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Appendix B.13

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.24	22.53	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.26	22.55	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.28	22.57	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.32	21.61	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.22	22.51	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.21	22.50	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.21	22.50	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.26	21.55	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.17	22.46	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.21	22.50	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.15	22.44	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.24	21.53	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.22	21.51	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.28	21.57	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.27	21.56	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.28	20.57	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.32	21.61	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.31	21.60	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.30	21.59	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.31	20.60	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.30	21.59	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.31	21.60	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.33	21.62	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.28	20.57	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.24	22.53	33.00	PASS



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Band41	10MHz	QPSK	39700	1RB#24	23.29	22.58	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.31	22.60	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.35	21.64	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.23	22.52	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.20	22.49	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.24	22.53	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.30	21.59	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.23	22.52	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.19	22.48	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.19	22.48	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.24	21.53	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.27	21.56	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.26	21.55	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.33	21.62	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.36	20.65	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.33	21.62	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.31	21.60	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.30	21.59	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.31	20.60	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.36	21.65	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.32	21.61	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.34	21.63	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.31	20.60	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.23	22.52	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.29	22.58	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.32	22.61	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.35	21.64	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.29	22.58	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.27	22.56	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.26	22.55	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.32	21.61	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.19	22.48	33.00	PASS



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Band41	15MHz	QPSK	41515	1RB#74	23.25	22.54	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.25	21.54	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.24	21.53	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.27	21.56	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.37	21.66	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.36	20.65	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.34	21.63	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.34	21.63	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.36	21.65	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.33	20.62	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.31	21.60	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.37	21.66	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.38	21.67	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.29	20.58	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.21	22.50	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.30	22.59	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.31	22.60	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.37	21.66	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.23	22.52	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.27	22.56	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.22	22.51	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.30	21.59	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.22	22.51	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.25	22.54	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.30	22.59	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.26	21.55	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.22	21.51	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.32	21.61	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.34	21.63	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.34	20.63	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.37	21.66	33.00	PASS



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Band41	20MHz	16QAM	40620	1RB#99	22.32	21.61	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.35	20.64	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.38	21.67	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.37	21.66	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.40	21.69	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.31	20.60	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	7.14	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.50	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	7.64	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.00	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.40	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	8.30	13	PASS



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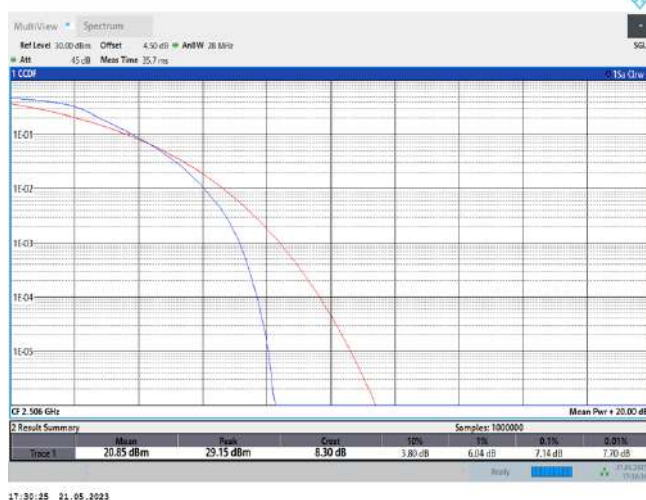
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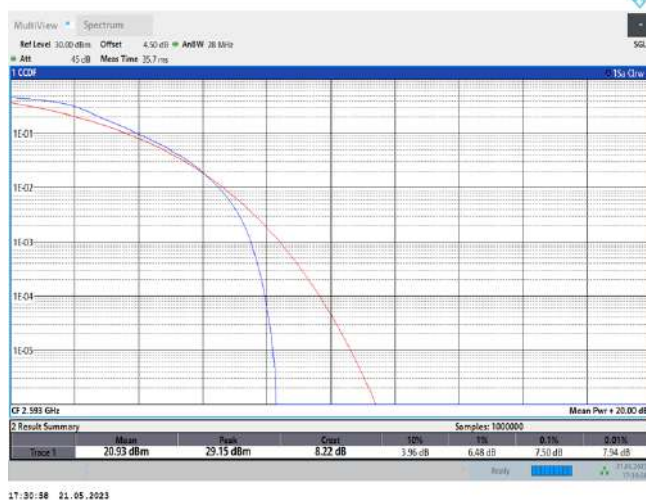
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Test Graphs

Band41-20MHz-QPSK-39750-100RB#0



Band41-20MHz-QPSK-40620-100RB#0



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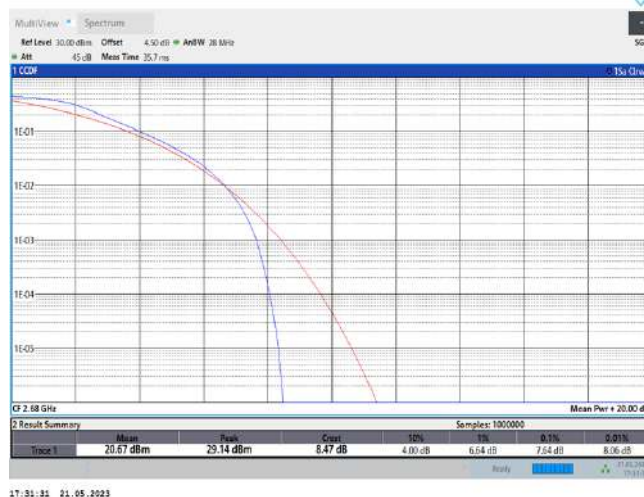
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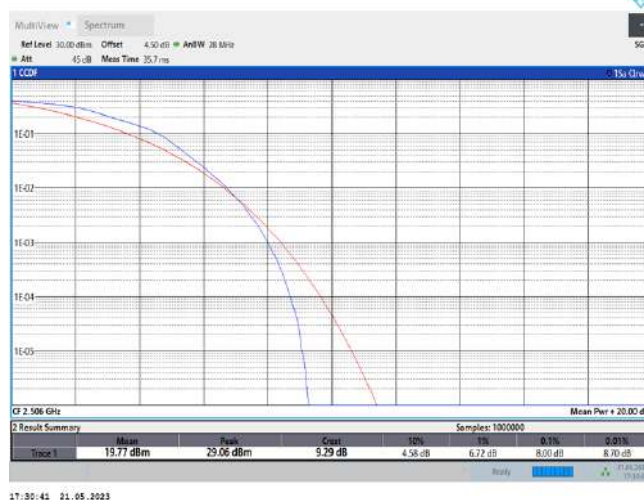
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Band41-20MHz-QPSK-41490-100RB#0



Band41-20MHz-16QAM-39750-100RB#0



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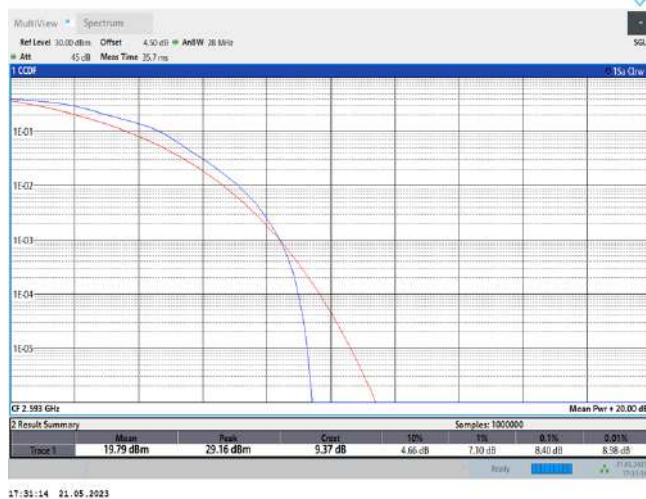
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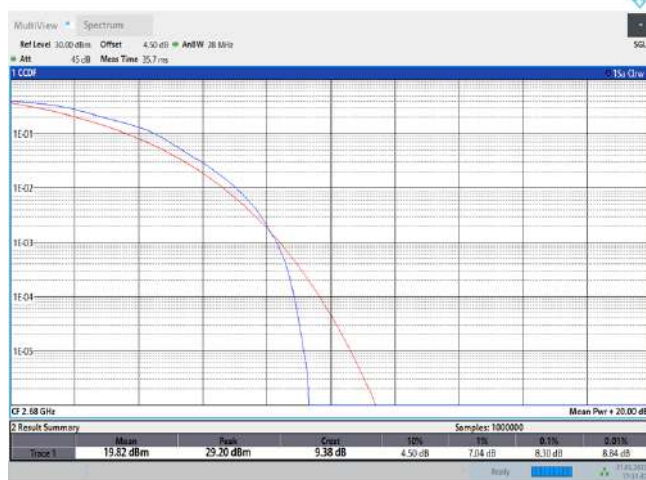
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Band41-20MHz-16QAM-41490-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.476	4.87	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.477	4.87	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.475	4.87	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.474	4.91	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.467	4.65	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.472	4.88	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.919	9.68	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.925	9.72	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.936	9.70	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.913	9.64	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.919	9.60	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.916	9.60	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.451	14.82	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.454	14.82	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.459	14.76	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.449	14.79	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.440	14.70	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.442	14.73	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.846	19.24	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.863	19.32	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.847	19.20	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.873	19.36	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.864	19.24	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.787	19.16	PASS



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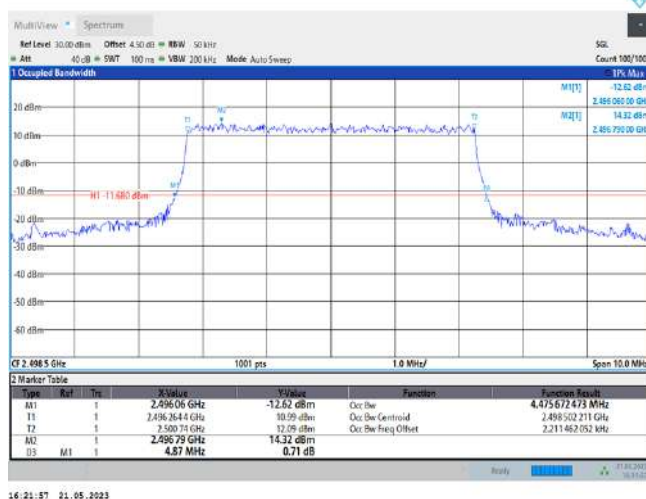
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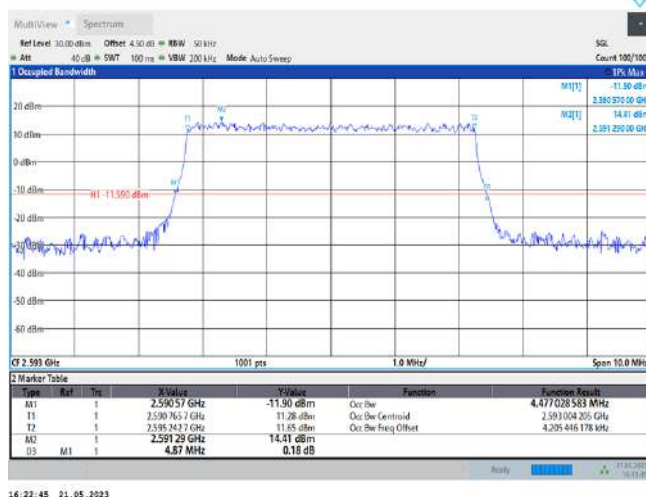
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Test Graphs

Band41-5MHz-QPSK-39675-25RB#0



Band41-5MHz-QPSK-40620-25RB#0



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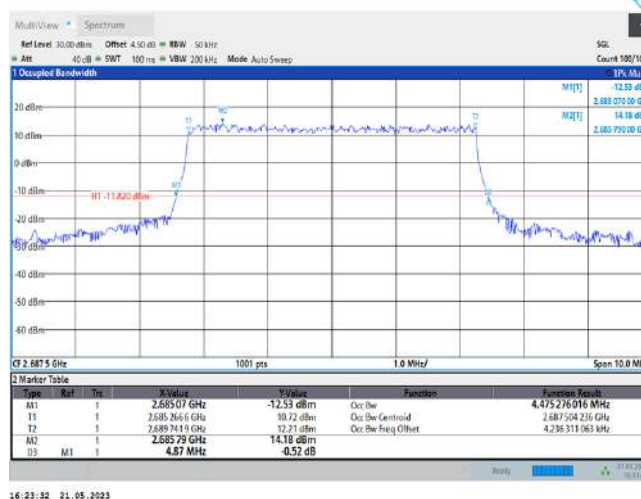
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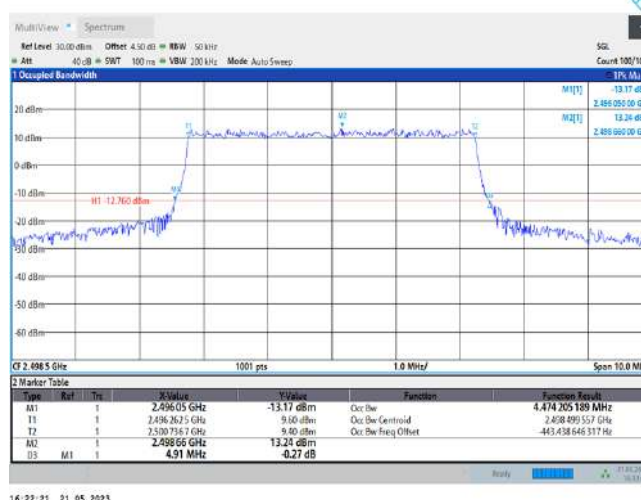
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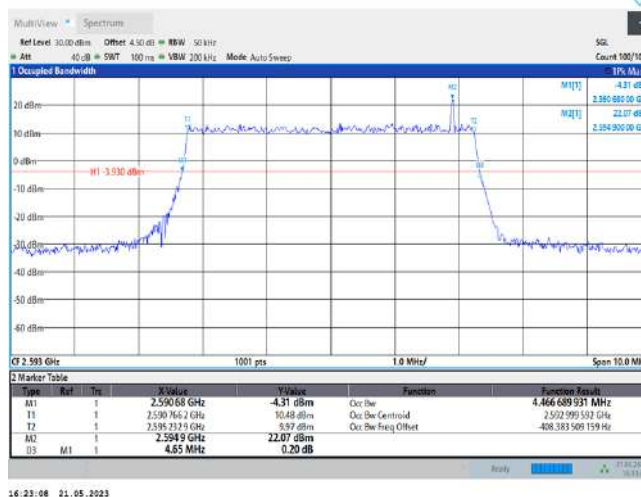
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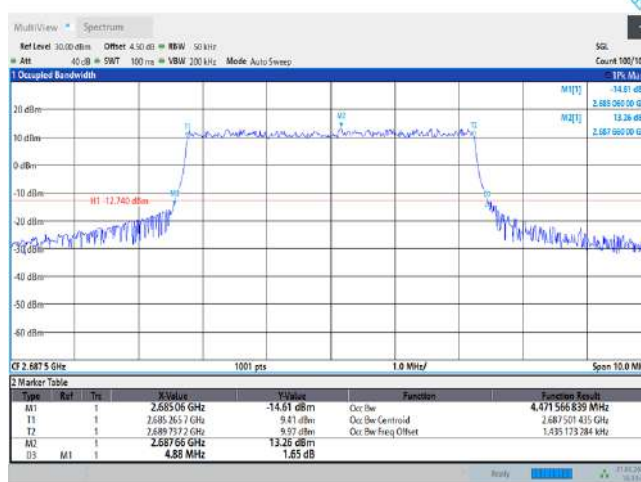
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Band41-5MHz-16QAM-41565-25RB#0



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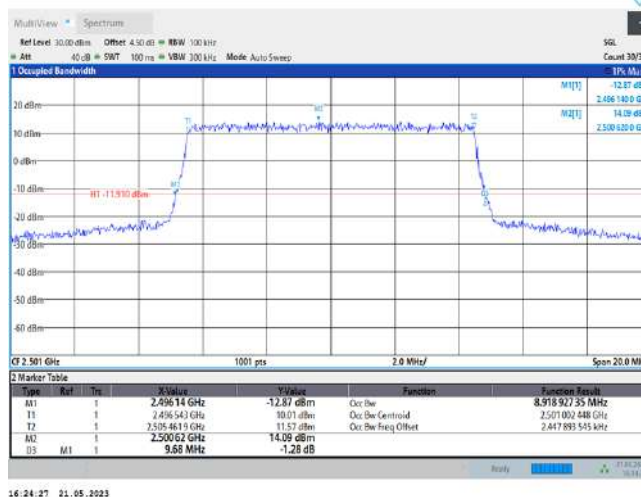
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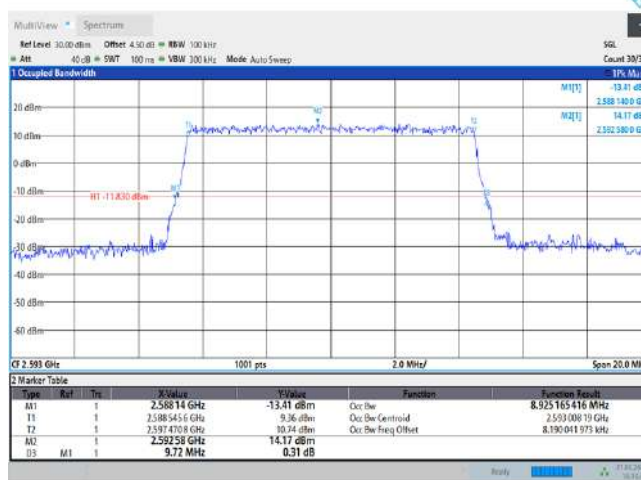
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Band41-10MHz-QPSK-39700-50RB#0



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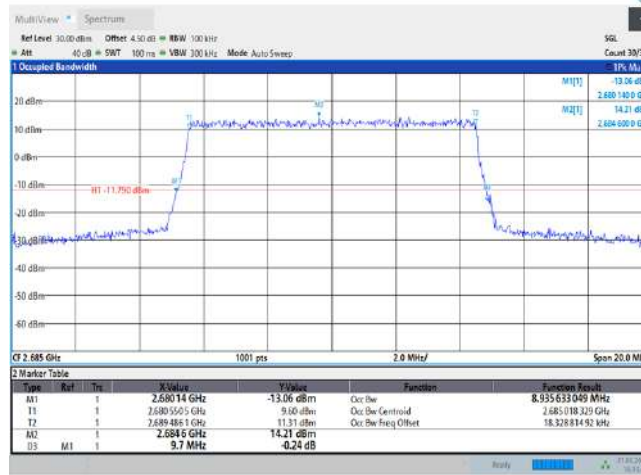
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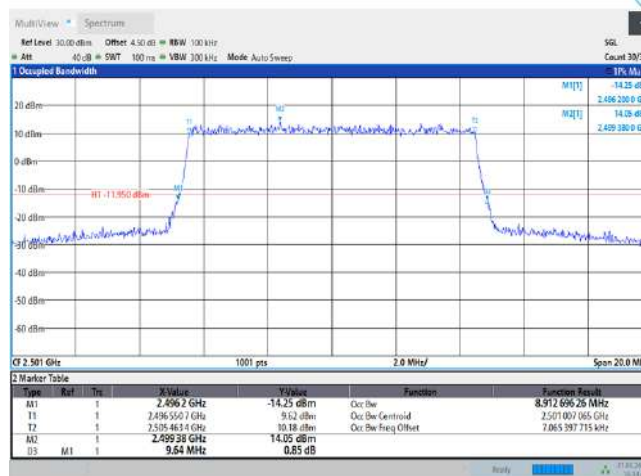
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Band41-10MHz-16QAM-39700-50RB#0



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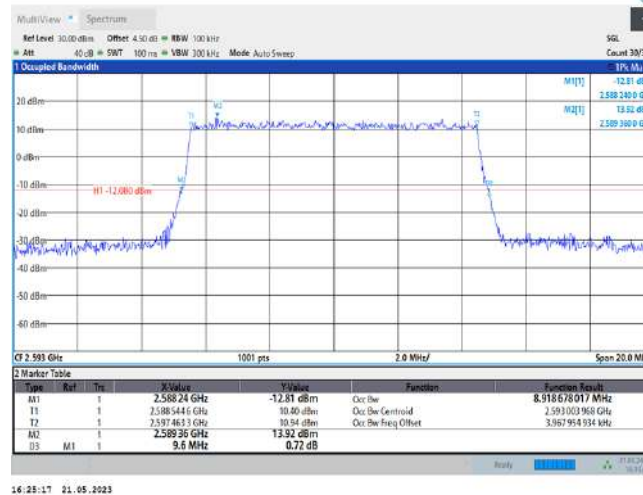
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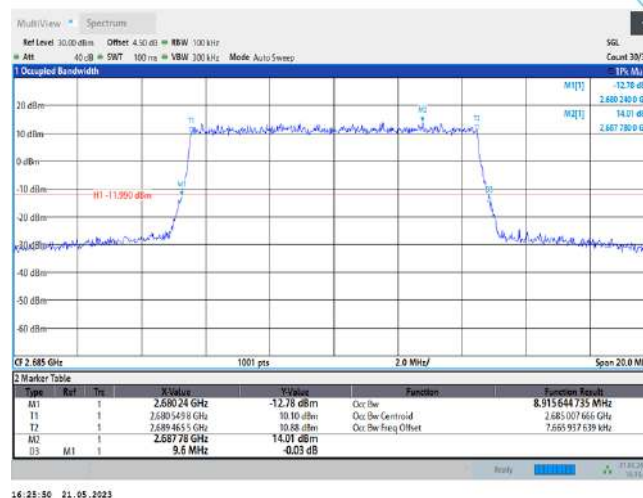
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Band41-10MHz-16QAM-41540-50RB#0



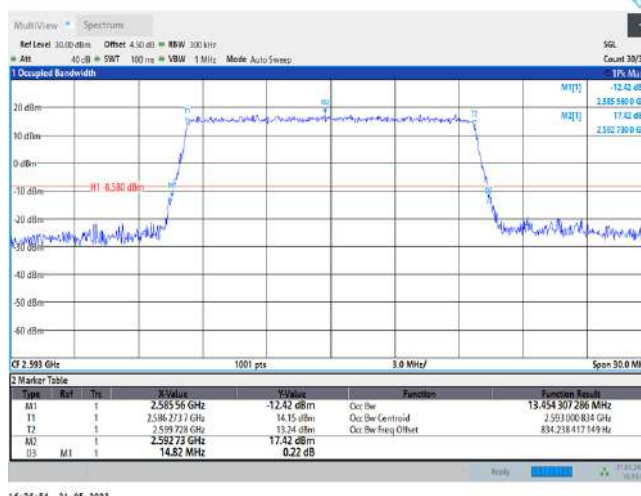
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Band41-15MHz-QPSK-39725-75RB#0



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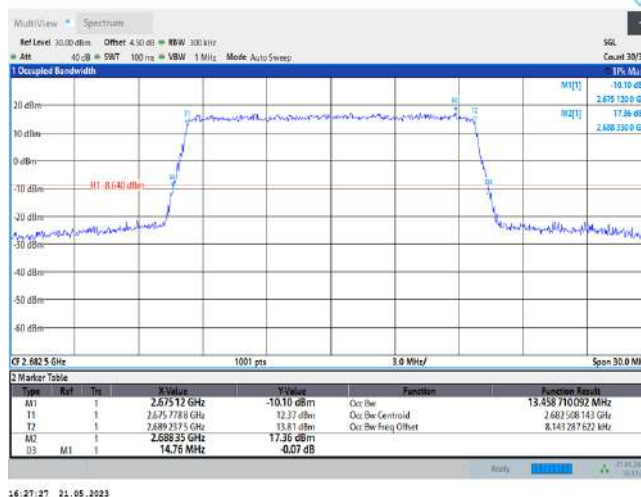


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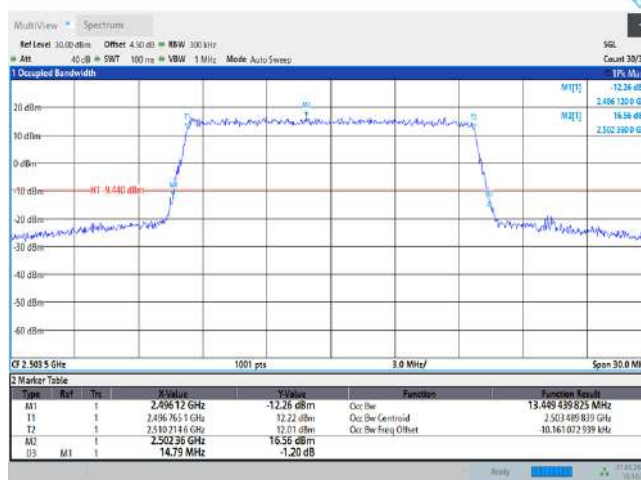
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Band41-15MHz-QPSK-41515-75RB#0



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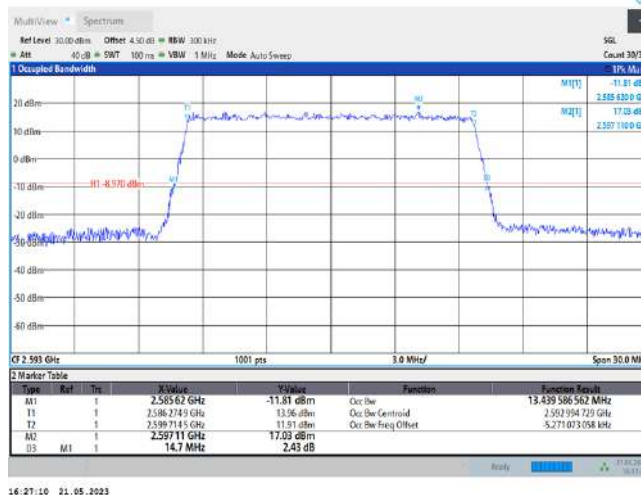
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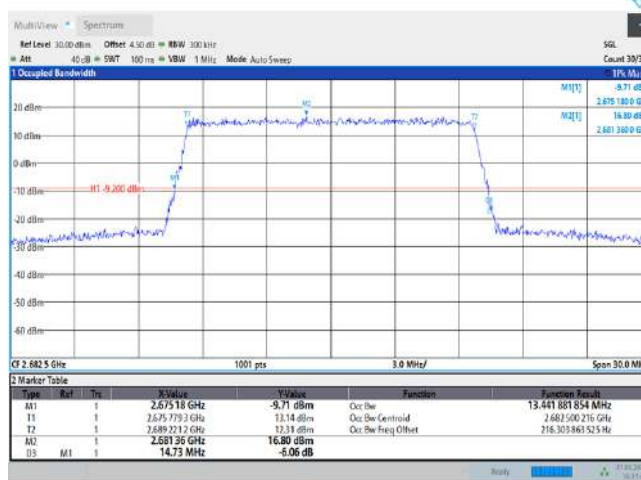
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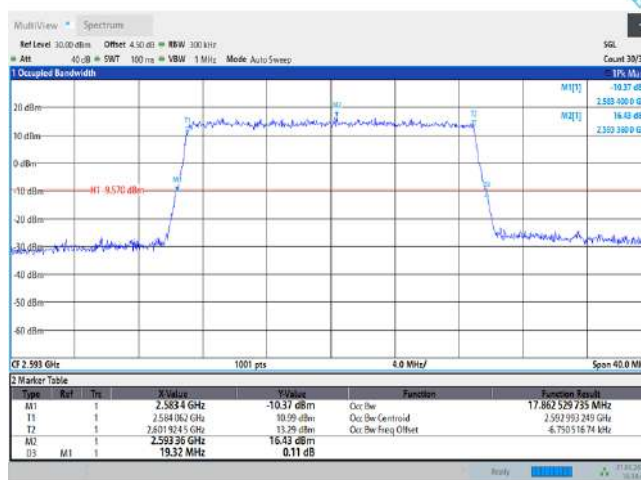
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Band41-20MHz-QPSK-39750-100RB#0



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Band41-20MHz-QPSK-40620-100RB#0



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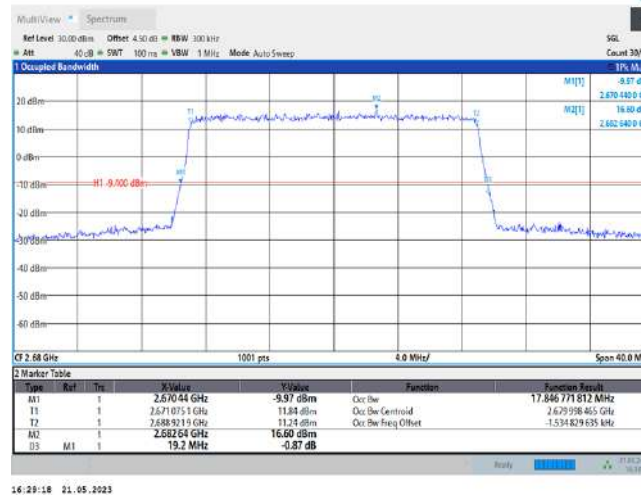
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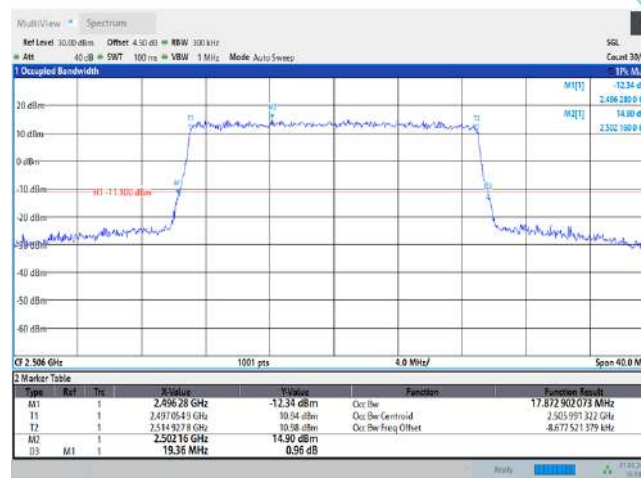
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Band41-20MHz-QPSK-41490-100RB#0



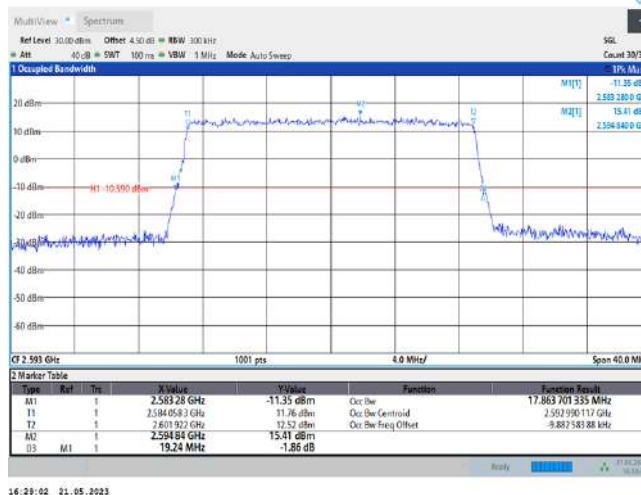
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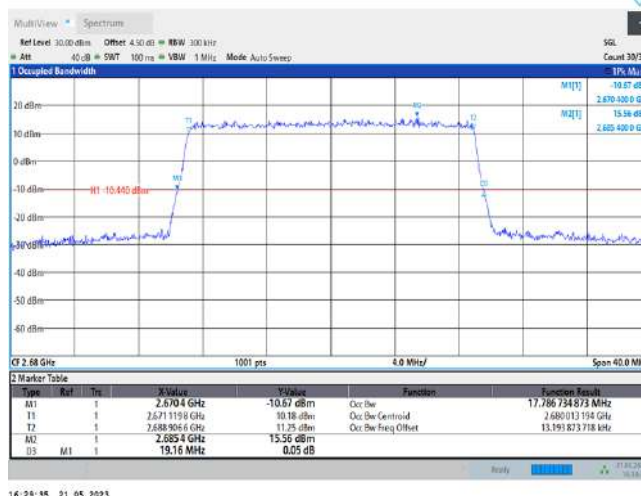


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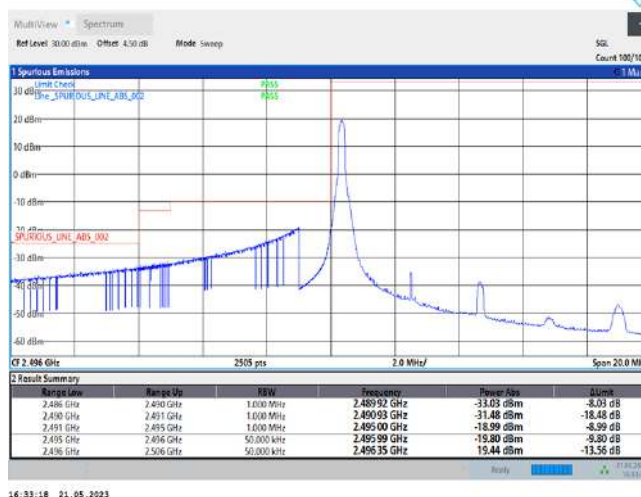
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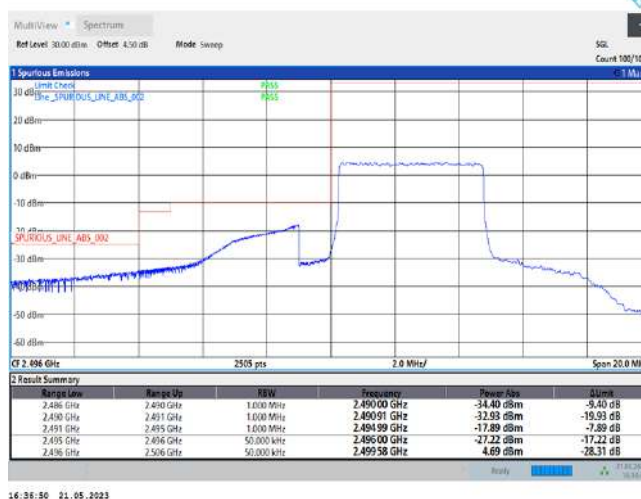
Band Edge

Test Graphs

Band41-5MHz-QPSK-39675-1RB#0



Band41-5MHz-QPSK-39675-25RB#0



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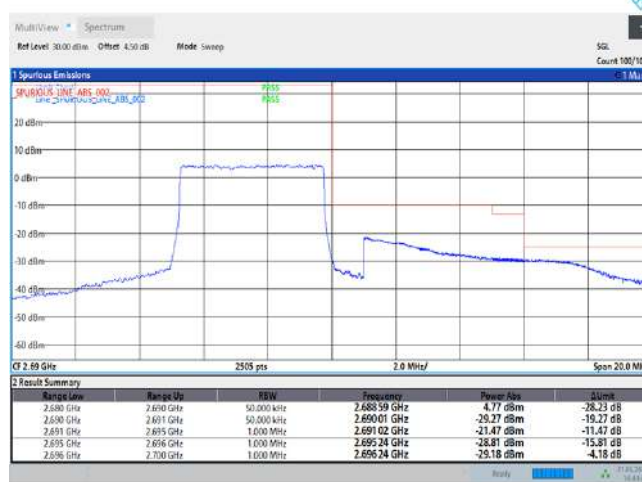
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Band41-5MHz-QPSK-41565-1RB#24



16:40:34 21.05.2023

Band41-5MHz-QPSK-41565-25RB#0



16:44:06 21.05.2023



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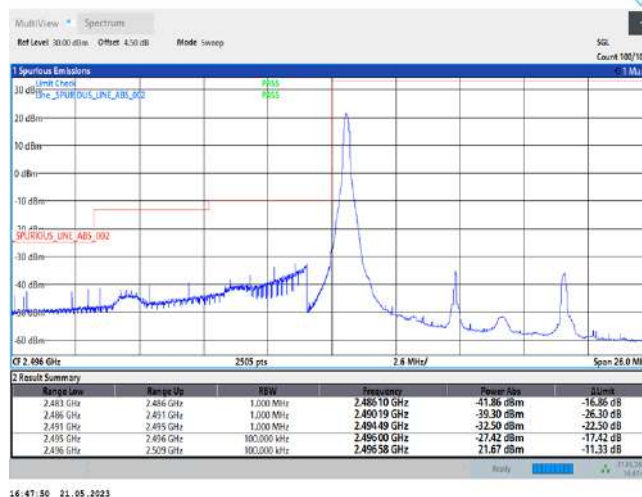
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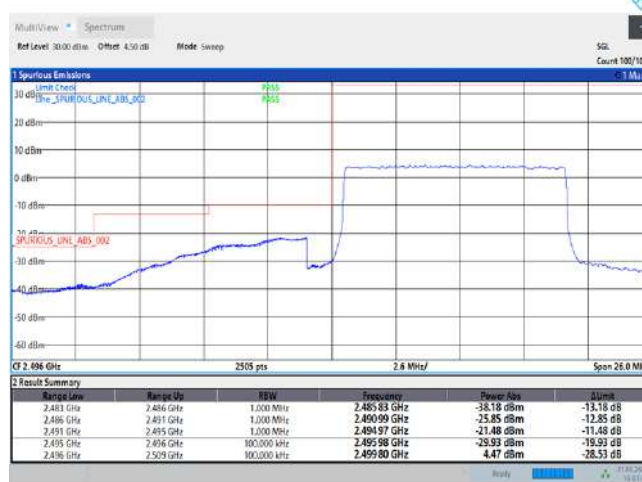
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Band41-10MHz-QPSK-39700-1RB#0



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Band41-10MHz-QPSK-39700-50RB#0



16:51:19 21.05.2023



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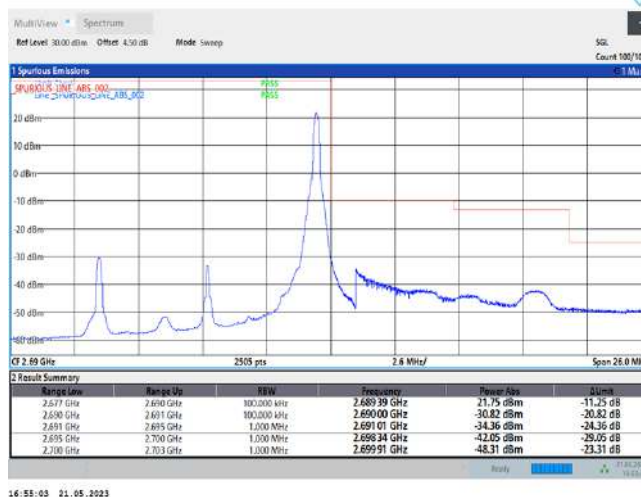
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Band41-10MHz-QPSK-41540-1RB#49



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Band41-10MHz-QPSK-41540-50RB#0



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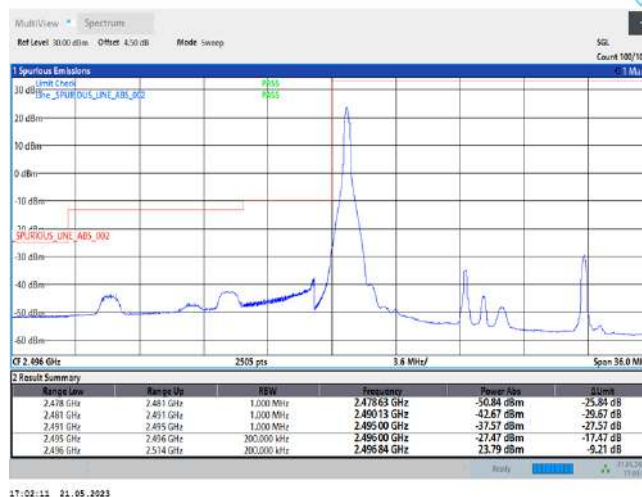
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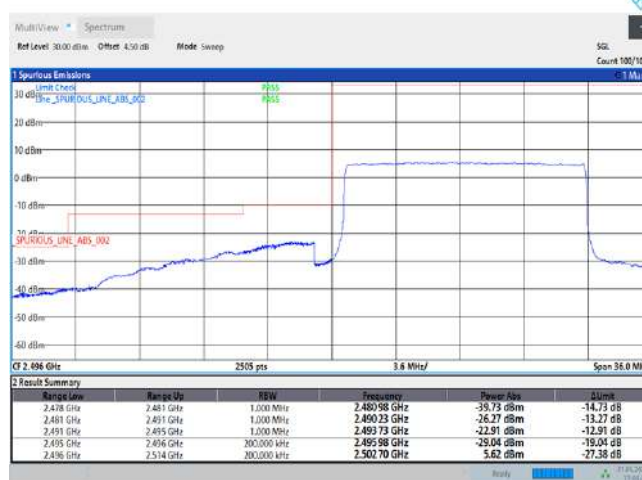
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Band41-15MHz-QPSK-39725-1RB#0



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Band41-15MHz-QPSK-39725-75RB#0



17:08:36 21.05.2023



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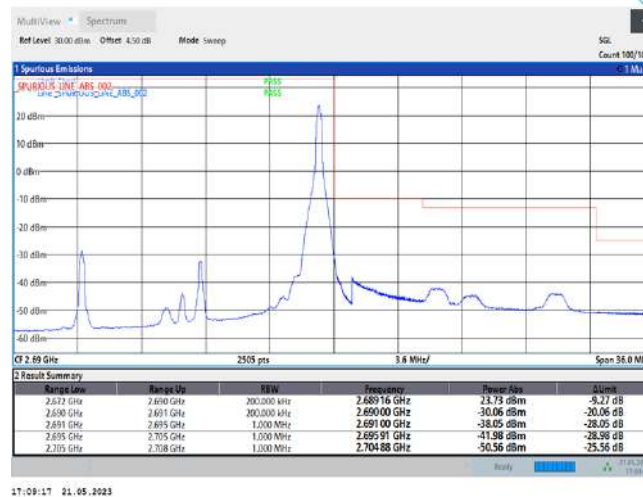
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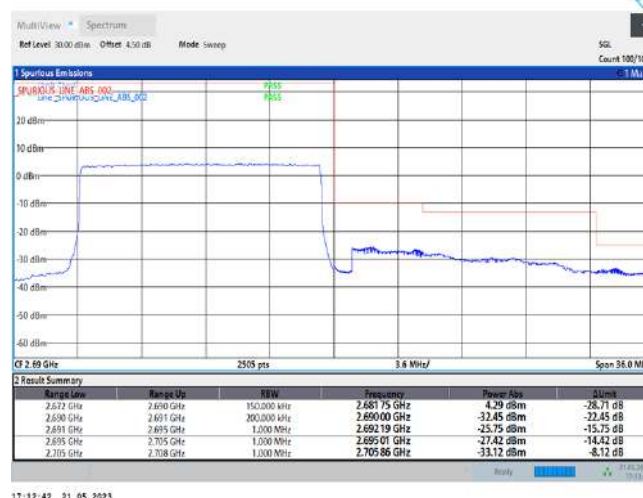
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Band41-15MHz-QPSK-41515-1RB#74



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Band41-15MHz-QPSK-41515-75RB#0



17:12:42 21.05.2023



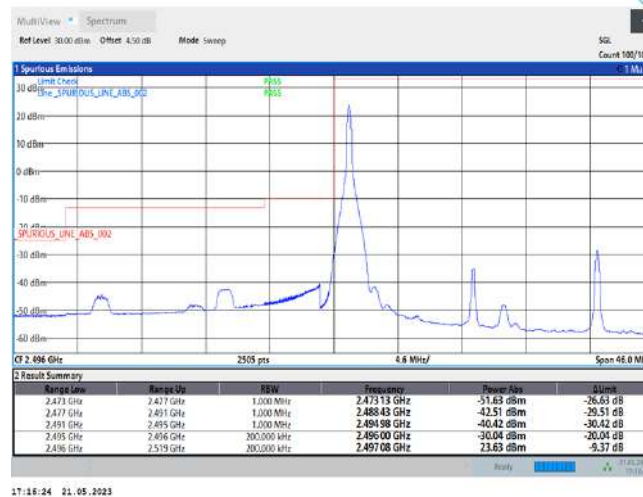
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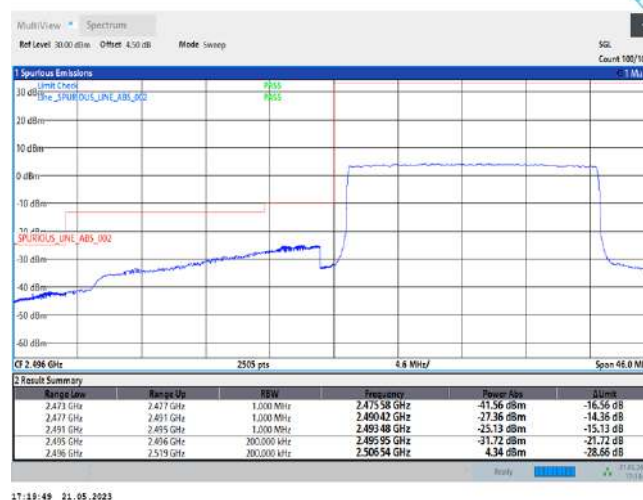
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Band41-20MHz-QPSK-39750-1RB#0



Band41-20MHz-QPSK-39750-100RB#0

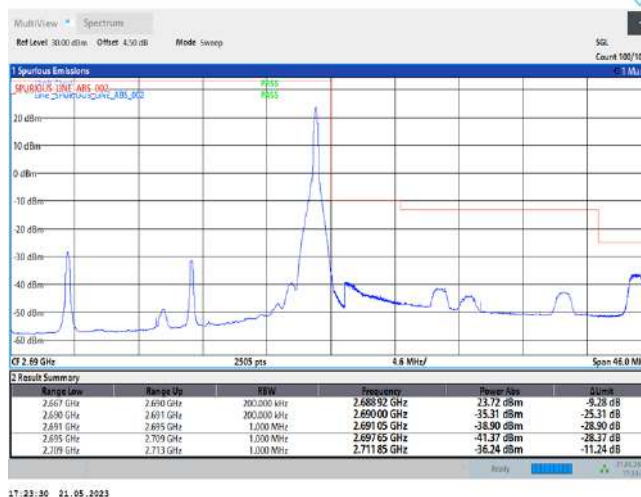


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Band41-20MHz-QPSK-41490-1RB#99



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



17:26:55 21.05.2023



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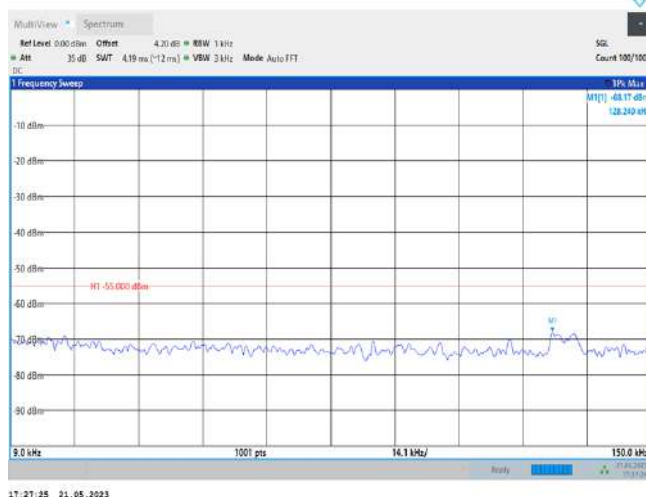
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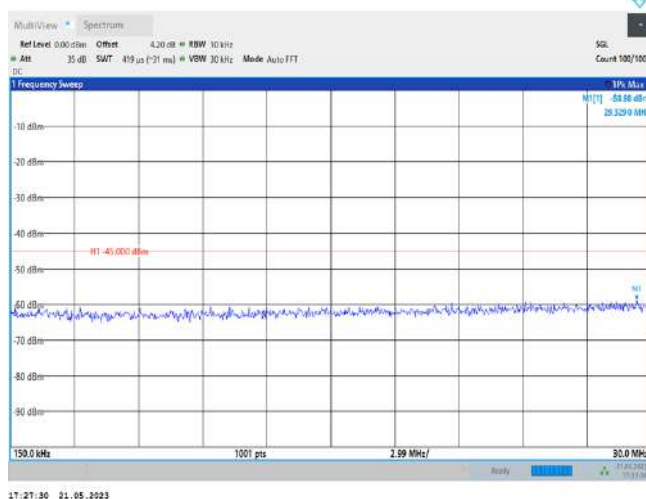
Conducted Spurious Emission

Test Graphs

Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



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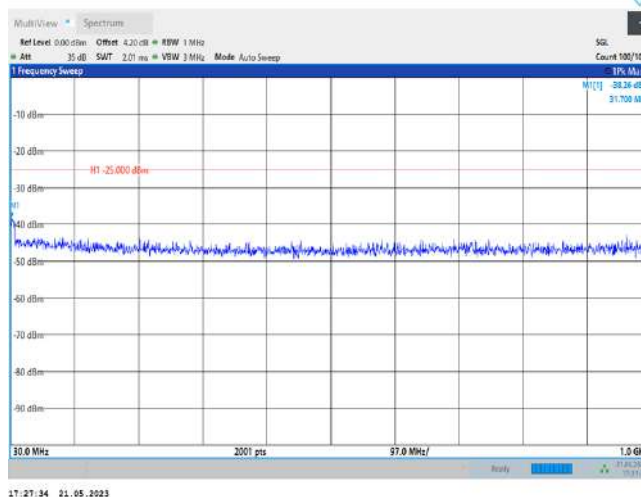
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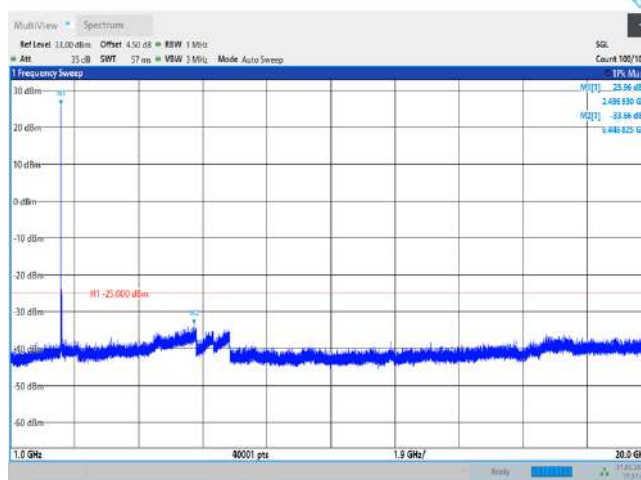
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



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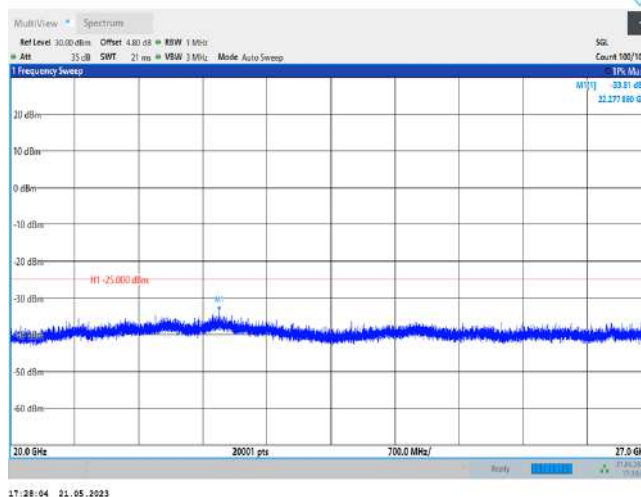
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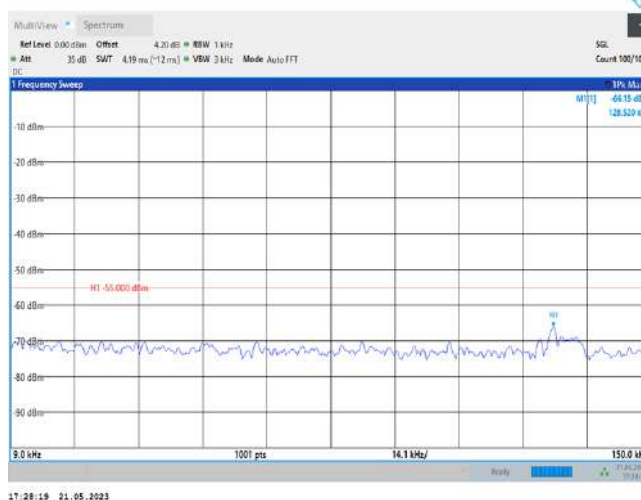
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



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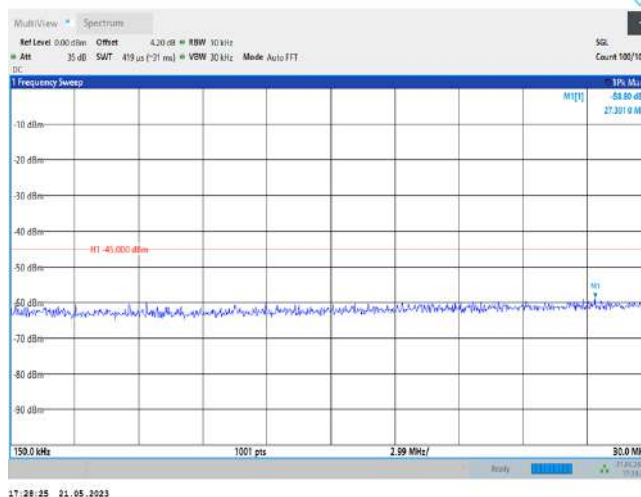
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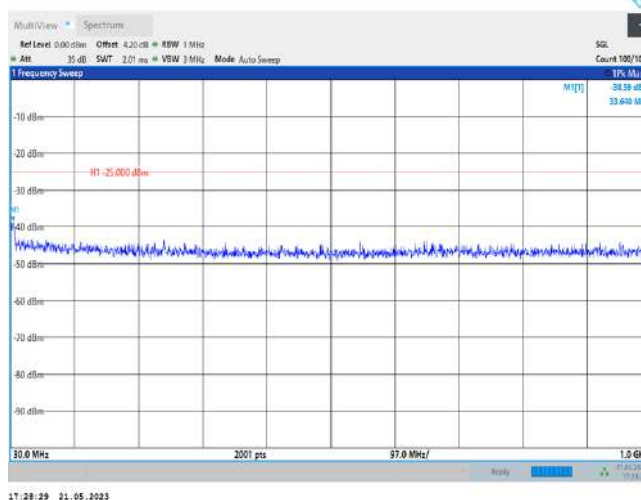
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



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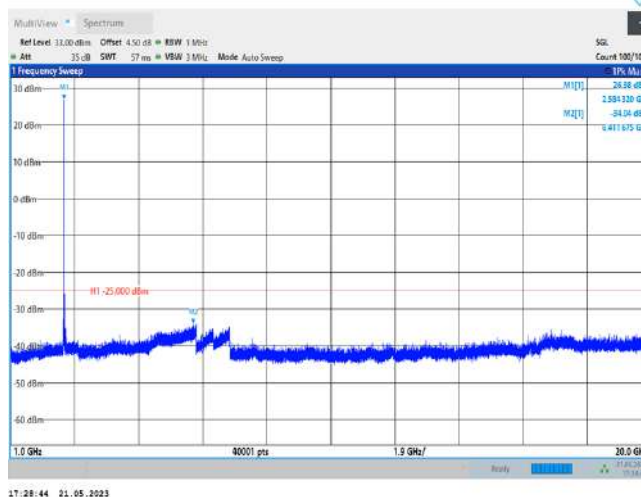
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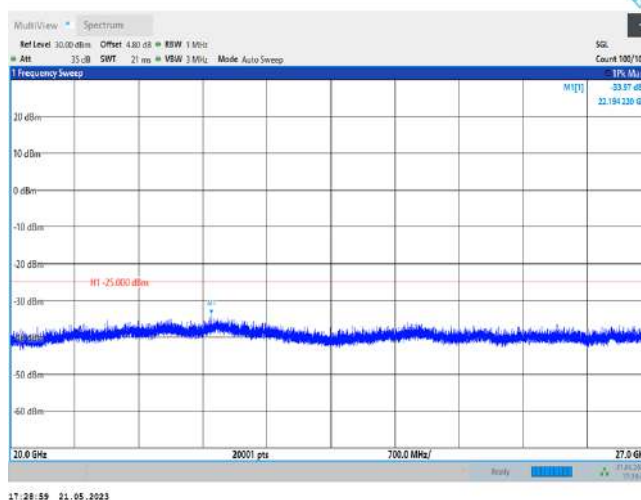
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



Band41-20MHz-QPSK-40620-1RB#0-Range5:20000~27000MHz



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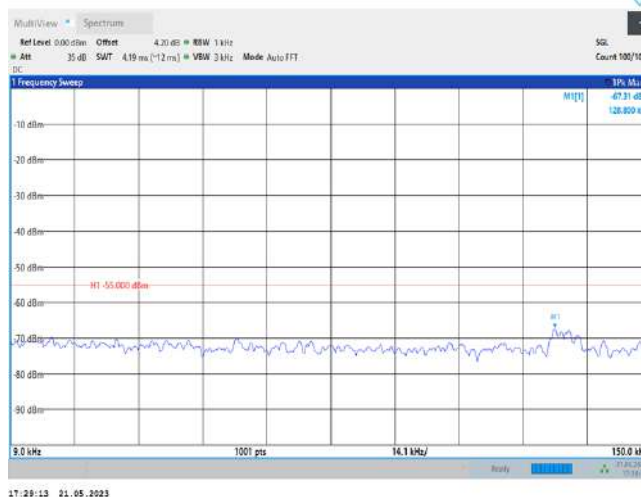
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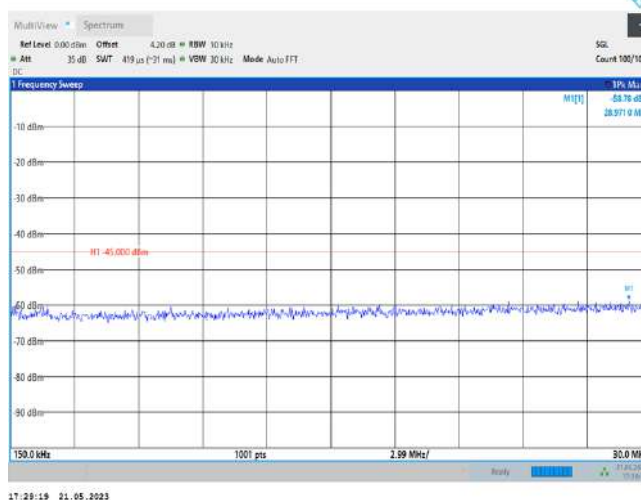
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



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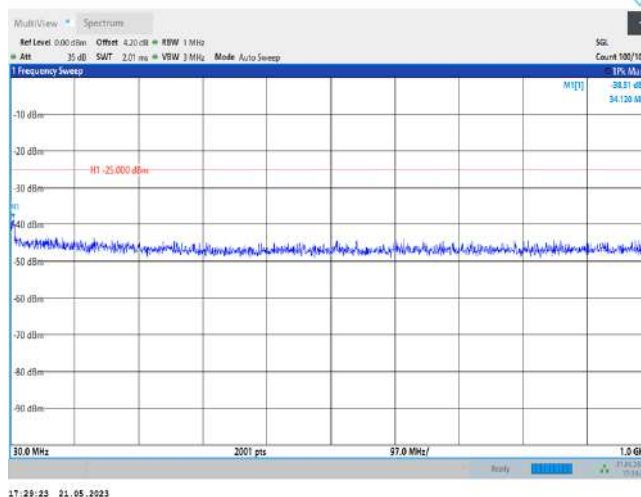
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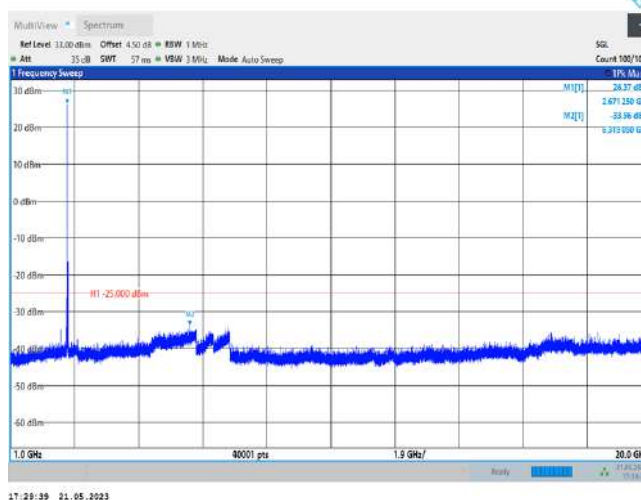
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz



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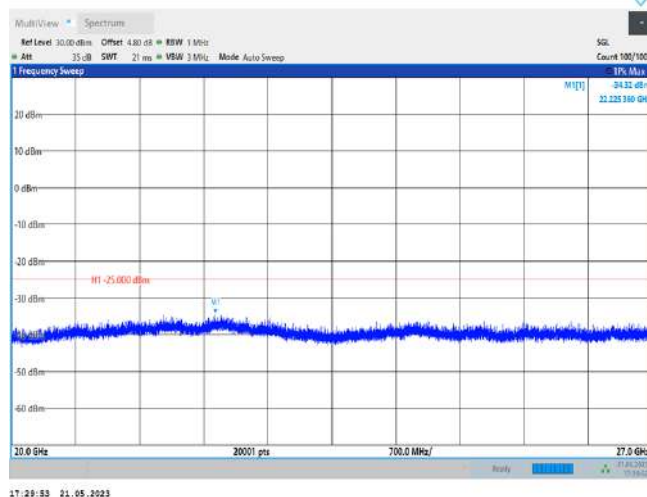
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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation**Test Band = LTE Band 41_20MHz_TM1****Test Channel = Low Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.18	47.45	-44.94	32.59	-60.16	-25.00	35.16	296	174	Horizontal
2	7491.27	39.48	-41.63	36.49	-60.92	-25.00	35.92	265	27	Horizontal
3	9988.36	37.62	-37.16	38.50	-56.30	-25.00	31.30	284	1	Horizontal
4	12485.45	36.38	-35.26	39.09	-55.05	-25.00	30.05	142	321	Horizontal
5	14982.54	31.96	-33.99	39.22	-58.07	-25.00	33.07	255	155	Horizontal
6	17479.63	29.71	-31.91	40.52	-56.94	-25.00	31.94	263	0	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	12485.5	49.02	-35.26	39.09	-42.41	-25.00	17.41	196	194	Vertical
2	14982.5	44.88	-33.99	39.22	-45.15	-25.00	20.15	265	94	Vertical
3	4994.18	58.76	-44.94	32.59	-48.85	-25.00	23.85	284	282	Vertical
4	7491.27	45.56	-41.63	36.49	-54.84	-25.00	29.84	142	51	Vertical
5	9988.36	45.84	-37.16	38.50	-48.08	-25.00	23.08	145	217	Vertical
6	17479.63	30.80	-31.91	40.52	-55.85	-25.00	30.85	225	320	Vertical



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Test Band = LTE Band 41_20MHz_TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168	60.25	-44.19	32.60	-46.60	-25.00	21.60	196	8	Horizontal
2	7752.5	46.01	-40.96	37.01	-53.20	-25.00	28.20	265	126	Horizontal
3	10336.5	44.46	-36.70	38.87	-48.63	-25.00	23.63	284	234	Horizontal
4	12920.5	38.11	-34.87	39.52	-52.50	-25.00	27.50	142	167	Horizontal
5	15504.5	37.69	-34.16	38.54	-53.18	-25.00	28.18	263	234	Horizontal
6	17933.5	32.63	-31.18	42.33	-51.48	-25.00	26.48	224	254	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168	62.07	-44.19	32.60	-44.78	-25.00	19.78	265	41	Vertical
2	7752	44.85	-40.96	37.00	-54.37	-25.00	29.37	254	231	Vertical
3	10336.5	48.30	-36.70	38.87	-44.79	-25.00	19.79	142	298	Vertical
4	12920.5	43.07	-34.87	39.52	-47.54	-25.00	22.54	263	274	Vertical
5	15504.5	36.88	-34.16	38.54	-53.99	-25.00	28.99	228	147	Vertical
6	17922.5	32.72	-31.14	42.29	-51.39	-25.00	26.39	325	190	Vertical



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Test Band = LTE Band 41_20MHz_TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5255	55.68	-44.07	32.60	-51.05	-25.00	26.05	196	173	Horizontal
2	7883	44.61	-40.65	37.27	-54.04	-25.00	29.04	265	130	Horizontal
3	10510	42.27	-36.37	39.06	-50.30	-25.00	25.30	284	173	Horizontal
4	13137.5	39.25	-34.60	39.68	-50.92	-25.00	25.92	142	88	Horizontal
5	16393	33.14	-31.88	38.18	-55.82	-25.00	30.82	263	338	Horizontal
6	17835.5	32.67	-30.90	41.94	-51.55	-25.00	26.55	228	235	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5255	62.18	-44.07	32.60	-44.55	-25.00	19.55	196	300	Vertical
2	7882.5	47.37	-40.65	37.27	-51.28	-25.00	26.28	265	255	Vertical
3	10510	45.69	-36.37	39.06	-46.88	-25.00	21.88	284	255	Vertical
4	13138	37.37	-34.60	39.68	-52.80	-25.00	27.80	142	234	Vertical
5	15765.5	37.83	-34.12	38.20	-53.35	-25.00	28.35	263	153	Vertical
6	17411	32.74	-31.98	40.24	-54.26	-25.00	29.26	228	0	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	3.80	0.001465	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	0.80	0.000309	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	12.60	0.004859	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	10.40	0.004011	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	12.30	0.004744	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	9.20	0.003548	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	7.70	0.002970	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	9.20	0.003548	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	12.50	0.004821	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	7.20	0.002777	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	10.10	0.003895	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	13.20	0.005091	PASS

---End of Attachment---



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