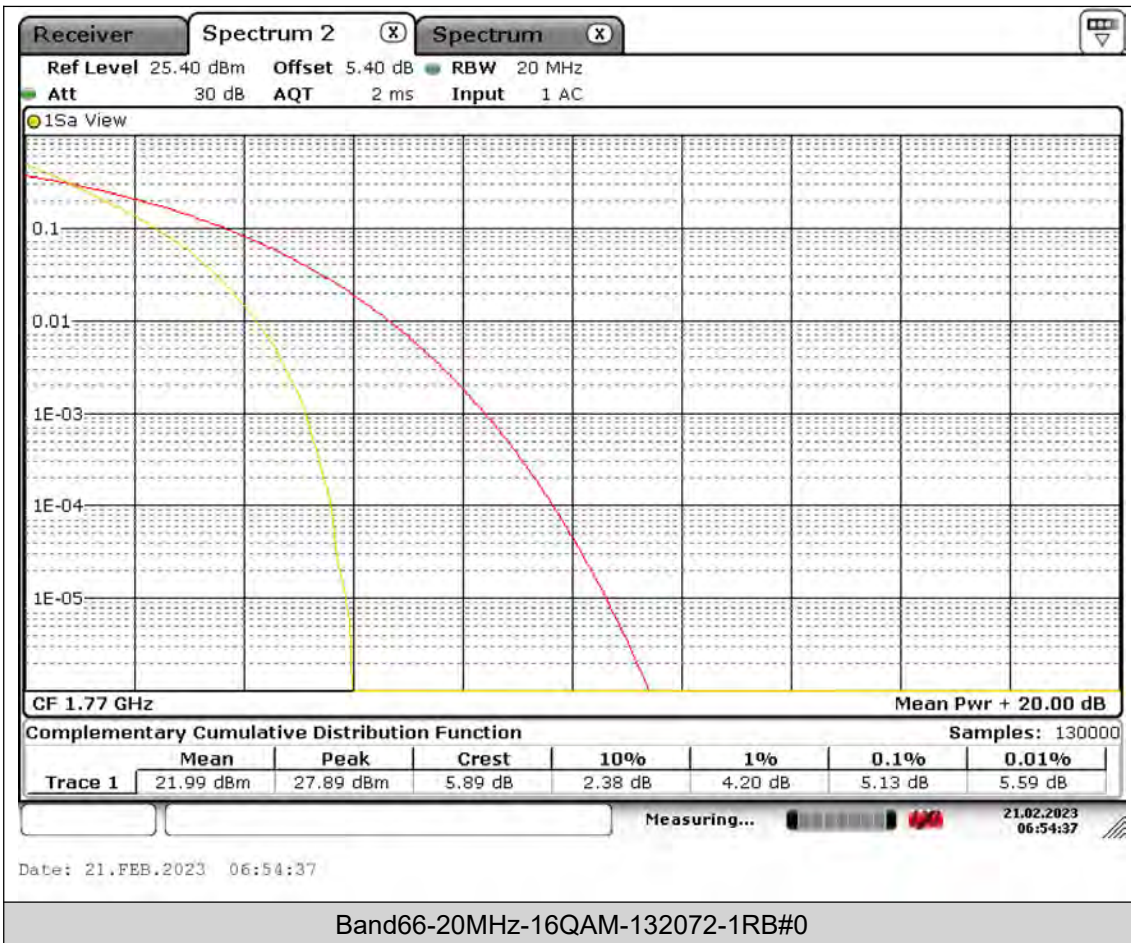
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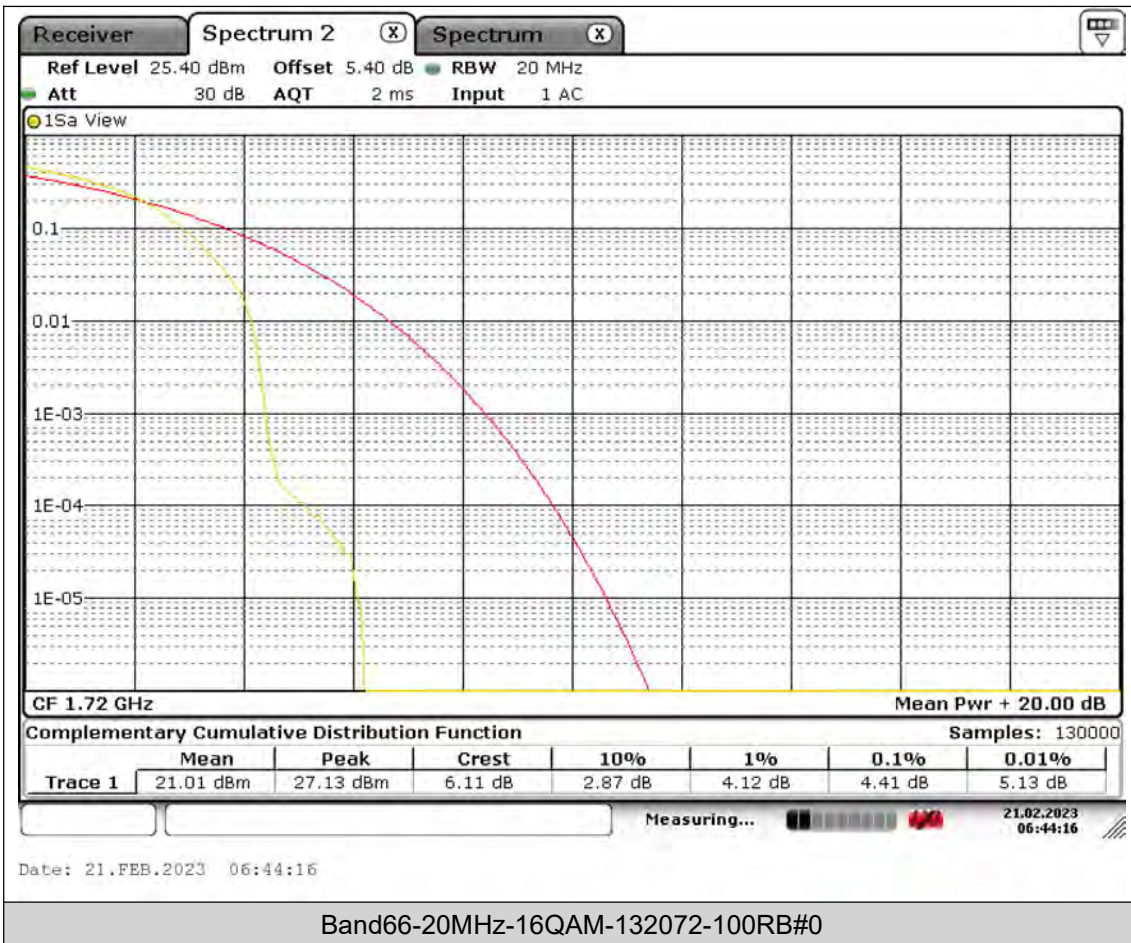
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BUREAU VERITAS

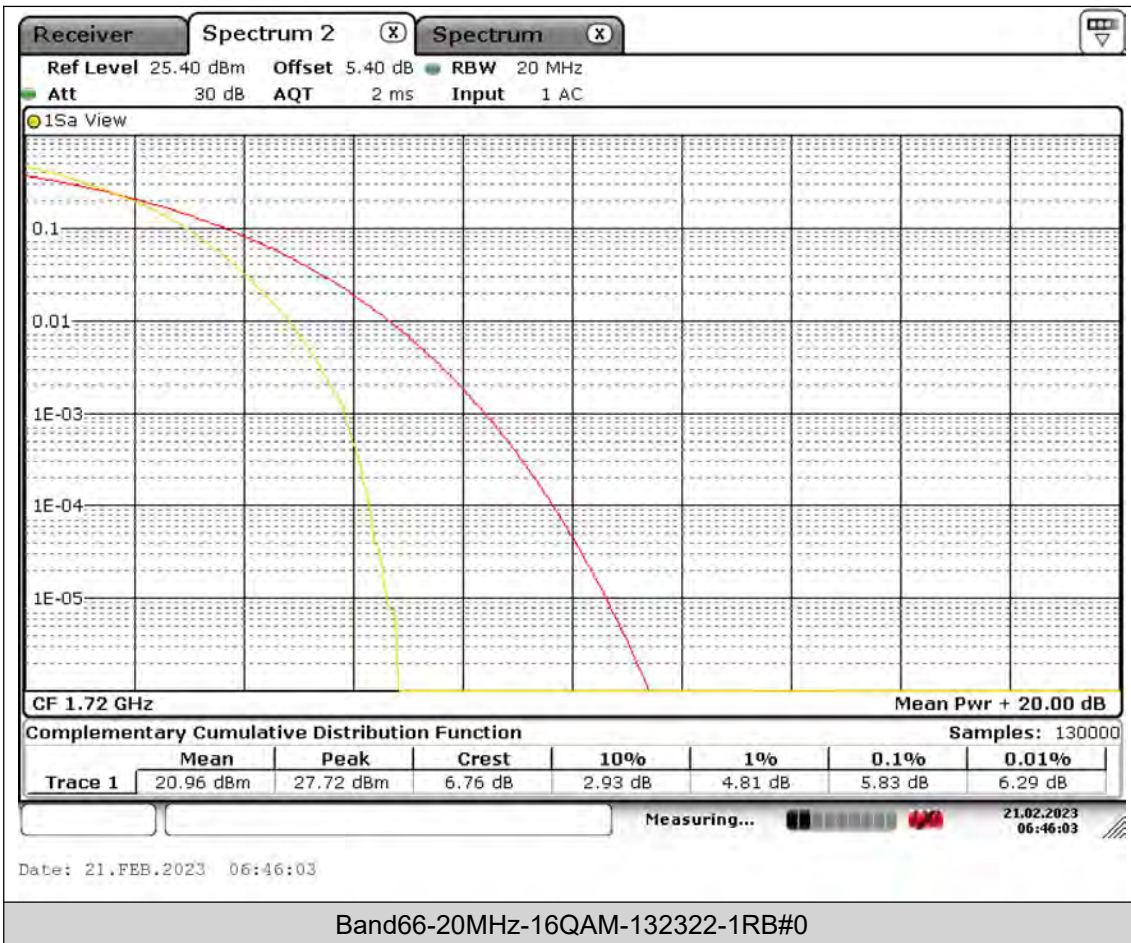
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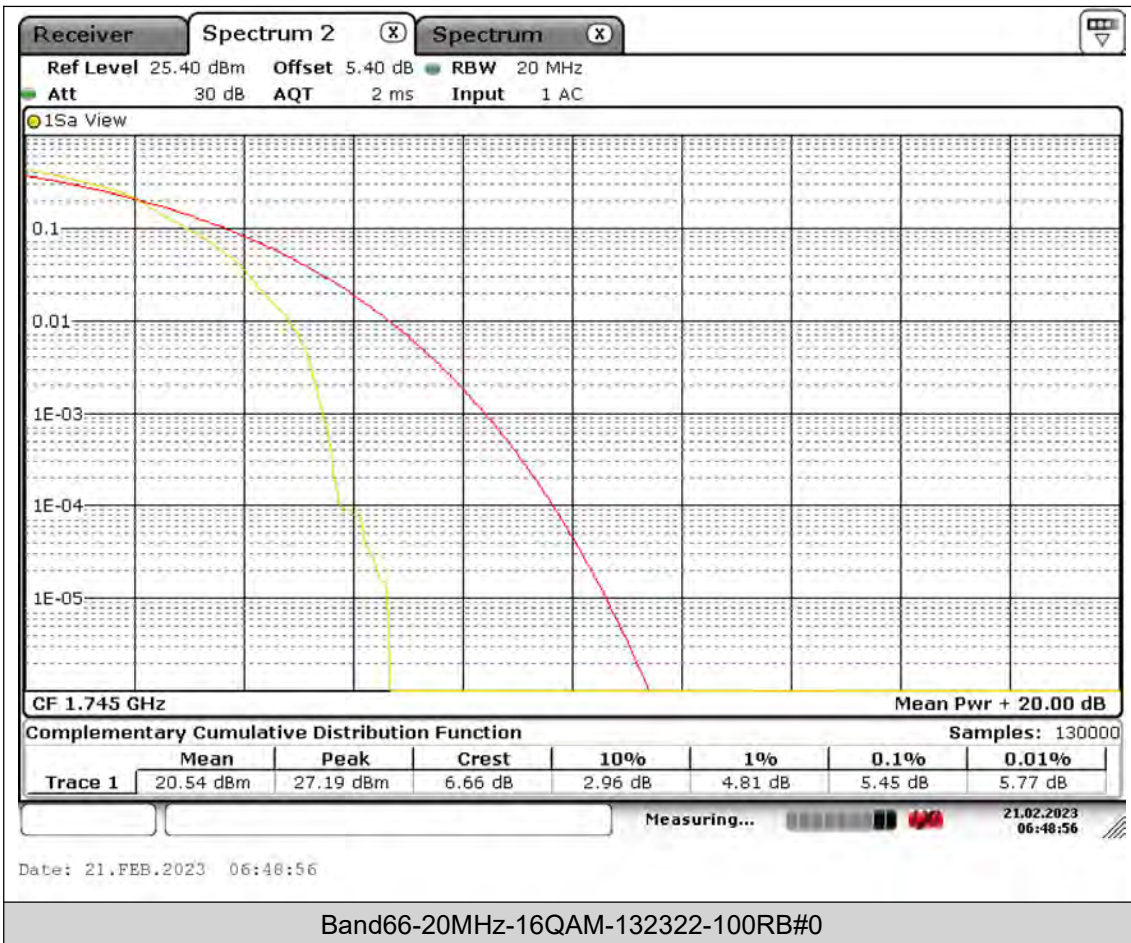
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BUREAU VERITAS

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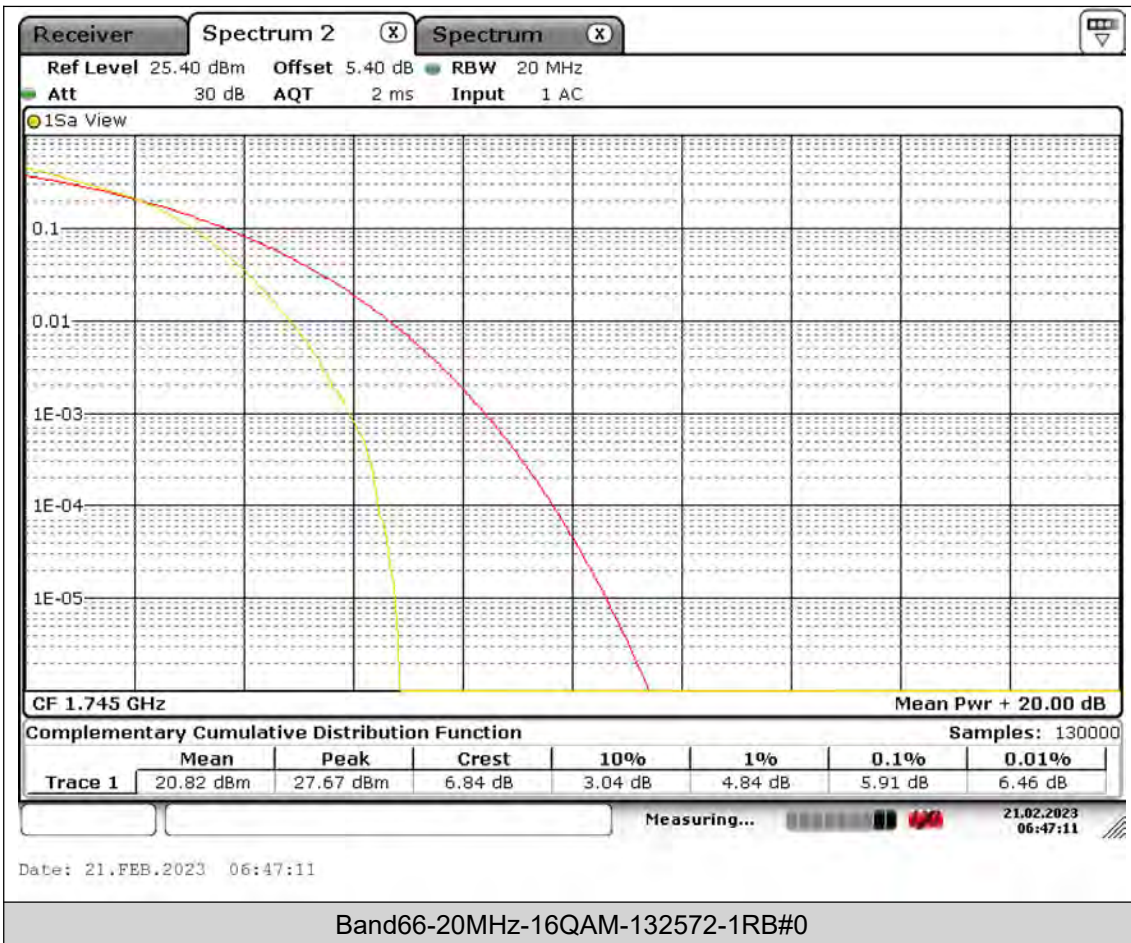






BUREAU VERITAS

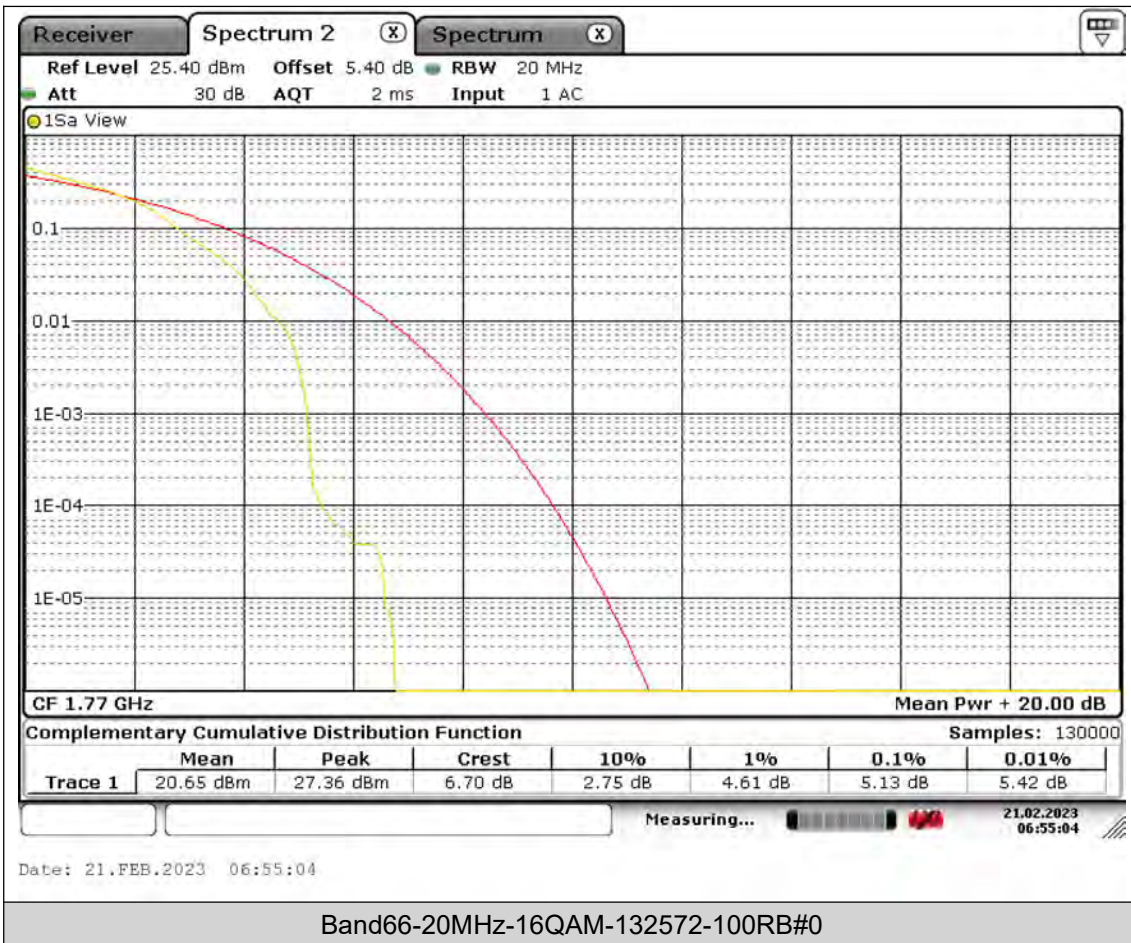
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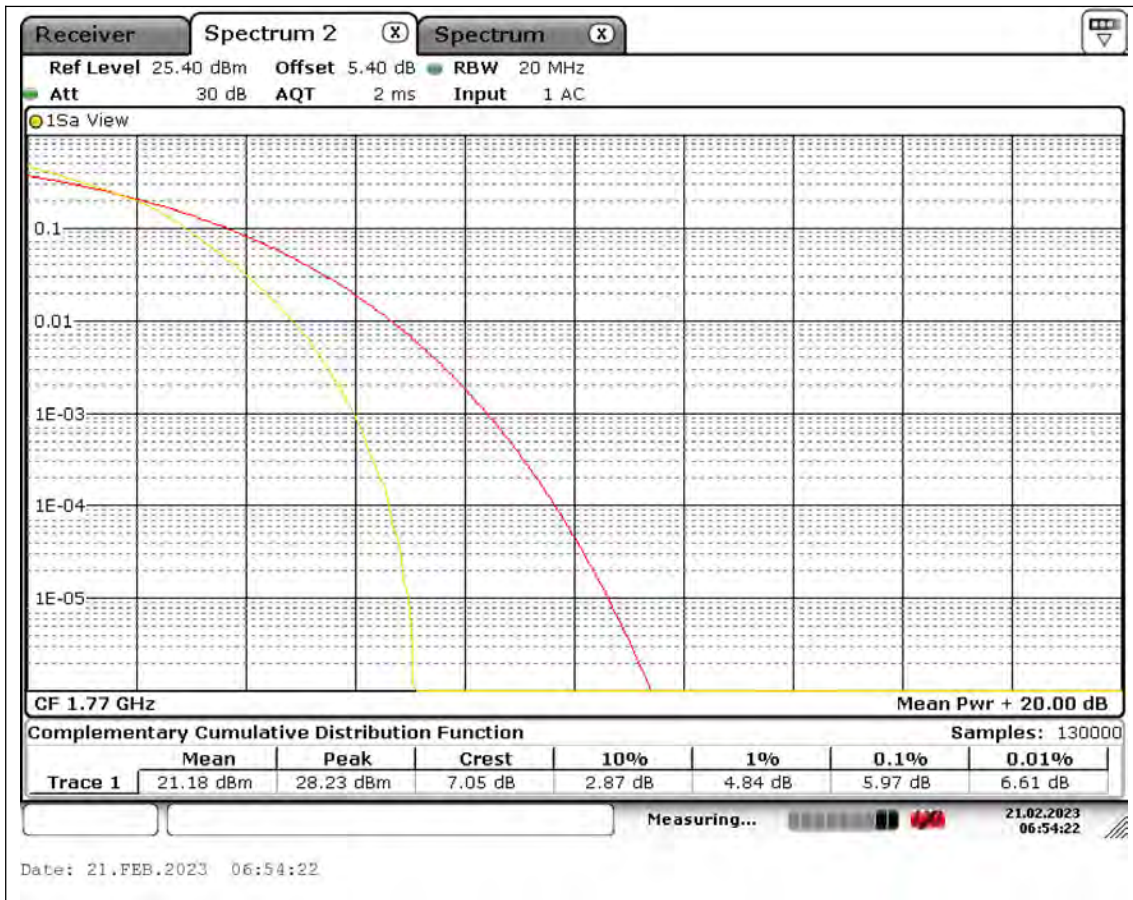
Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03

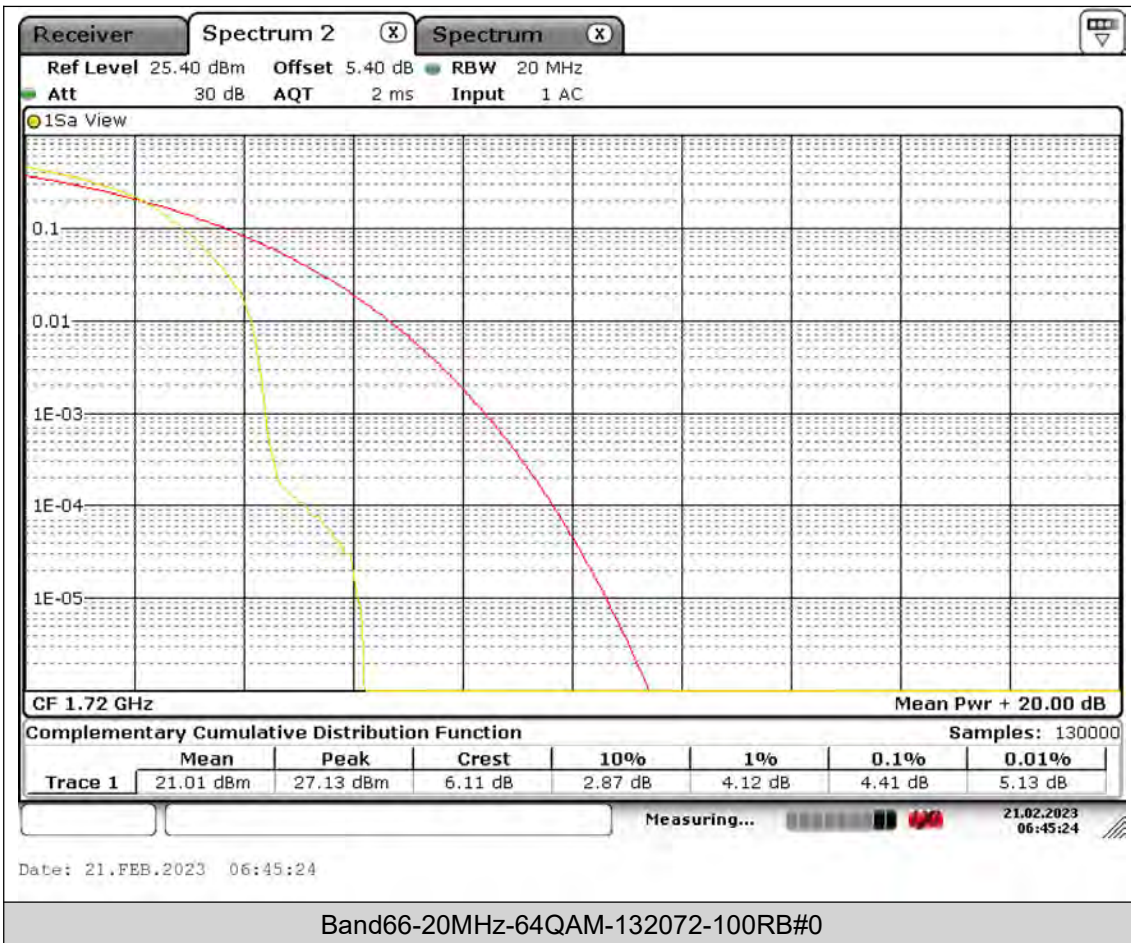


Band66-20MHz-64QAM-132072-1RB#0



BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03





BUREAU VERITAS

Test Report No.: PSU-QSU2308280414RF03

