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Appendix B.16

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.53	26.13	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.64	26.24	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.59	26.19	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.37	24.97	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.72	26.32	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.78	26.38	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.72	26.32	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.52	25.12	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.83	26.43	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.65	26.25	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.42	26.02	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.59	25.19	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.41	25.01	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.43	25.03	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.46	25.06	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.40	24.00	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.59	25.19	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.58	25.18	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.58	25.18	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.54	24.14	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.54	25.14	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.58	25.18	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.58	25.18	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.62	24.22	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#0	21.05	23.65	33.00	PASS



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Band41	5MHz	64QAM	39675	1RB#12	21.07	23.67	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#24	21.07	23.67	33.00	PASS
Band41	5MHz	64QAM	39675	25RB#0	20.41	23.01	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#0	21.22	23.82	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#12	21.20	23.80	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.18	23.78	33.00	PASS
Band41	5MHz	64QAM	40620	25RB#0	20.55	23.15	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#0	21.31	23.91	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#12	21.36	23.96	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#24	21.35	23.95	33.00	PASS
Band41	5MHz	64QAM	41565	25RB#0	20.61	23.21	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.37	25.97	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.59	26.19	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.59	26.19	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.40	25.00	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.59	26.19	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.69	26.29	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.67	26.27	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.49	25.09	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.68	26.28	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.73	26.33	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.44	26.04	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.59	25.19	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.38	24.98	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.48	25.08	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.44	25.04	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.39	23.99	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.48	25.08	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.56	25.16	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.51	25.11	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.49	24.09	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.48	25.08	33.00	PASS



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Band41	10MHz	16QAM	41540	1RB#49	22.53	25.13	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.60	24.20	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#0	21.00	23.60	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#24	21.07	23.67	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#49	21.06	23.66	33.00	PASS
Band41	10MHz	64QAM	39700	50RB#0	20.34	22.94	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#0	21.07	23.67	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#24	21.17	23.77	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#49	21.11	23.71	33.00	PASS
Band41	10MHz	64QAM	40620	50RB#0	20.46	23.06	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#0	21.18	23.78	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#24	21.27	23.87	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#49	21.26	23.86	33.00	PASS
Band41	10MHz	64QAM	41540	50RB#0	20.54	23.14	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.40	26.00	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.59	26.19	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.54	26.14	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.41	25.01	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.54	26.14	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.68	26.28	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.65	26.25	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.49	25.09	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.57	26.17	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.71	26.31	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.76	26.36	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.53	25.13	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.36	24.96	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.49	25.09	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.46	25.06	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.42	24.02	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.43	25.03	33.00	PASS



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Band41	15MHz	16QAM	40620	1RB#38	22.58	25.18	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.53	25.13	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.49	24.09	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.40	25.00	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.48	25.08	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.53	25.13	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.52	24.12	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	20.94	23.54	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#38	21.08	23.68	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#74	21.05	23.65	33.00	PASS
Band41	15MHz	64QAM	39725	75RB#0	20.40	23.00	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#0	21.04	23.64	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#38	21.18	23.78	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#74	21.13	23.73	33.00	PASS
Band41	15MHz	64QAM	40620	75RB#0	20.45	23.05	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#0	21.06	23.66	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#38	21.17	23.77	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#74	21.23	23.83	33.00	PASS
Band41	15MHz	64QAM	41515	75RB#0	20.48	23.08	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.40	26.00	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.61	26.21	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.51	26.11	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.38	24.98	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.46	26.06	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.66	26.26	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.58	26.18	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.46	25.06	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.48	26.08	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.71	26.31	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.37	25.97	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.51	25.11	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.27	24.87	33.00	PASS



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Band41	20MHz	16QAM	39750	1RB#99	22.39	24.99	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.38	23.98	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.35	24.95	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.52	25.12	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.47	25.07	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.47	24.07	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.29	24.89	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.46	25.06	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.47	25.07	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.51	24.11	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#0	20.87	23.47	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#49	21.12	23.72	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#99	20.98	23.58	33.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	20.34	22.94	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#0	20.93	23.53	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#49	21.14	23.74	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.07	23.67	33.00	PASS
Band41	20MHz	64QAM	40620	100RB#0	20.43	23.03	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#0	20.95	23.55	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#49	21.14	23.74	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#99	21.17	23.77	33.00	PASS
Band41	20MHz	64QAM	41490	100RB#0	20.46	23.06	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	7.40	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.44	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	6.94	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.14	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.04	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.82	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.50	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.42	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.28	13	PASS



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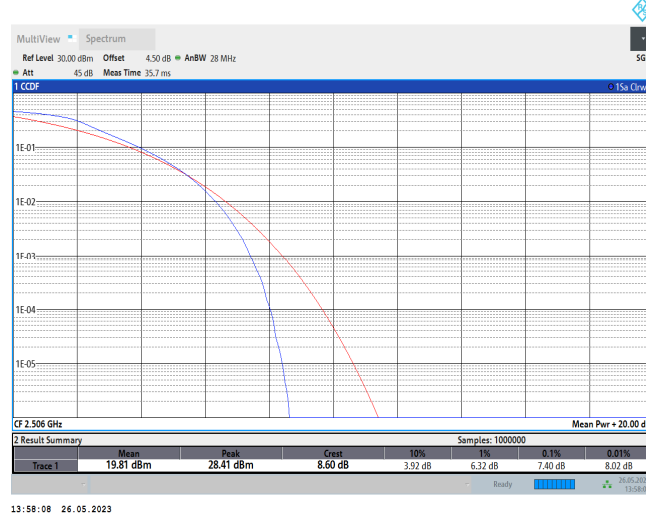
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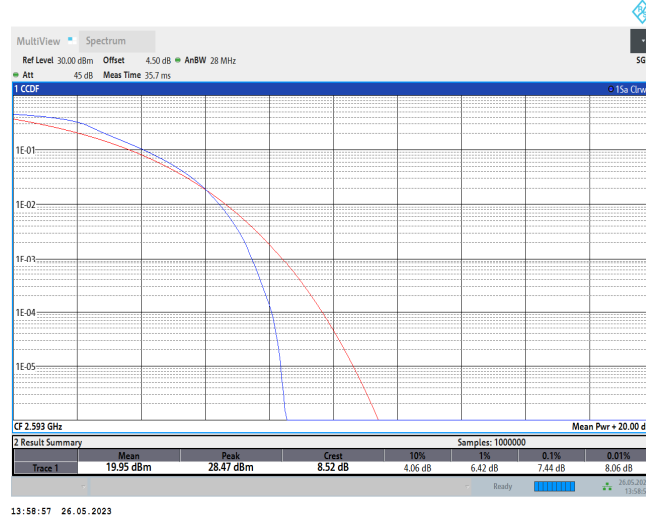
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Test Graphs

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



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



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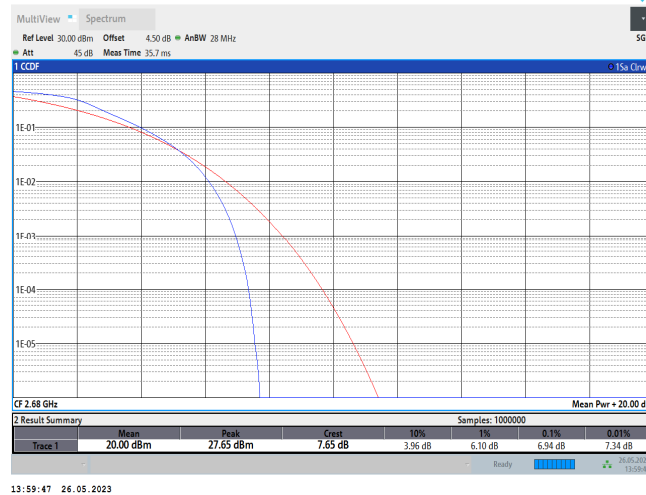
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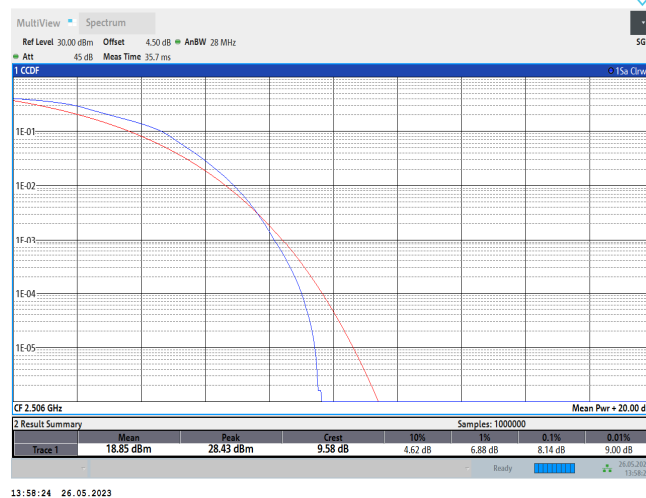
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Band41-20MHz-QPSK-41490-100RB#0



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



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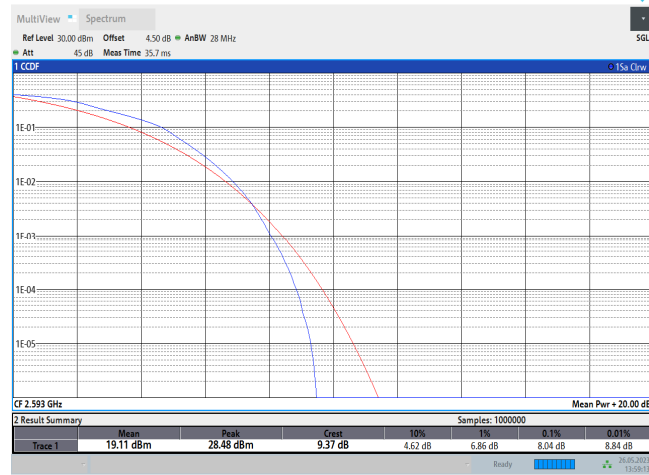
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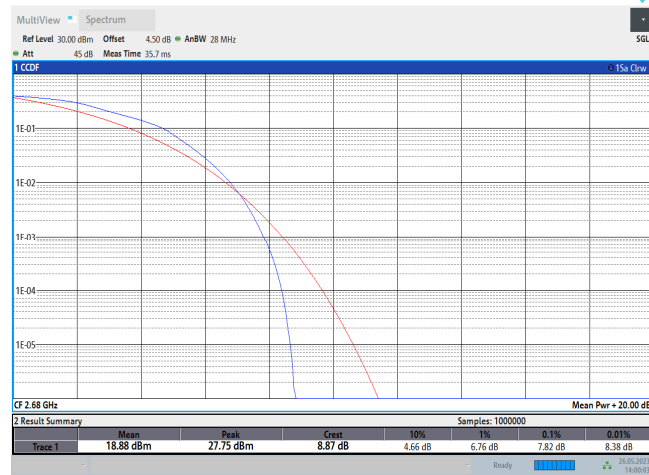
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Band41-20MHz-16QAM-40620-100RB#0



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



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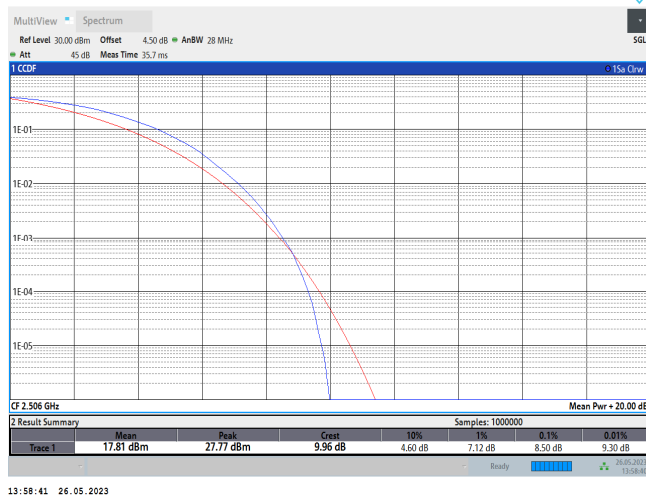
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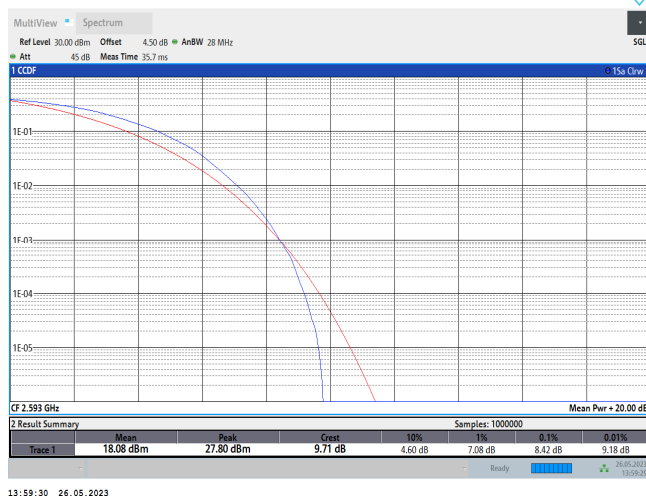
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Band41-20MHz-64QAM-39750-100RB#0



Band41-20MHz-64QAM-40620-100RB#0

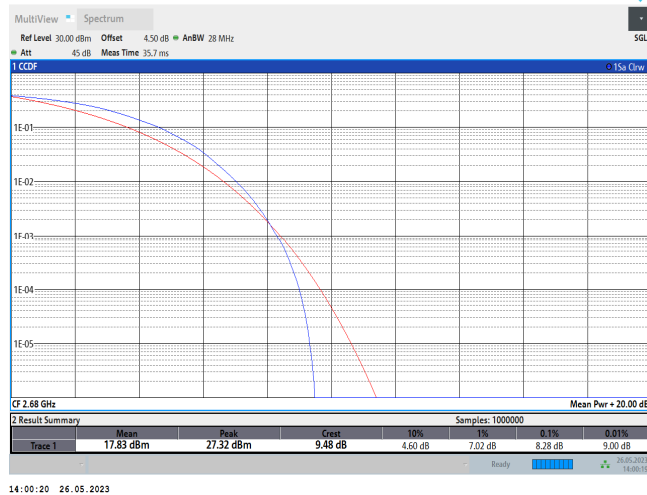


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Band41-20MHz-64QAM-41490-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS



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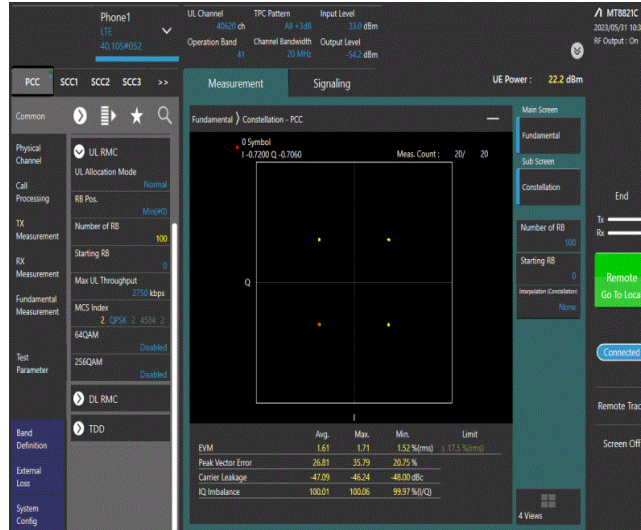
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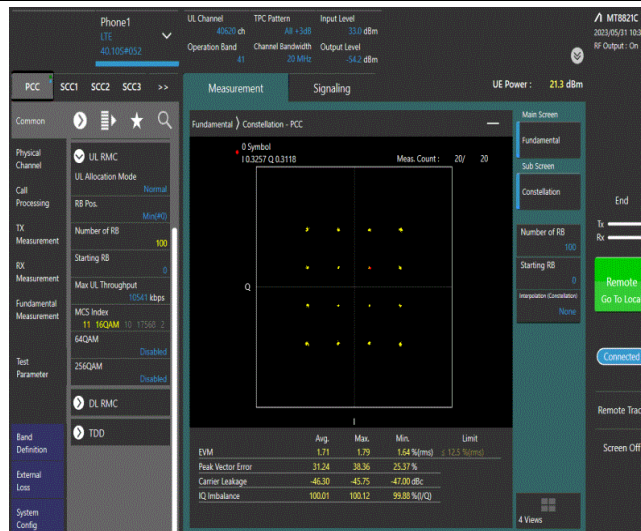
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Test Graphs

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



Band41-20MHz-16QAM-40620-100RB#0



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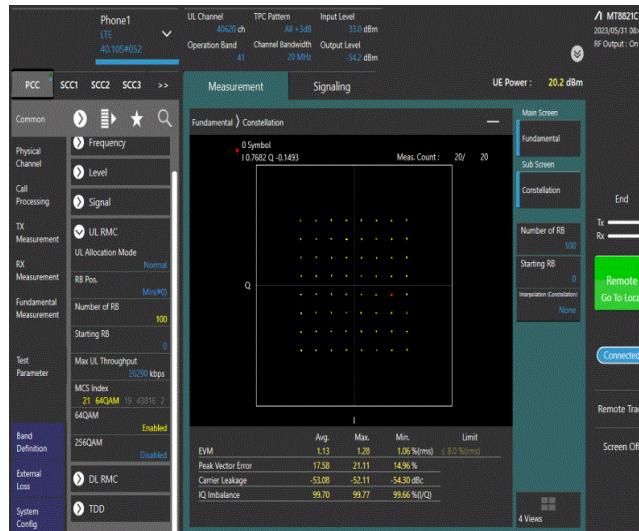
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Band41-20MHz-64QAM-40620-100RB#0



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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	4.473	5.04	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.479	5.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.477	5.02	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.475	5.19	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.476	5.06	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.485	5.39	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.476	5.05	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.476	5.05	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.479	5.07	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.952	9.94	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.950	9.96	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.954	10.10	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.936	9.84	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.956	10.08	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.940	10.22	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.940	9.80	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.948	9.96	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.949	10.04	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.495	16.59	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.499	15.93	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.516	16.14	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.474	15.21	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.488	15.81	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.497	16.11	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.499	15.36	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.502	16.92	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.496	16.20	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.936	20.28	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.943	20.36	PASS



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Band41	20MHz	QPSK	41490	100RB#0	17.918	20.20	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.939	19.92	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.935	20.56	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.941	21.32	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.924	19.68	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.980	20.92	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.915	20.48	PASS



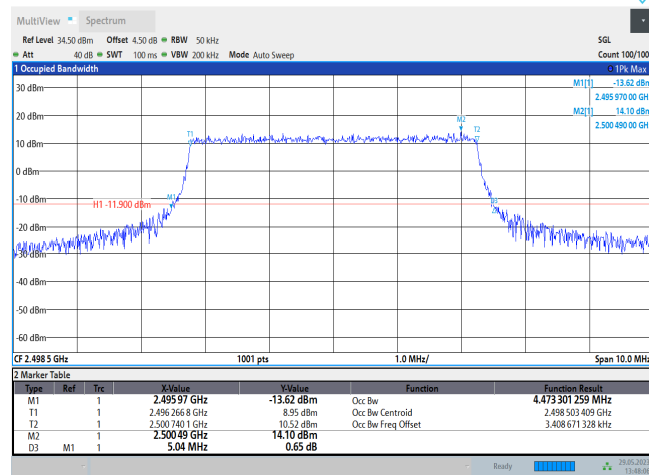
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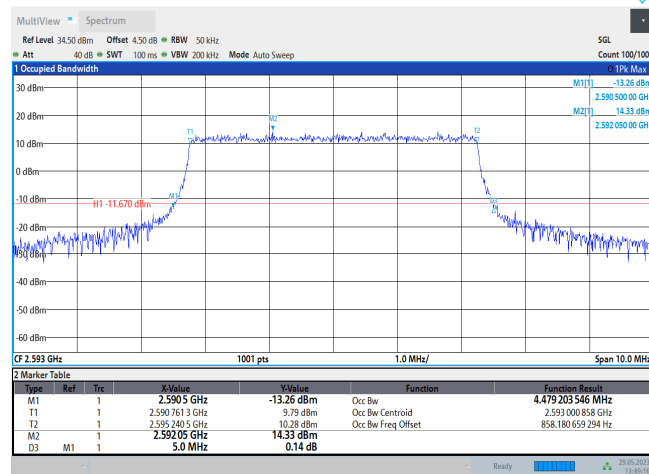
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Test Graphs

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



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

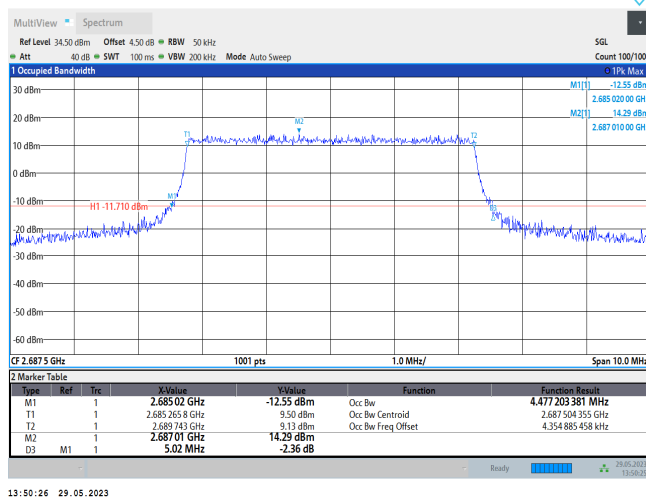


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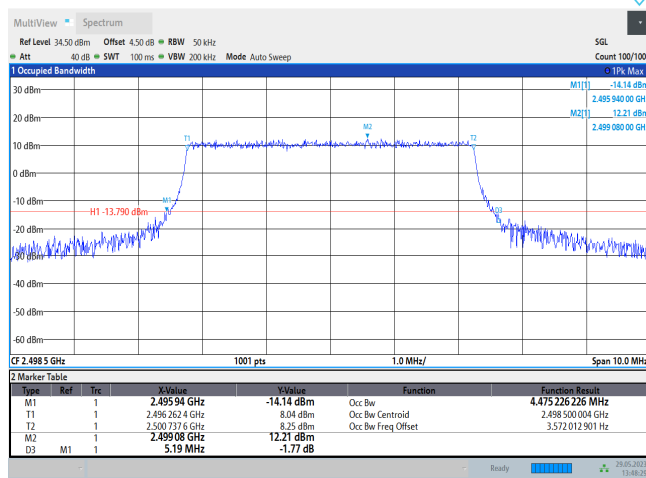
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Band41-5MHz-QPSK-41565-25RB#0



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Band41-5MHz-16QAM-39675-25RB#0



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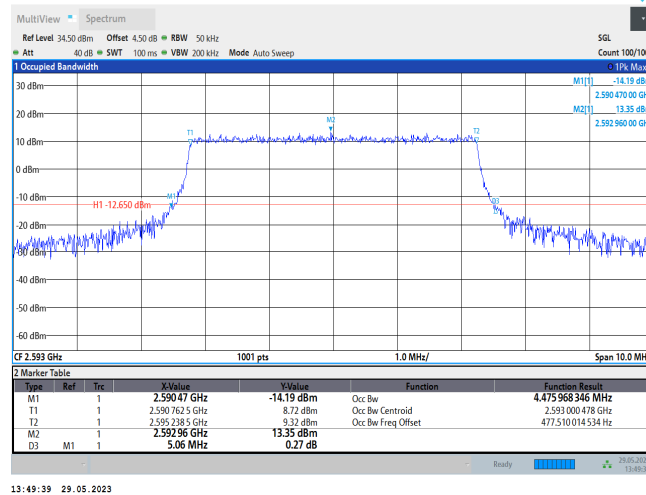
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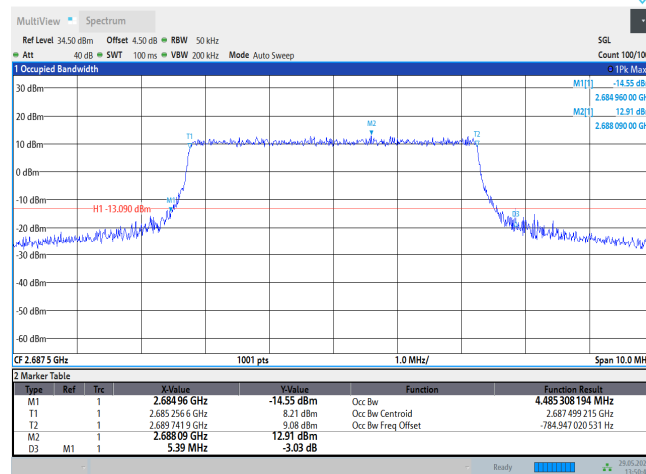
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Band41-5MHz-16QAM-40620-25RB#0



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



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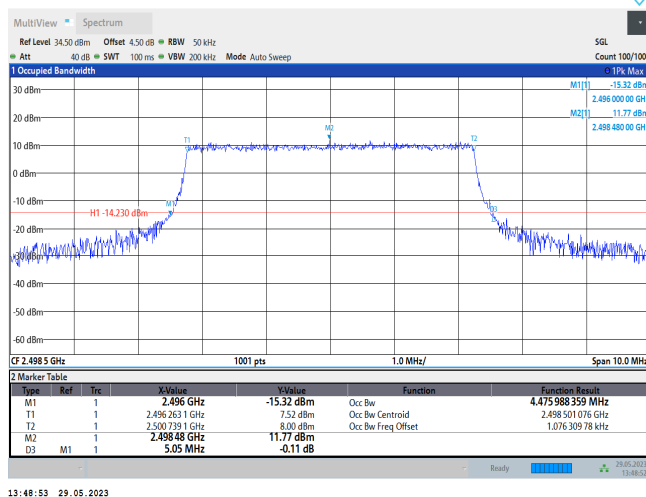
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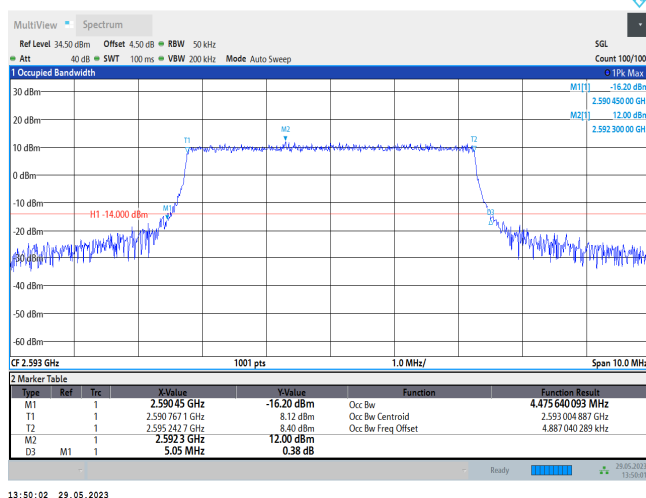
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Band41-5MHz-64QAM-39675-25RB#0



Band41-5MHz-64QAM-40620-25RB#0

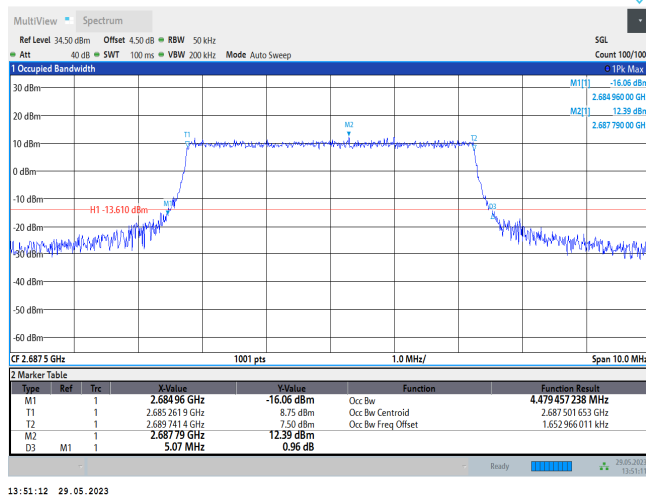


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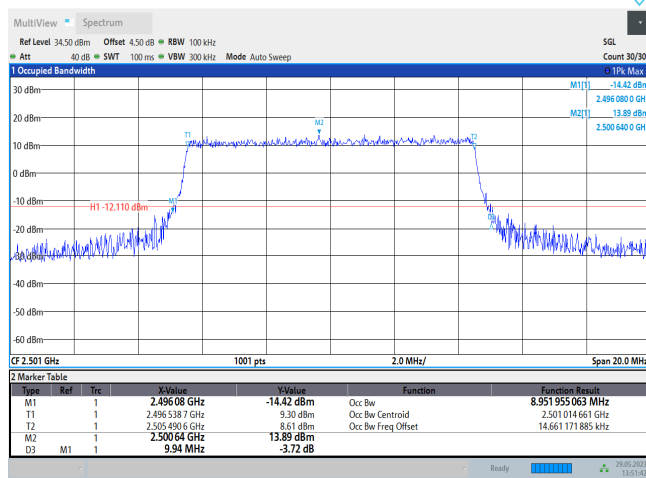
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Band41-5MHz-64QAM-41565-25RB#0



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



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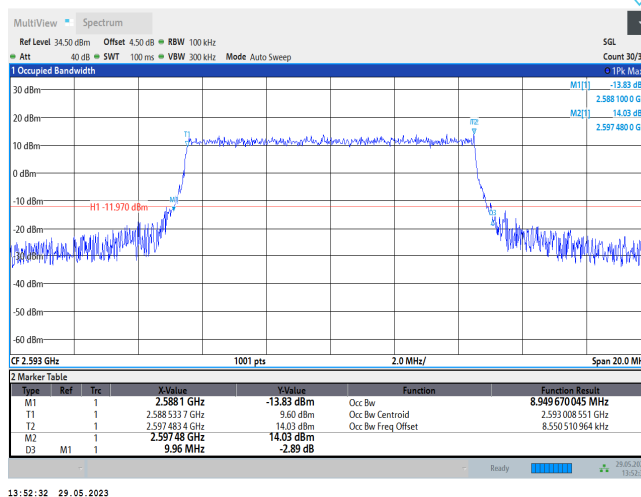
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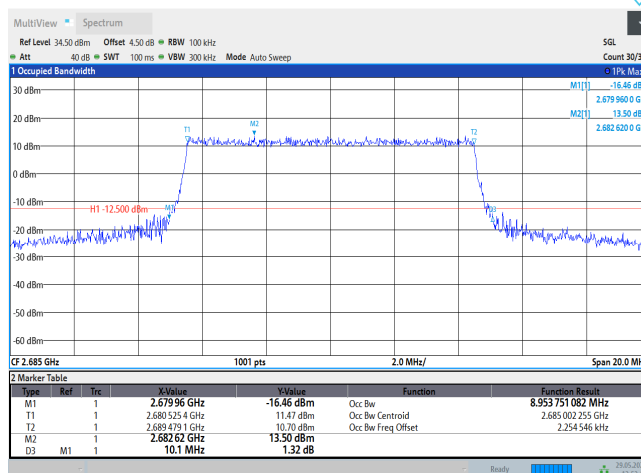
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Band41-10MHz-QPSK-41540-50RB#0



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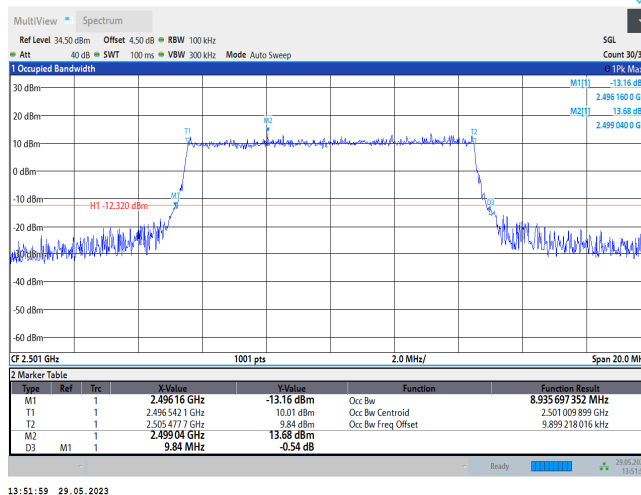
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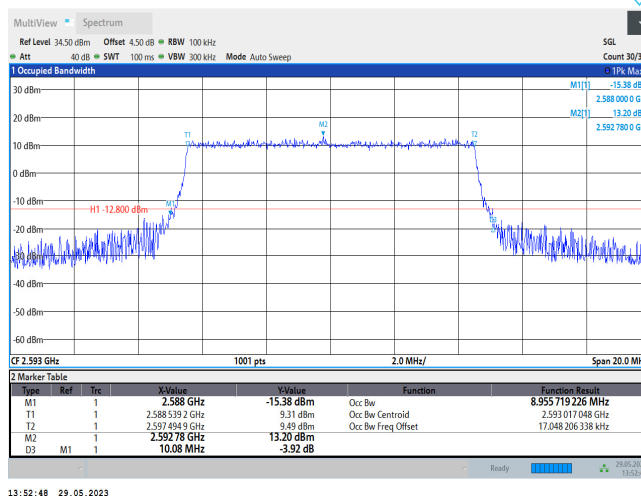
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Band41-10MHz-16QAM-39700-50RB#0



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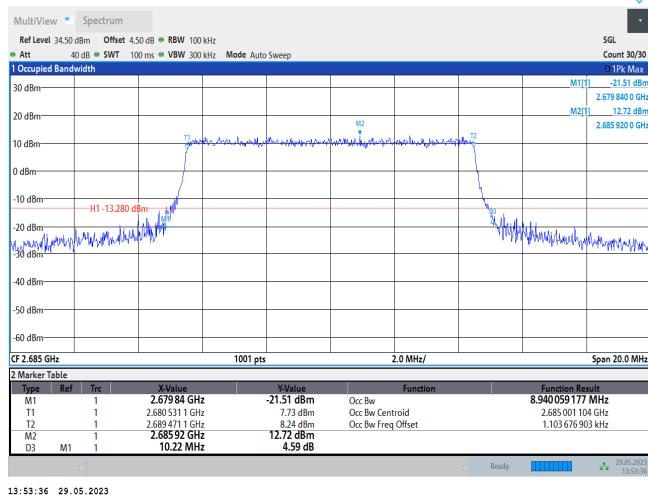
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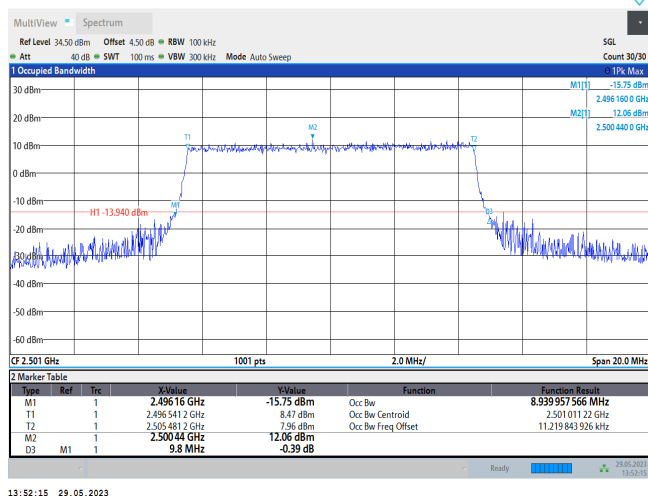
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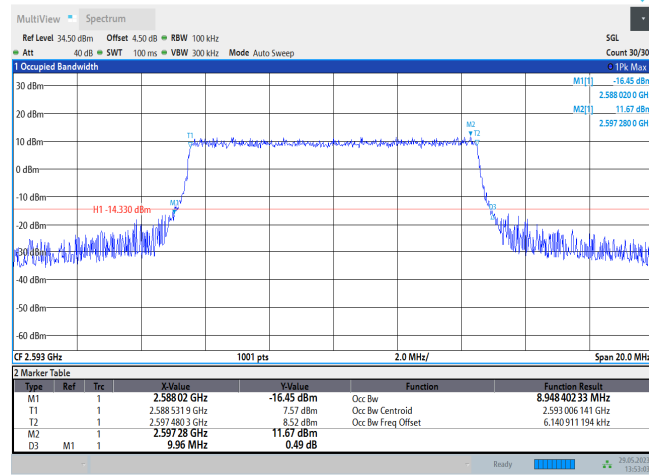


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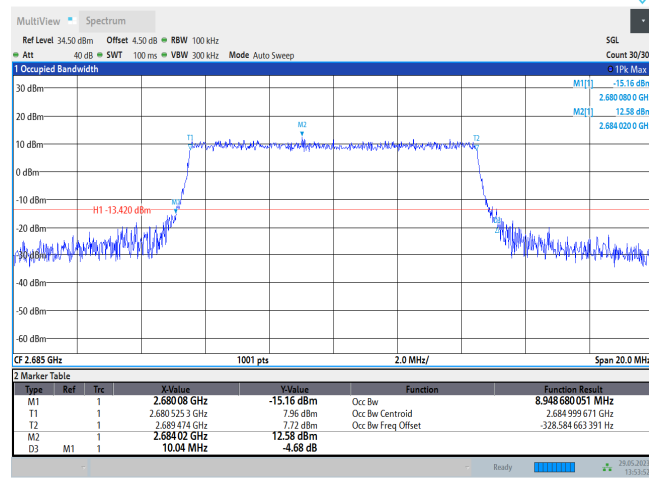
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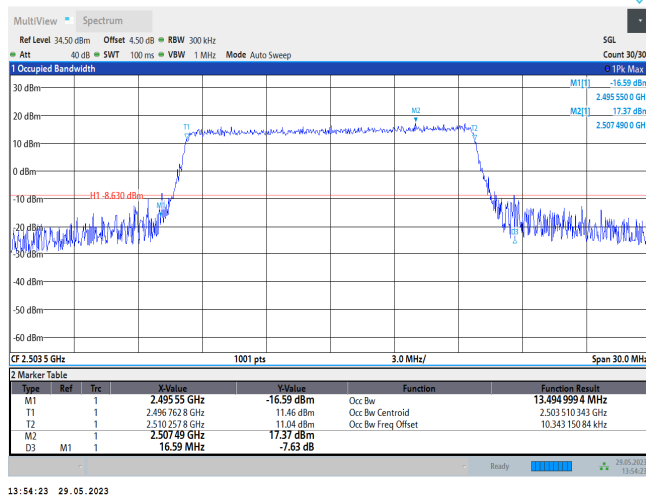


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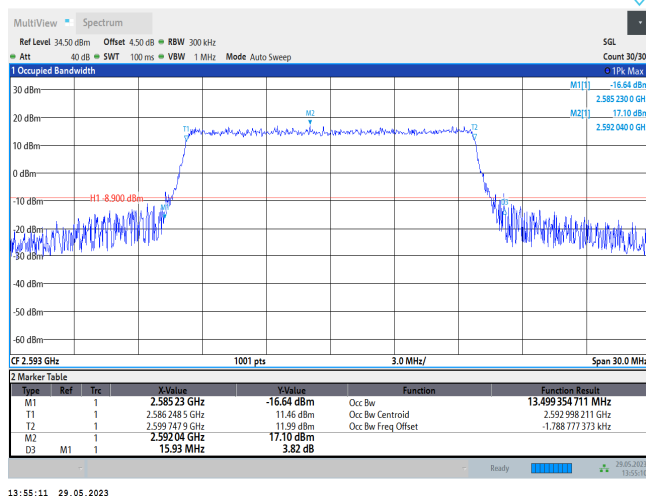
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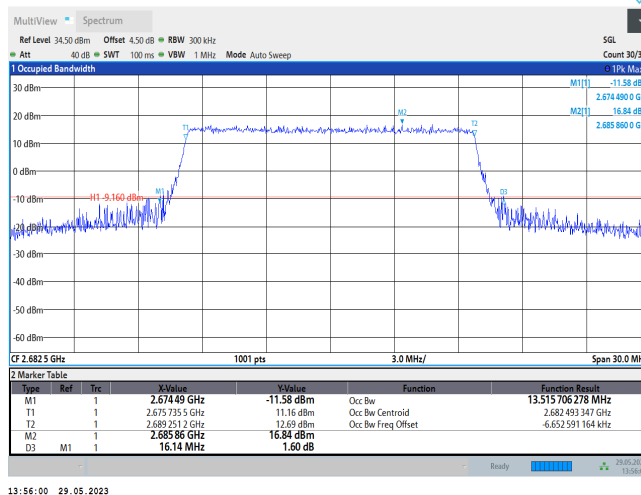
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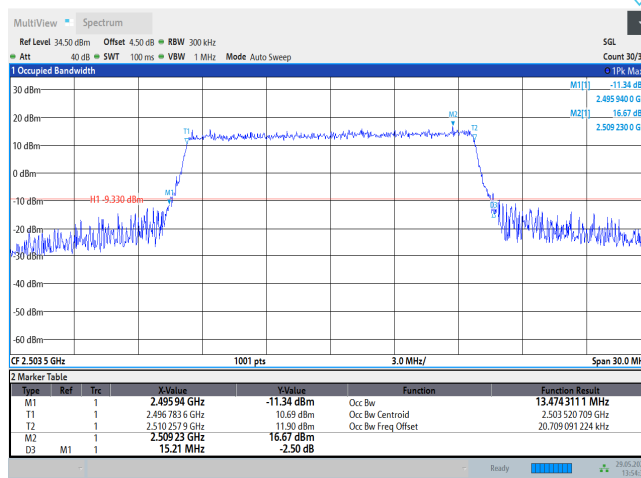
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Band41-15MHz-16QAM-39725-75RB#0



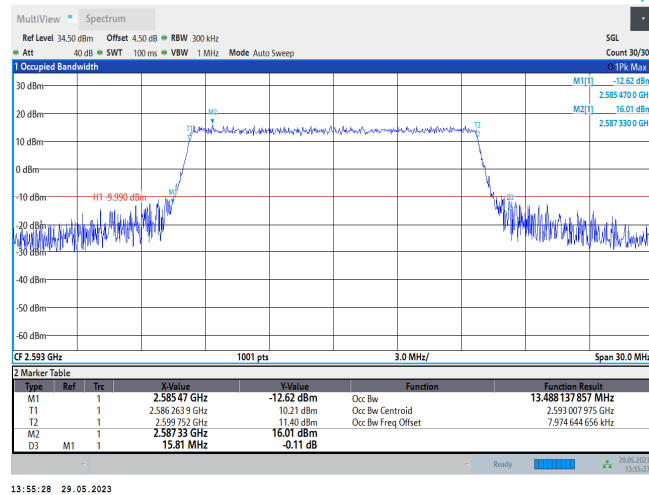
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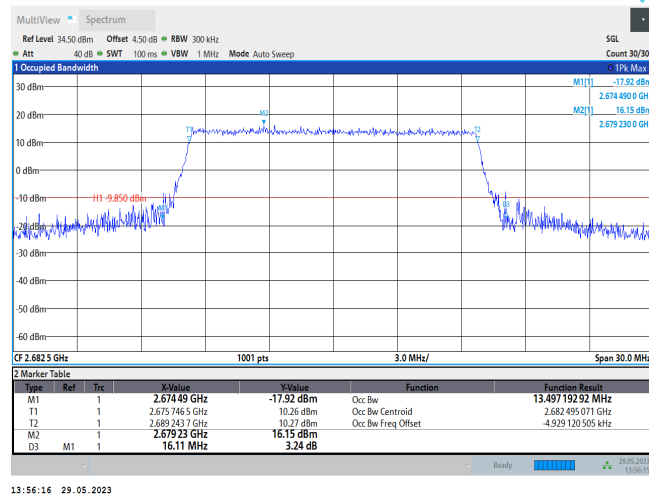
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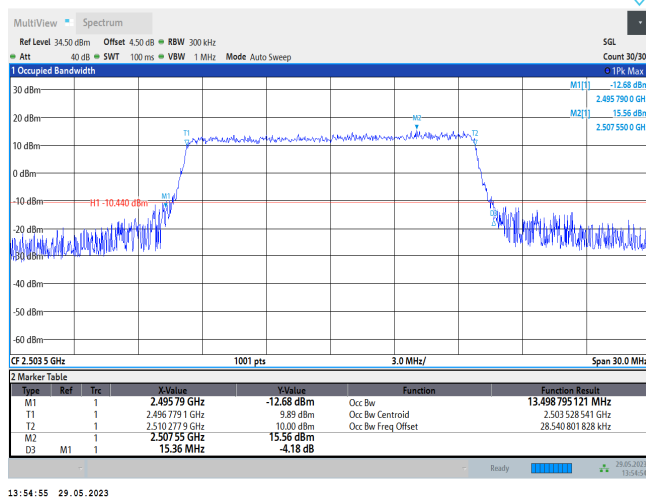


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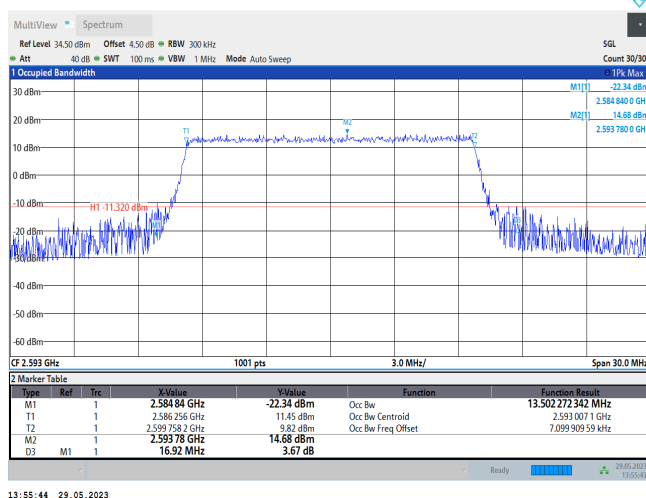
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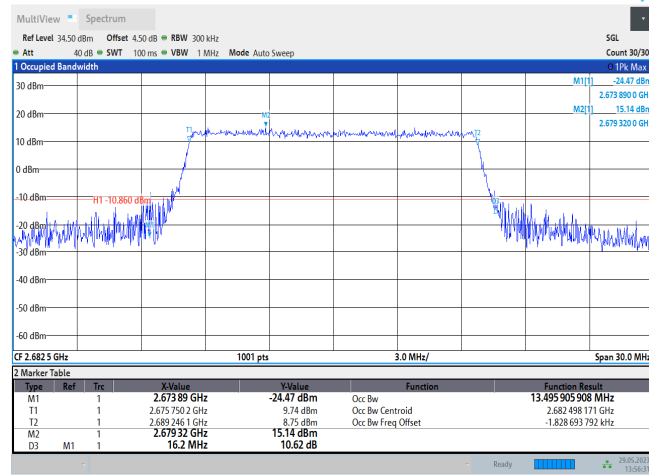


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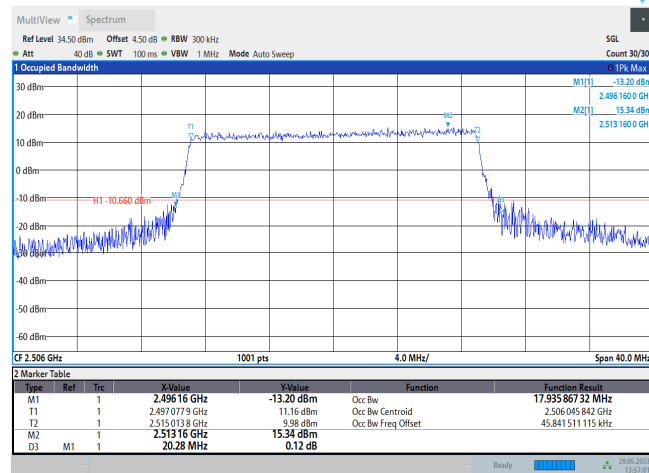
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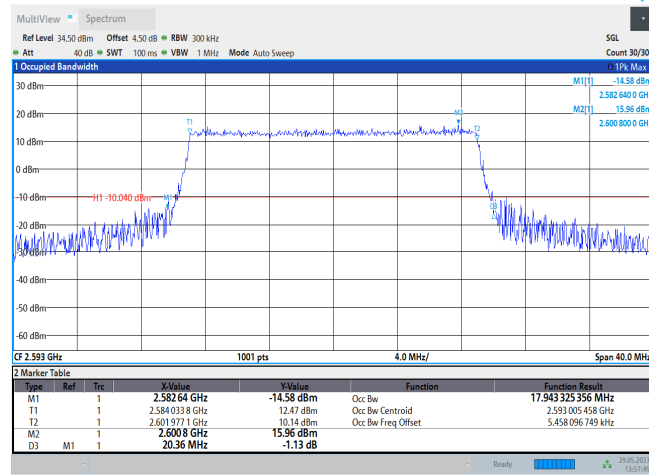
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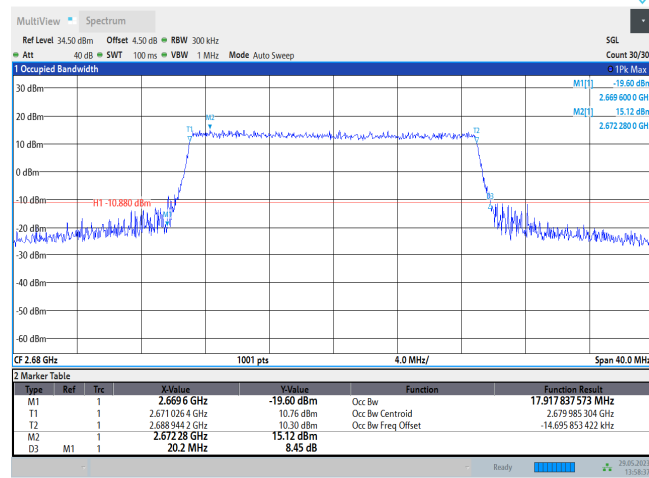
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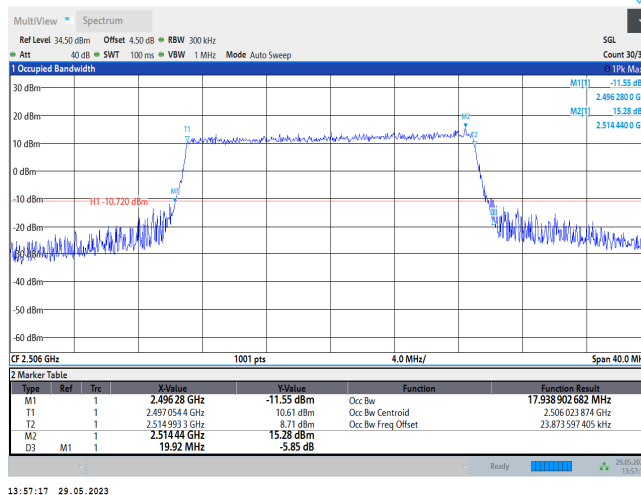


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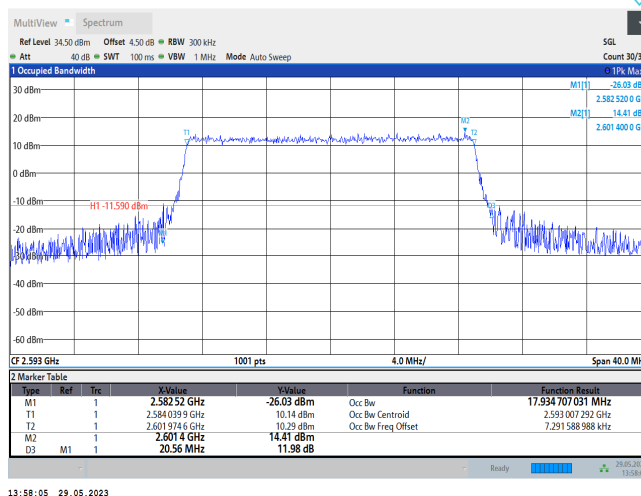
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Band41-20MHz-16QAM-40620-100RB#0



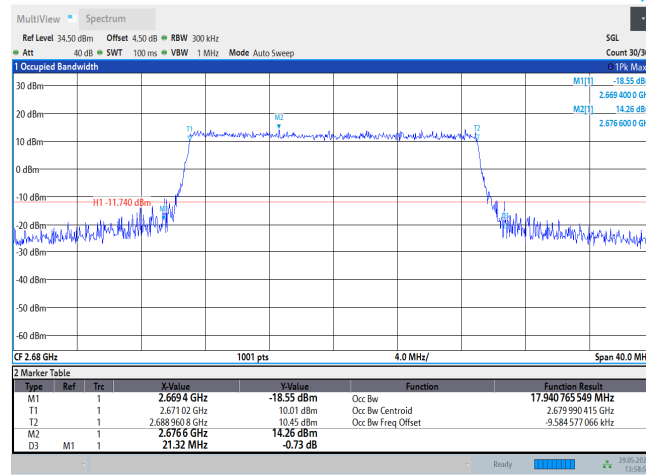
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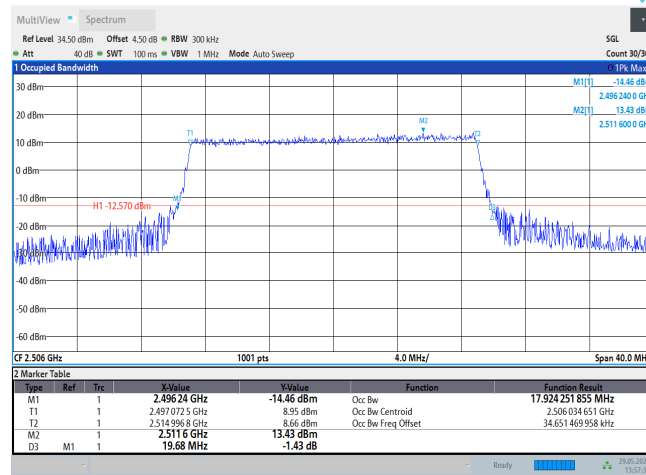
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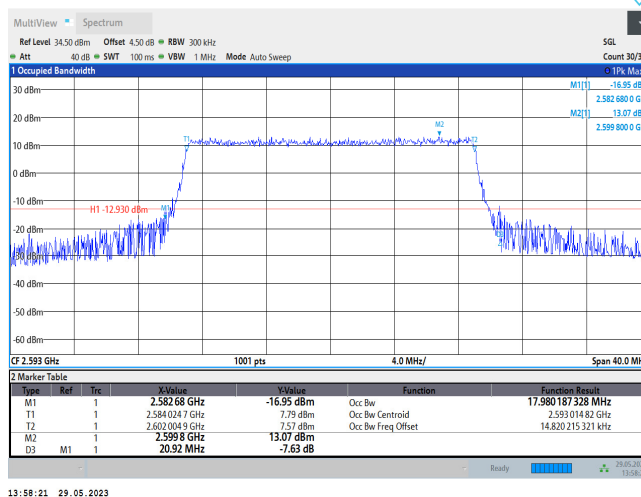


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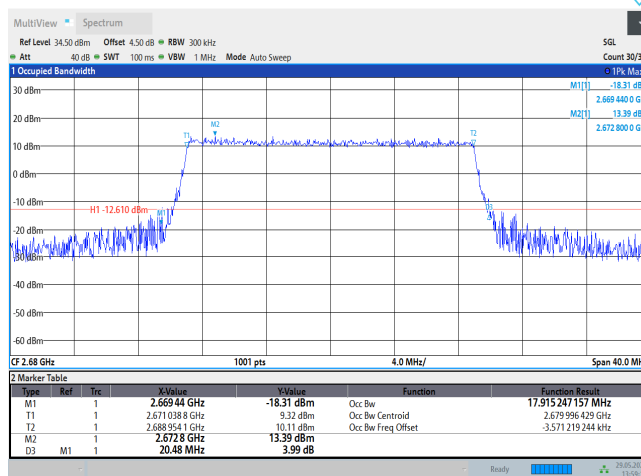
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Band41-20MHz-64QAM-41490-100RB#0



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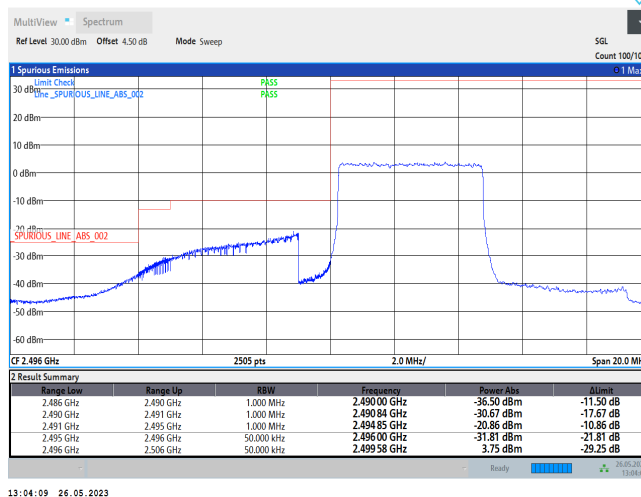
Band Edge

Test Graphs

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



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



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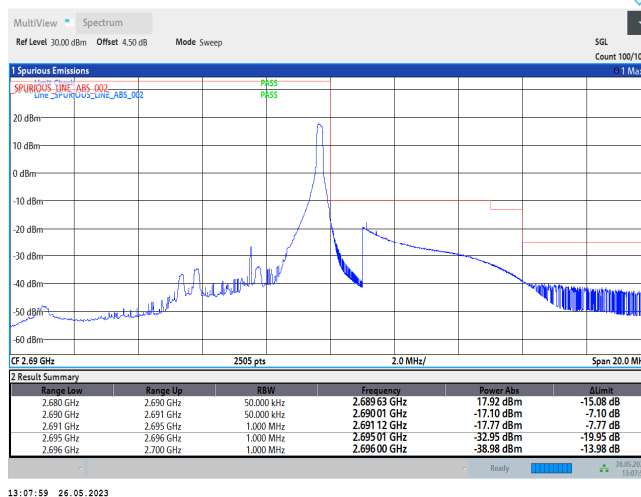
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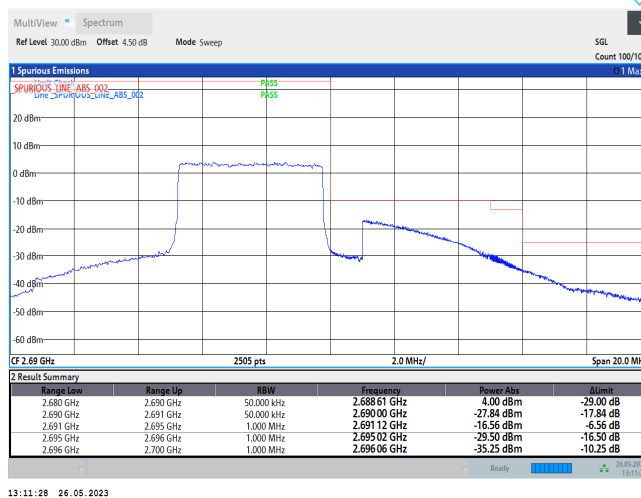
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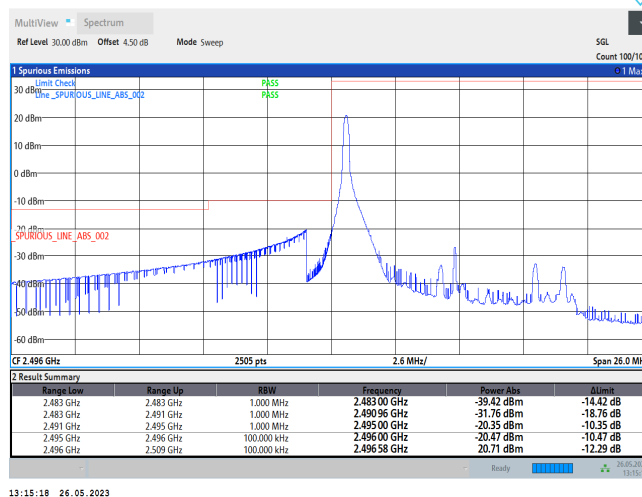
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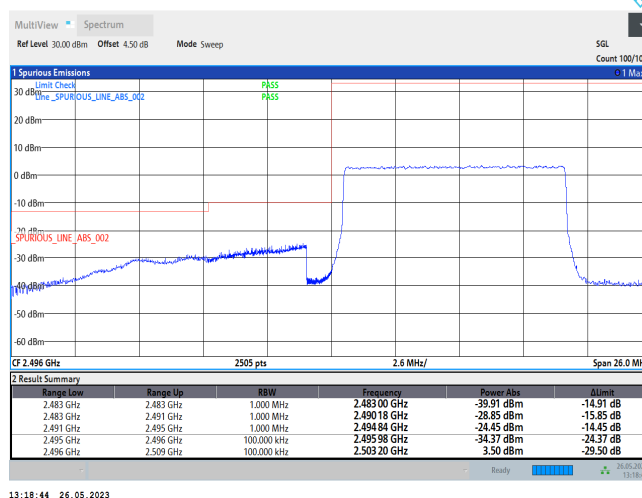
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Band41-10MHz-QPSK-39700-1RB#0



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



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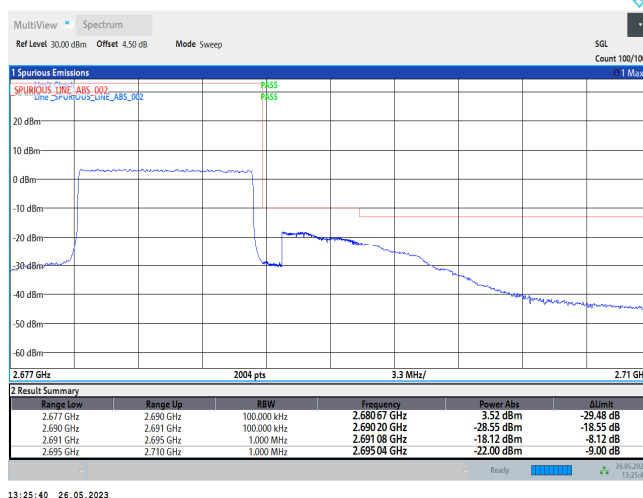
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Band41-10MHz-QPSK-41540-1RB#49



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



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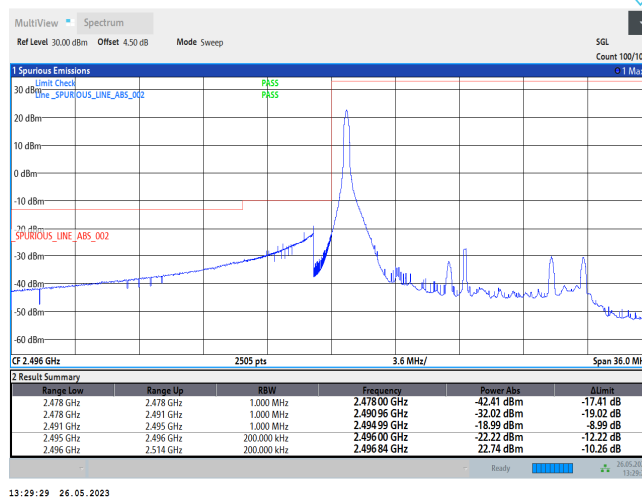
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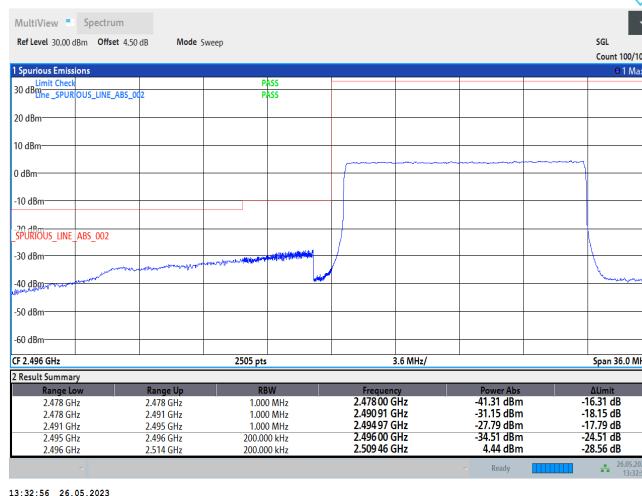
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Band41-15MHz-QPSK-39725-1RB#0



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

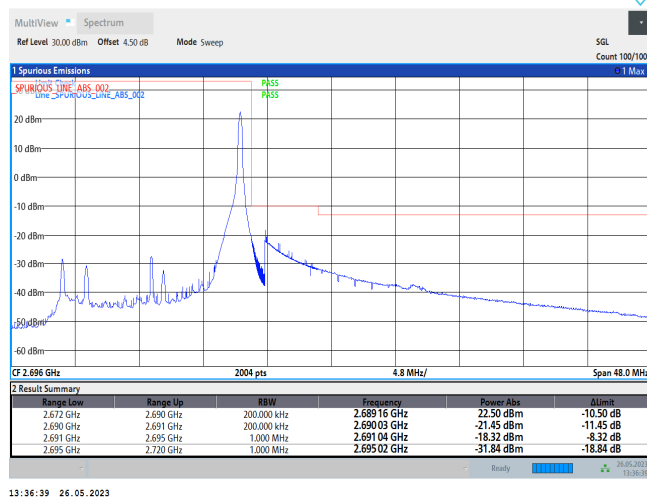


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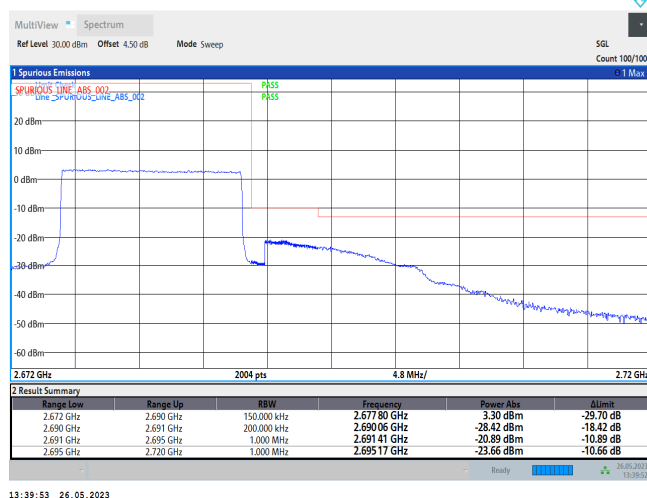
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Band41-15MHz-QPSK-41515-75RB#0

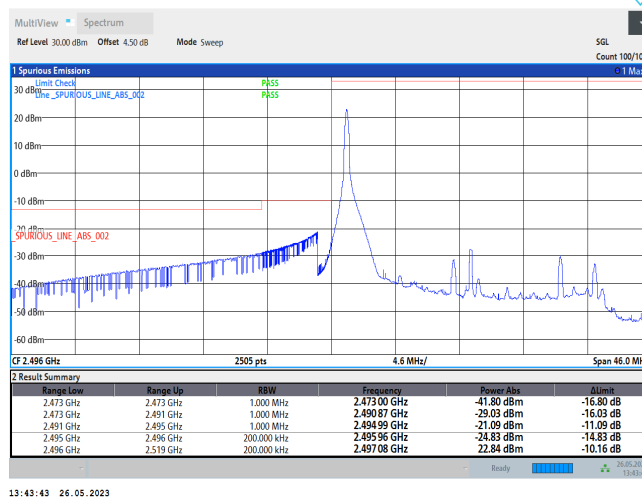


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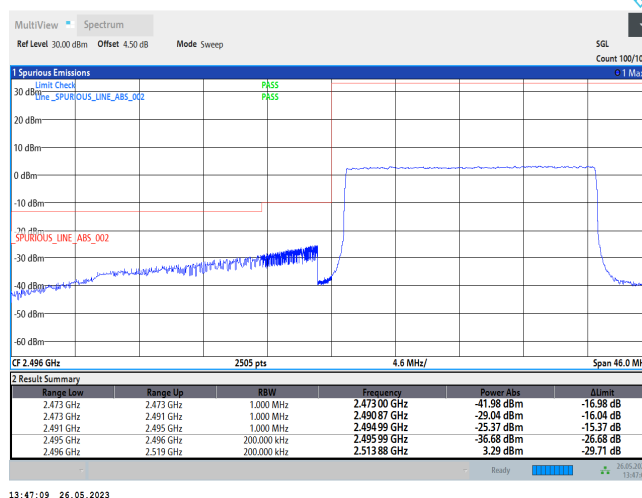
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Band41-20MHz-QPSK-39750-1RB#0



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



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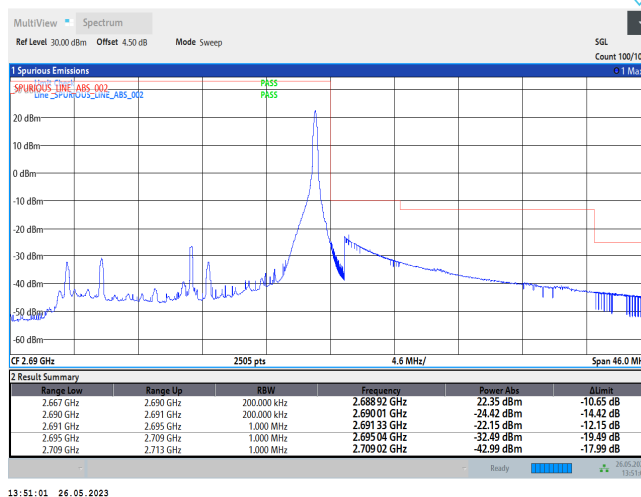
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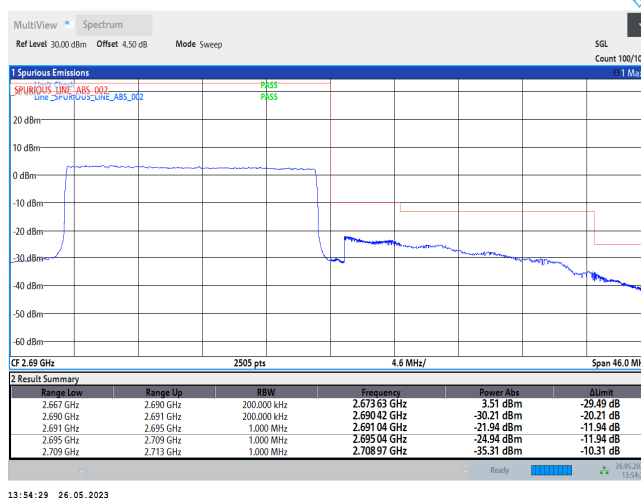
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Band41-20MHz-QPSK-41490-1RB#99



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



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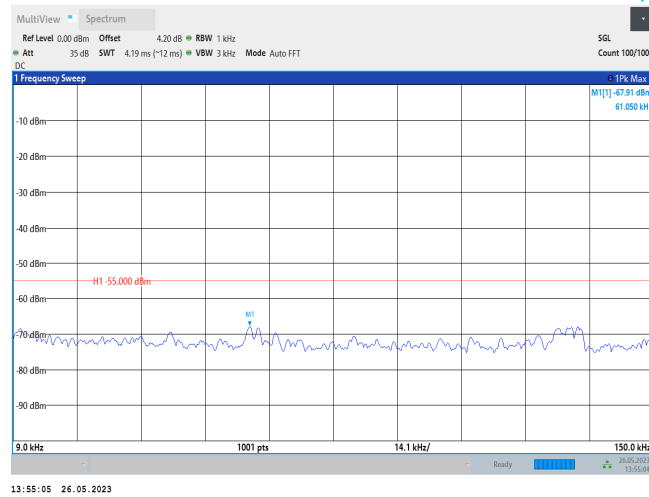
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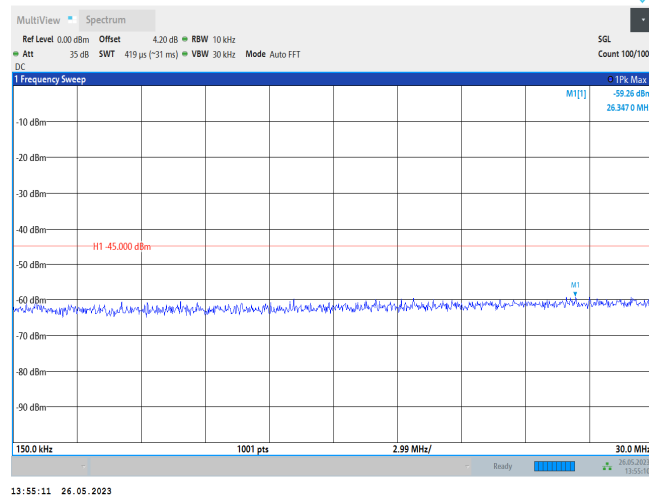
Conducted Spurious Emission

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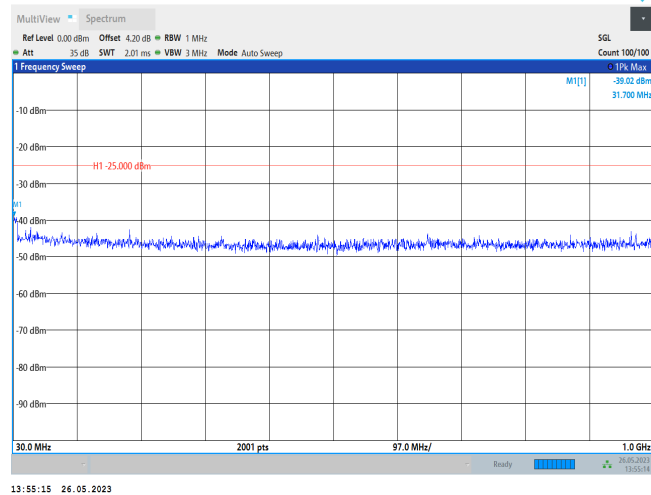
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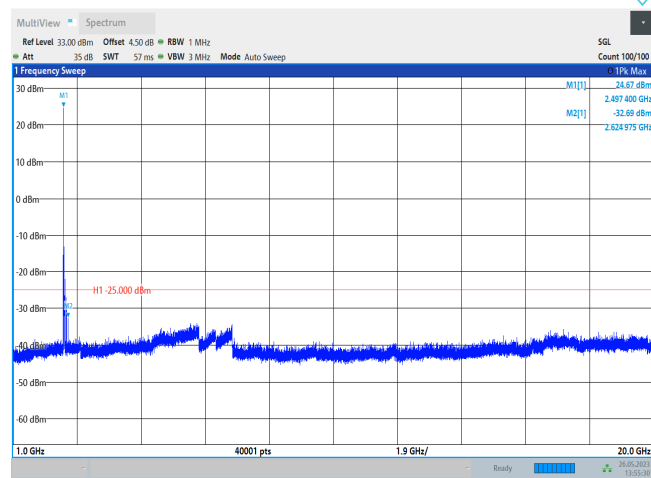
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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



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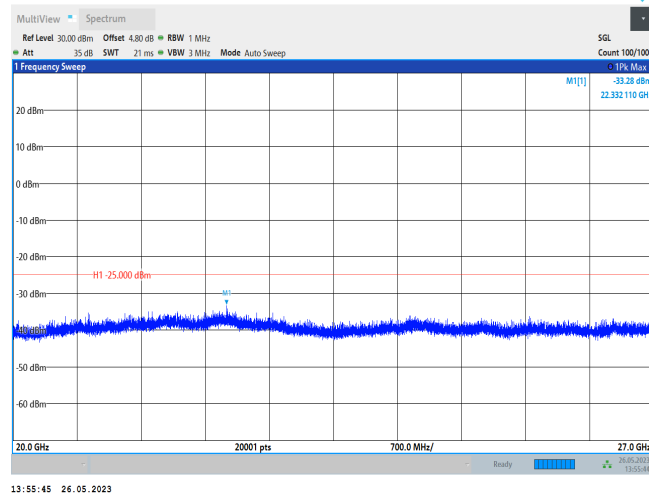
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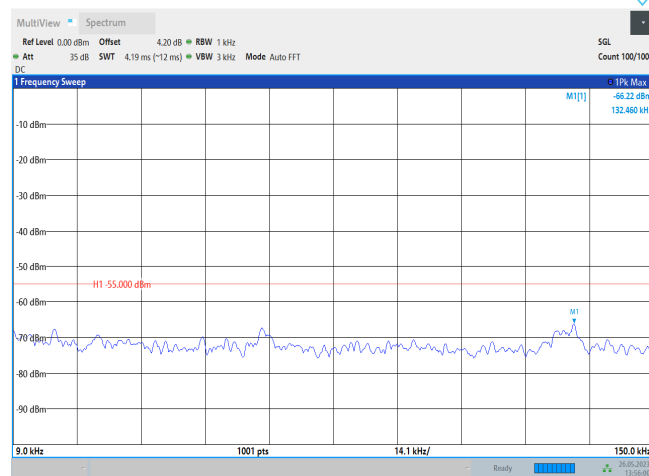
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



13:55:45 26.05.2023

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



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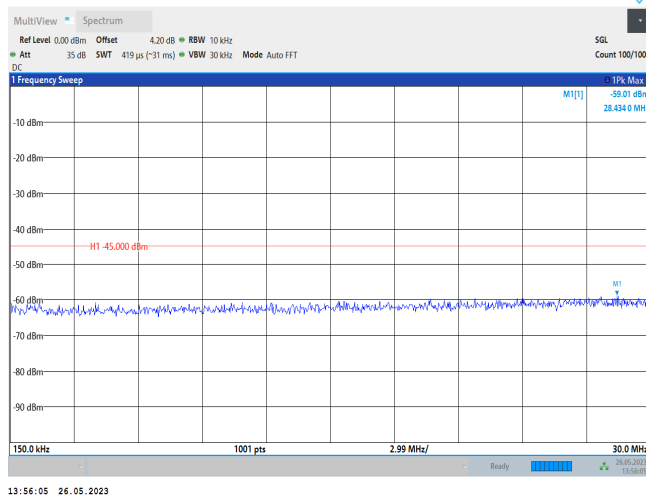
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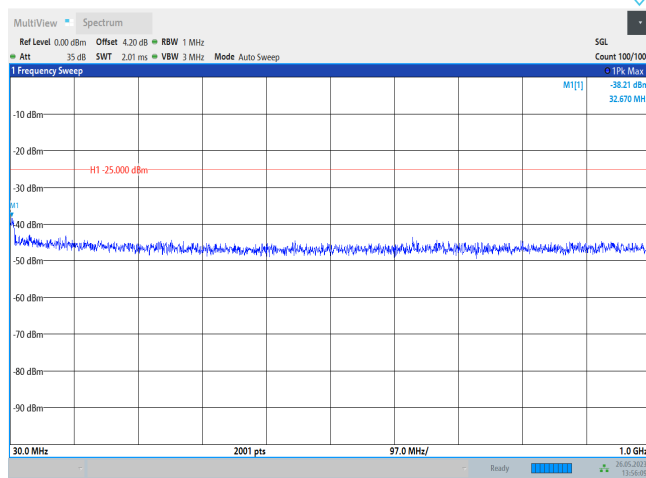
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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



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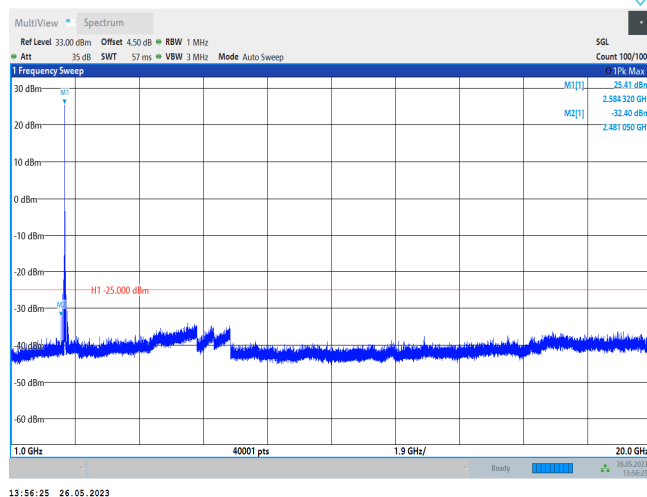
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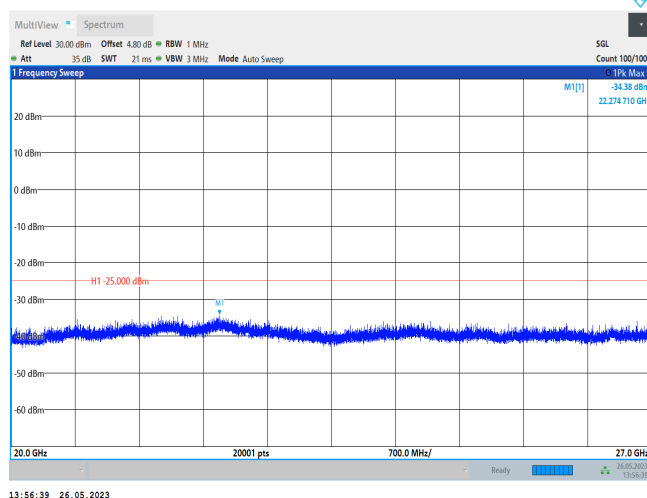
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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



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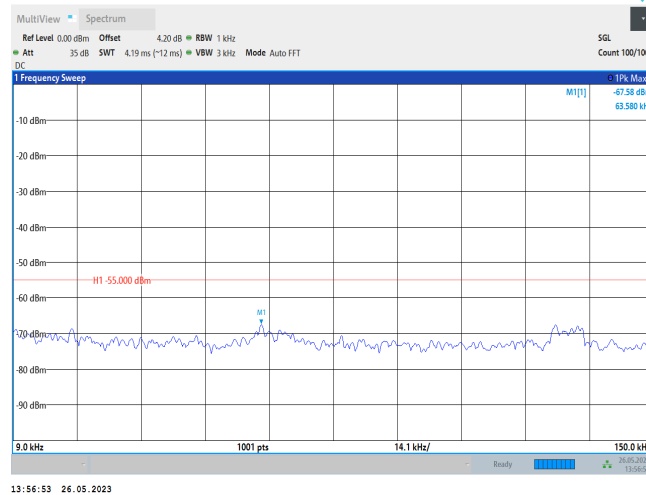
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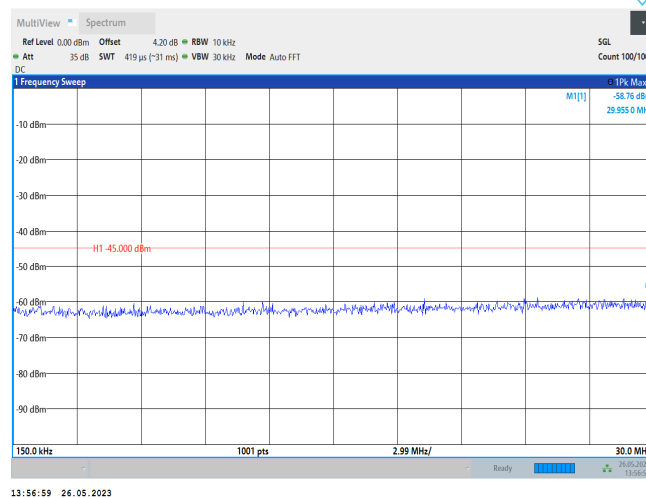
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



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



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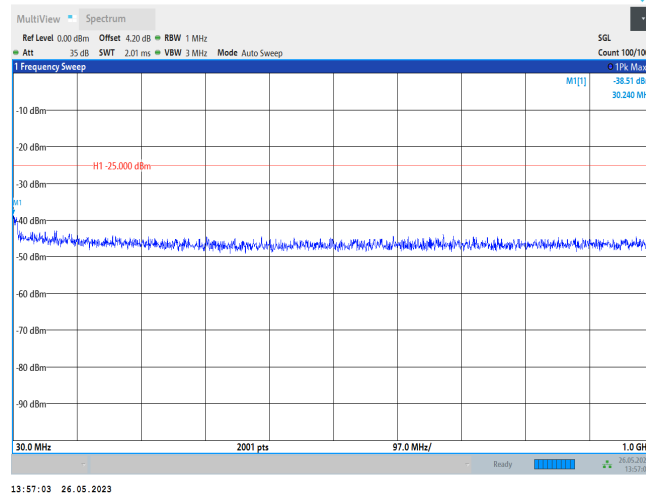
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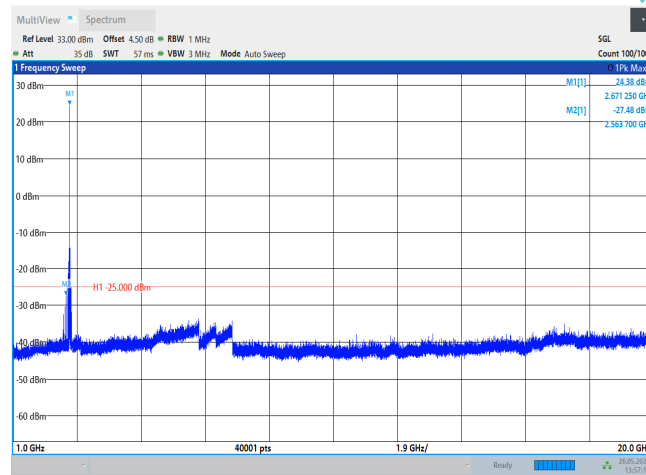
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



13:57:03 26.05.2023

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



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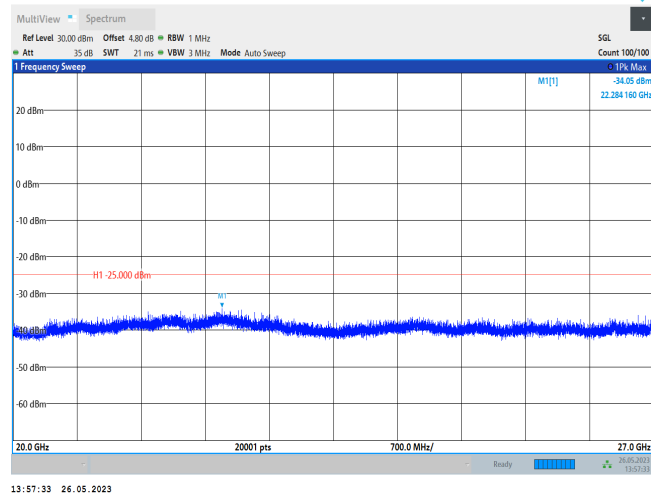
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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 41_ TM1_ Ant13

Test Channel = Low Channel_20MHz

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	41.02	-44.94	32.59	-66.59	-25.00	41.59	175	10	Horizontal
2	7491.27	38.93	-41.63	36.49	-61.47	-25.00	36.47	261	89	Horizontal
3	9988.36	33.65	-37.16	38.50	-60.27	-25.00	35.27	213	0	Horizontal
4	12485.45	31.92	-35.26	39.09	-59.51	-25.00	34.51	236	89	Horizontal
5	14982.54	31.28	-33.99	39.22	-58.75	-25.00	33.75	240	340	Horizontal
6	17479.63	30.04	-31.91	40.52	-56.61	-25.00	31.61	157	45	Horizontal

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	40.83	-44.94	32.59	-66.78	-25.00	41.78	219	90	Vertical
2	7491.27	40.12	-41.63	36.49	-60.28	-25.00	35.28	203	237	Vertical
3	9988.36	34.34	-37.16	38.50	-59.58	-25.00	34.58	148	69	Vertical
4	12485.45	31.54	-35.26	39.09	-59.89	-25.00	34.89	175	133	Vertical
5	14982.54	31.22	-33.99	39.22	-58.81	-25.00	33.81	266	4	Vertical
6	17479.63	29.64	-31.91	40.52	-57.01	-25.00	32.01	103	0	Vertical

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Test Band = LTE Band 41_ TM1_ Ant13**Test Channel = Mid Channel_20MHz**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3919.5	43.82	-45.47	30.41	-66.51	-25.00	41.51	184	240	Horizontal
2	5168.18	47.03	-44.19	32.60	-59.82	-25.00	34.82	293	5	Horizontal
3	7752.27	42.97	-40.96	37.01	-56.24	-25.00	31.24	127	96	Horizontal
4	10336.36	34.74	-36.70	38.87	-58.35	-25.00	33.35	155	322	Horizontal
5	12920.45	31.87	-34.87	39.52	-58.74	-25.00	33.74	143	33	Horizontal
6	15504.54	32.12	-34.16	38.54	-58.75	-25.00	33.75	218	158	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4183	43.15	-45.02	30.89	-66.23	-25.00	41.23	121	12	Vertical
2	5168.18	41.69	-44.19	32.60	-65.16	-25.00	40.16	287	357	Vertical
3	7752.27	41.62	-40.96	37.01	-57.59	-25.00	32.59	146	130	Vertical
4	10336.36	34.05	-36.70	38.87	-59.04	-25.00	34.04	209	320	Vertical
5	12920.45	32.13	-34.87	39.52	-58.48	-25.00	33.48	305	320	Vertical
6	15504.54	31.88	-34.16	38.54	-58.99	-25.00	33.99	145	49	Vertical



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Test Band = LTE Band 41_ TM1_ Ant13**Test Channel = High Channel_20MHz**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4023	43.75	-45.35	30.64	-66.22	-25.00	41.22	214	320	Horizontal
2	5342	44.99	-44.09	32.60	-61.76	-25.00	36.76	185	39	Horizontal
3	8013.5	41.44	-40.39	37.51	-56.70	-25.00	31.70	163	39	Horizontal
4	10510.36	32.82	-36.37	39.06	-59.74	-25.00	34.74	239	1	Horizontal
5	13137.95	31.40	-34.60	39.68	-58.77	-25.00	33.77	172	236	Horizontal
6	15765.54	31.60	-34.12	38.20	-59.58	-25.00	34.58	149	1	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4070.5	43.02	-45.13	30.71	-66.66	-25.00	41.66	248	4	Vertical
2	5342	44.16	-44.09	32.60	-62.59	-25.00	37.59	198	90	Vertical
3	8013.5	43.80	-40.39	37.51	-54.34	-25.00	29.34	206	237	Vertical
4	10510.36	32.58	-36.37	39.06	-59.98	-25.00	34.98	135	259	Vertical
5	13137.95	31.60	-34.60	39.68	-58.57	-25.00	33.57	274	357	Vertical
6	15765.54	32.09	-34.12	38.20	-59.09	-25.00	34.09	154	216	Vertical



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Test Band = LTE Band 41_ TM1_ Ant31

Test Channel = Low Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994	51.03	-44.94	32.59	-56.58	-25.00	31.58	295	57	Horizontal
2	7491.27	51.03	-41.63	36.49	-49.37	-25.00	24.37	241	261	Horizontal
3	9988.36	33.79	-37.16	38.50	-60.13	-25.00	35.13	255	179	Horizontal
4	12485.45	33.27	-35.26	39.09	-58.16	-25.00	33.16	162	160	Horizontal
5	14982.54	31.68	-33.99	39.22	-58.35	-25.00	33.35	209	141	Horizontal
6	17479.63	30.57	-31.91	40.52	-56.08	-25.00	31.08	314	341	Horizontal

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	46.14	-44.94	32.59	-61.47	-25.00	36.47	211	1	Vertical
2	7491.27	50.57	-41.63	36.49	-49.83	-25.00	24.83	148	298	Vertical
3	9988.36	33.55	-37.16	38.50	-60.37	-25.00	35.37	267	94	Vertical
4	12485.45	32.77	-35.26	39.09	-58.66	-25.00	33.66	194	75	Vertical
5	14982.54	31.85	-33.99	39.22	-58.18	-25.00	33.18	213	298	Vertical
6	17479.63	30.05	-31.91	40.52	-56.60	-25.00	31.60	204	0	Vertical



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Test Band = LTE Band 41_ TM1_ Ant31

Test Channel = Mid Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4073.5	44.59	-45.12	30.72	-65.07	-25.00	40.07	271	233	Horizontal
2	5168	47.63	-44.19	32.60	-59.22	-25.00	34.22	129	0	Horizontal
3	7752	47.12	-40.96	37.00	-52.10	-25.00	27.10	238	130	Horizontal
4	10336.36	35.50	-36.70	38.87	-57.59	-25.00	32.59	224	111	Horizontal
5	12920.45	33.05	-34.87	39.52	-57.56	-25.00	32.56	186	192	Horizontal
6	15504.54	32.78	-34.16	38.54	-58.09	-25.00	33.09	206	69	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3953	44.48	-45.46	30.49	-65.76	-25.00	40.76	297	11	Vertical
2	5168.18	43.33	-44.19	32.60	-63.52	-25.00	38.52	184	358	Vertical
3	7752.27	44.31	-40.96	37.01	-54.90	-25.00	29.90	159	358	Vertical
4	10336.36	34.76	-36.70	38.87	-58.33	-25.00	33.33	236	300	Vertical
5	12920.45	33.56	-34.87	39.52	-57.05	-25.00	32.05	229	112	Vertical
6	15504.54	31.83	-34.16	38.54	-59.04	-25.00	34.04	207	358	Vertical



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Test Band = LTE Band 41_ TM1_ Ant31

Test Channel = High Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3946.5	44.46	-45.47	30.47	-65.79	-25.00	40.79	174	218	Horizontal
2	5342	44.82	-44.09	32.60	-61.93	-25.00	36.93	285	279	Horizontal
3	8013	43.15	-40.39	37.51	-54.99	-25.00	29.99	169	237	Horizontal
4	10510.36	32.55	-36.37	39.06	-60.01	-25.00	35.01	234	341	Horizontal
5	13137.95	31.66	-34.60	39.68	-58.51	-25.00	33.51	144	0	Horizontal
6	15765.54	31.44	-34.12	38.20	-59.74	-25.00	34.74	175	92	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4425	43.18	-44.87	31.28	-65.67	-25.00	40.67	201	133	Vertical
2	8013.5	42.53	-40.39	37.51	-55.61	-25.00	30.61	197	240	Vertical
3	5255.18	40.11	-44.07	32.60	-66.62	-25.00	41.62	178	52	Vertical
4	10510.36	32.26	-36.37	39.06	-60.30	-25.00	35.30	146	133	Vertical
5	13137.95	31.25	-34.60	39.68	-58.92	-25.00	33.92	228	240	Vertical
6	15765.54	31.57	-34.12	38.20	-59.61	-25.00	34.61	271	196	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	-3.70	-0.001427	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-1.30	-0.000501	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-1.00	-0.000386	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-2.90	-0.001118	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-3.00	-0.001157	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-2.20	-0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-2.90	-0.001118	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-3.20	-0.001234	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-3.30	-0.001273	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-1.90	-0.000733	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-2.00	-0.000771	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-2.40	-0.000697	PASS

---End of Attachment---



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